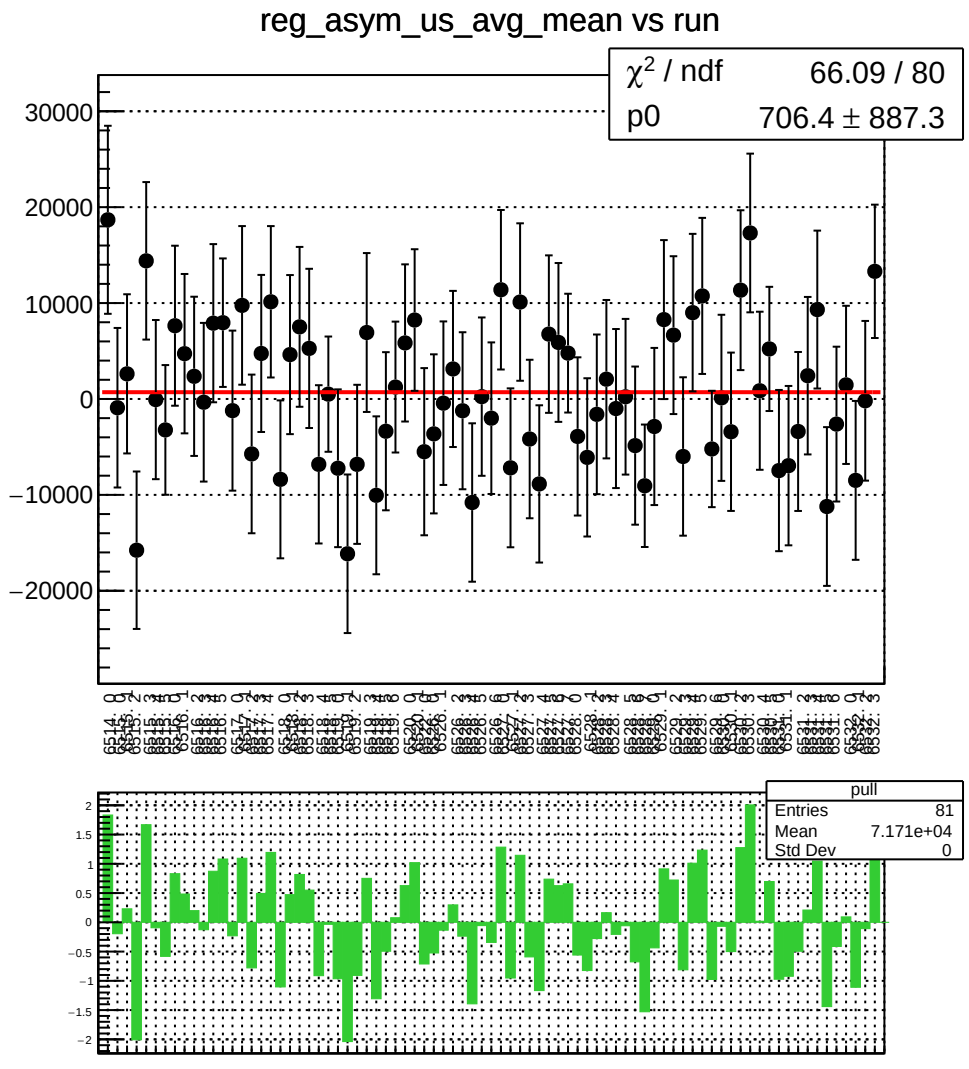
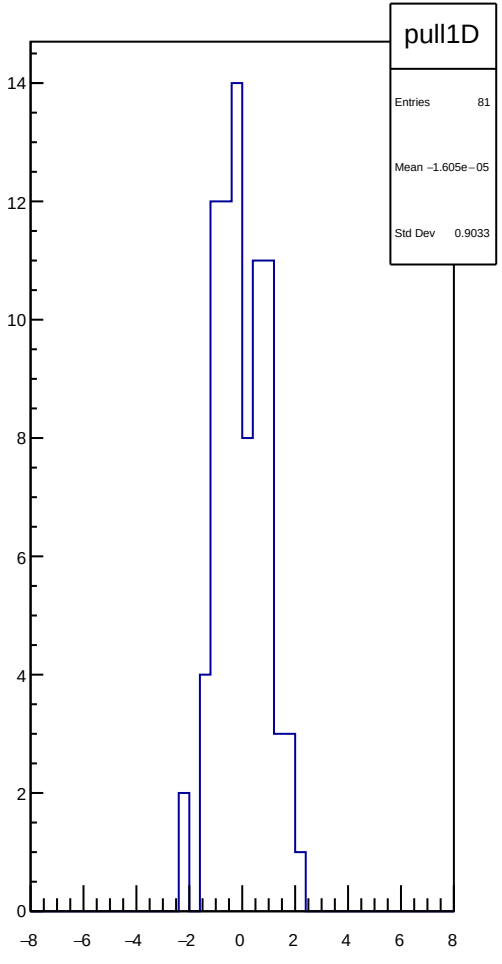
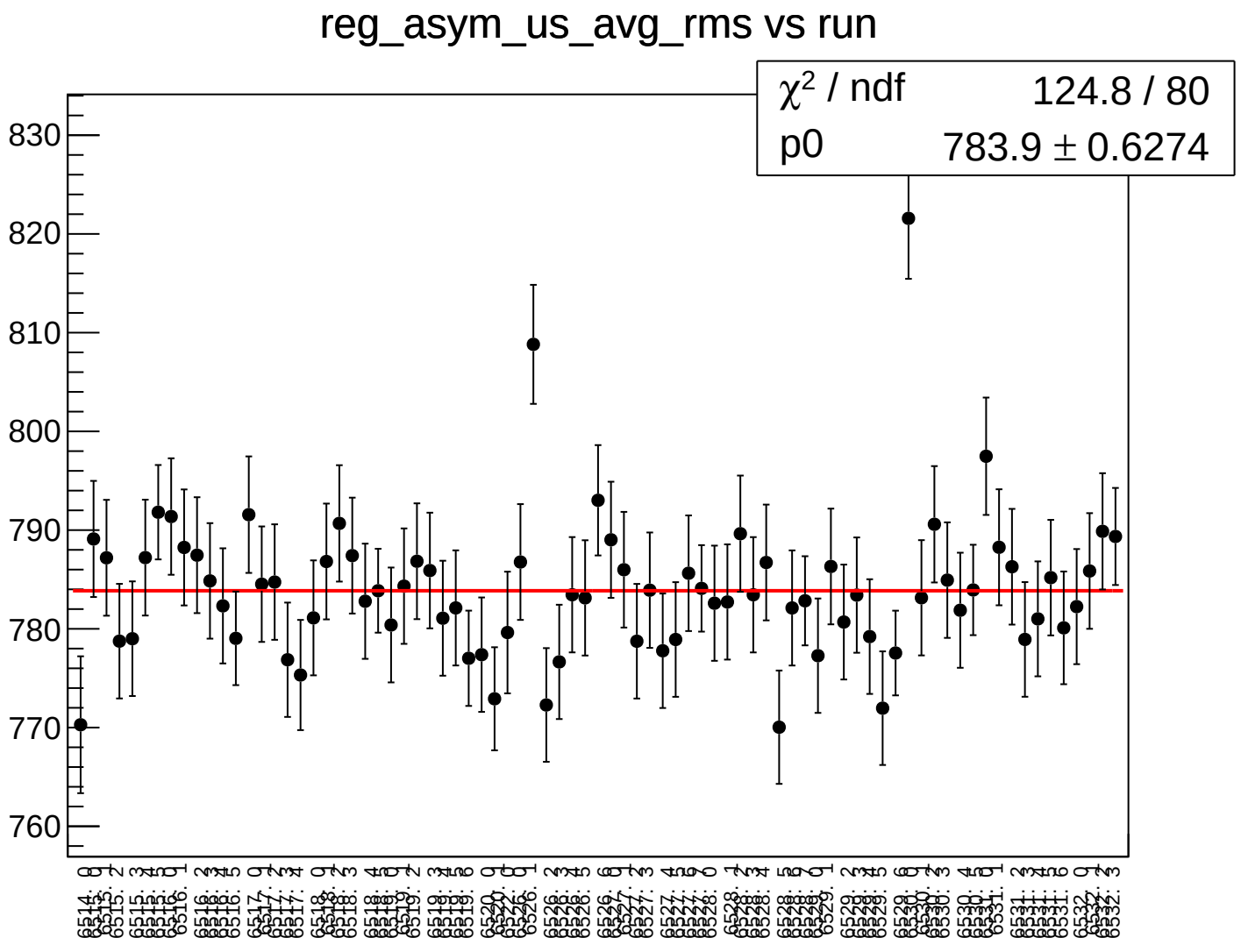
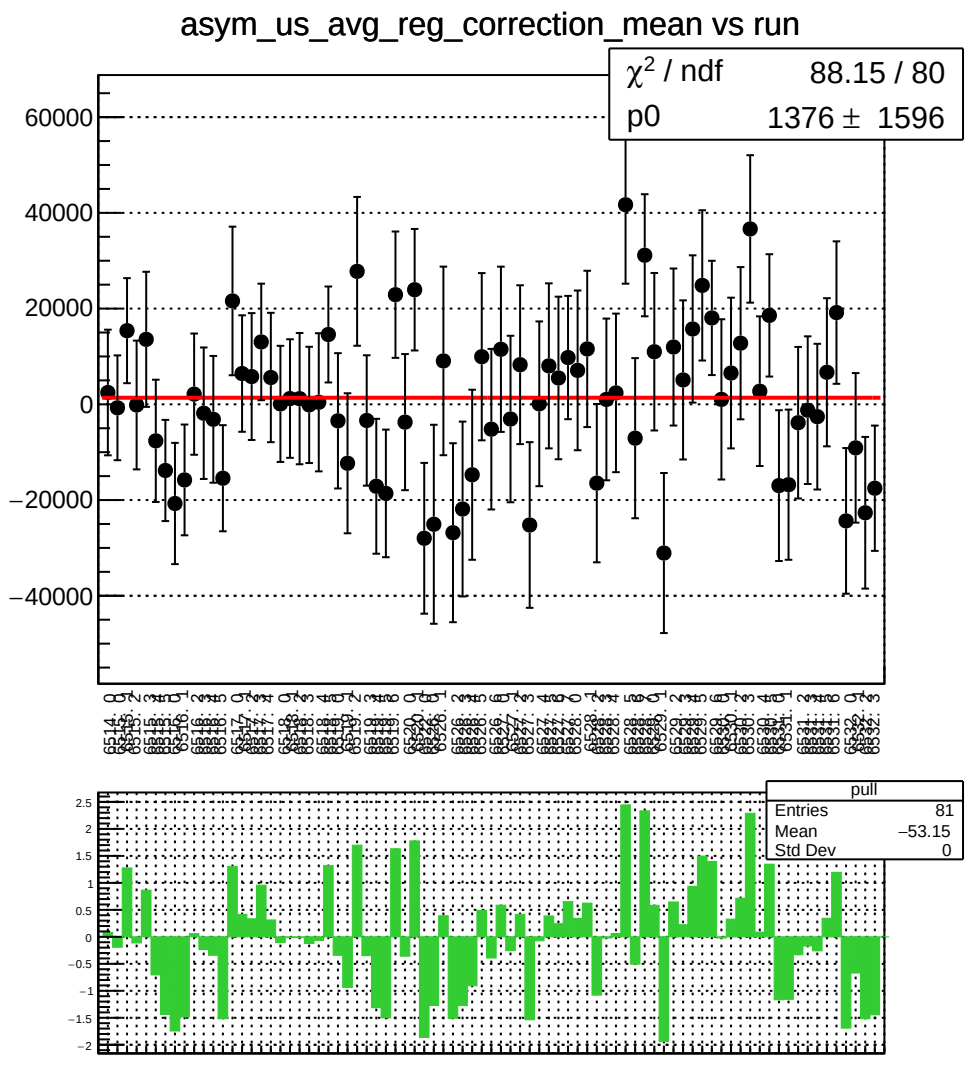
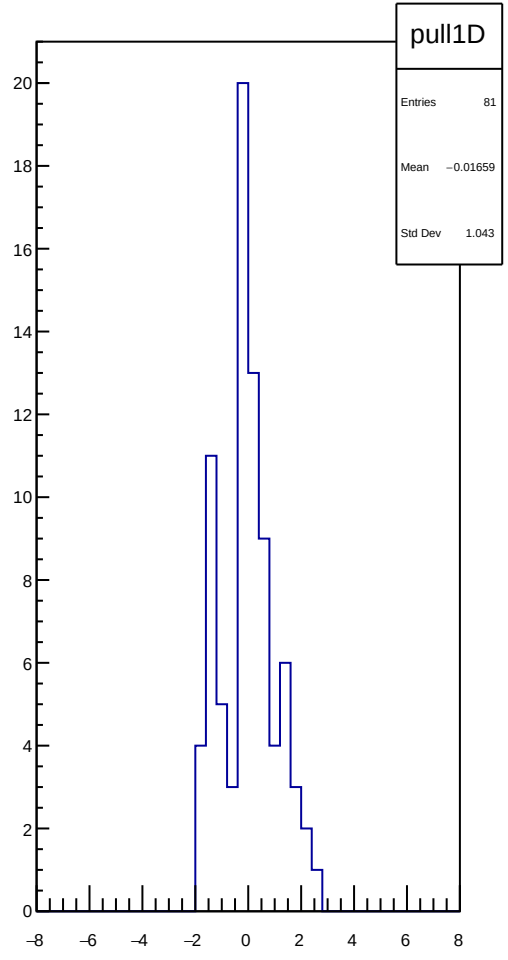
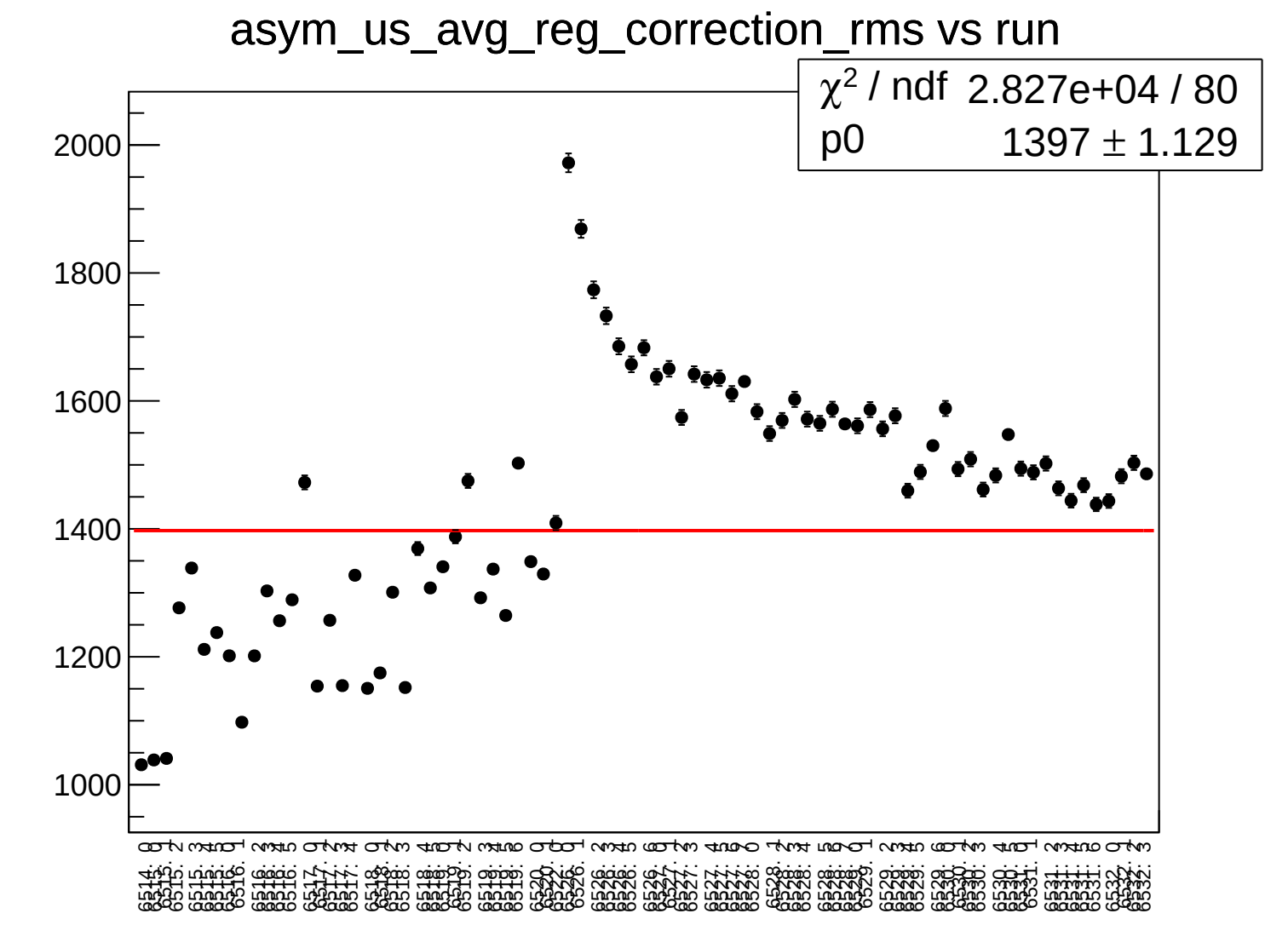

reg_asym_us_avg_mean vs run
χ² / ndf 66.09 / 80
p0 706.4 ± 887.3
30000
20000
10000
0
−10000
−20000
pull
Entries 81
Mean 7.171e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

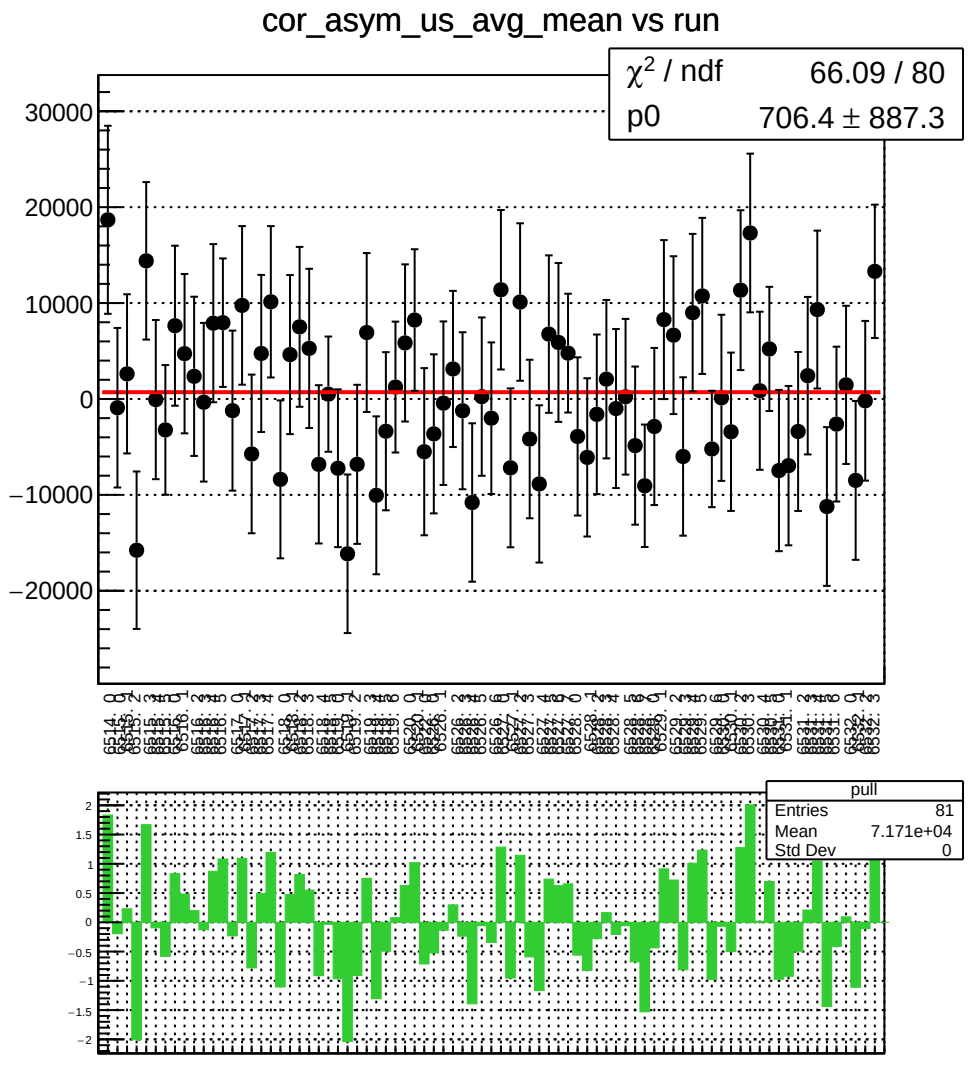

pull1D
Entries 81
Mean −1.605e−05
Std Dev 0.9033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

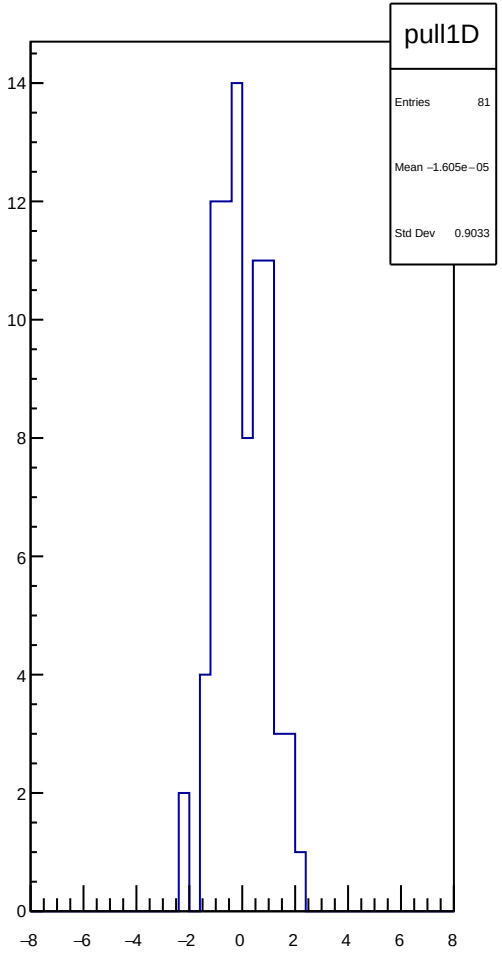

reg_asym_us_avg_rms vs run
χ² / ndf 124.8 / 80
p0 783.9 ± 0.6274
830
820
810
800
790
780
770
760

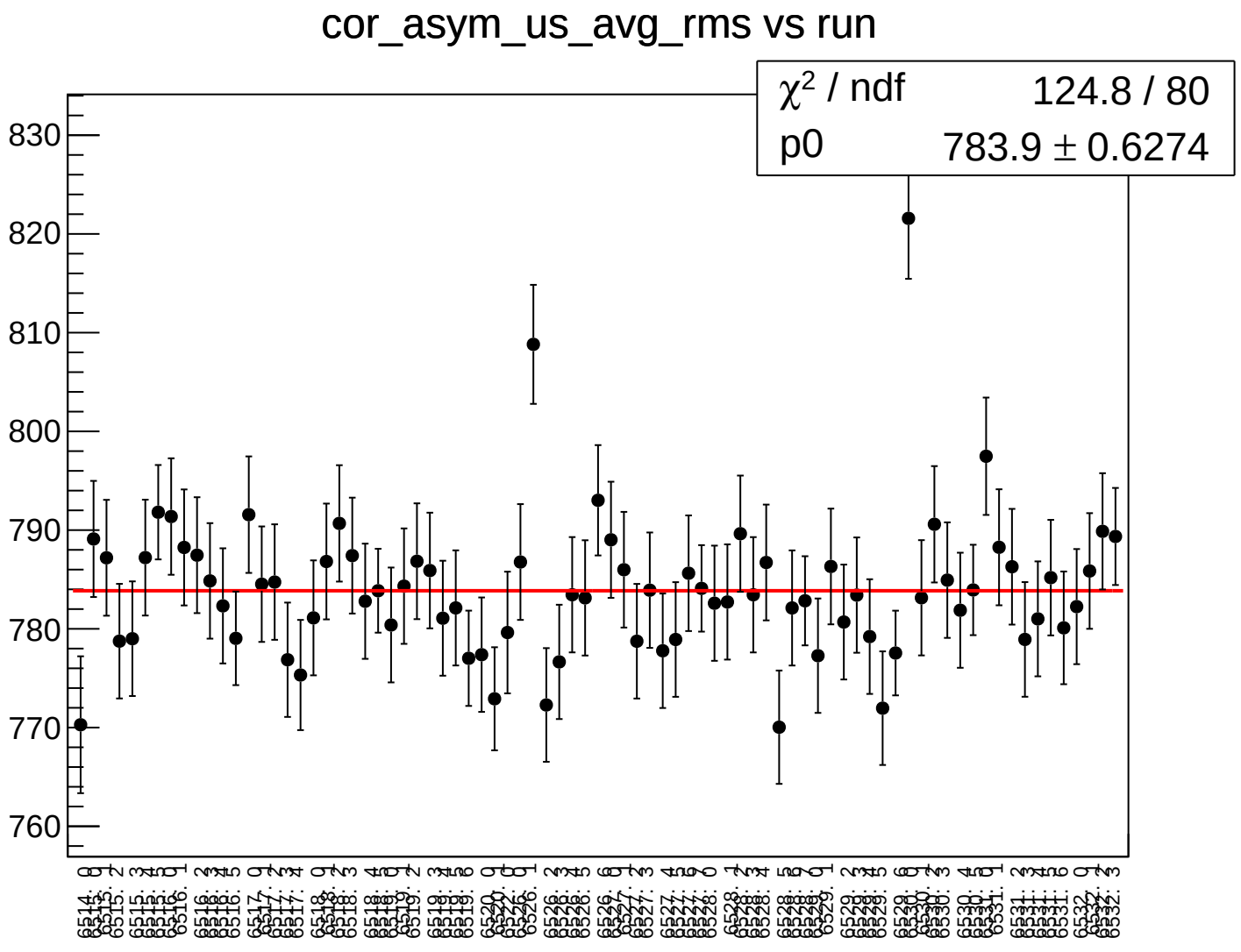

asym_us_avg_reg_correction_mean vs run
χ² / ndf 88.15 / 80
p0 1376 ± 1596
pull
Entries 81
Mean −53.15
Std Dev 0

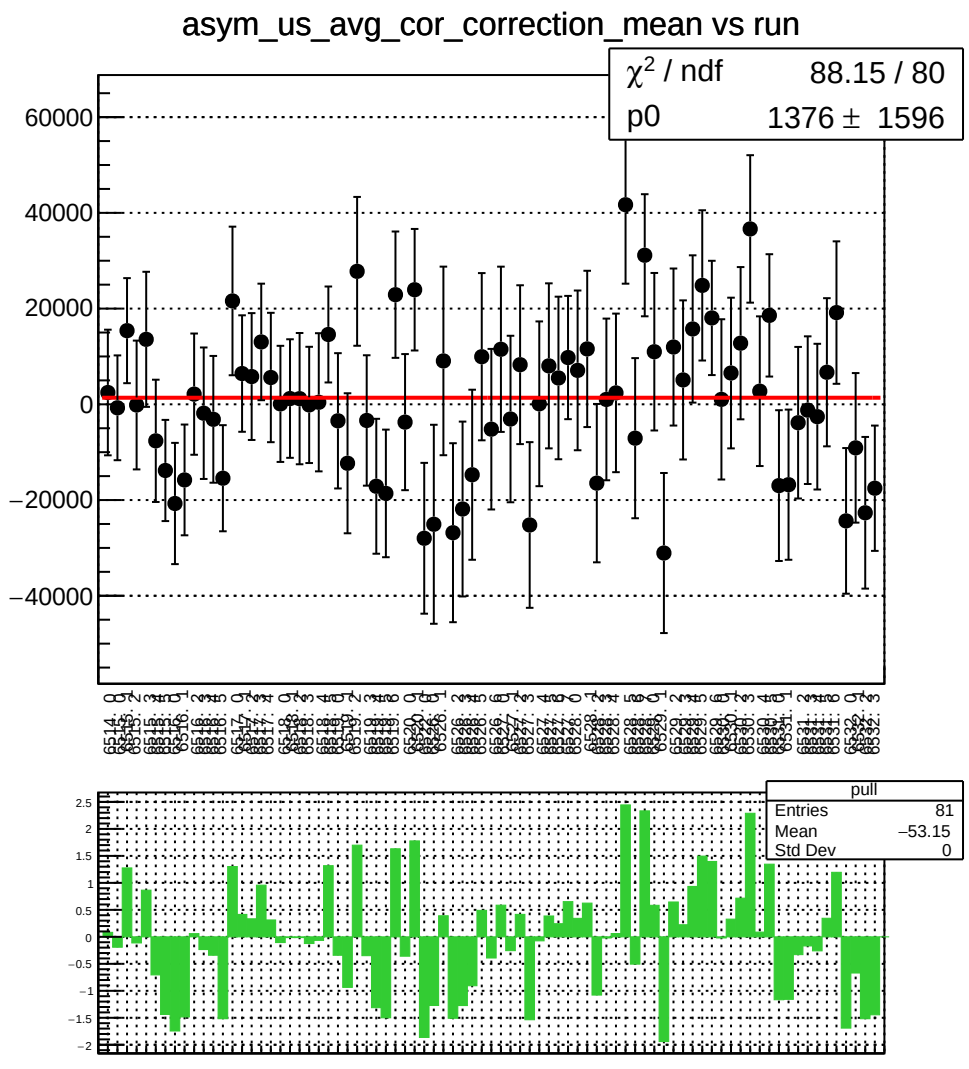

pull1D
Entries 81
Mean −0.01659
Std Dev 1.043

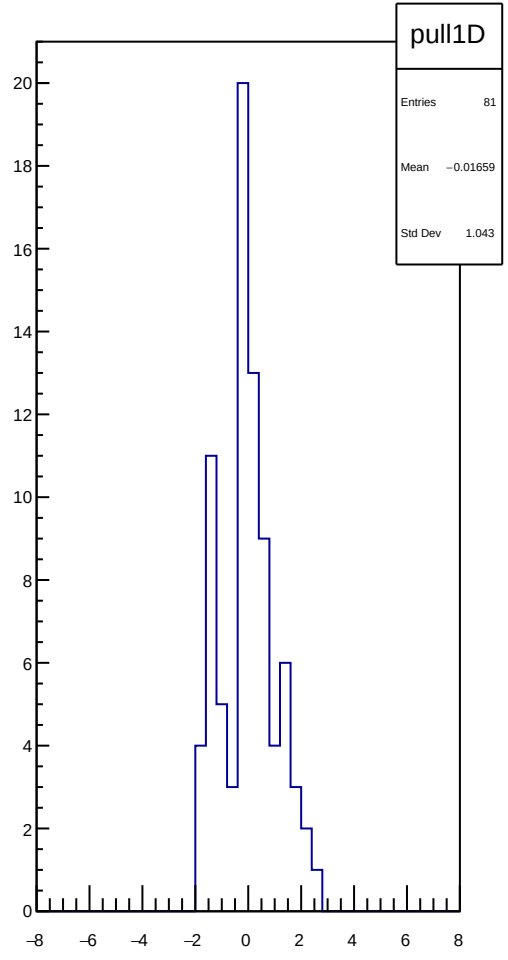

asym_us_avg_reg_correction_rms vs run
χ² / ndf 2.827e+04 / 80
p0 1397 ± 1.129
2000
1800
1600
1400
1200
1000

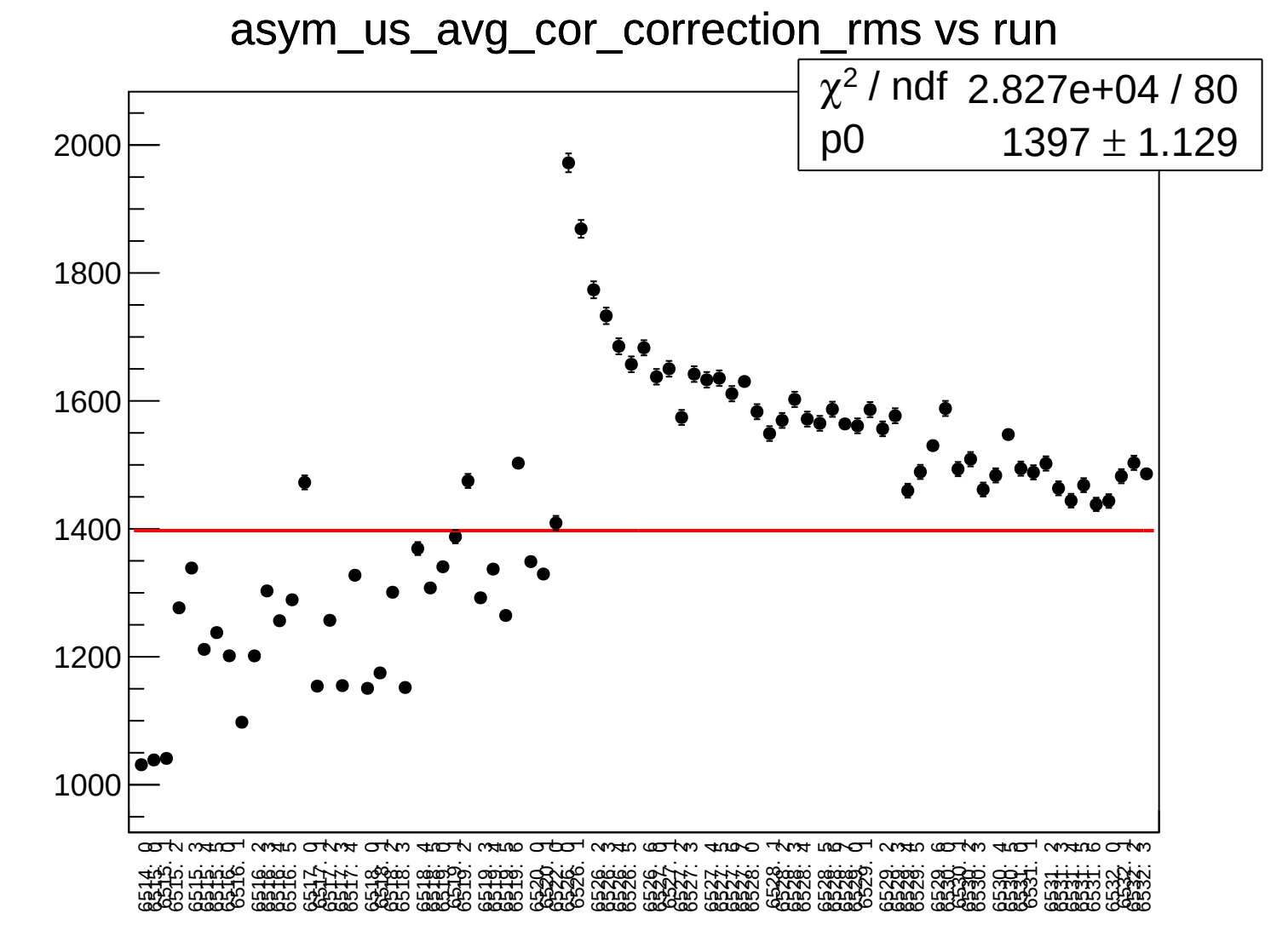

cor_asym_us_avg_mean vs run
χ² / ndf 66.09 / 80
p0 706.4 ± 887.3
30000
20000
10000
0
−10000
−20000
pull
Entries 81
Mean 7.171e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

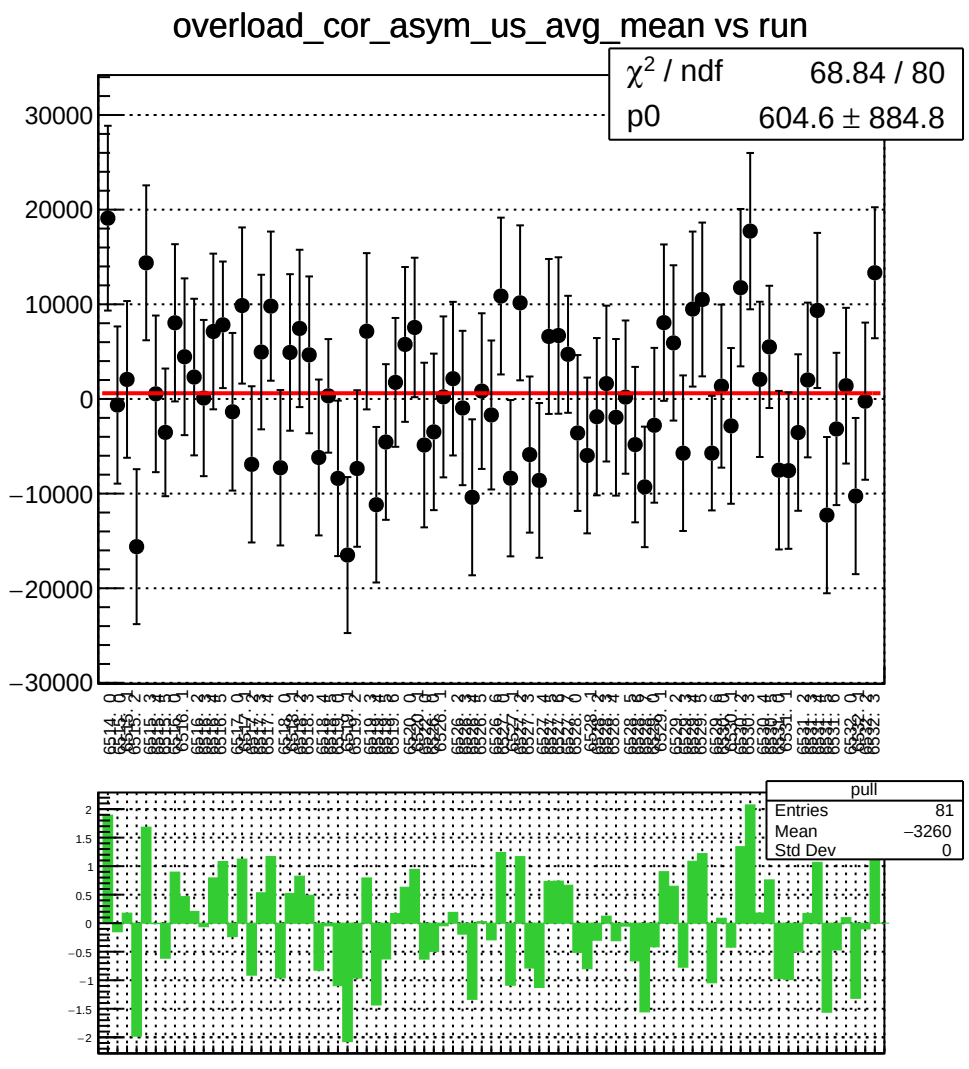

pull1D
Entries 81
Mean −1.605e−05
Std Dev 0.9033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

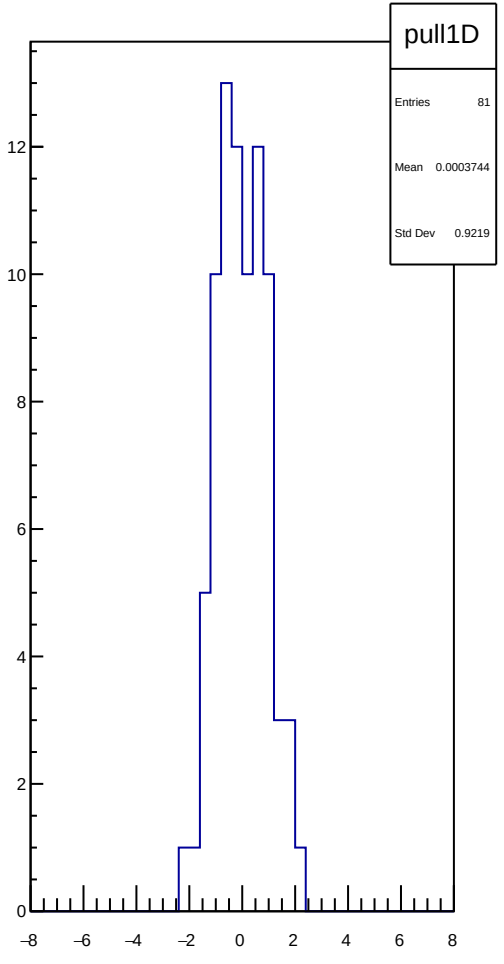

cor_asym_us_avg_rms vs run
χ² / ndf 124.8 / 80
p0 783.9 ± 0.6274
830
820
810
800
790
780
770
760

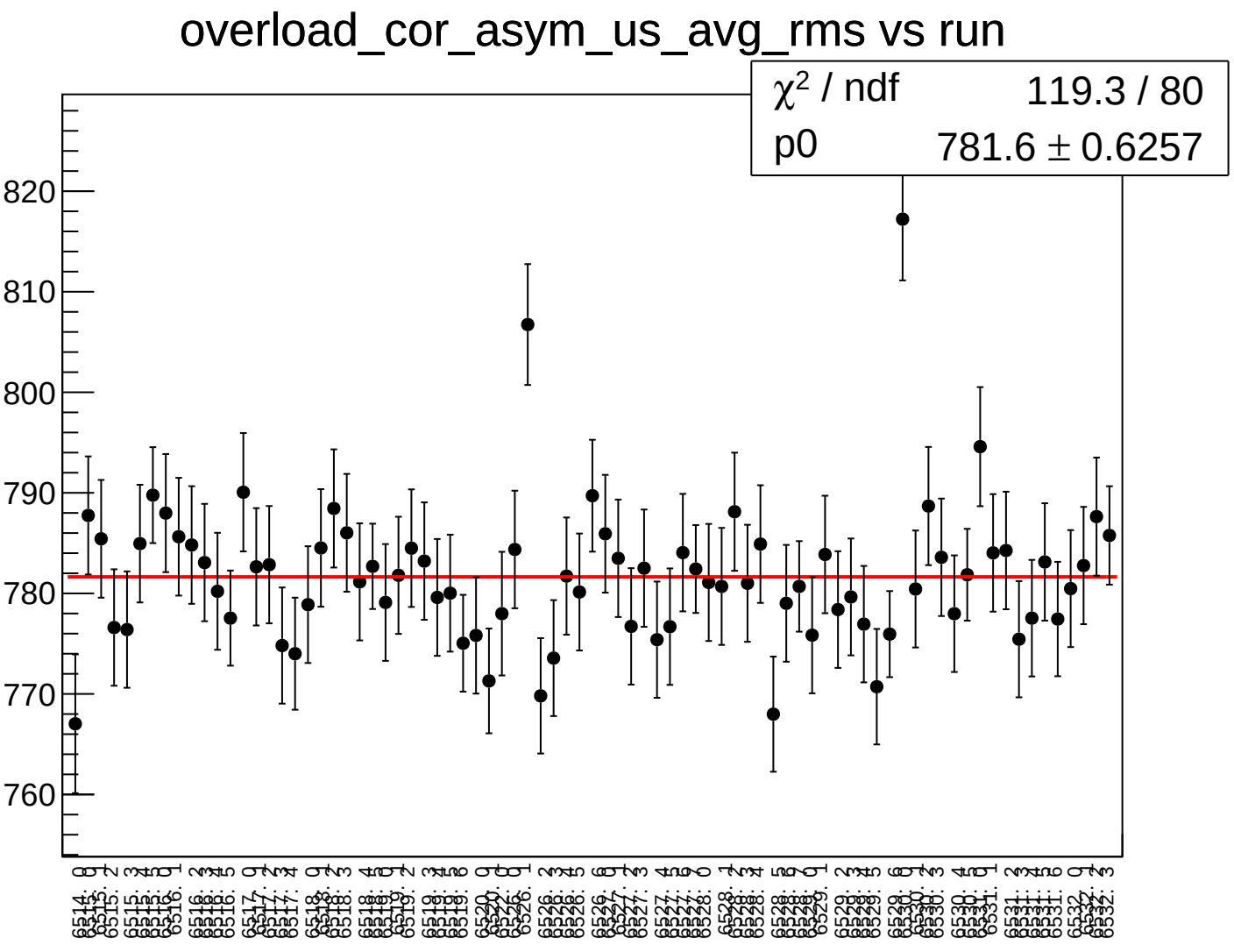

asym_us_avg_cor_correction_mean vs run
χ² / ndf 88.15 / 80
p0 1376 ± 1596
pull
Entries 81
Mean −53.15
Std Dev 0

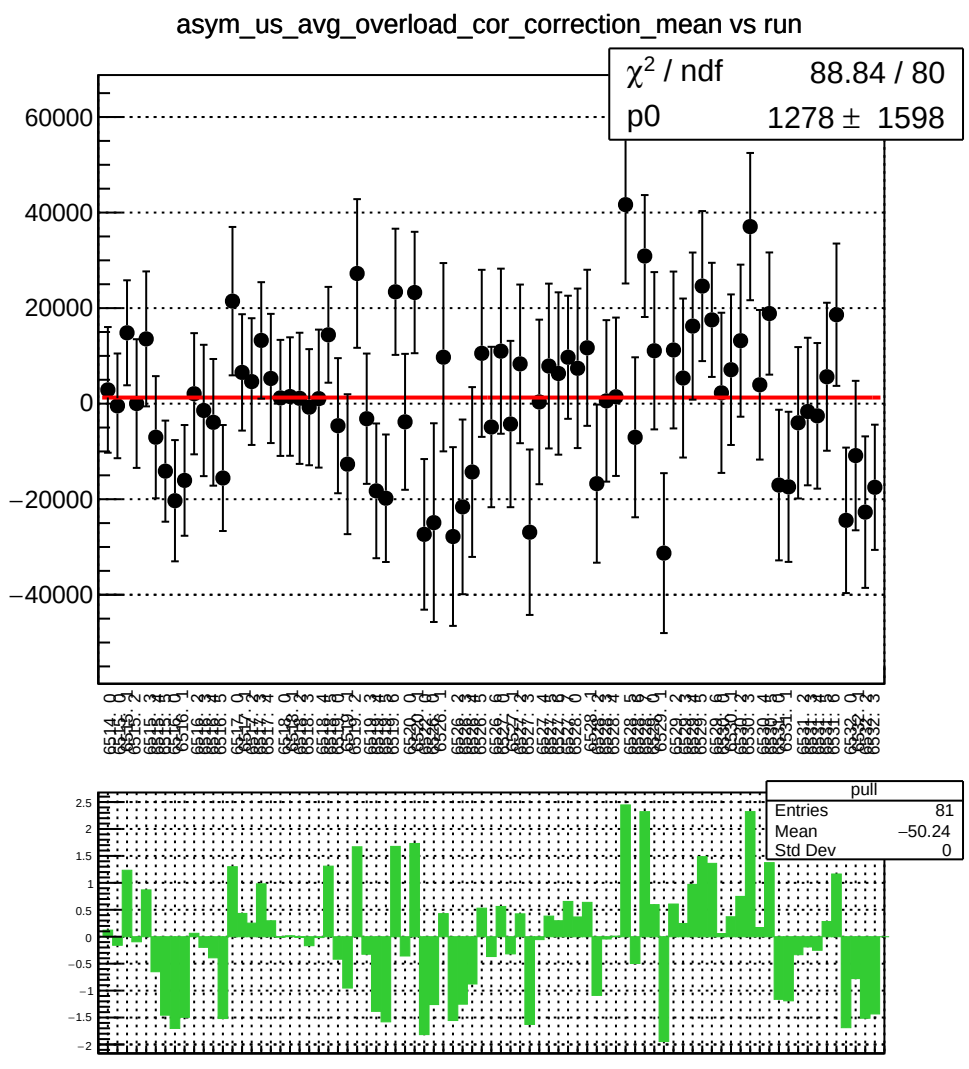

pull1D
Entries 81
Mean −0.01659
Std Dev 1.043

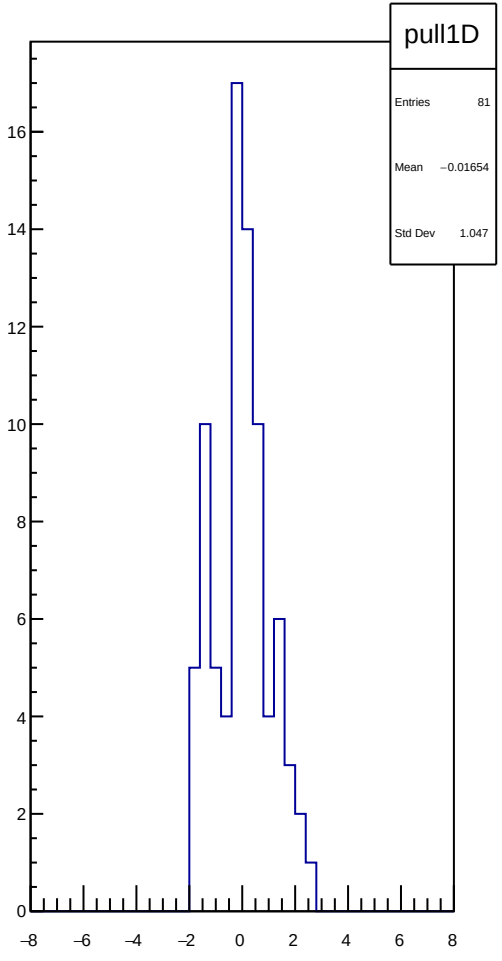

asym_us_avg_cor_correction_rms vs run
χ² / ndf 2.827e+04 / 80
p0 1397 ± 1.129
2000
1800
1600
1400
1200
1000

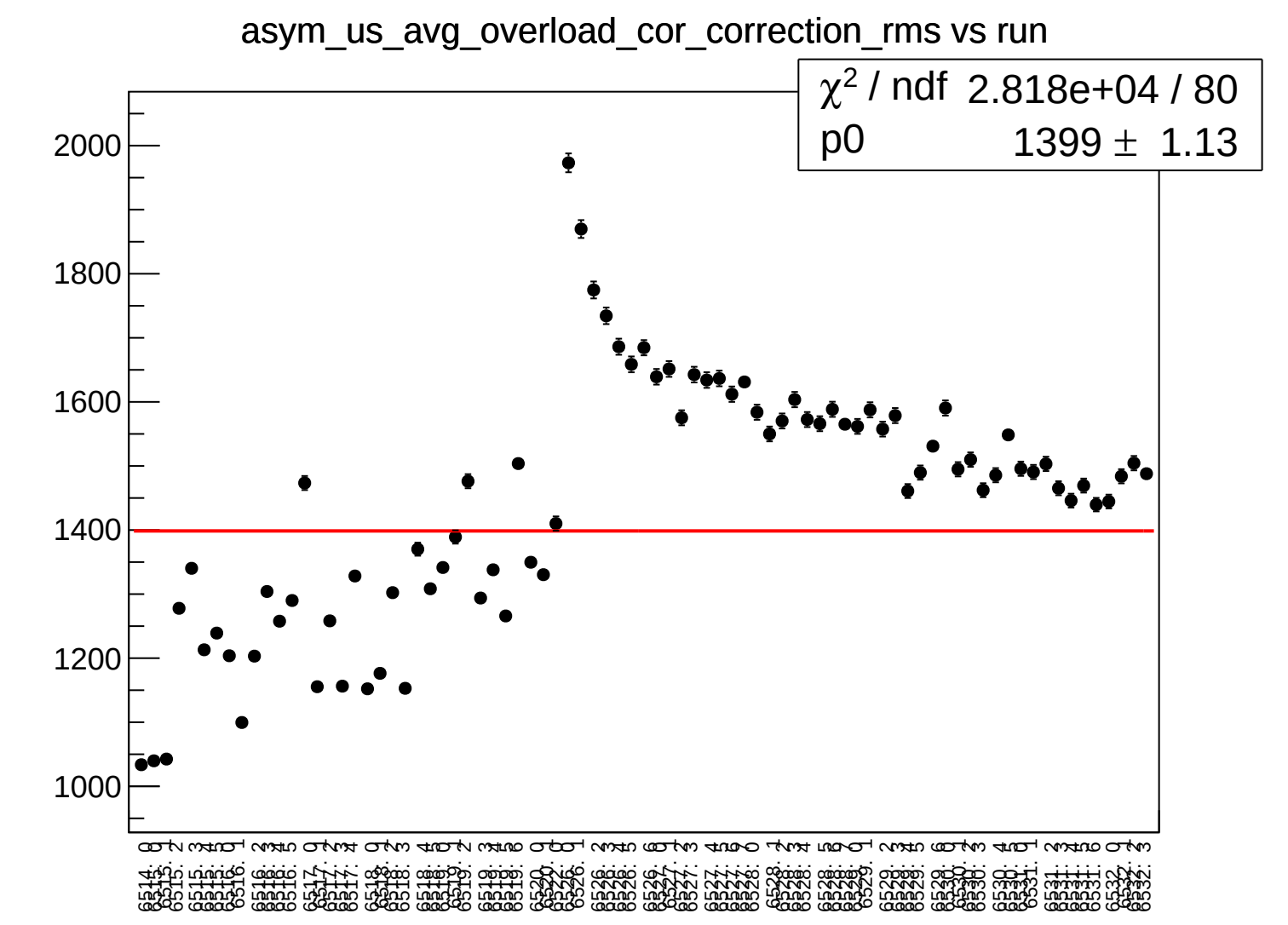

overload_cor_asym_us_avg_mean vs run
χ² / ndf 68.84 / 80
p0 604.6 ± 884.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean −3260
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

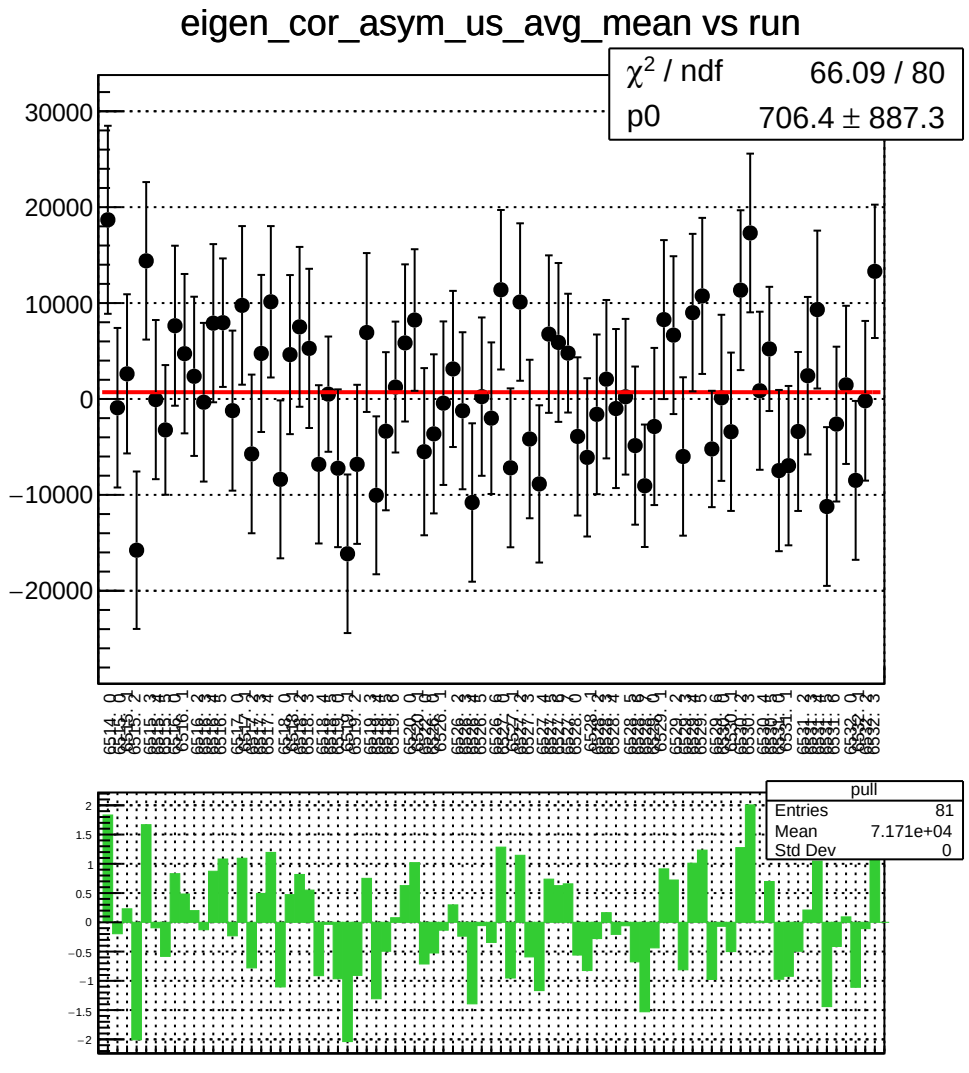

pull1D
Entries 81
Mean 0.0003744
Std Dev 0.9219
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

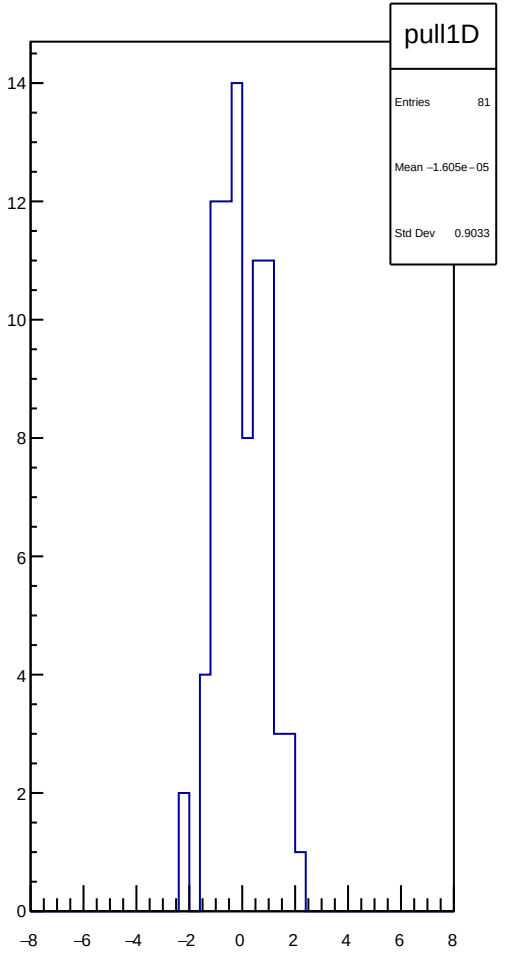

overload_cor_asym_us_avg_rms vs run
χ² / ndf 119.3 / 80
p0 781.6 ± 0.6257
820
810
800
790
780
770
760

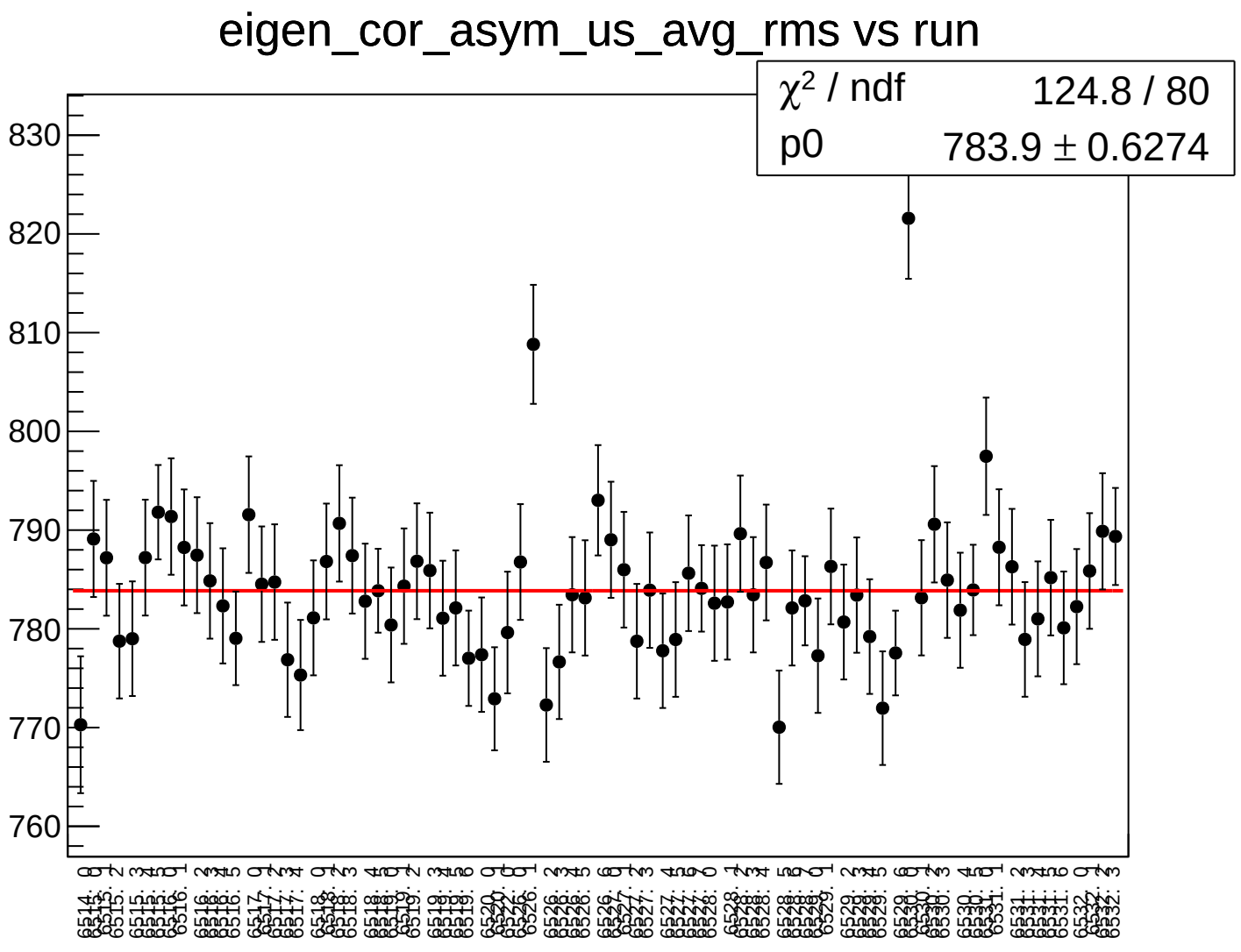

asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 88.84 / 80
p0 1278 ± 1598
pull
Entries 81
Mean −50.24
Std Dev 0

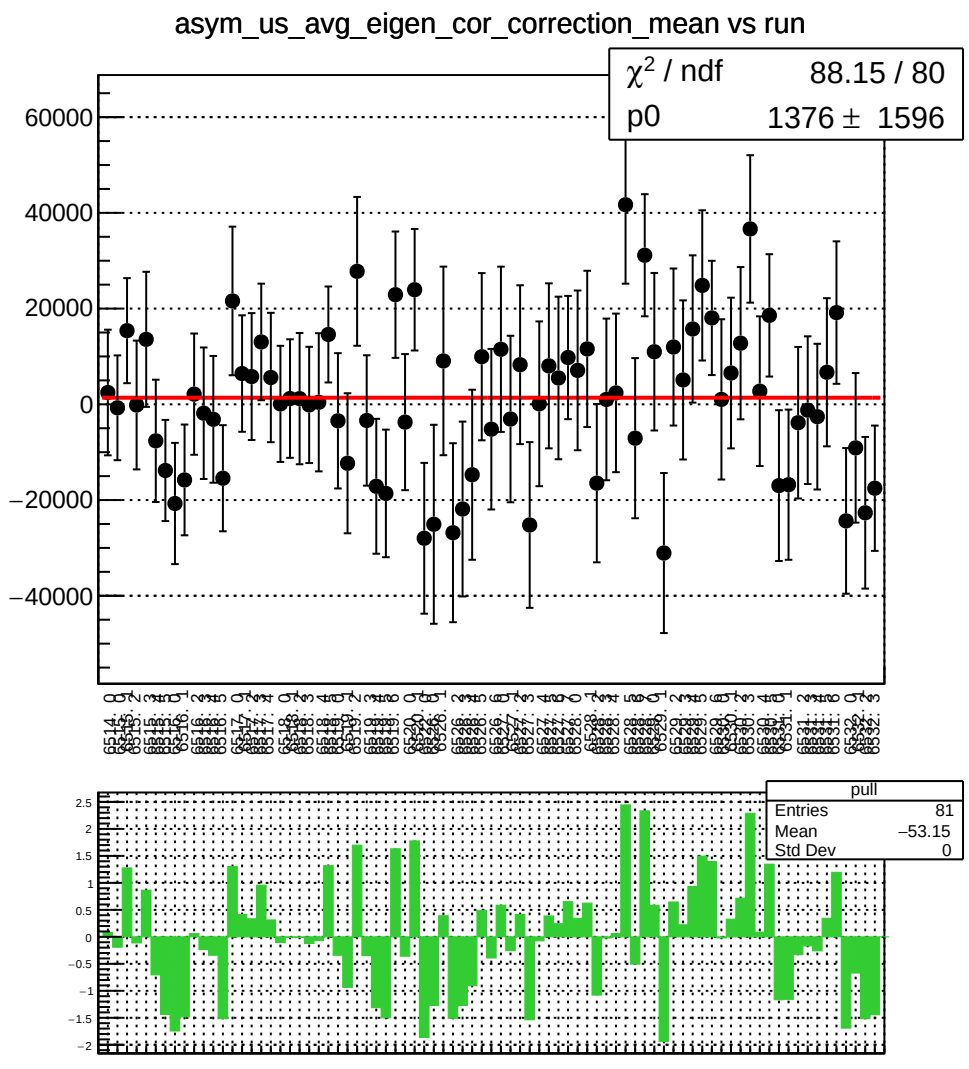

pull1D
Entries 81
Mean −0.01654
Std Dev 1.047

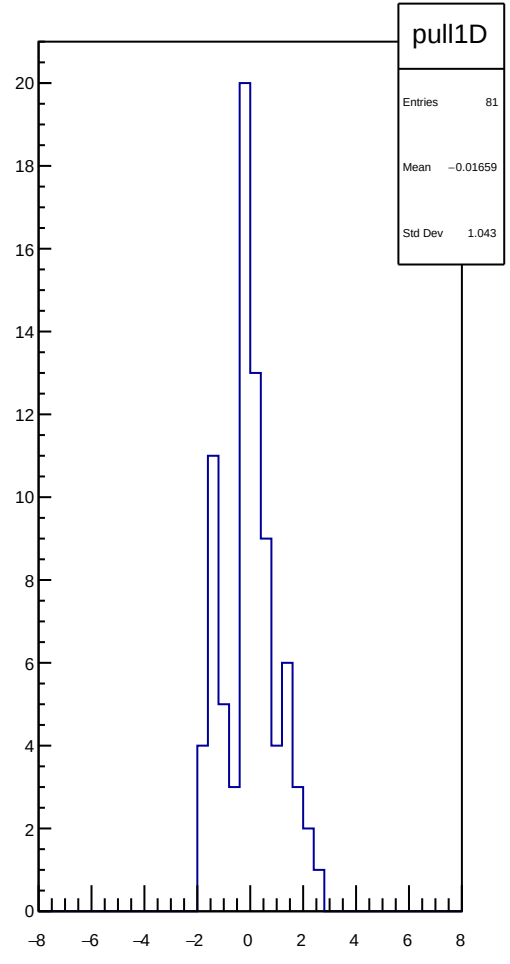

asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 2.818e+04 / 80
p0 1399 ± 1.13
2000
1800
1600
1400
1200
1000

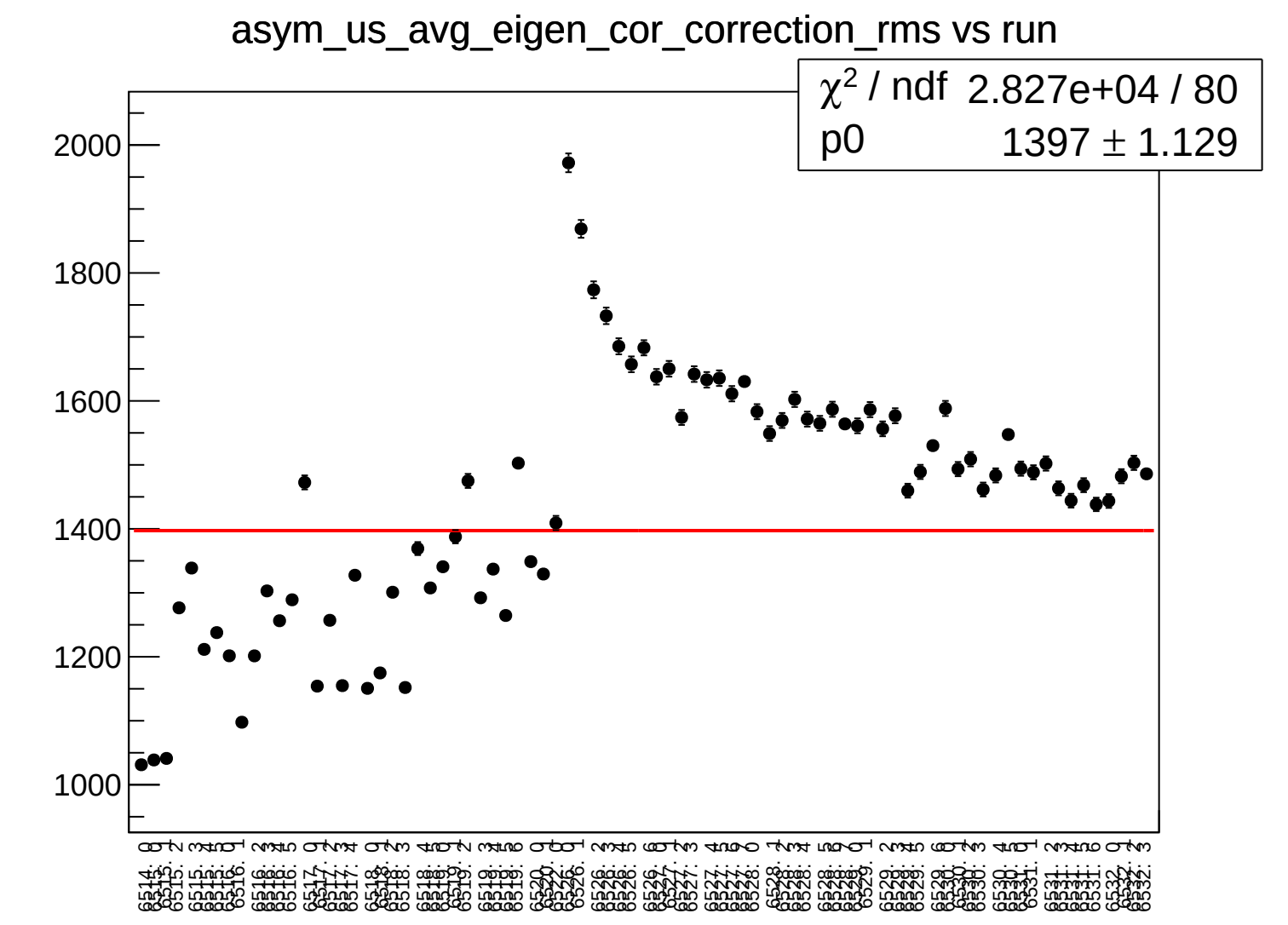

eigen_cor_asym_us_avg_mean vs run
χ² / ndf 66.09 / 80
p0 706.4 ± 887.3
30000
20000
10000
0
−10000
−20000
pull
Entries 81
Mean 7.171e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

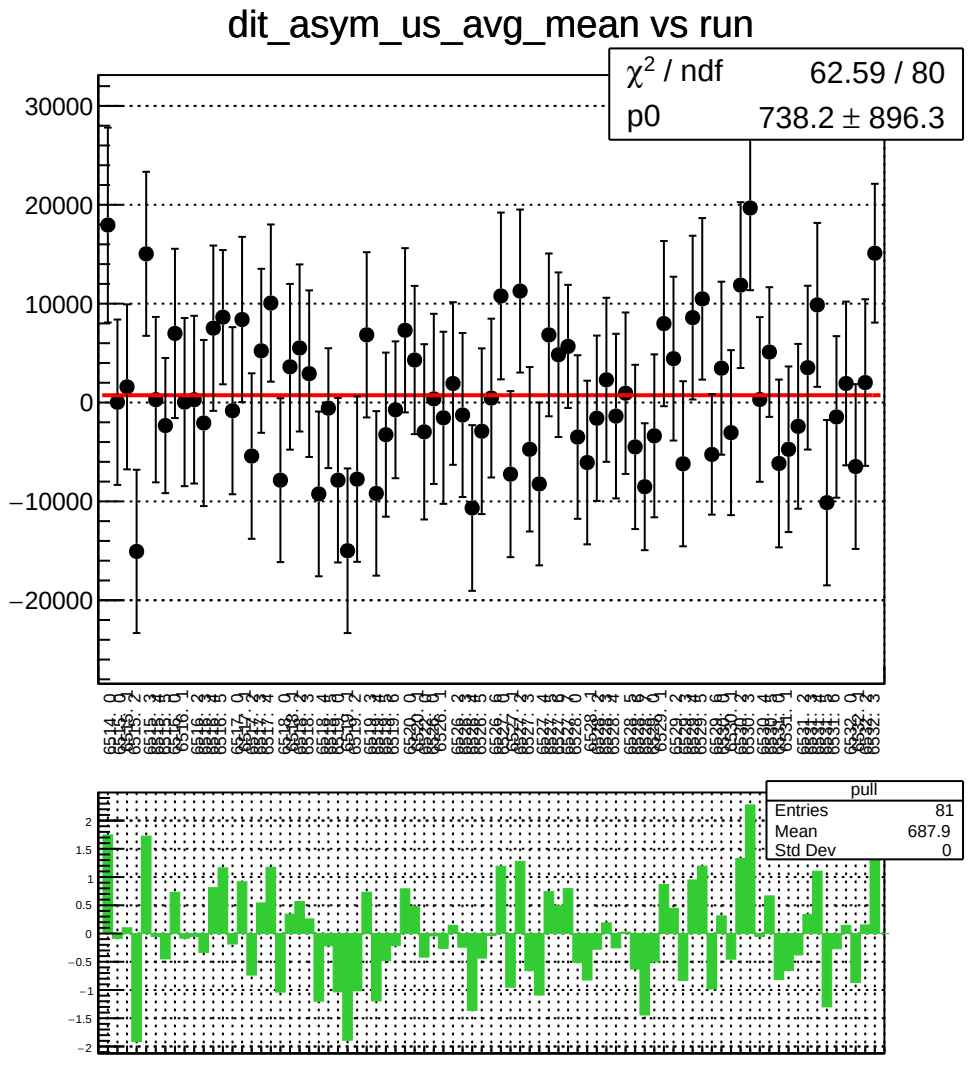

pull1D
Entries 81
Mean −1.605e−05
Std Dev 0.9033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

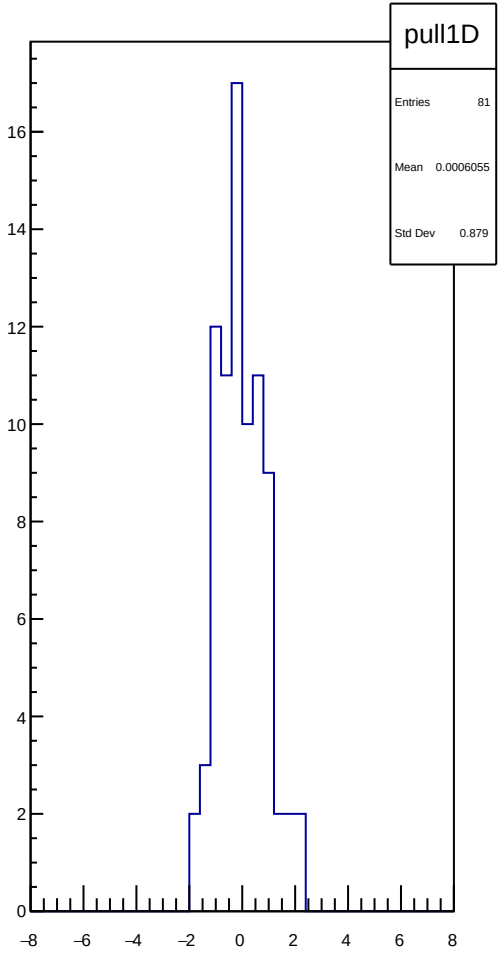

eigen_cor_asym_us_avg_rms vs run
χ² / ndf 124.8 / 80
p0 783.9 ± 0.6274
830
820
810
800
790
780
770
760

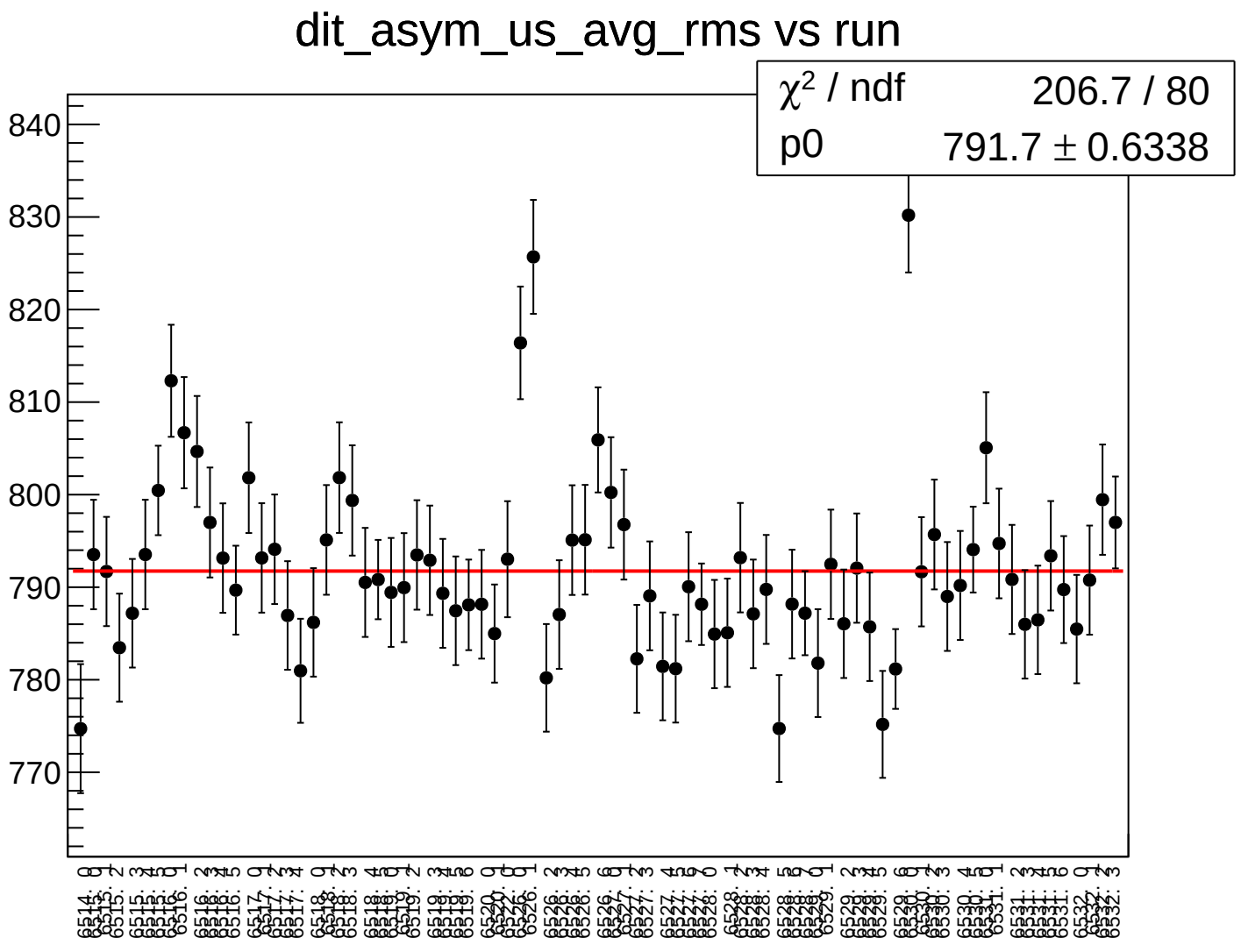

asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 88.15 / 80
p0 1376 ± 1596
pull
Entries 81
Mean −53.15
Std Dev 0

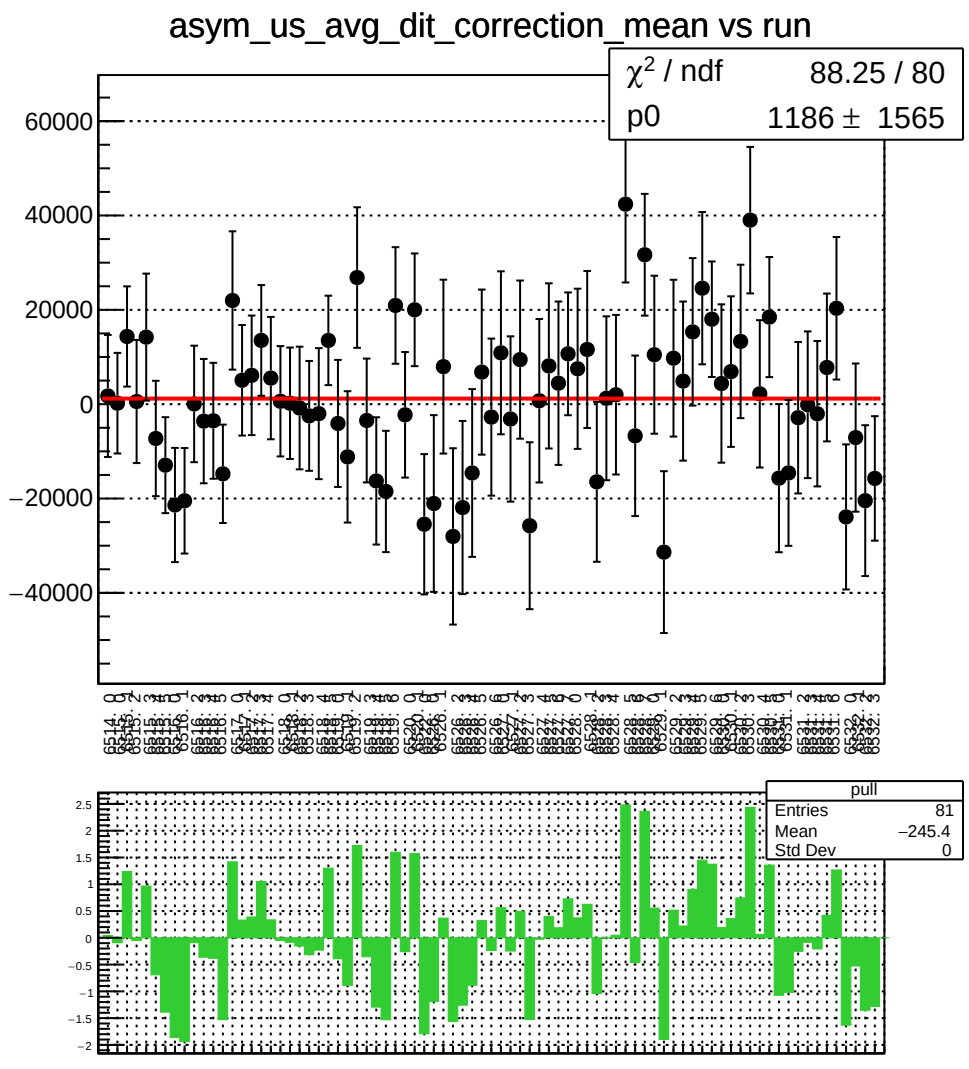

pull1D
Entries 81
Mean −0.01659
Std Dev 1.043

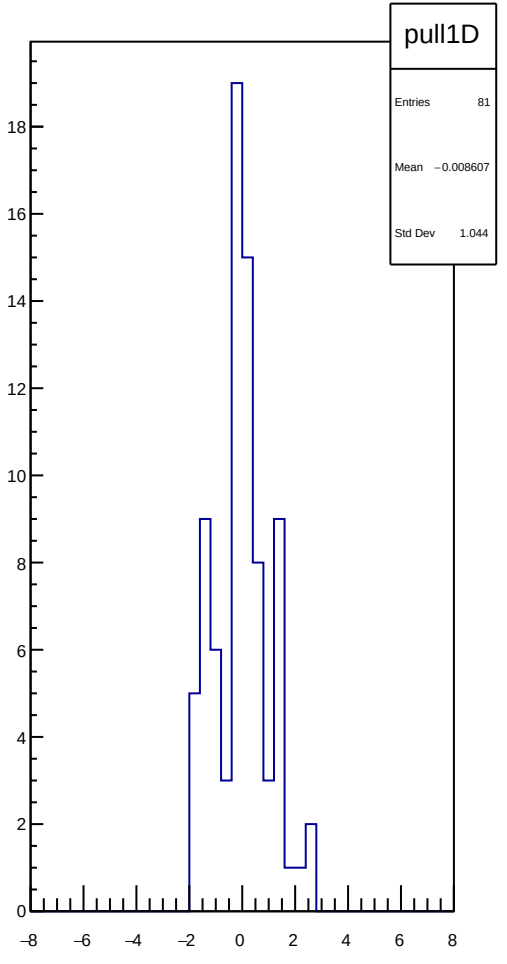

asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.827e+04 / 80
p0 1397 ± 1.129
2000
1800
1600
1400
1200
1000

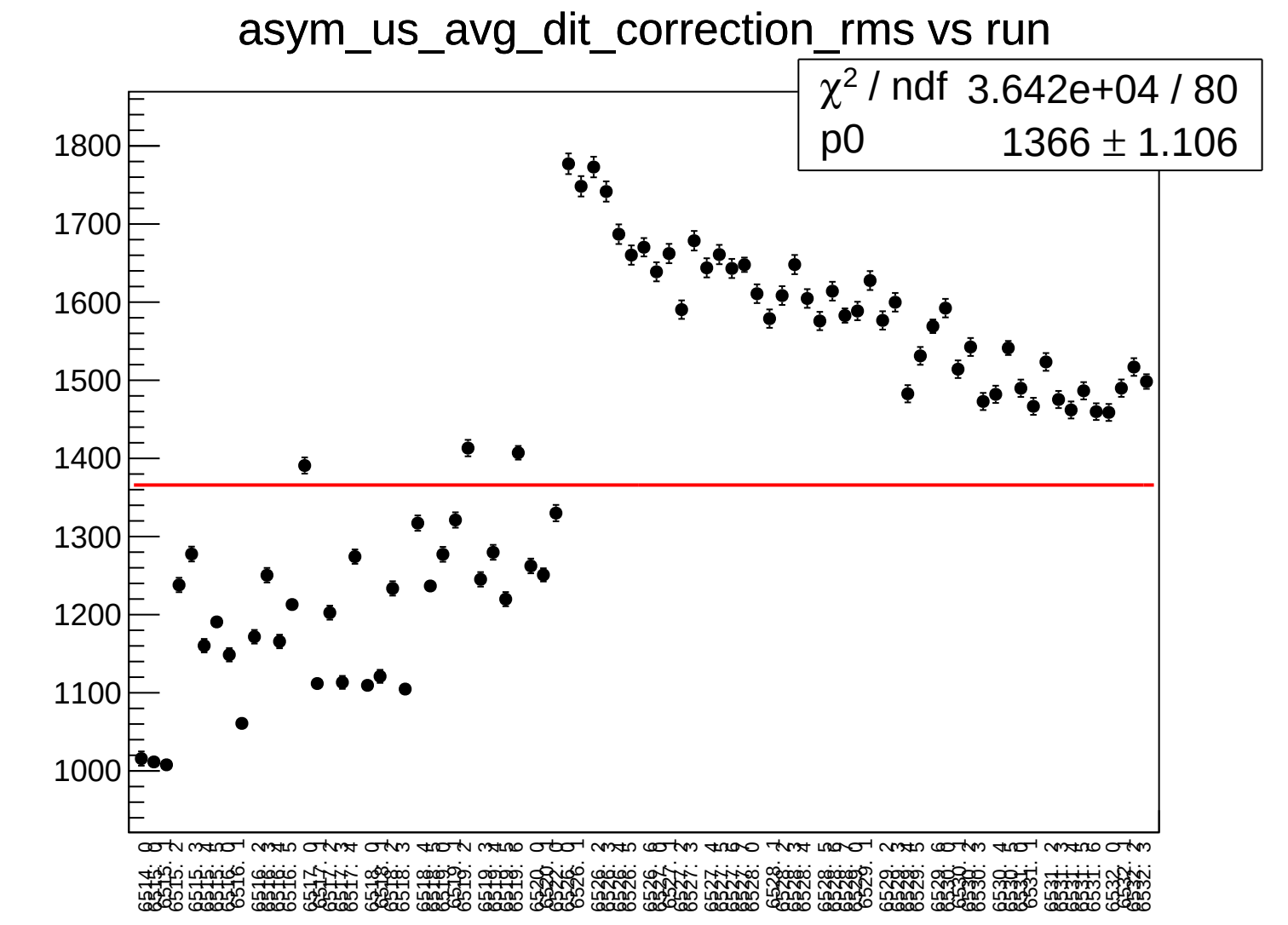

dit_asym_us_avg_mean vs run
χ² / ndf 62.59 / 80
p0 738.2 ± 896.3
pull
Entries 81
Mean 687.9
Std Dev 0

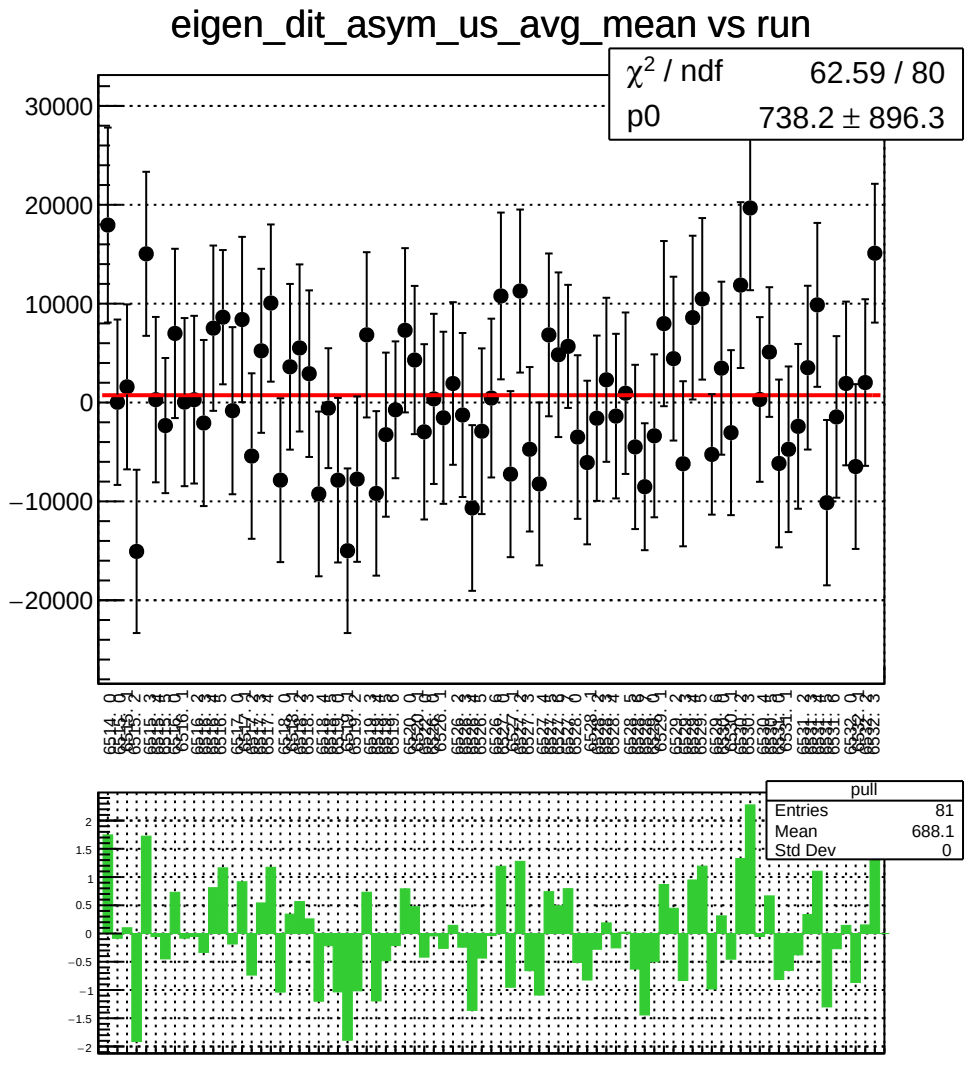

pull1D
Entries 81
Mean 0.0006055
Std Dev 0.879

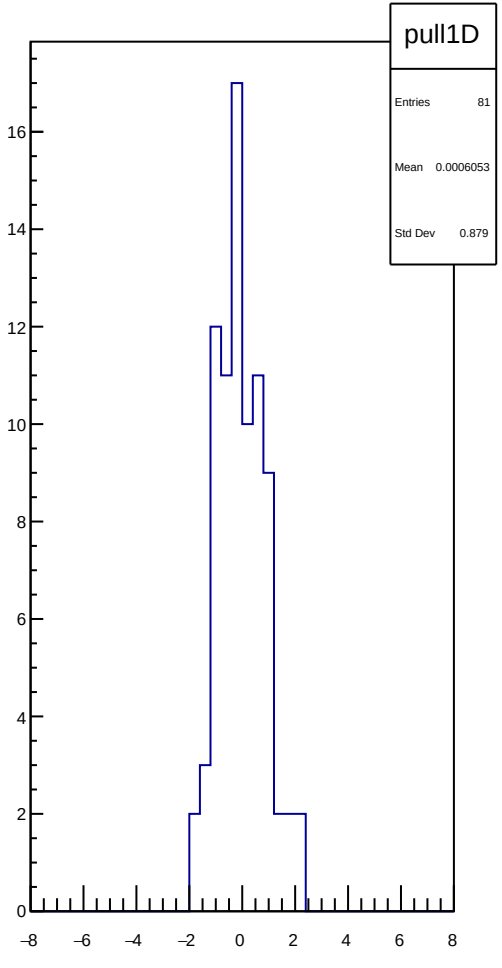

dit_asym_us_avg_rms vs run
χ² / ndf 206.7 / 80
p0 791.7 ± 0.6338
840
830
820
810
800
790
780
770

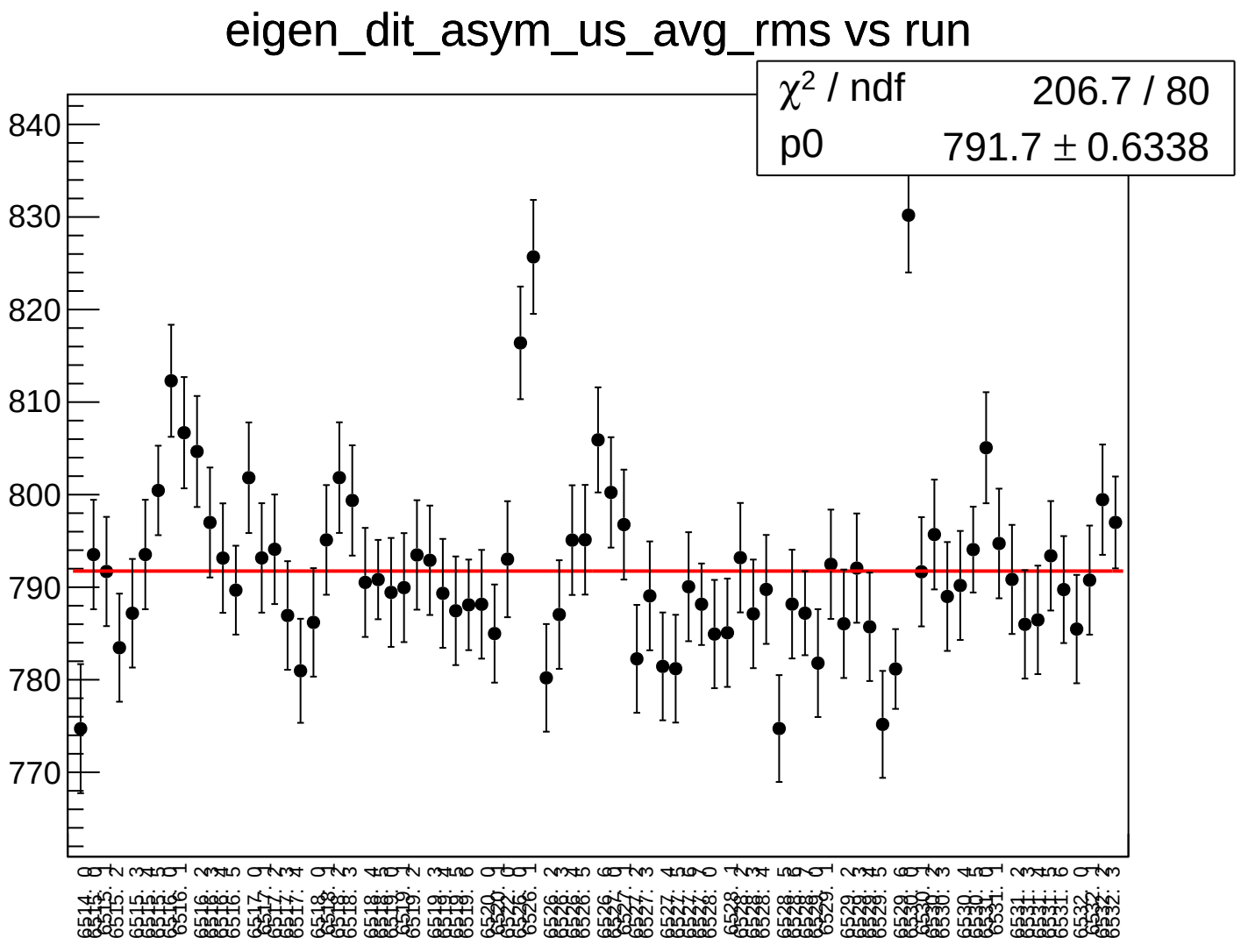

asym_us_avg_dit_correction_mean vs run
χ² / ndf 88.25 / 80
p0 1186 ± 1565
pull
Entries 81
Mean −245.4
Std Dev 0

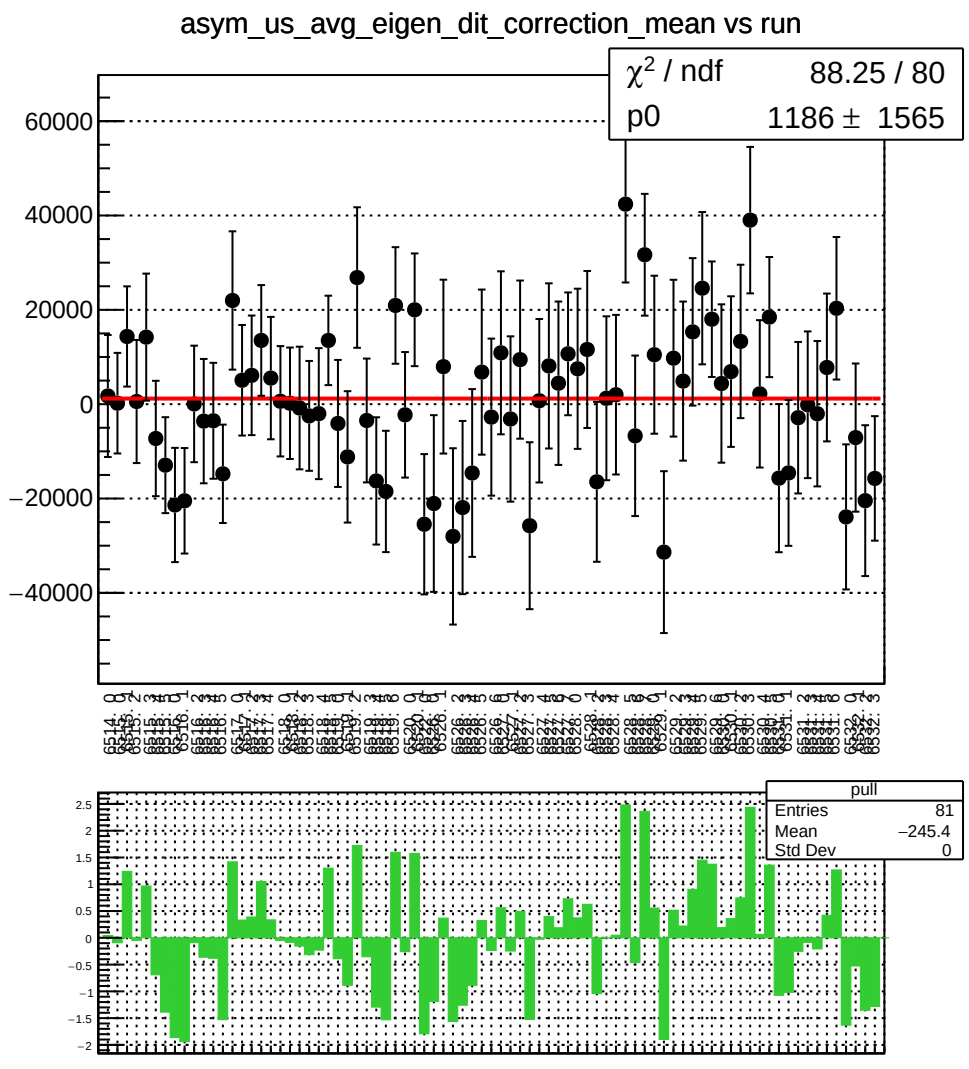

pull1D
Entries 81
Mean −0.008607
Std Dev 1.044

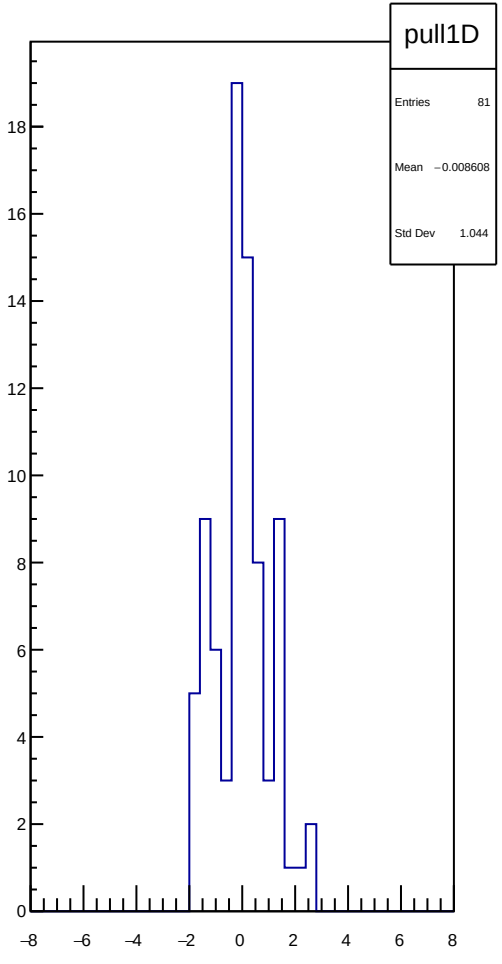

asym_us_avg_dit_correction_rms vs run
χ² / ndf 3.642e+04 / 80
p0 1366 ± 1.106
1800
1700
1600
1500
1400
1300
1200
1100
1000

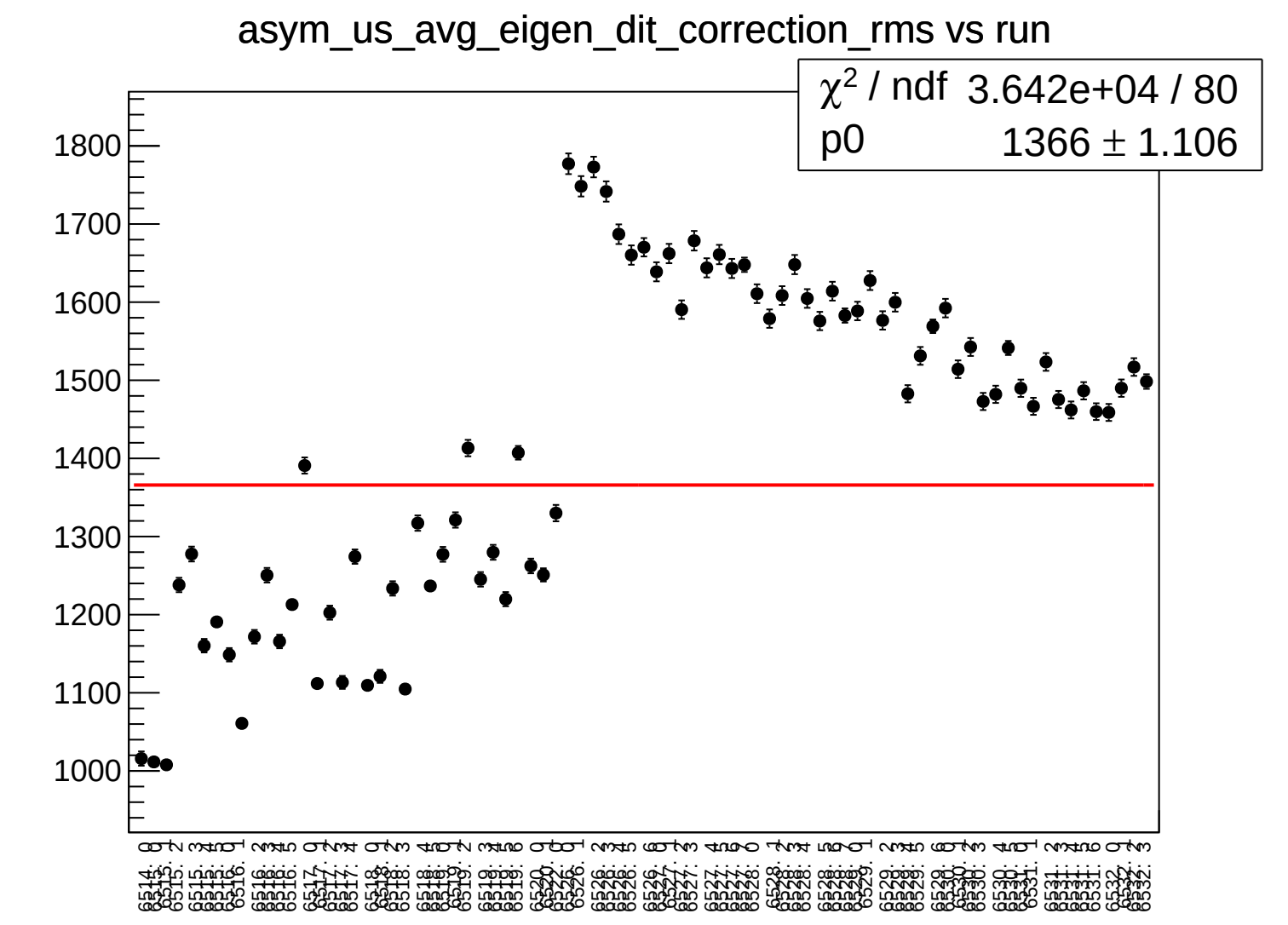

eigen_dit_asym_us_avg_mean vs run
χ² / ndf 62.59 / 80
p0 738.2 ± 896.3
pull
Entries 81
Mean 688.1
Std Dev 0

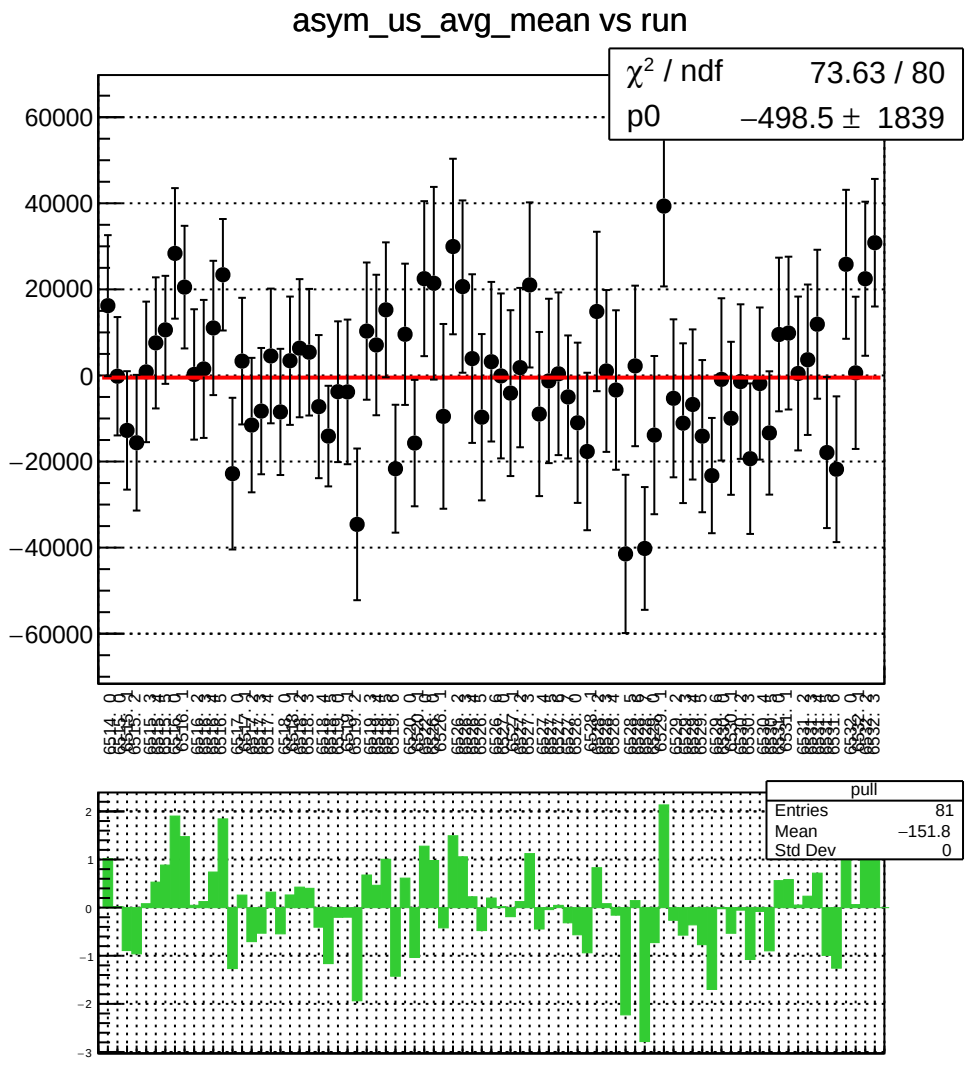

pull1D
Entries 81
Mean 0.0006053
Std Dev 0.879

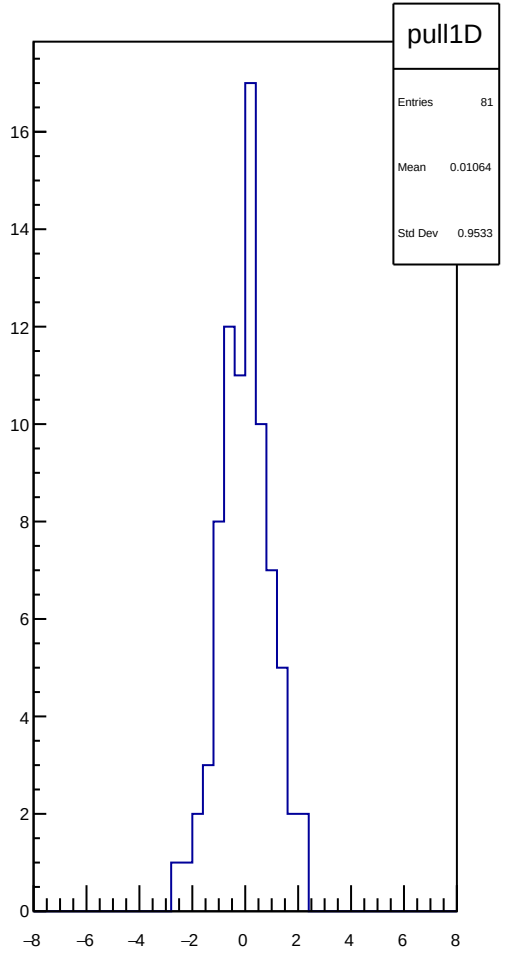

eigen_dit_asym_us_avg_rms vs run
χ² / ndf 206.7 / 80
p0 791.7 ± 0.6338
840
830
820
810
800
790
780
770

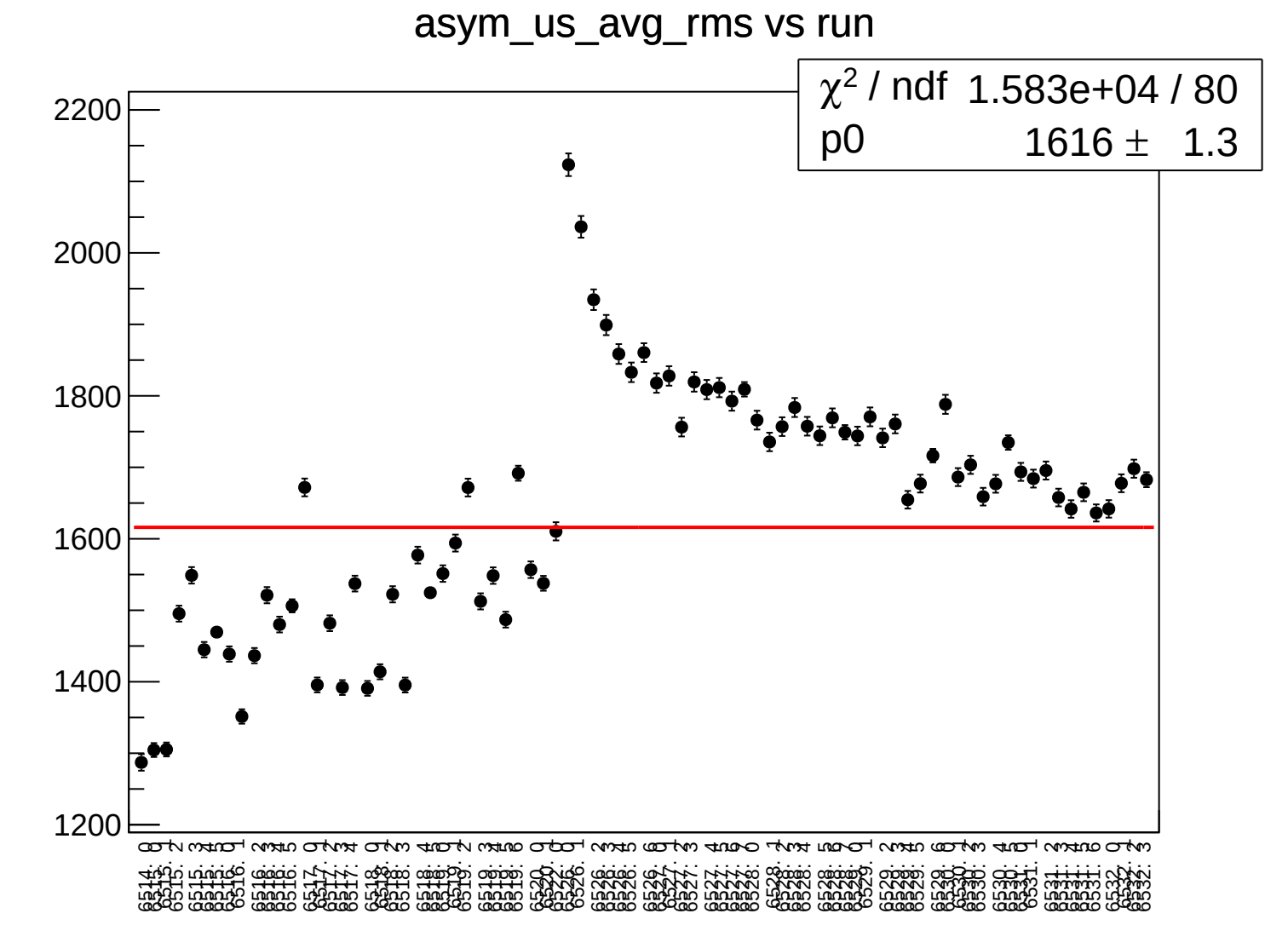

asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 88.25 / 80
p0 1186 ± 1565
pull
Entries 81
Mean −245.4
Std Dev 0

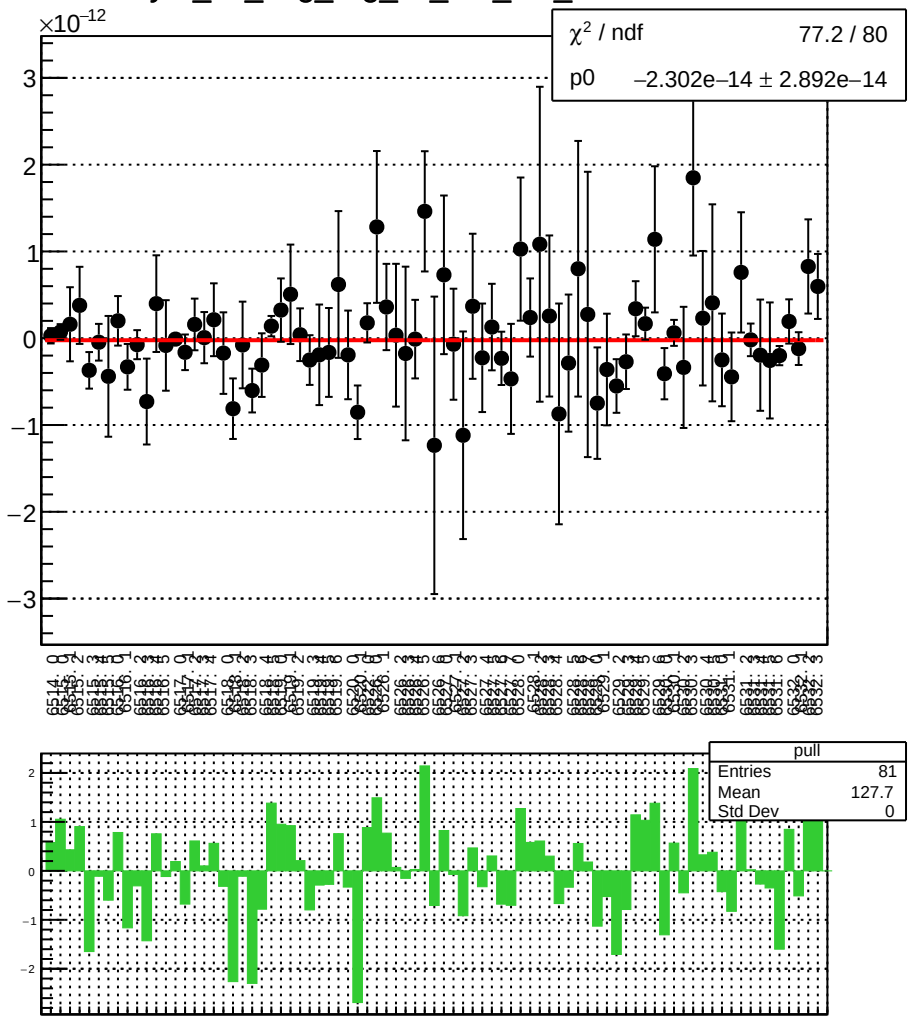

pull1D
Entries 81
Mean −0.008608
Std Dev 1.044

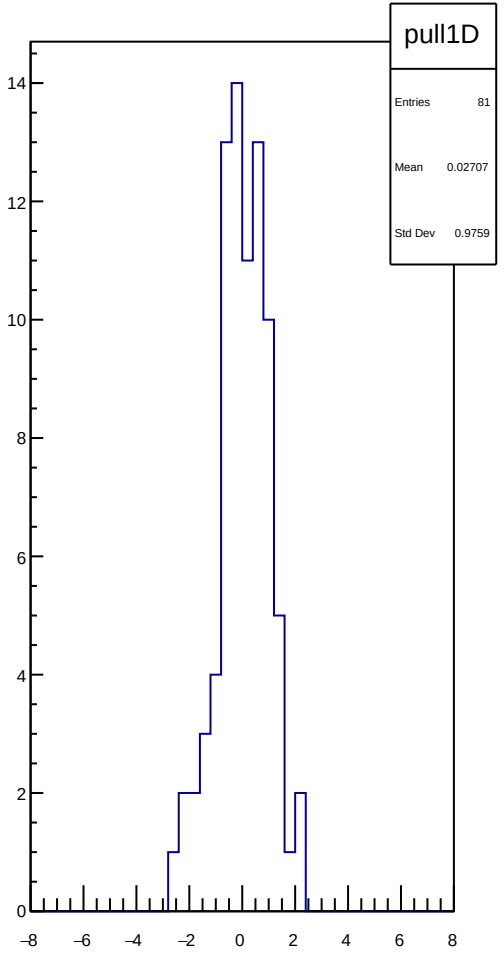

asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.642e+04 / 80
p0 1366 ± 1.106
1800
1700
1600
1500
1400
1300
1200
1100
1000

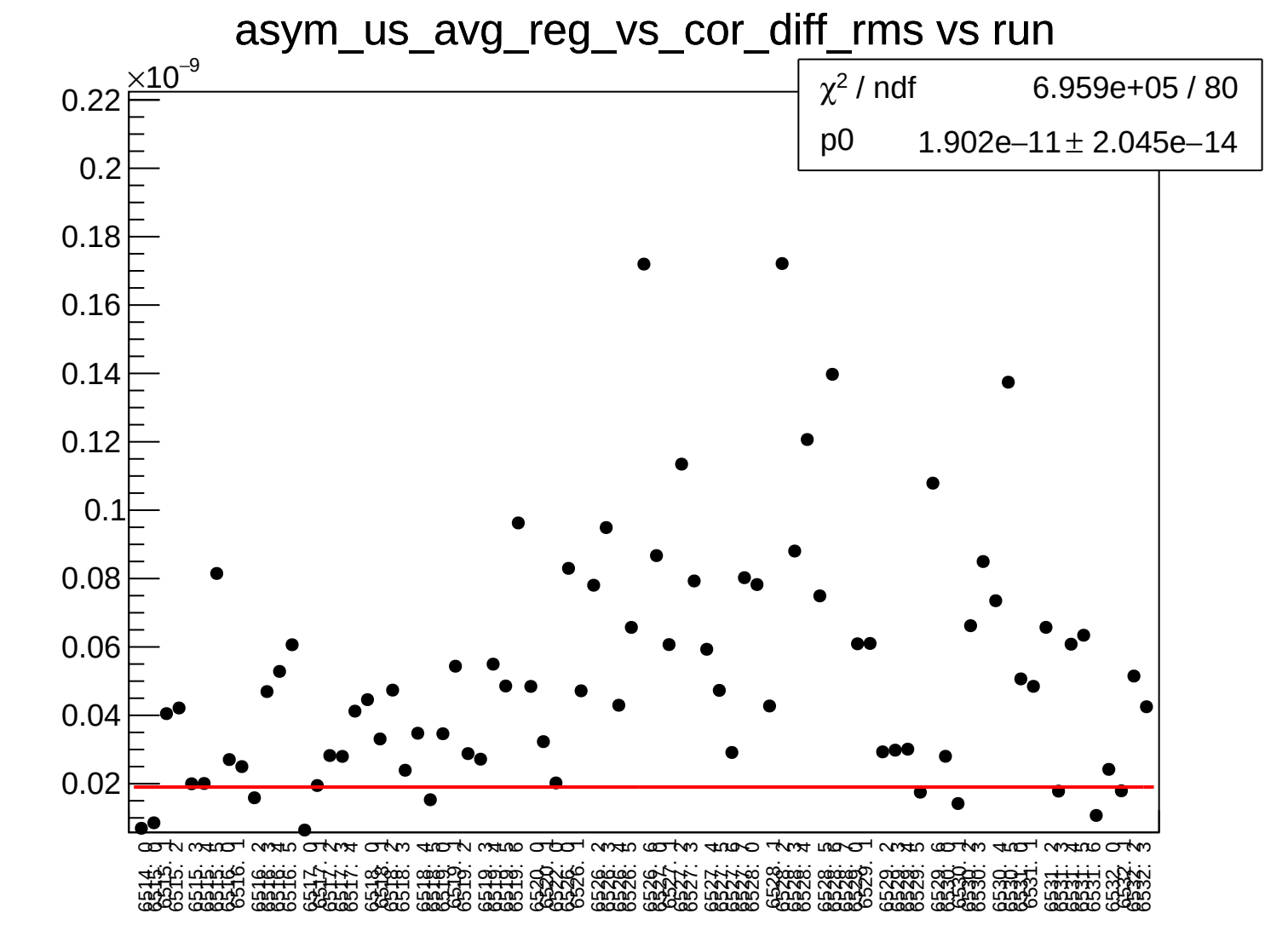

asym_us_avg_mean vs run
χ² / ndf 73.63 / 80
p0 −498.5 ± 1839
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −151.8
Std Dev 0
2
1
0
−1
−2
−3

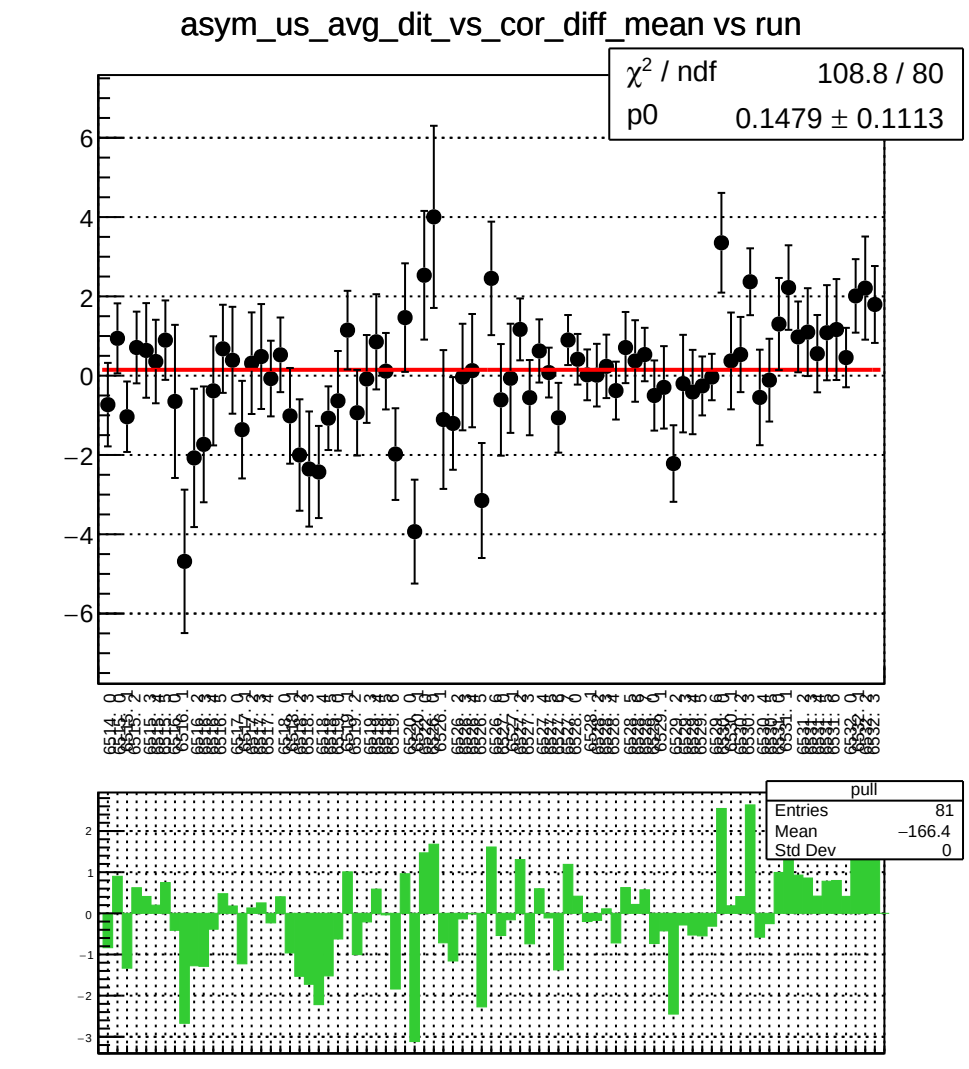

pull1D
Entries 81
Mean 0.01064
Std Dev 0.9533
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

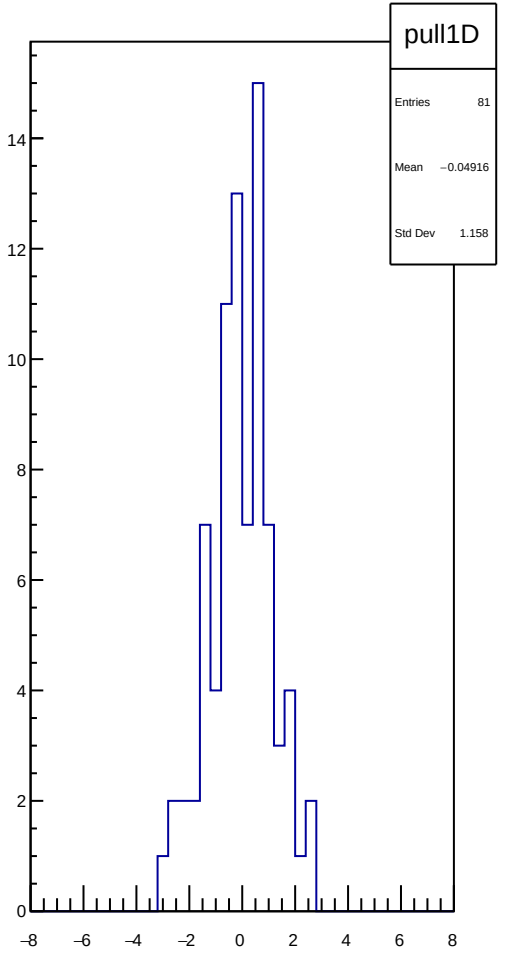

asym_us_avg_rms vs run
χ² / ndf 1.583e+04 / 80
p0 1616 ± 1.3
2200
2000
1800
1600
1400
1200

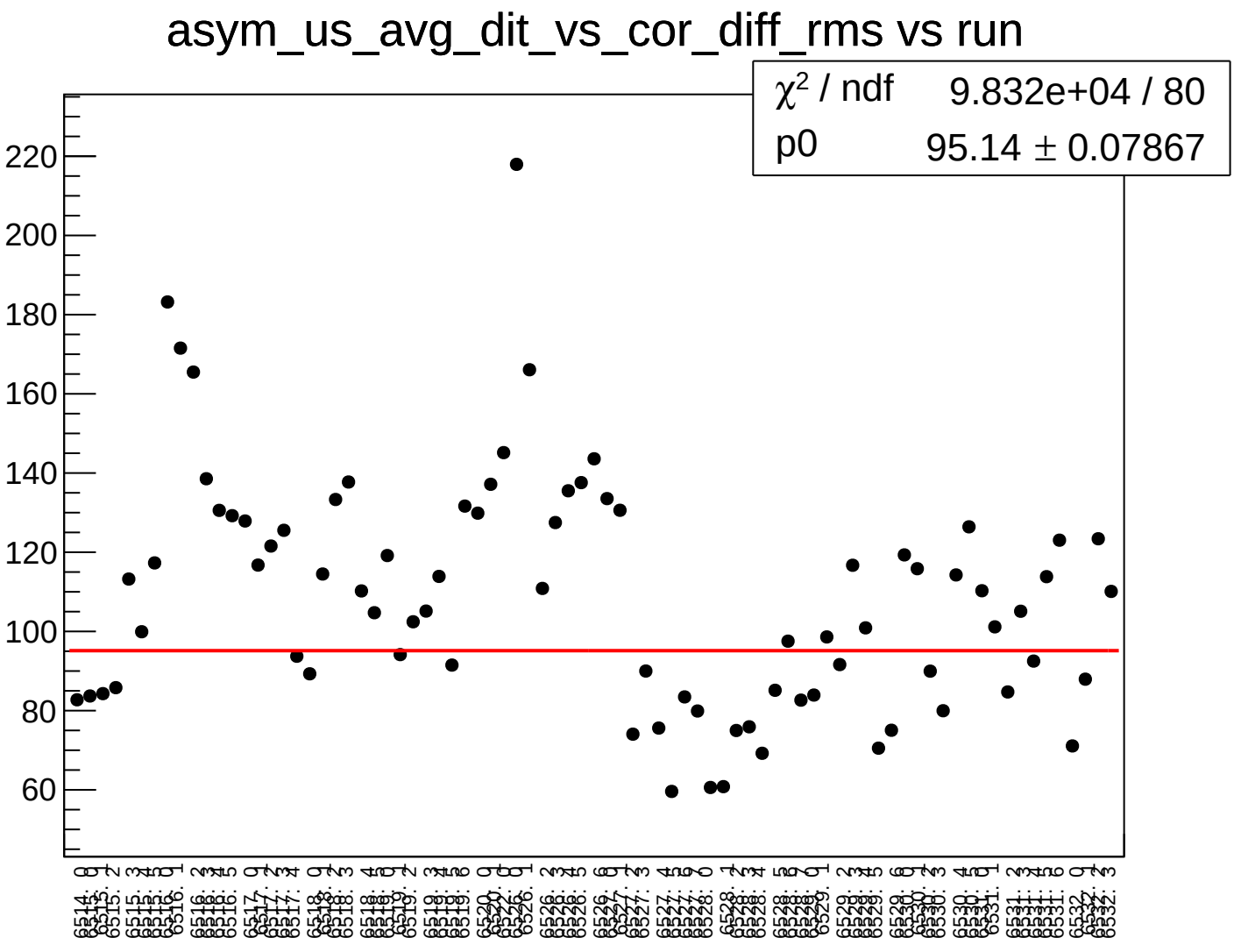

asym_us_avg_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.2 / 80
p0 −2.302e−14 ± 2.892e−14
pull
Entries 81
Mean 127.7
Std Dev 0

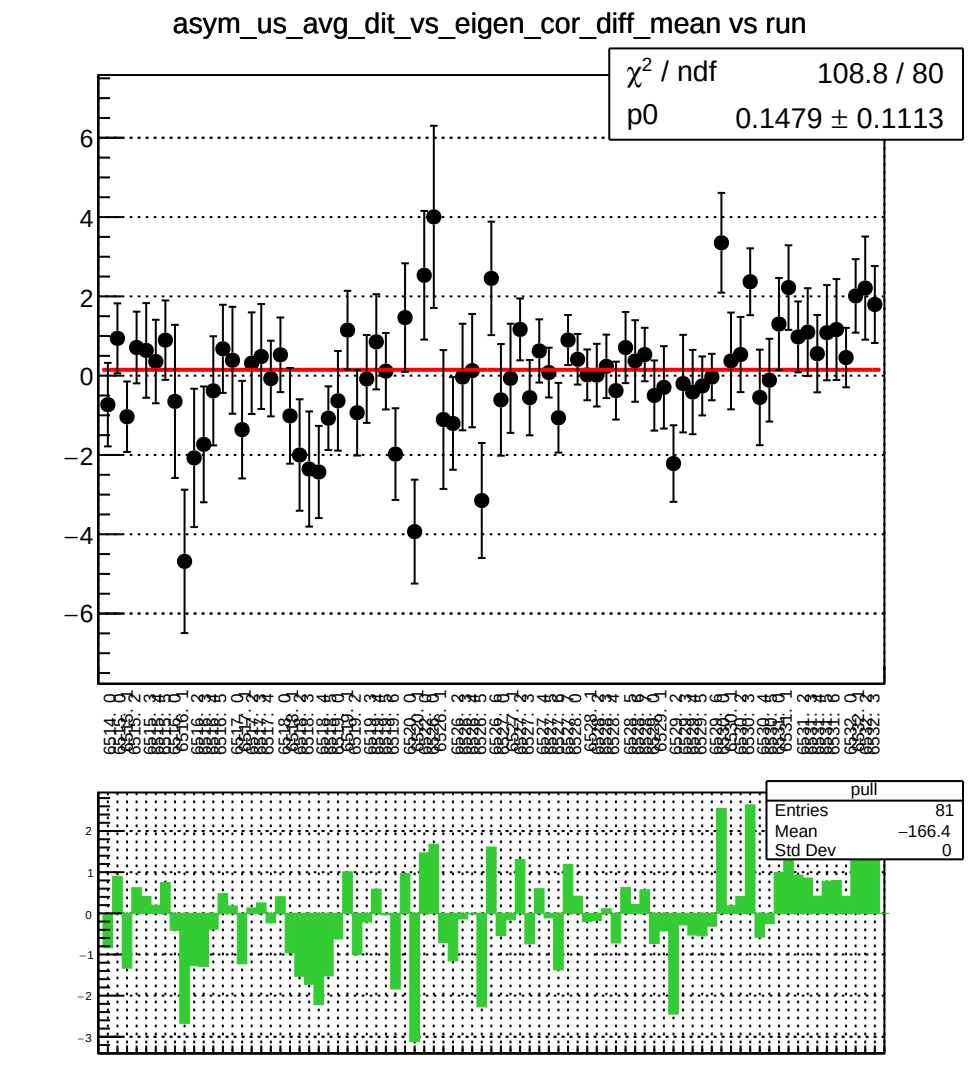

pull1D
Entries 81
Mean 0.02707
Std Dev 0.9759

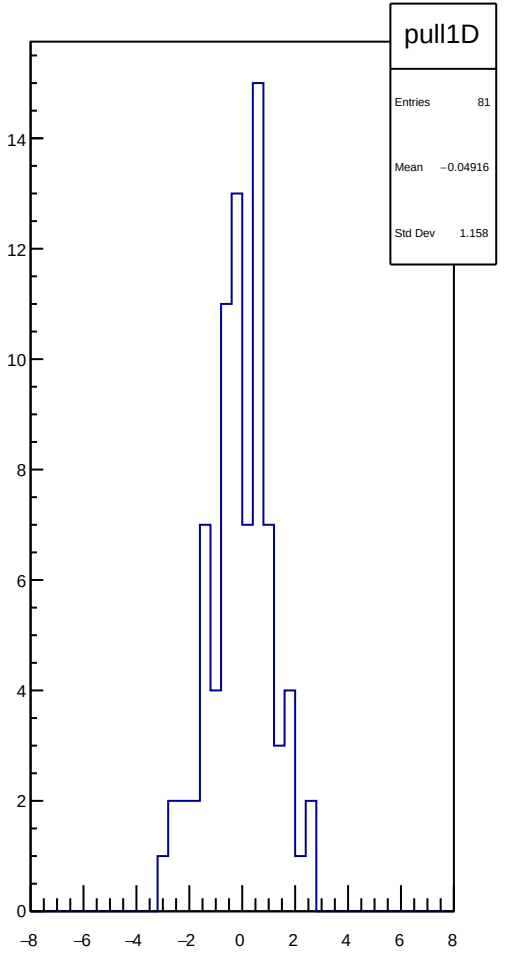

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.959e+05 / 80
p0 1.902e−11 ± 2.045e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

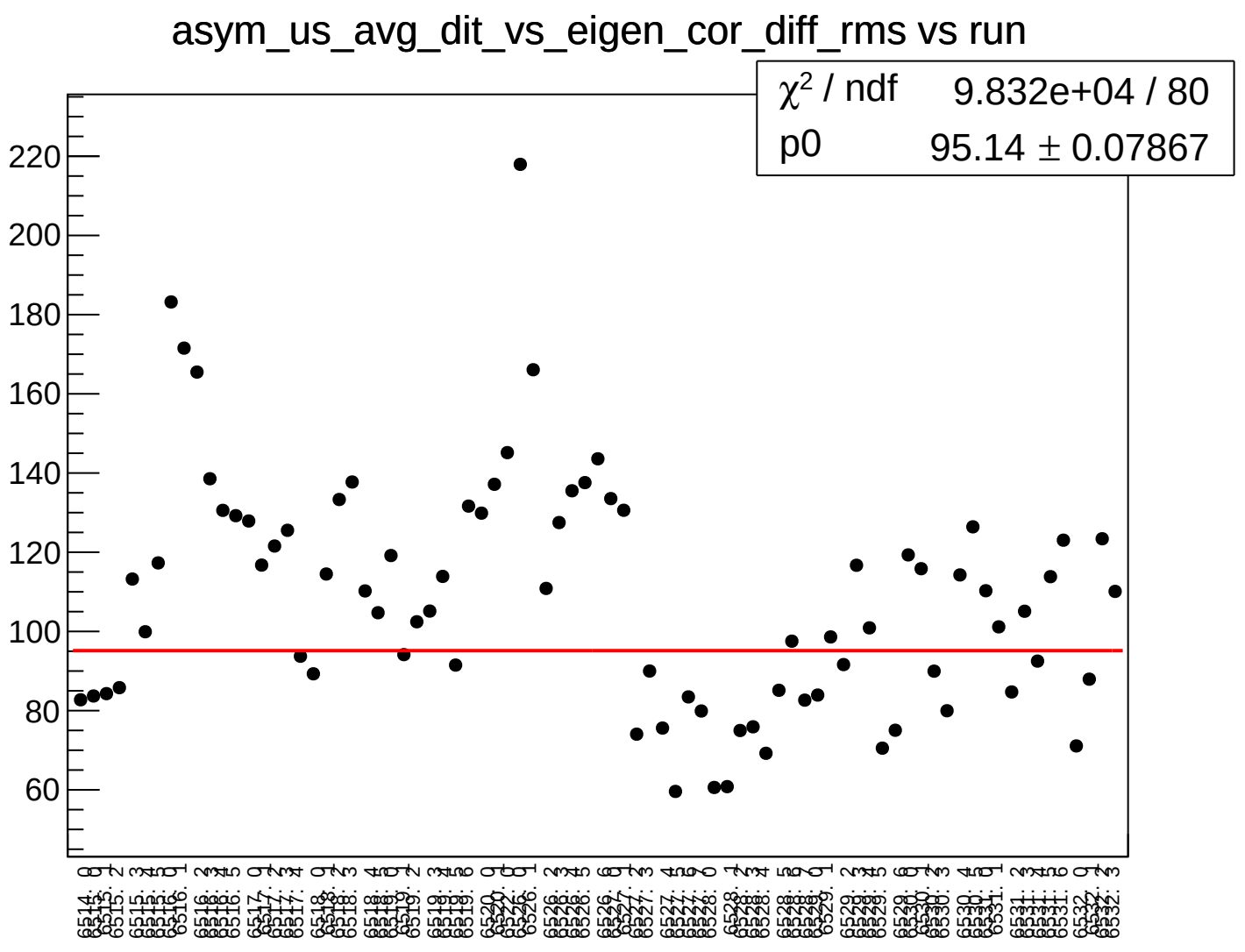

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 108.8 / 80
p0 0.1479 ± 0.1113
pull
Entries 81
Mean −166.4
Std Dev 0

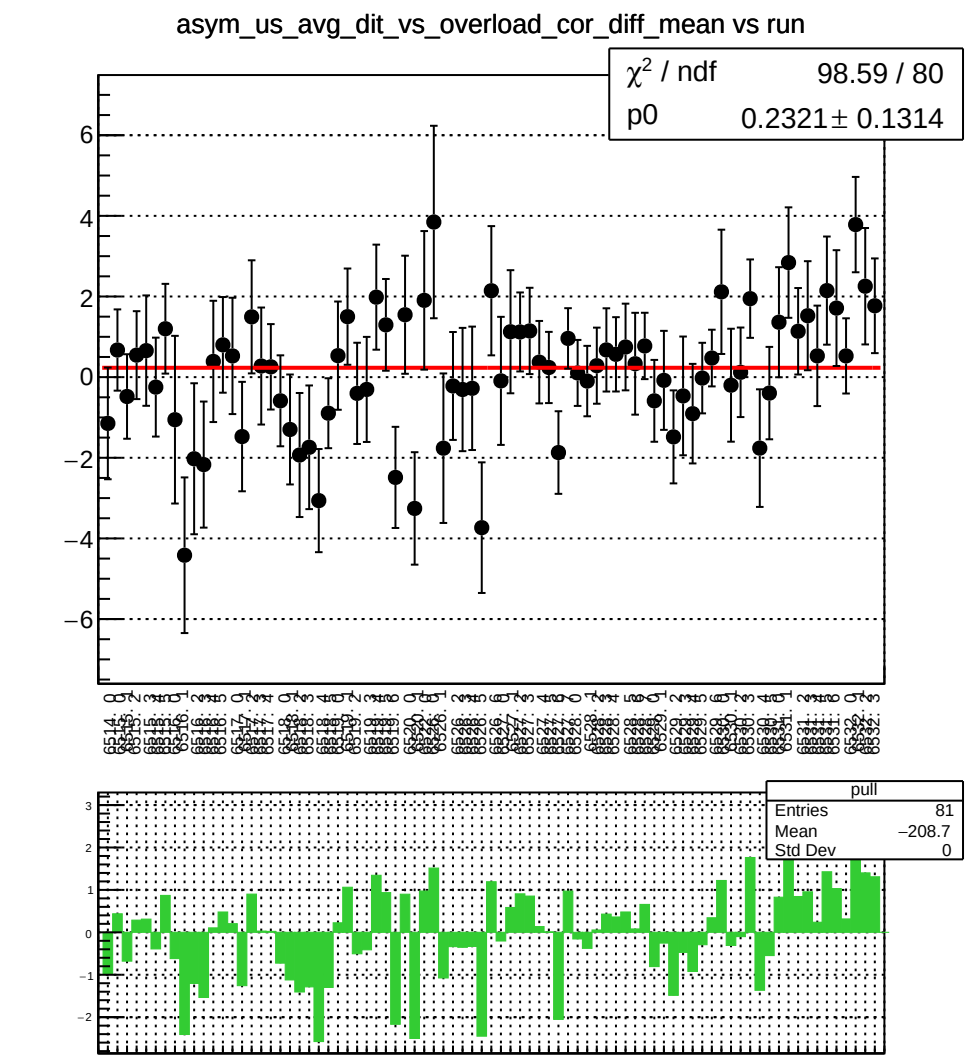

pull1D
Entries 81
Mean −0.04916
Std Dev 1.158

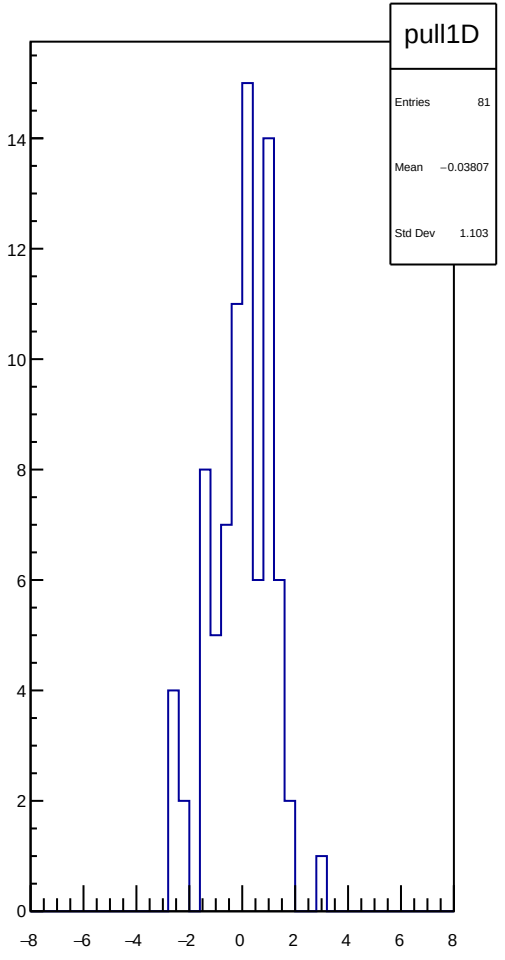

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9.832e+04 / 80
p0 95.14 ± 0.07867
220
200
180
160
140
120
100
80
60

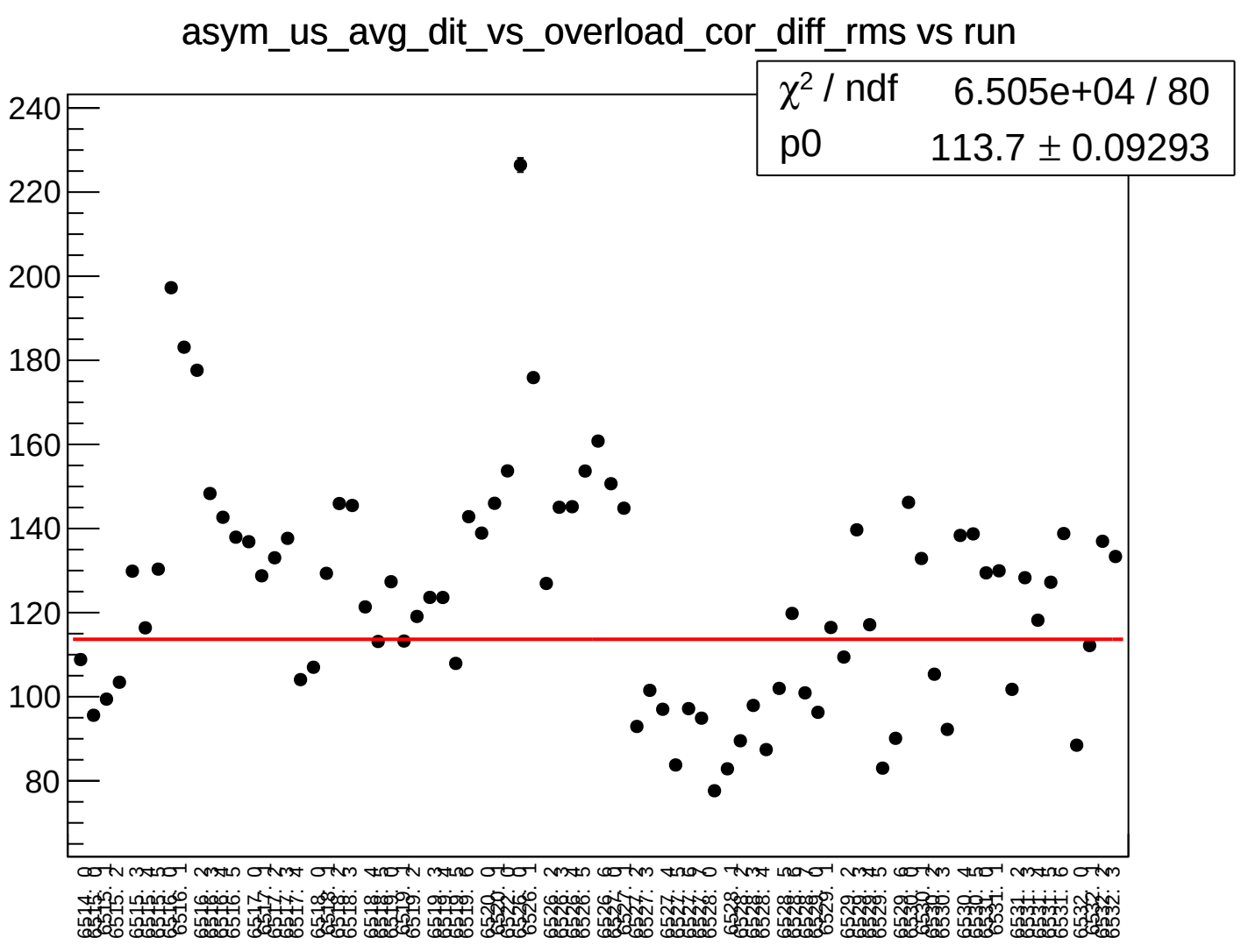

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.8 / 80
p0 0.1479 ± 0.1113
pull
Entries 81
Mean −166.4
Std Dev 0

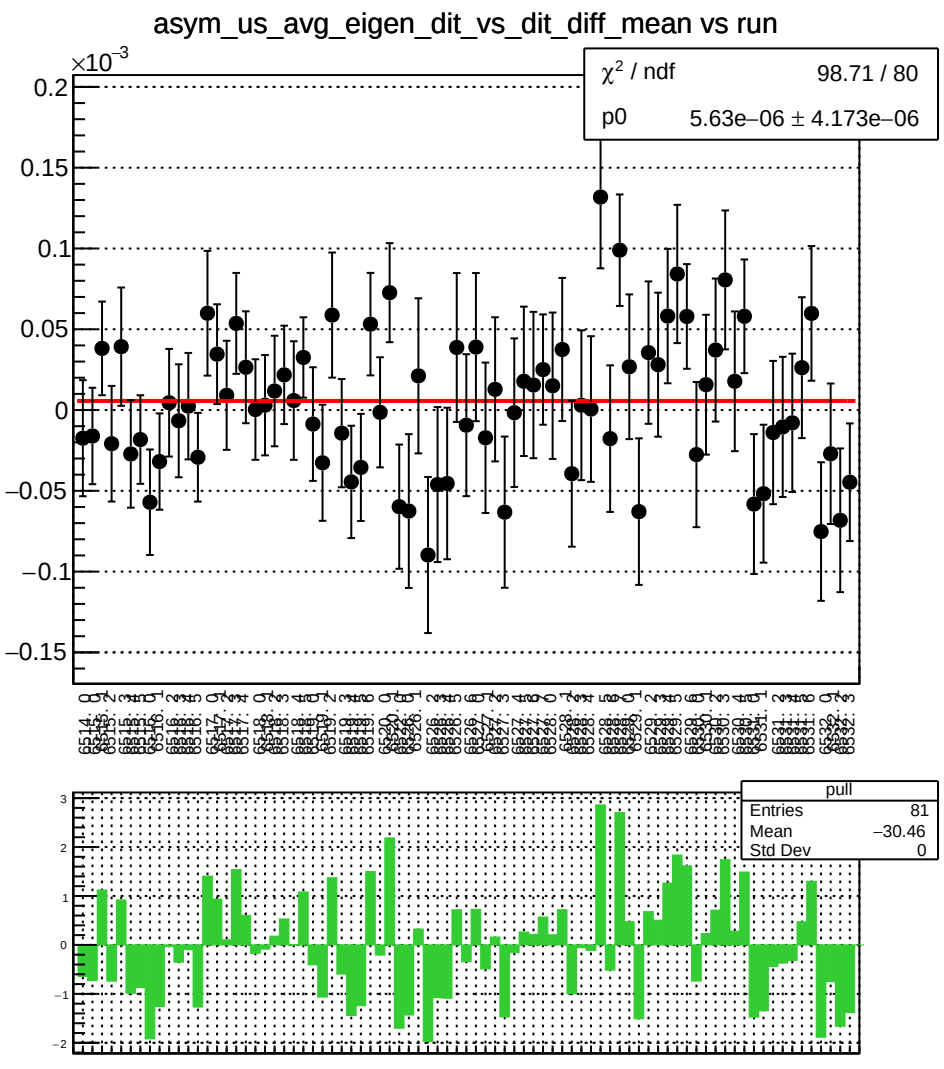

pull1D
Entries 81
Mean −0.04916
Std Dev 1.158

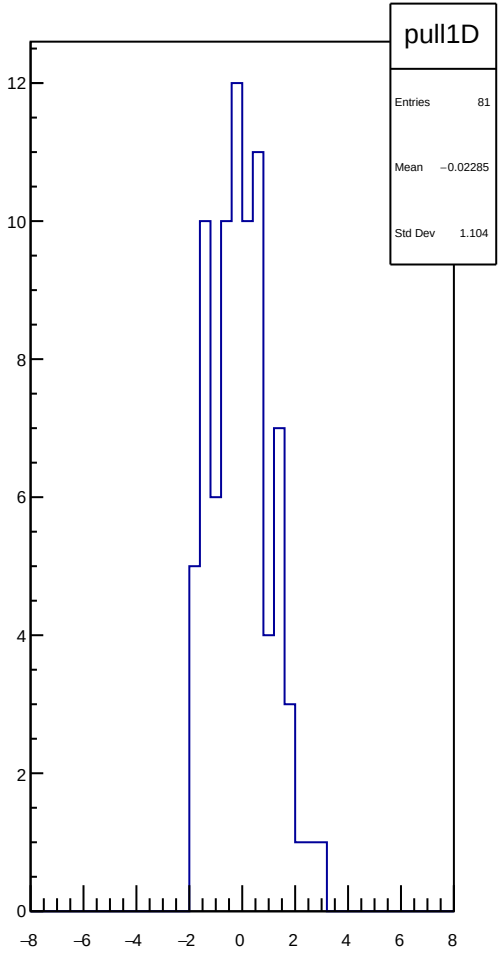

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.832e+04 / 80
p0 95.14 ± 0.07867
220
200
180
160
140
120
100
80
60

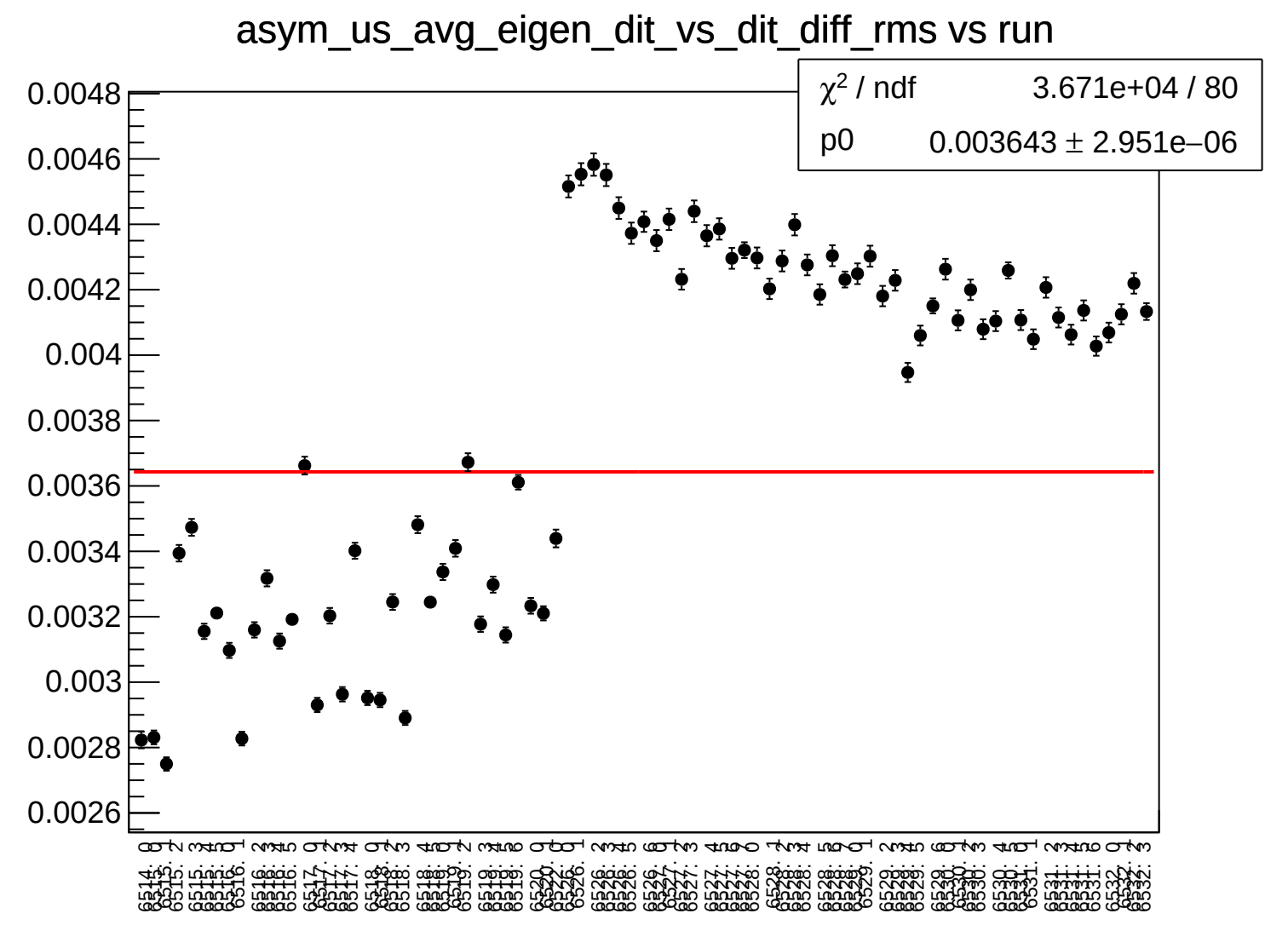

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 98.59 / 80
p0 0.2321 ± 0.1314
pull
Entries 81
Mean −208.7
Std Dev 0

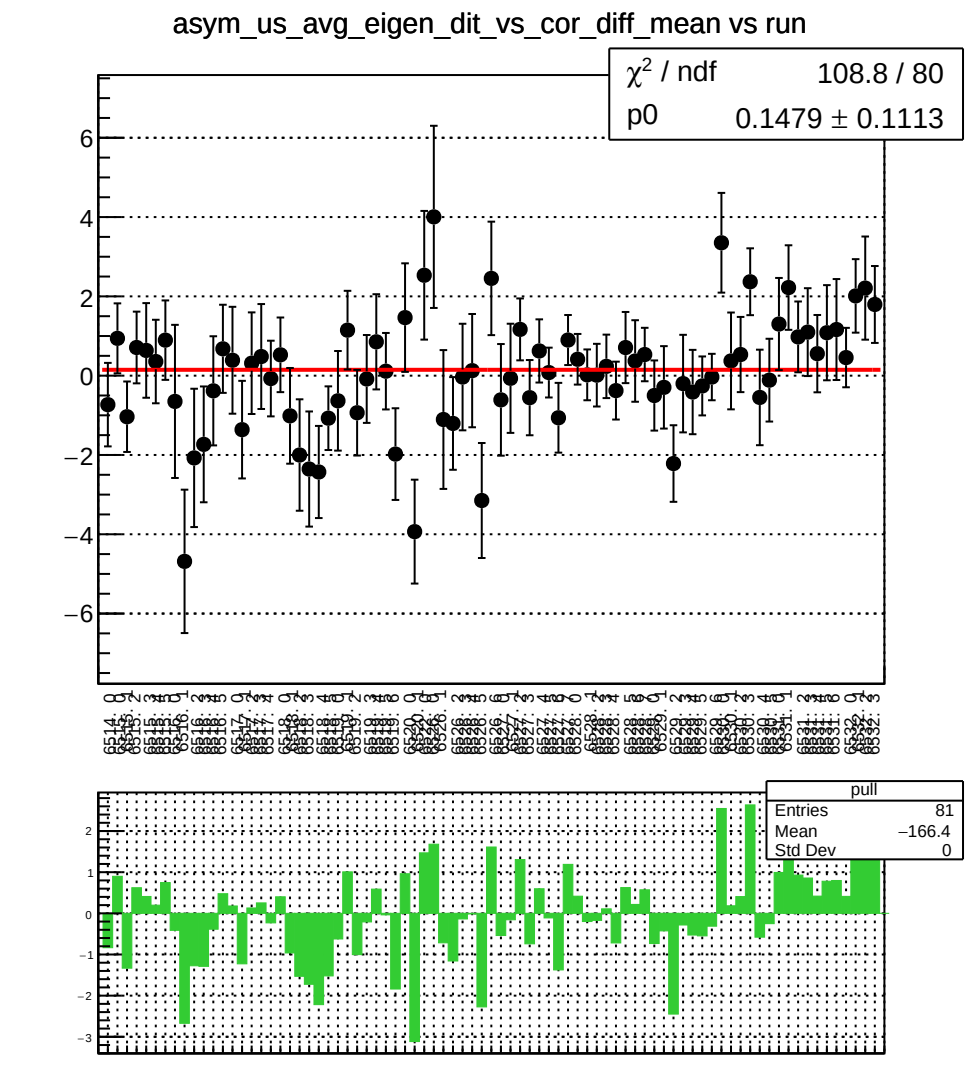

pull1D
Entries 81
Mean −0.03807
Std Dev 1.103

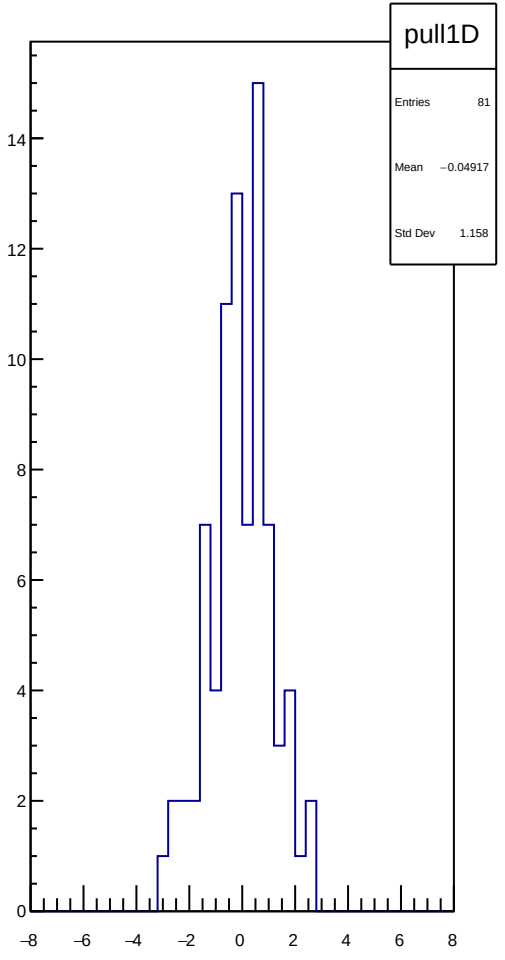

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 6.505e+04 / 80
p0 113.7 ± 0.09293
240
220
200
180
160
140
120
100
80

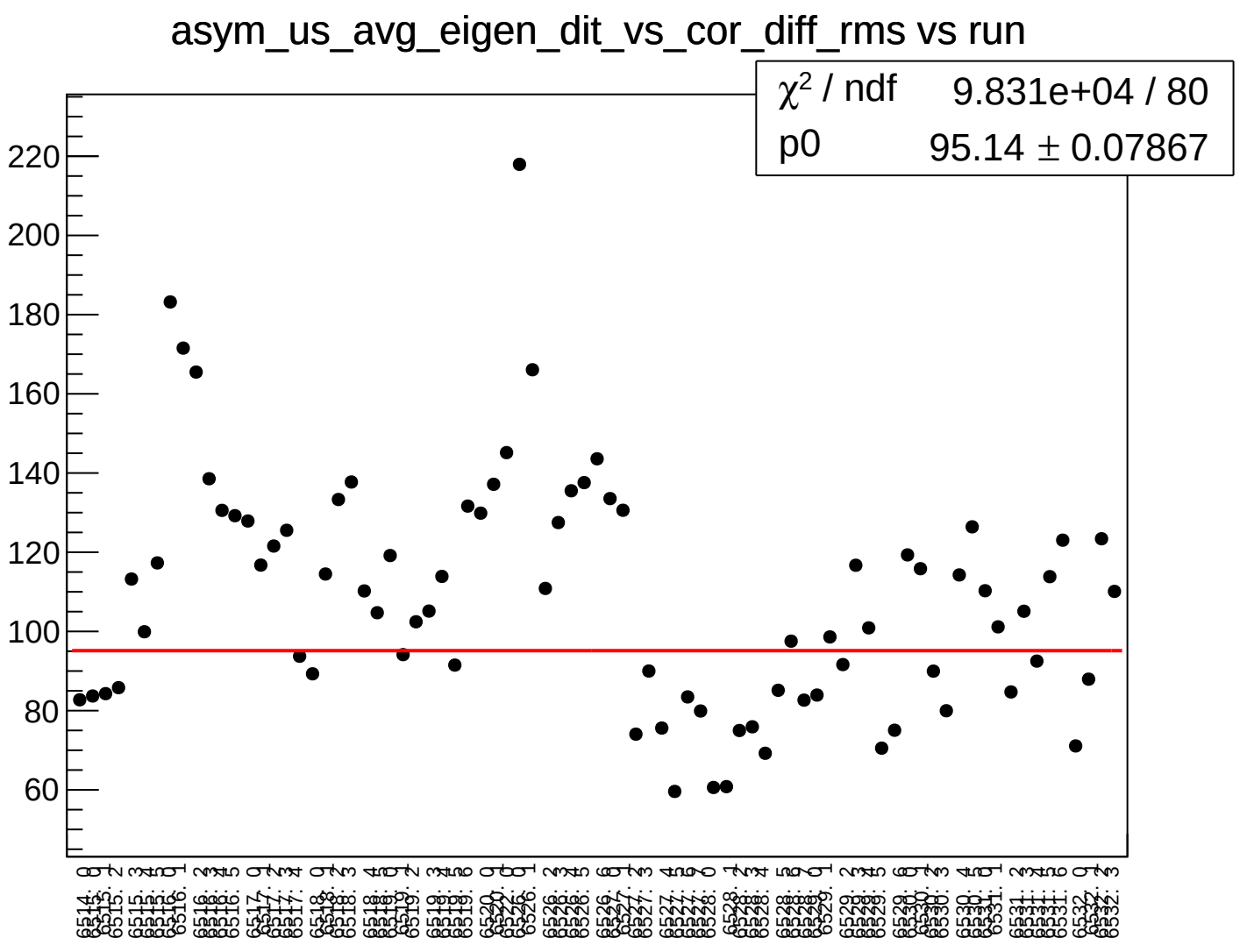

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.71 / 80
p0 5.63e−06 ± 4.173e−06
pull
Entries 81
Mean −30.46
Std Dev 0

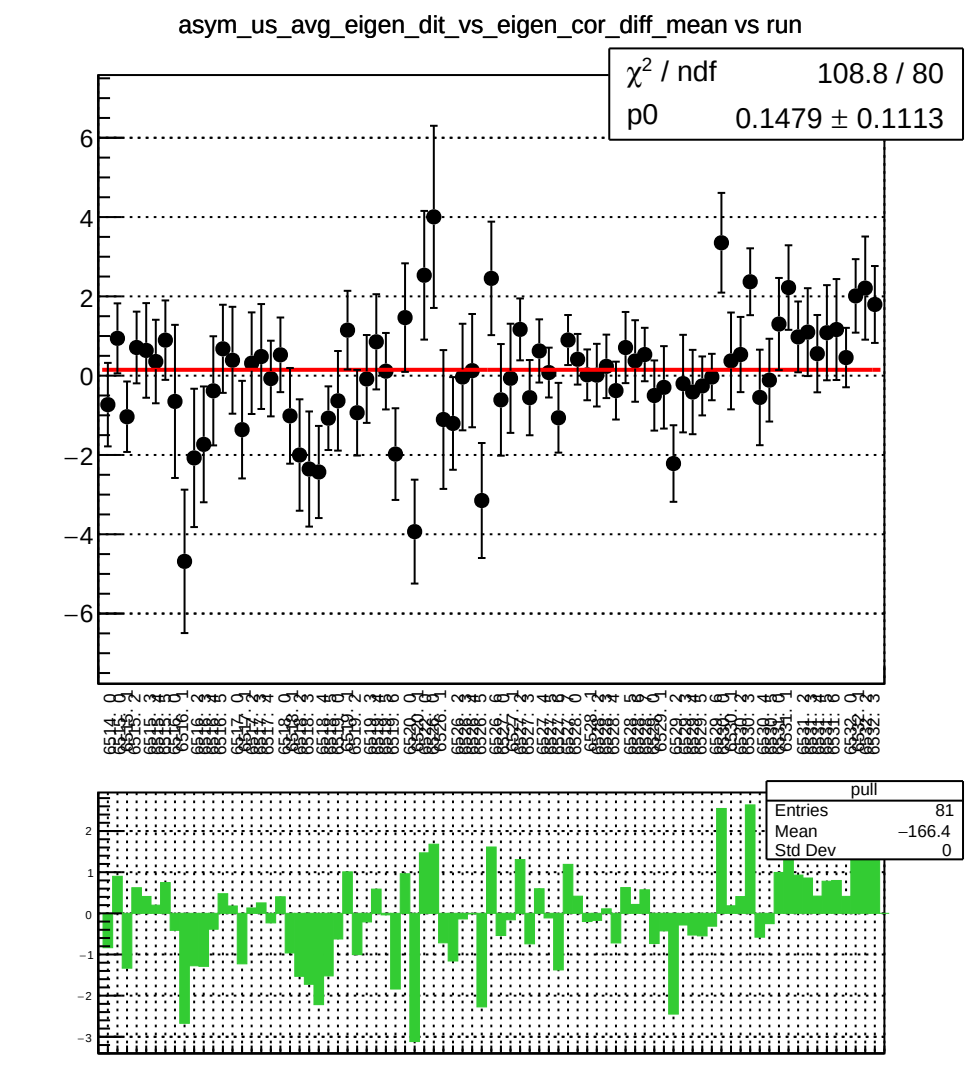

pull1D
Entries 81
Mean −0.02285
Std Dev 1.104

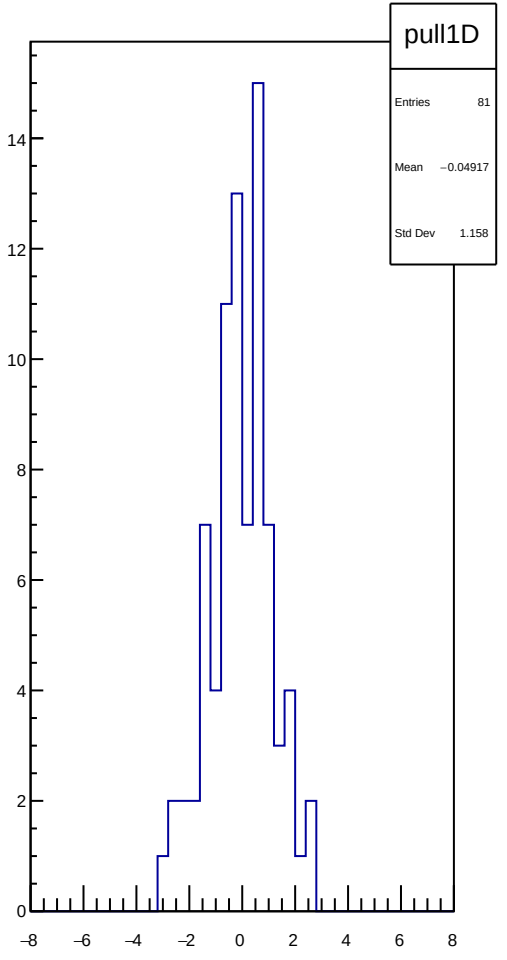

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.671e+04 / 80
p0 0.003643 ± 2.951e−06
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

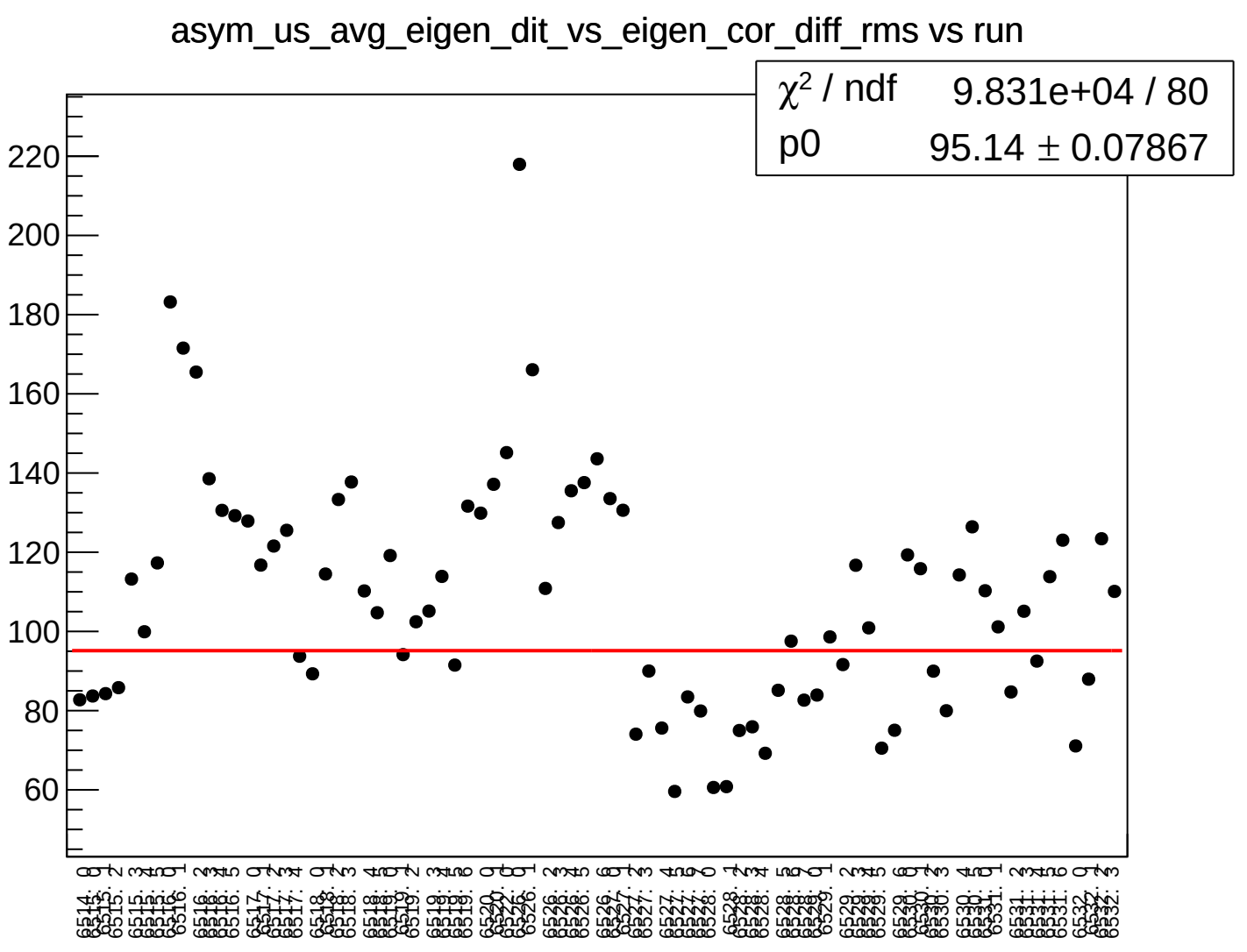

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 108.8 / 80
p0 0.1479 ± 0.1113
pull
Entries 81
Mean −166.4
Std Dev 0

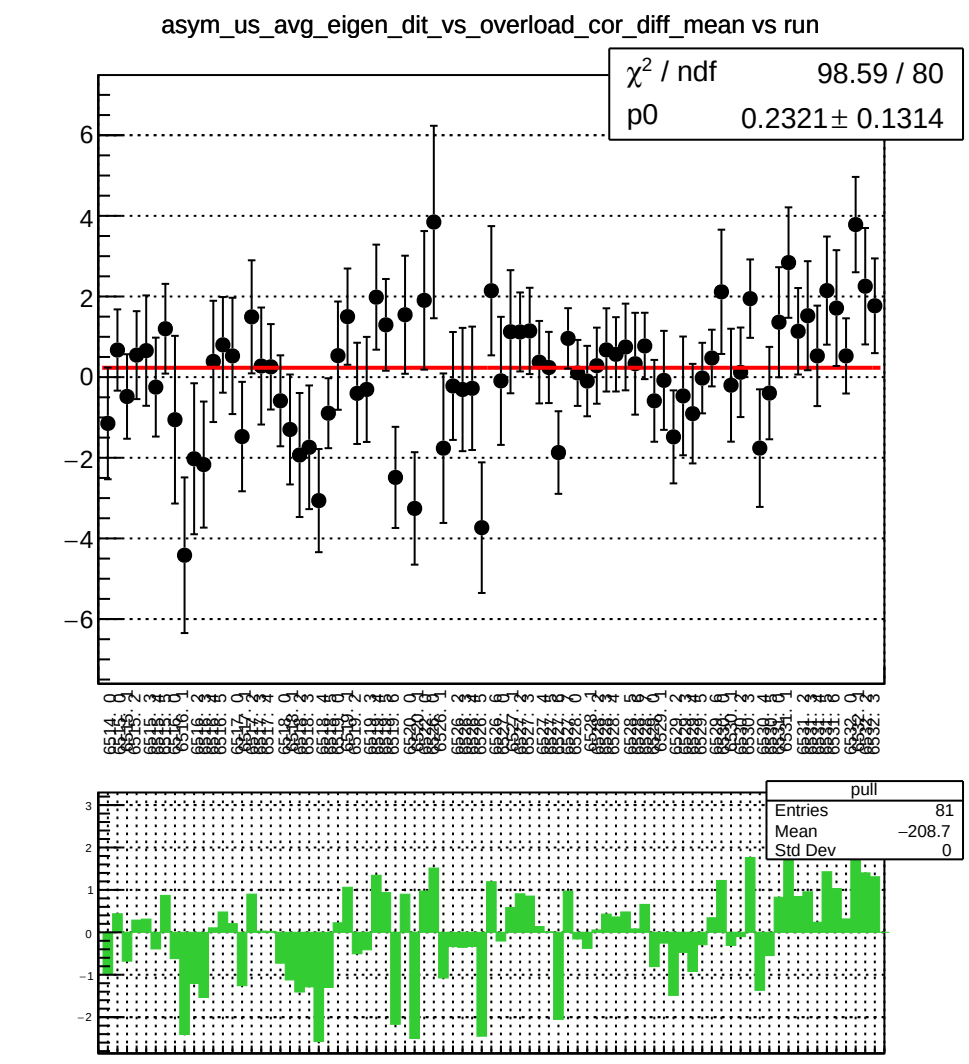

pull1D
Entries 81
Mean −0.04917
Std Dev 1.158

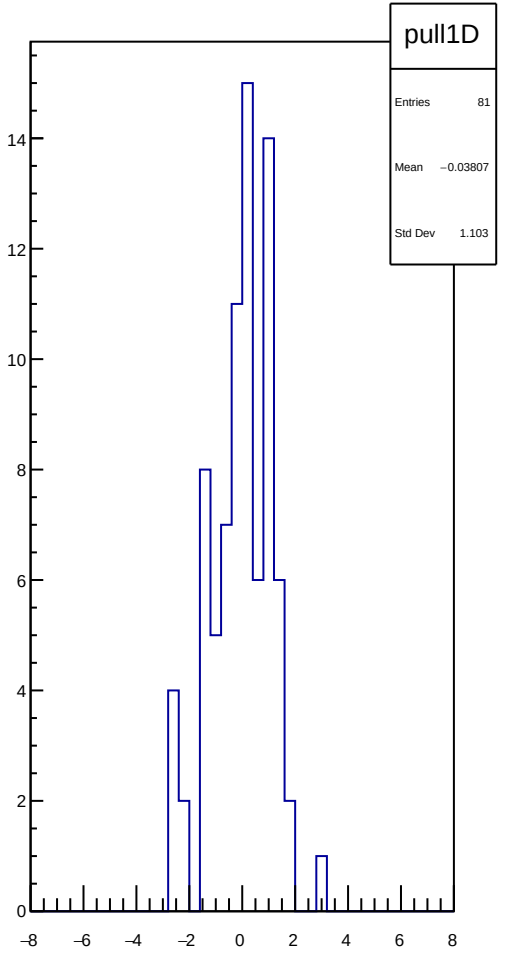

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.831e+04 / 80
p0 95.14 ± 0.07867
220
200
180
160
140
120
100
80
60

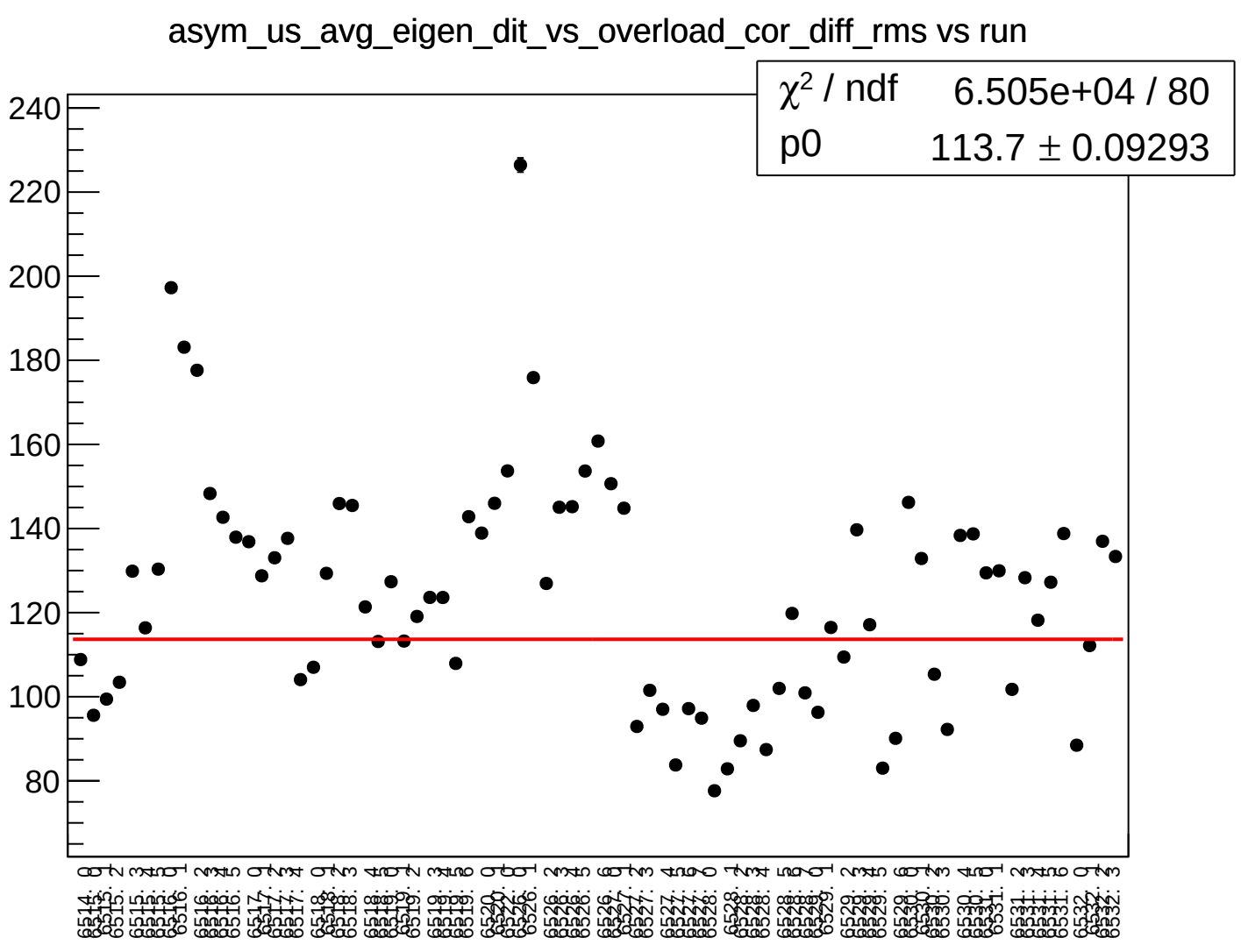

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.8 / 80
p0 0.1479 ± 0.1113
pull
Entries 81
Mean −166.4
Std Dev 0

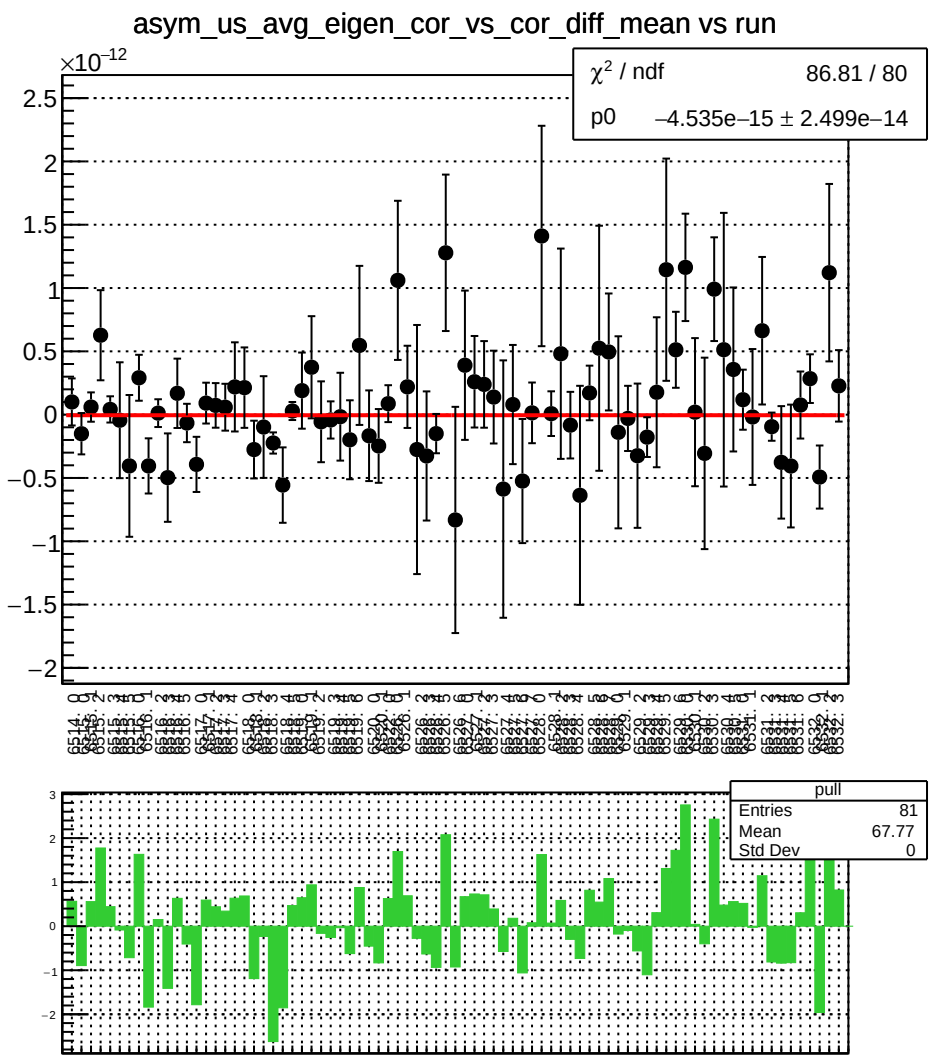

pull1D
Entries 81
Mean −0.04917
Std Dev 1.158

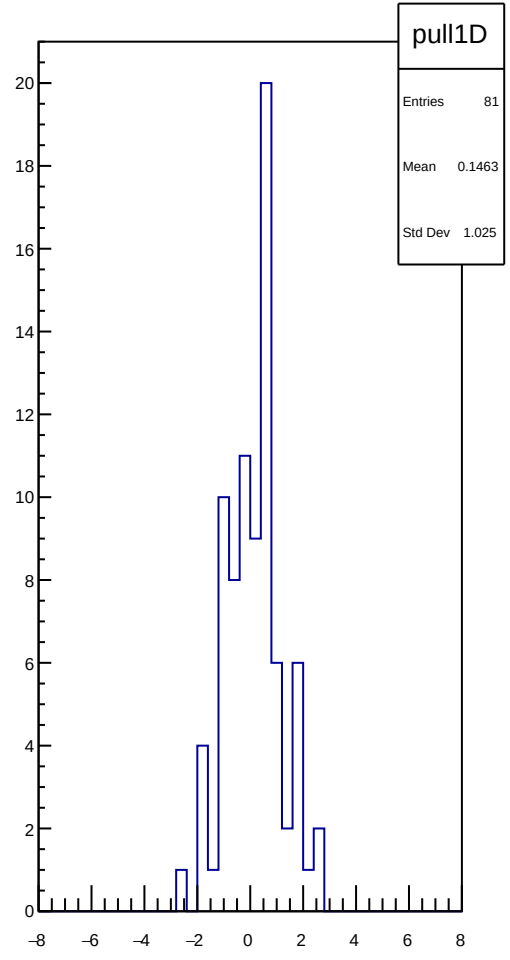

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.831e+04 / 80
p0 95.14 ± 0.07867
220
200
180
160
140
120
100
80
60

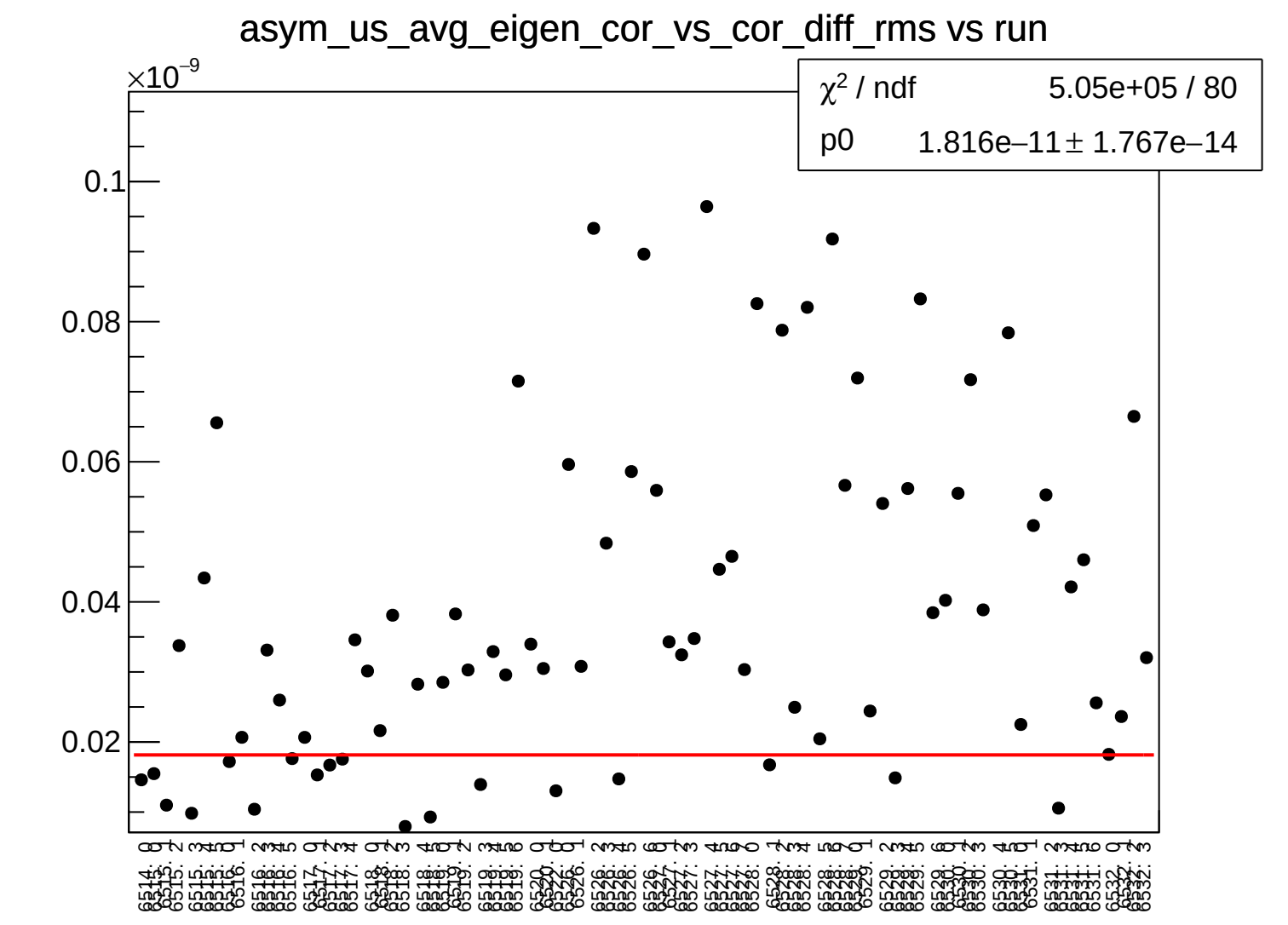

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 98.59 / 80
p0 0.2321± 0.1314
pull
Entries 81
Mean −208.7
Std Dev 0

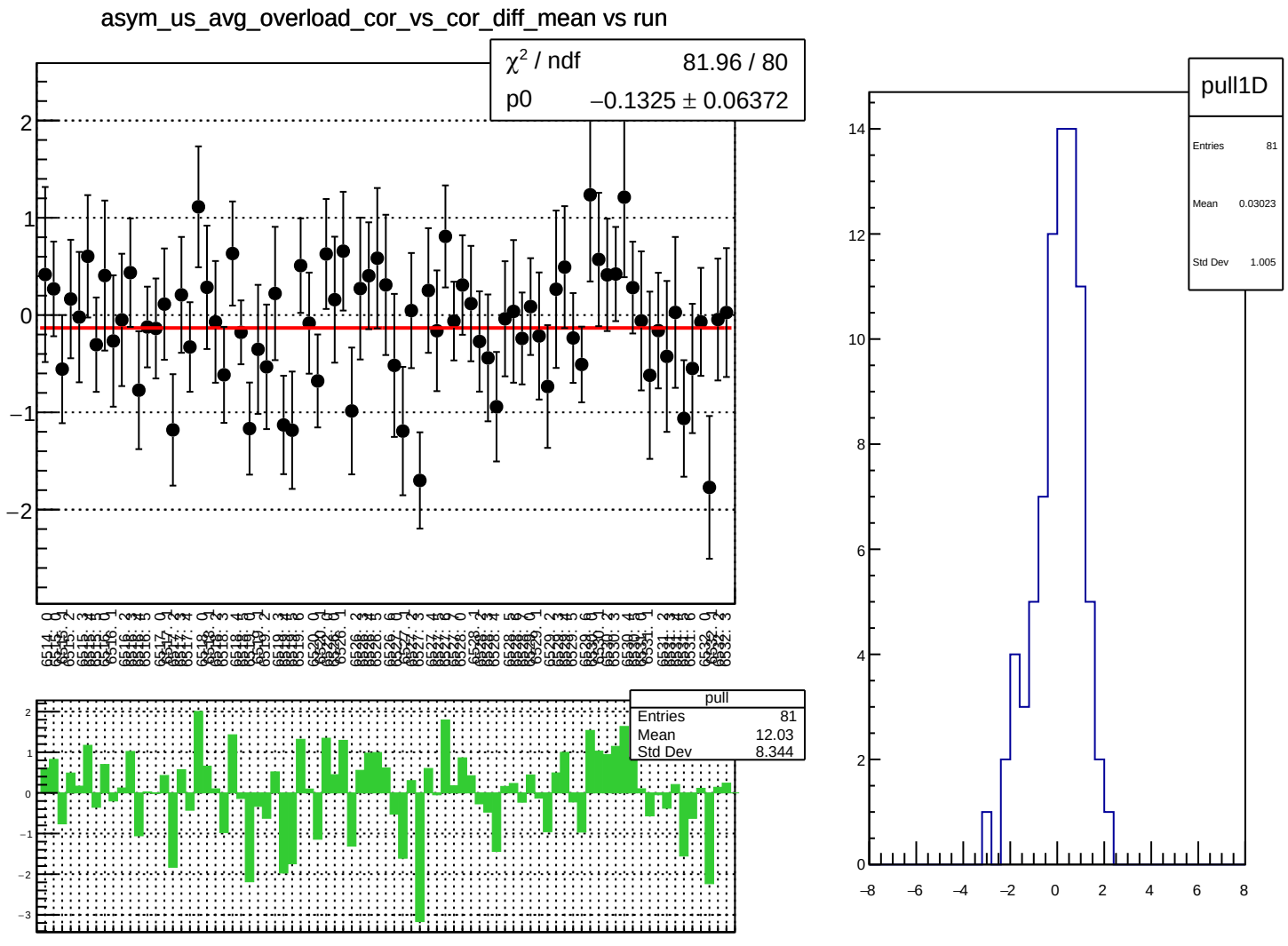

pull1D
Entries 81
Mean −0.03807
Std Dev 1.103

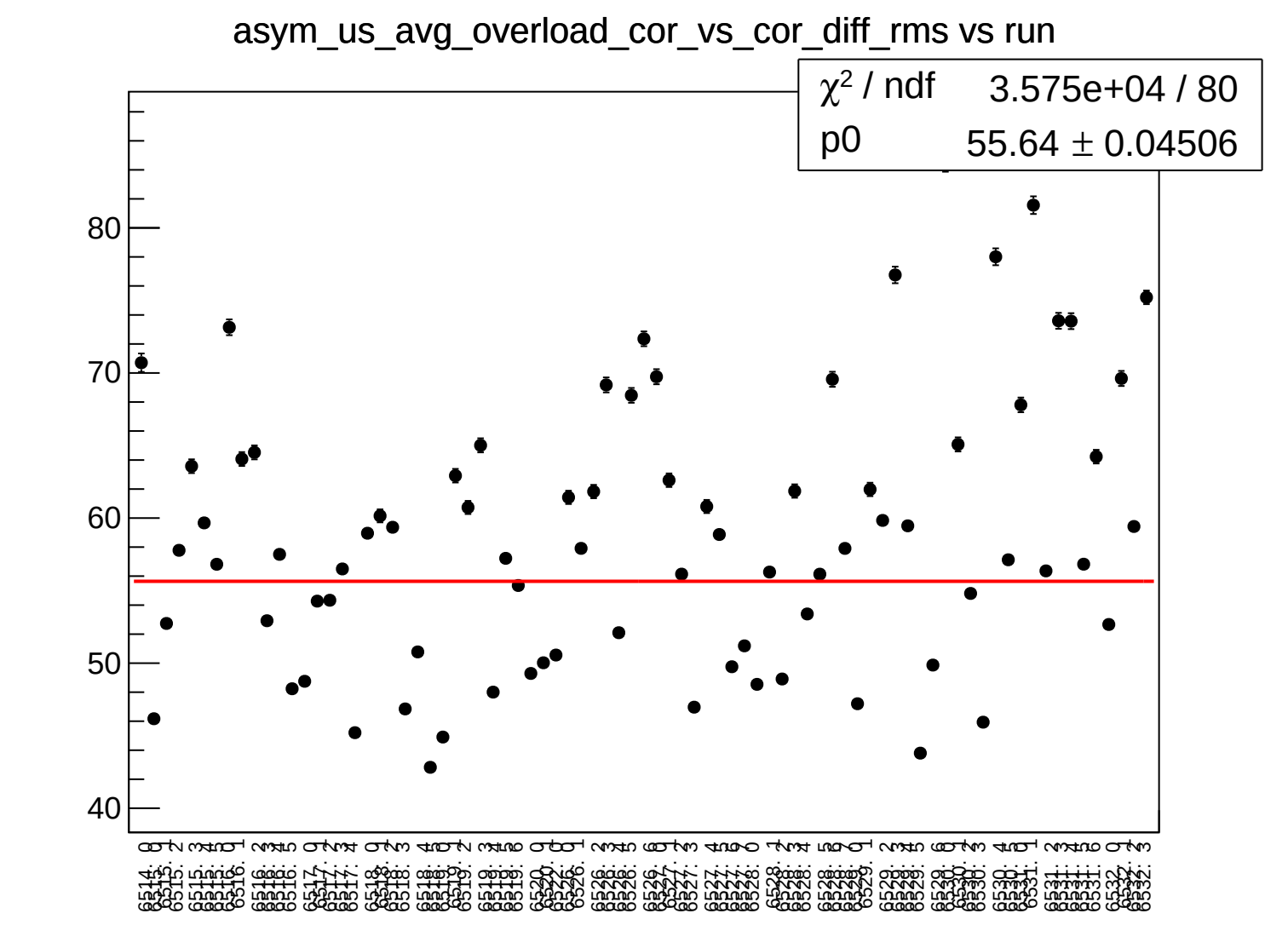

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 6.505e+04 / 80
p0 113.7 ± 0.09293
240
220
200
180
160
140
120
100
80

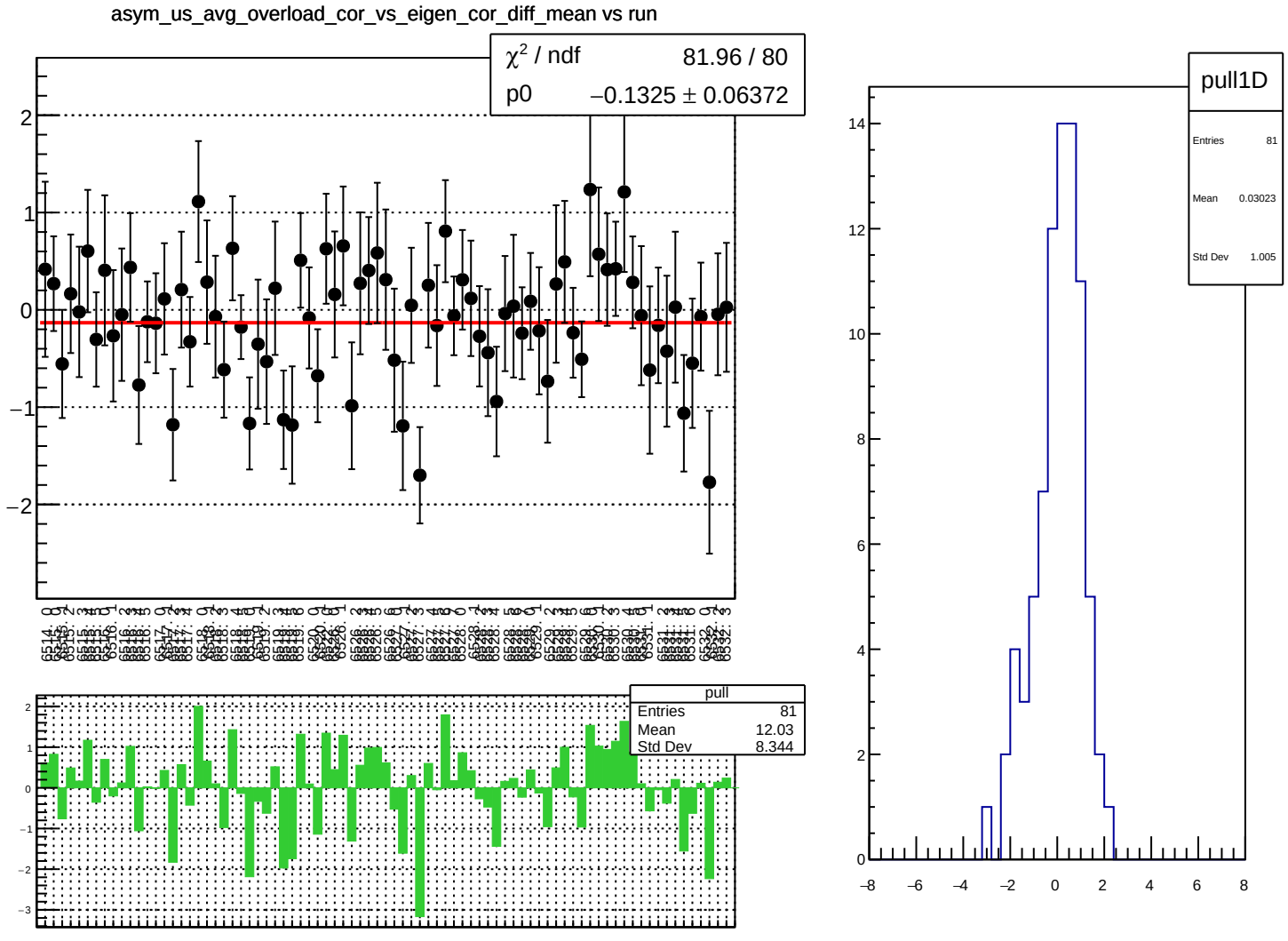

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.81 / 80
p0 −4.535e−15 ± 2.499e−14
pull
Entries 81
Mean 67.77
Std Dev 0

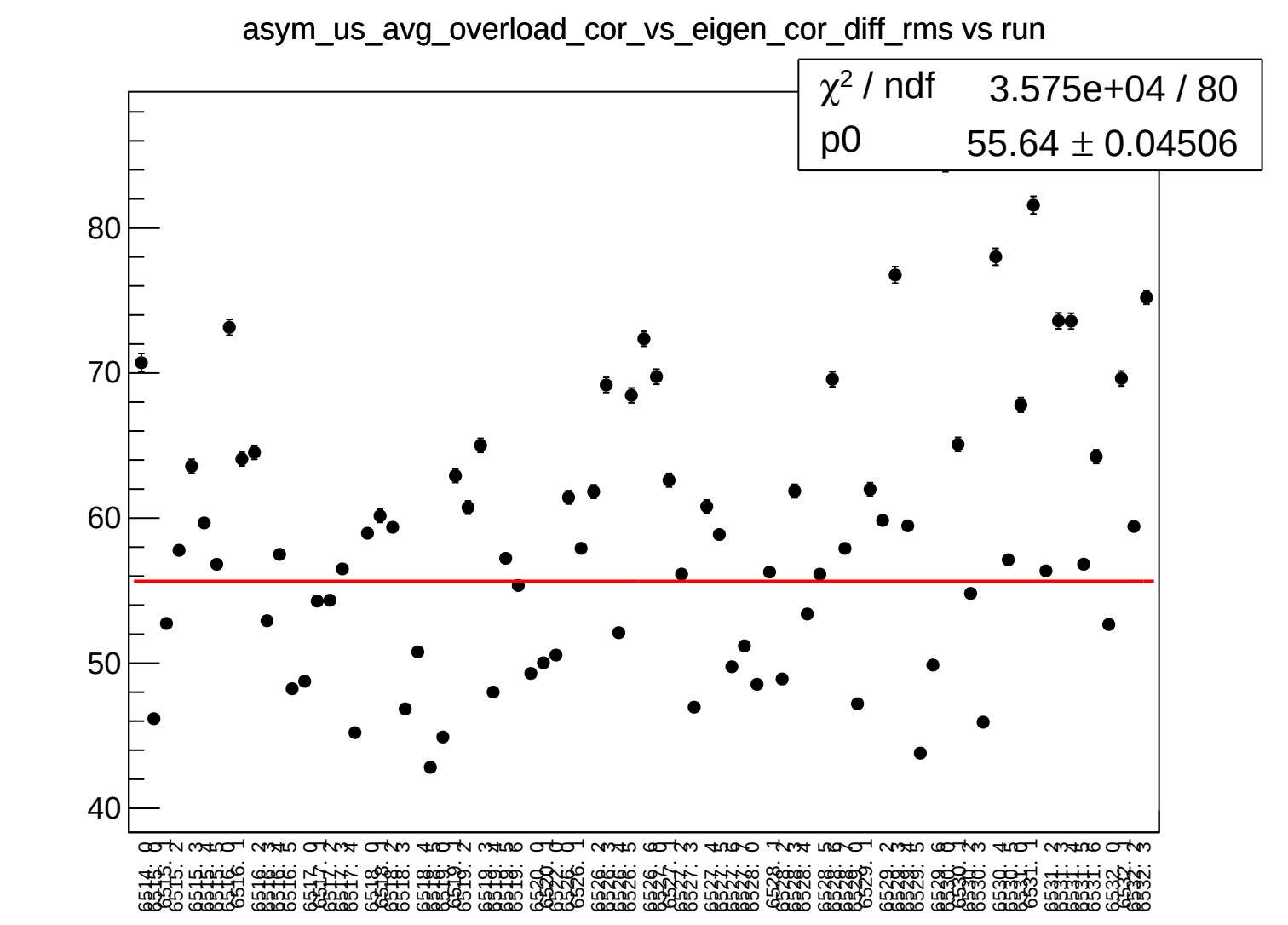

pull1D
Entries 81
Mean 0.1463
Std Dev 1.025

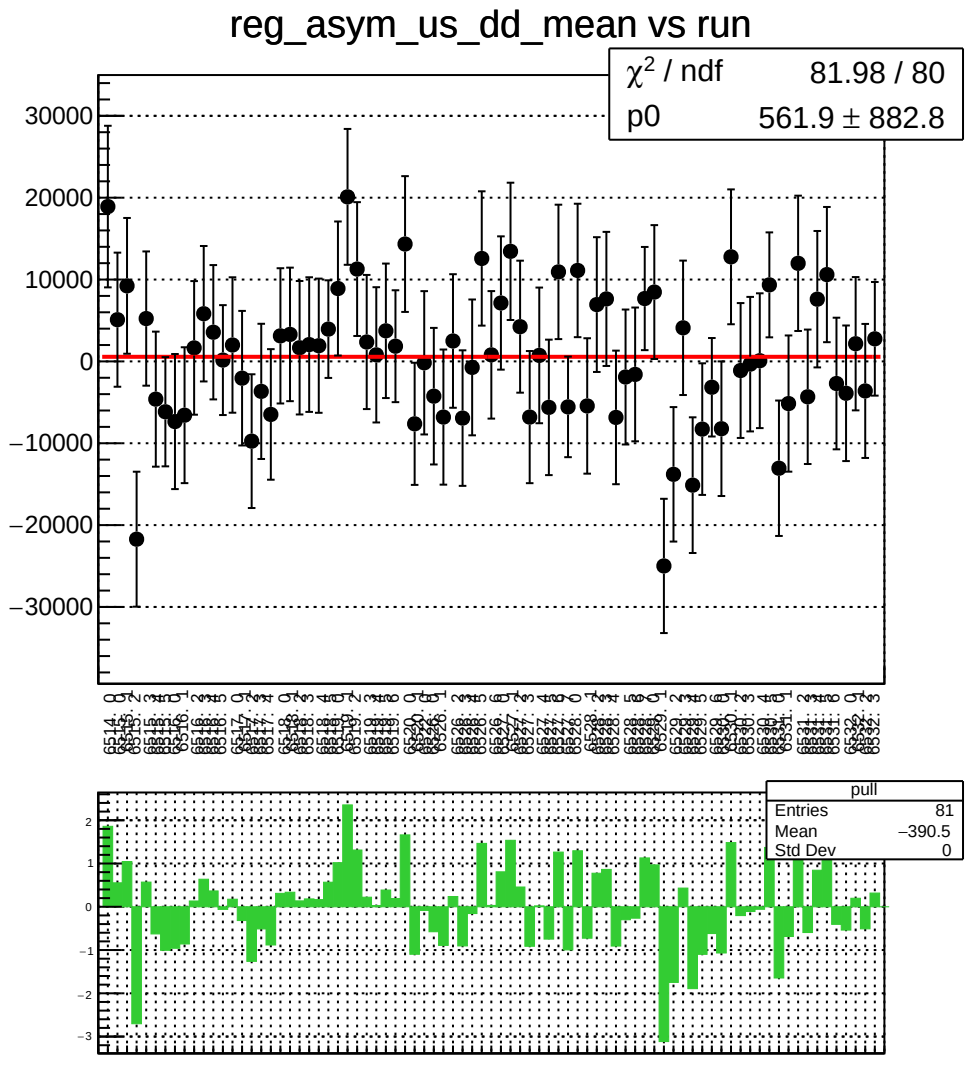

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.05e+05 / 80
p0 1.816e−11 ± 1.767e−14
0.1
0.08
0.06
0.04
0.02

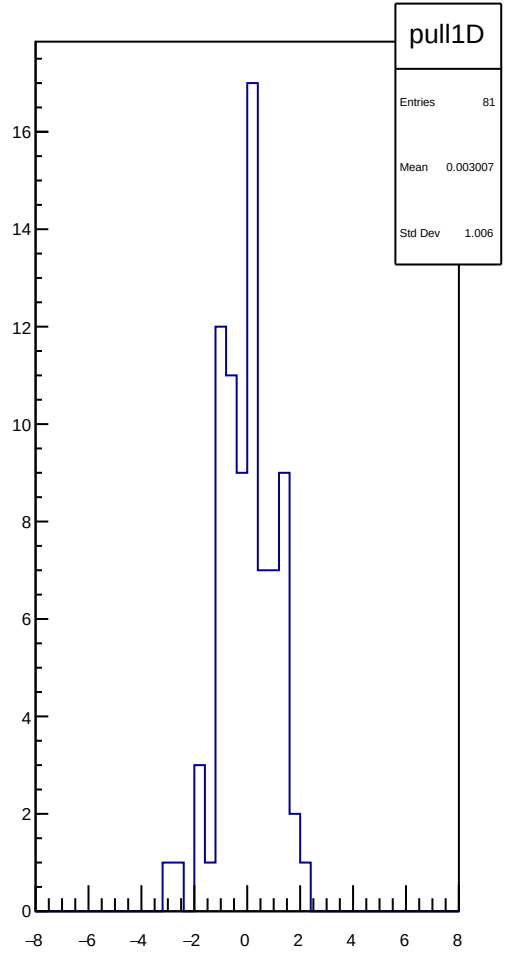

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 81.96 / 80
p0 −0.1325 ± 0.06372
pull
Entries 81
Mean 12.03
Std Dev 8.344
pull1D
Entries 81
Mean 0.03023
Std Dev 1.005

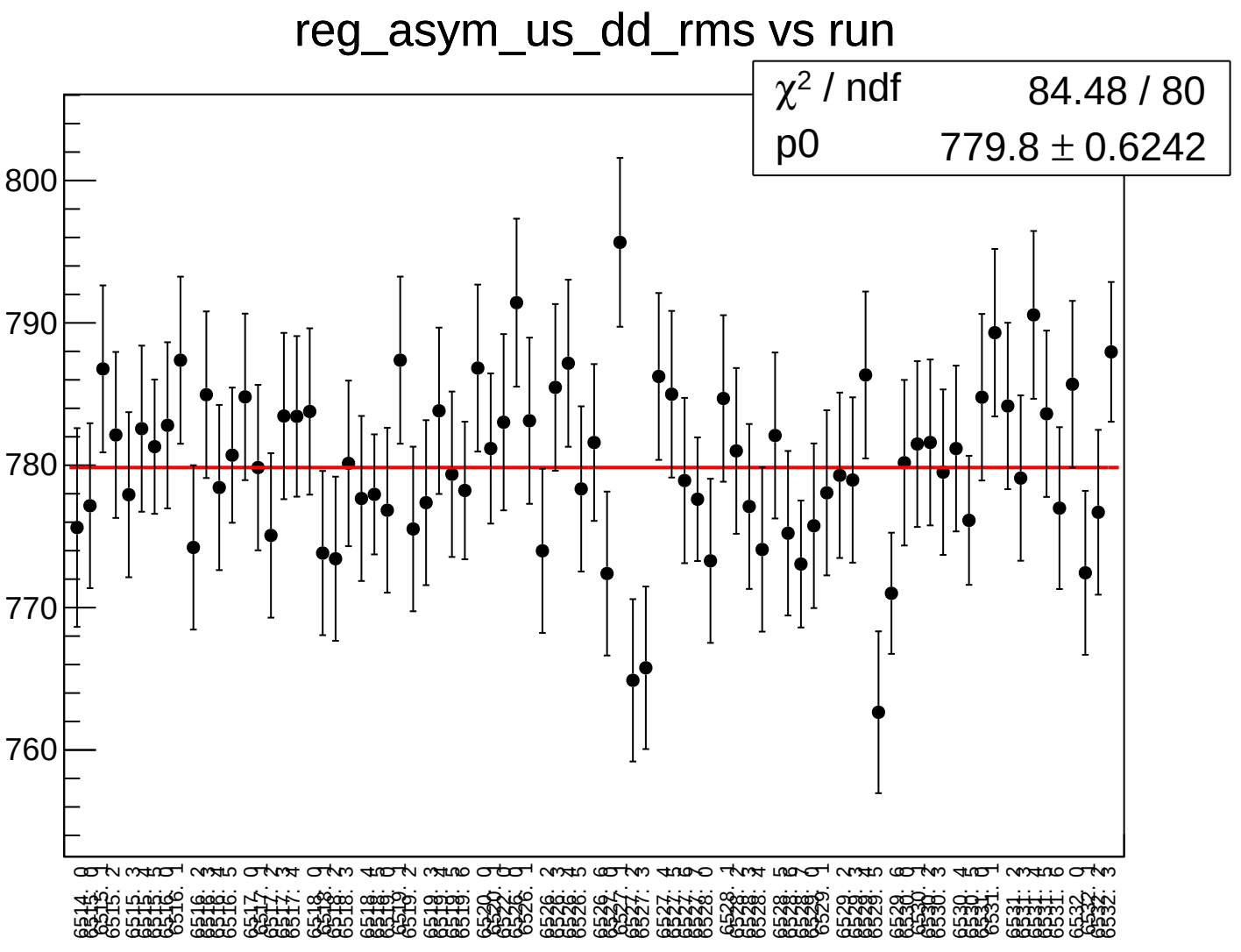

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 3.575e+04 / 80
p0 55.64 ± 0.04506
80
70
60
50
40

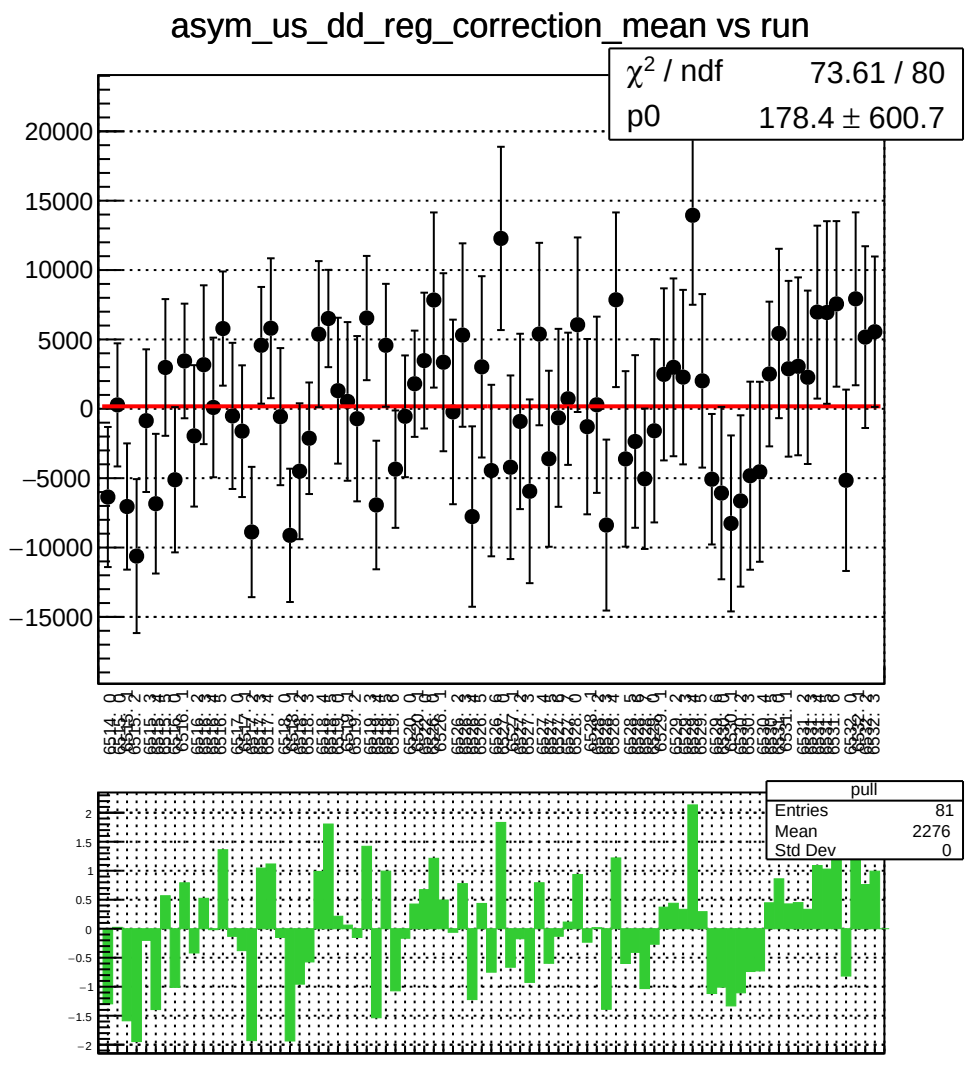

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.96 / 80
p0 −0.1325 ± 0.06372
pull
Entries 81
Mean 12.03
Std Dev 8.344
pull1D
Entries 81
Mean 0.03023
Std Dev 1.005

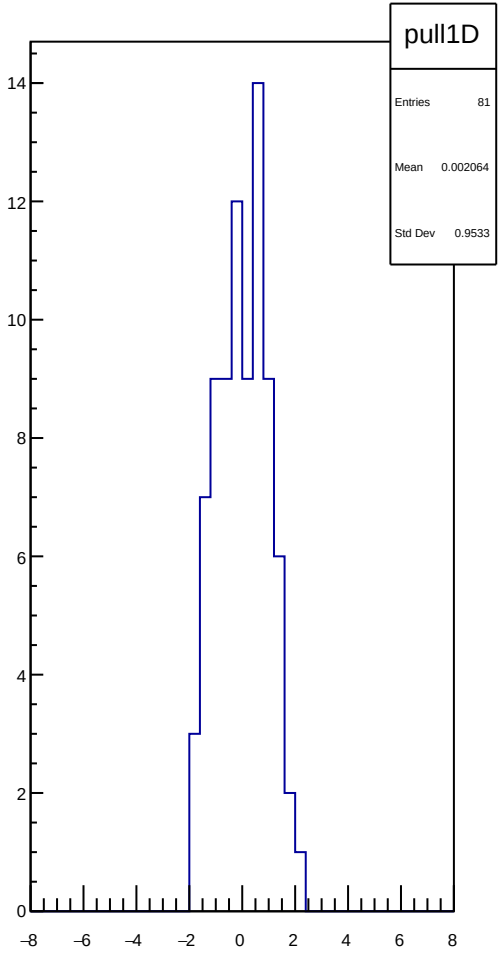

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.575e+04 / 80
p0 55.64 ± 0.04506
80
70
60
50
40

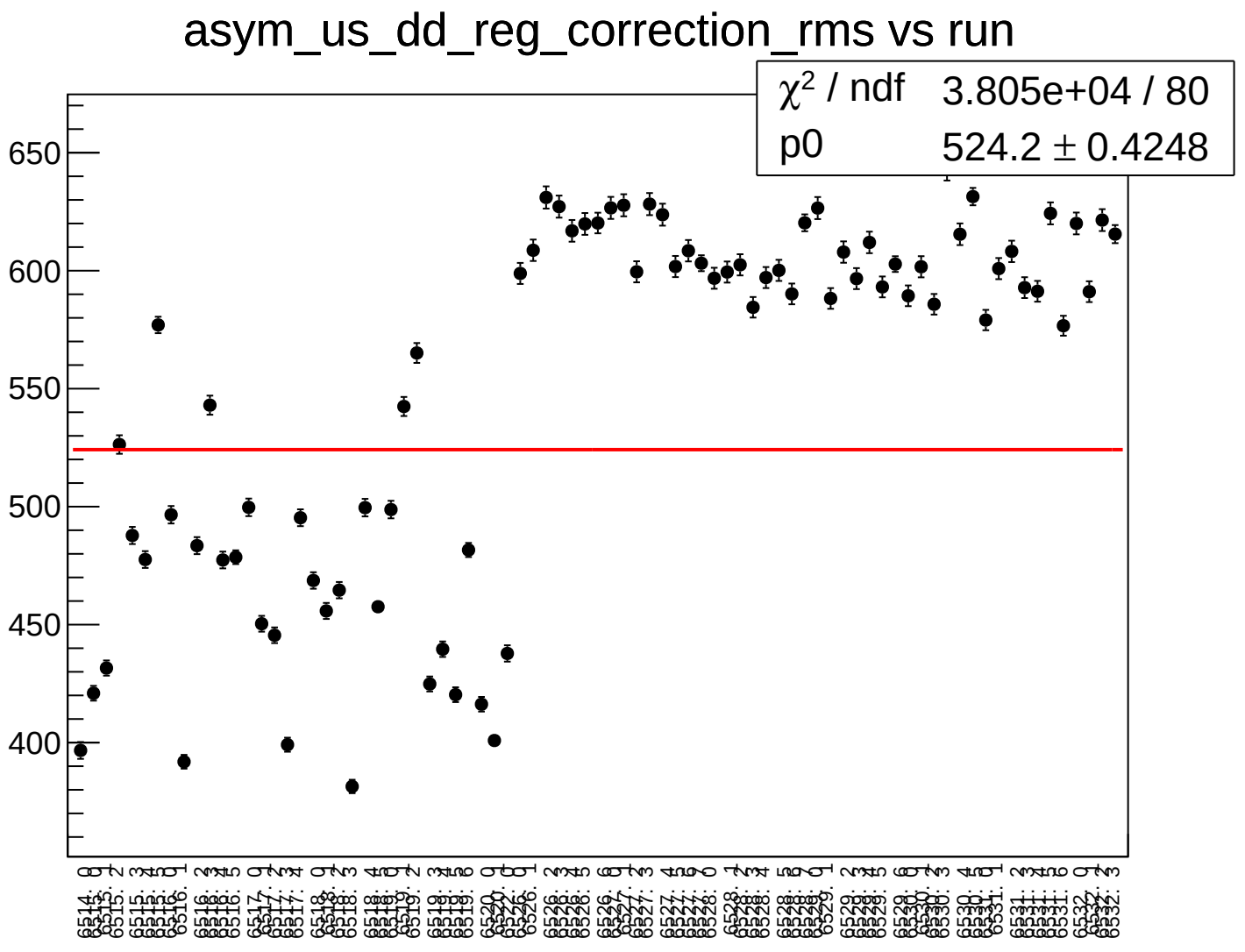

reg_asym_us_dd_mean vs run
χ² / ndf 81.98 / 80
p0 561.9 ± 882.8
pull
Entries 81
Mean −390.5
Std Dev 0

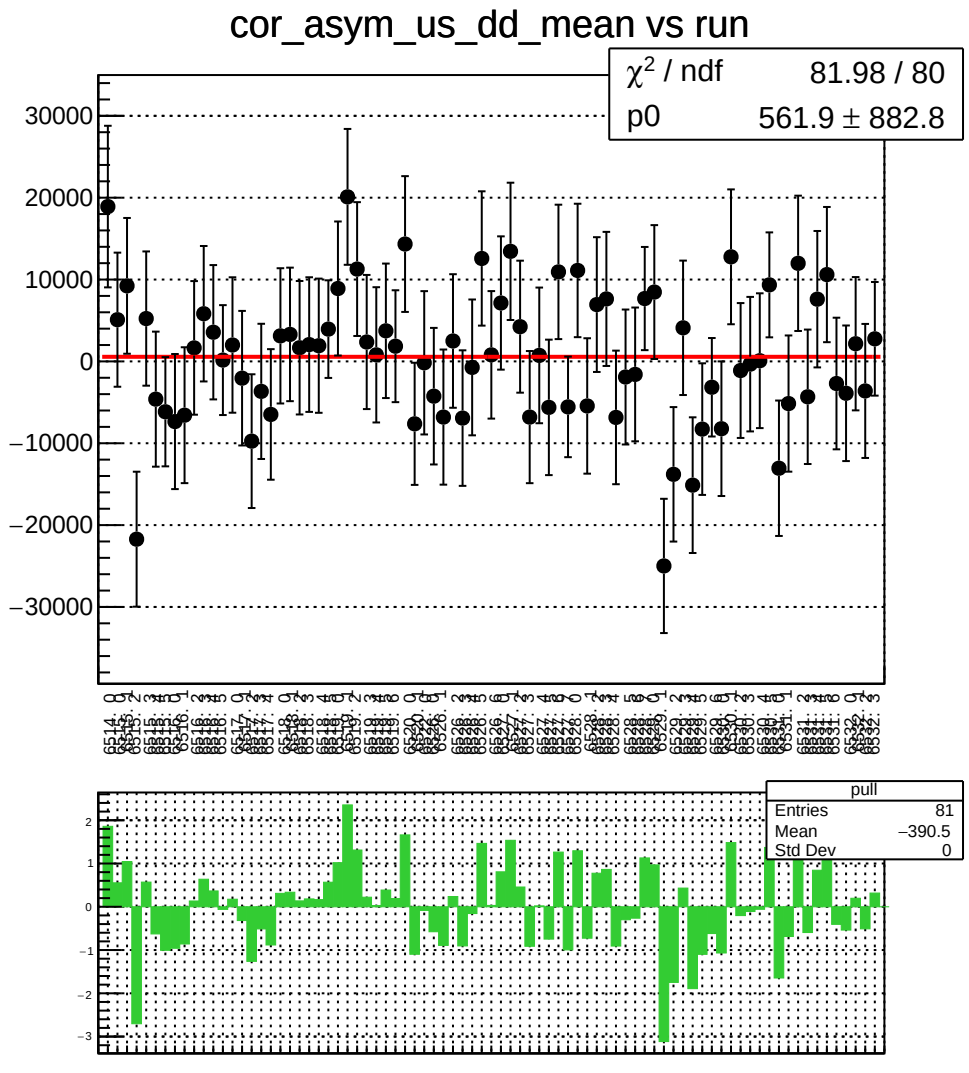

pull1D
Entries 81
Mean 0.003007
Std Dev 1.006

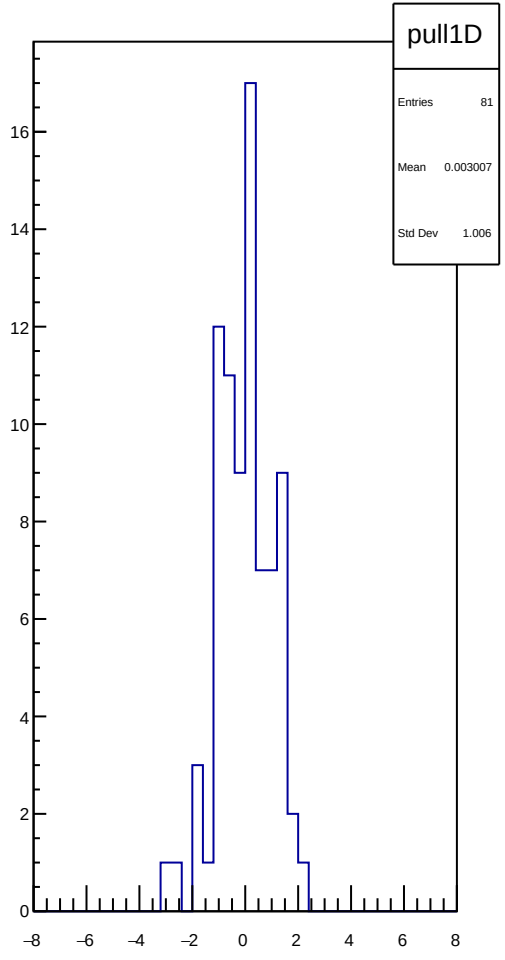

reg_asym_us_dd_rms vs run
χ² / ndf 84.48 / 80
p0 779.8 ± 0.6242
800
790
780
770
760

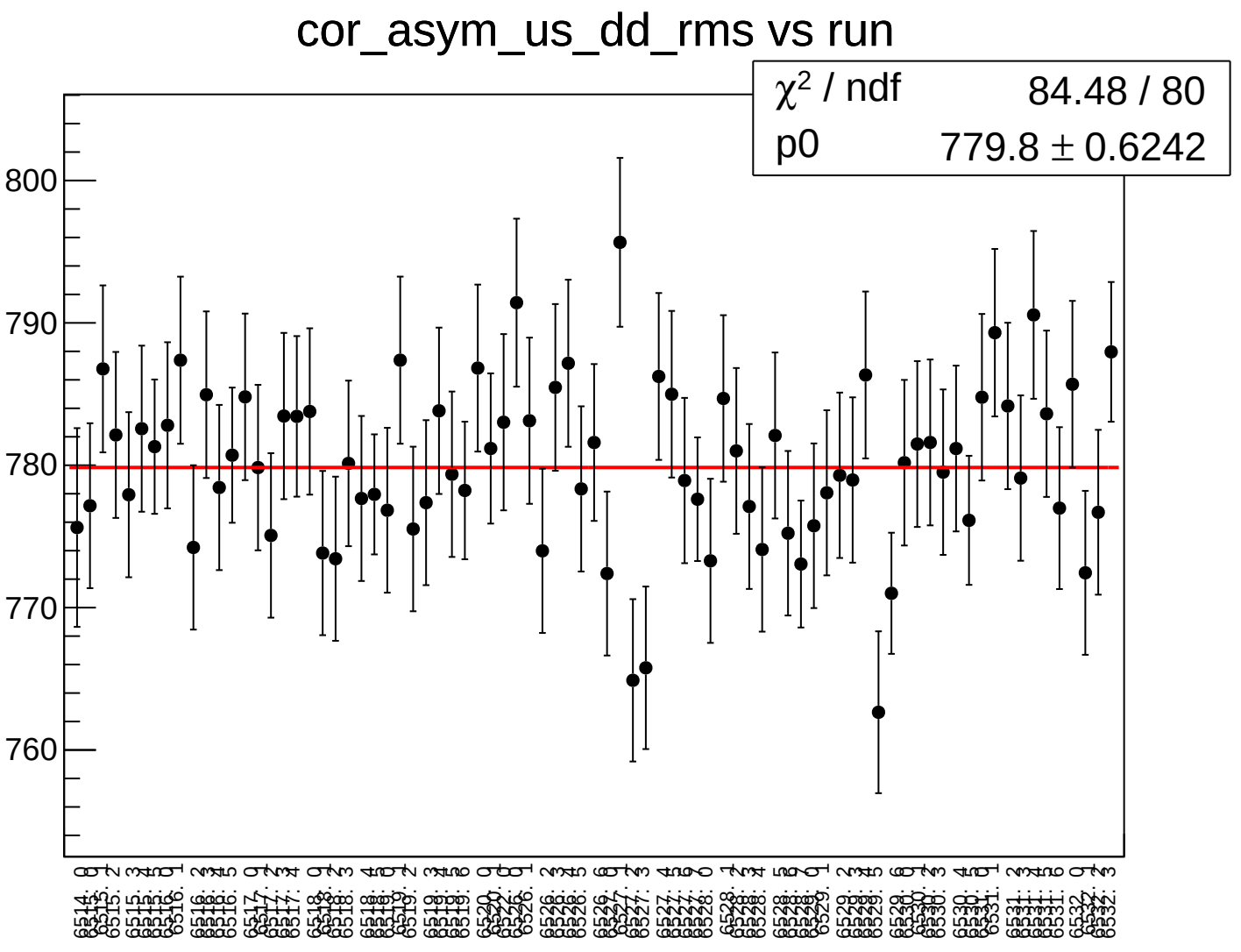

asym_us_dd_reg_correction_mean vs run
χ² / ndf 73.61 / 80
p0 178.4 ± 600.7
pull
Entries 81
Mean 2276
Std Dev 0

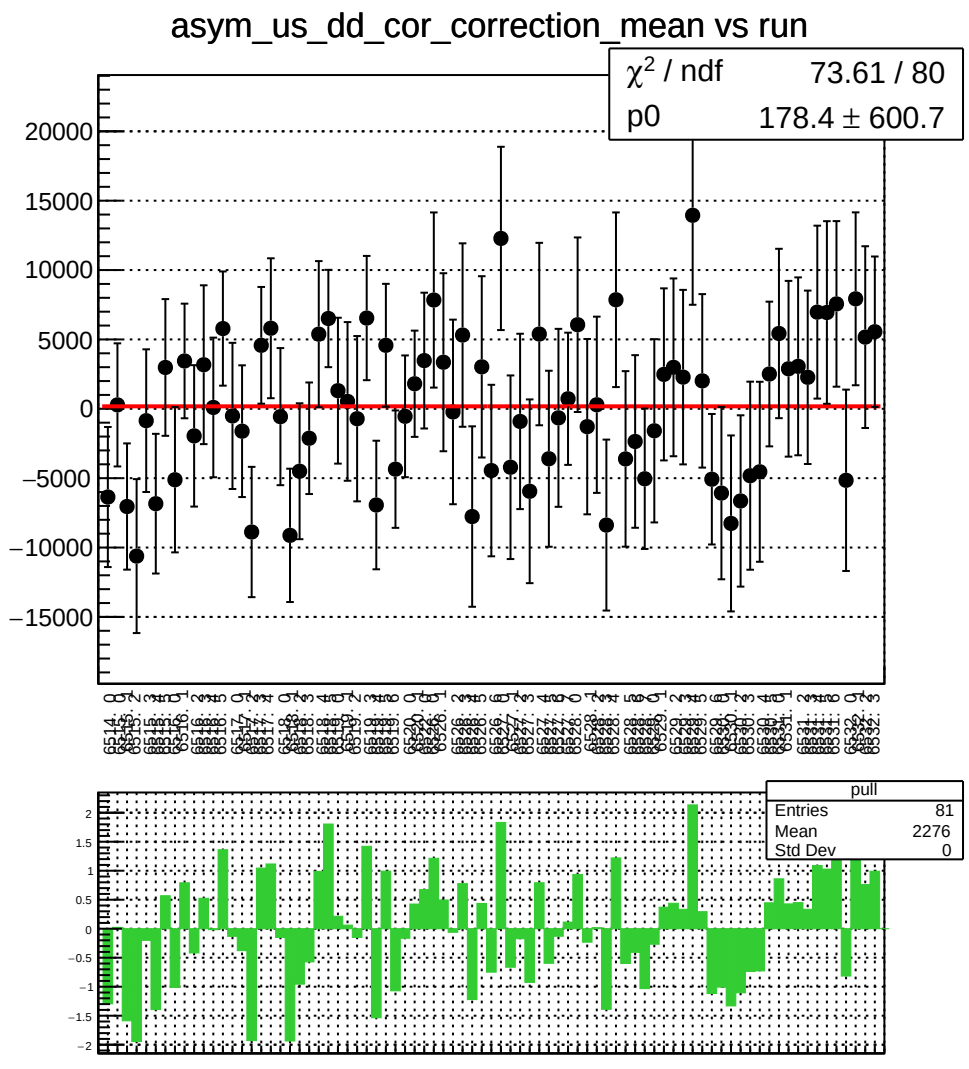

pull1D
Entries 81
Mean 0.002064
Std Dev 0.9533

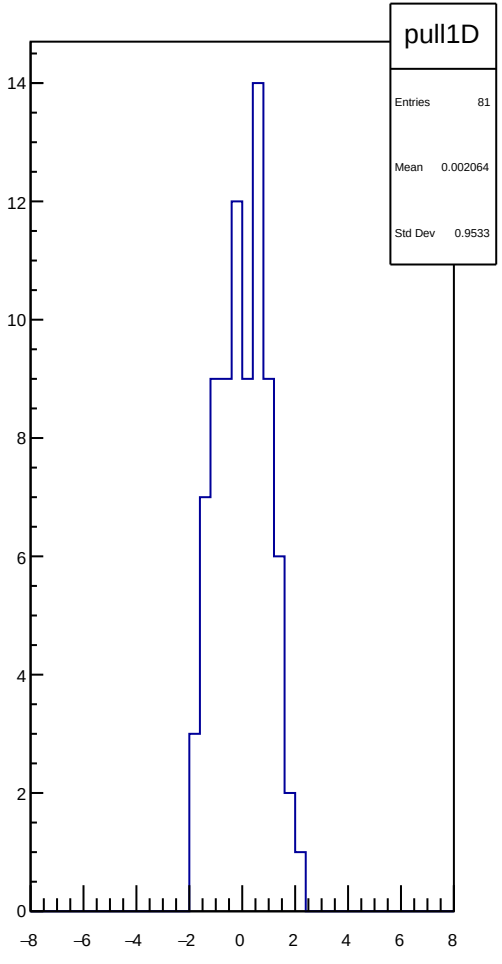

asym_us_dd_reg_correction_rms vs run
χ² / ndf 3.805e+04 / 80
p0 524.2 ± 0.4248
650
600
550
500
450
400

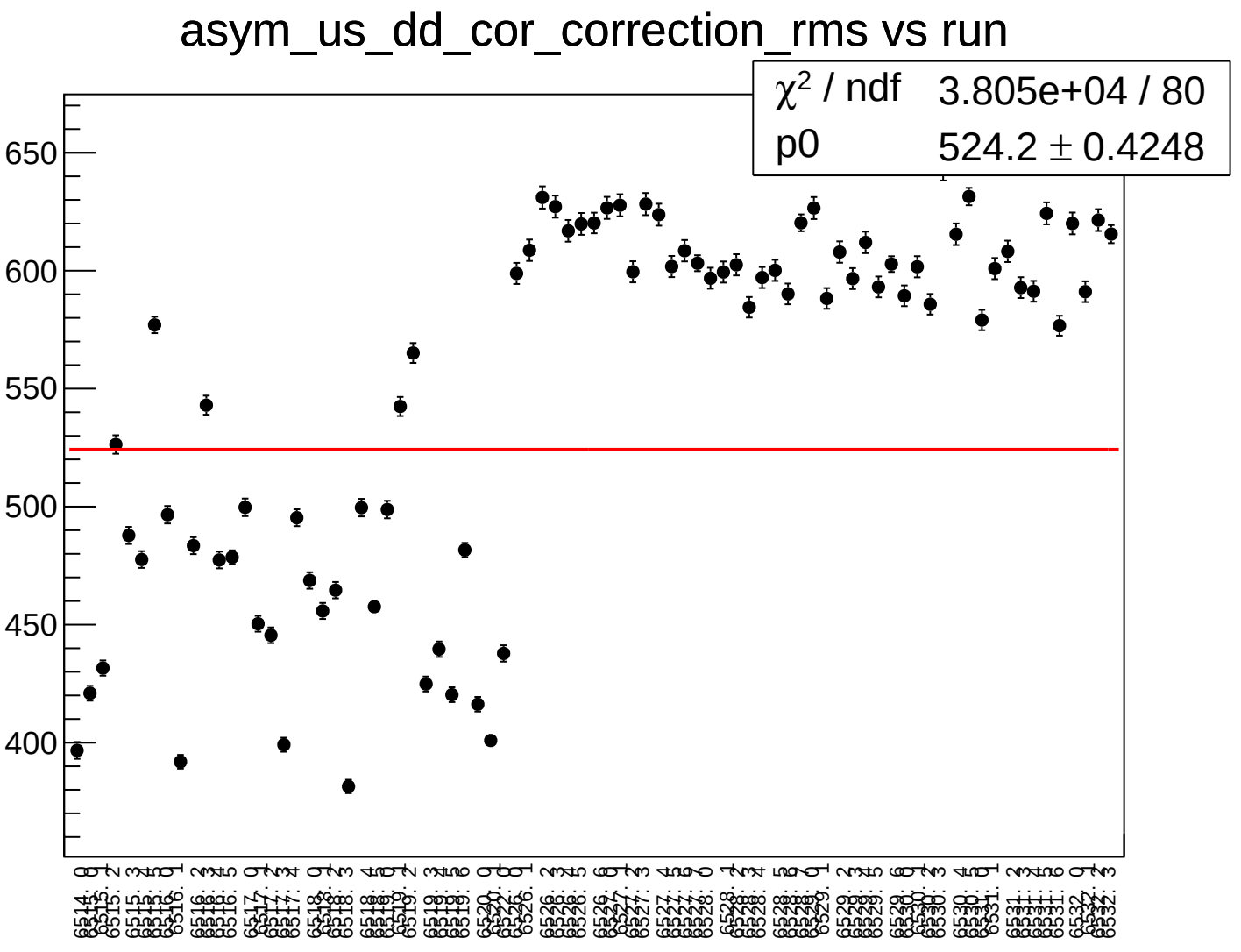

cor_asym_us_dd_mean vs run
χ² / ndf 81.98 / 80
p0 561.9 ± 882.8
pull
Entries 81
Mean −390.5
Std Dev 0

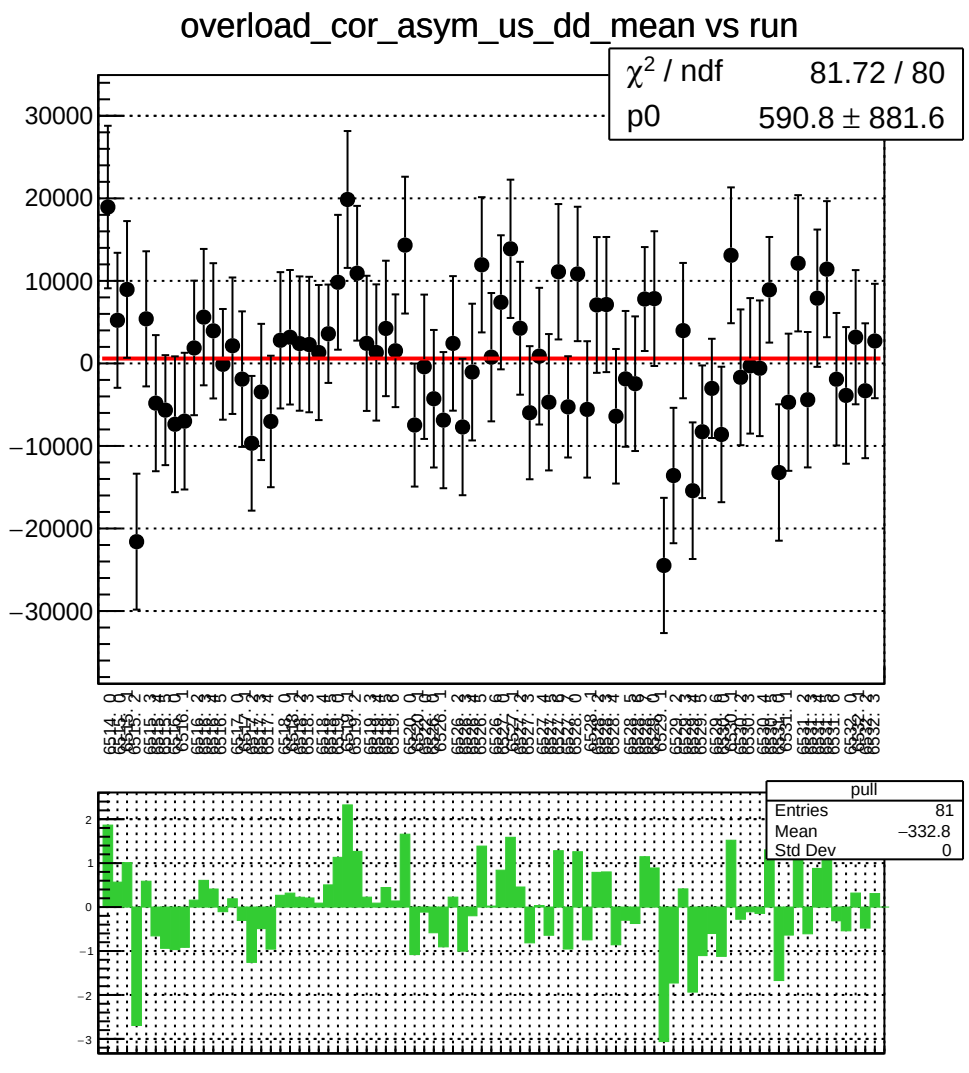

pull1D
Entries 81
Mean 0.003007
Std Dev 1.006

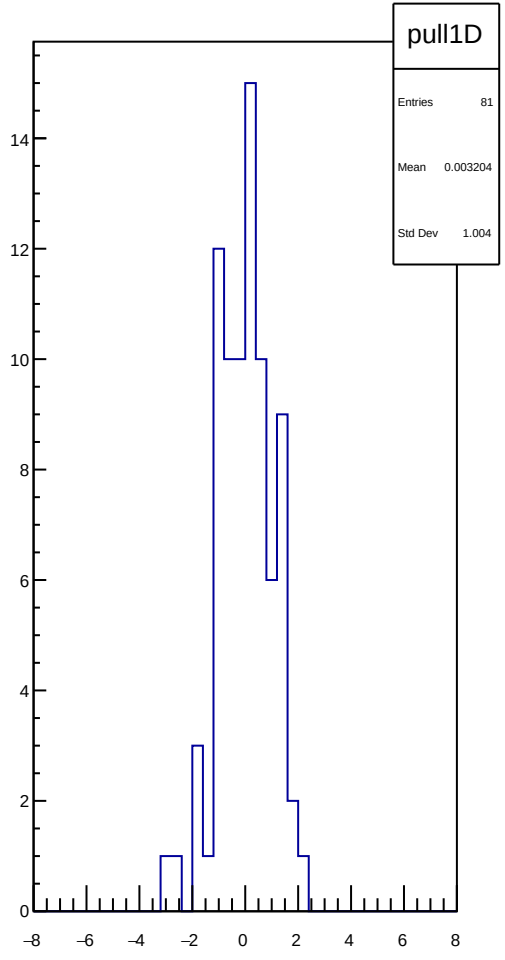

cor_asym_us_dd_rms vs run
χ² / ndf 84.48 / 80
p0 779.8 ± 0.6242
800
790
780
770
760

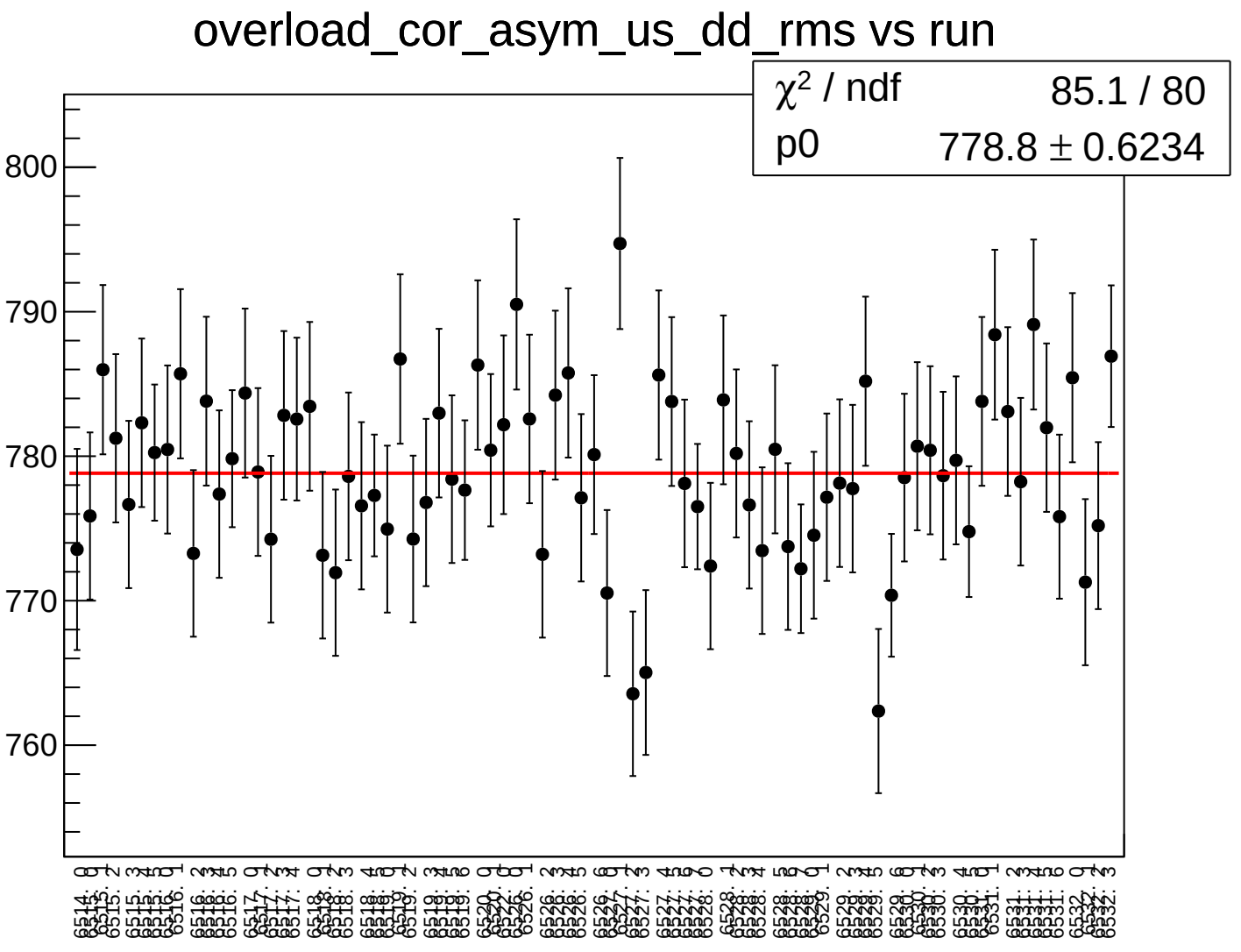

asym_us_dd_cor_correction_mean vs run
χ² / ndf 73.61 / 80
p0 178.4 ± 600.7
pull
Entries 81
Mean 2276
Std Dev 0

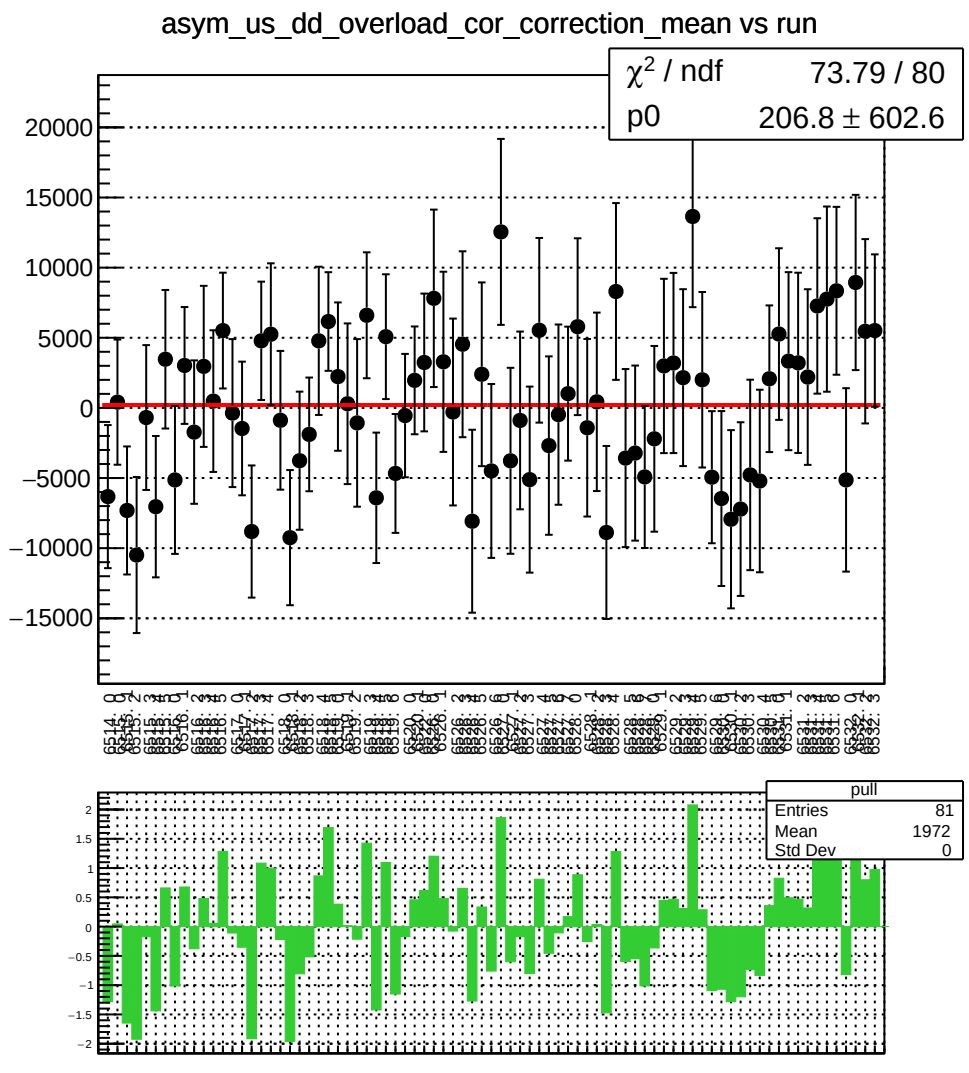

pull1D
Entries 81
Mean 0.002064
Std Dev 0.9533

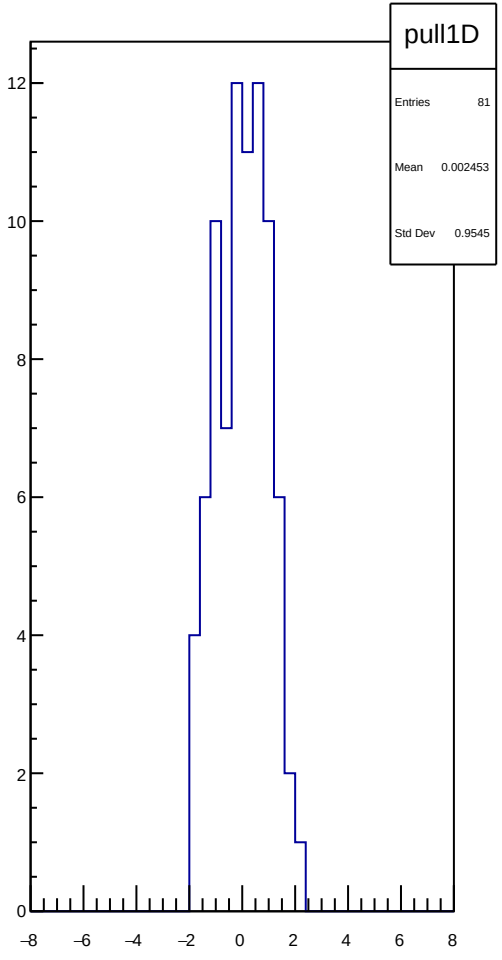

asym_us_dd_cor_correction_rms vs run
χ² / ndf 3.805e+04 / 80
p0 524.2 ± 0.4248
650
600
550
500
450
400

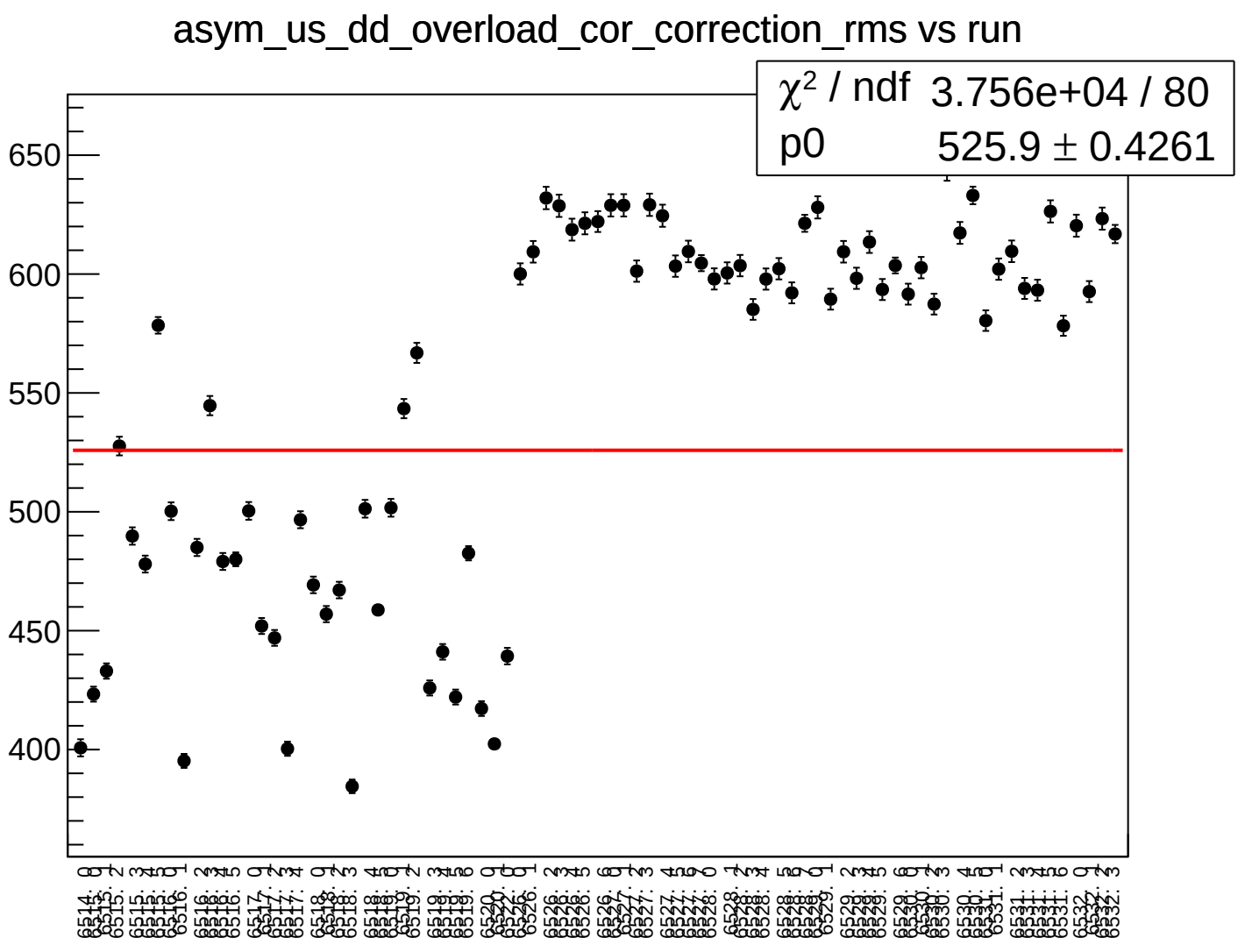

overload_cor_asym_us_dd_mean vs run
χ² / ndf 81.72 / 80
p0 590.8 ± 881.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean −332.8
Std Dev 0
2
1
0
−1
−2
−3

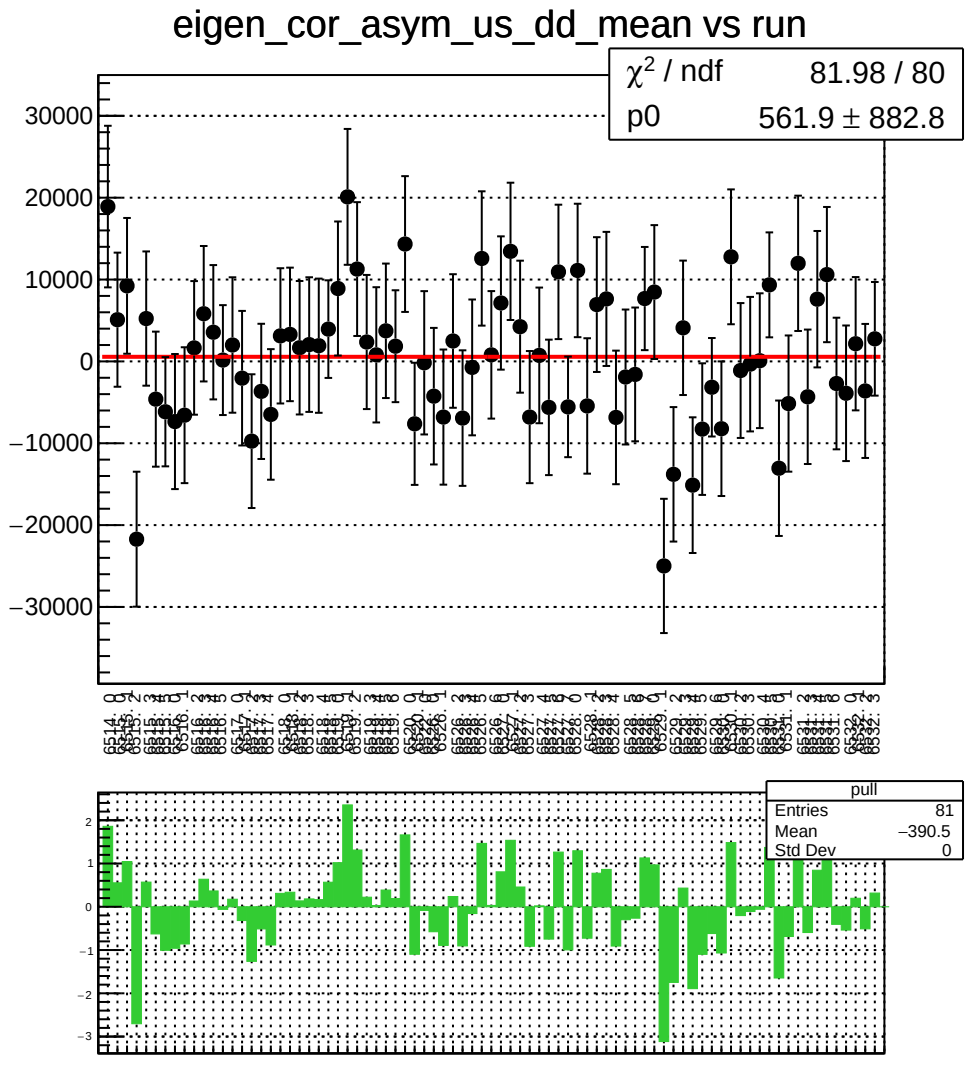

pull1D
Entries 81
Mean 0.003204
Std Dev 1.004
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

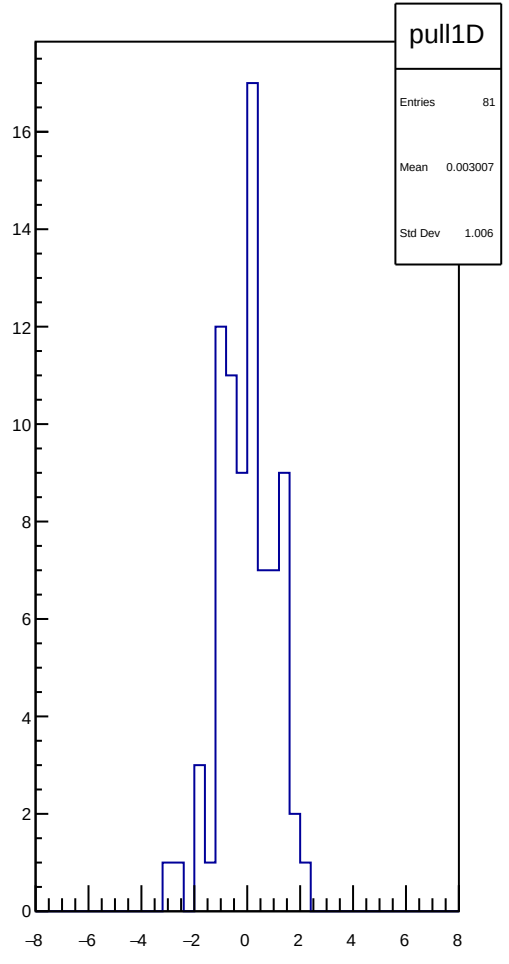

overload_cor_asym_us_dd_rms vs run
χ² / ndf 85.1 / 80
p0 778.8 ± 0.6234
800
790
780
770
760

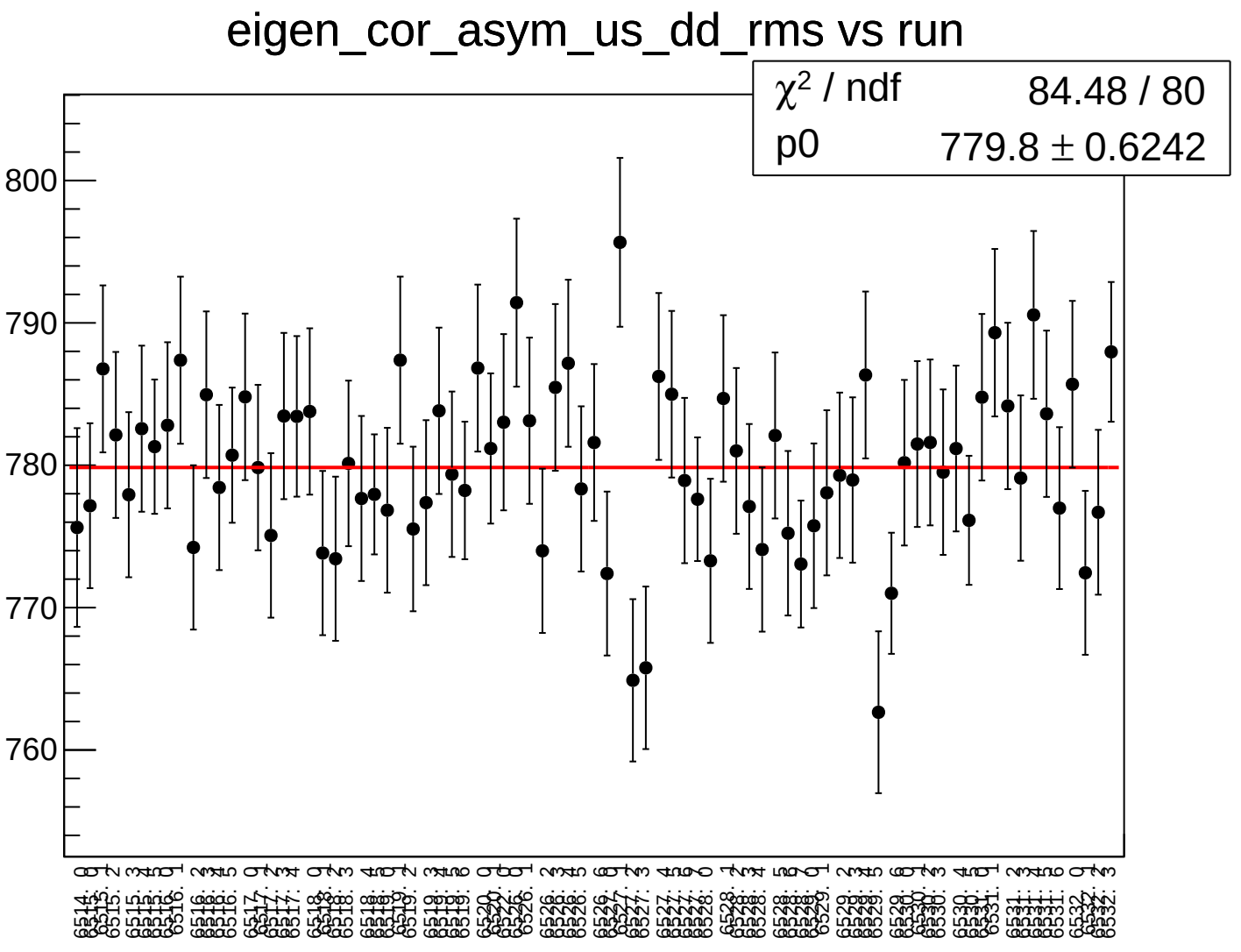

asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 73.79 / 80
p0 206.8 ± 602.6
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean 1972
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

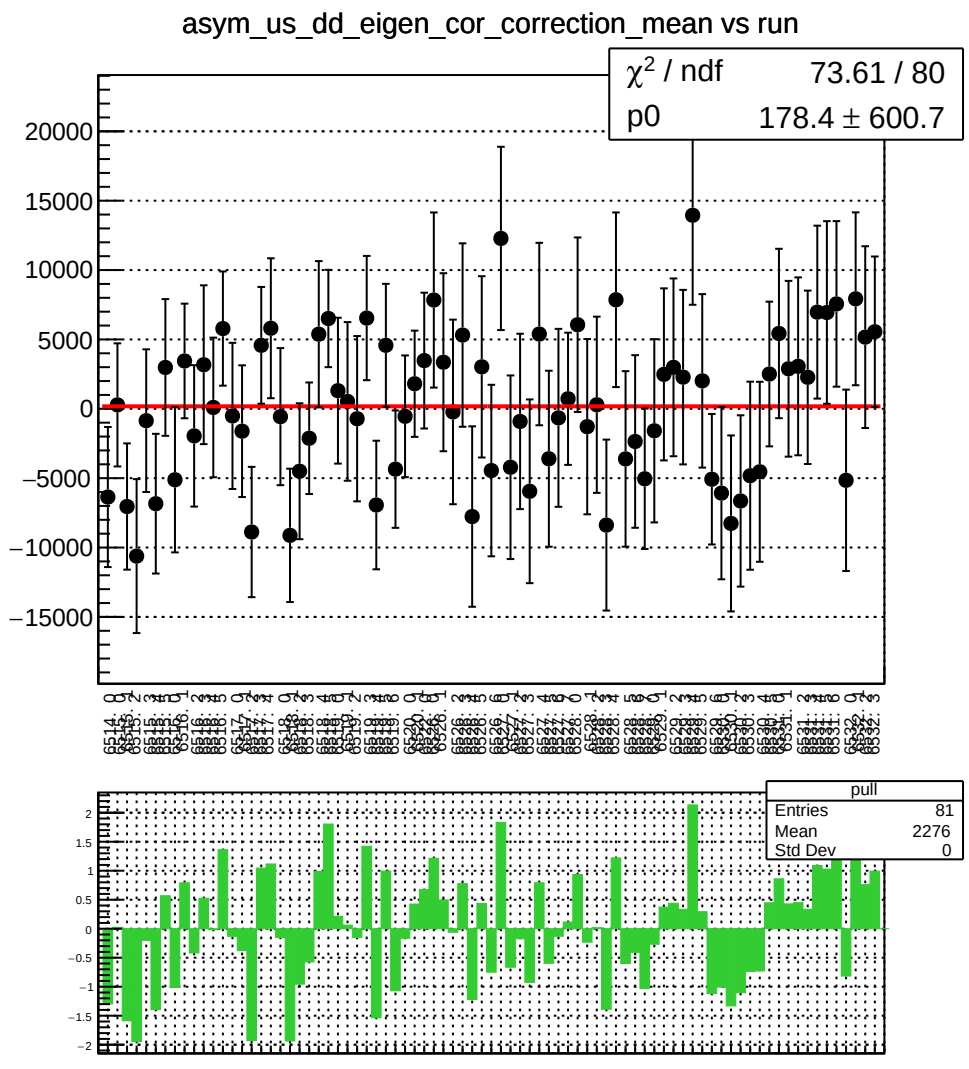

pull1D
Entries 81
Mean 0.002453
Std Dev 0.9545
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

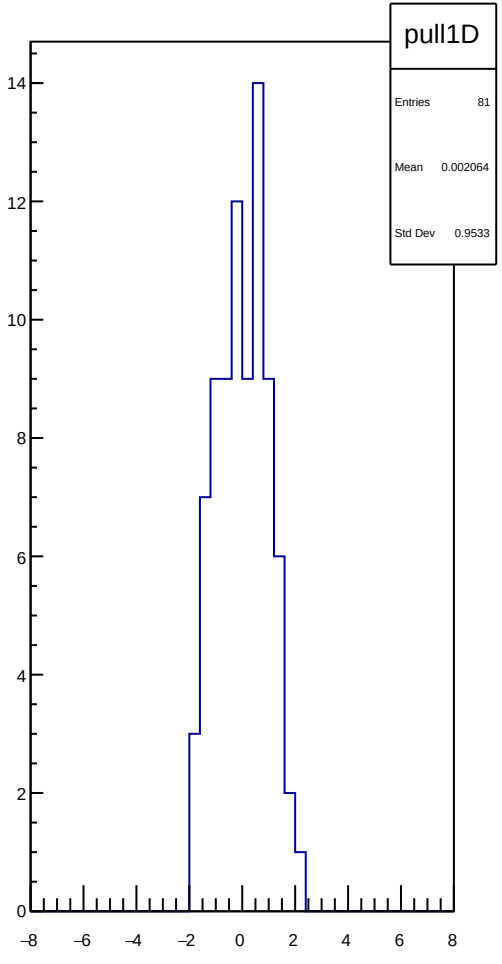

asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 3.756e+04 / 80
p0 525.9 ± 0.4261
650
600
550
500
450
400

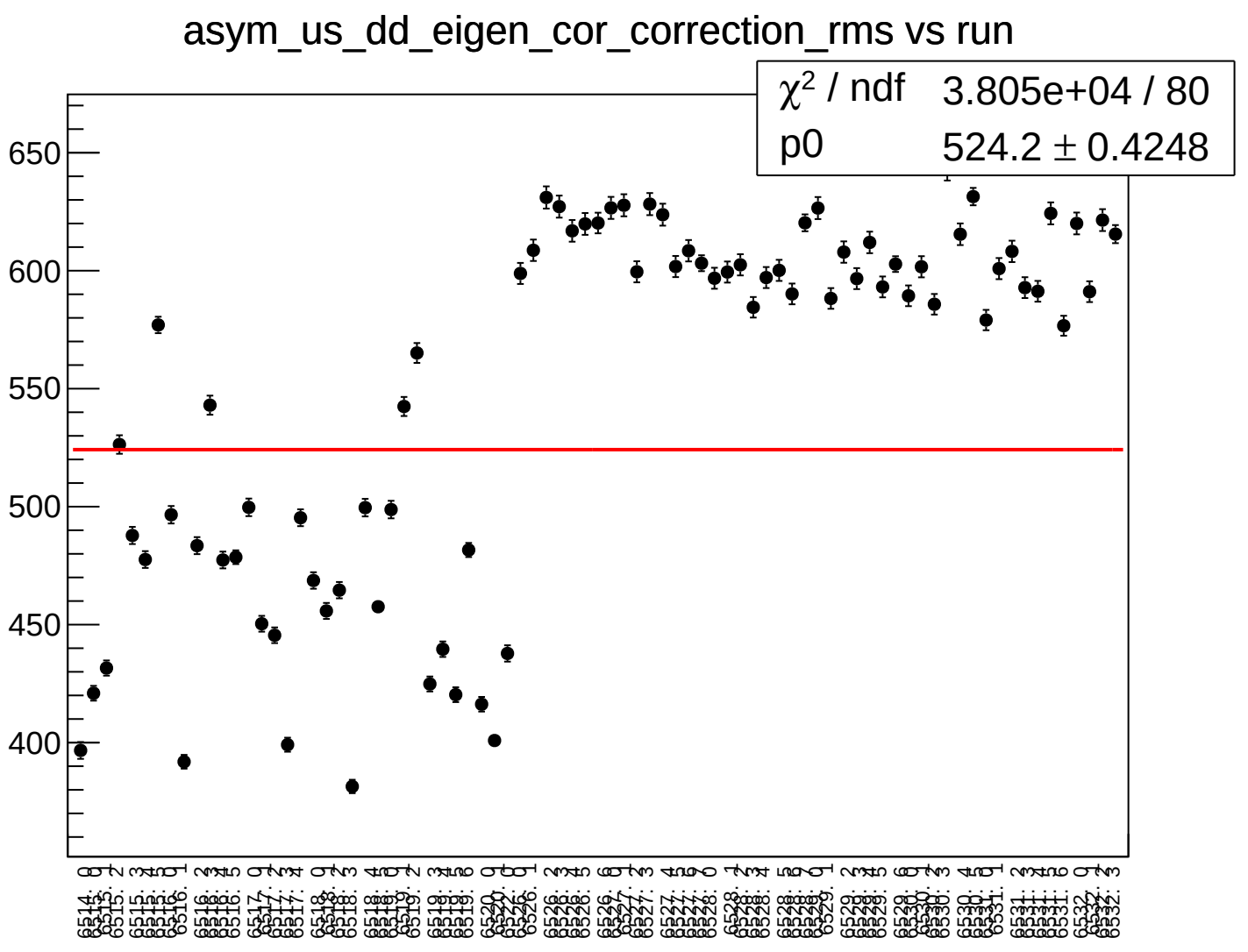

eigen_cor_asym_us_dd_mean vs run
χ^2 / ndf 81.98 / 80
p0 561.9 ± 882.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean −390.5
Std Dev 0
2
1
0
−1
−2
−3

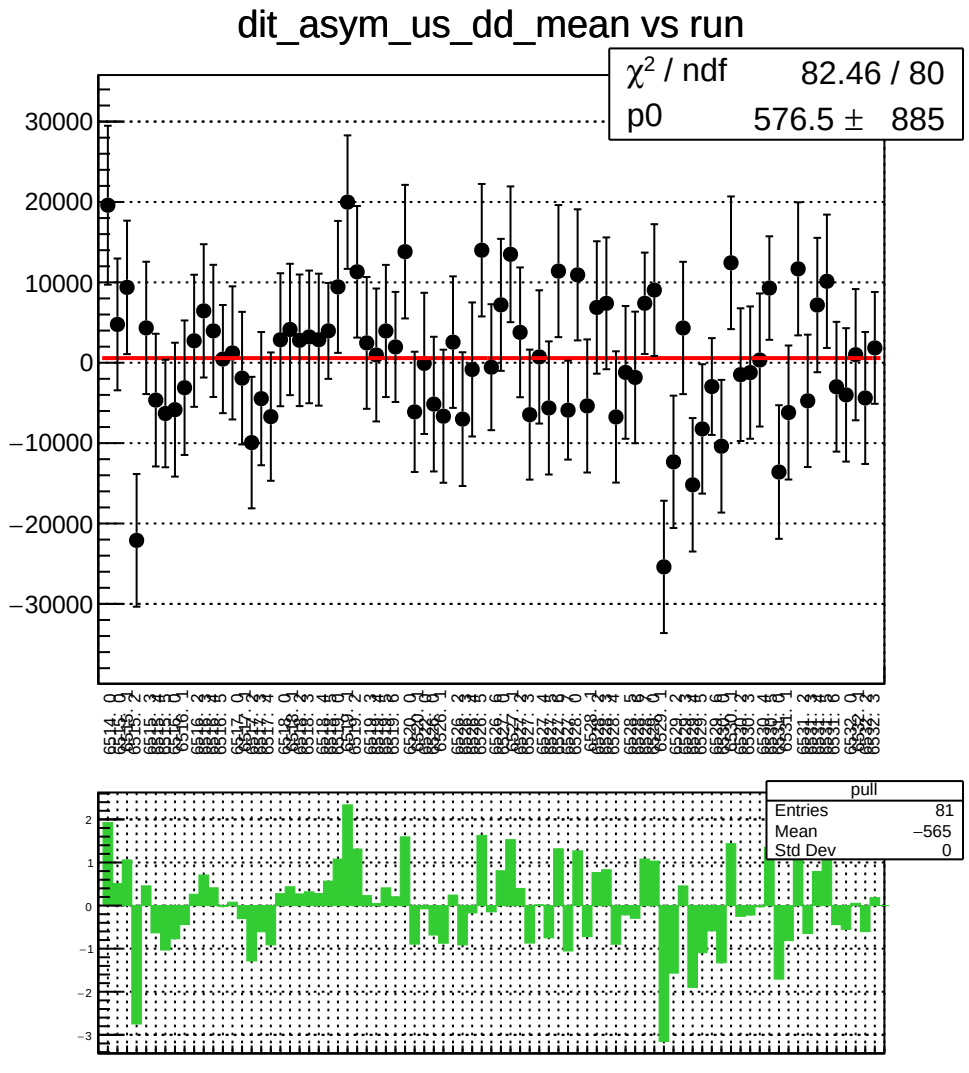

pull1D
Entries 81
Mean 0.003007
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

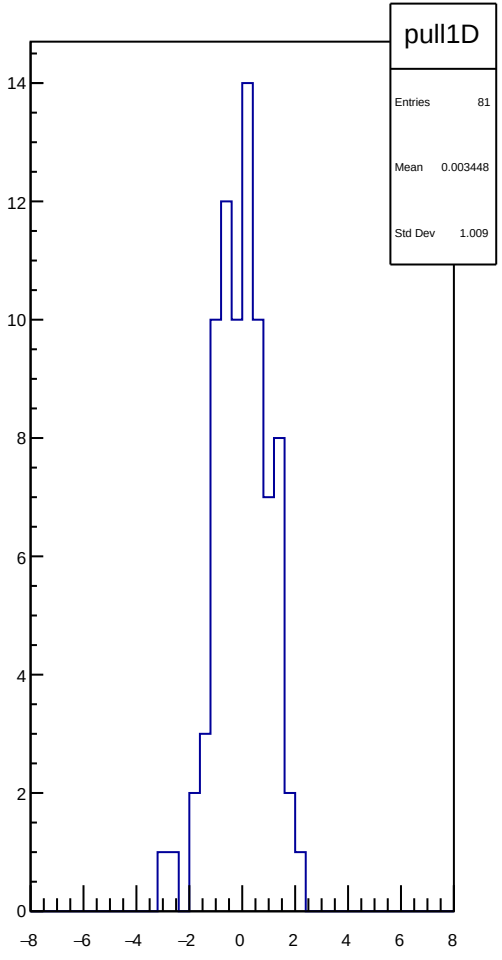

eigen_cor_asym_us_dd_rms vs run
χ² / ndf 84.48 / 80
p0 779.8 ± 0.6242
800
790
780
770
760

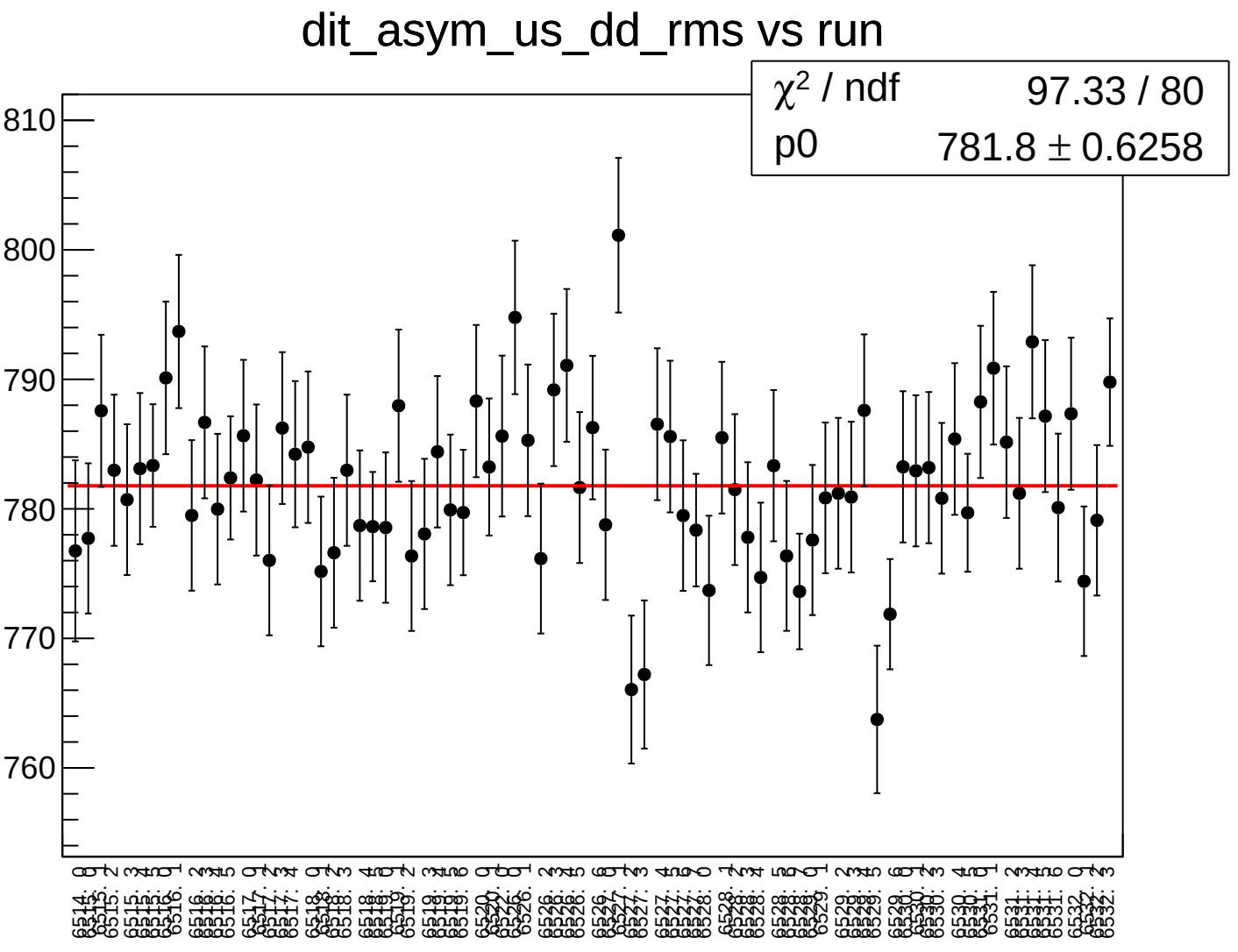

asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 73.61 / 80
p0 178.4 ± 600.7
pull
Entries 81
Mean 2276
Std Dev 0

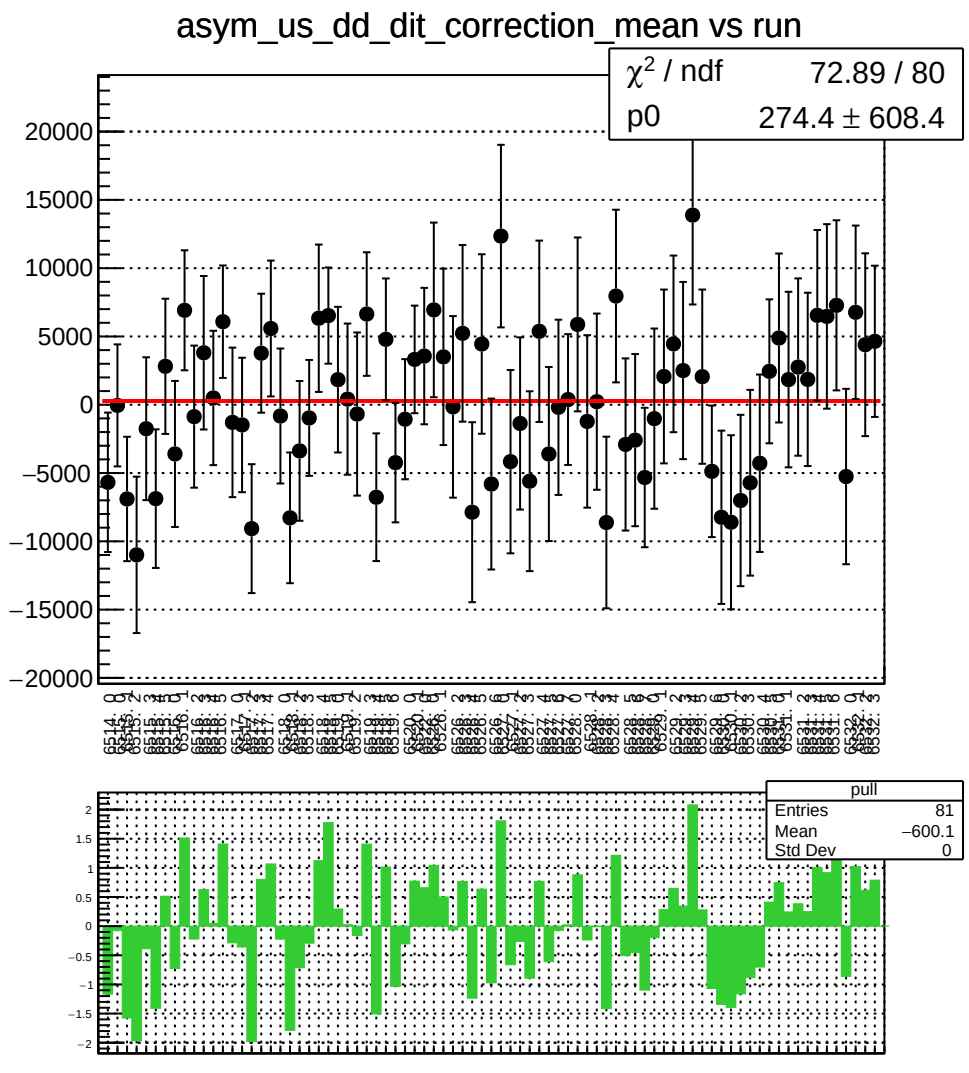

pull1D
Entries 81
Mean 0.002064
Std Dev 0.9533

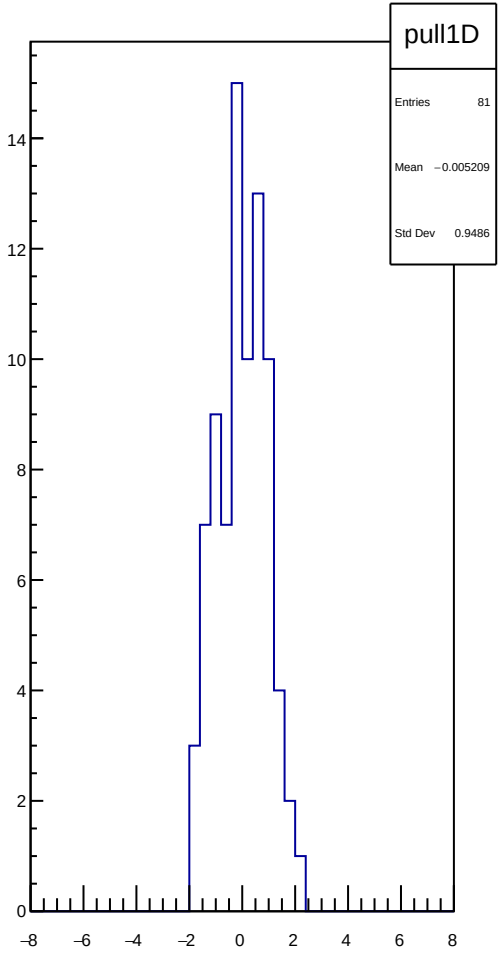

asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.805e+04 / 80
p0 524.2 ± 0.4248
650
600
550
500
450
400

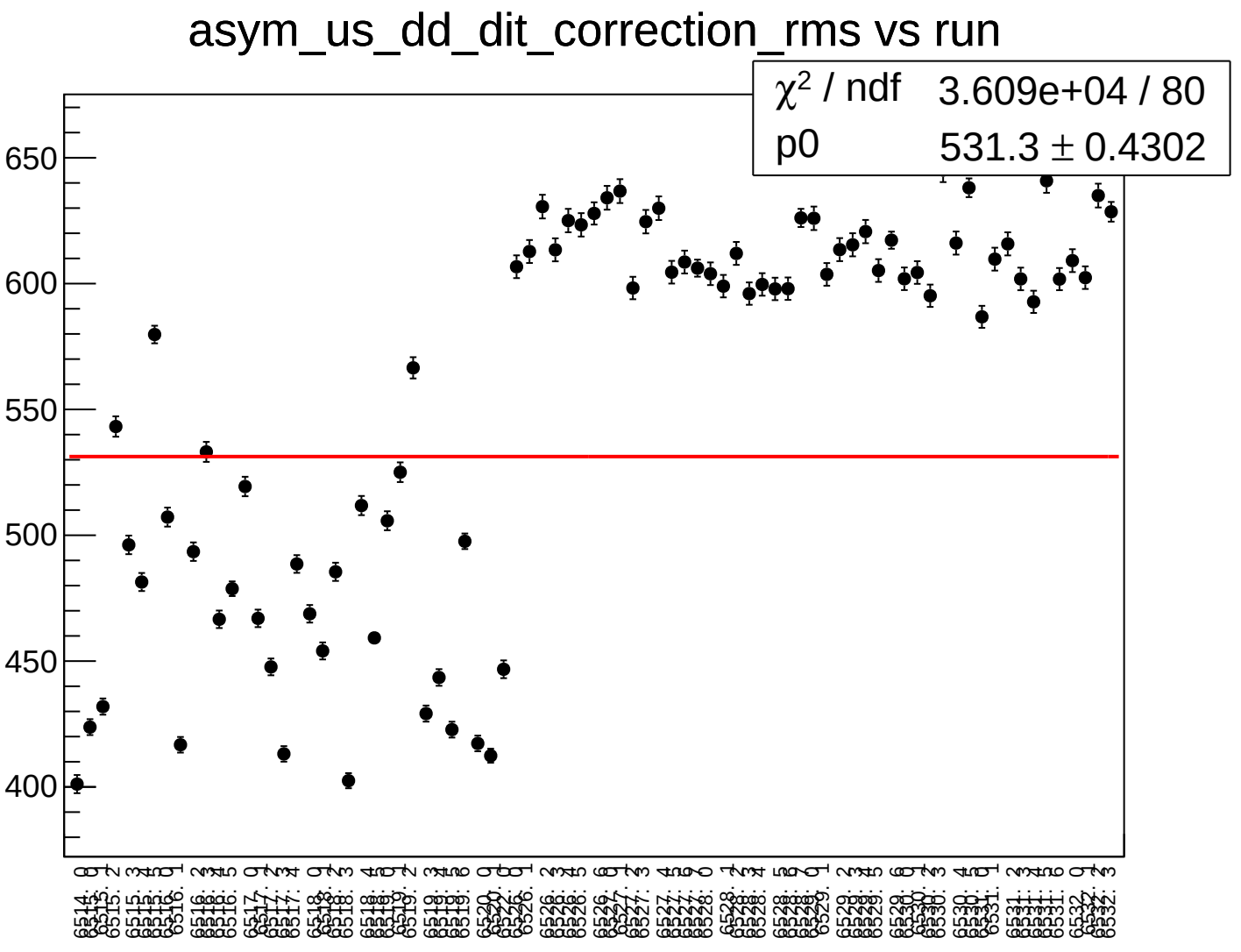

dit_asym_us_dd_mean vs run
χ² / ndf 82.46 / 80
p0 576.5 ± 885
pull
Entries 81
Mean −565
Std Dev 0

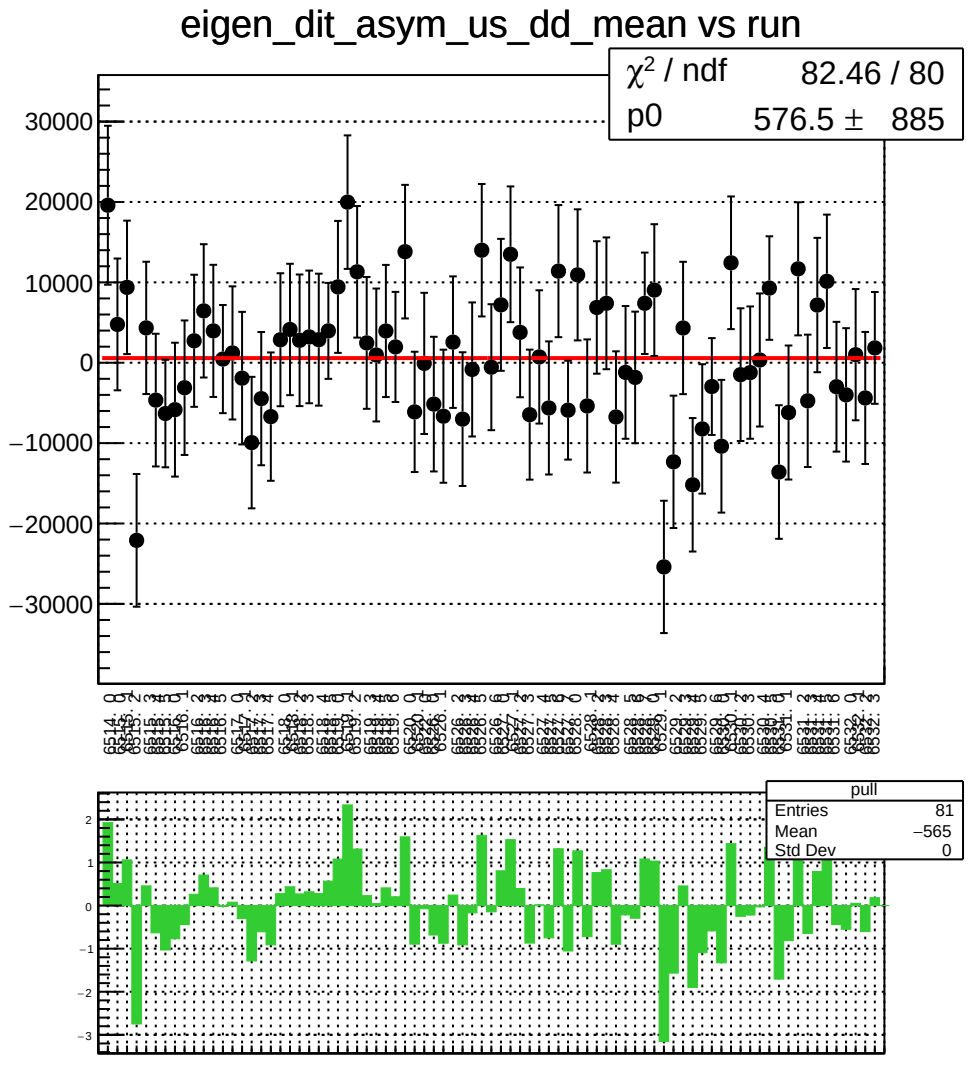

pull1D
Entries 81
Mean 0.003448
Std Dev 1.009

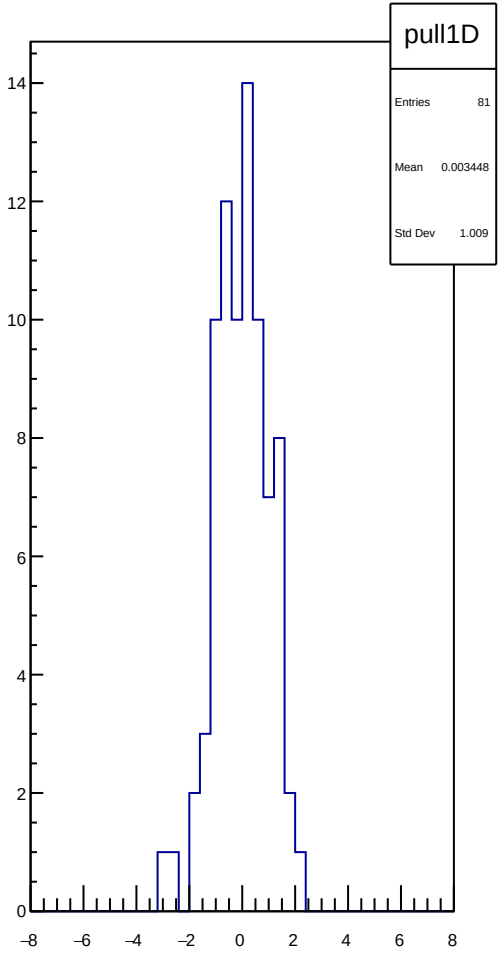

dit_asym_us_dd_rms vs run
χ² / ndf 97.33 / 80
p0 781.8 ± 0.6258
810
800
790
780
770
760

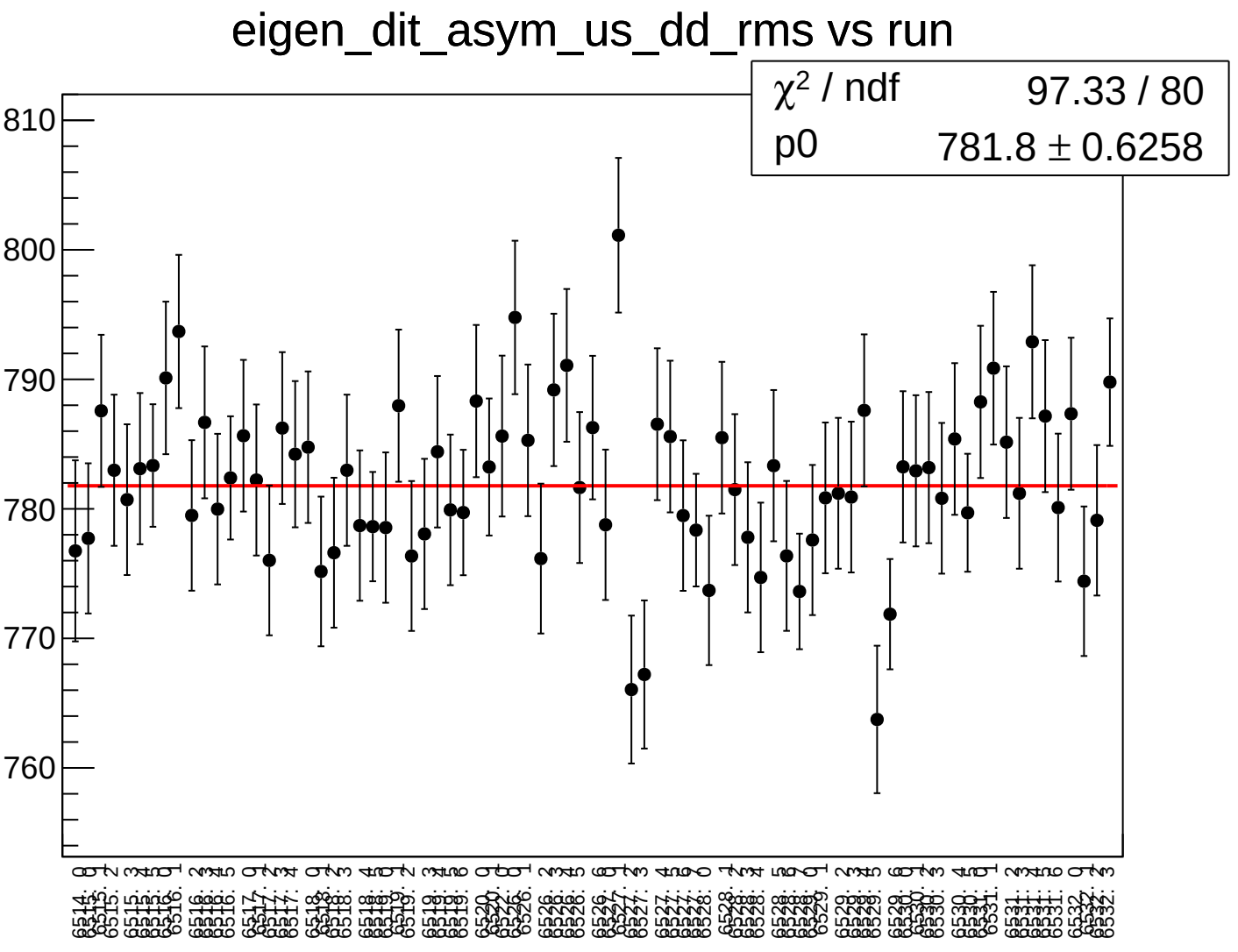

asym_us_dd_dit_correction_mean vs run
χ² / ndf 72.89 / 80
p0 274.4 ± 608.4
pull
Entries 81
Mean −600.1
Std Dev 0

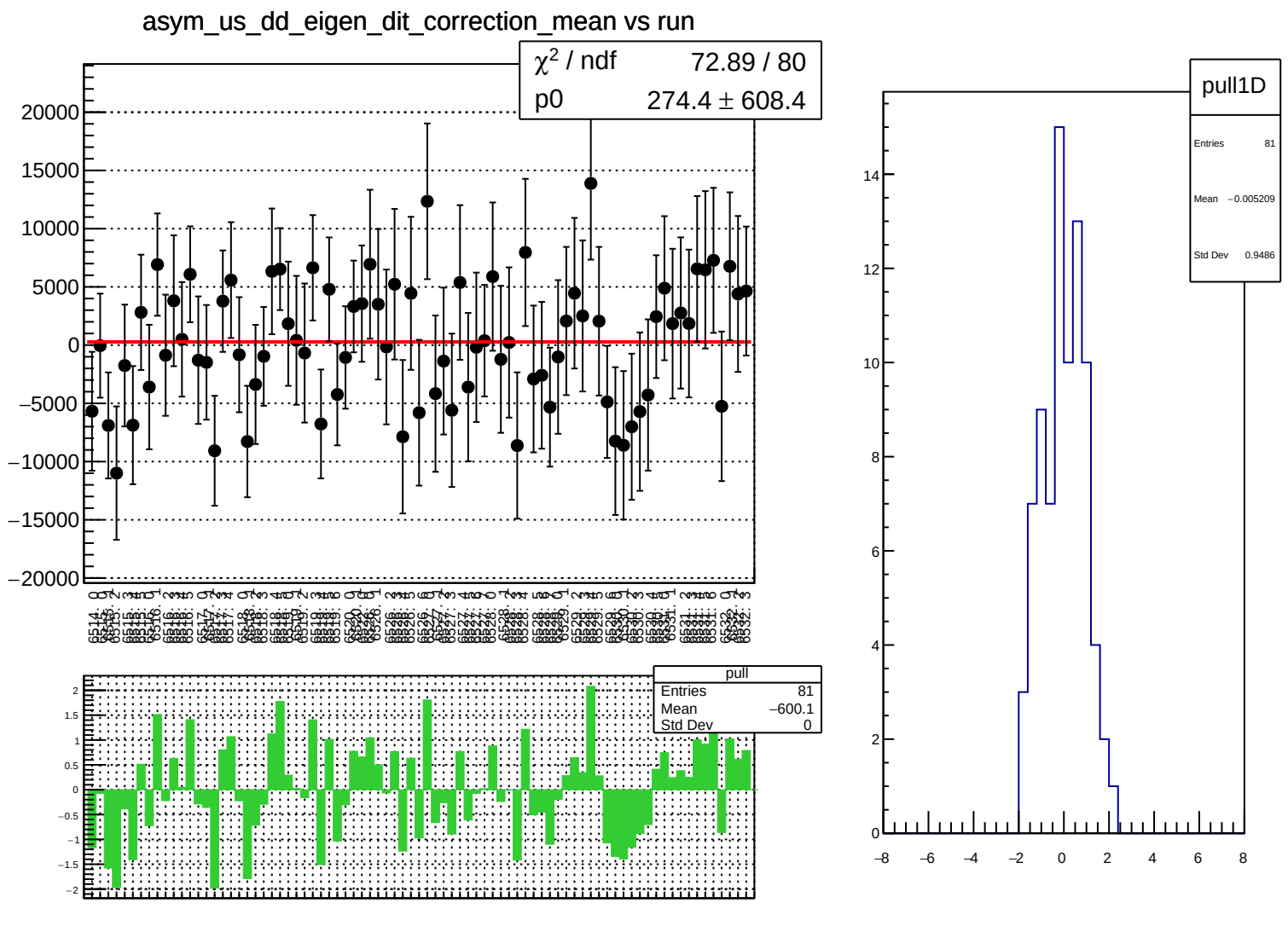

pull1D
Entries 81
Mean −0.005209
Std Dev 0.9486

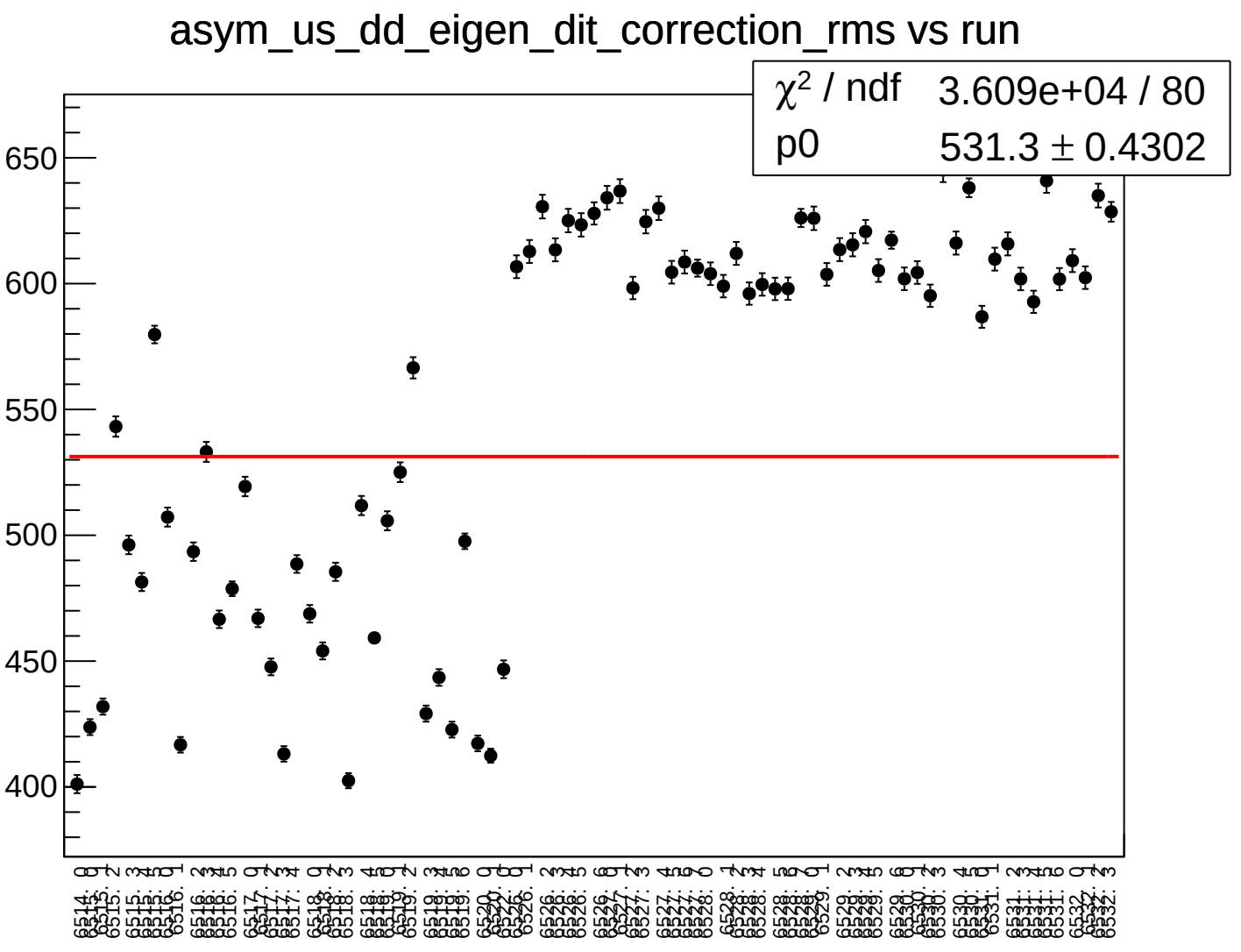

asym_us_dd_dit_correction_rms vs run
χ² / ndf 3.609e+04 / 80
p0 531.3 ± 0.4302
650
600
550
500
450
400

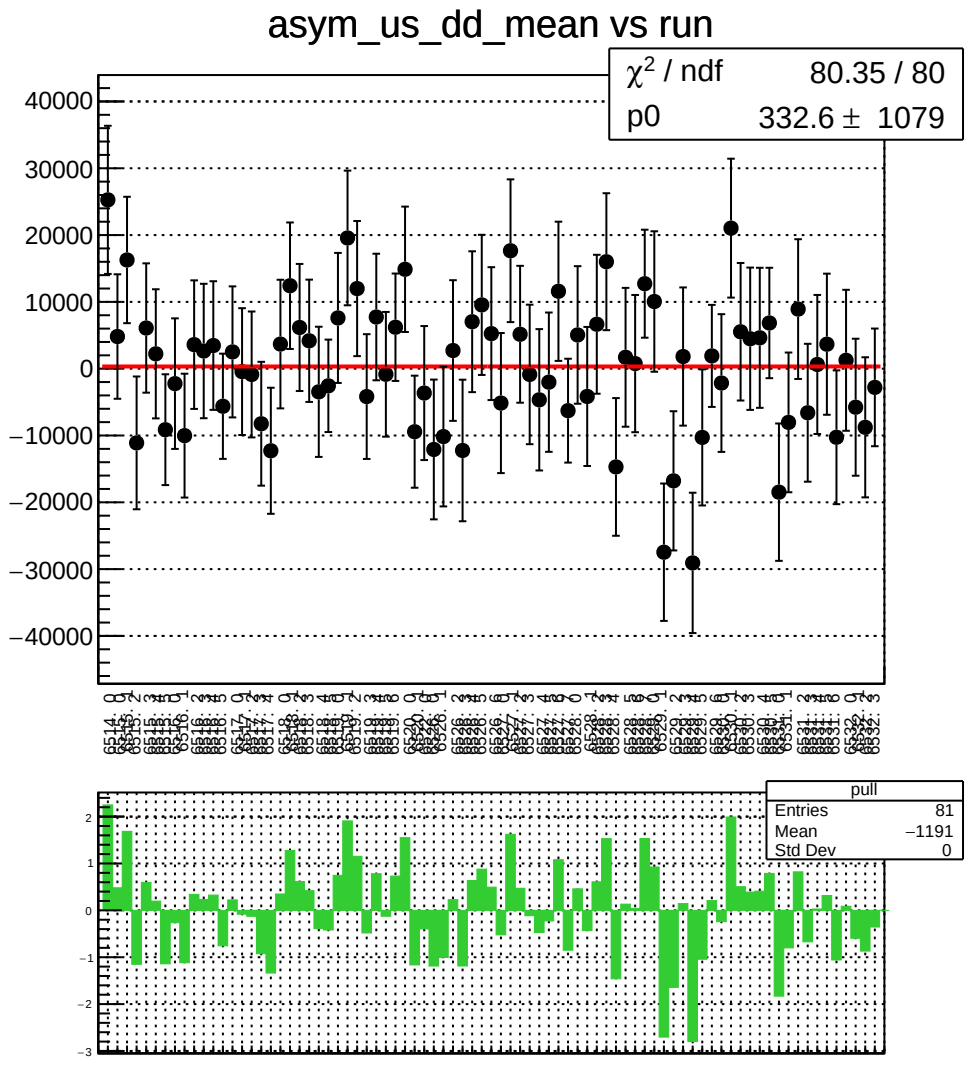

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 82.46 / 80
p0 576.5 ± 885
pull
Entries 81
Mean −565
Std Dev 0

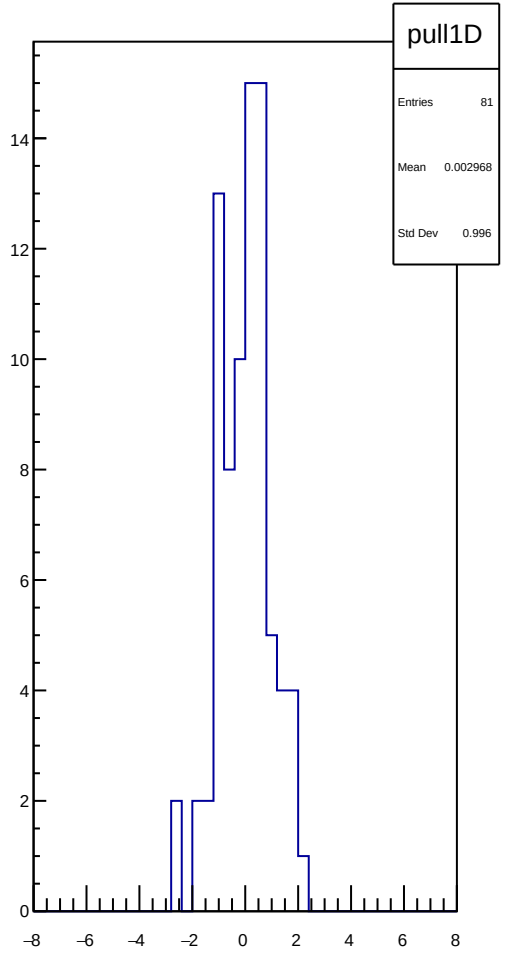

pull1D
Entries 81
Mean 0.003448
Std Dev 1.009

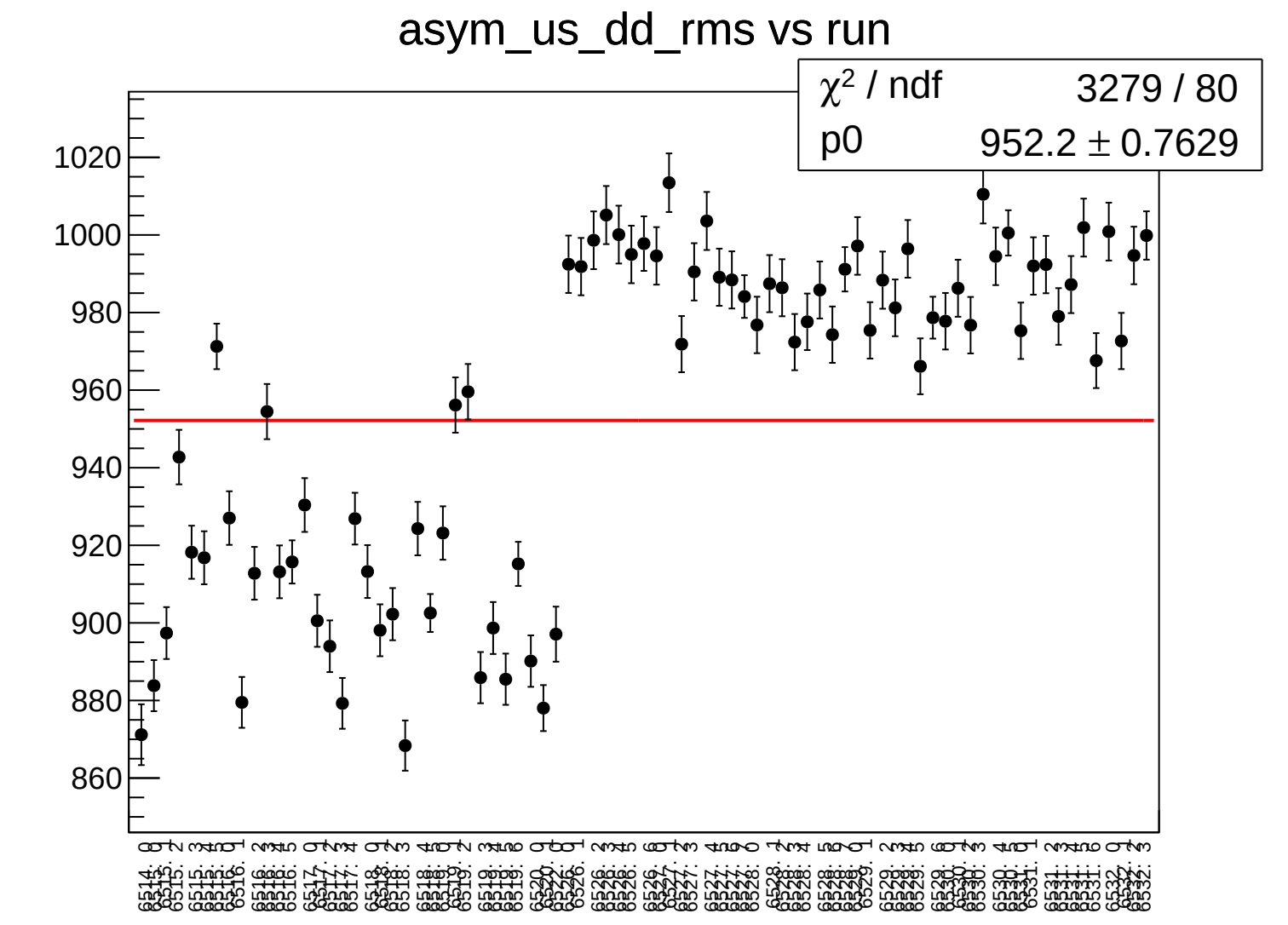

eigen_dit_asym_us_dd_rms vs run
χ² / ndf 97.33 / 80
p0 781.8 ± 0.6258
810
800
790
780
770
760

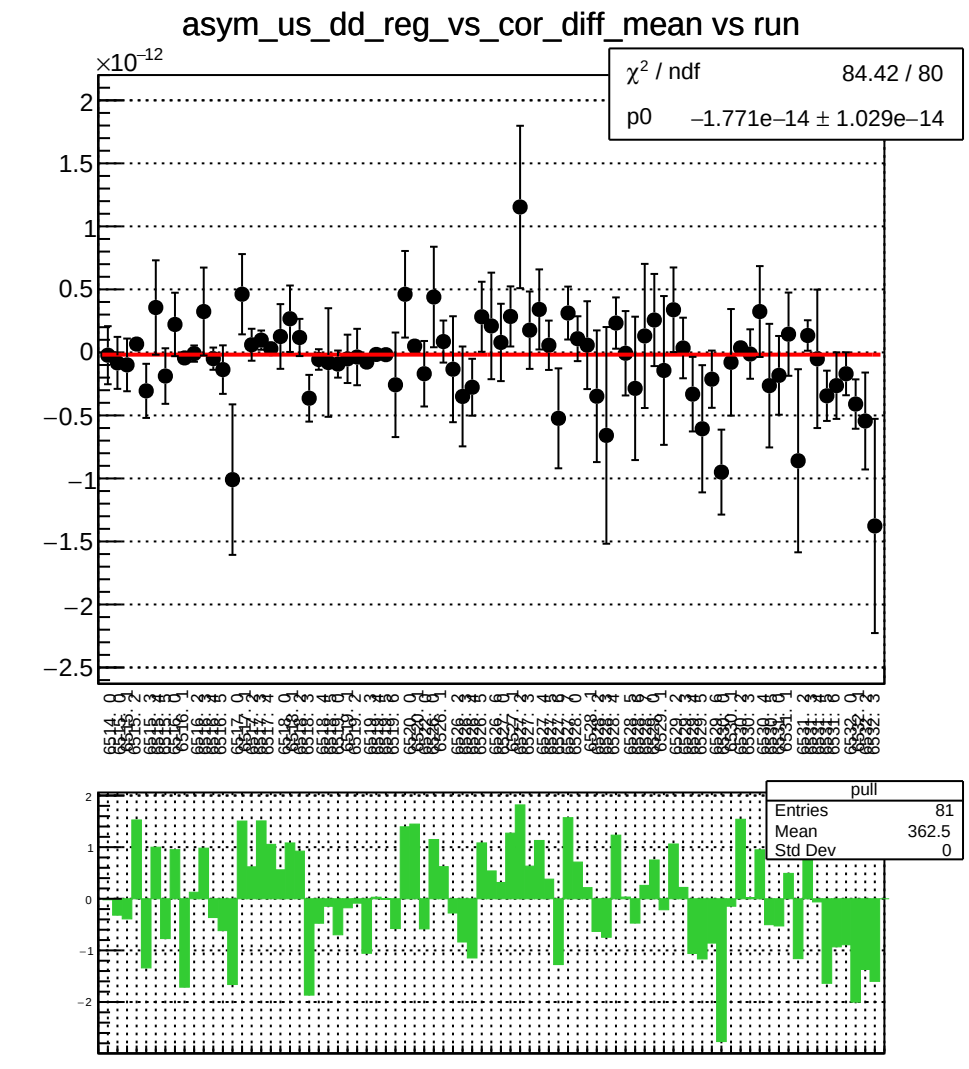

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 72.89 / 80
p0 274.4 ± 608.4
pull
Entries 81
Mean −600.1
Std Dev 0
pull1D
Entries 81
Mean −0.005209
Std Dev 0.9486

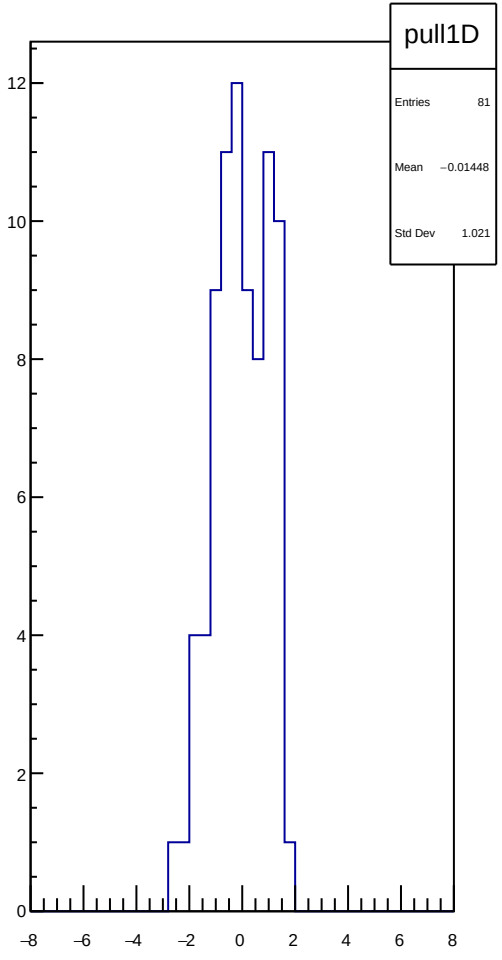

asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.609e+04 / 80
p0 531.3 ± 0.4302
650
600
550
500
450
400

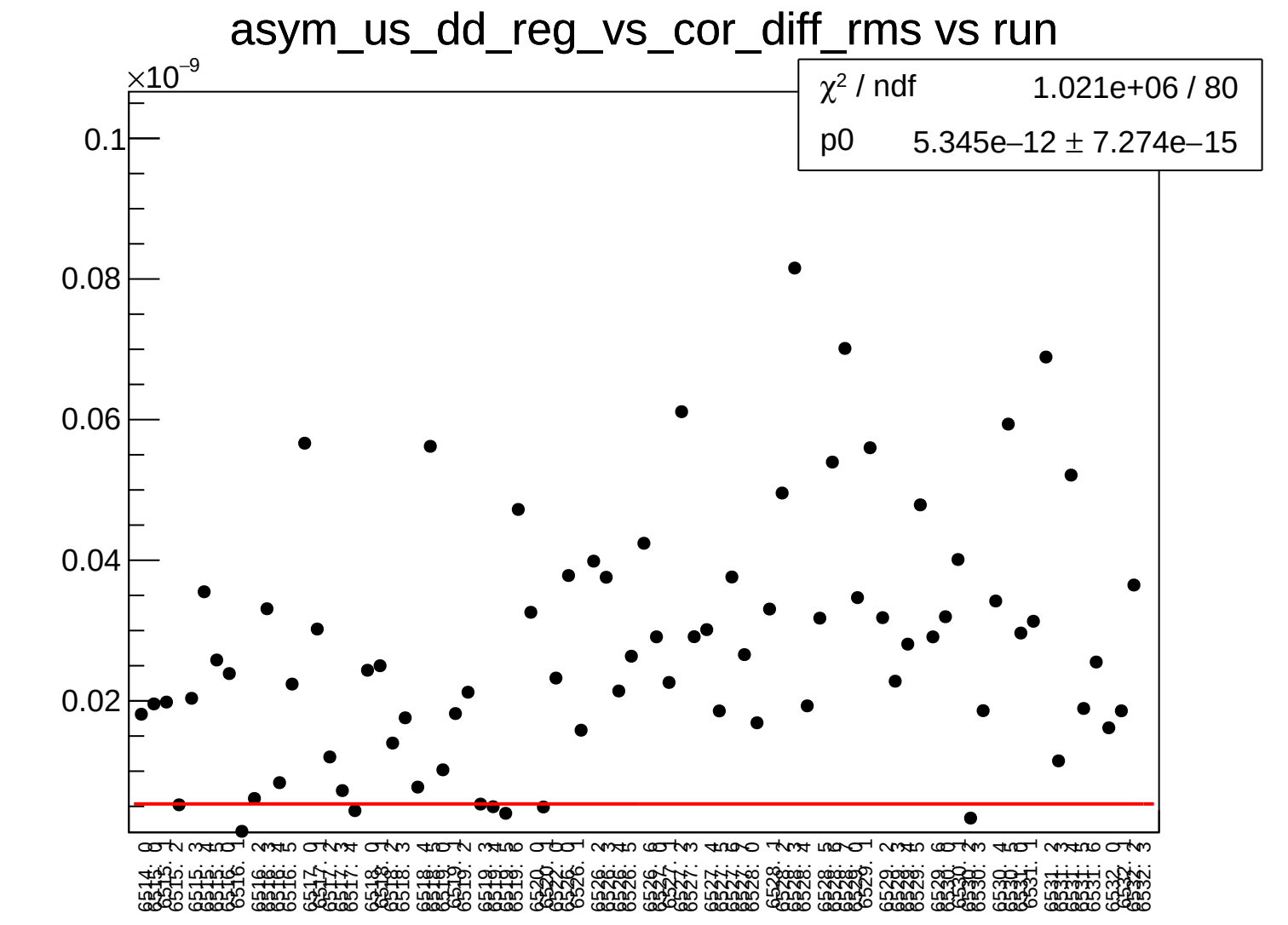

asym_us_dd_mean vs run
χ² / ndf 80.35 / 80
p0 332.6 ± 1079
pull
Entries 81
Mean −1191
Std Dev 0

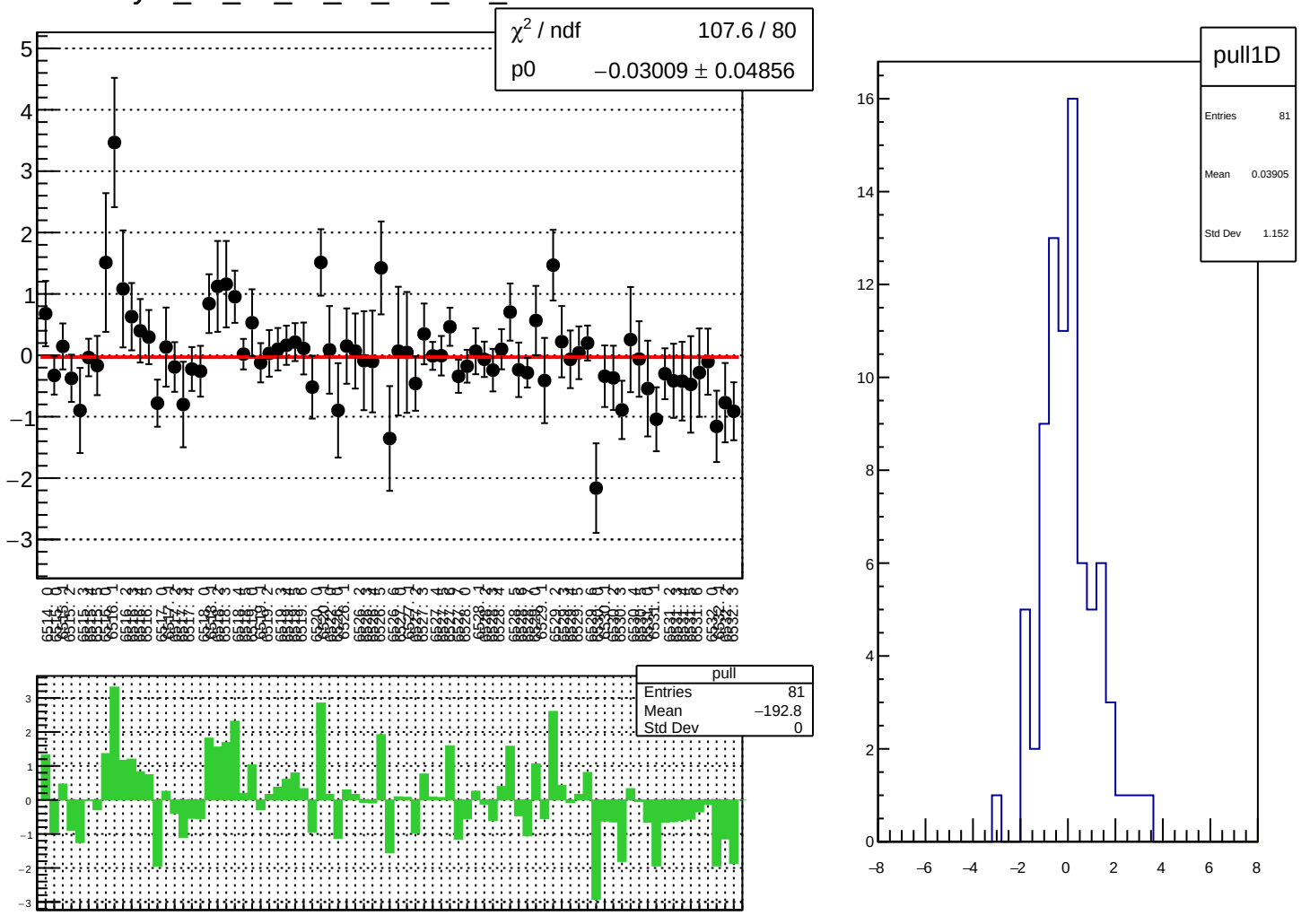

pull1D
Entries 81
Mean 0.002968
Std Dev 0.996

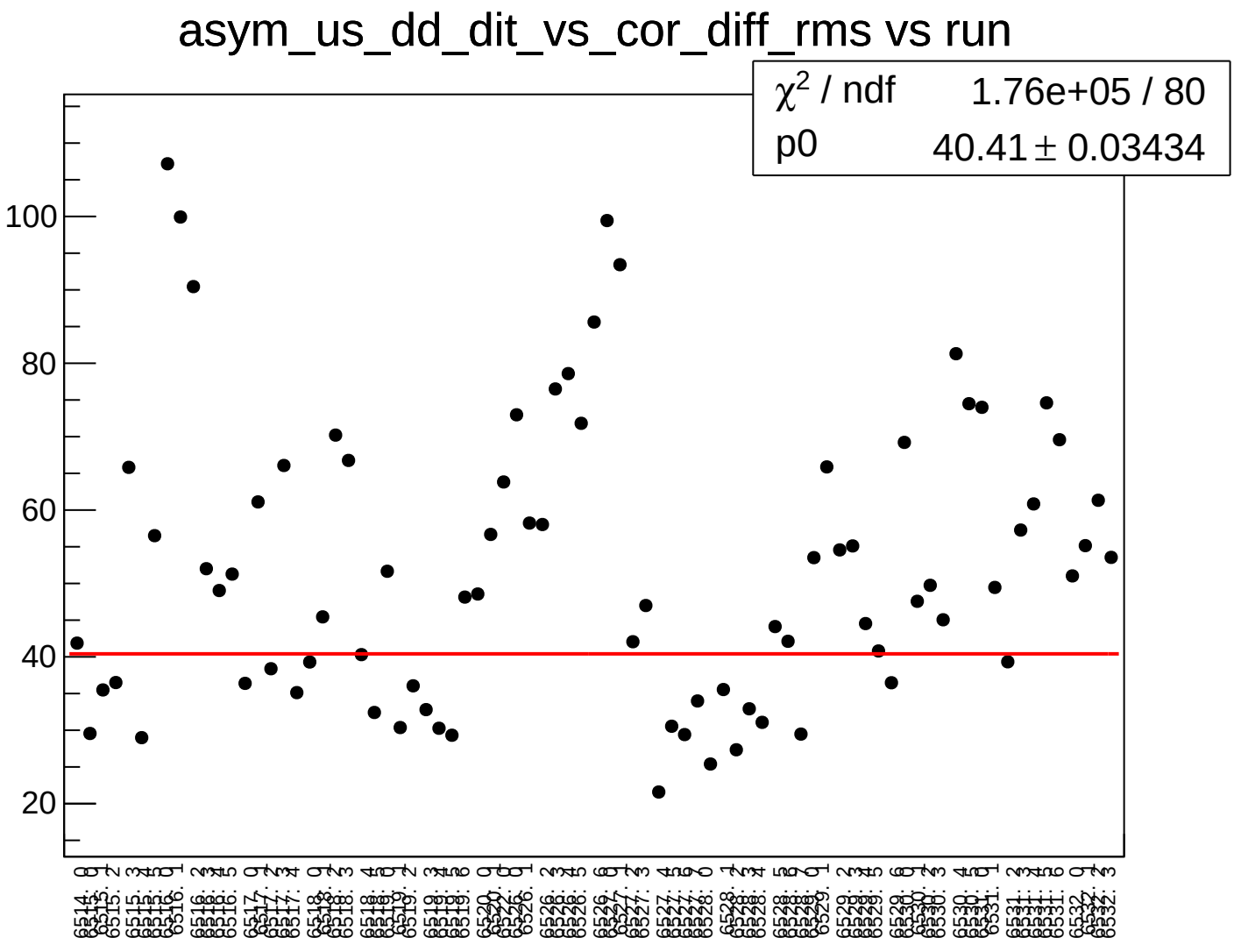

asym_us_dd_rms vs run
χ² / ndf 3279 / 80
p0 952.2 ± 0.7629
1020
1000
980
960
940
920
900
880
860

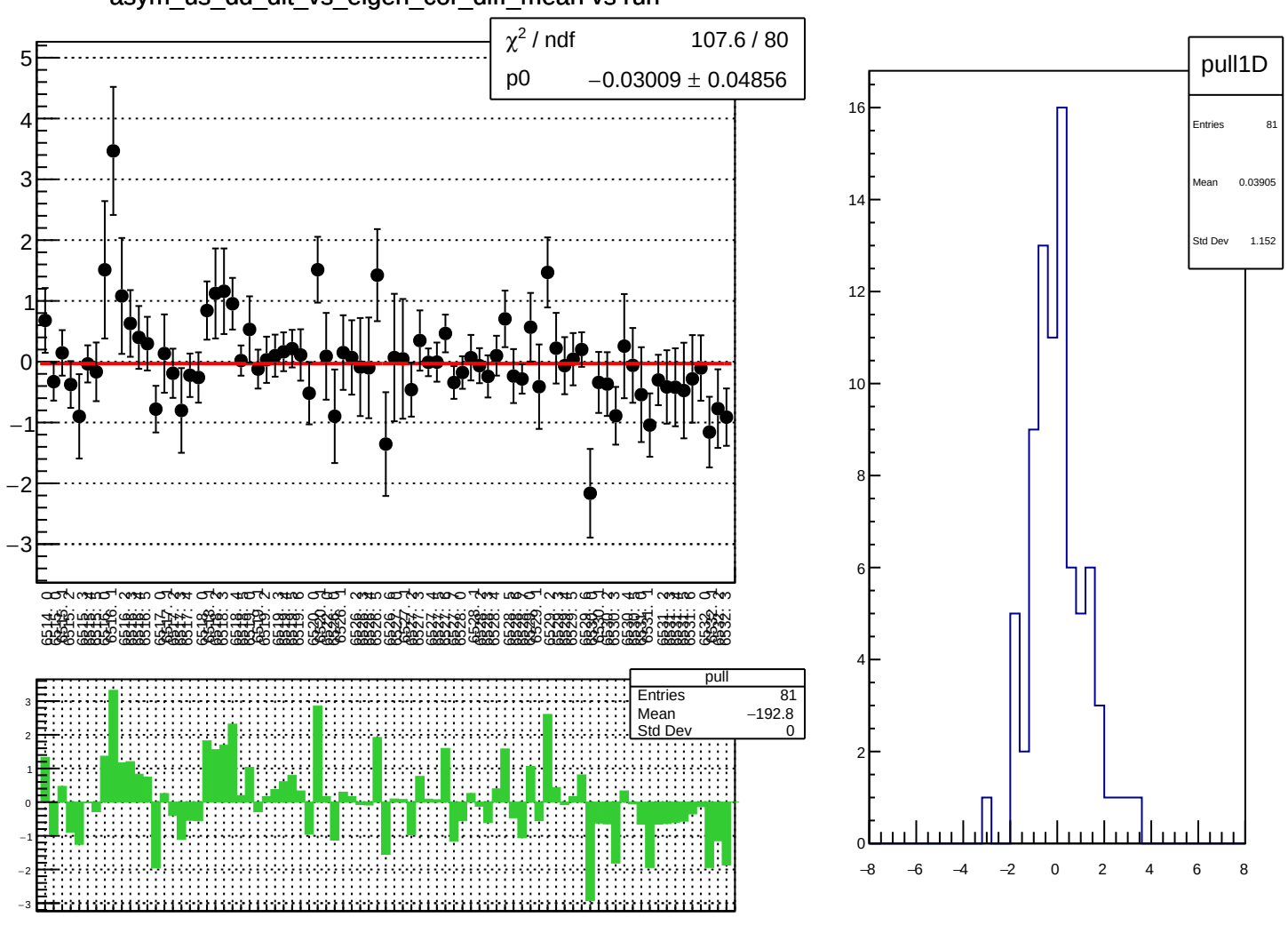

asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.42 / 80
p0 −1.771e−14 ± 1.029e−14
pull
Entries 81
Mean 362.5
Std Dev 0

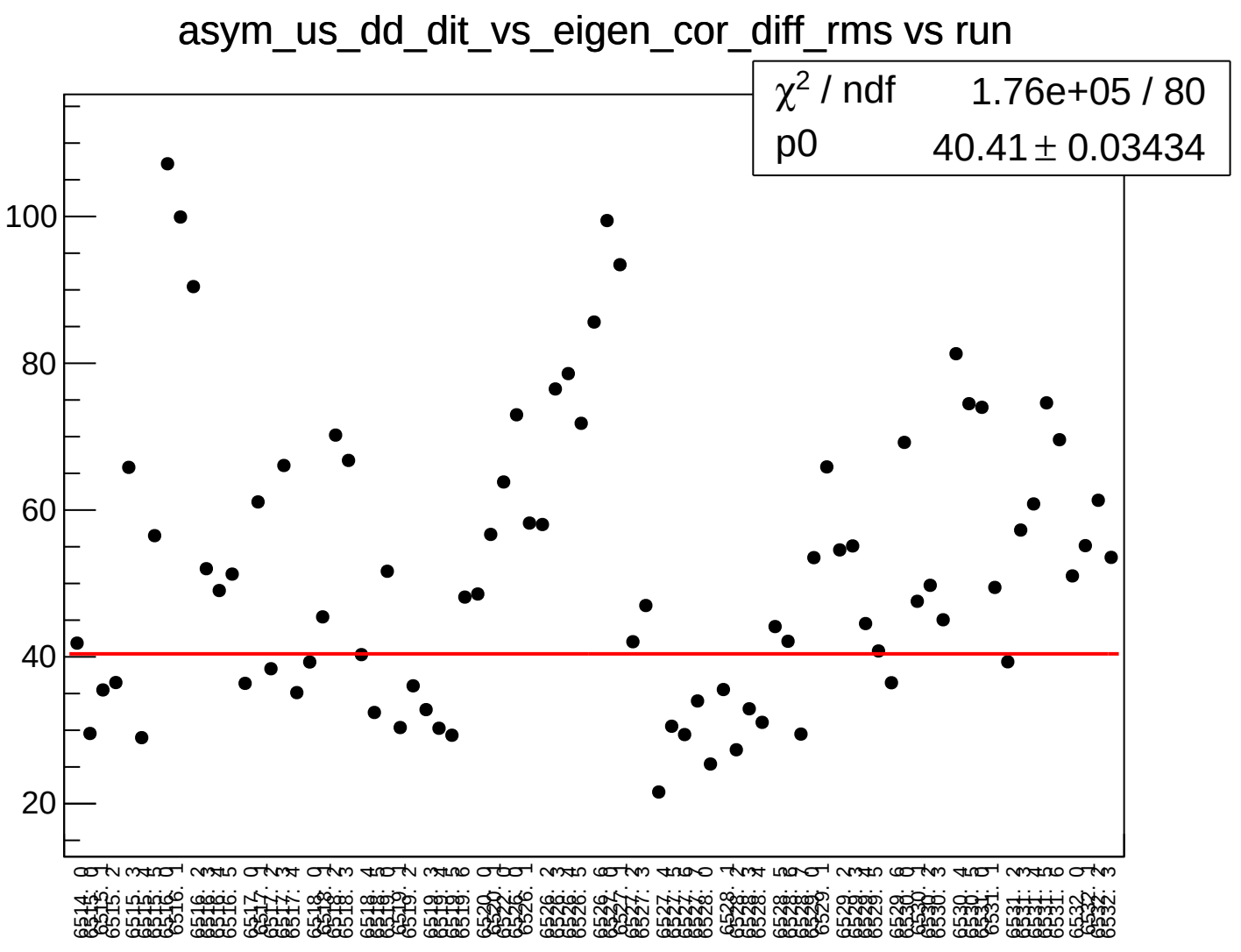

pull1D
Entries 81
Mean −0.01448
Std Dev 1.021

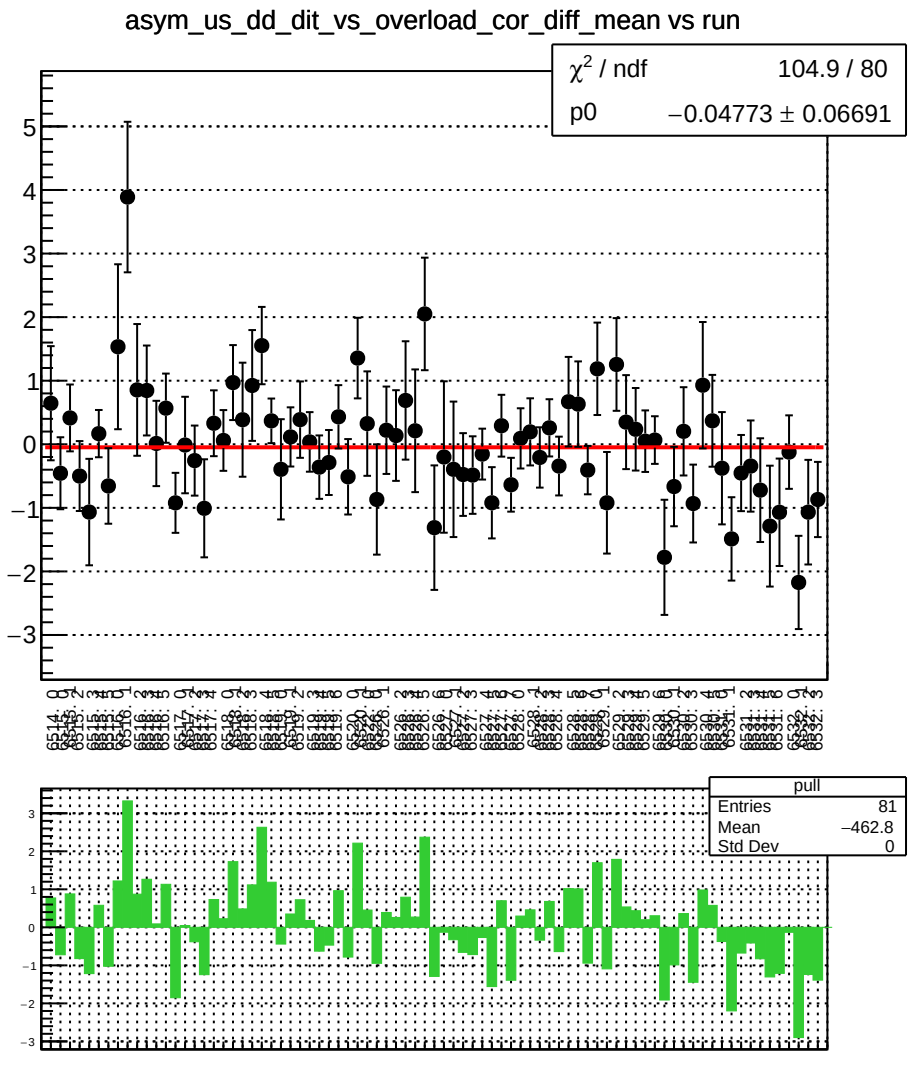

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.021e+06 / 80
p0 5.345e−12 ± 7.274e−15
0.1
0.08
0.06
0.04
0.02

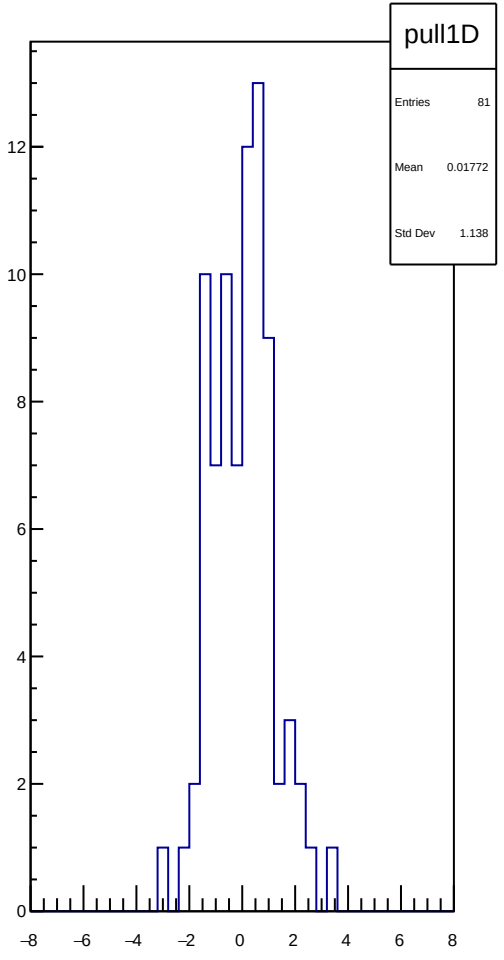

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 107.6 / 80
p0 −0.03009 ± 0.04856
pull
Entries 81
Mean −192.8
Std Dev 0
pull1D
Entries 81
Mean 0.03905
Std Dev 1.152

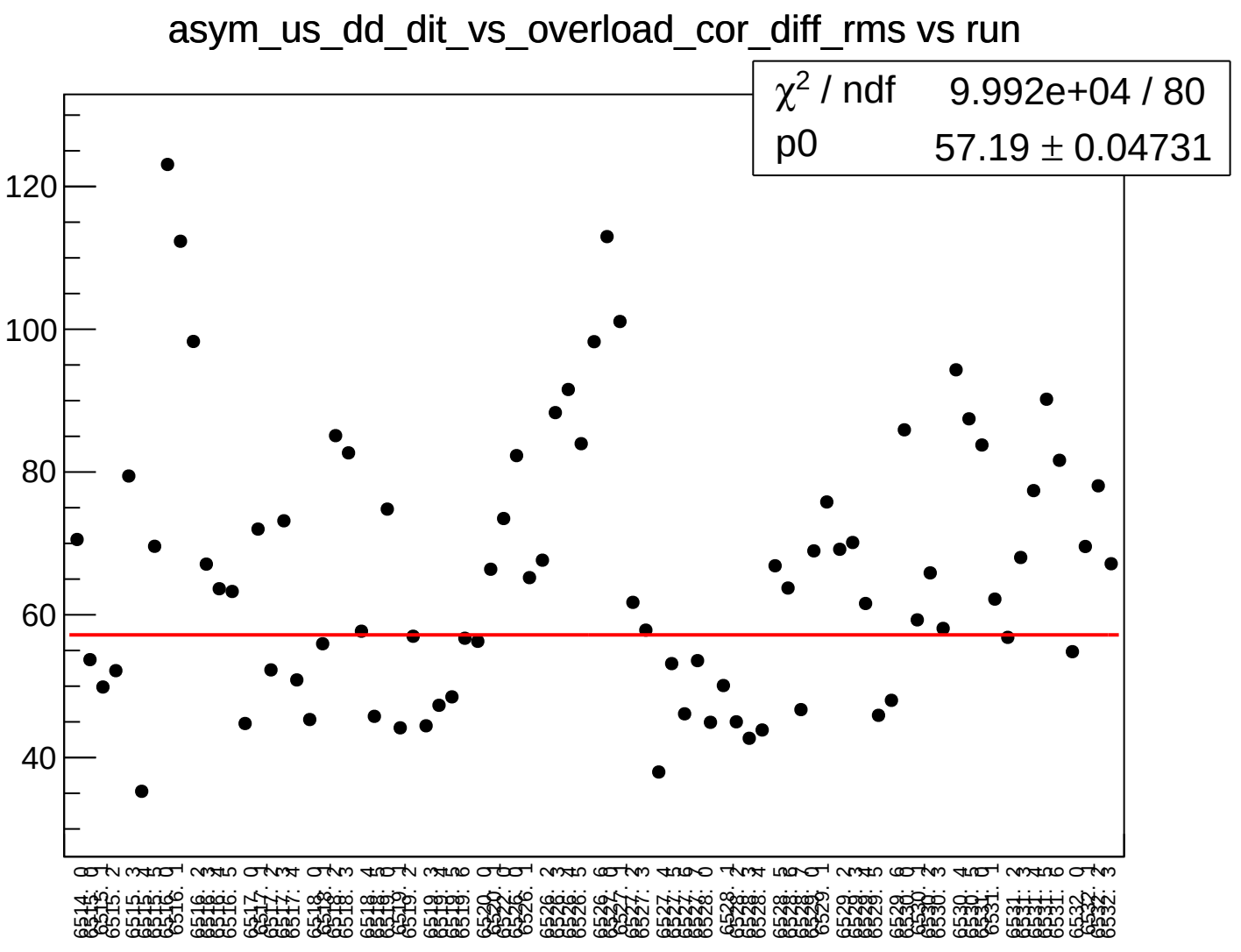

asym_us_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.76e+05 / 80
p0 40.41 ± 0.03434
100
80
60
40
20

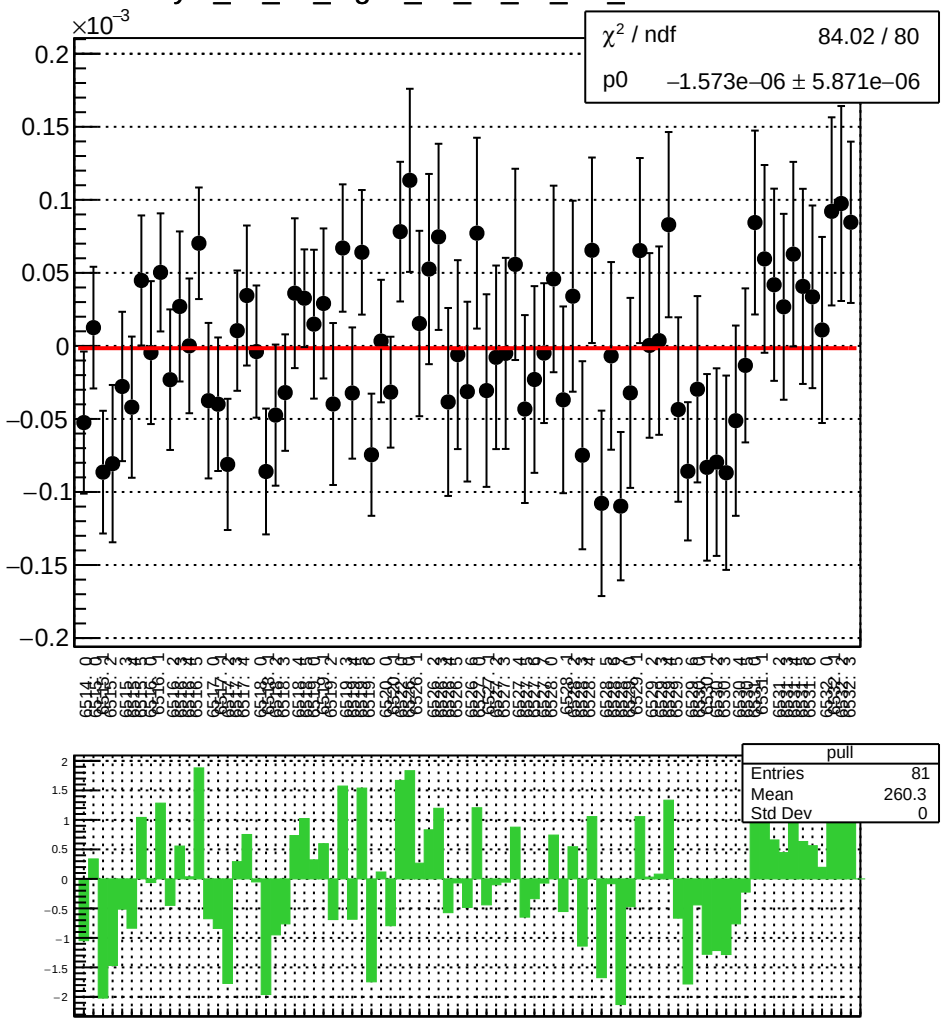

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.6 / 80
p0 −0.03009 ± 0.04856
pull
Entries 81
Mean −192.8
Std Dev 0
pull1D
Entries 81
Mean 0.03905
Std Dev 1.152

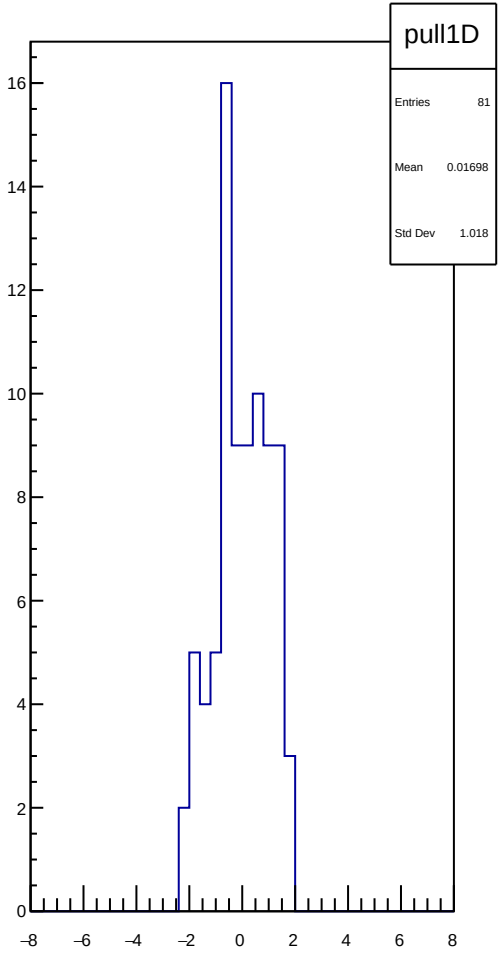

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.76e+05 / 80
p0 40.41 ± 0.03434
100
80
60
40
20

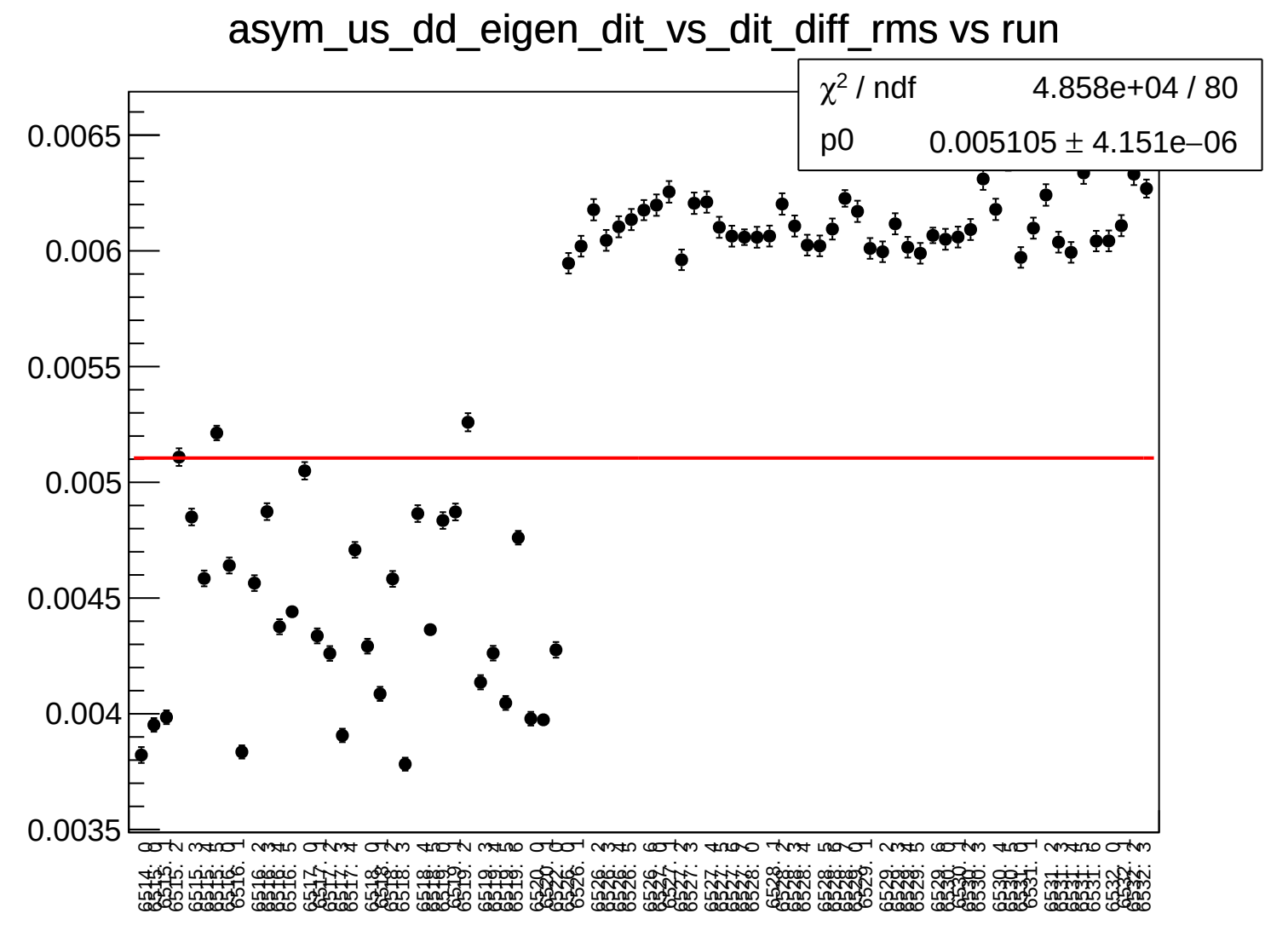

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 104.9 / 80
p0 −0.04773 ± 0.06691
pull
Entries 81
Mean −462.8
Std Dev 0

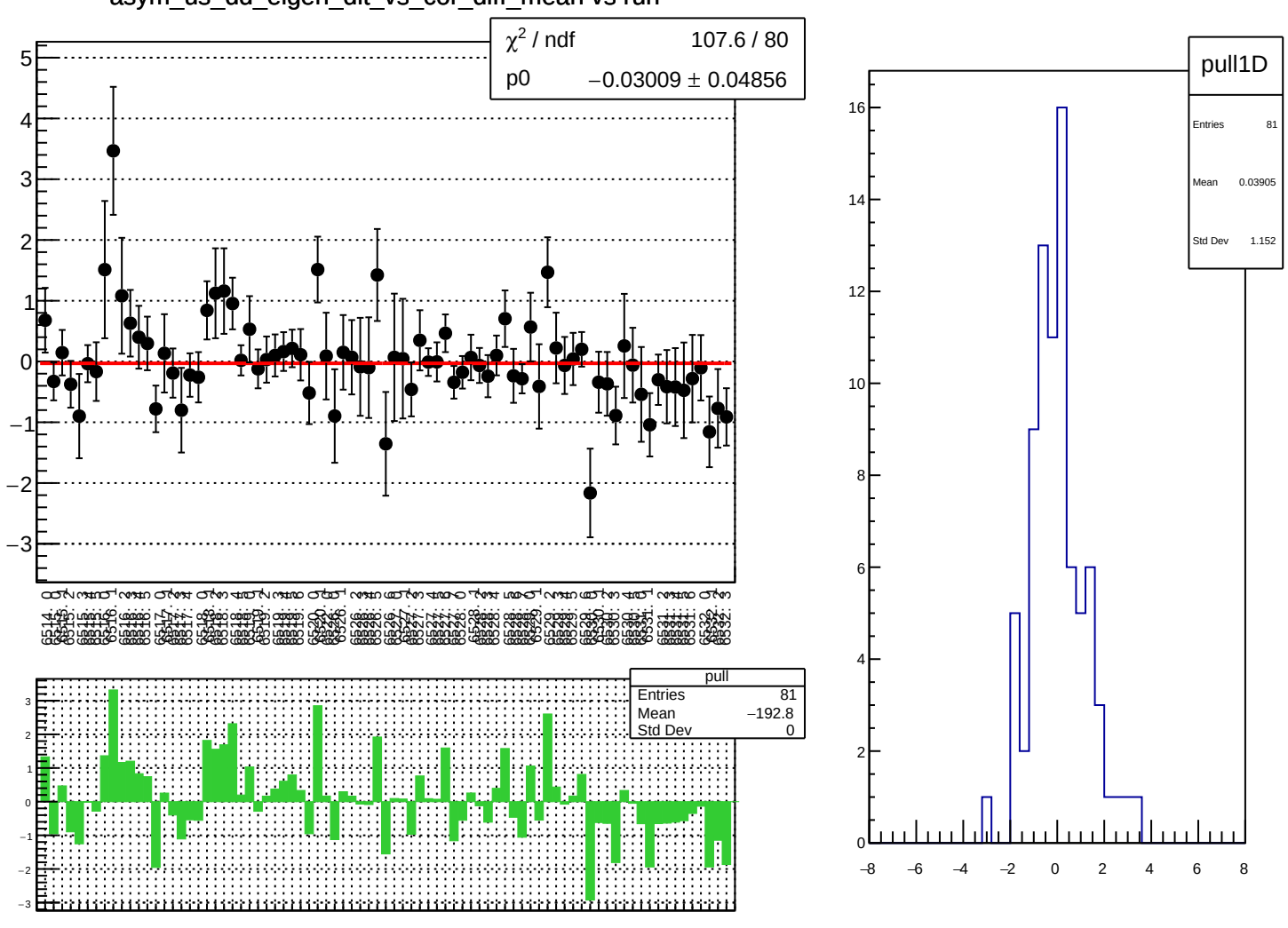

pull1D
Entries 81
Mean 0.01772
Std Dev 1.138

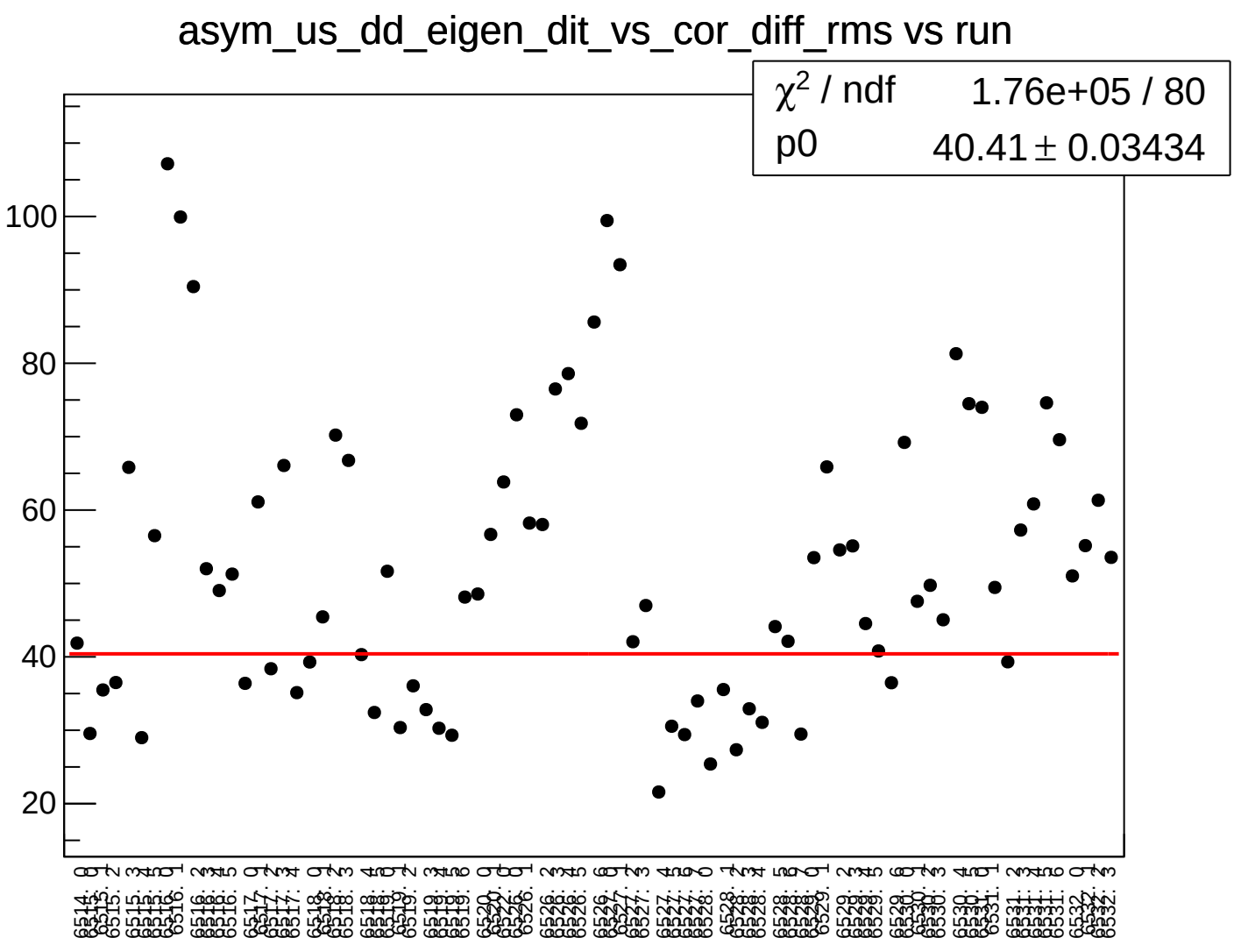

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ^2 / ndf 9.992e+04 / 80
p0 57.19 ± 0.04731
120
100
80
60
40

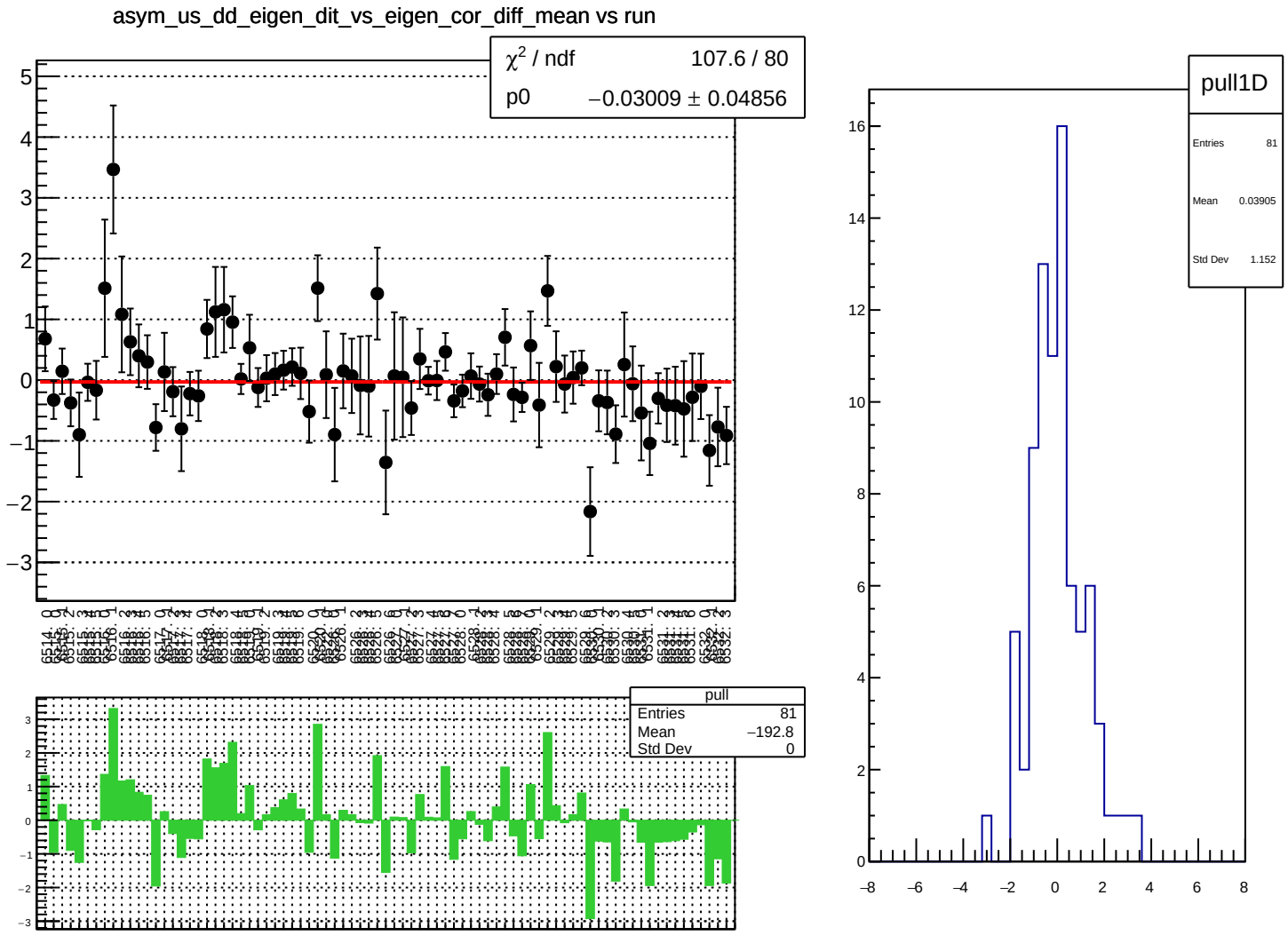

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.02 / 80
p0 −1.573e−06 ± 5.871e−06
pull
Entries 81
Mean 260.3
Std Dev 0

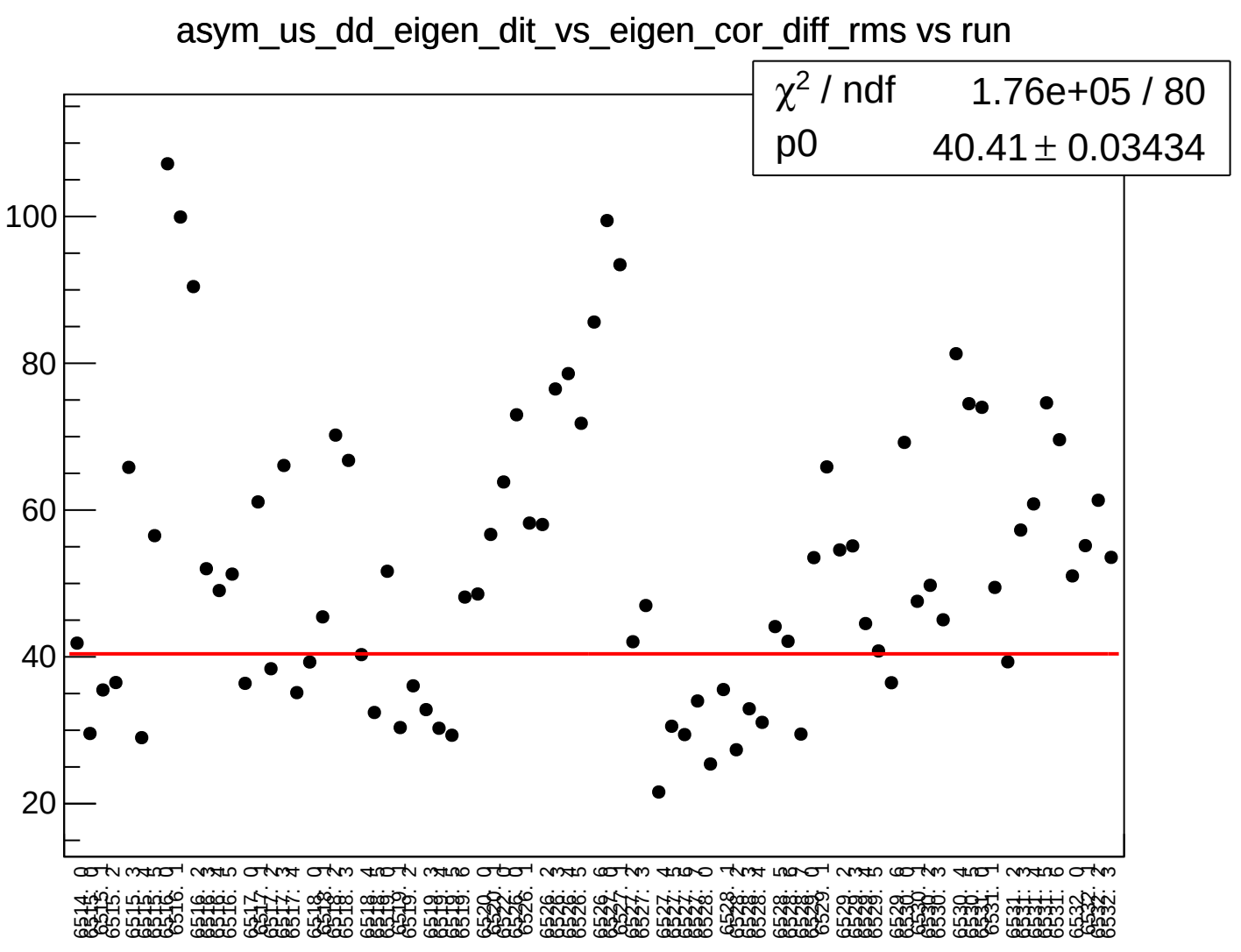

pull1D
Entries 81
Mean 0.01698
Std Dev 1.018

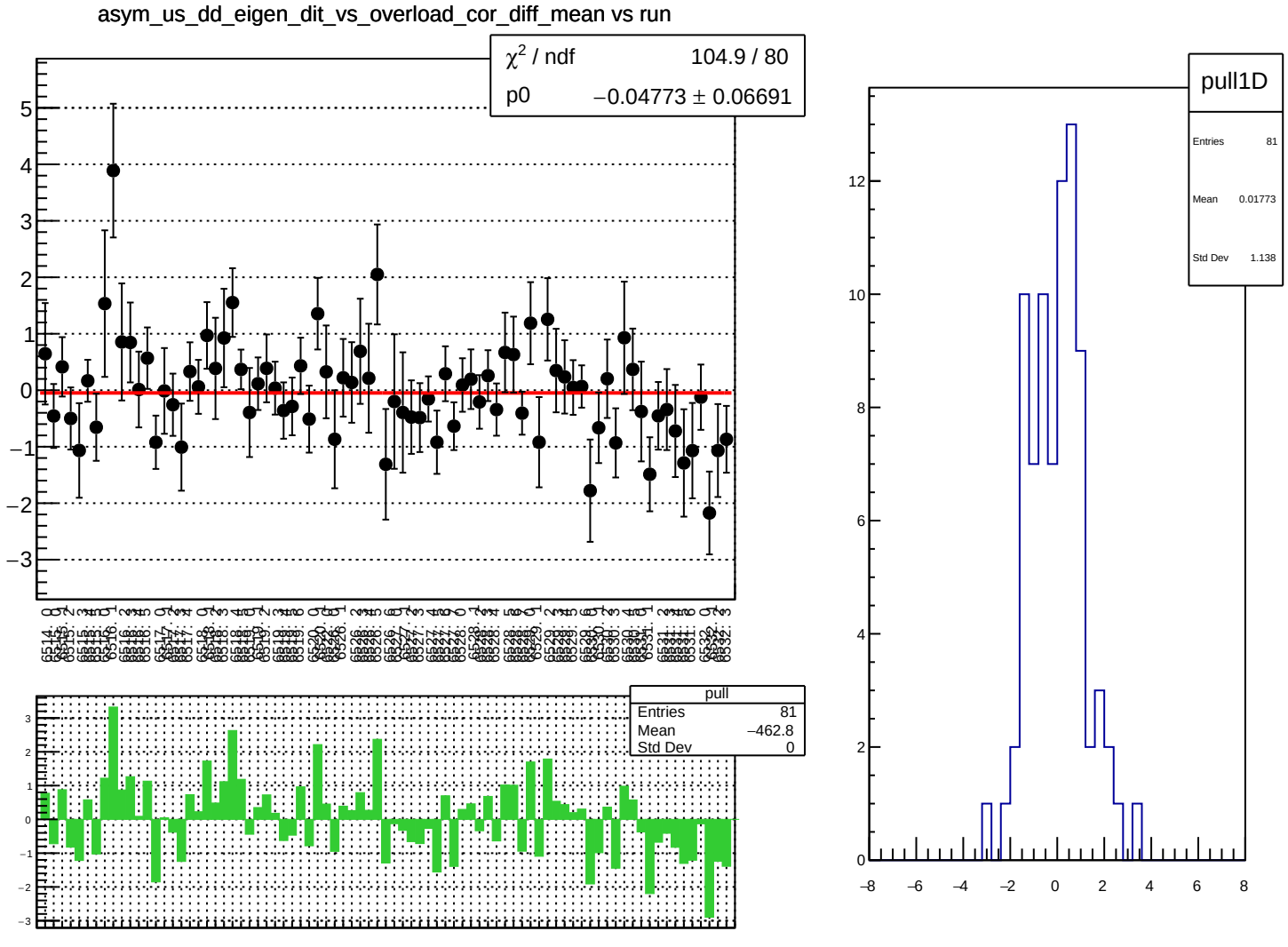

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.858e+04 / 80
p0 0.005105 ± 4.151e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035

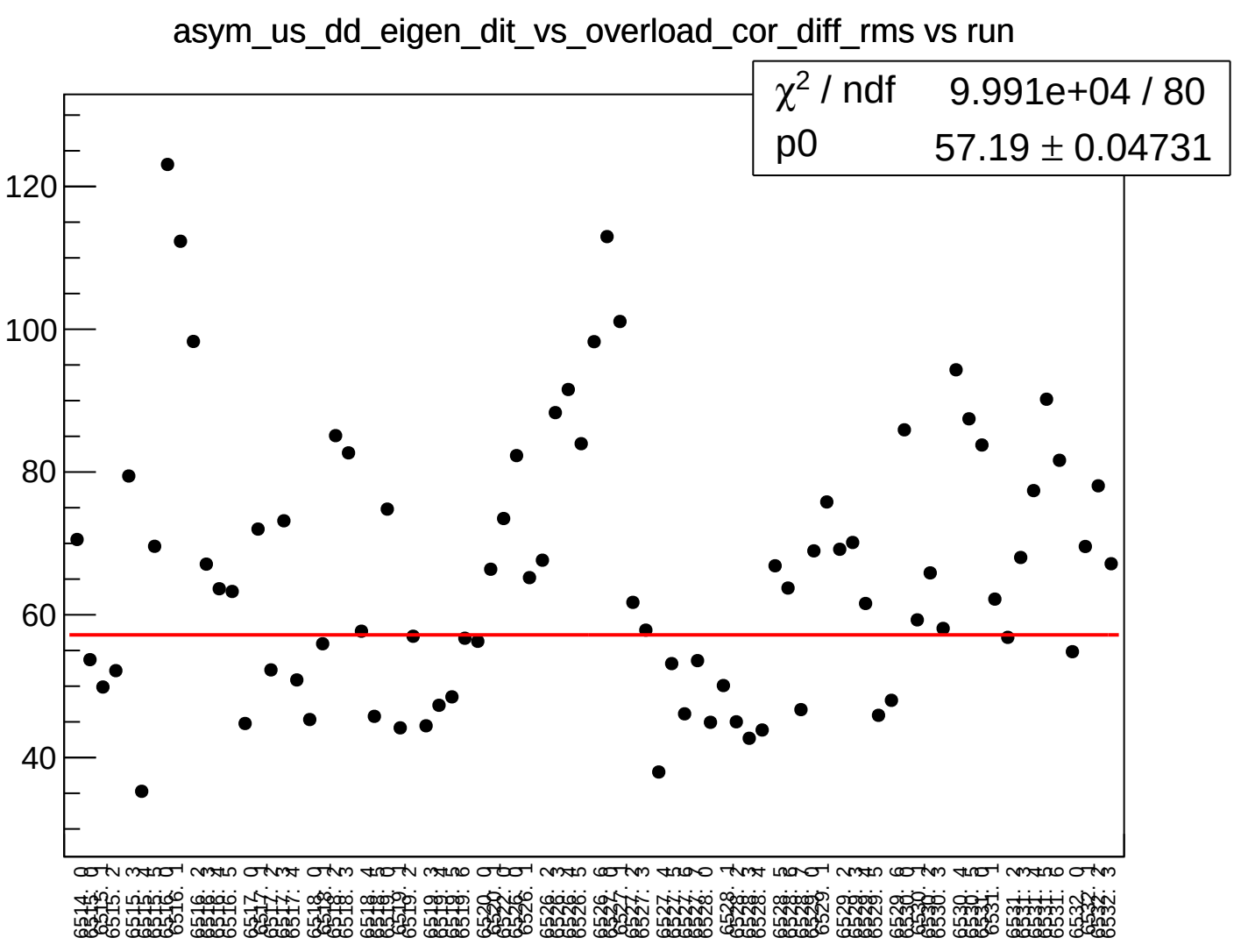

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 107.6 / 80
p0 −0.03009 ± 0.04856
pull
Entries 81
Mean −192.8
Std Dev 0
pull1D
Entries 81
Mean 0.03905
Std Dev 1.152

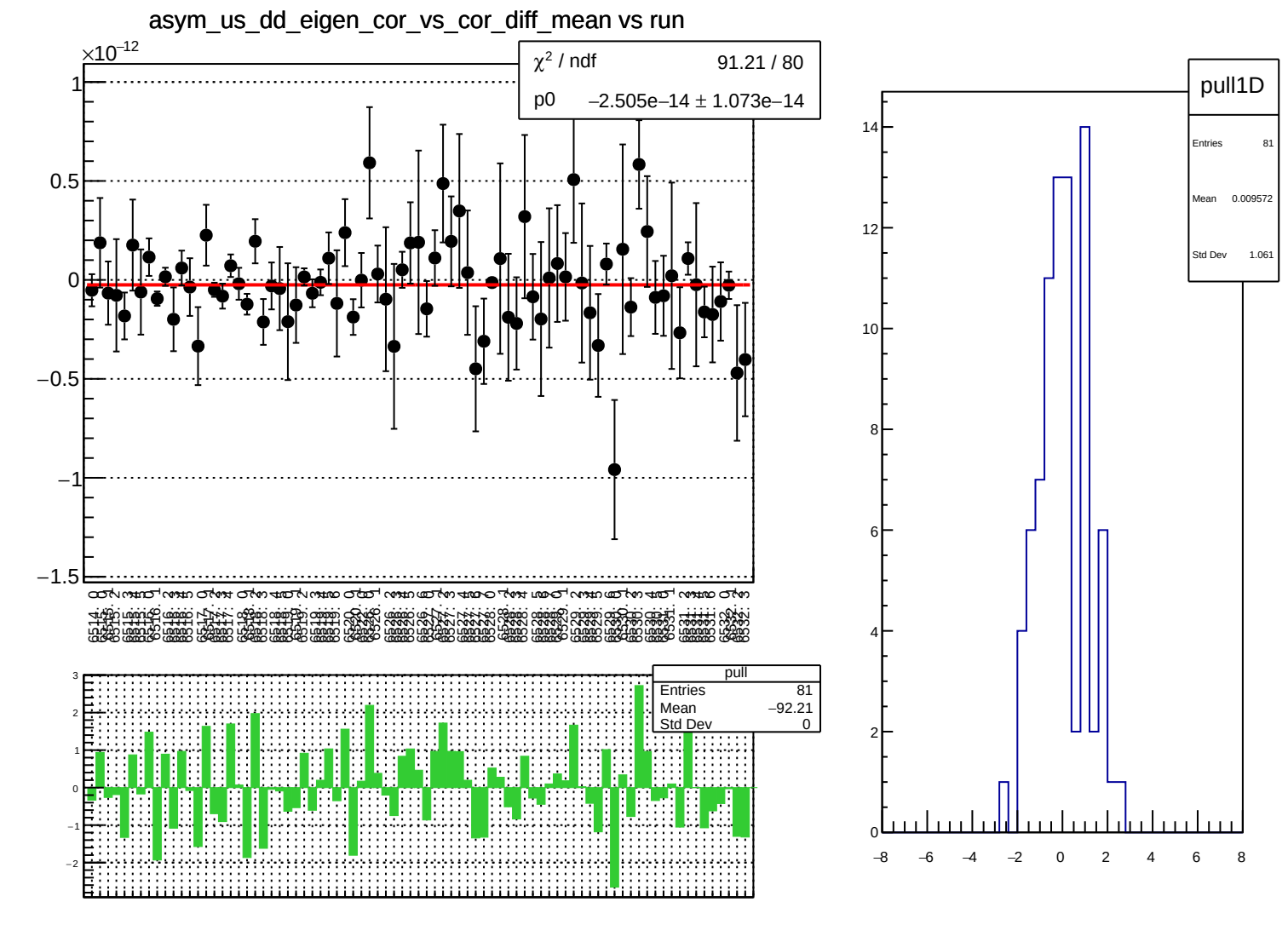

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.76e+05 / 80
p0 40.41 ± 0.03434
100
80
60
40
20

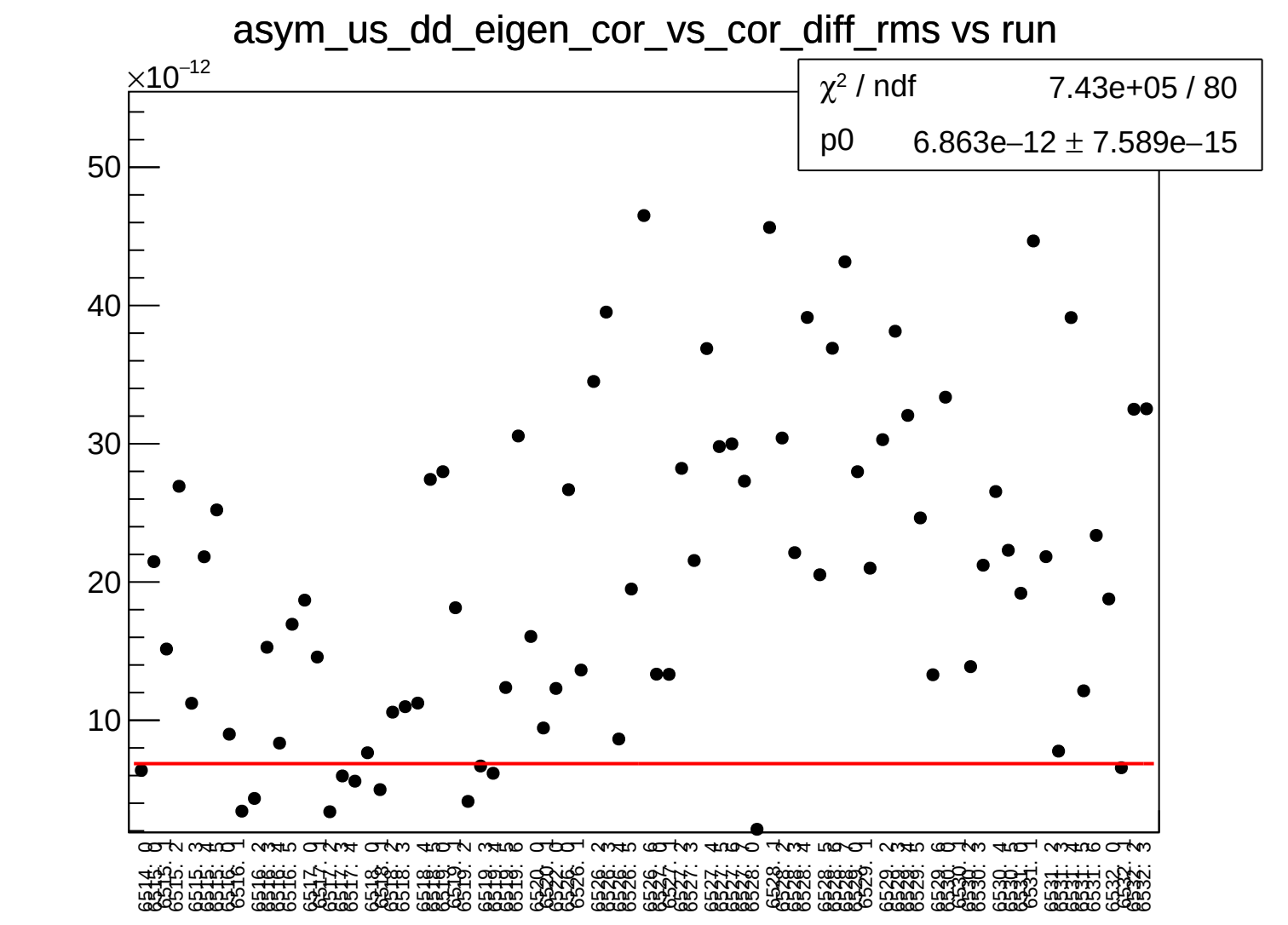

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.6 / 80
p0 −0.03009 ± 0.04856
pull
Entries 81
Mean −192.8
Std Dev 0
pull1D
Entries 81
Mean 0.03905
Std Dev 1.152

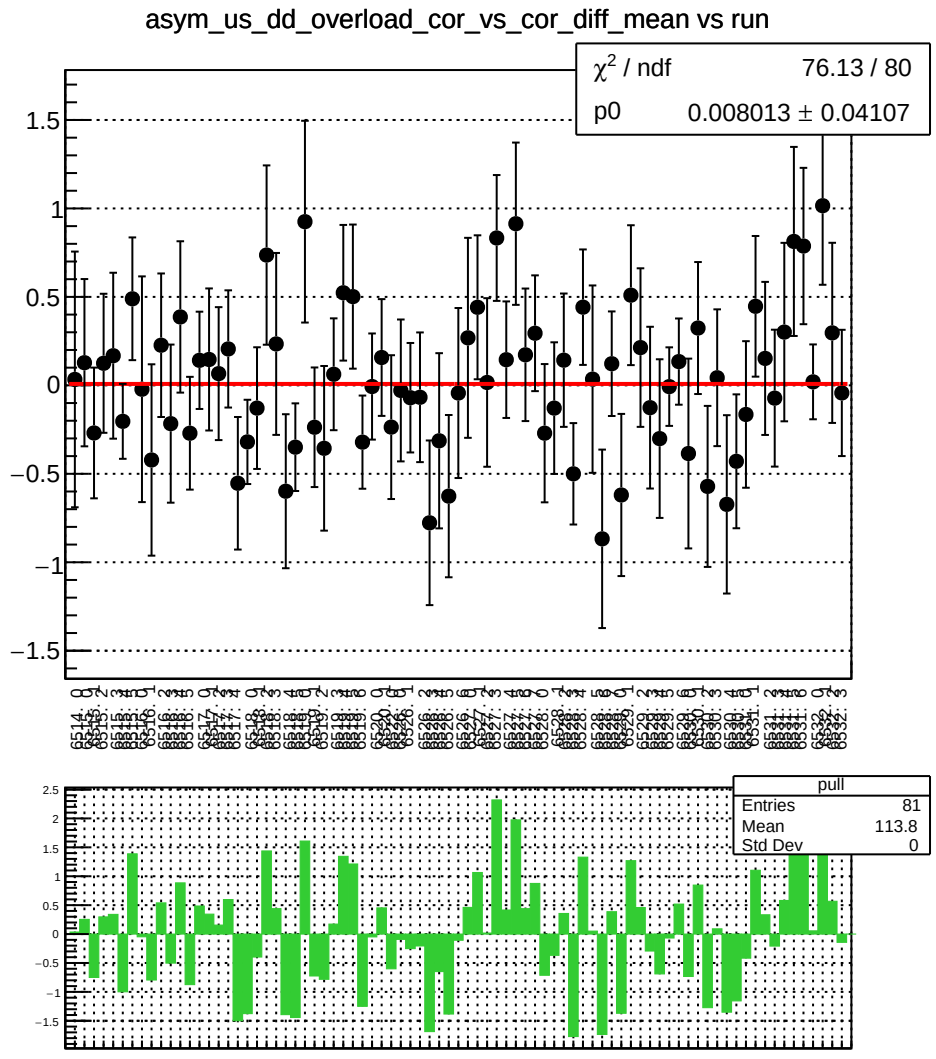

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.76e+05 / 80
p0 40.41 ± 0.03434
100
80
60
40
20

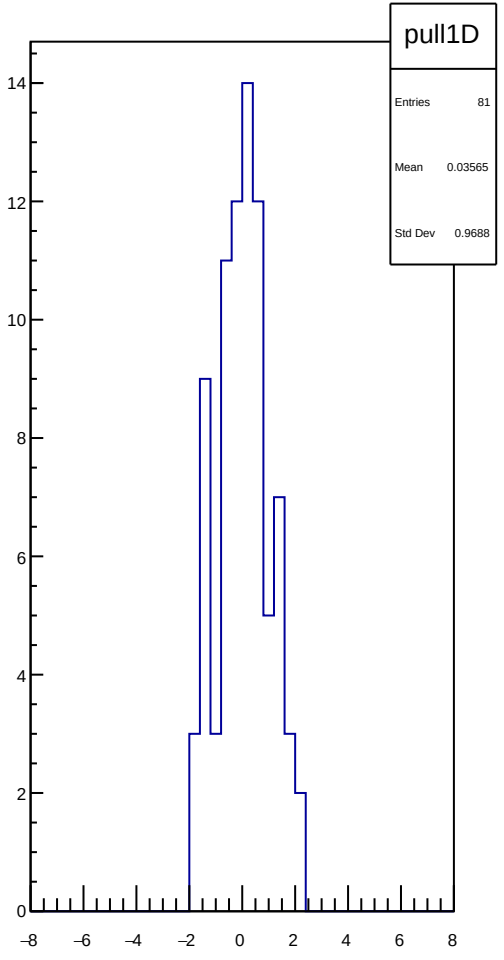

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 104.9 / 80
p0 −0.04773 ± 0.06691
pull
Entries 81
Mean −462.8
Std Dev 0
pull1D
Entries 81
Mean 0.01773
Std Dev 1.138

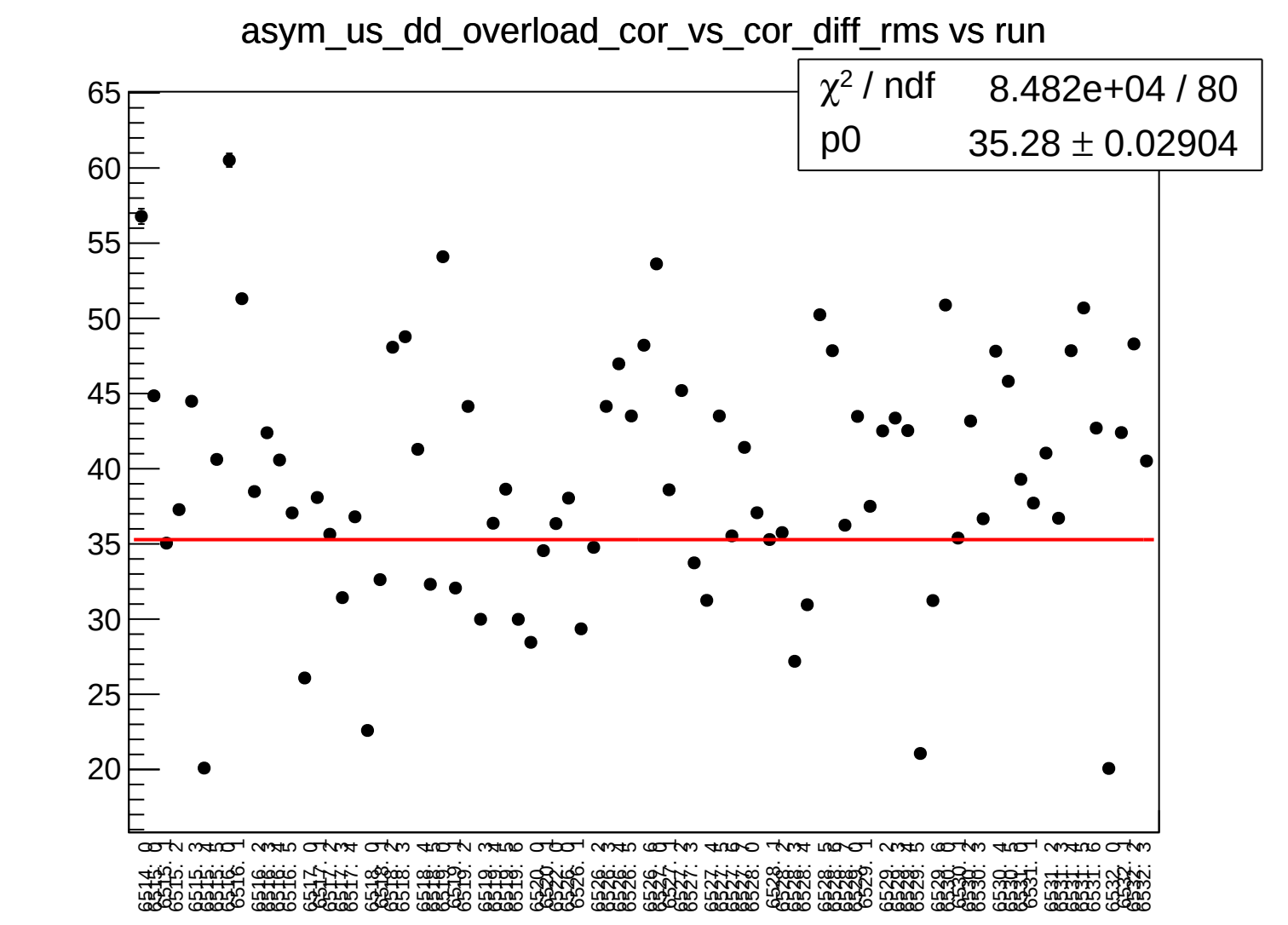

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 9.991e+04 / 80
p0 57.19 ± 0.04731
120
100
80
60
40

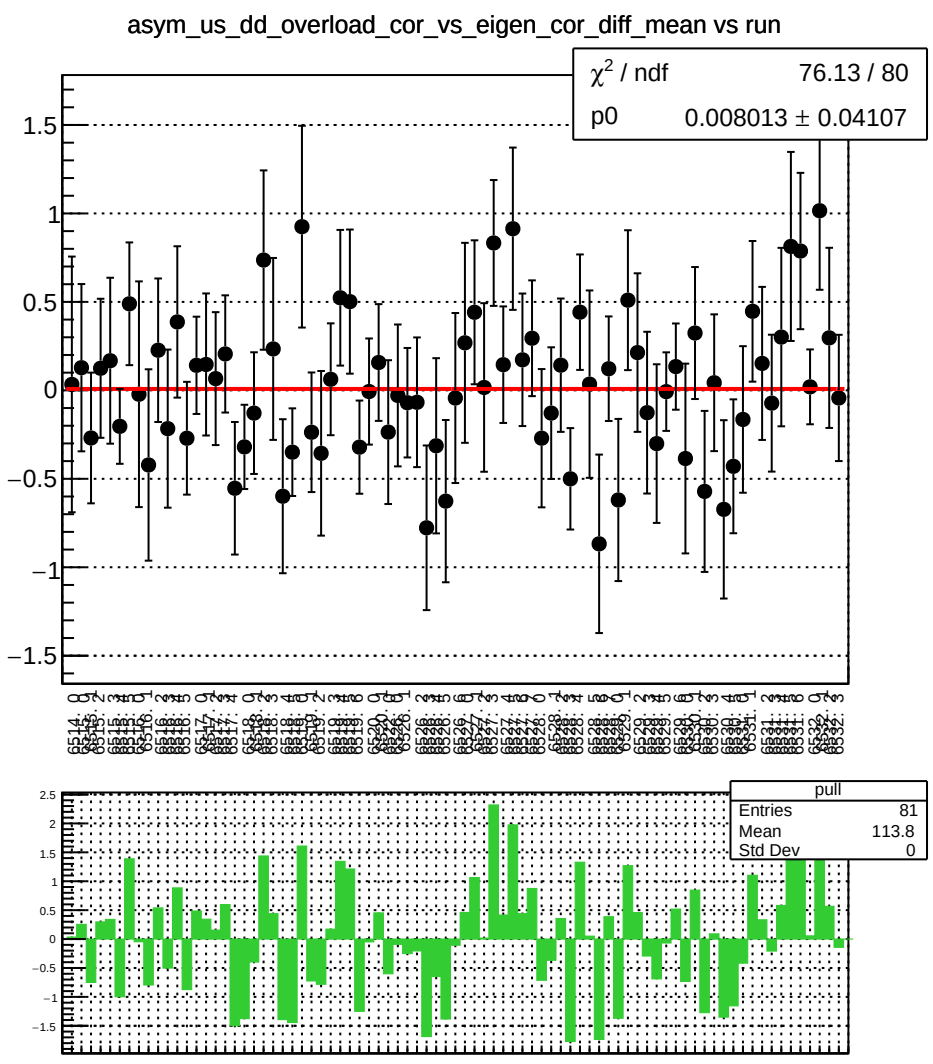

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.21 / 80
p0 −2.505e−14 ± 1.073e−14
pull
Entries 81
Mean −92.21
Std Dev 0
pull1D
Entries 81
Mean 0.009572
Std Dev 1.061

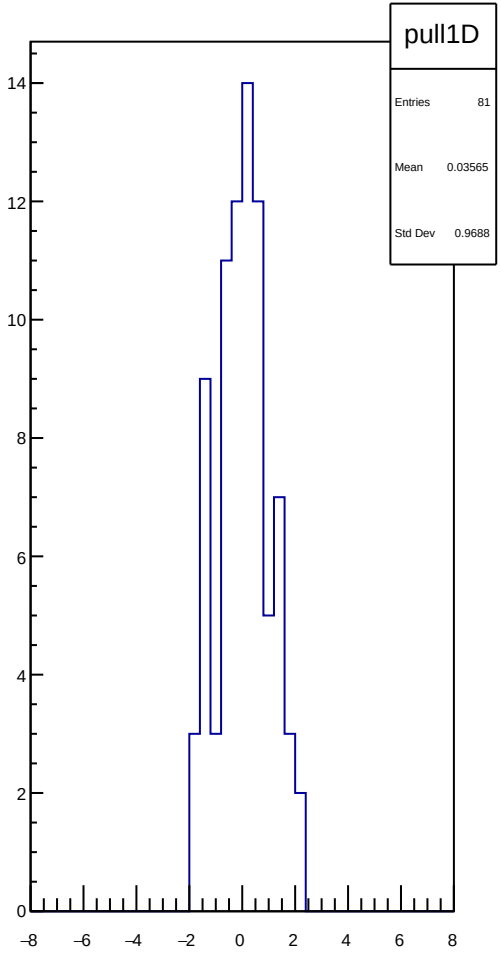

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.43e+05 / 80
p0 6.863e−12 ± 7.589e−15
50
40
30
20
10

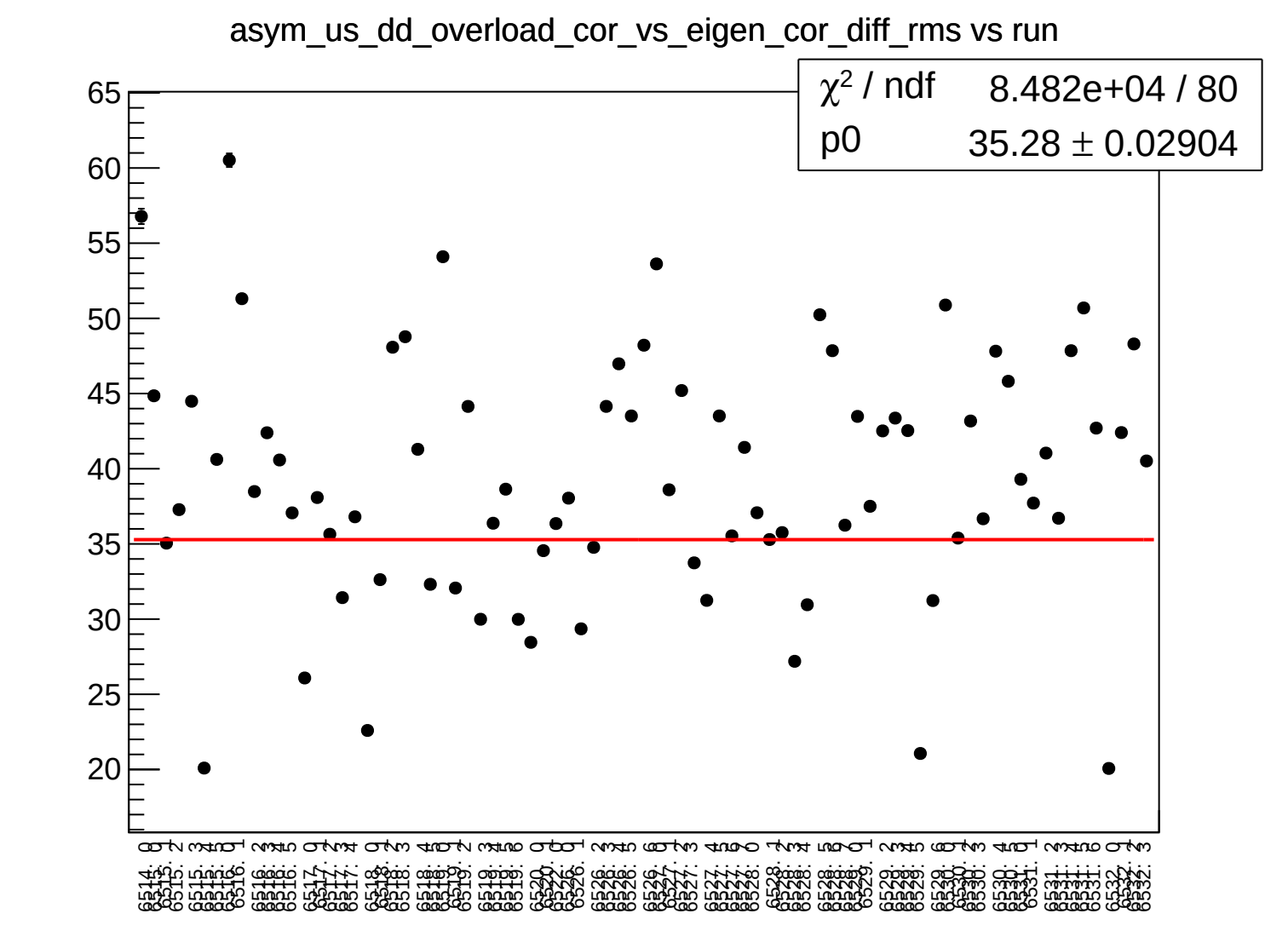

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 76.13 / 80
p0 0.008013 ± 0.04107
pull
Entries 81
Mean 113.8
Std Dev 0

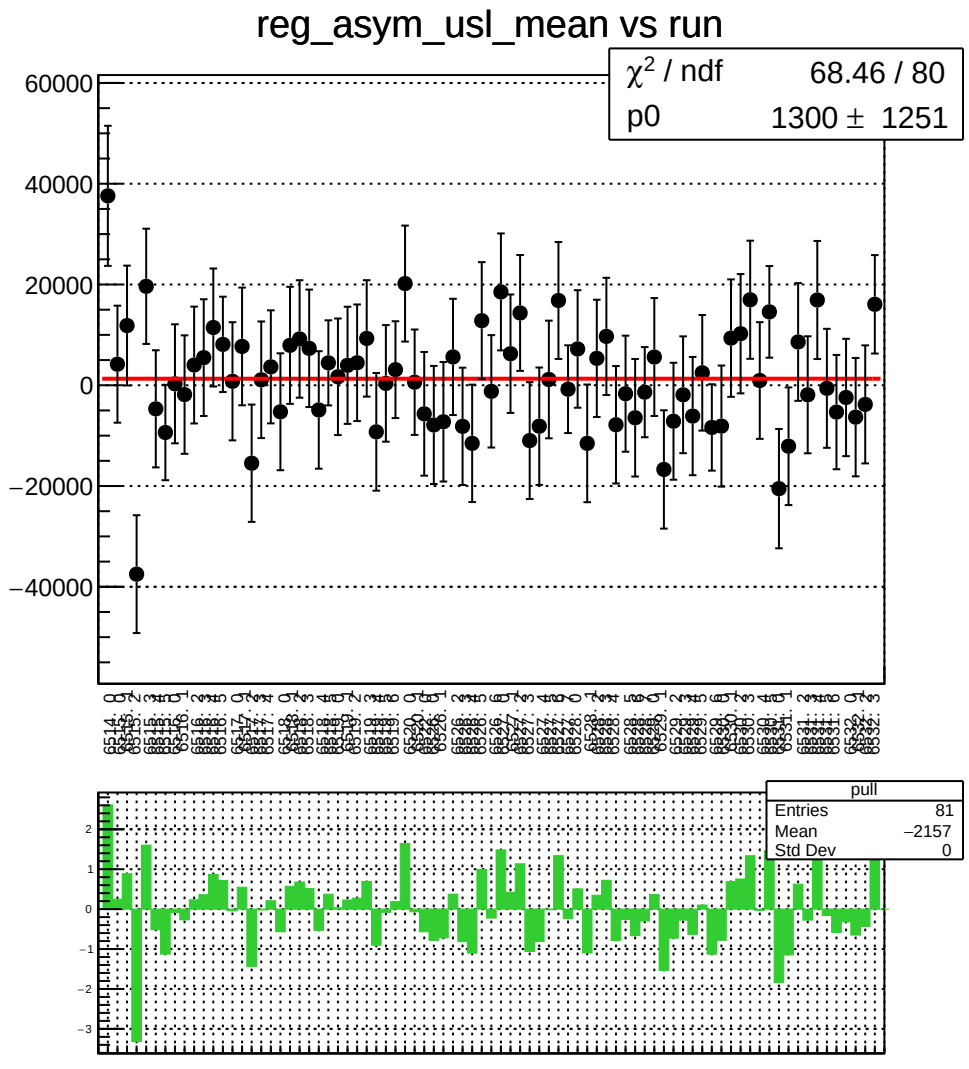

pull1D
Entries 81
Mean 0.03565
Std Dev 0.9688

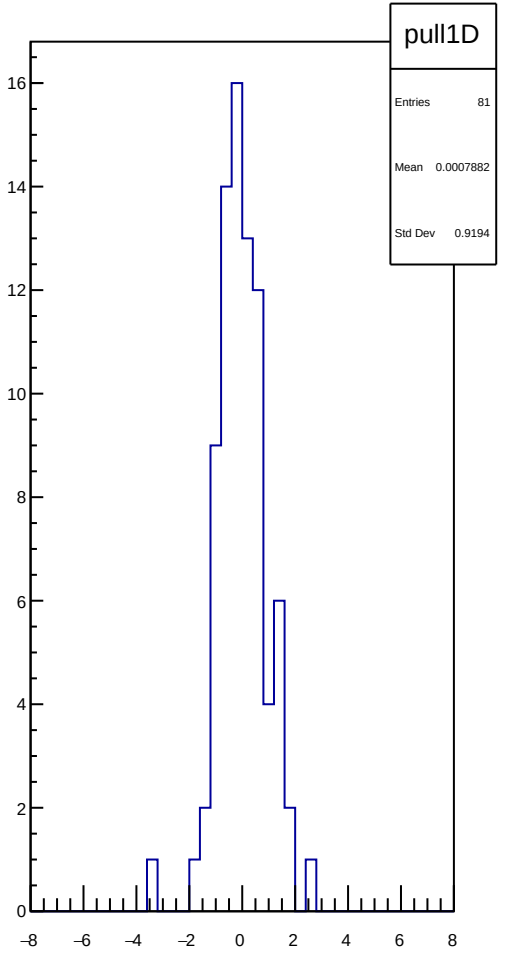

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 8.482e+04 / 80
p0 35.28 ± 0.02904
65
60
55
50
45
40
35
30
25
20

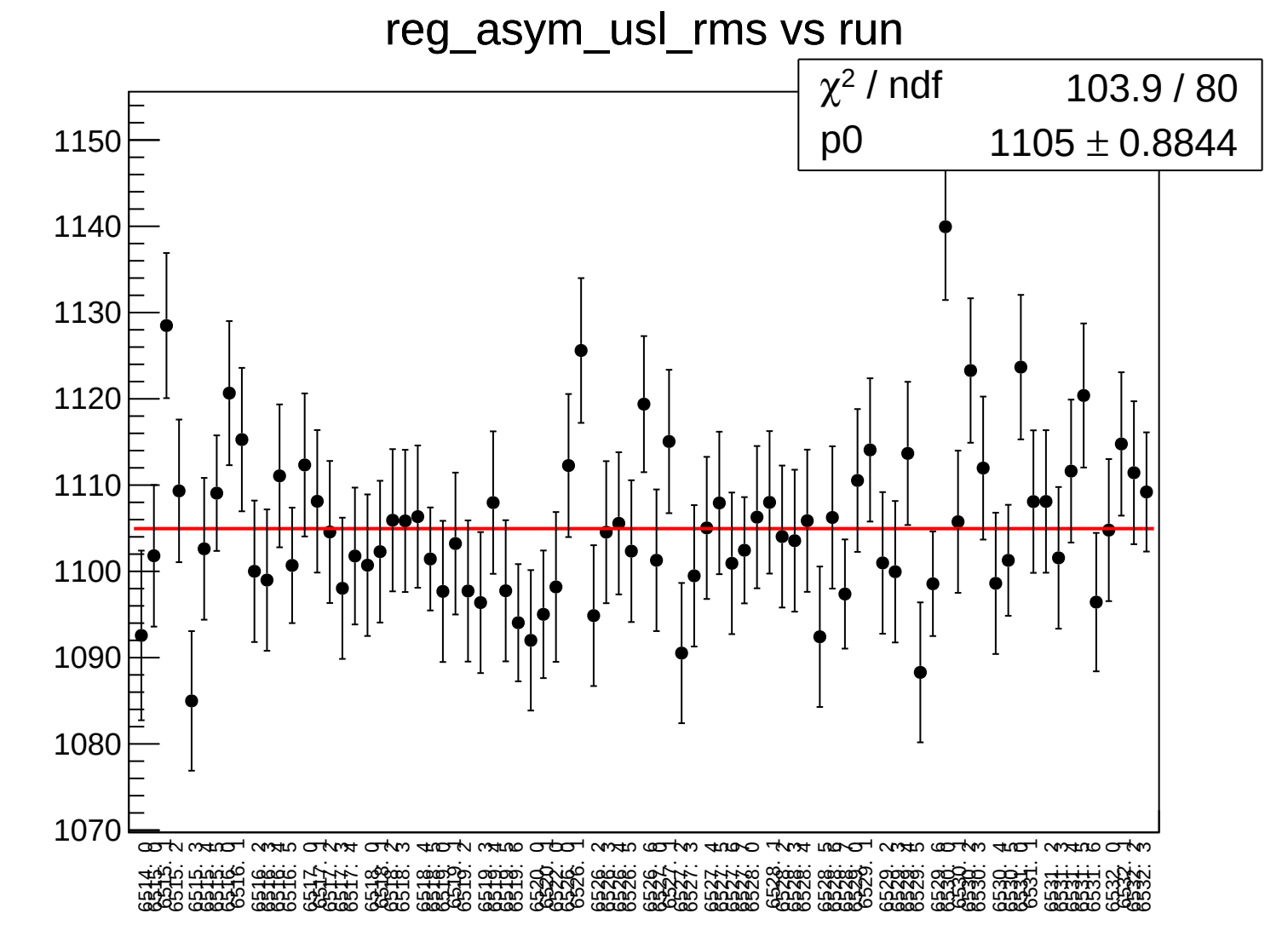

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.13 / 80
p0 0.008013 ± 0.04107
pull
Entries 81
Mean 113.8
Std Dev 0

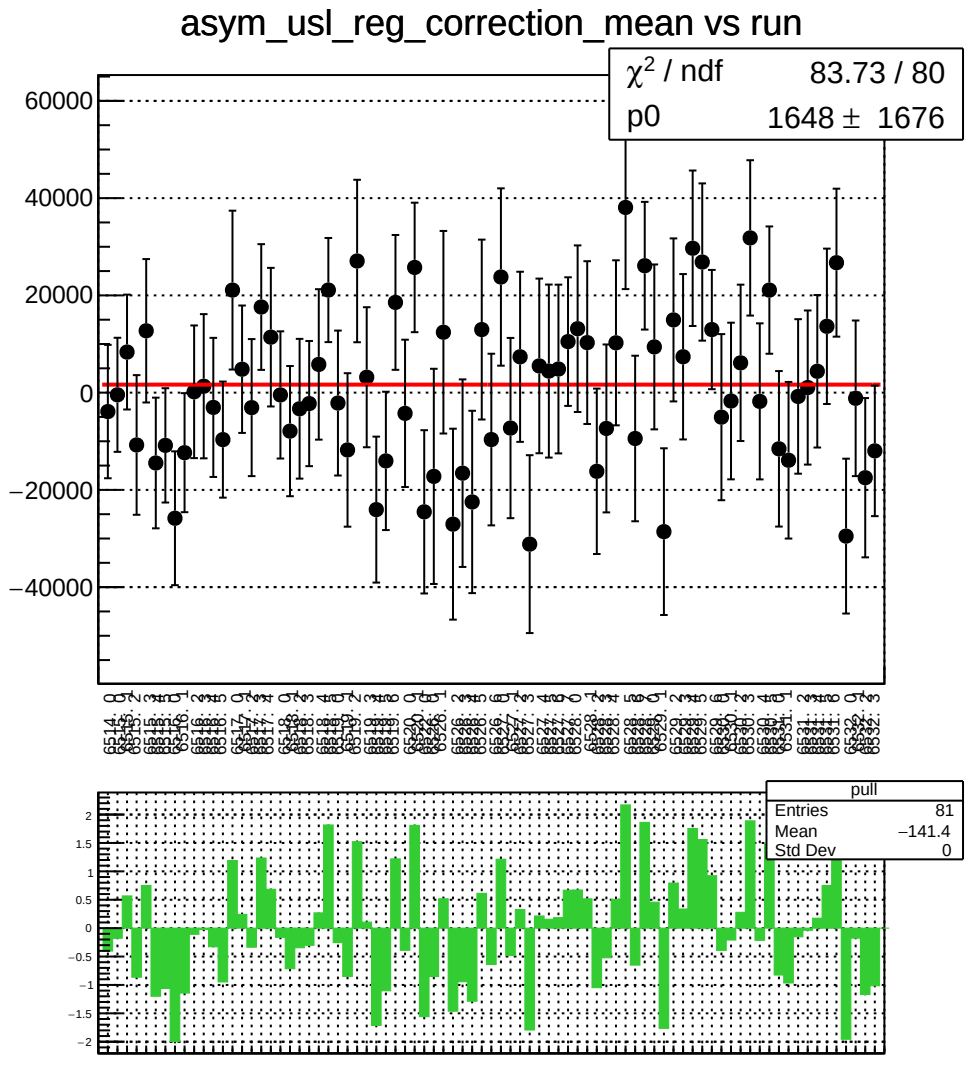

pull1D
Entries 81
Mean 0.03565
Std Dev 0.9688

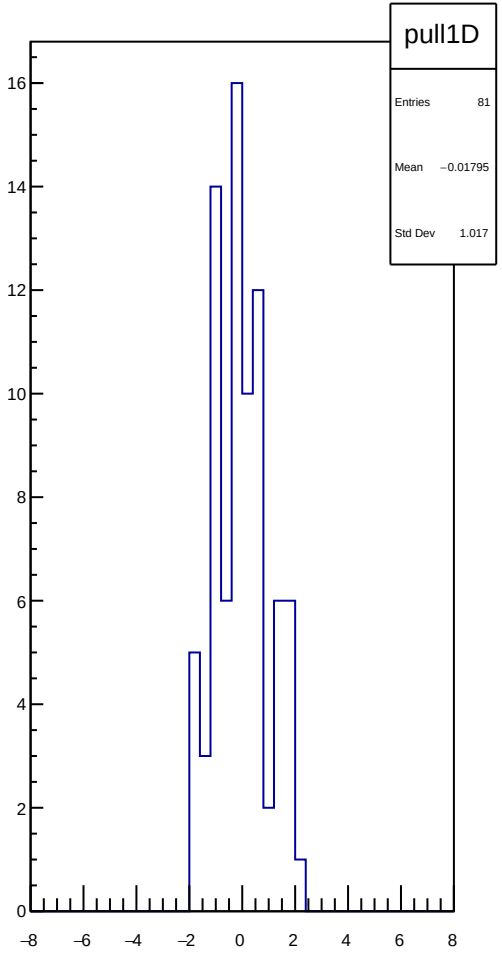

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.482e+04 / 80
p0 35.28 ± 0.02904
65
60
55
50
45
40
35
30
25
20

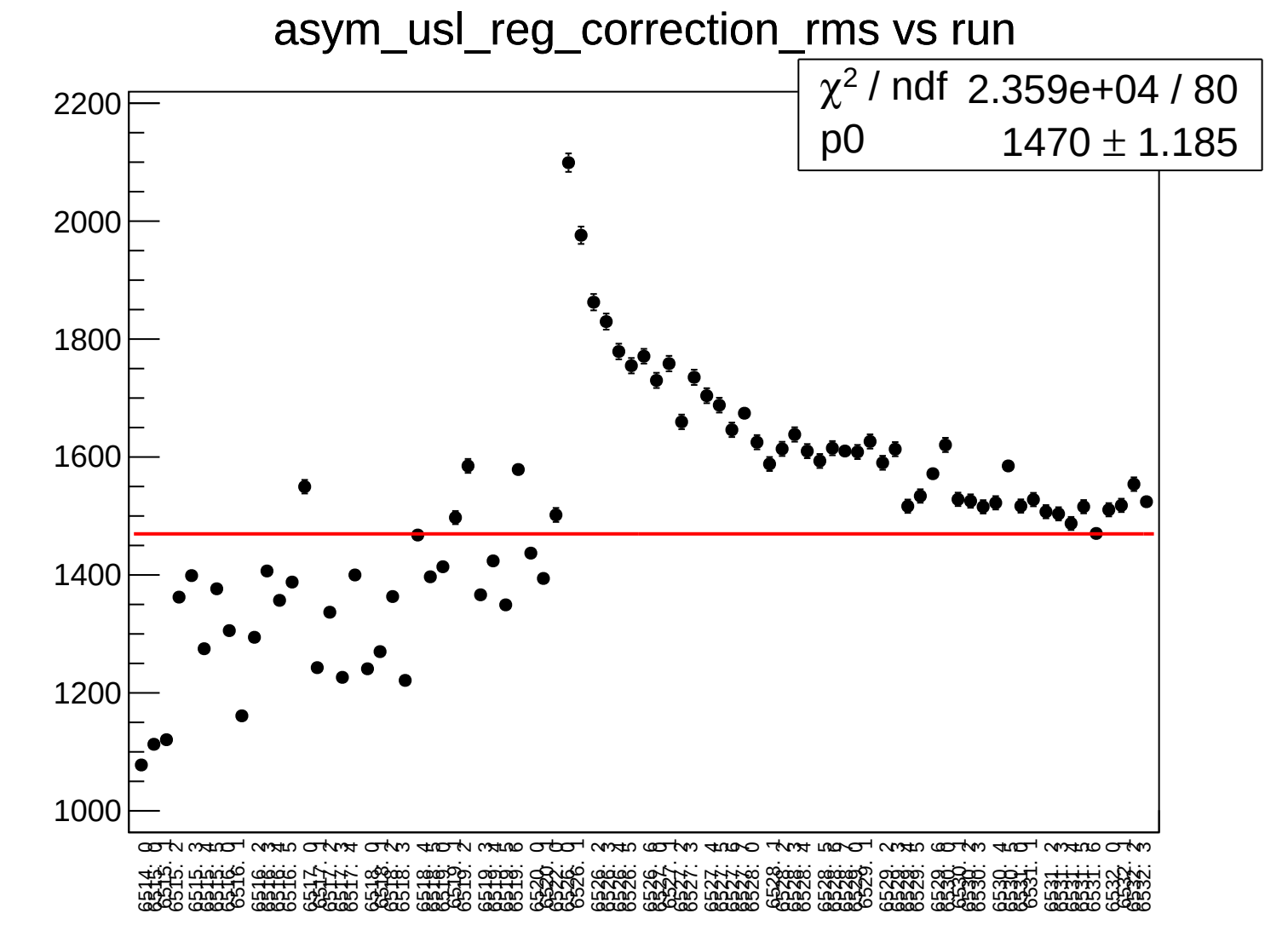

reg_asym_usl_mean vs run
χ² / ndf 68.46 / 80
p0 1300 ± 1251
pull
Entries 81
Mean −2157
Std Dev 0

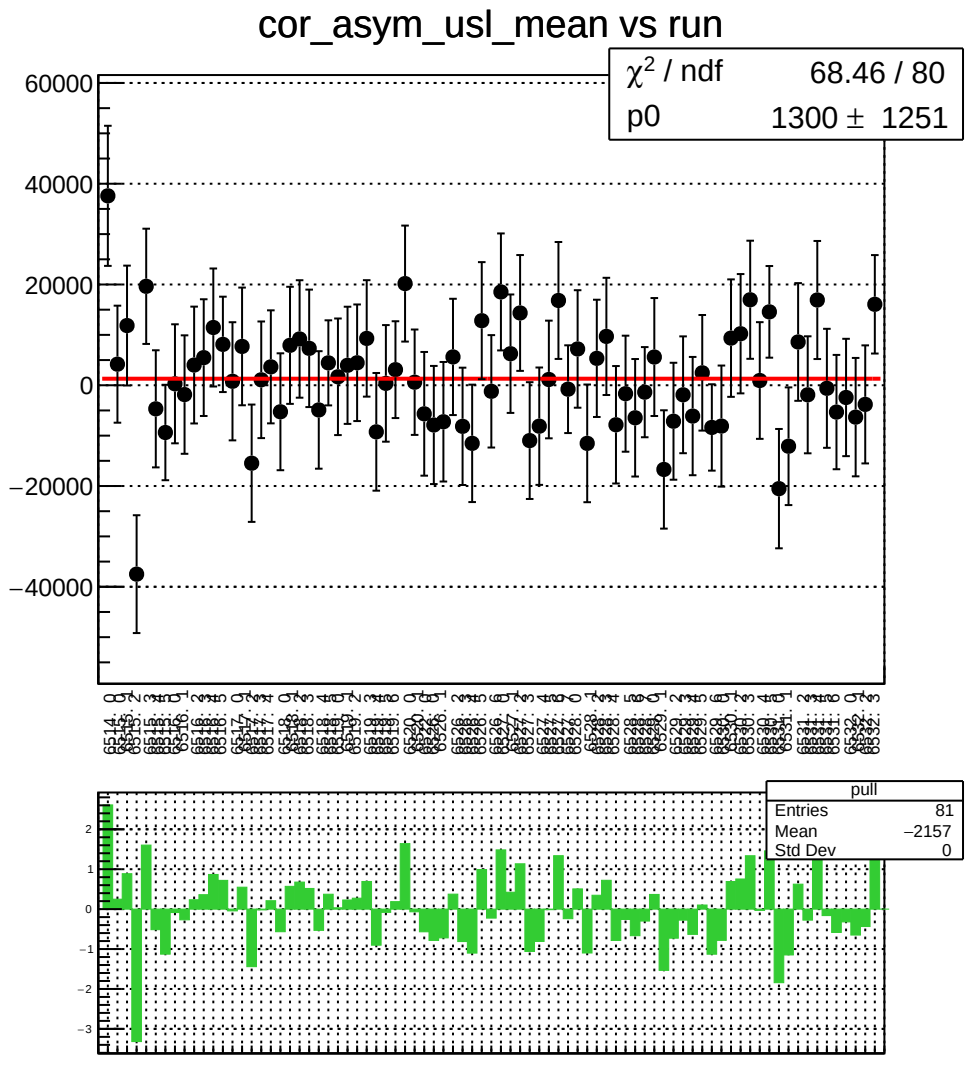

pull1D
Entries 81
Mean 0.0007882
Std Dev 0.9194

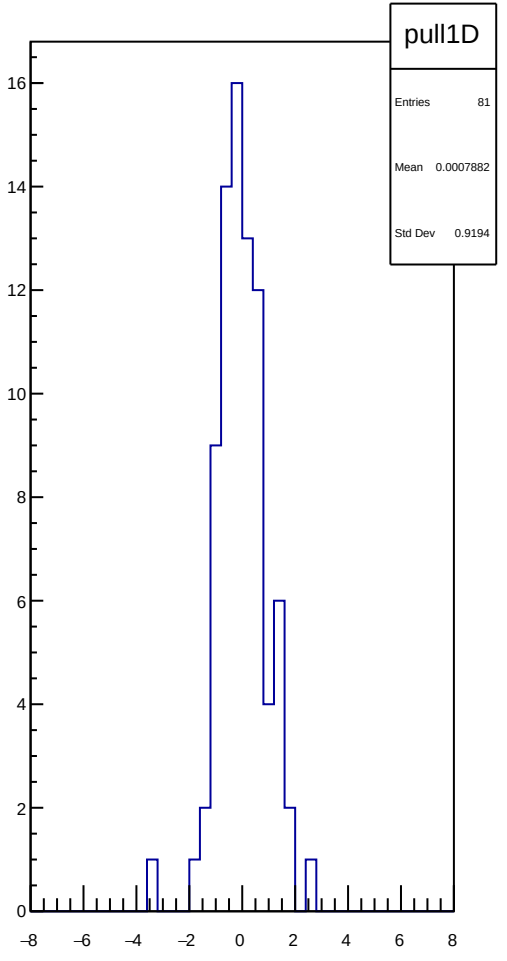

reg_asym_usl_rms vs run
χ² / ndf 103.9 / 80
p0 1105 ± 0.8844
1150
1140
1130
1120
1110
1100
1090
1080
1070

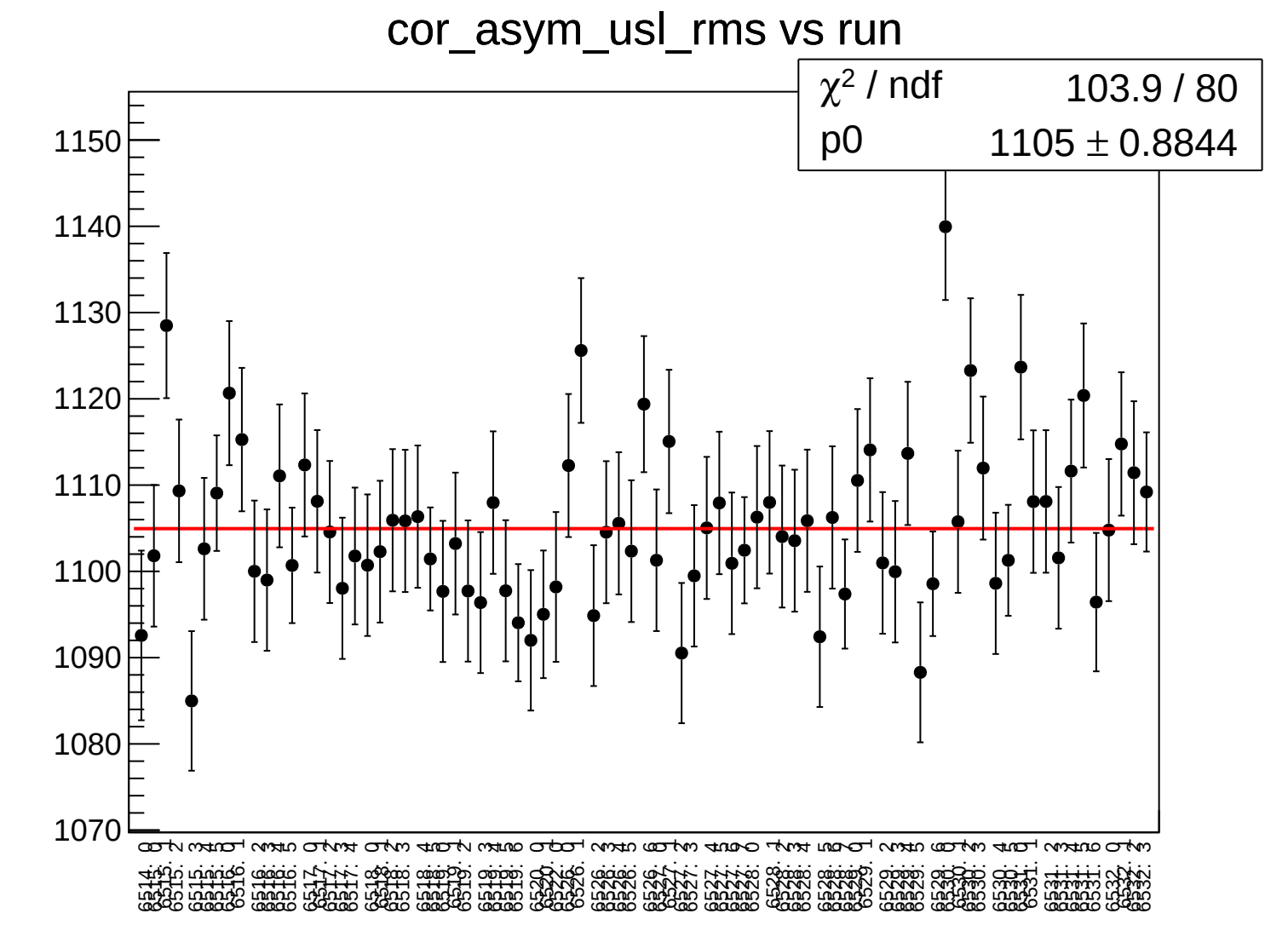

asym_usl_reg_correction_mean vs run
χ² / ndf 83.73 / 80
p0 1648 ± 1676
pull
Entries 81
Mean −141.4
Std Dev 0

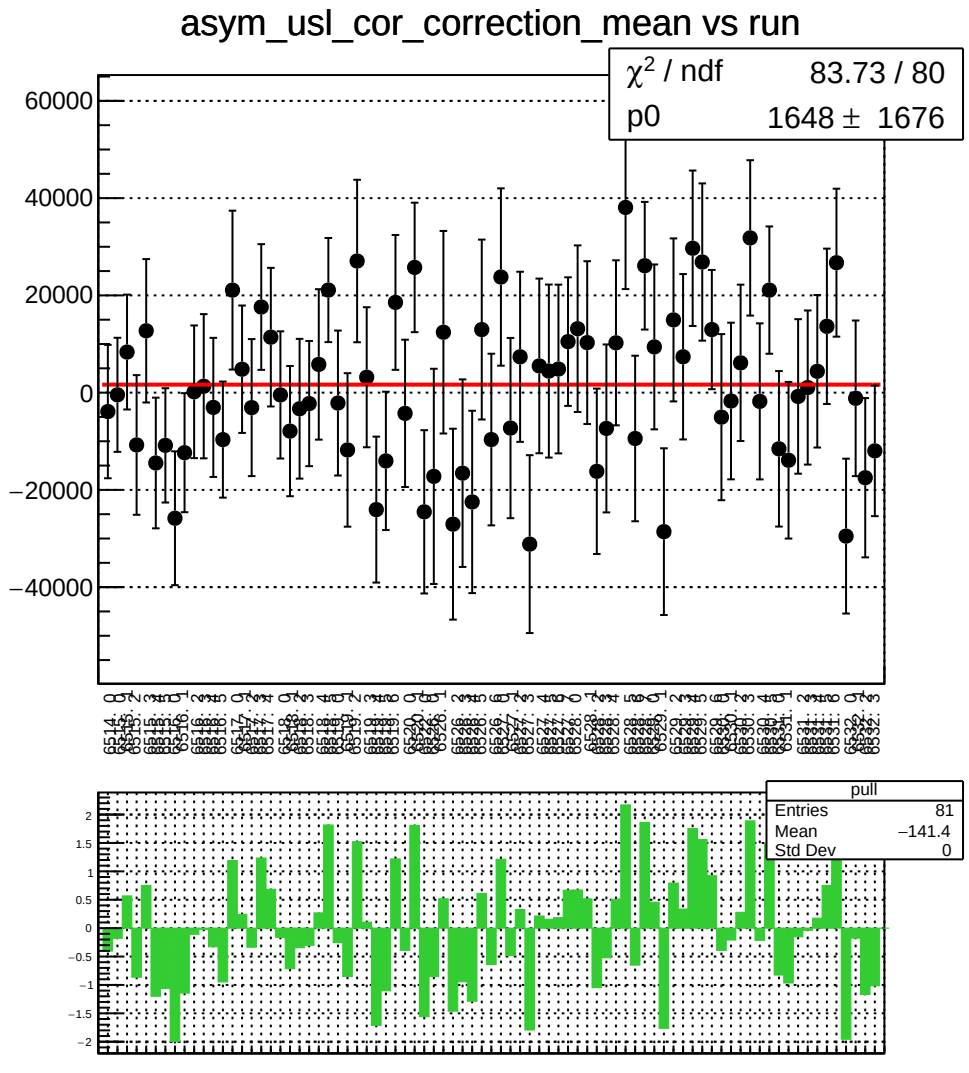

pull1D
Entries 81
Mean −0.01795
Std Dev 1.017

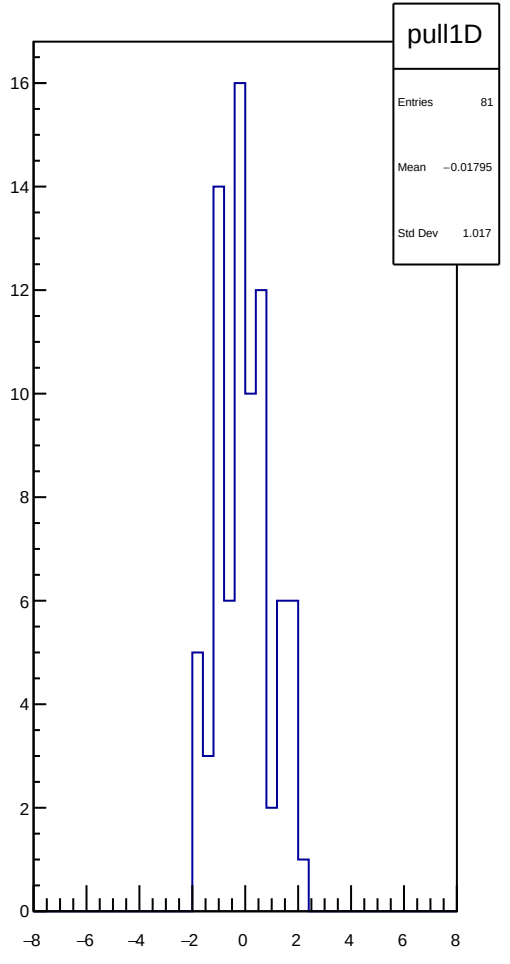

asym_usl_reg_correction_rms vs run
χ² / ndf 2.359e+04 / 80
p0 1470 ± 1.185
2200
2000
1800
1600
1400
1200
1000

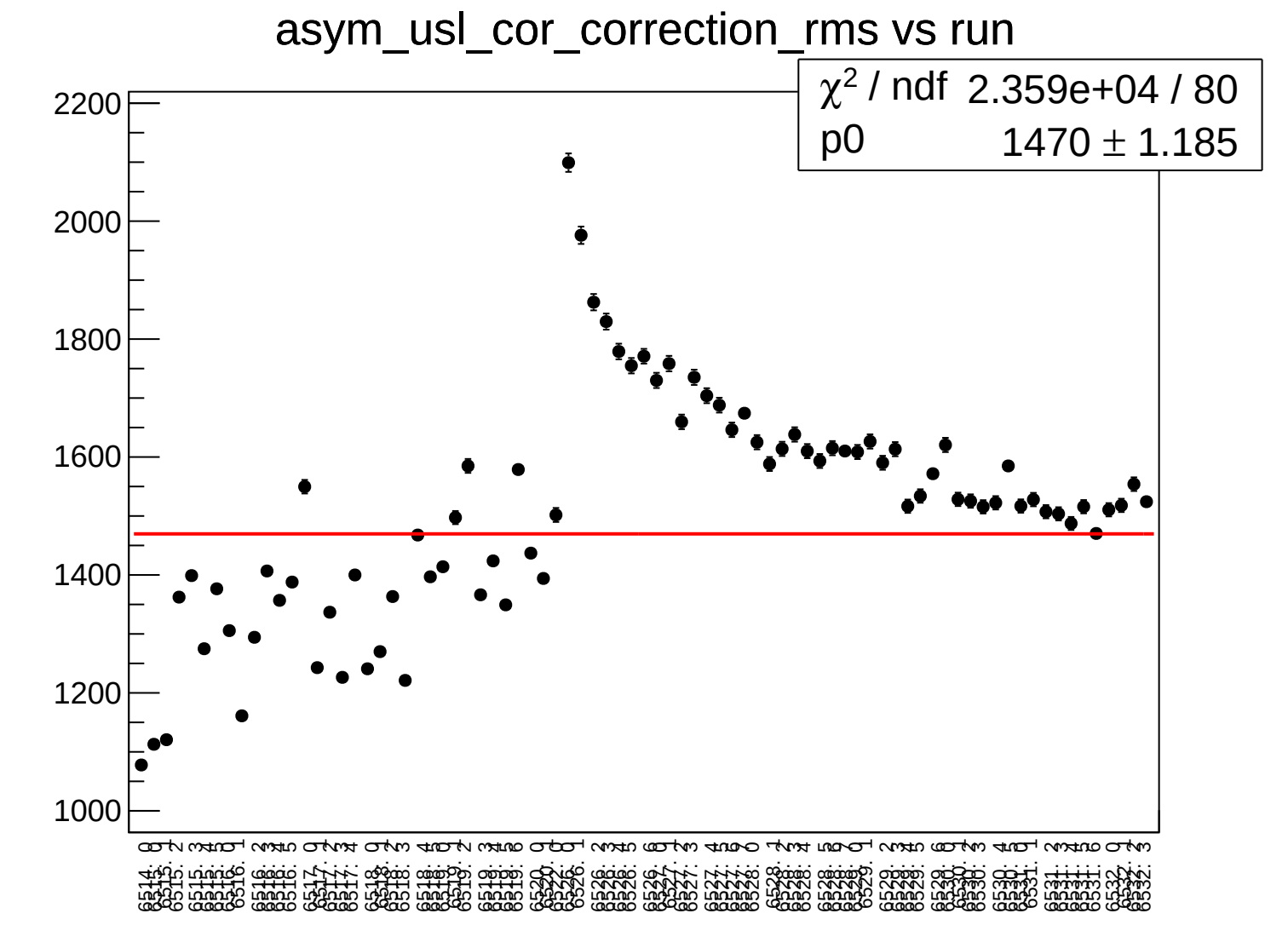

cor_asym_usl_mean vs run
χ² / ndf 68.46 / 80
p0 1300 ± 1251
60000
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −2157
Std Dev 0
2
1
0
−1
−2
−3

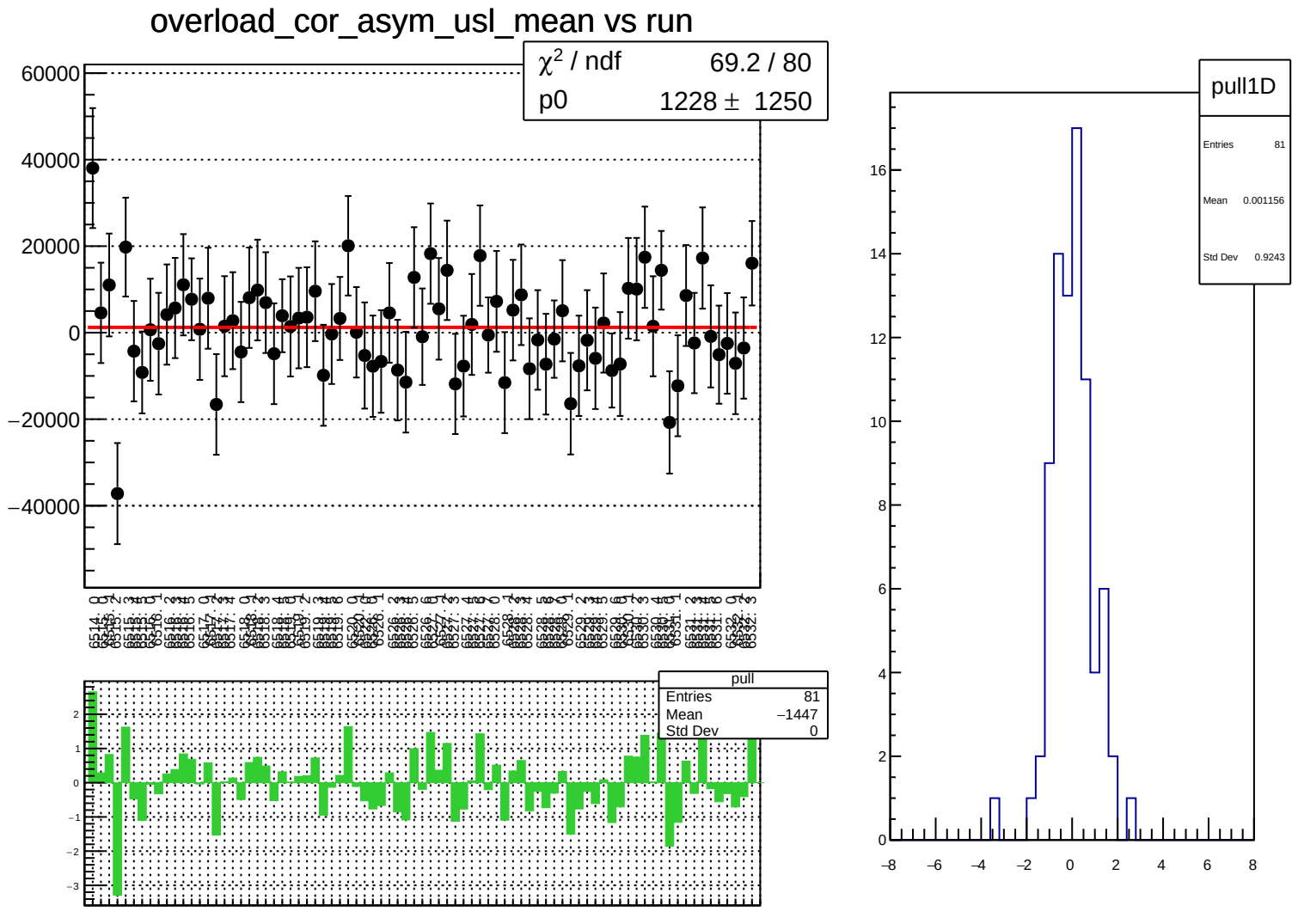

pull1D
Entries 81
Mean 0.0007882
Std Dev 0.9194
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

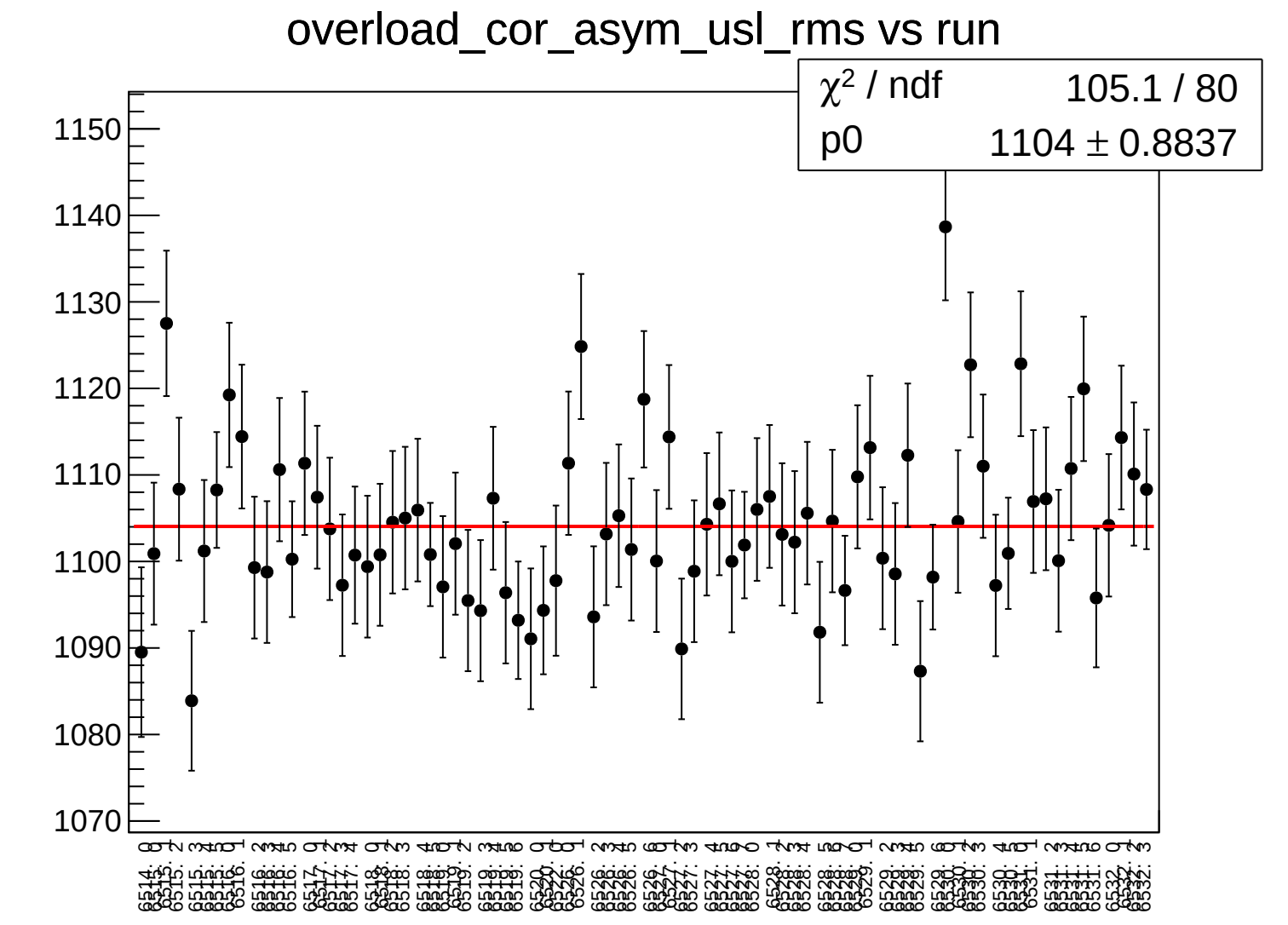

cor_asym_usl_rms vs run
χ^2 / ndf 103.9 / 80
p0 1105 ± 0.8844
1150
1140
1130
1120
1110
1100
1090
1080
1070

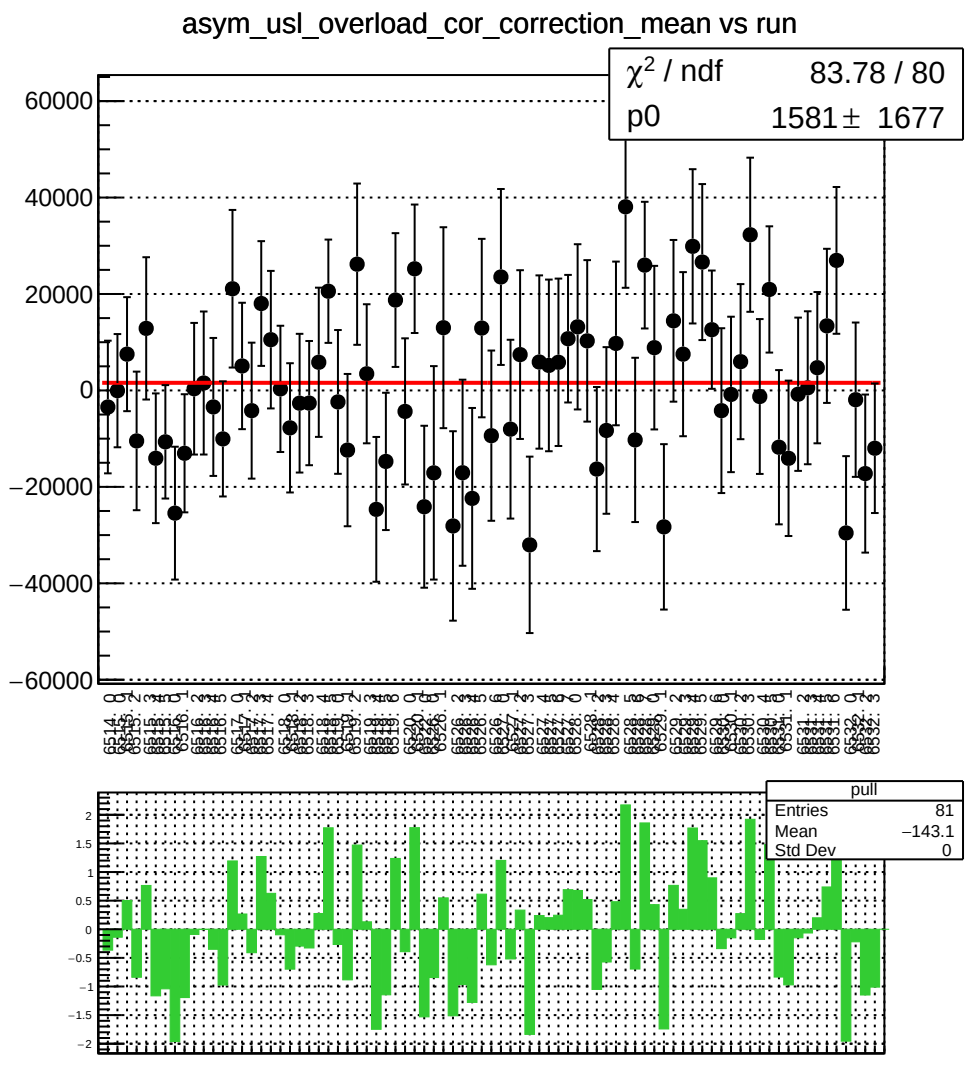

asym_usl_cor_correction_mean vs run
χ² / ndf 83.73 / 80
p0 1648 ± 1676
pull
Entries 81
Mean −141.4
Std Dev 0

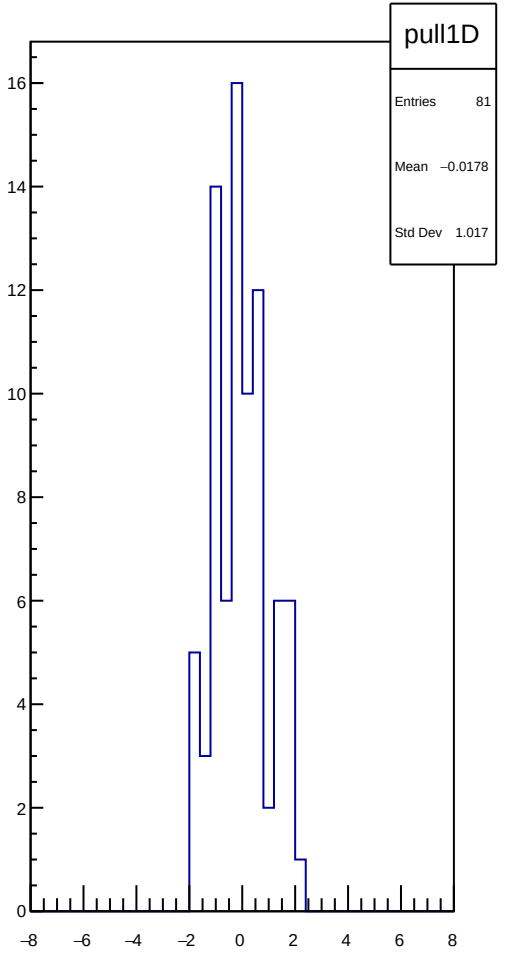

pull1D
Entries 81
Mean −0.01795
Std Dev 1.017

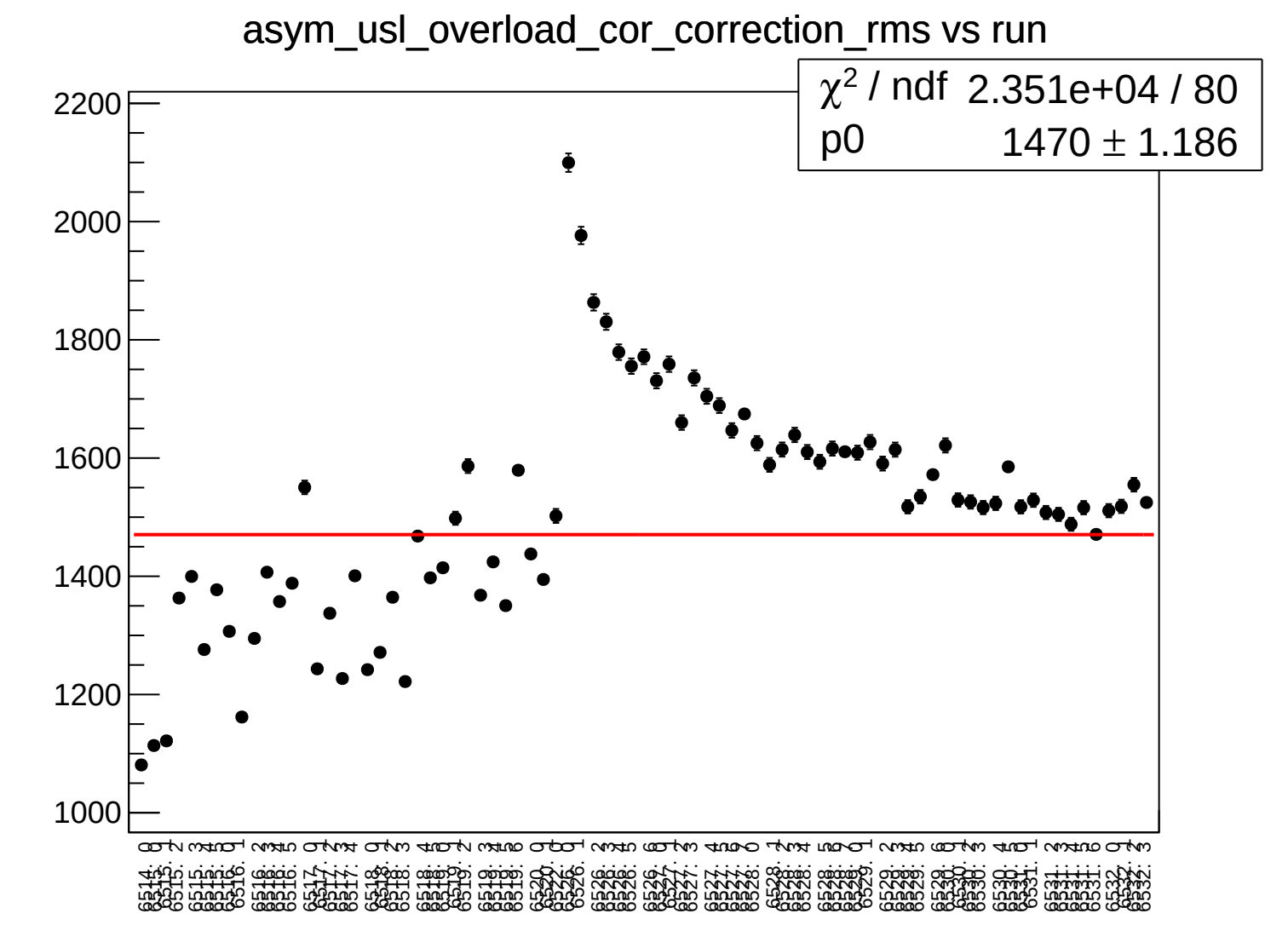

asym_usl_cor_correction_rms vs run
χ² / ndf 2.359e+04 / 80
p0 1470 ± 1.185
2200
2000
1800
1600
1400
1200
1000

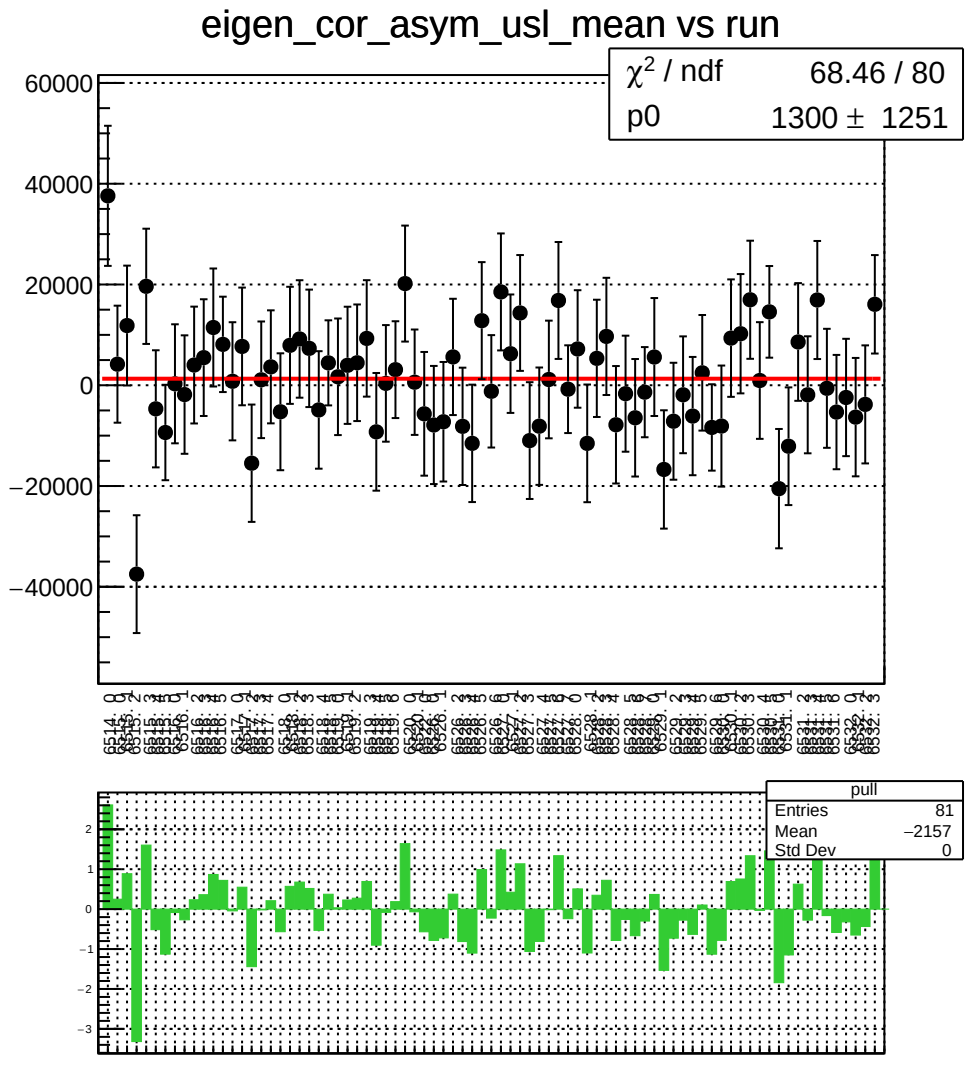

overload_cor_asym_usl_mean vs run
χ² / ndf 69.2 / 80
p0 1228 ± 1250
pull
Entries 81
Mean −1447
Std Dev 0
pull1D
Entries 81
Mean 0.001156
Std Dev 0.9243

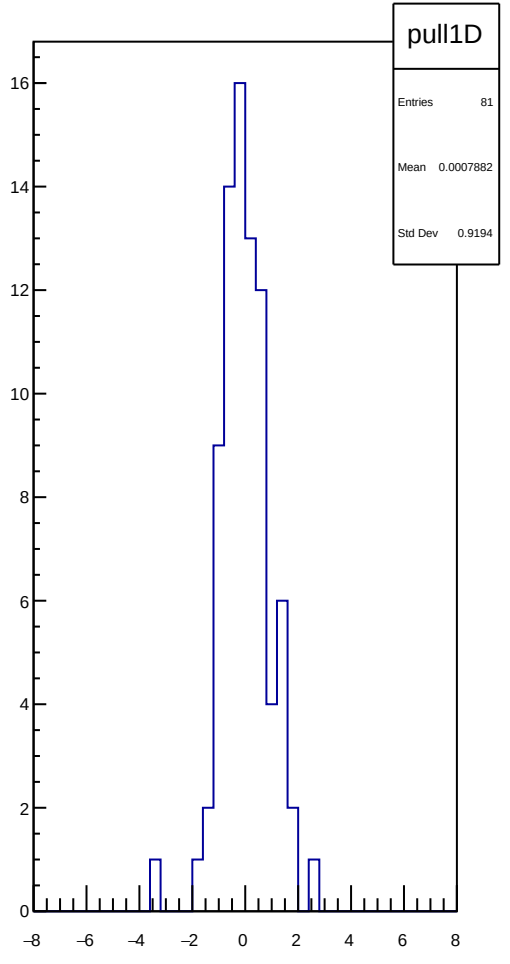

overload_cor_asym_usl_rms vs run
χ² / ndf 105.1 / 80
p0 1104 ± 0.8837
1150
1140
1130
1120
1110
1100
1090
1080
1070

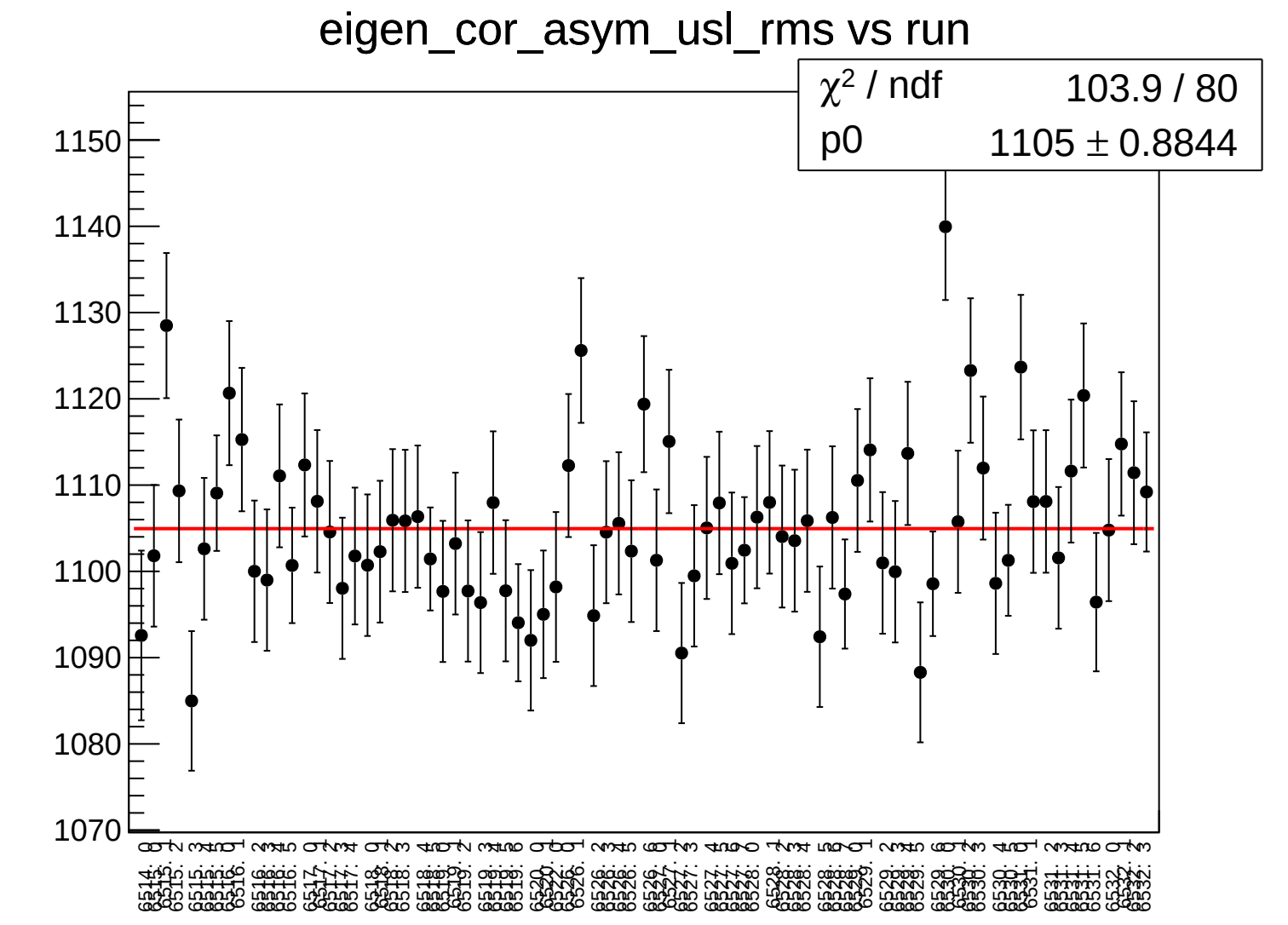

asym_usl_overload_cor_correction_mean vs run
χ² / ndf 83.78 / 80
p0 1581 ± 1677
pull
Entries 81
Mean −143.1
Std Dev 0

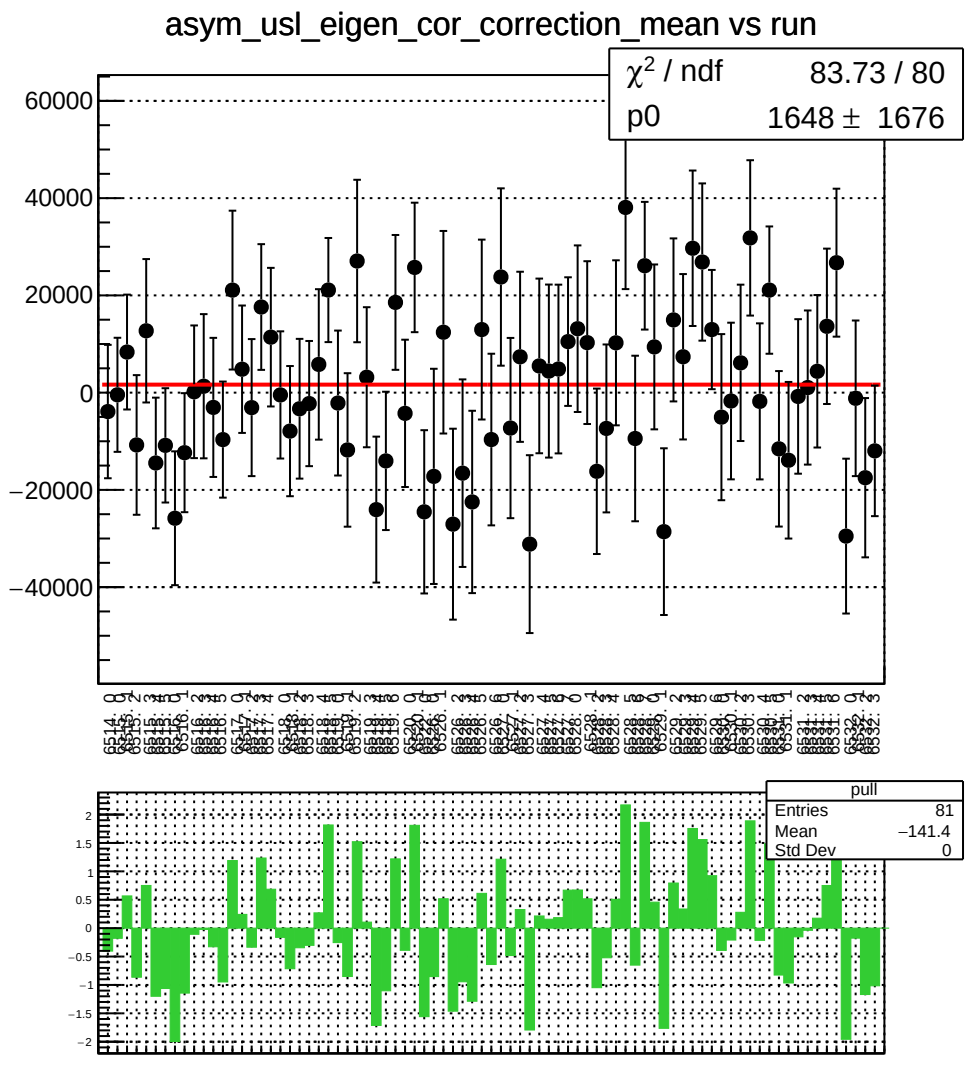

pull1D
Entries 81
Mean −0.0178
Std Dev 1.017

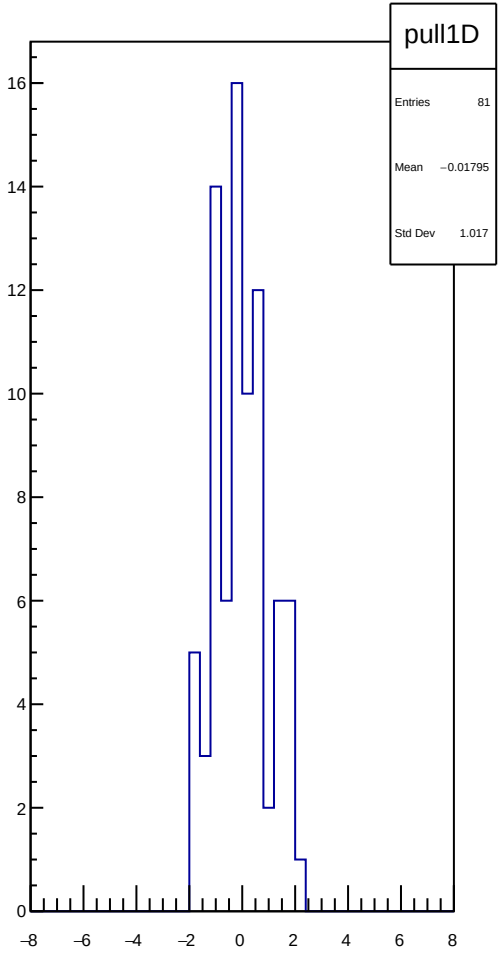

asym_usl_overload_cor_correction_rms vs run
χ² / ndf 2.351e+04 / 80
p0 1470 ± 1.186
2200
2000
1800
1600
1400
1200
1000

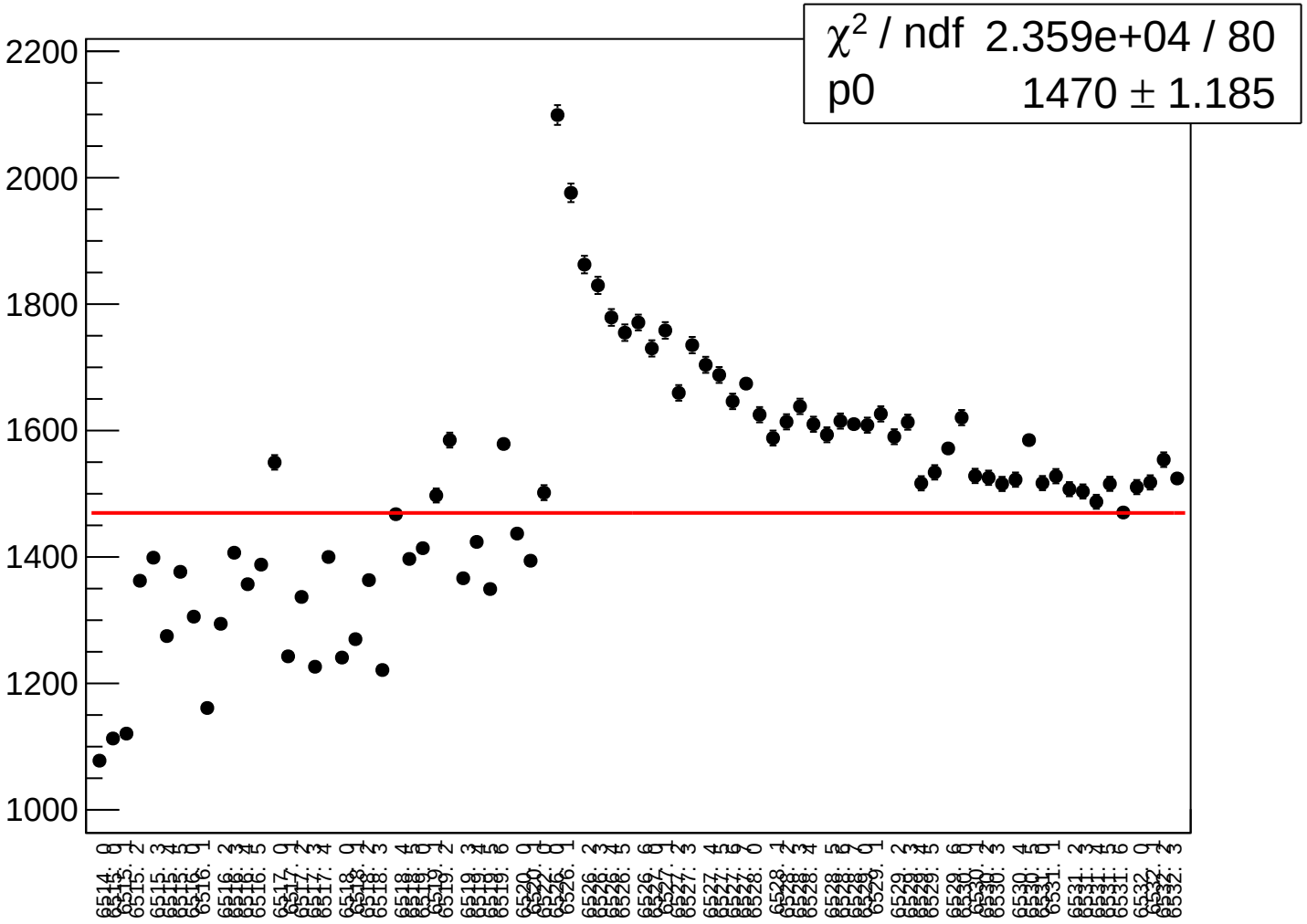

eigen_cor_asym_usl_mean vs run
χ² / ndf 68.46 / 80
p0 1300 ± 1251
60000
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −2157
Std Dev 0
2
1
0
−1
−2
−3

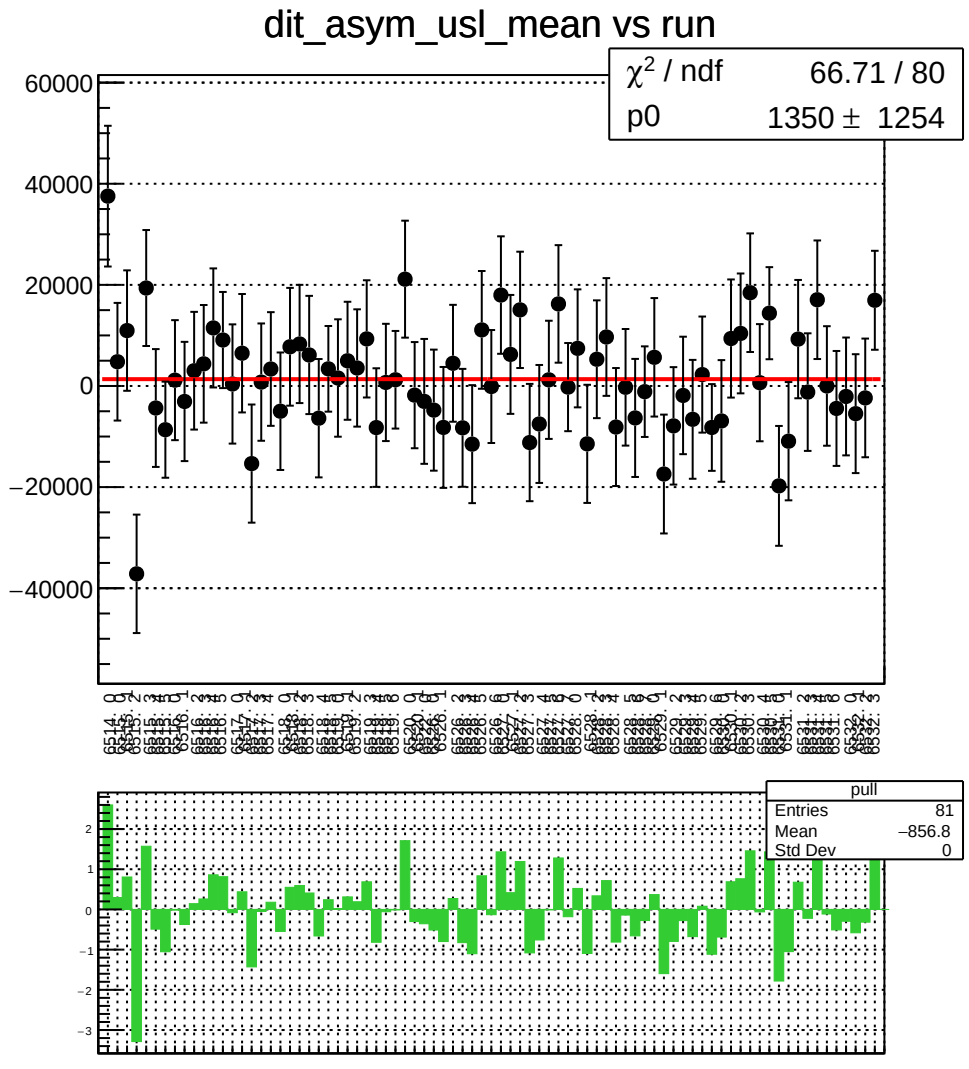

pull1D
Entries 81
Mean 0.0007882
Std Dev 0.9194
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

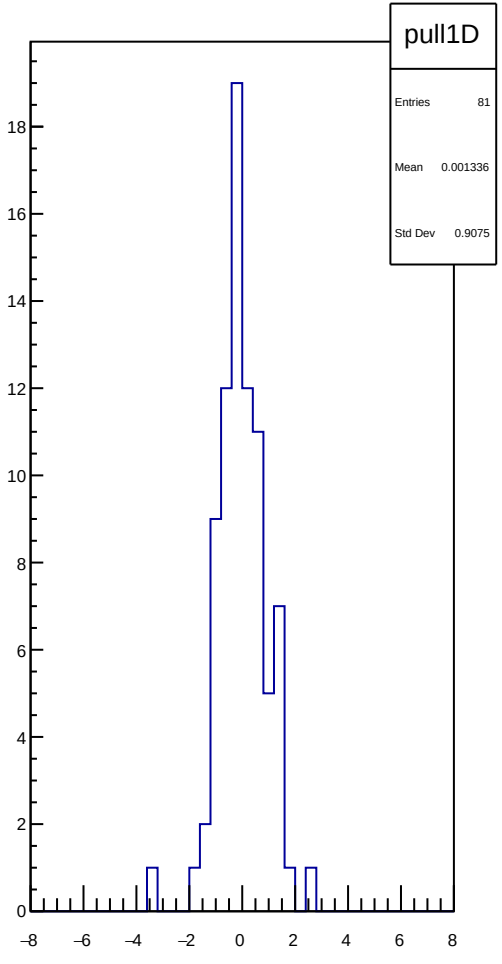

eigen_cor_asym_usl_rms vs run
χ^2 / ndf 103.9 / 80
p0 1105 ± 0.8844
1150
1140
1130
1120
1110
1100
1090
1080
1070

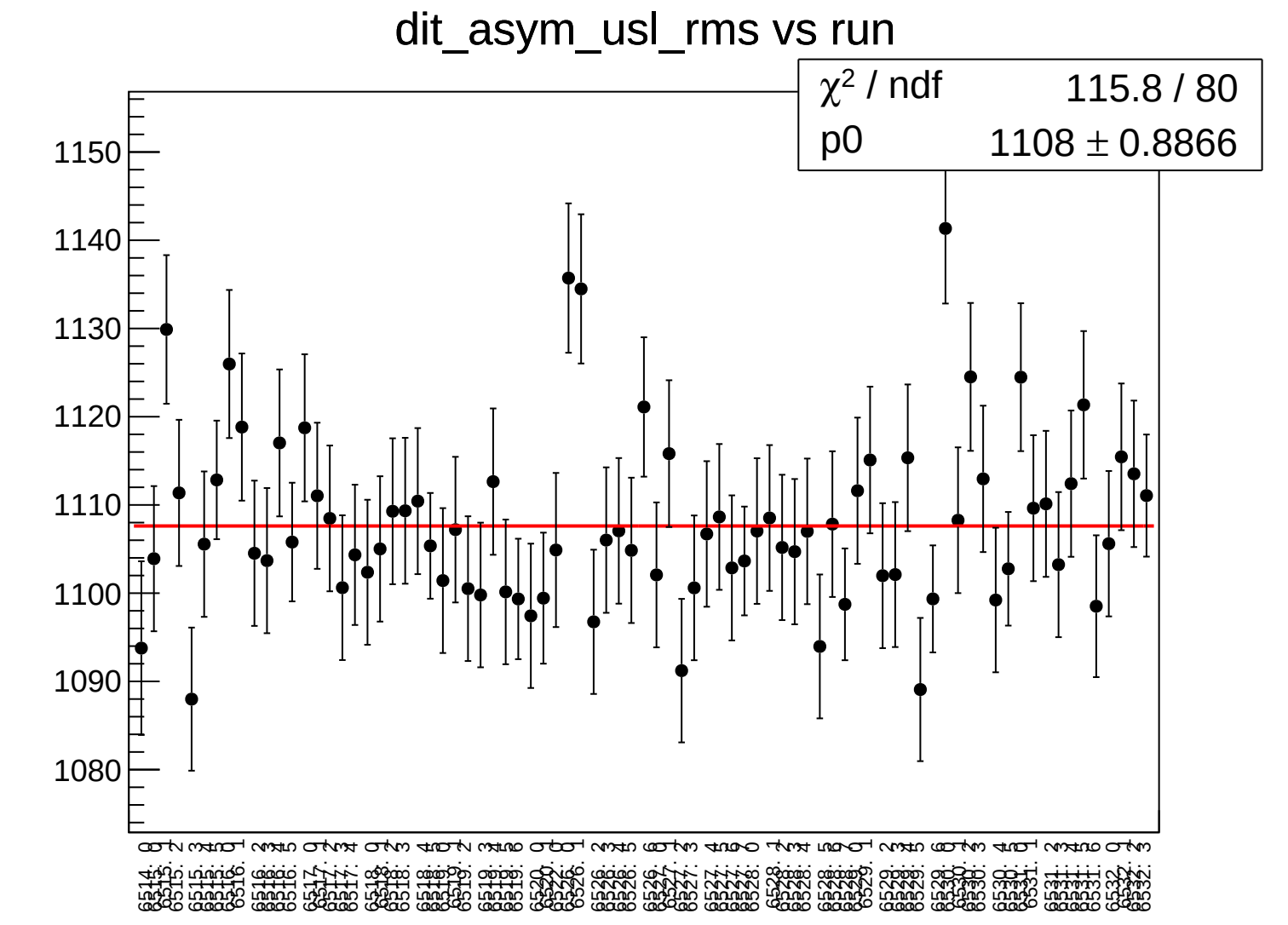

asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 83.73 / 80
p0 1648 ± 1676
pull
Entries 81
Mean −141.4
Std Dev 0

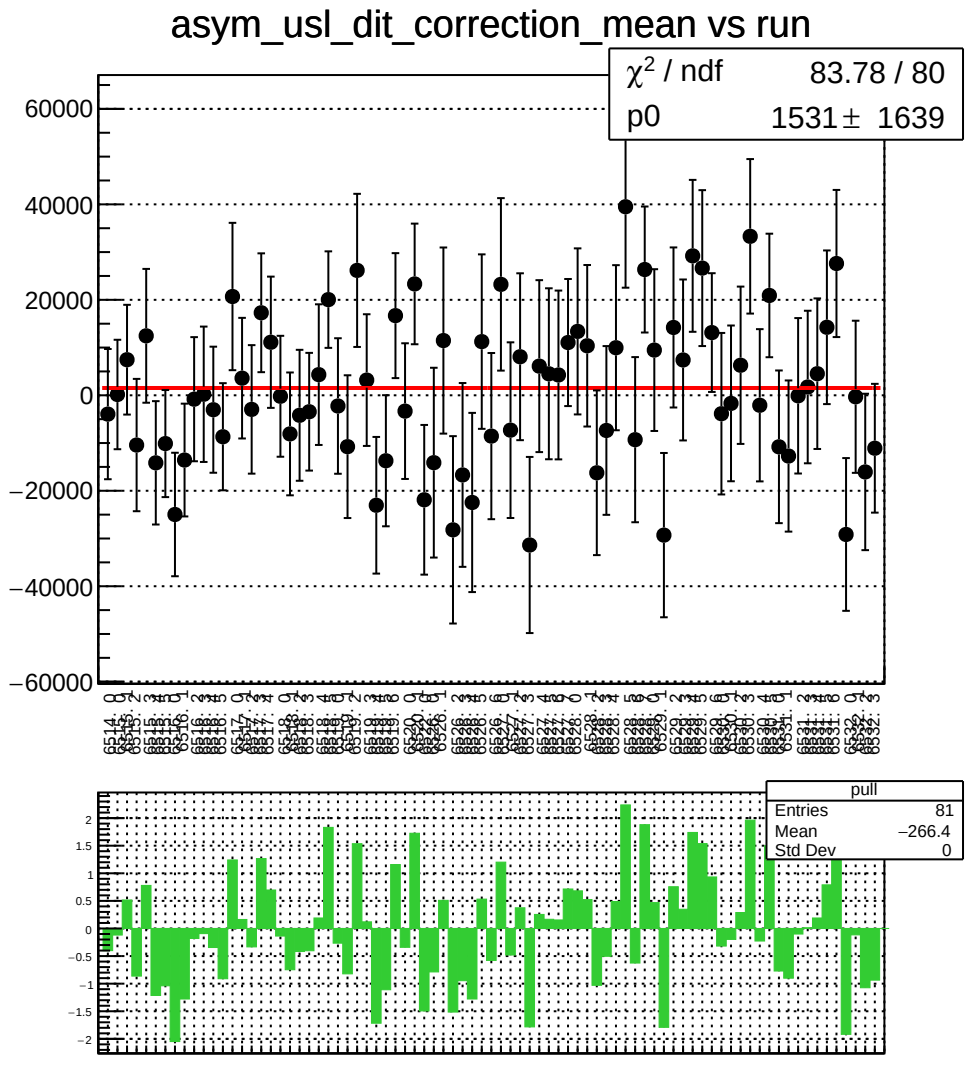

pull1D
Entries 81
Mean −0.01795
Std Dev 1.017

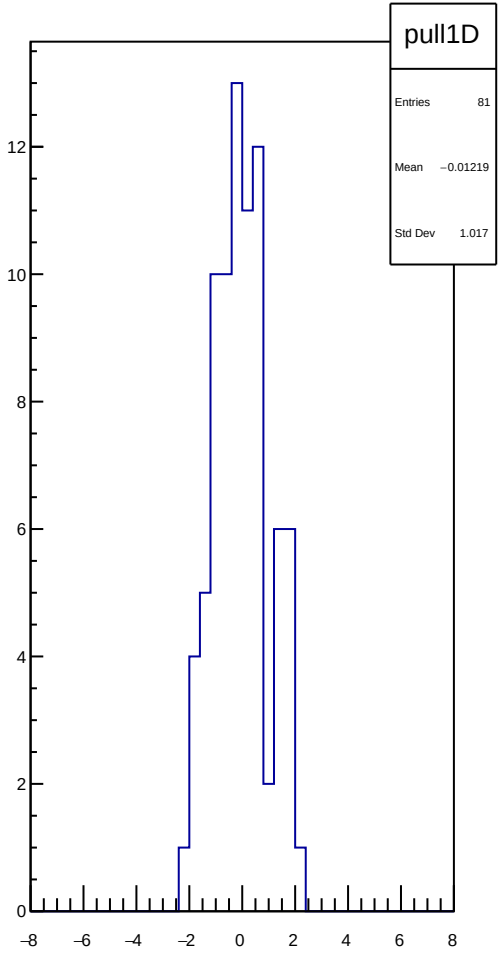

asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 2.359e+04 / 80
p0 1470 ± 1.185
2200
2000
1800
1600
1400
1200
1000

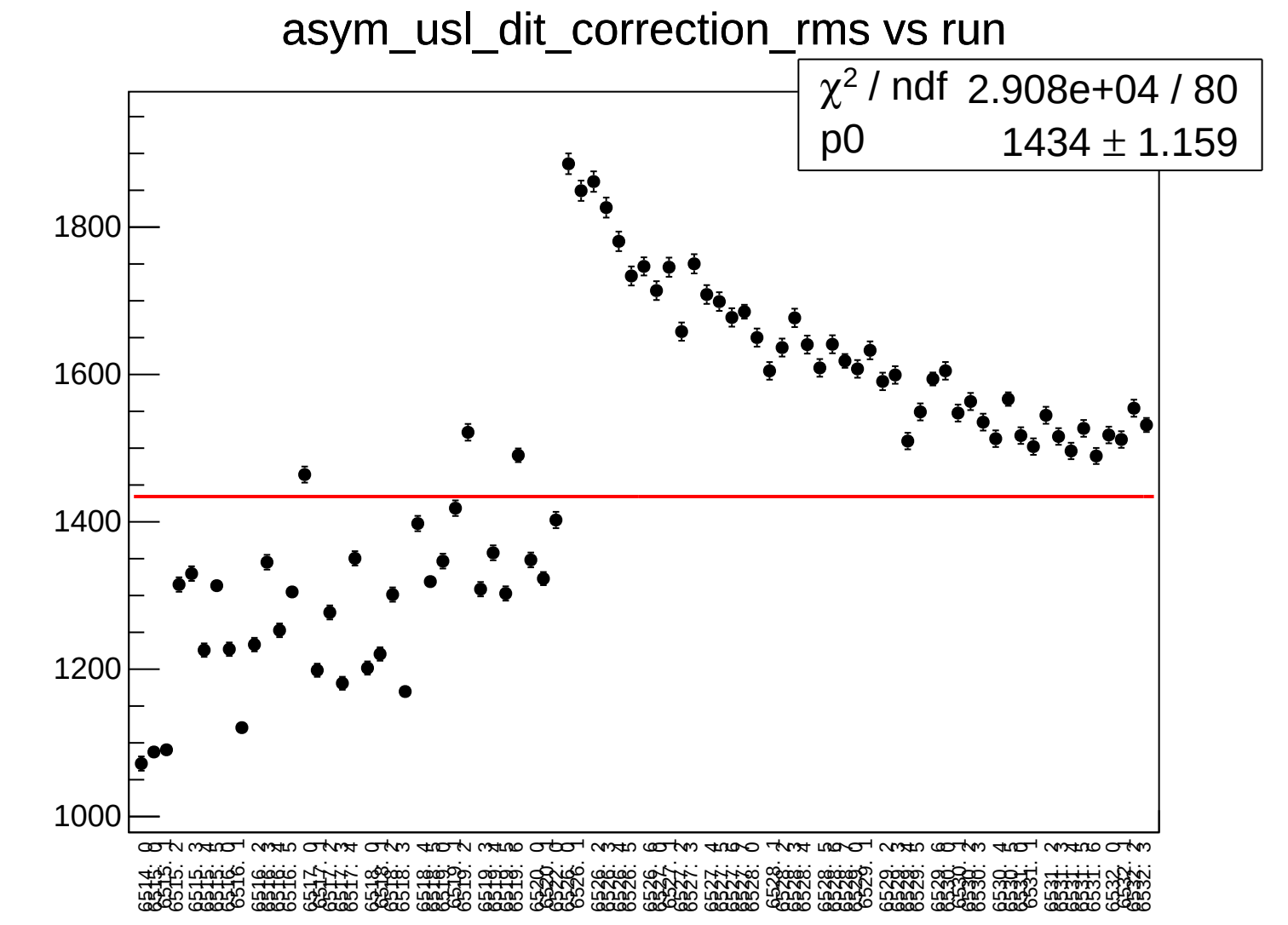

dit_asym_usl_mean vs run
χ² / ndf 66.71 / 80
p0 1350 ± 1254
60000
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −856.8
Std Dev 0
2
1
0
−1
−2
−3

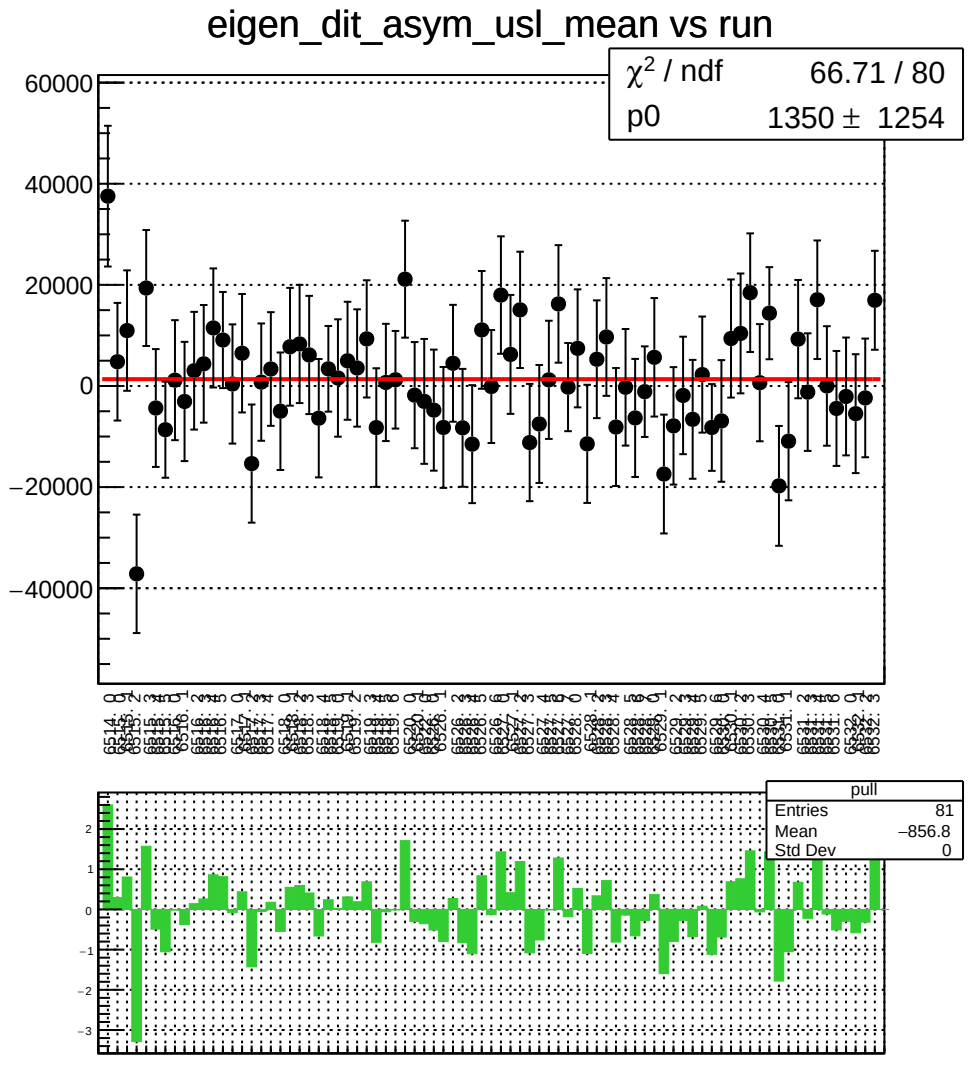

pull1D
Entries 81
Mean 0.001336
Std Dev 0.9075
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

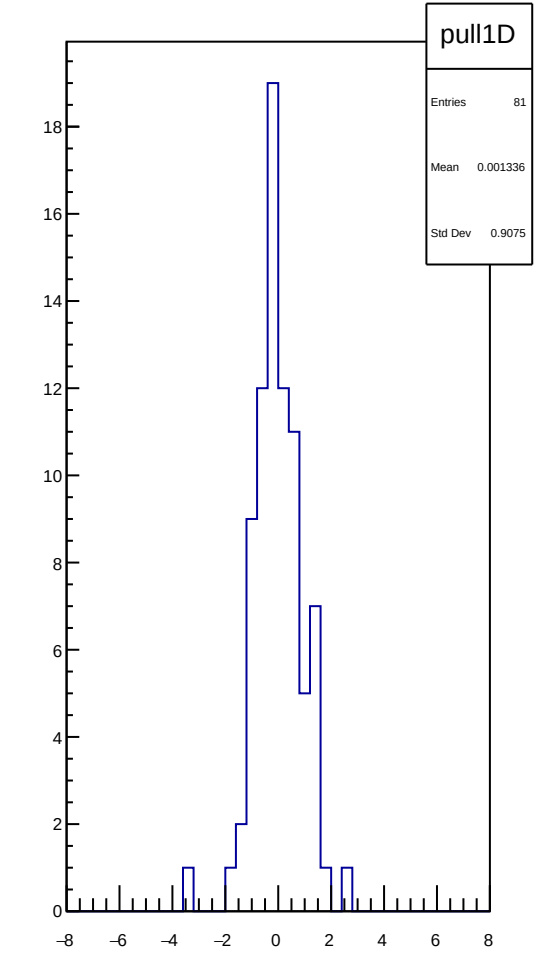

dit_asym_usl_rms vs run
χ² / ndf 115.8 / 80
p0 1108 ± 0.8866
1150
1140
1130
1120
1110
1100
1090
1080

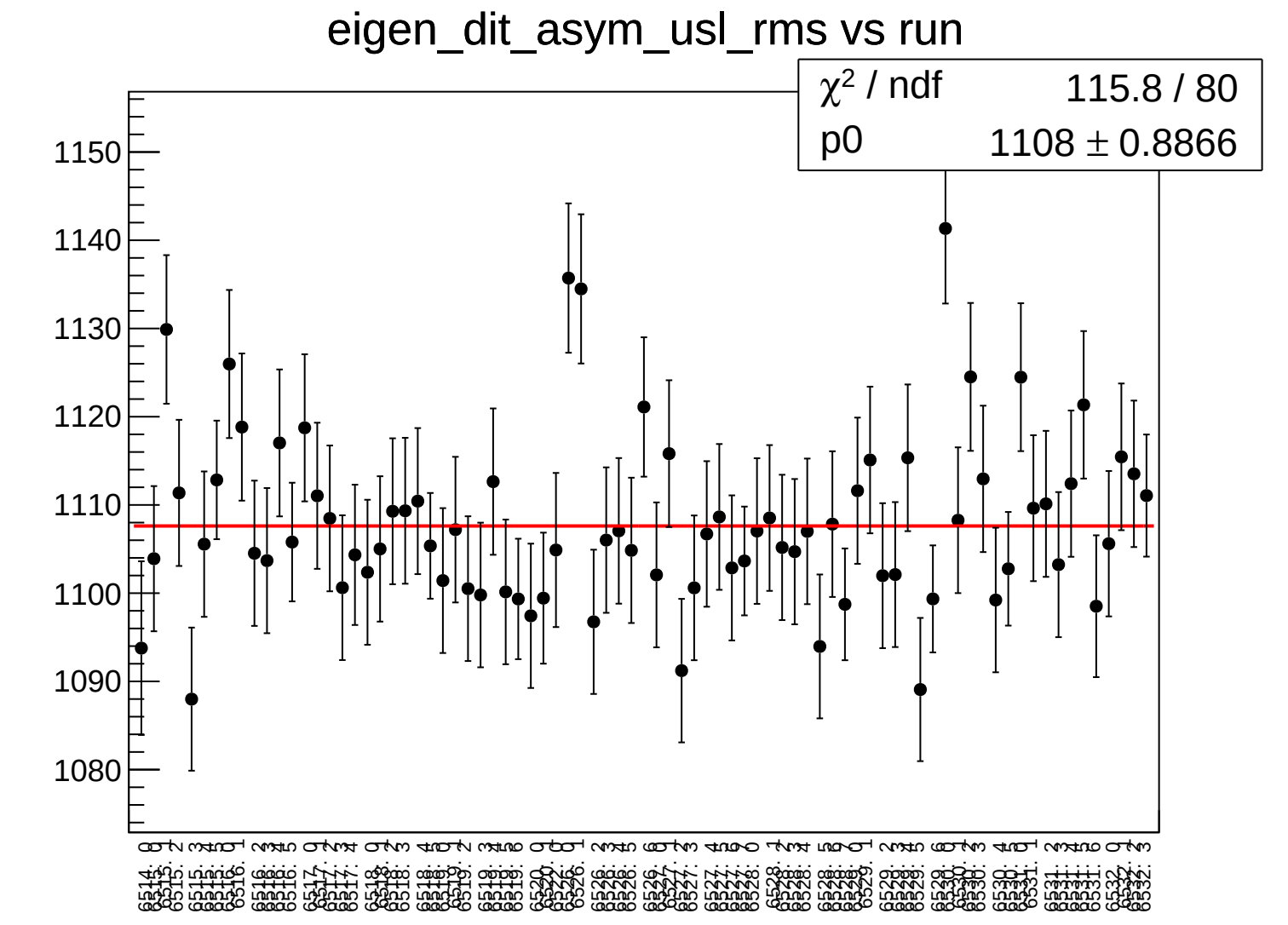

asym_usl_dit_correction_mean vs run
χ² / ndf 83.78 / 80
p0 1531 ± 1639
pull
Entries 81
Mean −266.4
Std Dev 0

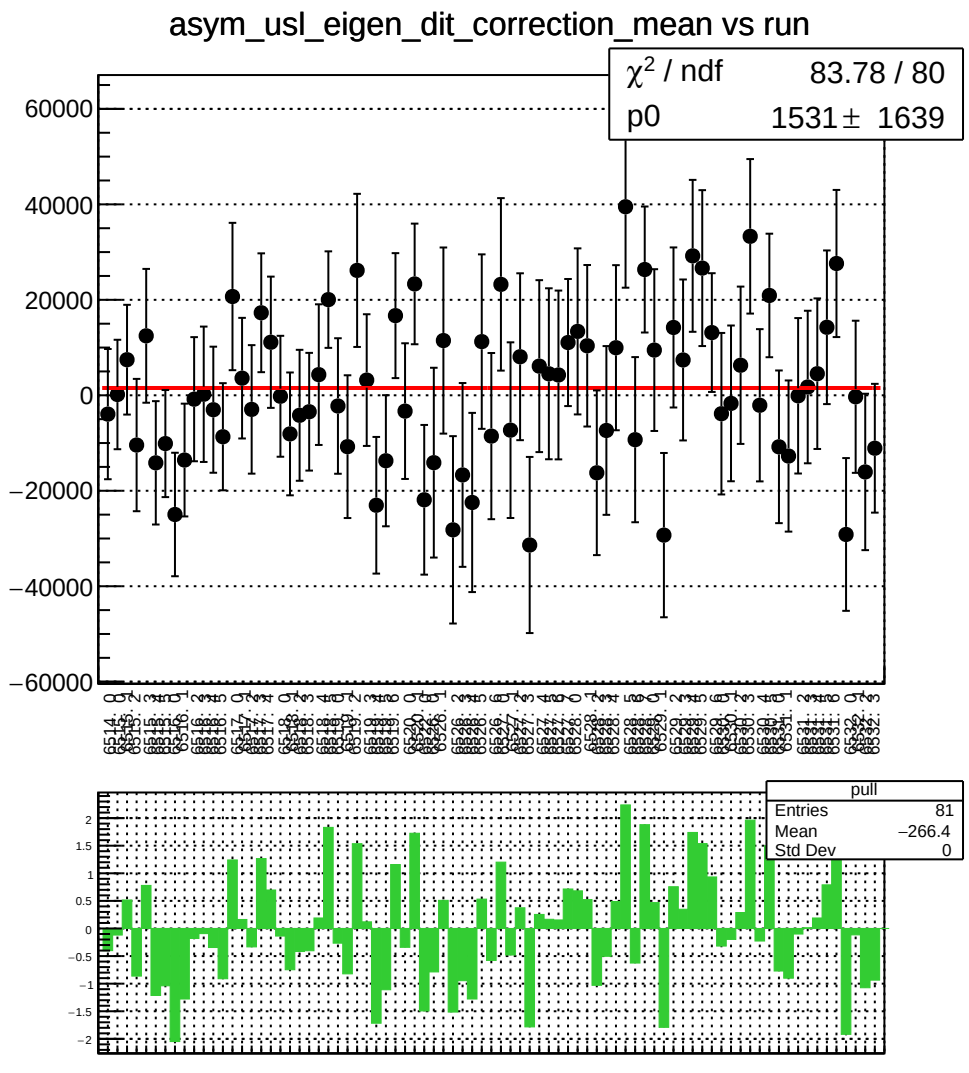

pull1D
Entries 81
Mean −0.01219
Std Dev 1.017

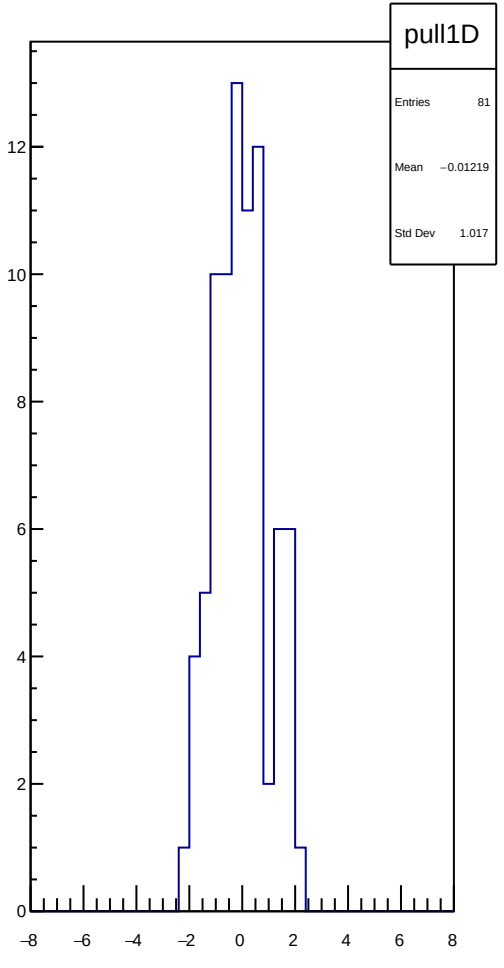

asym_usl_dit_correction_rms vs run
χ² / ndf 2.908e+04 / 80
p0 1434 ± 1.159
1800
1600
1400
1200
1000

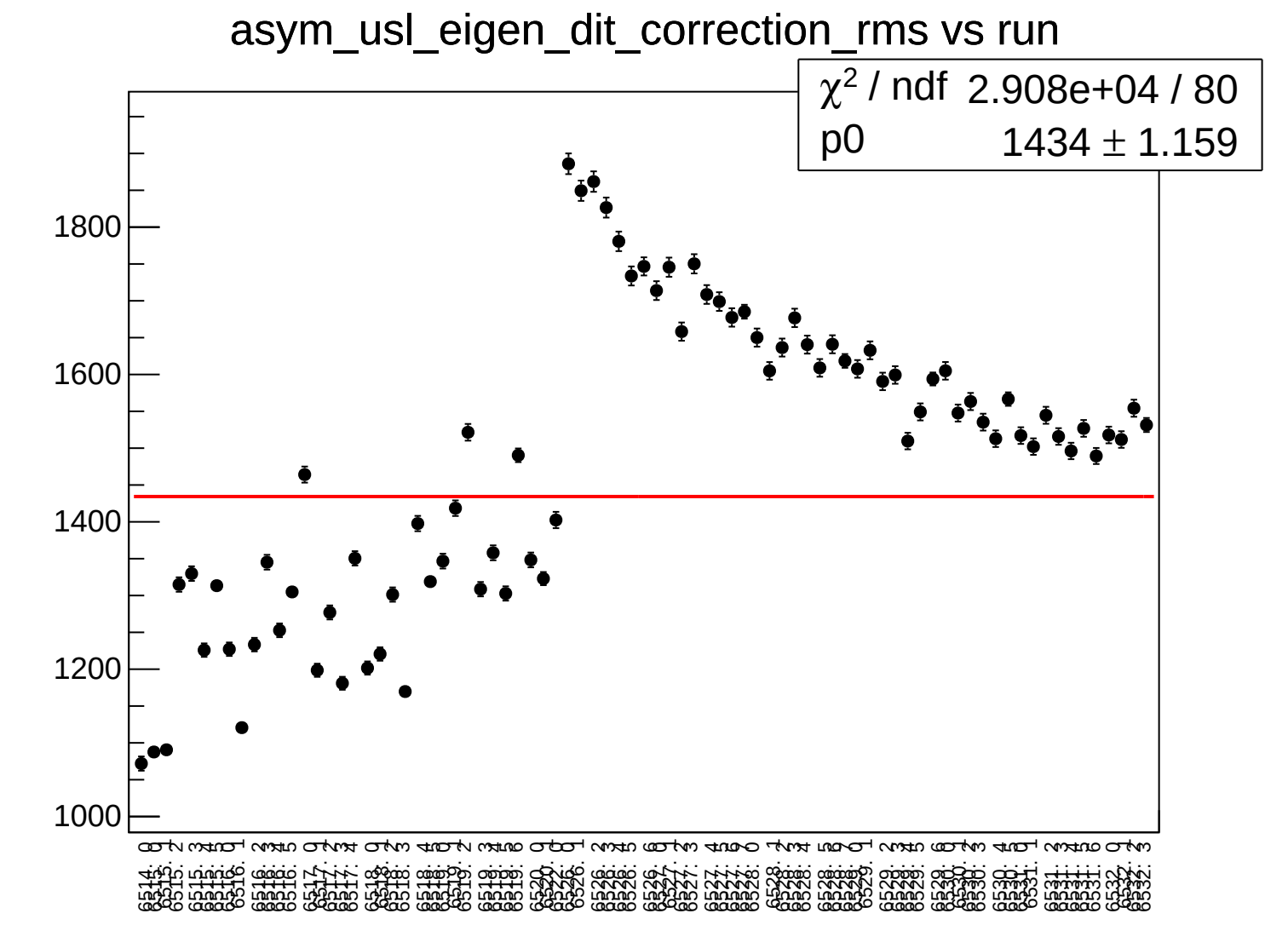

eigen_dit_asym_usl_mean vs run
χ² / ndf 66.71 / 80
p0 1350 ± 1254
pull
Entries 81
Mean −856.8
Std Dev 0

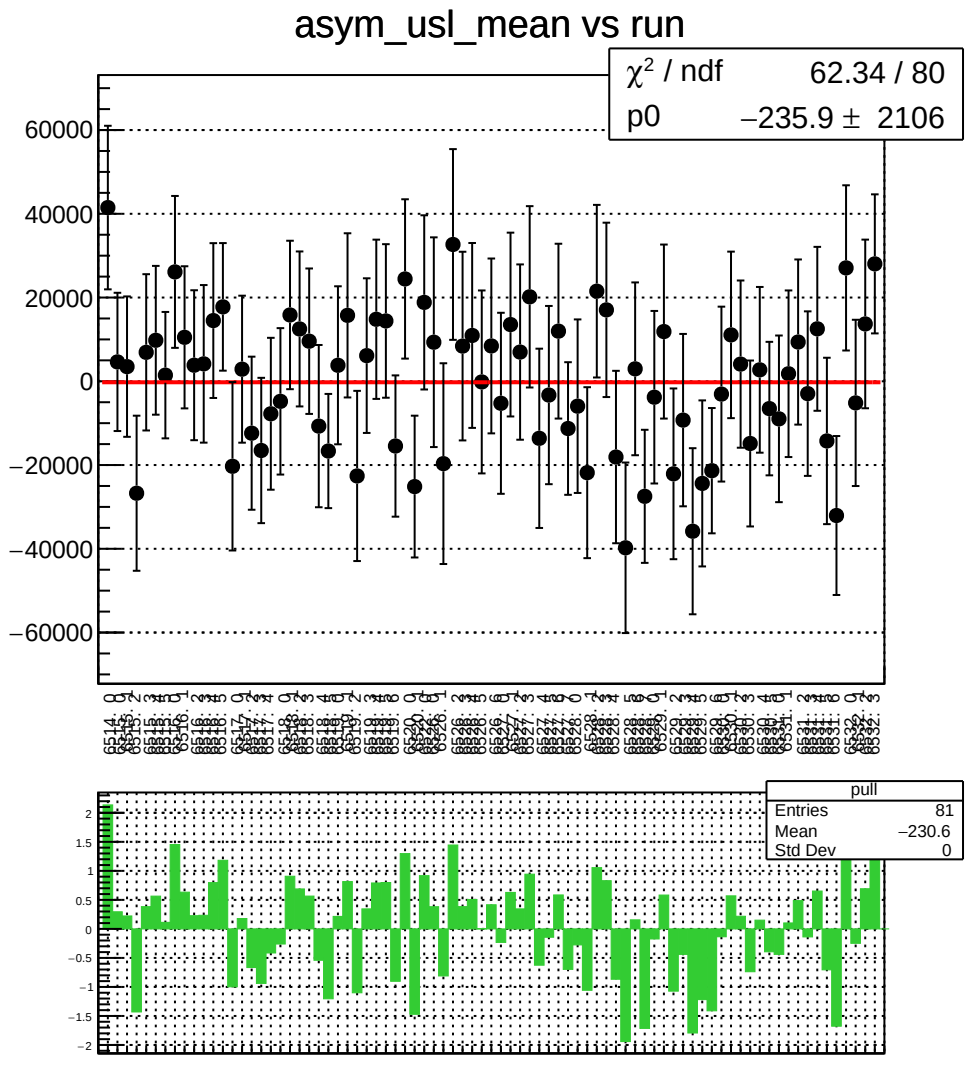

pull1D
Entries 81
Mean 0.001336
Std Dev 0.9075

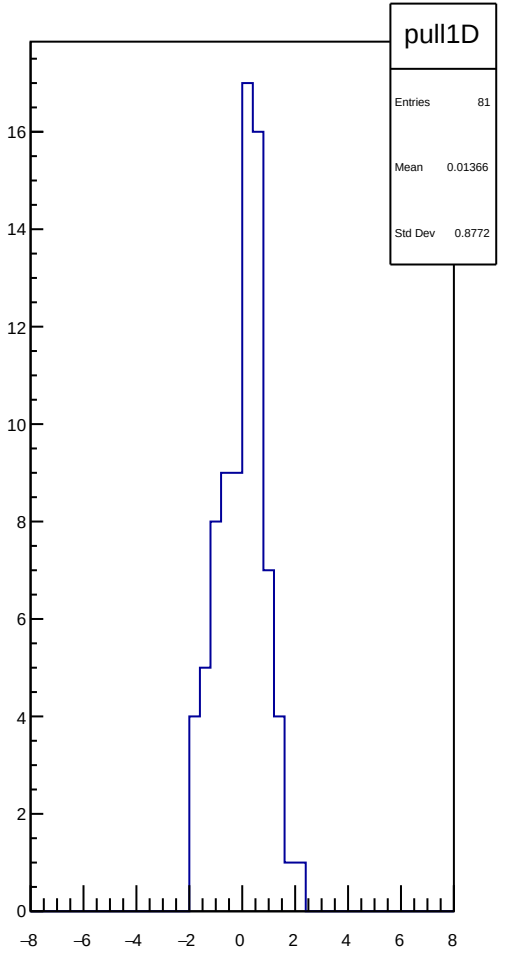

eigen_dit_asym_usl_rms vs run
χ² / ndf 115.8 / 80
p0 1108 ± 0.8866
1150
1140
1130
1120
1110
1100
1090
1080

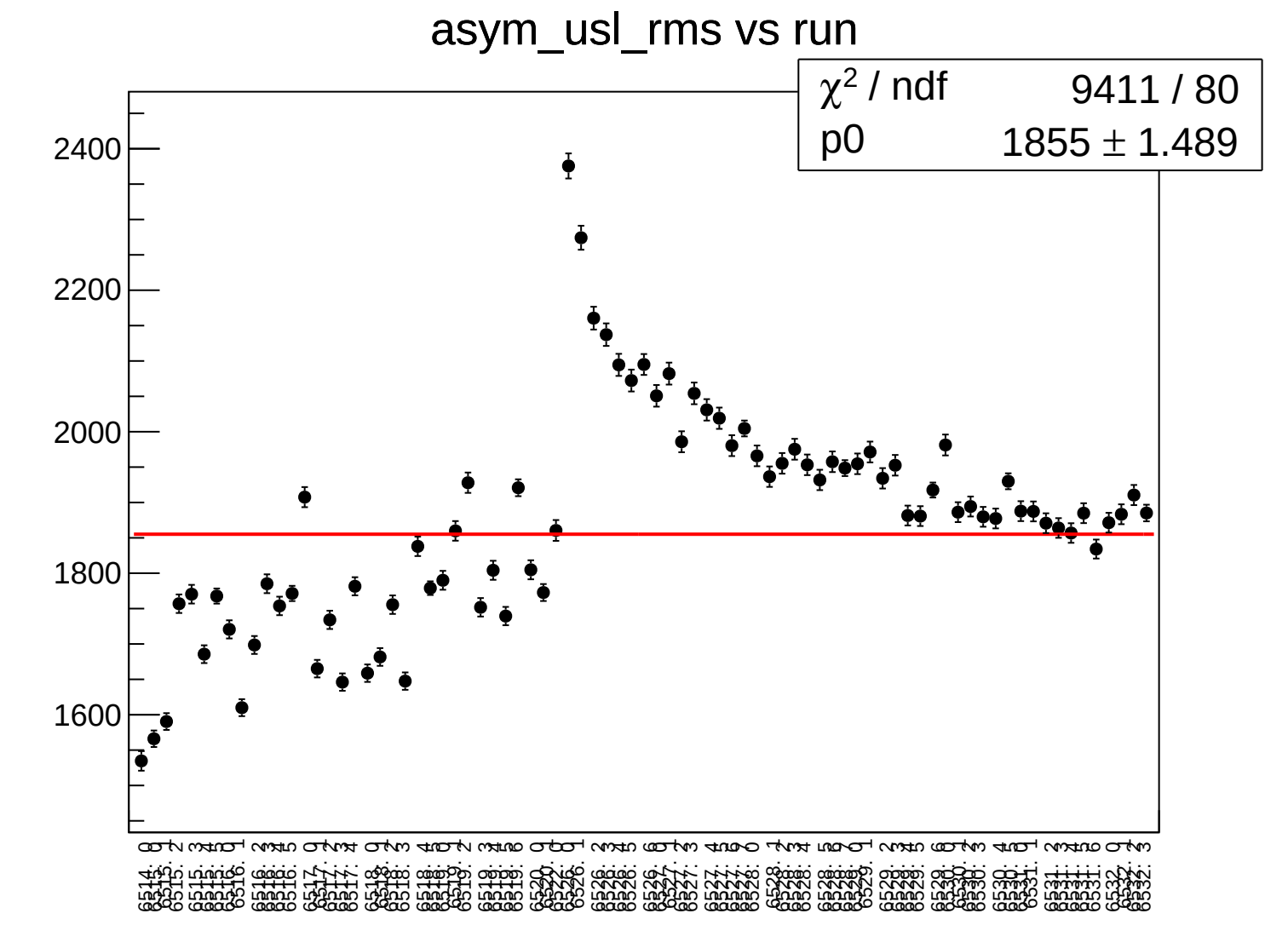

asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 83.78 / 80
p0 1531 ± 1639
pull
Entries 81
Mean −266.4
Std Dev 0

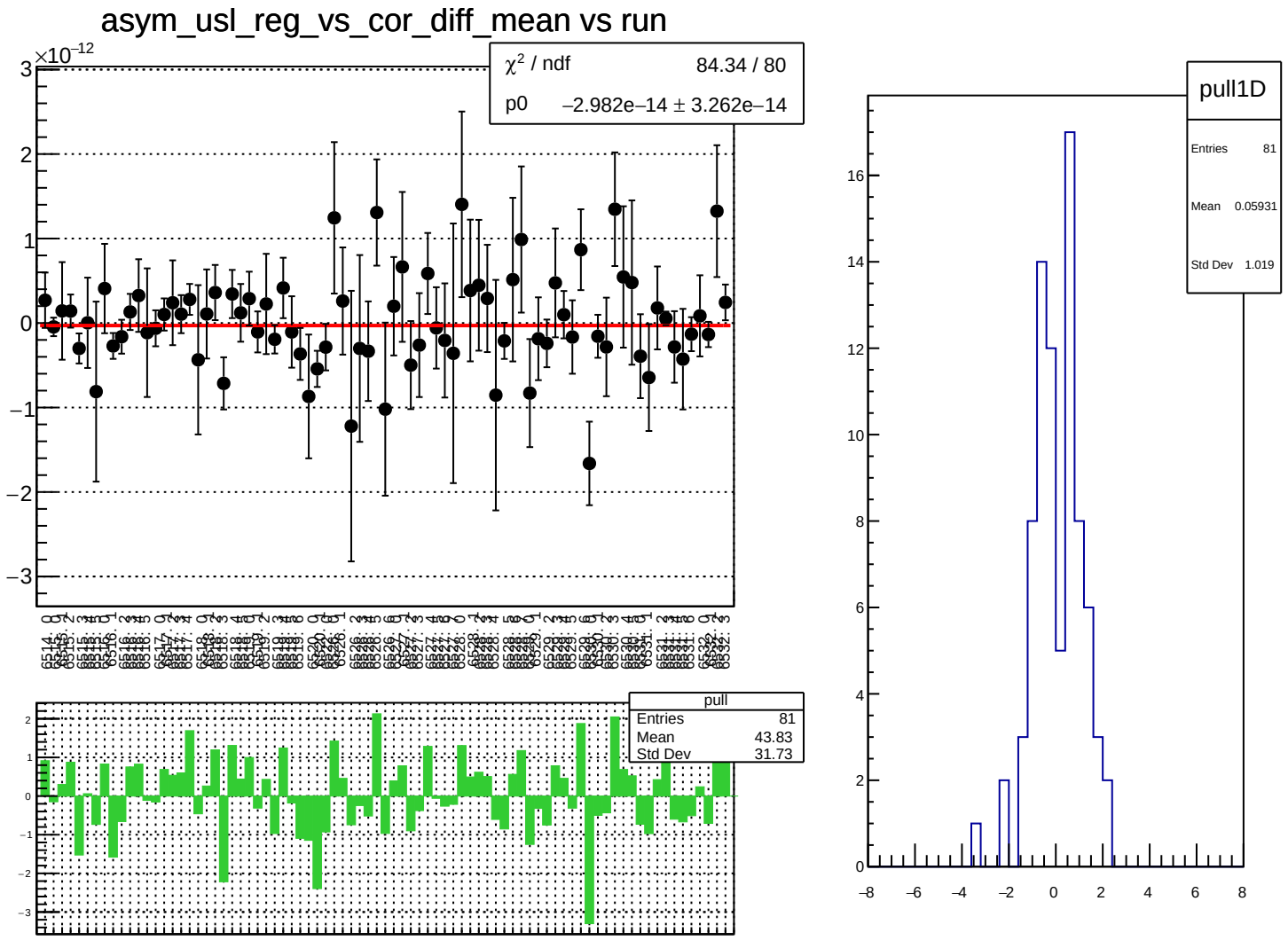

pull1D
Entries 81
Mean −0.01219
Std Dev 1.017

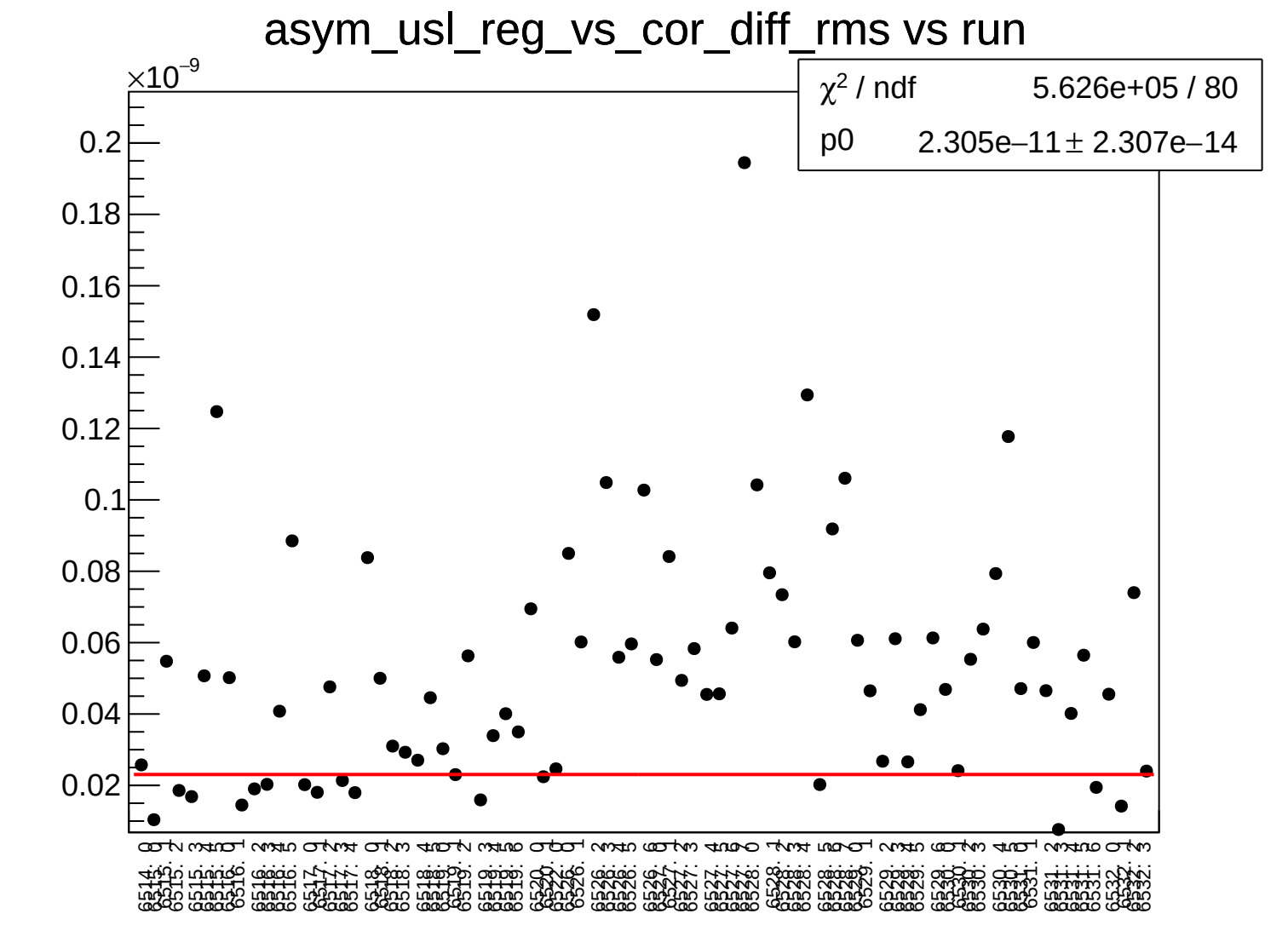

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 2.908e+04 / 80
p0 1434 ± 1.159
1800
1600
1400
1200
1000

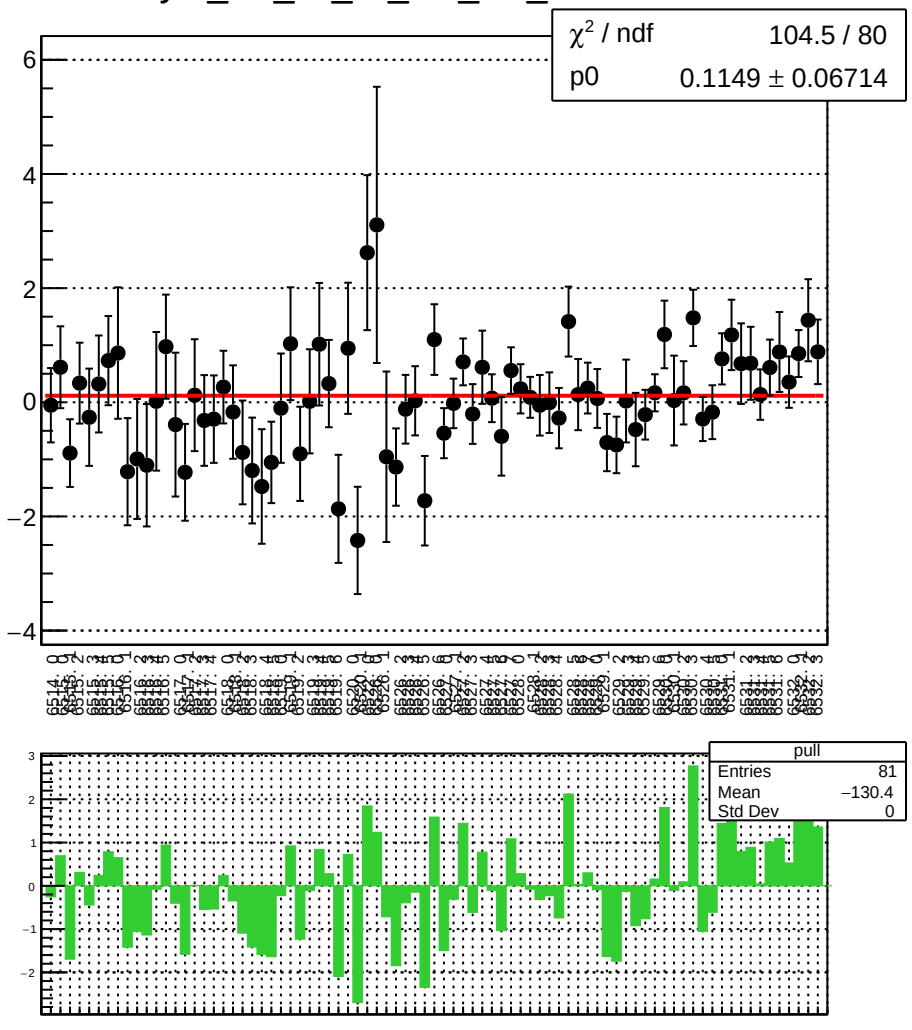

asym_usl_mean vs run
χ² / ndf 62.34 / 80
p0 −235.9 ± 2106
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −230.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

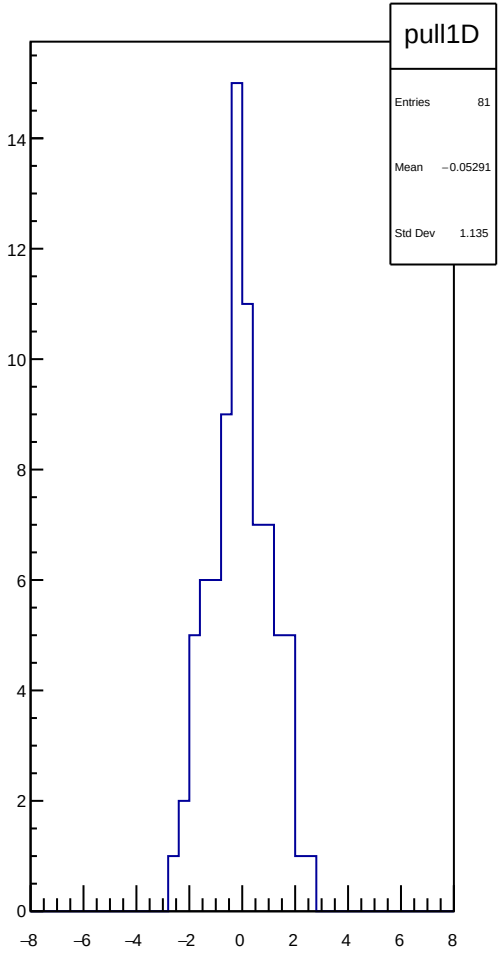

pull1D
Entries 81
Mean 0.01366
Std Dev 0.8772
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

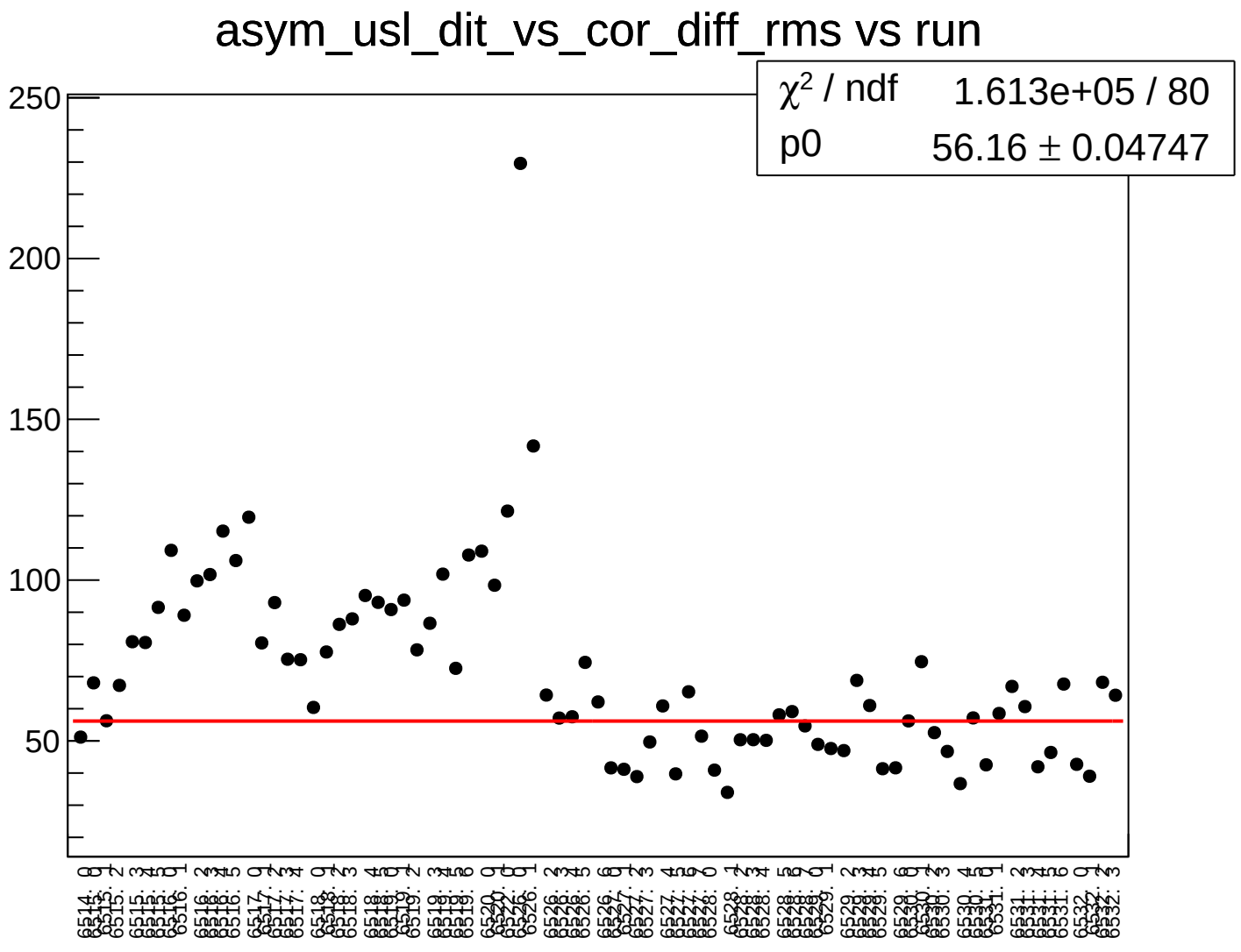

asym_usl_rms vs run
χ² / ndf 9411 / 80
p0 1855 ± 1.489
2400
2200
2000
1800
1600

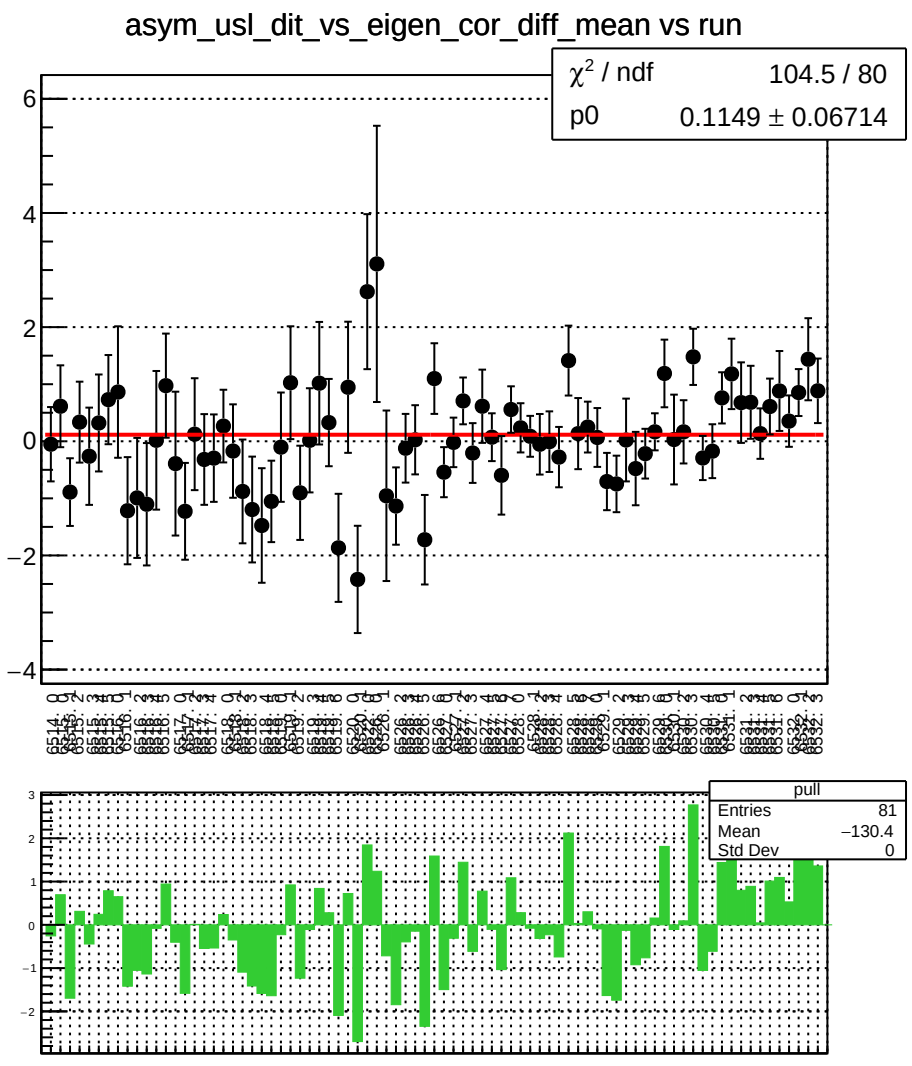

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.34 / 80
p0 −2.982e−14 ± 3.262e−14
pull
Entries 81
Mean 43.83
Std Dev 31.73
pull1D
Entries 81
Mean 0.05931
Std Dev 1.019

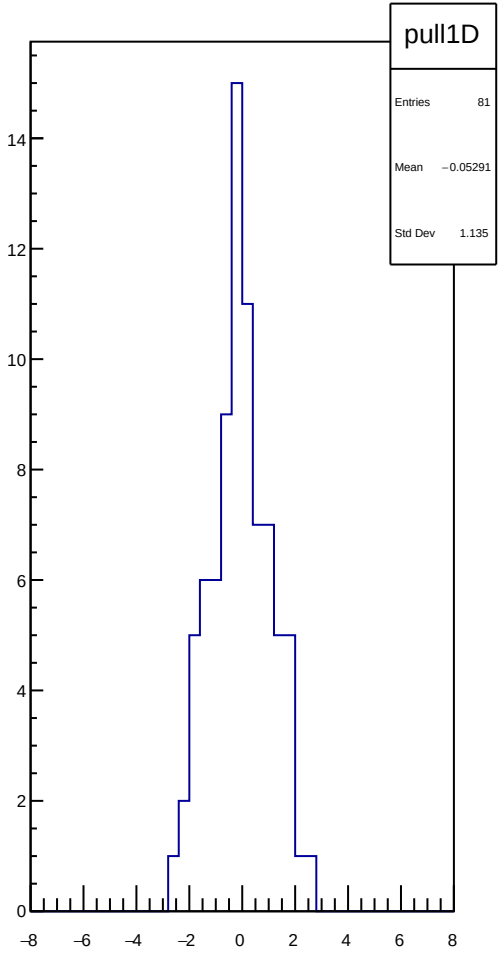

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.626e+05 / 80
p0 2.305e−11 ± 2.307e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

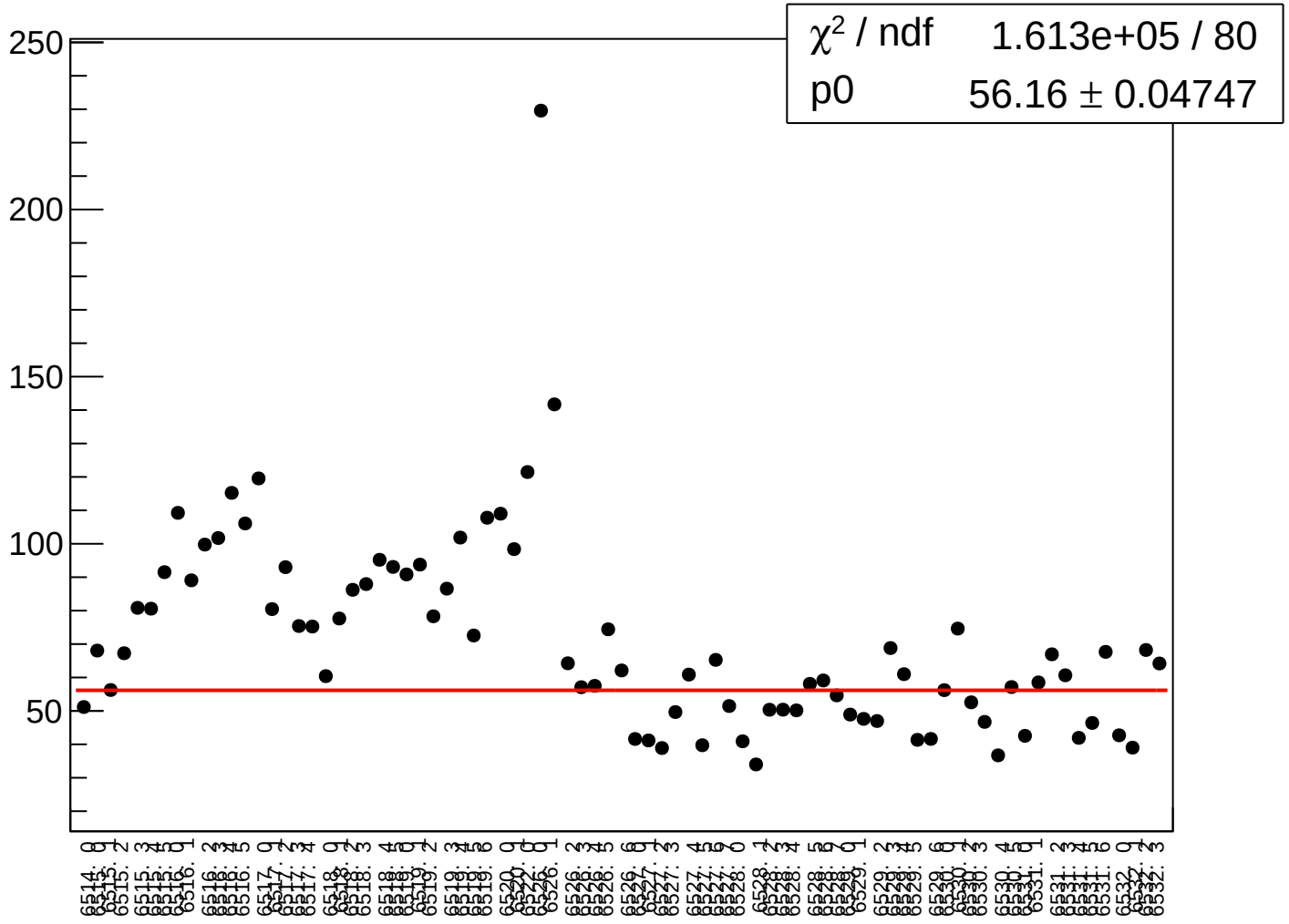

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 104.5 / 80
p0 0.1149 ± 0.06714
pull
Entries 81
Mean −130.4
Std Dev 0

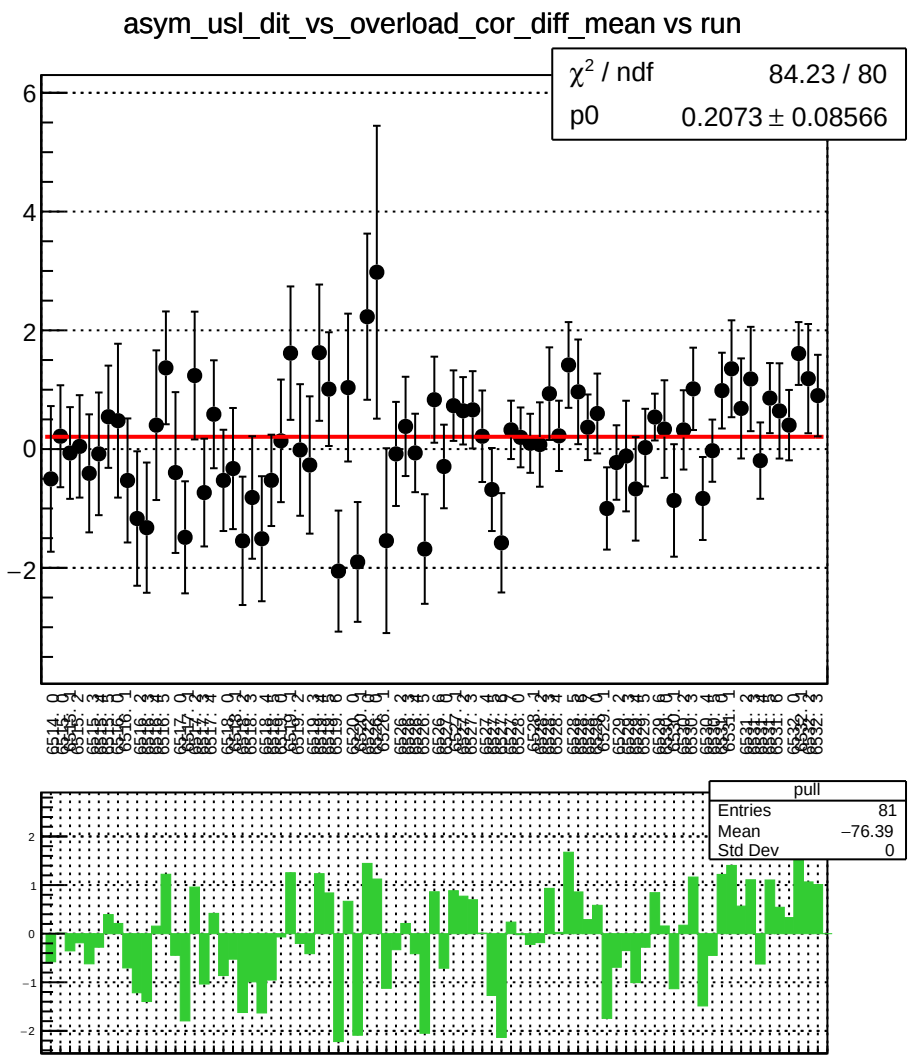

pull1D
Entries 81
Mean −0.05291
Std Dev 1.135

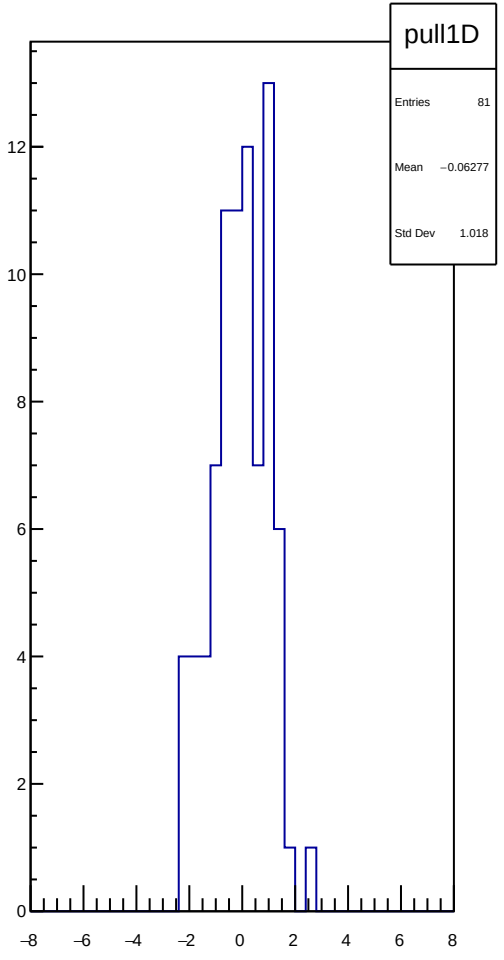

asym_usl_dit_vs_cor_diff_rms vs run
χ² / ndf 1.613e+05 / 80
p0 56.16 ± 0.04747
250
200
150
100
50

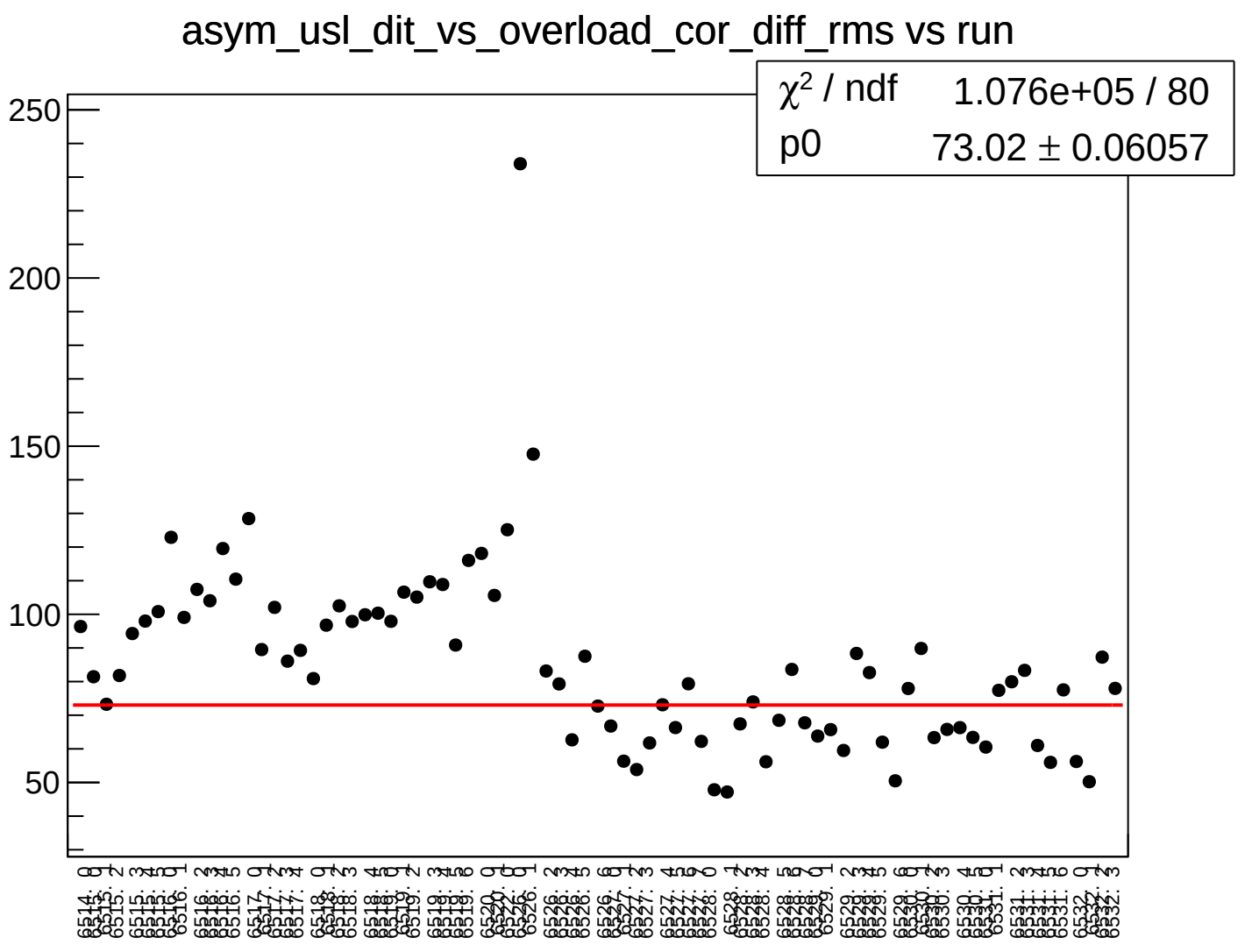

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.5 / 80
p0 0.1149 ± 0.06714
pull
Entries 81
Mean −130.4
Std Dev 0

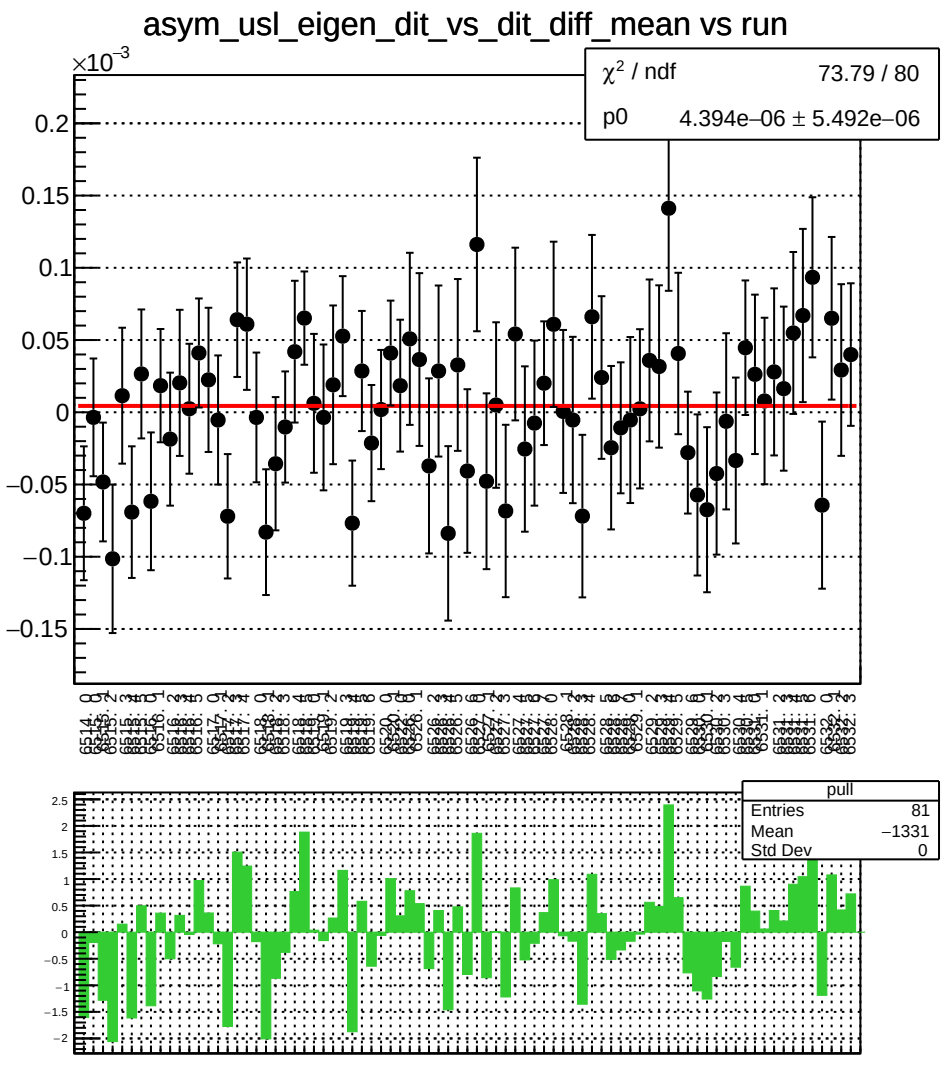

pull1D
Entries 81
Mean −0.05291
Std Dev 1.135

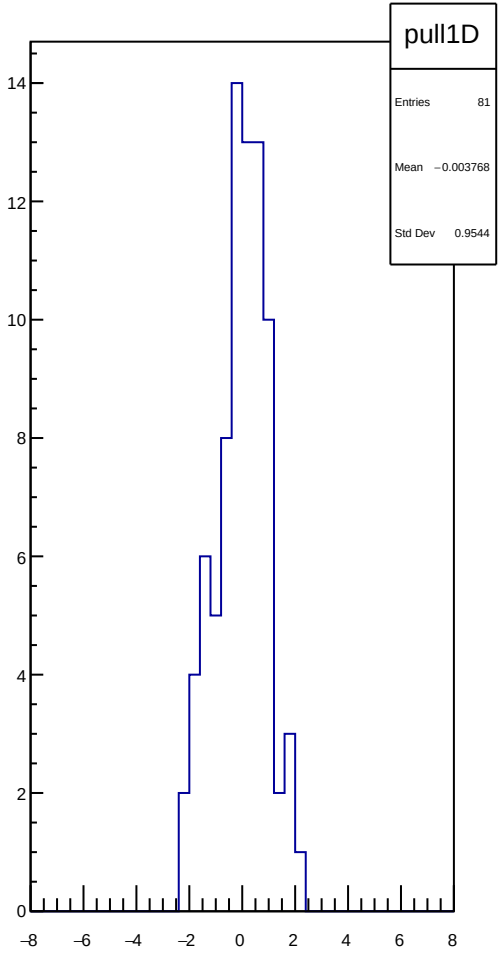

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.613e+05 / 80
p0 56.16 ± 0.04747
250
200
150
100
50

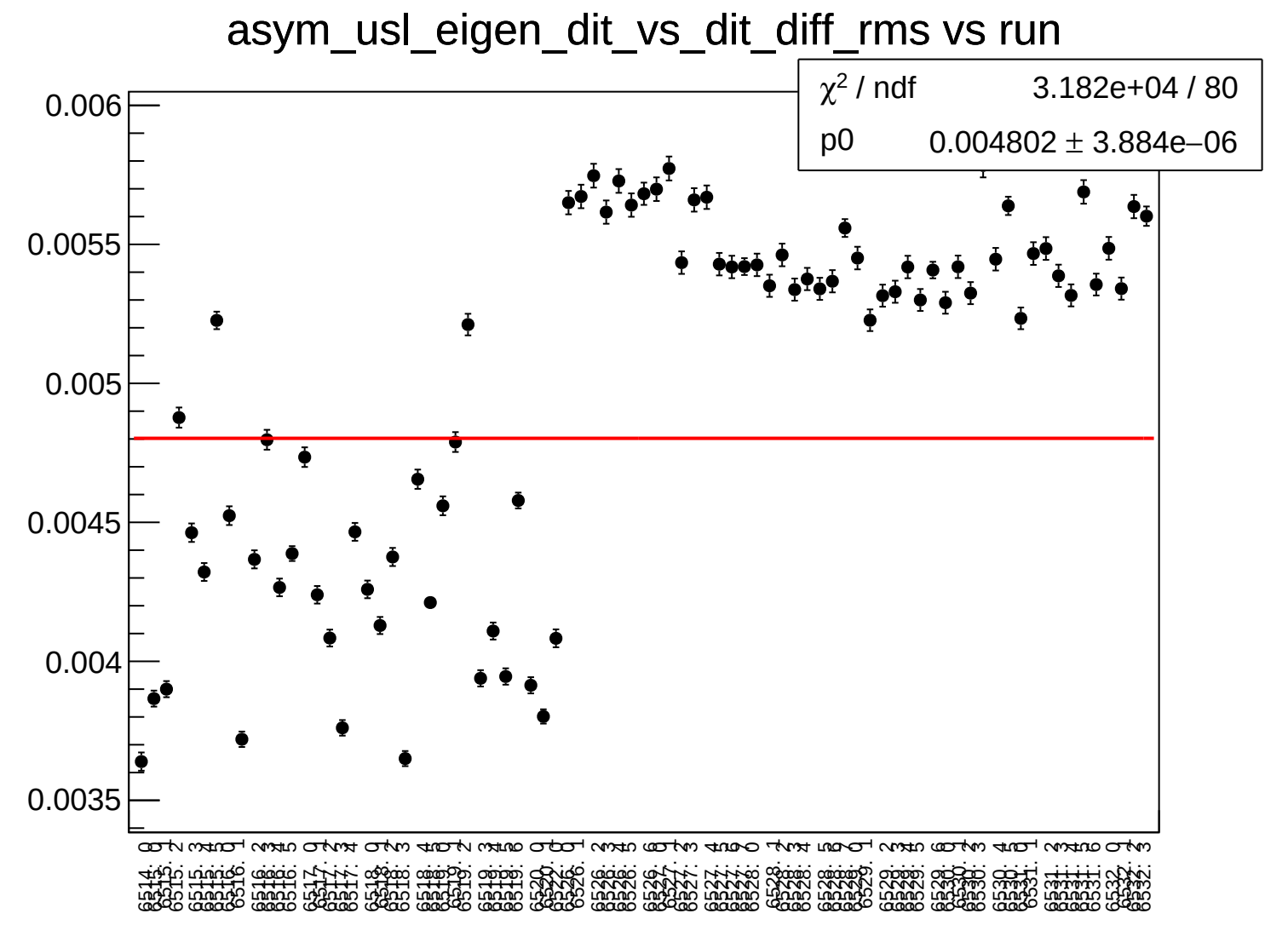

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 84.23 / 80
p0 0.2073 ± 0.08566
pull
Entries 81
Mean −76.39
Std Dev 0

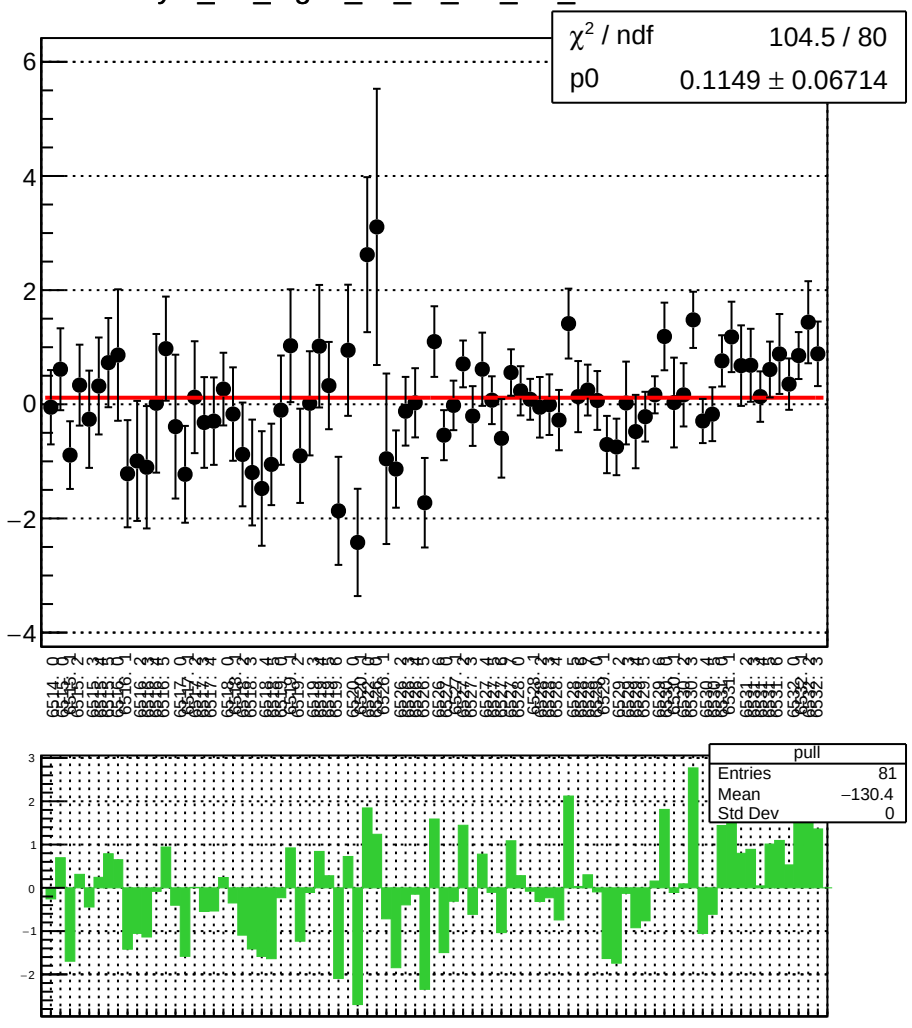

pull1D
Entries 81
Mean −0.06277
Std Dev 1.018

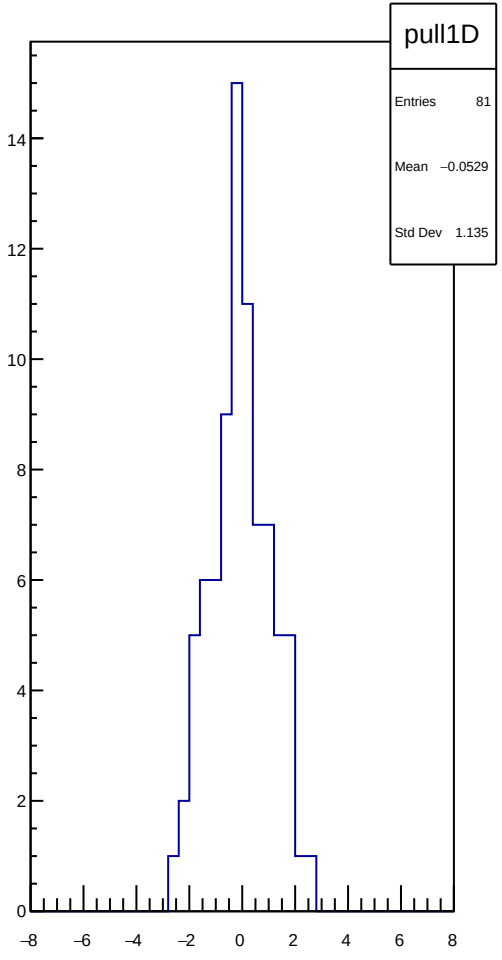

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.076e+05 / 80
p0 73.02 ± 0.06057
250
200
150
100
50

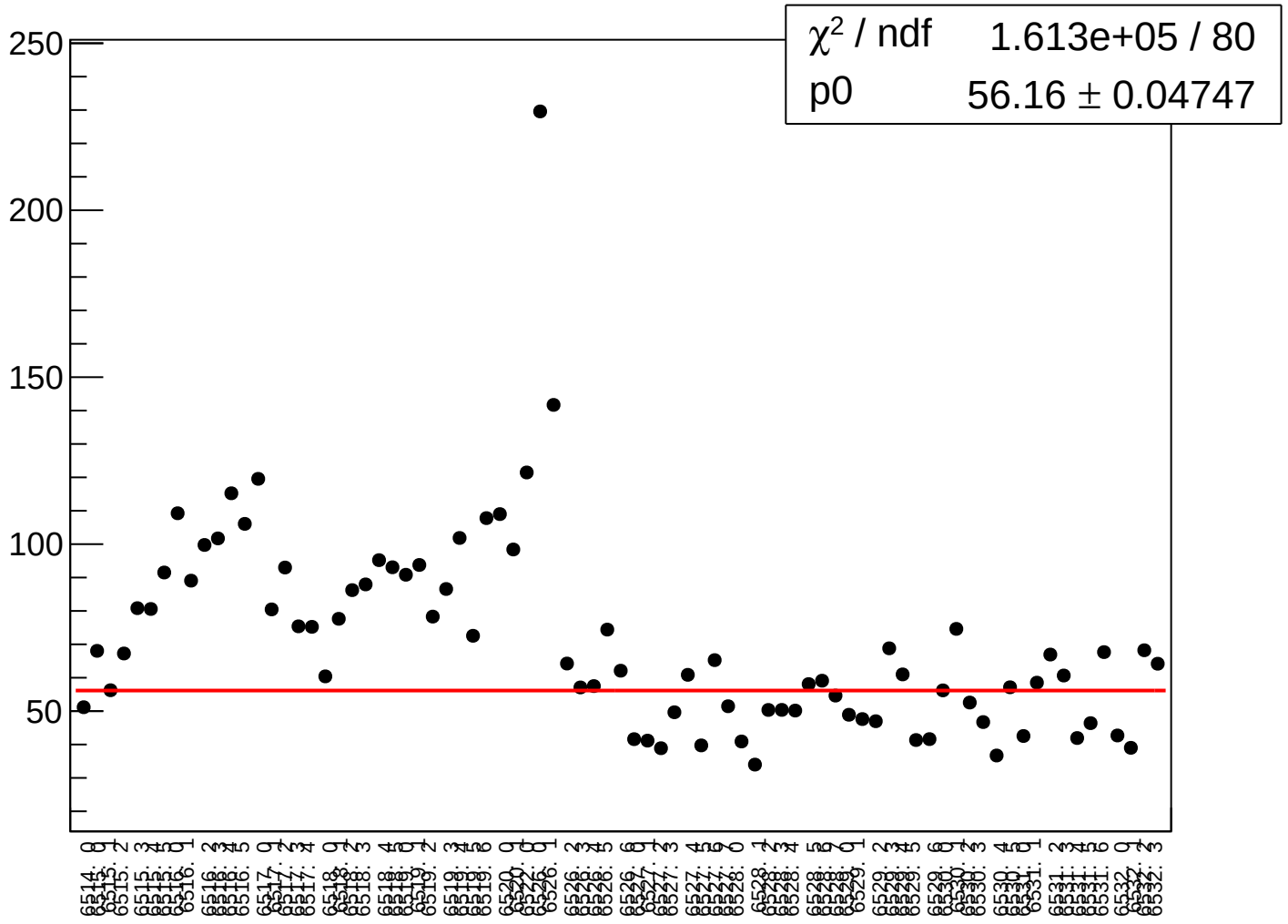

asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.79 / 80
p0 4.394e−06 ± 5.492e−06
pull
Entries 81
Mean −1331
Std Dev 0

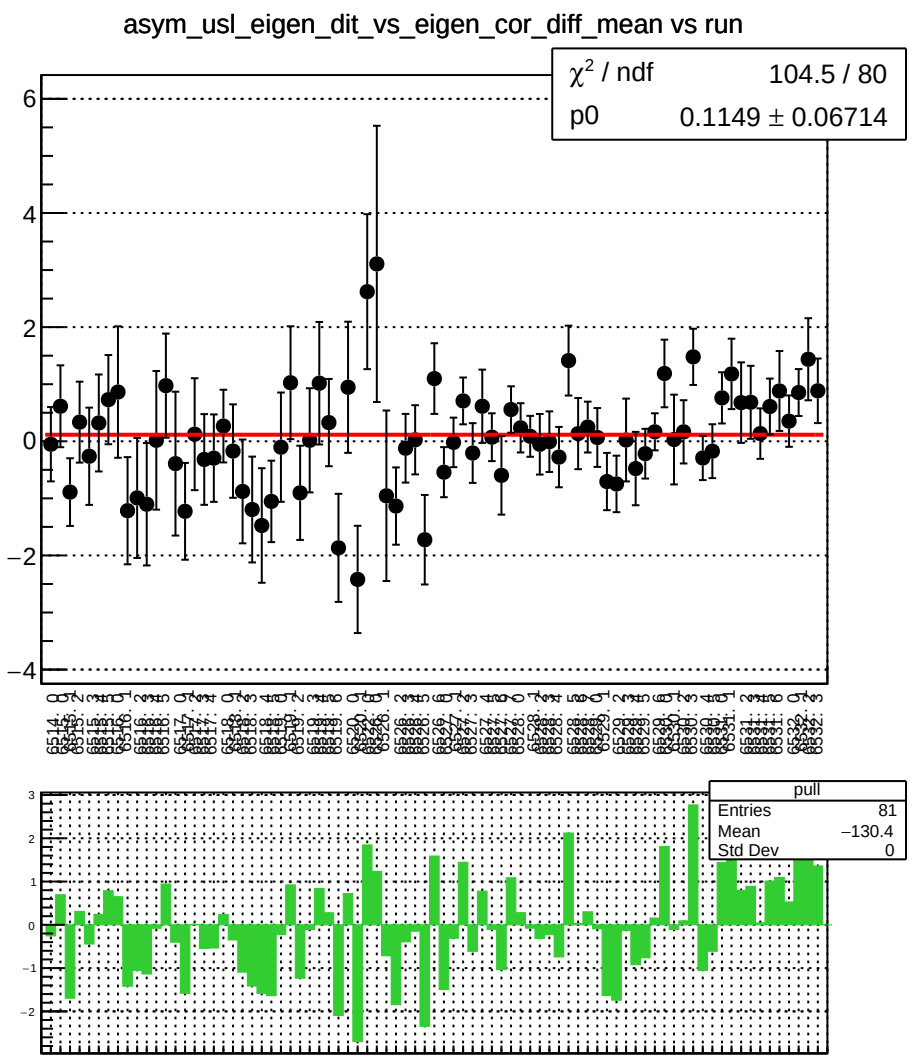

pull1D
Entries 81
Mean −0.003768
Std Dev 0.9544

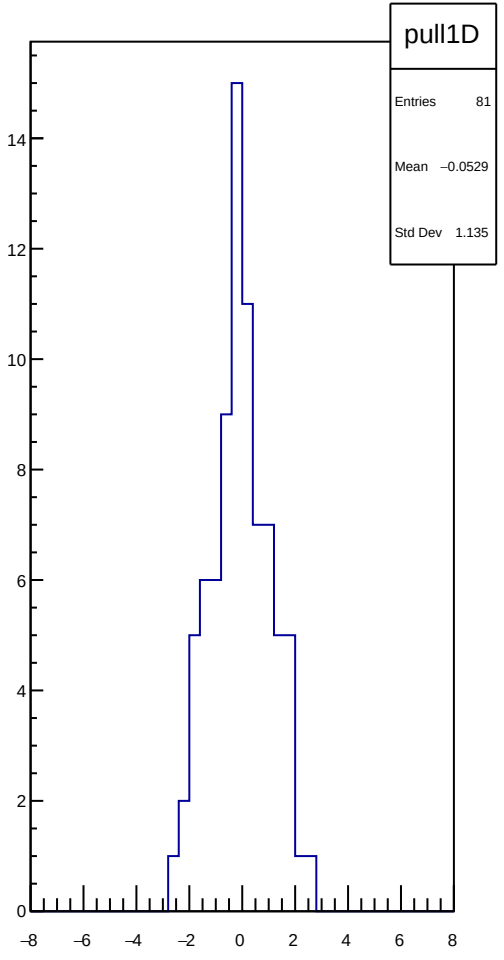

asym_usl_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.182e+04 / 80
p0 0.004802 ± 3.884e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035

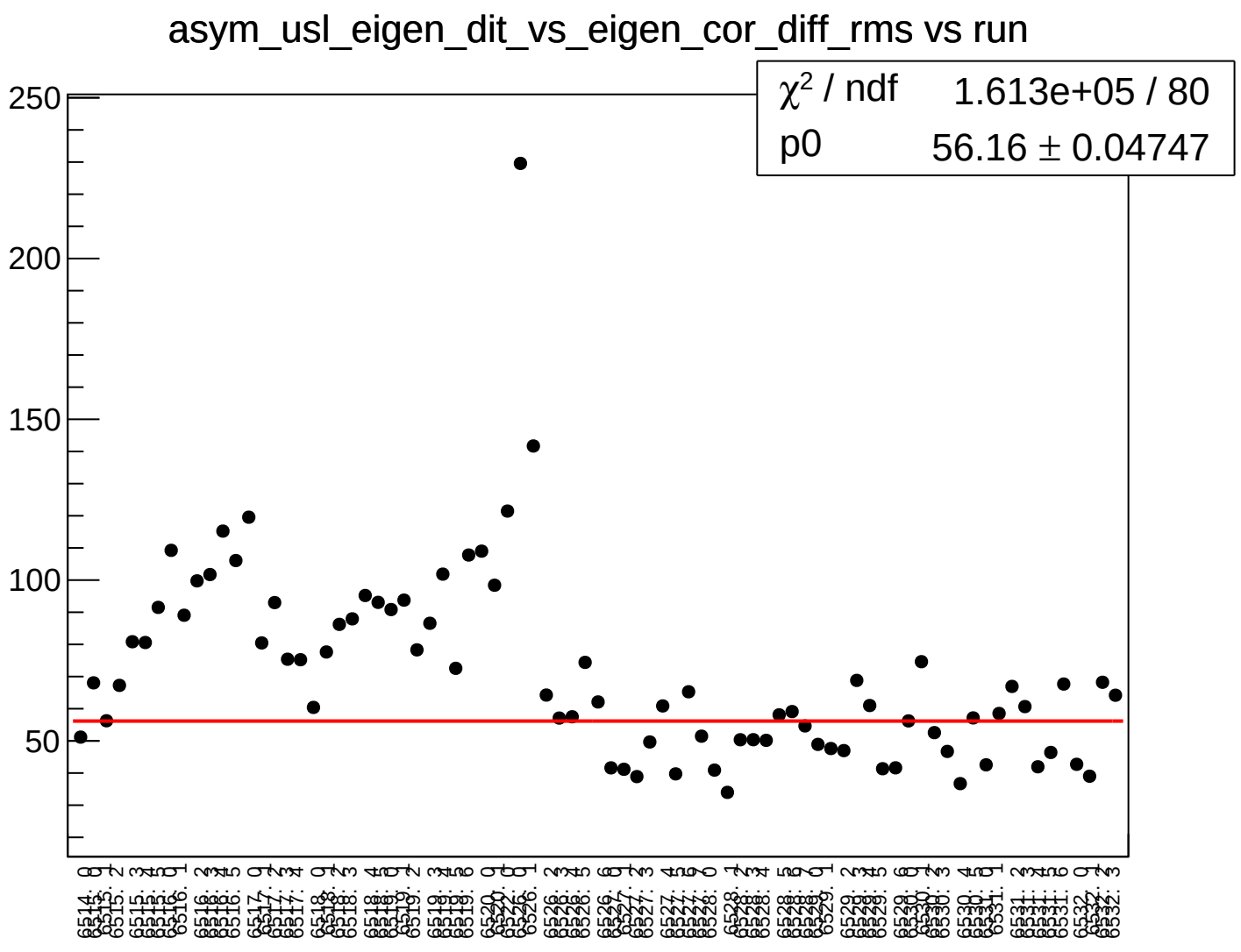

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.5 / 80
p0 0.1149 ± 0.06714
pull
Entries 81
Mean −130.4
Std Dev 0

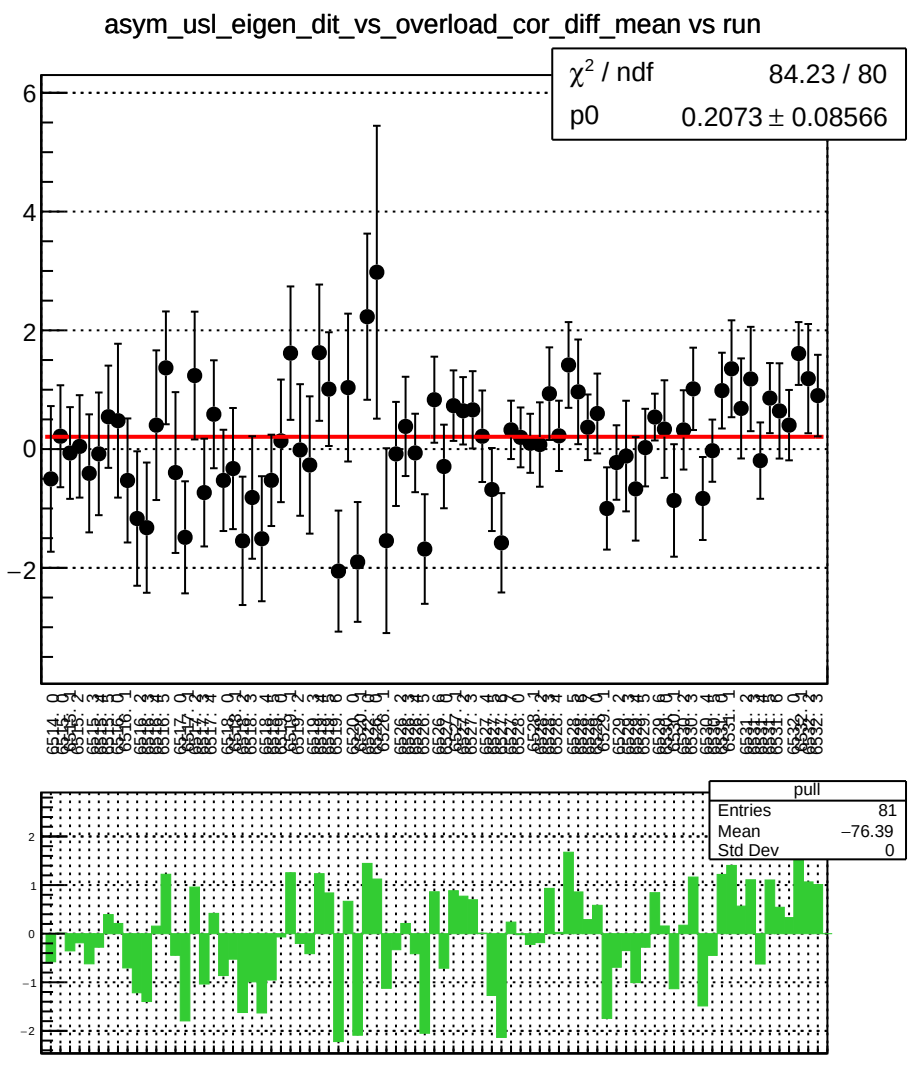

pull1D
Entries 81
Mean −0.0529
Std Dev 1.135

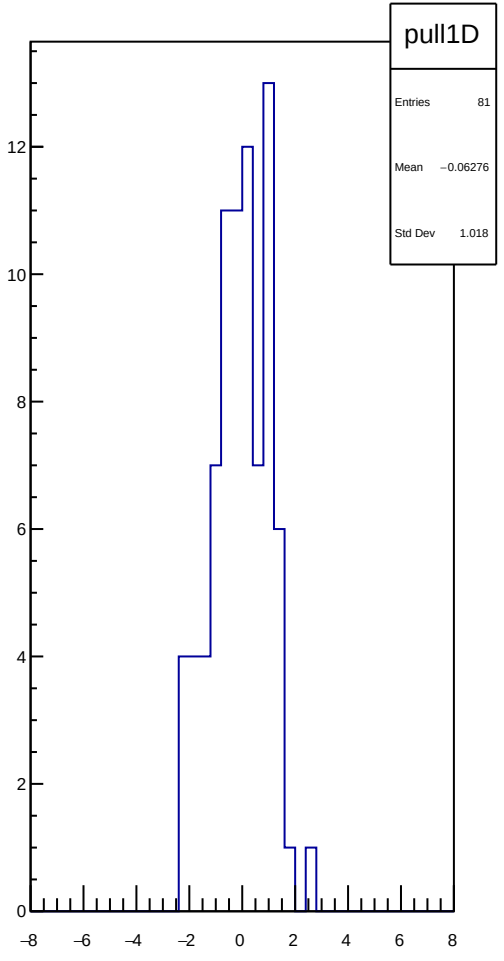

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.613e+05 / 80
p0 56.16 ± 0.04747
250
200
150
100
50

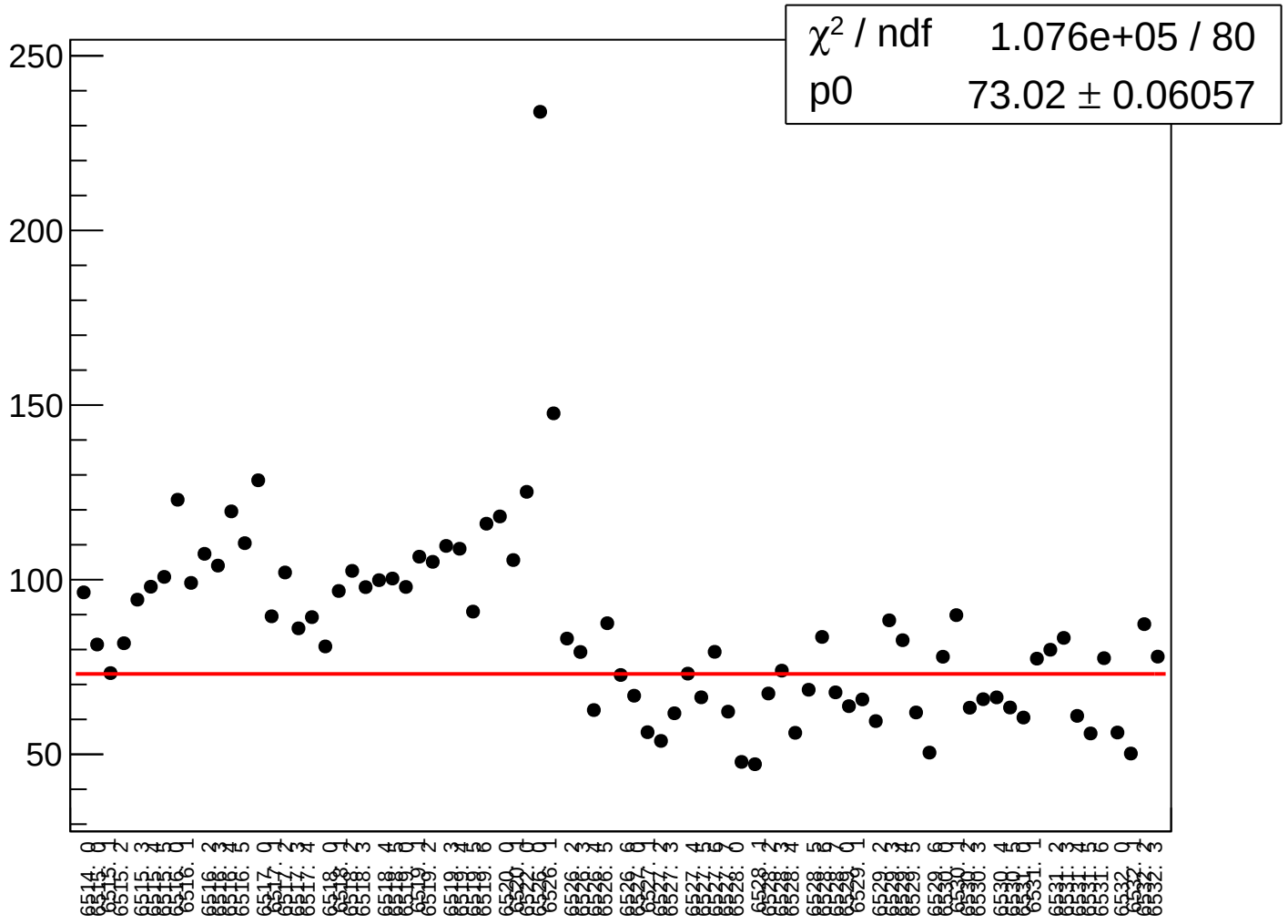

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.5 / 80
p0 0.1149 ± 0.06714
pull
Entries 81
Mean −130.4
Std Dev 0

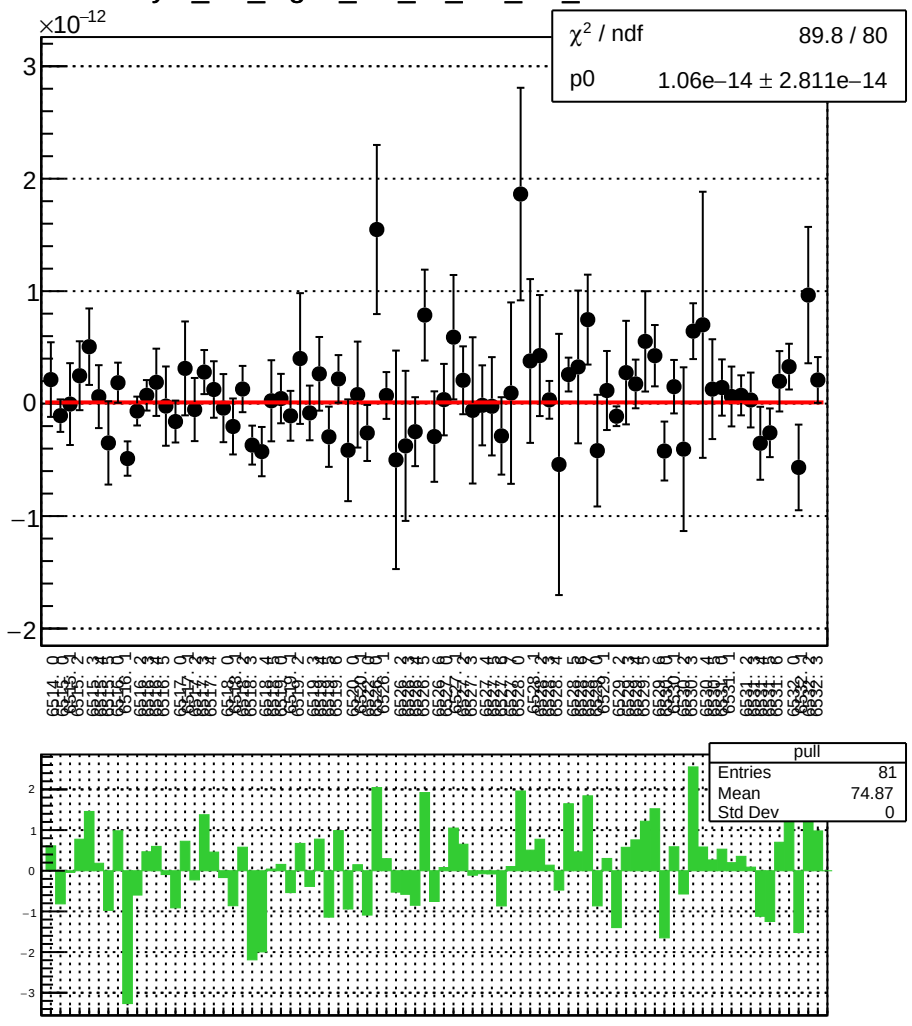

pull1D
Entries 81
Mean −0.0529
Std Dev 1.135

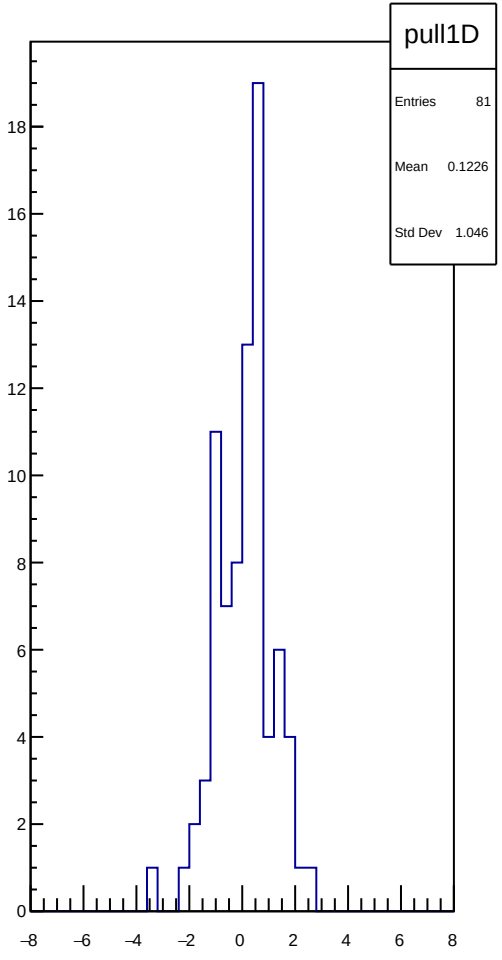

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.613e+05 / 80
p0 56.16 ± 0.04747
250
200
150
100
50

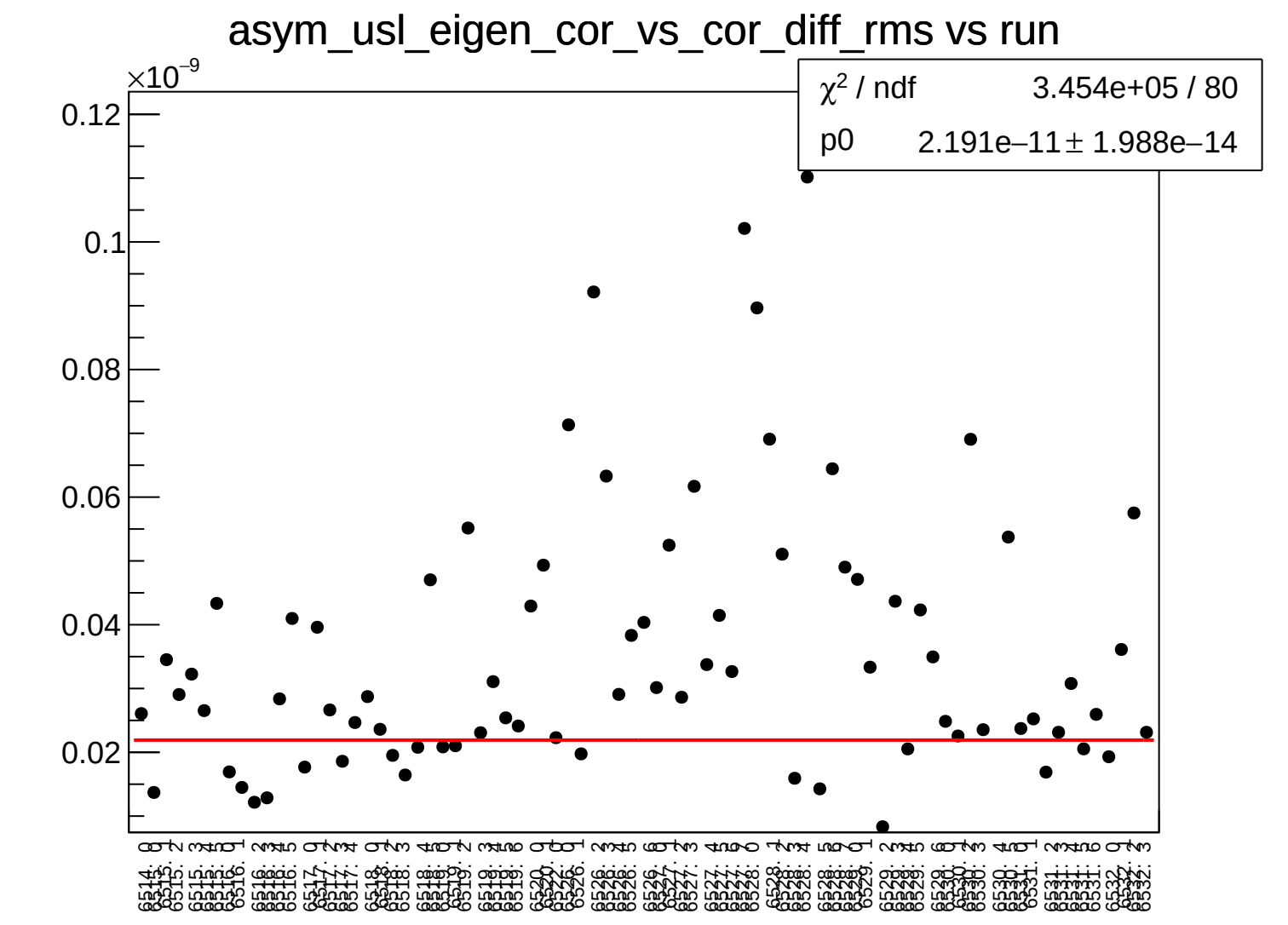

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 84.23 / 80
p0 0.2073 ± 0.08566
pull
Entries 81
Mean −76.39
Std Dev 0

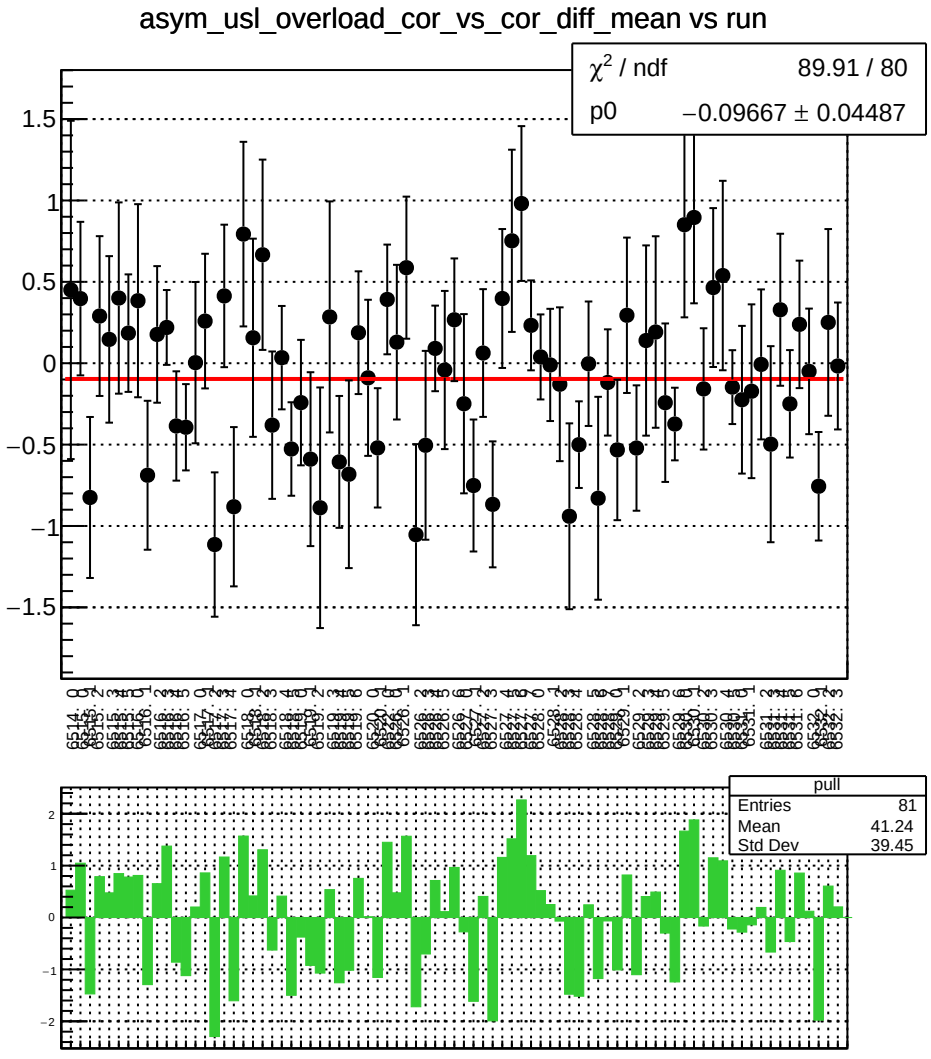

pull1D
Entries 81
Mean −0.06276
Std Dev 1.018

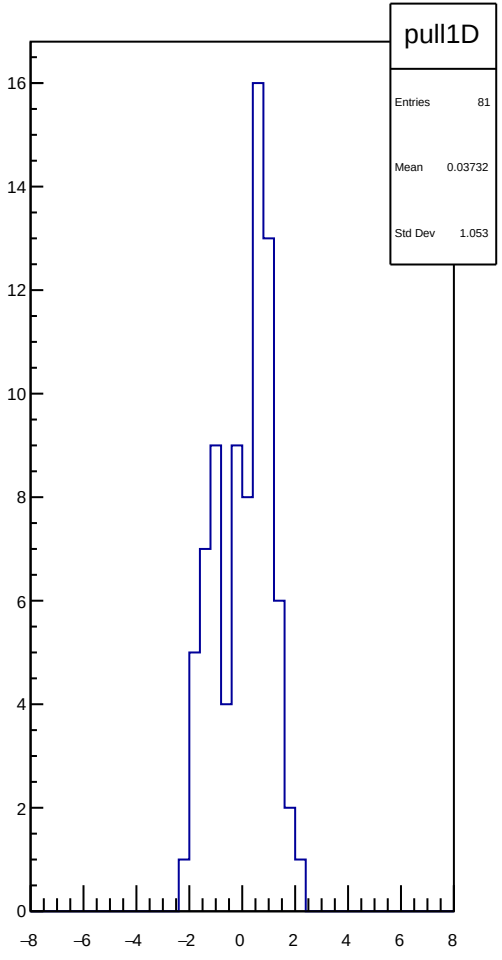

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.076e+05 / 80
p0 73.02 ± 0.06057
250
200
150
100
50

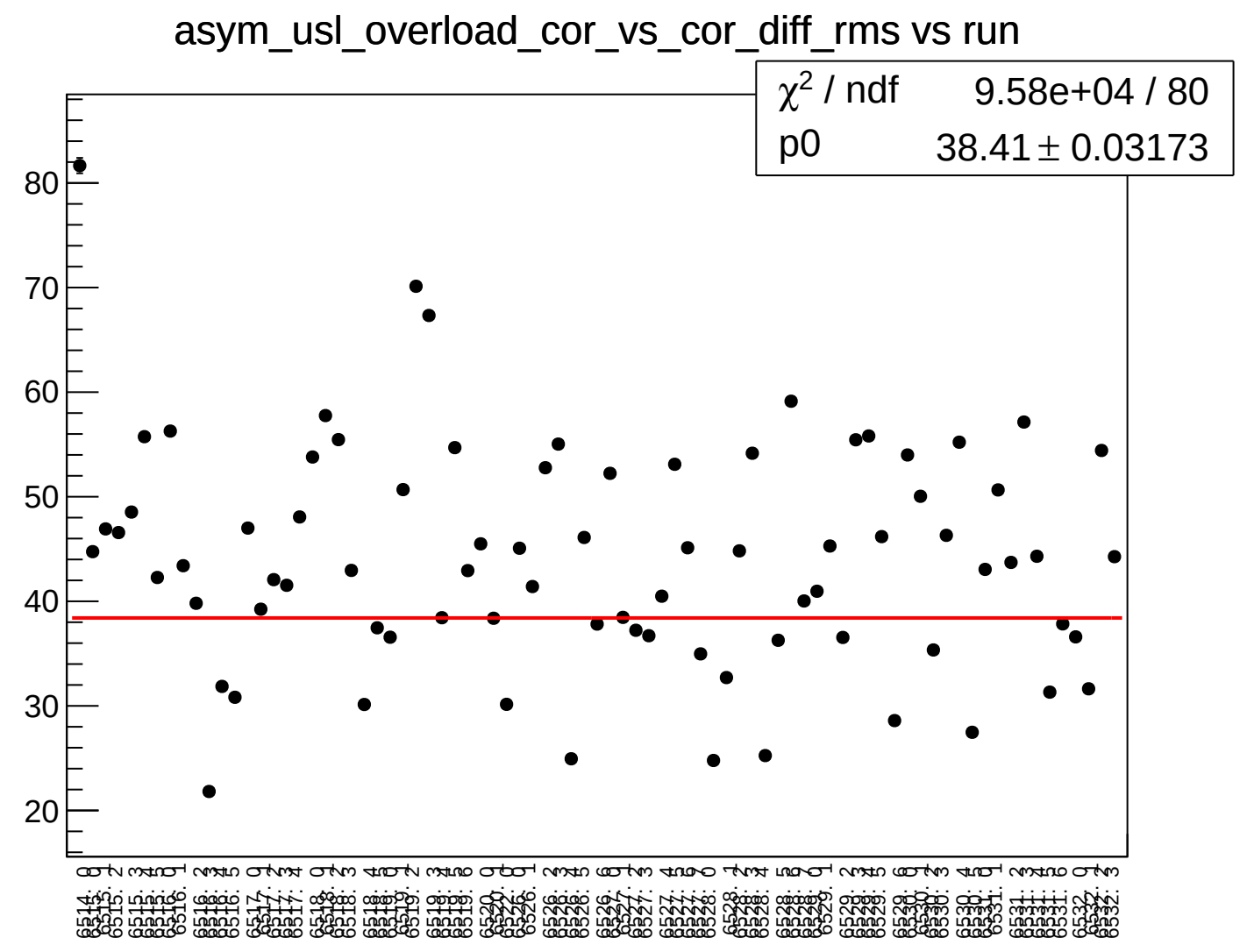

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.8 / 80
p0 1.06e−14 ± 2.811e−14
pull
Entries 81
Mean 74.87
Std Dev 0

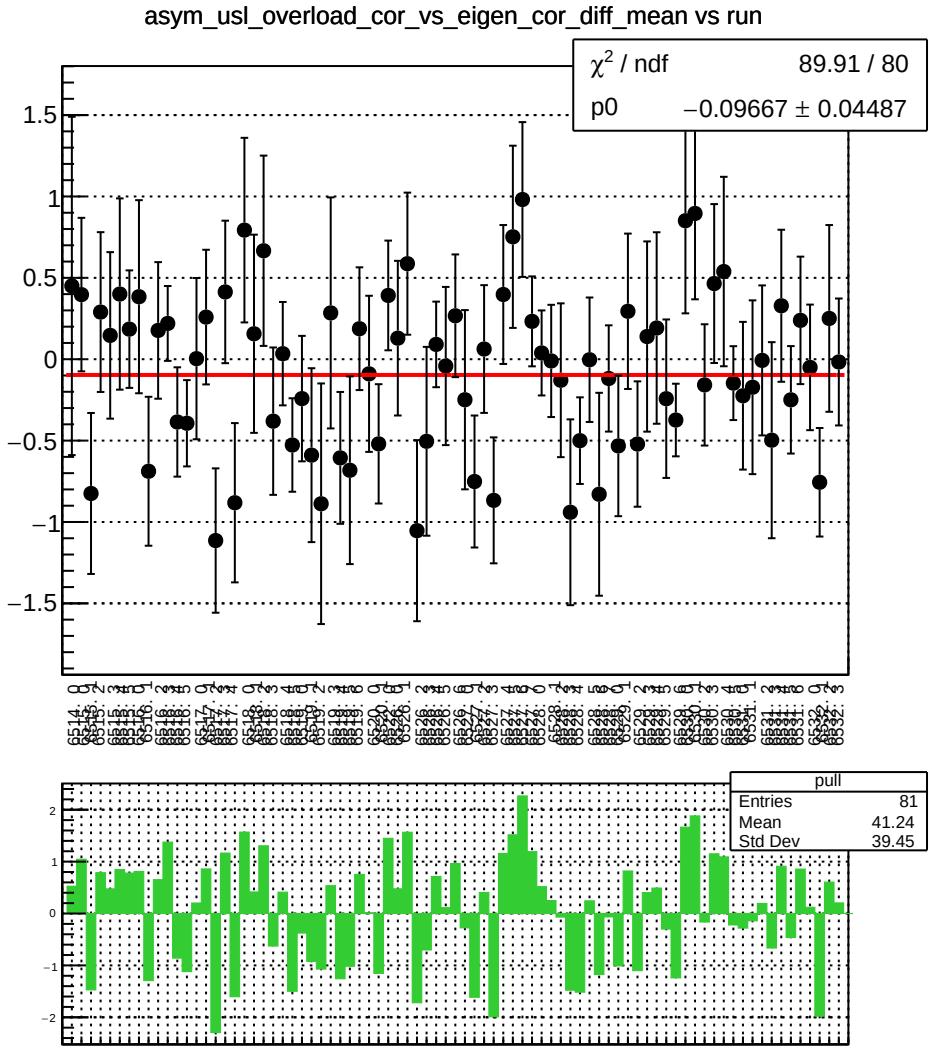

pull1D
Entries 81
Mean 0.1226
Std Dev 1.046

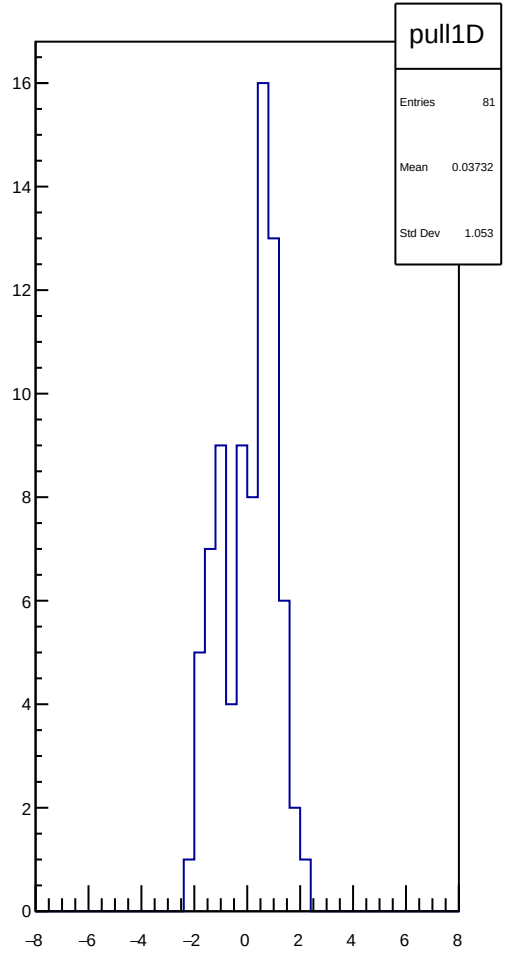

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.454e+05 / 80
p0 2.191e−11 ± 1.988e−14
0.12
0.1
0.08
0.06
0.04
0.02

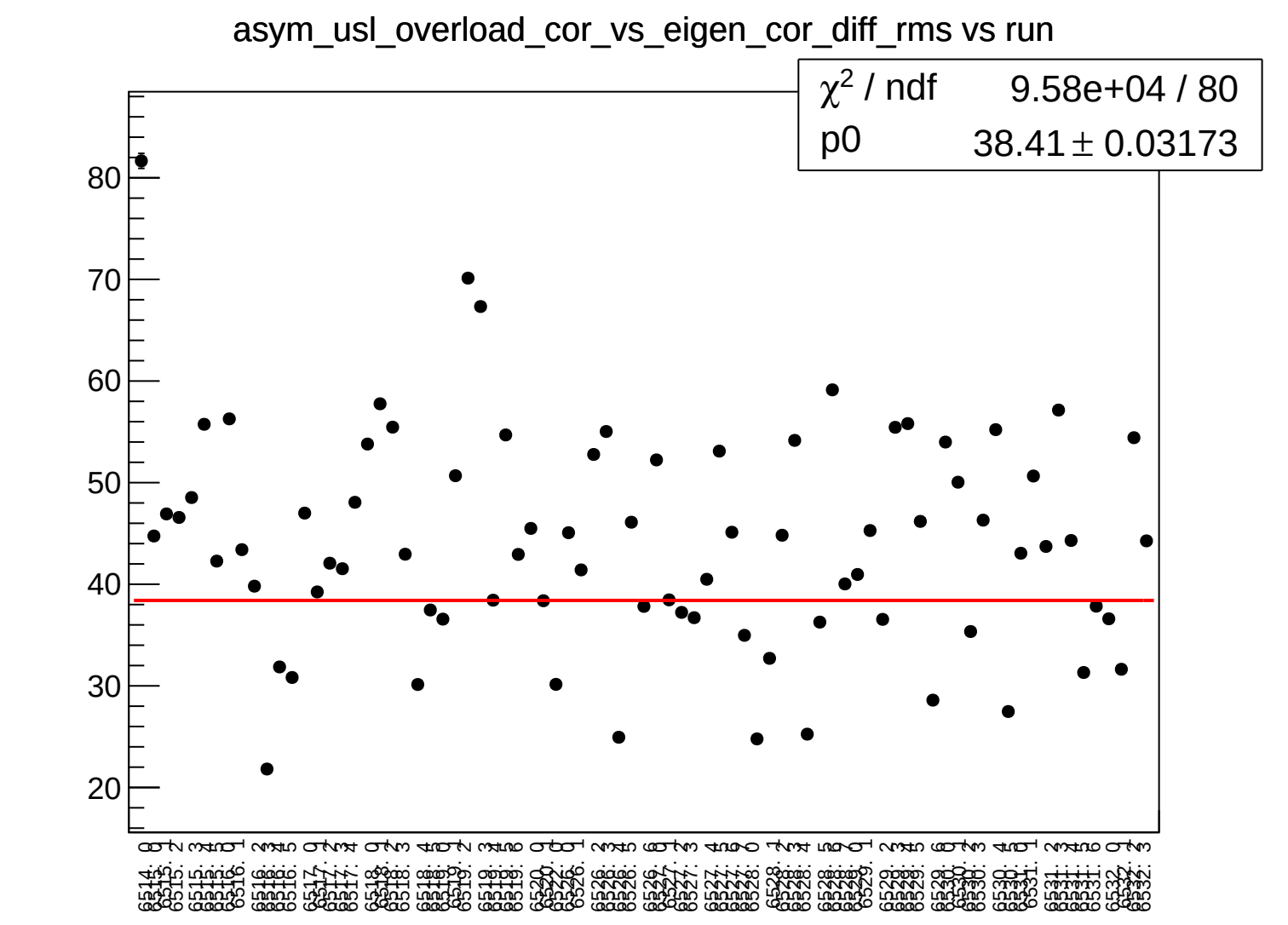

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 89.91 / 80
p0 −0.09667 ± 0.04487
pull
Entries 81
Mean 41.24
Std Dev 39.45

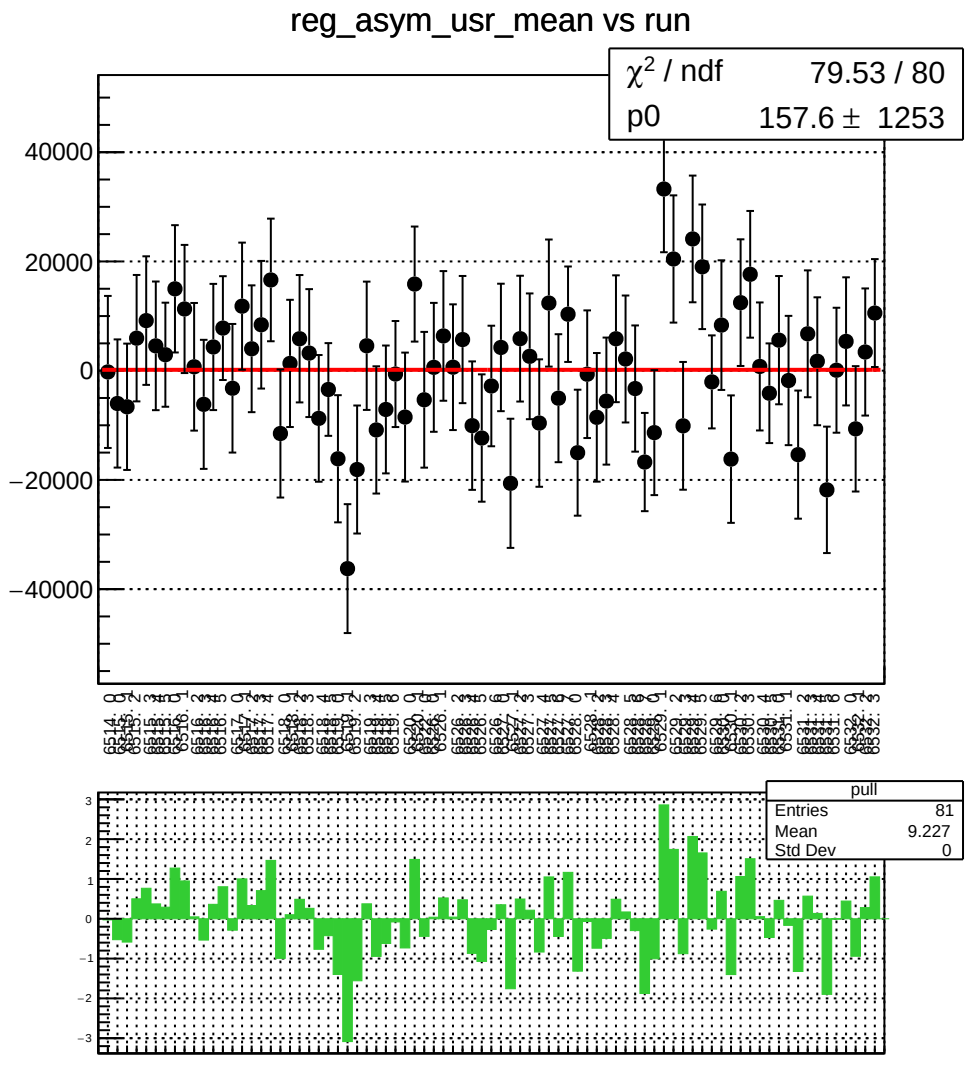

pull1D
Entries 81
Mean 0.03732
Std Dev 1.053

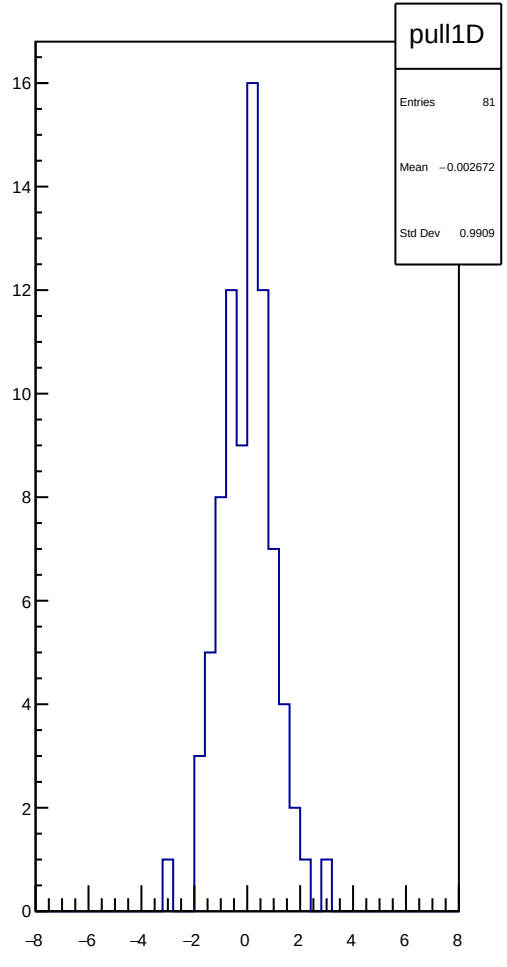

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 9.58e+04 / 80
p0 38.41 ± 0.03173
80
70
60
50
40
30
20

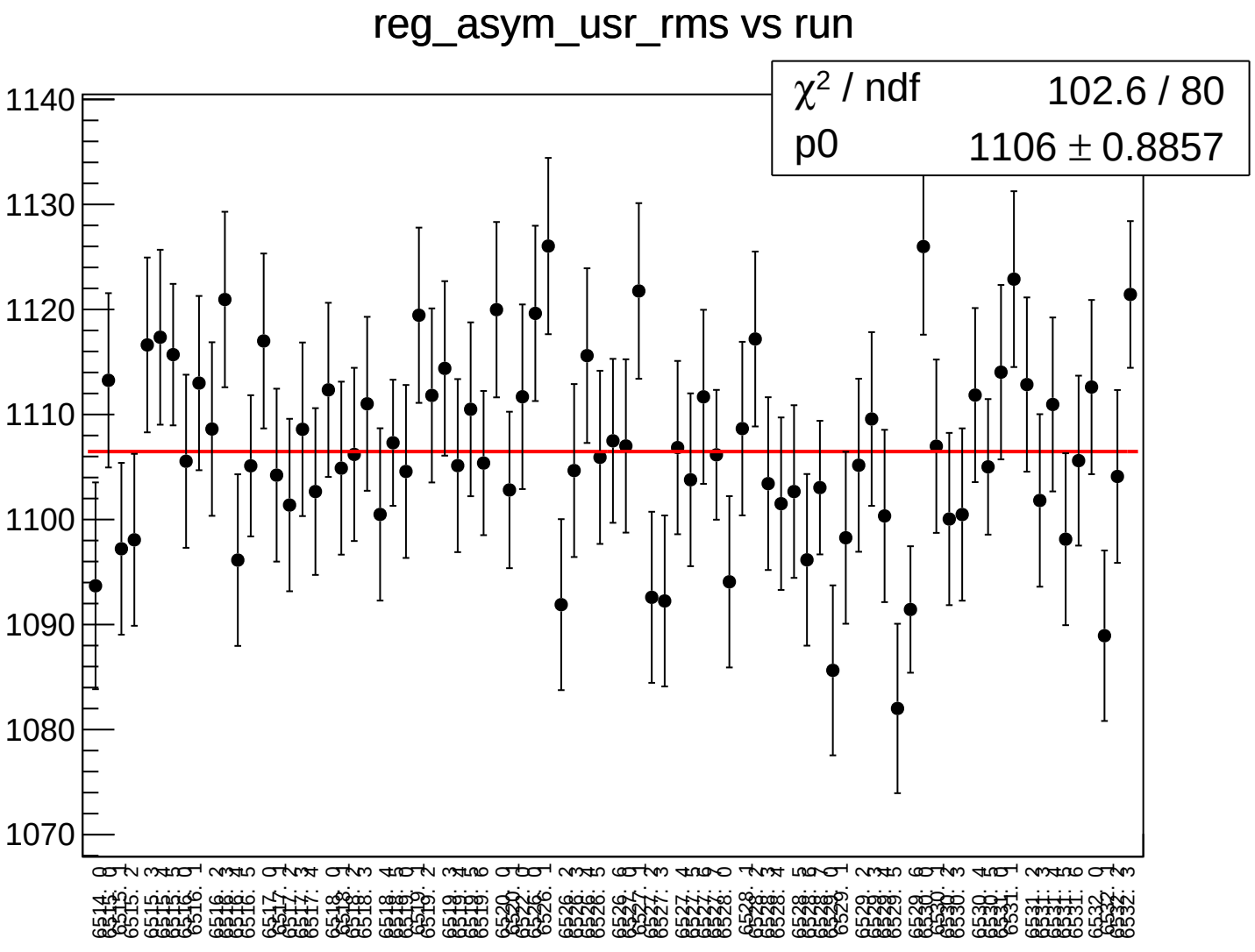

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.91 / 80
p0 −0.09667 ± 0.04487
pull
Entries 81
Mean 41.24
Std Dev 39.45

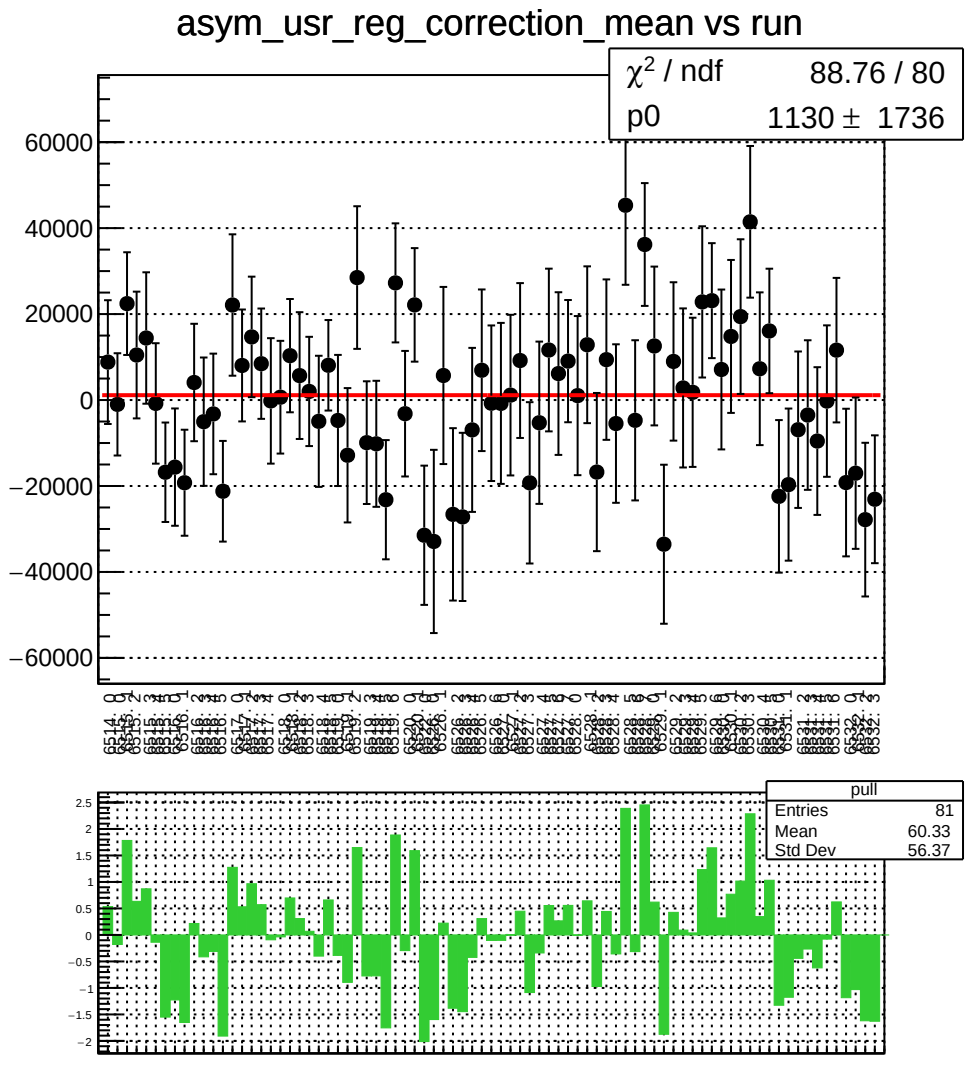

pull1D
Entries 81
Mean 0.03732
Std Dev 1.053

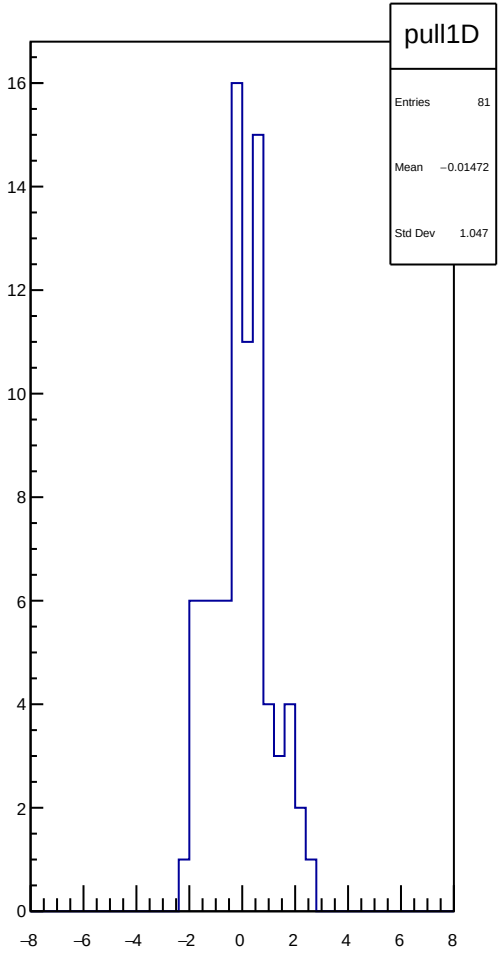

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.58e+04 / 80
p0 38.41 ± 0.03173
80
70
60
50
40
30
20

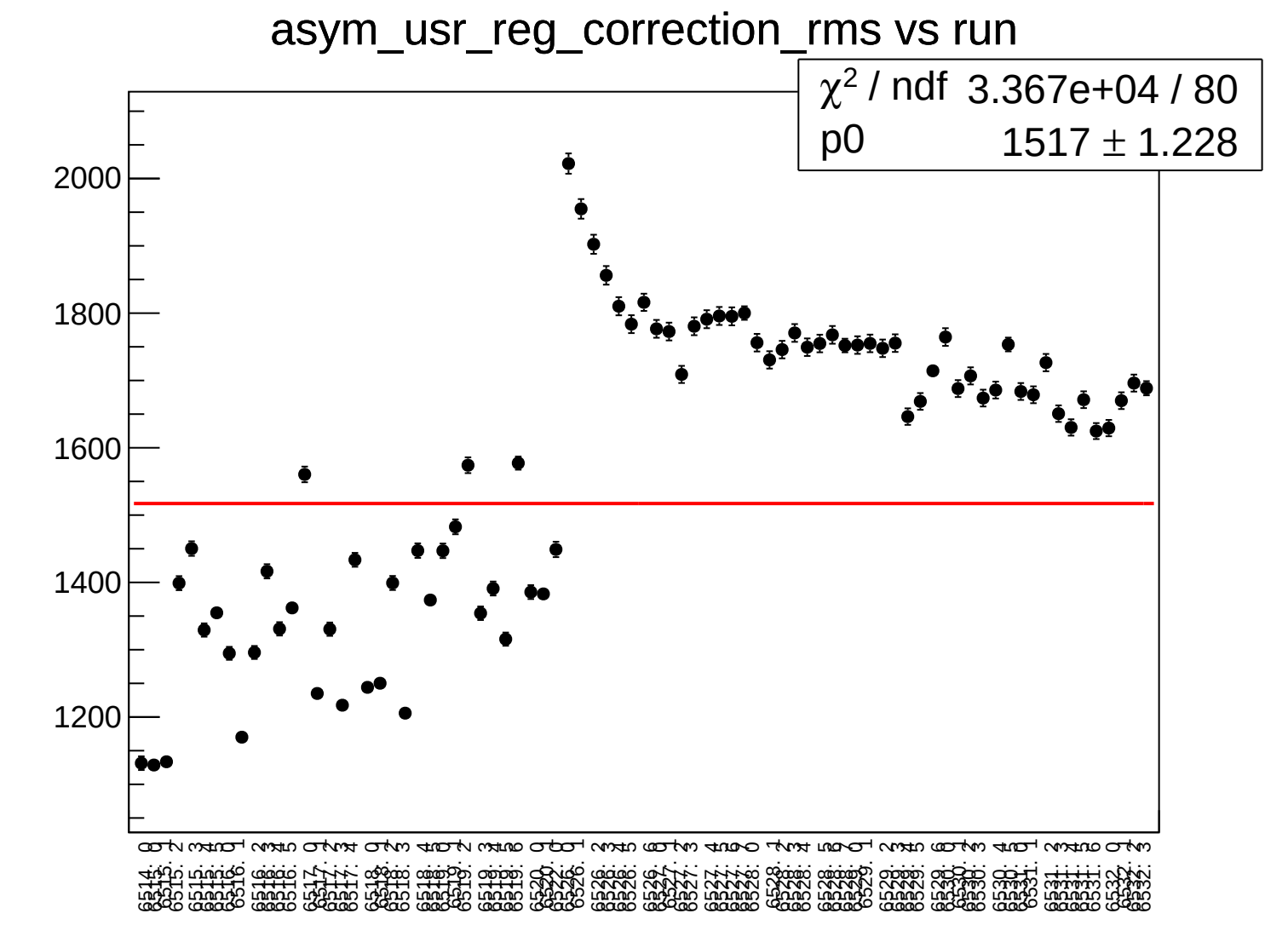

reg_asym_usr_mean vs run
χ² / ndf 79.53 / 80
p0 157.6 ± 1253
40000
20000
0
−20000
−40000
pull
Entries 81
Mean 9.227
Std Dev 0
3
2
1
0
−1
−2
−3

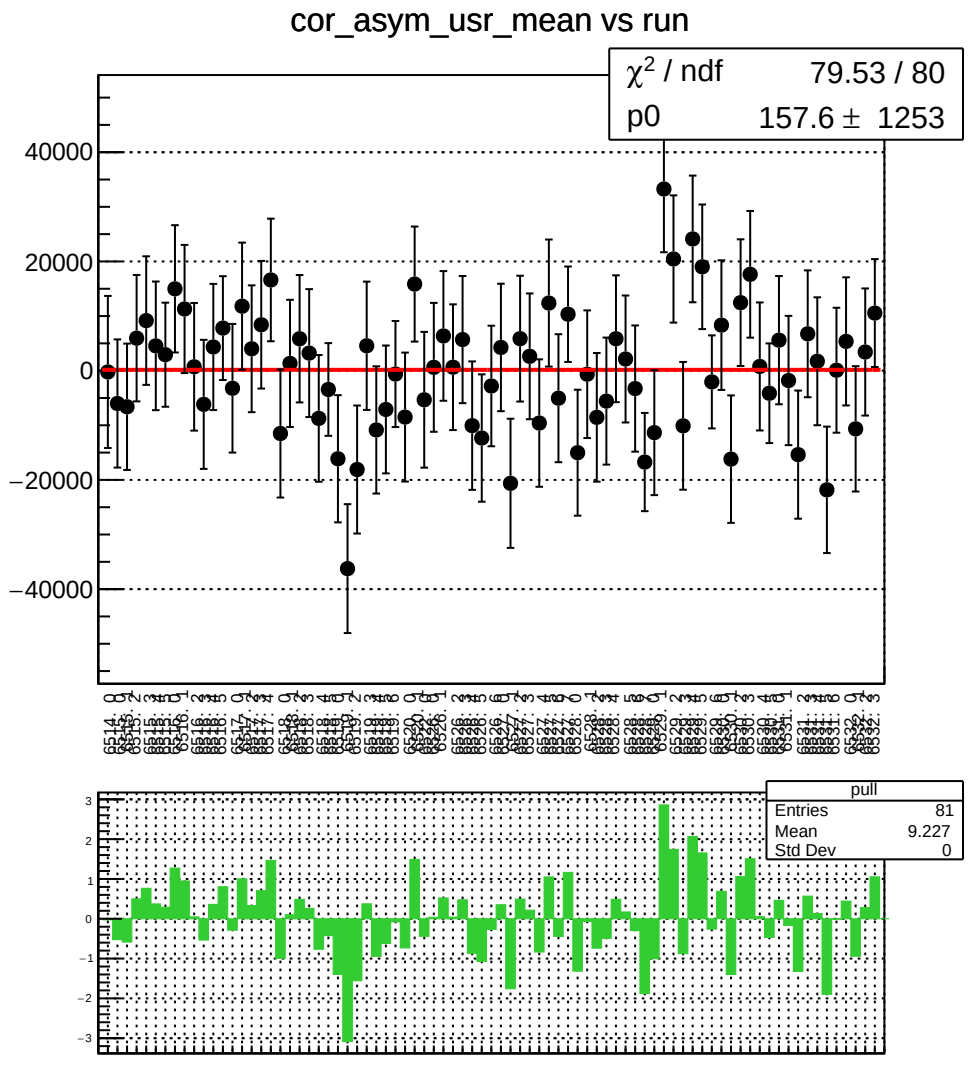

pull1D
Entries 81
Mean −0.002672
Std Dev 0.9909
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

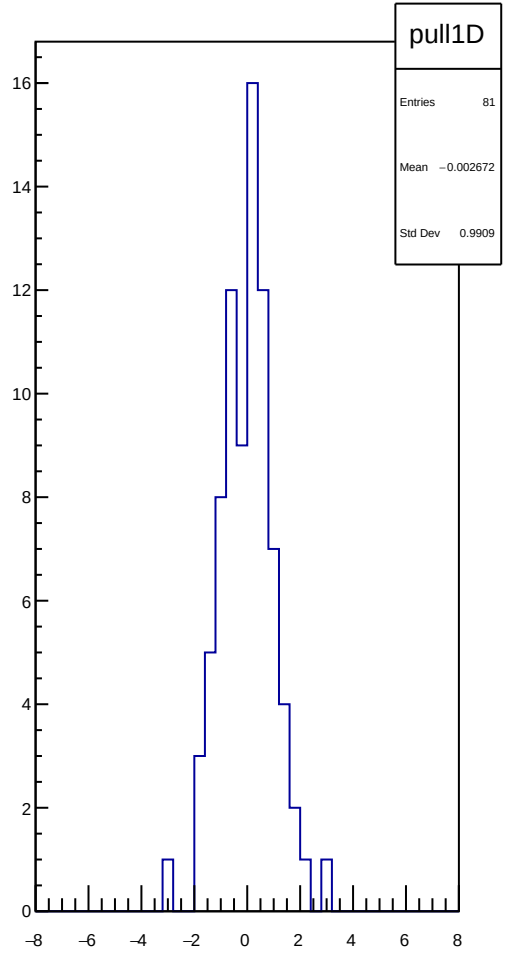

reg_asym_usr_rms vs run
χ² / ndf 102.6 / 80
p0 1106 ± 0.8857
1140
1130
1120
1110
1100
1090
1080
1070

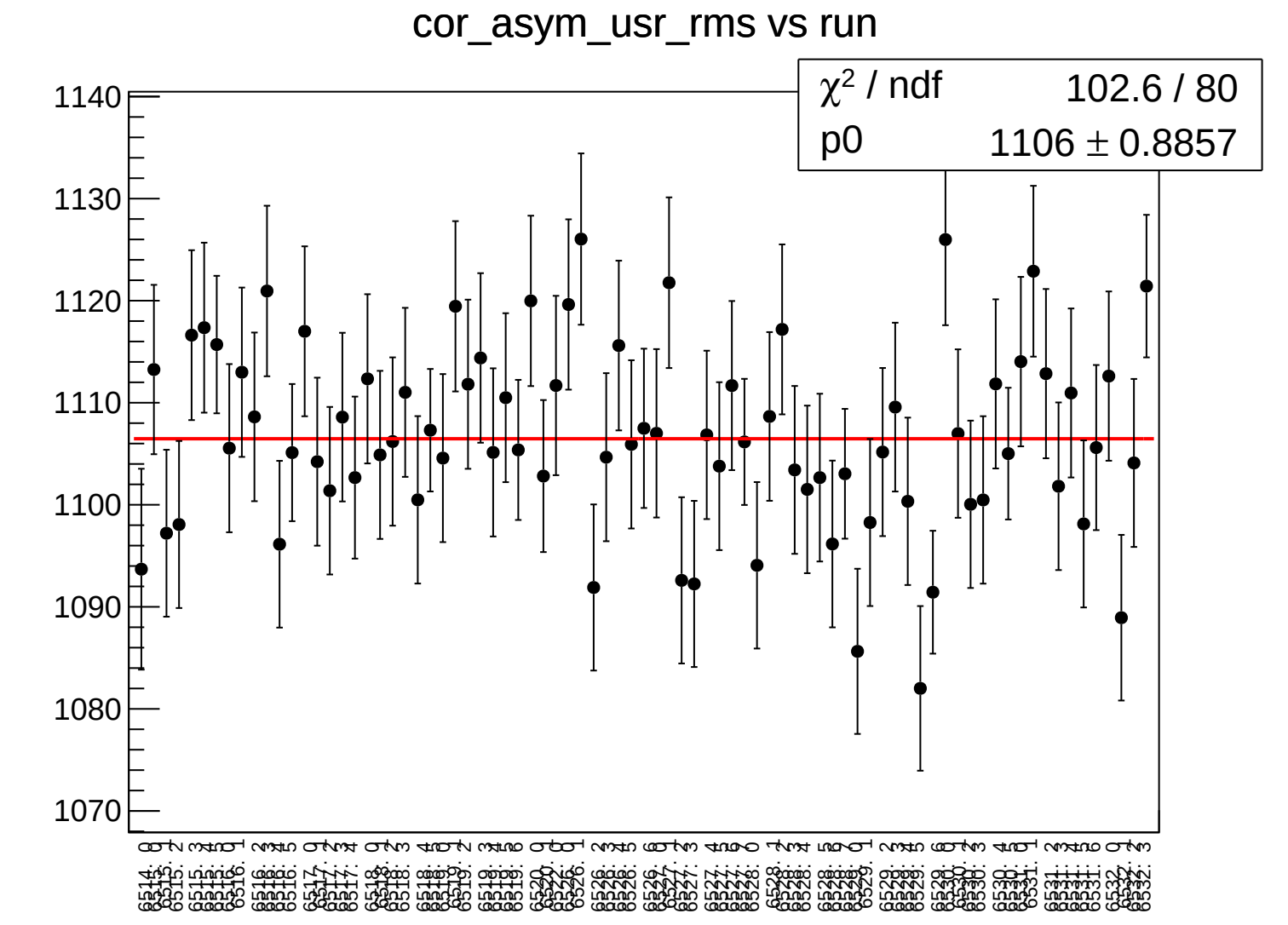

asym_usr_reg_correction_mean vs run
χ² / ndf 88.76 / 80
p0 1130 ± 1736
pull
Entries 81
Mean 60.33
Std Dev 56.37

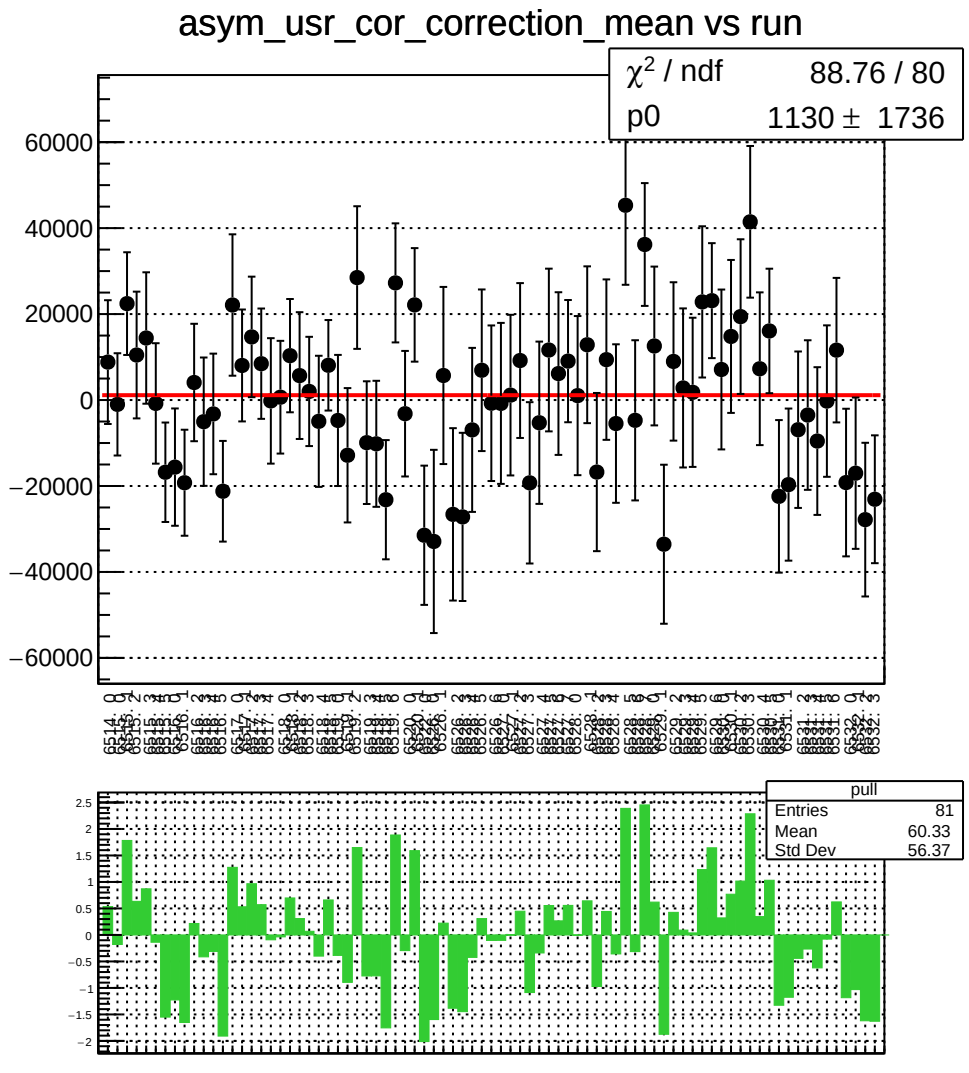

pull1D
Entries 81
Mean −0.01472
Std Dev 1.047

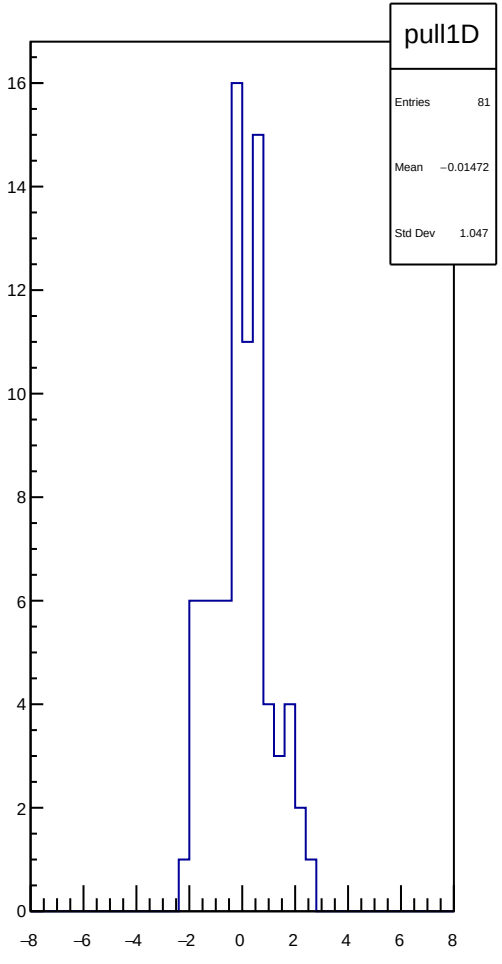

asym_usr_reg_correction_rms vs run
χ² / ndf 3.367e+04 / 80
p0 1517 ± 1.228
2000
1800
1600
1400
1200

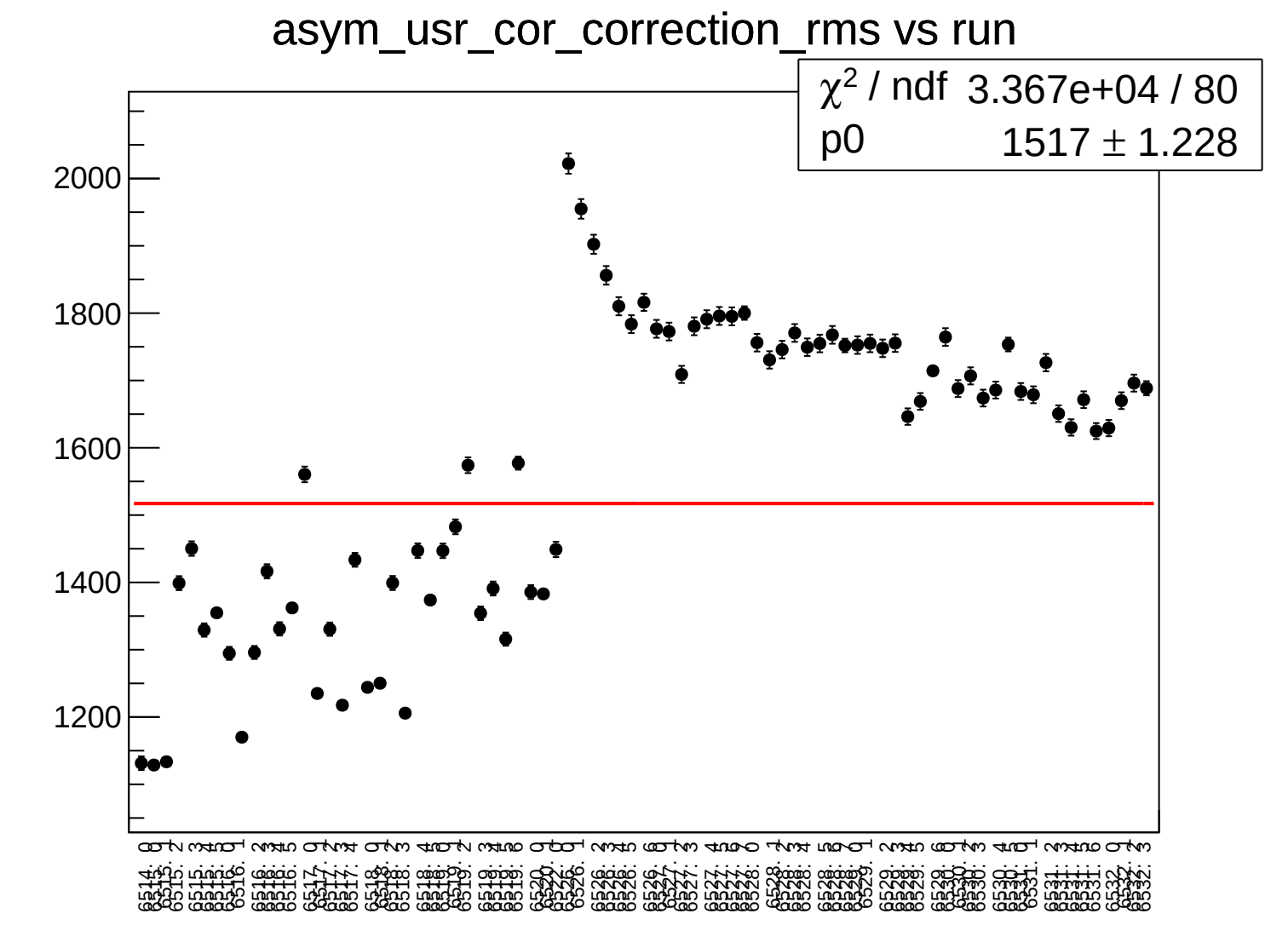

cor_asym_usr_mean vs run
χ² / ndf 79.53 / 80
p0 157.6 ± 1253
40000
20000
0
−20000
−40000
pull
Entries 81
Mean 9.227
Std Dev 0
3
2
1
0
−1
−2
−3

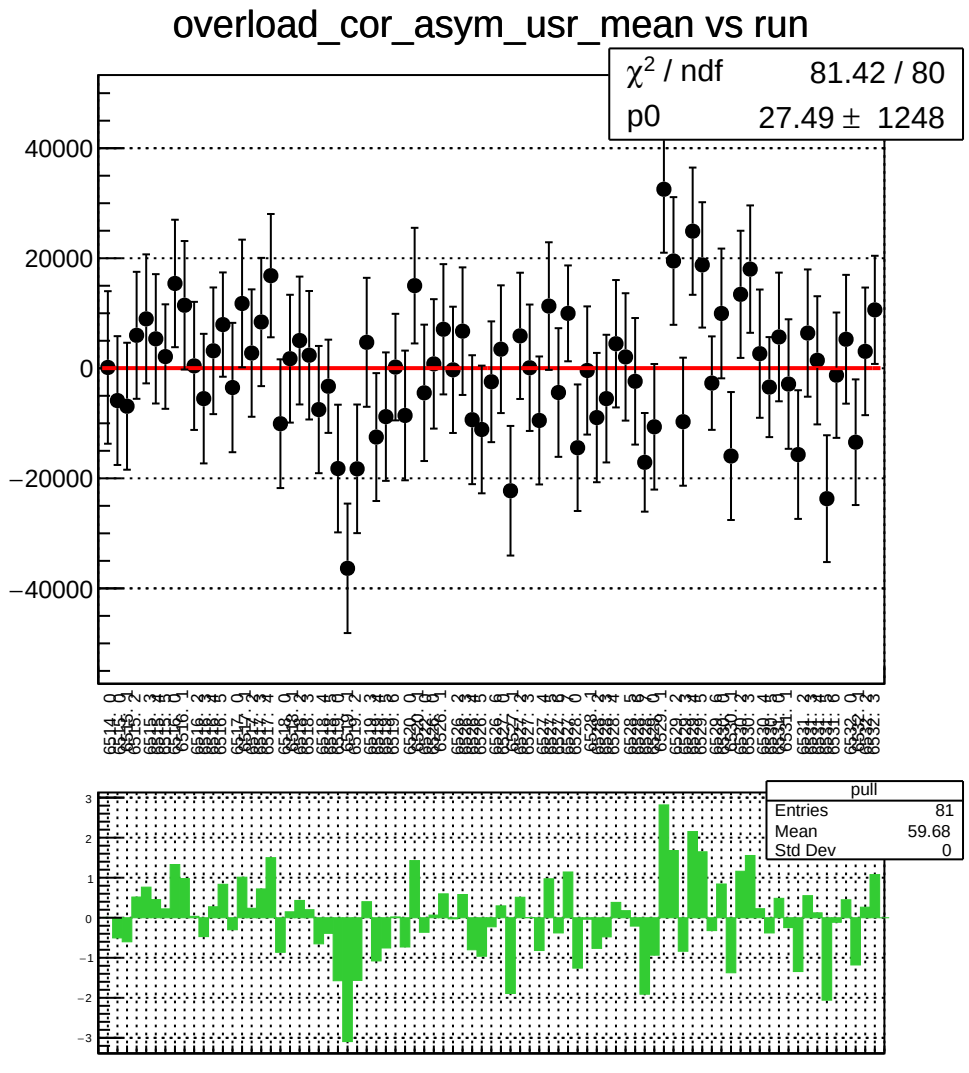

pull1D
Entries 81
Mean −0.002672
Std Dev 0.9909
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

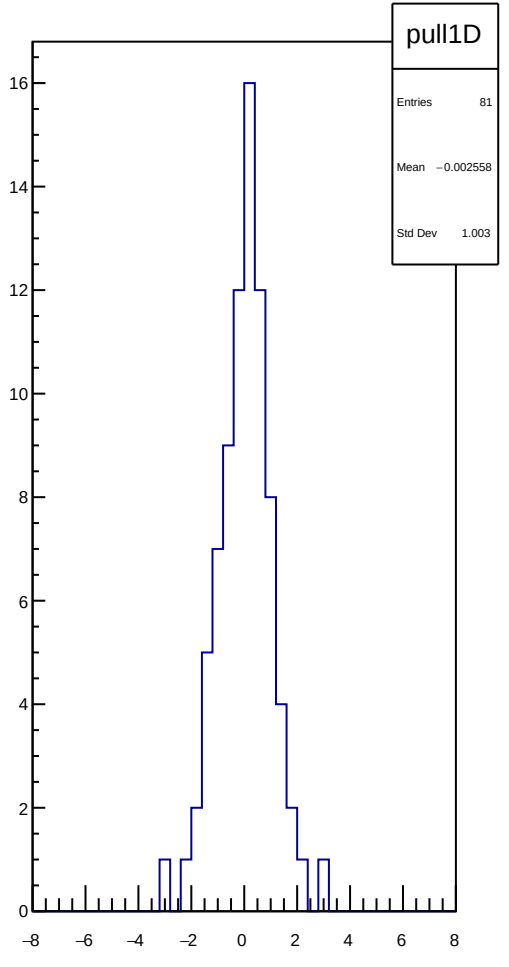

cor_asym_usr_rms vs run
χ² / ndf 102.6 / 80
p0 1106 ± 0.8857
1140
1130
1120
1110
1100
1090
1080
1070

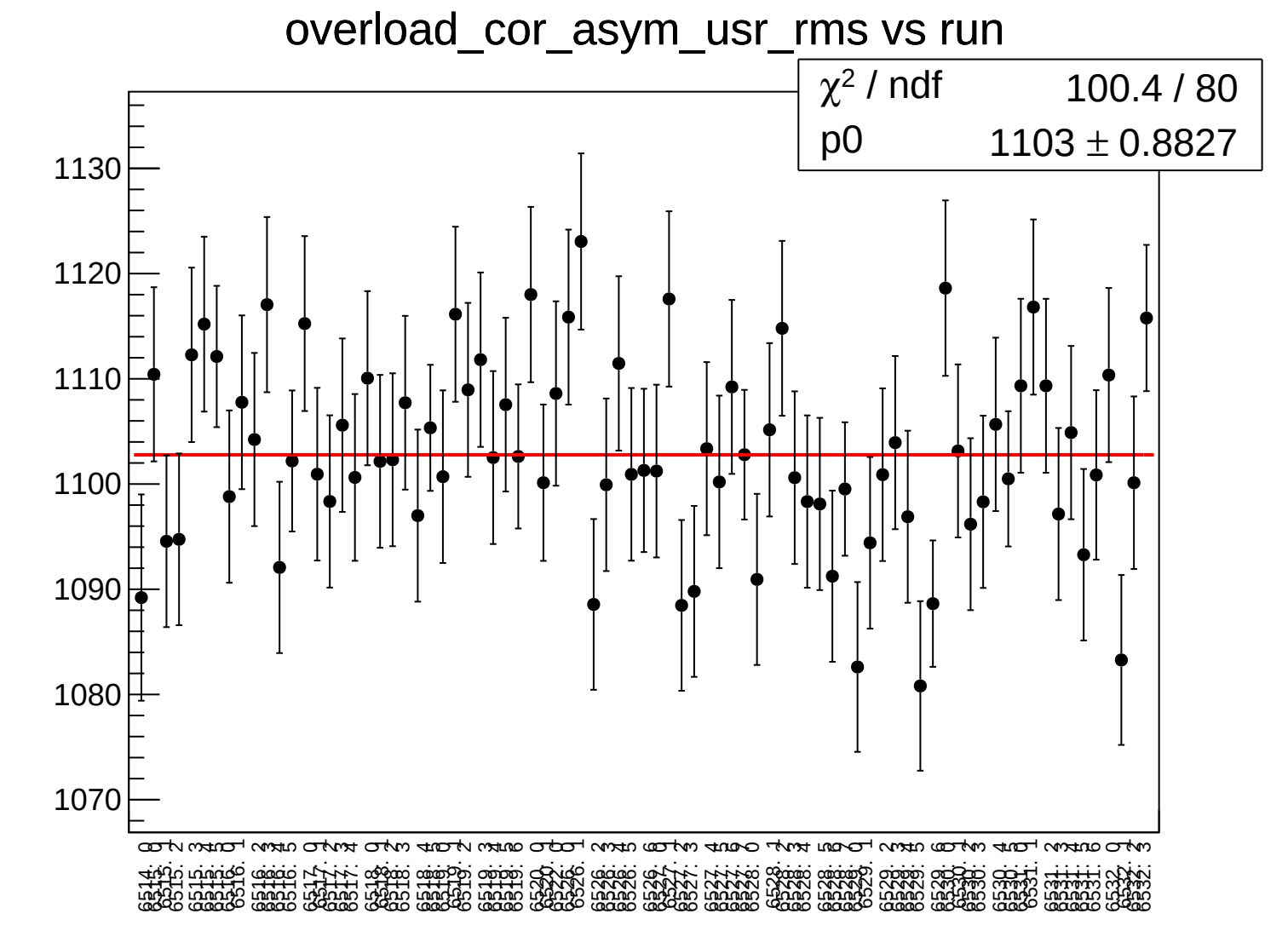

asym_usr_cor_correction_mean vs run
χ² / ndf 88.76 / 80
p0 1130 ± 1736
pull
Entries 81
Mean 60.33
Std Dev 56.37

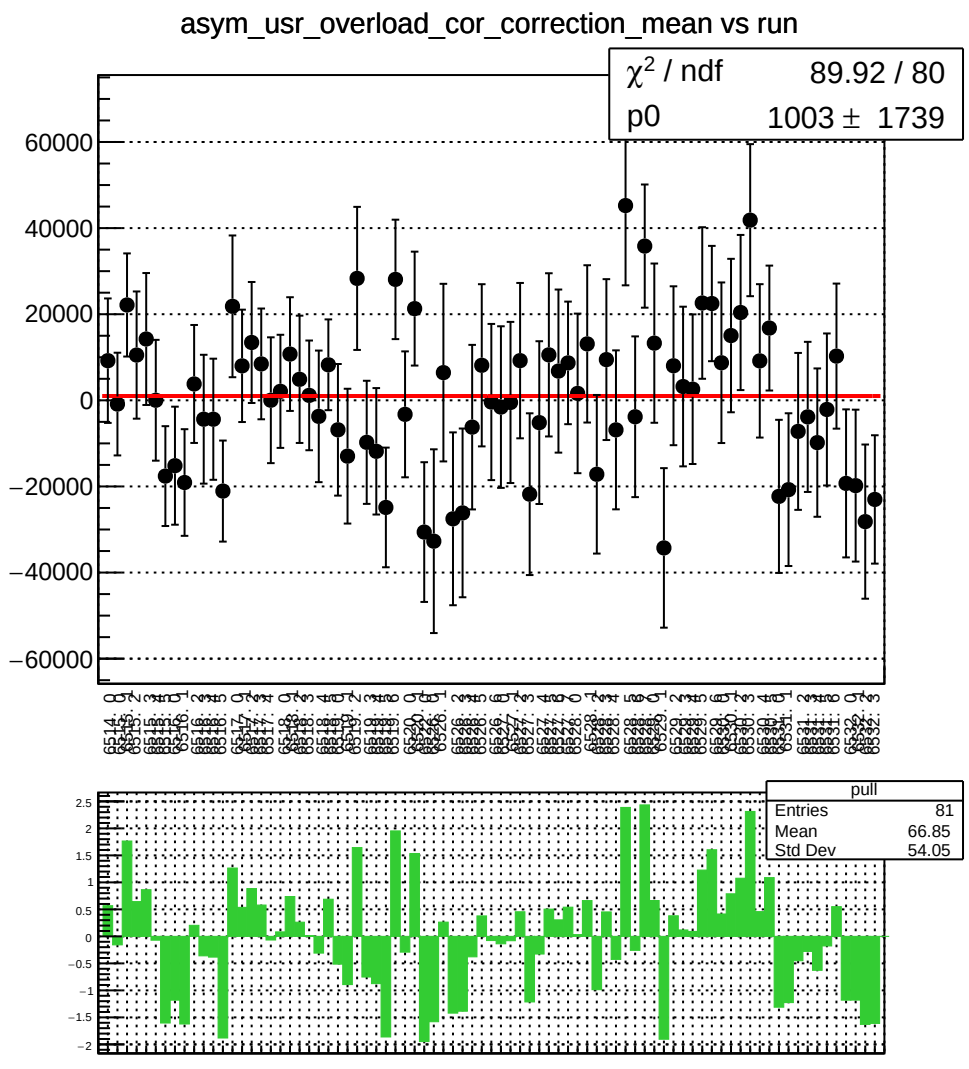

pull1D
Entries 81
Mean −0.01472
Std Dev 1.047

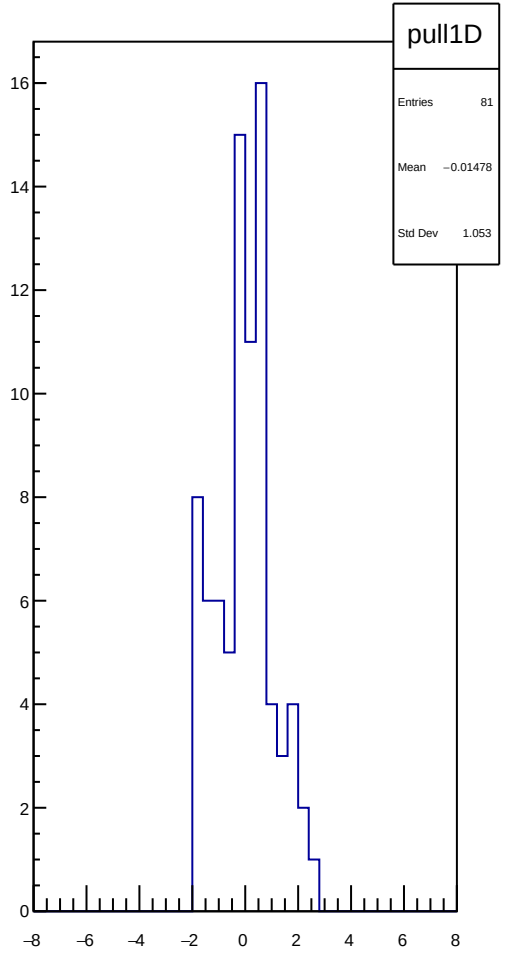

asym_usr_cor_correction_rms vs run
χ² / ndf 3.367e+04 / 80
p0 1517 ± 1.228
2000
1800
1600
1400
1200

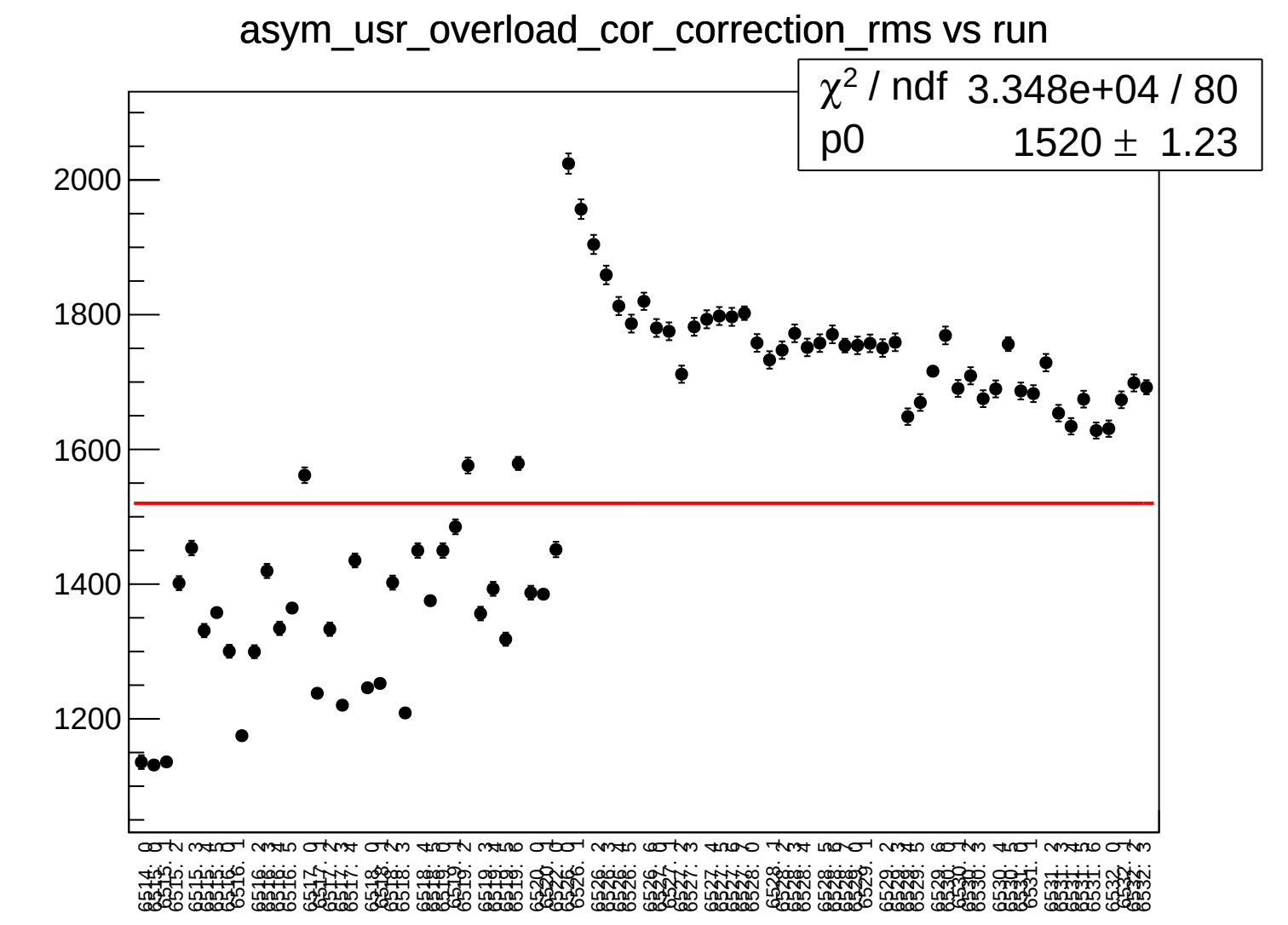

overload_cor_asym_usr_mean vs run
χ² / ndf 81.42 / 80
p0 27.49 ± 1248
40000
20000
0
−20000
−40000
pull
Entries 81
Mean 59.68
Std Dev 0
3
2
1
0
−1
−2
−3

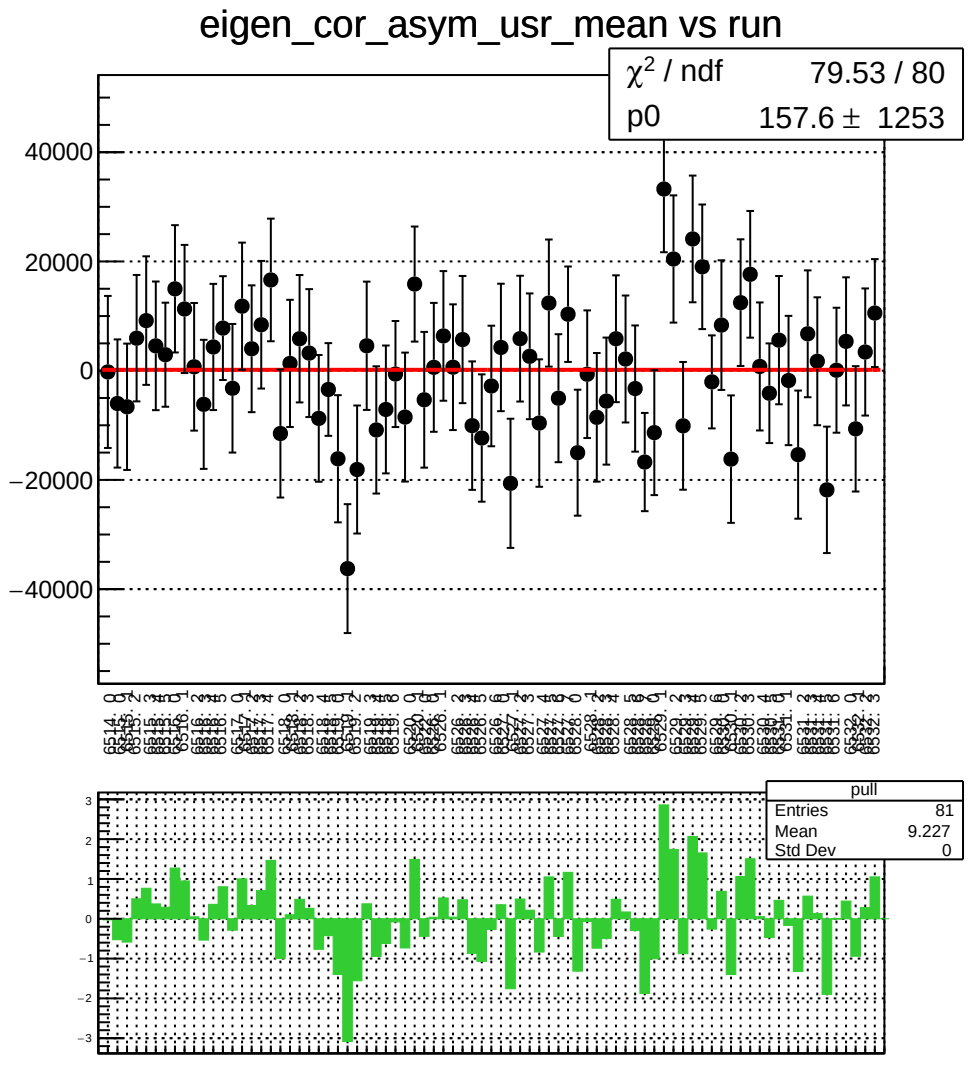

pull1D
Entries 81
Mean −0.002558
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

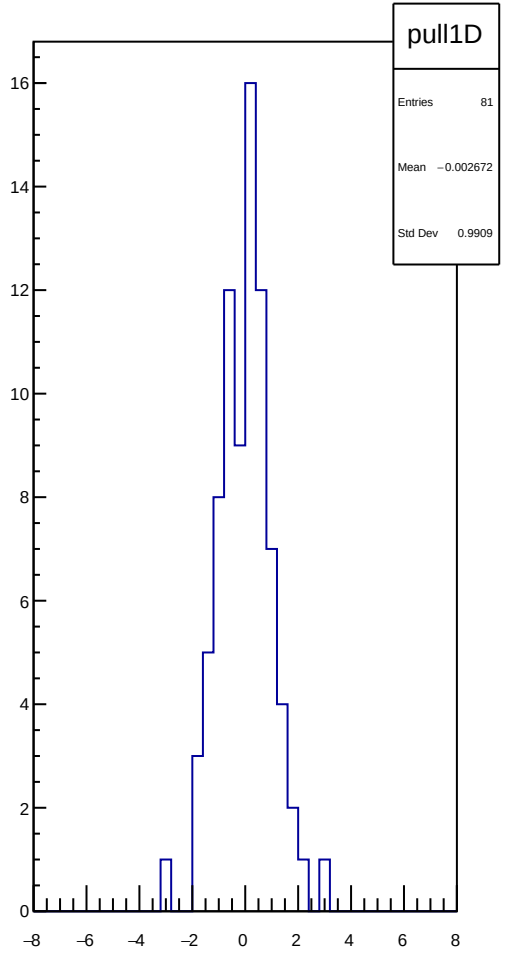

overload_cor_asym_usr_rms vs run
χ² / ndf 100.4 / 80
p0 1103 ± 0.8827
1130
1120
1110
1100
1090
1080
1070

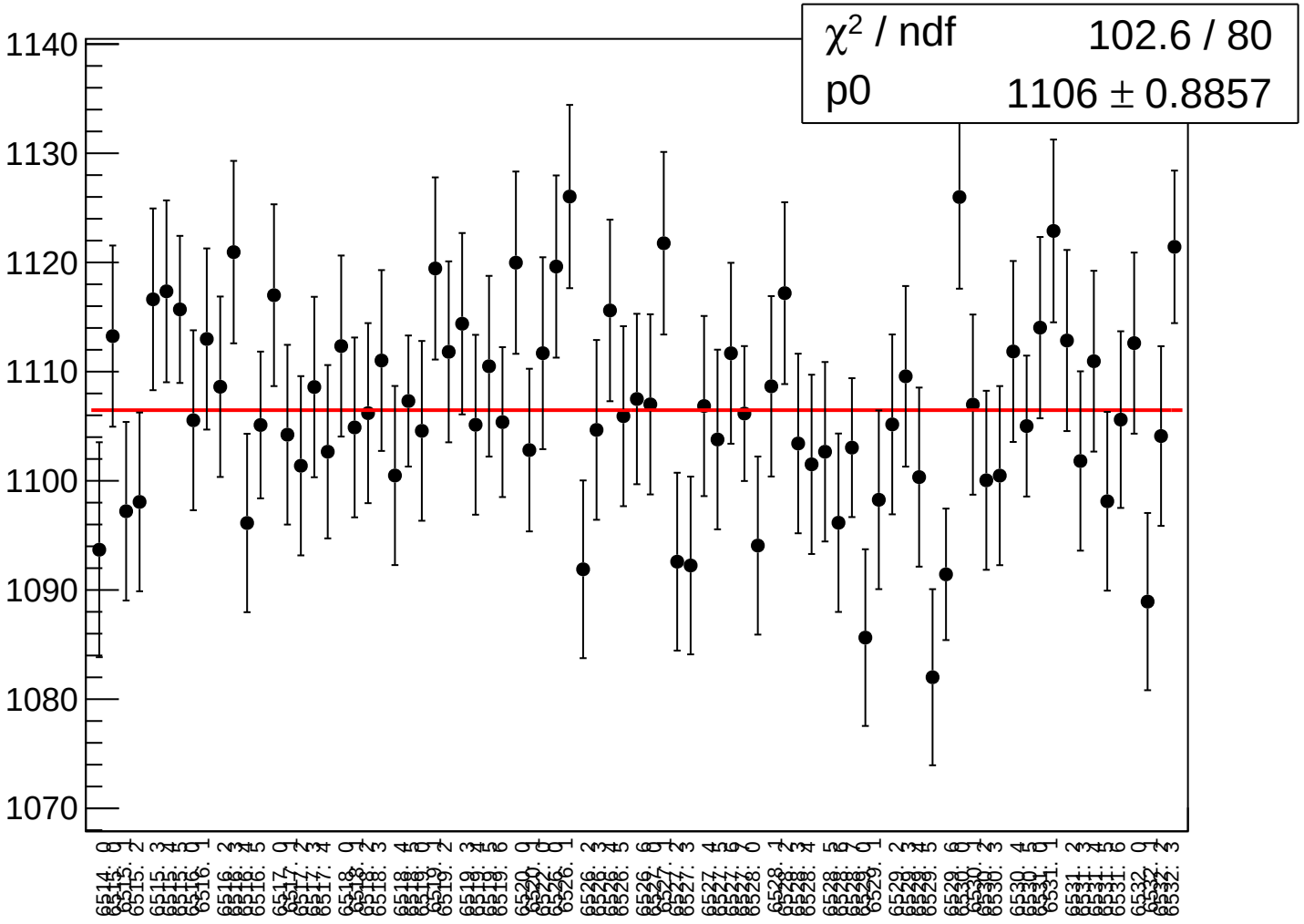

asym_usr_overload_cor_correction_mean vs run
χ² / ndf 89.92 / 80
p0 1003 ± 1739
pull
Entries 81
Mean 66.85
Std Dev 54.05

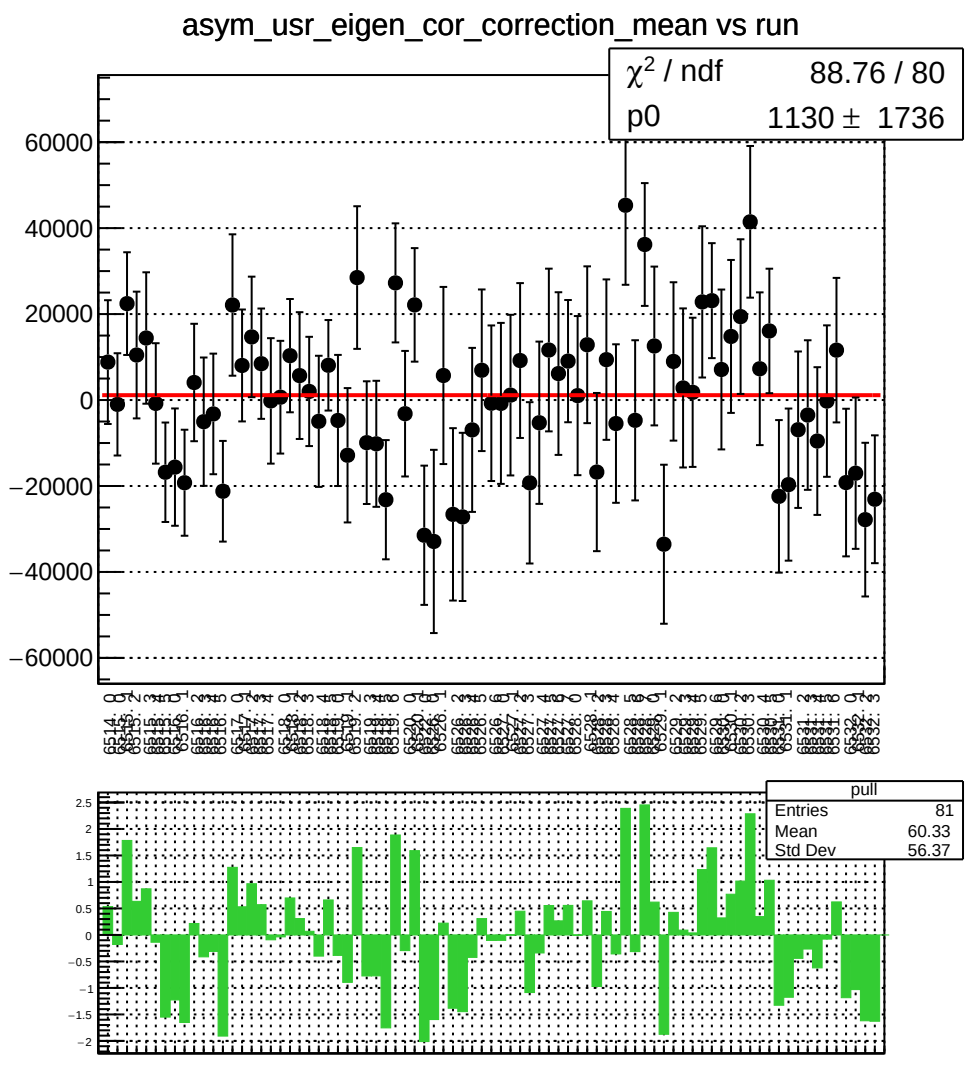

pull1D
Entries 81
Mean −0.01478
Std Dev 1.053

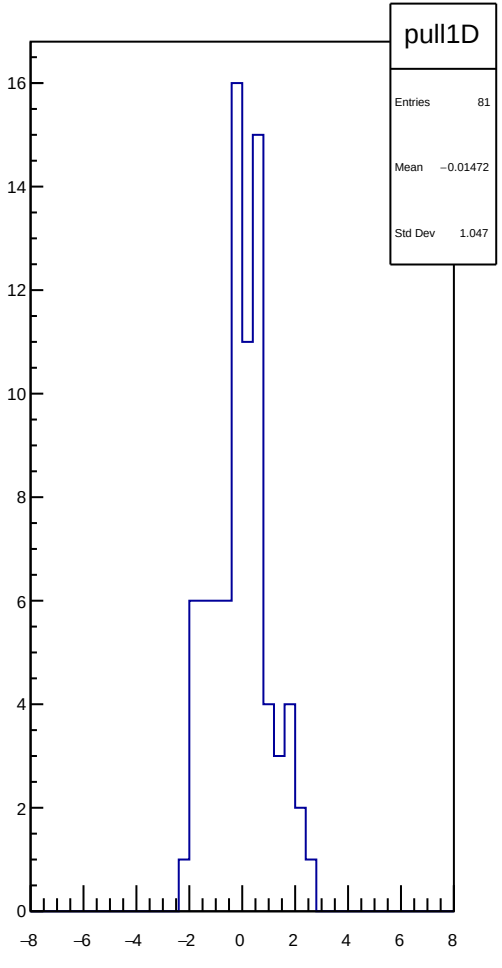

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 3.348e+04 / 80
p0 1520 ± 1.23
2000
1800
1600
1400
1200

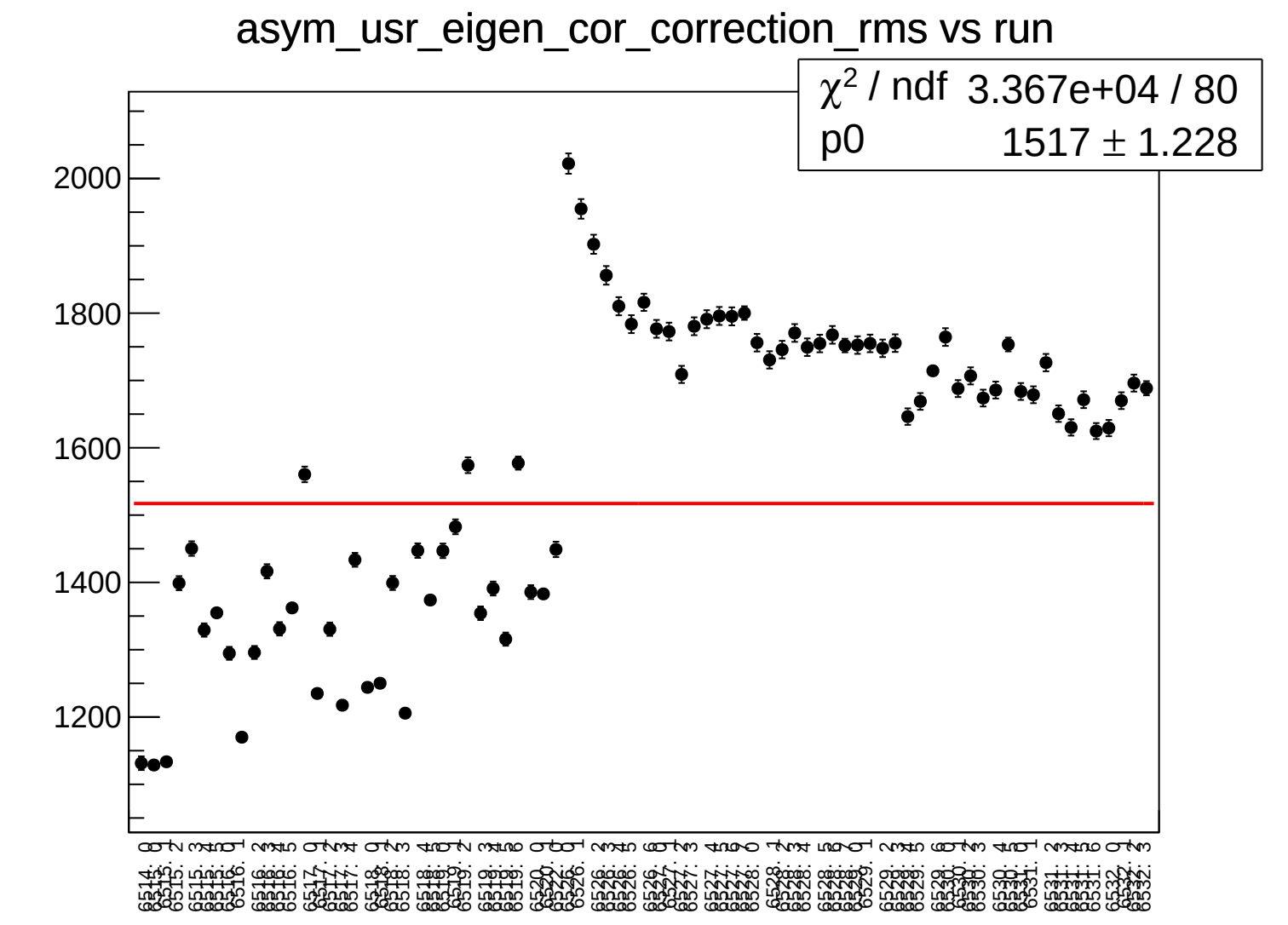

eigen_cor_asym_usr_mean vs run
χ² / ndf 79.53 / 80
p0 157.6 ± 1253
40000
20000
0
−20000
−40000
pull
Entries 81
Mean 9.227
Std Dev 0
3
2
1
0
−1
−2
−3

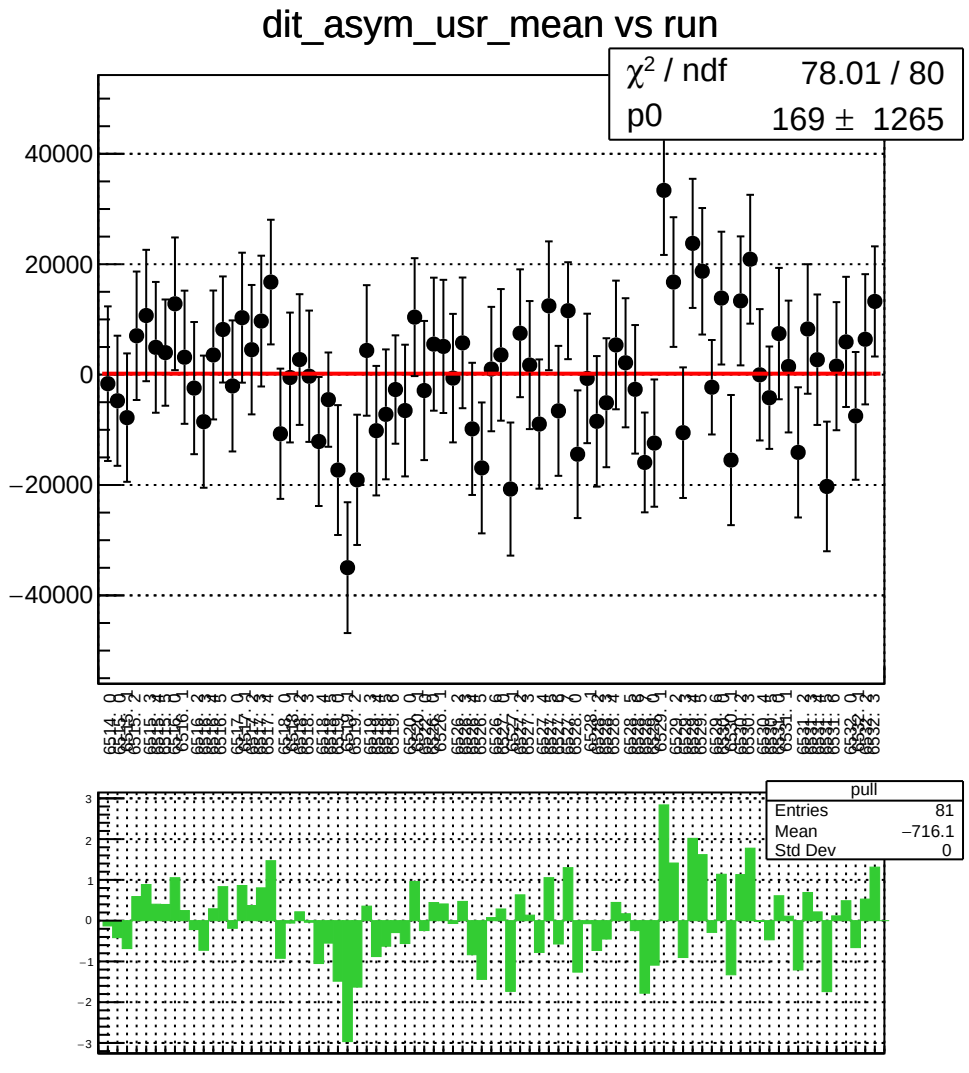

pull1D
Entries 81
Mean −0.002672
Std Dev 0.9909
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

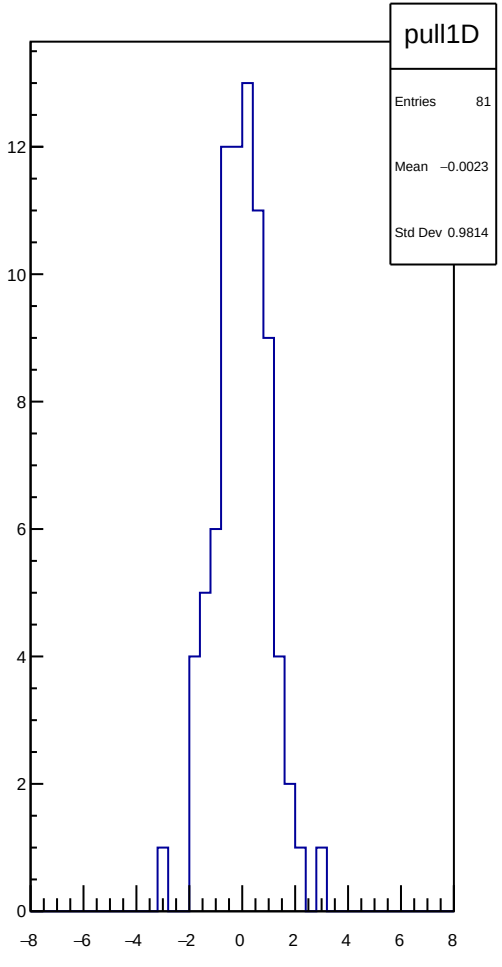

eigen_cor_asym_usr_rms vs run
χ² / ndf 102.6 / 80
p0 1106 ± 0.8857
1140
1130
1120
1110
1100
1090
1080
1070

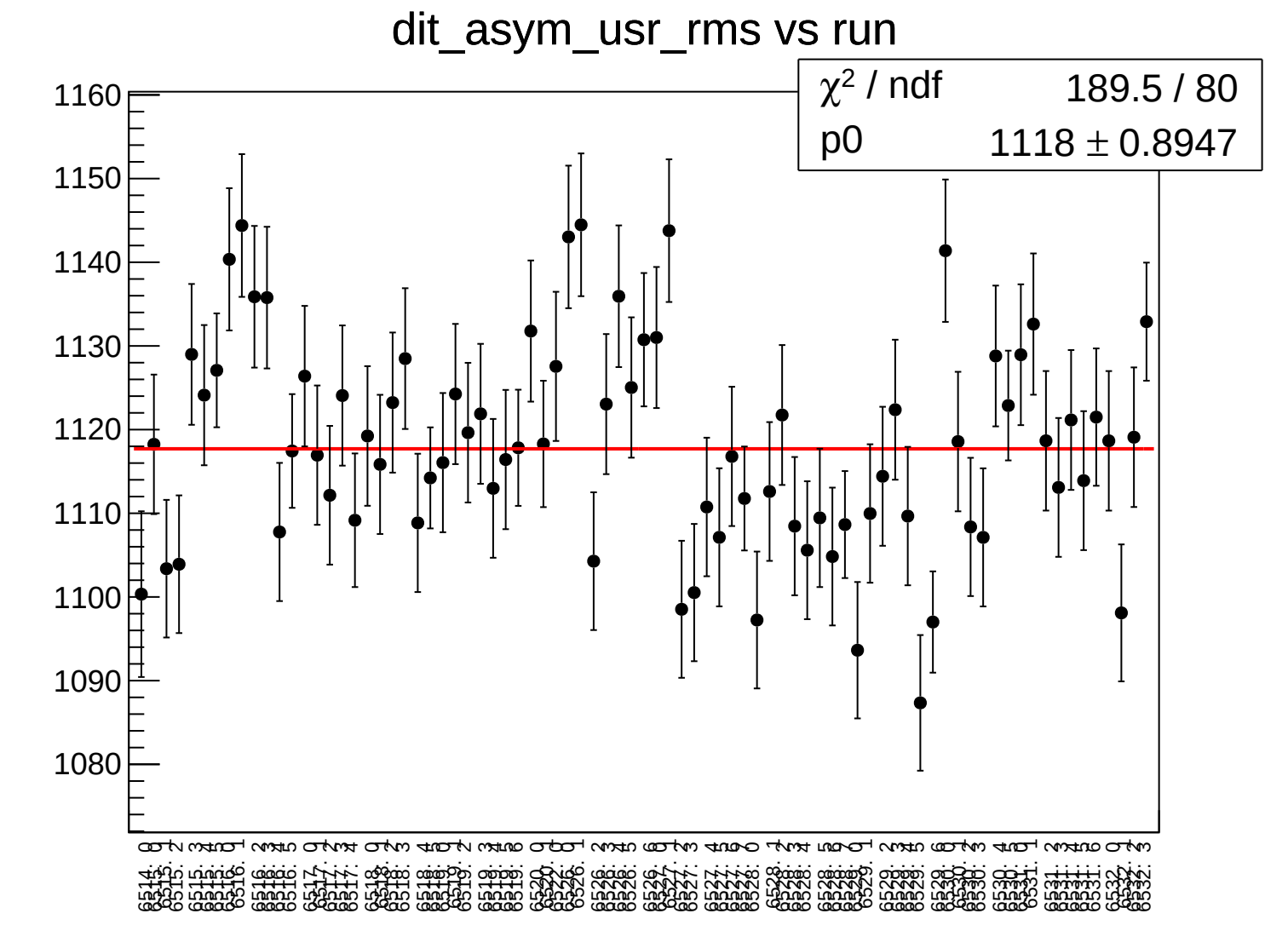

asym_usr_eigen_cor_correction_mean vs run
χ² / ndf 88.76 / 80
p0 1130 ± 1736
pull
Entries 81
Mean 60.33
Std Dev 56.37

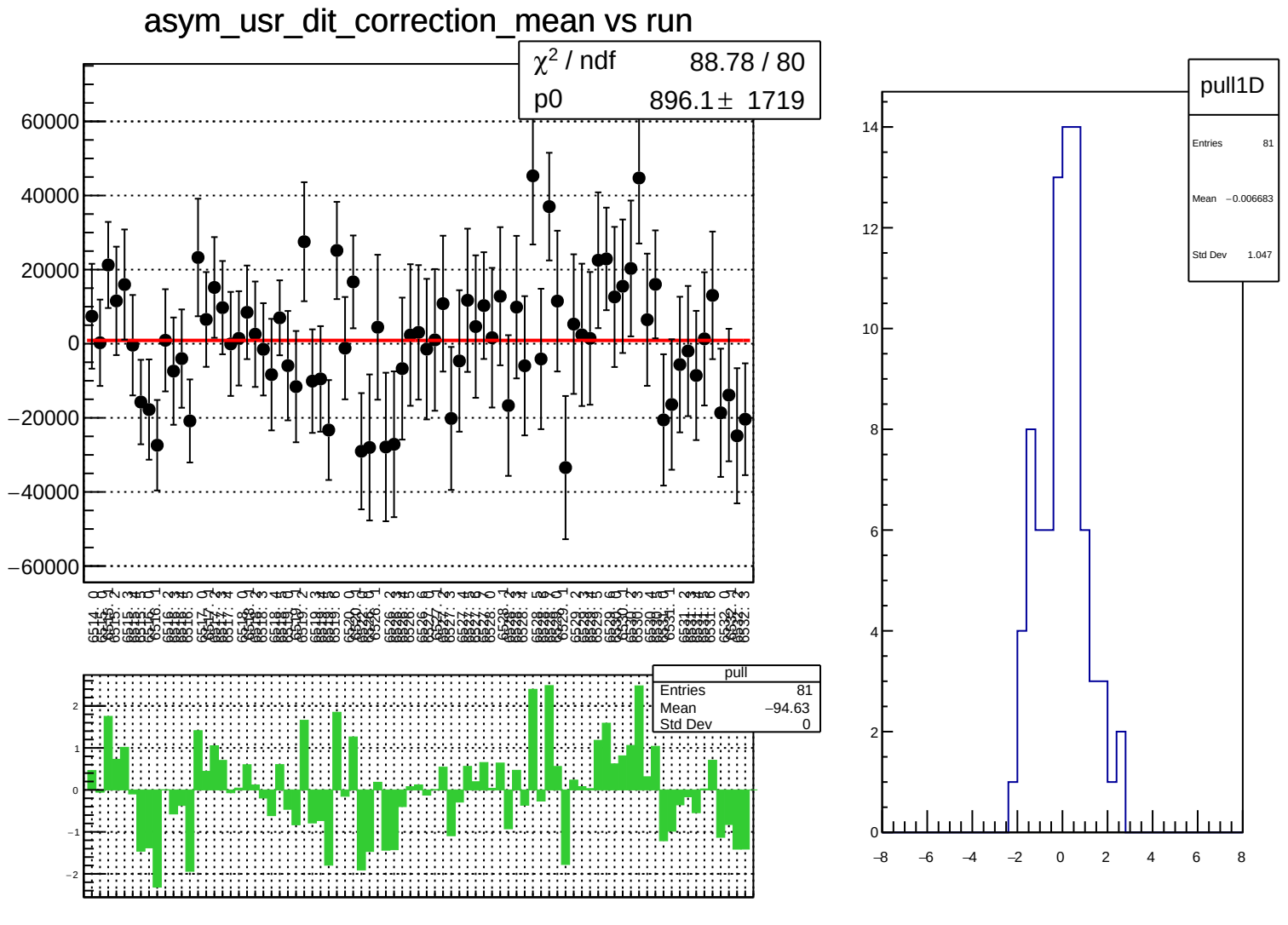

pull1D
Entries 81
Mean −0.01472
Std Dev 1.047

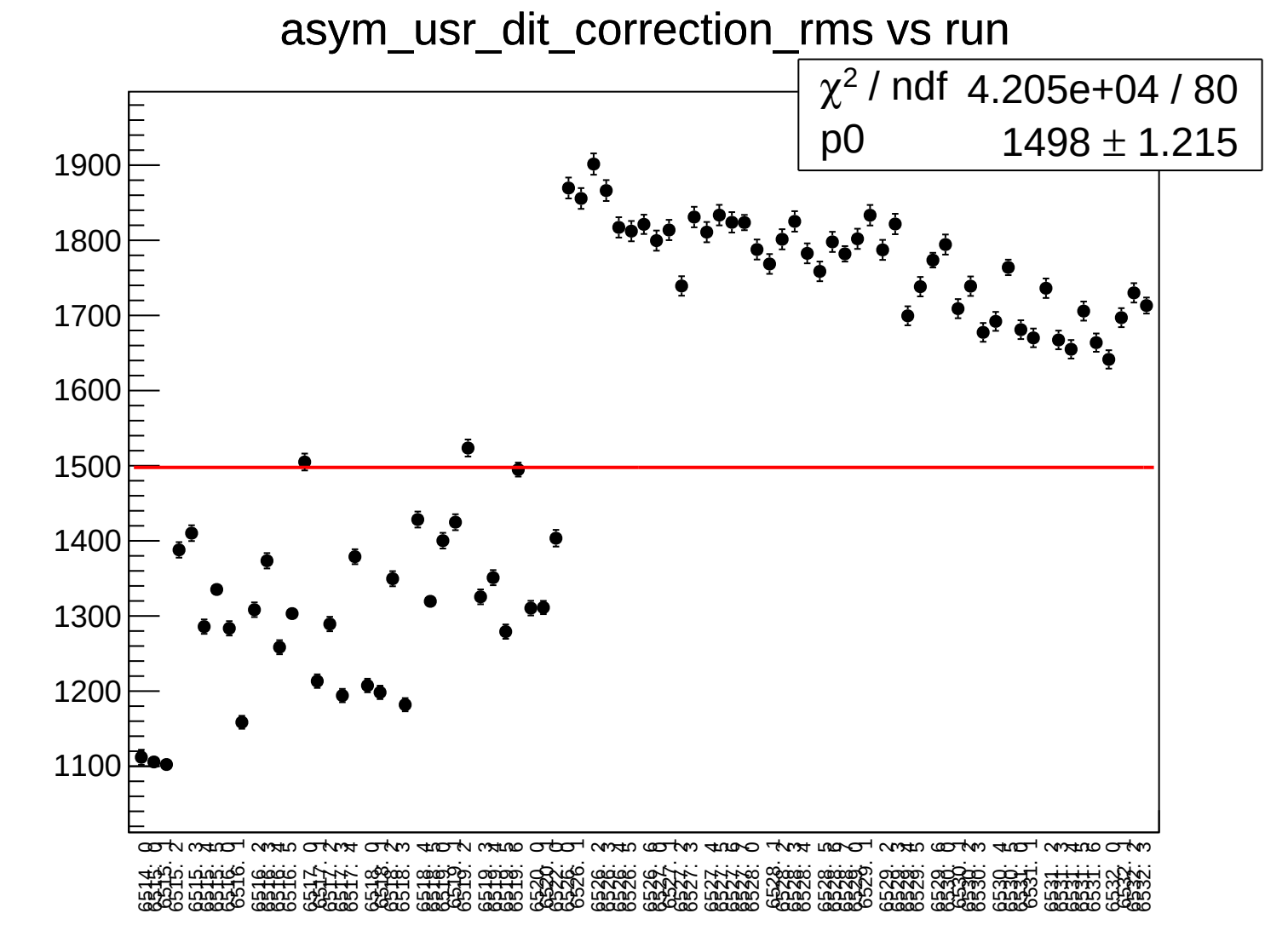

asym_usr_eigen_cor_correction_rms vs run
χ² / ndf 3.367e+04 / 80
p0 1517 ± 1.228
2000
1800
1600
1400
1200

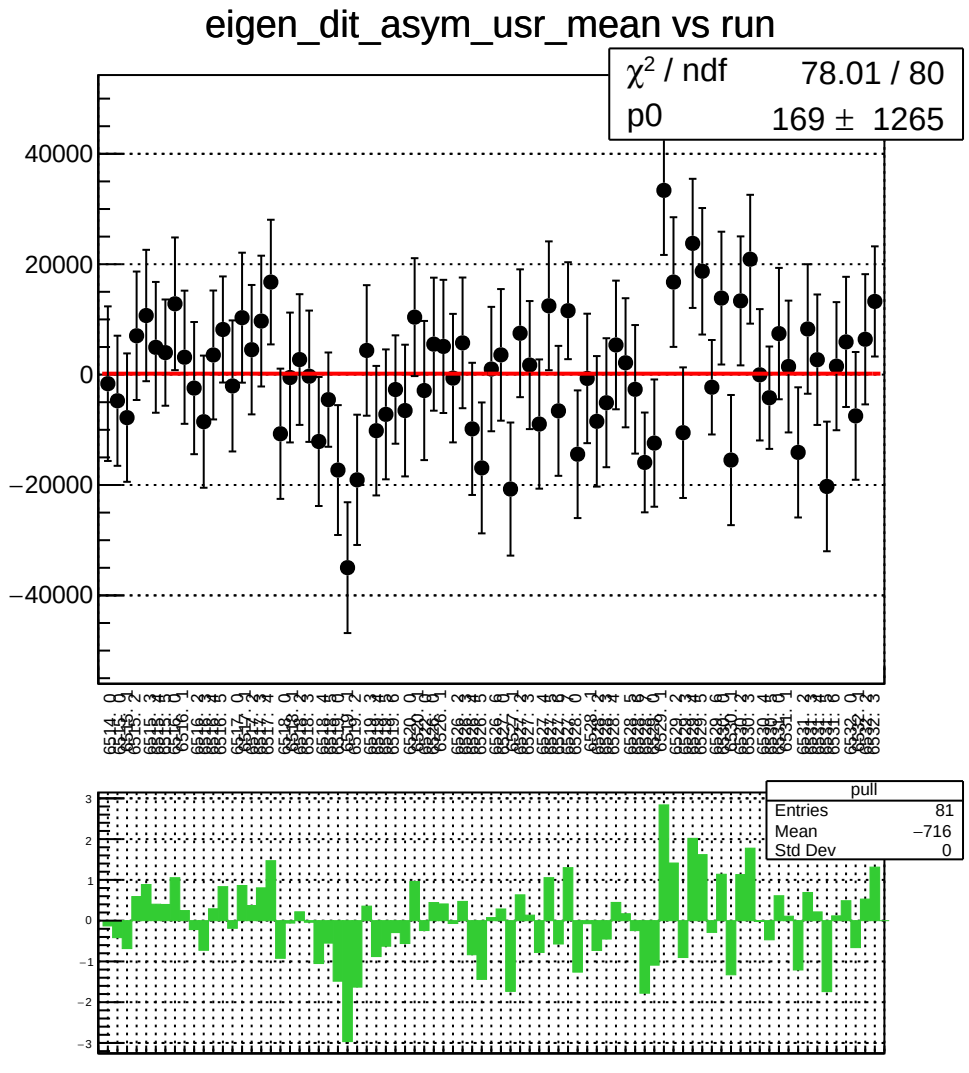

dit_asym_usr_mean vs run
χ² / ndf 78.01 / 80
p0 169 ± 1265
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −716.1
Std Dev 0
3
2
1
0
−1
−2
−3

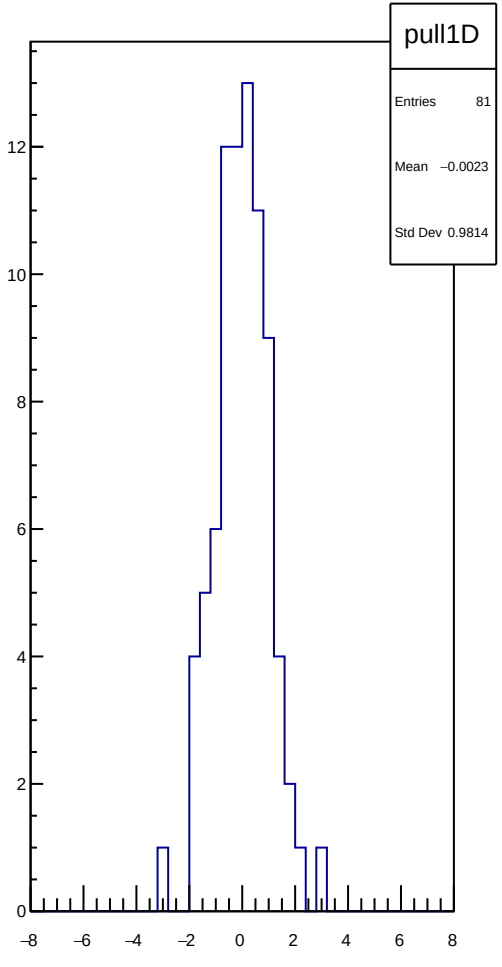

pull1D
Entries 81
Mean −0.0023
Std Dev 0.9814
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

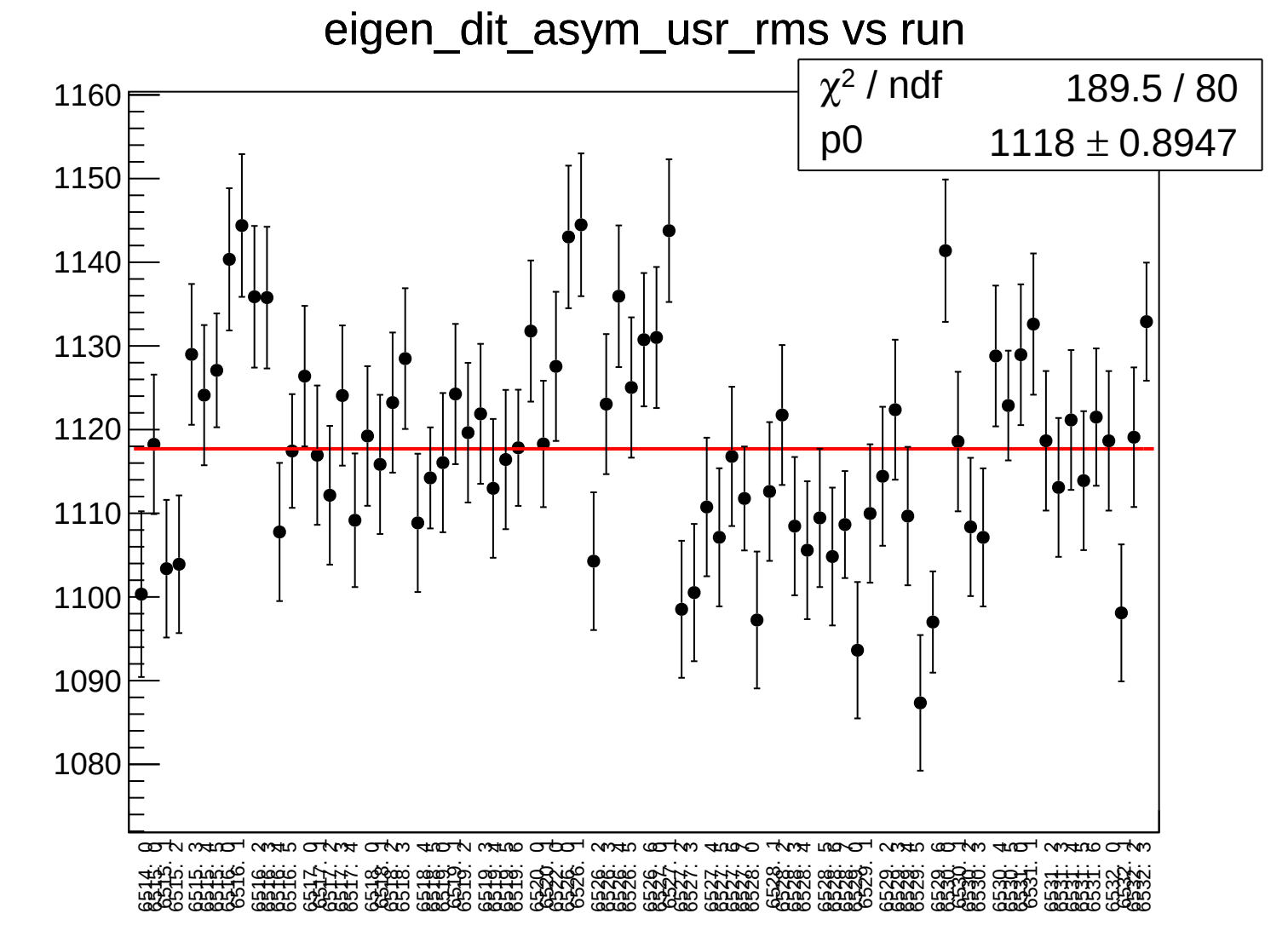

dit_asym_usr_rms vs run
χ² / ndf 189.5 / 80
p0 1118 ± 0.8947
1160
1150
1140
1130
1120
1110
1100
1090
1080

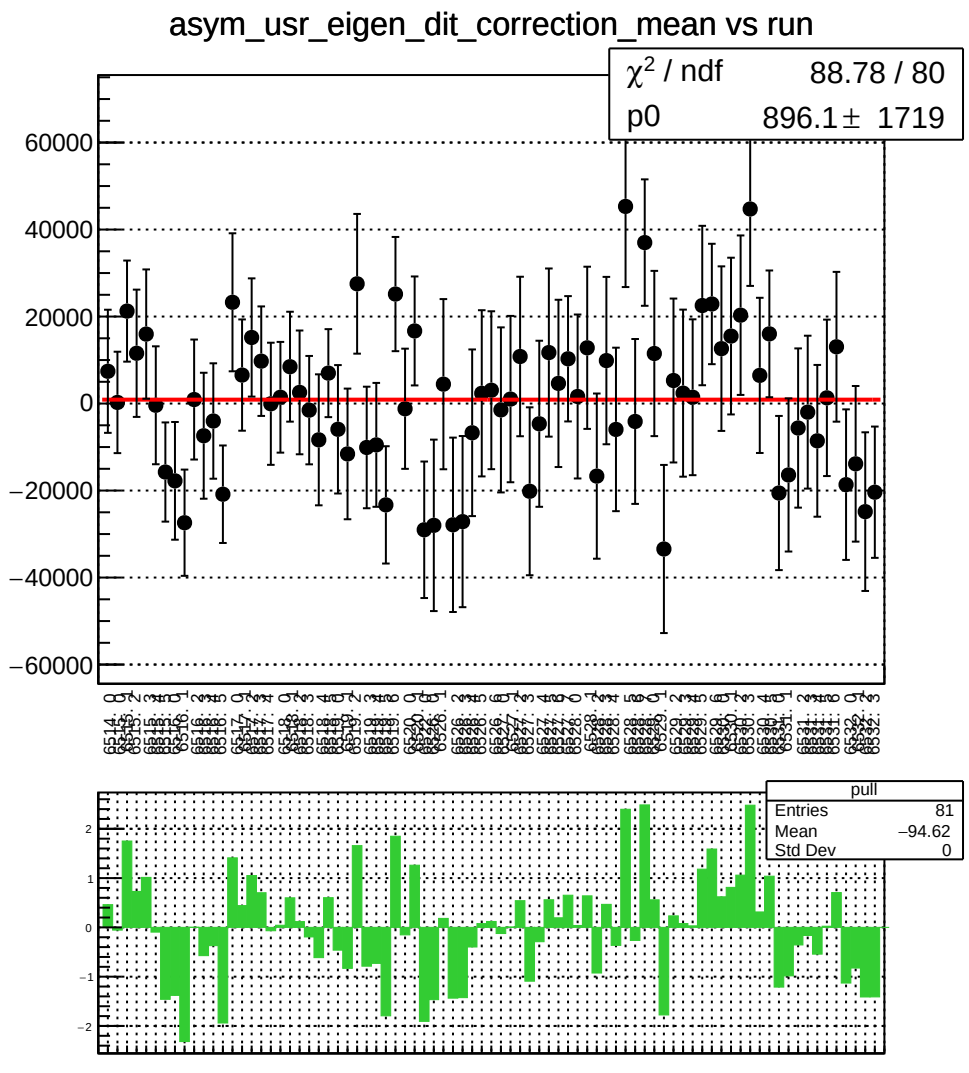

asym_usr_dit_correction_mean vs run
χ² / ndf 88.78 / 80
p0 896.1 ± 1719
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −94.63
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 81
Mean −0.006683
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

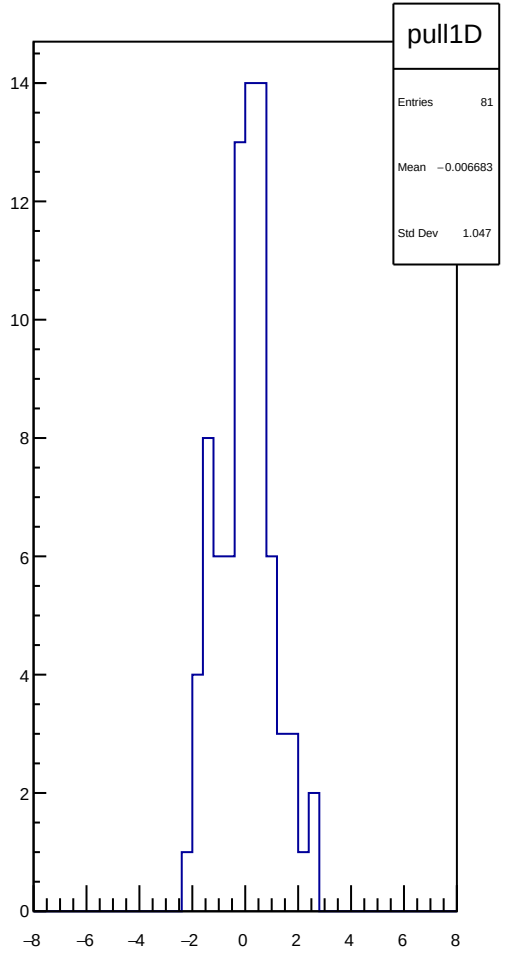

asym_usr_dit_correction_rms vs run
χ² / ndf 4.205e+04 / 80
p0 1498 ± 1.215
1900
1800
1700
1600
1500
1400
1300
1200
1100

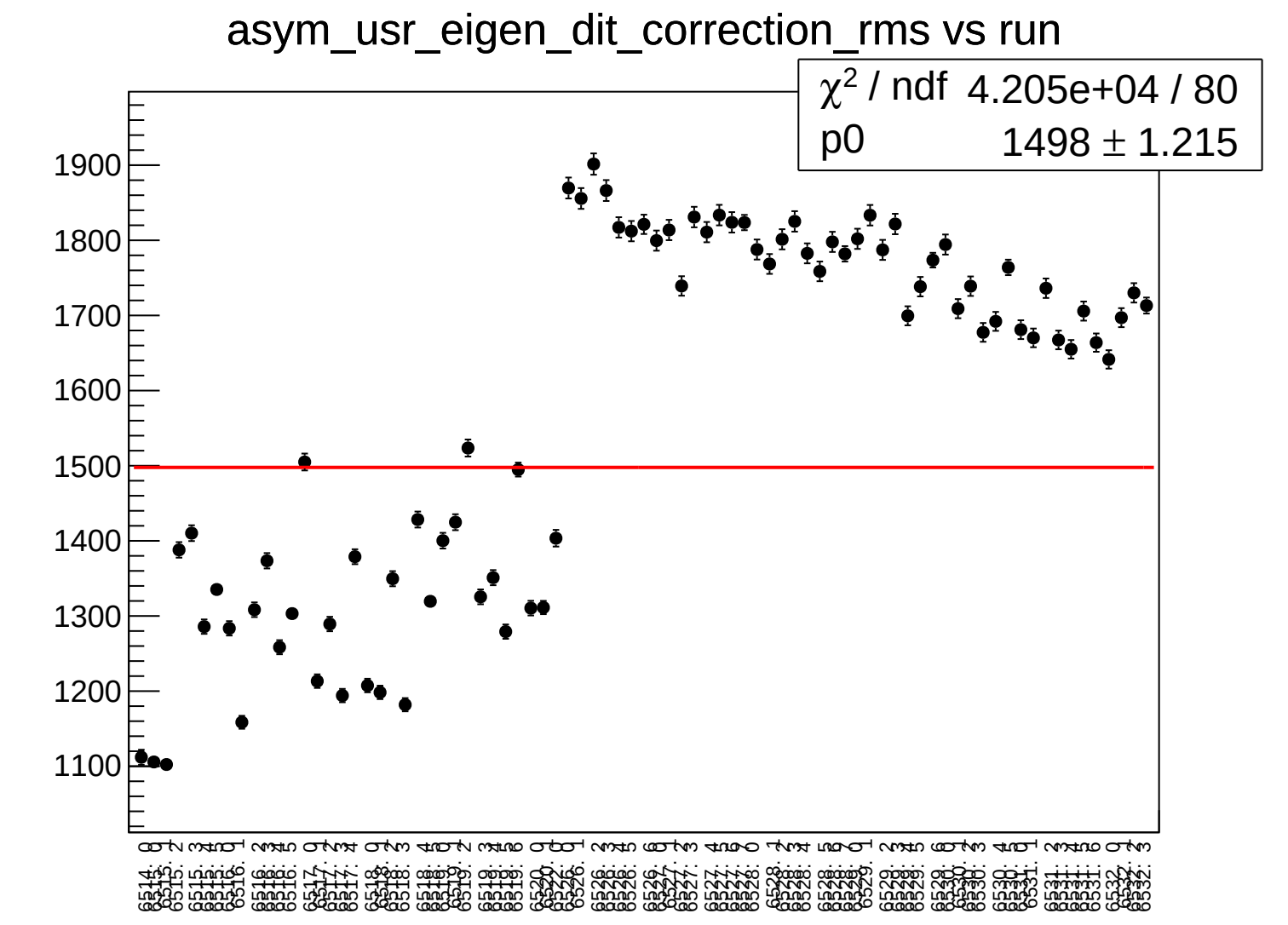

eigen_dit_asym_usr_mean vs run
χ² / ndf 78.01 / 80
p0 169 ± 1265
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −716
Std Dev 0
3
2
1
0
−1
−2
−3

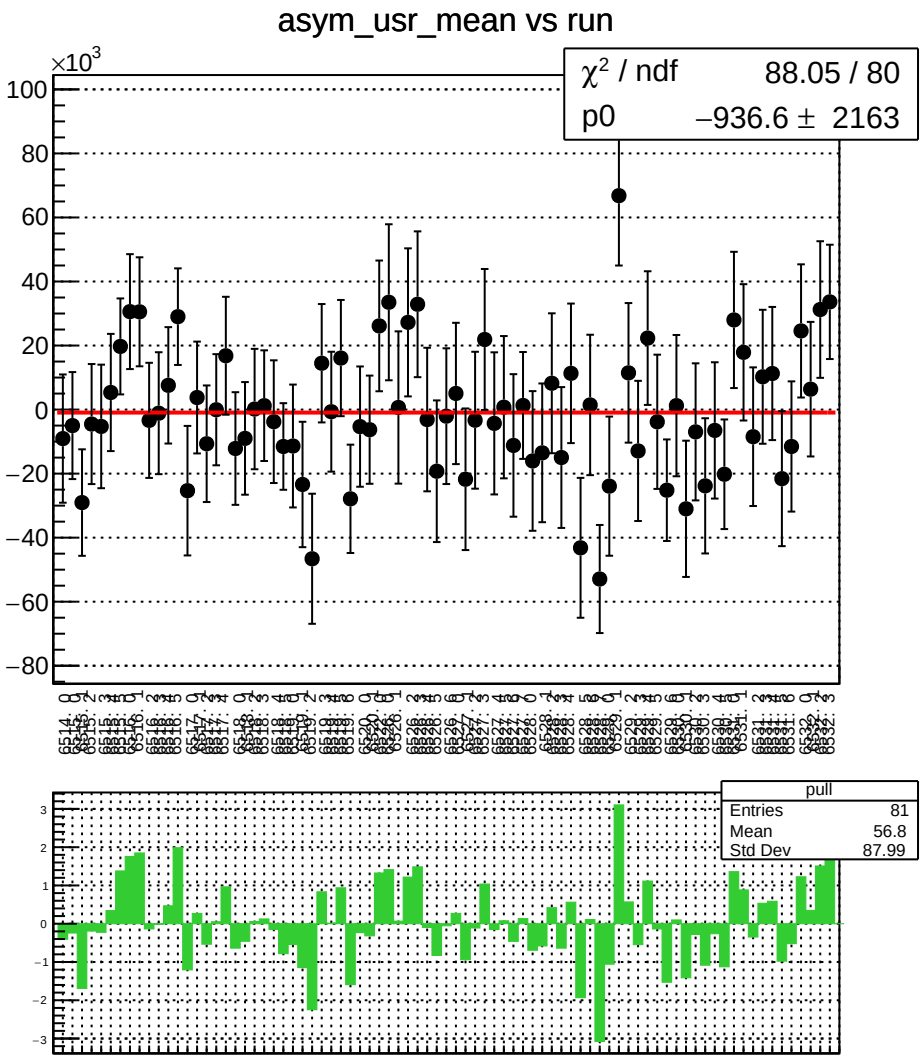

pull1D
Entries 81
Mean −0.0023
Std Dev 0.9814
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

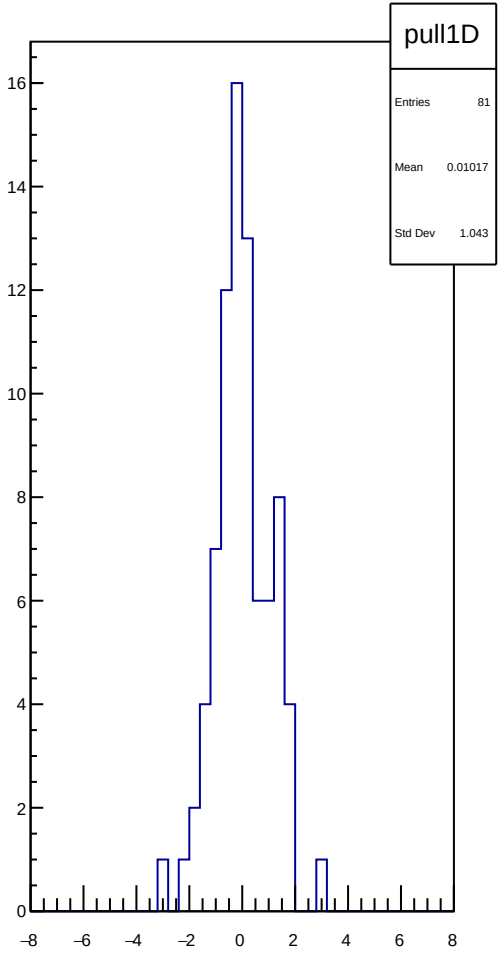

eigen_dit_asym_usr_rms vs run
χ² / ndf 189.5 / 80
p0 1118 ± 0.8947
1160
1150
1140
1130
1120
1110
1100
1090
1080

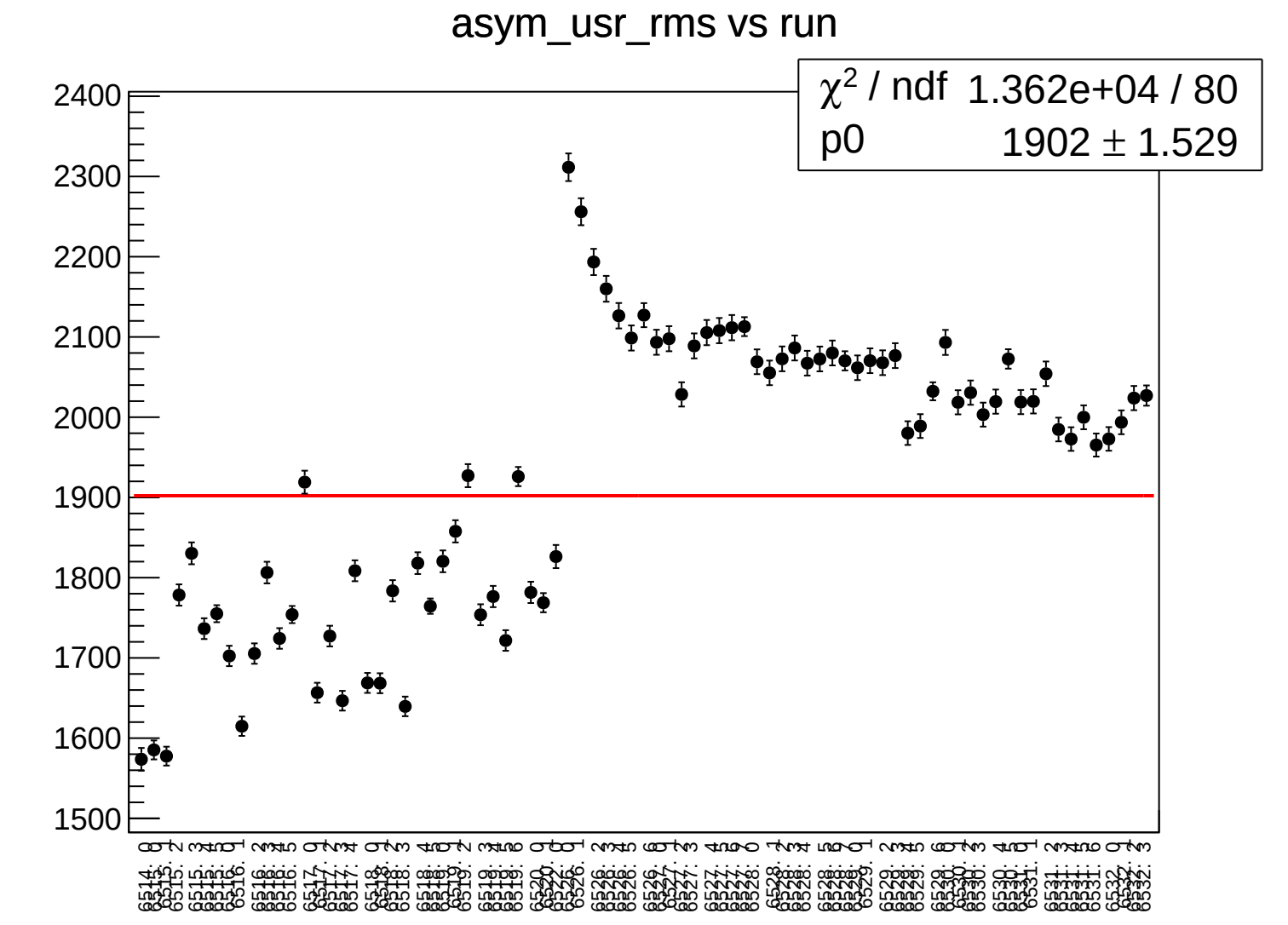

asym_usr_eigen_dit_correction_mean vs run
χ² / ndf 88.78 / 80
p0 896.1 ± 1719
pull
Entries 81
Mean −94.62
Std Dev 0

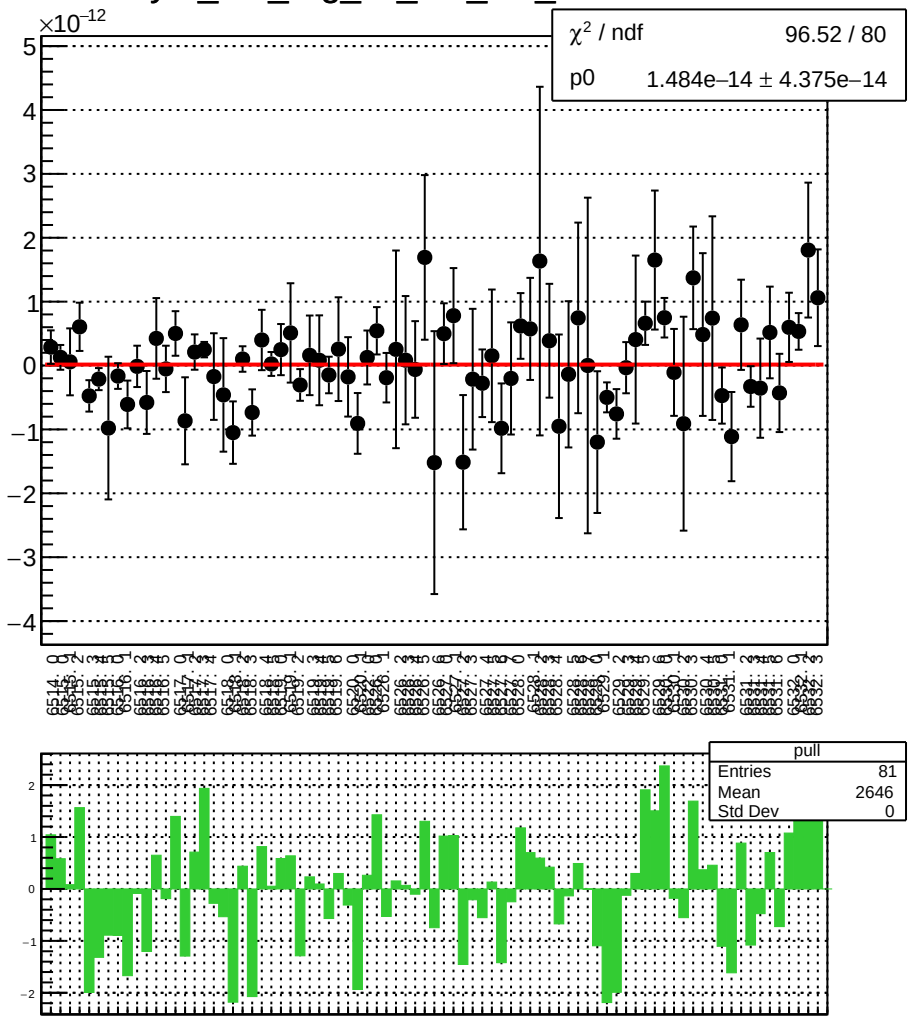

pull1D
Entries 81
Mean −0.006683
Std Dev 1.047

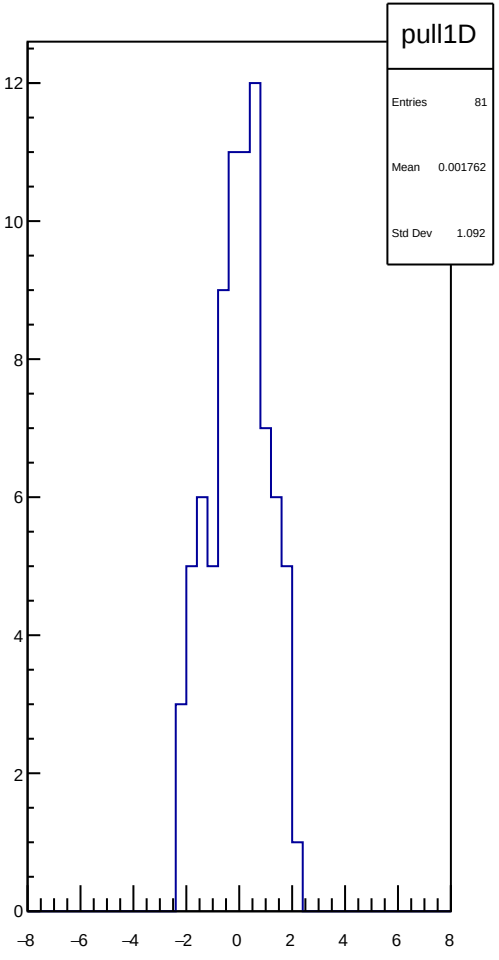

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 4.205e+04 / 80
p0 1498 ± 1.215
1900
1800
1700
1600
1500
1400
1300
1200
1100


asym_usr_mean vs run
×10^3
χ² / ndf 88.05 / 80
p0 −936.6 ± 2163
pull
Entries 81
Mean 56.8
Std Dev 87.99

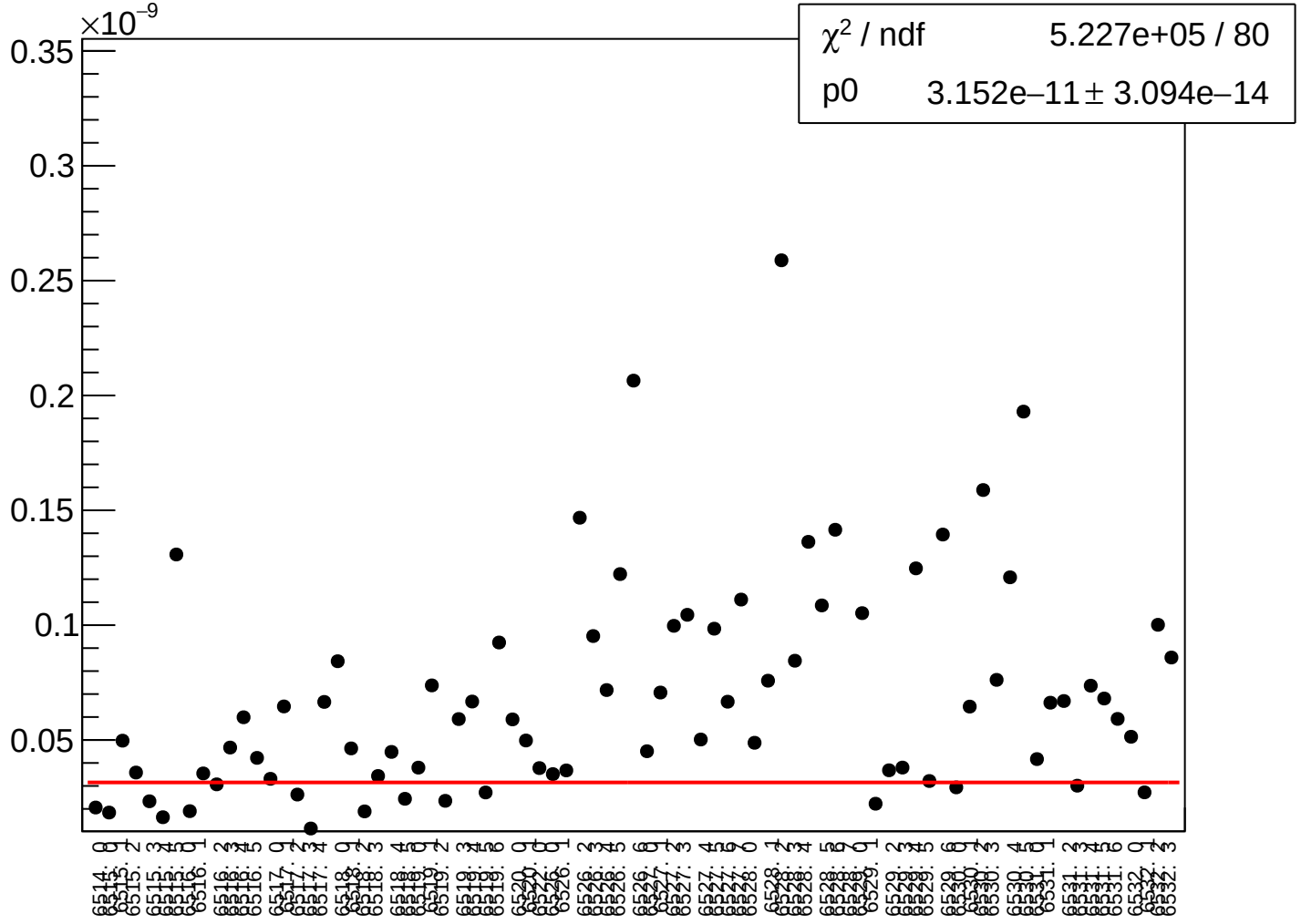

pull1D
Entries 81
Mean 0.01017
Std Dev 1.043

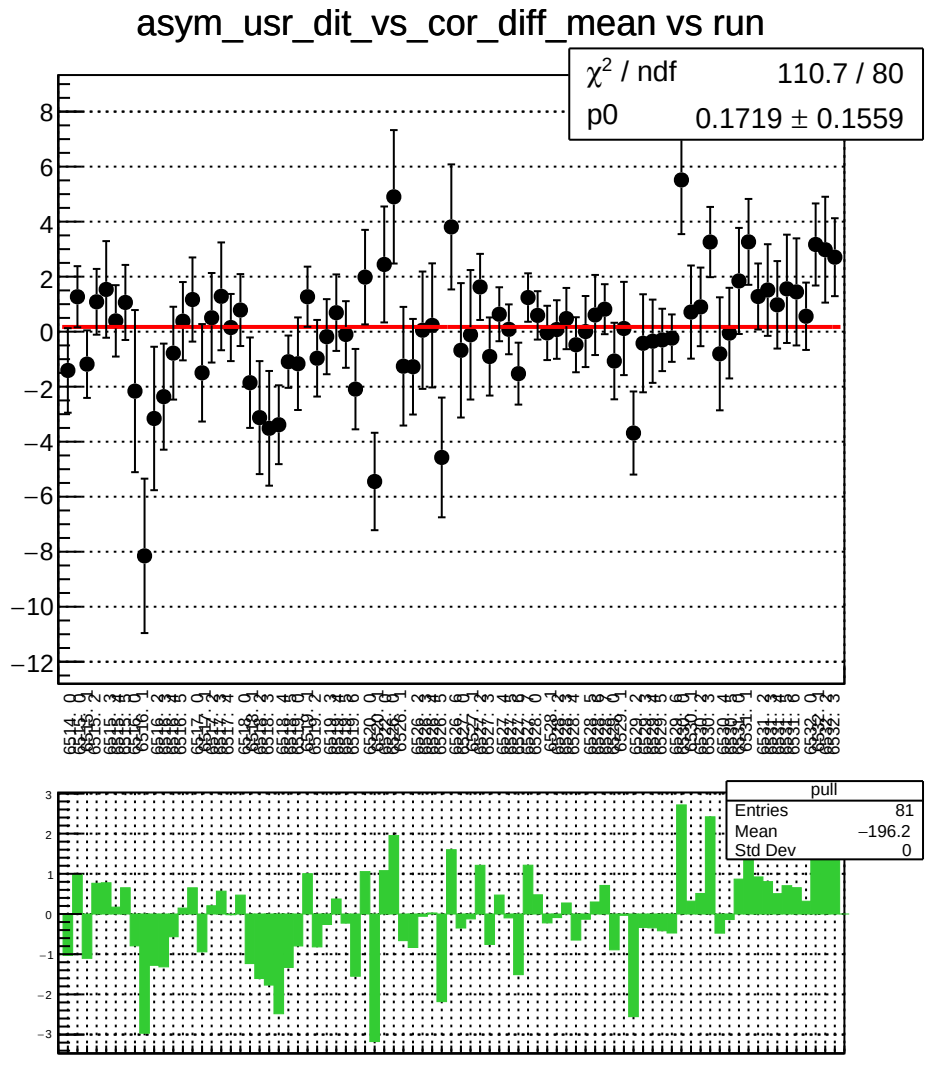

asym_usr_rms vs run
χ² / ndf 1.362e+04 / 80
p0 1902 ± 1.529
2400
2300
2200
2100
2000
1900
1800
1700
1600
1500

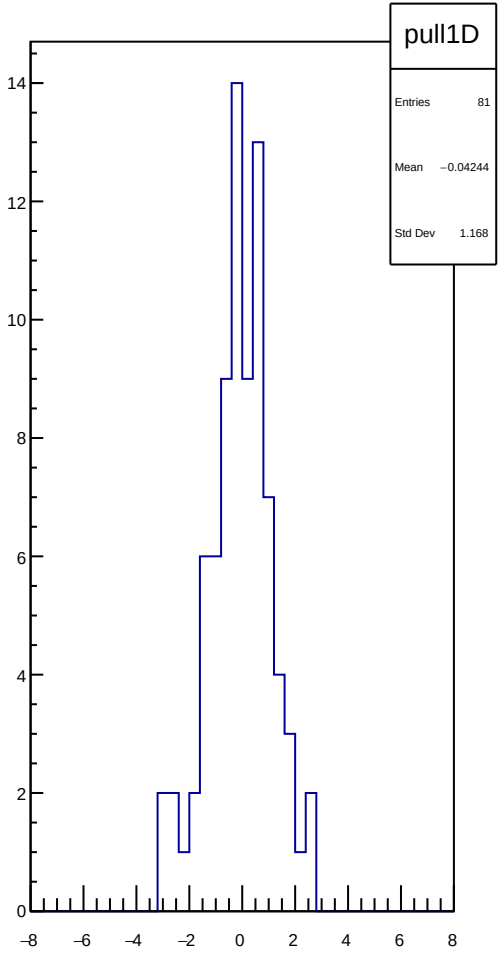

asym_usr_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.52 / 80
p0 1.484e−14 ± 4.375e−14
pull
Entries 81
Mean 2646
Std Dev 0

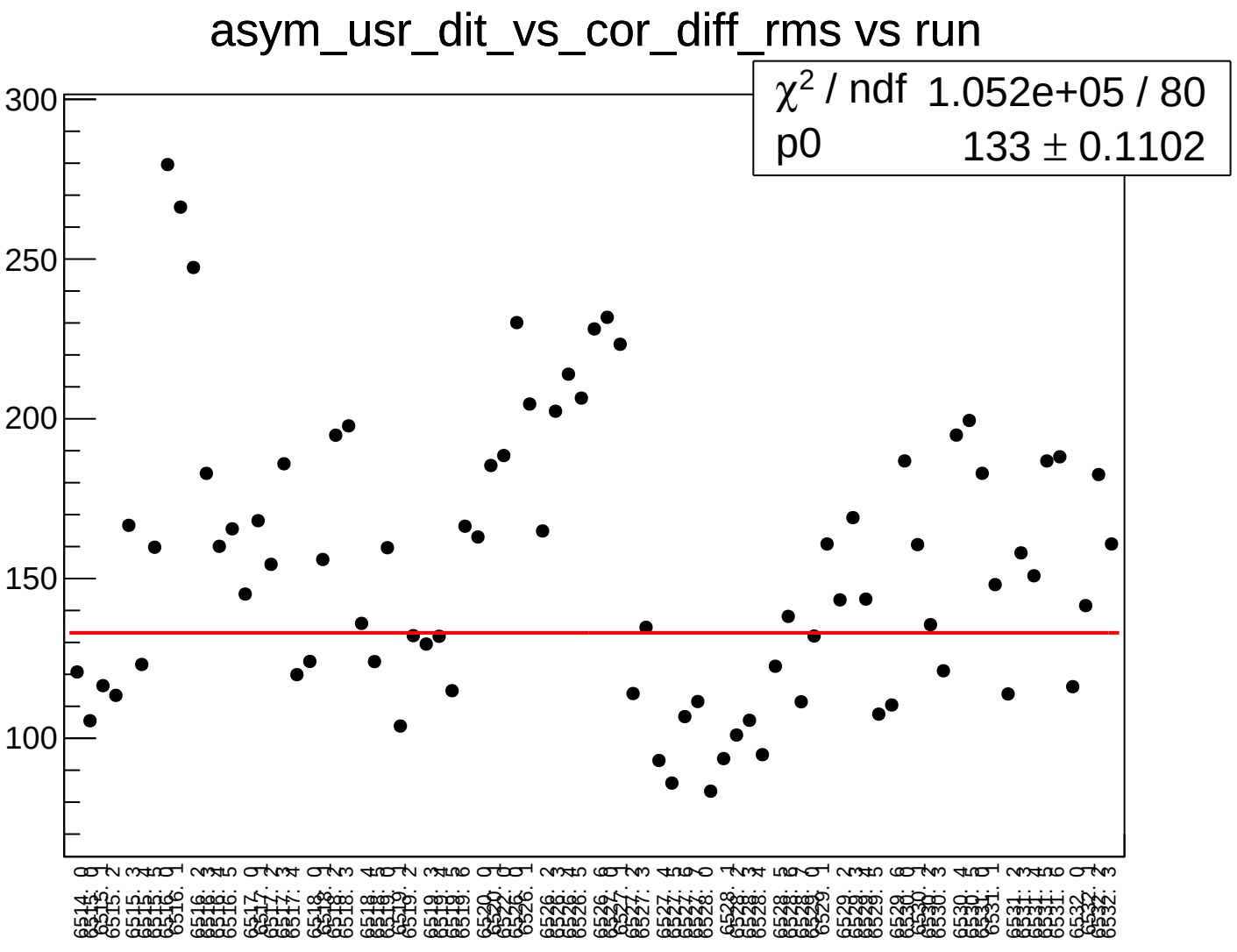

pull1D
Entries 81
Mean 0.001762
Std Dev 1.092

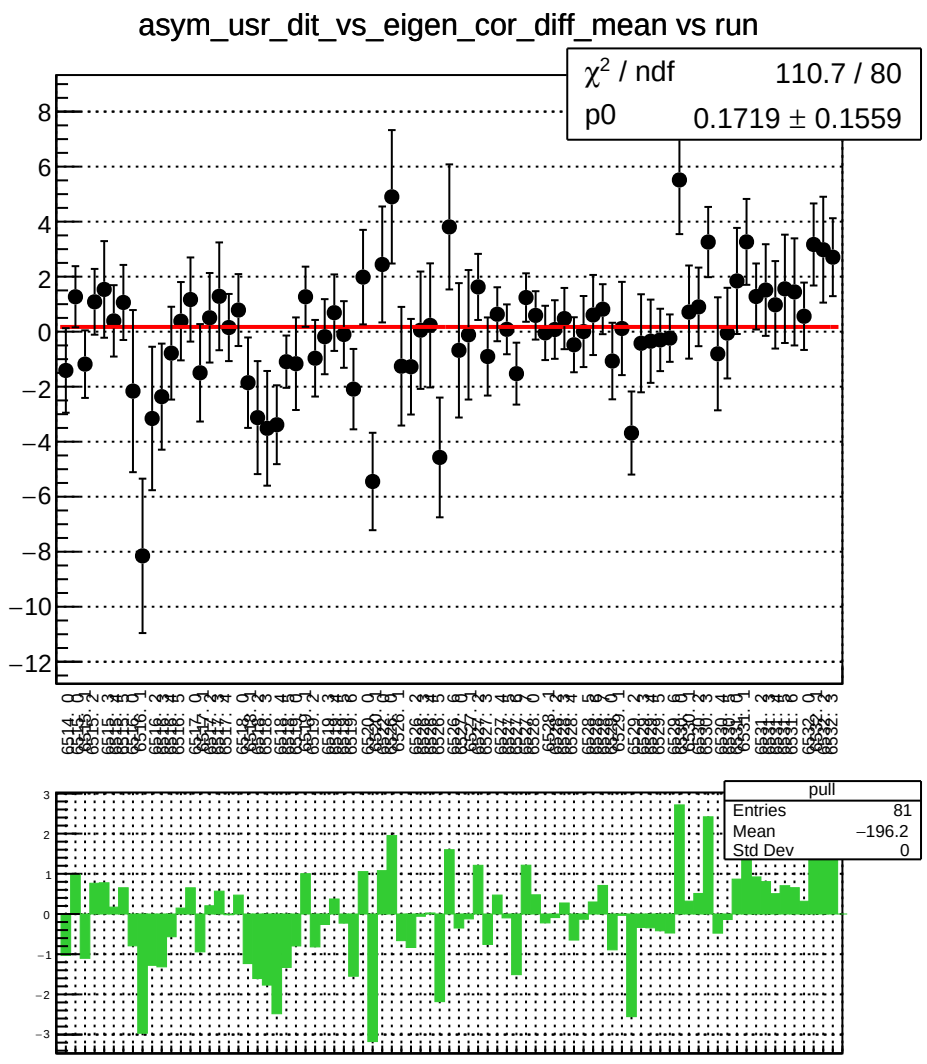
asym_usr_reg_vs_cor_diff_rms vs run

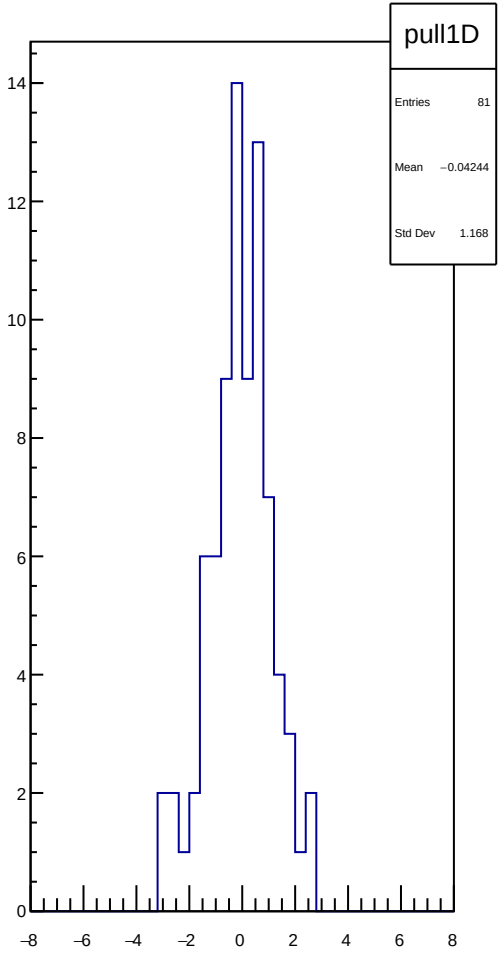


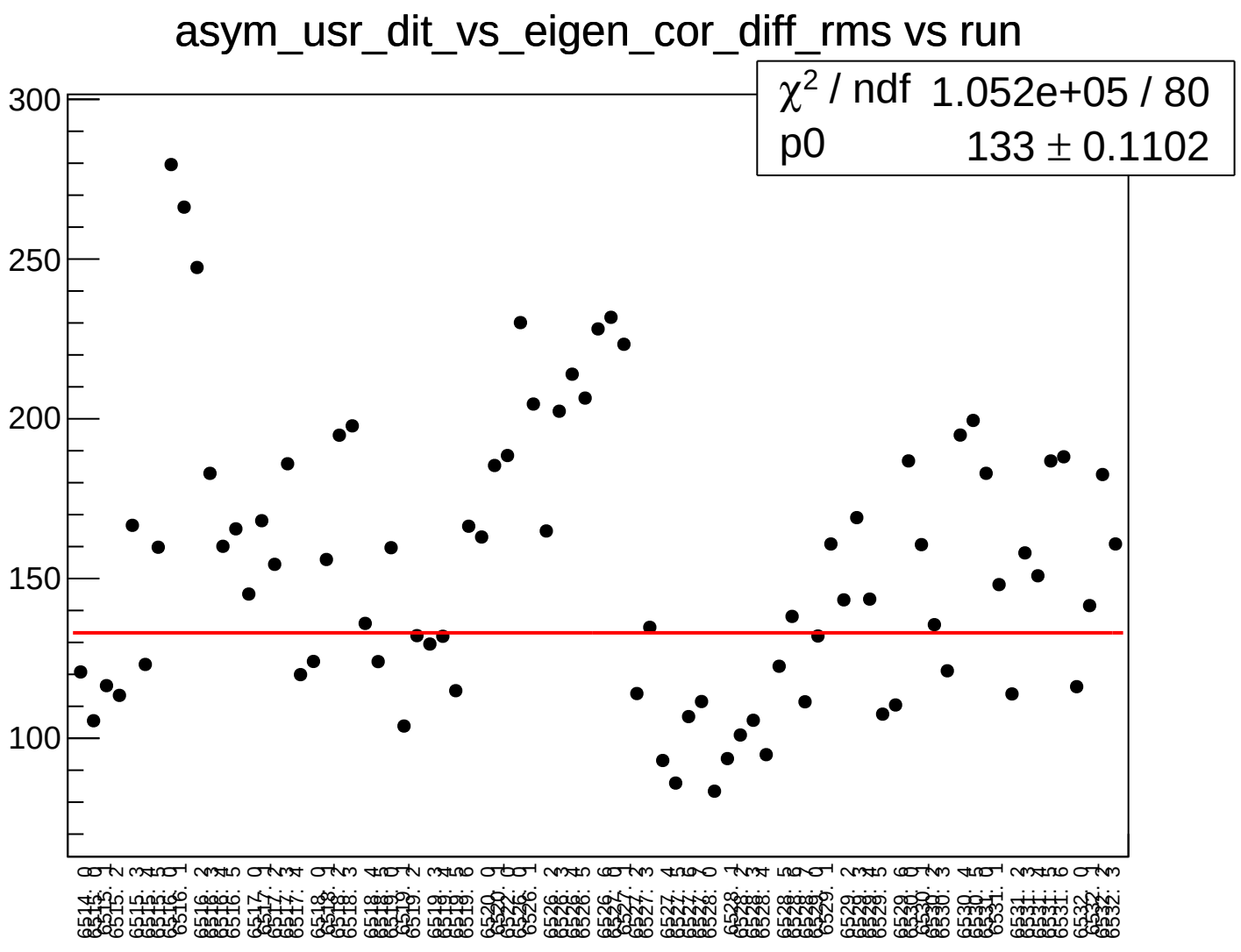

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 110.7 / 80
p0 0.1719 ± 0.1559
pull
Entries 81
Mean −196.2
Std Dev 0

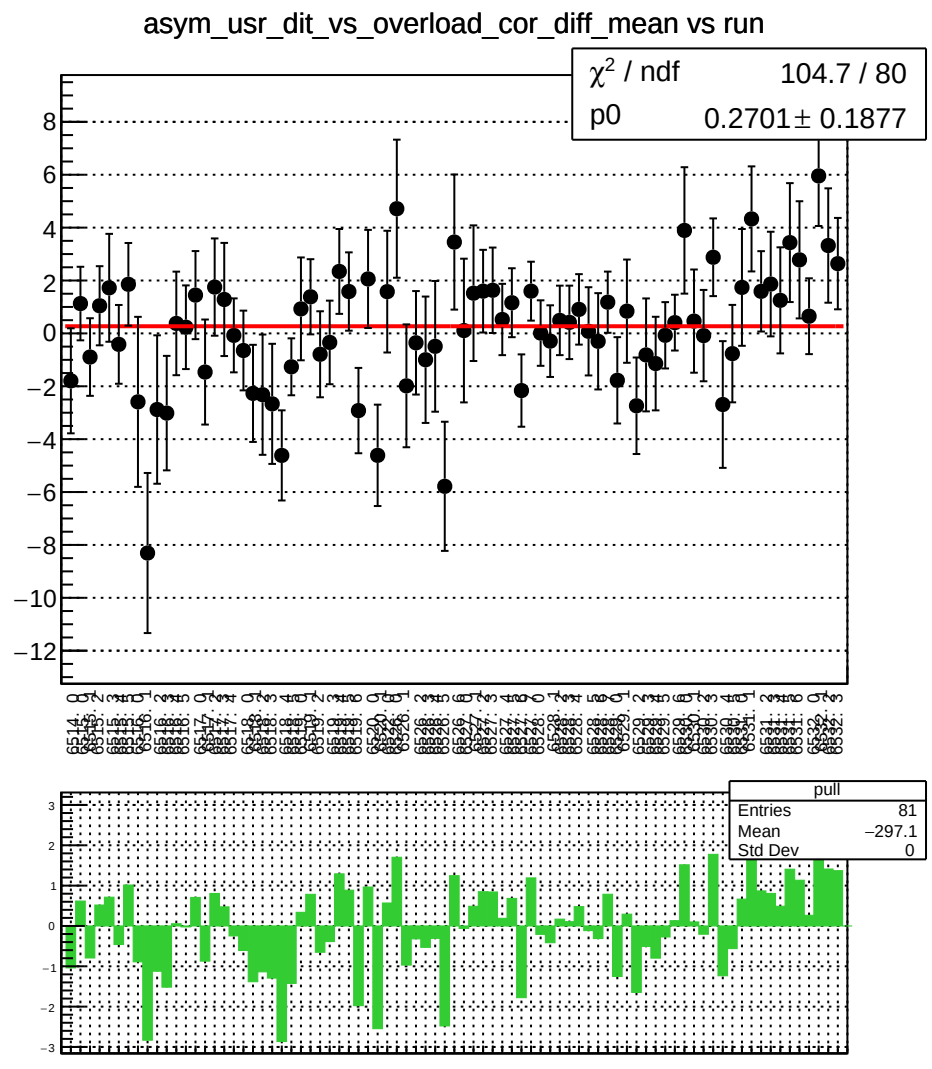

pull1D
Entries 81
Mean −0.04244
Std Dev 1.168

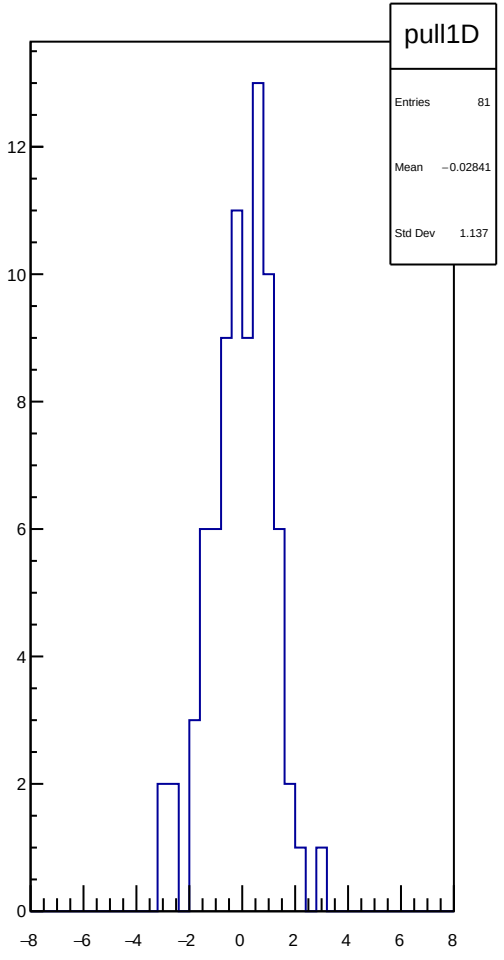

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 1.052e+05 / 80
p0 133 ± 0.1102
300
250
200
150
100

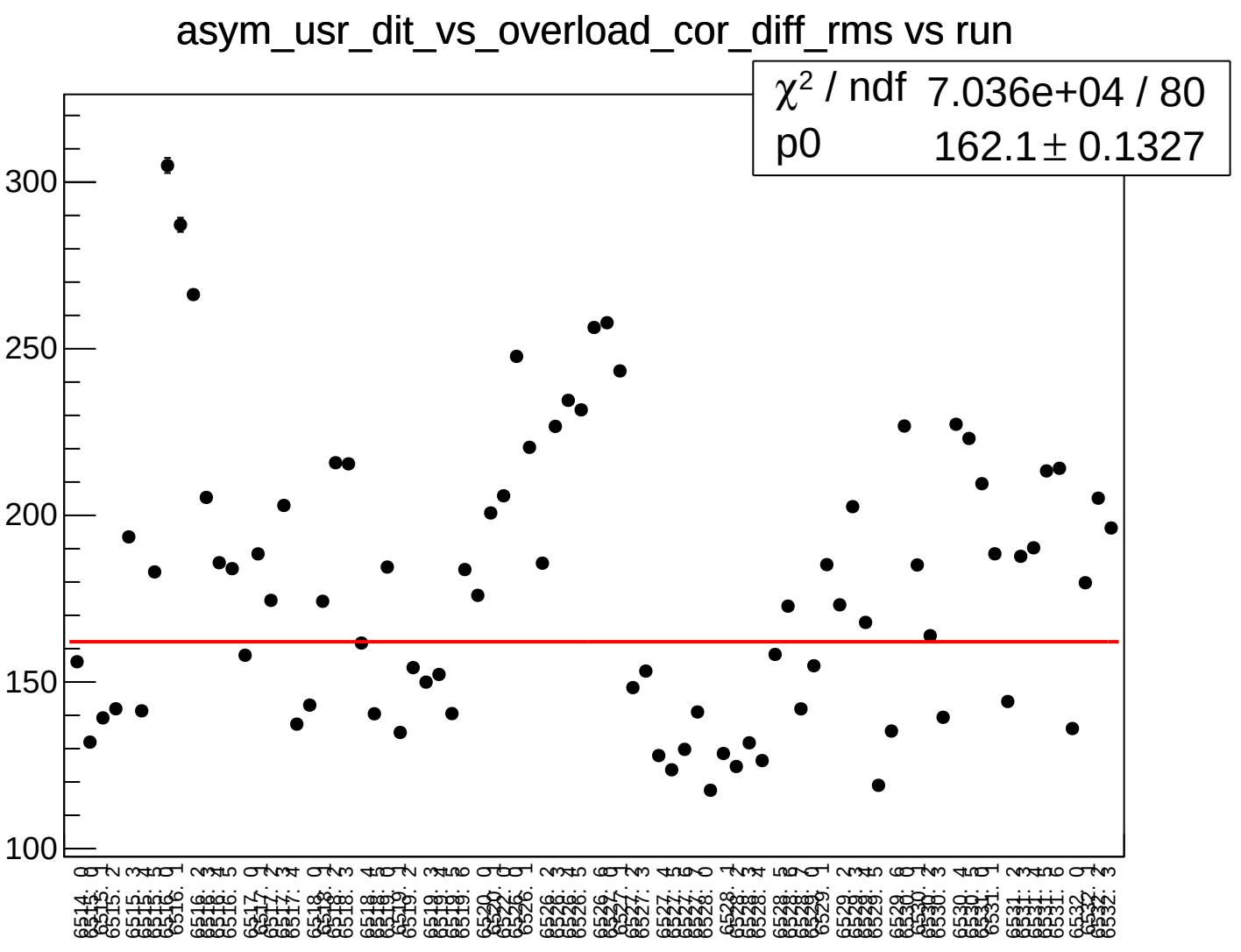

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110.7 / 80
p0 0.1719 ± 0.1559
pull
Entries 81
Mean −196.2
Std Dev 0

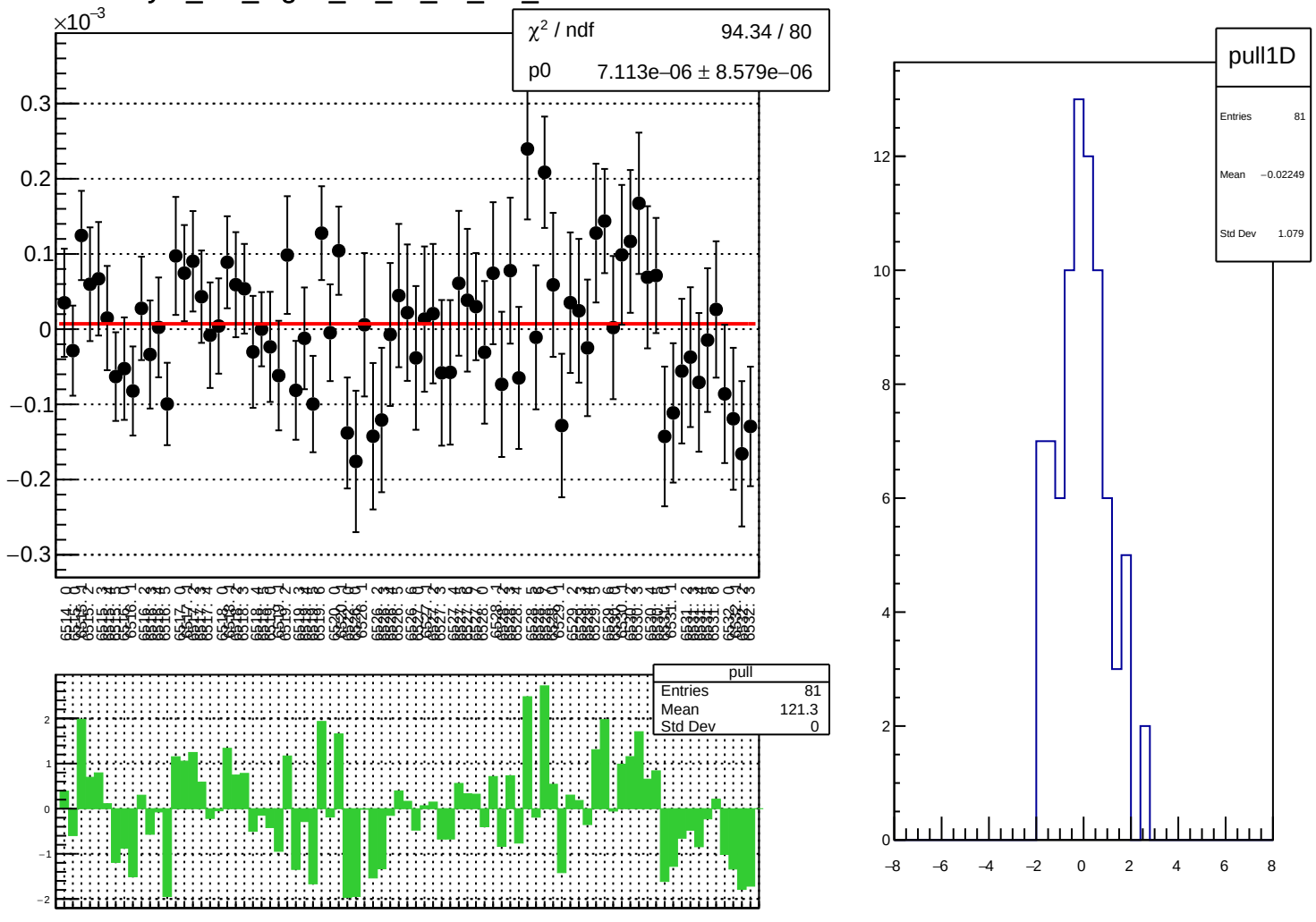

pull1D
Entries 81
Mean −0.04244
Std Dev 1.168

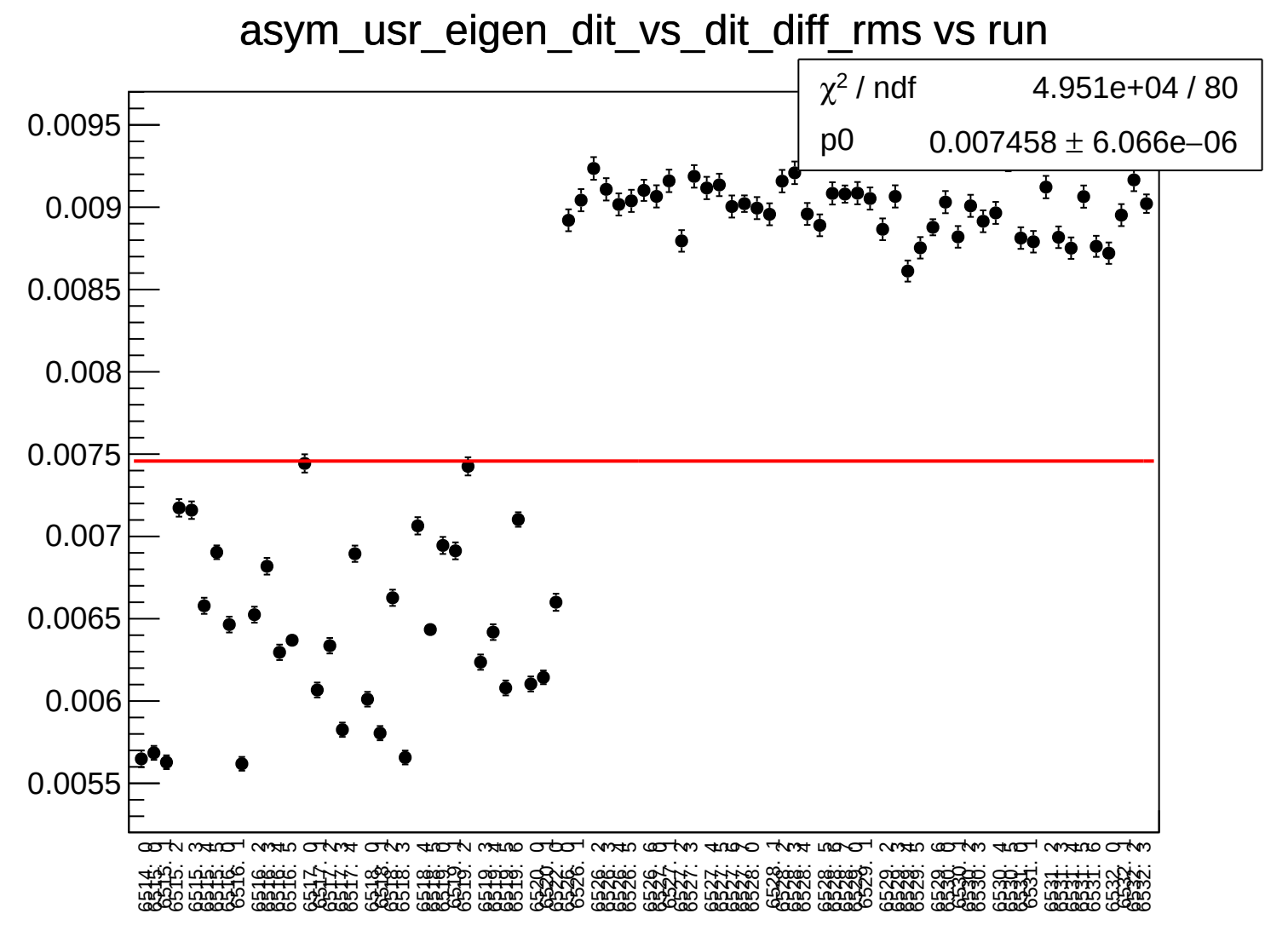

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.052e+05 / 80
p0 133 ± 0.1102
300
250
200
150
100

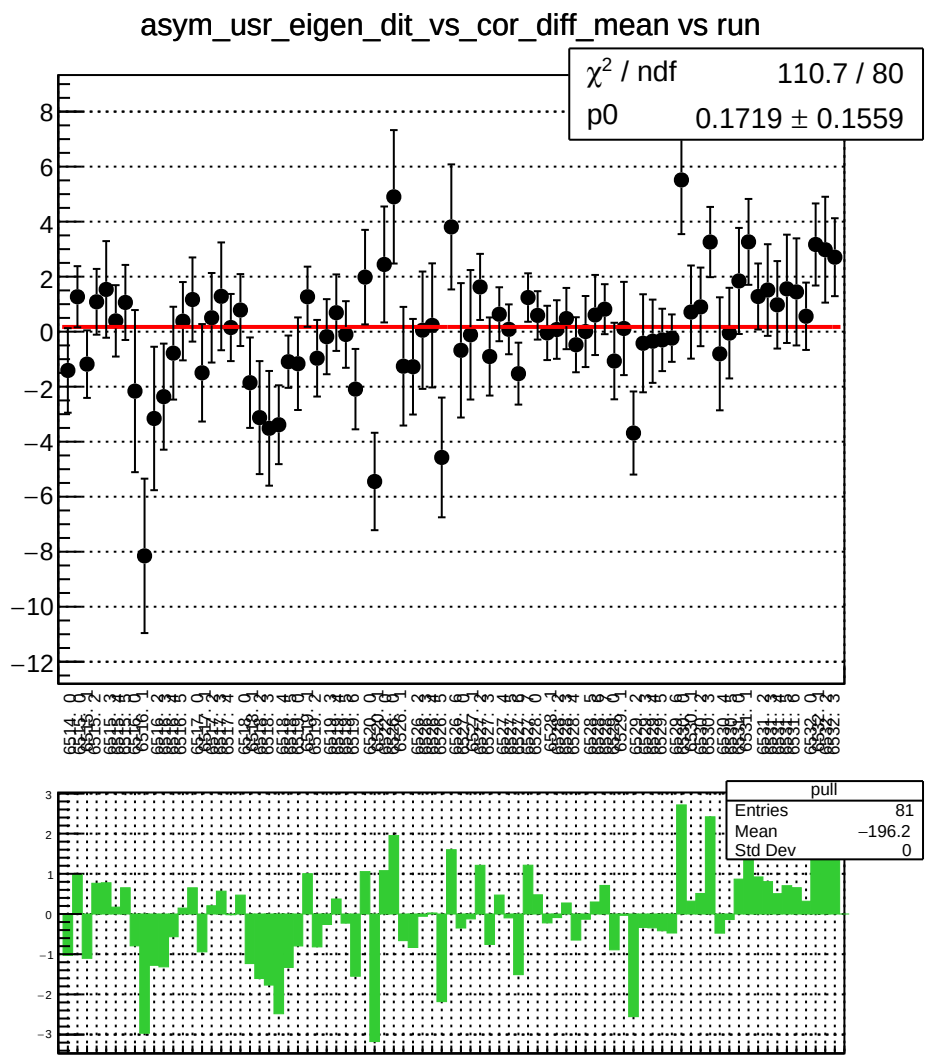

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 104.7 / 80
p0 0.2701 ± 0.1877
pull
Entries 81
Mean −297.1
Std Dev 0

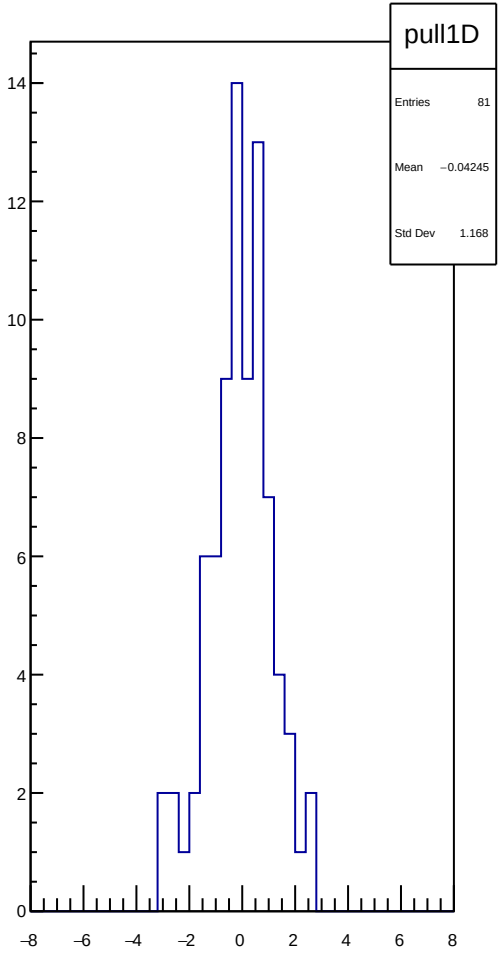

pull1D
Entries 81
Mean −0.02841
Std Dev 1.137

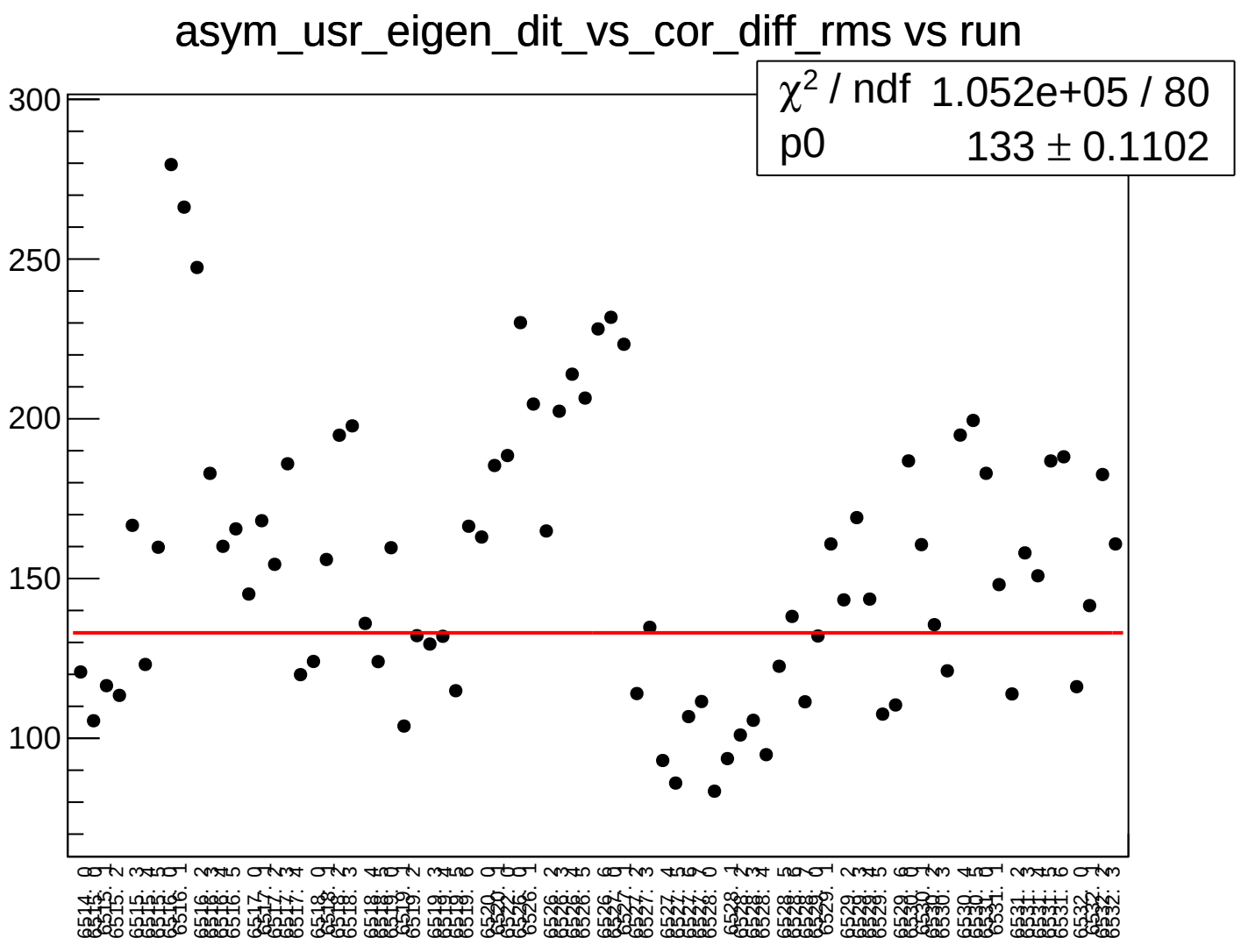

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 7.036e+04 / 80
p0 162.1 ± 0.1327
300
250
200
150
100

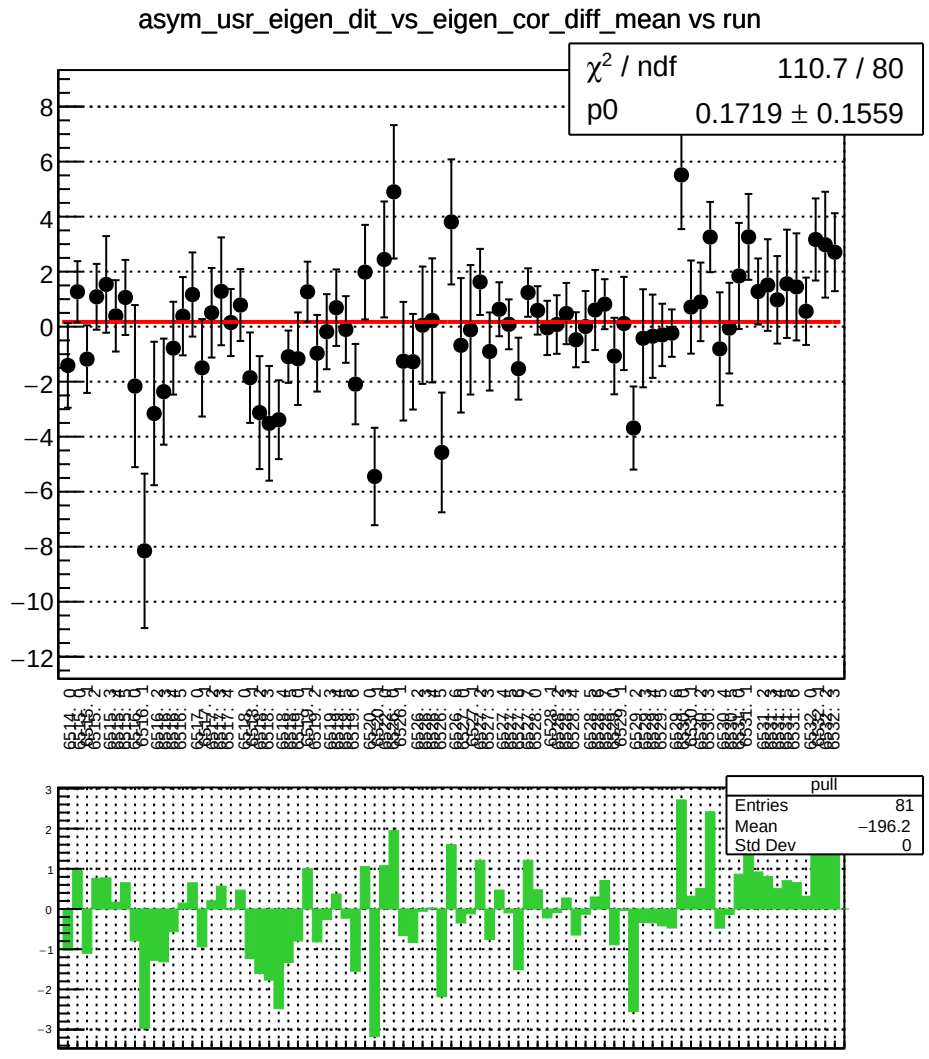

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.34 / 80
p0 7.113e−06 ± 8.579e−06
pull
Entries 81
Mean 121.3
Std Dev 0
pull1D
Entries 81
Mean −0.02249
Std Dev 1.079

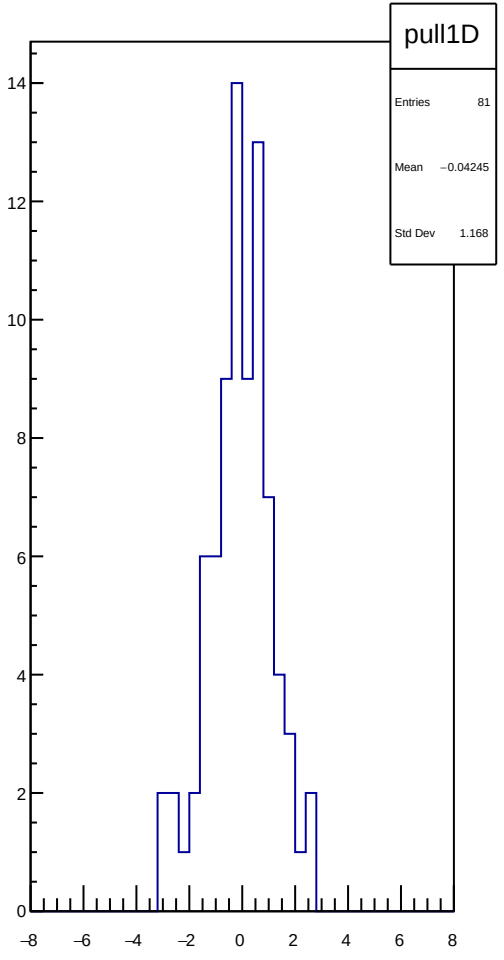

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.951e+04 / 80
p0 0.007458 ± 6.066e−06
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055

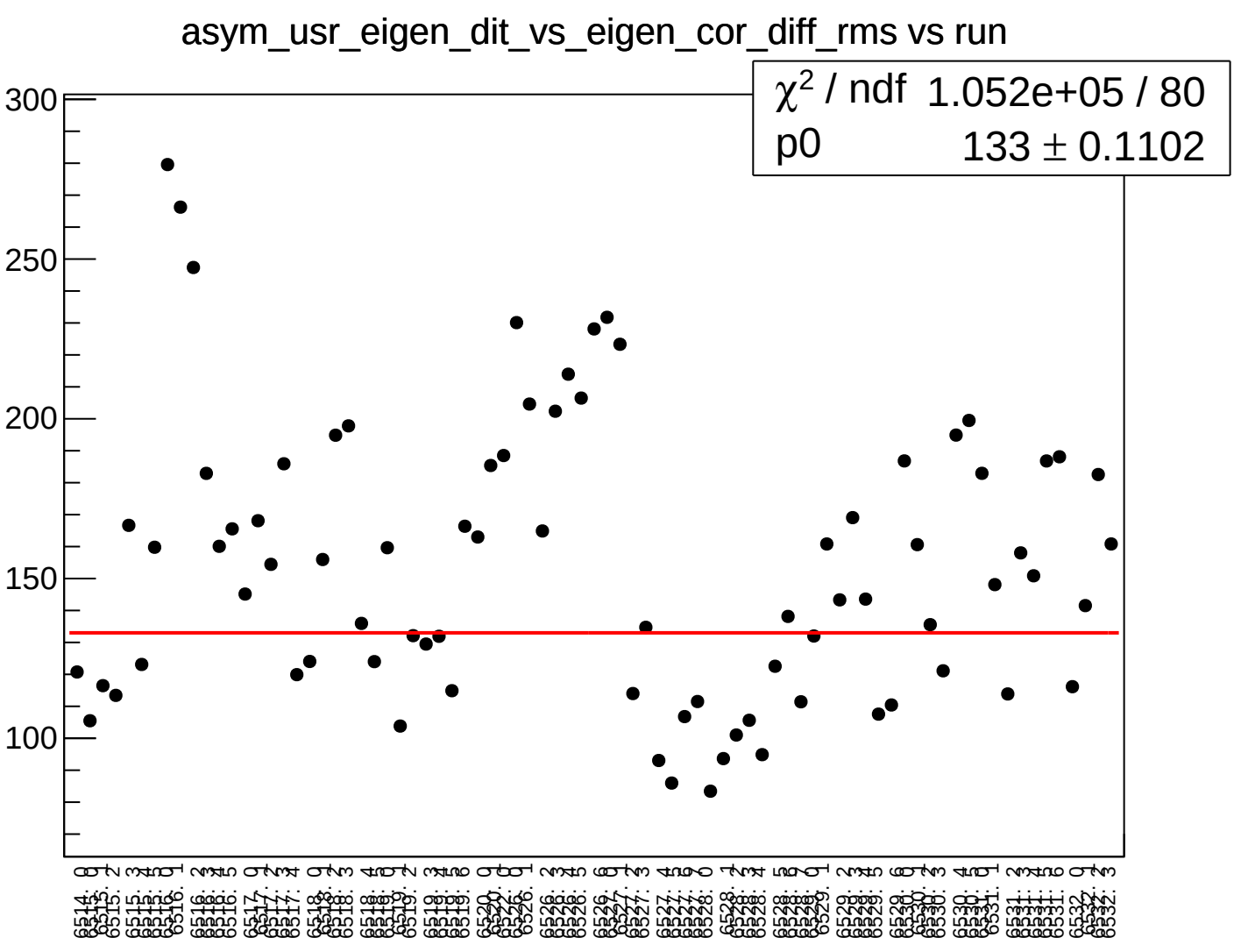

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 110.7 / 80
p0 0.1719 ± 0.1559
pull
Entries 81
Mean −196.2
Std Dev 0

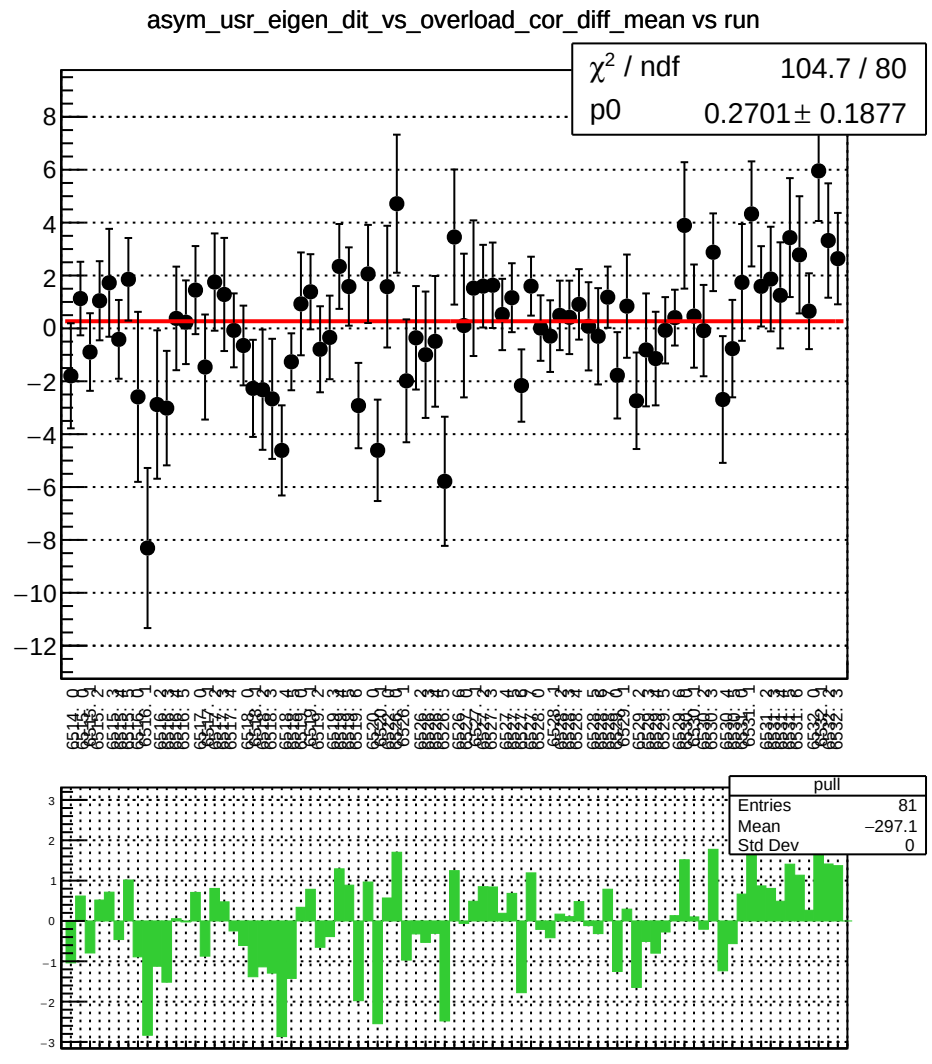

pull1D
Entries 81
Mean −0.04245
Std Dev 1.168

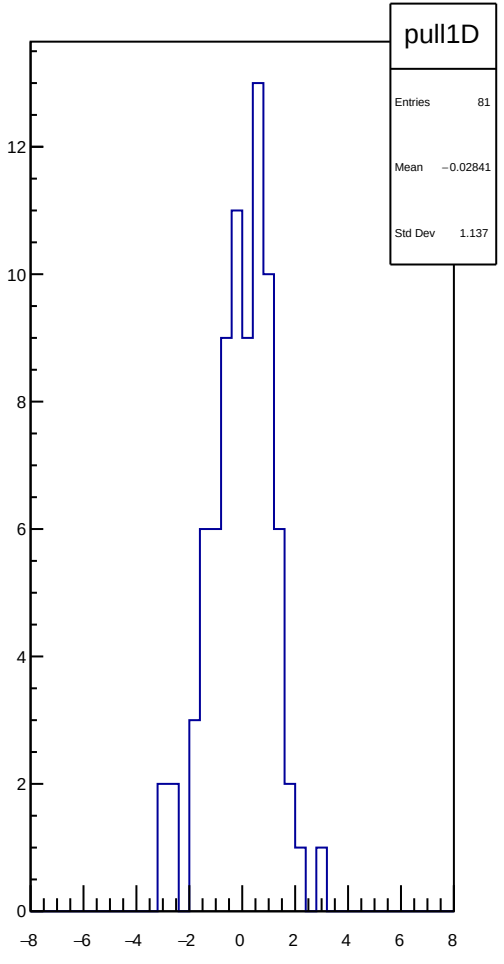

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.052e+05 / 80
p0 133 ± 0.1102
300
250
200
150
100

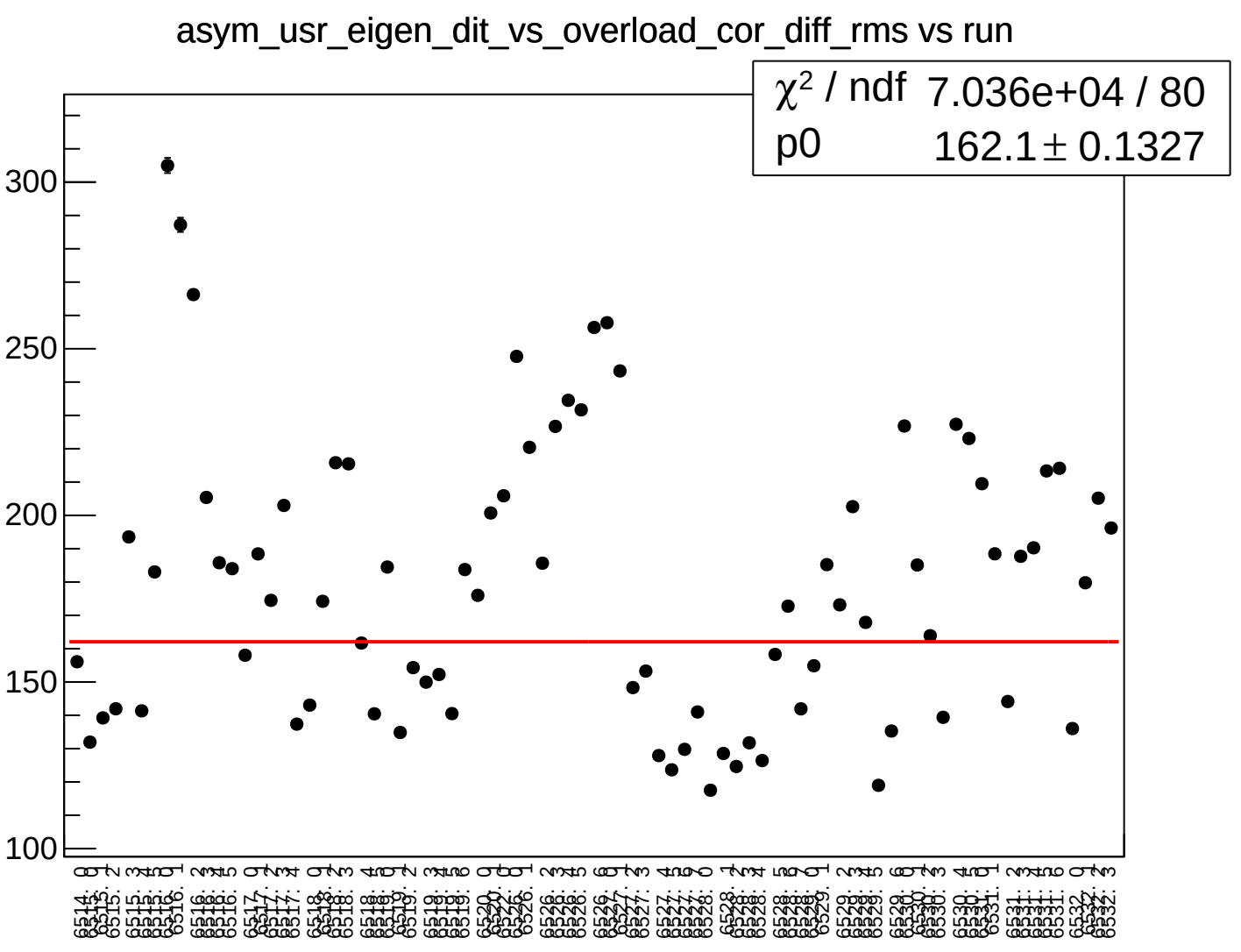

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110.7 / 80
p0 0.1719 ± 0.1559
pull
Entries 81
Mean −196.2
Std Dev 0

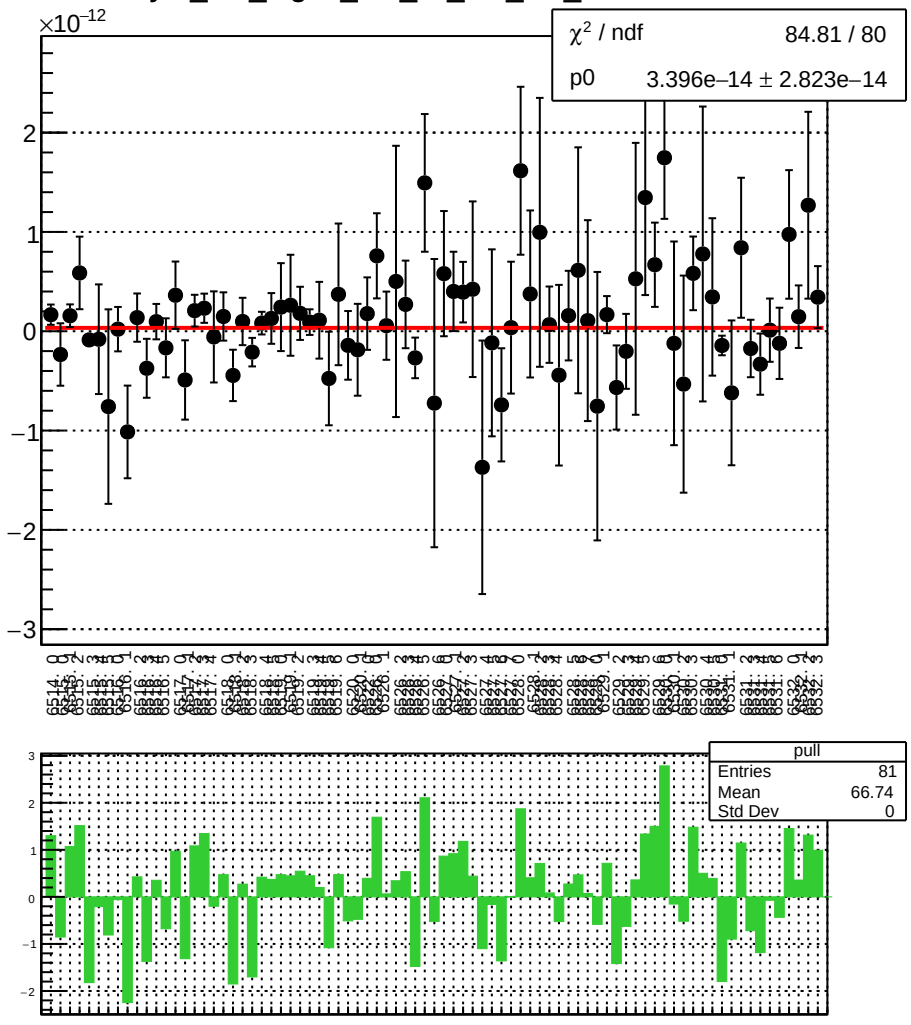

pull1D
Entries 81
Mean −0.04245
Std Dev 1.168

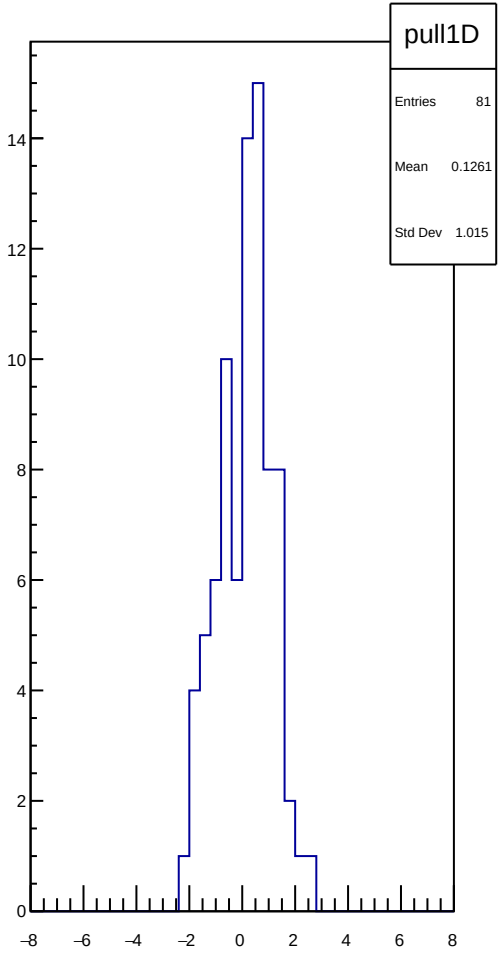

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.052e+05 / 80
p0 133 ± 0.1102
300
250
200
150
100

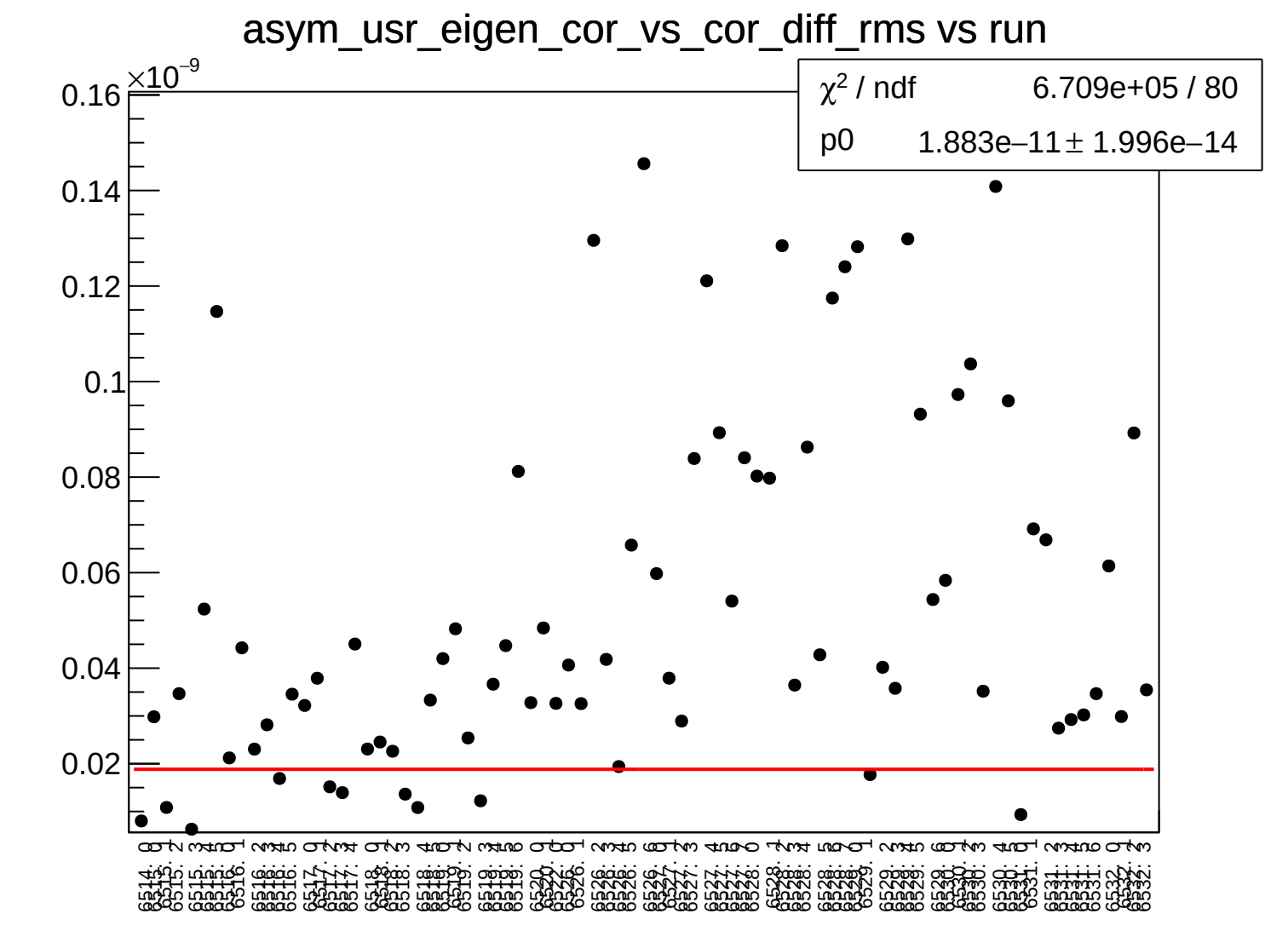

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 104.7 / 80
p0 0.2701± 0.1877
pull
Entries 81
Mean −297.1
Std Dev 0

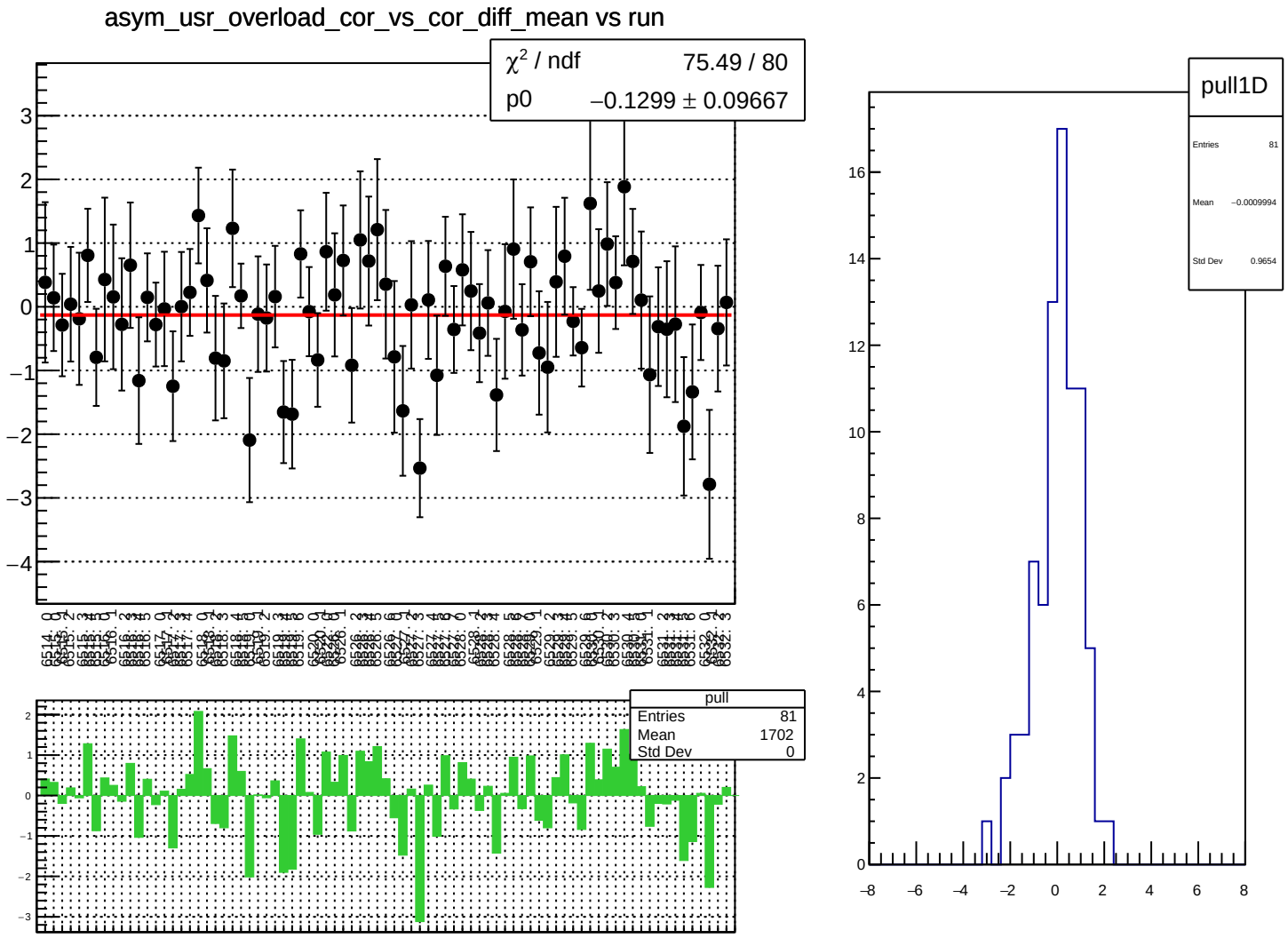

pull1D
Entries 81
Mean −0.02841
Std Dev 1.137

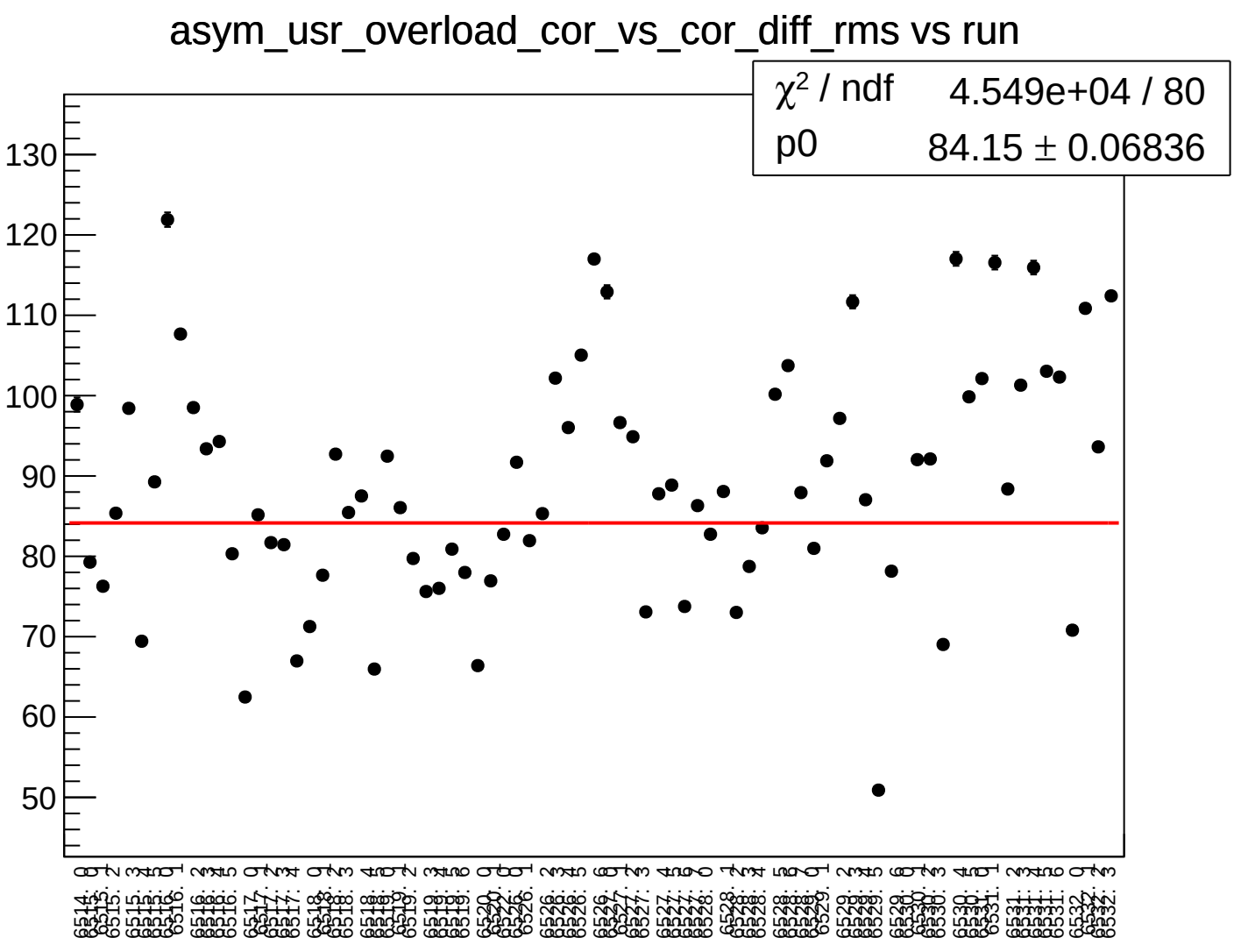

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 7.036e+04 / 80
p0 162.1 ± 0.1327
300
250
200
150
100

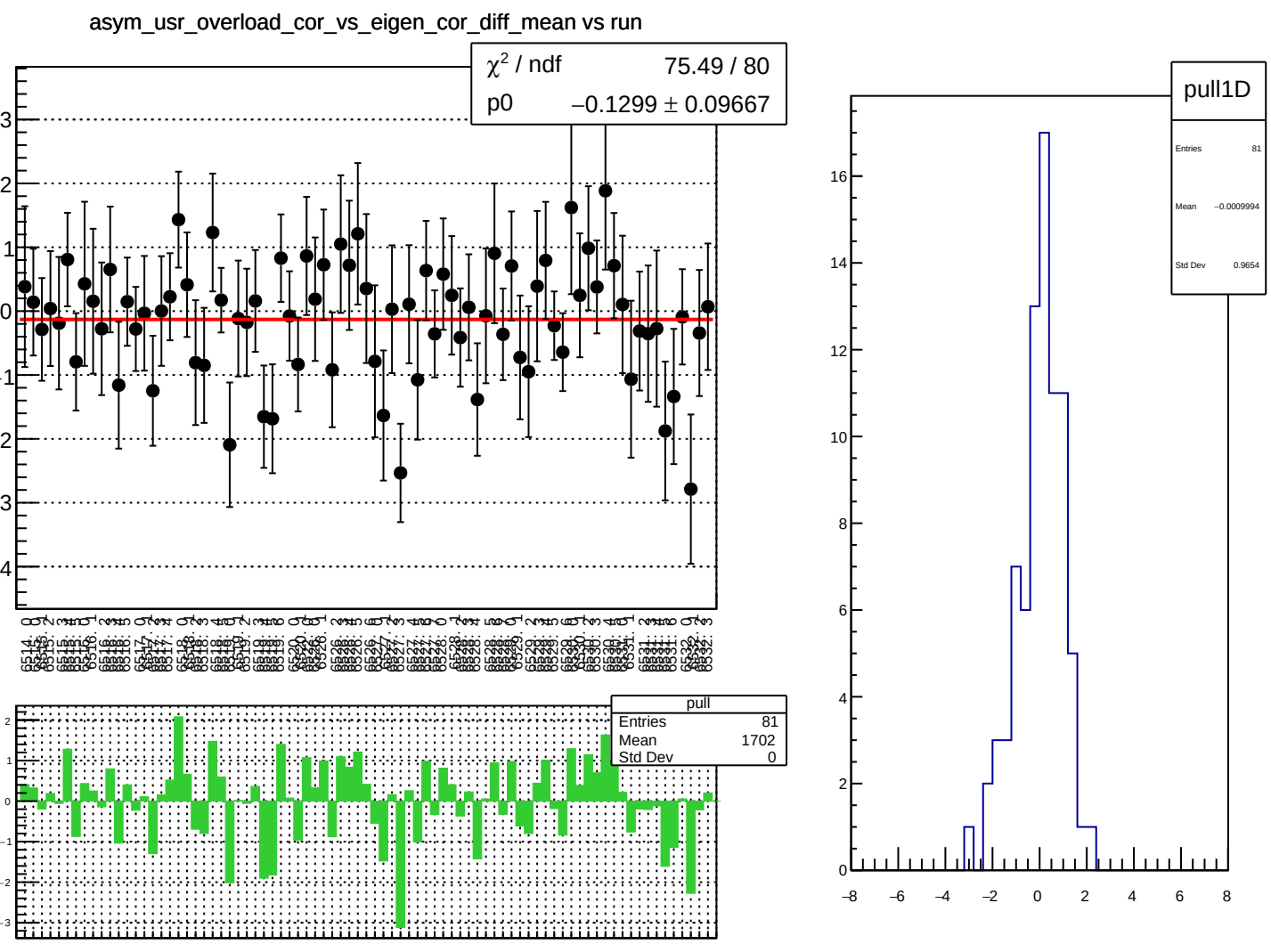

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.81 / 80
p0 3.396e−14 ± 2.823e−14
pull
Entries 81
Mean 66.74
Std Dev 0

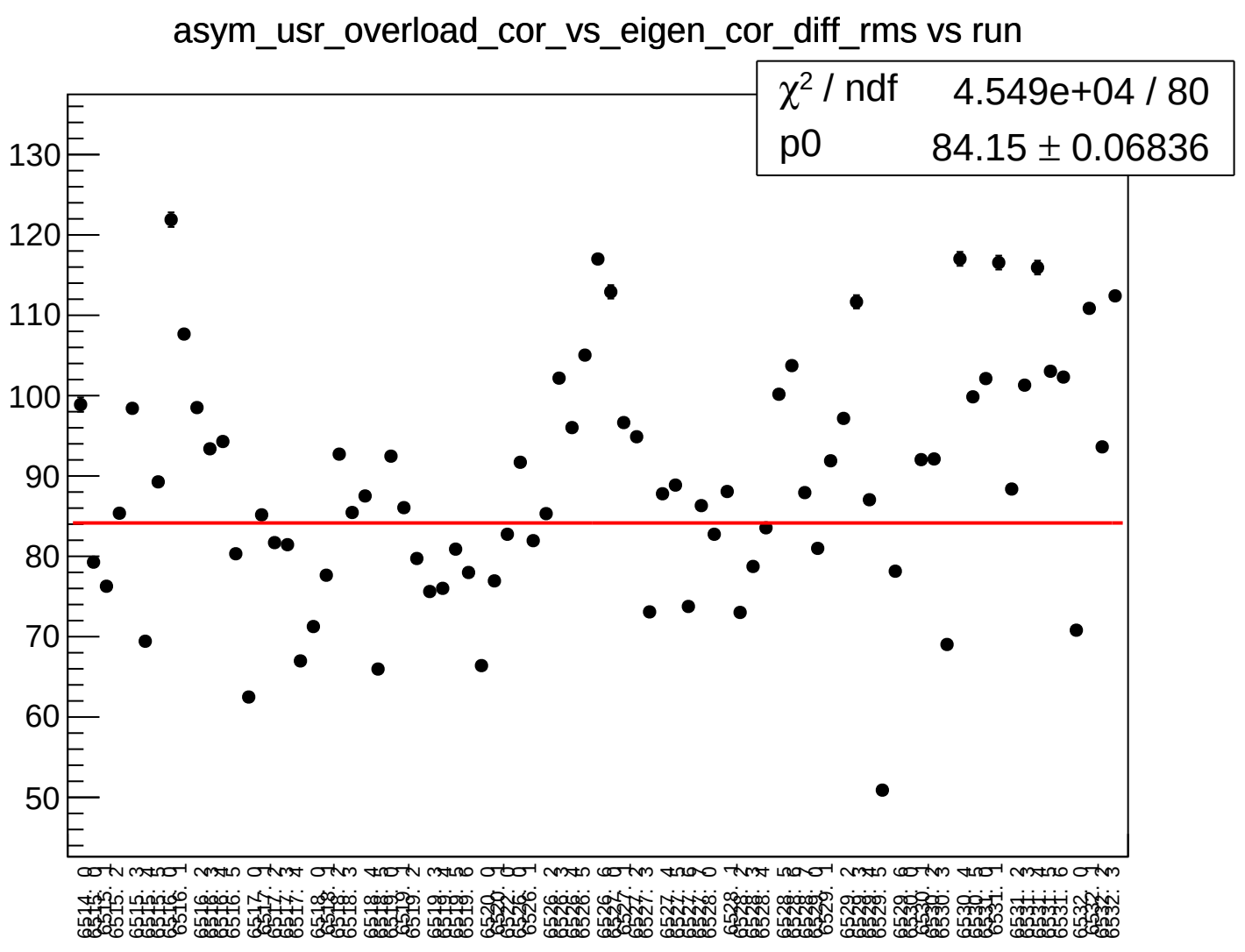

pull1D
Entries 81
Mean 0.1261
Std Dev 1.015

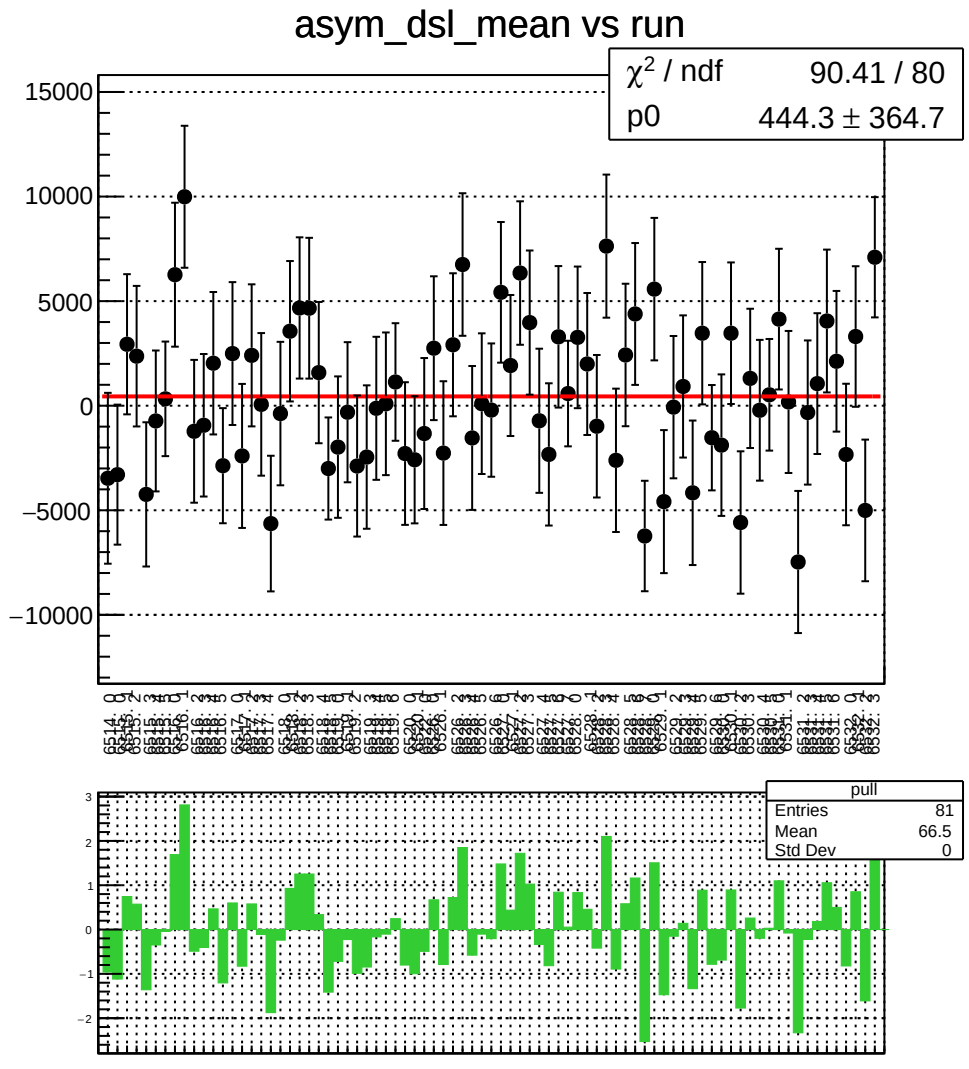

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
χ² / ndf 6.709e+05 / 80
p0 1.883e−11 ± 1.996e−14

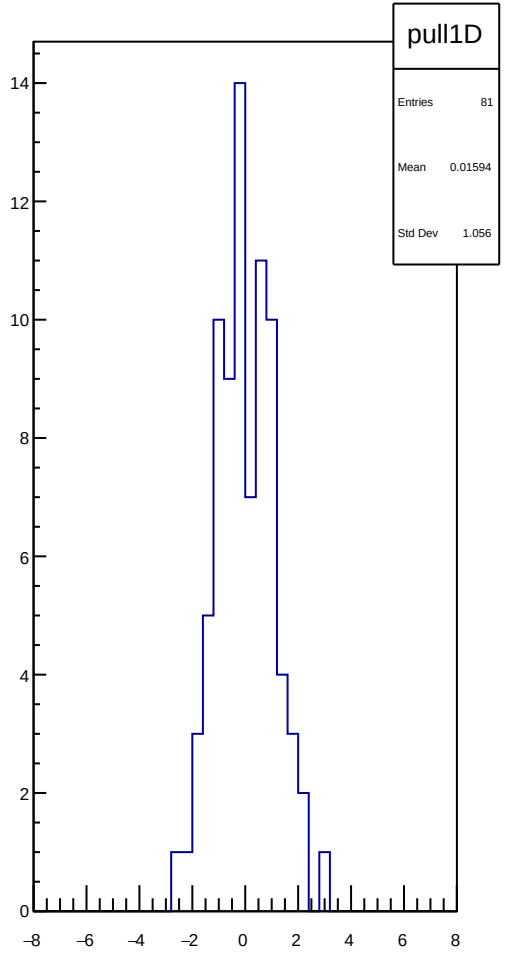

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 75.49 / 80
p0 −0.1299 ± 0.09667
pull
Entries 81
Mean 1702
Std Dev 0
pull1D
Entries 81
Mean −0.0009994
Std Dev 0.9654

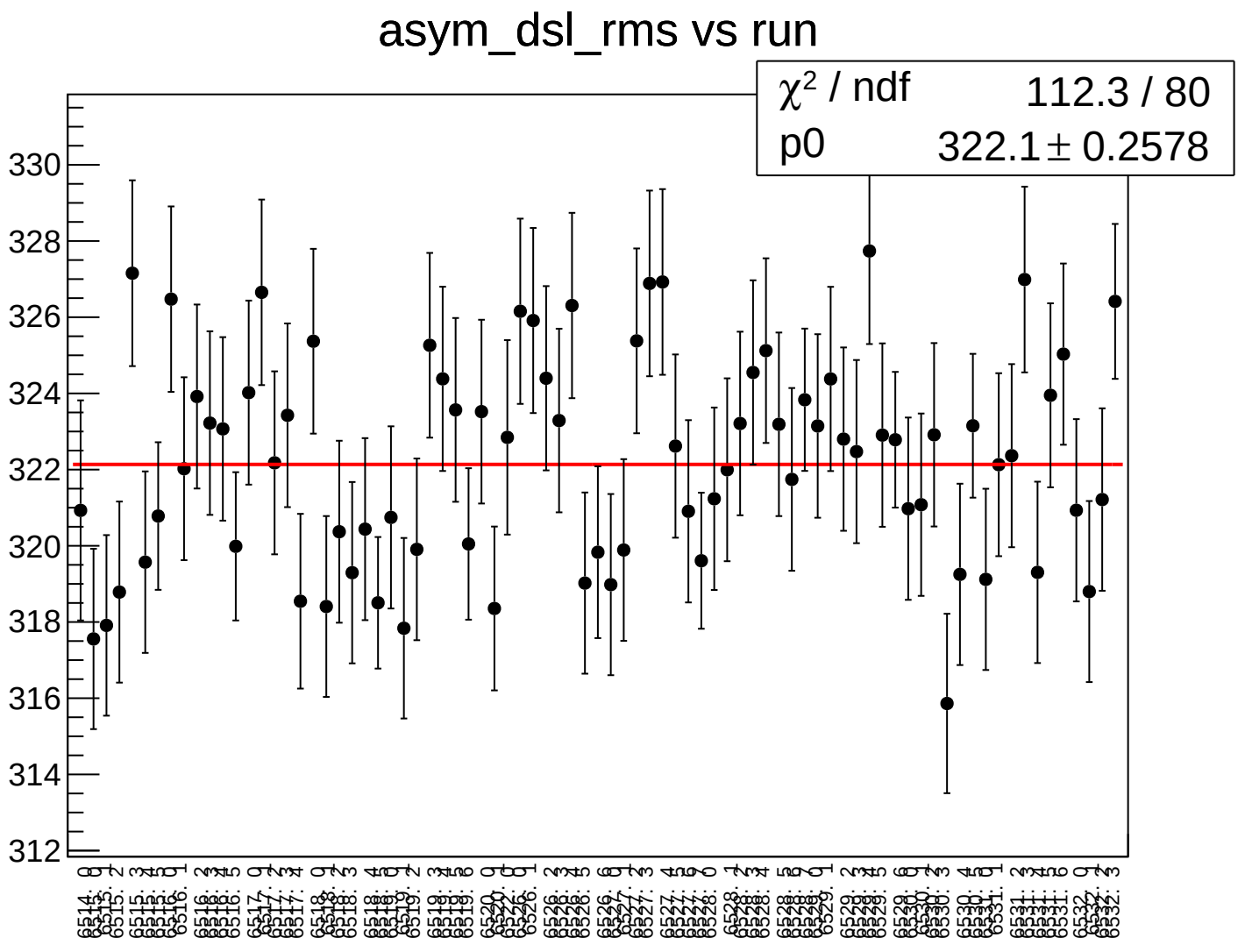

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 4.549e+04 / 80
p0 84.15 ± 0.06836
130
120
110
100
90
80
70
60
50

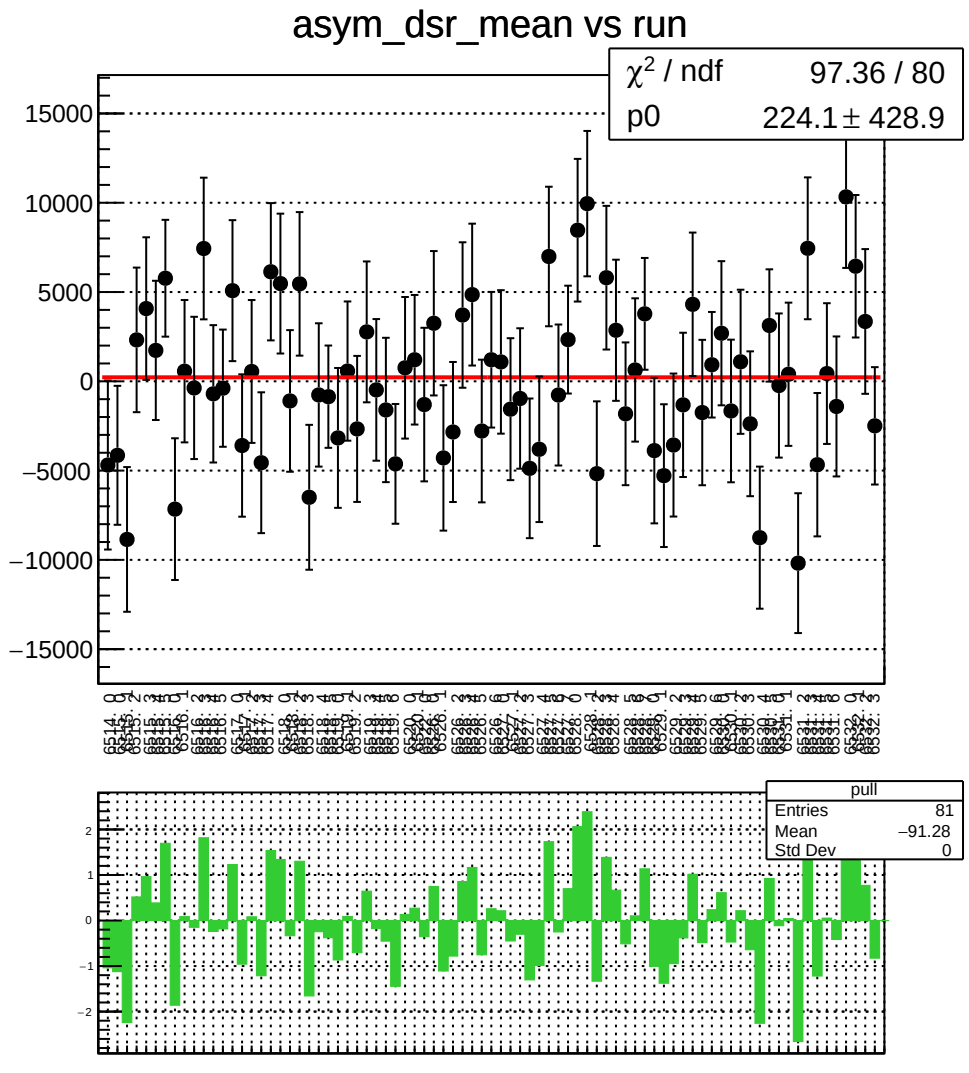

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.49 / 80
p0 −0.1299 ± 0.09667
pull
Entries 81
Mean 1702
Std Dev 0
pull1D
Entries 81
Mean −0.0009994
Std Dev 0.9654

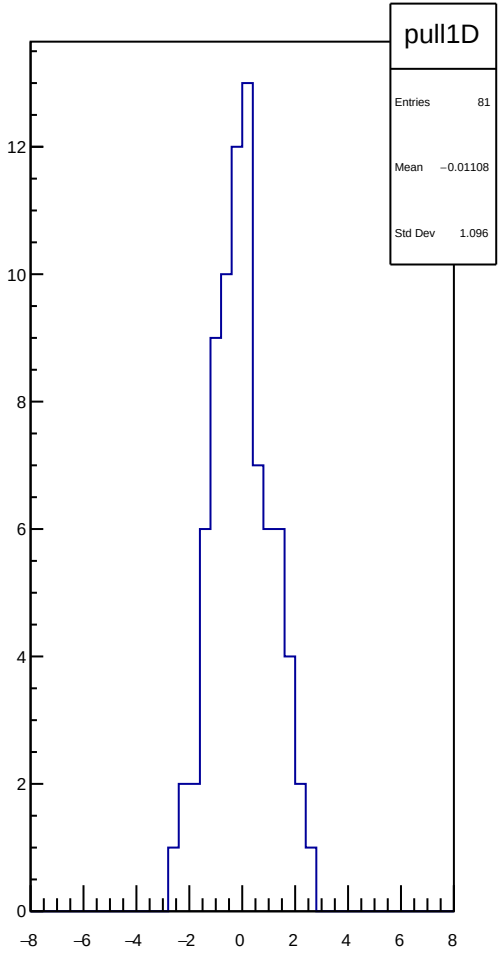

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.549e+04 / 80
p0 84.15 ± 0.06836
130
120
110
100
90
80
70
60
50

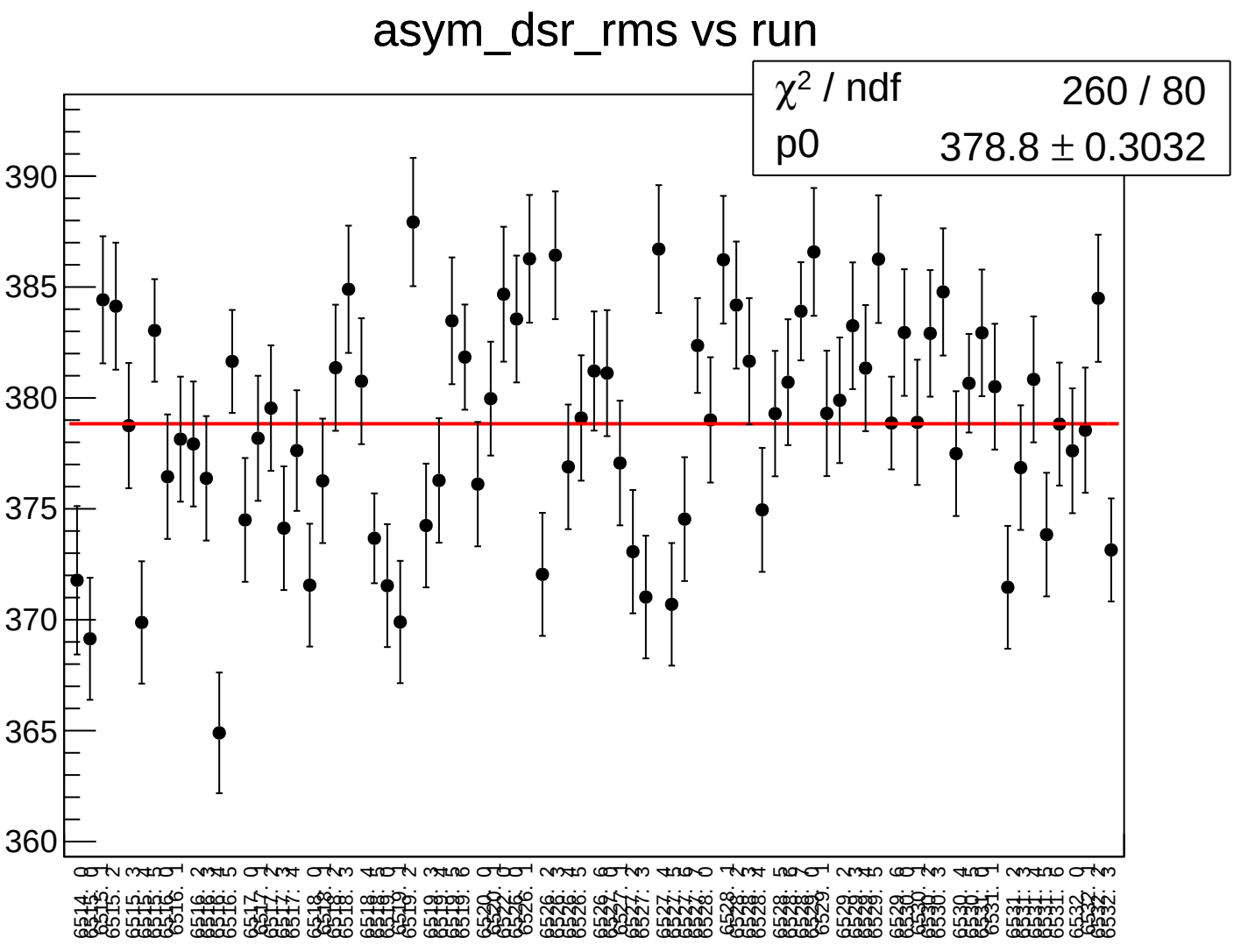

asym_dsl_mean vs run
χ² / ndf 90.41 / 80
p0 444.3 ± 364.7
15000
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 66.5
Std Dev 0
3
2
1
0
−1
−2

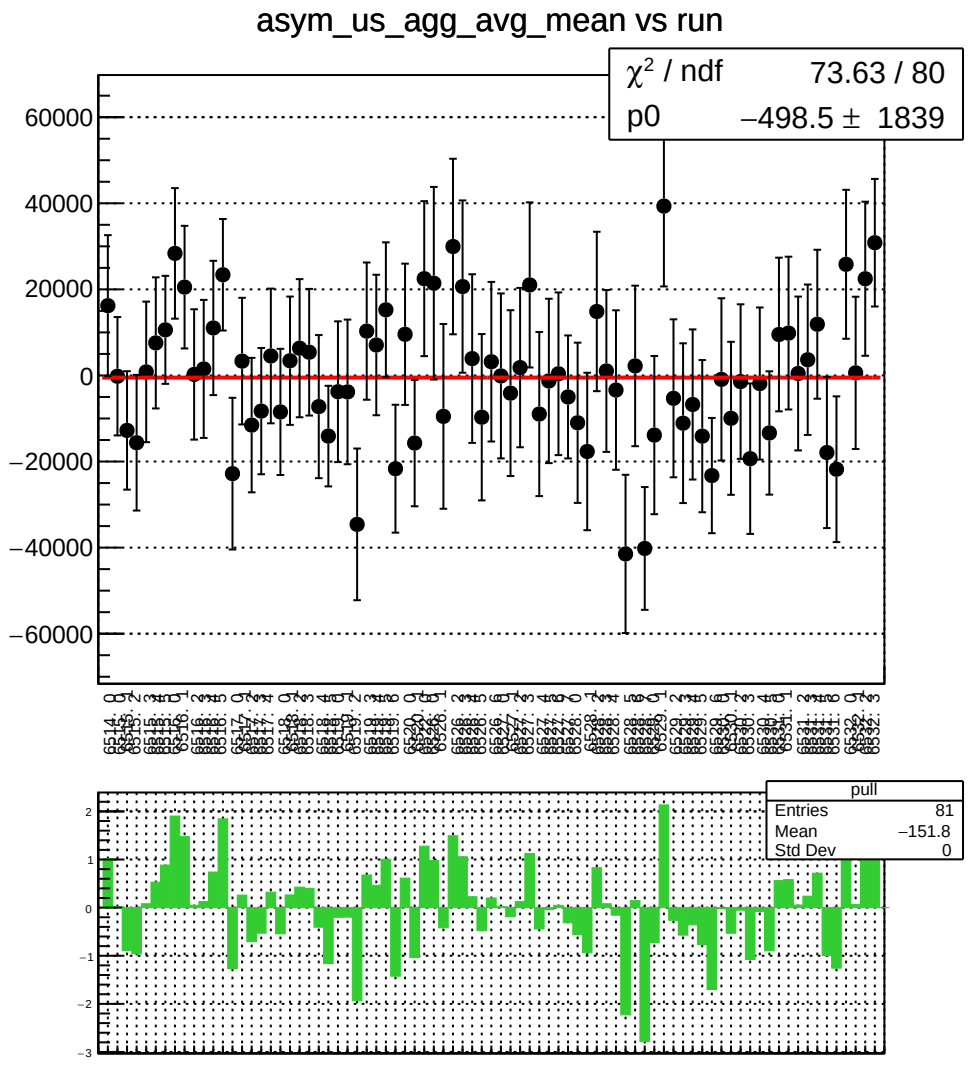

pull1D
Entries 81
Mean 0.01594
Std Dev 1.056
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

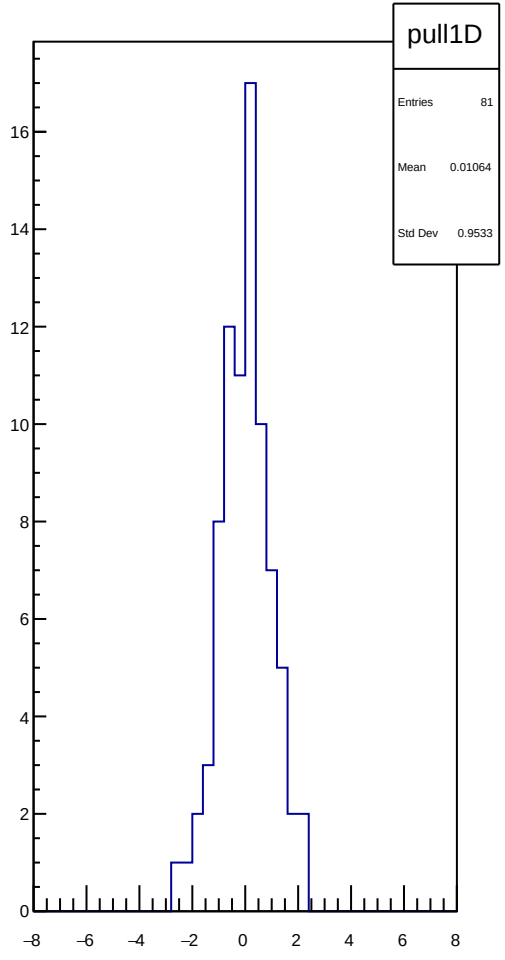

asym_dsl_rms vs run
χ² / ndf 112.3 / 80
p0 322.1 ± 0.2578
330
328
326
324
322
320
318
316
314
312

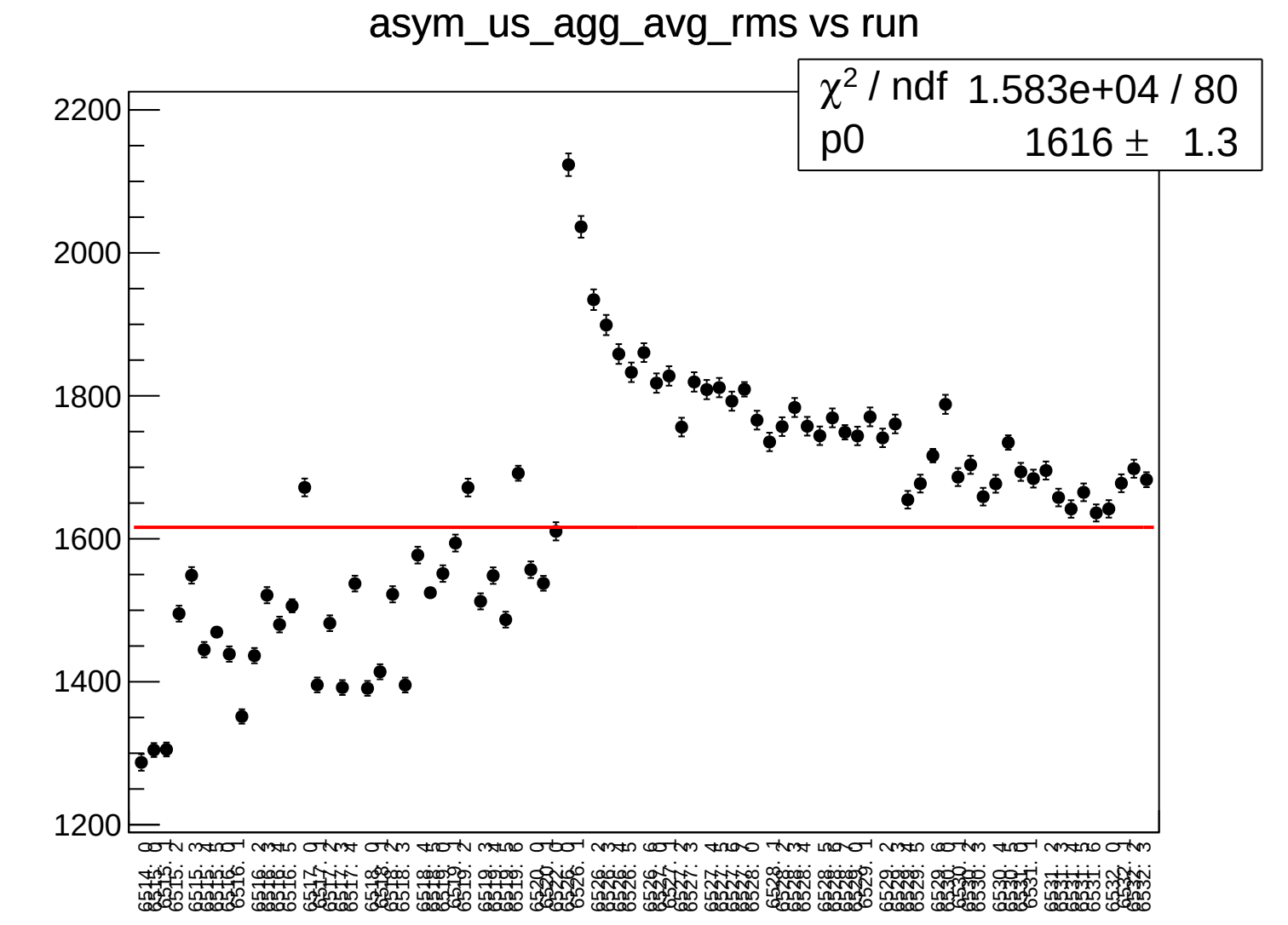

asym_dsr_mean vs run
χ² / ndf 97.36 / 80
p0 224.1 ± 428.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean −91.28
Std Dev 0
2
1
0
−1
−2

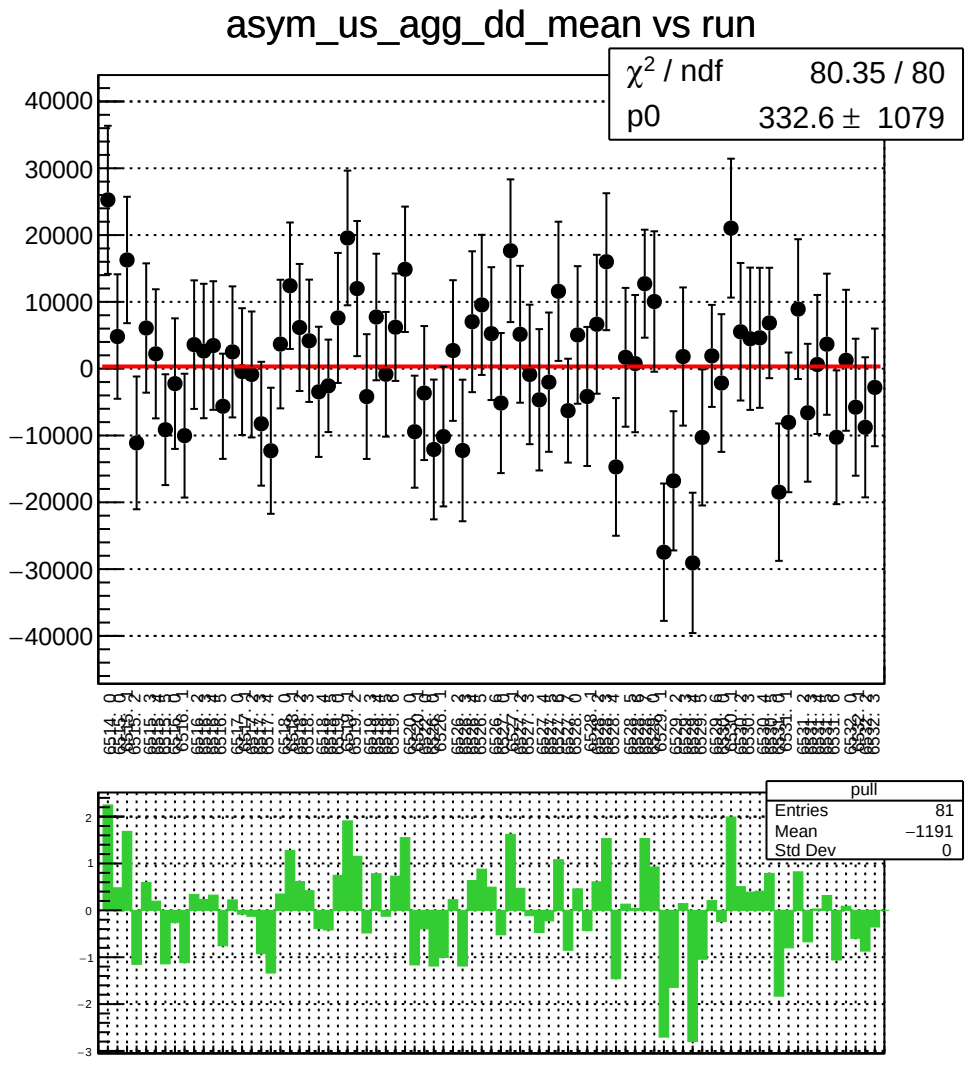

pull1D
Entries 81
Mean −0.01108
Std Dev 1.096
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

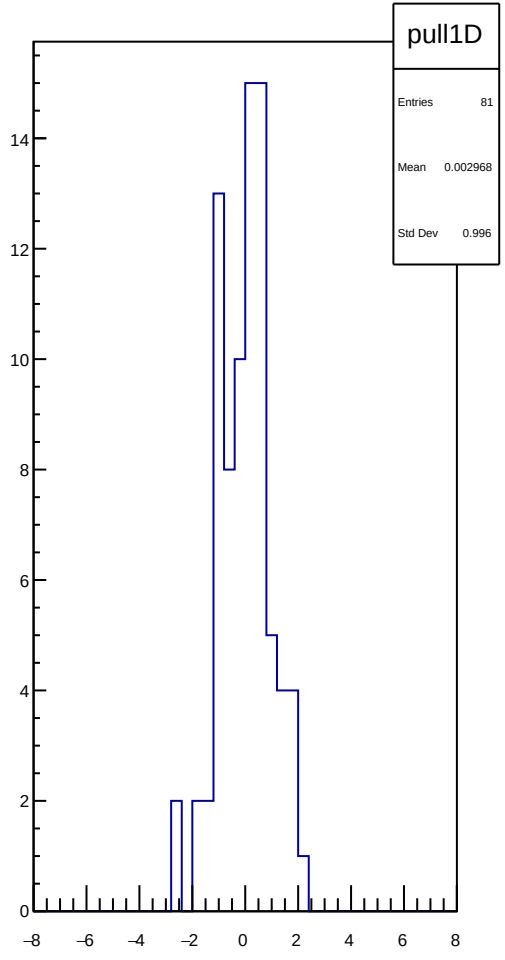

asym_dsr_rms vs run
χ² / ndf 260 / 80
p0 378.8 ± 0.3032
390
385
380
375
370
365
360

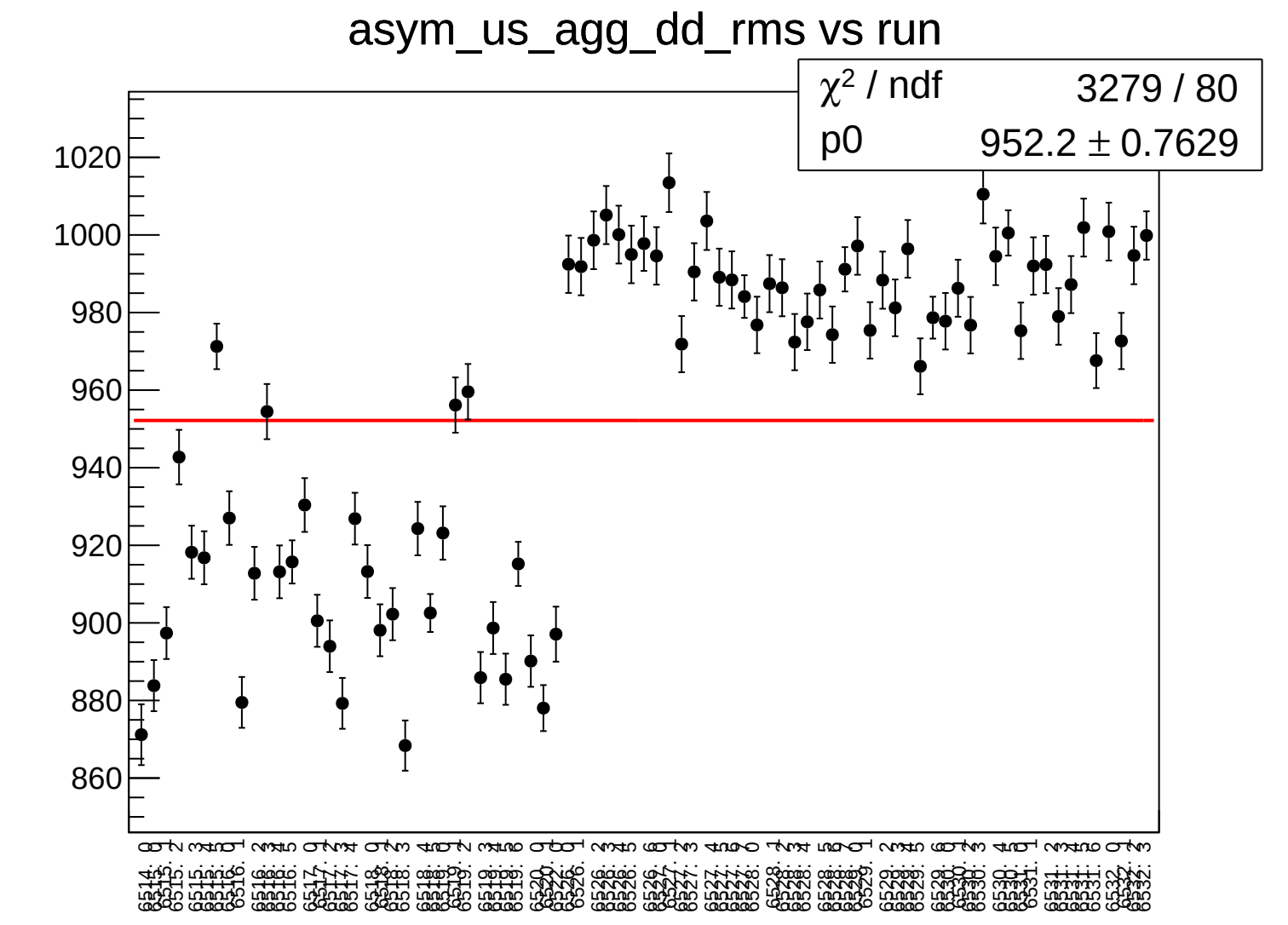

asym_us_agg_avg_mean vs run
χ² / ndf 73.63 / 80
p0 −498.5 ± 1839
pull
Entries 81
Mean −151.8
Std Dev 0

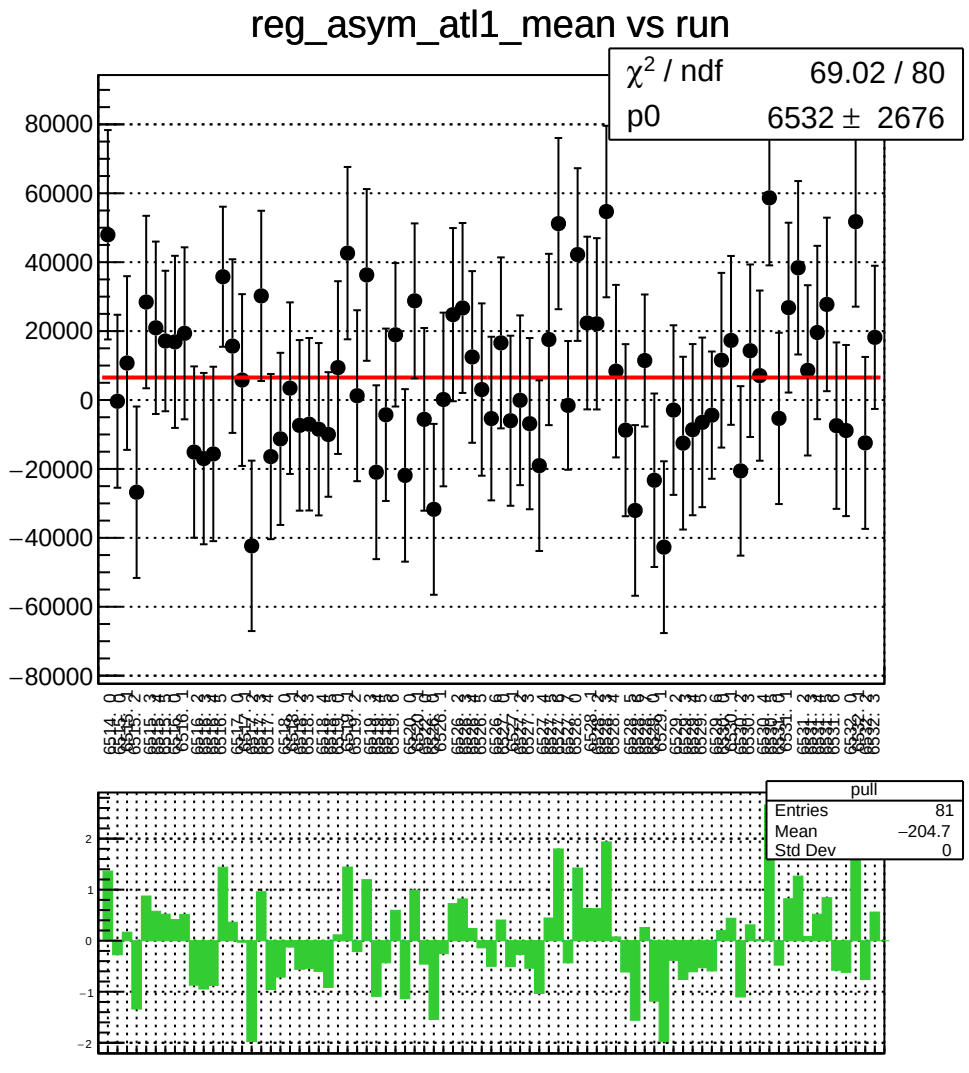

pull1D
Entries 81
Mean 0.01064
Std Dev 0.9533

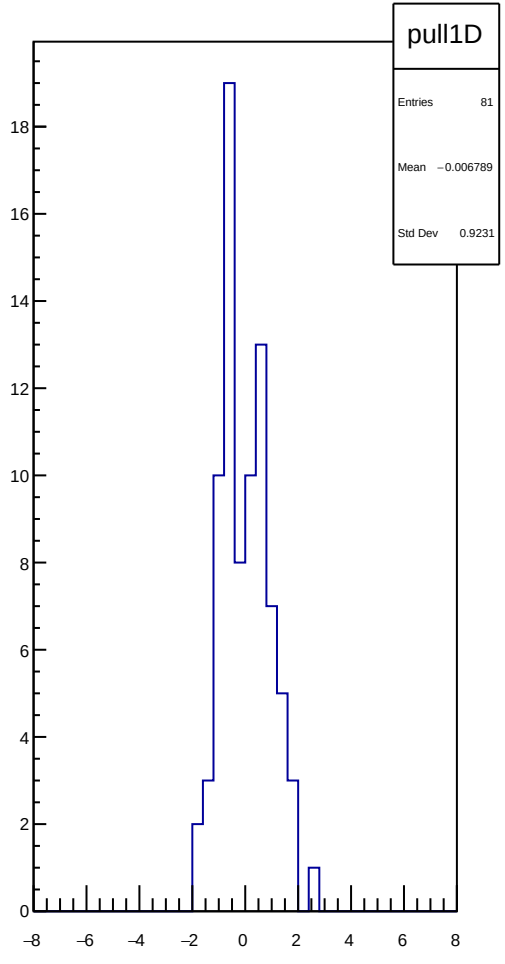

asym_us_agg_avg_rms vs run
χ² / ndf 1.583e+04 / 80
p0 1616 ± 1.3
2200
2000
1800
1600
1400
1200

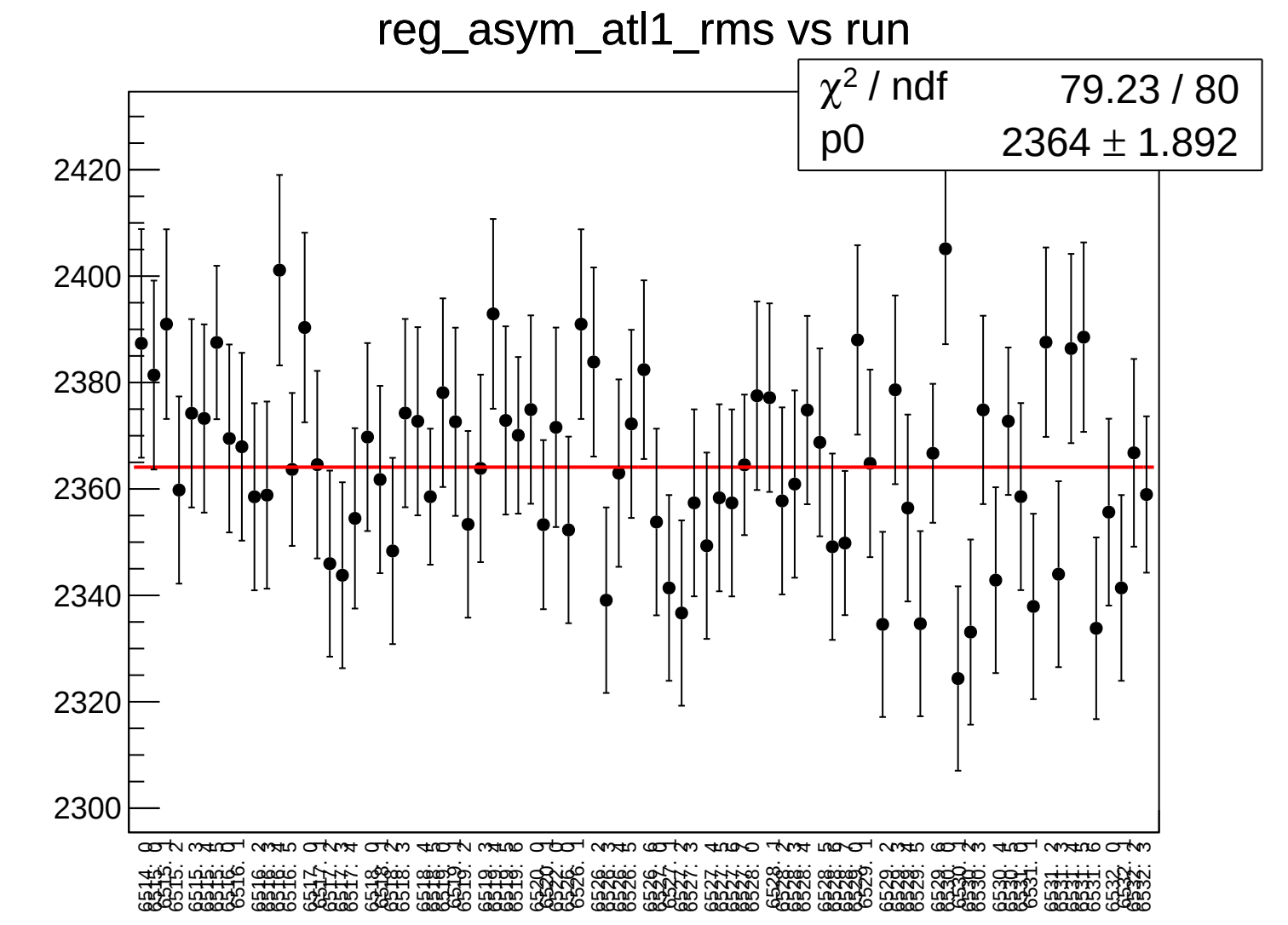

asym_us_agg_dd_mean vs run
χ² / ndf 80.35 / 80
p0 332.6 ± 1079
pull
Entries 81
Mean −1191
Std Dev 0

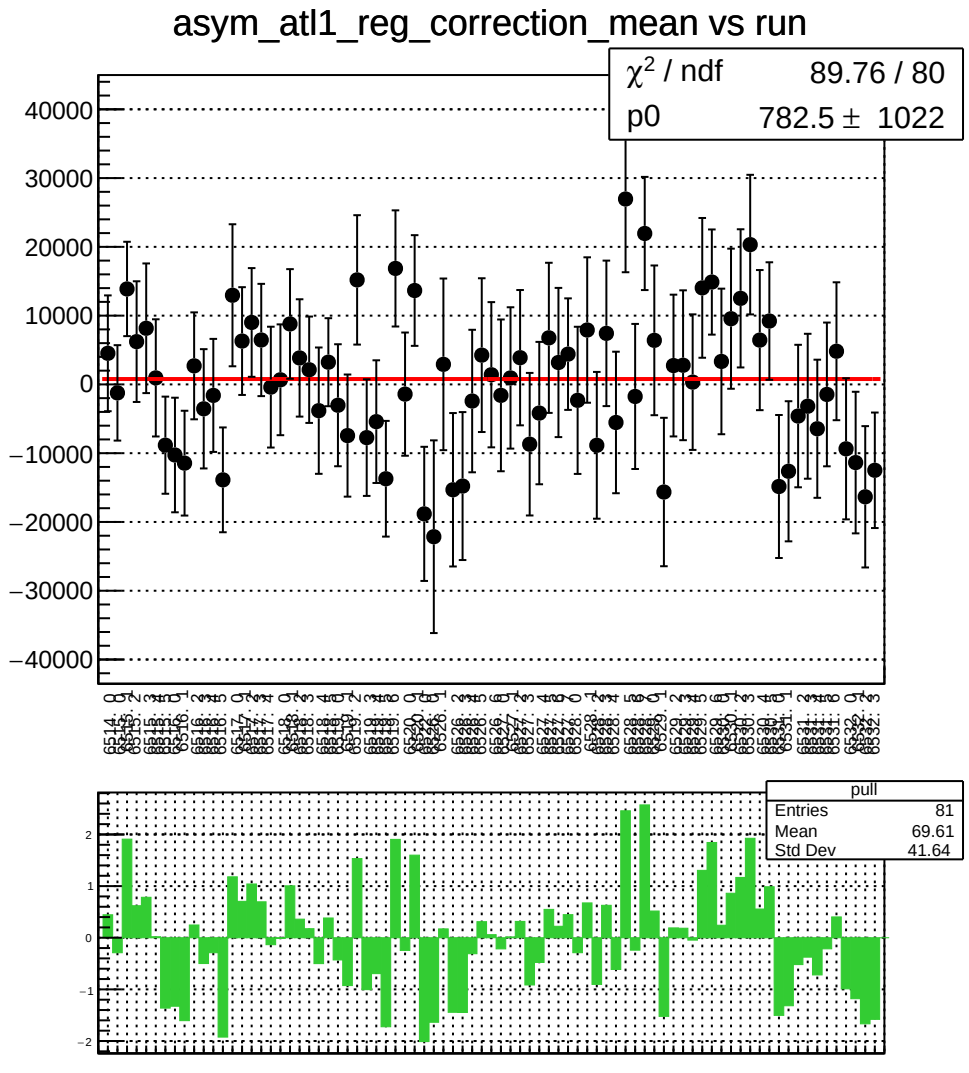

pull1D
Entries 81
Mean 0.002968
Std Dev 0.996

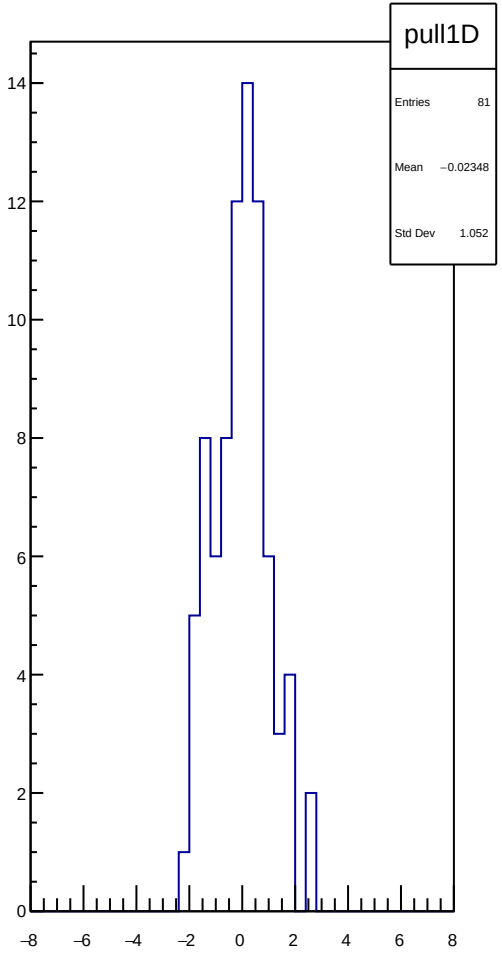

asym_us_agg_dd_rms vs run
χ² / ndf 3279 / 80
p0 952.2 ± 0.7629
1020
1000
980
960
940
920
900
880
860

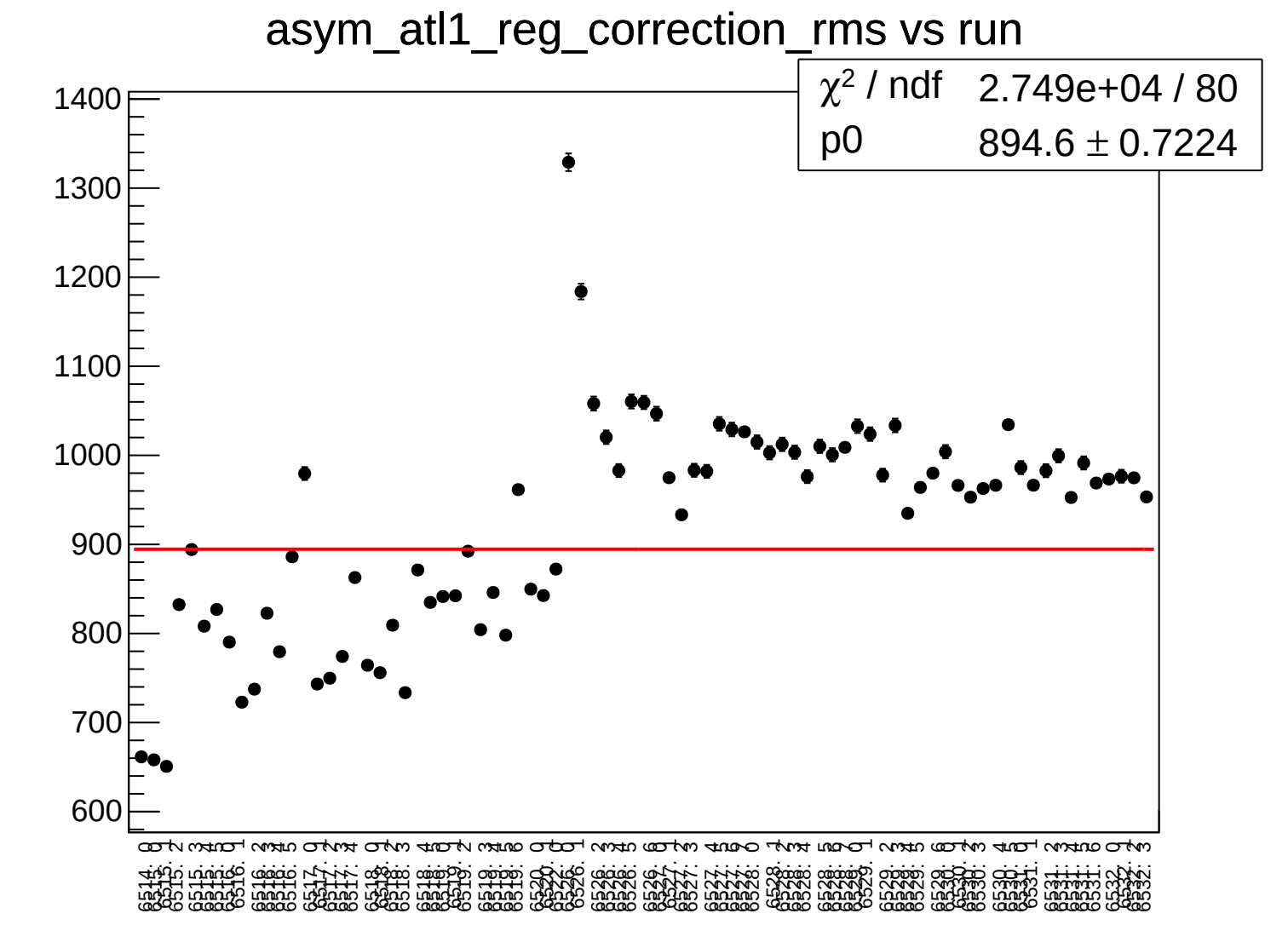

reg_asym_atl1_mean vs run
χ² / ndf 69.02 / 80
p0 6532 ± 2676
pull
Entries 81
Mean −204.7
Std Dev 0

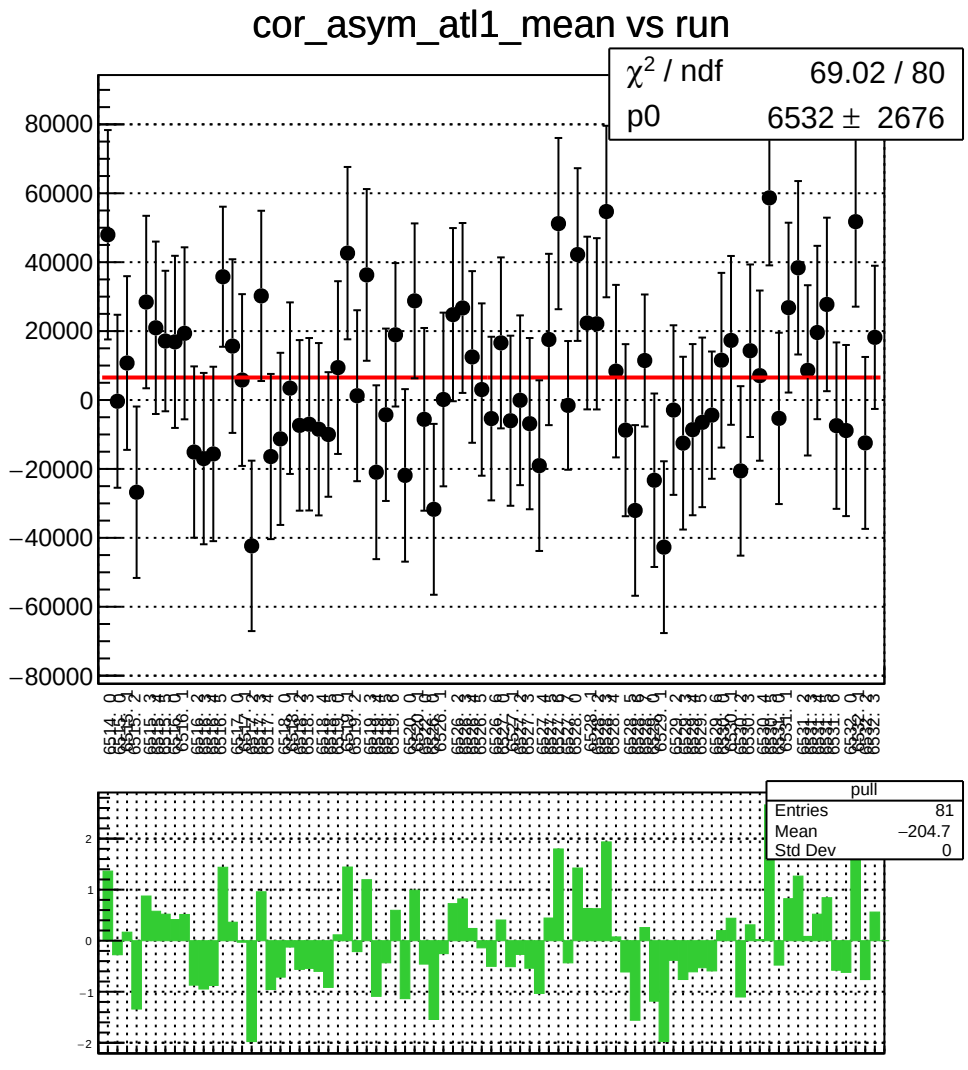

pull1D
Entries 81
Mean −0.006789
Std Dev 0.9231

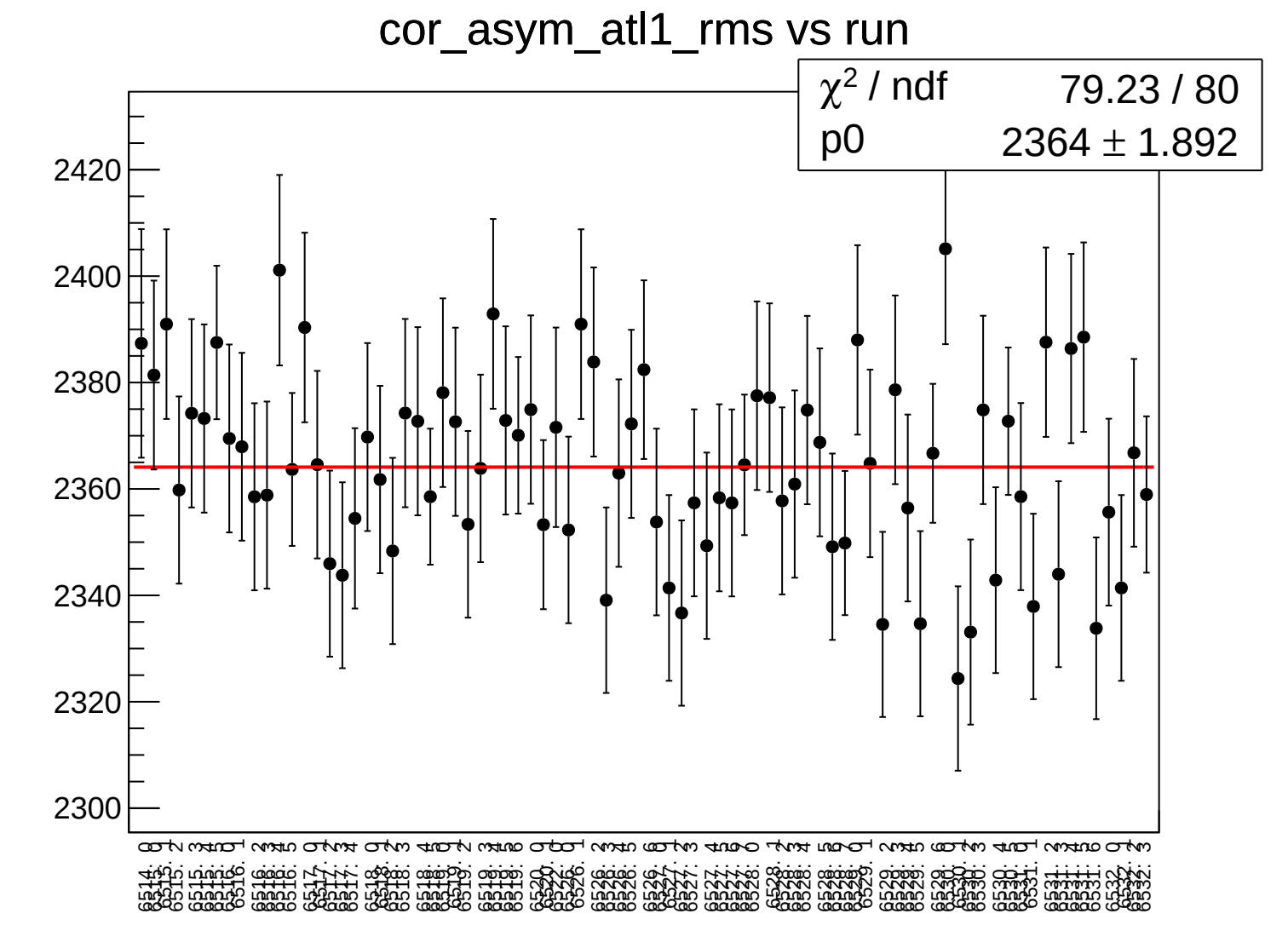

reg_asym_atl1_rms vs run
χ² / ndf 79.23 / 80
p0 2364 ± 1.892
2420
2400
2380
2360
2340
2320
2300

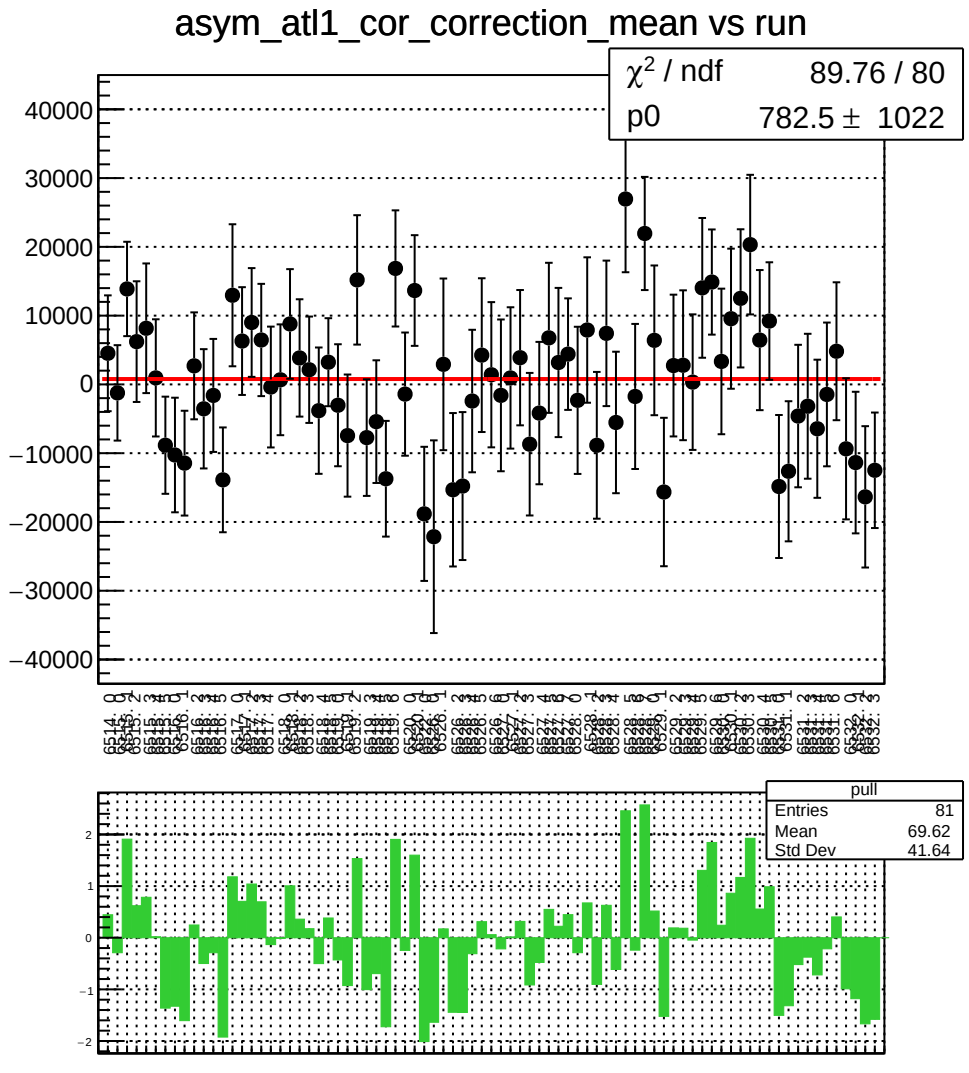

asym_atl1_reg_correction_mean vs run
χ² / ndf 89.76 / 80
p0 782.5 ± 1022
pull
Entries 81
Mean 69.61
Std Dev 41.64

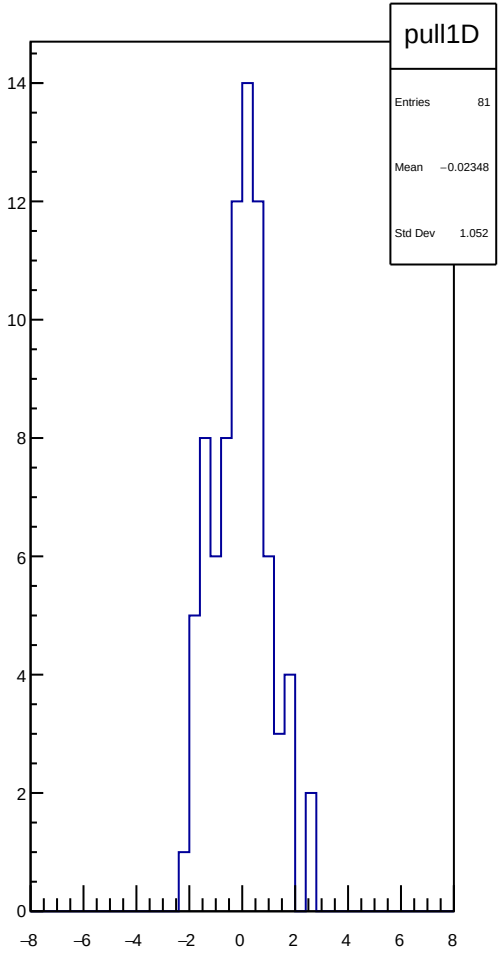

pull1D
Entries 81
Mean −0.02348
Std Dev 1.052

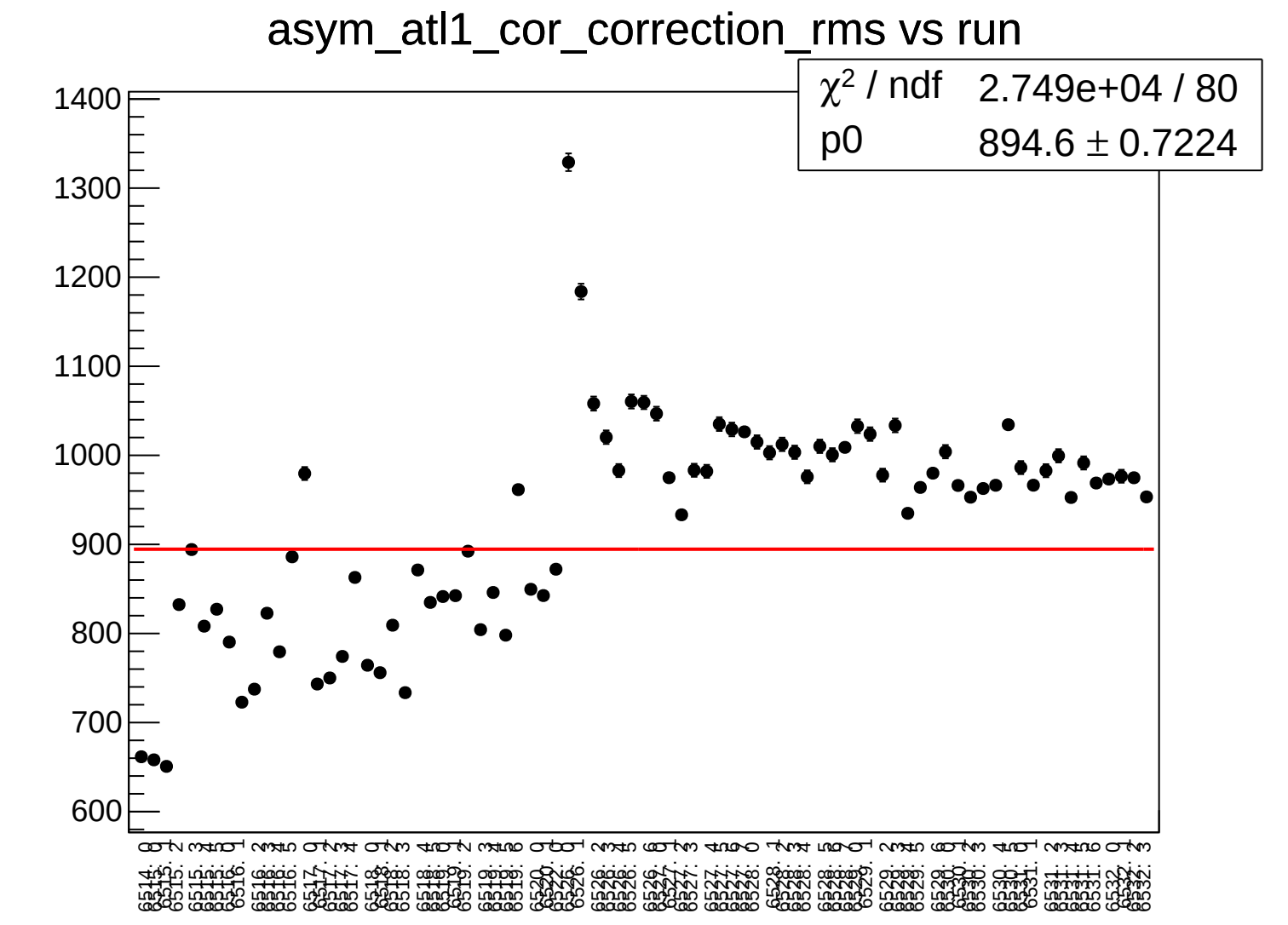

asym_atl1_reg_correction_rms vs run
χ² / ndf 2.749e+04 / 80
p0 894.6 ± 0.7224
1400
1300
1200
1100
1000
900
800
700
600

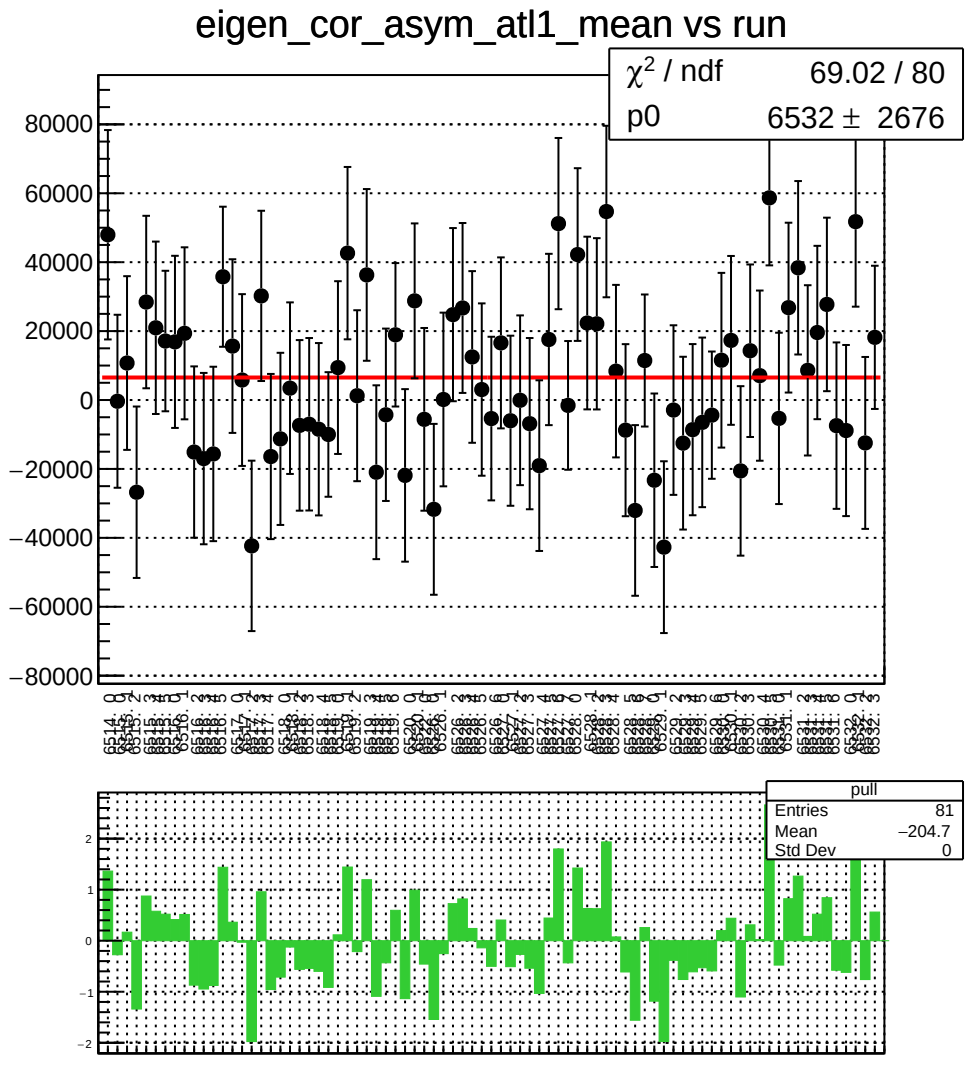

cor_asym_atl1_mean vs run
χ² / ndf 69.02 / 80
p0 6532 ± 2676
pull
Entries 81
Mean −204.7
Std Dev 0
pull1D
Entries 81
Mean −0.006788
Std Dev 0.9231

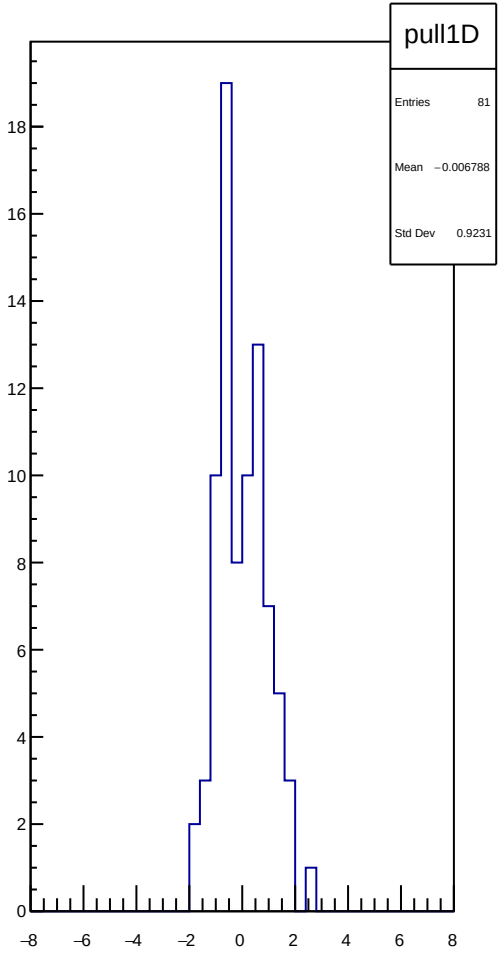

cor_asym_atl1_rms vs run
χ² / ndf 79.23 / 80
p0 2364 ± 1.892
2420
2400
2380
2360
2340
2320
2300

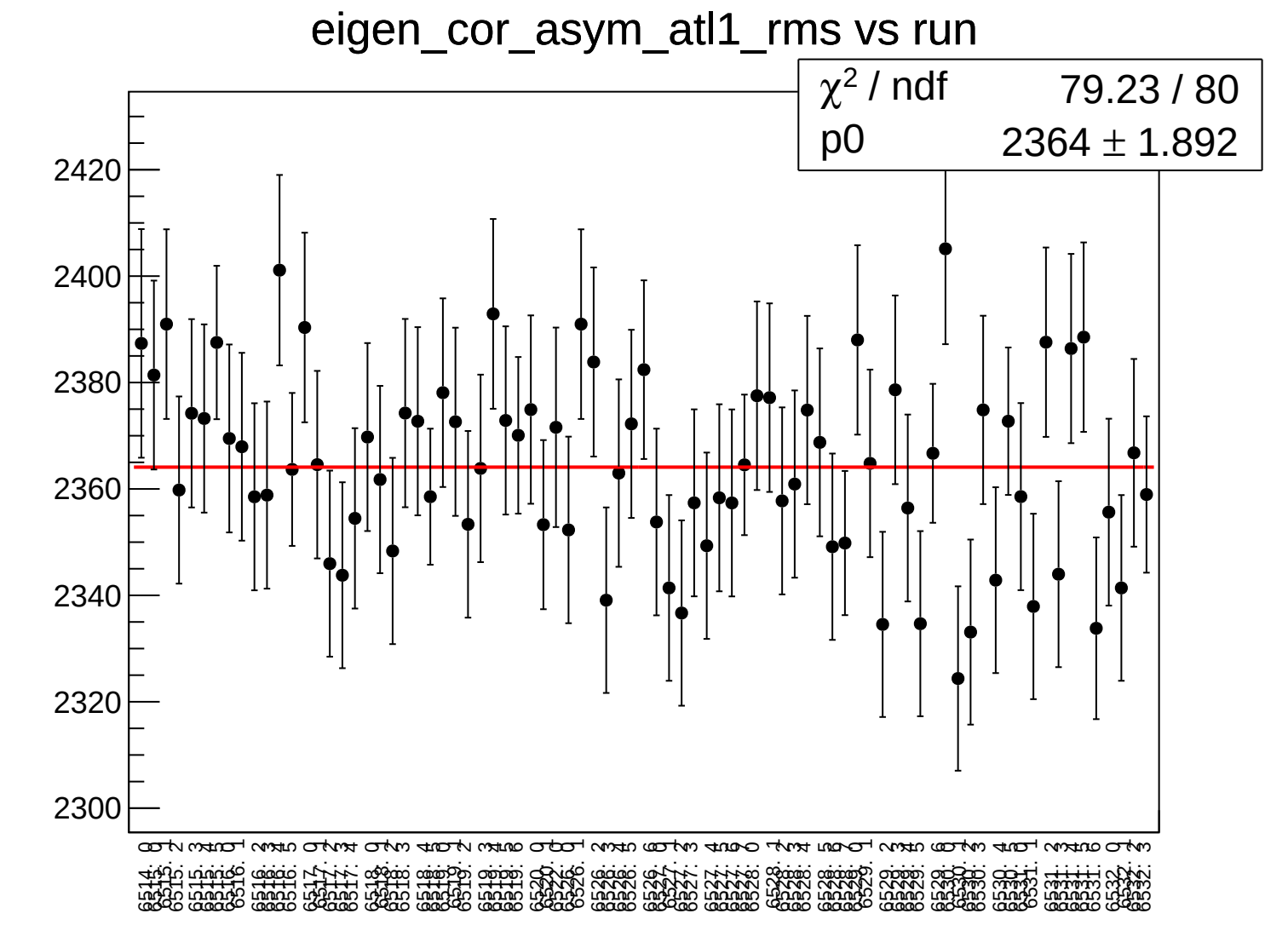

asym_atl1_cor_correction_mean vs run
χ² / ndf 89.76 / 80
p0 782.5 ± 1022
pull
Entries 81
Mean 69.62
Std Dev 41.64

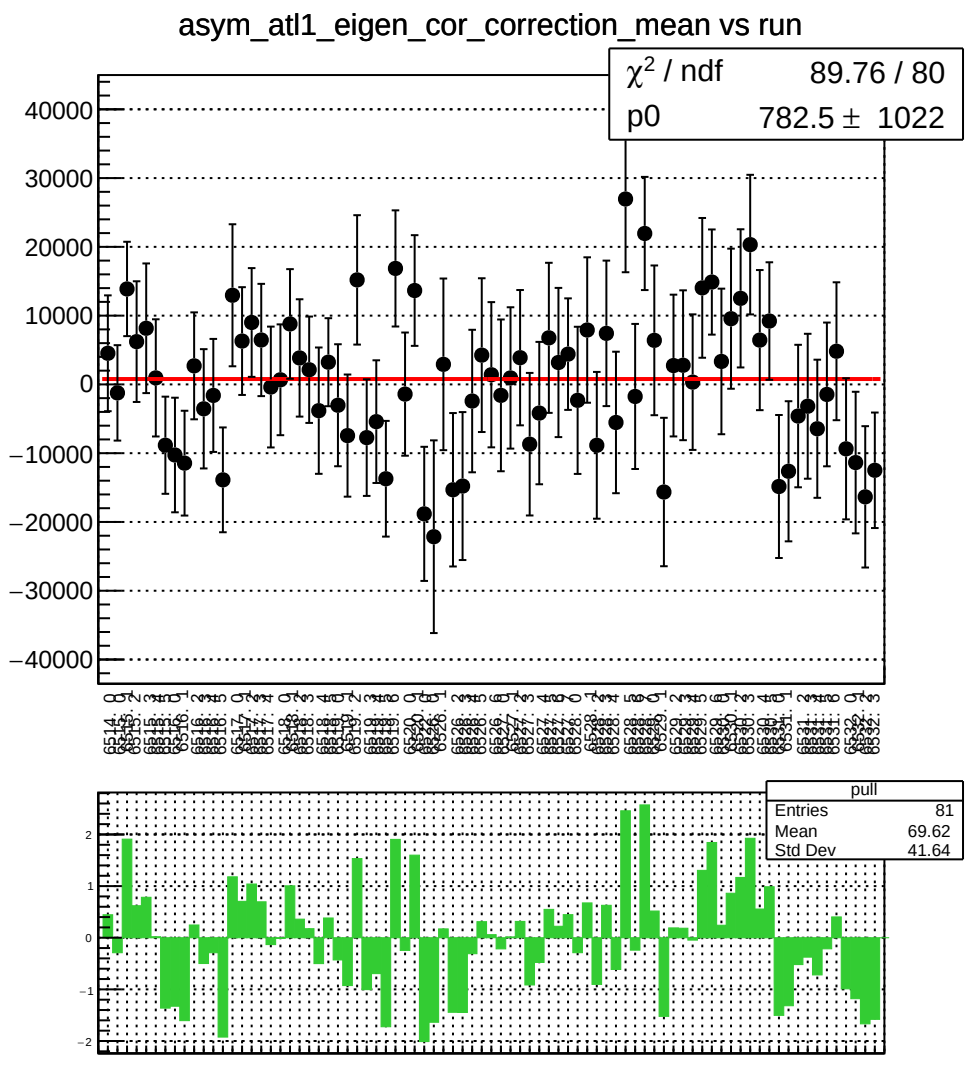

pull1D
Entries 81
Mean −0.02348
Std Dev 1.052

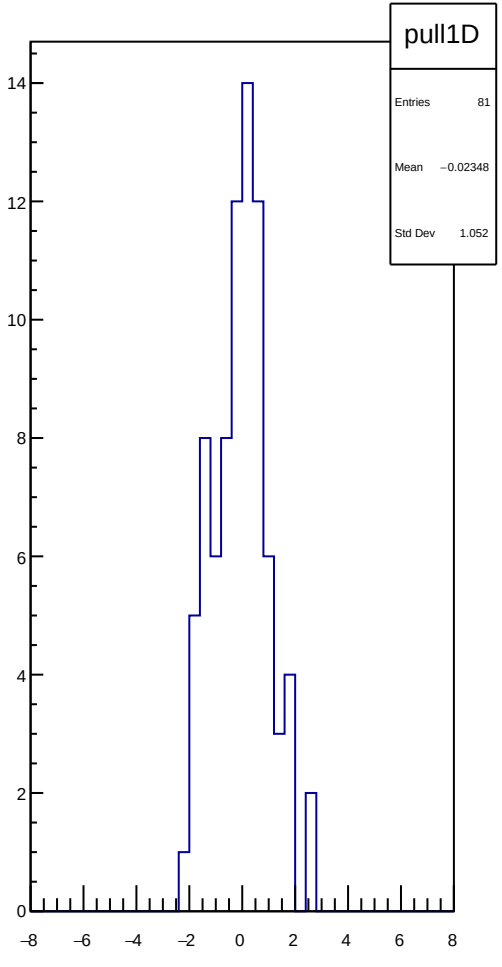

asym_atl1_cor_correction_rms vs run
χ² / ndf 2.749e+04 / 80
p0 894.6 ± 0.7224
1400
1300
1200
1100
1000
900
800
700
600

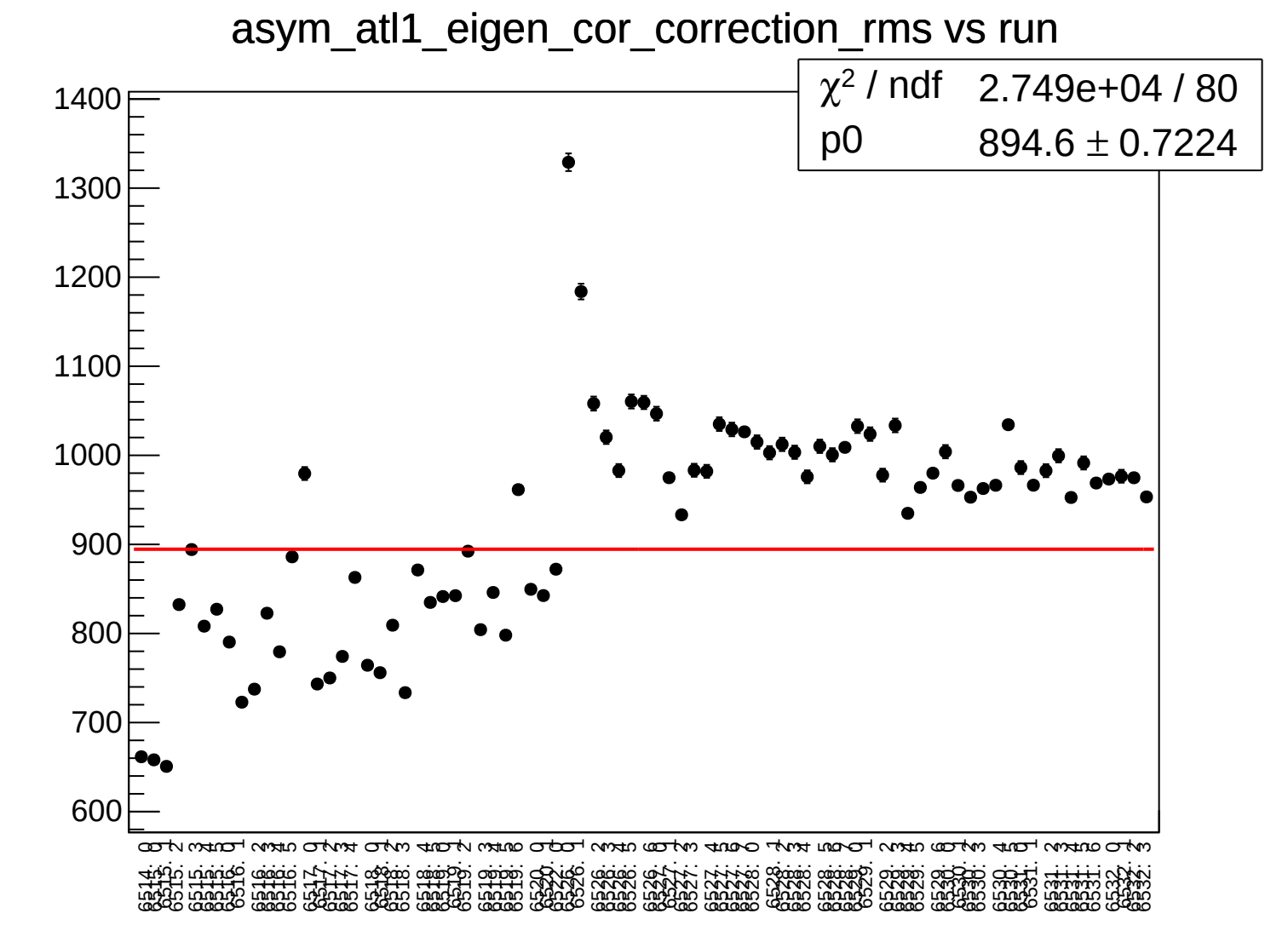

eigen_cor_asym_atl1_mean vs run
χ² / ndf 69.02 / 80
p0 6532 ± 2676
pull
Entries 81
Mean −204.7
Std Dev 0

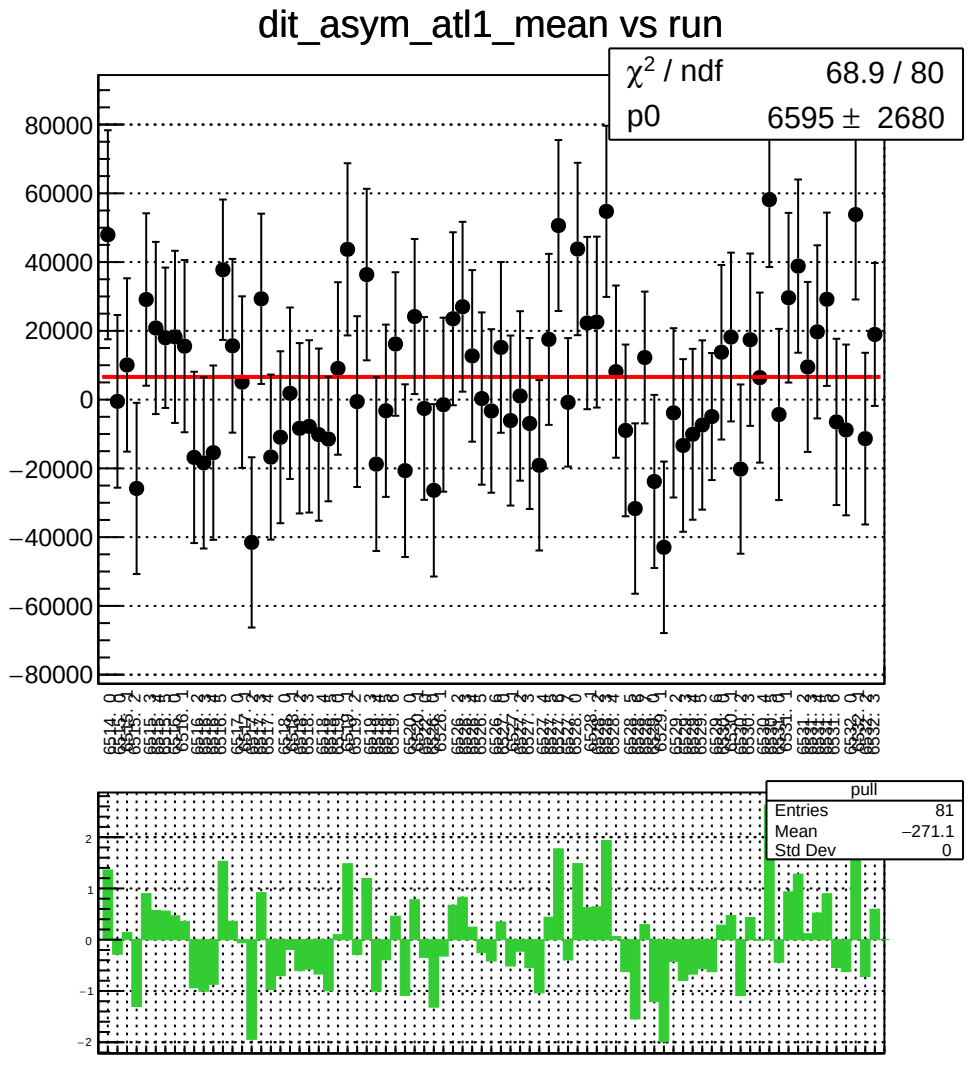

pull1D
Entries 81
Mean −0.006788
Std Dev 0.9231

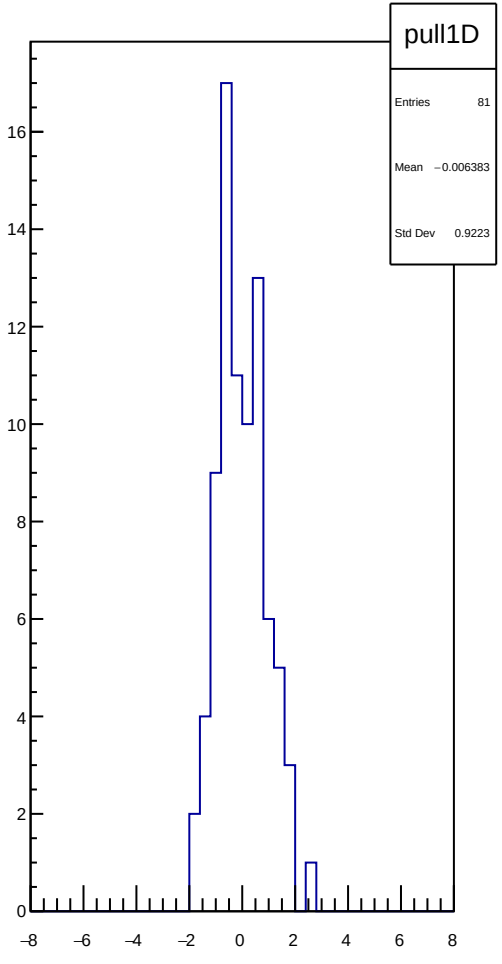

eigen_cor_asym_atl1_rms vs run
χ² / ndf 79.23 / 80
p0 2364 ± 1.892
2420
2400
2380
2360
2340
2320
2300

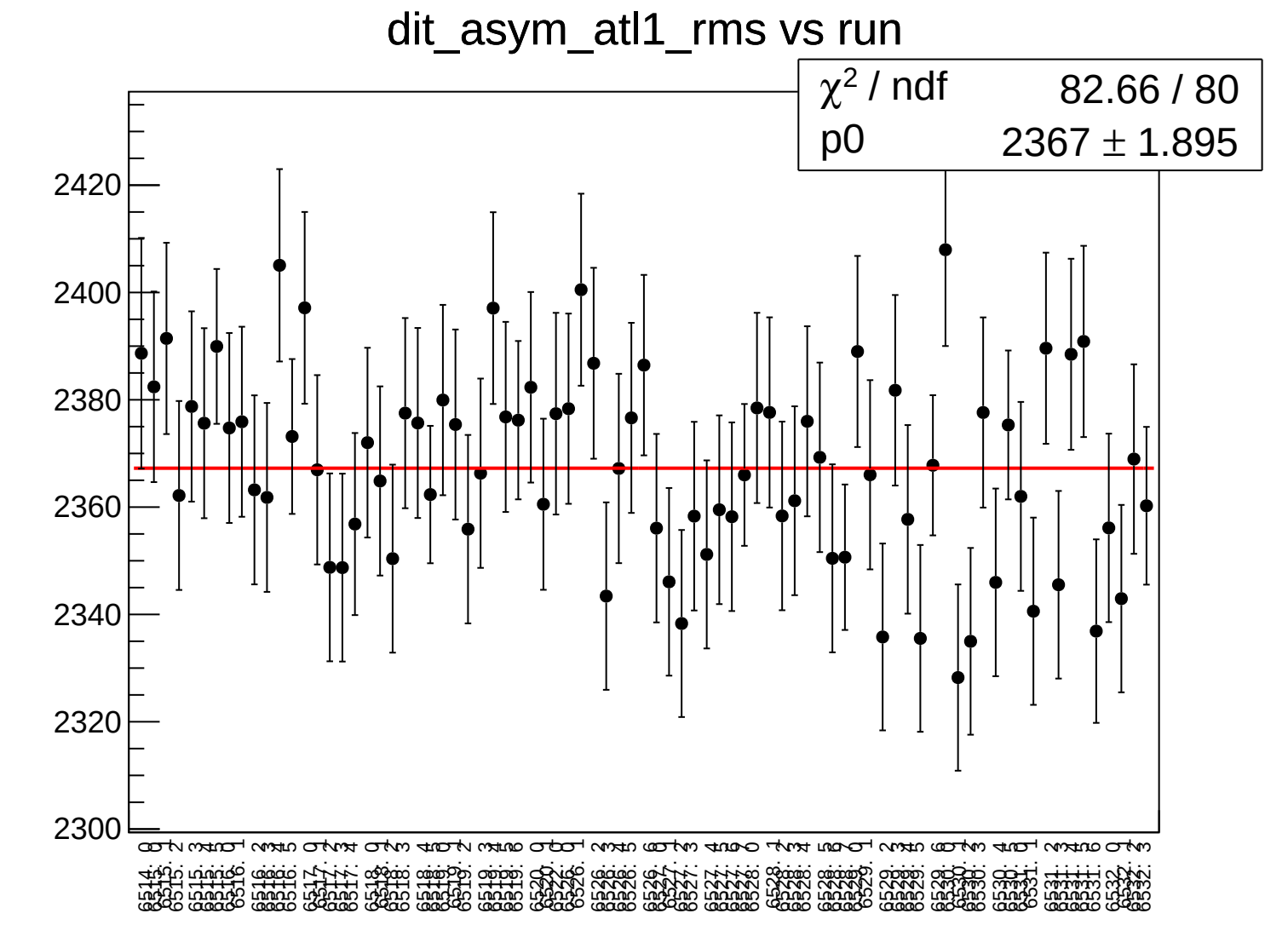

asym_atl1_eigen_cor_correction_mean vs run
χ² / ndf 89.76 / 80
p0 782.5 ± 1022
pull
Entries 81
Mean 69.62
Std Dev 41.64

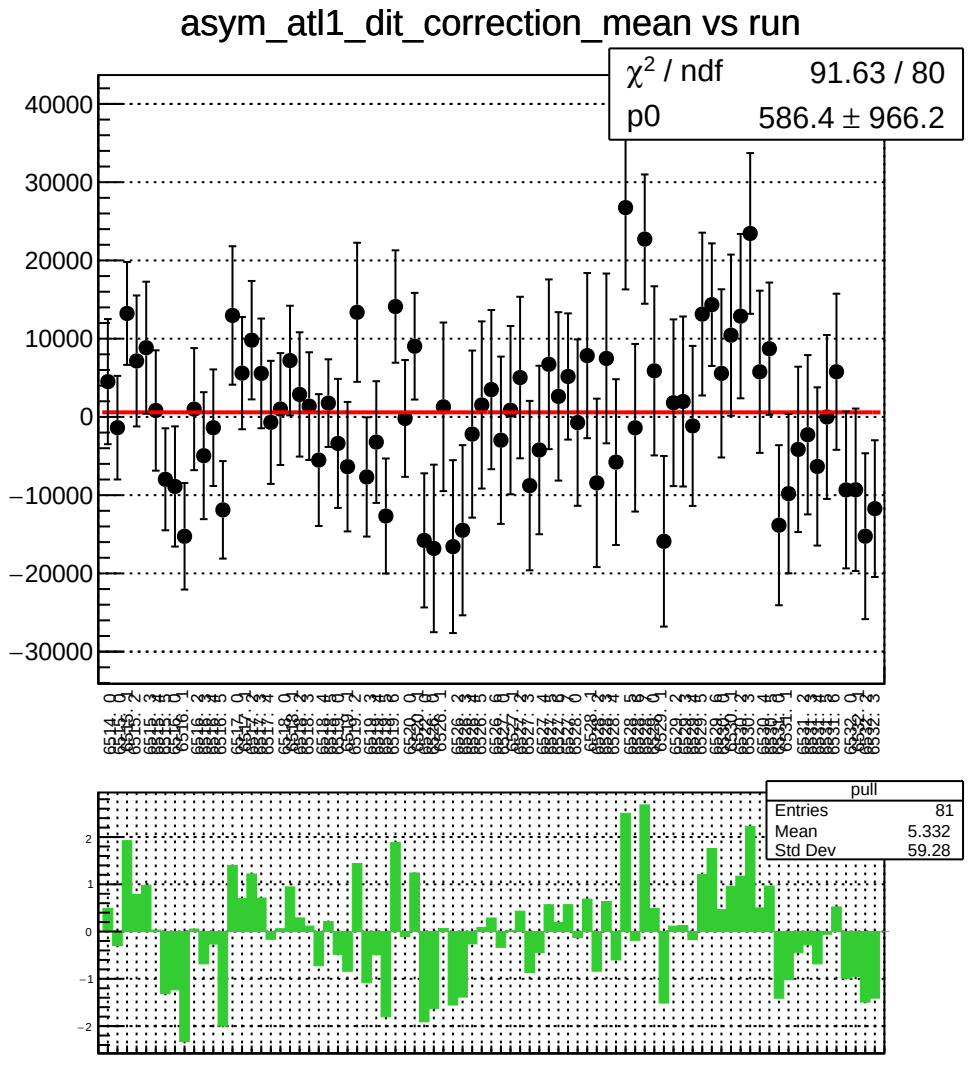

pull1D
Entries 81
Mean −0.02348
Std Dev 1.052

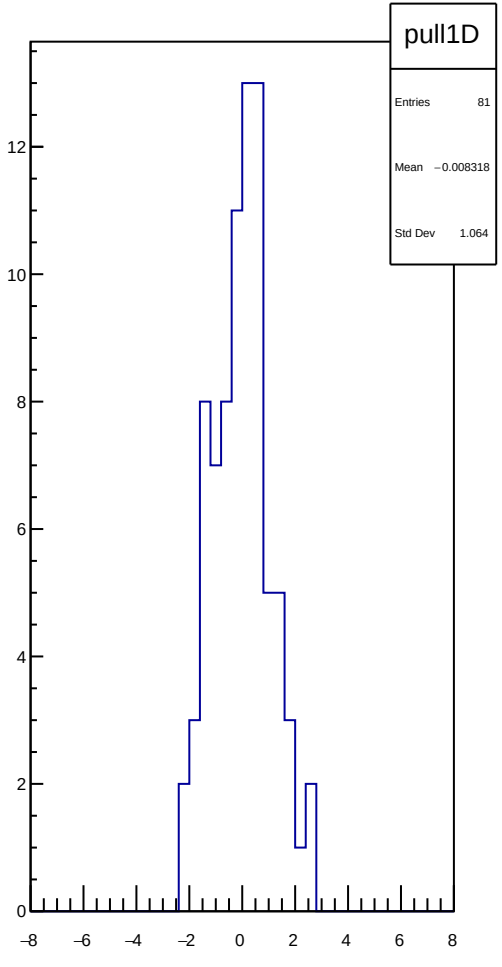

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 2.749e+04 / 80
p0 894.6 ± 0.7224
1400
1300
1200
1100
1000
900
800
700
600

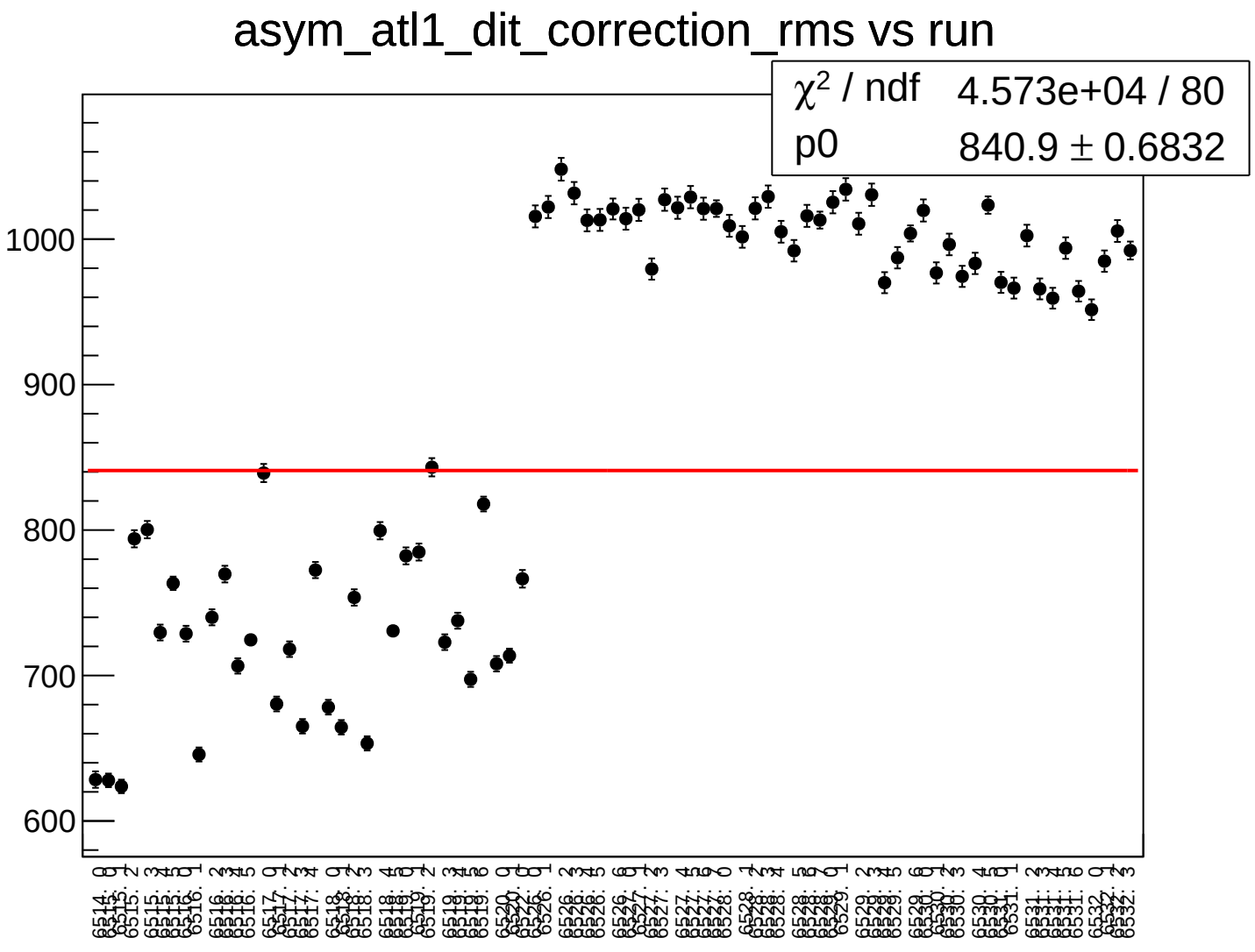

dit_asym_atl1_mean vs run
χ² / ndf 68.9 / 80
p0 6595 ± 2680
pull
Entries 81
Mean −271.1
Std Dev 0

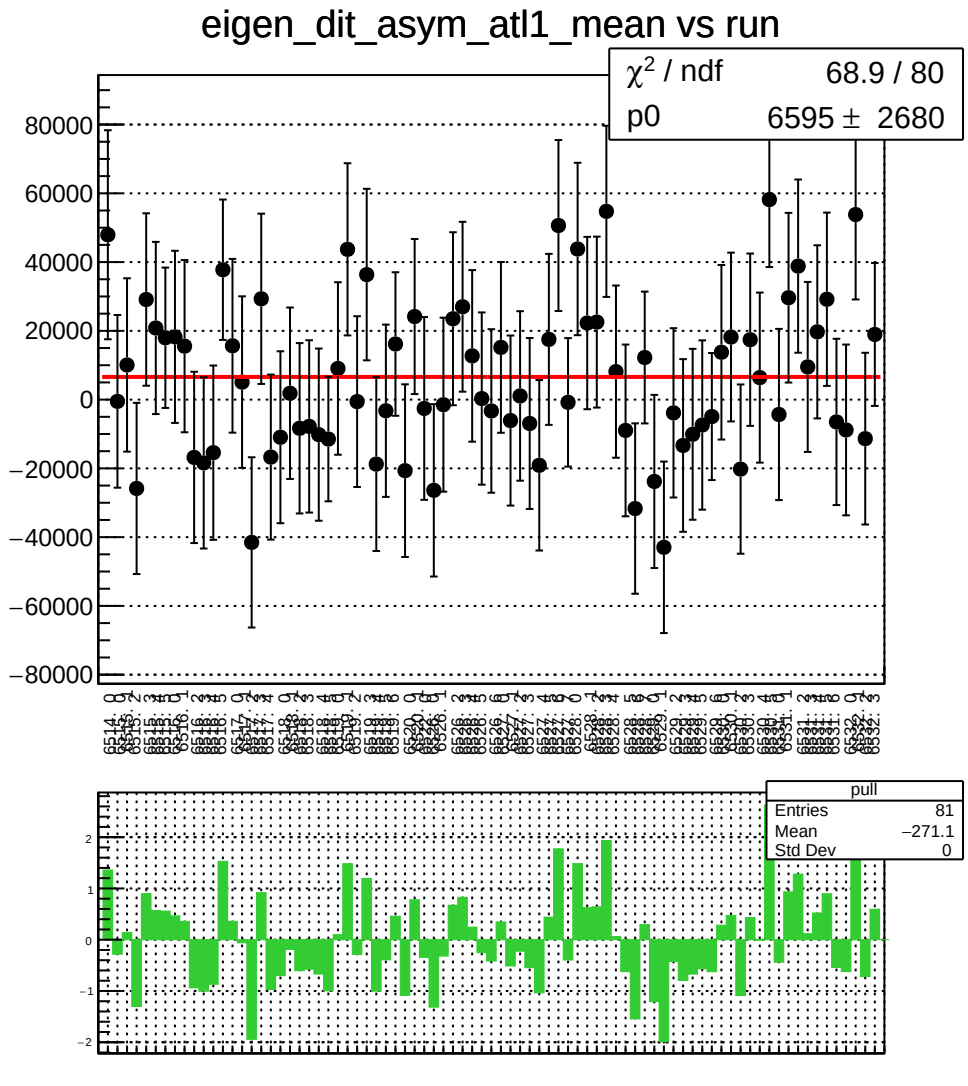

pull1D
Entries 81
Mean −0.006383
Std Dev 0.9223

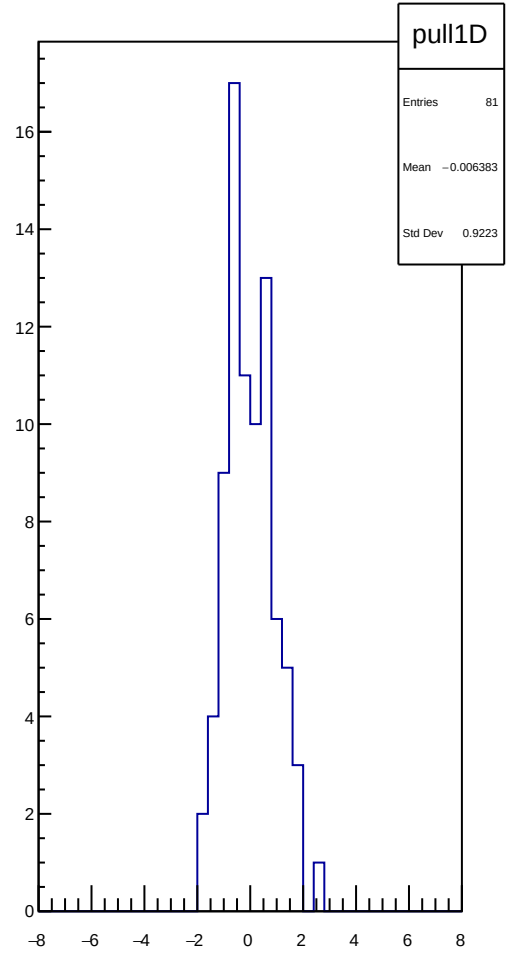

dit_asym_atl1_rms vs run
χ² / ndf 82.66 / 80
p0 2367 ± 1.895
2420
2400
2380
2360
2340
2320
2300

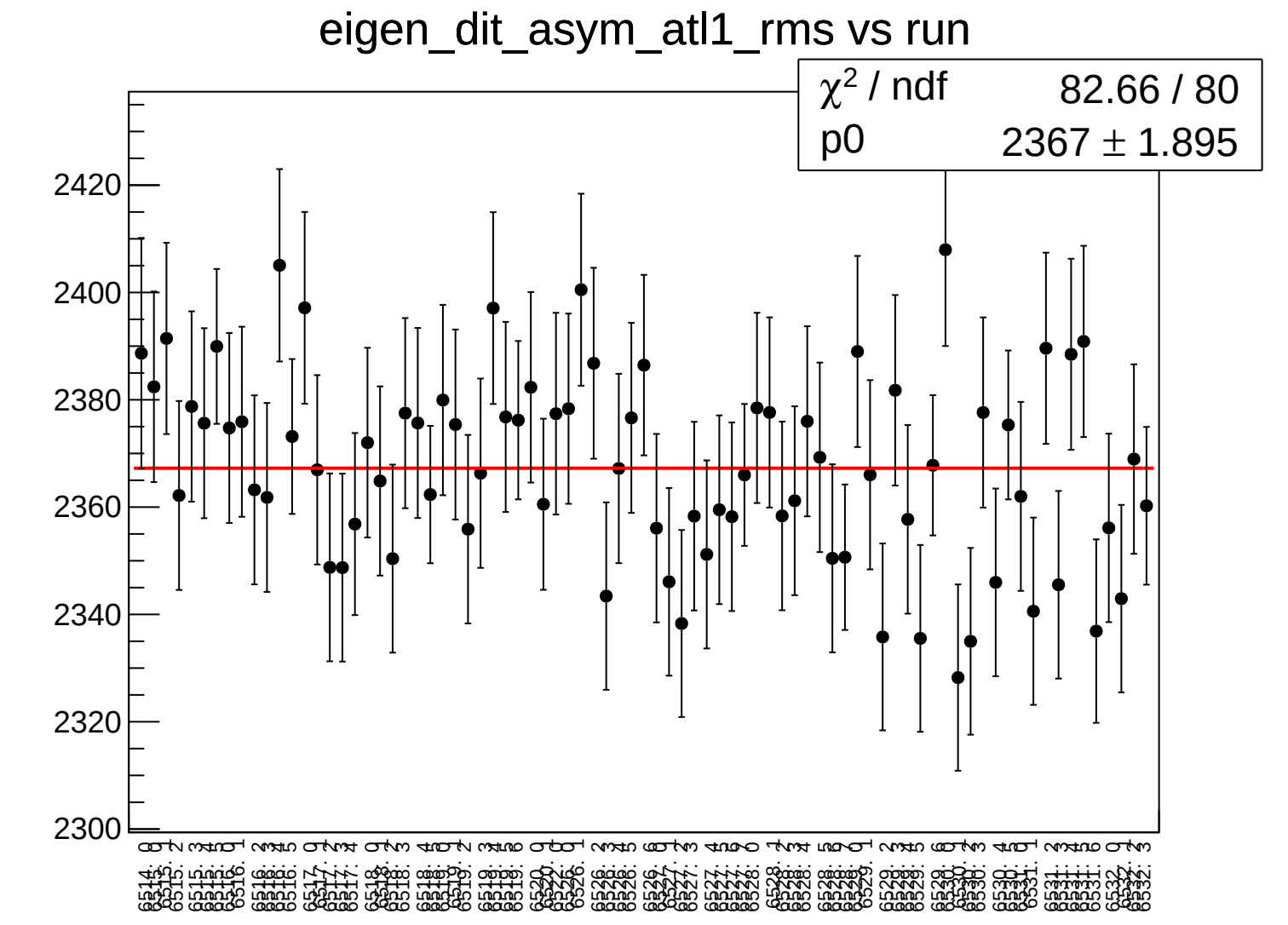

asym_atl1_dit_correction_mean vs run
χ² / ndf 91.63 / 80
p0 586.4 ± 966.2
pull
Entries 81
Mean 5.332
Std Dev 59.28

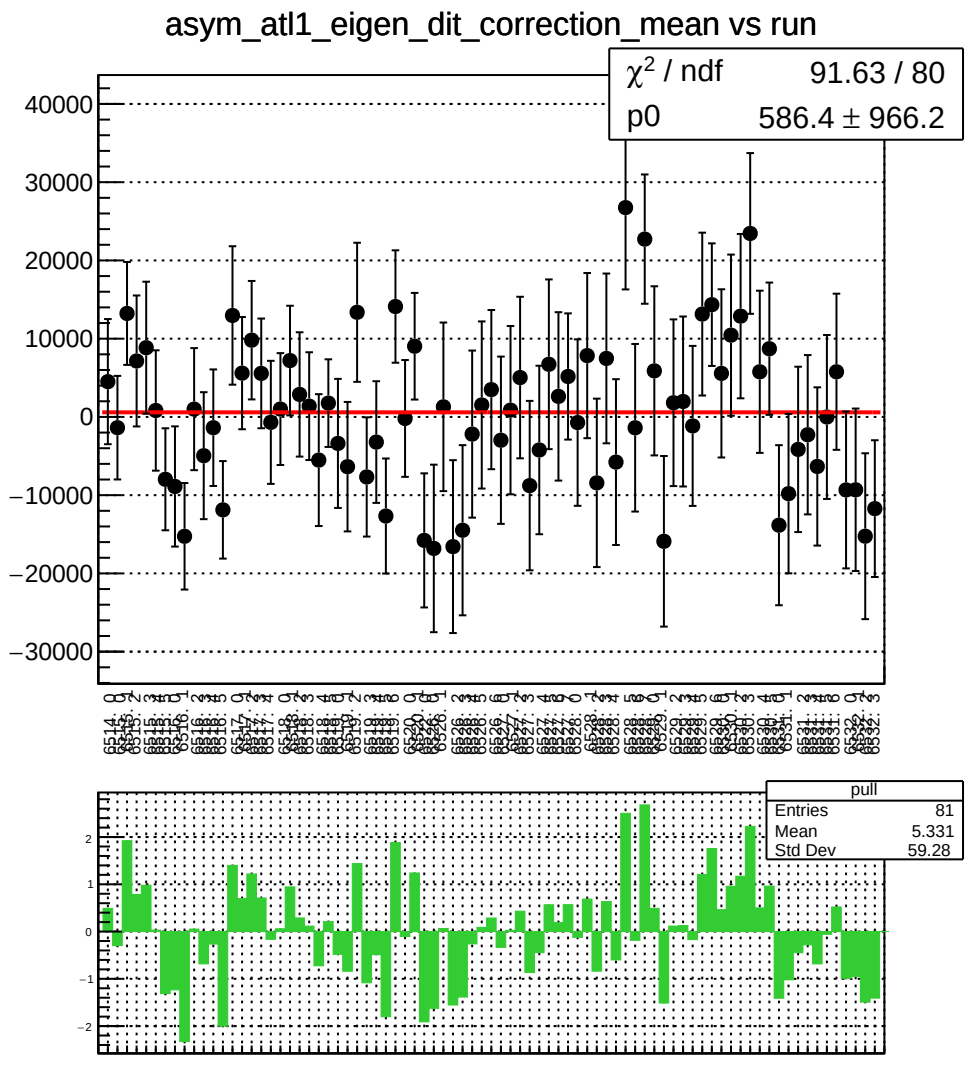

pull1D
Entries 81
Mean −0.008318
Std Dev 1.064

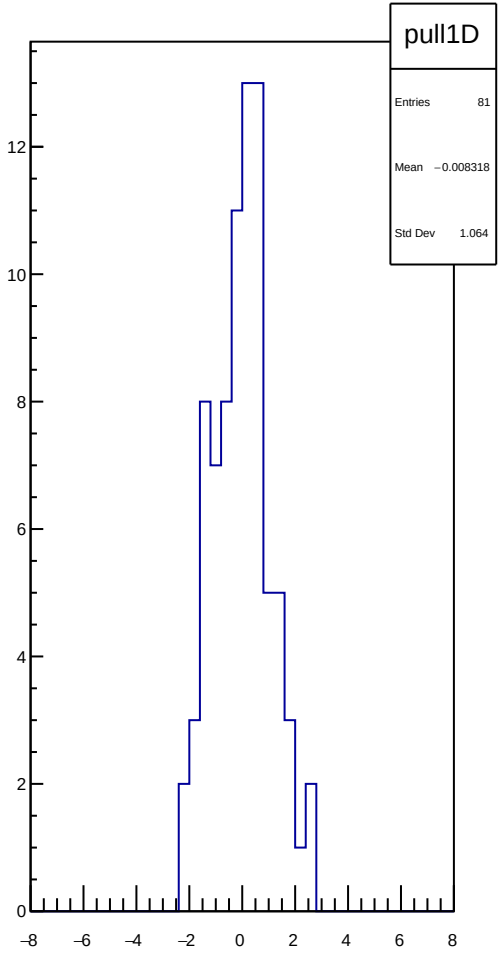

asym_atl1_dit_correction_rms vs run
χ² / ndf 4.573e+04 / 80
p0 840.9 ± 0.6832
1000
900
800
700
600

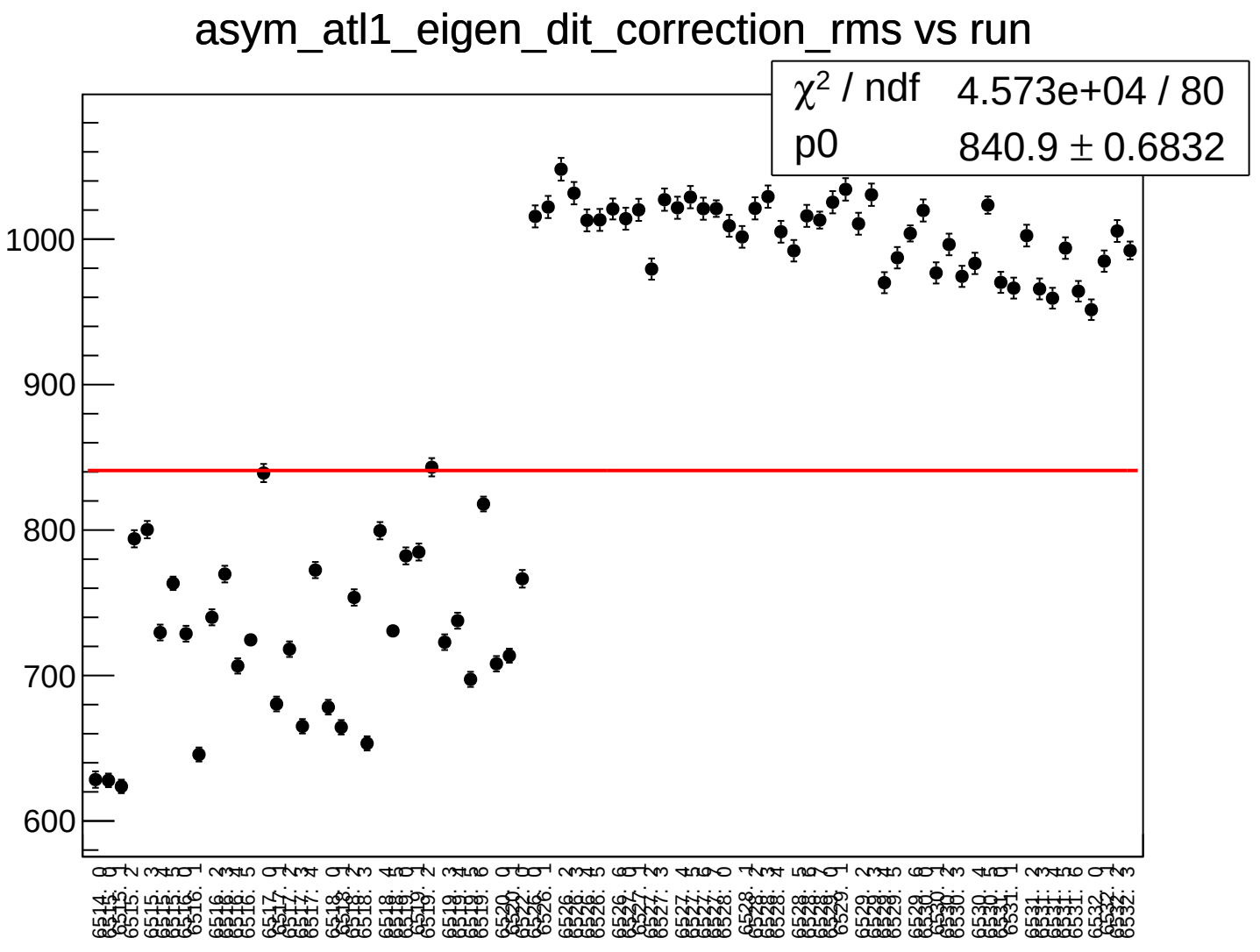

eigen_dit_asym_atl1_mean vs run
χ² / ndf 68.9 / 80
p0 6595 ± 2680
pull
Entries 81
Mean −271.1
Std Dev 0

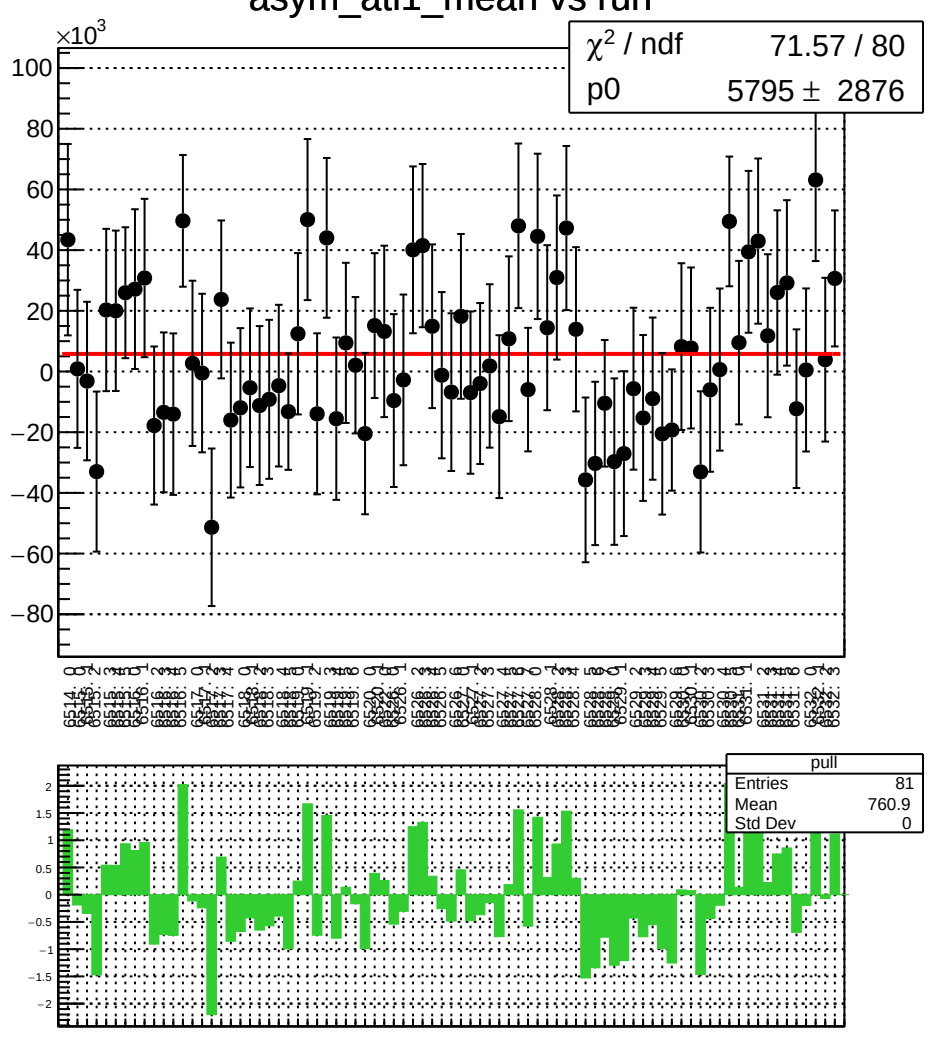

pull1D
Entries 81
Mean −0.006383
Std Dev 0.9223

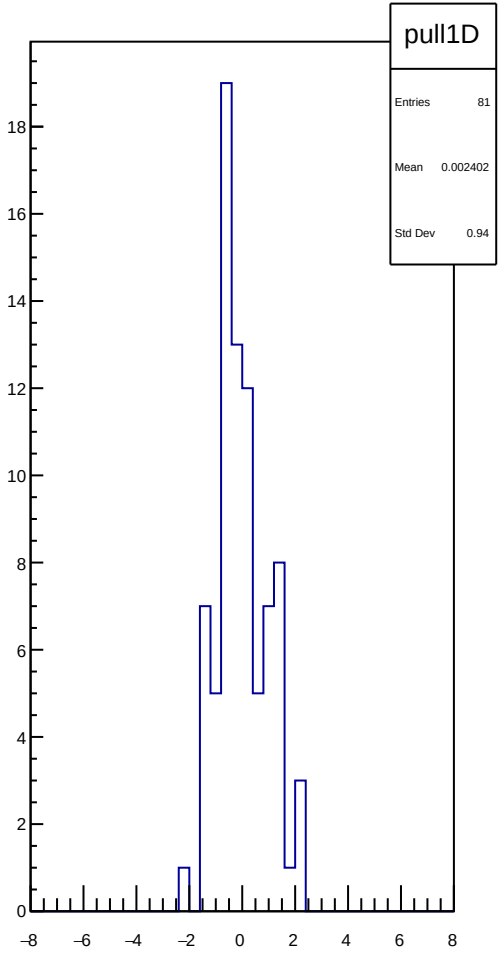

eigen_dit_asym_atl1_rms vs run
χ^2 / ndf 82.66 / 80
p0 2367 ± 1.895
2420
2400
2380
2360
2340
2320
2300

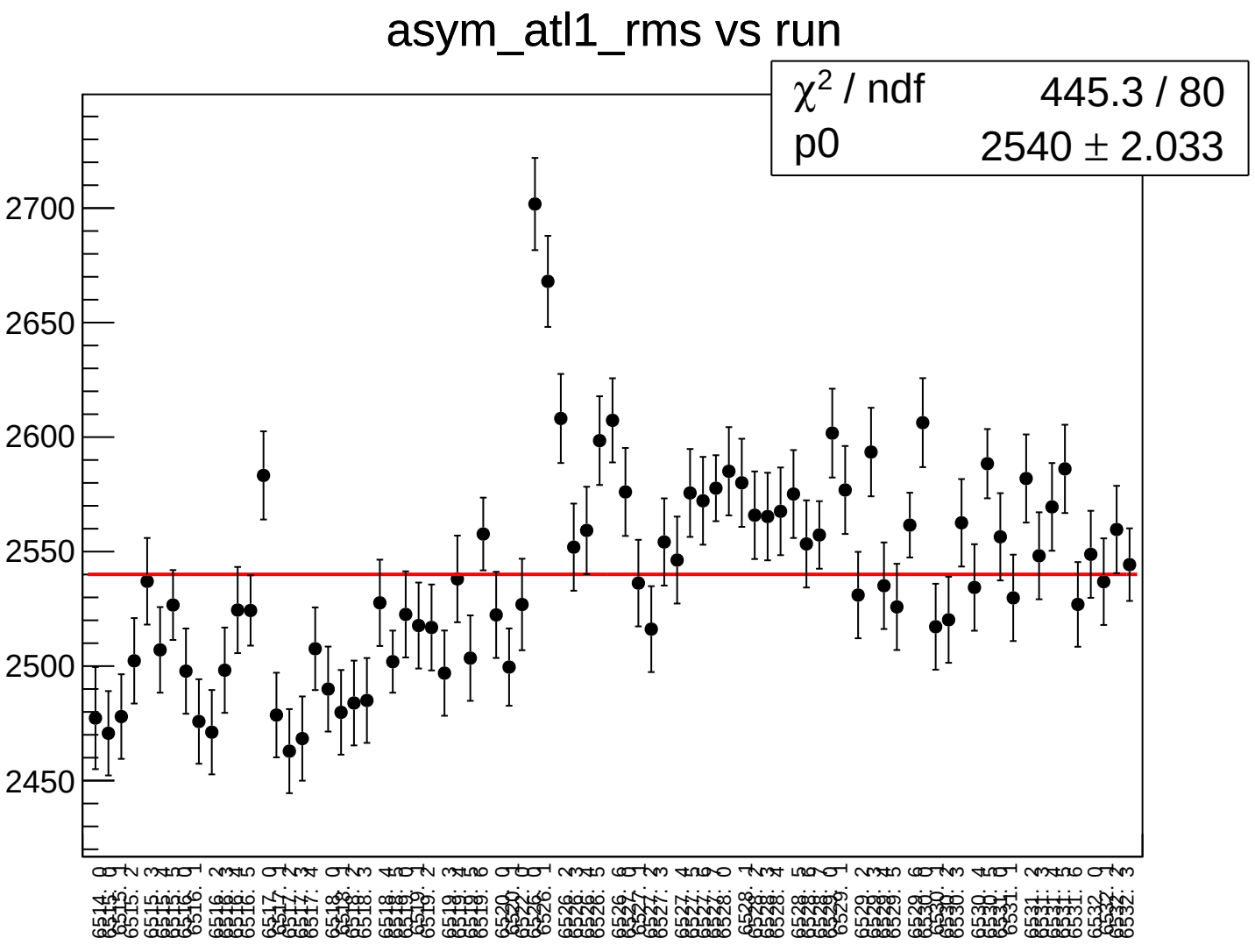

asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 91.63 / 80
p0 586.4 ± 966.2
pull
Entries 81
Mean 5.331
Std Dev 59.28

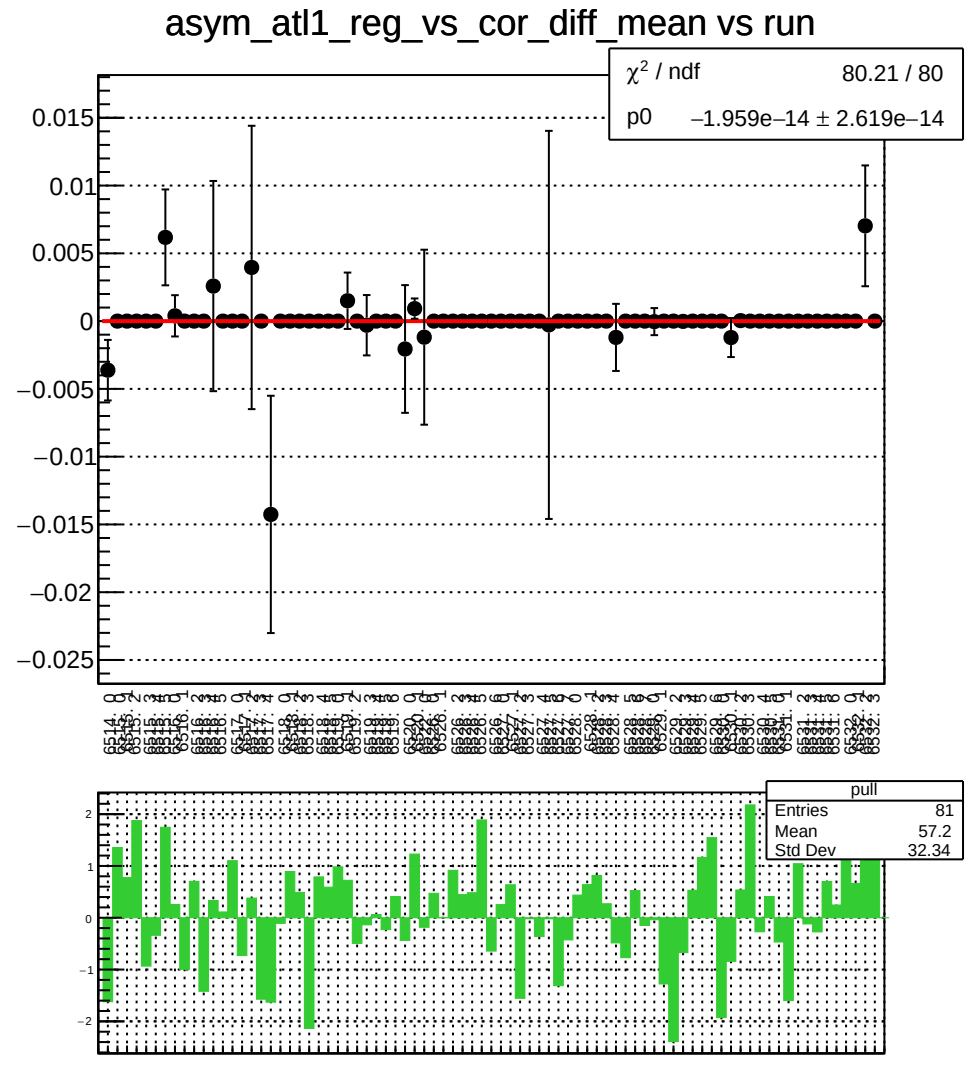

pull1D
Entries 81
Mean −0.008318
Std Dev 1.064

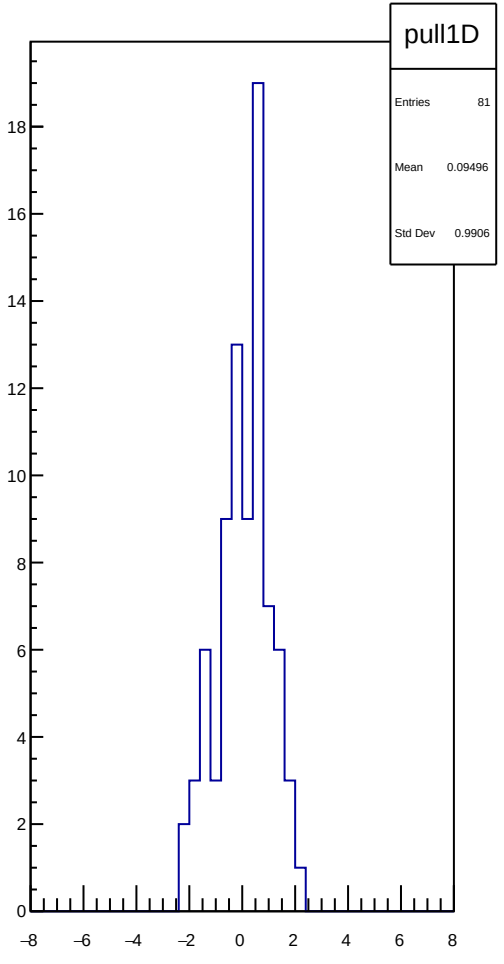

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 4.573e+04 / 80
p0 840.9 ± 0.6832
1000
900
800
700
600

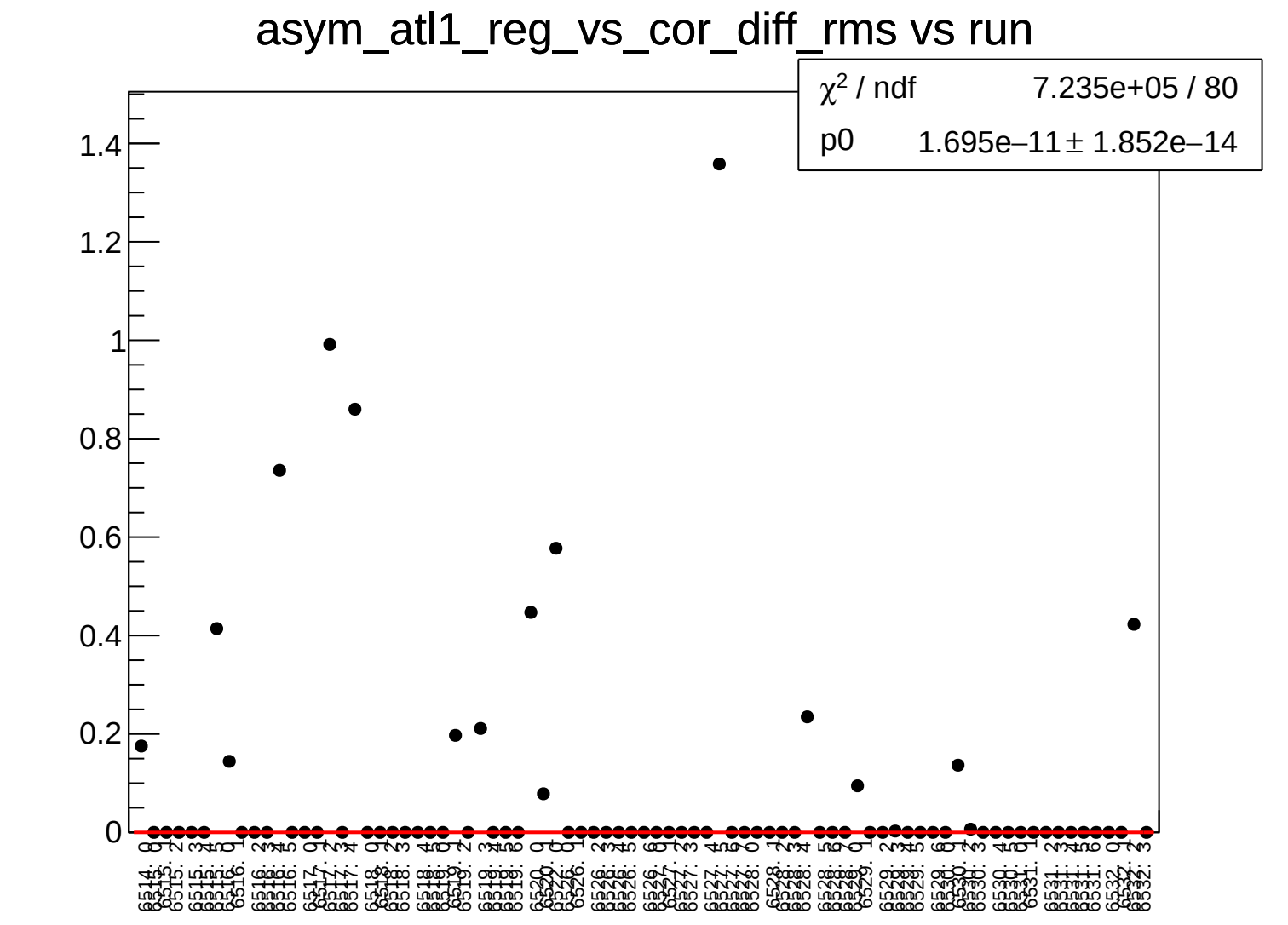

asym_atl1_mean vs run
×10^3
χ^2 / ndf 71.57 / 80
p0 5795 ± 2876
pull
Entries 81
Mean 760.9
Std Dev 0

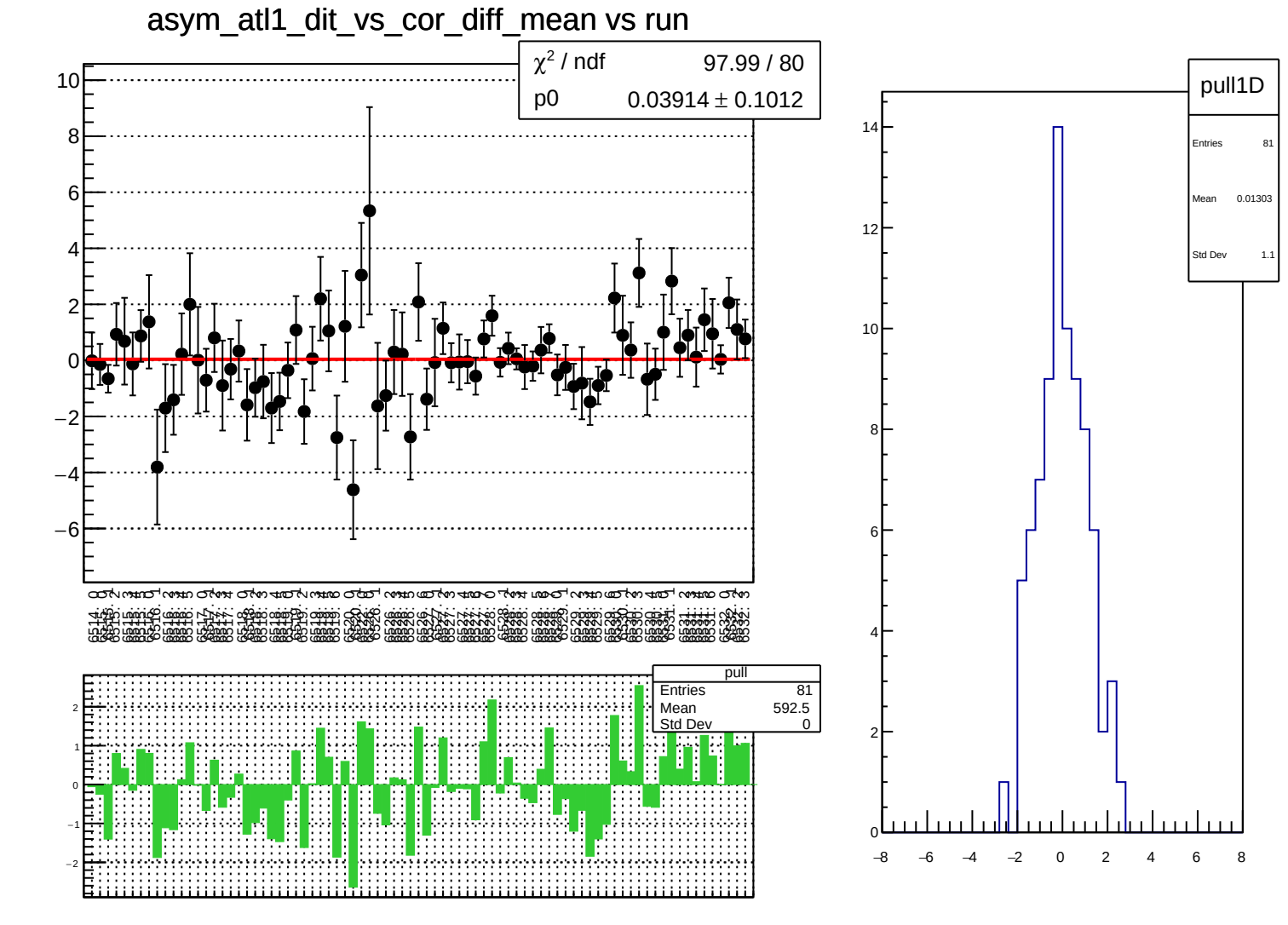

pull1D
Entries 81
Mean 0.002402
Std Dev 0.94

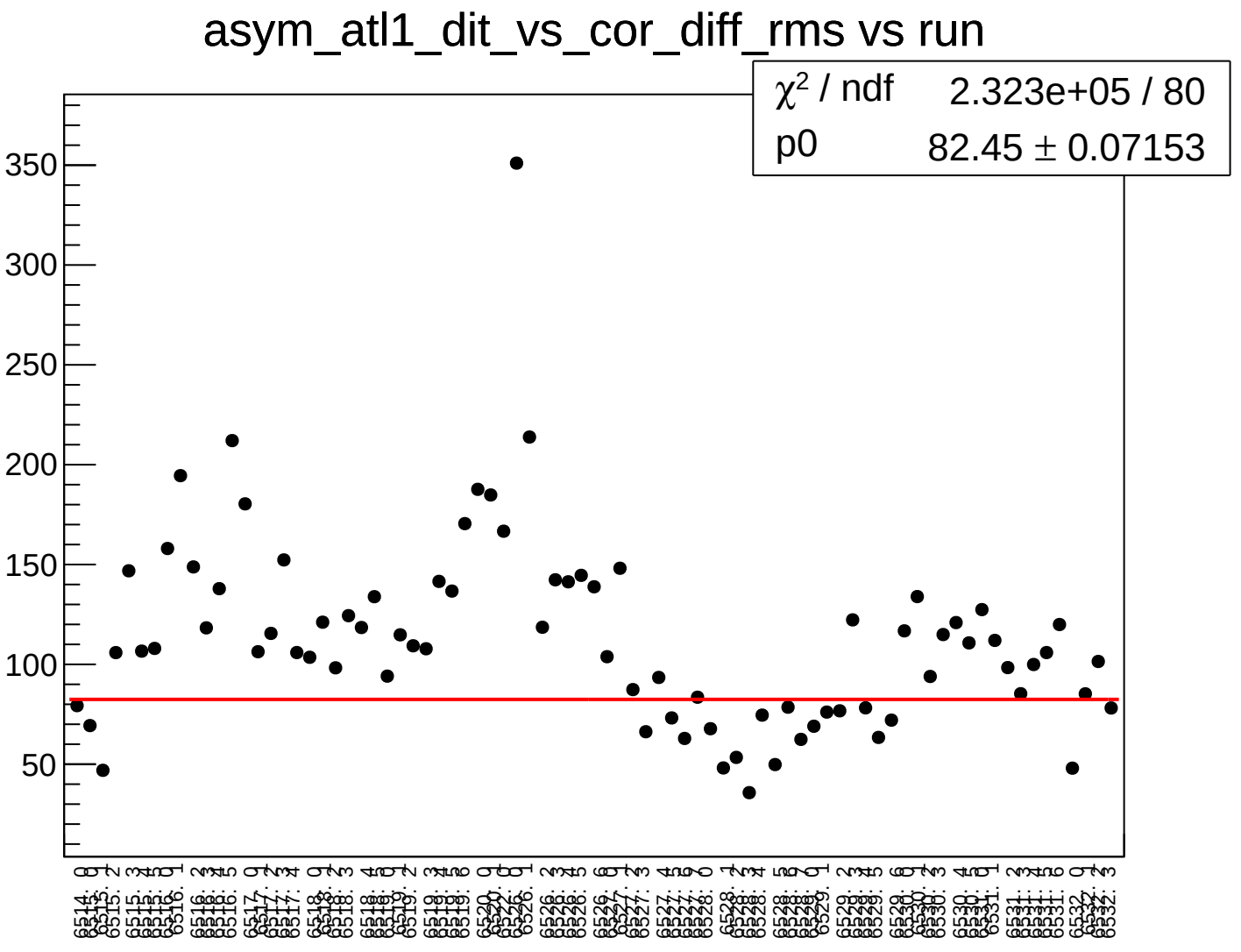

asym_atl1_rms vs run
χ² / ndf 445.3 / 80
p0 2540 ± 2.033
2700
2650
2600
2550
2500
2450

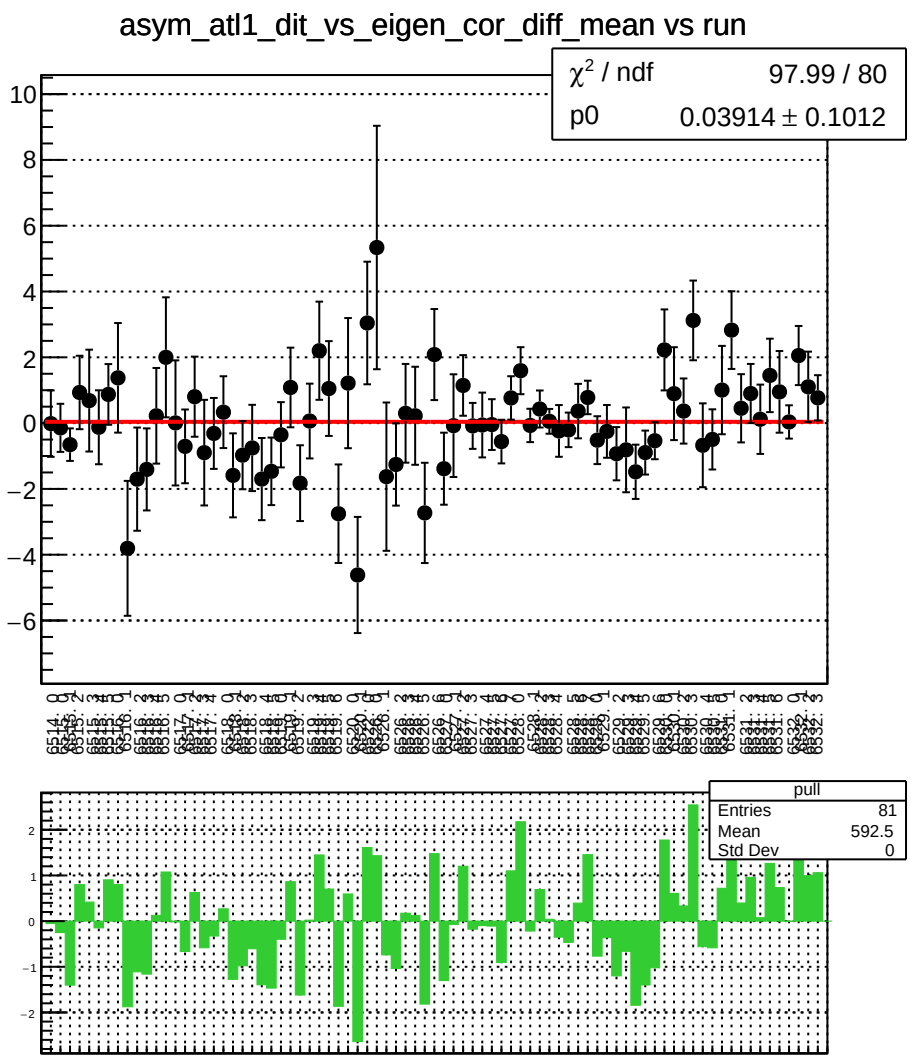

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 80.21 / 80
p0 −1.959e−14 ± 2.619e−14
pull
Entries 81
Mean 57.2
Std Dev 32.34

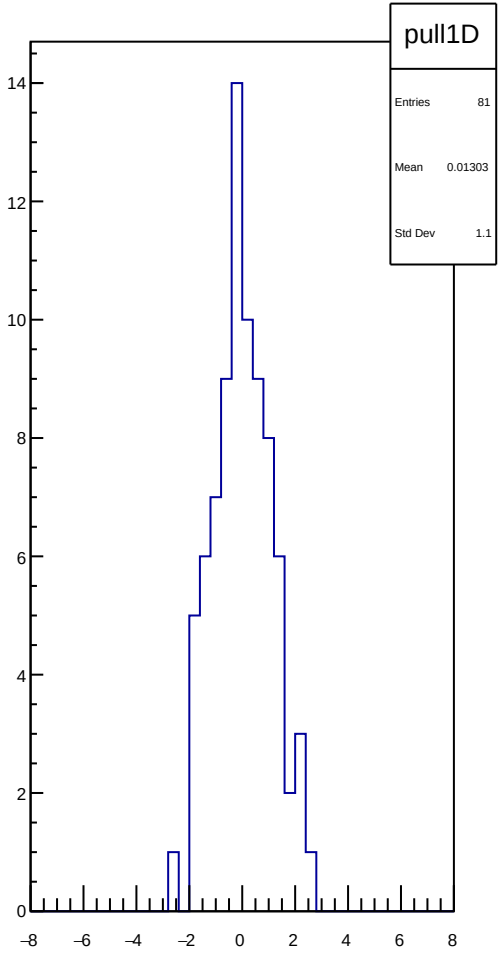

pull1D
Entries 81
Mean 0.09496
Std Dev 0.9906

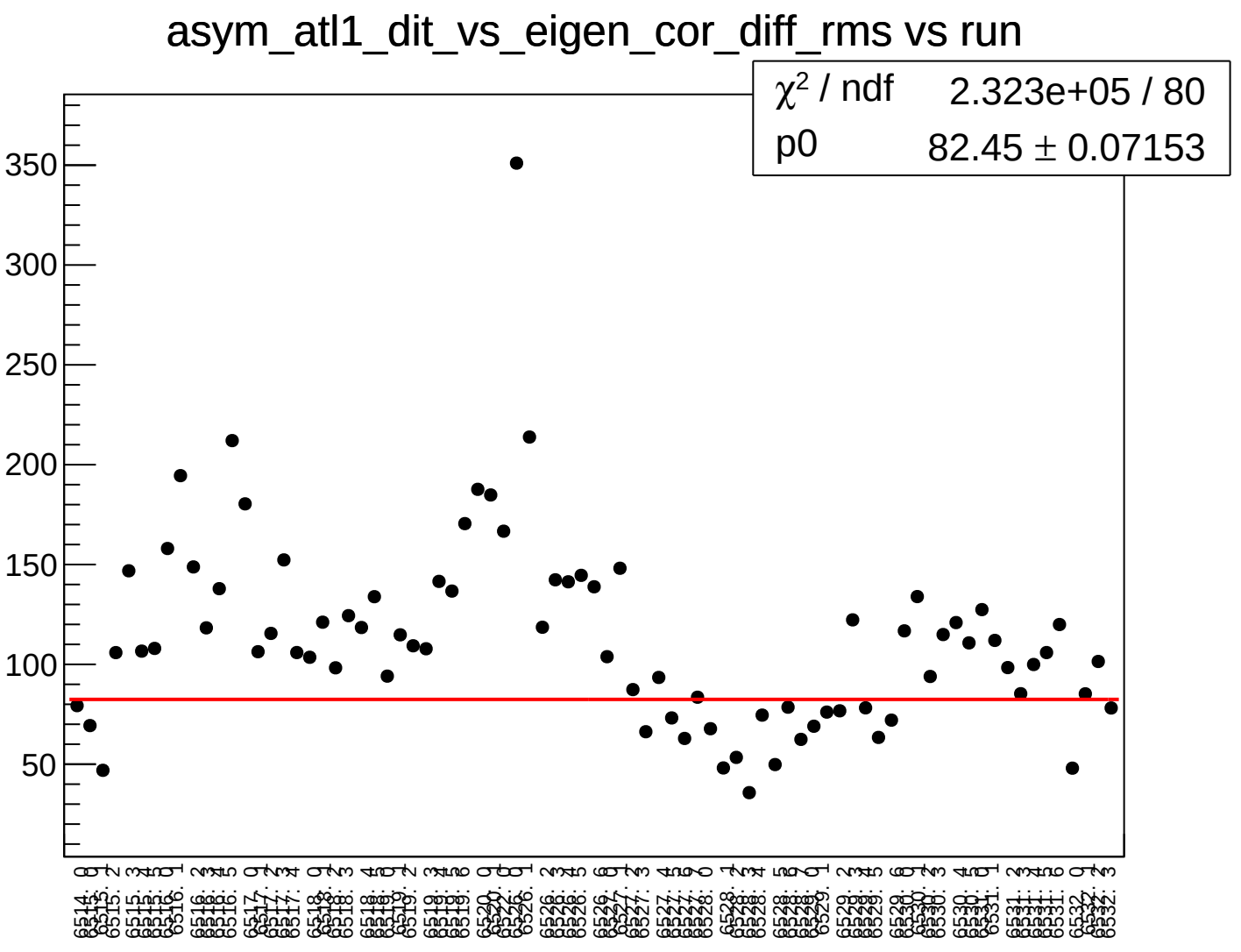

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 7.235e+05 / 80
p0 1.695e−11 ± 1.852e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

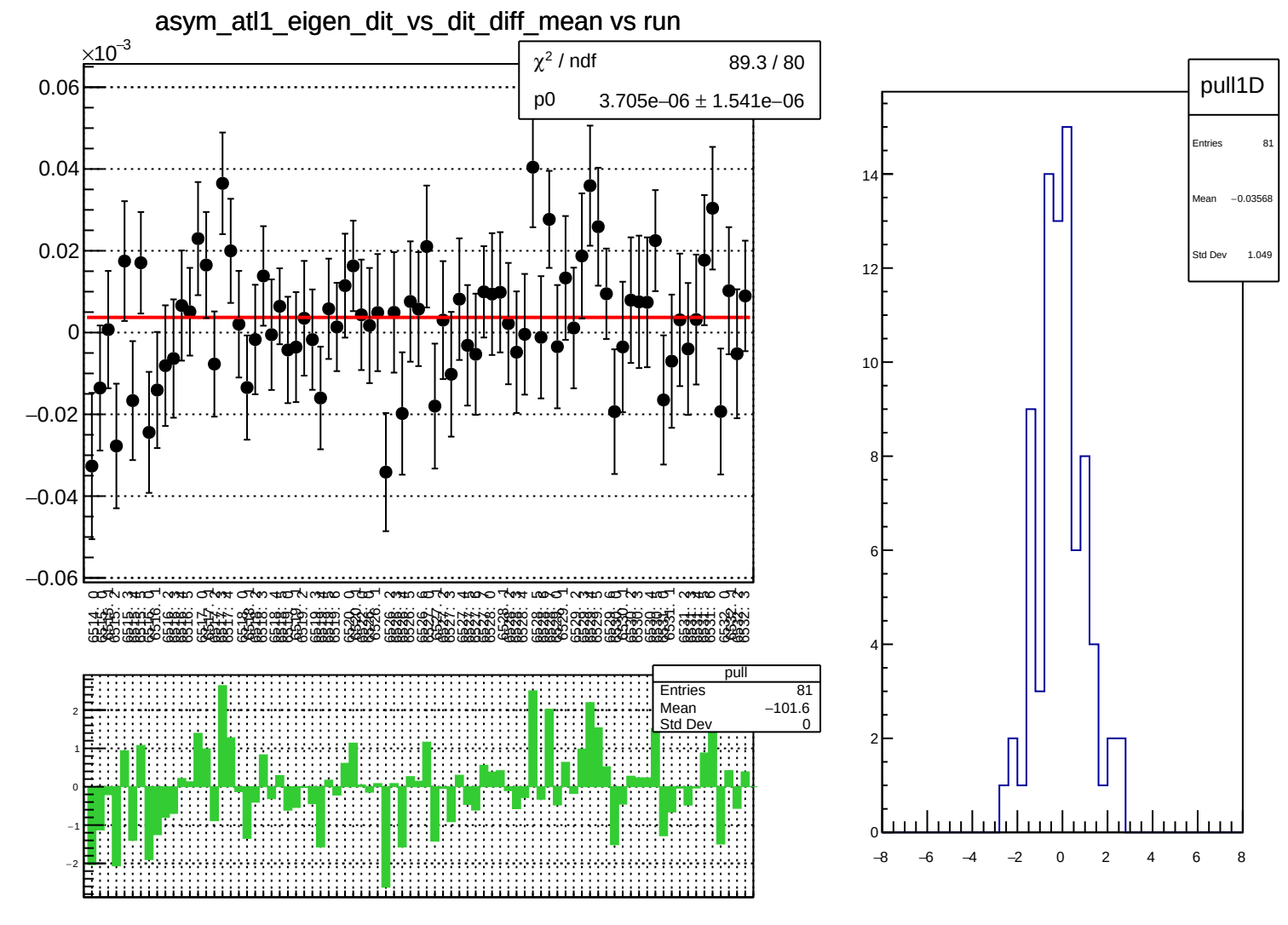

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 97.99 / 80
p0 0.03914 ± 0.1012
pull
Entries 81
Mean 592.5
Std Dev 0
pull1D
Entries 81
Mean 0.01303
Std Dev 1.1

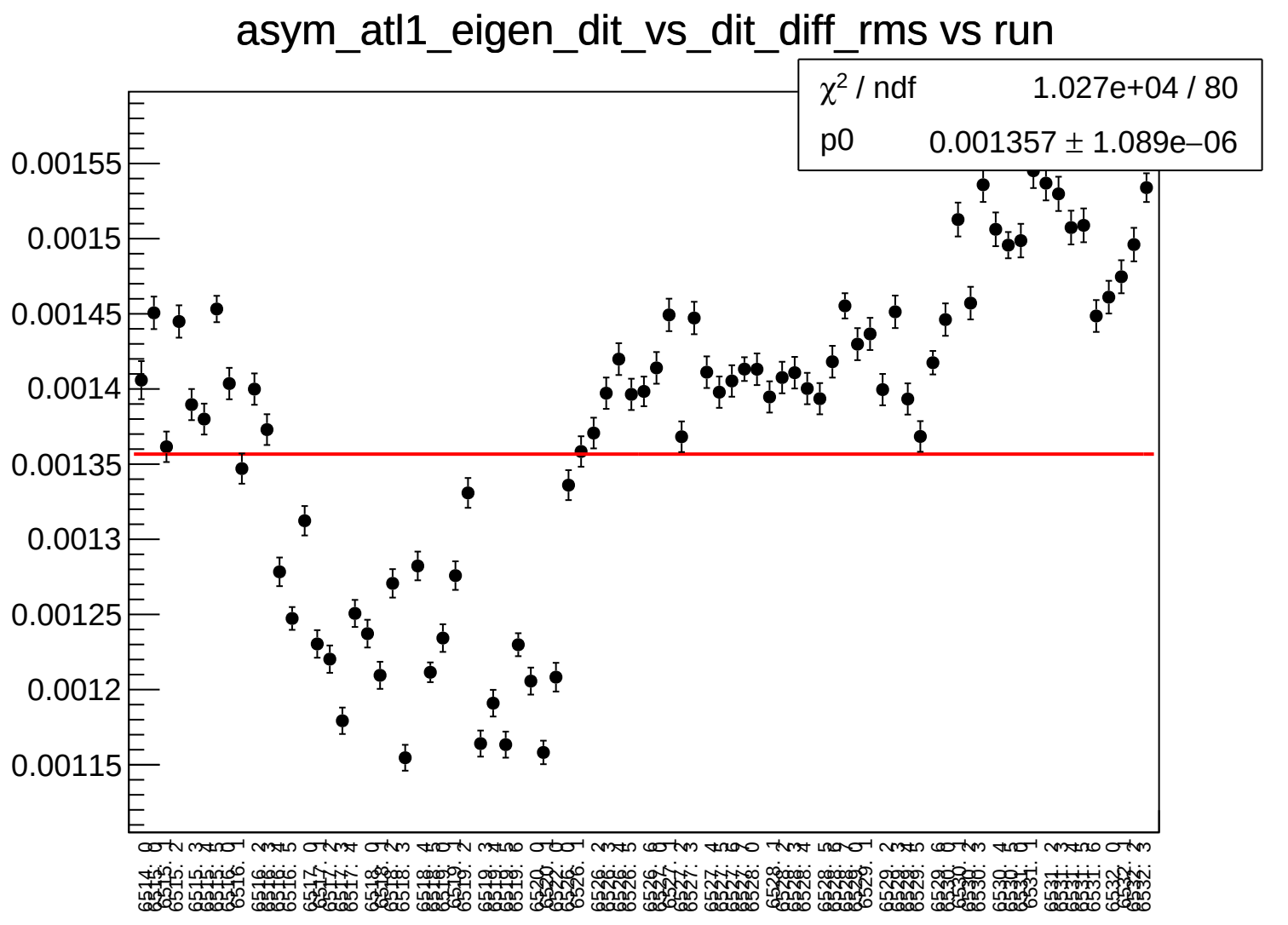

asym_atl1_dit_vs_cor_diff_rms vs run
χ² / ndf 2.323e+05 / 80
p0 82.45 ± 0.07153
350
300
250
200
150
100
50

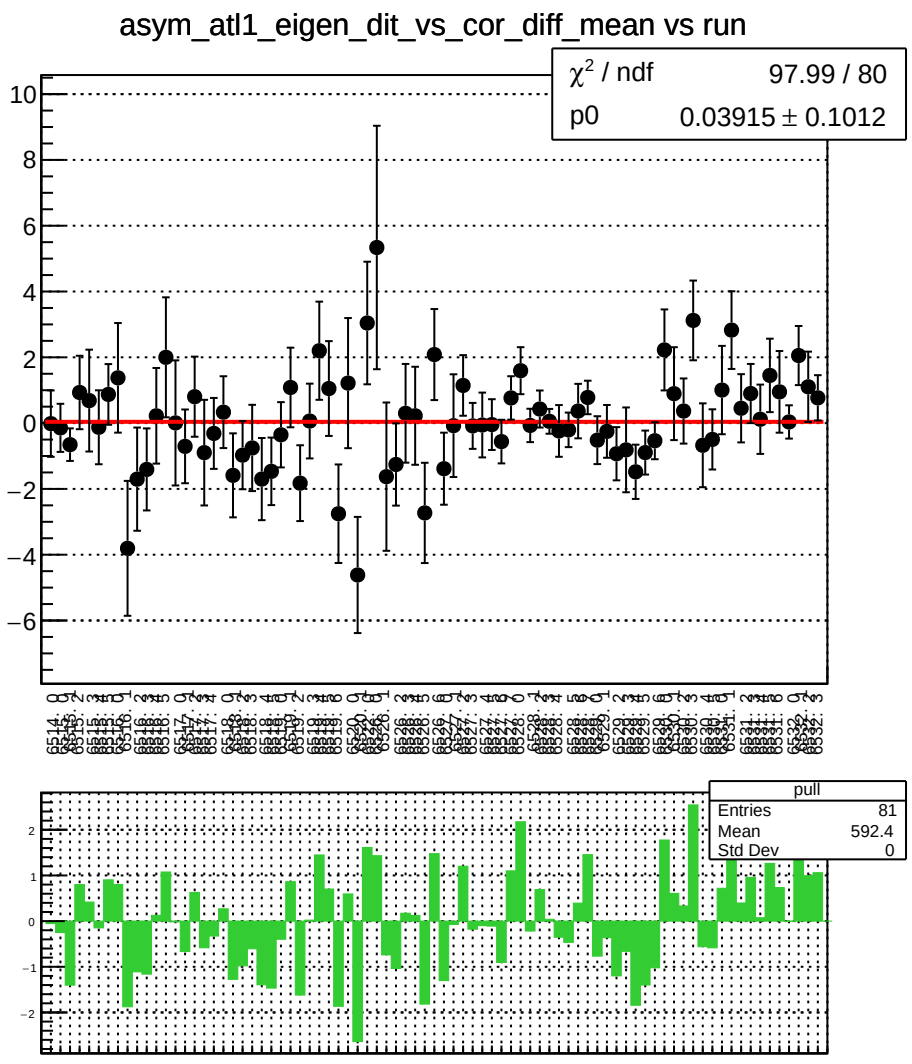

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.99 / 80
p0 0.03914 ± 0.1012
pull
Entries 81
Mean 592.5
Std Dev 0

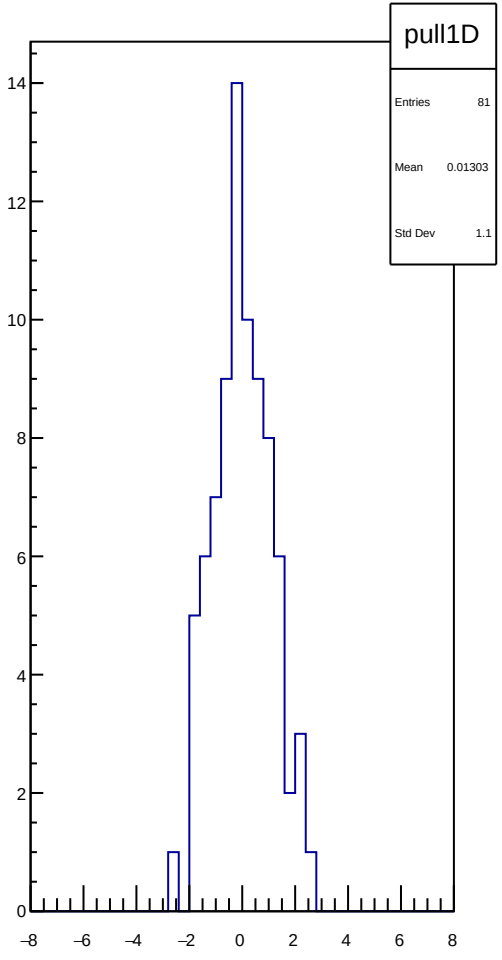

pull1D
Entries 81
Mean 0.01303
Std Dev 1.1

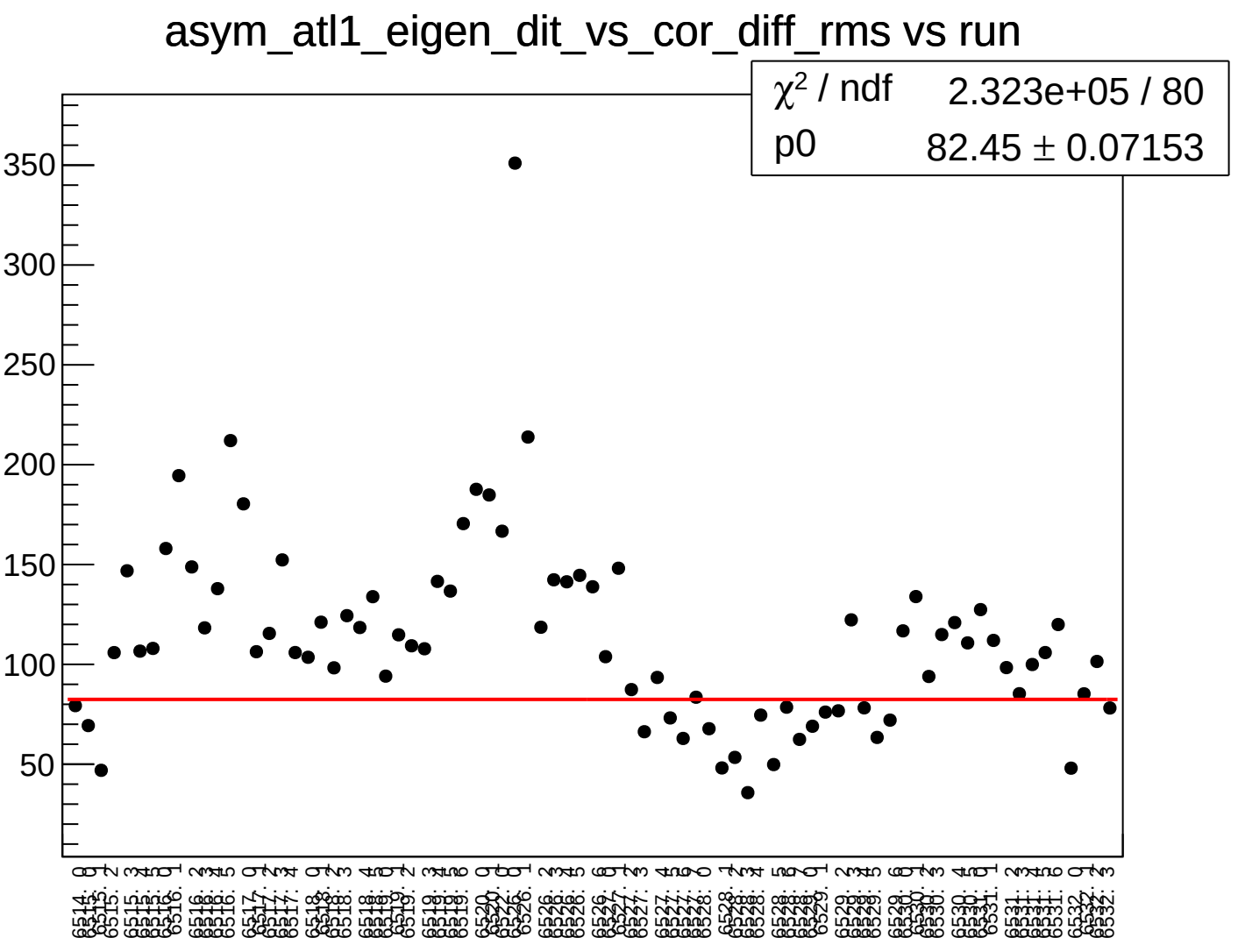

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.323e+05 / 80
p0 82.45 ± 0.07153
350
300
250
200
150
100
50

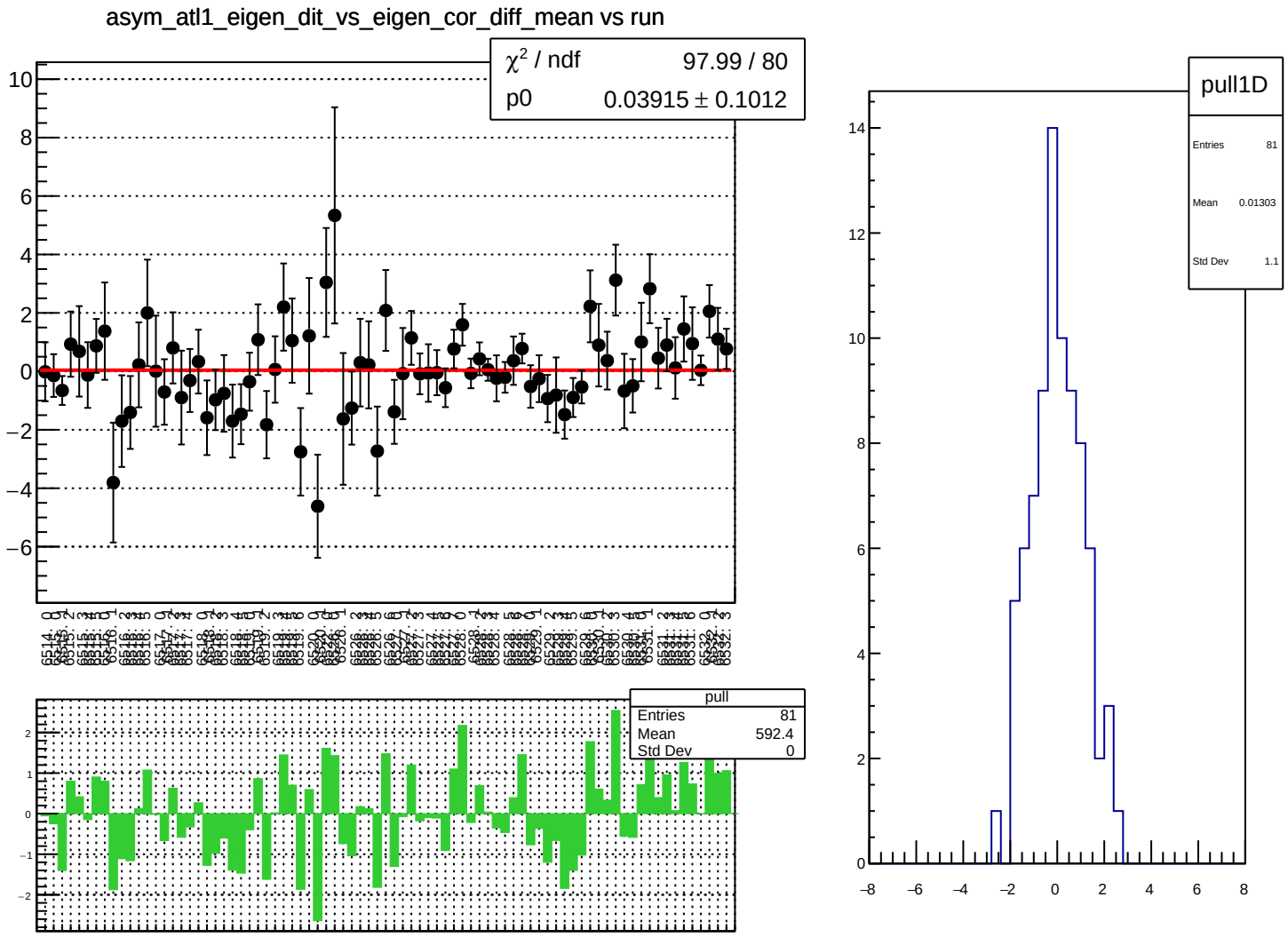

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10−3
χ2 / ndf 89.3 / 80
p0 3.705e−06 ± 1.541e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 81
Mean −101.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 81
Mean −0.03568
Std Dev 1.049
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

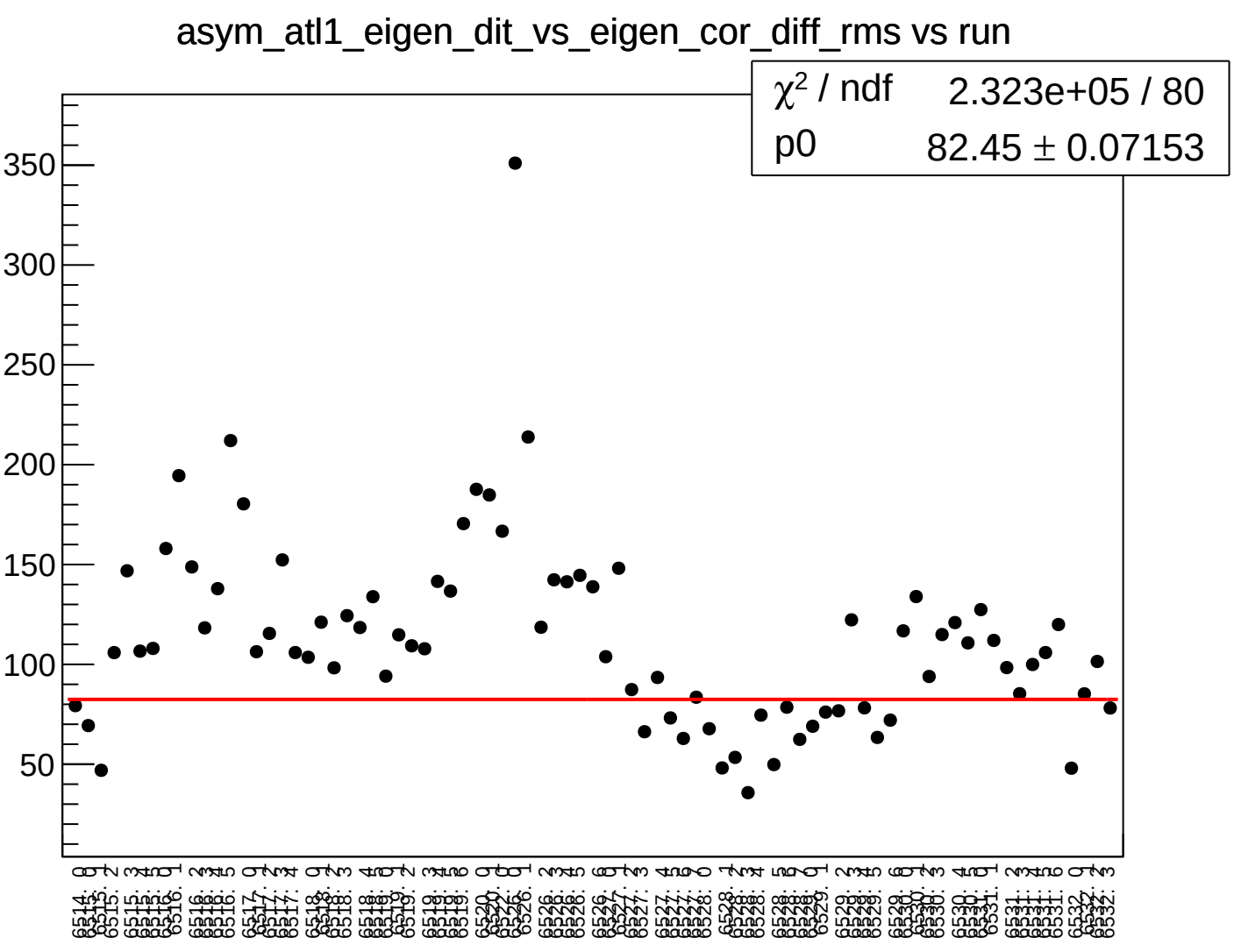

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.027e+04 / 80
p0 0.001357 ± 1.089e−06
0.00155
0.0015
0.00145
0.0014
0.00135
0.0013
0.00125
0.0012
0.00115

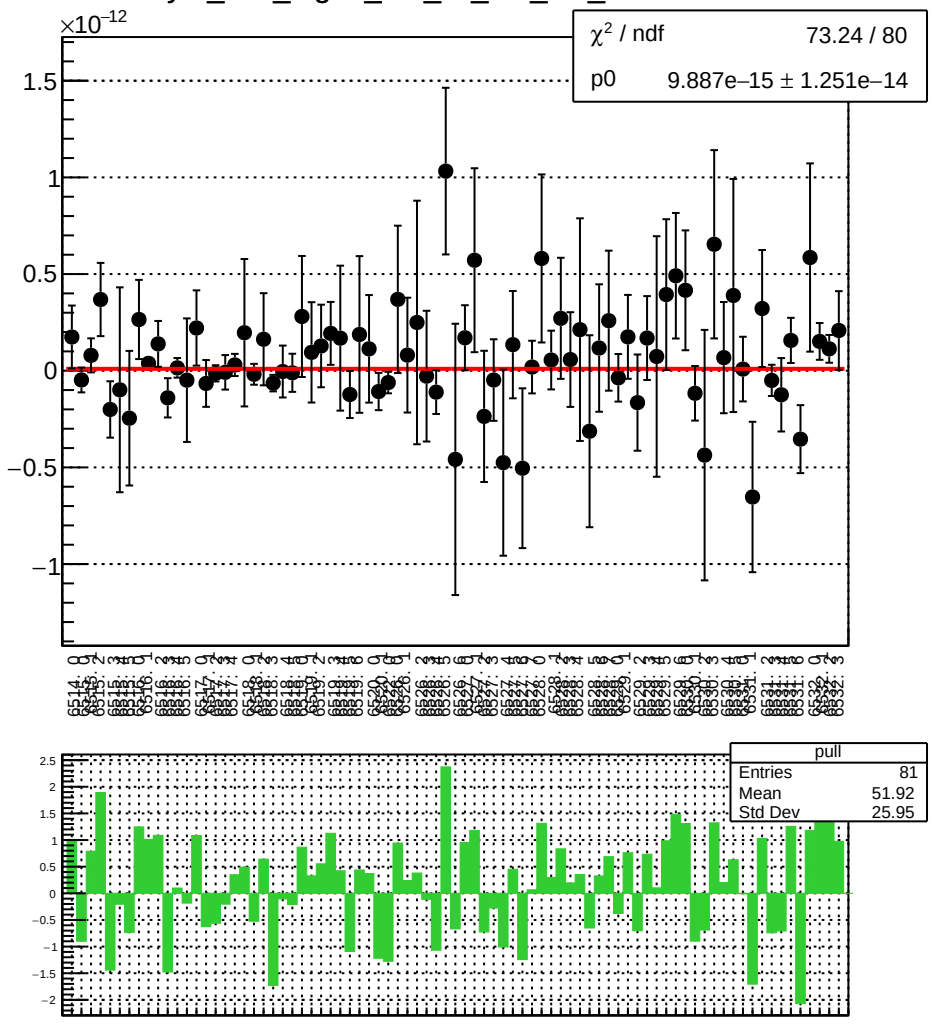

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.99 / 80
p0 0.03915 ± 0.1012
pull
Entries 81
Mean 592.4
Std Dev 0

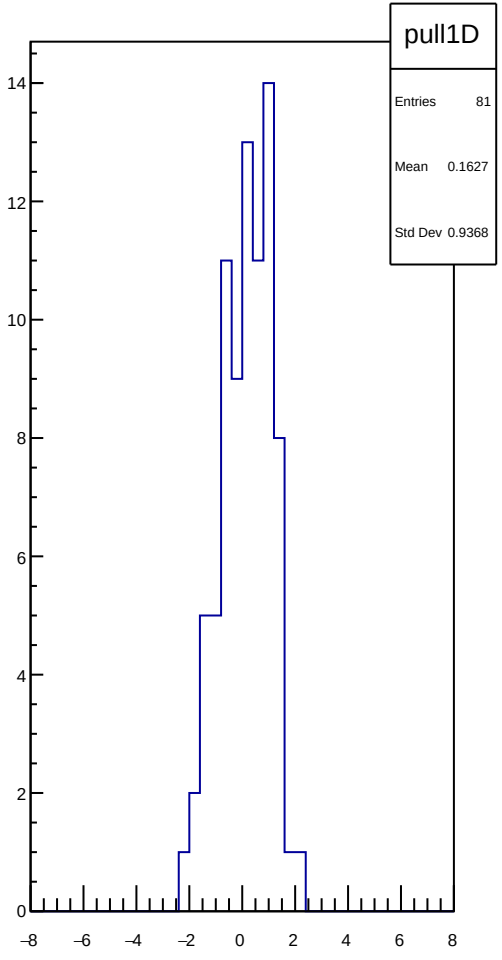

pull1D
Entries 81
Mean 0.01303
Std Dev 1.1

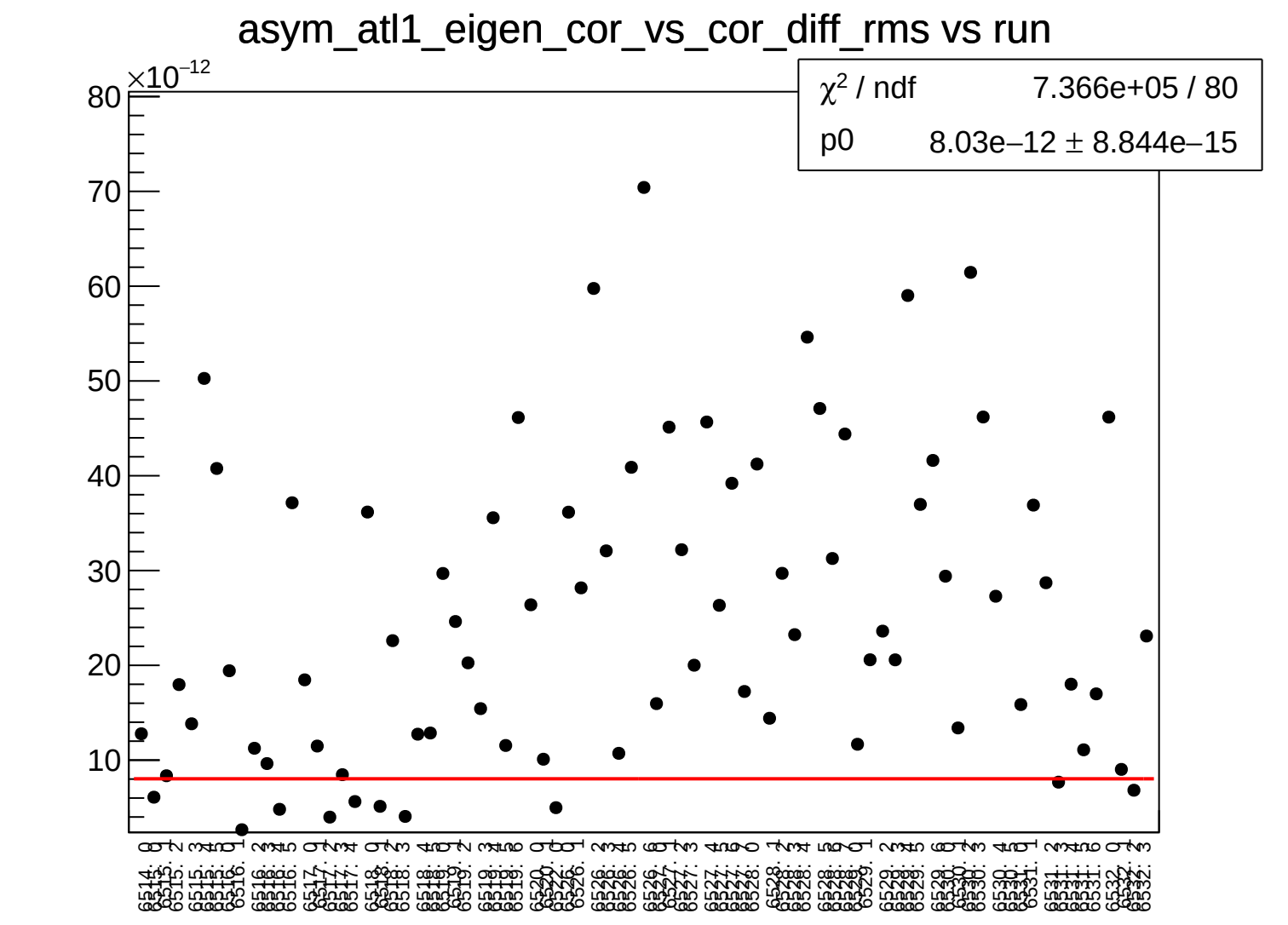

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.323e+05 / 80
p0 82.45 ± 0.07153
350
300
250
200
150
100
50

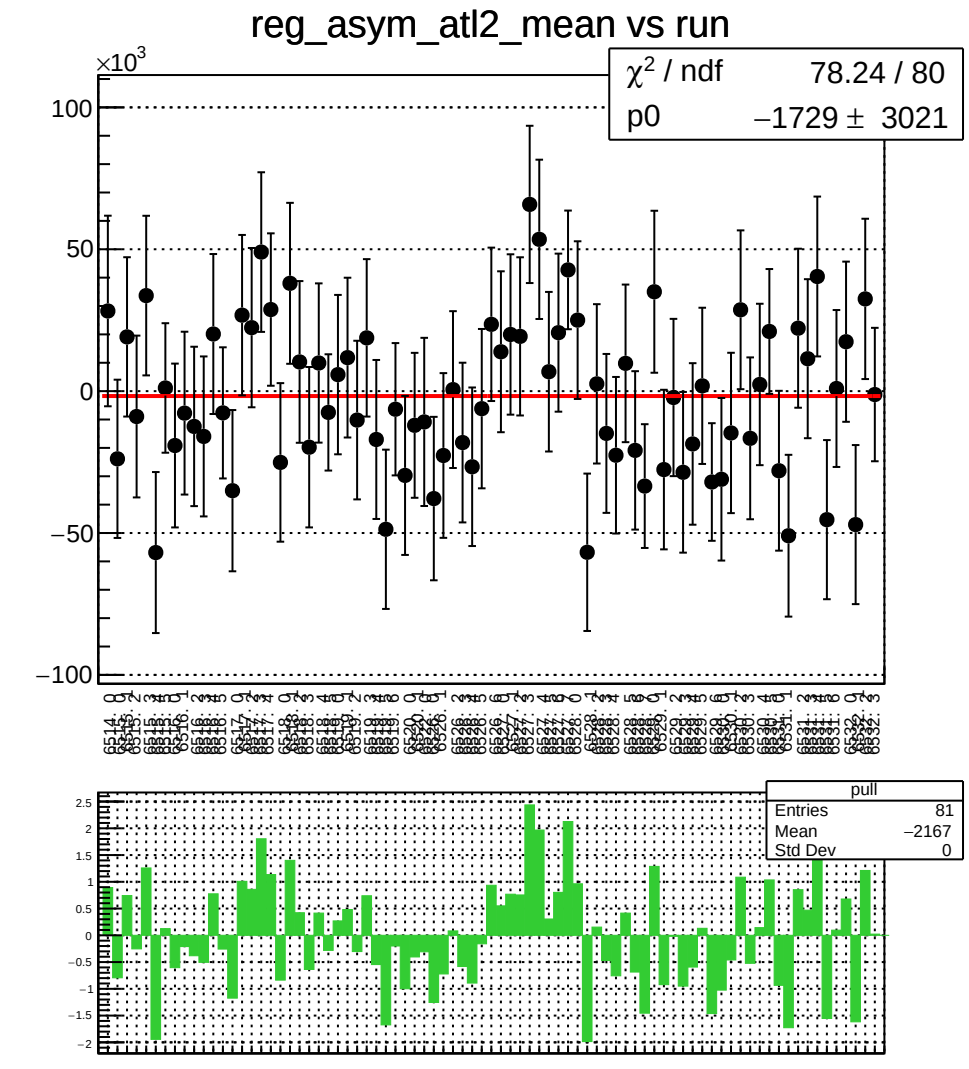

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.99 / 80
p0 0.03915 ± 0.1012
pull
Entries 81
Mean 592.4
Std Dev 0
pull1D
Entries 81
Mean 0.01303
Std Dev 1.1

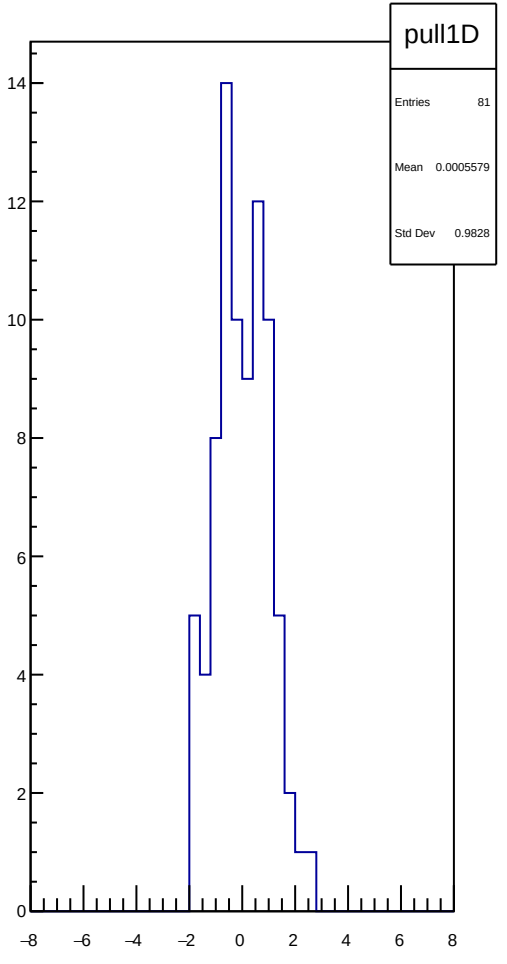

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.323e+05 / 80
p0 82.45 ± 0.07153
350
300
250
200
150
100
50

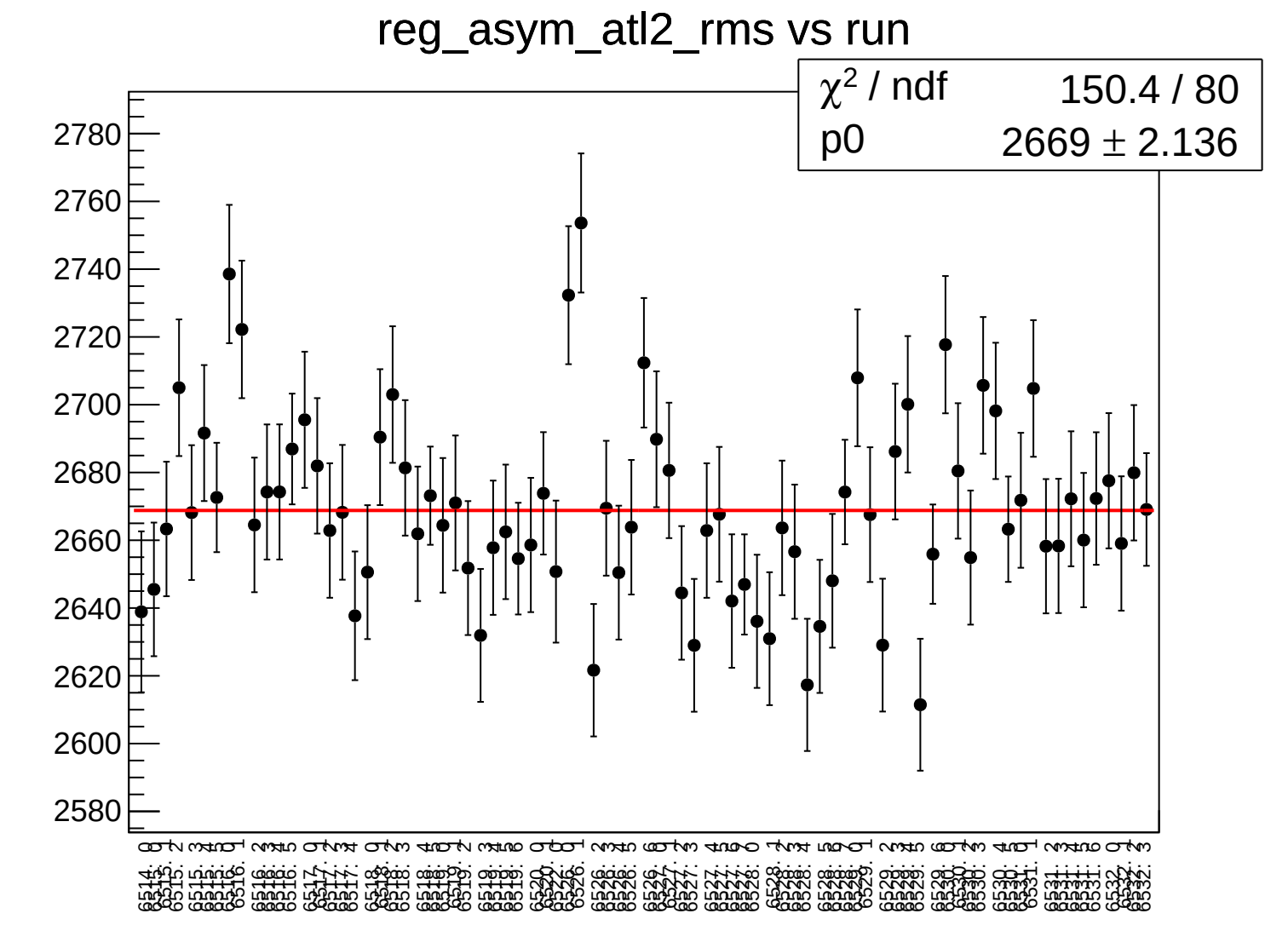

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.24 / 80
p0 9.887e−15 ± 1.251e−14
pull
Entries 81
Mean 51.92
Std Dev 25.95

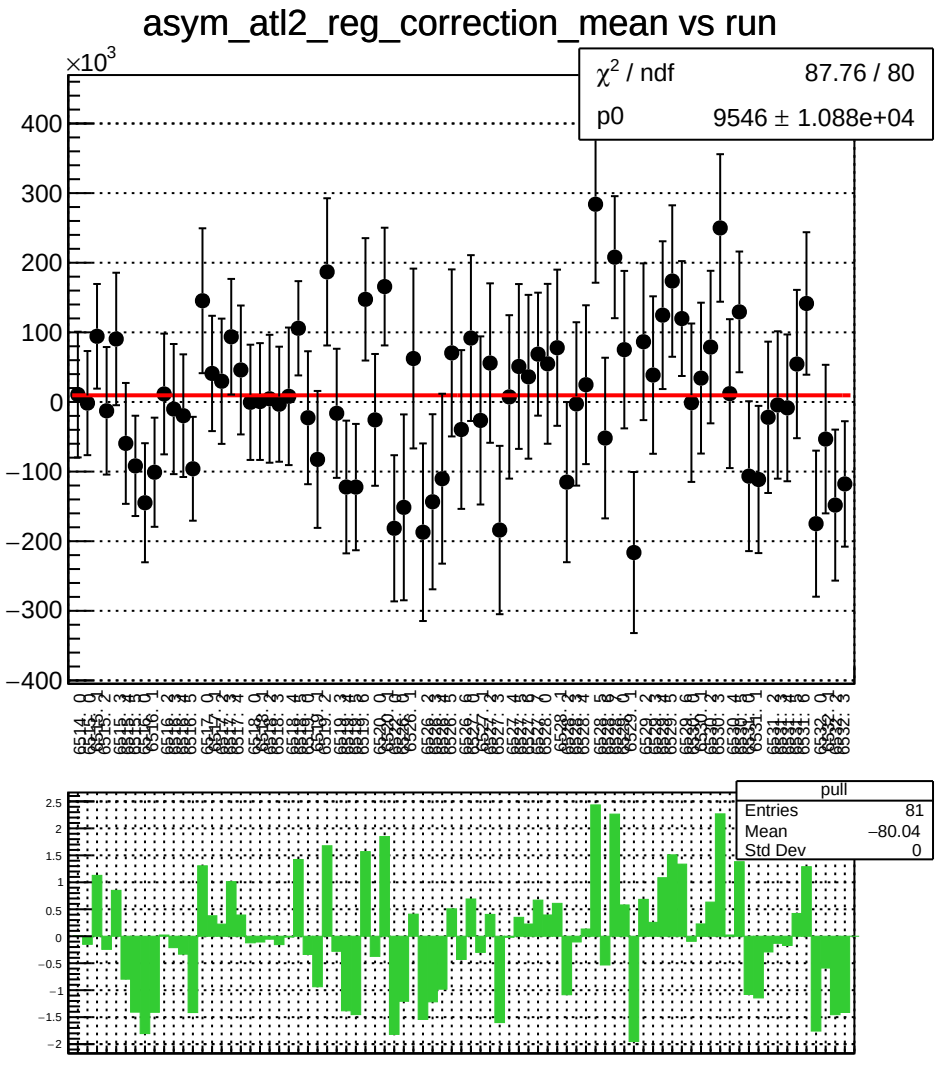

pull1D
Entries 81
Mean 0.1627
Std Dev 0.9368

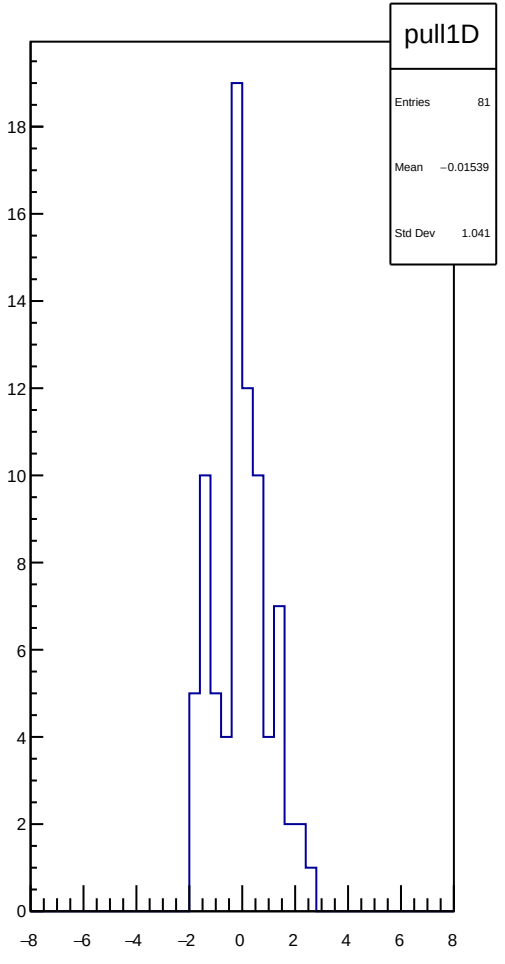

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
80
70
60
50
40
30
20
10
χ² / ndf 7.366e+05 / 80
p0 8.03e−12 ± 8.844e−15

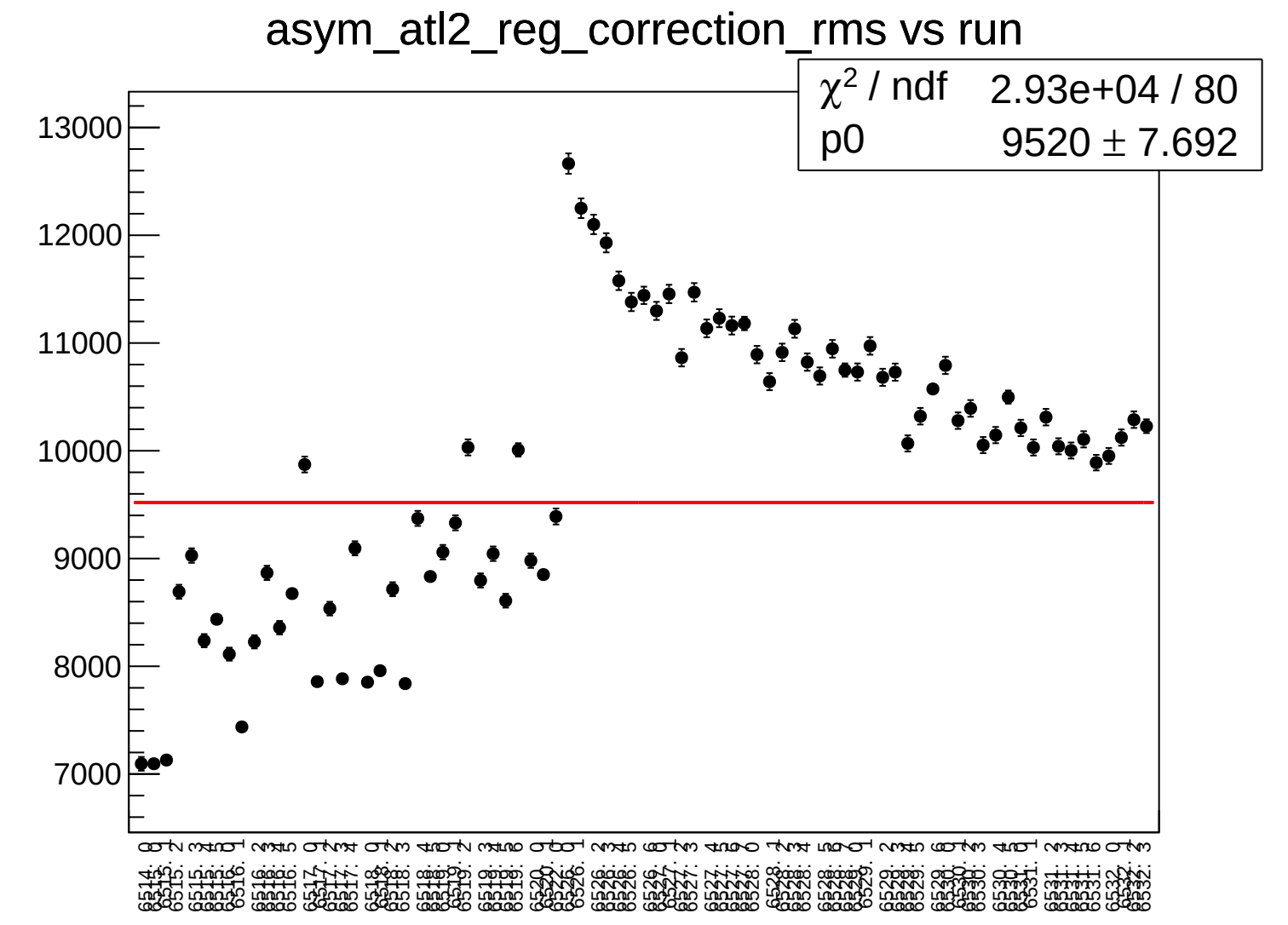

reg_asym_atl2_mean vs run
×10^3
χ² / ndf 78.24 / 80
p0 −1729 ± 3021
100
50
0
−50
−100
pull
Entries 81
Mean −2167
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

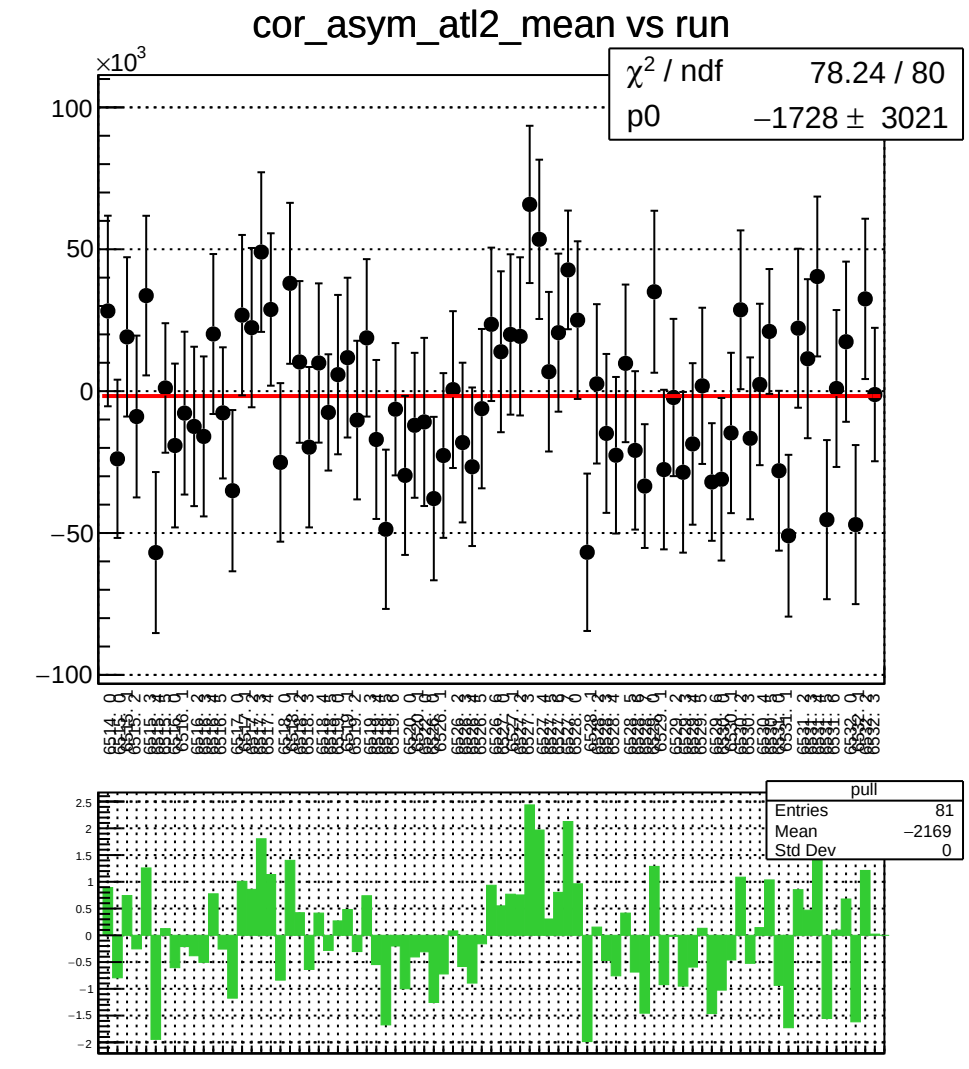

pull1D
Entries 81
Mean 0.0005579
Std Dev 0.9828
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

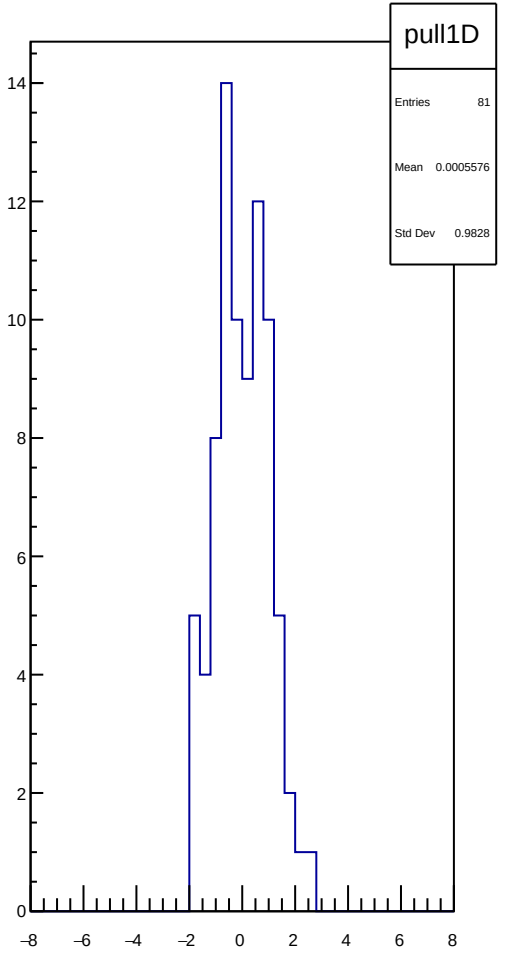

reg_asym_atl2_rms vs run
χ² / ndf 150.4 / 80
p0 2669 ± 2.136
2780
2760
2740
2720
2700
2680
2660
2640
2620
2600
2580

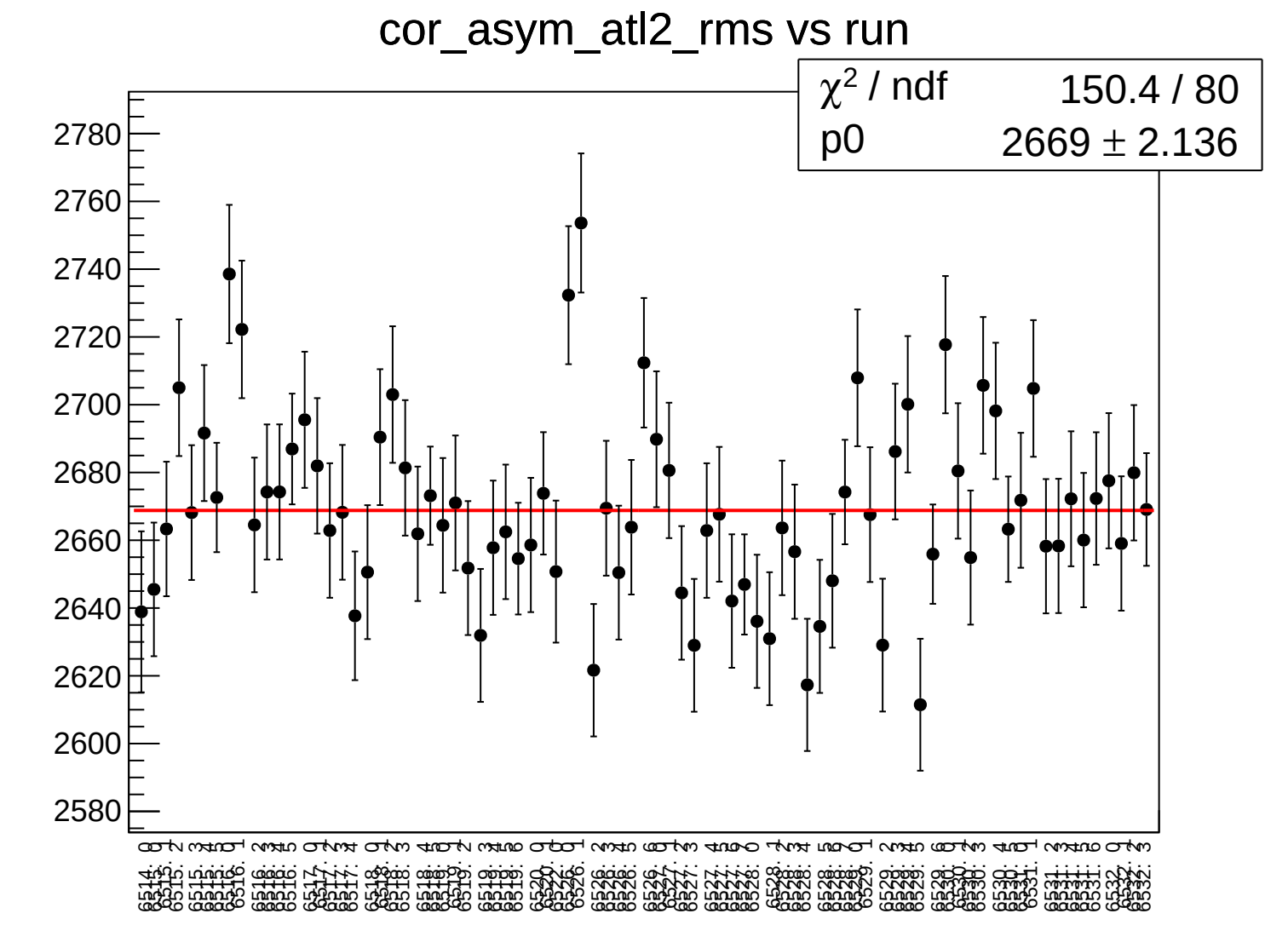

asym_atl2_reg_correction_mean vs run
×10^3
χ² / ndf 87.76 / 80
p0 9546 ± 1.088e+04
pull
Entries 81
Mean −80.04
Std Dev 0

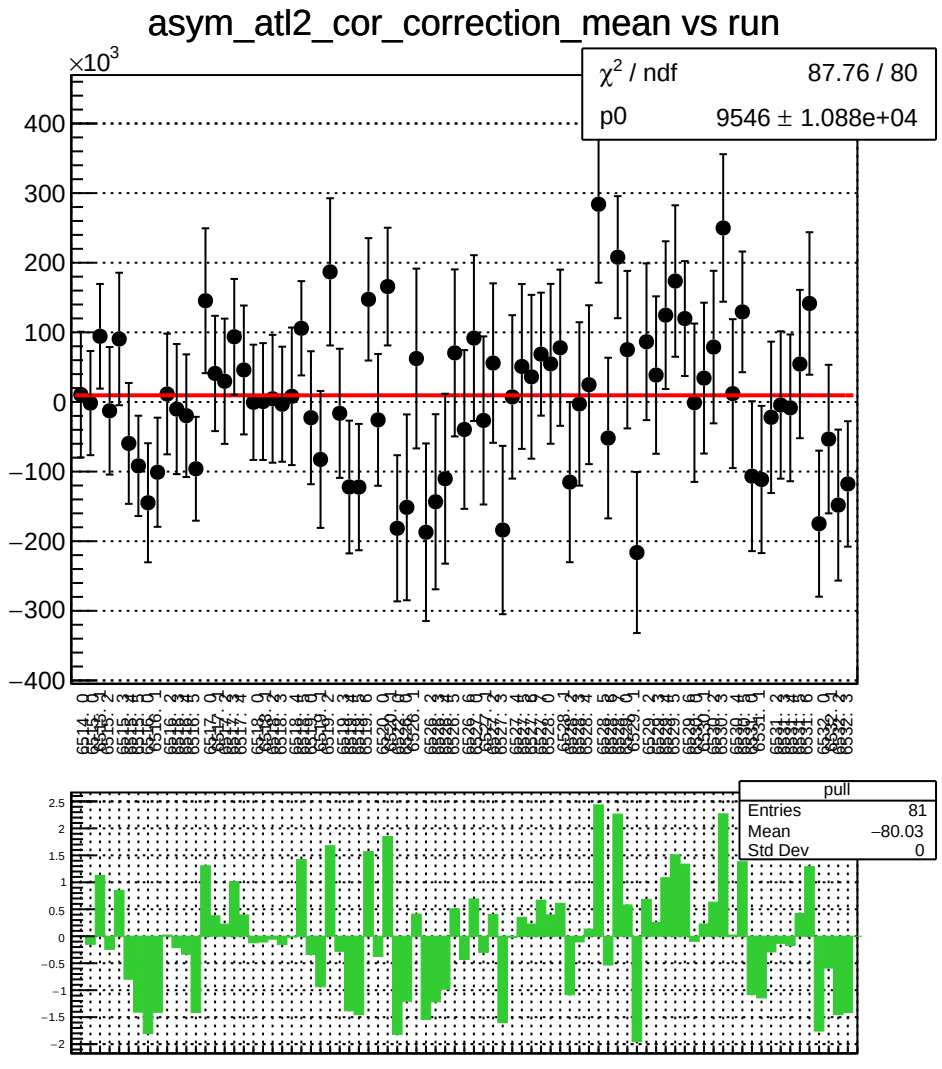

pull1D
Entries 81
Mean −0.01539
Std Dev 1.041

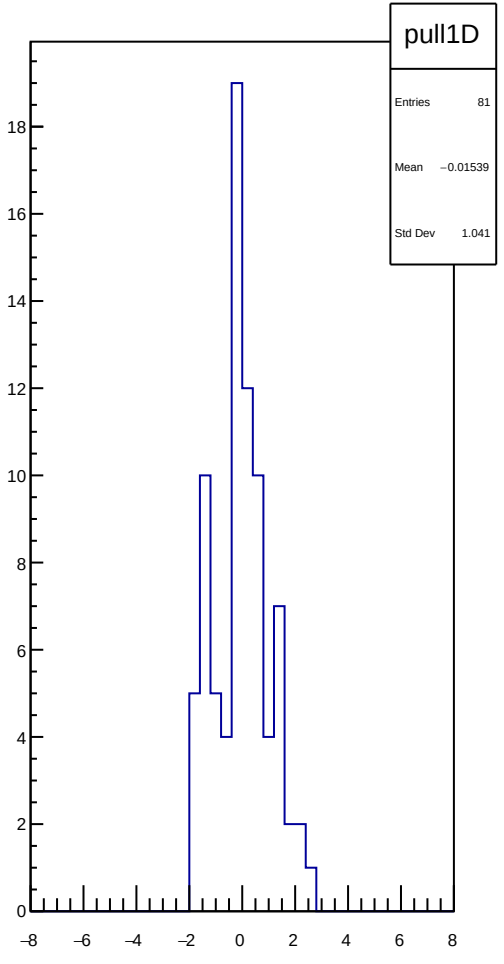

asym_atl2_reg_correction_rms vs run
χ² / ndf 2.93e+04 / 80
p0 9520 ± 7.692
13000
12000
11000
10000
9000
8000
7000

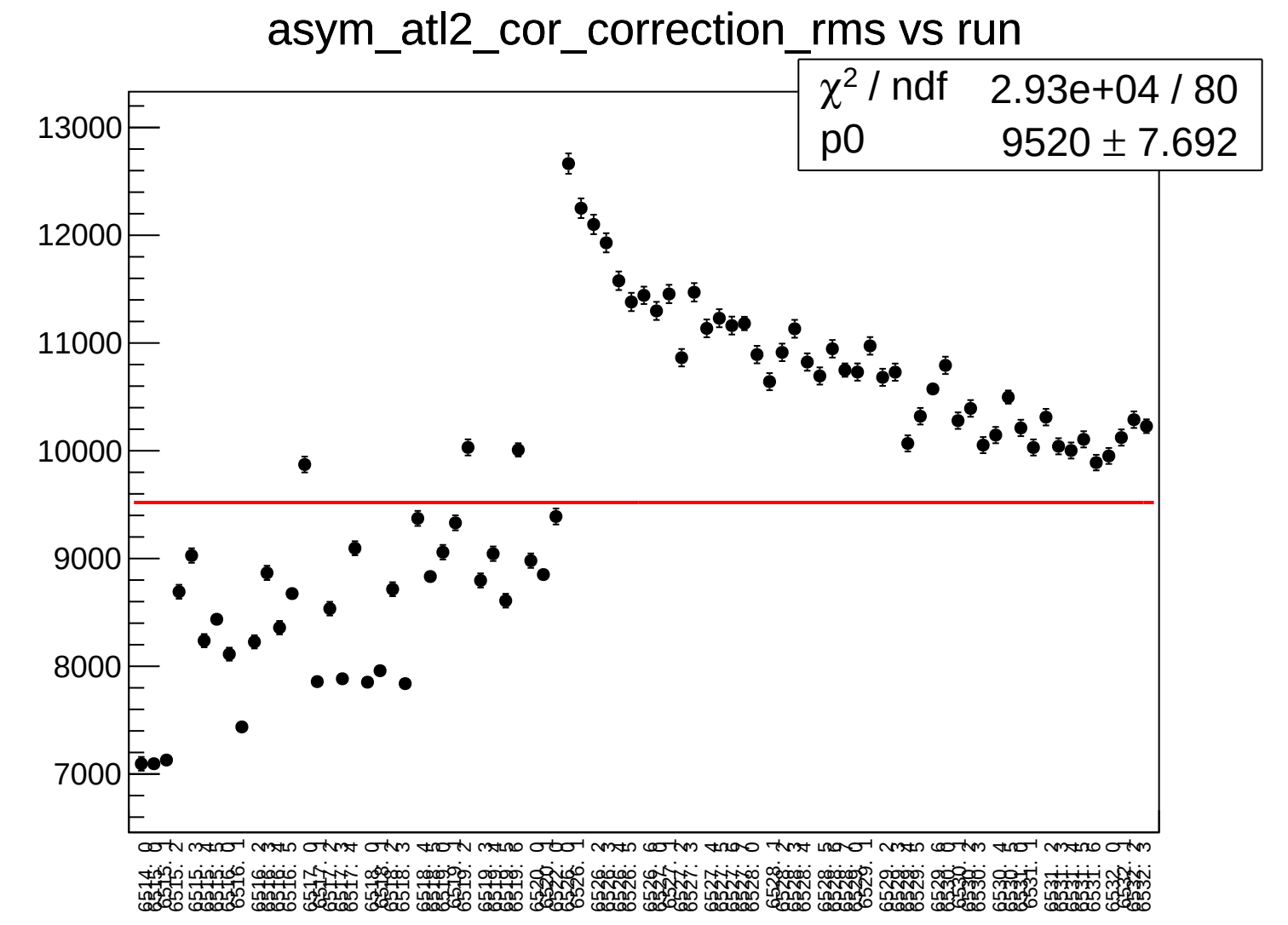

cor_asym_atl2_mean vs run
×10^3
χ² / ndf 78.24 / 80
p0 −1728 ± 3021
100
50
0
−50
−100
pull
Entries 81
Mean −2169
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

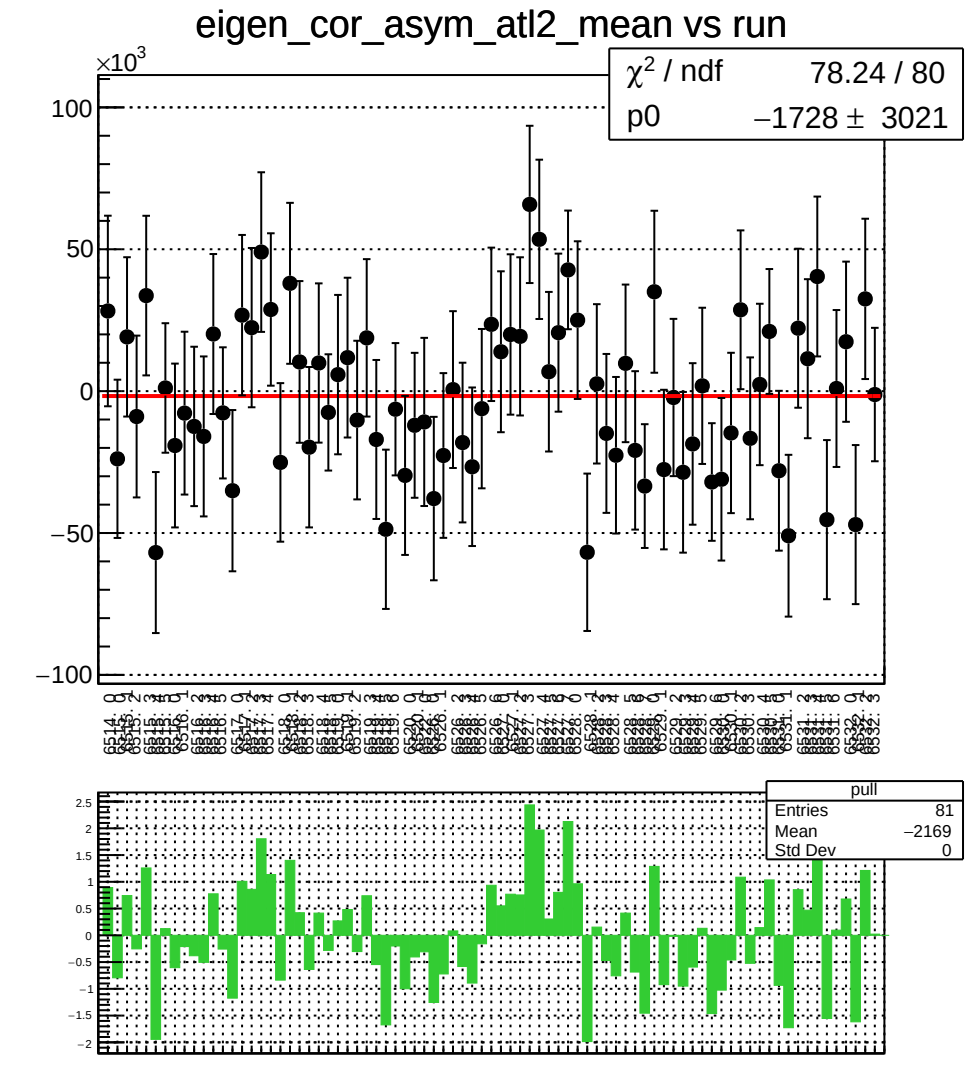

pull1D
Entries 81
Mean 0.0005576
Std Dev 0.9828
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

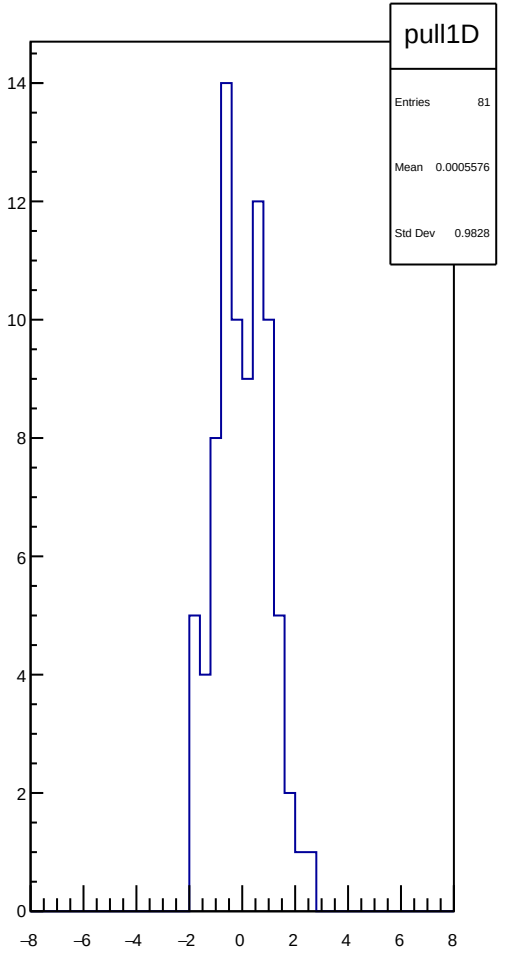

cor_asym_atl2_rms vs run
χ^2 / ndf 150.4 / 80
p0 2669 ± 2.136
2780
2760
2740
2720
2700
2680
2660
2640
2620
2600
2580

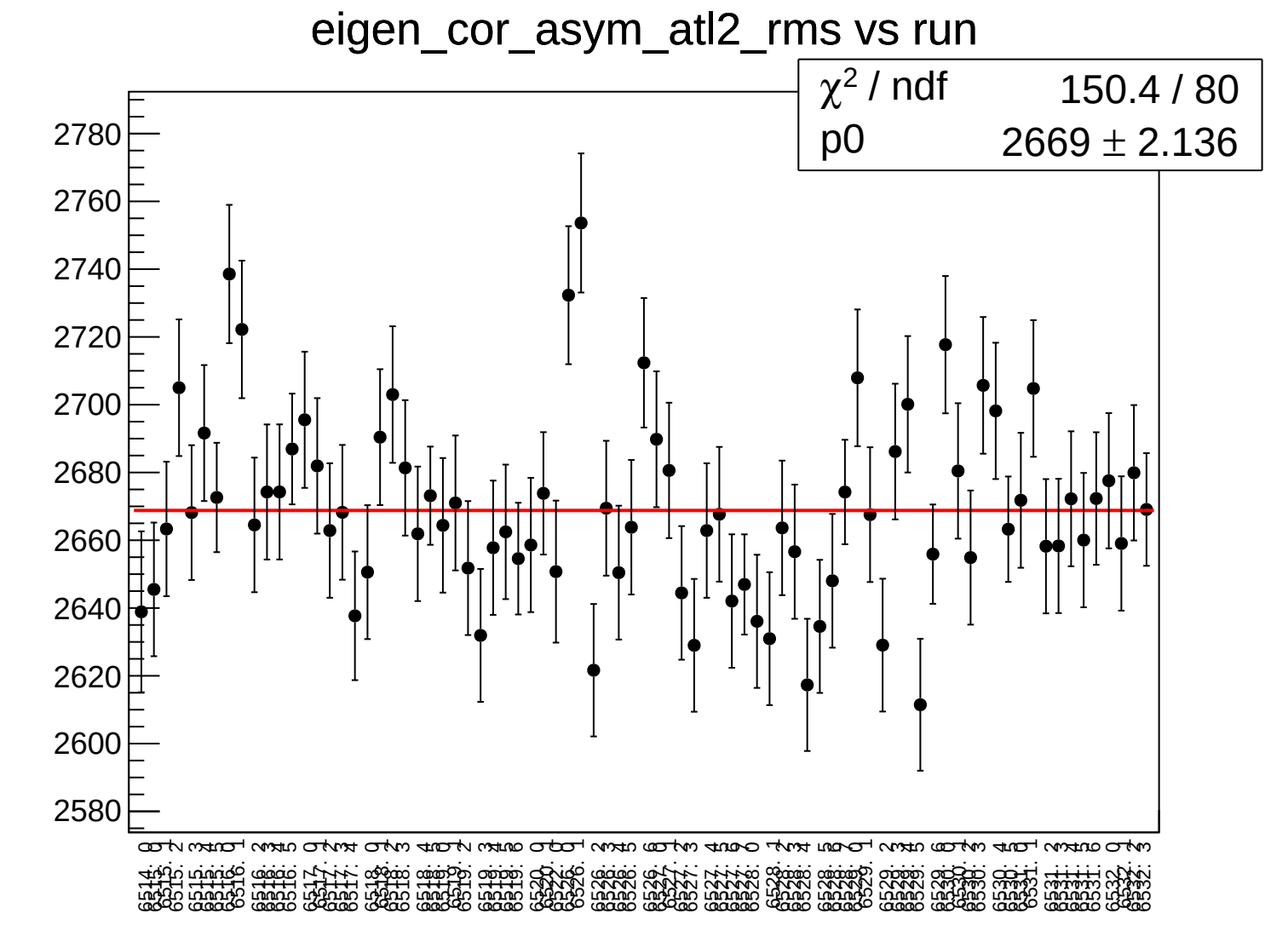

asym_atl2_cor_correction_mean vs run
×10^3
χ² / ndf 87.76 / 80
p0 9546 ± 1.088e+04
pull
Entries 81
Mean −80.03
Std Dev 0

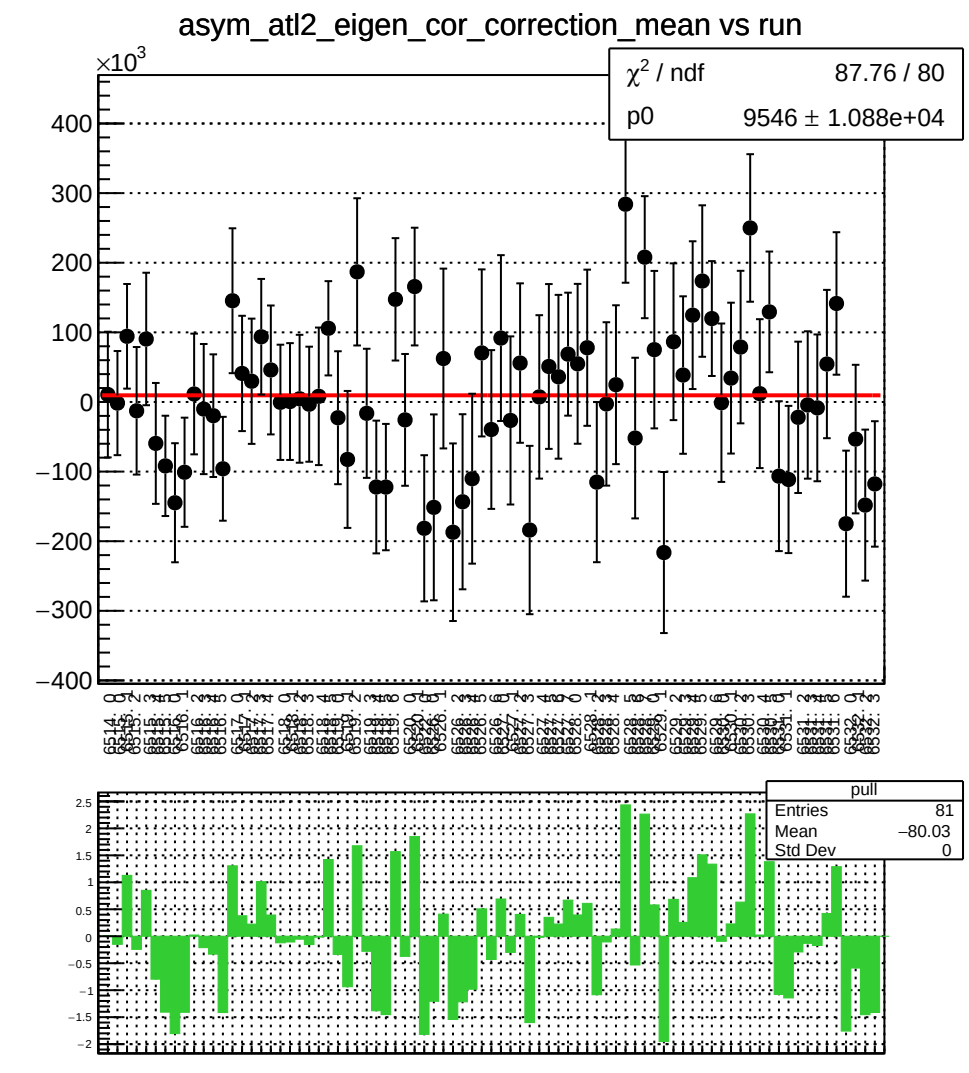

pull1D
Entries 81
Mean −0.01539
Std Dev 1.041

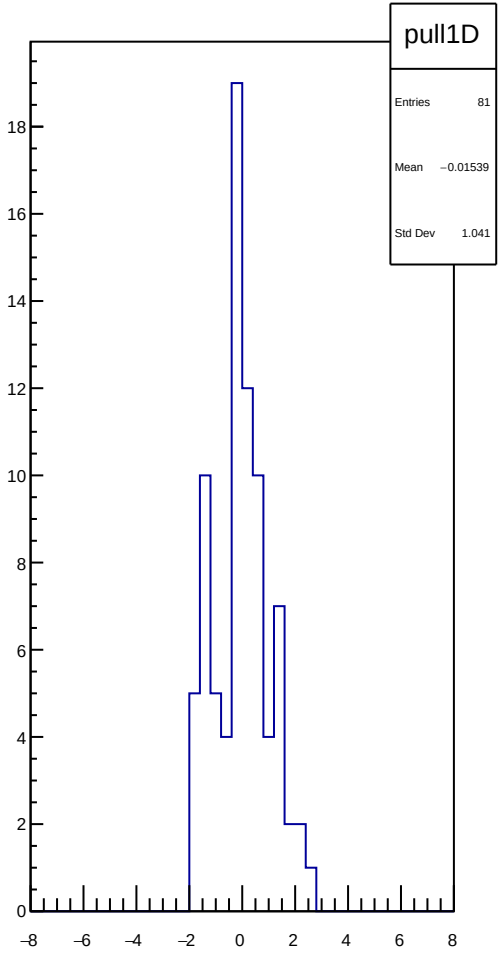

asym_atl2_cor_correction_rms vs run
χ² / ndf 2.93e+04 / 80
p0 9520 ± 7.692
13000
12000
11000
10000
9000
8000
7000

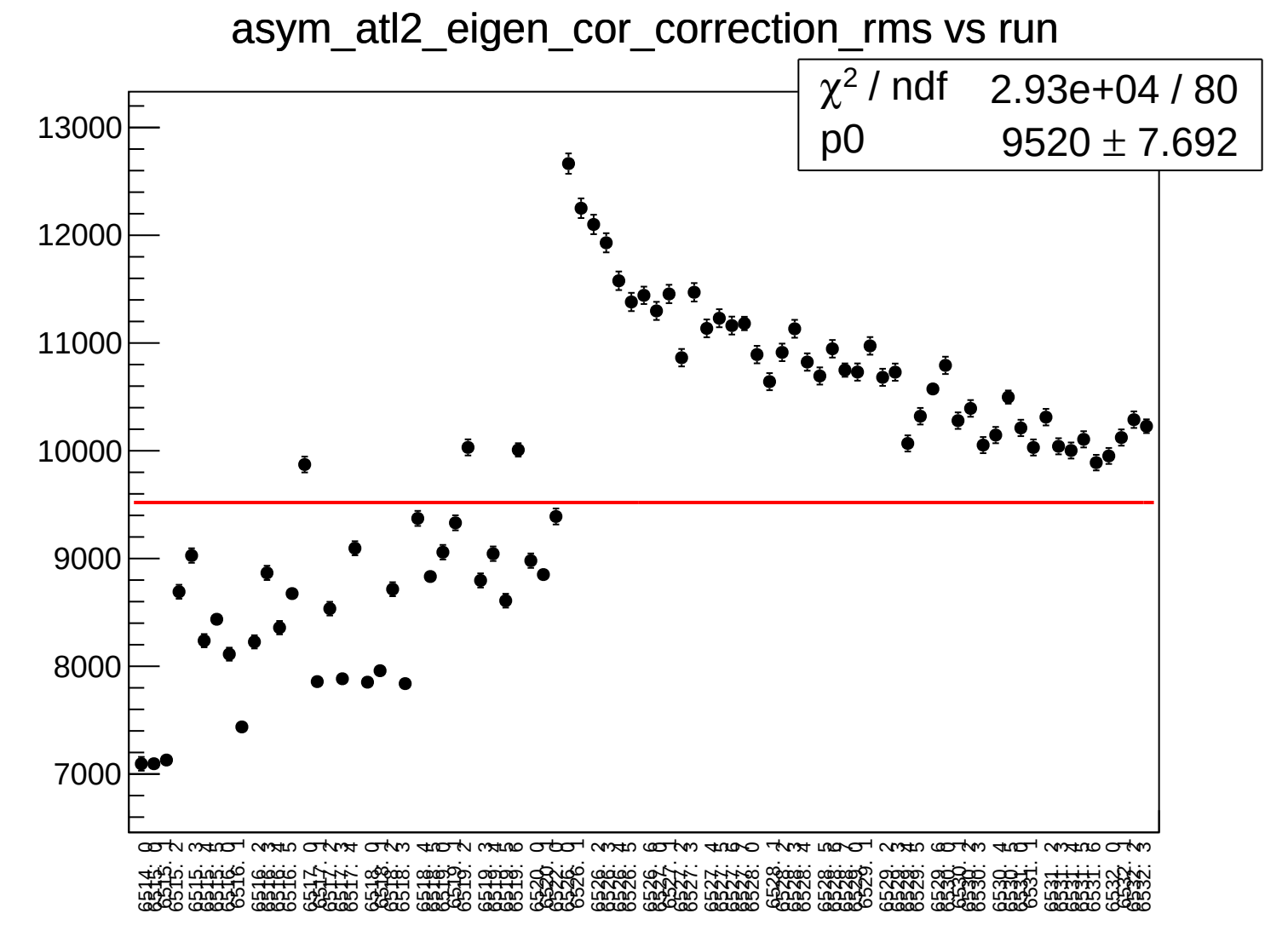

eigen_cor_asym_atl2_mean vs run
×10^3
χ² / ndf 78.24 / 80
p0 −1728 ± 3021
100
50
0
−50
−100
pull
Entries 81
Mean −2169
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

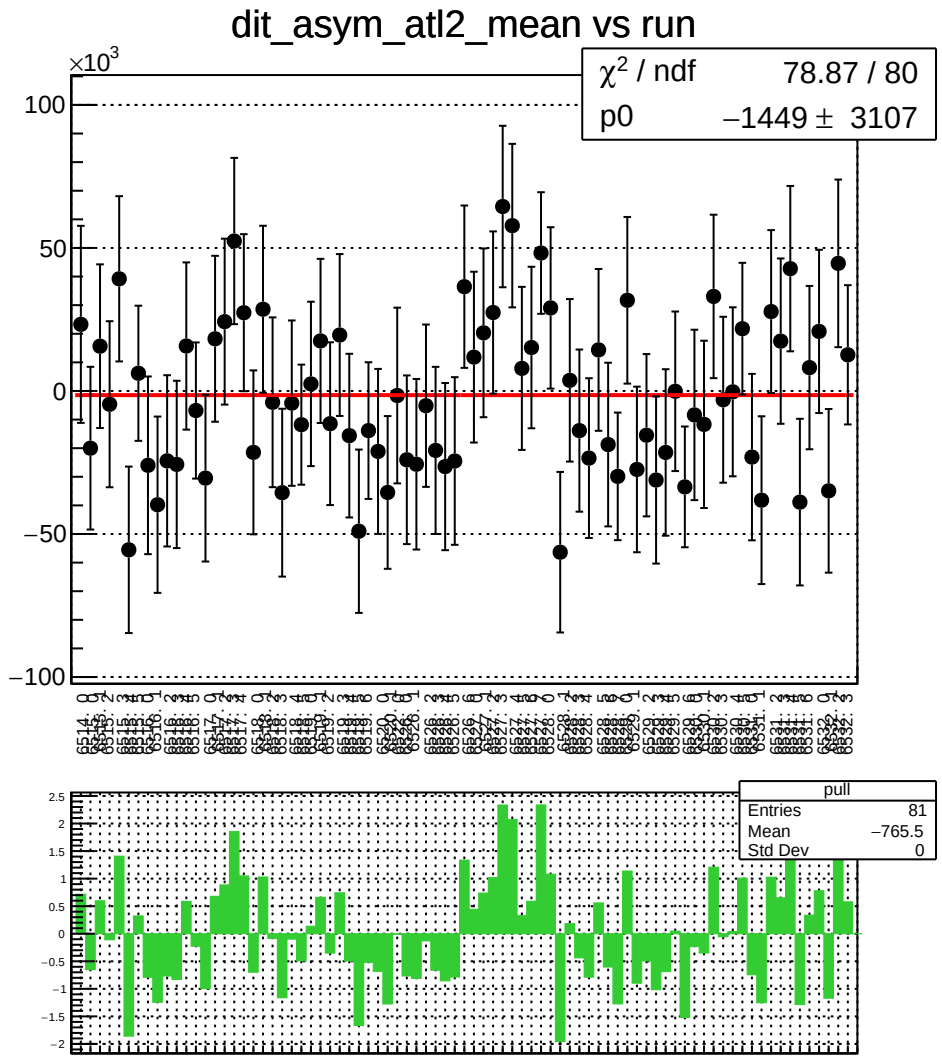

pull1D
Entries 81
Mean 0.0005576
Std Dev 0.9828
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

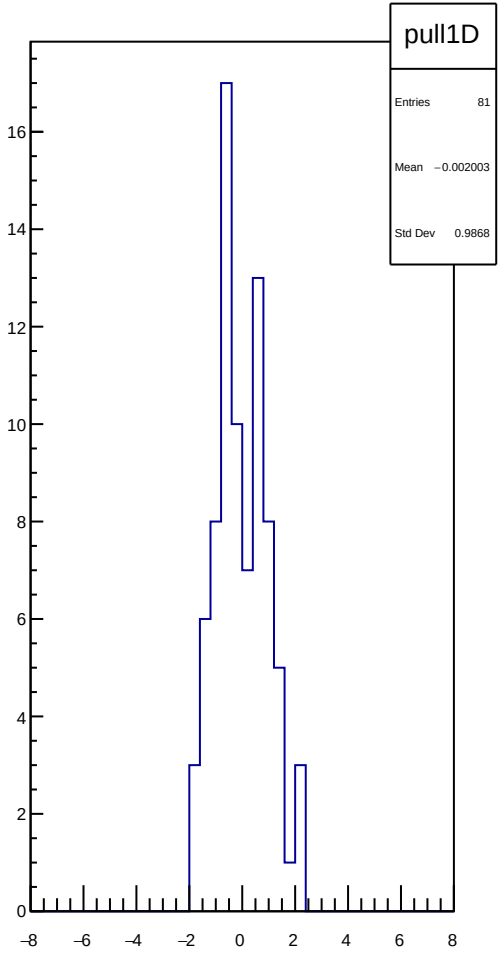

eigen_cor_asym_atl2_rms vs run
χ² / ndf 150.4 / 80
p0 2669 ± 2.136
2780
2760
2740
2720
2700
2680
2660
2640
2620
2600
2580

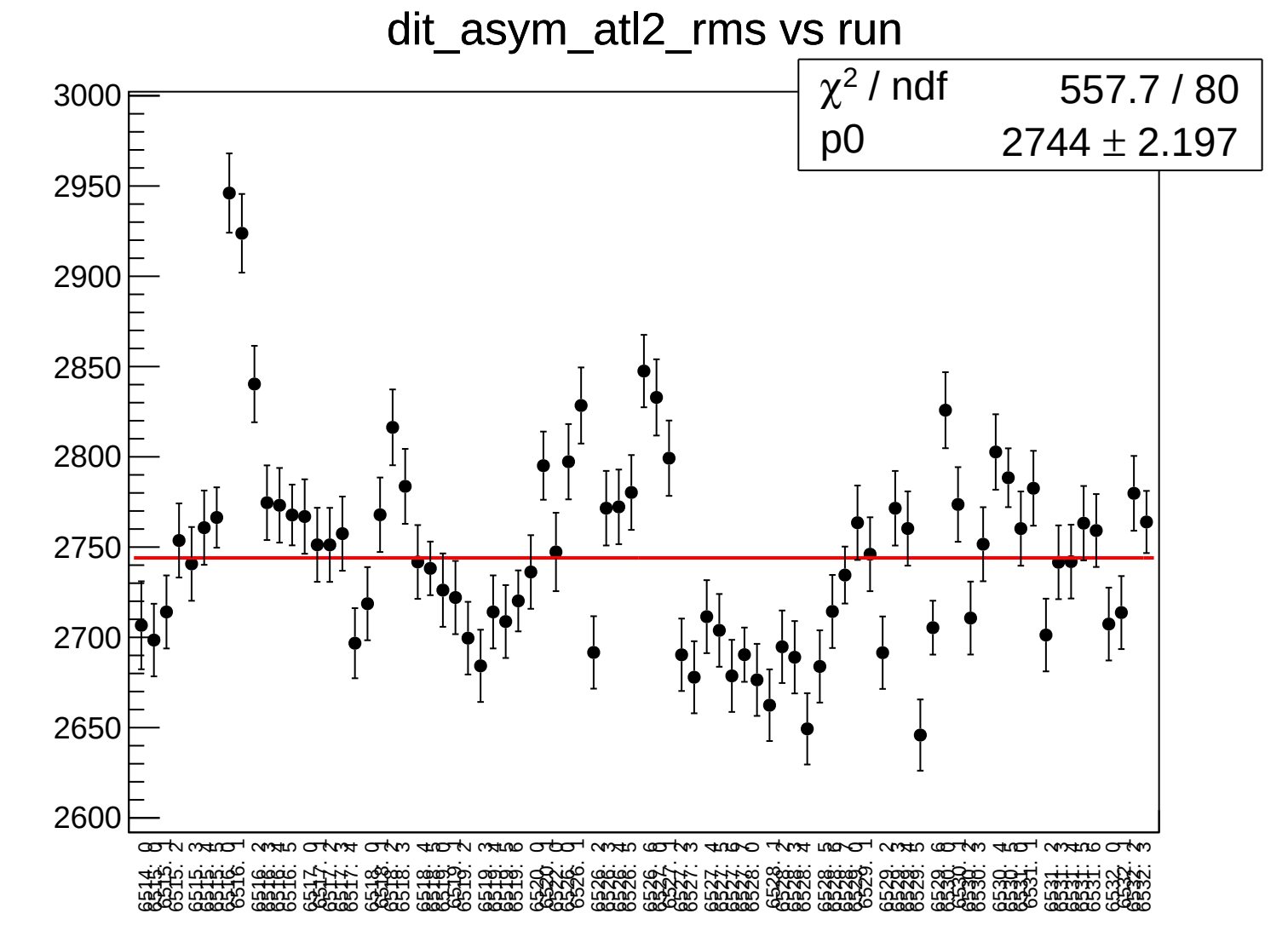

asym_atl2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 87.76 / 80
p0 9546 ± 1.088e+04
pull
Entries 81
Mean −80.03
Std Dev 0

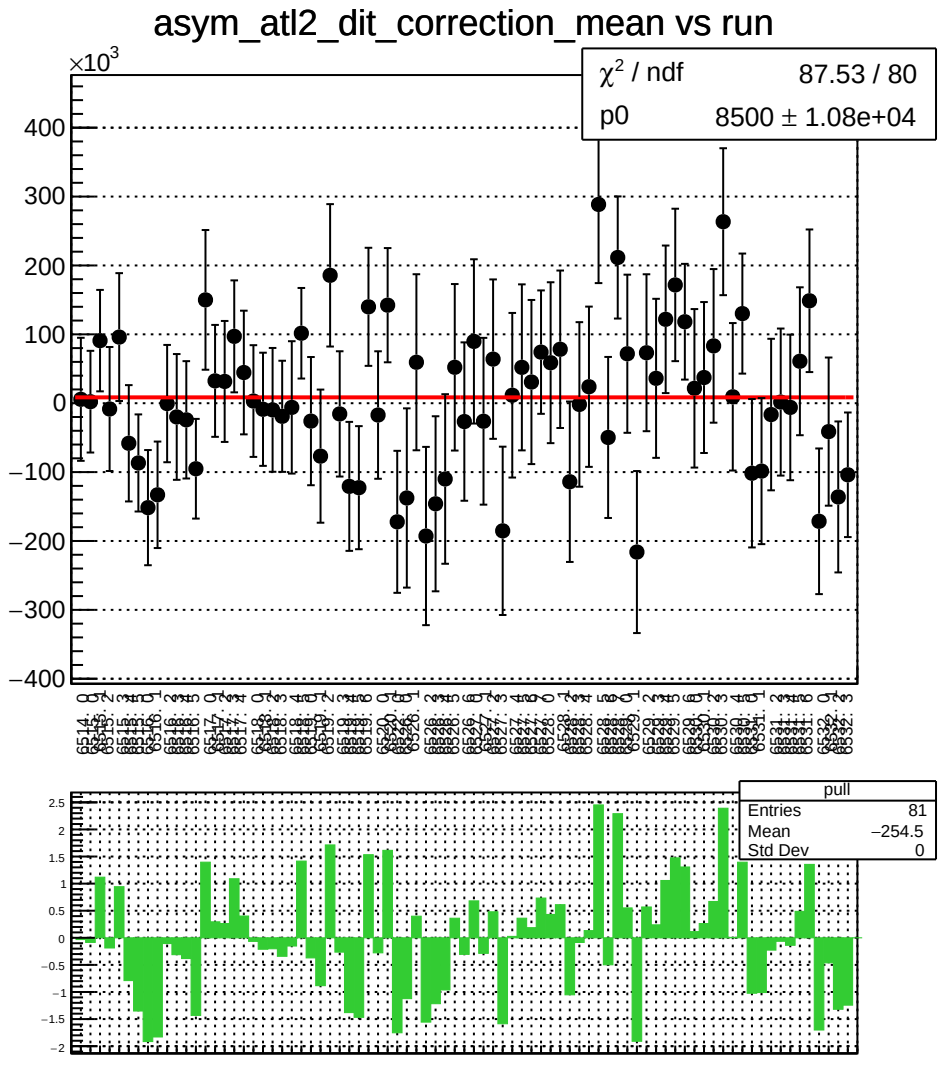

pull1D
Entries 81
Mean −0.01539
Std Dev 1.041

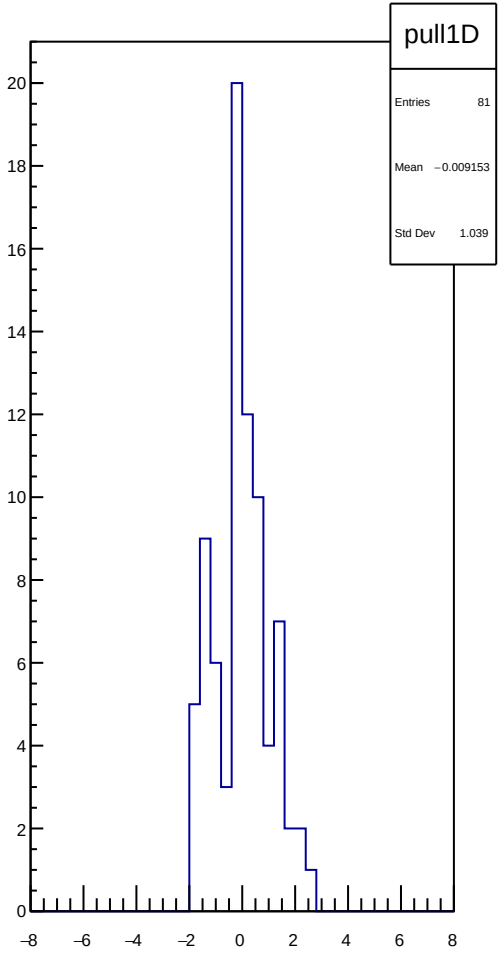

asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 2.93e+04 / 80
p0 9520 ± 7.692
13000
12000
11000
10000
9000
8000
7000

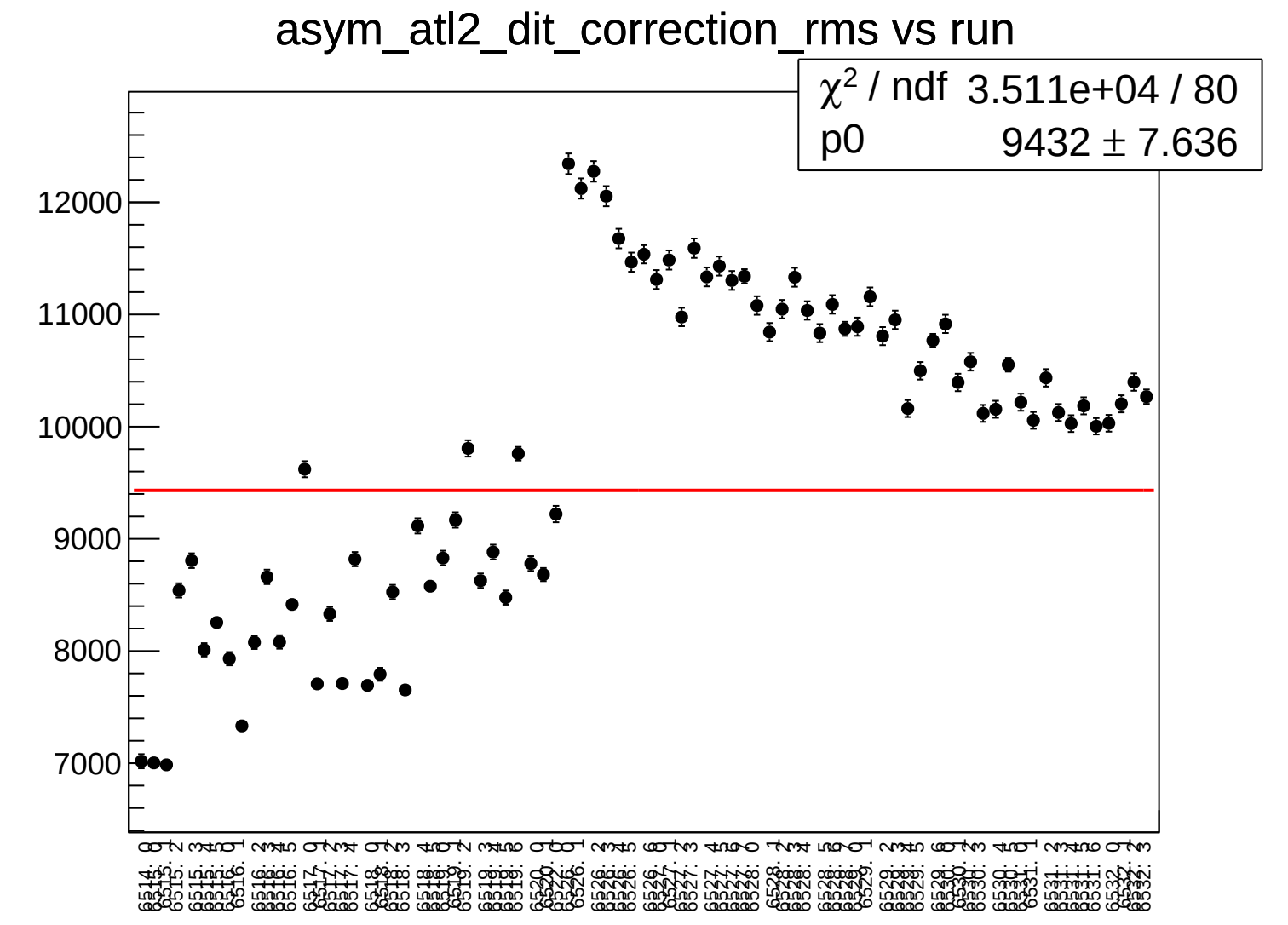

dit_asym_atl2_mean vs run
×10^3
χ^2 / ndf 78.87 / 80
p0 −1449 ± 3107
100
50
0
−50
−100
pull
Entries 81
Mean −765.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

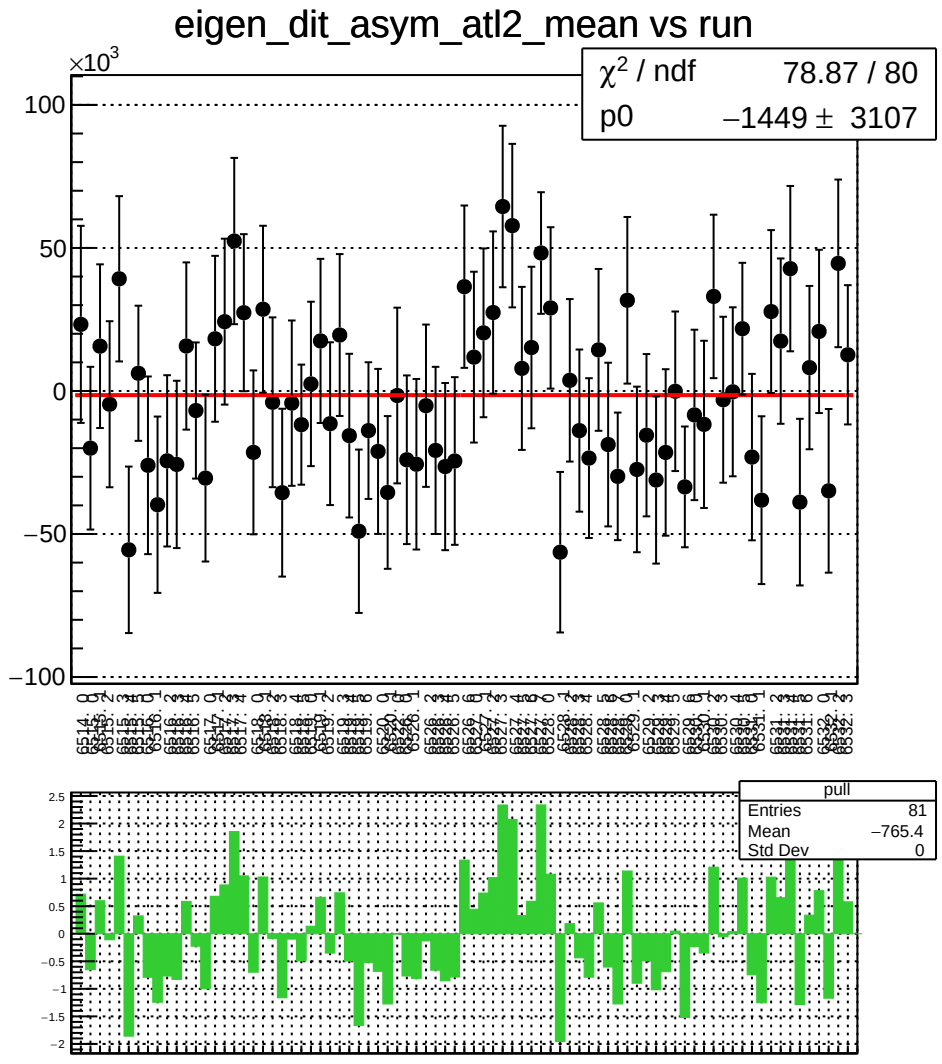

pull1D
Entries 81
Mean −0.002003
Std Dev 0.9868
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

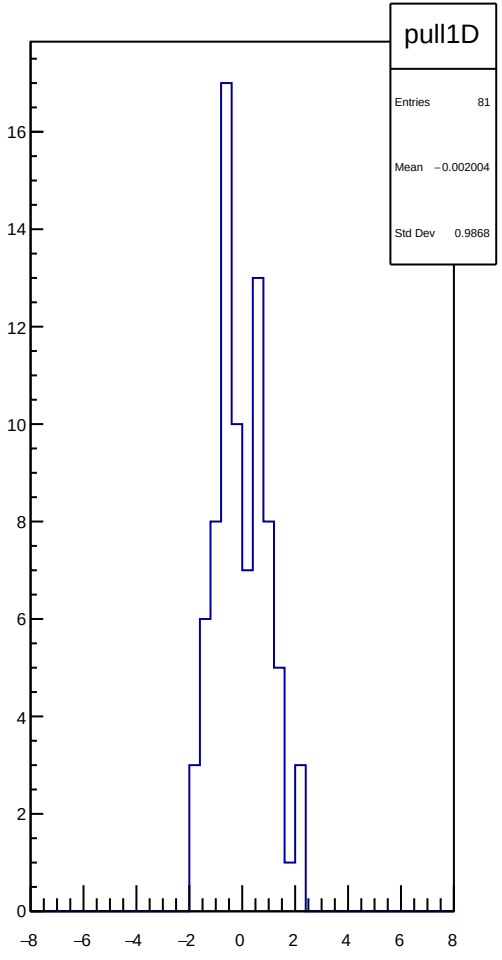

dit_asym_atl2_rms vs run
χ² / ndf 557.7 / 80
p0 2744 ± 2.197
3000
2950
2900
2850
2800
2750
2700
2650
2600

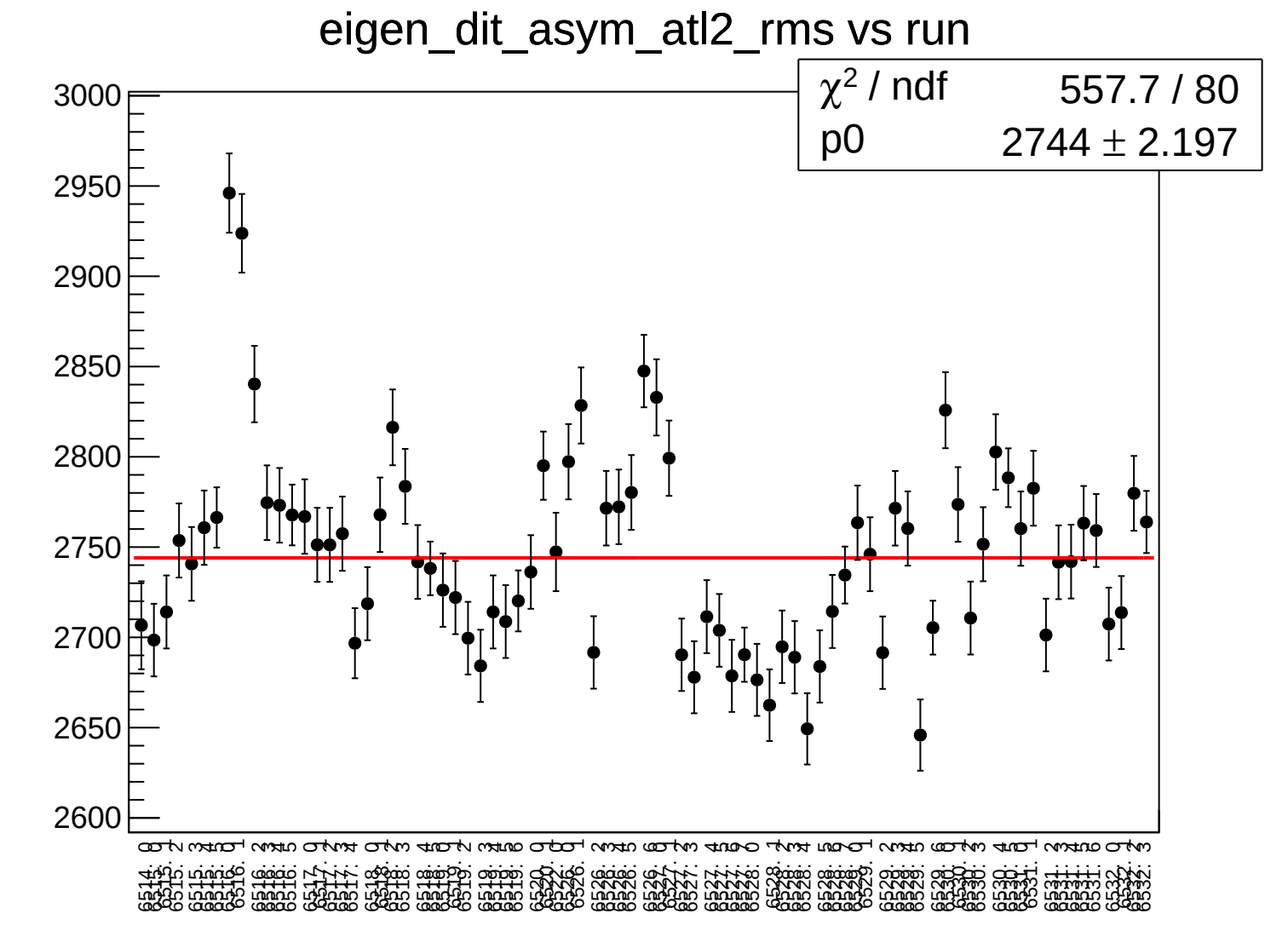

asym_atl2_dit_correction_mean vs run
×10^3
χ² / ndf 87.53 / 80
p0 8500 ± 1.08e+04
pull
Entries 81
Mean −254.5
Std Dev 0

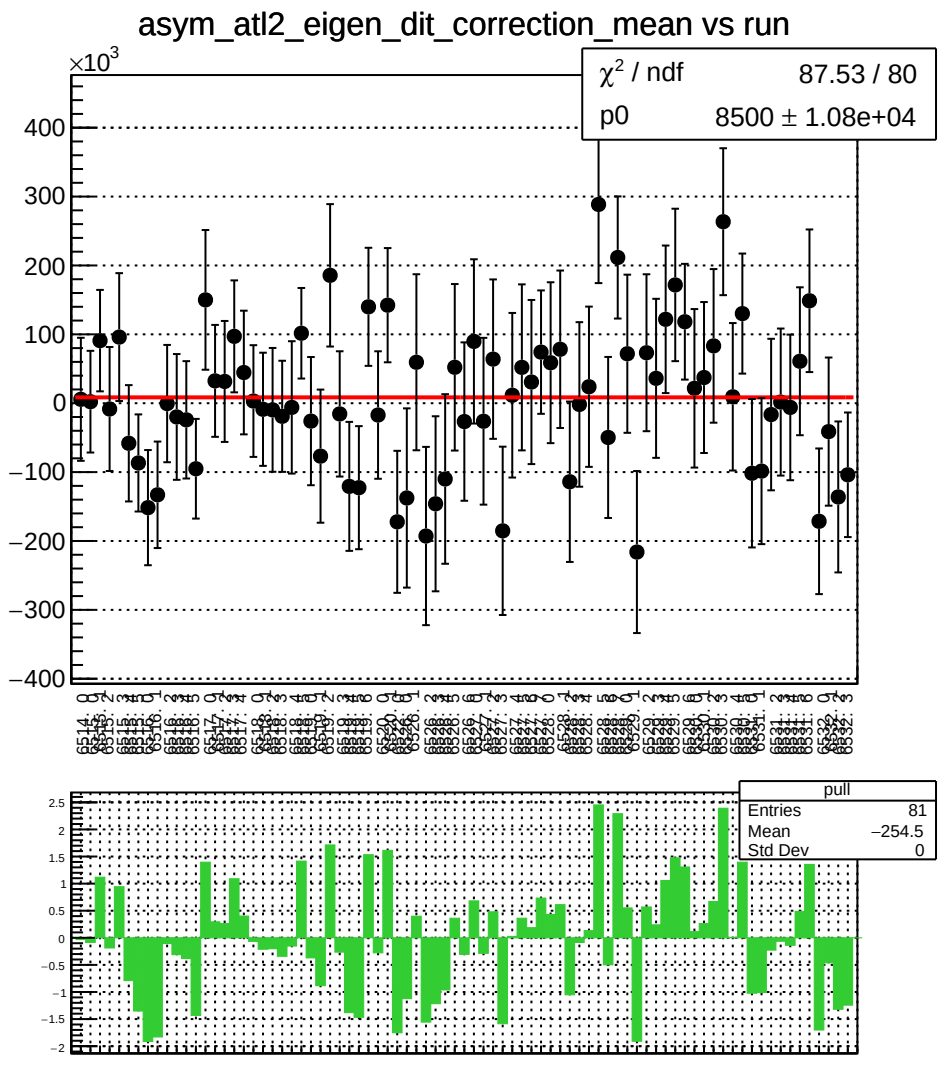

pull1D
Entries 81
Mean −0.009153
Std Dev 1.039

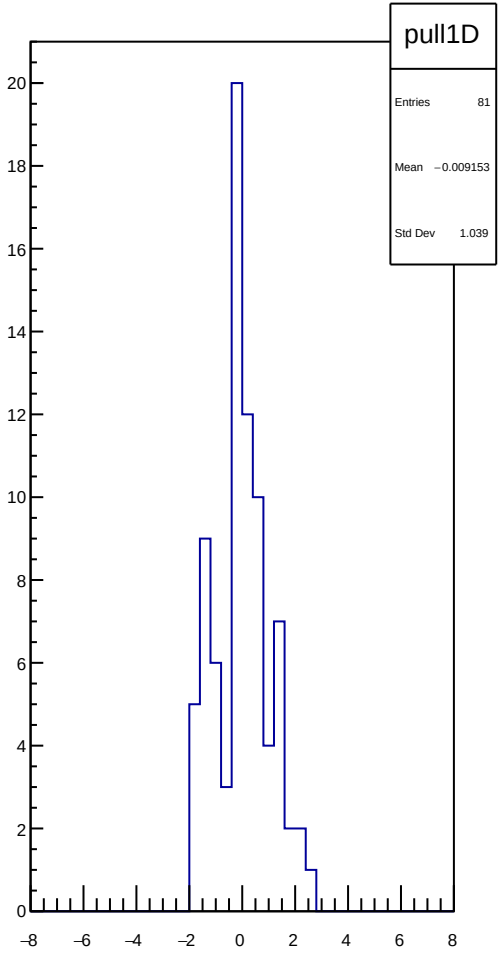

asym_atl2_dit_correction_rms vs run
χ² / ndf 3.511e+04 / 80
p0 9432 ± 7.636
12000
11000
10000
9000
8000
7000

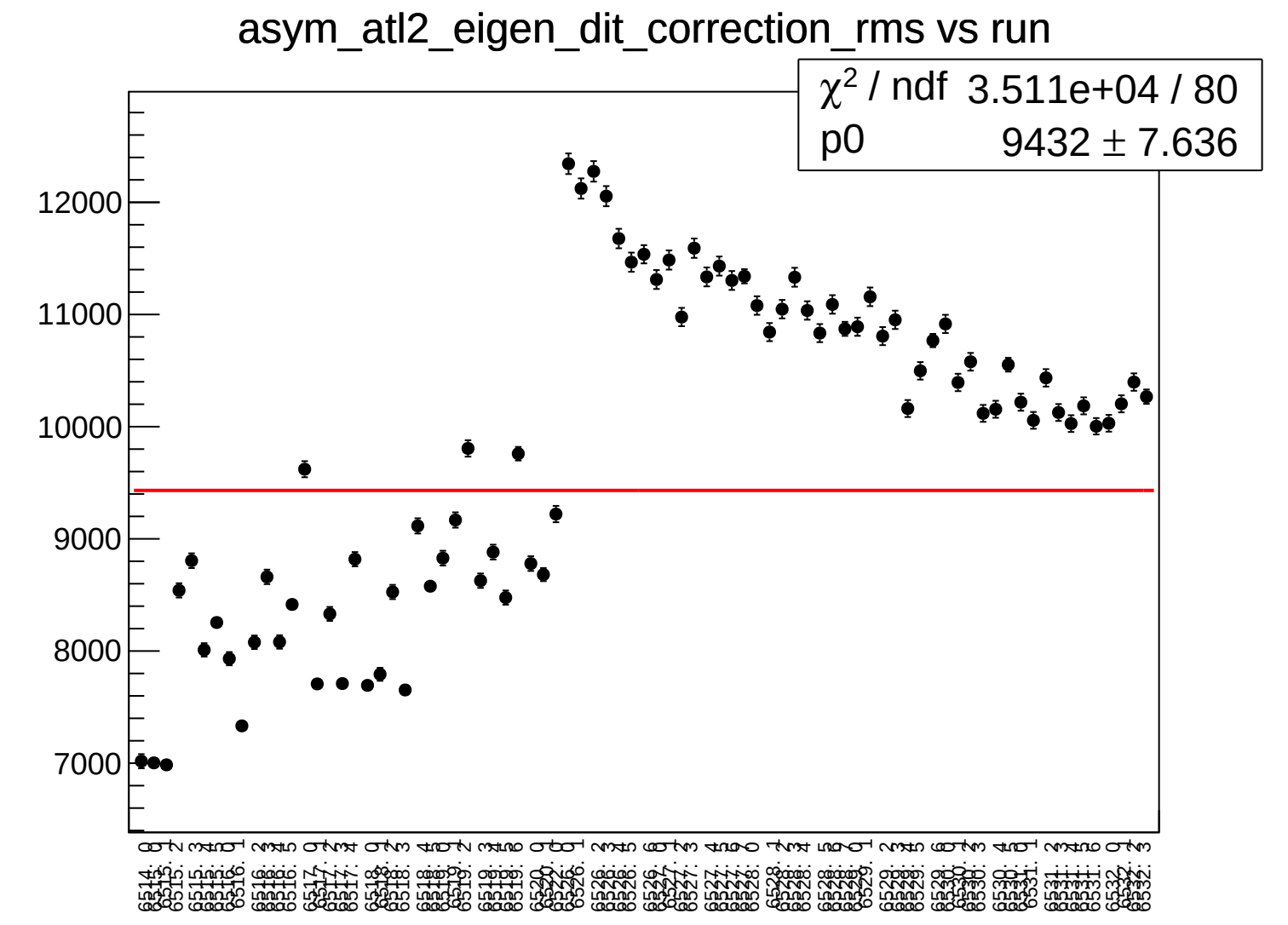

eigen_dit_asym_atl2_mean vs run
χ^2 / ndf 78.87 / 80
p0 −1449 ± 3107
×10^3
pull
Entries 81
Mean −765.4
Std Dev 0

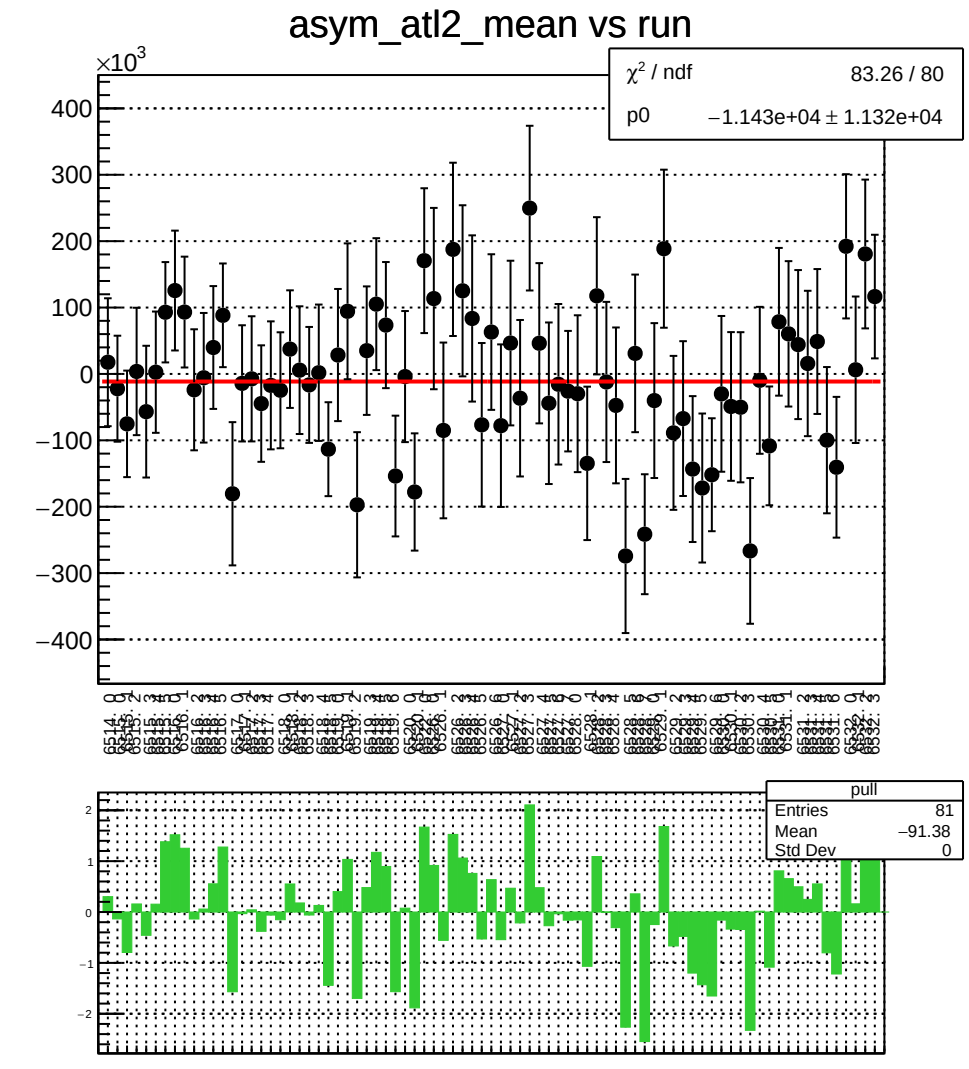

pull1D
Entries 81
Mean −0.002004
Std Dev 0.9868

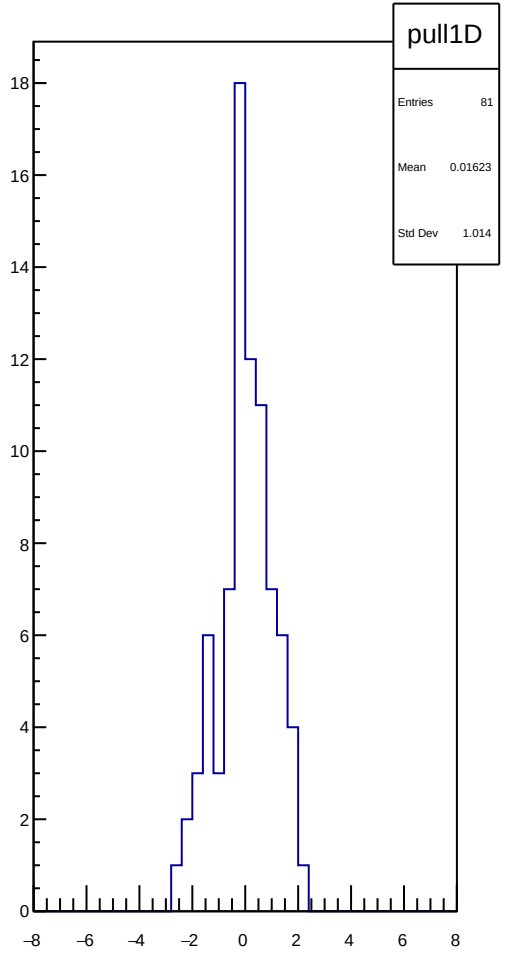

eigen_dit_asym_atl2_rms vs run
χ² / ndf 557.7 / 80
p0 2744 ± 2.197
3000
2950
2900
2850
2800
2750
2700
2650
2600

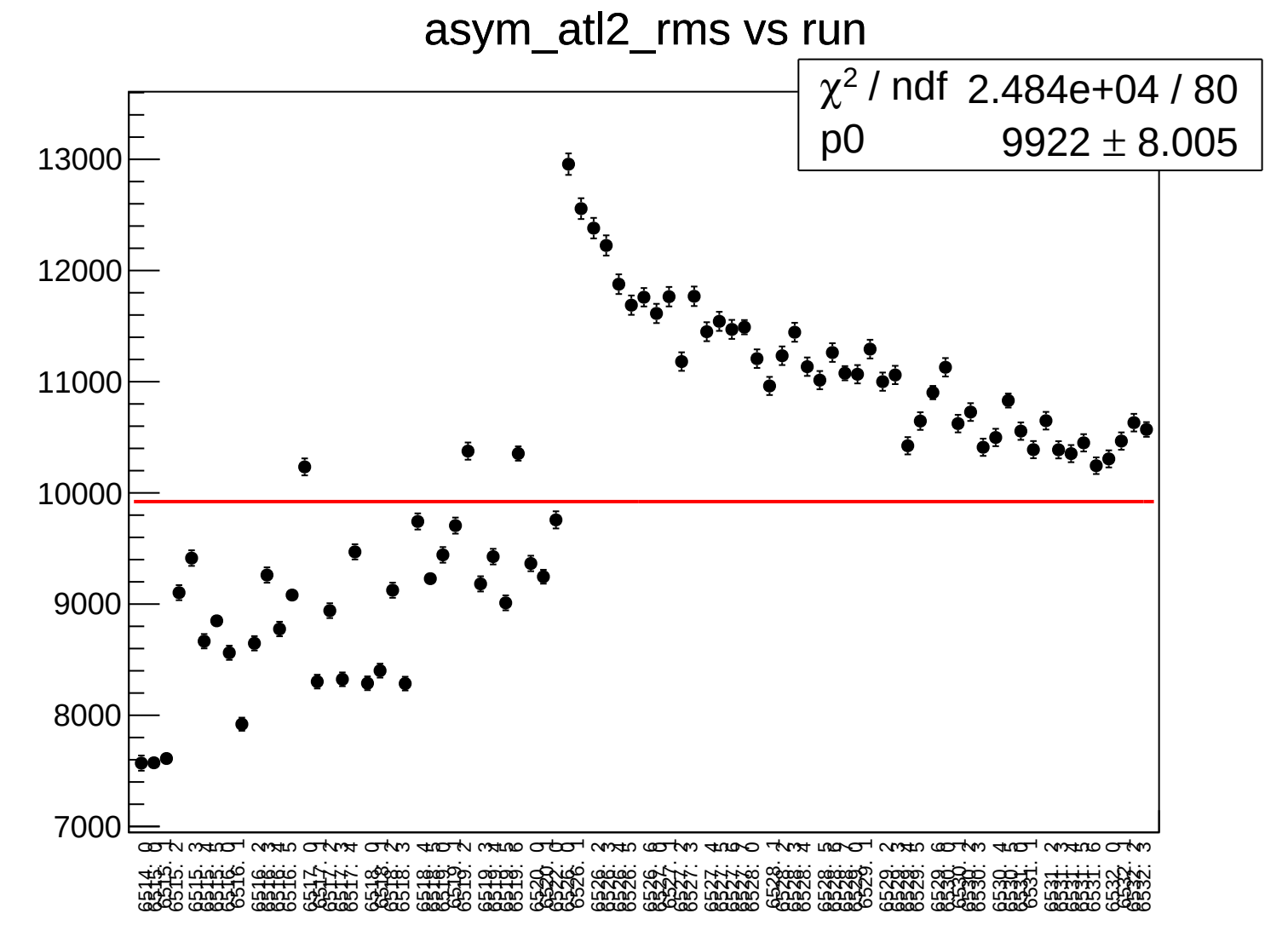

asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 87.53 / 80
p0 8500 ± 1.08e+04
pull
Entries 81
Mean −254.5
Std Dev 0

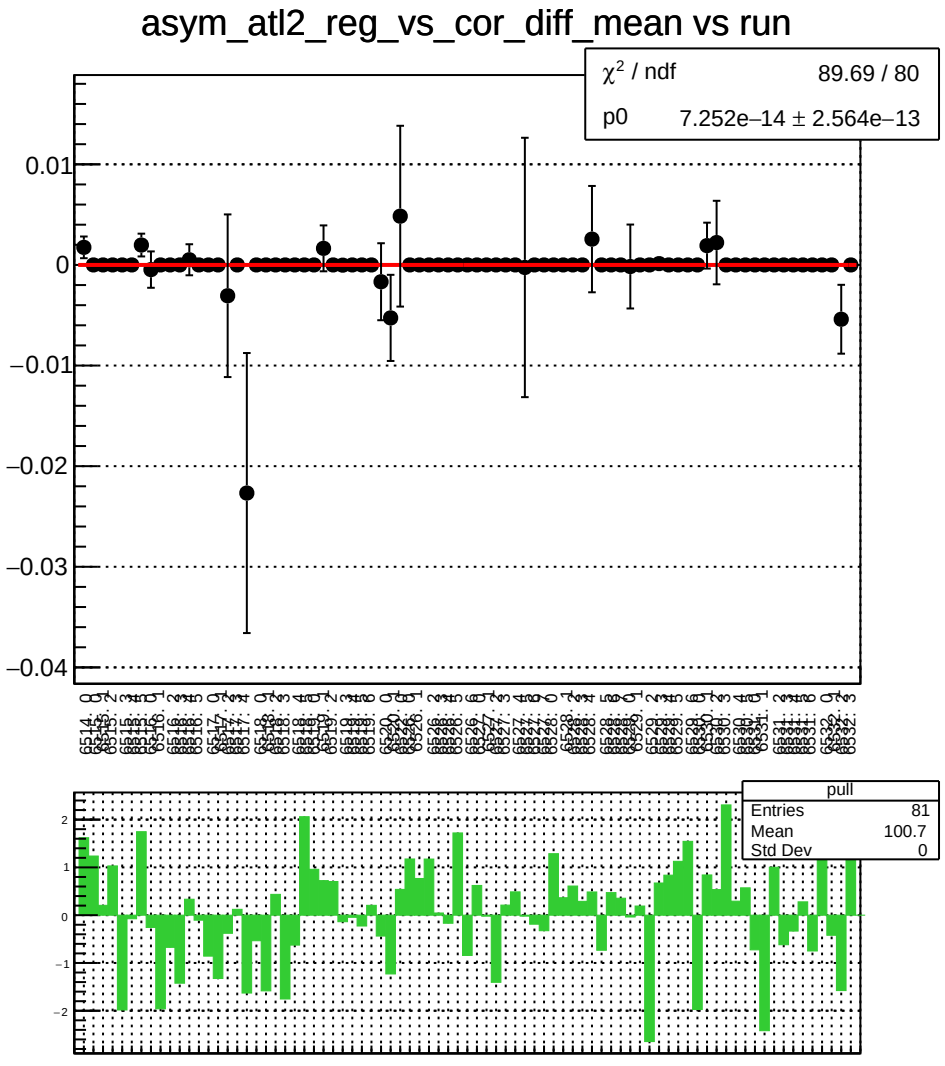

pull1D
Entries 81
Mean −0.009153
Std Dev 1.039

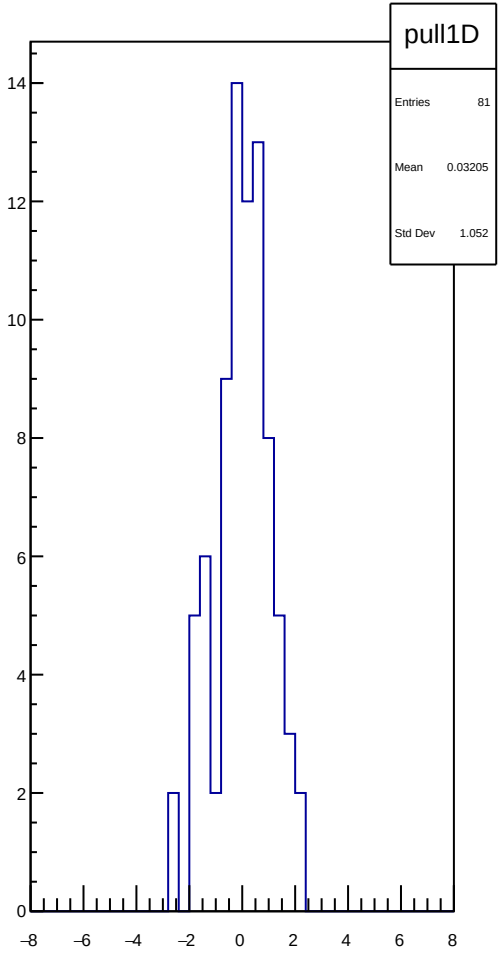

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 3.511e+04 / 80
p0 9432 ± 7.636
12000
11000
10000
9000
8000
7000

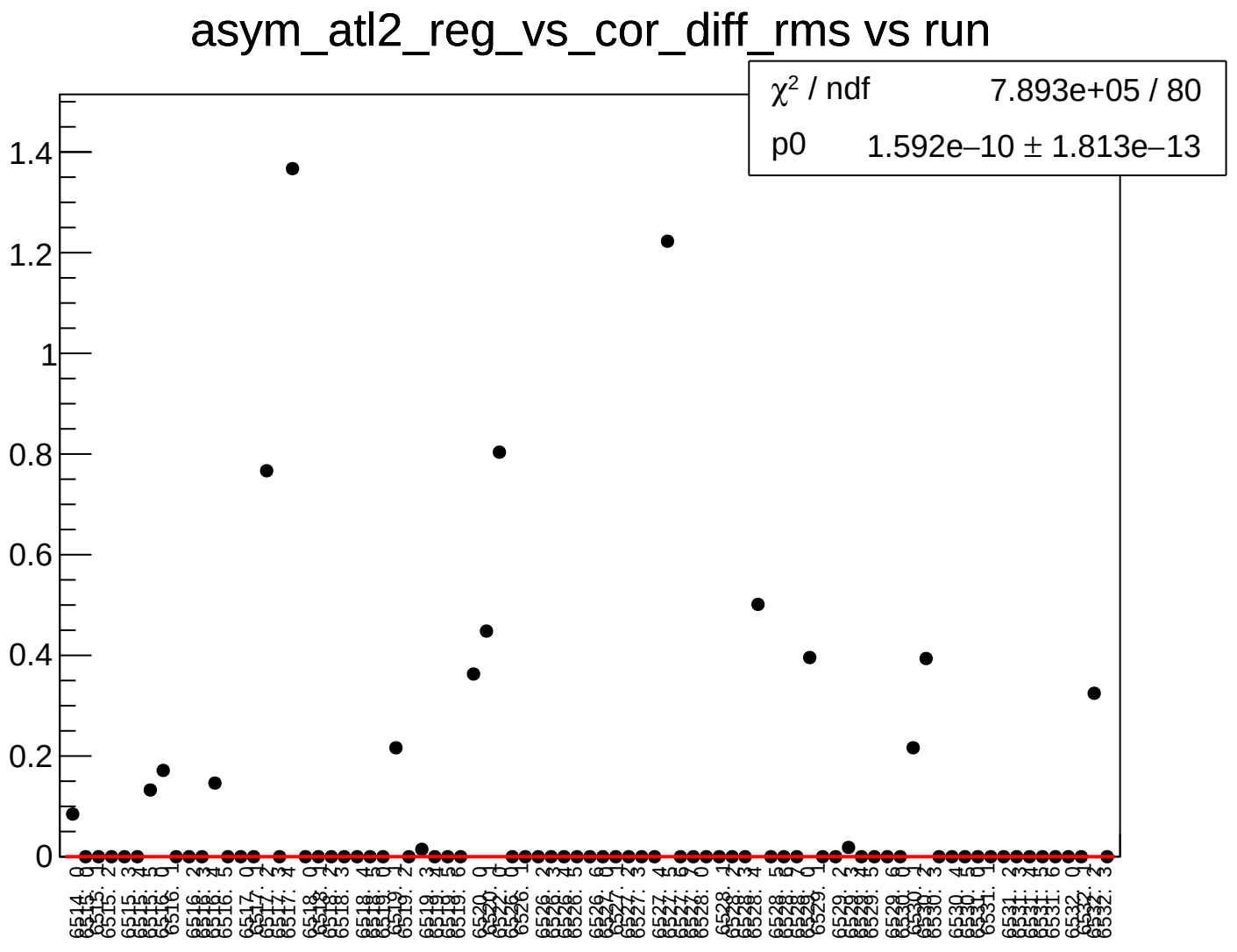

asym_atl2_mean vs run
×10^3
χ² / ndf 83.26 / 80
p0 −1.143e+04 ± 1.132e+04
pull
Entries 81
Mean −91.38
Std Dev 0

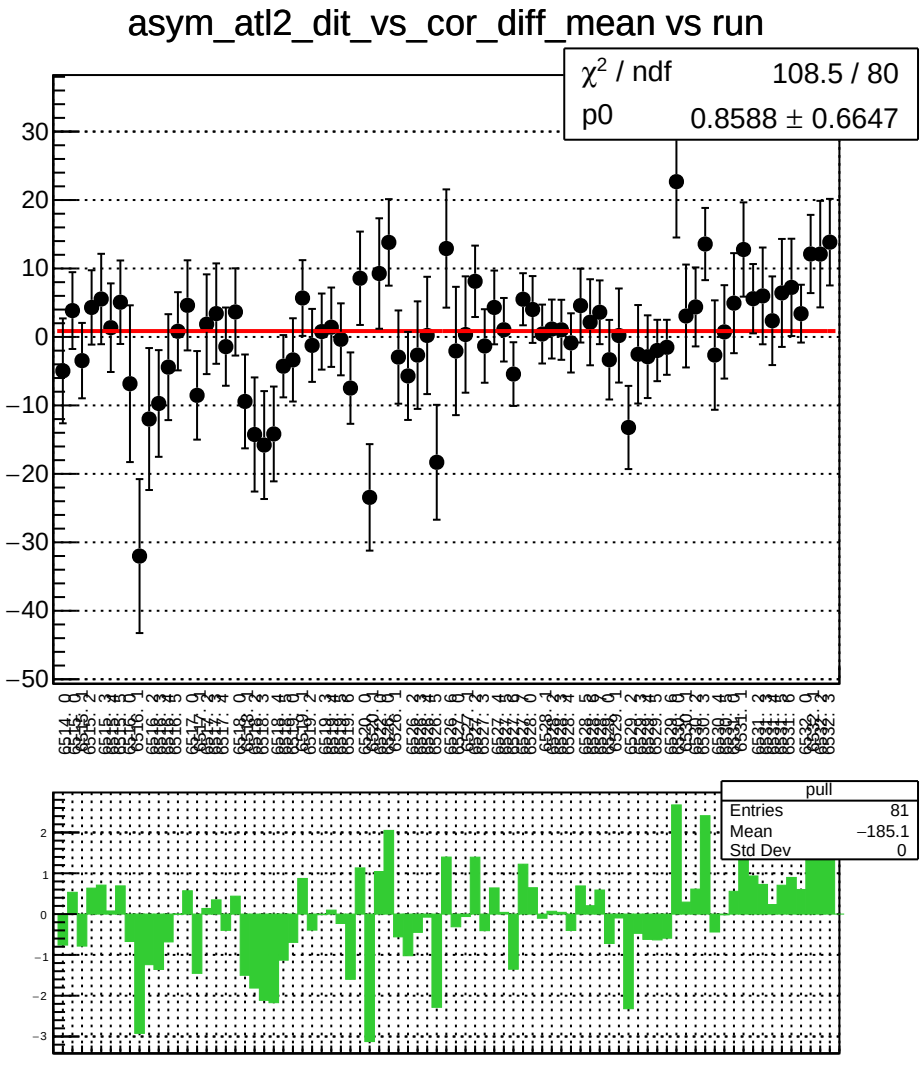

pull1D
Entries 81
Mean 0.01623
Std Dev 1.014

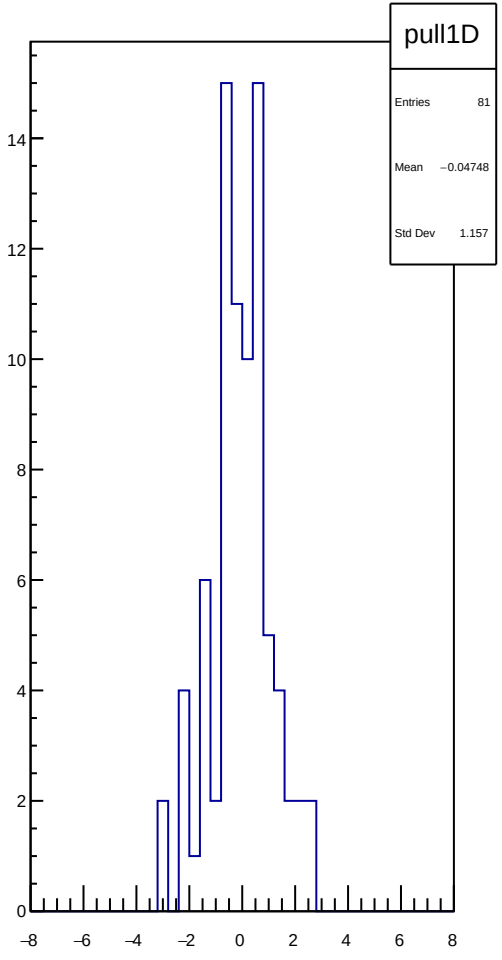

asym_atl2_rms vs run
χ² / ndf 2.484e+04 / 80
p0 9922 ± 8.005
13000
12000
11000
10000
9000
8000
7000

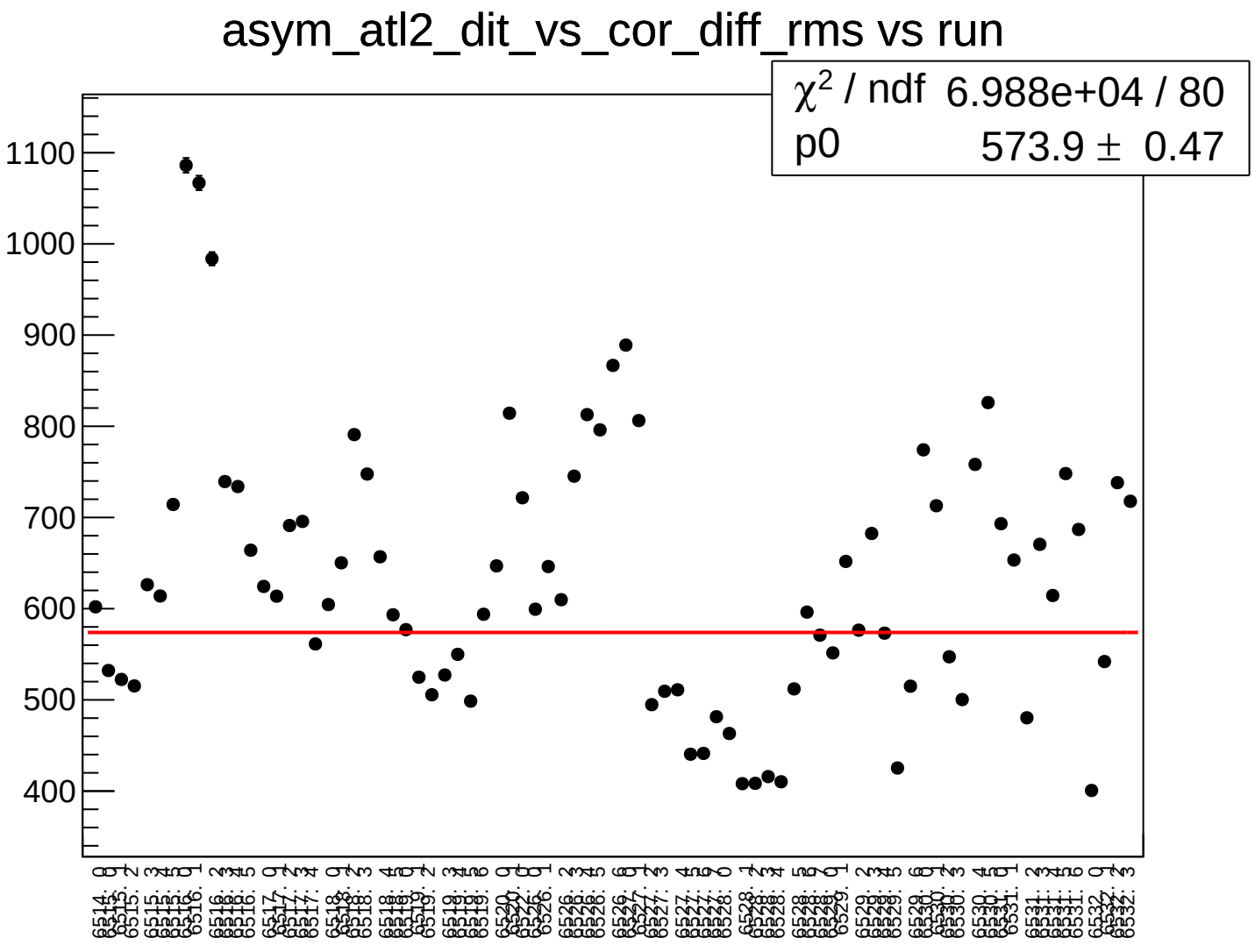

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 89.69 / 80
p0 7.252e−14 ± 2.564e−13
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 81
Mean 100.7
Std Dev 0
2
1
0
−1
−2

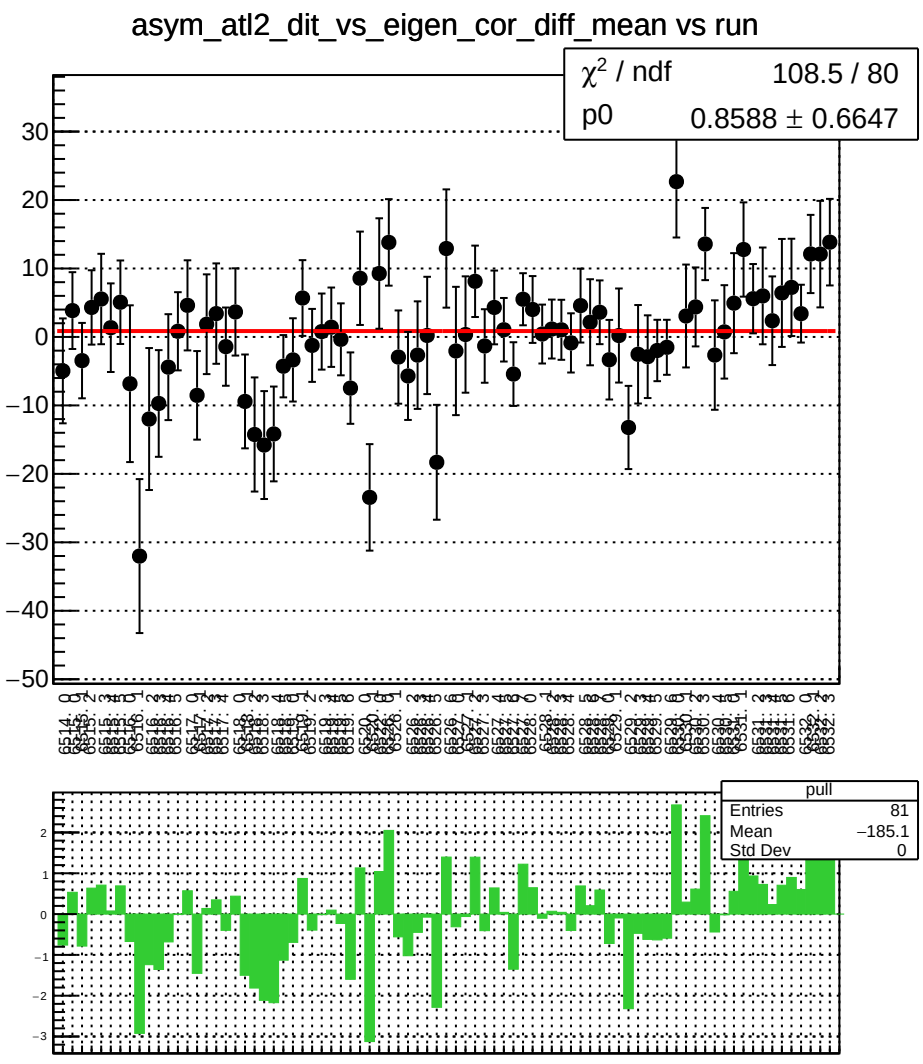

pull1D
Entries 81
Mean 0.03205
Std Dev 1.052
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

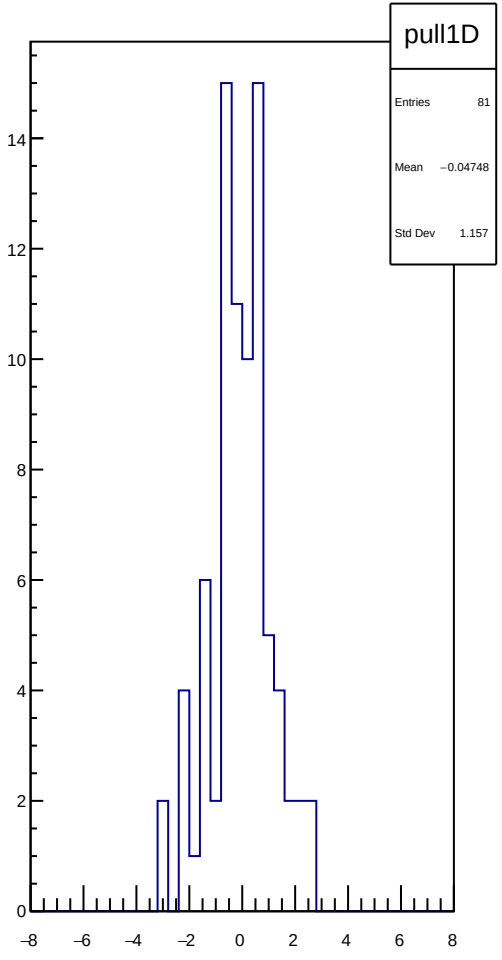

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 7.893e+05 / 80
p0 1.592e−10 ± 1.813e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

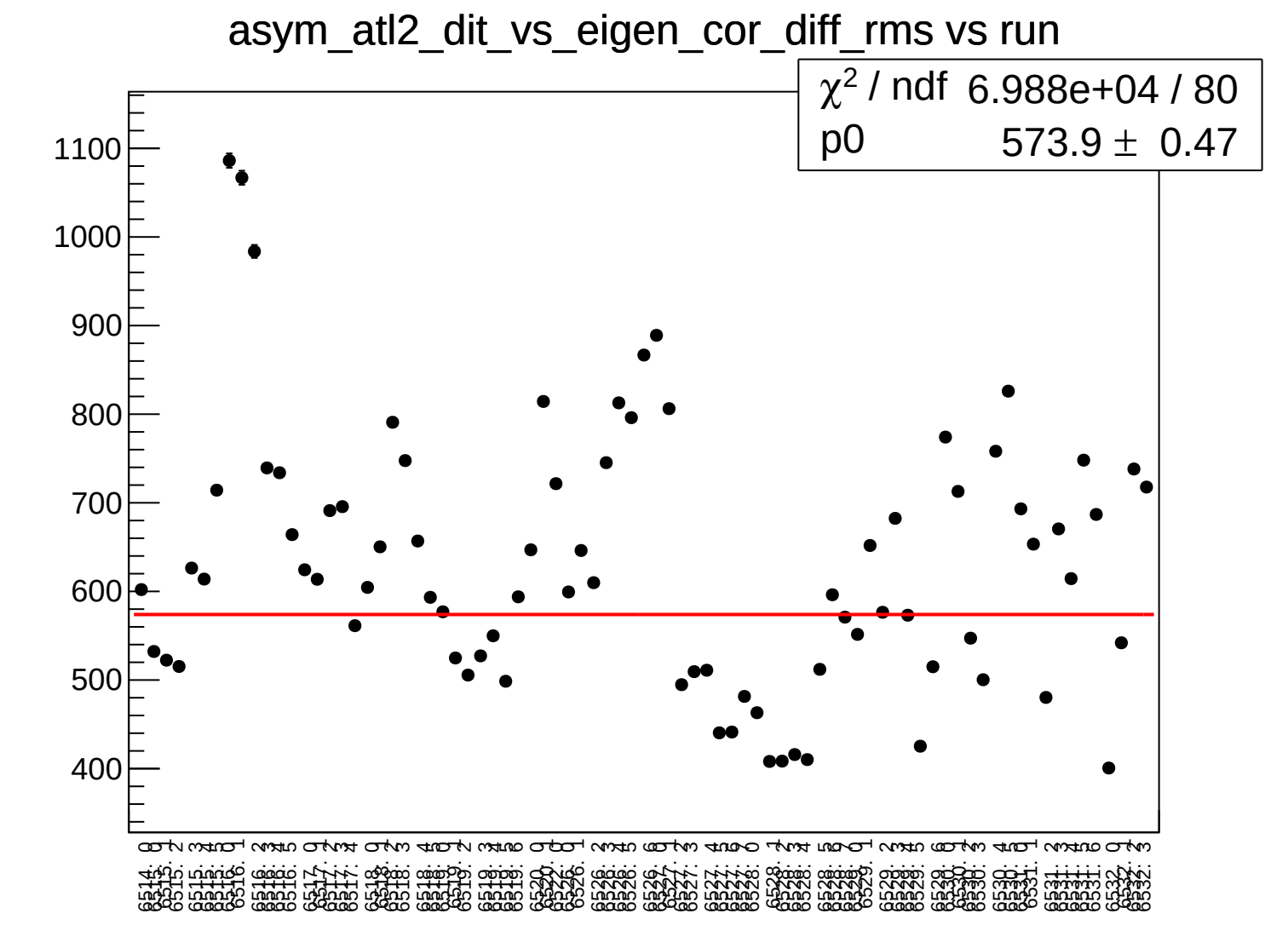

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 108.5 / 80
p0 0.8588 ± 0.6647
pull
Entries 81
Mean −185.1
Std Dev 0

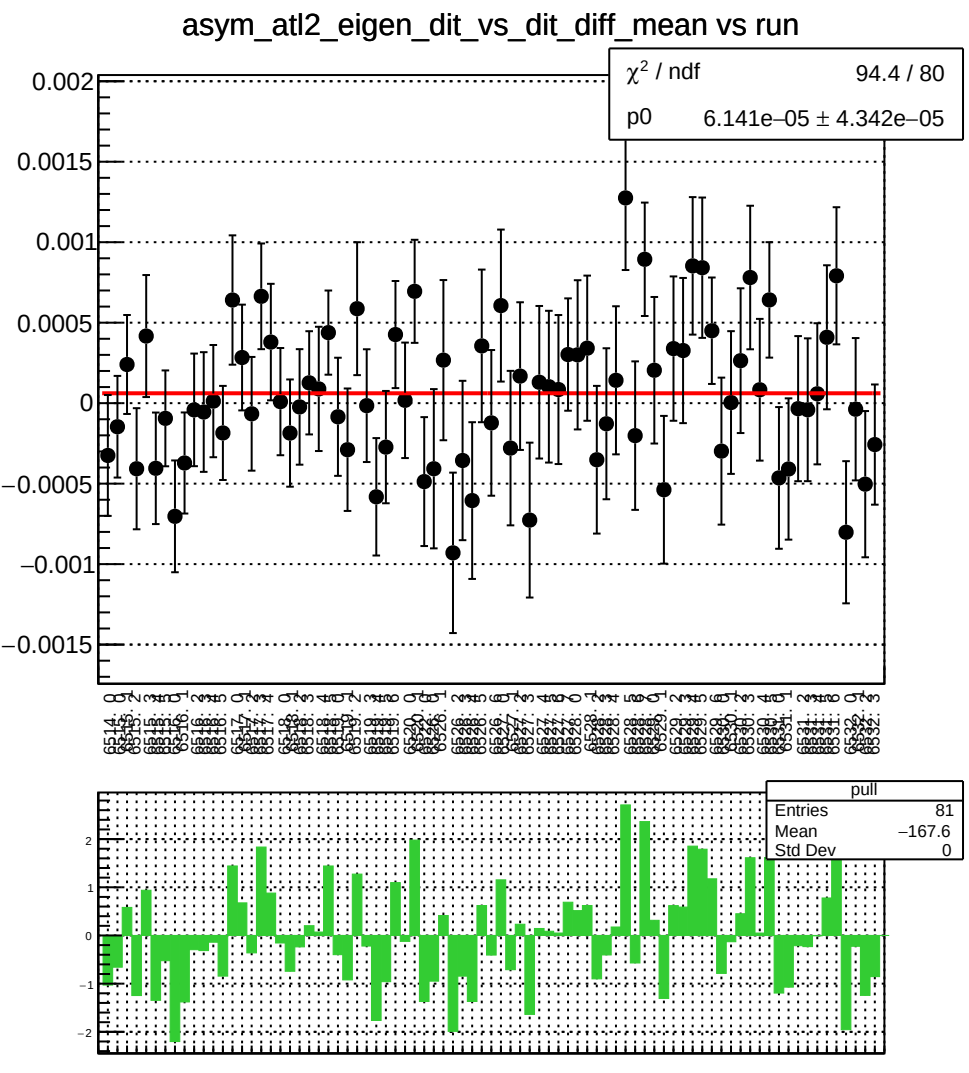

pull1D
Entries 81
Mean −0.04748
Std Dev 1.157

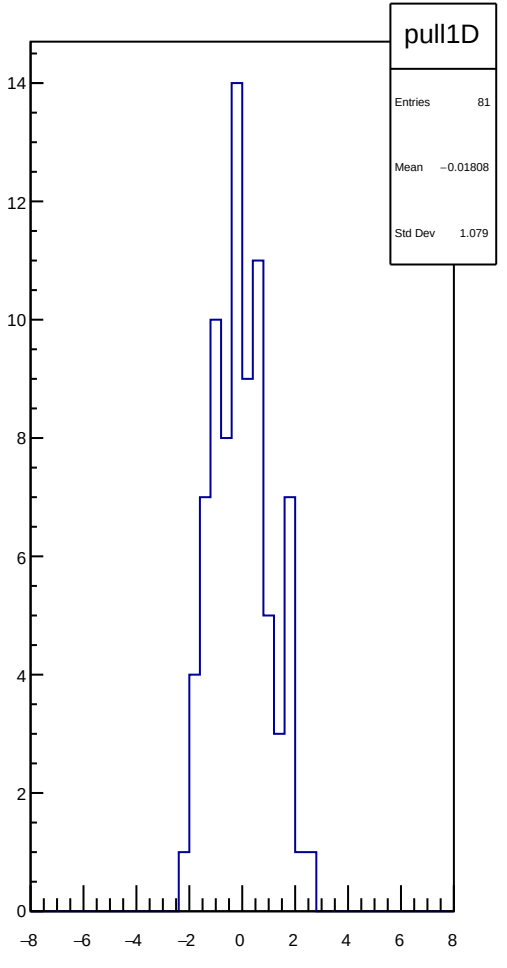

asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 6.988e+04 / 80
p0 573.9 ± 0.47
1100
1000
900
800
700
600
500
400

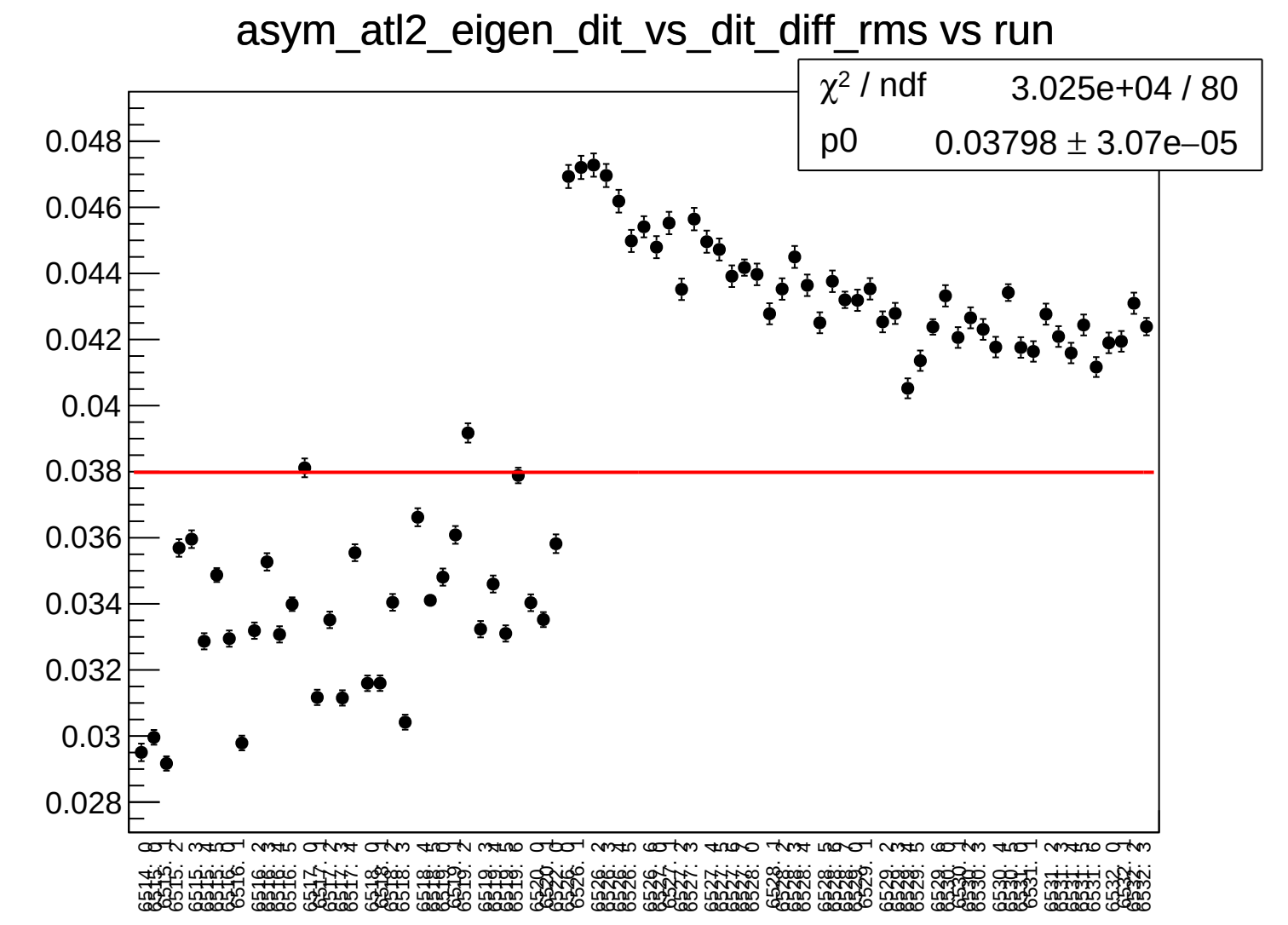

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.5 / 80
p0 0.8588 ± 0.6647
pull
Entries 81
Mean −185.1
Std Dev 0

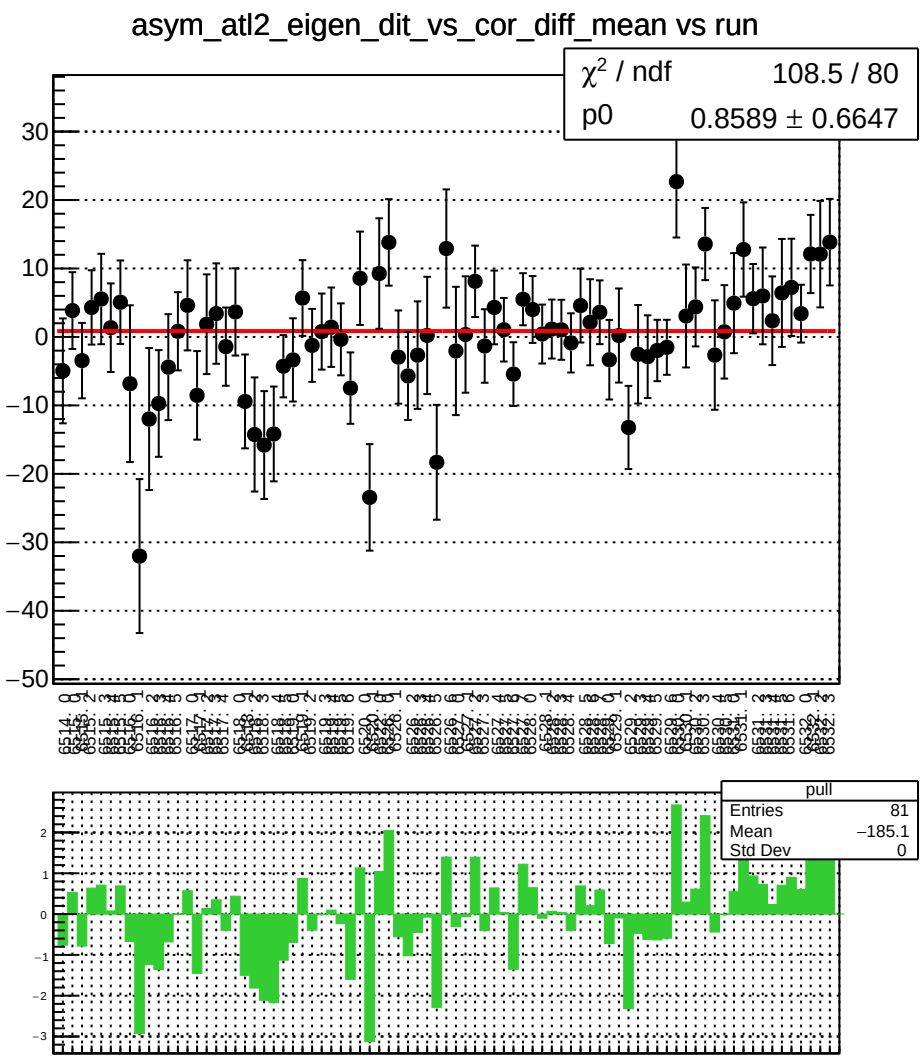

pull1D
Entries 81
Mean −0.04748
Std Dev 1.157

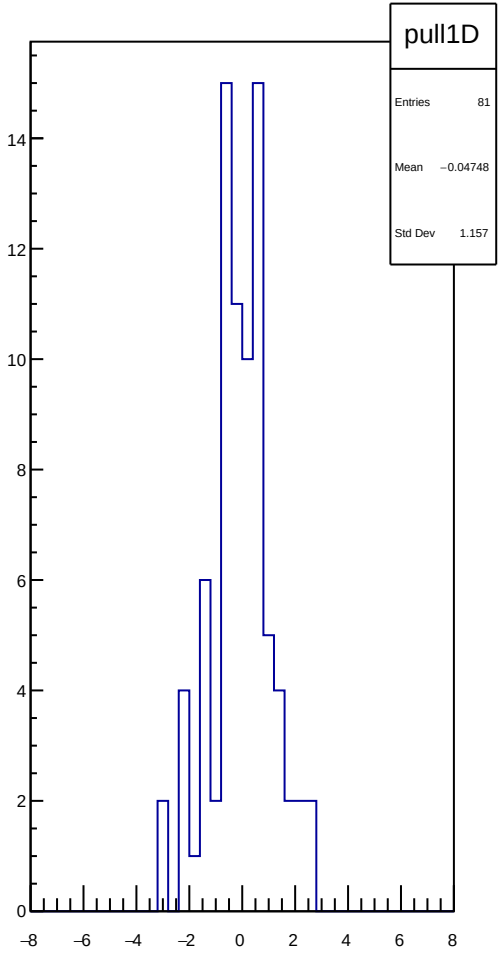

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.988e+04 / 80
p0 573.9 ± 0.47
1100
1000
900
800
700
600
500
400

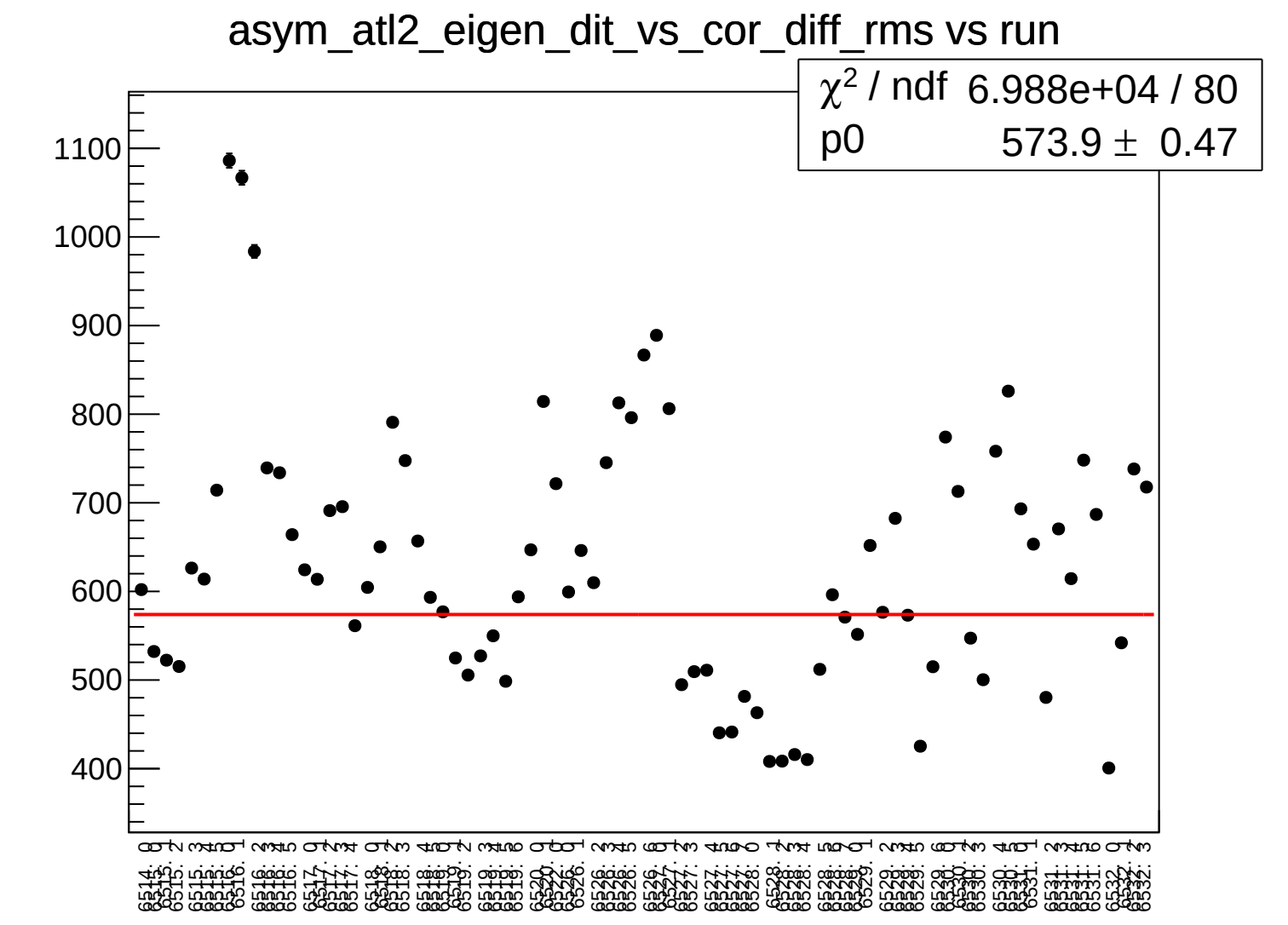

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 94.4 / 80
p0 6.141e−05 ± 4.342e−05
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 81
Mean −167.6
Std Dev 0
2
1
0
−1
−2

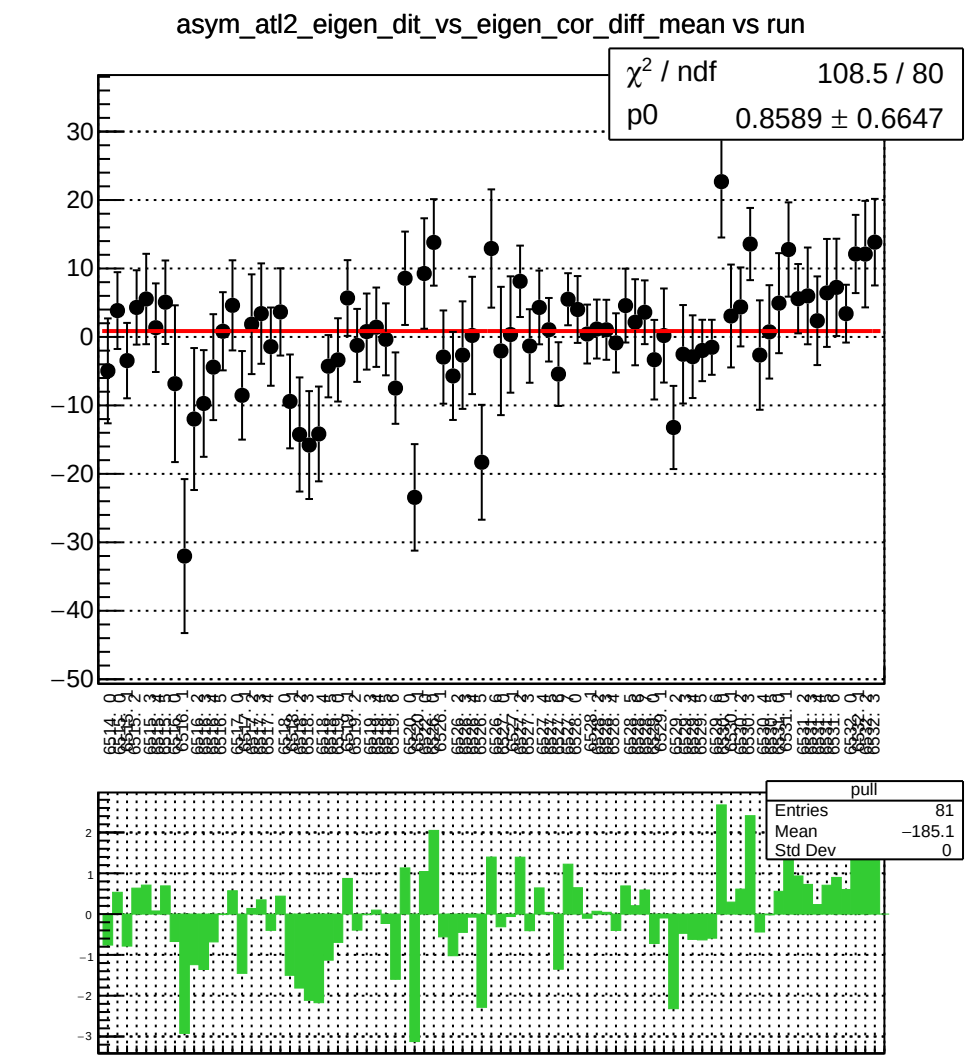

pull1D
Entries 81
Mean −0.01808
Std Dev 1.079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

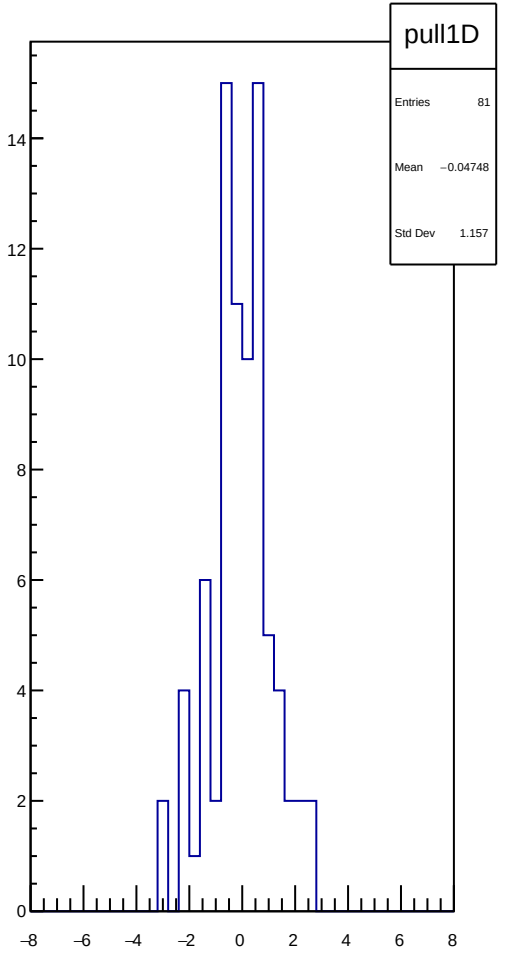

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.025e+04 / 80
p0 0.03798 ± 3.07e−05
0.048
0.046
0.044
0.042
0.04
0.038
0.036
0.034
0.032
0.03
0.028

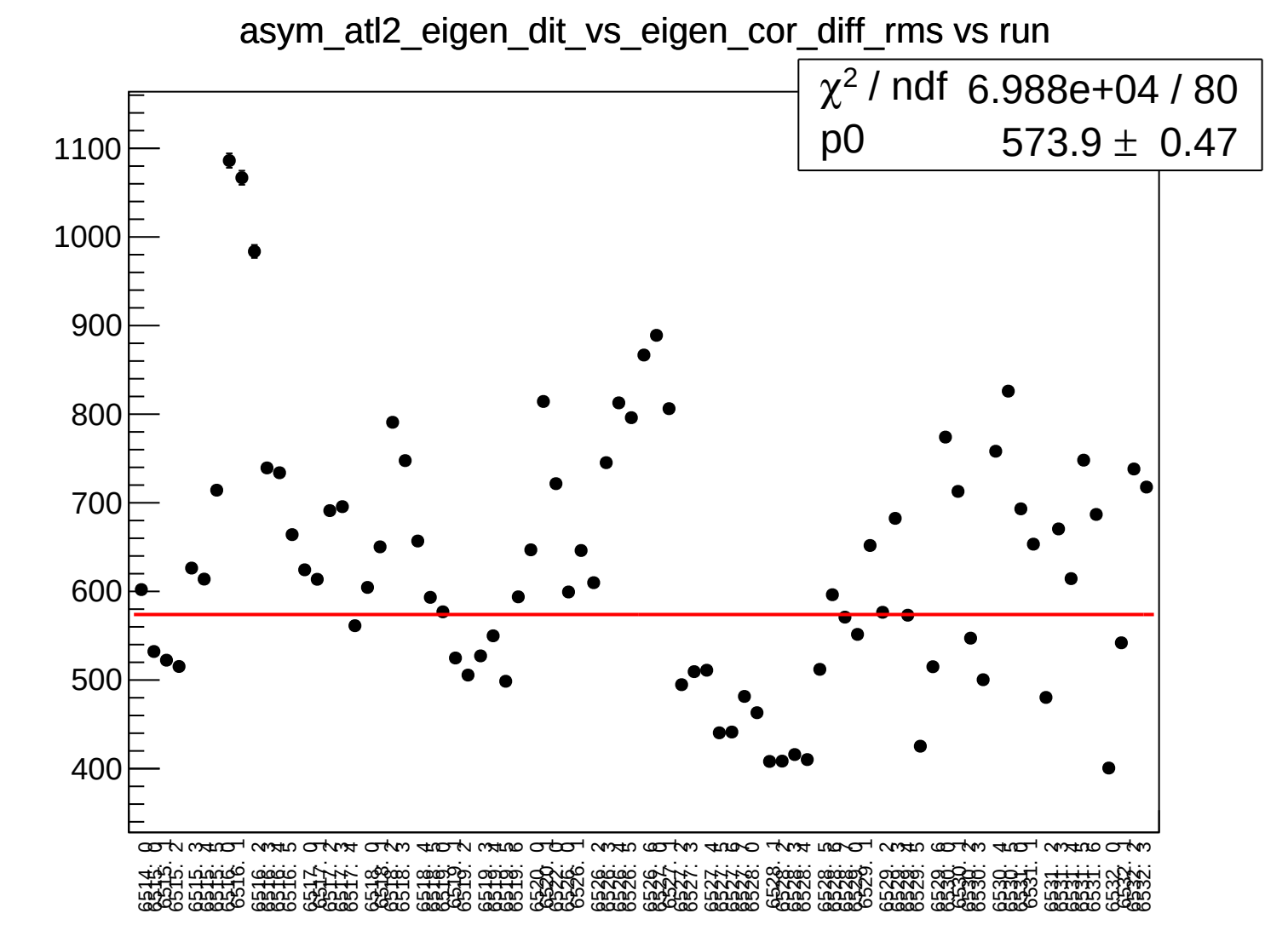

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 108.5 / 80
p0 0.8589 ± 0.6647
pull
Entries 81
Mean −185.1
Std Dev 0

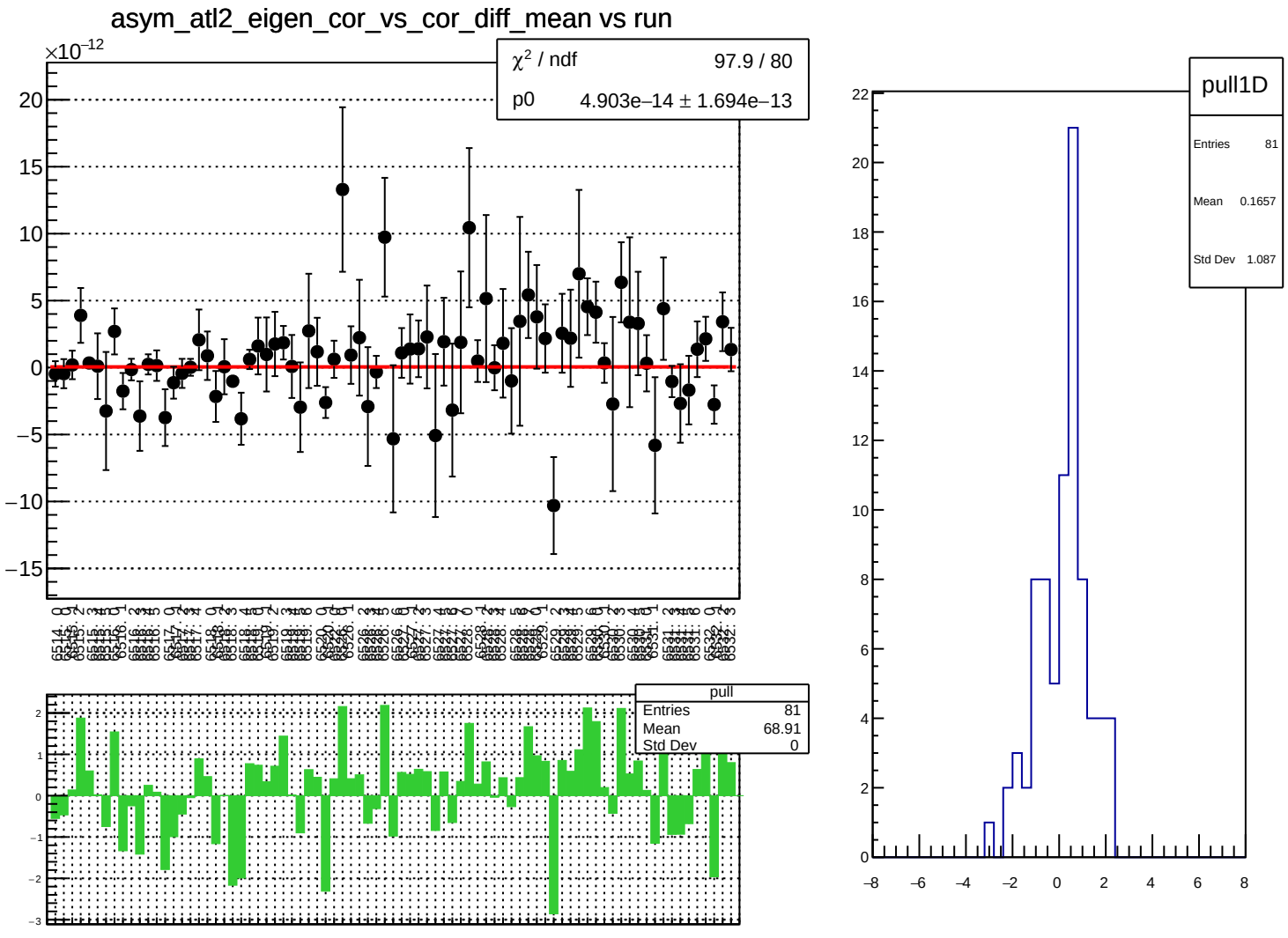

pull1D
Entries 81
Mean −0.04748
Std Dev 1.157

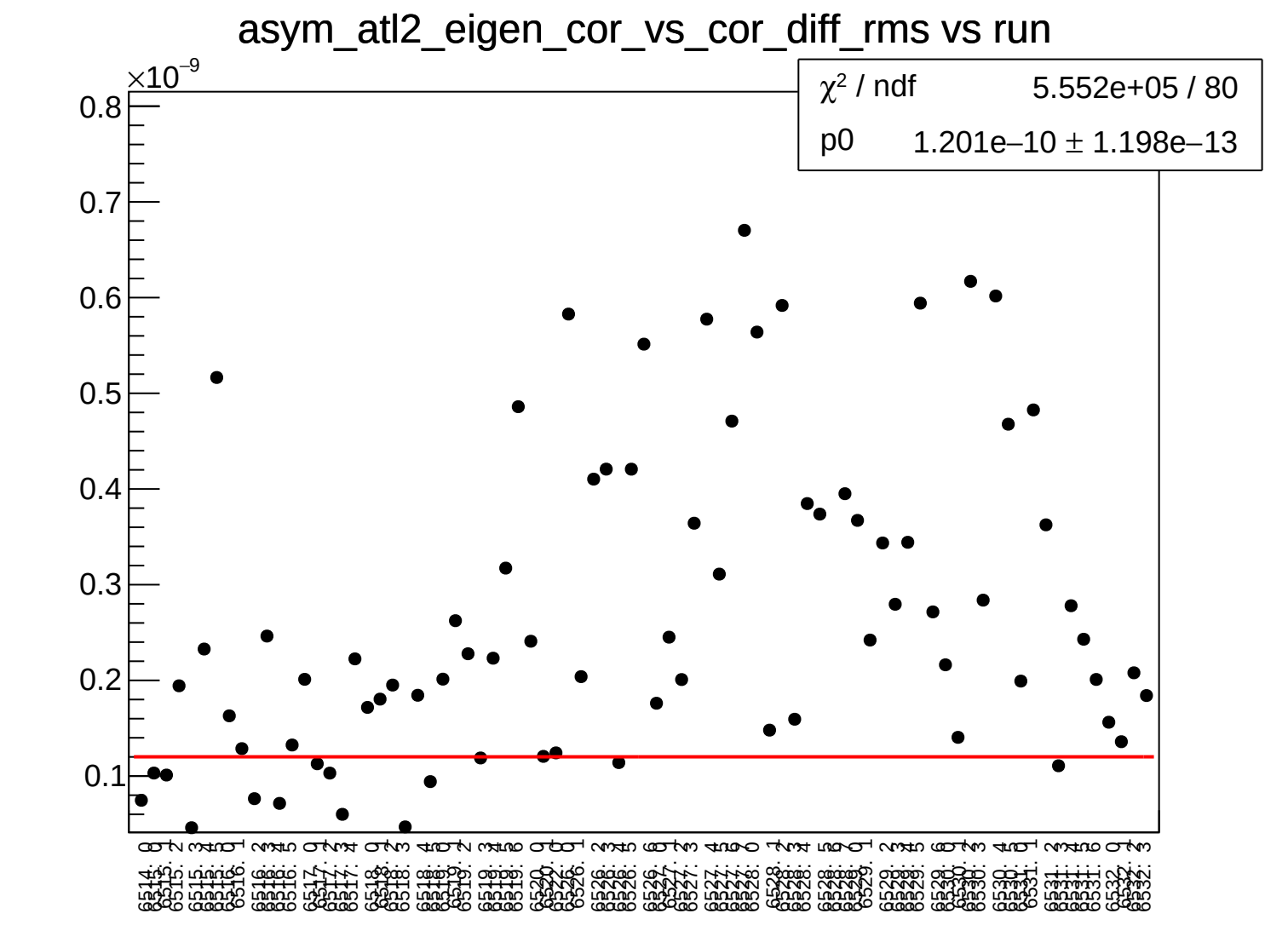

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.988e+04 / 80
p0 573.9 ± 0.47
1100
1000
900
800
700
600
500
400

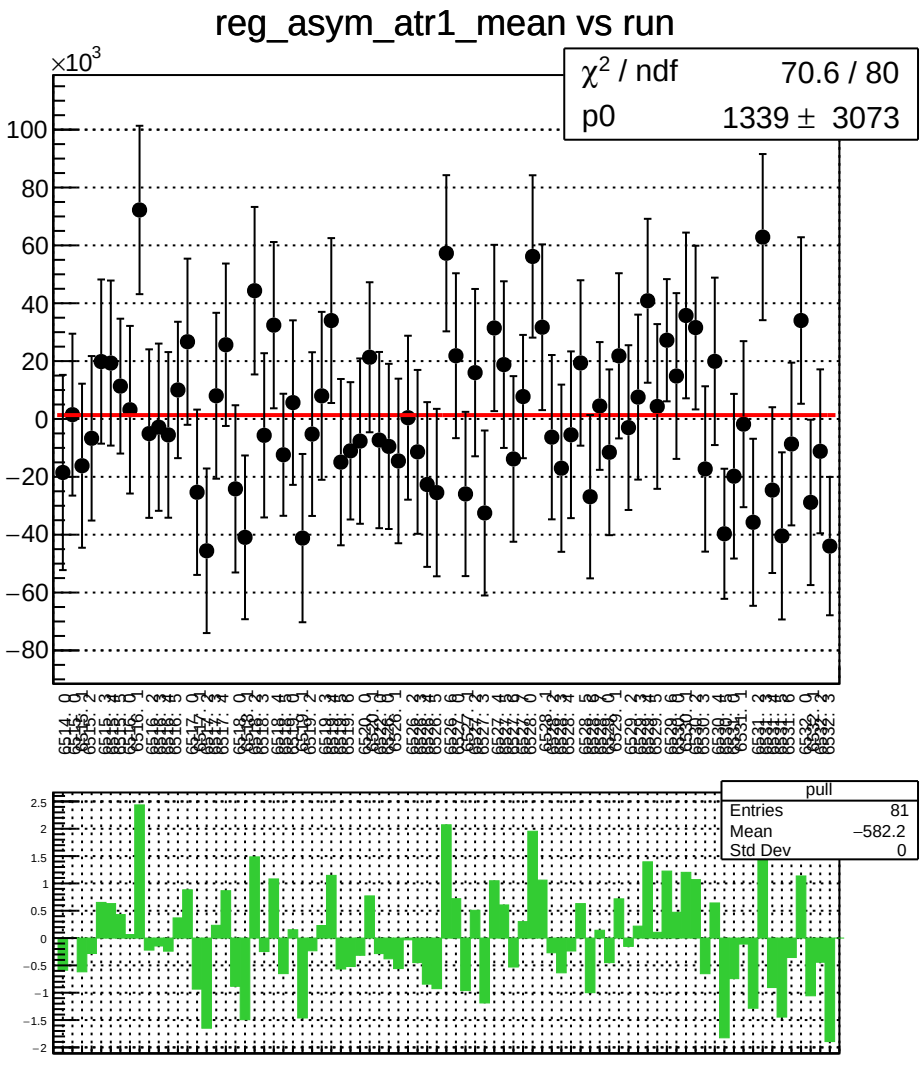

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.5 / 80
p0 0.8589 ± 0.6647
pull
Entries 81
Mean −185.1
Std Dev 0

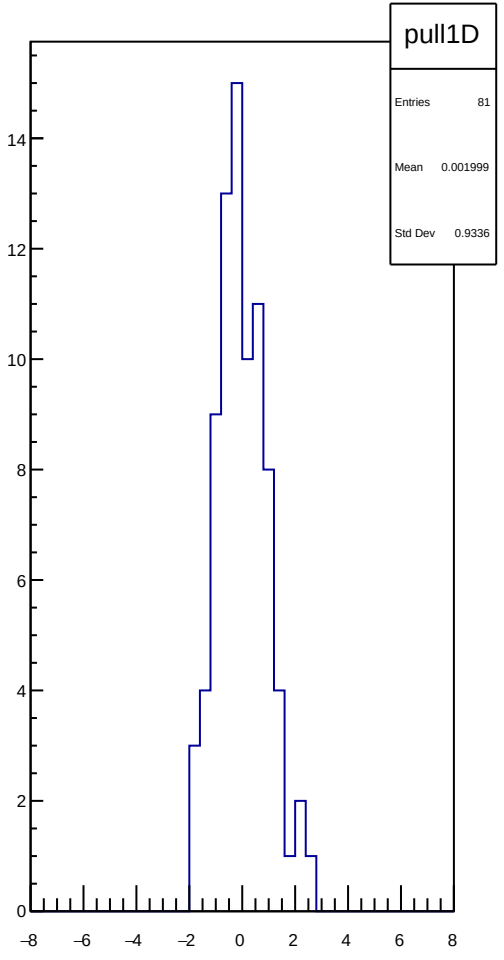

pull1D
Entries 81
Mean −0.04748
Std Dev 1.157

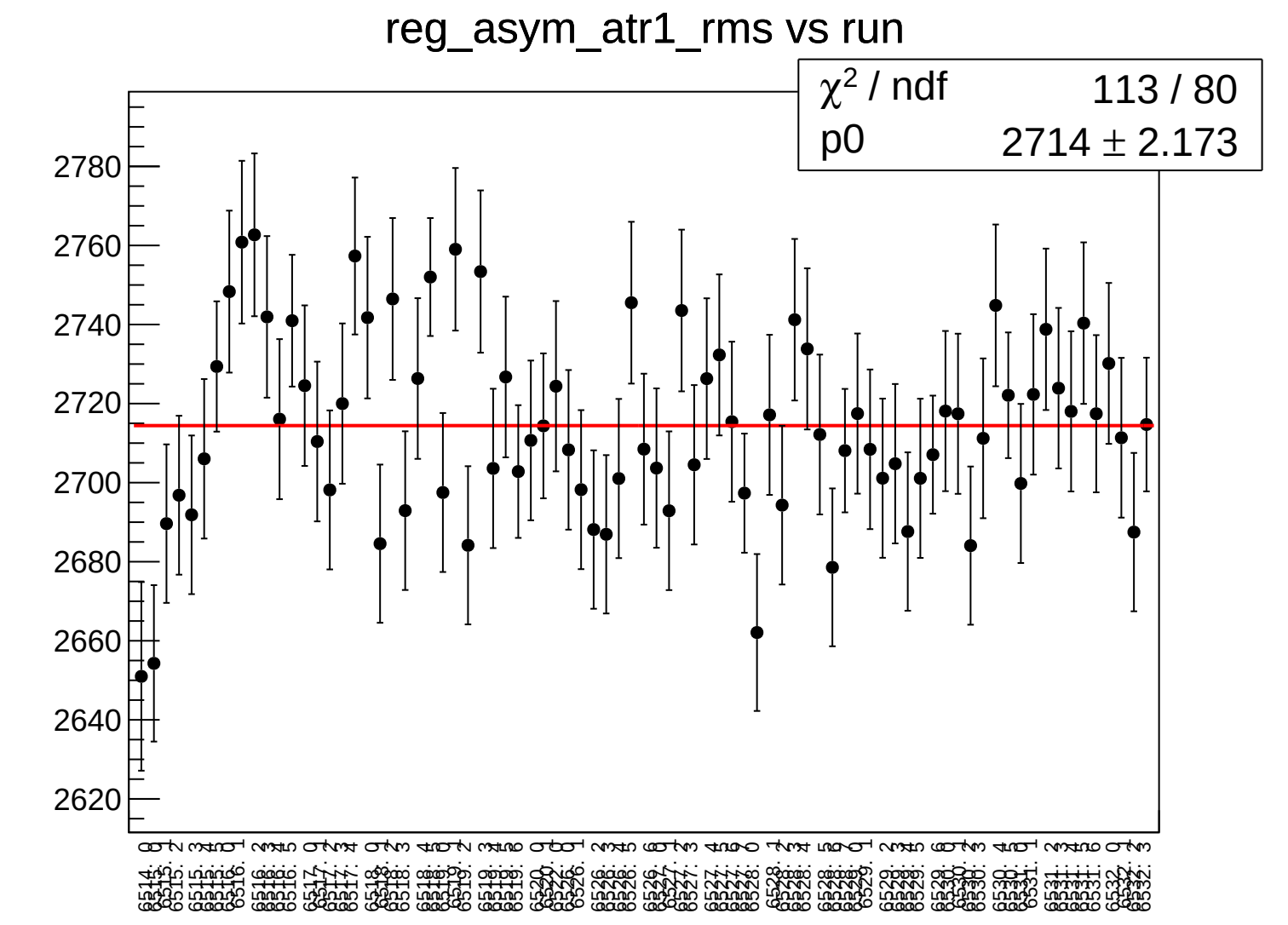

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.988e+04 / 80
p0 573.9 ± 0.47
1100
1000
900
800
700
600
500
400

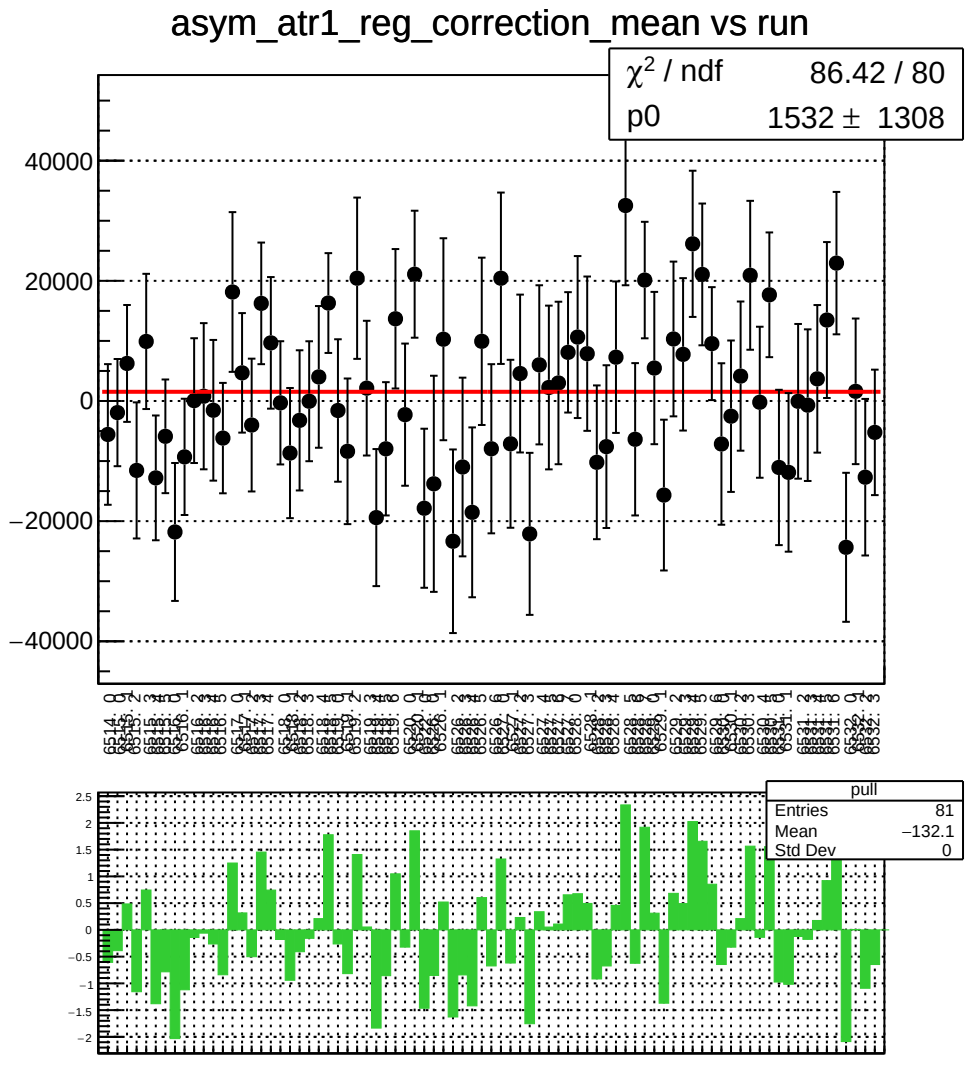

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.9 / 80
p0 4.903e−14 ± 1.694e−13
pull
Entries 81
Mean 68.91
Std Dev 0
pull1D
Entries 81
Mean 0.1657
Std Dev 1.087

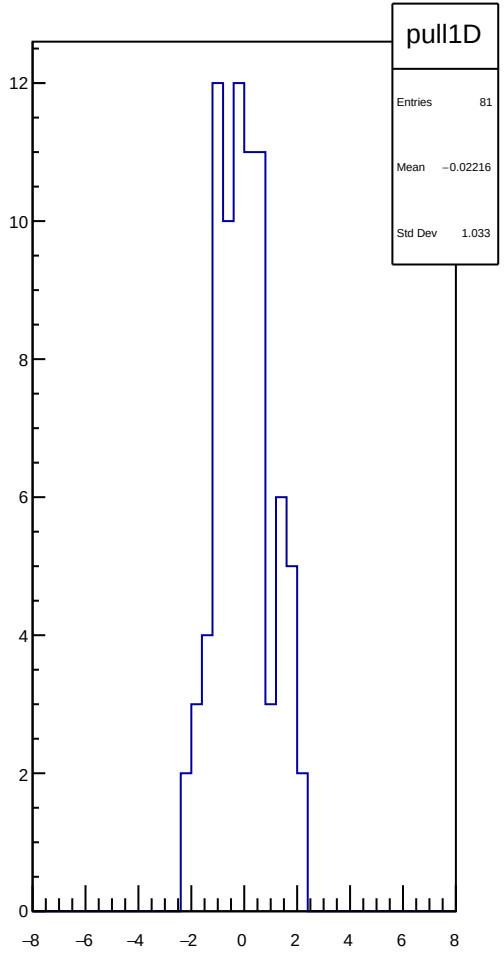

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.552e+05 / 80
p0 1.201e−10 ± 1.198e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

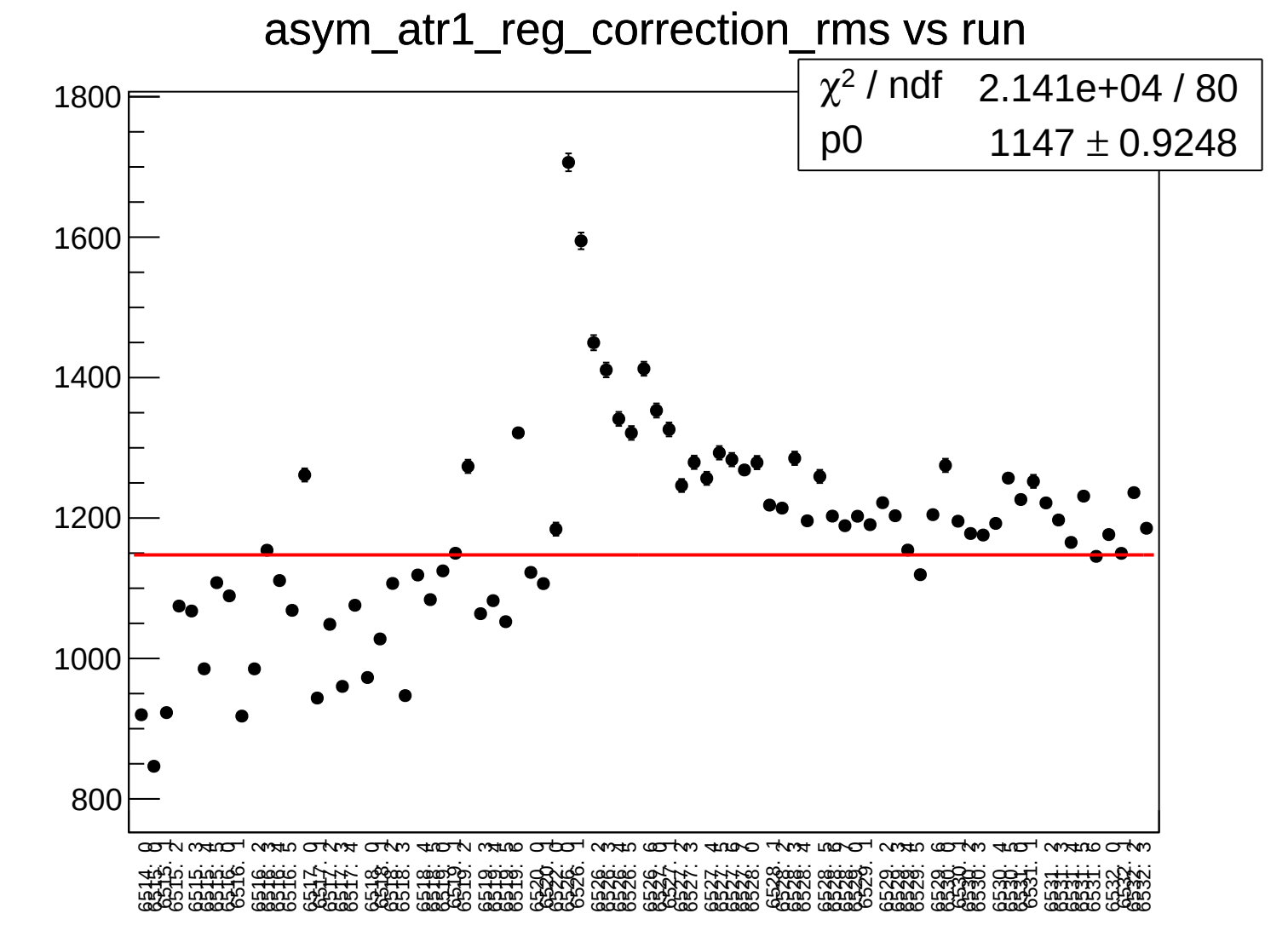

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 70.6 / 80
p0 1339 ± 3073
pull
Entries 81
Mean −582.2
Std Dev 0

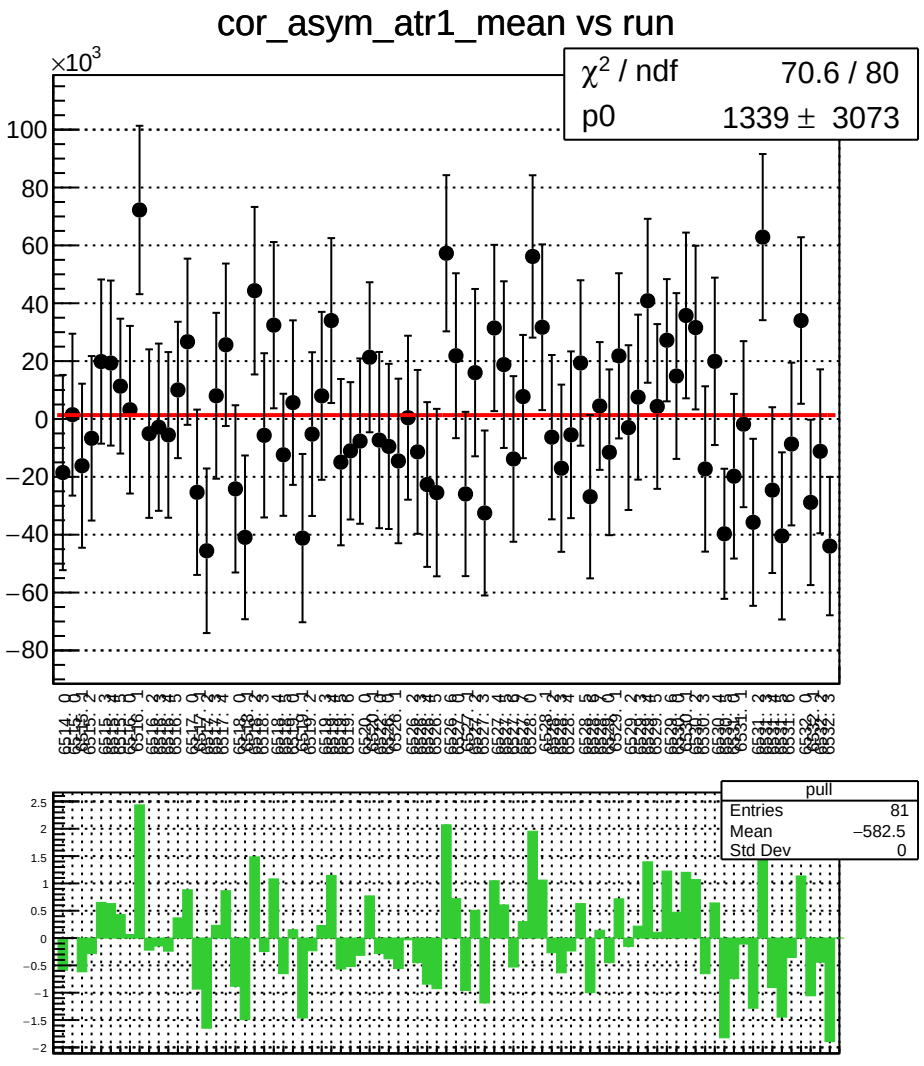

pull1D
Entries 81
Mean 0.001999
Std Dev 0.9336

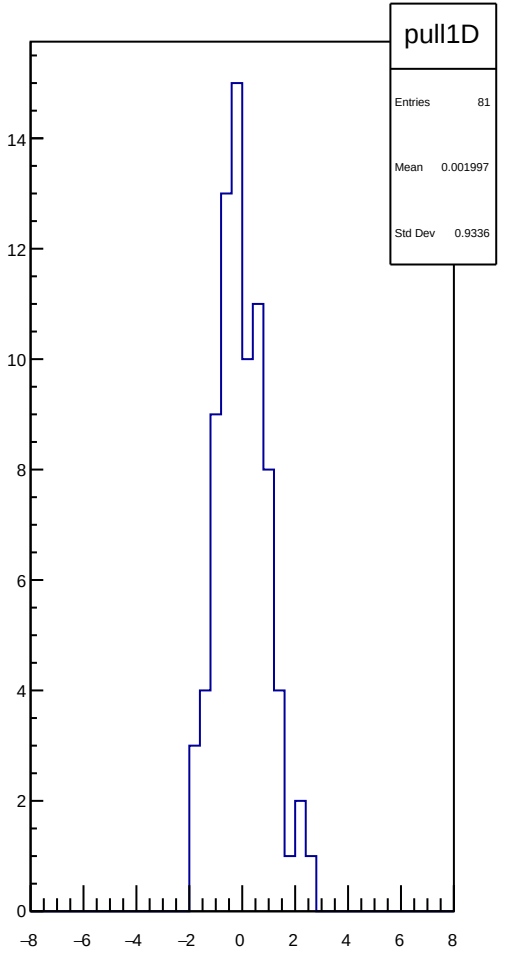

reg_asym_atr1_rms vs run
χ² / ndf 113 / 80
p0 2714 ± 2.173
2780
2760
2740
2720
2700
2680
2660
2640
2620

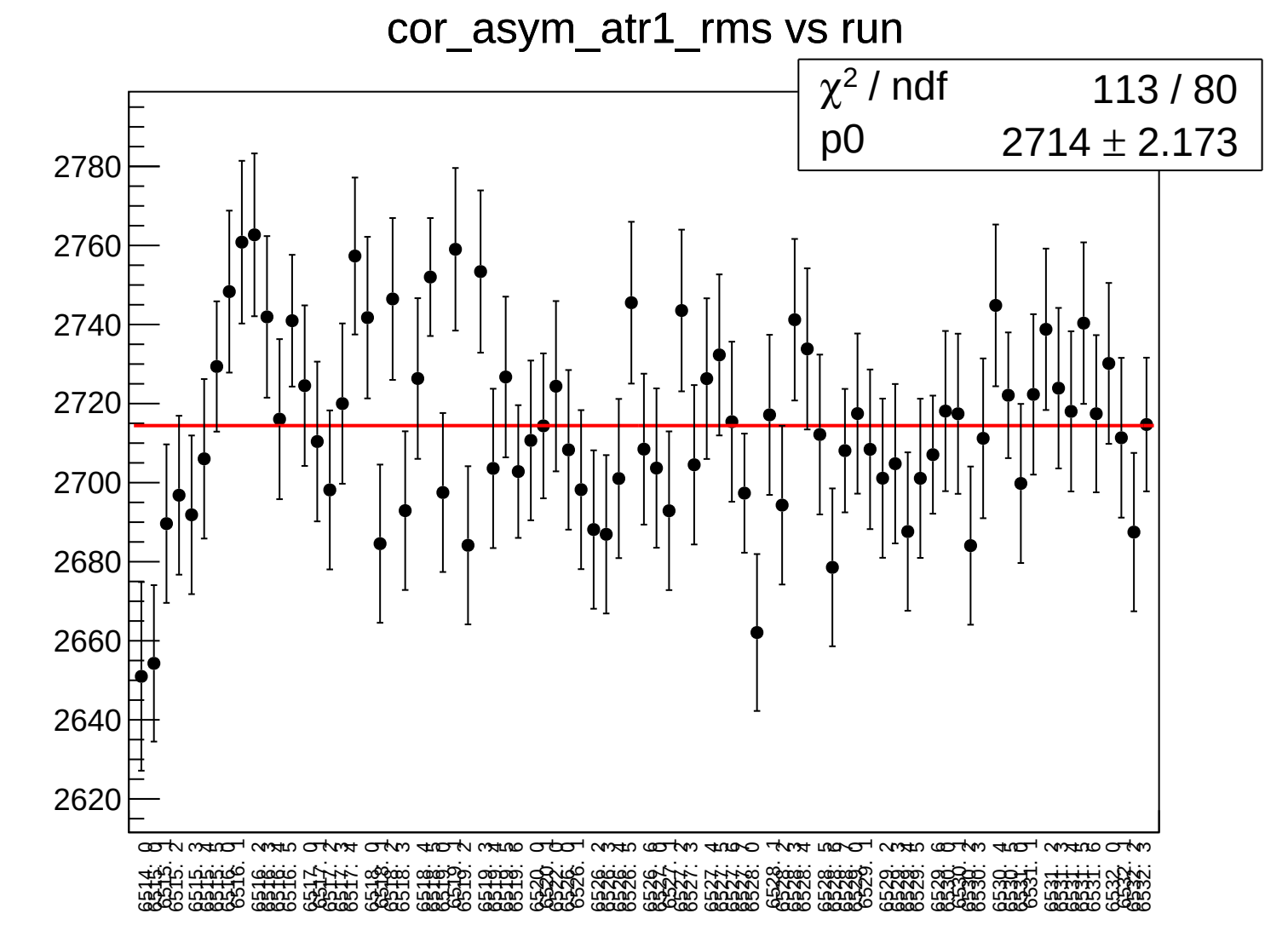

asym_atr1_reg_correction_mean vs run
χ² / ndf 86.42 / 80
p0 1532 ± 1308
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −132.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

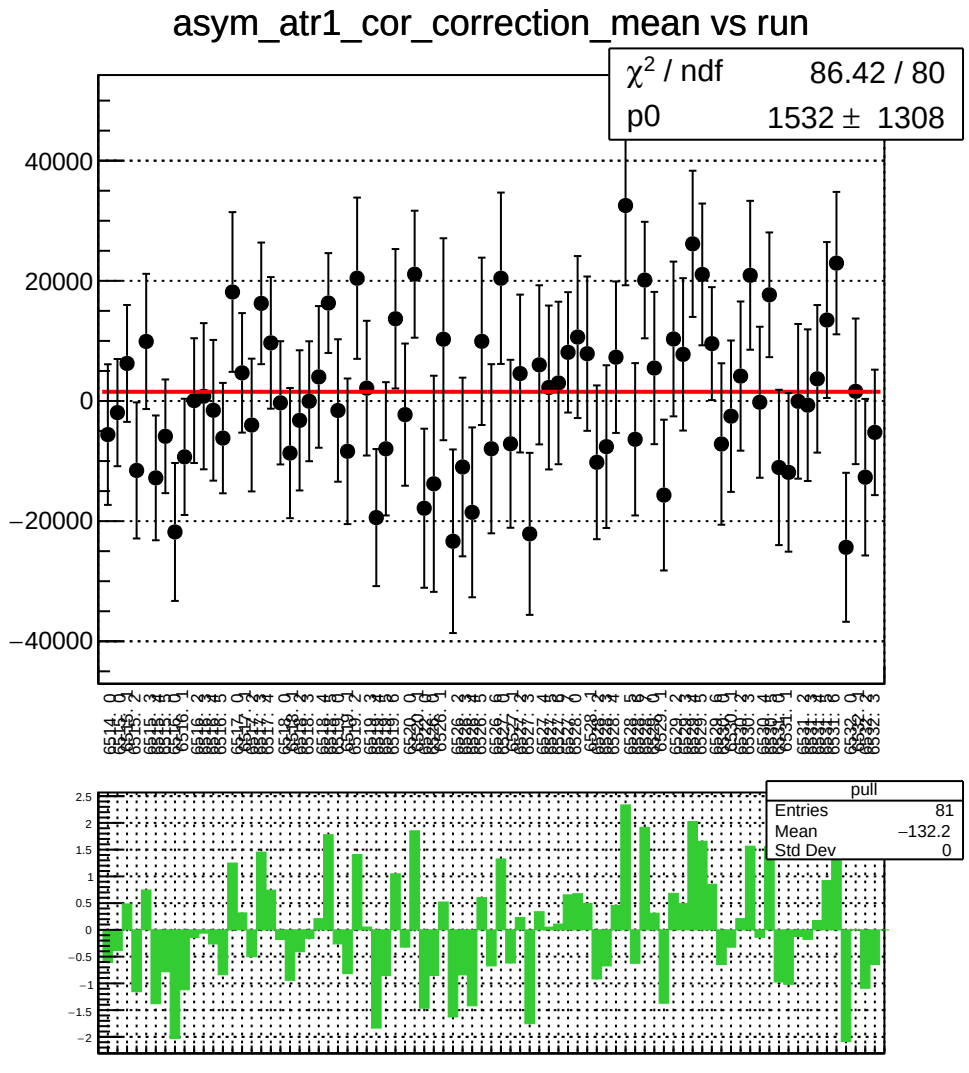

pull1D
Entries 81
Mean −0.02216
Std Dev 1.033
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

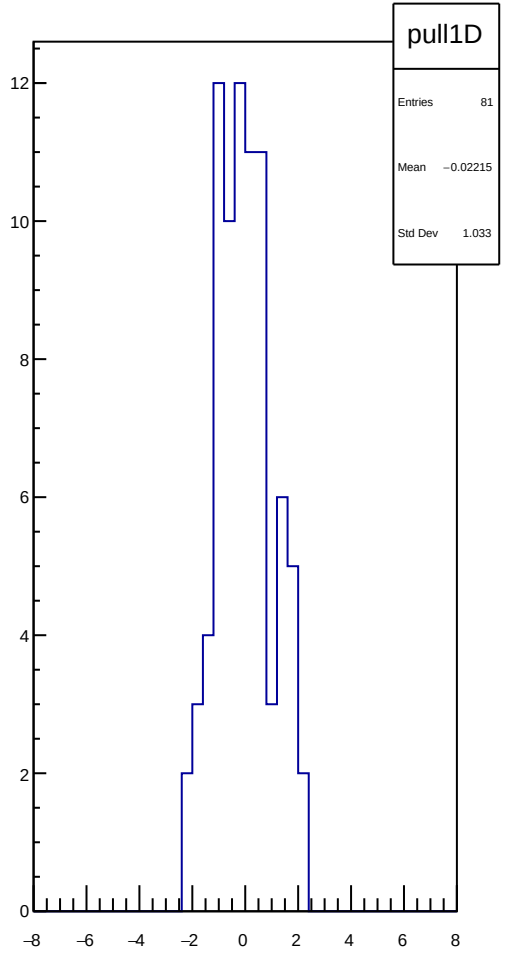

asym_atr1_reg_correction_rms vs run
χ² / ndf 2.141e+04 / 80
p0 1147 ± 0.9248
1800
1600
1400
1200
1000
800

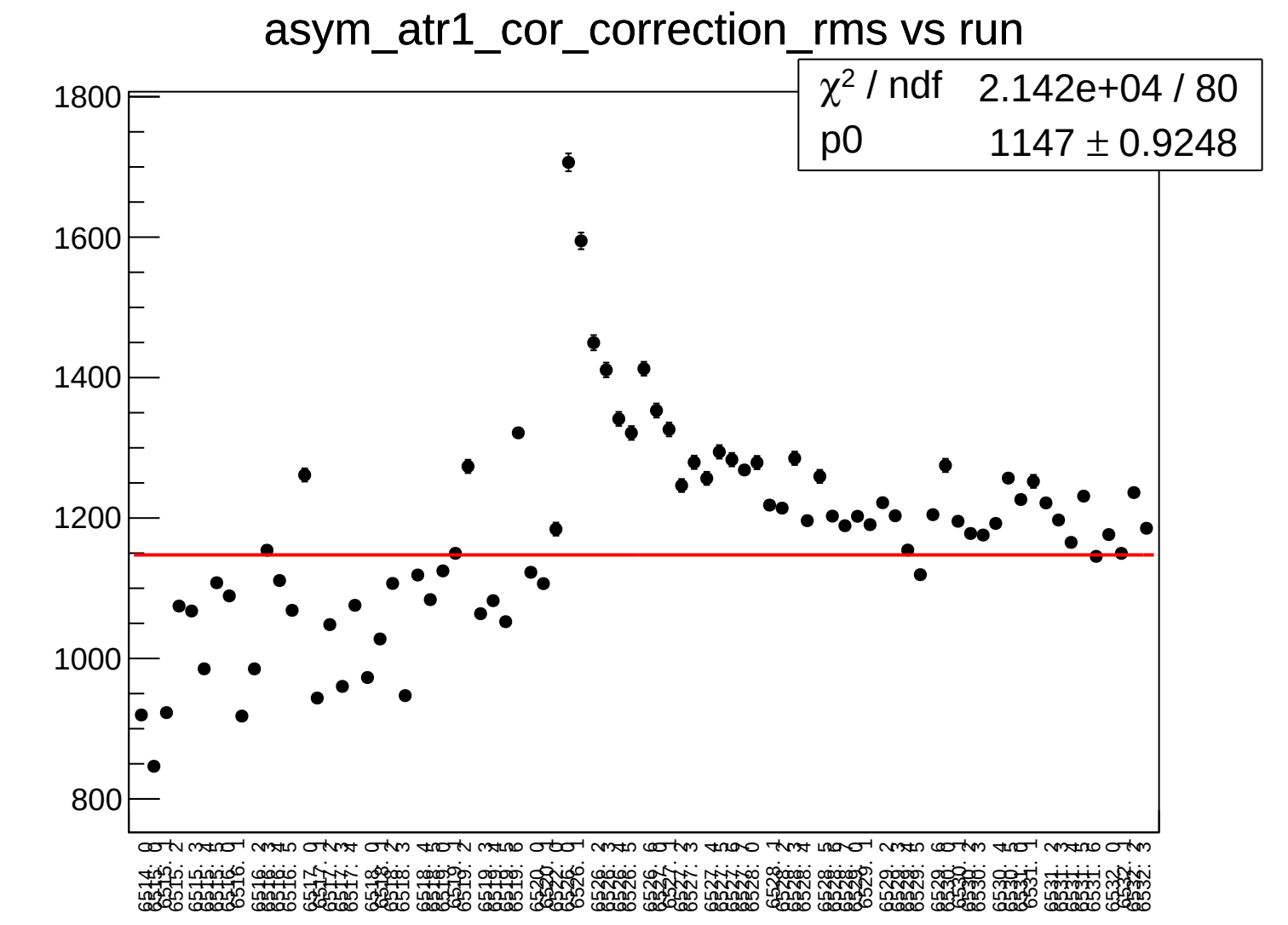

cor_asym_atr1_mean vs run
×10^3
χ² / ndf 70.6 / 80
p0 1339 ± 3073
pull
Entries 81
Mean −582.5
Std Dev 0

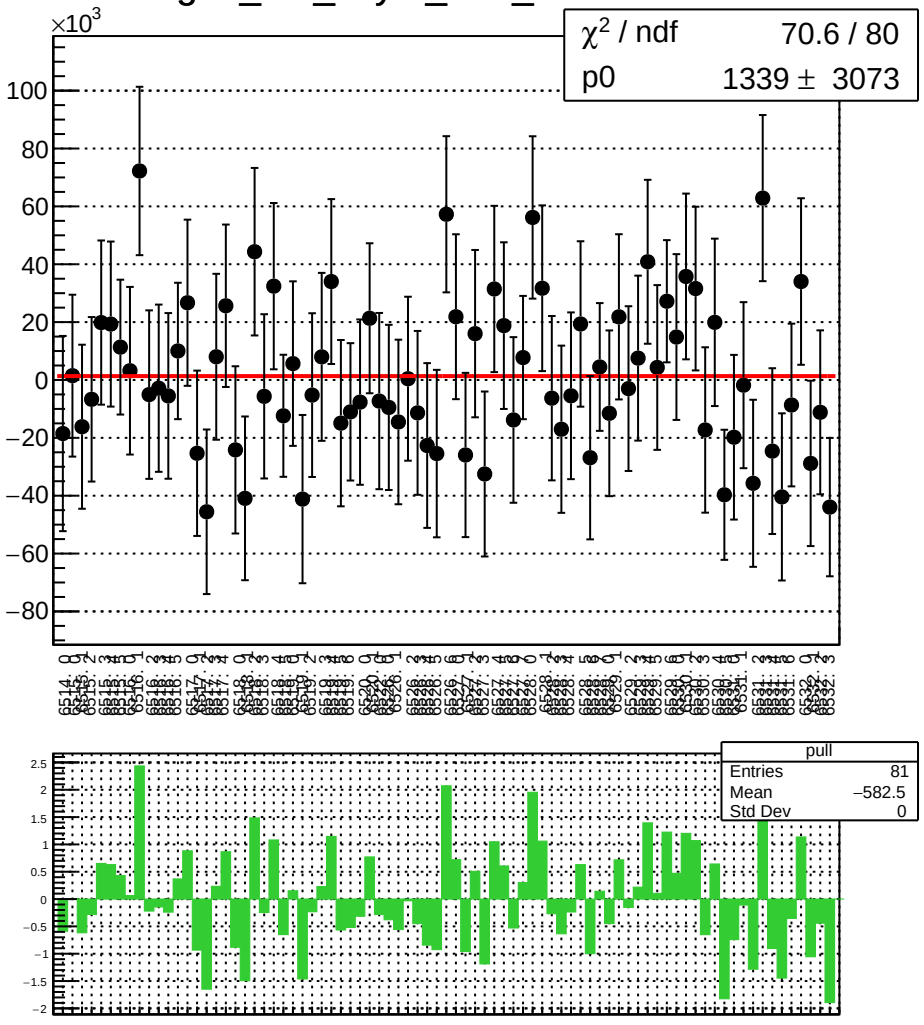

pull1D
Entries 81
Mean 0.001997
Std Dev 0.9336

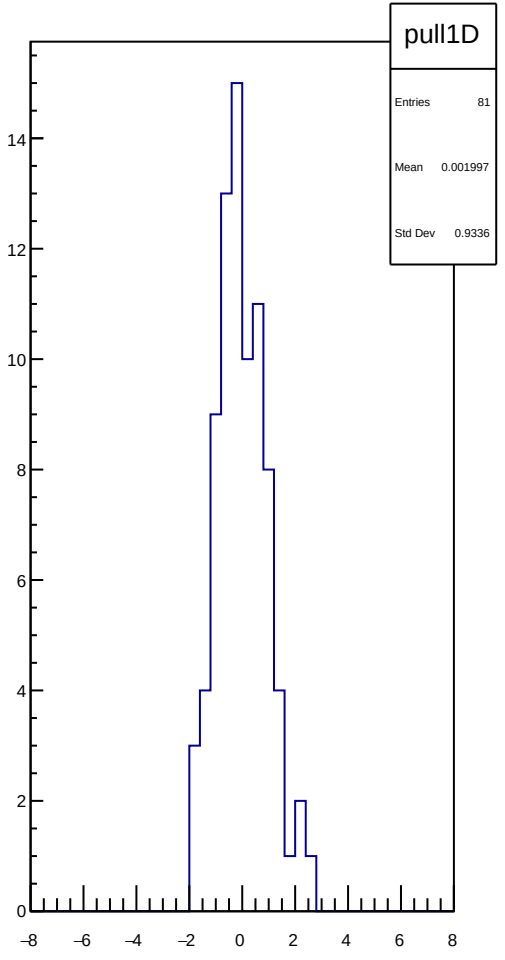

cor_asym_atr1_rms vs run
χ² / ndf 113 / 80
p0 2714 ± 2.173
2780
2760
2740
2720
2700
2680
2660
2640
2620

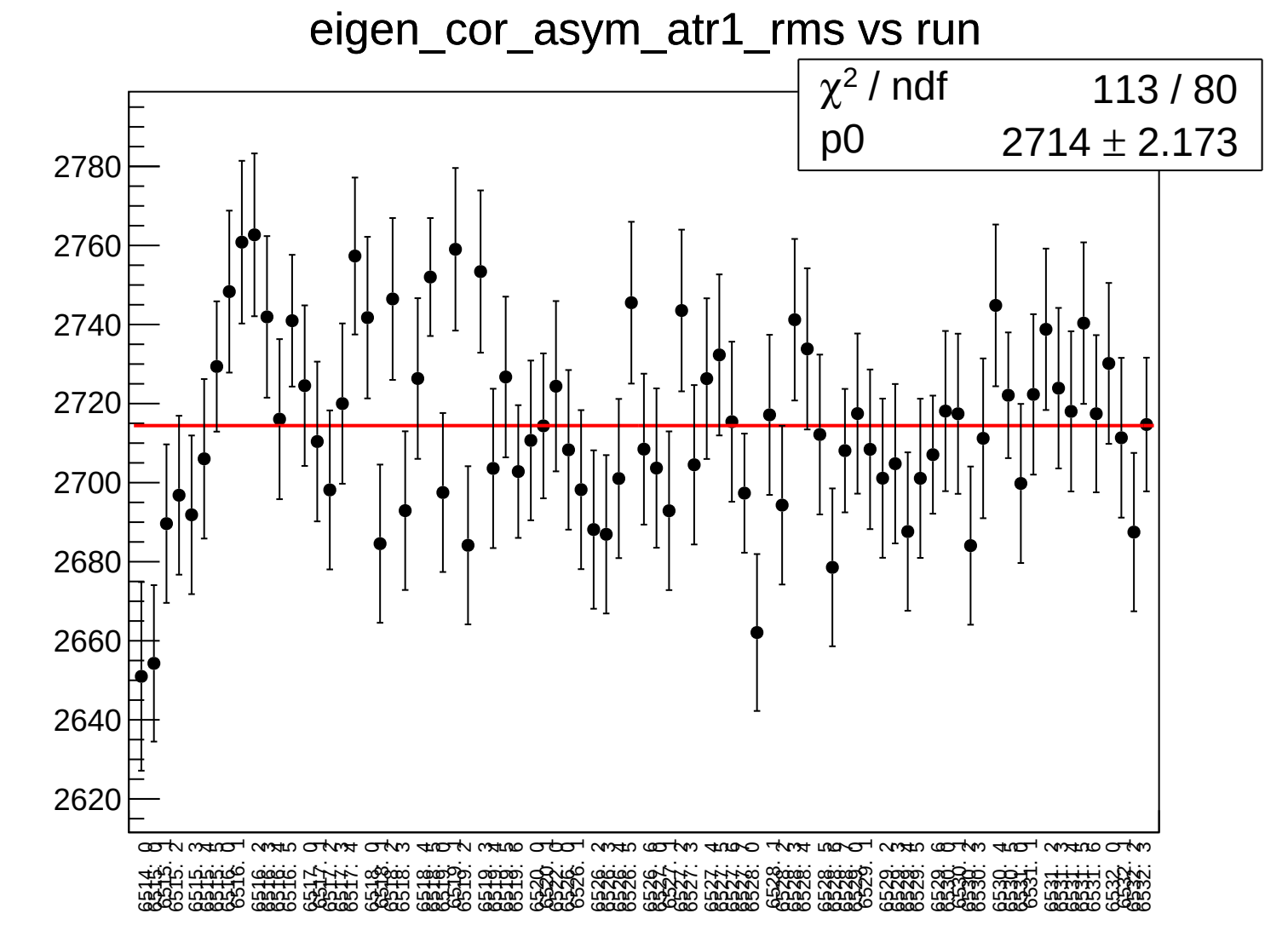

asym_atr1_cor_correction_mean vs run
χ² / ndf 86.42 / 80
p0 1532 ± 1308
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −132.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

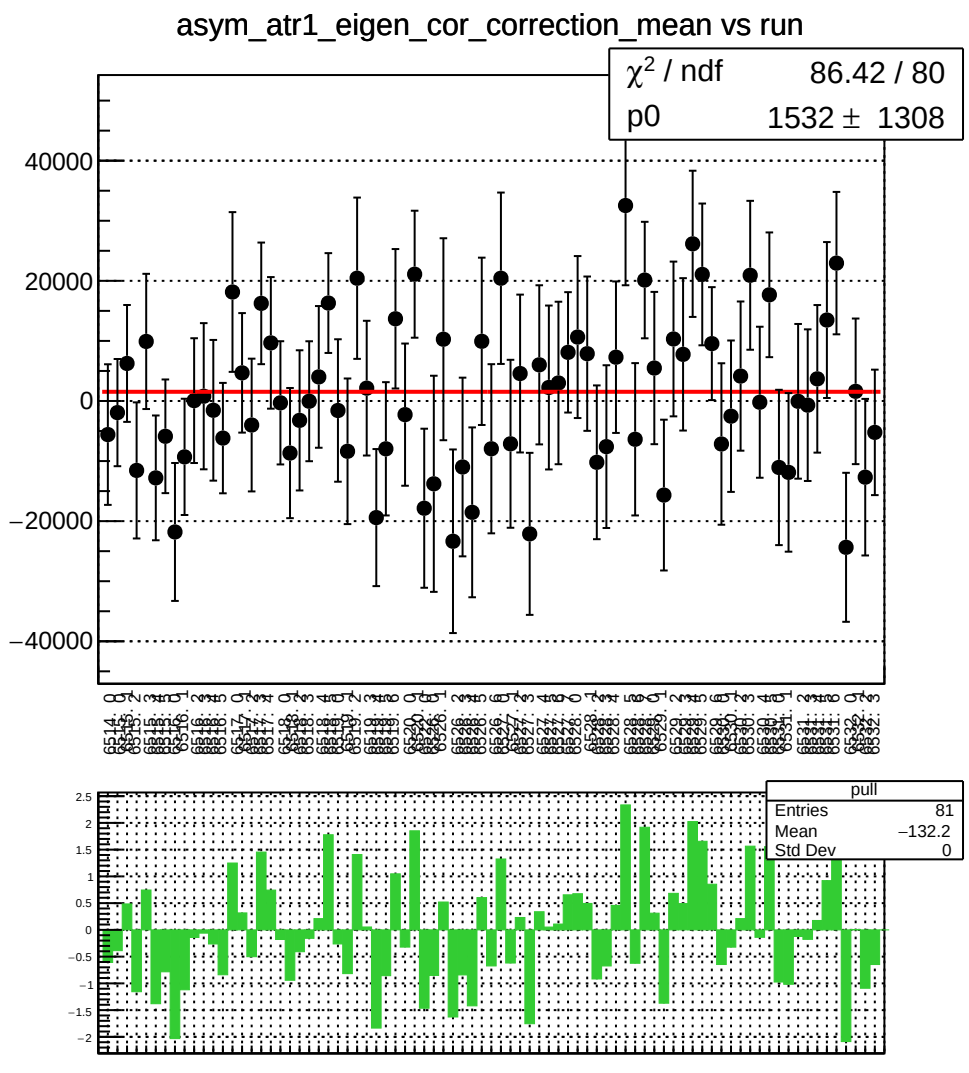

pull1D
Entries 81
Mean −0.02215
Std Dev 1.033
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

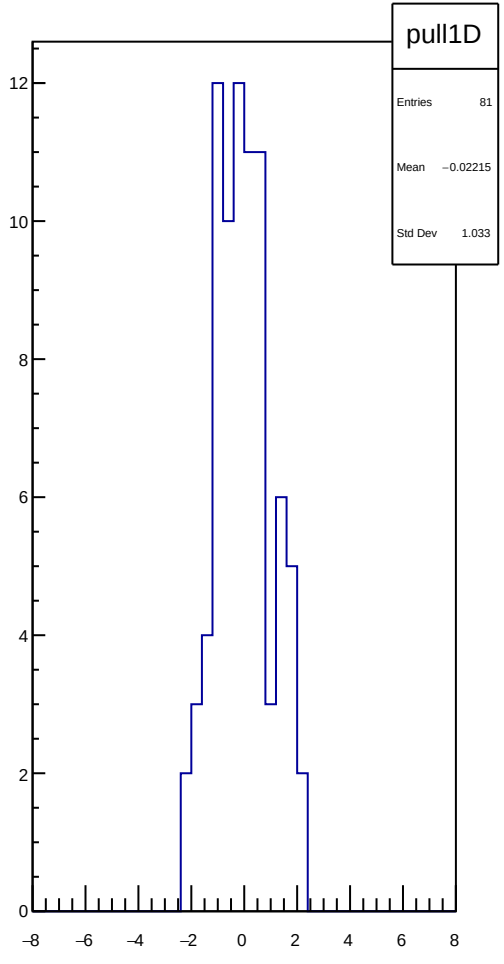

asym_atr1_cor_correction_rms vs run
χ² / ndf 2.142e+04 / 80
p0 1147 ± 0.9248
1800
1600
1400
1200
1000
800

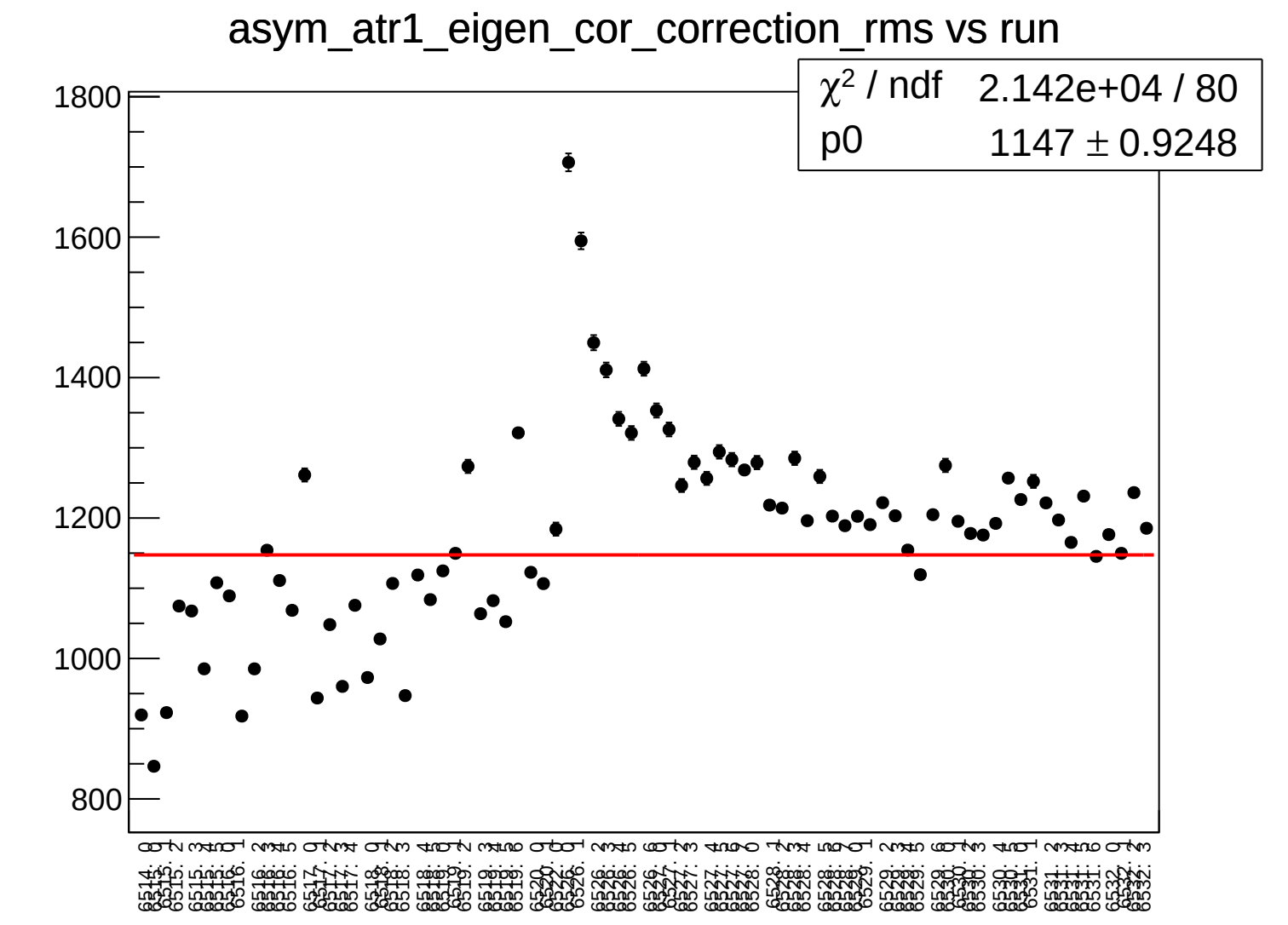

eigen_cor_asym_atr1_mean vs run
×10^3
χ² / ndf 70.6 / 80
p0 1339 ± 3073
pull
Entries 81
Mean −582.5
Std Dev 0

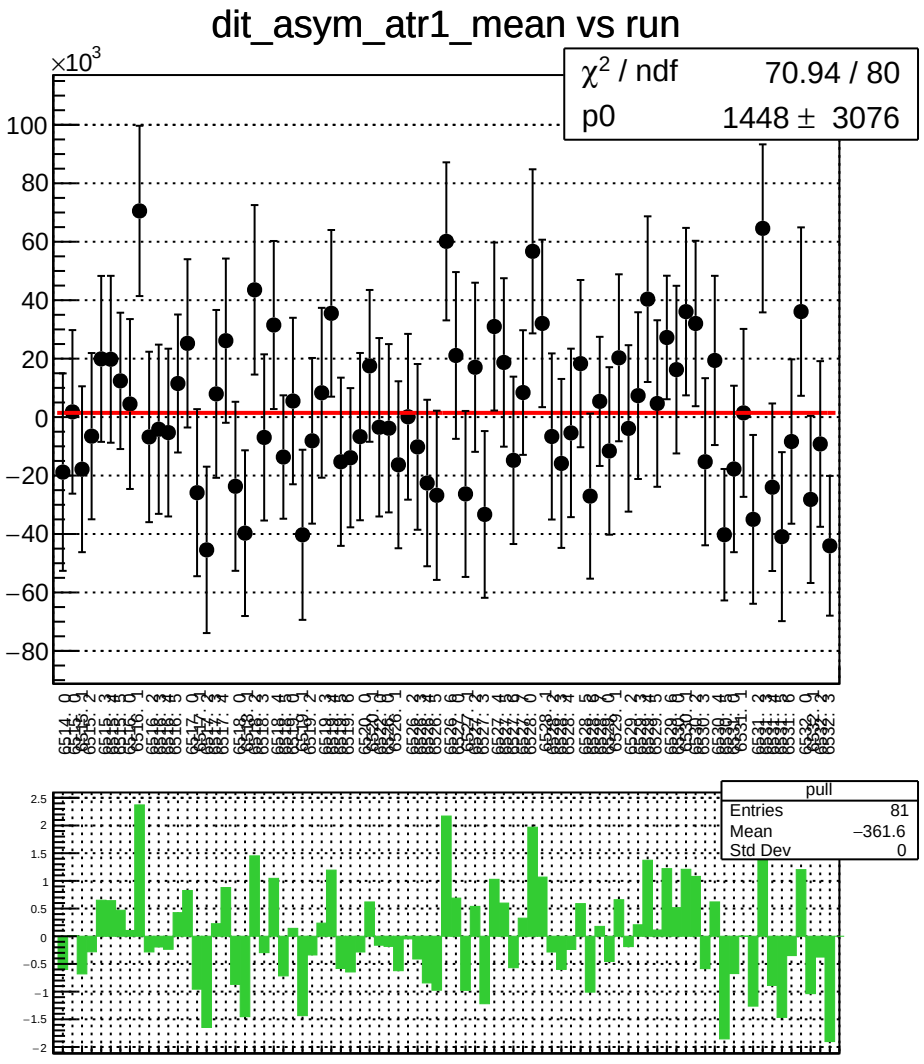

pull1D
Entries 81
Mean 0.001997
Std Dev 0.9336

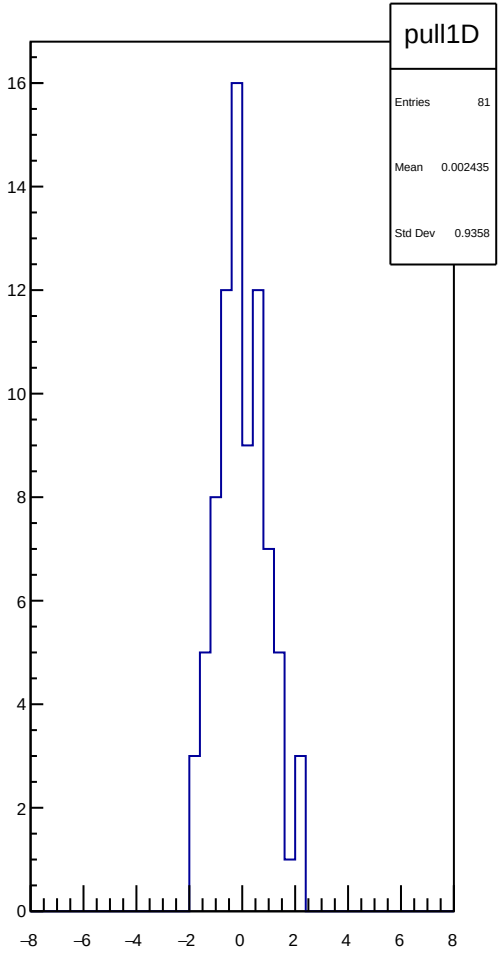

eigen_cor_asym_atr1_rms vs run
χ² / ndf 113 / 80
p0 2714 ± 2.173
2780
2760
2740
2720
2700
2680
2660
2640
2620

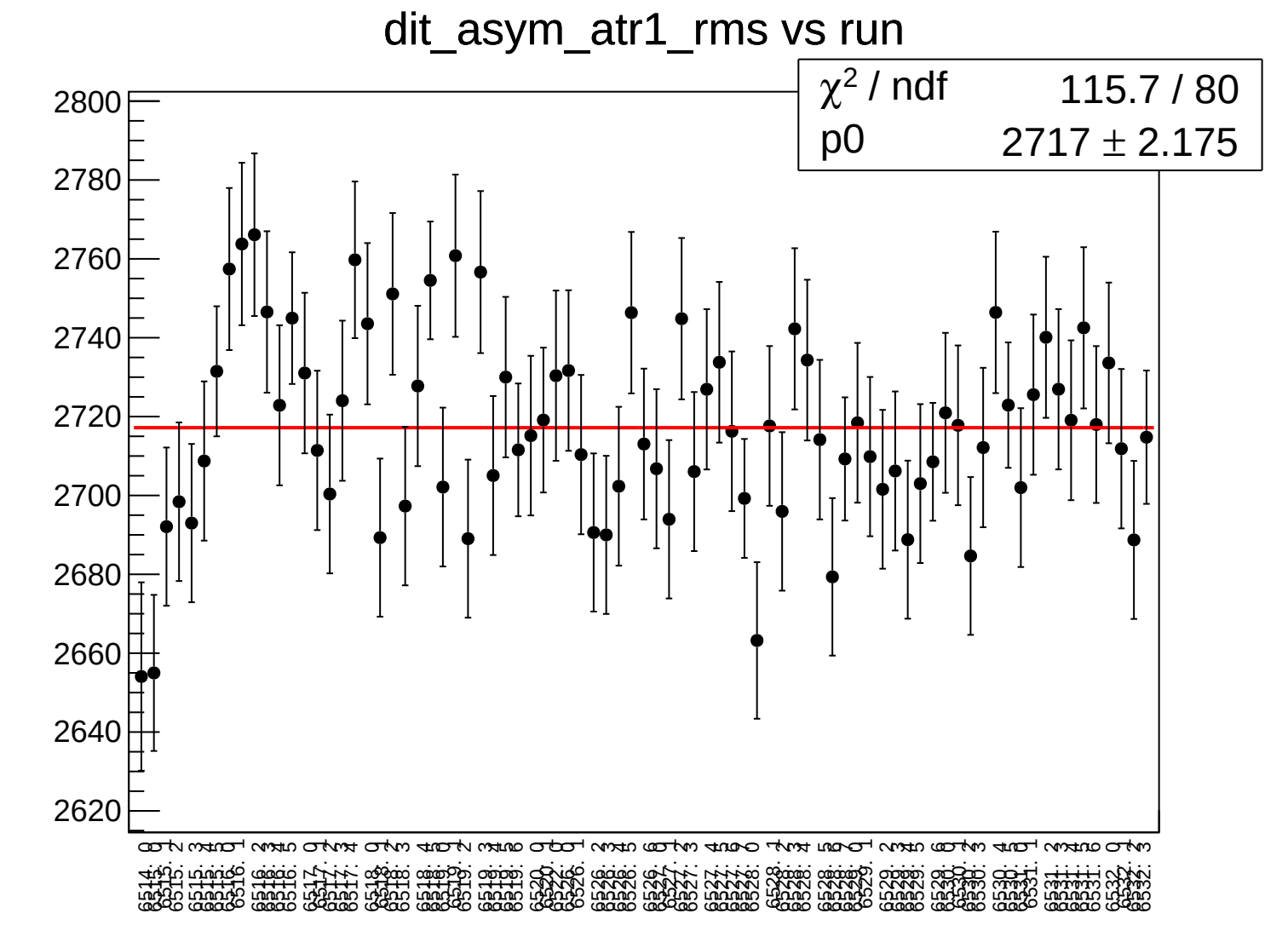

asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 86.42 / 80
p0 1532 ± 1308
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −132.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

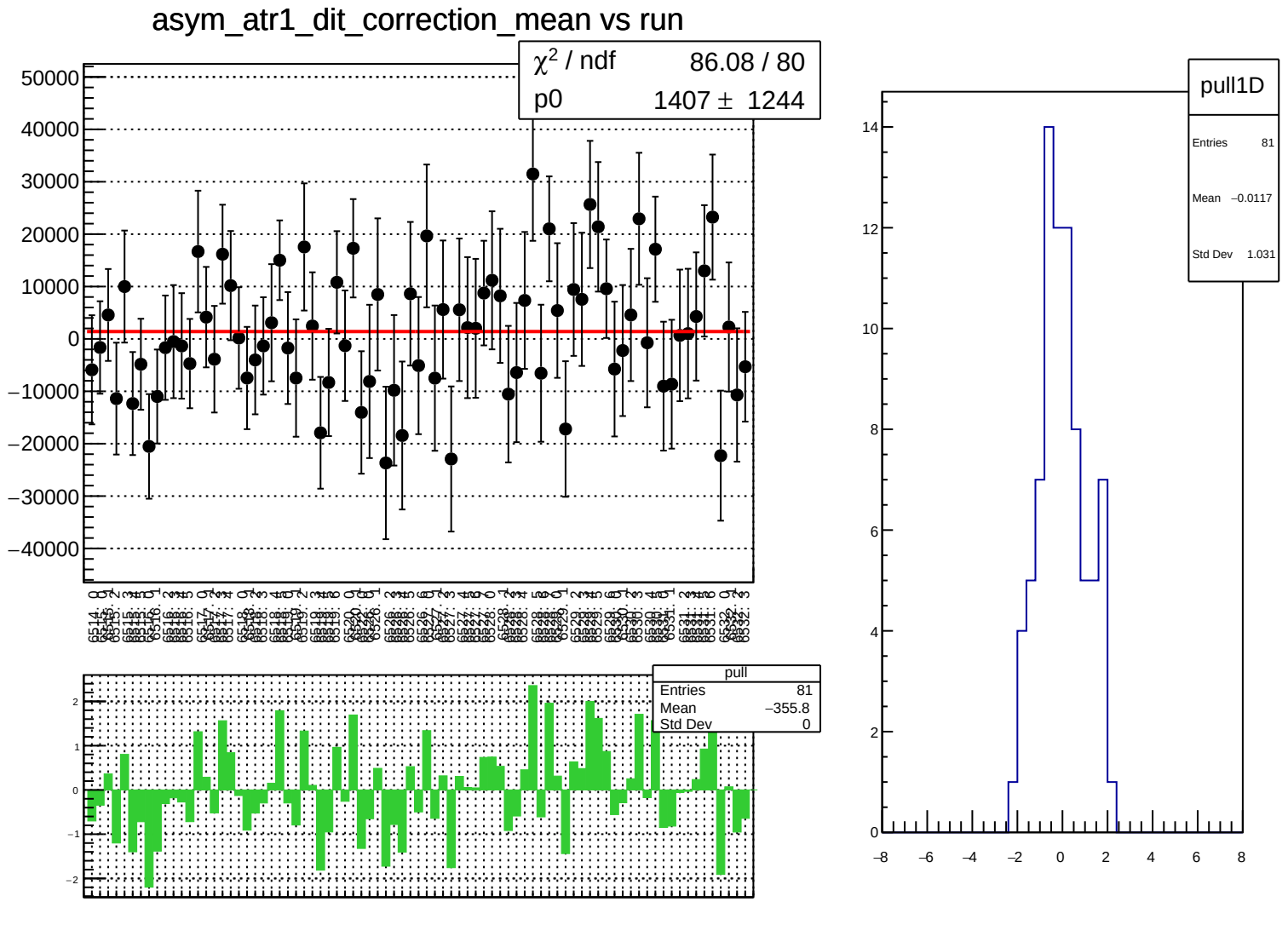

pull1D
Entries 81
Mean −0.02215
Std Dev 1.033
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

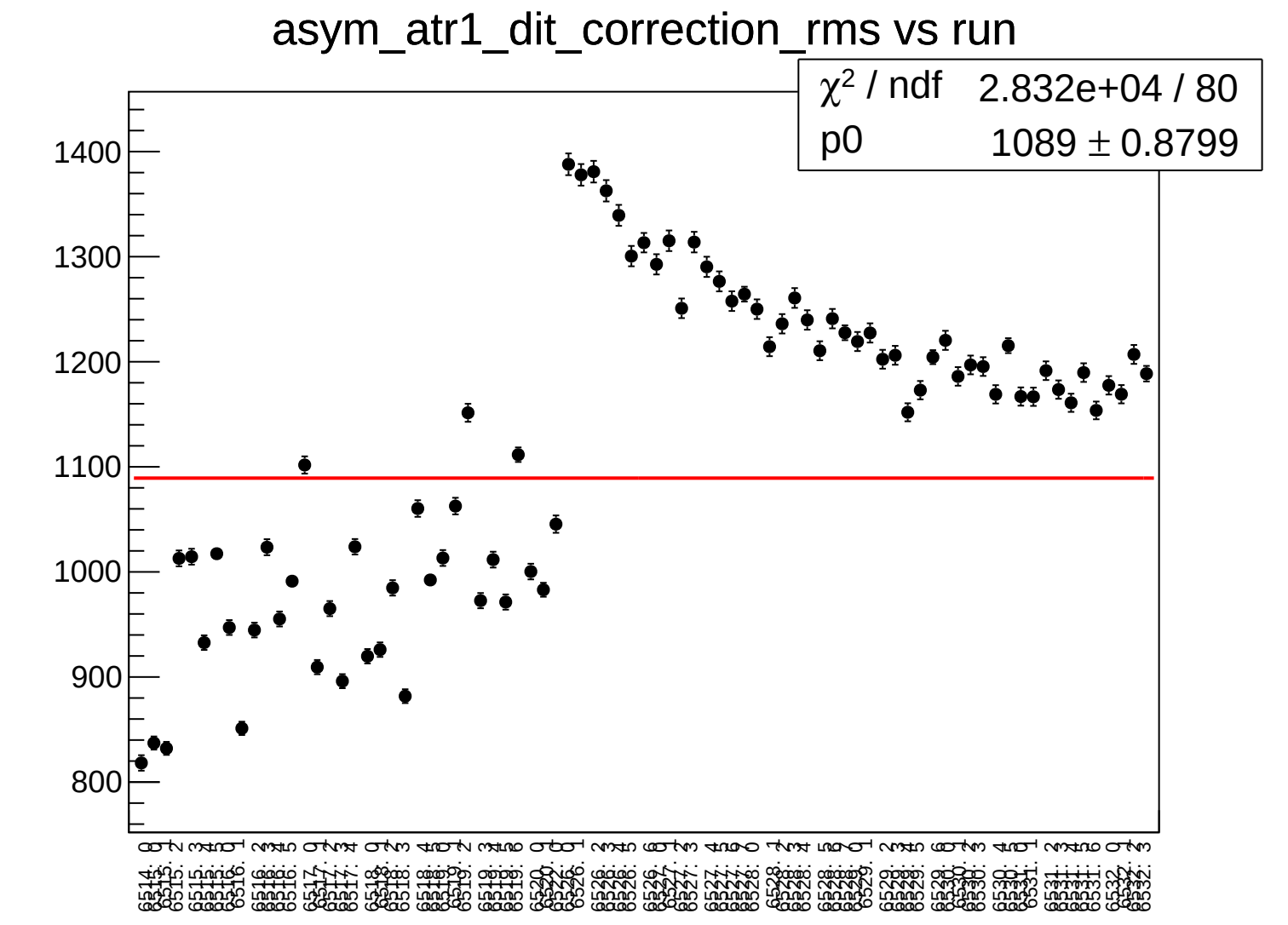

asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 2.142e+04 / 80
p0 1147 ± 0.9248
1800
1600
1400
1200
1000
800

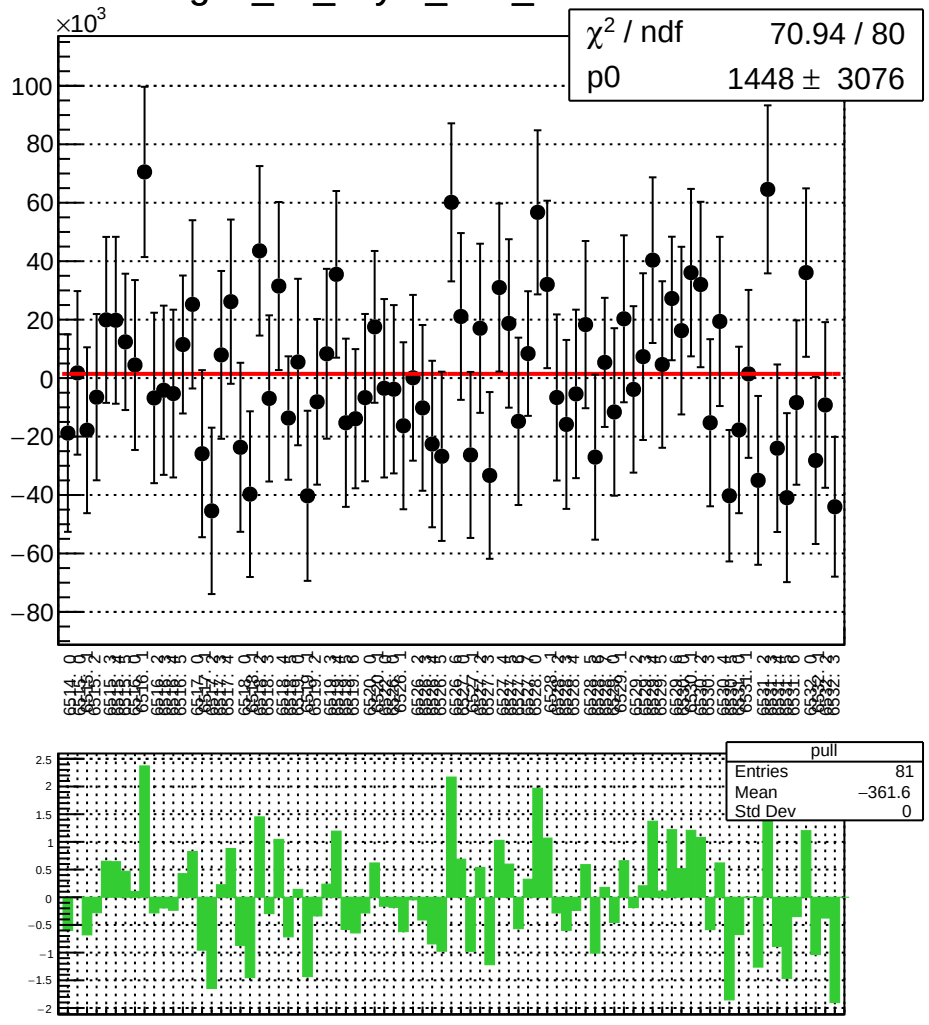

dit_asym_atr1_mean vs run
×10^3
χ^2 / ndf 70.94 / 80
p0 1448 ± 3076
pull
Entries 81
Mean −361.6
Std Dev 0

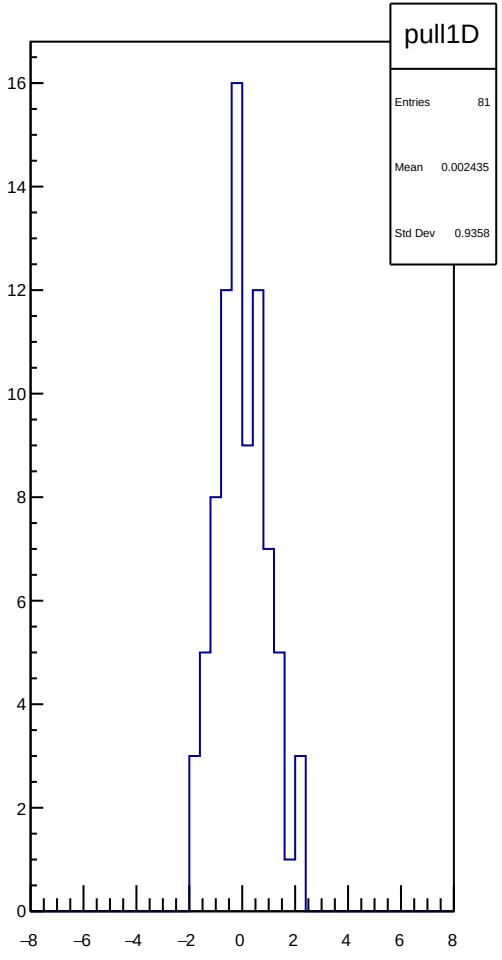

pull1D
Entries 81
Mean 0.002435
Std Dev 0.9358

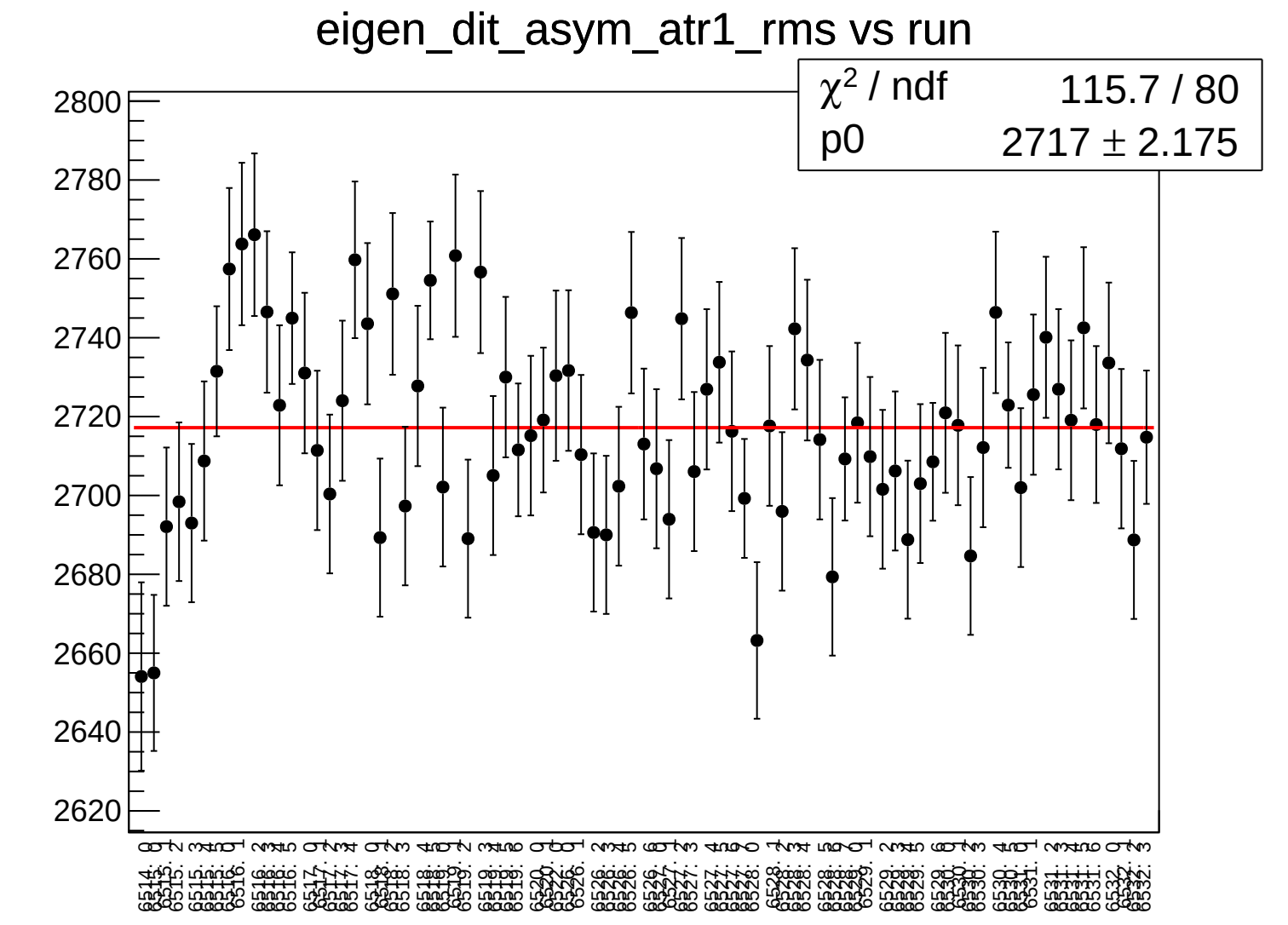

dit_asym_atr1_rms vs run
χ² / ndf 115.7 / 80
p0 2717 ± 2.175
2800
2780
2760
2740
2720
2700
2680
2660
2640
2620

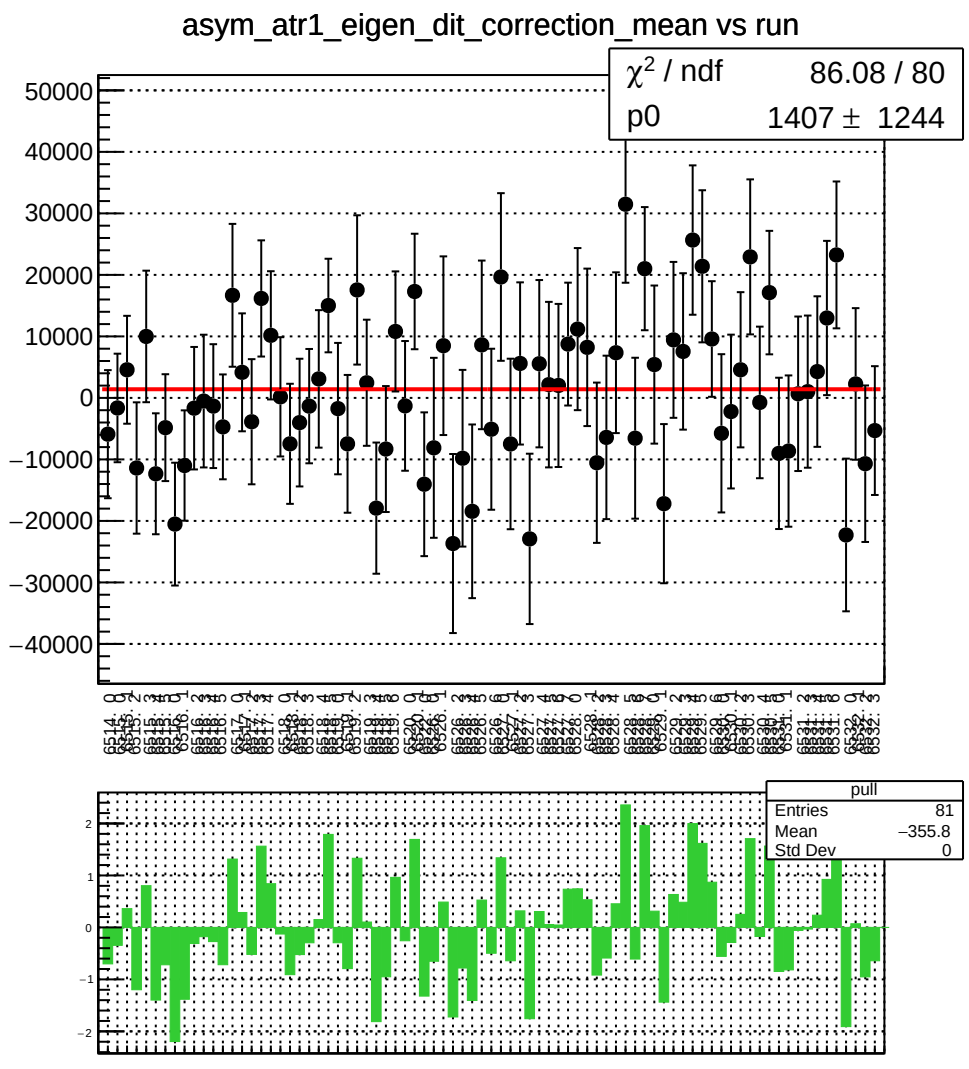

asym_atr1_dit_correction_mean vs run
χ² / ndf 86.08 / 80
p0 1407 ± 1244
pull
Entries 81
Mean −355.8
Std Dev 0
pull1D
Entries 81
Mean −0.0117
Std Dev 1.031

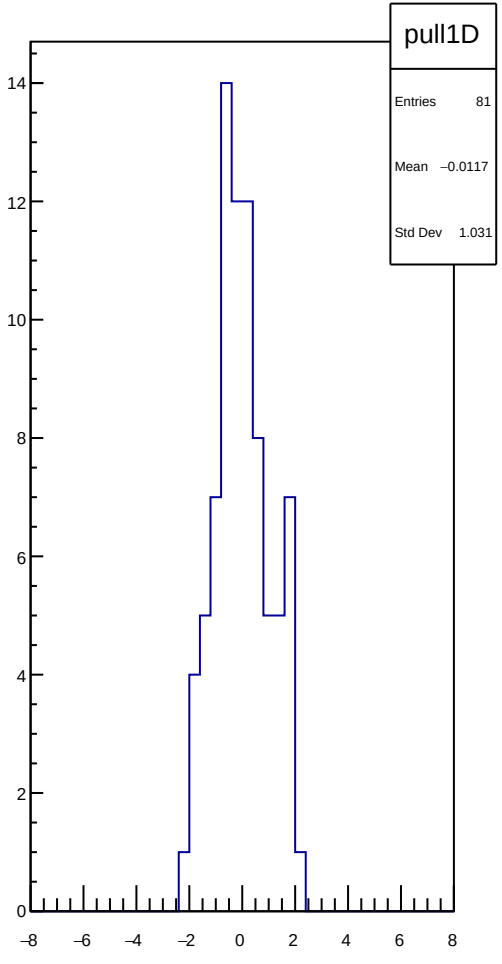

asym_atr1_dit_correction_rms vs run
χ² / ndf 2.832e+04 / 80
p0 1089 ± 0.8799
1400
1300
1200
1100
1000
900
800

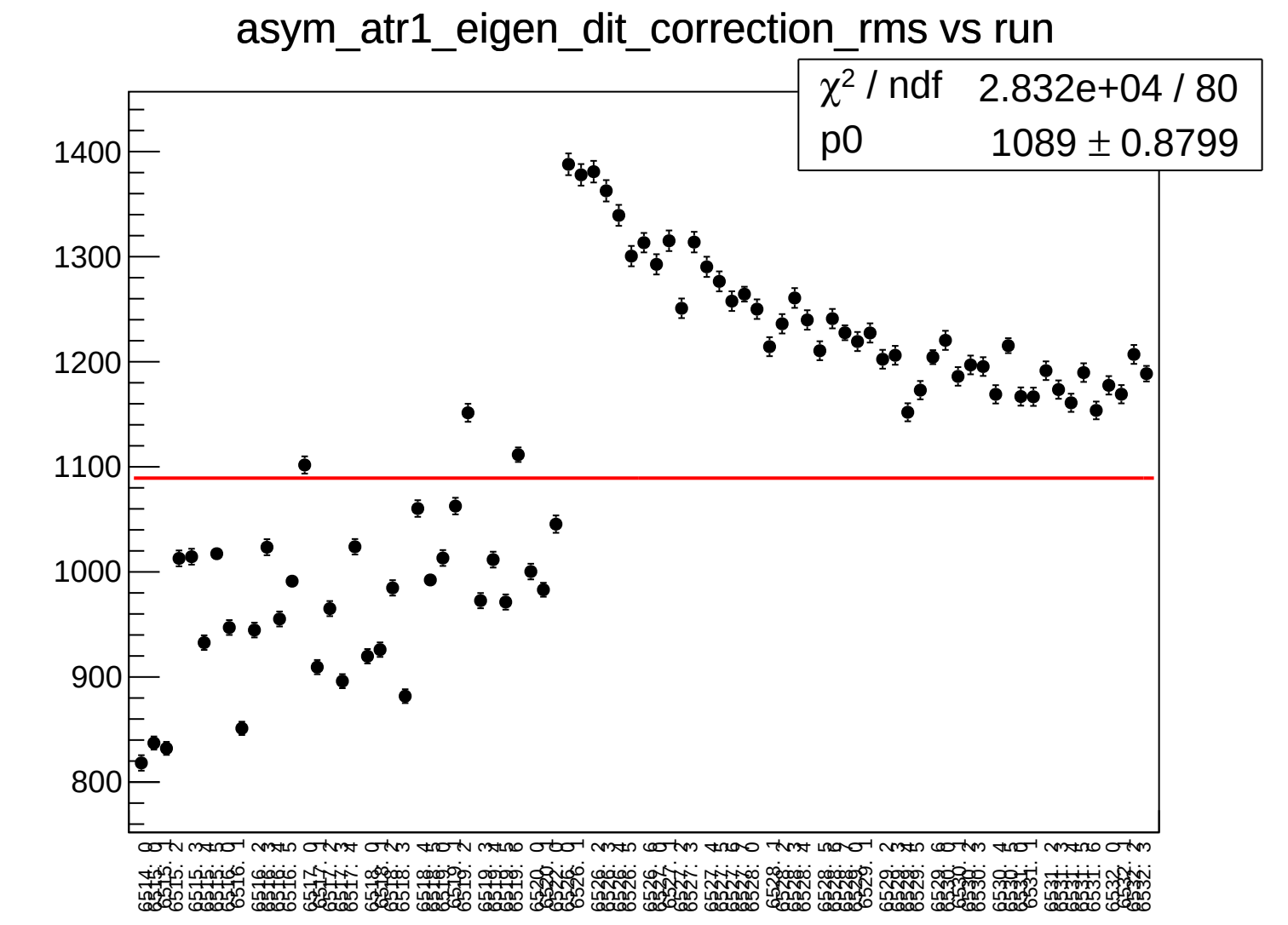

eigen_dit_asym_atr1_mean vs run
×10^3
χ² / ndf 70.94 / 80
p0 1448 ± 3076
pull
Entries 81
Mean −361.6
Std Dev 0

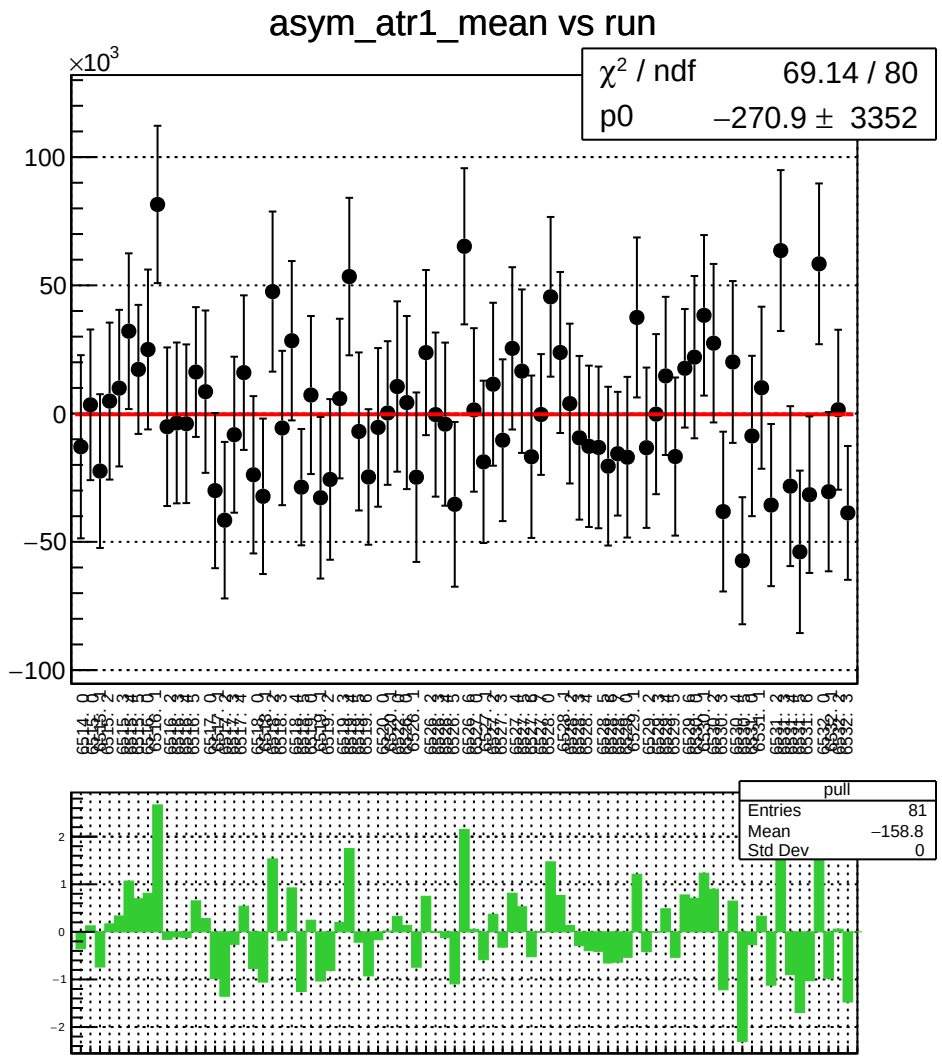

pull1D
Entries 81
Mean 0.002435
Std Dev 0.9358

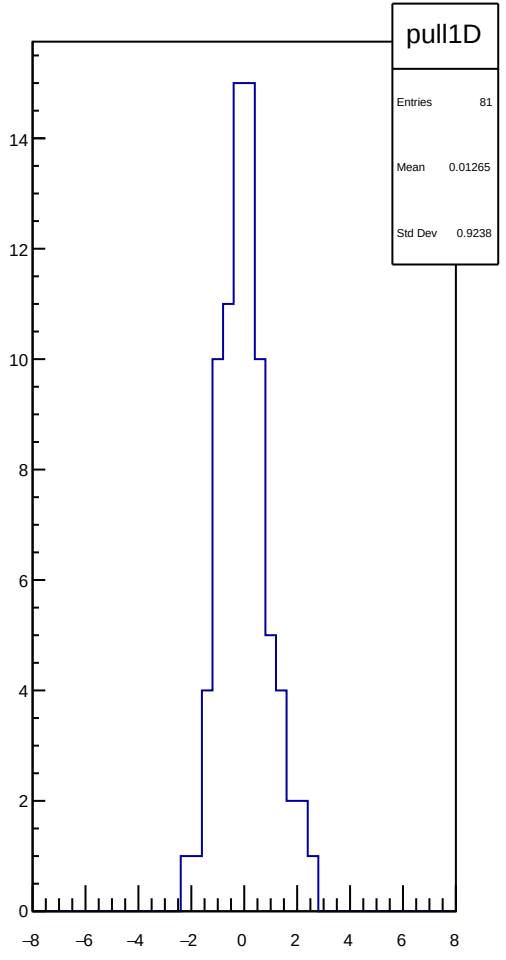

eigen_dit_asym_atr1_rms vs run
χ² / ndf 115.7 / 80
p0 2717 ± 2.175
2800
2780
2760
2740
2720
2700
2680
2660
2640
2620

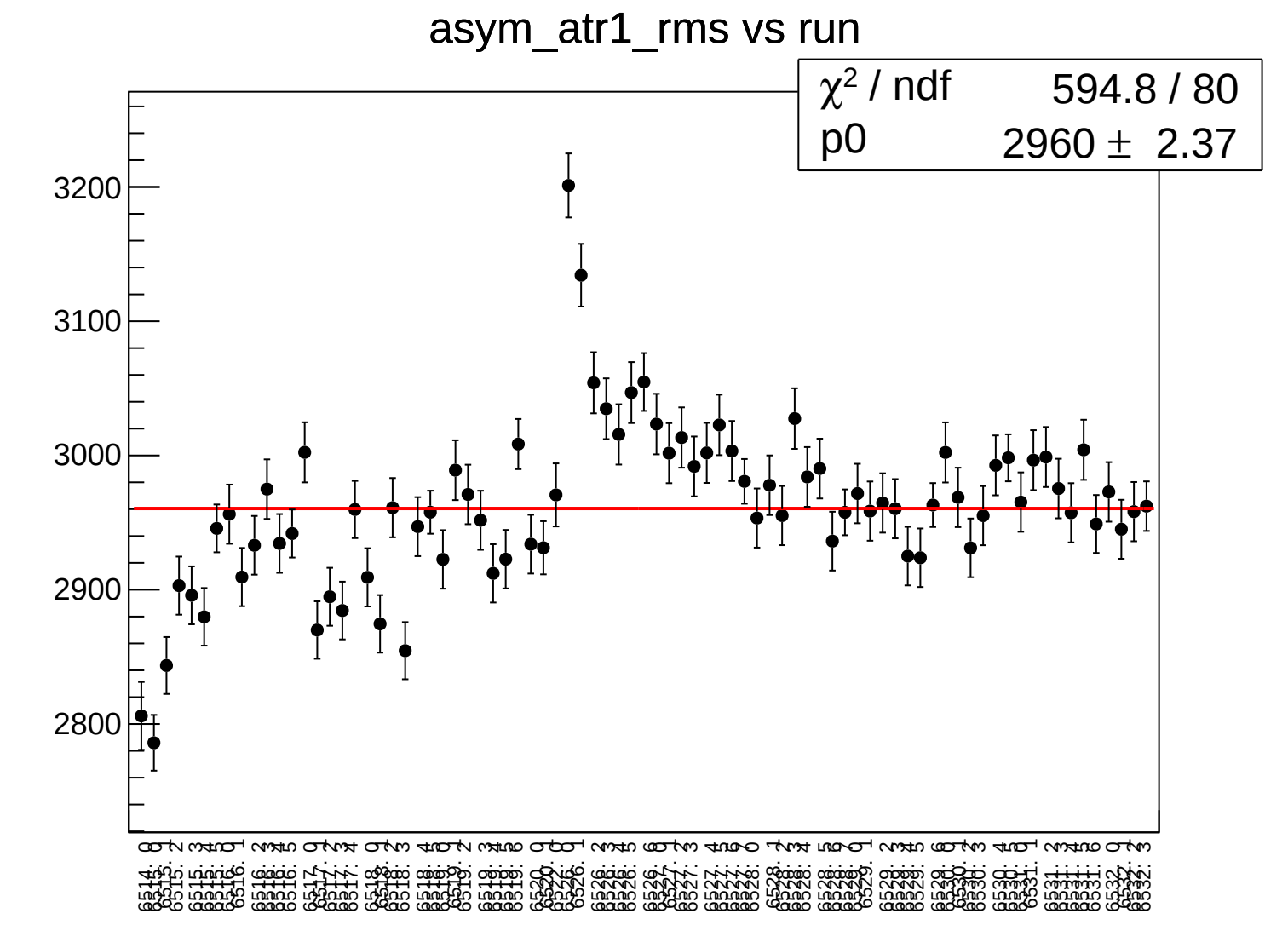

asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 86.08 / 80
p0 1407 ± 1244
pull
Entries 81
Mean −355.8
Std Dev 0

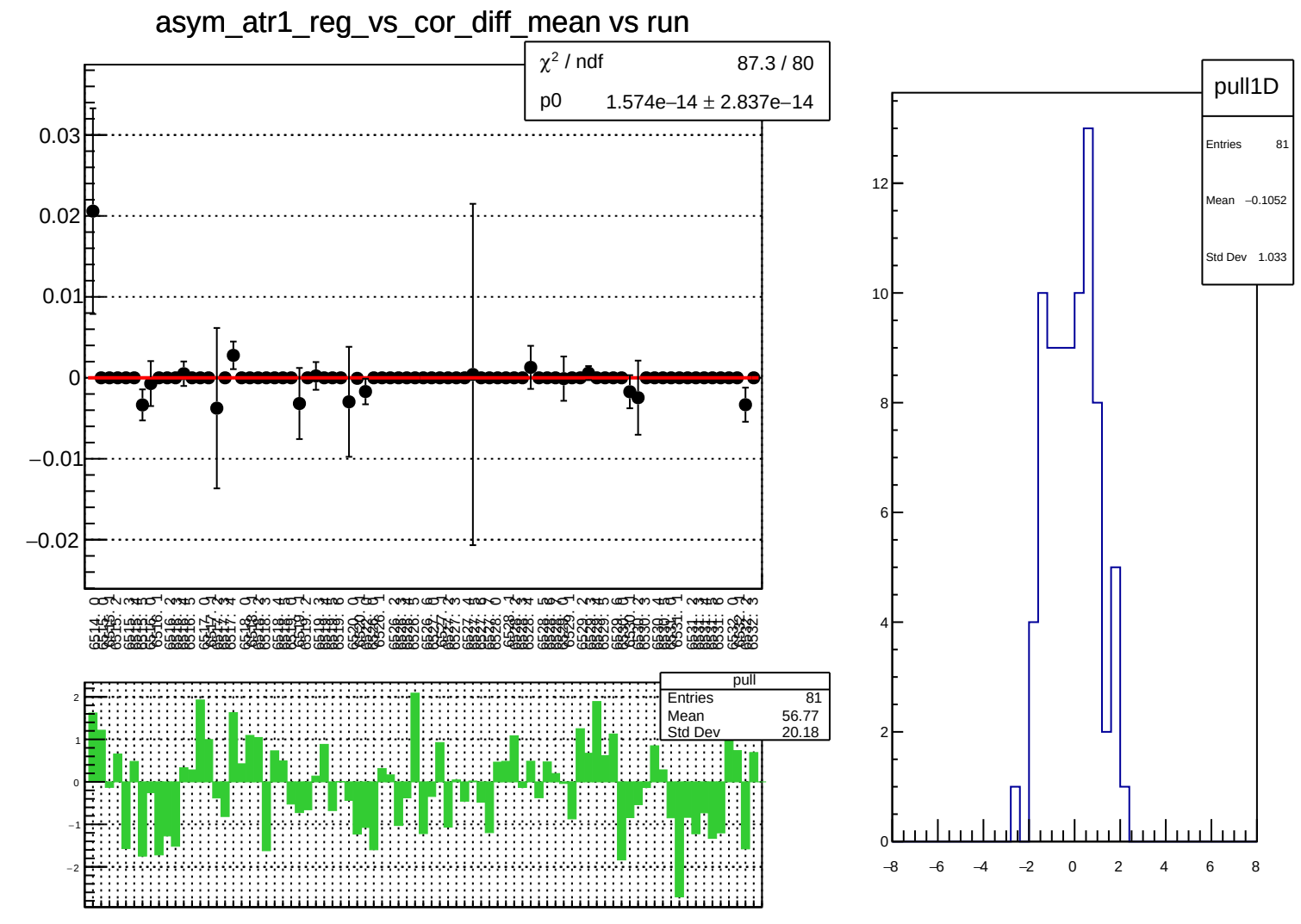

pull1D
Entries 81
Mean −0.0117
Std Dev 1.031

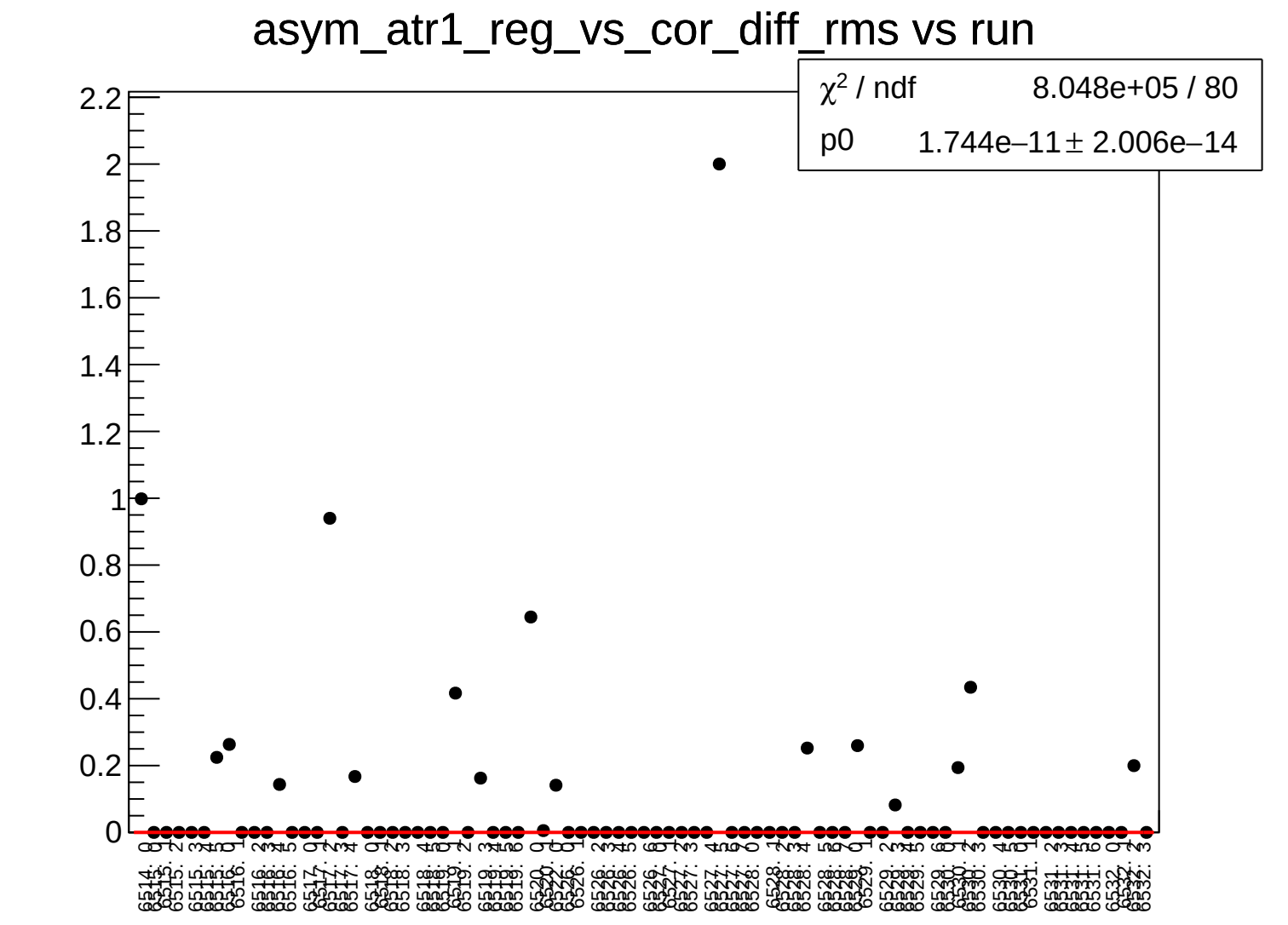

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 2.832e+04 / 80
p0 1089 ± 0.8799
1400
1300
1200
1100
1000
900
800

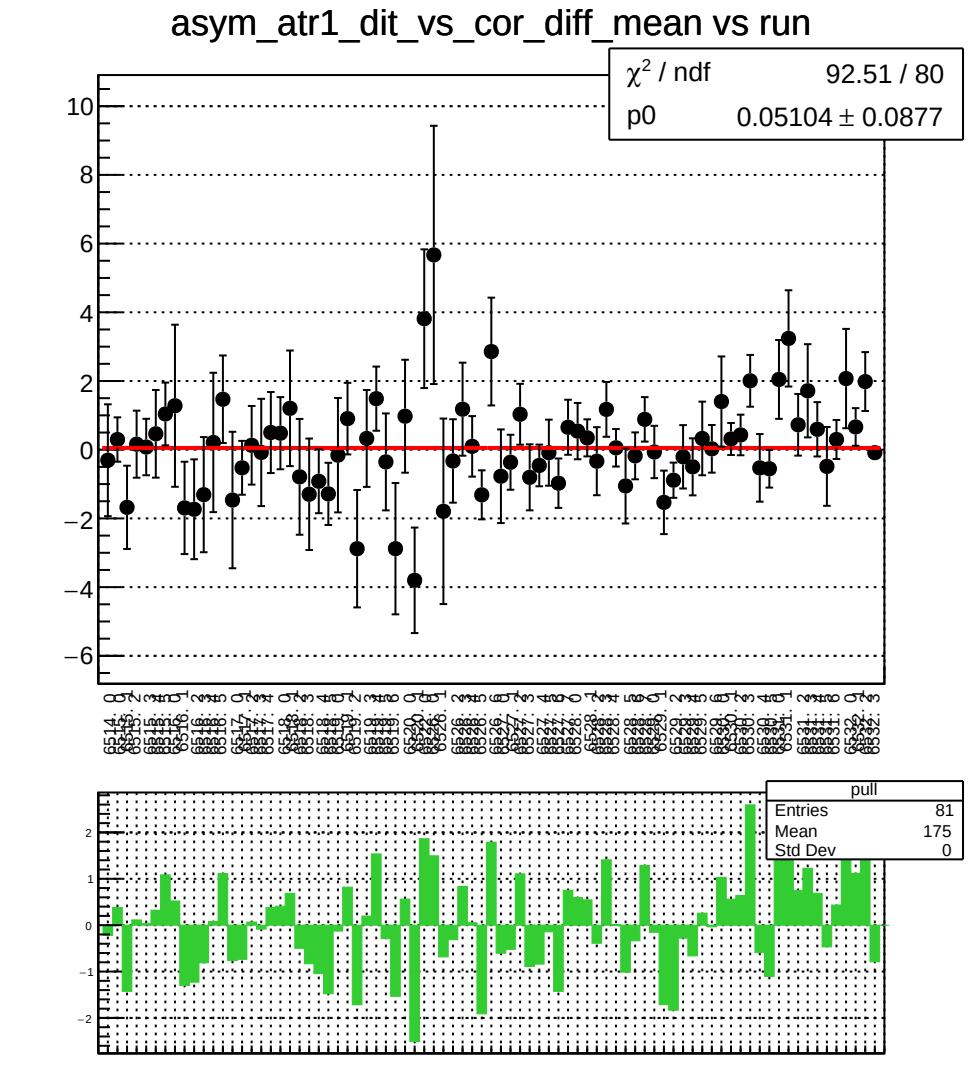

asym_atr1_mean vs run
×10^3
χ² / ndf 69.14 / 80
p0 −270.9 ± 3352
100
50
0
−50
−100
pull
Entries 81
Mean −158.8
Std Dev 0
2
1
0
−1
−2

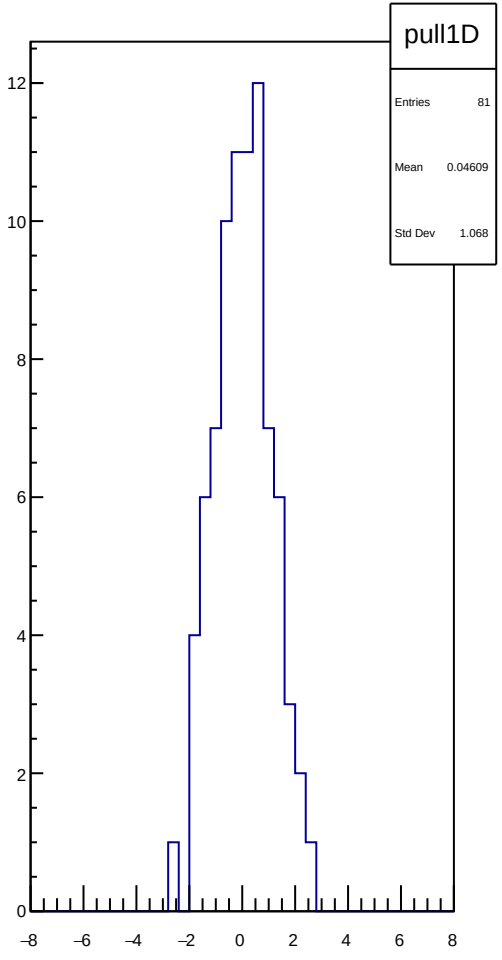

pull1D
Entries 81
Mean 0.01265
Std Dev 0.9238
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

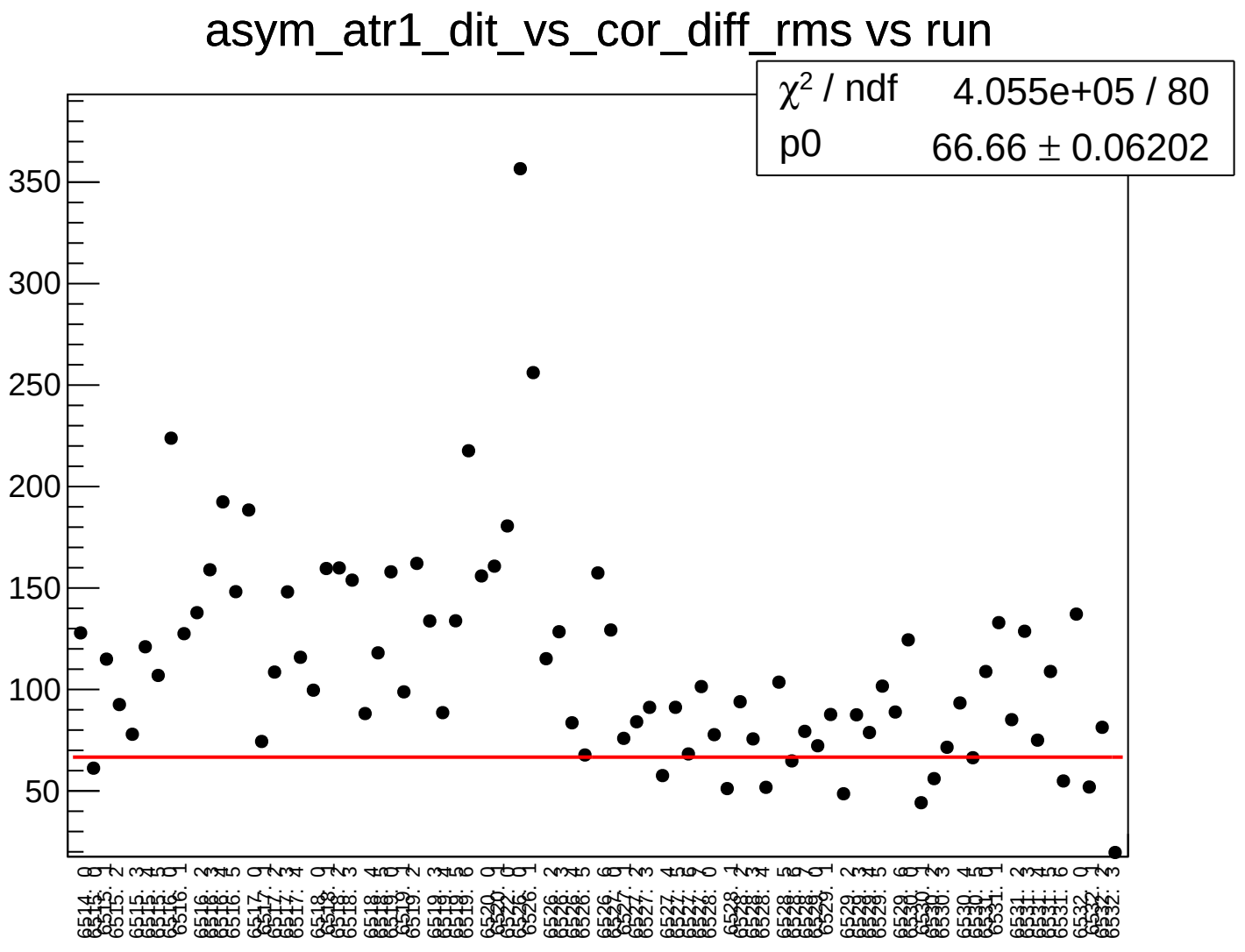

asym_atr1_rms vs run
χ² / ndf 594.8 / 80
p0 2960 ± 2.37
3200
3100
3000
2900
2800

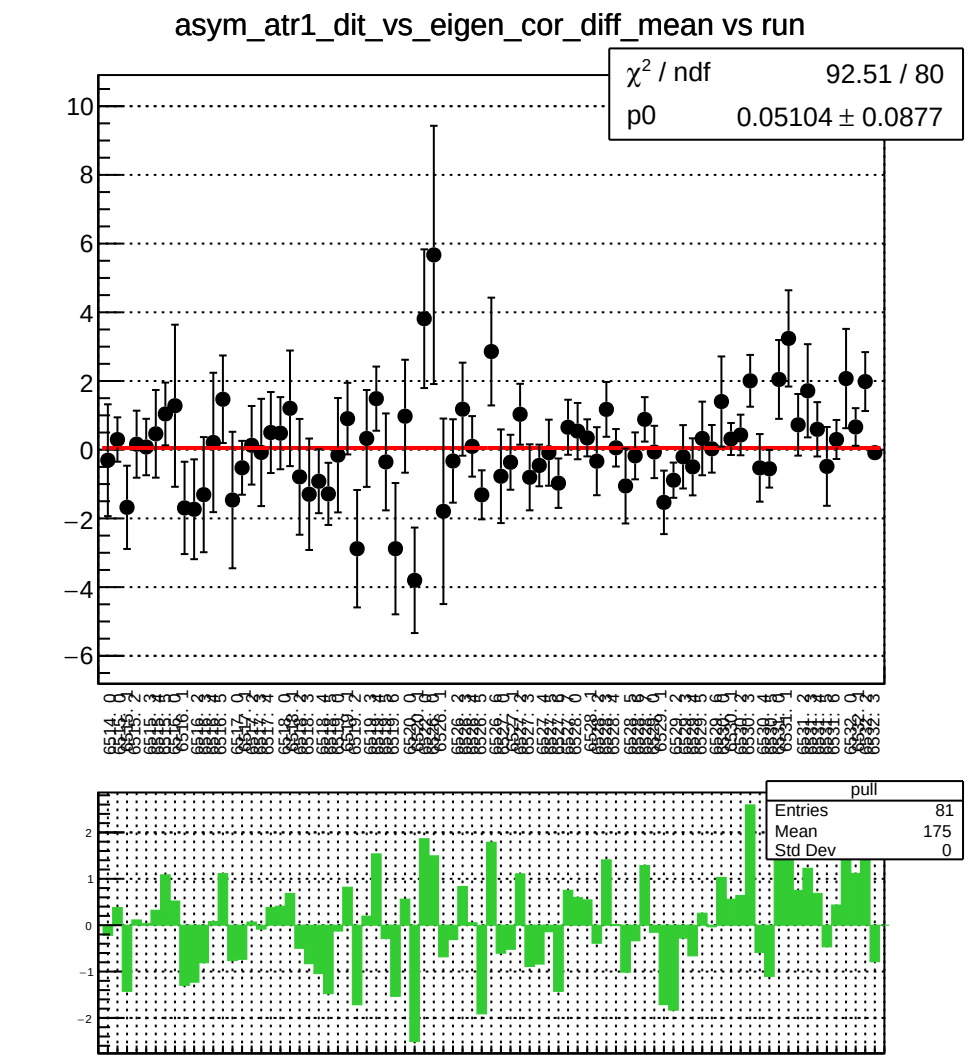

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 87.3 / 80
p0 1.574e−14 ± 2.837e−14
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 81
Mean 56.77
Std Dev 20.18
2
1
0
−1
−2
pull1D
Entries 81
Mean −0.1052
Std Dev 1.033
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

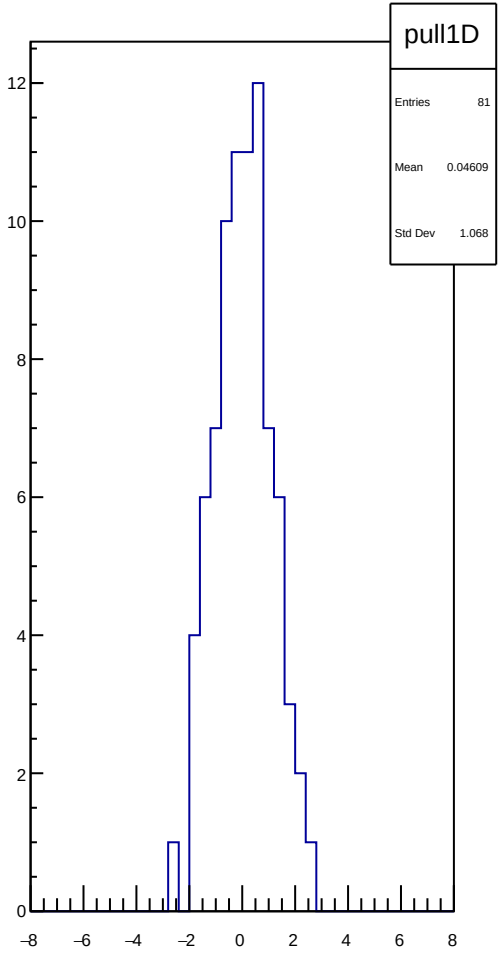

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 8.048e+05 / 80
p0 1.744e−11 ± 2.006e−14
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

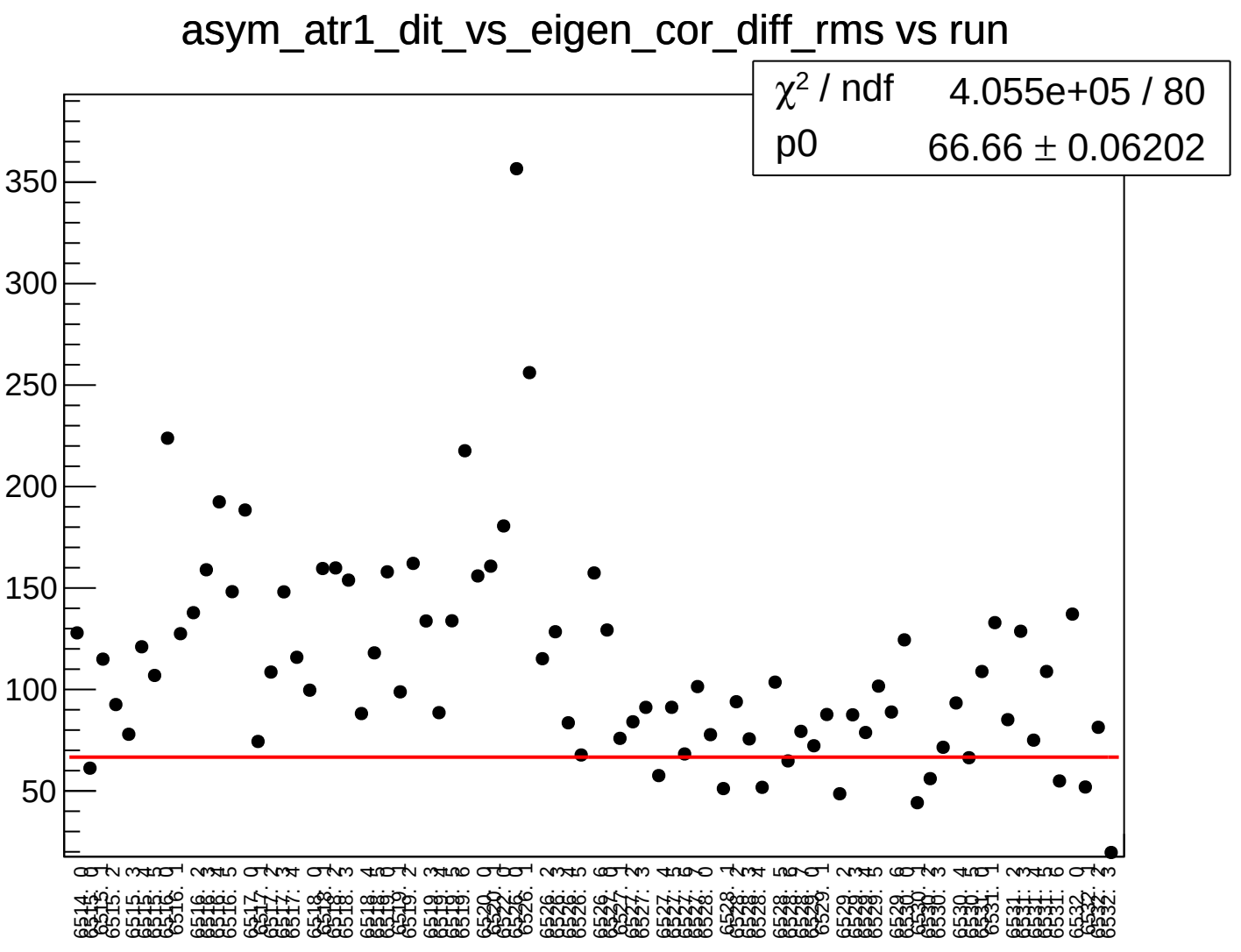

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 92.51 / 80
p0 0.05104 ± 0.0877
pull
Entries 81
Mean 175
Std Dev 0

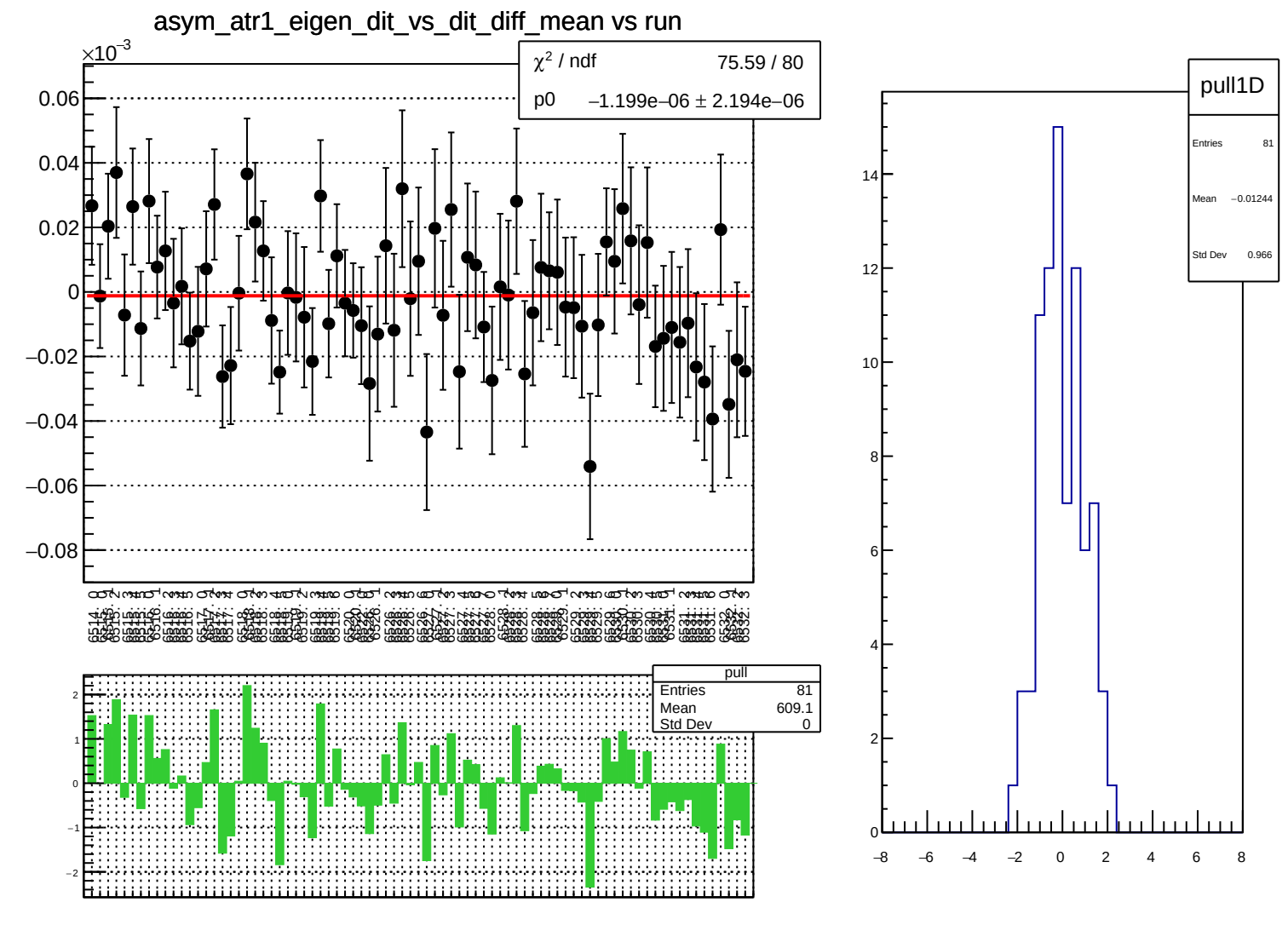

pull1D
Entries 81
Mean 0.04609
Std Dev 1.068

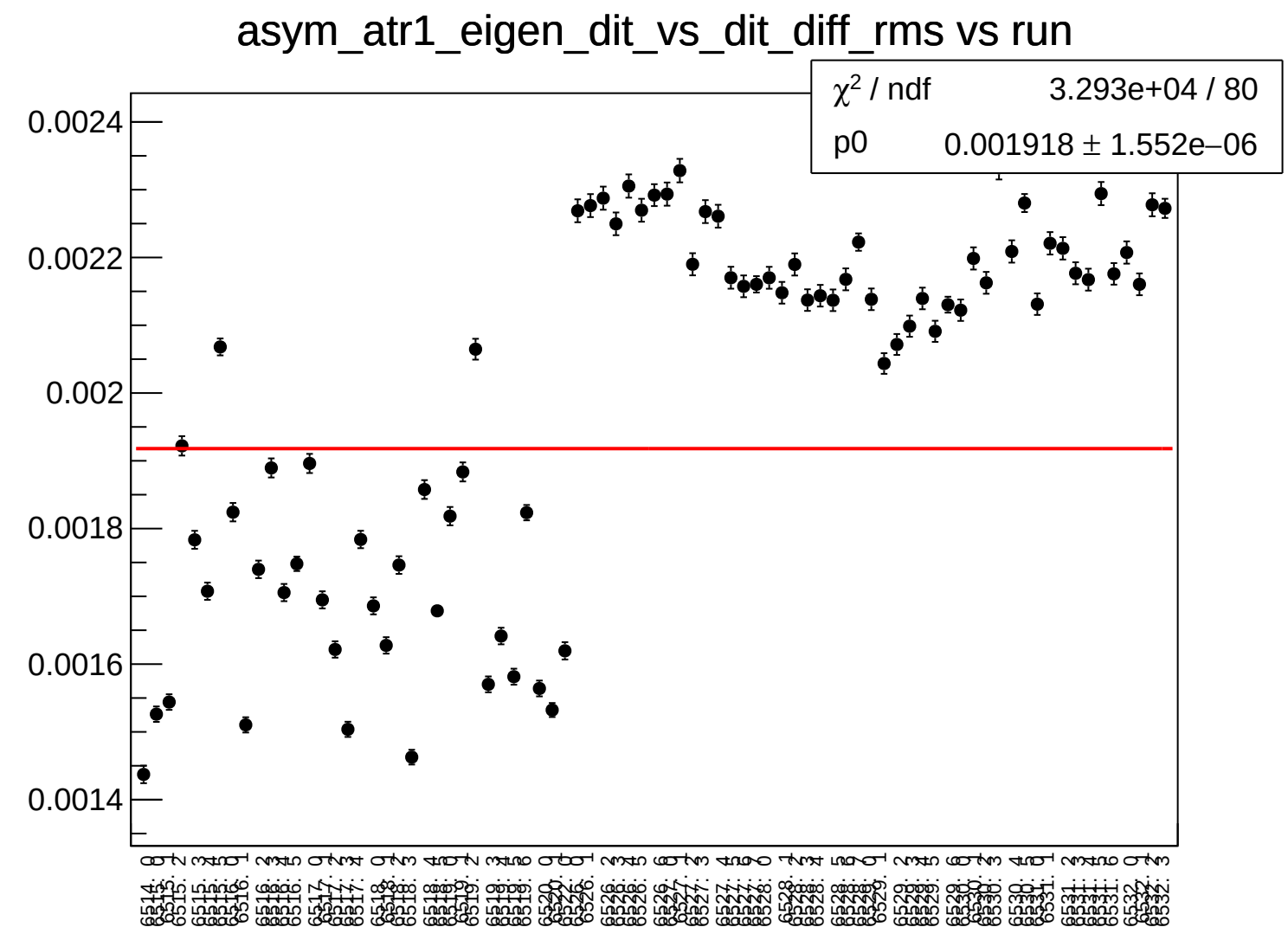

asym_atr1_dit_vs_cor_diff_rms vs run
χ² / ndf 4.055e+05 / 80
p0 66.66 ± 0.06202
350
300
250
200
150
100
50

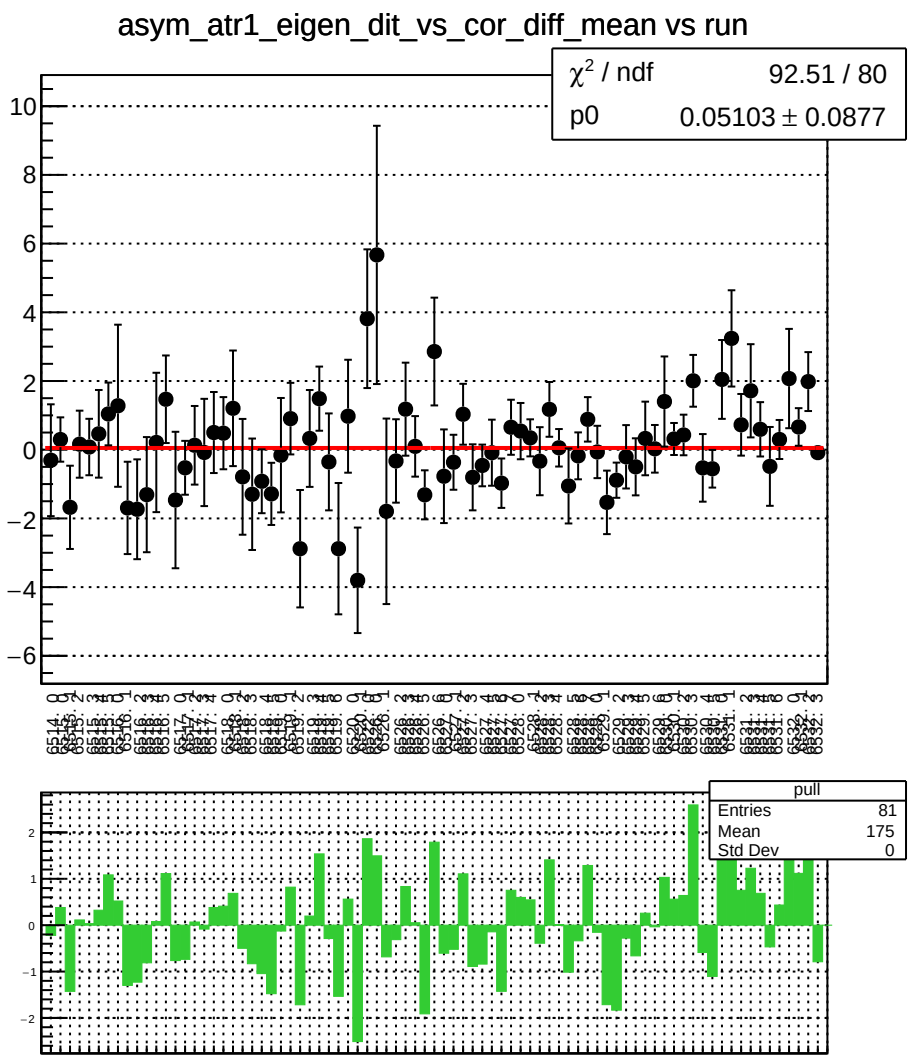

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.51 / 80
p0 0.05104 ± 0.0877
pull
Entries 81
Mean 175
Std Dev 0

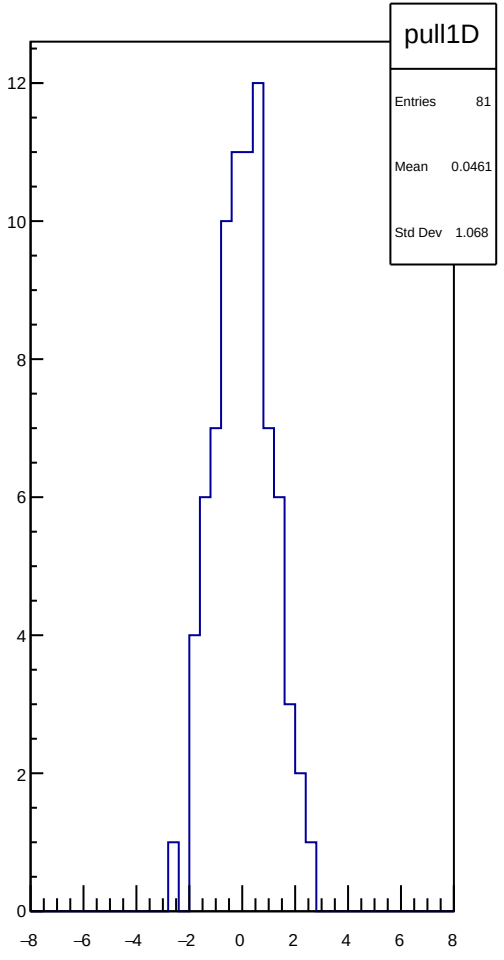

pull1D
Entries 81
Mean 0.04609
Std Dev 1.068

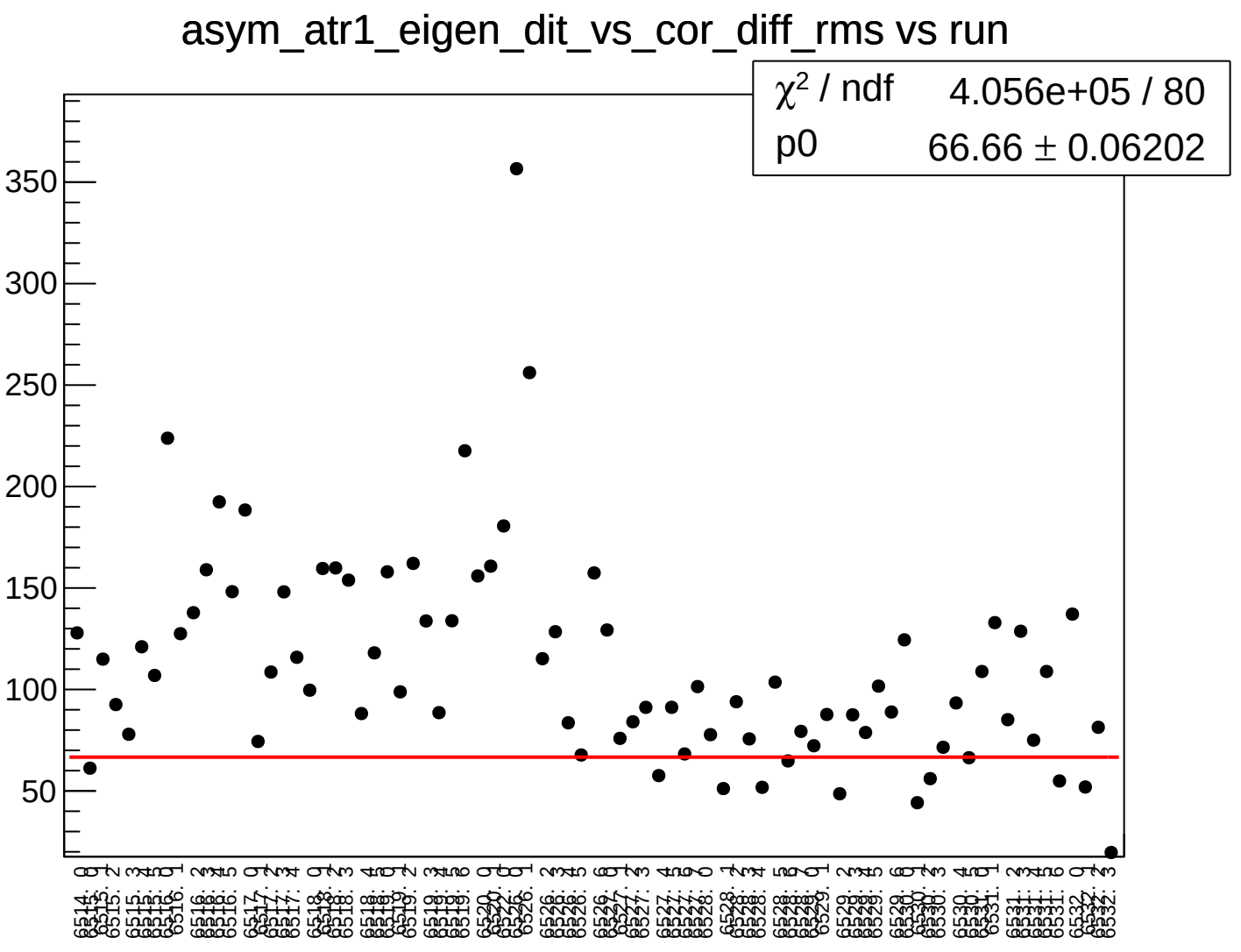

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.055e+05 / 80
p0 66.66 ± 0.06202
350
300
250
200
150
100
50

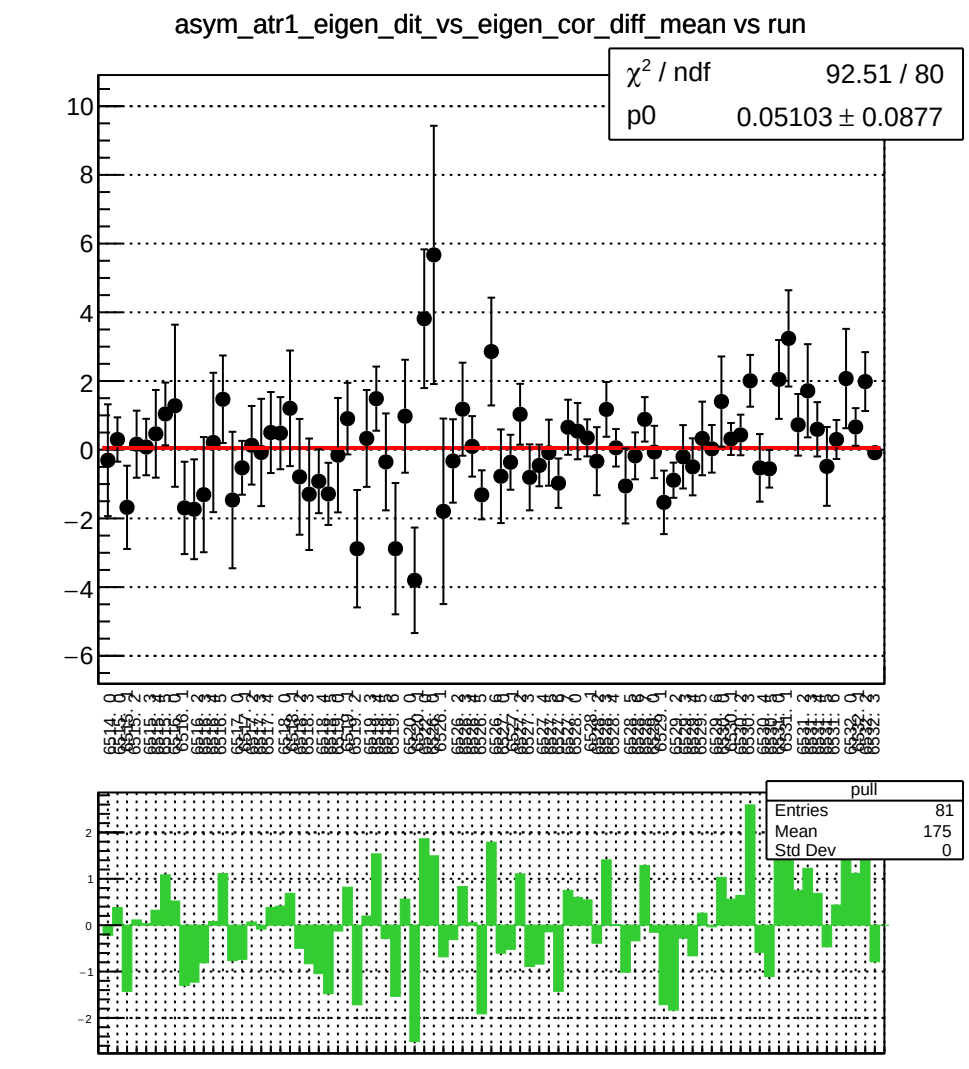

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10−3
χ2 / ndf 75.59 / 80
p0 −1.199e−06 ± 2.194e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 81
Mean 609.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 81
Mean −0.01244
Std Dev 0.966
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

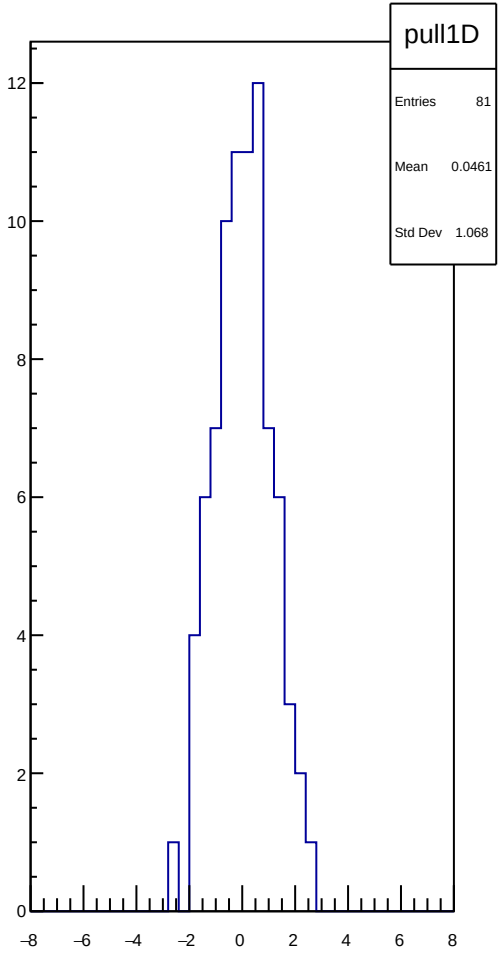

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.293e+04 / 80
p0 0.001918 ± 1.552e−06
0.0024
0.0022
0.002
0.0018
0.0016
0.0014

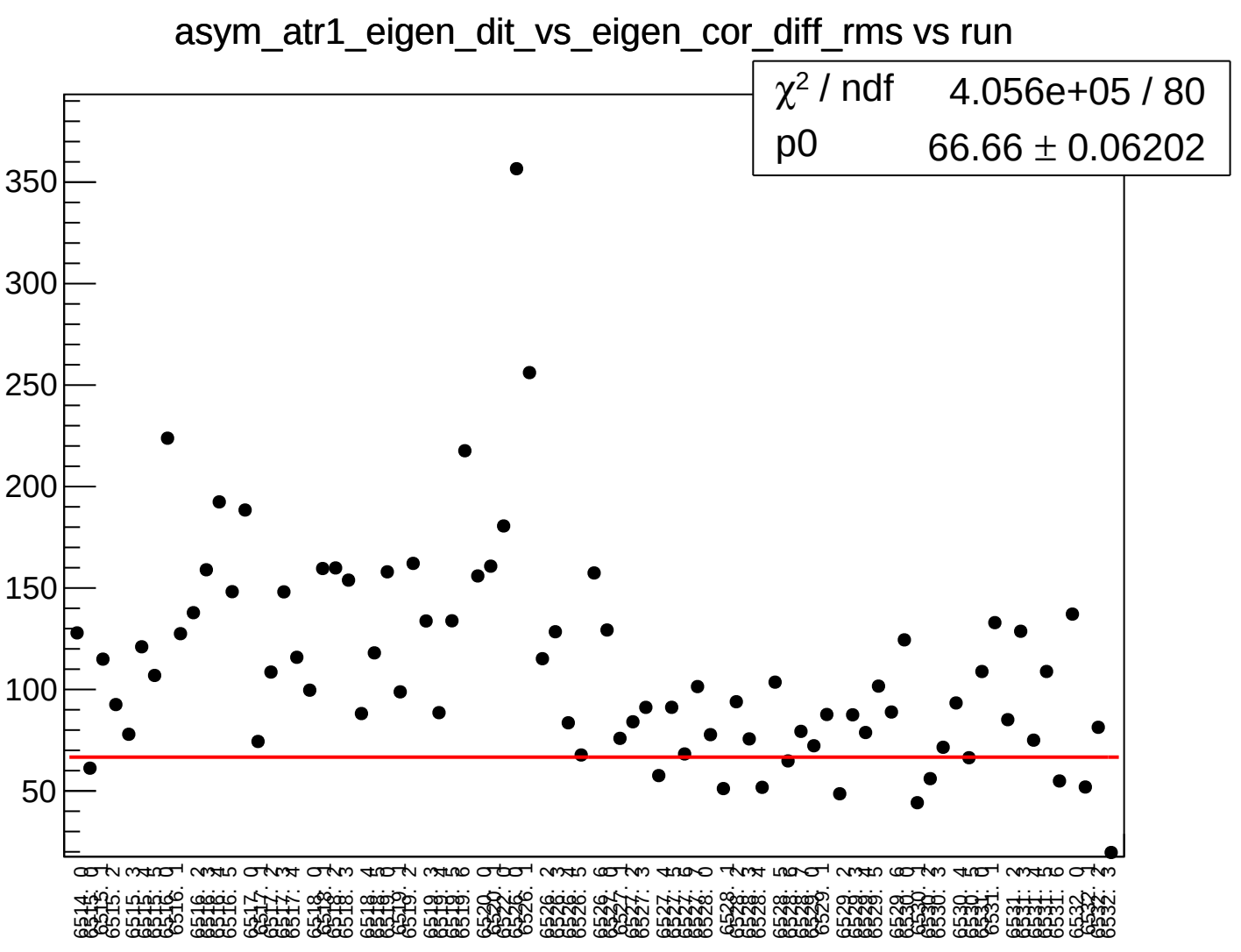

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.51 / 80
p0 0.05103 ± 0.0877
pull
Entries 81
Mean 175
Std Dev 0

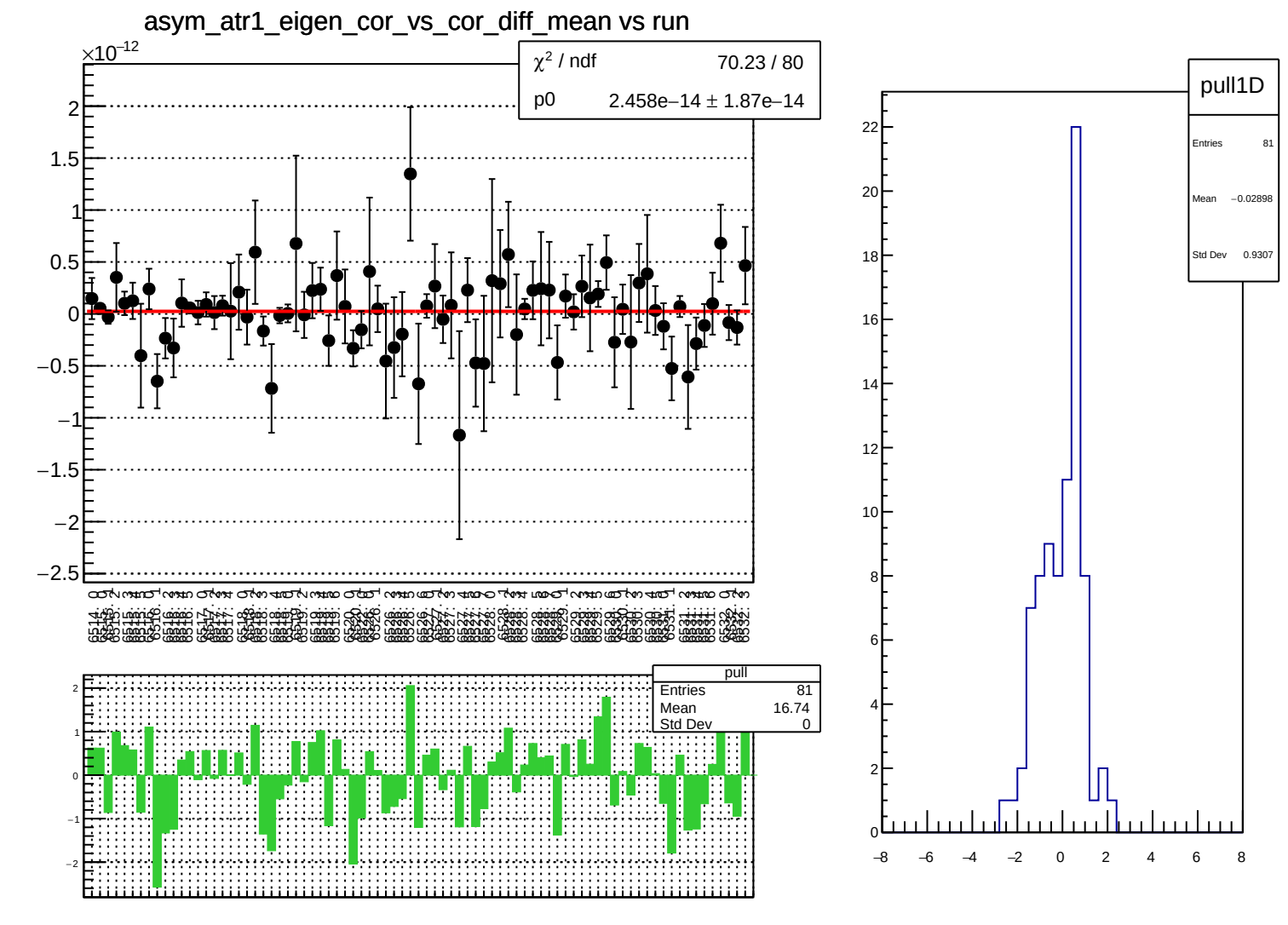

pull1D
Entries 81
Mean 0.0461
Std Dev 1.068

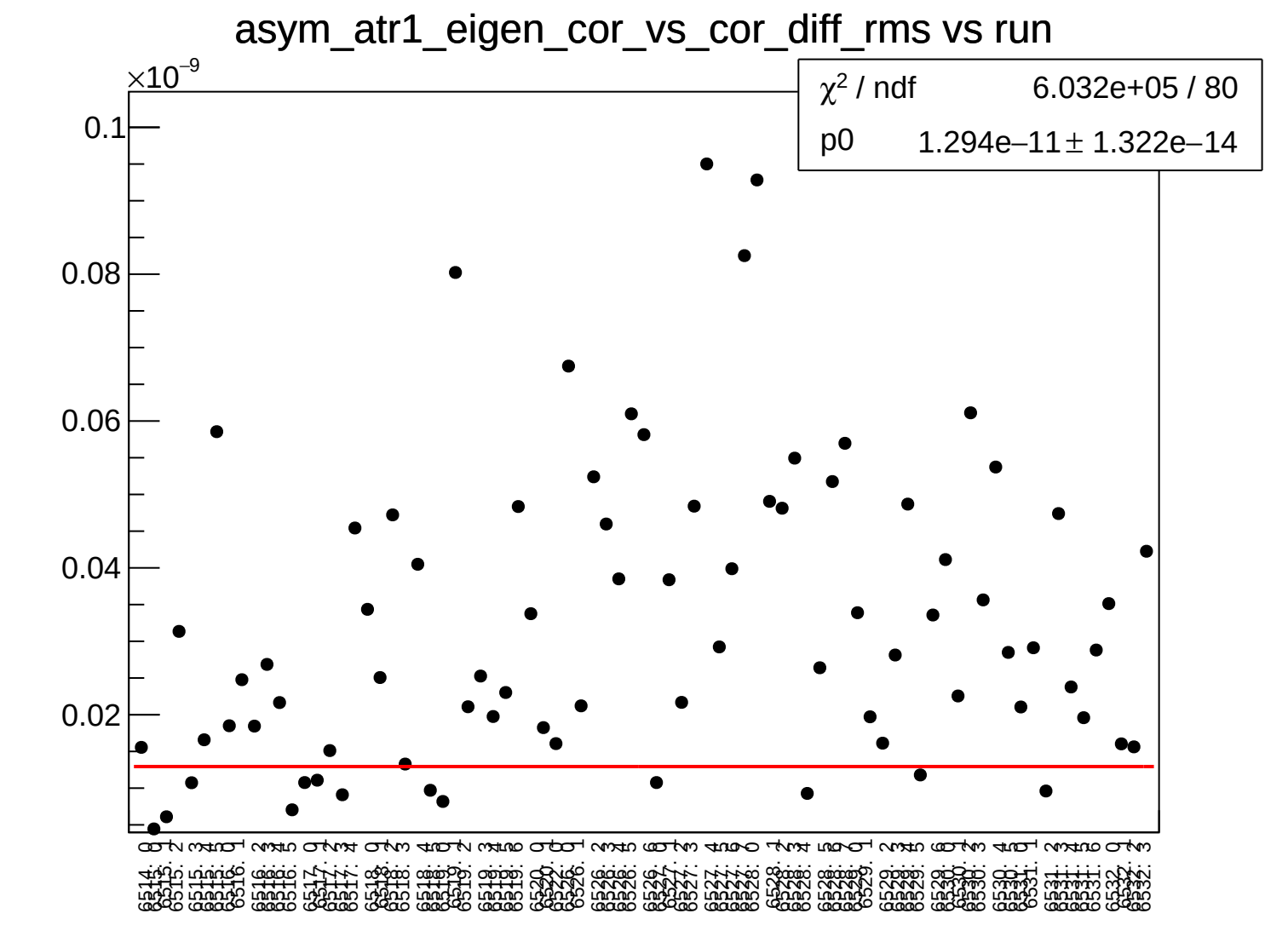

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.056e+05 / 80
p0 66.66 ± 0.06202
350
300
250
200
150
100
50

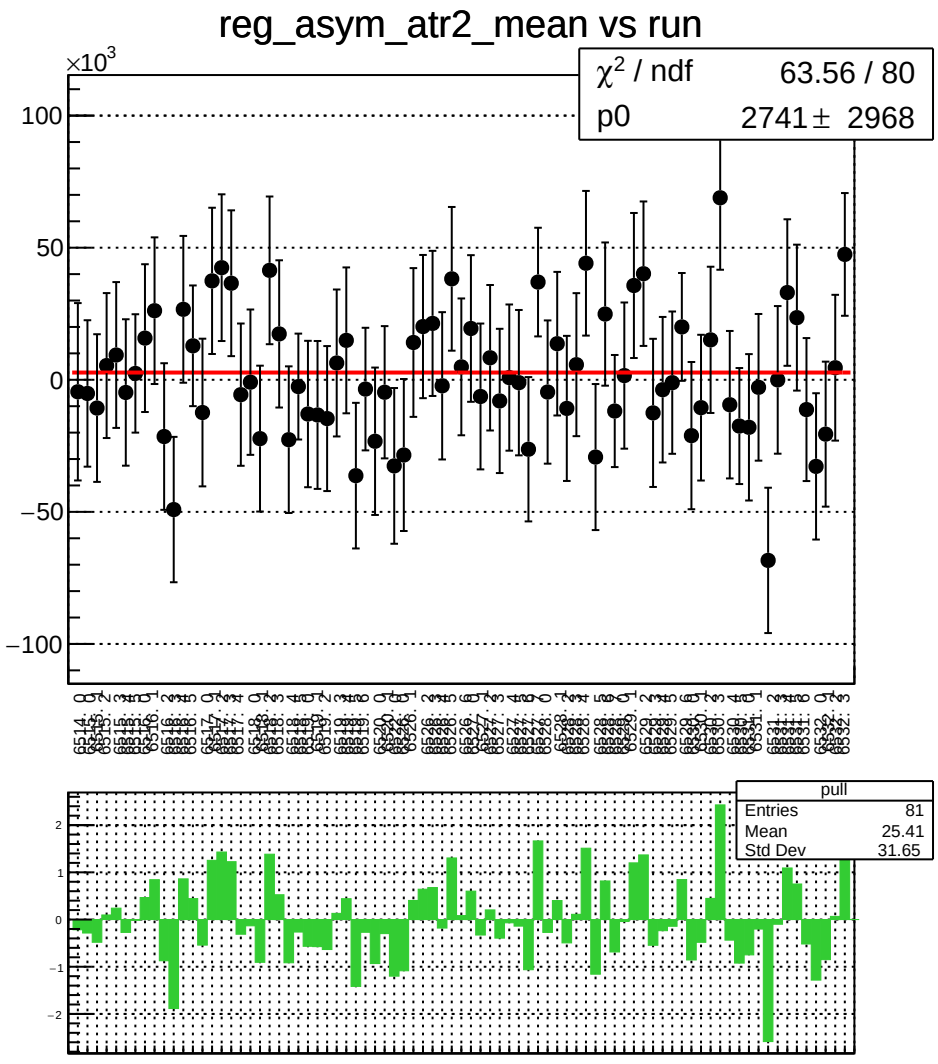

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.51 / 80
p0 0.05103 ± 0.0877
pull
Entries 81
Mean 175
Std Dev 0

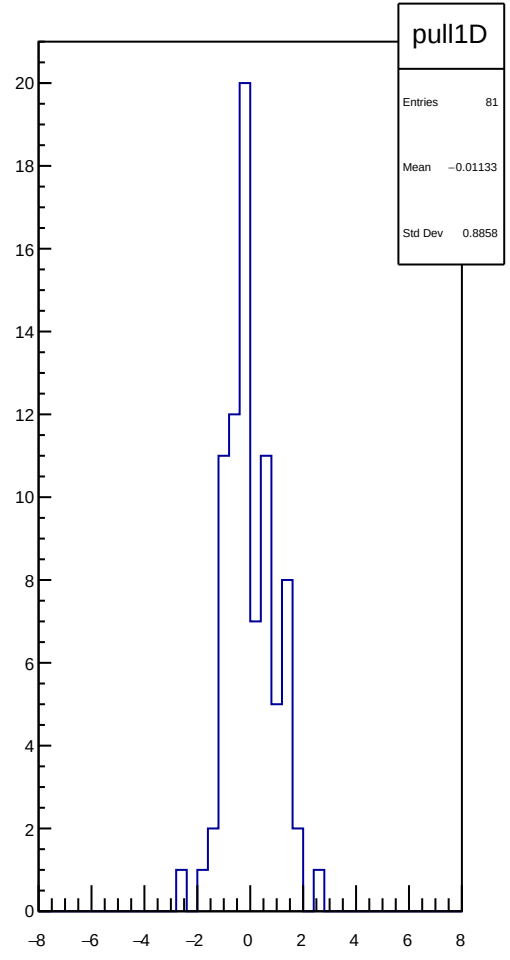

pull1D
Entries 81
Mean 0.0461
Std Dev 1.068

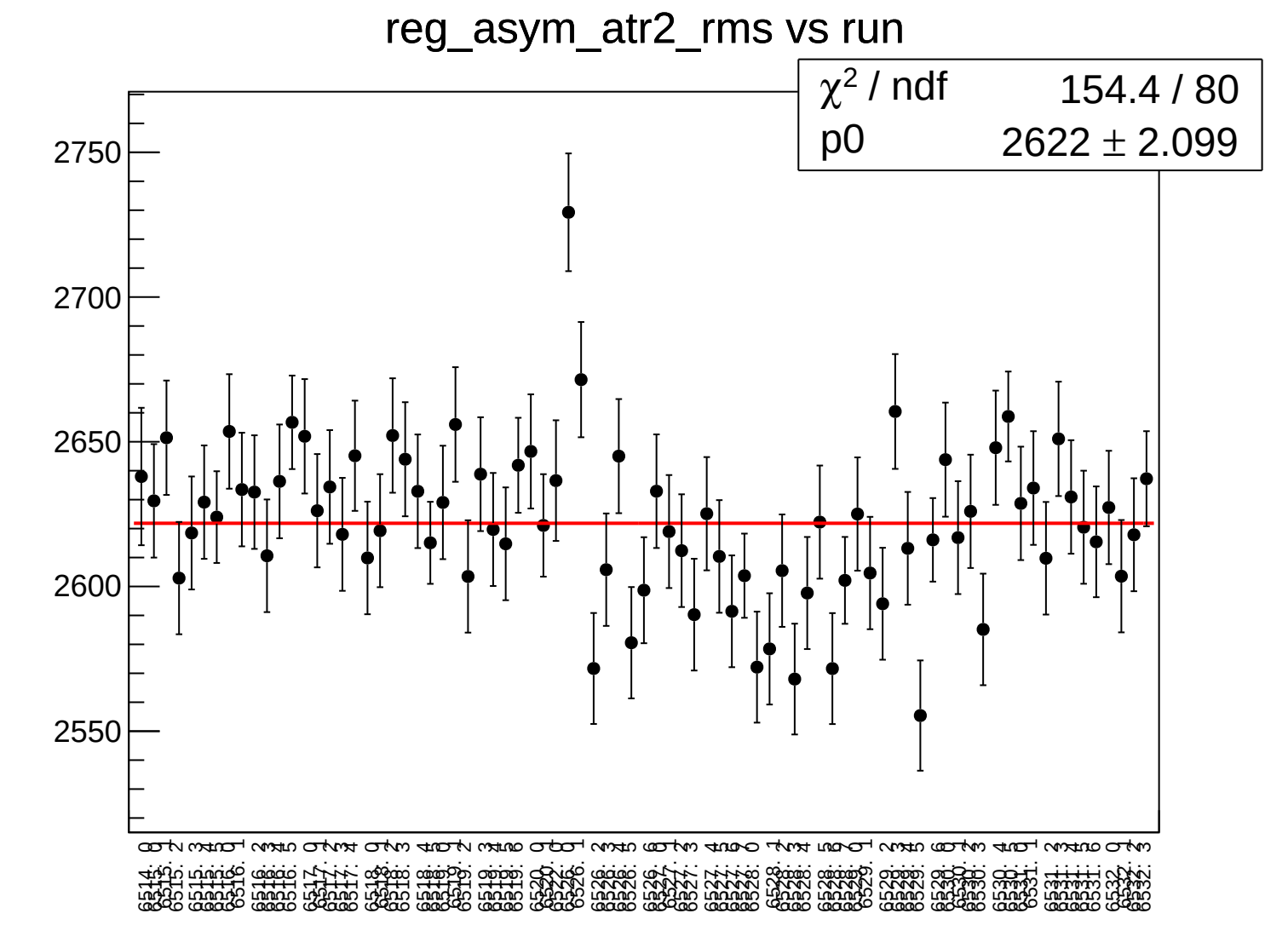

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.056e+05 / 80
p0 66.66 ± 0.06202
350
300
250
200
150
100
50

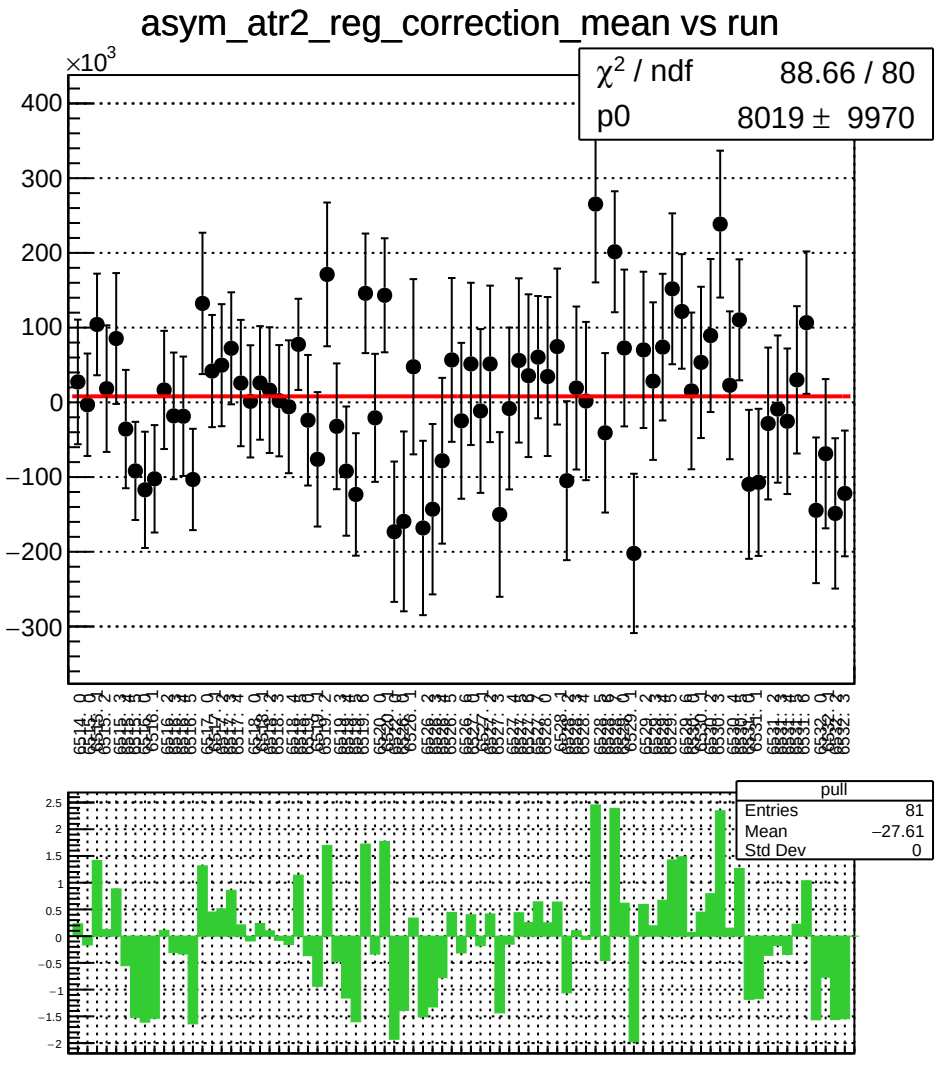

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.23 / 80
p0 2.458e−14 ± 1.87e−14
pull
Entries 81
Mean 16.74
Std Dev 0
pull1D
Entries 81
Mean −0.02898
Std Dev 0.9307

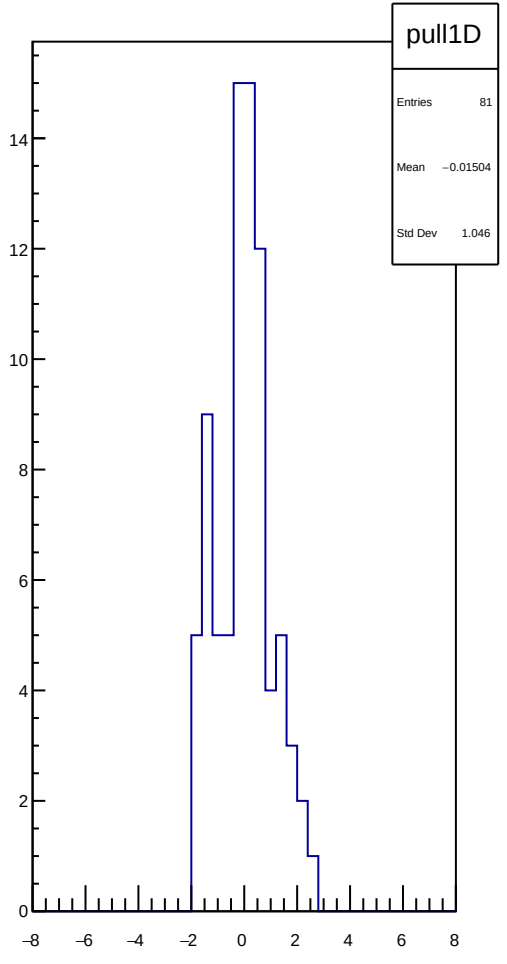

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.032e+05 / 80
p0 1.294e−11 ± 1.322e−14
0.1
0.08
0.06
0.04
0.02

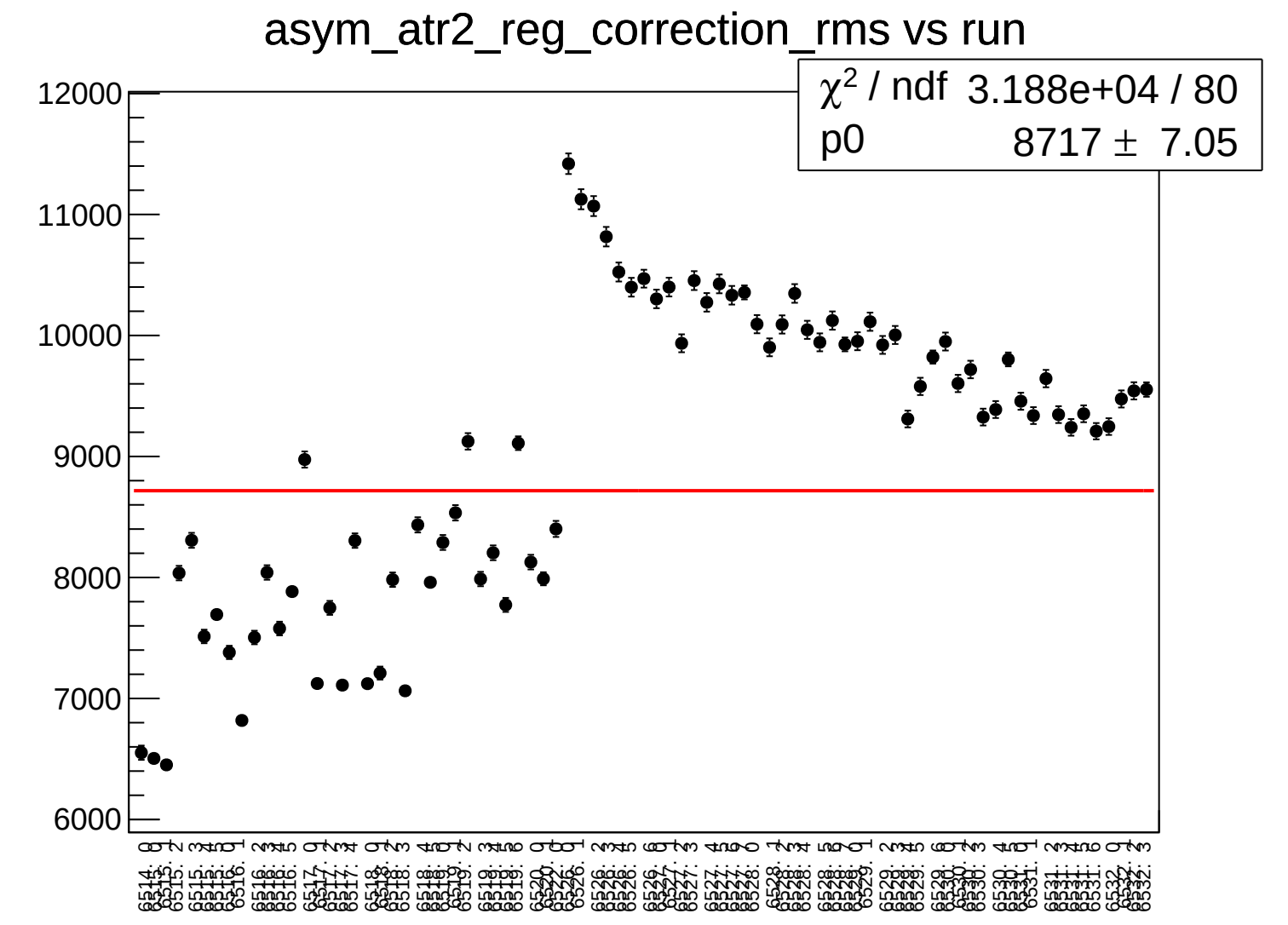

reg_asym_atr2_mean vs run
×10^3
χ² / ndf 63.56 / 80
p0 2741 ± 2968
100
50
0
−50
−100
pull
Entries 81
Mean 25.41
Std Dev 31.65
2
1
0
−1
−2

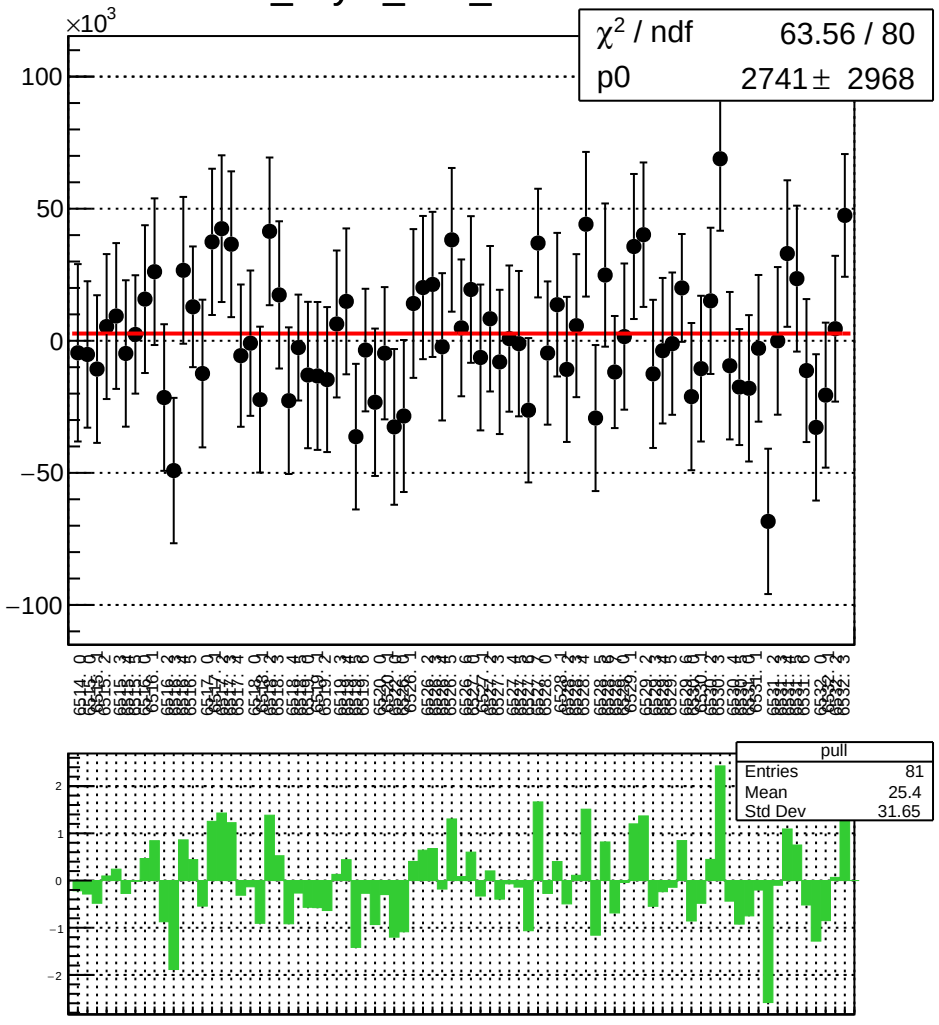

pull1D
Entries 81
Mean −0.01133
Std Dev 0.8858
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

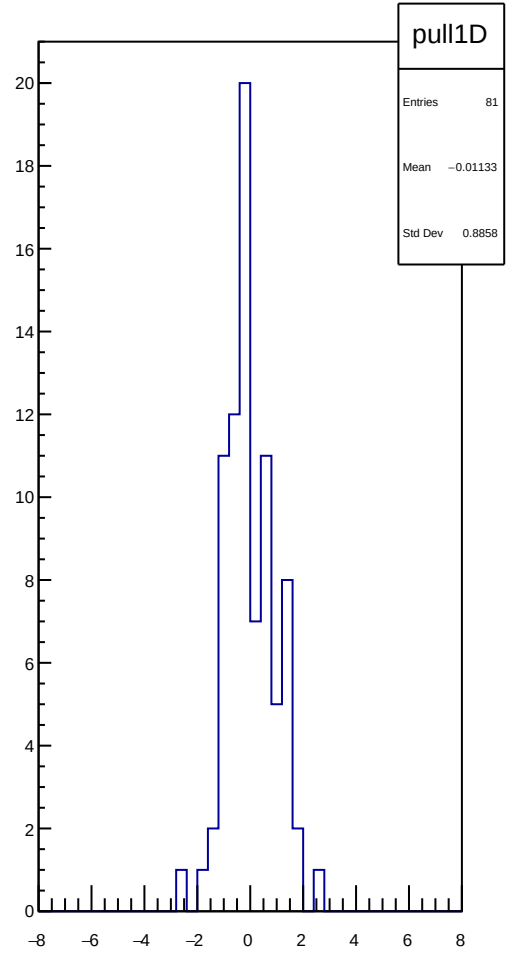

reg_asym_atr2_rms vs run
χ² / ndf 154.4 / 80
p0 2622 ± 2.099
2750
2700
2650
2600
2550

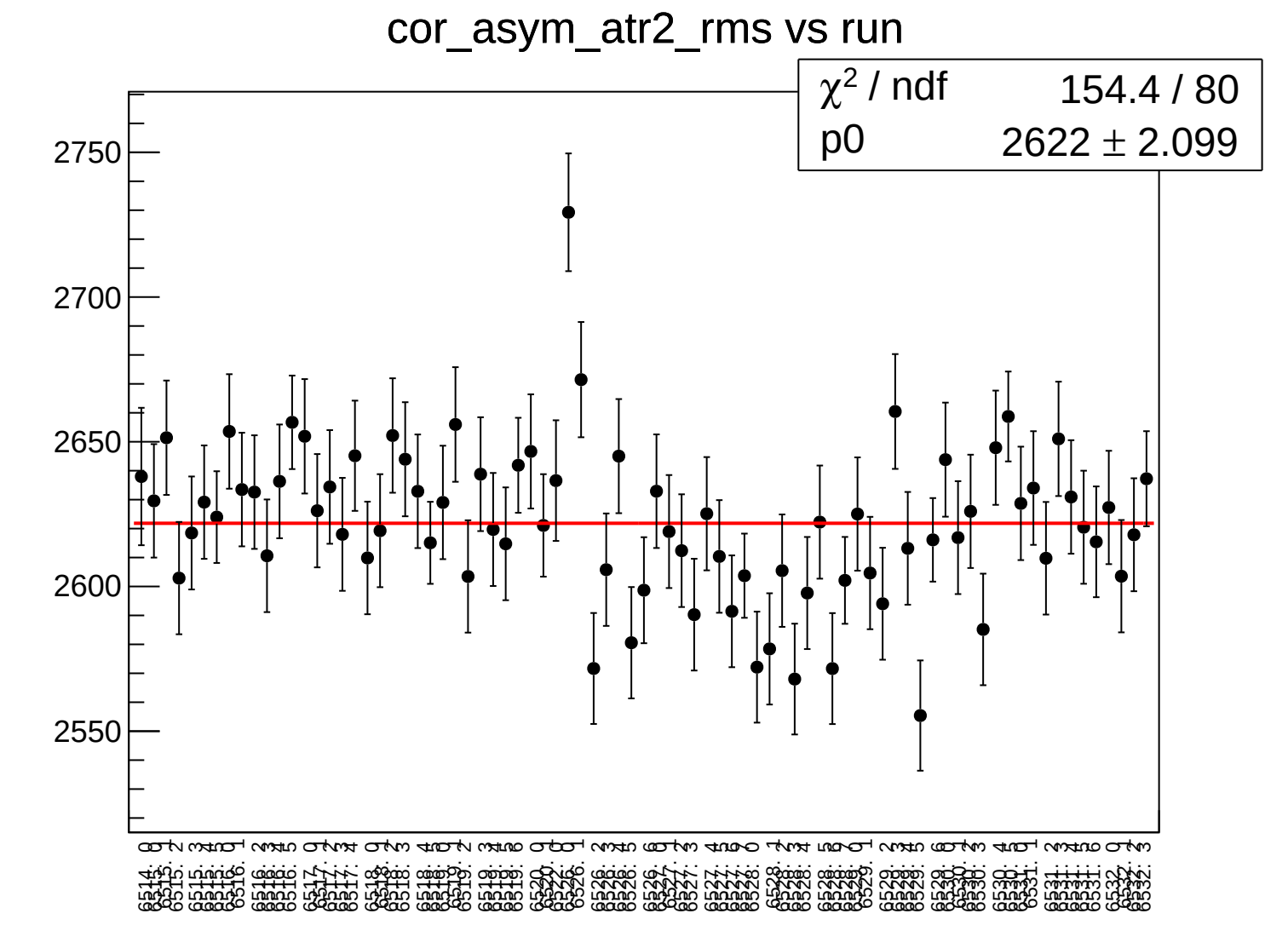

asym_atr2_reg_correction_mean vs run
×10^3
χ² / ndf 88.66 / 80
p0 8019 ± 9970
pull
Entries 81
Mean −27.61
Std Dev 0

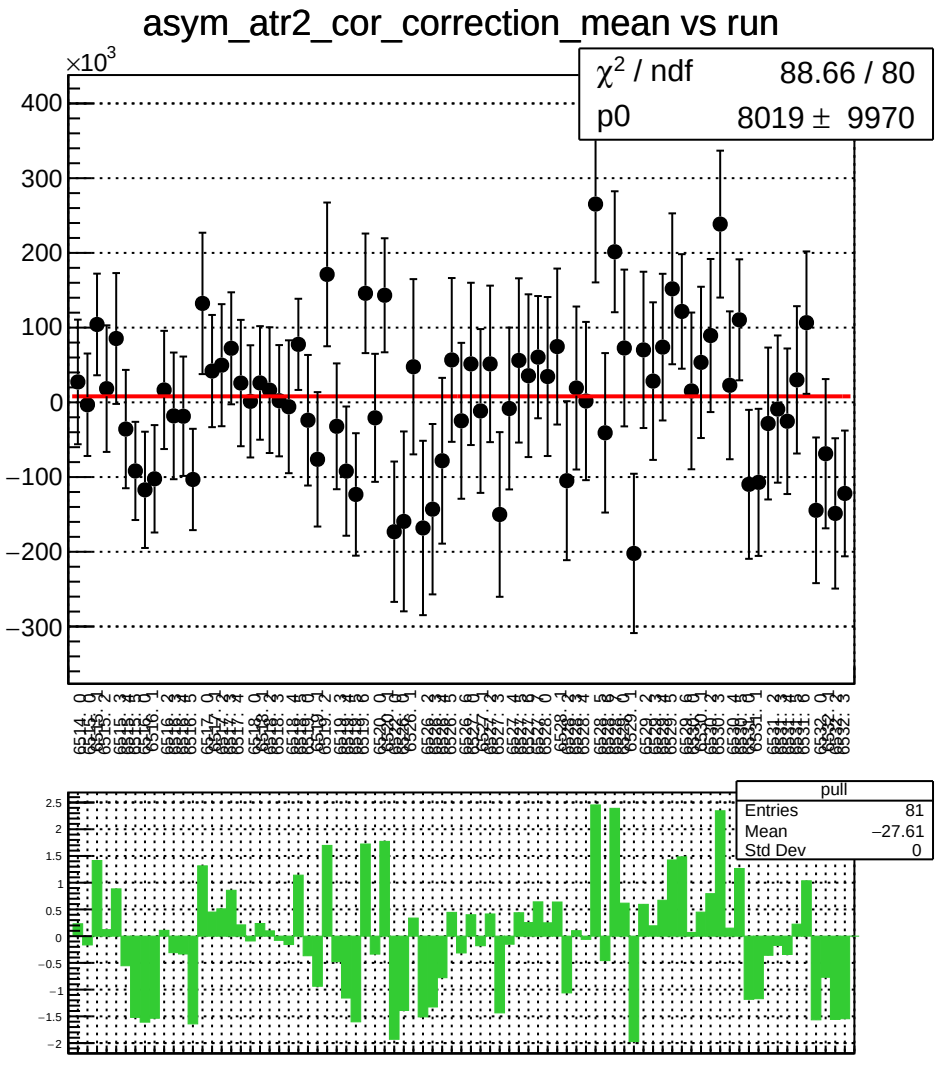

pull1D
Entries 81
Mean −0.01504
Std Dev 1.046

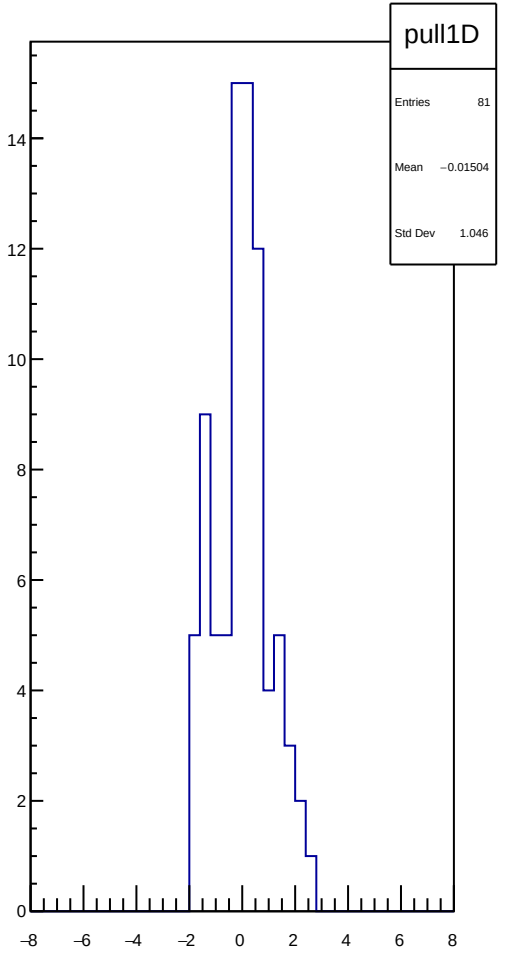

asym_atr2_reg_correction_rms vs run
χ² / ndf 3.188e+04 / 80
p0 8717 ± 7.05
12000
11000
10000
9000
8000
7000
6000

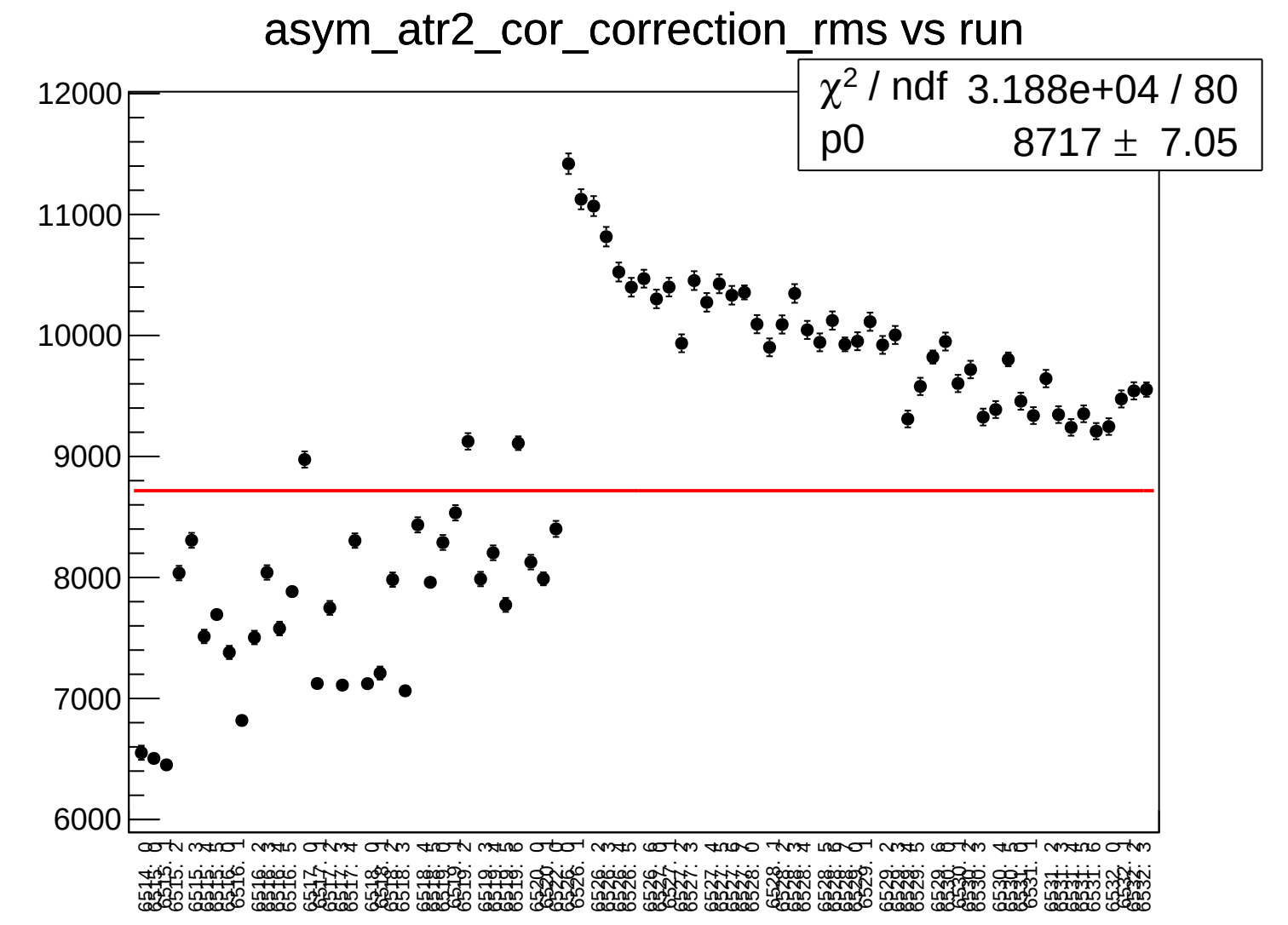

cor_asym_atr2_mean vs run
χ² / ndf 63.56 / 80
p0 2741 ± 2968
×10³
pull
Entries 81
Mean 25.4
Std Dev 31.65

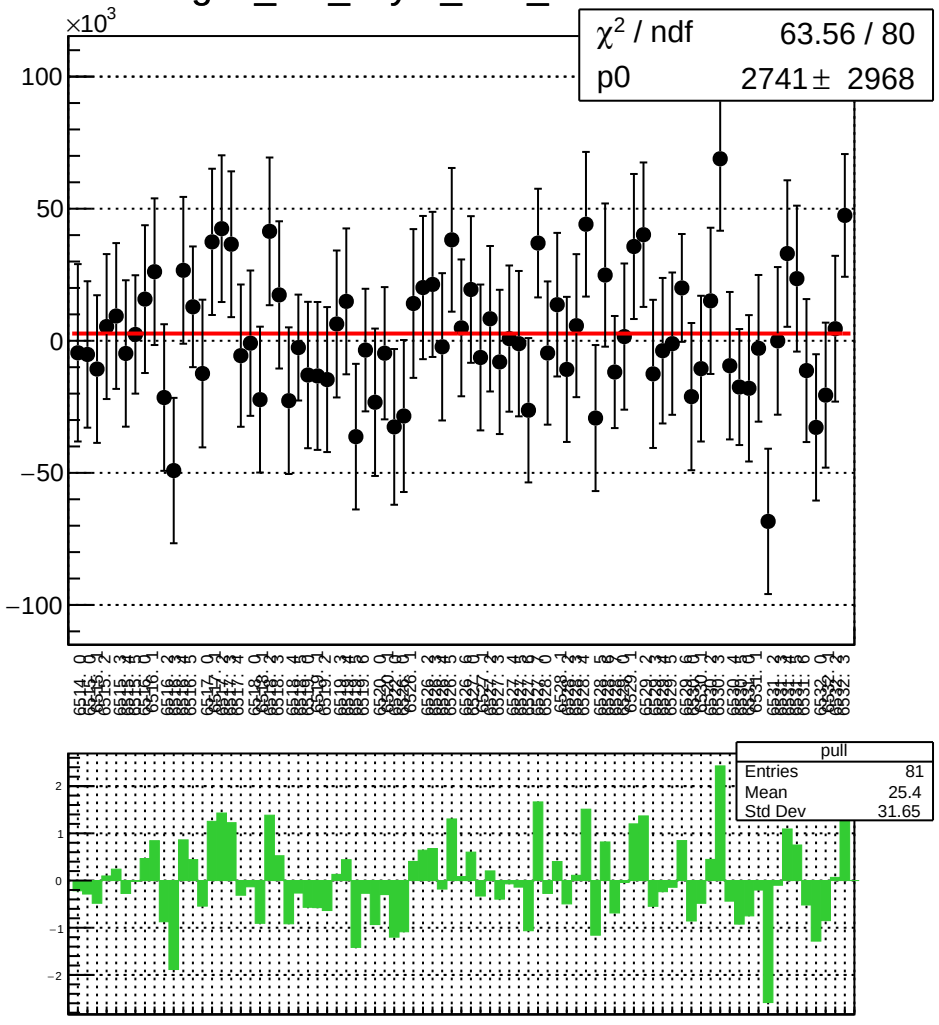

pull1D
Entries 81
Mean −0.01133
Std Dev 0.8858

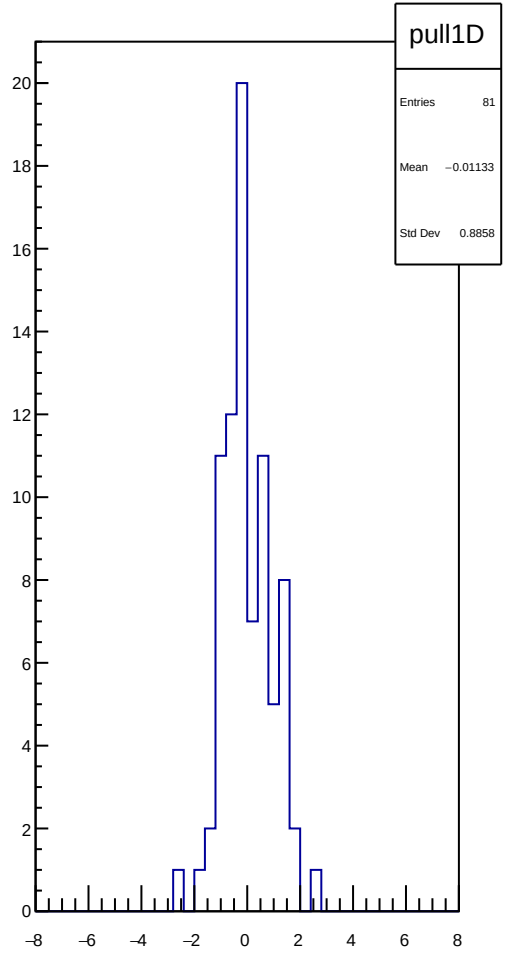

cor_asym_atr2_rms vs run
χ² / ndf 154.4 / 80
p0 2622 ± 2.099
2750
2700
2650
2600
2550

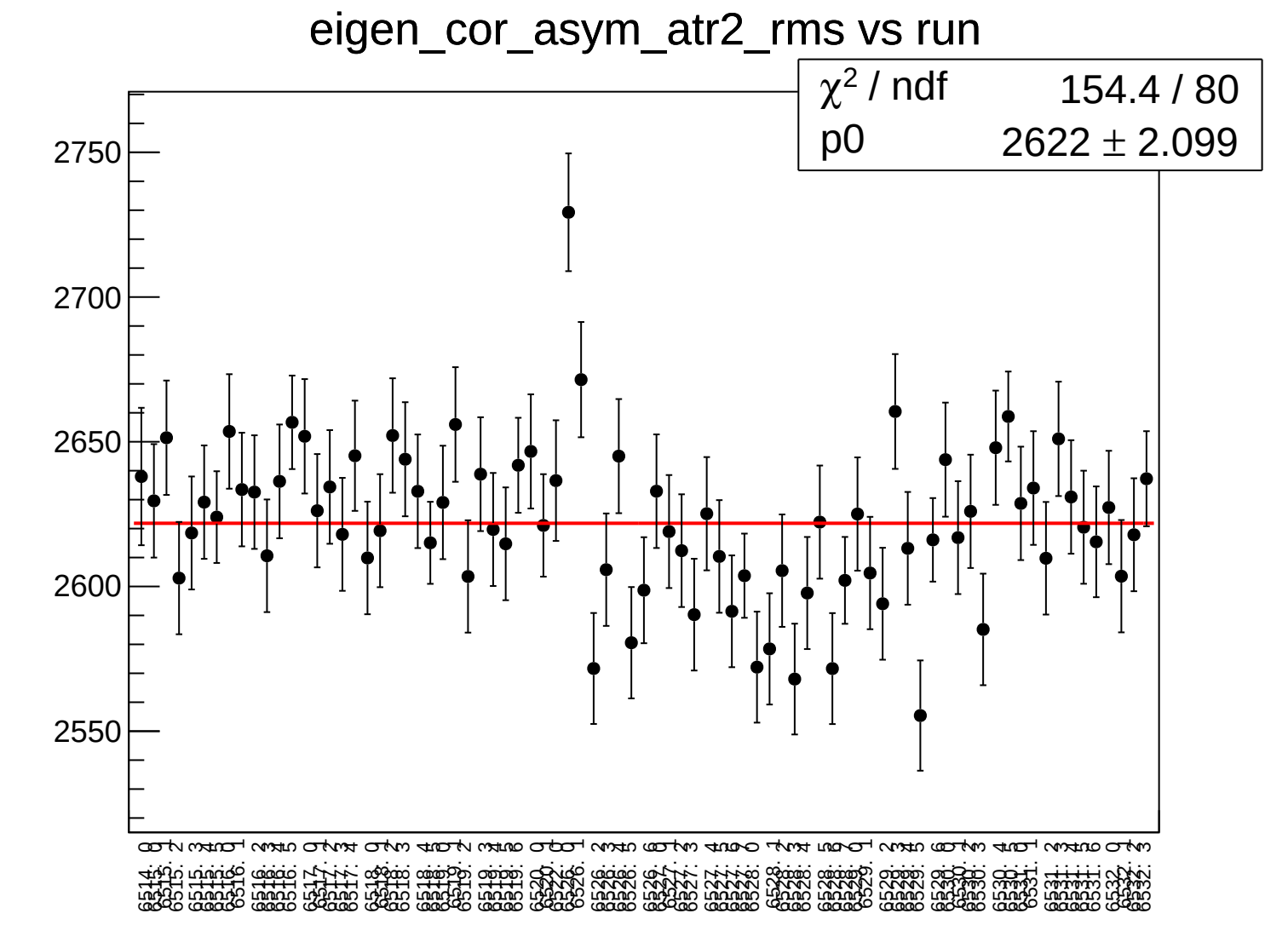

asym_atr2_cor_correction_mean vs run
×10^3
χ² / ndf 88.66 / 80
p0 8019 ± 9970
pull
Entries 81
Mean −27.61
Std Dev 0

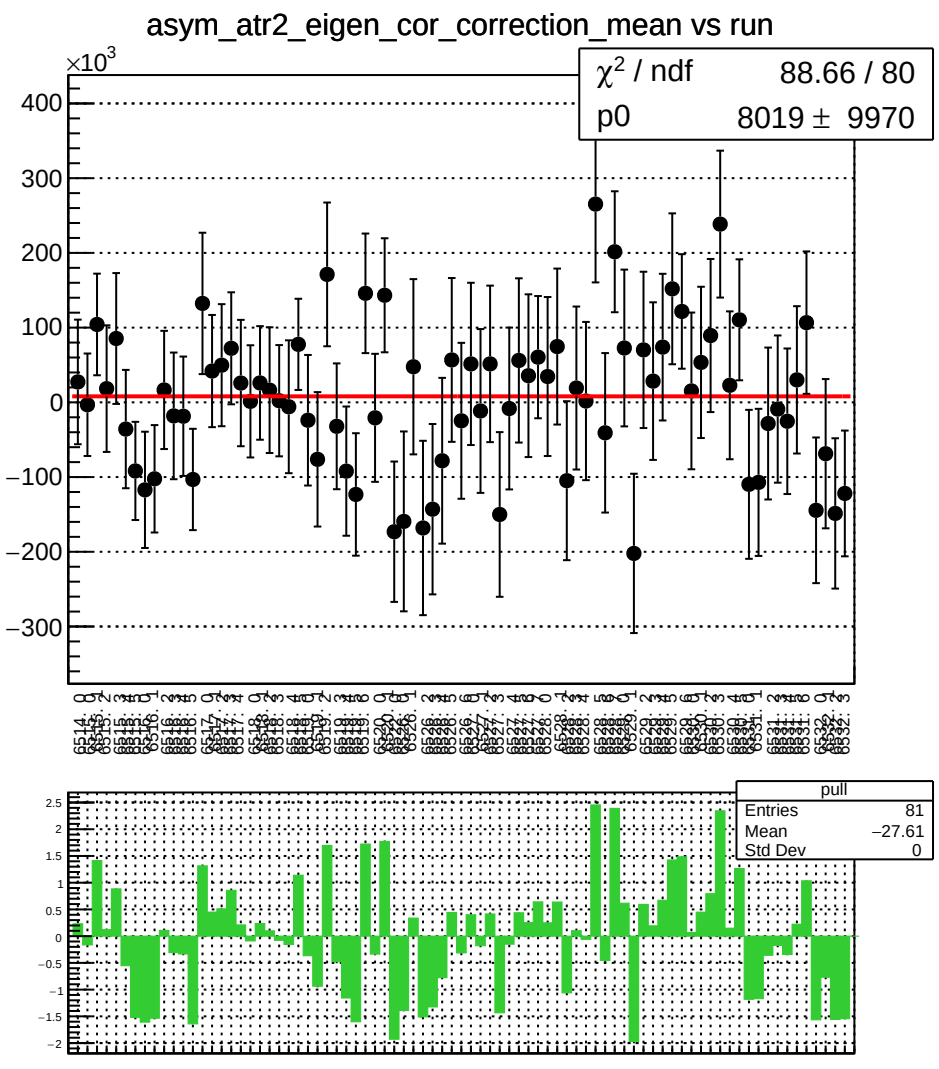

pull1D
Entries 81
Mean −0.01504
Std Dev 1.046

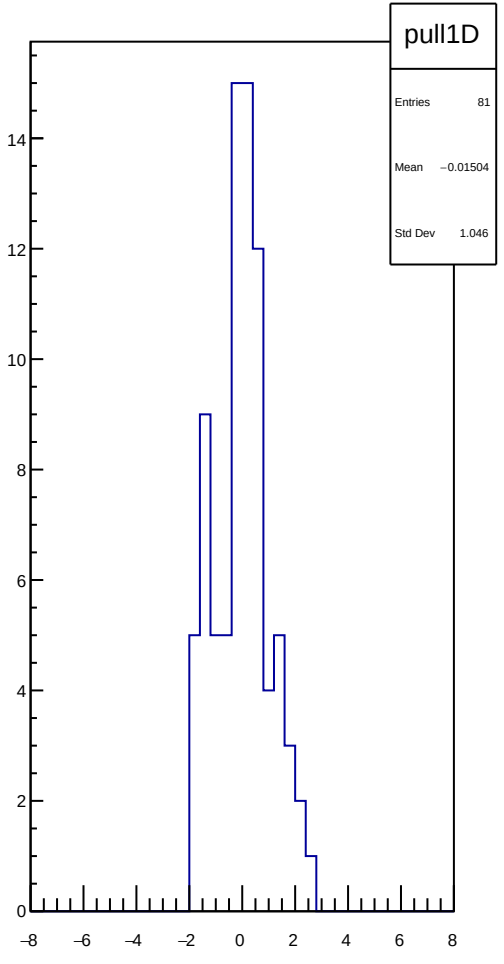

asym_atr2_cor_correction_rms vs run
χ² / ndf 3.188e+04 / 80
p0 8717 ± 7.05
12000
11000
10000
9000
8000
7000
6000

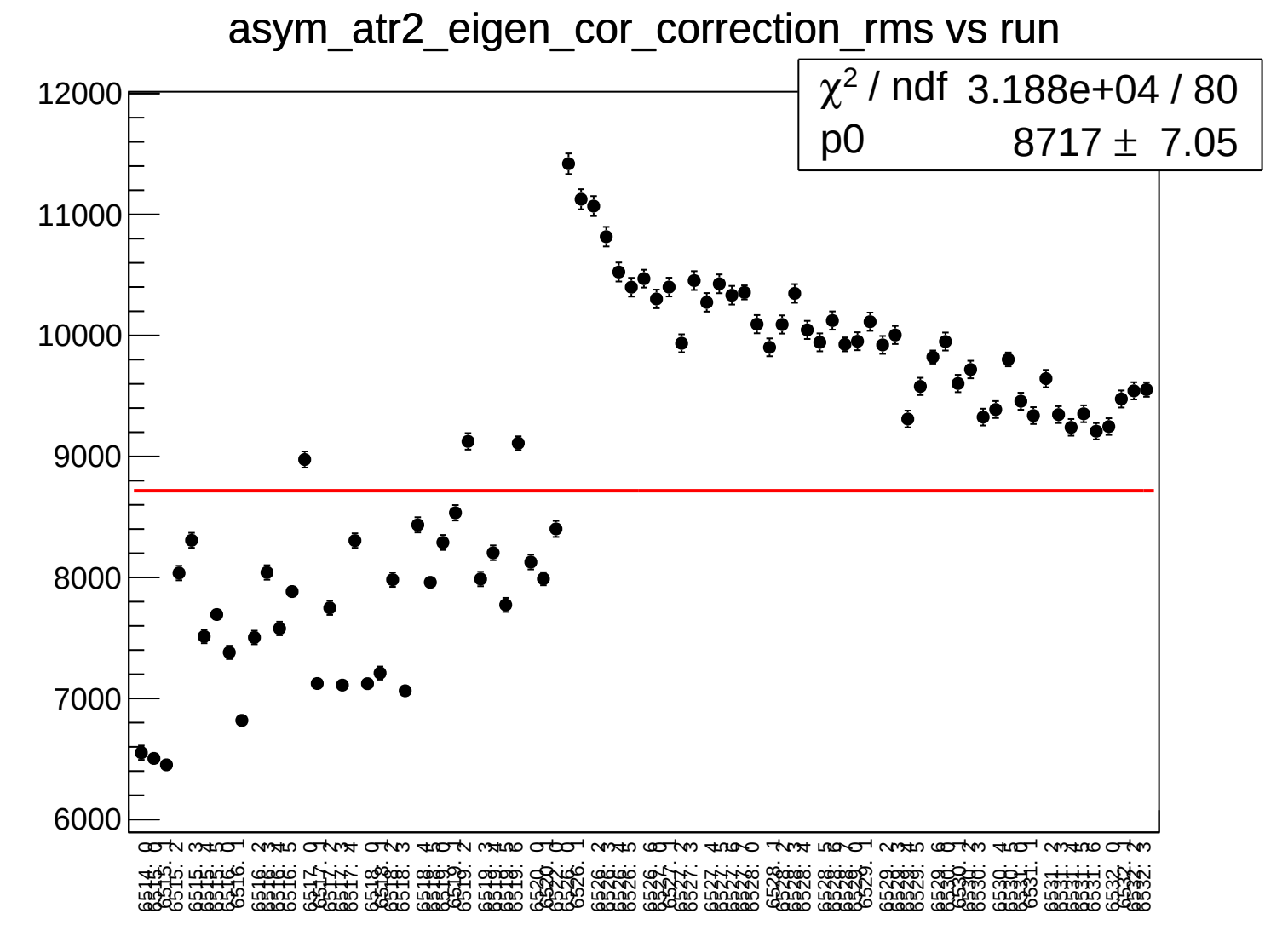

eigen_cor_asym_atr2_mean vs run
×10^3
χ² / ndf 63.56 / 80
p0 2741 ± 2968
100
50
0
−50
−100
pull
Entries 81
Mean 25.4
Std Dev 31.65
2
1
0
−1
−2

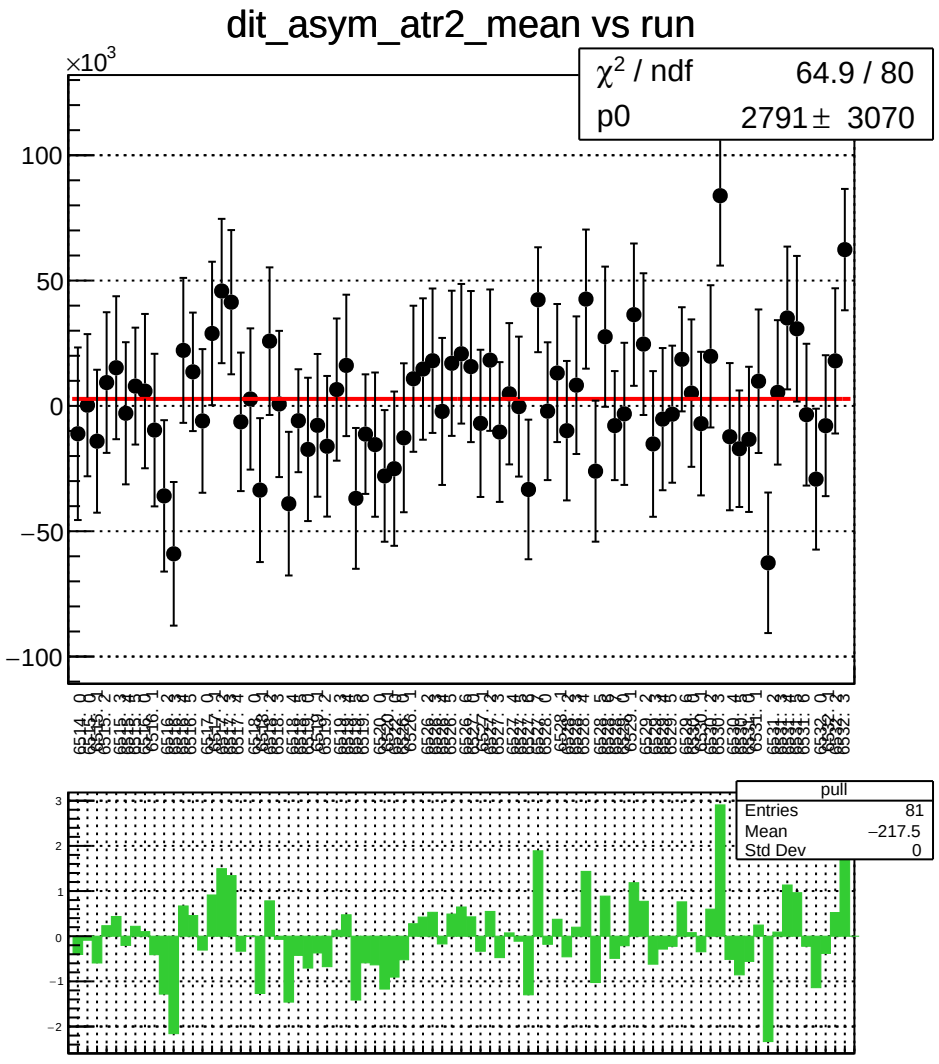

pull1D
Entries 81
Mean −0.01133
Std Dev 0.8858
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

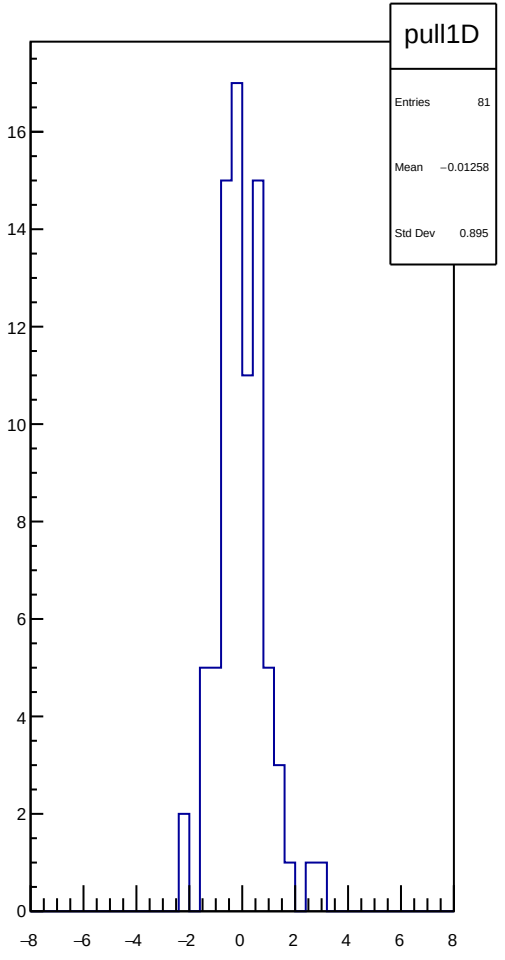

eigen_cor_asym_atr2_rms vs run
χ² / ndf 154.4 / 80
p0 2622 ± 2.099
2750
2700
2650
2600
2550

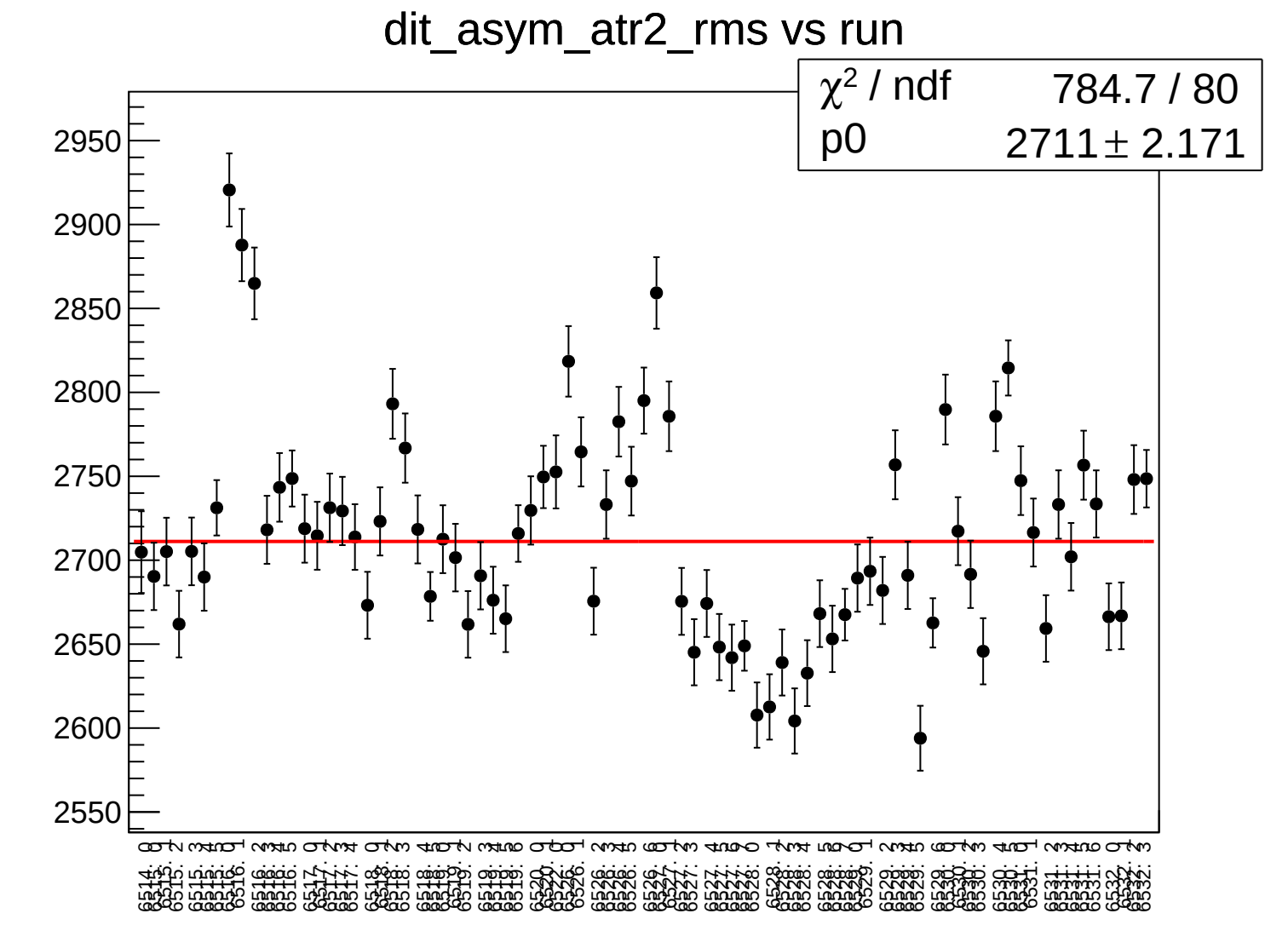

asym_atr2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 88.66 / 80
p0 8019 ± 9970
pull
Entries 81
Mean −27.61
Std Dev 0

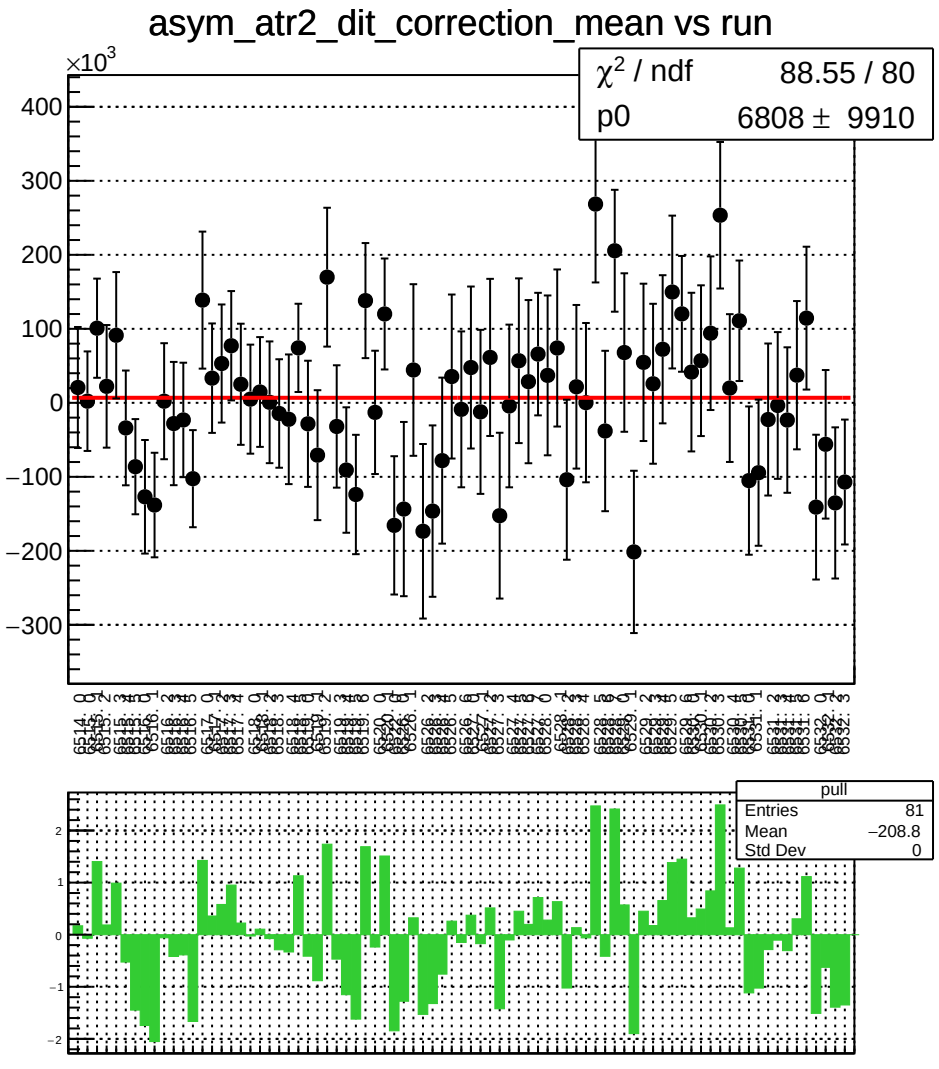

pull1D
Entries 81
Mean −0.01504
Std Dev 1.046

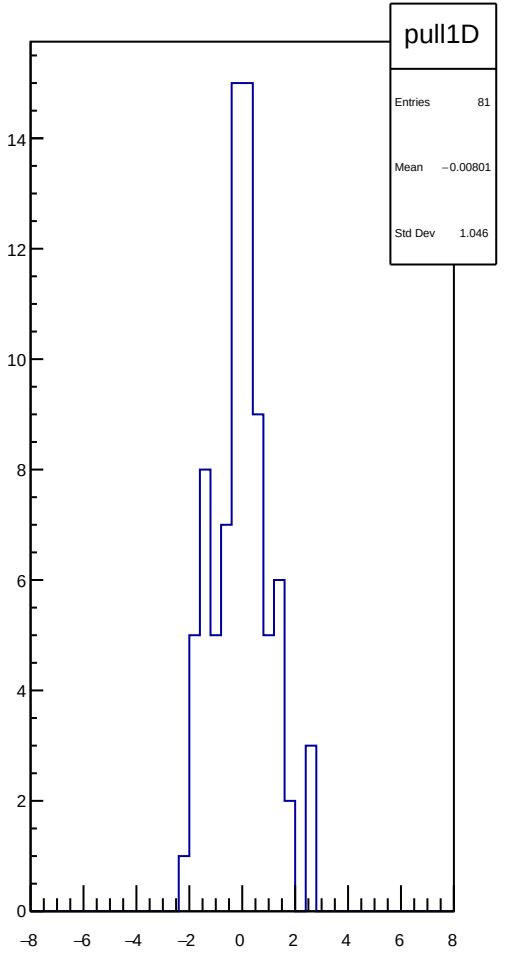

asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 3.188e+04 / 80
p0 8717 ± 7.05
12000
11000
10000
9000
8000
7000
6000

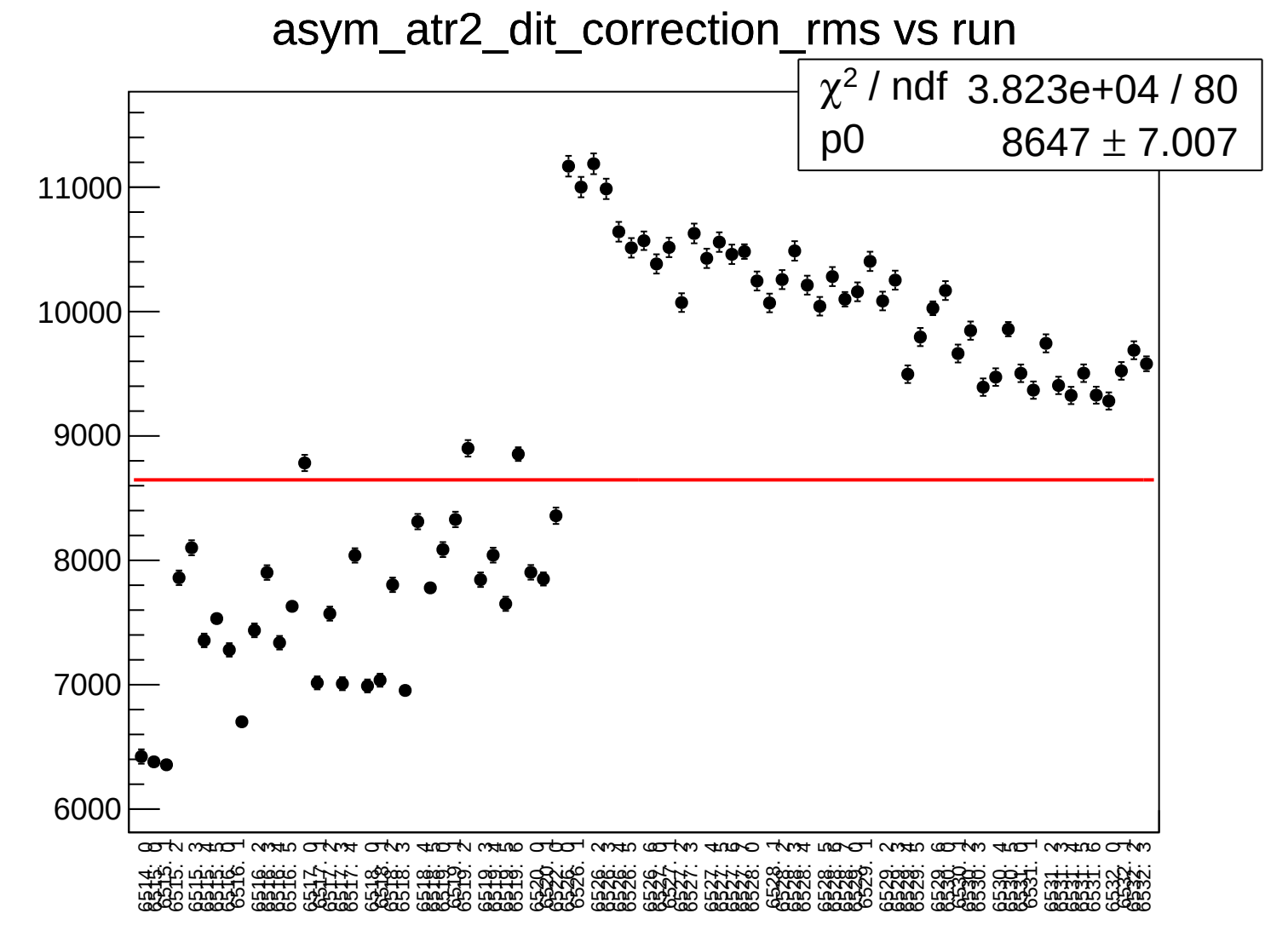

dit_asym_atr2_mean vs run
×10^3
χ² / ndf 64.9 / 80
p0 2791 ± 3070
100
50
0
−50
−100
pull
Entries 81
Mean −217.5
Std Dev 0
3
2
1
0
−1
−2

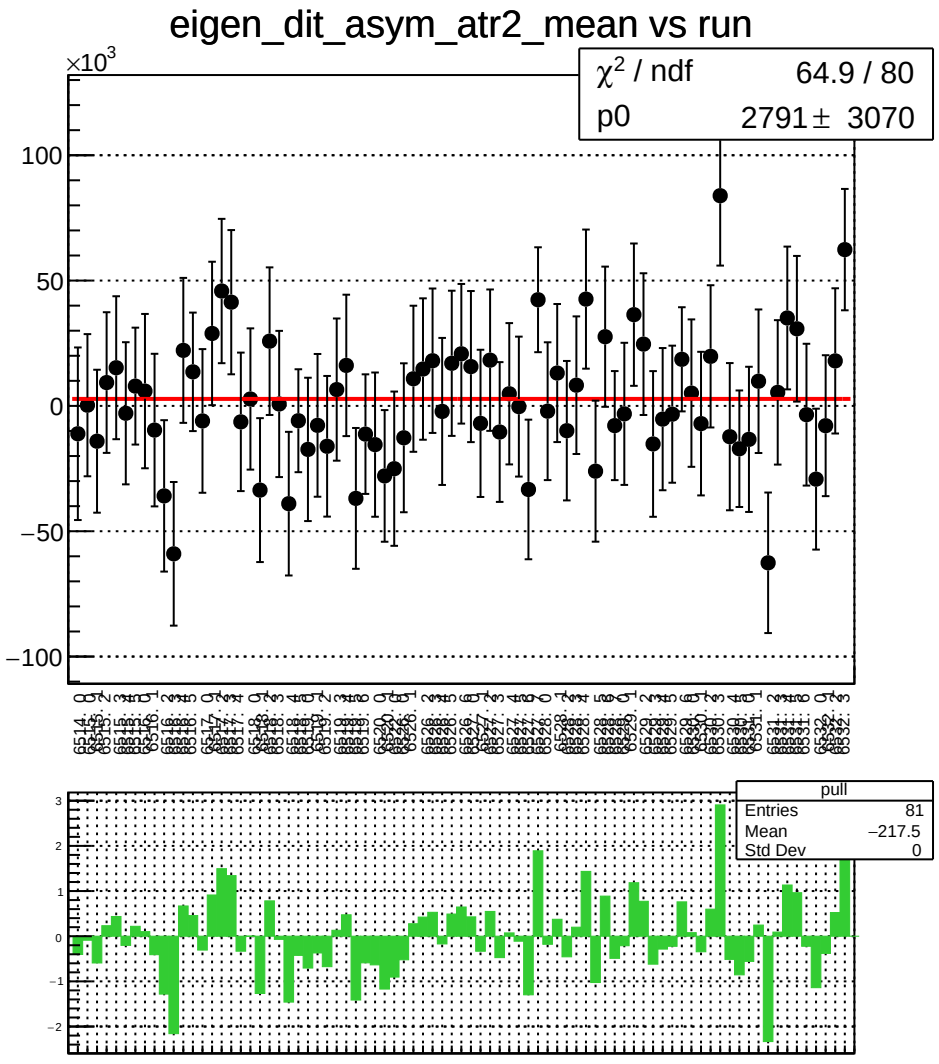

pull1D
Entries 81
Mean −0.01258
Std Dev 0.895
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

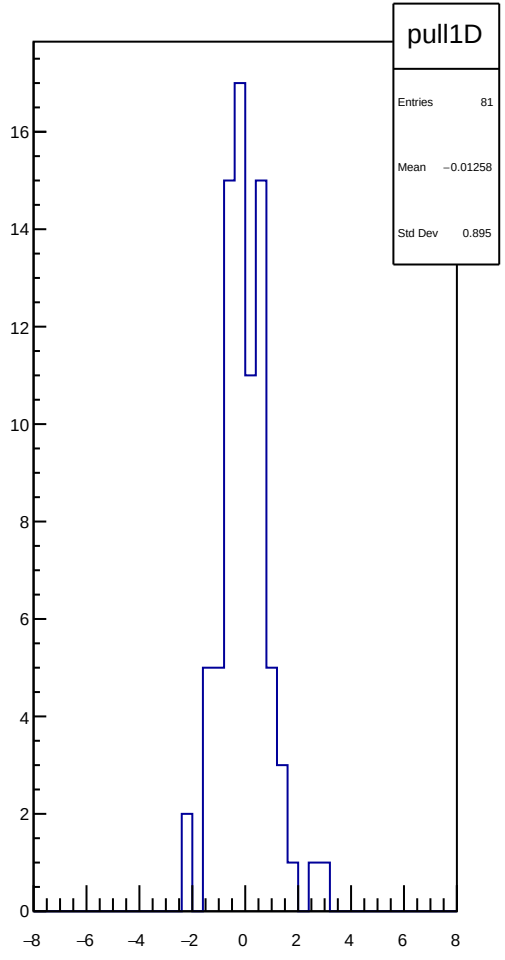

dit_asym_atr2_rms vs run
χ² / ndf 784.7 / 80
p0 2711 ± 2.171
2950
2900
2850
2800
2750
2700
2650
2600
2550

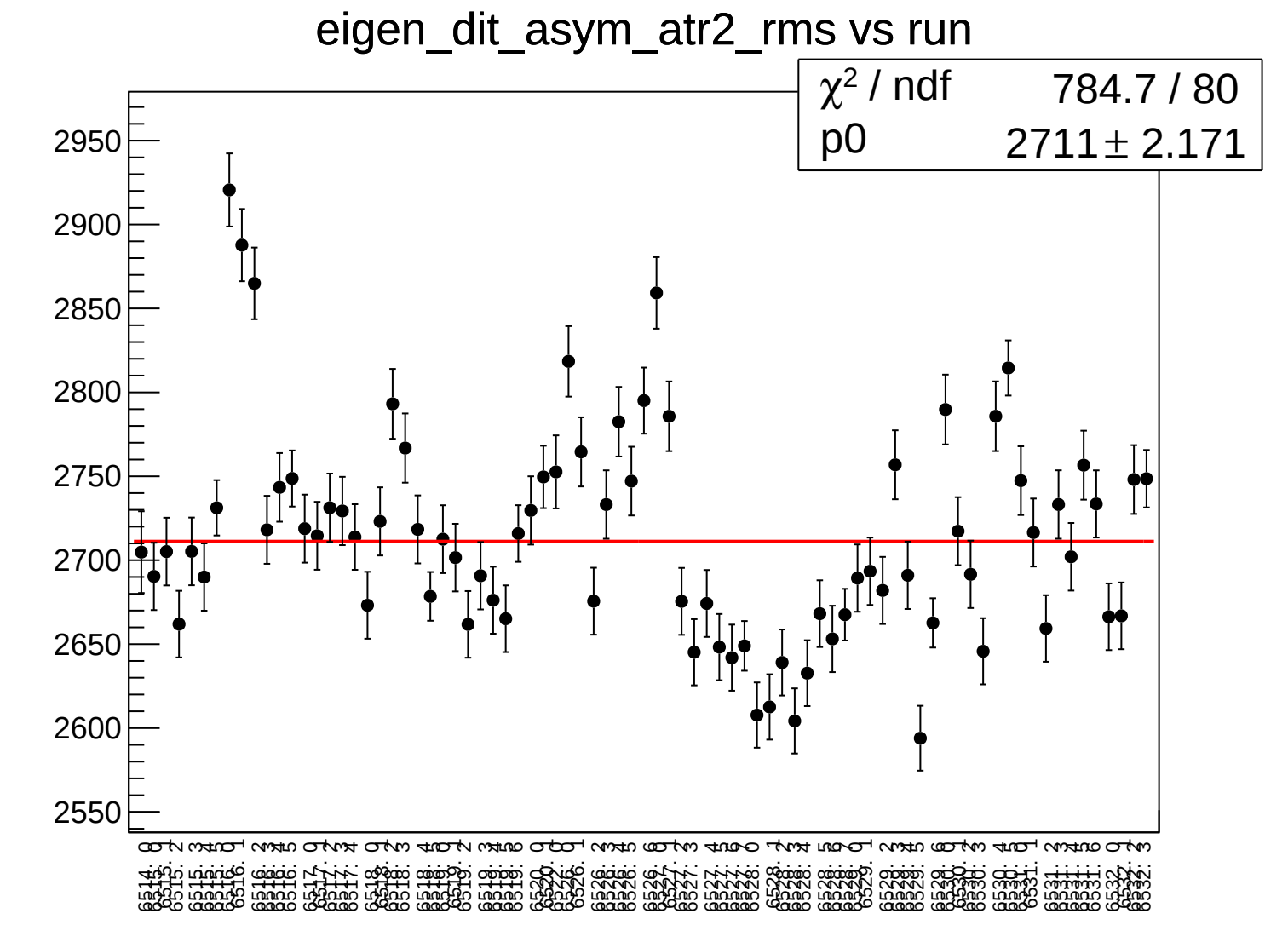

asym_atr2_dit_correction_mean vs run
×10^3
χ² / ndf 88.55 / 80
p0 6808 ± 9910
pull
Entries 81
Mean −208.8
Std Dev 0

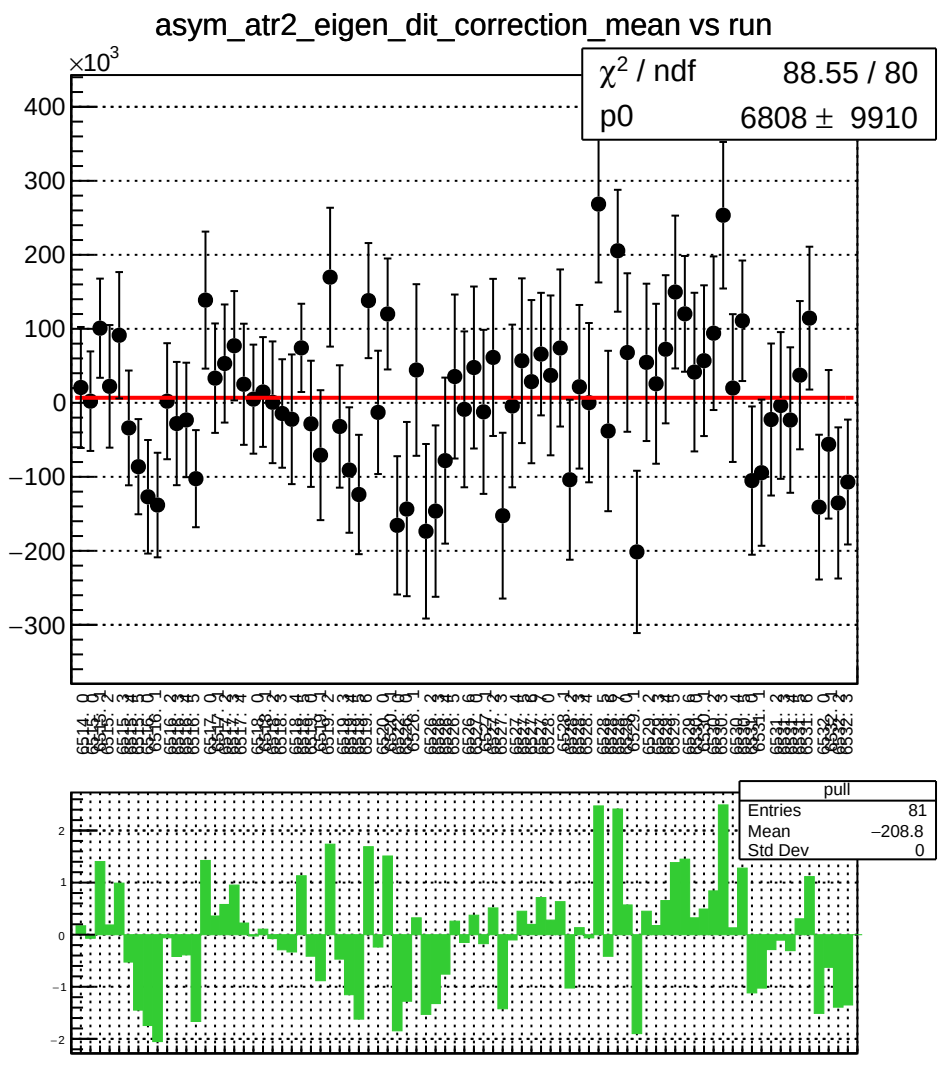

pull1D
Entries 81
Mean −0.00801
Std Dev 1.046

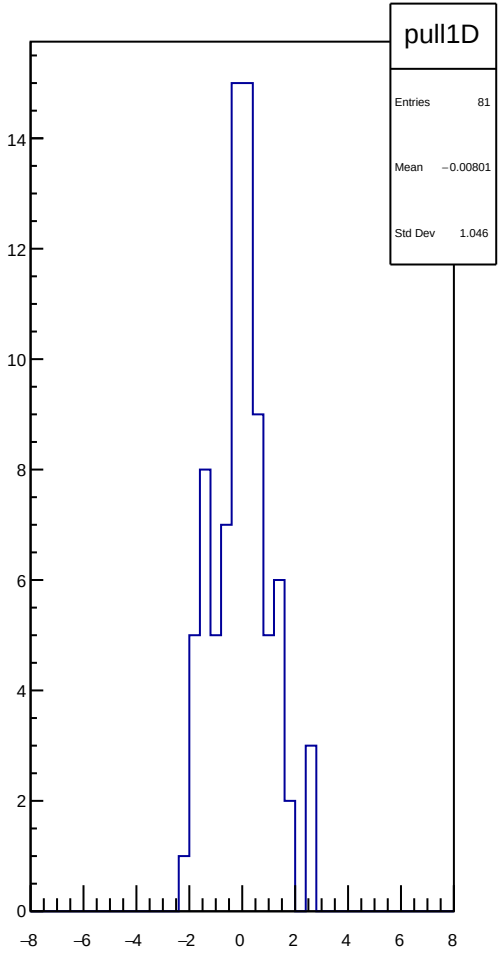

asym_atr2_dit_correction_rms vs run
χ² / ndf 3.823e+04 / 80
p0 8647 ± 7.007
11000
10000
9000
8000
7000
6000

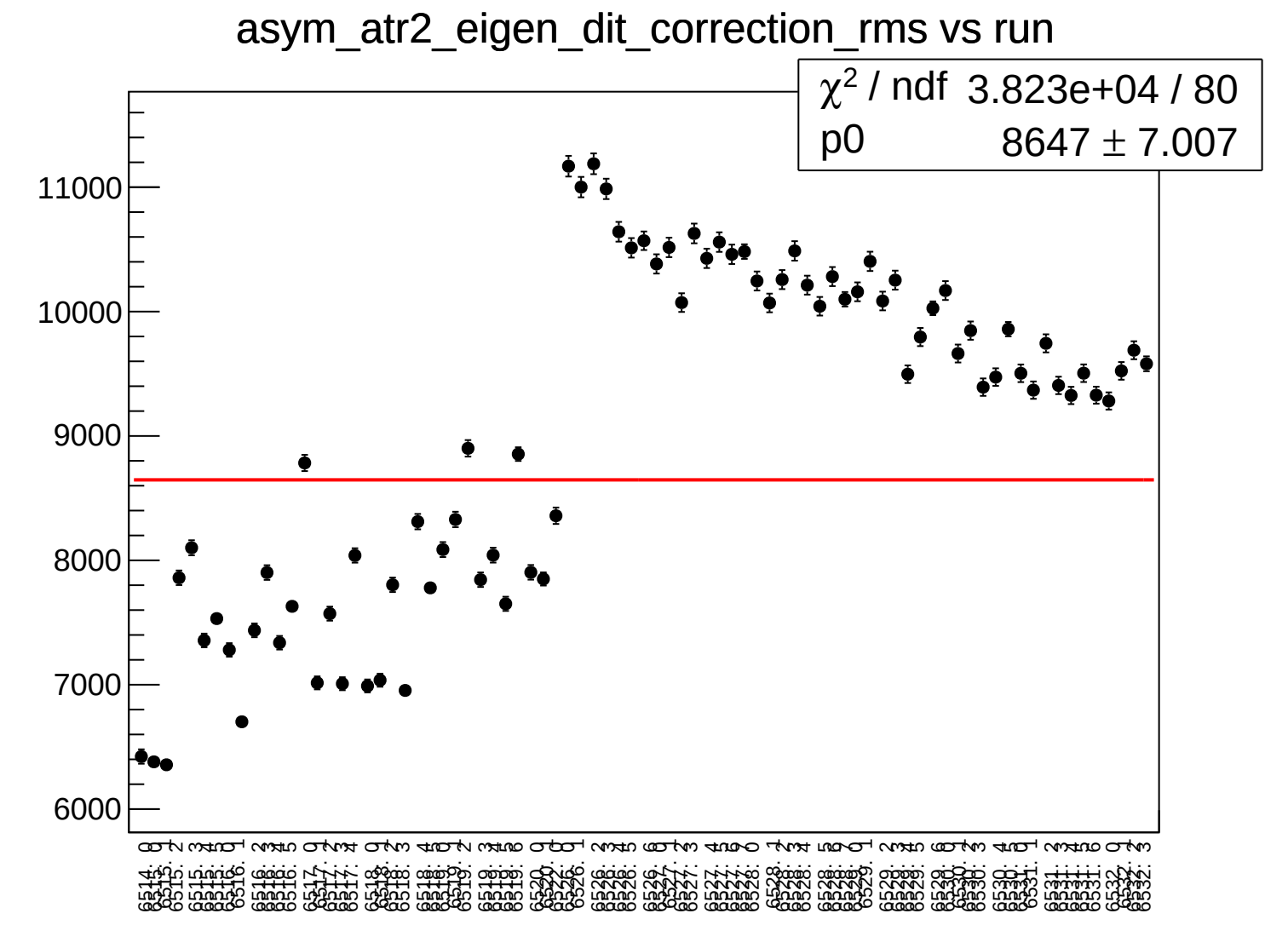

eigen_dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 64.9 / 80
p0 2791 ± 3070
100
50
0
−50
−100
pull
Entries 81
Mean −217.5
Std Dev 0
3
2
1
0
−1
−2

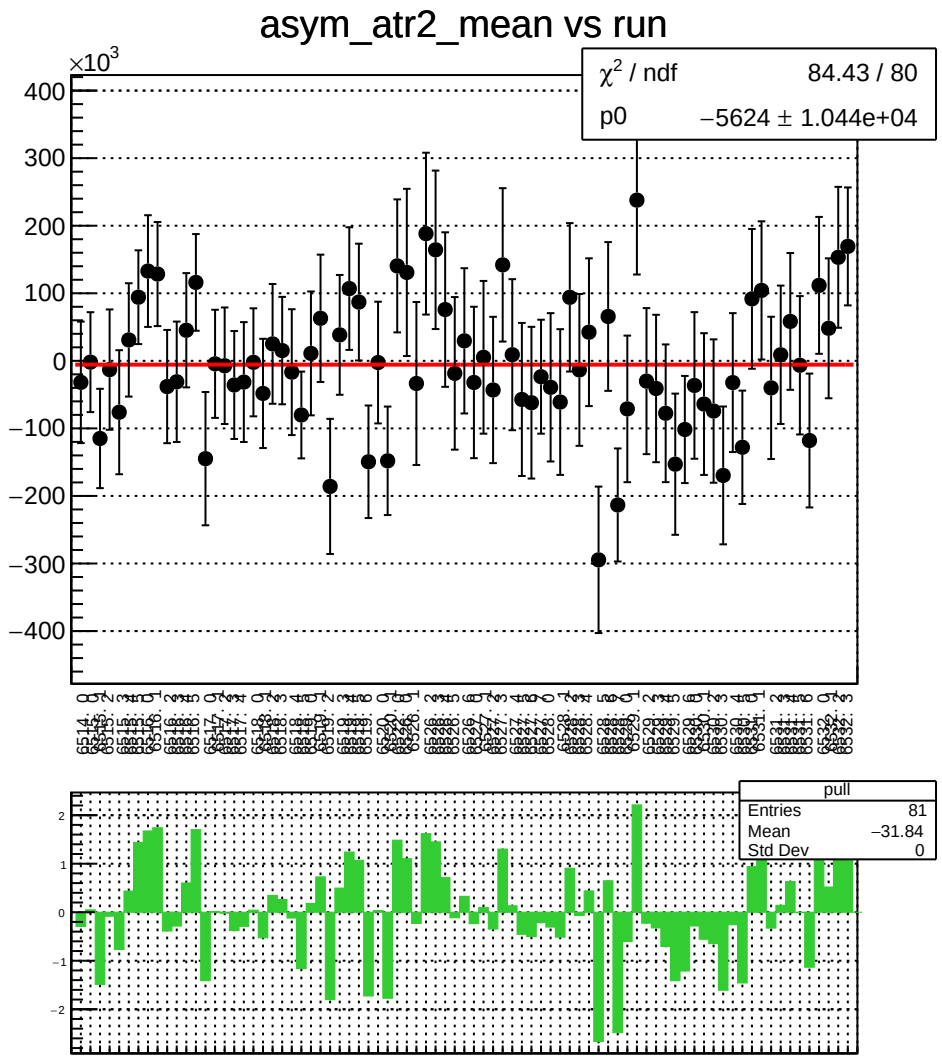

pull1D
Entries 81
Mean −0.01258
Std Dev 0.895
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

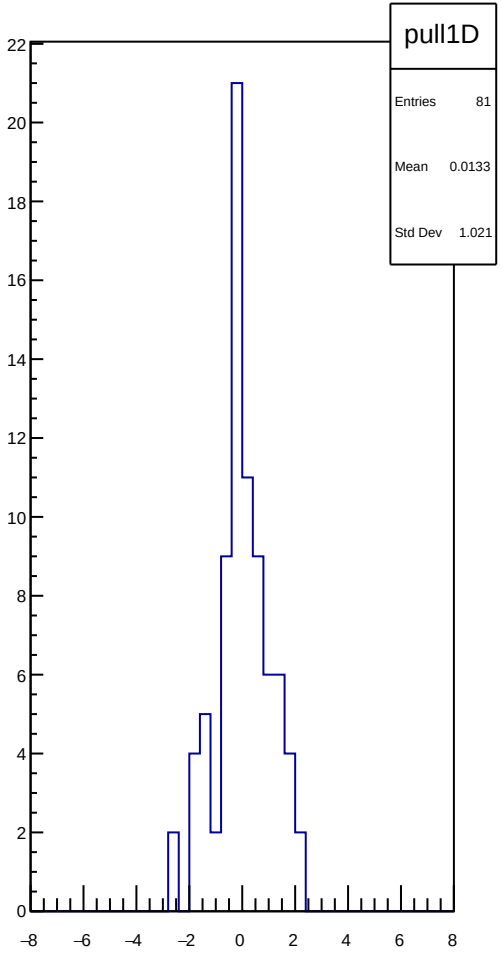

eigen_dit_asym_atr2_rms vs run
χ² / ndf 784.7 / 80
p0 2711 ± 2.171
2950
2900
2850
2800
2750
2700
2650
2600
2550

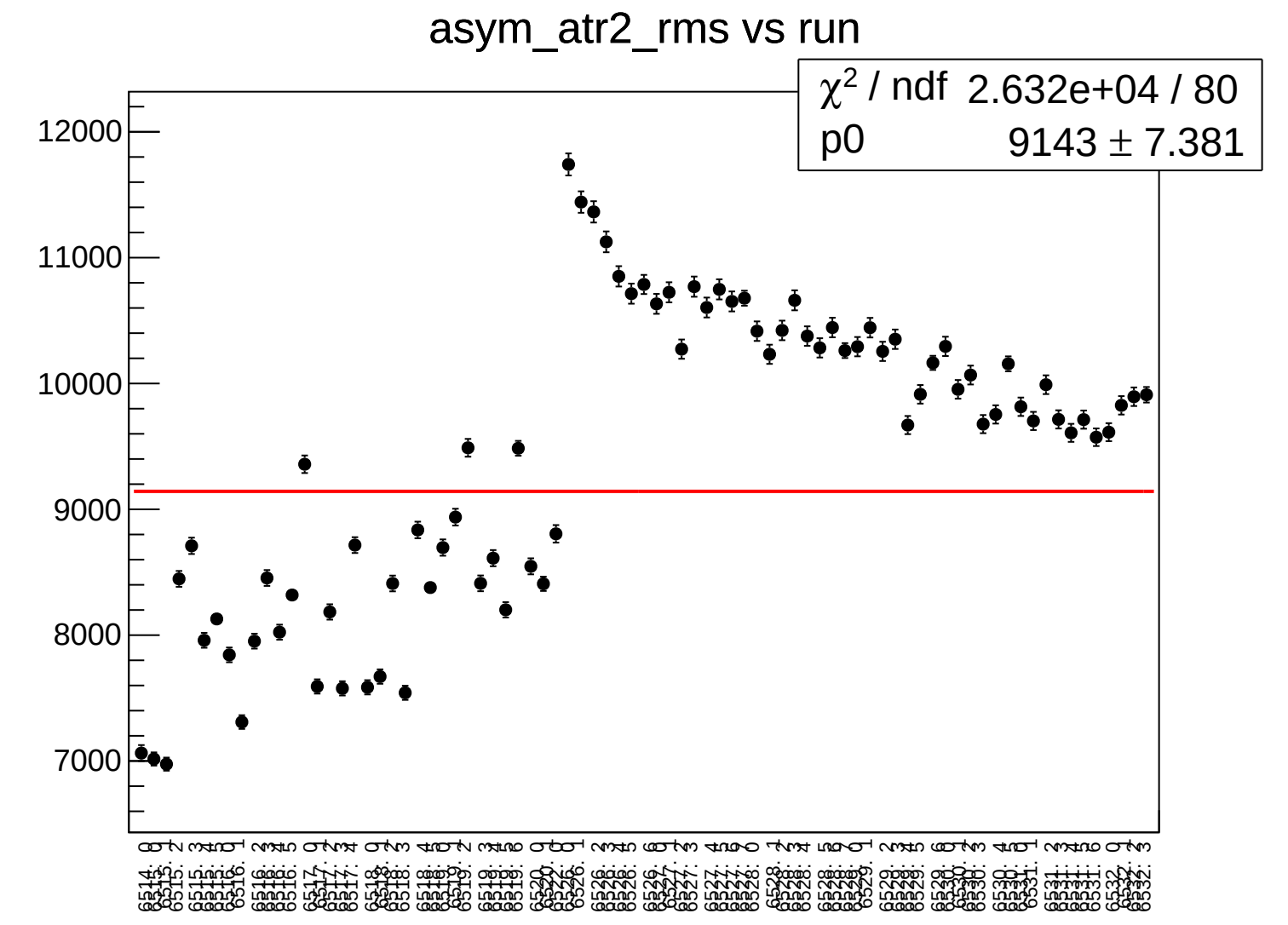

asym_atr2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 88.55 / 80
p0 6808 ± 9910
pull
Entries 81
Mean −208.8
Std Dev 0

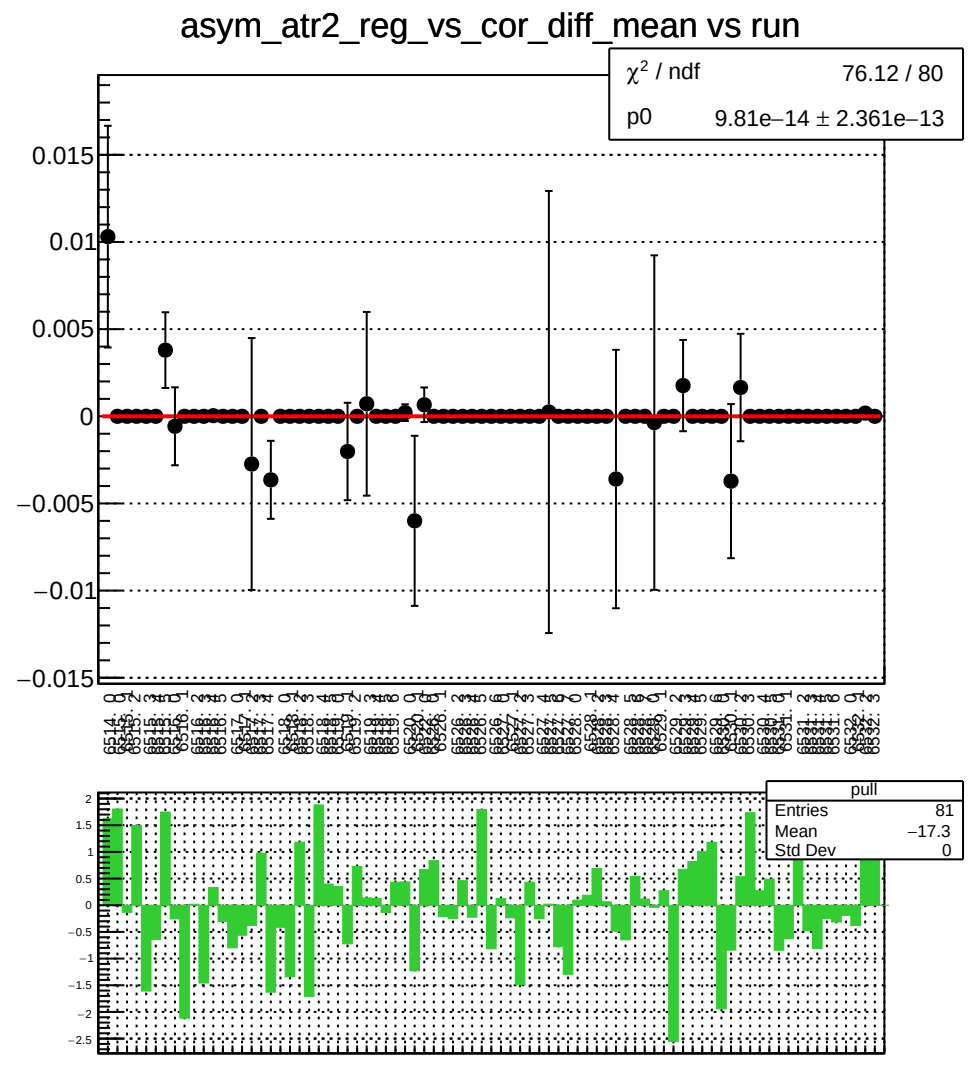

pull1D
Entries 81
Mean −0.00801
Std Dev 1.046

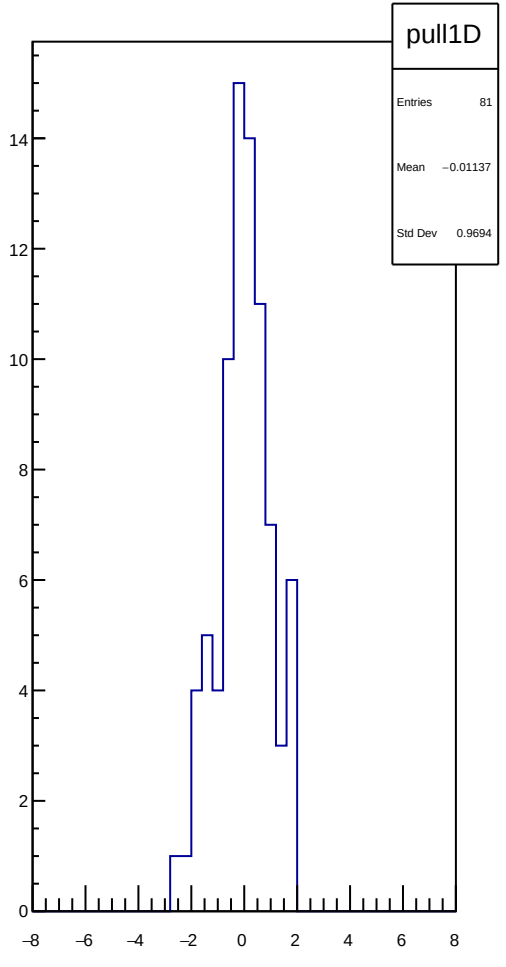

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 3.823e+04 / 80
p0 8647 ± 7.007
11000
10000
9000
8000
7000
6000

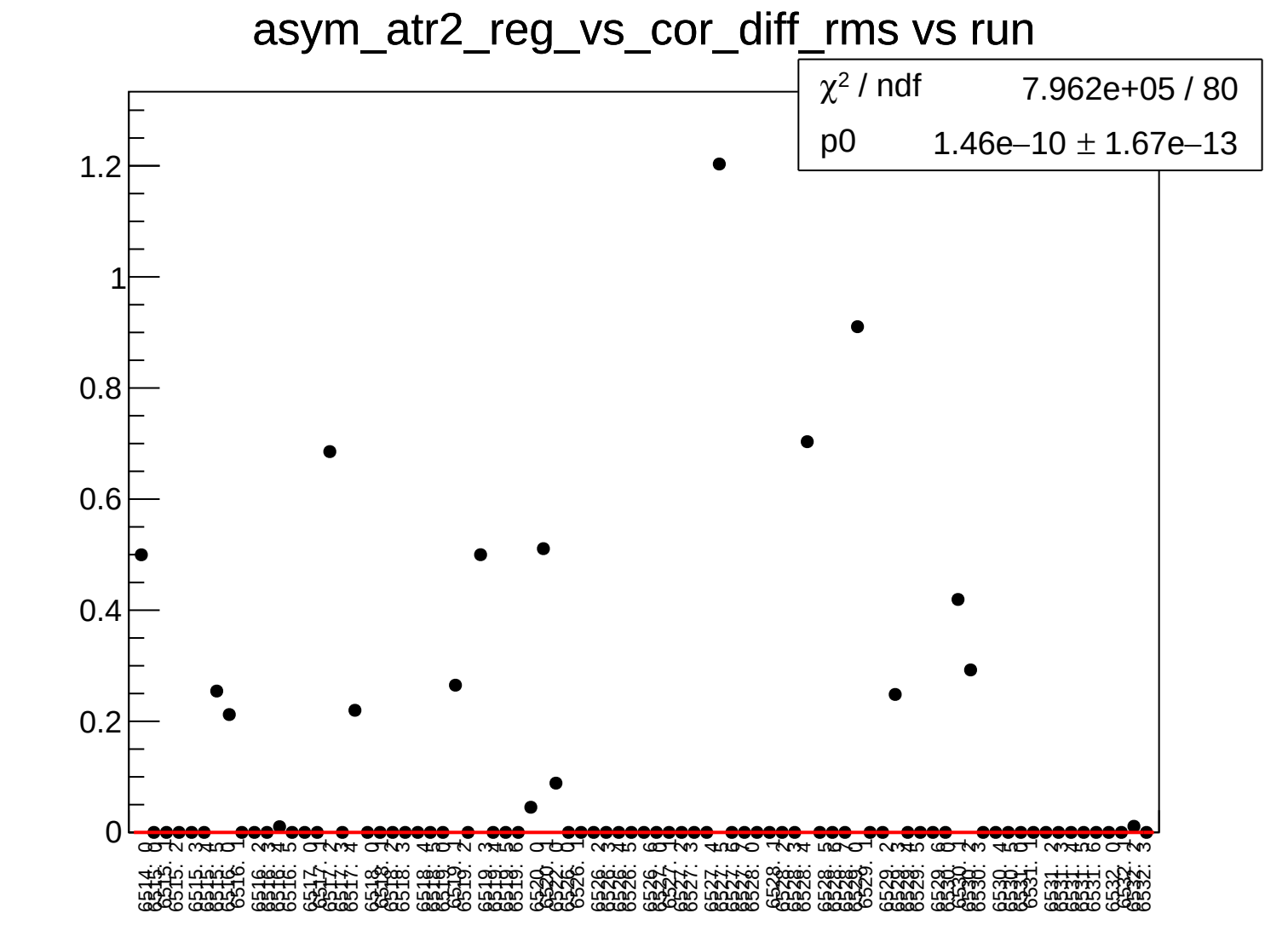

asym_atr2_mean vs run
×10^3
400
300
200
100
0
−100
−200
−300
−400
χ² / ndf 84.43 / 80
p0 −5624 ± 1.044e+04
pull
Entries 81
Mean −31.84
Std Dev 0
2
1
0
−1
−2

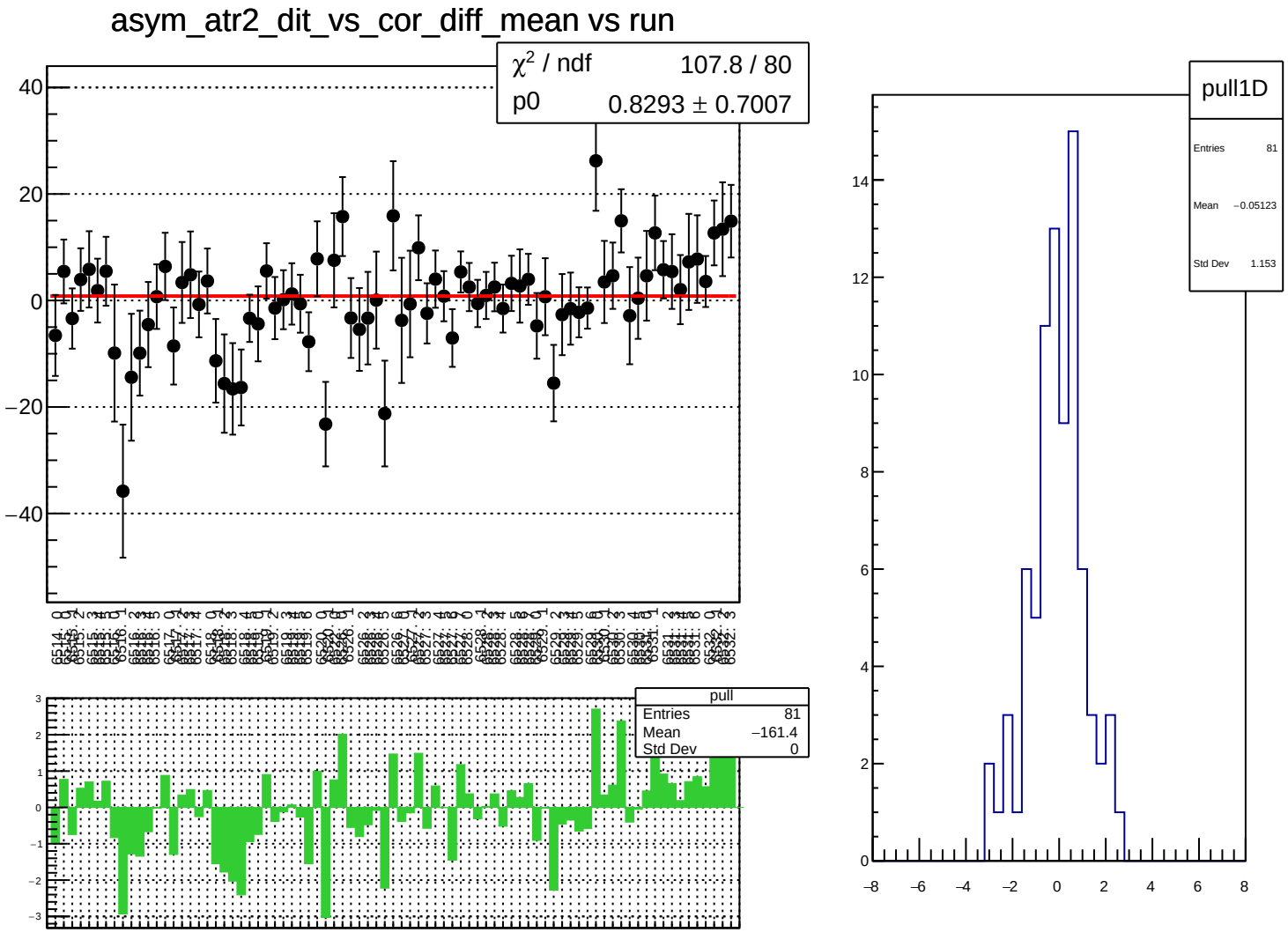

pull1D
Entries 81
Mean 0.0133
Std Dev 1.021
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

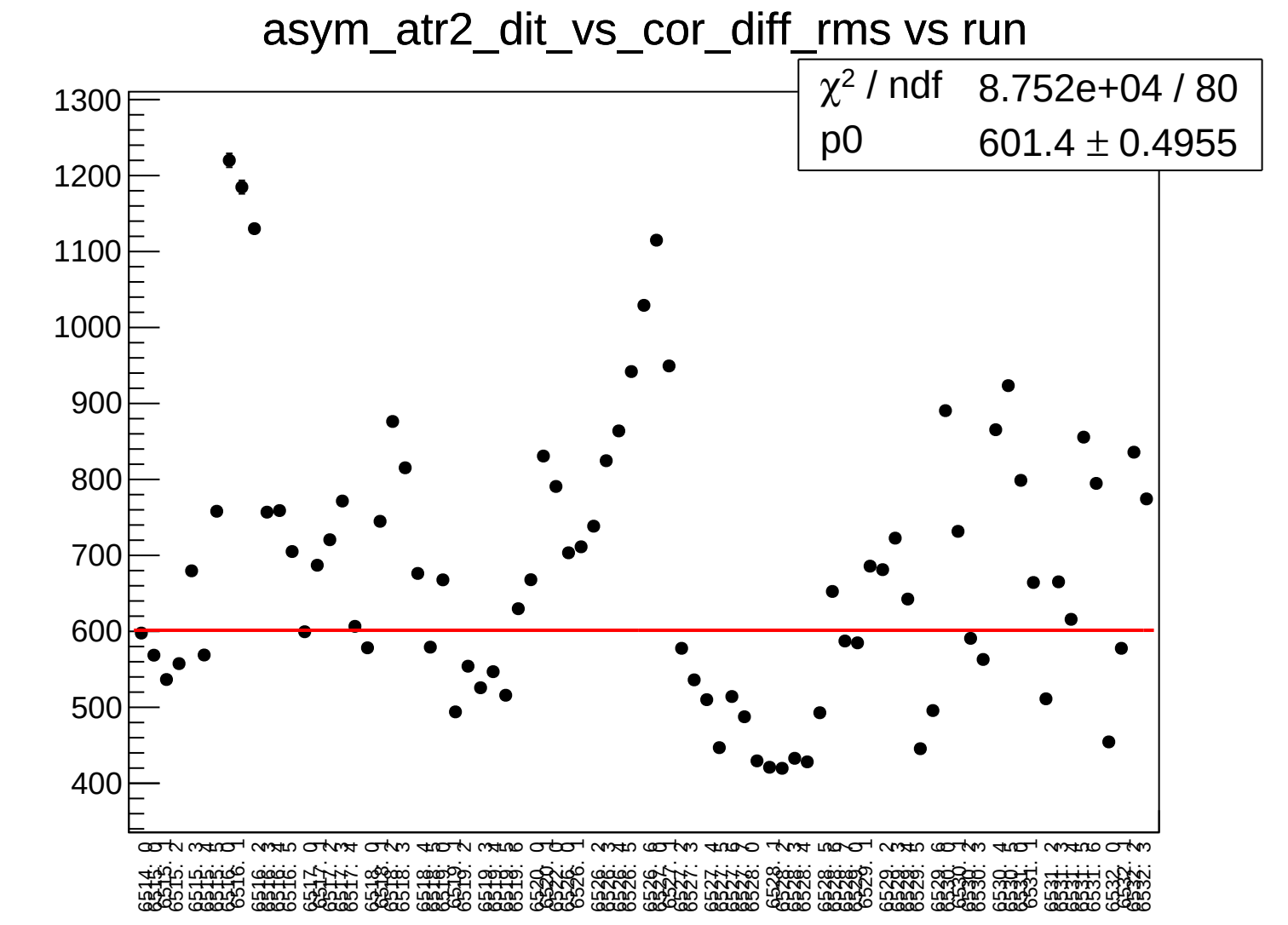

asym_atr2_rms vs run
χ² / ndf 2.632e+04 / 80
p0 9143 ± 7.381
12000
11000
10000
9000
8000
7000

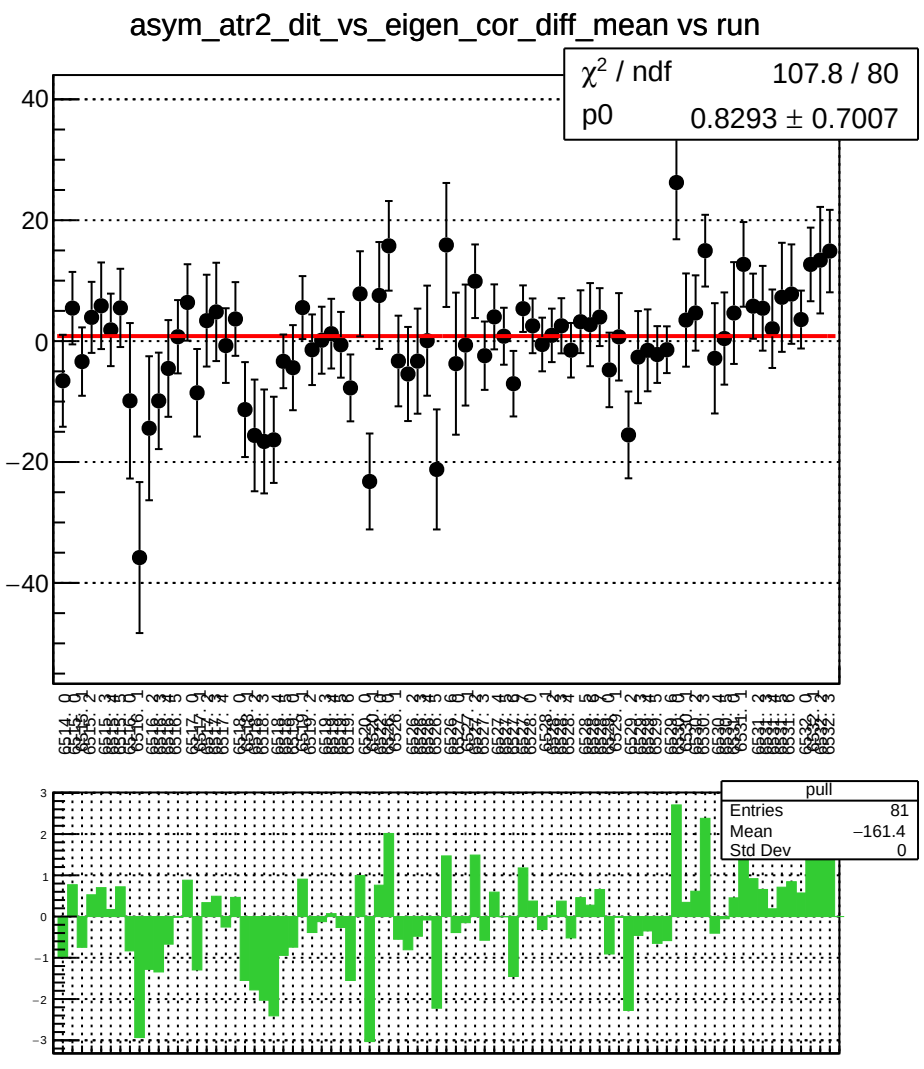

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 76.12 / 80
p0 9.81e−14 ± 2.361e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 81
Mean −17.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

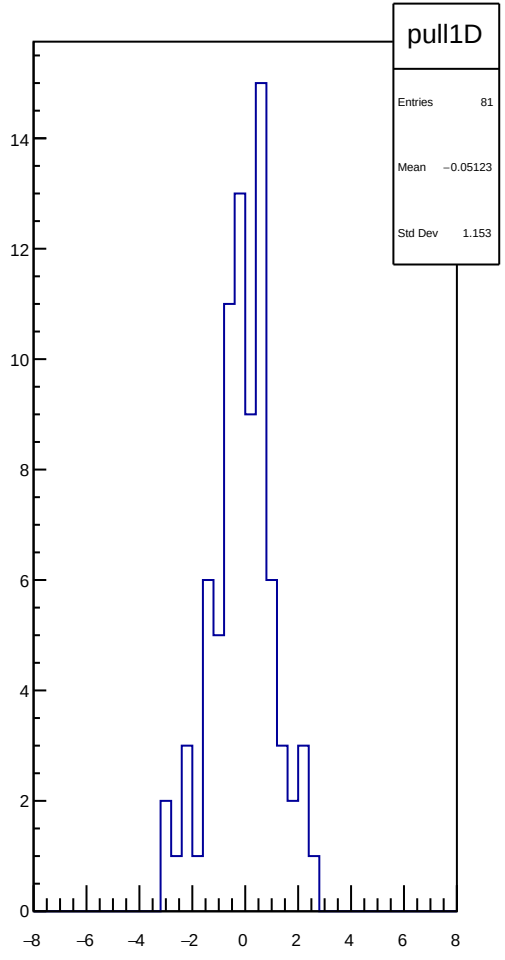

pull1D
Entries 81
Mean −0.01137
Std Dev 0.9694
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

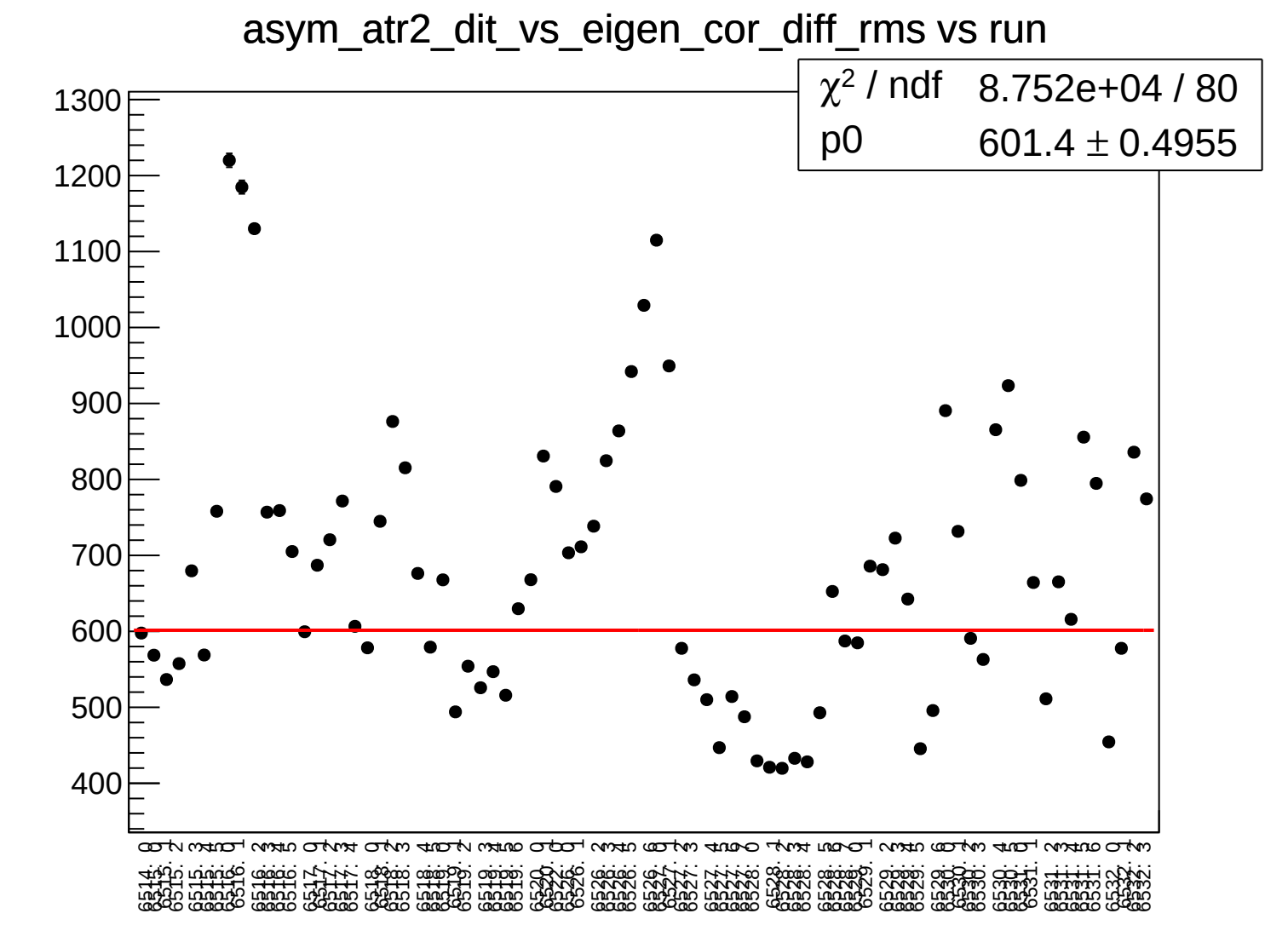

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 7.962e+05 / 80
p0 1.46e−10 ± 1.67e−13
1.2
1
0.8
0.6
0.4
0.2
0

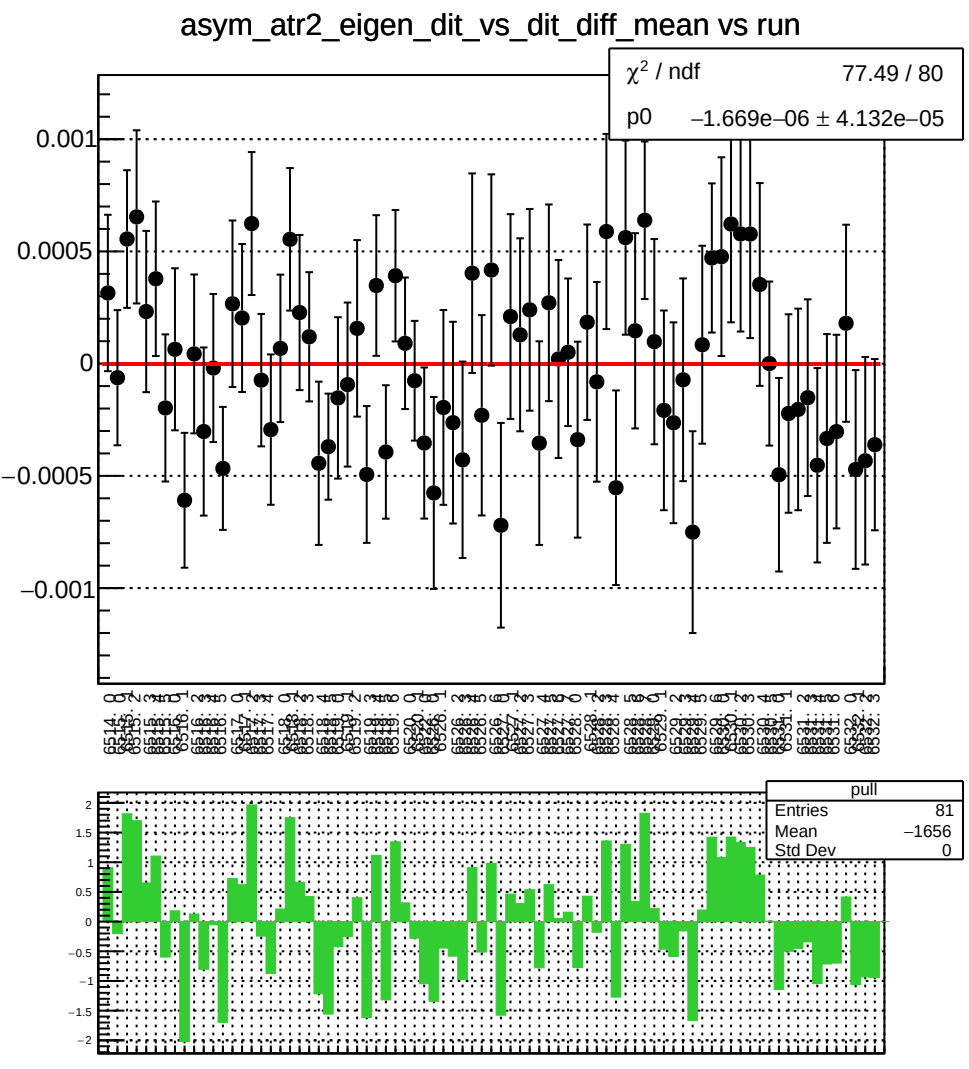

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 107.8 / 80
p0 0.8293 ± 0.7007
pull
Entries 81
Mean −161.4
Std Dev 0
pull1D
Entries 81
Mean −0.05123
Std Dev 1.153

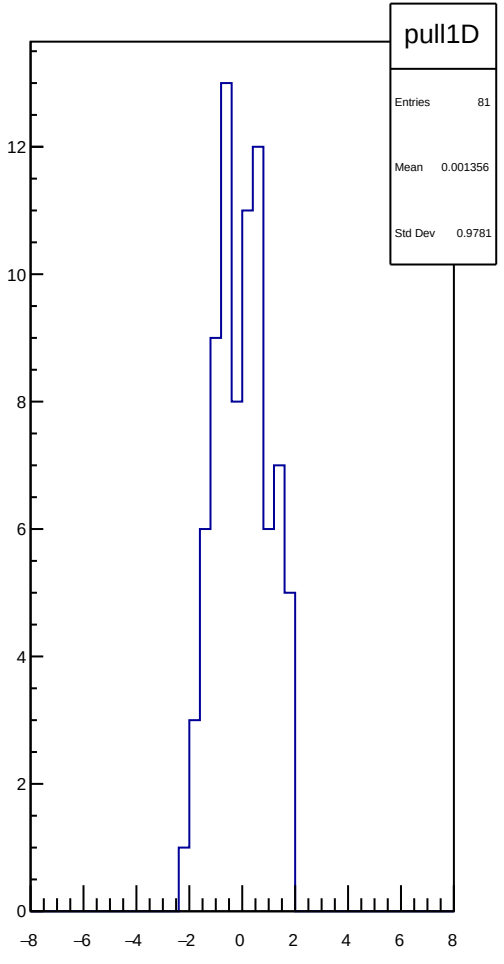

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 8.752e+04 / 80
p0 601.4 ± 0.4955
1300
1200
1100
1000
900
800
700
600
500
400

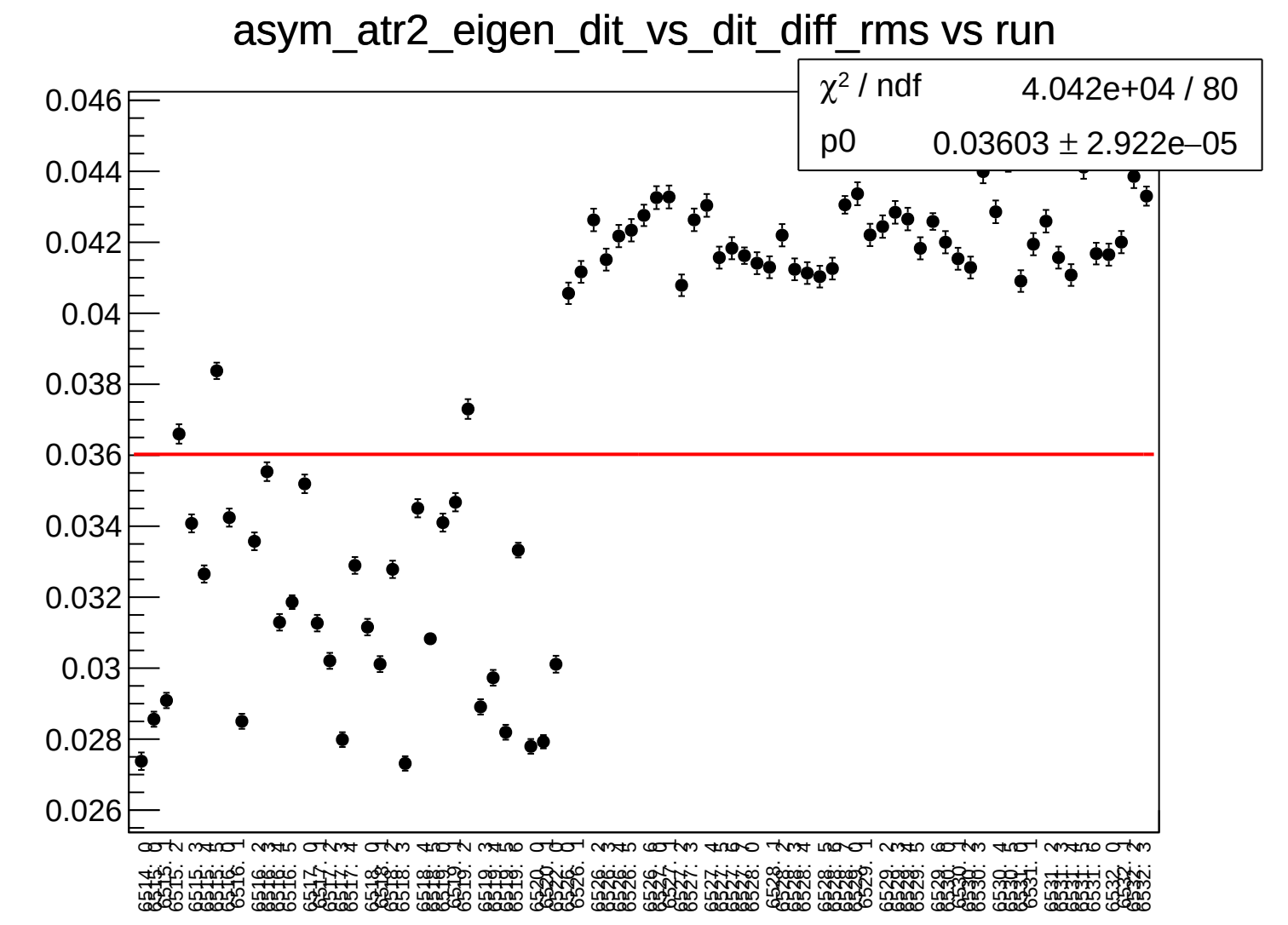

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.8 / 80
p0 0.8293 ± 0.7007
pull
Entries 81
Mean −161.4
Std Dev 0

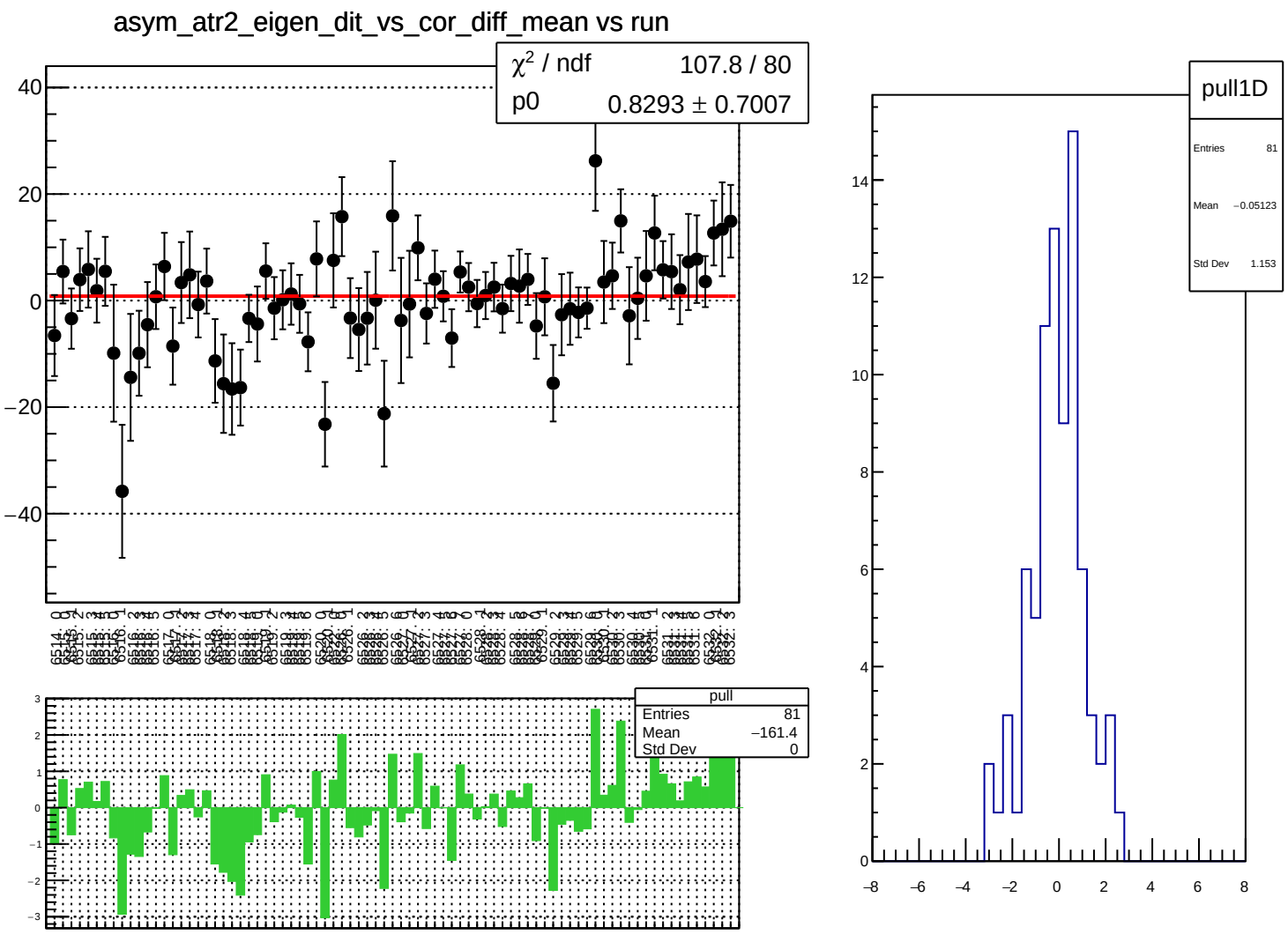

pull1D
Entries 81
Mean −0.05123
Std Dev 1.153

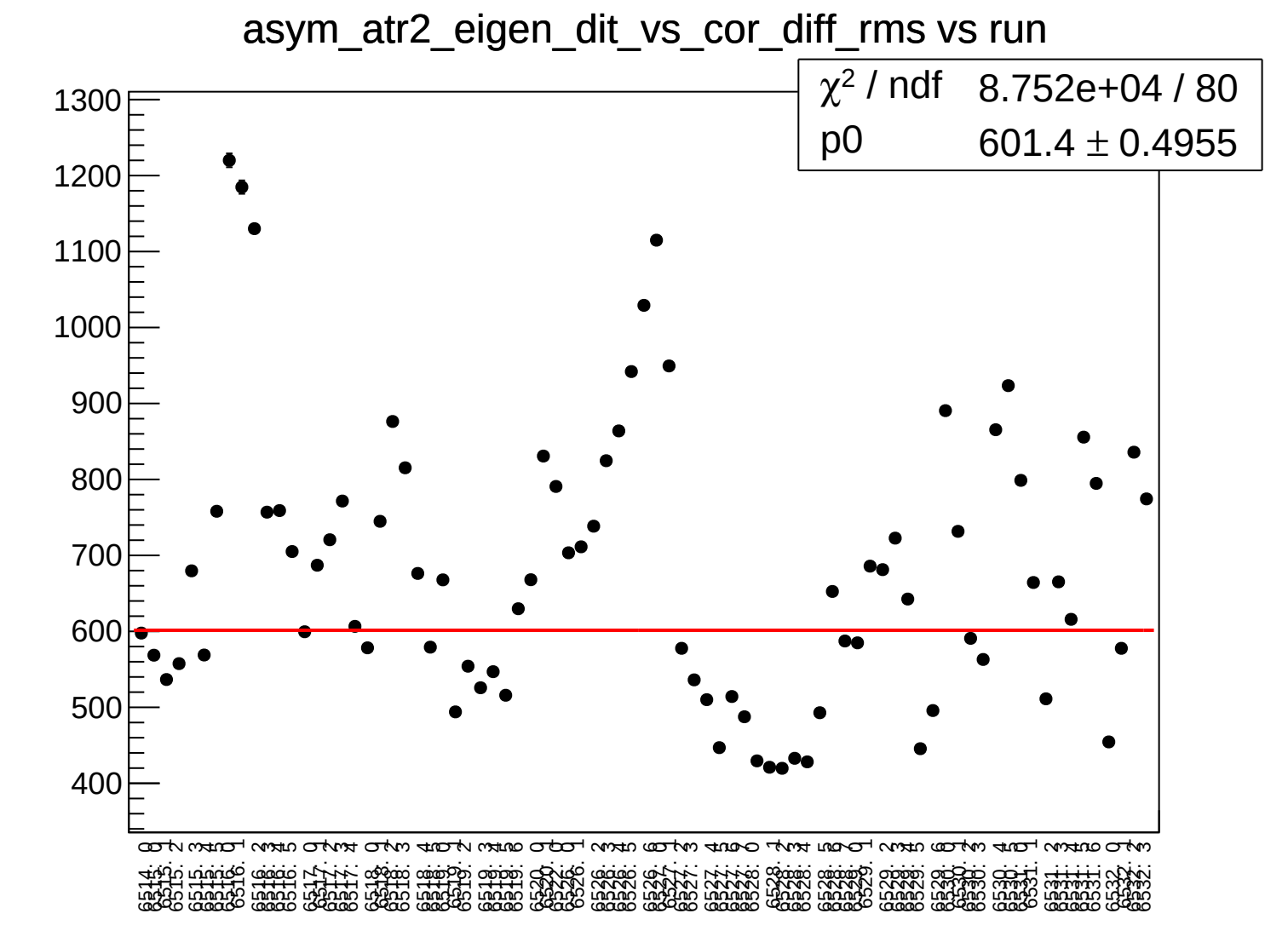

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.752e+04 / 80
p0 601.4 ± 0.4955
1300
1200
1100
1000
900
800
700
600
500
400

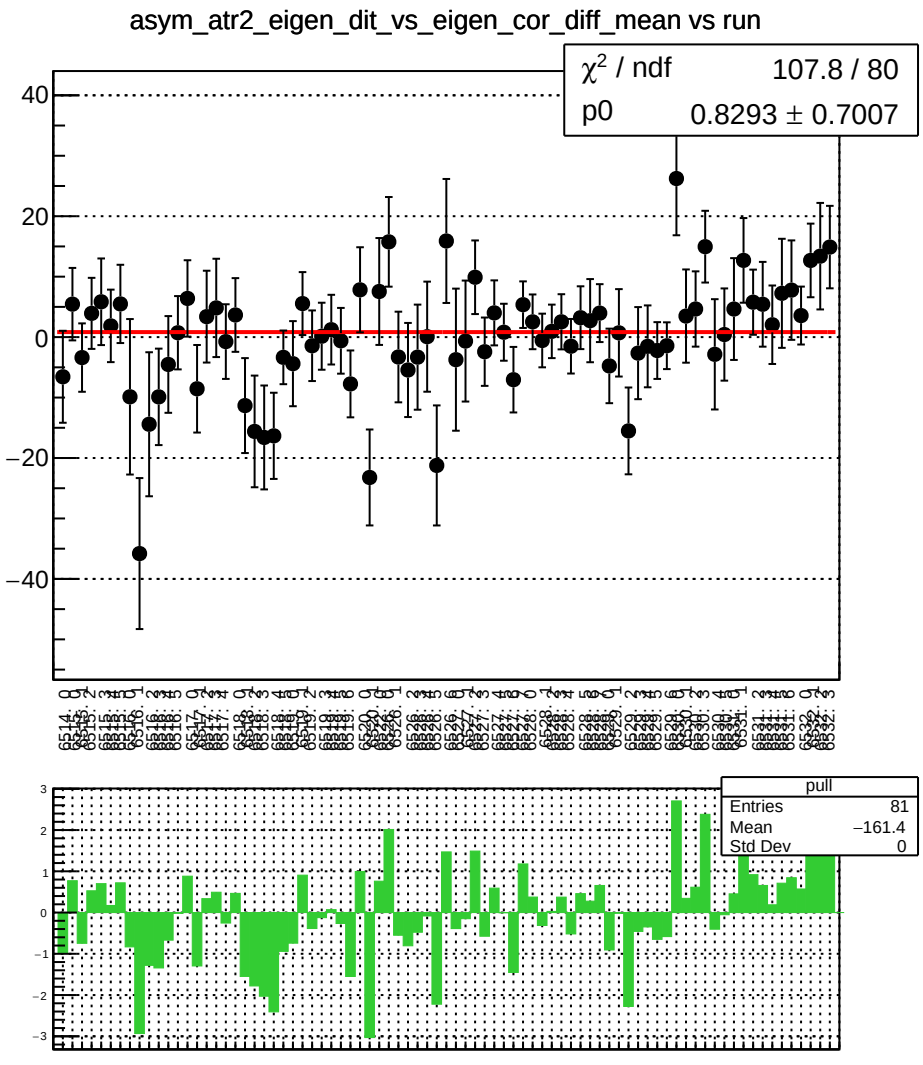

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 77.49 / 80
p0 −1.669e−06 ± 4.132e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 81
Mean −1656
Std Dev 0

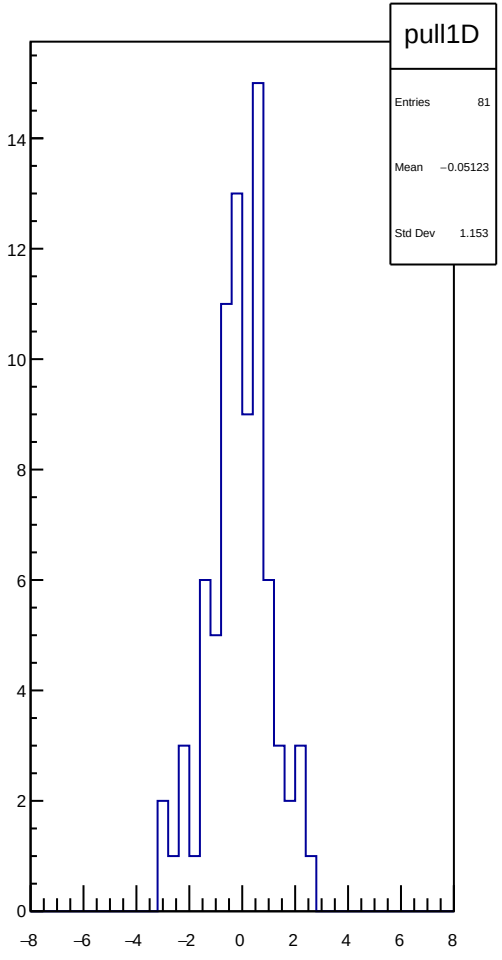

pull1D
Entries 81
Mean 0.001356
Std Dev 0.9781
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

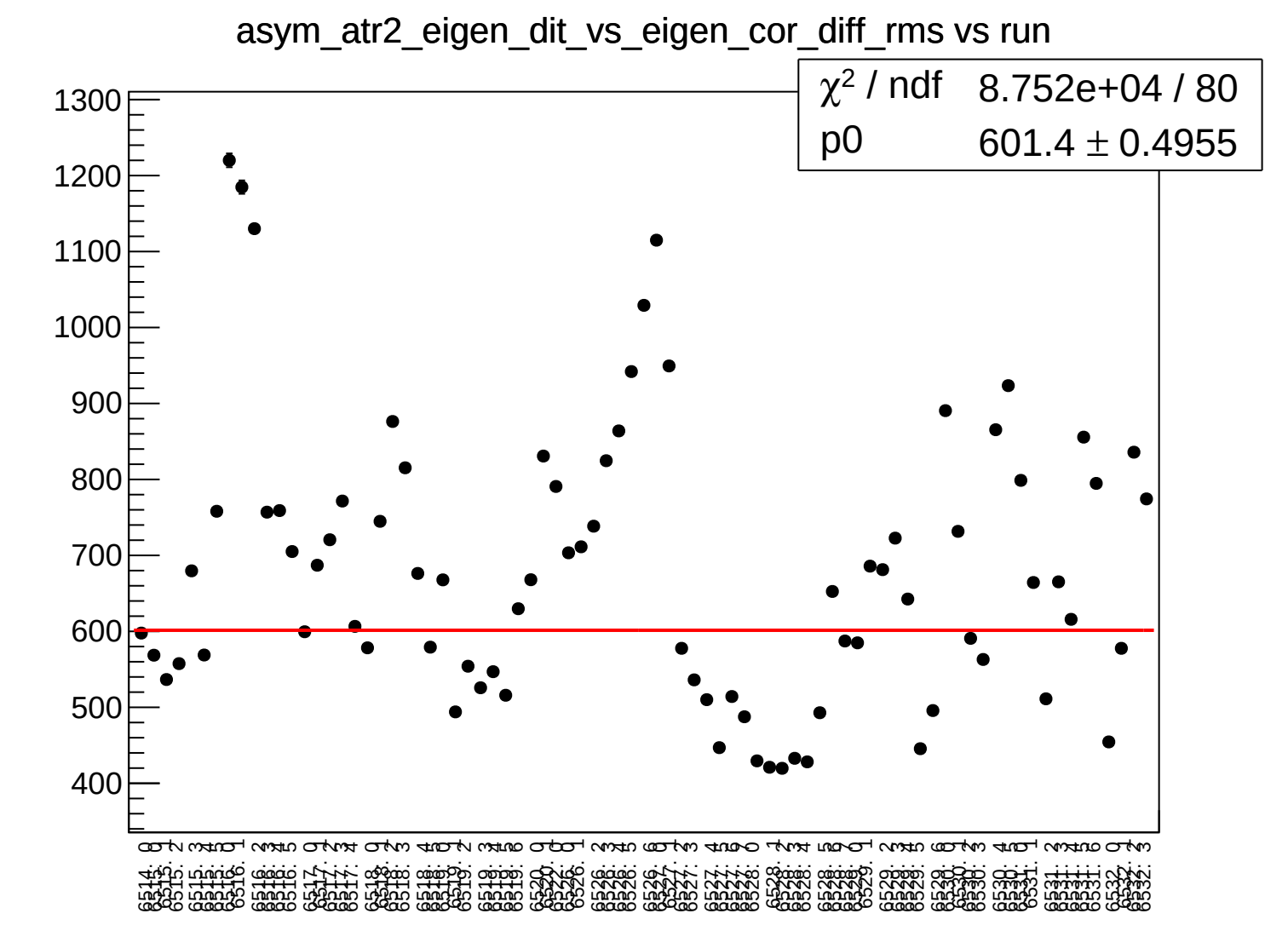

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.042e+04 / 80
p0 0.03603 ± 2.922e−05
0.046
0.044
0.042
0.04
0.038
0.036
0.034
0.032
0.03
0.028
0.026

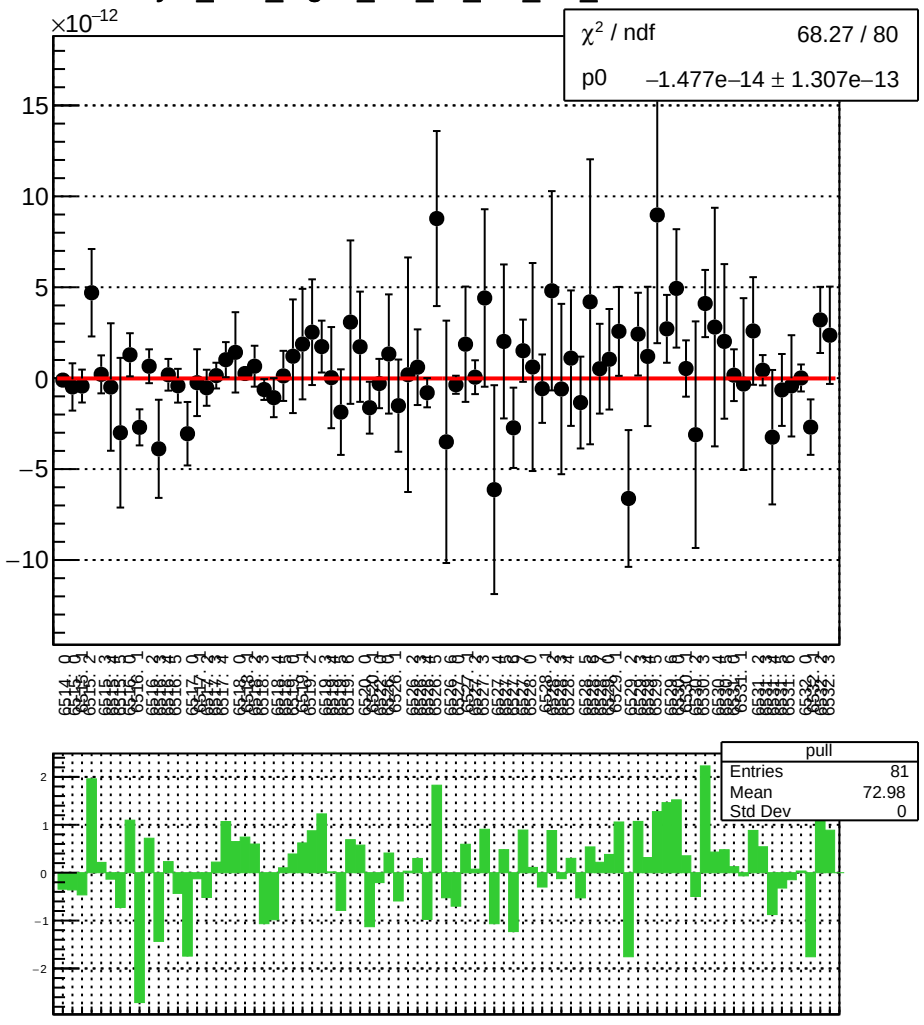

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 107.8 / 80
p0 0.8293 ± 0.7007
pull
Entries 81
Mean −161.4
Std Dev 0
pull1D
Entries 81
Mean −0.05123
Std Dev 1.153

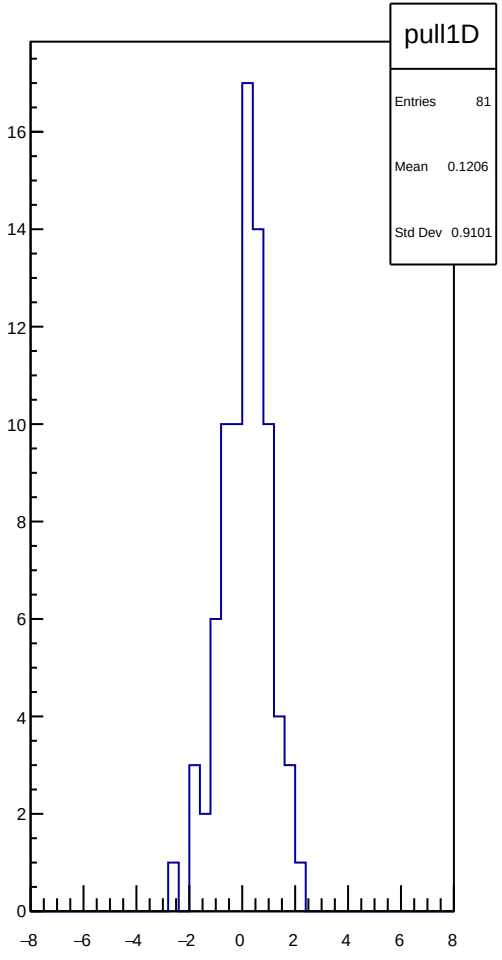

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.752e+04 / 80
p0 601.4 ± 0.4955
1300
1200
1100
1000
900
800
700
600
500
400

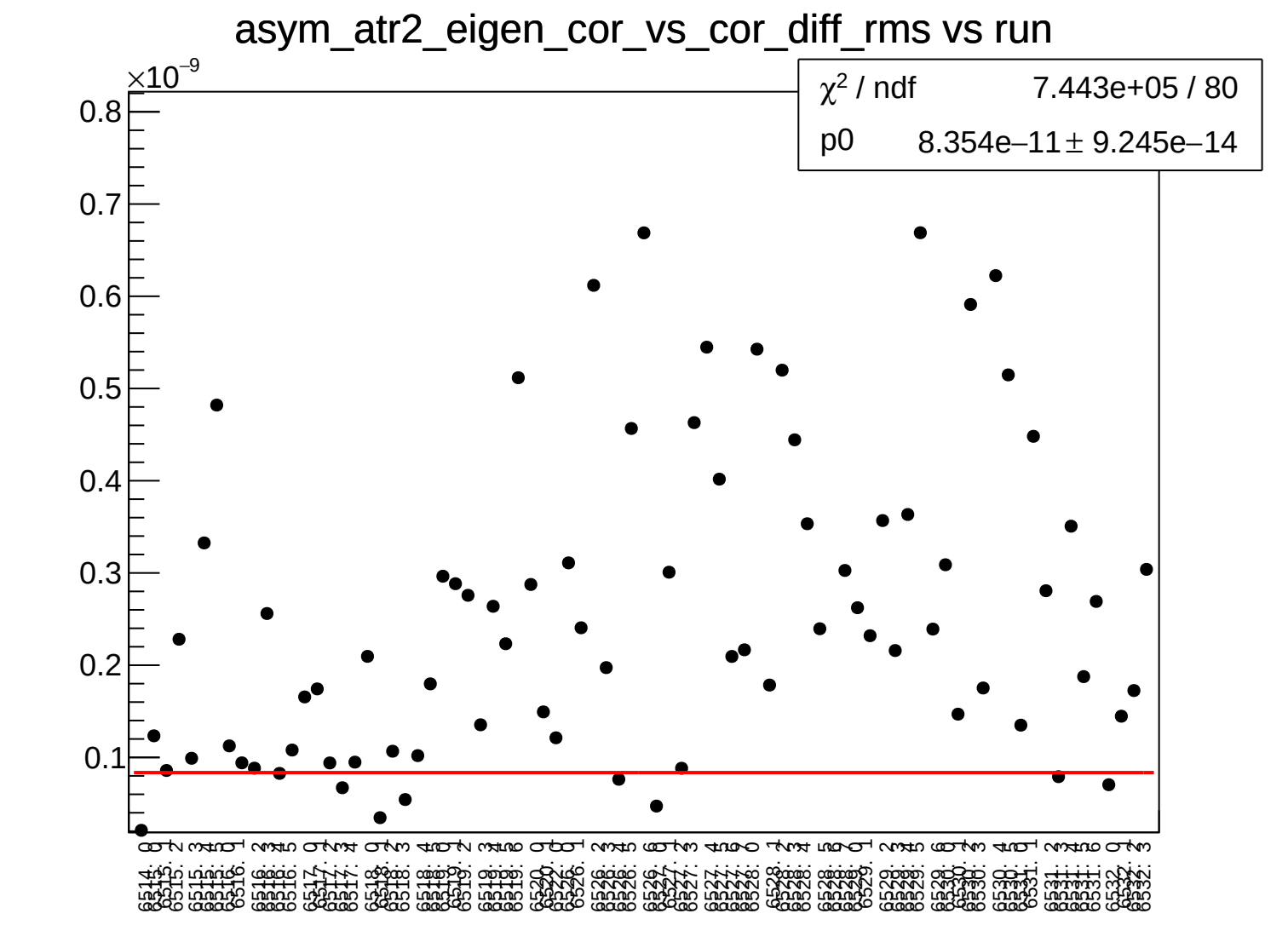

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.8 / 80
p0 0.8293 ± 0.7007
pull
Entries 81
Mean −161.4
Std Dev 0

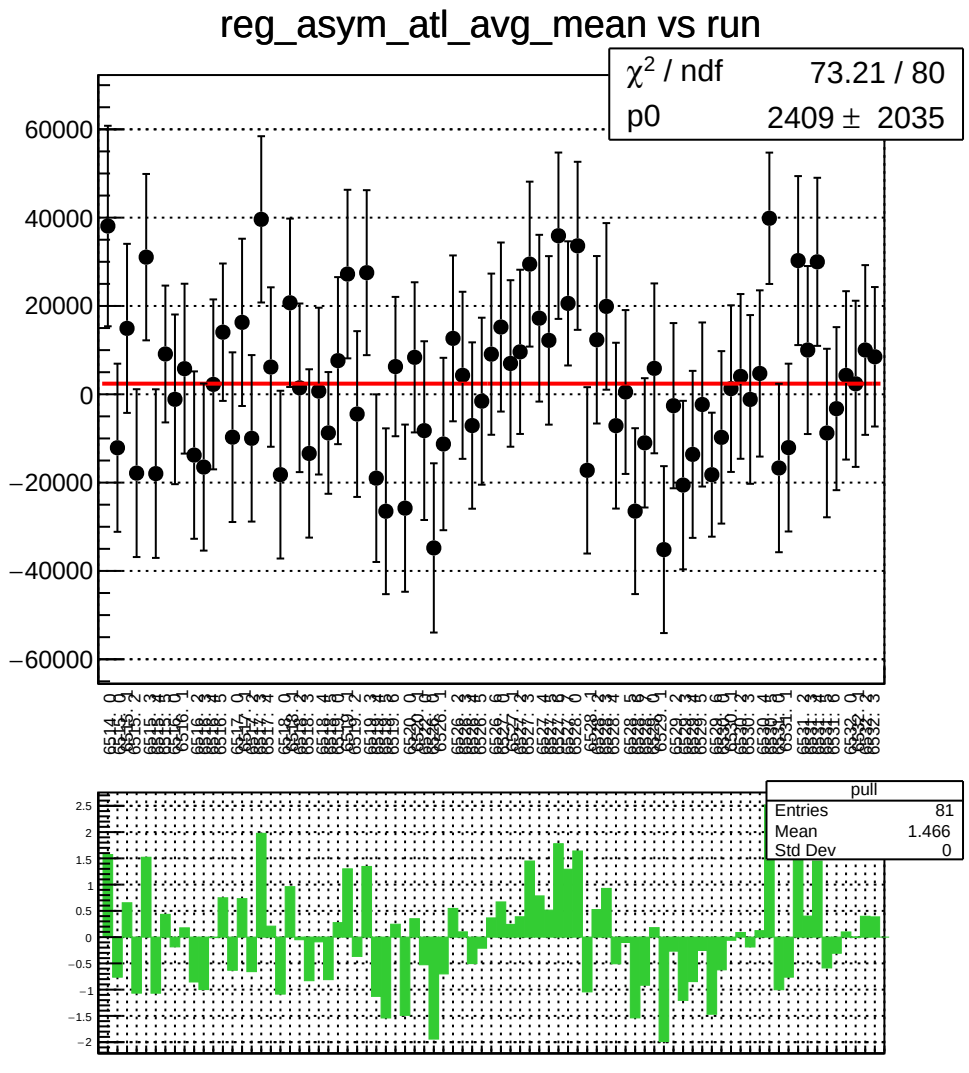

pull1D
Entries 81
Mean −0.05123
Std Dev 1.153

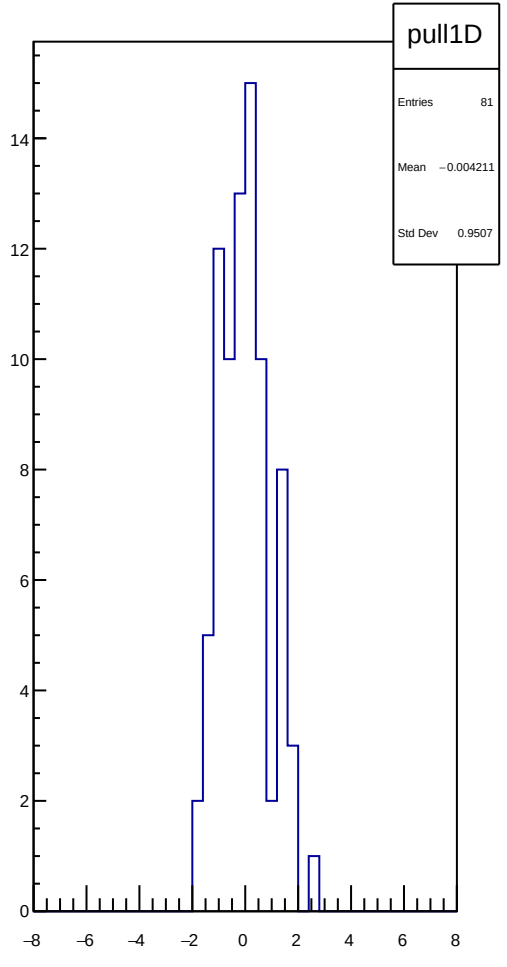

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.752e+04 / 80
p0 601.4 ± 0.4955
1300
1200
1100
1000
900
800
700
600
500
400

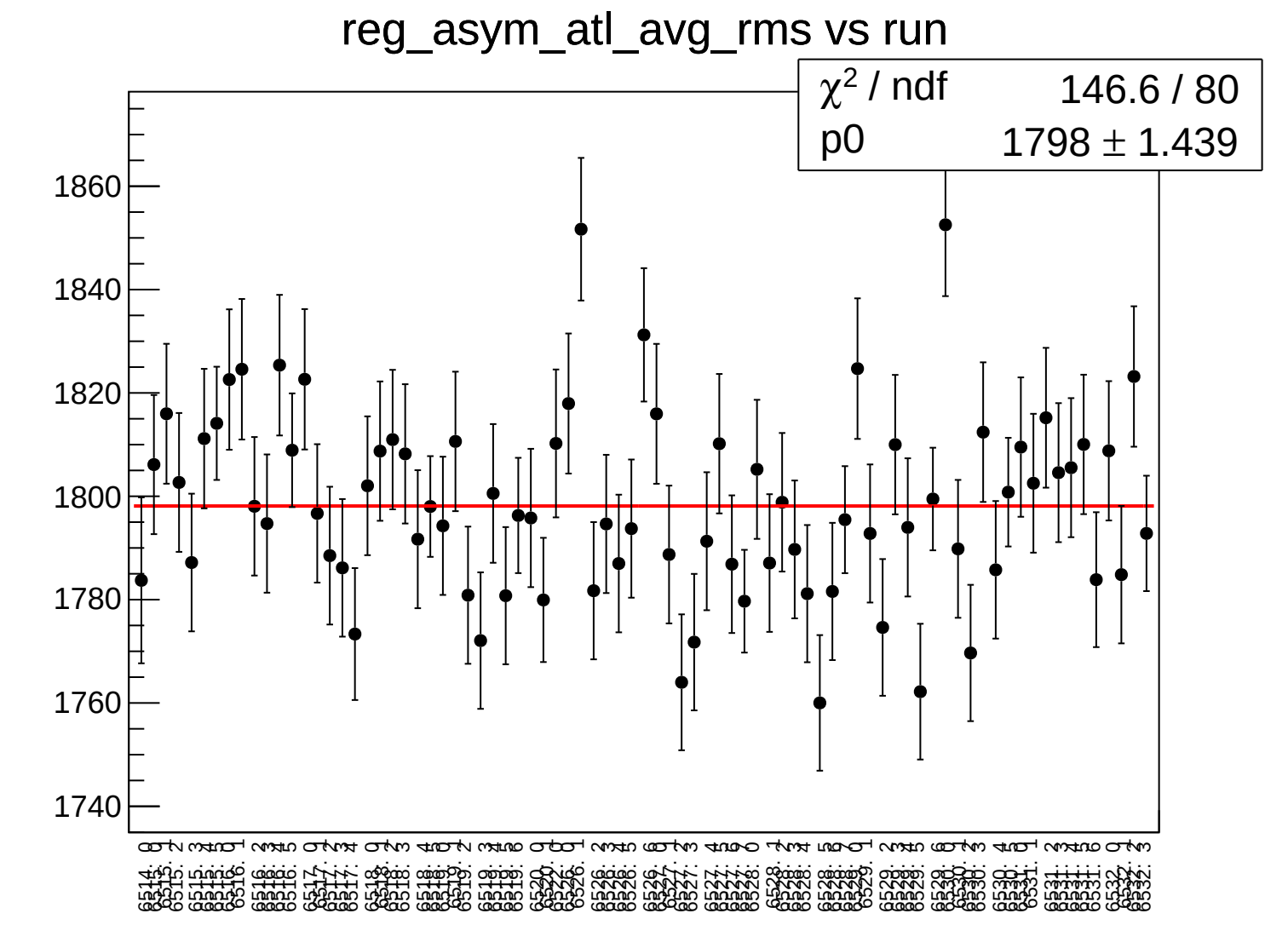

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 68.27 / 80
p0 −1.477e−14 ± 1.307e−13
pull
Entries 81
Mean 72.98
Std Dev 0

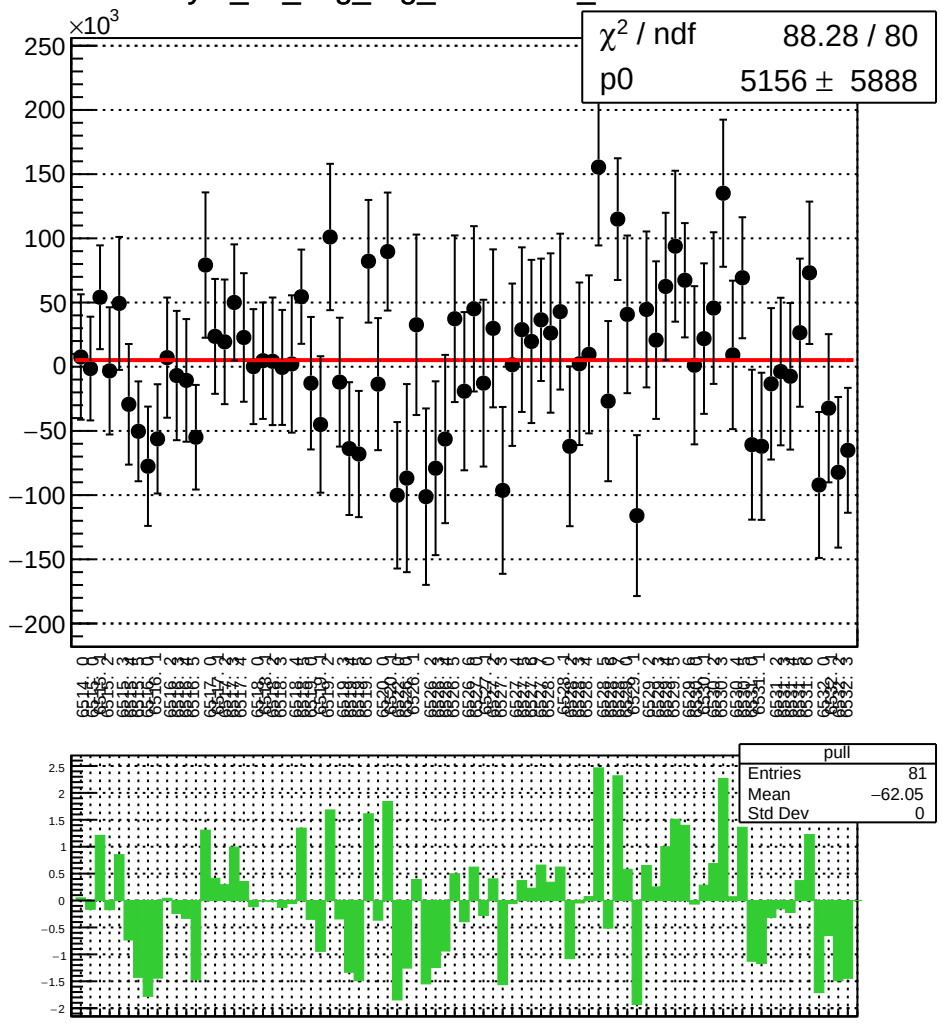

pull1D
Entries 81
Mean 0.1206
Std Dev 0.9101

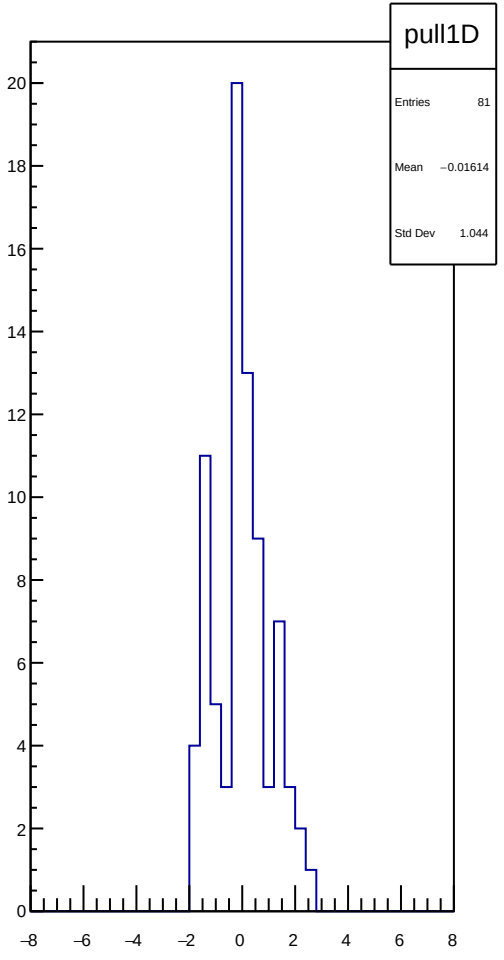

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.443e+05 / 80
p0 8.354e−11 ± 9.245e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

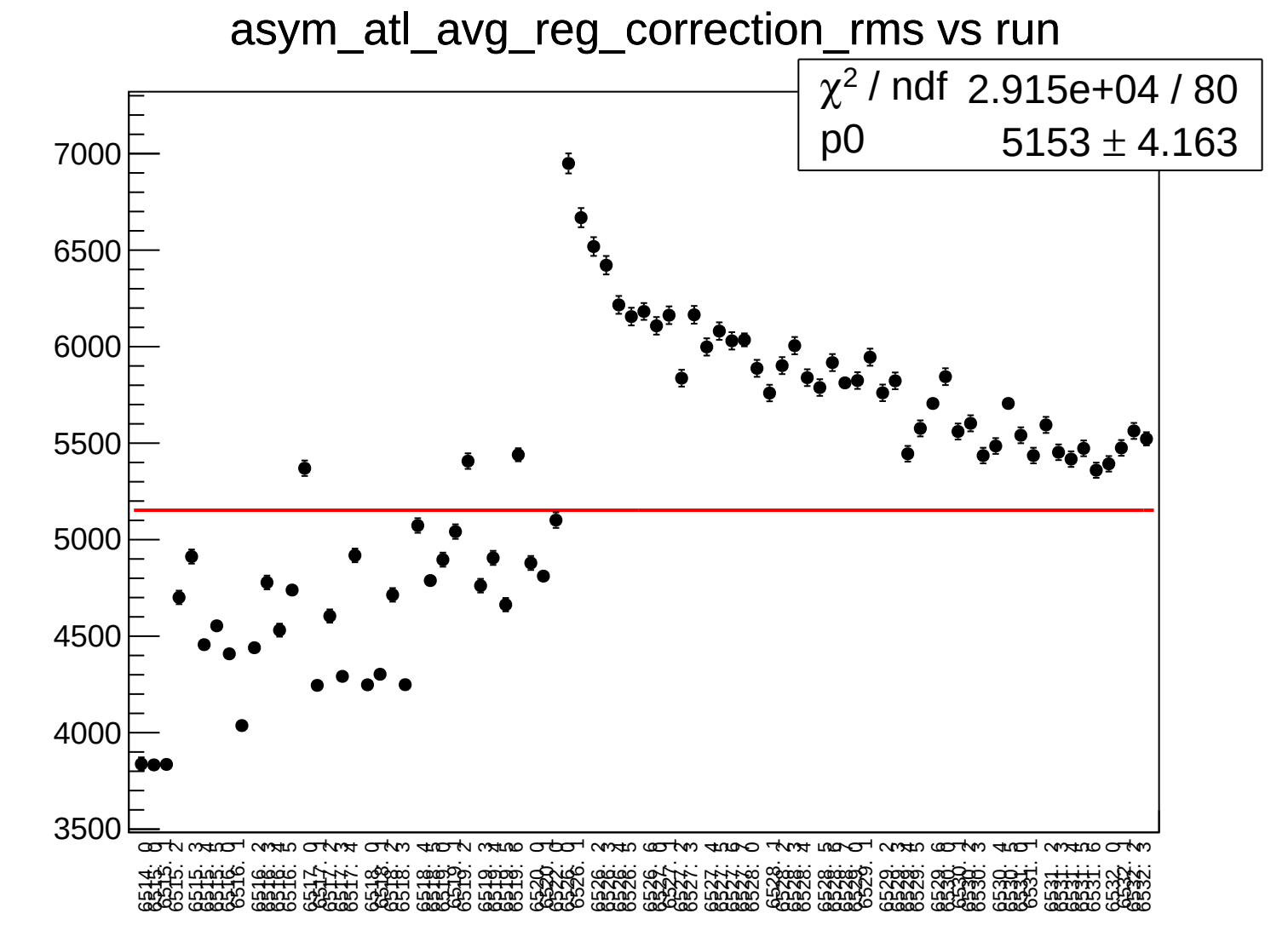

reg_asym_atl_avg_mean vs run
χ² / ndf 73.21 / 80
p0 2409 ± 2035
pull
Entries 81
Mean 1.466
Std Dev 0

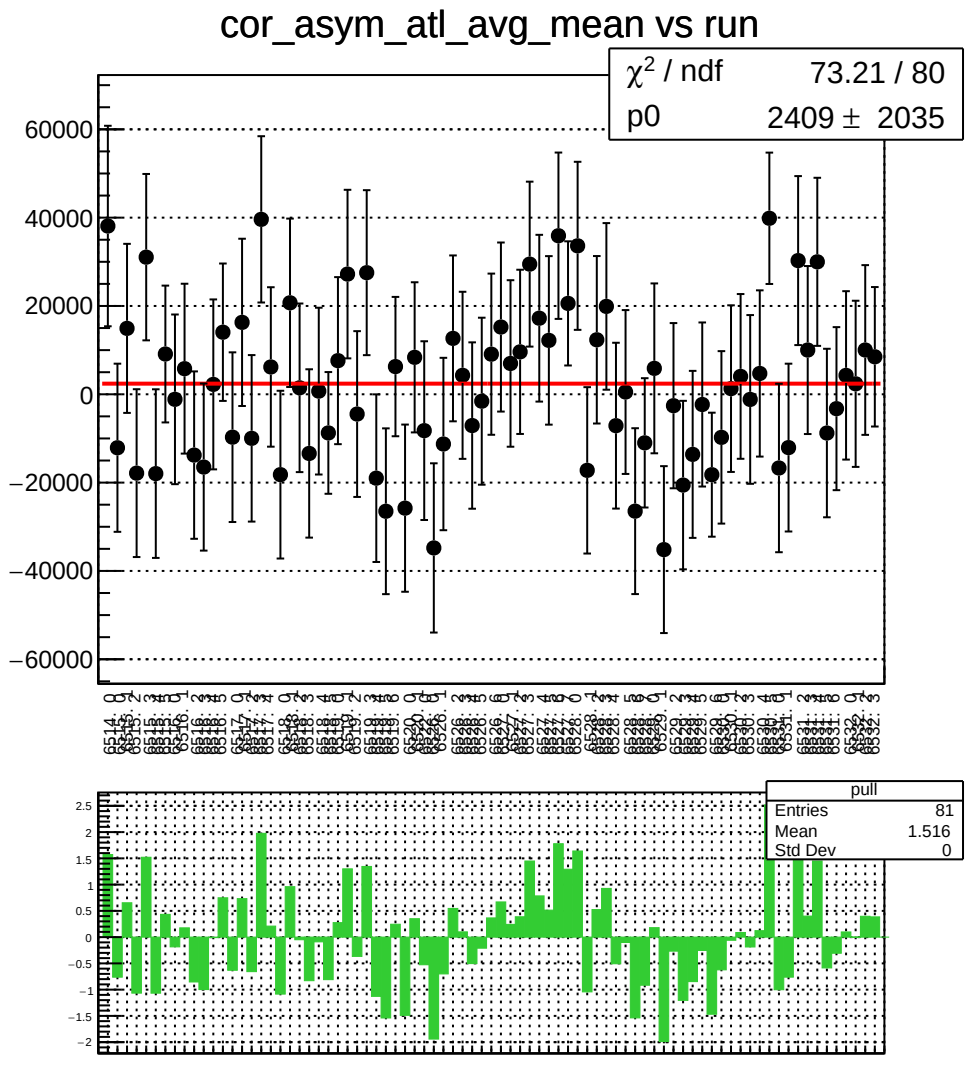

pull1D
Entries 81
Mean −0.004211
Std Dev 0.9507

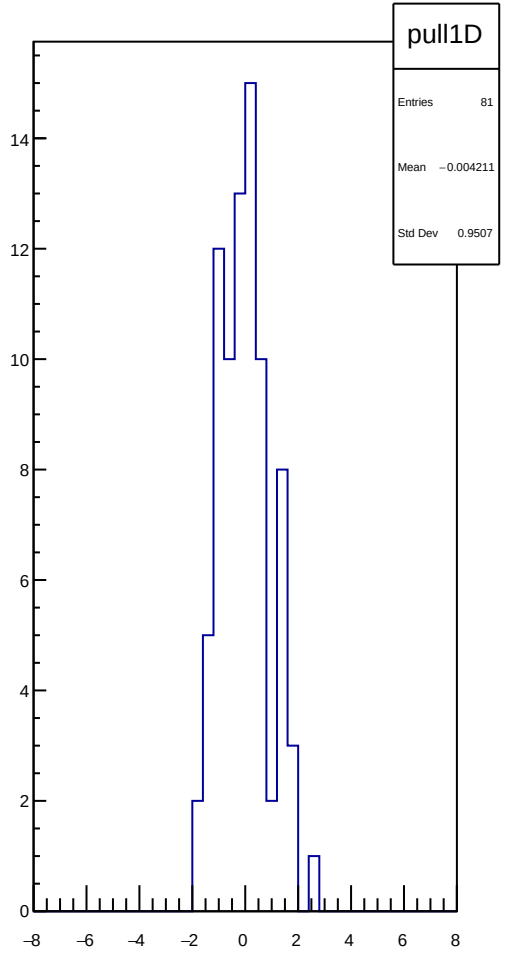

reg_asym_atl_avg_rms vs run
χ² / ndf 146.6 / 80
p0 1798 ± 1.439
1860
1840
1820
1800
1780
1760
1740

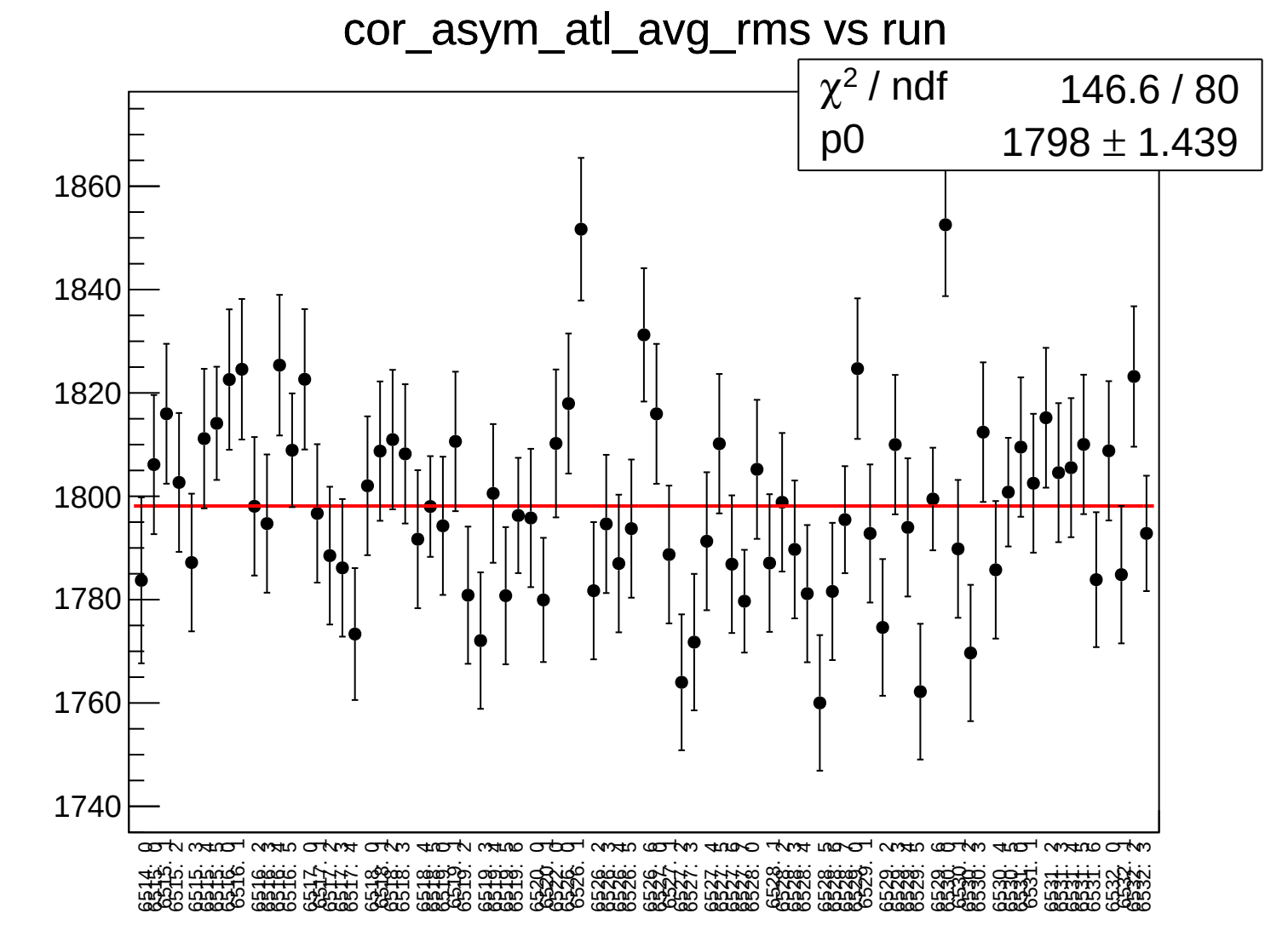

asym_atl_avg_reg_correction_mean vs run
χ² / ndf 88.28 / 80
p0 5156 ± 5888
×10³
pull
Entries 81
Mean −62.05
Std Dev 0

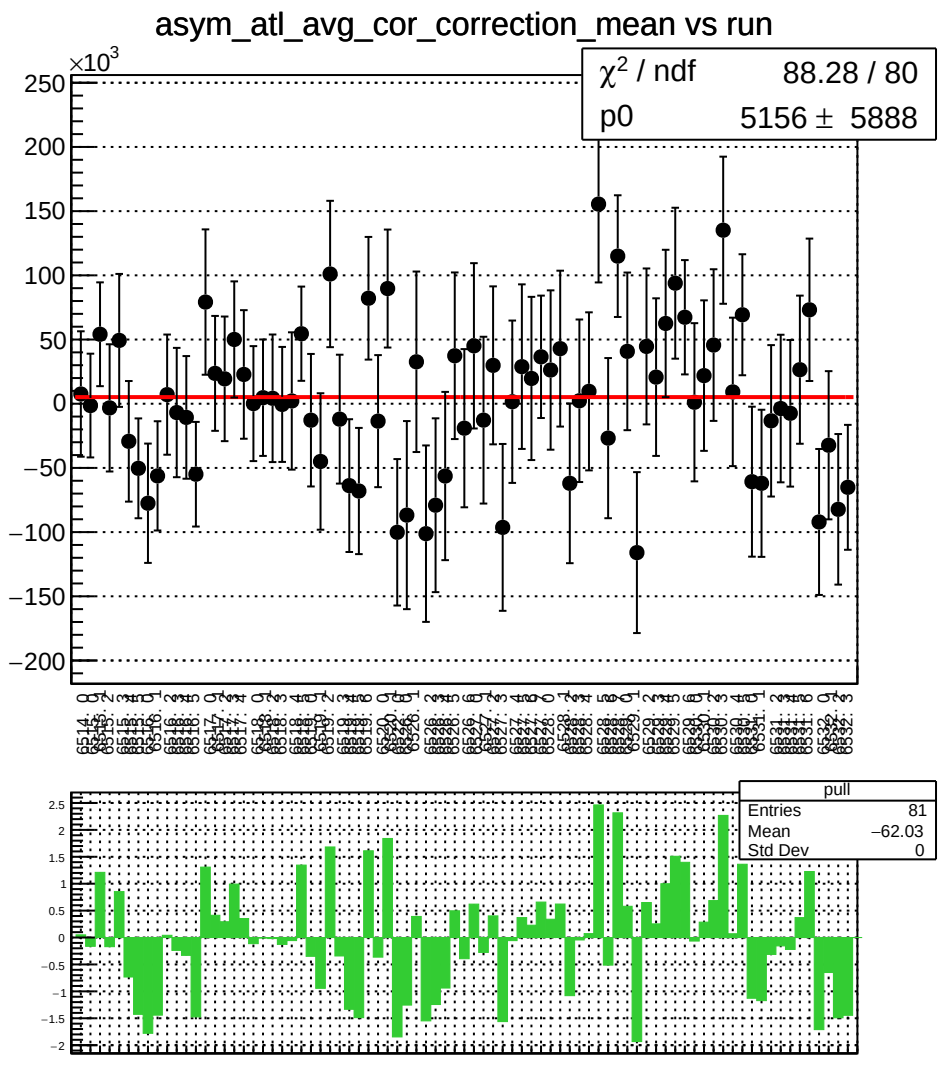

pull1D
Entries 81
Mean −0.01614
Std Dev 1.044

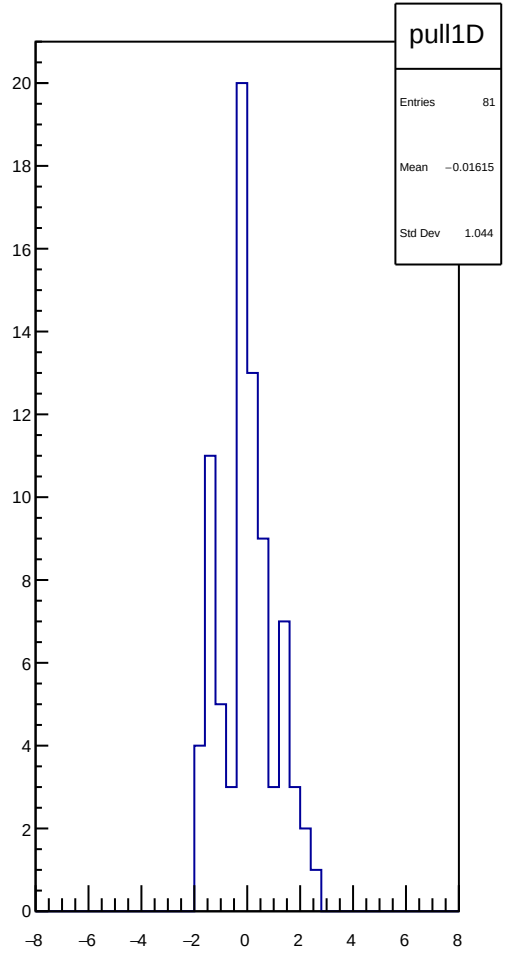

asym_atl_avg_reg_correction_rms vs run
χ^2 / ndf 2.915e+04 / 80
p0 5153 ± 4.163
7000
6500
6000
5500
5000
4500
4000
3500

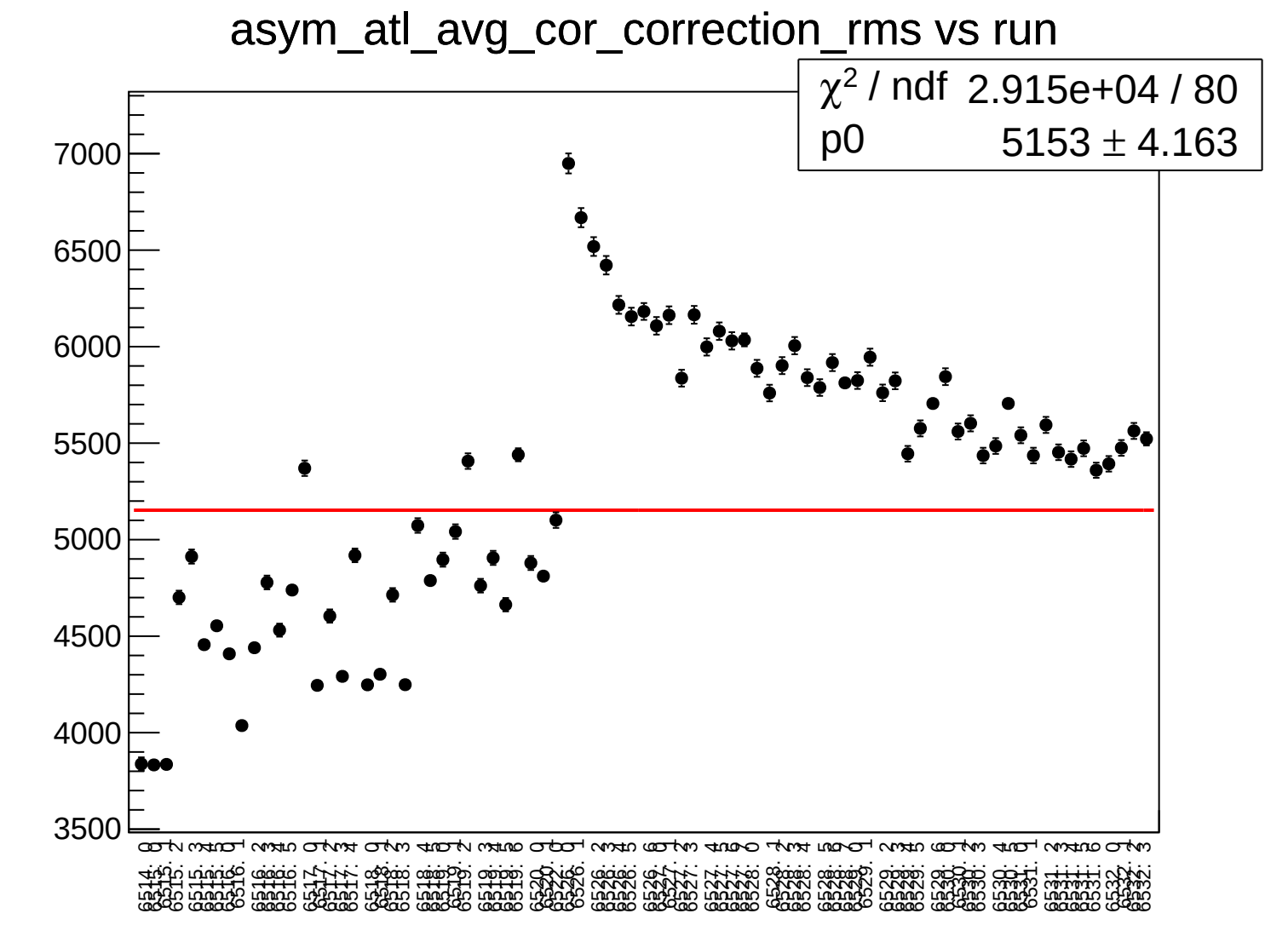

cor_asym_atl_avg_mean vs run
χ² / ndf 73.21 / 80
p0 2409 ± 2035
pull
Entries 81
Mean 1.516
Std Dev 0

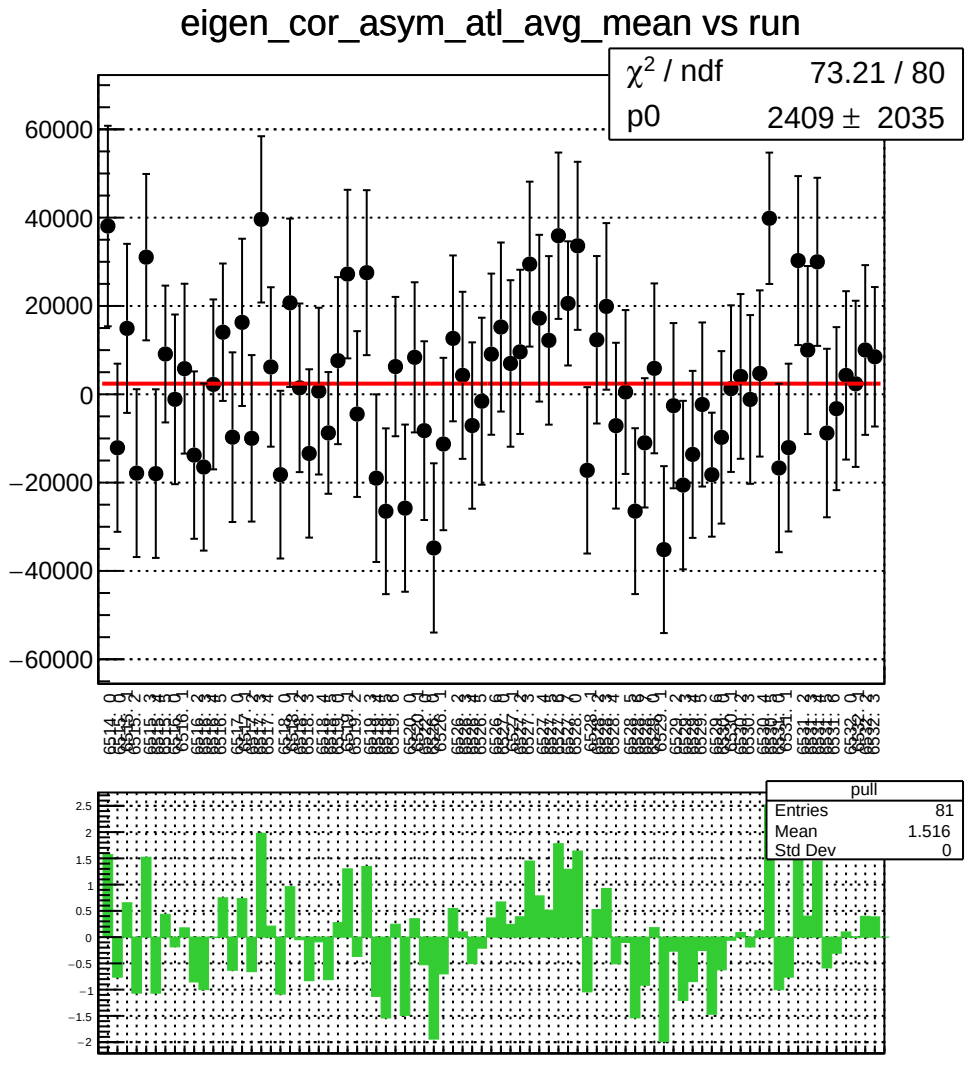

pull1D
Entries 81
Mean −0.004211
Std Dev 0.9507

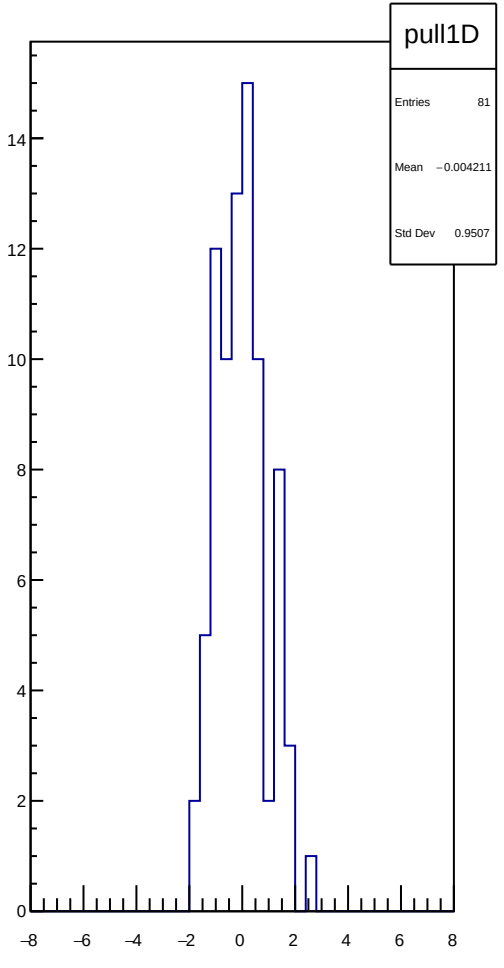

cor_asym_atl_avg_rms vs run
χ² / ndf 146.6 / 80
p0 1798 ± 1.439
1860
1840
1820
1800
1780
1760
1740

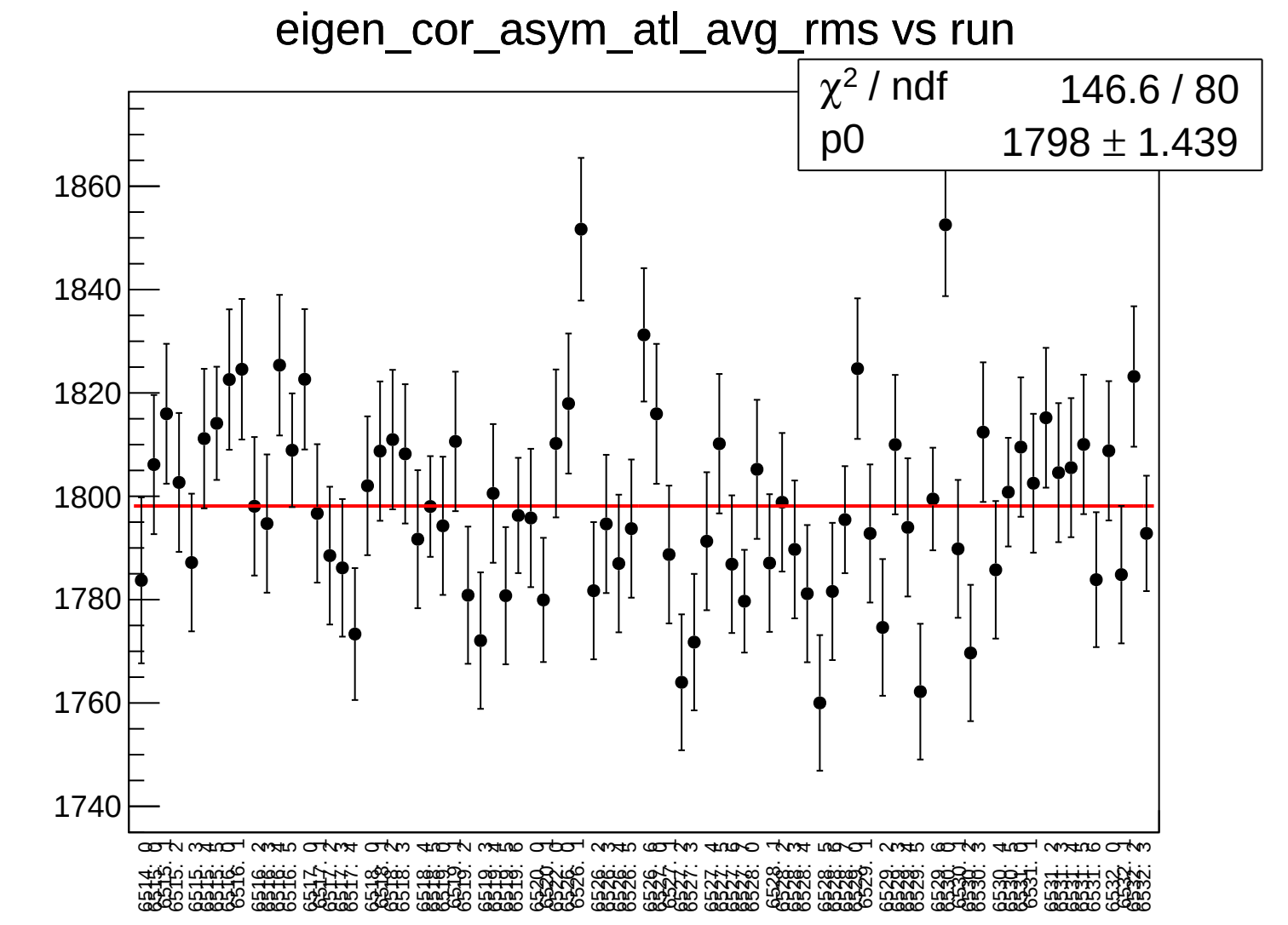

asym_atl_avg_cor_correction_mean vs run
χ² / ndf 88.28 / 80
p0 5156 ± 5888
×10³
pull
Entries 81
Mean −62.03
Std Dev 0

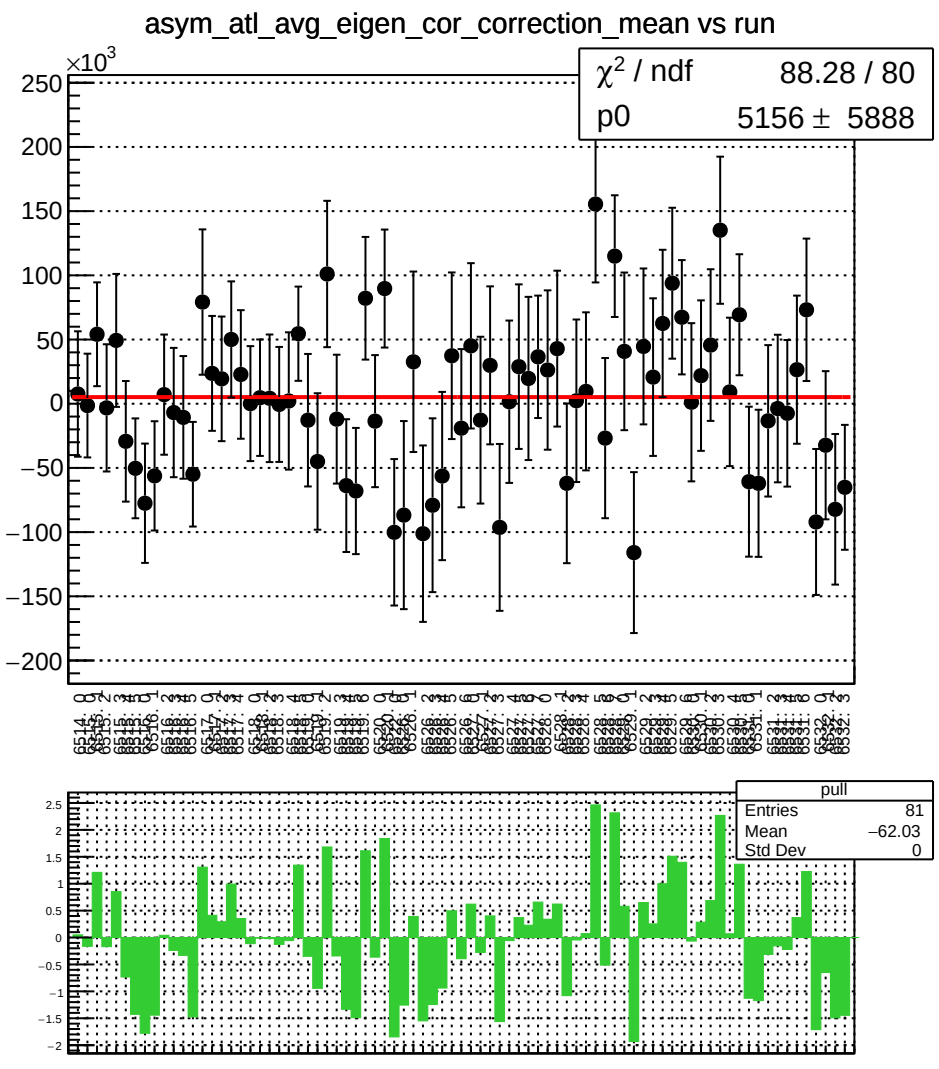

pull1D
Entries 81
Mean −0.01615
Std Dev 1.044

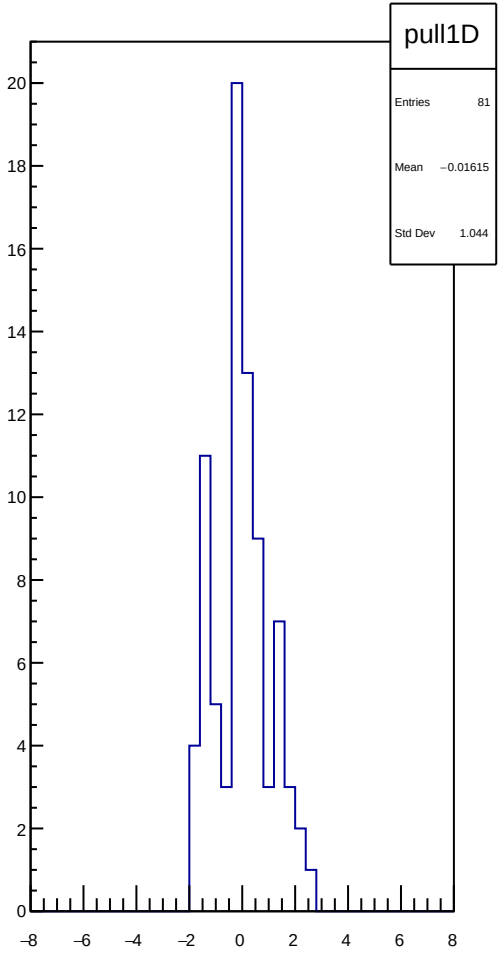

asym_atl_avg_cor_correction_rms vs run
χ² / ndf 2.915e+04 / 80
p0 5153 ± 4.163
7000
6500
6000
5500
5000
4500
4000
3500

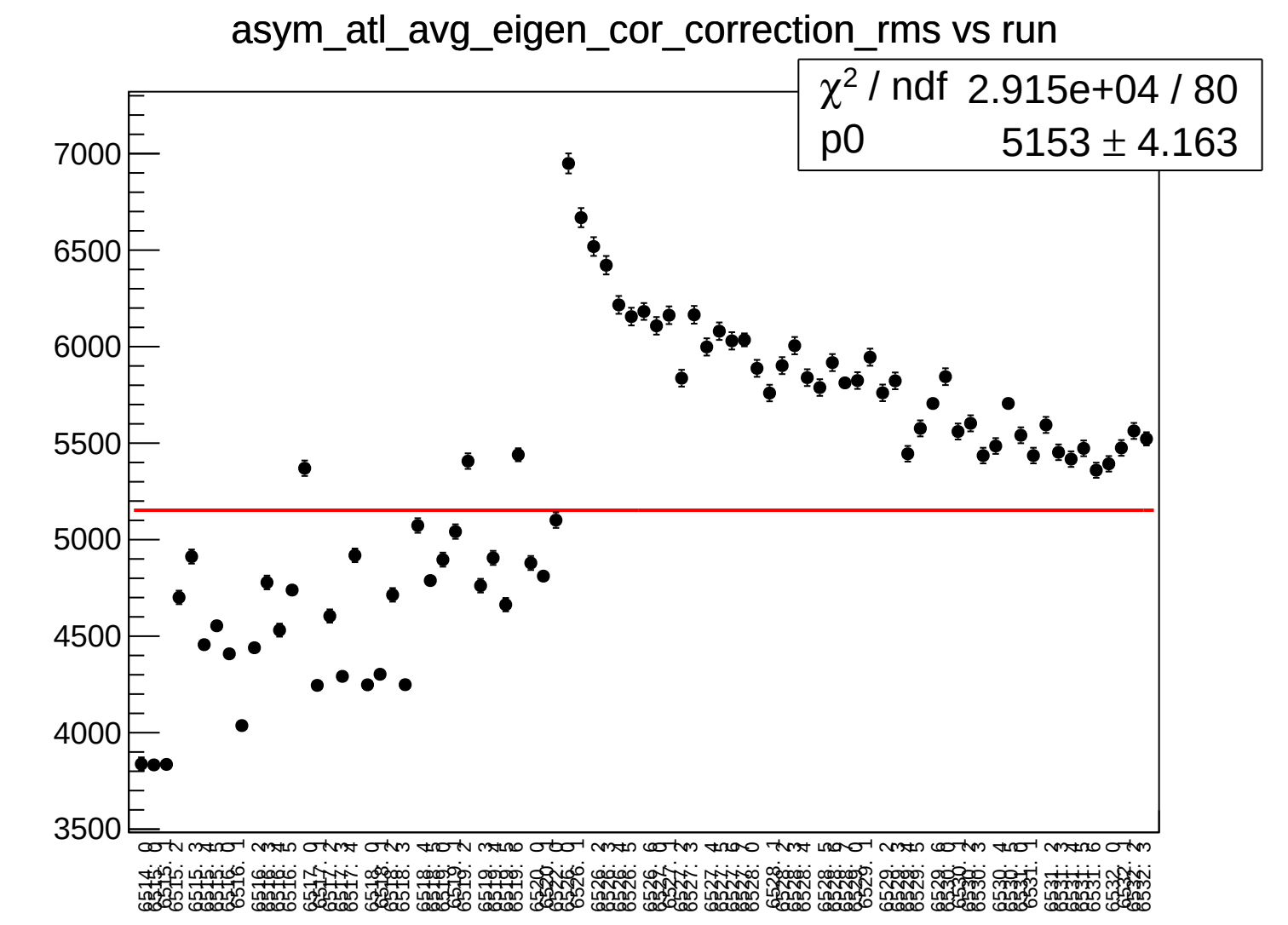

eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 73.21 / 80
p0 2409 ± 2035
pull
Entries 81
Mean 1.516
Std Dev 0

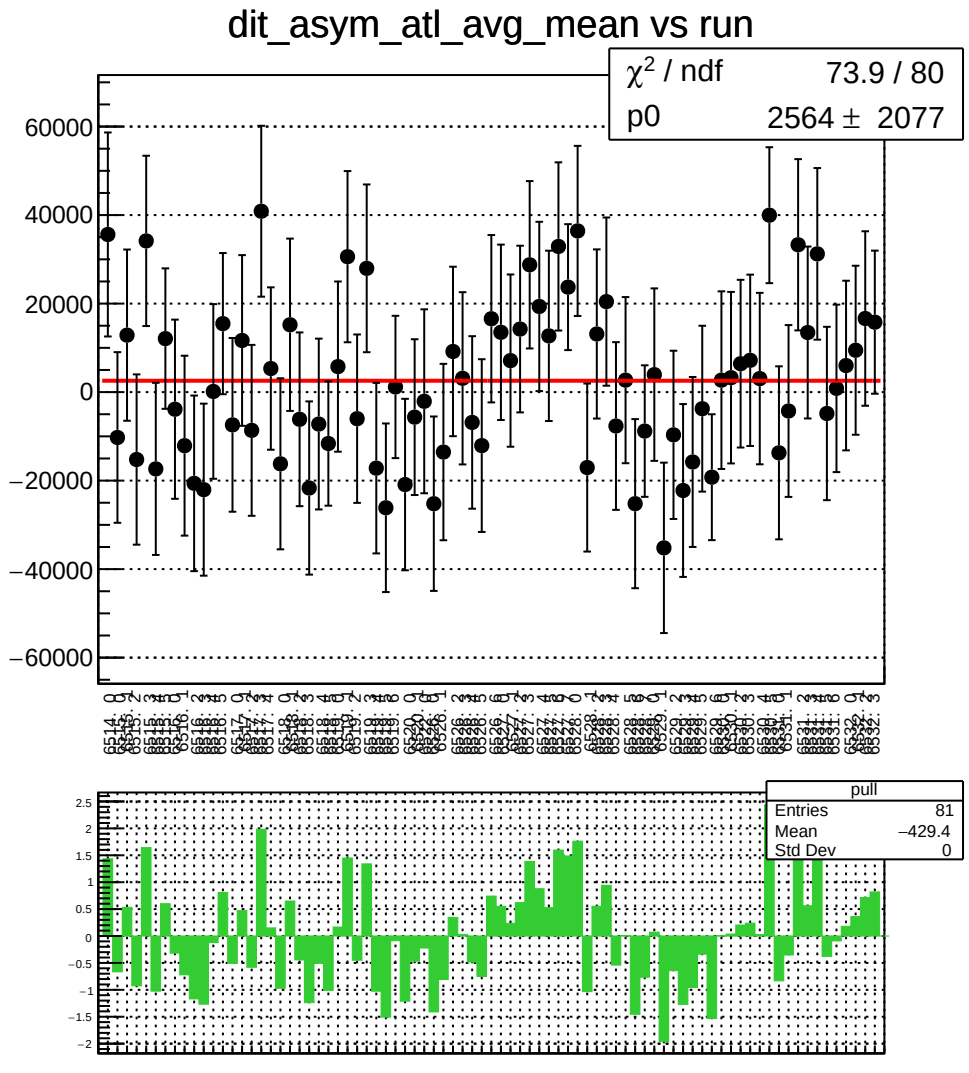

pull1D
Entries 81
Mean −0.004211
Std Dev 0.9507

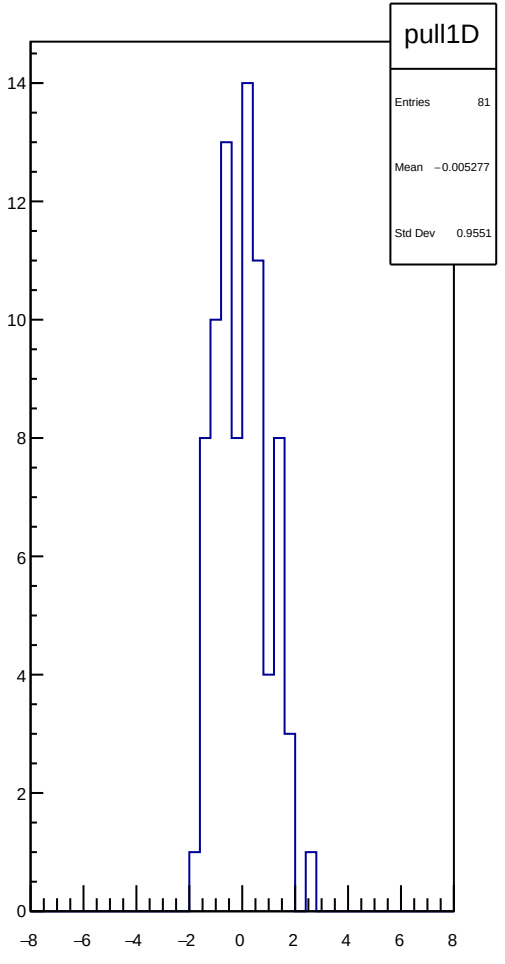

eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 146.6 / 80
p0 1798 ± 1.439
1860
1840
1820
1800
1780
1760
1740

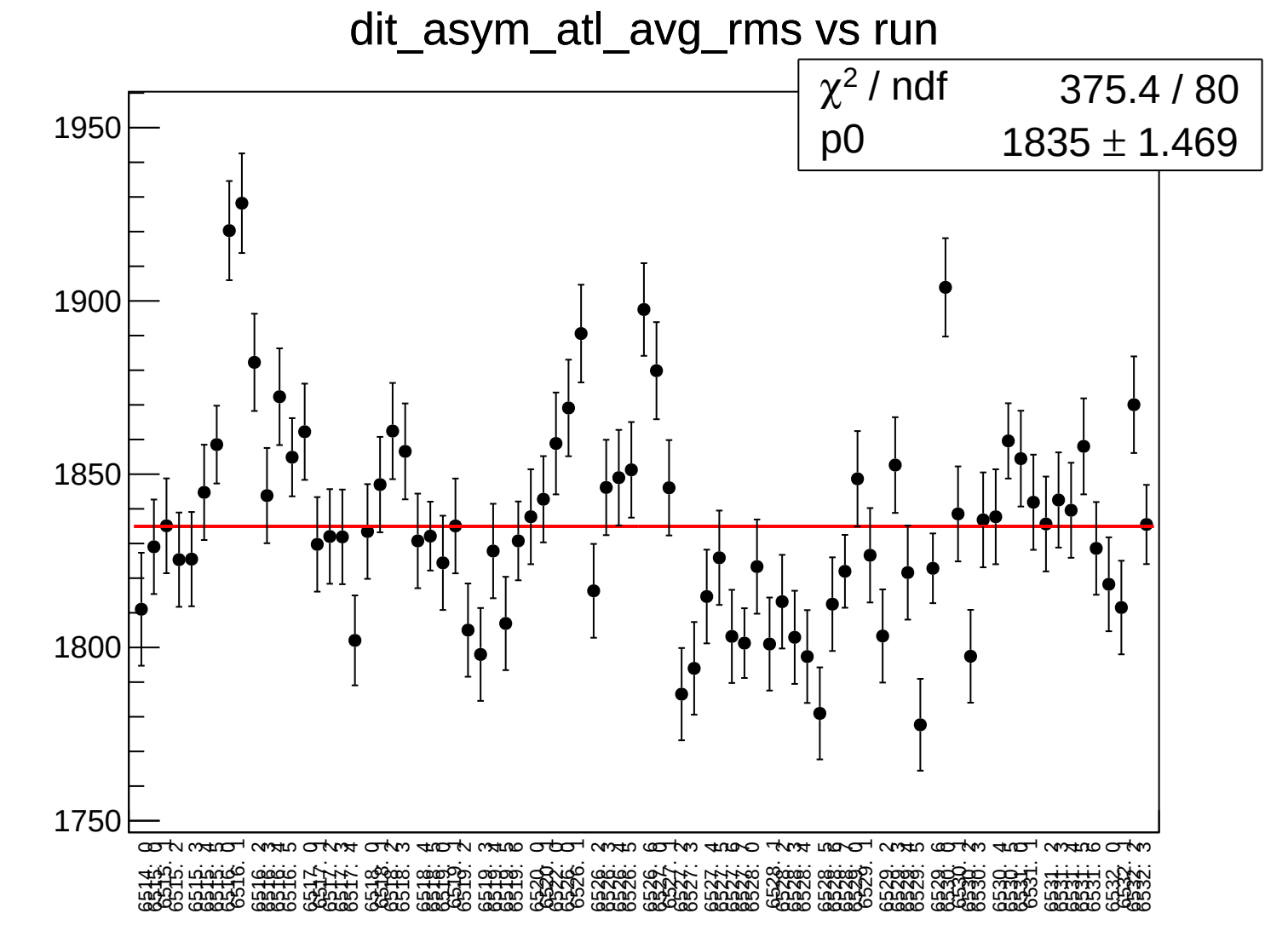

asym_atl_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 88.28 / 80
p0 5156 ± 5888
pull
Entries 81
Mean −62.03
Std Dev 0

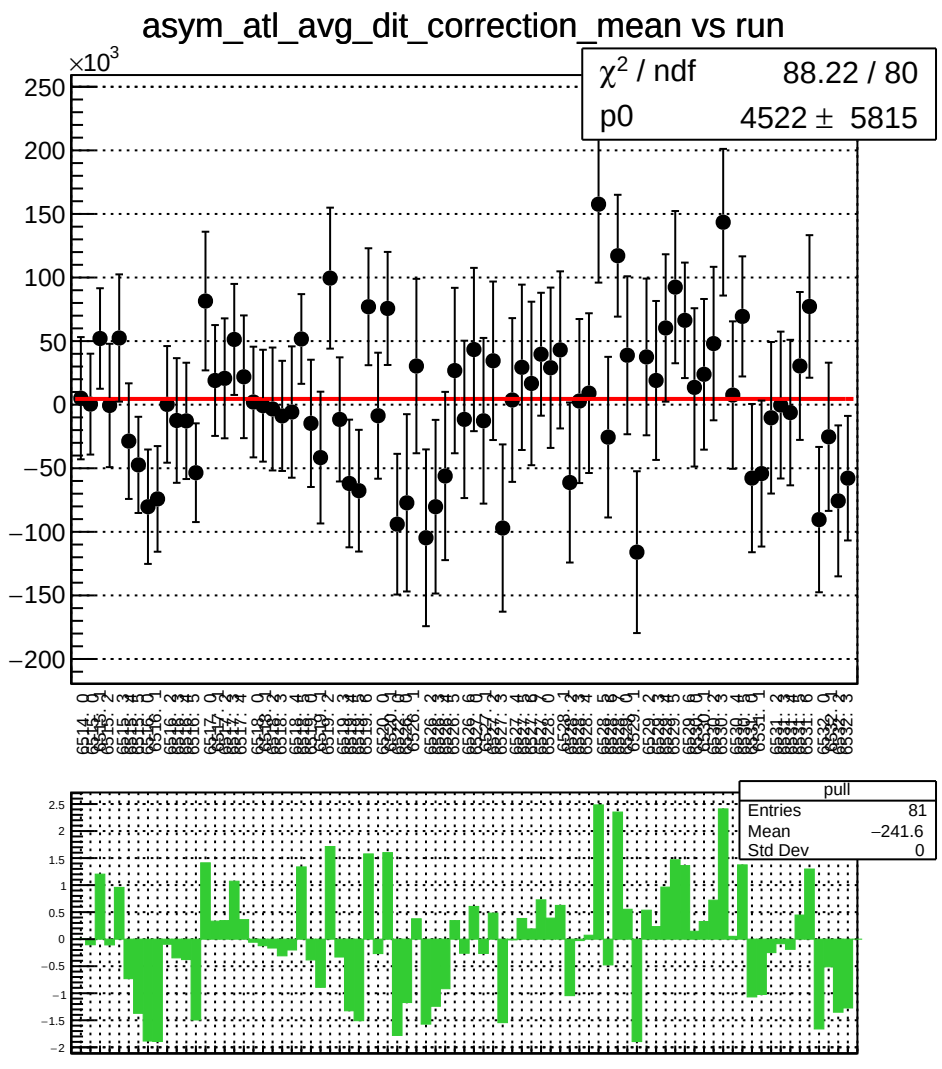

pull1D
Entries 81
Mean −0.01615
Std Dev 1.044

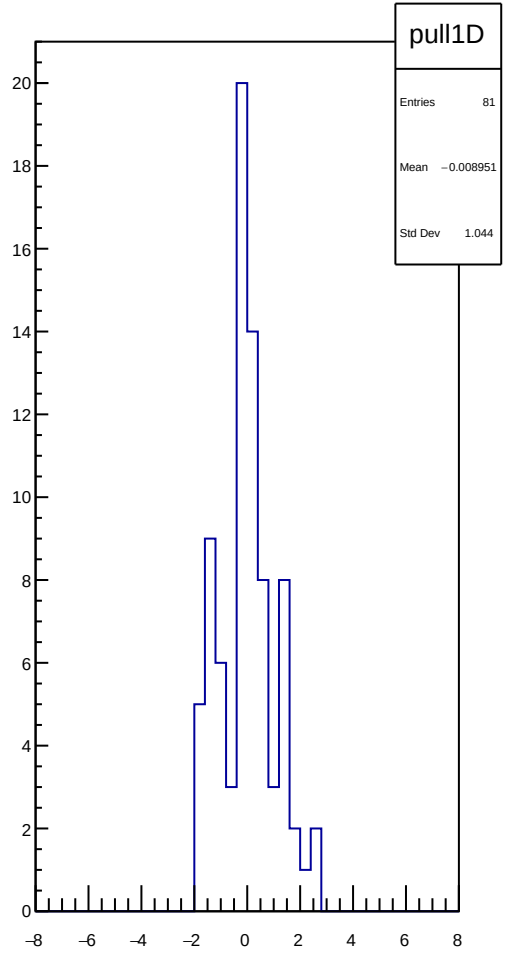

asym_atl_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.915e+04 / 80
p0 5153 ± 4.163
7000
6500
6000
5500
5000
4500
4000
3500

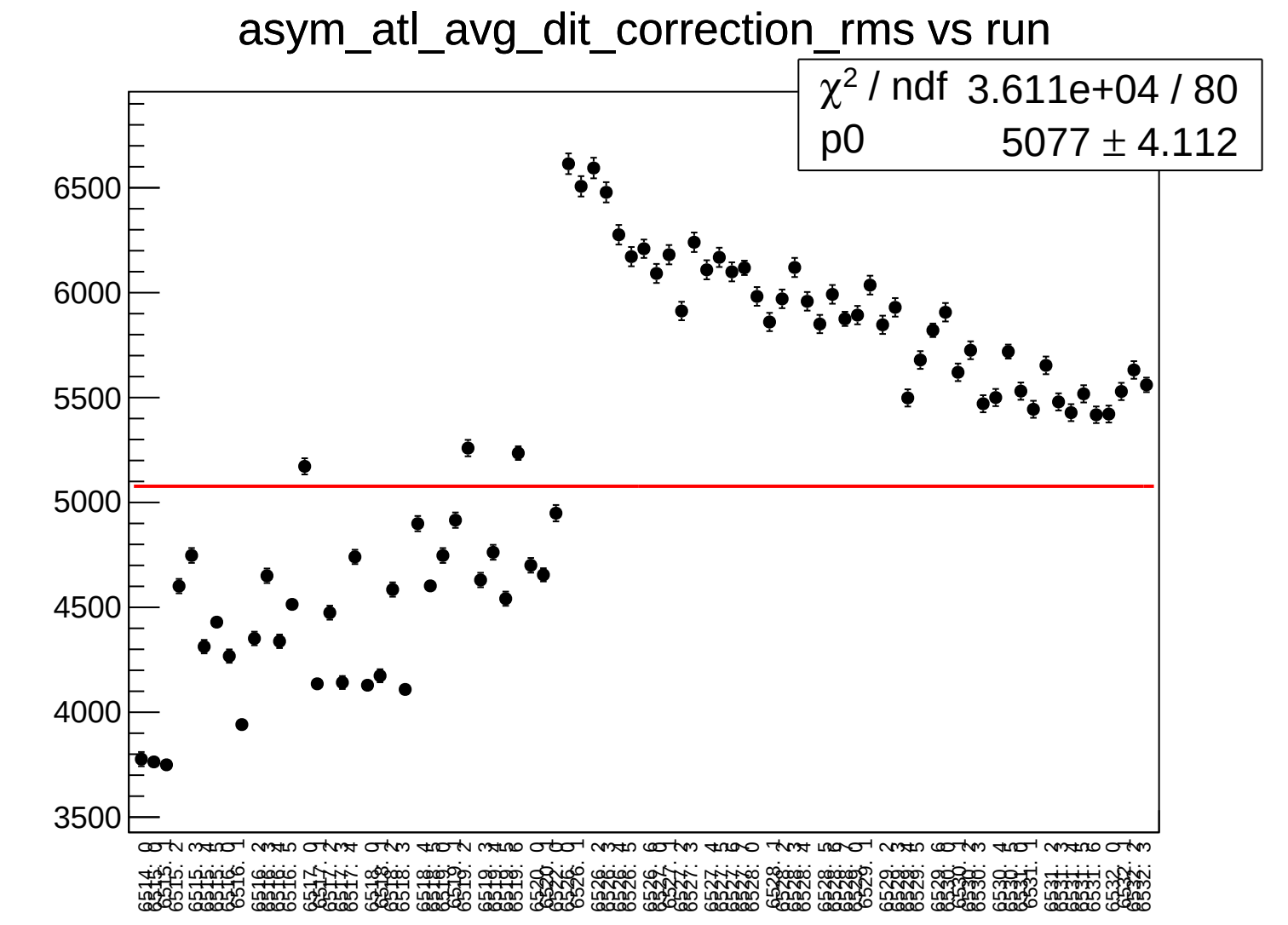

dit_asym_atl_avg_mean vs run
χ² / ndf 73.9 / 80
p0 2564 ± 2077
pull
Entries 81
Mean −429.4
Std Dev 0

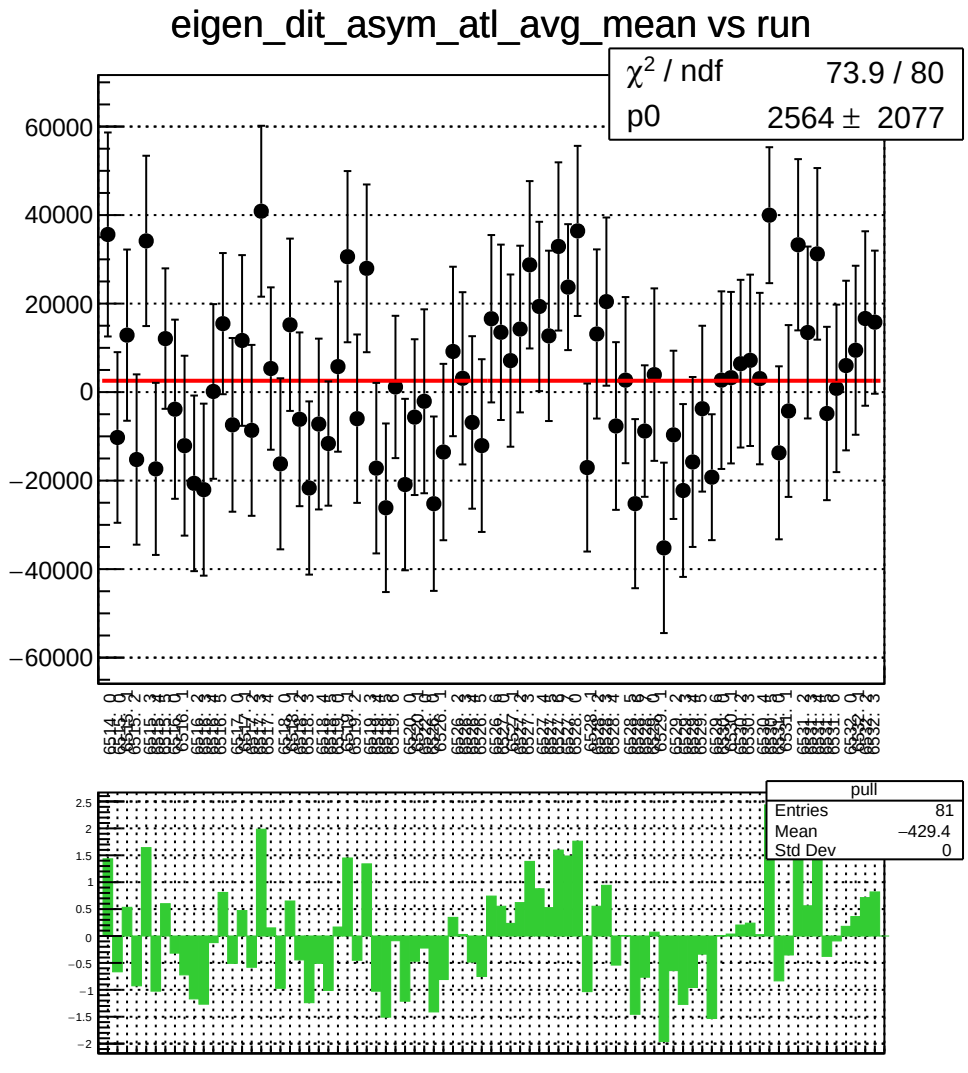

pull1D
Entries 81
Mean −0.005277
Std Dev 0.9551

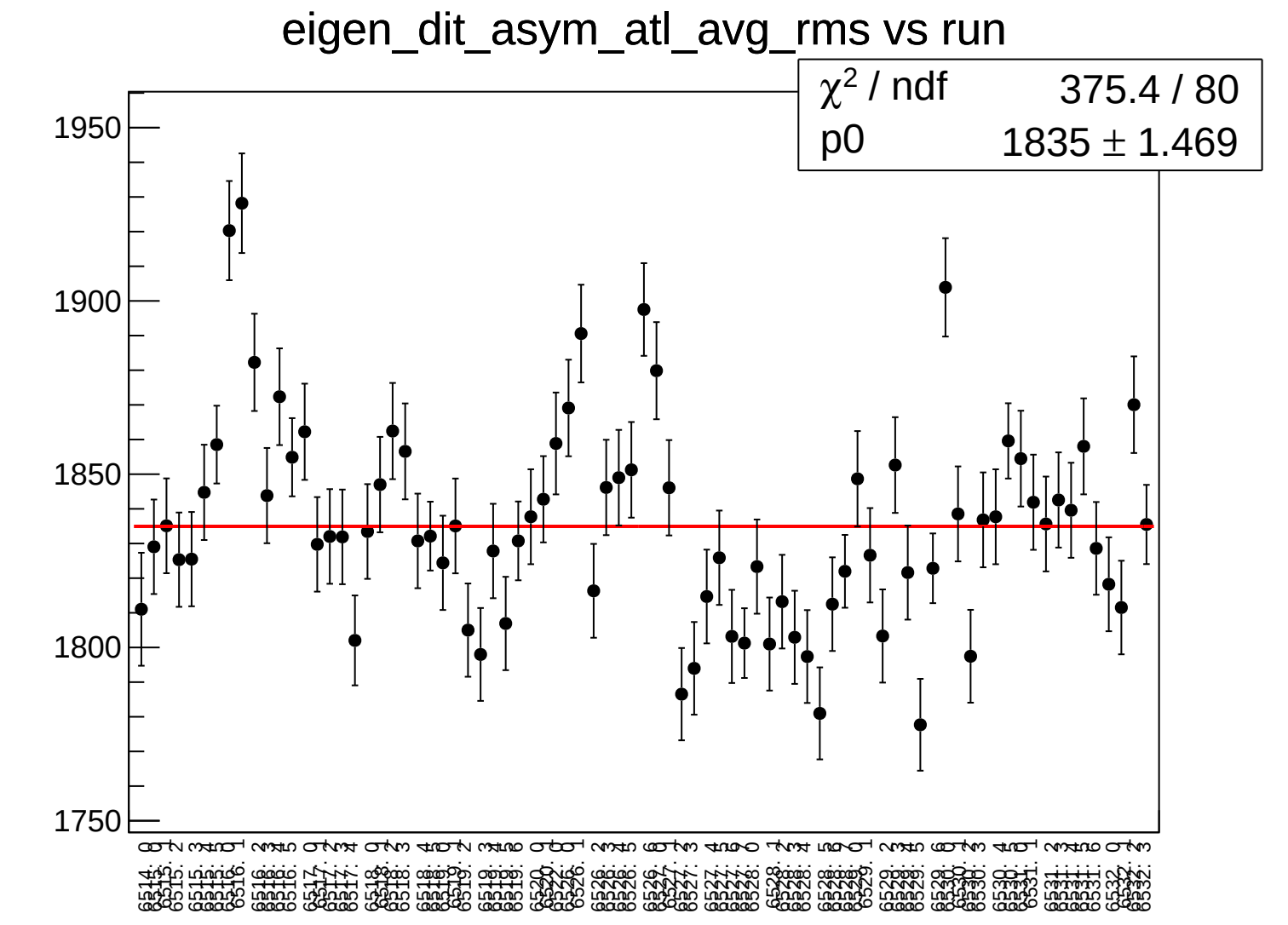

dit_asym_atl_avg_rms vs run
χ² / ndf 375.4 / 80
p0 1835 ± 1.469
1950
1900
1850
1800
1750

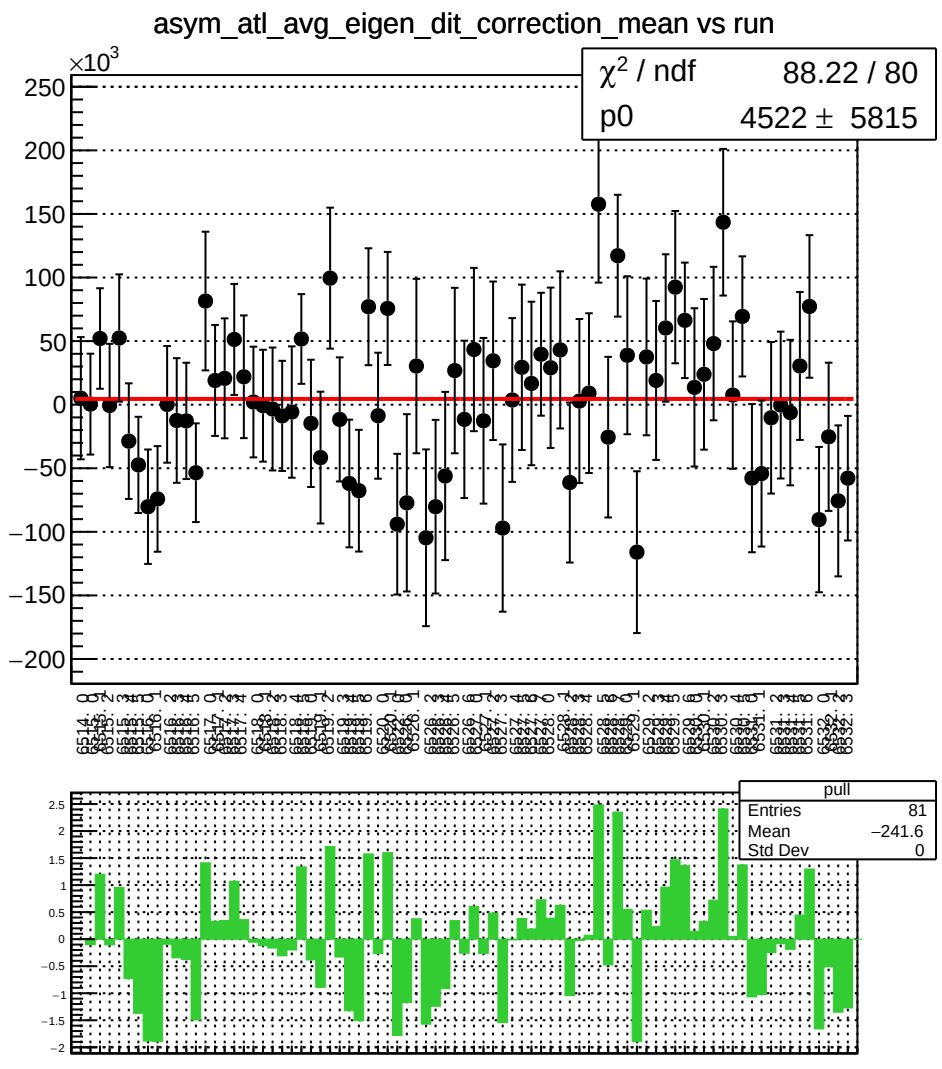

asym_atl_avg_dit_correction_mean vs run
×10^3
χ² / ndf 88.22 / 80
p0 4522 ± 5815
pull
Entries 81
Mean −241.6
Std Dev 0

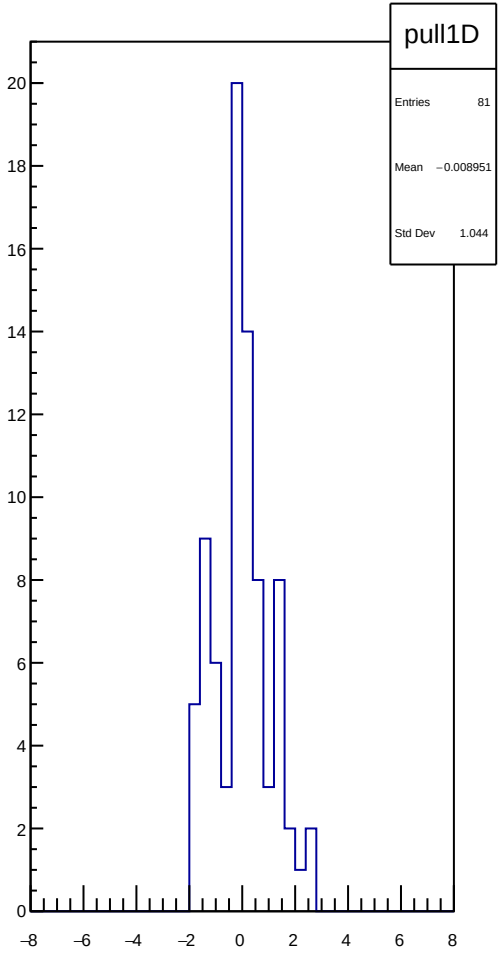

pull1D
Entries 81
Mean −0.008951
Std Dev 1.044

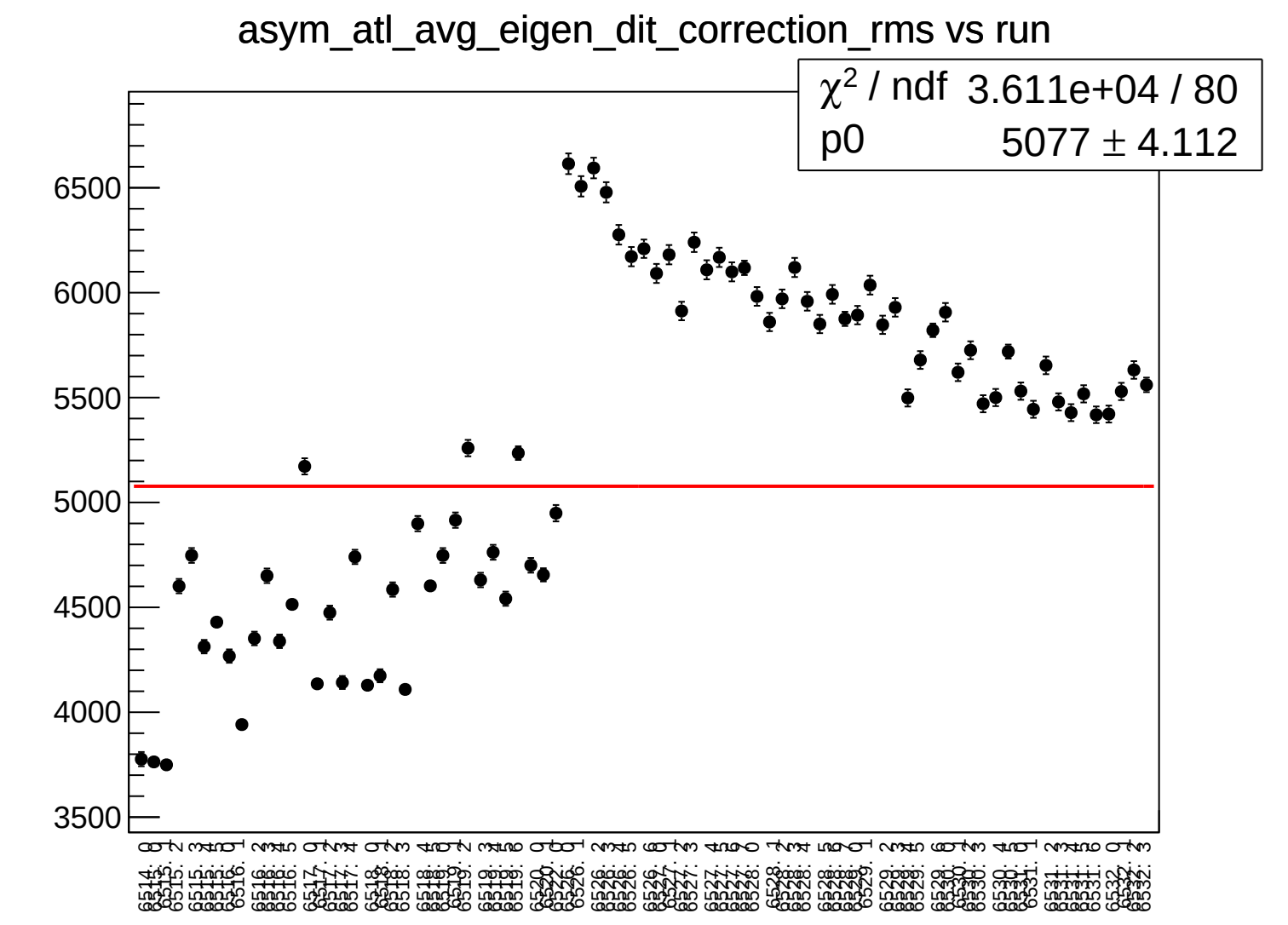

asym_atl_avg_dit_correction_rms vs run
χ² / ndf 3.611e+04 / 80
p0 5077 ± 4.112
6500
6000
5500
5000
4500
4000
3500

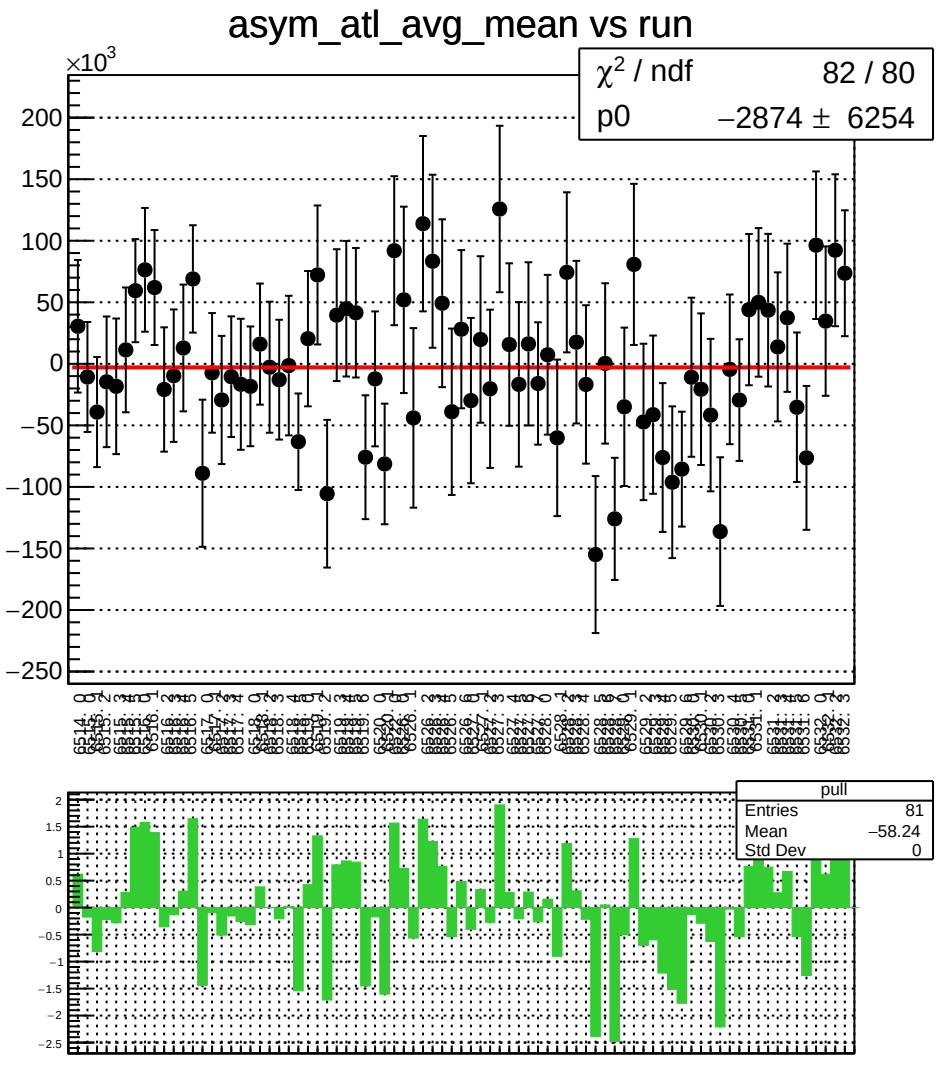

eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 73.9 / 80
p0 2564 ± 2077
pull
Entries 81
Mean −429.4
Std Dev 0
pull1D
Entries 81
Mean −0.005277
Std Dev 0.9551

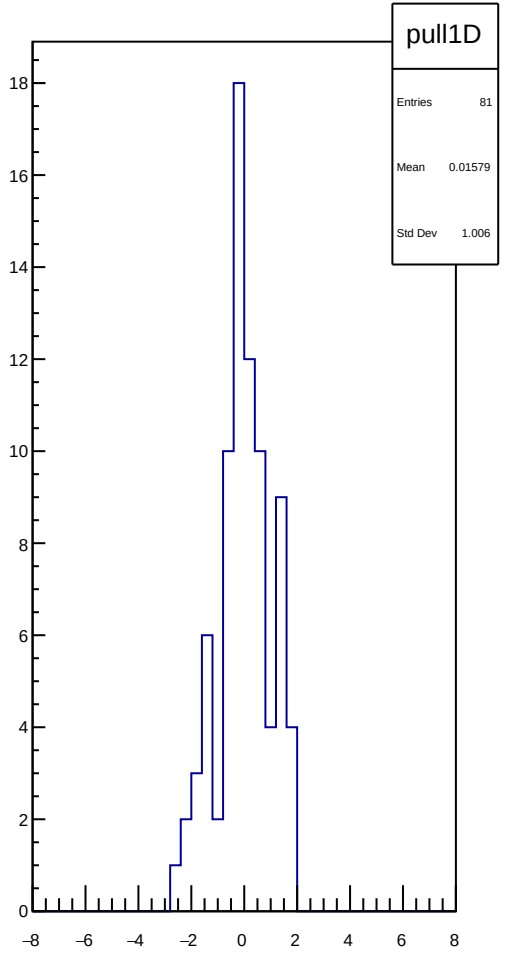

eigen_dit_asym_atl_avg_rms vs run
χ² / ndf 375.4 / 80
p0 1835 ± 1.469
1950
1900
1850
1800
1750

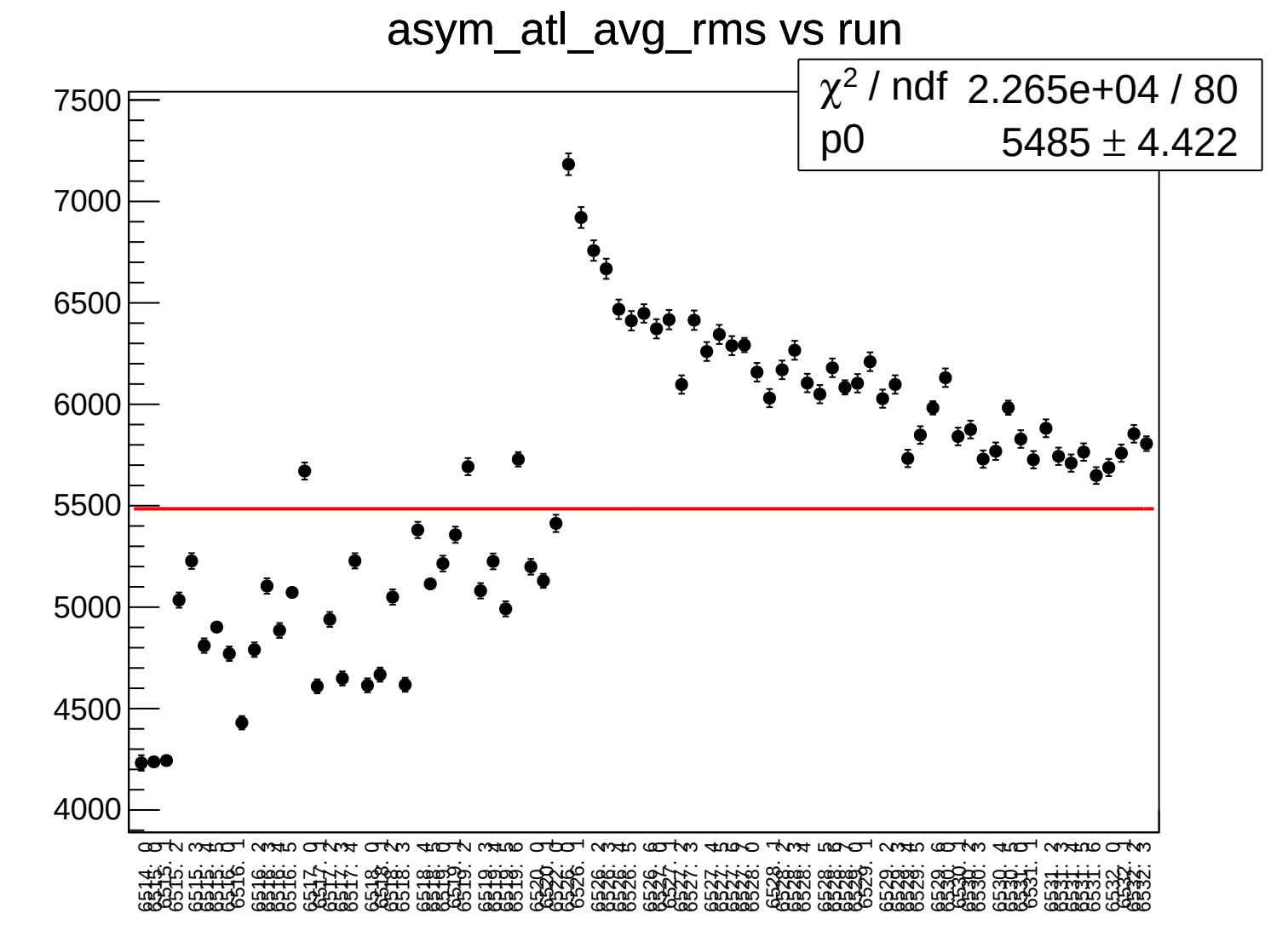

asym_atl_avg_eigen_dit_correction_mean vs run
χ² / ndf 88.22 / 80
p0 4522 ± 5815
pull
Entries 81
Mean −241.6
Std Dev 0

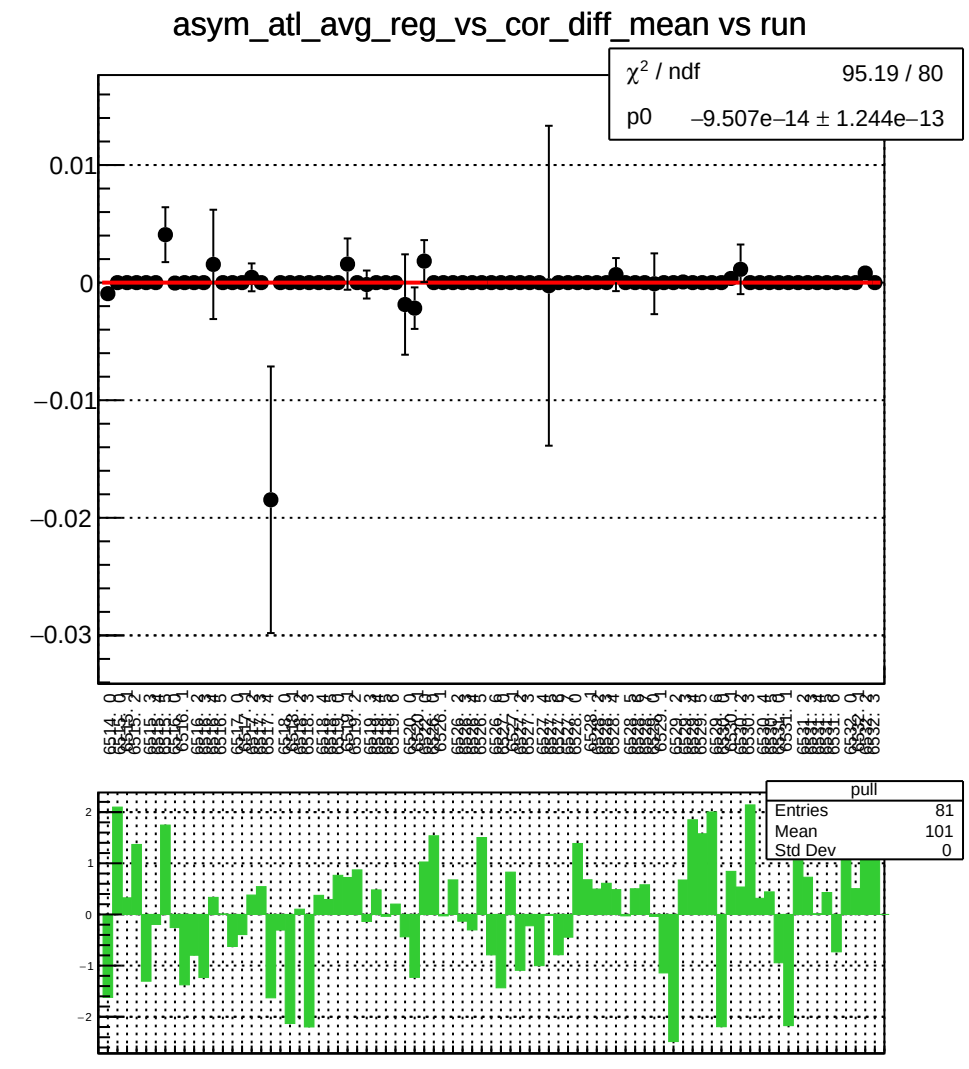

pull1D
Entries 81
Mean −0.008951
Std Dev 1.044

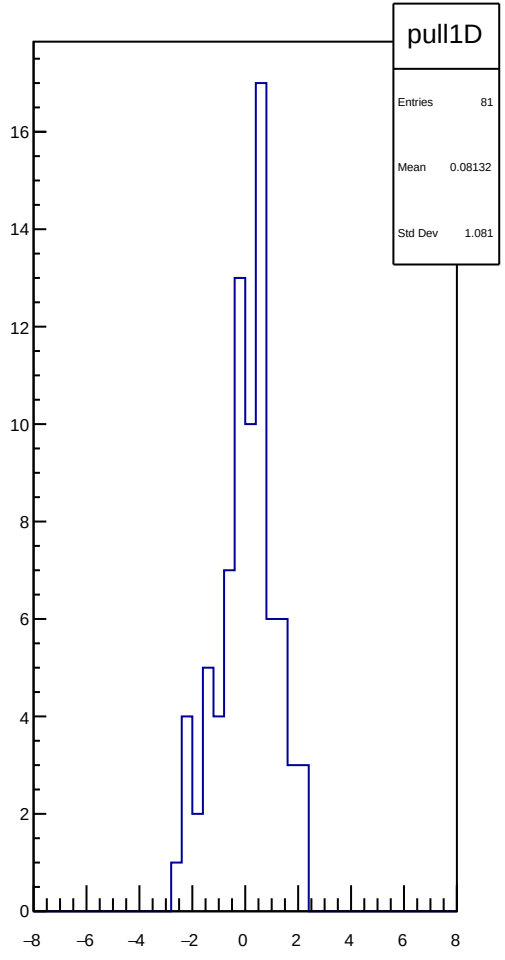

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.611e+04 / 80
p0 5077 ± 4.112
6500
6000
5500
5000
4500
4000
3500

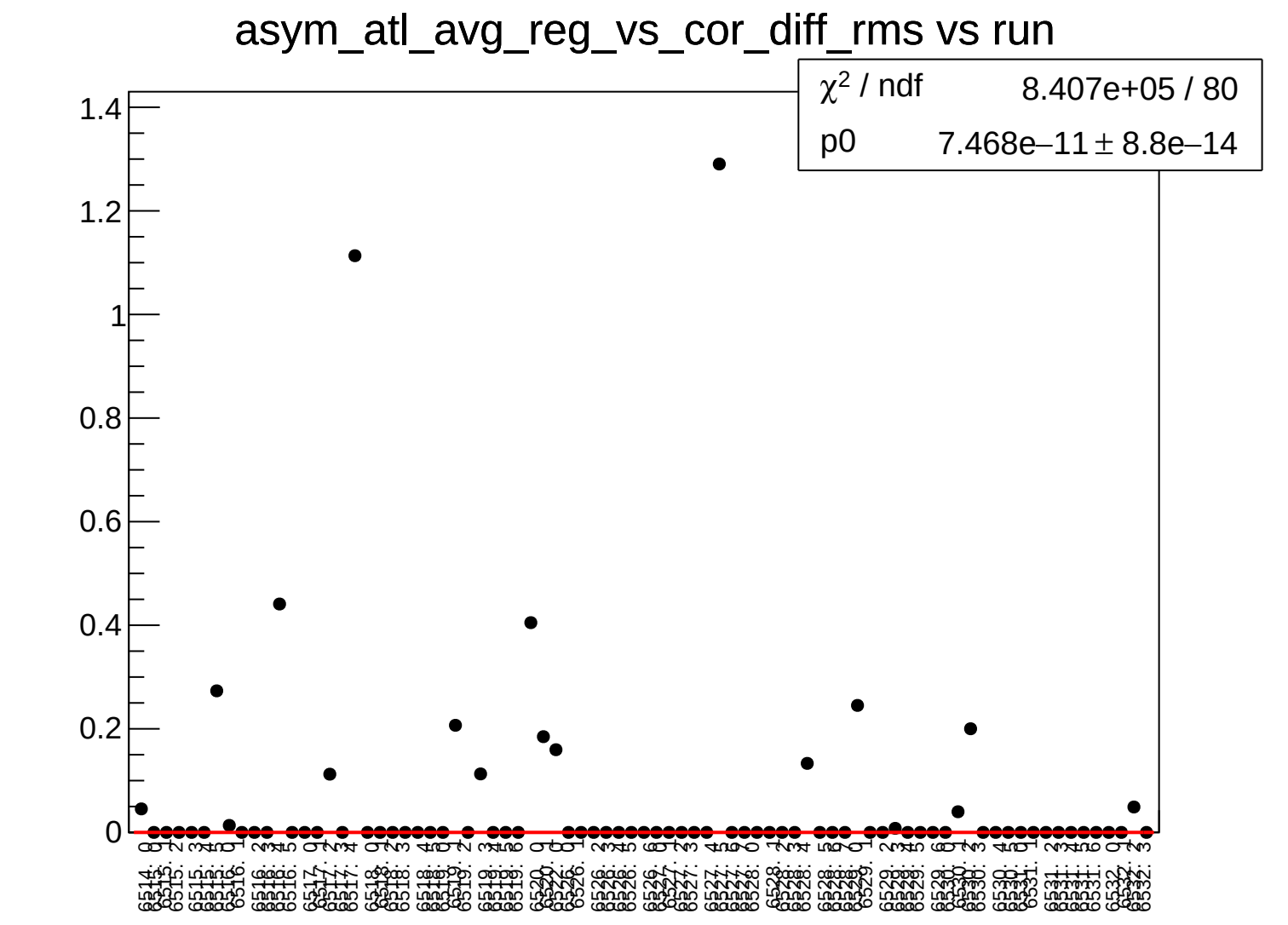

asym_atl_avg_mean vs run
×10^3
χ² / ndf 82 / 80
p0 −2874 ± 6254
pull
Entries 81
Mean −58.24
Std Dev 0

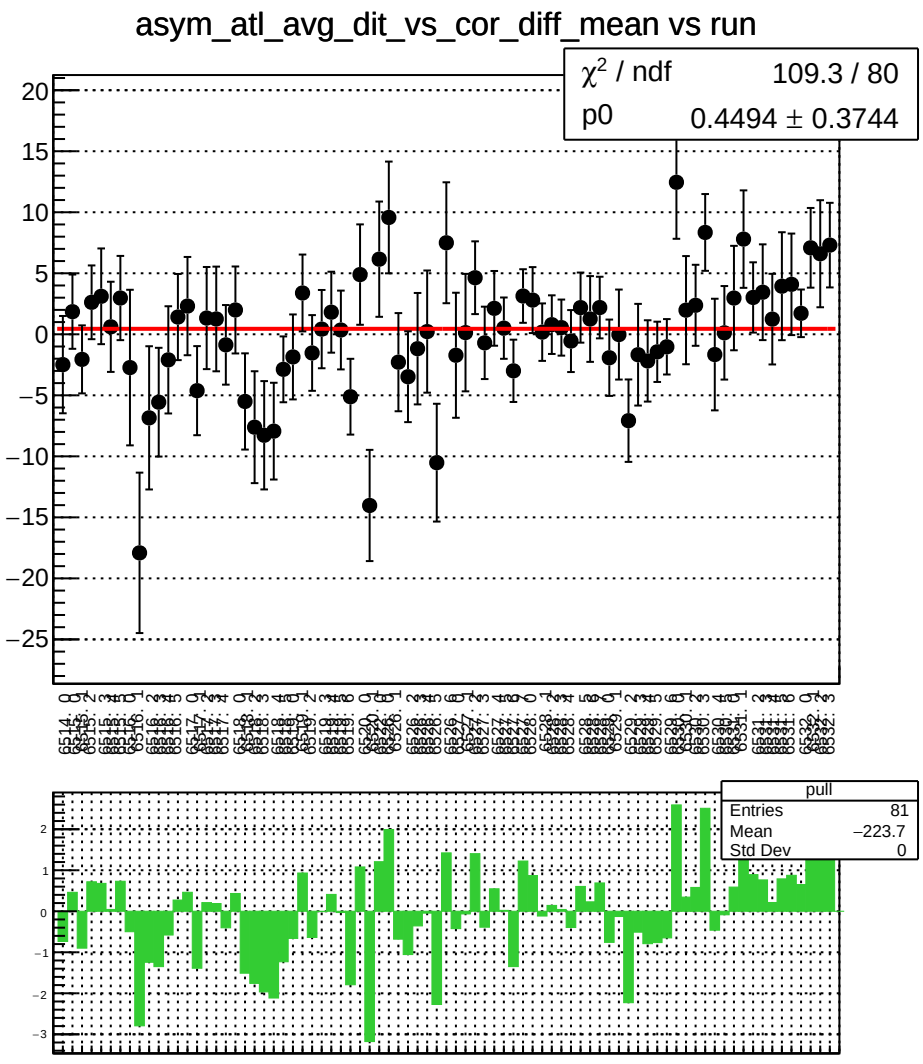

pull1D
Entries 81
Mean 0.01579
Std Dev 1.006

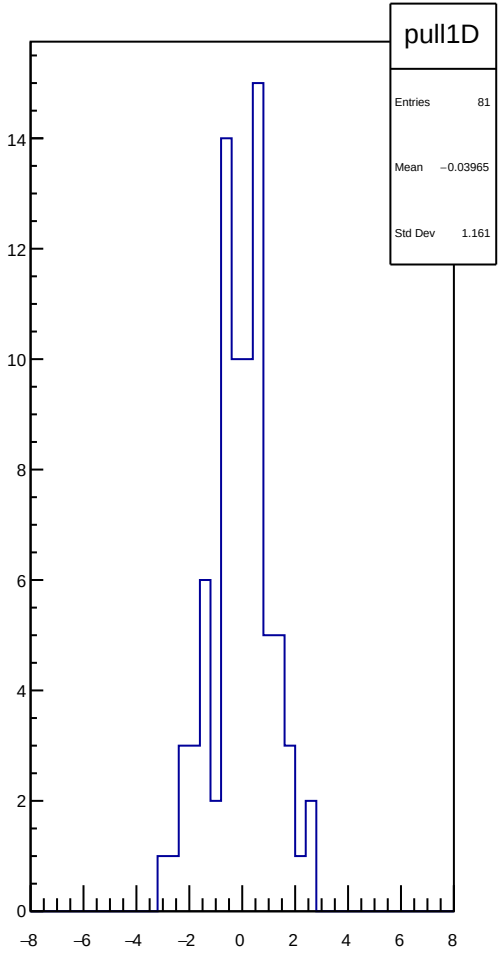

asym_atl_avg_rms vs run
χ² / ndf 2.265e+04 / 80
p0 5485 ± 4.422
7500
7000
6500
6000
5500
5000
4500
4000

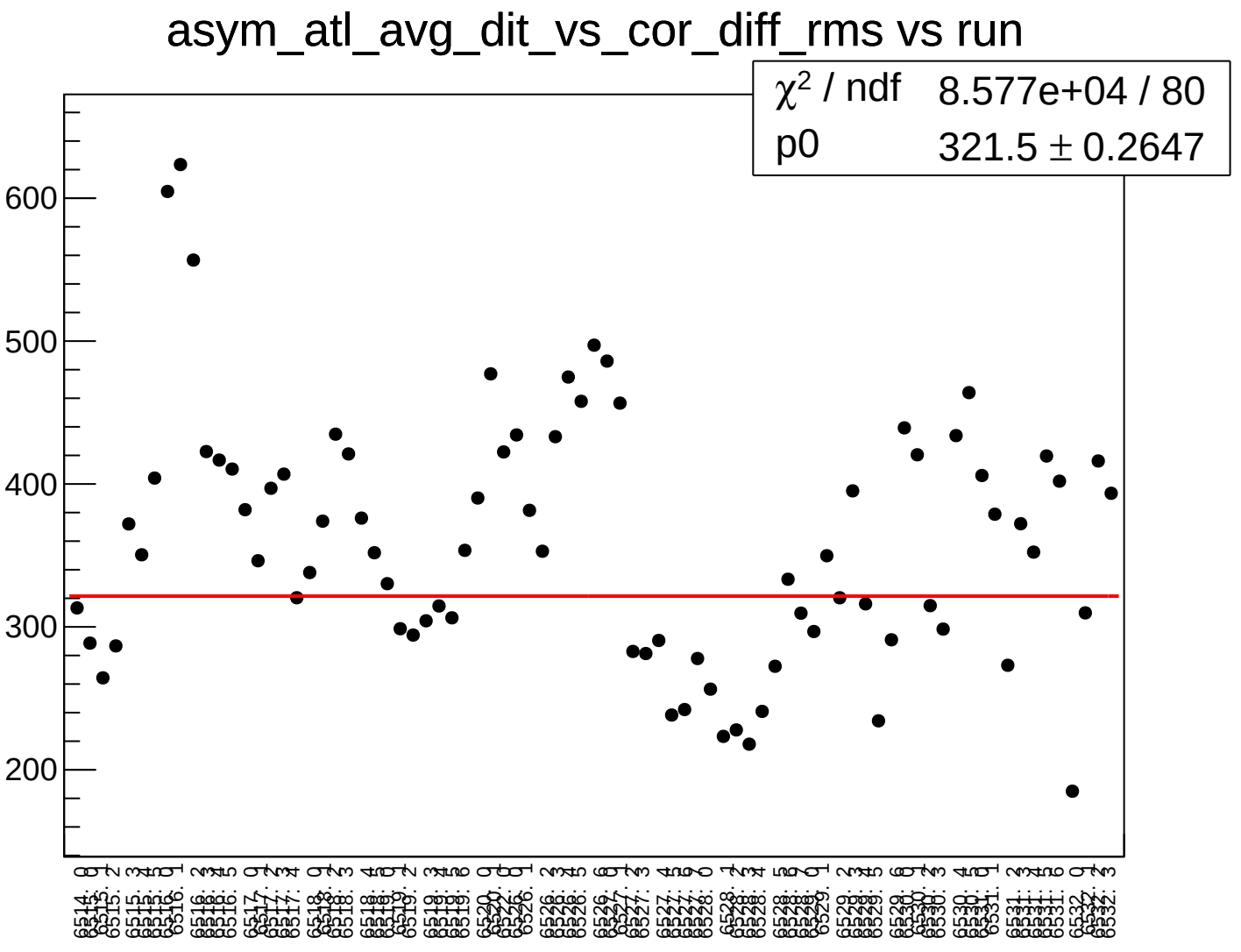

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 95.19 / 80
p0 −9.507e−14 ± 1.244e−13
0.01
0
−0.01
−0.02
−0.03
pull
Entries 81
Mean 101
Std Dev 0
2
1
0
−1
−2

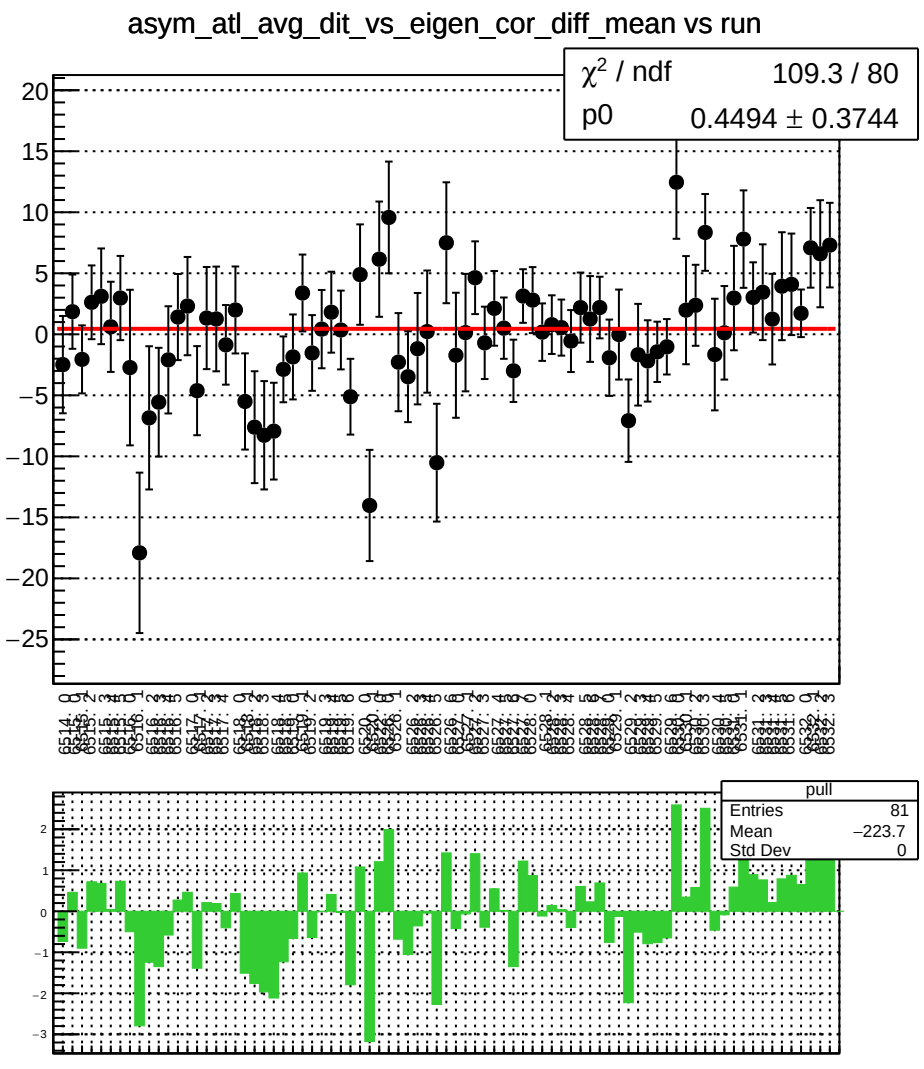

pull1D
Entries 81
Mean 0.08132
Std Dev 1.081
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

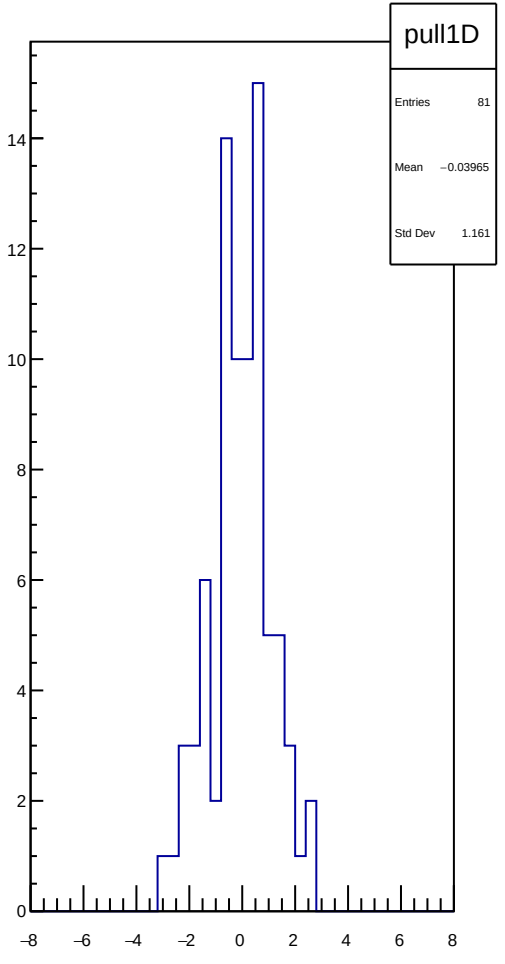

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.407e+05 / 80
p0 7.468e−11 ± 8.8e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

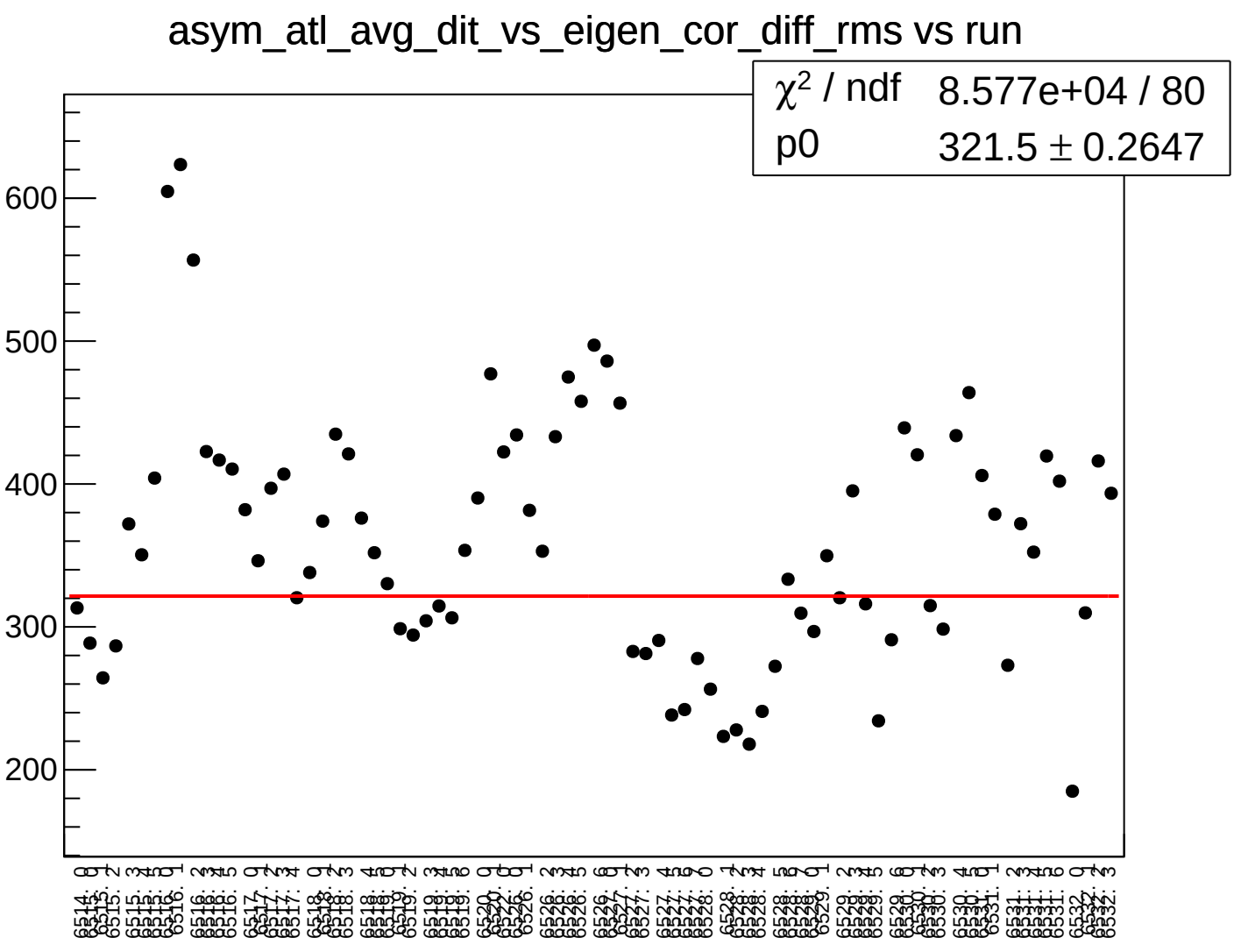

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 109.3 / 80
p0 0.4494 ± 0.3744
pull
Entries 81
Mean −223.7
Std Dev 0

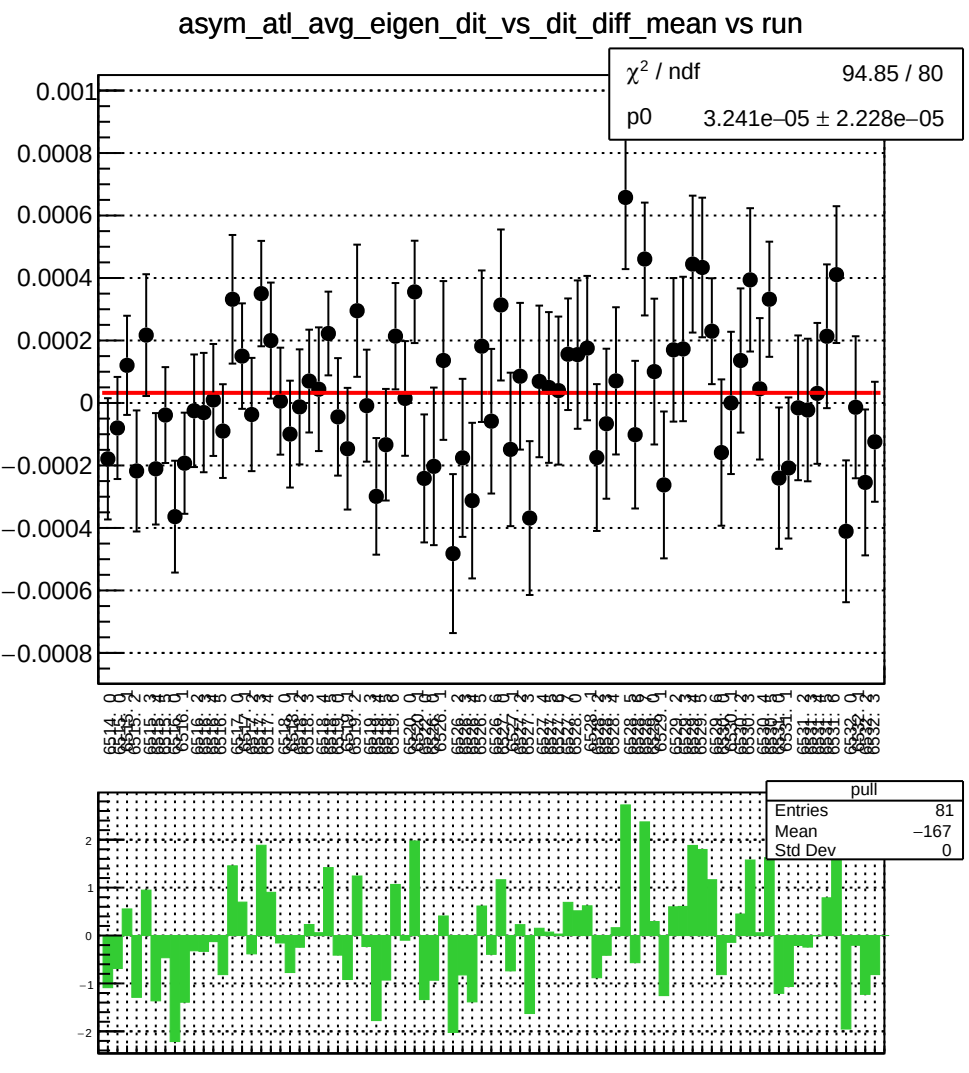

pull1D
Entries 81
Mean −0.03965
Std Dev 1.161

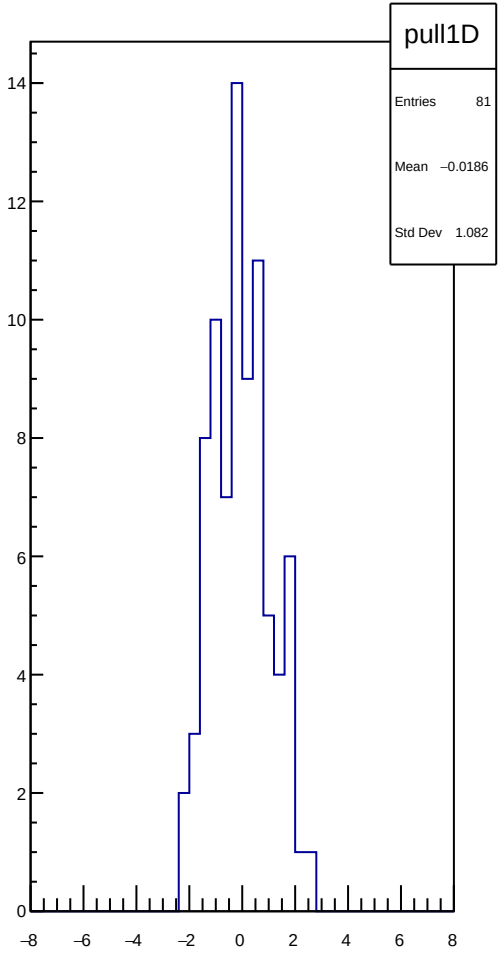

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.577e+04 / 80
p0 321.5 ± 0.2647
600
500
400
300
200

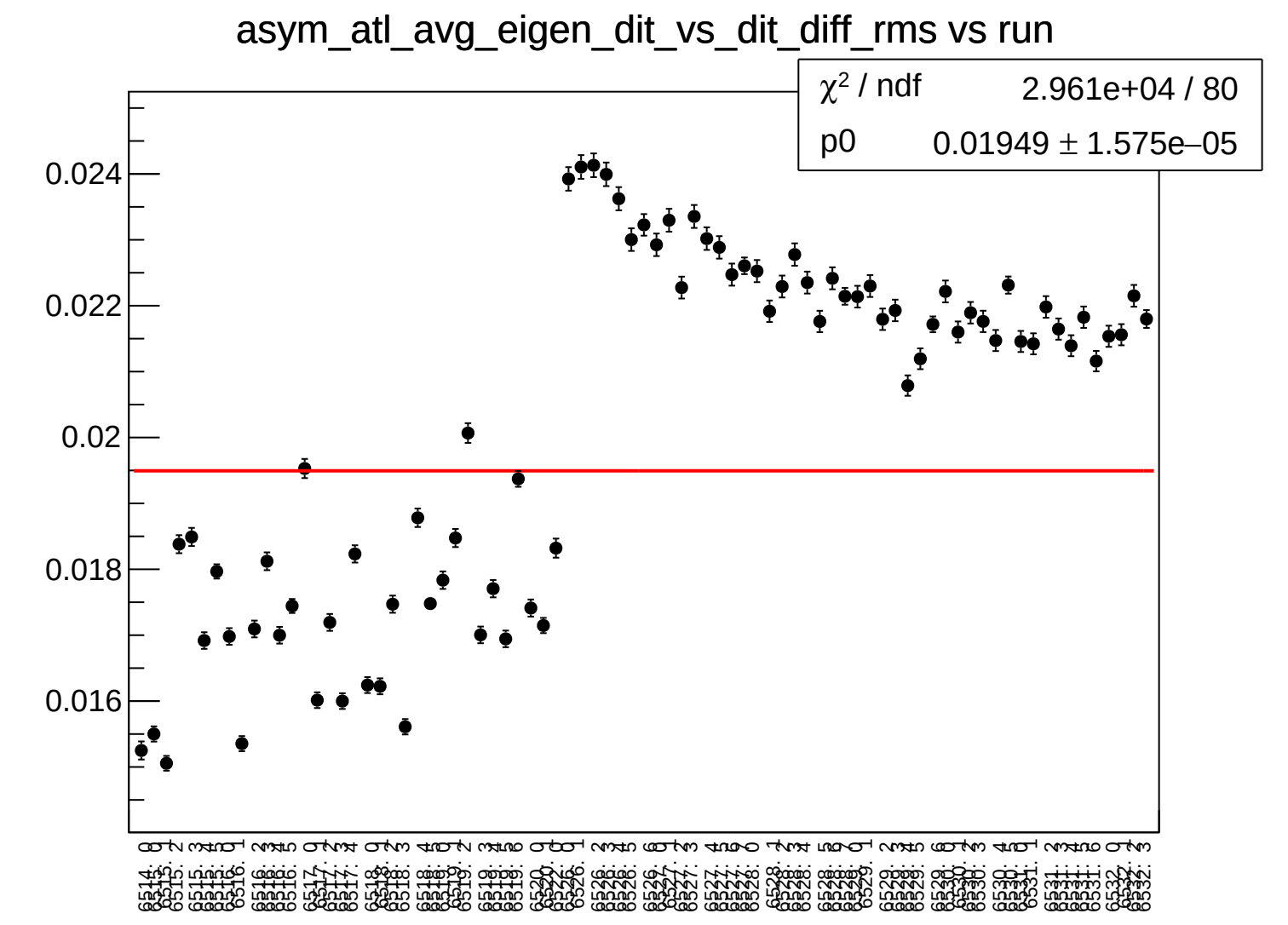

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.3 / 80
p0 0.4494 ± 0.3744
pull
Entries 81
Mean −223.7
Std Dev 0

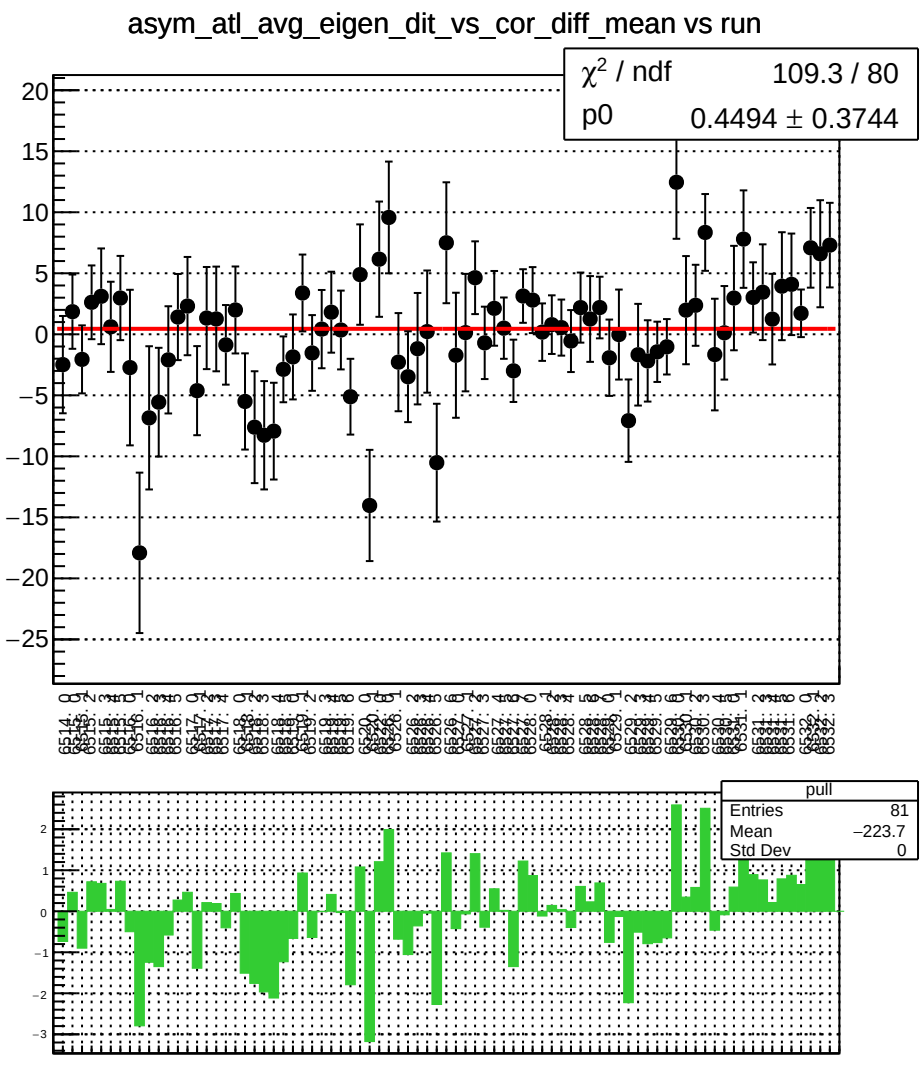

pull1D
Entries 81
Mean −0.03965
Std Dev 1.161

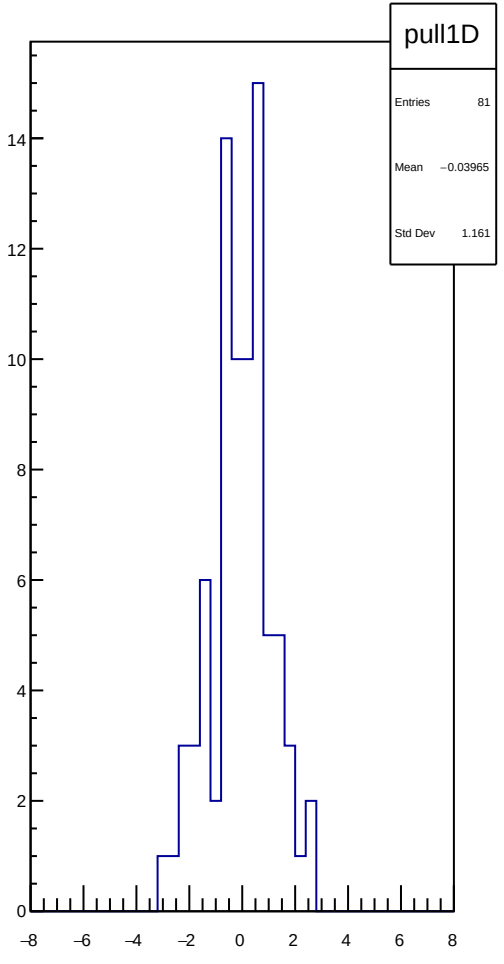

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.577e+04 / 80
p0 321.5 ± 0.2647
600
500
400
300
200

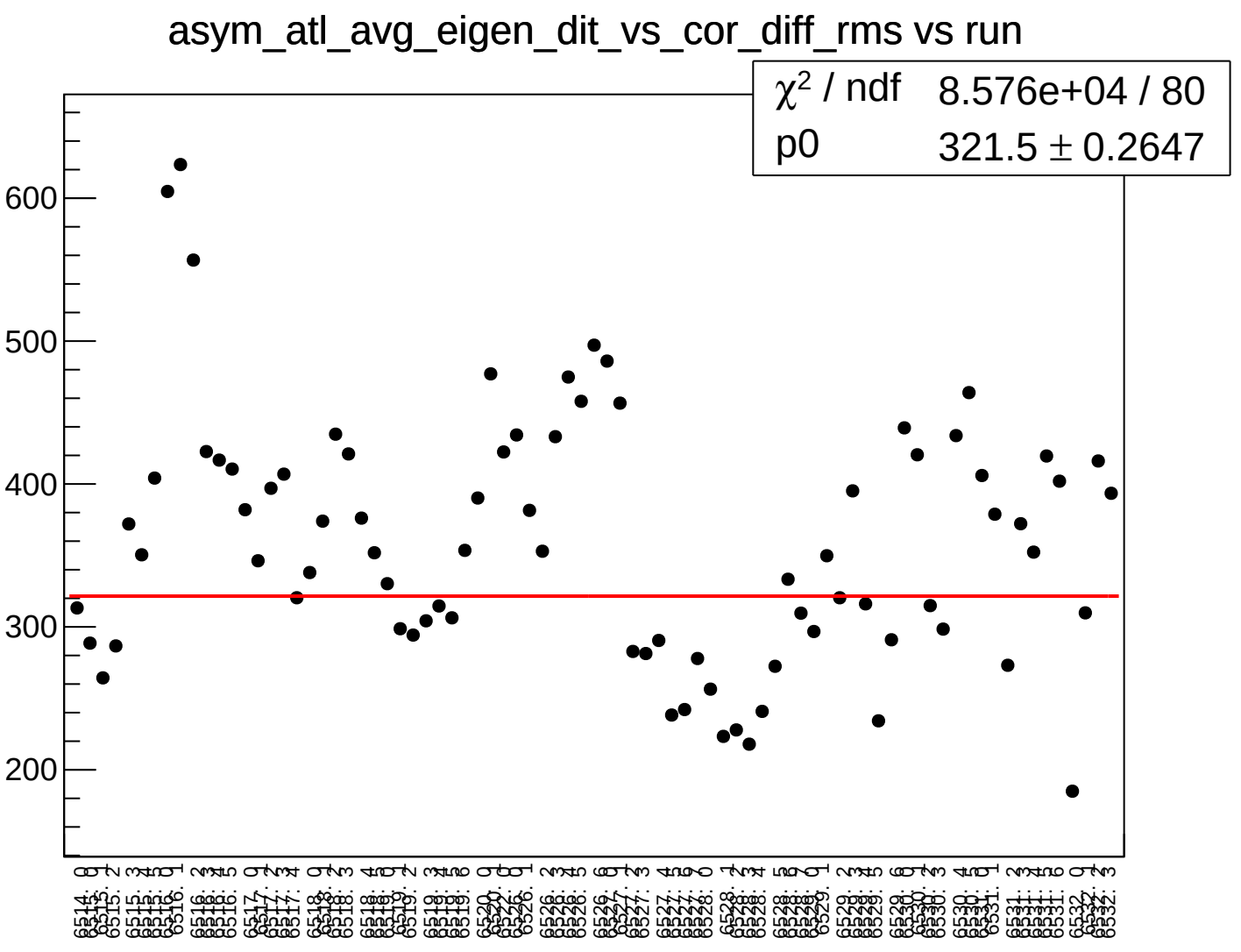

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 94.85 / 80
p0 3.241e−05 ± 2.228e−05
pull
Entries 81
Mean −167
Std Dev 0

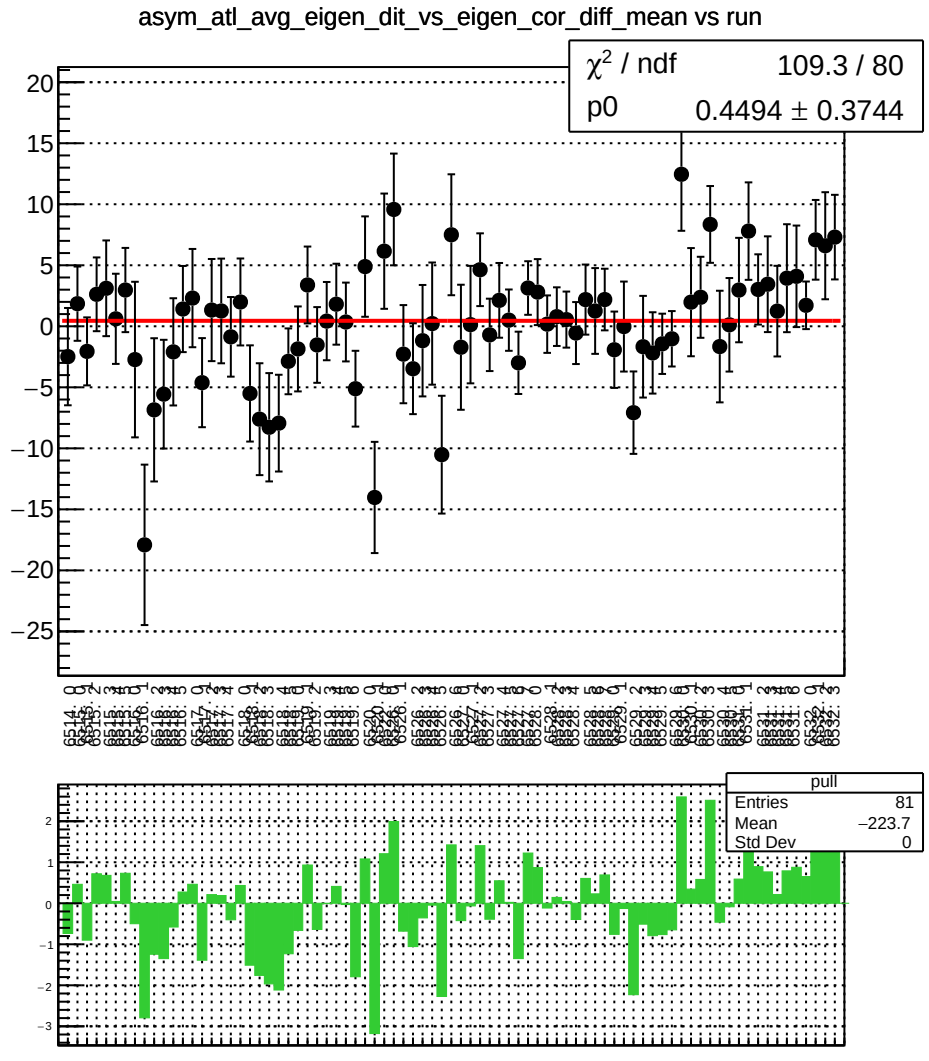

pull1D
Entries 81
Mean −0.0186
Std Dev 1.082

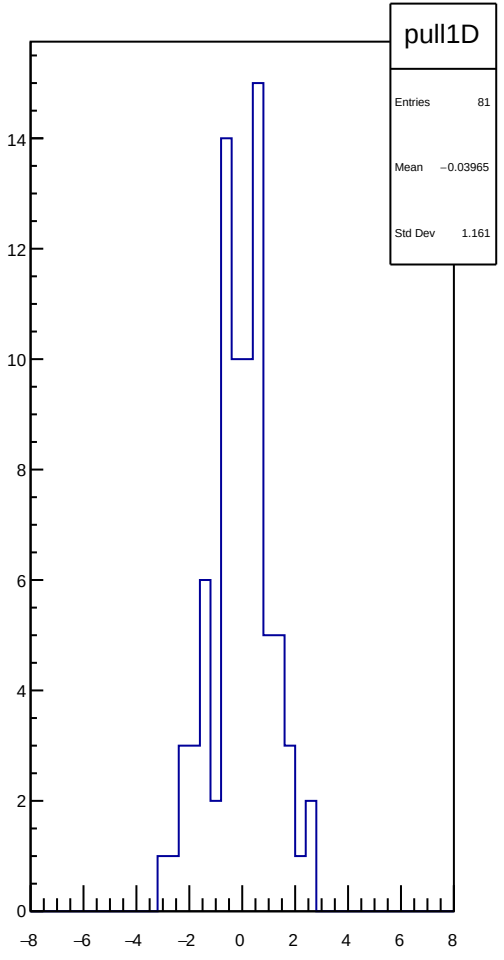

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.961e+04 / 80
p0 0.01949 ± 1.575e−05
0.024
0.022
0.02
0.018
0.016

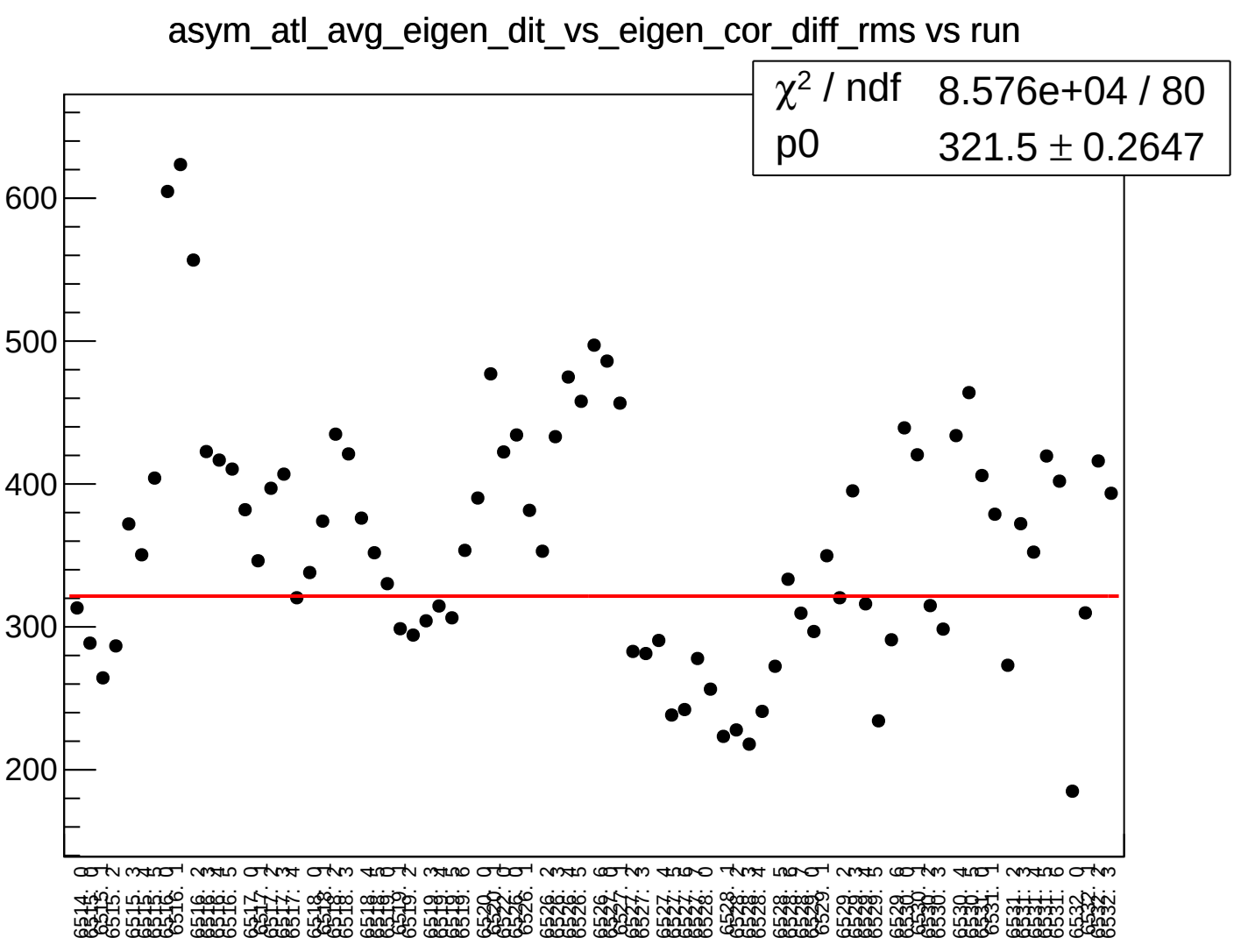

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 109.3 / 80
p0 0.4494 ± 0.3744
pull
Entries 81
Mean −223.7
Std Dev 0

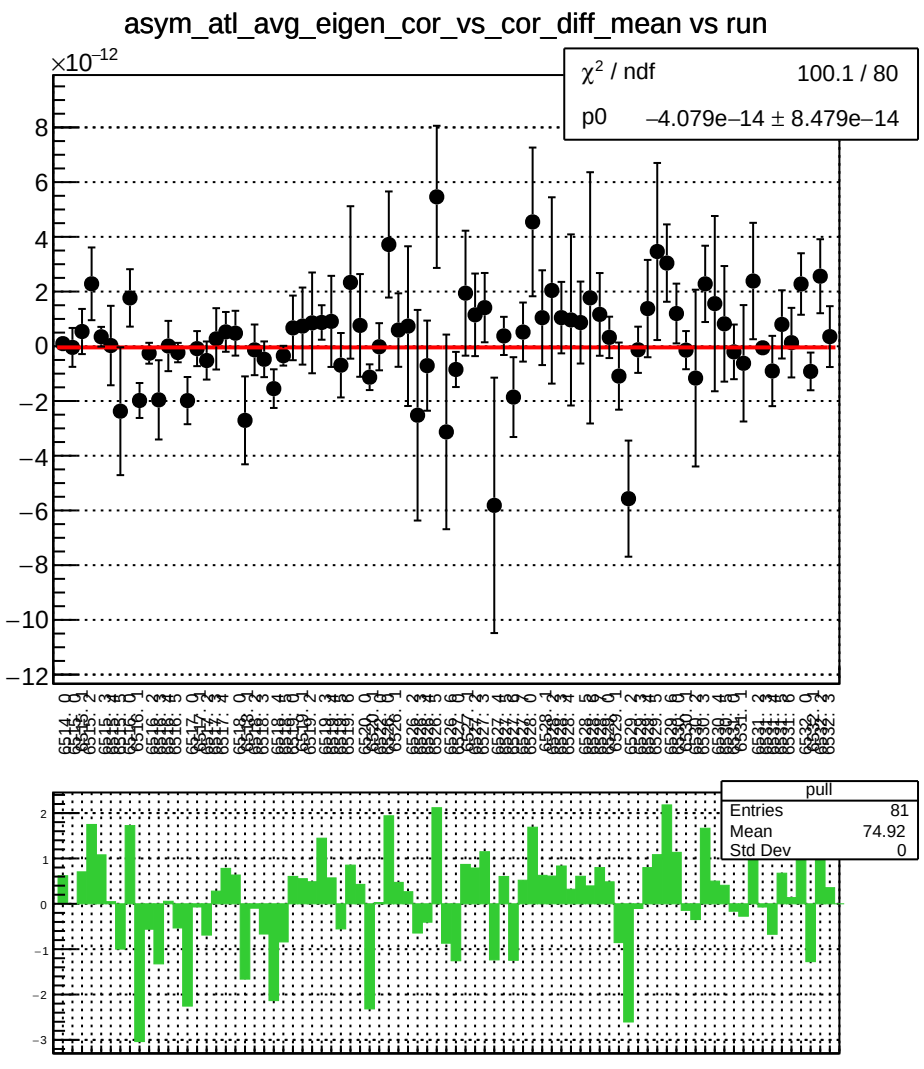

pull1D
Entries 81
Mean −0.03965
Std Dev 1.161

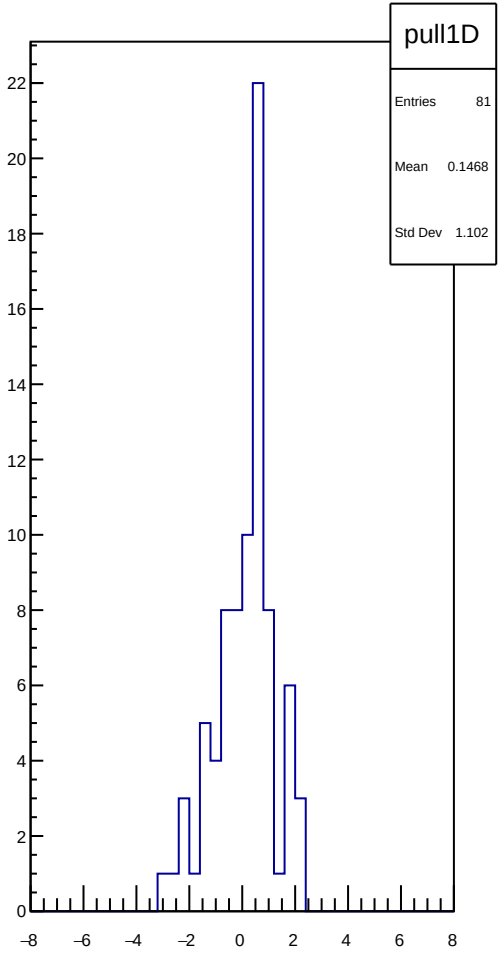

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.576e+04 / 80
p0 321.5 ± 0.2647
600
500
400
300
200

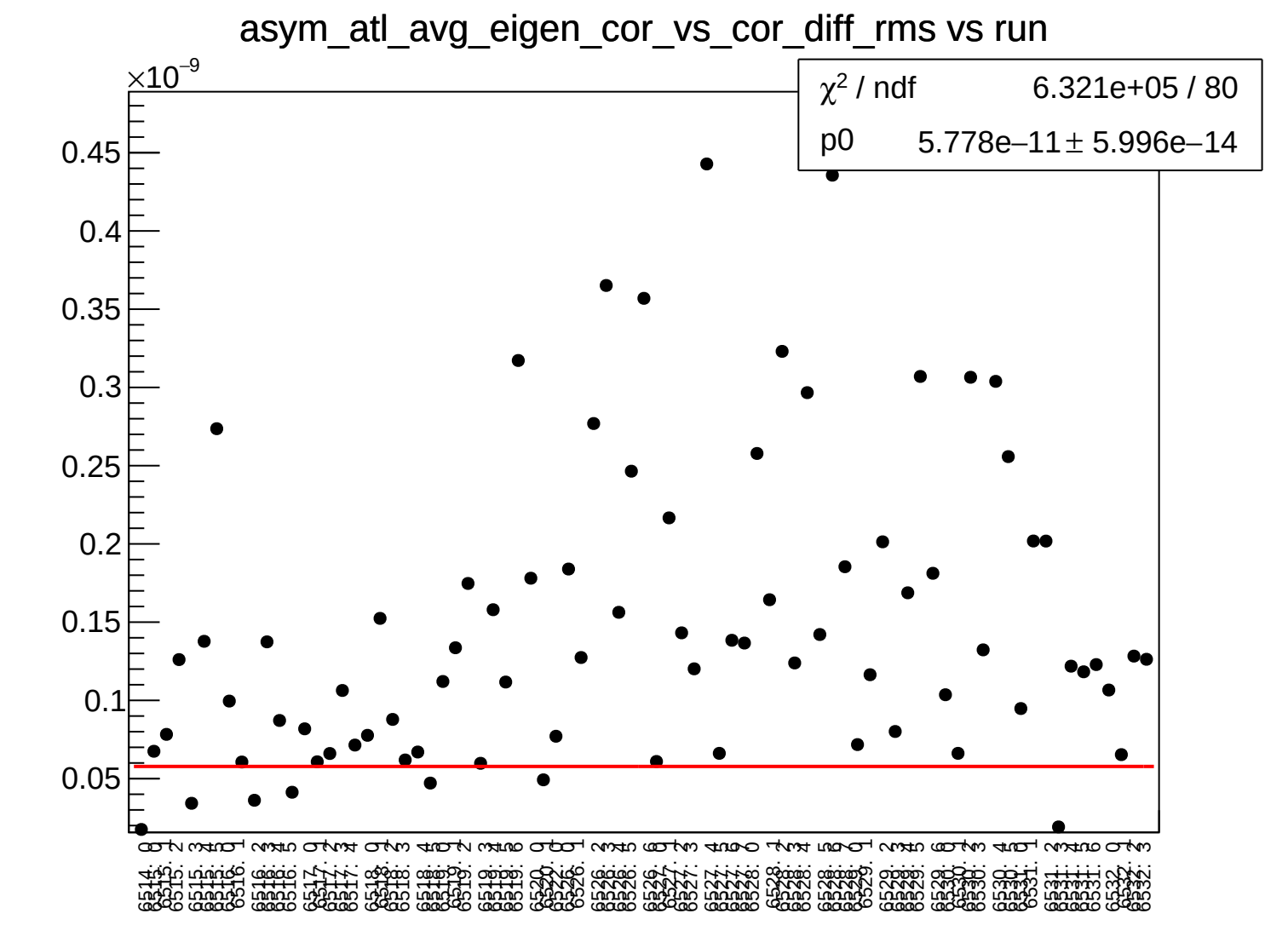

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.3 / 80
p0 0.4494 ± 0.3744
pull
Entries 81
Mean −223.7
Std Dev 0

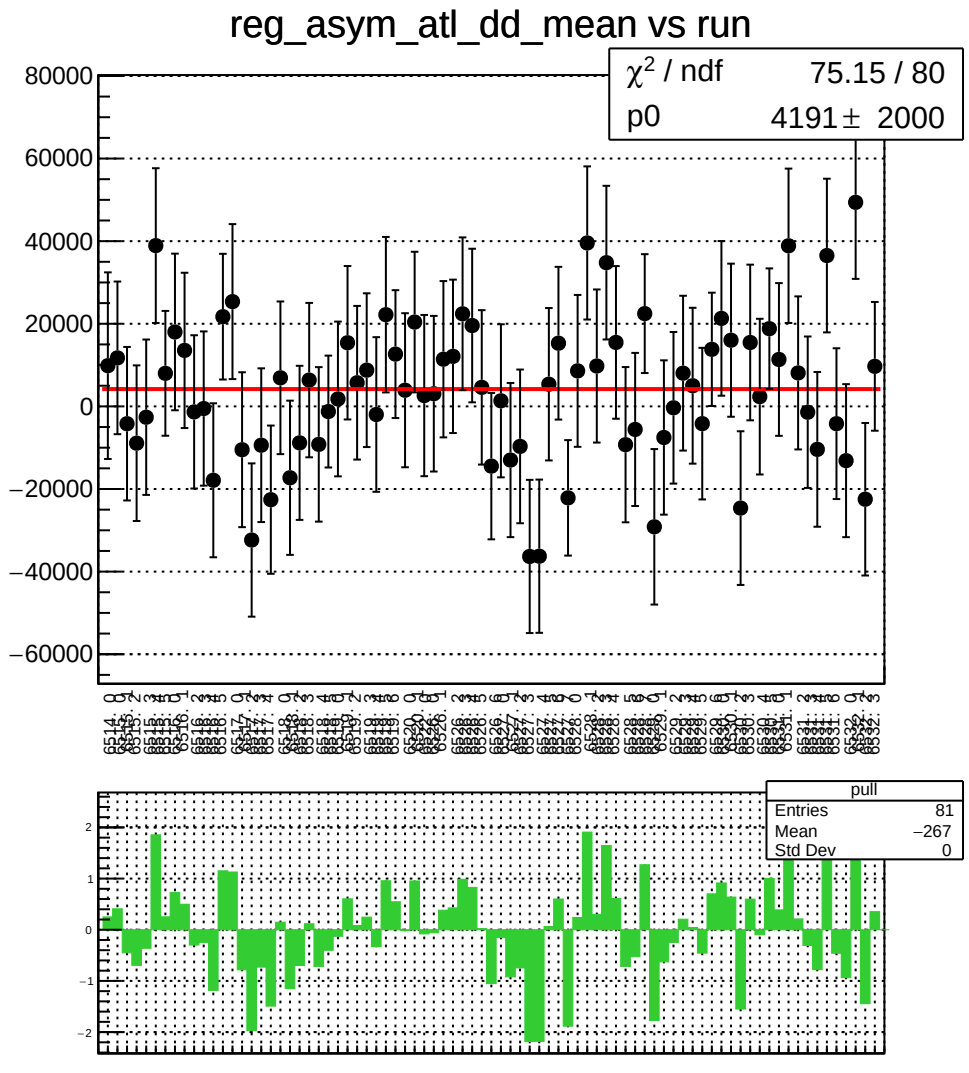

pull1D
Entries 81
Mean −0.03965
Std Dev 1.161

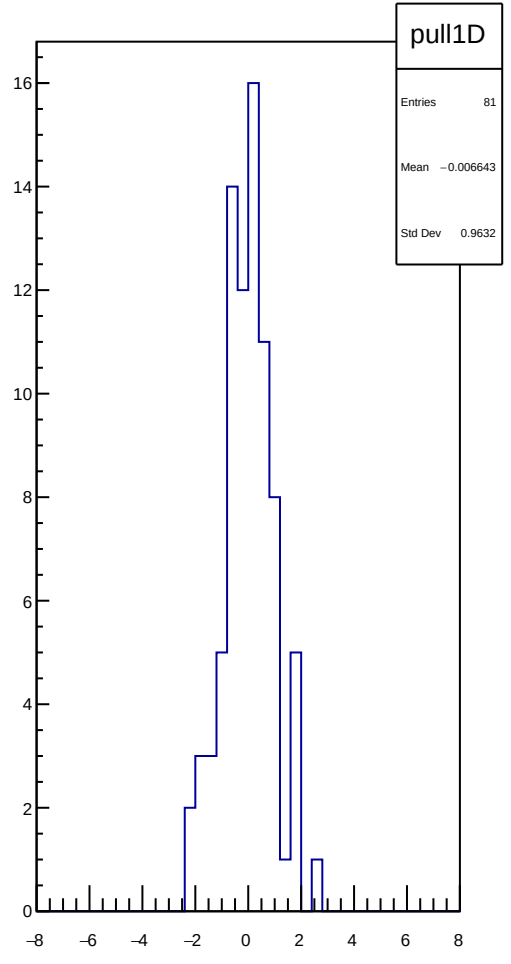

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.576e+04 / 80
p0 321.5 ± 0.2647
600
500
400
300
200

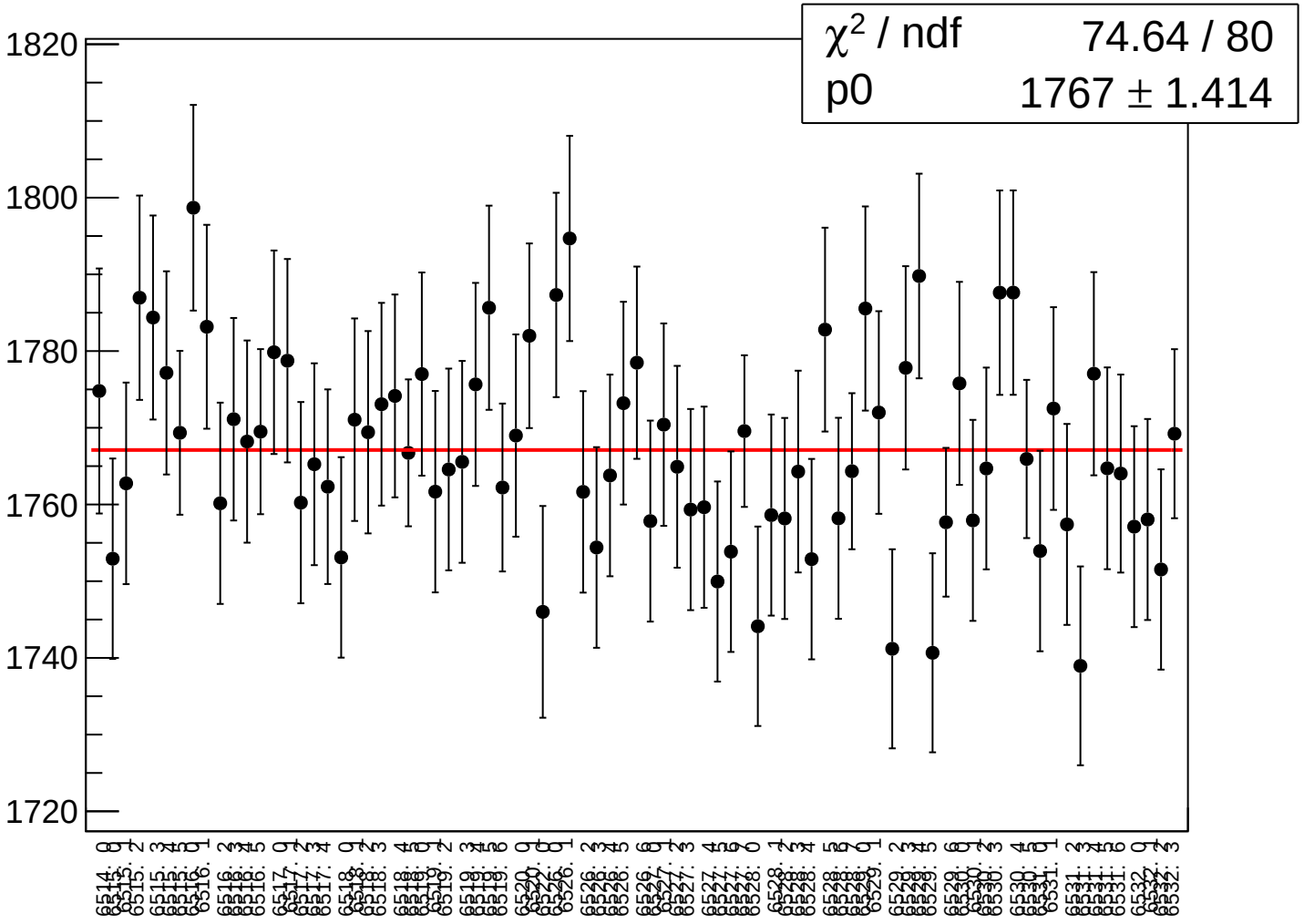

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 100.1 / 80
p0 −4.079e−14 ± 8.479e−14
pull
Entries 81
Mean 74.92
Std Dev 0

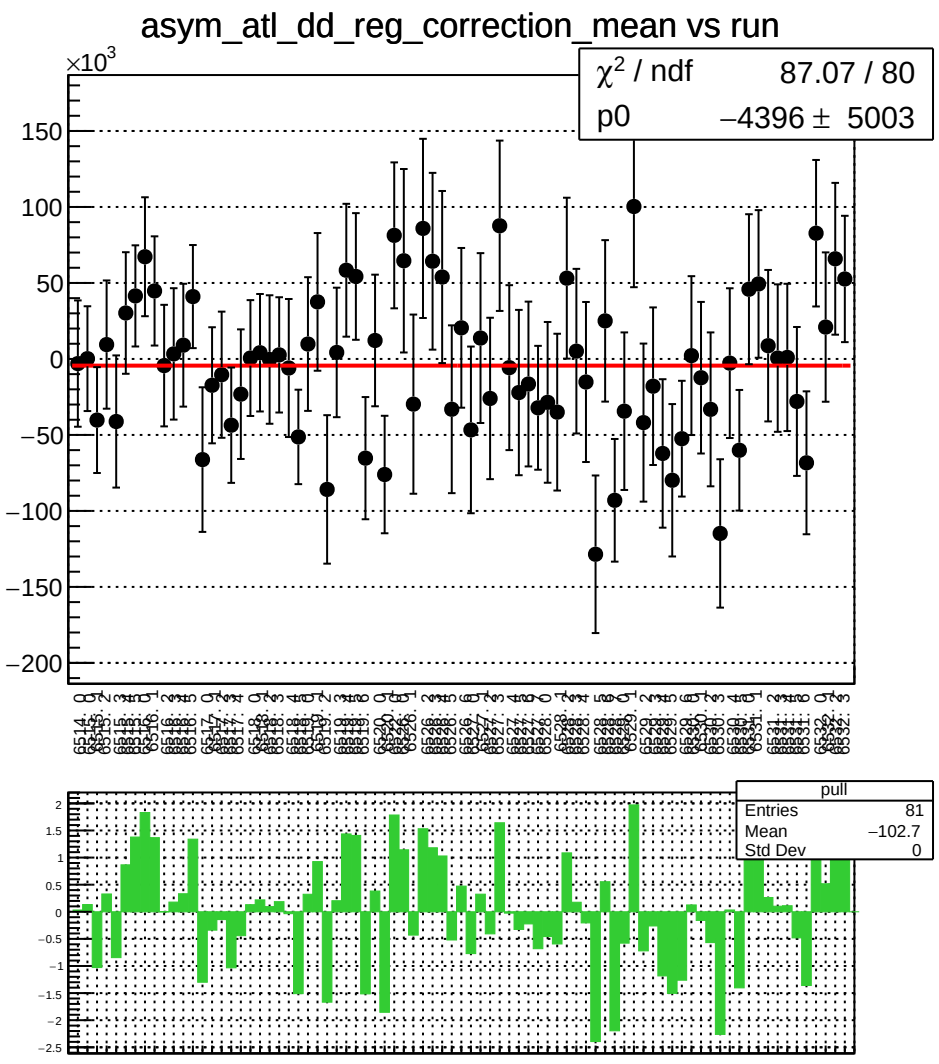

pull1D
Entries 81
Mean 0.1468
Std Dev 1.102

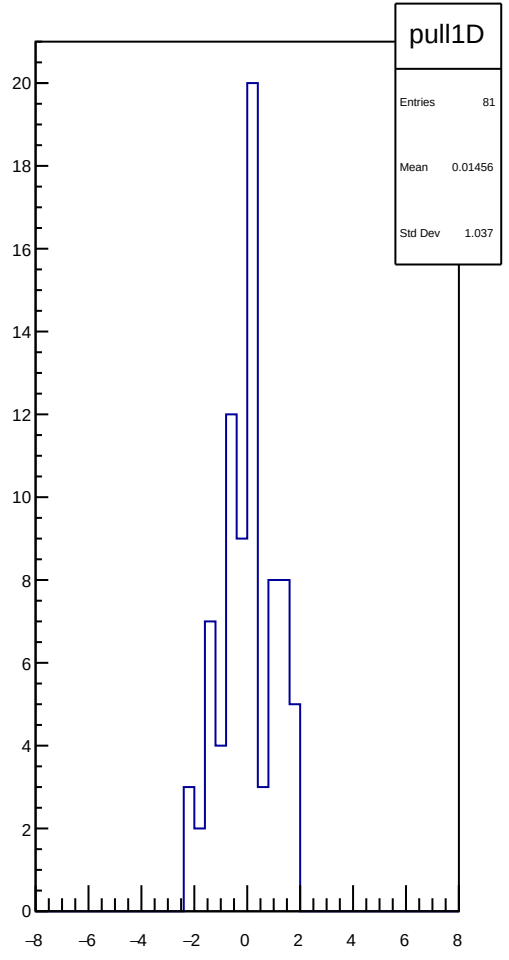

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.321e+05 / 80
p0 5.778e−11 ± 5.996e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

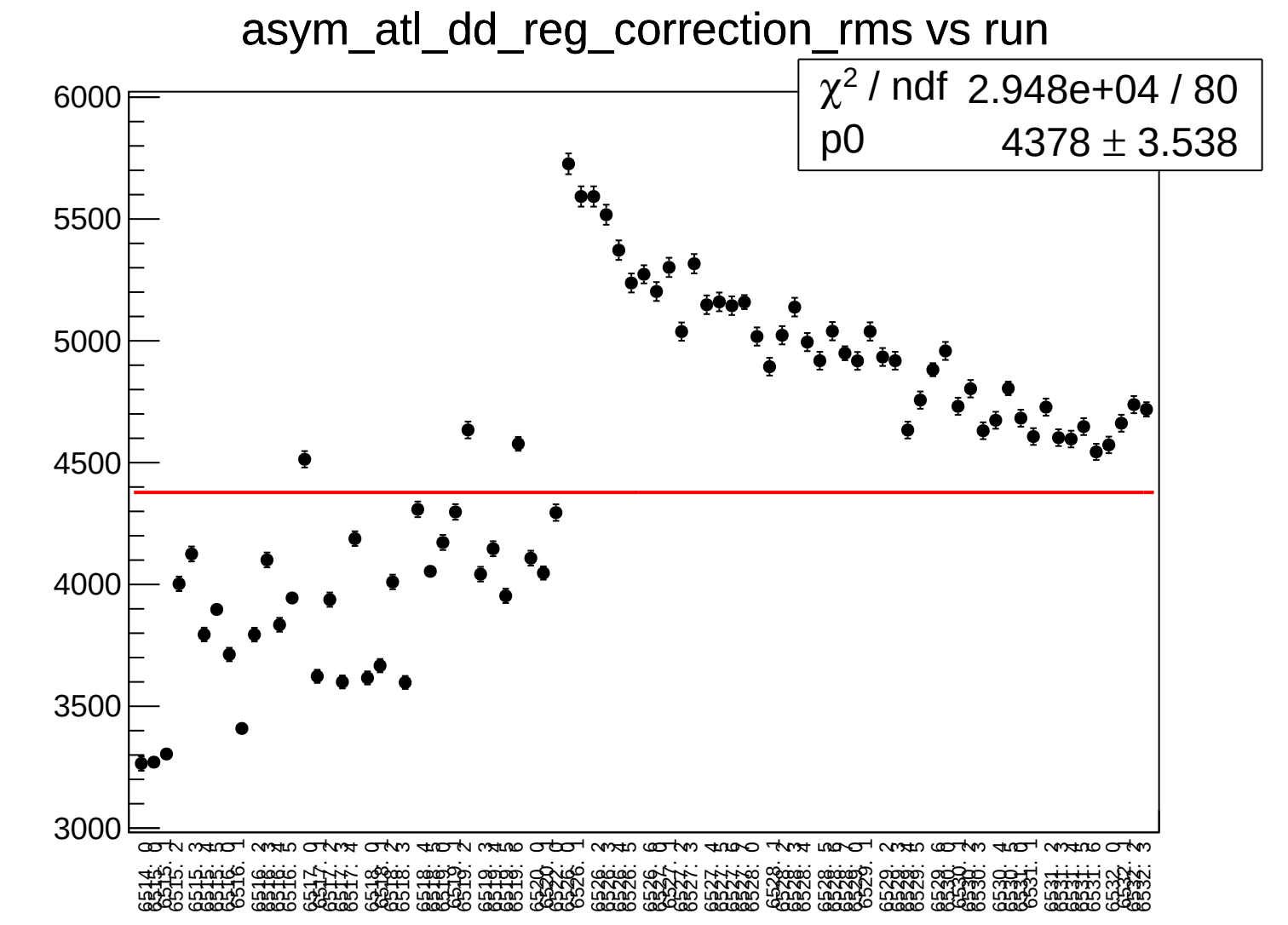

reg_asym_atl_dd_mean vs run
χ² / ndf 75.15 / 80
p0 4191 ± 2000
pull
Entries 81
Mean −267
Std Dev 0

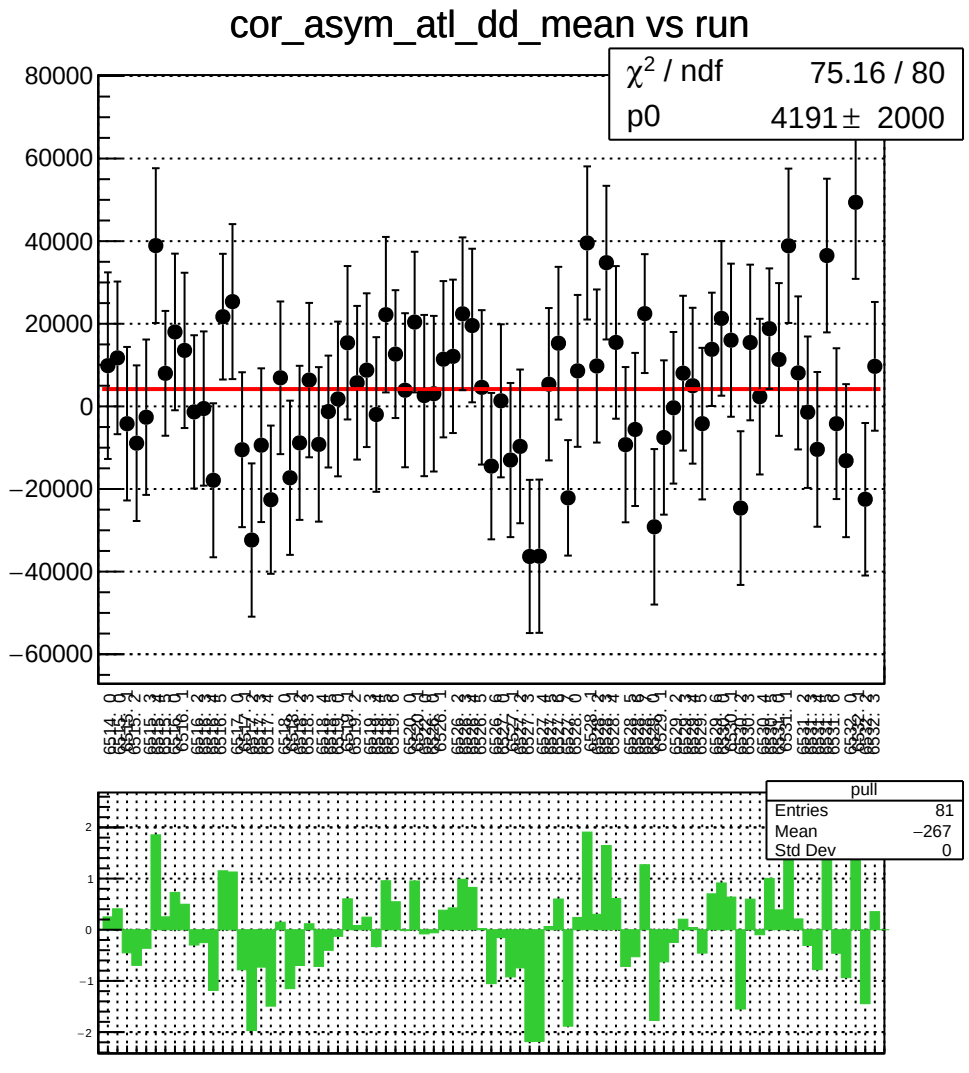

pull1D
Entries 81
Mean −0.006643
Std Dev 0.9632

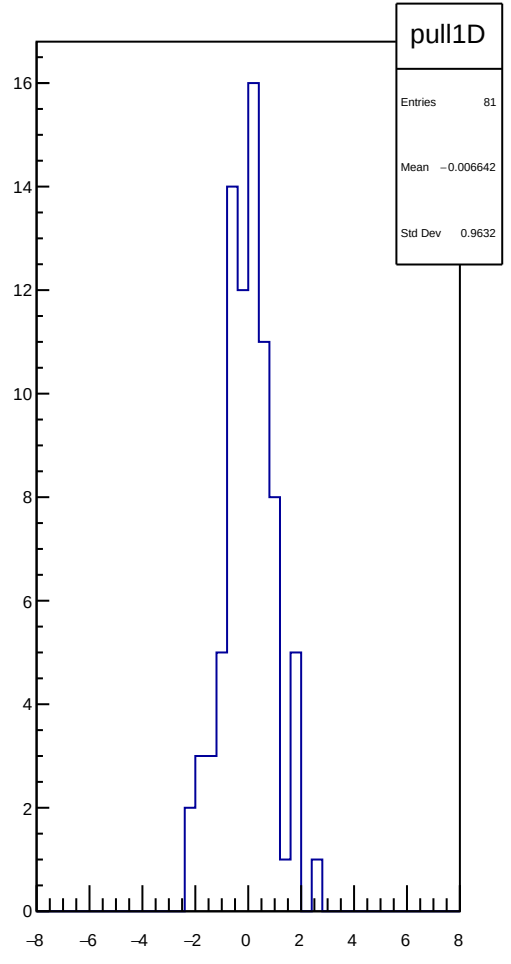

reg_asym_atl_dd_rms vs run
χ² / ndf 74.64 / 80
p0 1767 ± 1.414
1820
1800
1780
1760
1740
1720

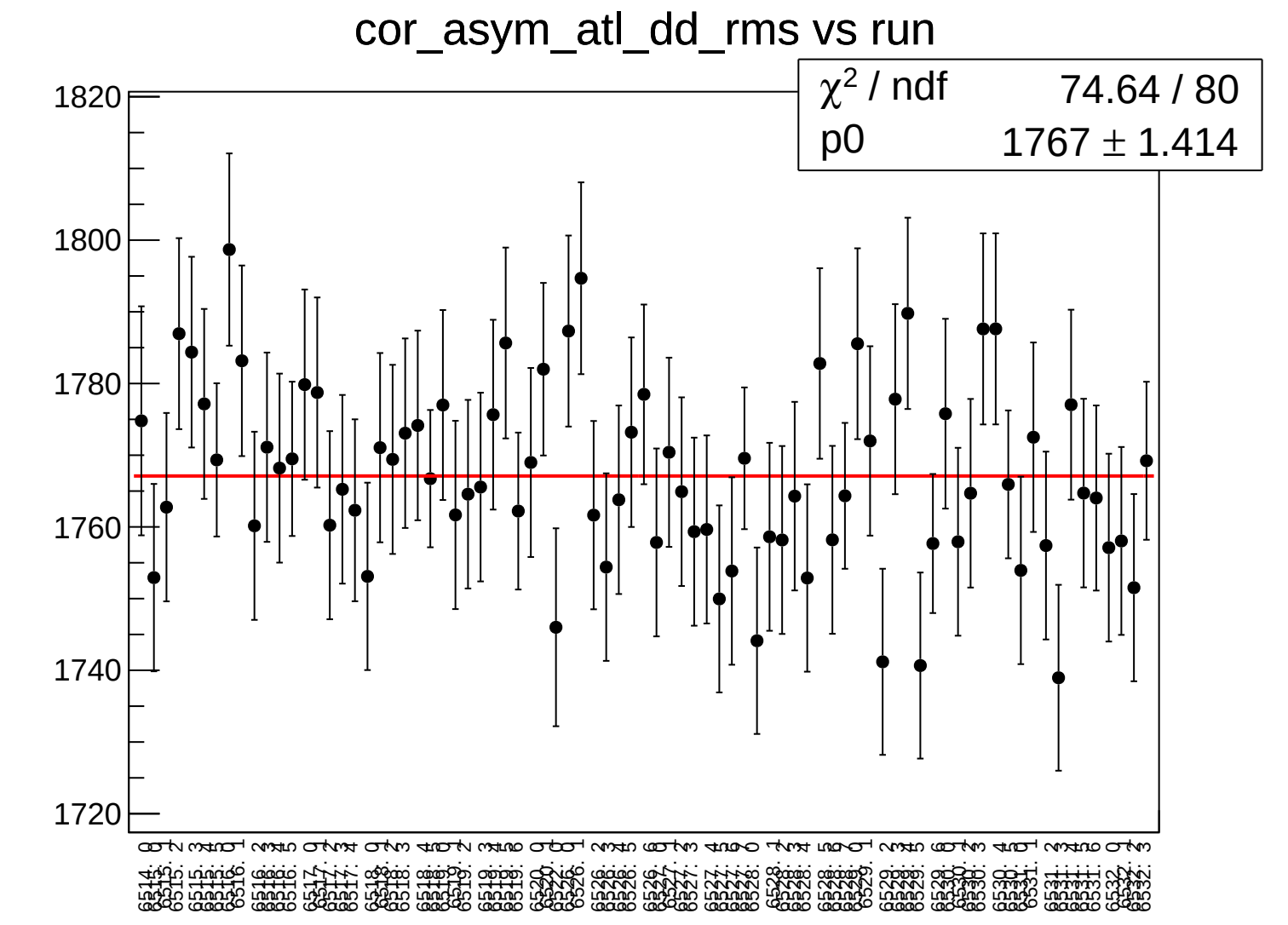

asym_atl_dd_reg_correction_mean vs run
×10^3
χ² / ndf 87.07 / 80
p0 −4396 ± 5003
150
100
50
0
−50
−100
−150
−200
pull
Entries 81
Mean −102.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

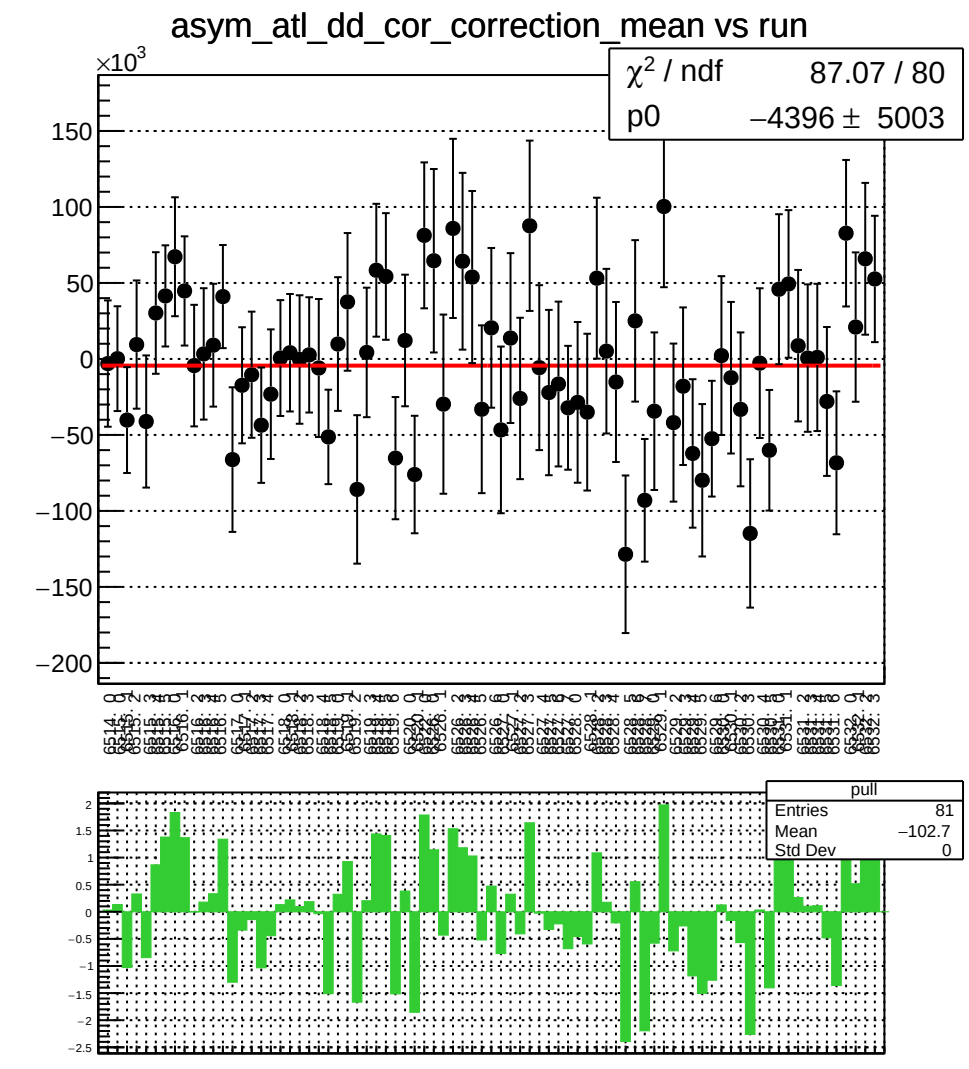

pull1D
Entries 81
Mean 0.01456
Std Dev 1.037
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

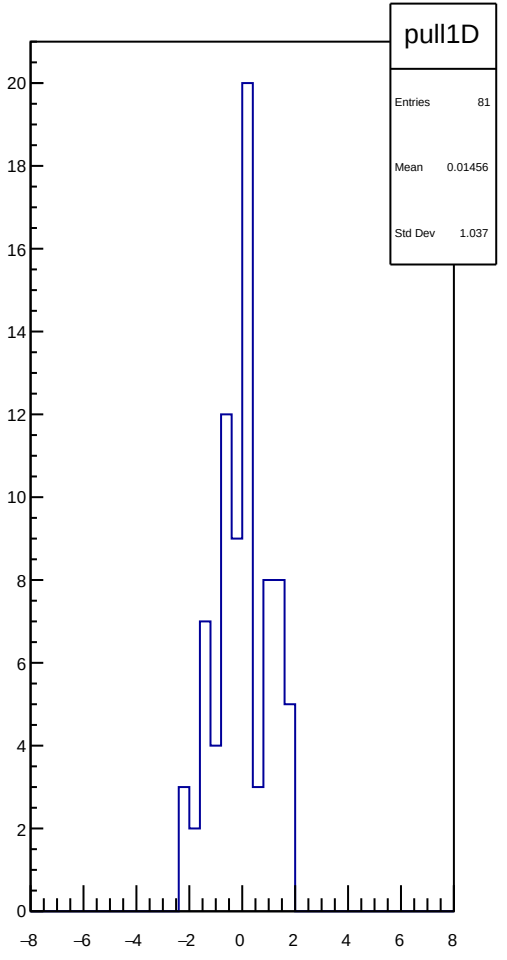

asym_atl_dd_reg_correction_rms vs run
χ² / ndf 2.948e+04 / 80
p0 4378 ± 3.538
6000
5500
5000
4500
4000
3500
3000

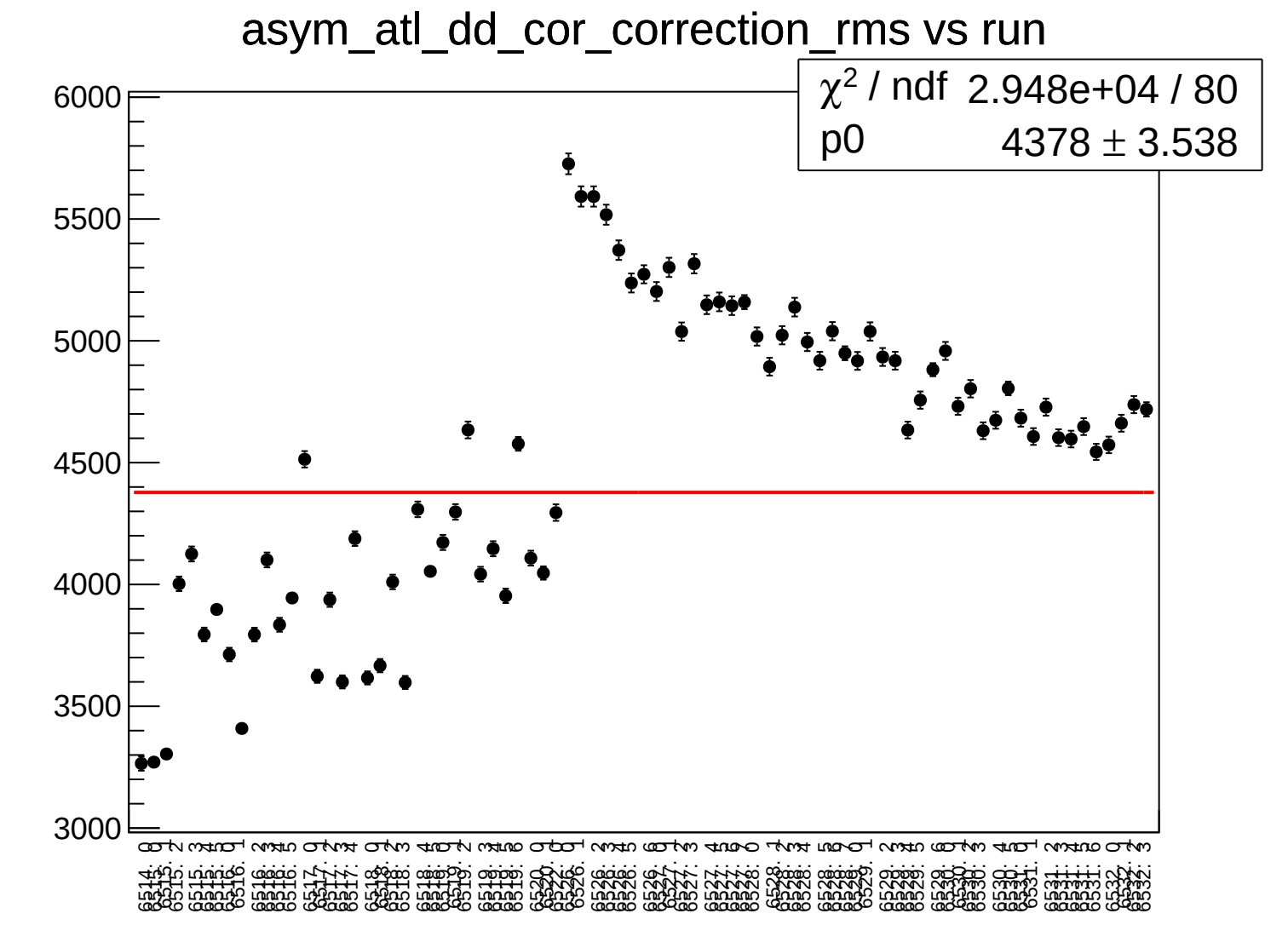

cor_asym_atl_dd_mean vs run
χ² / ndf 75.16 / 80
p0 4191 ± 2000
pull
Entries 81
Mean −267
Std Dev 0

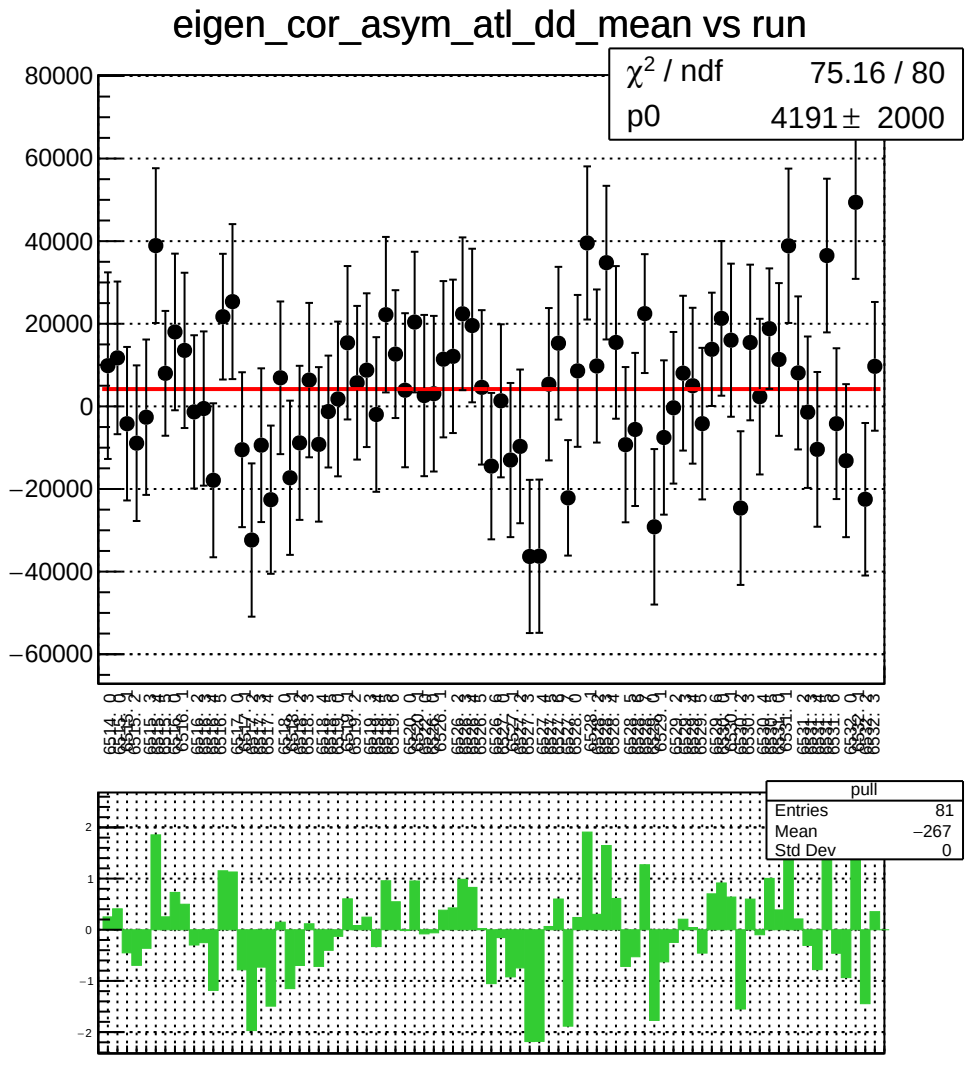

pull1D
Entries 81
Mean −0.006642
Std Dev 0.9632

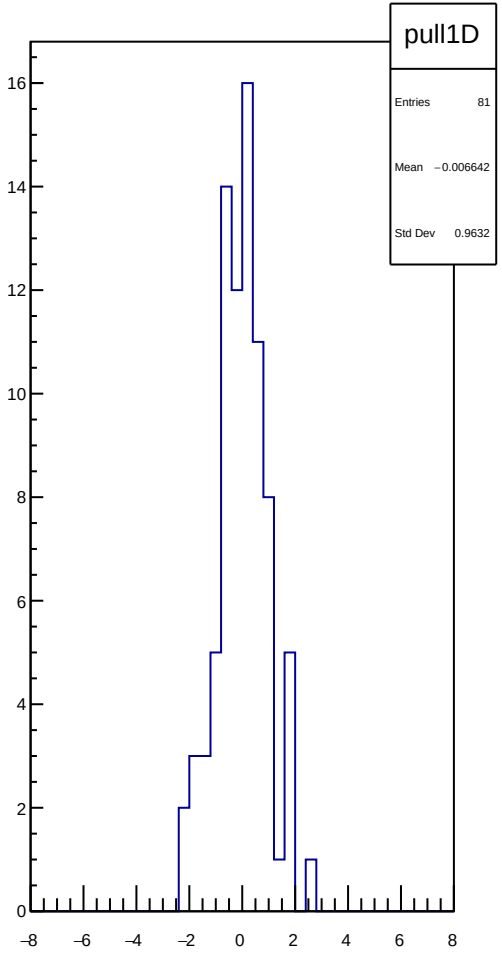

cor_asym_atl_dd_rms vs run
χ² / ndf 74.64 / 80
p0 1767 ± 1.414
1820
1800
1780
1760
1740
1720

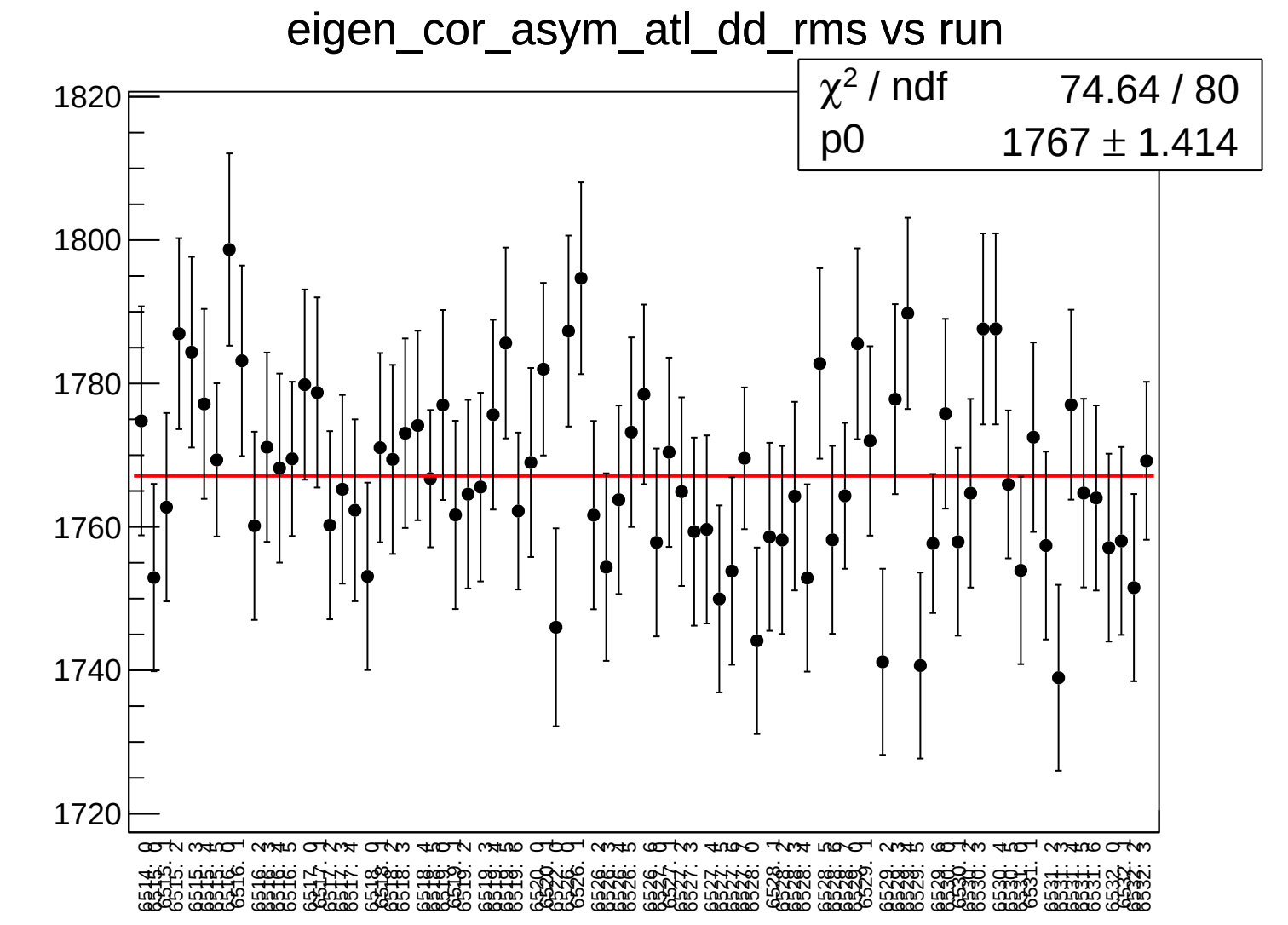

asym_atl_dd_cor_correction_mean vs run
×10^3
χ² / ndf 87.07 / 80
p0 −4396 ± 5003
150
100
50
0
−50
−100
−150
−200
pull
Entries 81
Mean −102.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

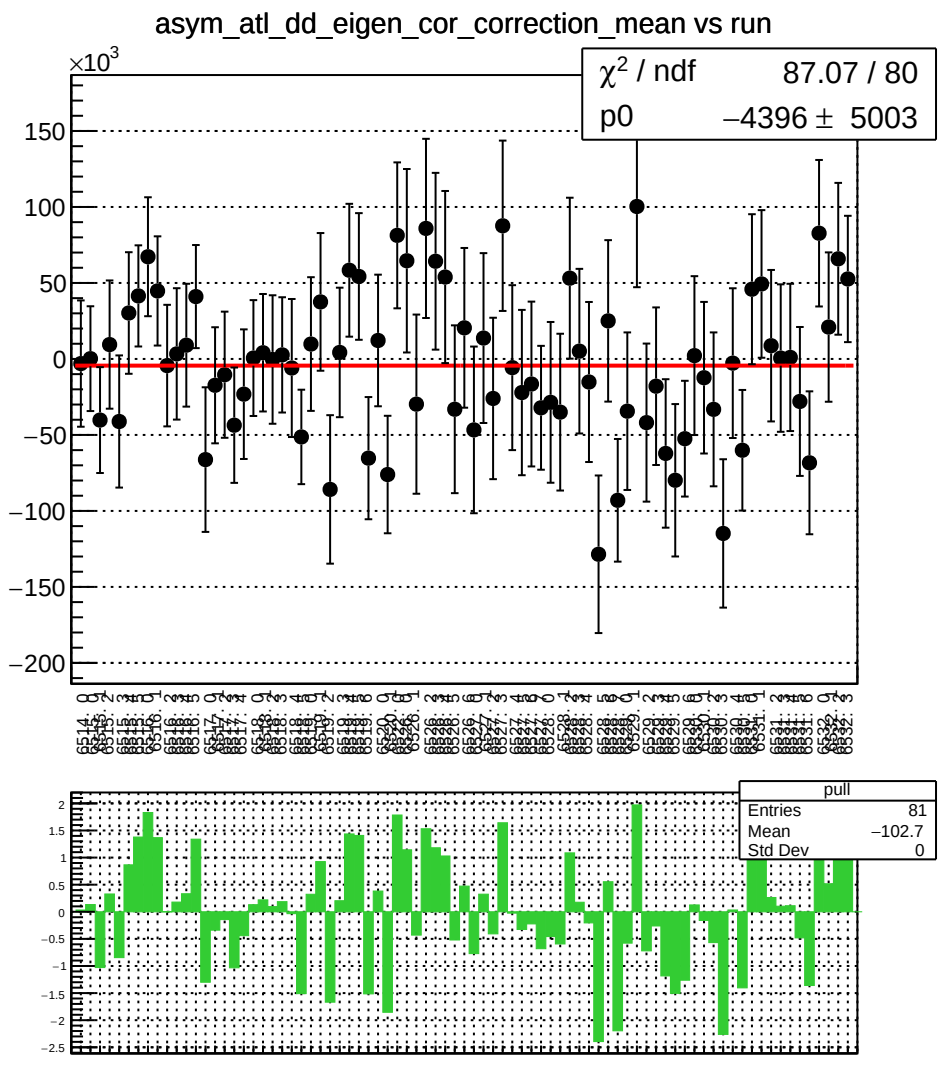

pull1D
Entries 81
Mean 0.01456
Std Dev 1.037
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

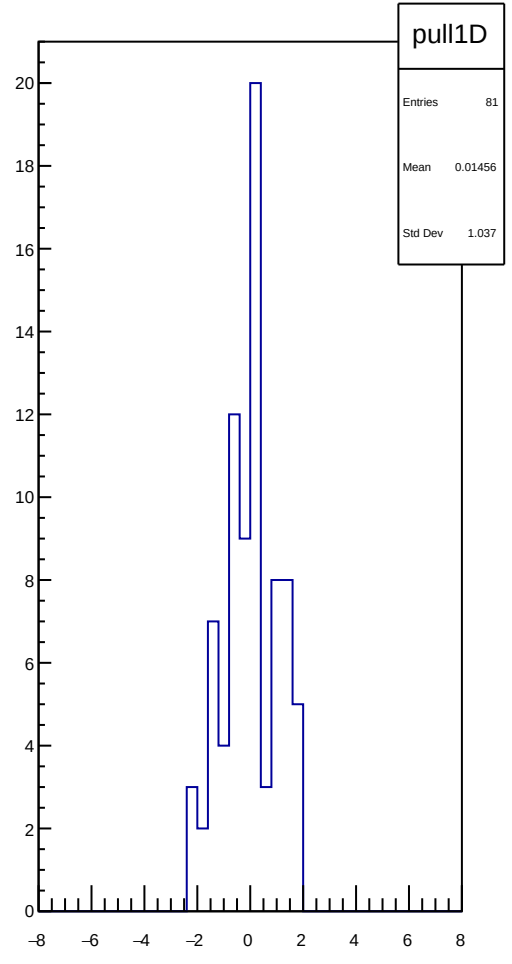

asym_atl_dd_cor_correction_rms vs run
χ² / ndf 2.948e+04 / 80
p0 4378 ± 3.538
6000
5500
5000
4500
4000
3500
3000

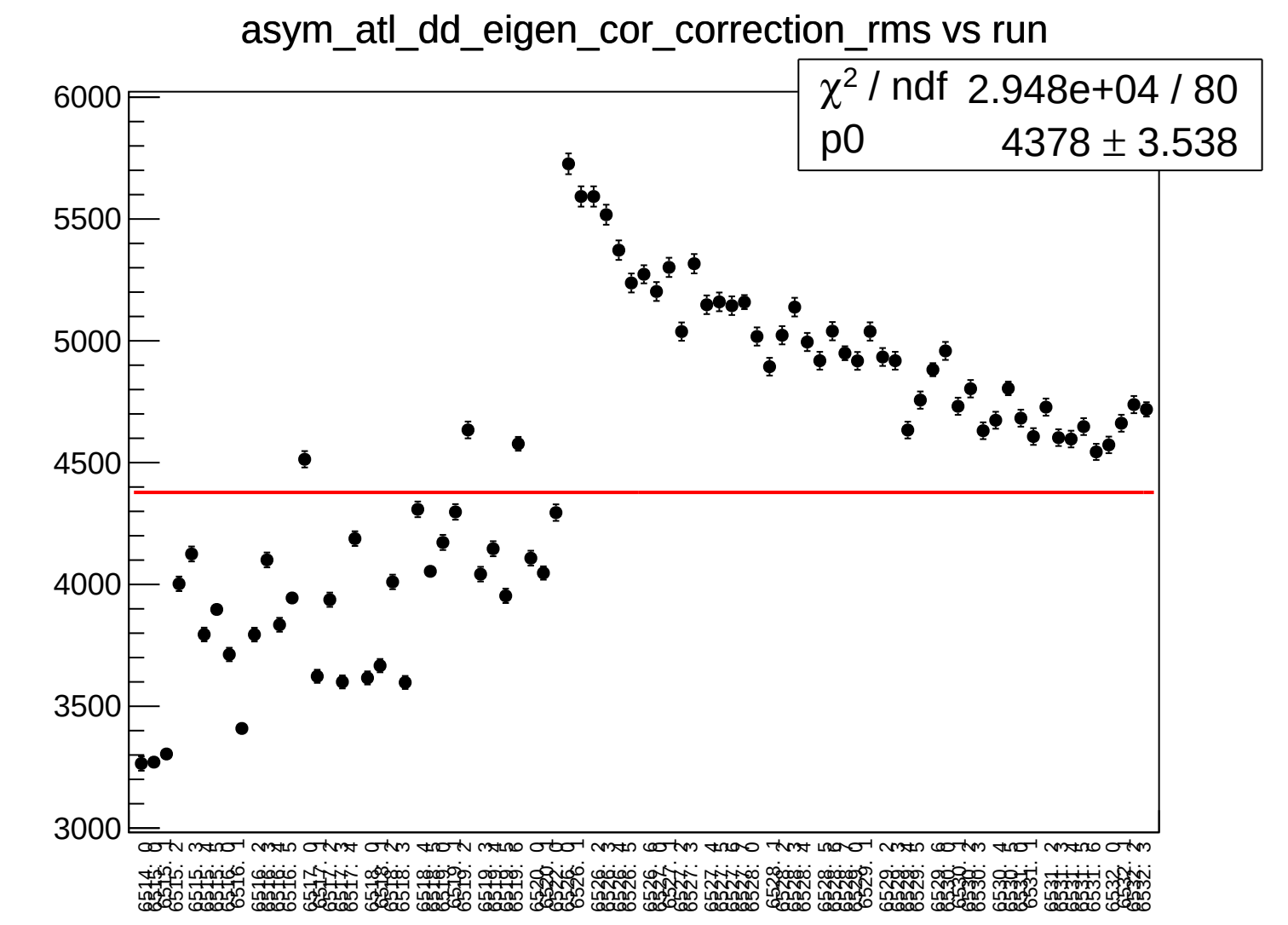

eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 75.16 / 80
p0 4191 ± 2000
pull
Entries 81
Mean −267
Std Dev 0

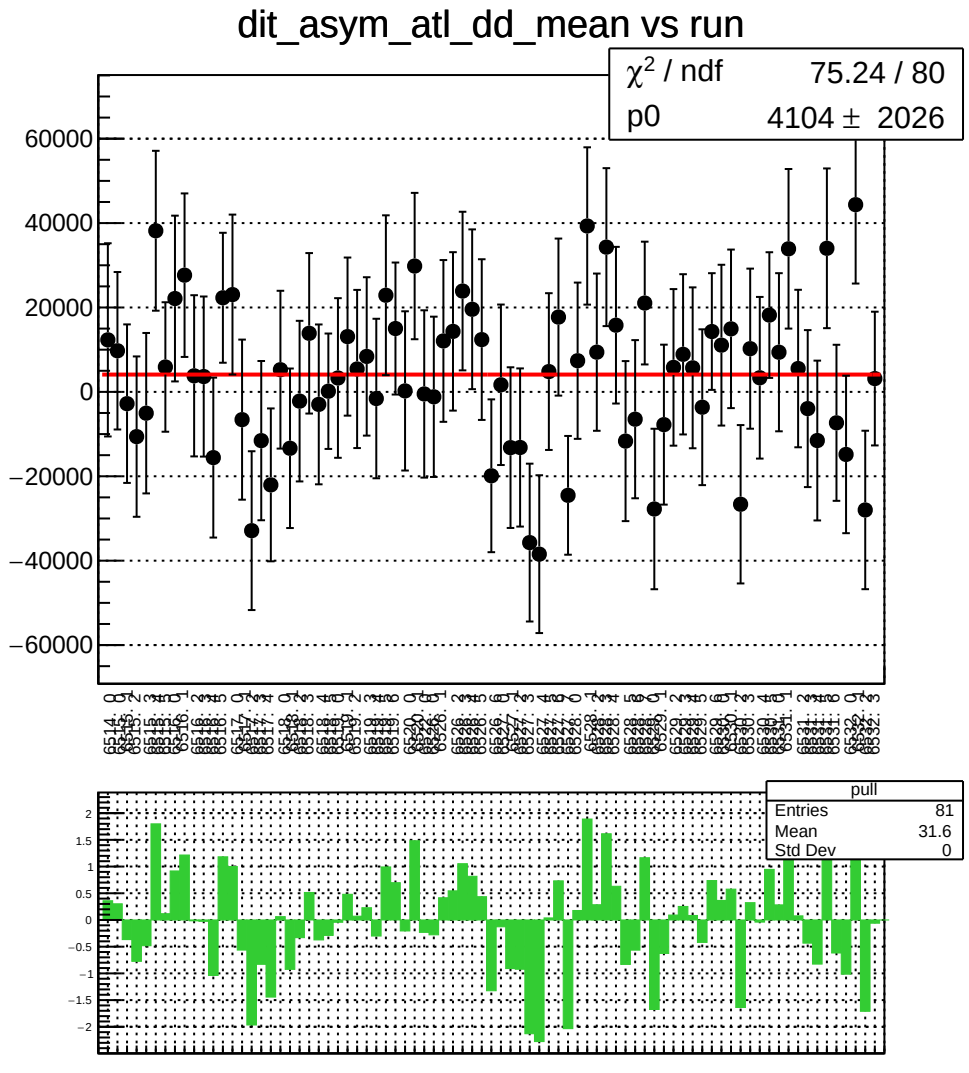

pull1D
Entries 81
Mean −0.006642
Std Dev 0.9632

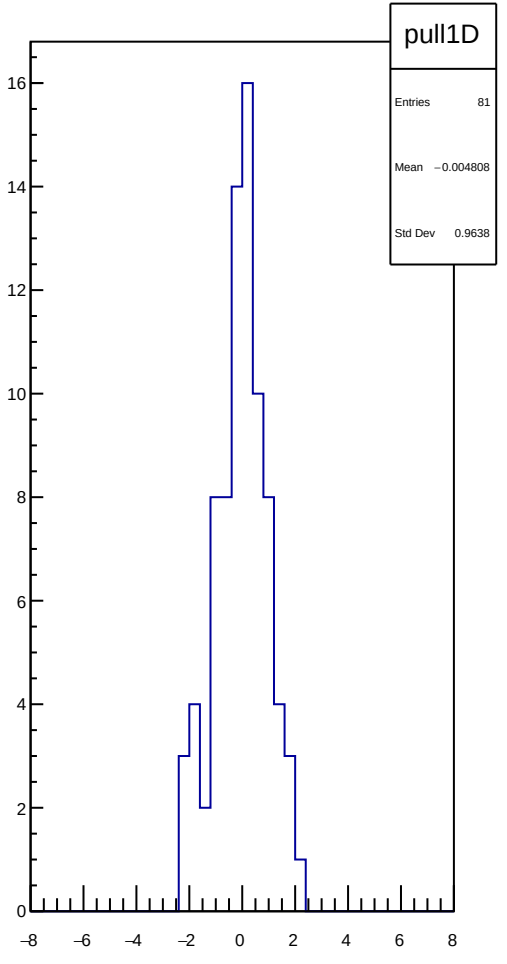

eigen_cor_asym_atl_dd_rms vs run
χ² / ndf 74.64 / 80
p0 1767 ± 1.414
1820
1800
1780
1760
1740
1720

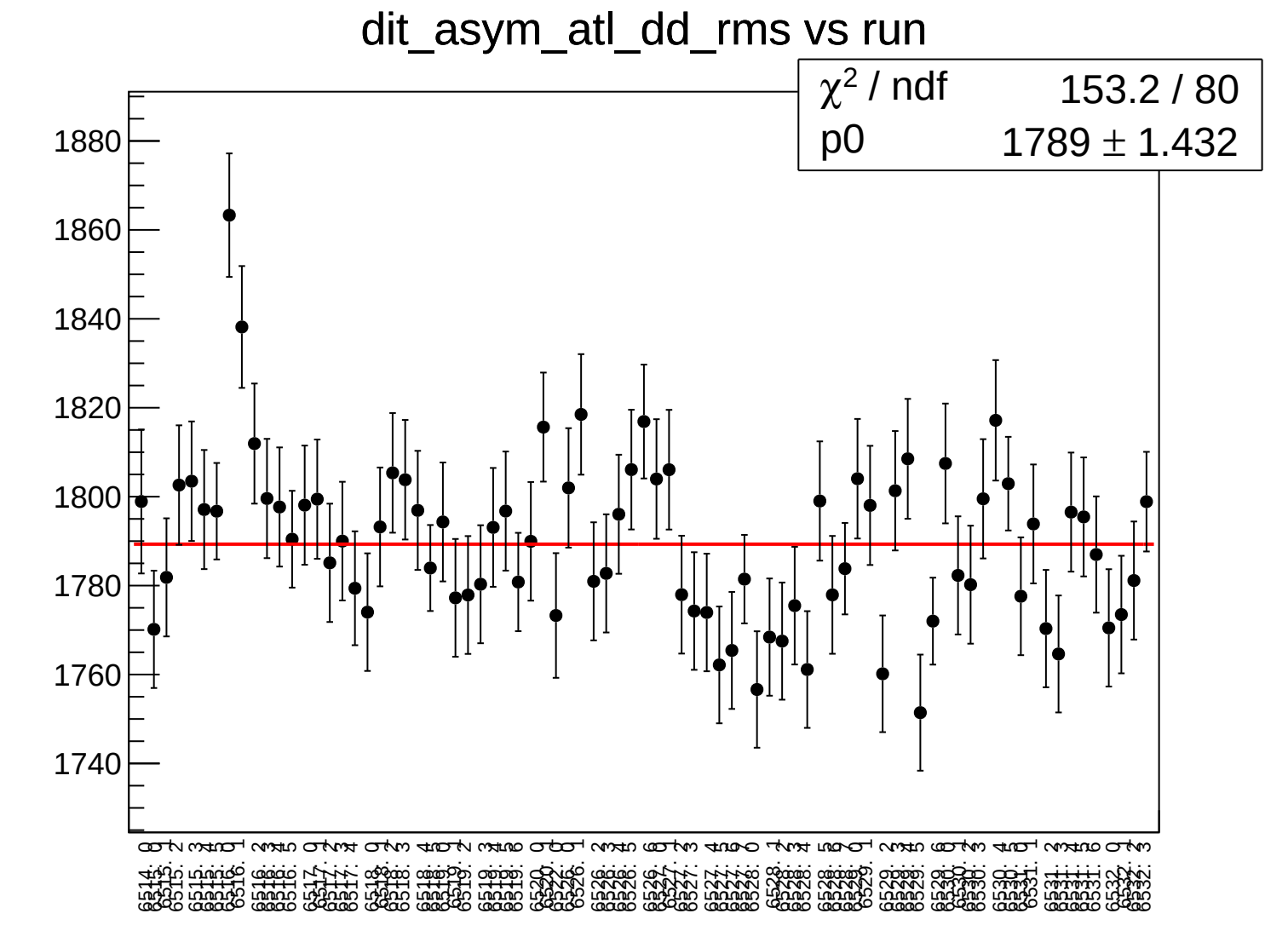

asym_atl_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 87.07 / 80
p0 −4396 ± 5003
150
100
50
0
−50
−100
−150
−200
pull
Entries 81
Mean −102.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

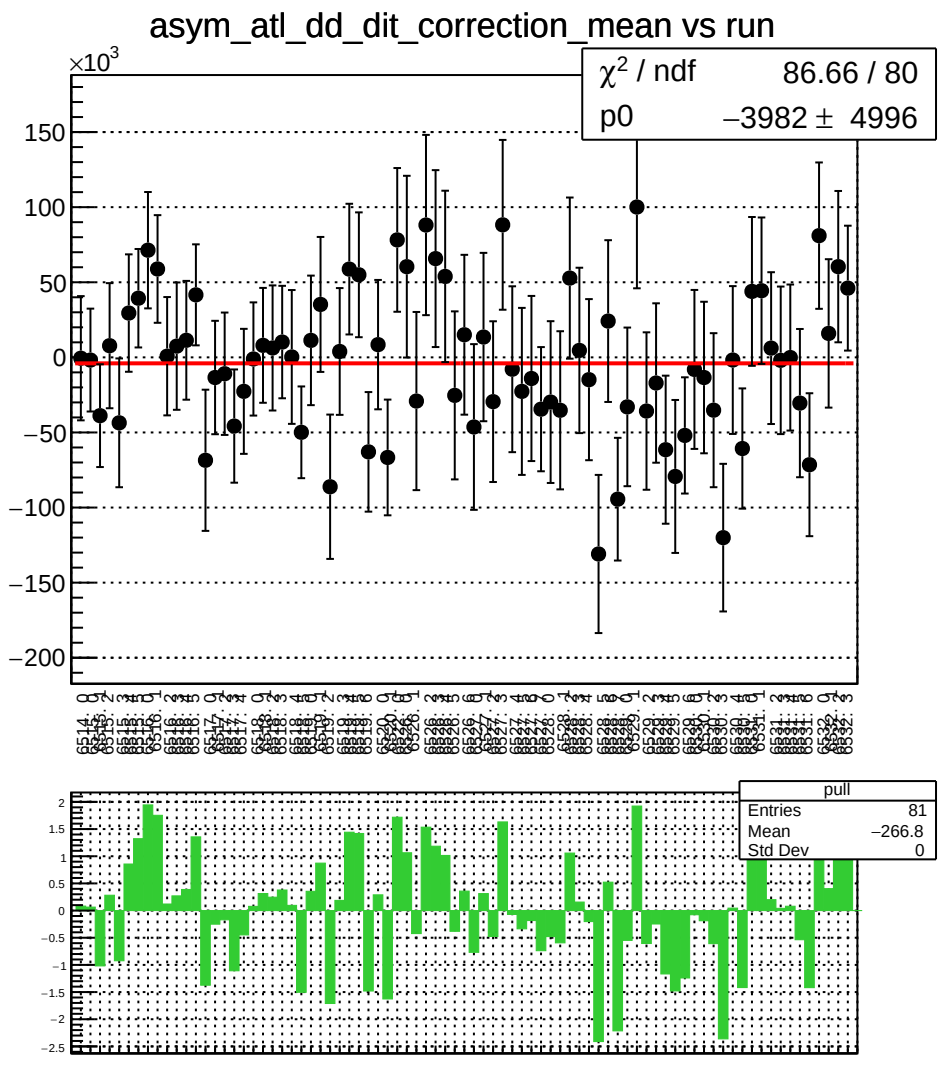

pull1D
Entries 81
Mean 0.01456
Std Dev 1.037
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

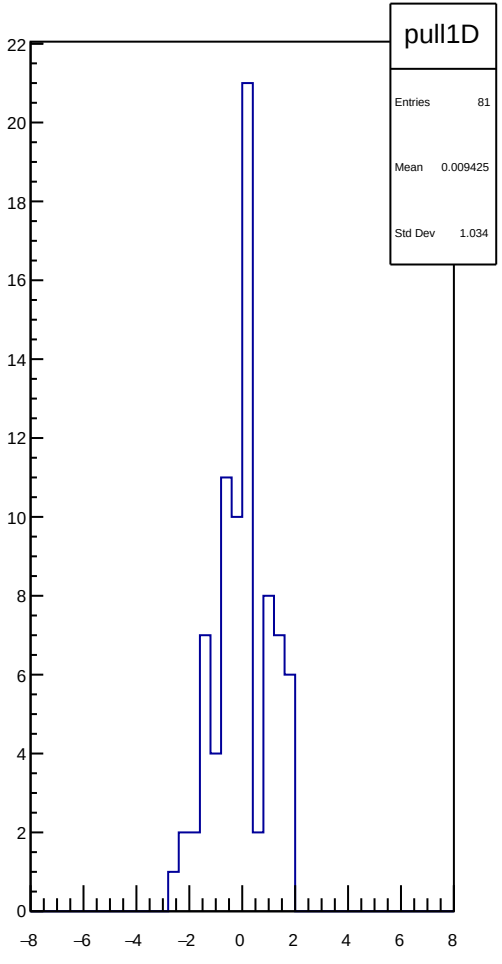

asym_atl_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.948e+04 / 80
p0 4378 ± 3.538
6000
5500
5000
4500
4000
3500
3000

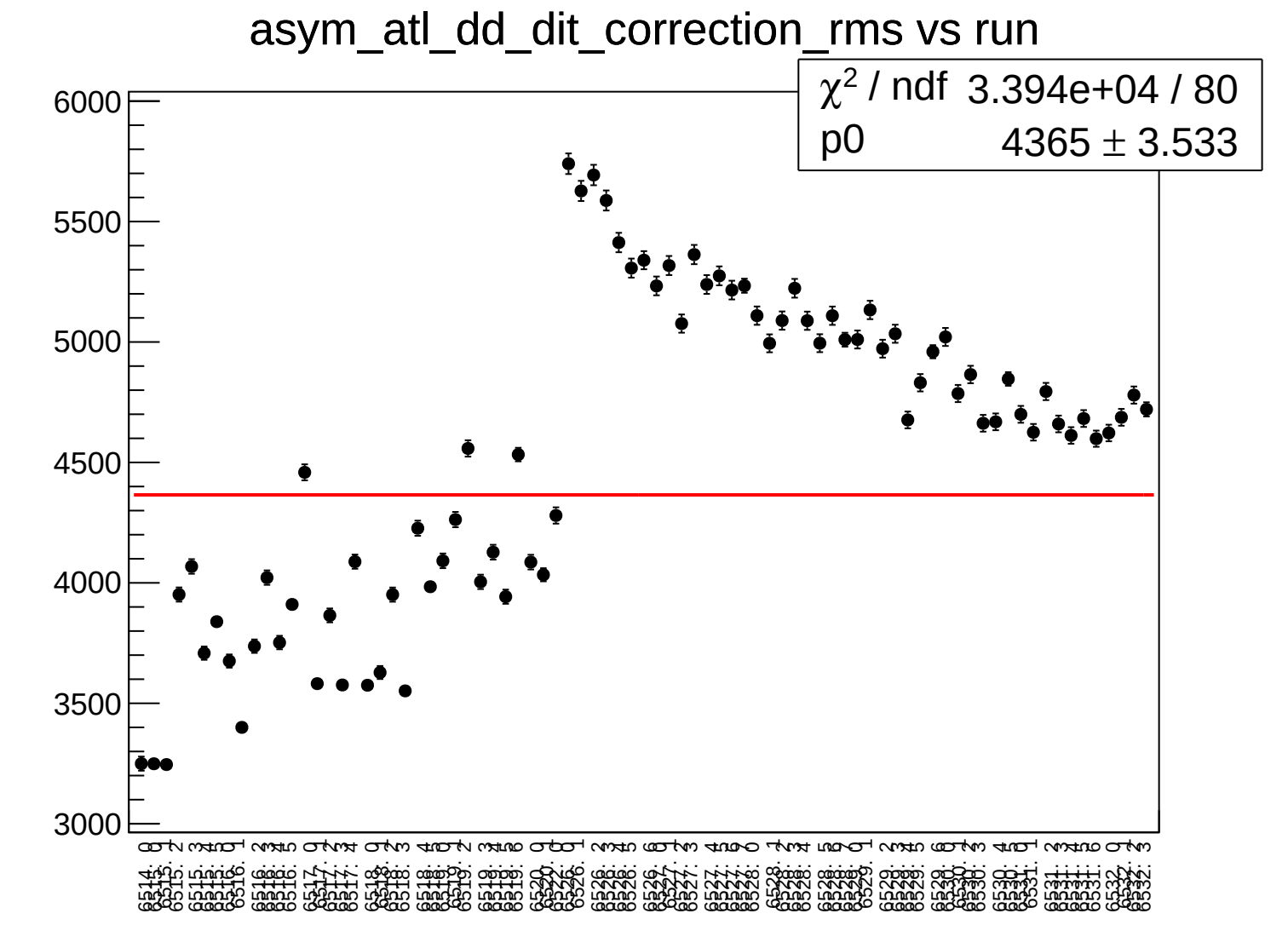

dit_asym_atl_dd_mean vs run
χ² / ndf 75.24 / 80
p0 4104 ± 2026
pull
Entries 81
Mean 31.6
Std Dev 0

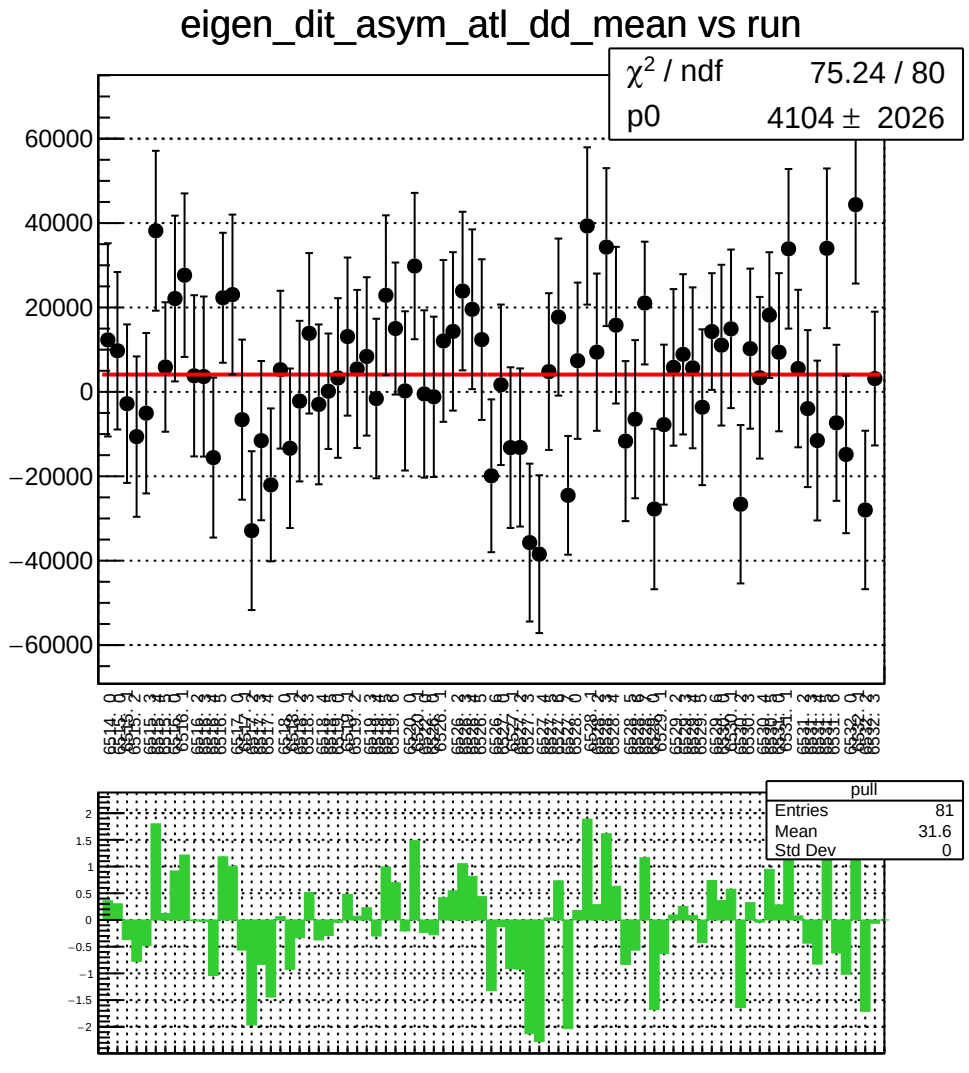

pull1D
Entries 81
Mean −0.004808
Std Dev 0.9638

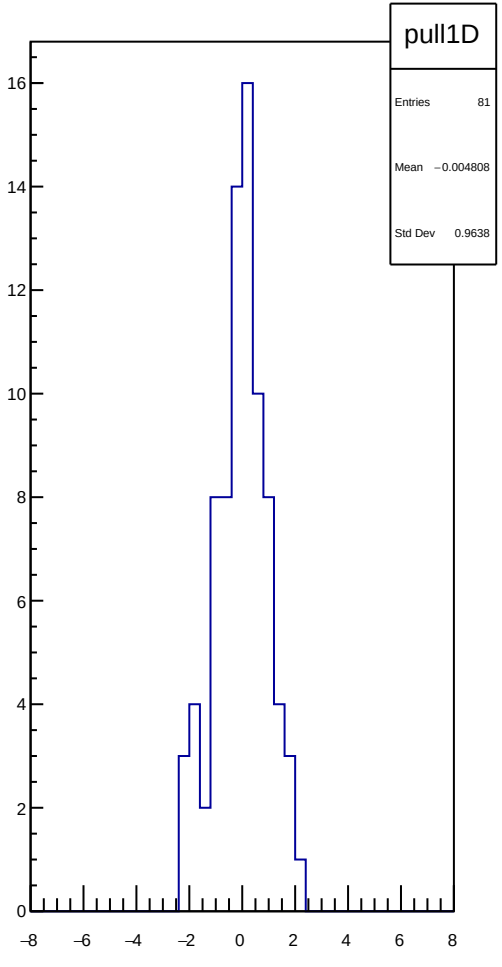

dit_asym_atl_dd_rms vs run
χ² / ndf 153.2 / 80
p0 1789 ± 1.432
1880
1860
1840
1820
1800
1780
1760
1740

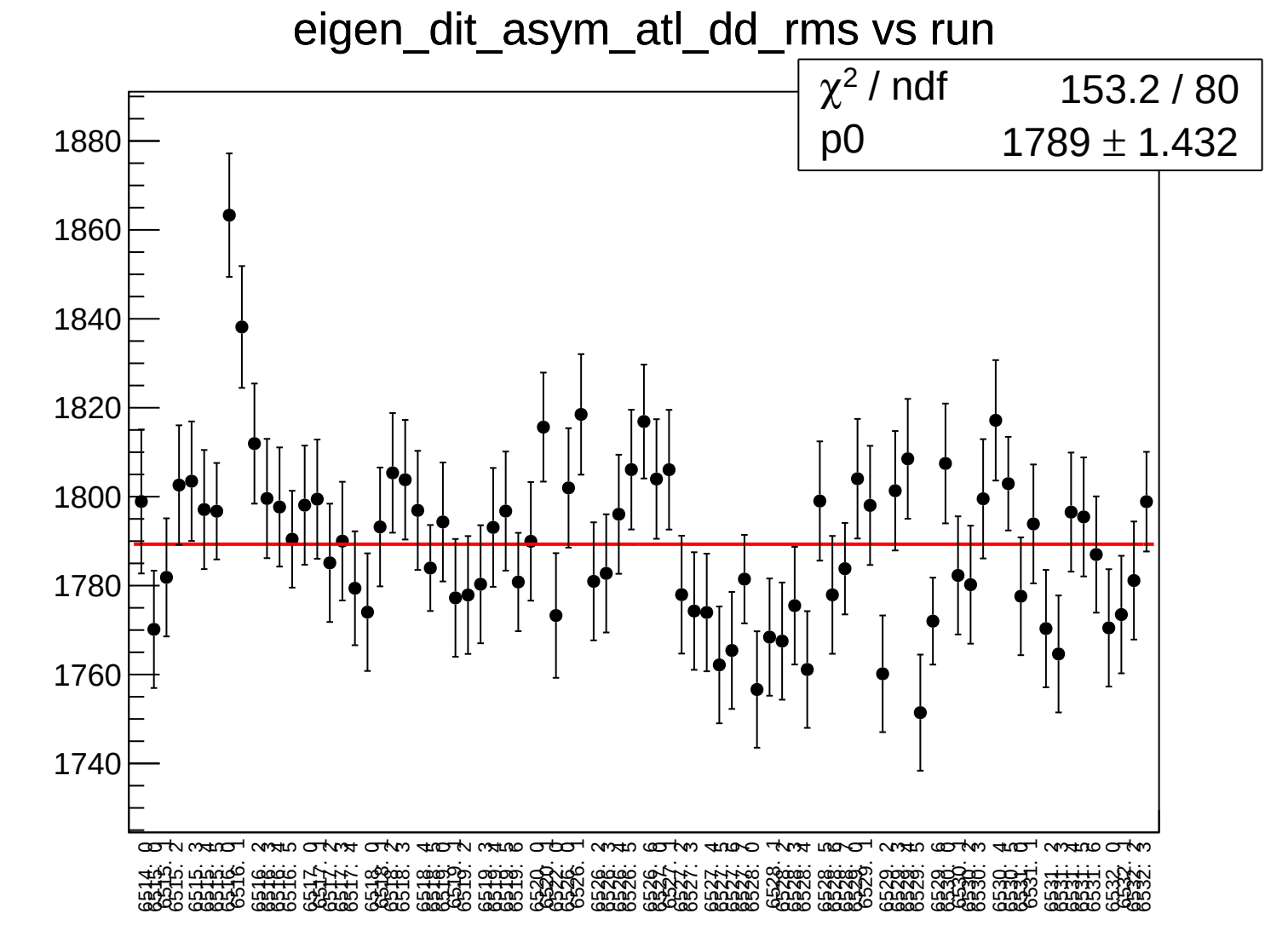

asym_atl_dd_dit_correction_mean vs run
×10^3
χ² / ndf 86.66 / 80
p0 −3982 ± 4996
pull
Entries 81
Mean −266.8
Std Dev 0

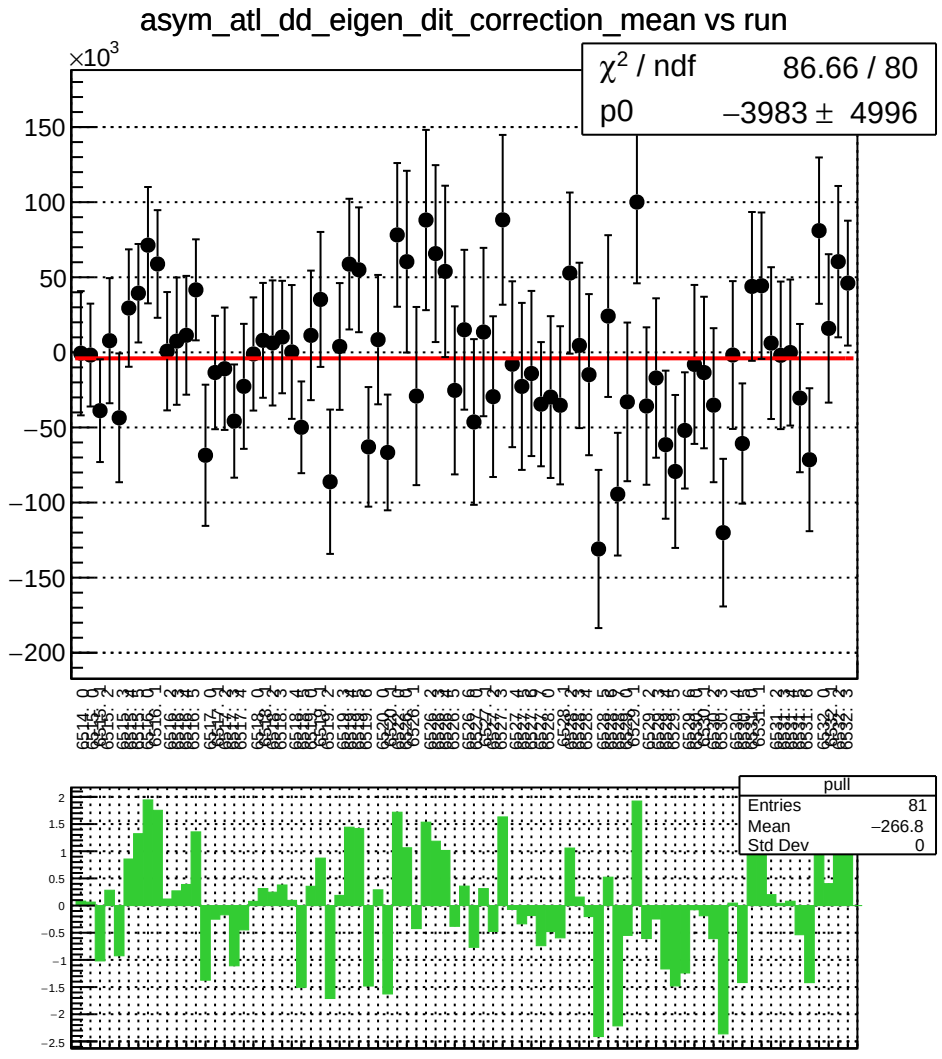

pull1D
Entries 81
Mean 0.009425
Std Dev 1.034

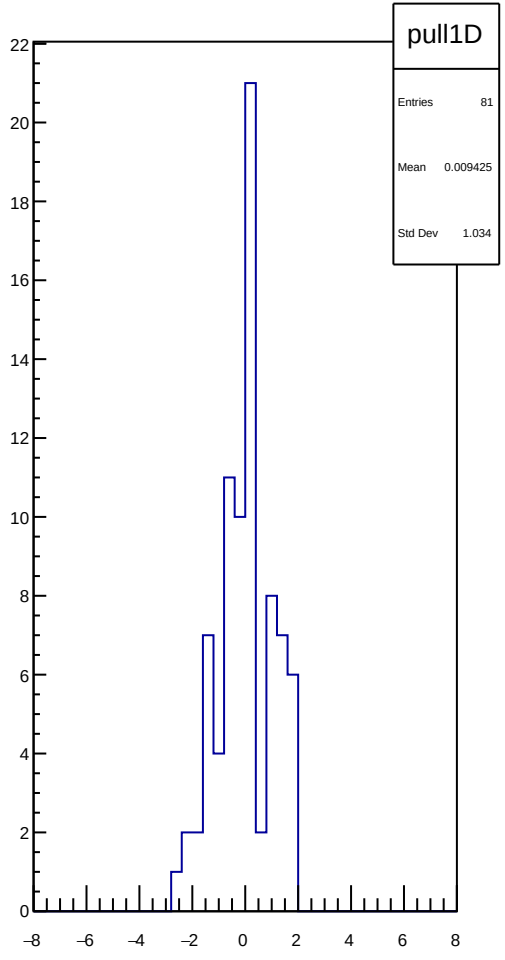

asym_atl_dd_dit_correction_rms vs run
χ² / ndf 3.394e+04 / 80
p0 4365 ± 3.533
6000
5500
5000
4500
4000
3500
3000

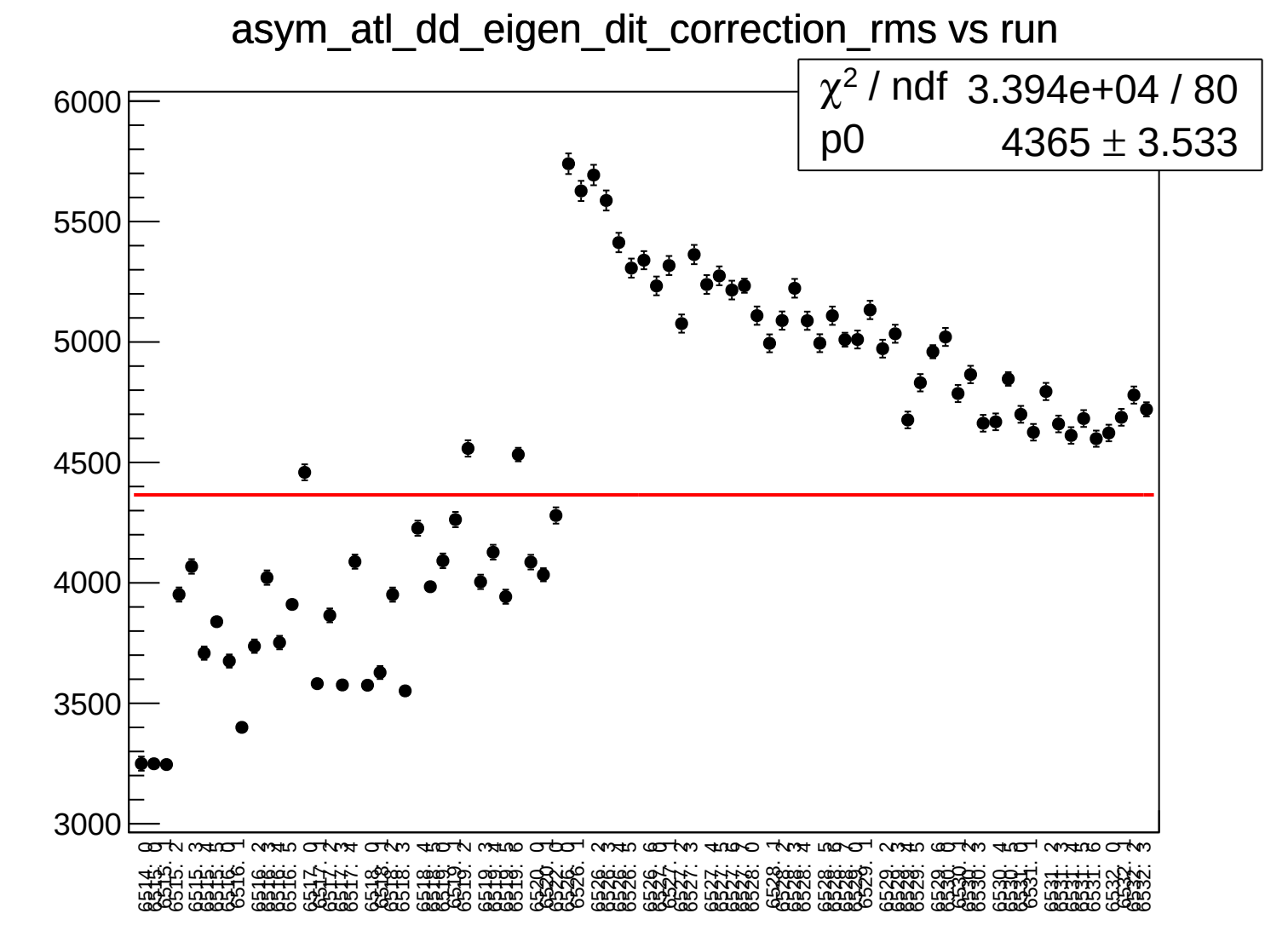

eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 75.24 / 80
p0 4104 ± 2026
pull
Entries 81
Mean 31.6
Std Dev 0

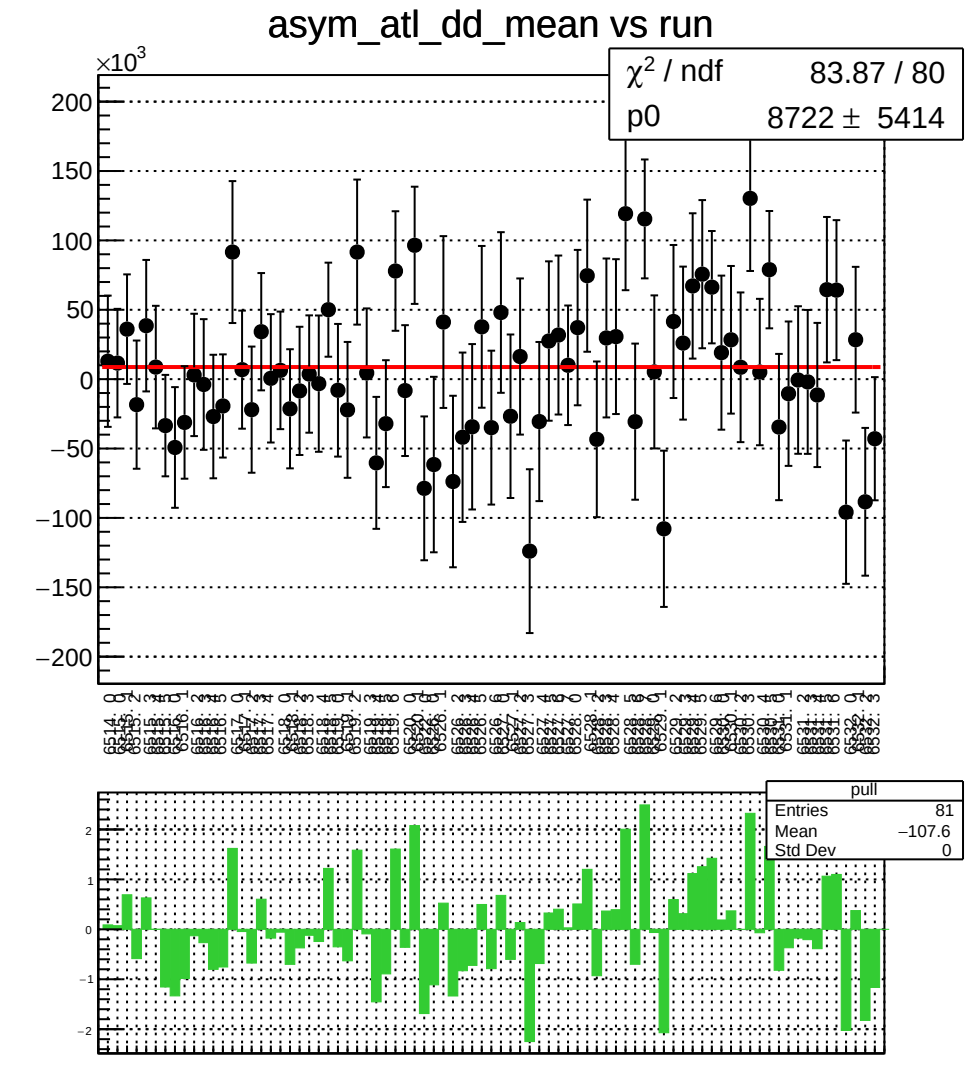

pull1D
Entries 81
Mean −0.004808
Std Dev 0.9638

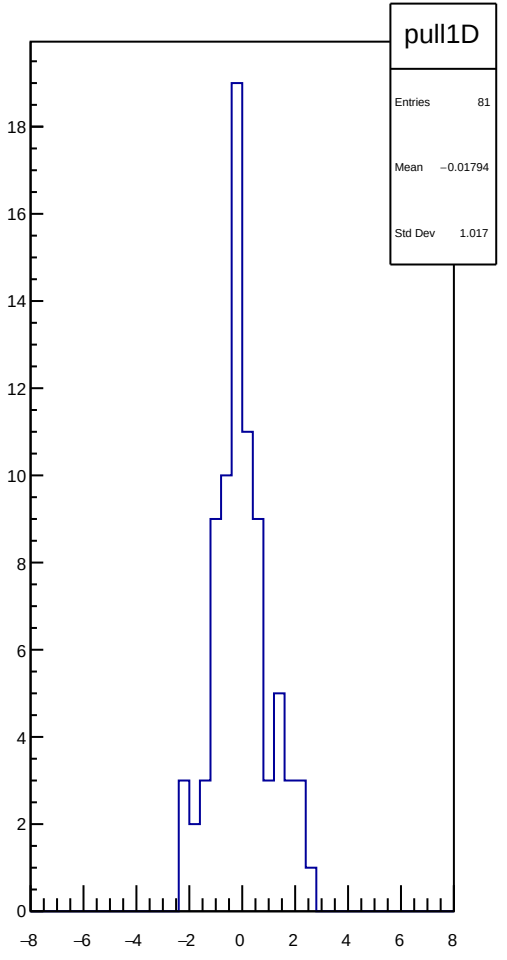

eigen_dit_asym_atl_dd_rms vs run
χ² / ndf 153.2 / 80
p0 1789 ± 1.432
1880
1860
1840
1820
1800
1780
1760
1740

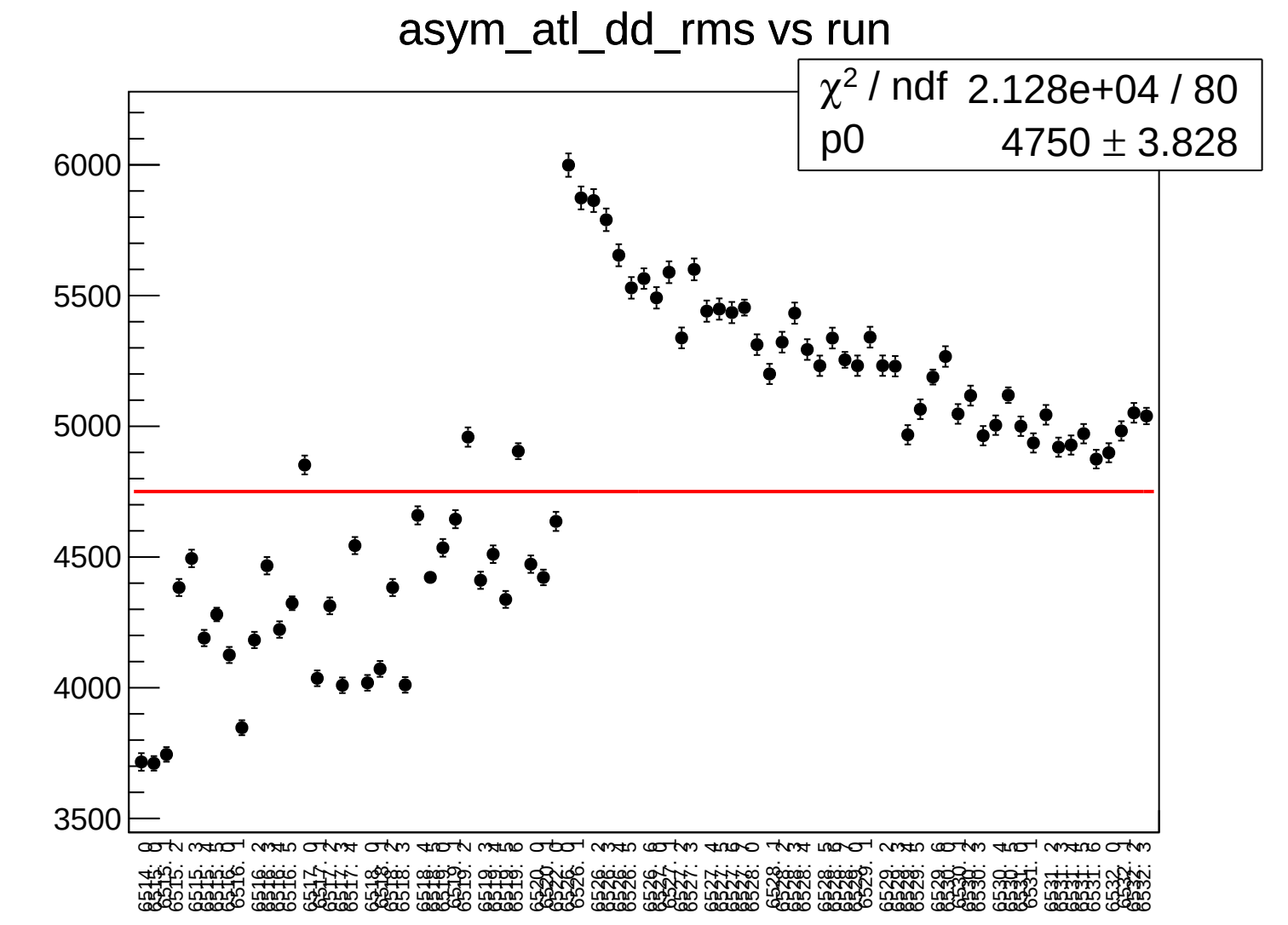

asym_atl_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 86.66 / 80
p0 −3983 ± 4996
150
100
50
0
−50
−100
−150
−200
pull
Entries 81
Mean −266.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

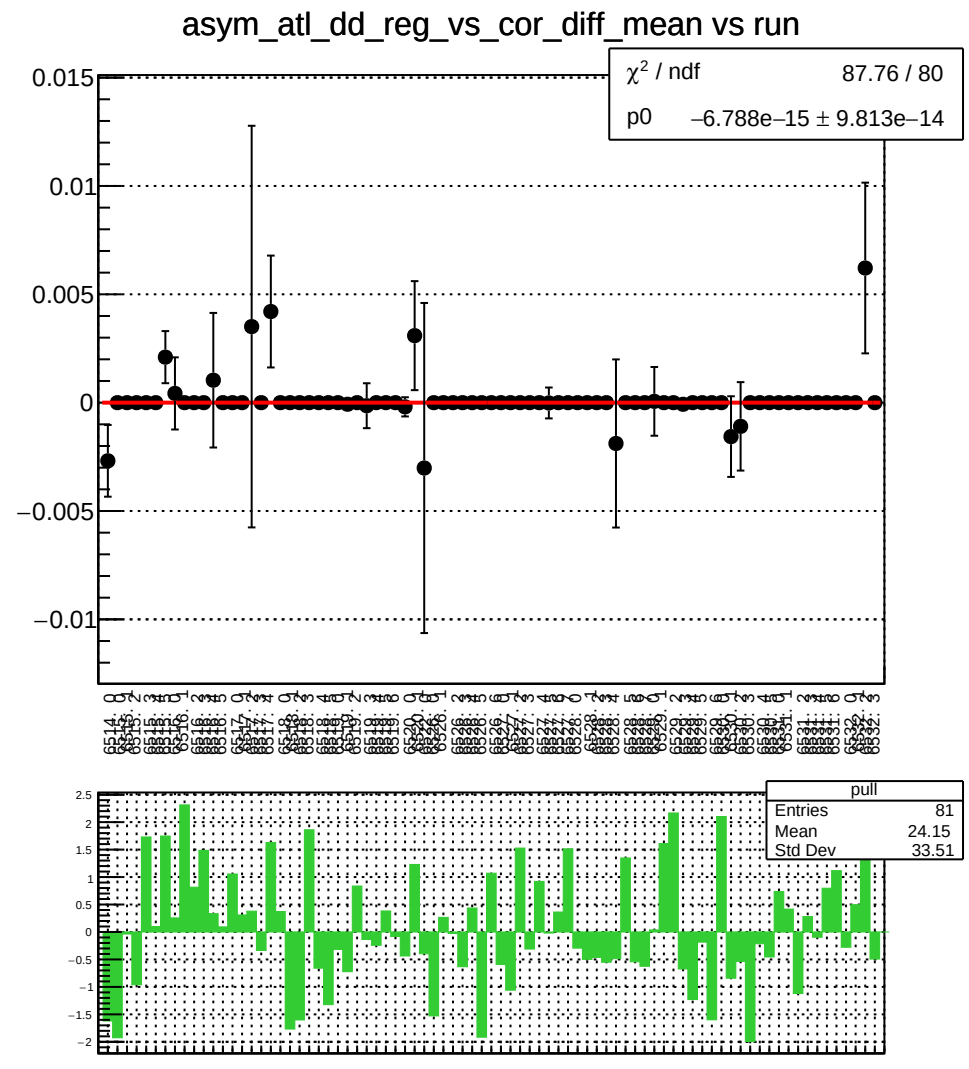

pull1D
Entries 81
Mean 0.009425
Std Dev 1.034
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

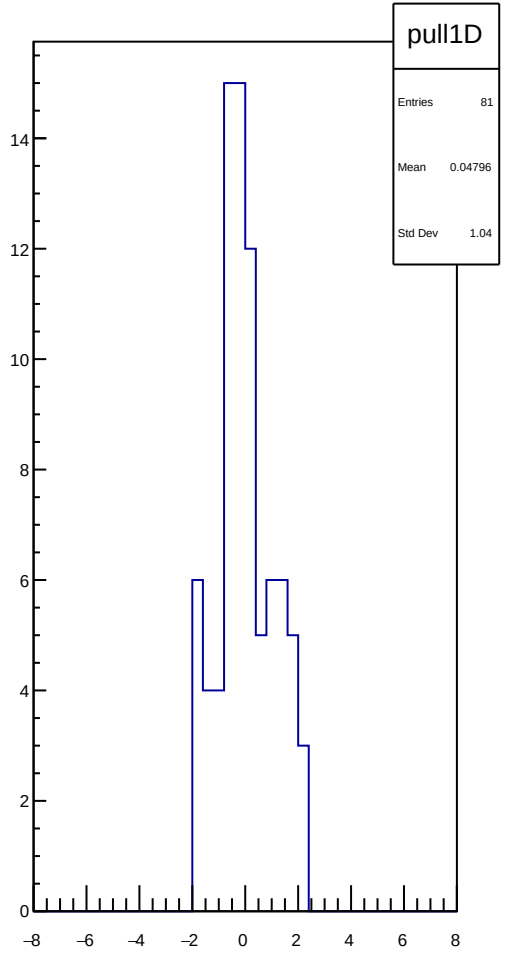

asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.394e+04 / 80
p0 4365 ± 3.533
6000
5500
5000
4500
4000
3500
3000

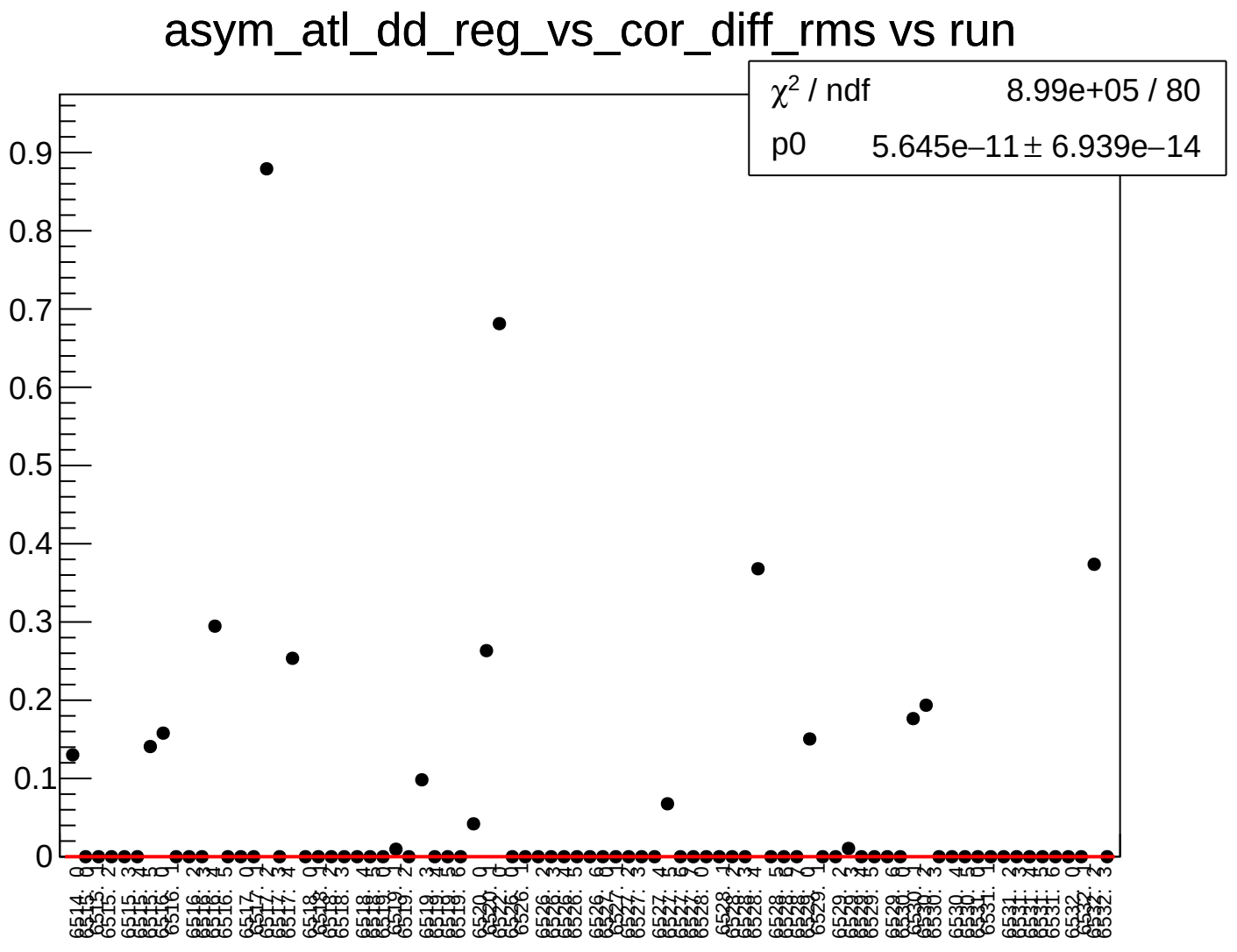

asym_atl_dd_mean vs run
×10^3
χ² / ndf 83.87 / 80
p0 8722 ± 5414
pull
Entries 81
Mean −107.6
Std Dev 0

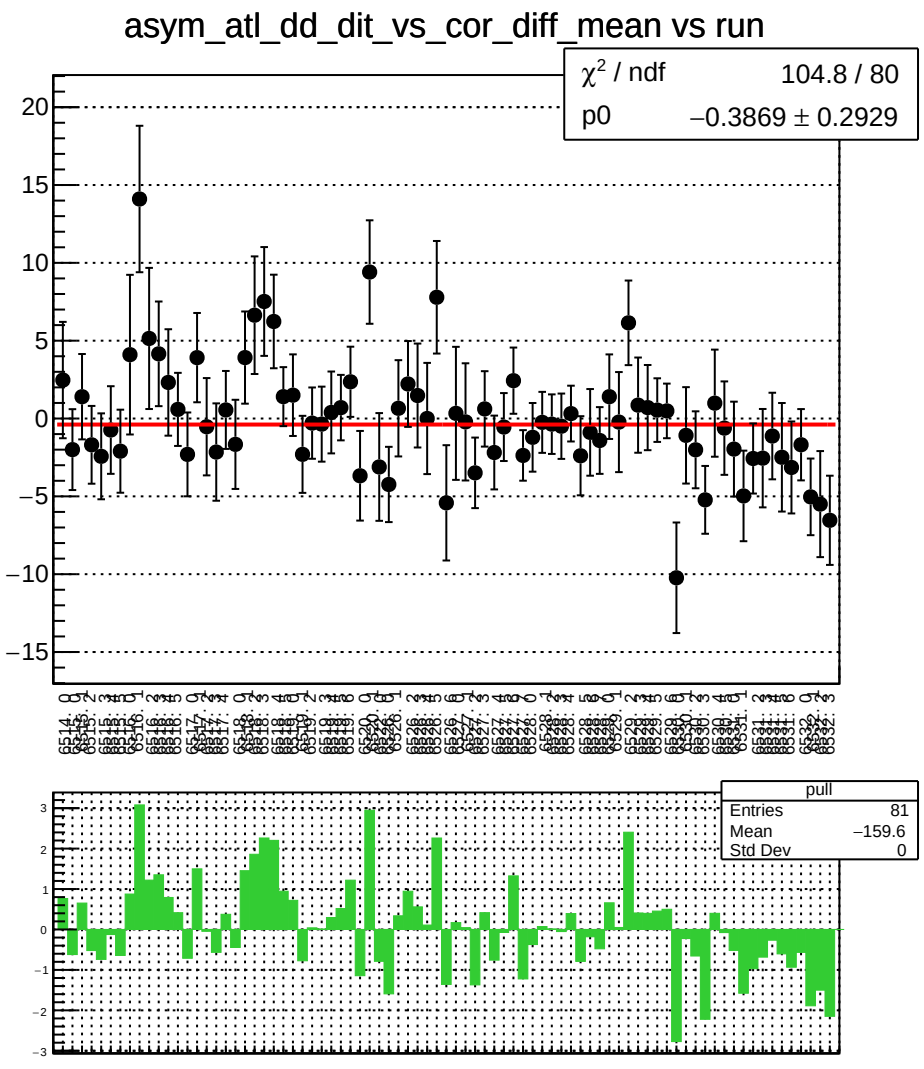

pull1D
Entries 81
Mean −0.01794
Std Dev 1.017

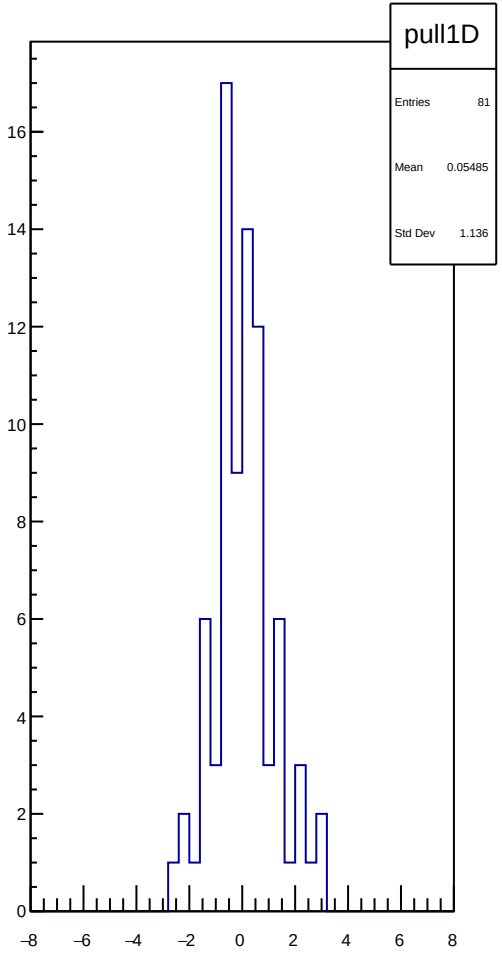

asym_atl_dd_rms vs run
χ² / ndf 2.128e+04 / 80
p0 4750 ± 3.828
6000
5500
5000
4500
4000
3500

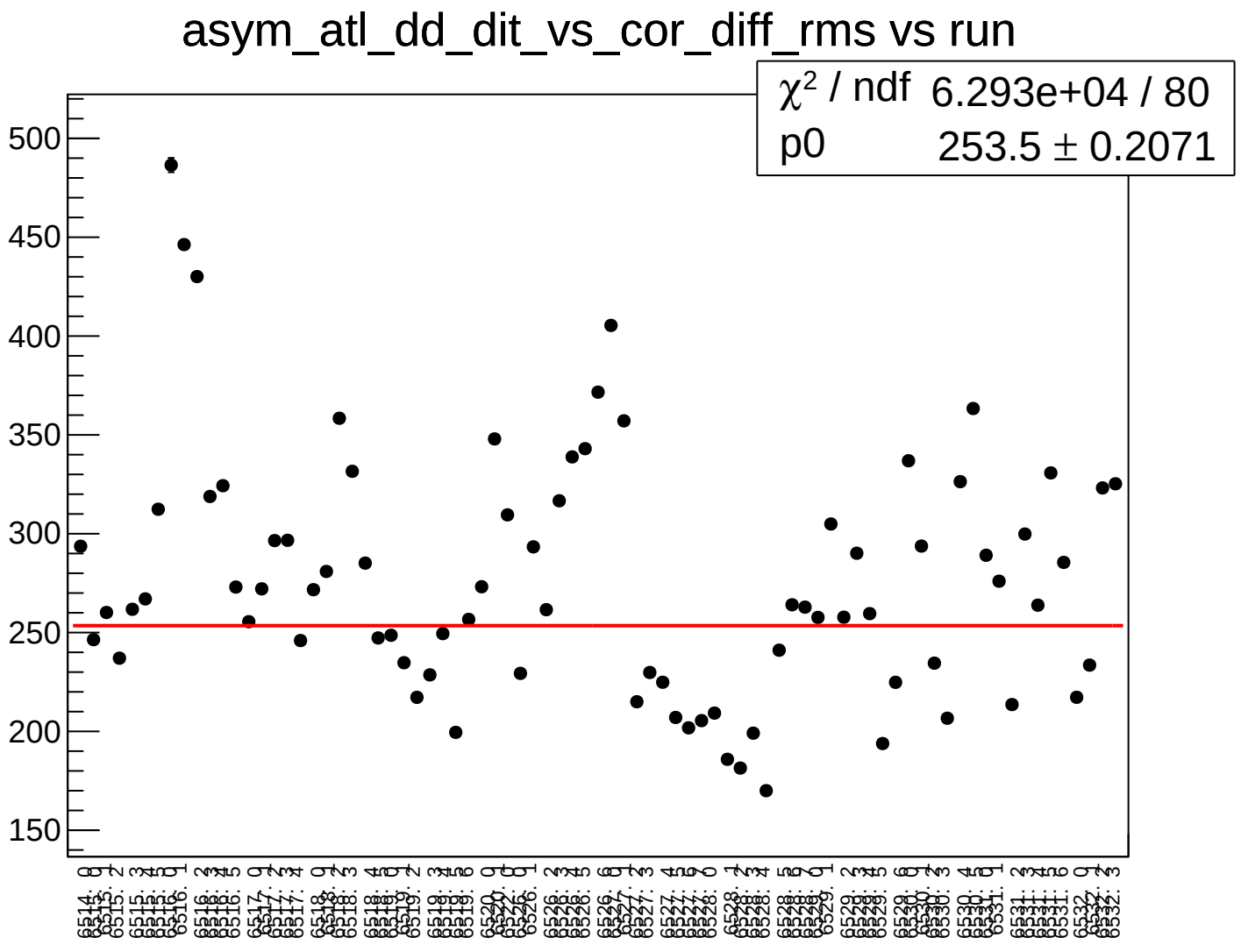

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 87.76 / 80
p0 −6.788e−15 ± 9.813e−14
pull
Entries 81
Mean 24.15
Std Dev 33.51

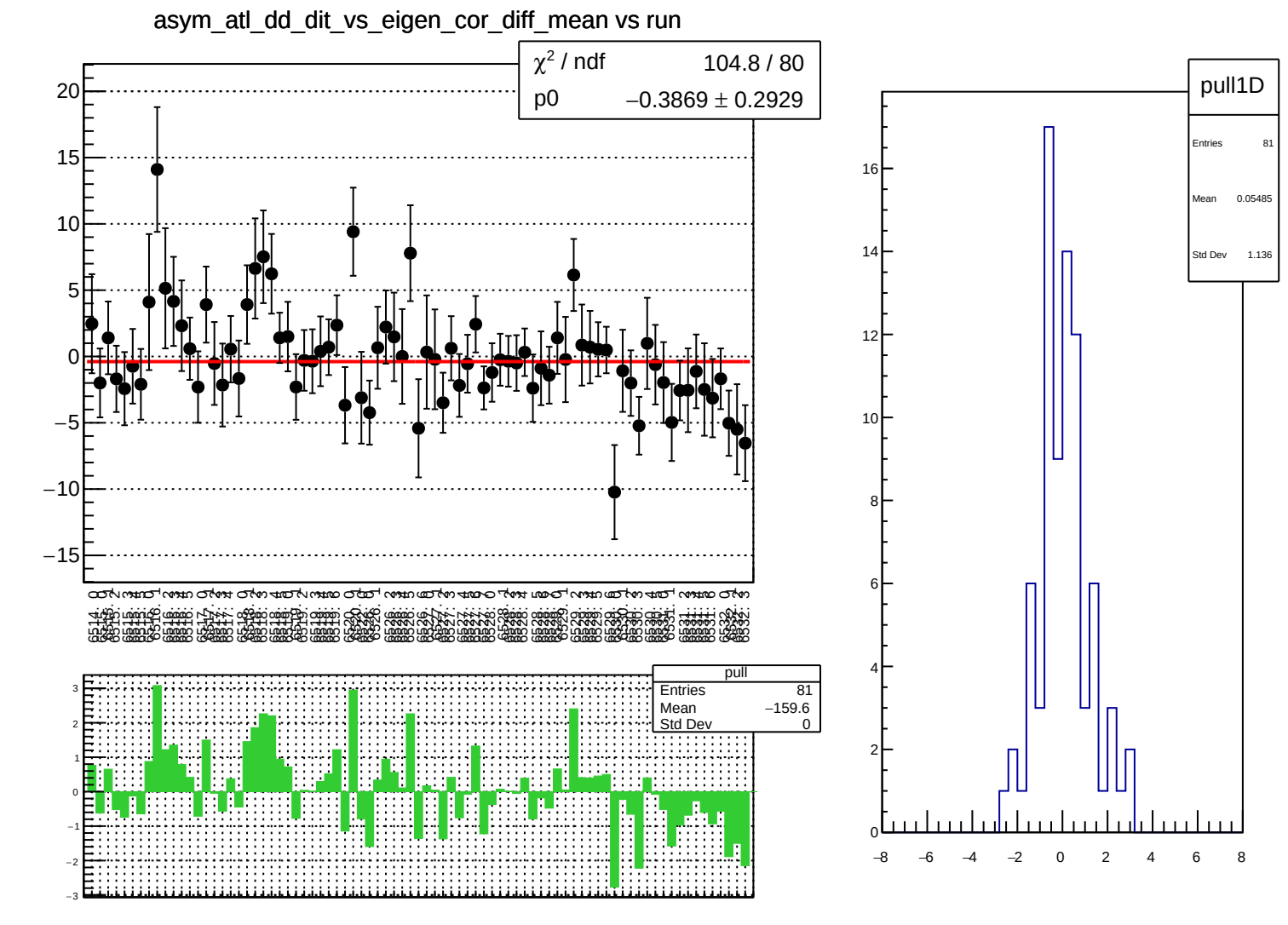

pull1D
Entries 81
Mean 0.04796
Std Dev 1.04

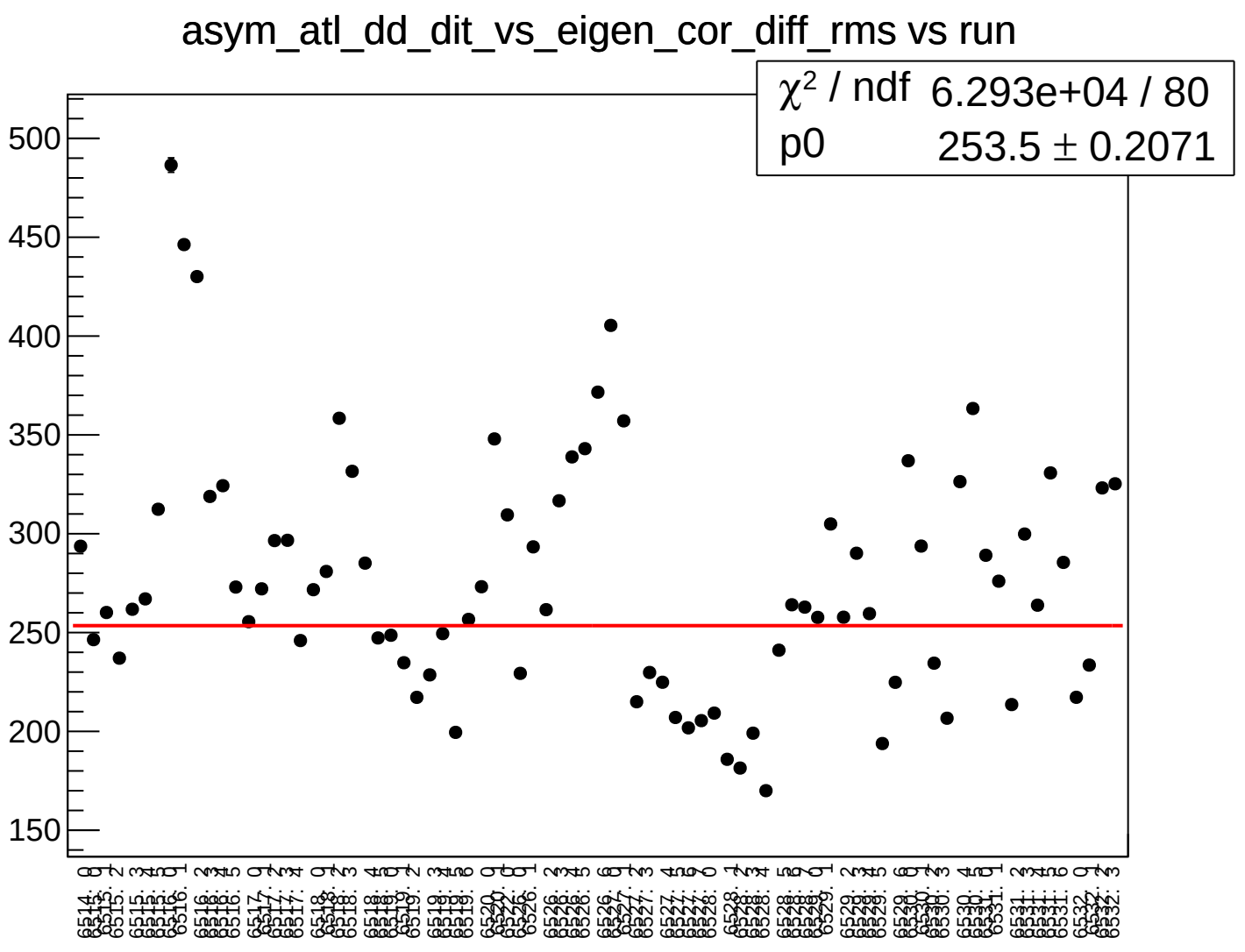

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.99e+05 / 80
p0 5.645e−11 ± 6.939e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

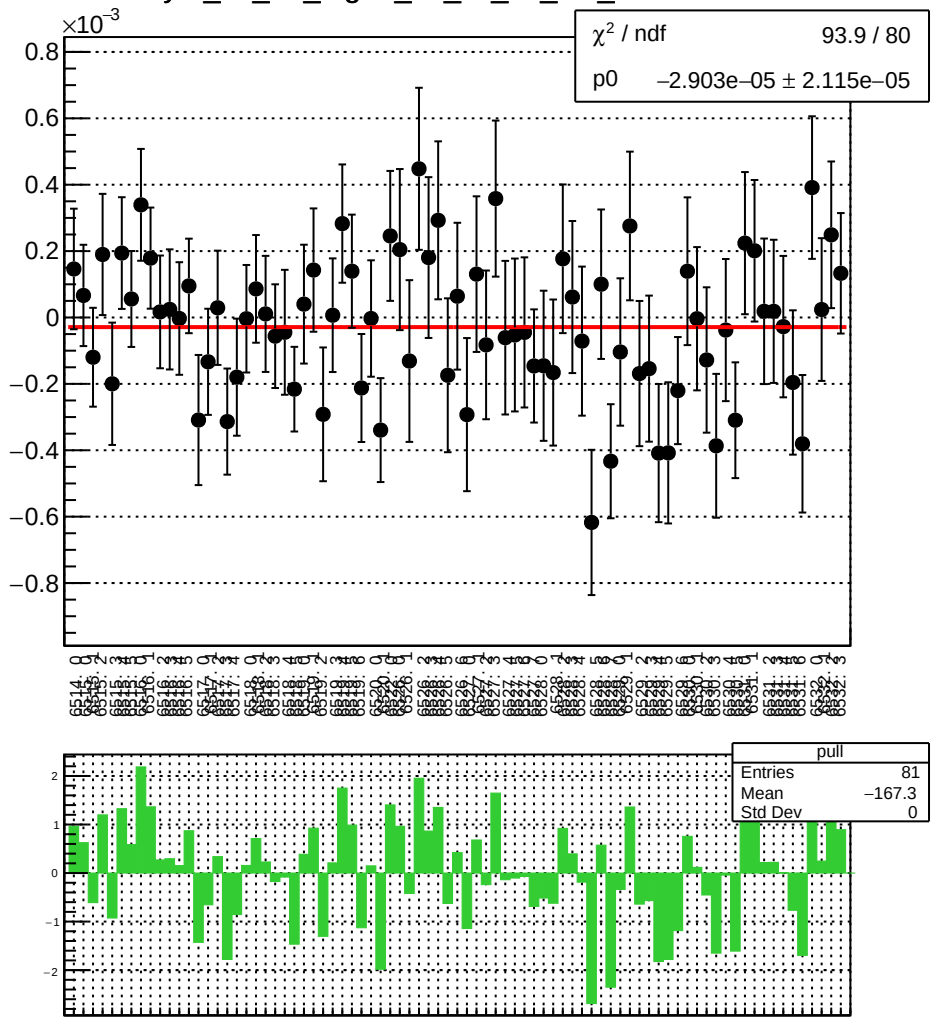

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 104.8 / 80
p0 −0.3869 ± 0.2929
pull
Entries 81
Mean −159.6
Std Dev 0

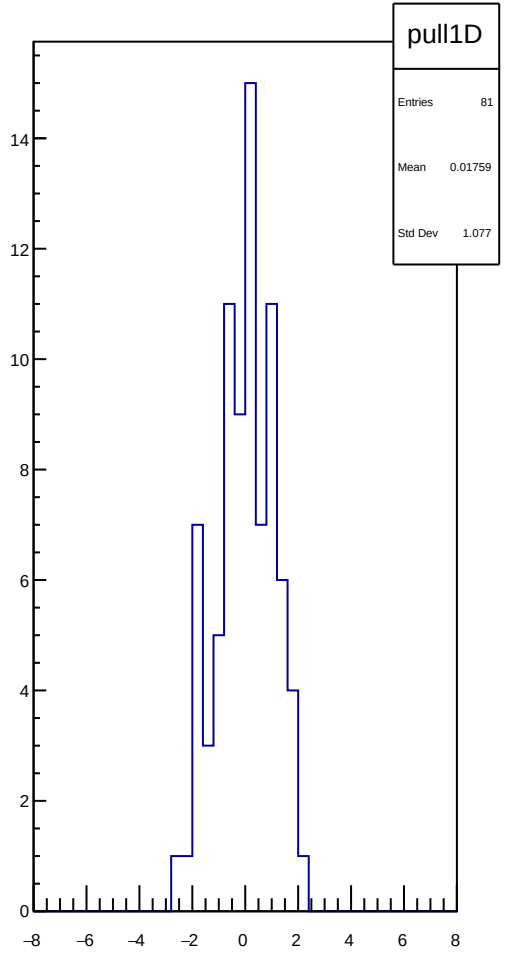

pull1D
Entries 81
Mean 0.05485
Std Dev 1.136

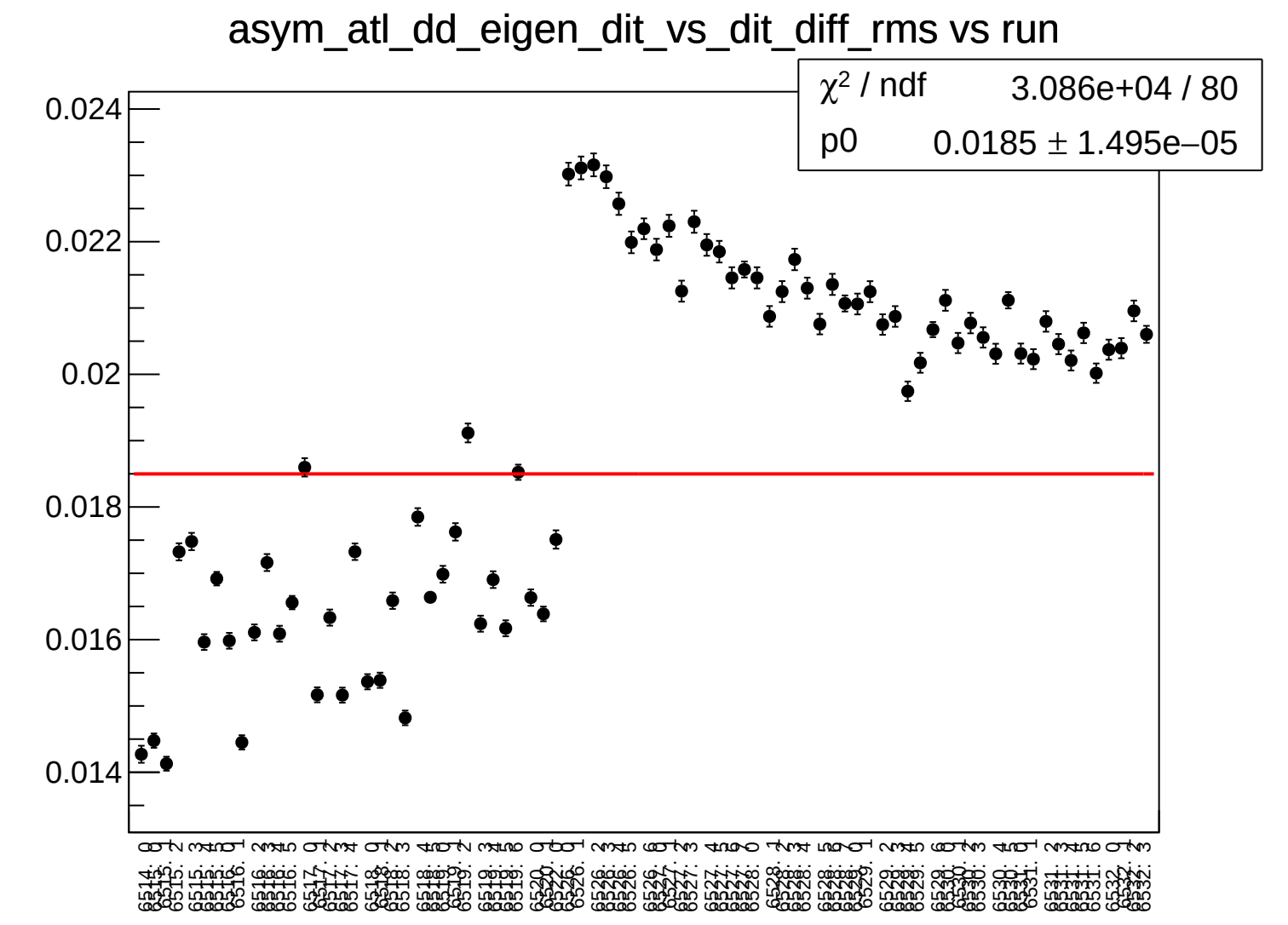

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.293e+04 / 80
p0 253.5 ± 0.2071
500
450
400
350
300
250
200
150


asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.8 / 80
p0 −0.3869 ± 0.2929
pull
Entries 81
Mean −159.6
Std Dev 0
pull1D
Entries 81
Mean 0.05485
Std Dev 1.136

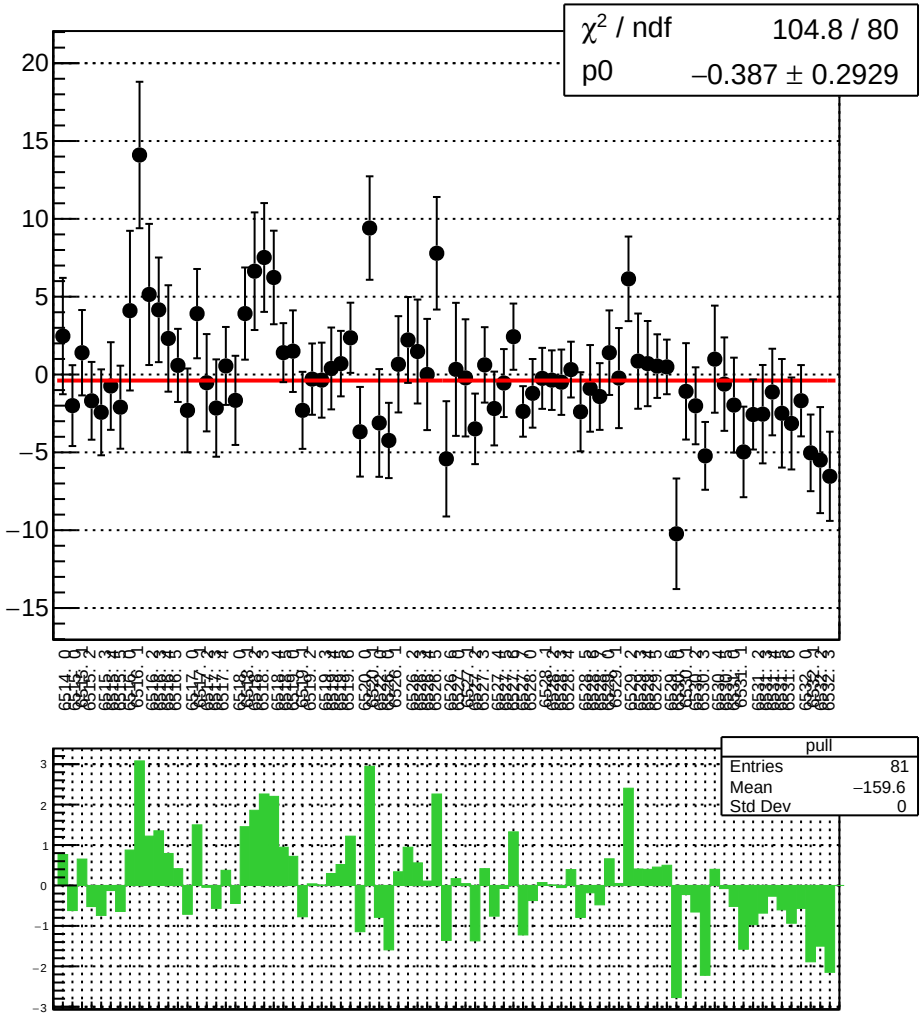

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.293e+04 / 80
p0 253.5 ± 0.2071
500
450
400
350
300
250
200
150

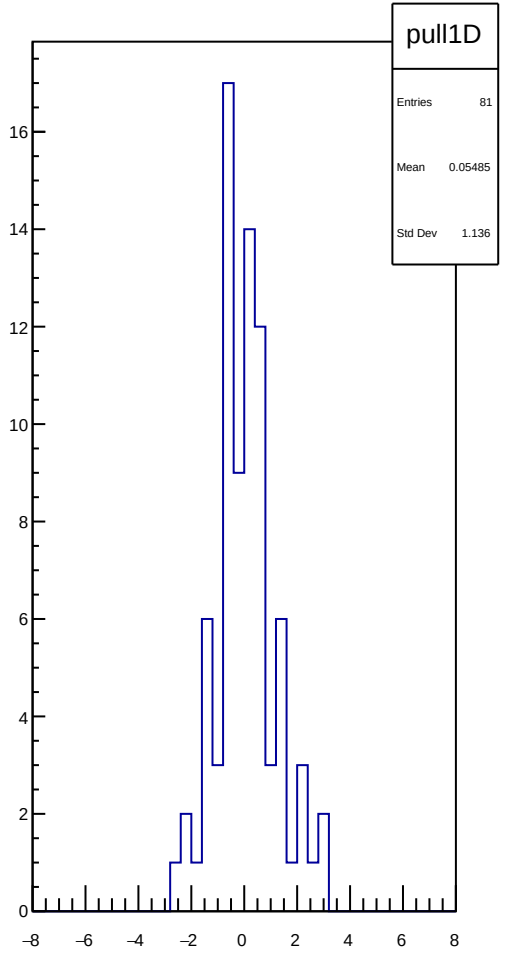

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.9 / 80
p0 −2.903e−05 ± 2.115e−05
pull
Entries 81
Mean −167.3
Std Dev 0

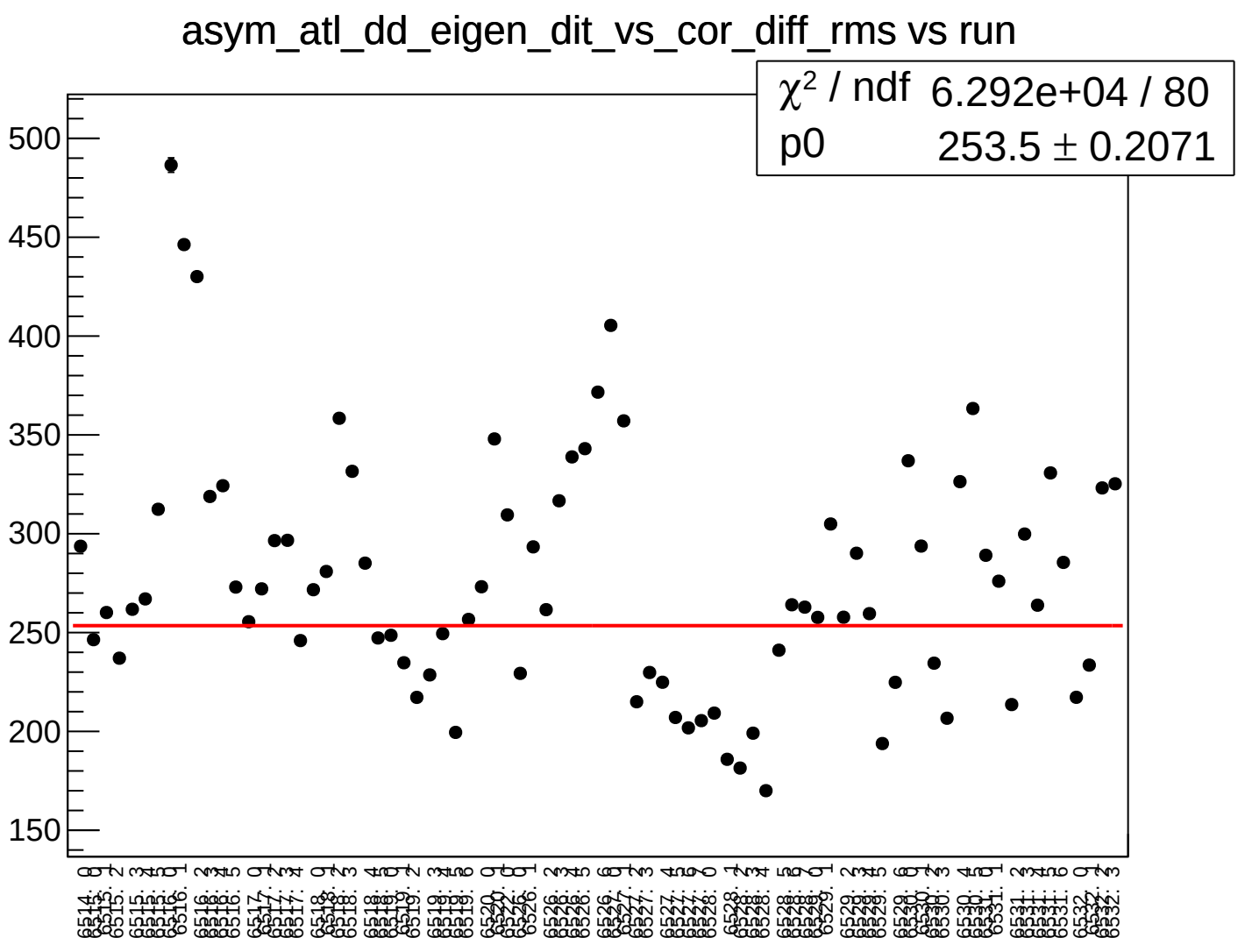

pull1D
Entries 81
Mean 0.01759
Std Dev 1.077

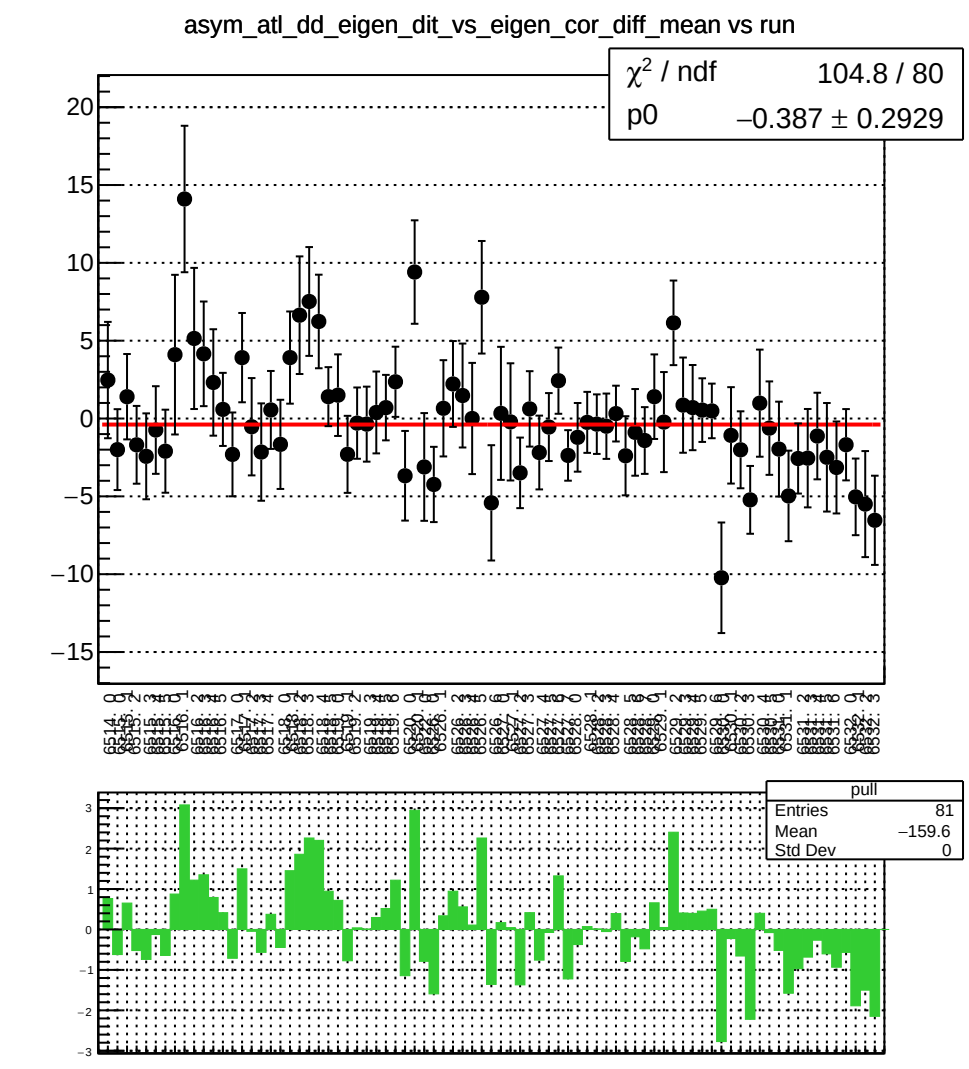

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.086e+04 / 80
p0 0.0185 ± 1.495e−05
0.024
0.022
0.02
0.018
0.016
0.014

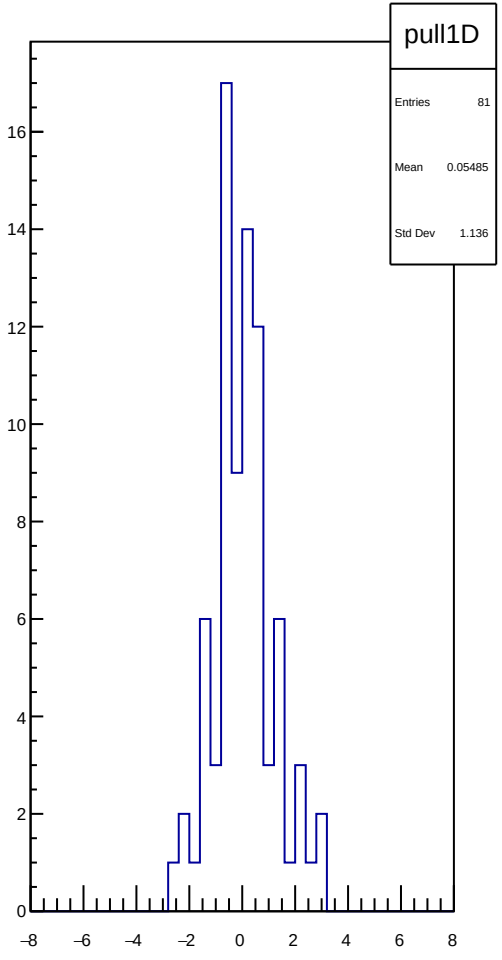
asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run

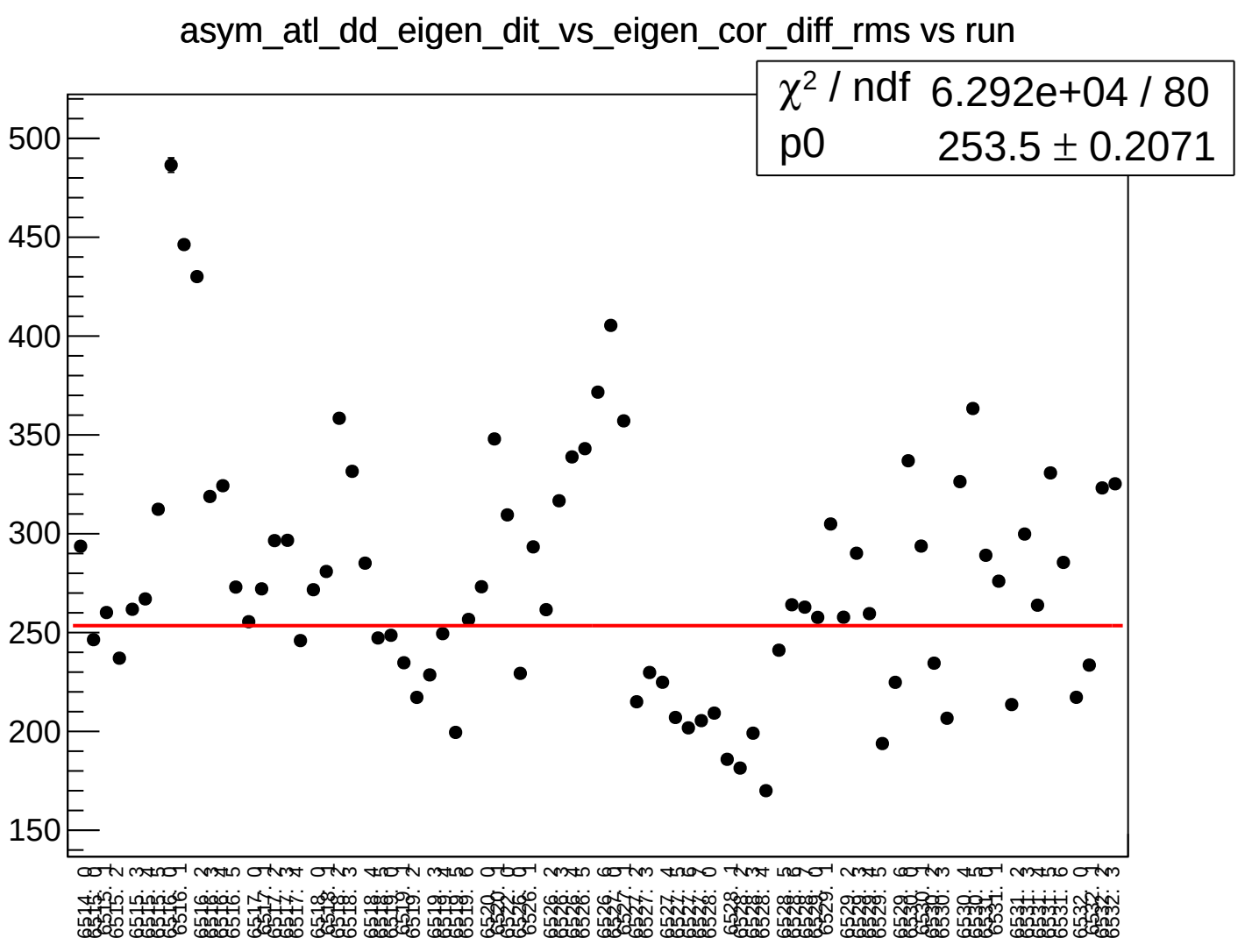


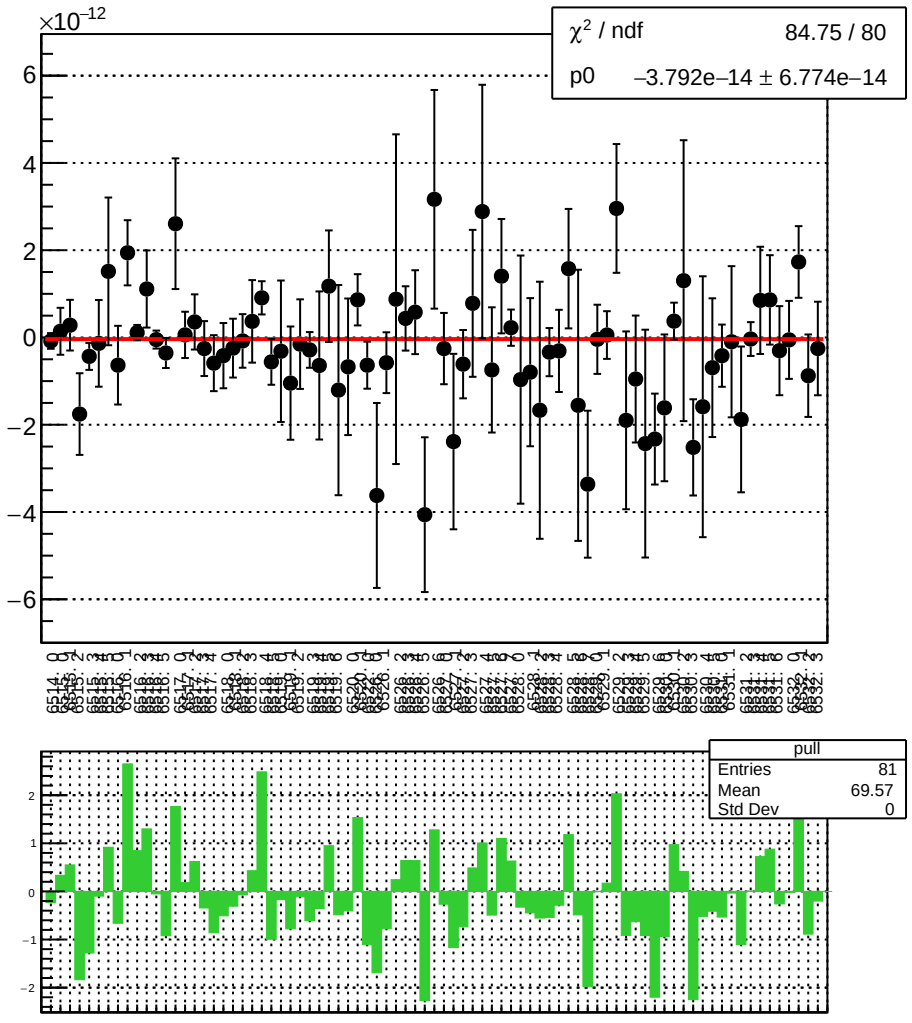


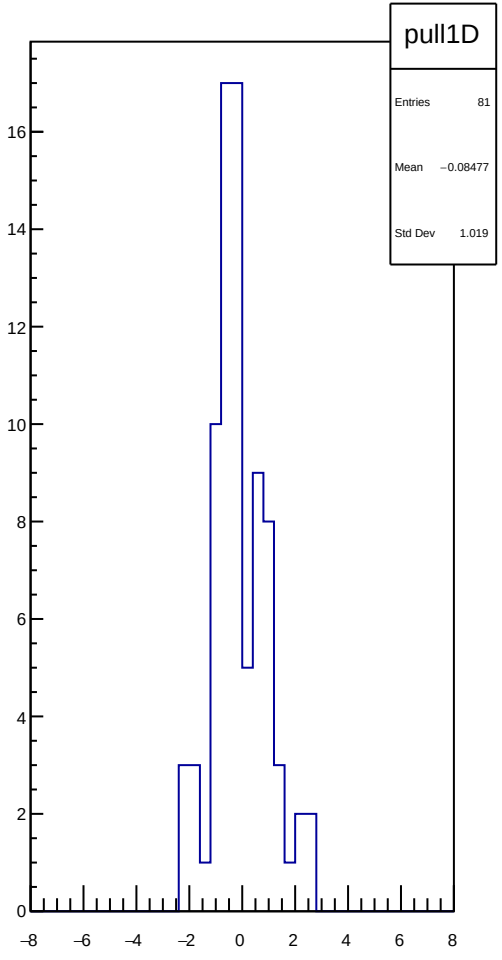

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.292e+04 / 80
p0 253.5 ± 0.2071
500
450
400
350
300
250
200
150

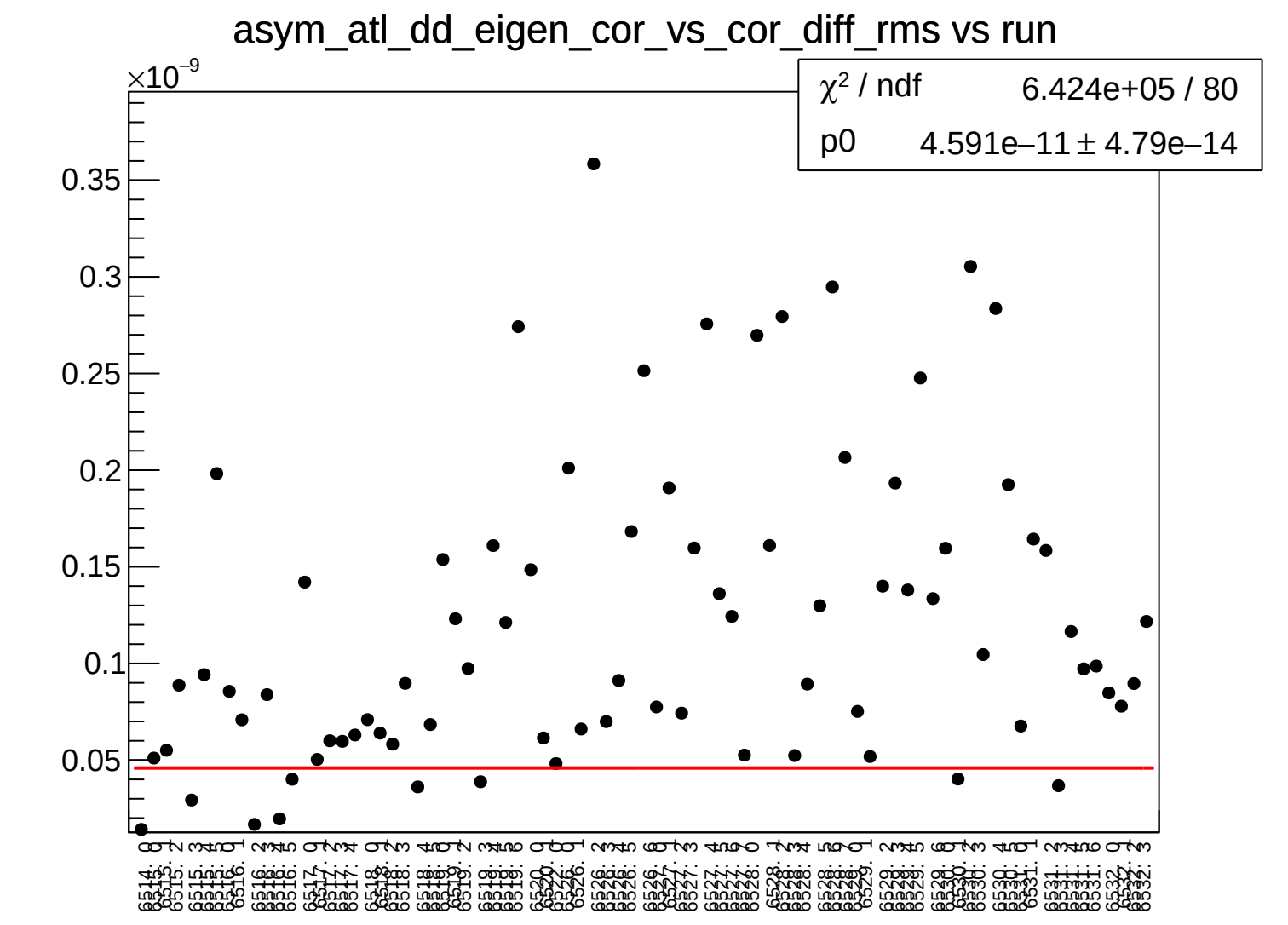

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.8 / 80
p0 −0.387 ± 0.2929
pull
Entries 81
Mean −159.6
Std Dev 0

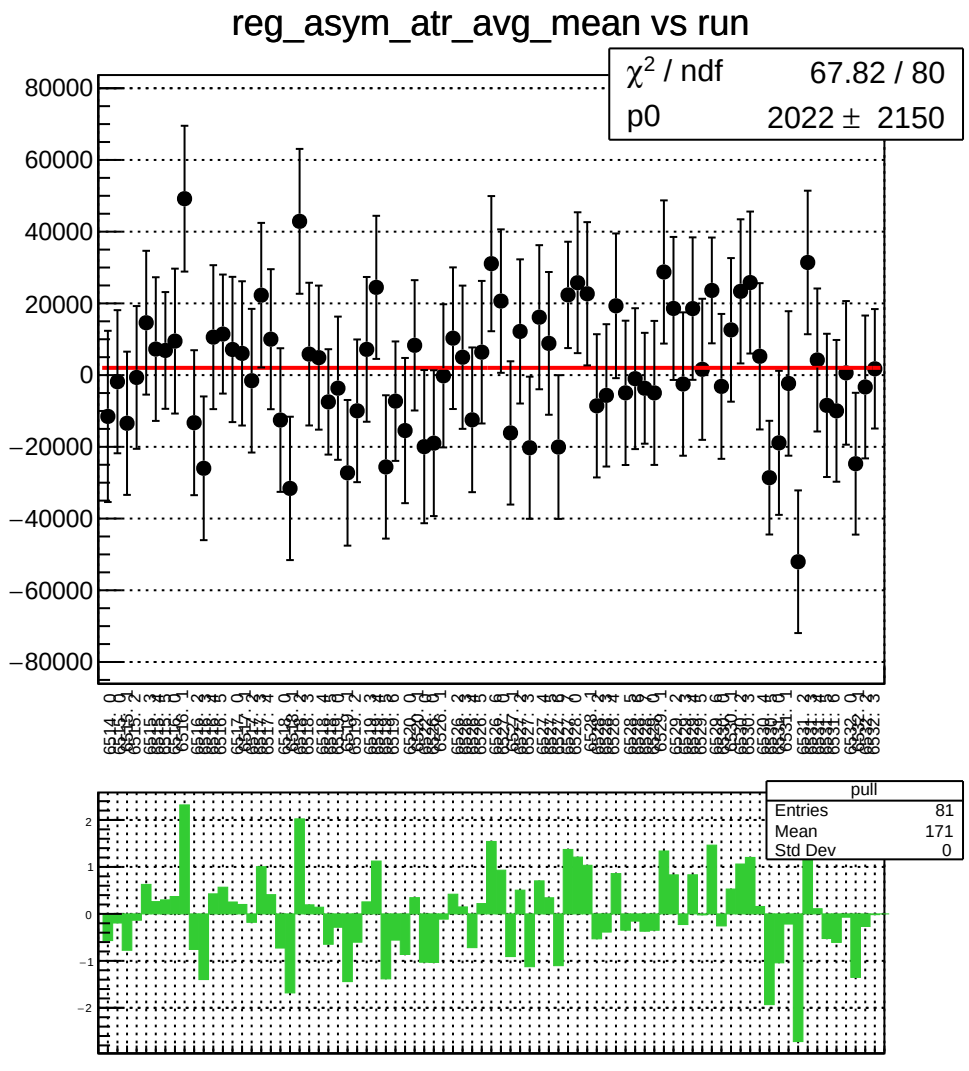

pull1D
Entries 81
Mean 0.05485
Std Dev 1.136

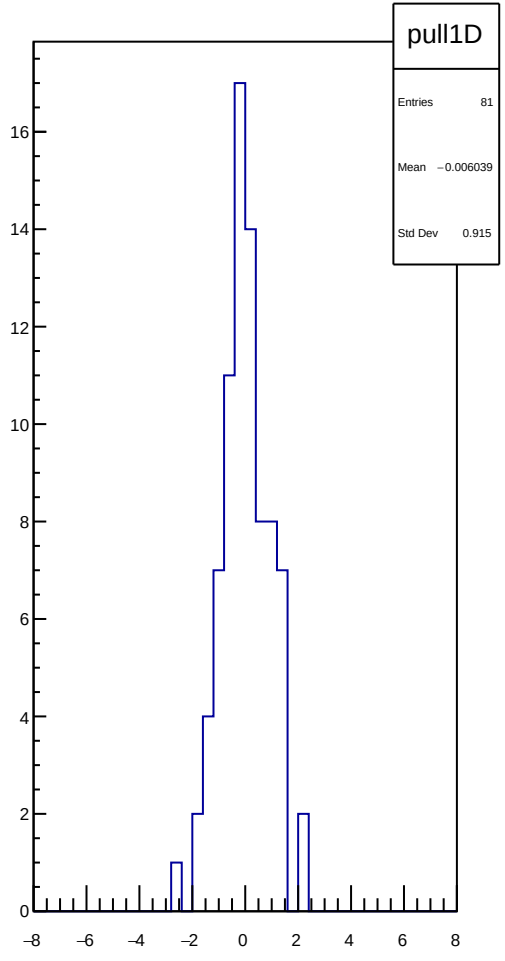

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.292e+04 / 80
p0 253.5 ± 0.2071
500
450
400
350
300
250
200
150

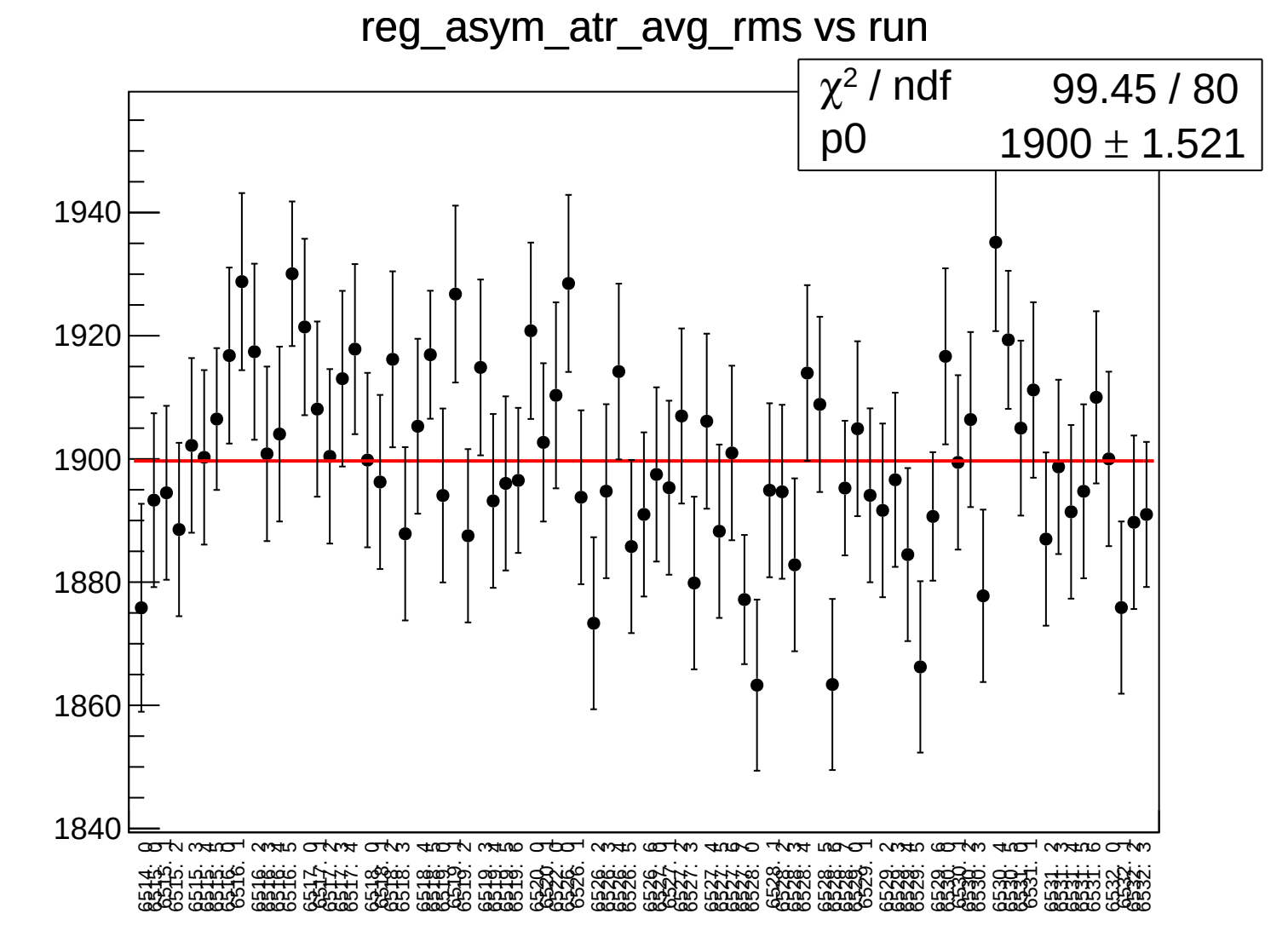

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.75 / 80
p0 −3.792e−14 ± 6.774e−14
pull
Entries 81
Mean 69.57
Std Dev 0

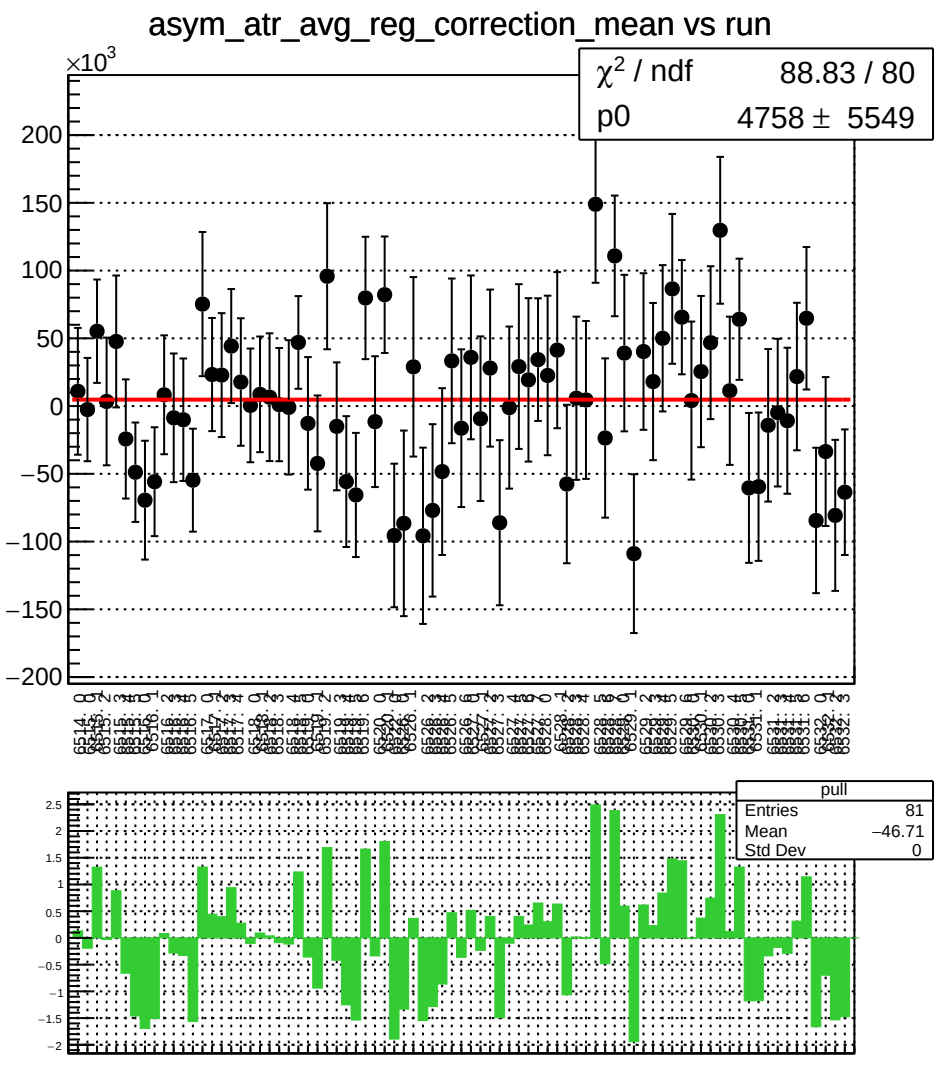

pull1D
Entries 81
Mean −0.08477
Std Dev 1.019

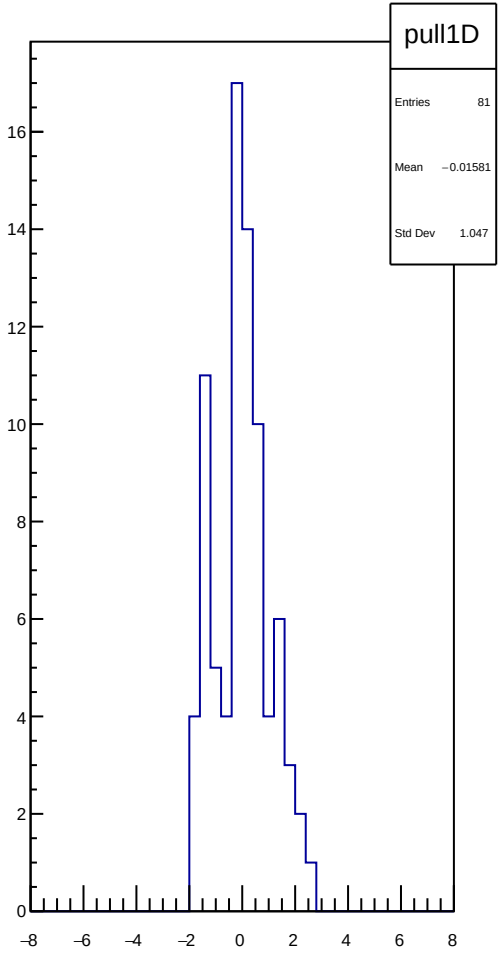

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.424e+05 / 80
p0 4.591e−11 ± 4.79e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

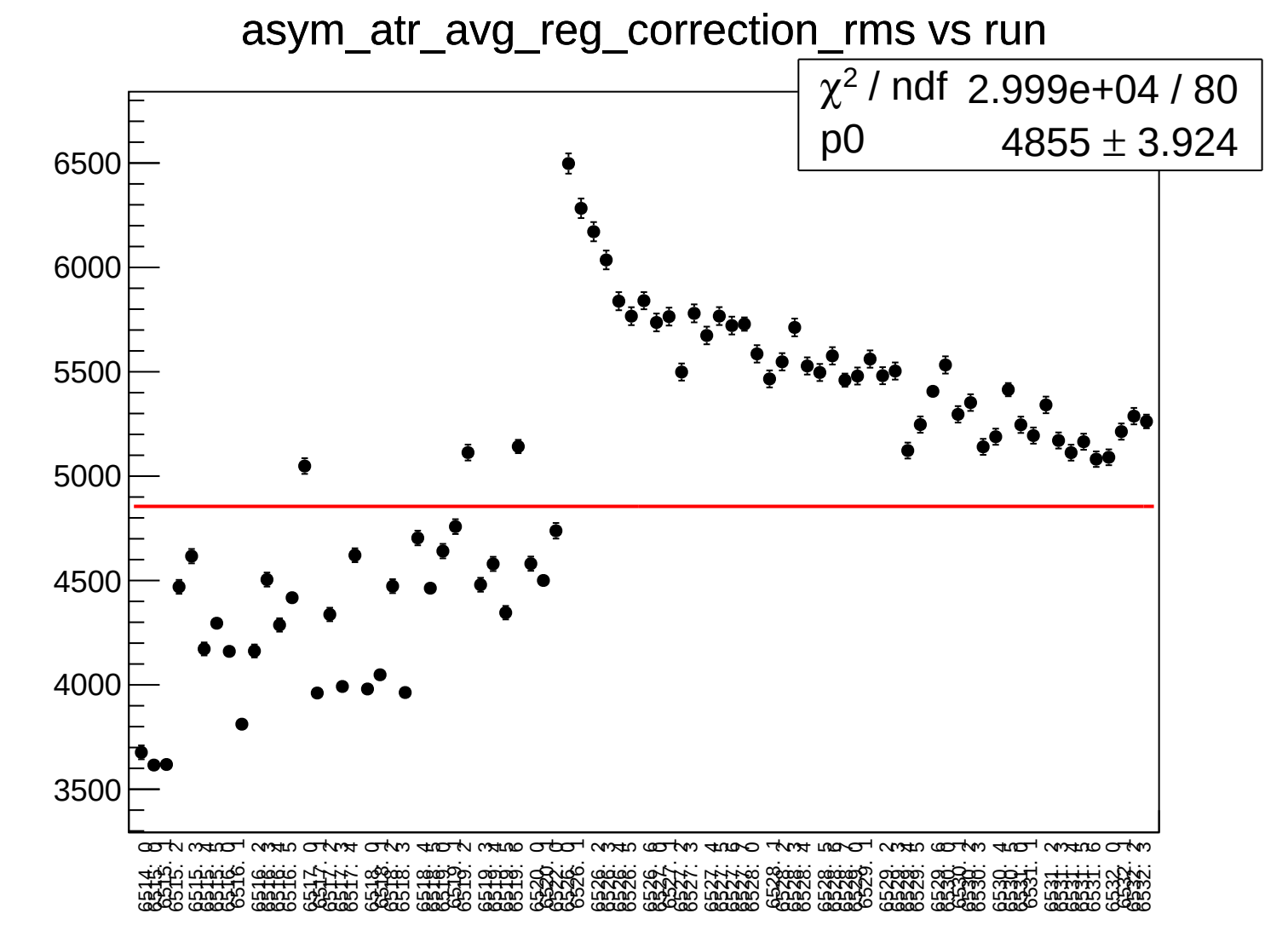

reg_asym_atr_avg_mean vs run
χ² / ndf 67.82 / 80
p0 2022 ± 2150
pull
Entries 81
Mean 171
Std Dev 0

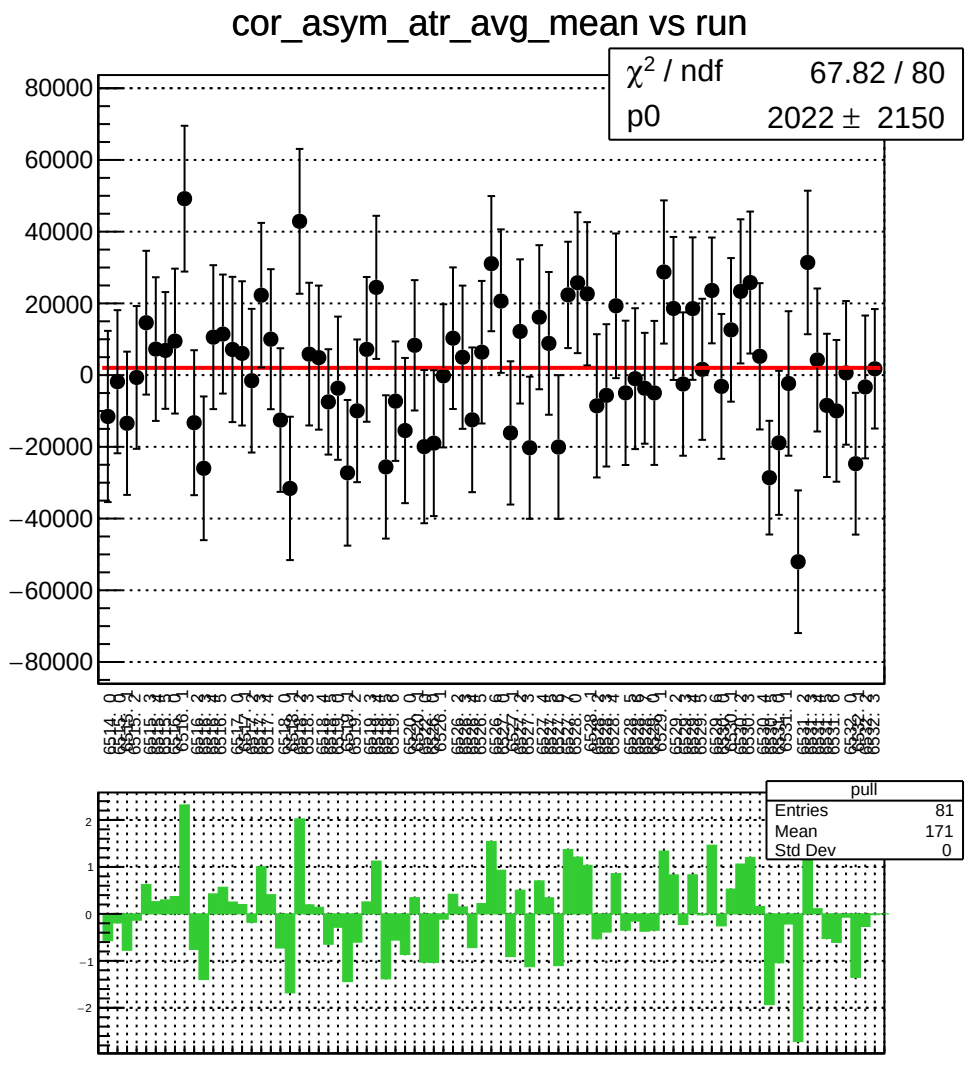

pull1D
Entries 81
Mean −0.006039
Std Dev 0.915

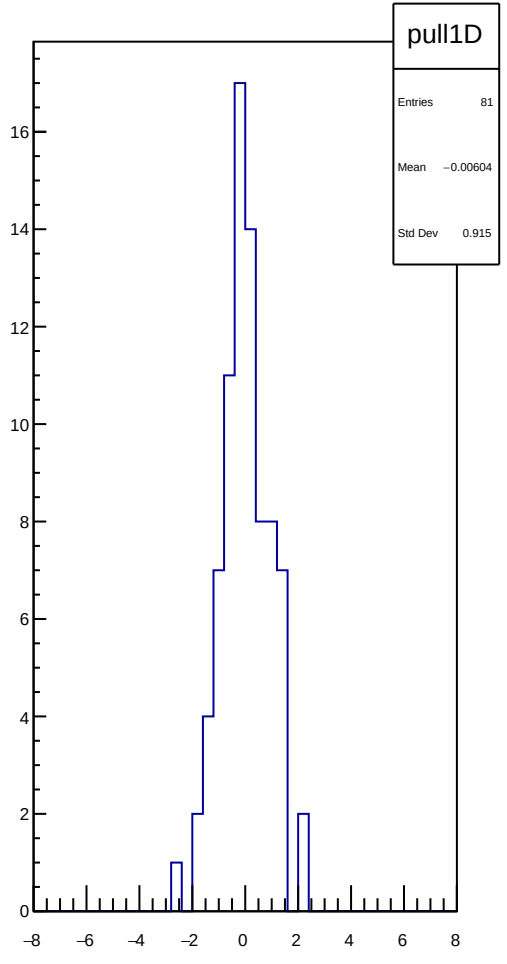

reg_asym_atr_avg_rms vs run
χ² / ndf 99.45 / 80
p0 1900 ± 1.521
1940
1920
1900
1880
1860
1840

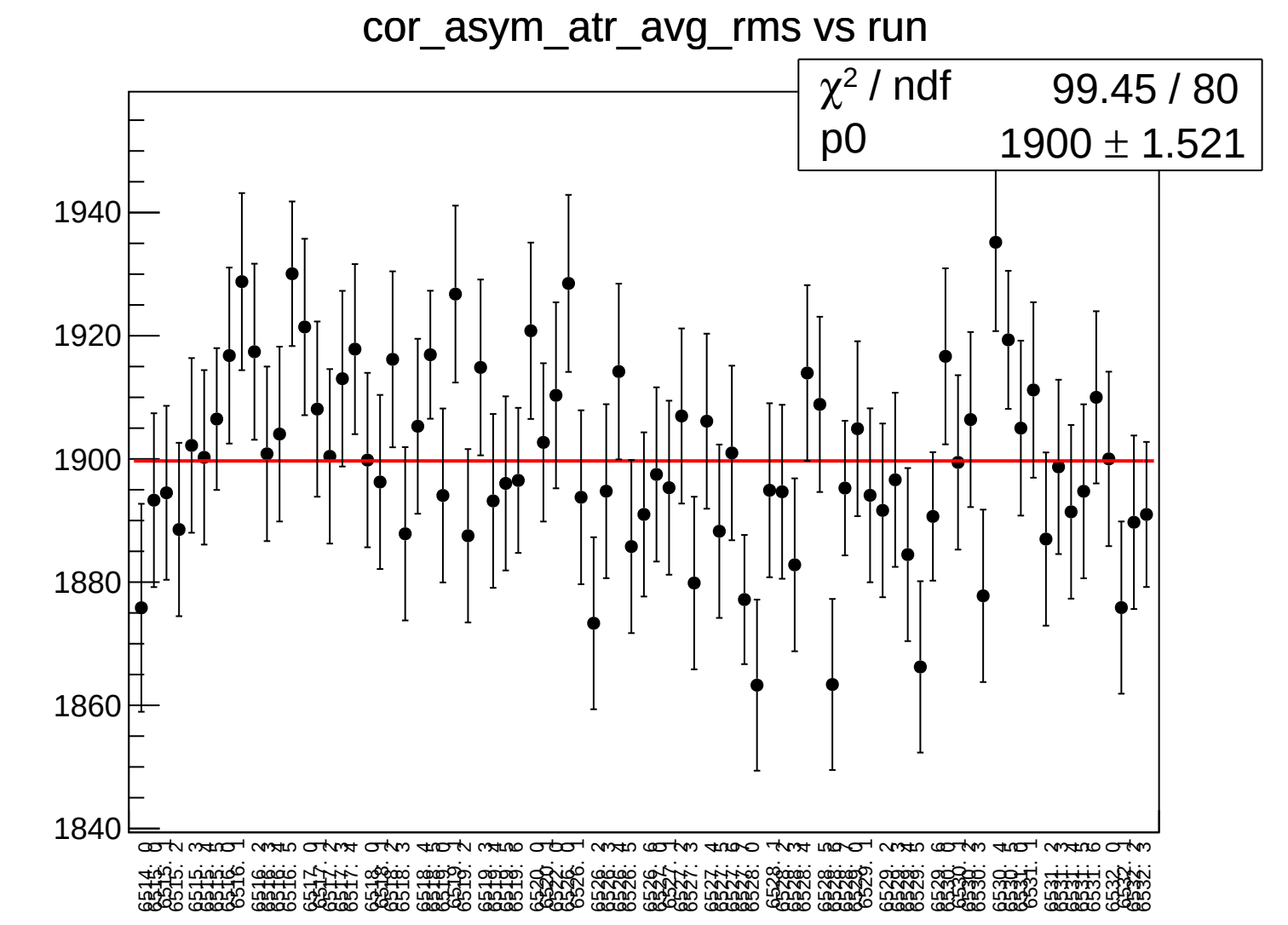

asym_atr_avg_reg_correction_mean vs run
×10^3
χ² / ndf 88.83 / 80
p0 4758 ± 5549
pull
Entries 81
Mean −46.71
Std Dev 0

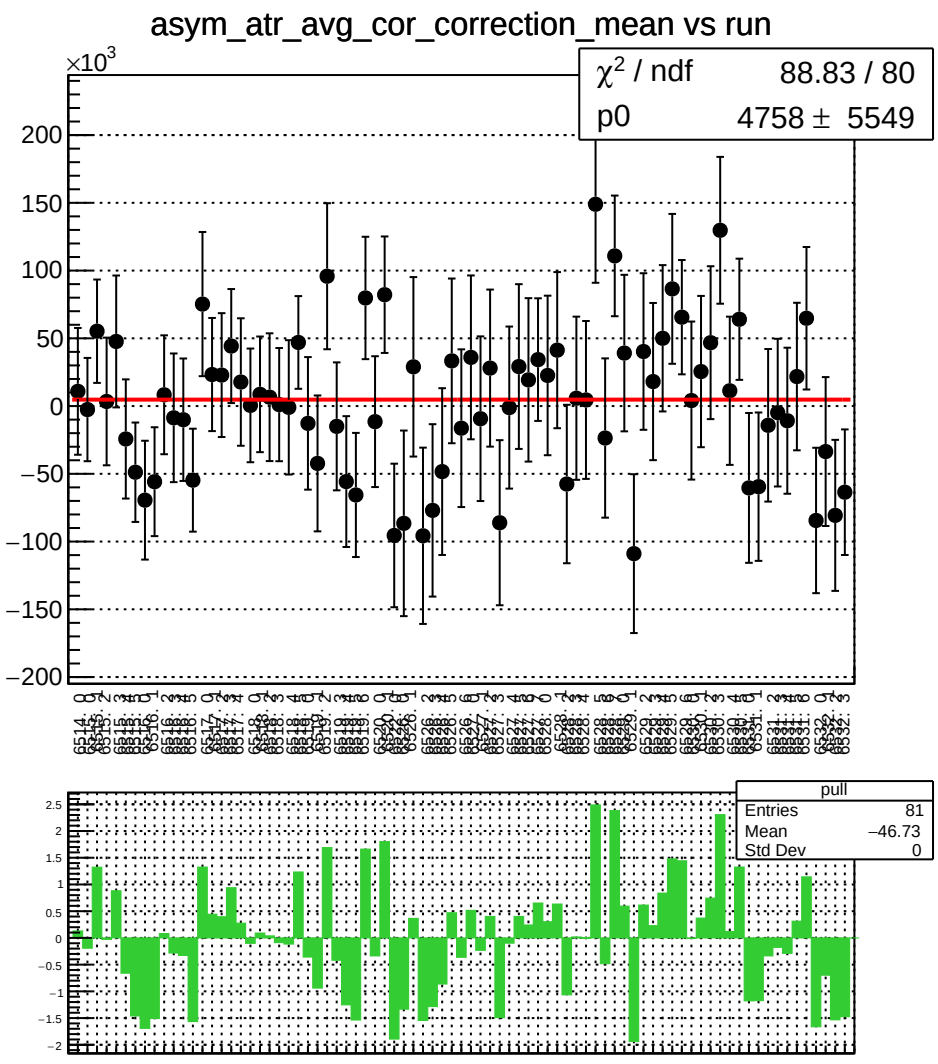

pull1D
Entries 81
Mean −0.01581
Std Dev 1.047

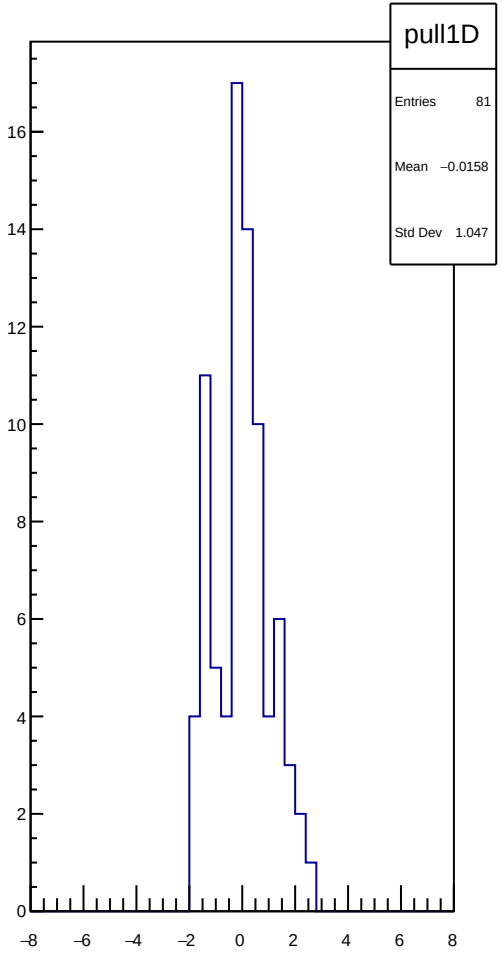

asym_atr_avg_reg_correction_rms vs run
χ² / ndf 2.999e+04 / 80
p0 4855 ± 3.924
6500
6000
5500
5000
4500
4000
3500

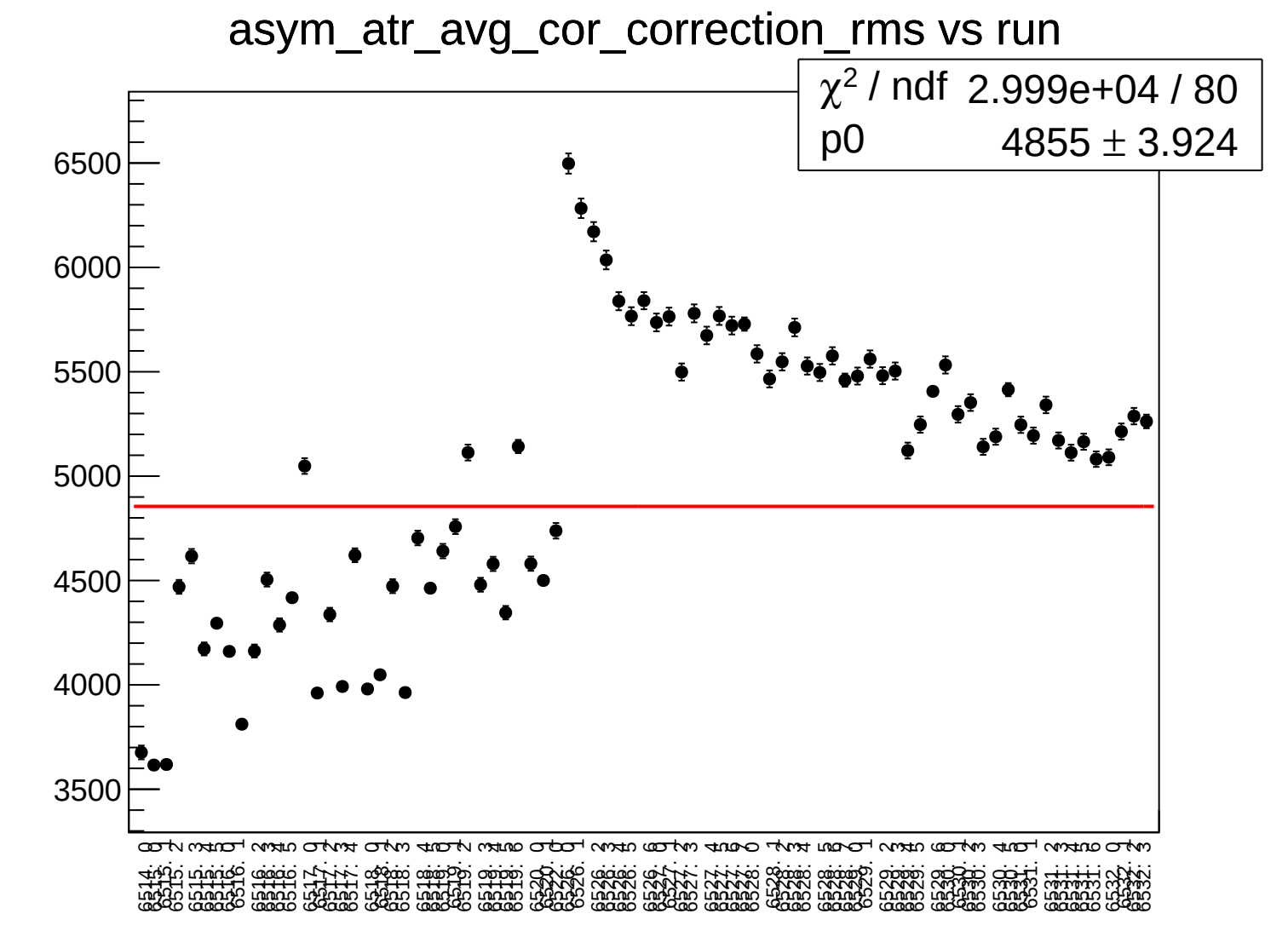

cor_asym_atr_avg_mean vs run
χ² / ndf 67.82 / 80
p0 2022 ± 2150
pull
Entries 81
Mean 171
Std Dev 0

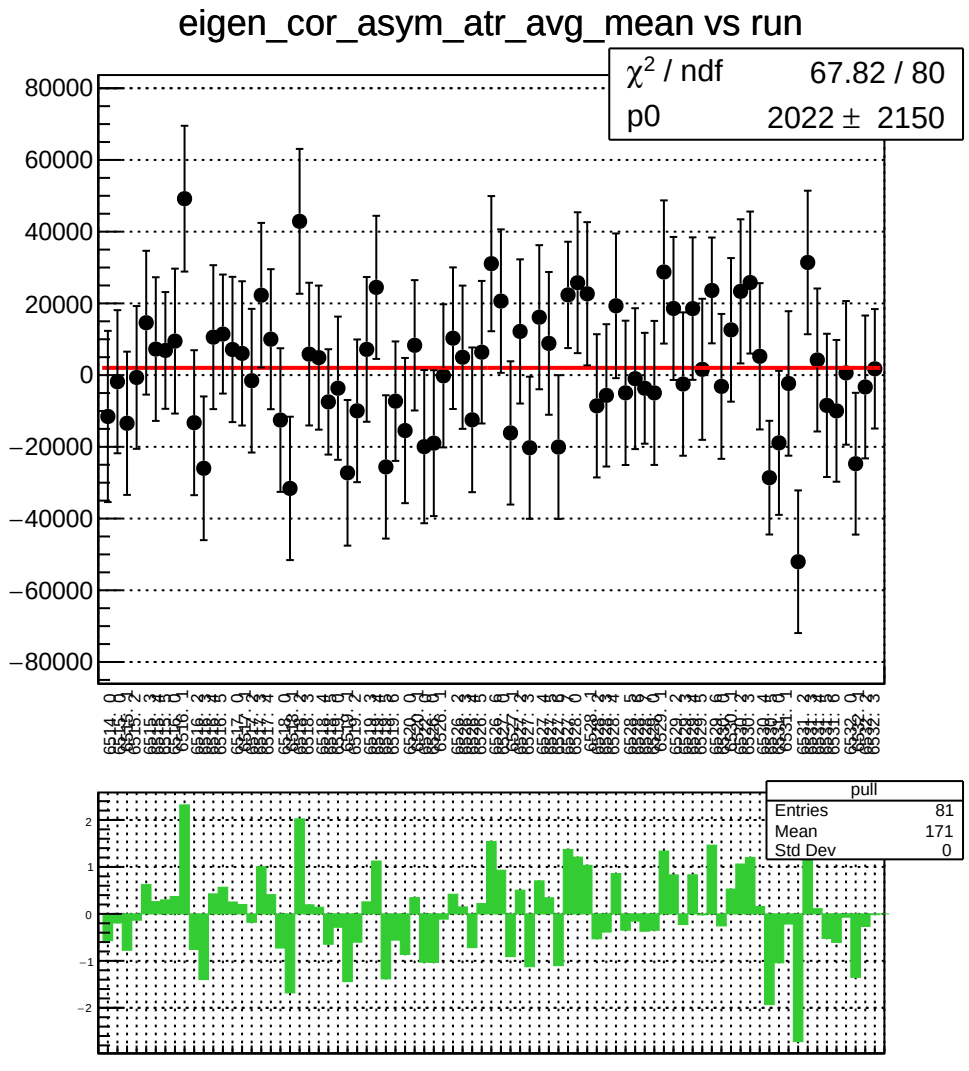

pull1D
Entries 81
Mean −0.00604
Std Dev 0.915

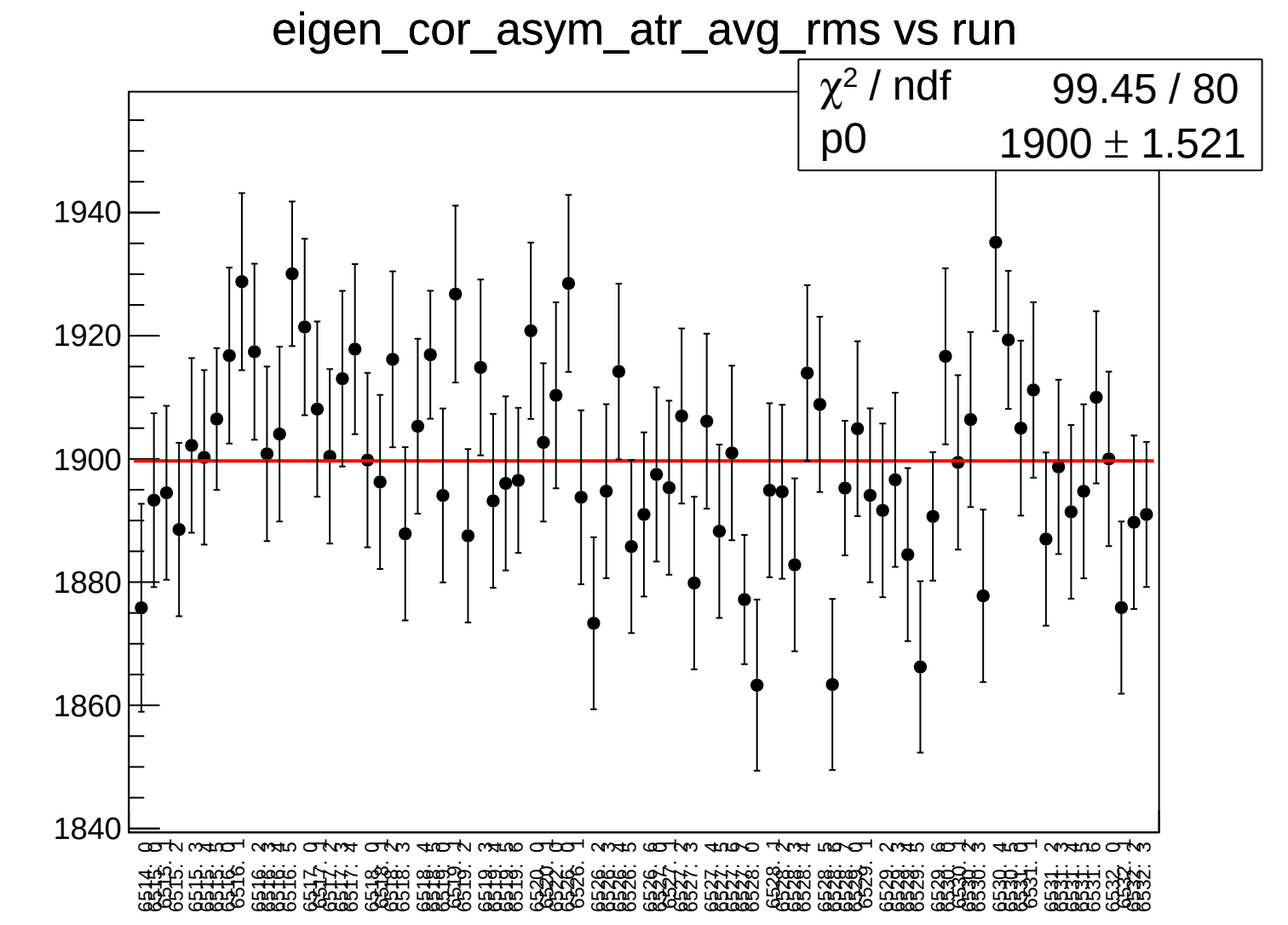

cor_asym_atr_avg_rms vs run
χ² / ndf 99.45 / 80
p0 1900 ± 1.521
1940
1920
1900
1880
1860
1840

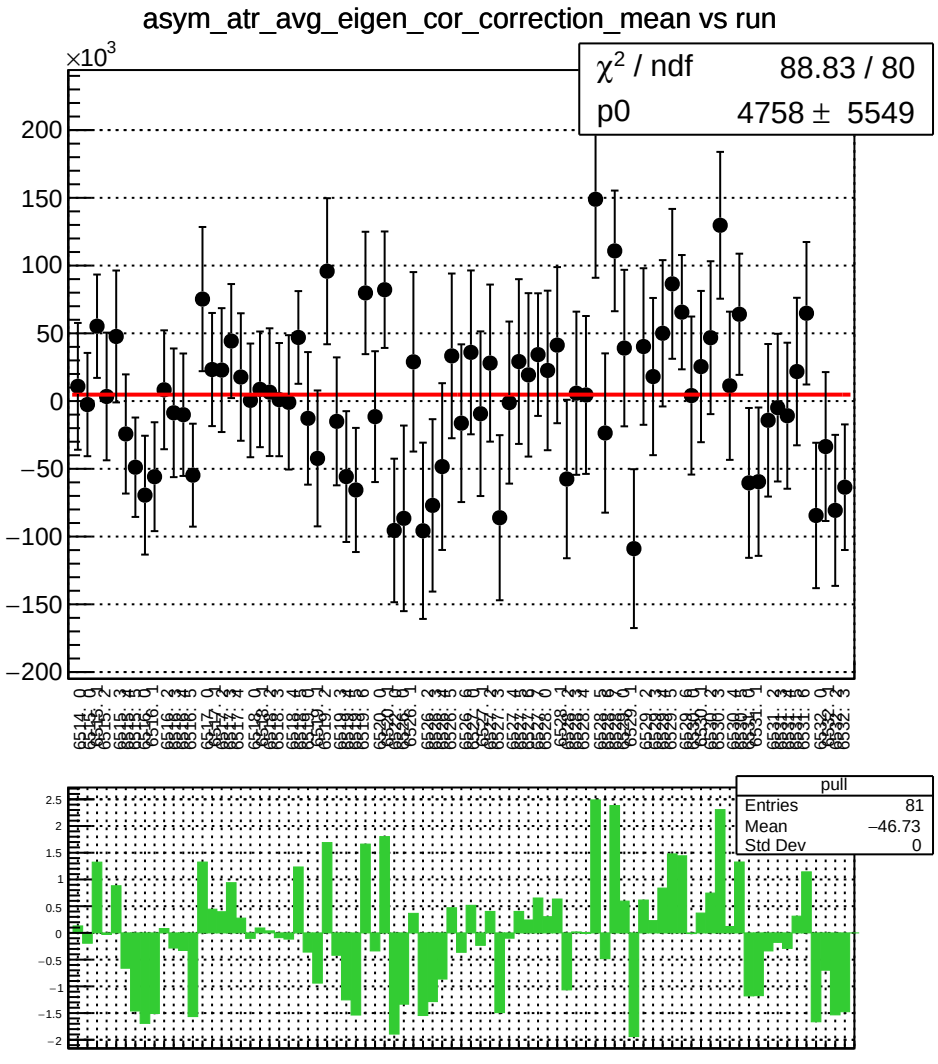

asym_atr_avg_cor_correction_mean vs run
×10^3
χ² / ndf 88.83 / 80
p0 4758 ± 5549
pull
Entries 81
Mean −46.73
Std Dev 0

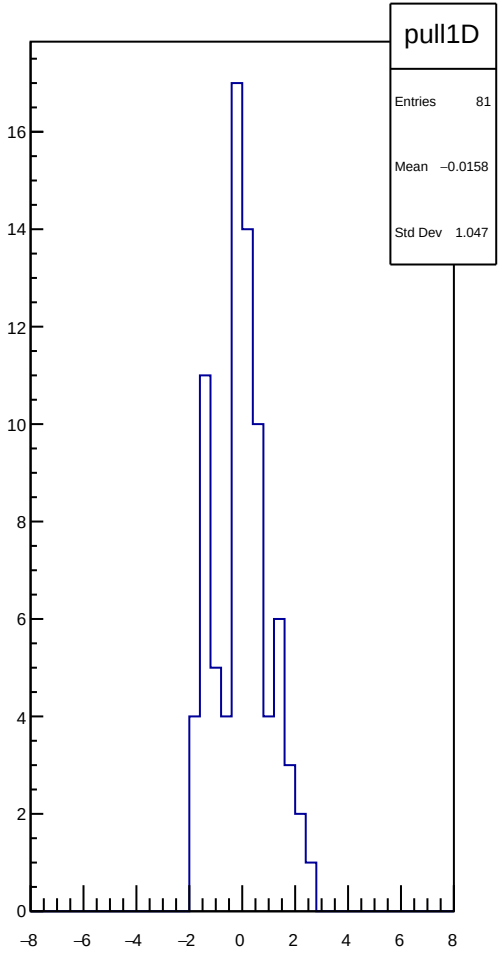

pull1D
Entries 81
Mean −0.0158
Std Dev 1.047

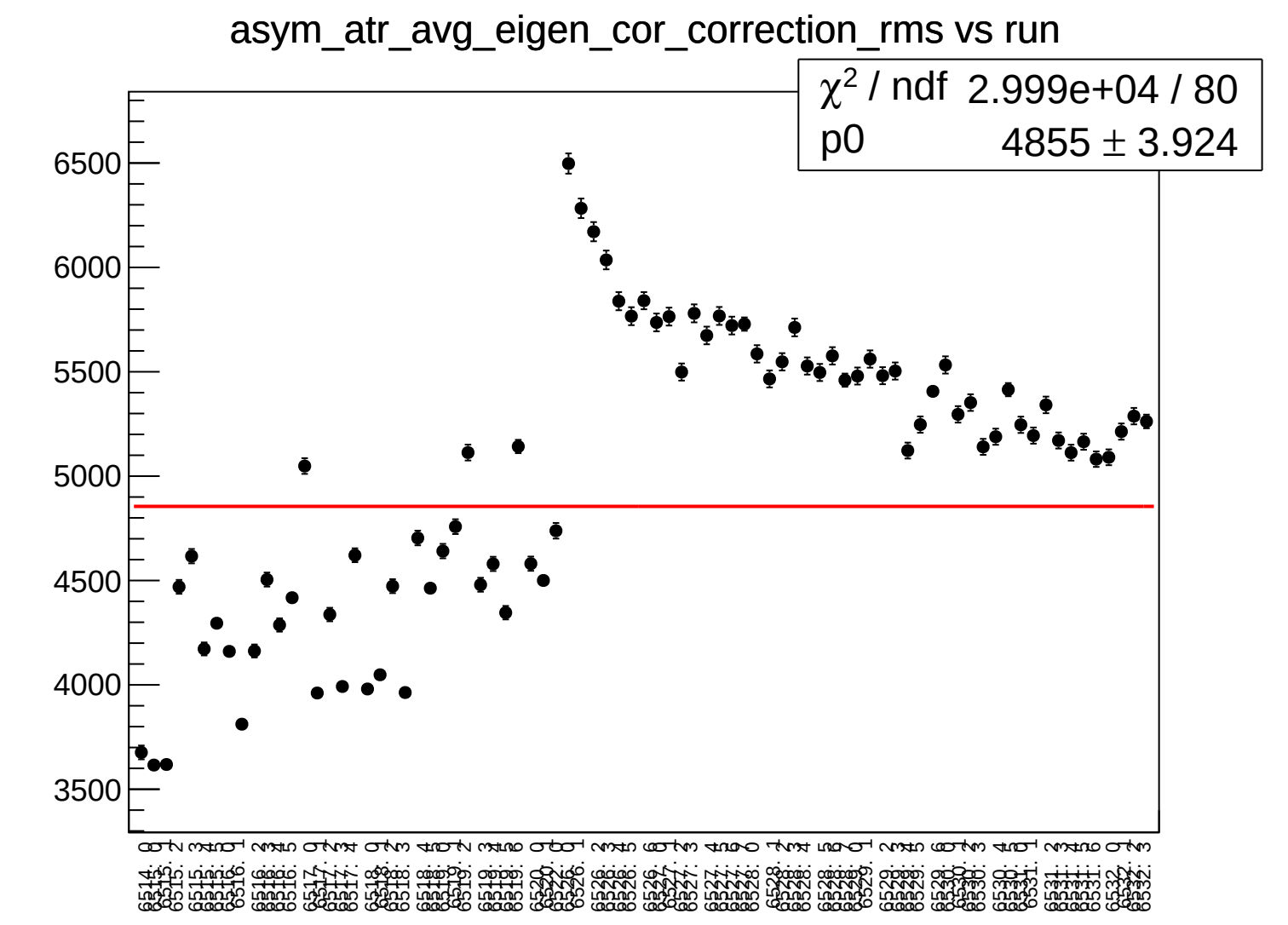

asym_atr_avg_cor_correction_rms vs run
χ² / ndf 2.999e+04 / 80
p0 4855 ± 3.924
6500
6000
5500
5000
4500
4000
3500

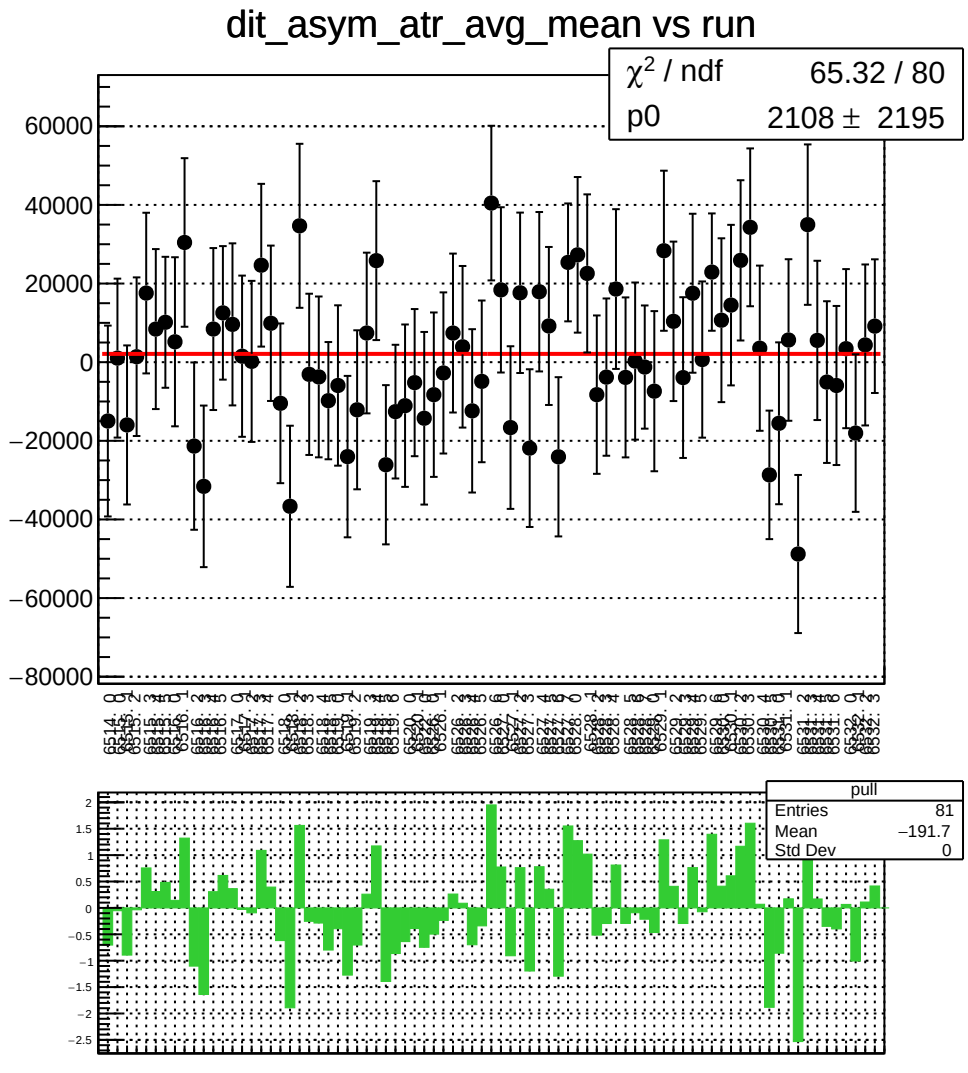

eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 67.82 / 80
p0 2022 ± 2150
pull
Entries 81
Mean 171
Std Dev 0
pull1D
Entries 81
Mean −0.00604
Std Dev 0.915

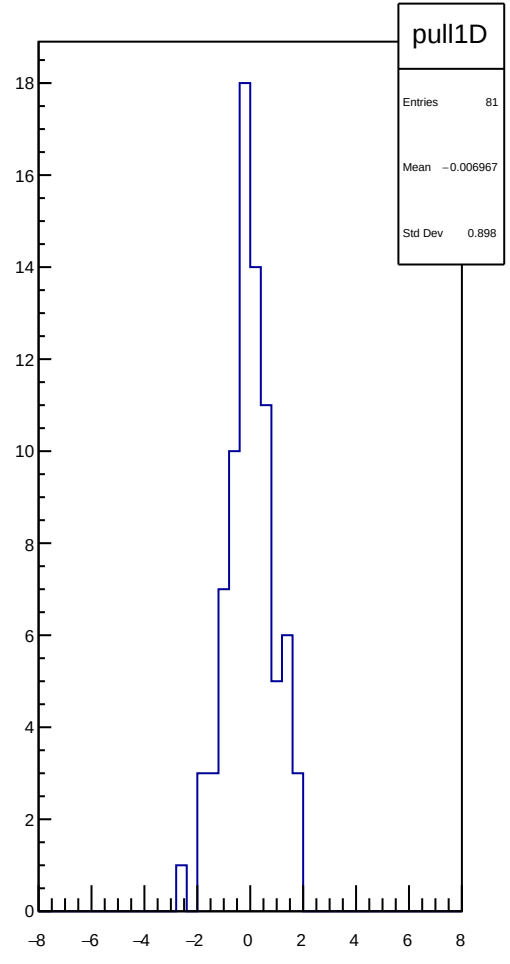

eigen_cor_asym_atr_avg_rms vs run
χ² / ndf 99.45 / 80
p0 1900 ± 1.521
1940
1920
1900
1880
1860
1840

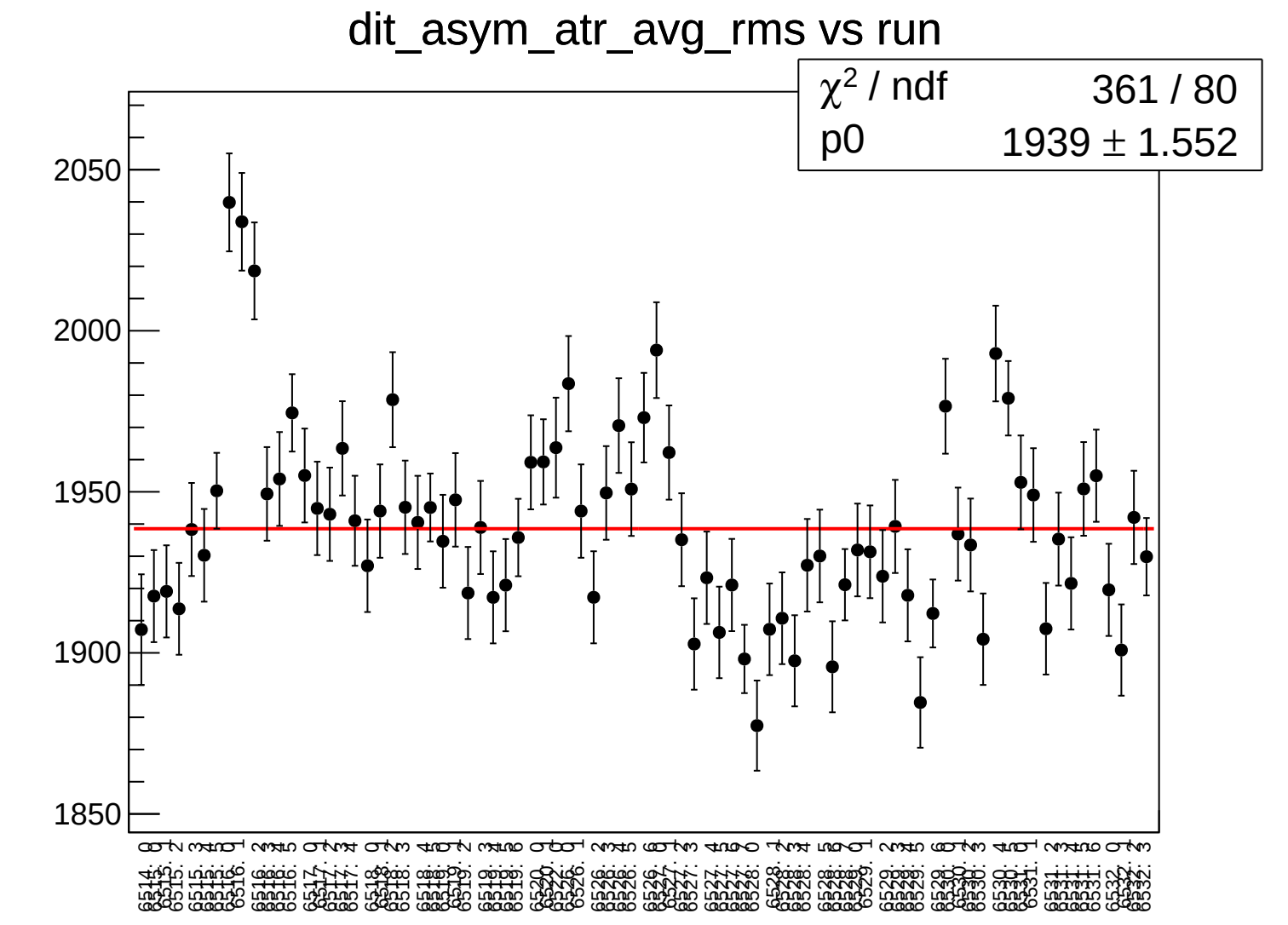

asym_atr_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 88.83 / 80
p0 4758 ± 5549
pull
Entries 81
Mean −46.73
Std Dev 0

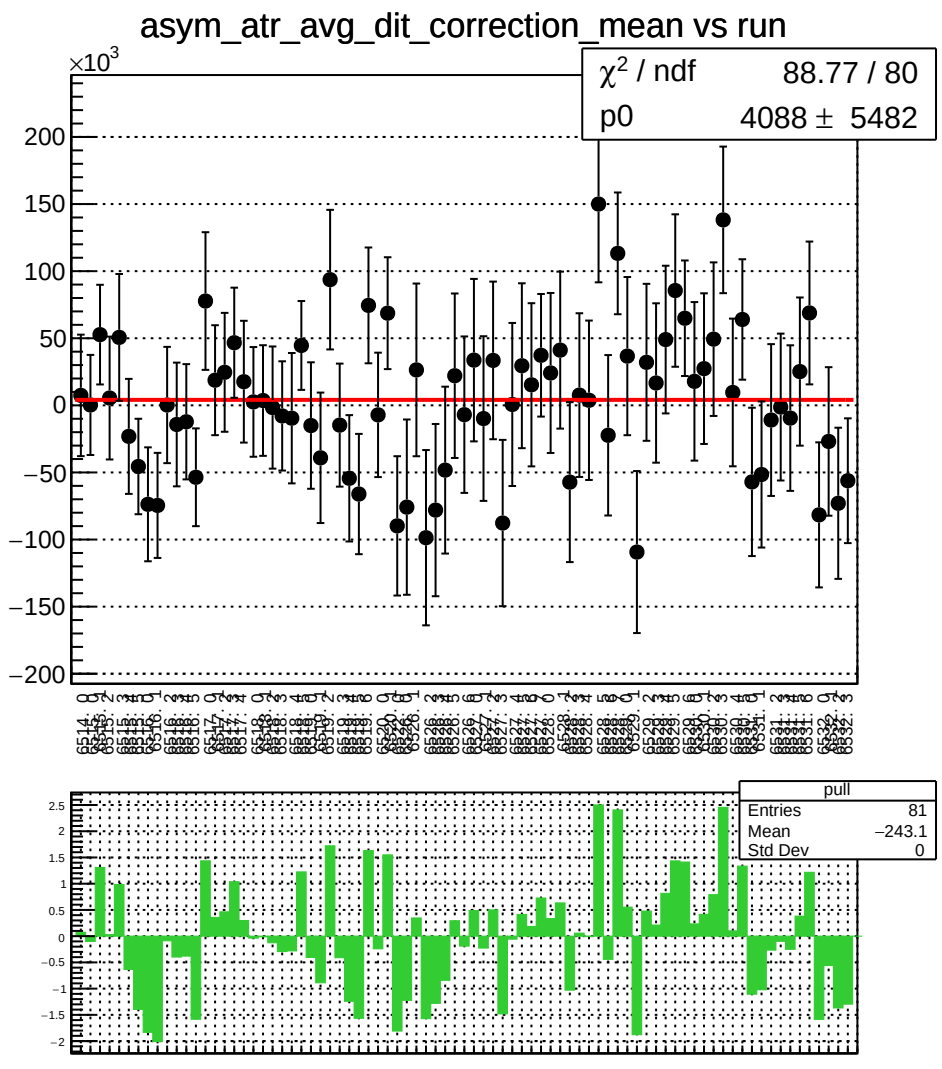

pull1D
Entries 81
Mean −0.0158
Std Dev 1.047

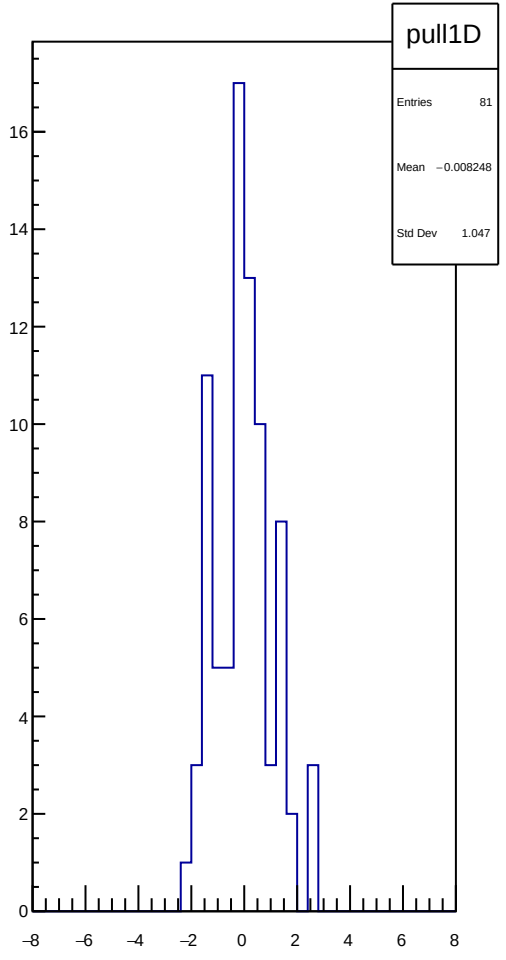

asym_atr_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.999e+04 / 80
p0 4855 ± 3.924
6500
6000
5500
5000
4500
4000
3500

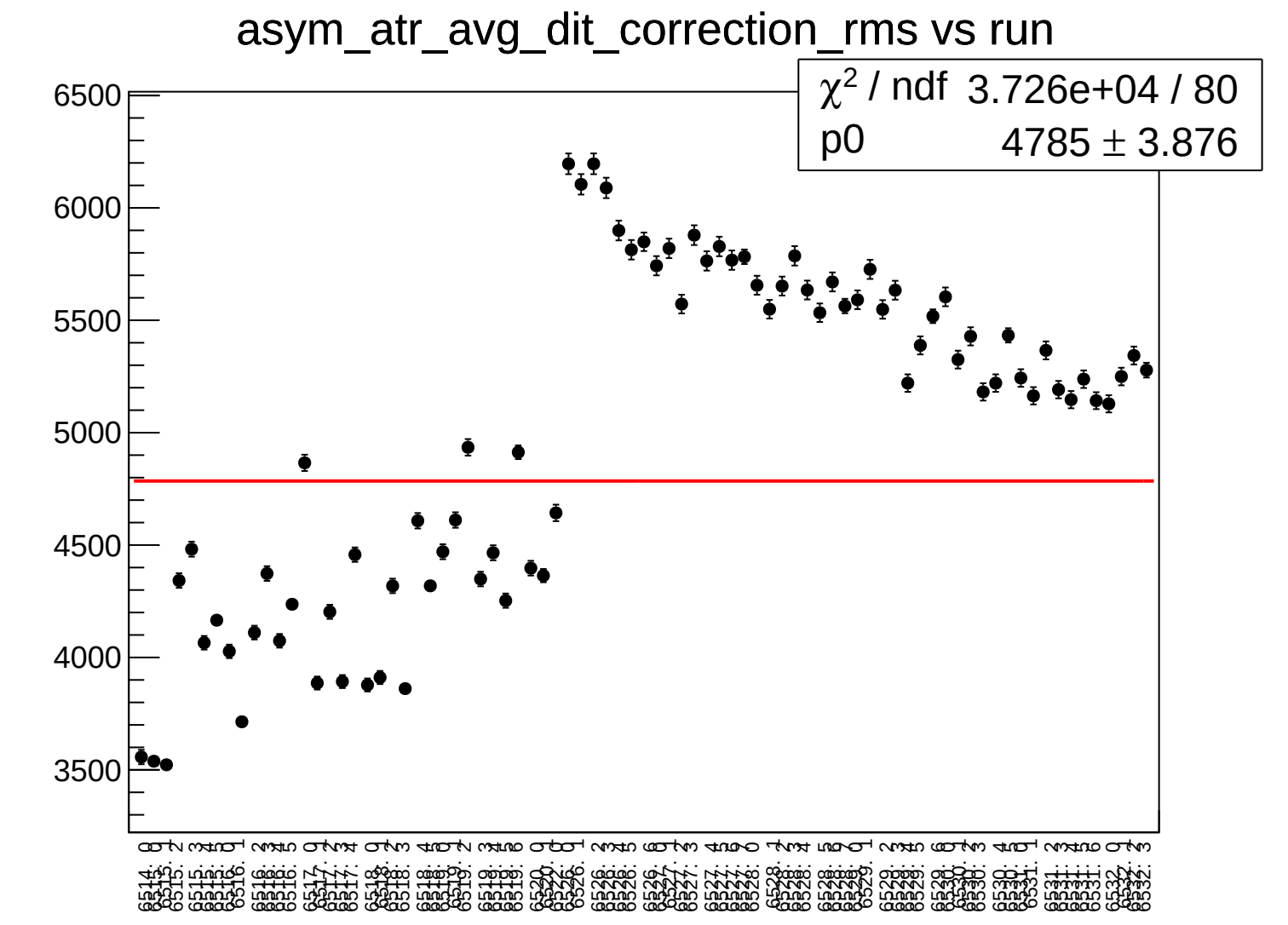

dit_asym_atr_avg_mean vs run
χ² / ndf 65.32 / 80
p0 2108 ± 2195
pull
Entries 81
Mean −191.7
Std Dev 0

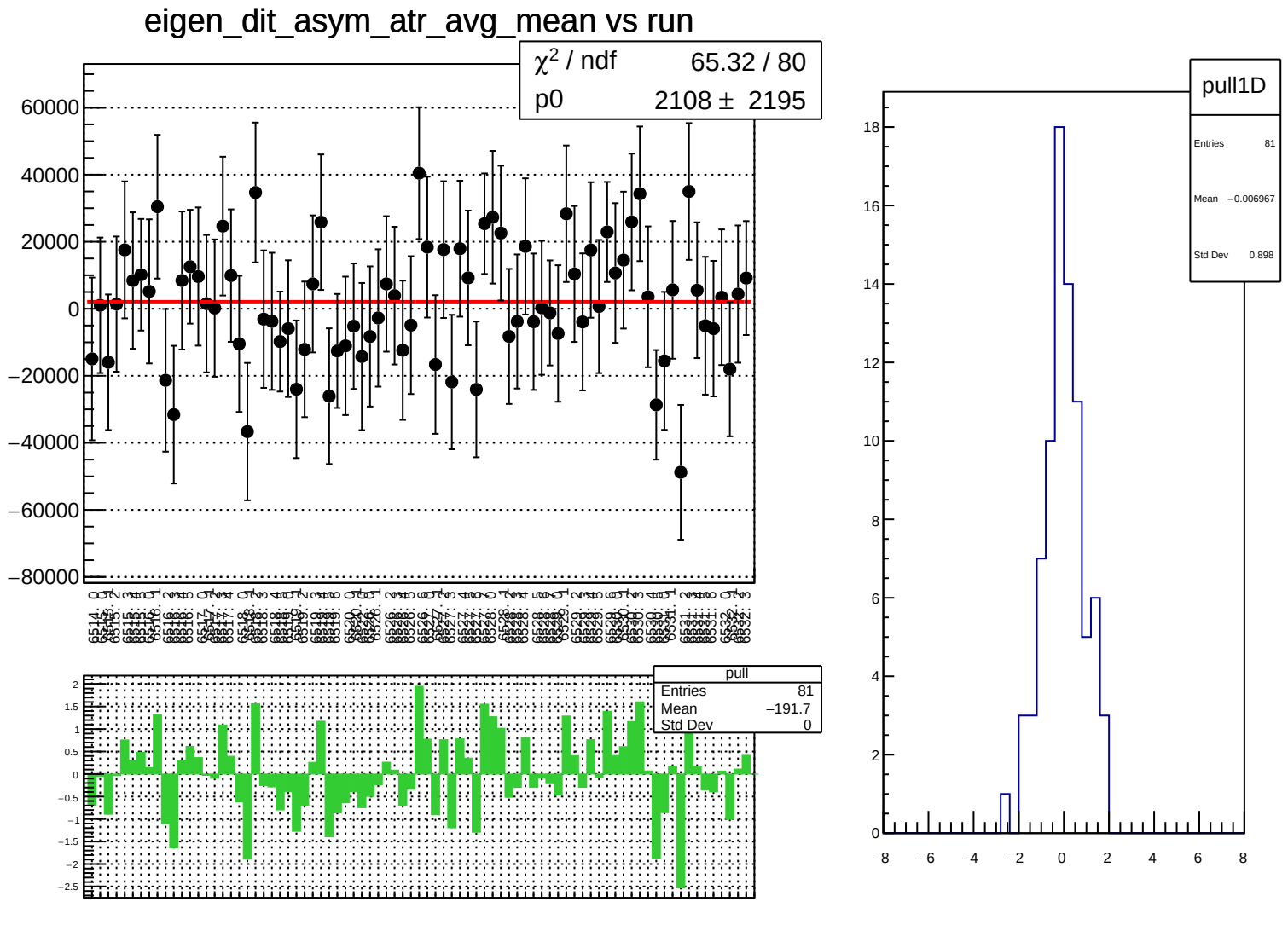

pull1D
Entries 81
Mean −0.006967
Std Dev 0.898

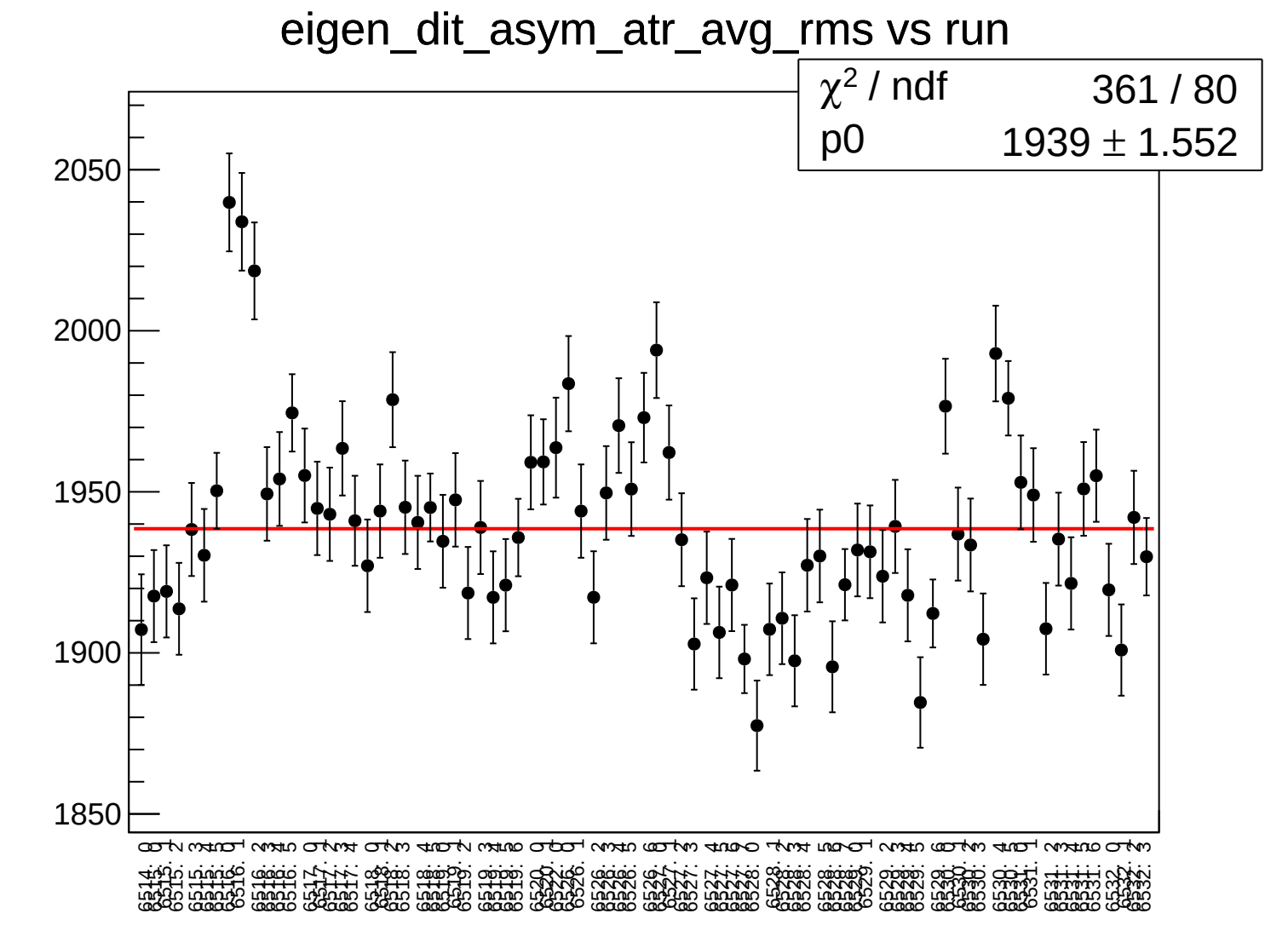

dit_asym_atr_avg_rms vs run
χ² / ndf 361 / 80
p0 1939 ± 1.552
2050
2000
1950
1900
1850

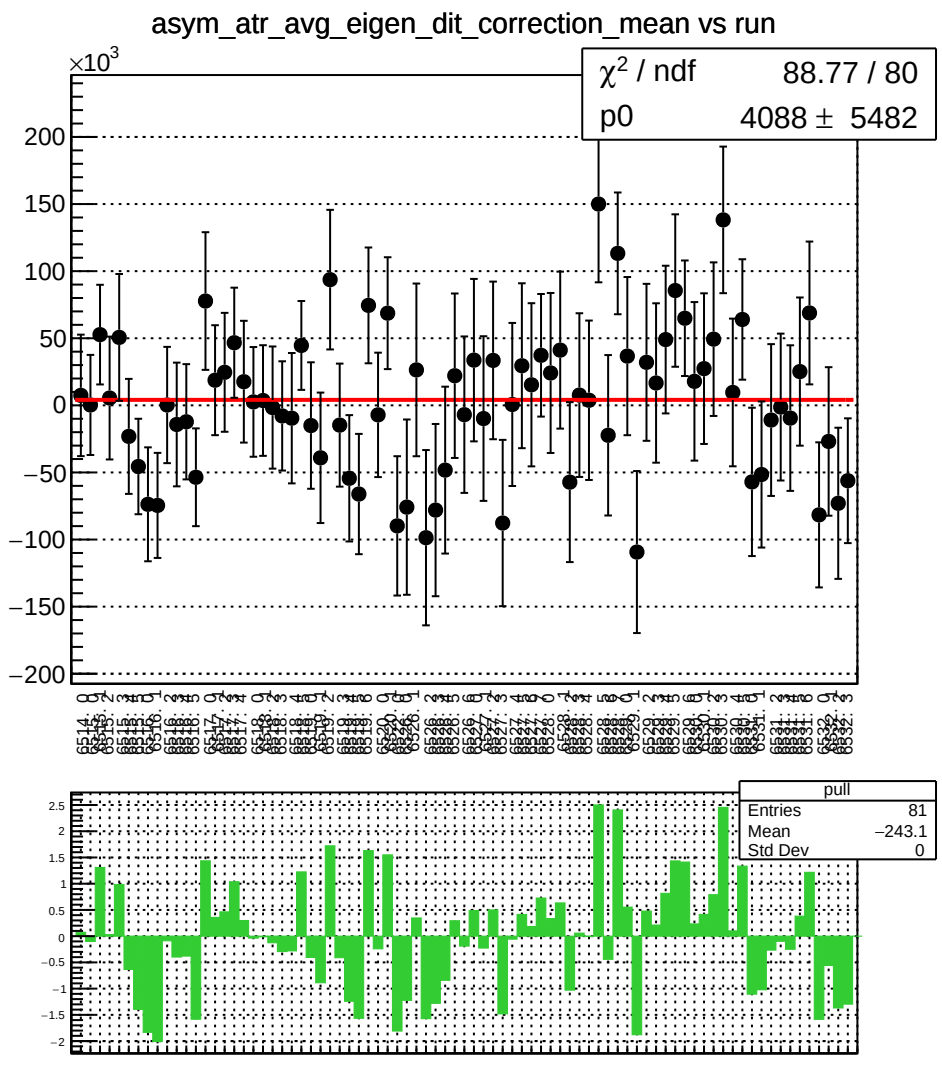

asym_atr_avg_dit_correction_mean vs run
×10^3
χ² / ndf 88.77 / 80
p0 4088 ± 5482
pull
Entries 81
Mean −243.1
Std Dev 0

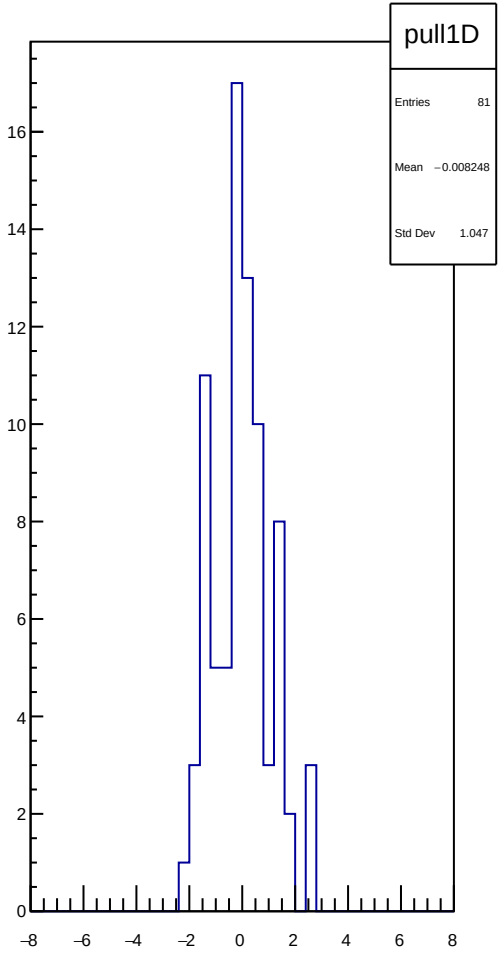

pull1D
Entries 81
Mean −0.008248
Std Dev 1.047

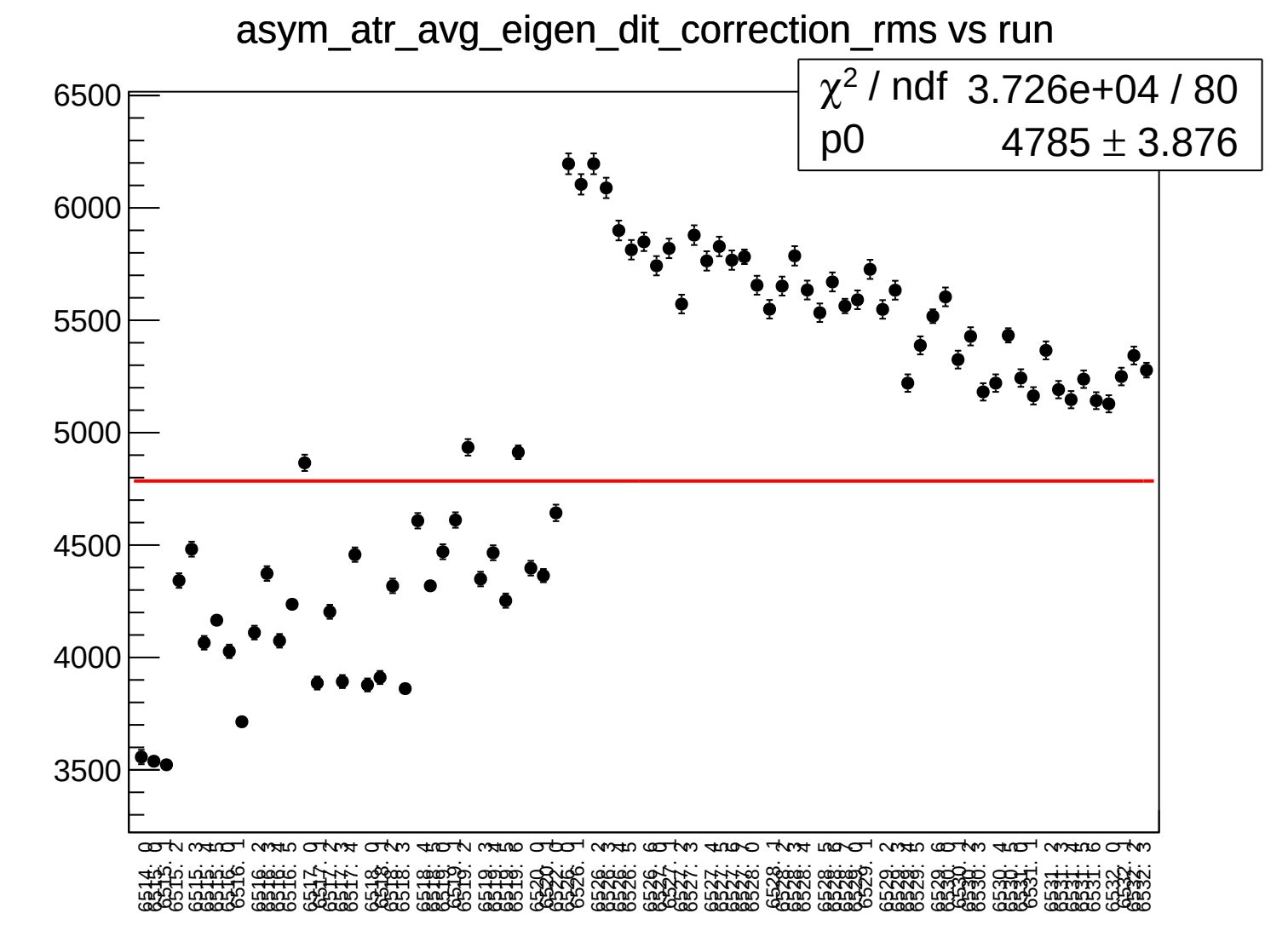

asym_atr_avg_dit_correction_rms vs run
χ² / ndf 3.726e+04 / 80
p0 4785 ± 3.876
6500
6000
5500
5000
4500
4000
3500

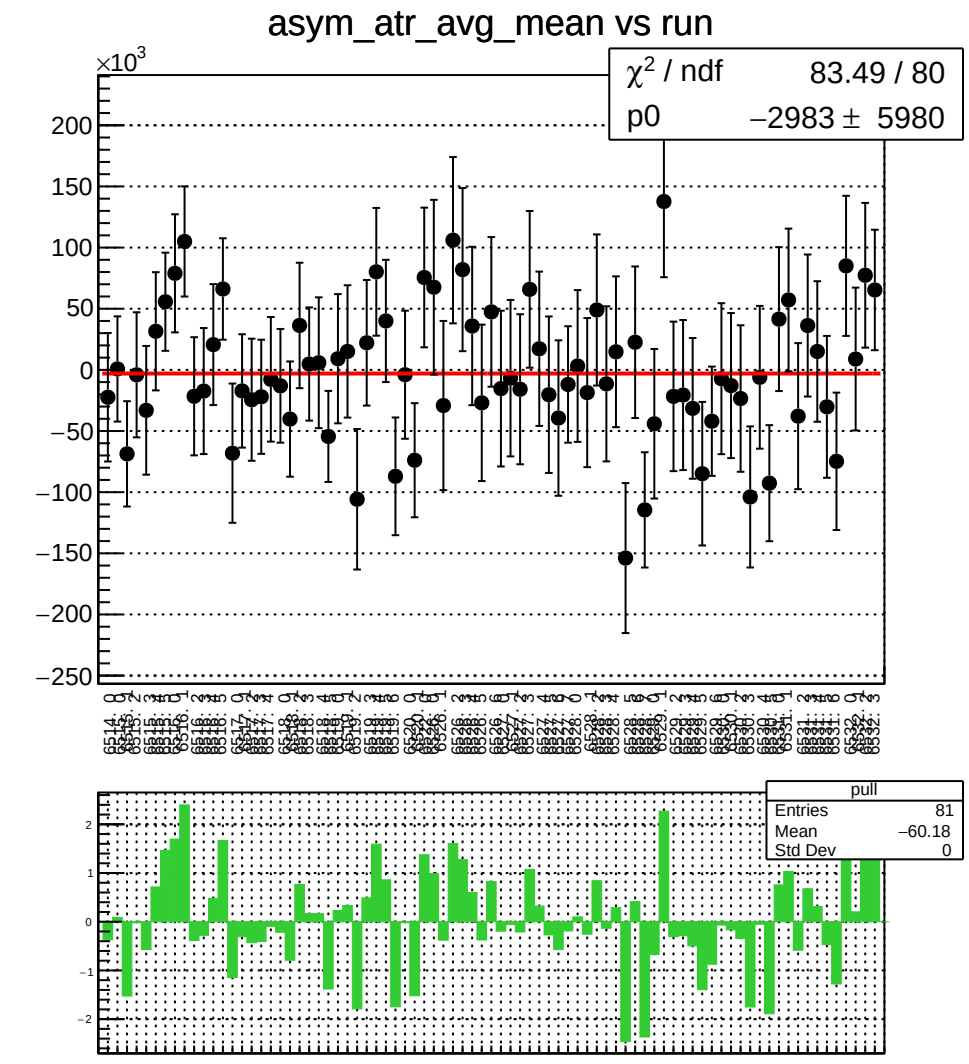

eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 65.32 / 80
p0 2108 ± 2195
pull
Entries 81
Mean −191.7
Std Dev 0
pull1D
Entries 81
Mean −0.006967
Std Dev 0.898

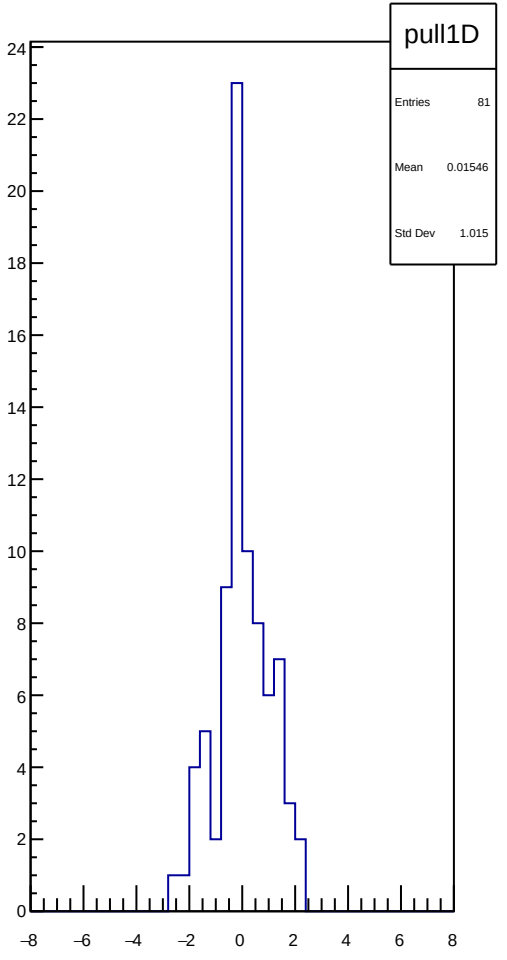

eigen_dit_asym_atr_avg_rms vs run
χ² / ndf 361 / 80
p0 1939 ± 1.552
2050
2000
1950
1900
1850

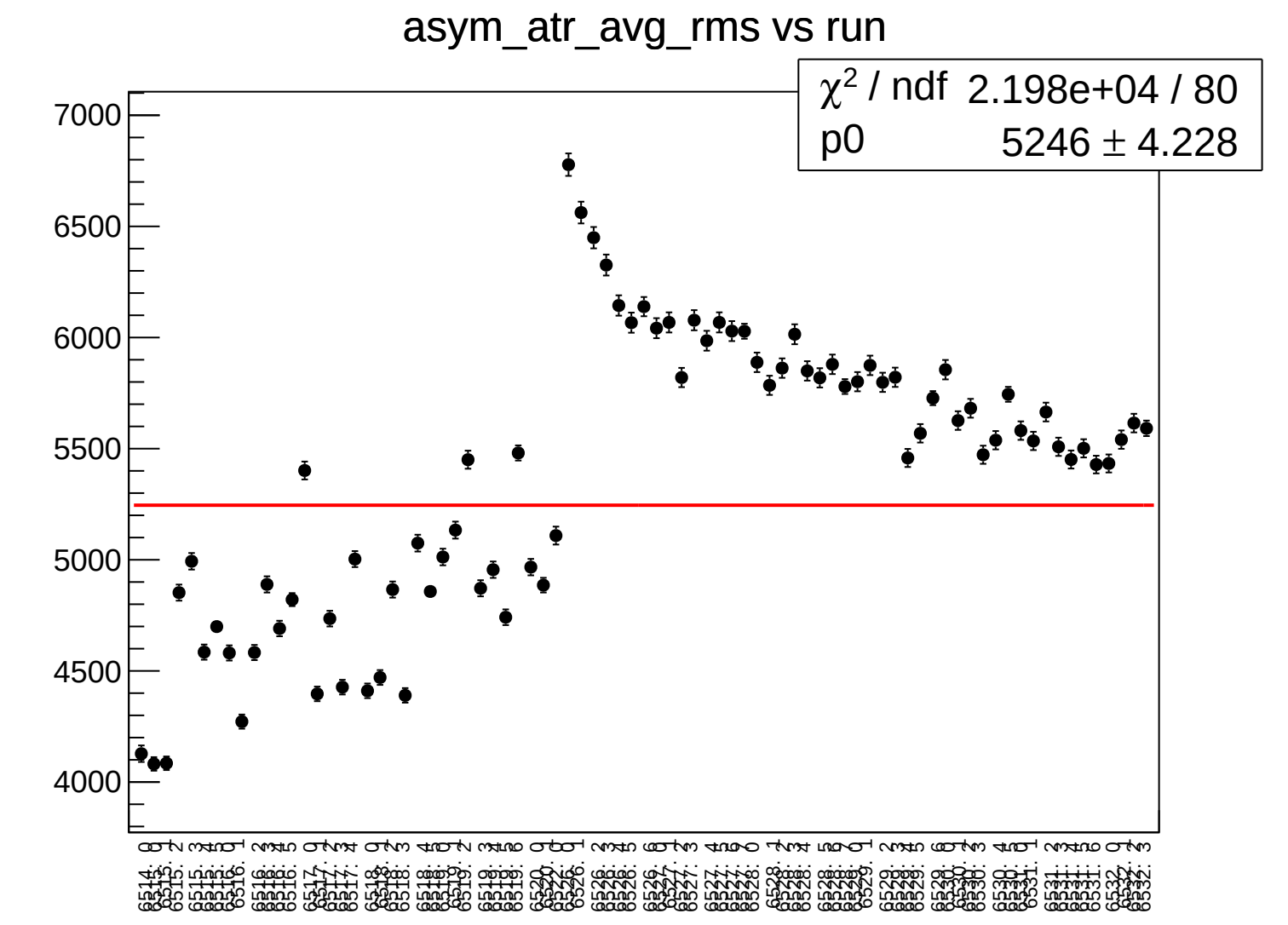

asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 88.77 / 80
p0 4088 ± 5482
pull
Entries 81
Mean −243.1
Std Dev 0

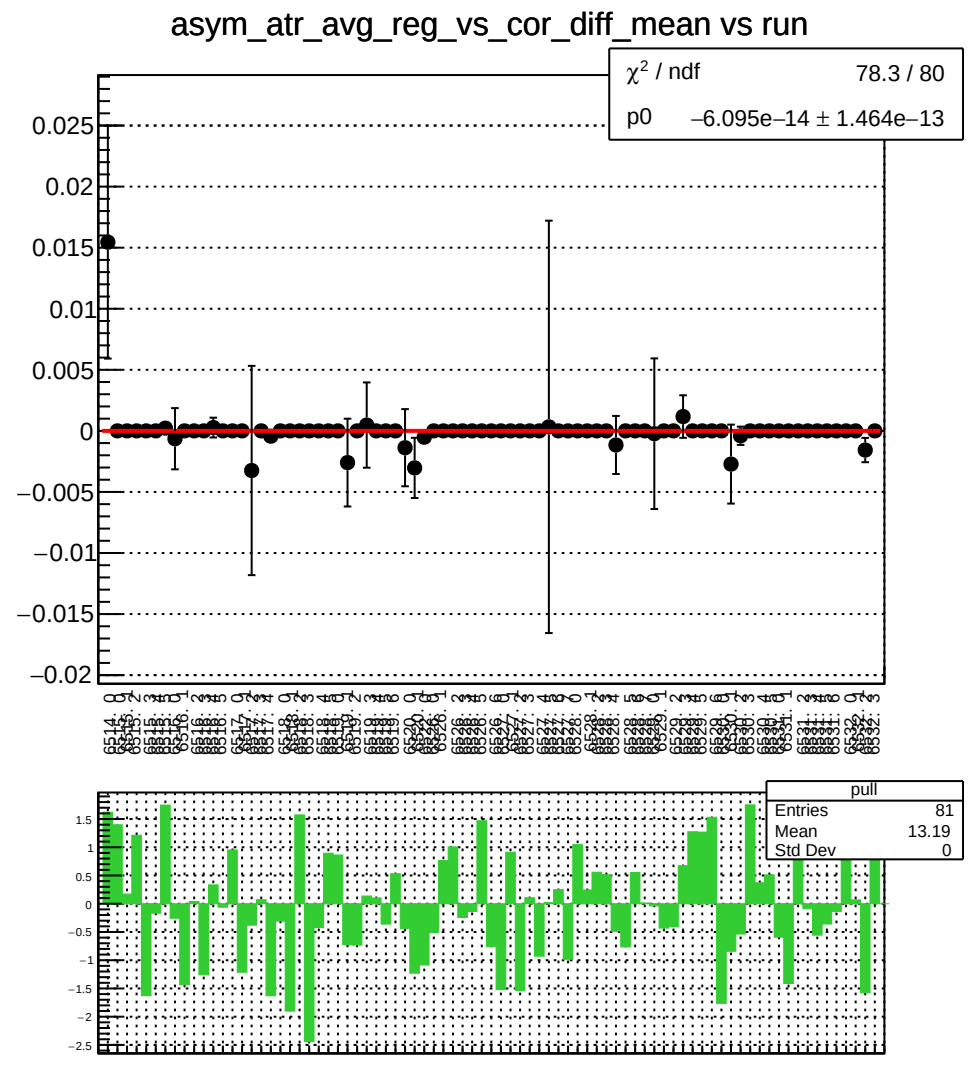

pull1D
Entries 81
Mean −0.008248
Std Dev 1.047

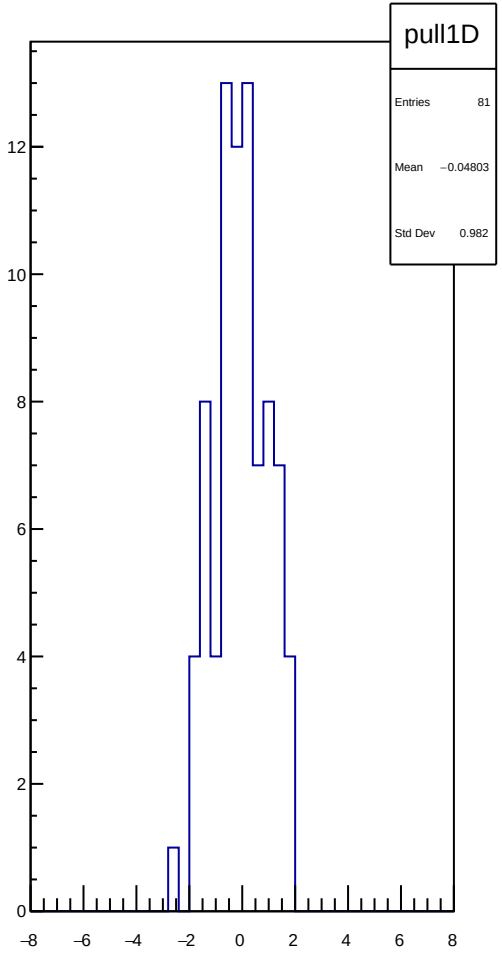

asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.726e+04 / 80
p0 4785 ± 3.876
6500
6000
5500
5000
4500
4000
3500

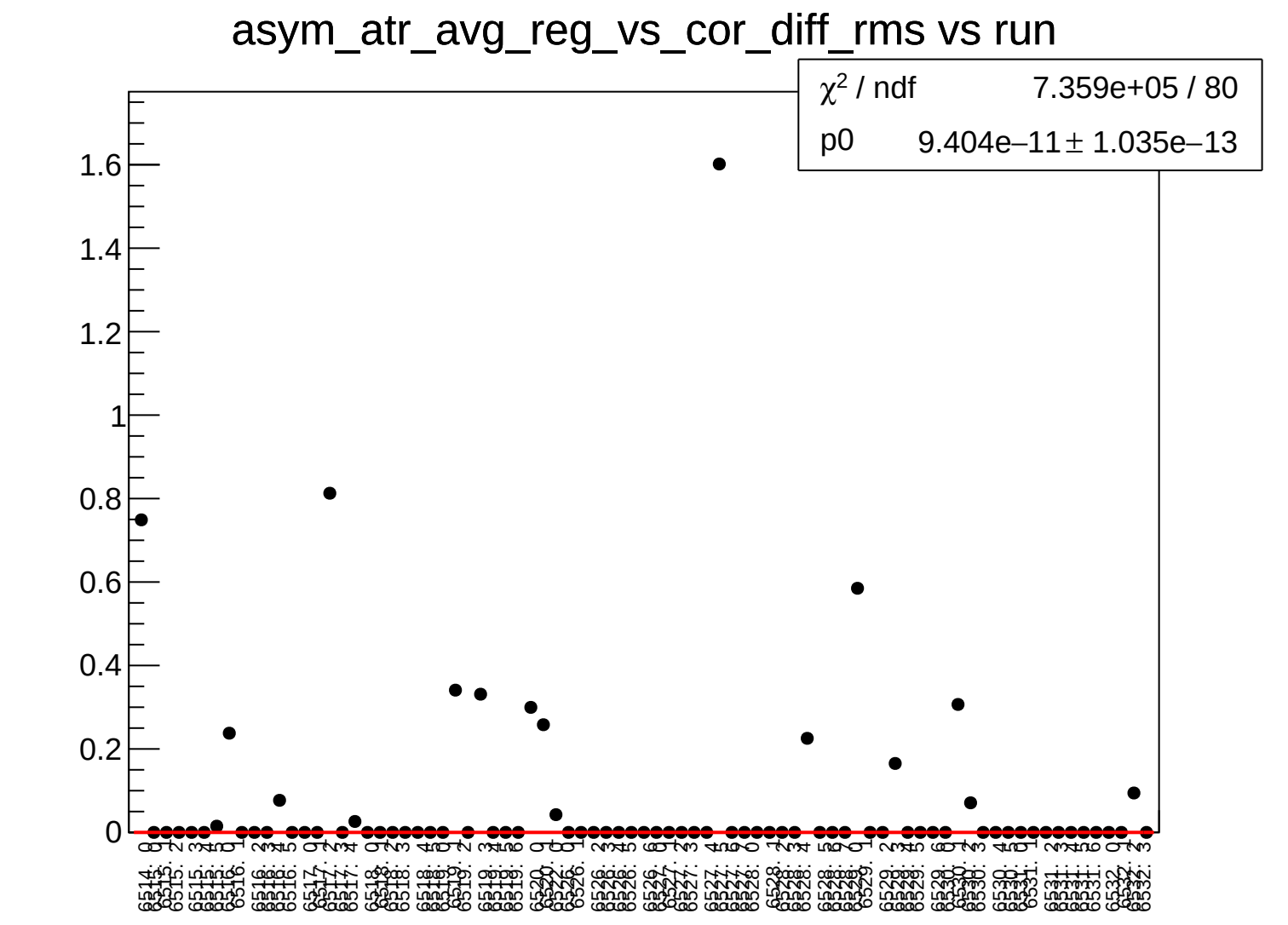

asym_atr_avg_mean vs run
×10^3
χ² / ndf 83.49 / 80
p0 −2983 ± 5980
pull
Entries 81
Mean −60.18
Std Dev 0

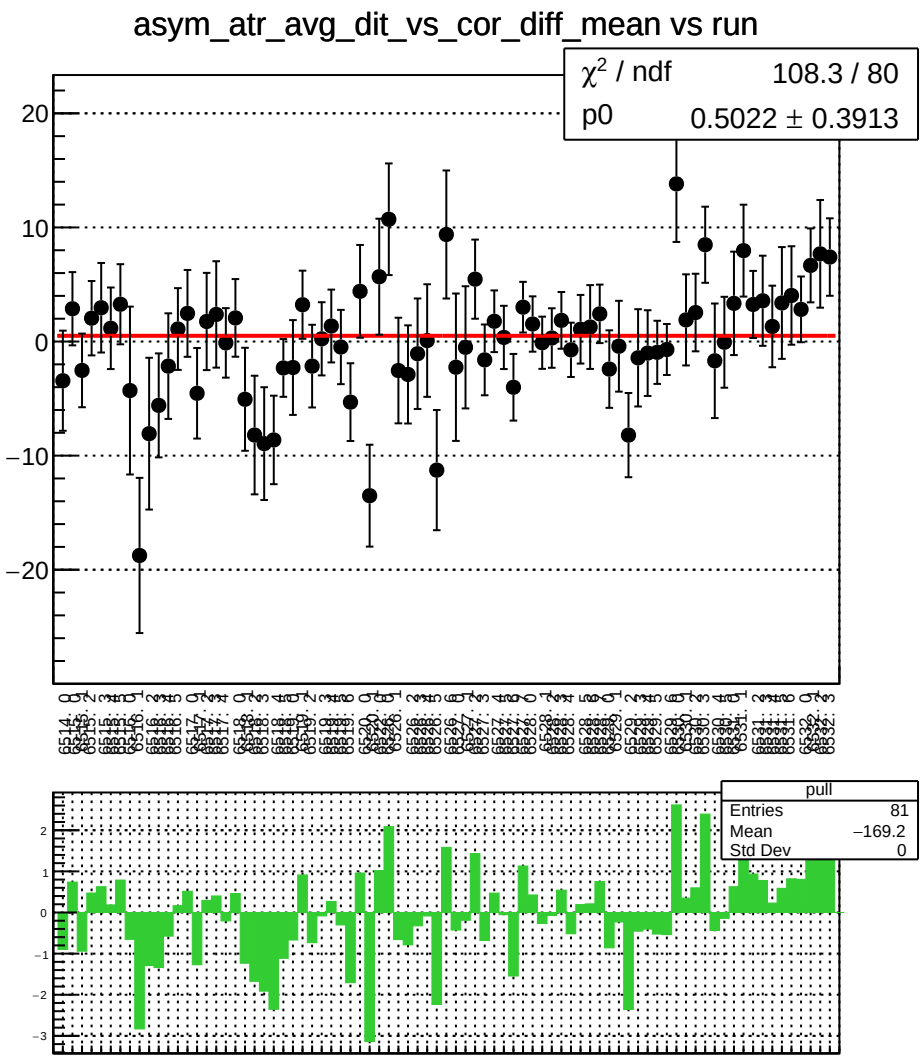

pull1D
Entries 81
Mean 0.01546
Std Dev 1.015

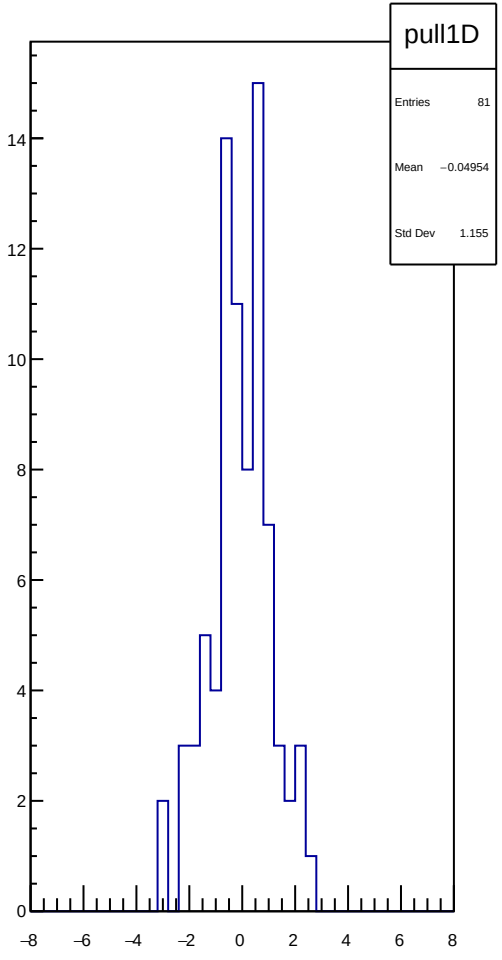

asym_atr_avg_rms vs run
χ² / ndf 2.198e+04 / 80
p0 5246 ± 4.228
7000
6500
6000
5500
5000
4500
4000

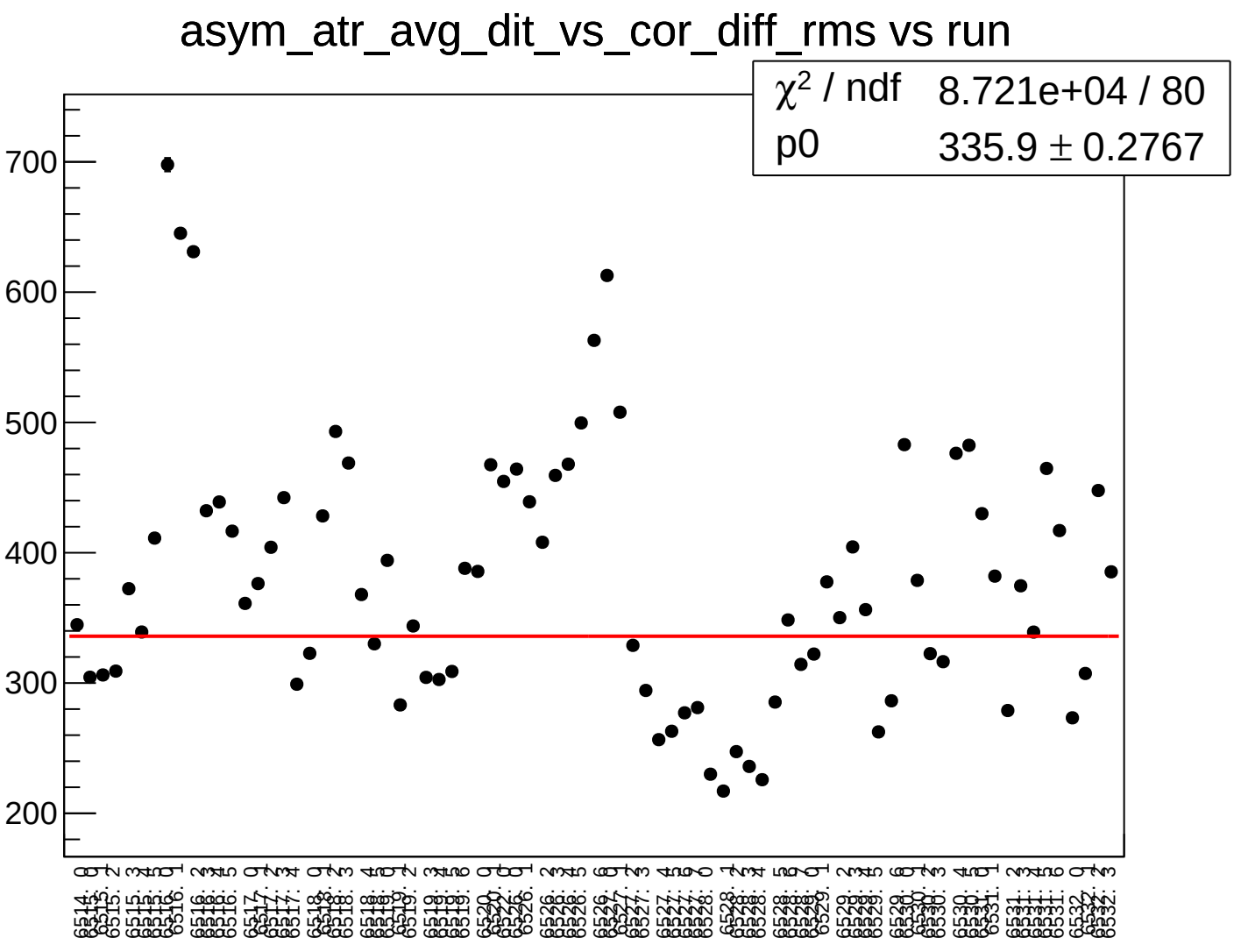

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 78.3 / 80
p0 −6.095e−14 ± 1.464e−13
pull
Entries 81
Mean 13.19
Std Dev 0

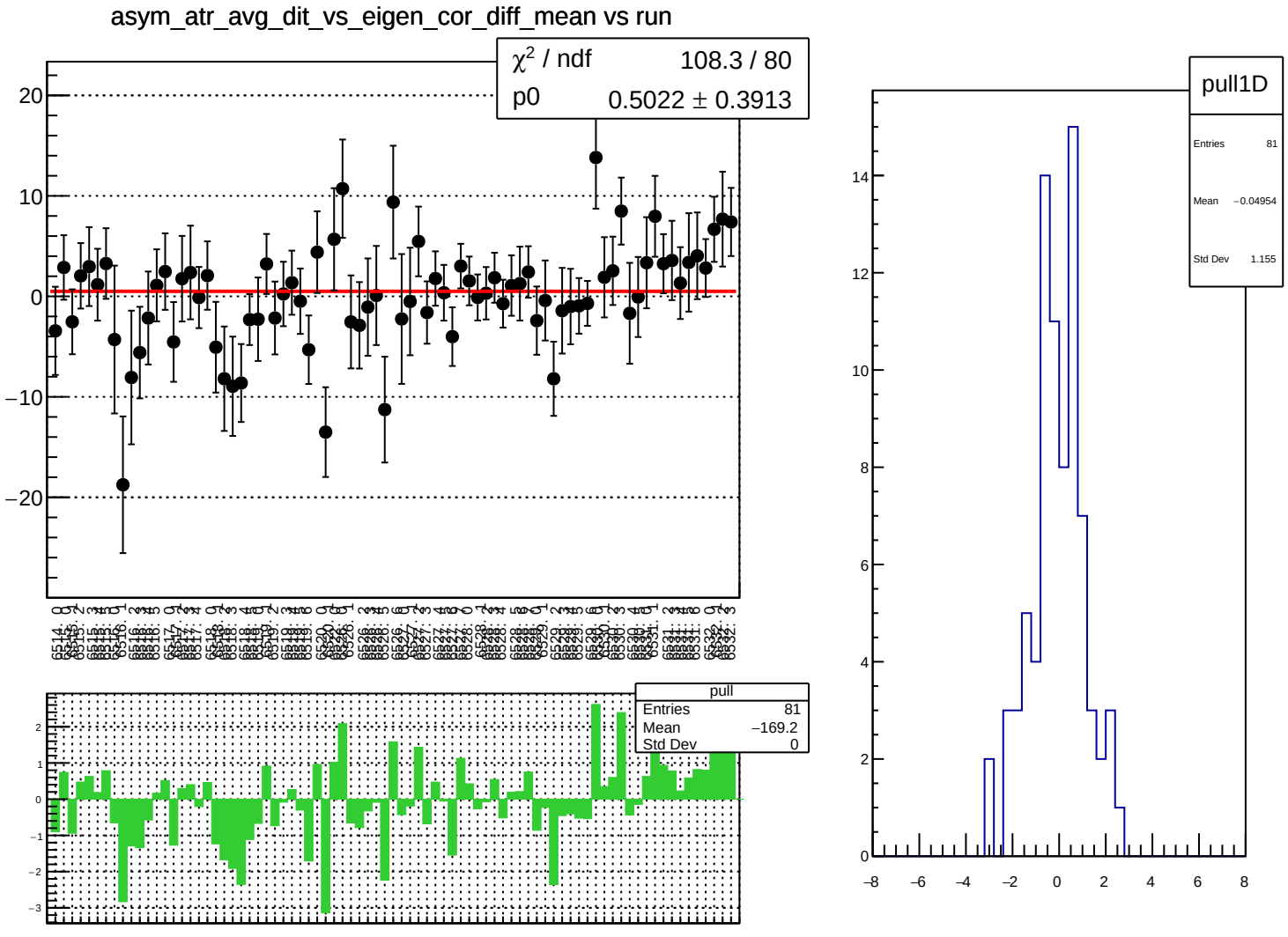

pull1D
Entries 81
Mean −0.04803
Std Dev 0.982

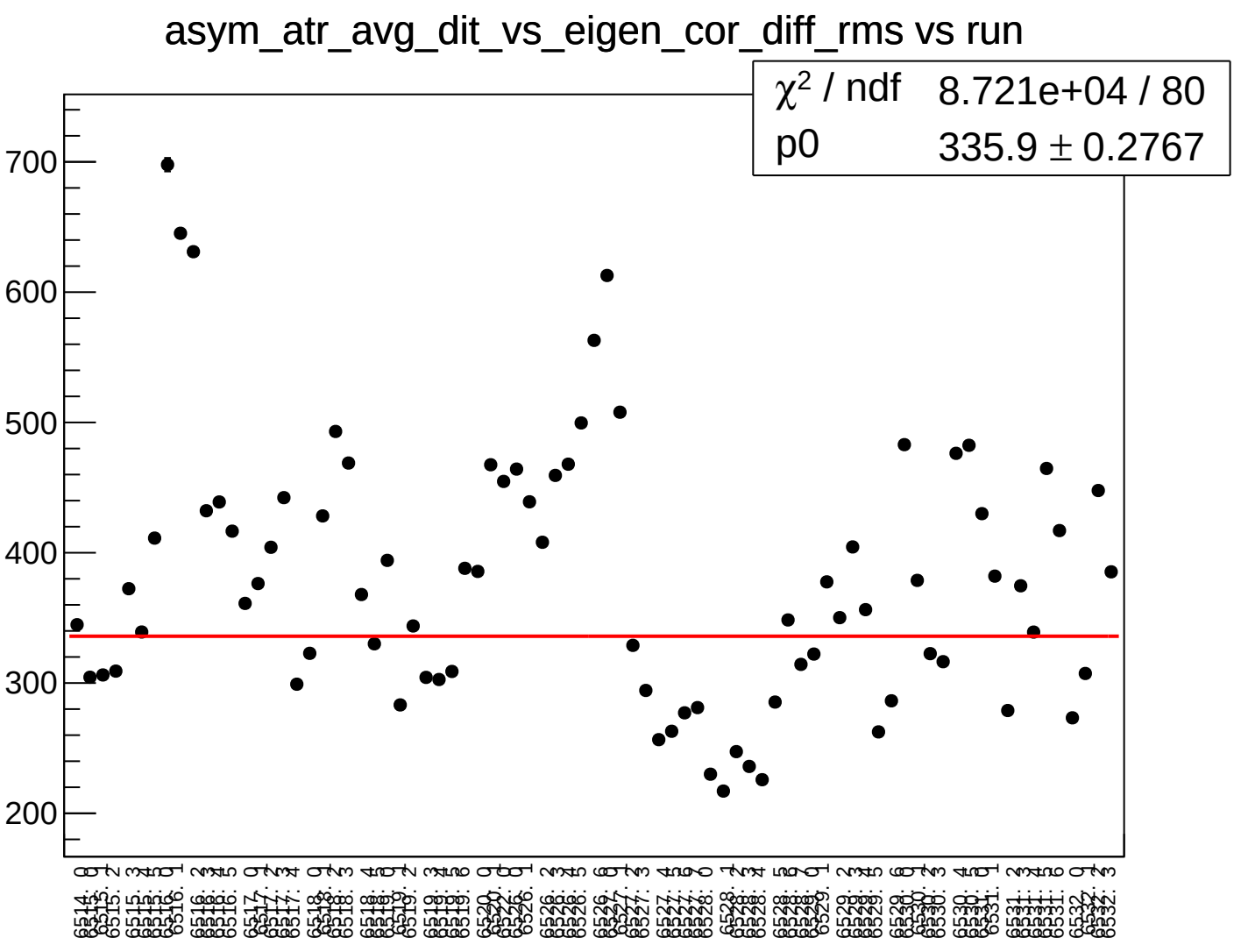

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 7.359e+05 / 80
p0 9.404e−11 ± 1.035e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

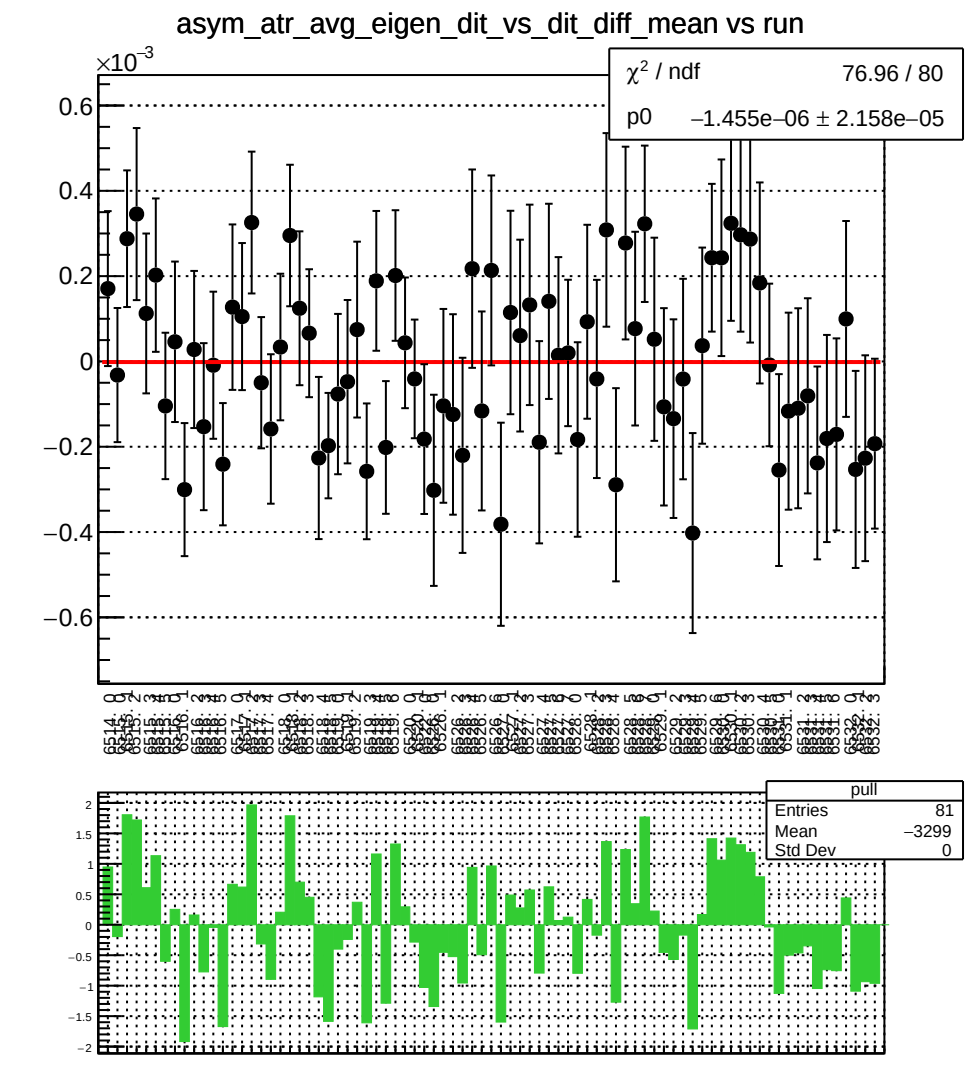

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 108.3 / 80
p0 0.5022 ± 0.3913
pull
Entries 81
Mean −169.2
Std Dev 0

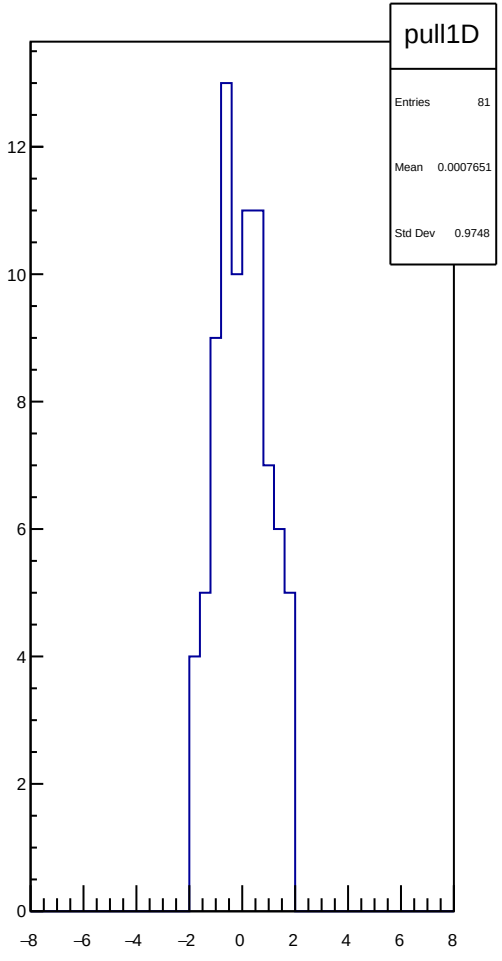

pull1D
Entries 81
Mean −0.04954
Std Dev 1.155

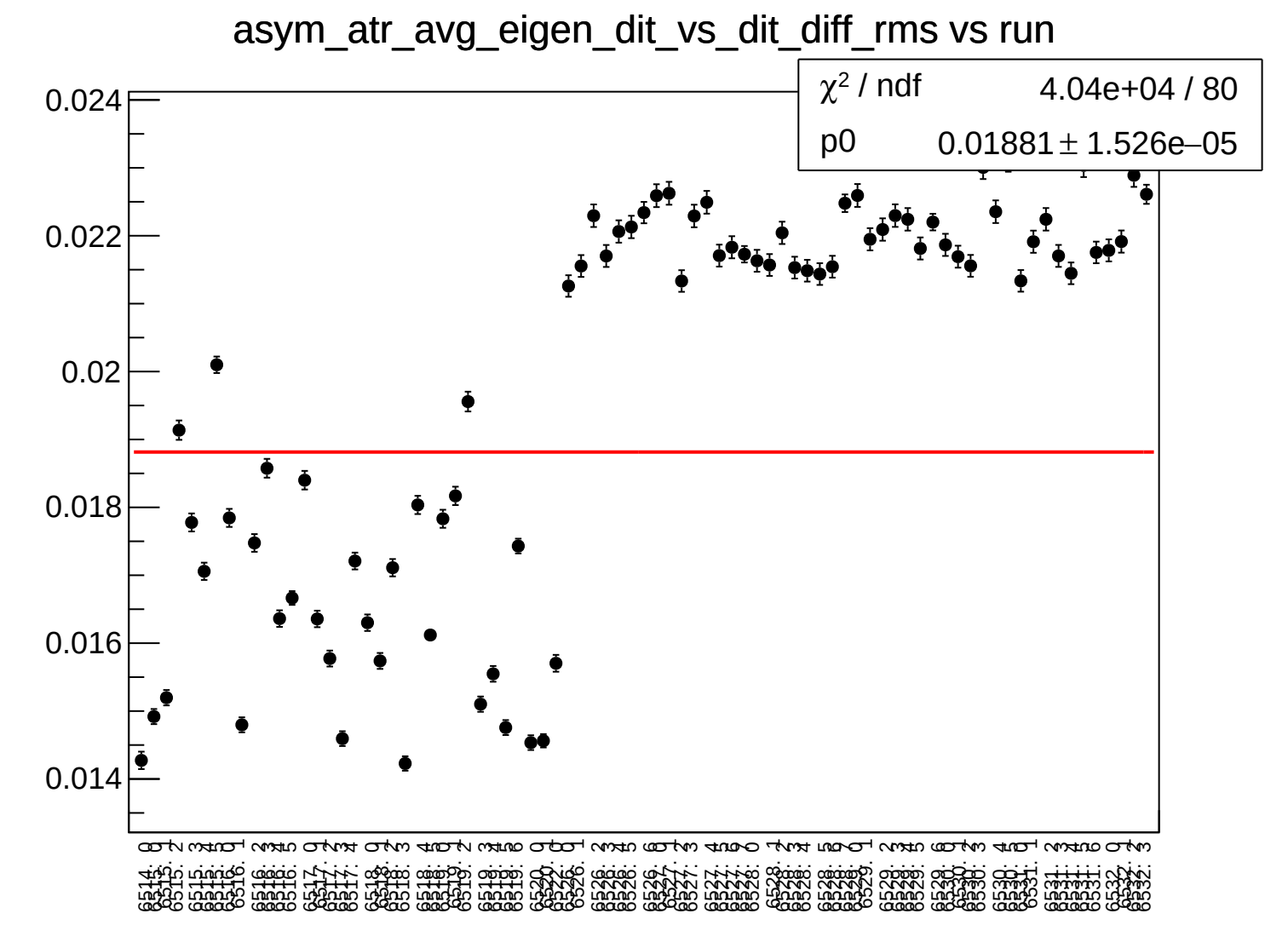

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.721e+04 / 80
p0 335.9 ± 0.2767
700
600
500
400
300
200

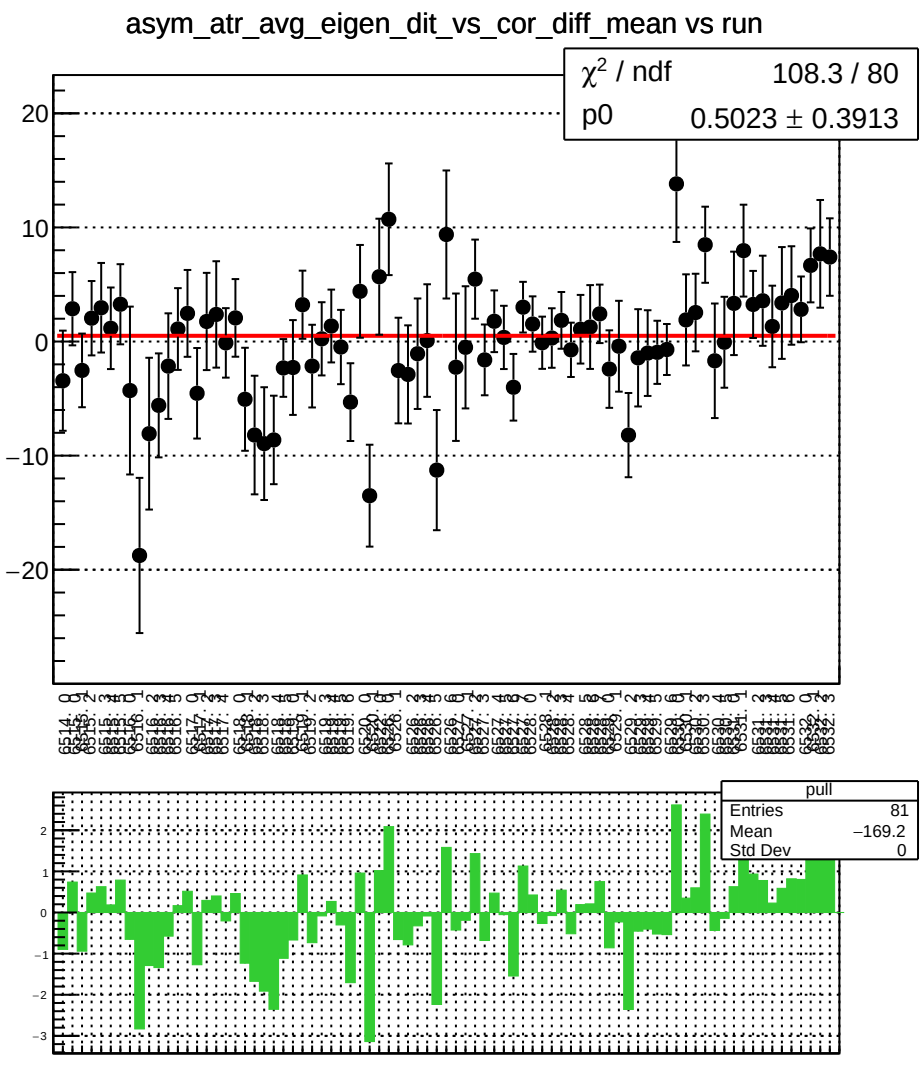

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.3 / 80
p0 0.5022 ± 0.3913
pull
Entries 81
Mean −169.2
Std Dev 0
pull1D
Entries 81
Mean −0.04954
Std Dev 1.155

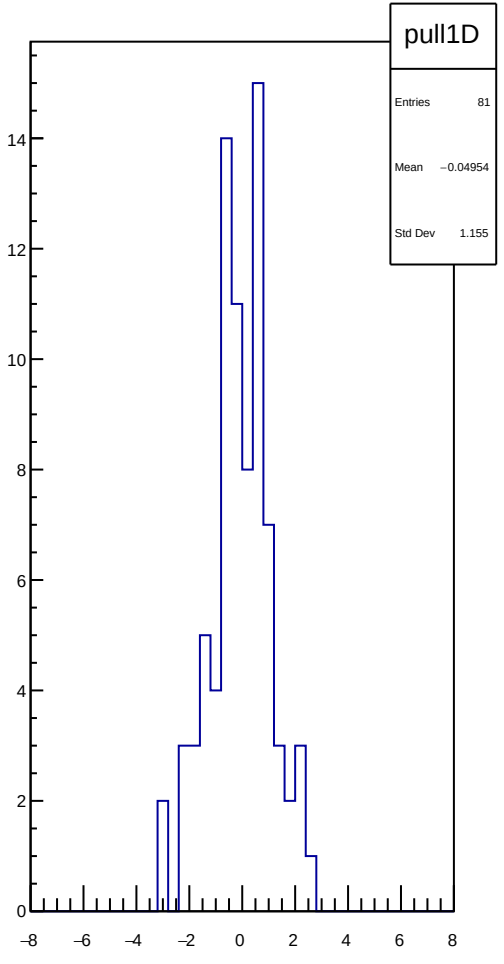

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.721e+04 / 80
p0 335.9 ± 0.2767
700
600
500
400
300
200

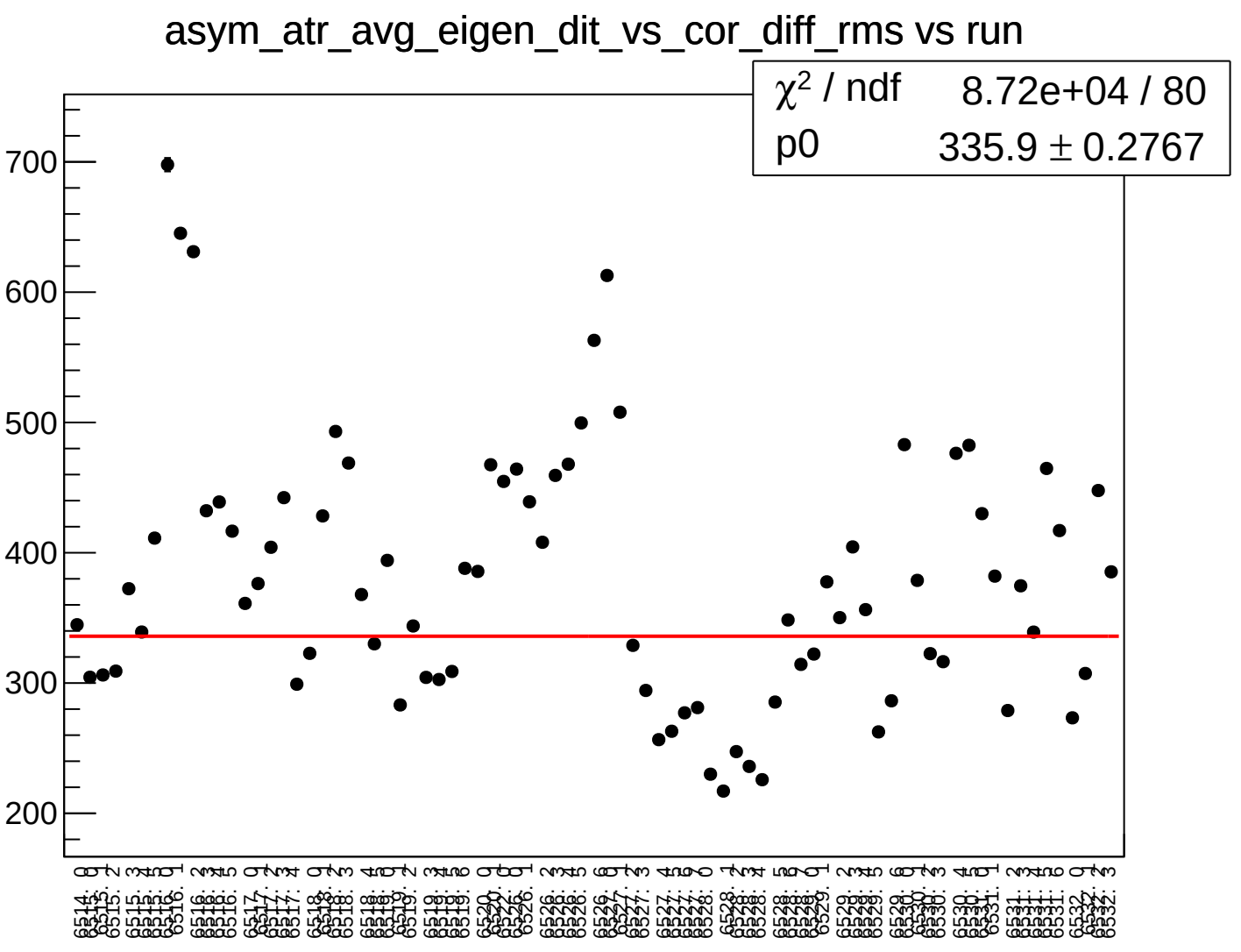

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.96 / 80
p0 −1.455e−06 ± 2.158e−05
pull
Entries 81
Mean −3299
Std Dev 0

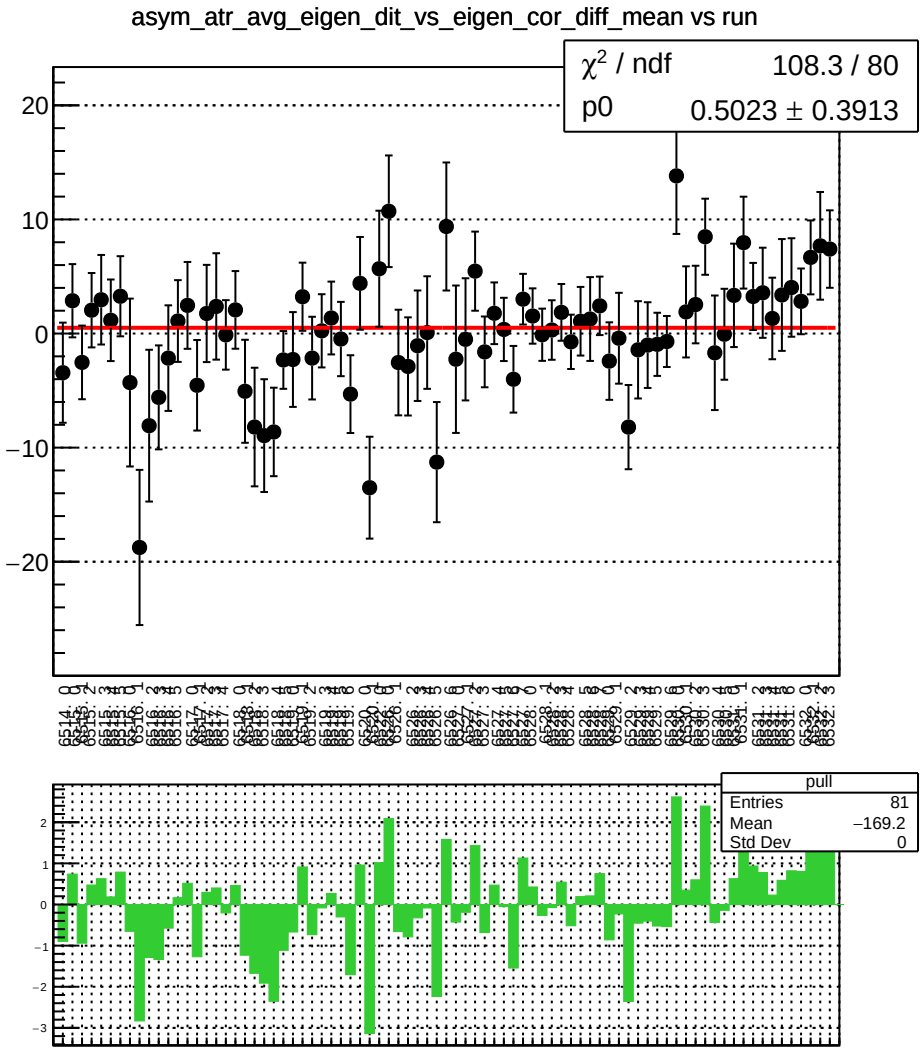

pull1D
Entries 81
Mean 0.0007651
Std Dev 0.9748

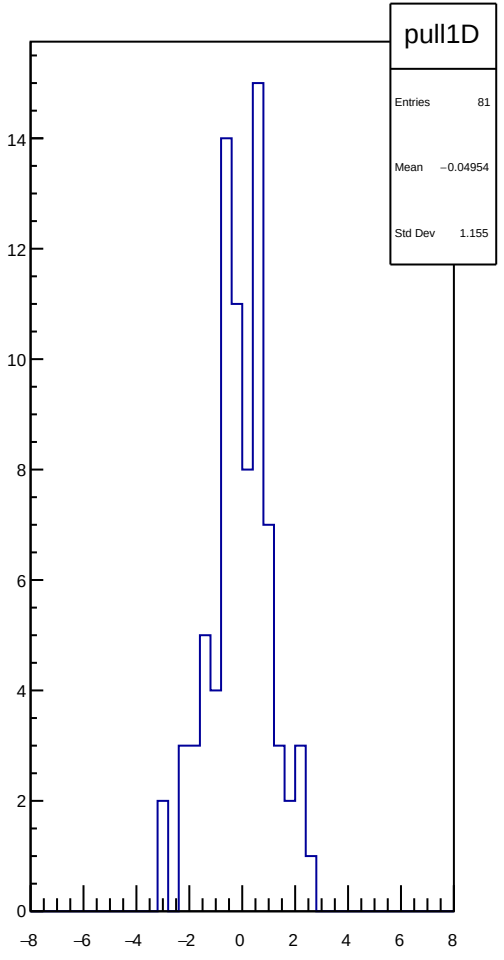

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.04e+04 / 80
p0 0.01881 ± 1.526e−05
0.024
0.022
0.02
0.018
0.016
0.014

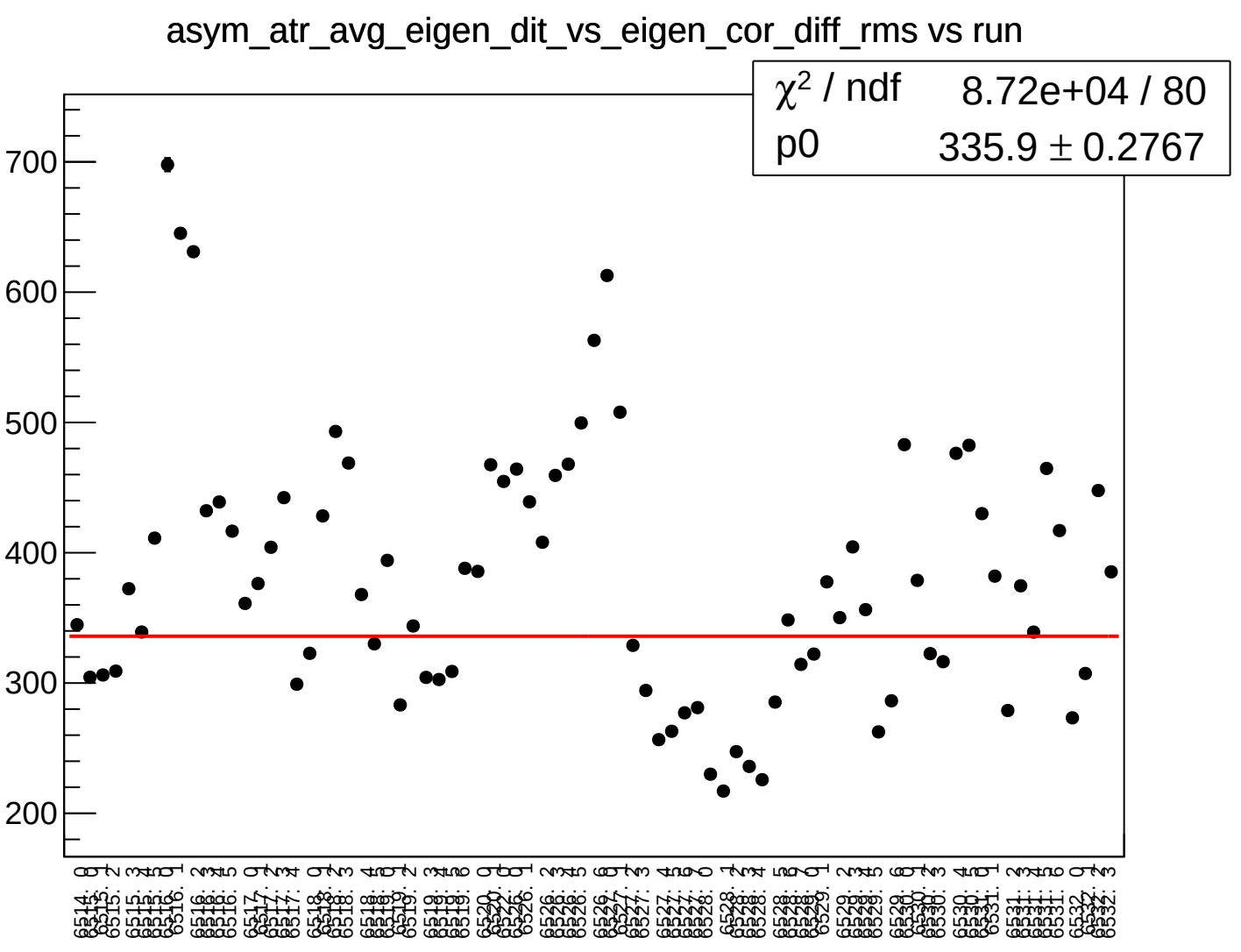

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 108.3 / 80
p0 0.5023 ± 0.3913
pull
Entries 81
Mean −169.2
Std Dev 0

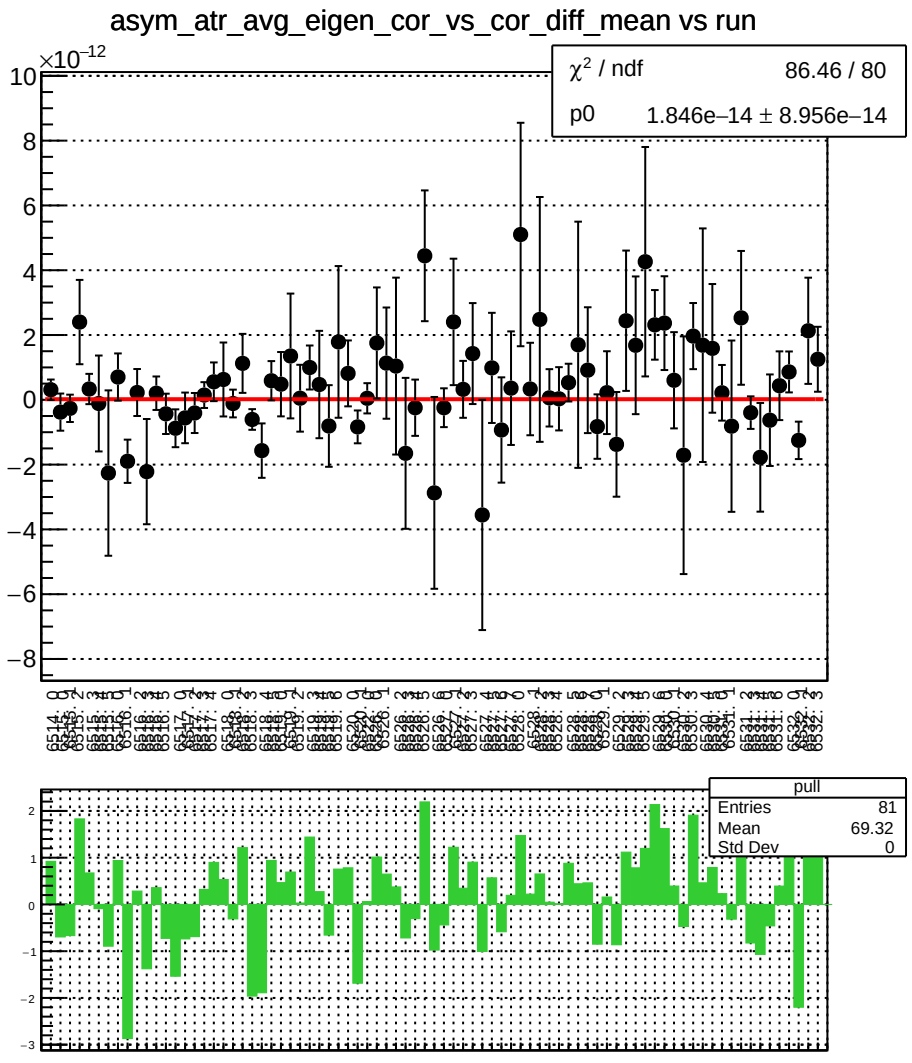

pull1D
Entries 81
Mean −0.04954
Std Dev 1.155

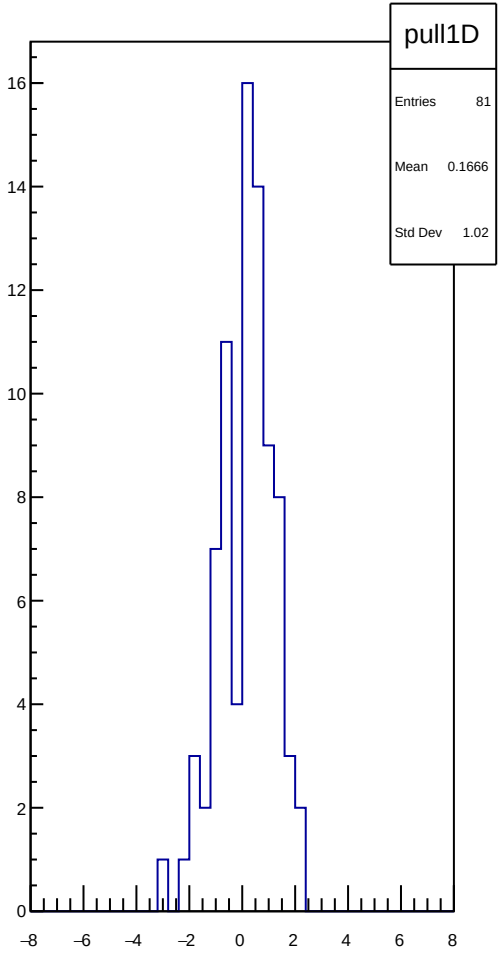

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.72e+04 / 80
p0 335.9 ± 0.2767
700
600
500
400
300
200

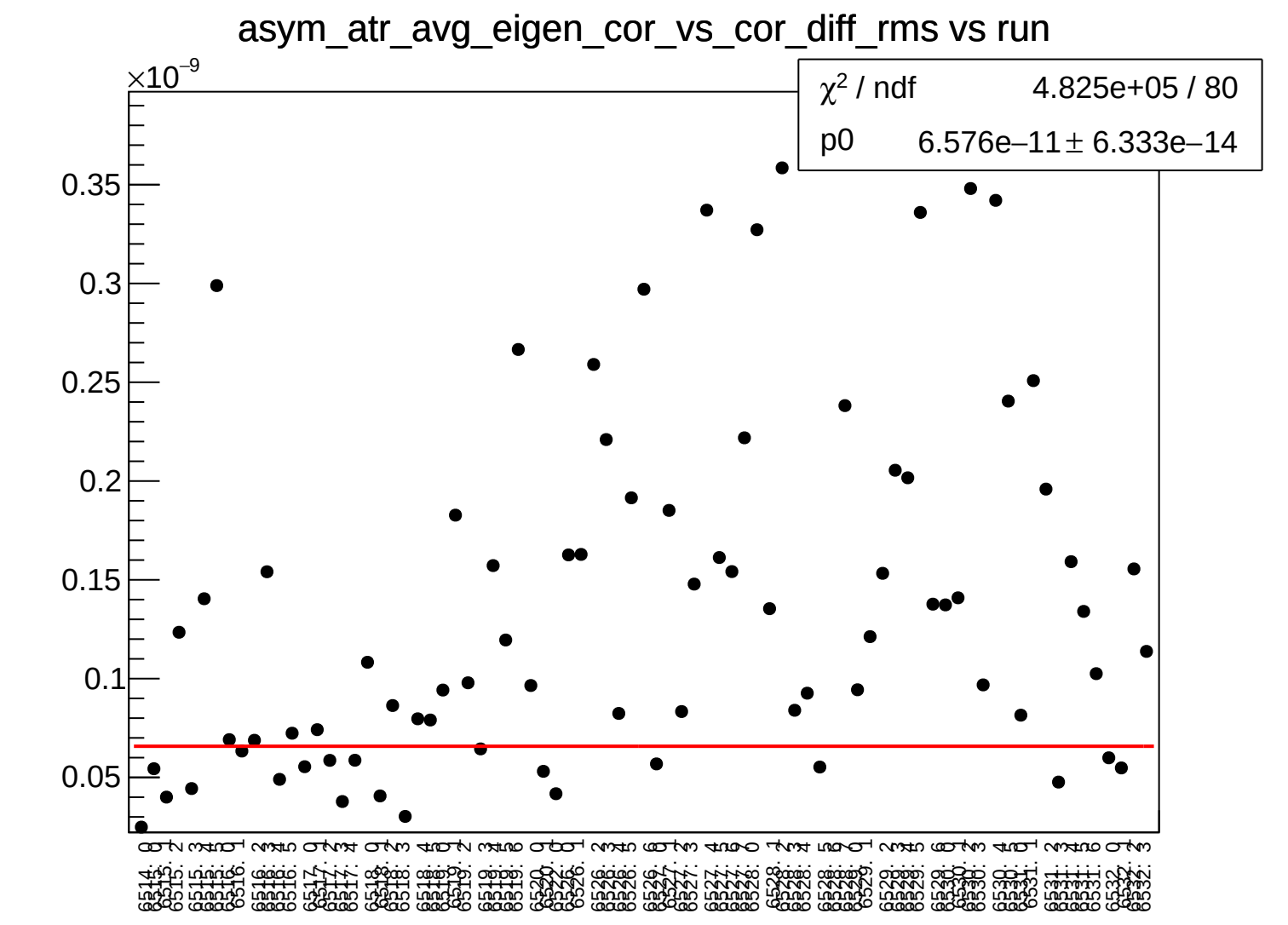

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.3 / 80
p0 0.5023 ± 0.3913
pull
Entries 81
Mean −169.2
Std Dev 0

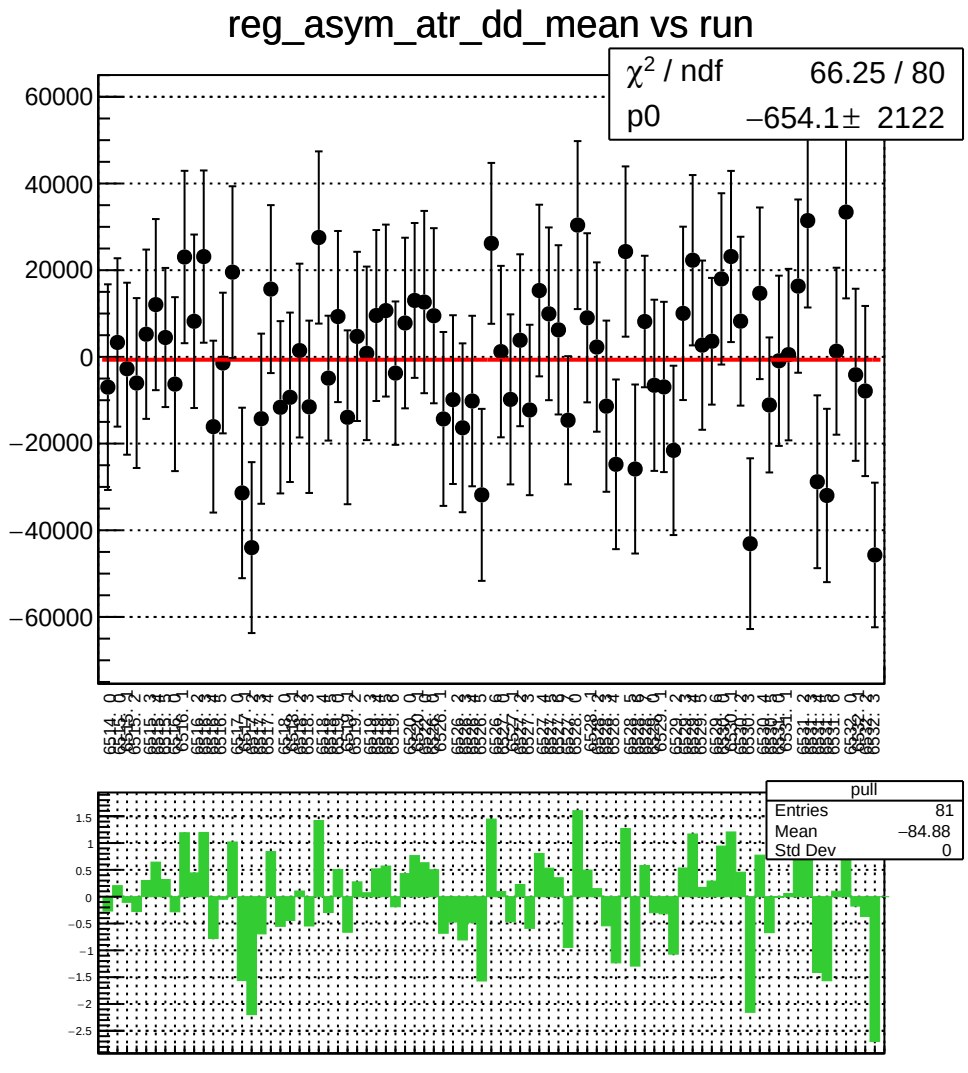

pull1D
Entries 81
Mean −0.04954
Std Dev 1.155

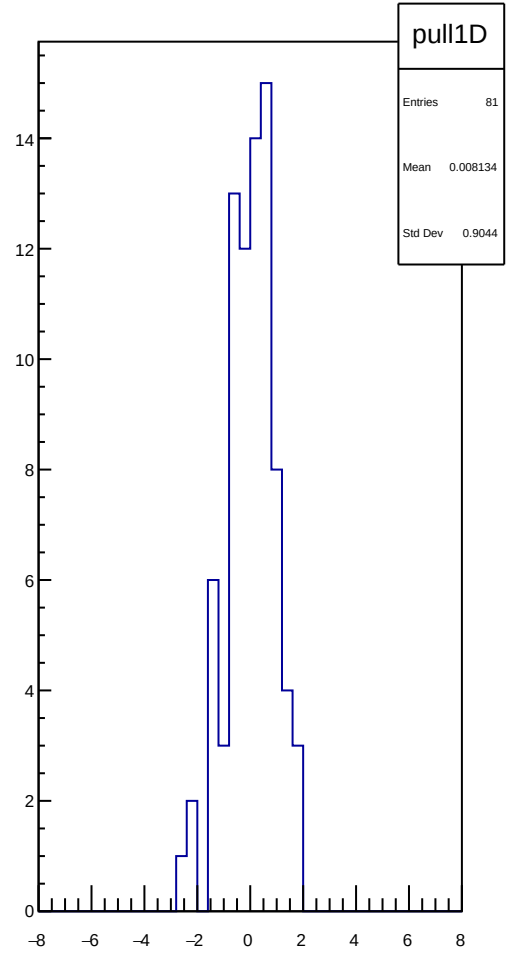

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.72e+04 / 80
p0 335.9 ± 0.2767
700
600
500
400
300
200

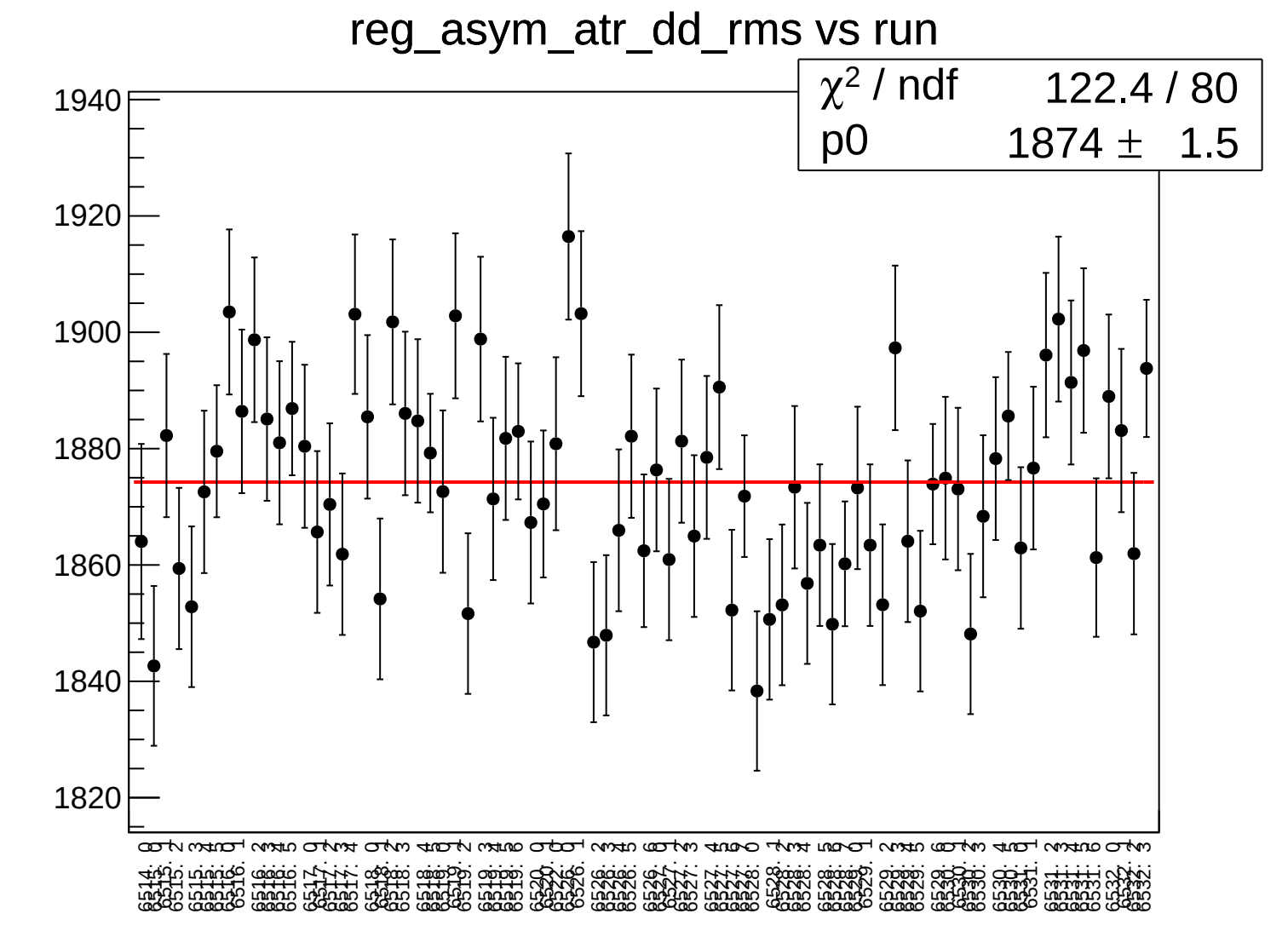

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 86.46 / 80
p0 1.846e−14 ± 8.956e−14
pull
Entries 81
Mean 69.32
Std Dev 0

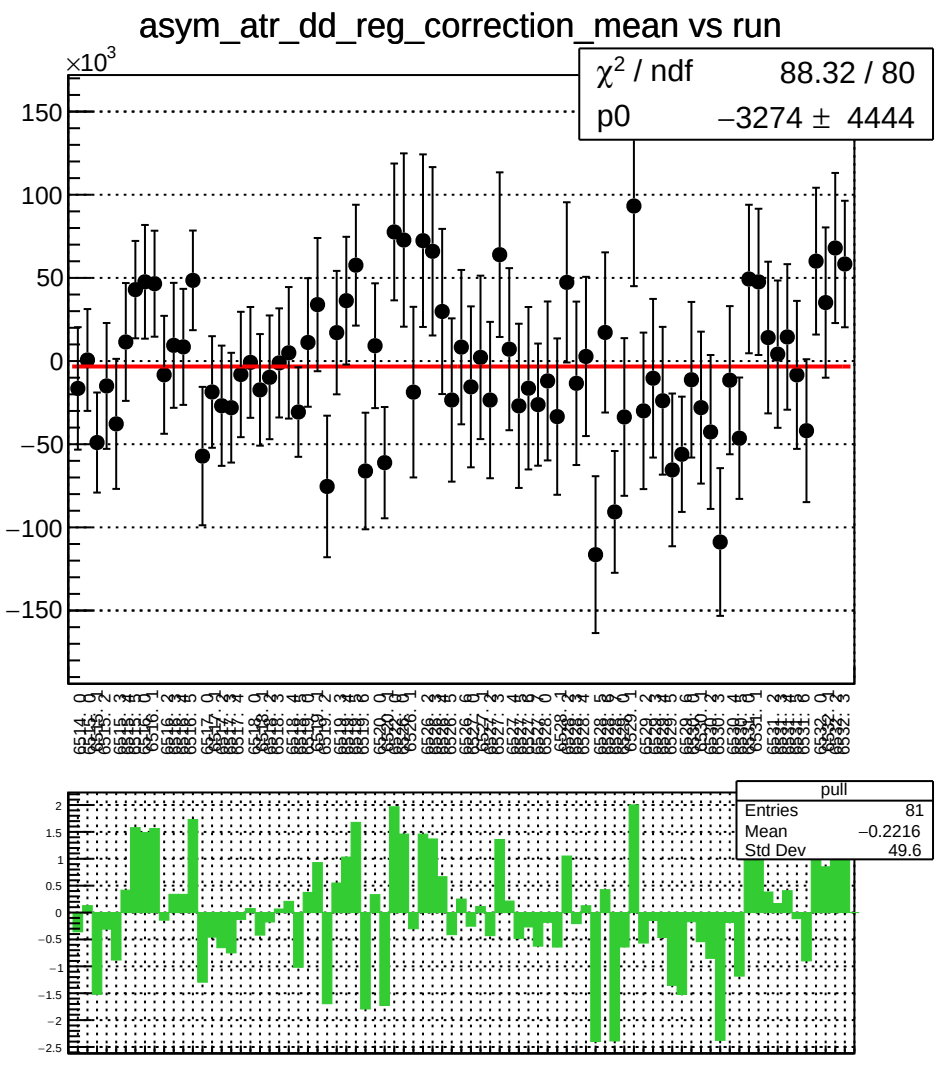

pull1D
Entries 81
Mean 0.1666
Std Dev 1.02

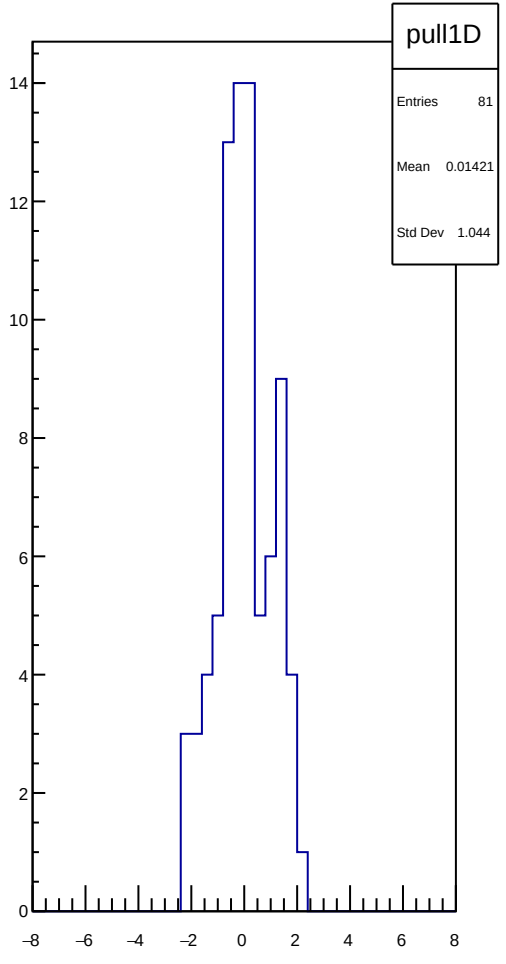

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.825e+05 / 80
p0 6.576e−11 ± 6.333e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

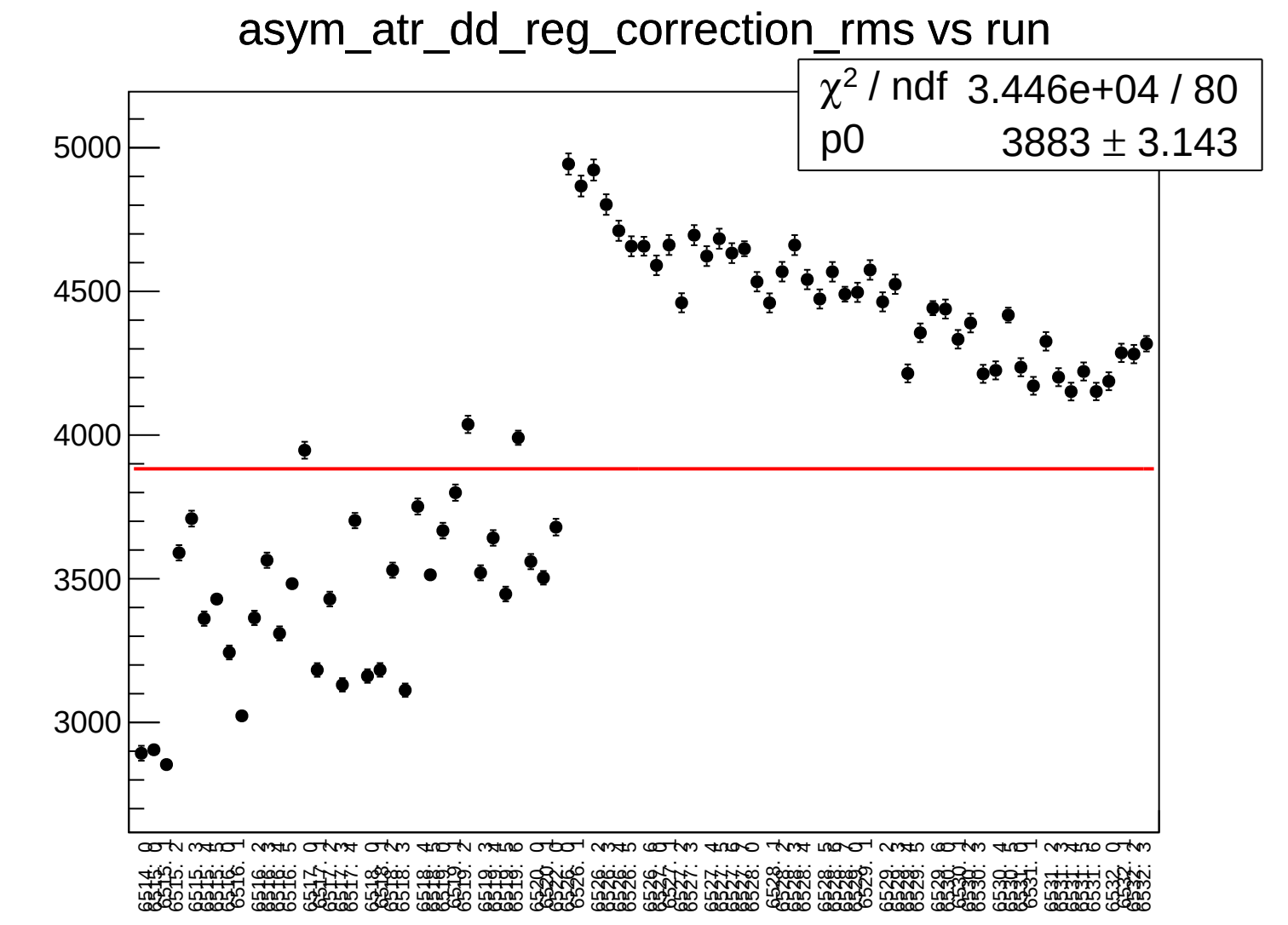

reg_asym_atr_dd_mean vs run
χ² / ndf 66.25 / 80
p0 −654.1± 2122
pull
Entries 81
Mean −84.88
Std Dev 0

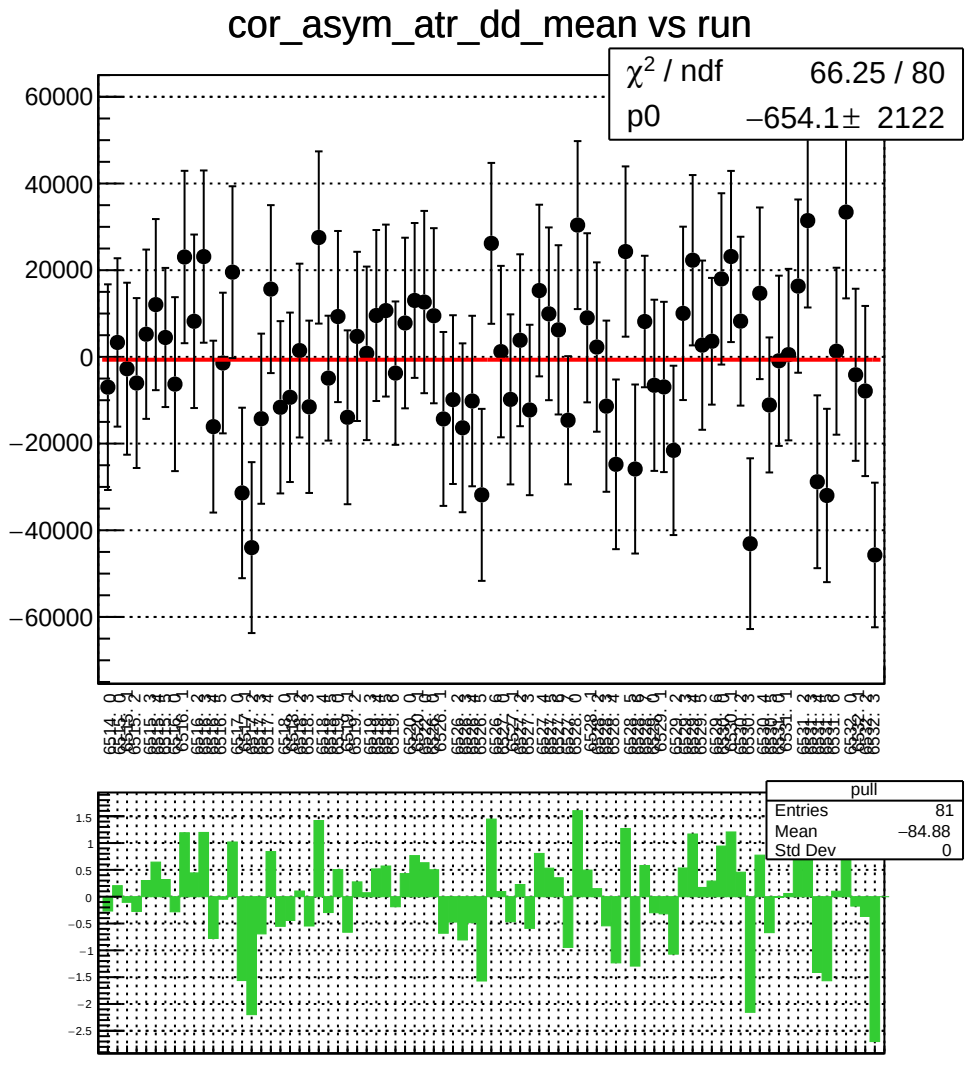

pull1D
Entries 81
Mean 0.008134
Std Dev 0.9044

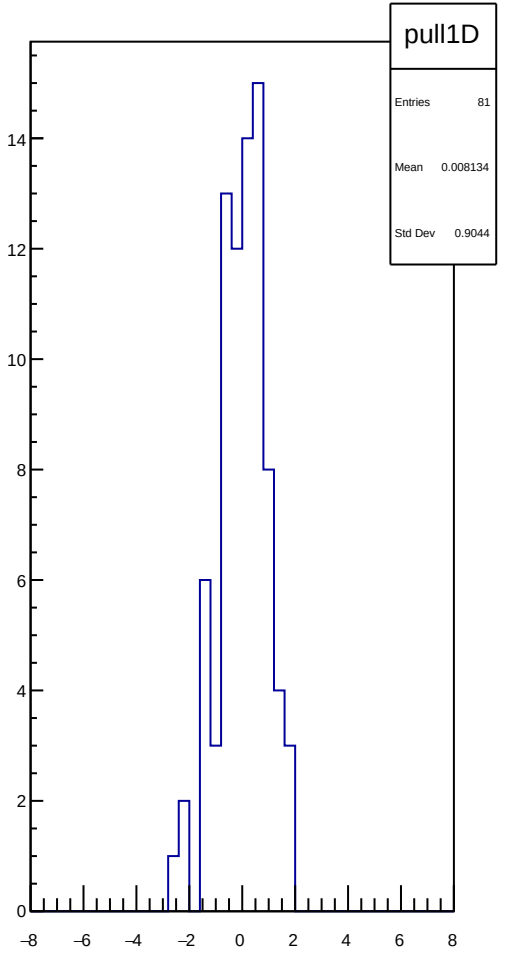

reg_asym_atr_dd_rms vs run
χ² / ndf 122.4 / 80
p0 1874 ± 1.5
1940
1920
1900
1880
1860
1840
1820

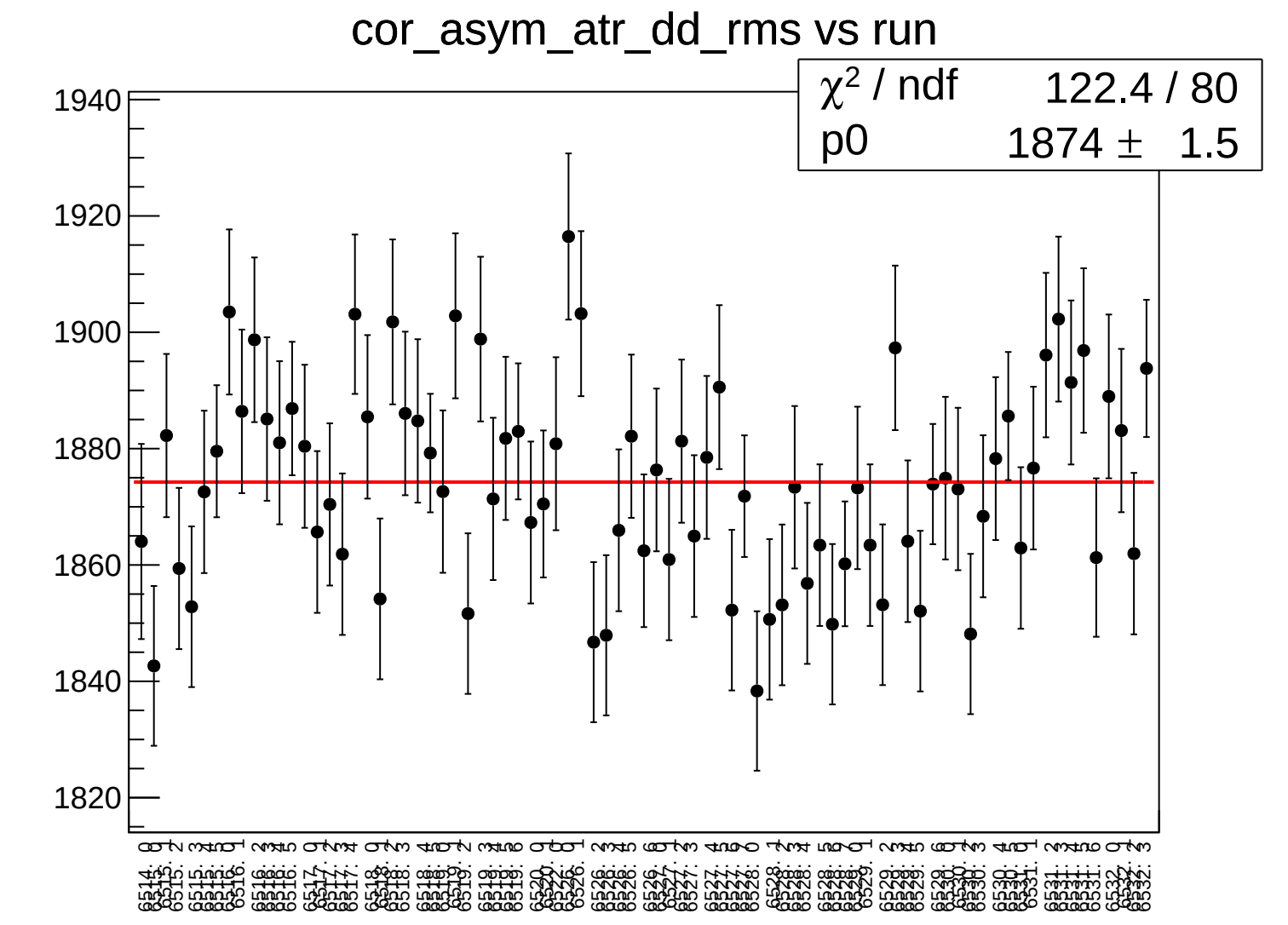

asym_atr_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 88.32 / 80
p0 −3274 ± 4444
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean −0.2216
Std Dev 49.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

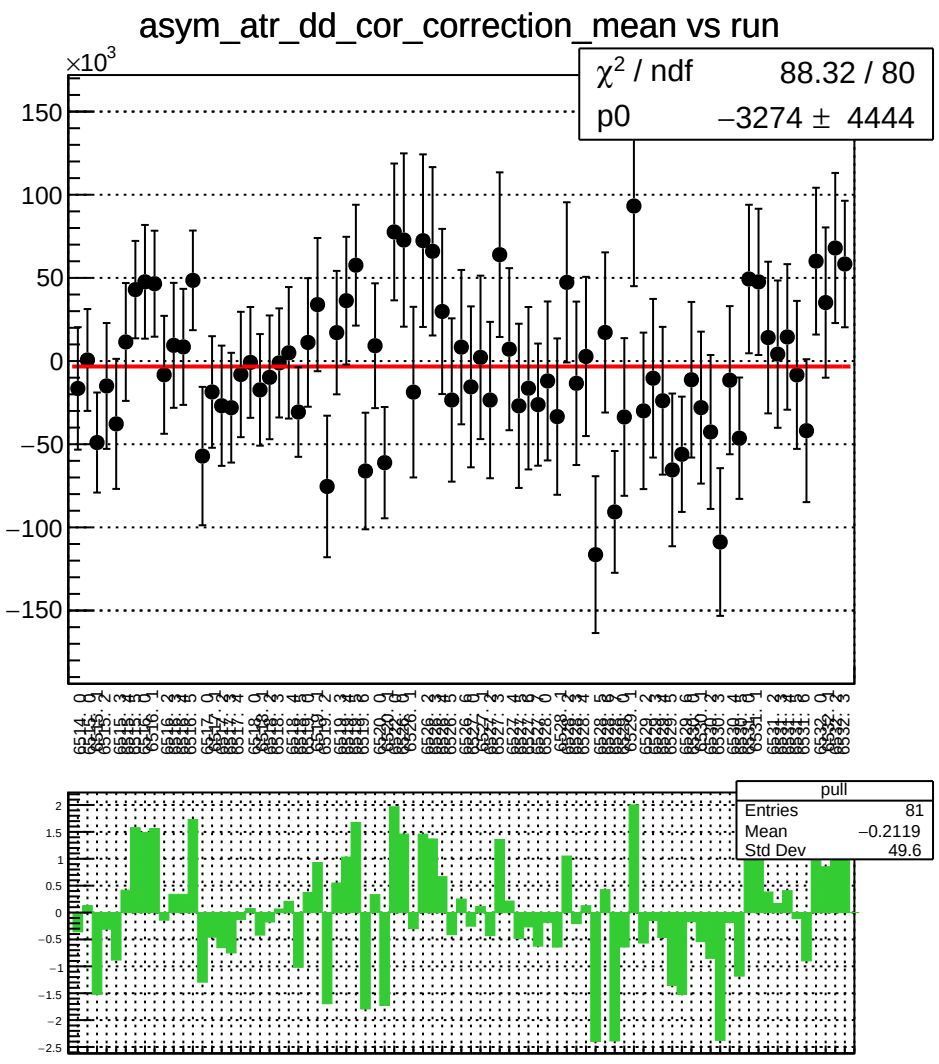

pull1D
Entries 81
Mean 0.01421
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

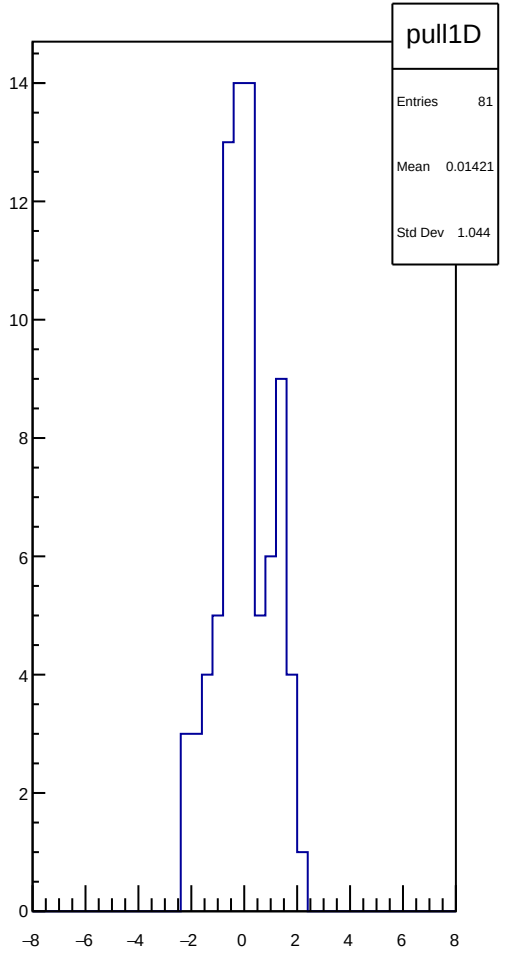

asym_atr_dd_reg_correction_rms vs run
χ² / ndf 3.446e+04 / 80
p0 3883 ± 3.143
5000
4500
4000
3500
3000

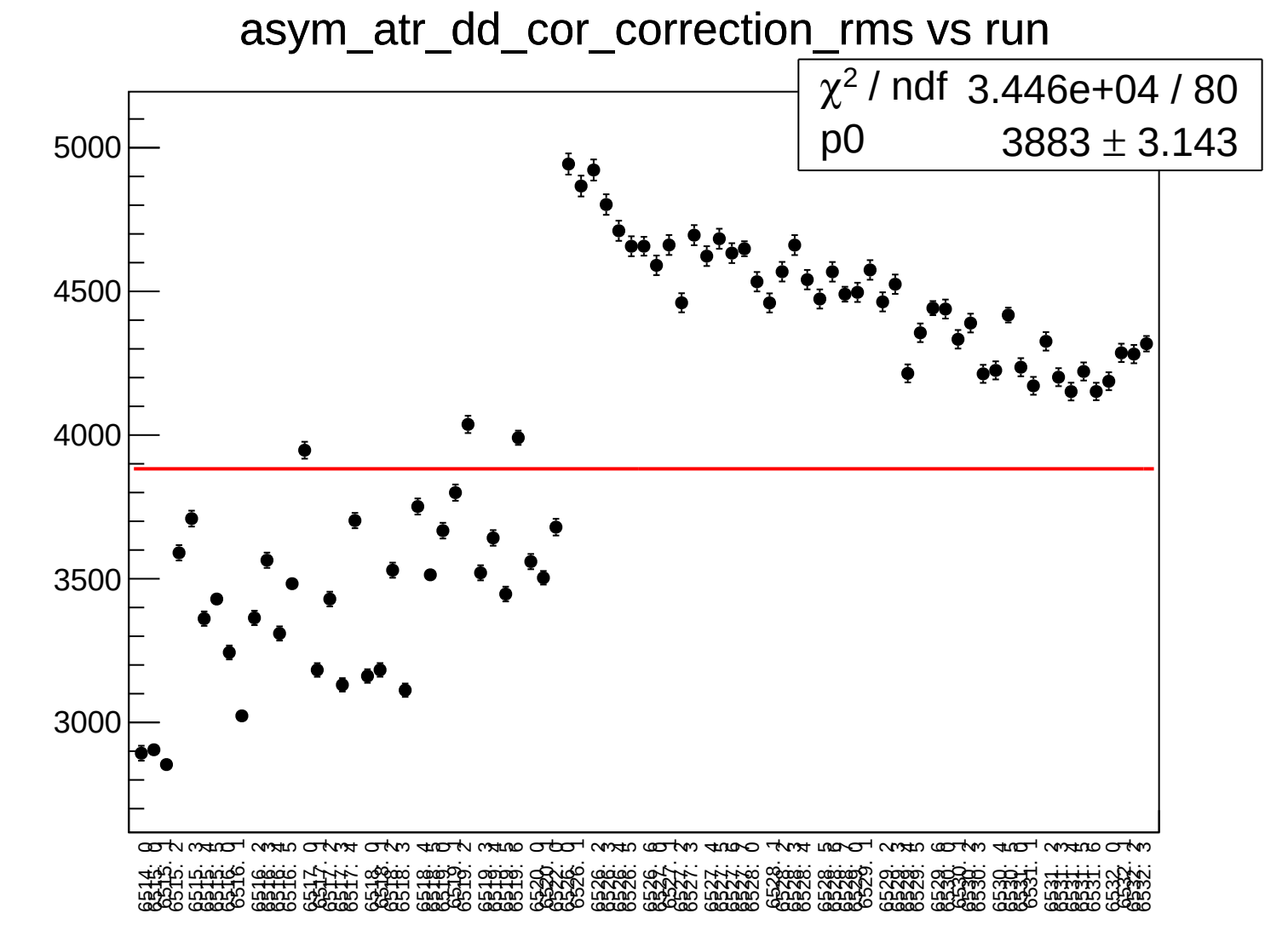

cor_asym_atr_dd_mean vs run
χ² / ndf 66.25 / 80
p0 −654.1± 2122
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −84.88
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

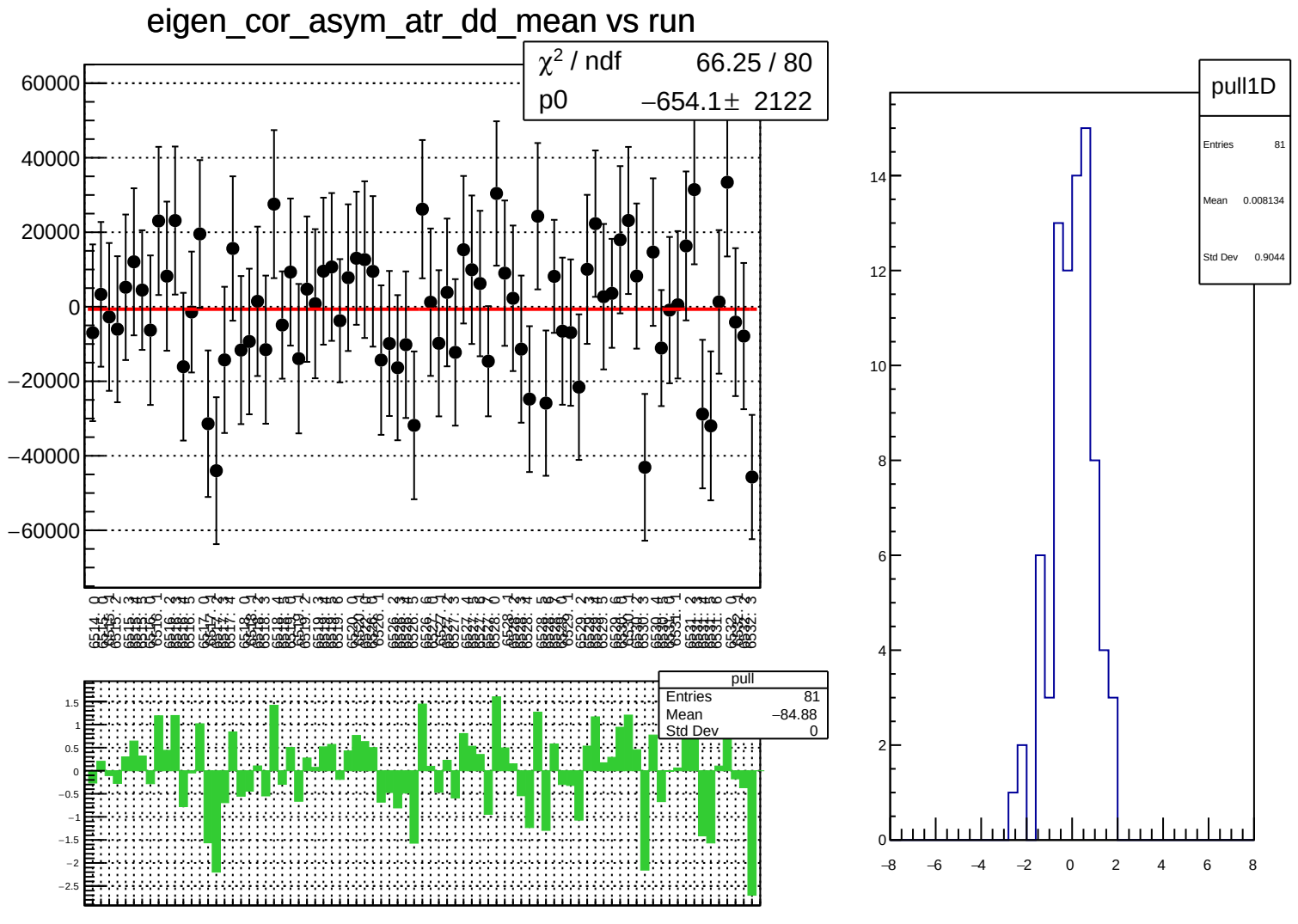

pull1D
Entries 81
Mean 0.008134
Std Dev 0.9044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

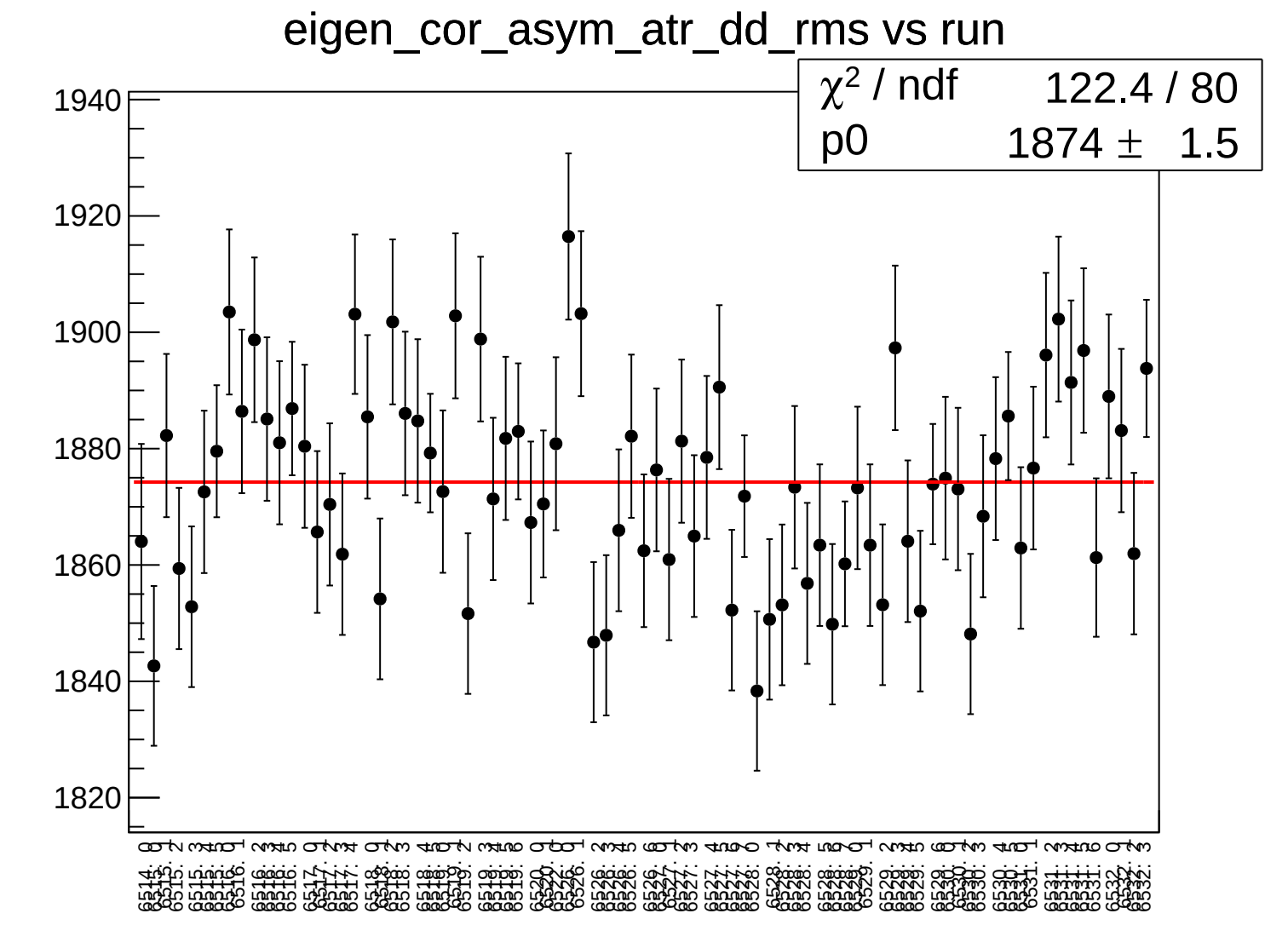

cor_asym_atr_dd_rms vs run
χ² / ndf 122.4 / 80
p0 1874 ± 1.5
1940
1920
1900
1880
1860
1840
1820

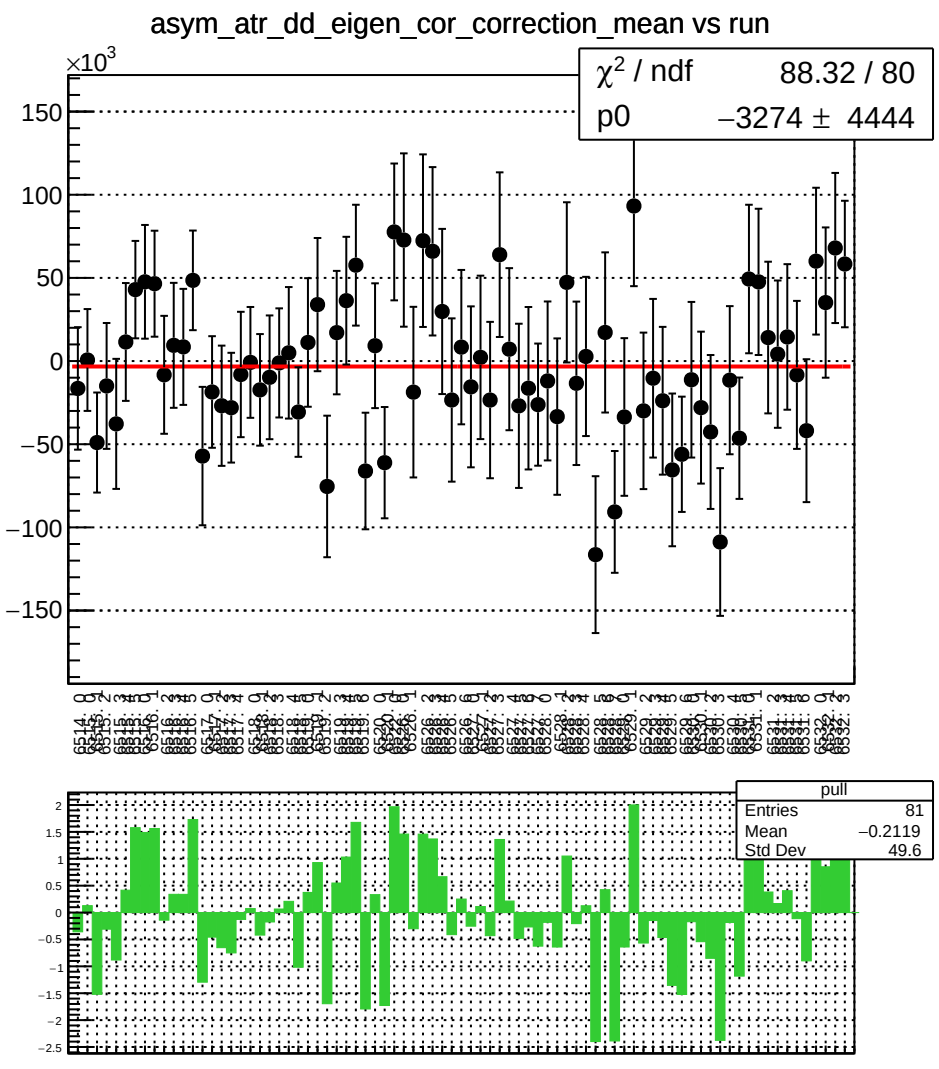

asym_atr_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 88.32 / 80
p0 −3274 ± 4444
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean −0.2119
Std Dev 49.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

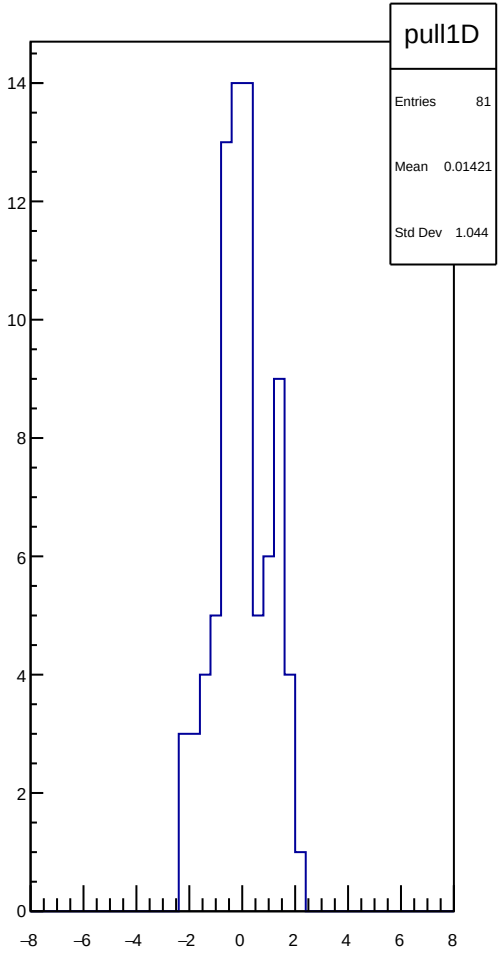

pull1D
Entries 81
Mean 0.01421
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

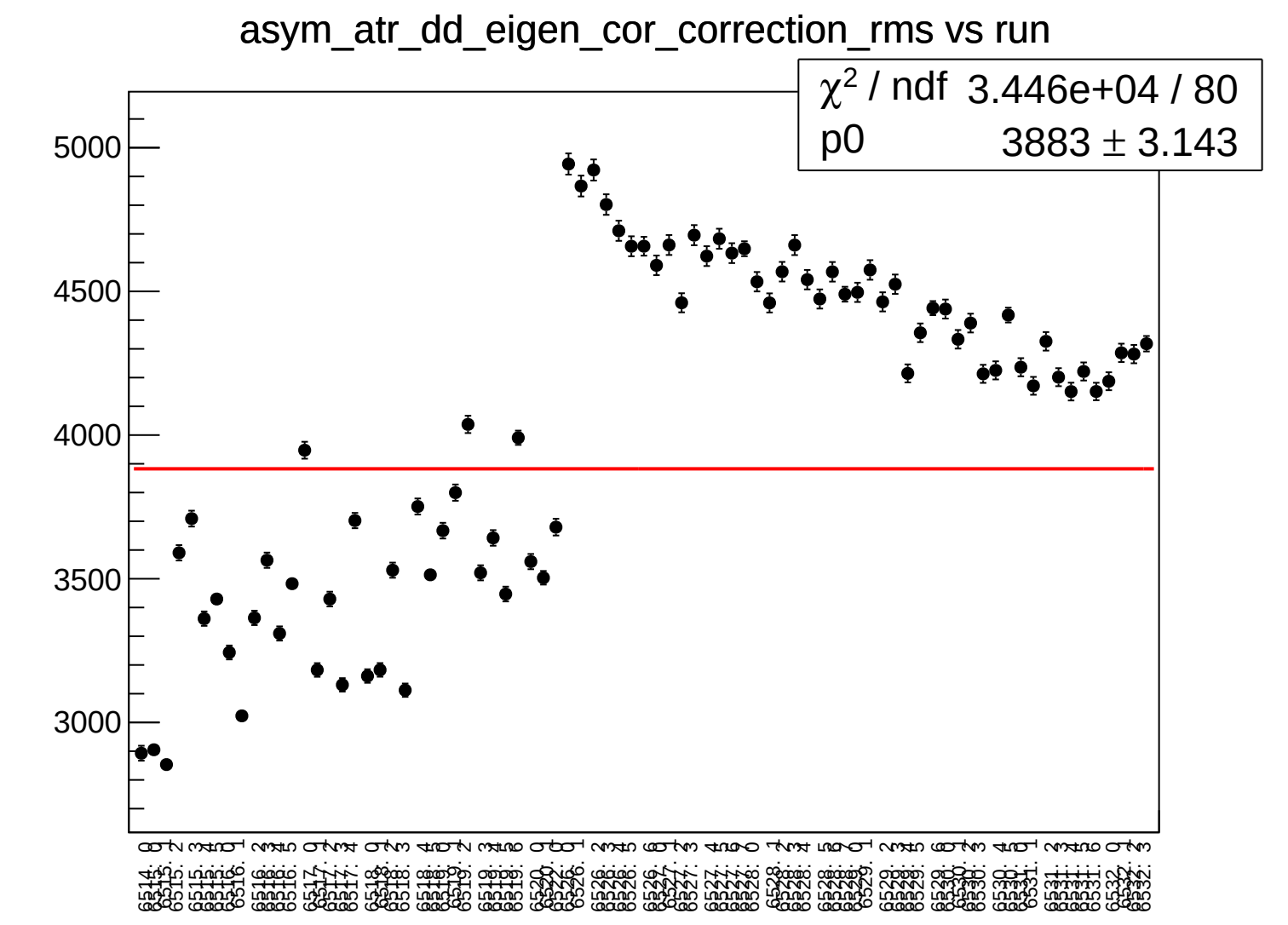

asym_atr_dd_cor_correction_rms vs run
χ² / ndf 3.446e+04 / 80
p0 3883 ± 3.143
5000
4500
4000
3500
3000

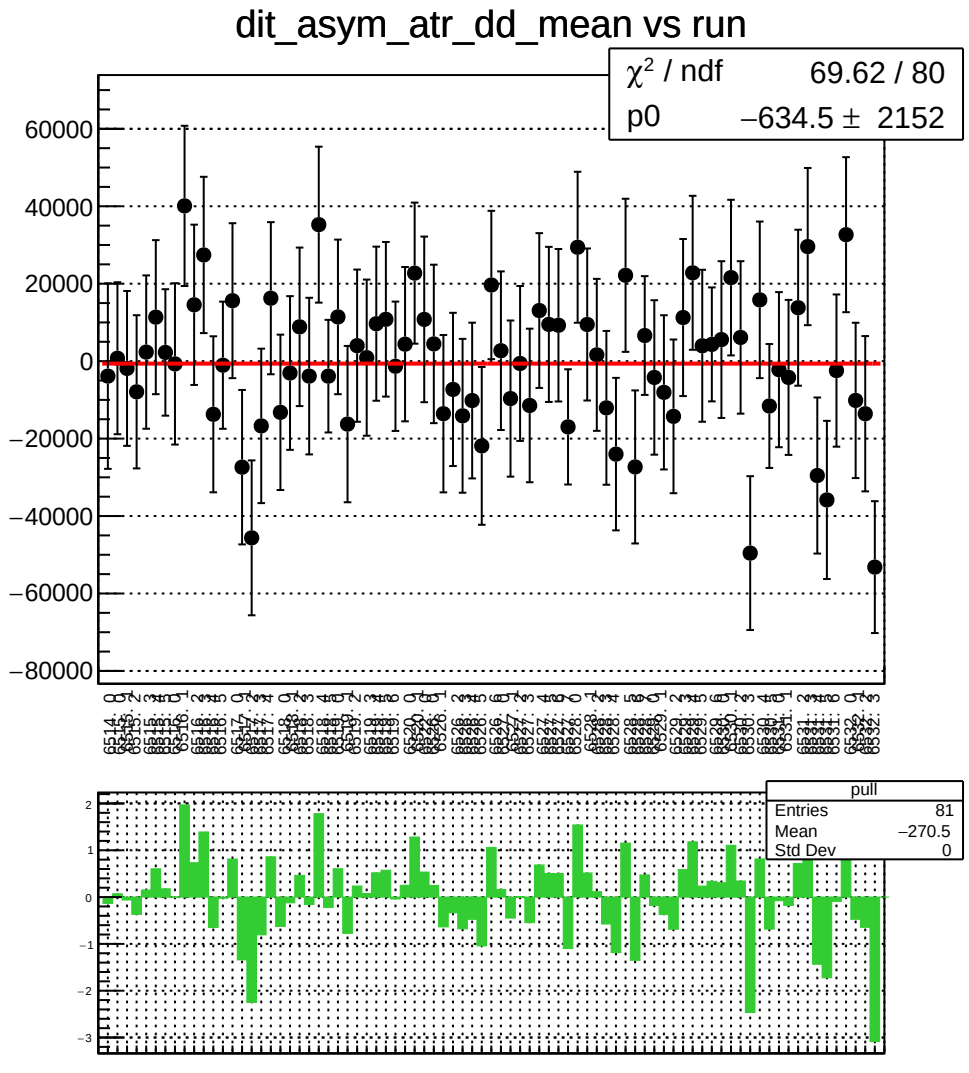

eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 66.25 / 80
p0 −654.1± 2122
pull
Entries 81
Mean −84.88
Std Dev 0
pull1D
Entries 81
Mean 0.008134
Std Dev 0.9044

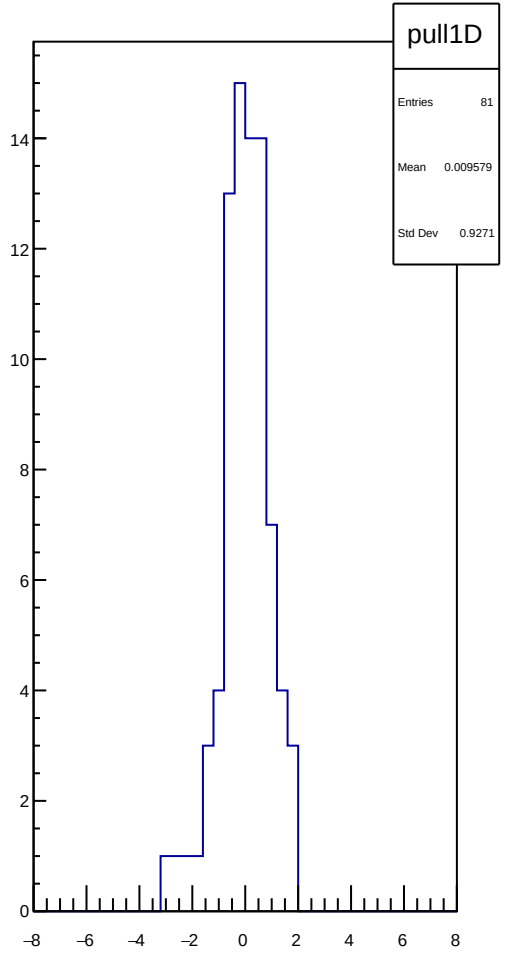

eigen_cor_asym_atr_dd_rms vs run
χ² / ndf 122.4 / 80
p0 1874 ± 1.5
1940
1920
1900
1880
1860
1840
1820

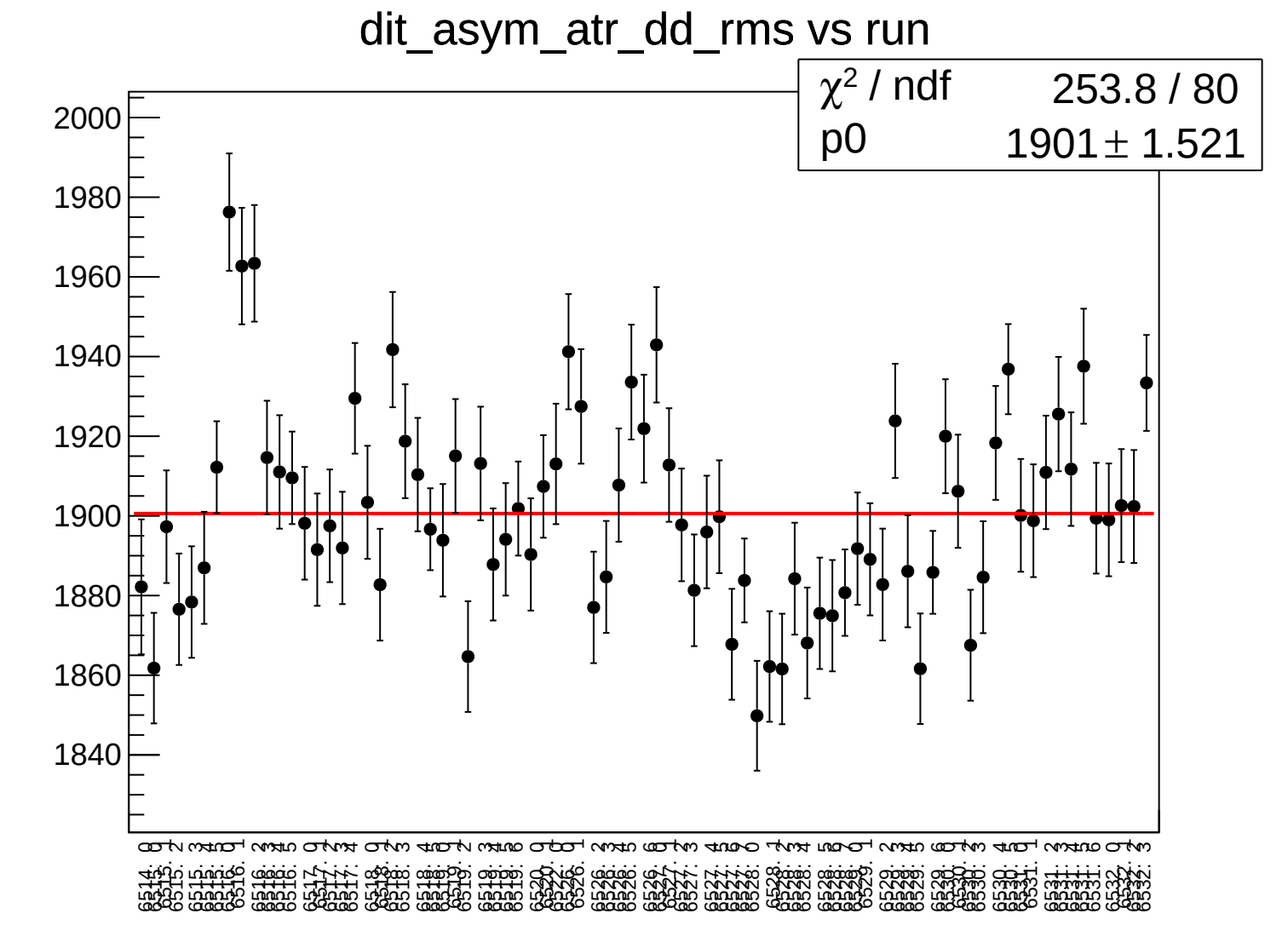

asym_atr_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 88.32 / 80
p0 −3274 ± 4444
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean −0.2119
Std Dev 49.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

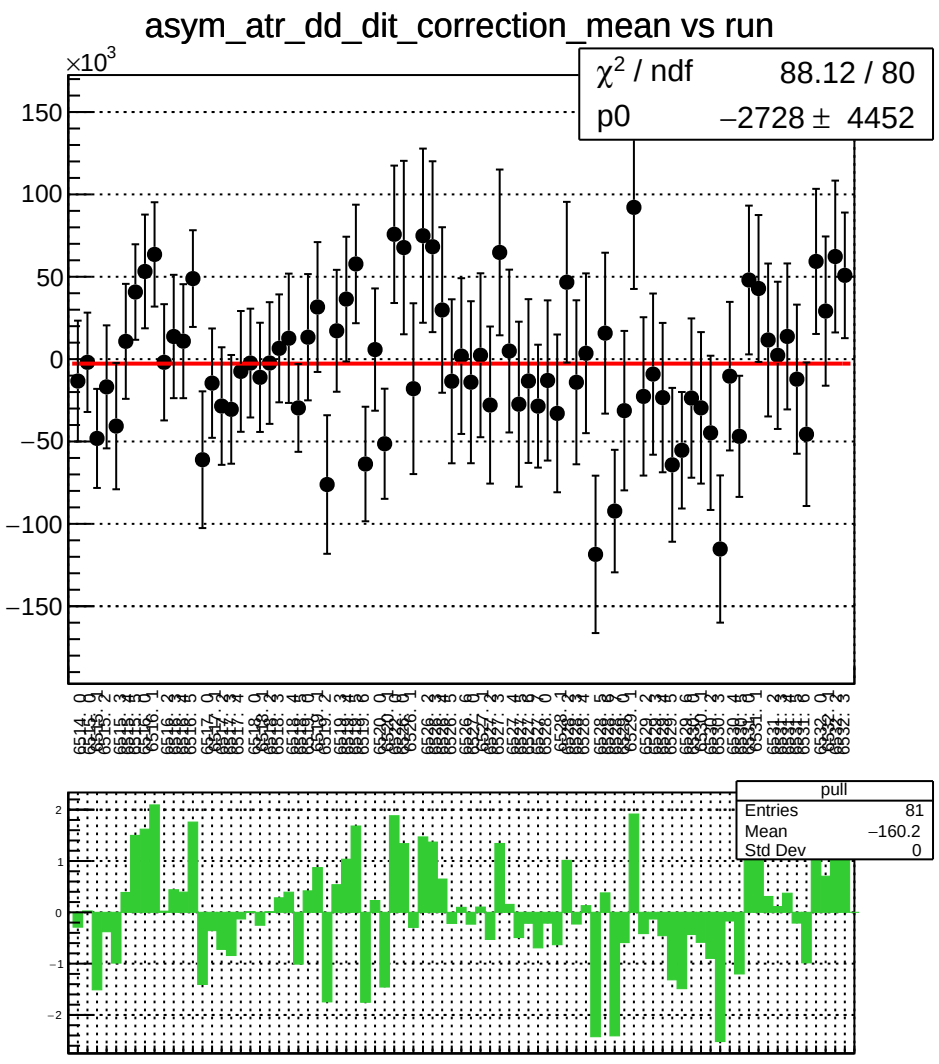

pull1D
Entries 81
Mean 0.01421
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

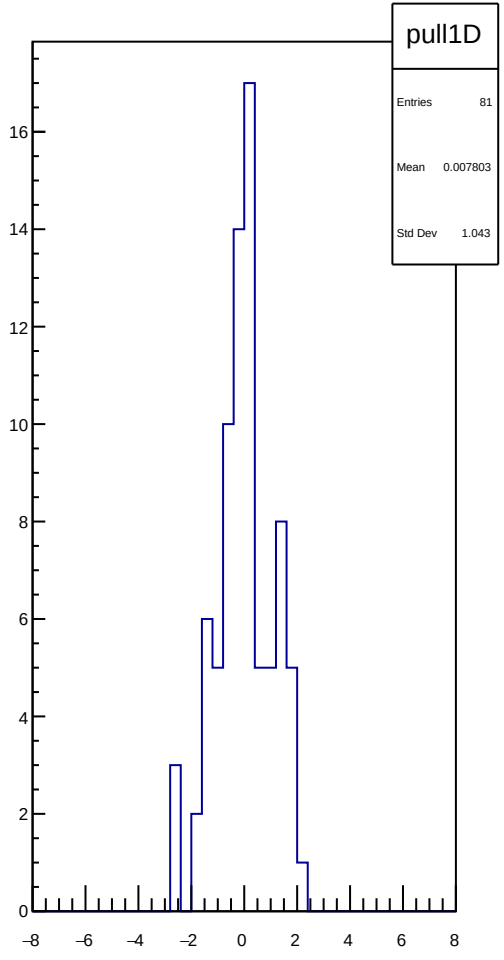

asym_atr_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.446e+04 / 80
p0 3883 ± 3.143
5000
4500
4000
3500
3000

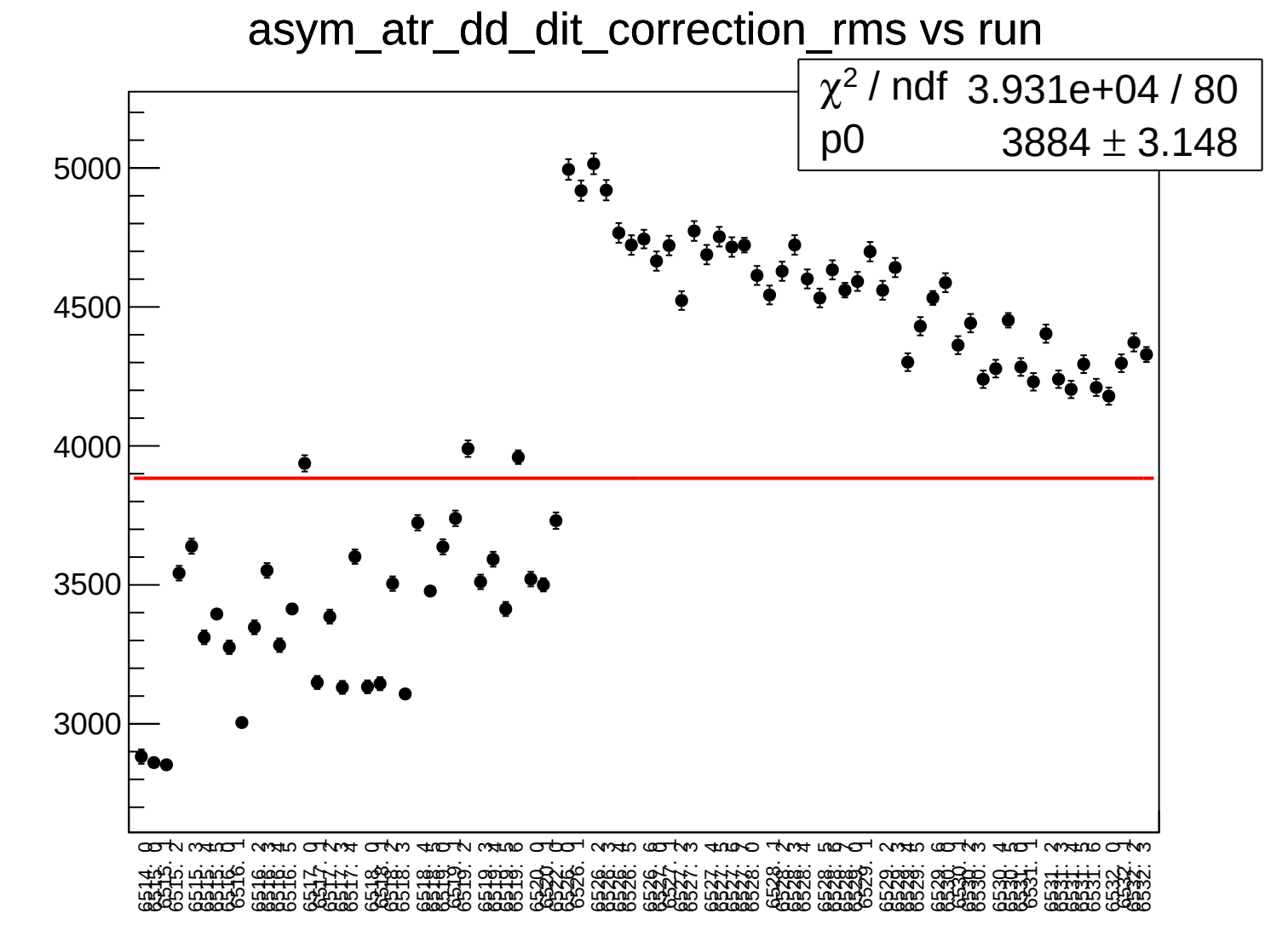

dit_asym_atr_dd_mean vs run
χ² / ndf 69.62 / 80
p0 −634.5 ± 2152
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 81
Mean −270.5
Std Dev 0
2
1
0
−1
−2
−3

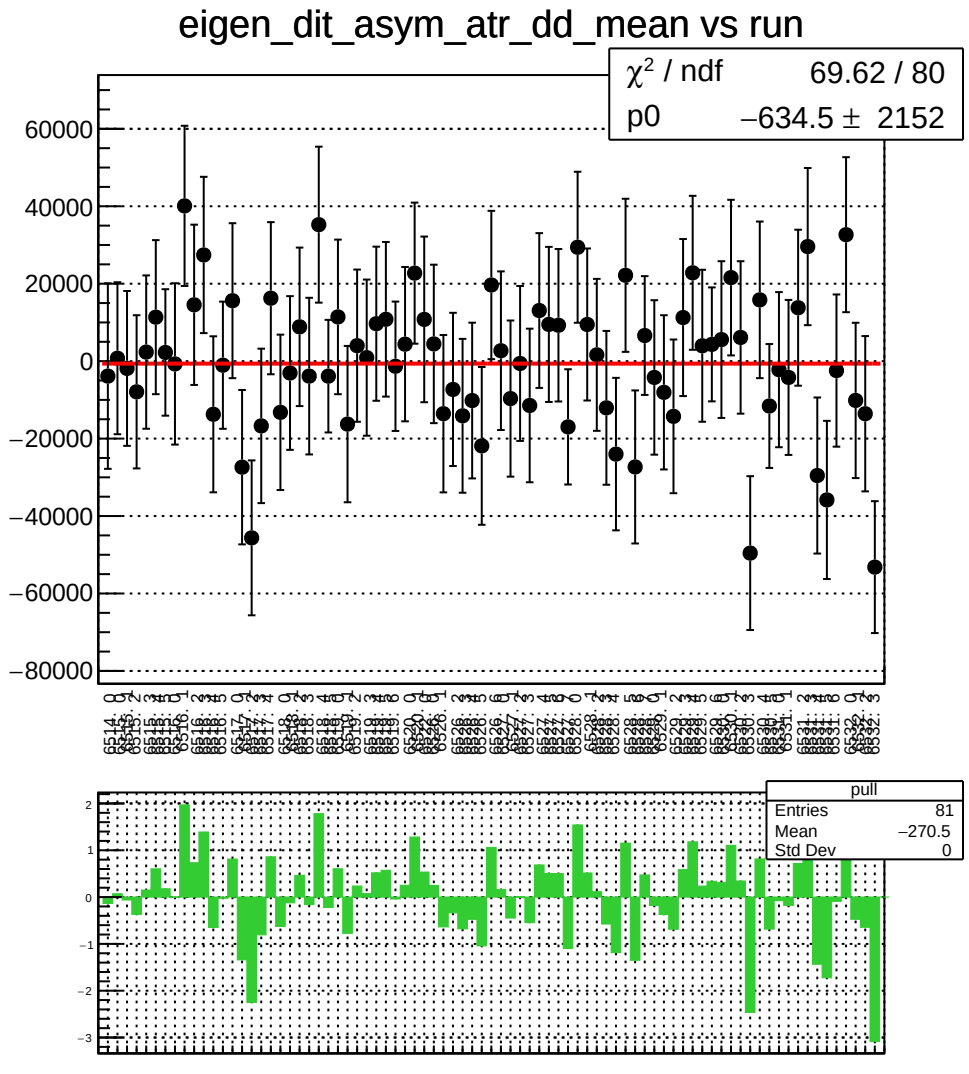

pull1D
Entries 81
Mean 0.009579
Std Dev 0.9271
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

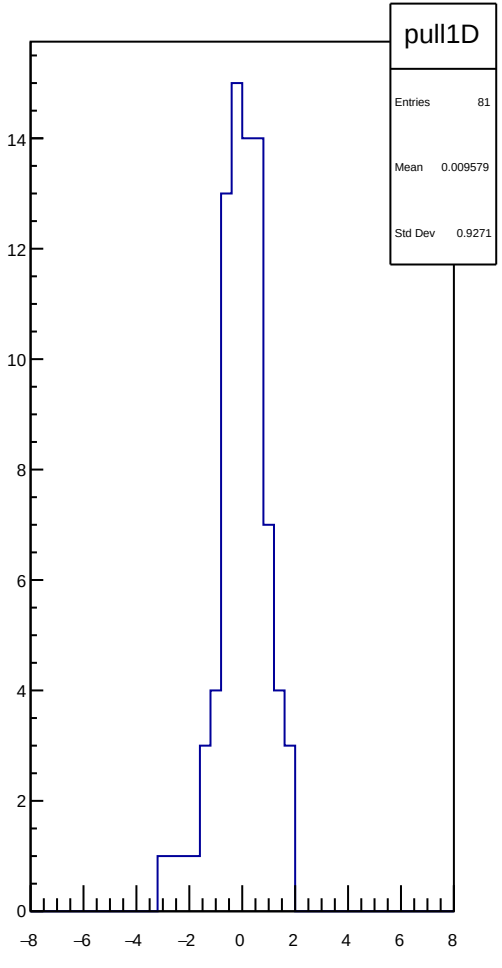

dit_asym_atr_dd_rms vs run
χ² / ndf 253.8 / 80
p0 1901 ± 1.521
2000
1980
1960
1940
1920
1900
1880
1860
1840

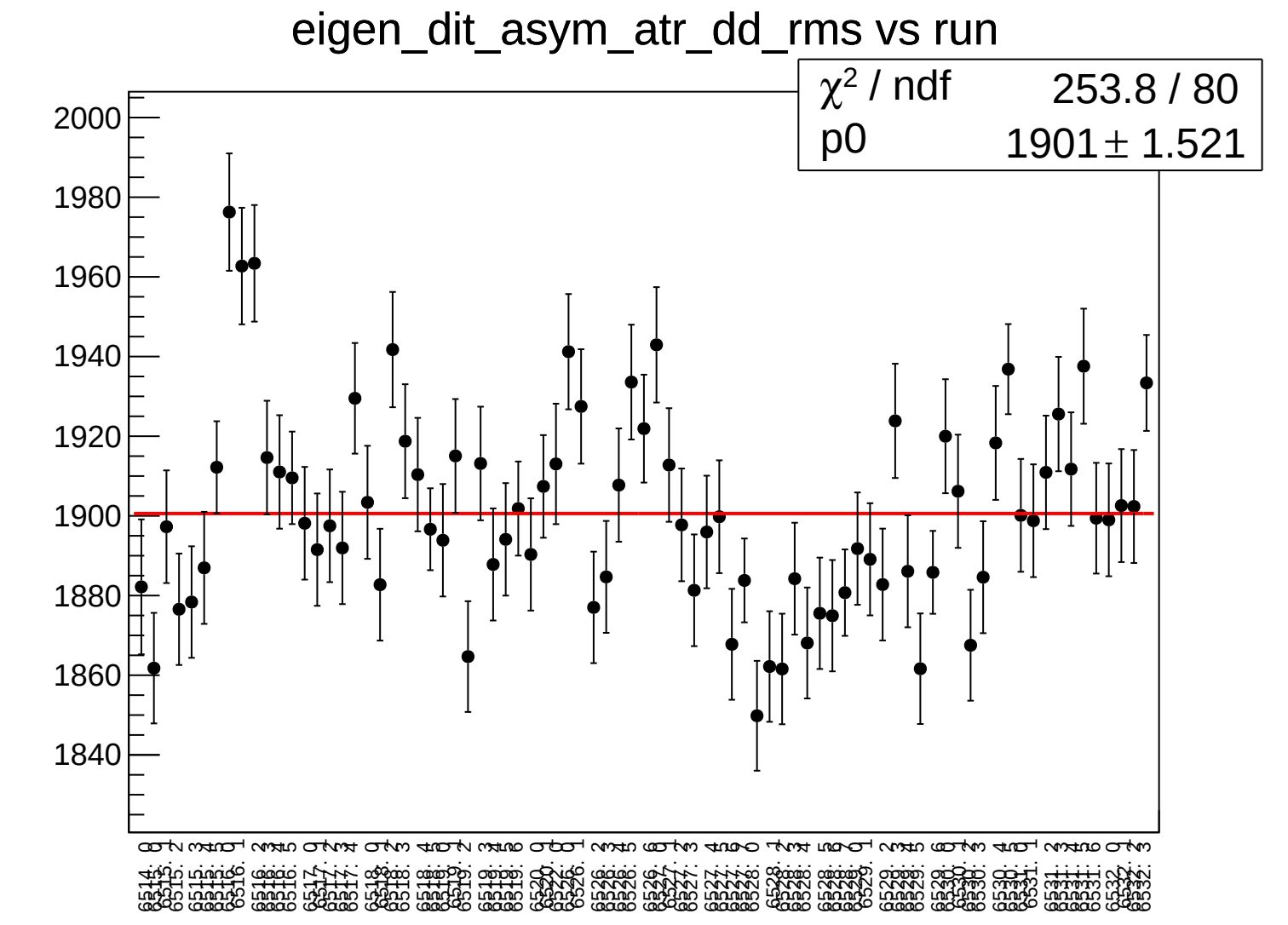

asym_atr_dd_dit_correction_mean vs run
×10^3
χ² / ndf 88.12 / 80
p0 −2728 ± 4452
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean −160.2
Std Dev 0
2
1
0
−1
−2

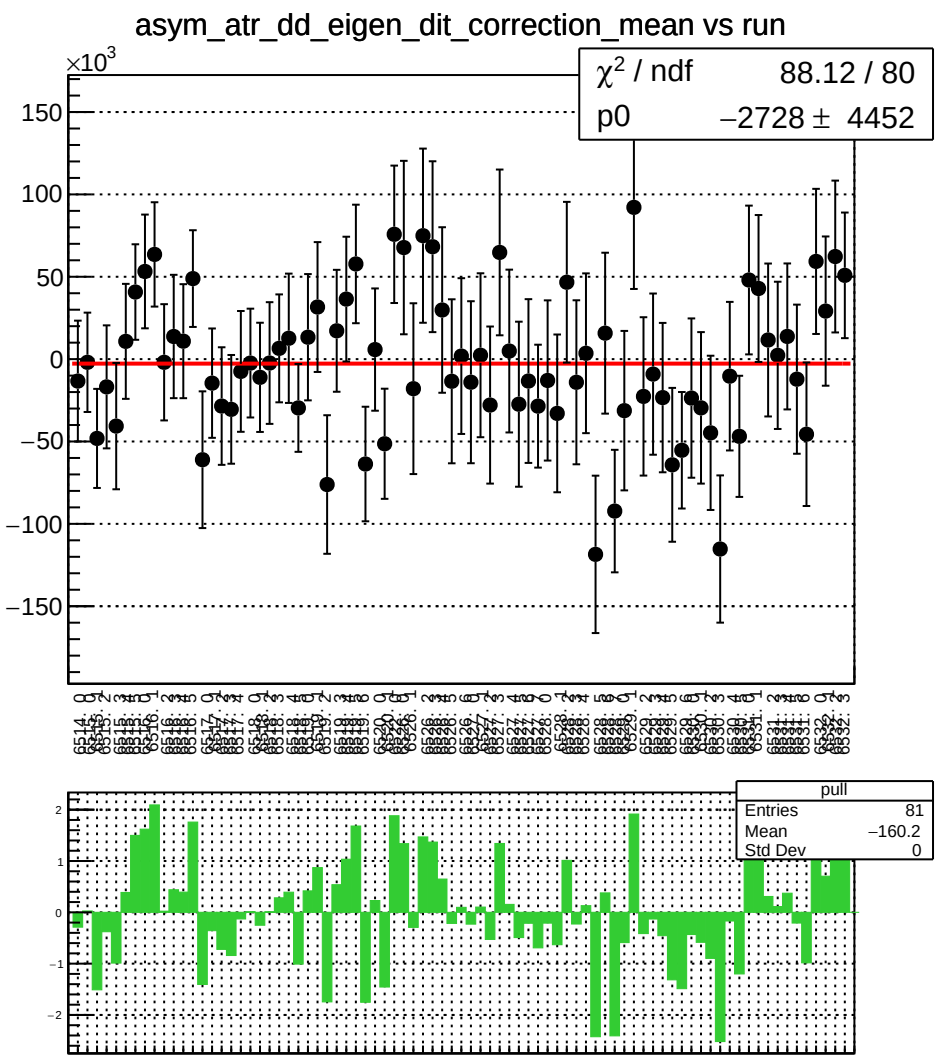

pull1D
Entries 81
Mean 0.007803
Std Dev 1.043
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

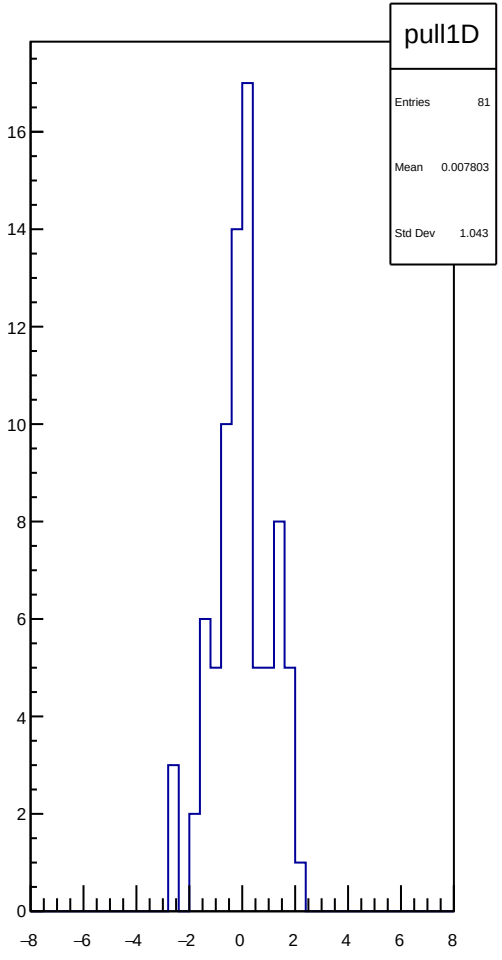

asym_atr_dd_dit_correction_rms vs run
χ² / ndf 3.931e+04 / 80
p0 3884 ± 3.148
5000
4500
4000
3500
3000

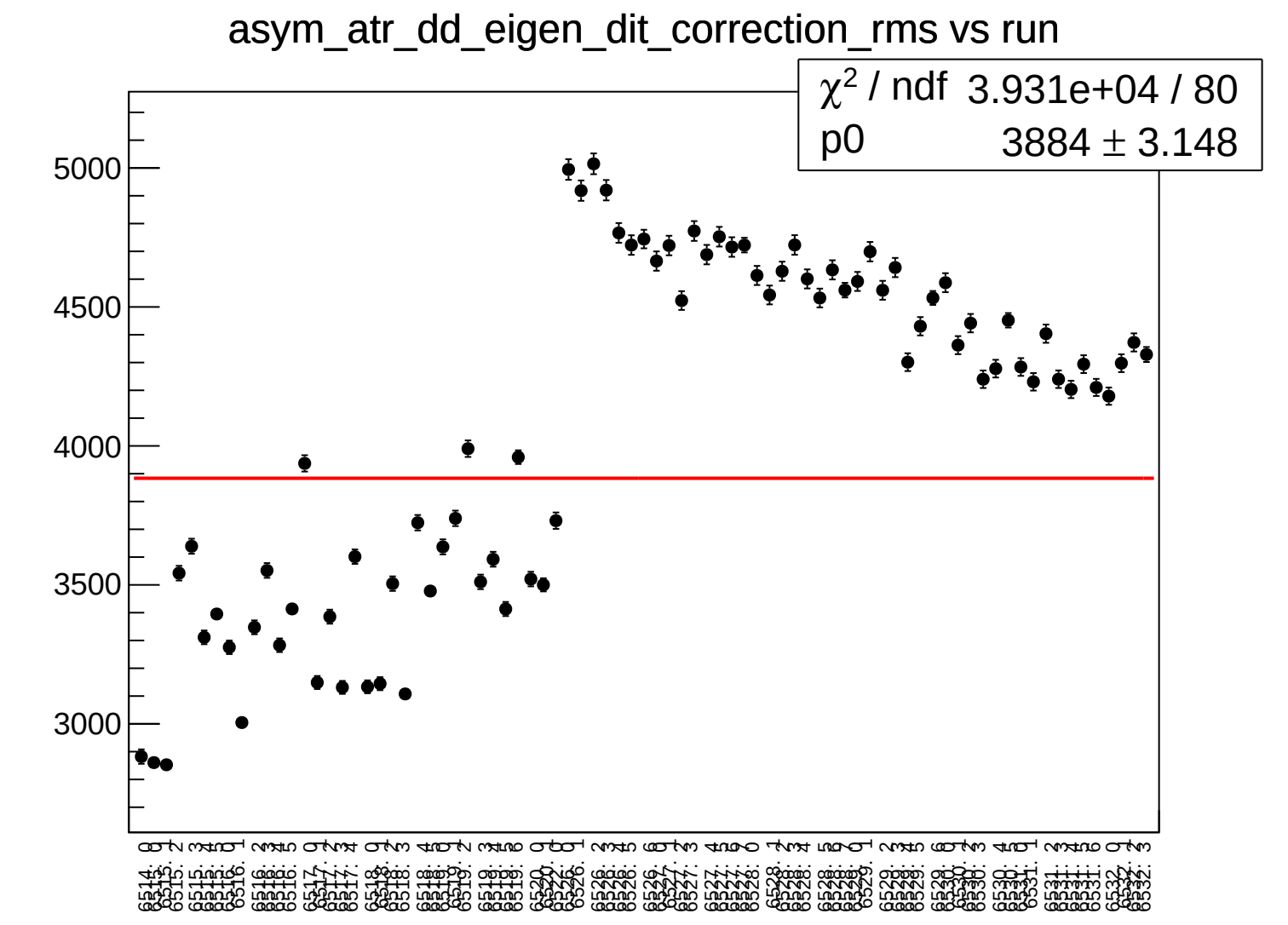

eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 69.62 / 80
p0 −634.5 ± 2152
pull
Entries 81
Mean −270.5
Std Dev 0

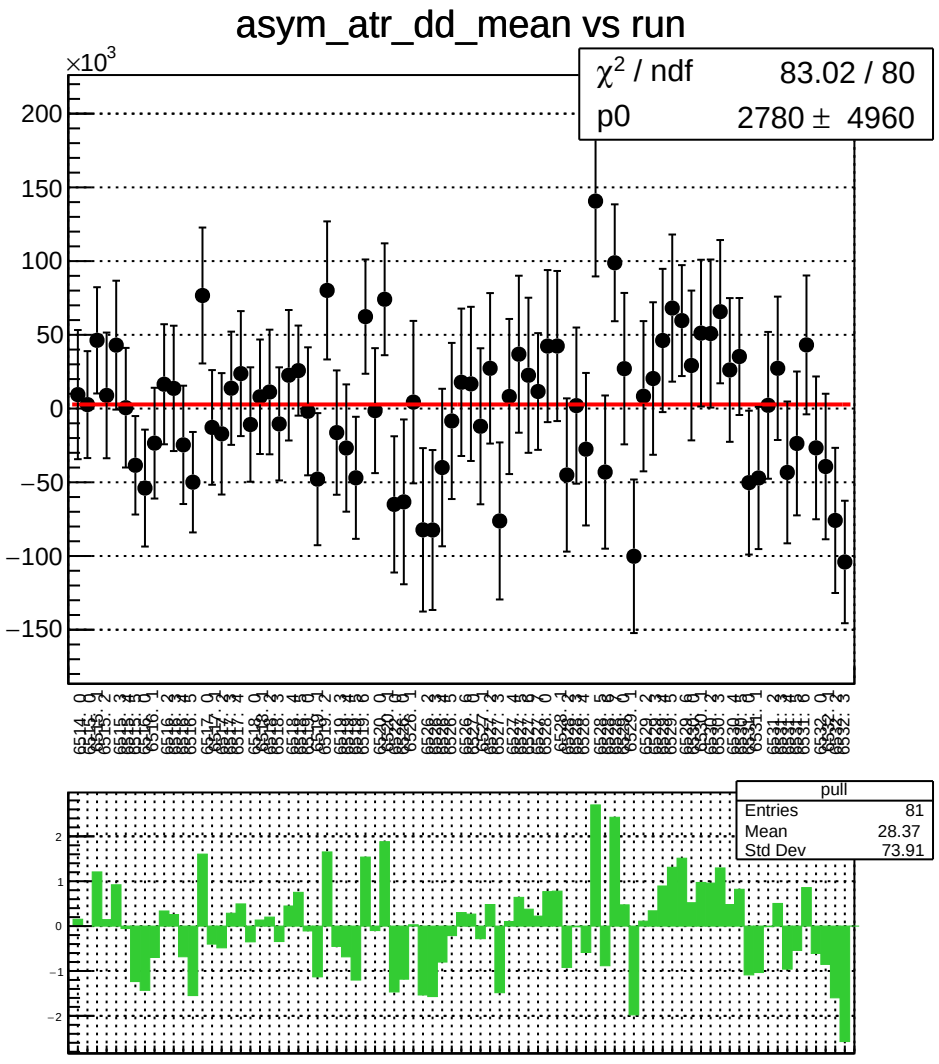

pull1D
Entries 81
Mean 0.009579
Std Dev 0.9271

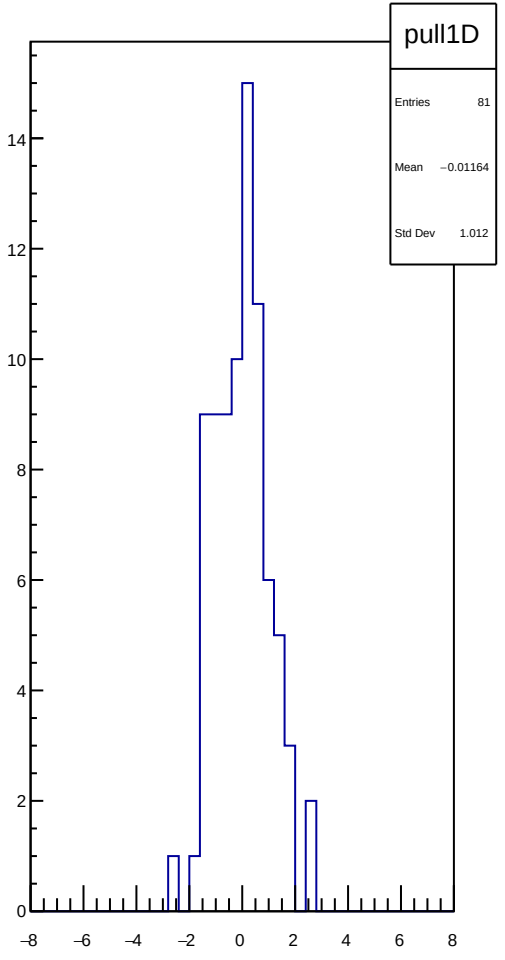

eigen_dit_asym_atr_dd_rms vs run
χ² / ndf 253.8 / 80
p0 1901 ± 1.521
2000
1980
1960
1940
1920
1900
1880
1860
1840

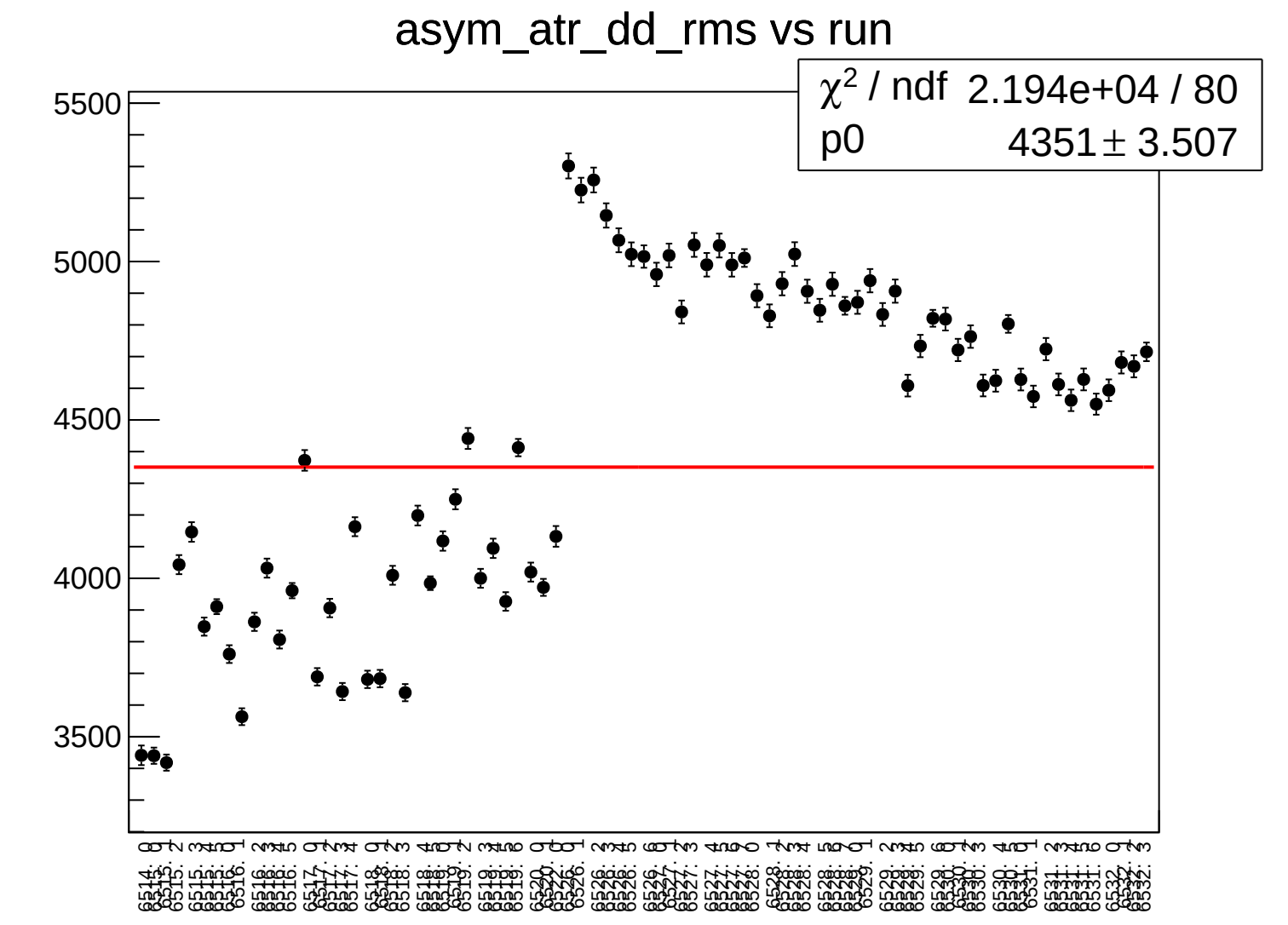

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 88.12 / 80
p0 −2728 ± 4452
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean −160.2
Std Dev 0
2
1
0
−1
−2

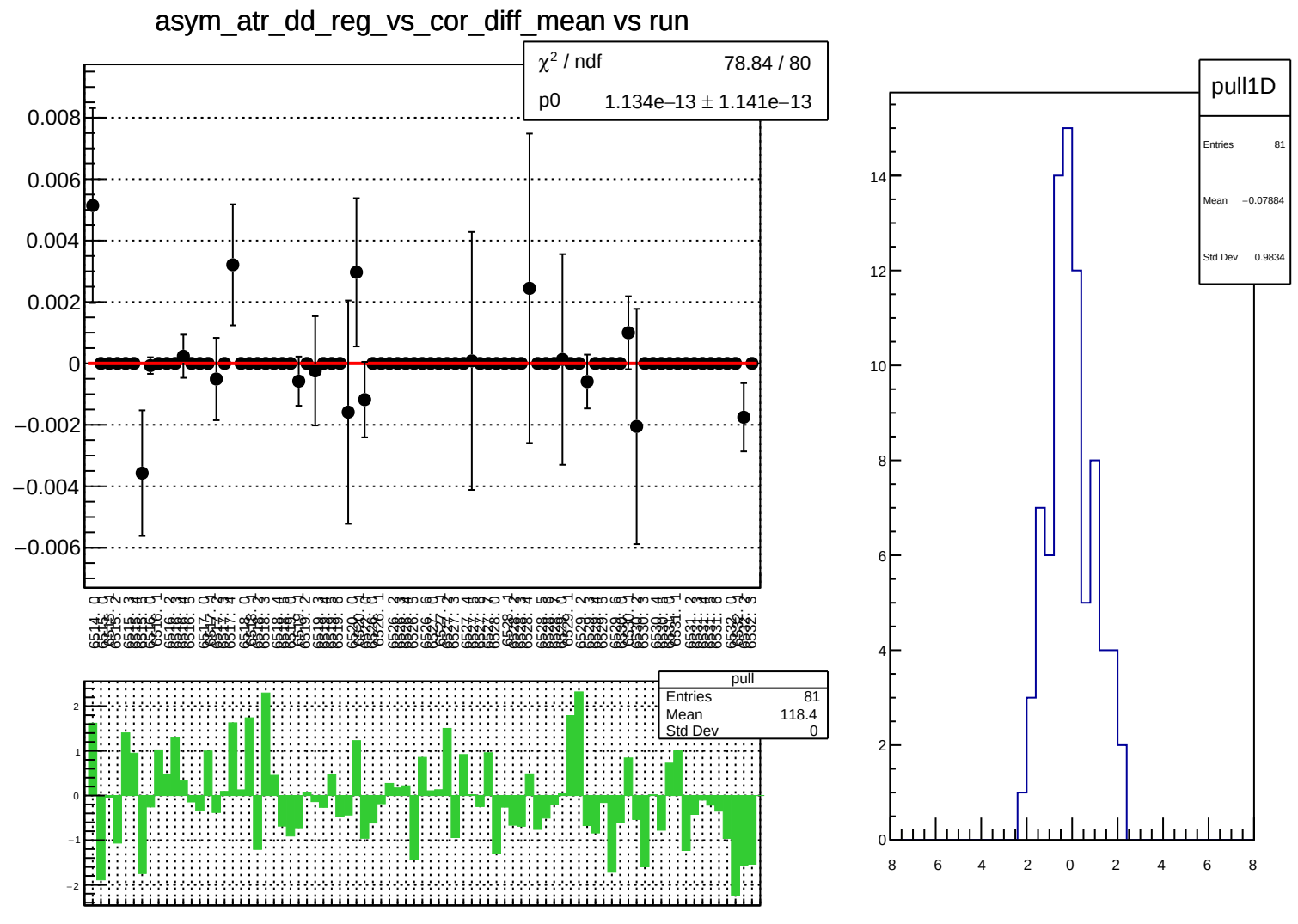

pull1D
Entries 81
Mean 0.007803
Std Dev 1.043
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

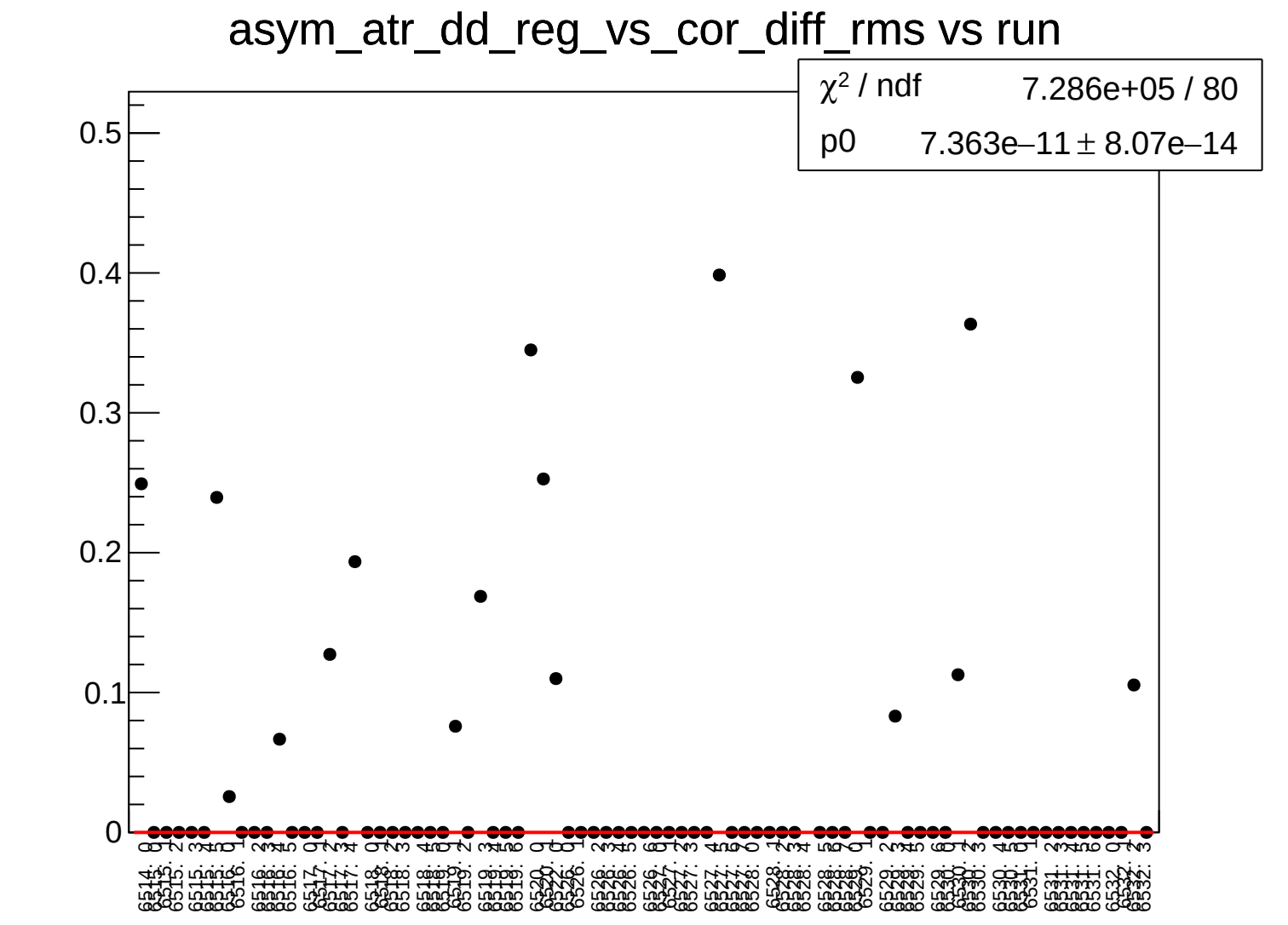

asym_atr_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.931e+04 / 80
p0 3884 ± 3.148
5000
4500
4000
3500
3000

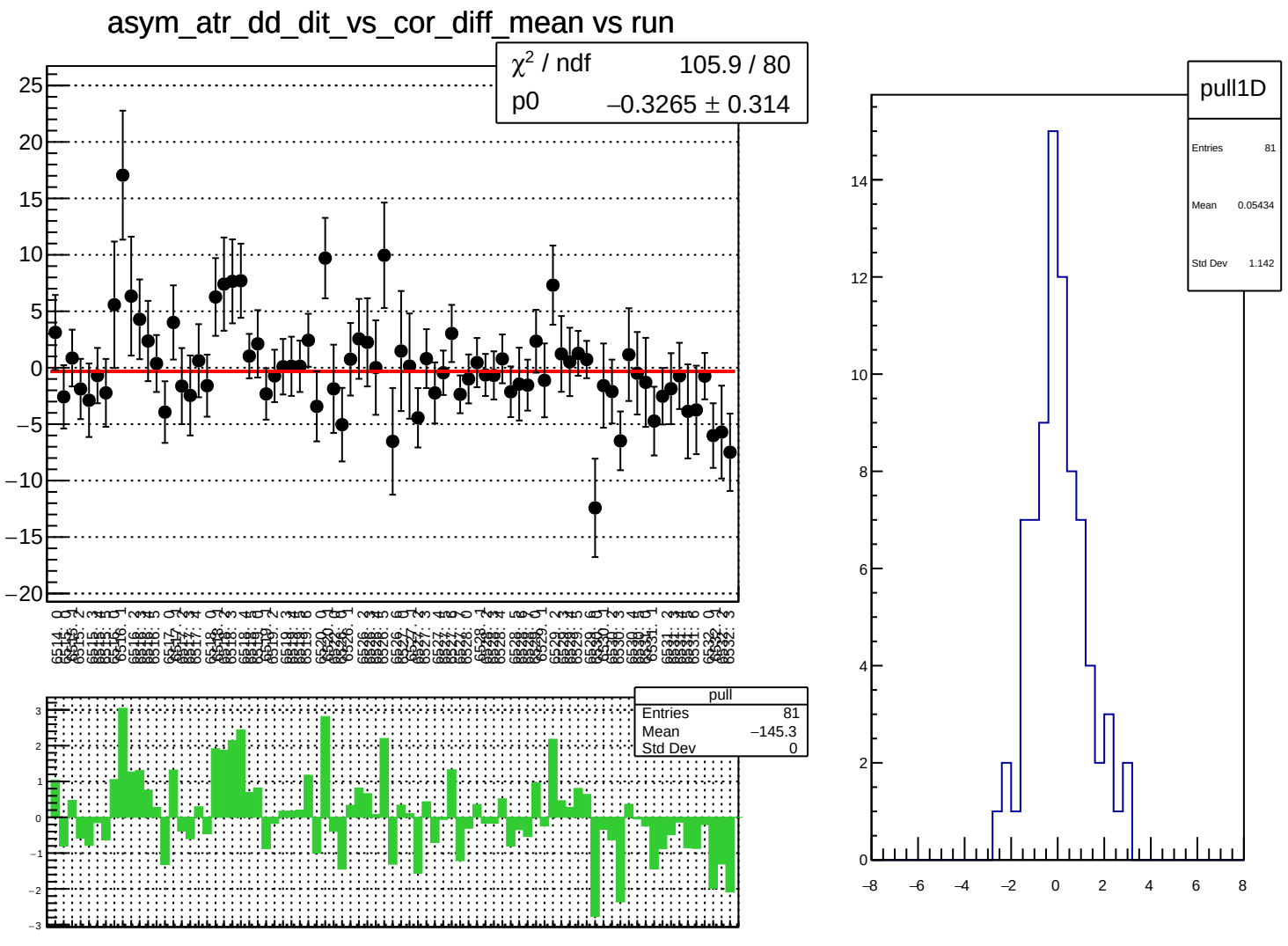

asym_atr_dd_mean vs run
×10^3
χ^2 / ndf 83.02 / 80
p0 2780 ± 4960
pull
Entries 81
Mean 28.37
Std Dev 73.91

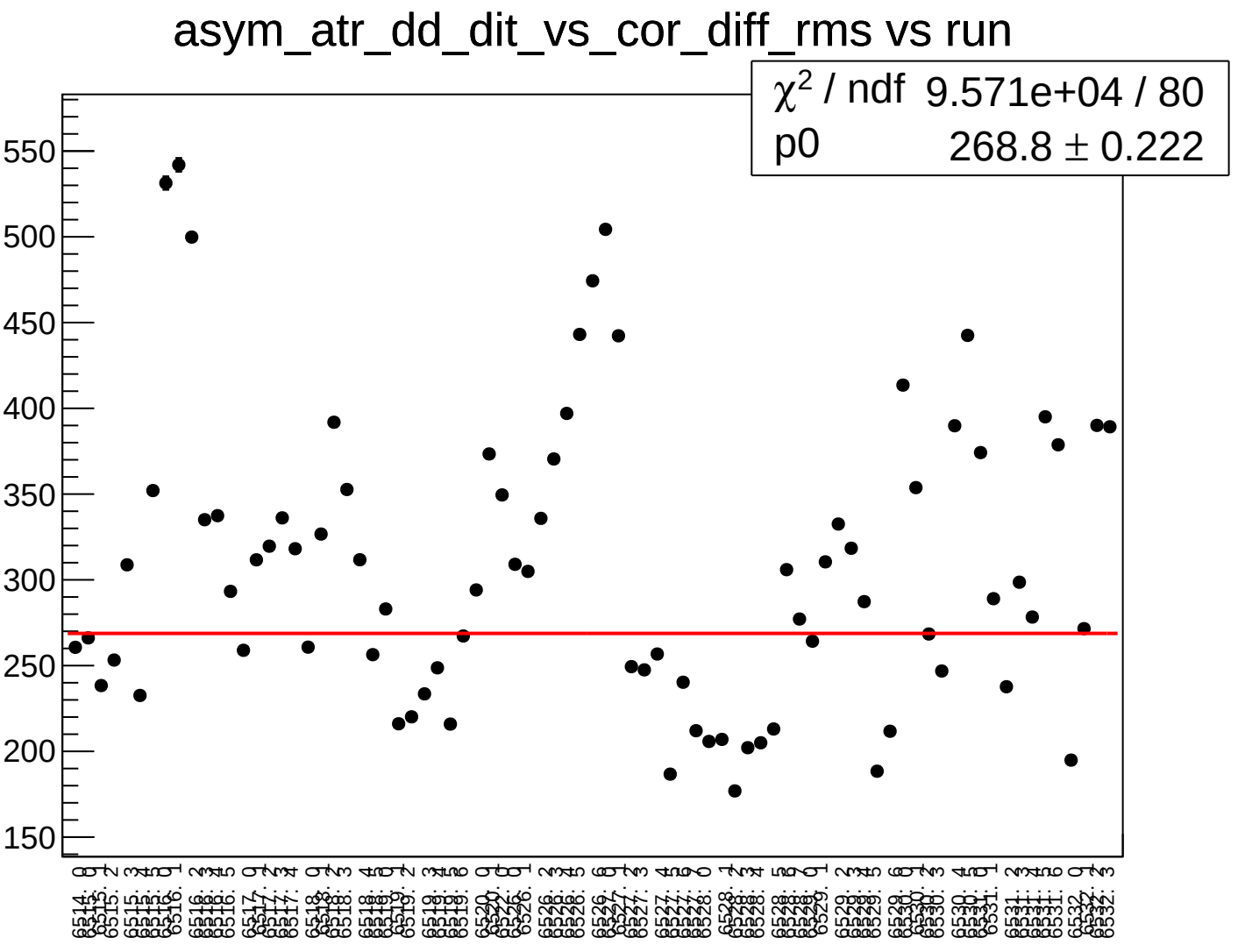

pull1D
Entries 81
Mean −0.01164
Std Dev 1.012

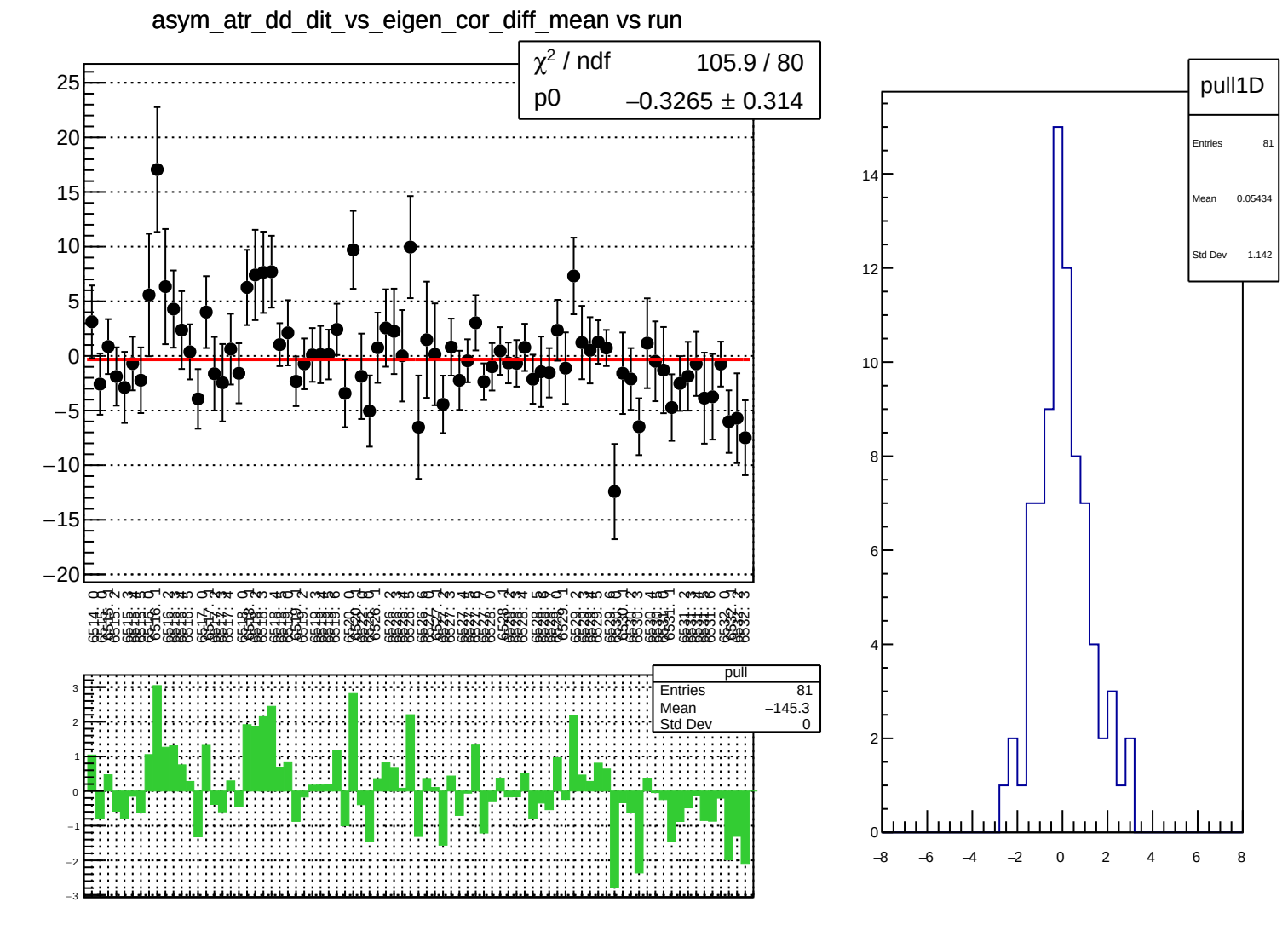

asym_atr_dd_rms vs run
χ² / ndf 2.194e+04 / 80
p0 4351 ± 3.507
5500
5000
4500
4000
3500

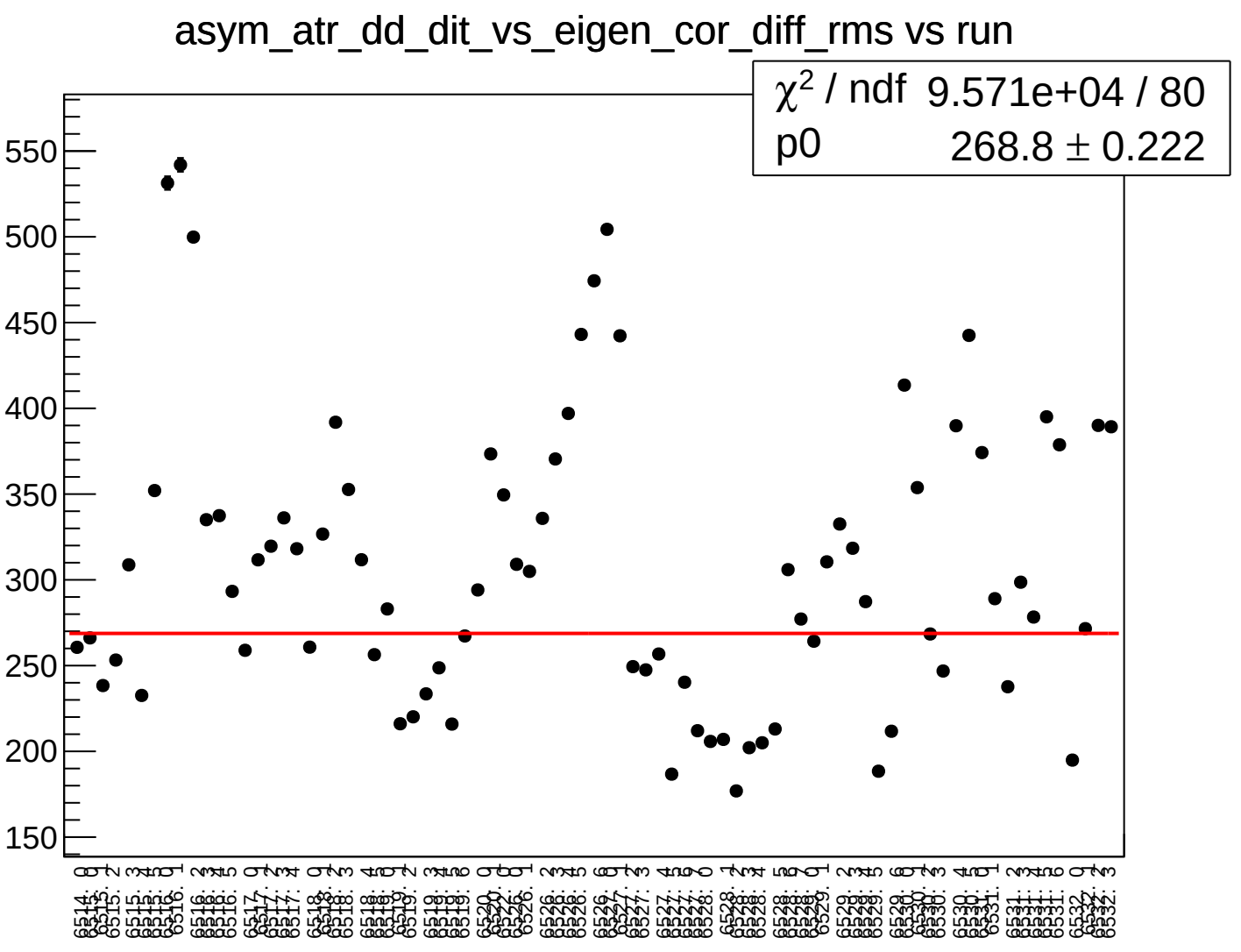

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 78.84 / 80
p0 1.134e−13 ± 1.141e−13
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
pull
Entries 81
Mean 118.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 81
Mean −0.07884
Std Dev 0.9834
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

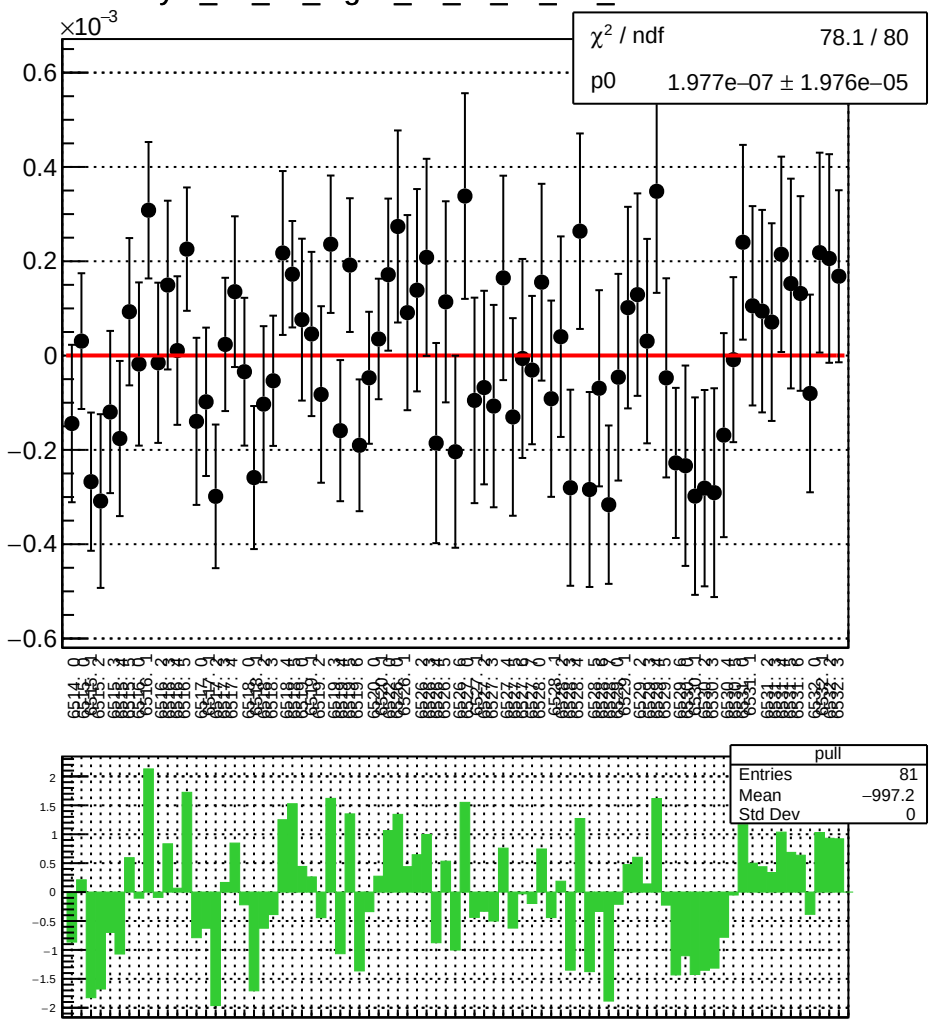

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.286e+05 / 80
p0 7.363e−11 ± 8.07e−14
0.5
0.4
0.3
0.2
0.1
0

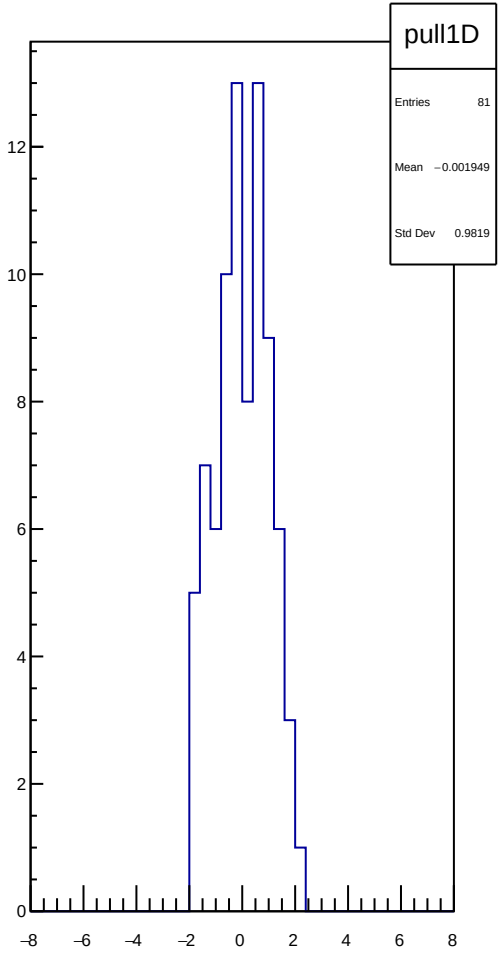

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 105.9 / 80
p0 −0.3265 ± 0.314
pull
Entries 81
Mean −145.3
Std Dev 0
pull1D
Entries 81
Mean 0.05434
Std Dev 1.142

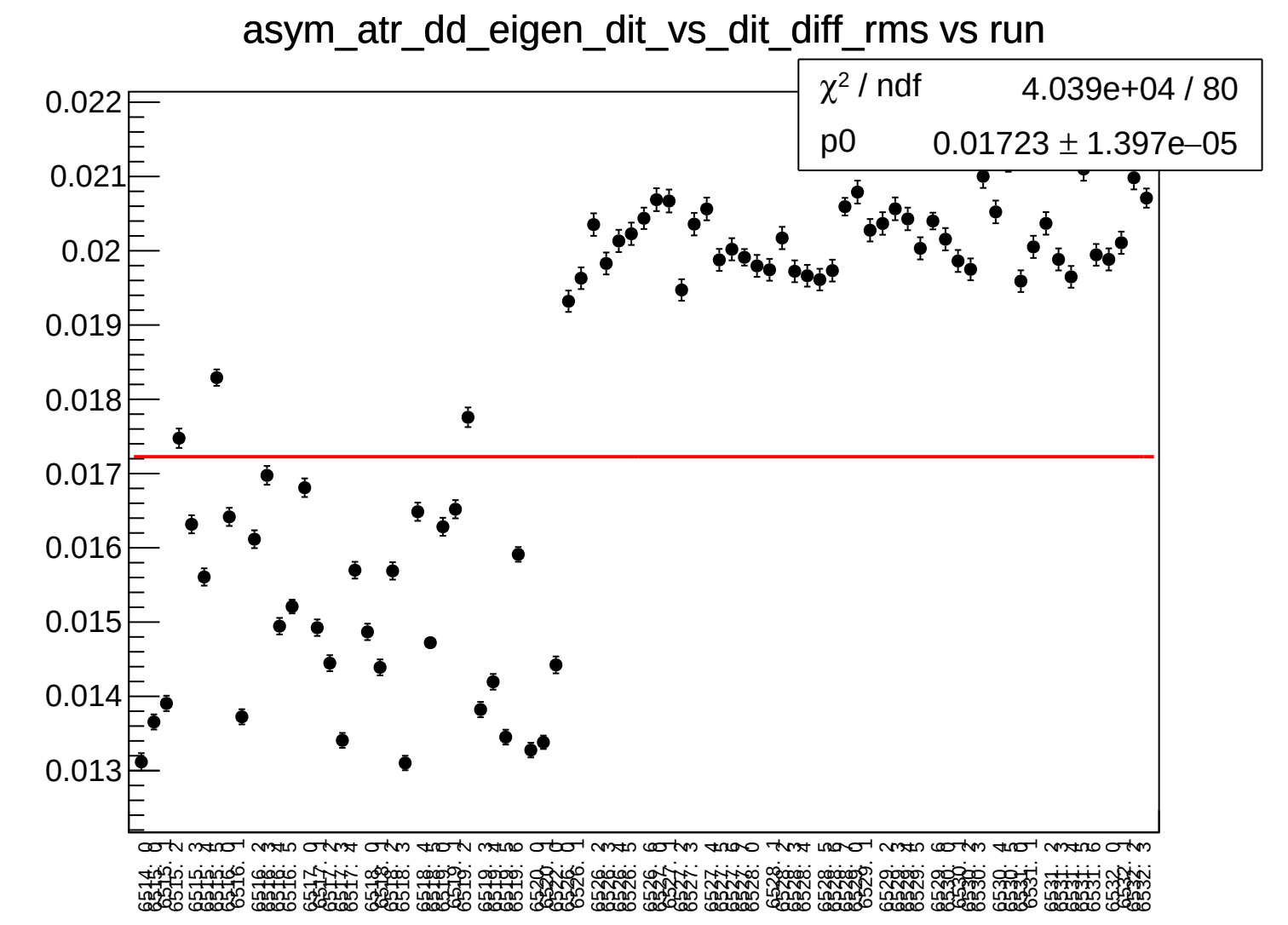

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9.571e+04 / 80
p0 268.8 ± 0.222
550
500
450
400
350
300
250
200
150

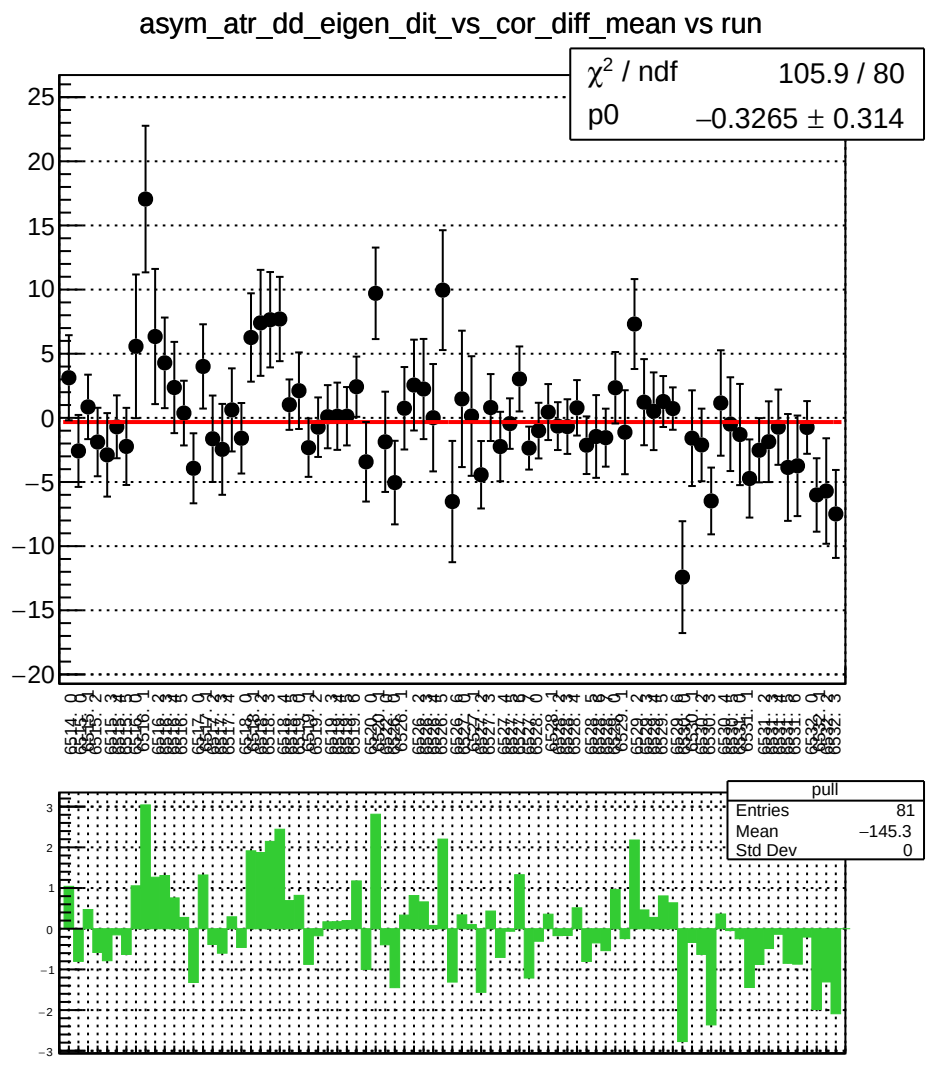

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.9 / 80
p0 −0.3265 ± 0.314
pull
Entries 81
Mean −145.3
Std Dev 0
pull1D
Entries 81
Mean 0.05434
Std Dev 1.142

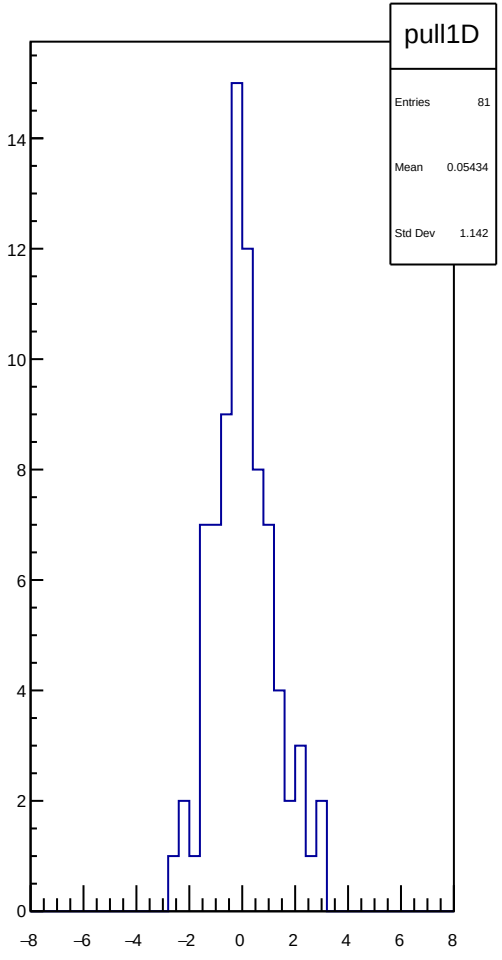

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.571e+04 / 80
p0 268.8 ± 0.222
550
500
450
400
350
300
250
200
150

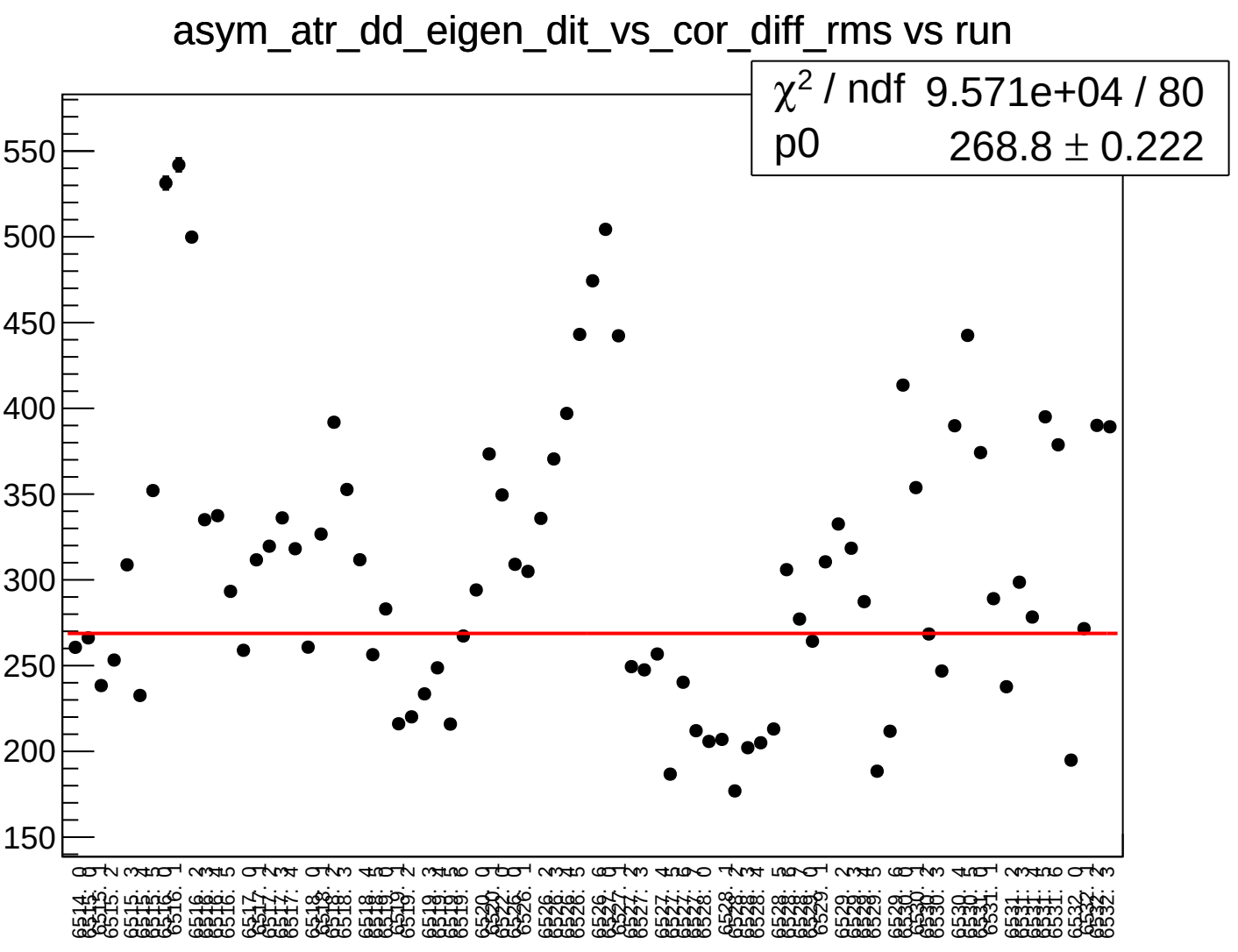

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.1 / 80
p0 1.977e−07 ± 1.976e−05
pull
Entries 81
Mean −997.2
Std Dev 0

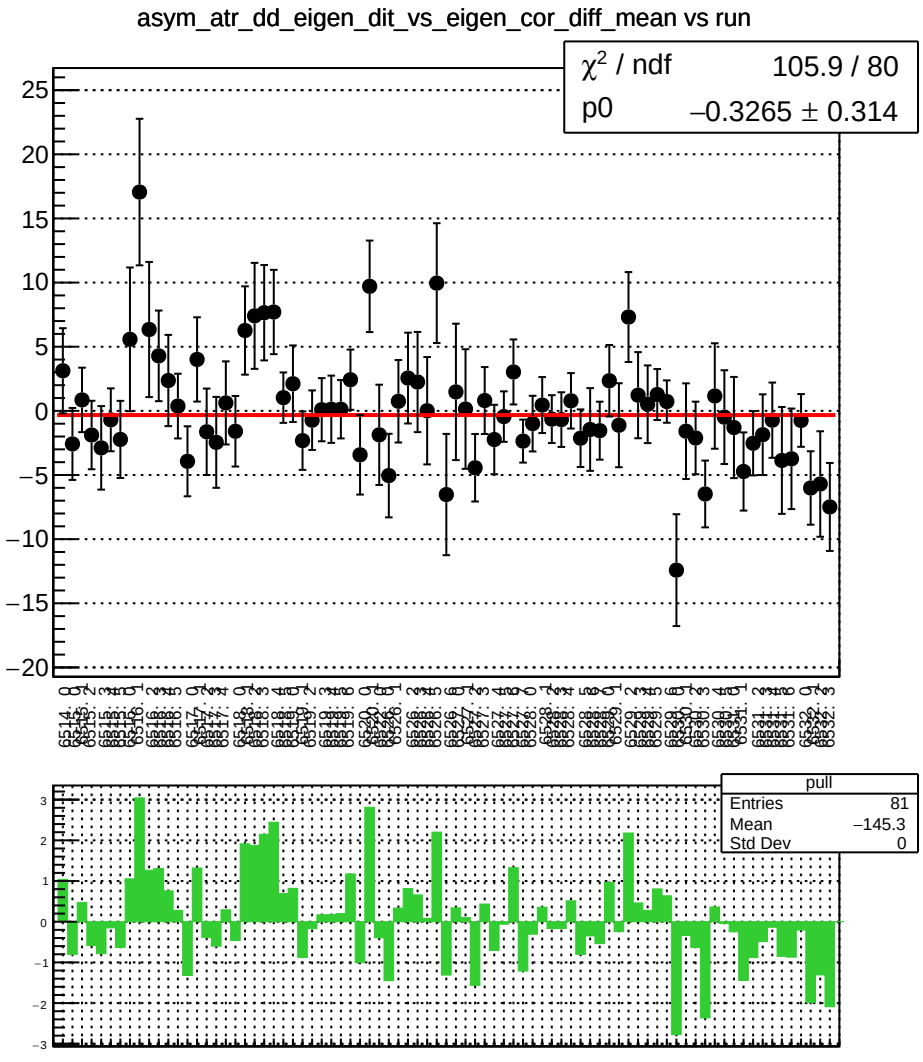

pull1D
Entries 81
Mean −0.001949
Std Dev 0.9819

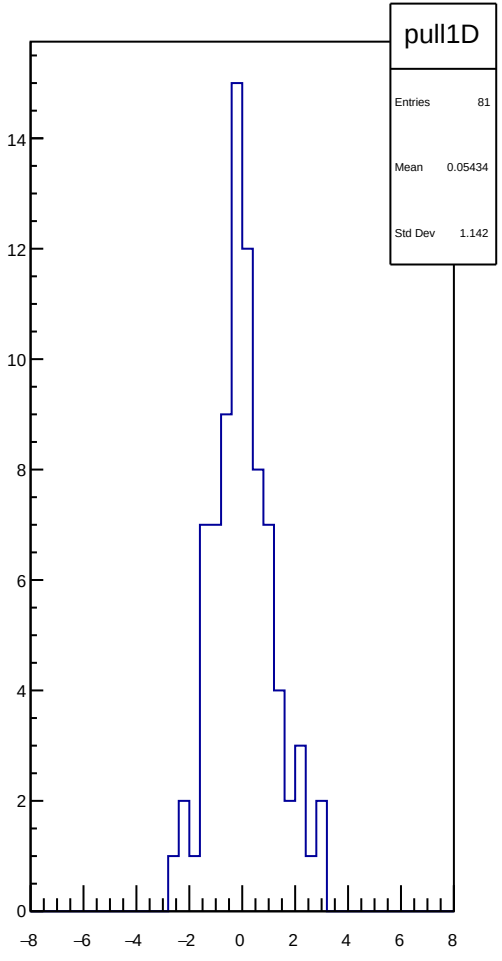

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.039e+04 / 80
p0 0.01723 ± 1.397e−05
0.022
0.021
0.02
0.019
0.018
0.017
0.016
0.015
0.014
0.013

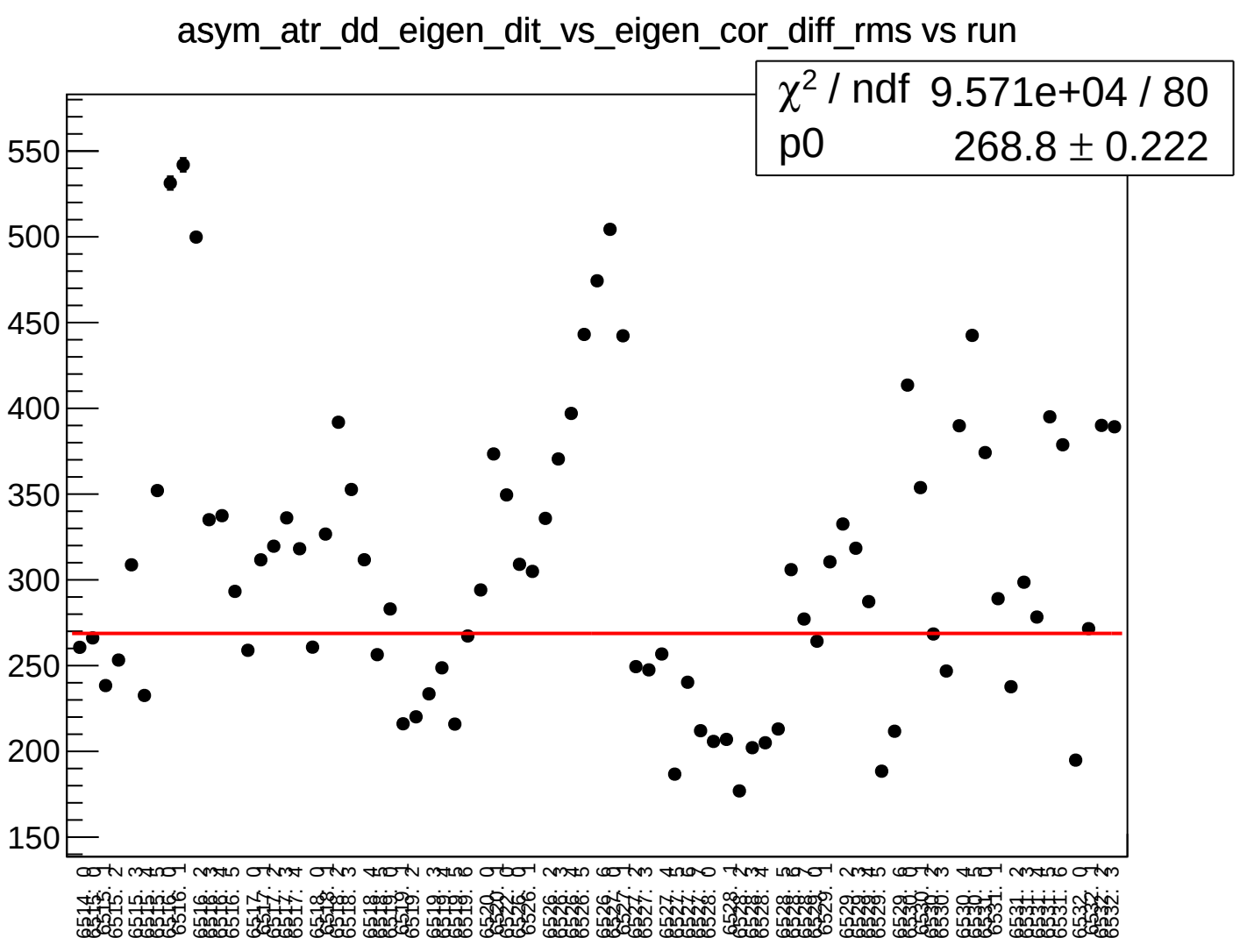

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 105.9 / 80
p0 −0.3265 ± 0.314
pull
Entries 81
Mean −145.3
Std Dev 0

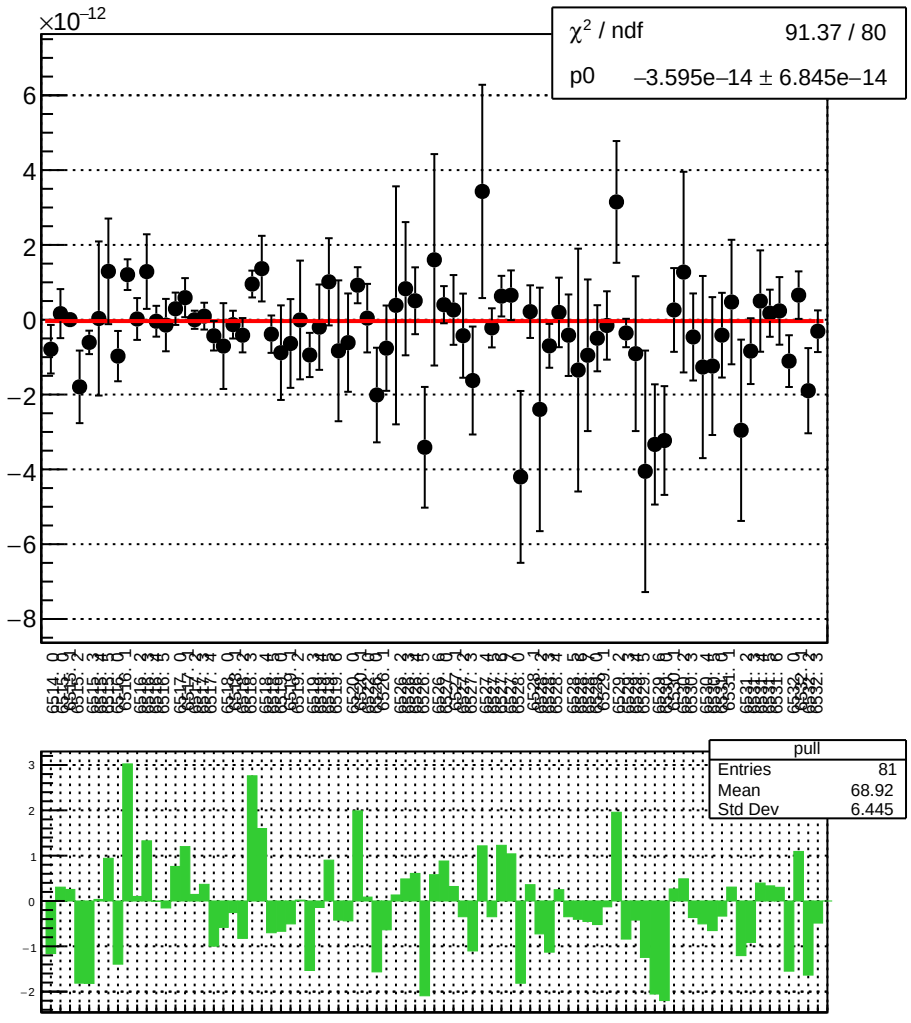

pull1D
Entries 81
Mean 0.05434
Std Dev 1.142

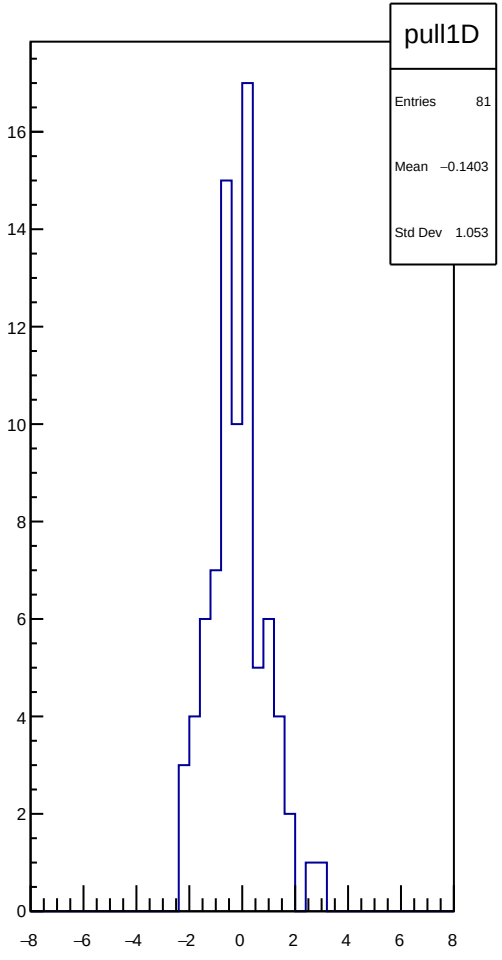

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.571e+04 / 80
p0 268.8 ± 0.222
550
500
450
400
350
300
250
200
150

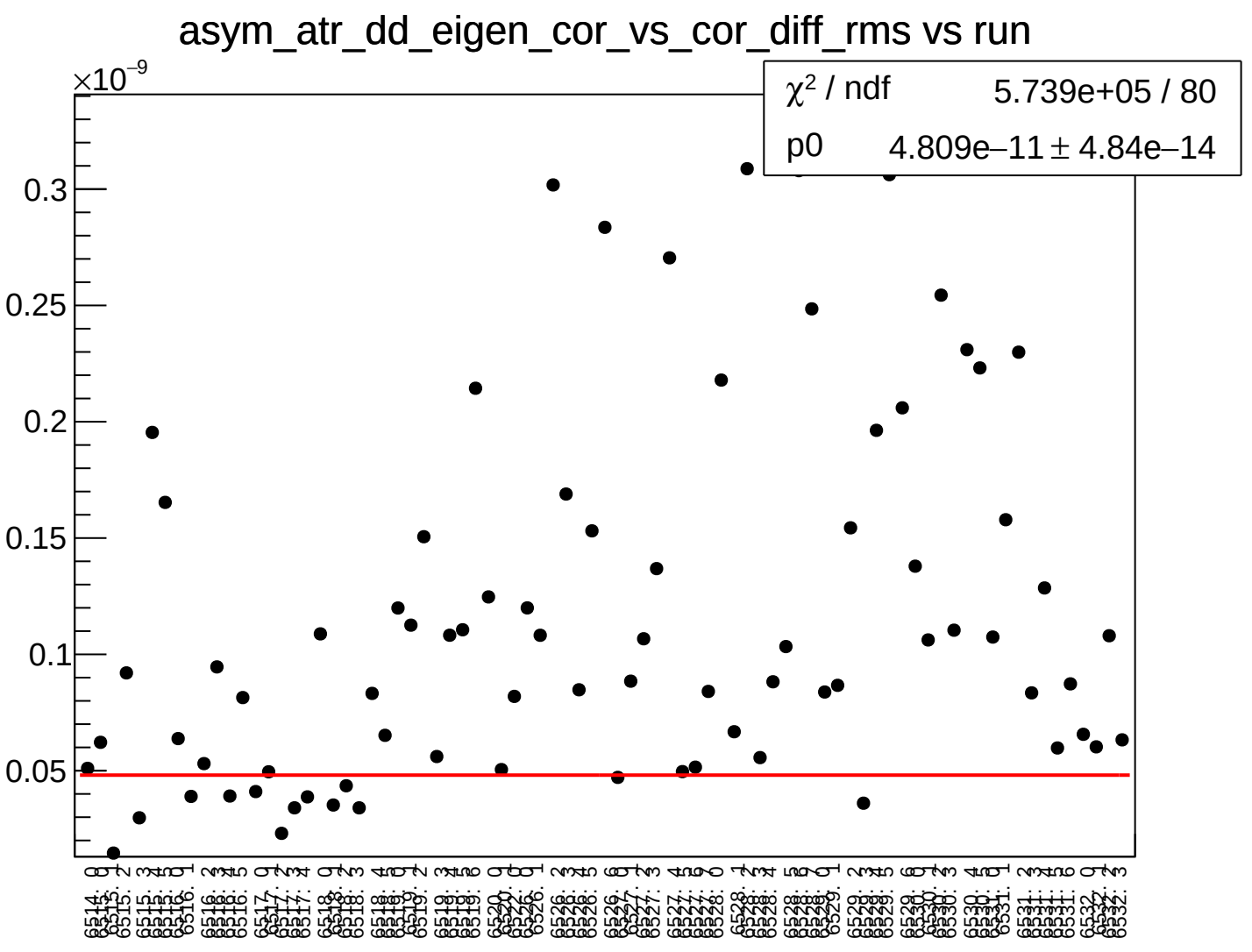

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.9 / 80
p0 −0.3265 ± 0.314
pull
Entries 81
Mean −145.3
Std Dev 0

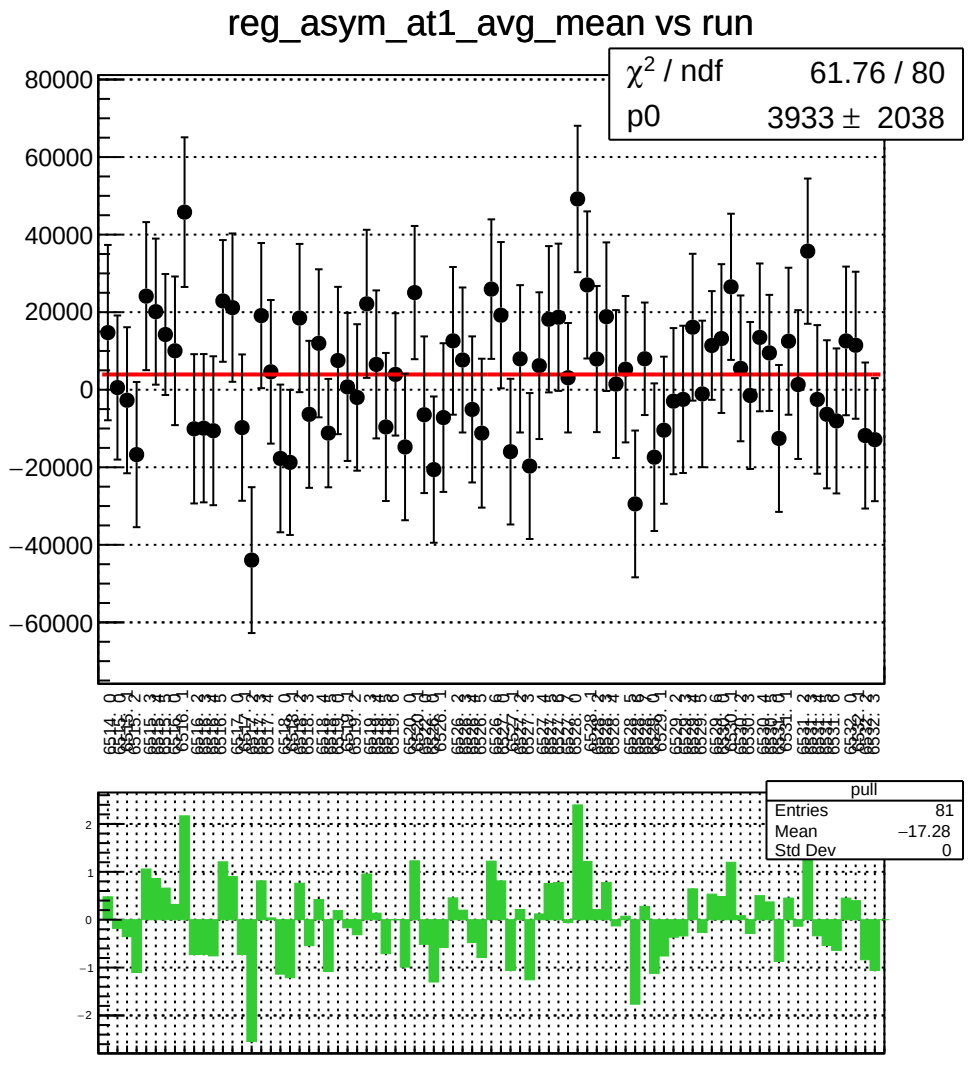

pull1D
Entries 81
Mean 0.05434
Std Dev 1.142

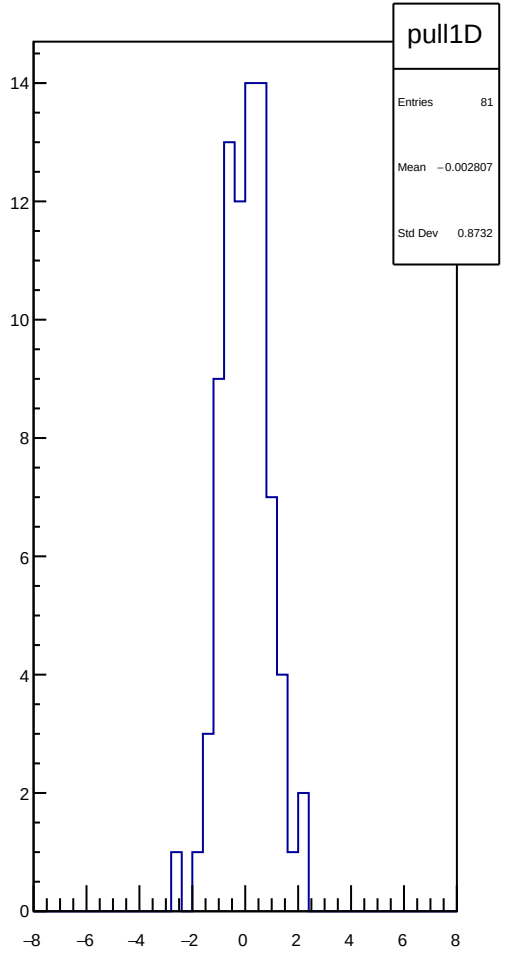

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.571e+04 / 80
p0 268.8 ± 0.222
550
500
450
400
350
300
250
200
150

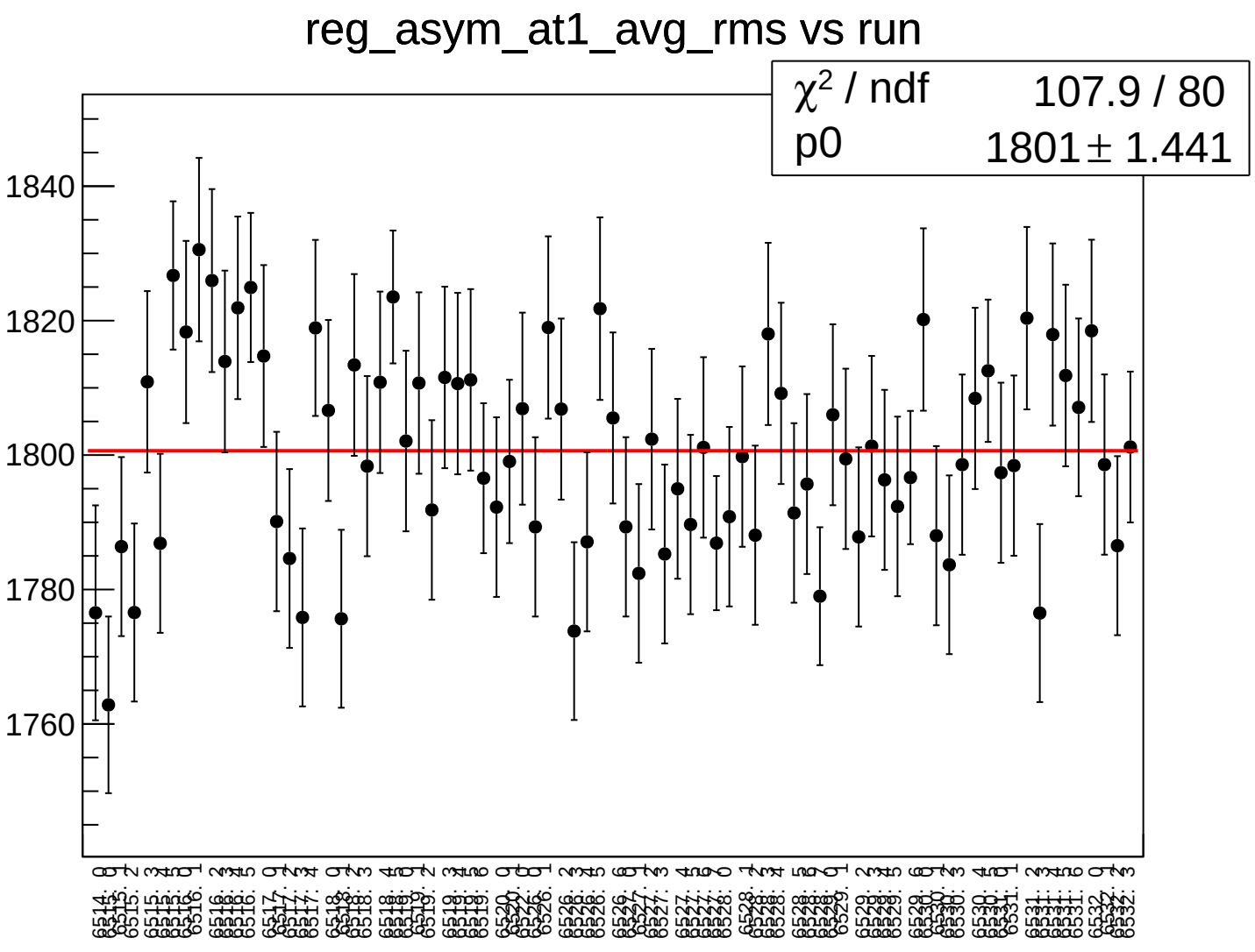

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.37 / 80
p0 −3.595e−14 ± 6.845e−14
pull
Entries 81
Mean 68.92
Std Dev 6.445

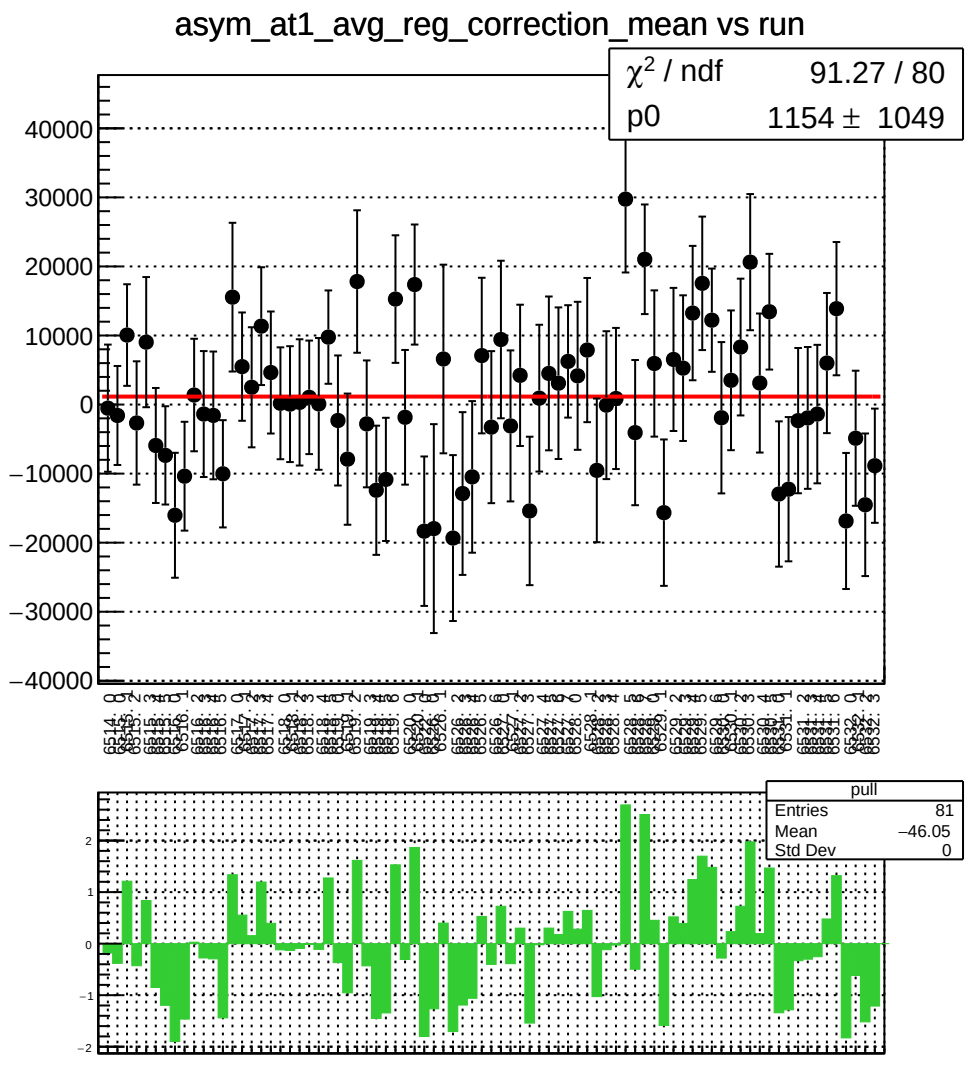

pull1D
Entries 81
Mean −0.1403
Std Dev 1.053

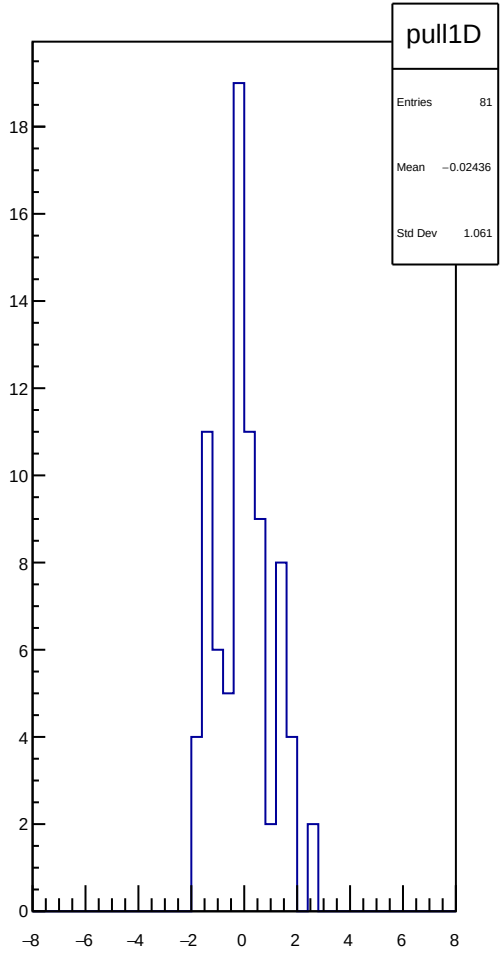

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.739e+05 / 80
p0 4.809e−11 ± 4.84e−14
0.3
0.25
0.2
0.15
0.1
0.05

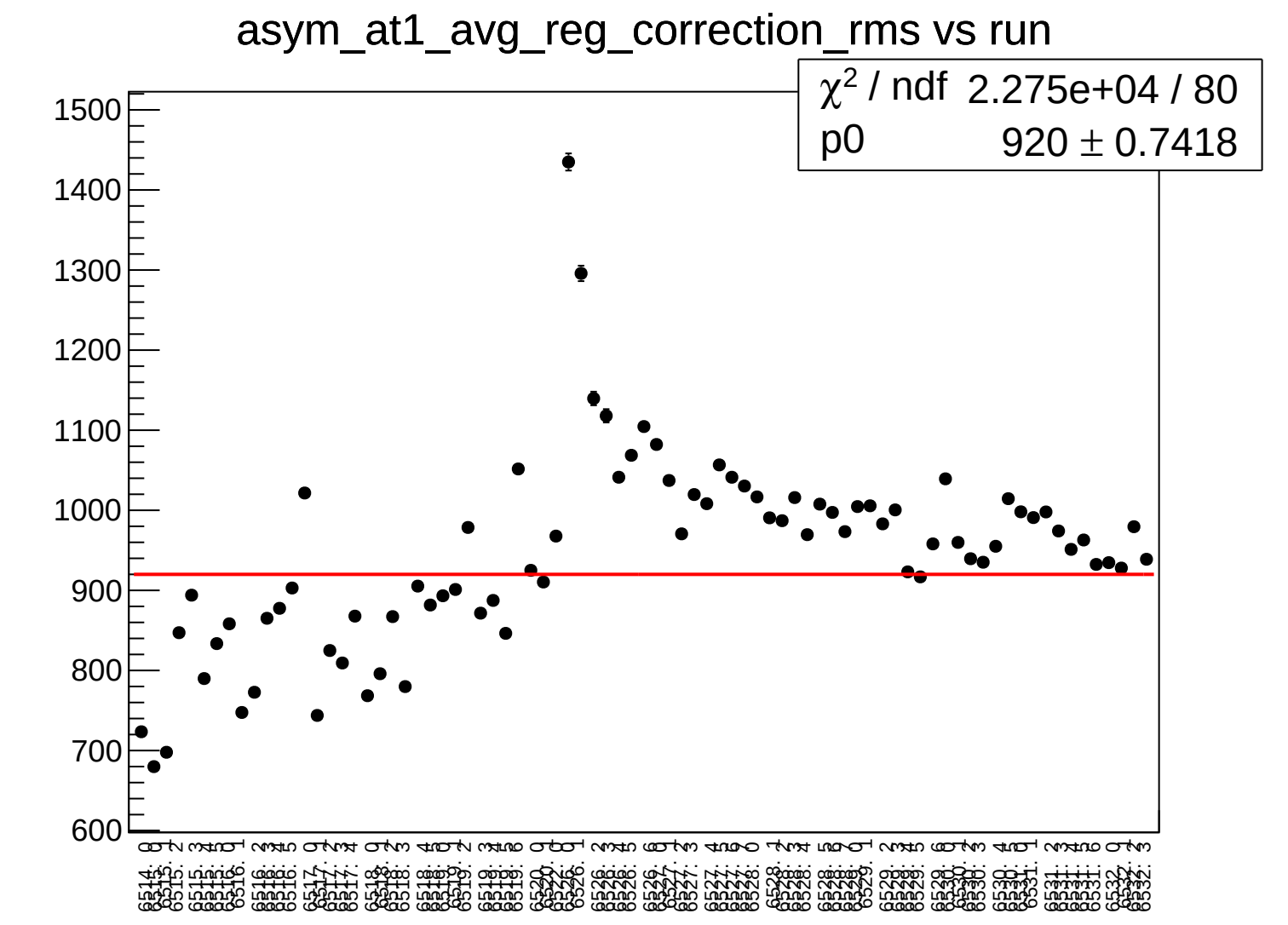

reg_asym_at1_avg_mean vs run
χ² / ndf 61.76 / 80
p0 3933 ± 2038
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −17.28
Std Dev 0
2
1
0
−1
−2

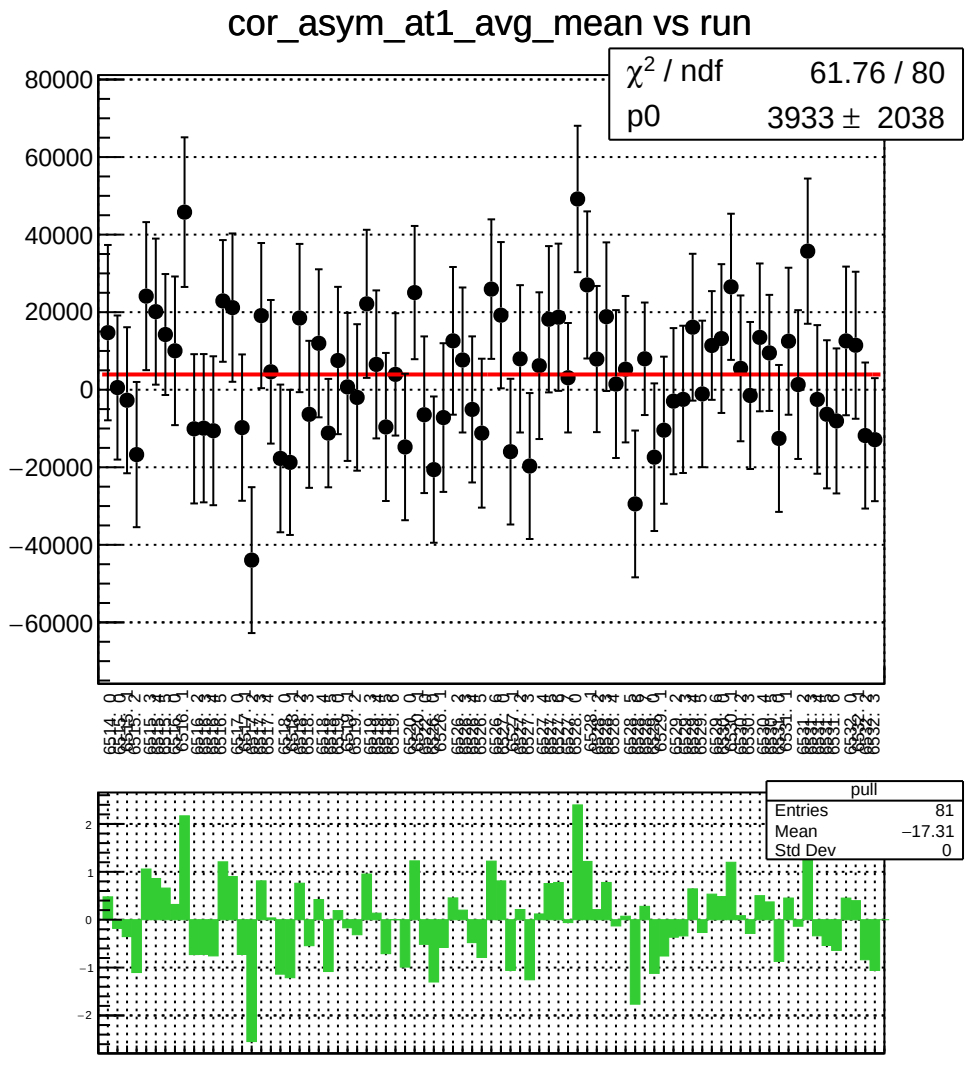

pull1D
Entries 81
Mean −0.002807
Std Dev 0.8732
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

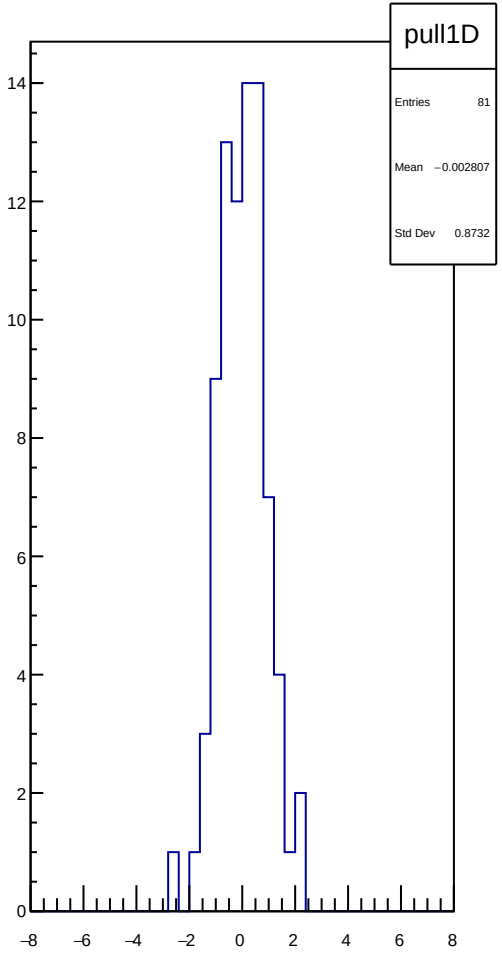

reg_asym_at1_avg_rms vs run
χ² / ndf 107.9 / 80
p0 1801 ± 1.441
1840
1820
1800
1780
1760

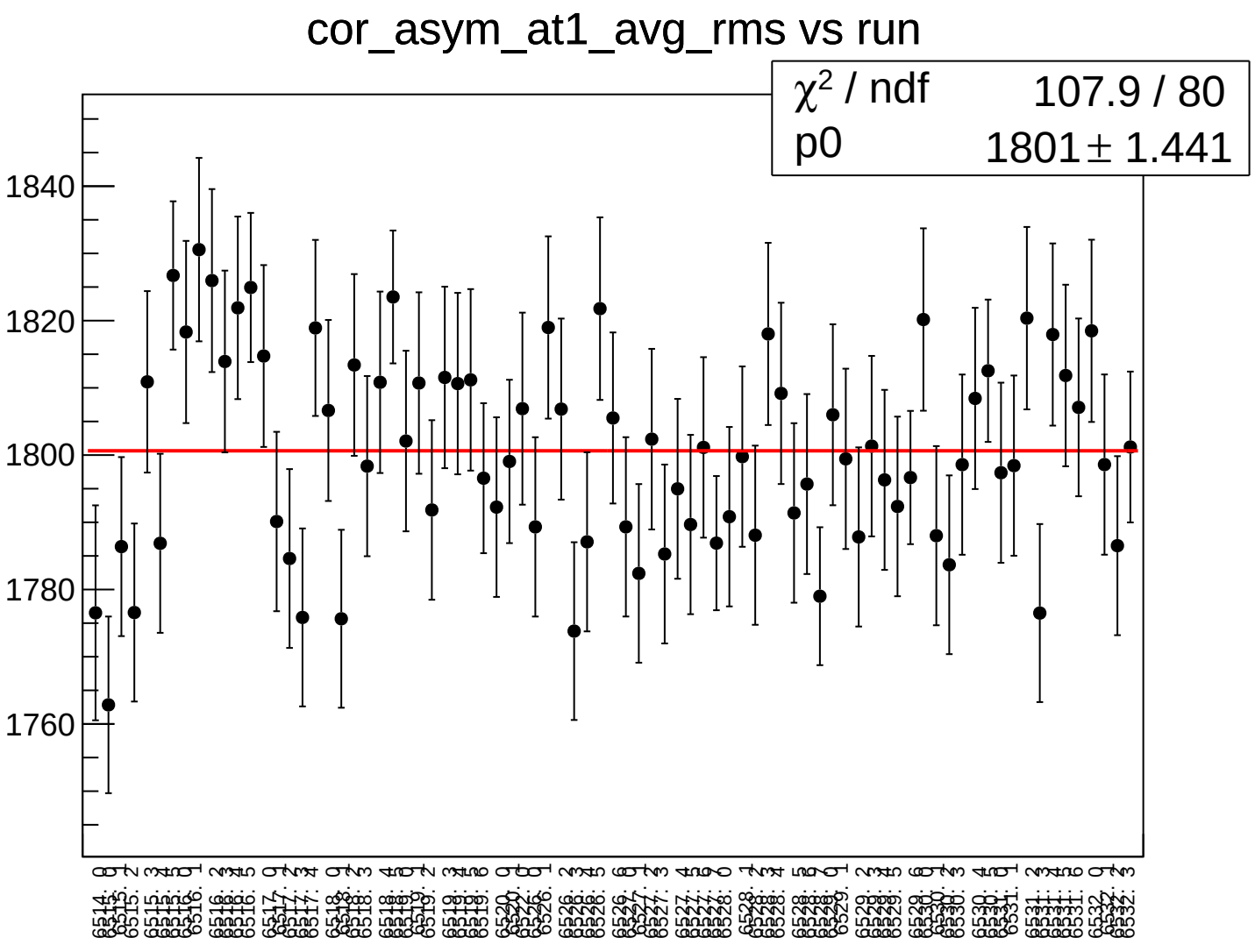

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 91.27 / 80
p0 1154 ± 1049
pull
Entries 81
Mean −46.05
Std Dev 0

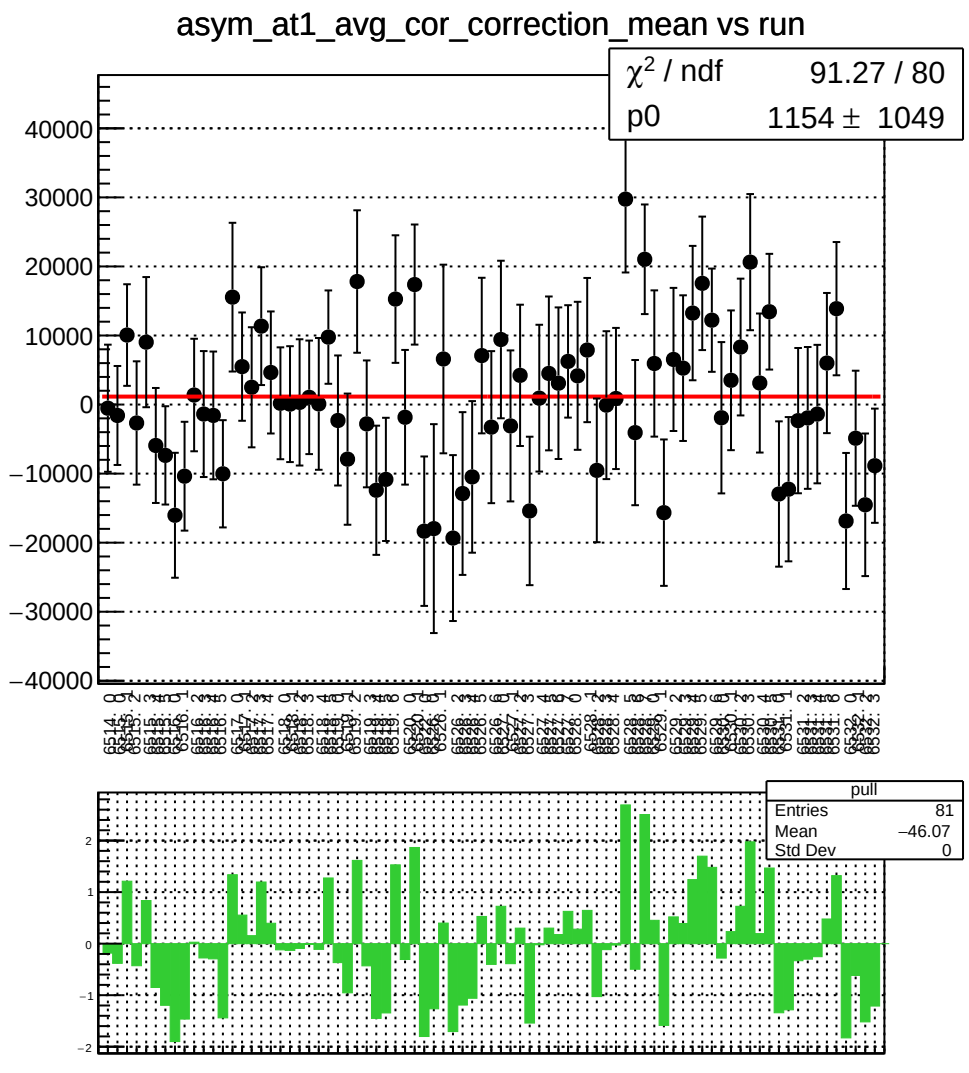

pull1D
Entries 81
Mean −0.02436
Std Dev 1.061

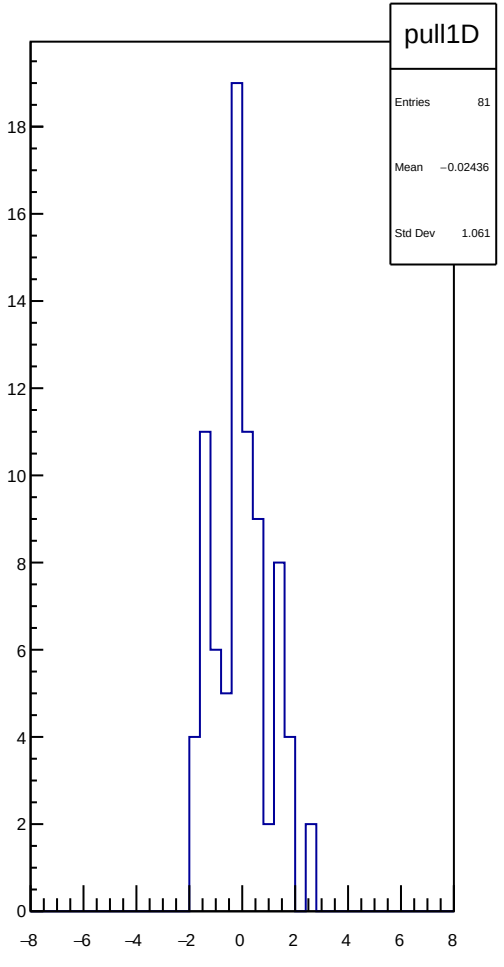

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 2.275e+04 / 80
p0 920 ± 0.7418
1500
1400
1300
1200
1100
1000
900
800
700
600

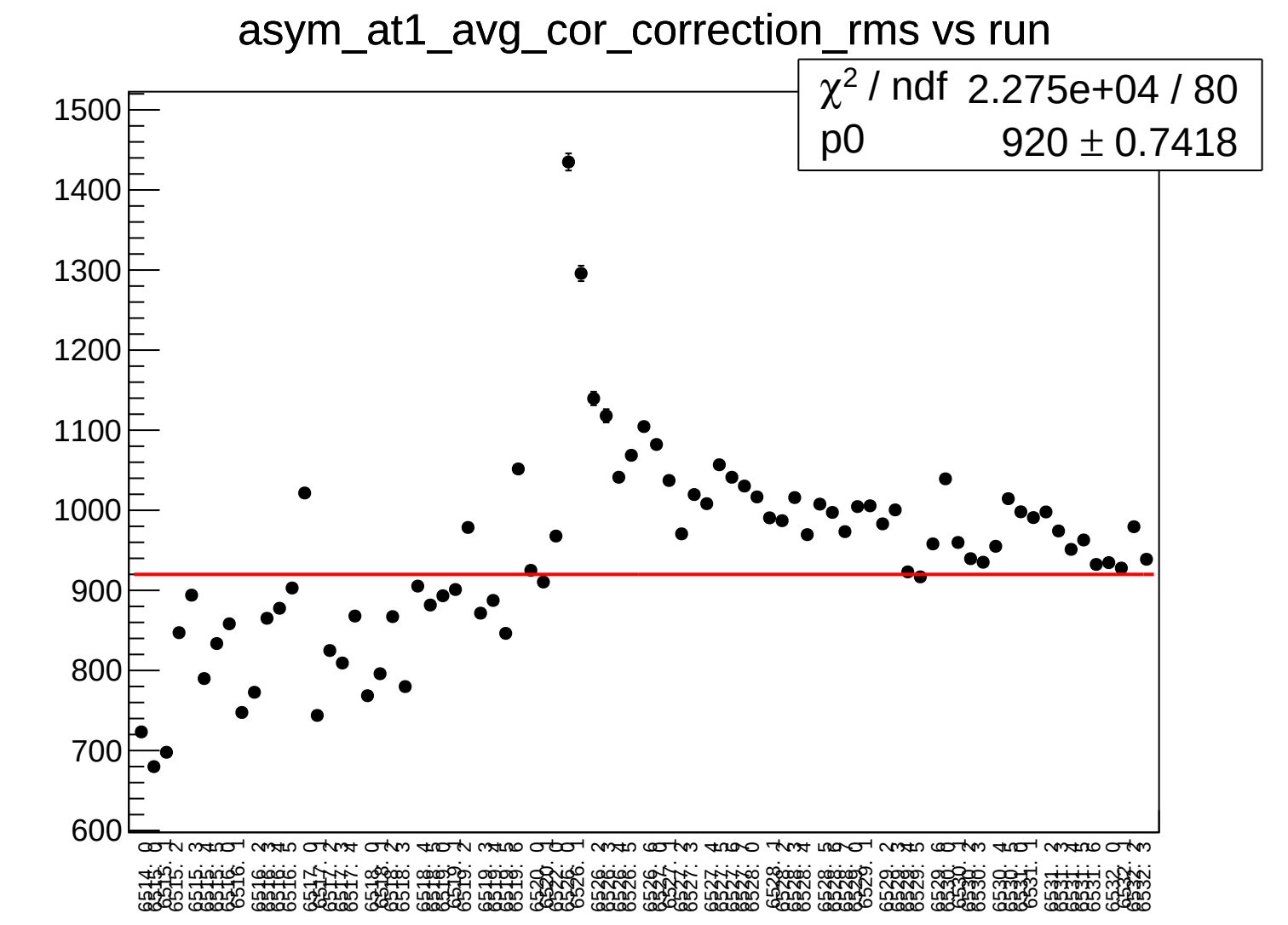

cor_asym_at1_avg_mean vs run
χ² / ndf 61.76 / 80
p0 3933 ± 2038
pull
Entries 81
Mean −17.31
Std Dev 0

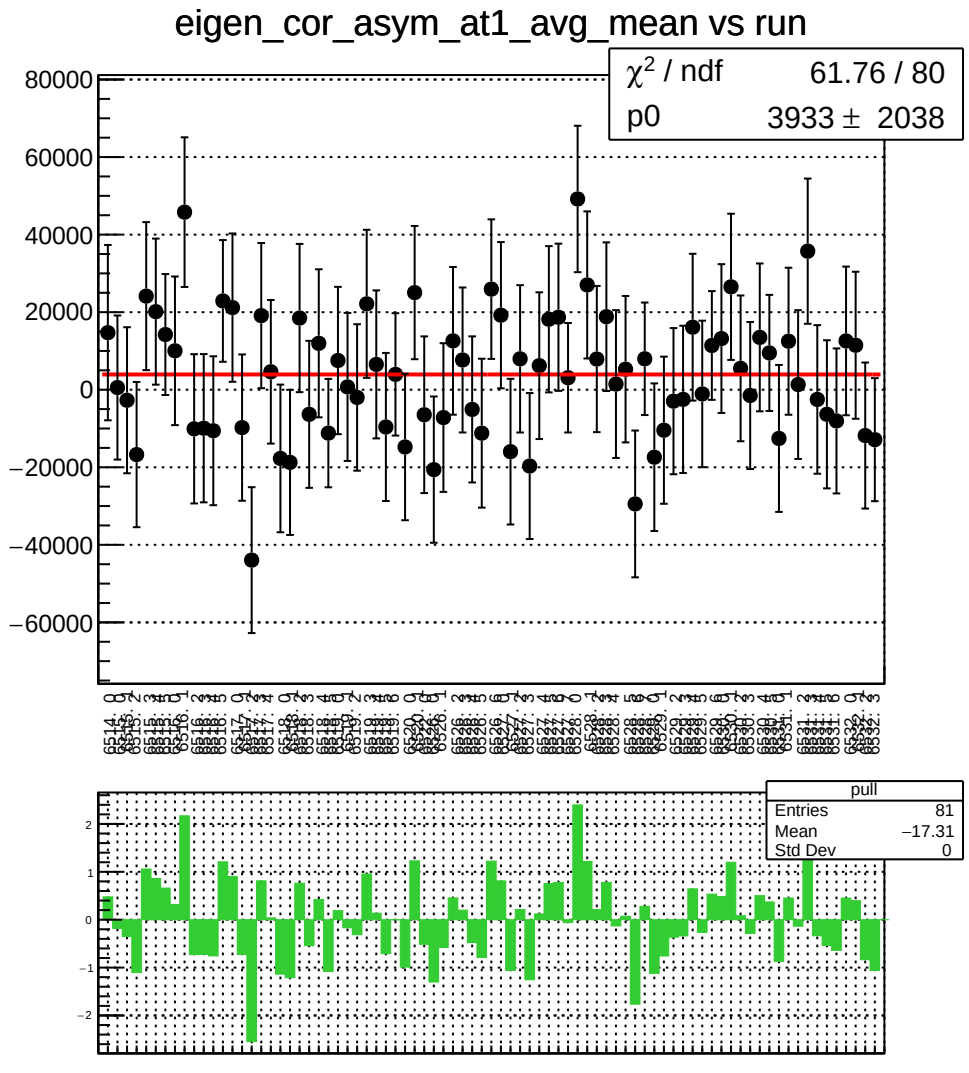

pull1D
Entries 81
Mean −0.002807
Std Dev 0.8732

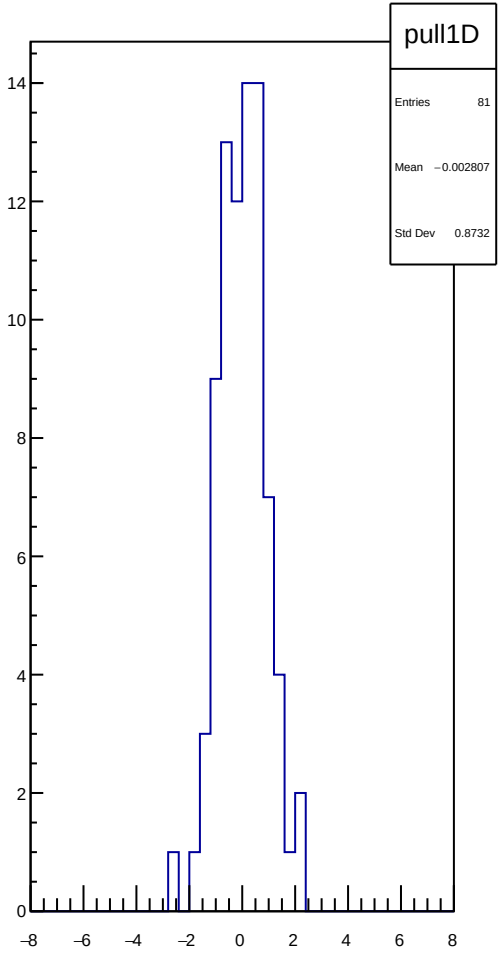

cor_asym_at1_avg_rms vs run
χ² / ndf 107.9 / 80
p0 1801 ± 1.441
1840
1820
1800
1780
1760

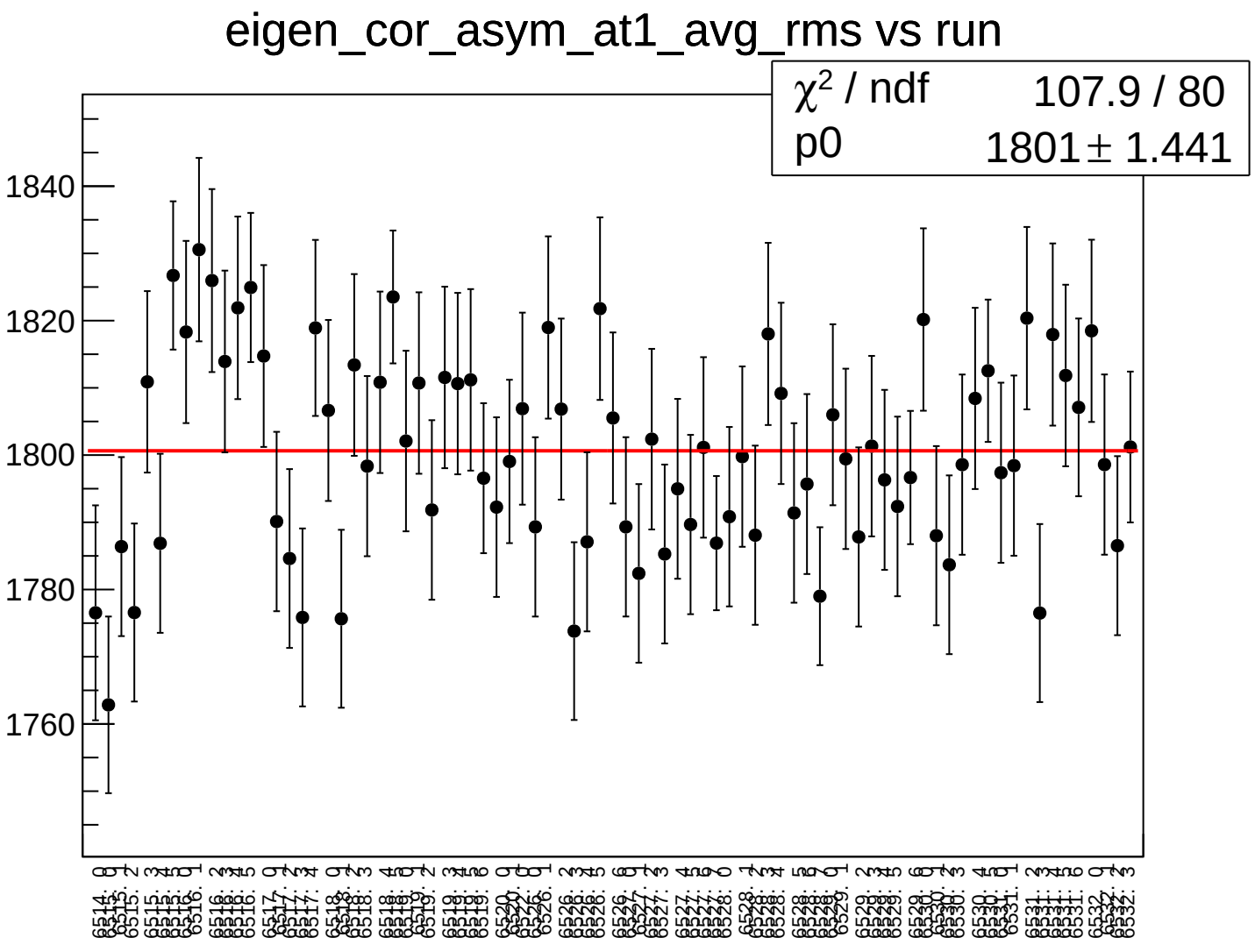

asym_at1_avg_cor_correction_mean vs run
χ² / ndf 91.27 / 80
p0 1154 ± 1049
pull
Entries 81
Mean −46.07
Std Dev 0

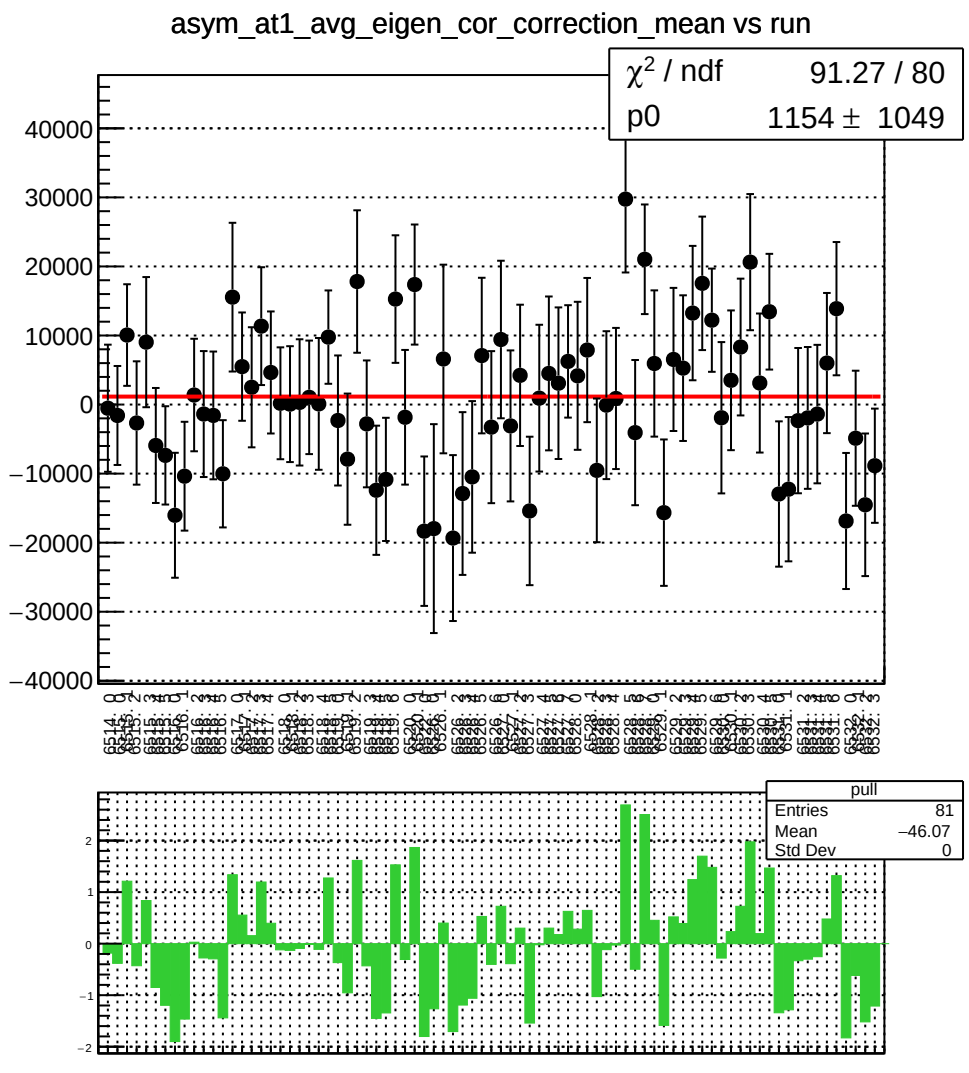

pull1D
Entries 81
Mean −0.02436
Std Dev 1.061

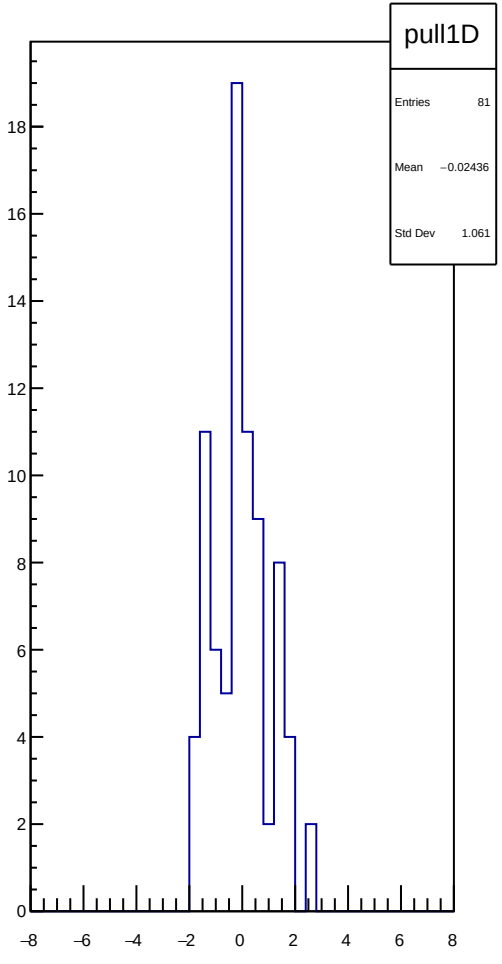

asym_at1_avg_cor_correction_rms vs run
χ² / ndf 2.275e+04 / 80
p0 920 ± 0.7418
1500
1400
1300
1200
1100
1000
900
800
700
600

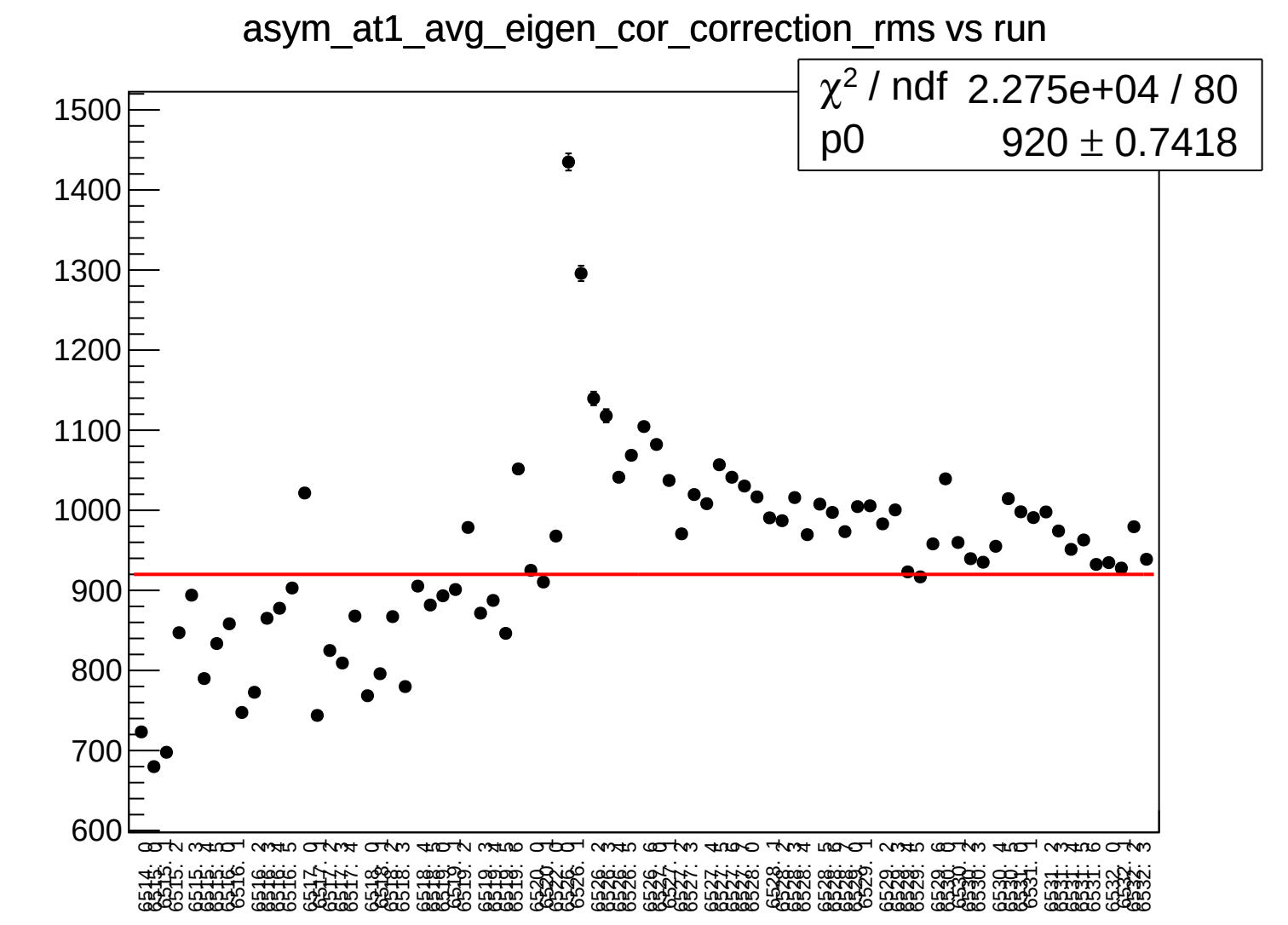

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 61.76 / 80
p0 3933 ± 2038
pull
Entries 81
Mean −17.31
Std Dev 0

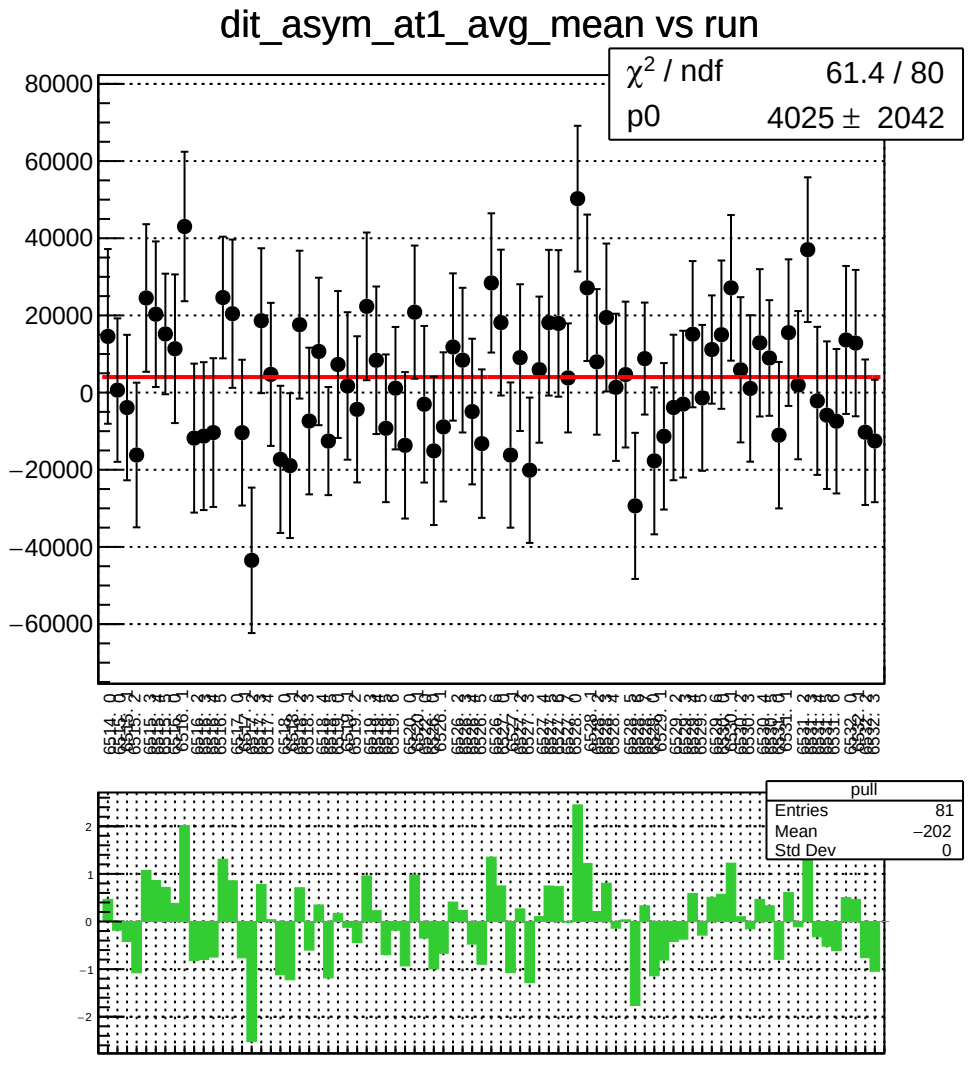

pull1D
Entries 81
Mean −0.002807
Std Dev 0.8732

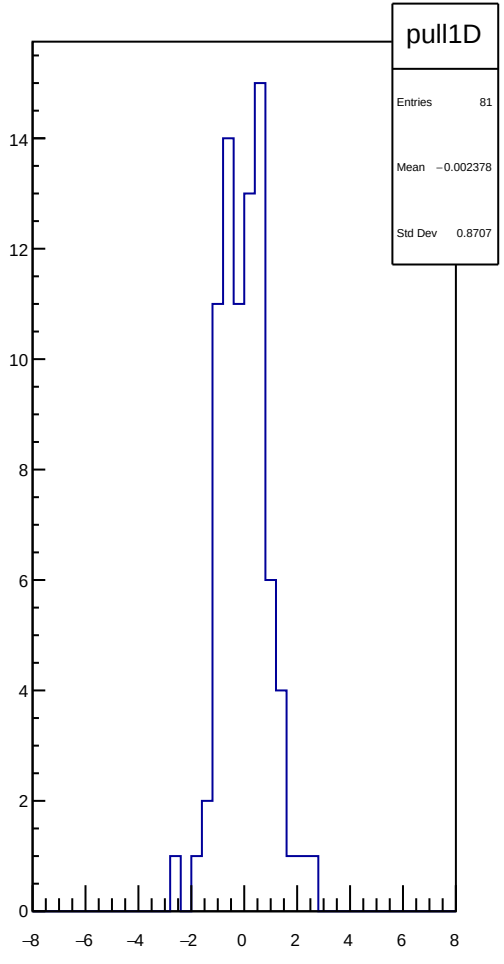

eigen_cor_asym_at1_avg_rms vs run
χ² / ndf 107.9 / 80
p0 1801 ± 1.441
1840
1820
1800
1780
1760

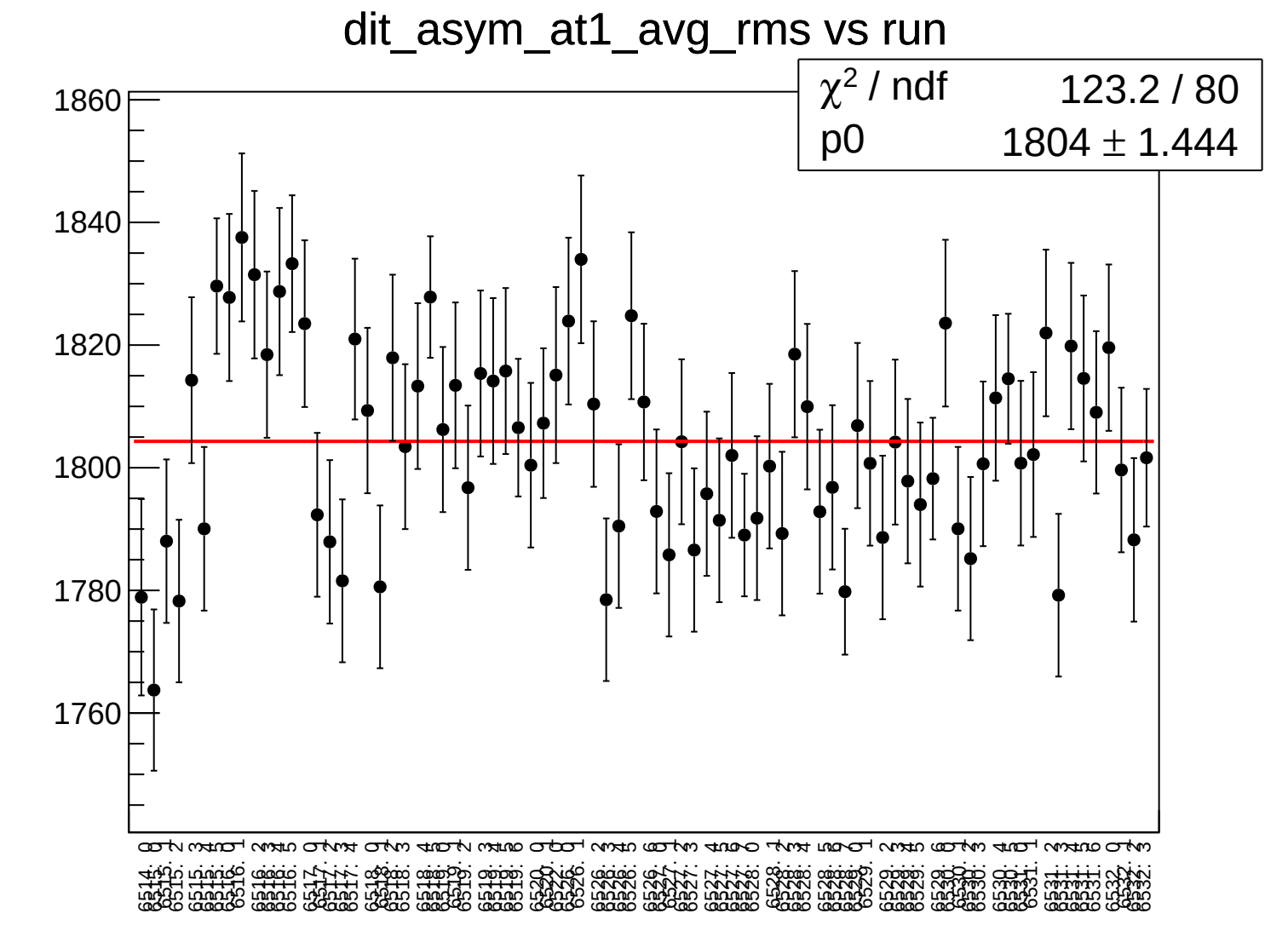

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 91.27 / 80
p0 1154 ± 1049
pull
Entries 81
Mean −46.07
Std Dev 0

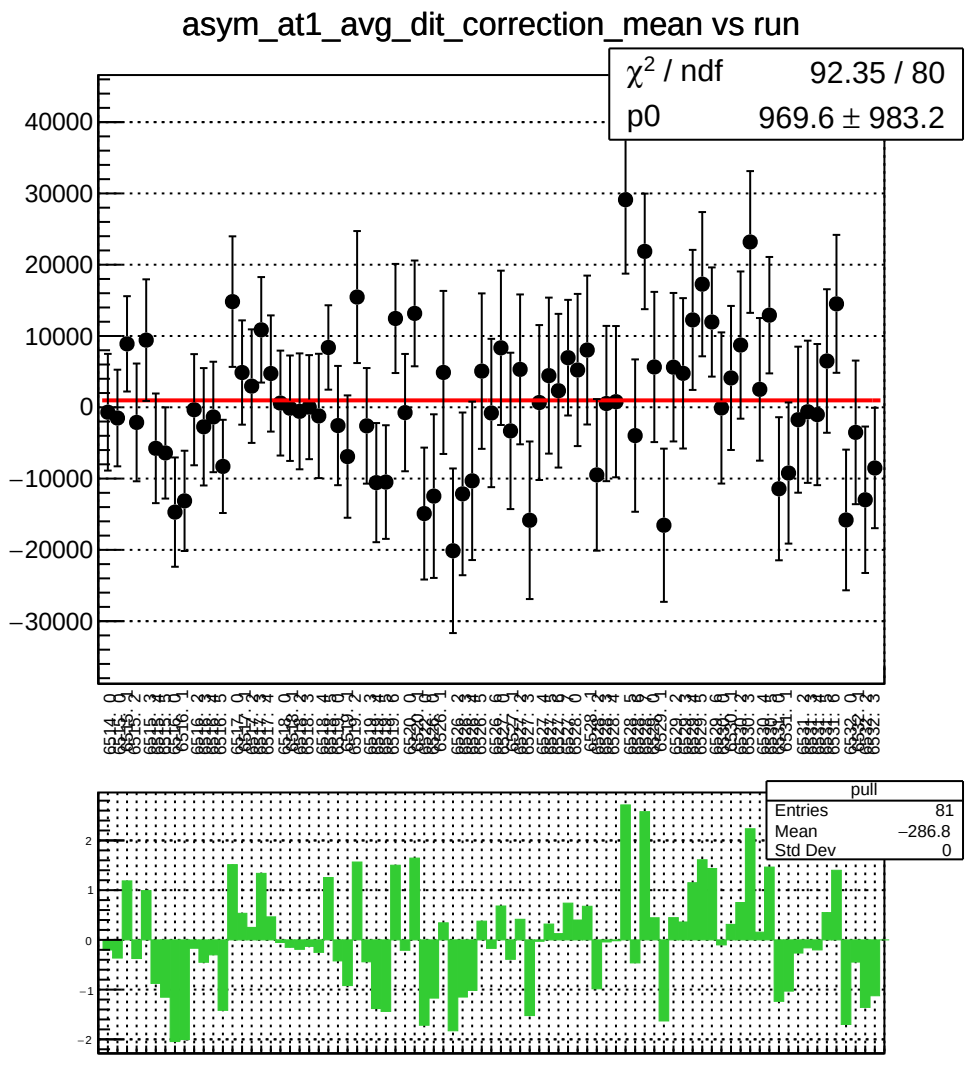

pull1D
Entries 81
Mean −0.02436
Std Dev 1.061

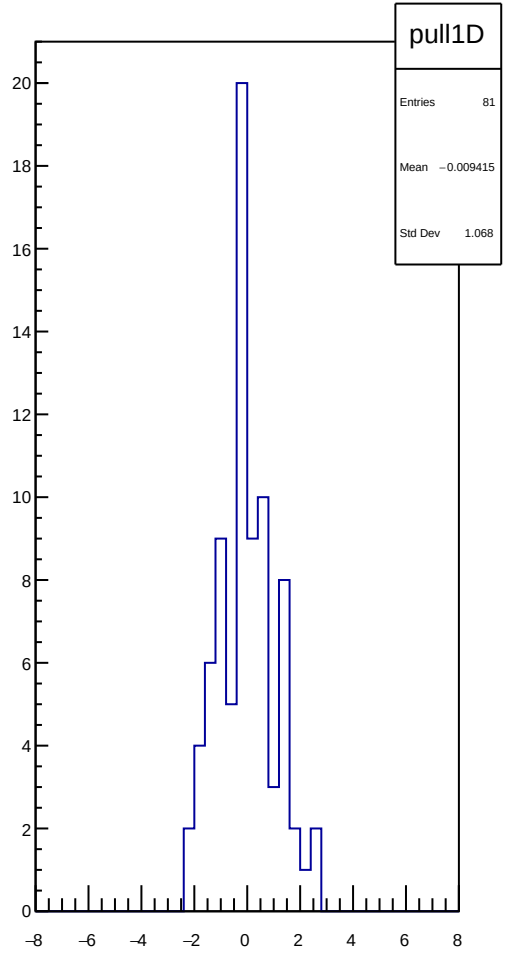

asym_at1_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.275e+04 / 80
p0 920 ± 0.7418
1500
1400
1300
1200
1100
1000
900
800
700
600

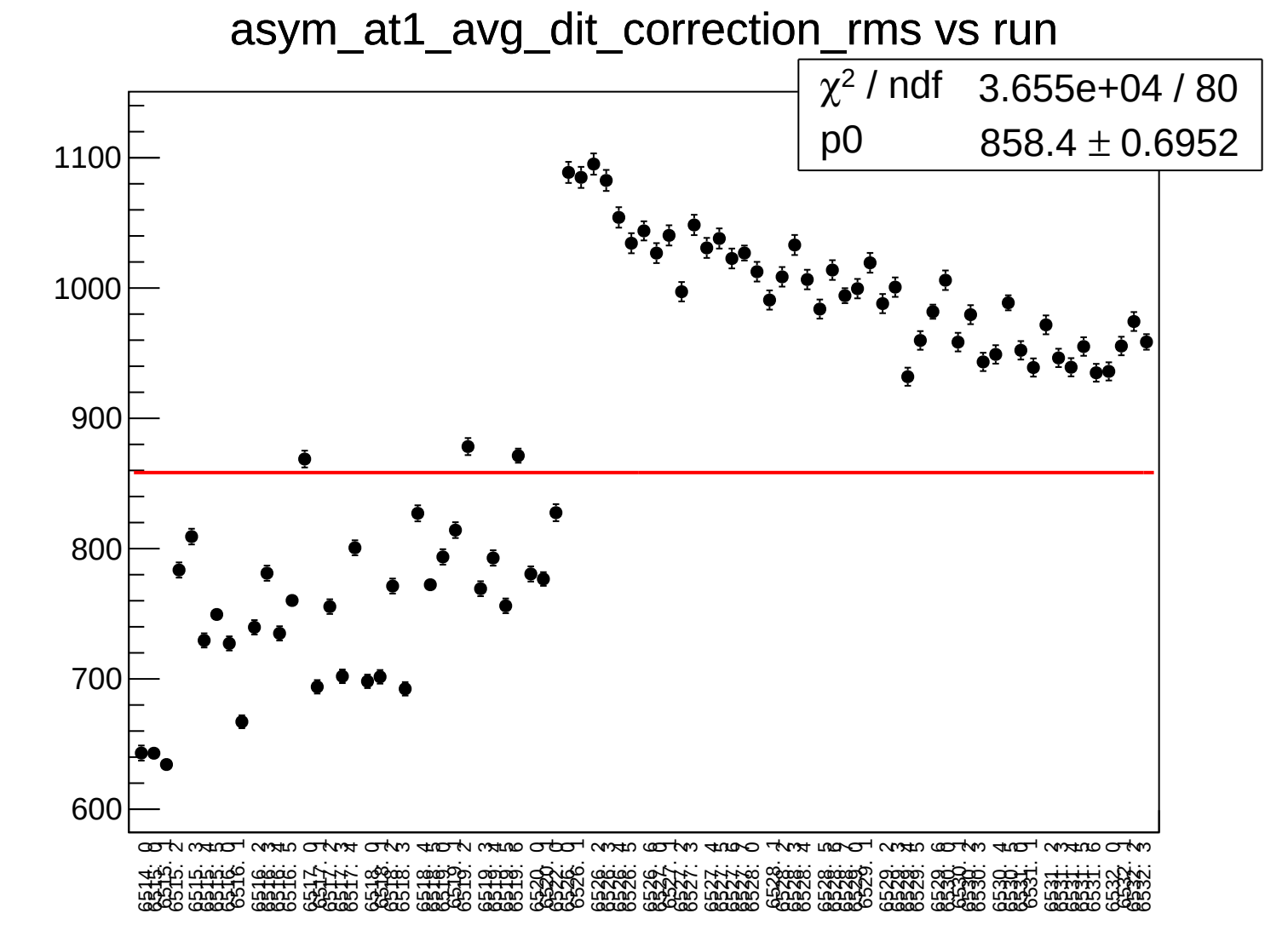

dit_asym_at1_avg_mean vs run
χ² / ndf 61.4 / 80
p0 4025 ± 2042
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −202
Std Dev 0
2
1
0
−1
−2

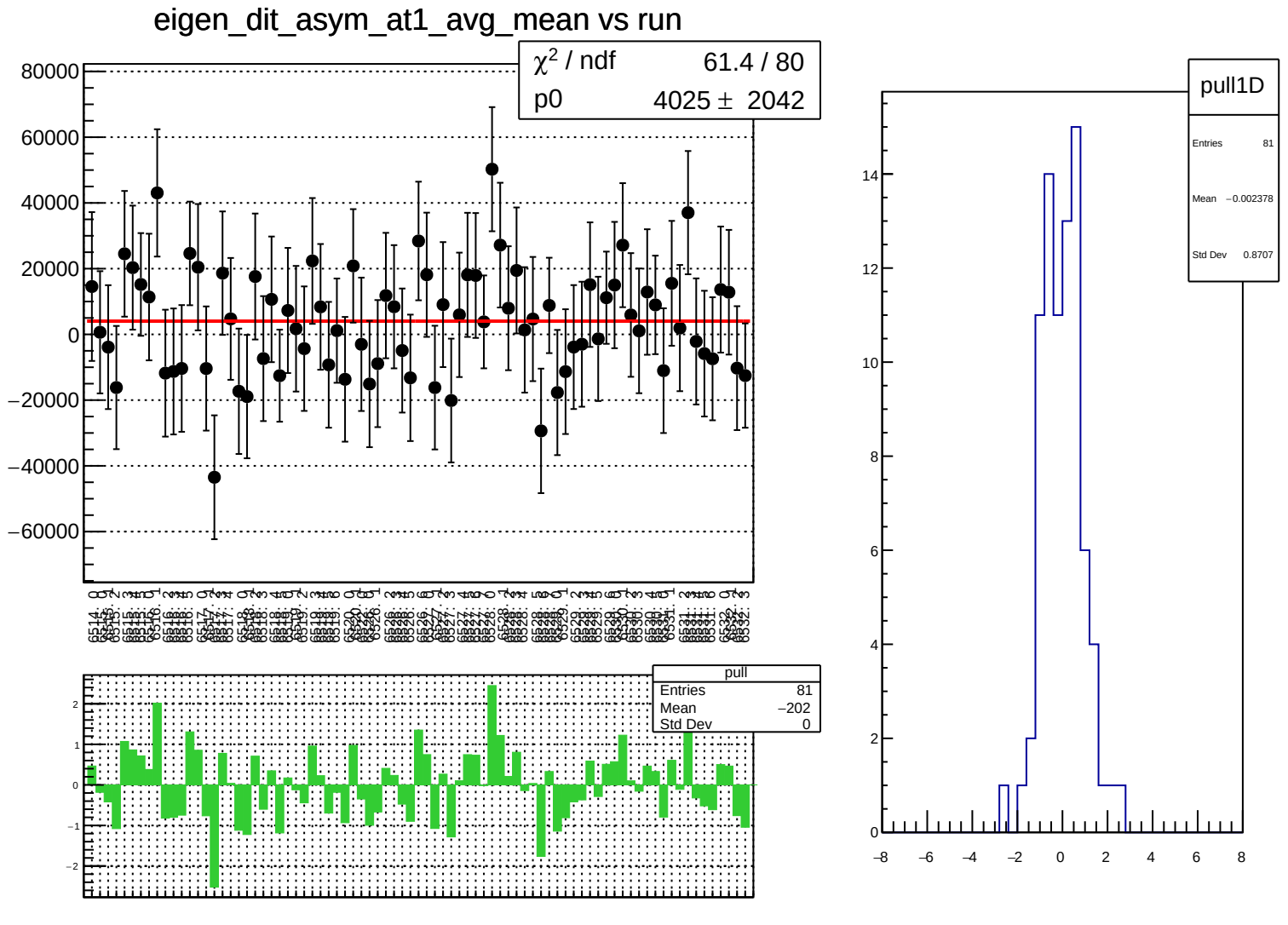

pull1D
Entries 81
Mean −0.002378
Std Dev 0.8707
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

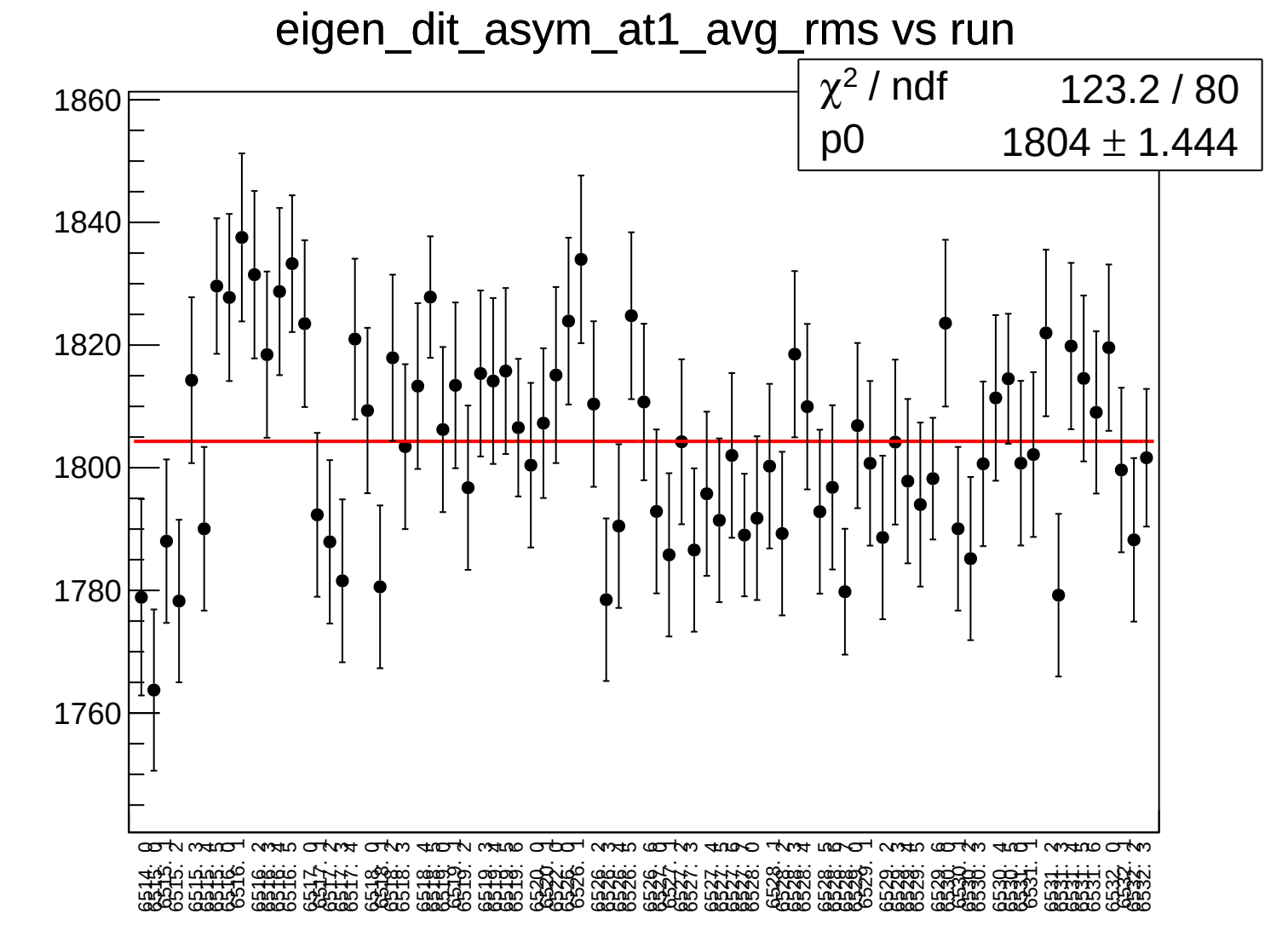

dit_asym_at1_avg_rms vs run
χ² / ndf 123.2 / 80
p0 1804 ± 1.444
1860
1840
1820
1800
1780
1760

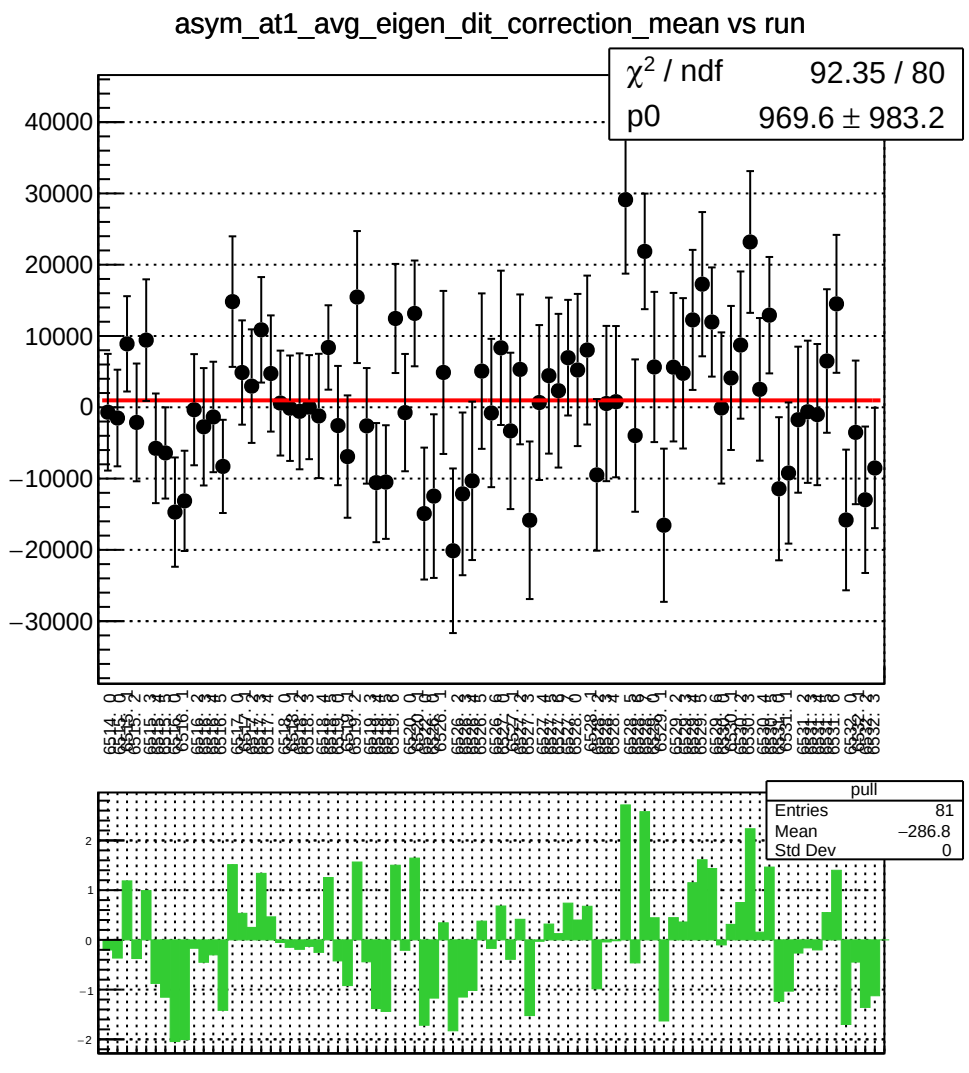

asym_at1_avg_dit_correction_mean vs run
χ^2 / ndf 92.35 / 80
p0 969.6 ± 983.2
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean −286.8
Std Dev 0
2
1
0
−1
−2

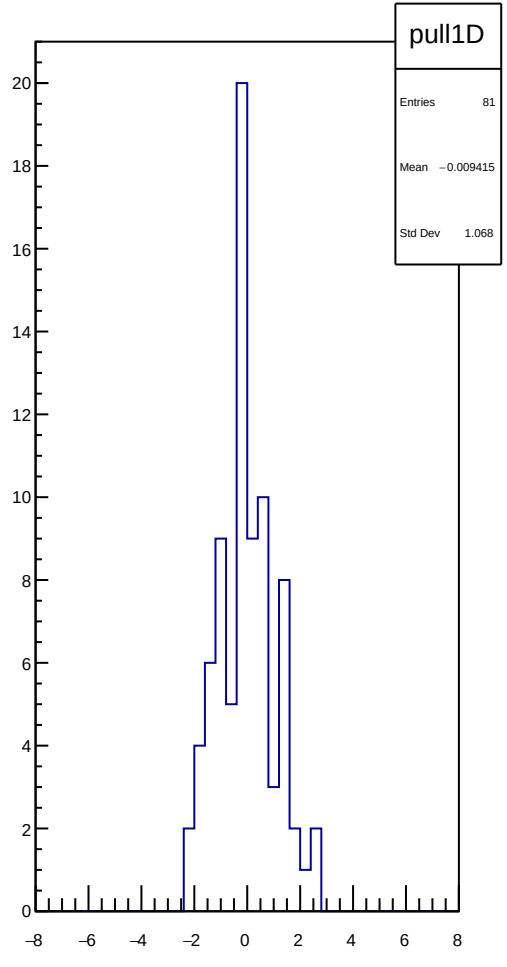

pull1D
Entries 81
Mean −0.009415
Std Dev 1.068
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

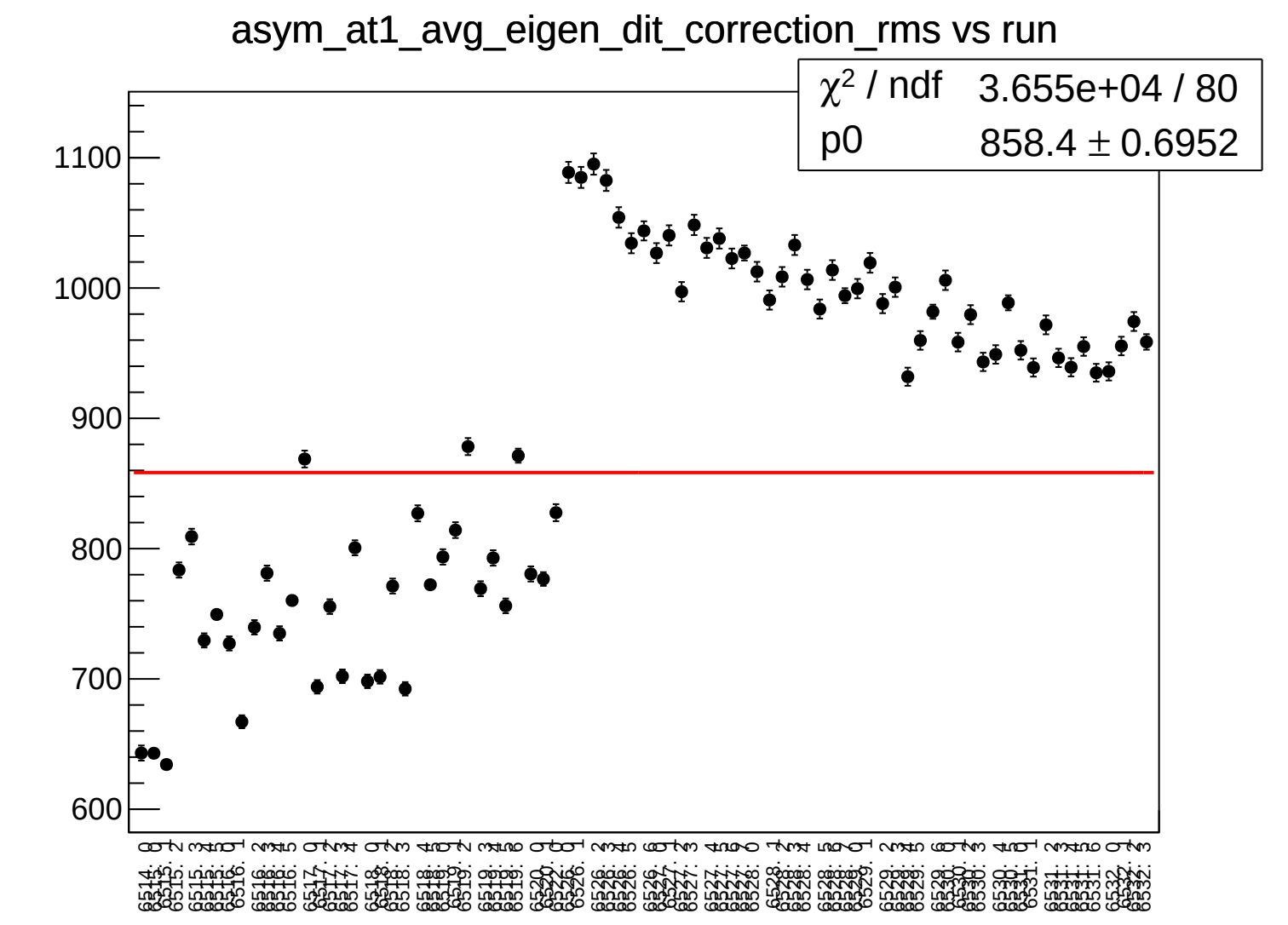

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 3.655e+04 / 80
p0 858.4 ± 0.6952
1100
1000
900
800
700
600

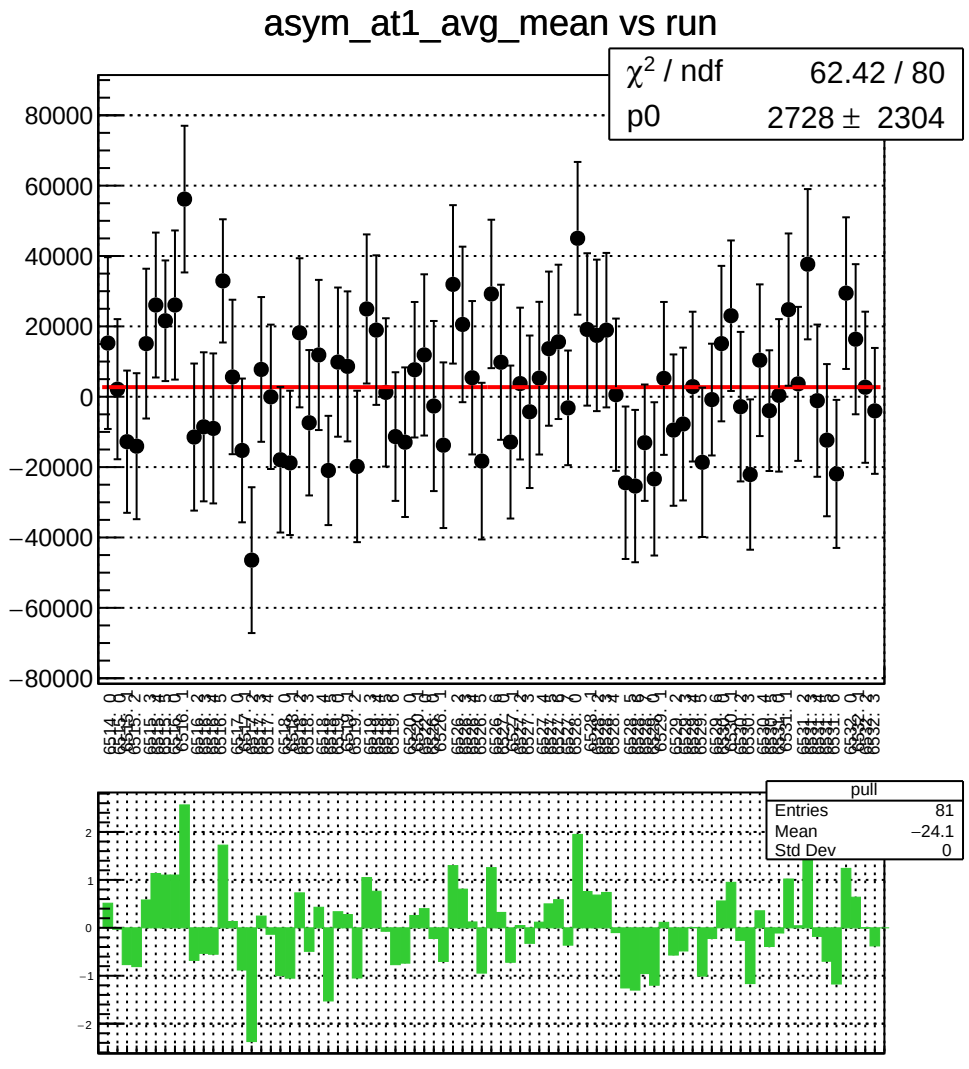

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 61.4 / 80
p0 4025 ± 2042
pull
Entries 81
Mean −202
Std Dev 0
pull1D
Entries 81
Mean −0.002378
Std Dev 0.8707

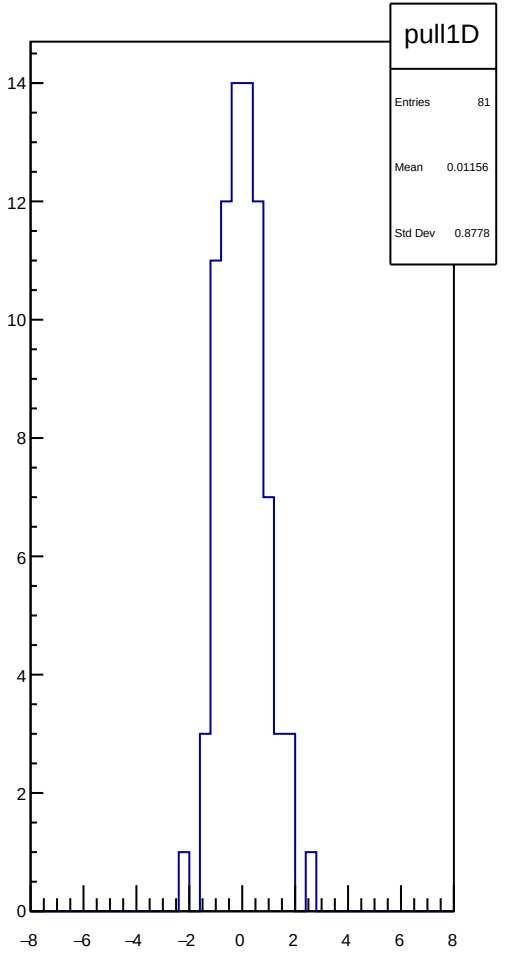

eigen_dit_asym_at1_avg_rms vs run
χ² / ndf 123.2 / 80
p0 1804 ± 1.444
1860
1840
1820
1800
1780
1760

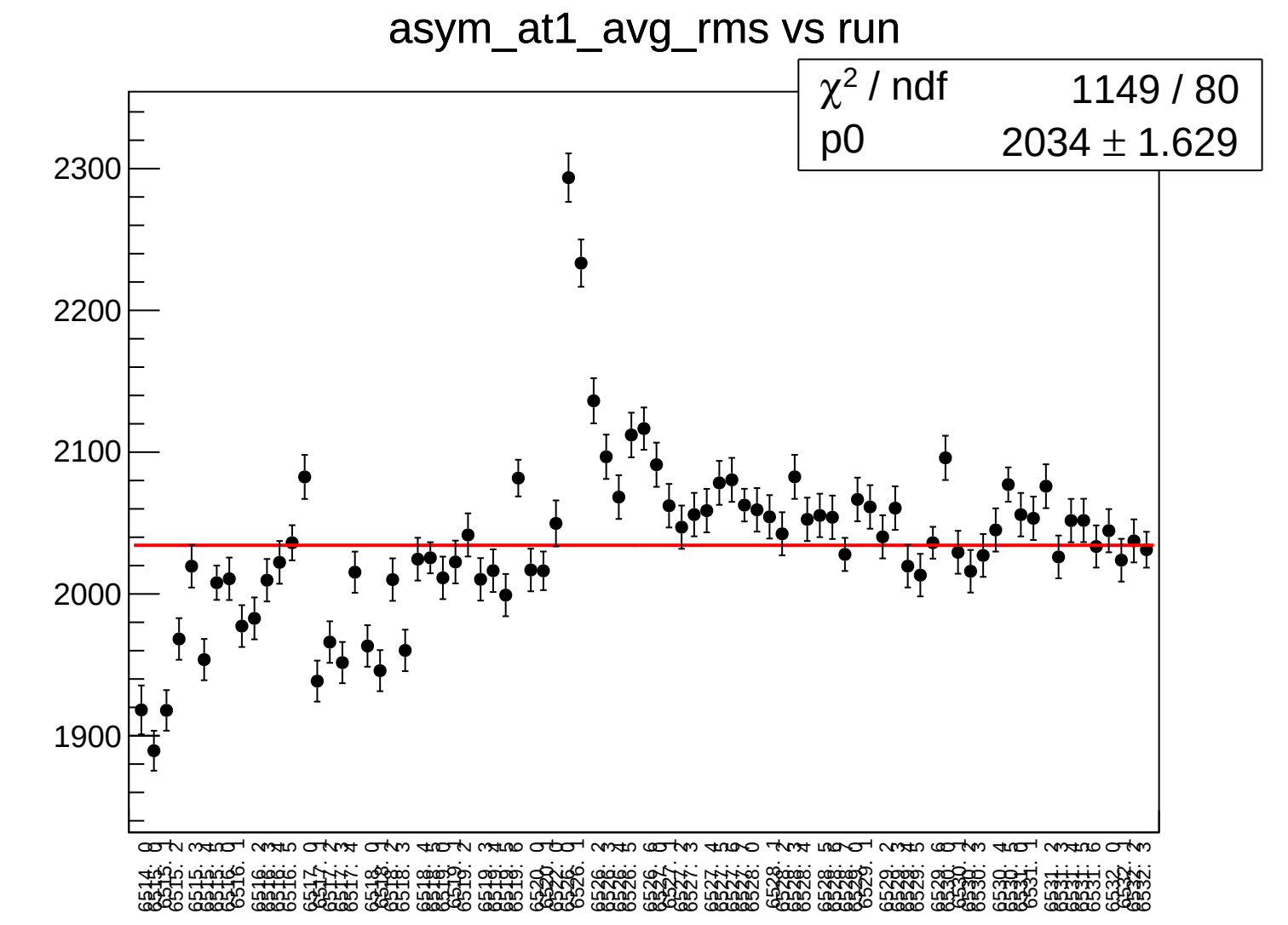

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 92.35 / 80
p0 969.6 ± 983.2
pull
Entries 81
Mean −286.8
Std Dev 0

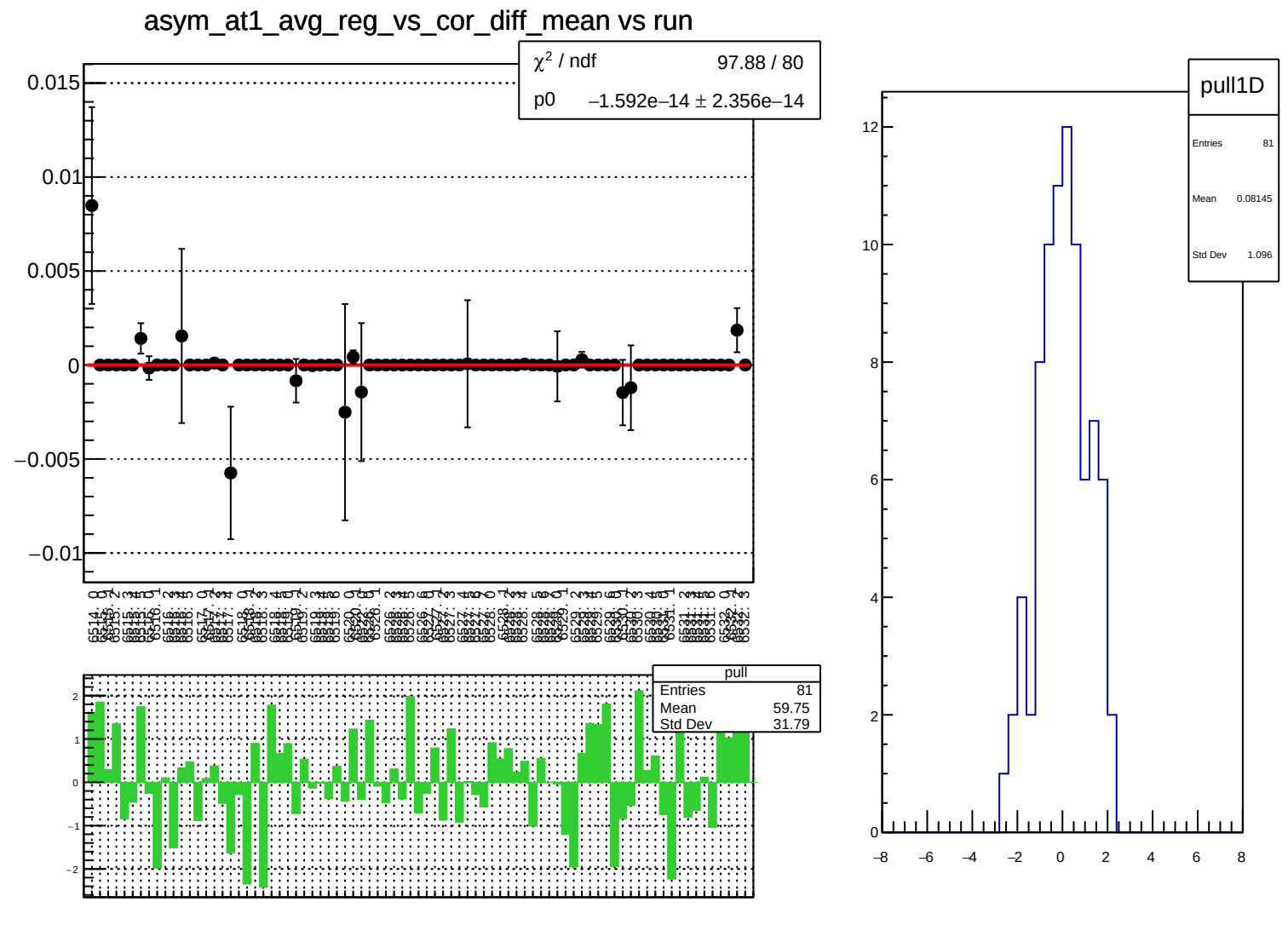

pull1D
Entries 81
Mean −0.009415
Std Dev 1.068

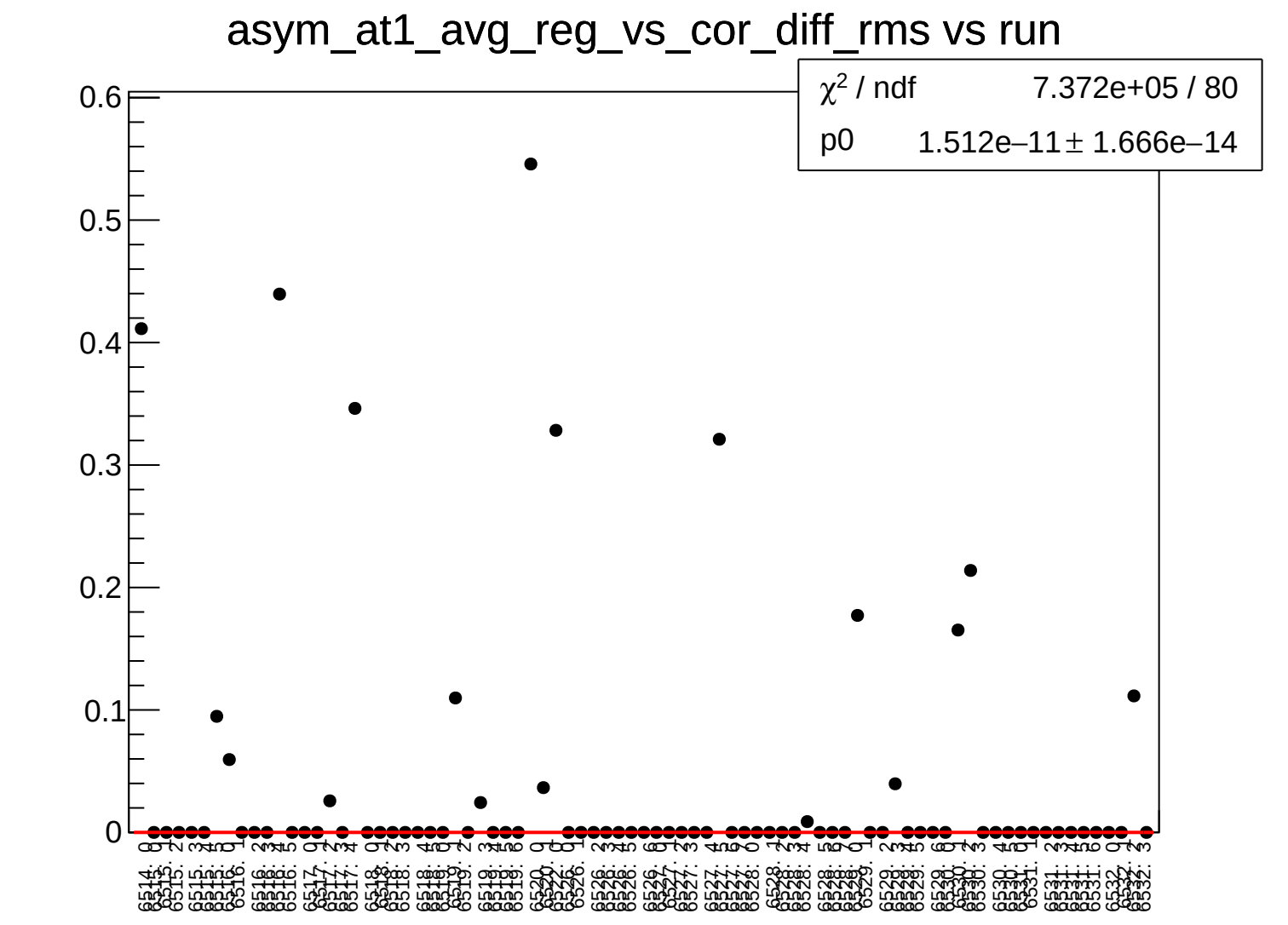

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.655e+04 / 80
p0 858.4 ± 0.6952
1100
1000
900
800
700
600

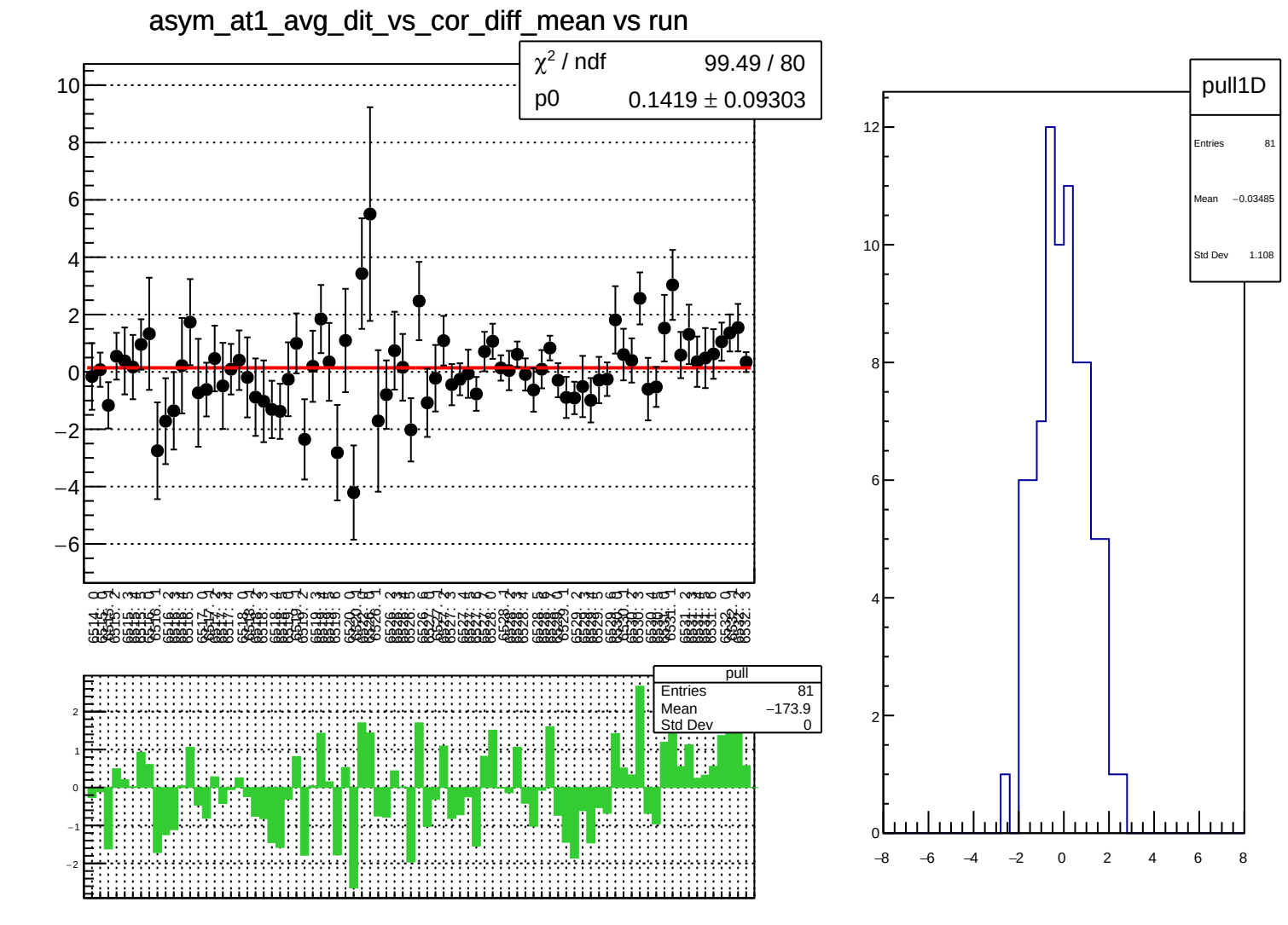

asym_at1_avg_mean vs run
χ² / ndf 62.42 / 80
p0 2728 ± 2304
pull
Entries 81
Mean −24.1
Std Dev 0

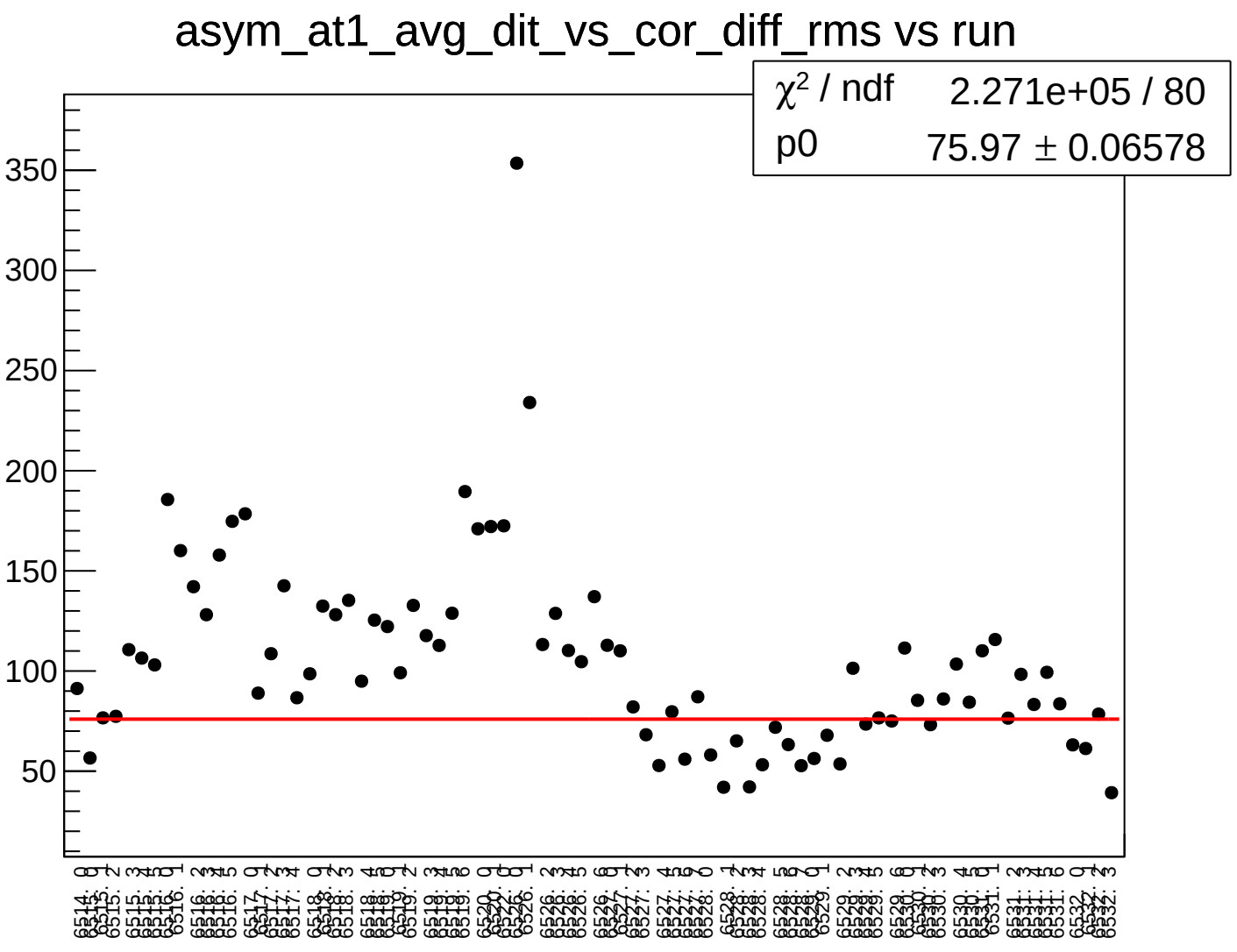

pull1D
Entries 81
Mean 0.01156
Std Dev 0.8778

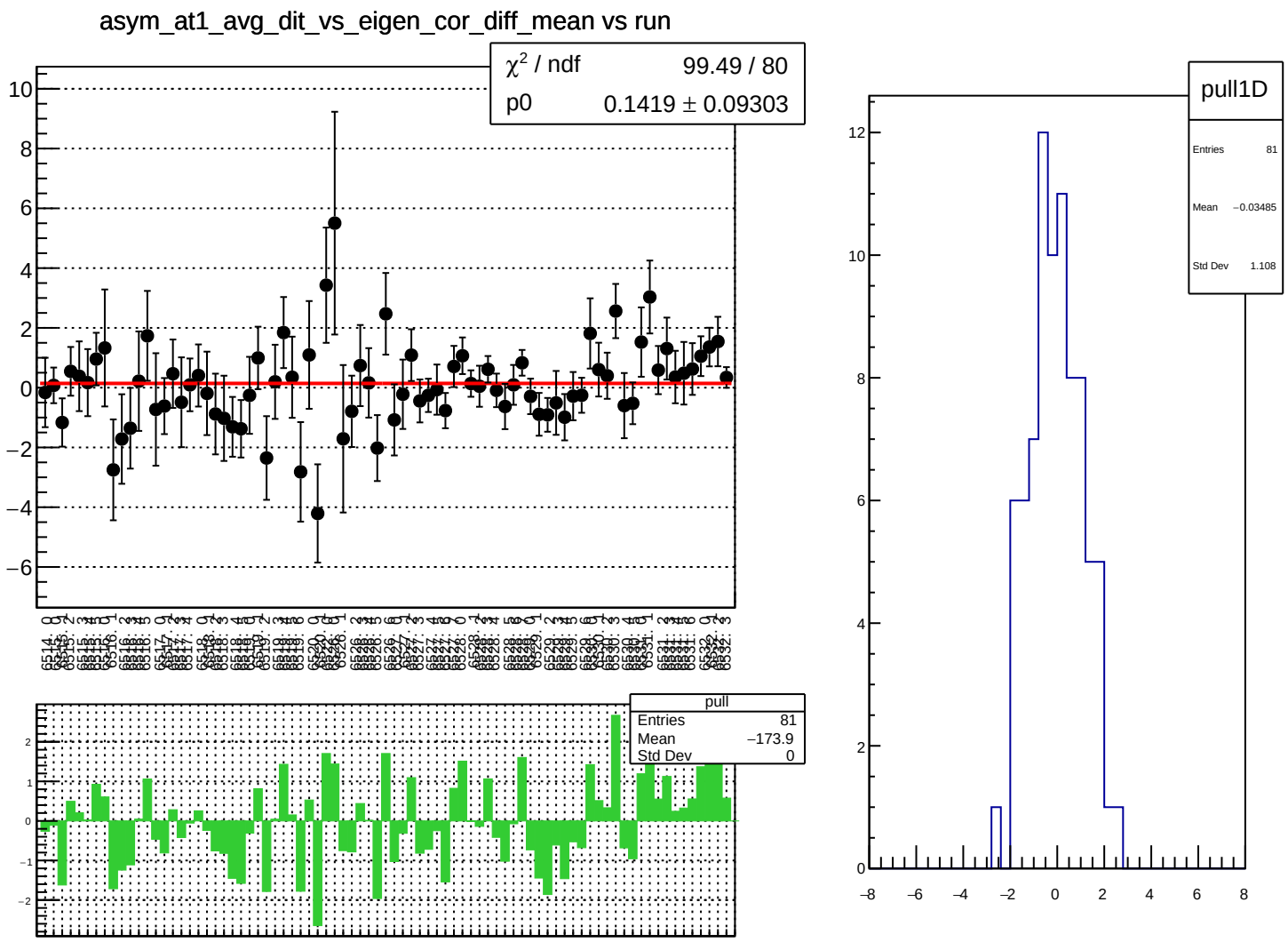

asym_at1_avg_rms vs run
χ² / ndf 1149 / 80
p0 2034 ± 1.629
2300
2200
2100
2000
1900

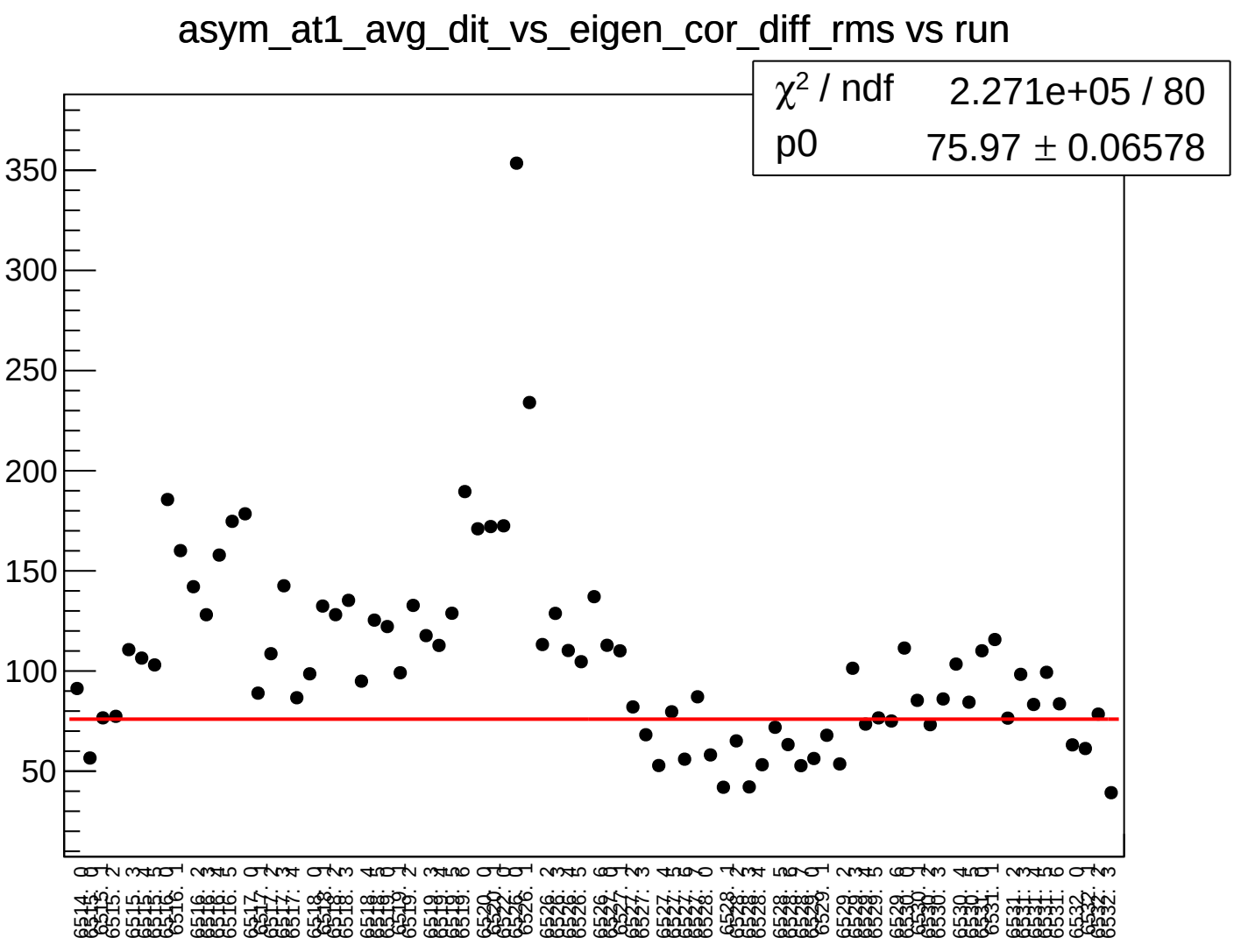

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 97.88 / 80
p0 −1.592e−14 ± 2.356e−14
pull
Entries 81
Mean 59.75
Std Dev 31.79
pull1D
Entries 81
Mean 0.08145
Std Dev 1.096

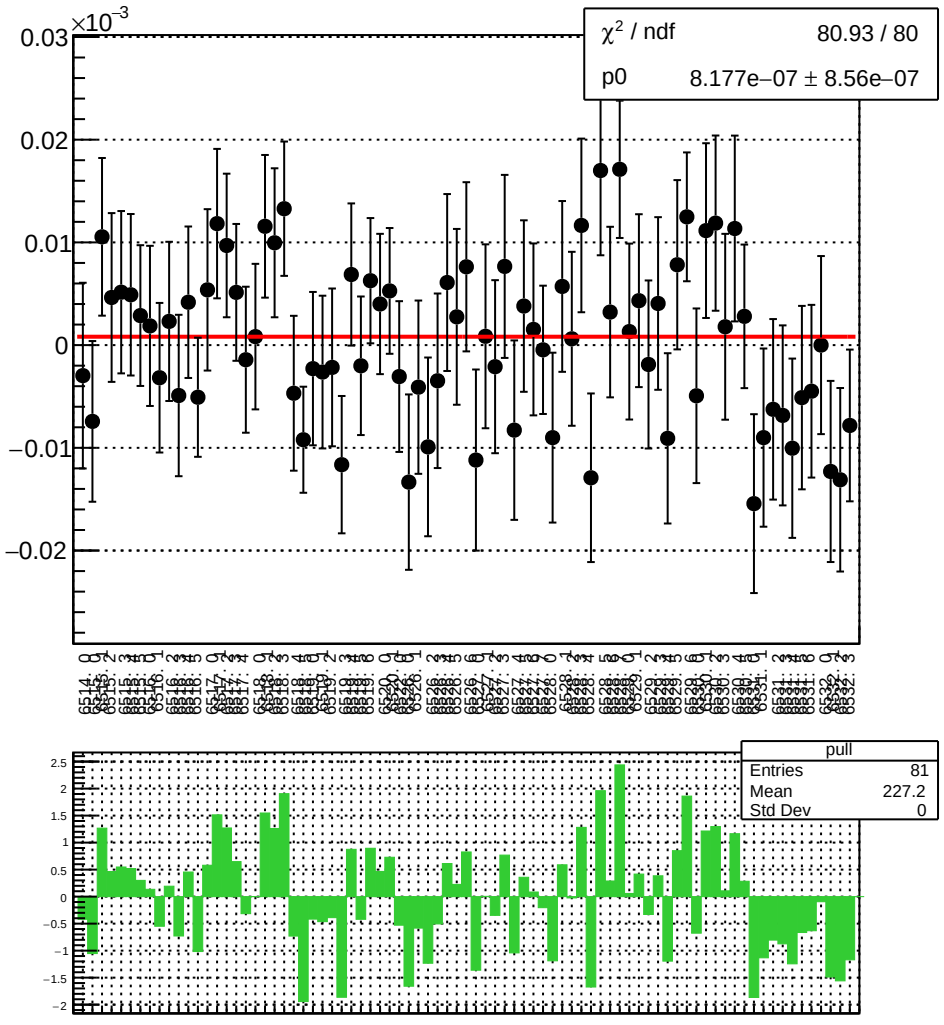

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 7.372e+05 / 80
p0 1.512e−11 ± 1.666e−14
0.6
0.5
0.4
0.3
0.2
0.1
0

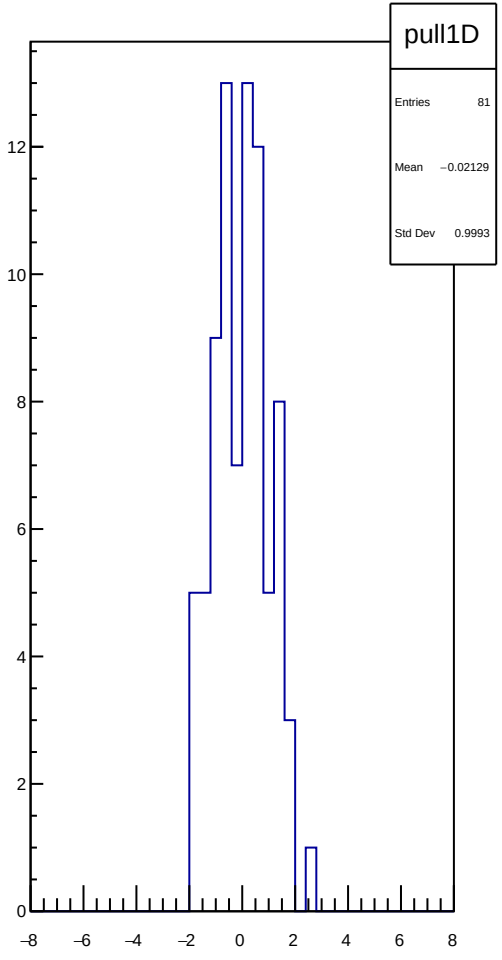

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 99.49 / 80
p0 0.1419 ± 0.09303
pull
Entries 81
Mean −173.9
Std Dev 0
pull1D
Entries 81
Mean −0.03485
Std Dev 1.108

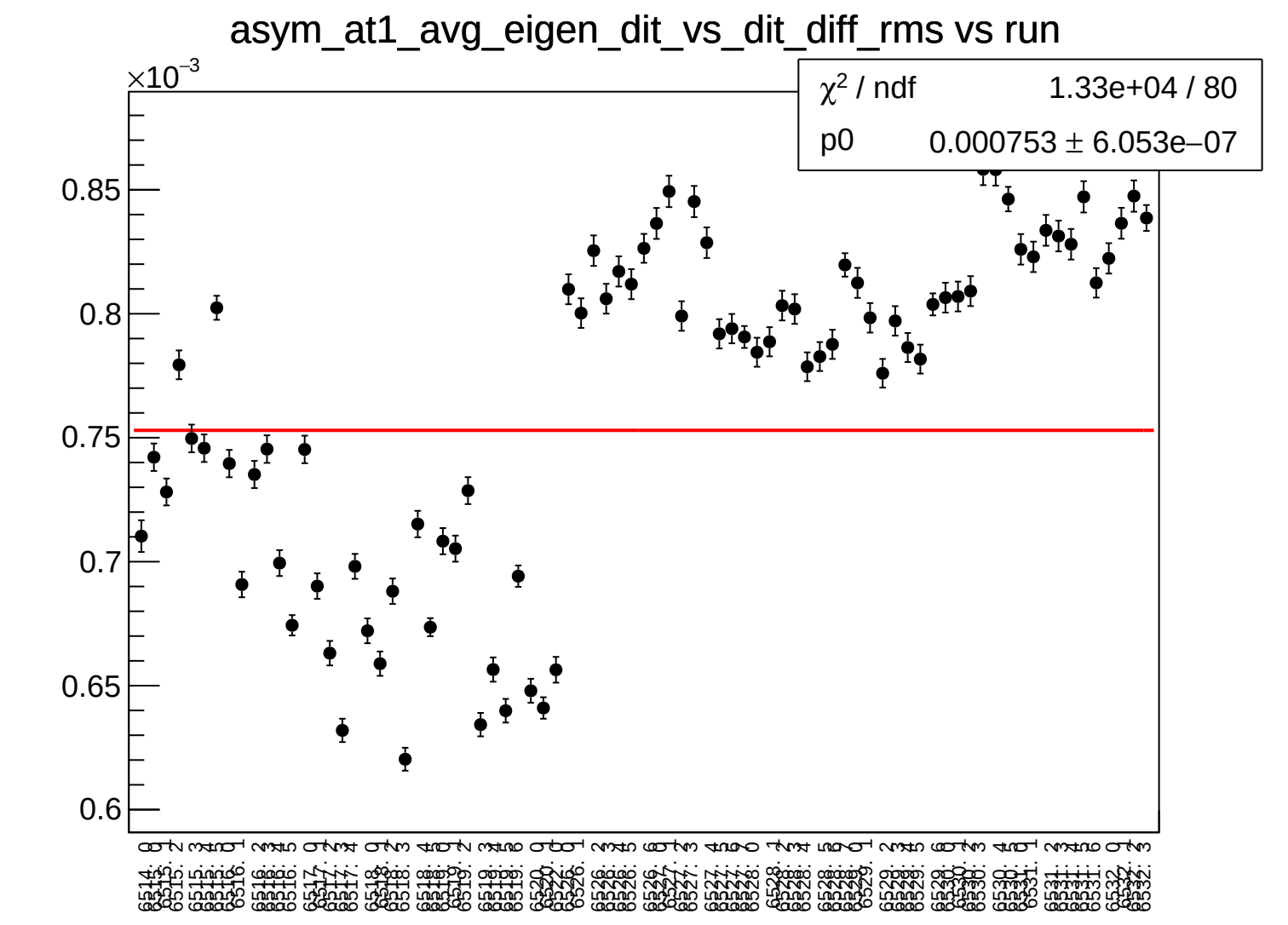

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.271e+05 / 80
p0 75.97 ± 0.06578
350
300
250
200
150
100
50

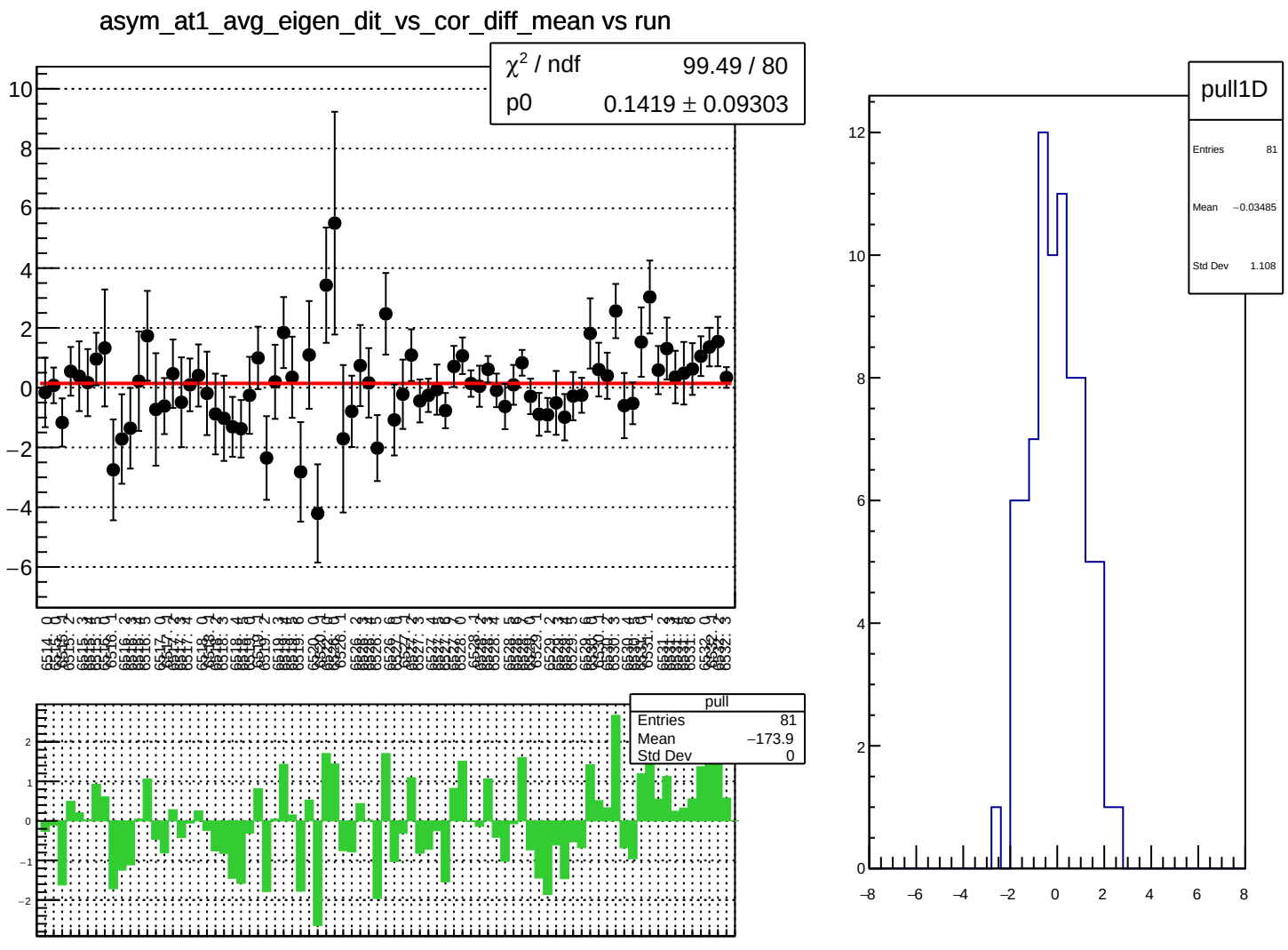

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.49 / 80
p0 0.1419 ± 0.09303
pull
Entries 81
Mean −173.9
Std Dev 0
pull1D
Entries 81
Mean −0.03485
Std Dev 1.108

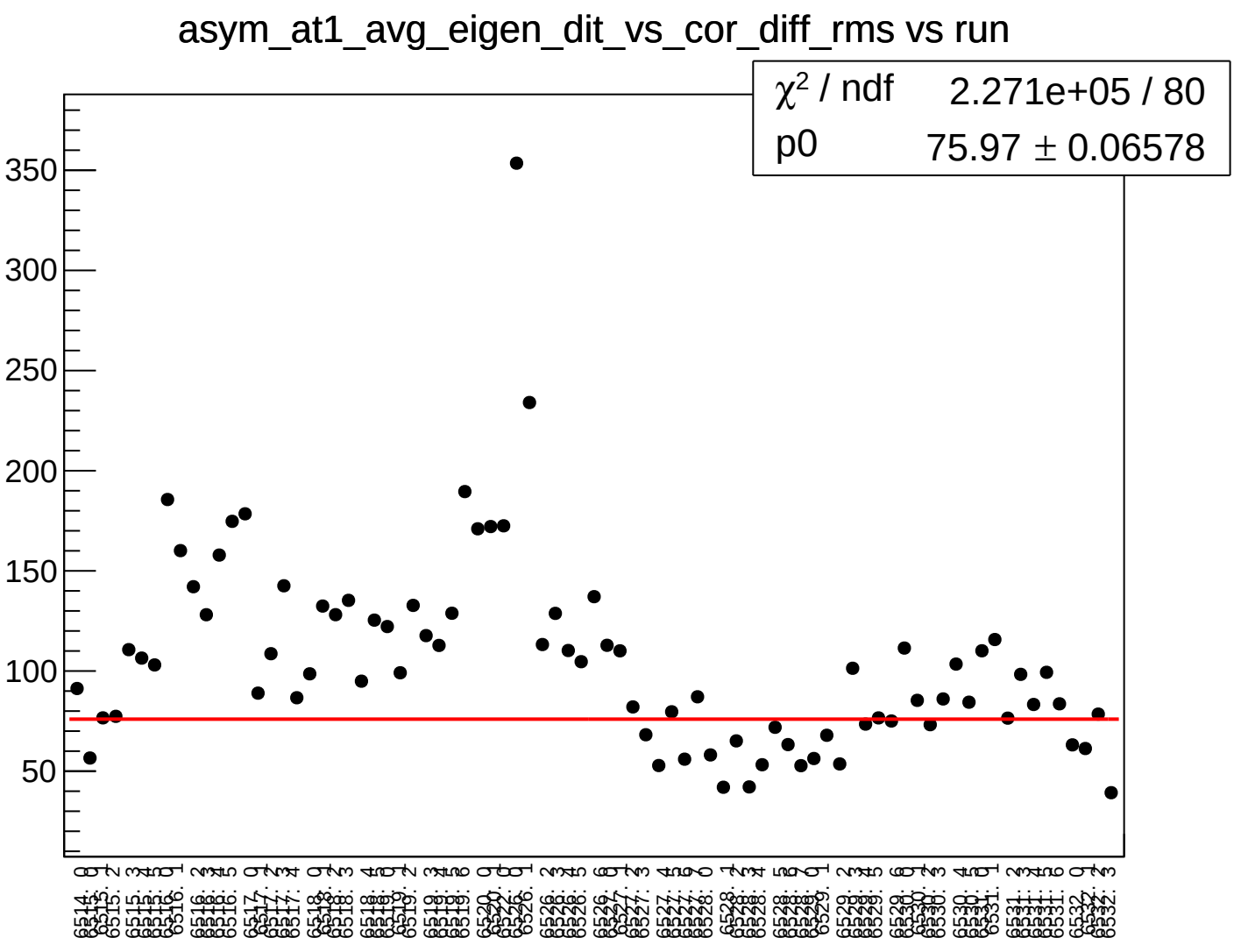

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.271e+05 / 80
p0 75.97 ± 0.06578
350
300
250
200
150
100
50

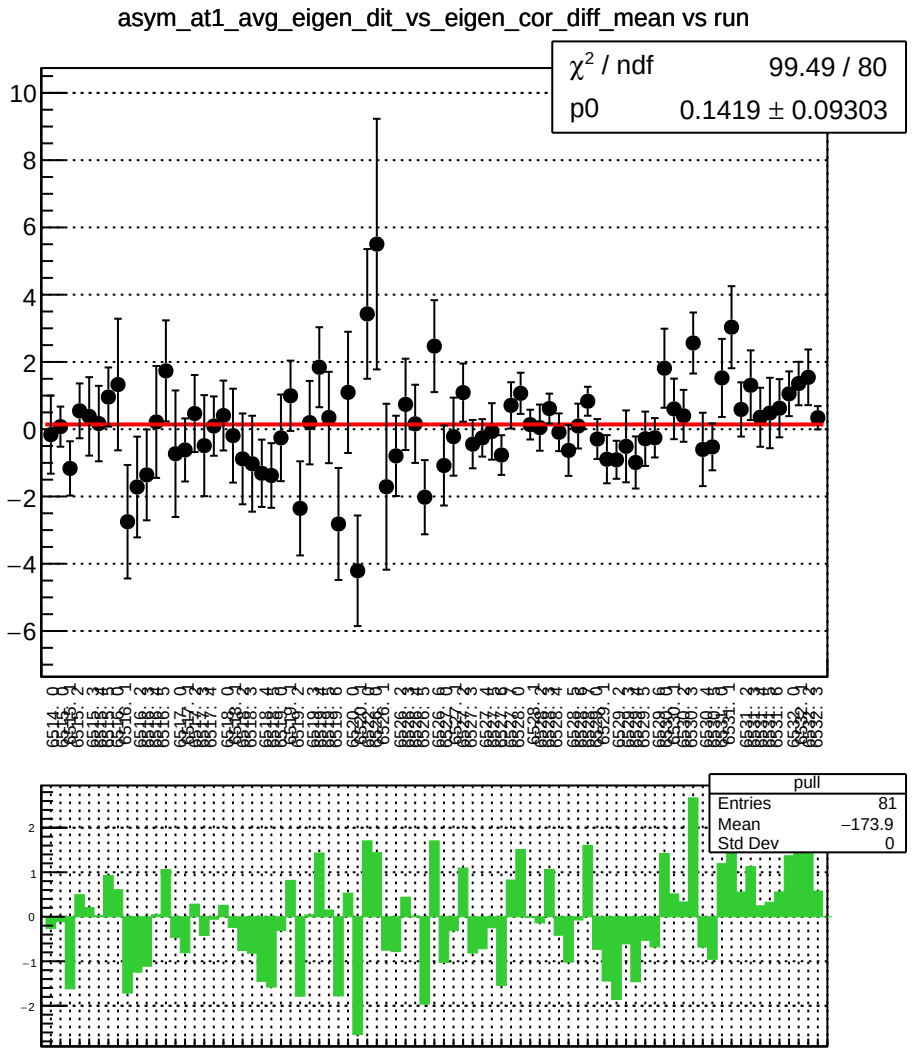

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 80.93 / 80
p0 8.177e−07 ± 8.56e−07
pull
Entries 81
Mean 227.2
Std Dev 0

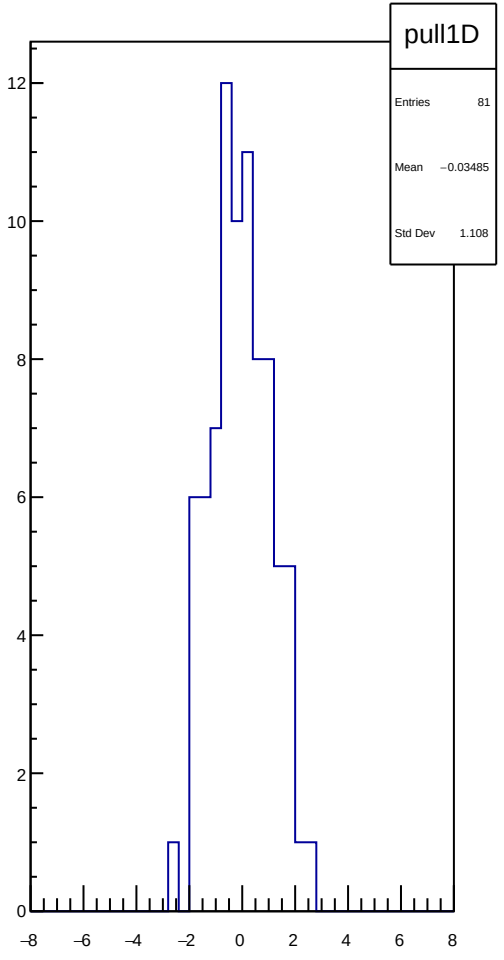

pull1D
Entries 81
Mean −0.02129
Std Dev 0.9993

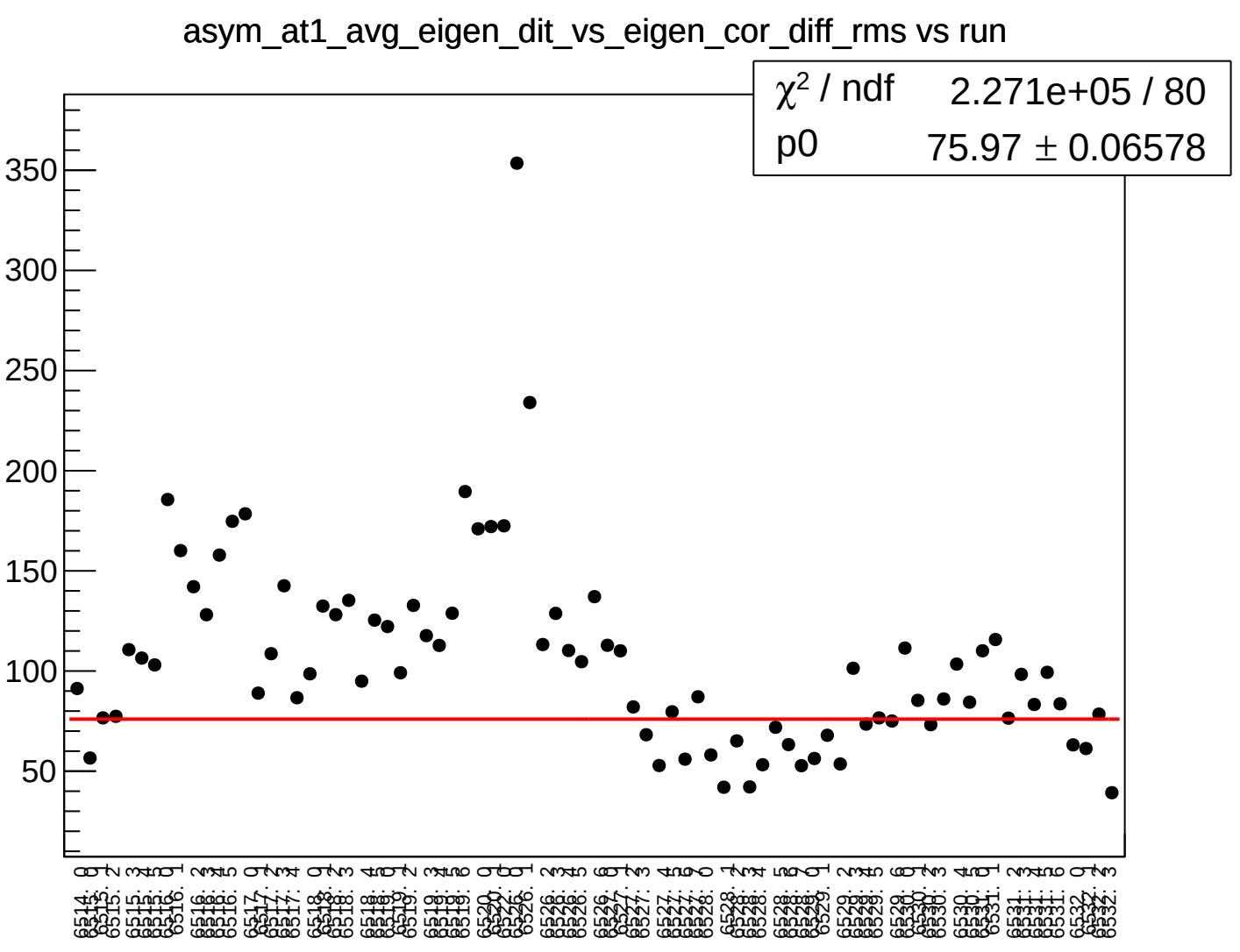

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 1.33e+04 / 80
p0 0.000753 ± 6.053e−07
0.85
0.8
0.75
0.7
0.65
0.6

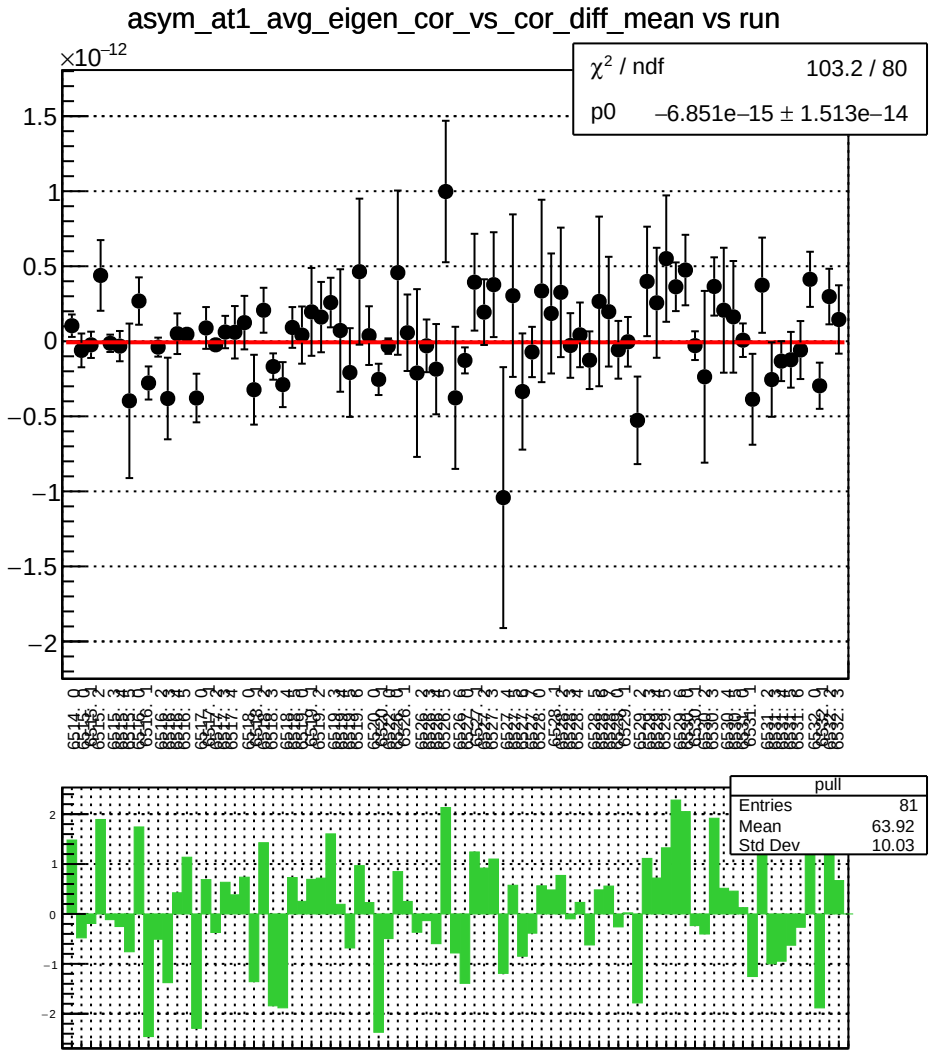

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.49 / 80
p0 0.1419 ± 0.09303
pull
Entries 81
Mean −173.9
Std Dev 0
pull1D
Entries 81
Mean −0.03485
Std Dev 1.108

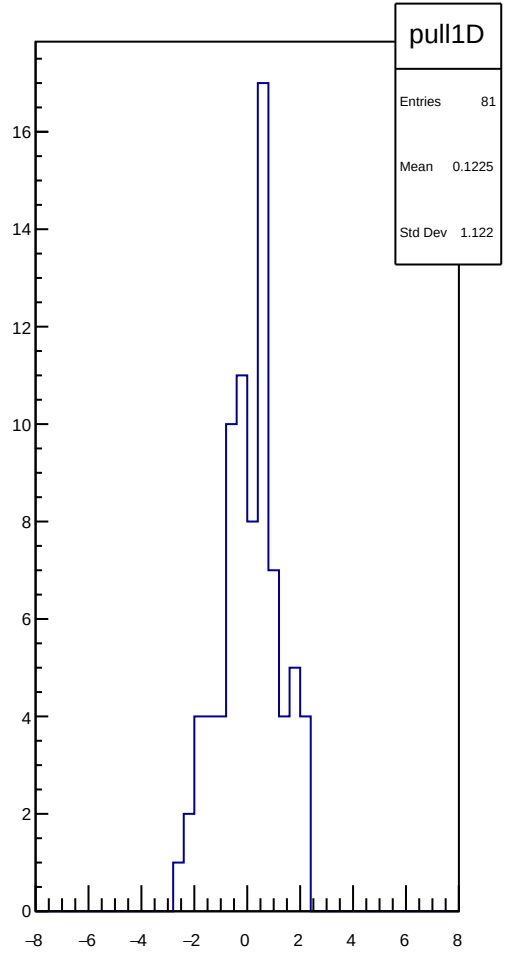

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.271e+05 / 80
p0 75.97 ± 0.06578
350
300
250
200
150
100
50

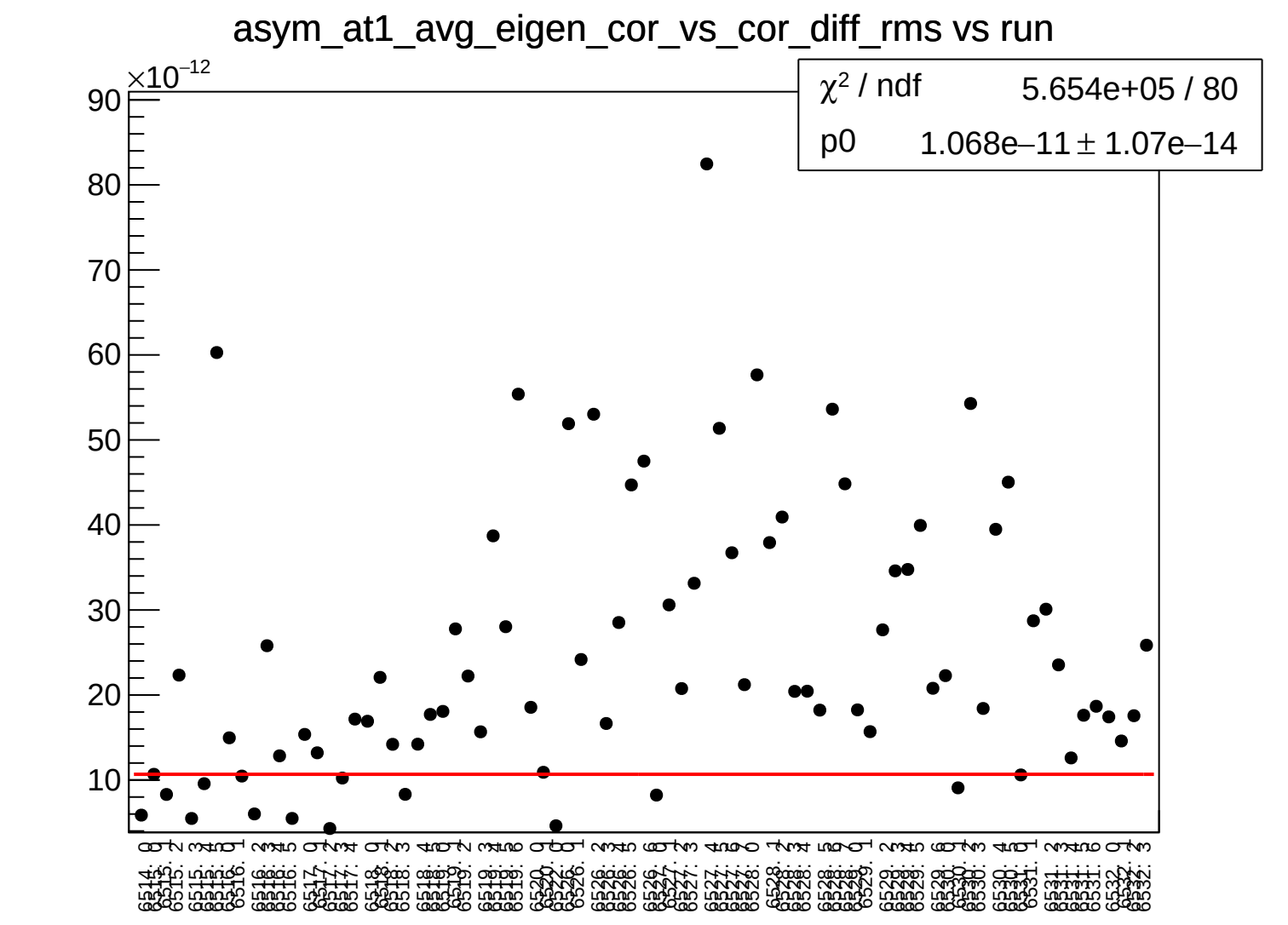

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.49 / 80
p0 0.1419 ± 0.09303
pull
Entries 81
Mean −173.9
Std Dev 0

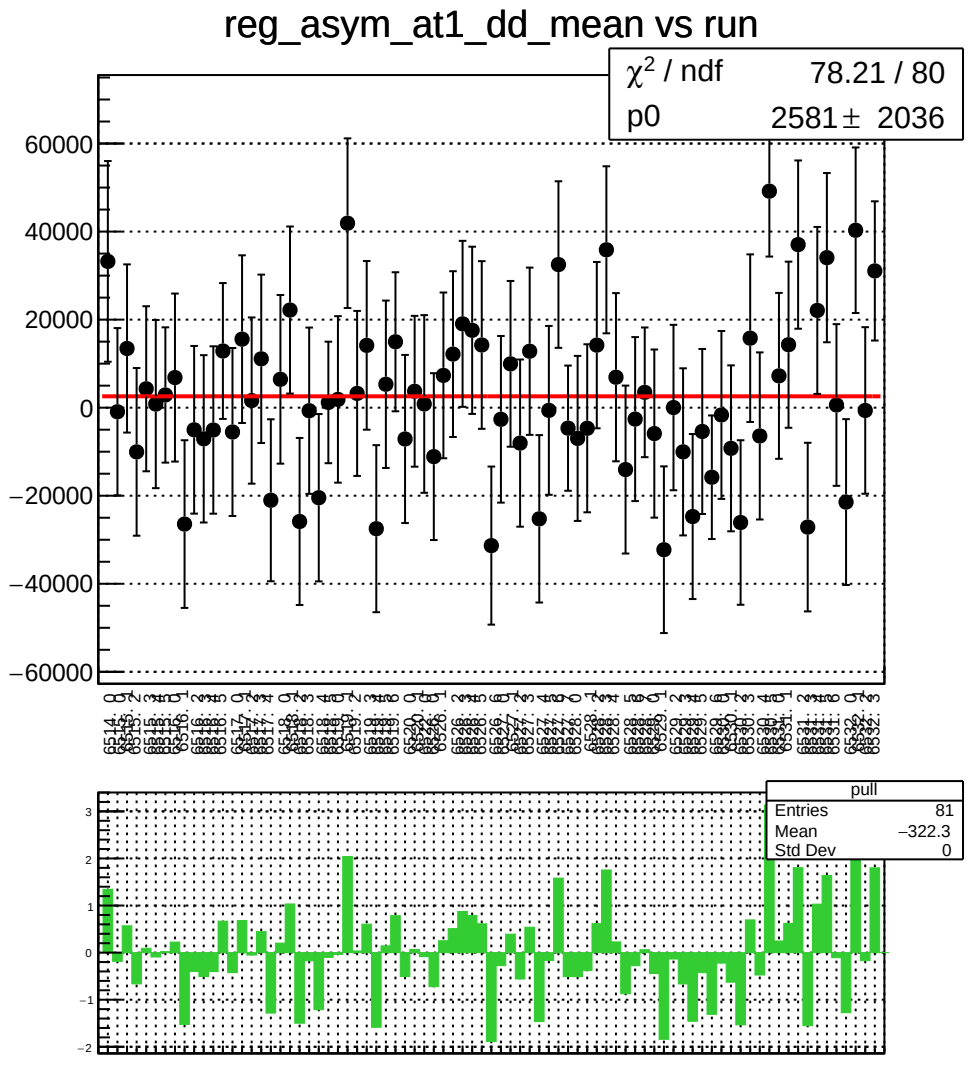

pull1D
Entries 81
Mean −0.03485
Std Dev 1.108

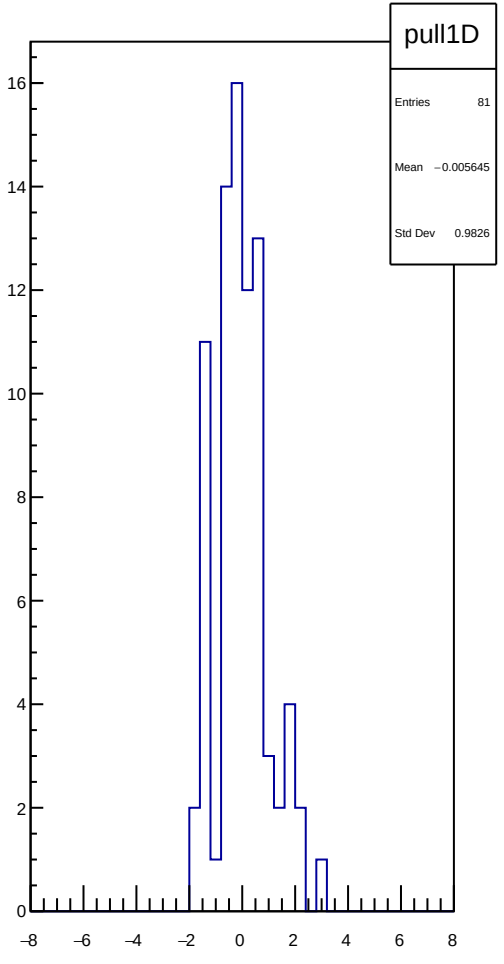

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.271e+05 / 80
p0 75.97 ± 0.06578
350
300
250
200
150
100
50

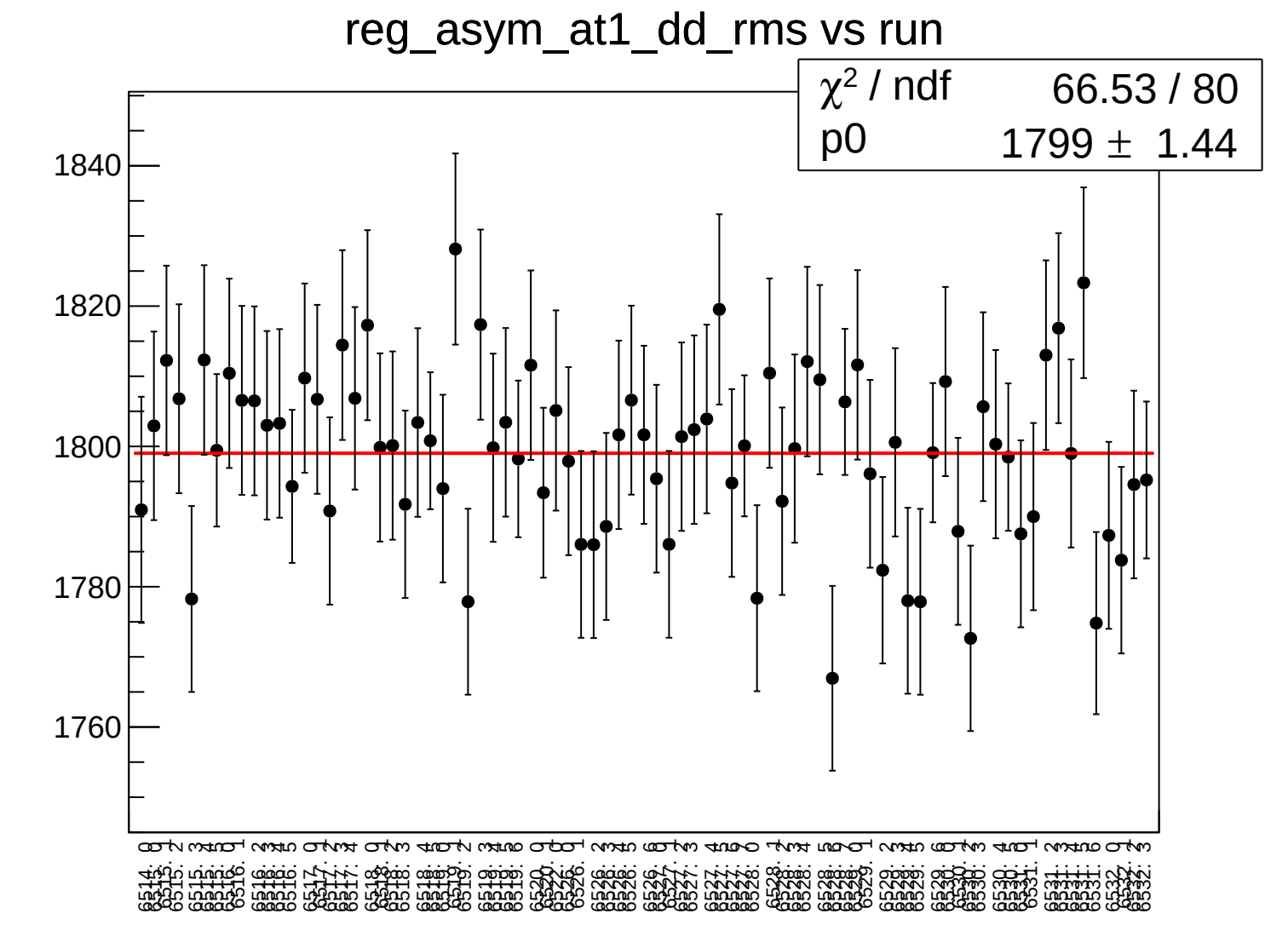

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 103.2 / 80
p0 −6.851e−15 ± 1.513e−14
pull
Entries 81
Mean 63.92
Std Dev 10.03

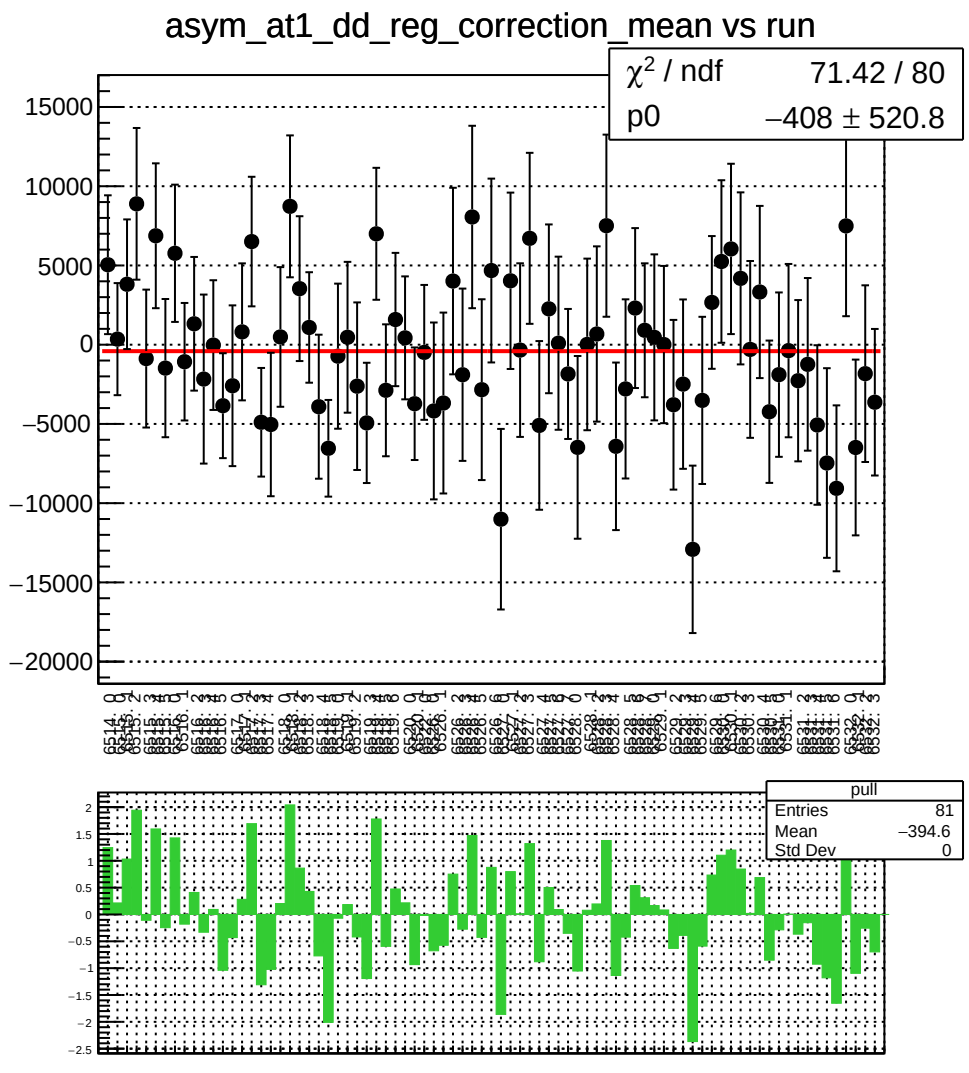

pull1D
Entries 81
Mean 0.1225
Std Dev 1.122

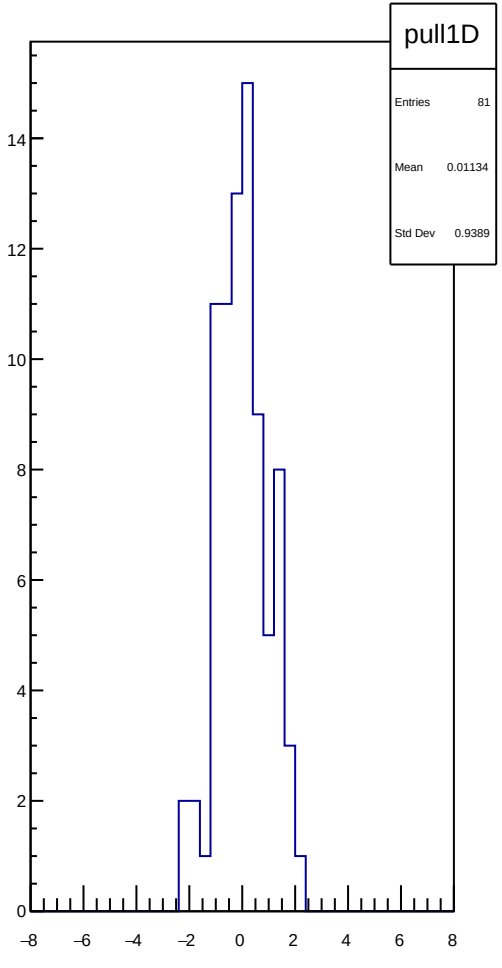

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.654e+05 / 80
p0 1.068e−11 ± 1.07e−14
90
80
70
60
50
40
30
20
10

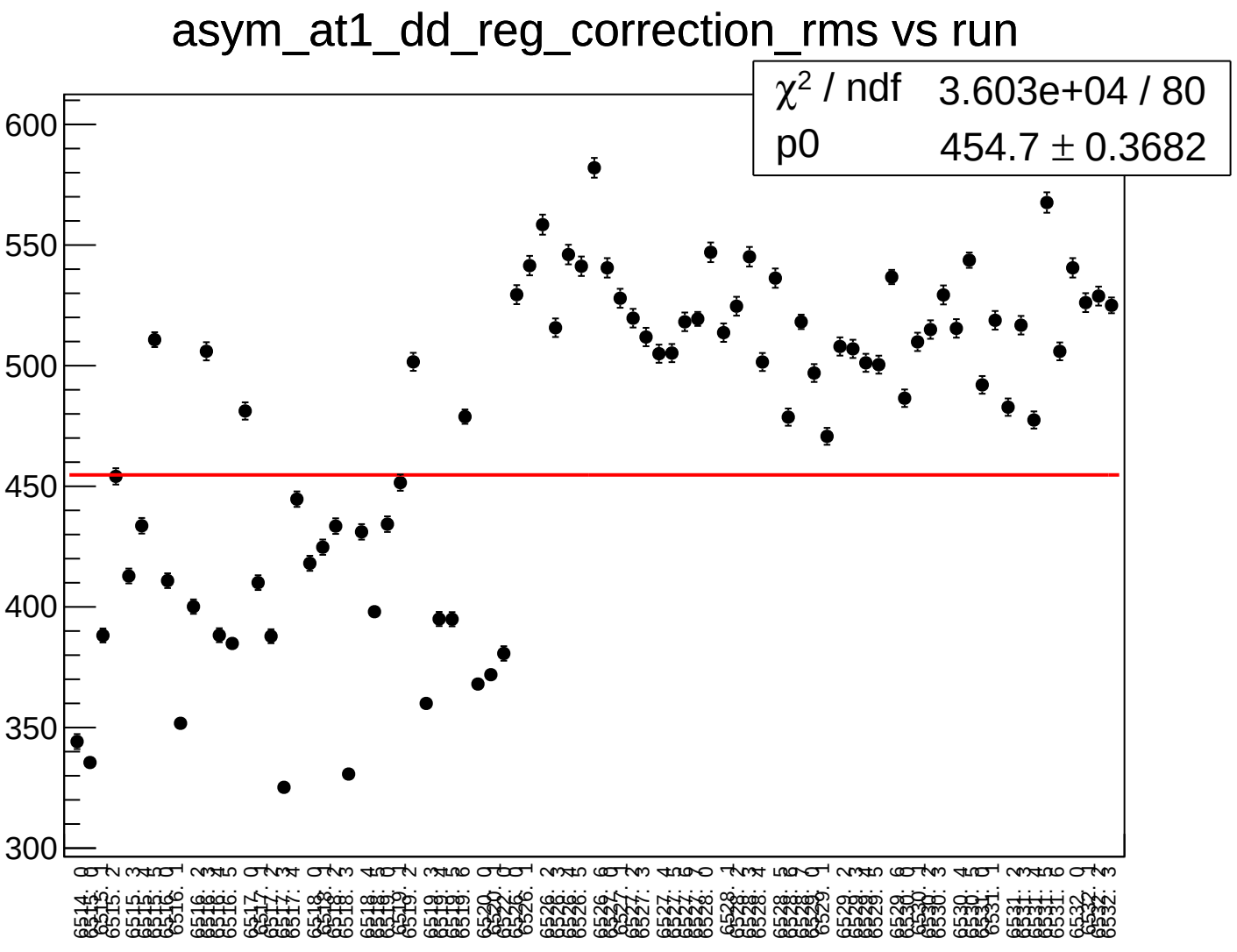

reg_asym_at1_dd_mean vs run
χ² / ndf 78.21 / 80
p0 2581 ± 2036
pull
Entries 81
Mean −322.3
Std Dev 0

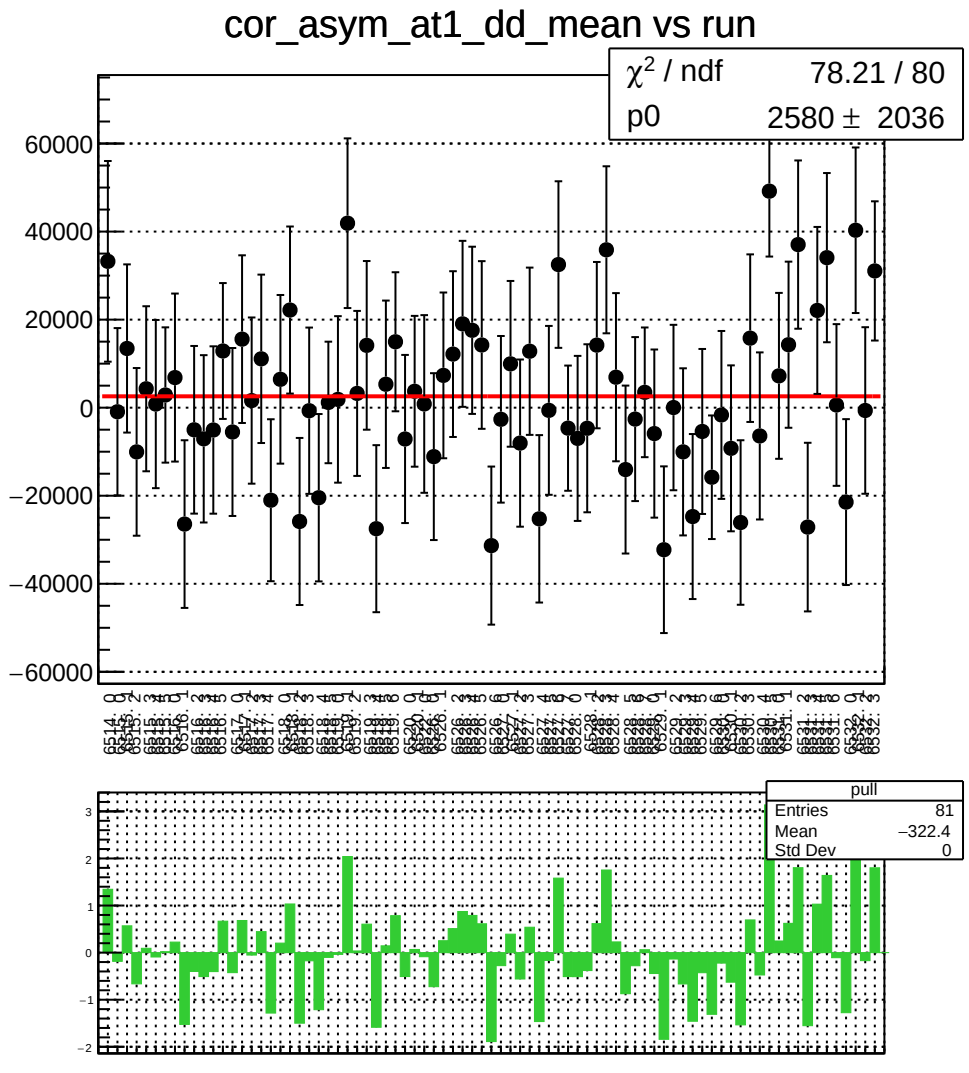

pull1D
Entries 81
Mean −0.005645
Std Dev 0.9826

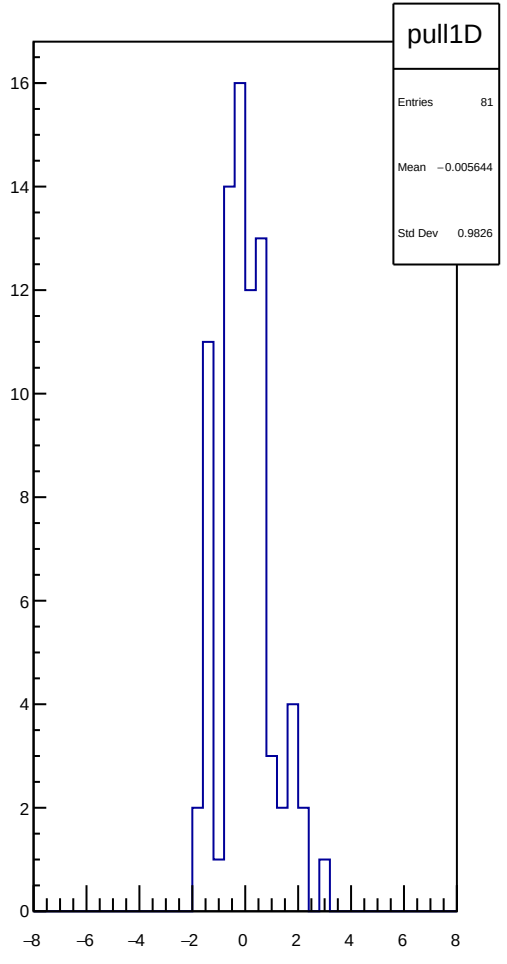

reg_asym_at1_dd_rms vs run
χ² / ndf 66.53 / 80
p0 1799 ± 1.44
1840
1820
1800
1780
1760

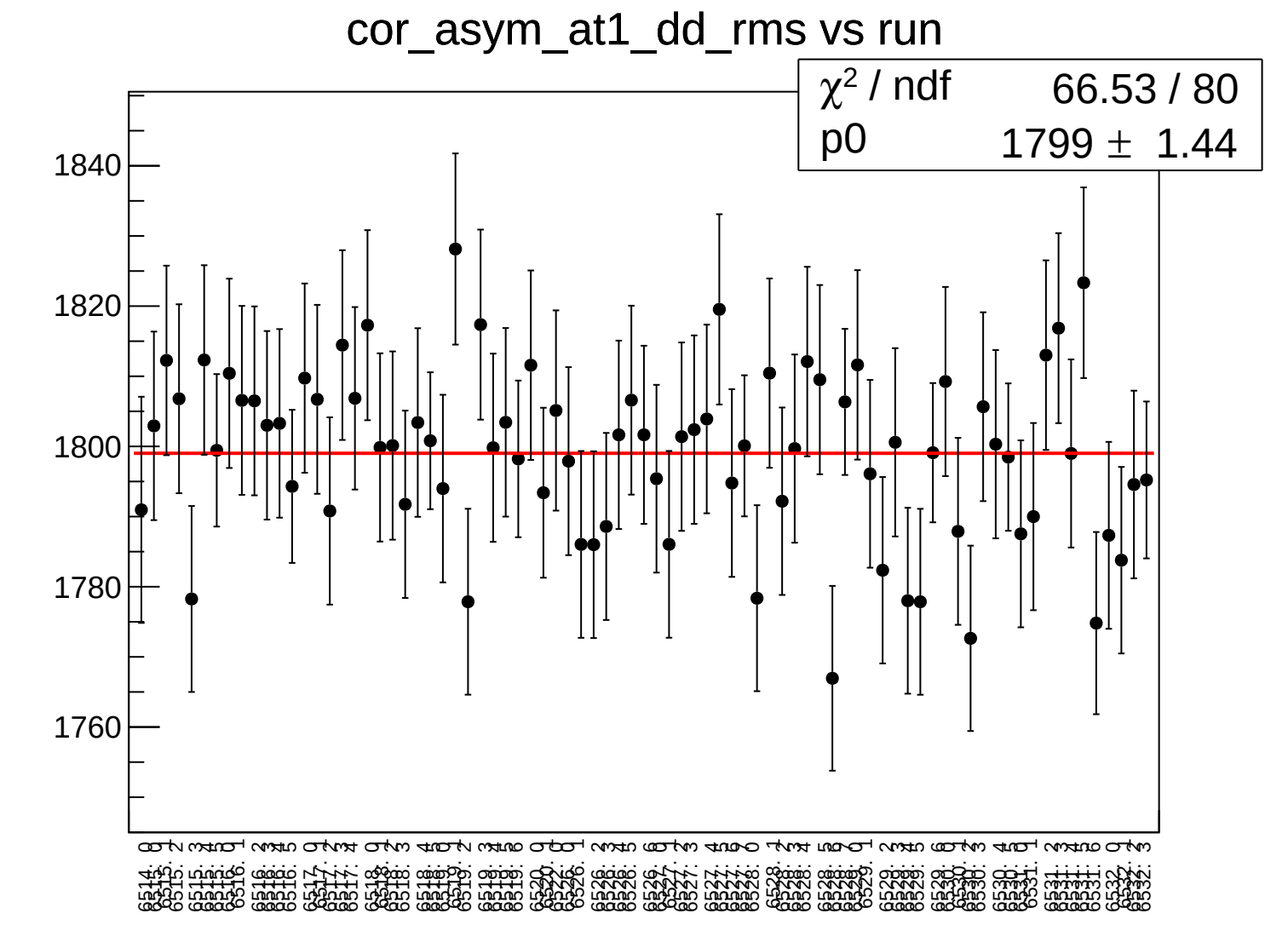

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 71.42 / 80
p0 −408 ± 520.8
pull
Entries 81
Mean −394.6
Std Dev 0

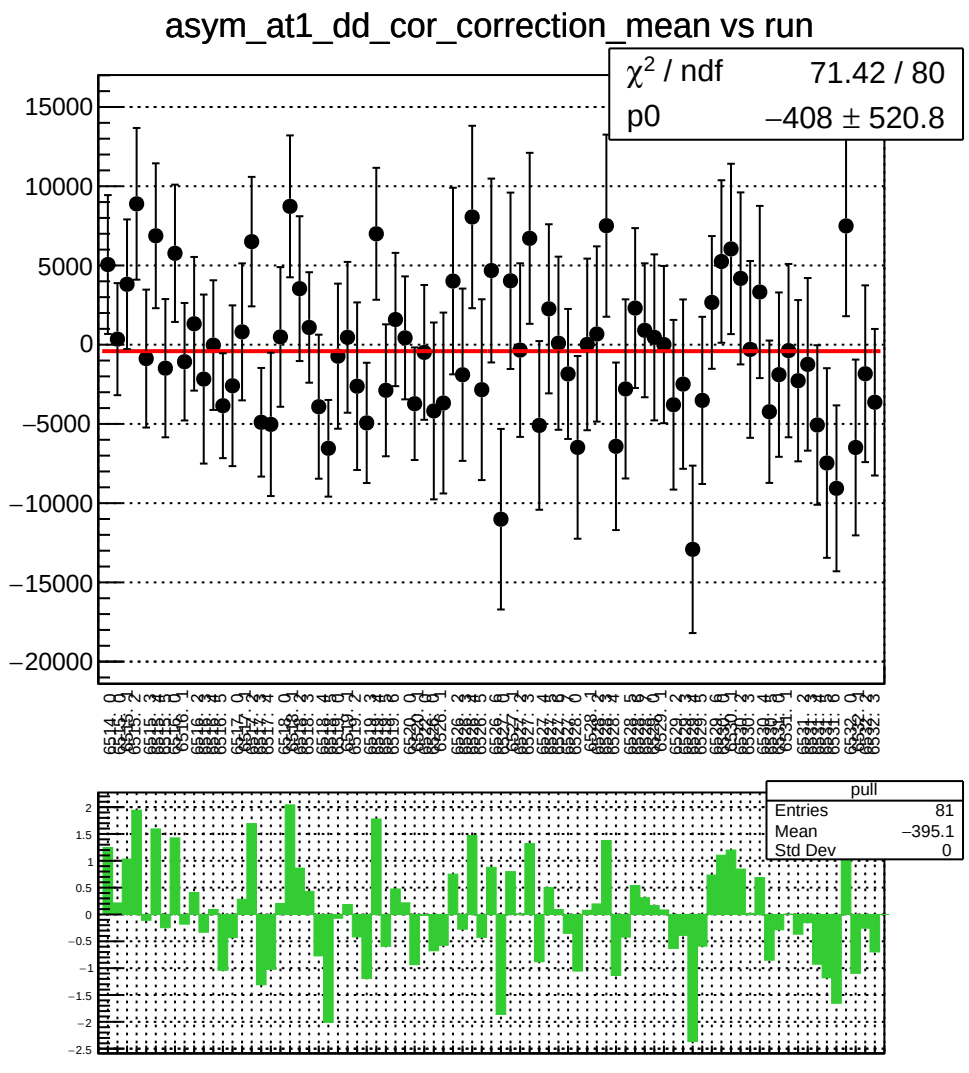

pull1D
Entries 81
Mean 0.01134
Std Dev 0.9389

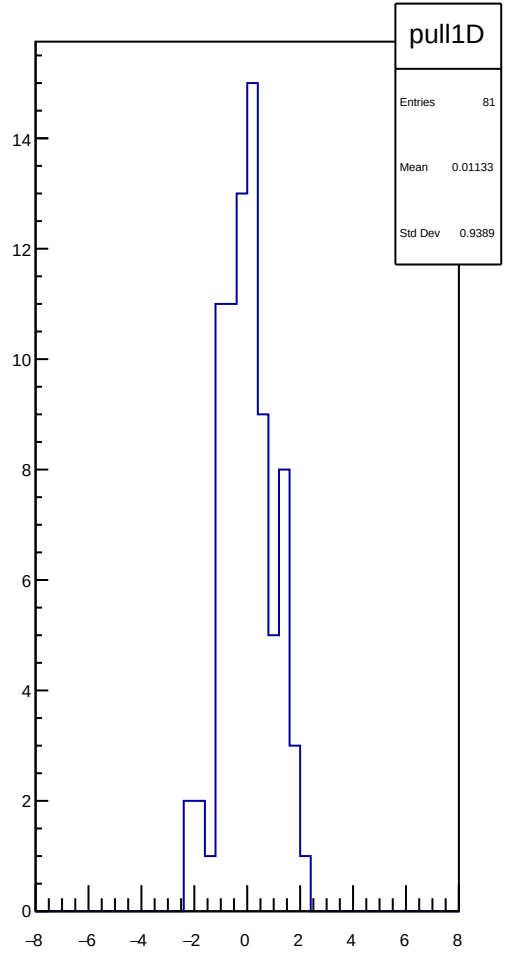

asym_at1_dd_reg_correction_rms vs run
χ² / ndf 3.603e+04 / 80
p0 454.7 ± 0.3682
600
550
500
450
400
350
300

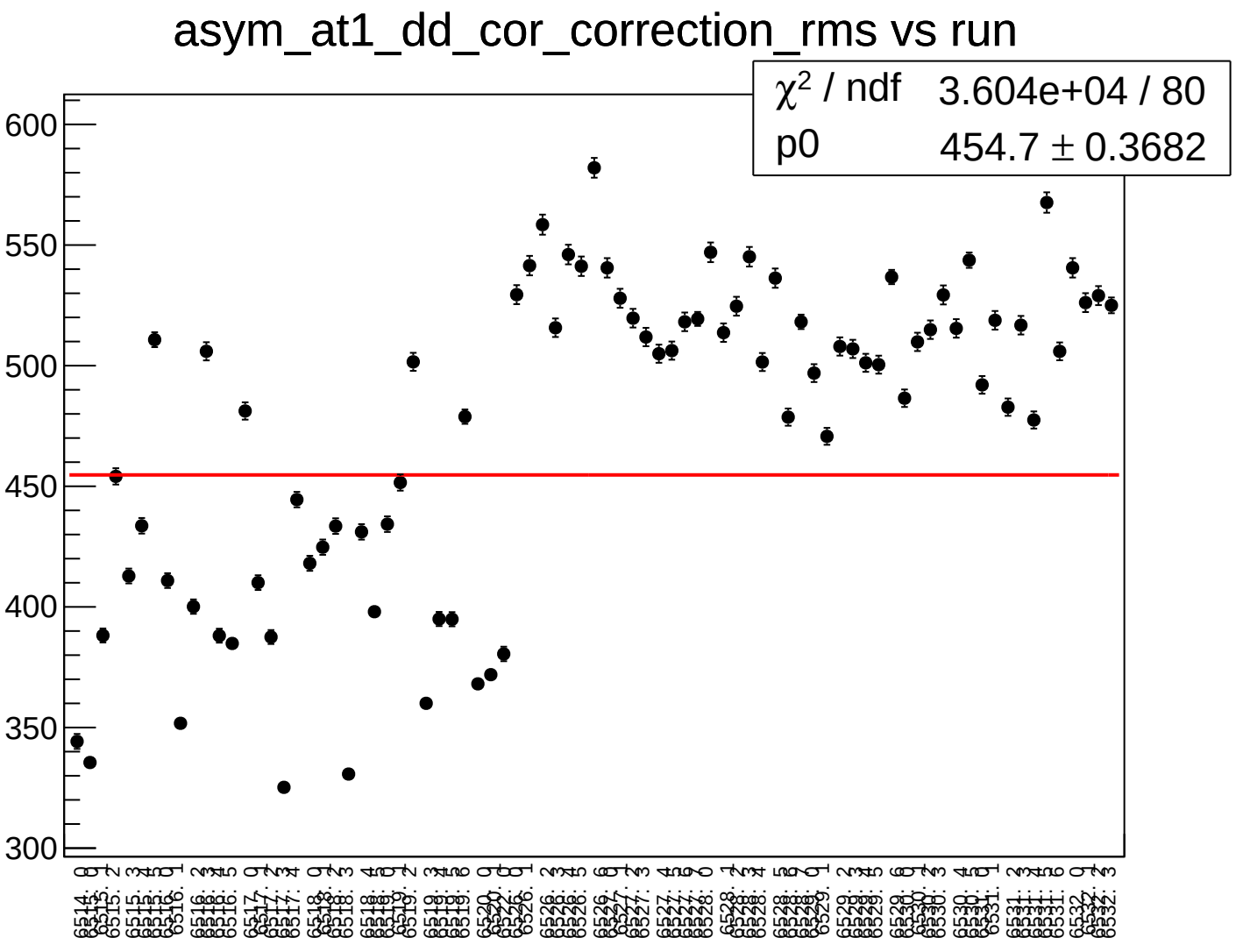

cor_asym_at1_dd_mean vs run
χ² / ndf 78.21 / 80
p0 2580 ± 2036
pull
Entries 81
Mean −322.4
Std Dev 0

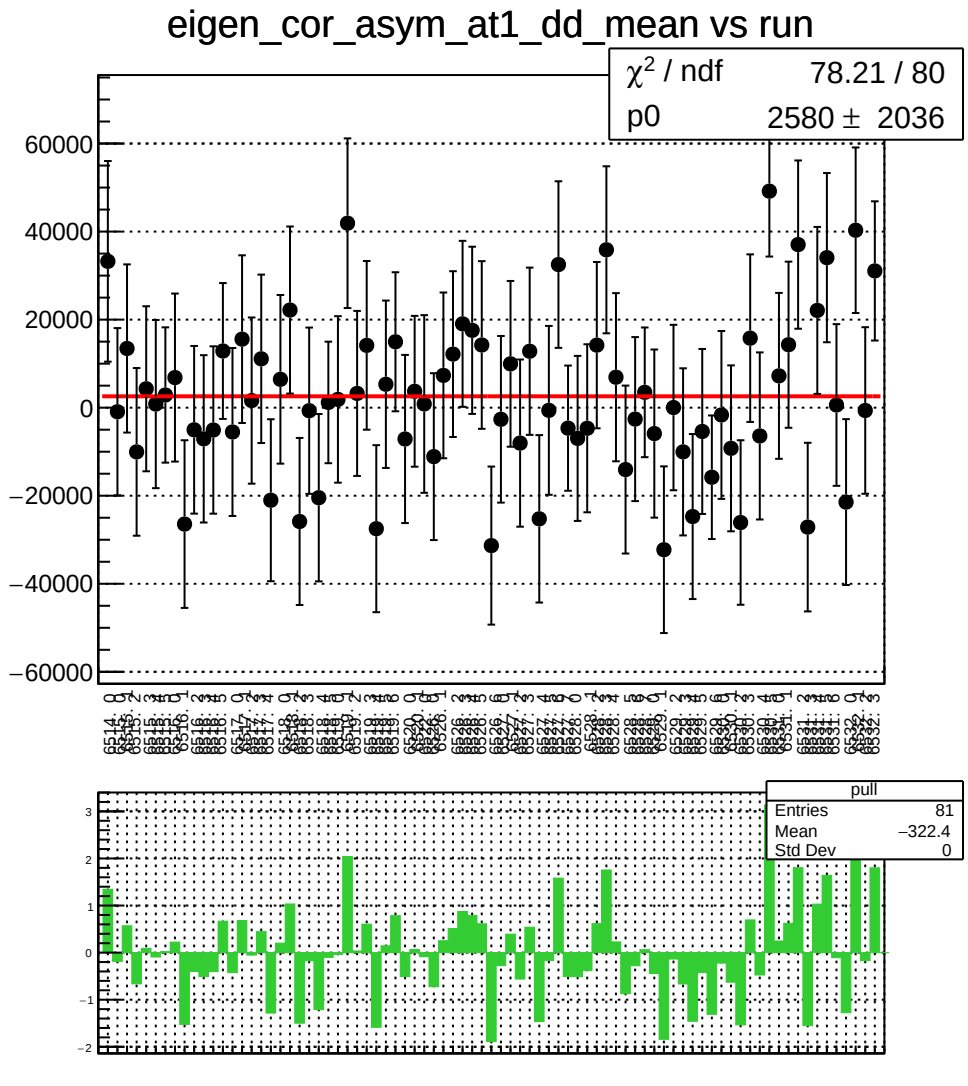

pull1D
Entries 81
Mean −0.005644
Std Dev 0.9826

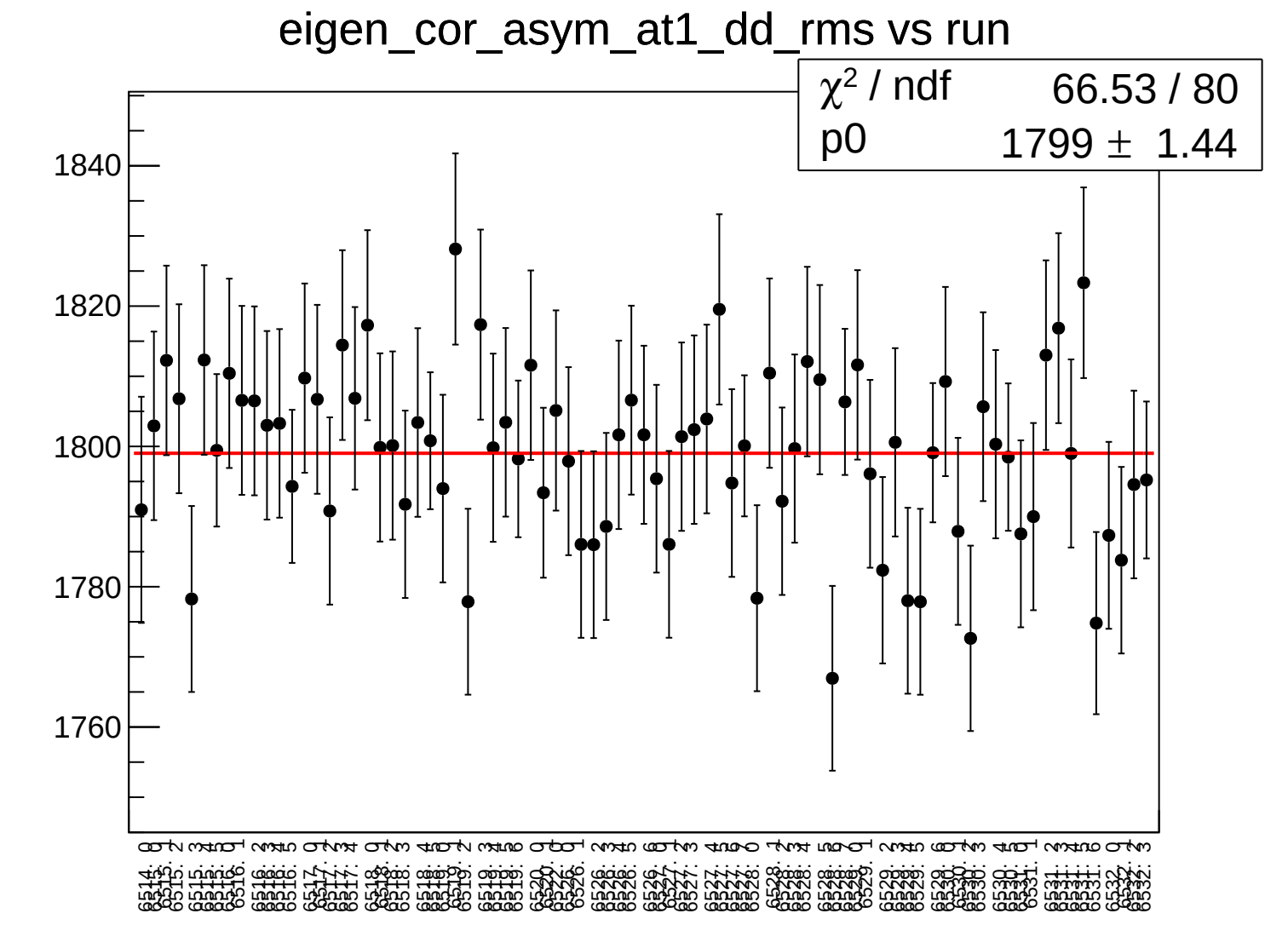

cor_asym_at1_dd_rms vs run
χ² / ndf 66.53 / 80
p0 1799 ± 1.44
1840
1820
1800
1780
1760

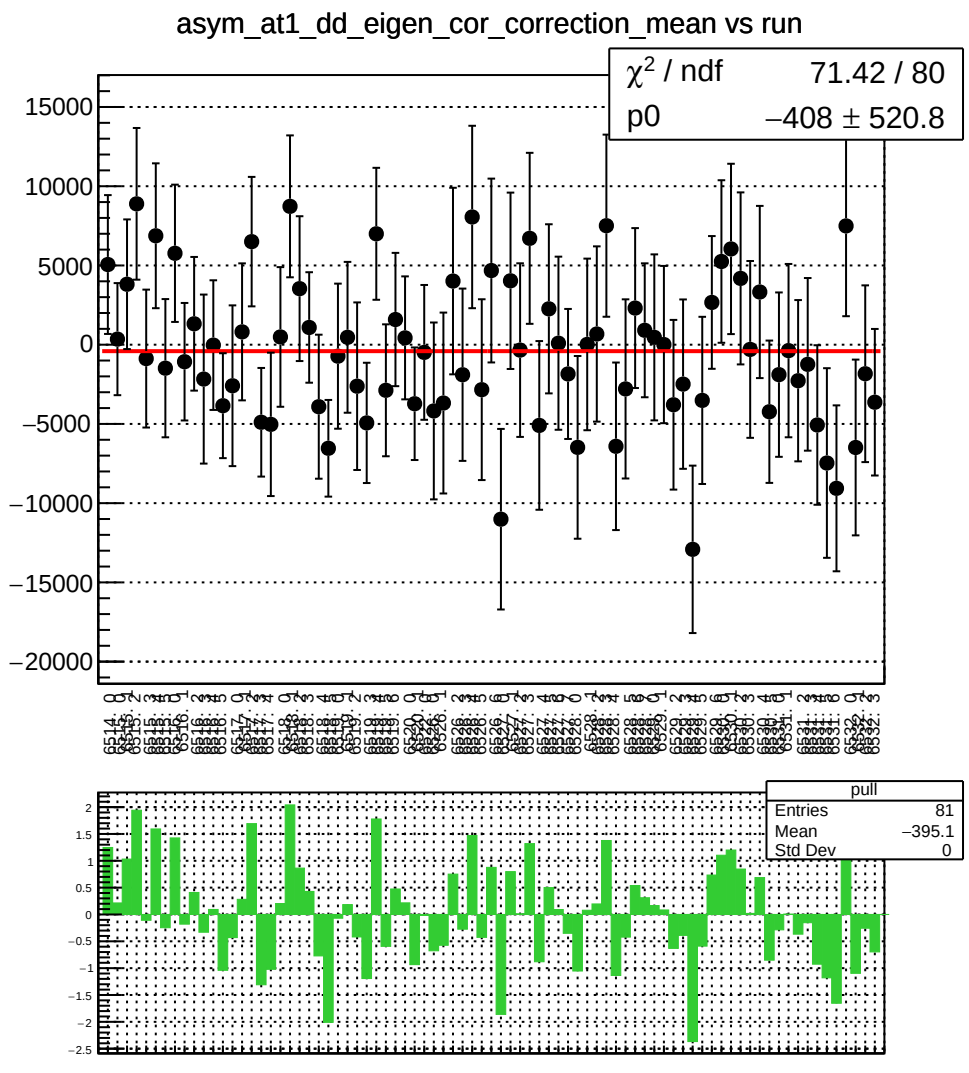

asym_at1_dd_cor_correction_mean vs run
χ² / ndf 71.42 / 80
p0 −408 ± 520.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 81
Mean −395.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

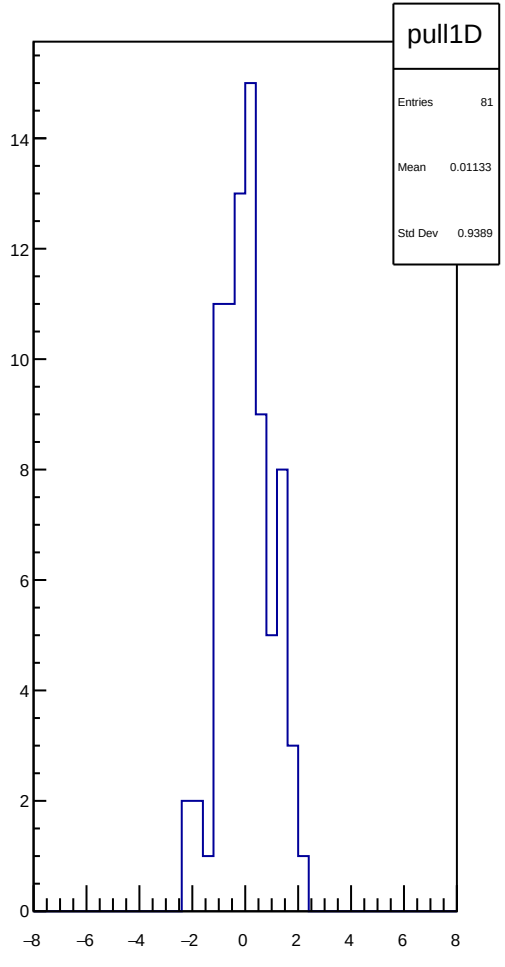

pull1D
Entries 81
Mean 0.01133
Std Dev 0.9389
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

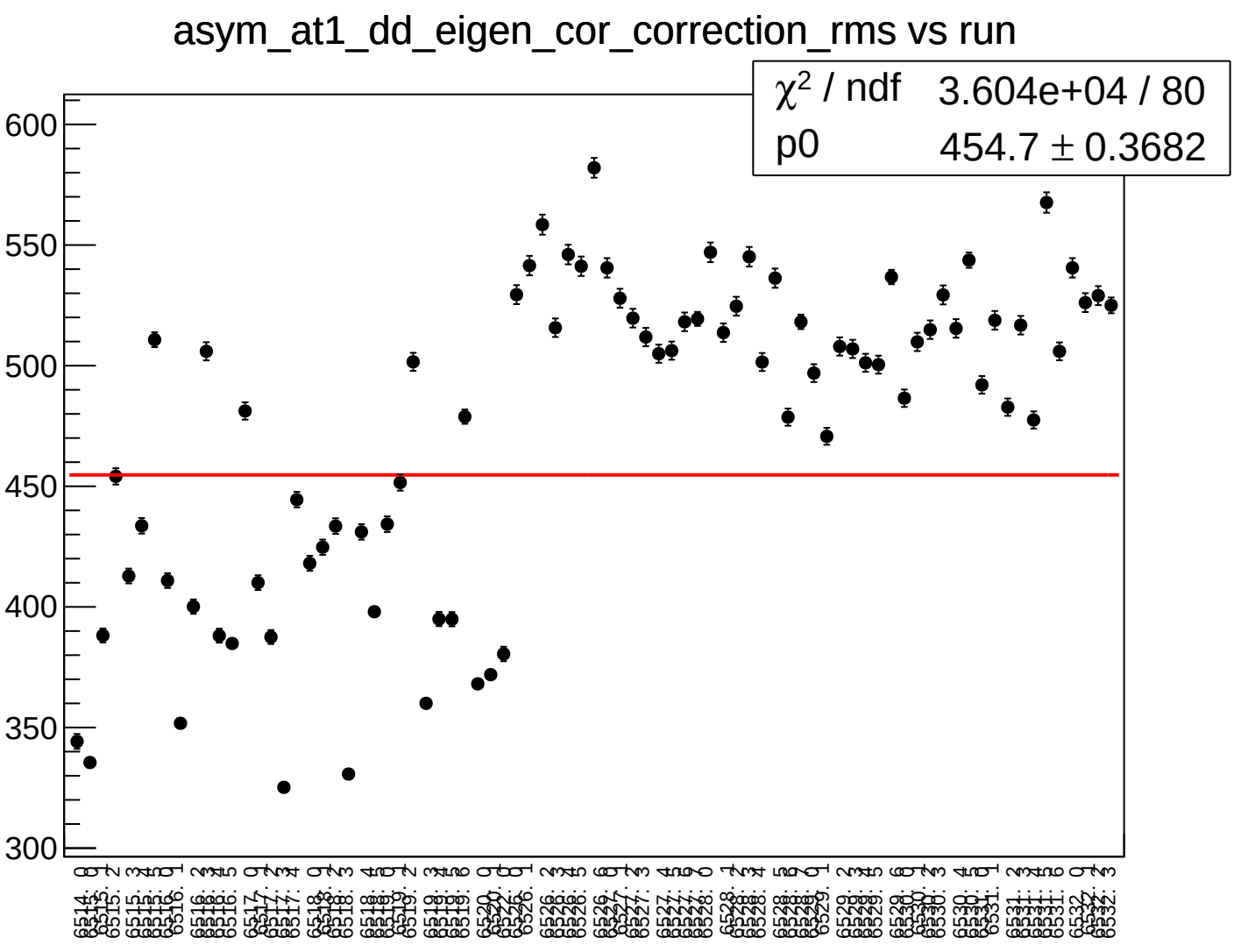

asym_at1_dd_cor_correction_rms vs run
χ² / ndf 3.604e+04 / 80
p0 454.7 ± 0.3682
600
550
500
450
400
350
300

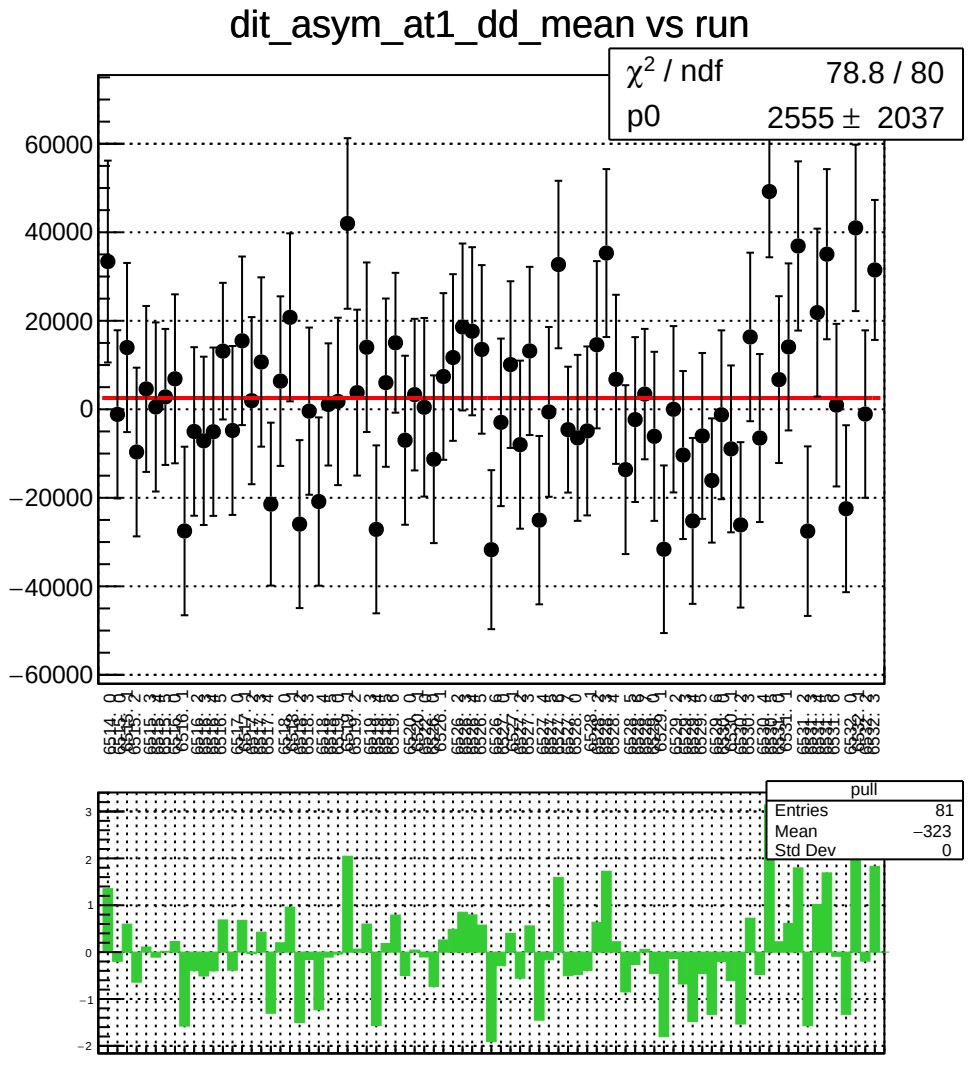

eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 78.21 / 80
p0 2580 ± 2036
pull
Entries 81
Mean −322.4
Std Dev 0
pull1D
Entries 81
Mean −0.005644
Std Dev 0.9826

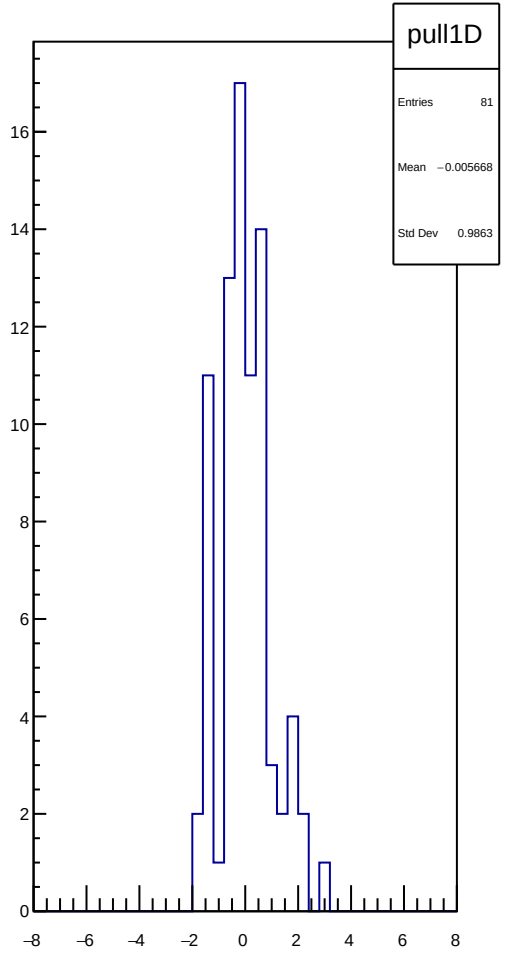

eigen_cor_asym_at1_dd_rms vs run
χ² / ndf 66.53 / 80
p0 1799 ± 1.44
1840
1820
1800
1780
1760

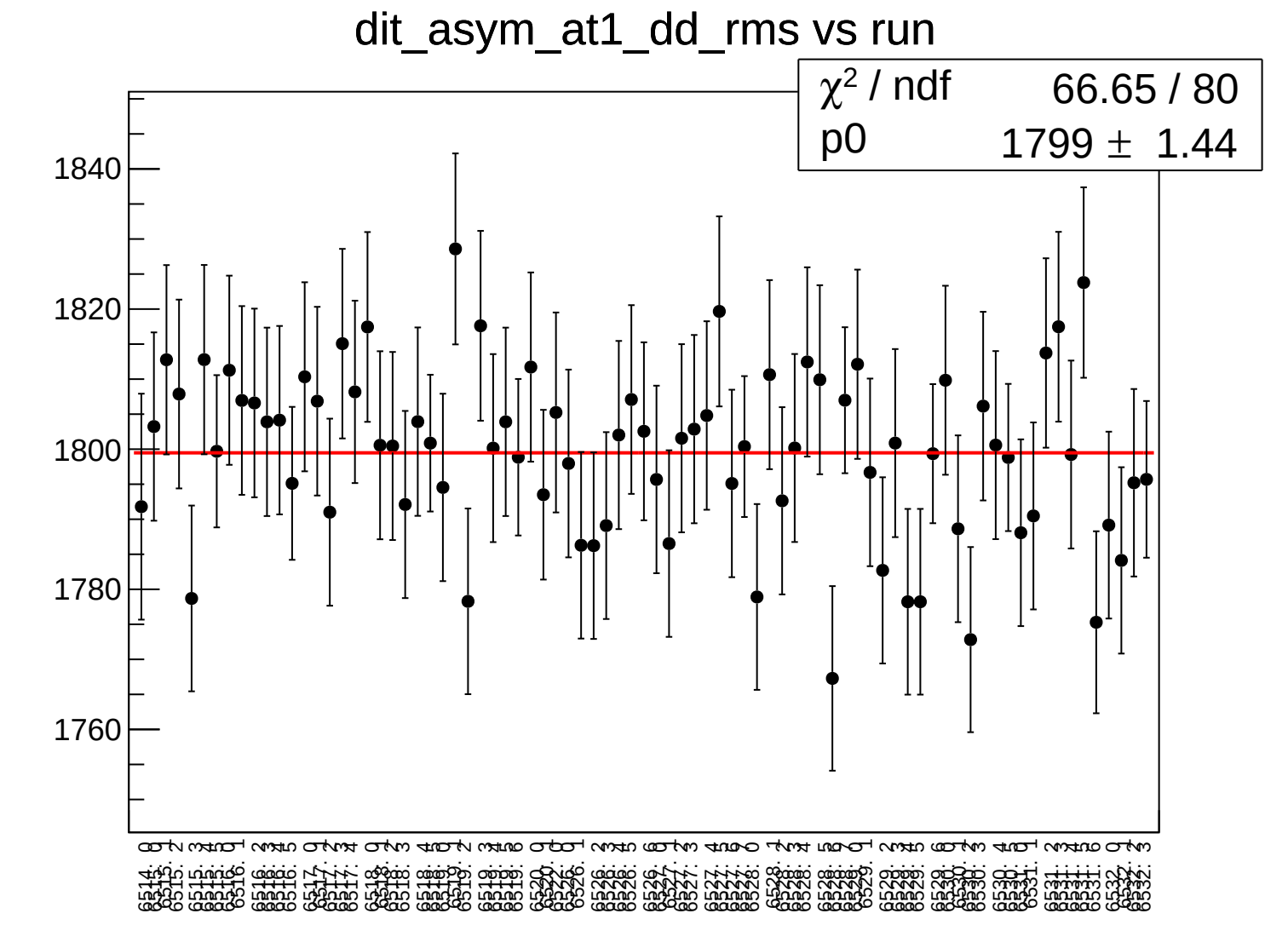

asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 71.42 / 80
p0 −408 ± 520.8
pull
Entries 81
Mean −395.1
Std Dev 0

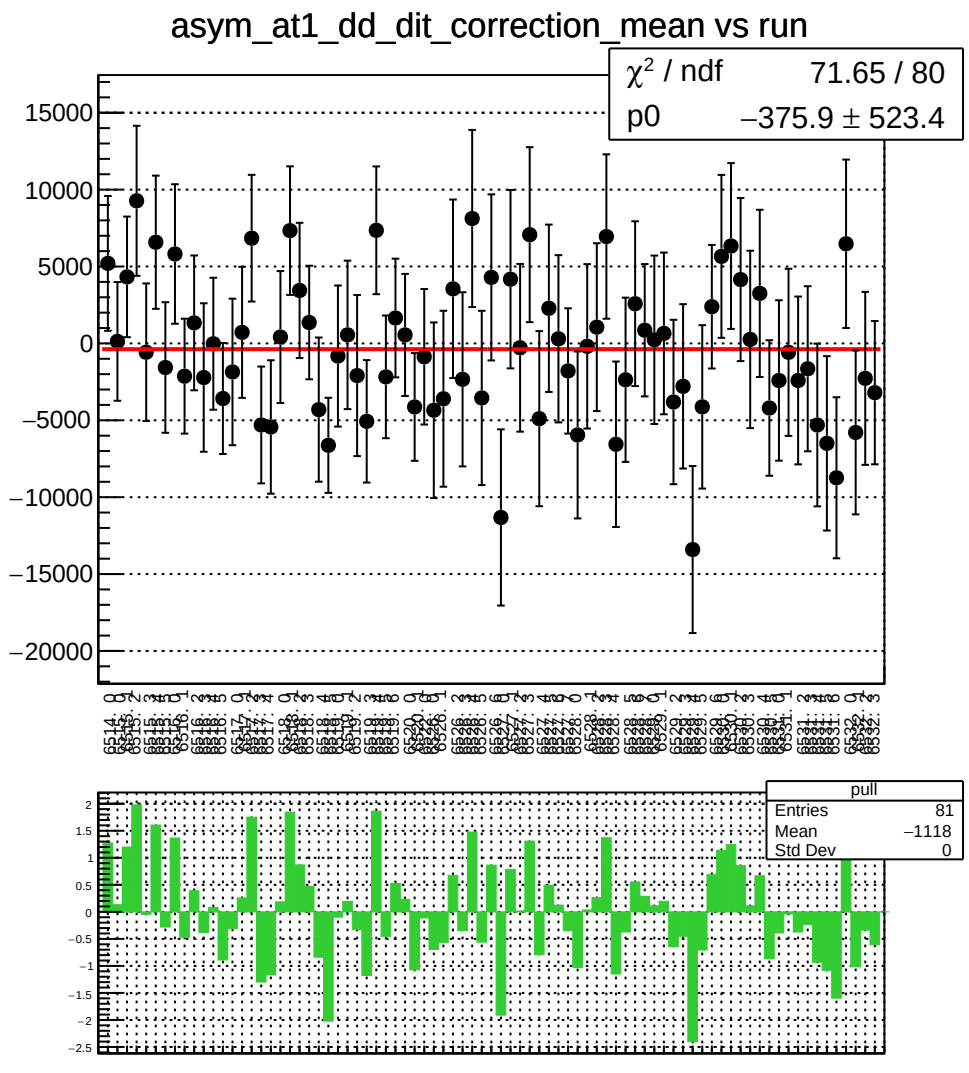

pull1D
Entries 81
Mean 0.01133
Std Dev 0.9389

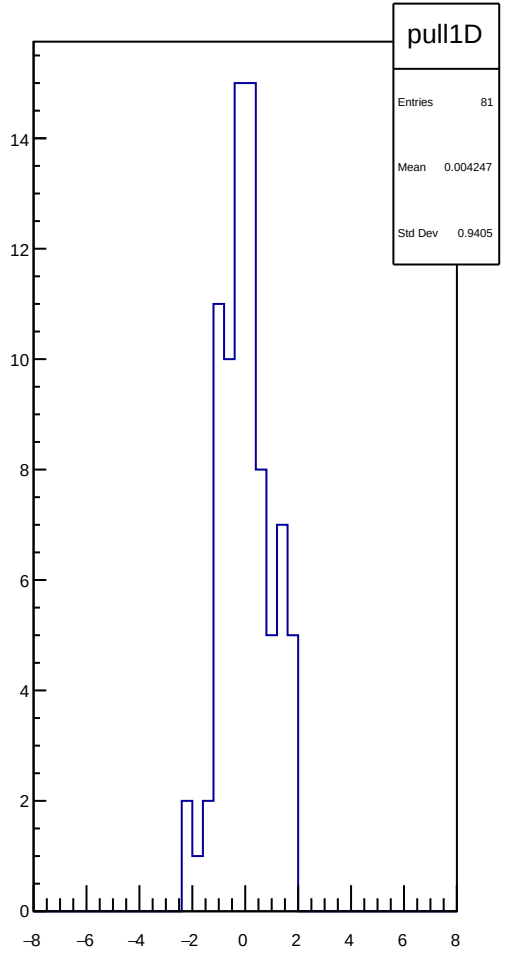

asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.604e+04 / 80
p0 454.7 ± 0.3682
600
550
500
450
400
350
300

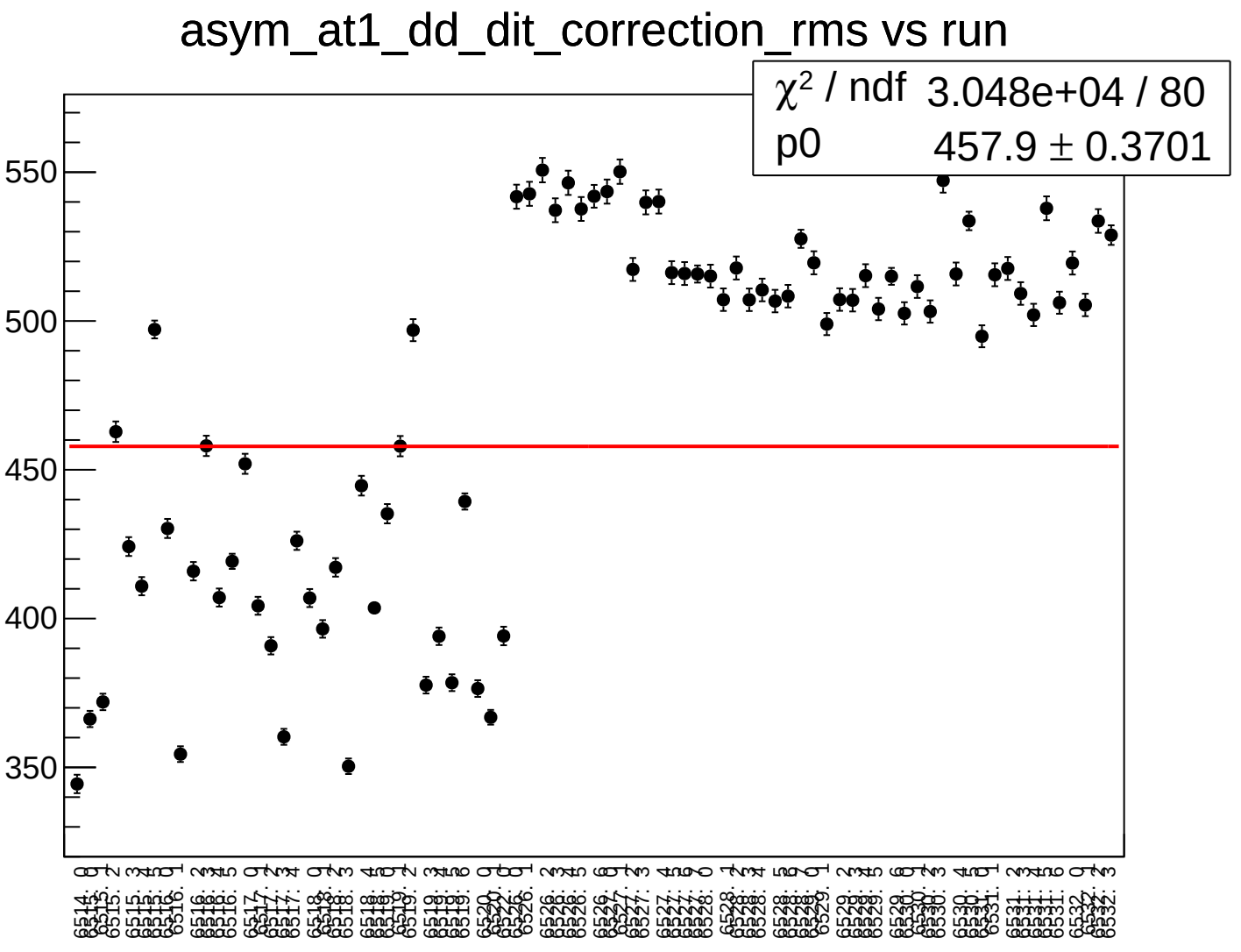

dit_asym_at1_dd_mean vs run
χ² / ndf 78.8 / 80
p0 2555 ± 2037
pull
Entries 81
Mean −323
Std Dev 0

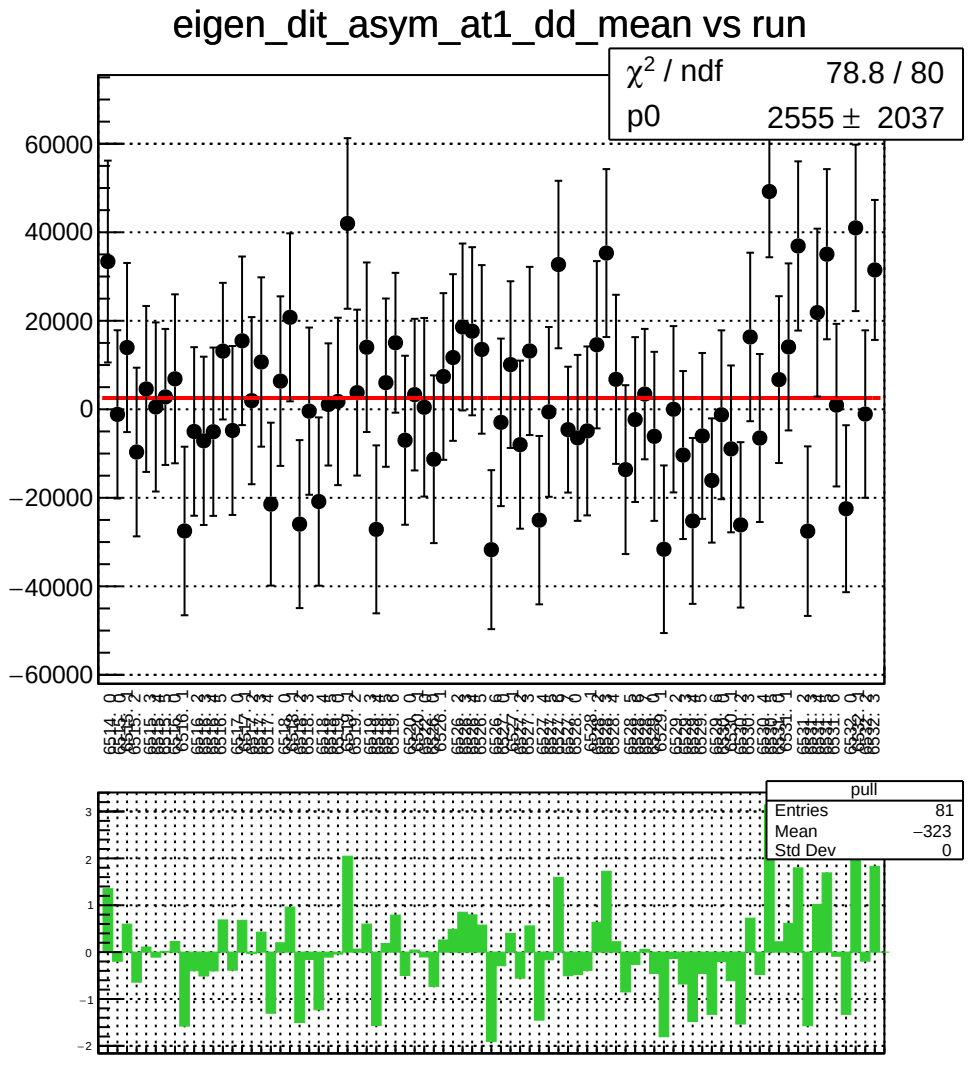

pull1D
Entries 81
Mean −0.005668
Std Dev 0.9863

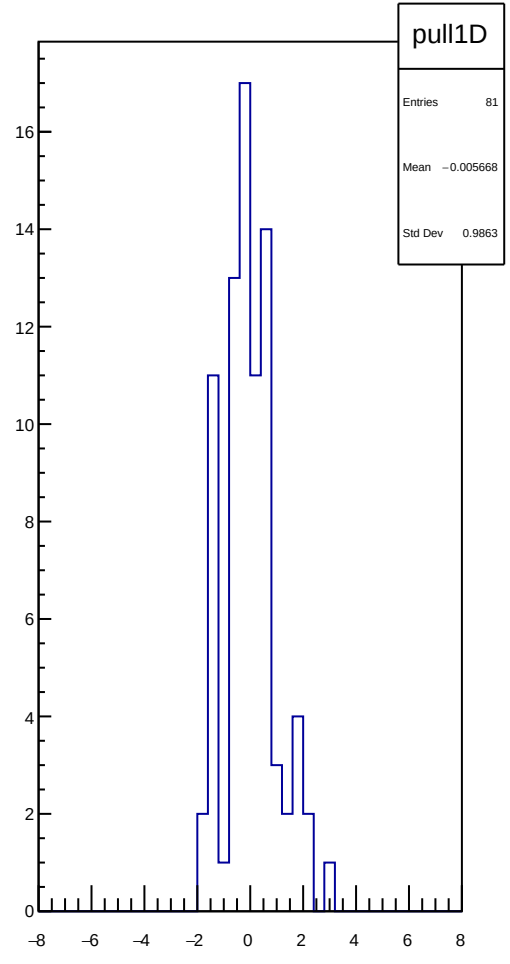

dit_asym_at1_dd_rms vs run
χ² / ndf 66.65 / 80
p0 1799 ± 1.44
1840
1820
1800
1780
1760

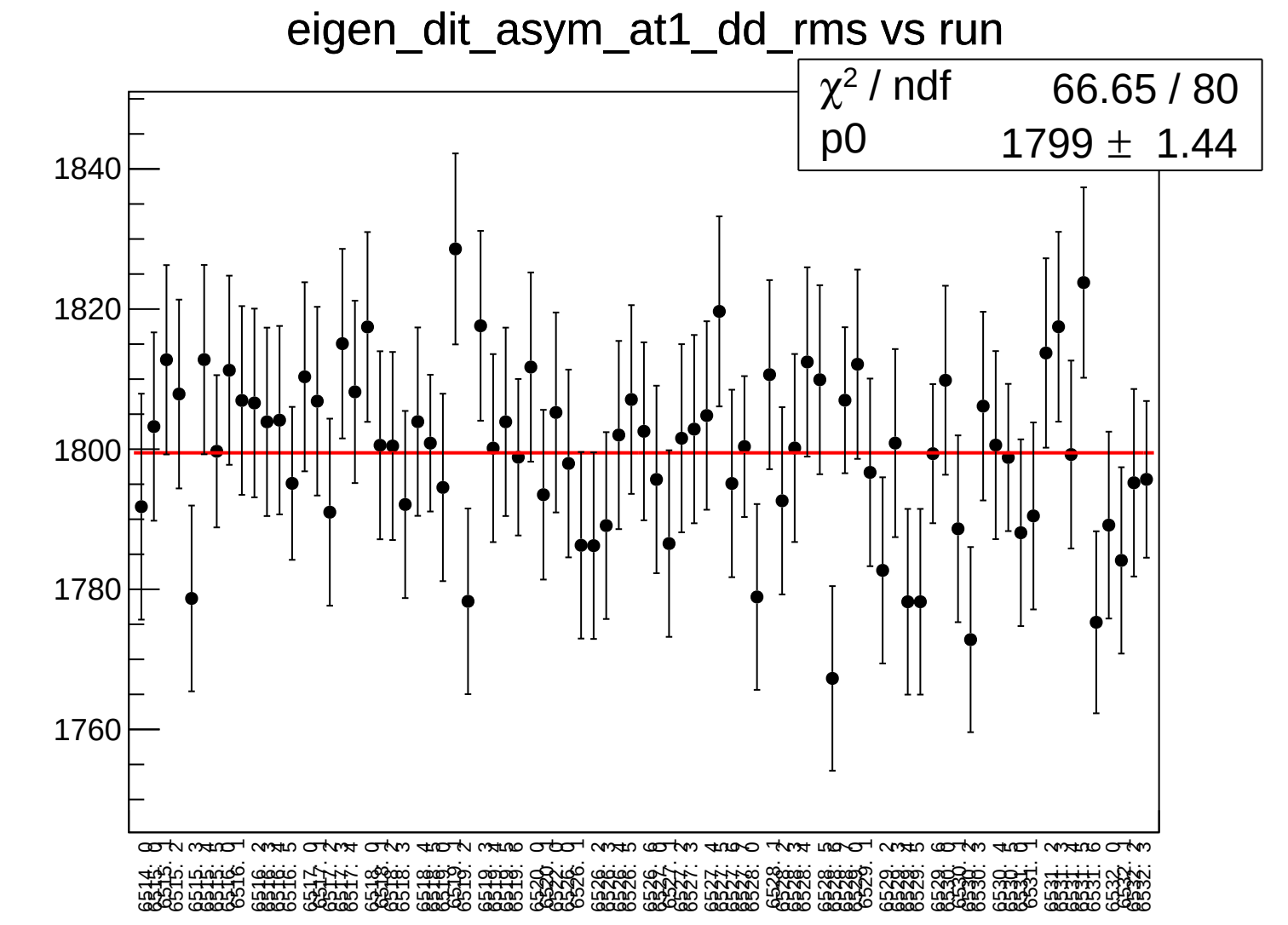

asym_at1_dd_dit_correction_mean vs run
χ² / ndf 71.65 / 80
p0 −375.9 ± 523.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 81
Mean −1118
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

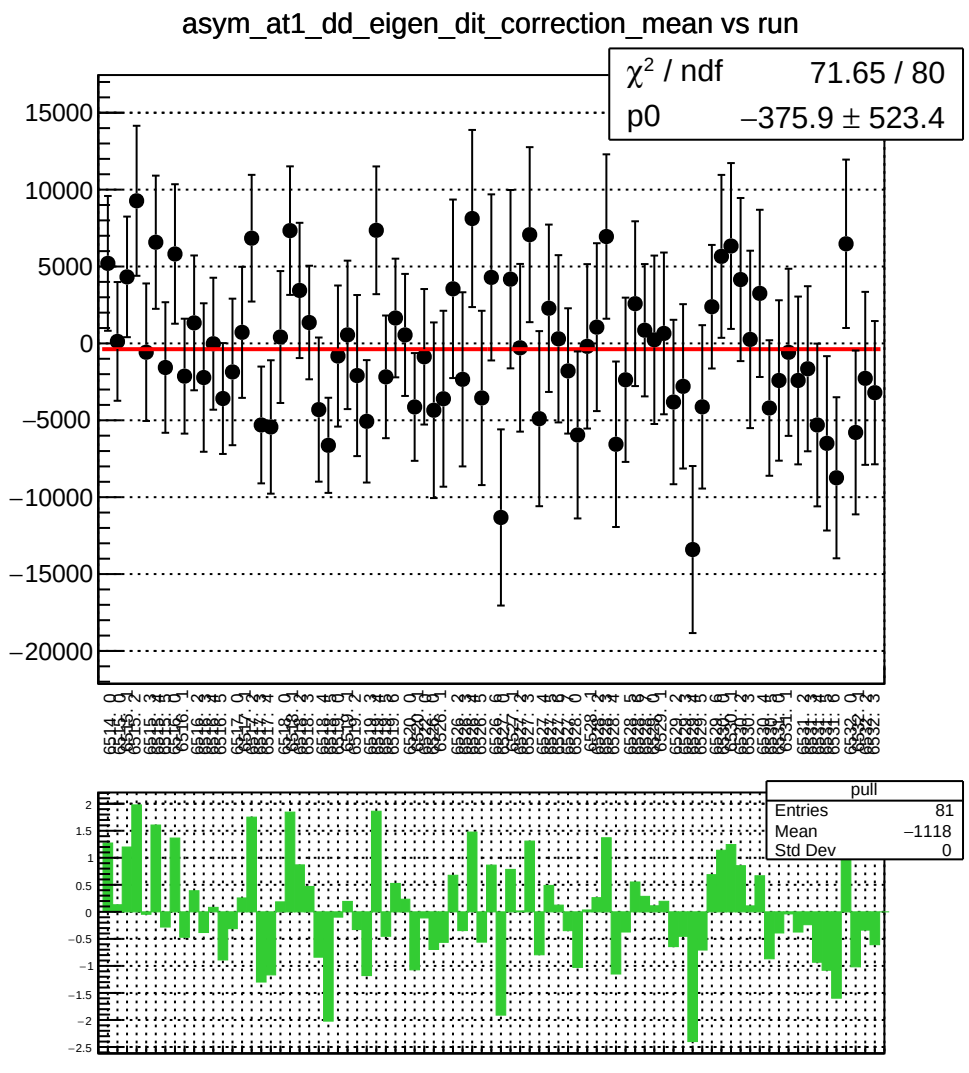

pull1D
Entries 81
Mean 0.004247
Std Dev 0.9405
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

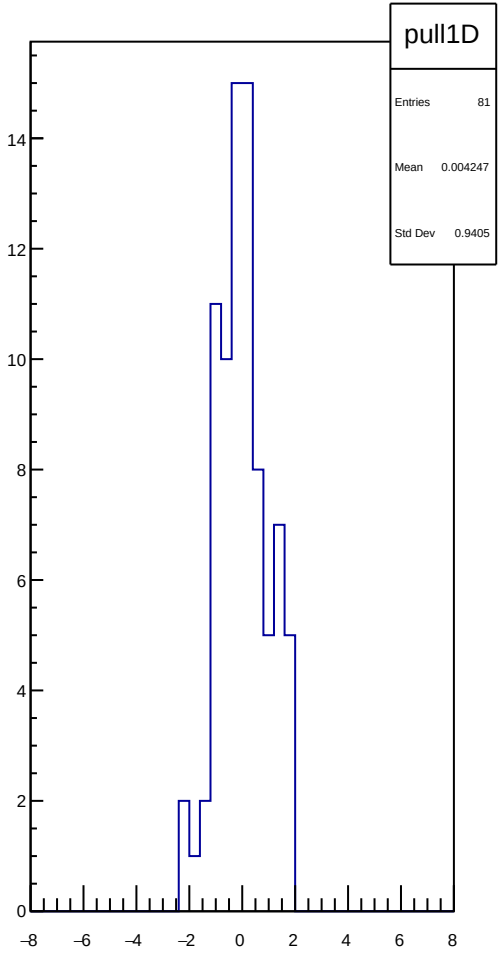

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 3.048e+04 / 80
p0 457.9 ± 0.3701
550
500
450
400
350

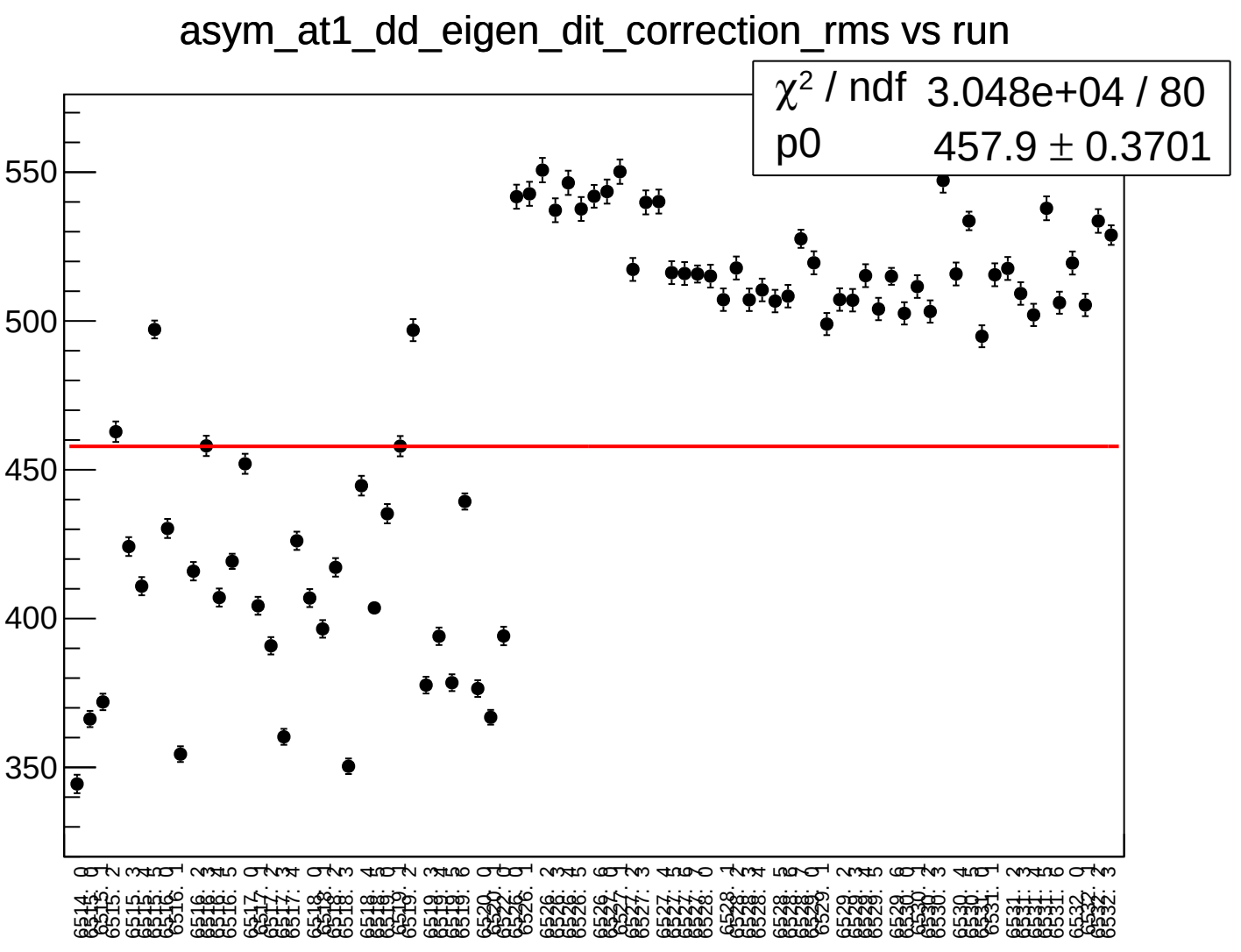

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 78.8 / 80
p0 2555 ± 2037
pull
Entries 81
Mean −323
Std Dev 0

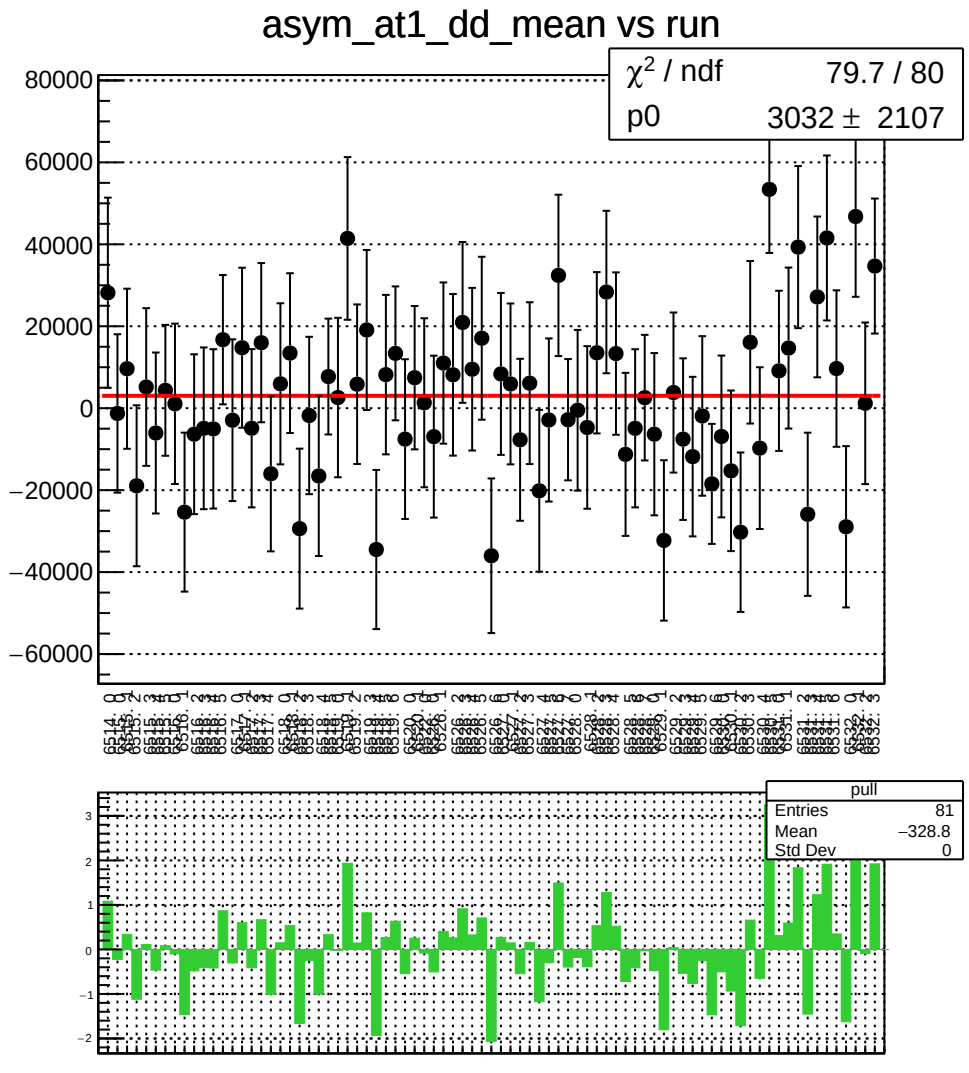

pull1D
Entries 81
Mean −0.005668
Std Dev 0.9863

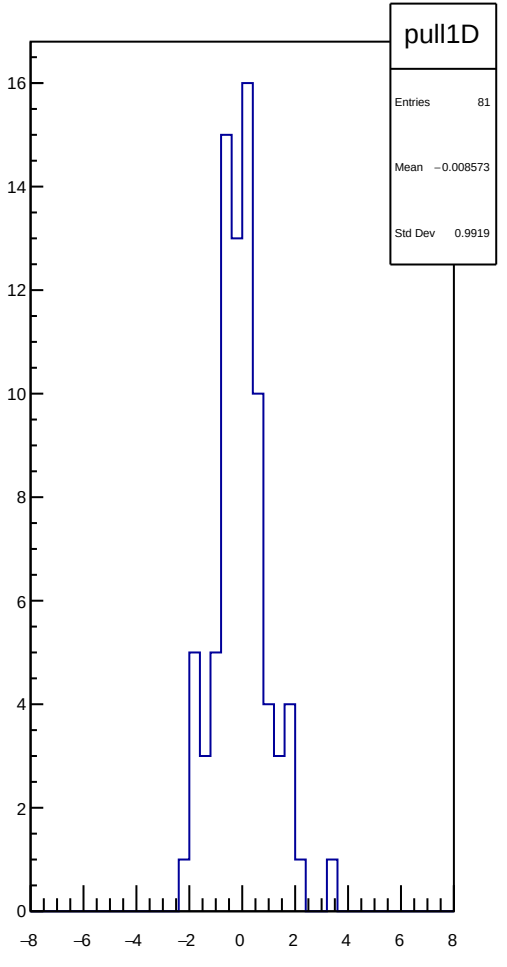

eigen_dit_asym_at1_dd_rms vs run
χ² / ndf 66.65 / 80
p0 1799 ± 1.44
1840
1820
1800
1780
1760

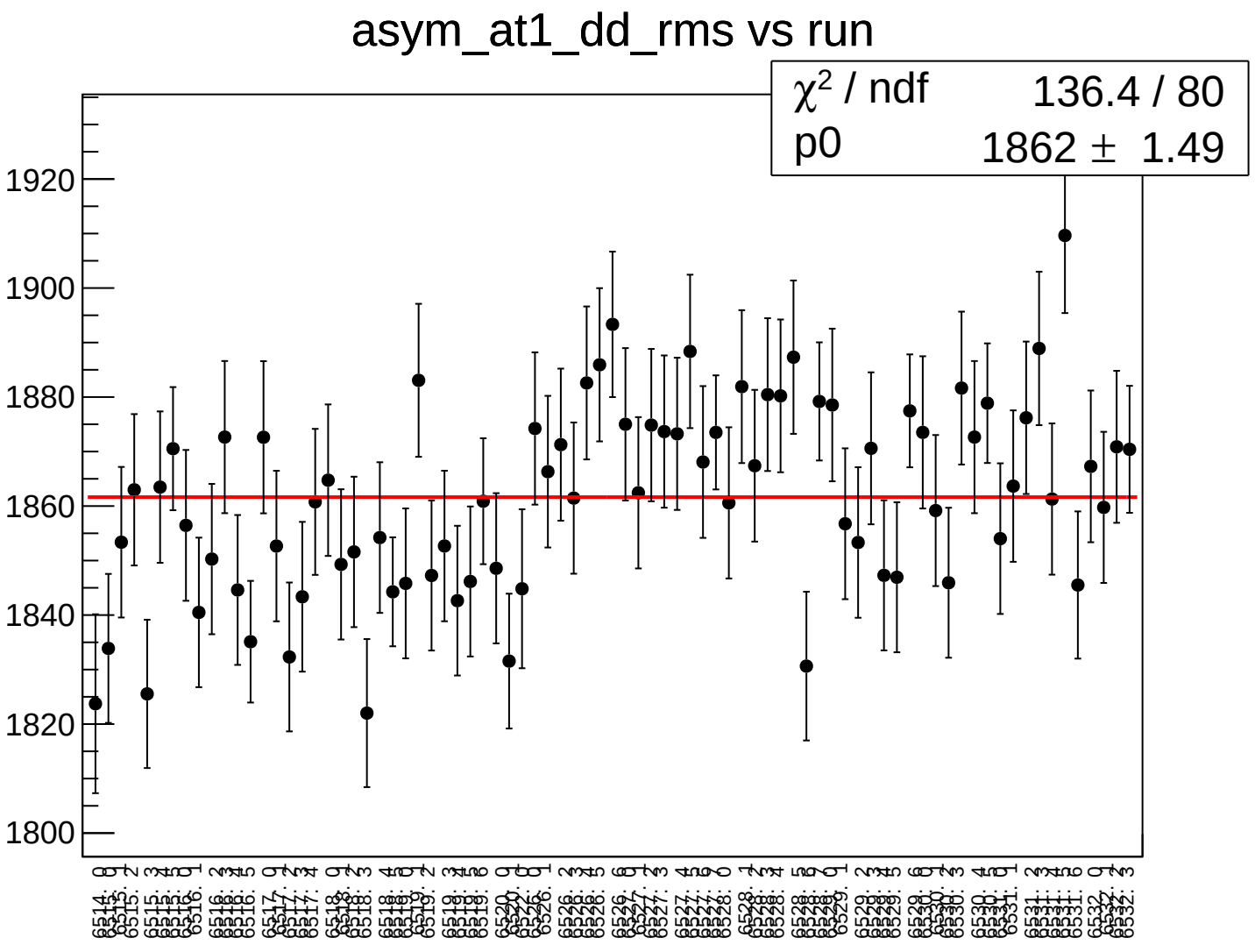

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 71.65 / 80
p0 −375.9 ± 523.4
pull
Entries 81
Mean −1118
Std Dev 0

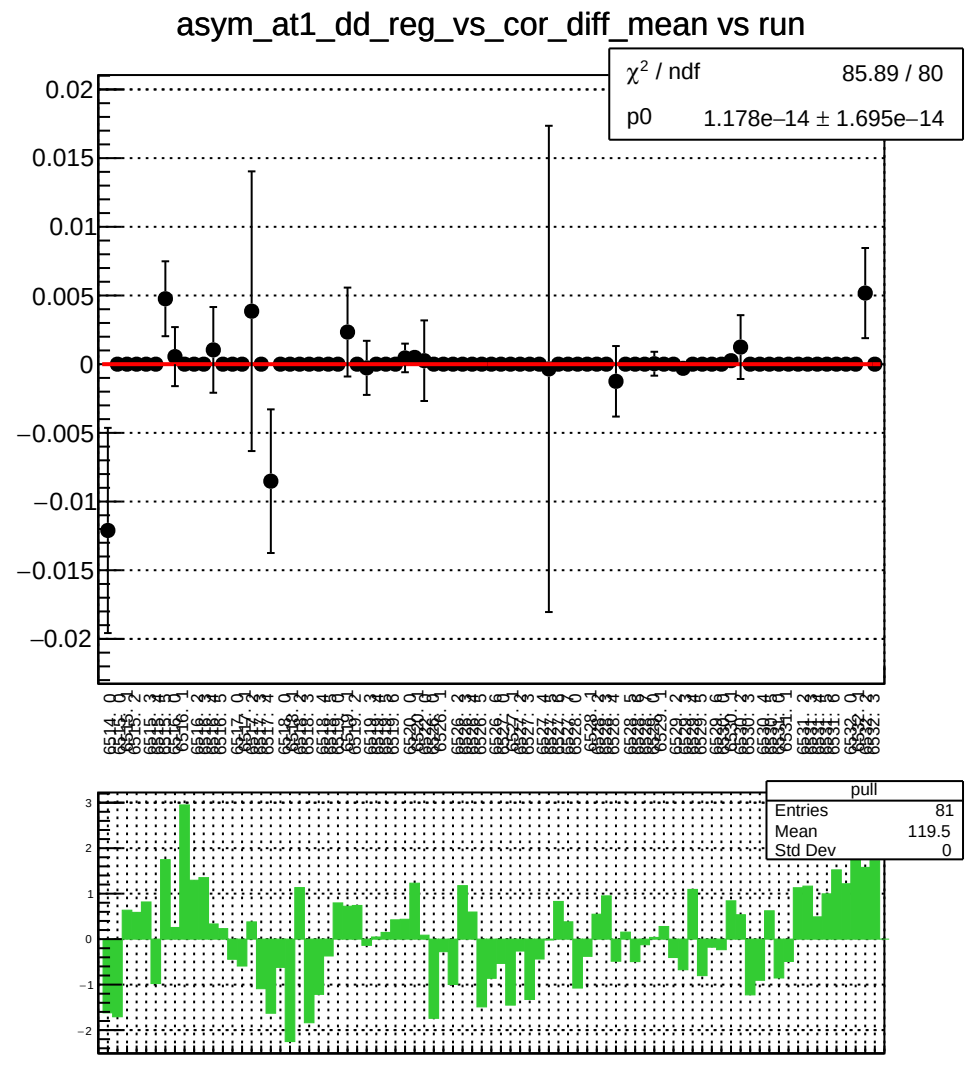

pull1D
Entries 81
Mean 0.004247
Std Dev 0.9405

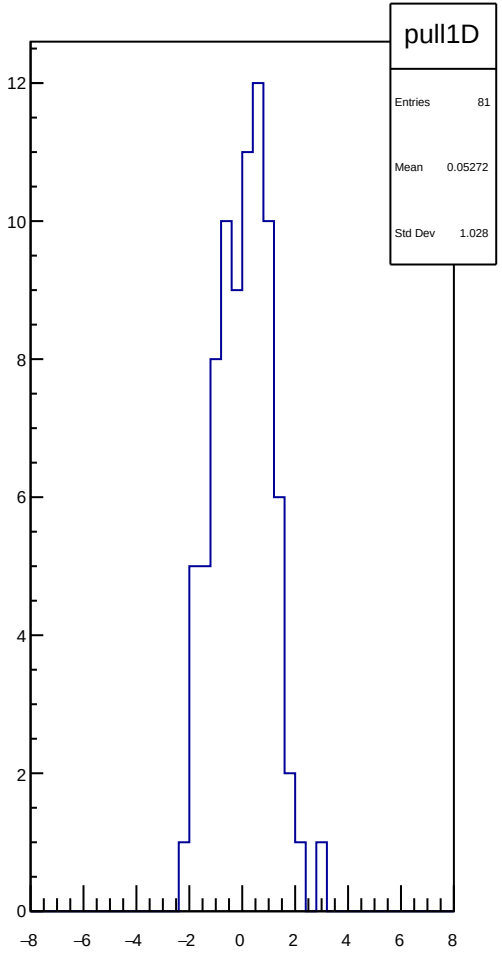

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.048e+04 / 80
p0 457.9 ± 0.3701
550
500
450
400
350

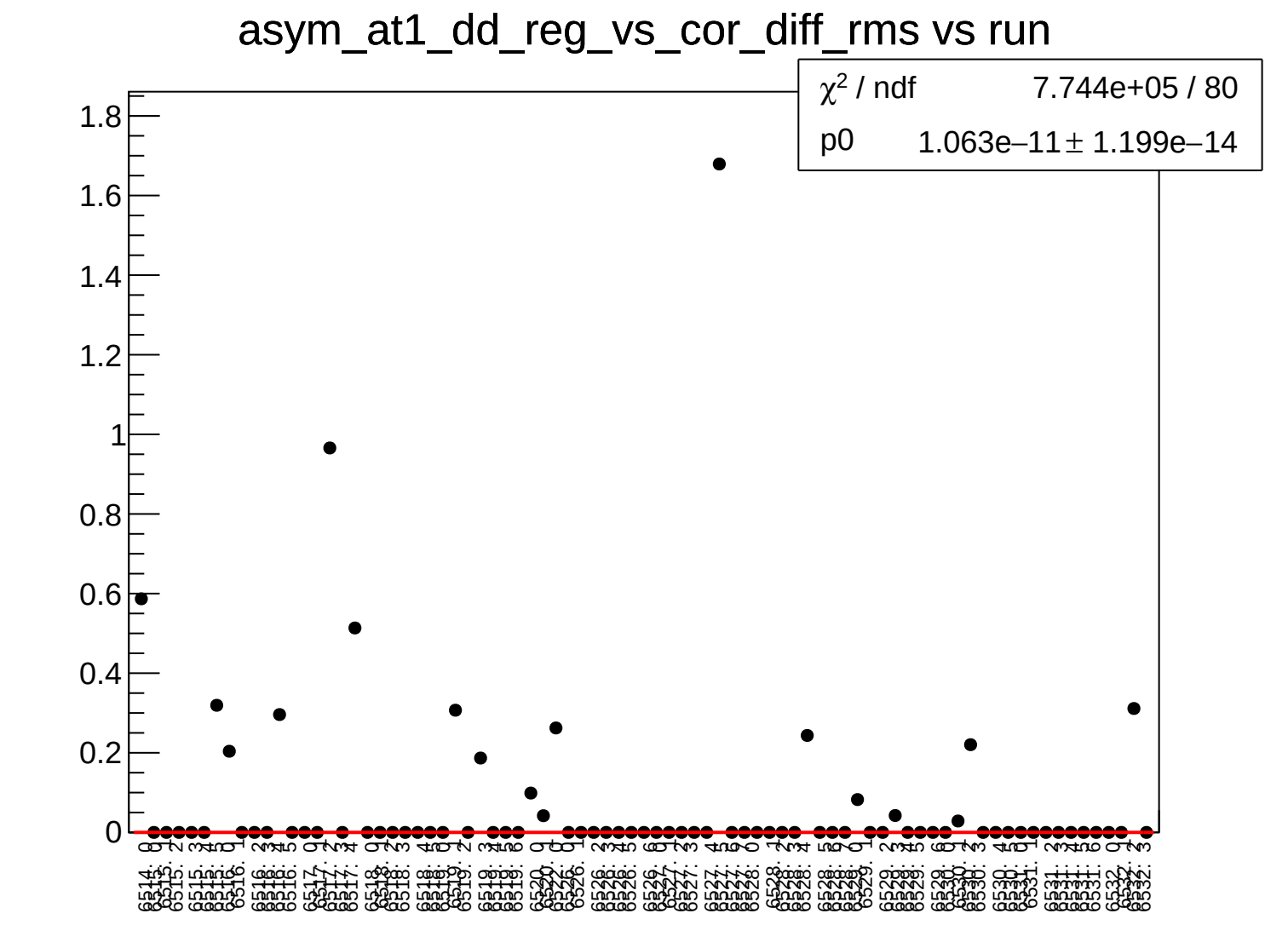

asym_at1_dd_mean vs run
χ² / ndf 79.7 / 80
p0 3032 ± 2107
pull
Entries 81
Mean −328.8
Std Dev 0

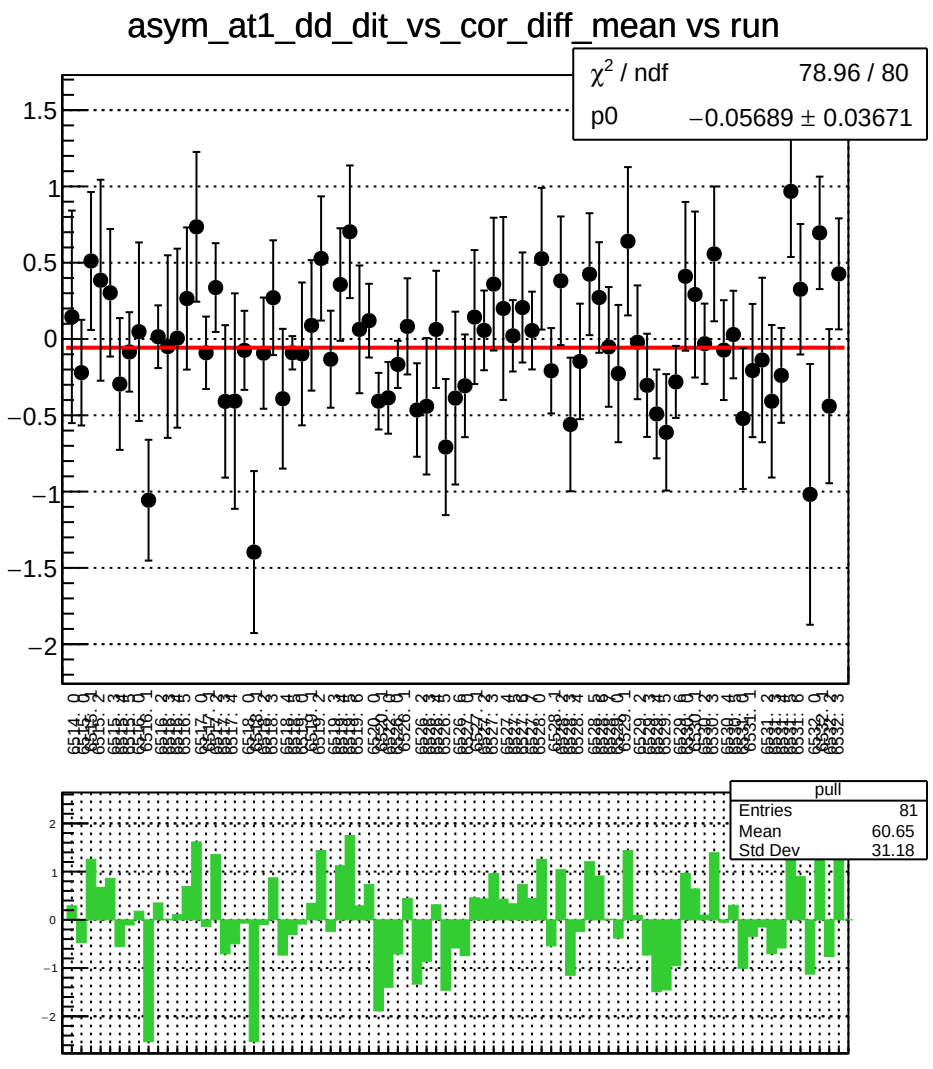

pull1D
Entries 81
Mean −0.008573
Std Dev 0.9919

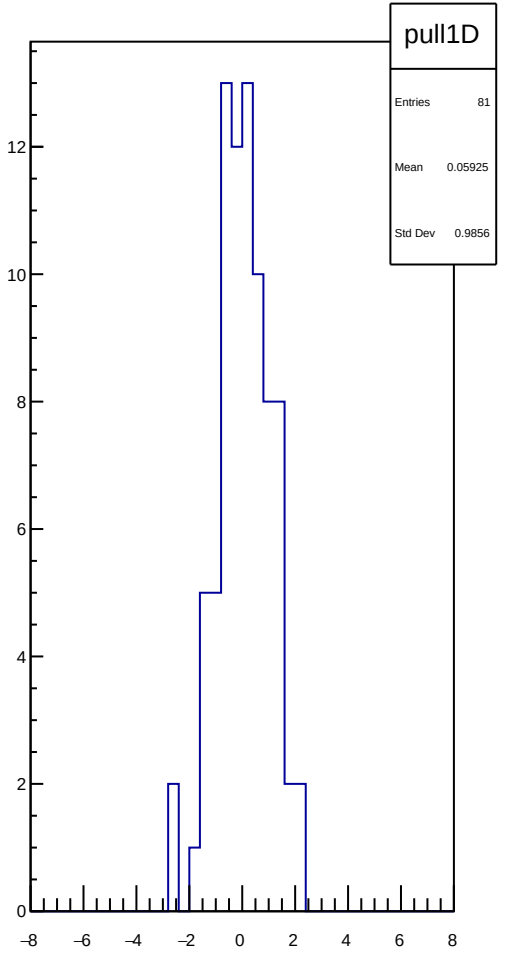

asym_at1_dd_rms vs run
χ² / ndf 136.4 / 80
p0 1862 ± 1.49
1920
1900
1880
1860
1840
1820
1800

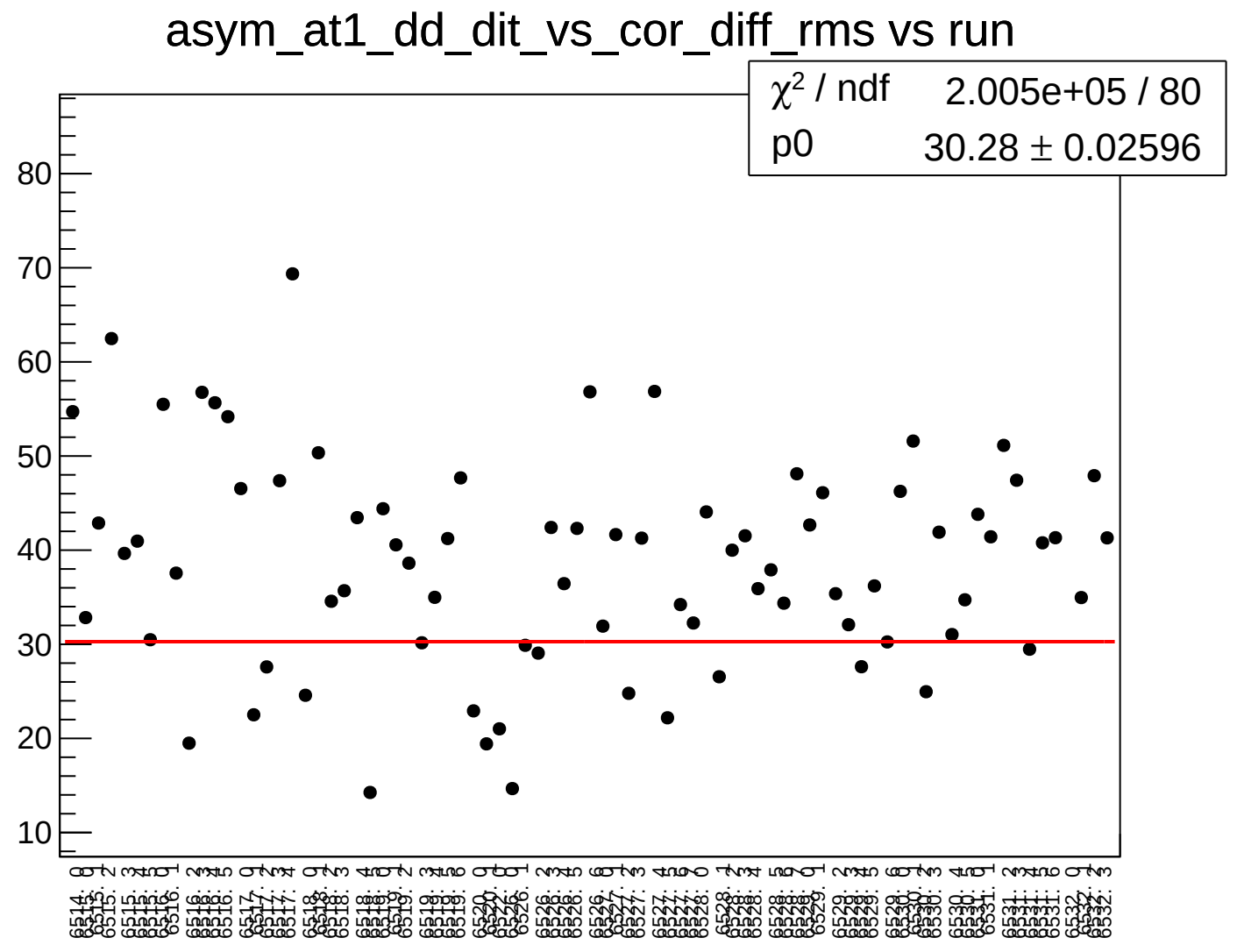

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 85.89 / 80
p0 1.178e−14 ± 1.695e−14
pull
Entries 81
Mean 119.5
Std Dev 0

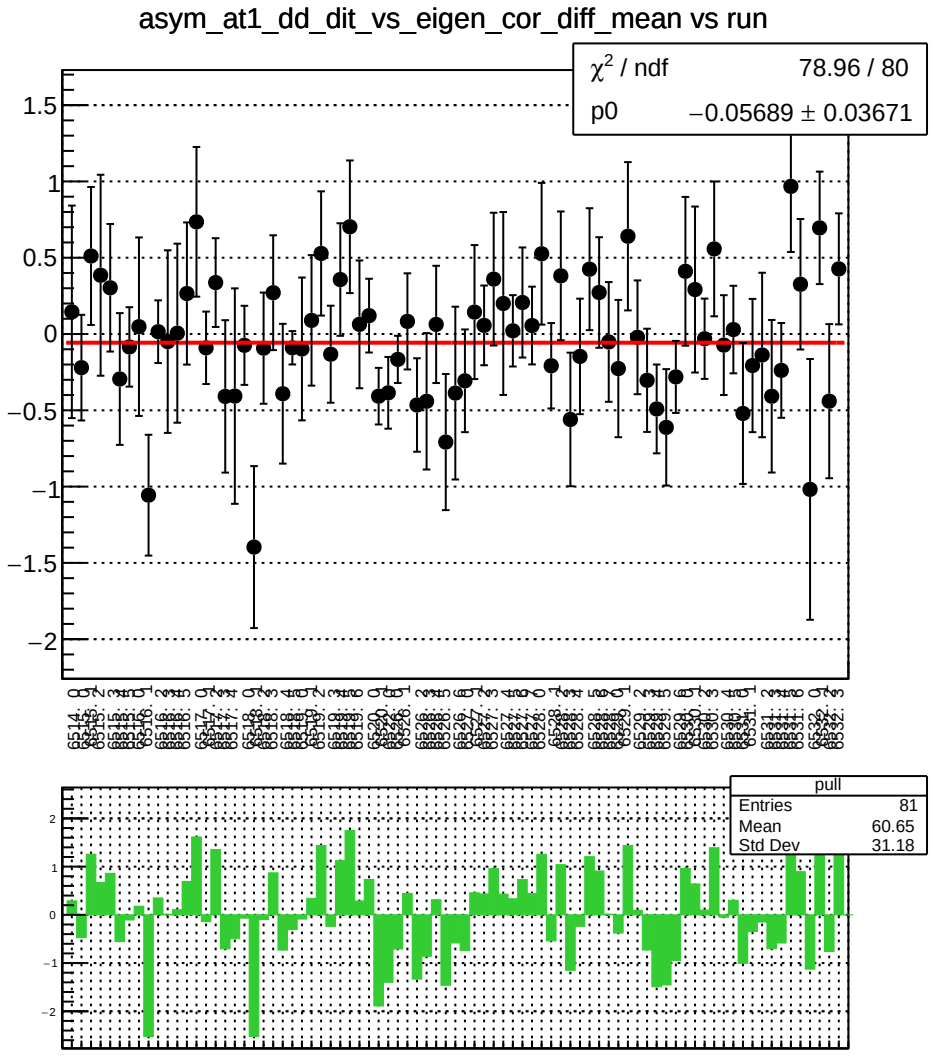

pull1D
Entries 81
Mean 0.05272
Std Dev 1.028

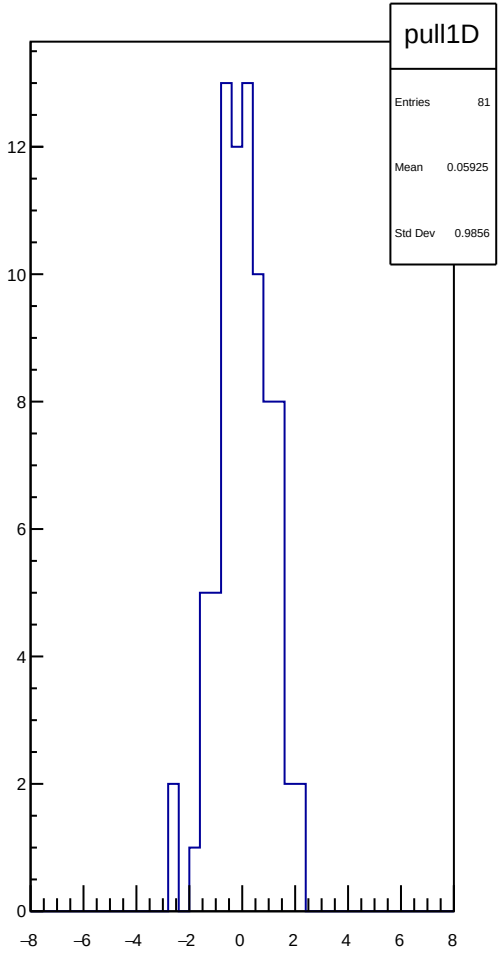

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.744e+05 / 80
p0 1.063e−11 ± 1.199e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

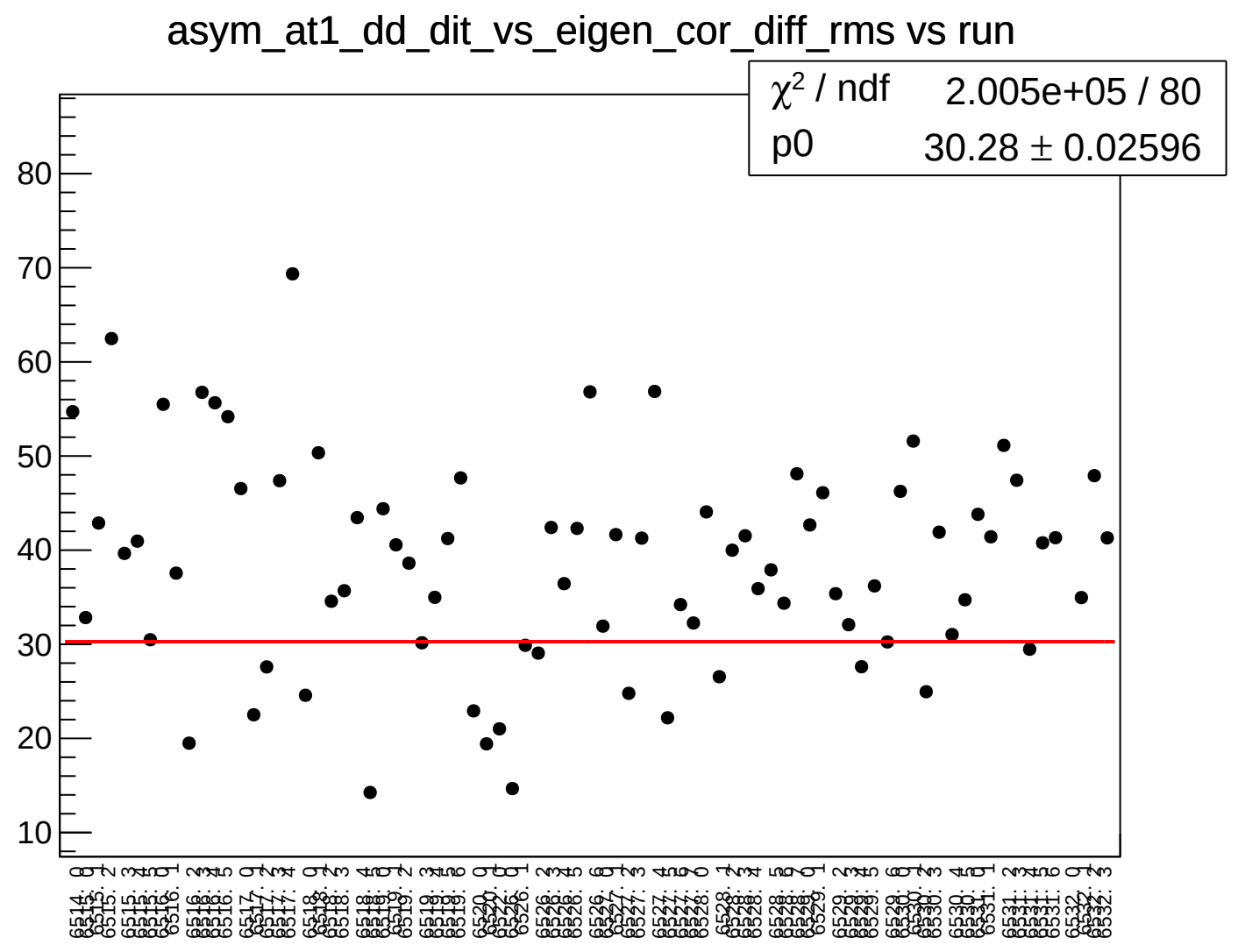

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 78.96 / 80
p0 −0.05689 ± 0.03671
pull
Entries 81
Mean 60.65
Std Dev 31.18

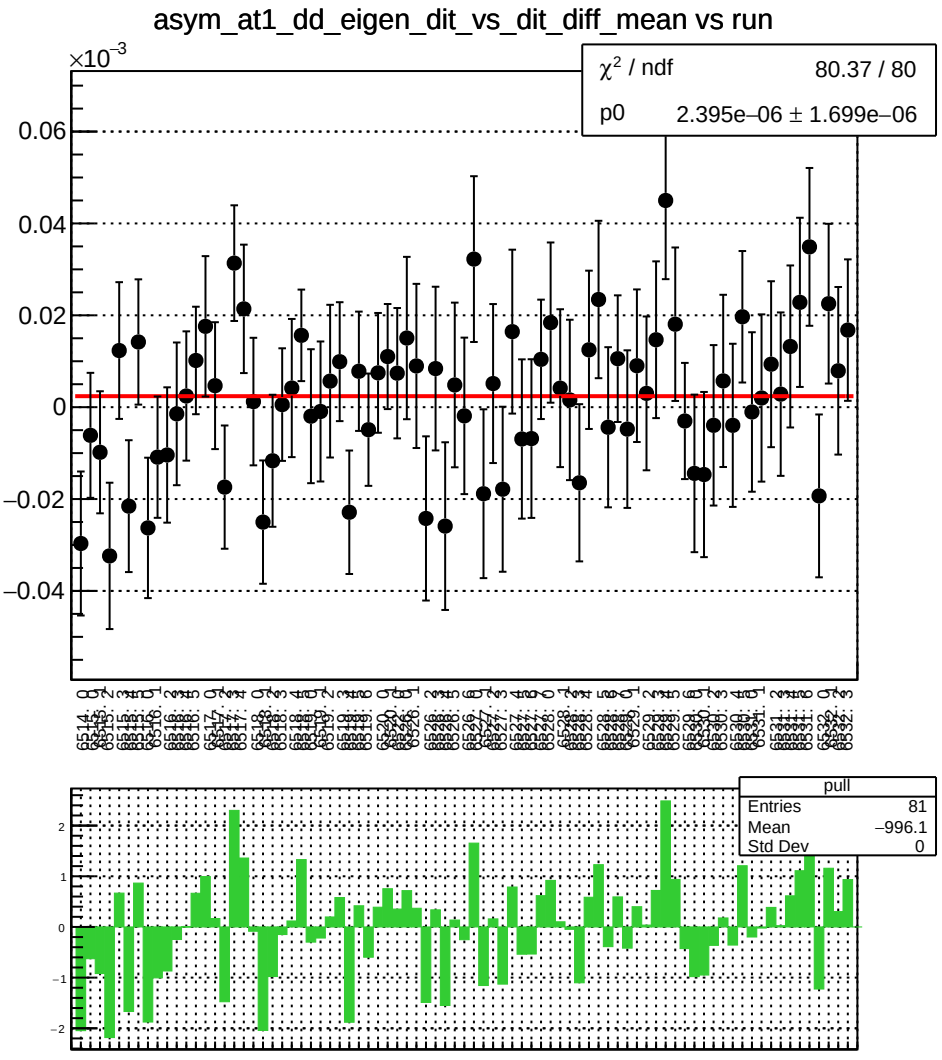

pull1D
Entries 81
Mean 0.05925
Std Dev 0.9856

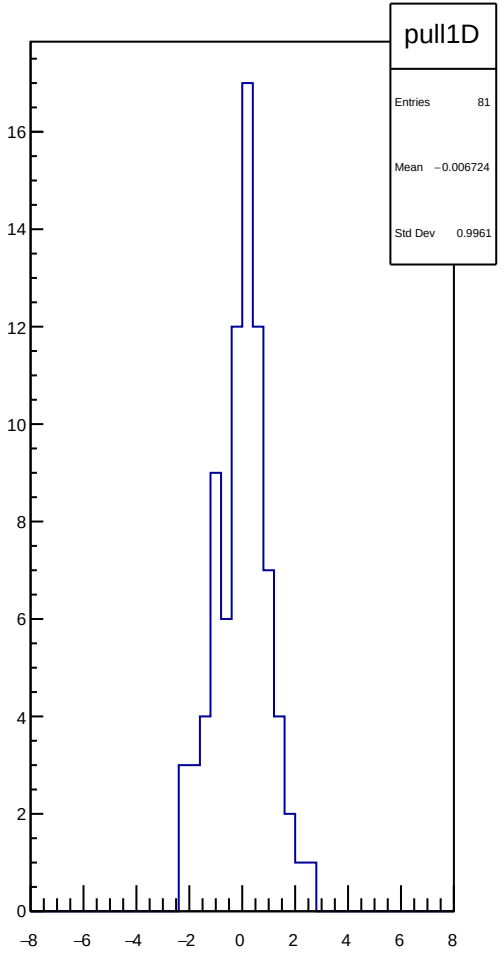

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.005e+05 / 80
p0 30.28 ± 0.02596
80
70
60
50
40
30
20
10

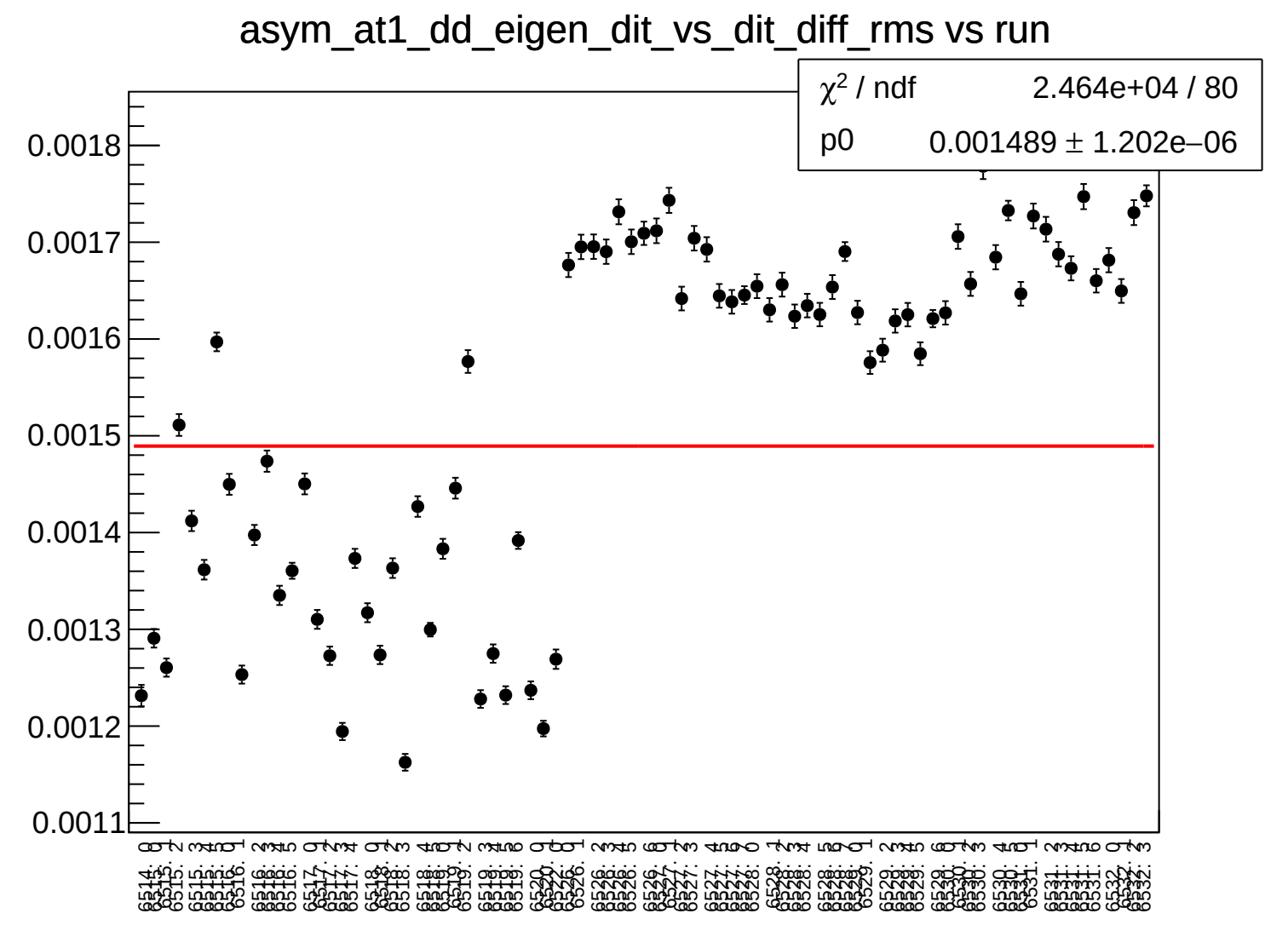

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.96 / 80
p0 −0.05689 ± 0.03671
pull
Entries 81
Mean 60.65
Std Dev 31.18

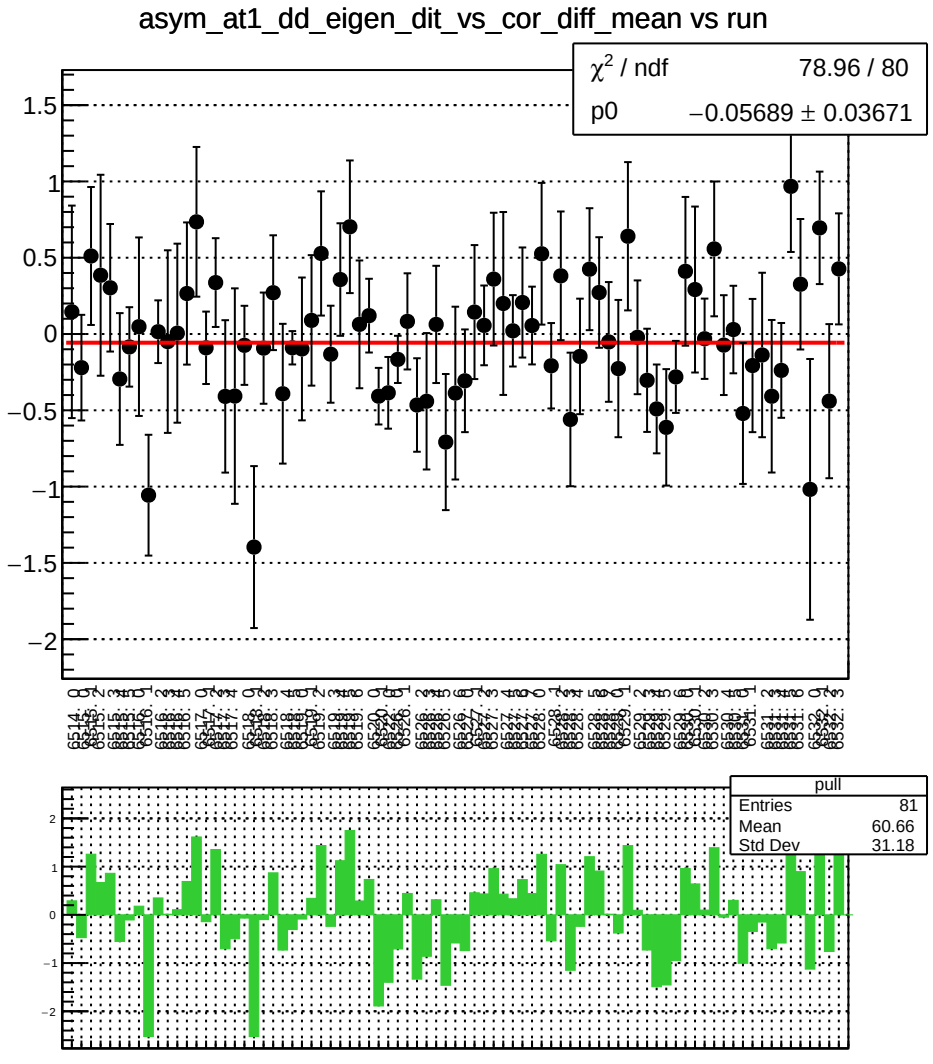

pull1D
Entries 81
Mean 0.05925
Std Dev 0.9856

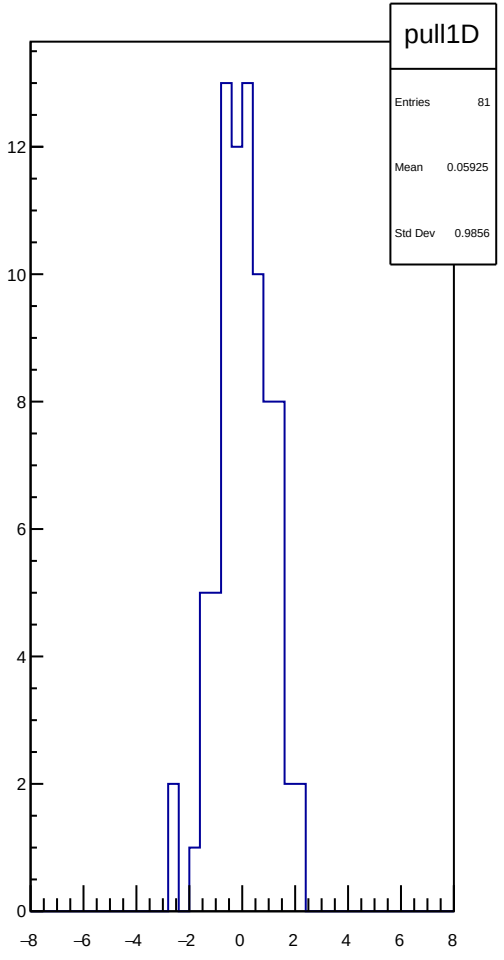

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.005e+05 / 80
p0 30.28 ± 0.02596
80
70
60
50
40
30
20
10

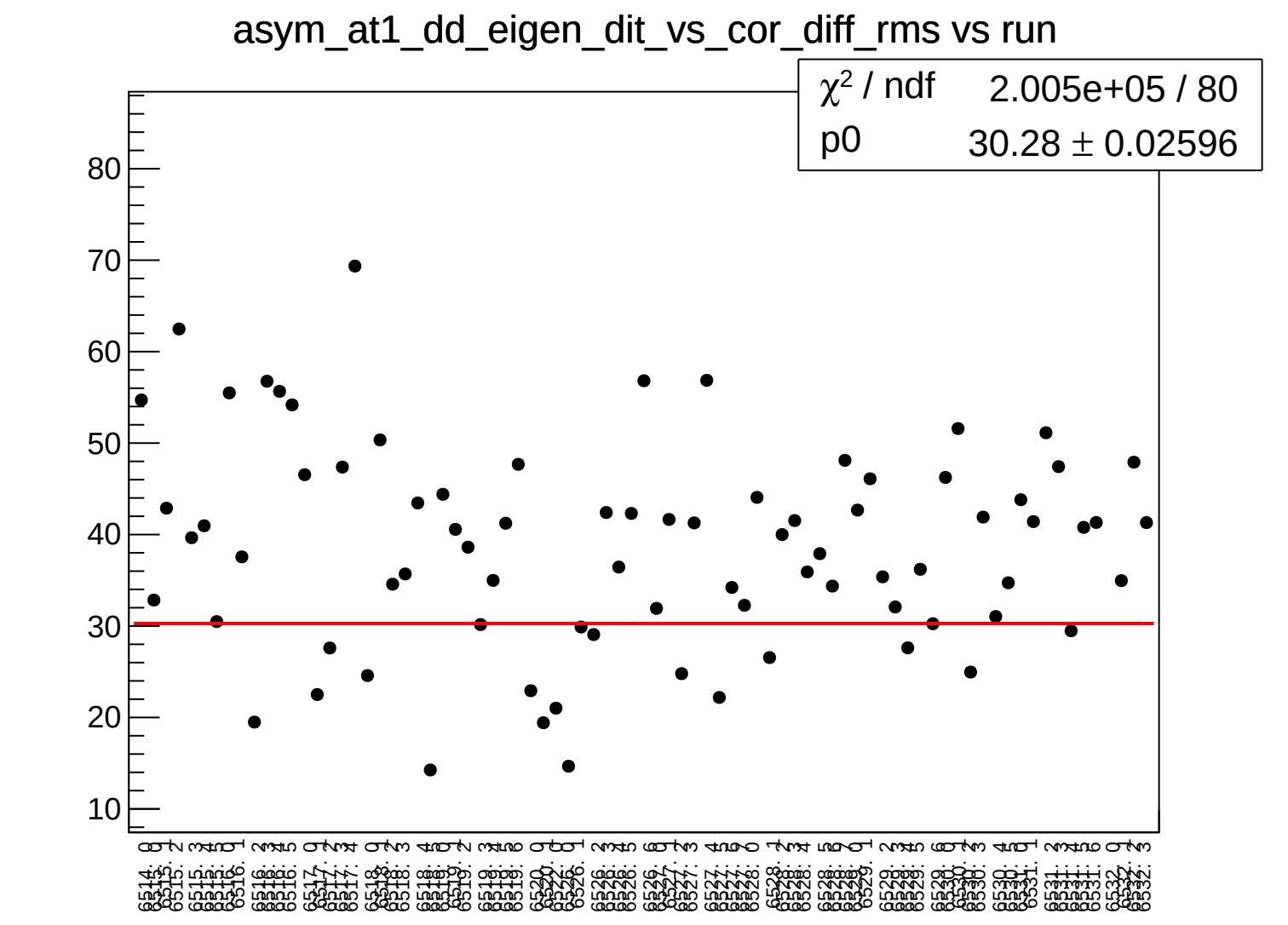

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.37 / 80
p0 2.395e−06 ± 1.699e−06
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 81
Mean −996.1
Std Dev 0
2
1
0
−1
−2

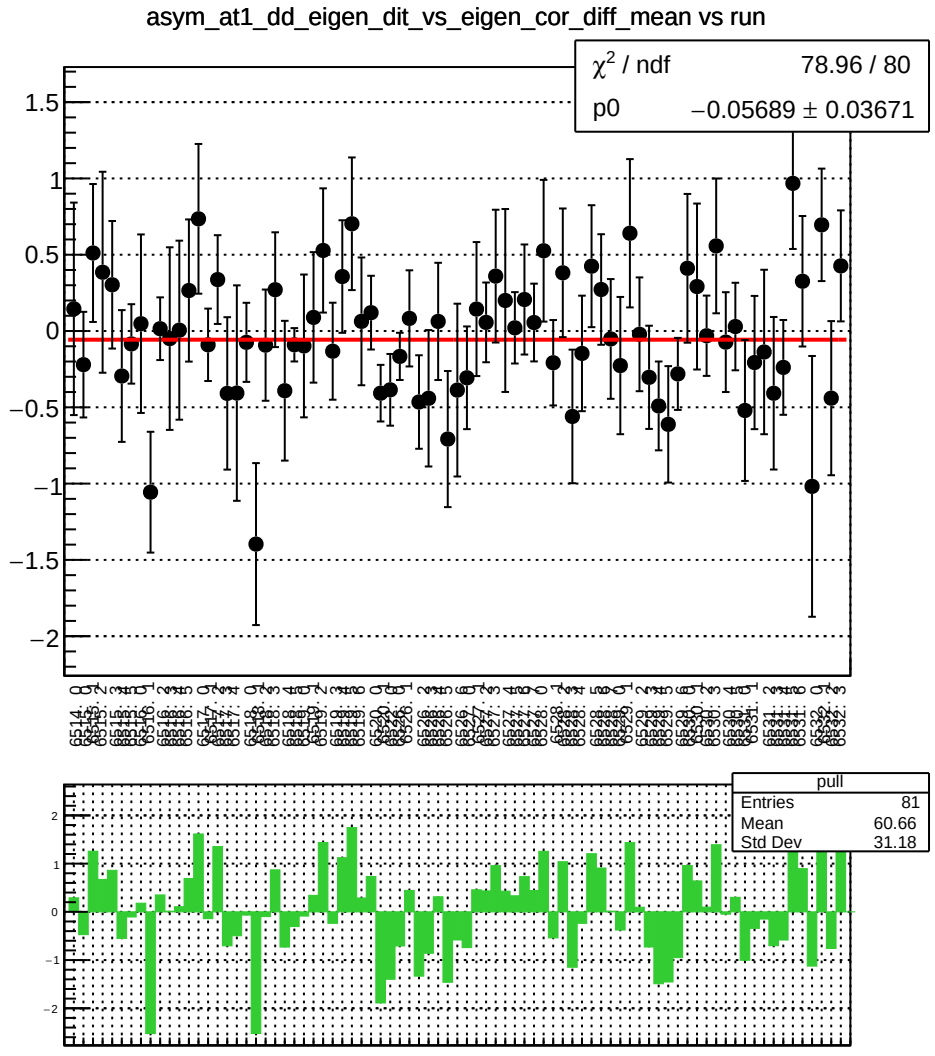

pull1D
Entries 81
Mean −0.006724
Std Dev 0.9961
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

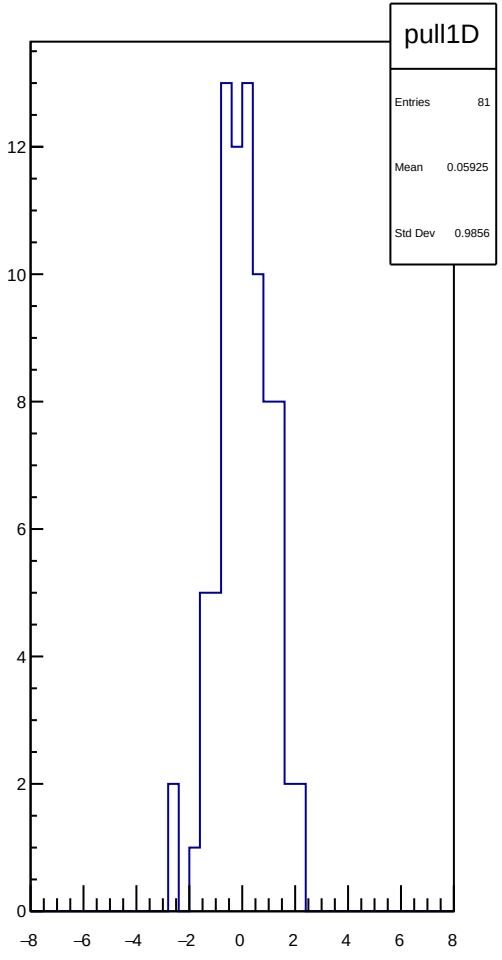

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.464e+04 / 80
p0 0.001489 ± 1.202e−06
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012
0.0011

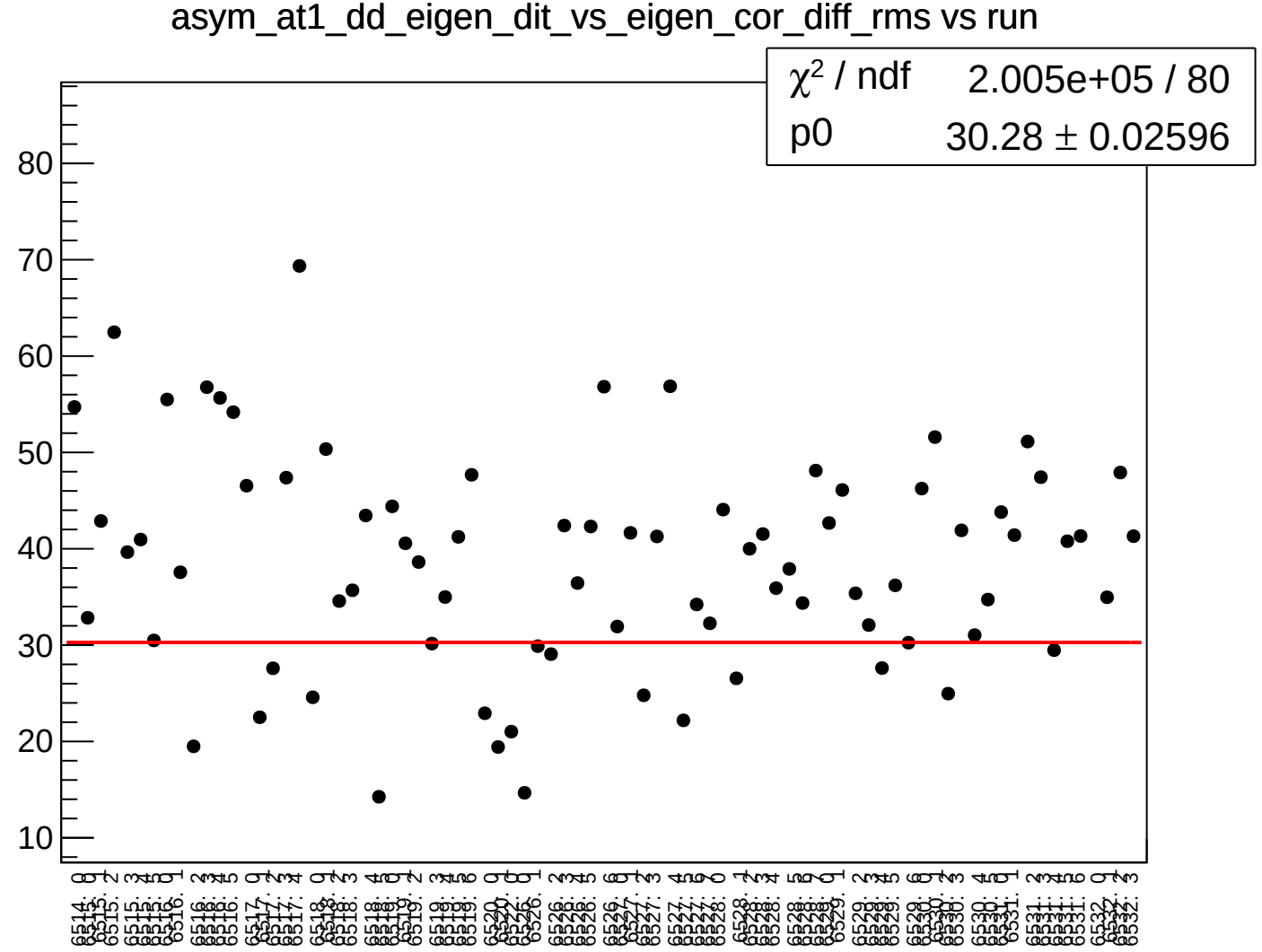

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.96 / 80
p0 −0.05689 ± 0.03671
pull
Entries 81
Mean 60.66
Std Dev 31.18

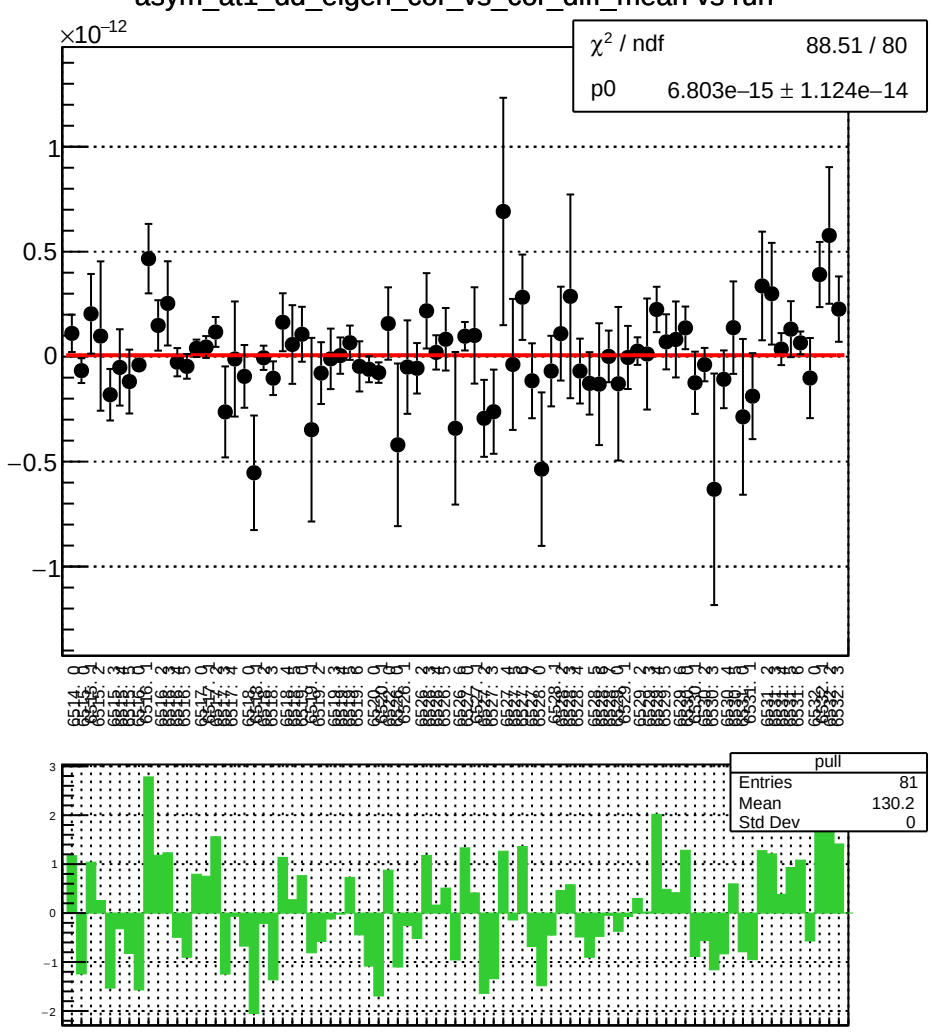

pull1D
Entries 81
Mean 0.05925
Std Dev 0.9856

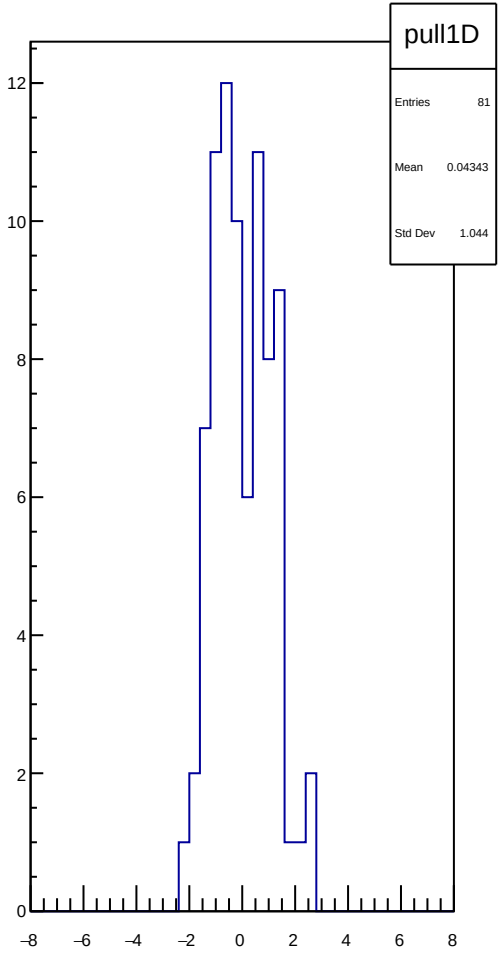

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.005e+05 / 80
p0 30.28 ± 0.02596
80
70
60
50
40
30
20
10

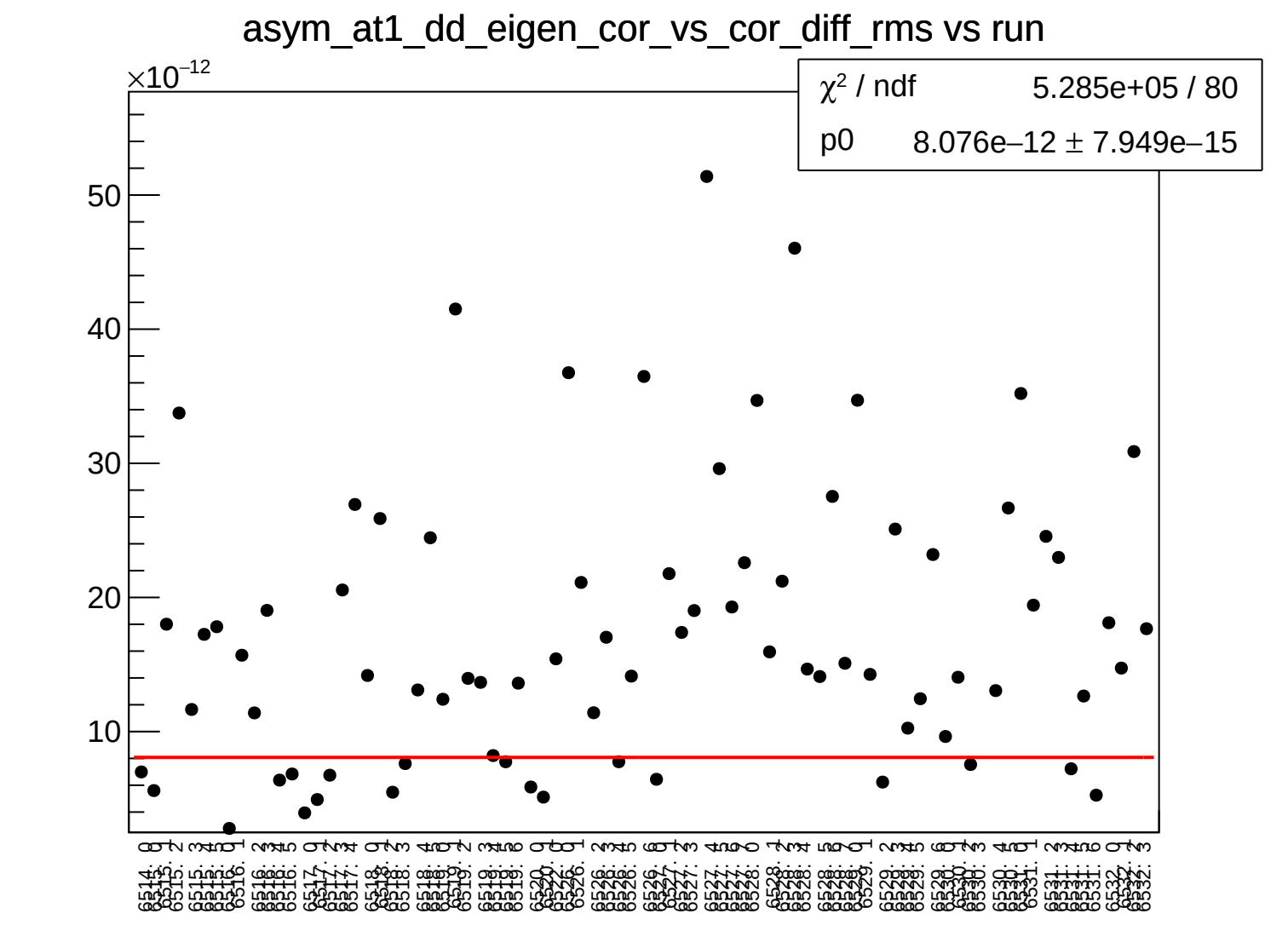

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.96 / 80
p0 −0.05689 ± 0.03671
pull
Entries 81
Mean 60.66
Std Dev 31.18

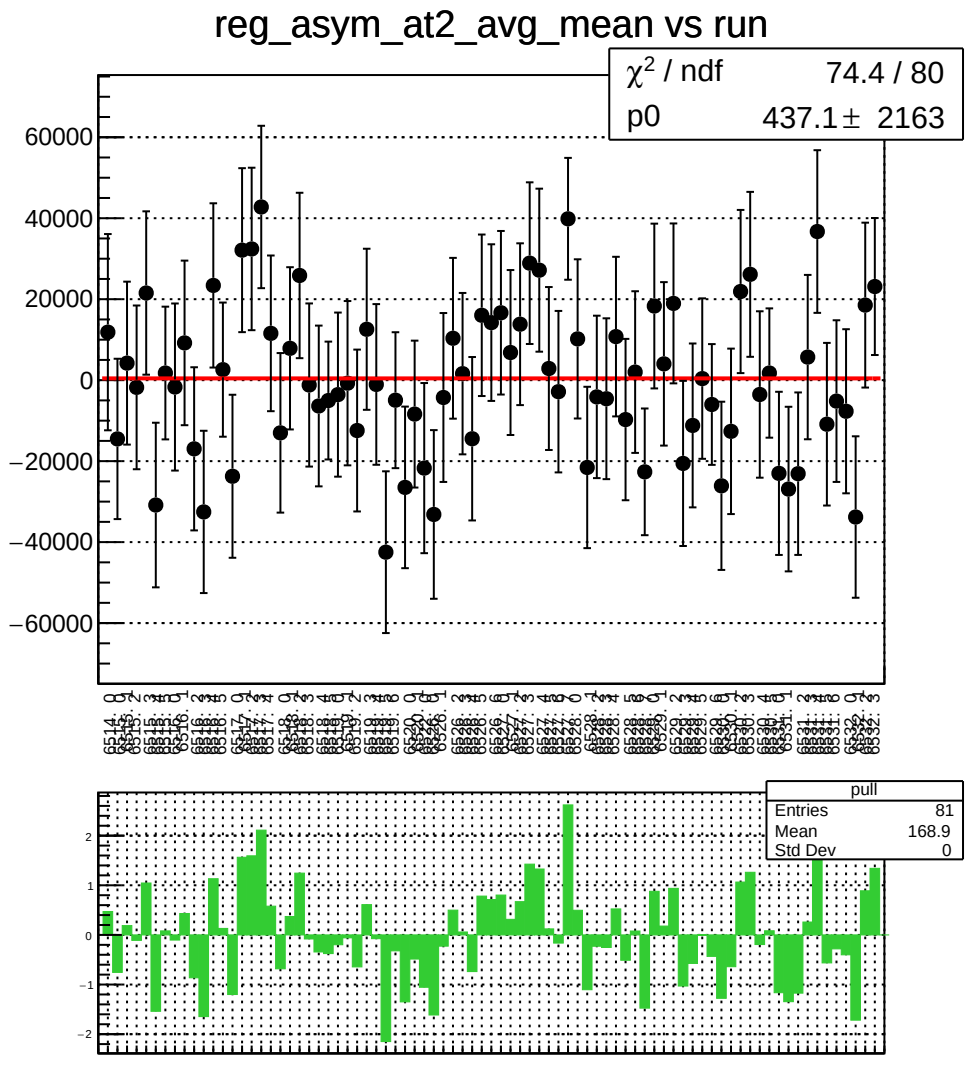

pull1D
Entries 81
Mean 0.05925
Std Dev 0.9856

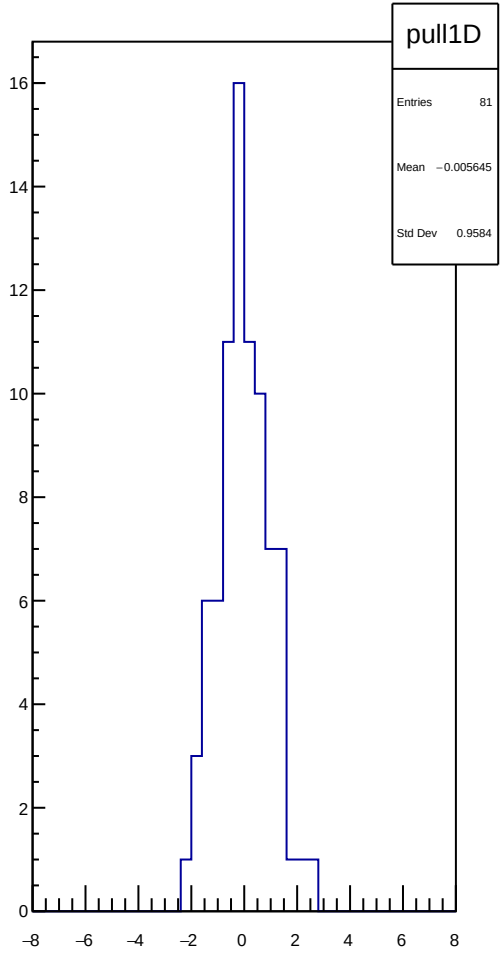

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.005e+05 / 80
p0 30.28 ± 0.02596
80
70
60
50
40
30
20
10

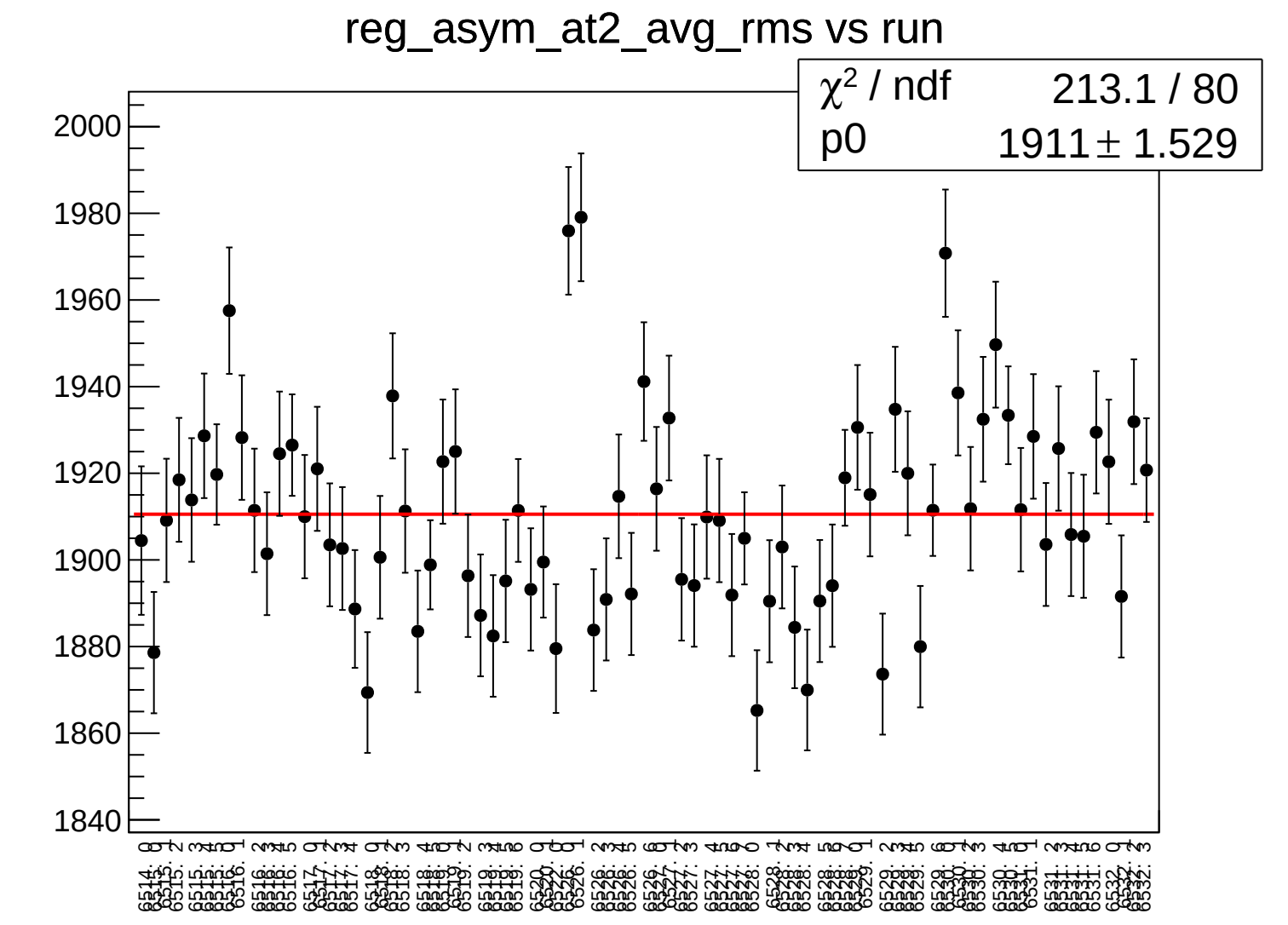

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.51 / 80
p0 6.803e−15 ± 1.124e−14
pull
Entries 81
Mean 130.2
Std Dev 0

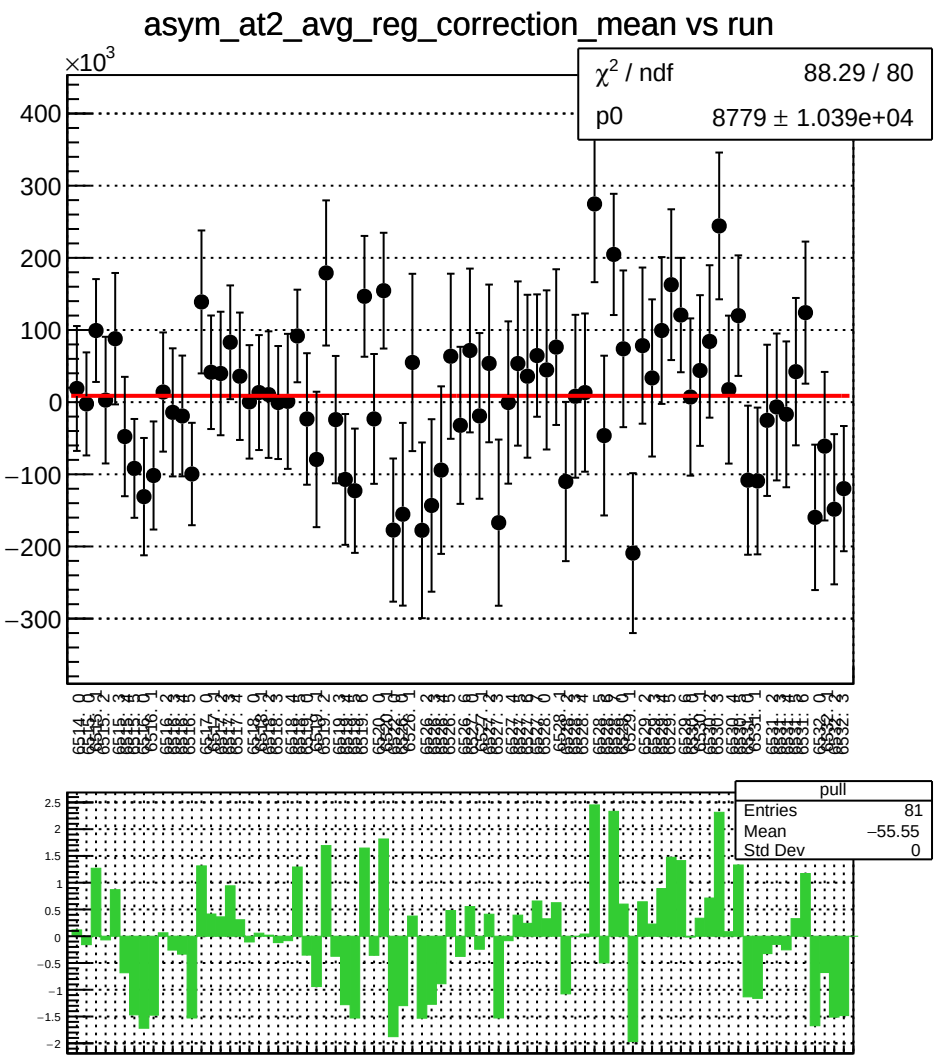

pull1D
Entries 81
Mean 0.04343
Std Dev 1.044

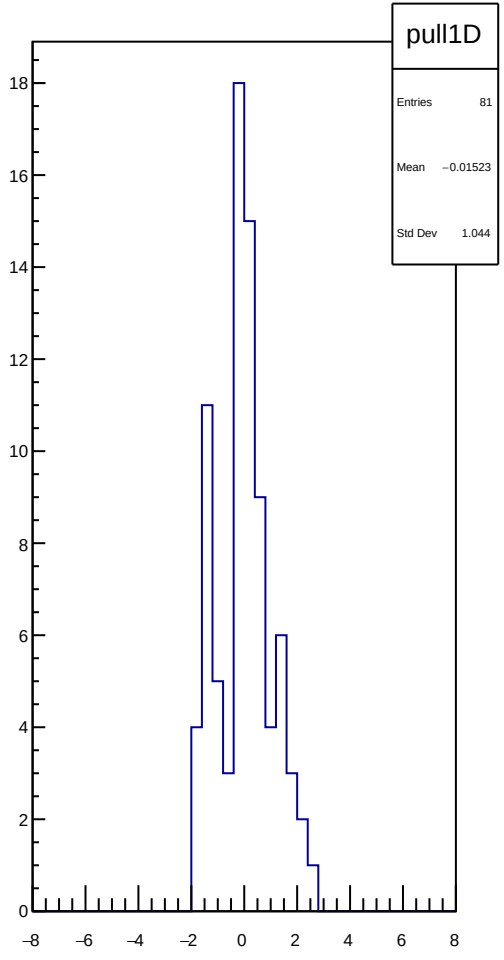

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.285e+05 / 80
p0 8.076e−12 ± 7.949e−15
50
40
30
20
10

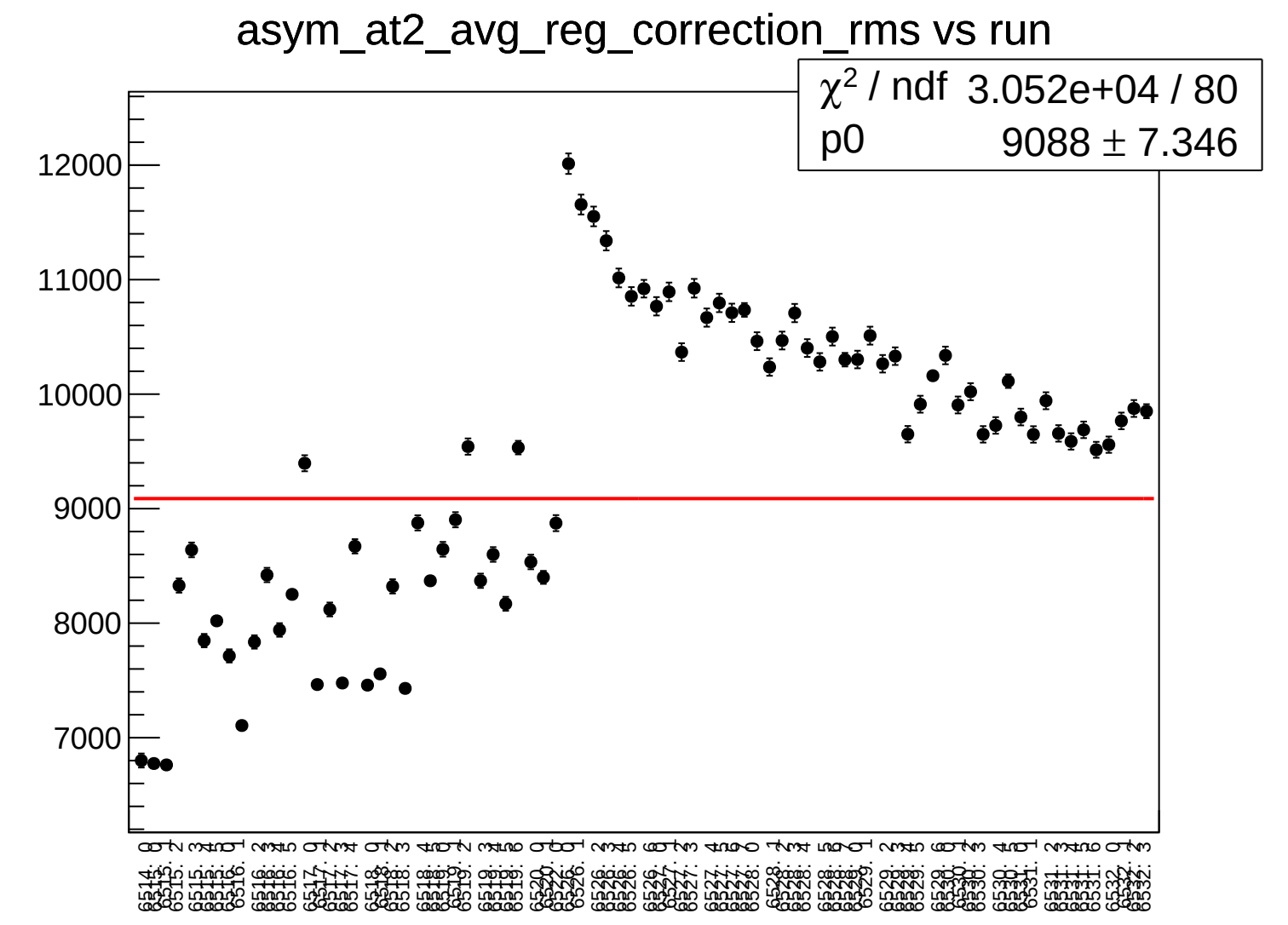

reg_asym_at2_avg_mean vs run
χ² / ndf 74.4 / 80
p0 437.1 ± 2163
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean 168.9
Std Dev 0
2
1
0
−1
−2

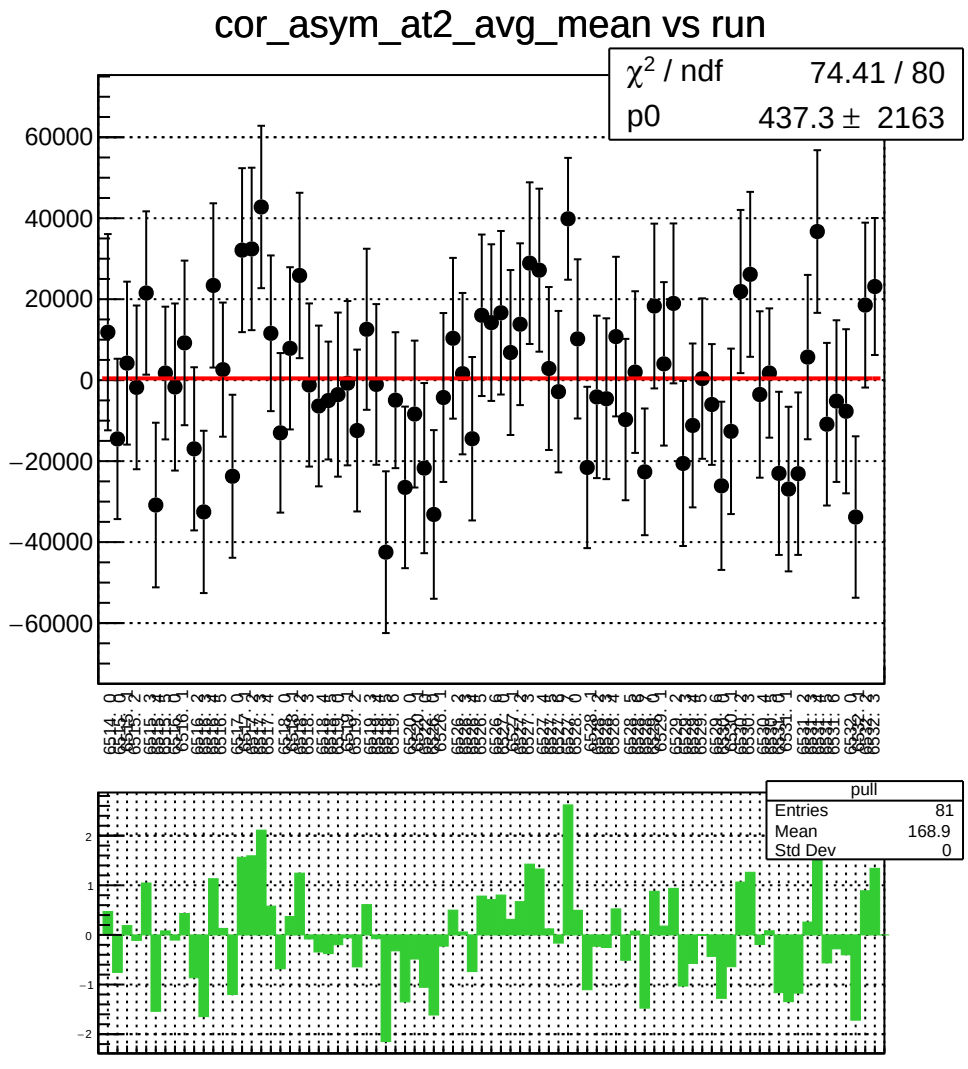

pull1D
Entries 81
Mean −0.005645
Std Dev 0.9584
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

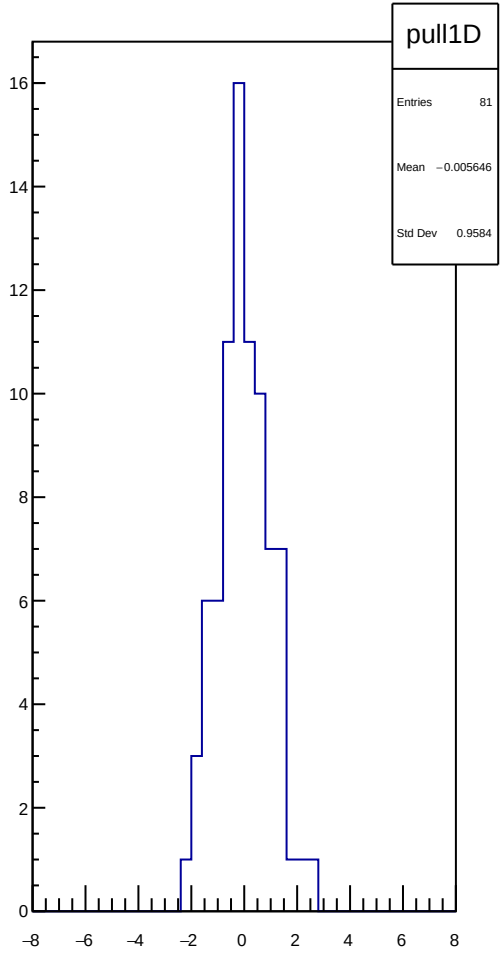

reg_asym_at2_avg_rms vs run
χ² / ndf 213.1 / 80
p0 1911 ± 1.529
2000
1980
1960
1940
1920
1900
1880
1860
1840

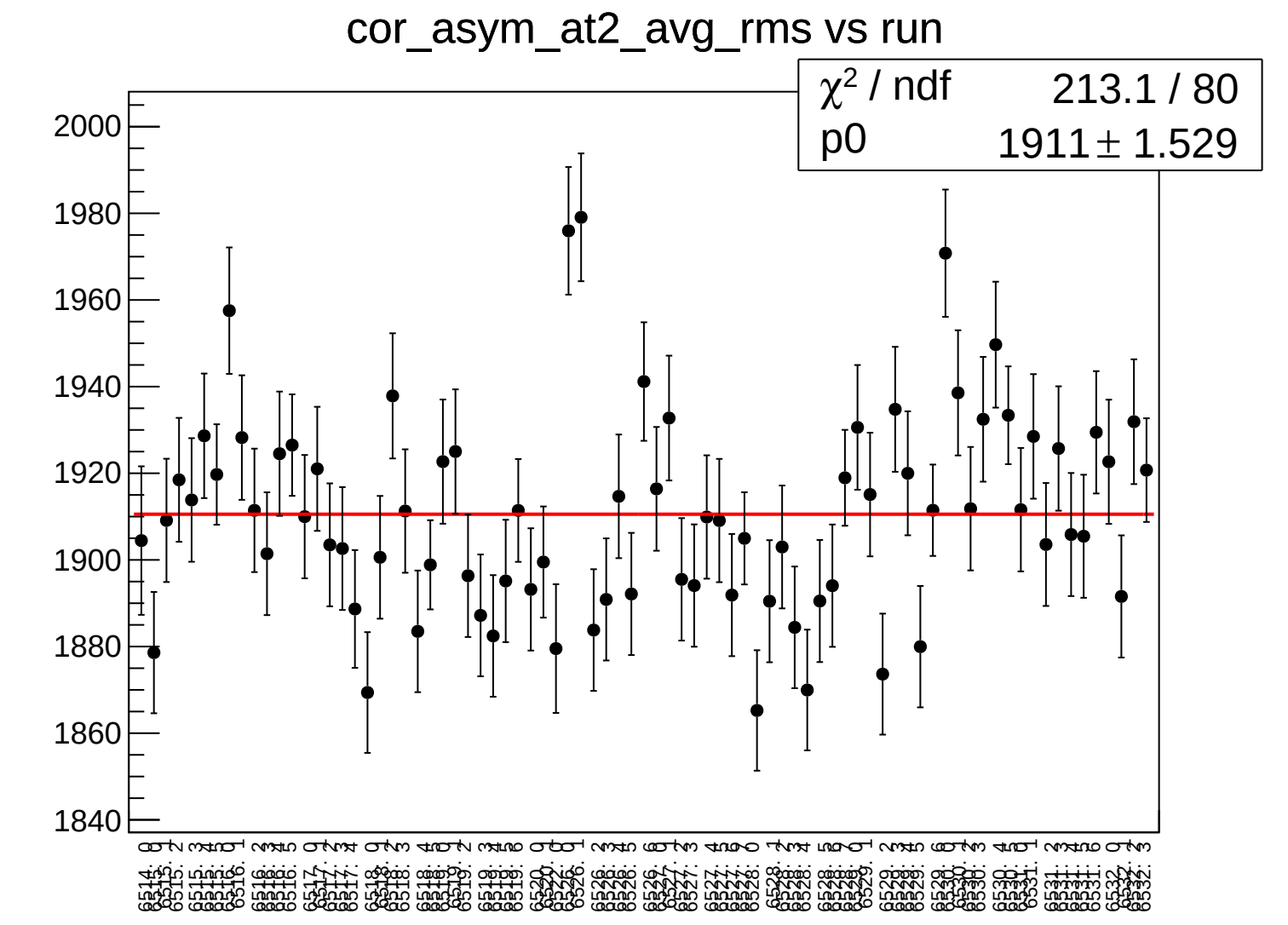

asym_at2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 88.29 / 80
p0 8779 ± 1.039e+04
pull
Entries 81
Mean −55.55
Std Dev 0

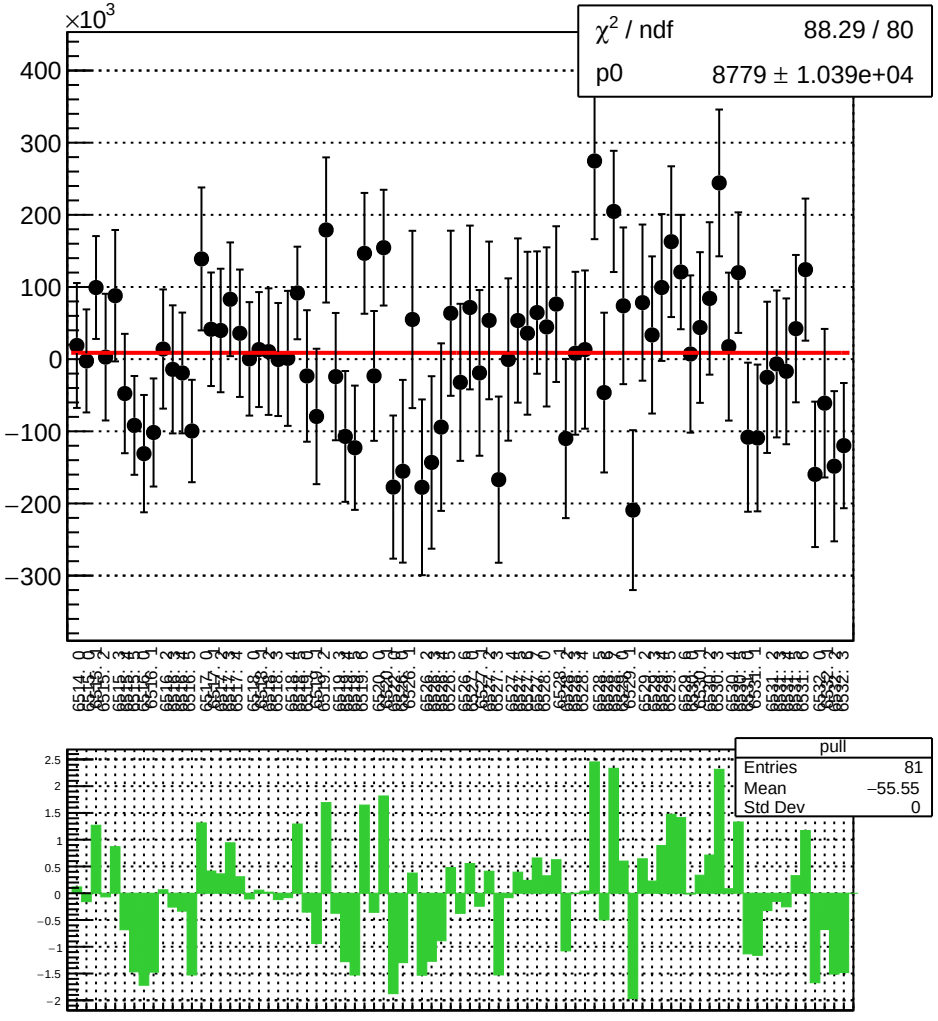

pull1D
Entries 81
Mean −0.01523
Std Dev 1.044

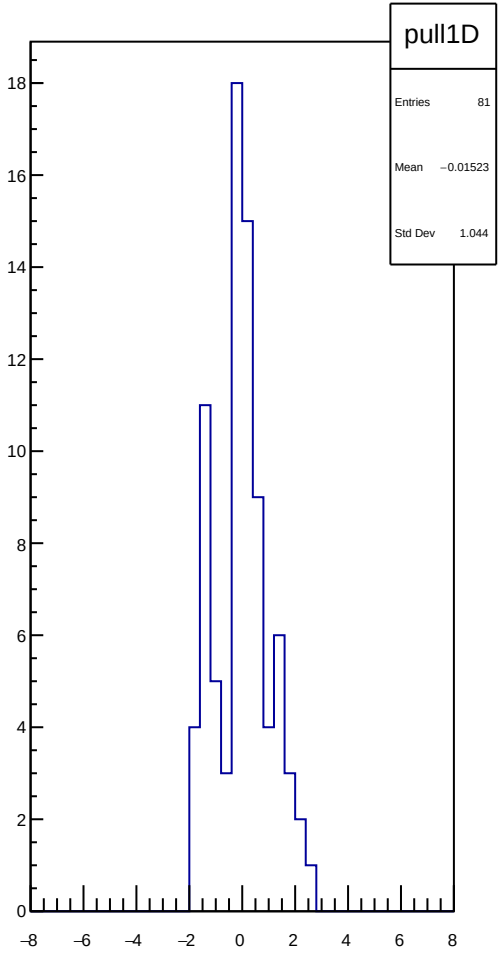

asym_at2_avg_reg_correction_rms vs run
χ² / ndf 3.052e+04 / 80
p0 9088 ± 7.346
12000
11000
10000
9000
8000
7000

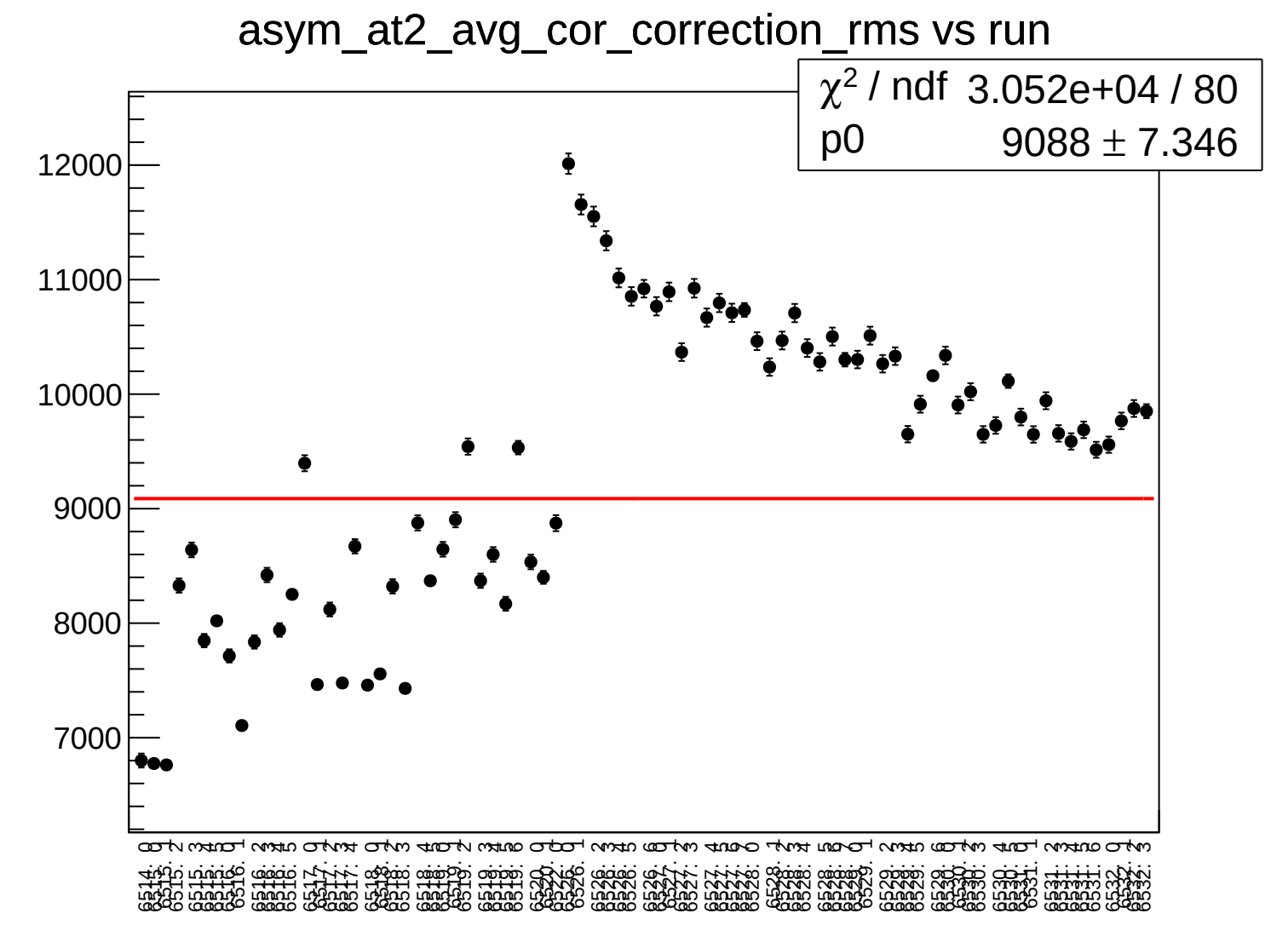

cor_asym_at2_avg_mean vs run
χ² / ndf 74.41 / 80
p0 437.3 ± 2163
pull
Entries 81
Mean 168.9
Std Dev 0

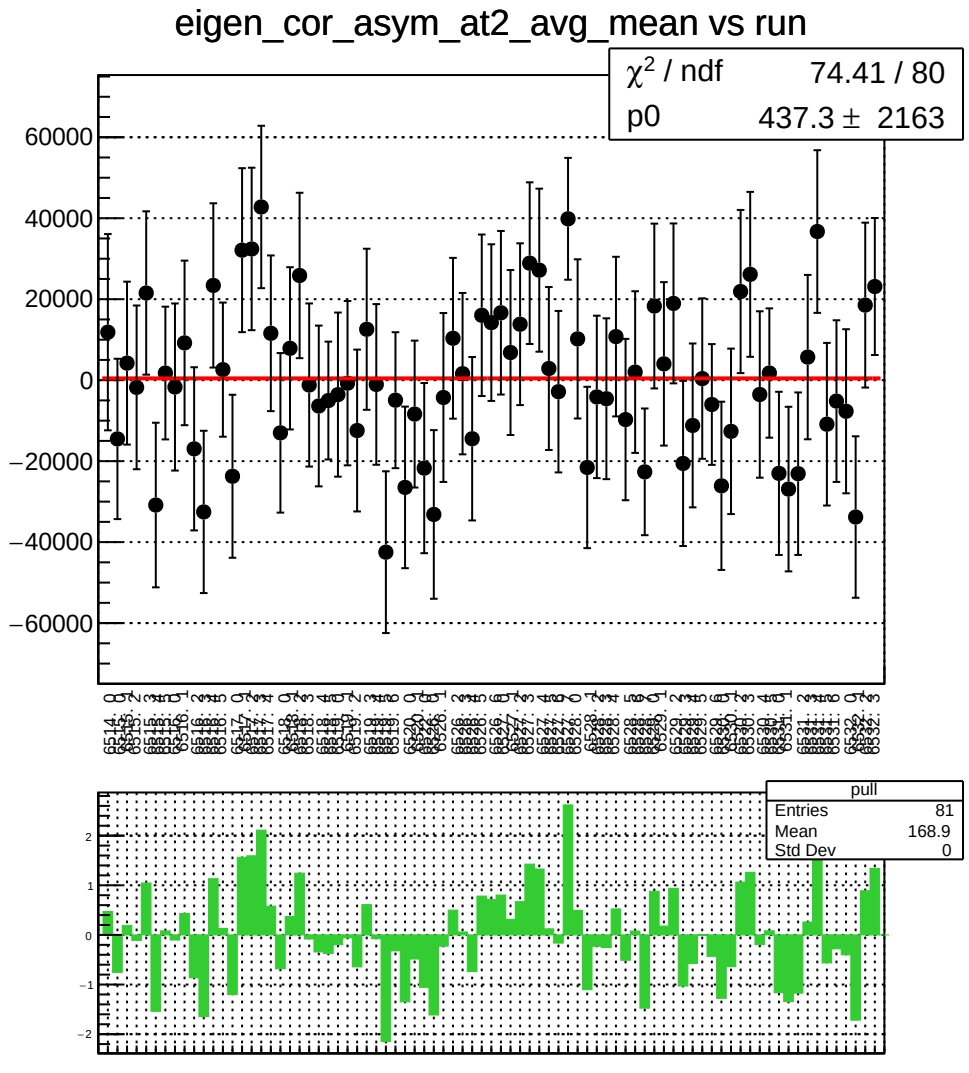

pull1D
Entries 81
Mean −0.005646
Std Dev 0.9584

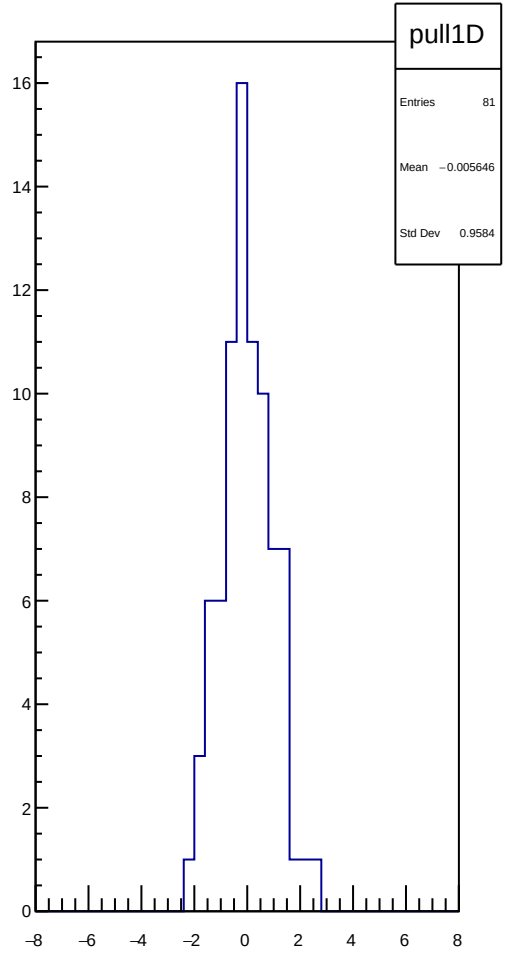

cor_asym_at2_avg_rms vs run
χ² / ndf 213.1 / 80
p0 1911 ± 1.529
2000
1980
1960
1940
1920
1900
1880
1860
1840

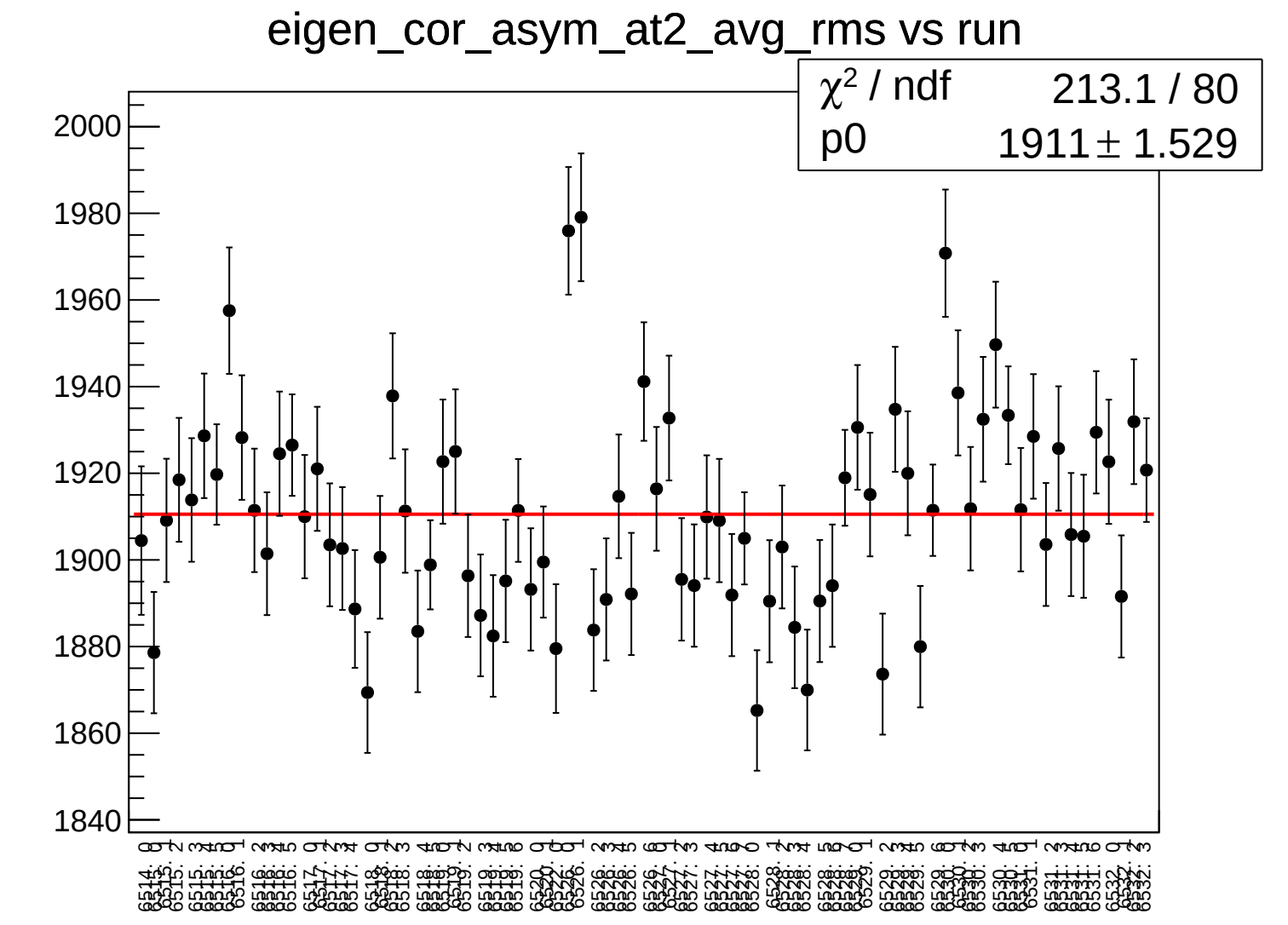

asym_at2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 88.29 / 80
p0 8779 ± 1.039e+04
pull
Entries 81
Mean −55.55
Std Dev 0

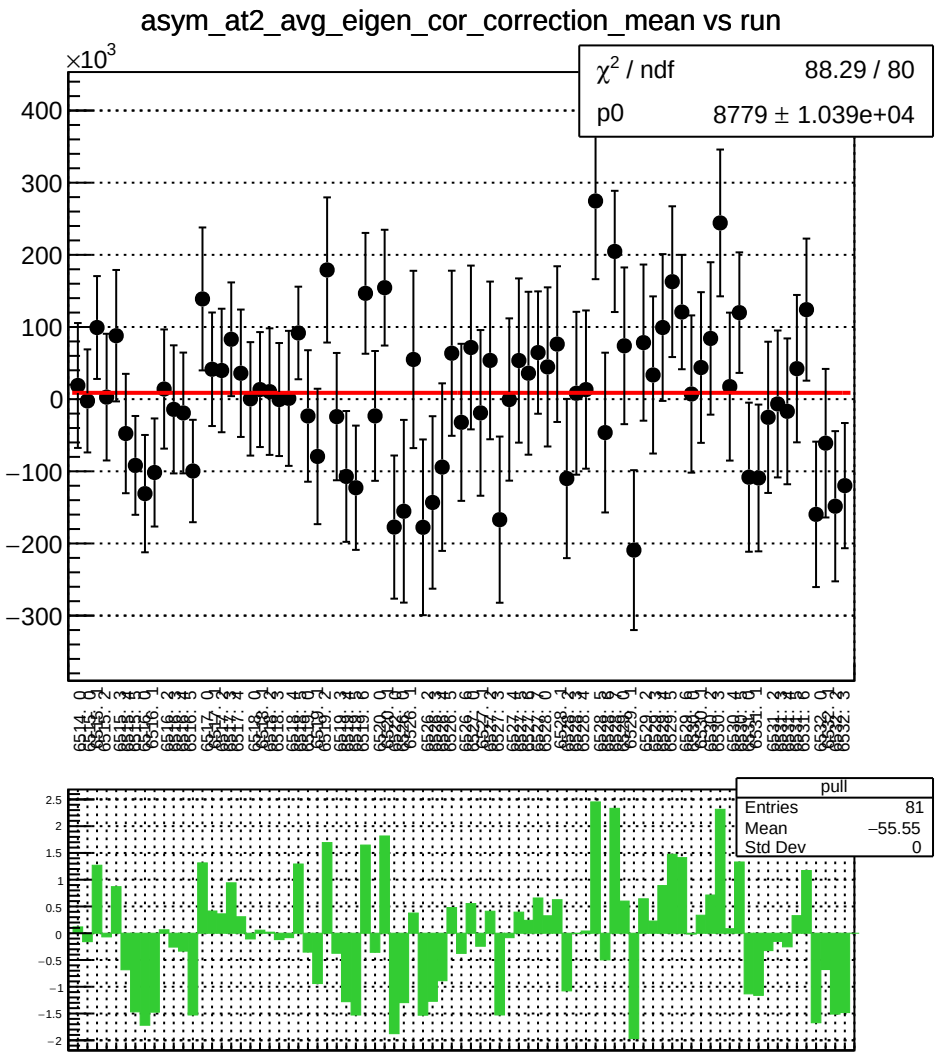

pull1D
Entries 81
Mean −0.01523
Std Dev 1.044

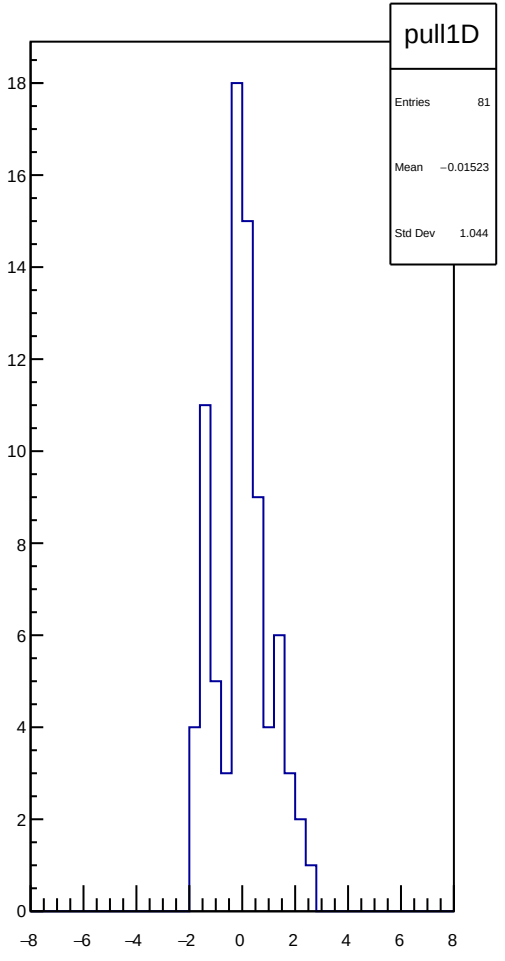

asym_at2_avg_cor_correction_rms vs run
χ² / ndf 3.052e+04 / 80
p0 9088 ± 7.346
12000
11000
10000
9000
8000
7000

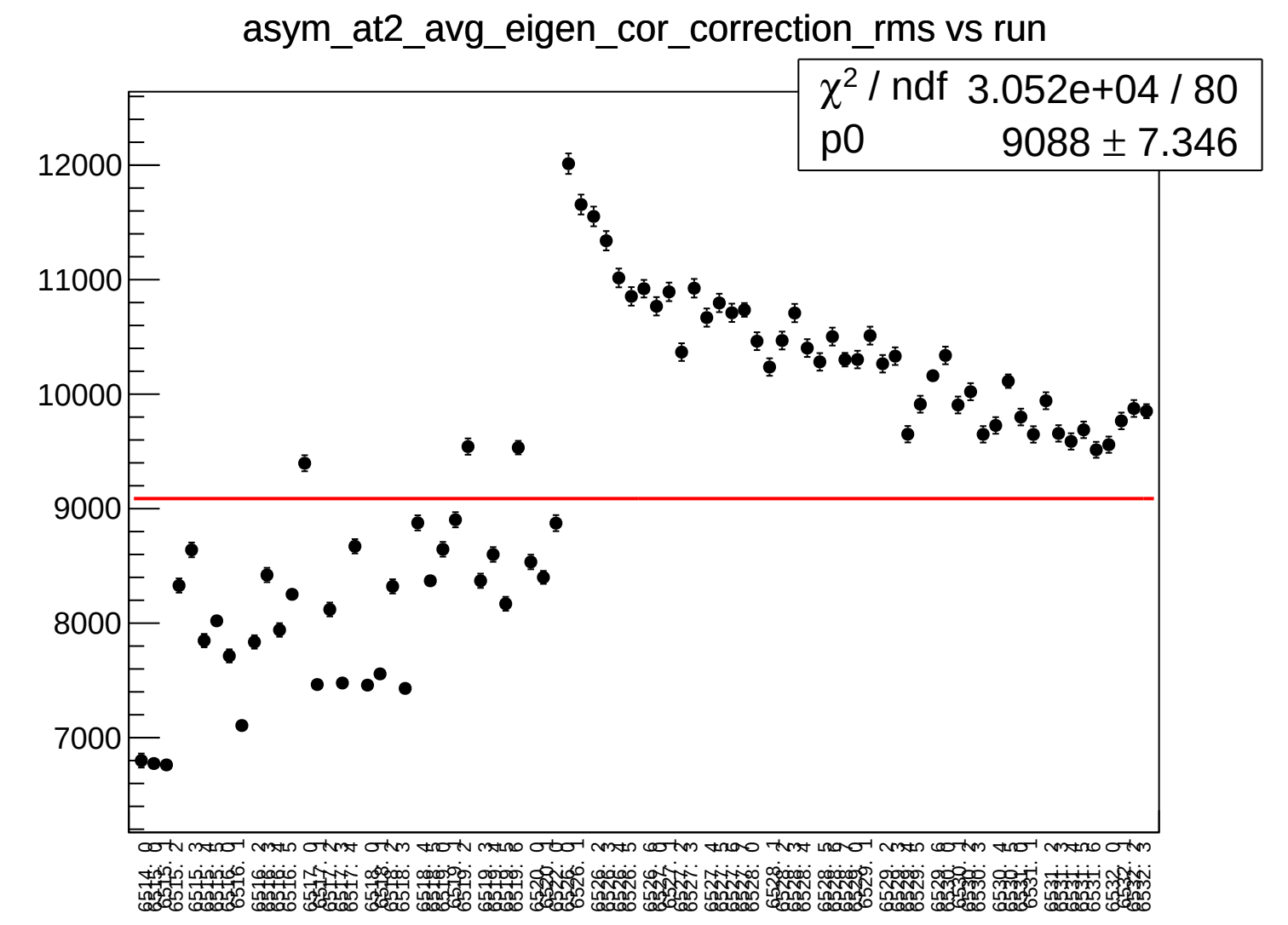

eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 74.41 / 80
p0 437.3 ± 2163
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean 168.9
Std Dev 0
2
1
0
−1
−2

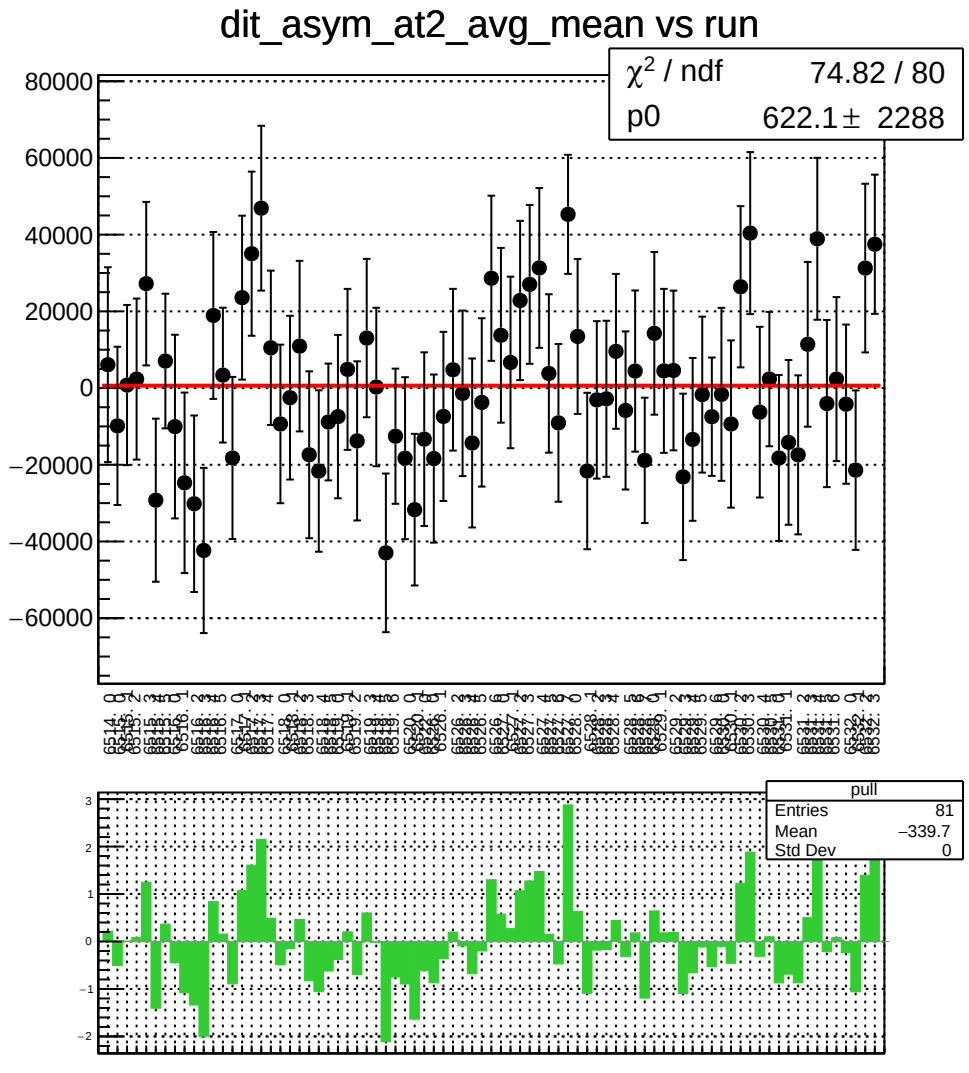

pull1D
Entries 81
Mean −0.005646
Std Dev 0.9584
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

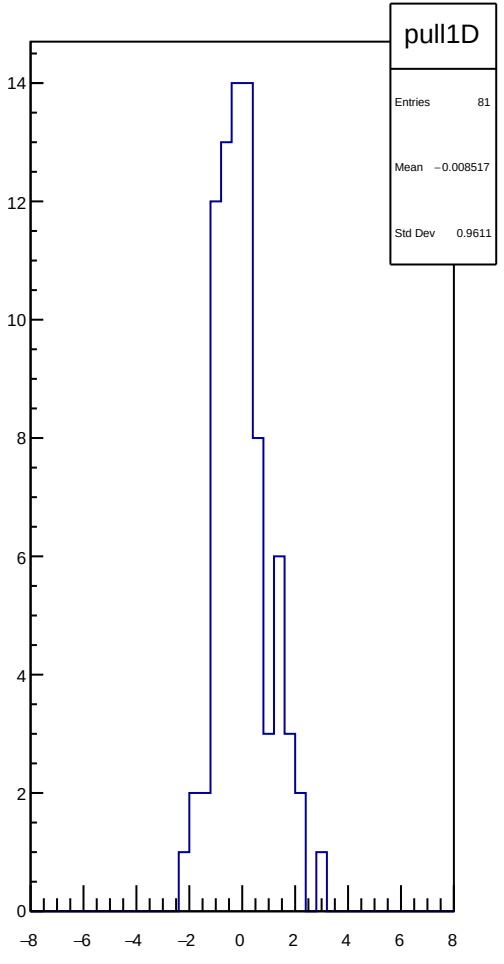

eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 213.1 / 80
p0 1911 ± 1.529
2000
1980
1960
1940
1920
1900
1880
1860
1840

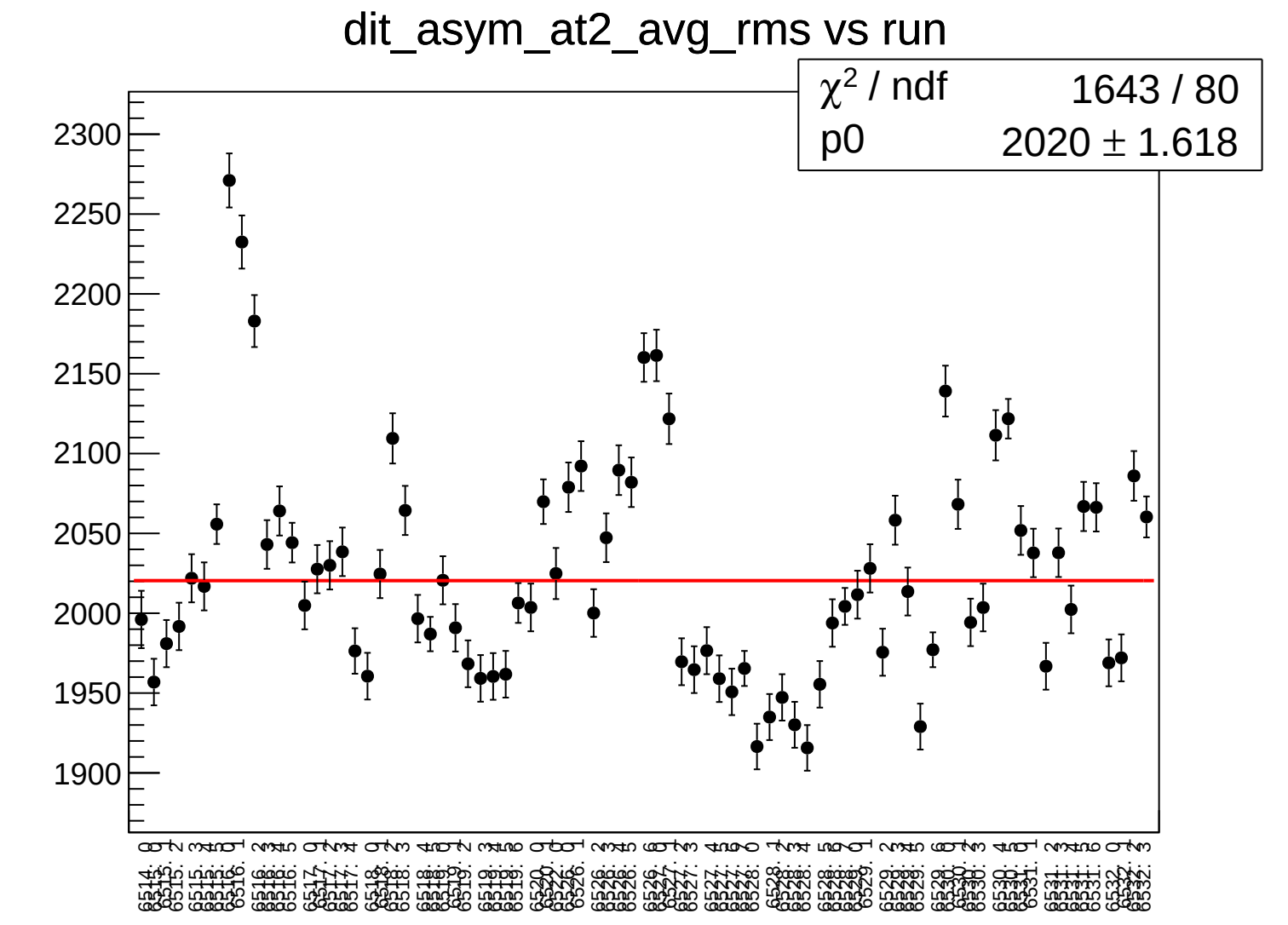

asym_at2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 88.29 / 80
p0 8779 ± 1.039e+04
pull
Entries 81
Mean −55.55
Std Dev 0

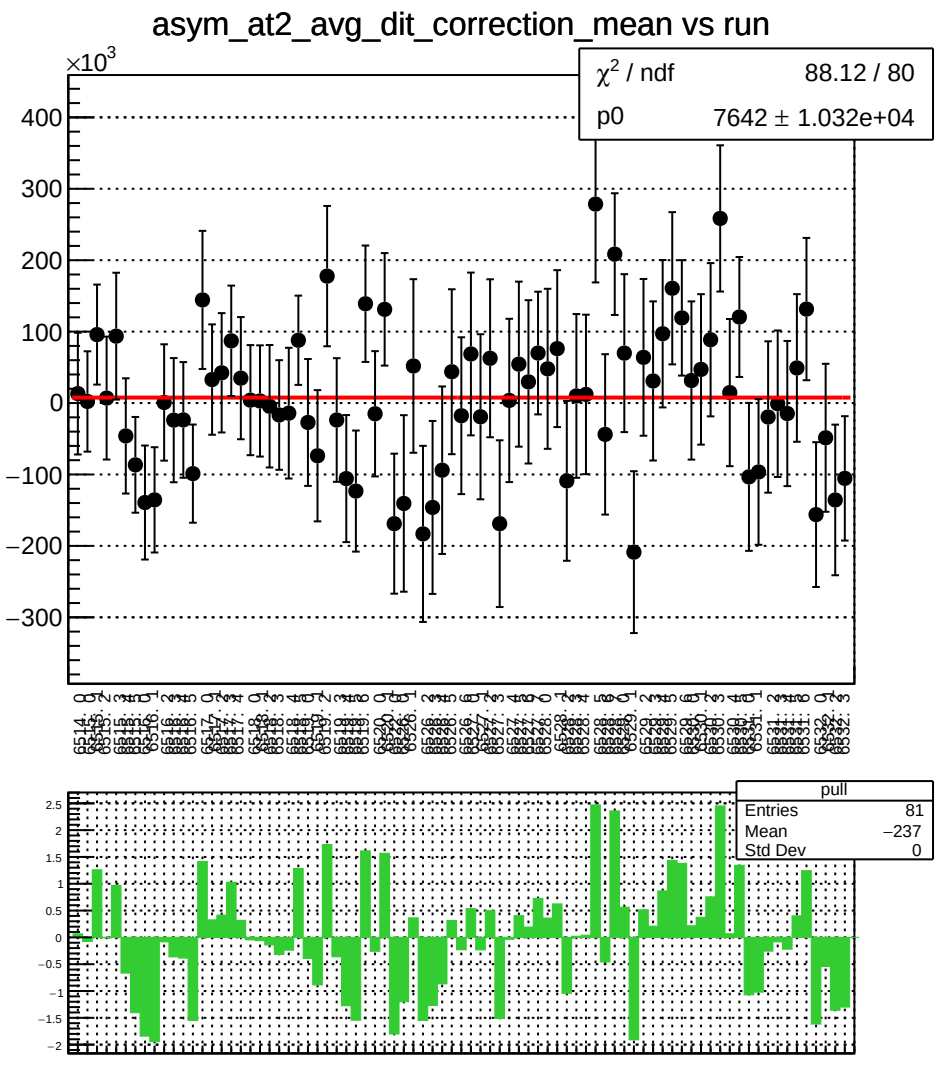

pull1D
Entries 81
Mean −0.01523
Std Dev 1.044

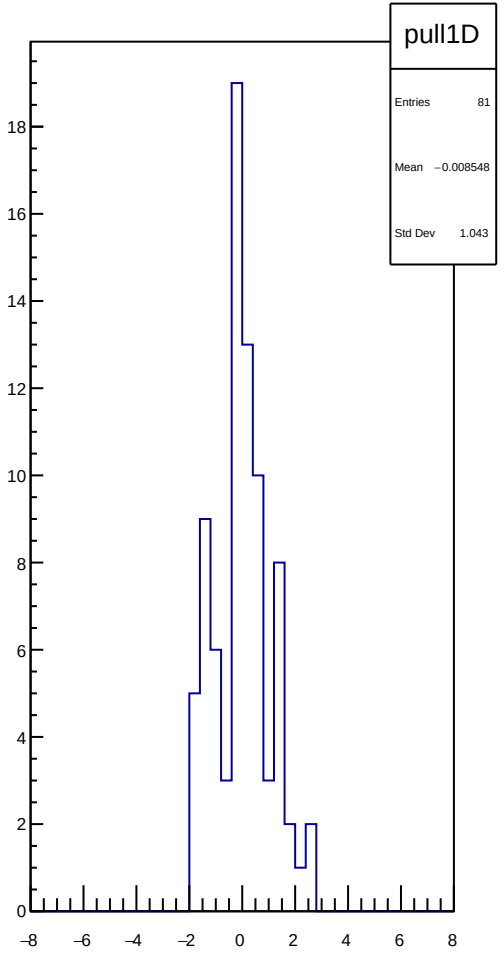

asym_at2_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.052e+04 / 80
p0 9088 ± 7.346
12000
11000
10000
9000
8000
7000

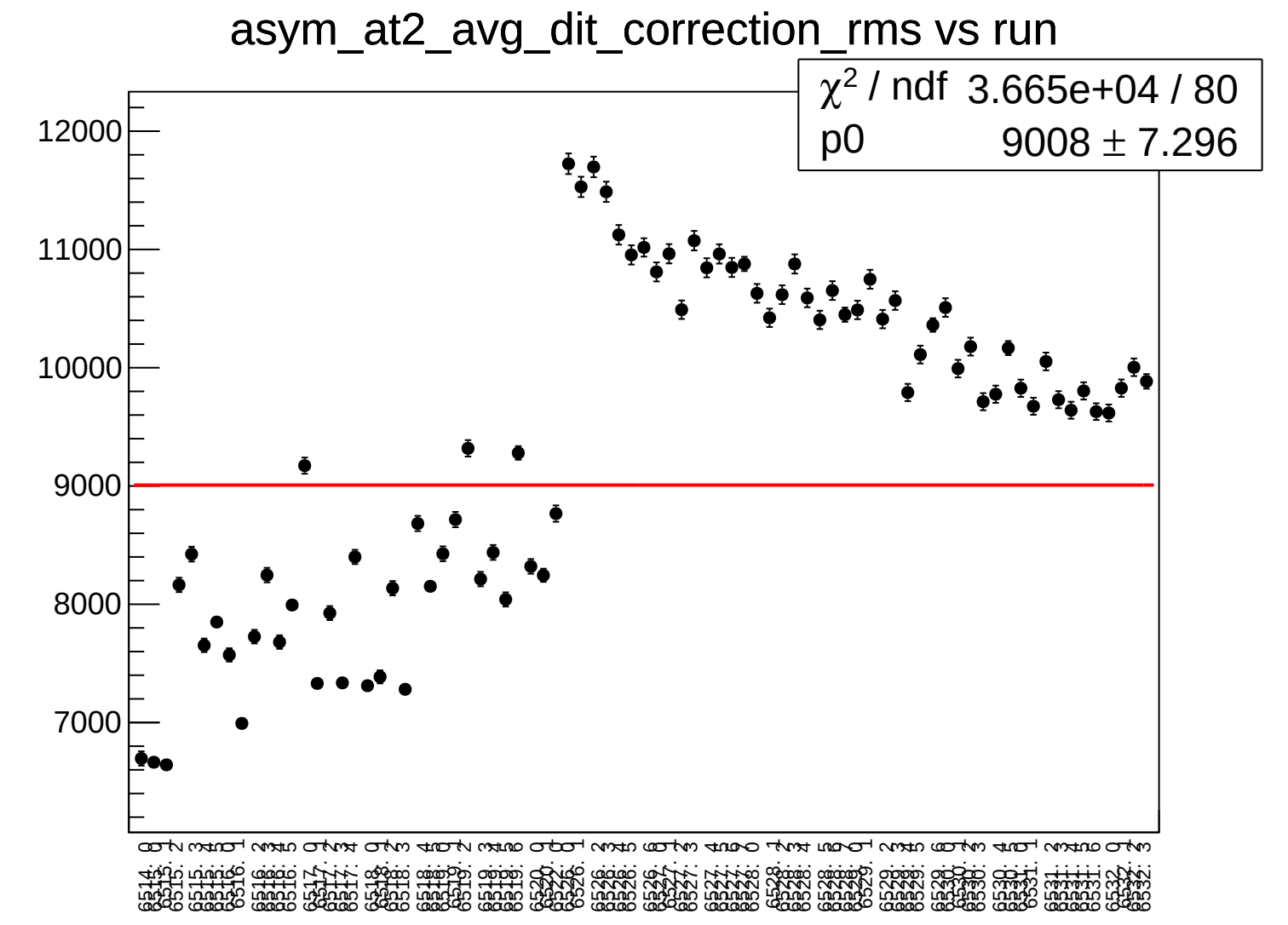

dit_asym_at2_avg_mean vs run
χ² / ndf 74.82 / 80
p0 622.1 ± 2288
pull
Entries 81
Mean −339.7
Std Dev 0

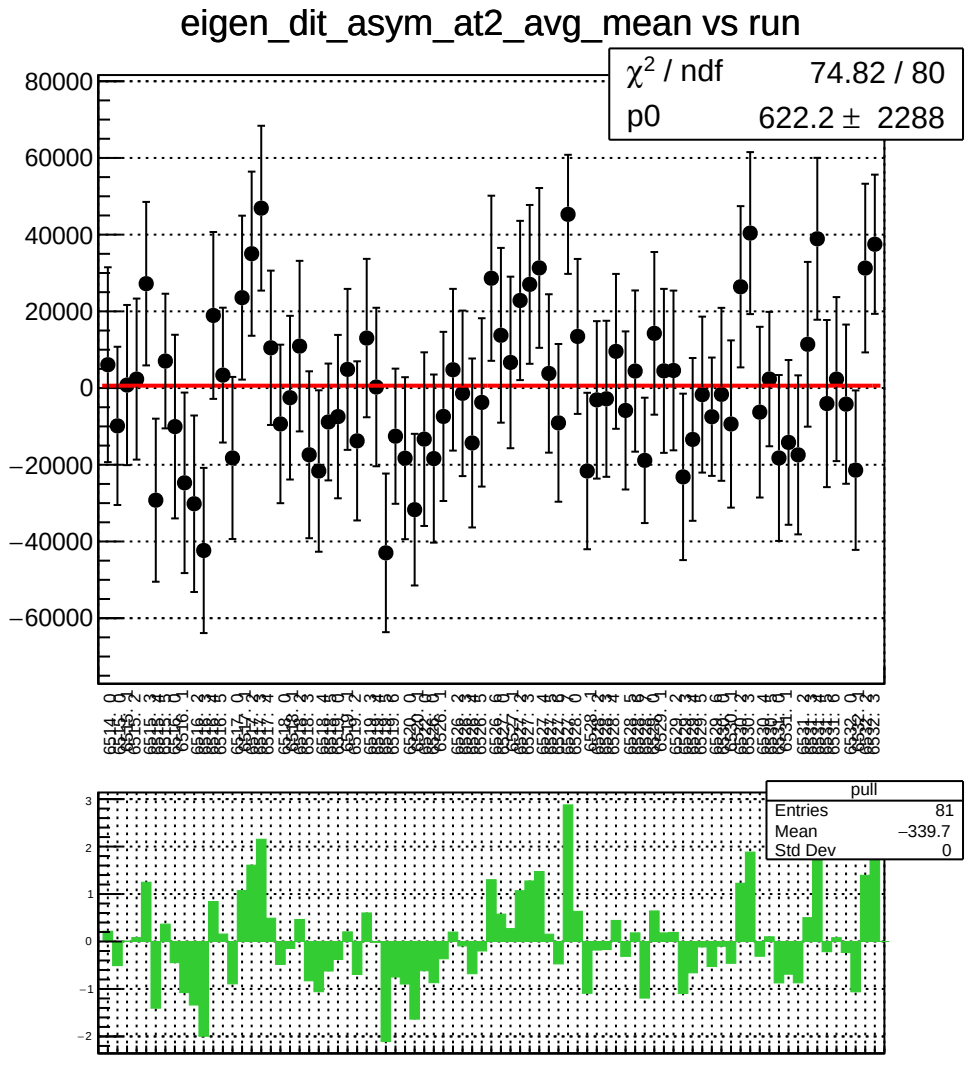

pull1D
Entries 81
Mean −0.008517
Std Dev 0.9611

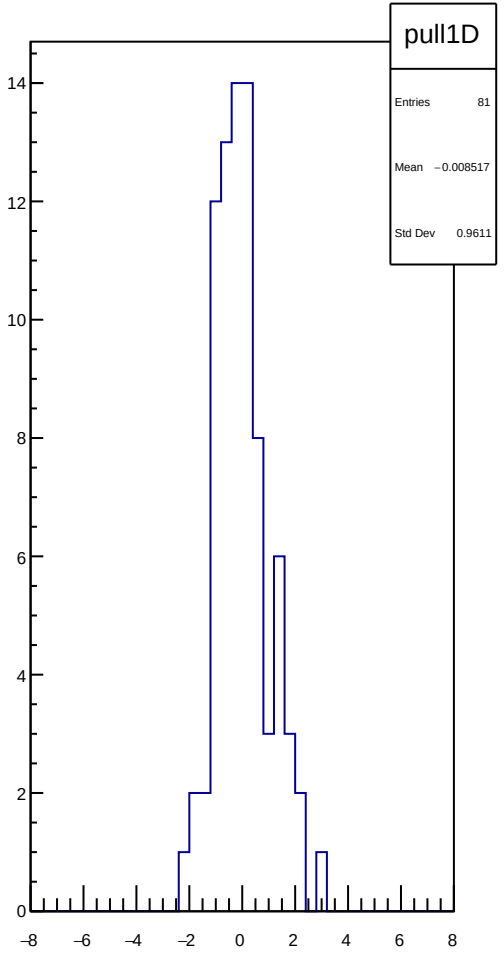

dit_asym_at2_avg_rms vs run
χ^2 / ndf 1643 / 80
p0 2020 ± 1.618
2300
2250
2200
2150
2100
2050
2000
1950
1900

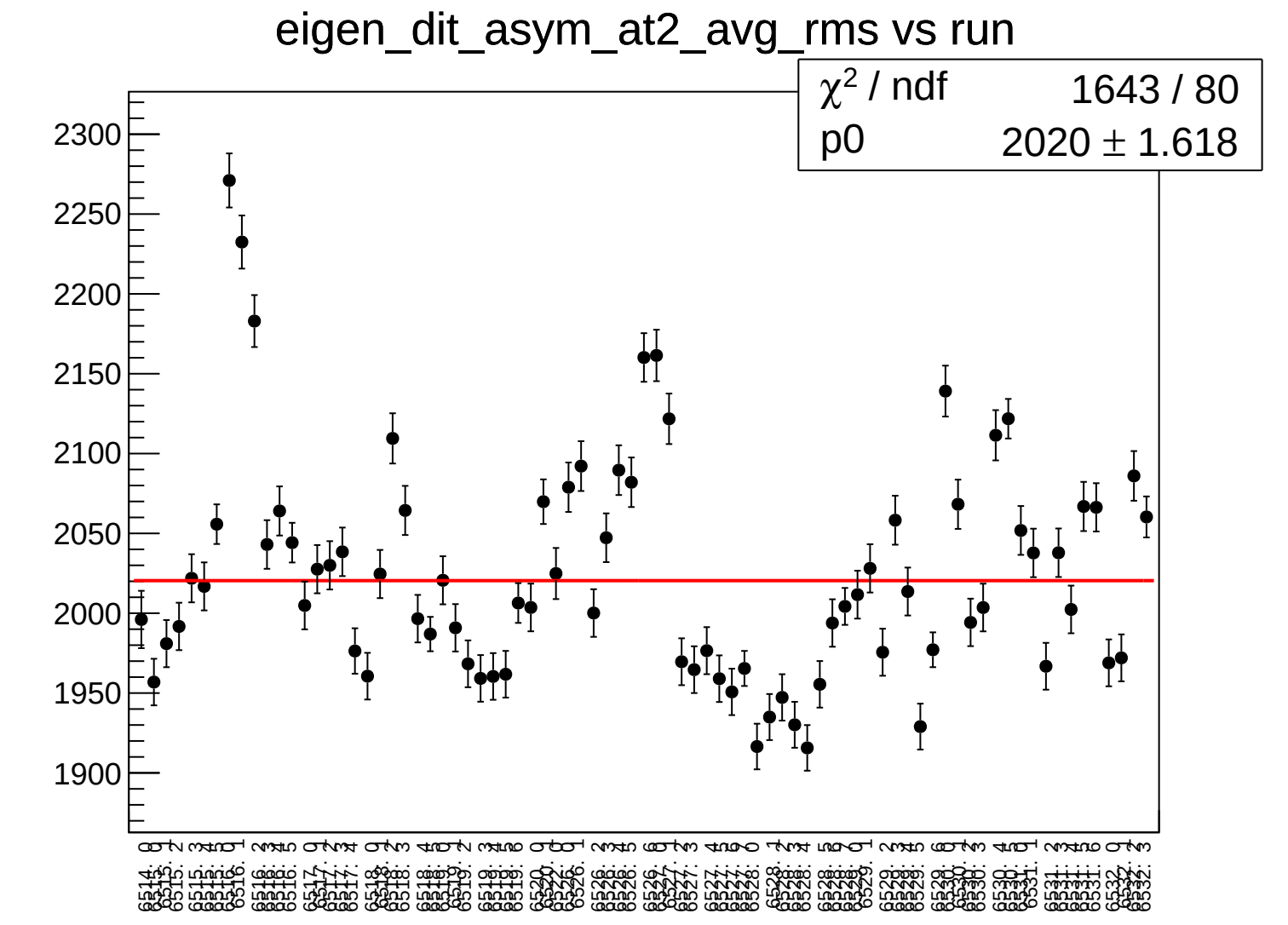

asym_at2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 88.12 / 80
p0 7642 ± 1.032e+04
pull
Entries 81
Mean −237
Std Dev 0

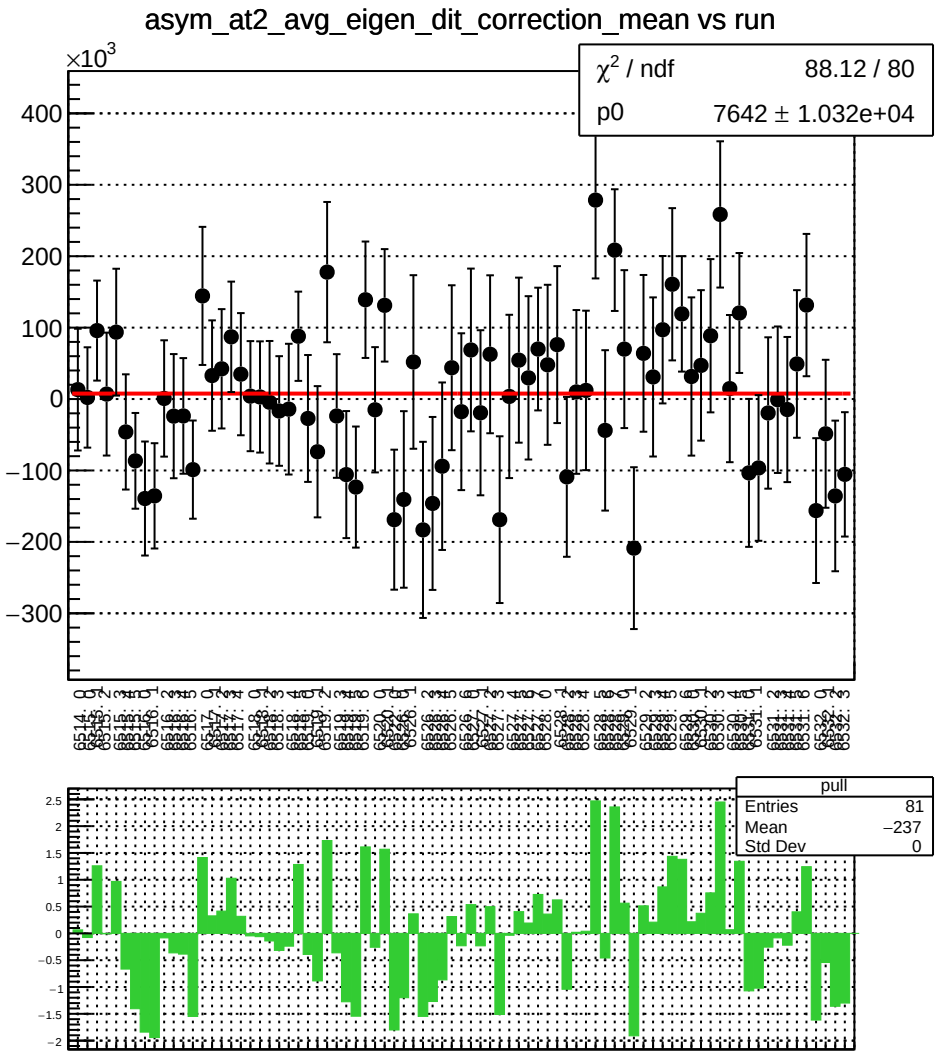

pull1D
Entries 81
Mean −0.008548
Std Dev 1.043

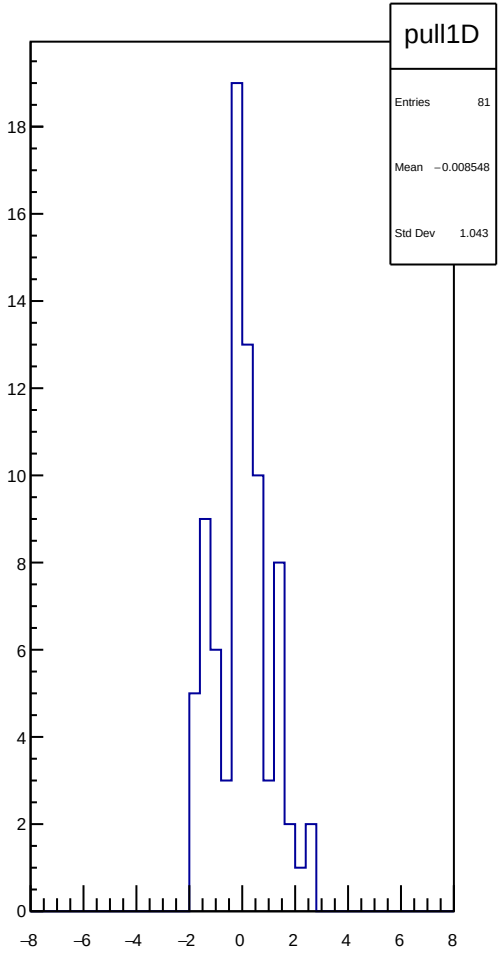

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 3.665e+04 / 80
p0 9008 ± 7.296
12000
11000
10000
9000
8000
7000

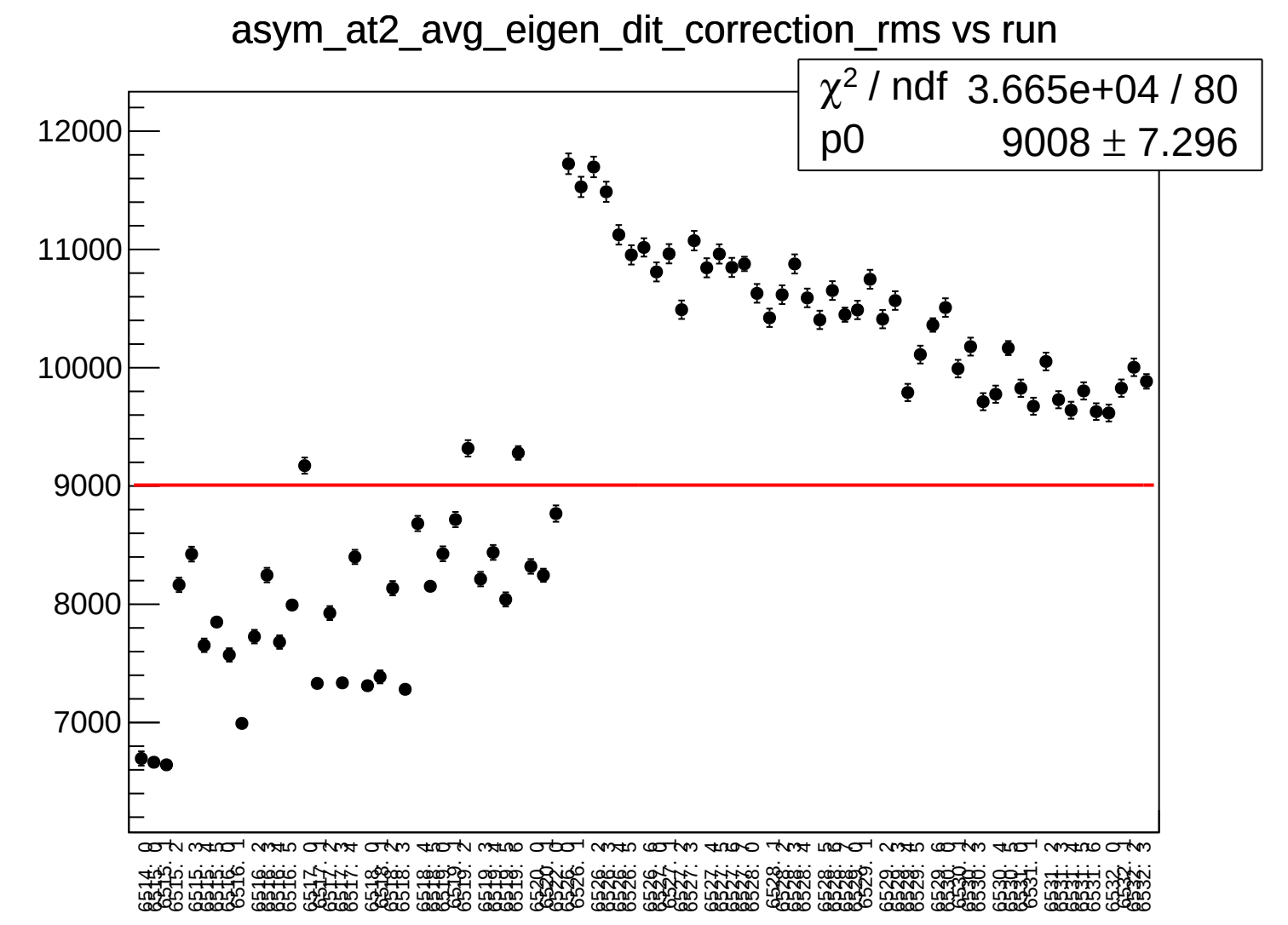

eigen_dit_asym_at2_avg_mean vs run
χ² / ndf 74.82 / 80
p0 622.2 ± 2288
pull
Entries 81
Mean −339.7
Std Dev 0

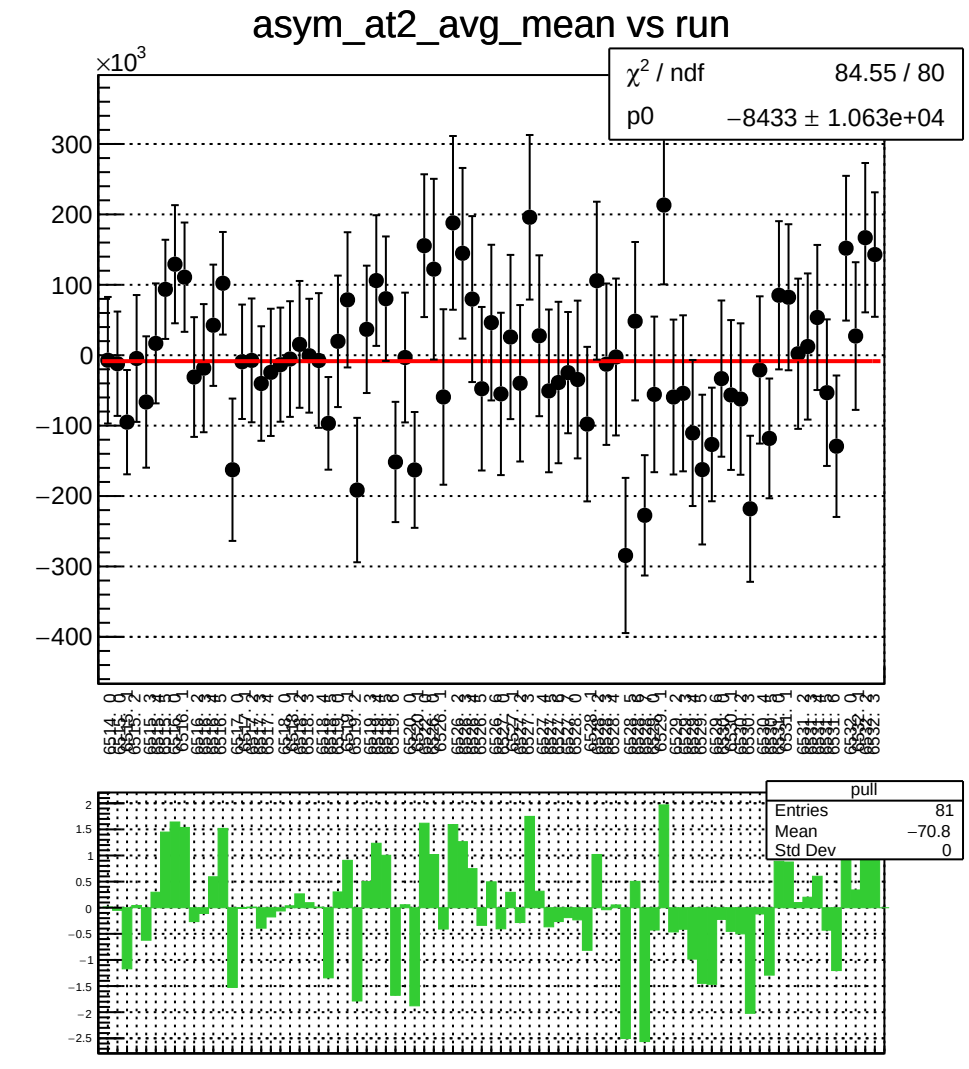

pull1D
Entries 81
Mean −0.008517
Std Dev 0.9611

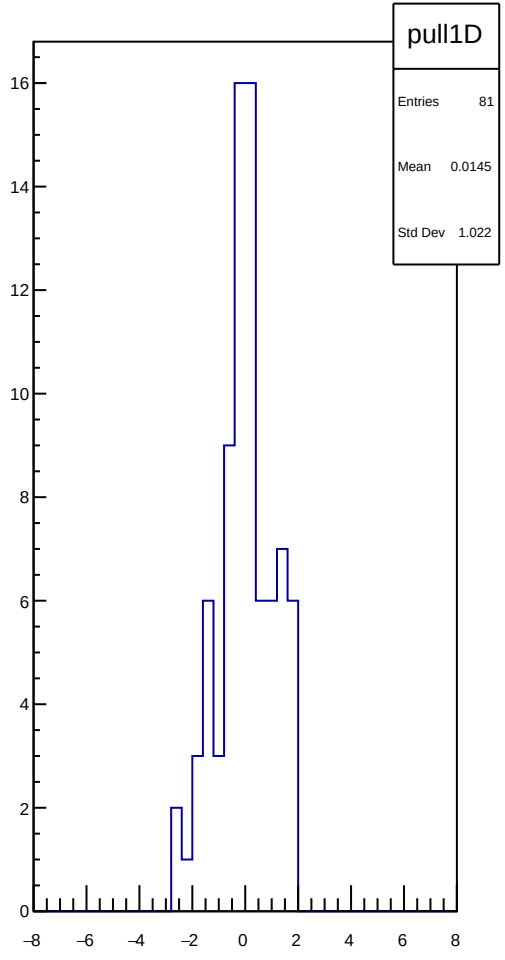

eigen_dit_asym_at2_avg_rms vs run
χ² / ndf 1643 / 80
p0 2020 ± 1.618
2300
2250
2200
2150
2100
2050
2000
1950
1900

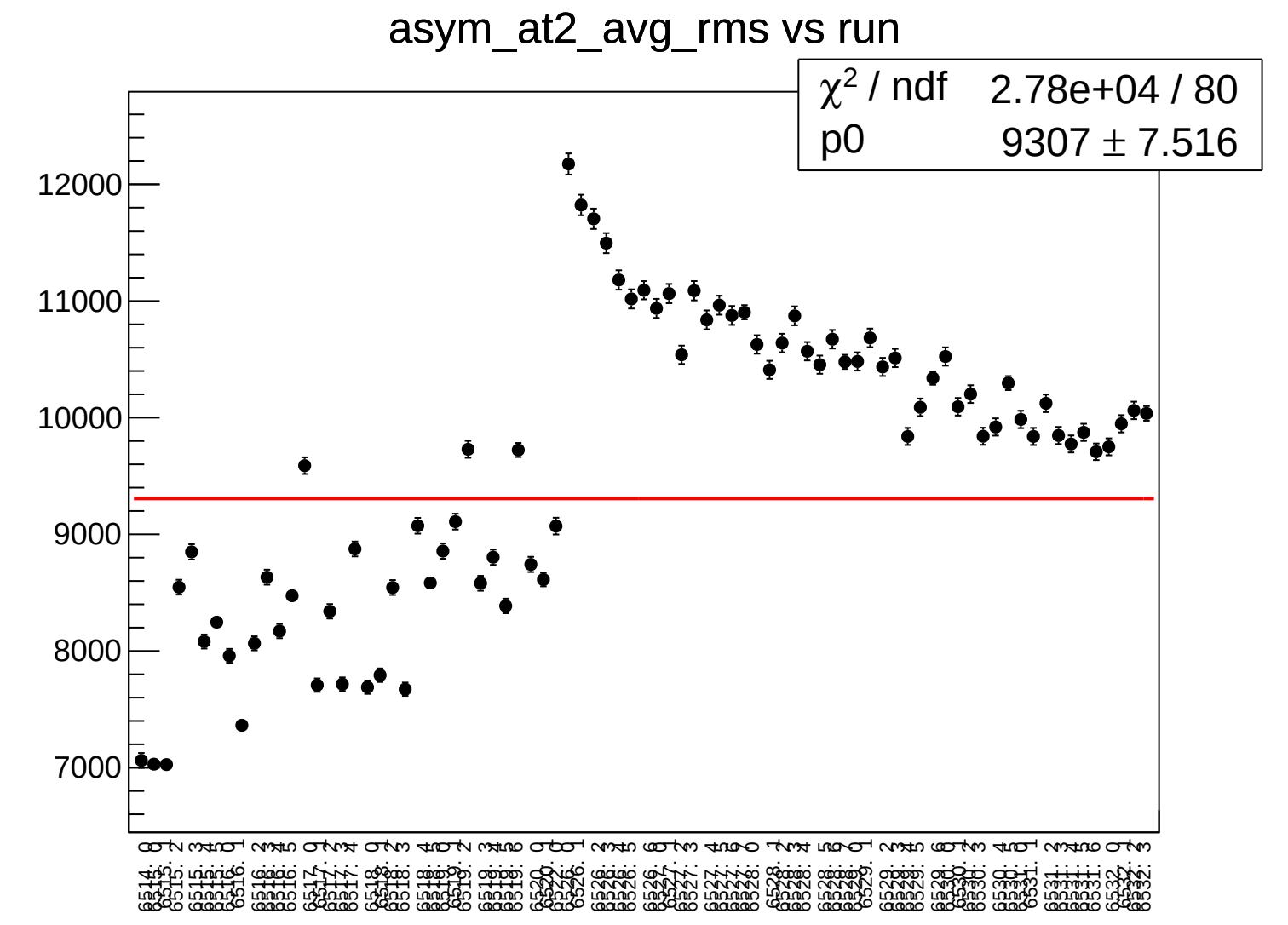

asym_at2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 88.12 / 80
p0 7642 ± 1.032e+04
pull
Entries 81
Mean −237
Std Dev 0

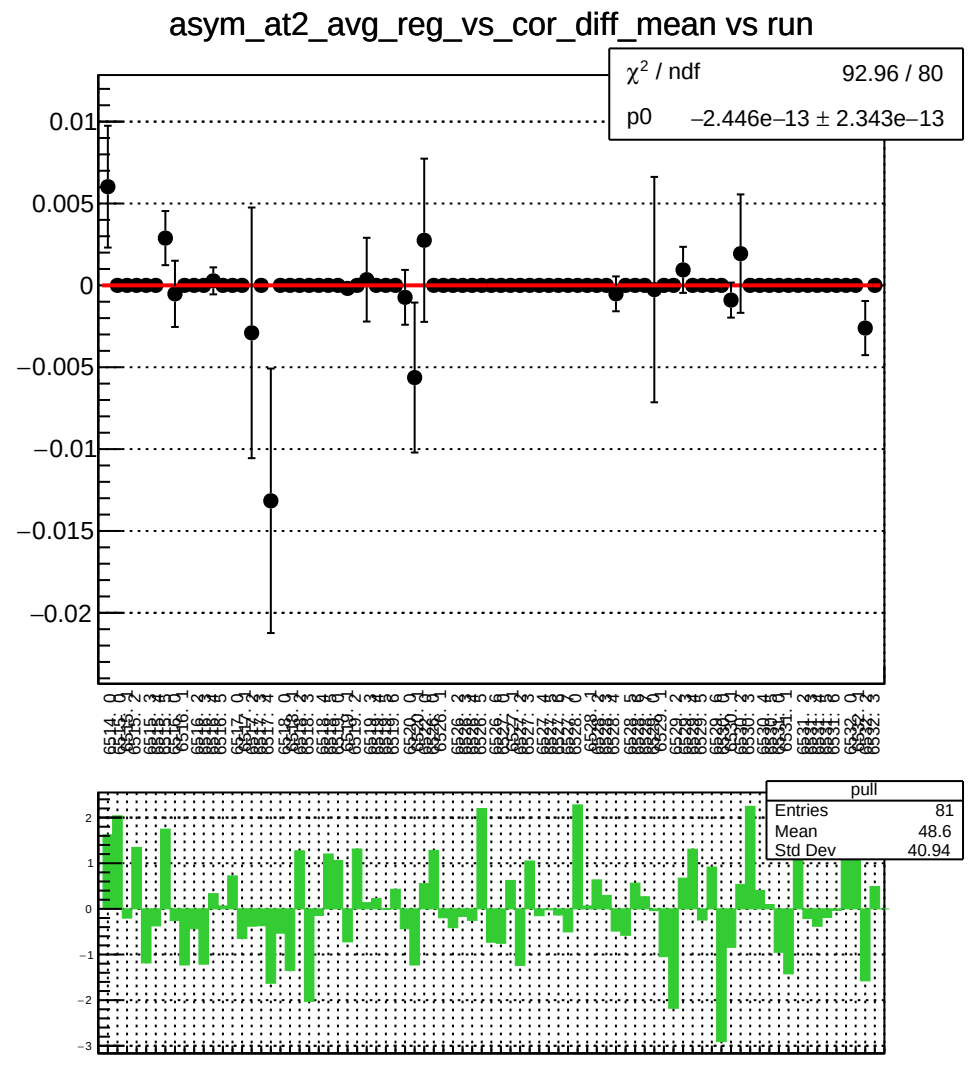

pull1D
Entries 81
Mean −0.008548
Std Dev 1.043

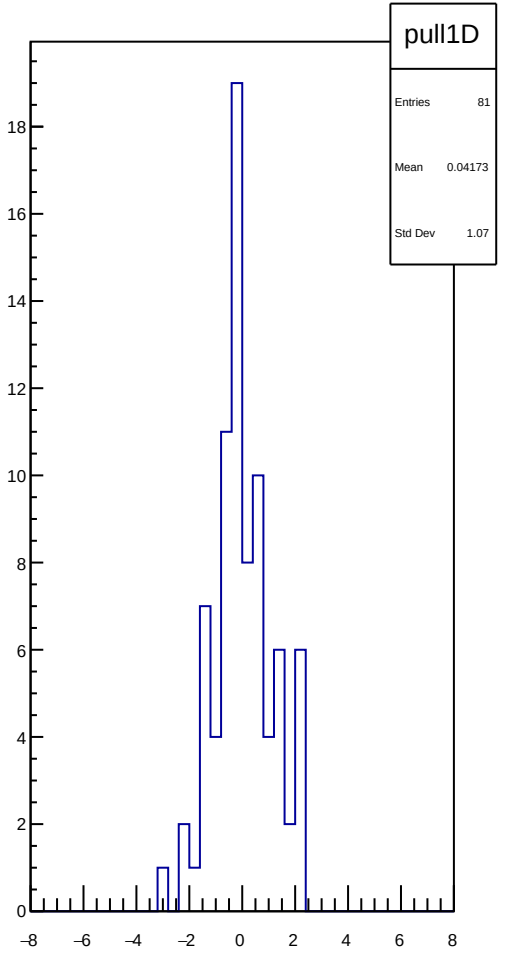

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.665e+04 / 80
p0 9008 ± 7.296
12000
11000
10000
9000
8000
7000

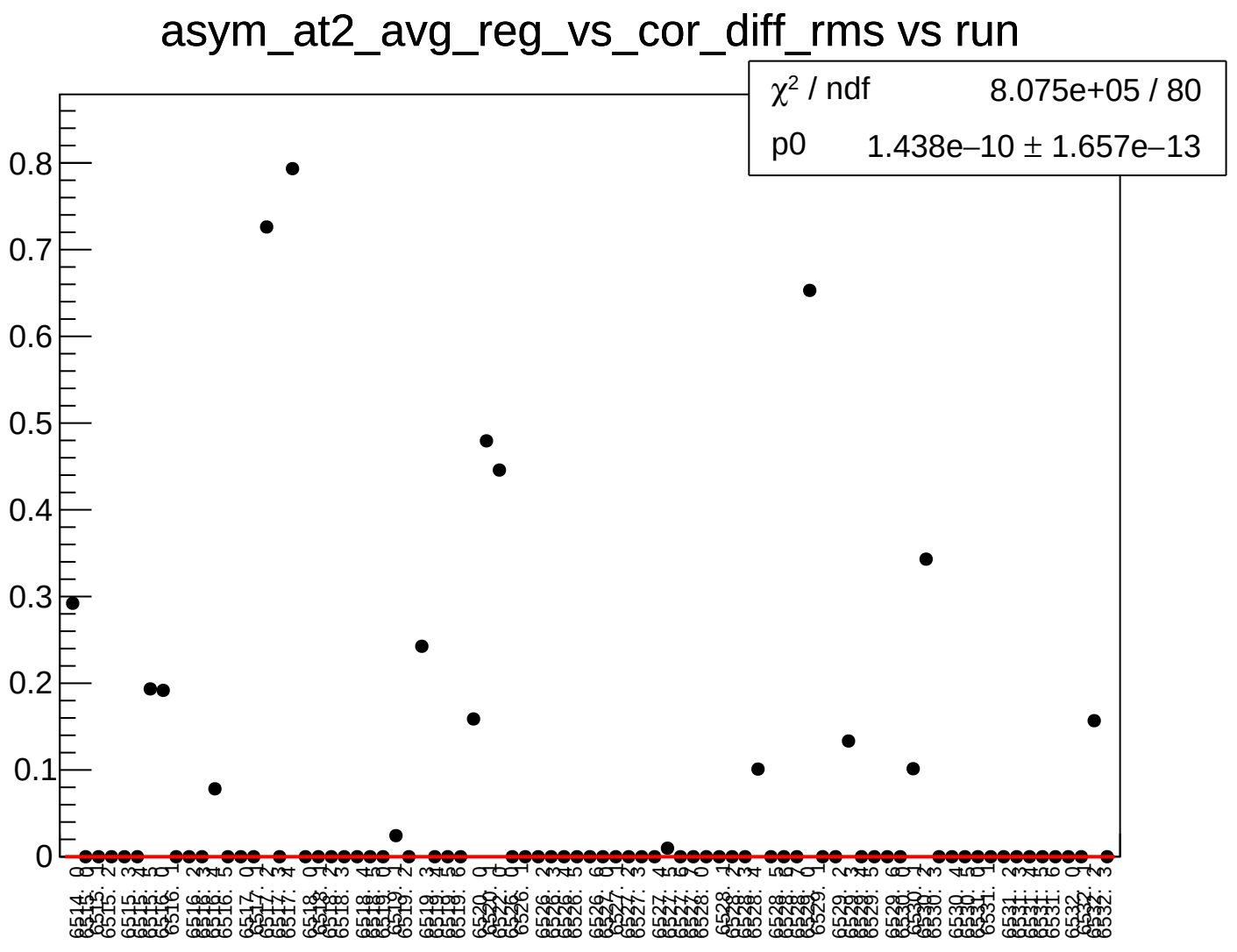

asym_at2_avg_mean vs run
×10^3
χ² / ndf 84.55 / 80
p0 −8433 ± 1.063e+04
300
200
100
0
−100
−200
−300
−400
pull
Entries 81
Mean −70.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

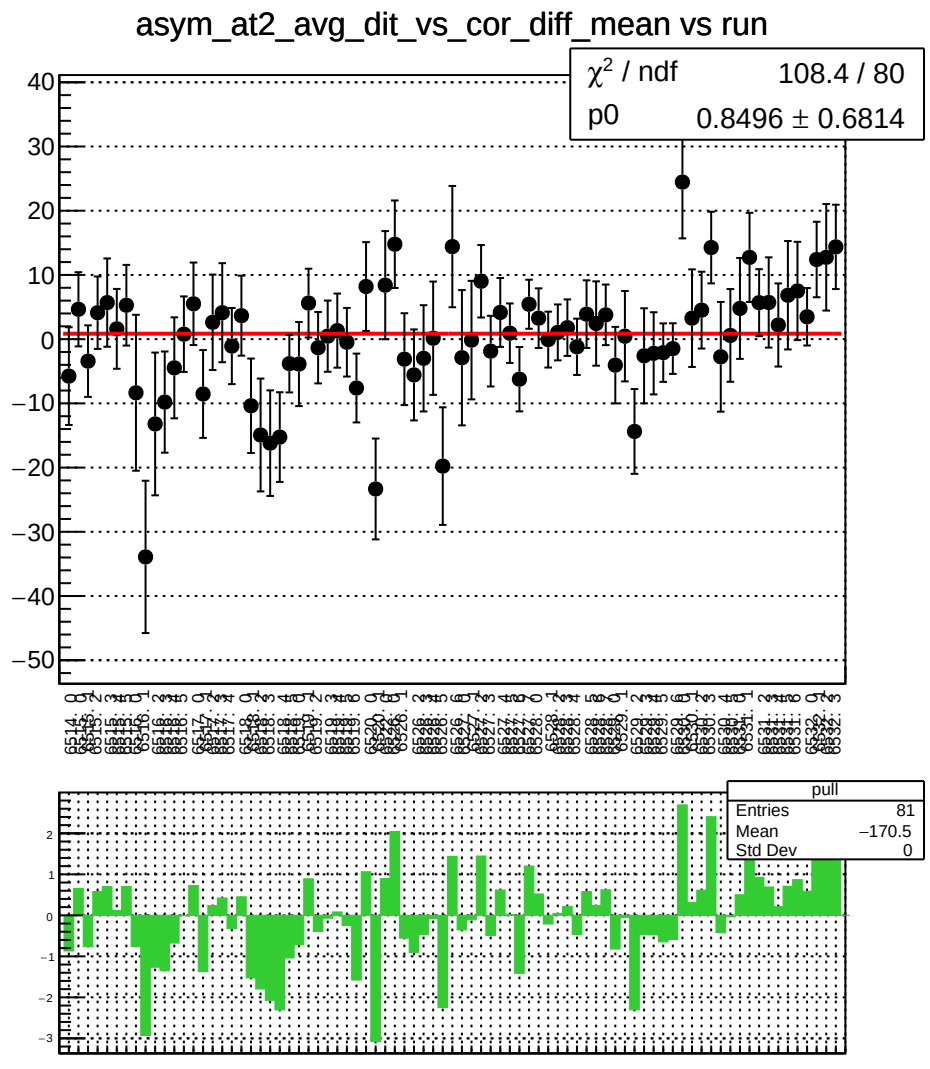

pull1D
Entries 81
Mean 0.0145
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

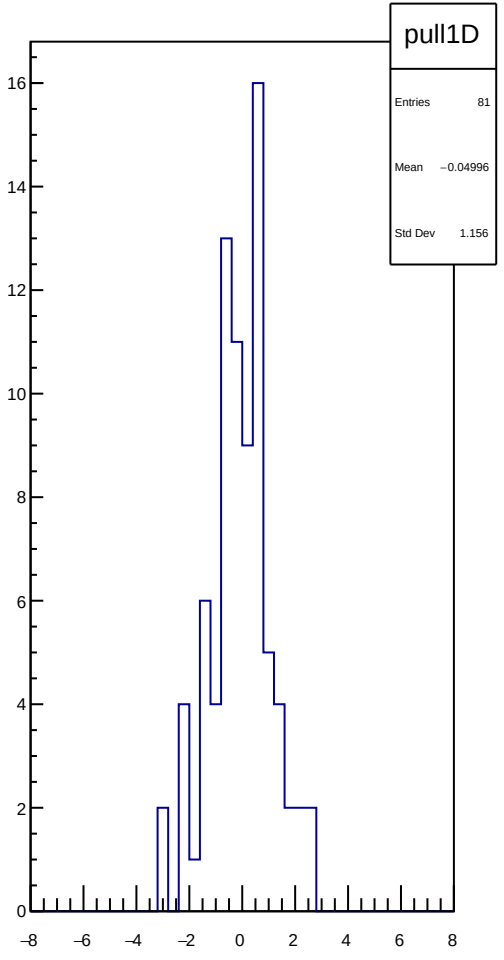

asym_at2_avg_rms vs run
χ² / ndf 2.78e+04 / 80
p0 9307 ± 7.516
12000
11000
10000
9000
8000
7000

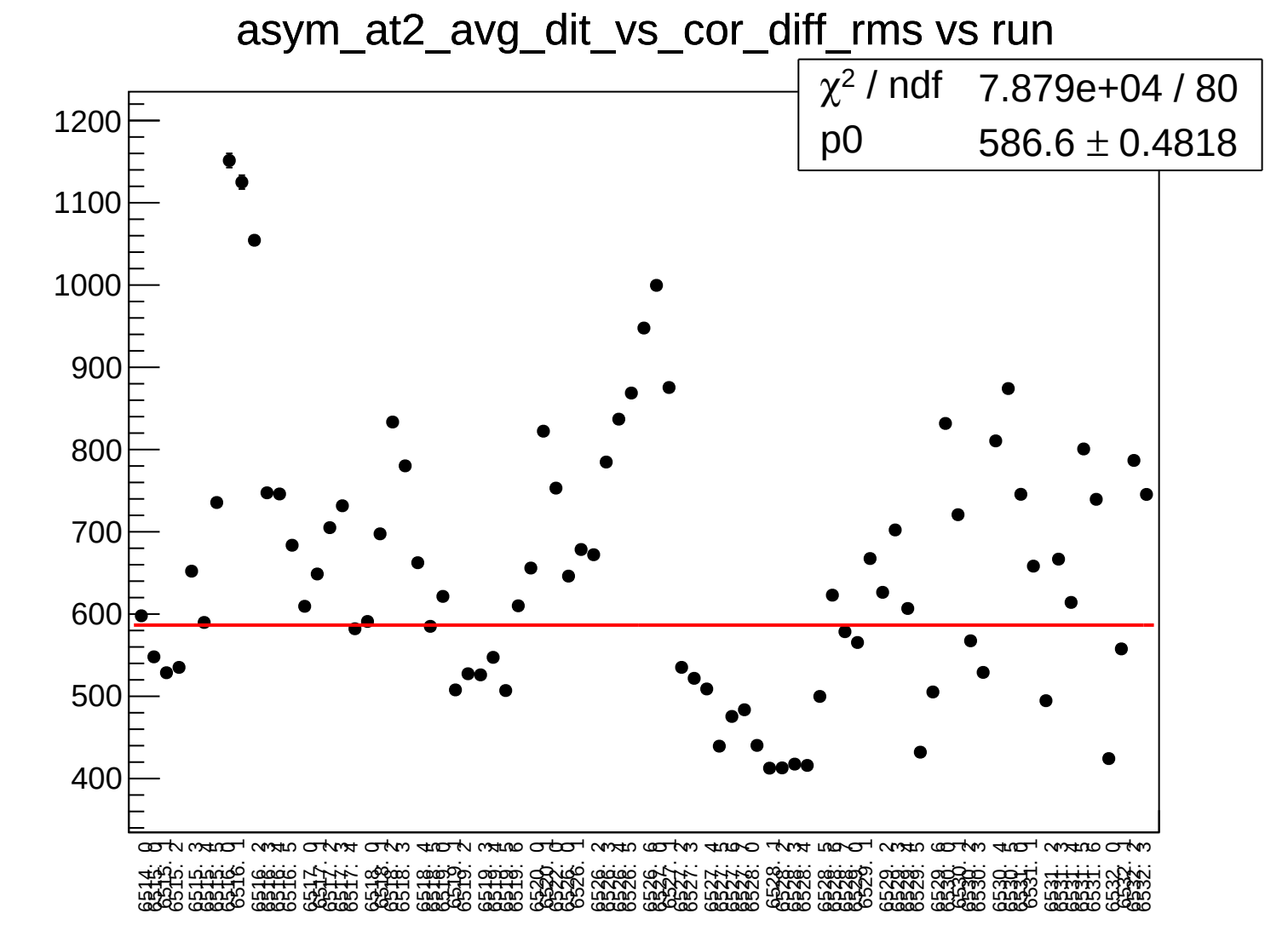

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 92.96 / 80
p0 −2.446e−13 ± 2.343e−13
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 81
Mean 48.6
Std Dev 40.94
2
1
0
−1
−2
−3

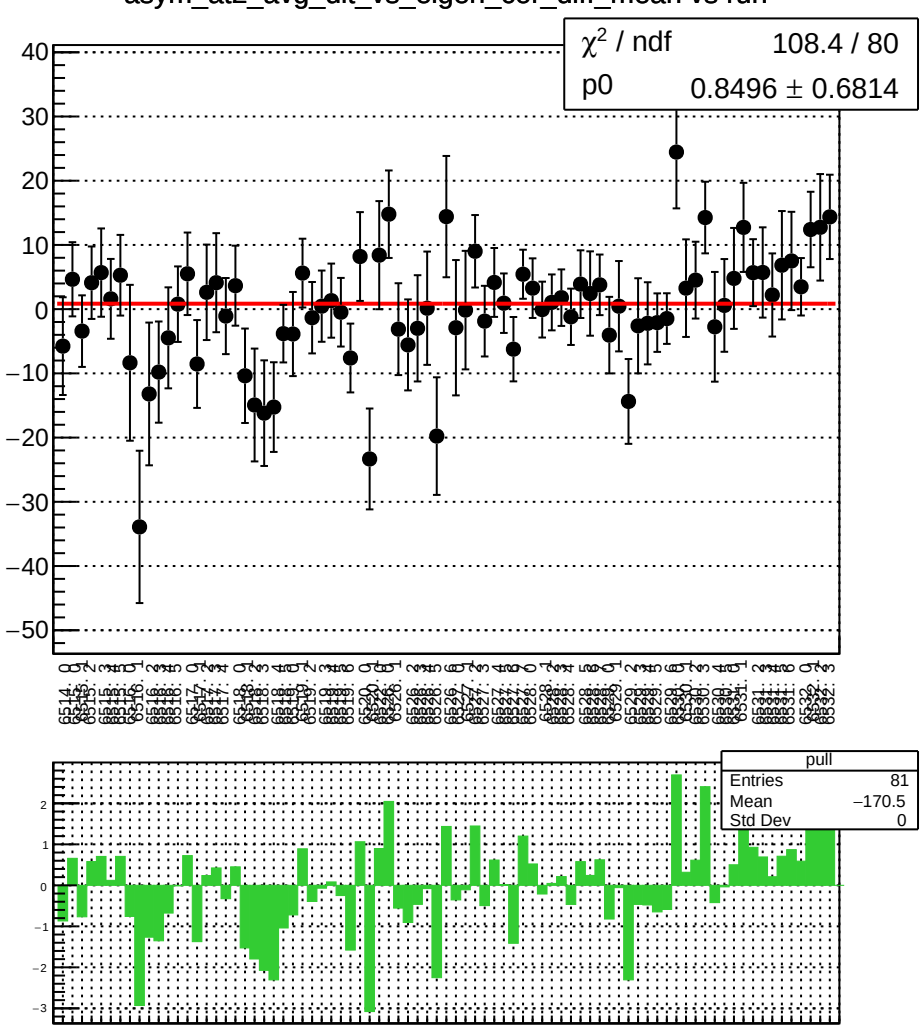

pull1D
Entries 81
Mean 0.04173
Std Dev 1.07
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

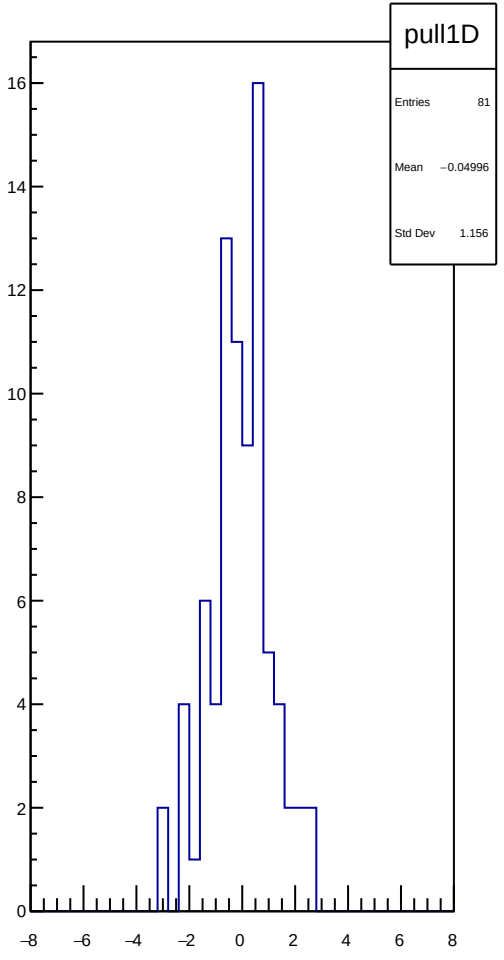

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.075e+05 / 80
p0 1.438e−10 ± 1.657e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

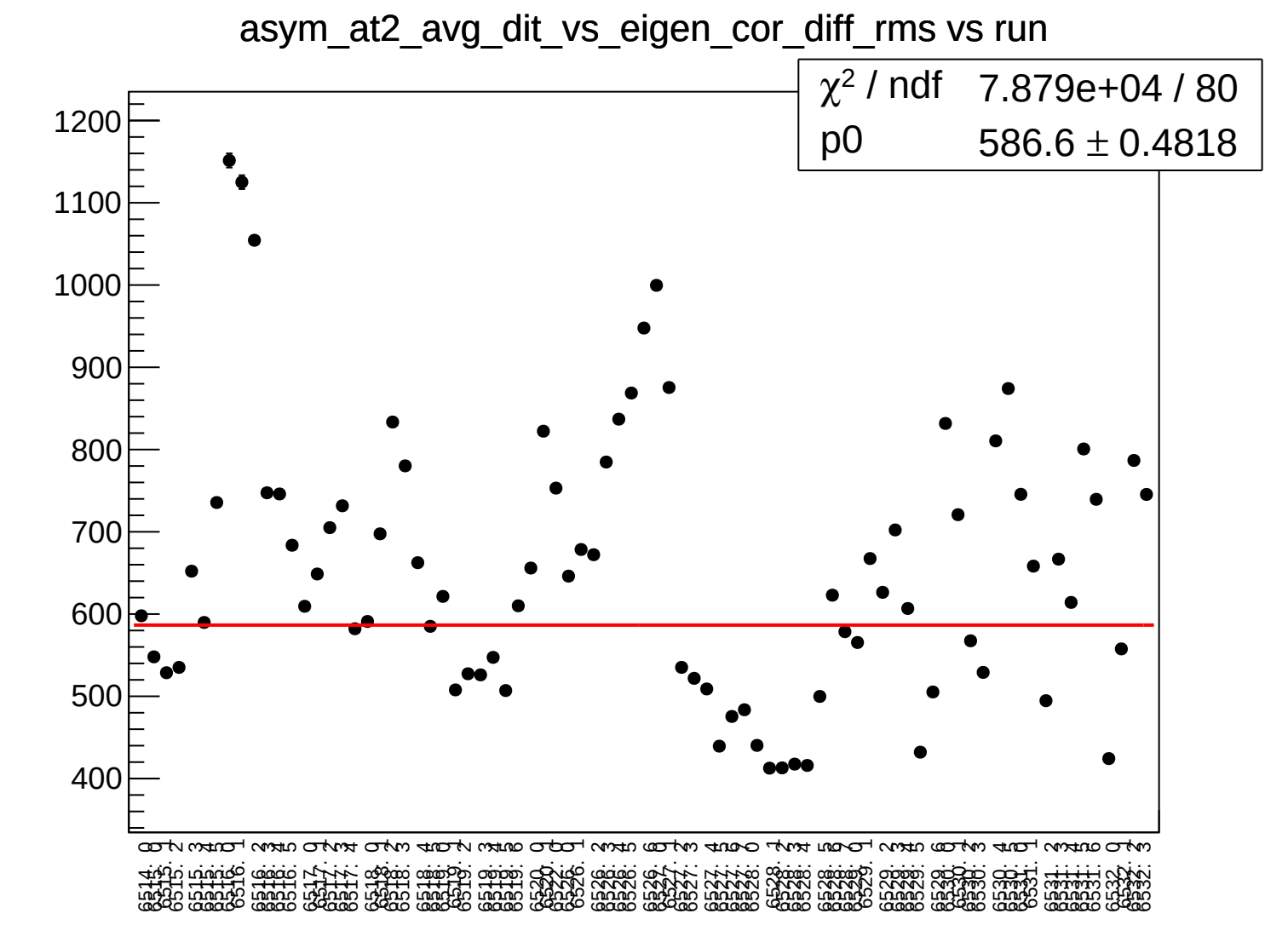

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 108.4 / 80
p0 0.8496 ± 0.6814
pull
Entries 81
Mean −170.5
Std Dev 0

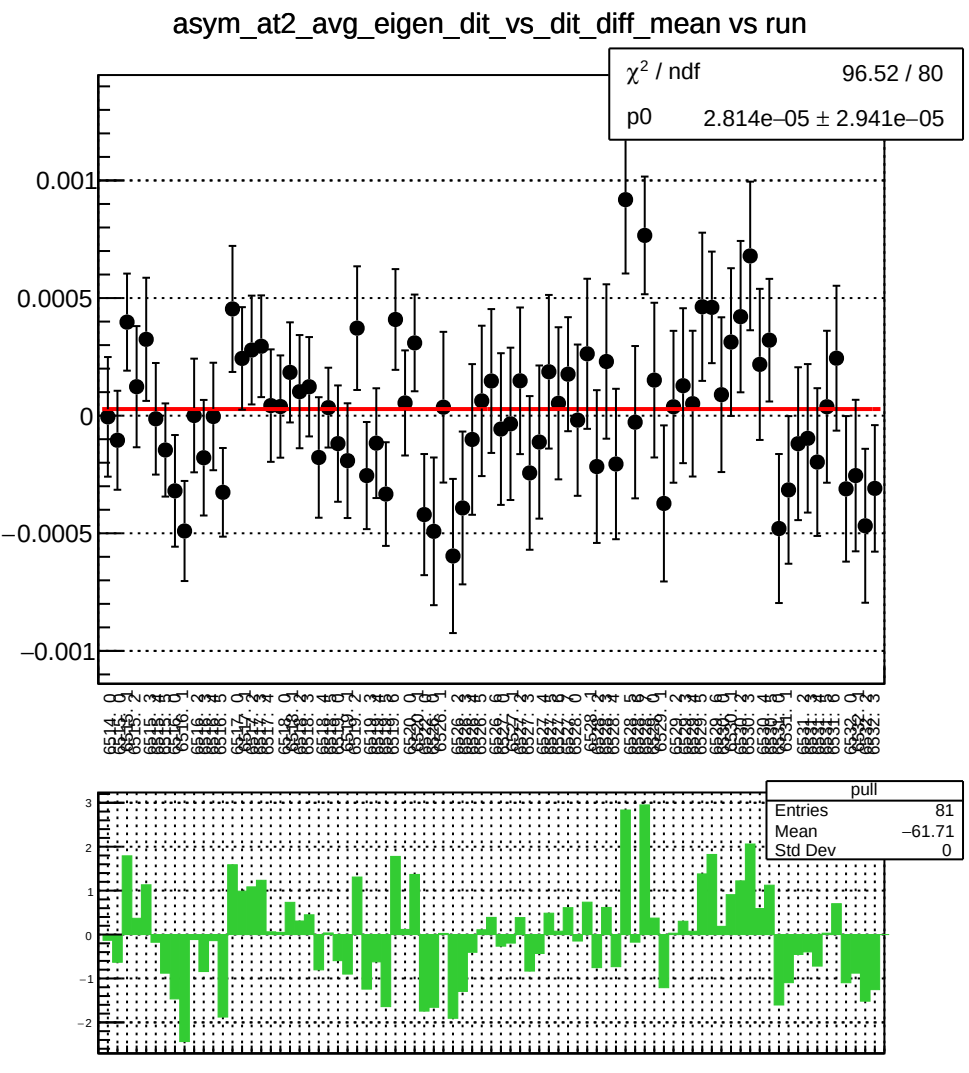

pull1D
Entries 81
Mean −0.04996
Std Dev 1.156

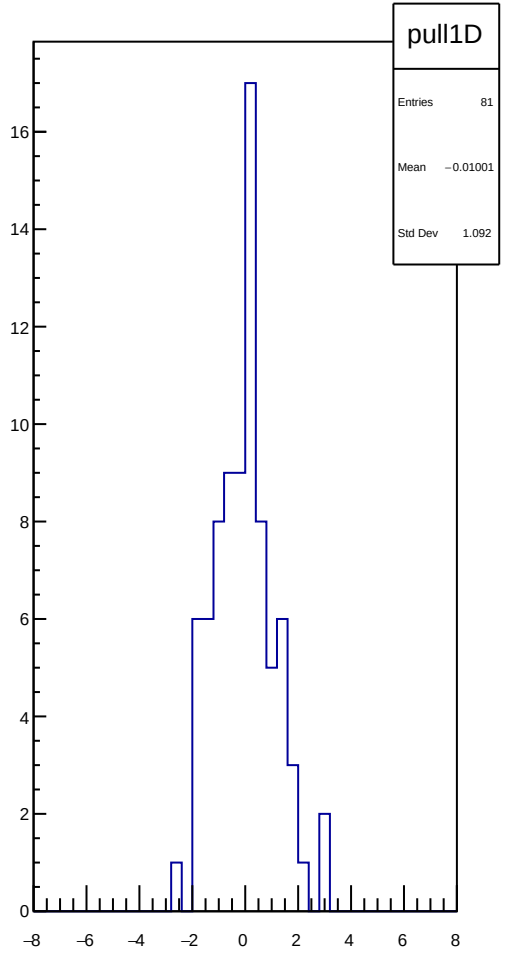

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.879e+04 / 80
p0 586.6 ± 0.4818
1200
1100
1000
900
800
700
600
500
400

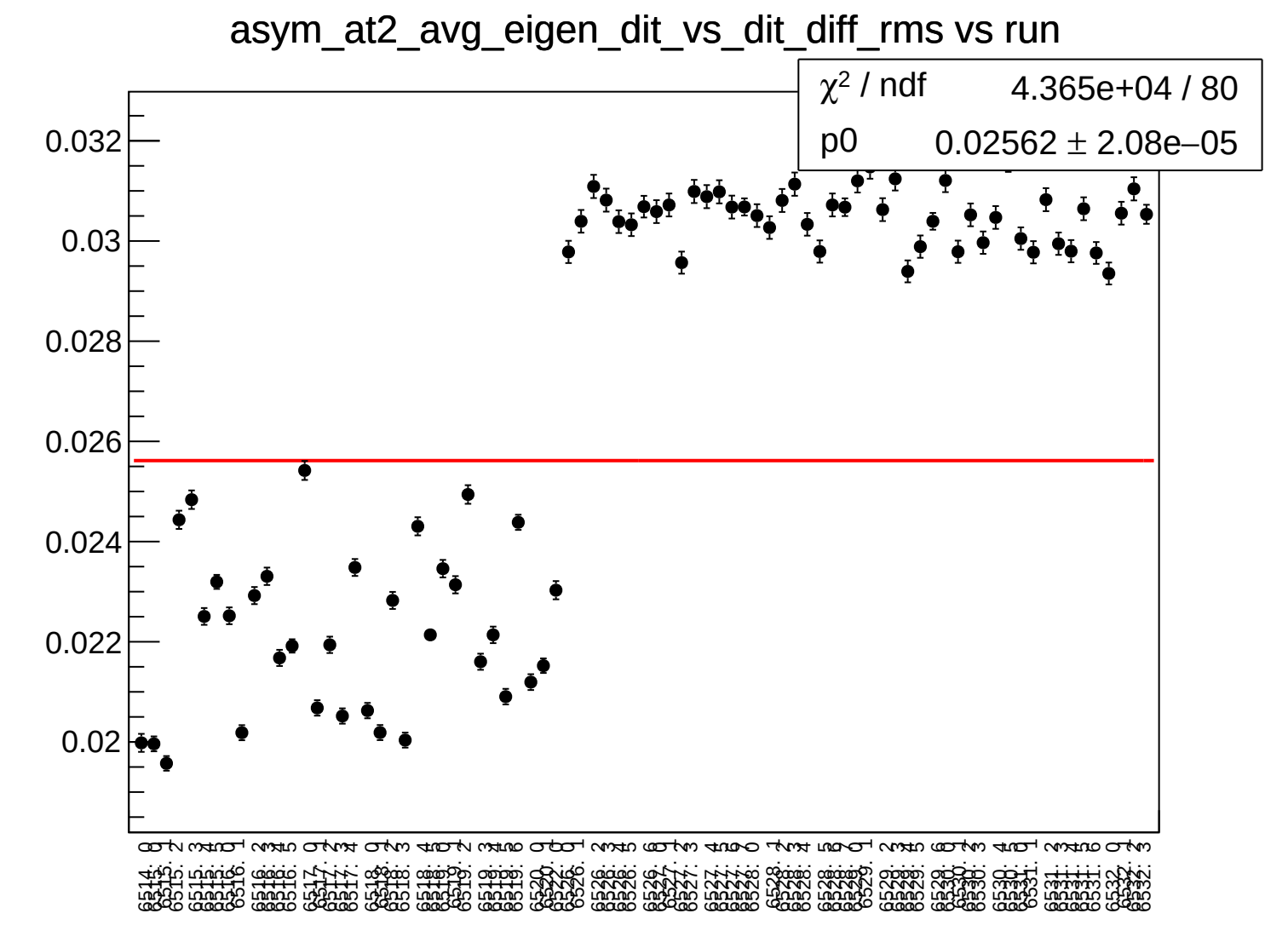

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.4 / 80
p0 0.8496 ± 0.6814
pull
Entries 81
Mean −170.5
Std Dev 0

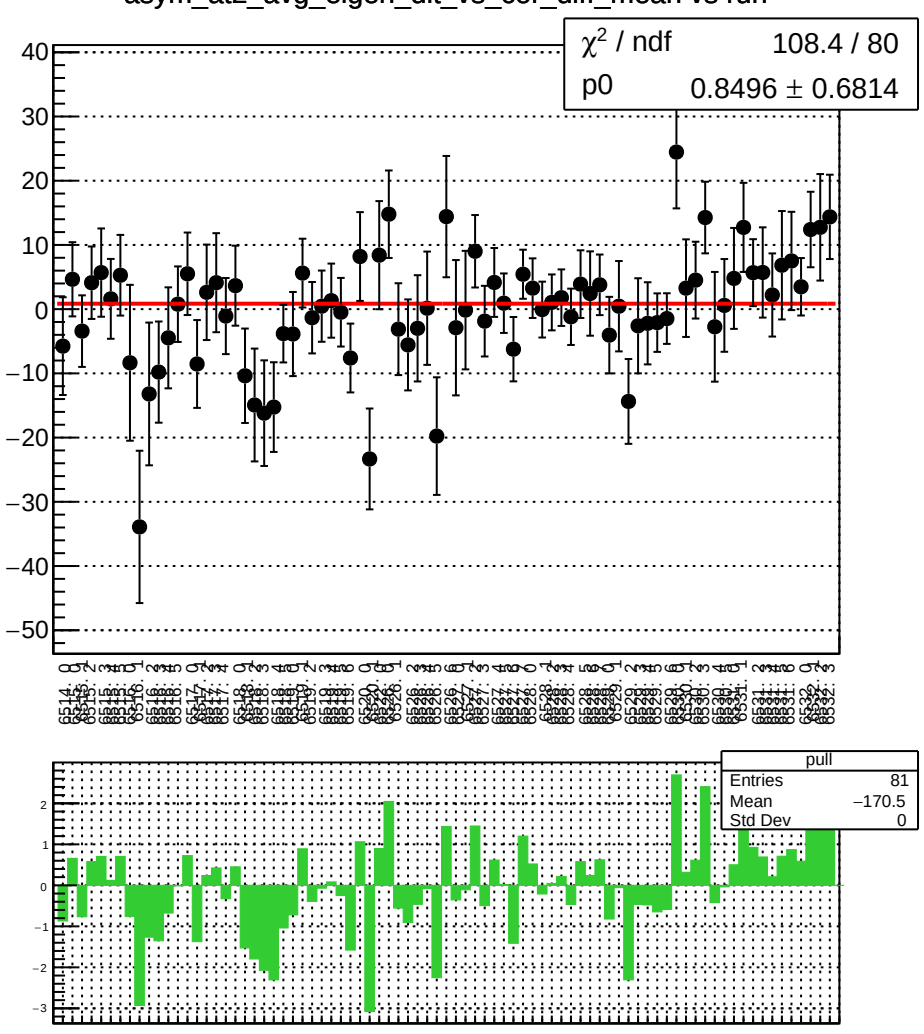

pull1D
Entries 81
Mean −0.04996
Std Dev 1.156

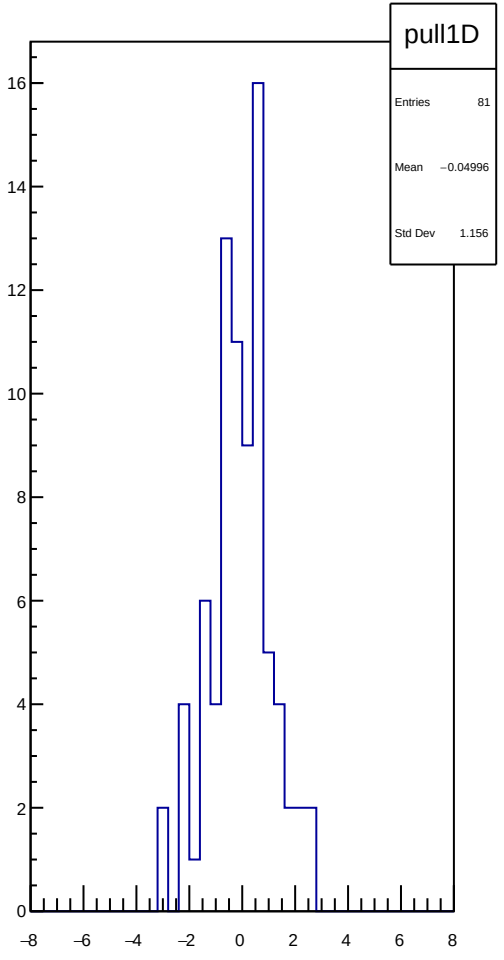

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.879e+04 / 80
p0 586.6 ± 0.4818
1200
1100
1000
900
800
700
600
500
400

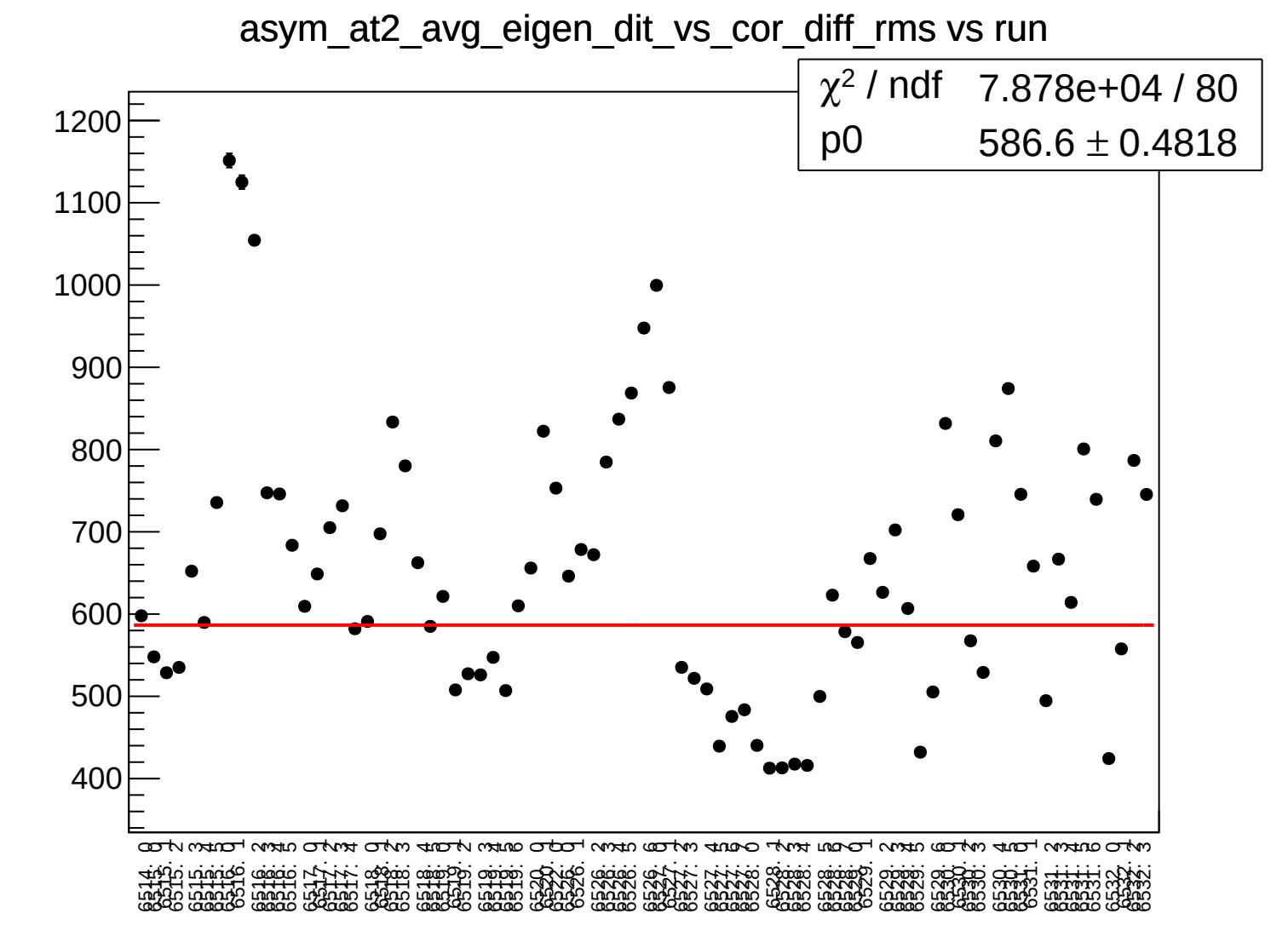

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 96.52 / 80
p0 2.814e−05 ± 2.941e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 81
Mean −61.71
Std Dev 0
3
2
1
0
−1
−2

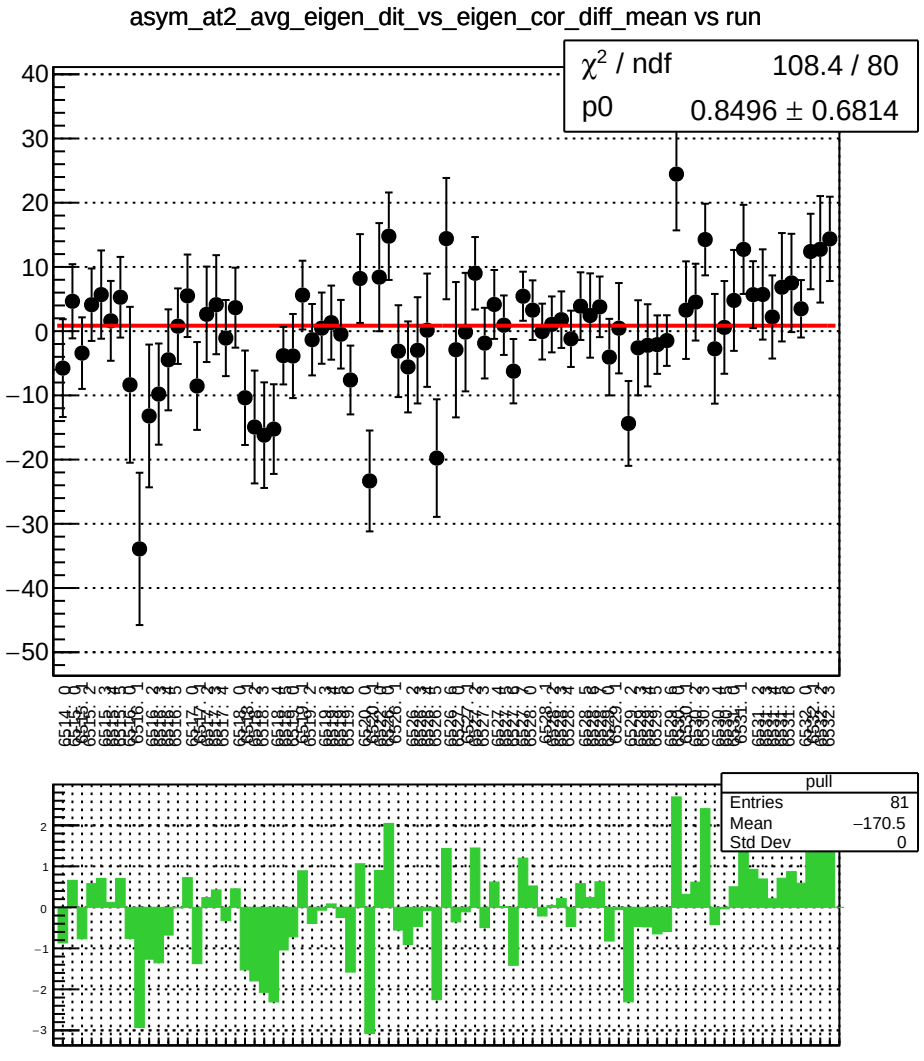

pull1D
Entries 81
Mean −0.01001
Std Dev 1.092
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

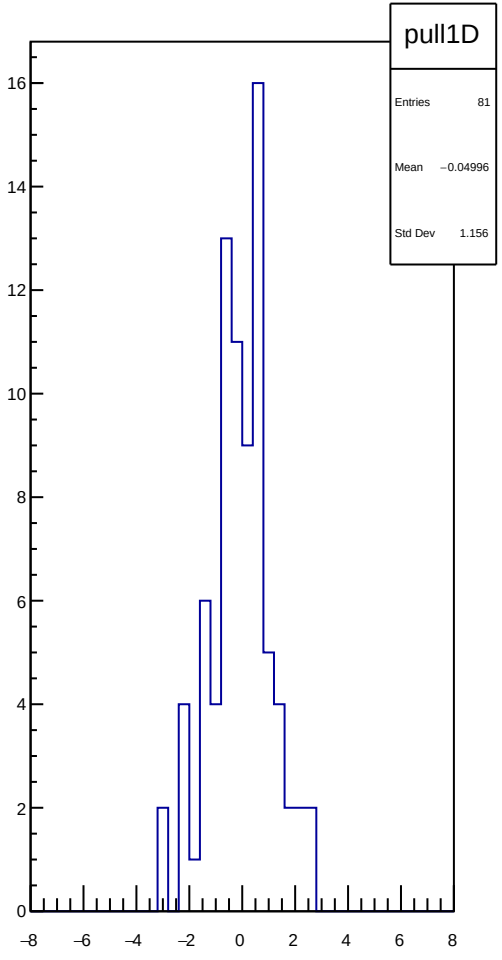

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.365e+04 / 80
p0 0.02562 ± 2.08e−05
0.032
0.03
0.028
0.026
0.024
0.022
0.02

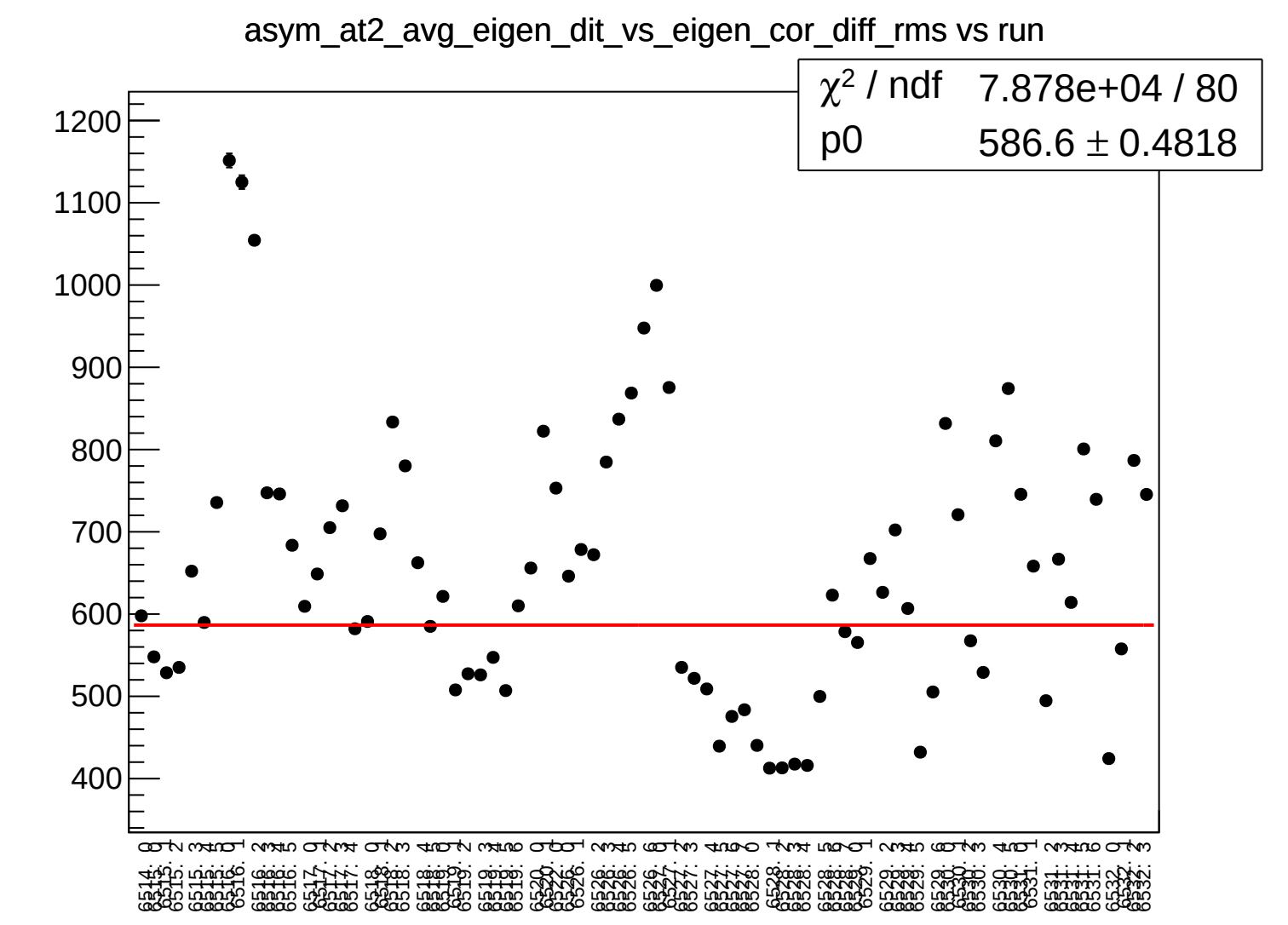

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 108.4 / 80
p0 0.8496 ± 0.6814
pull
Entries 81
Mean −170.5
Std Dev 0

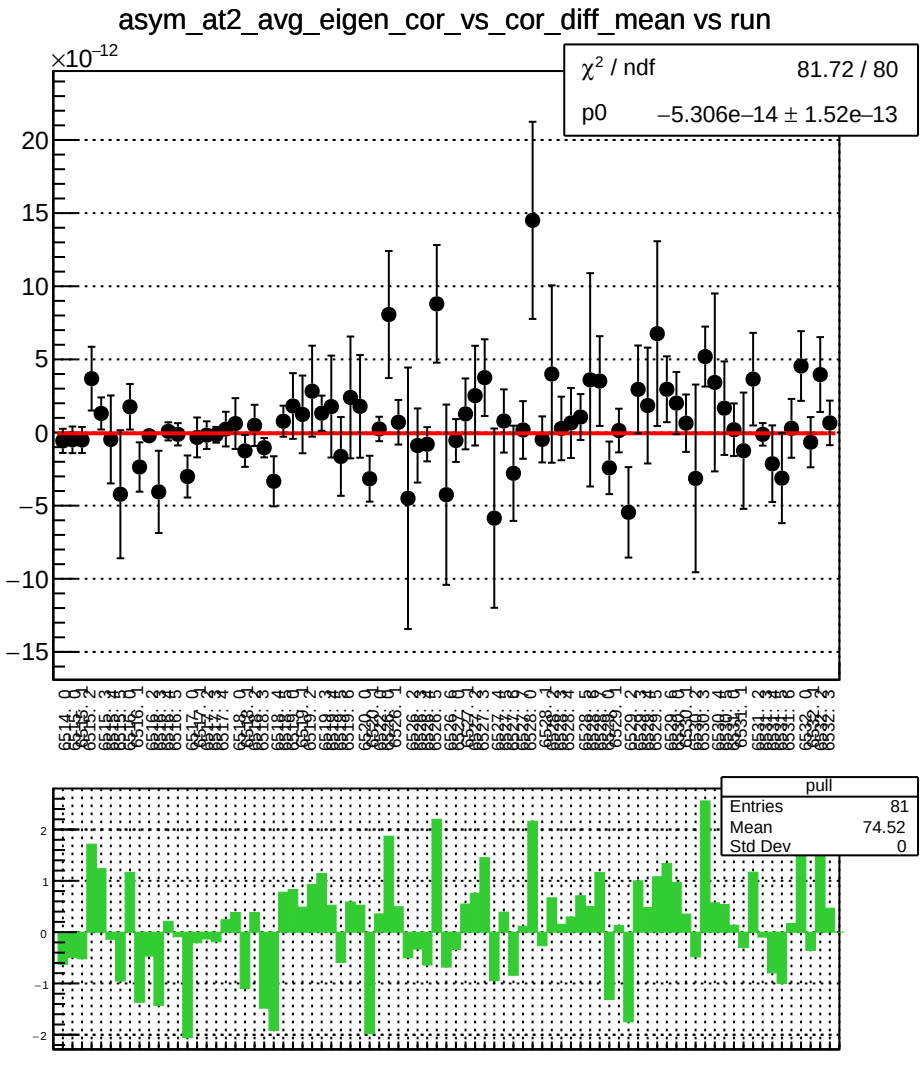

pull1D
Entries 81
Mean −0.04996
Std Dev 1.156

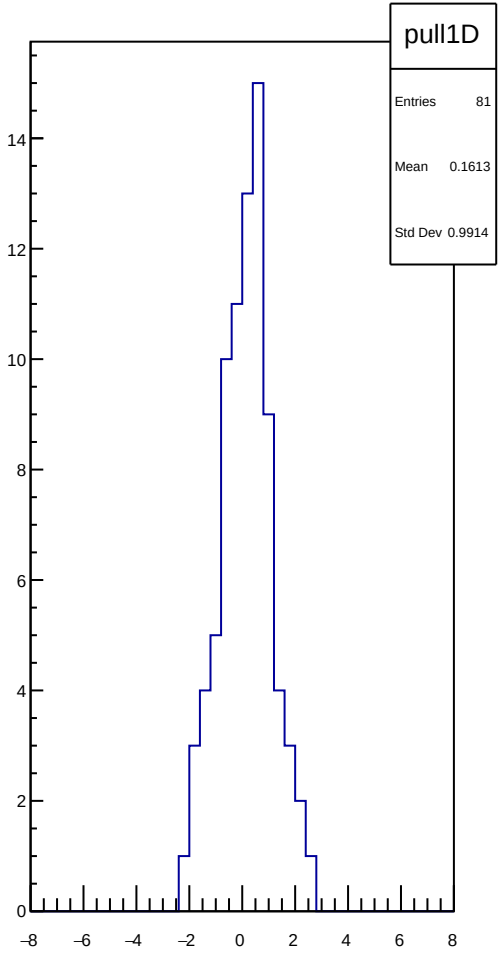

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.878e+04 / 80
p0 586.6 ± 0.4818
1200
1100
1000
900
800
700
600
500
400

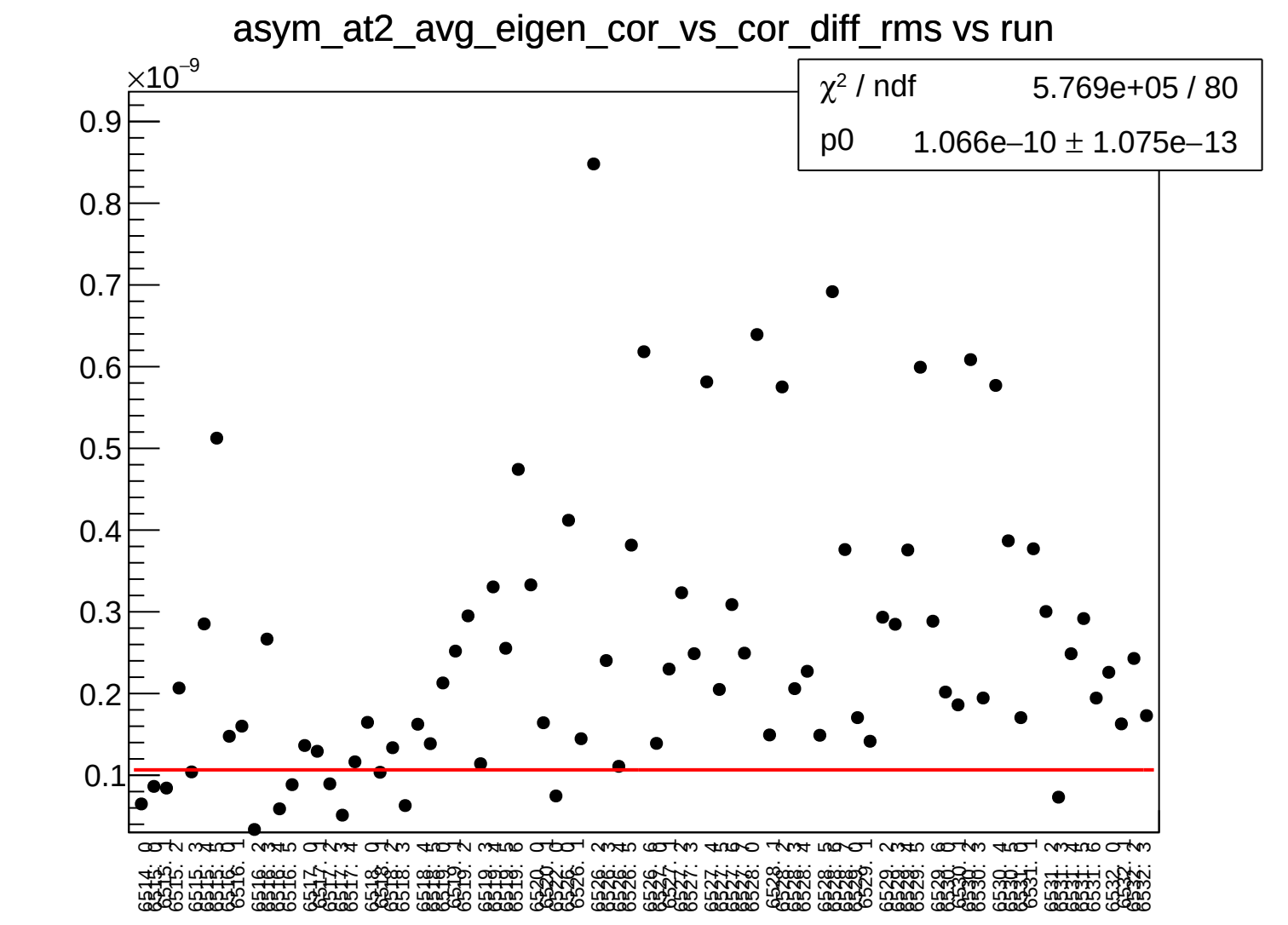

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.4 / 80
p0 0.8496 ± 0.6814
pull
Entries 81
Mean −170.5
Std Dev 0

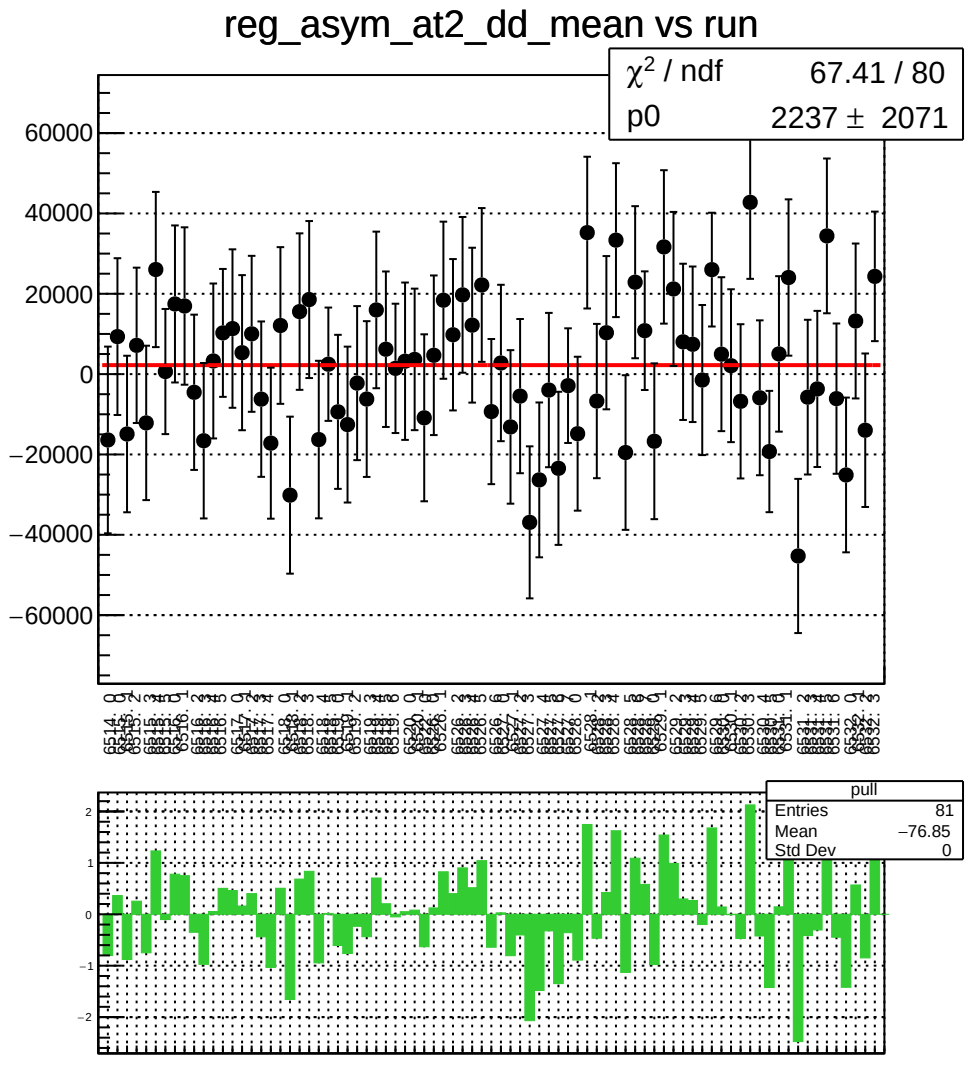

pull1D
Entries 81
Mean −0.04996
Std Dev 1.156

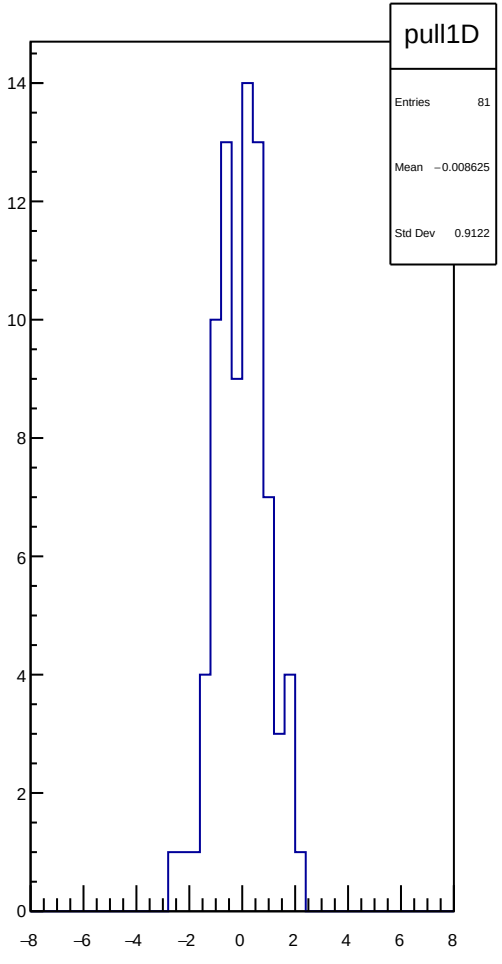

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.878e+04 / 80
p0 586.6 ± 0.4818
1200
1100
1000
900
800
700
600
500
400

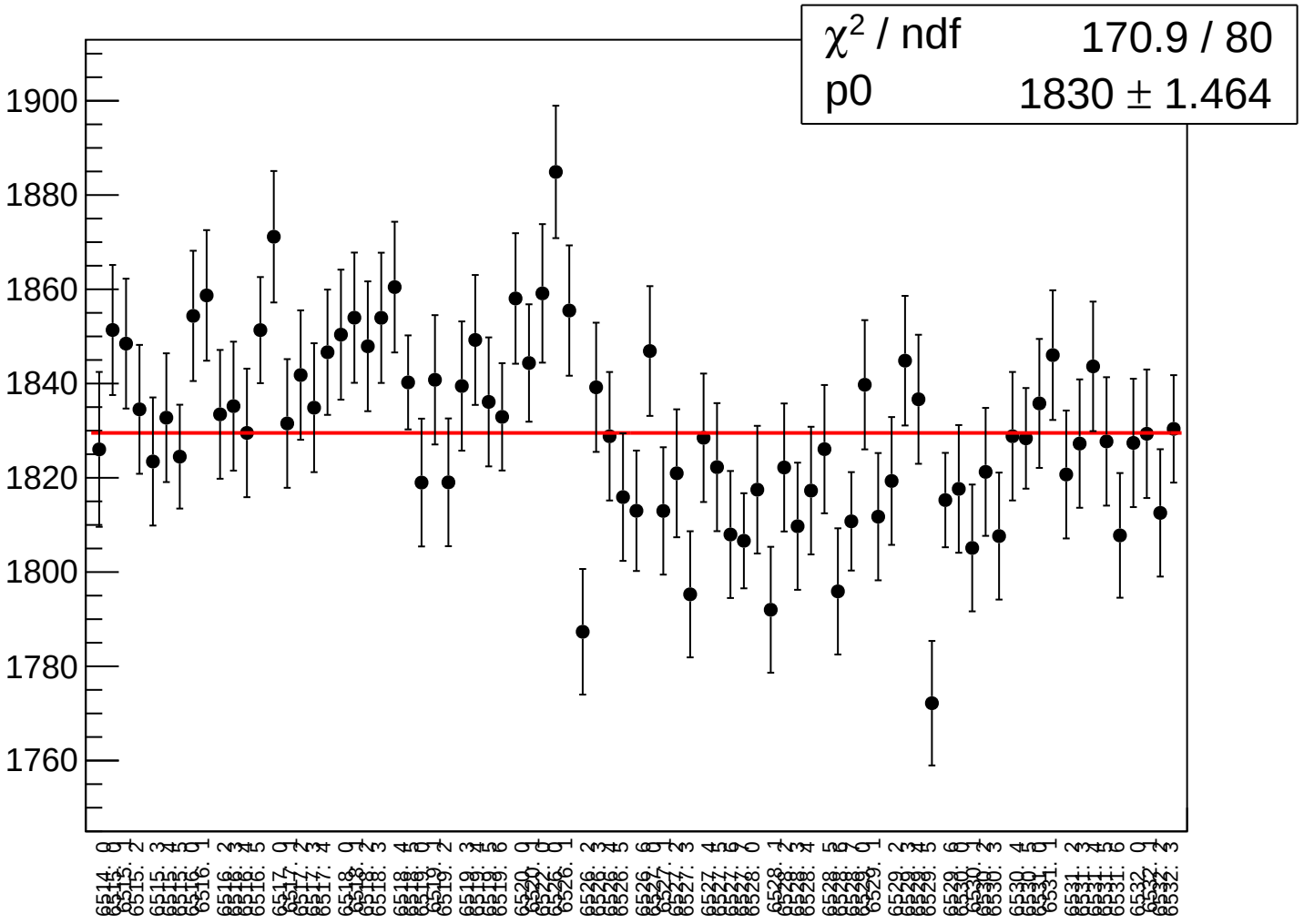

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.72 / 80
p0 −5.306e−14 ± 1.52e−13
pull
Entries 81
Mean 74.52
Std Dev 0

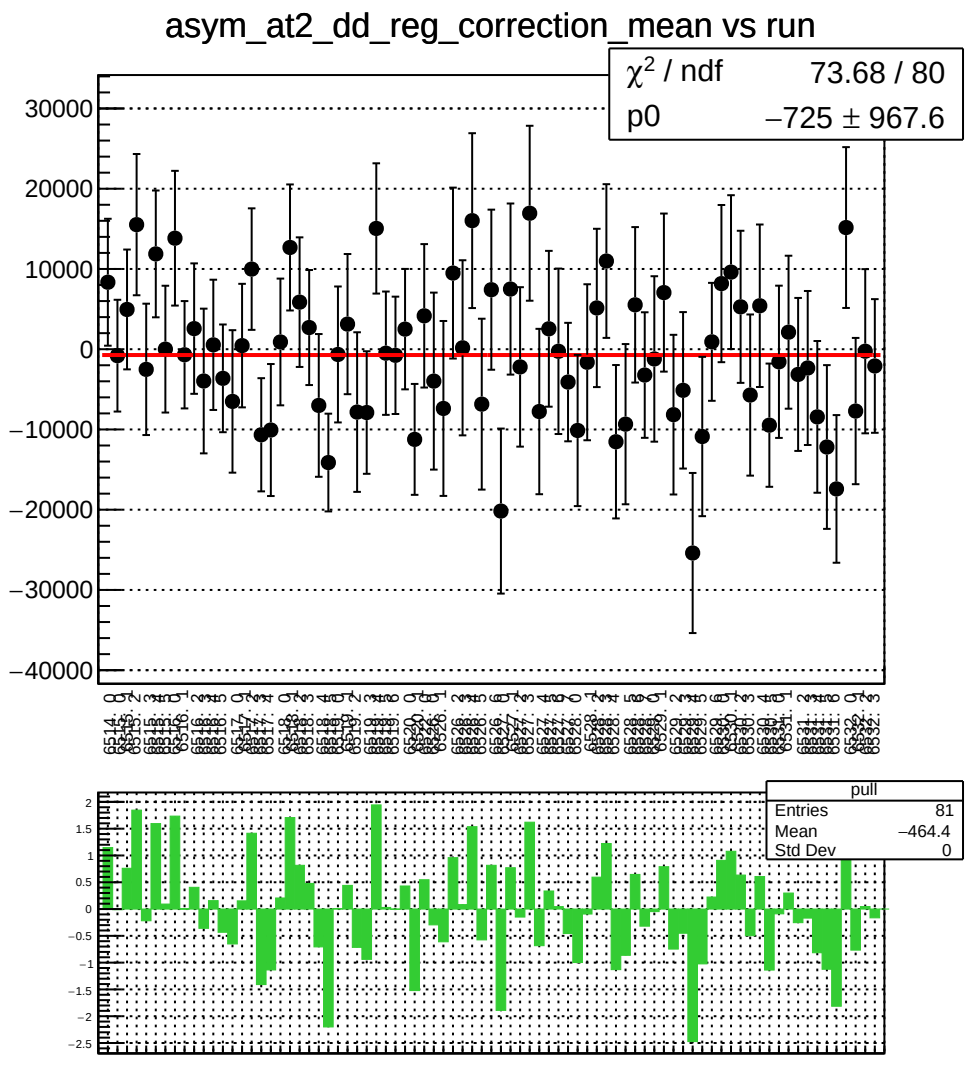

pull1D
Entries 81
Mean 0.1613
Std Dev 0.9914

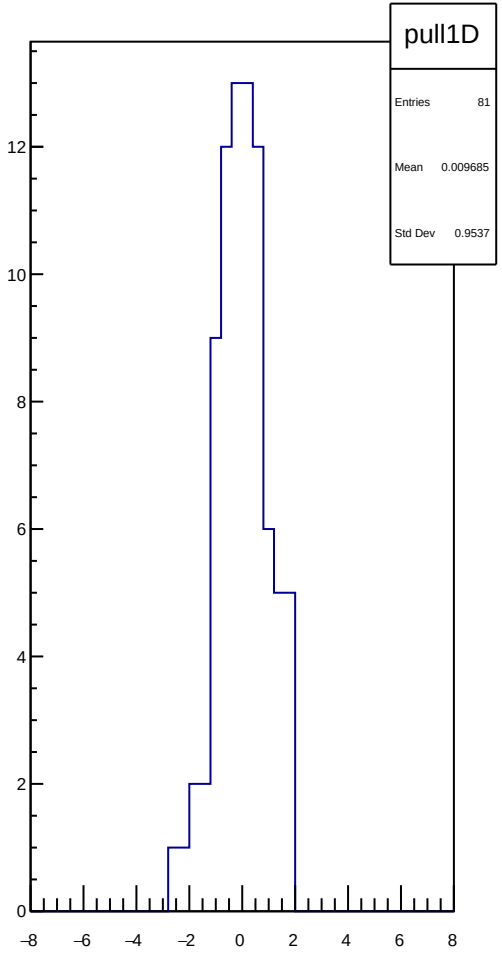

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.769e+05 / 80
p0 1.066e−10 ± 1.075e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

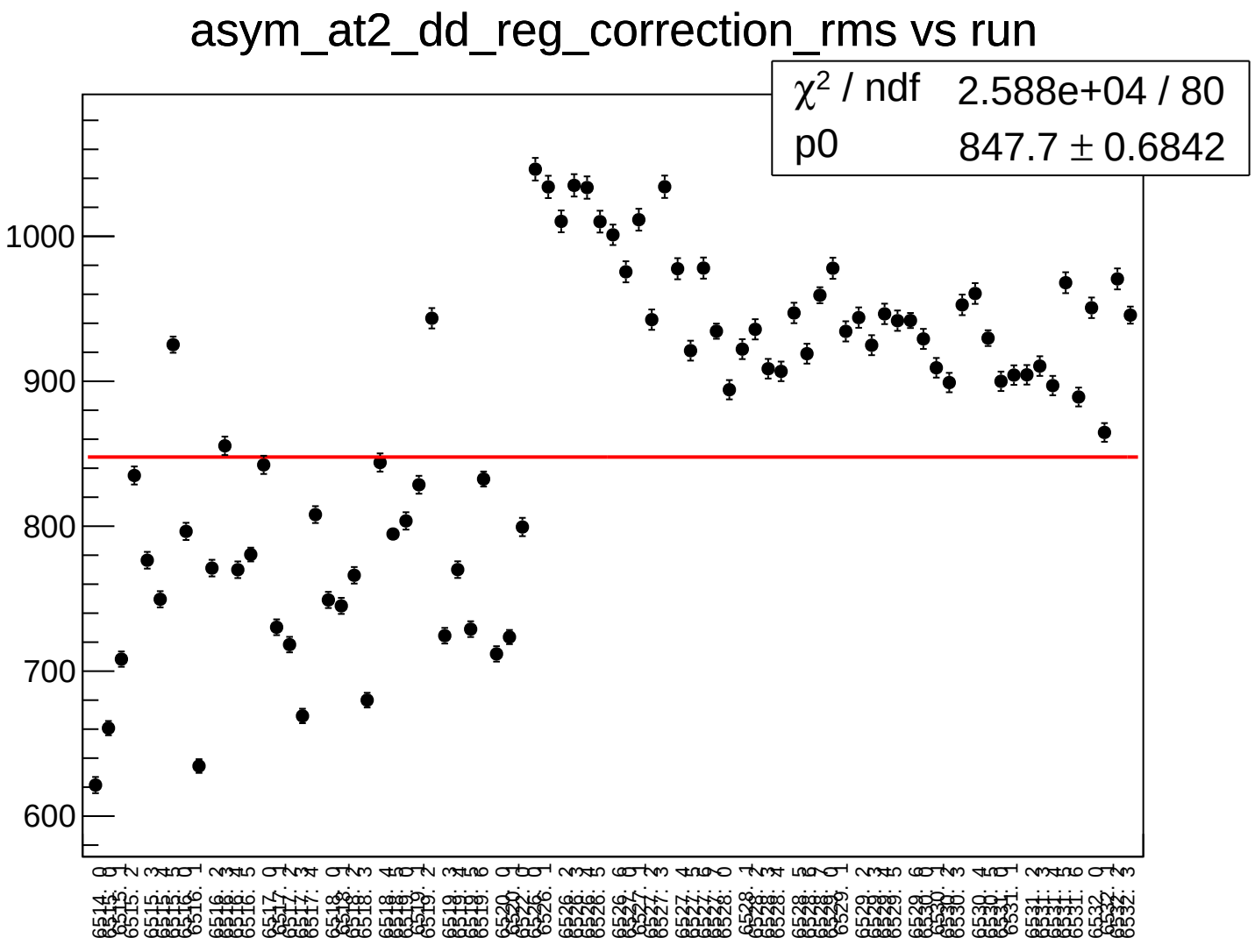

reg_asym_at2_dd_mean vs run
χ² / ndf 67.41 / 80
p0 2237 ± 2071
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −76.85
Std Dev 0
2
1
0
−1
−2

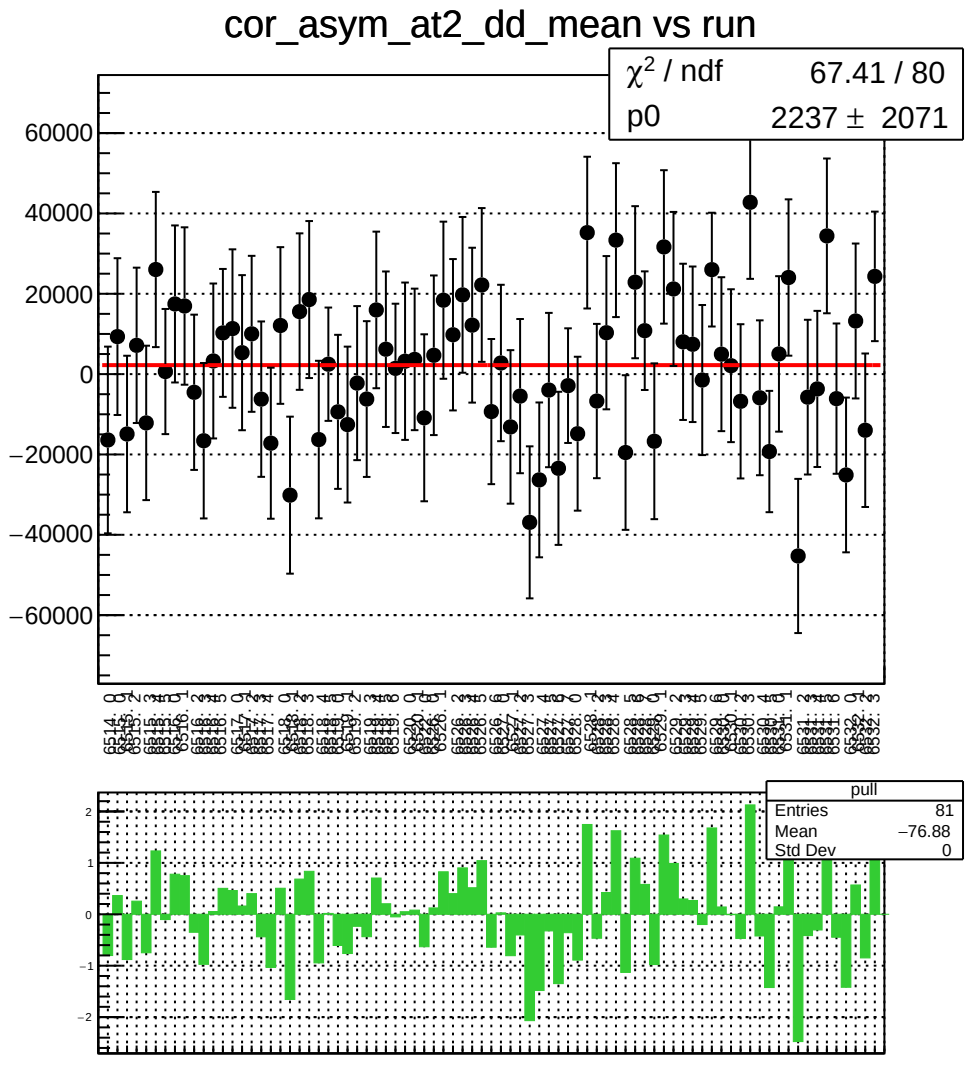

pull1D
Entries 81
Mean −0.008625
Std Dev 0.9122
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

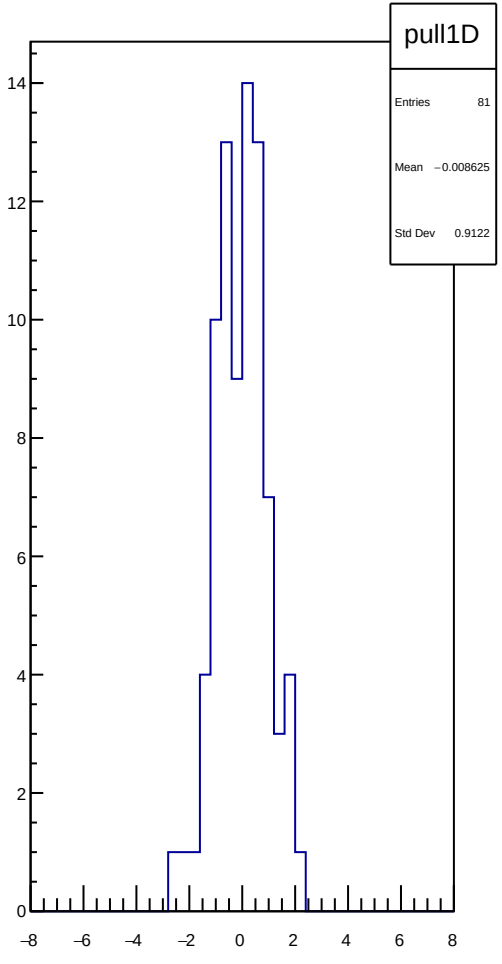

reg_asym_at2_dd_rms vs run
χ² / ndf 170.9 / 80
p0 1830 ± 1.464
1900
1880
1860
1840
1820
1800
1780
1760

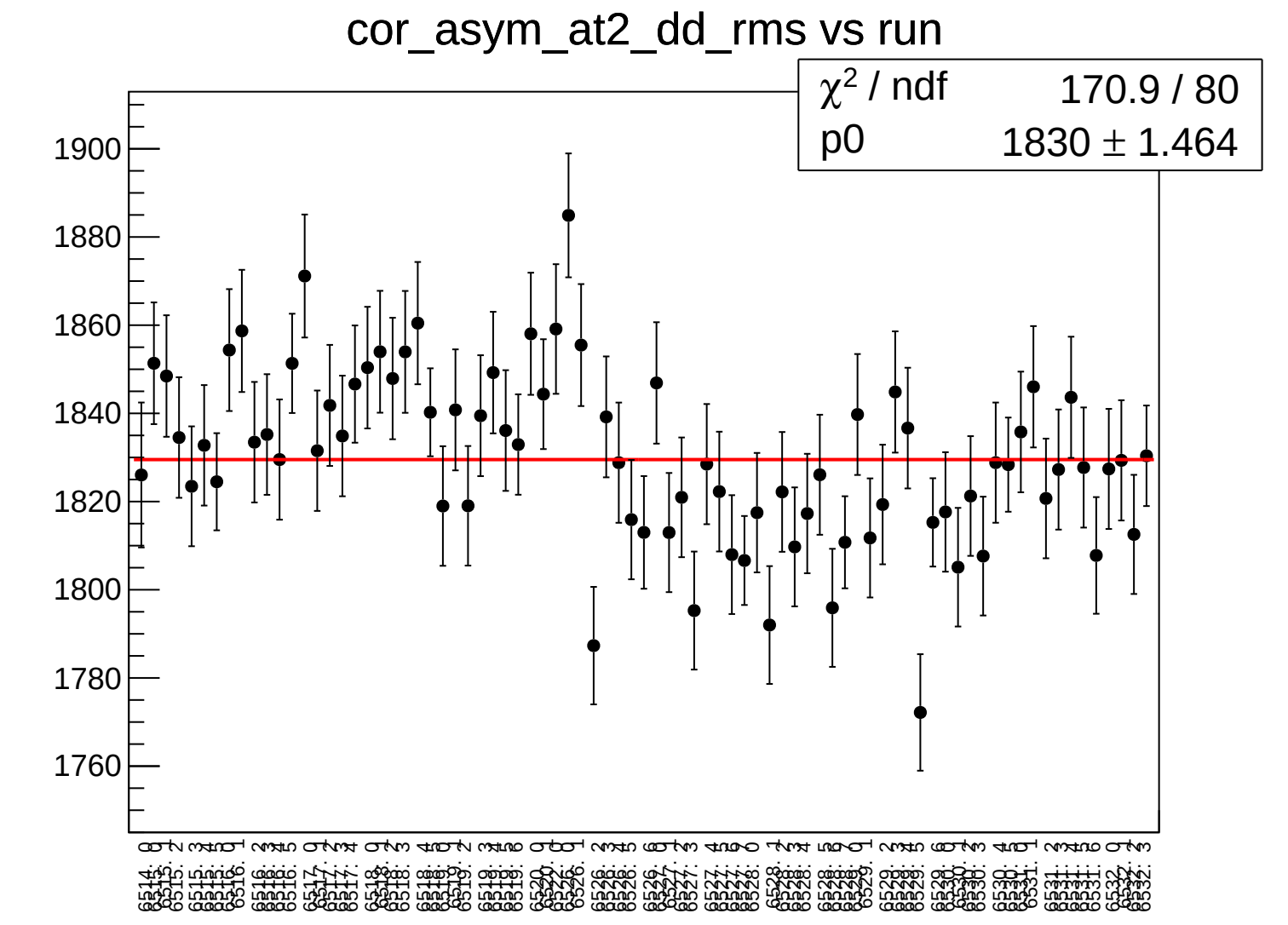

asym_at2_dd_reg_correction_mean vs run
χ² / ndf 73.68 / 80
p0 −725 ± 967.6
pull
Entries 81
Mean −464.4
Std Dev 0

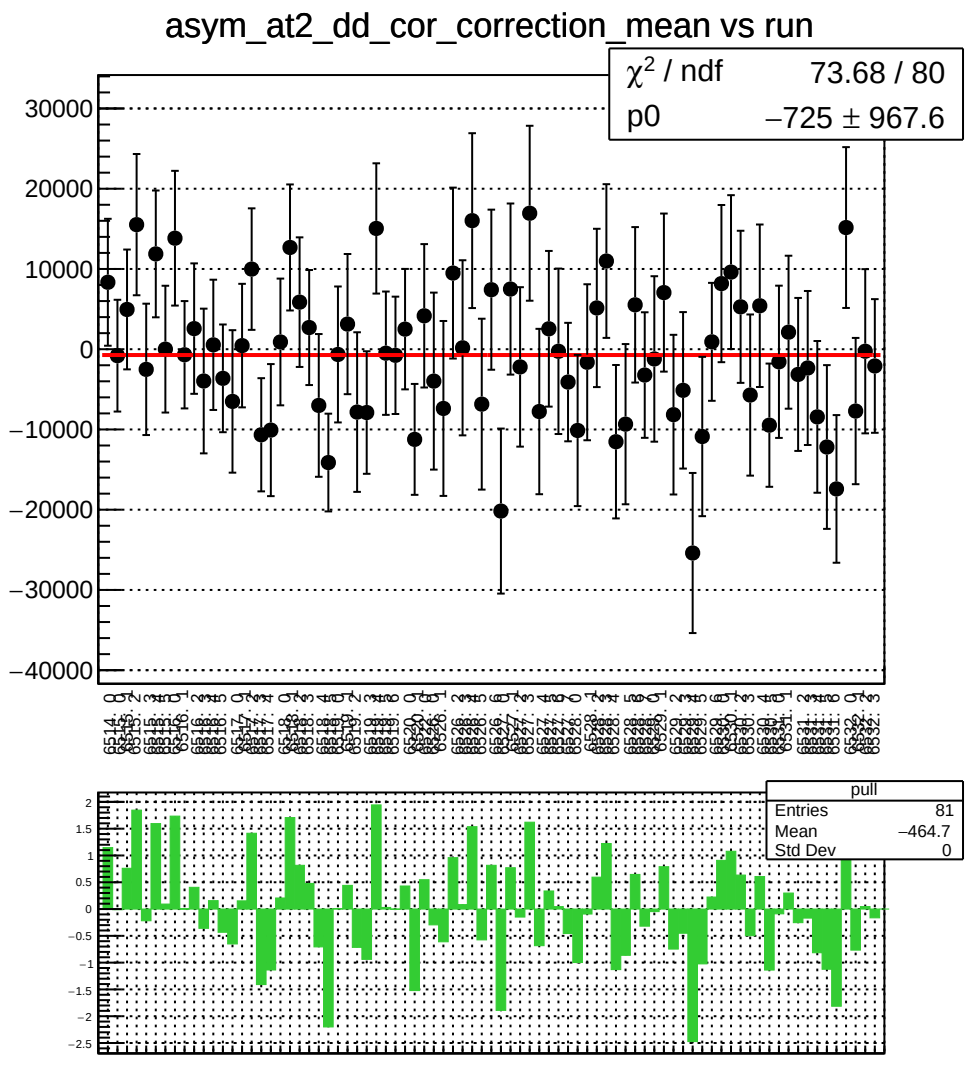

pull1D
Entries 81
Mean 0.009685
Std Dev 0.9537

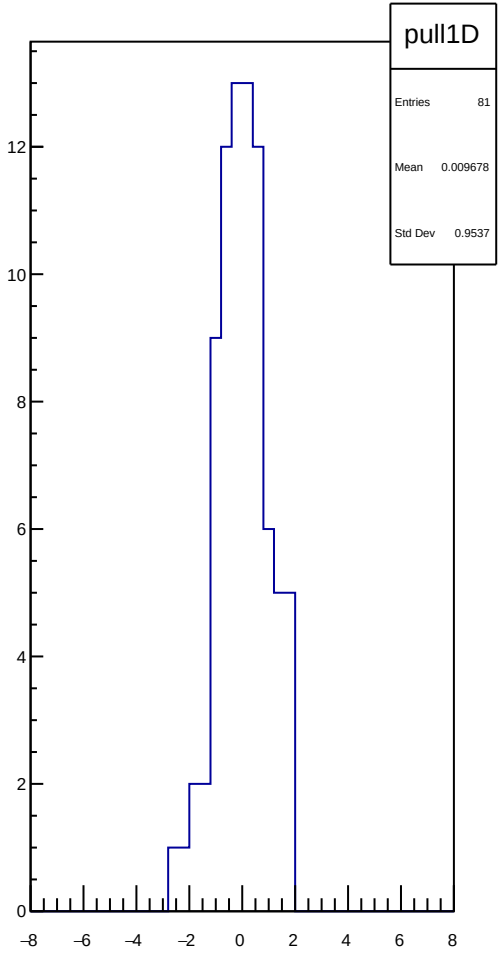

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 2.588e+04 / 80
p0 847.7 ± 0.6842
1000
900
800
700
600

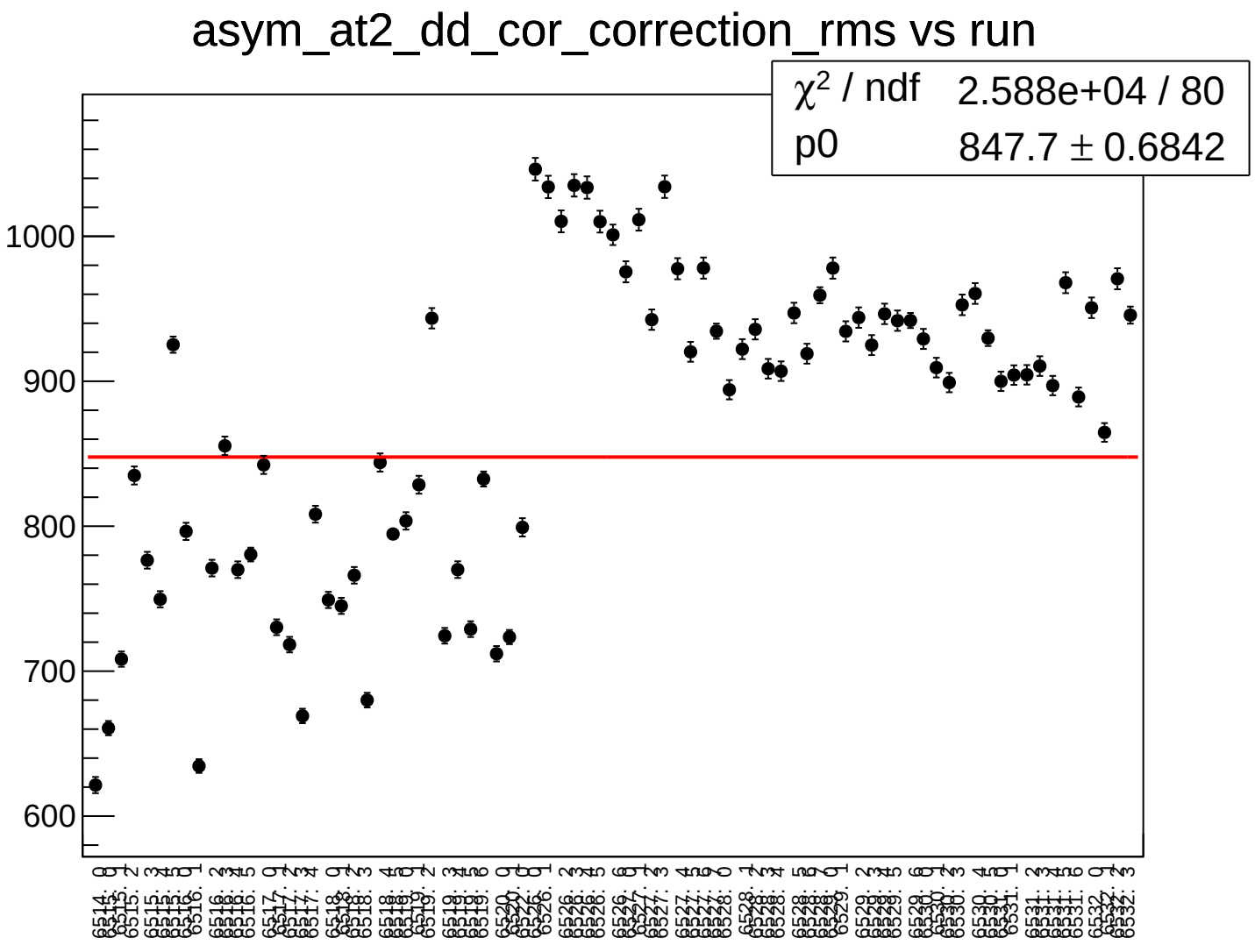

cor_asym_at2_dd_mean vs run
χ² / ndf 67.41 / 80
p0 2237 ± 2071
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −76.88
Std Dev 0
2
1
0
−1
−2

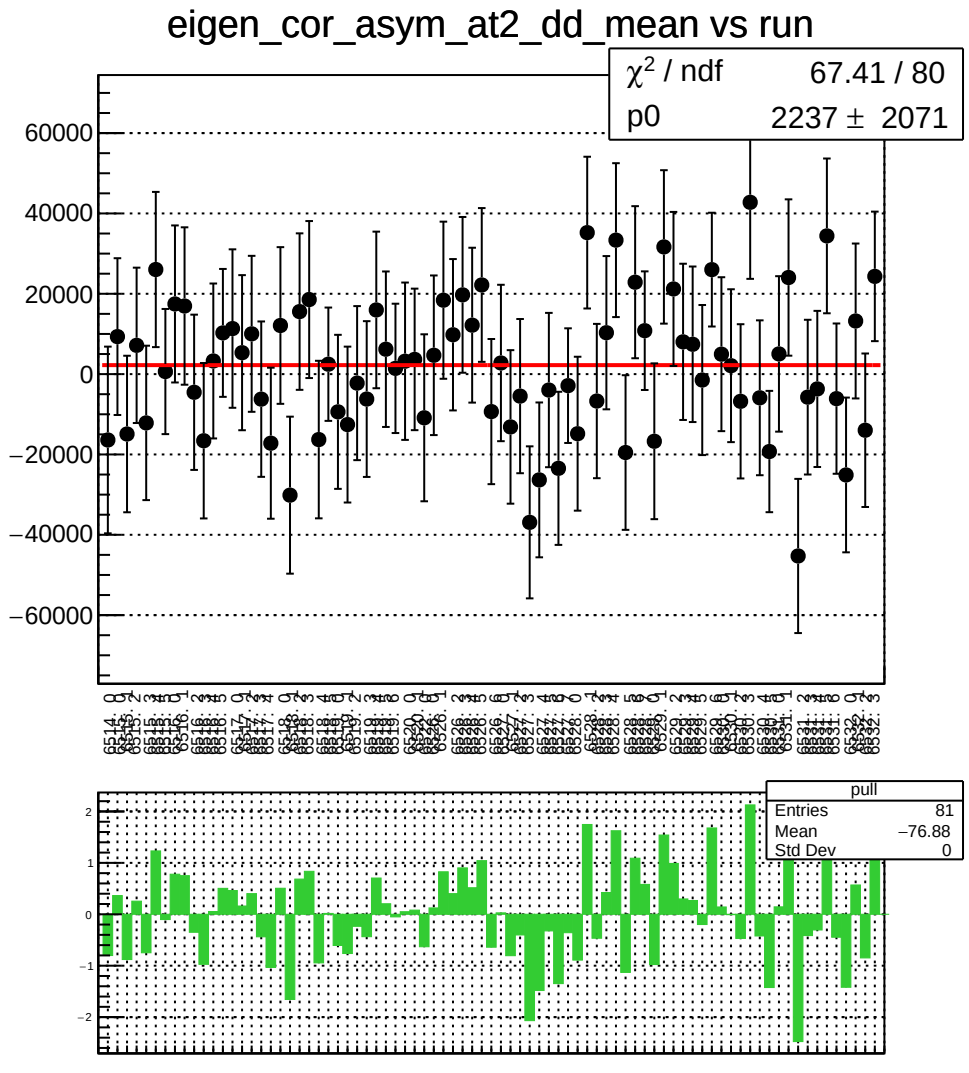

pull1D
Entries 81
Mean −0.008625
Std Dev 0.9122
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

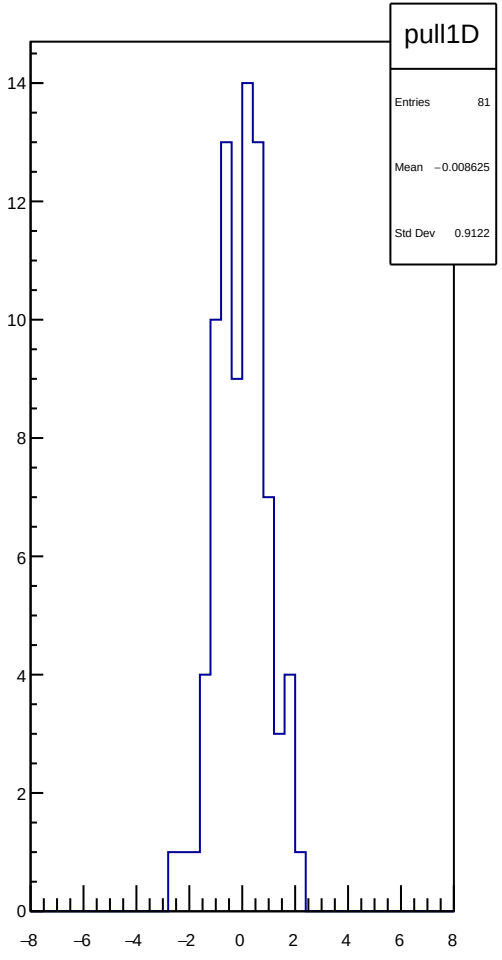

cor_asym_at2_dd_rms vs run
χ² / ndf 170.9 / 80
p0 1830 ± 1.464
1900
1880
1860
1840
1820
1800
1780
1760

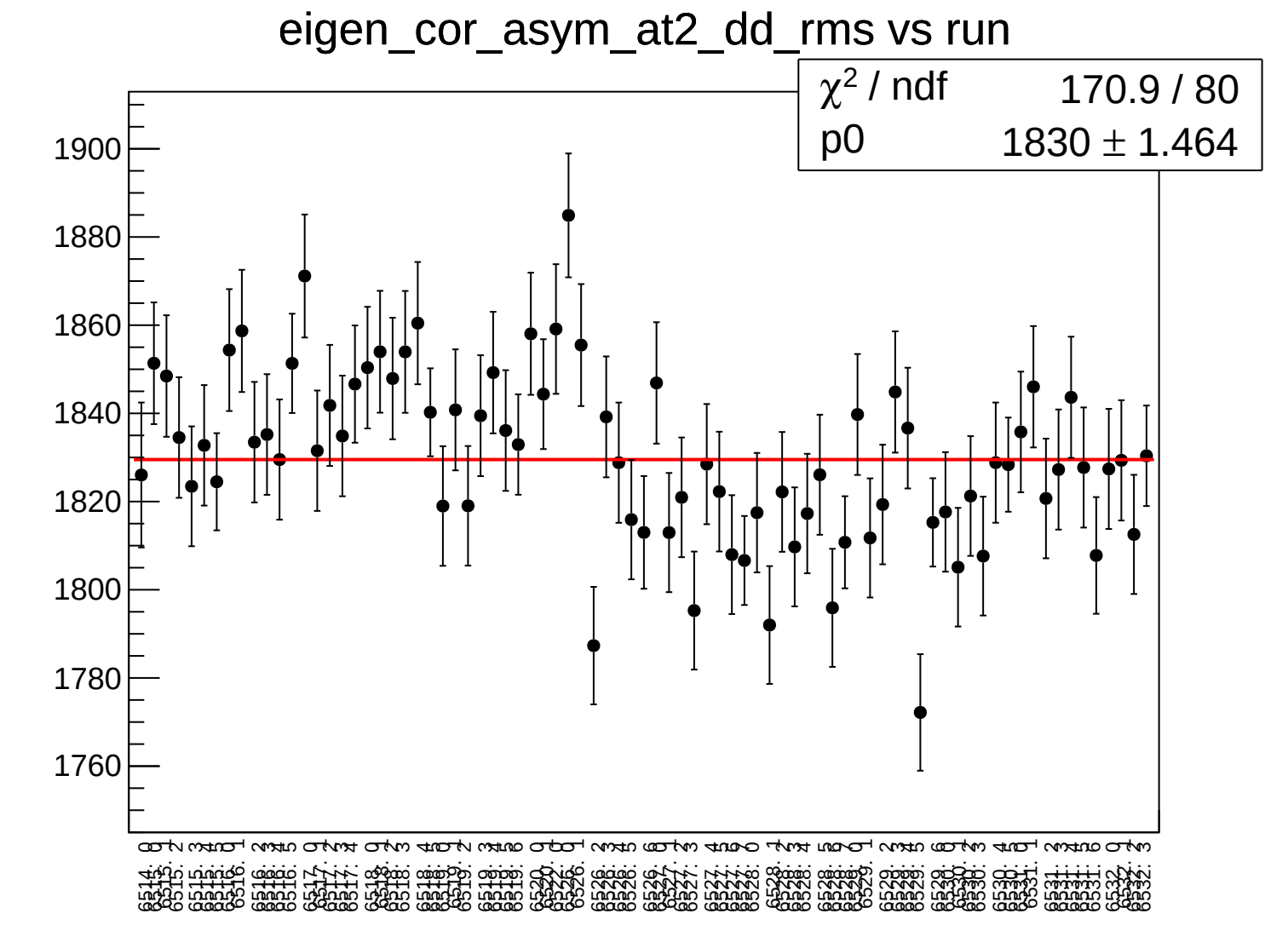

asym_at2_dd_cor_correction_mean vs run
χ² / ndf 73.68 / 80
p0 −725 ± 967.6
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 81
Mean −464.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

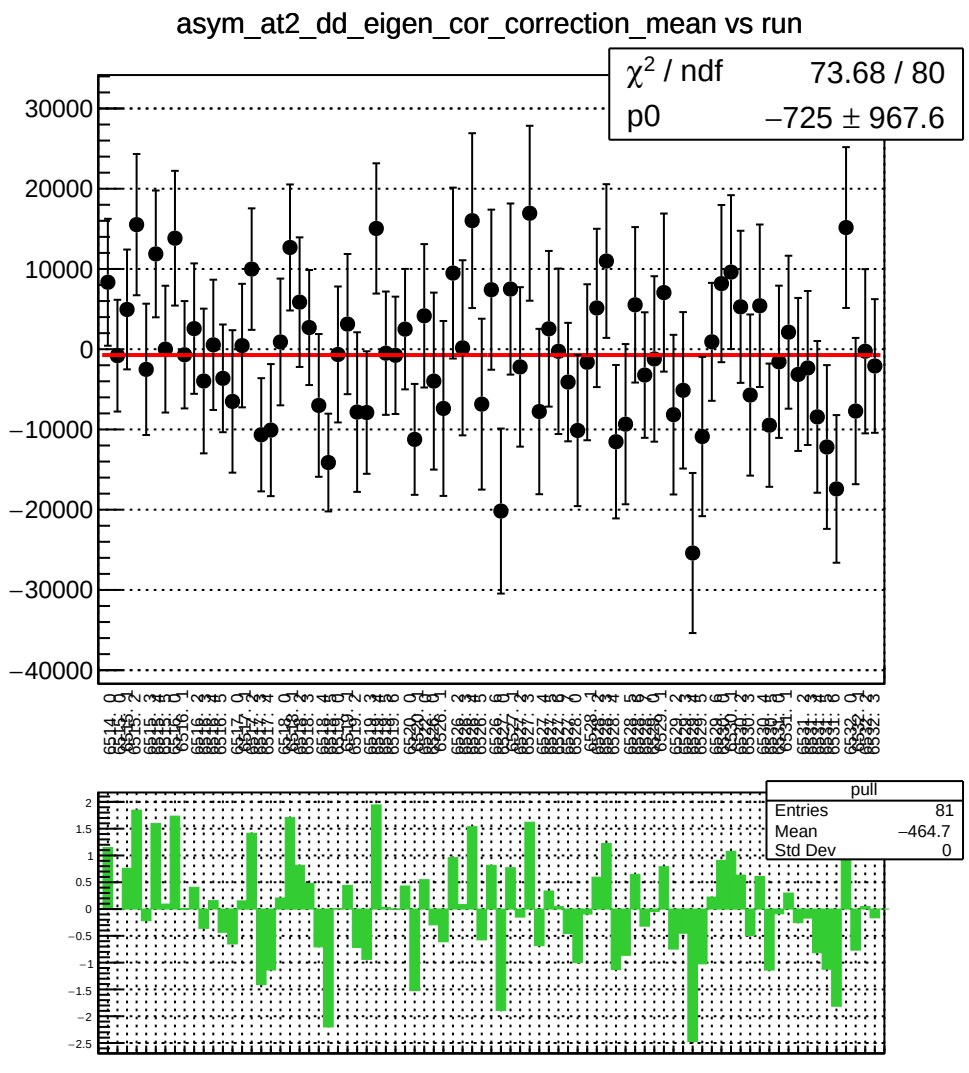

pull1D
Entries 81
Mean 0.009678
Std Dev 0.9537
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

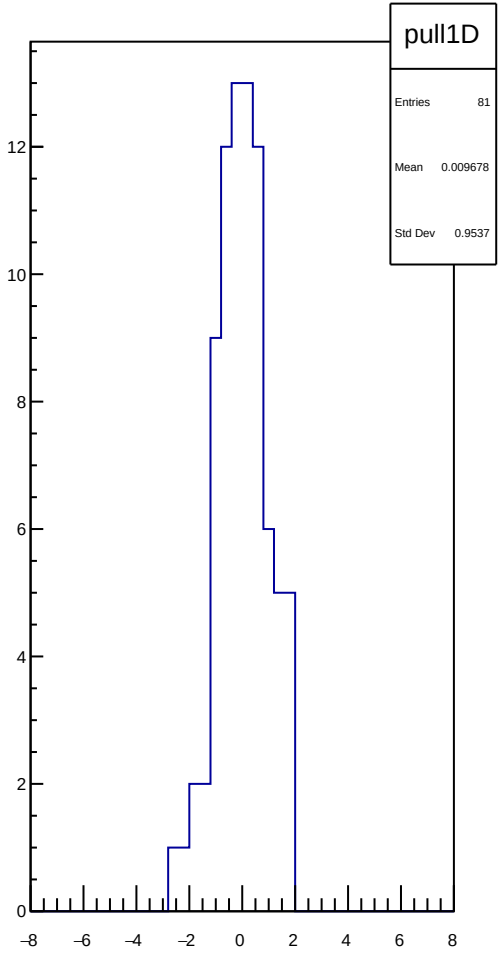

asym_at2_dd_cor_correction_rms vs run
χ² / ndf 2.588e+04 / 80
p0 847.7 ± 0.6842
1000
900
800
700
600

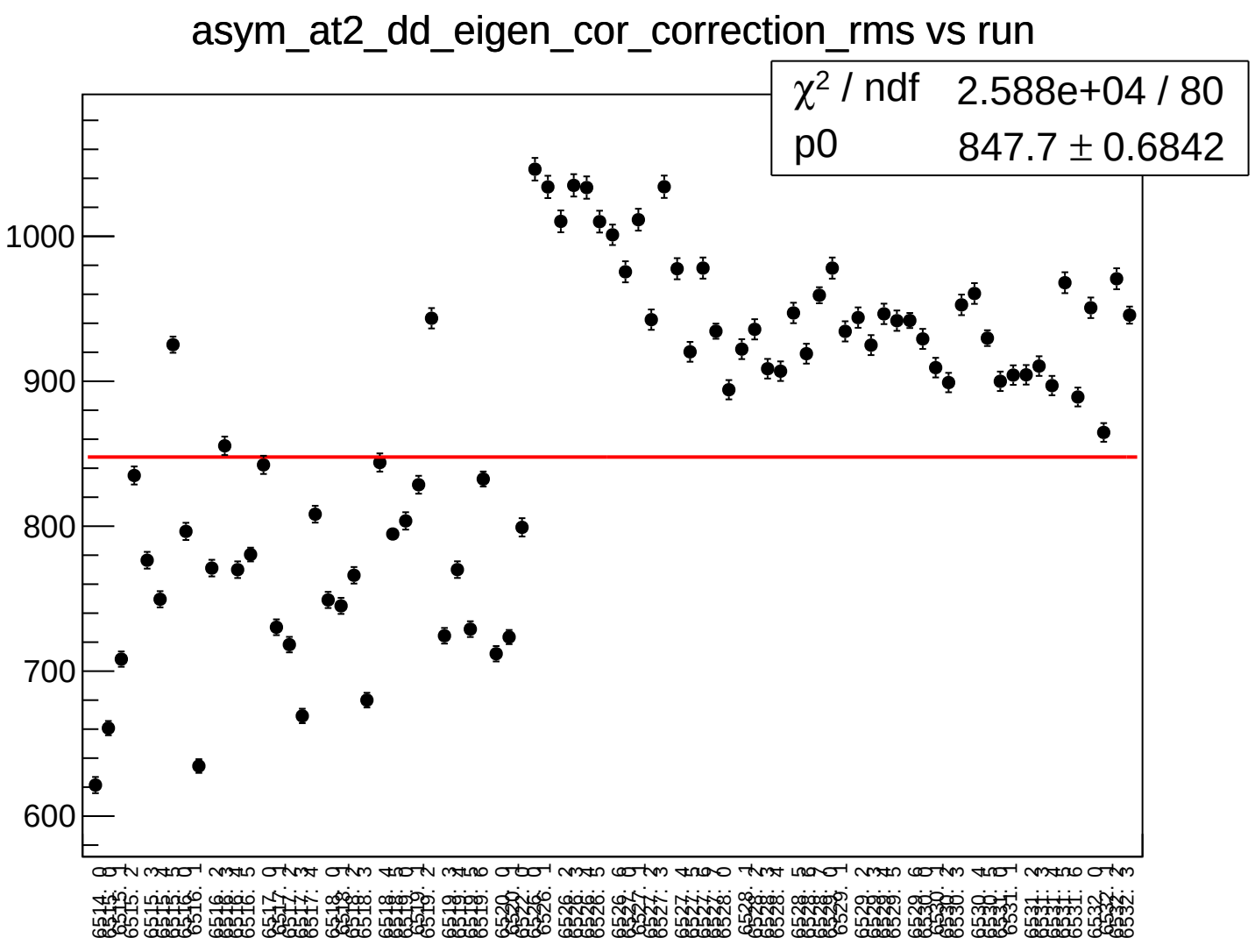

eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 67.41 / 80
p0 2237 ± 2071
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −76.88
Std Dev 0
2
1
0
−1
−2

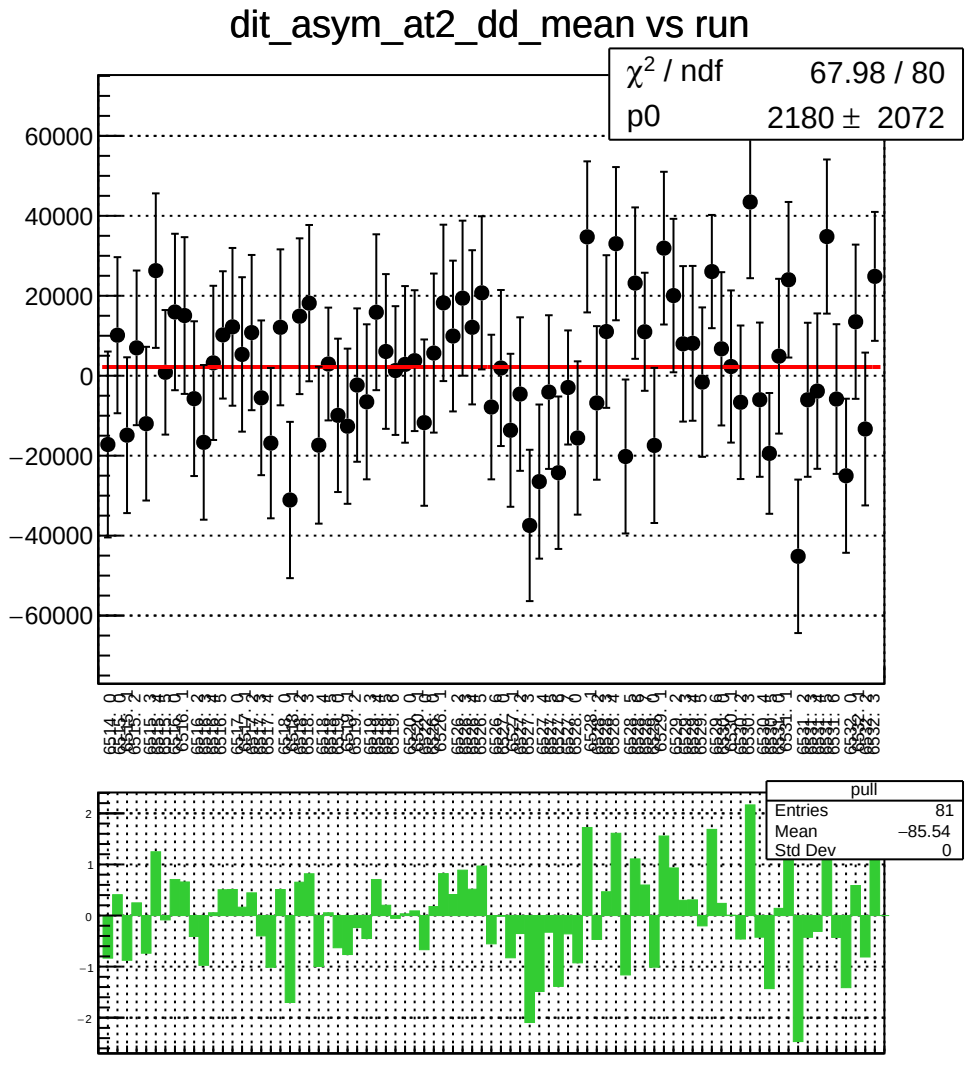

pull1D
Entries 81
Mean −0.008625
Std Dev 0.9122
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

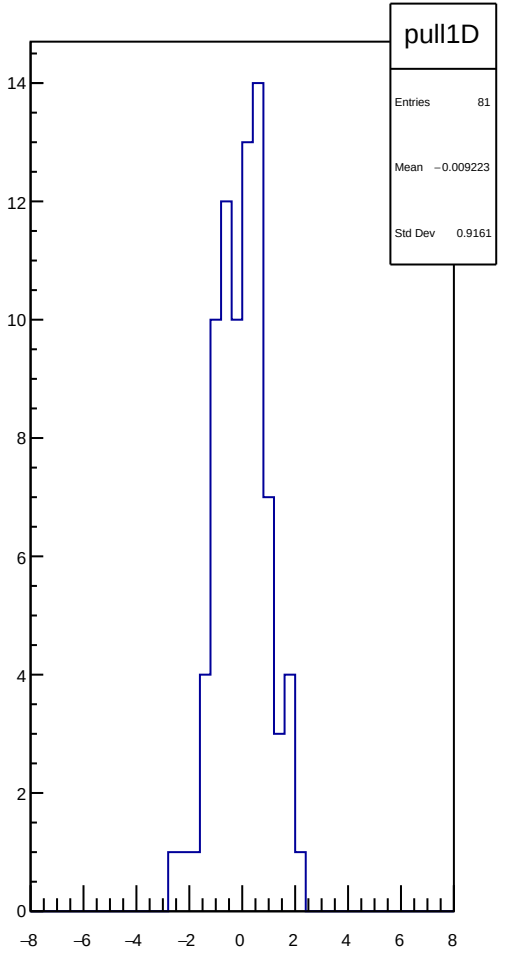

eigen_cor_asym_at2_dd_rms vs run
χ² / ndf 170.9 / 80
p0 1830 ± 1.464
1900
1880
1860
1840
1820
1800
1780
1760

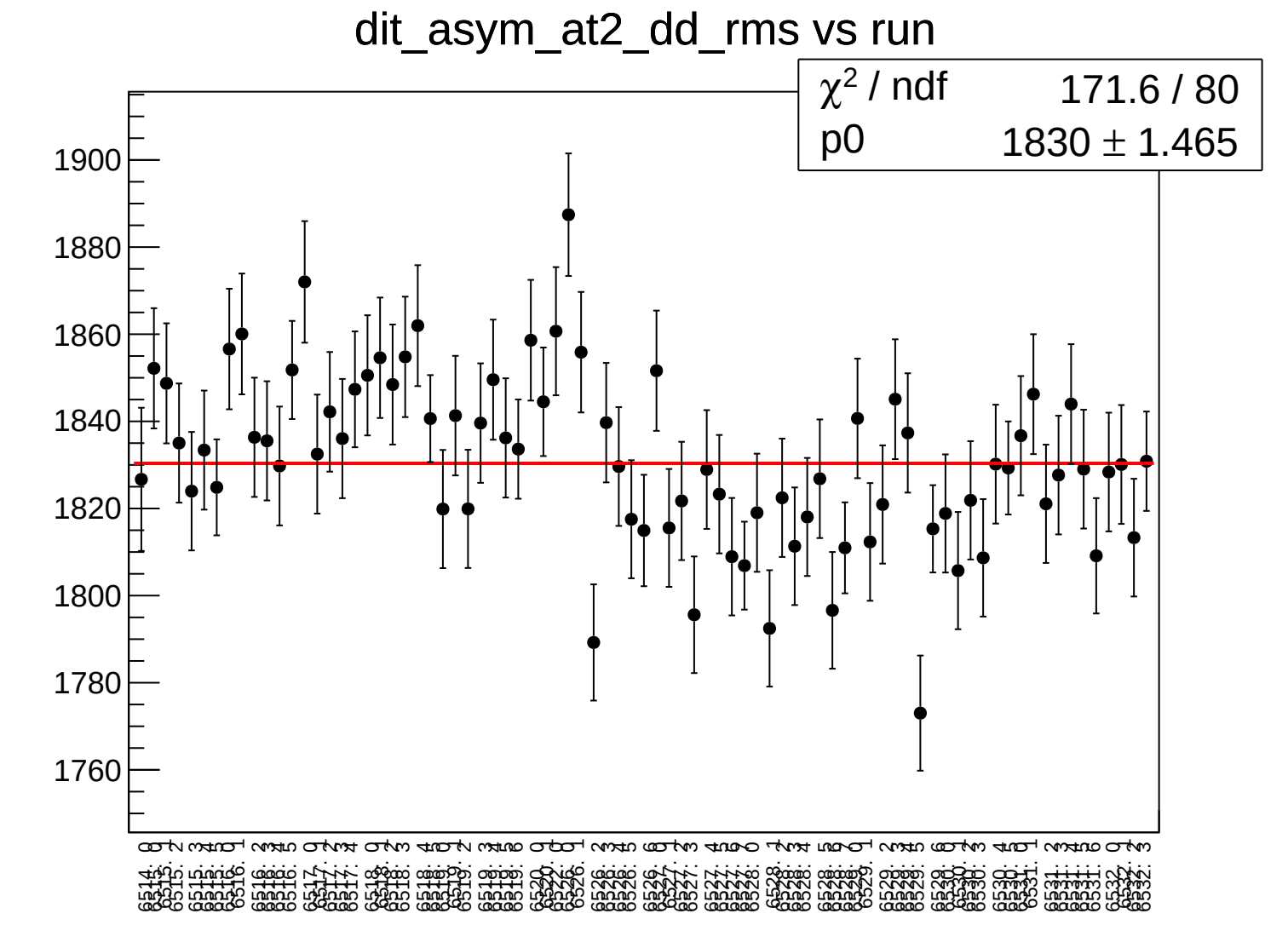

asym_at2_dd_eigen_cor_correction_mean vs run
χ² / ndf 73.68 / 80
p0 −725 ± 967.6
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 81
Mean −464.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

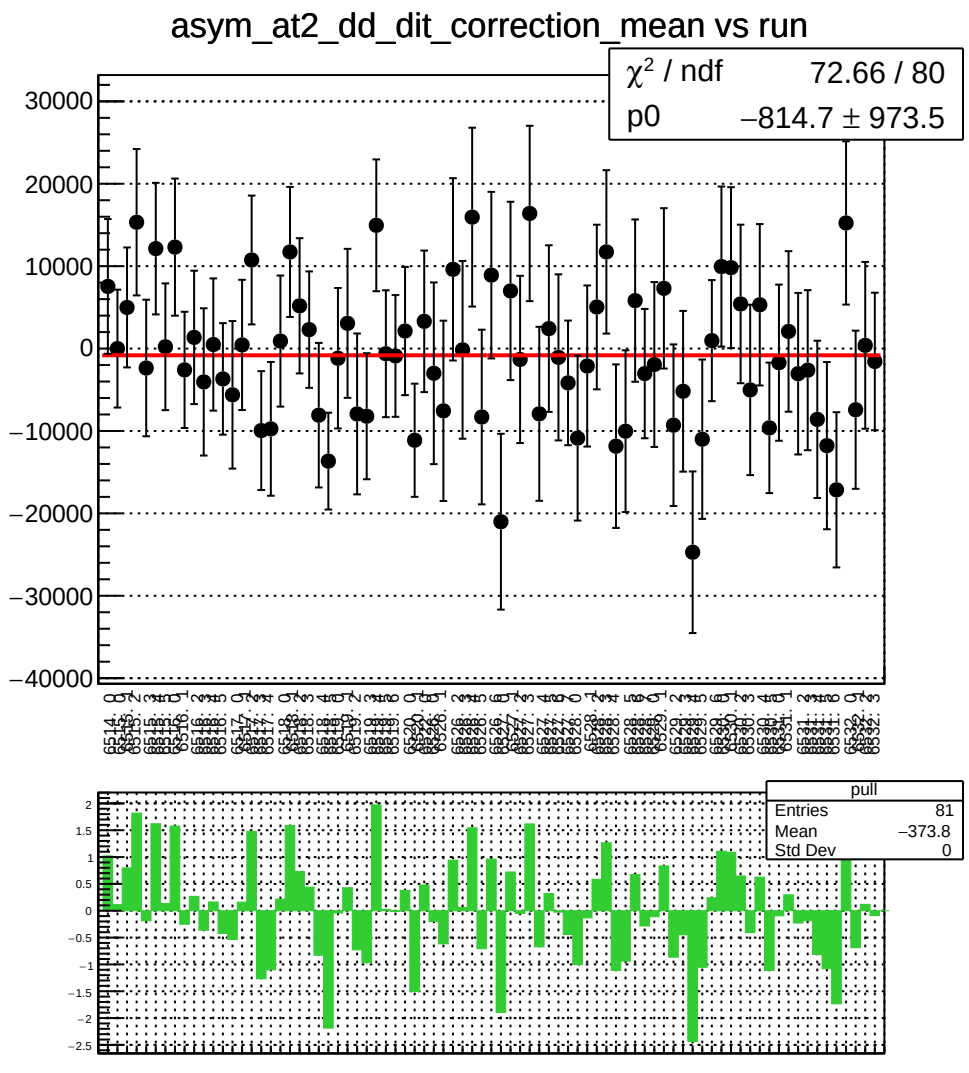

pull1D
Entries 81
Mean 0.009678
Std Dev 0.9537
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

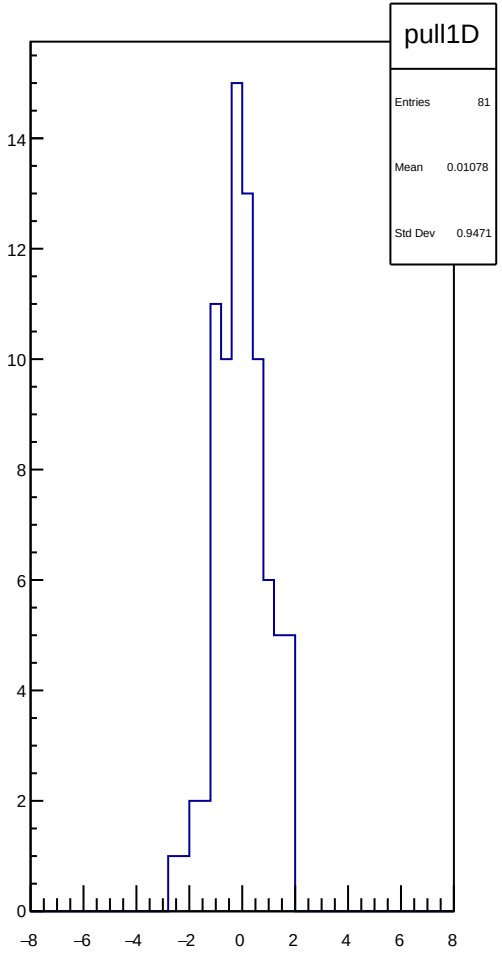

asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.588e+04 / 80
p0 847.7 ± 0.6842
1000
900
800
700
600

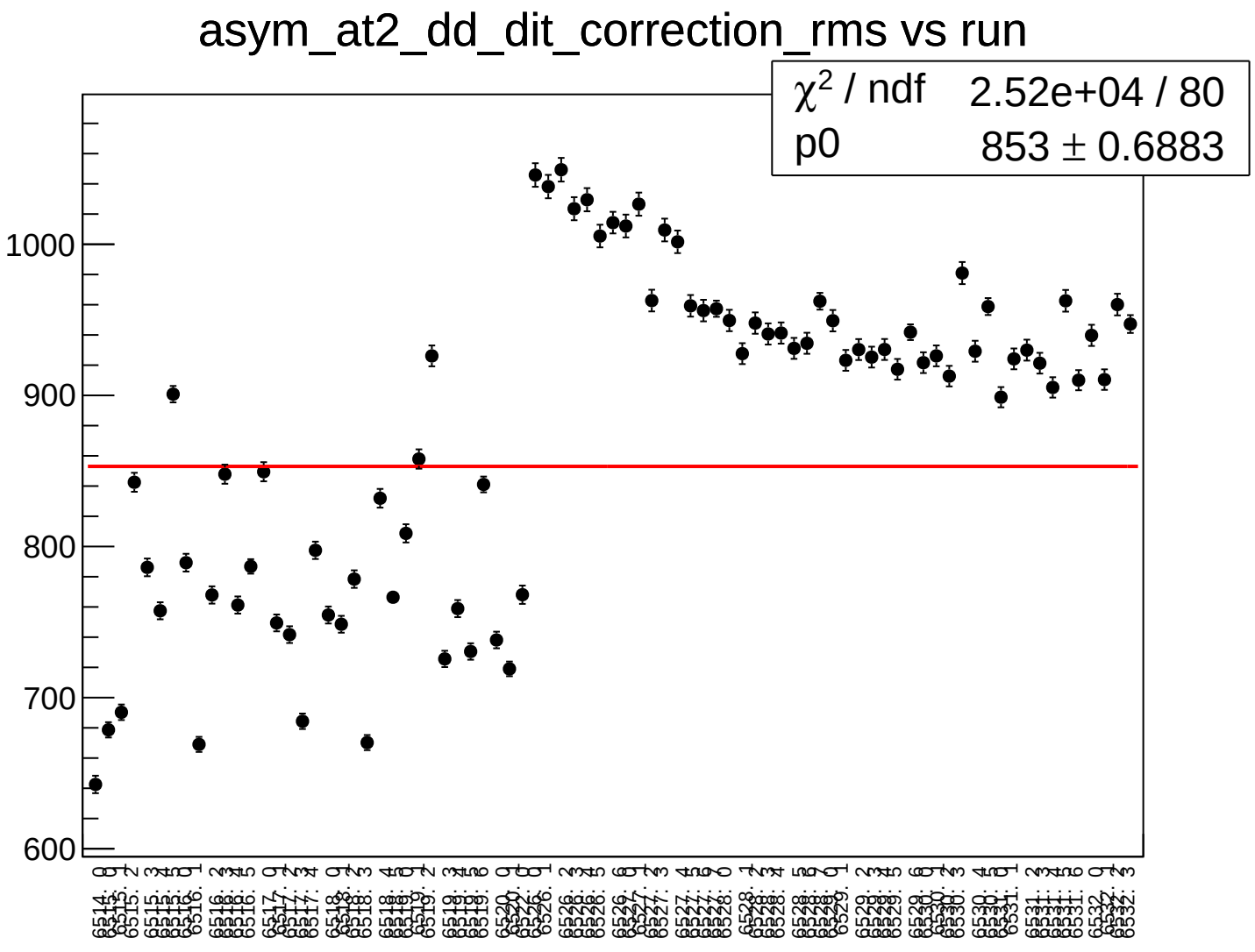

dit_asym_at2_dd_mean vs run
χ² / ndf 67.98 / 80
p0 2180 ± 2072
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −85.54
Std Dev 0
2
1
0
−1
−2

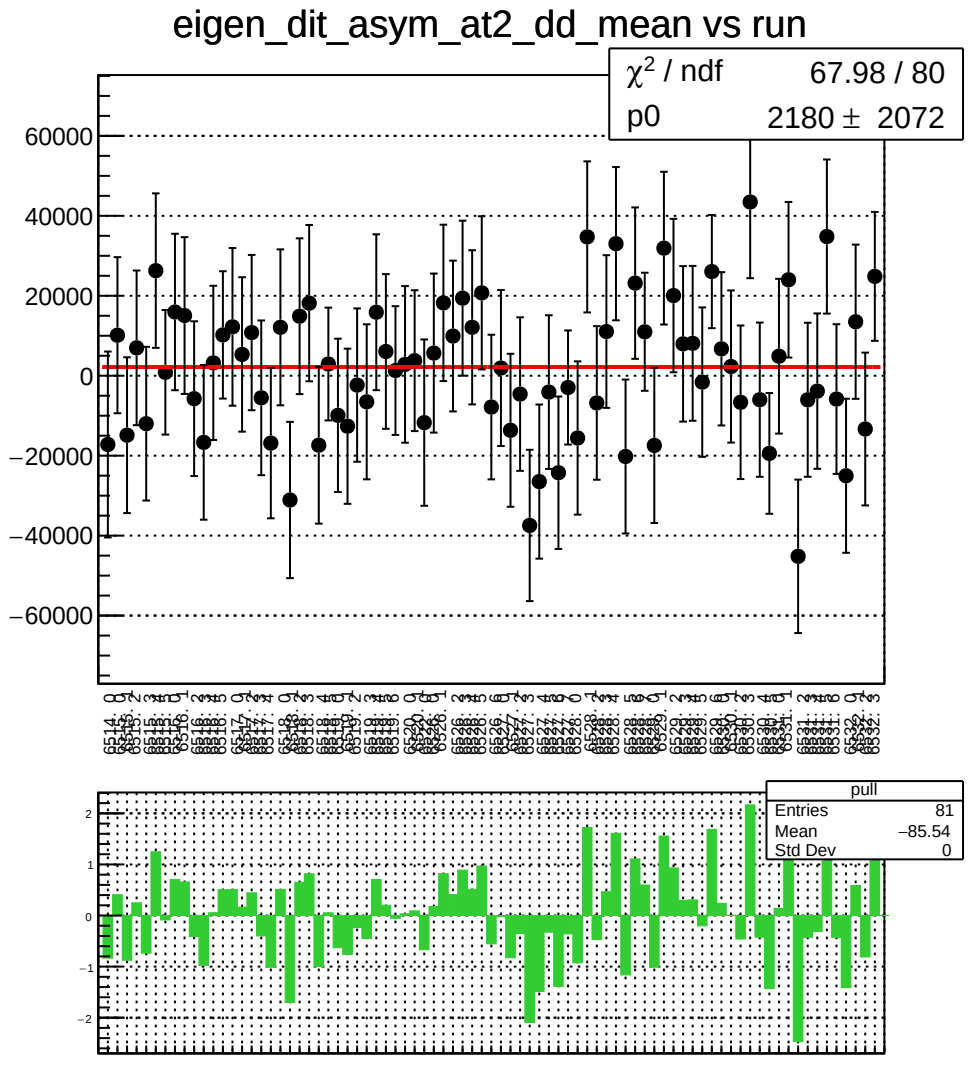

pull1D
Entries 81
Mean −0.009223
Std Dev 0.9161
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

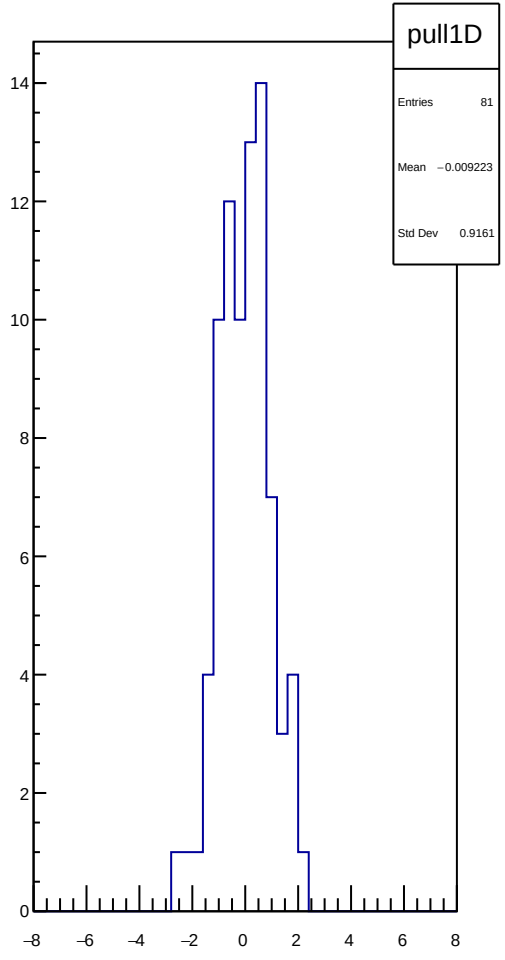

dit_asym_at2_dd_rms vs run
χ² / ndf 171.6 / 80
p0 1830 ± 1.465
1900
1880
1860
1840
1820
1800
1780
1760

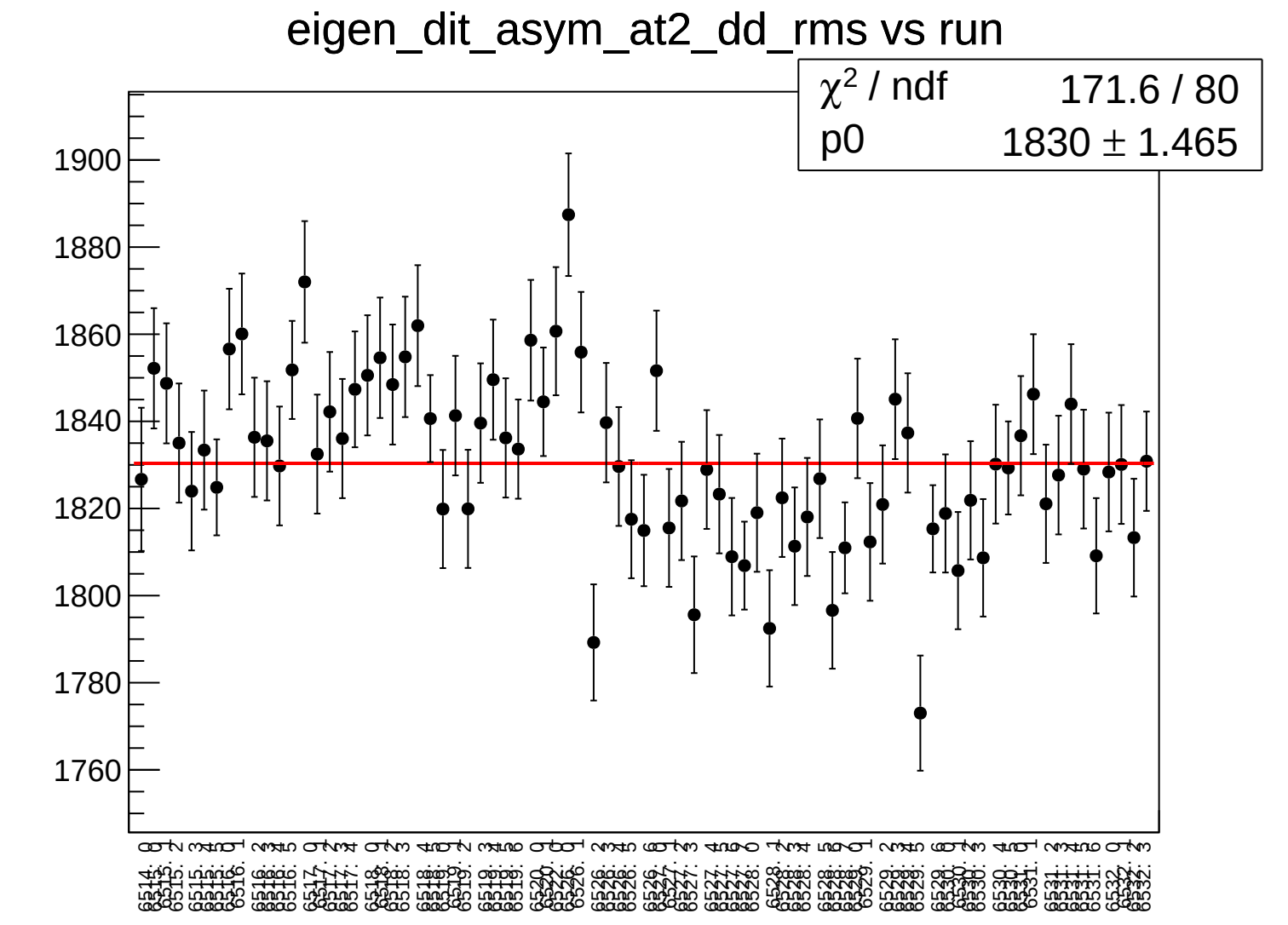

asym_at2_dd_dit_correction_mean vs run
χ² / ndf 72.66 / 80
p0 −814.7 ± 973.5
pull
Entries 81
Mean −373.8
Std Dev 0

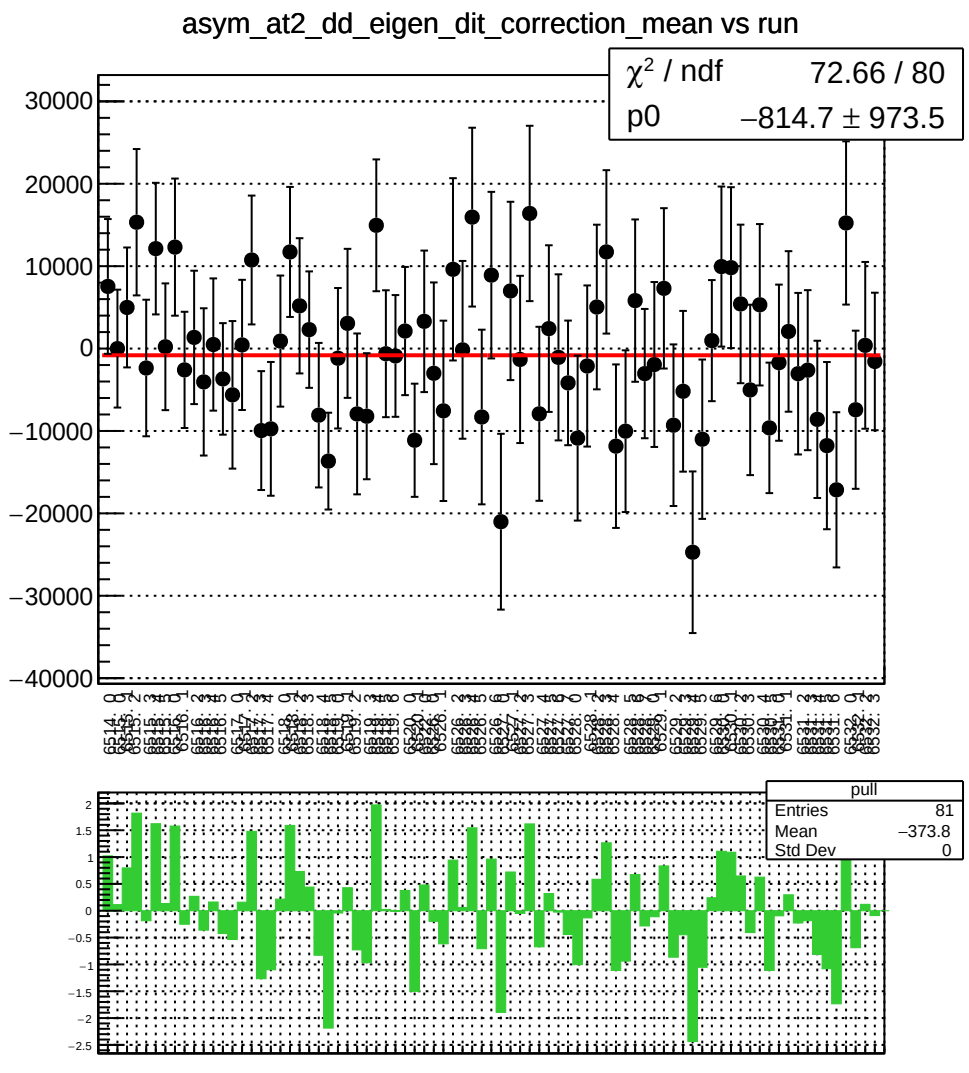

pull1D
Entries 81
Mean 0.01078
Std Dev 0.9471

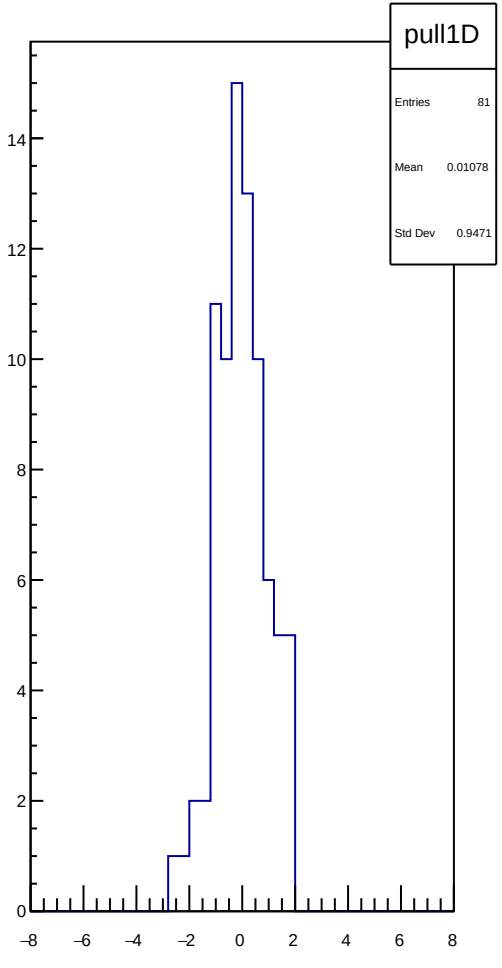

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 2.52e+04 / 80
p0 853 ± 0.6883
1000
900
800
700
600

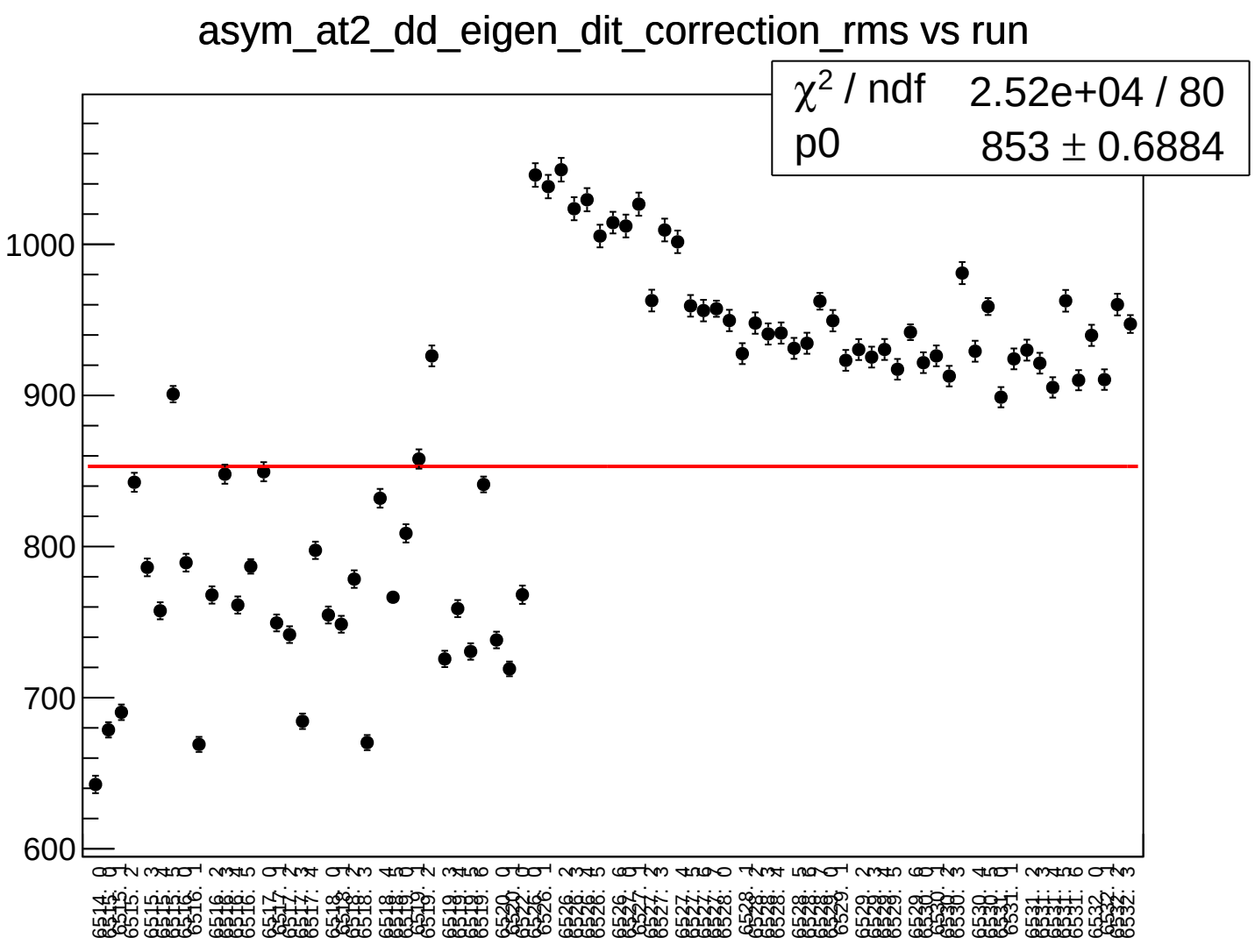

eigen_dit_asym_at2_dd_mean vs run
χ² / ndf 67.98 / 80
p0 2180 ± 2072
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −85.54
Std Dev 0
2
1
0
−1
−2

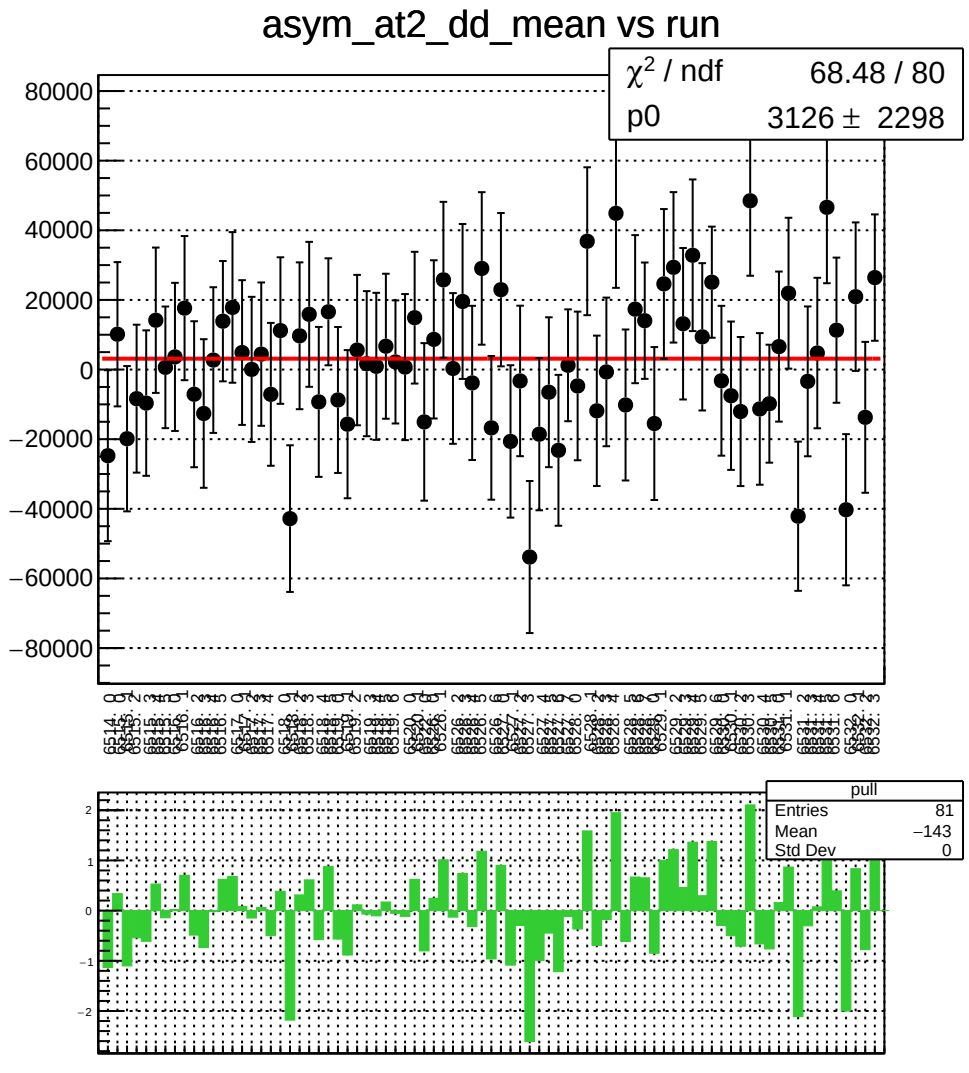

pull1D
Entries 81
Mean −0.009223
Std Dev 0.9161
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

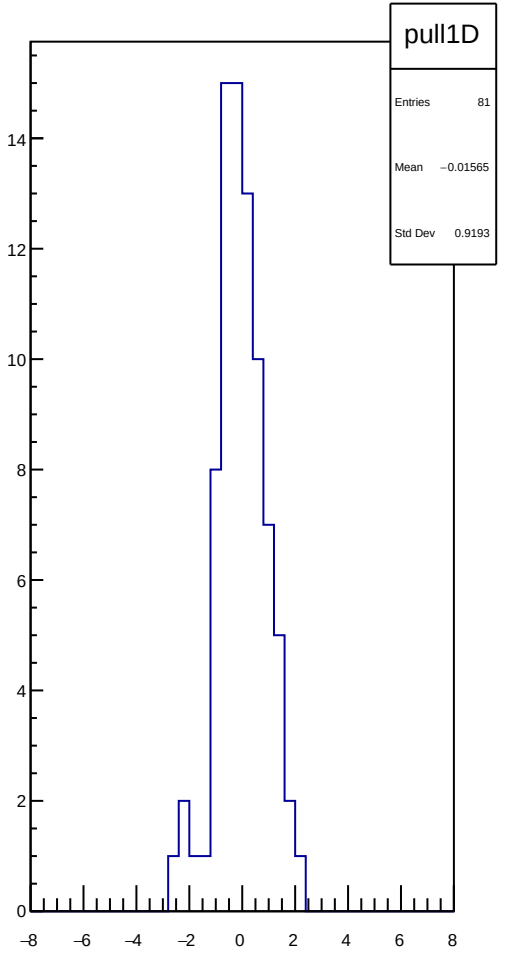

eigen_dit_asym_at2_dd_rms vs run
χ² / ndf 171.6 / 80
p0 1830 ± 1.465
1900
1880
1860
1840
1820
1800
1780
1760

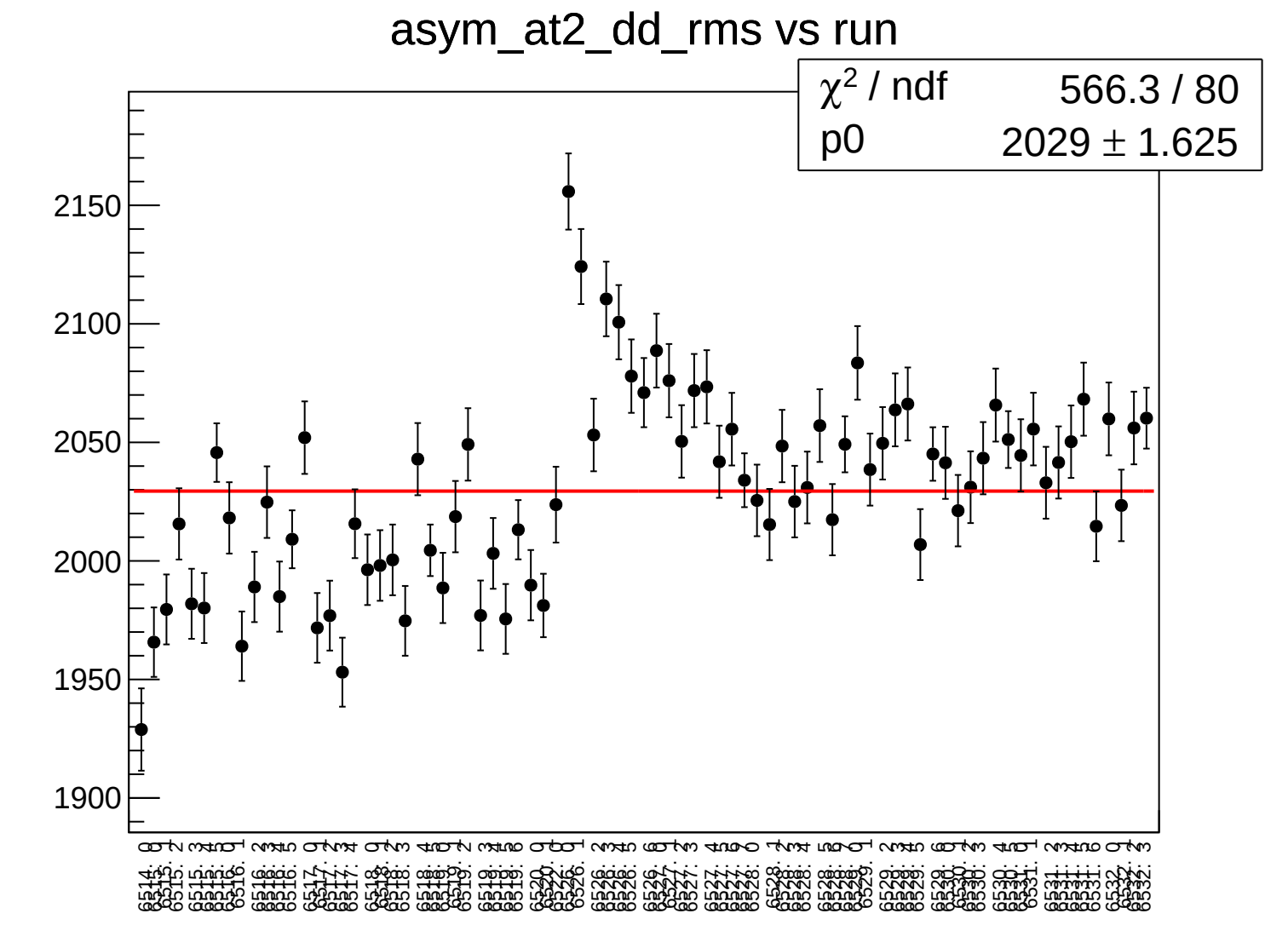

asym_at2_dd_eigen_dit_correction_mean vs run
χ² / ndf 72.66 / 80
p0 −814.7 ± 973.5
pull
Entries 81
Mean −373.8
Std Dev 0

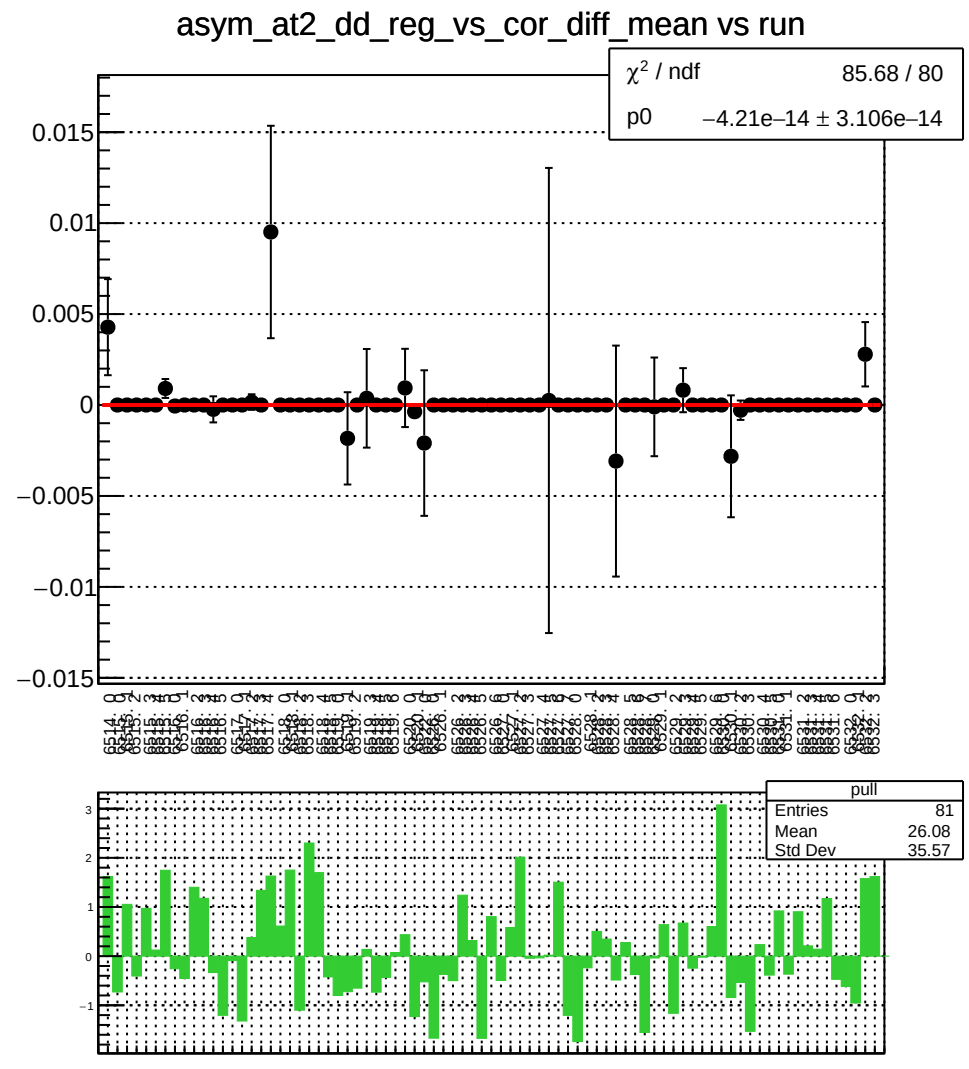

pull1D
Entries 81
Mean 0.01078
Std Dev 0.9471

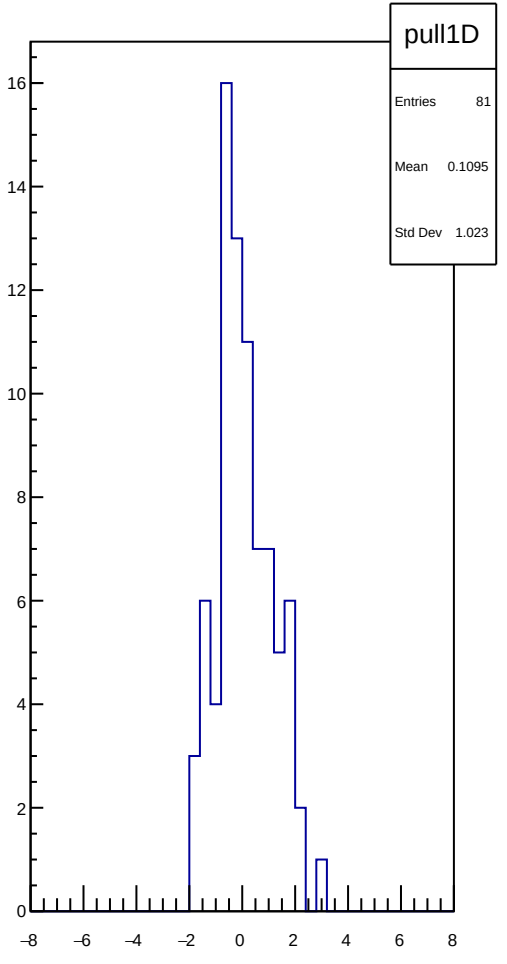

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.52e+04 / 80
p0 853 ± 0.6884
1000
900
800
700
600

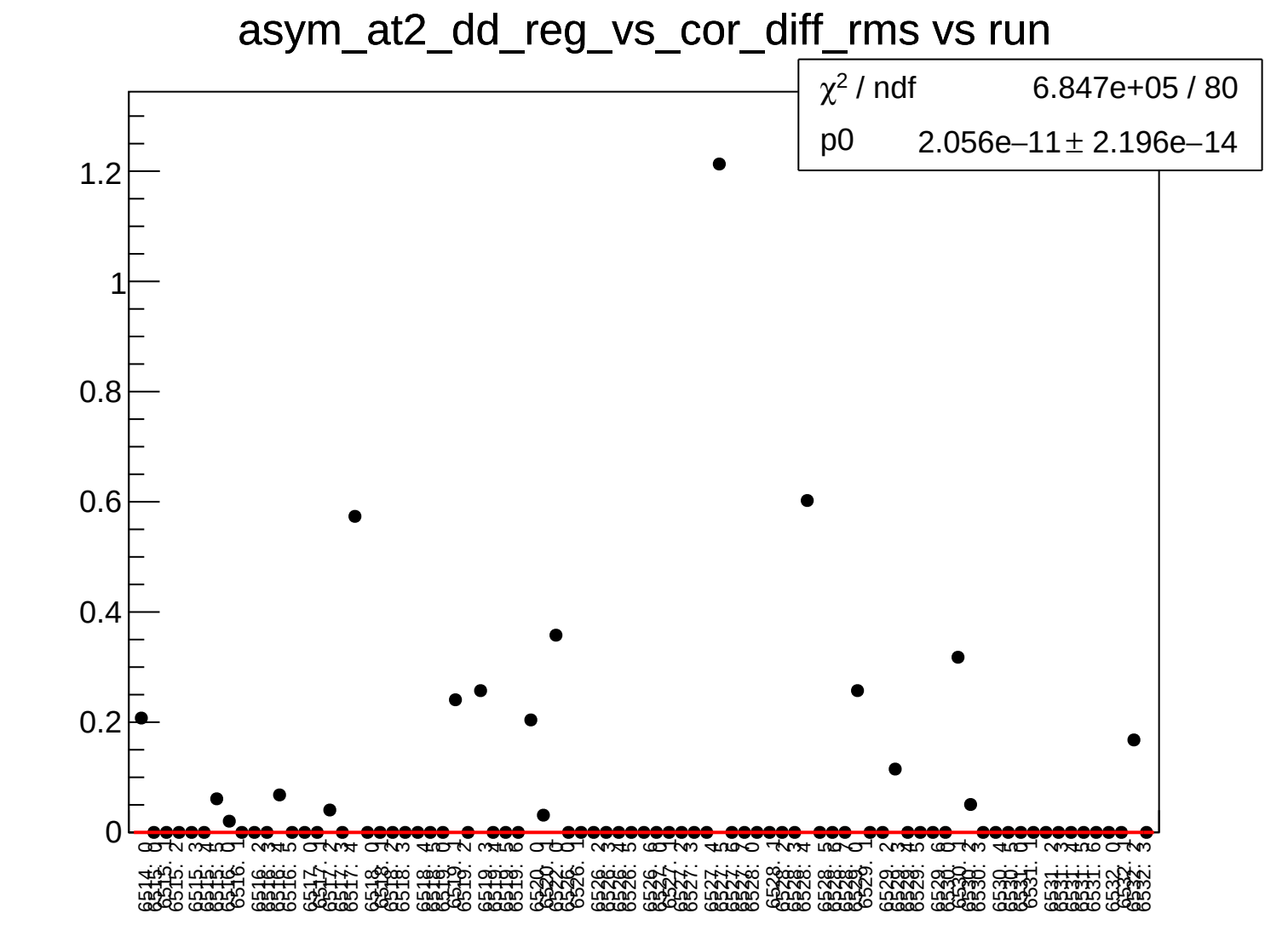

asym_at2_dd_mean vs run
χ² / ndf 68.48 / 80
p0 3126 ± 2298
pull
Entries 81
Mean −143
Std Dev 0

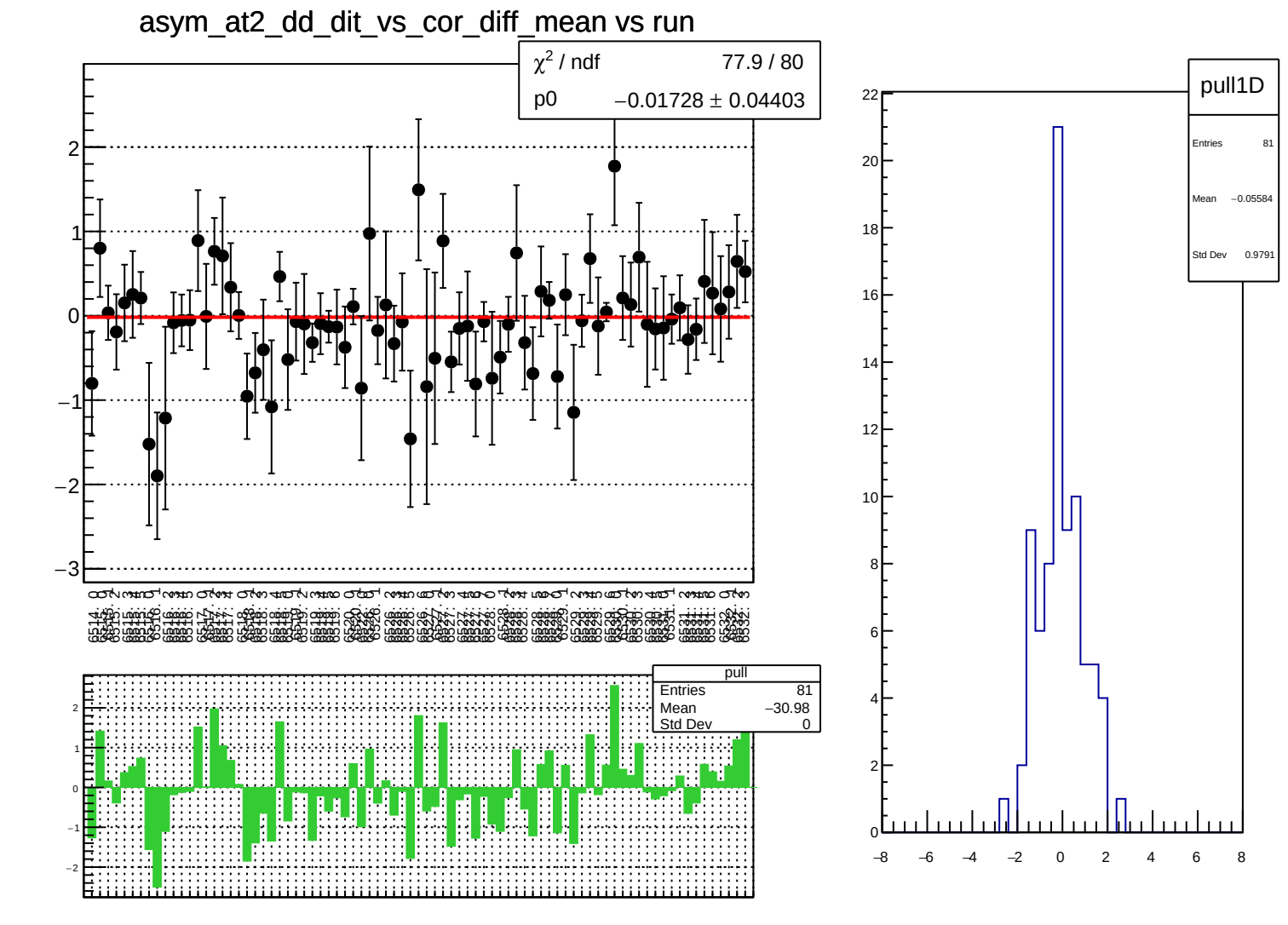

pull1D
Entries 81
Mean −0.01565
Std Dev 0.9193

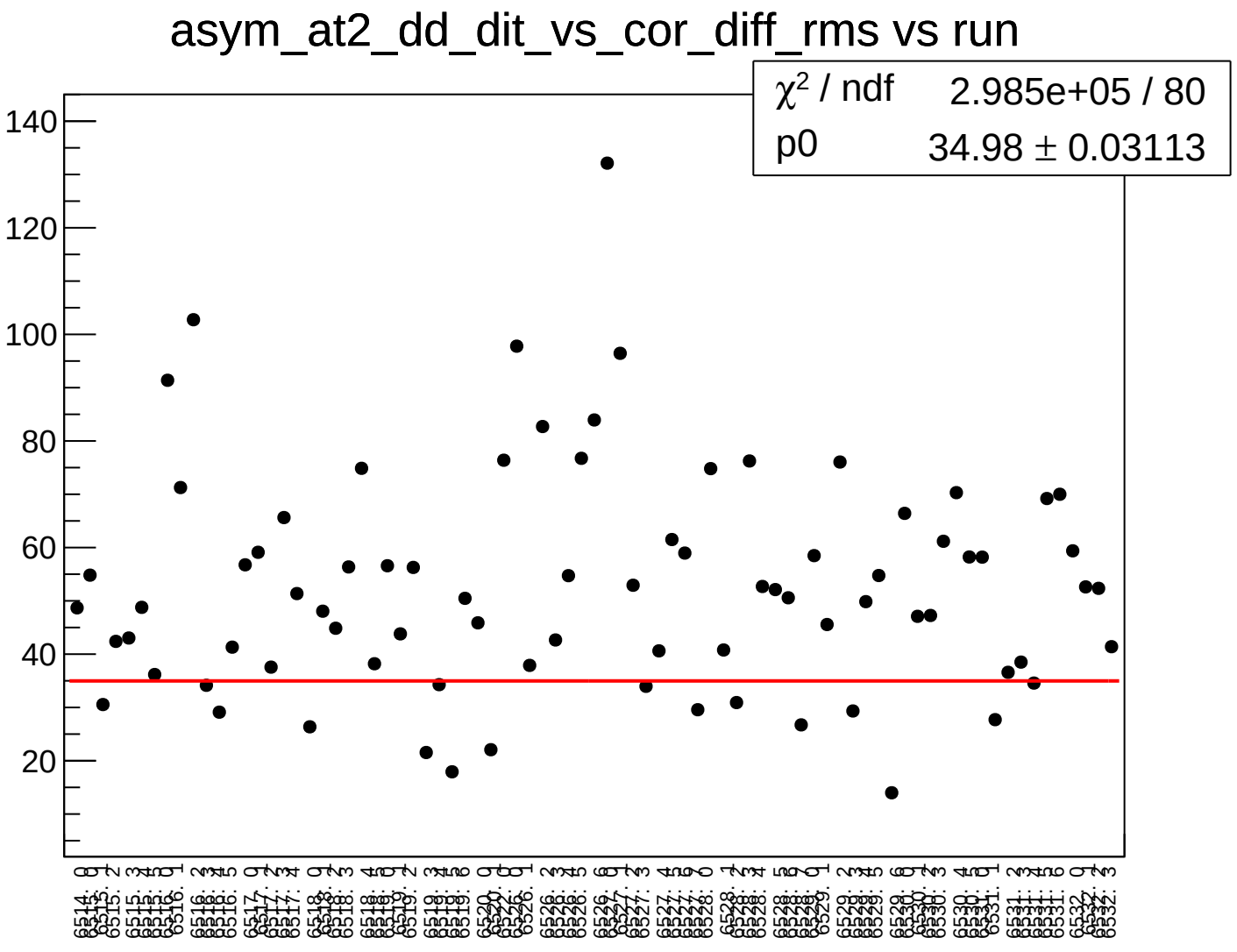

asym_at2_dd_rms vs run
χ² / ndf 566.3 / 80
p0 2029 ± 1.625
2150
2100
2050
2000
1950
1900

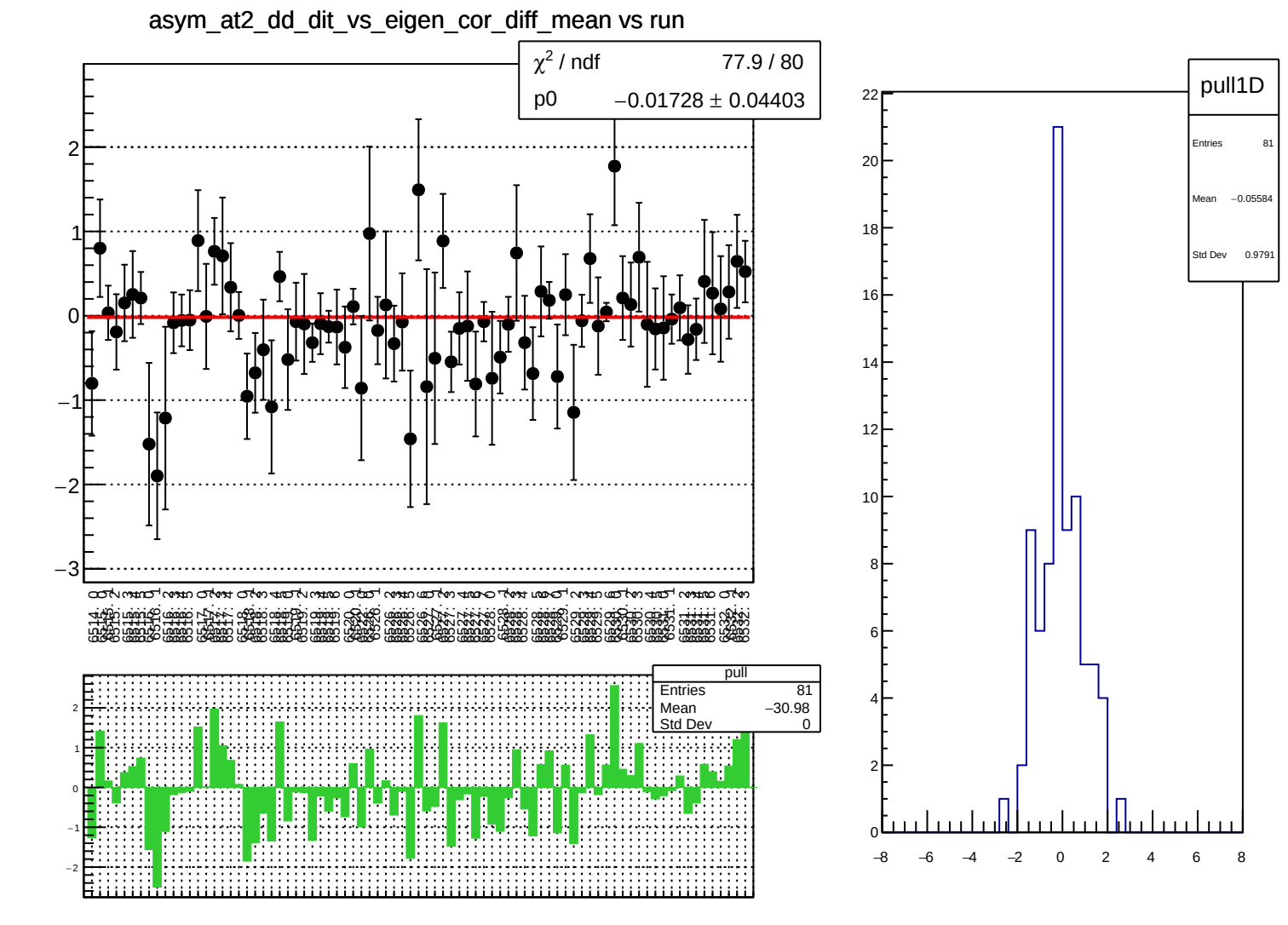

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 85.68 / 80
p0 −4.21e−14 ± 3.106e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 81
Mean 26.08
Std Dev 35.57
3
2
1
0
−1

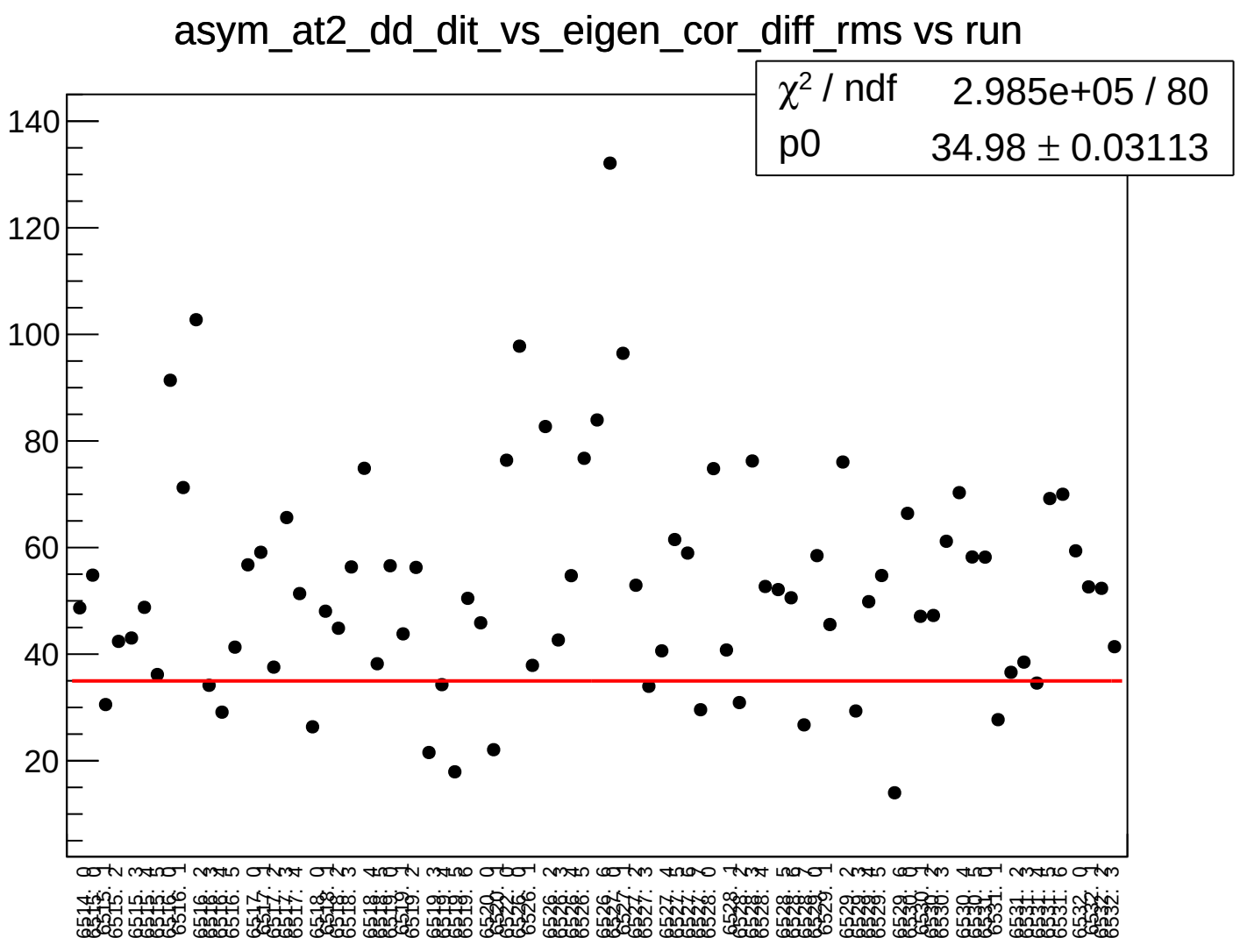

pull1D
Entries 81
Mean 0.1095
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

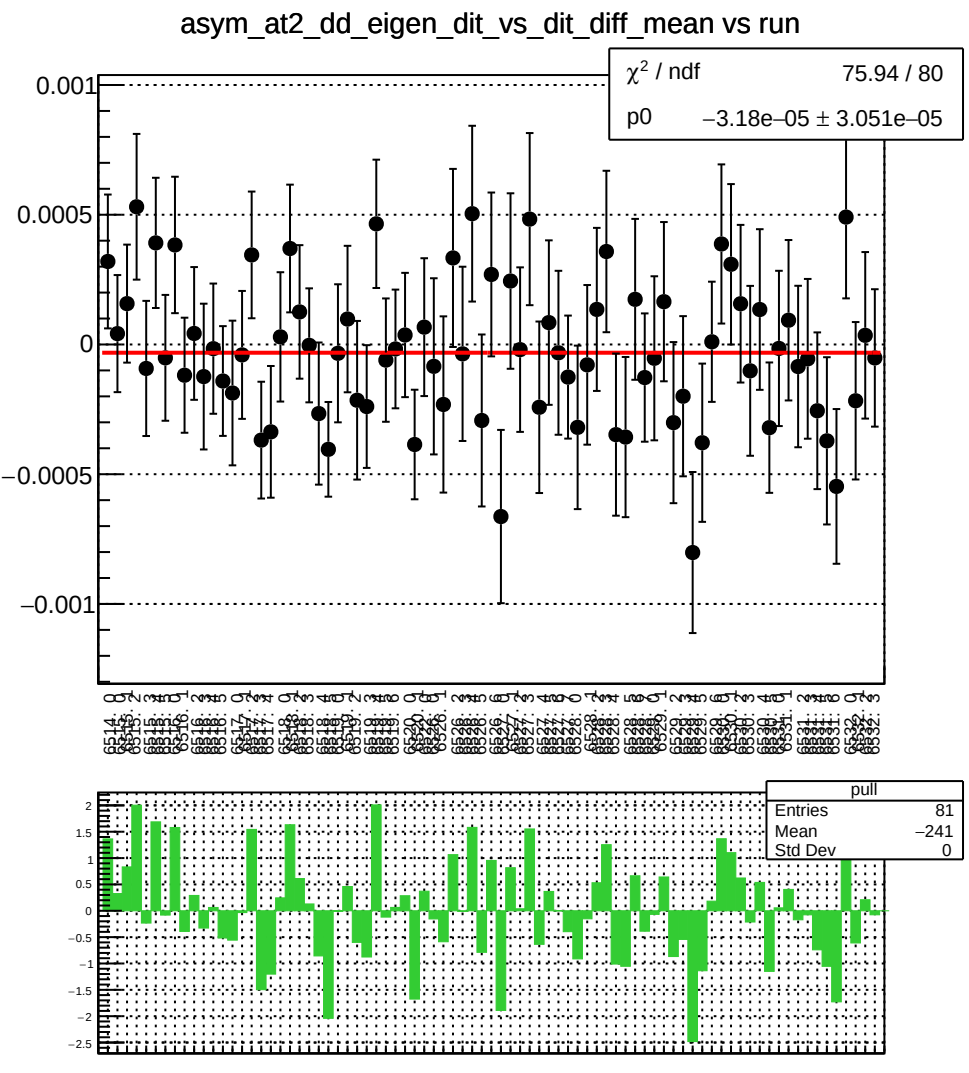

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 6.847e+05 / 80
p0 2.056e−11 ± 2.196e−14
1.2
1
0.8
0.6
0.4
0.2
0

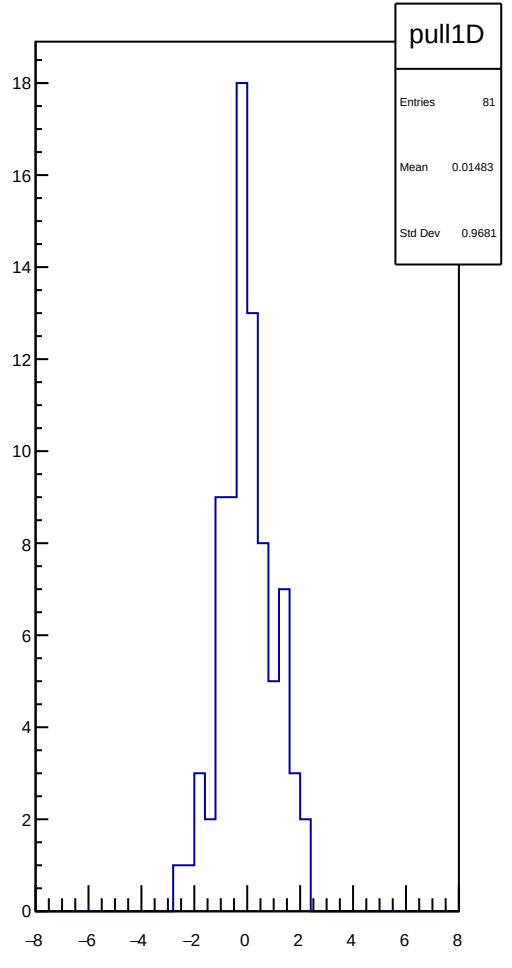

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 77.9 / 80
p0 −0.01728 ± 0.04403
pull
Entries 81
Mean −30.98
Std Dev 0
pull1D
Entries 81
Mean −0.05584
Std Dev 0.9791

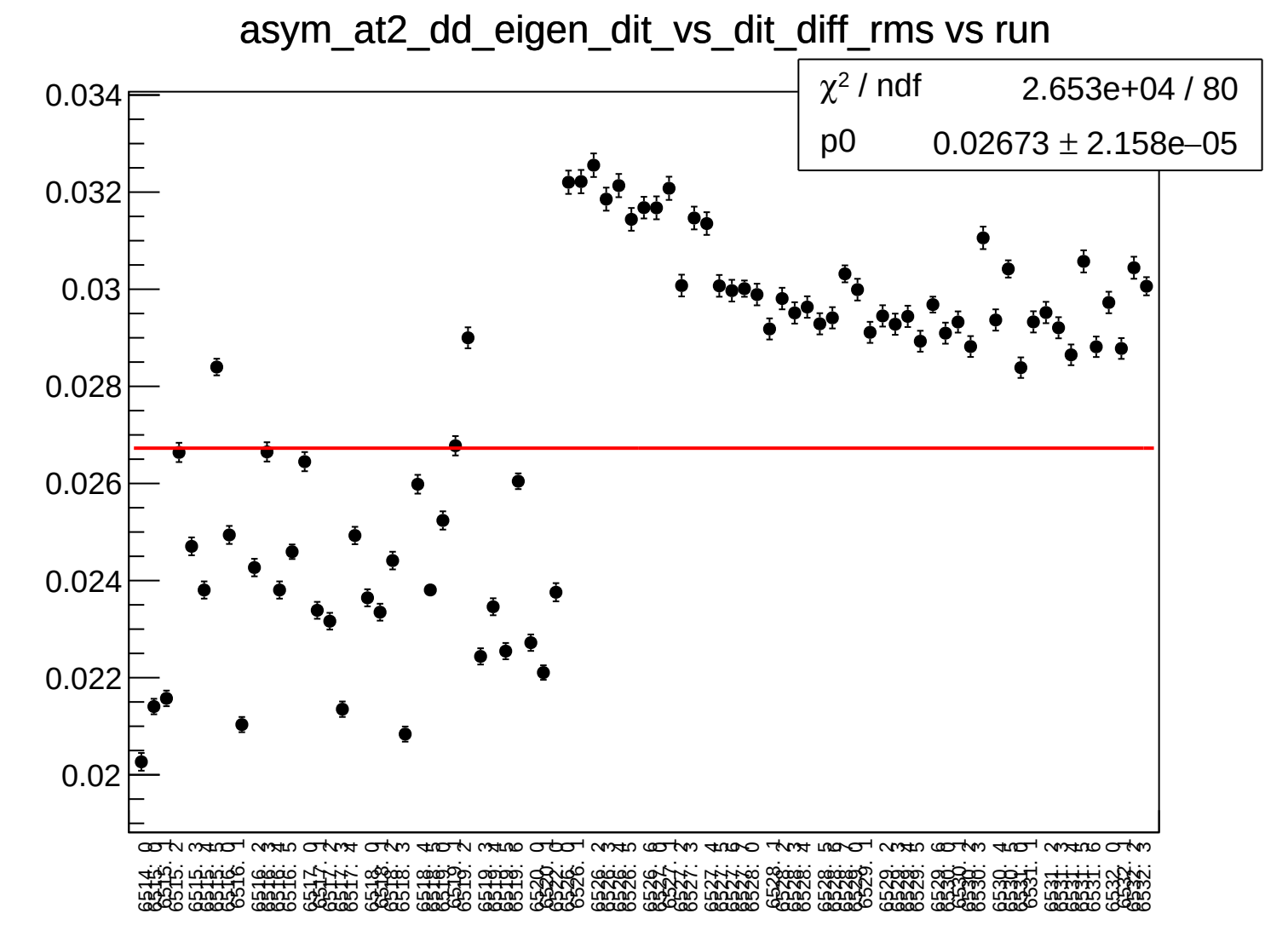

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.985e+05 / 80
p0 34.98 ± 0.03113
140
120
100
80
60
40
20


asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.9 / 80
p0 −0.01728 ± 0.04403
pull
Entries 81
Mean −30.98
Std Dev 0
pull1D
Entries 81
Mean −0.05584
Std Dev 0.9791

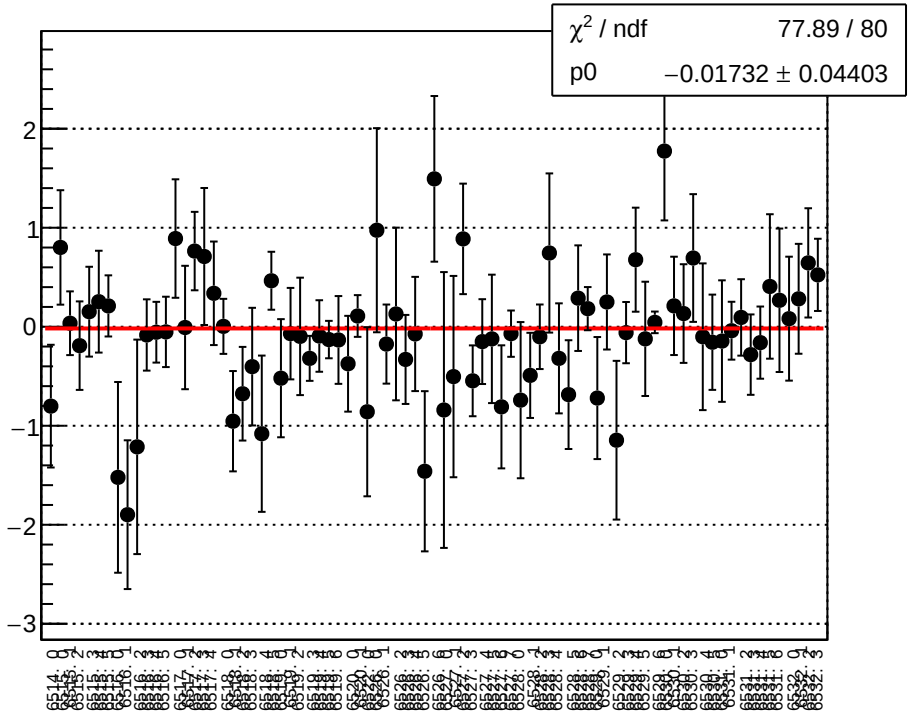

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.985e+05 / 80
p0 34.98 ± 0.03113
140
120
100
80
60
40
20

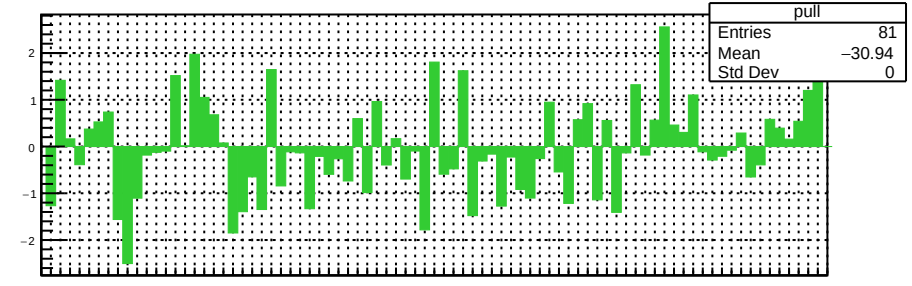

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 75.94 / 80
p0 −3.18e−05 ± 3.051e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 81
Mean −241
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

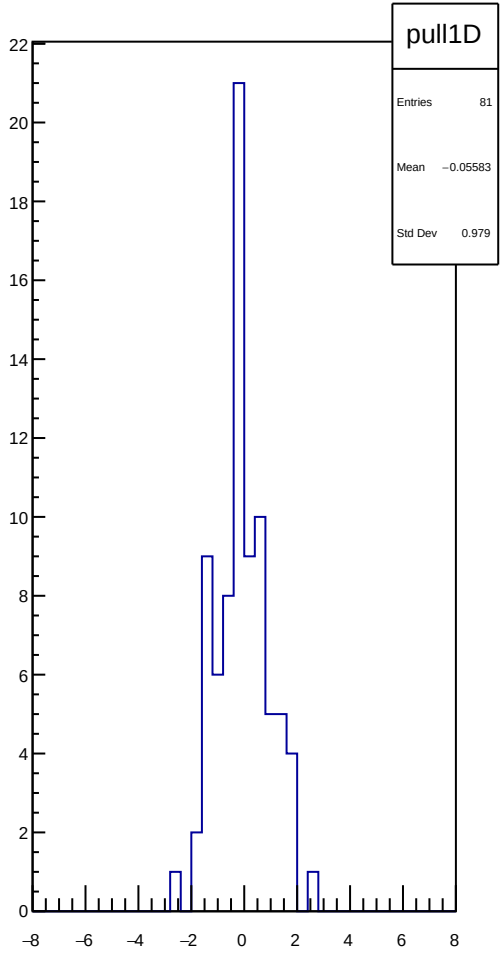

pull1D
Entries 81
Mean 0.01483
Std Dev 0.9681
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

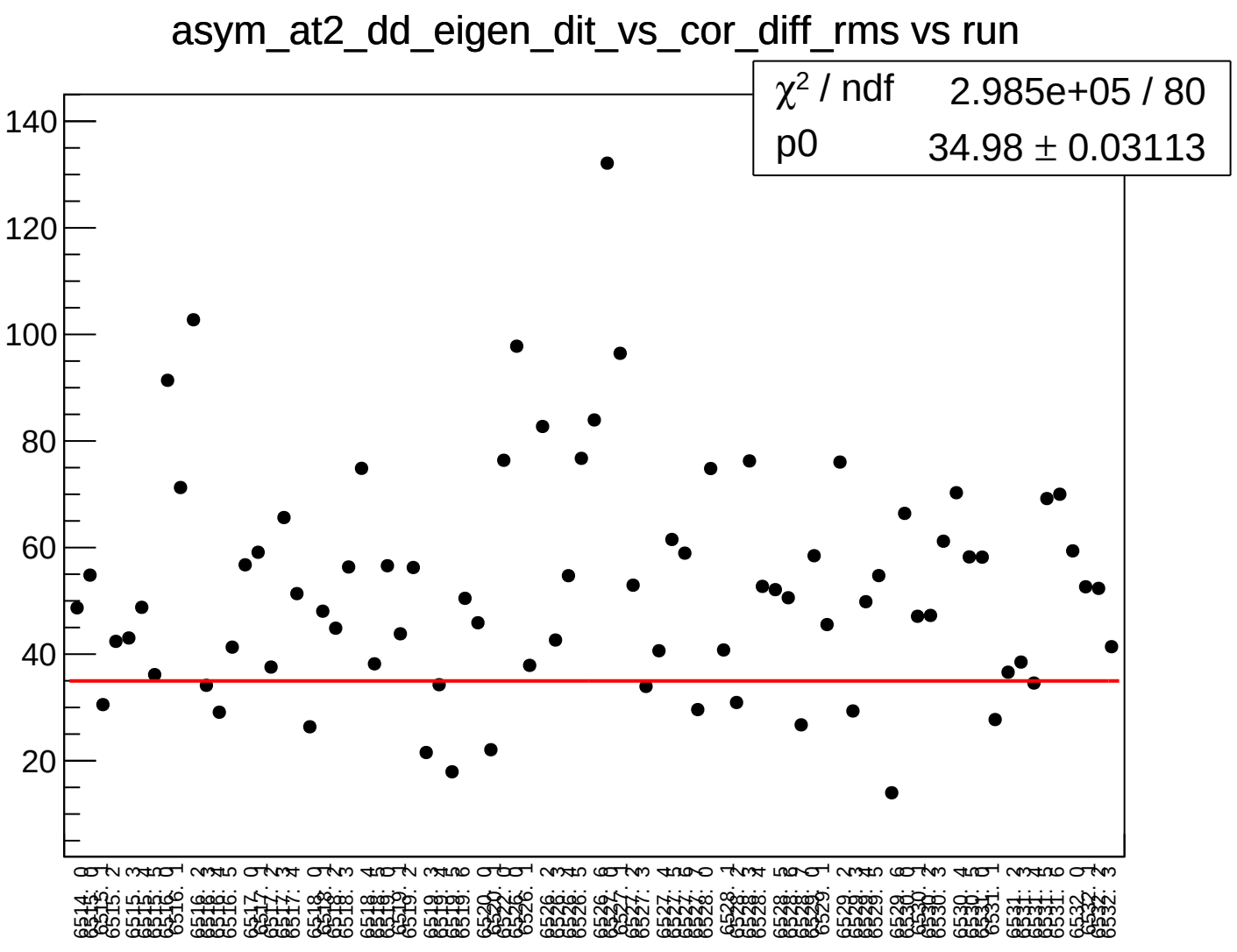

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.653e+04 / 80
p0 0.02673 ± 2.158e−05
0.034
0.032
0.03
0.028
0.026
0.024
0.022
0.02

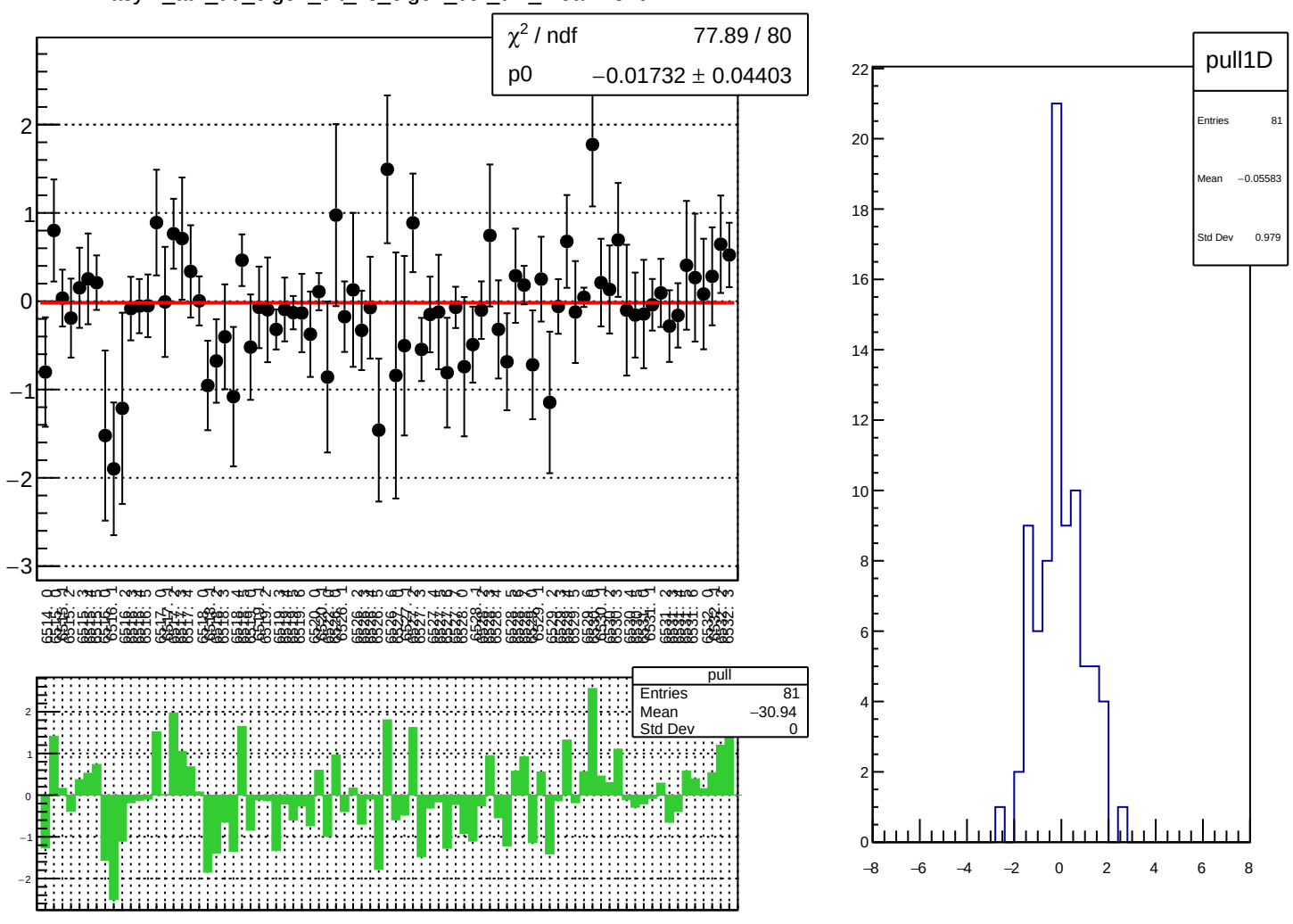
asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run

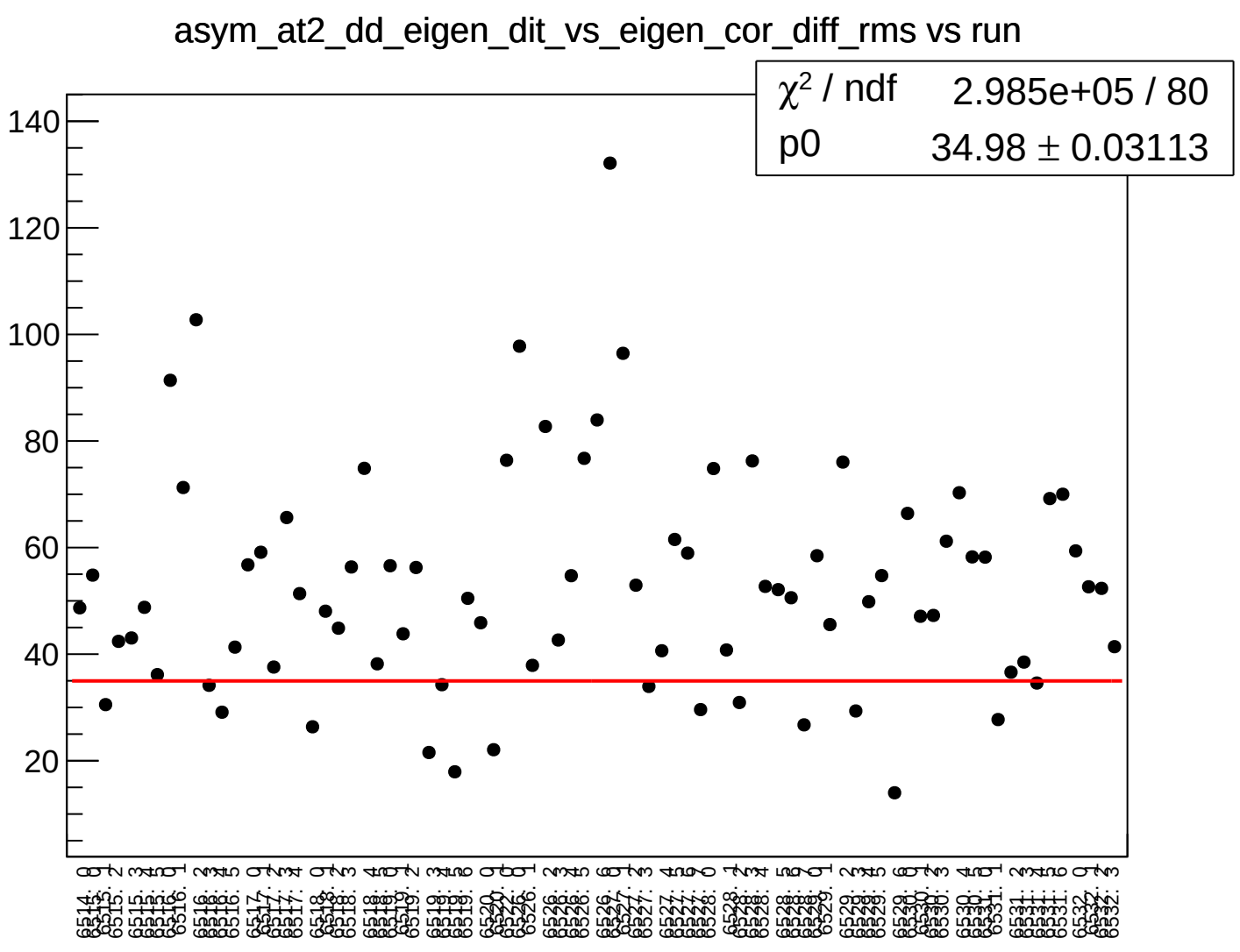


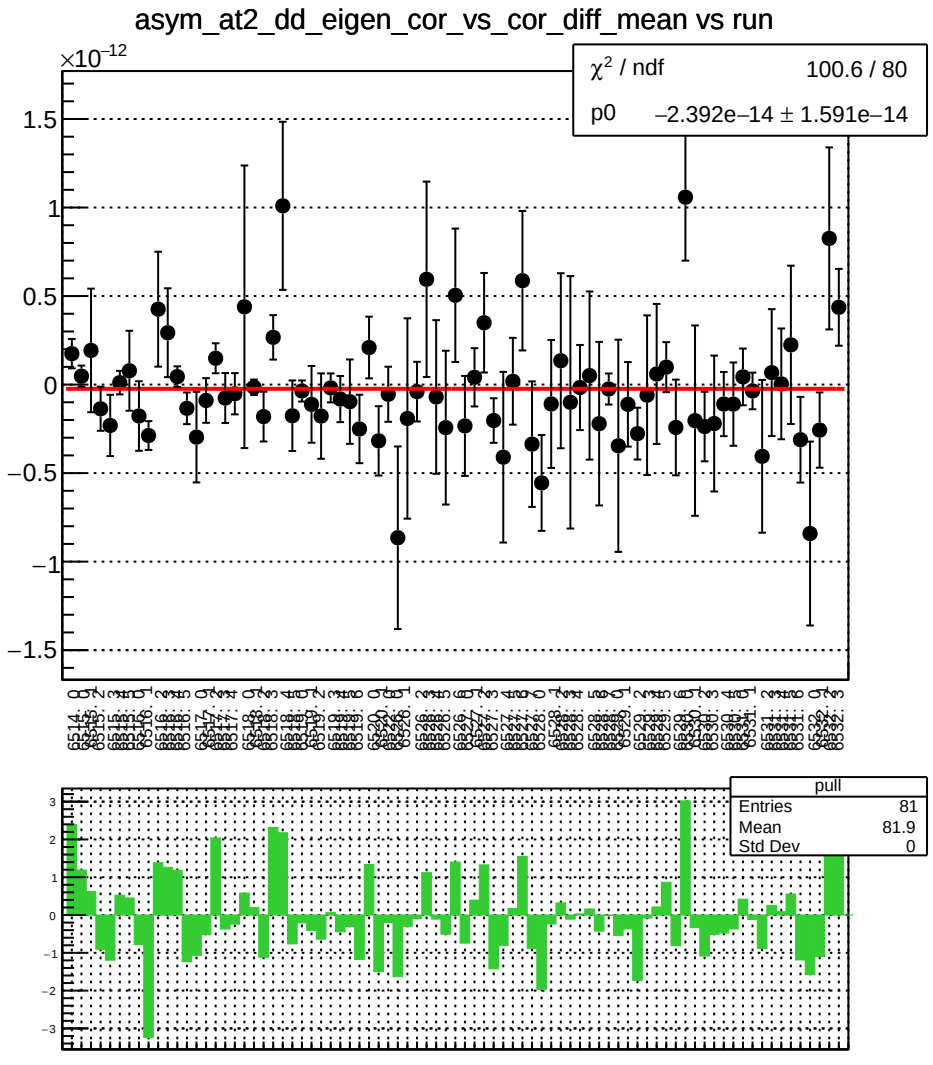


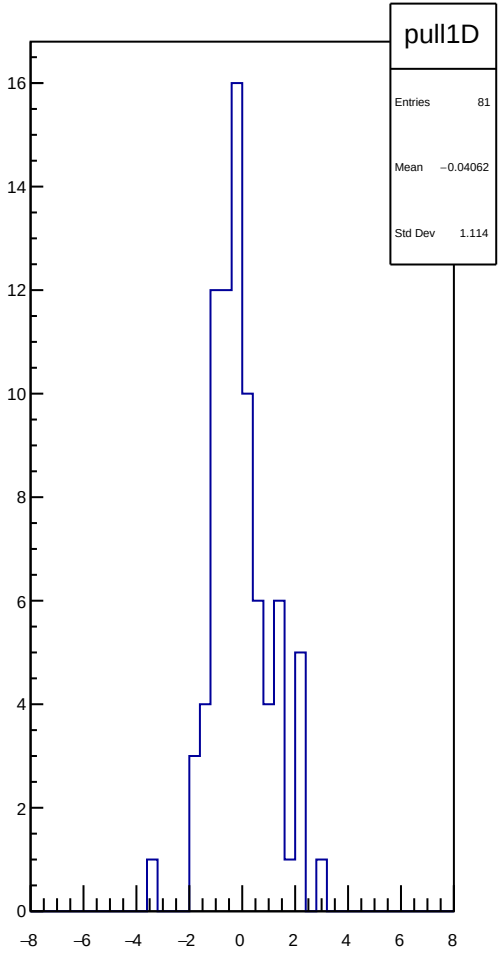


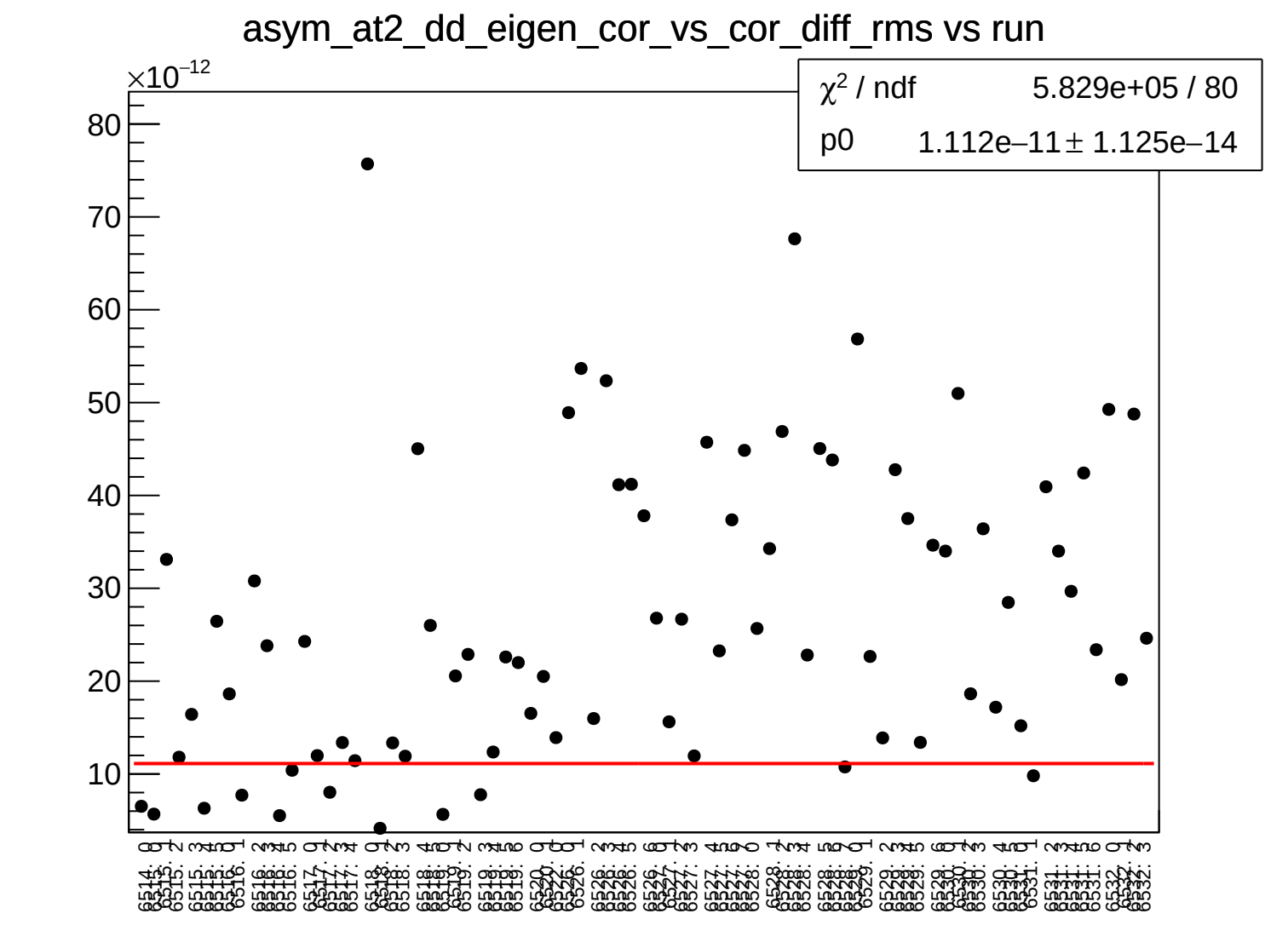

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.985e+05 / 80
p0 34.98 ± 0.03113
140
120
100
80
60
40
20

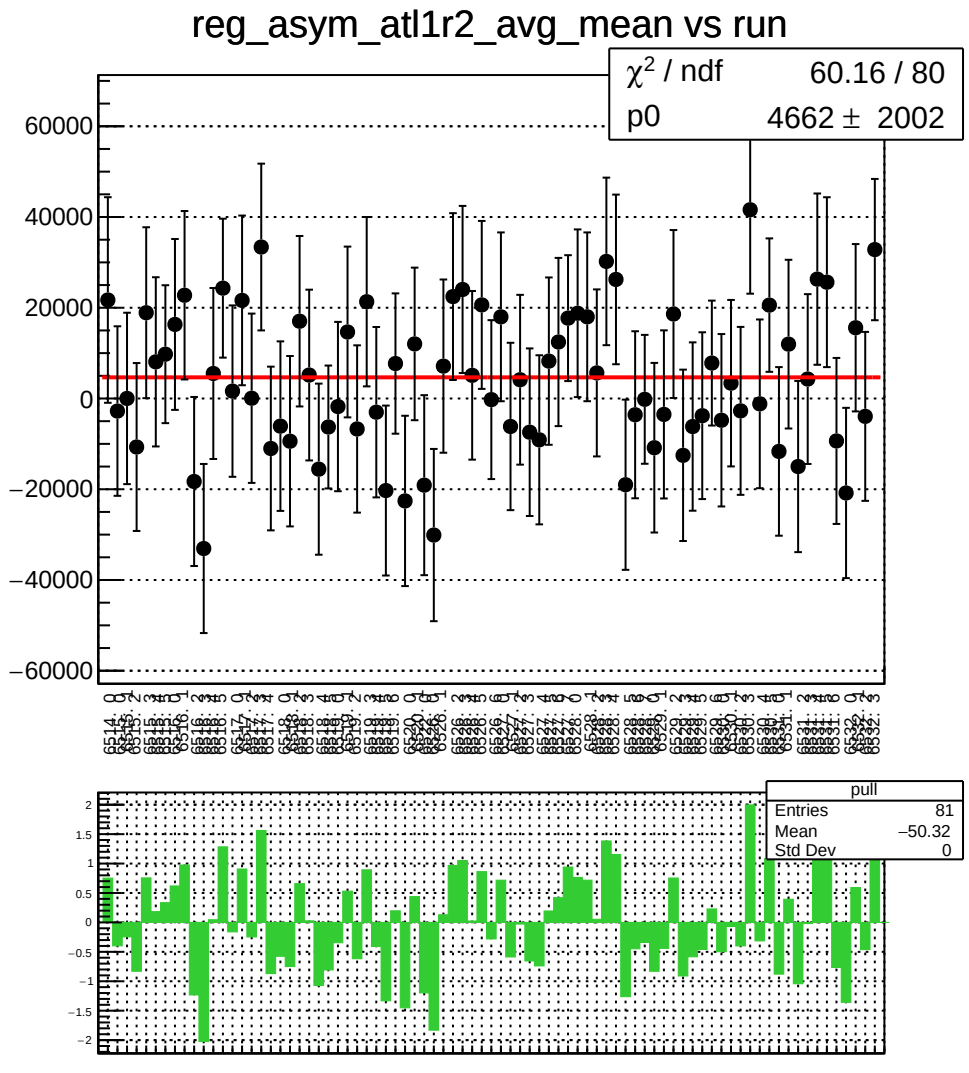

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.89 / 80
p0 −0.01732 ± 0.04403
pull
Entries 81
Mean −30.94
Std Dev 0
pull1D
Entries 81
Mean −0.05583
Std Dev 0.979

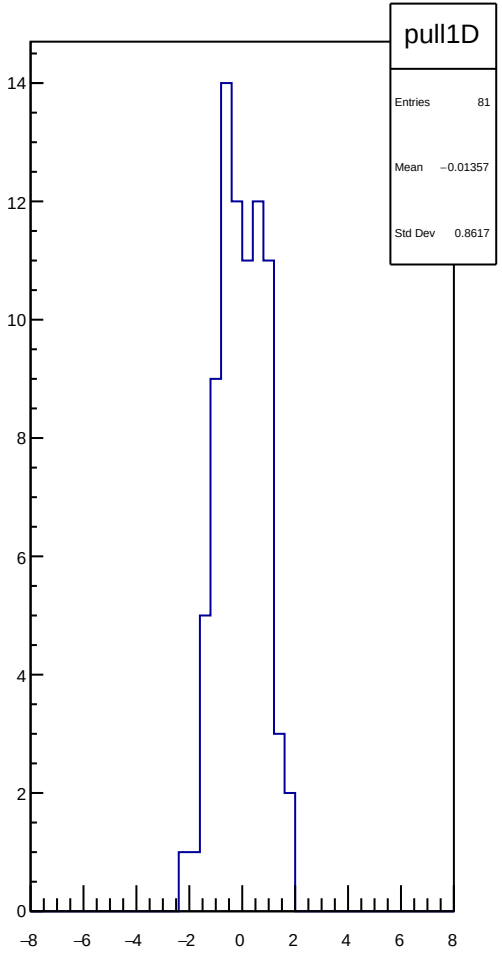

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.985e+05 / 80
p0 34.98 ± 0.03113
140
120
100
80
60
40
20

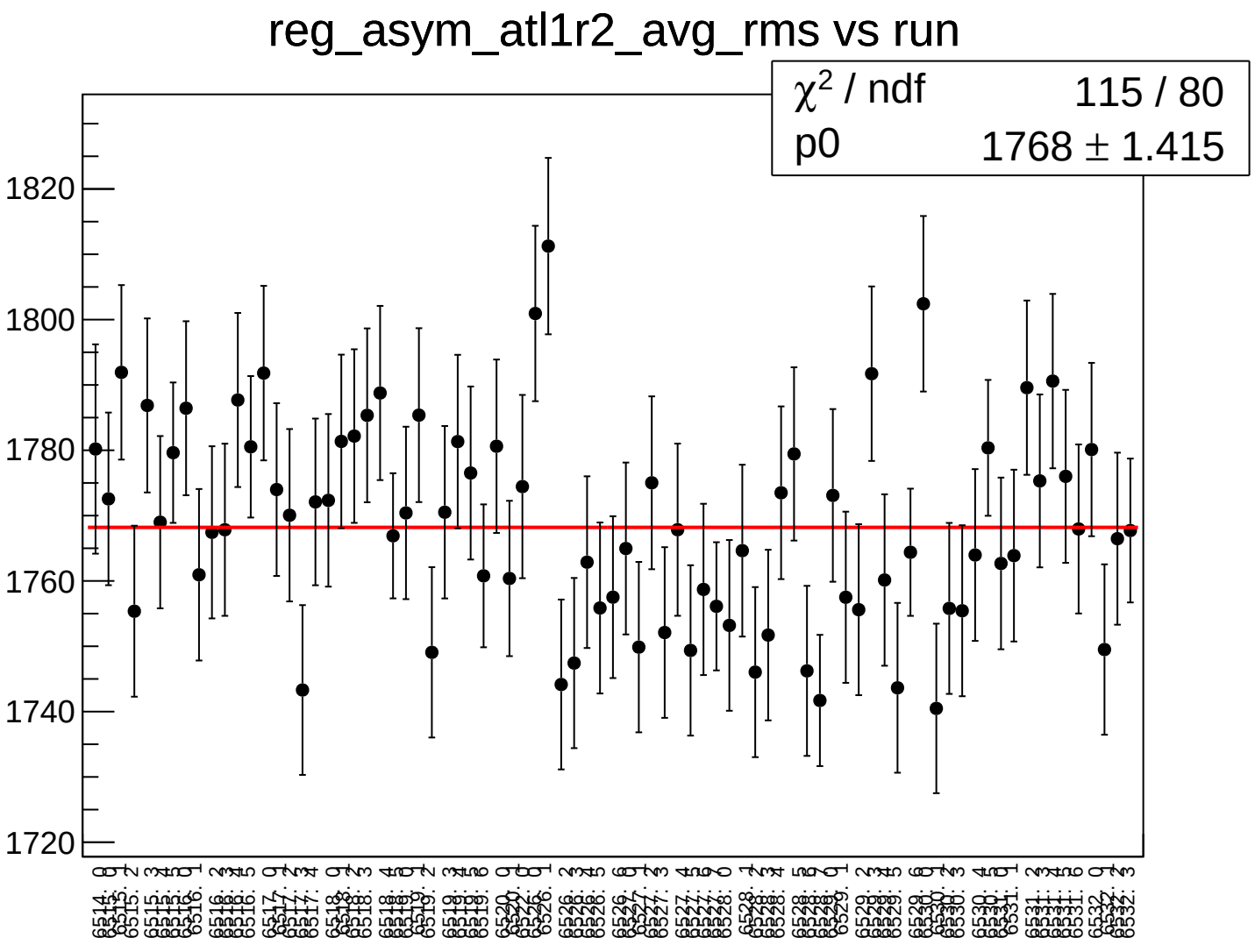

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 100.6 / 80
p0 −2.392e−14 ± 1.591e−14
pull
Entries 81
Mean 81.9
Std Dev 0

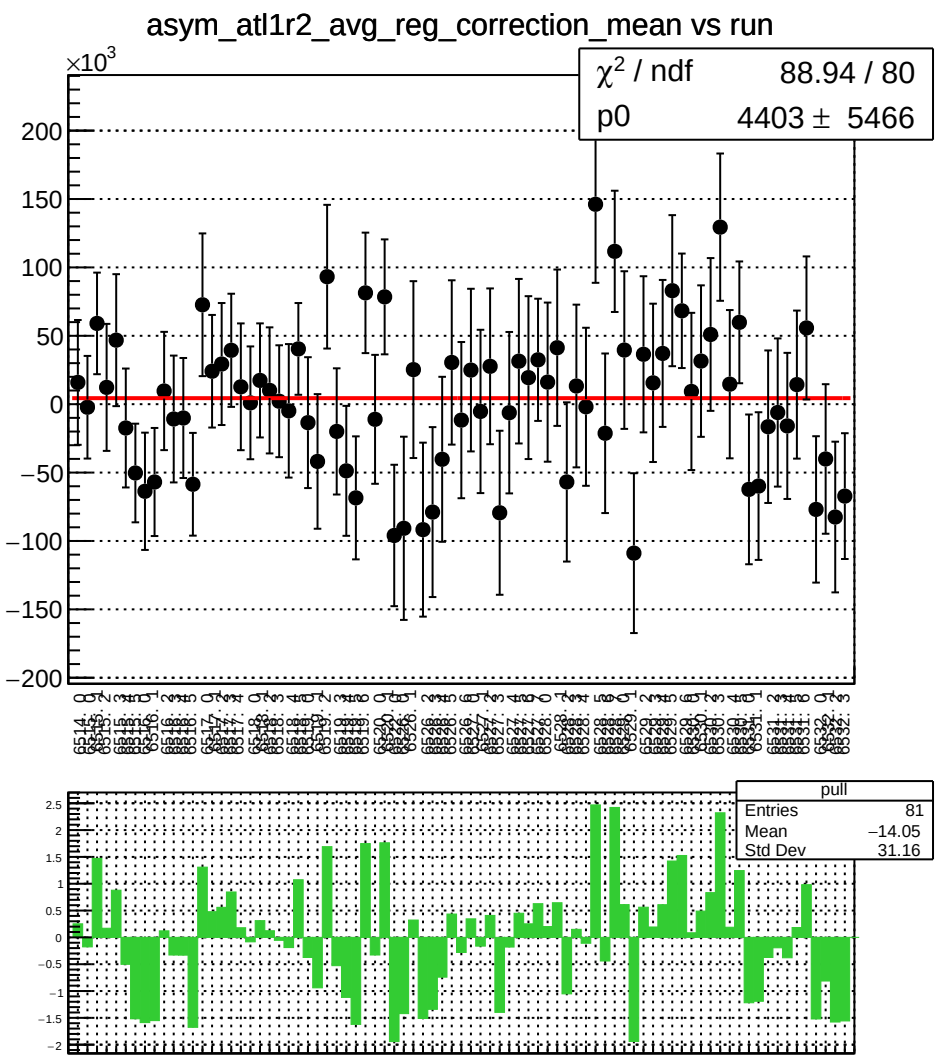

pull1D
Entries 81
Mean −0.04062
Std Dev 1.114

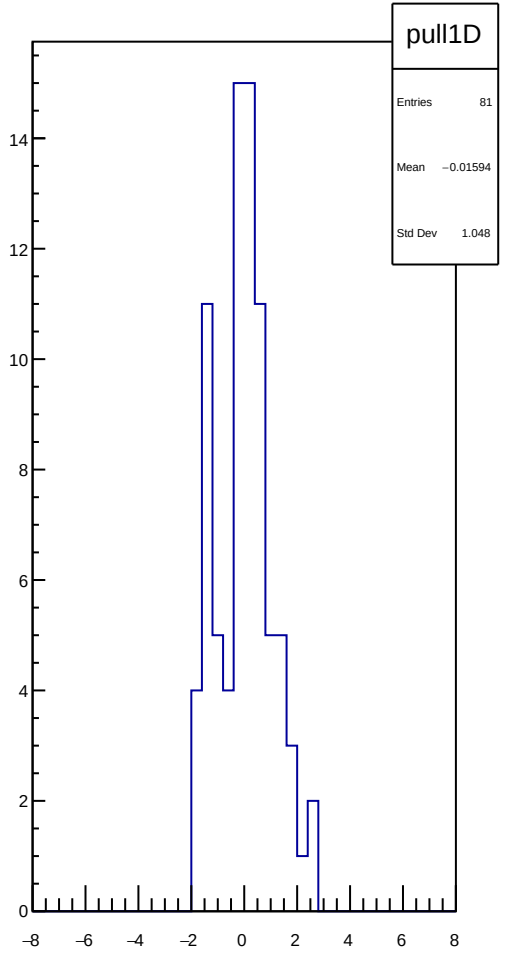

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.829e+05 / 80
p0 1.112e−11 ± 1.125e−14
80
70
60
50
40
30
20
10

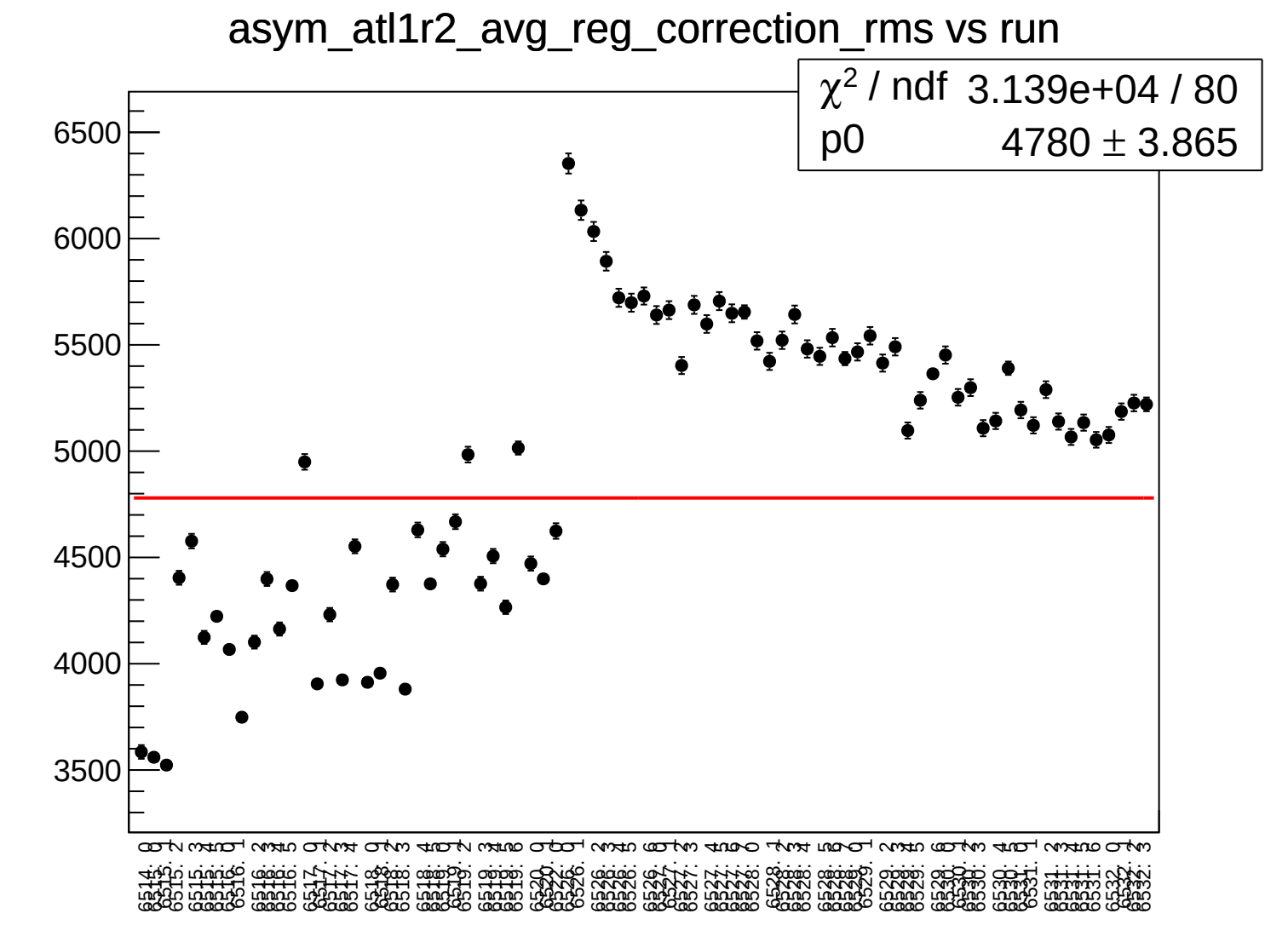

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 60.16 / 80
p0 4662 ± 2002
pull
Entries 81
Mean −50.32
Std Dev 0

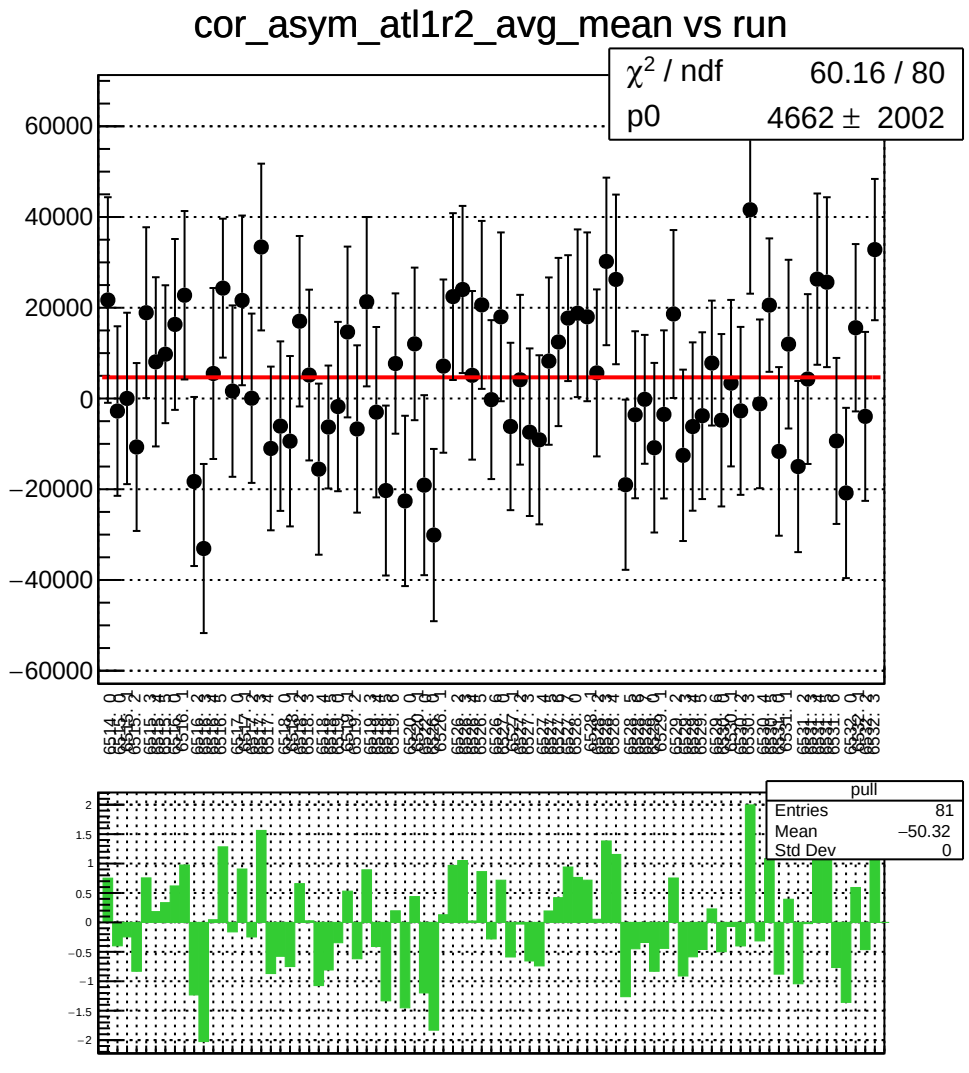

pull1D
Entries 81
Mean −0.01357
Std Dev 0.8617

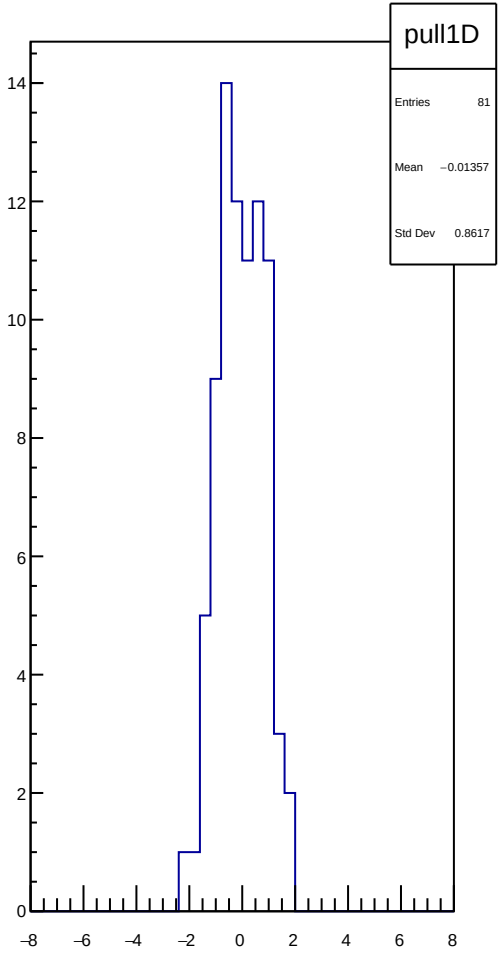

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 115 / 80
p0 1768 ± 1.415
1820
1800
1780
1760
1740
1720

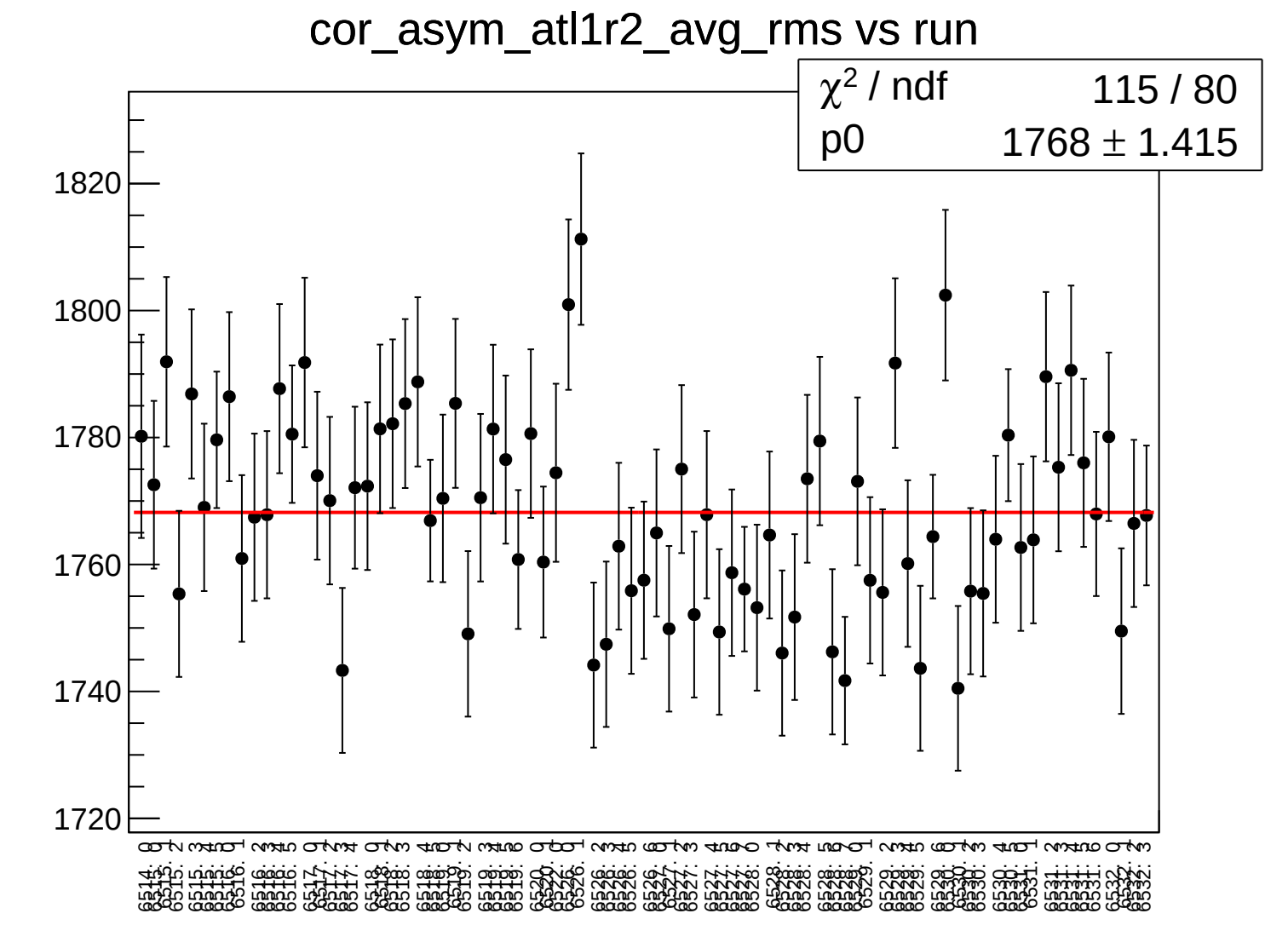

asym_atl1r2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 88.94 / 80
p0 4403 ± 5466
pull
Entries 81
Mean −14.05
Std Dev 31.16

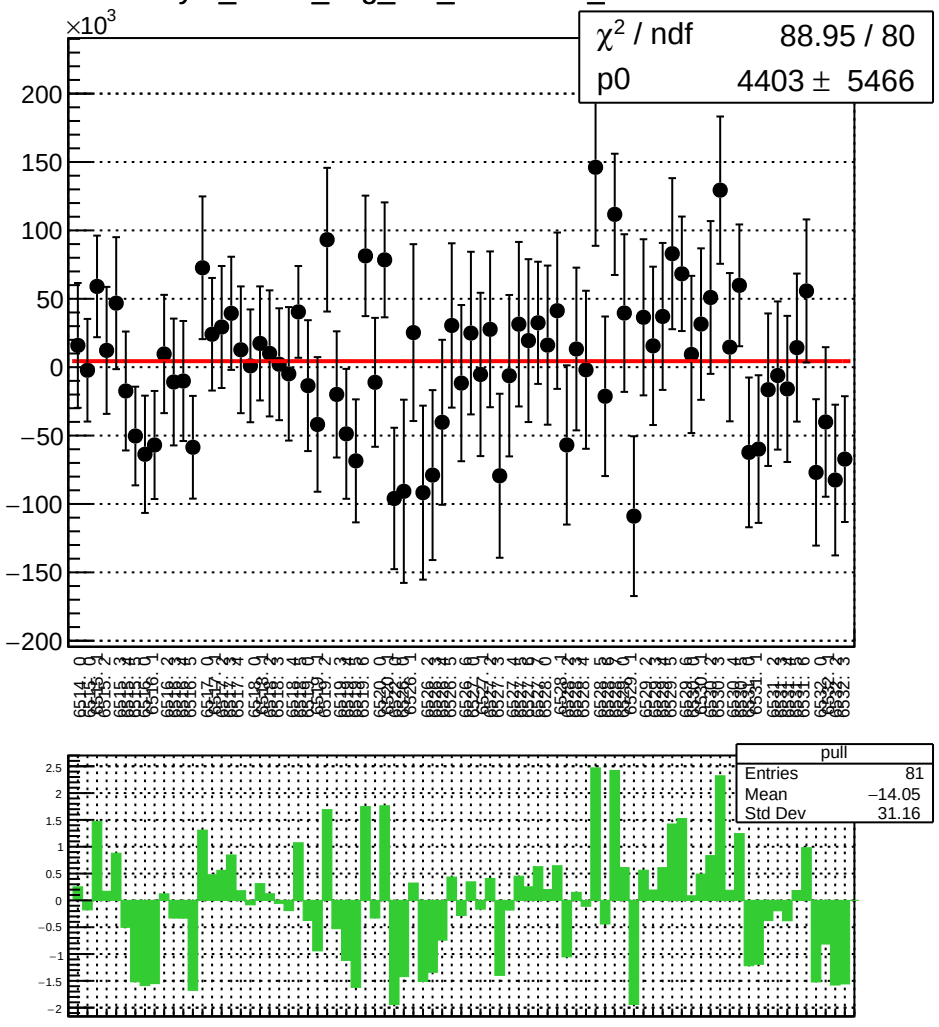

pull1D
Entries 81
Mean −0.01594
Std Dev 1.048

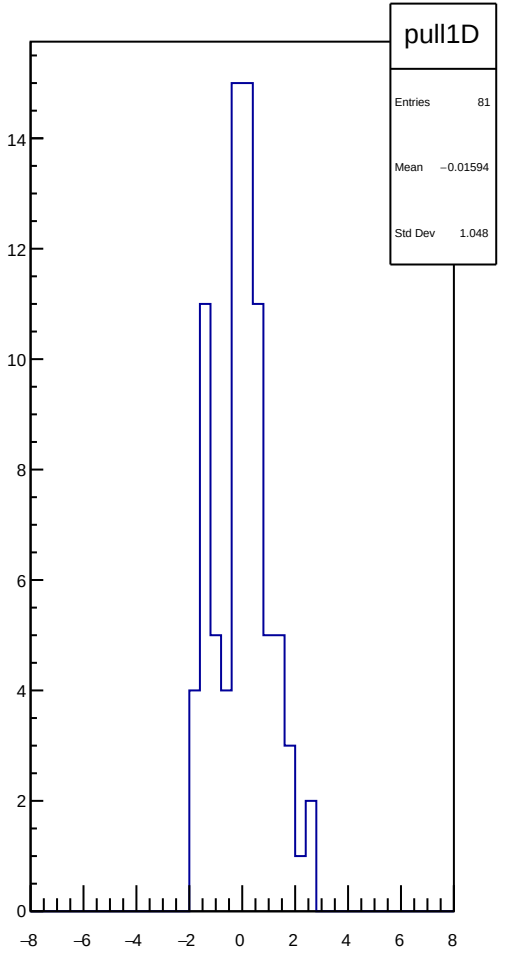

asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 3.139e+04 / 80
p0 4780 ± 3.865
6500
6000
5500
5000
4500
4000
3500

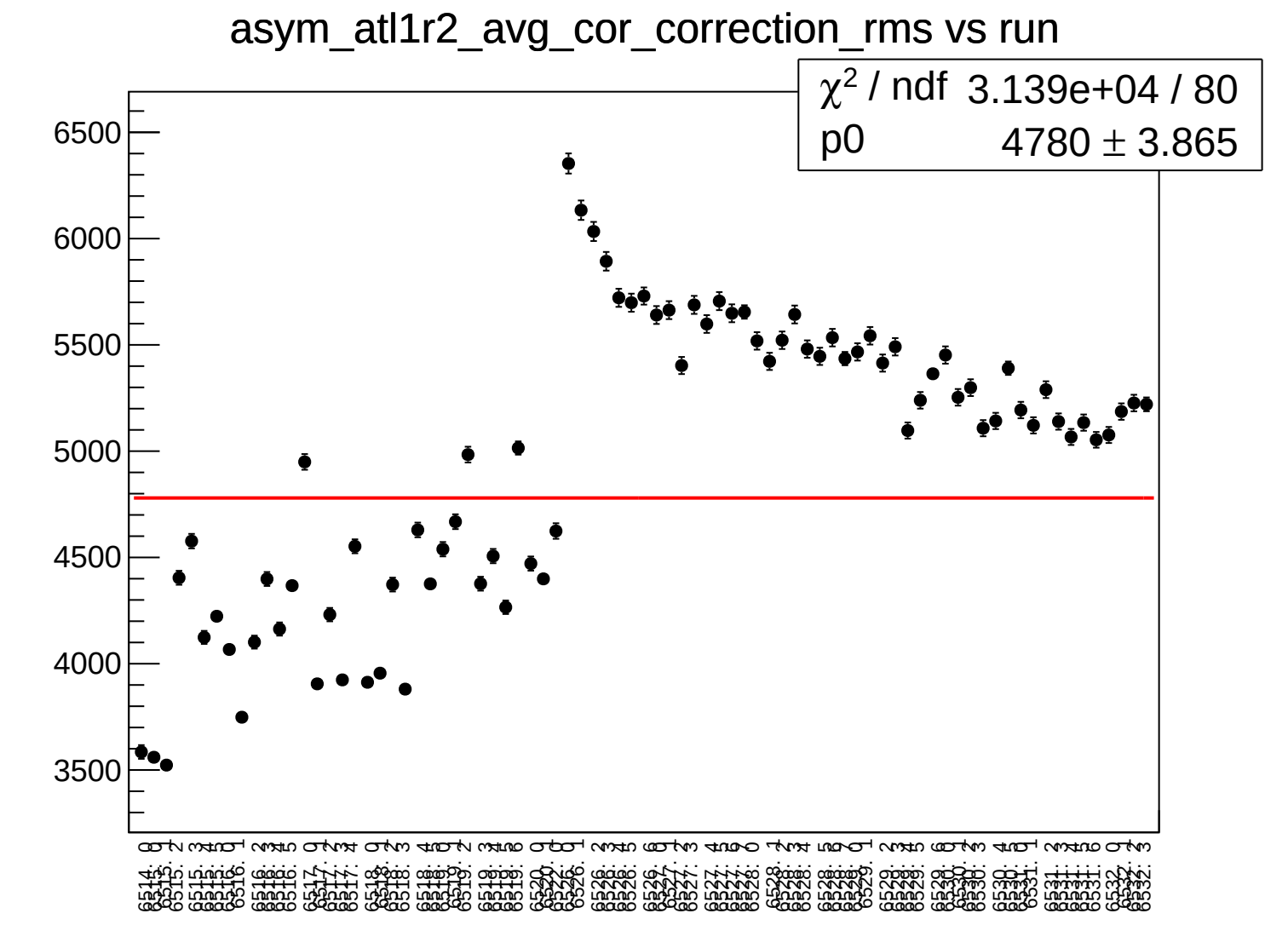

cor_asym_atl1r2_avg_mean vs run
χ² / ndf 60.16 / 80
p0 4662 ± 2002
pull
Entries 81
Mean −50.32
Std Dev 0

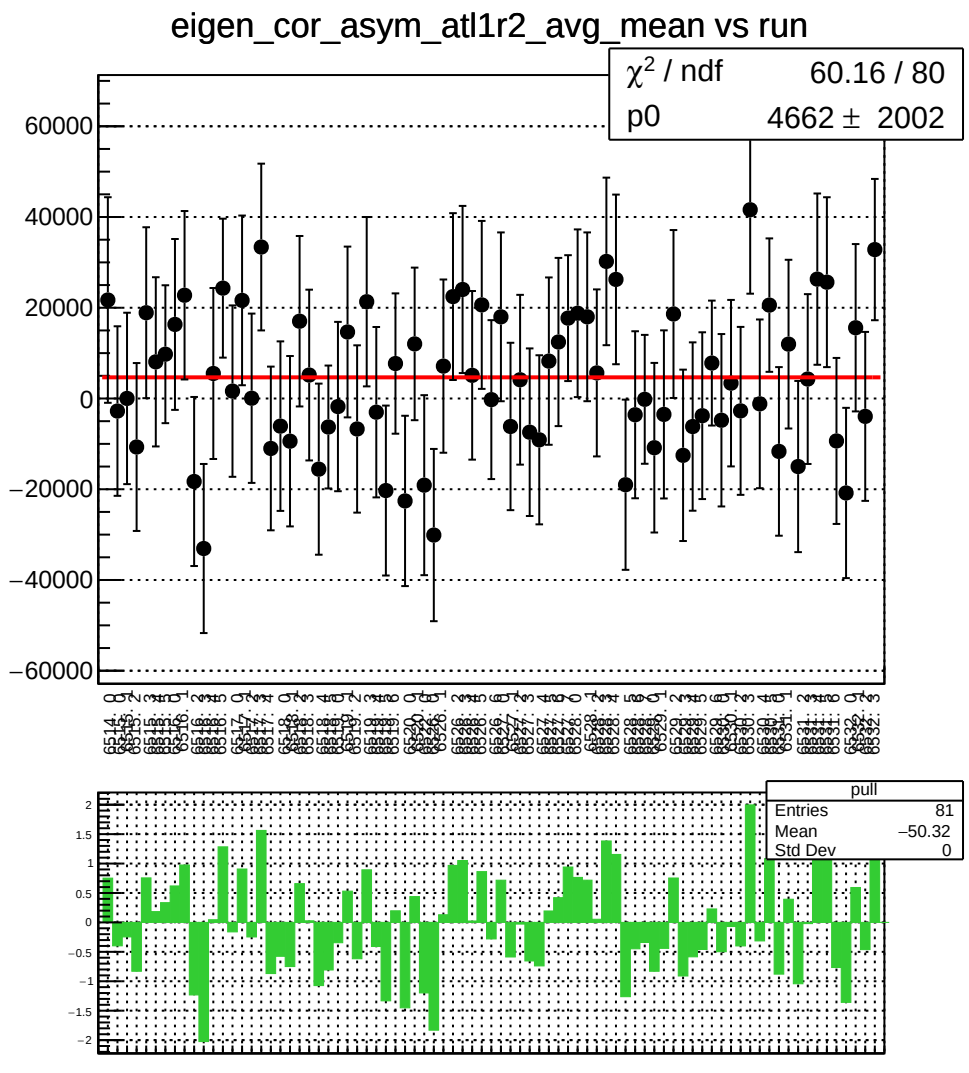

pull1D
Entries 81
Mean −0.01357
Std Dev 0.8617

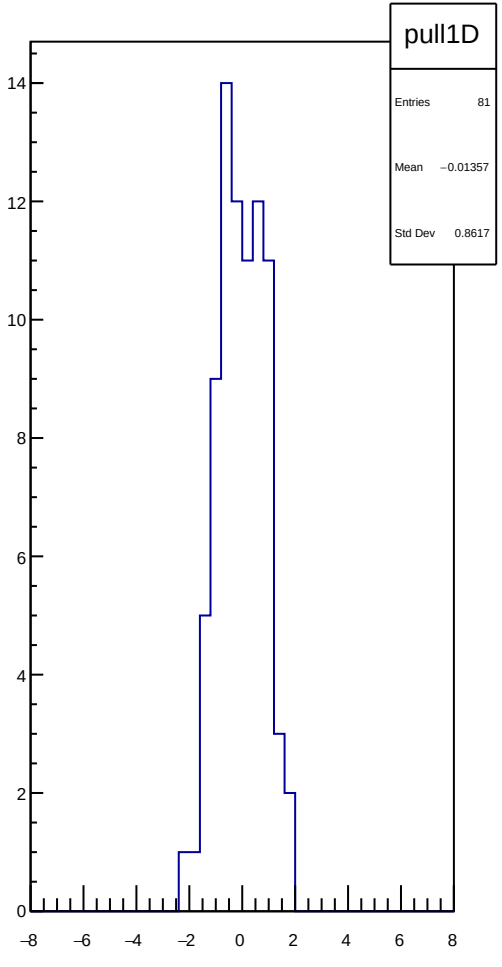

cor_asym_atl1r2_avg_rms vs run
χ² / ndf 115 / 80
p0 1768 ± 1.415
1820
1800
1780
1760
1740
1720

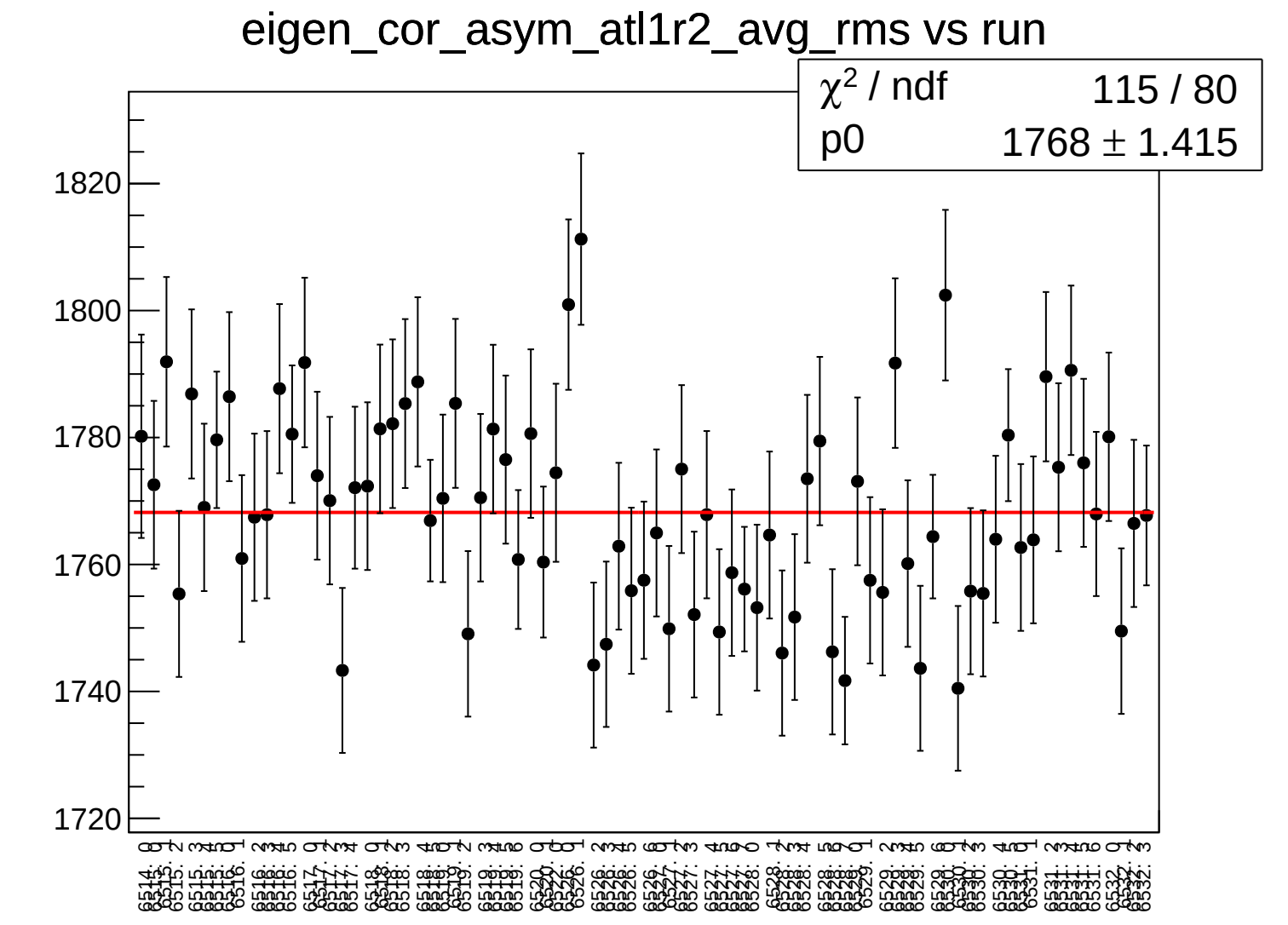

asym_atl1r2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 88.95 / 80
p0 4403 ± 5466
pull
Entries 81
Mean −14.05
Std Dev 31.16

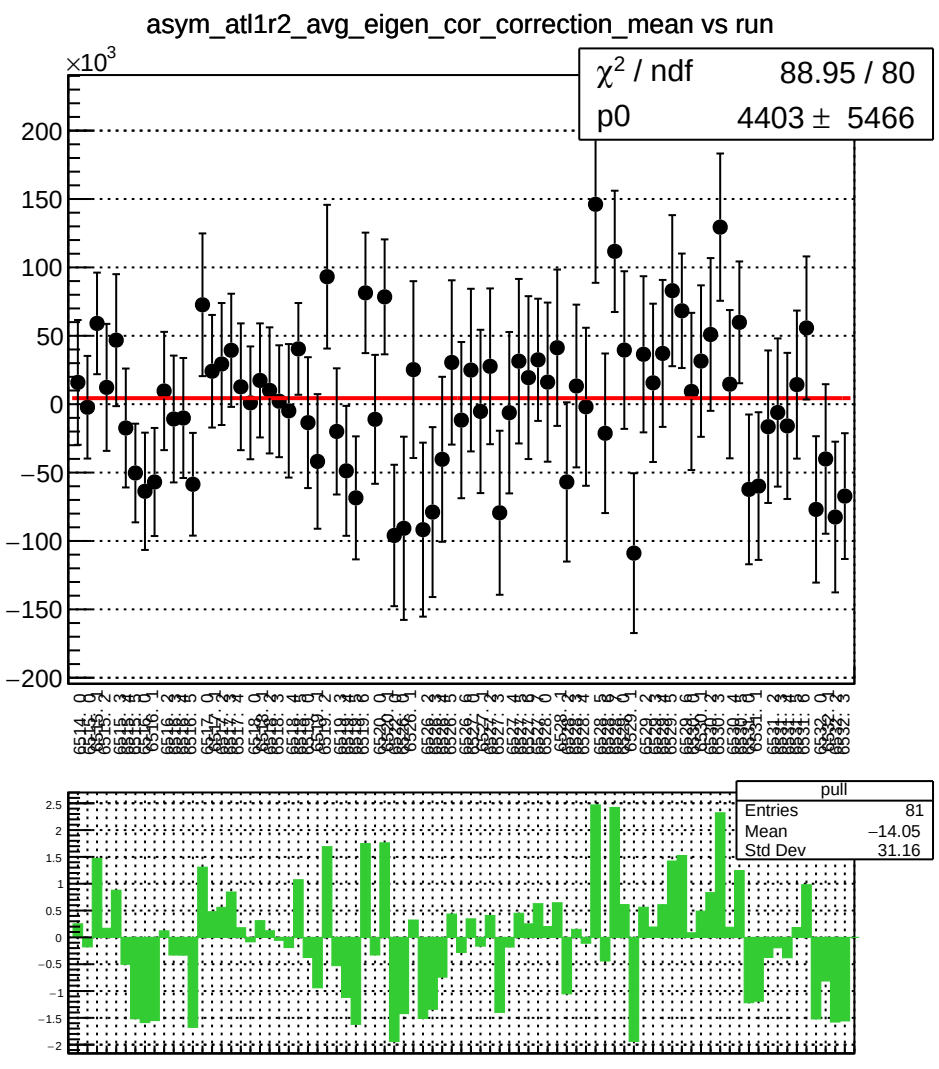

pull1D
Entries 81
Mean −0.01594
Std Dev 1.048

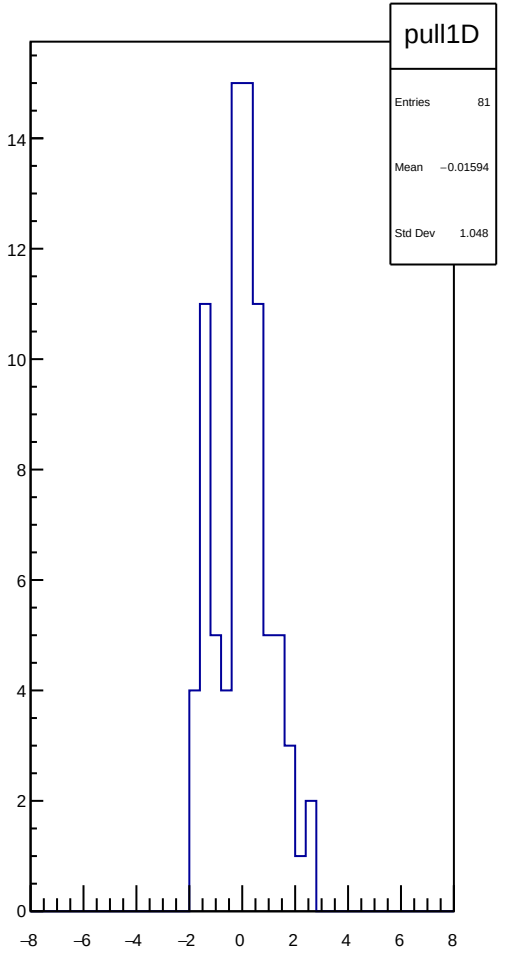

asym_atl1r2_avg_cor_correction_rms vs run
χ² / ndf 3.139e+04 / 80
p0 4780 ± 3.865
6500
6000
5500
5000
4500
4000
3500

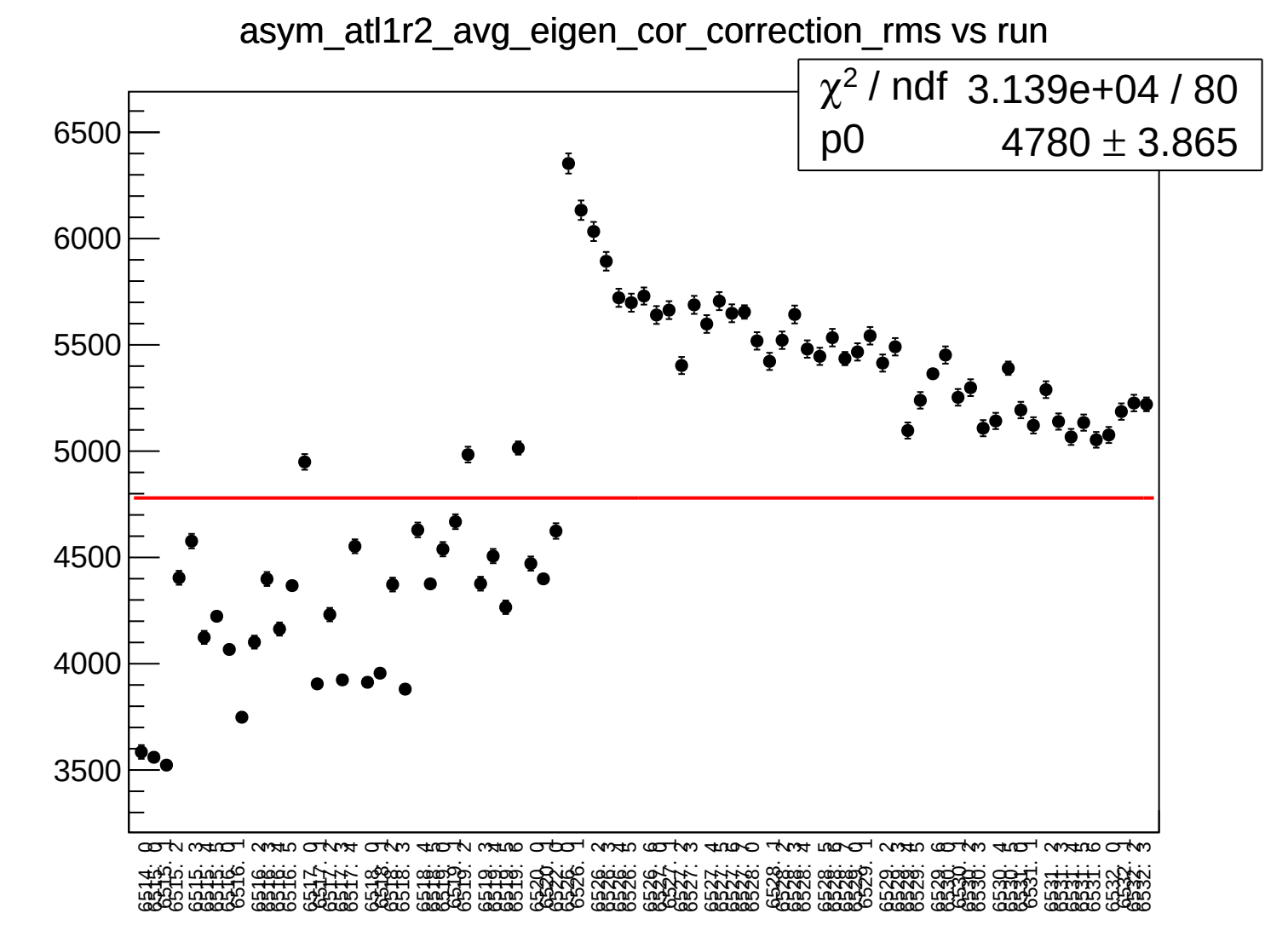

eigen_cor_asym_atl1r2_avg_mean vs run
χ² / ndf 60.16 / 80
p0 4662 ± 2002
pull
Entries 81
Mean −50.32
Std Dev 0

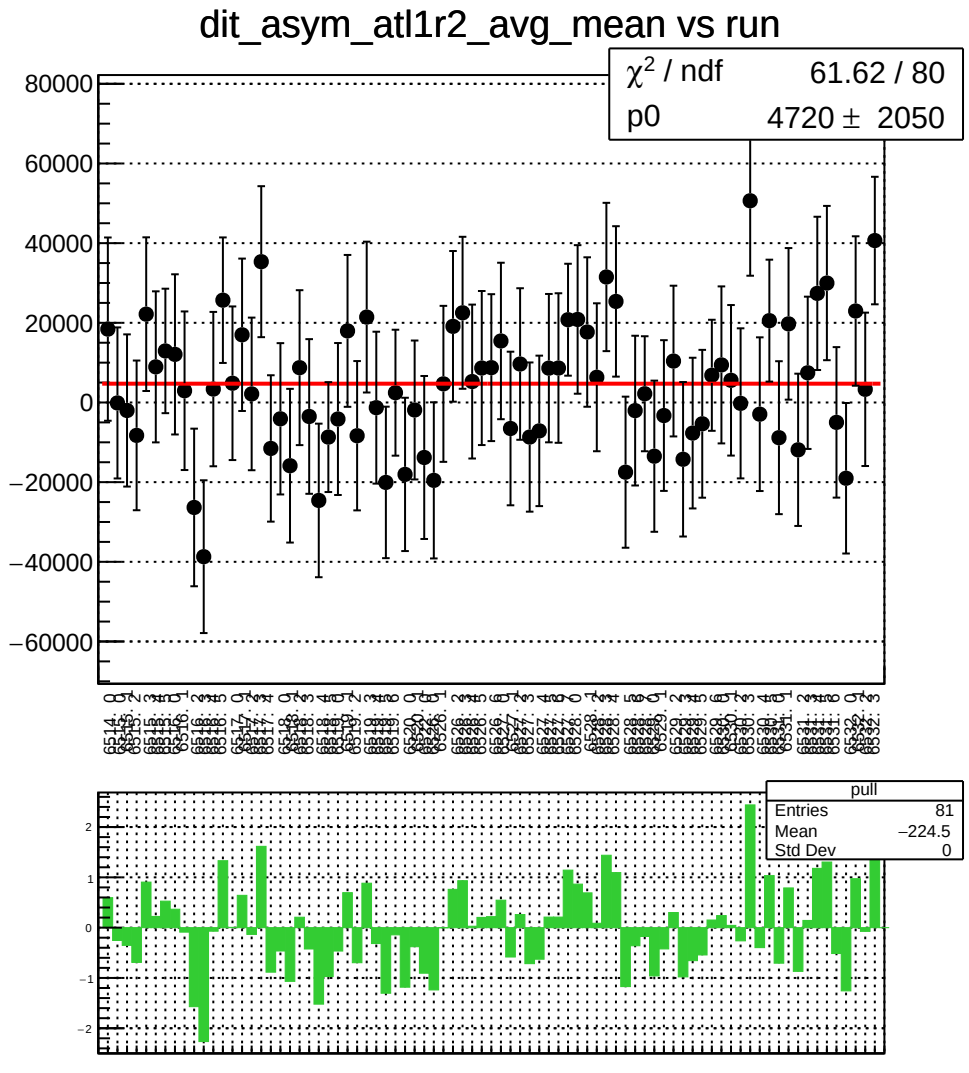

pull1D
Entries 81
Mean −0.01357
Std Dev 0.8617

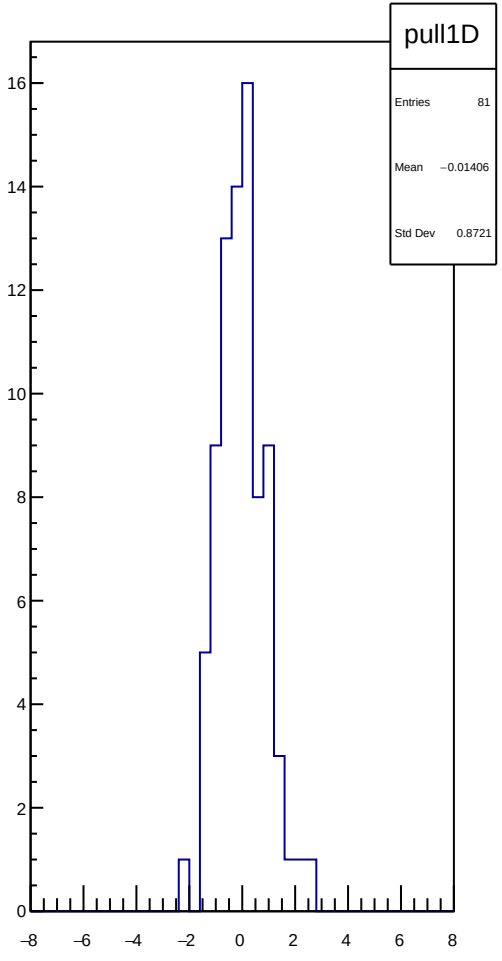

eigen_cor_asym_atl1r2_avg_rms vs run
χ^2 / ndf 115 / 80
p0 1768 ± 1.415
1820
1800
1780
1760
1740
1720

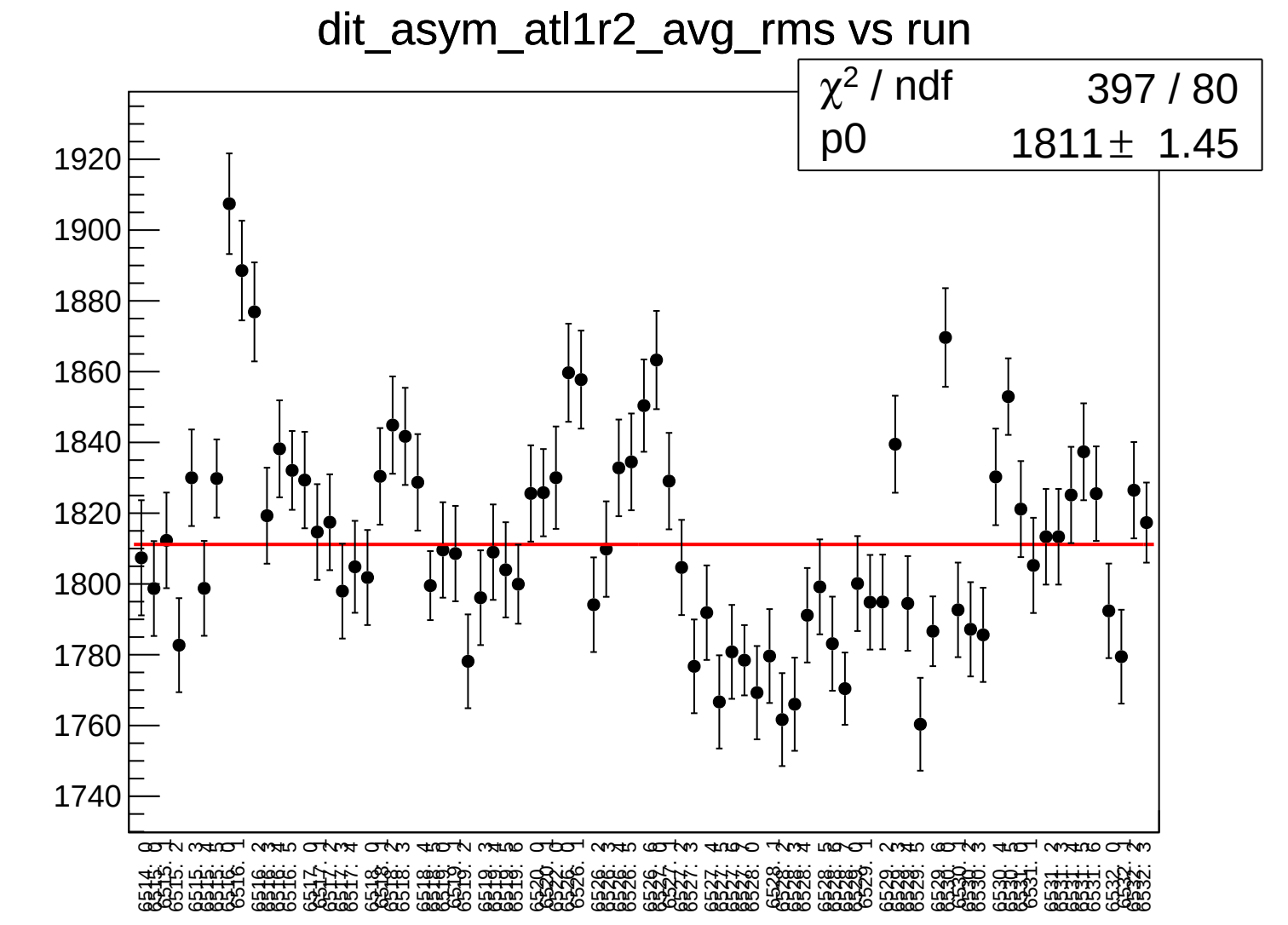

asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 88.95 / 80
p0 4403 ± 5466
pull
Entries 81
Mean −14.05
Std Dev 31.16

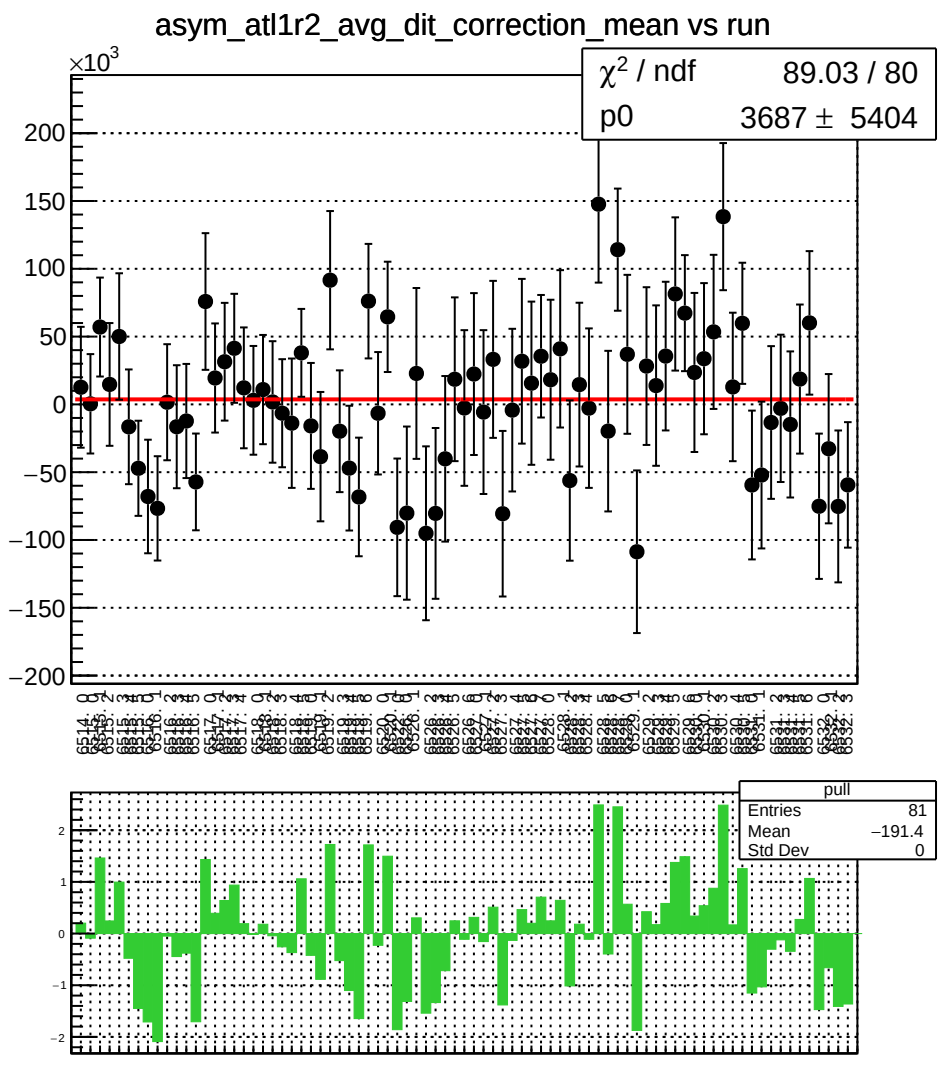

pull1D
Entries 81
Mean −0.01594
Std Dev 1.048

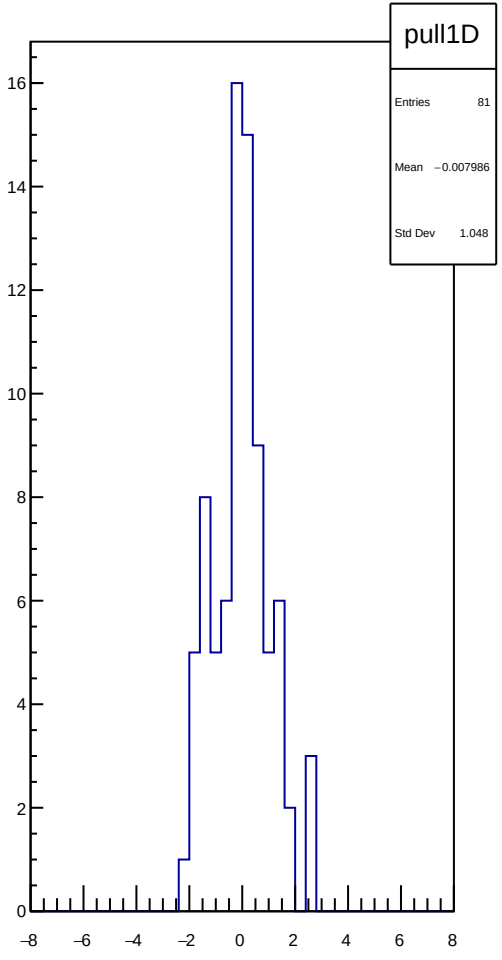

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.139e+04 / 80
p0 4780 ± 3.865
6500
6000
5500
5000
4500
4000
3500

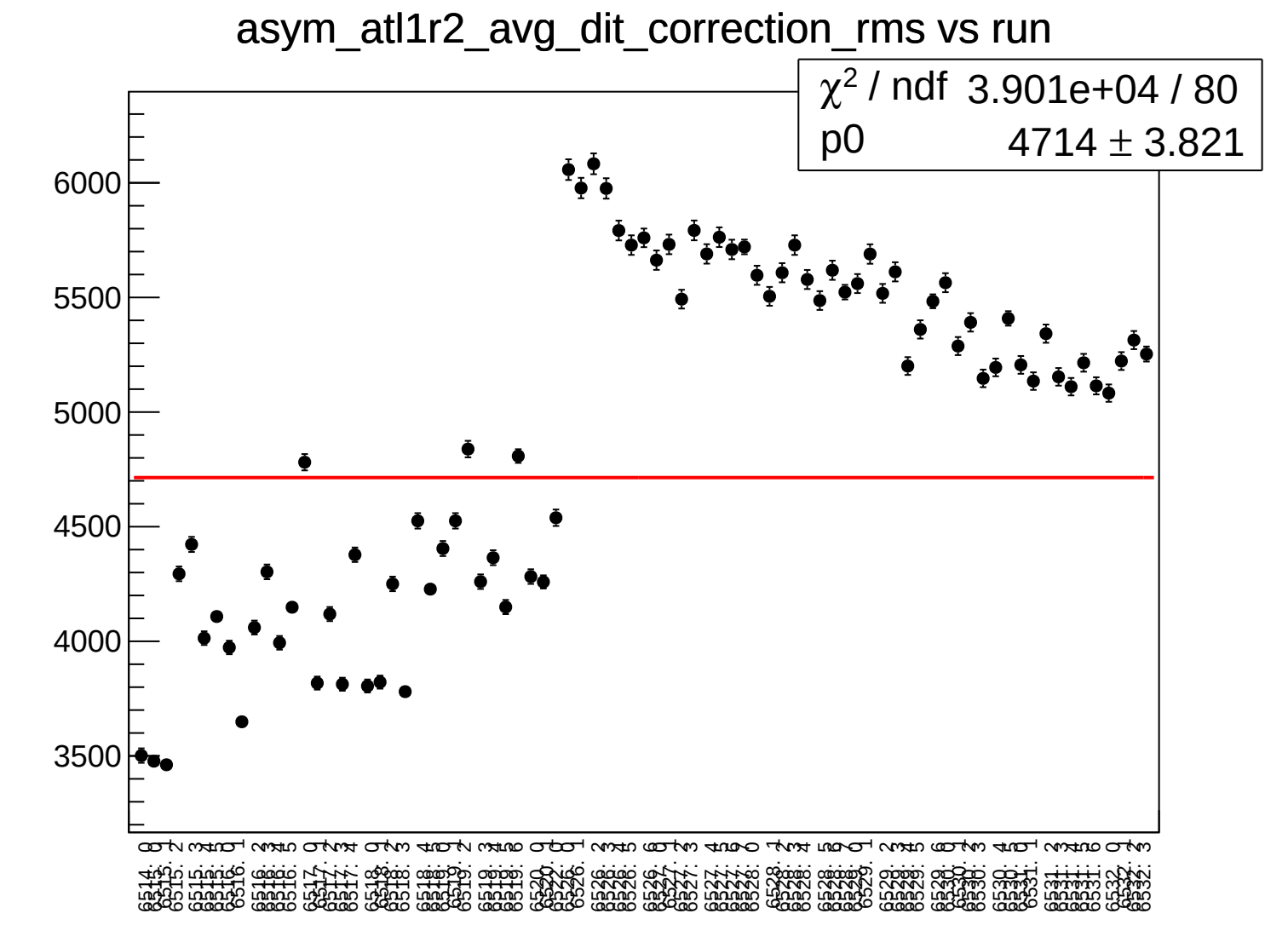

dit_asym_atl1r2_avg_mean vs run
χ² / ndf 61.62 / 80
p0 4720 ± 2050
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −224.5
Std Dev 0
2
1
0
−1
−2

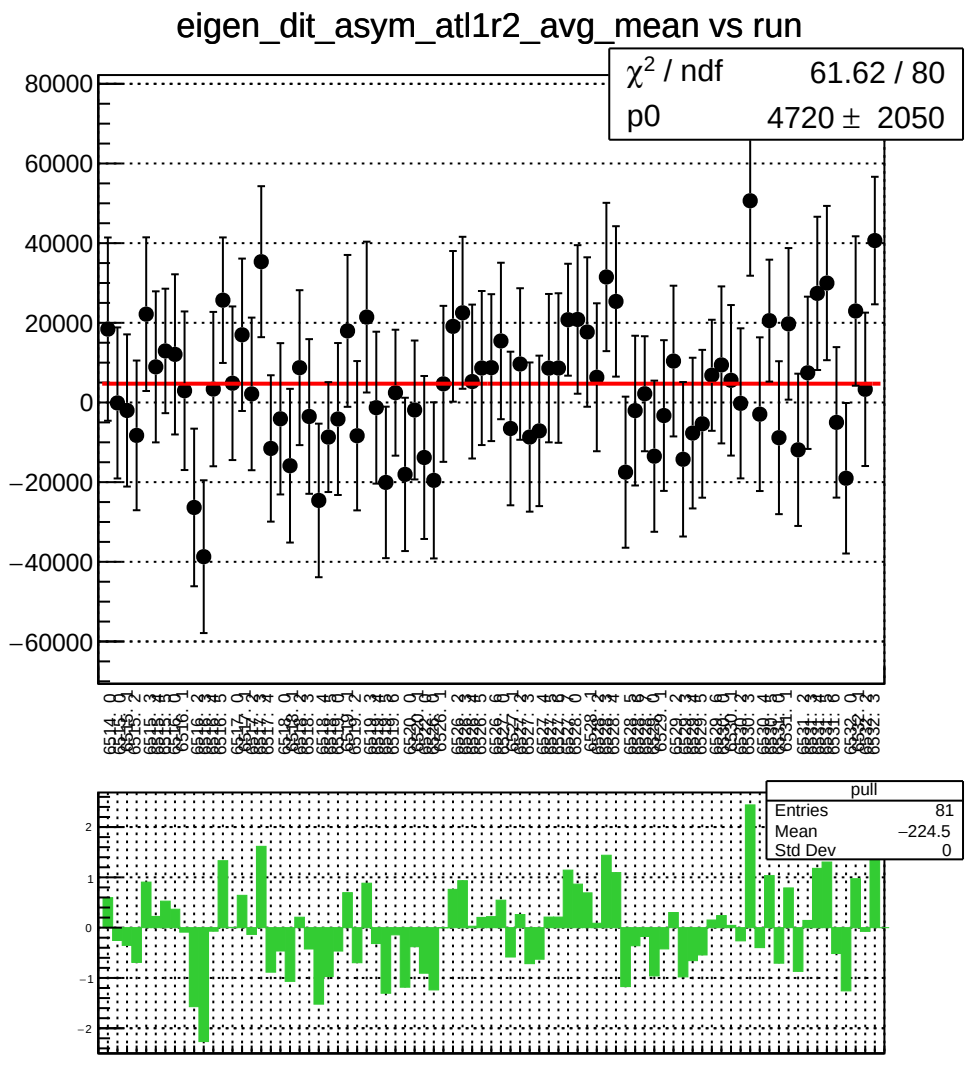

pull1D
Entries 81
Mean −0.01406
Std Dev 0.8721
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

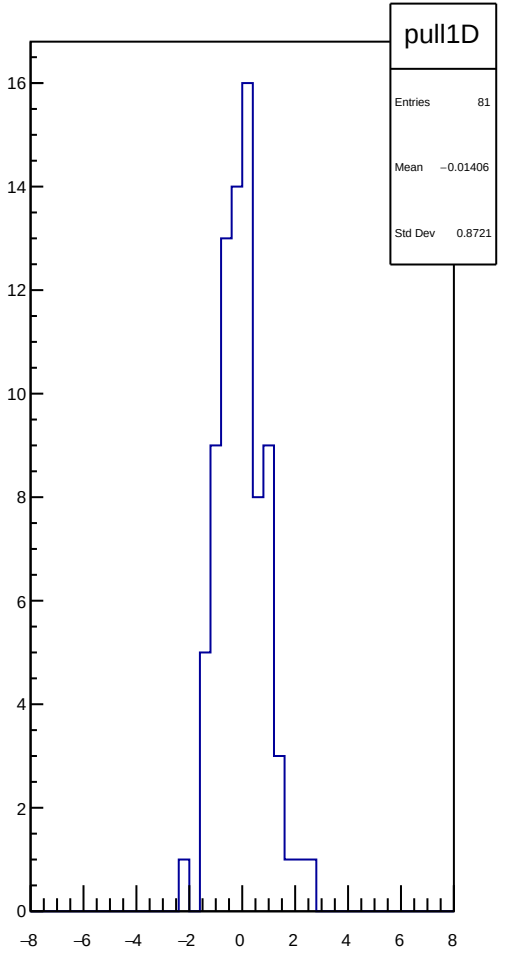

dit_asym_atl1r2_avg_rms vs run
χ² / ndf 397 / 80
p0 1811 ± 1.45
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740

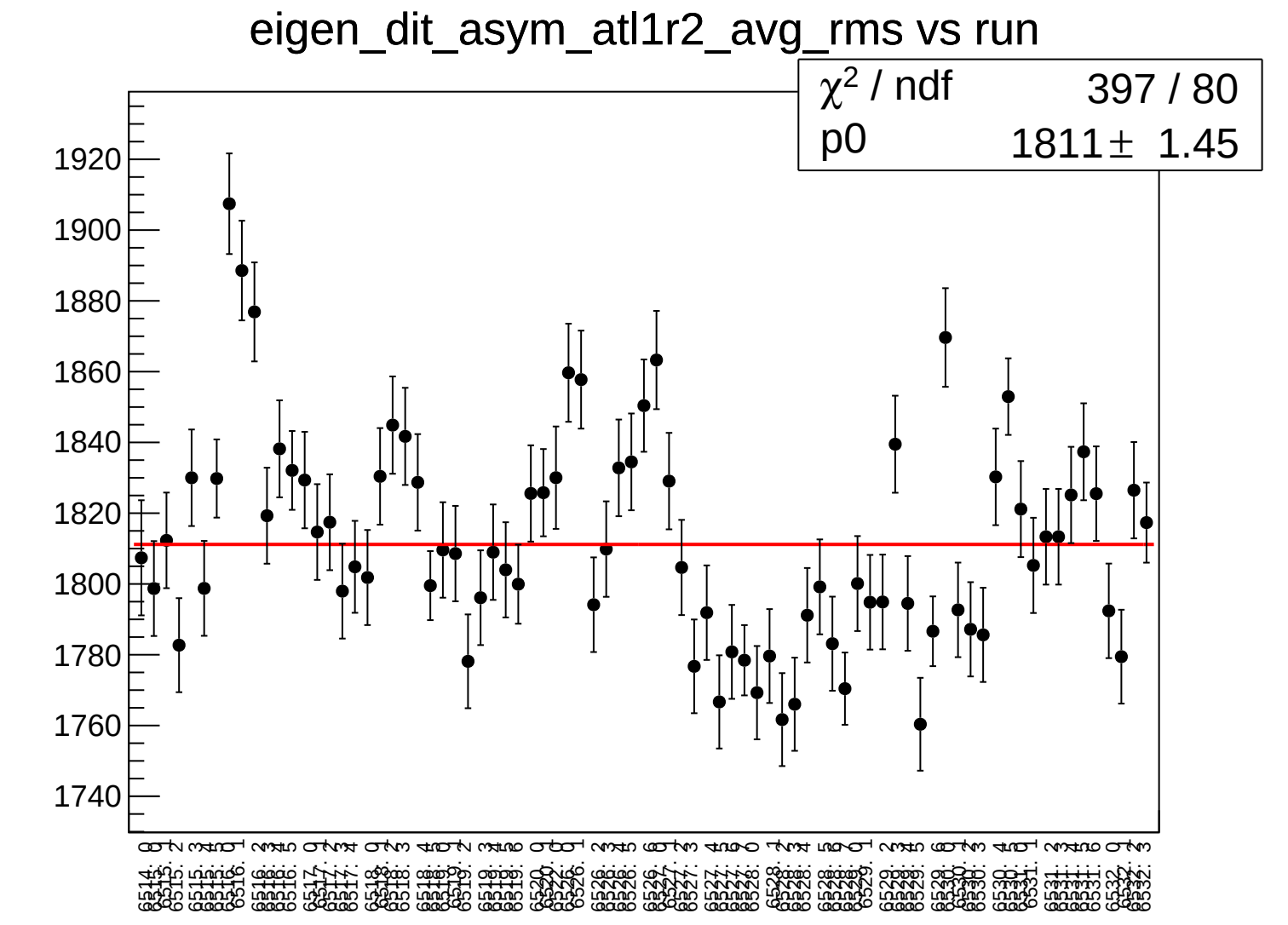

asym_atl1r2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 89.03 / 80
p0 3687 ± 5404
pull
Entries 81
Mean −191.4
Std Dev 0

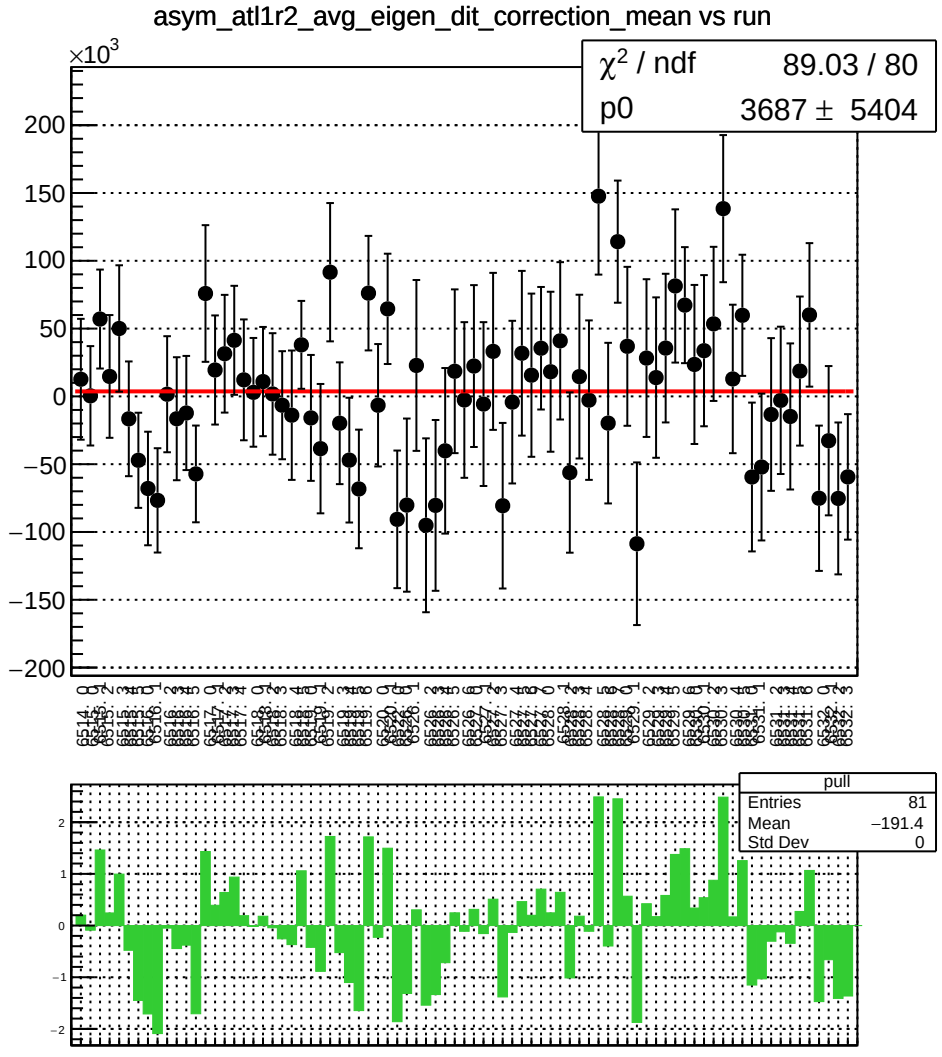

pull1D
Entries 81
Mean −0.007986
Std Dev 1.048

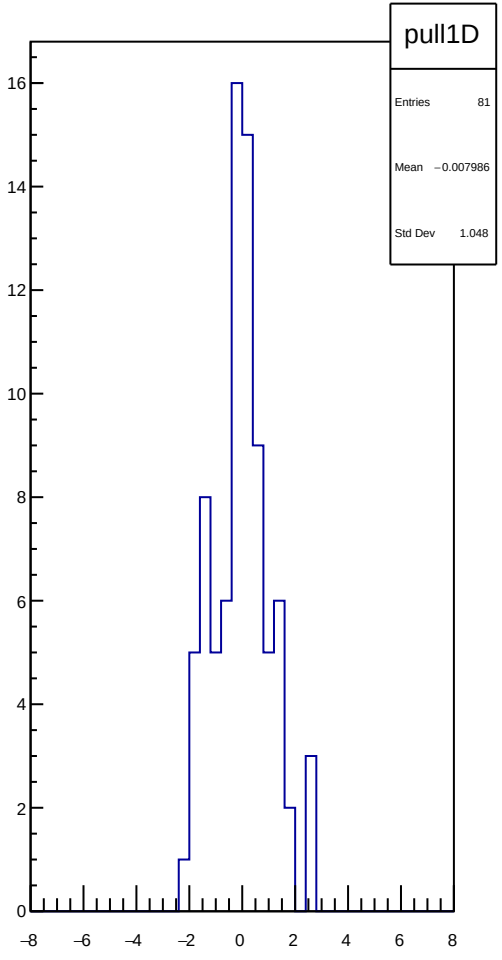

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 3.901e+04 / 80
p0 4714 ± 3.821
6000
5500
5000
4500
4000
3500

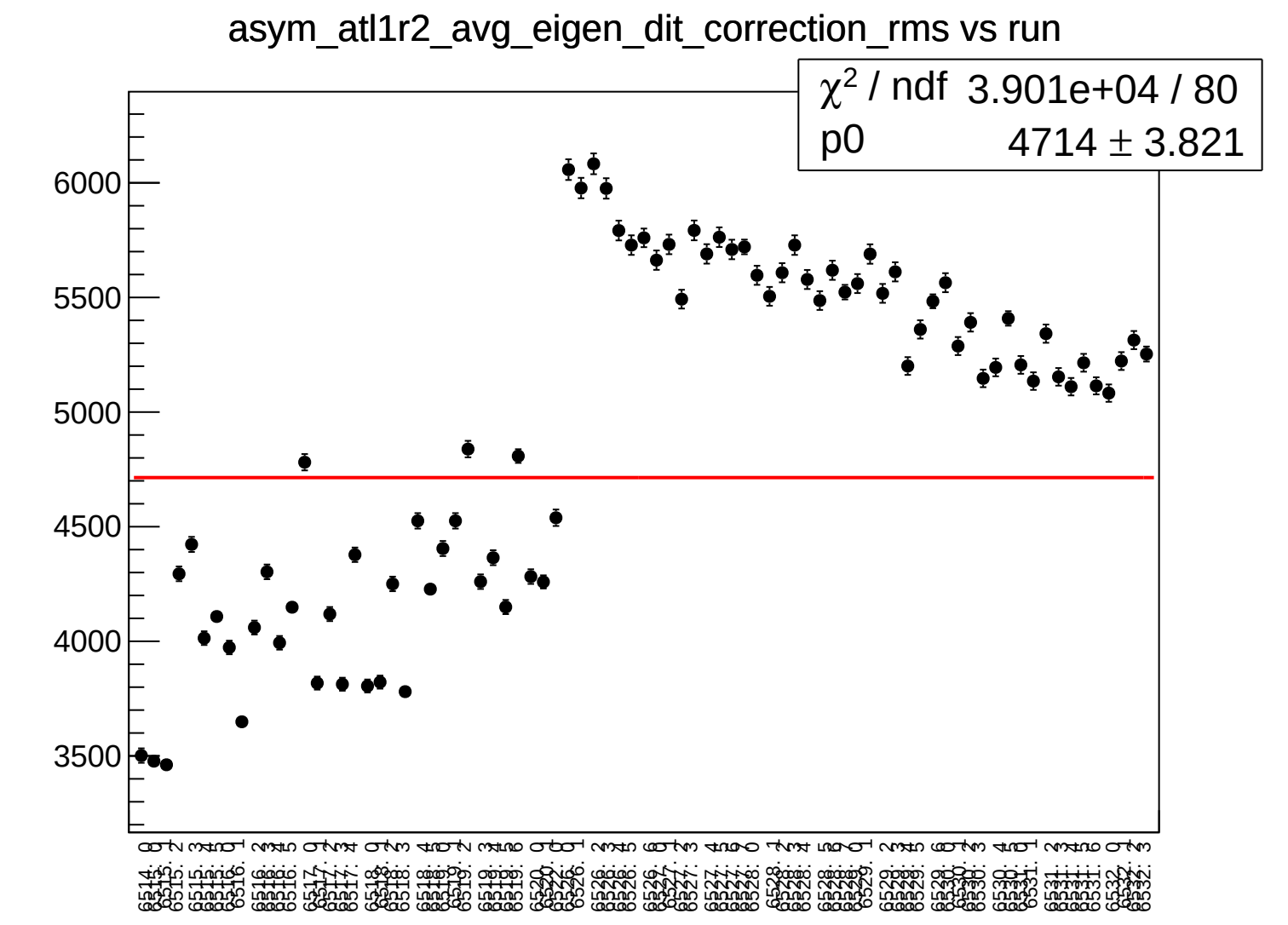

eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 61.62 / 80
p0 4720 ± 2050
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −224.5
Std Dev 0
2
1
0
−1
−2

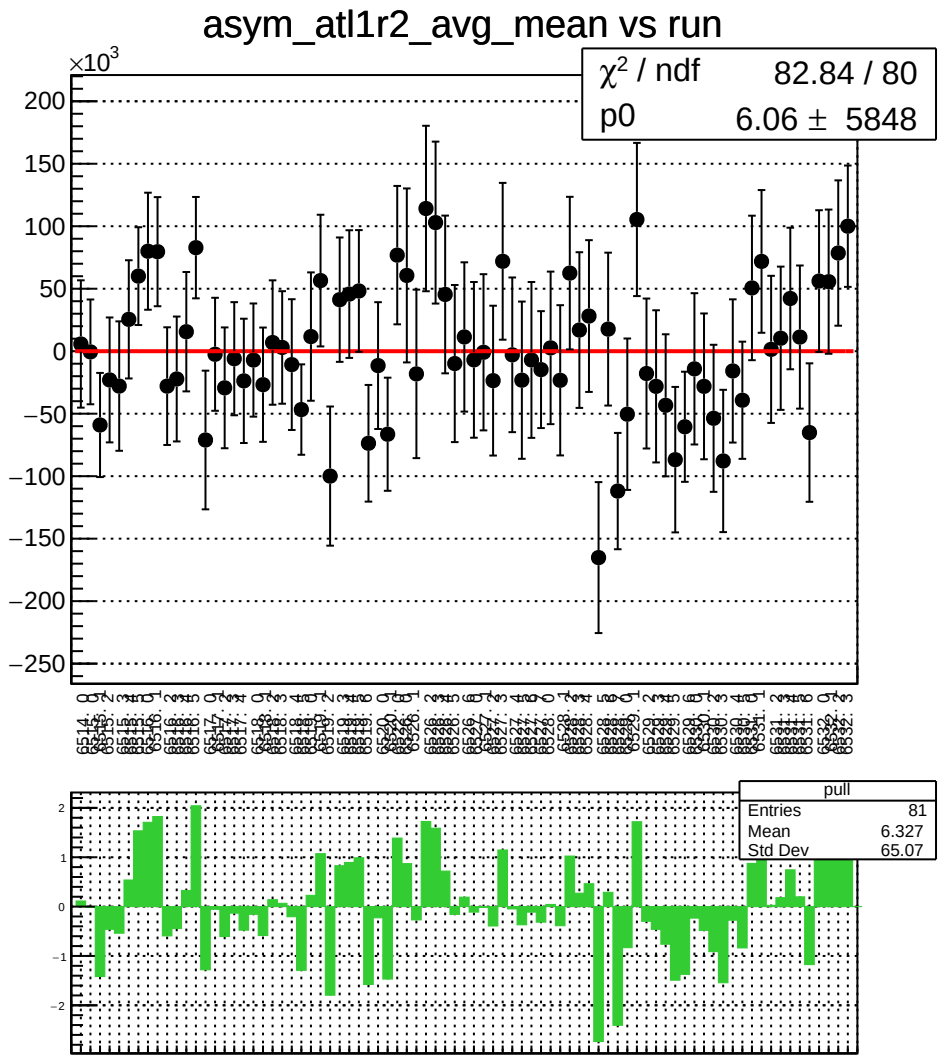

pull1D
Entries 81
Mean −0.01406
Std Dev 0.8721
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

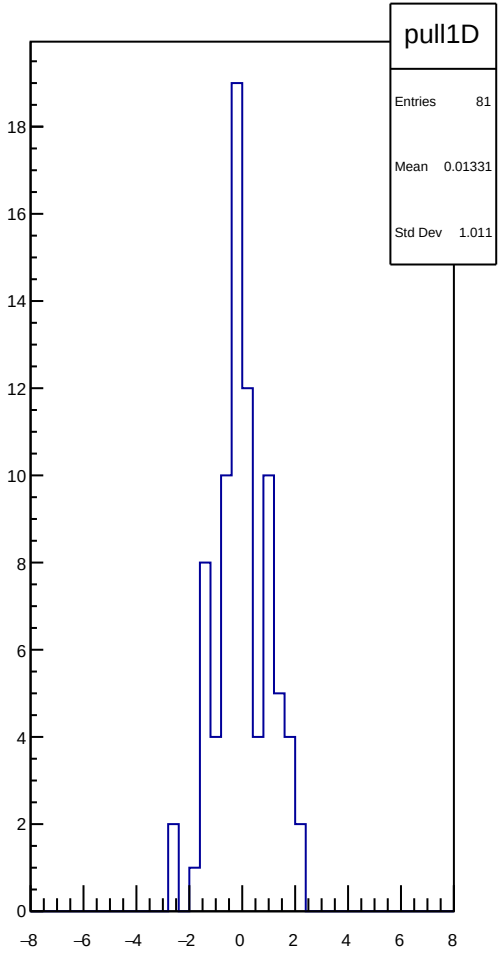

eigen_dit_asym_atl1r2_avg_rms vs run
χ² / ndf 397 / 80
p0 1811 ± 1.45
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740

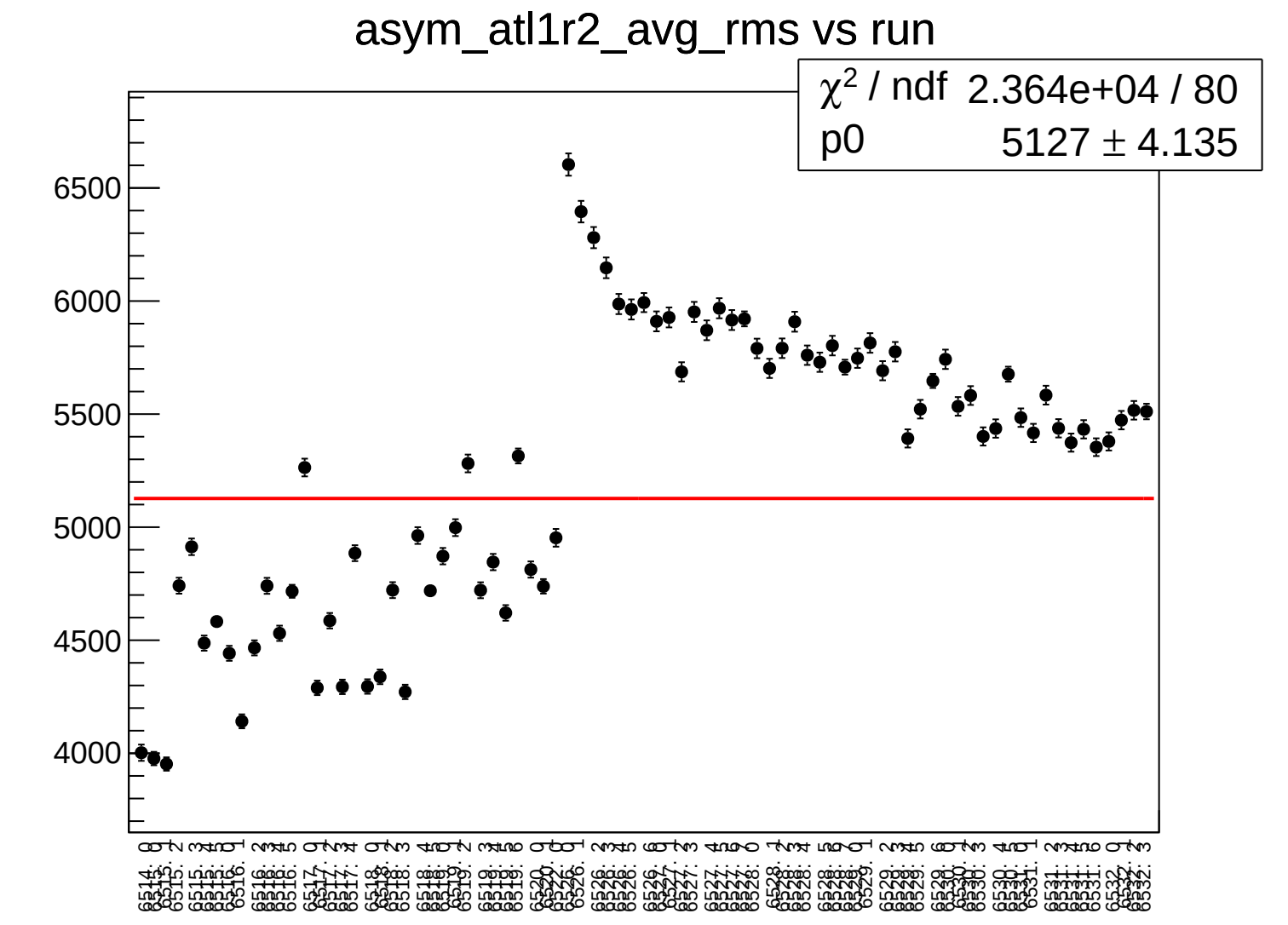

asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 89.03 / 80
p0 3687 ± 5404
pull
Entries 81
Mean −191.4
Std Dev 0

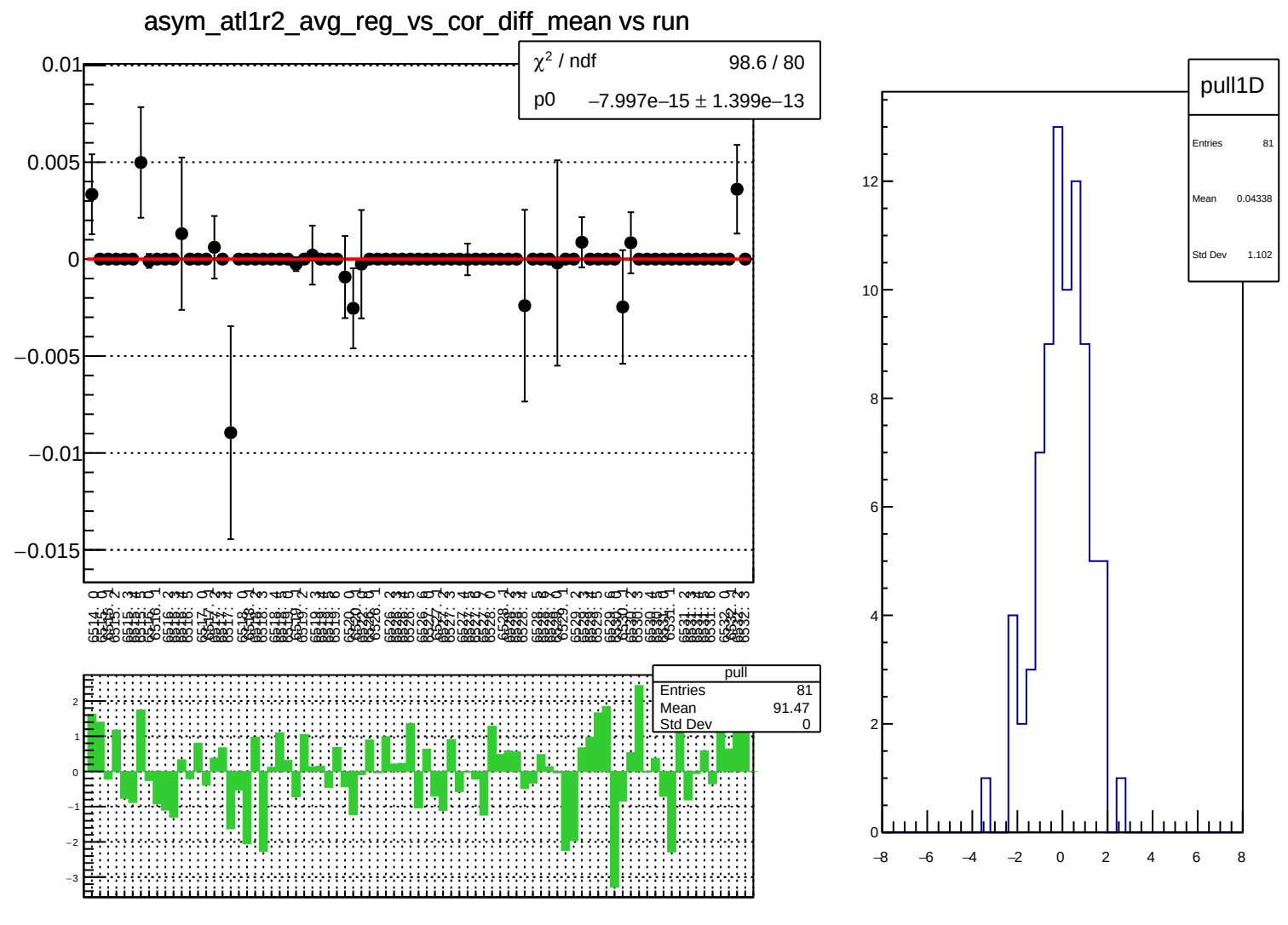

pull1D
Entries 81
Mean −0.007986
Std Dev 1.048

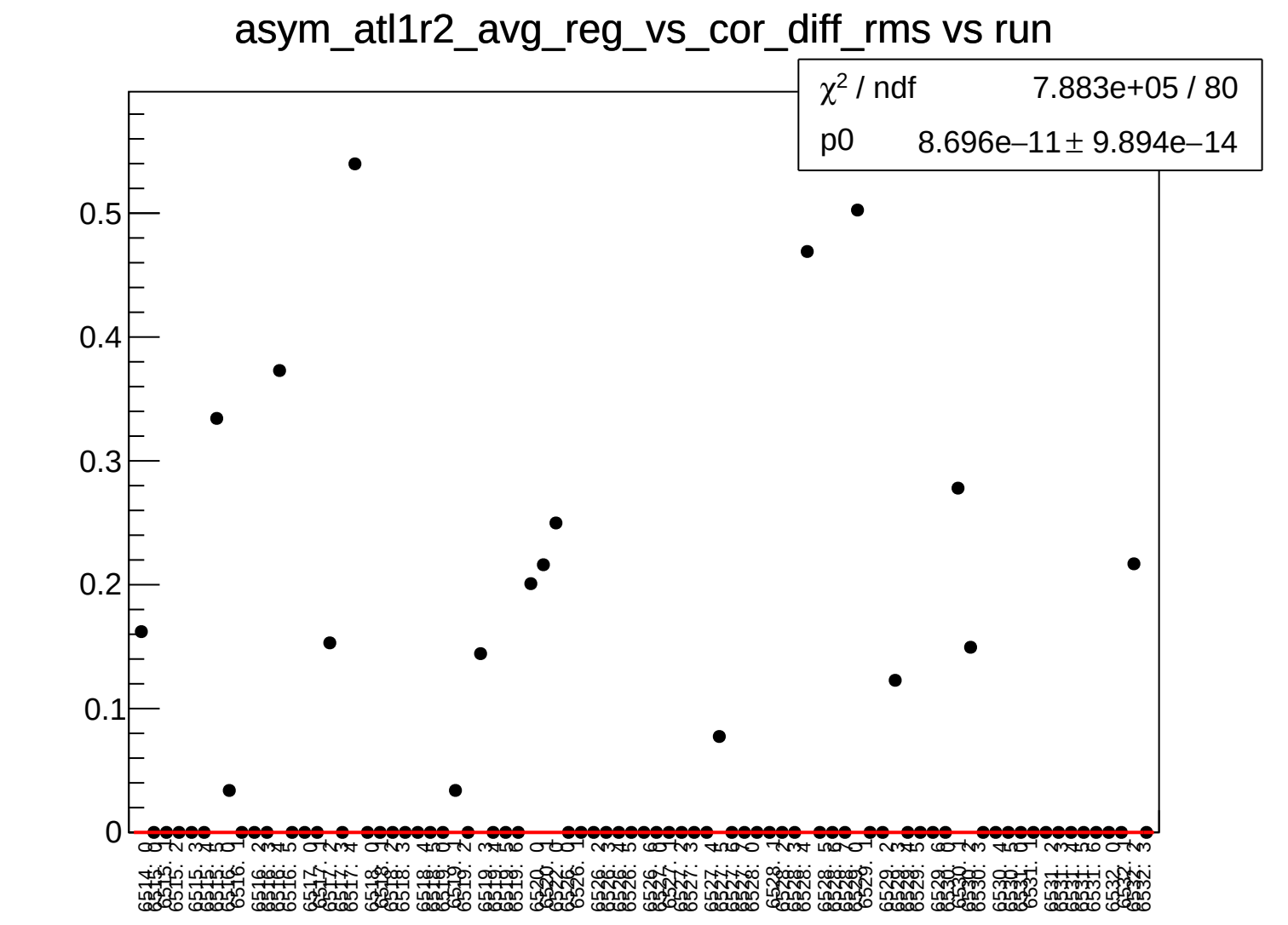

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.901e+04 / 80
p0 4714 ± 3.821
6000
5500
5000
4500
4000
3500

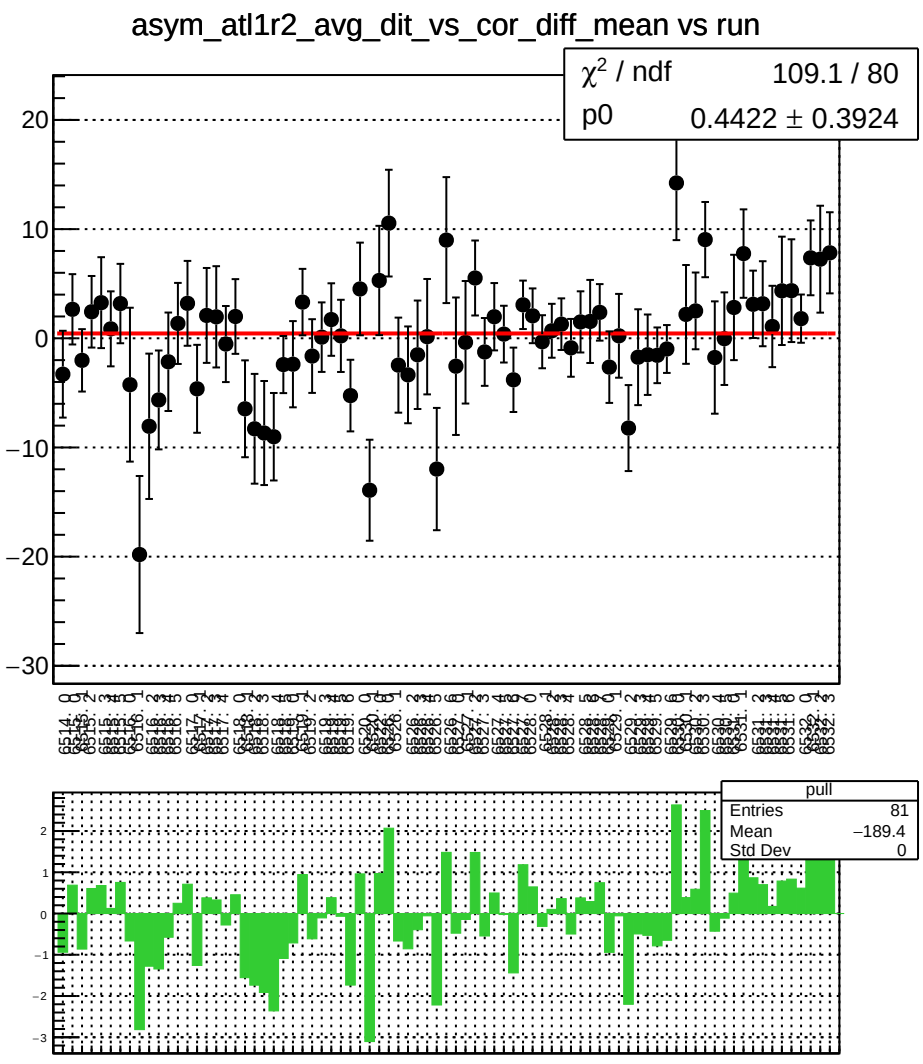

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 82.84 / 80
p0 6.06 ± 5848
pull
Entries 81
Mean 6.327
Std Dev 65.07

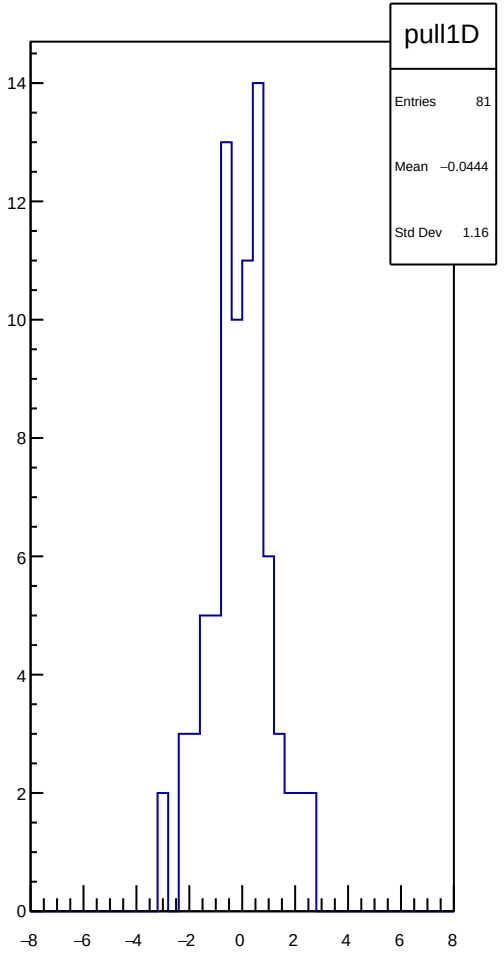

pull1D
Entries 81
Mean 0.01331
Std Dev 1.011

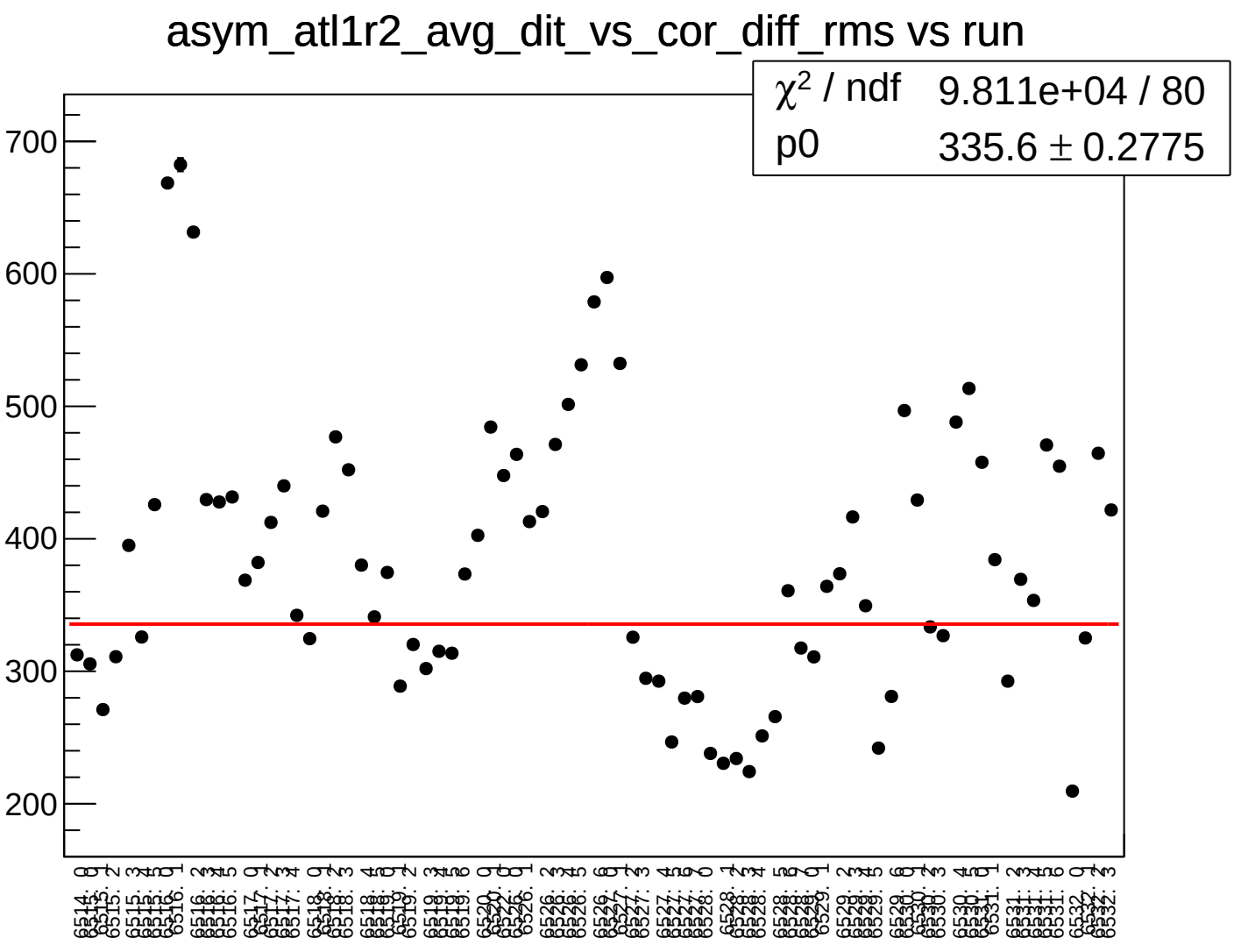

asym_atl1r2_avg_rms vs run
χ² / ndf 2.364e+04 / 80
p0 5127 ± 4.135
6500
6000
5500
5000
4500
4000

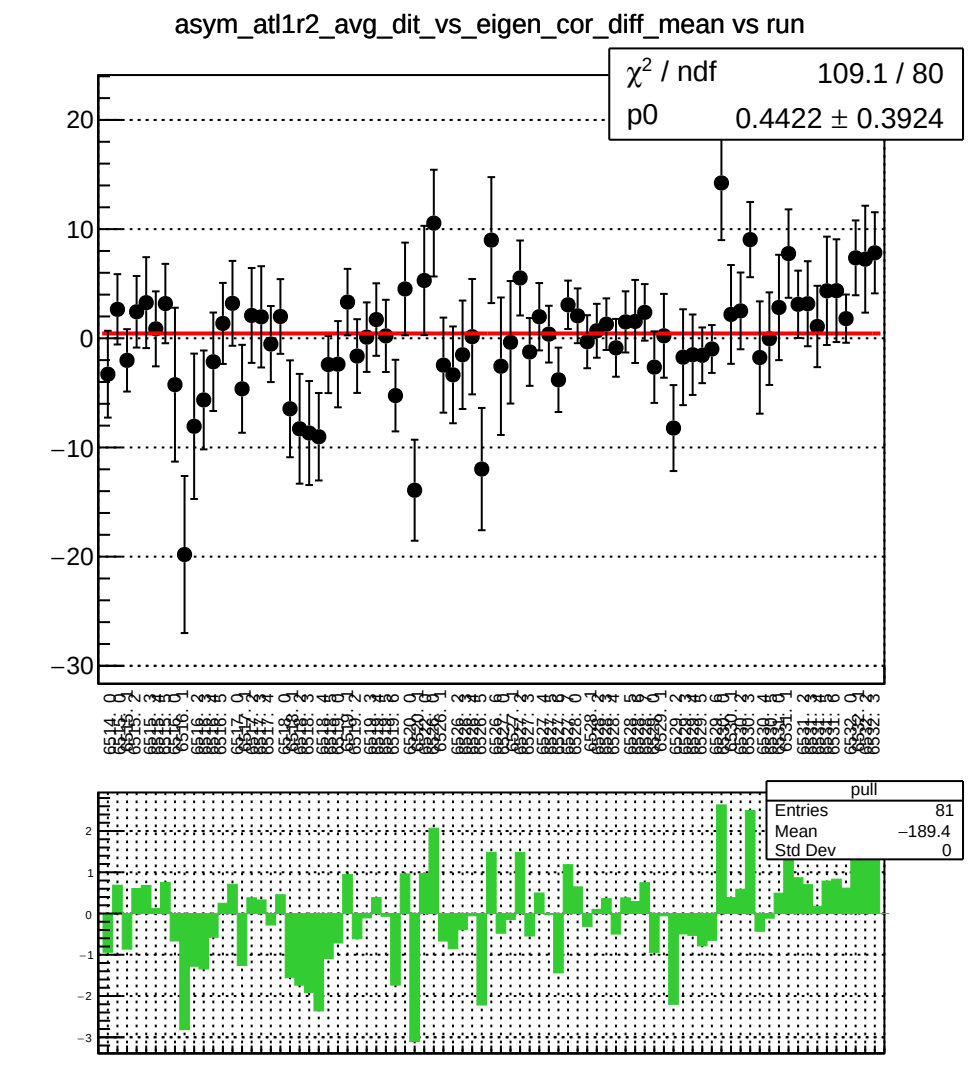

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 98.6 / 80
p0 −7.997e−15 ± 1.399e−13
pull
Entries 81
Mean 91.47
Std Dev 0
pull1D
Entries 81
Mean 0.04338
Std Dev 1.102

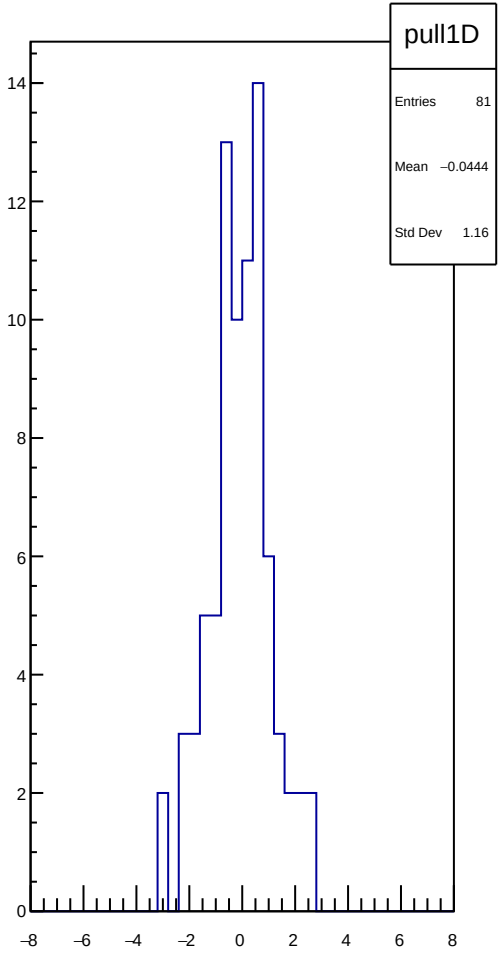

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 7.883e+05 / 80
p0 8.696e−11 ± 9.894e−14
0.5
0.4
0.3
0.2
0.1
0

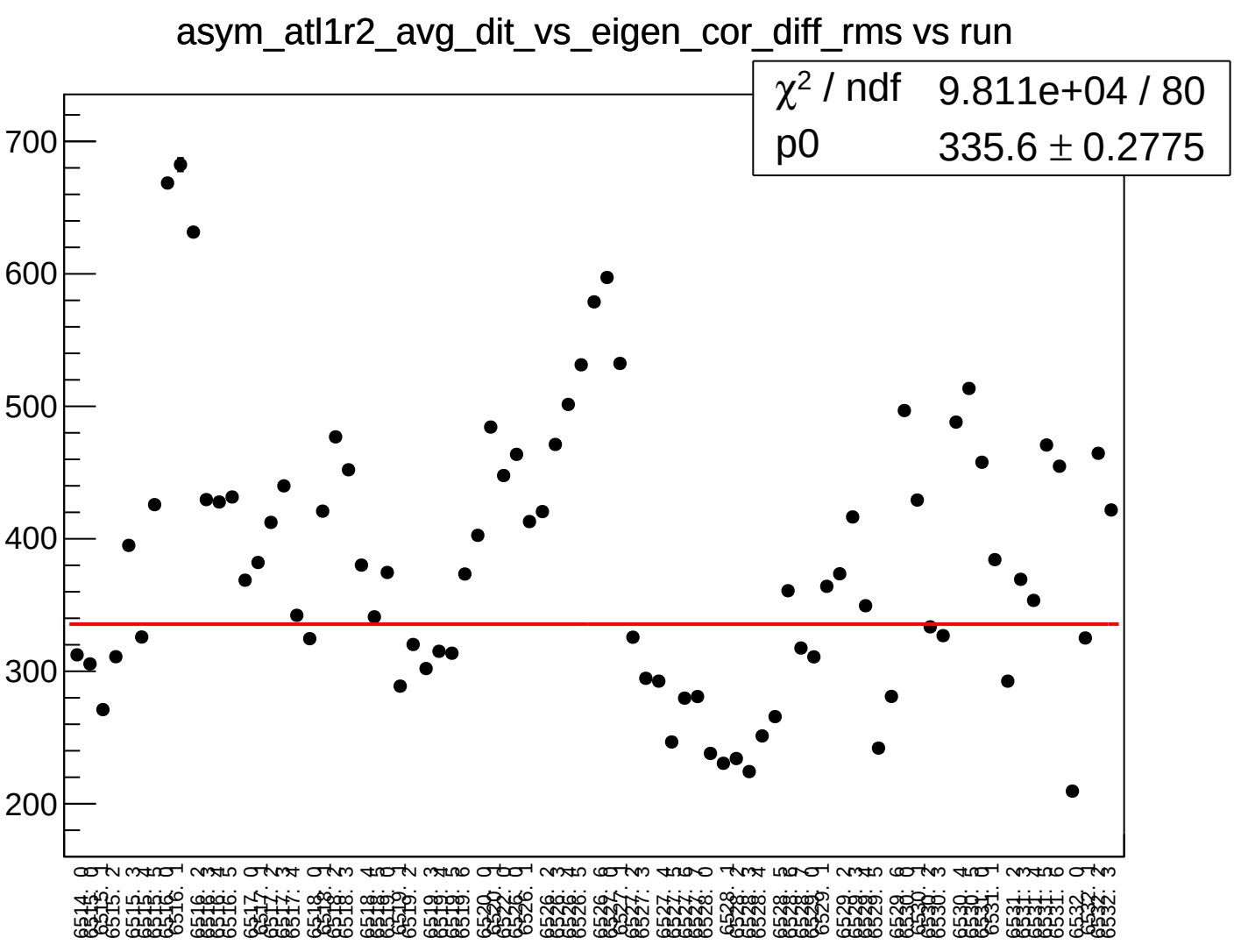

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 109.1 / 80
p0 0.4422 ± 0.3924
pull
Entries 81
Mean −189.4
Std Dev 0

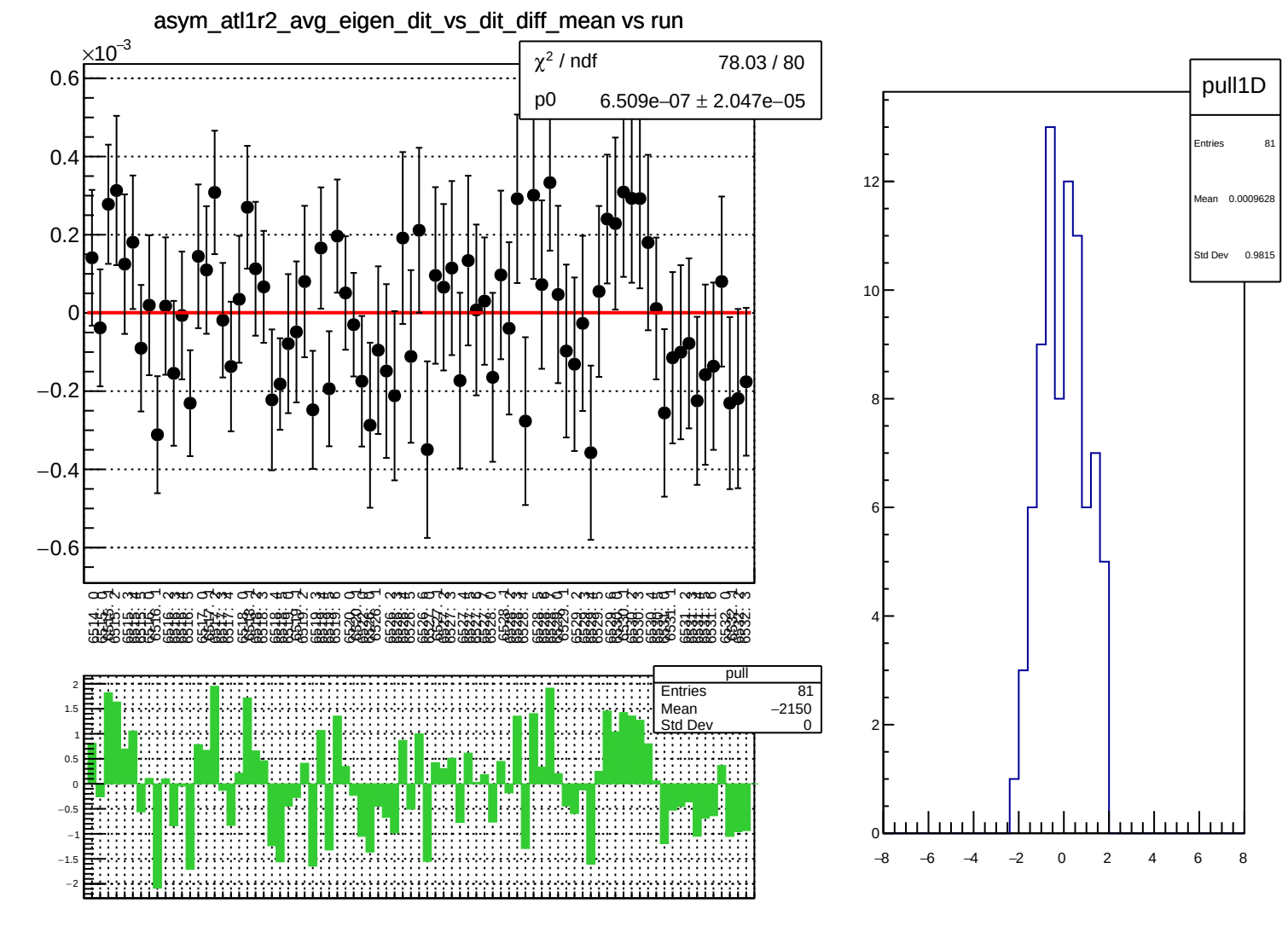

pull1D
Entries 81
Mean −0.0444
Std Dev 1.16

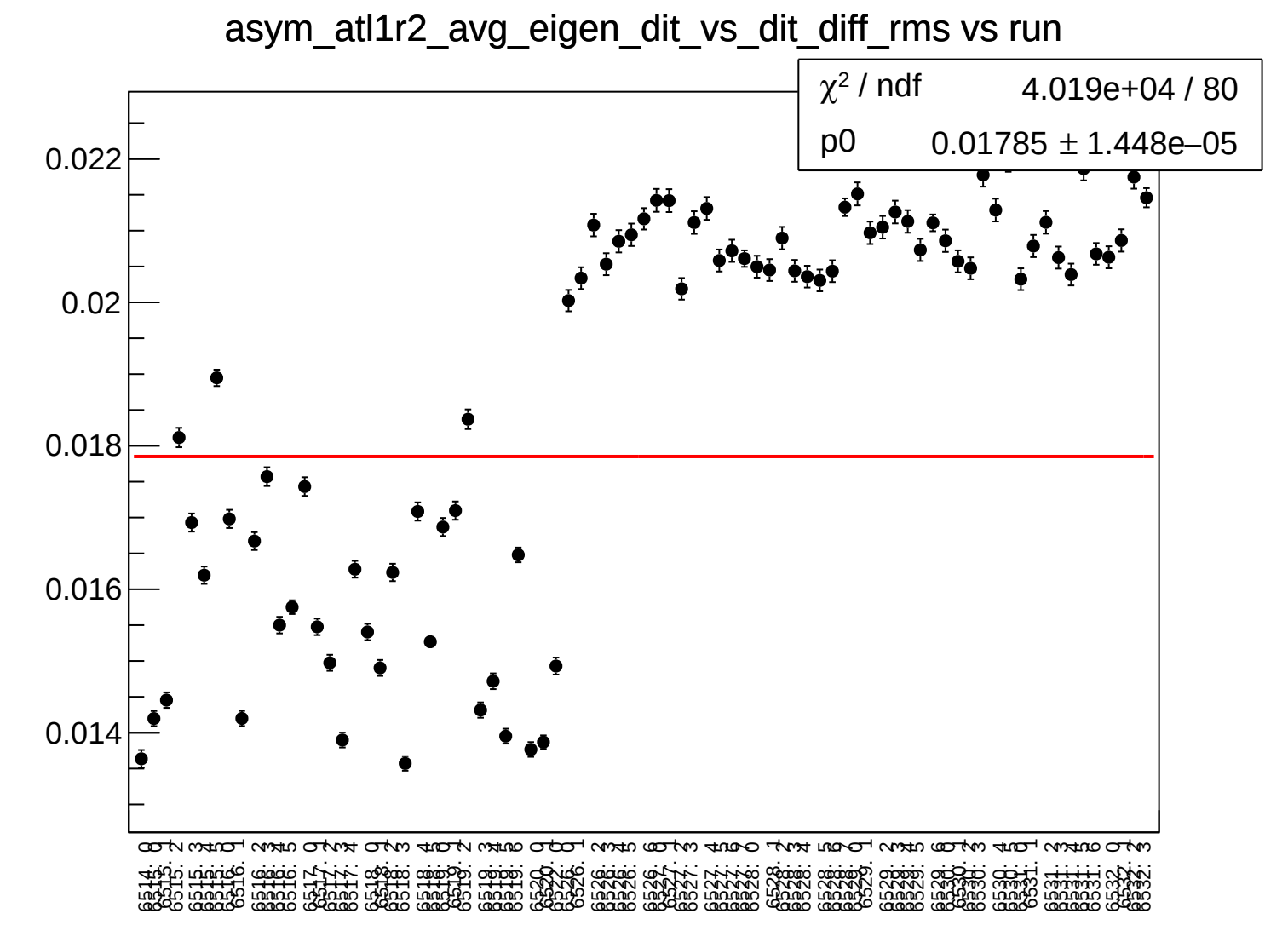

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9.811e+04 / 80
p0 335.6 ± 0.2775
700
600
500
400
300
200

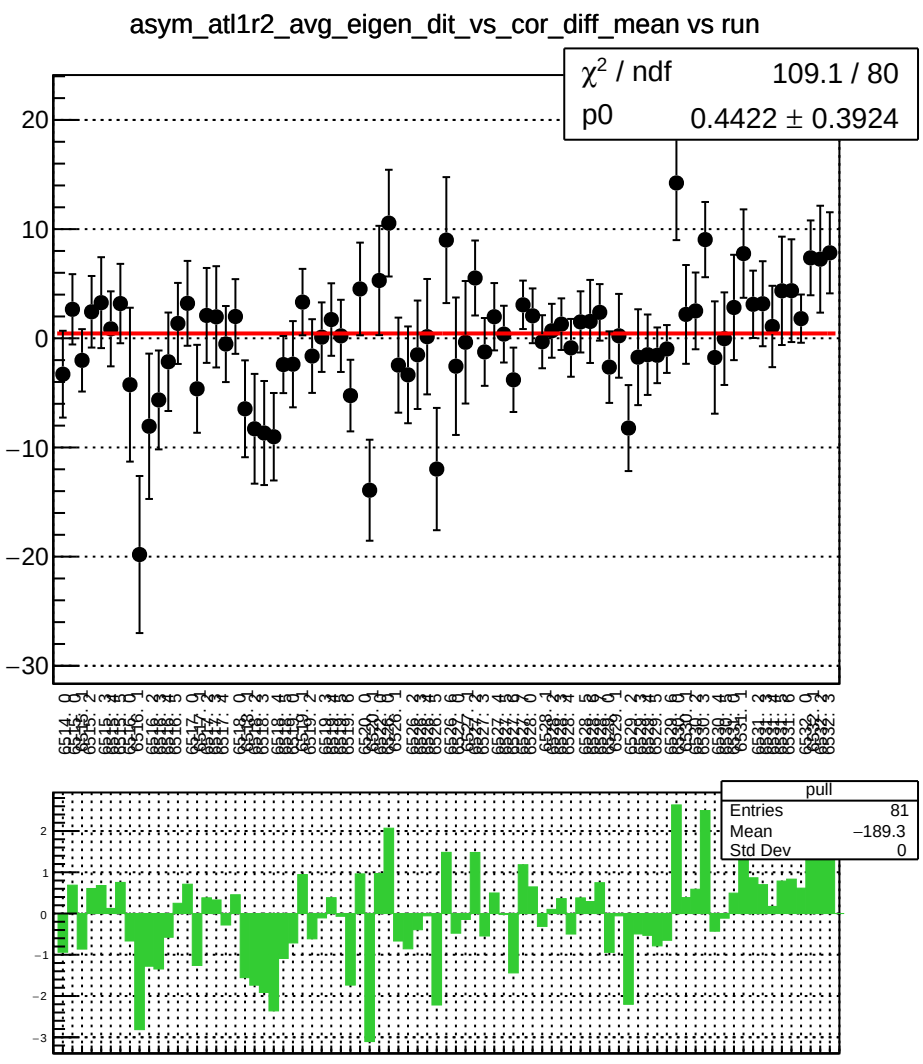

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.1 / 80
p0 0.4422 ± 0.3924
pull
Entries 81
Mean −189.4
Std Dev 0

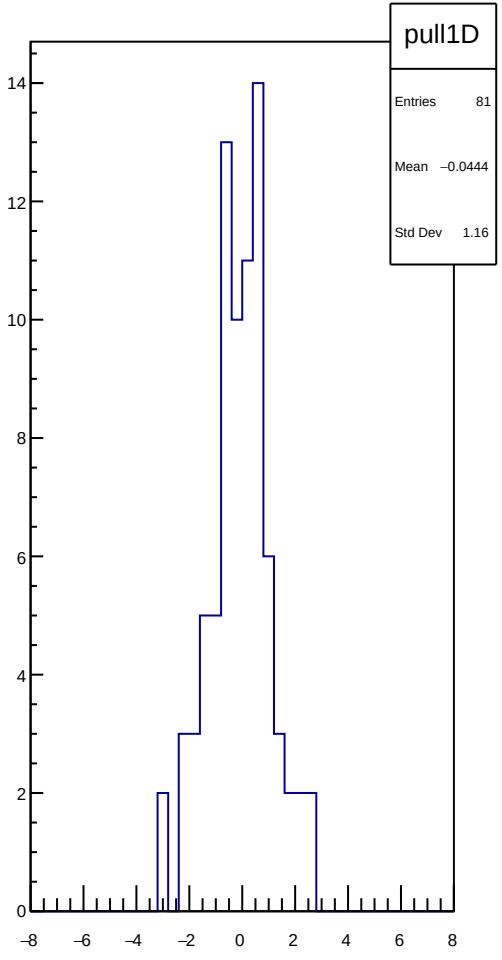

pull1D
Entries 81
Mean −0.0444
Std Dev 1.16

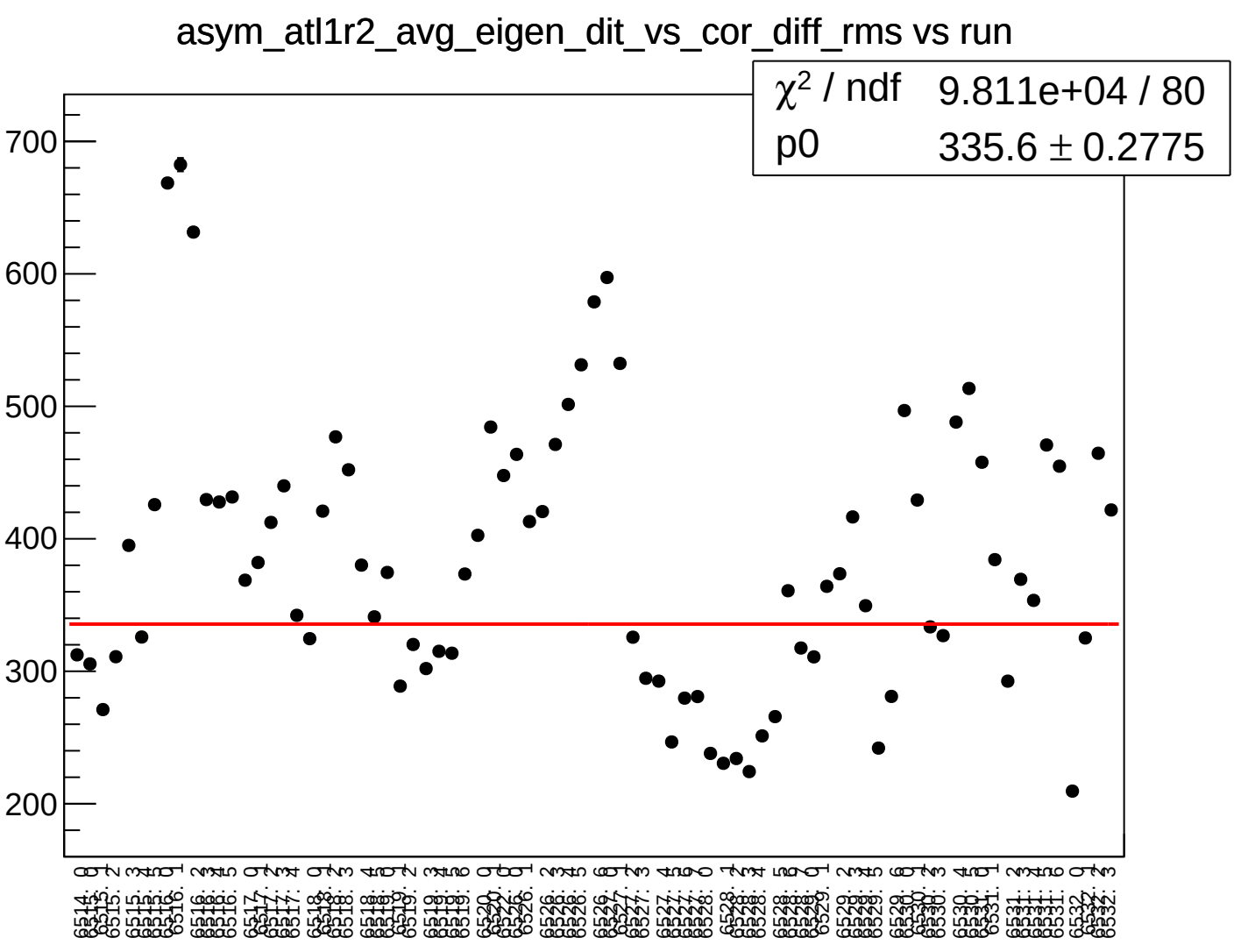

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.811e+04 / 80
p0 335.6 ± 0.2775
700
600
500
400
300
200

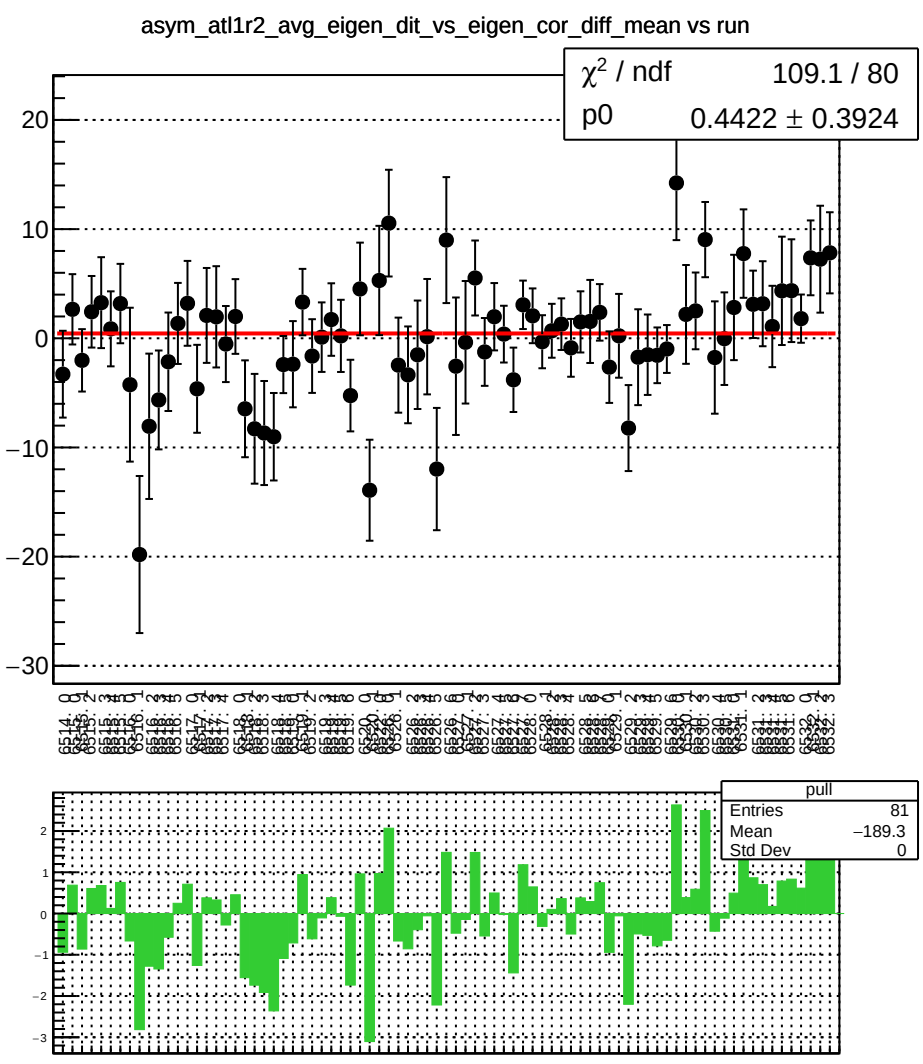

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.03 / 80
p0 6.509e−07 ± 2.047e−05
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 81
Mean −2150
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 81
Mean 0.0009628
Std Dev 0.9815
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

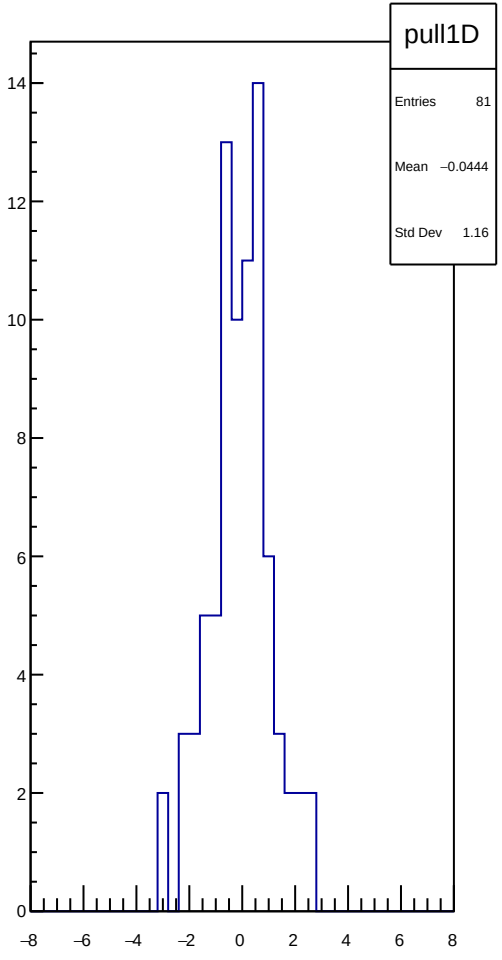

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.019e+04 / 80
p0 0.01785 ± 1.448e−05
0.022
0.02
0.018
0.016
0.014

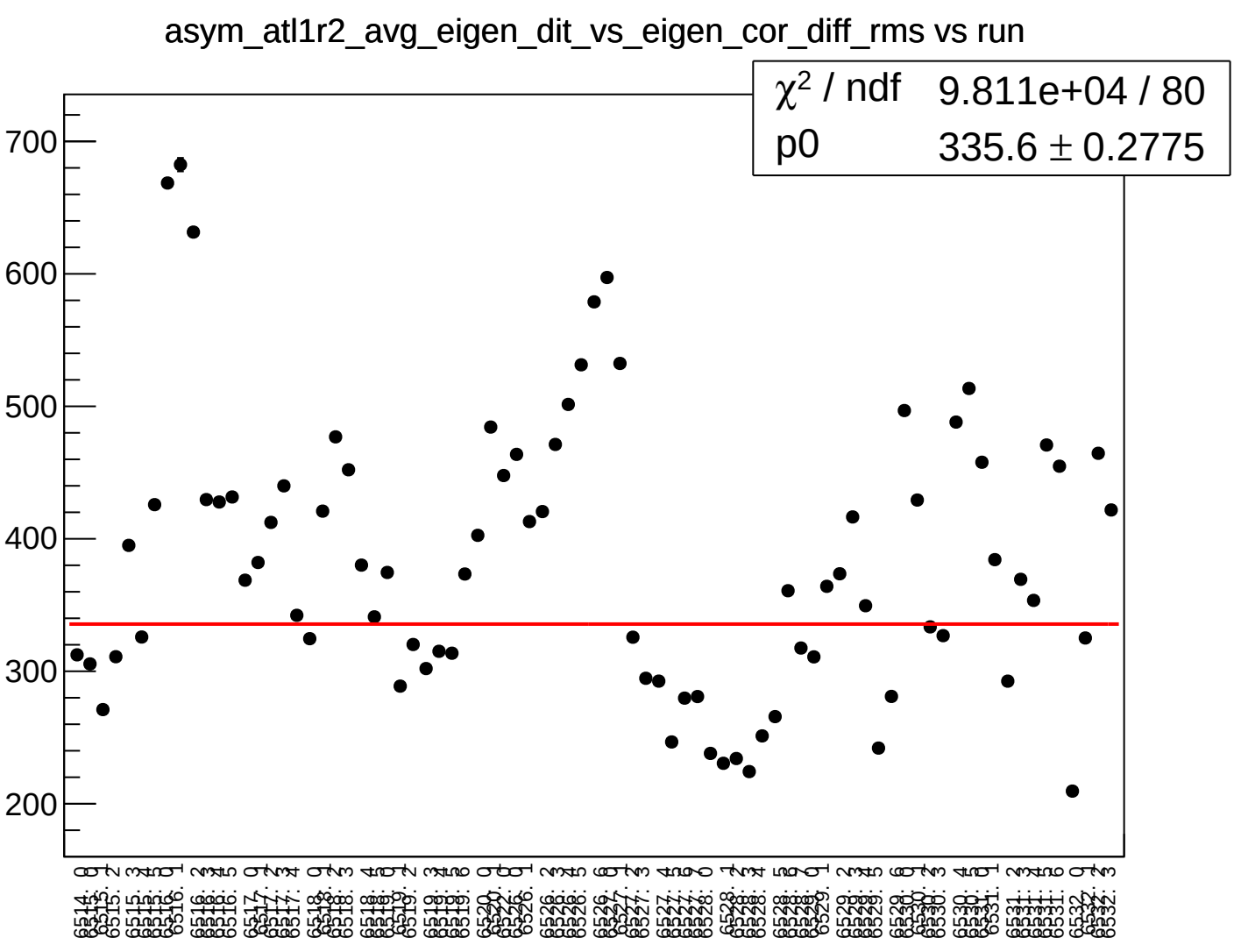

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 109.1 / 80
p0 0.4422 ± 0.3924
pull
Entries 81
Mean −189.3
Std Dev 0

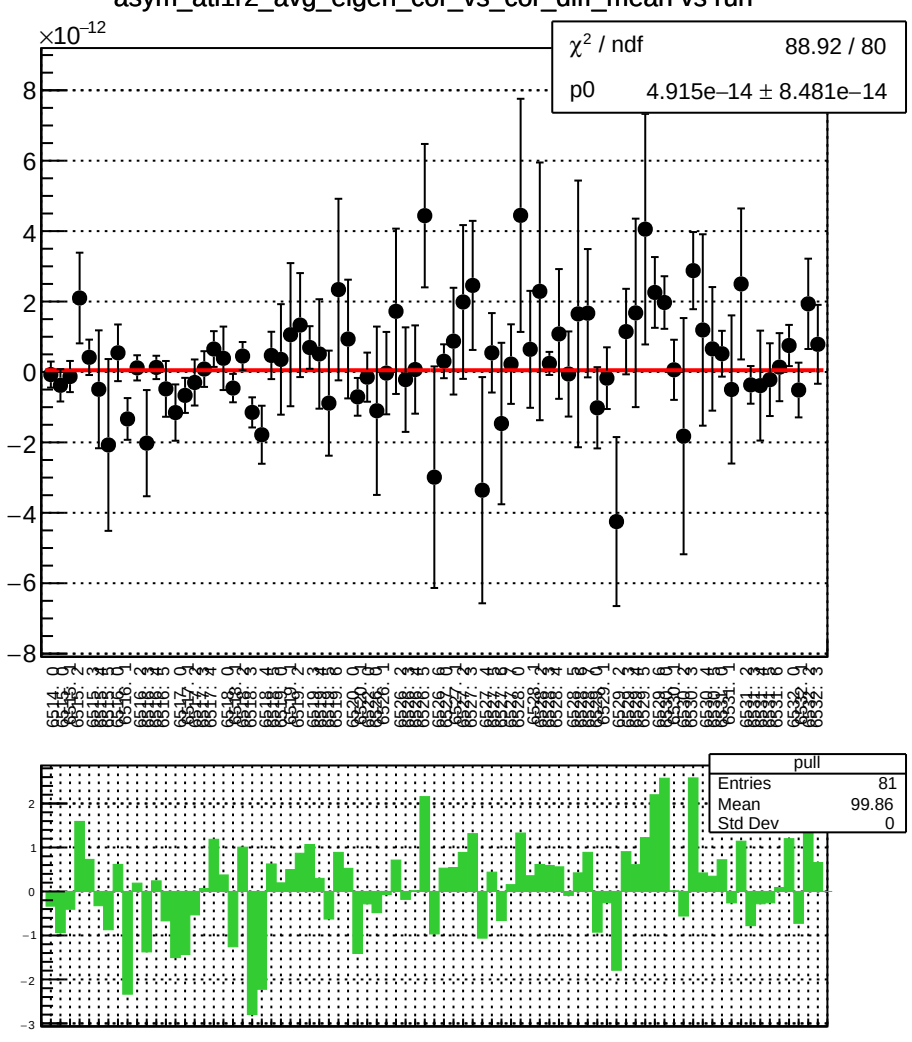

pull1D
Entries 81
Mean −0.0444
Std Dev 1.16

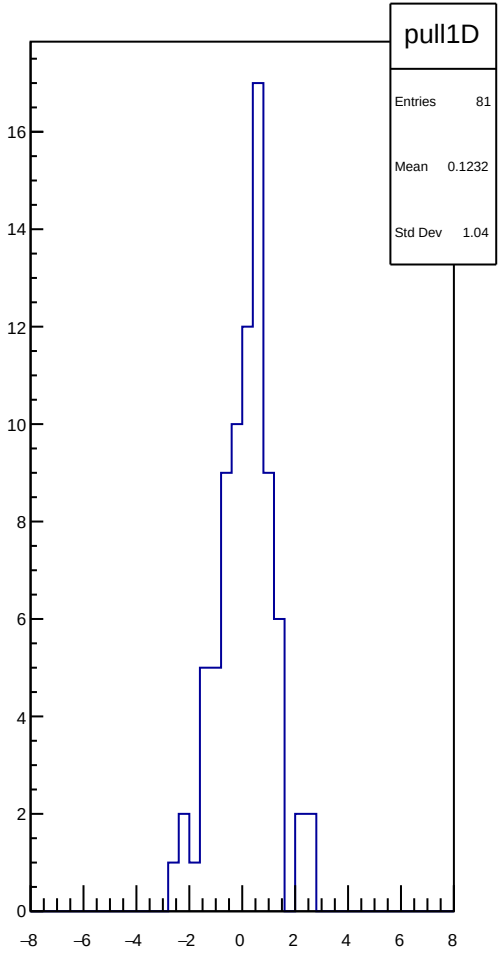

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.811e+04 / 80
p0 335.6 ± 0.2775
700
600
500
400
300
200

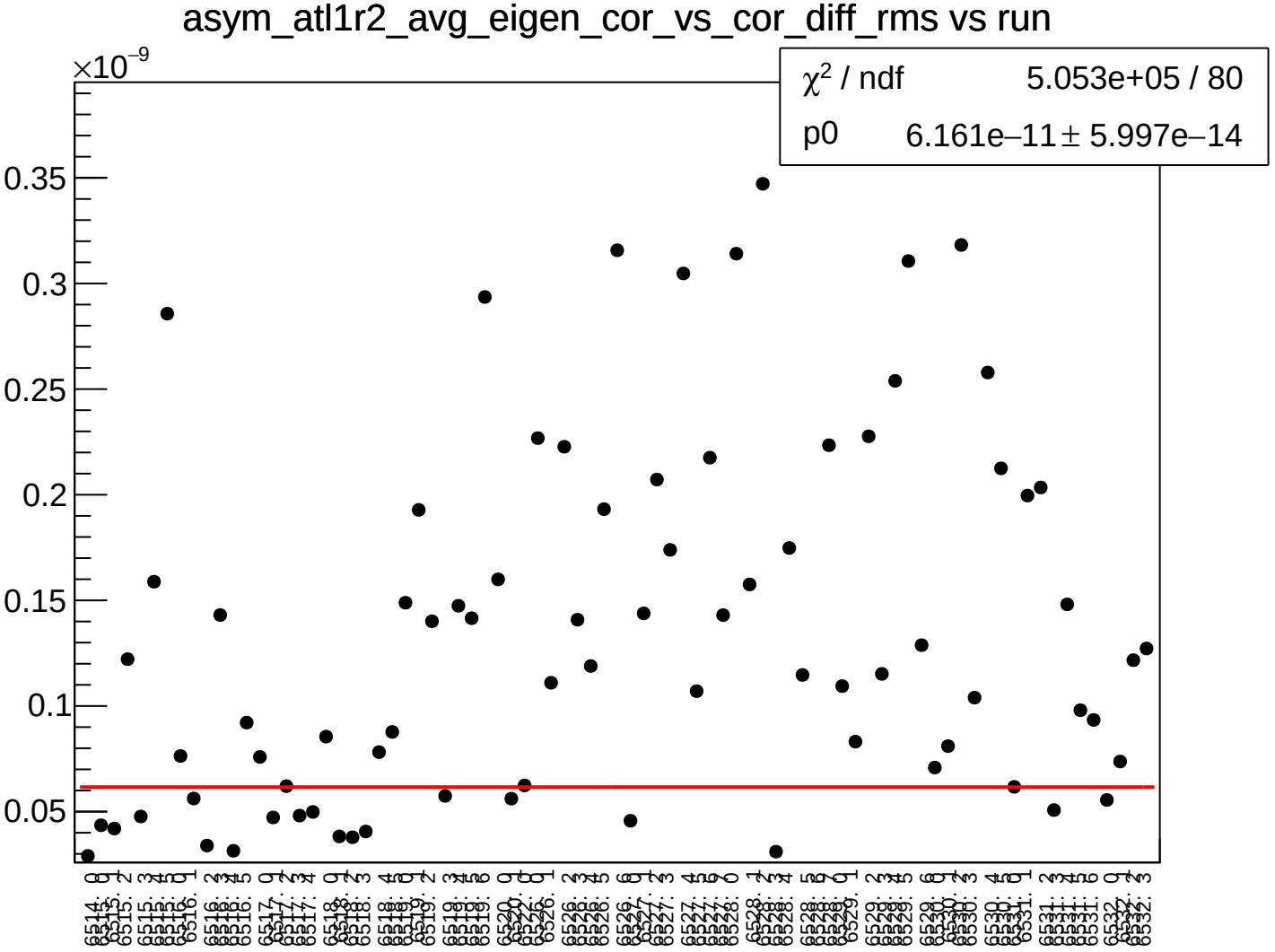

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.1 / 80
p0 0.4422 ± 0.3924
pull
Entries 81
Mean −189.3
Std Dev 0

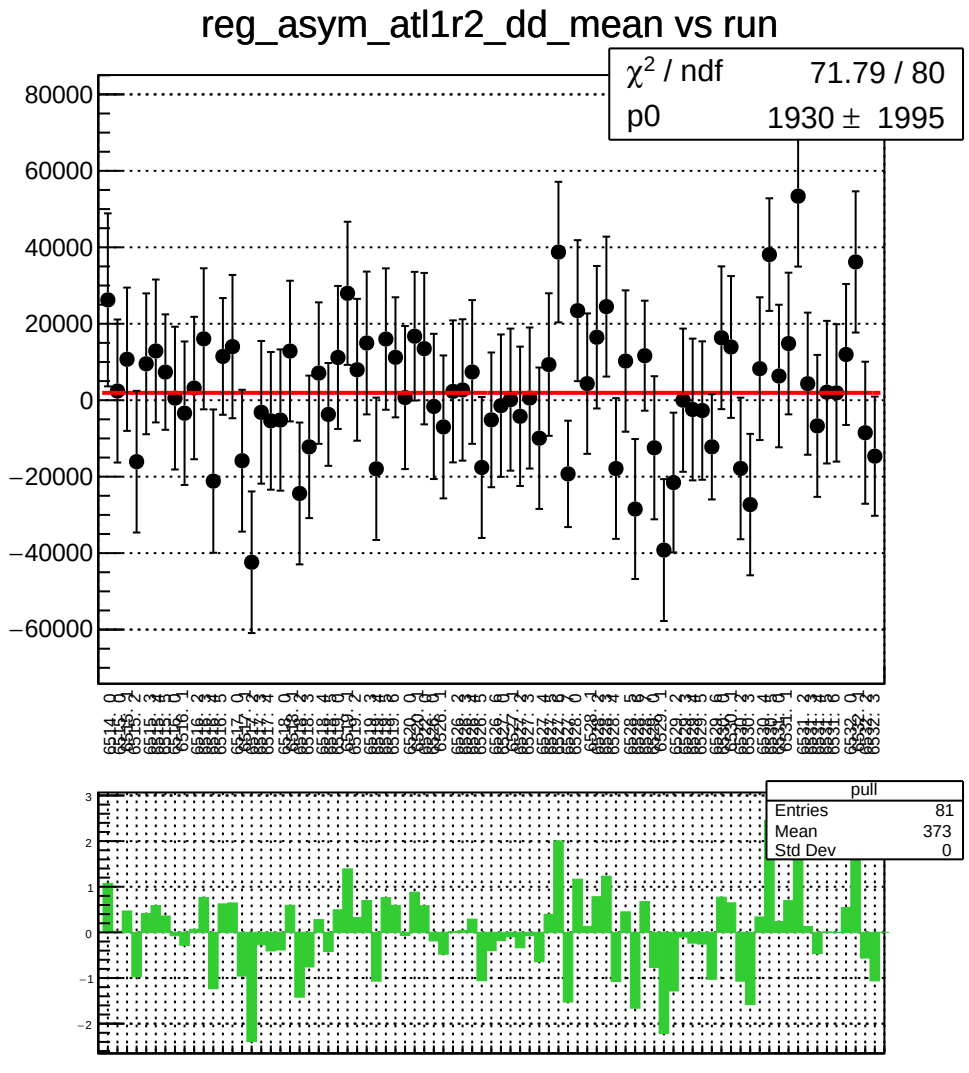

pull1D
Entries 81
Mean −0.0444
Std Dev 1.16

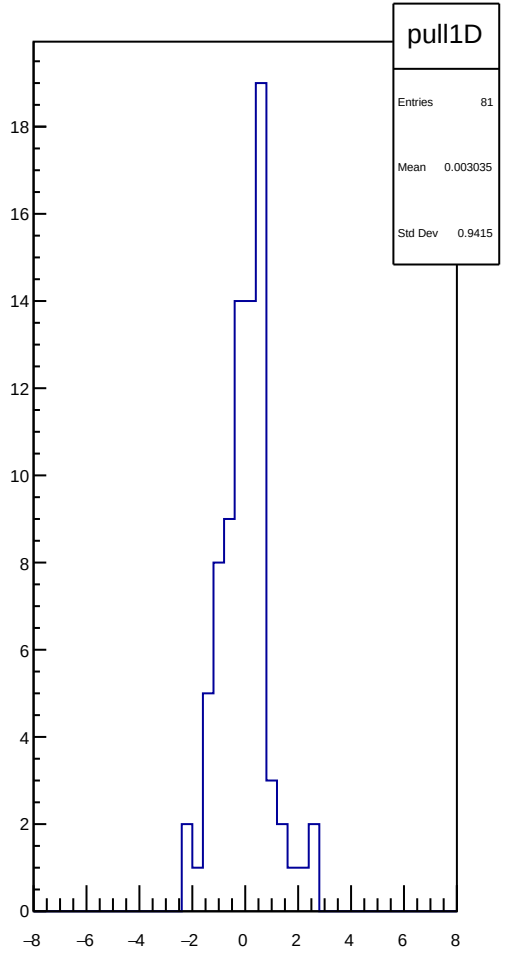

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.811e+04 / 80
p0 335.6 ± 0.2775
700
600
500
400
300
200

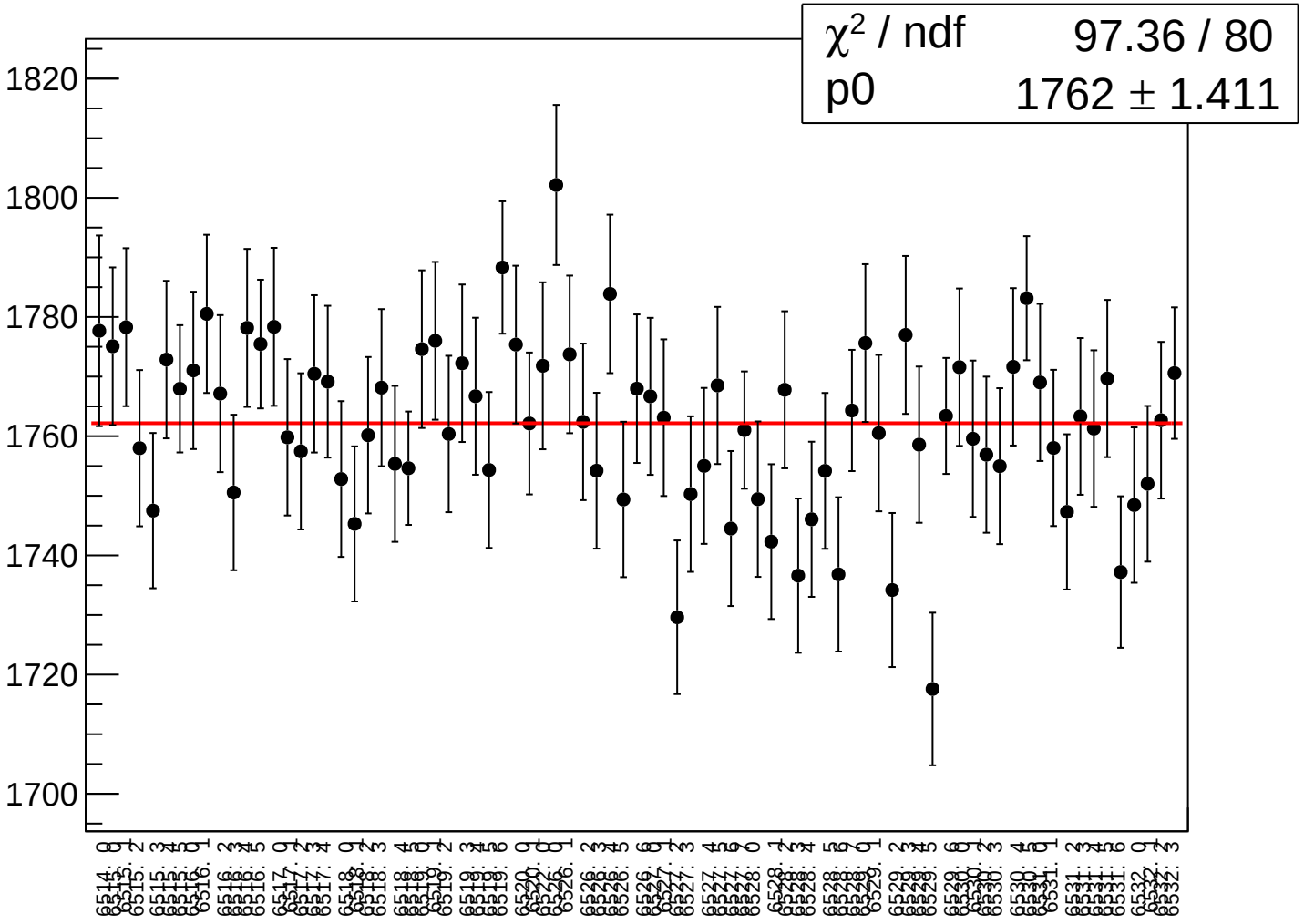

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.92 / 80
p0 4.915e−14 ± 8.481e−14
pull
Entries 81
Mean 99.86
Std Dev 0

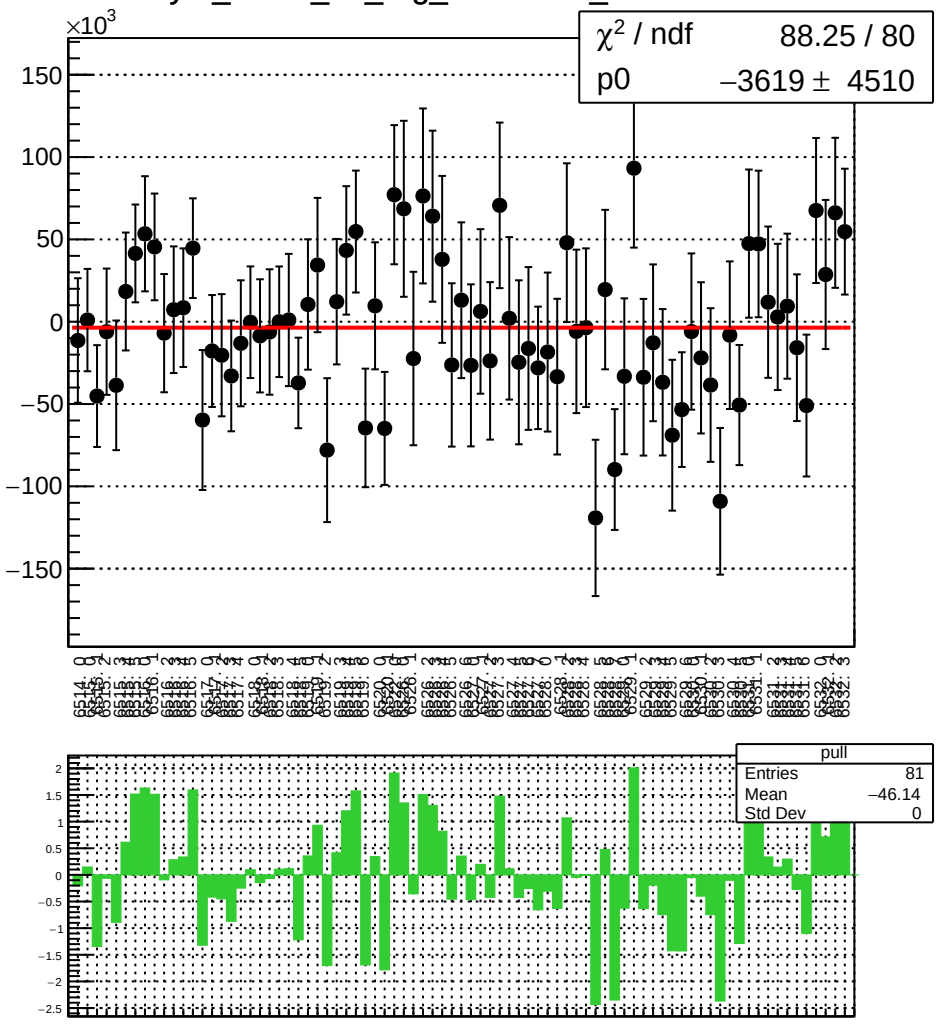

pull1D
Entries 81
Mean 0.1232
Std Dev 1.04

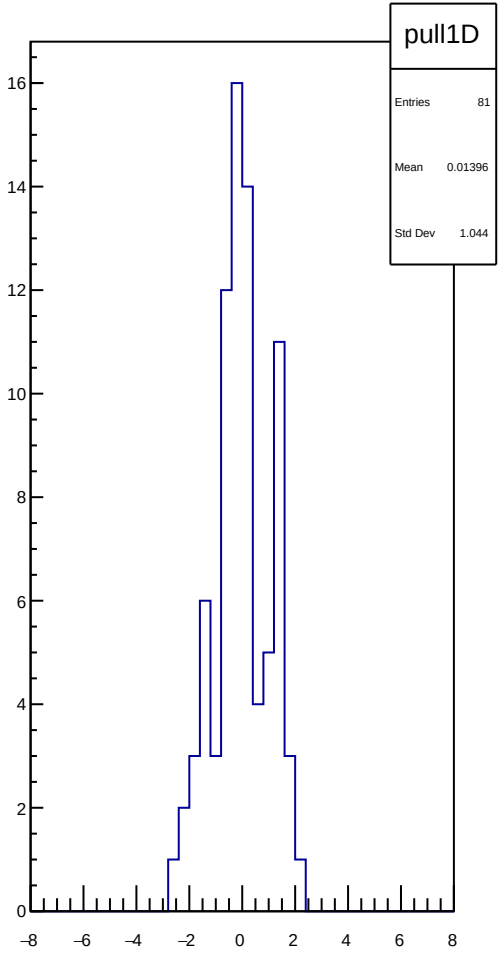

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.053e+05 / 80
p0 6.161e−11 ± 5.997e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

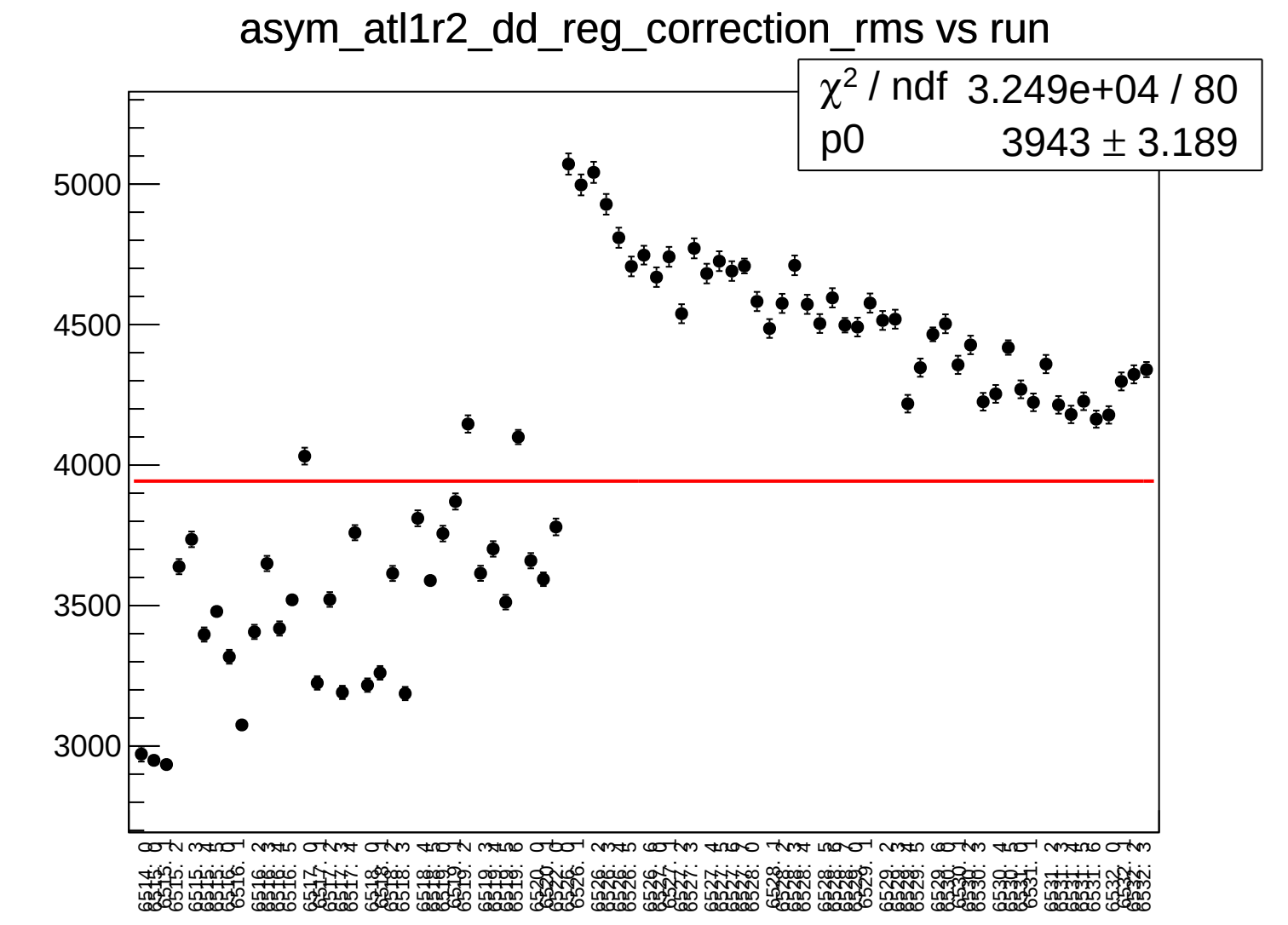

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 71.79 / 80
p0 1930 ± 1995
pull
Entries 81
Mean 373
Std Dev 0

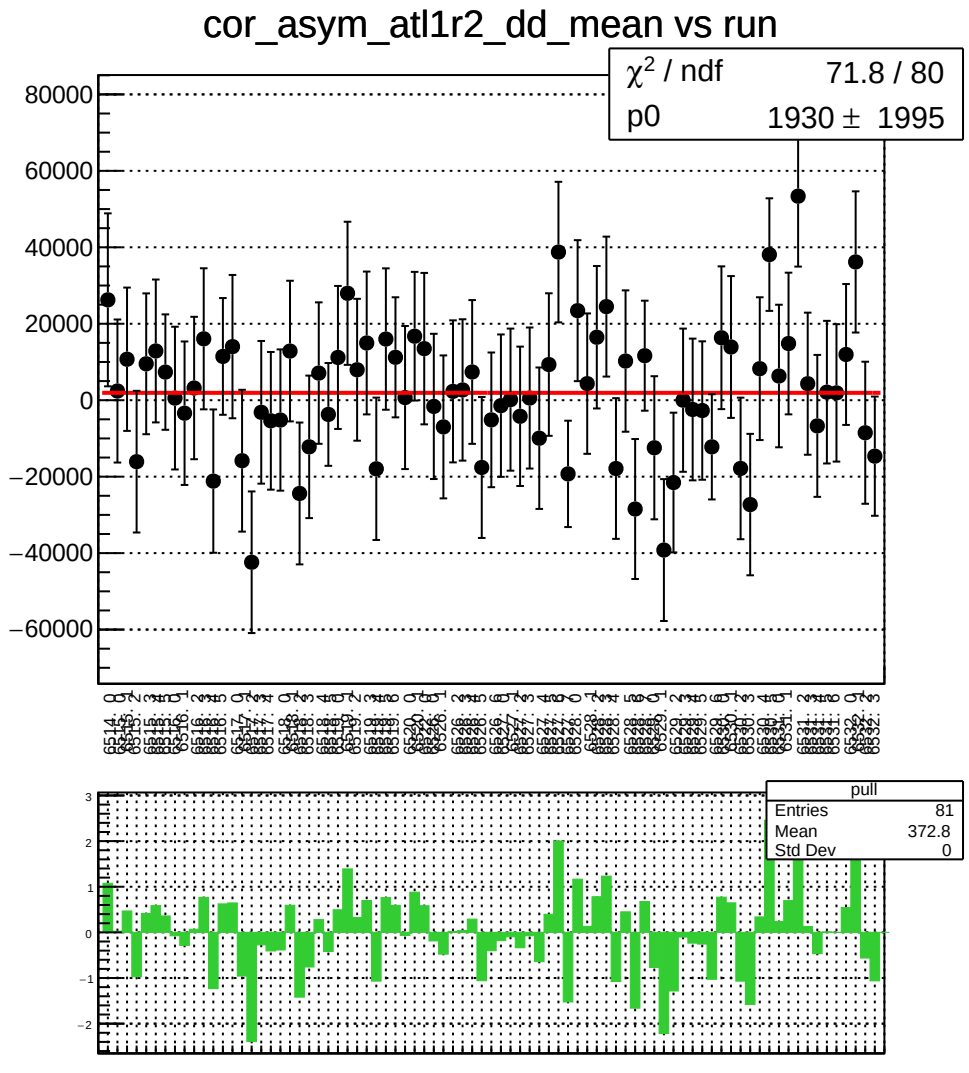

pull1D
Entries 81
Mean 0.003035
Std Dev 0.9415

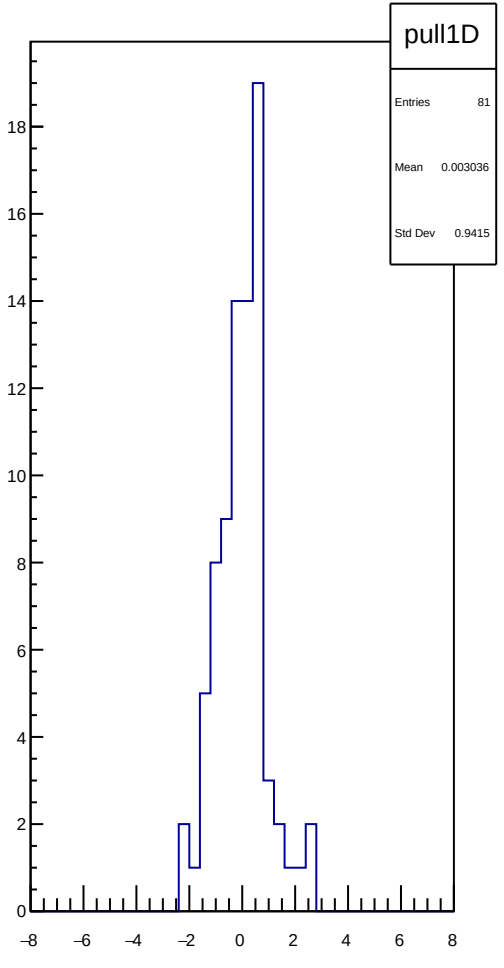

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 97.36 / 80
p0 1762 ± 1.411
1820
1800
1780
1760
1740
1720
1700

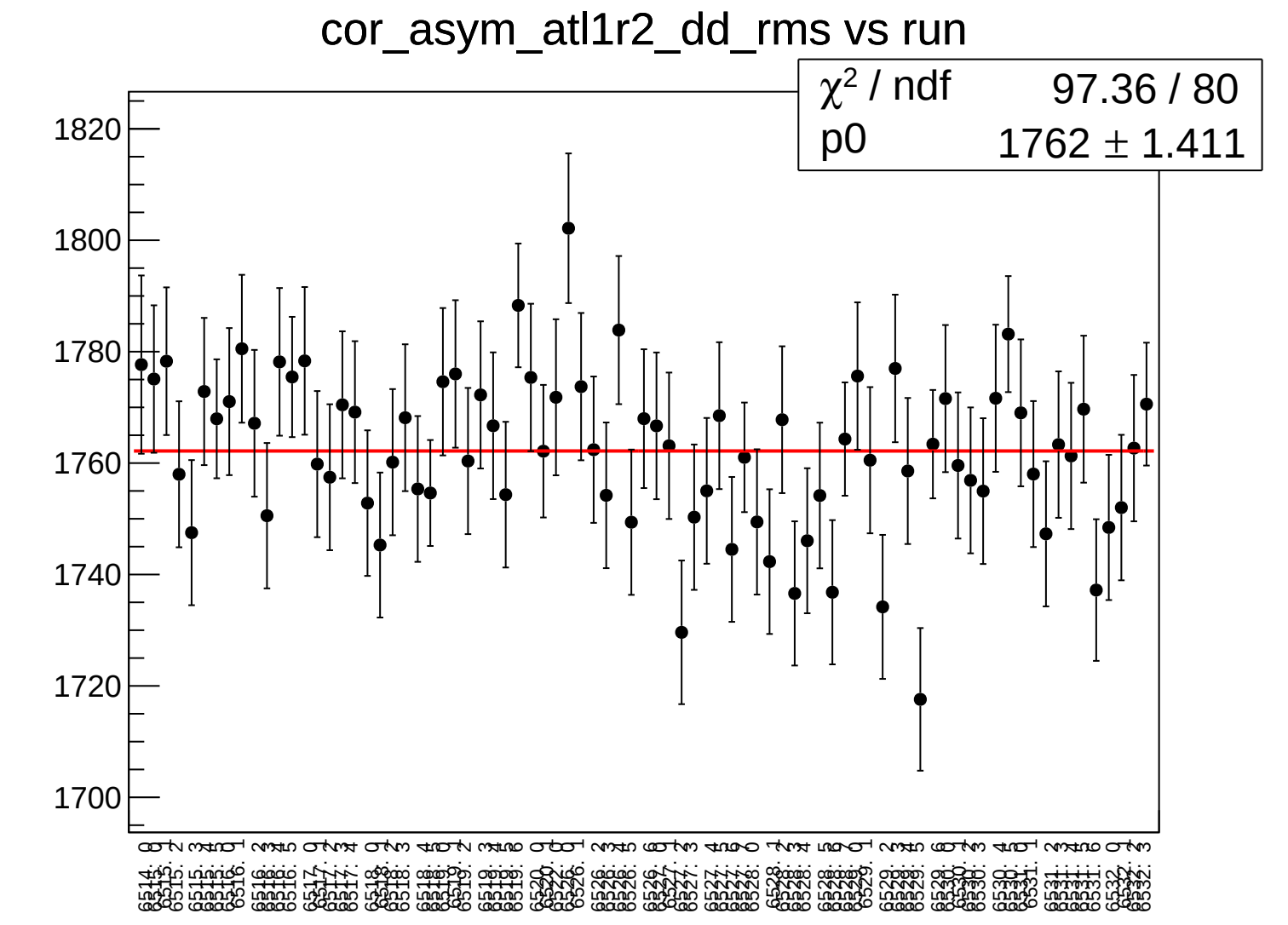

asym_atl1r2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 88.25 / 80
p0 −3619 ± 4510
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean −46.14
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

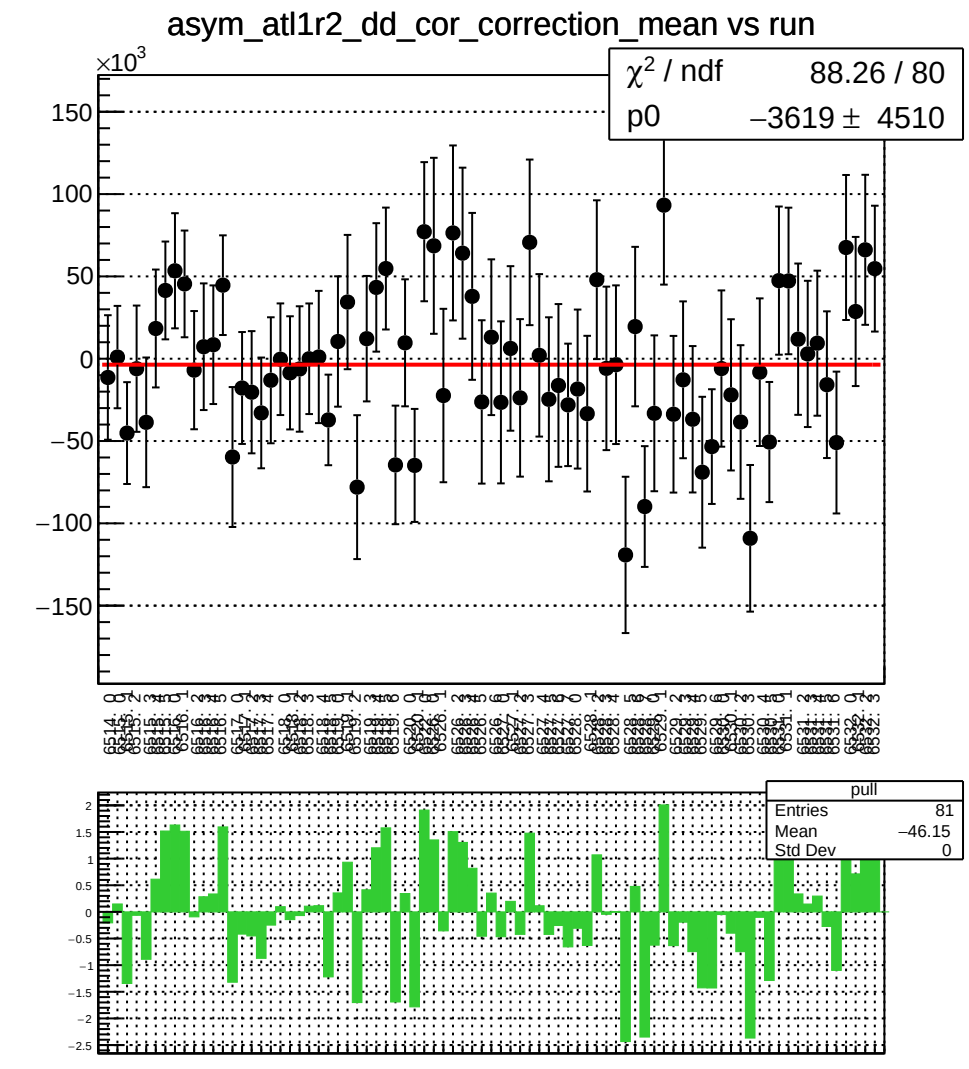

pull1D
Entries 81
Mean 0.01396
Std Dev 1.044
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

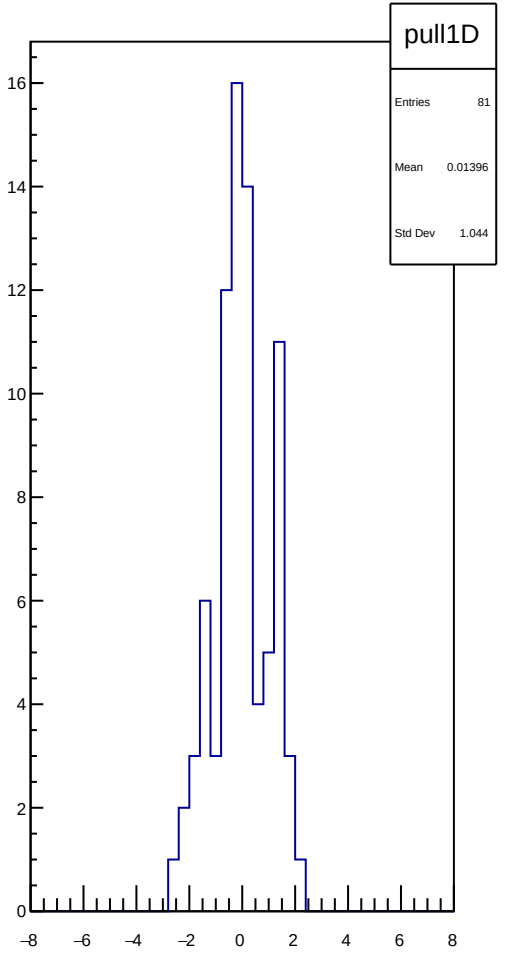

asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 3.249e+04 / 80
p0 3943 ± 3.189
5000
4500
4000
3500
3000

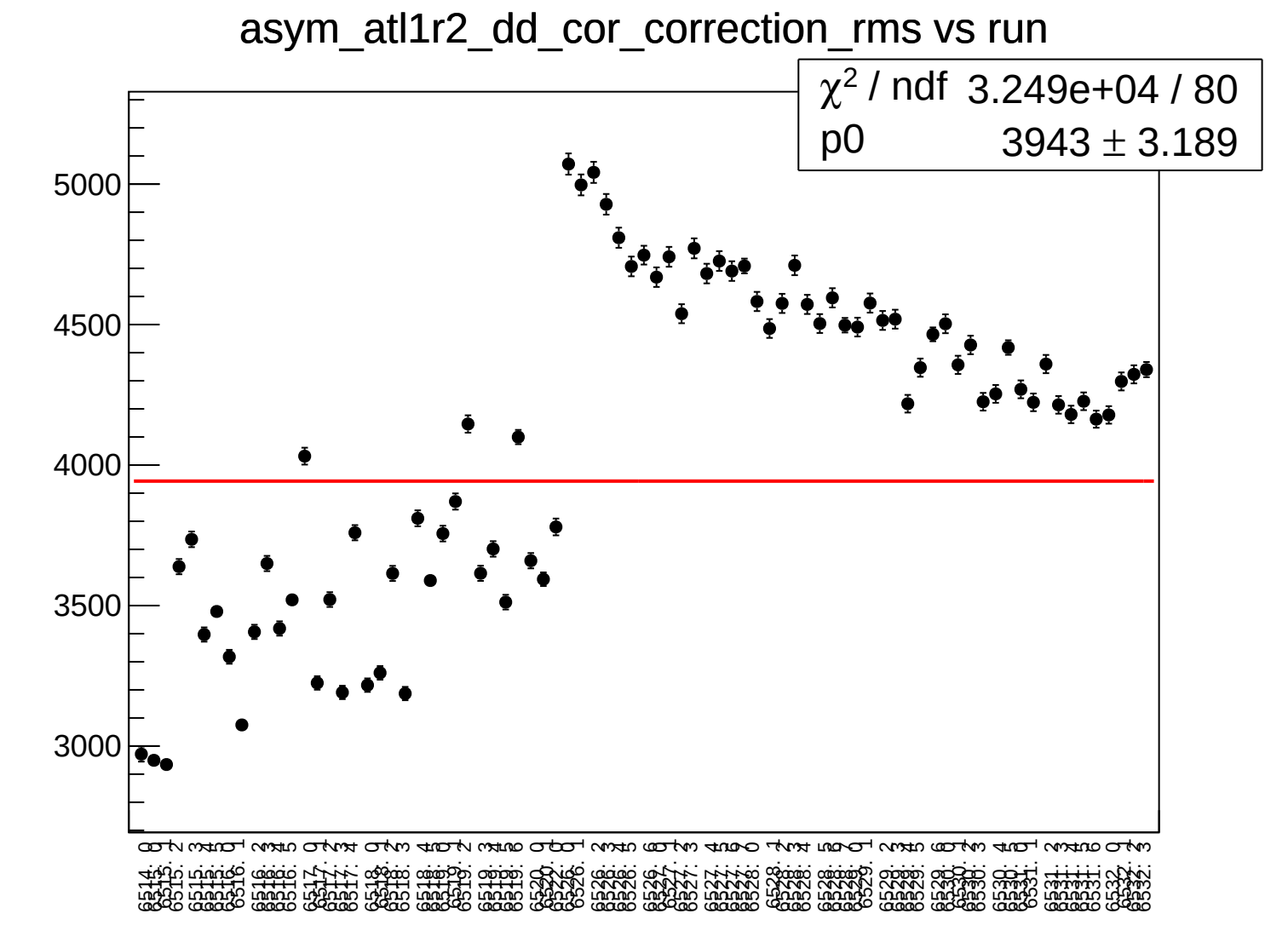

cor_asym_atl1r2_dd_mean vs run
χ² / ndf 71.8 / 80
p0 1930 ± 1995
pull
Entries 81
Mean 372.8
Std Dev 0

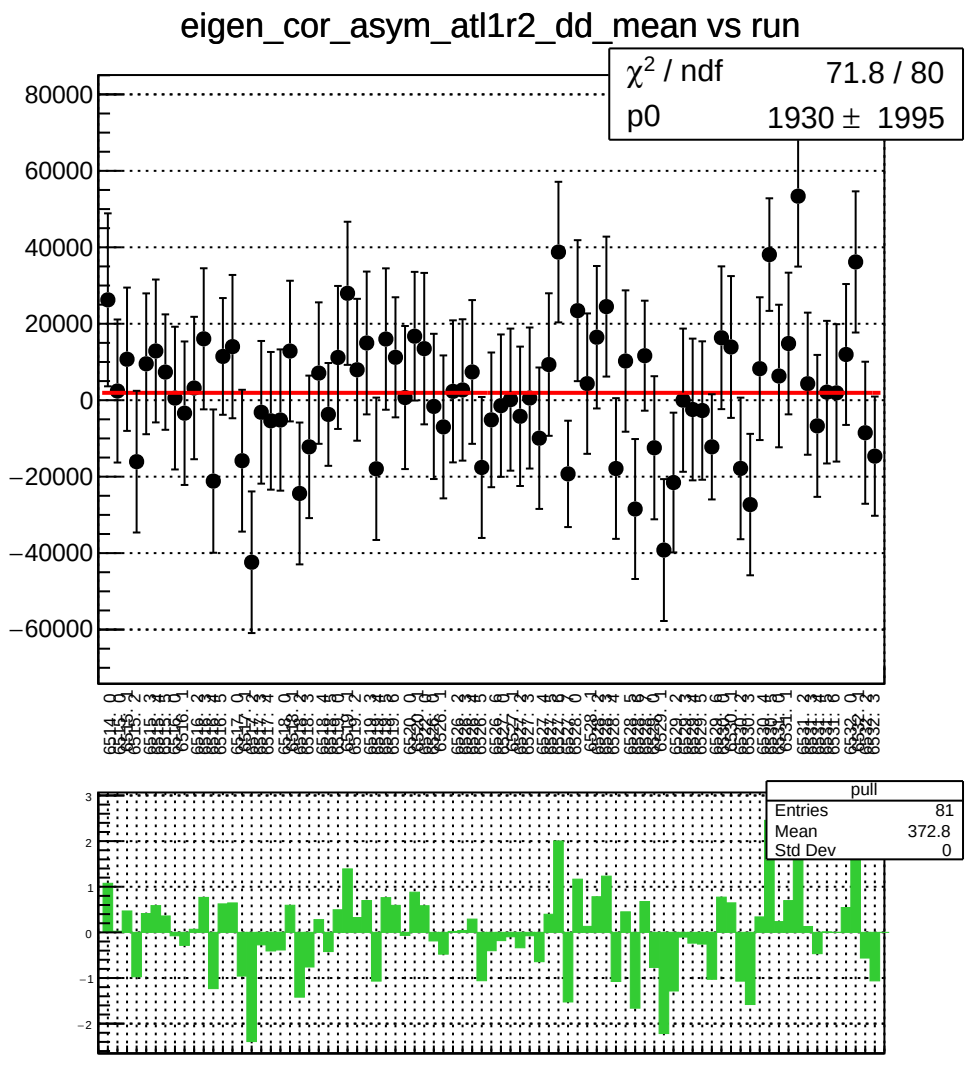

pull1D
Entries 81
Mean 0.003036
Std Dev 0.9415

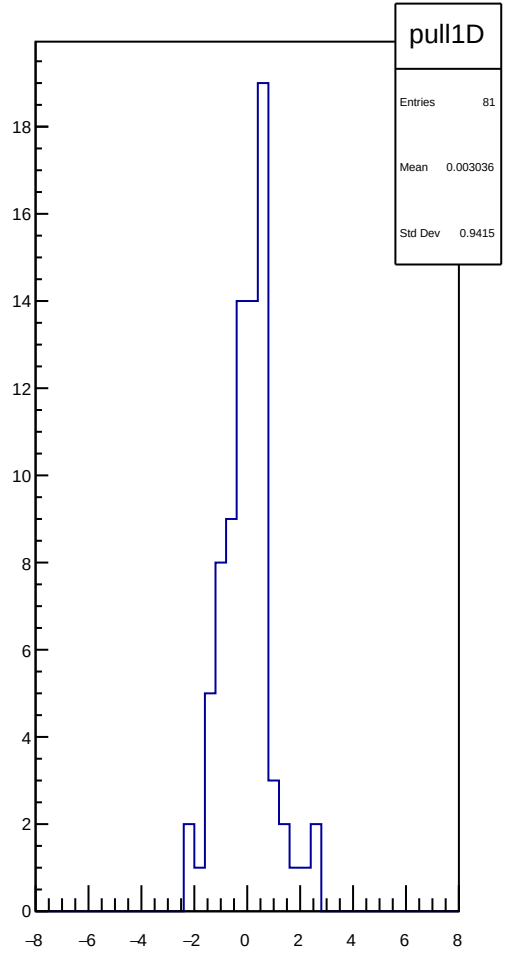

cor_asym_atl1r2_dd_rms vs run
χ² / ndf 97.36 / 80
p0 1762 ± 1.411
1820
1800
1780
1760
1740
1720
1700

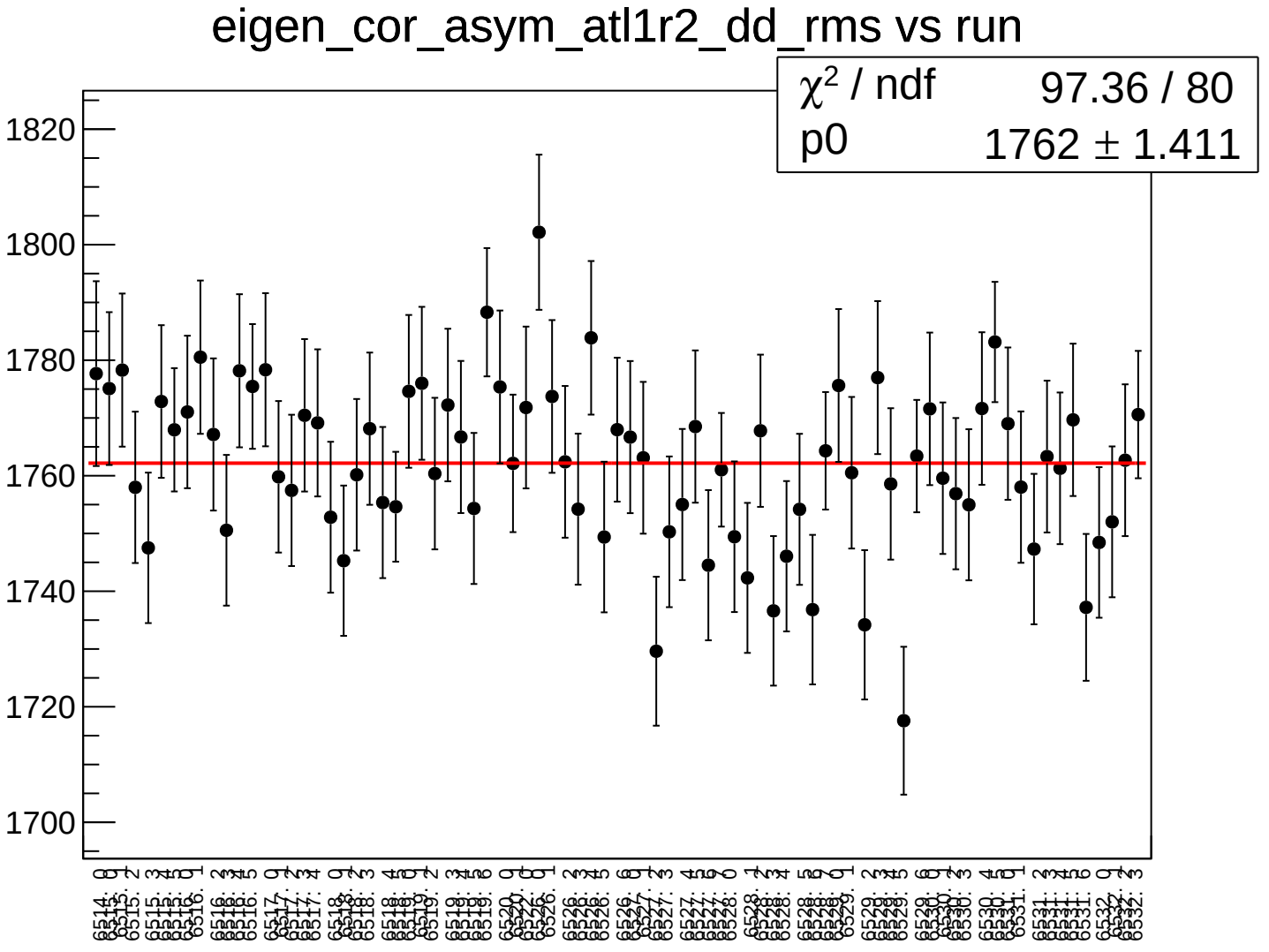

asym_atl1r2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 88.26 / 80
p0 −3619 ± 4510
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean −46.15
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

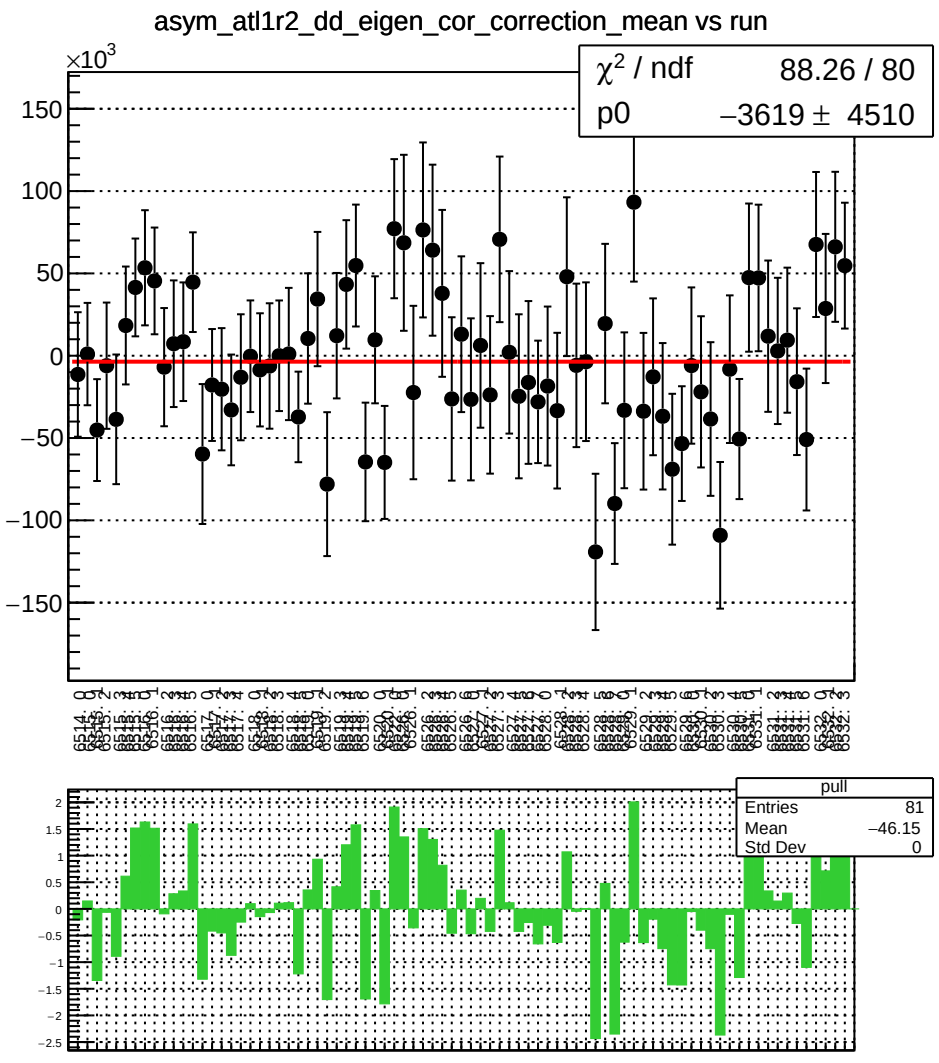

pull1D
Entries 81
Mean 0.01396
Std Dev 1.044
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

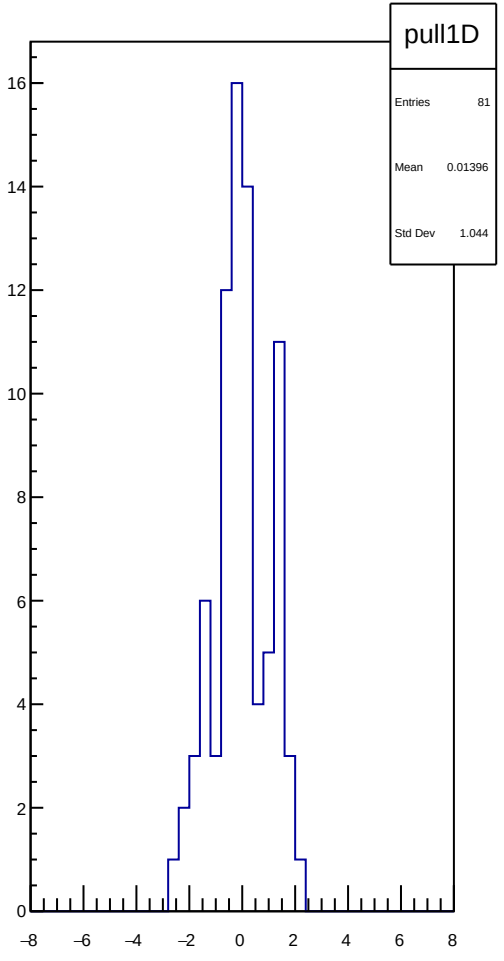

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 3.249e+04 / 80
p0 3943 ± 3.189
5000
4500
4000
3500
3000

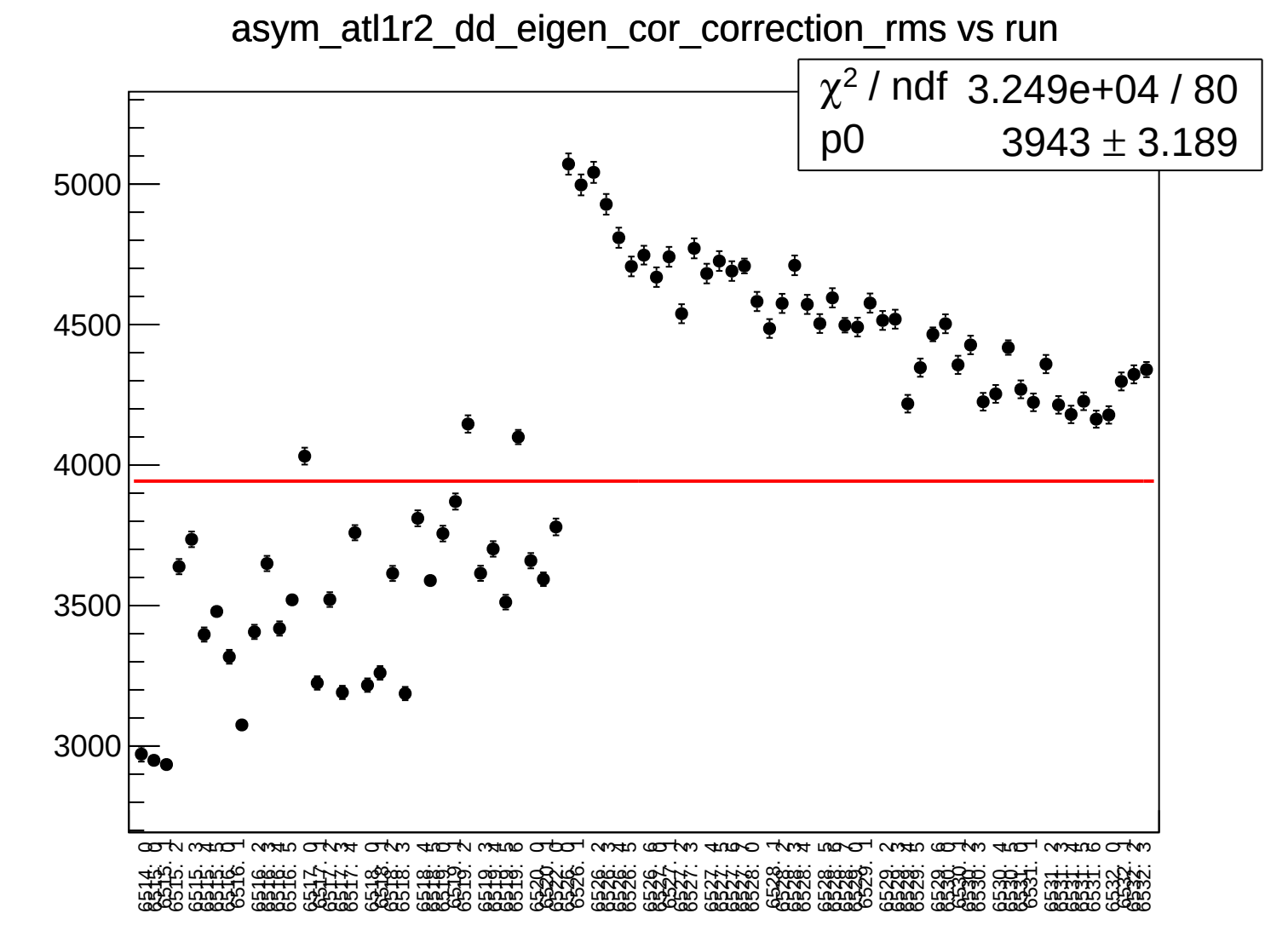

eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 71.8 / 80
p0 1930 ± 1995
pull
Entries 81
Mean 372.8
Std Dev 0

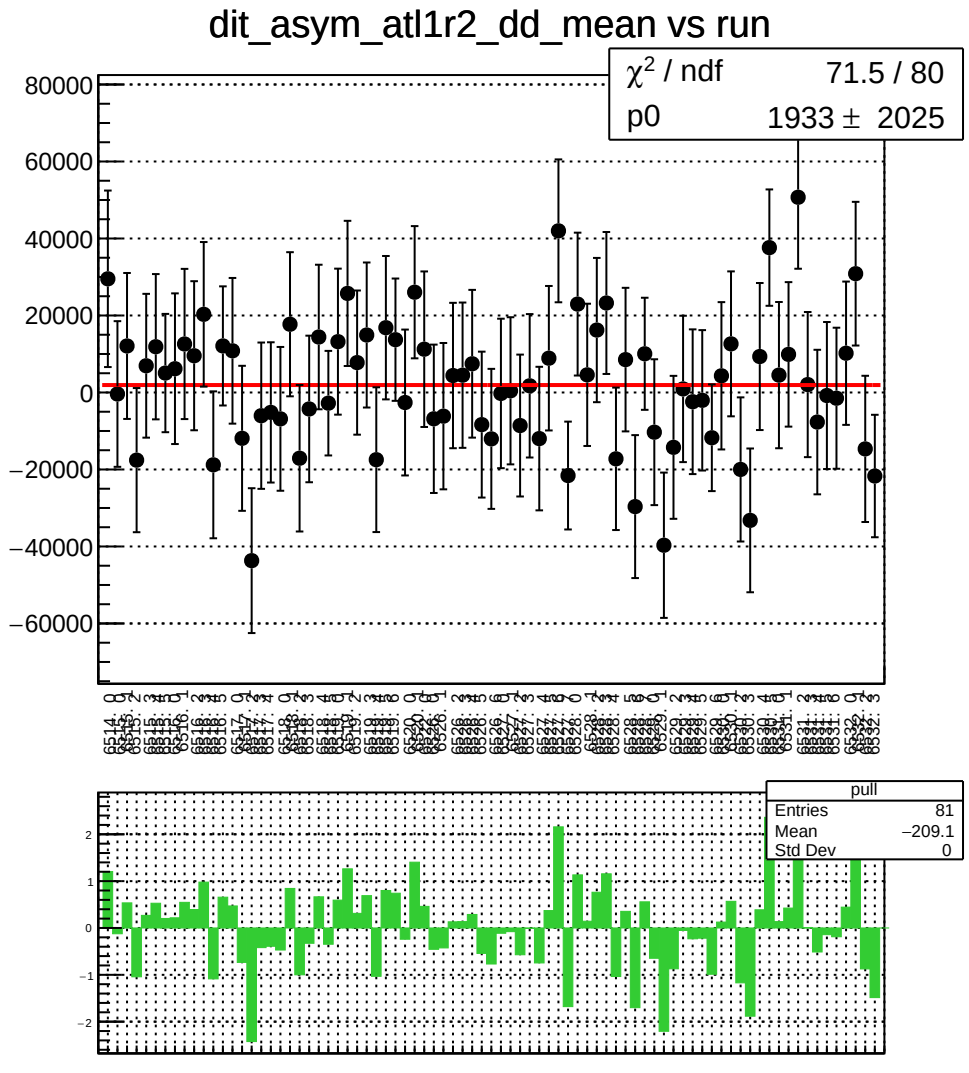

pull1D
Entries 81
Mean 0.003036
Std Dev 0.9415

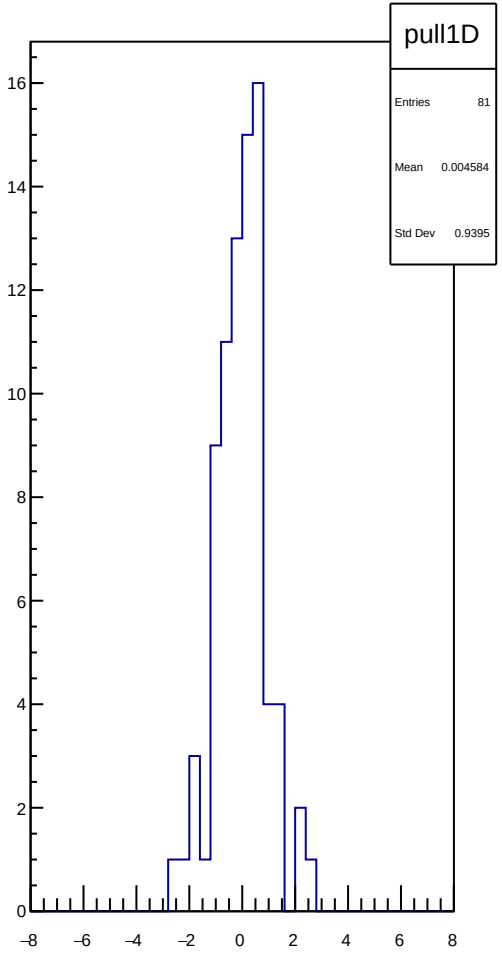

eigen_cor_asym_atl1r2_dd_rms vs run
χ² / ndf 97.36 / 80
p0 1762 ± 1.411
1820
1800
1780
1760
1740
1720
1700

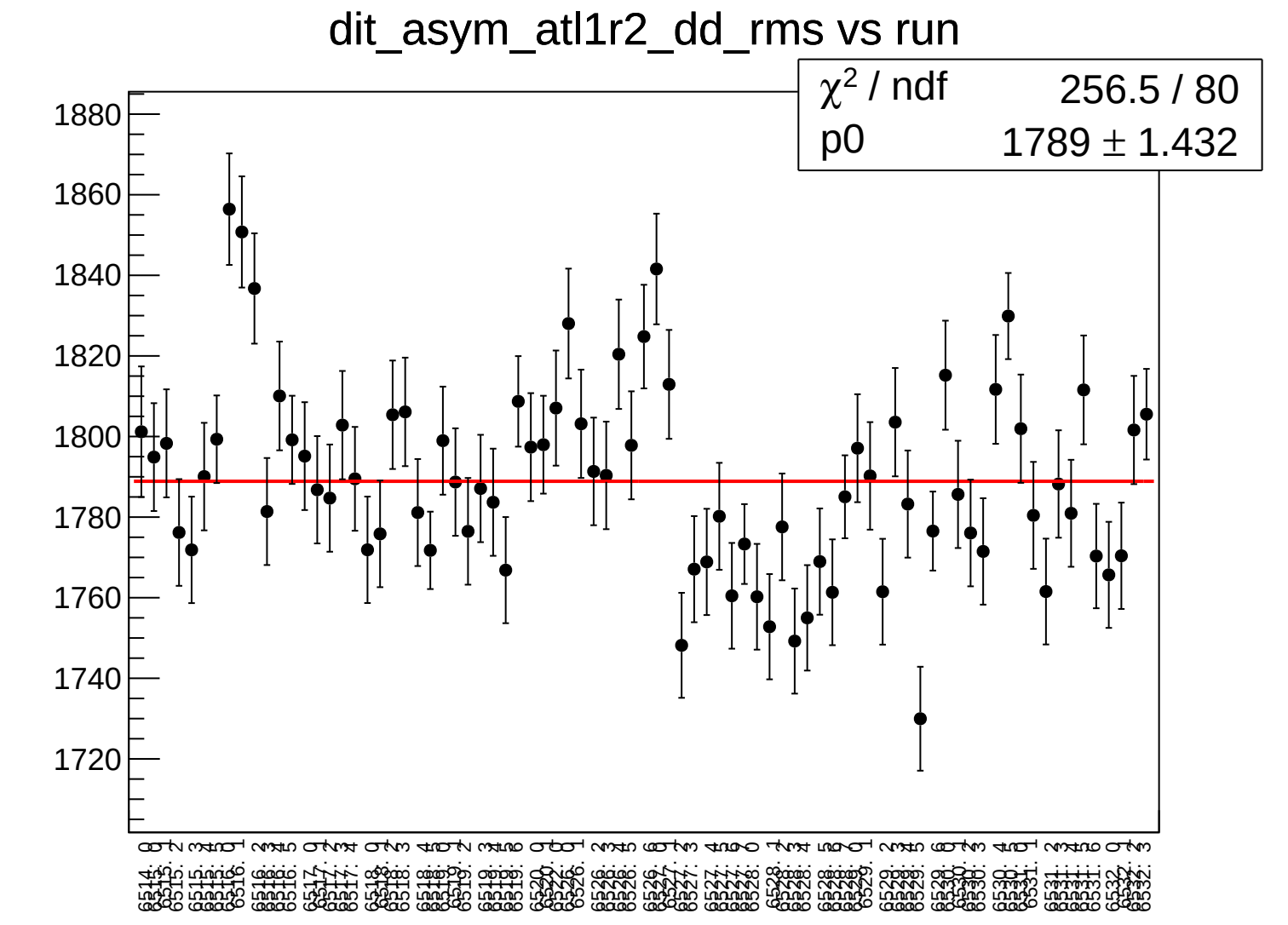

asym_atl1r2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 88.26 / 80
p0 −3619 ± 4510
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean −46.15
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

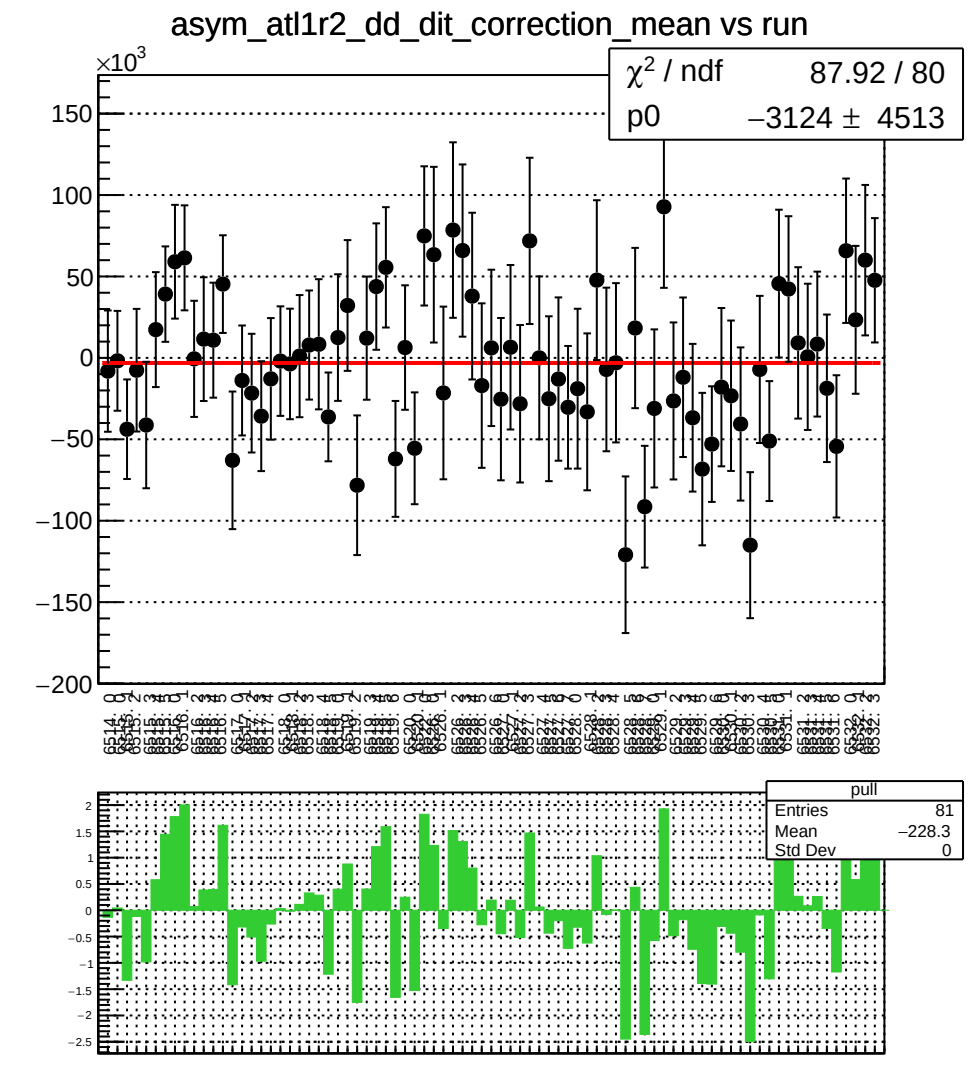

pull1D
Entries 81
Mean 0.01396
Std Dev 1.044
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

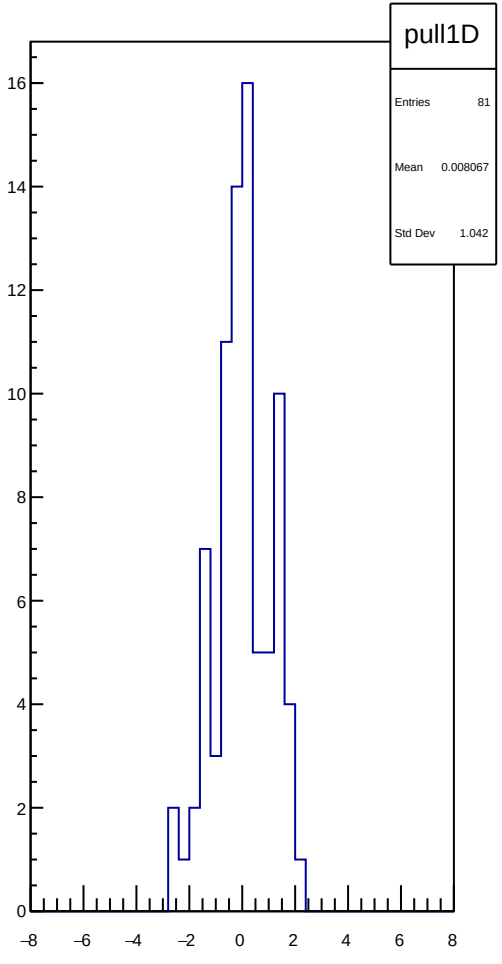

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.249e+04 / 80
p0 3943 ± 3.189
5000
4500
4000
3500
3000

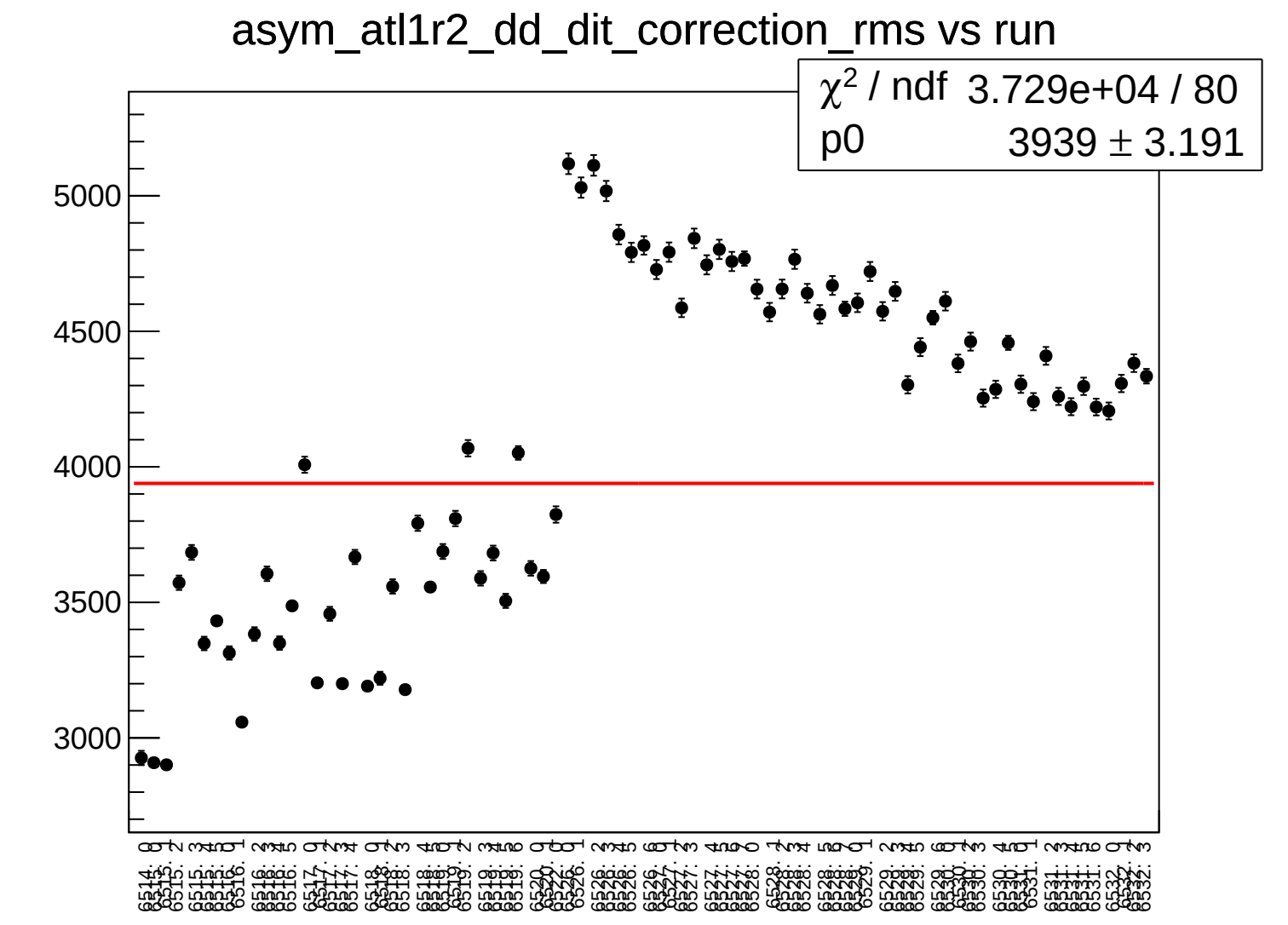

dit_asym_atl1r2_dd_mean vs run
χ² / ndf 71.5 / 80
p0 1933 ± 2025
pull
Entries 81
Mean −209.1
Std Dev 0

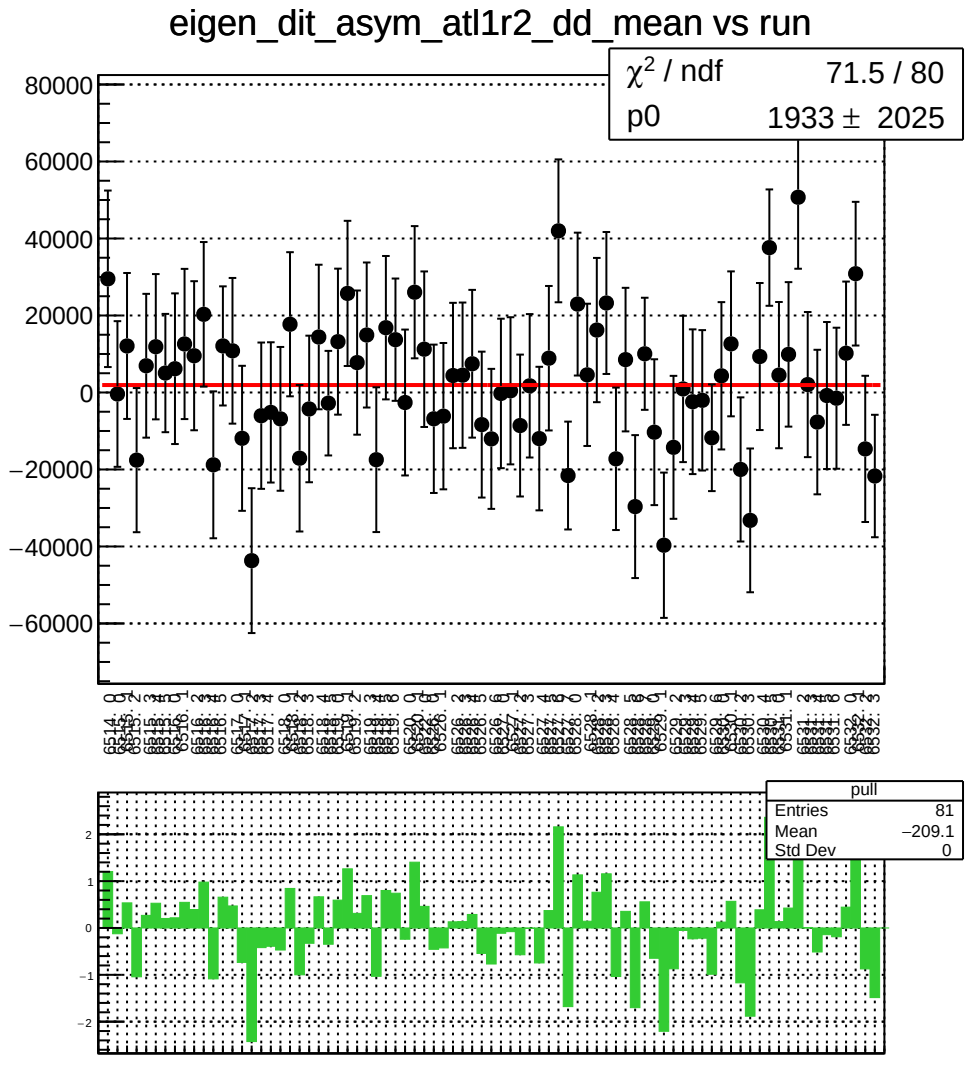

pull1D
Entries 81
Mean 0.004584
Std Dev 0.9395

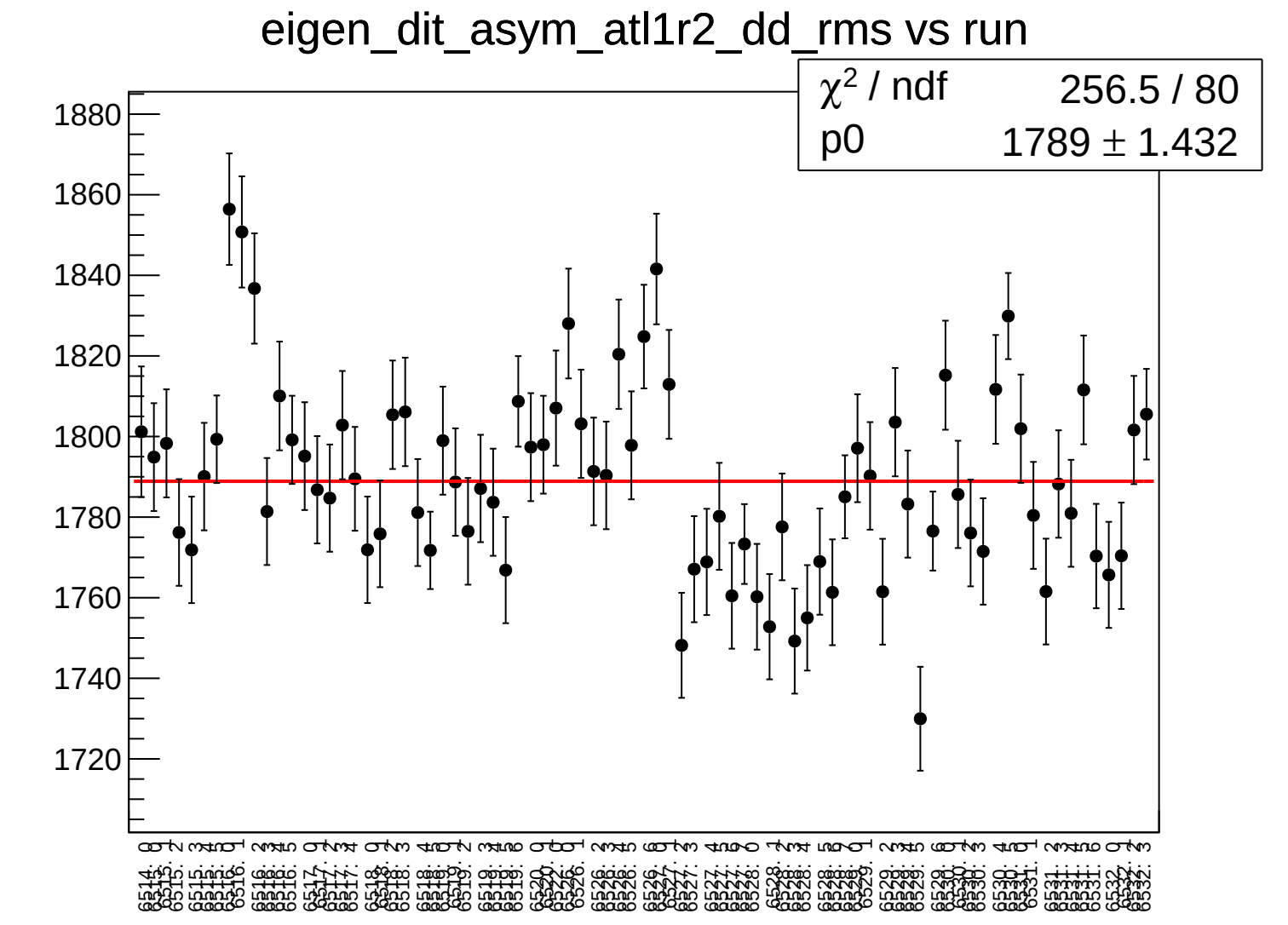

dit_asym_atl1r2_dd_rms vs run
χ² / ndf 256.5 / 80
p0 1789 ± 1.432
1880
1860
1840
1820
1800
1780
1760
1740
1720

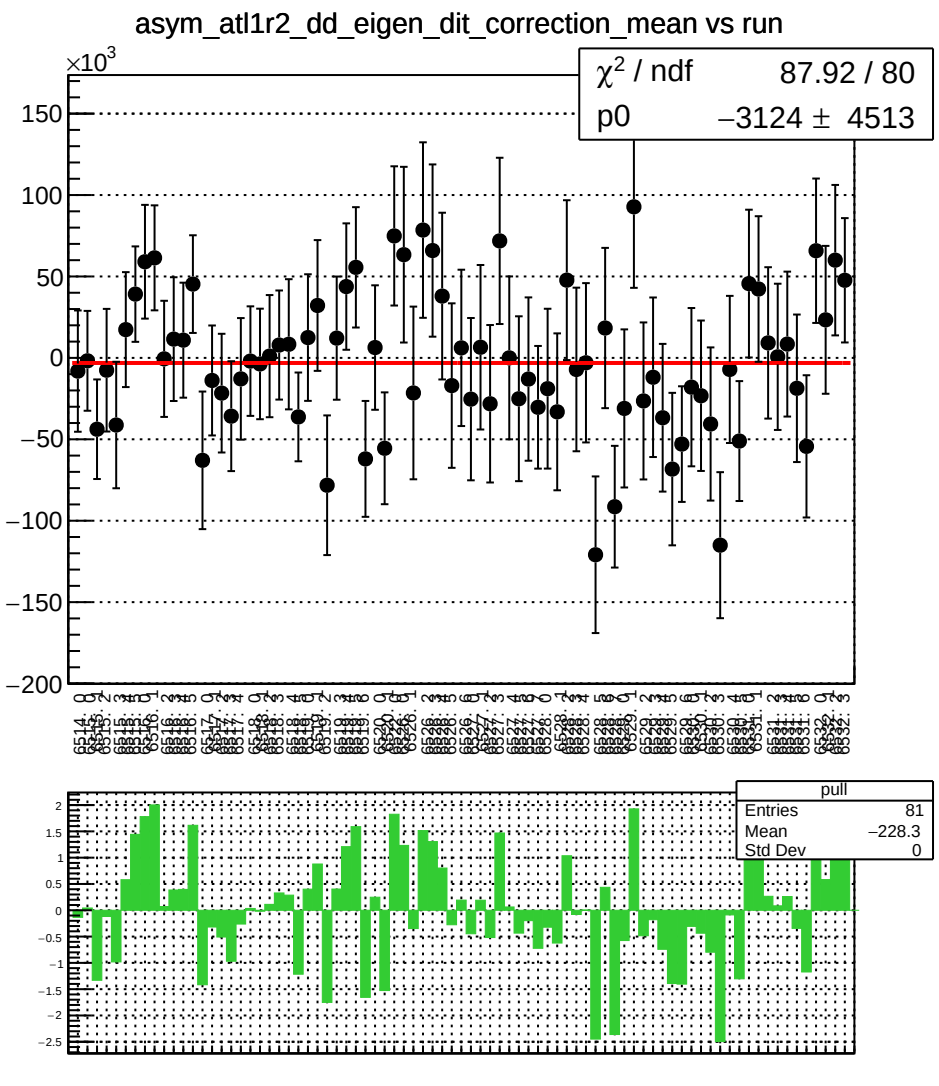

asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 87.92 / 80
p0 −3124 ± 4513
pull
Entries 81
Mean −228.3
Std Dev 0

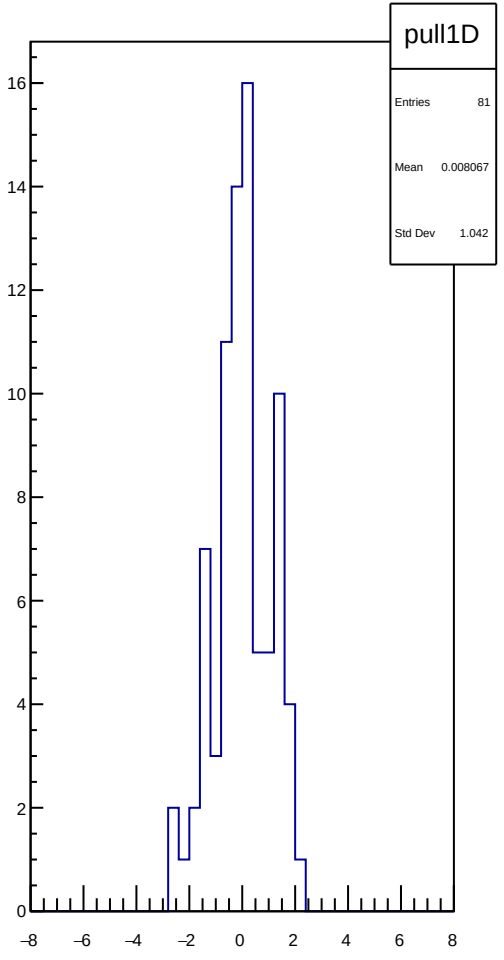

pull1D
Entries 81
Mean 0.008067
Std Dev 1.042

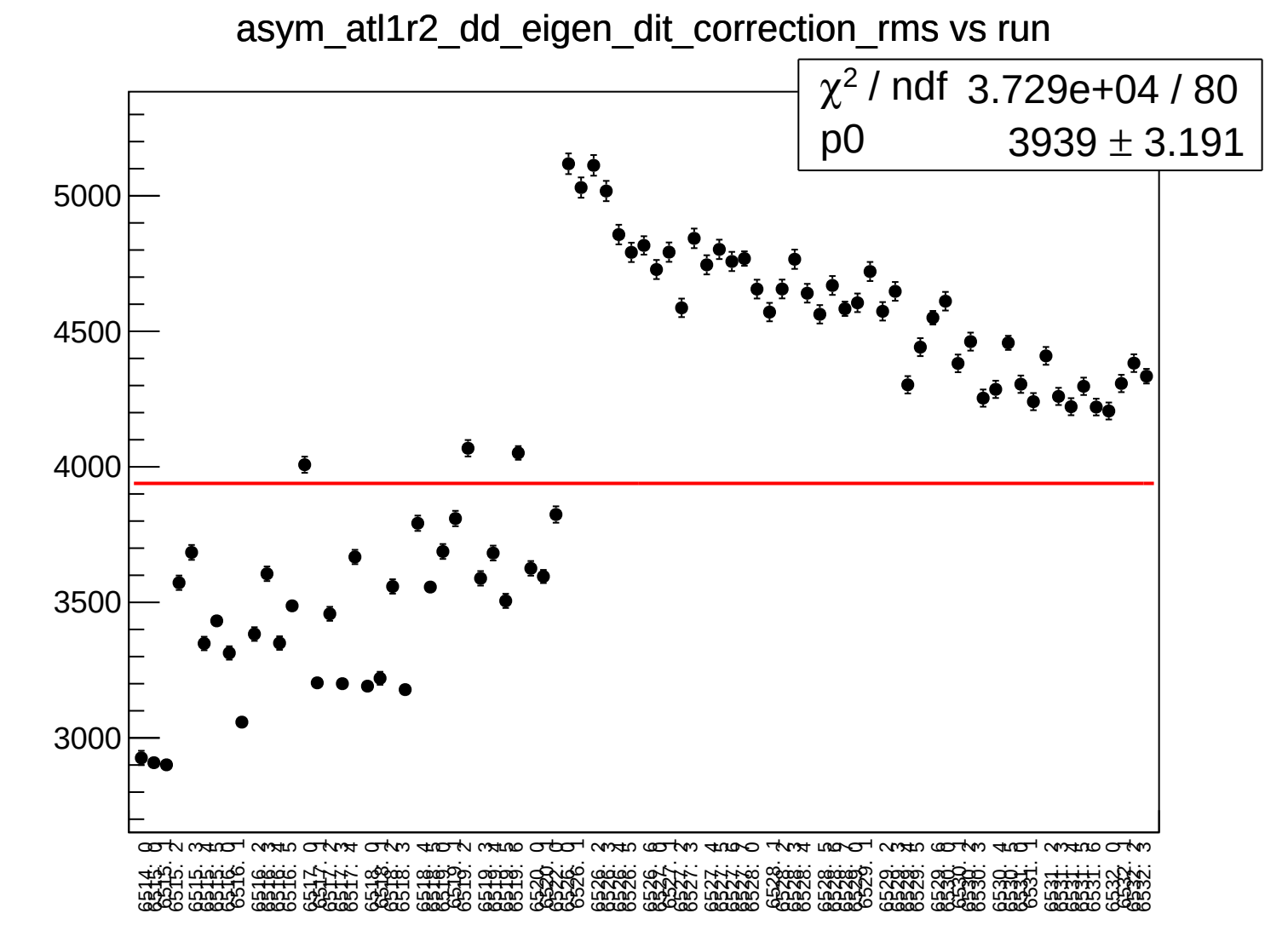

asym_atl1r2_dd_dit_correction_rms vs run
χ^2 / ndf 3.729e+04 / 80
p0 3939 ± 3.191
5000
4500
4000
3500
3000

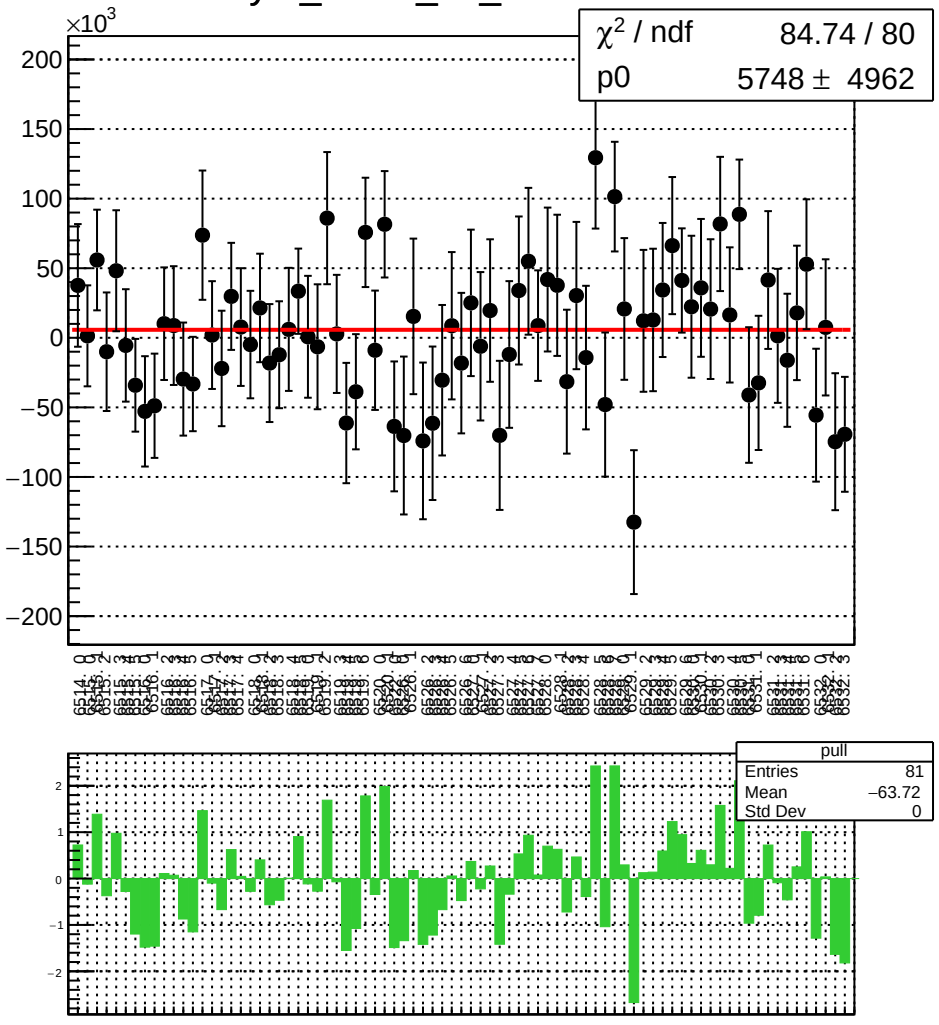

eigen_dit_asym_atl1r2_dd_mean vs run
χ² / ndf 71.5 / 80
p0 1933 ± 2025
pull
Entries 81
Mean −209.1
Std Dev 0
pull1D
Entries 81
Mean 0.004584
Std Dev 0.9395

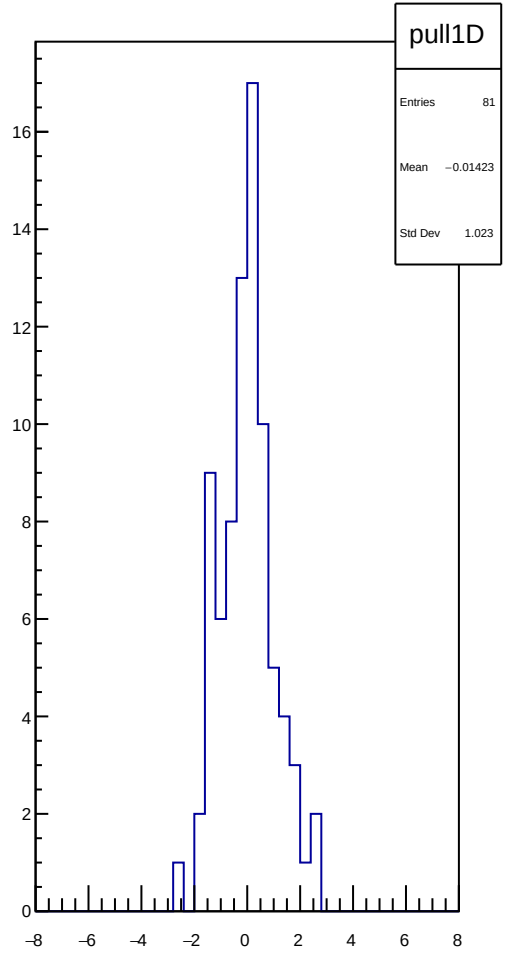

eigen_dit_asym_atl1r2_dd_rms vs run
χ² / ndf 256.5 / 80
p0 1789 ± 1.432
1880
1860
1840
1820
1800
1780
1760
1740
1720

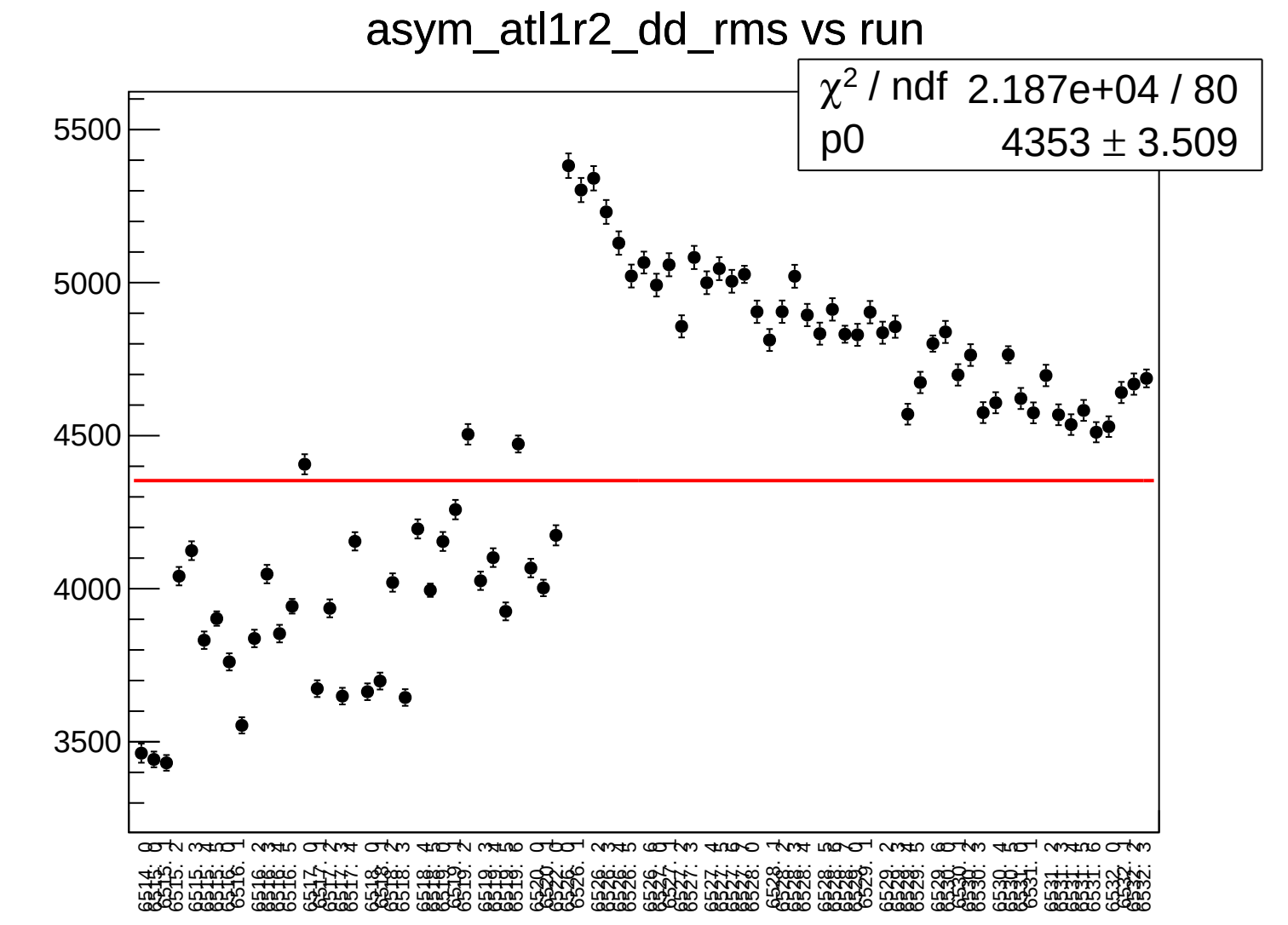

asym_atl1r2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 87.92 / 80
p0 −3124 ± 4513
150
100
50
0
−50
−100
−150
−200
pull
Entries 81
Mean −228.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

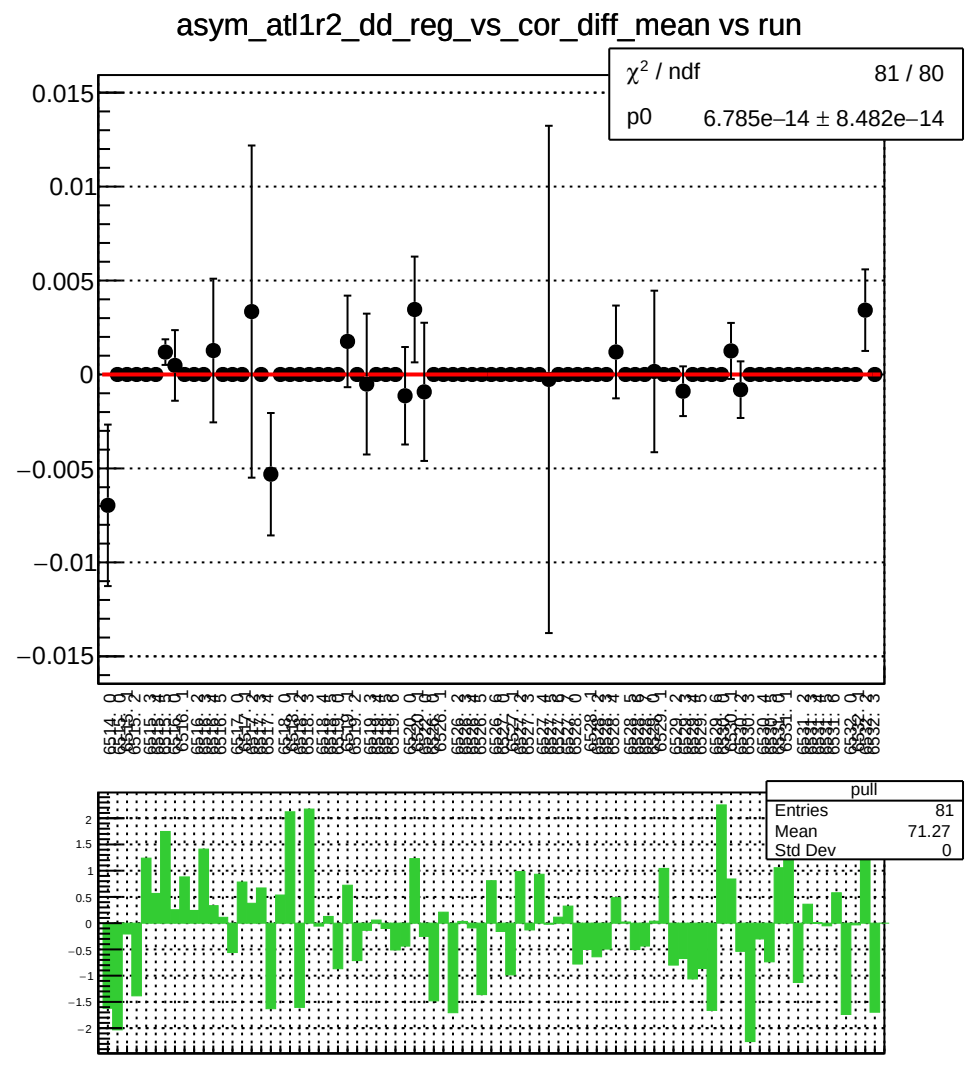

pull1D
Entries 81
Mean 0.008067
Std Dev 1.042
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

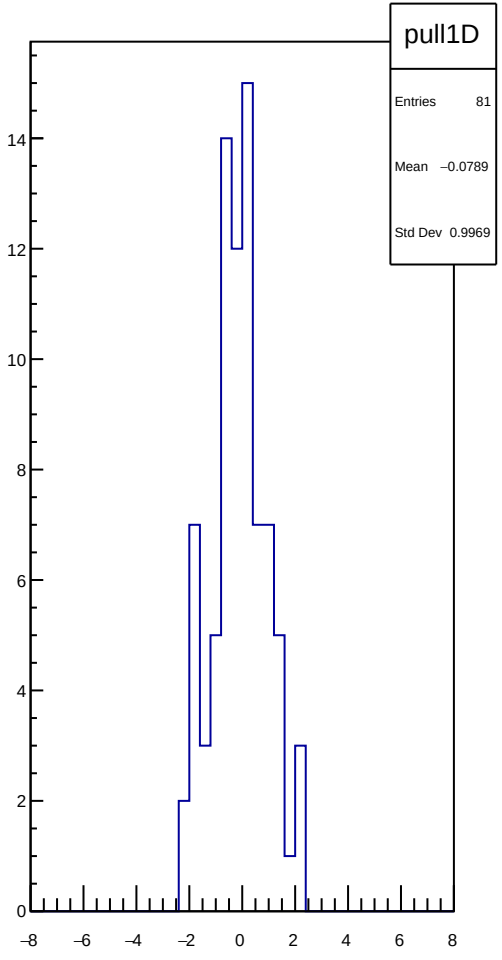

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.729e+04 / 80
p0 3939 ± 3.191
5000
4500
4000
3500
3000

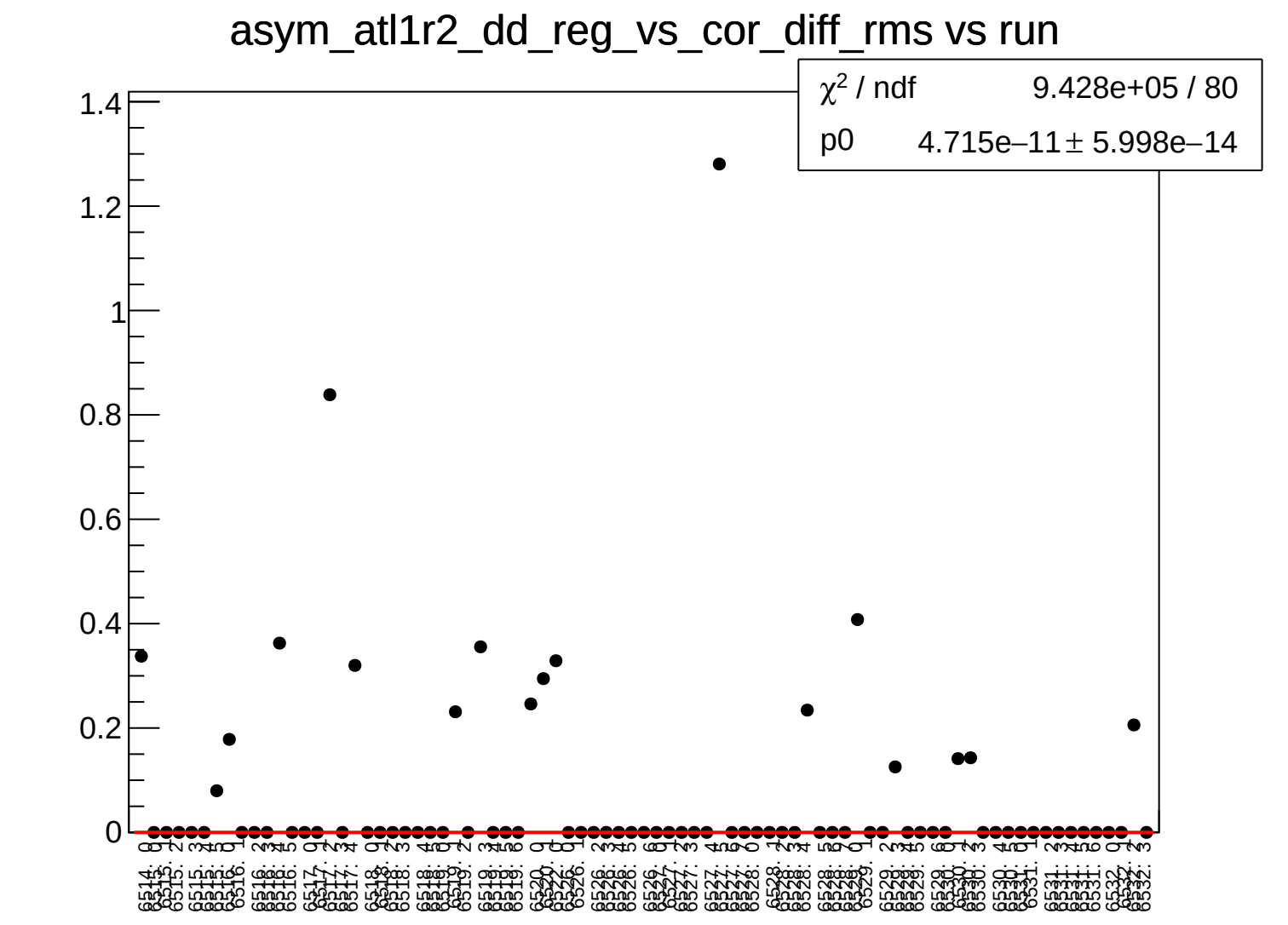

asym_atl1r2_dd_mean vs run
×10^3
χ^2 / ndf 84.74 / 80
p0 5748 ± 4962
pull
Entries 81
Mean −63.72
Std Dev 0

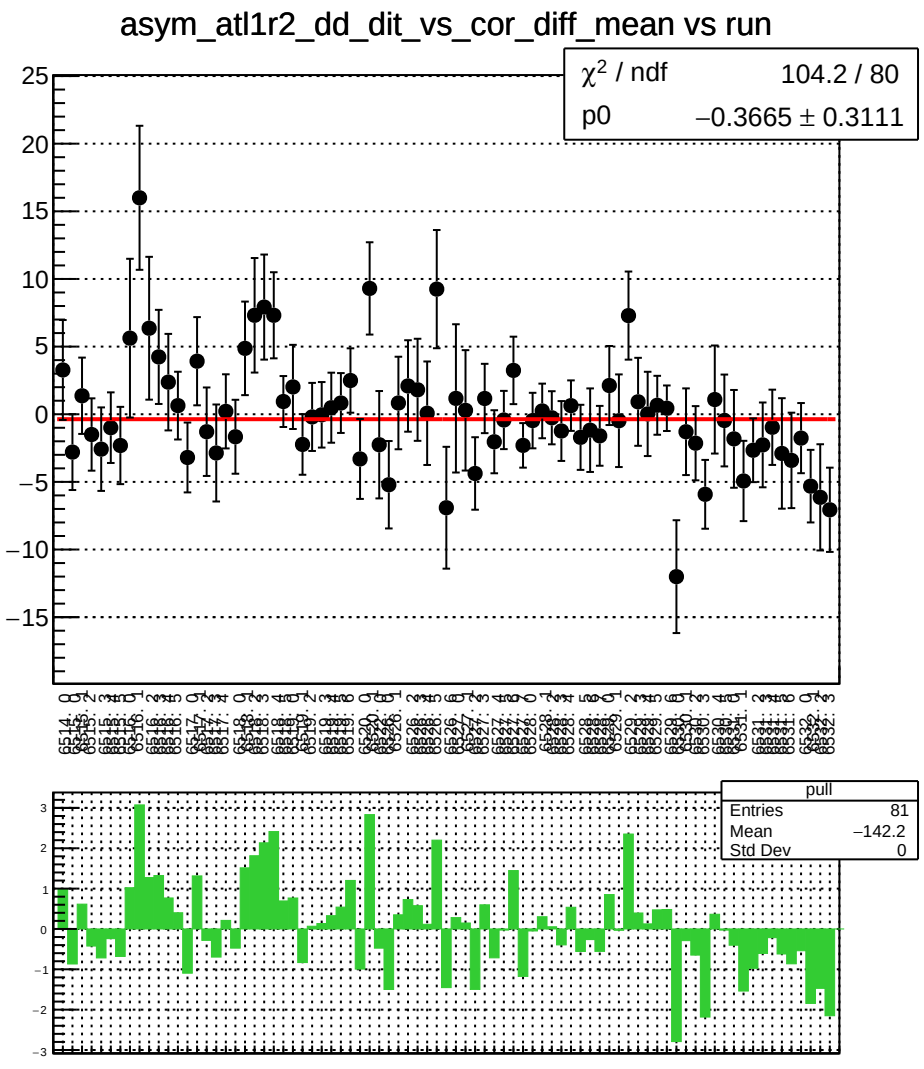

pull1D
Entries 81
Mean −0.01423
Std Dev 1.023

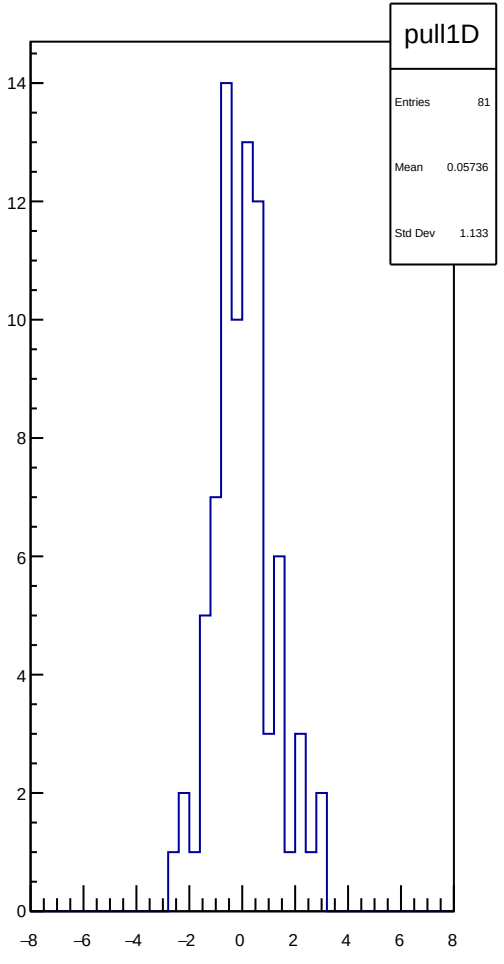

asym_atl1r2_dd_rms vs run
χ^2 / ndf 2.187e+04 / 80
p0 4353 ± 3.509
5500
5000
4500
4000
3500

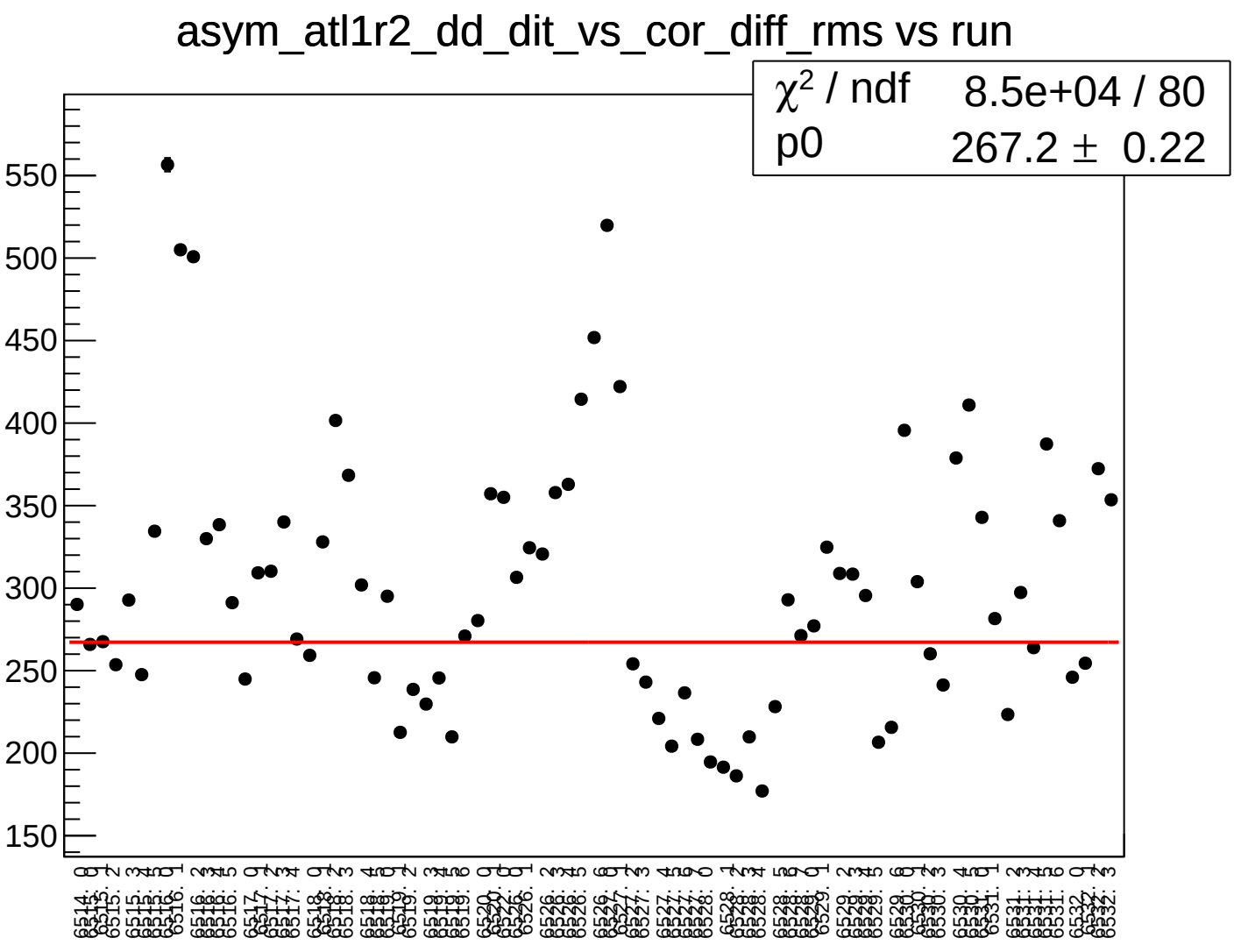

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 81 / 80
p0 6.785e−14 ± 8.482e−14
pull
Entries 81
Mean 71.27
Std Dev 0

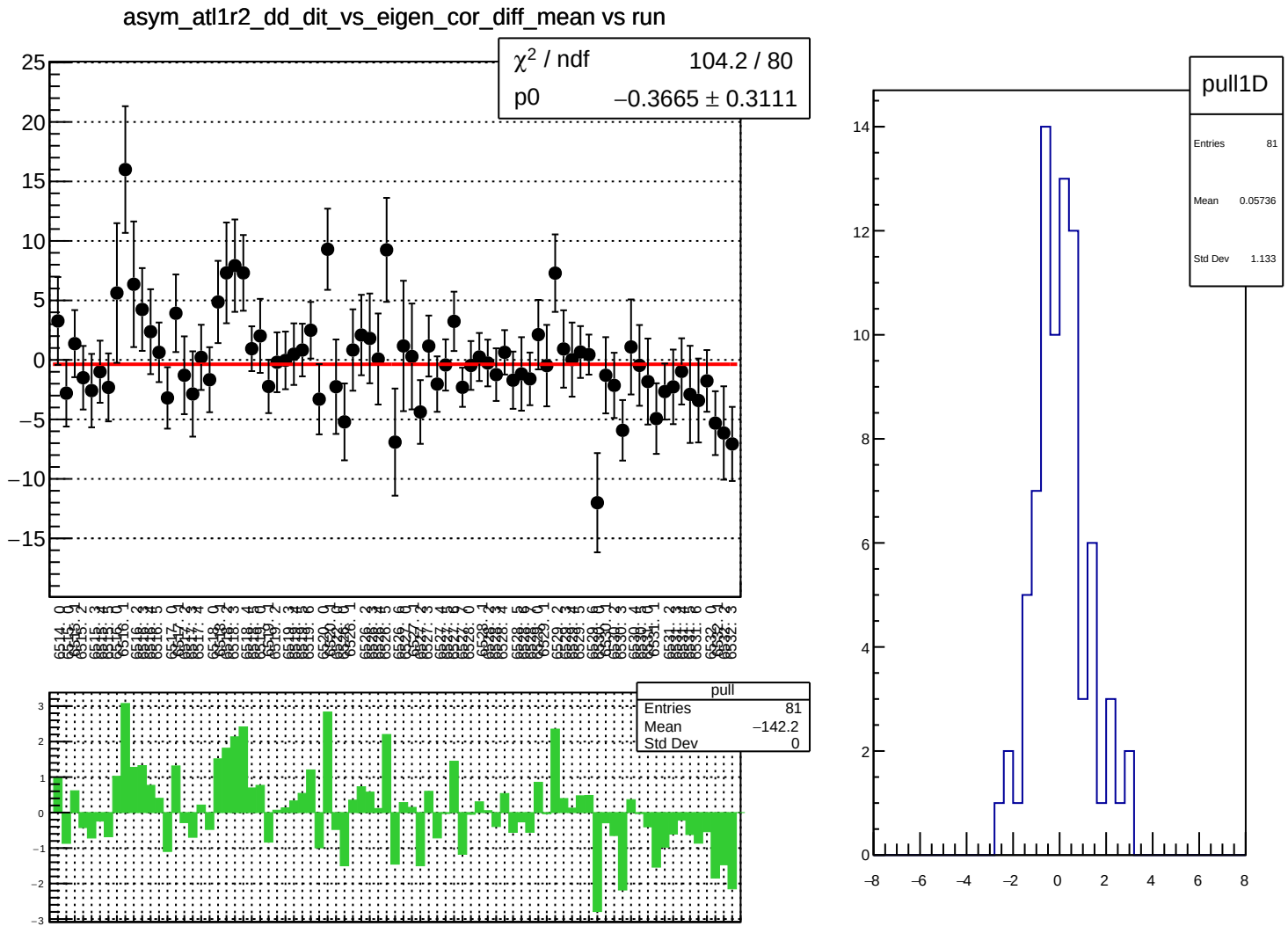

pull1D
Entries 81
Mean −0.0789
Std Dev 0.9969

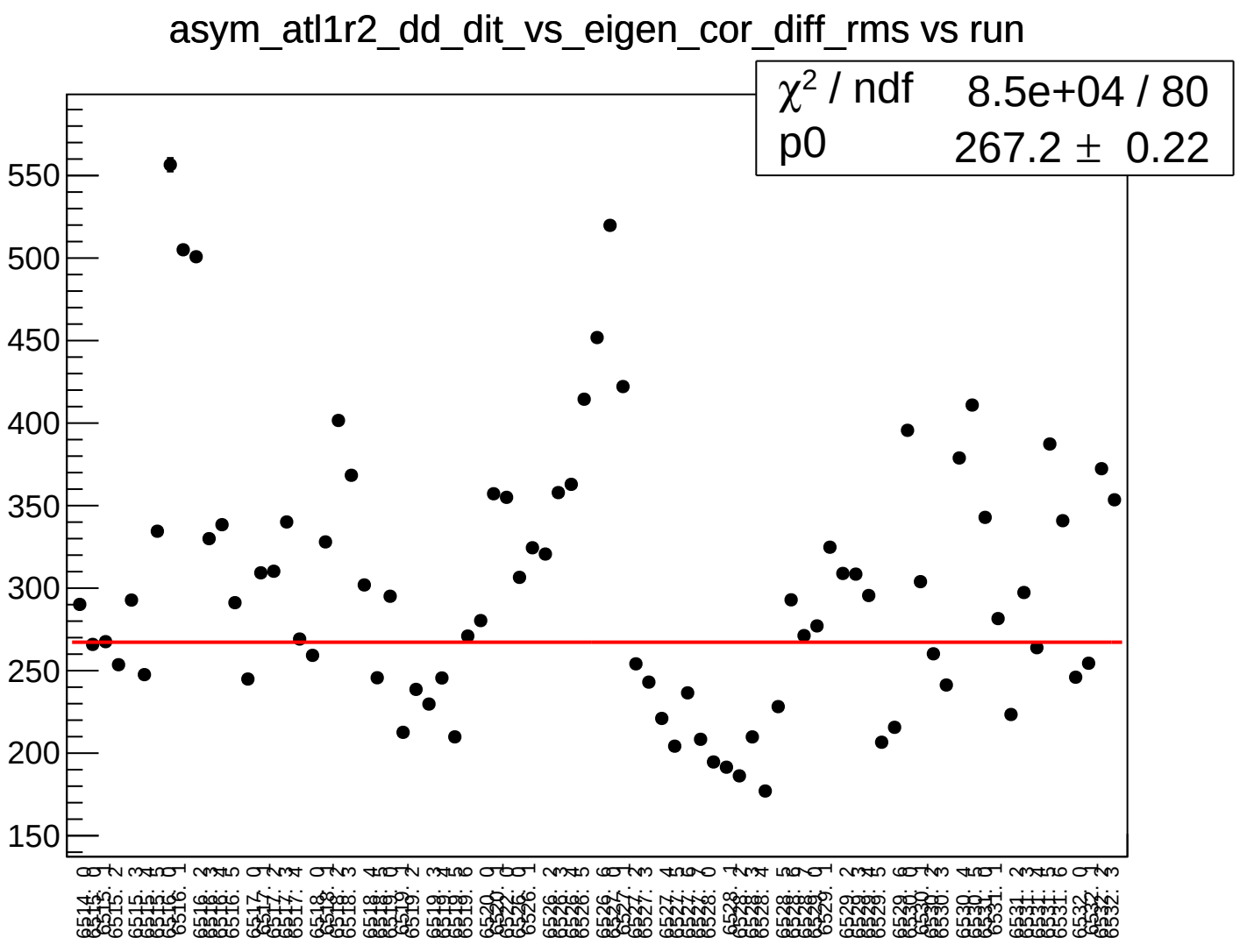

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ^2 / ndf 9.428e+05 / 80
p0 4.715e−11 ± 5.998e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

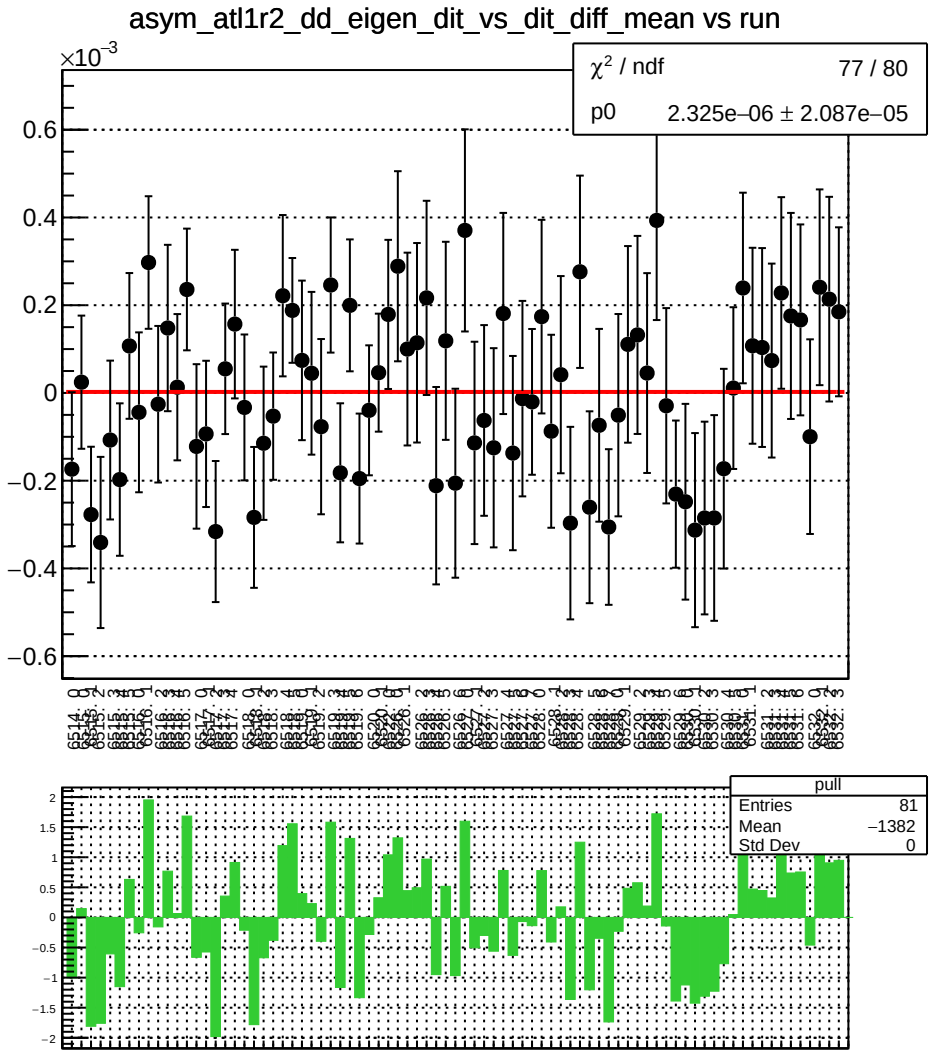

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 104.2 / 80
p0 −0.3665 ± 0.3111
pull
Entries 81
Mean −142.2
Std Dev 0

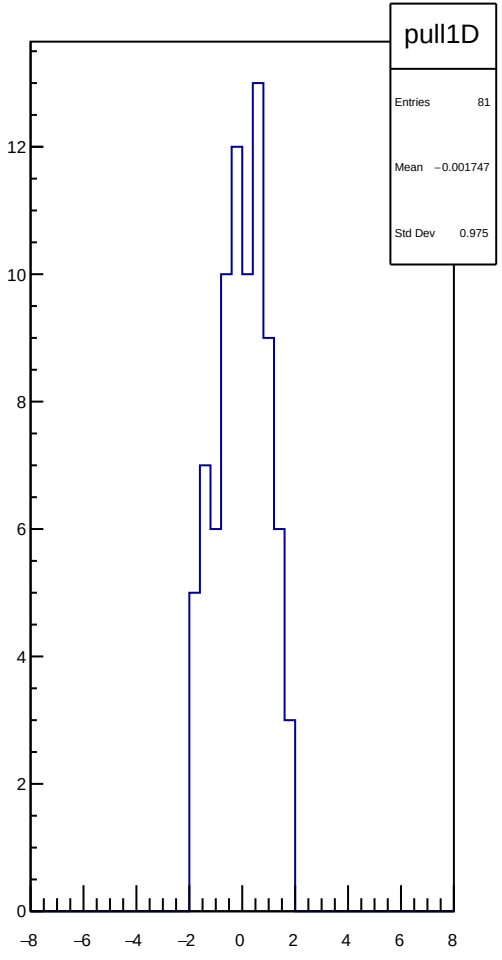

pull1D
Entries 81
Mean 0.05736
Std Dev 1.133

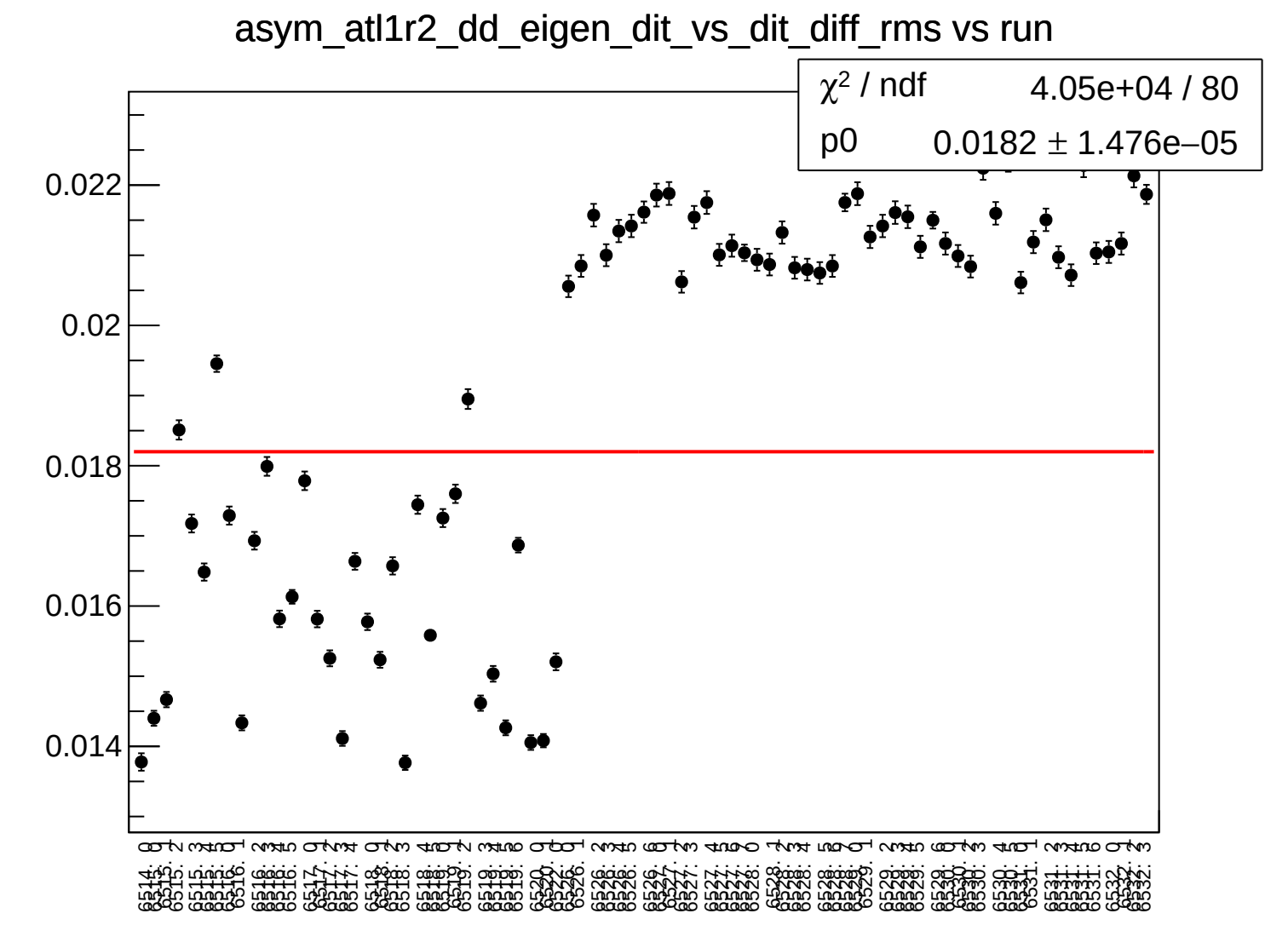

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.5e+04 / 80
p0 267.2 ± 0.22
550
500
450
400
350
300
250
200
150

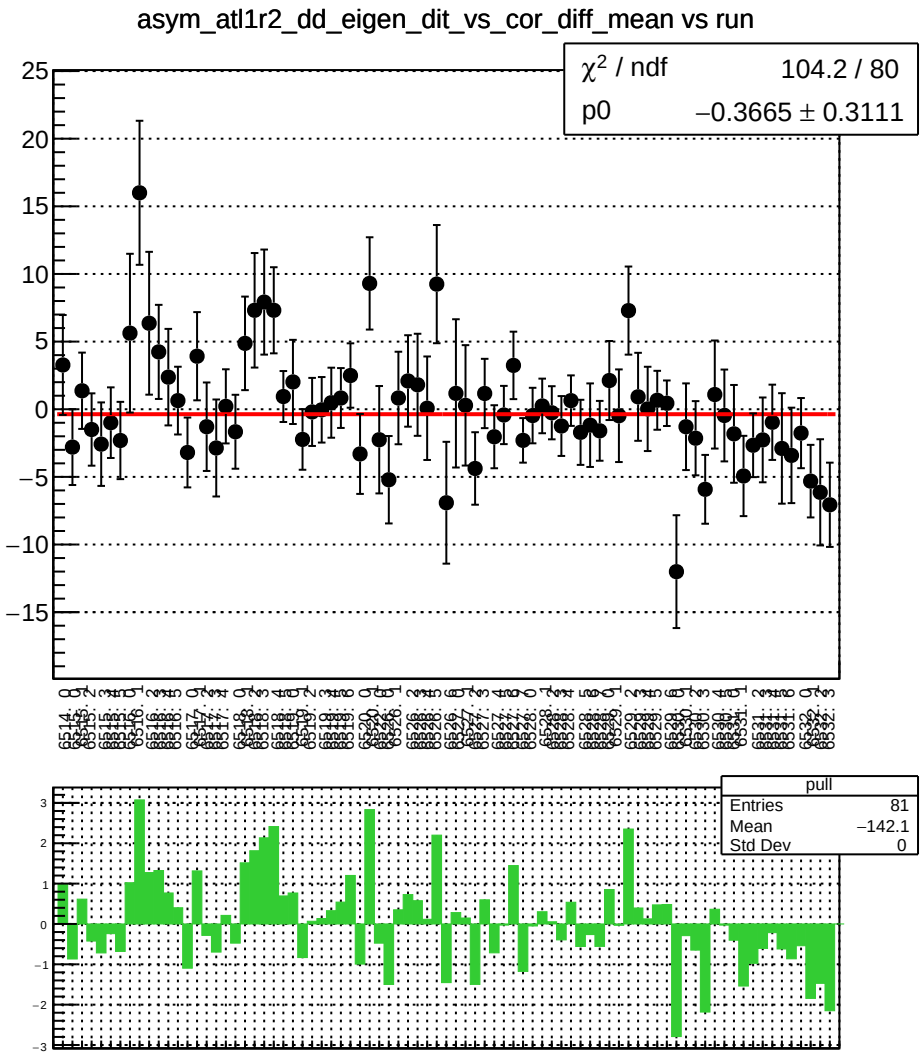

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.2 / 80
p0 −0.3665 ± 0.3111
pull
Entries 81
Mean −142.2
Std Dev 0
pull1D
Entries 81
Mean 0.05736
Std Dev 1.133

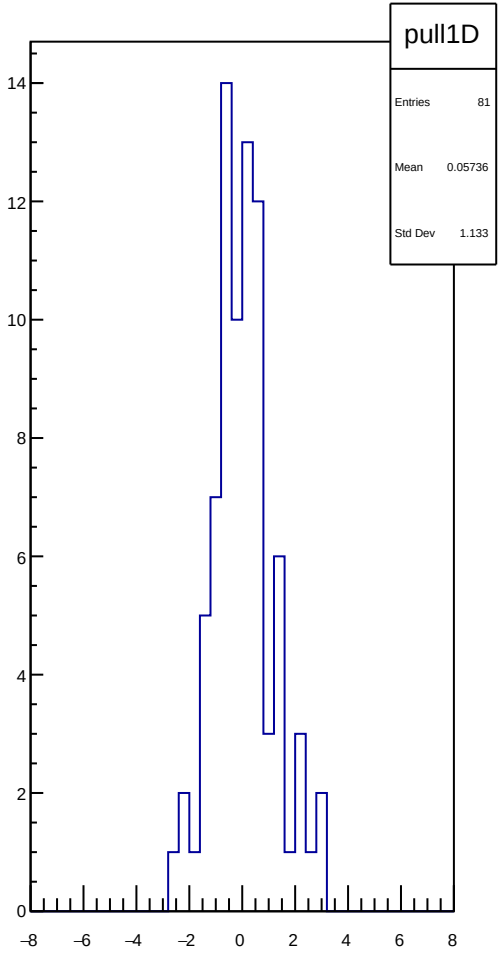

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.5e+04 / 80
p0 267.2 ± 0.22
550
500
450
400
350
300
250
200
150

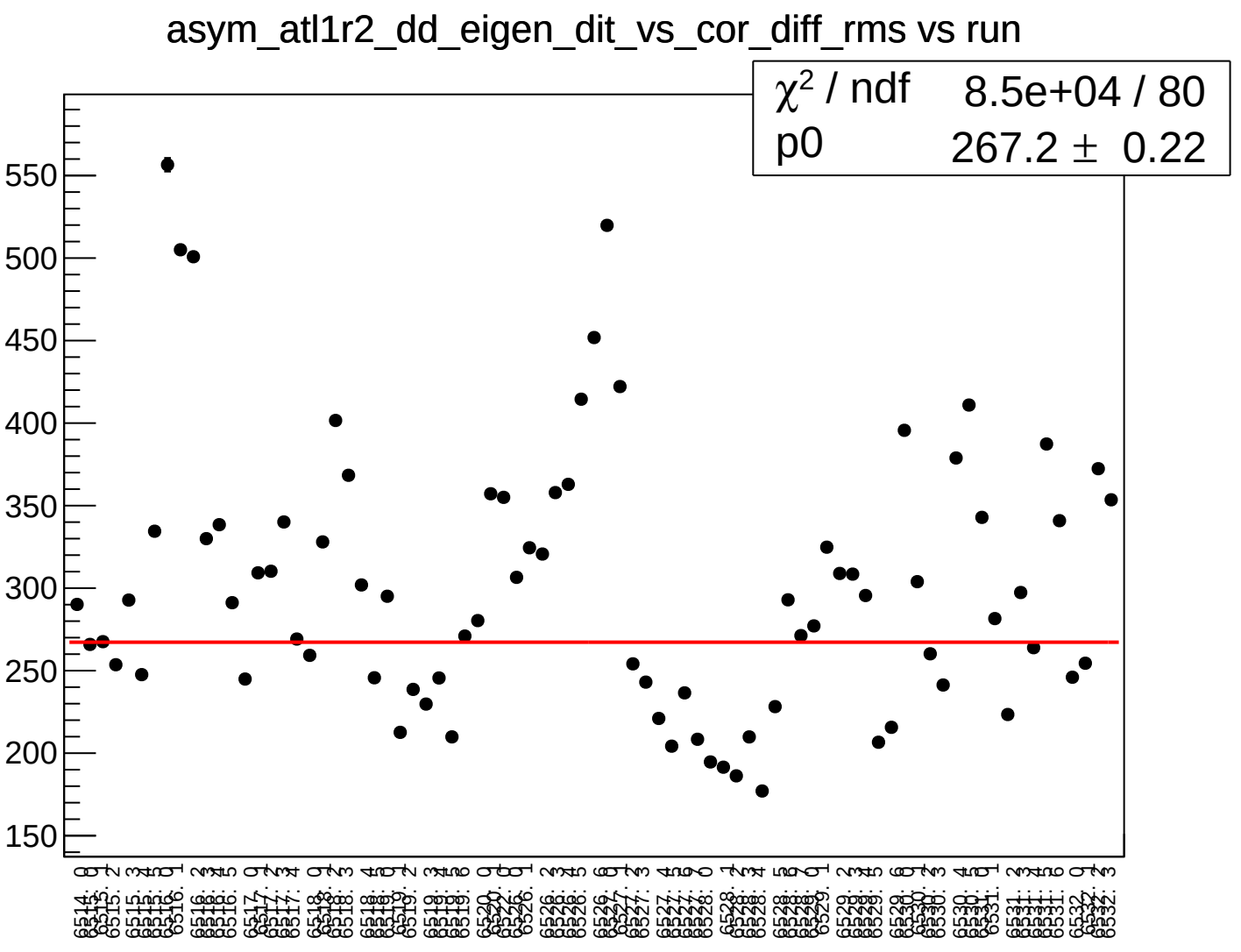

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77 / 80
p0 2.325e−06 ± 2.087e−05
pull
Entries 81
Mean −1382
Std Dev 0

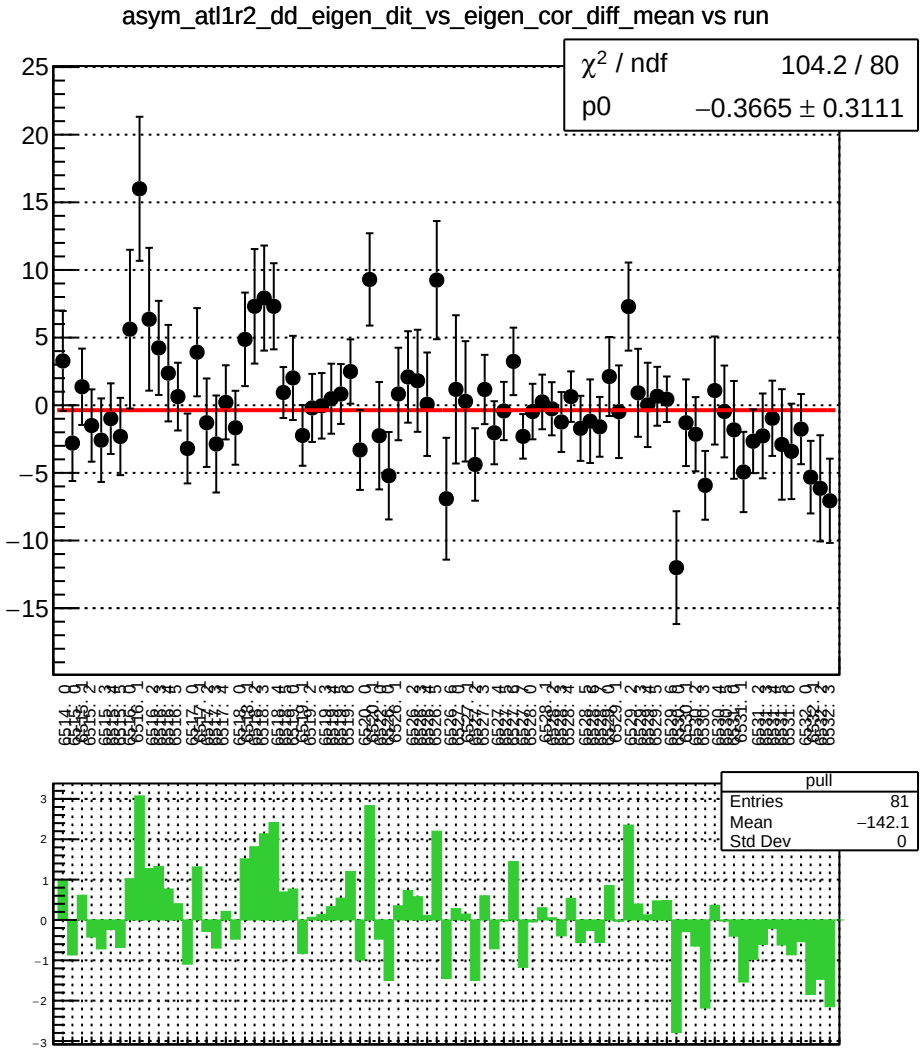

pull1D
Entries 81
Mean −0.001747
Std Dev 0.975

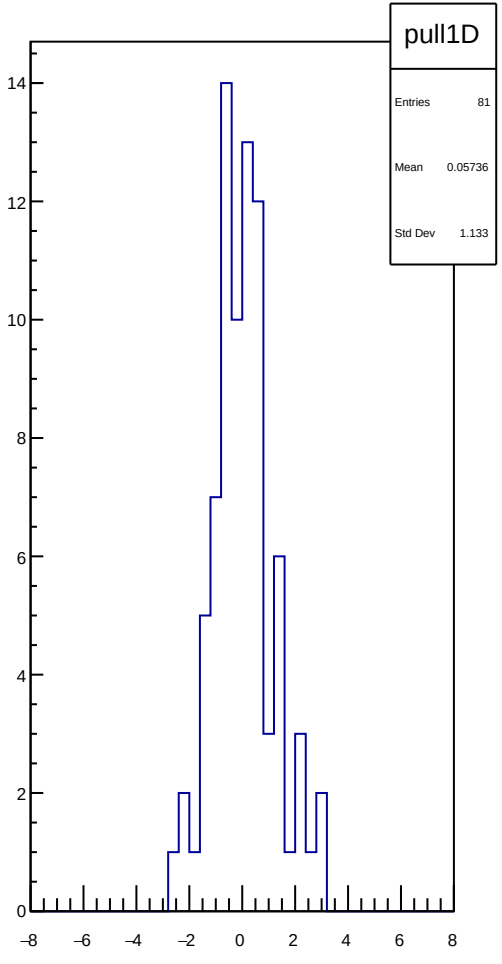

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.05e+04 / 80
p0 0.0182 ± 1.476e−05
0.022
0.02
0.018
0.016
0.014

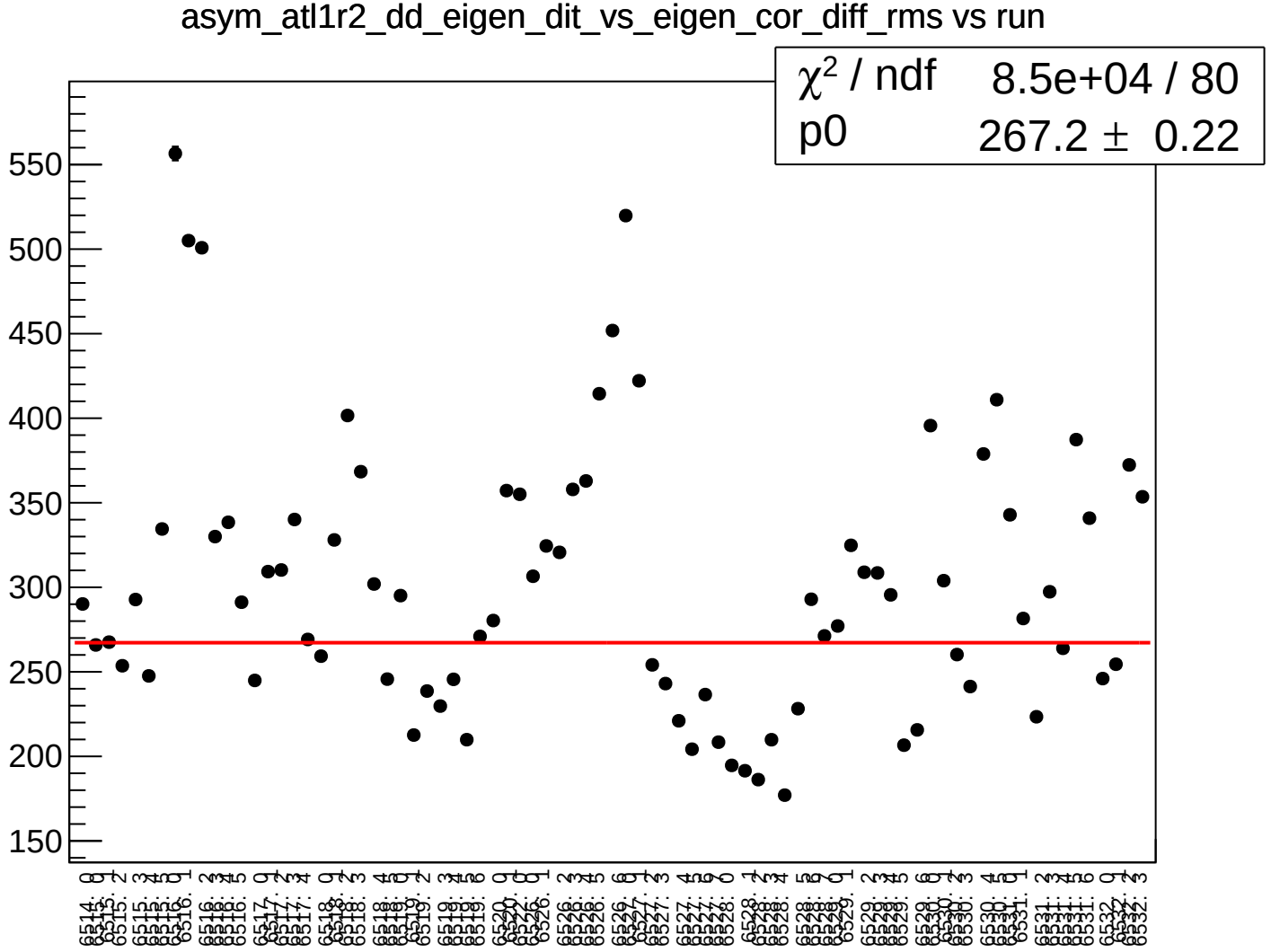

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.2 / 80
p0 −0.3665 ± 0.3111
pull
Entries 81
Mean −142.1
Std Dev 0

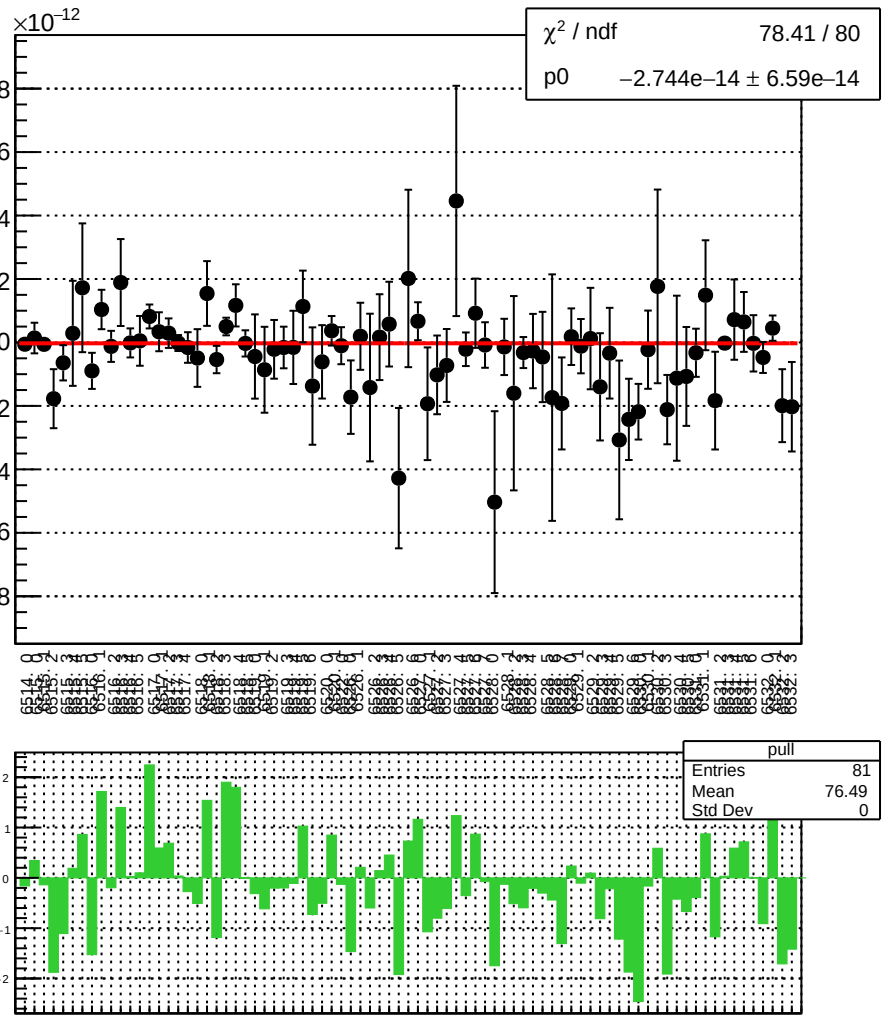

pull1D
Entries 81
Mean 0.05736
Std Dev 1.133

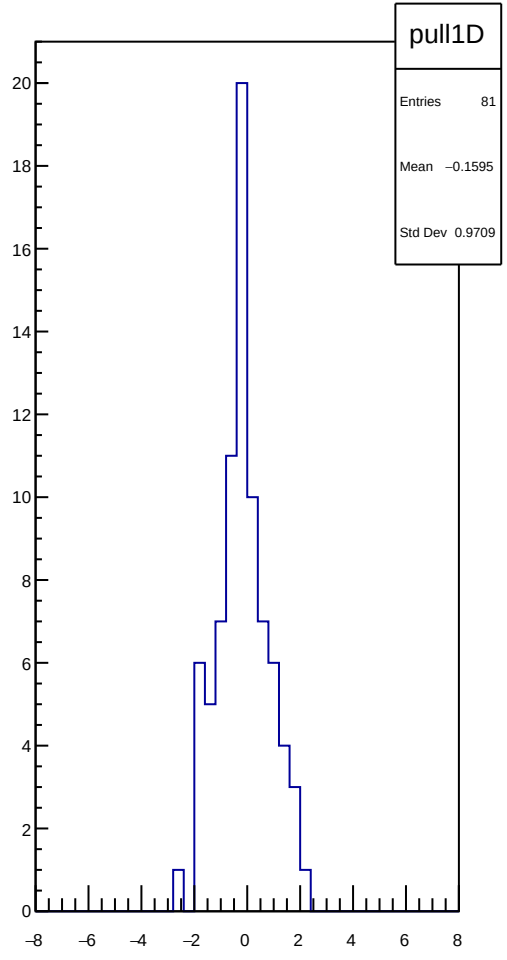

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.5e+04 / 80
p0 267.2 ± 0.22
550
500
450
400
350
300
250
200
150

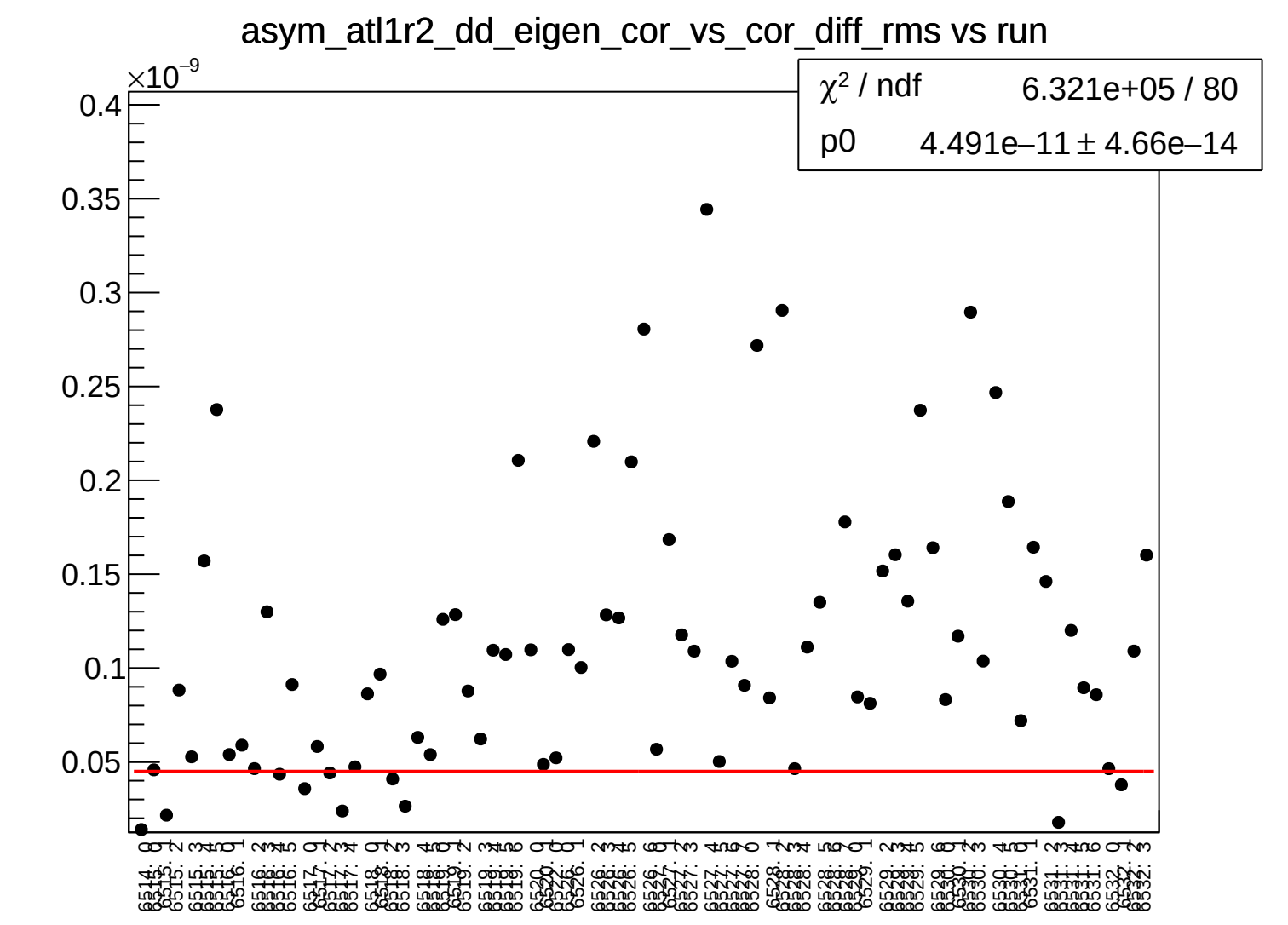

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.2 / 80
p0 −0.3665 ± 0.3111
pull
Entries 81
Mean −142.1
Std Dev 0

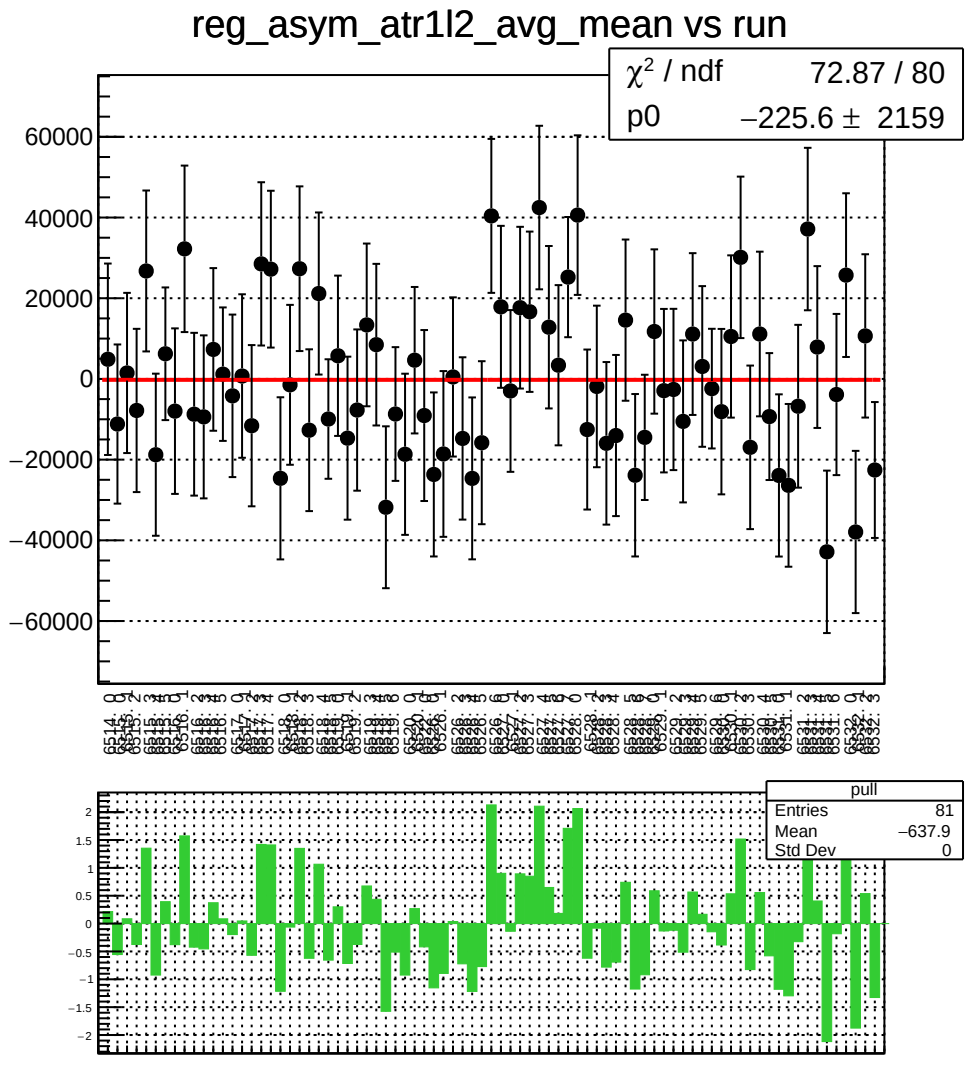

pull1D
Entries 81
Mean 0.05736
Std Dev 1.133

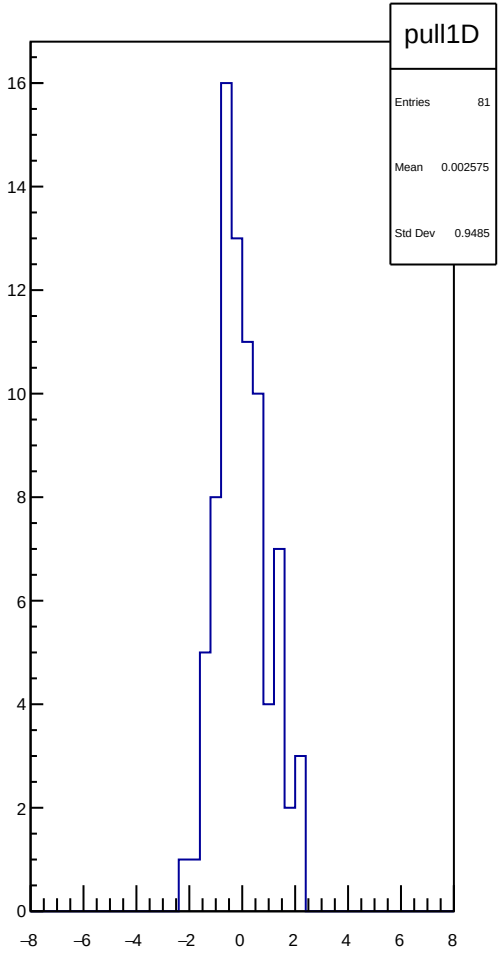

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.5e+04 / 80
p0 267.2 ± 0.22
550
500
450
400
350
300
250
200
150

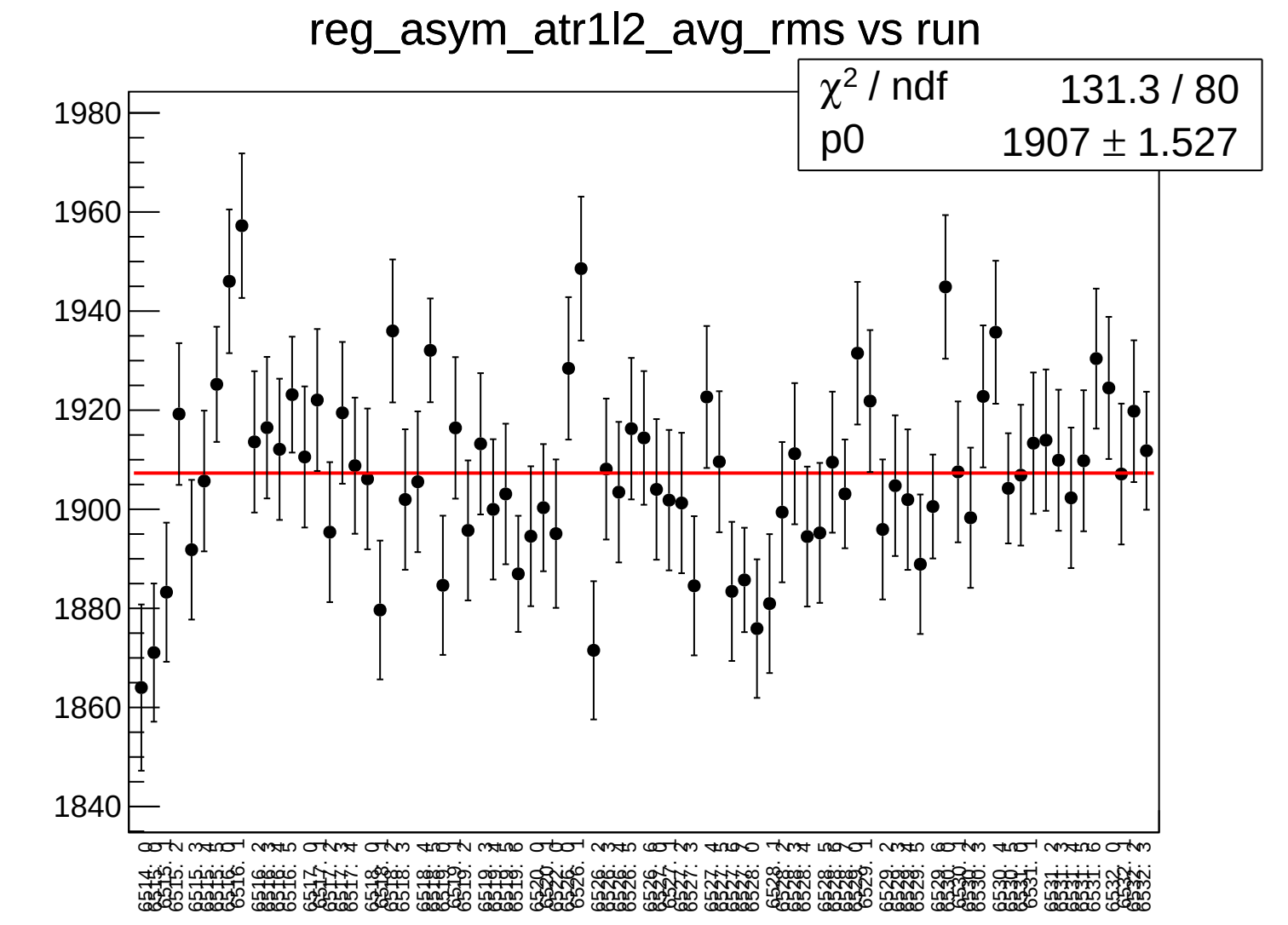

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.41 / 80
p0 −2.744e−14 ± 6.59e−14
pull
Entries 81
Mean 76.49
Std Dev 0

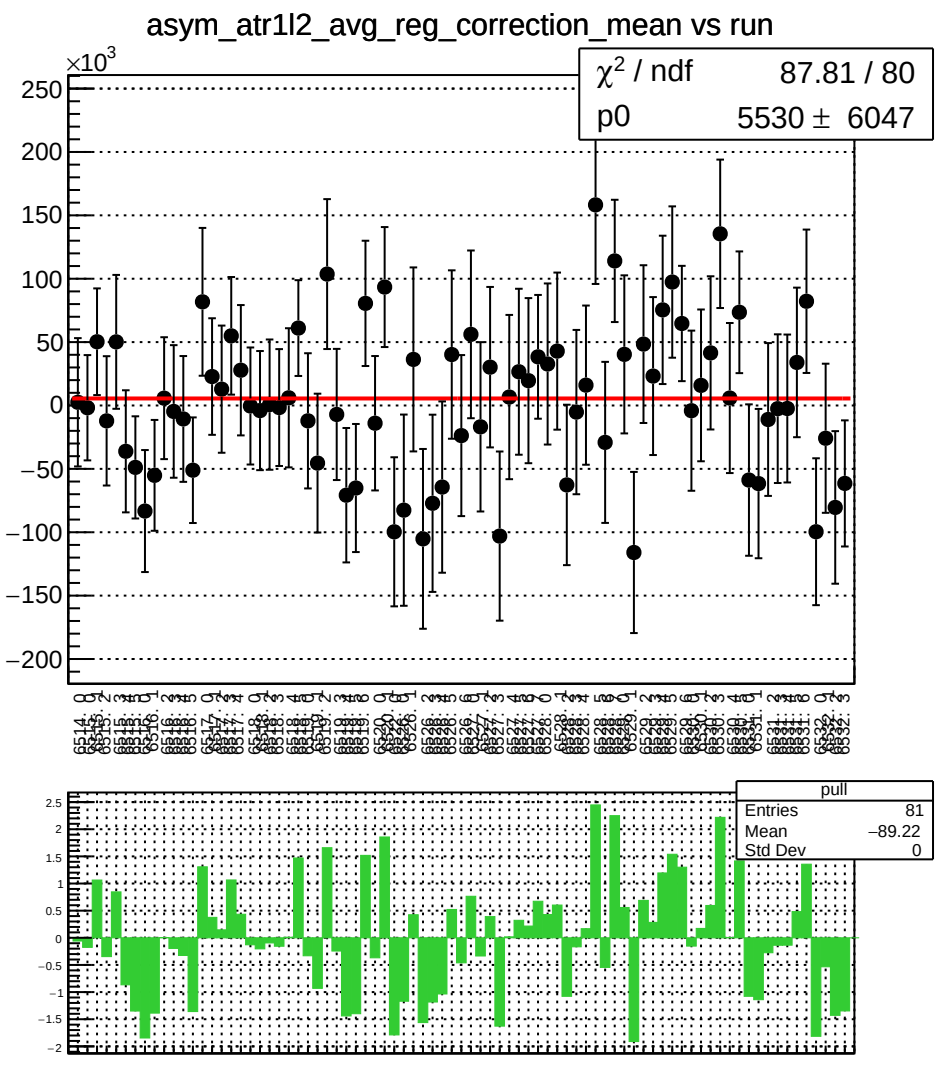

pull1D
Entries 81
Mean −0.1595
Std Dev 0.9709

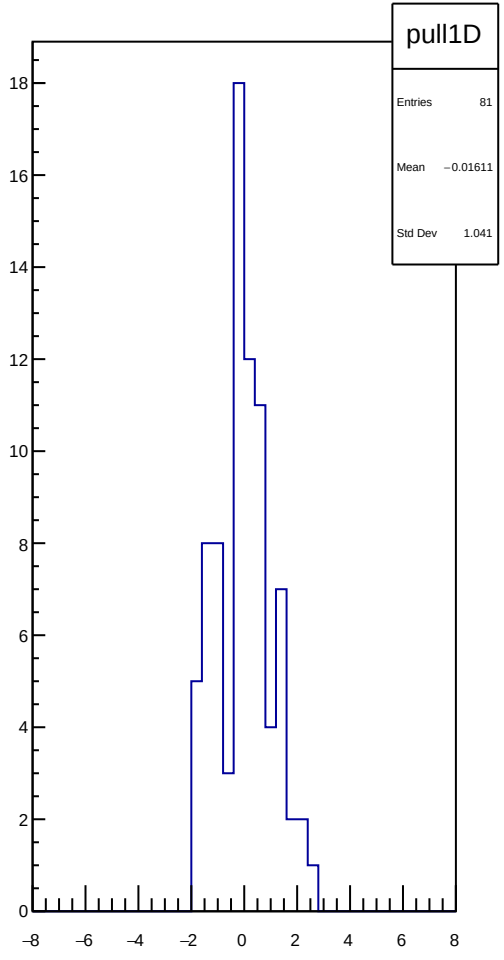

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.321e+05 / 80
p0 4.491e−11 ± 4.66e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

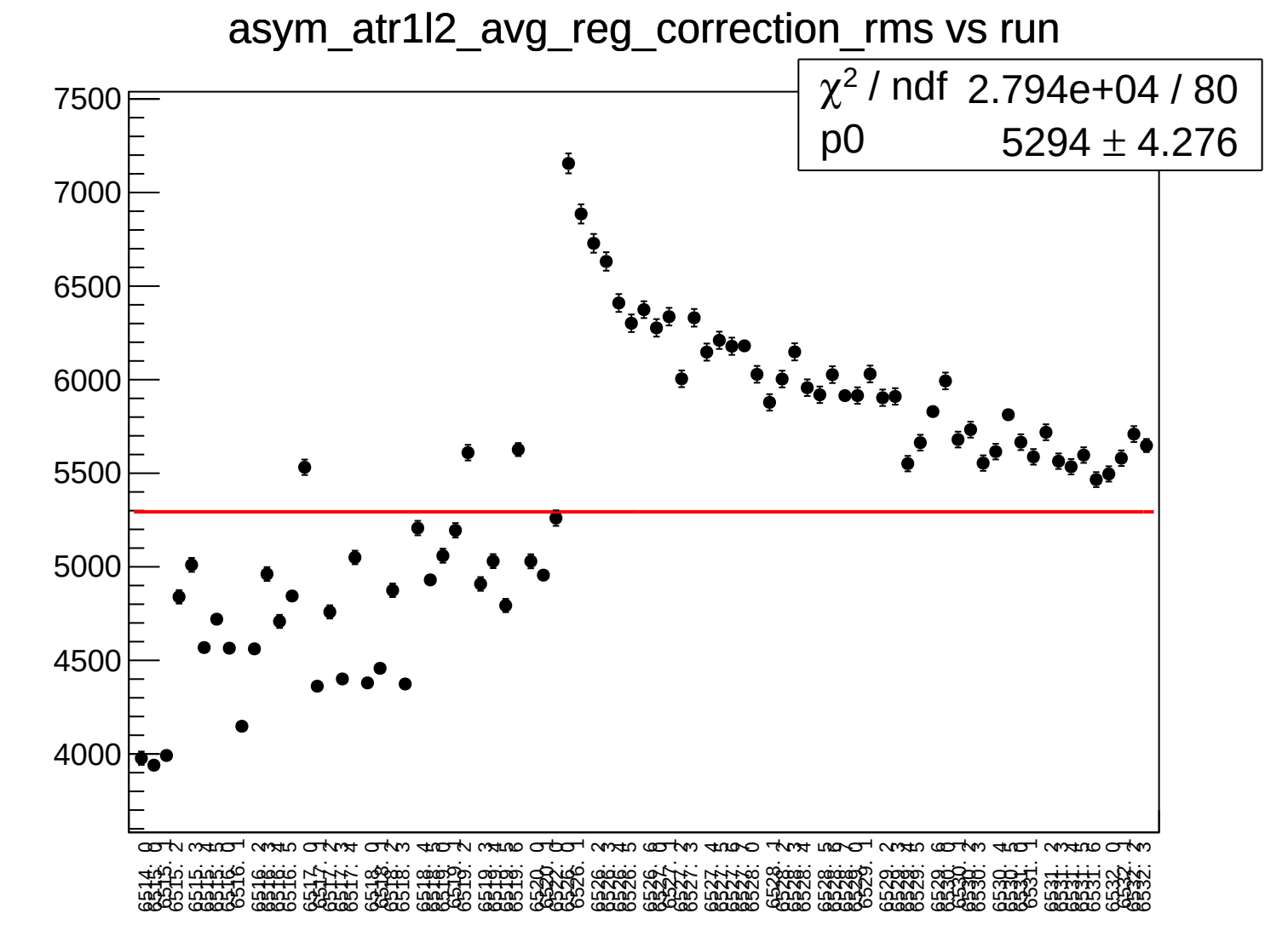

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 72.87 / 80
p0 −225.6 ± 2159
pull
Entries 81
Mean −637.9
Std Dev 0

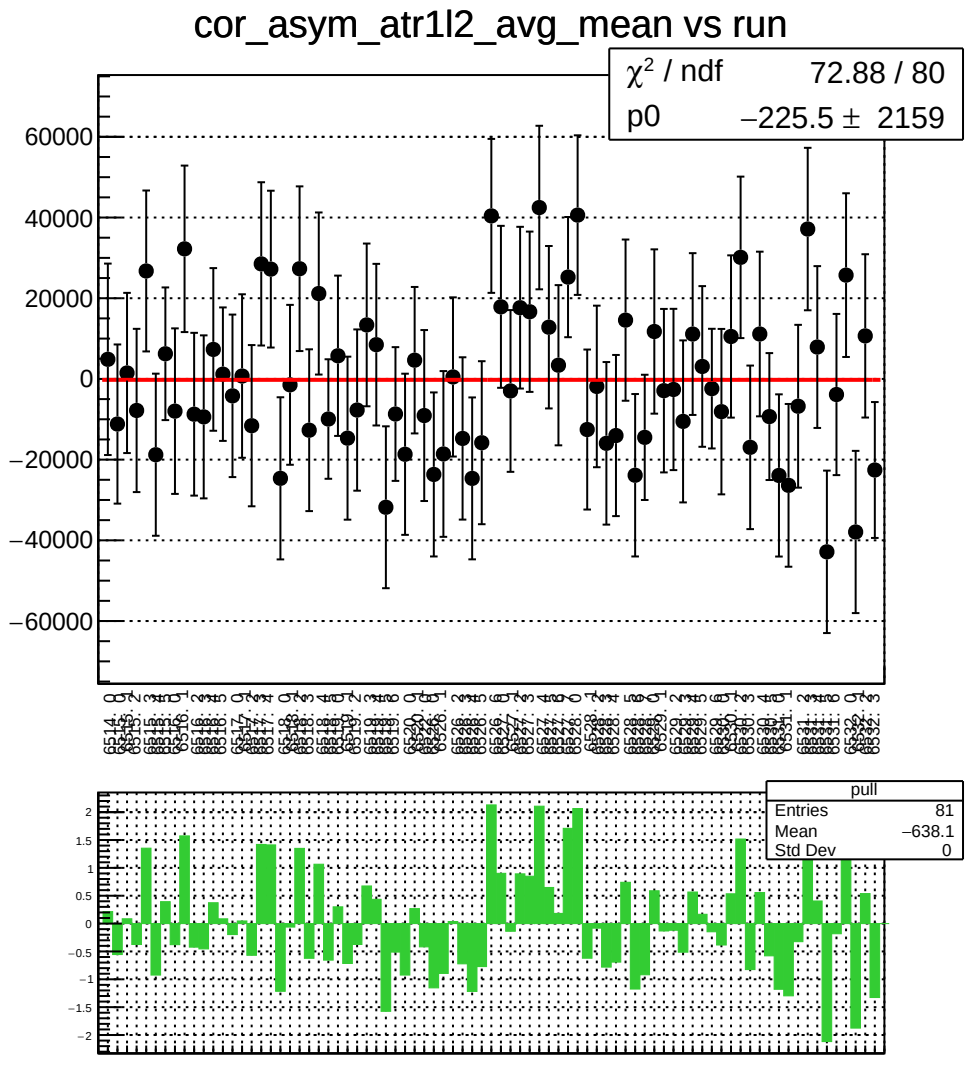

pull1D
Entries 81
Mean 0.002575
Std Dev 0.9485

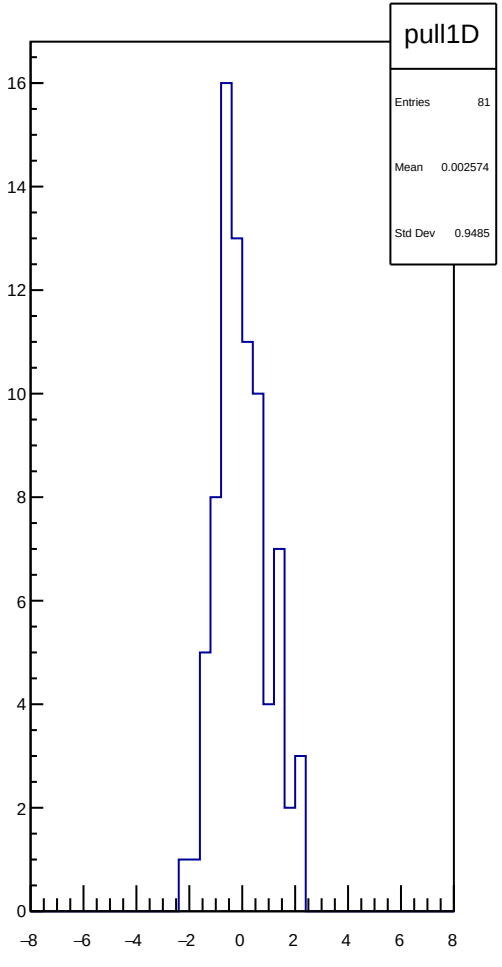

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 131.3 / 80
p0 1907 ± 1.527
1980
1960
1940
1920
1900
1880
1860
1840

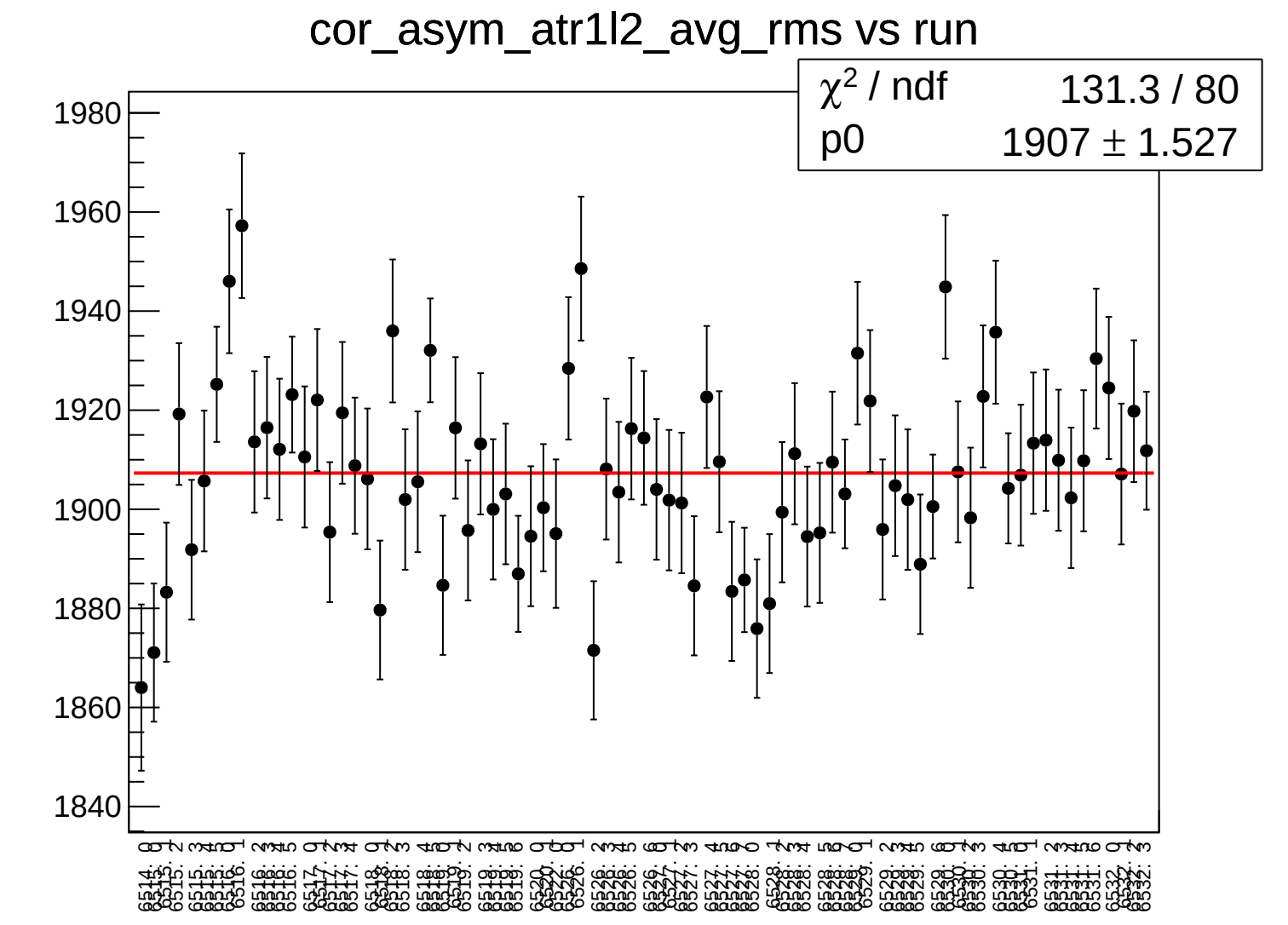

asym_atr1l2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 87.81 / 80
p0 5530 ± 6047
pull
Entries 81
Mean −89.22
Std Dev 0

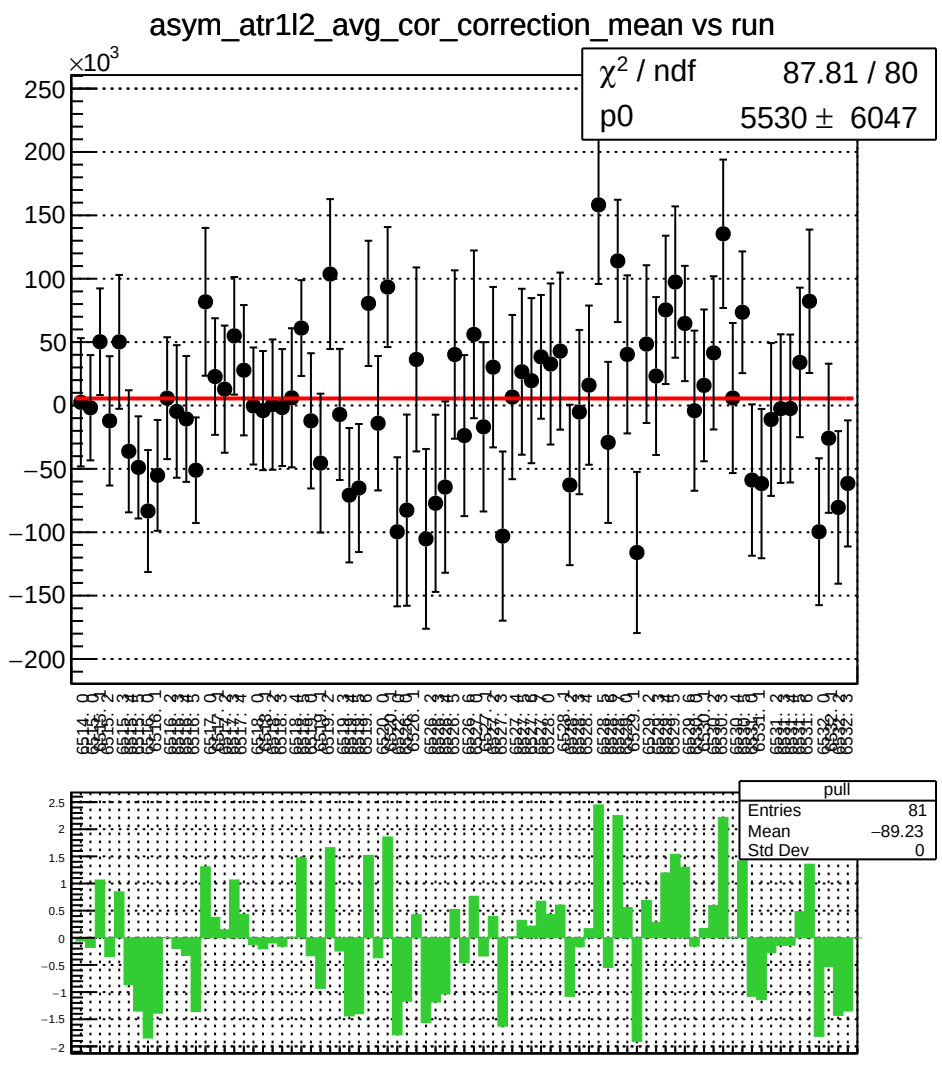

pull1D
Entries 81
Mean −0.01611
Std Dev 1.041

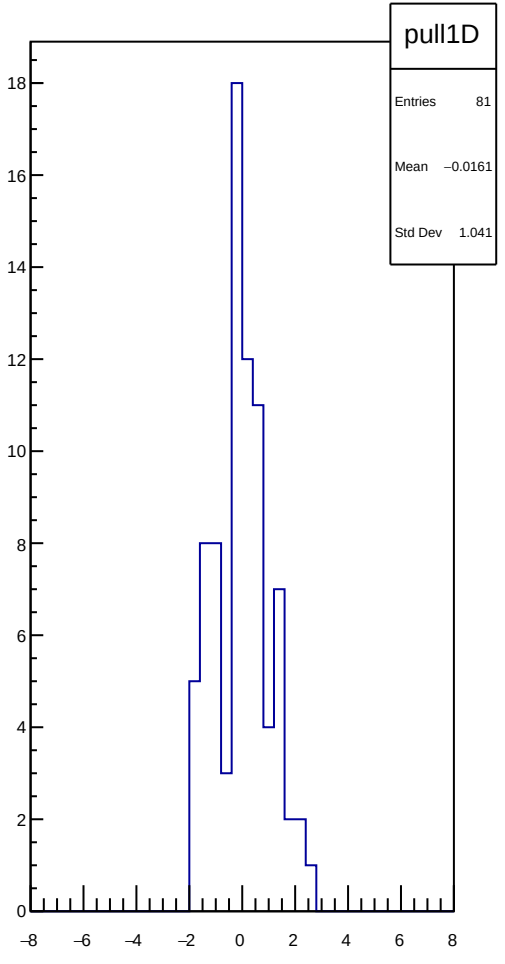

asym_atr1l2_avg_reg_correction_rms vs run
χ^2 / ndf 2.794e+04 / 80
p0 5294 ± 4.276
7500
7000
6500
6000
5500
5000
4500
4000

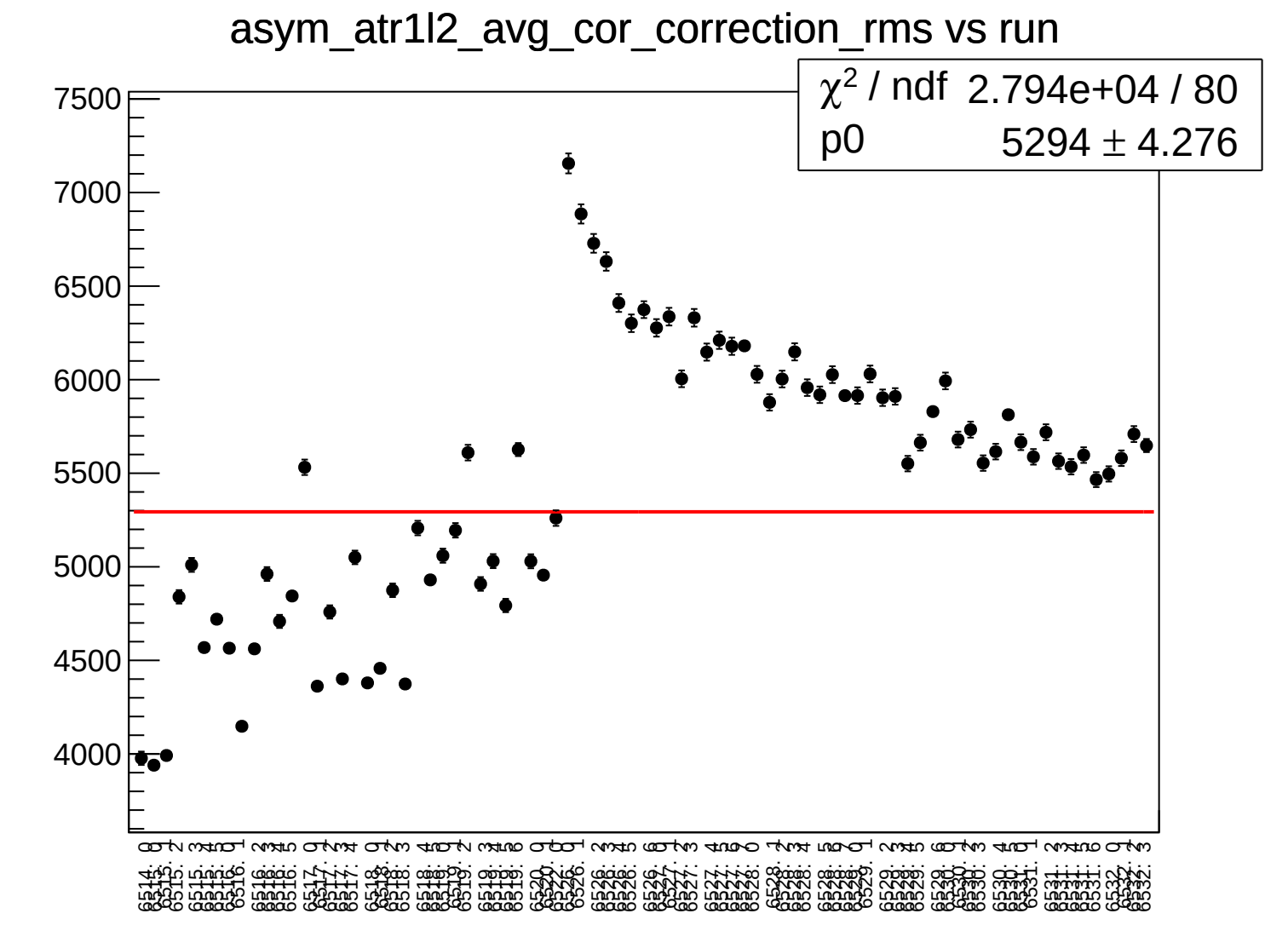

cor_asym_atr1l2_avg_mean vs run
χ² / ndf 72.88 / 80
p0 −225.5 ± 2159
pull
Entries 81
Mean −638.1
Std Dev 0

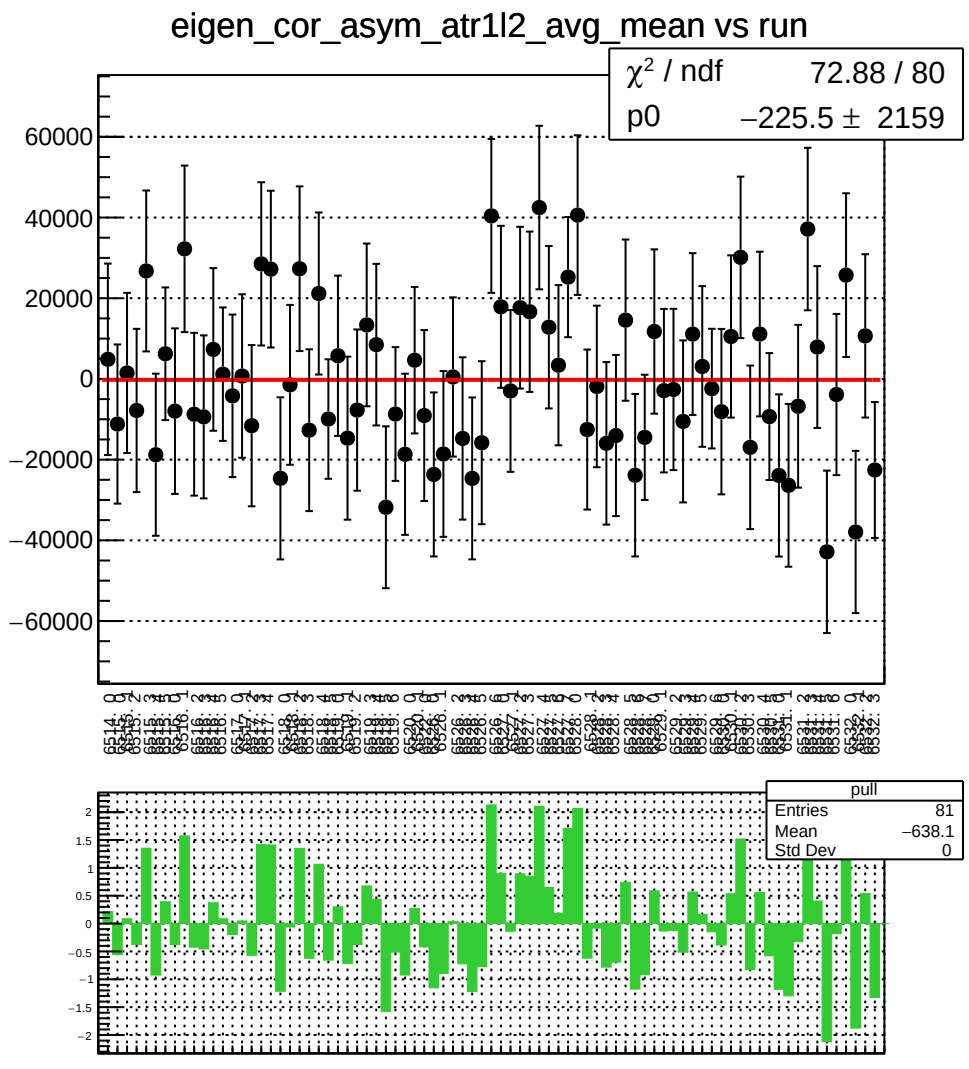

pull1D
Entries 81
Mean 0.002574
Std Dev 0.9485

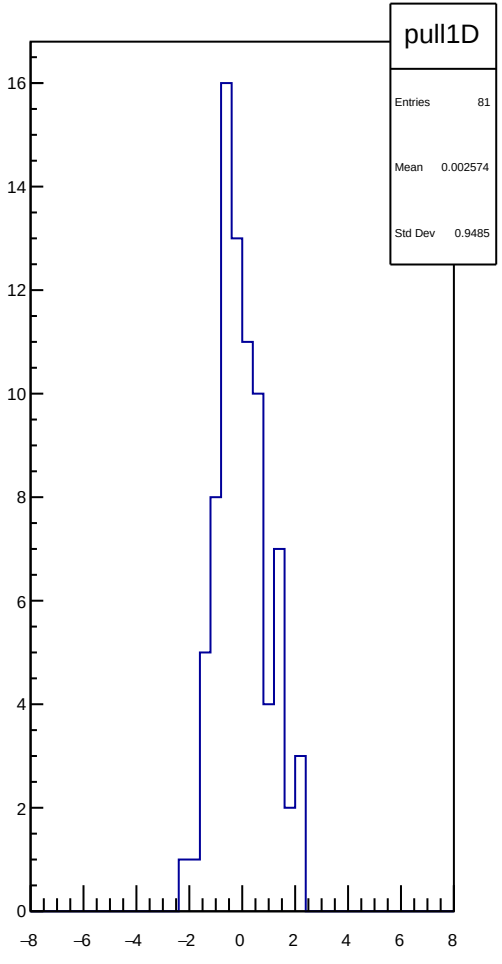

cor_asym_atr1l2_avg_rms vs run
χ^2 / ndf 131.3 / 80
p0 1907 ± 1.527
1980
1960
1940
1920
1900
1880
1860
1840

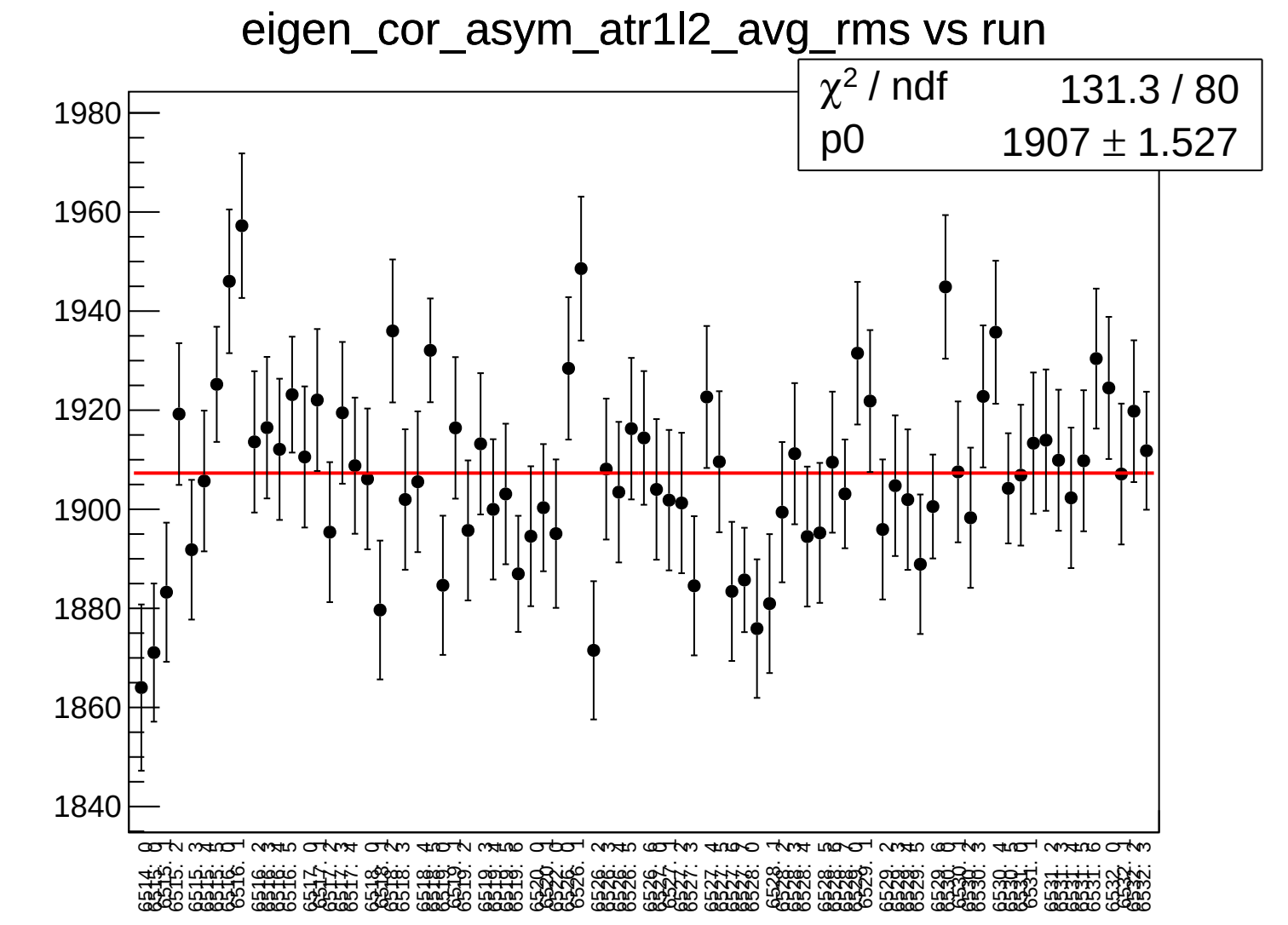

asym_atr1l2_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 87.81 / 80
p0 5530 ± 6047
pull
Entries 81
Mean −89.23
Std Dev 0

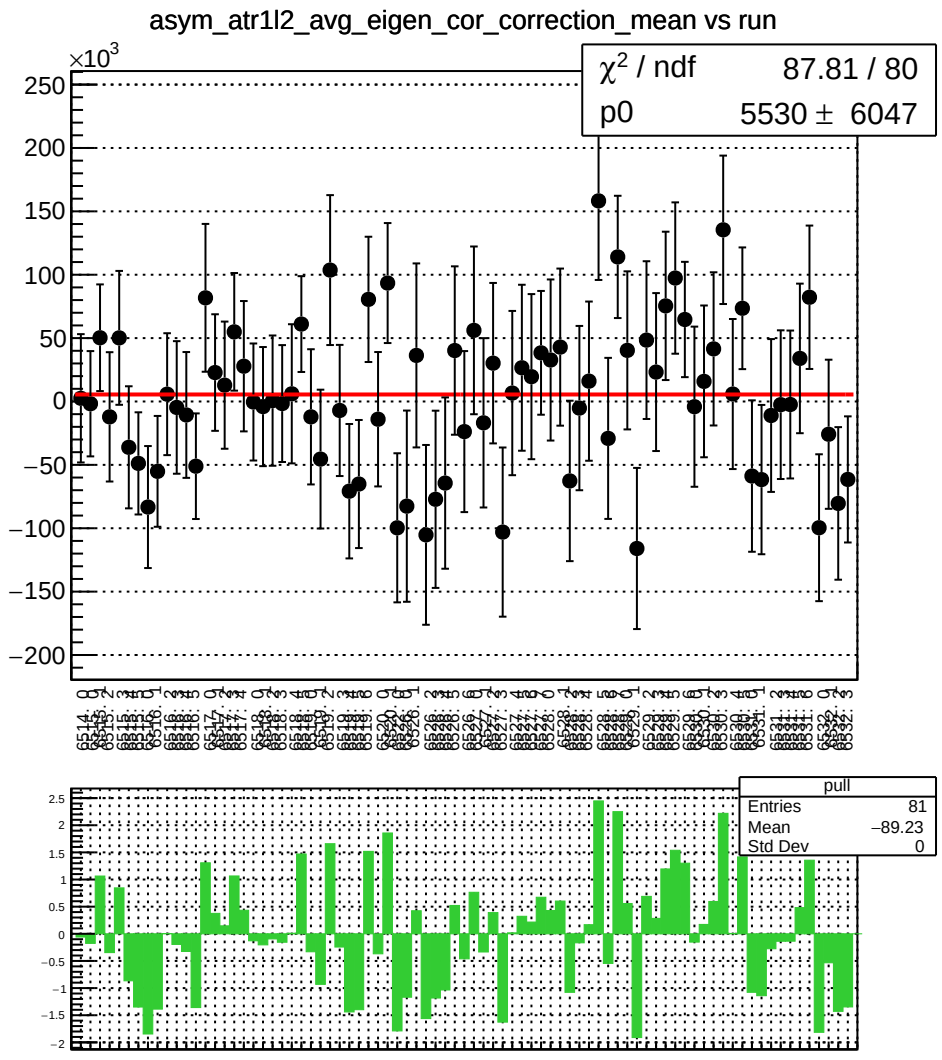

pull1D
Entries 81
Mean −0.0161
Std Dev 1.041

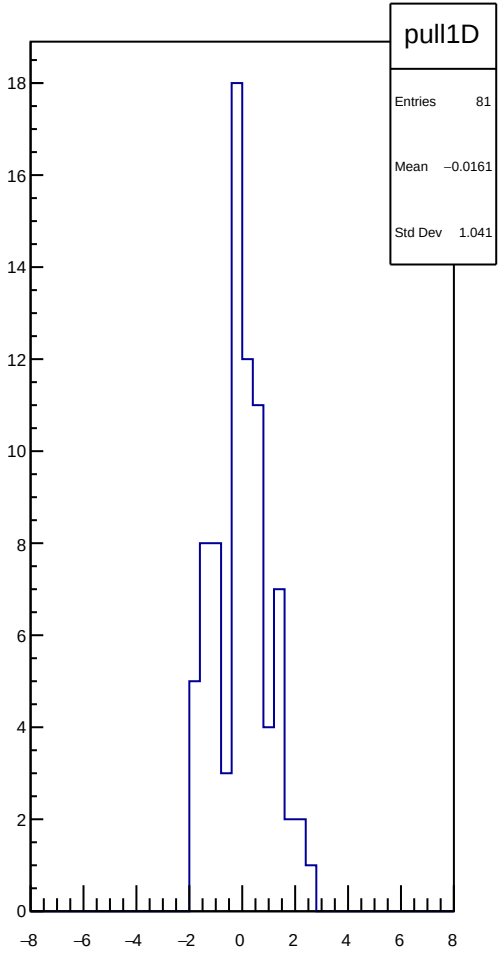

asym_atr1l2_avg_cor_correction_rms vs run
χ² / ndf 2.794e+04 / 80
p0 5294 ± 4.276
7500
7000
6500
6000
5500
5000
4500
4000

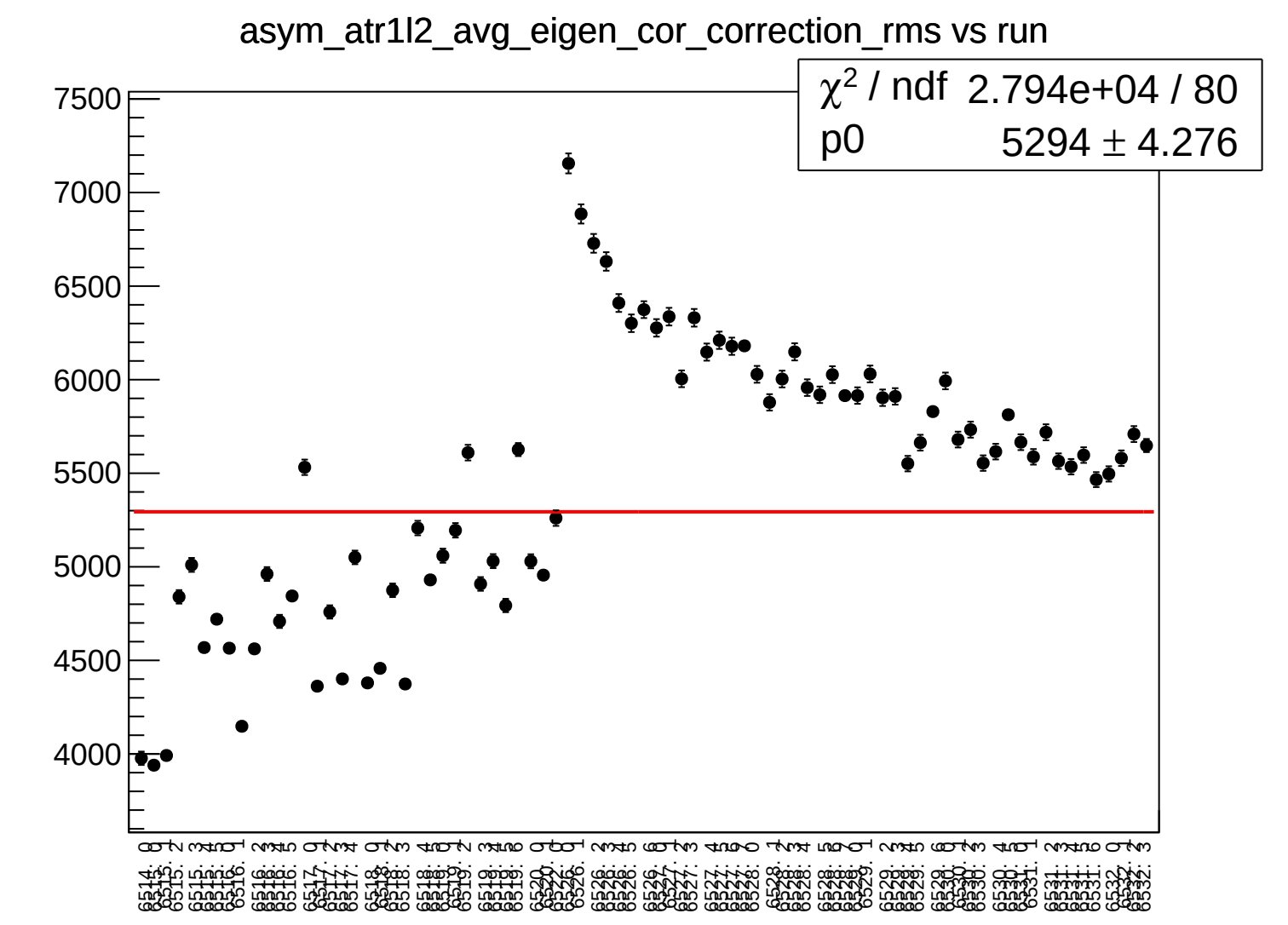

eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 72.88 / 80
p0 −225.5 ± 2159
pull
Entries 81
Mean −638.1
Std Dev 0

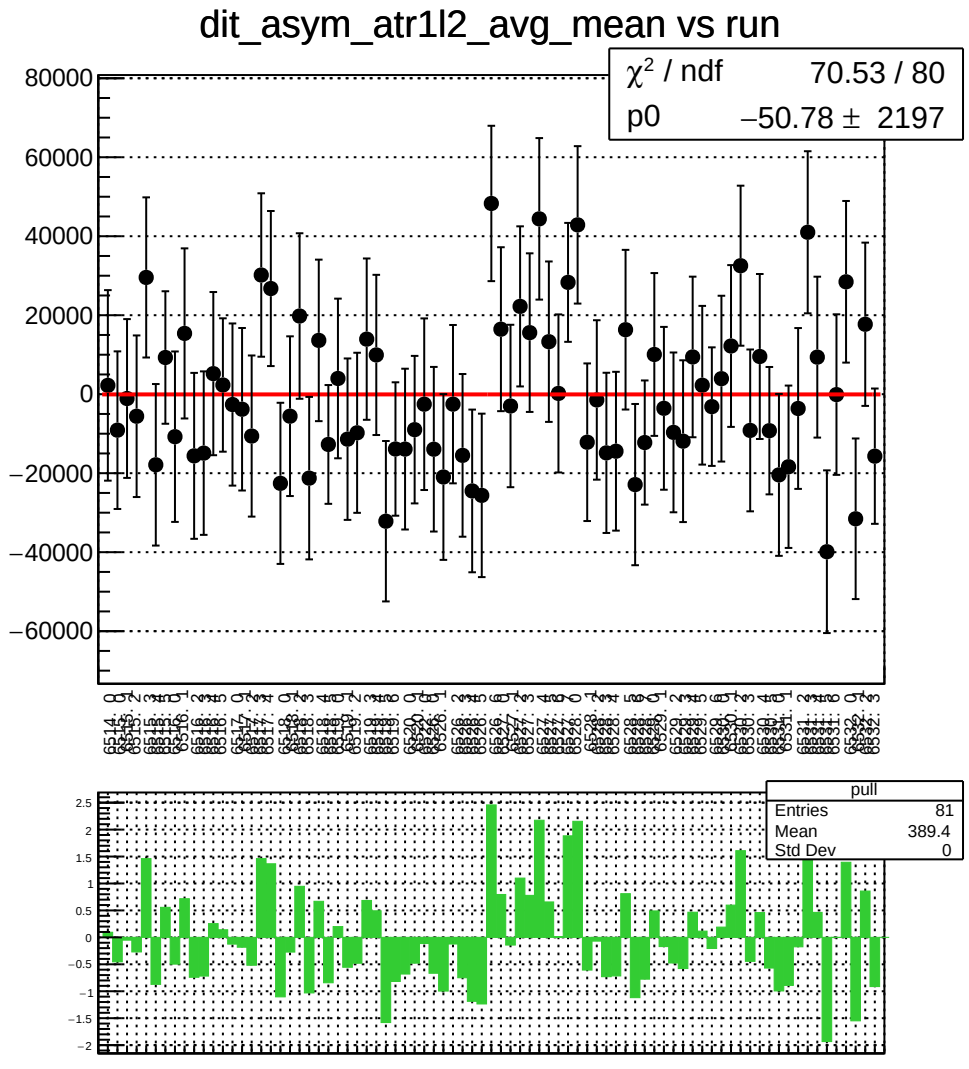

pull1D
Entries 81
Mean 0.002574
Std Dev 0.9485

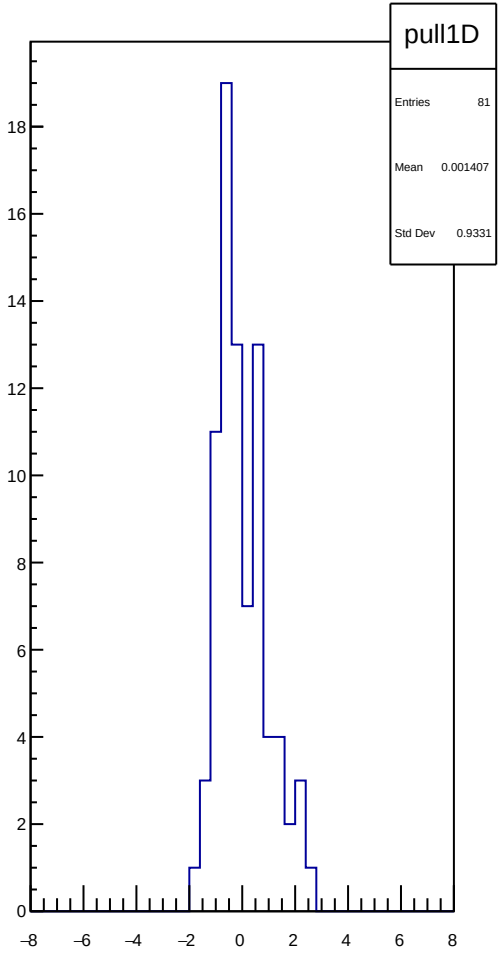

eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 131.3 / 80
p0 1907 ± 1.527
1980
1960
1940
1920
1900
1880
1860
1840

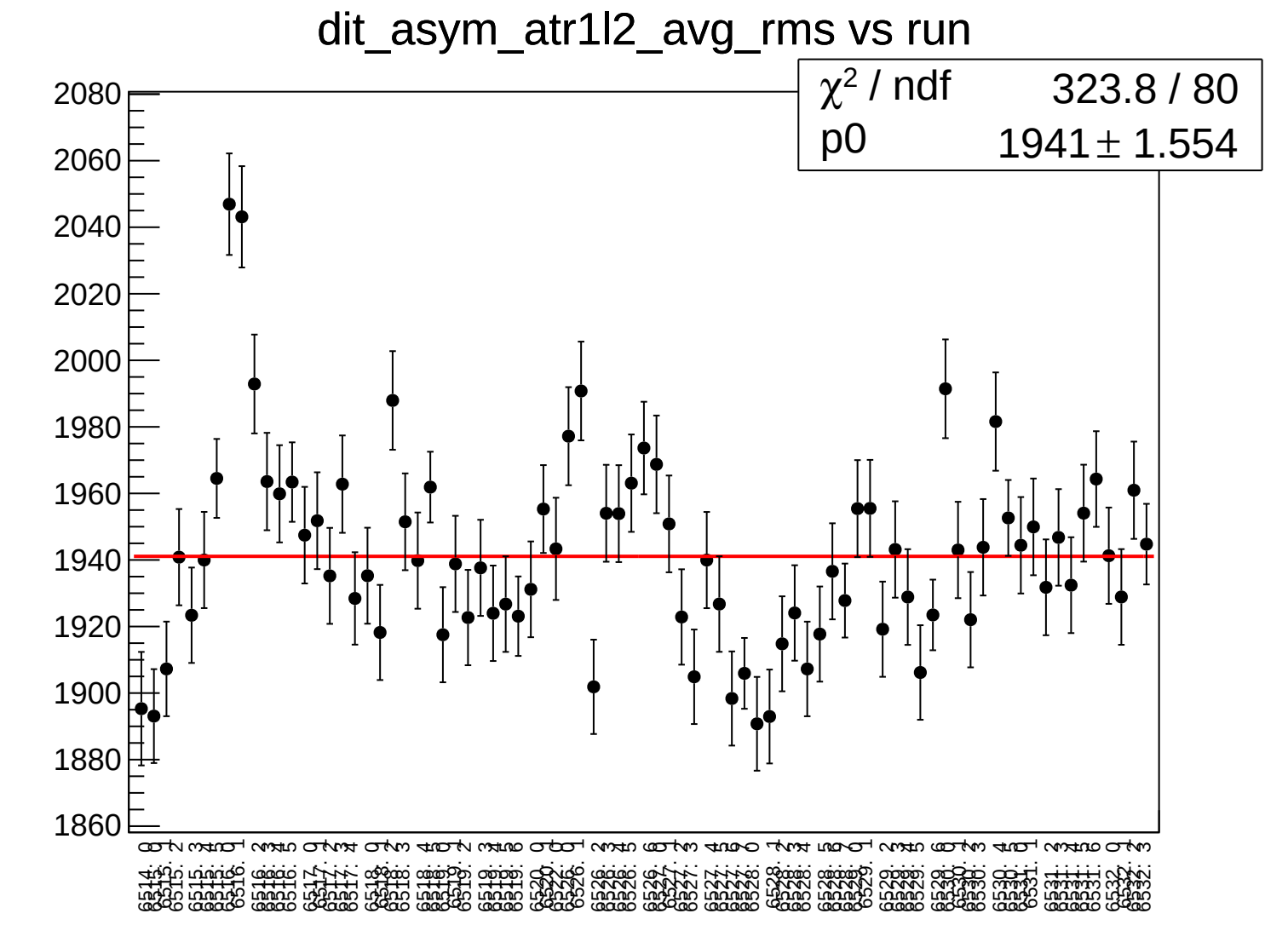

asym_atr1l2_avg_eigen_cor_correction_mean vs run
χ² / ndf 87.81 / 80
p0 5530 ± 6047
pull
Entries 81
Mean −89.23
Std Dev 0

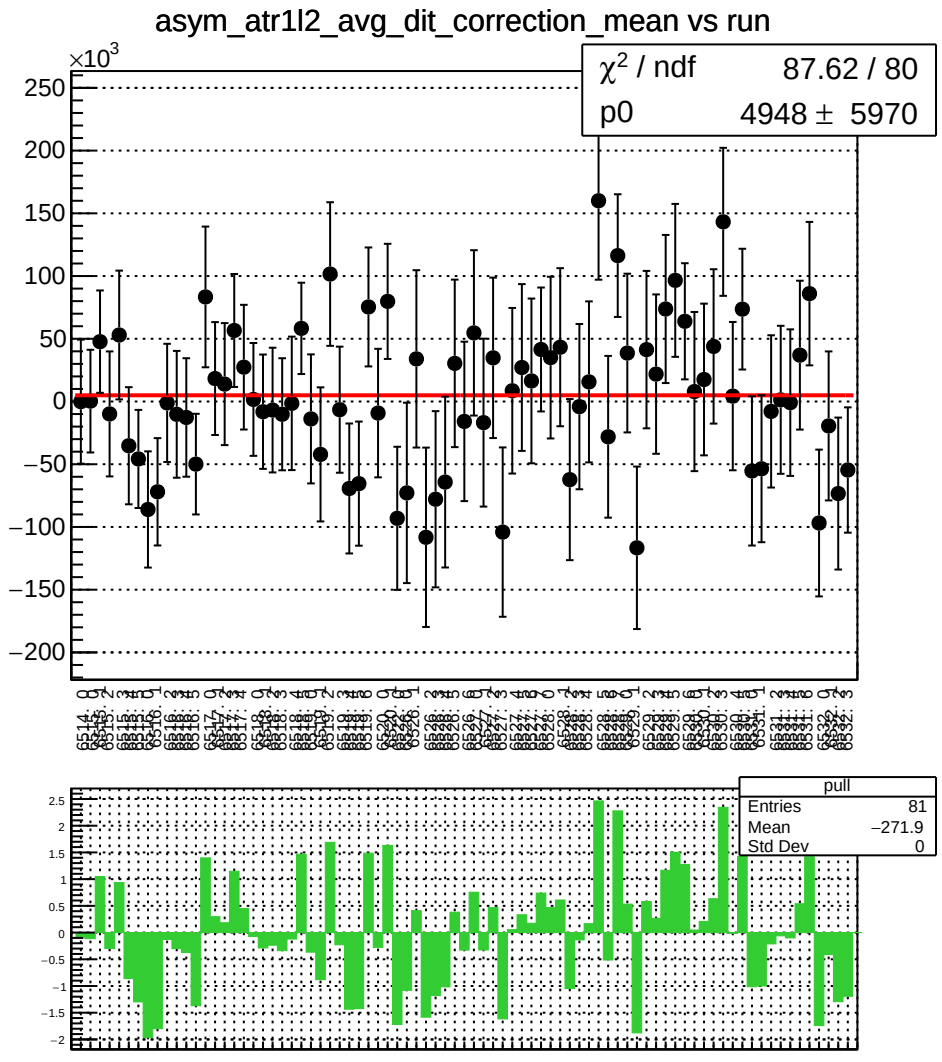

pull1D
Entries 81
Mean −0.0161
Std Dev 1.041

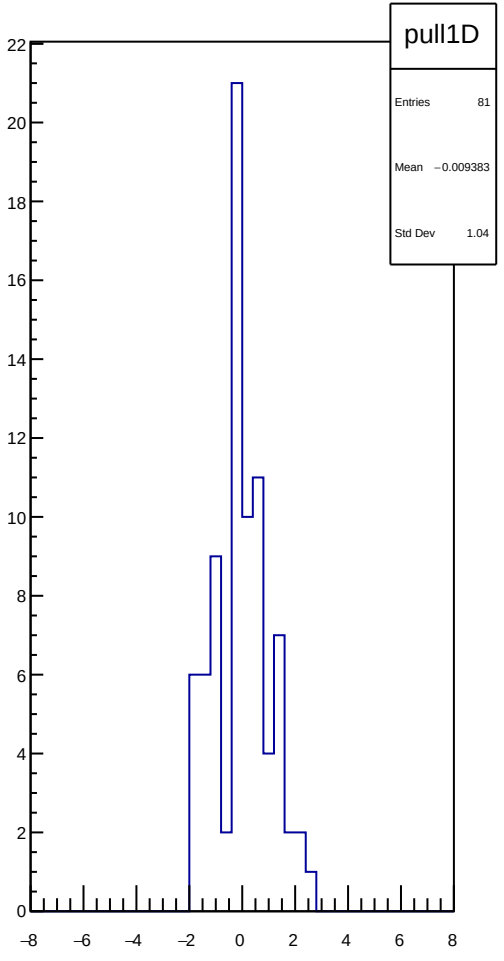

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.794e+04 / 80
p0 5294 ± 4.276
7500
7000
6500
6000
5500
5000
4500
4000

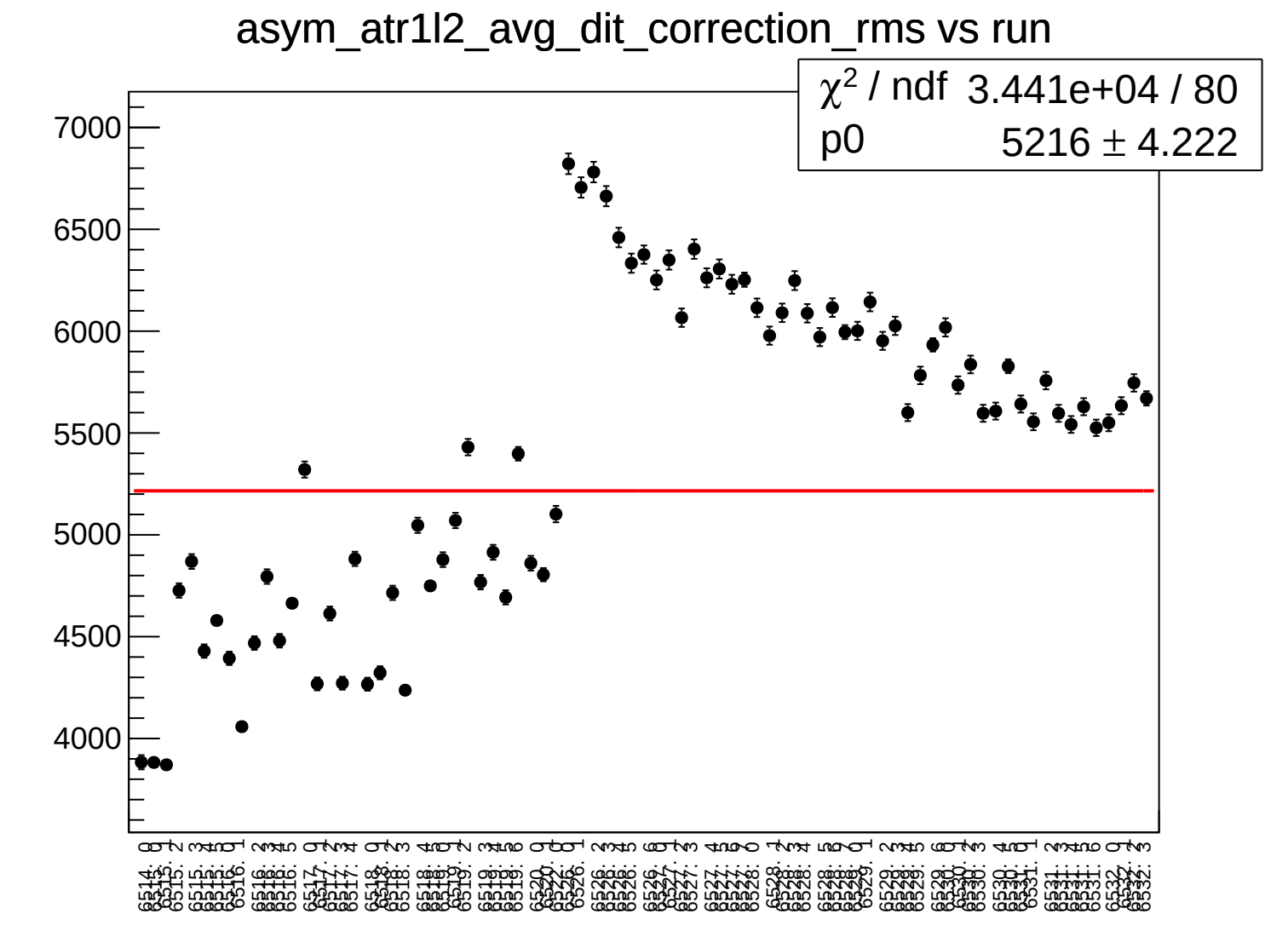

dit_asym_atr1l2_avg_mean vs run
χ² / ndf 70.53 / 80
p0 −50.78 ± 2197
pull
Entries 81
Mean 389.4
Std Dev 0

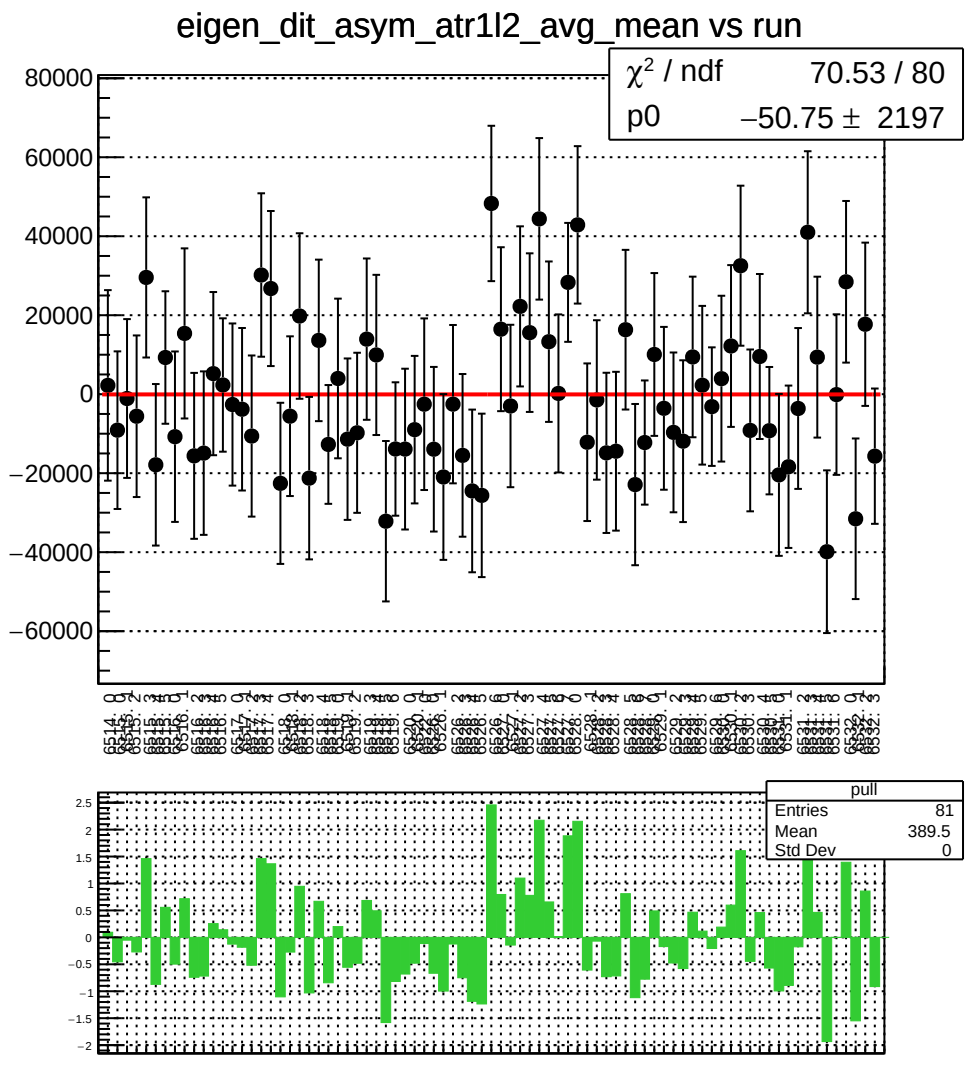

pull1D
Entries 81
Mean 0.001407
Std Dev 0.9331

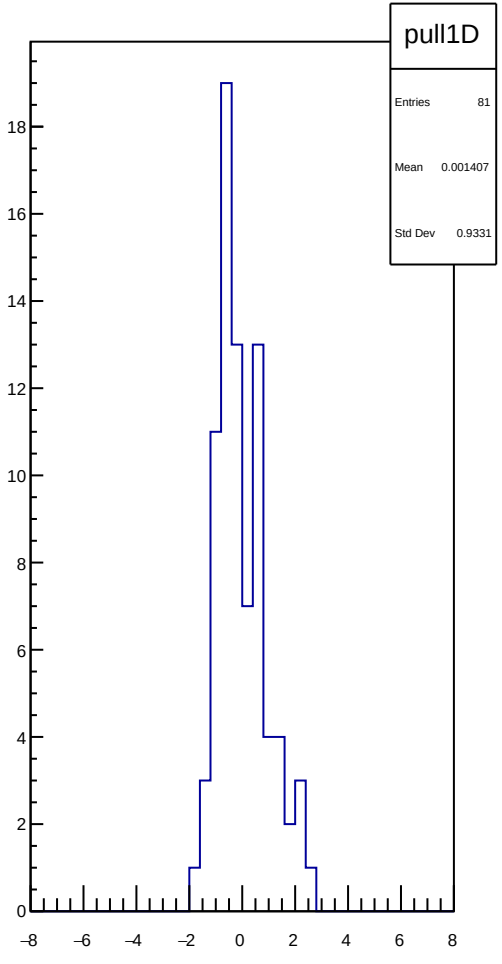

dit_asym_atr1l2_avg_rms vs run
χ² / ndf 323.8 / 80
p0 1941 ± 1.554
2080
2060
2040
2020
2000
1980
1960
1940
1920
1900
1880
1860

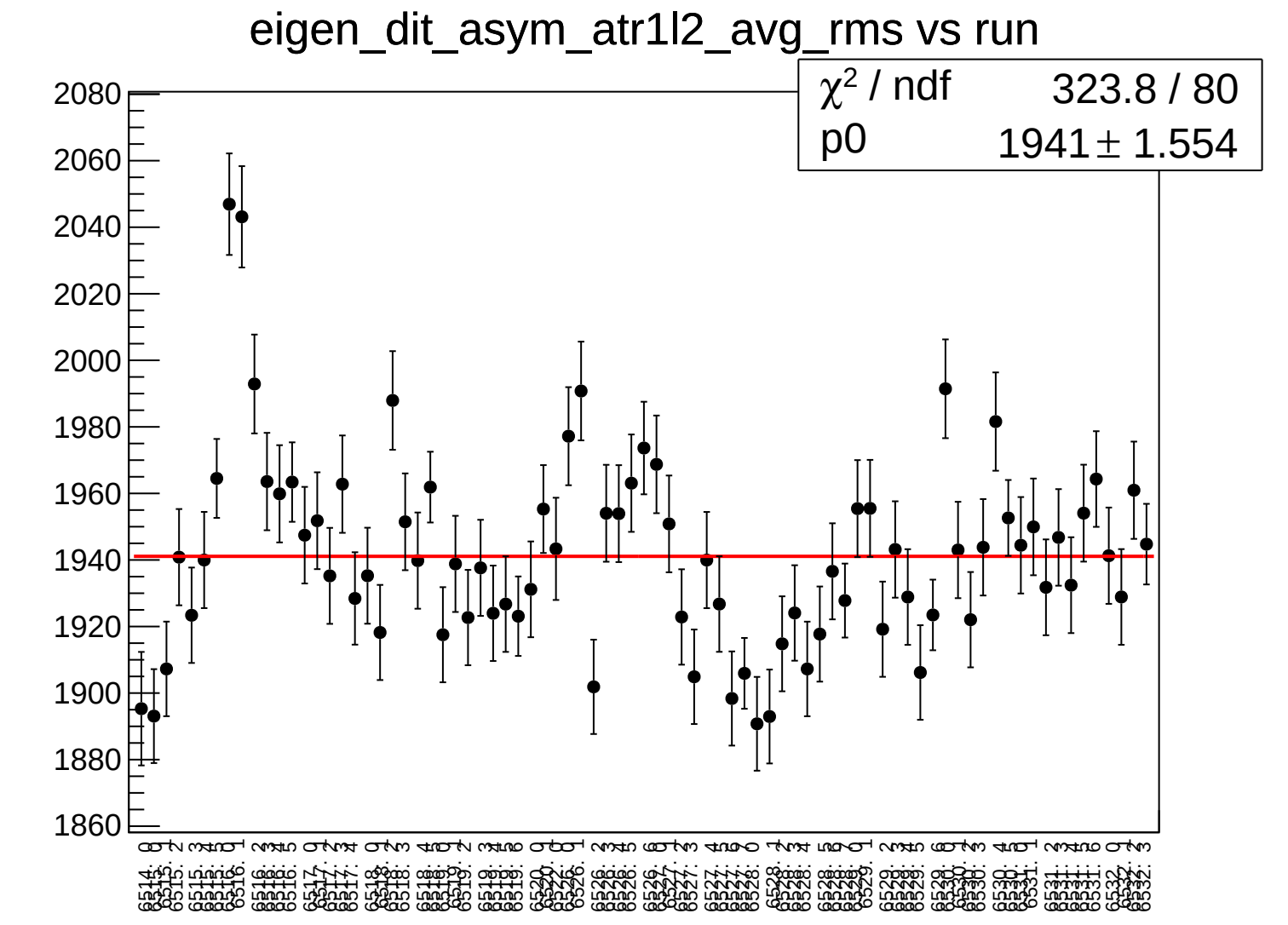

asym_atr1l2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 87.62 / 80
p0 4948 ± 5970
pull
Entries 81
Mean −271.9
Std Dev 0

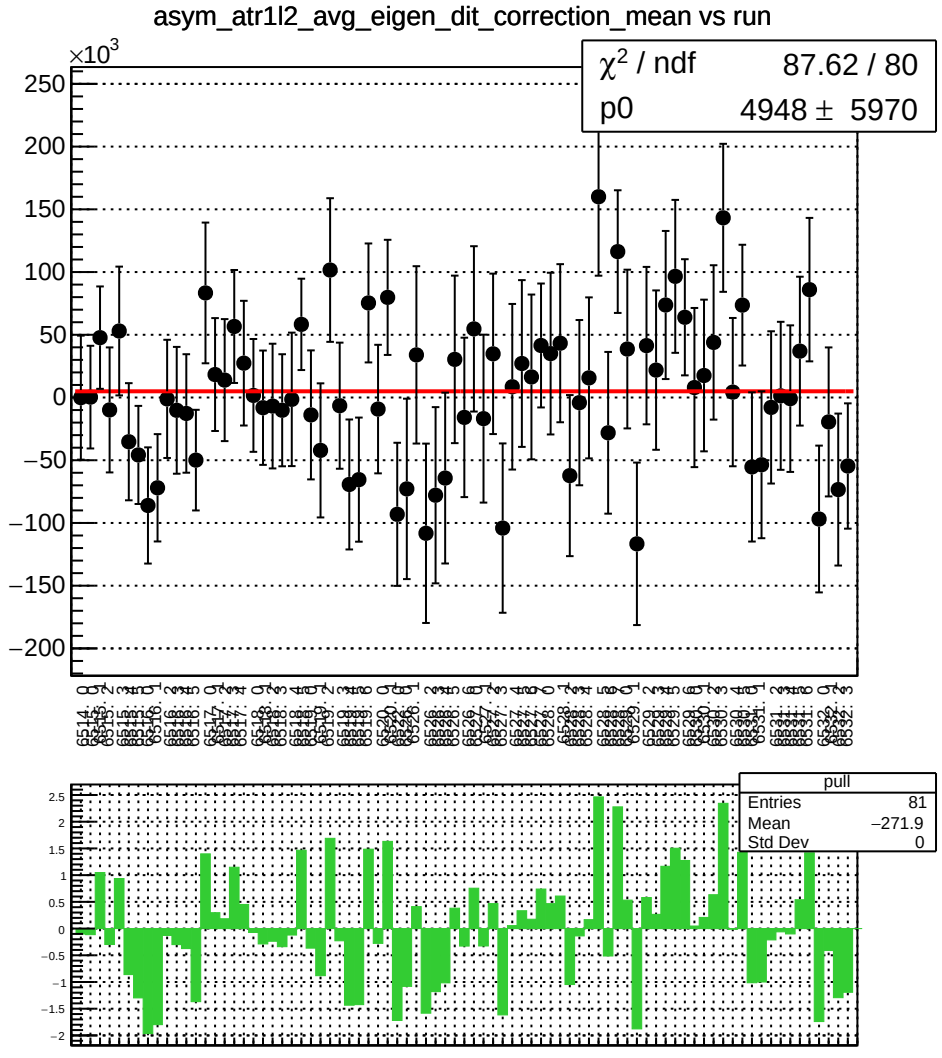

pull1D
Entries 81
Mean −0.009383
Std Dev 1.04

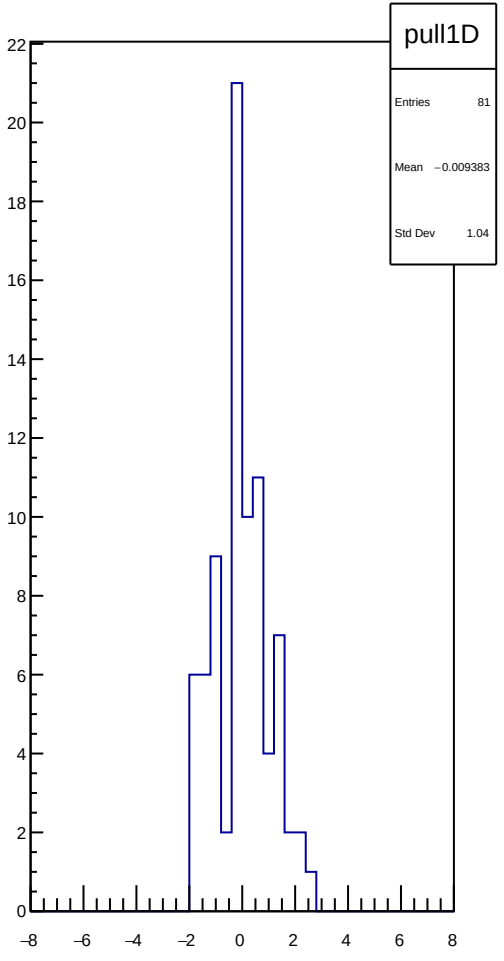

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 3.441e+04 / 80
p0 5216 ± 4.222
7000
6500
6000
5500
5000
4500
4000

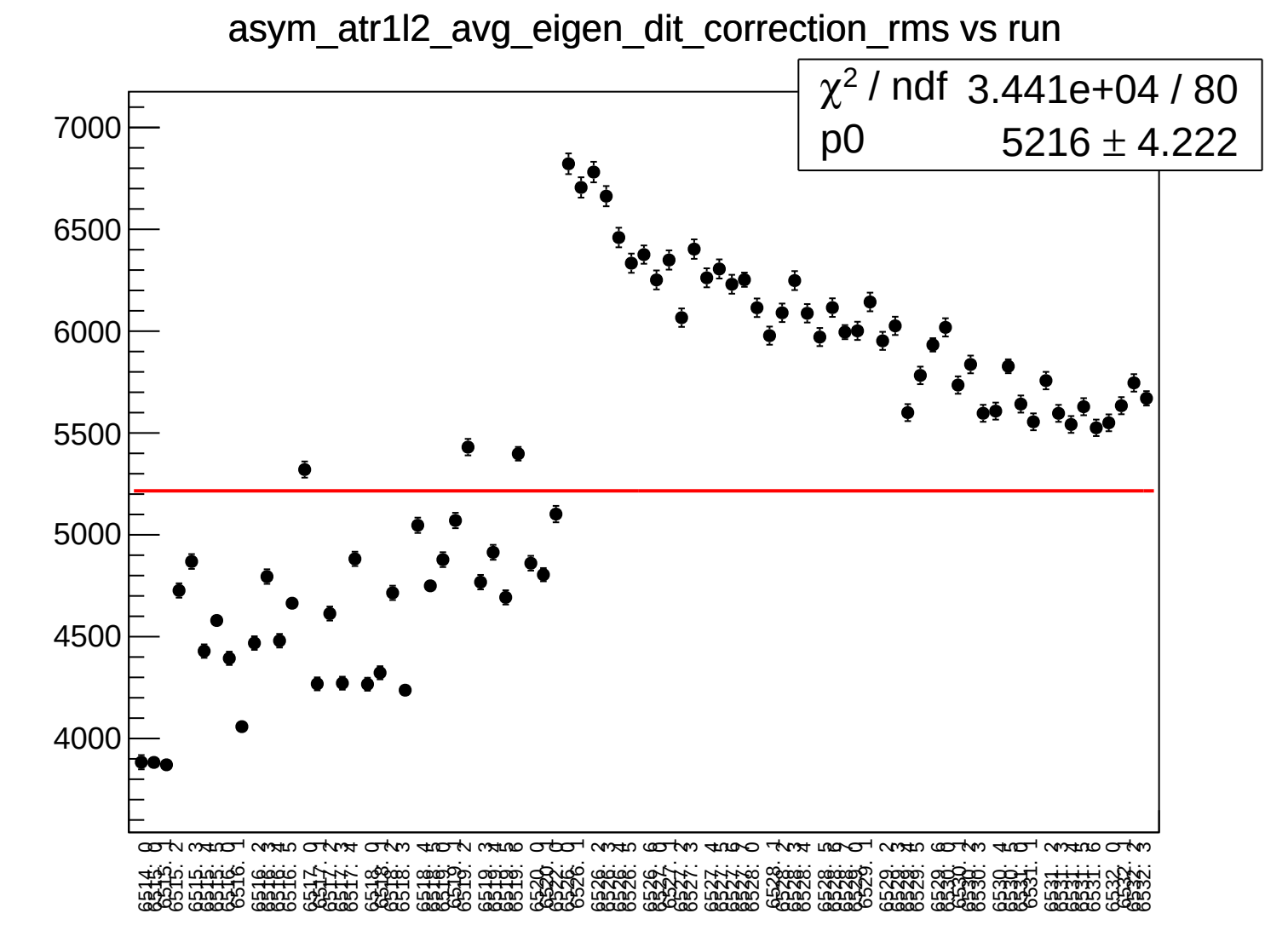

eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 70.53 / 80
p0 −50.75 ± 2197
pull
Entries 81
Mean 389.5
Std Dev 0

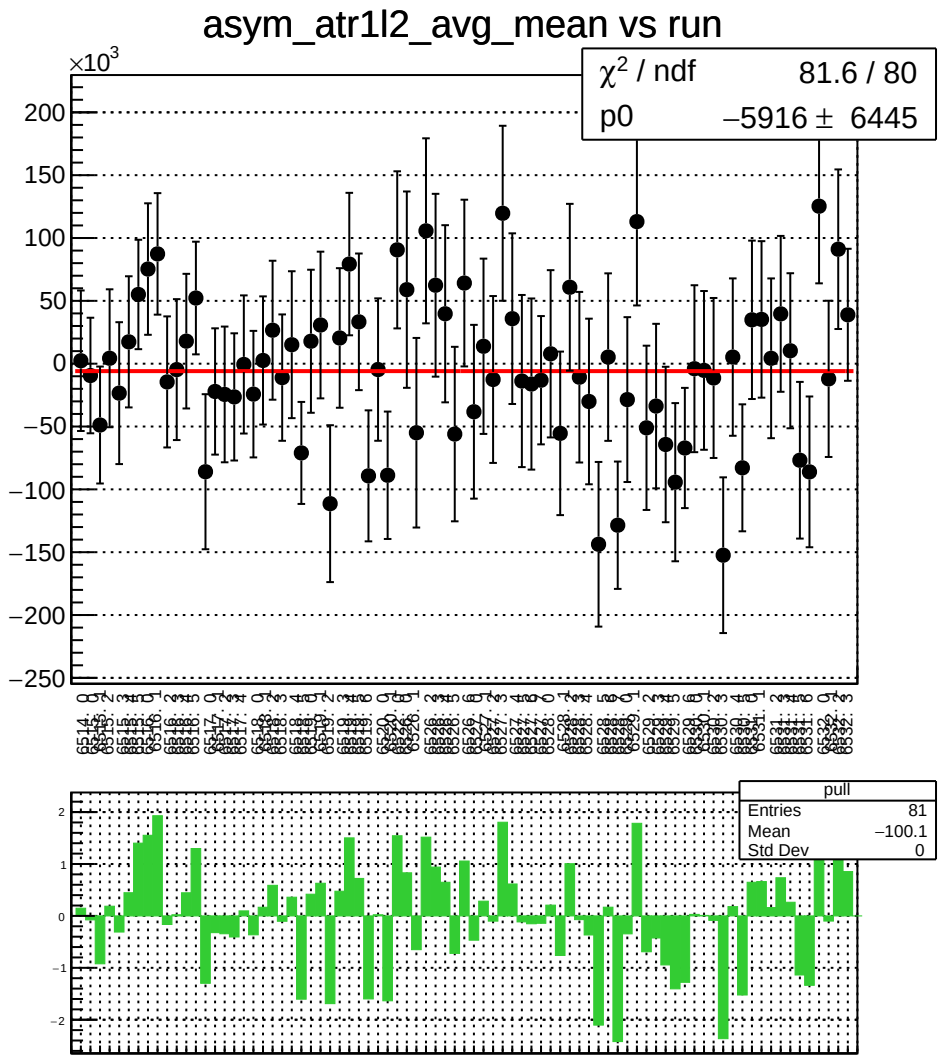

pull1D
Entries 81
Mean 0.001407
Std Dev 0.9331

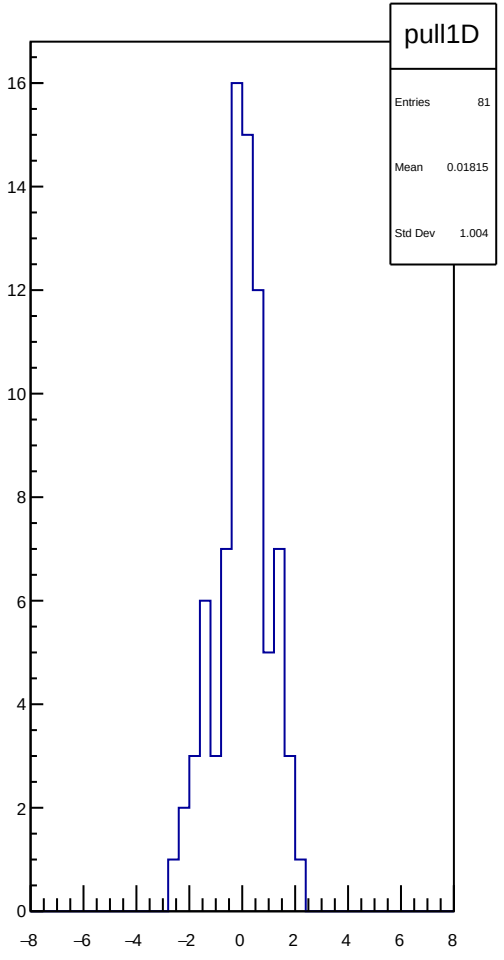

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 323.8 / 80
p0 1941 ± 1.554
2080
2060
2040
2020
2000
1980
1960
1940
1920
1900
1880
1860

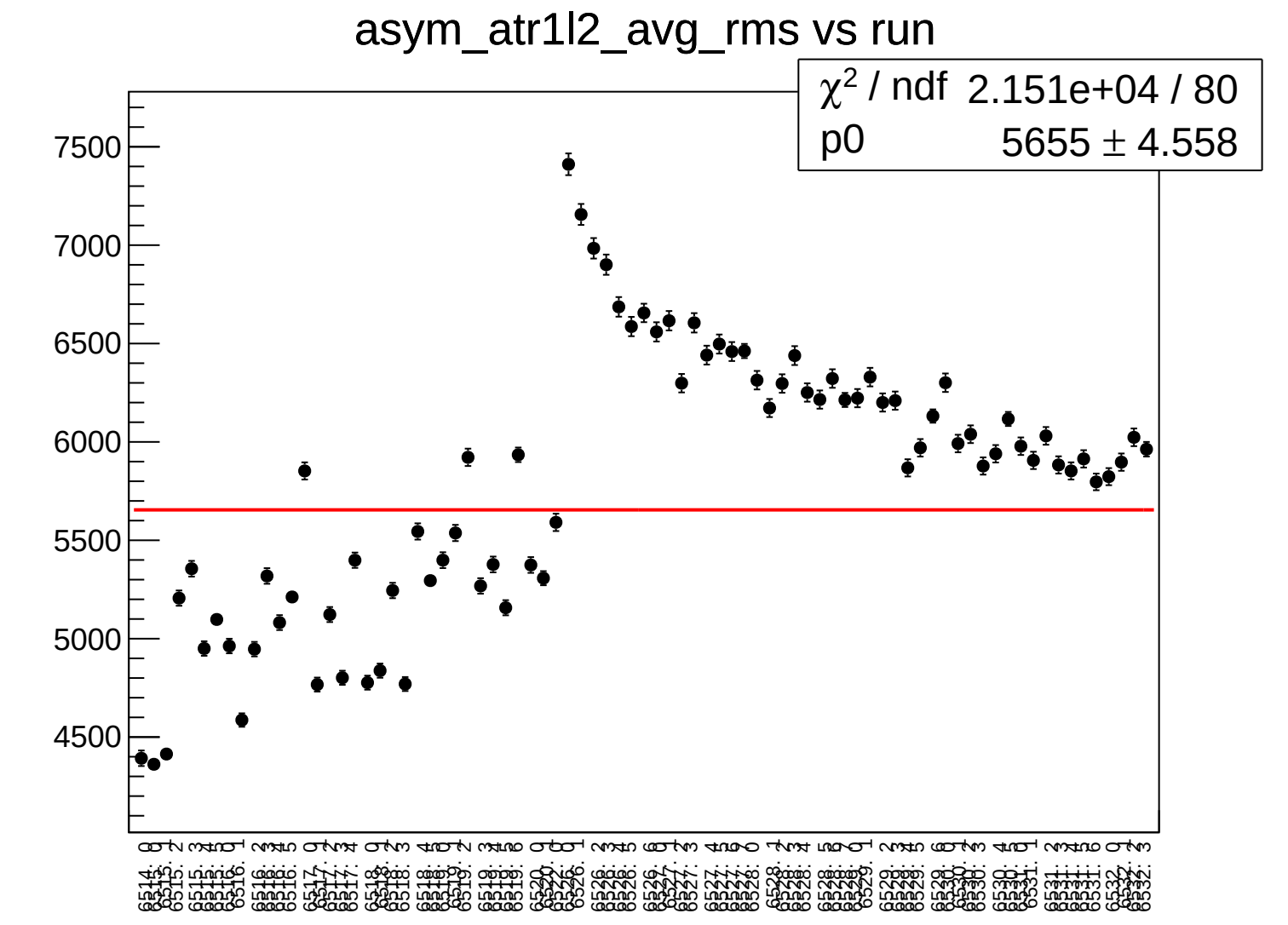

asym_atr1l2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 87.62 / 80
p0 4948 ± 5970
pull
Entries 81
Mean −271.9
Std Dev 0

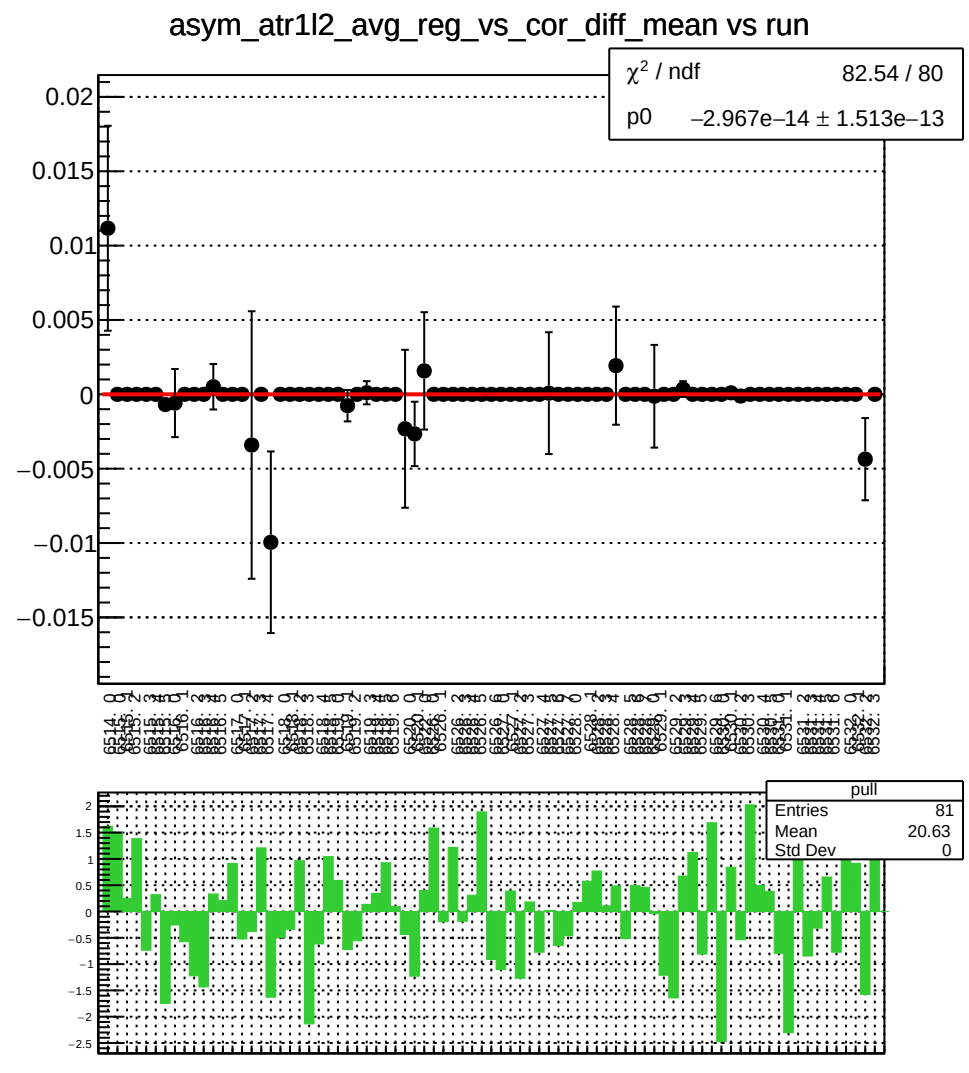

pull1D
Entries 81
Mean −0.009383
Std Dev 1.04

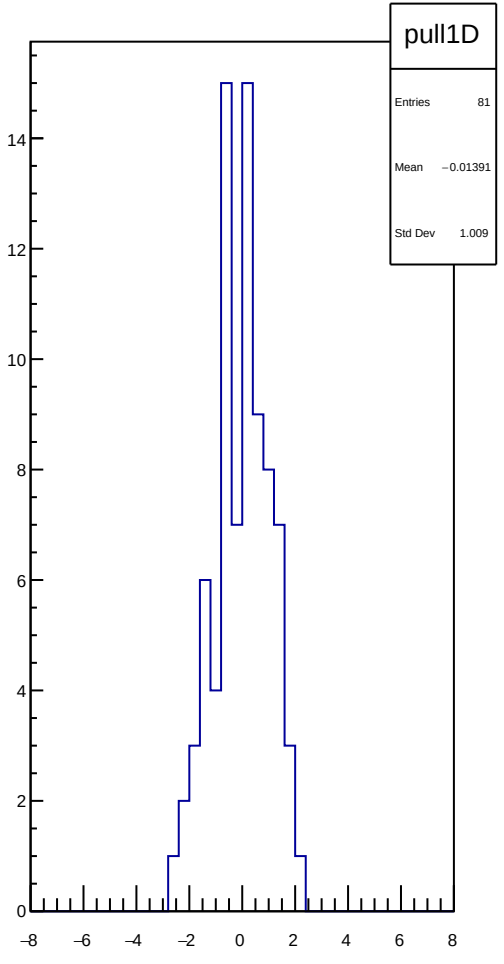

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.441e+04 / 80
p0 5216 ± 4.222
7000
6500
6000
5500
5000
4500
4000

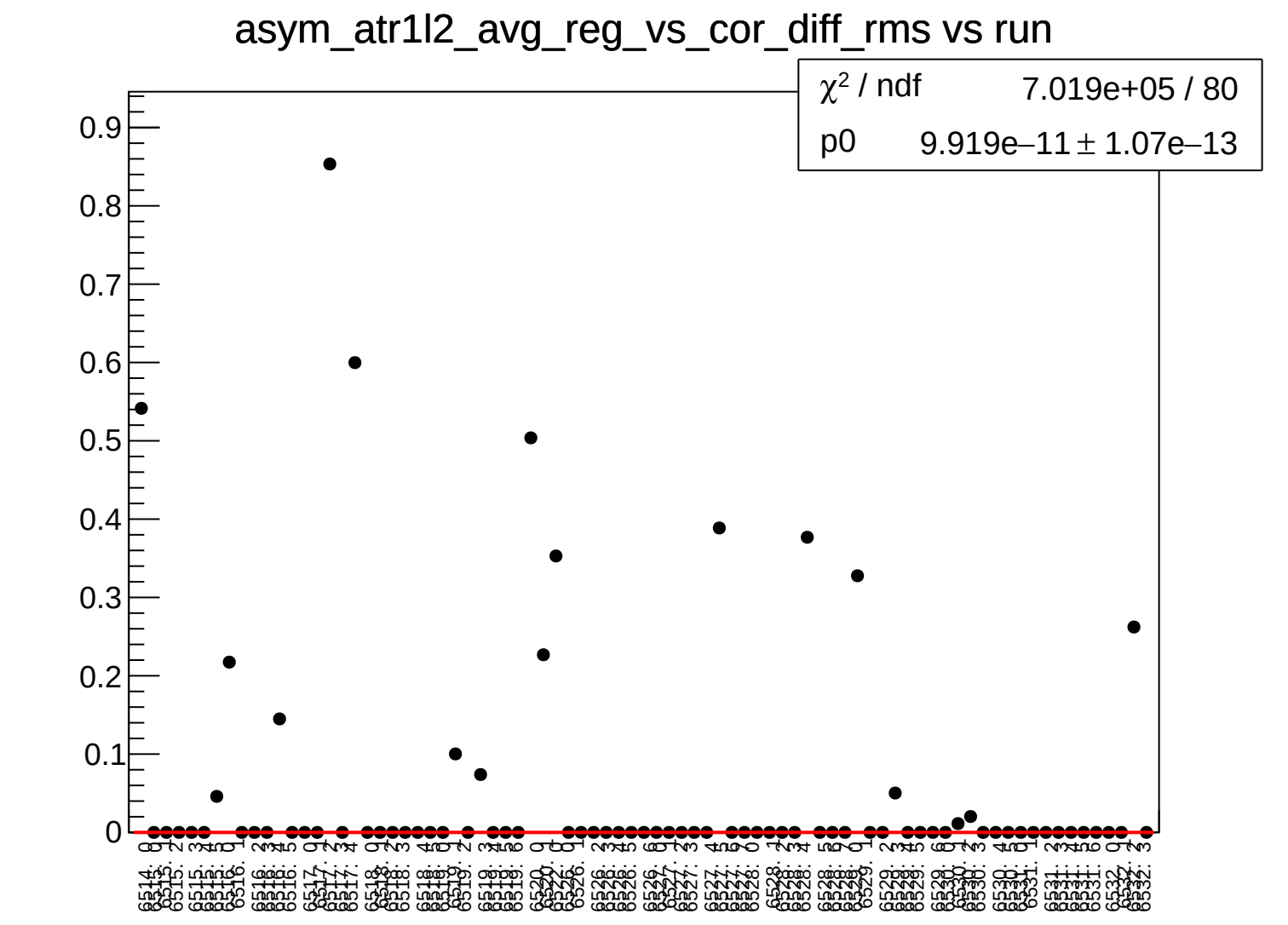

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 81.6 / 80
p0 −5916 ± 6445
pull
Entries 81
Mean −100.1
Std Dev 0

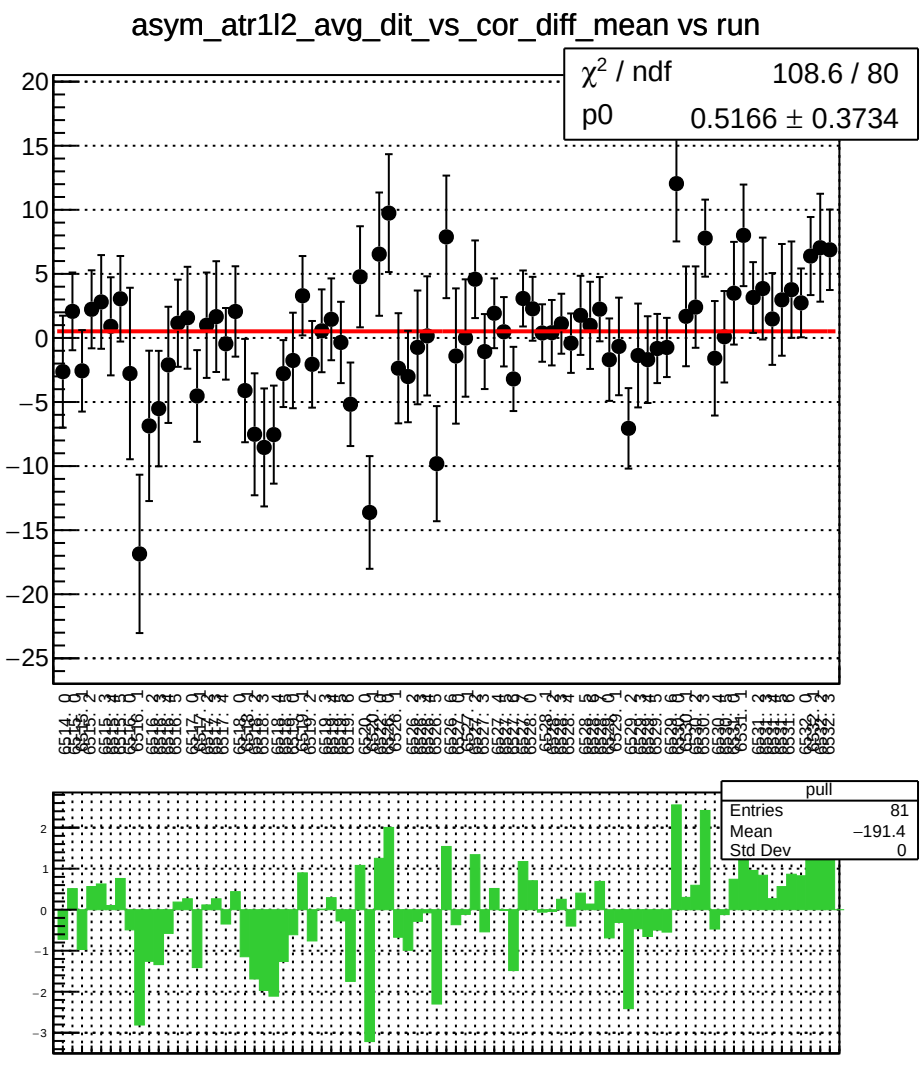

pull1D
Entries 81
Mean 0.01815
Std Dev 1.004

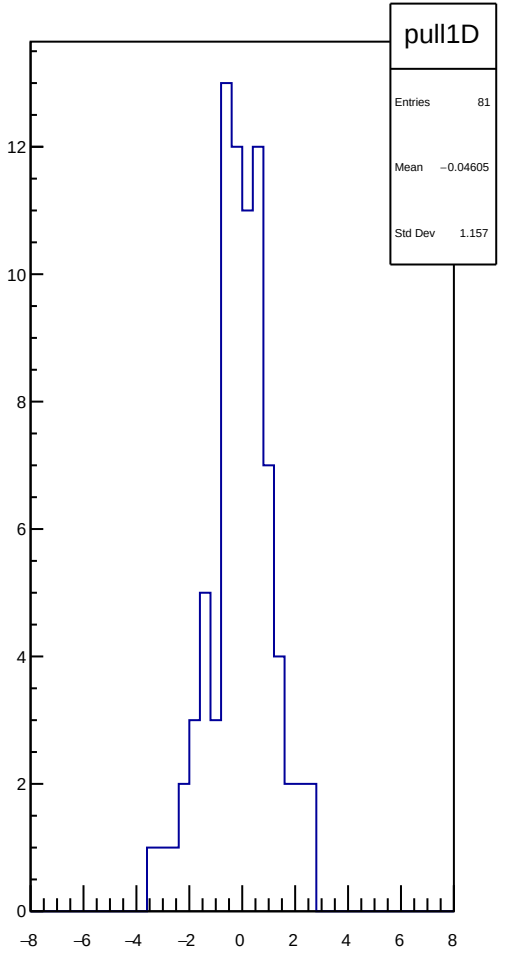

asym_atr1l2_avg_rms vs run
χ² / ndf 2.151e+04 / 80
p0 5655 ± 4.558
7500
7000
6500
6000
5500
5000
4500

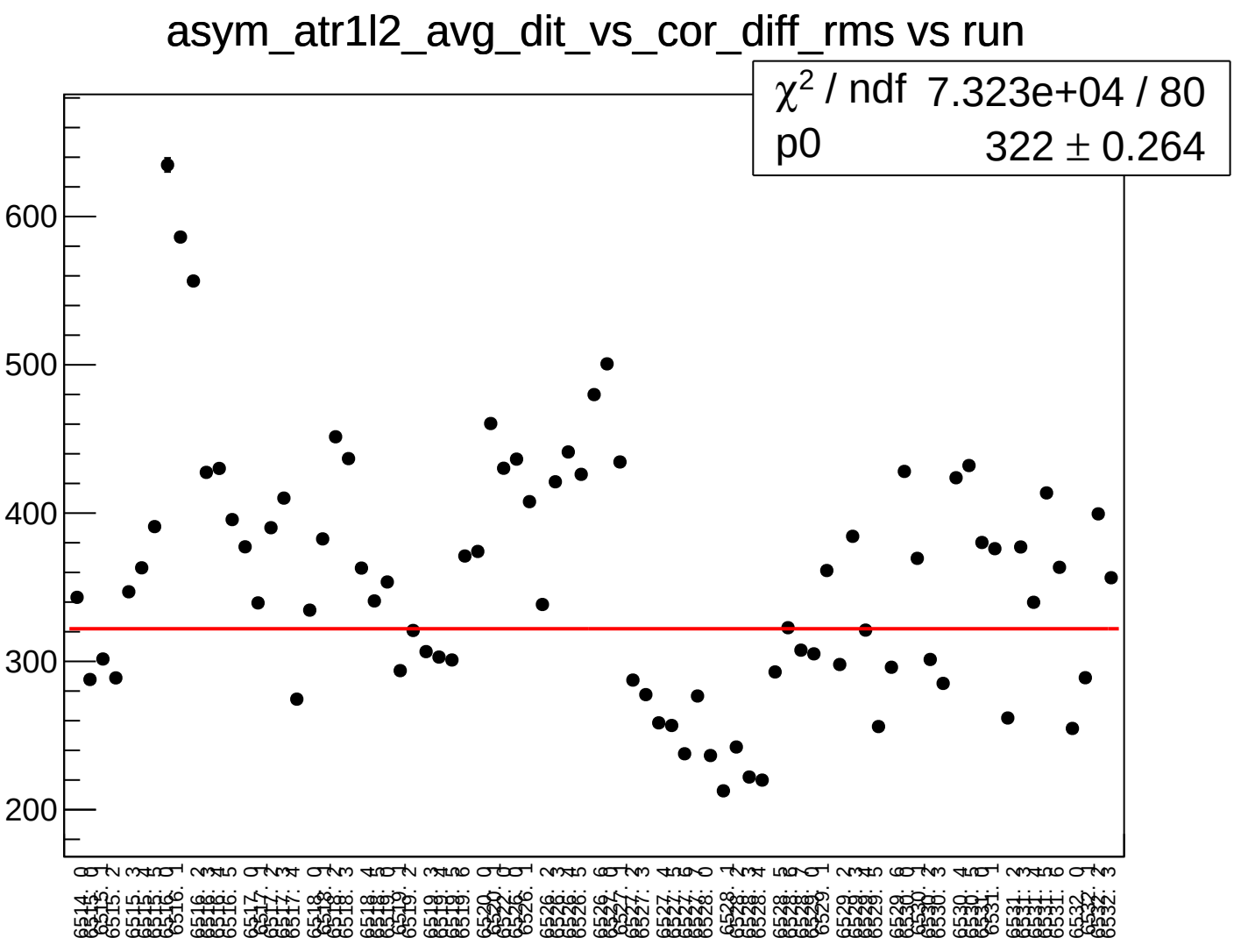

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 82.54 / 80
p0 −2.967e−14 ± 1.513e−13
pull
Entries 81
Mean 20.63
Std Dev 0

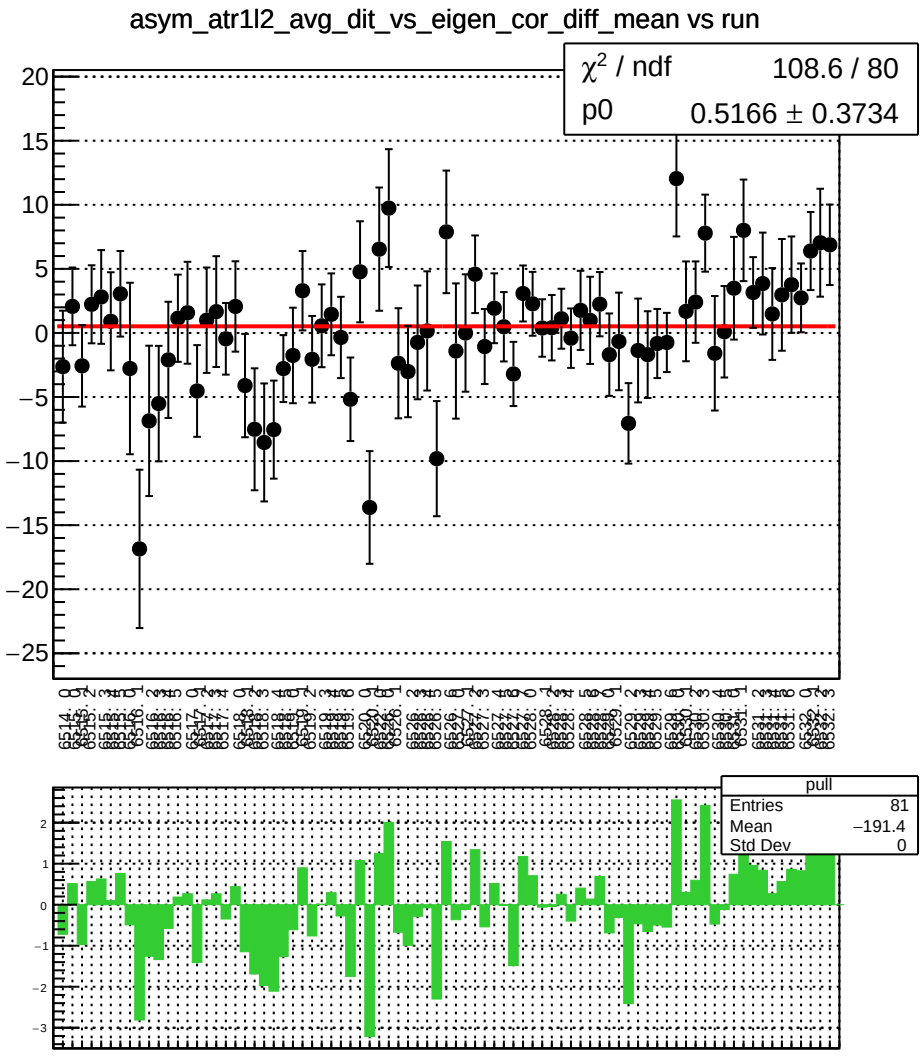

pull1D
Entries 81
Mean −0.01391
Std Dev 1.009

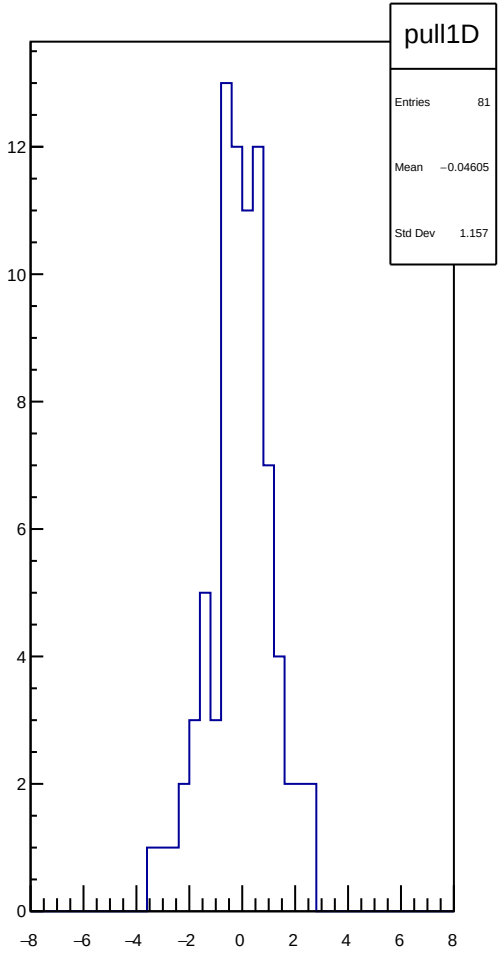

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 7.019e+05 / 80
p0 9.919e−11 ± 1.07e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

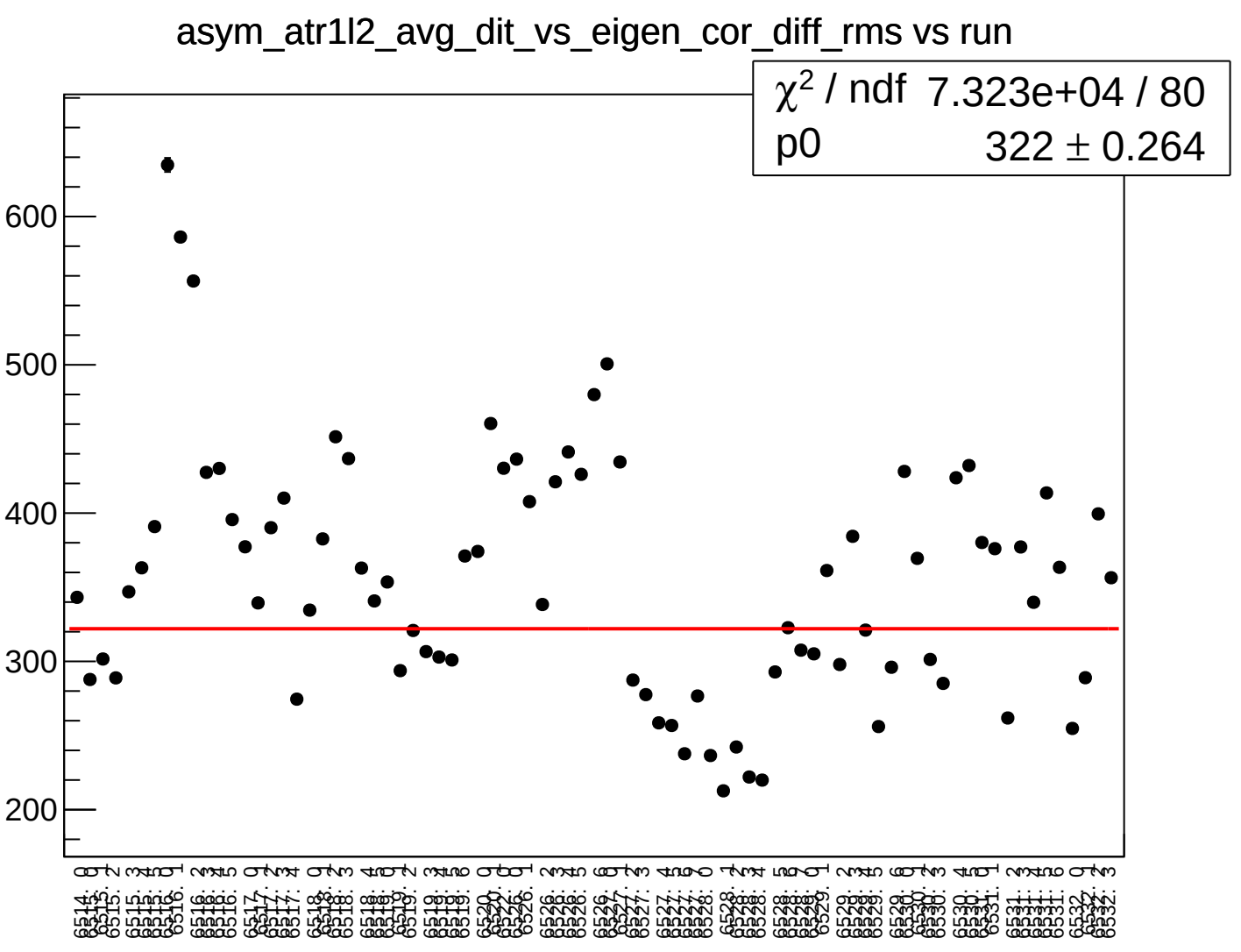

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 108.6 / 80
p0 0.5166 ± 0.3734
pull
Entries 81
Mean −191.4
Std Dev 0

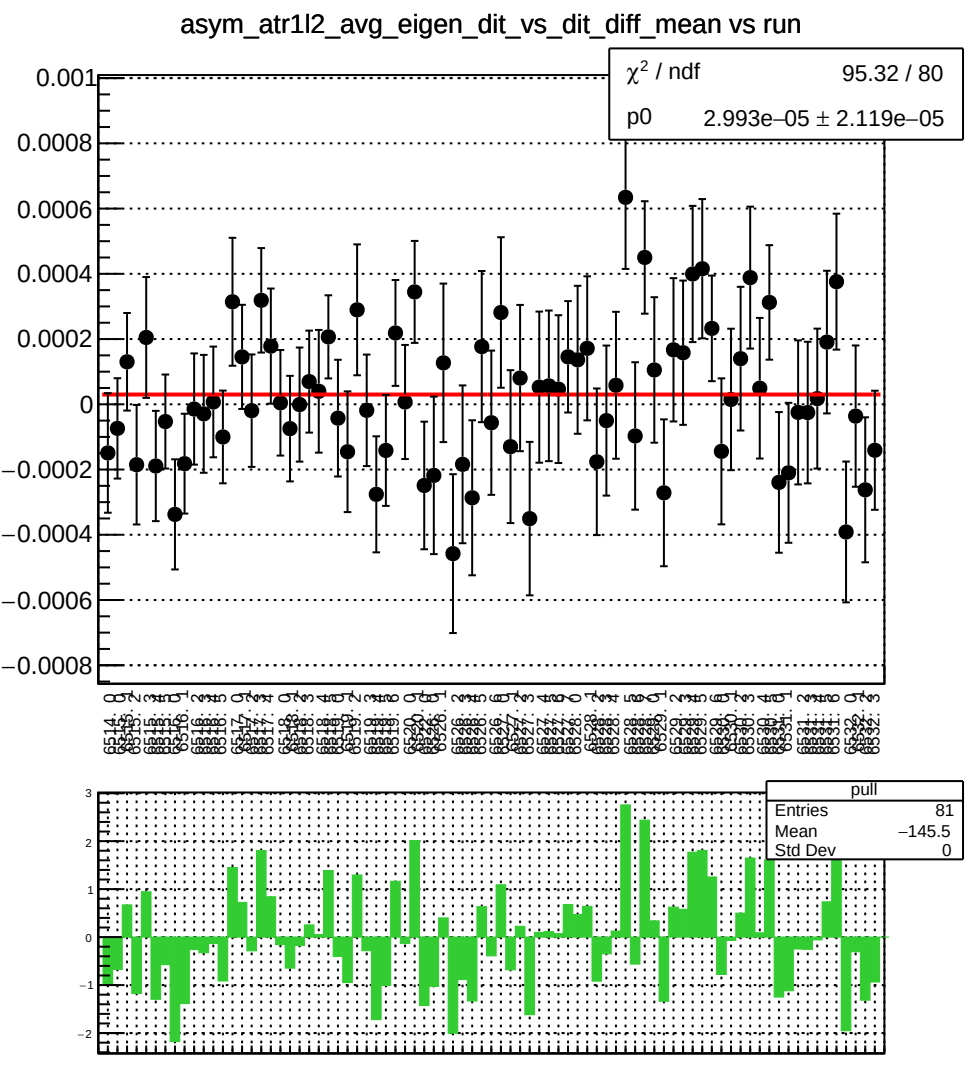

pull1D
Entries 81
Mean −0.04605
Std Dev 1.157

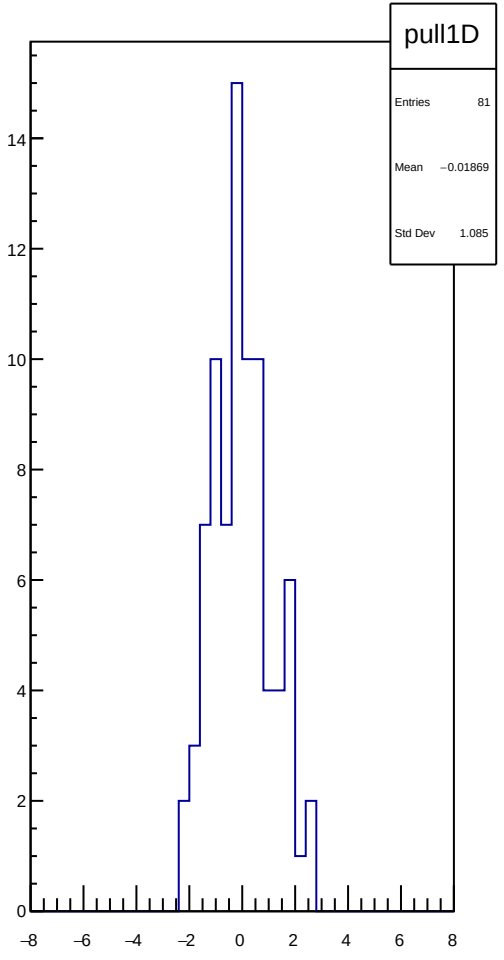

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.323e+04 / 80
p0 322 ± 0.264
600
500
400
300
200

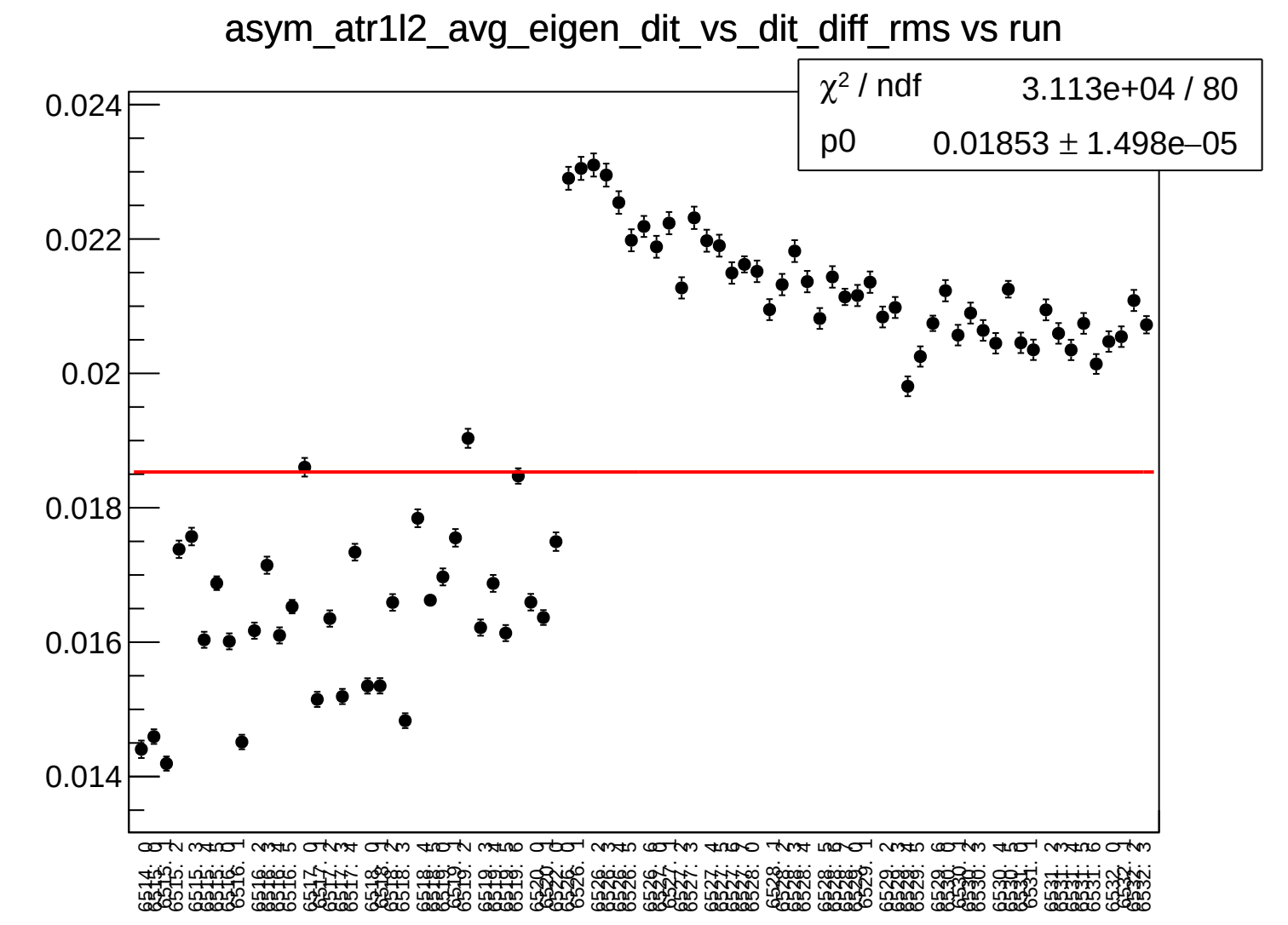

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.6 / 80
p0 0.5166 ± 0.3734
pull
Entries 81
Mean −191.4
Std Dev 0

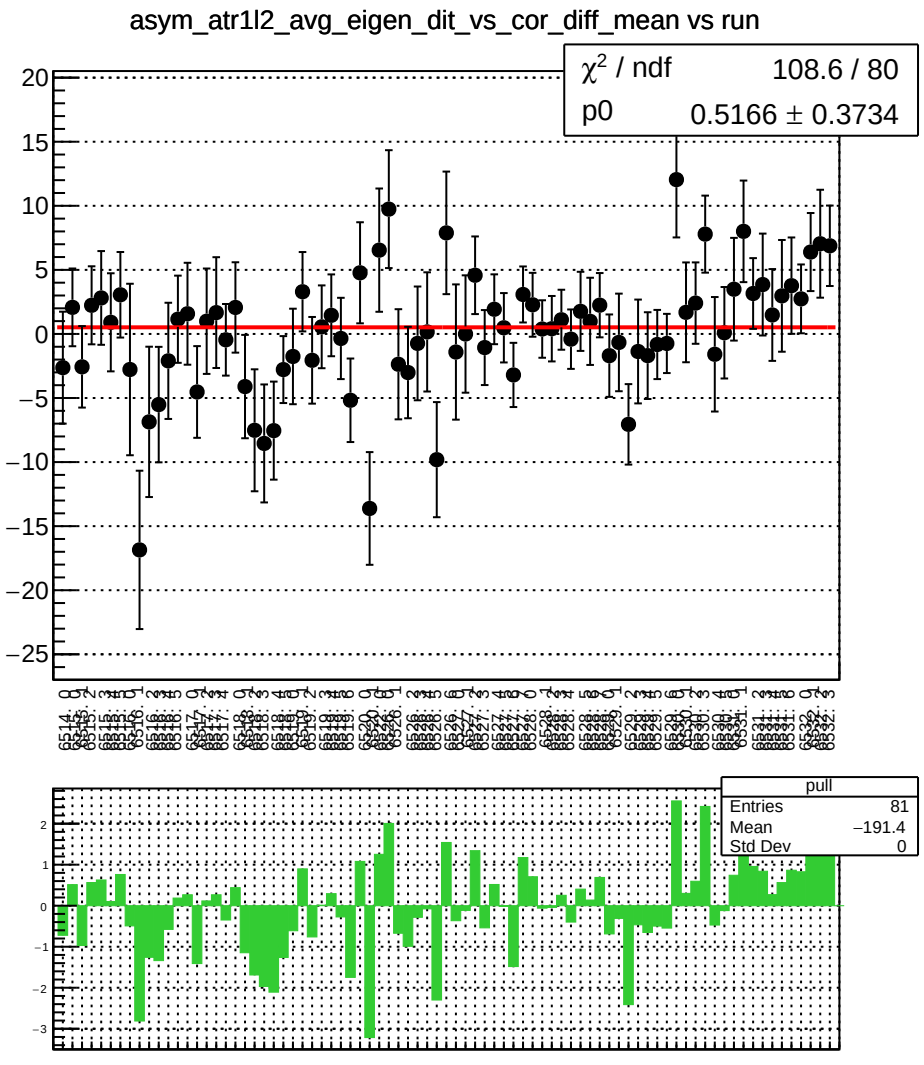

pull1D
Entries 81
Mean −0.04605
Std Dev 1.157

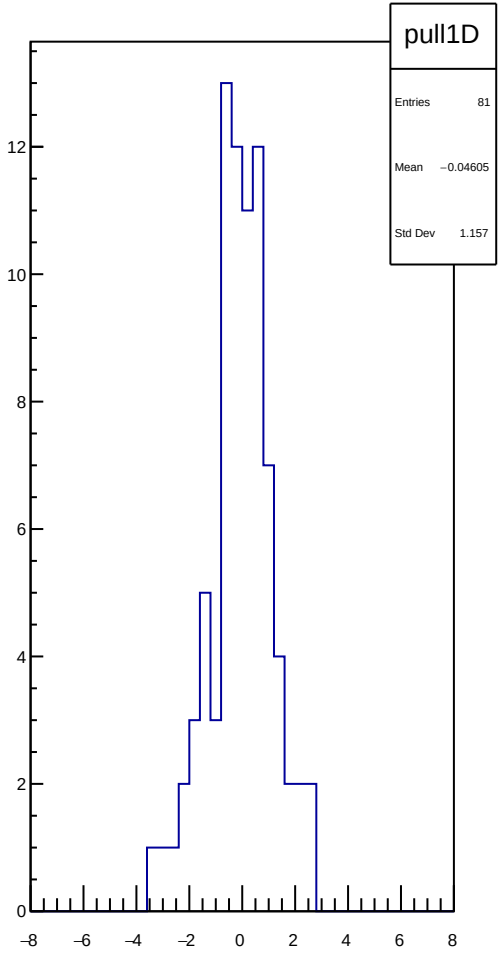

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.323e+04 / 80
p0 322 ± 0.264
600
500
400
300
200

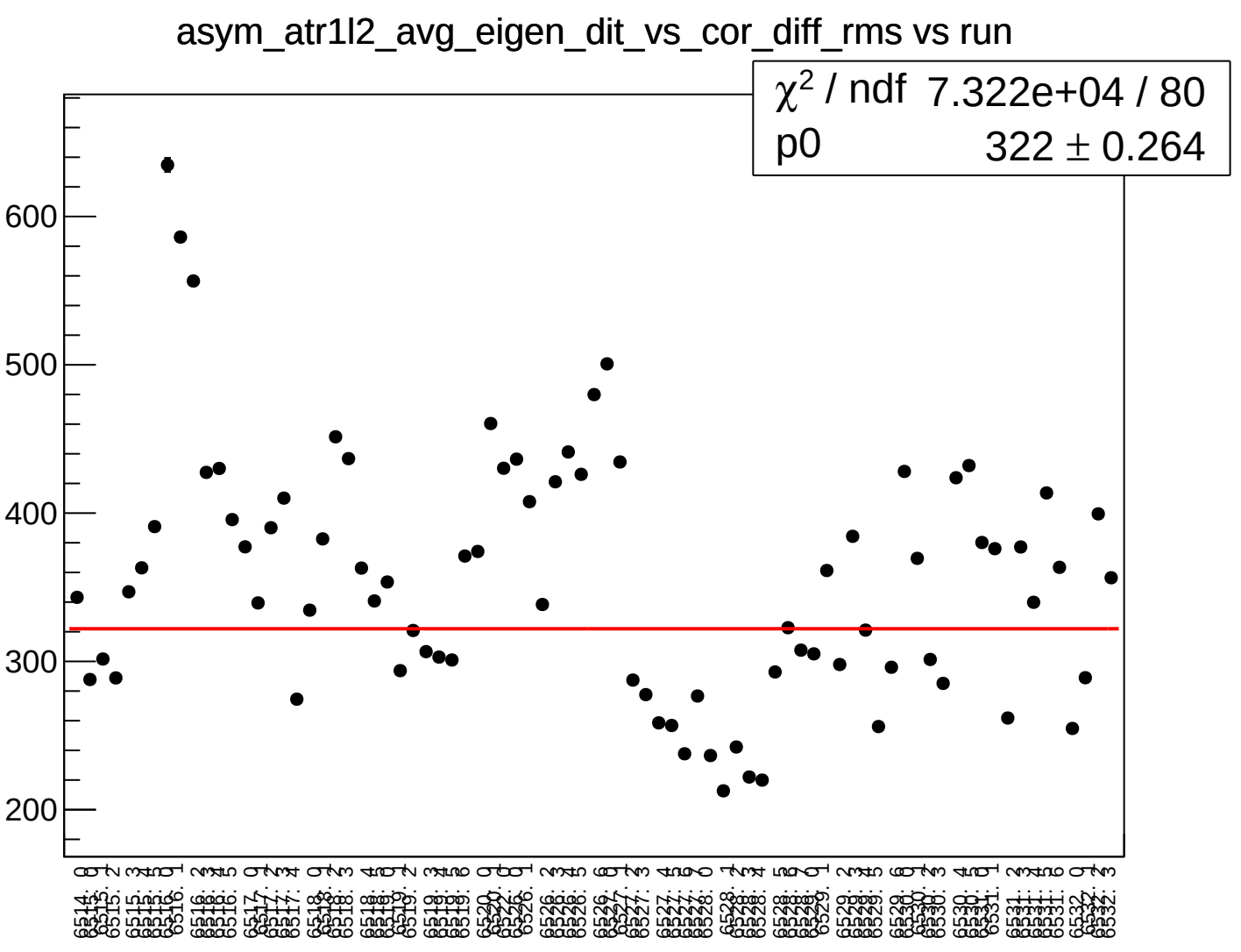

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 95.32 / 80
p0 2.993e−05 ± 2.119e−05
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 81
Mean −145.5
Std Dev 0
3
2
1
0
−1
−2

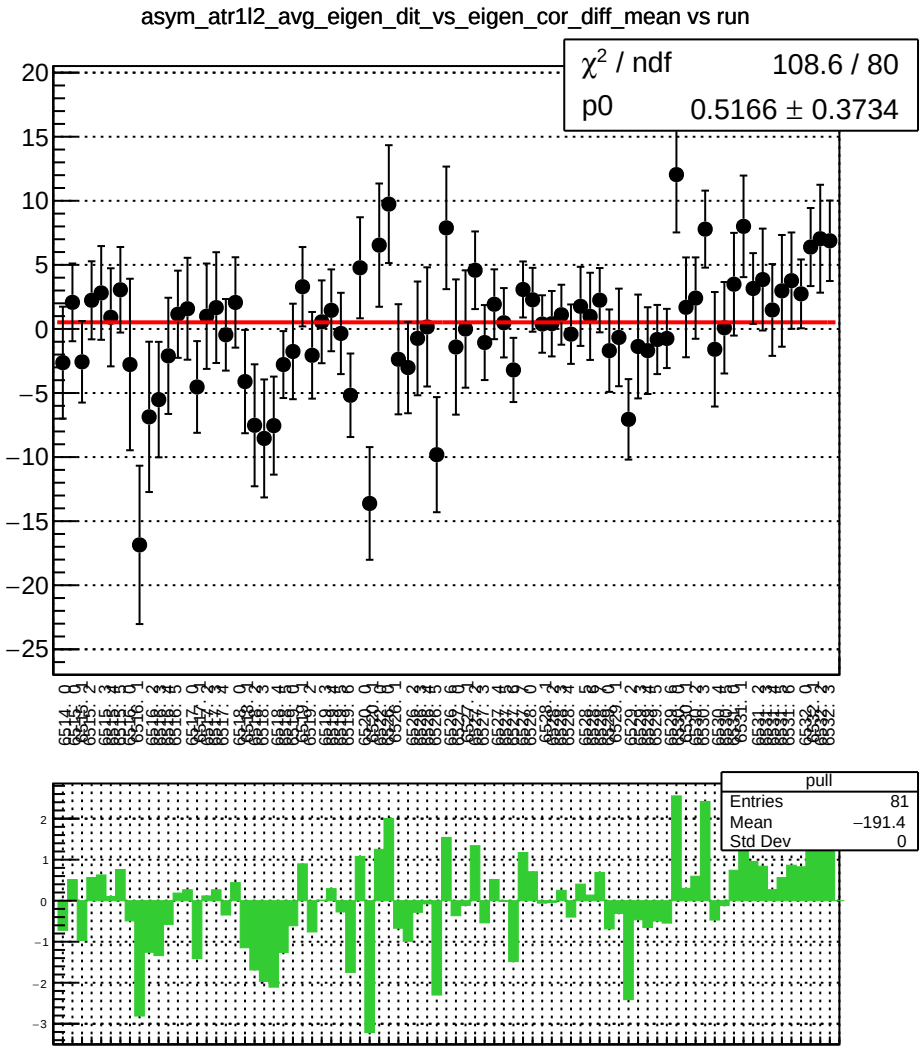

pull1D
Entries 81
Mean −0.01869
Std Dev 1.085
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

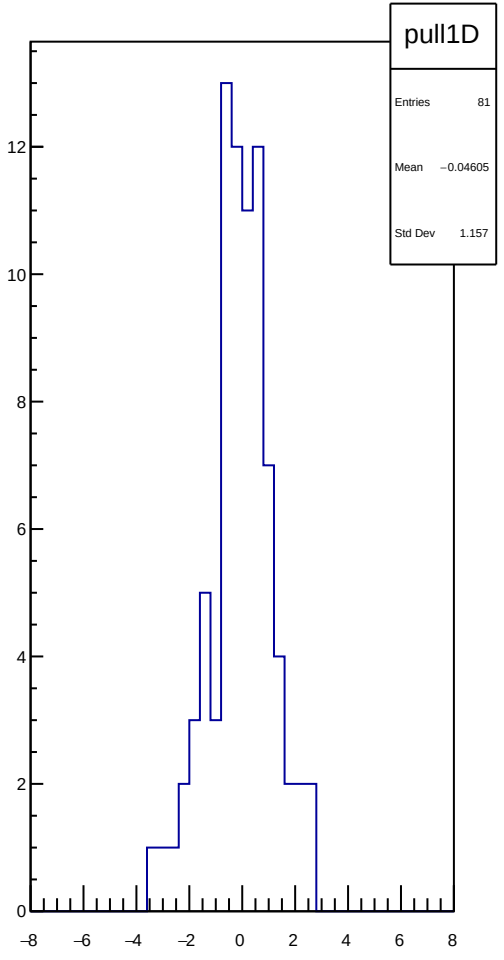

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.113e+04 / 80
p0 0.01853 ± 1.498e−05
0.024
0.022
0.02
0.018
0.016
0.014

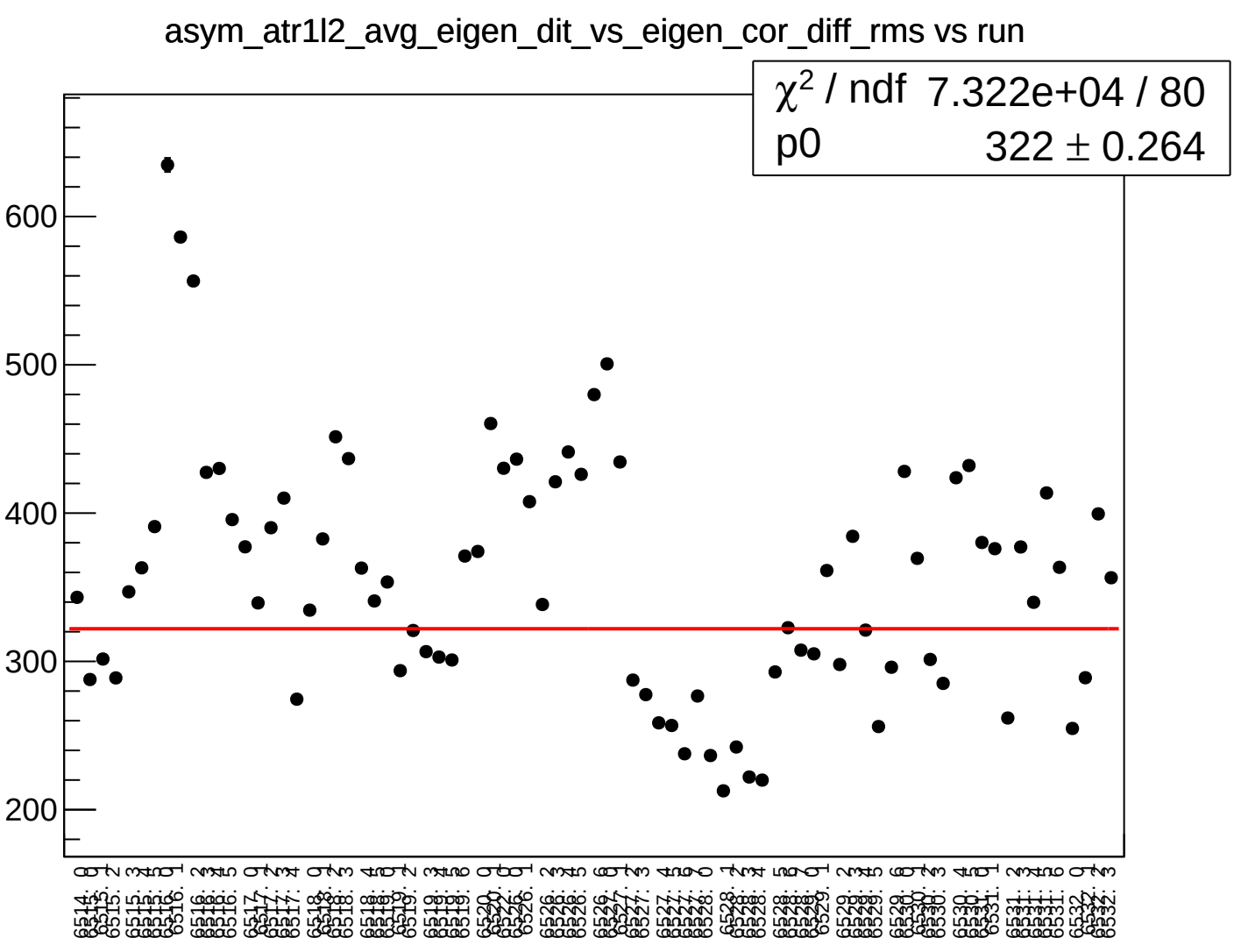

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 108.6 / 80
p0 0.5166 ± 0.3734
pull
Entries 81
Mean −191.4
Std Dev 0

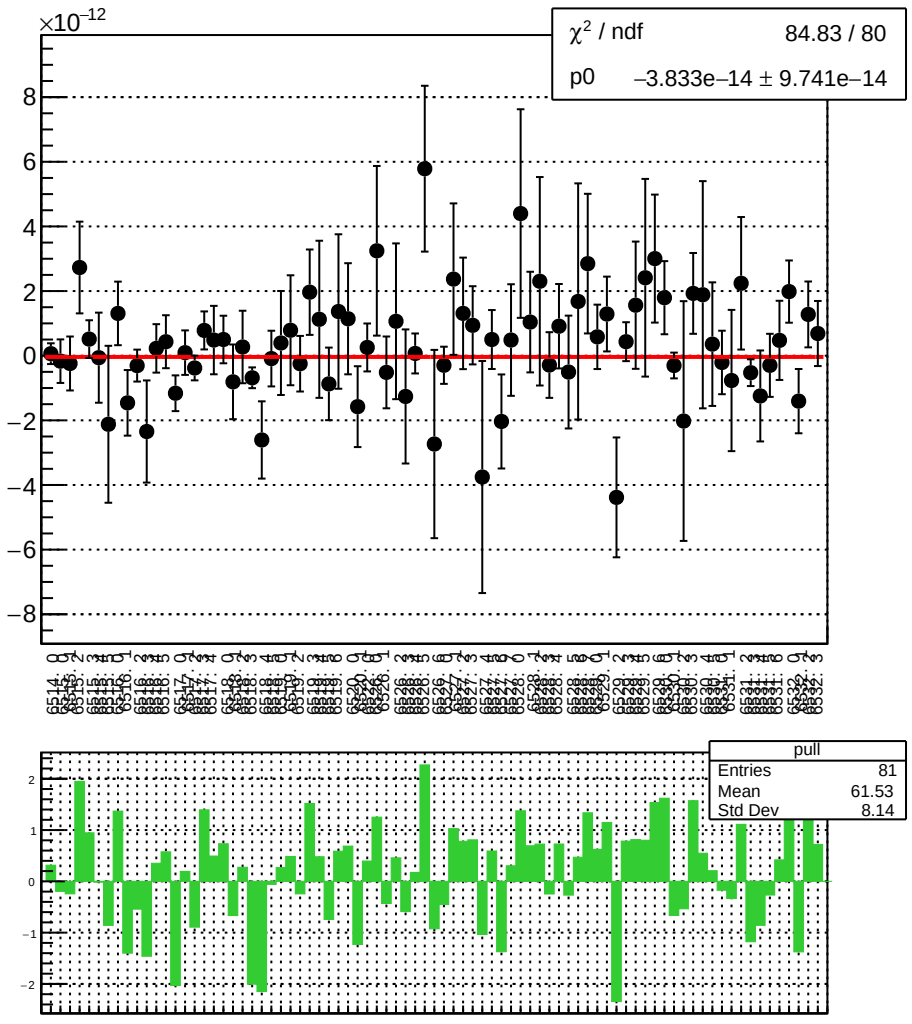

pull1D
Entries 81
Mean −0.04605
Std Dev 1.157

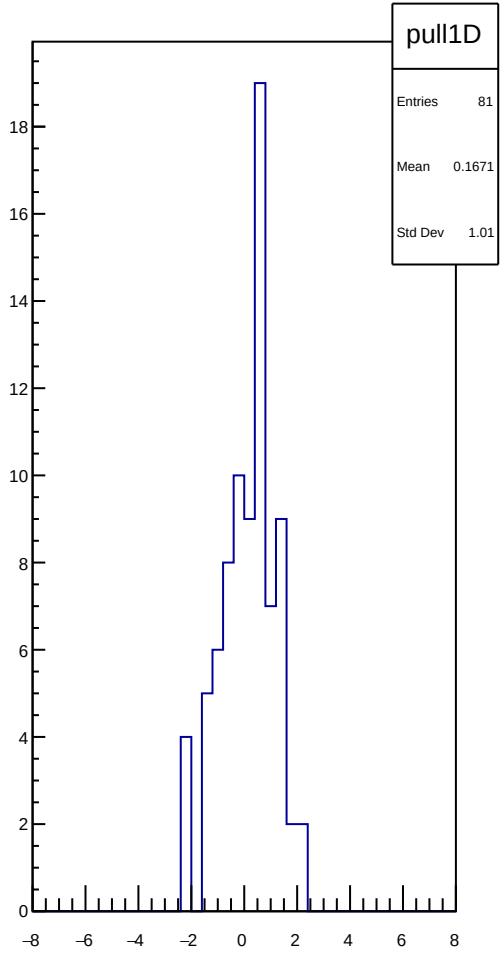

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.322e+04 / 80
p0 322 ± 0.264
600
500
400
300
200

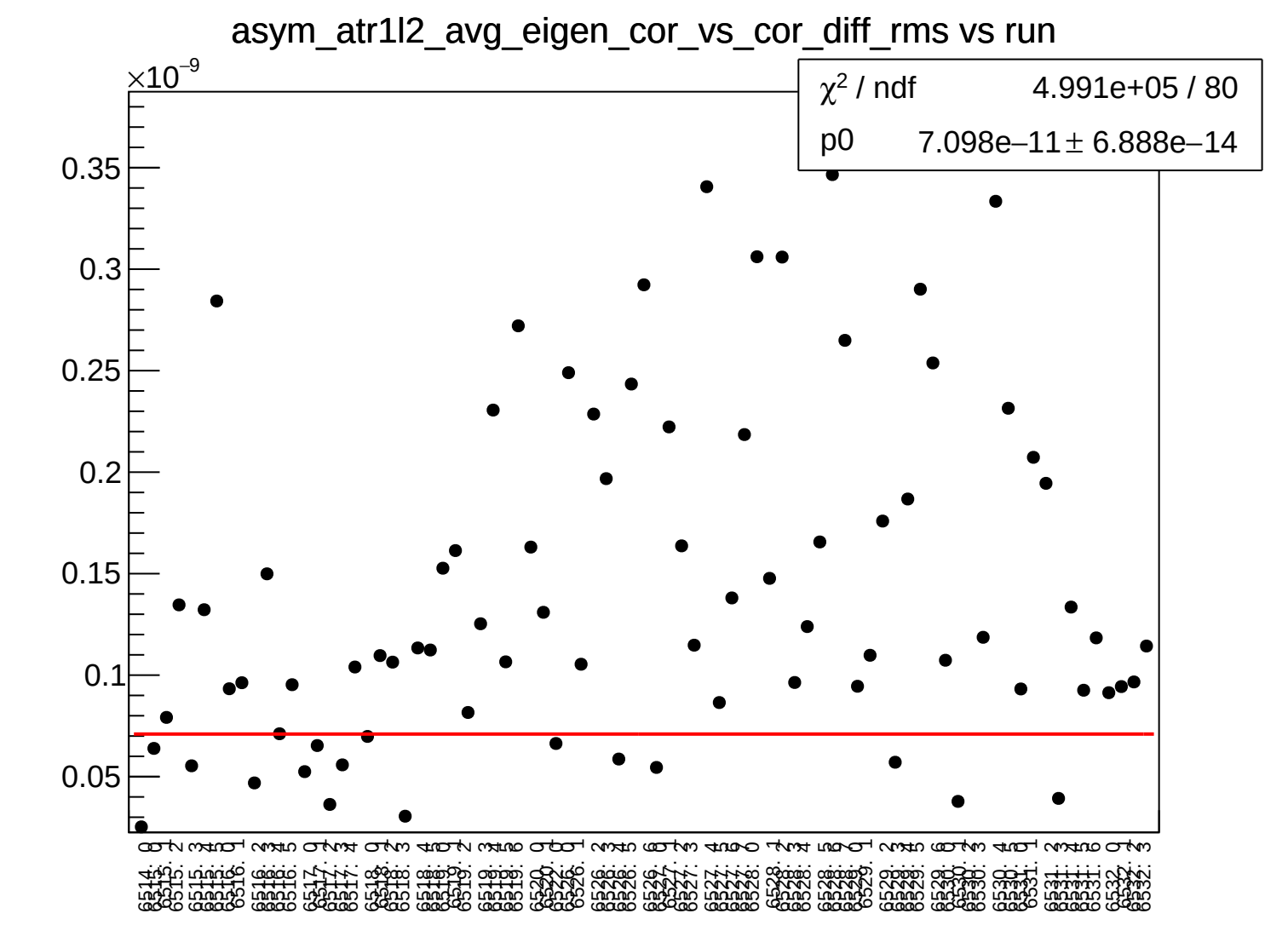

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.6 / 80
p0 0.5166 ± 0.3734
pull
Entries 81
Mean −191.4
Std Dev 0

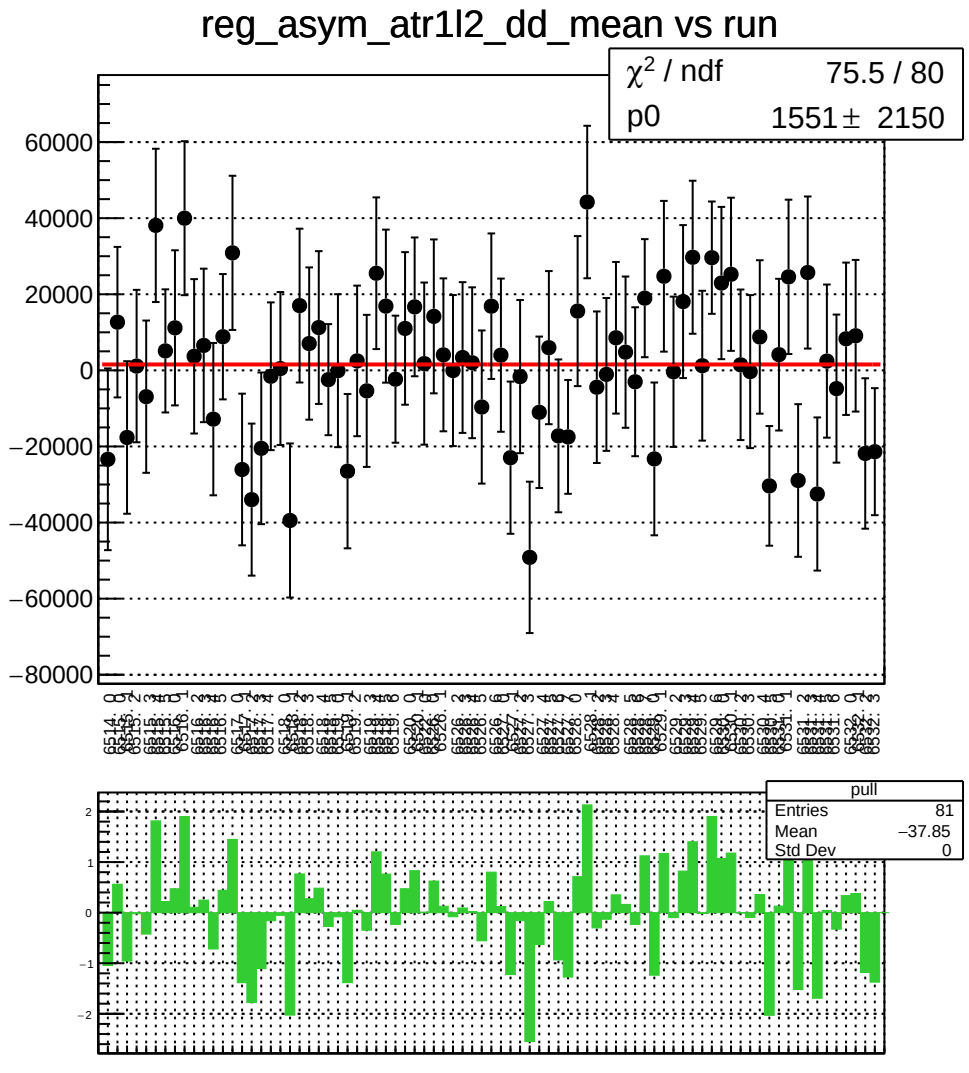

pull1D
Entries 81
Mean −0.04605
Std Dev 1.157

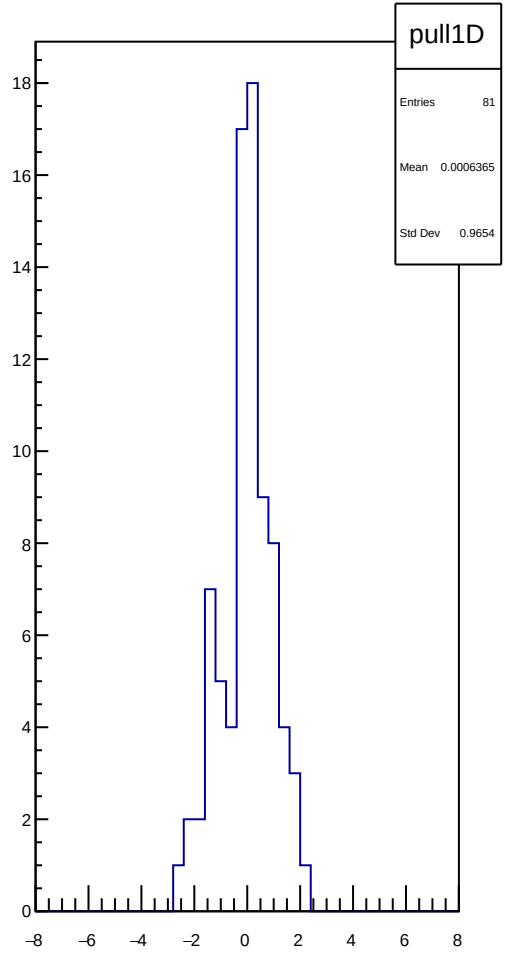

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.322e+04 / 80
p0 322 ± 0.264
600
500
400
300
200

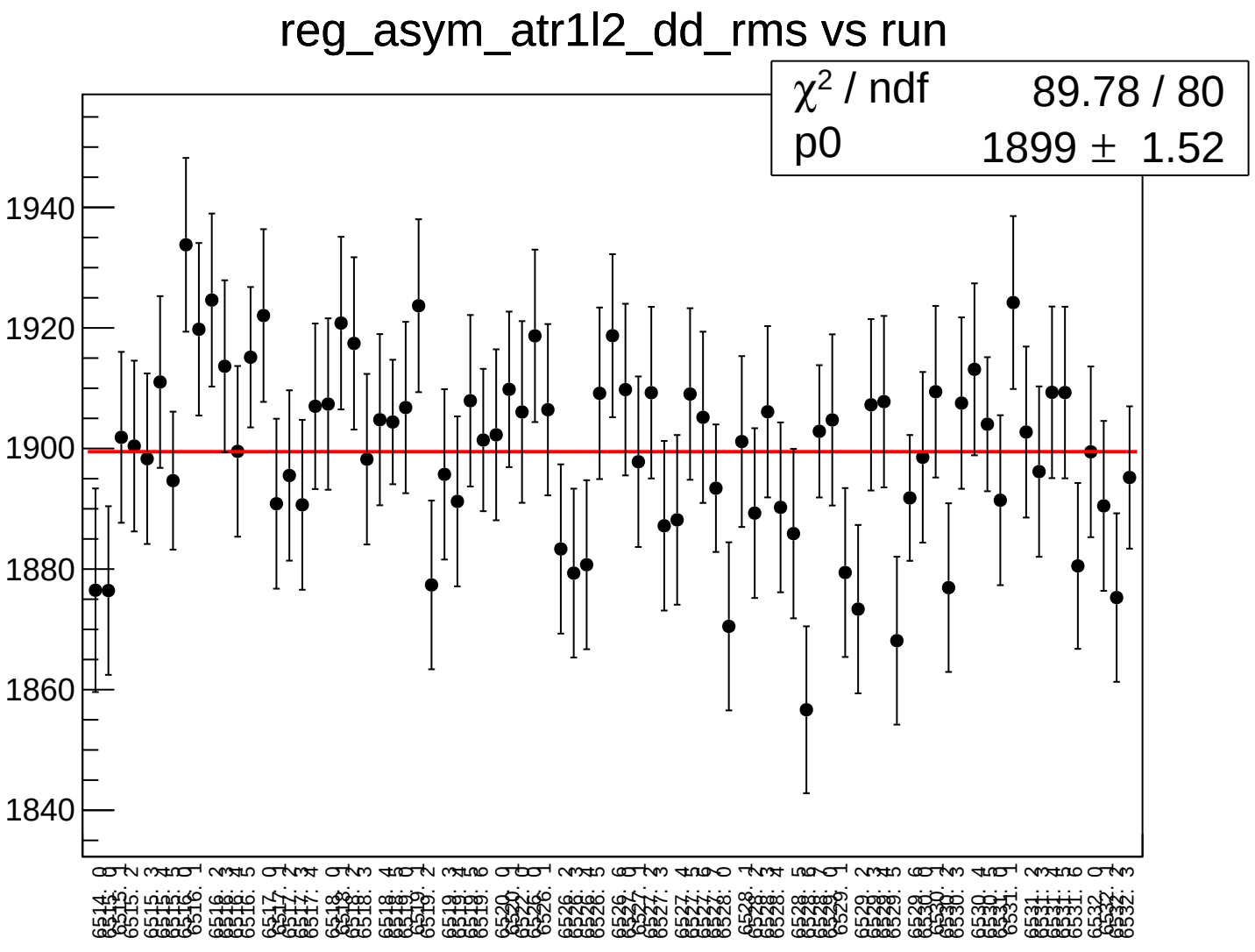

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.83 / 80
p0 −3.833e−14 ± 9.741e−14
pull
Entries 81
Mean 61.53
Std Dev 8.14

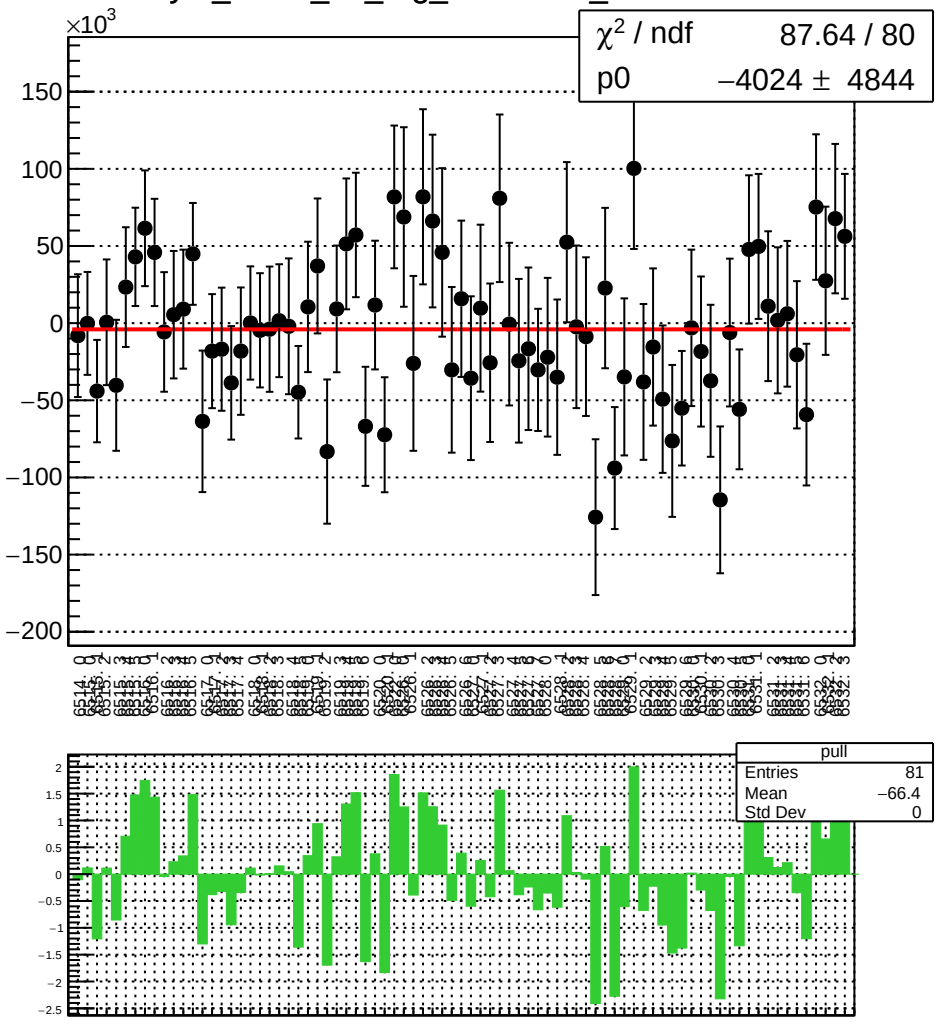

pull1D
Entries 81
Mean 0.1671
Std Dev 1.01

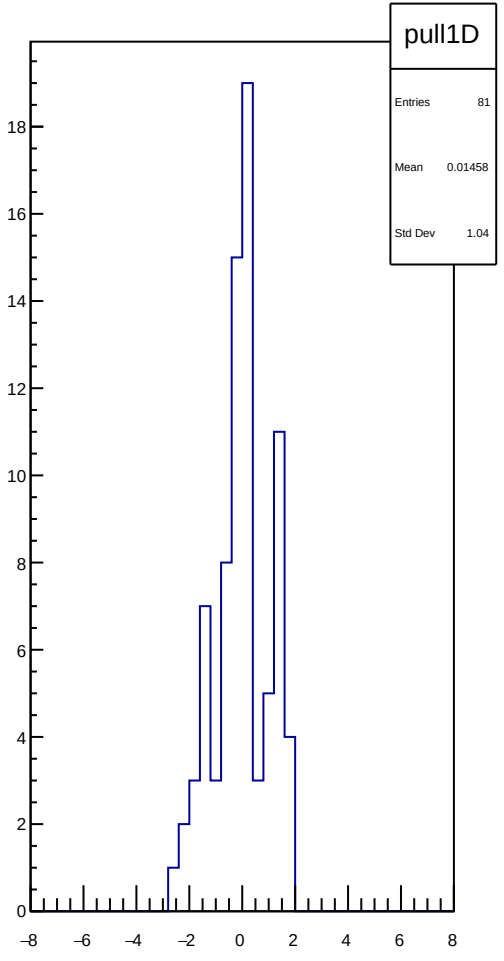

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.991e+05 / 80
p0 7.098e−11 ± 6.888e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

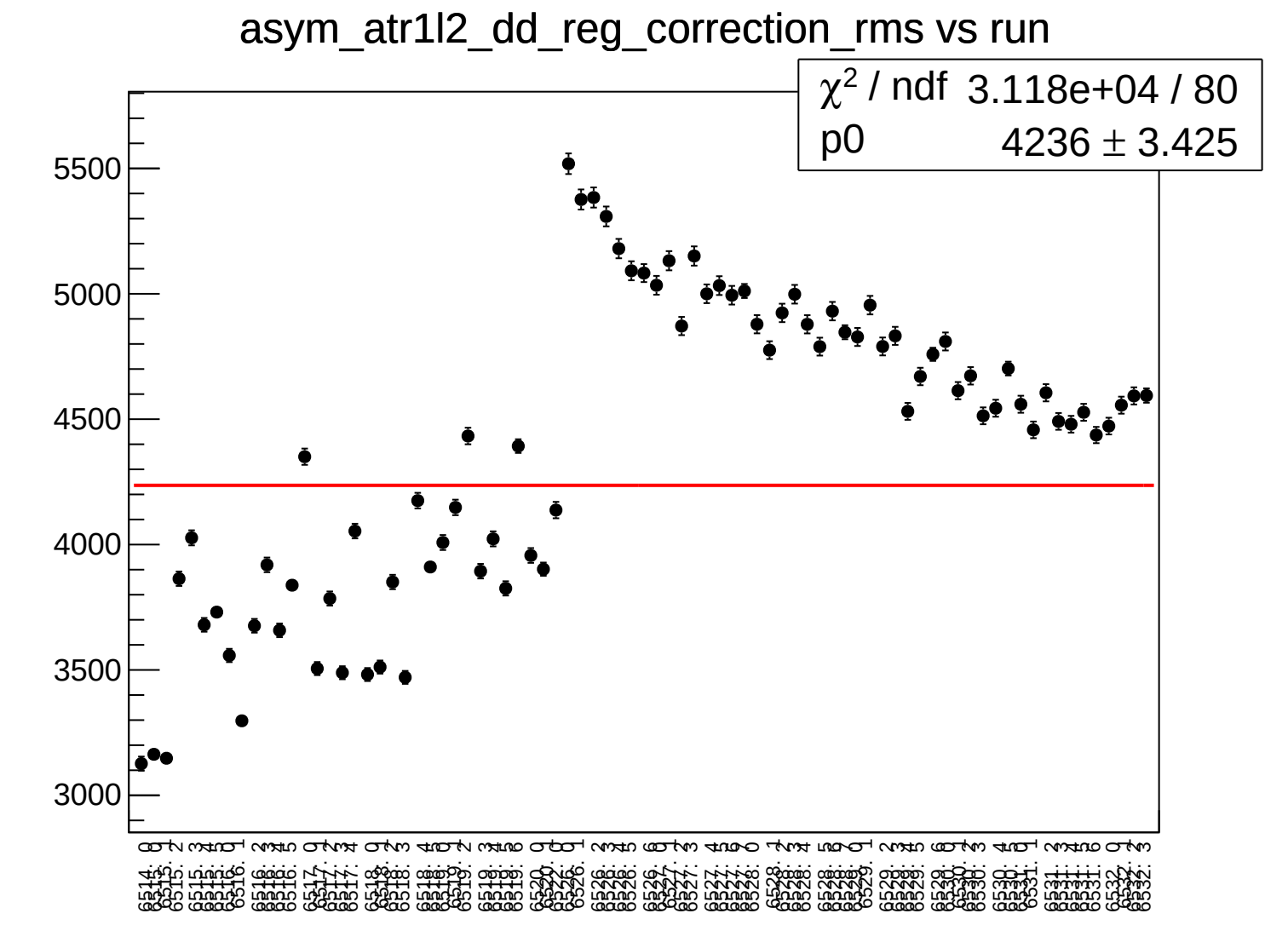

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 75.5 / 80
p0 1551 ± 2150
pull
Entries 81
Mean −37.85
Std Dev 0

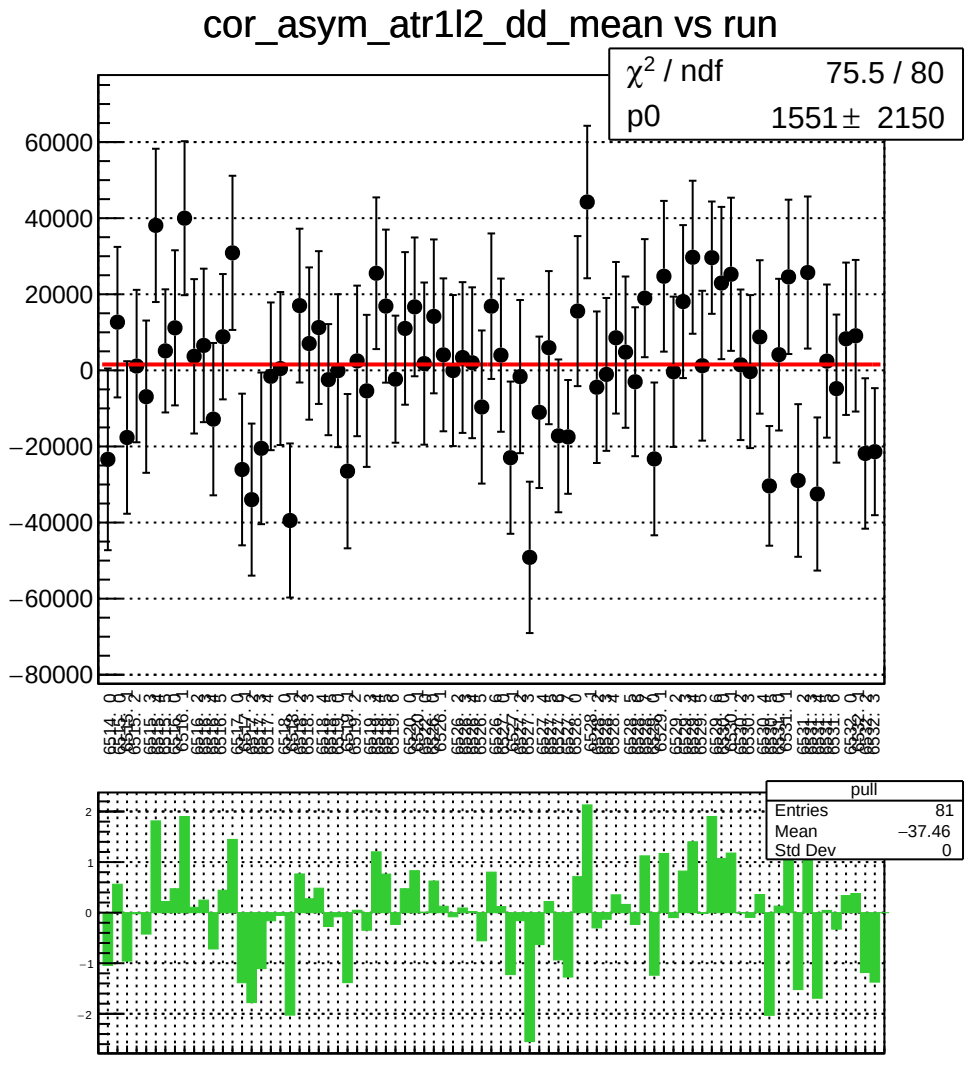

pull1D
Entries 81
Mean 0.0006365
Std Dev 0.9654

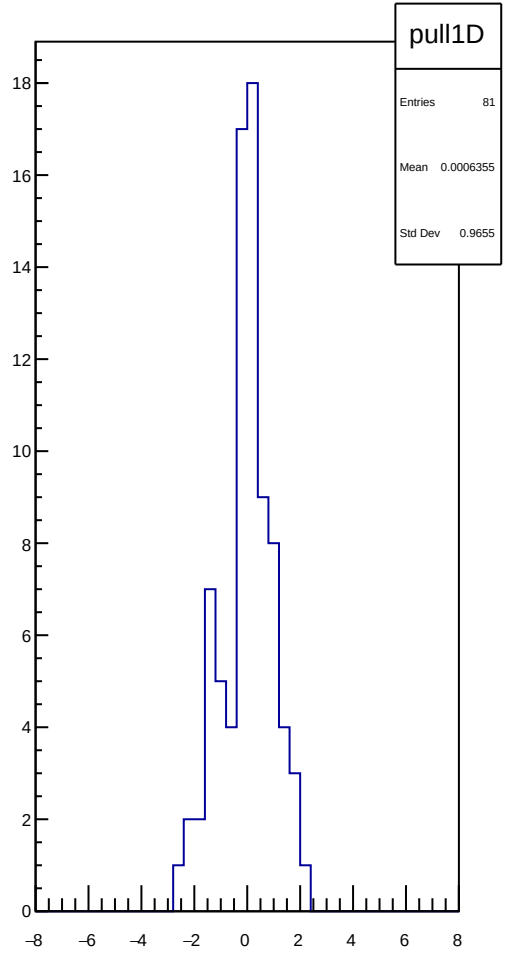

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 89.78 / 80
p0 1899 ± 1.52
1940
1920
1900
1880
1860
1840

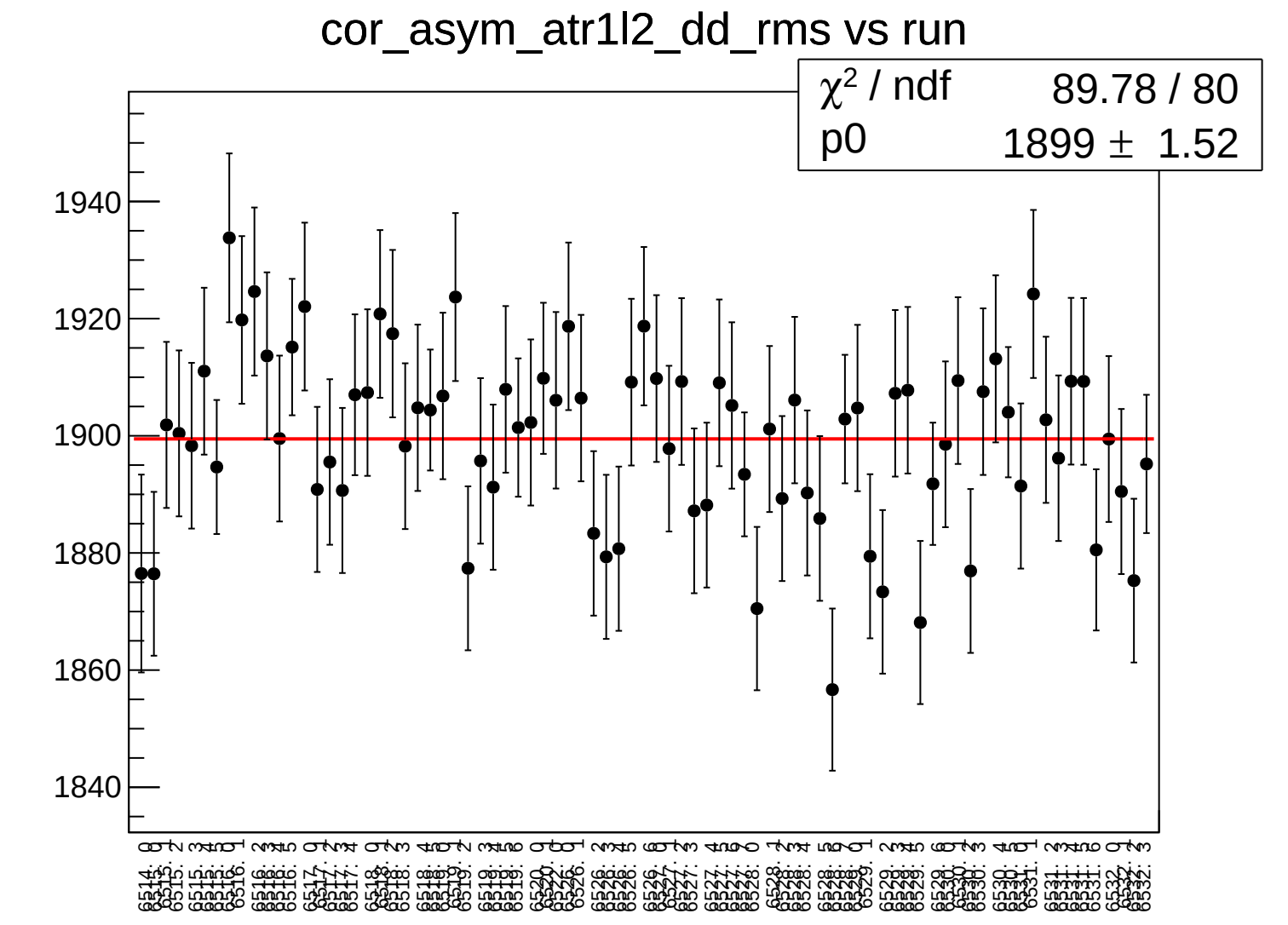

asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 87.64 / 80
p0 −4024 ± 4844
150
100
50
0
−50
−100
−150
−200
pull
Entries 81
Mean −66.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

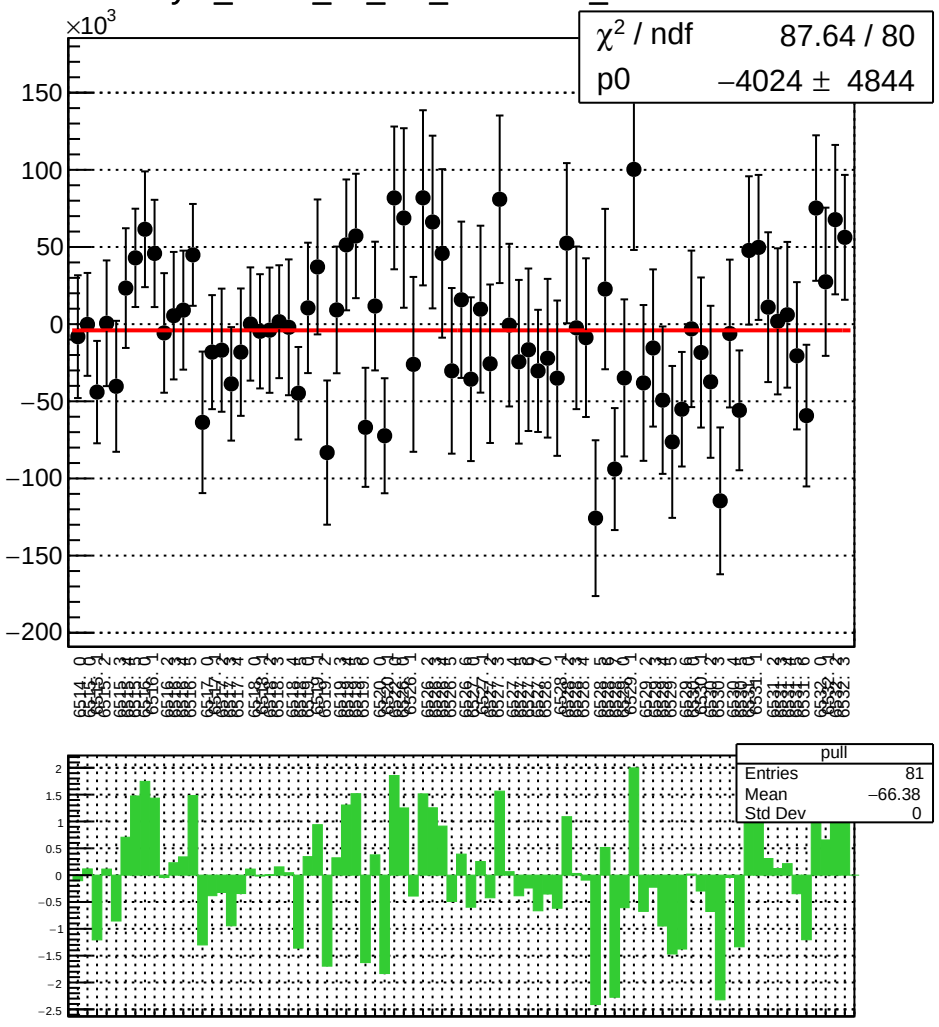

pull1D
Entries 81
Mean 0.01458
Std Dev 1.04
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

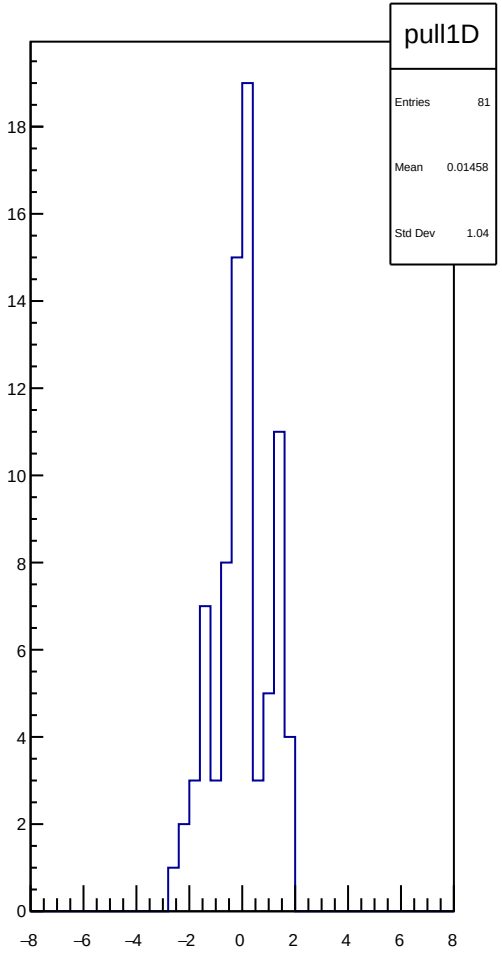

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 3.118e+04 / 80
p0 4236 ± 3.425
5500
5000
4500
4000
3500
3000

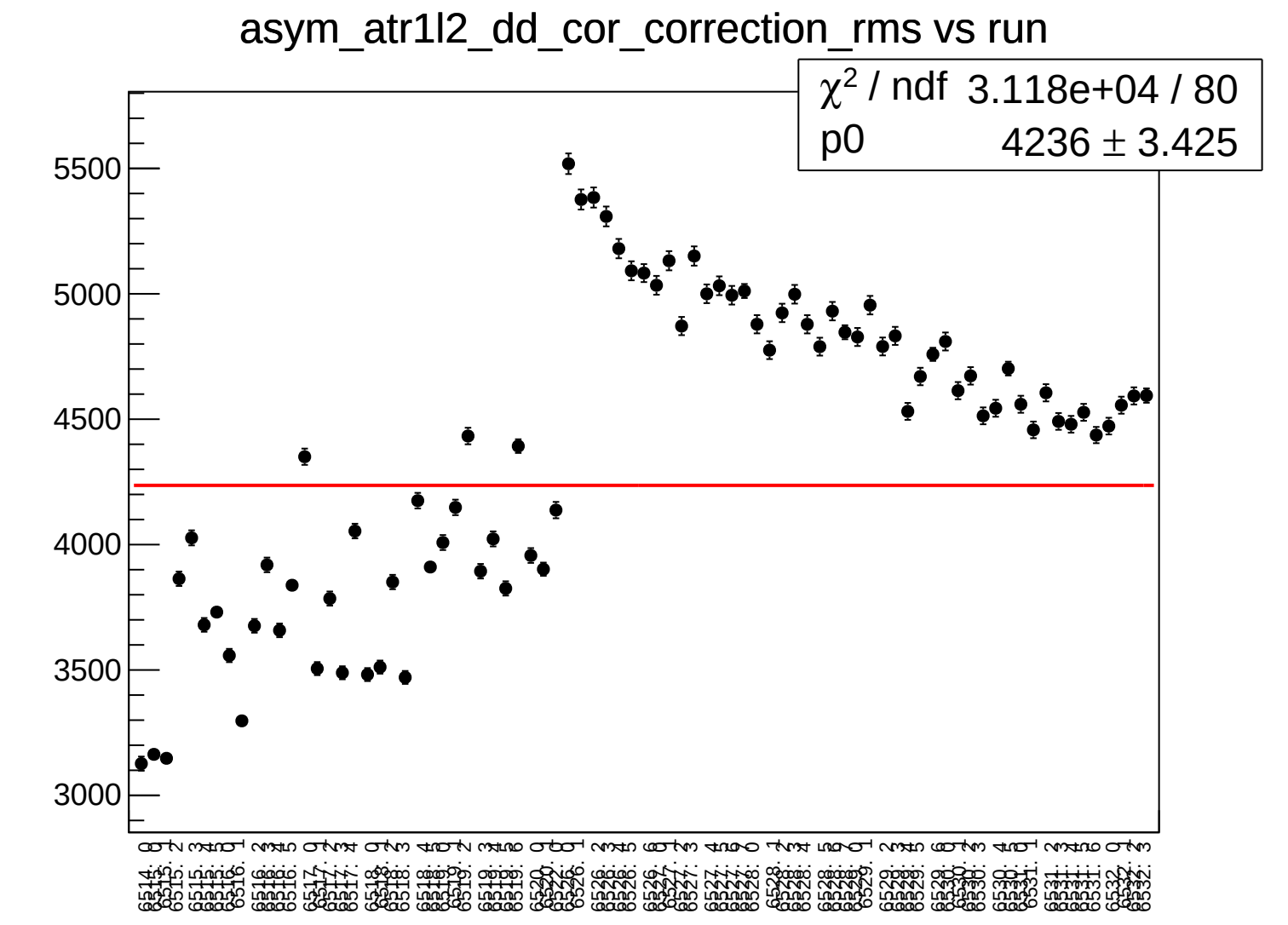

cor_asym_atr1l2_dd_mean vs run
χ² / ndf 75.5 / 80
p0 1551 ± 2150
pull
Entries 81
Mean −37.46
Std Dev 0

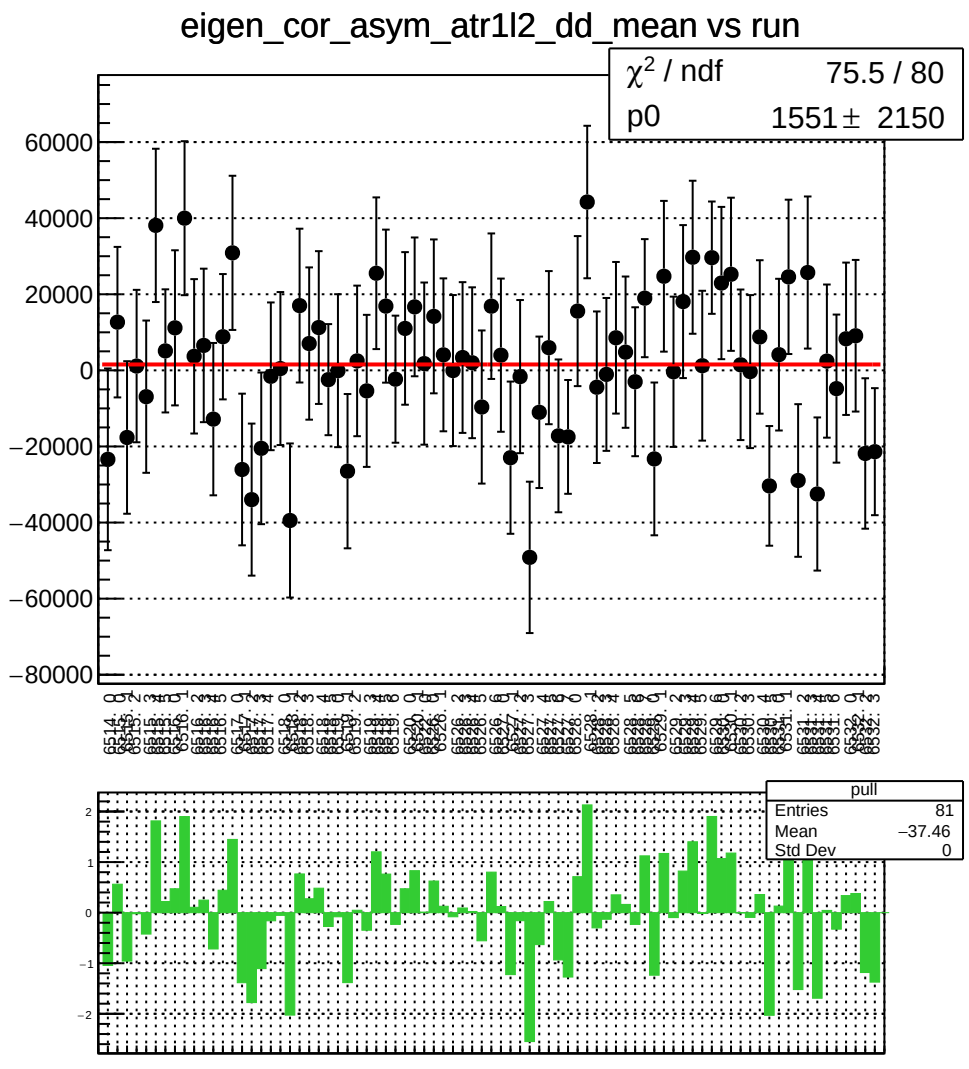

pull1D
Entries 81
Mean 0.0006355
Std Dev 0.9655

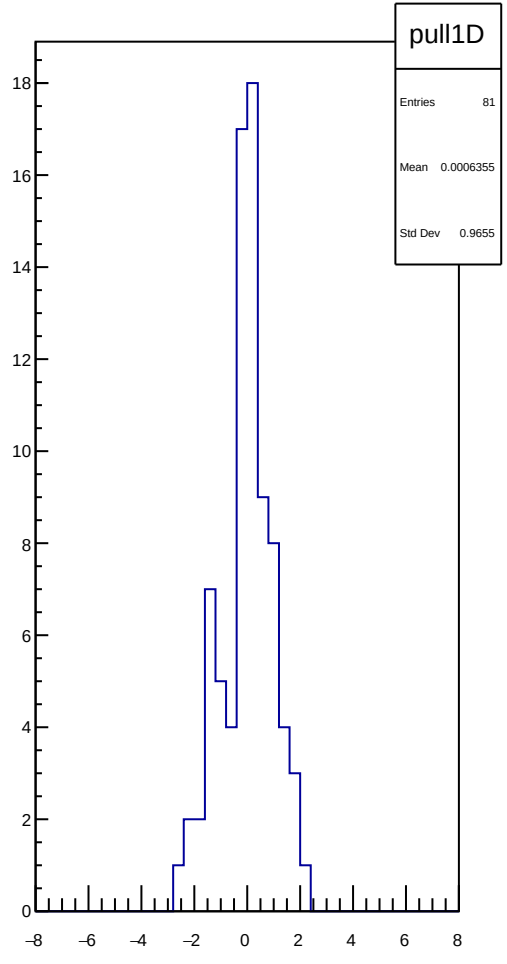

cor_asym_atr1l2_dd_rms vs run
χ² / ndf 89.78 / 80
p0 1899 ± 1.52
1940
1920
1900
1880
1860
1840

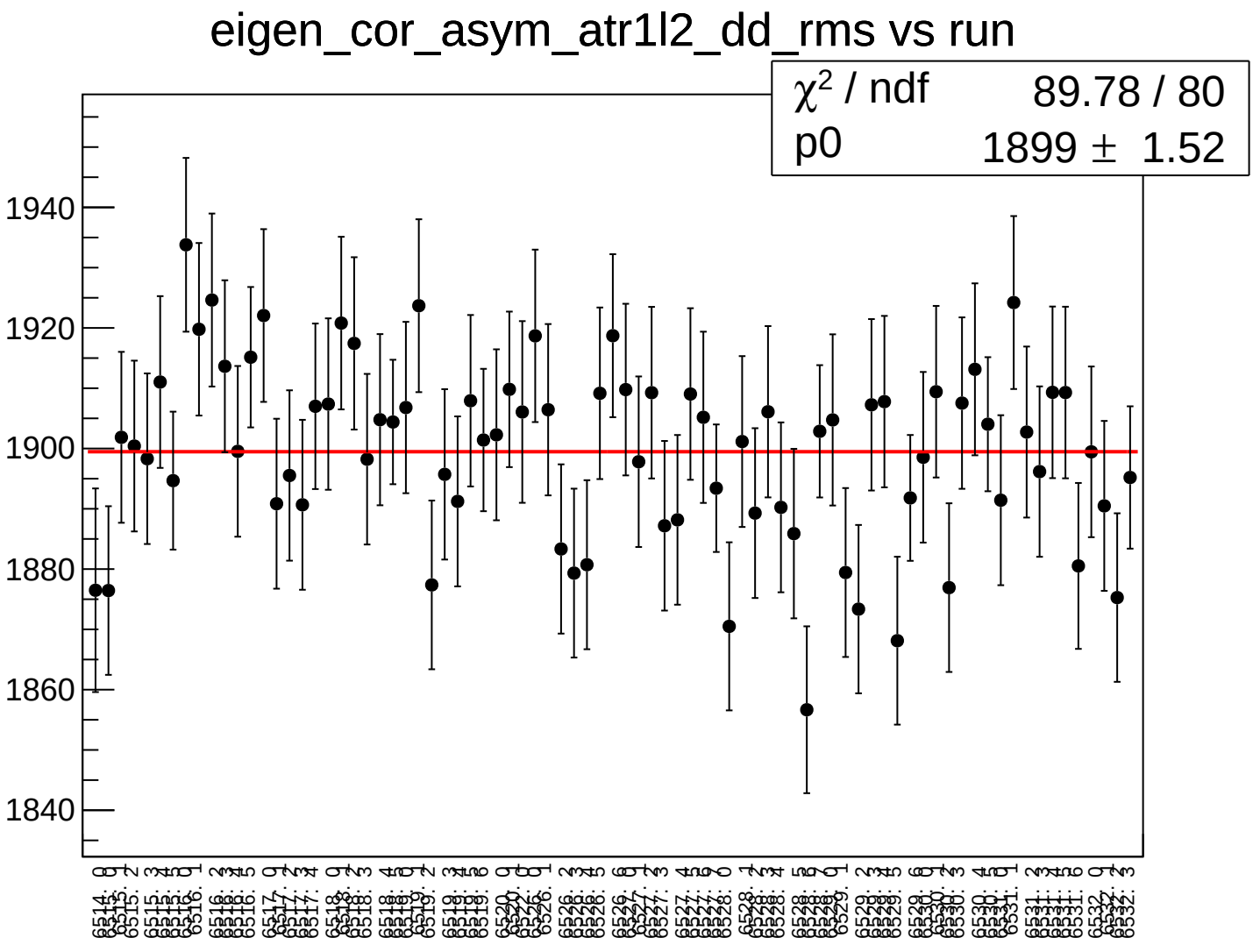

asym_atr1l2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 87.64 / 80
p0 −4024 ± 4844
150
100
50
0
−50
−100
−150
−200
pull
Entries 81
Mean −66.38
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

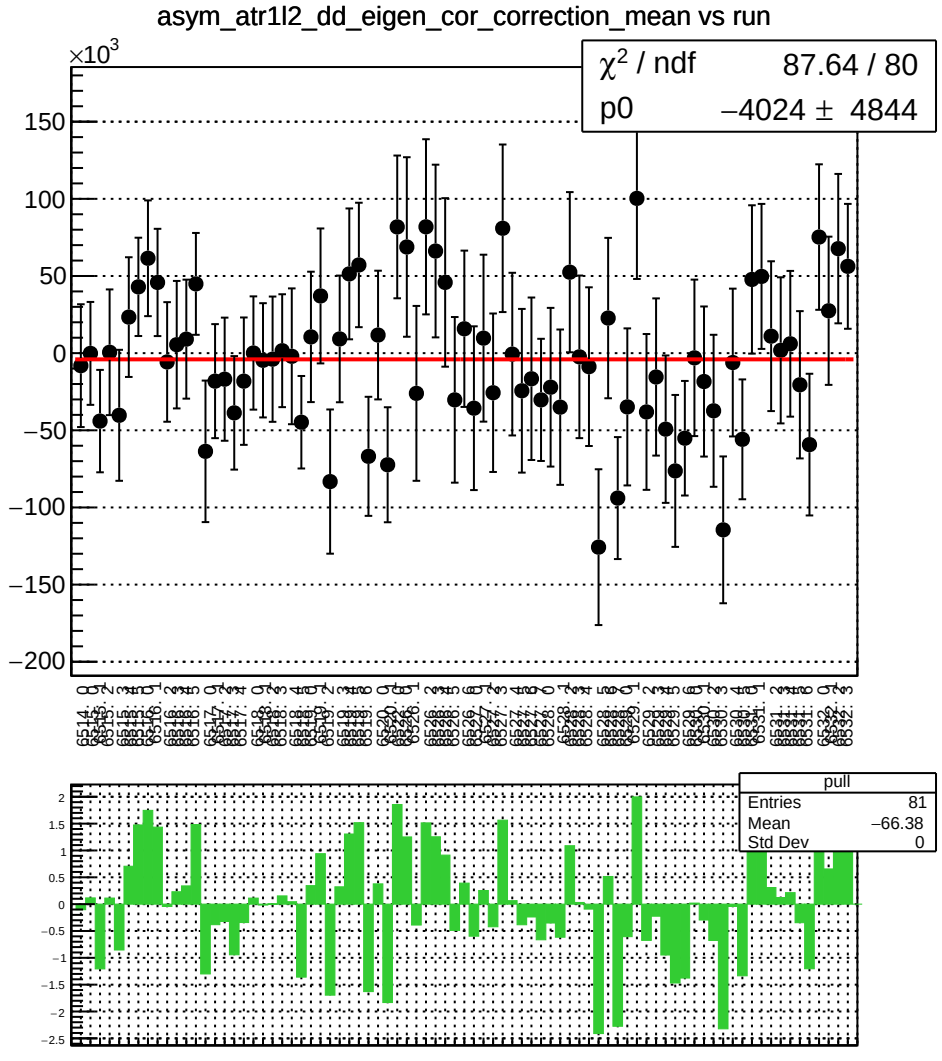

pull1D
Entries 81
Mean 0.01458
Std Dev 1.04
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

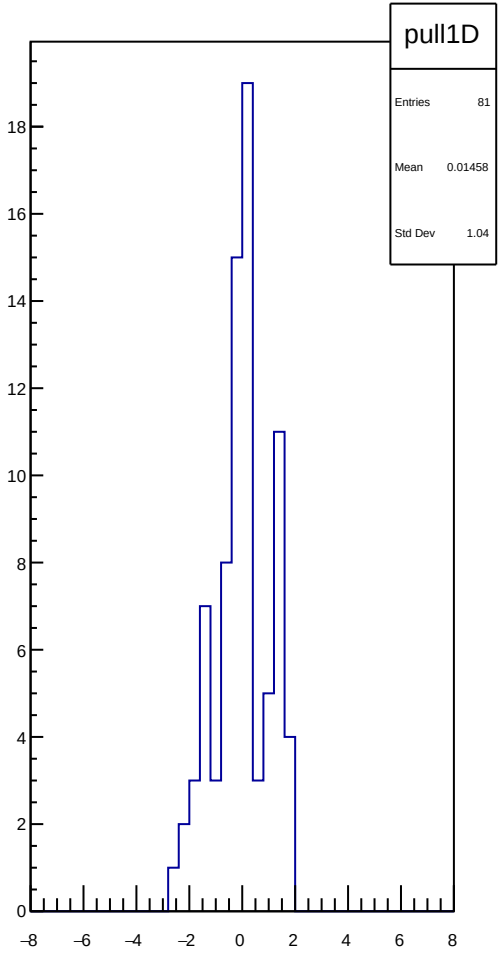

asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 3.118e+04 / 80
p0 4236 ± 3.425
5500
5000
4500
4000
3500
3000

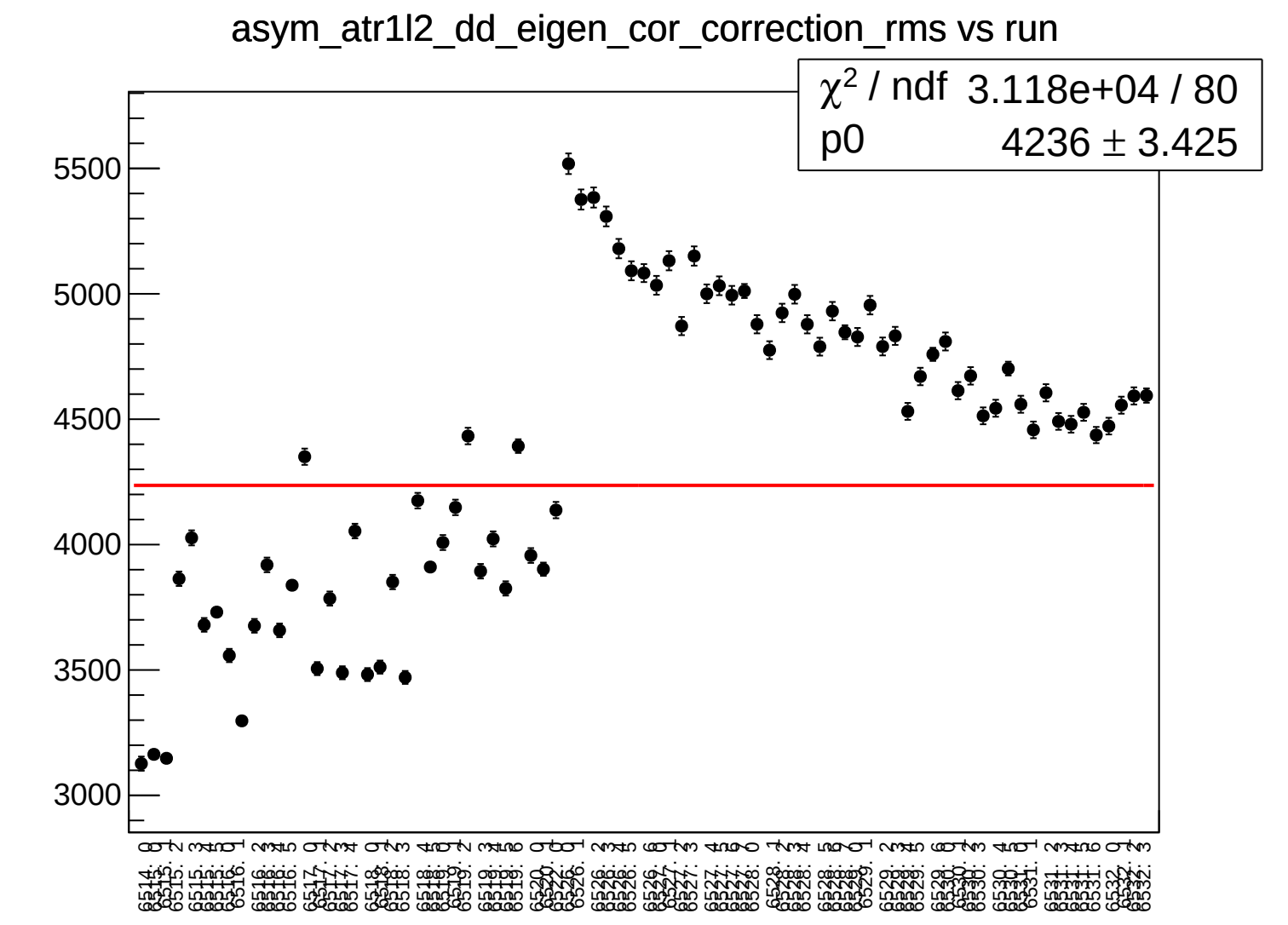

eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 75.5 / 80
p0 1551 ± 2150
pull
Entries 81
Mean −37.46
Std Dev 0

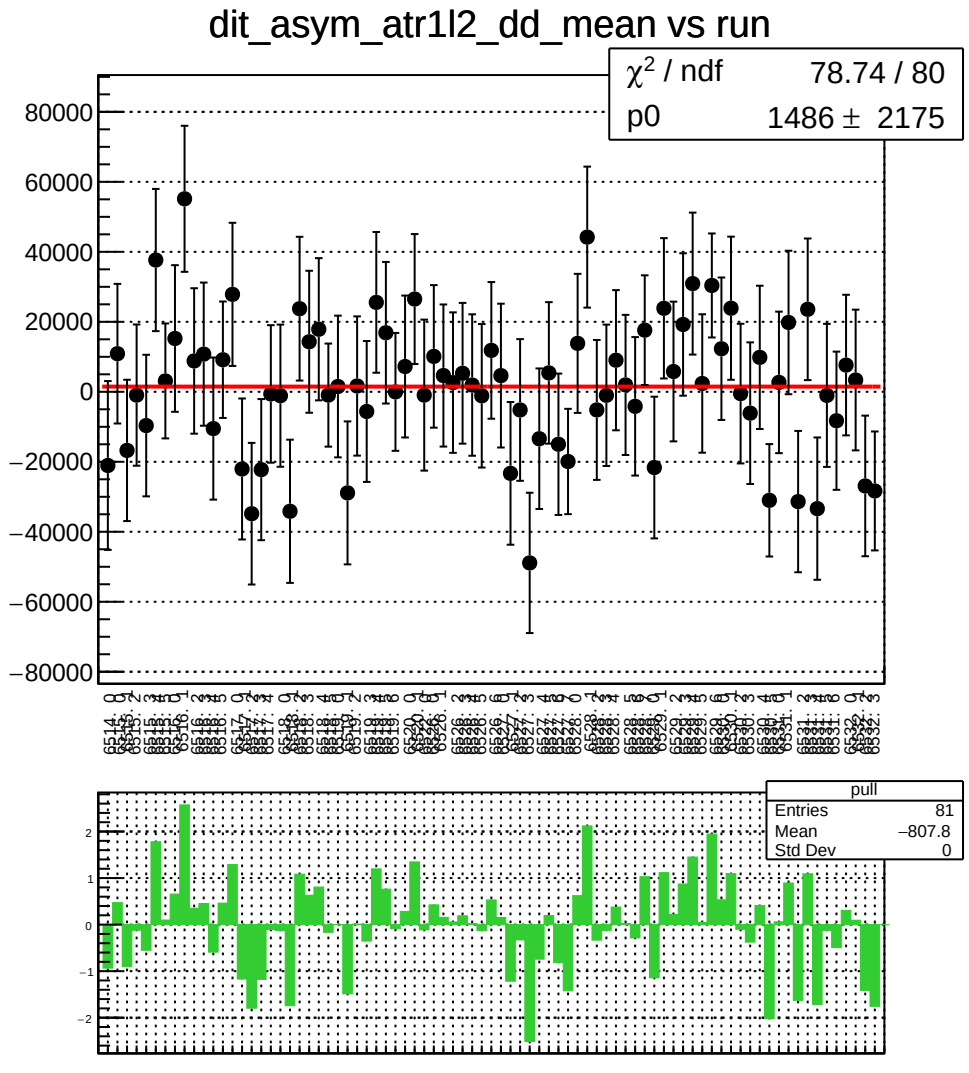

pull1D
Entries 81
Mean 0.0006355
Std Dev 0.9655

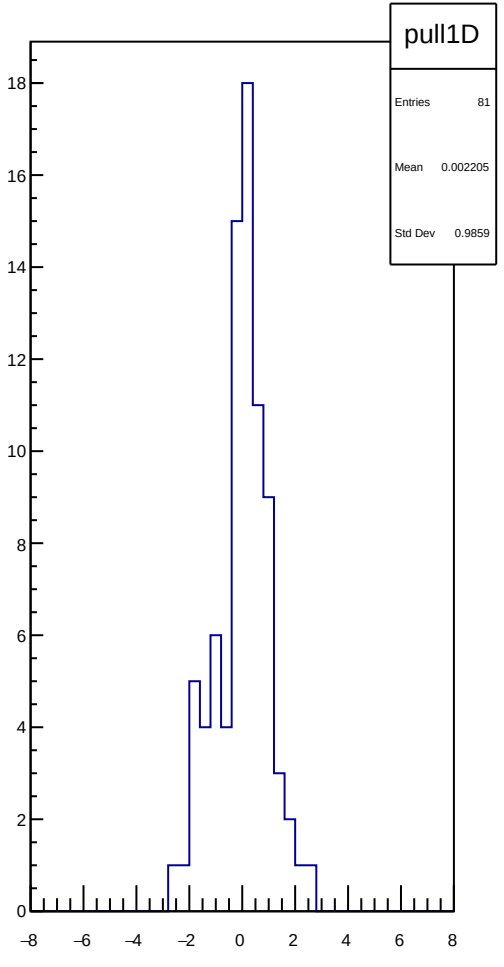

eigen_cor_asym_atr1l2_dd_rms vs run
χ² / ndf 89.78 / 80
p0 1899 ± 1.52
1940
1920
1900
1880
1860
1840

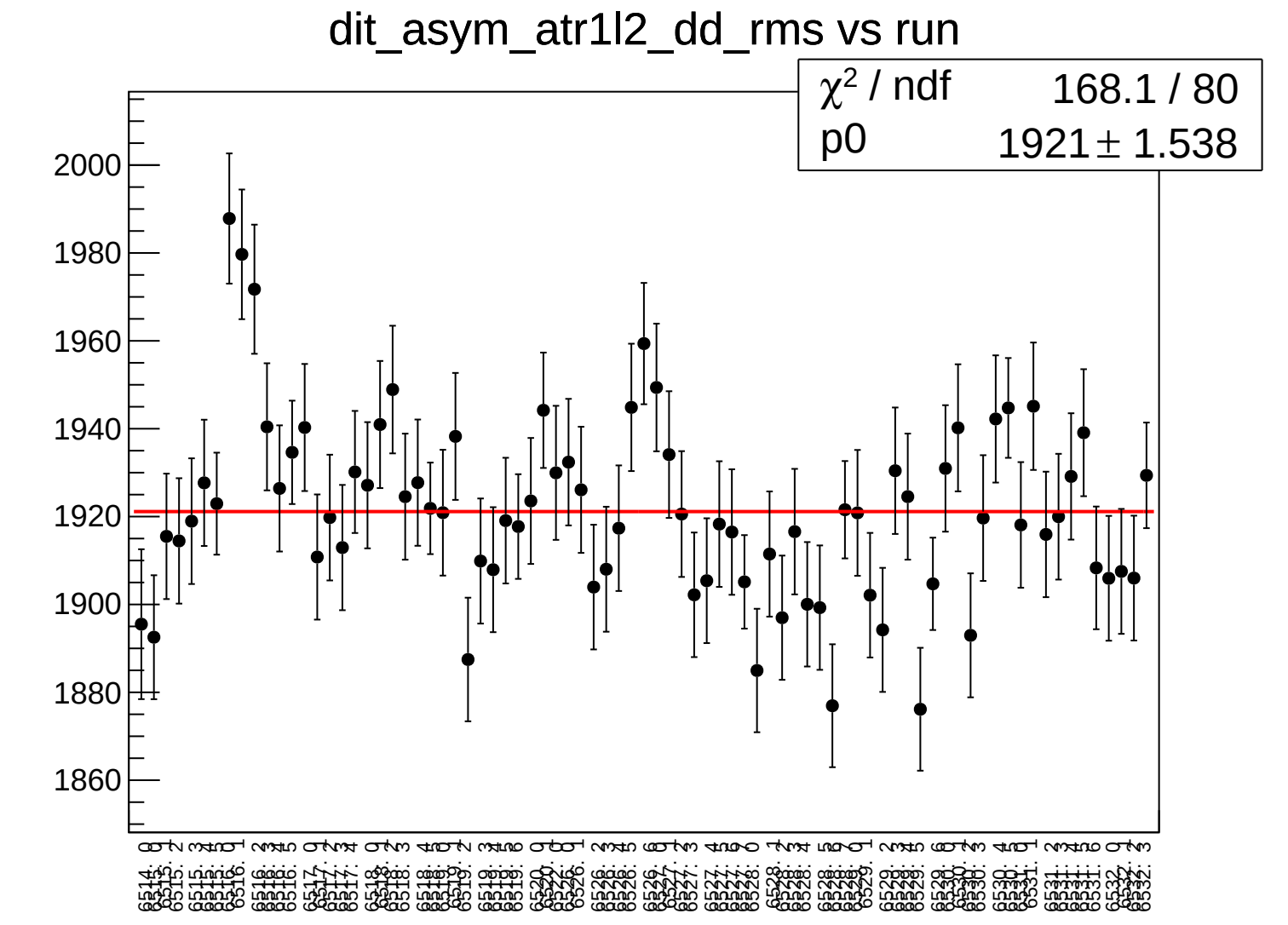

asym_atr1l2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 87.64 / 80
p0 −4024 ± 4844
150
100
50
0
−50
−100
−150
−200
pull
Entries 81
Mean −66.38
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

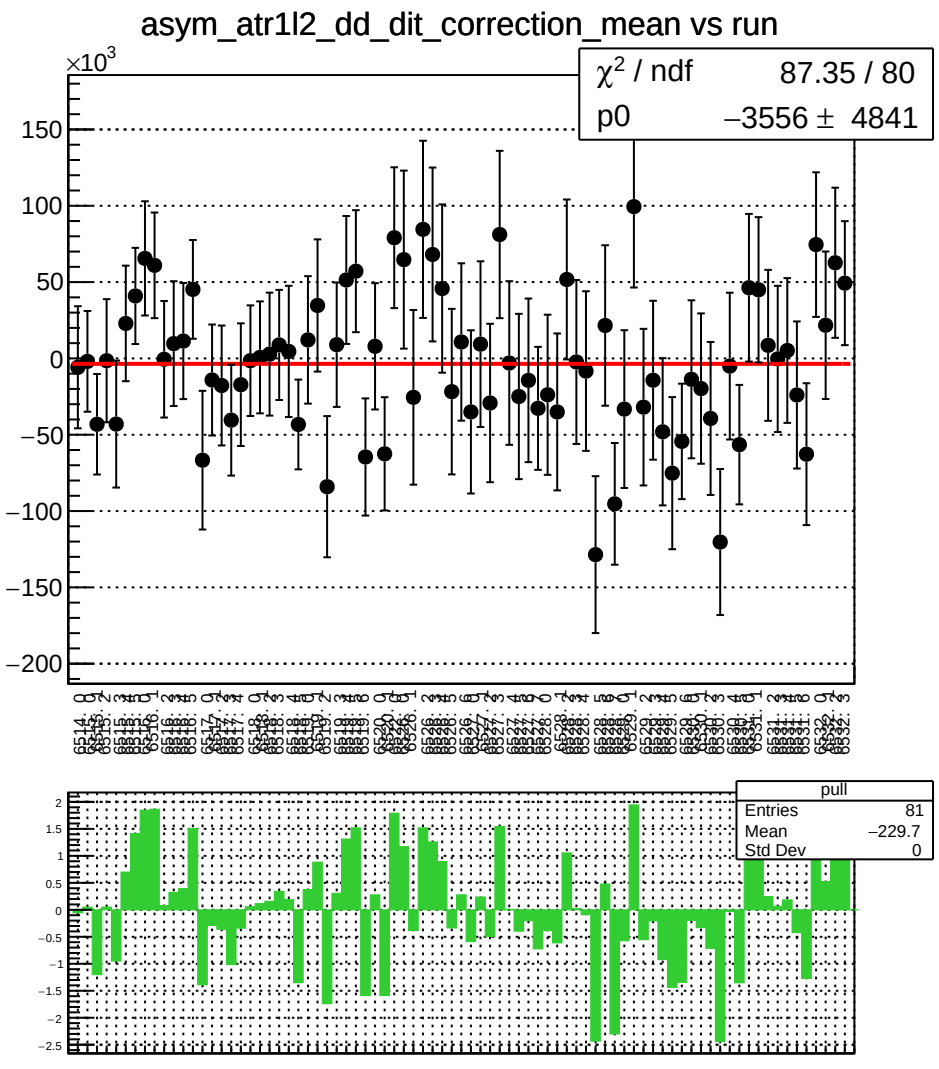

pull1D
Entries 81
Mean 0.01458
Std Dev 1.04
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

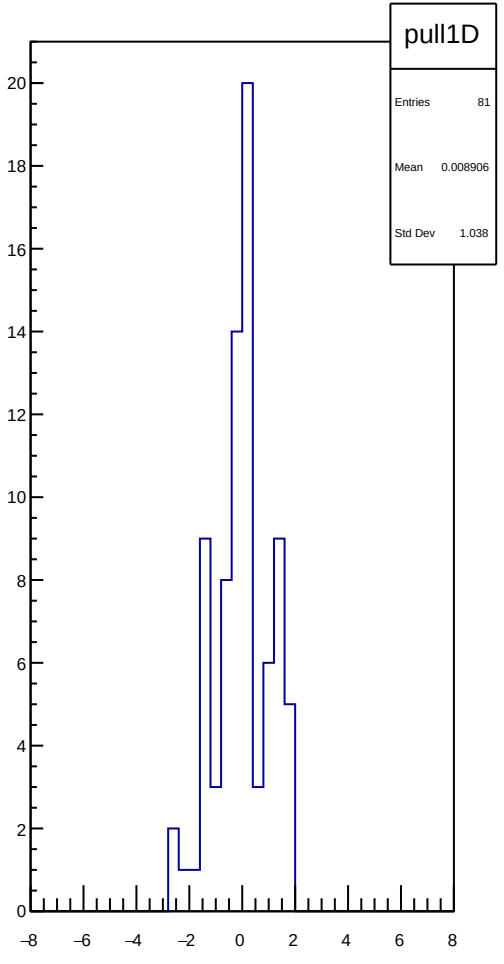

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.118e+04 / 80
p0 4236 ± 3.425
5500
5000
4500
4000
3500
3000

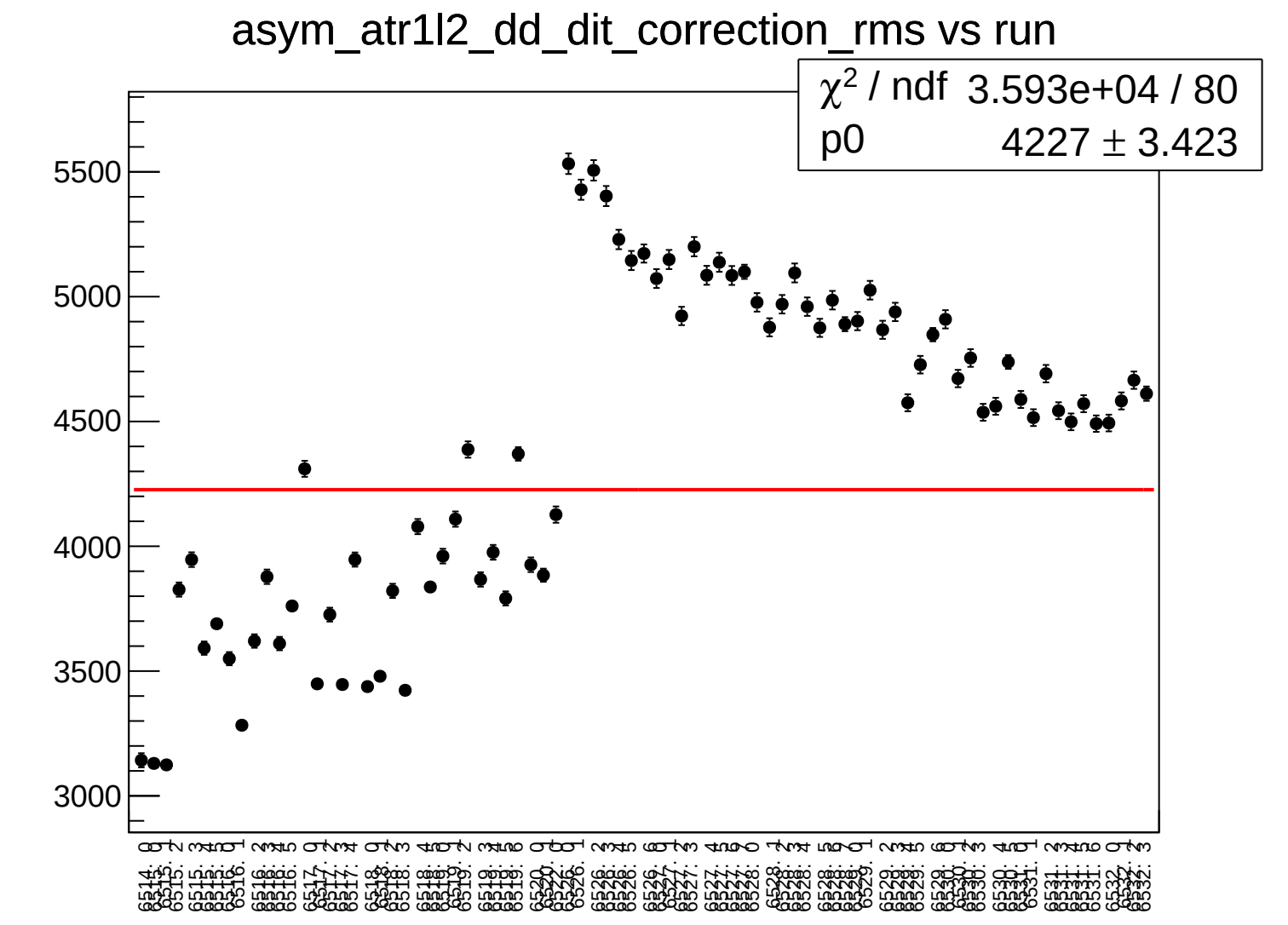

dit_asym_atr1l2_dd_mean vs run
χ² / ndf 78.74 / 80
p0 1486 ± 2175
pull
Entries 81
Mean −807.8
Std Dev 0

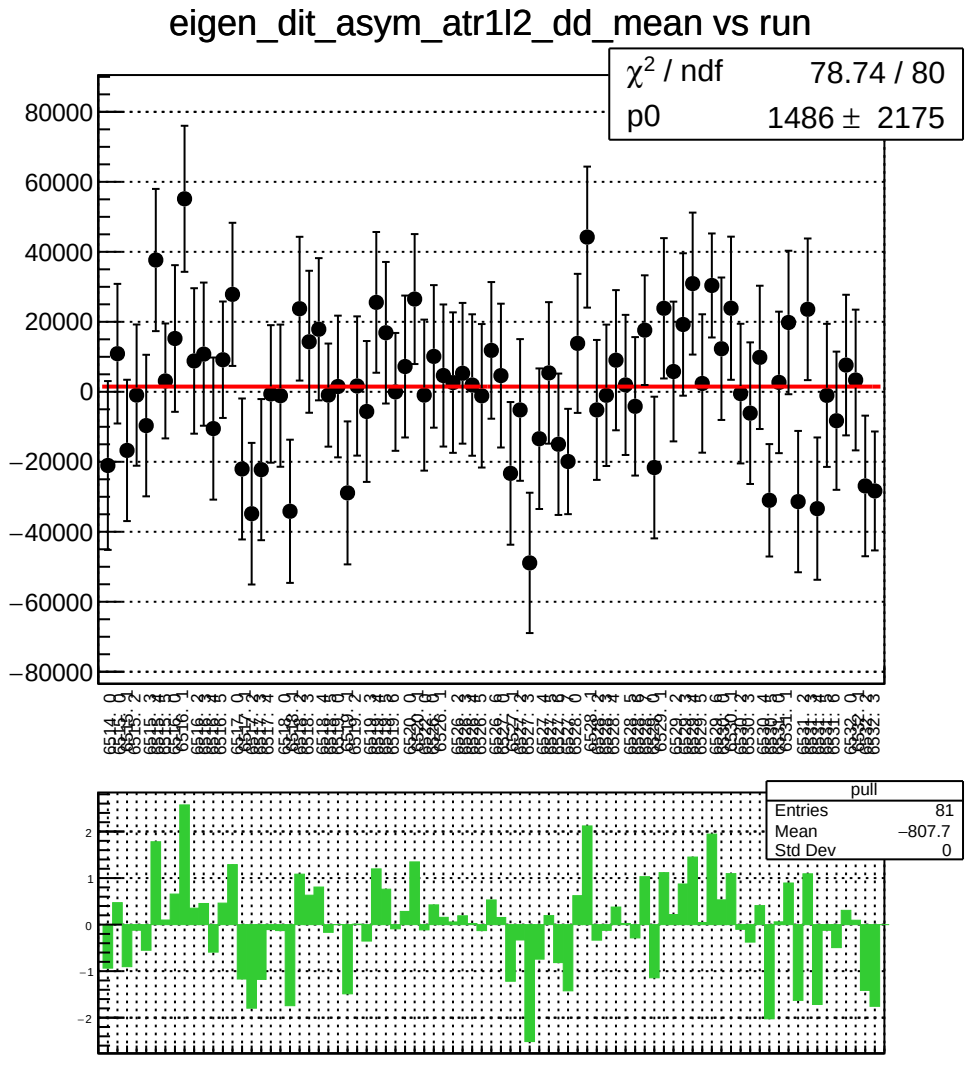

pull1D
Entries 81
Mean 0.002205
Std Dev 0.9859

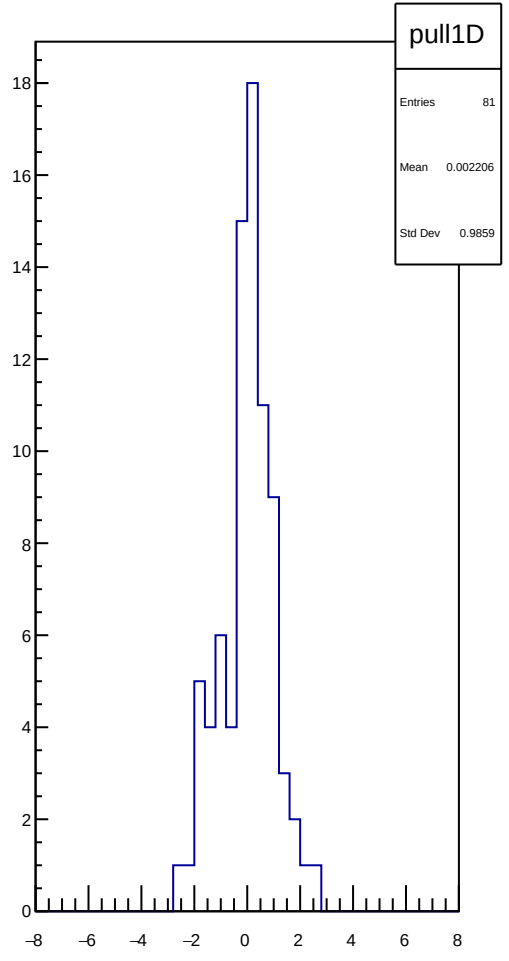

dit_asym_atr1l2_dd_rms vs run
χ² / ndf 168.1 / 80
p0 1921 ± 1.538
2000
1980
1960
1940
1920
1900
1880
1860

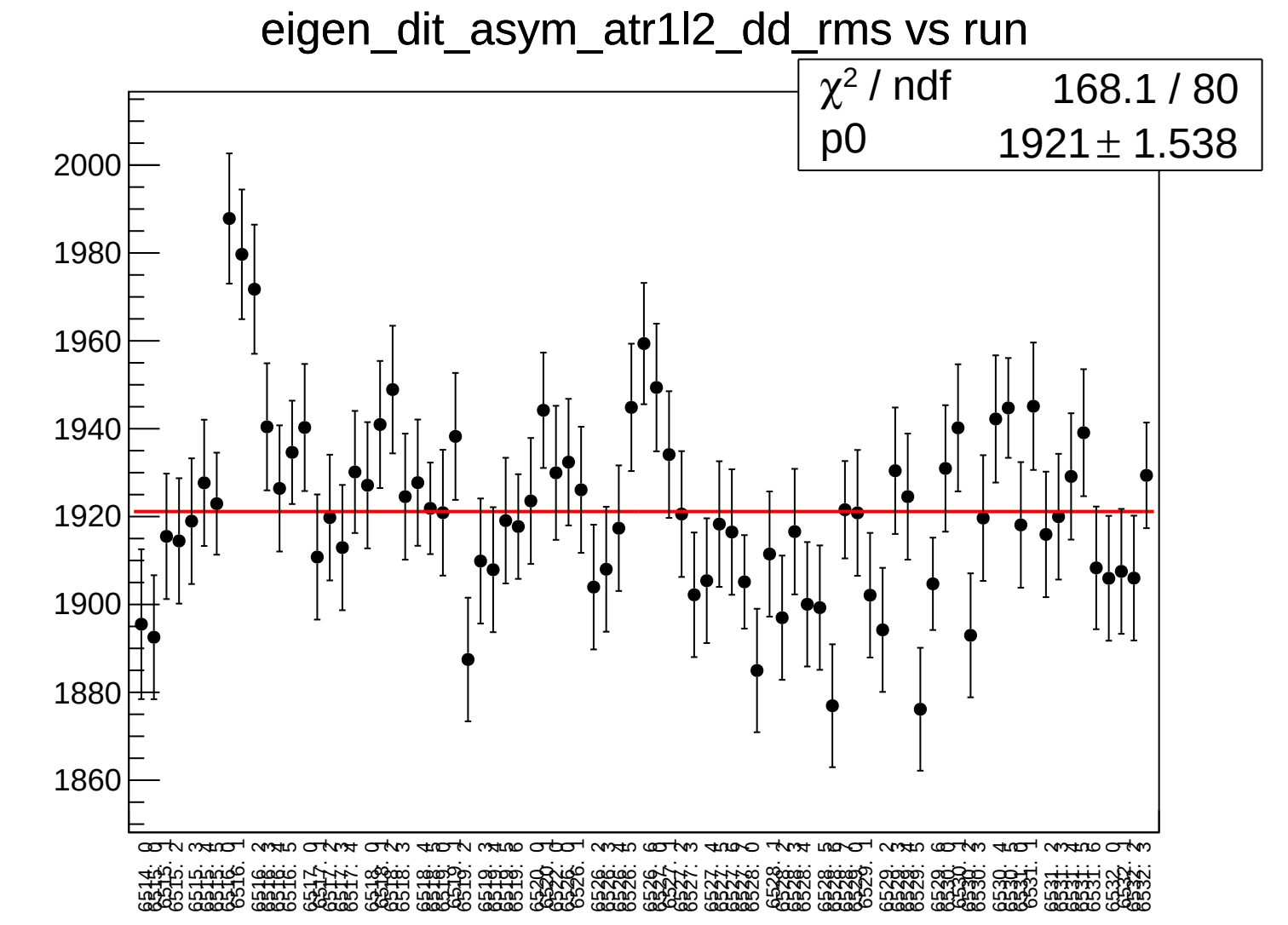

asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 87.35 / 80
p0 −3556 ± 4841
pull
Entries 81
Mean −229.7
Std Dev 0

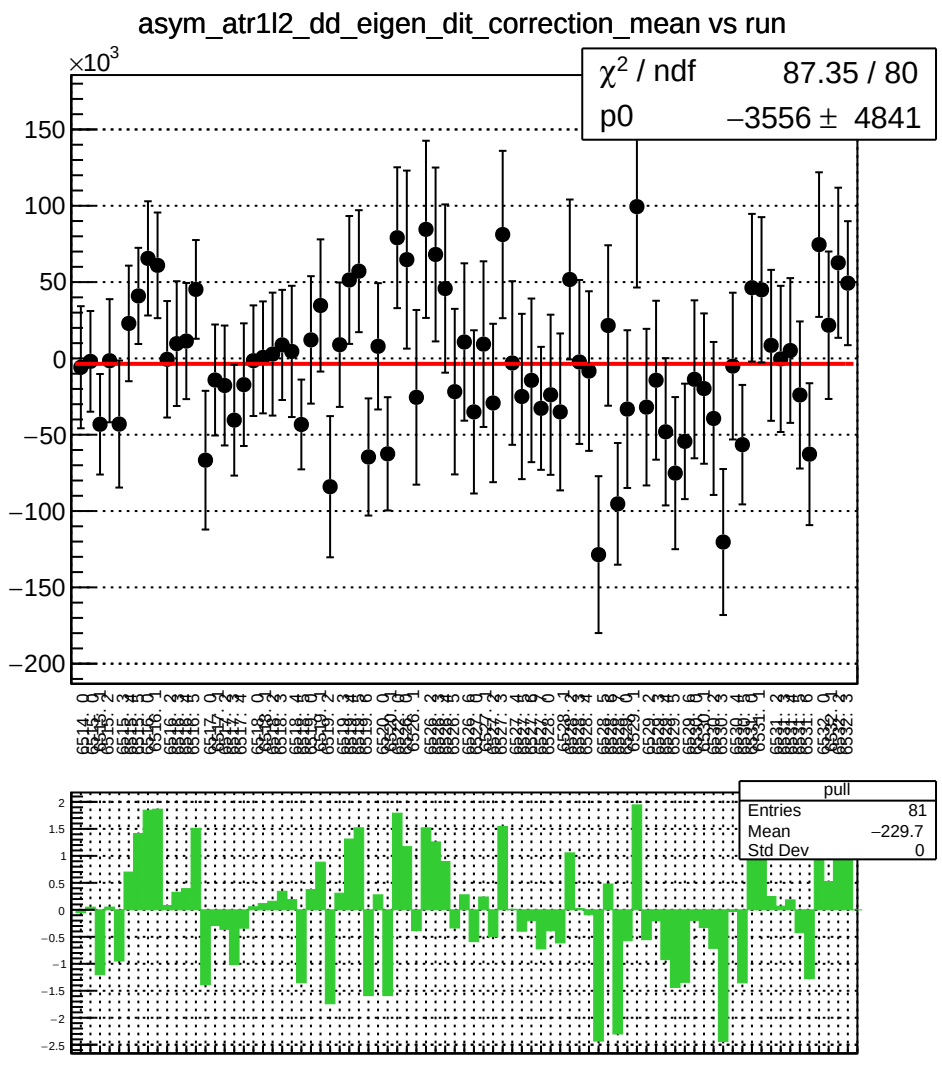

pull1D
Entries 81
Mean 0.008906
Std Dev 1.038

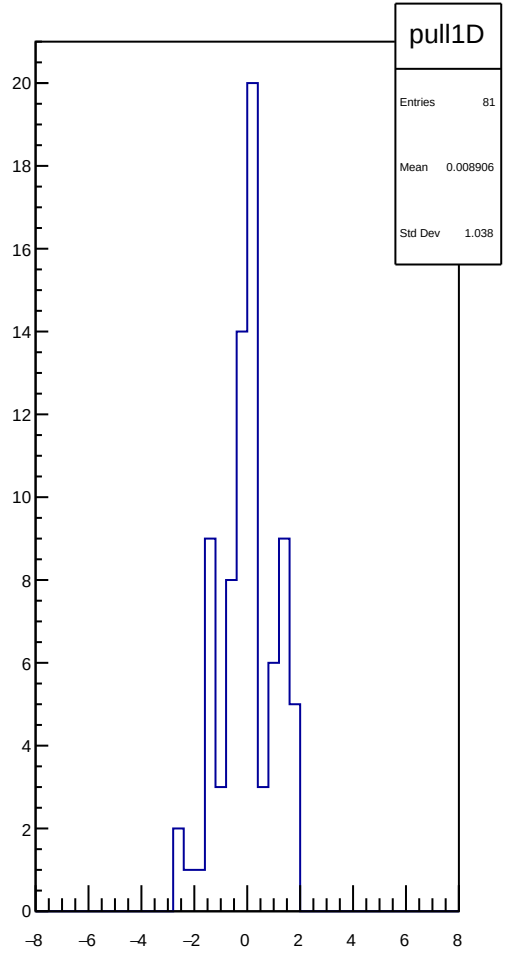

asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 3.593e+04 / 80
p0 4227 ± 3.423
5500
5000
4500
4000
3500
3000

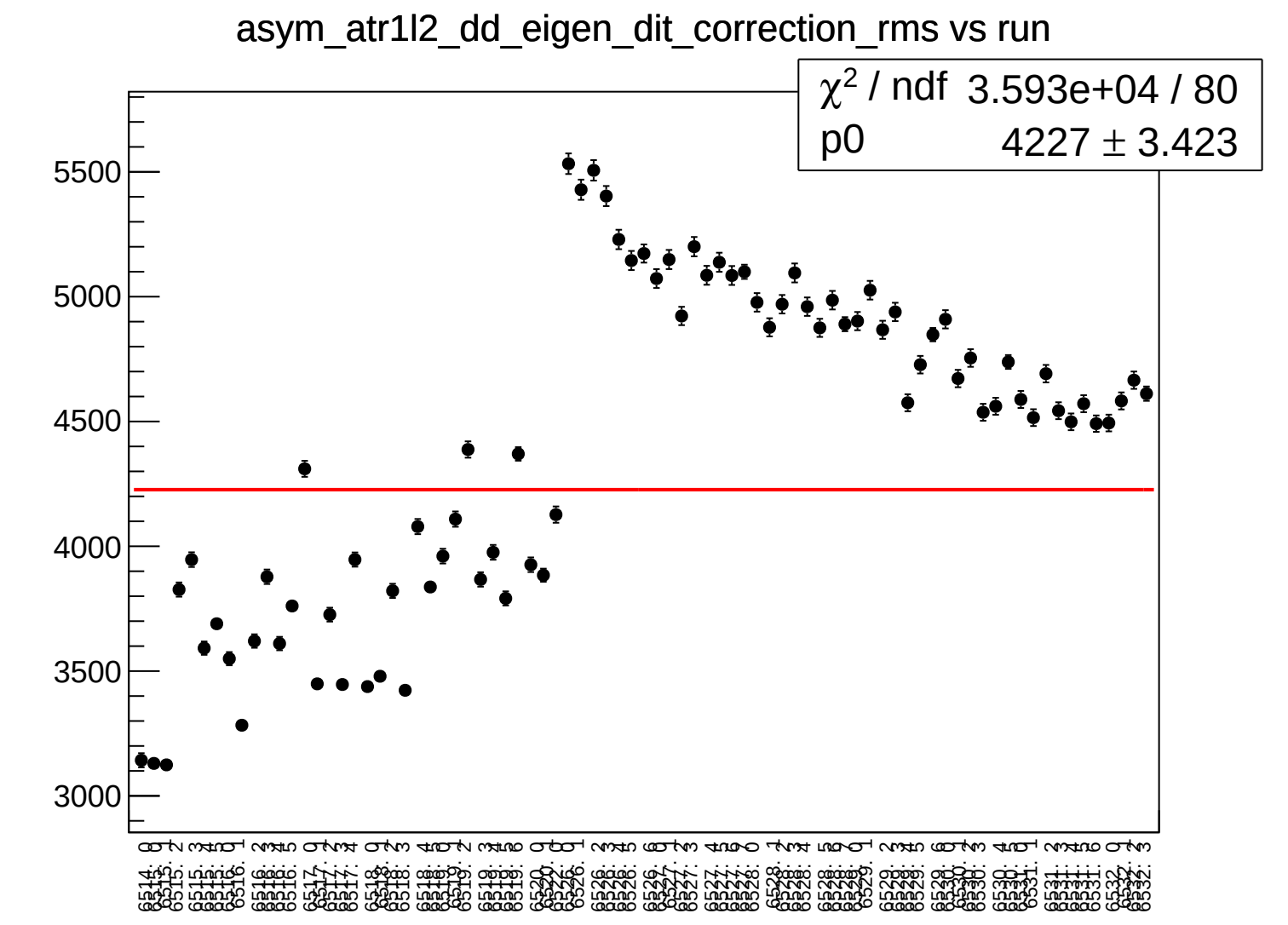

eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 78.74 / 80
p0 1486 ± 2175
pull
Entries 81
Mean −807.7
Std Dev 0

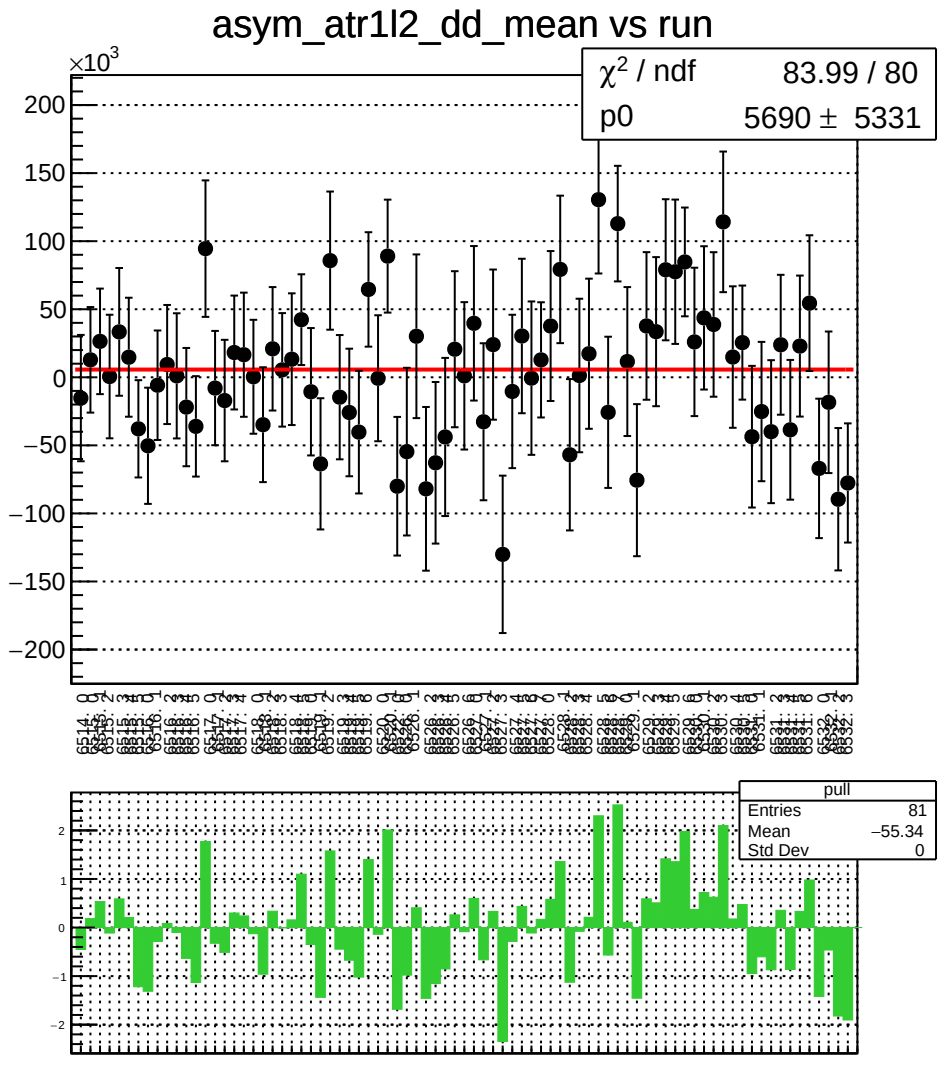

pull1D
Entries 81
Mean 0.002206
Std Dev 0.9859

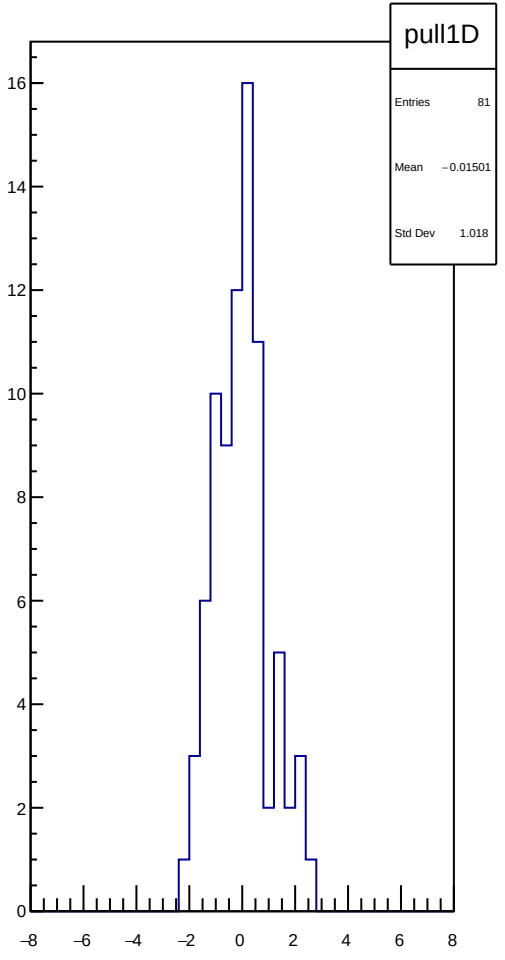

eigen_dit_asym_atr1l2_dd_rms vs run
χ² / ndf 168.1 / 80
p0 1921 ± 1.538
2000
1980
1960
1940
1920
1900
1880
1860

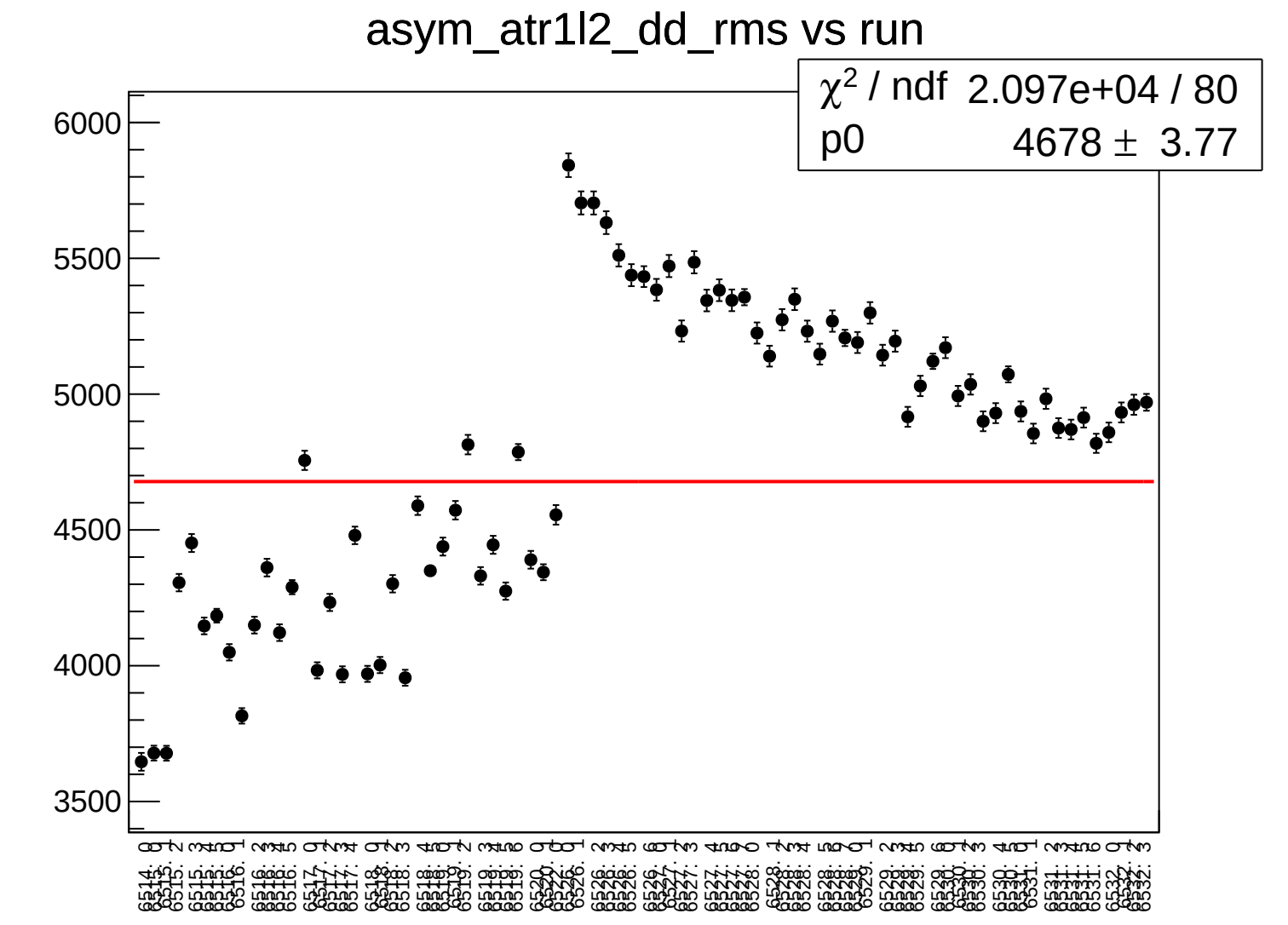

asym_atr1l2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 87.35 / 80
p0 −3556 ± 4841
150
100
50
0
−50
−100
−150
−200
pull
Entries 81
Mean −229.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

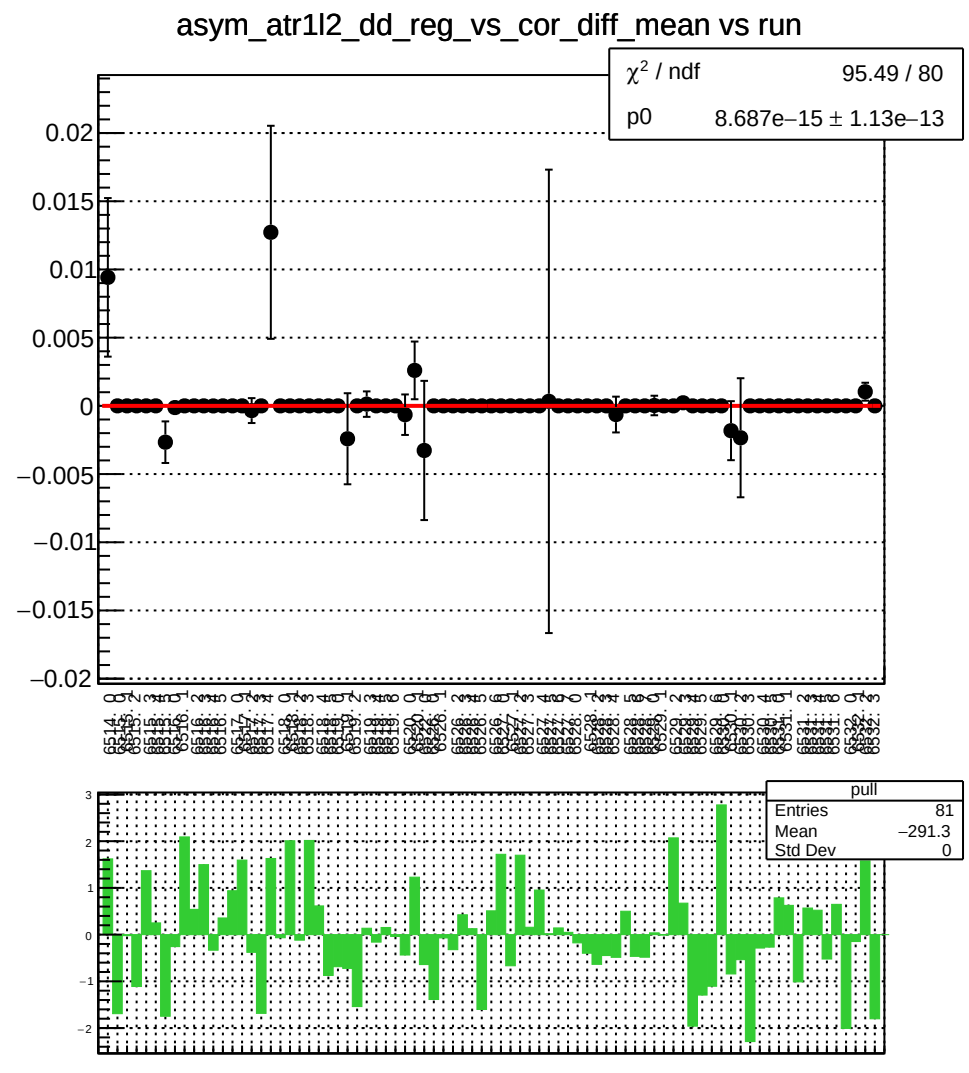

pull1D
Entries 81
Mean 0.008906
Std Dev 1.038
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

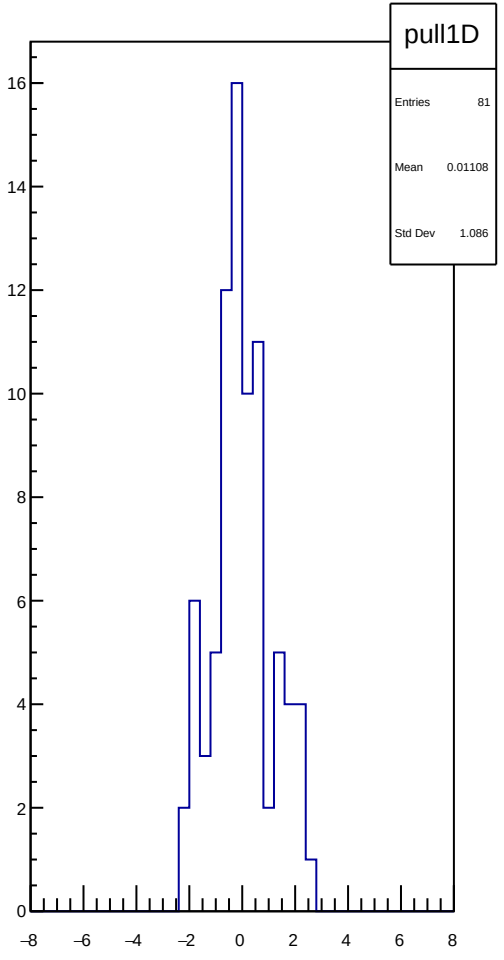

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.593e+04 / 80
p0 4227 ± 3.423
5500
5000
4500
4000
3500
3000

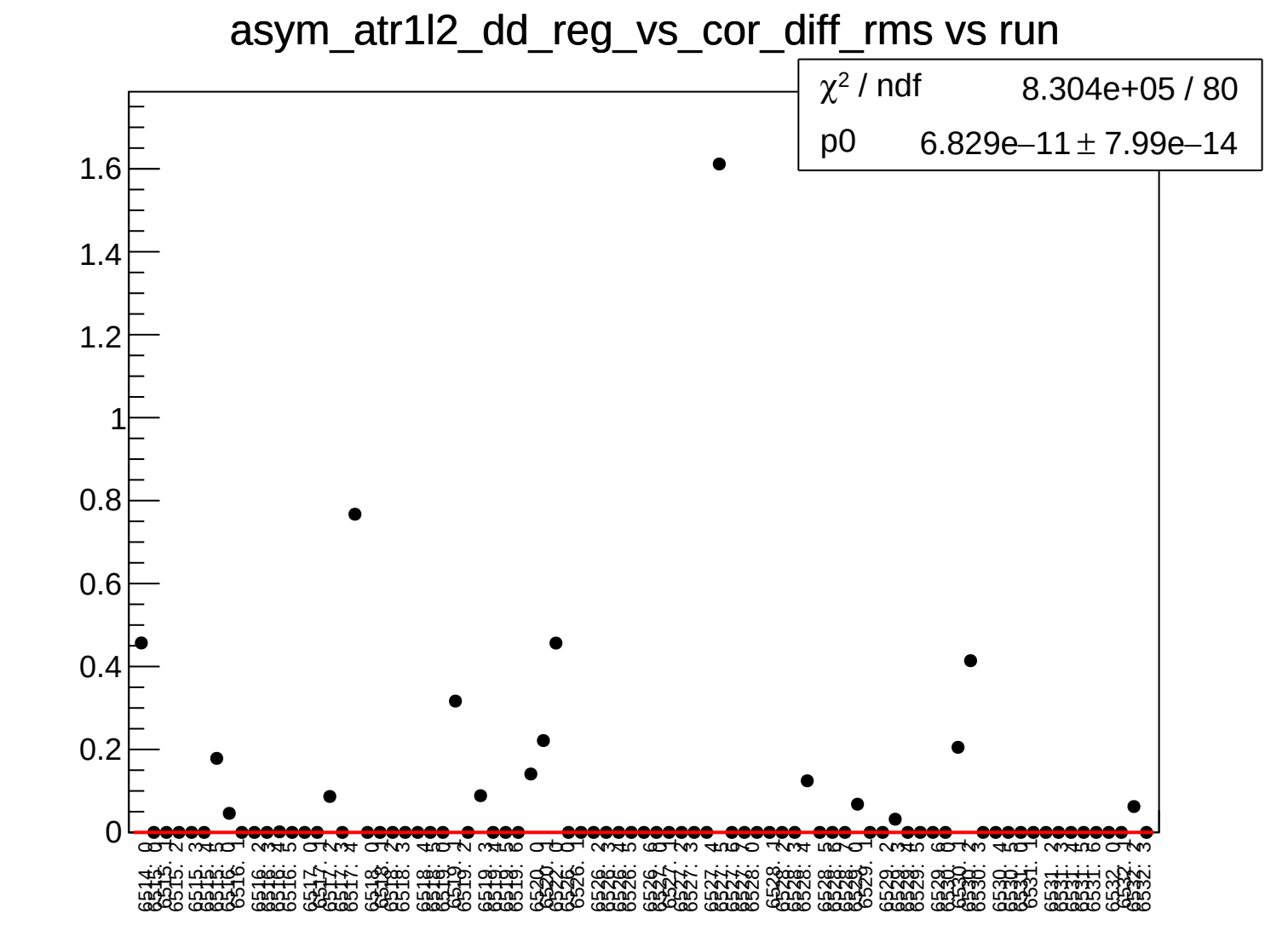

asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 83.99 / 80
p0 5690 ± 5331
pull
Entries 81
Mean −55.34
Std Dev 0

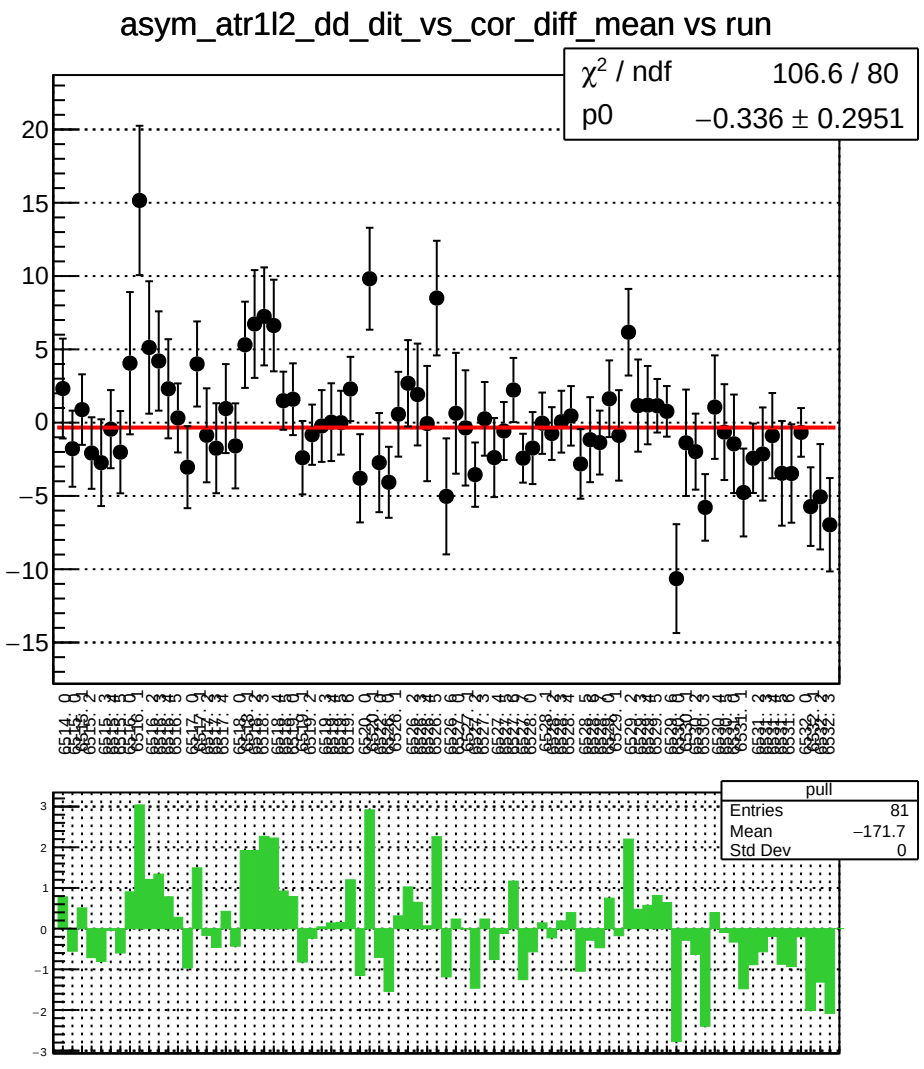

pull1D
Entries 81
Mean −0.01501
Std Dev 1.018

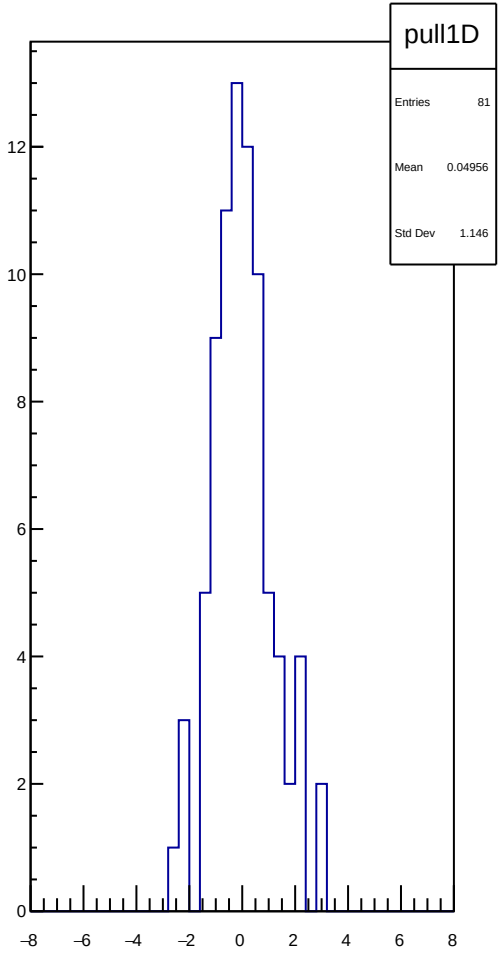

asym_atr1l2_dd_rms vs run
χ² / ndf 2.097e+04 / 80
p0 4678 ± 3.77
6000
5500
5000
4500
4000
3500

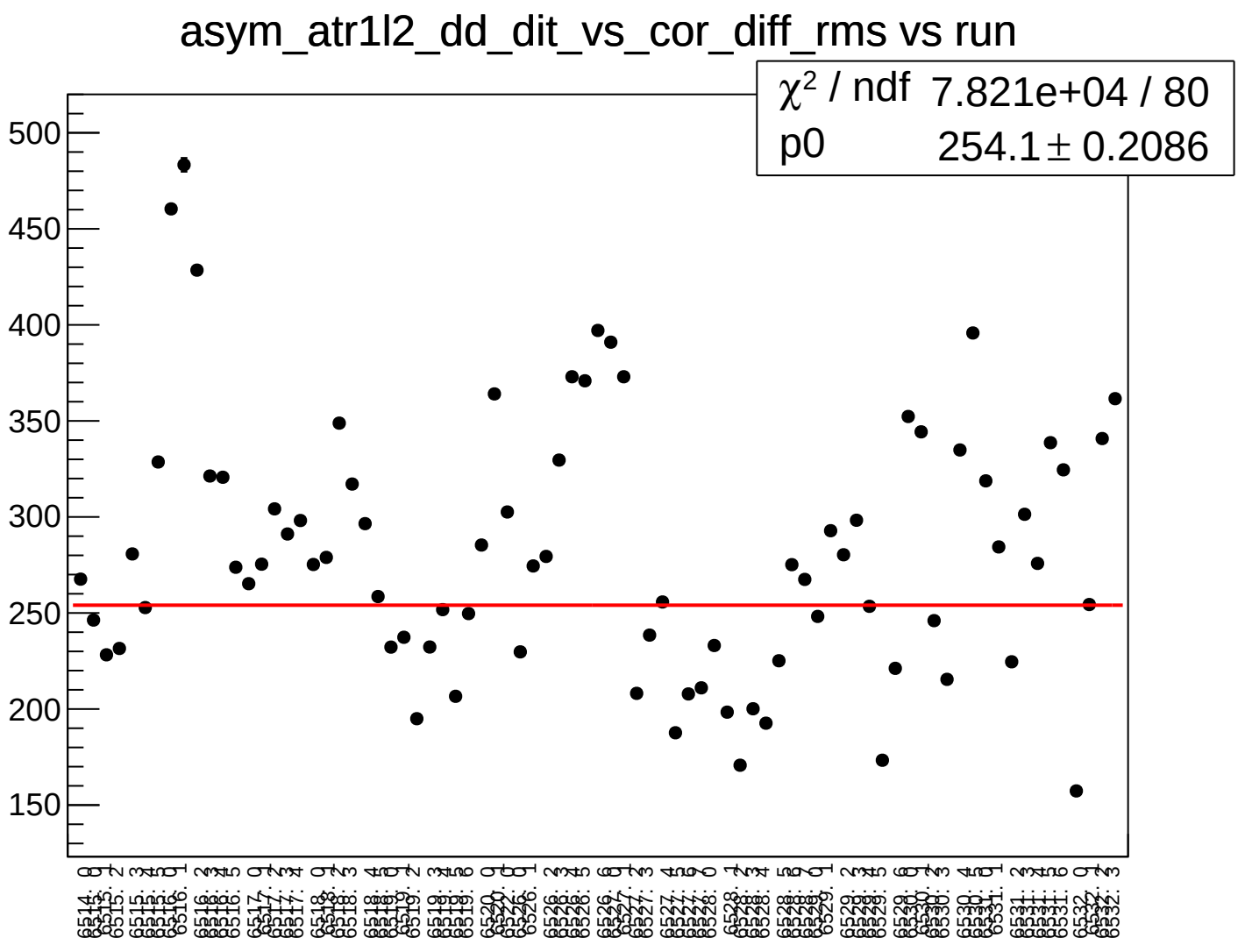

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 95.49 / 80
p0 8.687e−15 ± 1.13e−13
pull
Entries 81
Mean −291.3
Std Dev 0

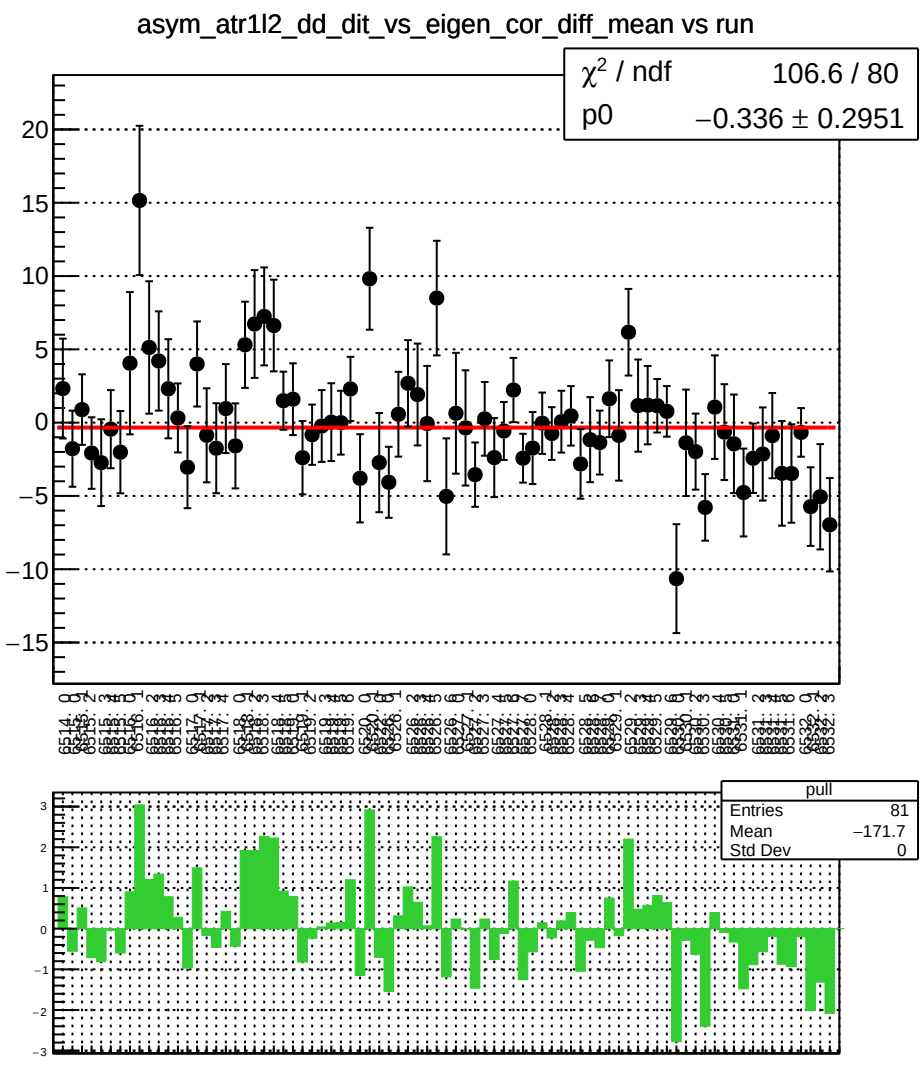

pull1D
Entries 81
Mean 0.01108
Std Dev 1.086

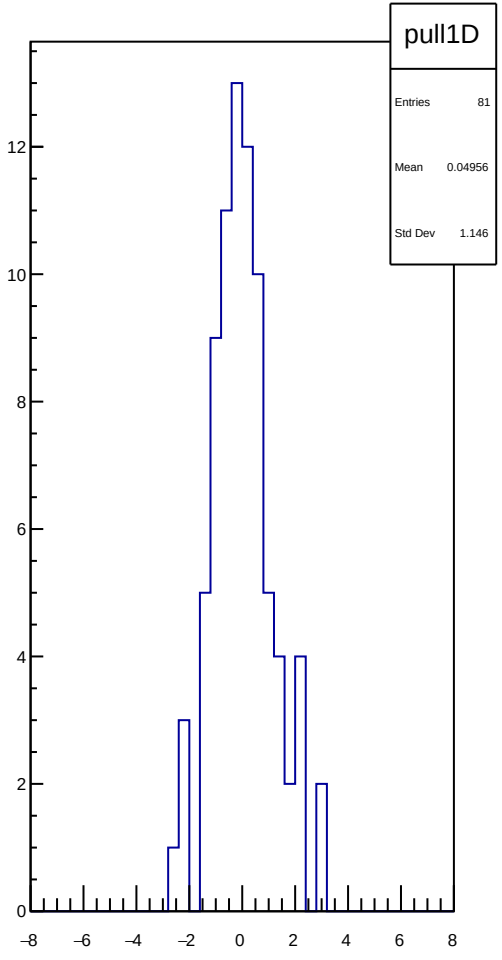

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.304e+05 / 80
p0 6.829e−11 ± 7.99e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

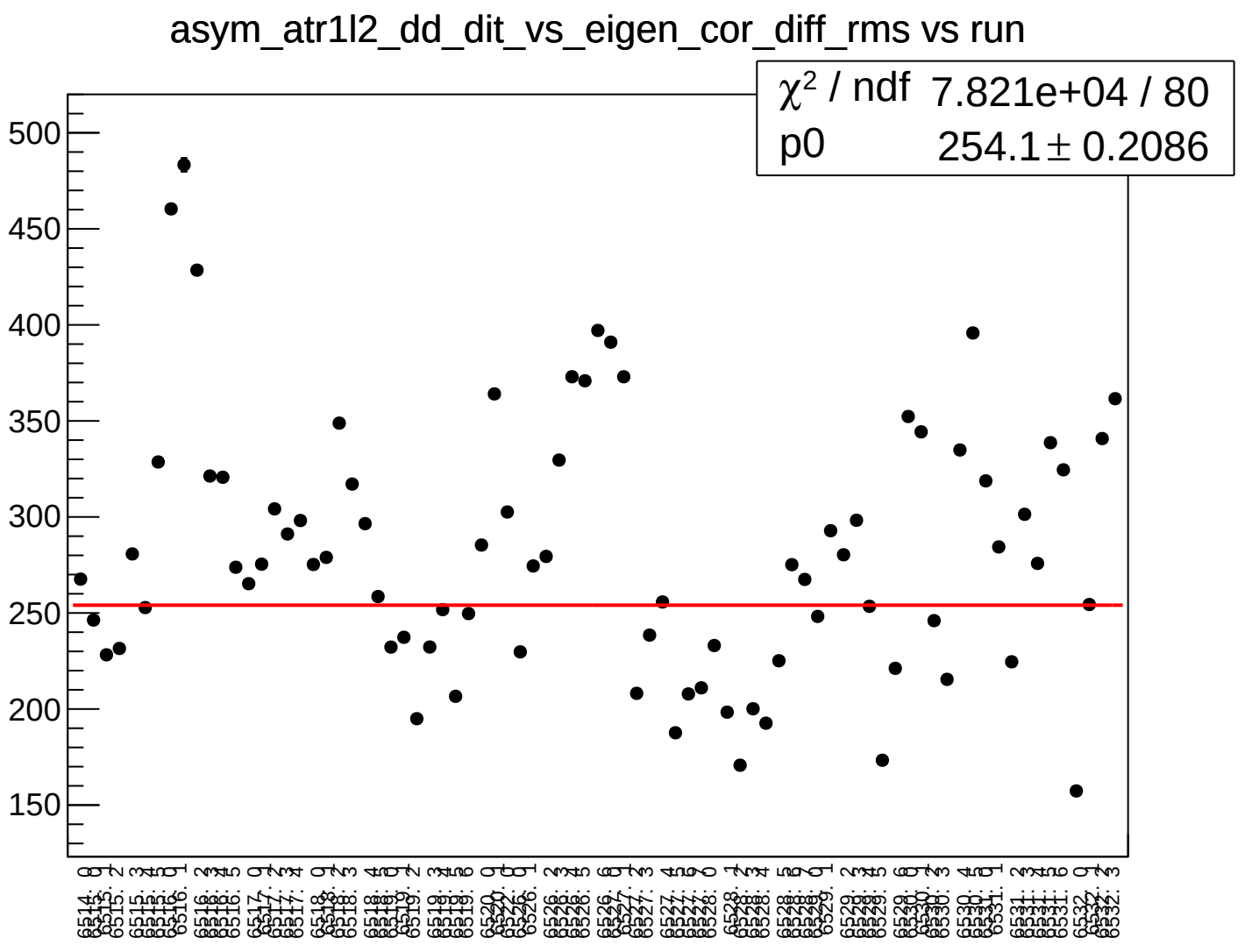

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 106.6 / 80
p0 −0.336 ± 0.2951
pull
Entries 81
Mean −171.7
Std Dev 0

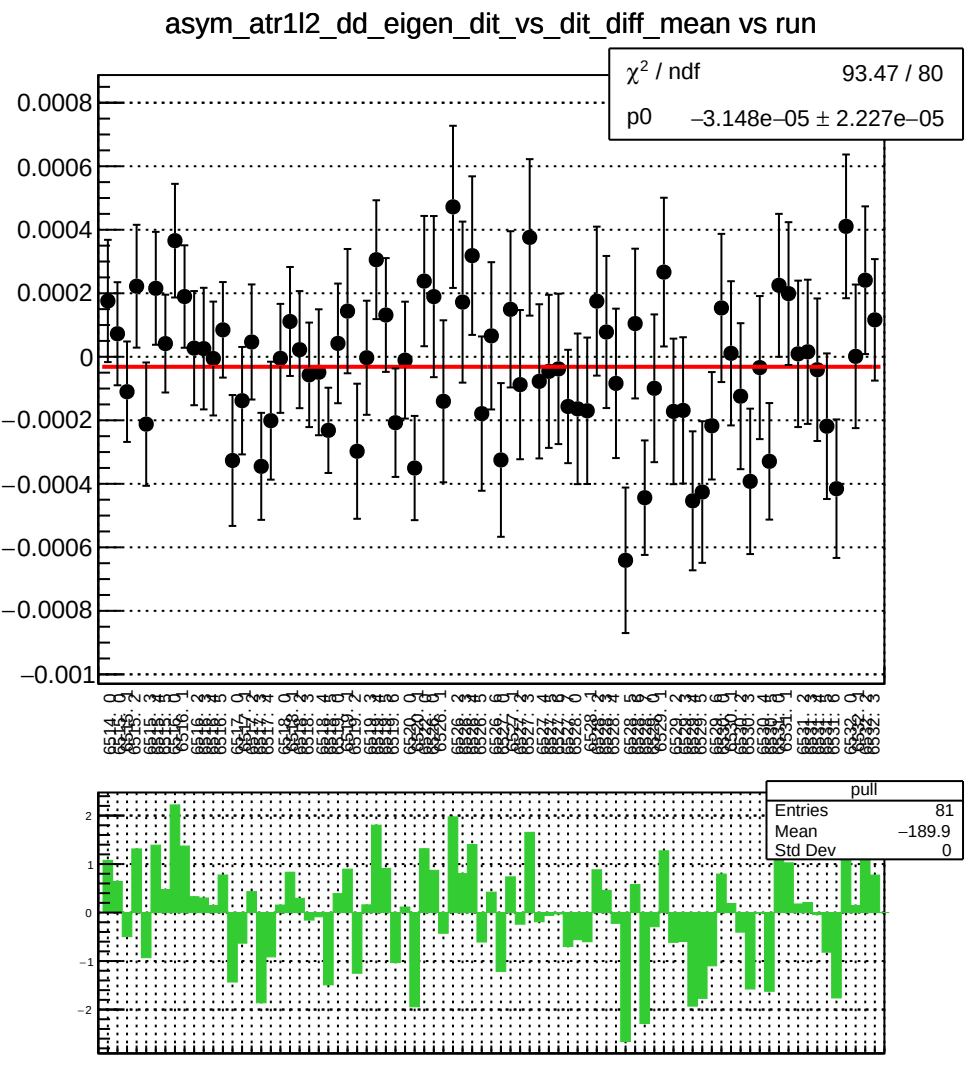

pull1D
Entries 81
Mean 0.04956
Std Dev 1.146

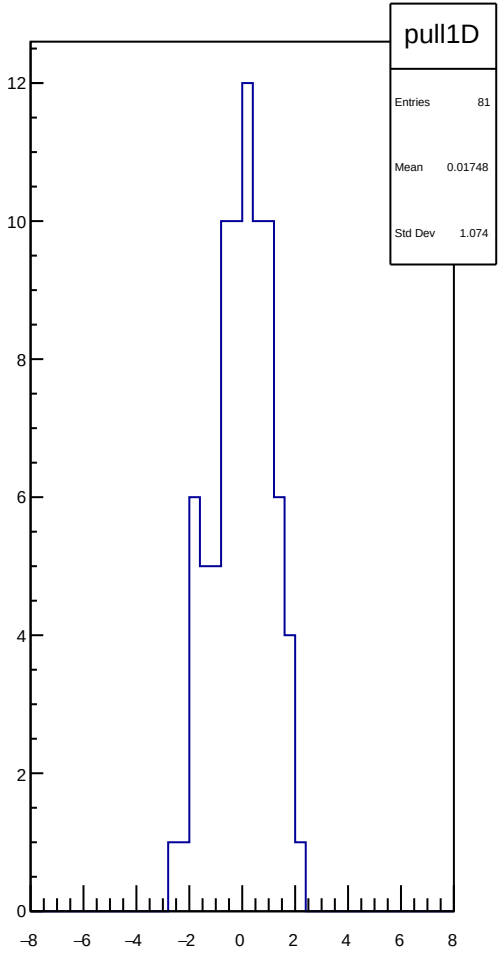

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.821e+04 / 80
p0 254.1 ± 0.2086
500
450
400
350
300
250
200
150

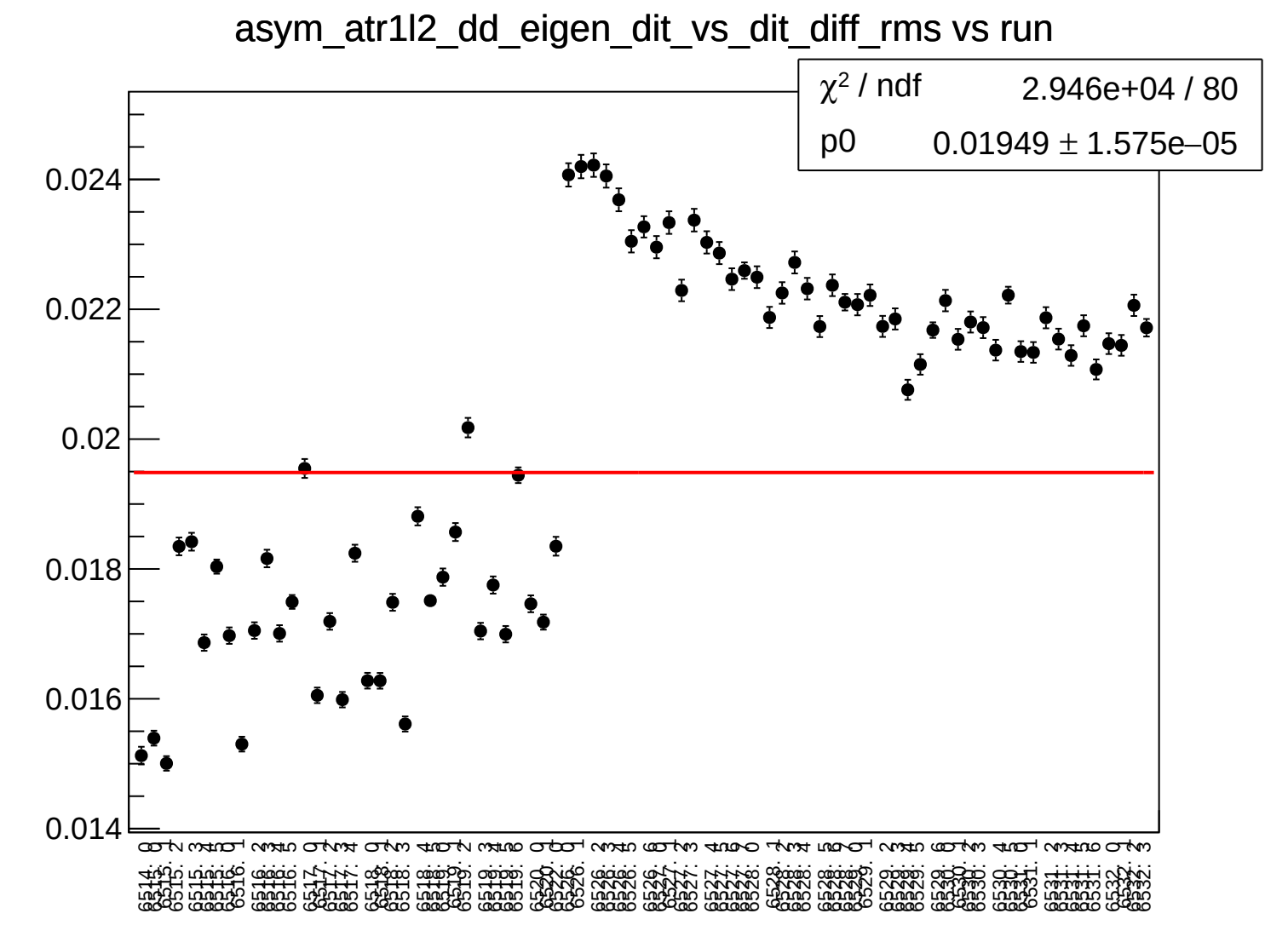

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.6 / 80
p0 −0.336 ± 0.2951
pull
Entries 81
Mean −171.7
Std Dev 0

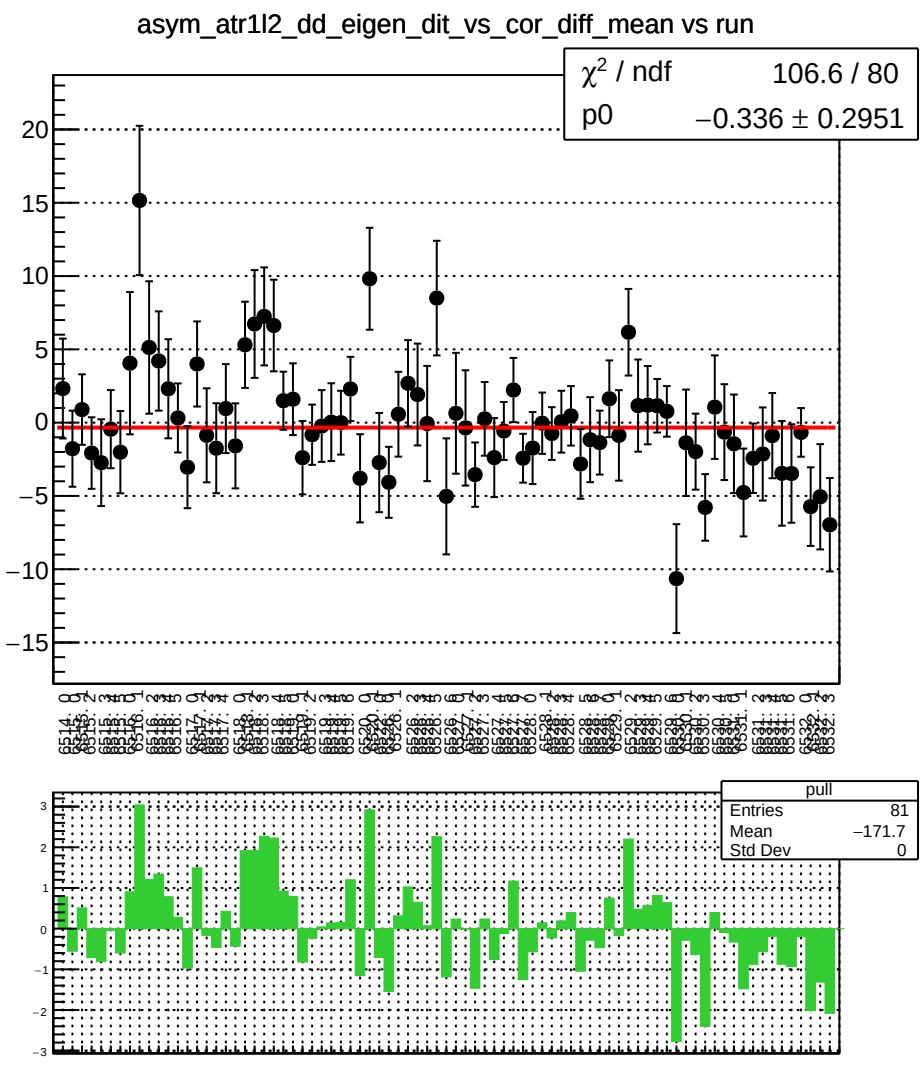

pull1D
Entries 81
Mean 0.04956
Std Dev 1.146

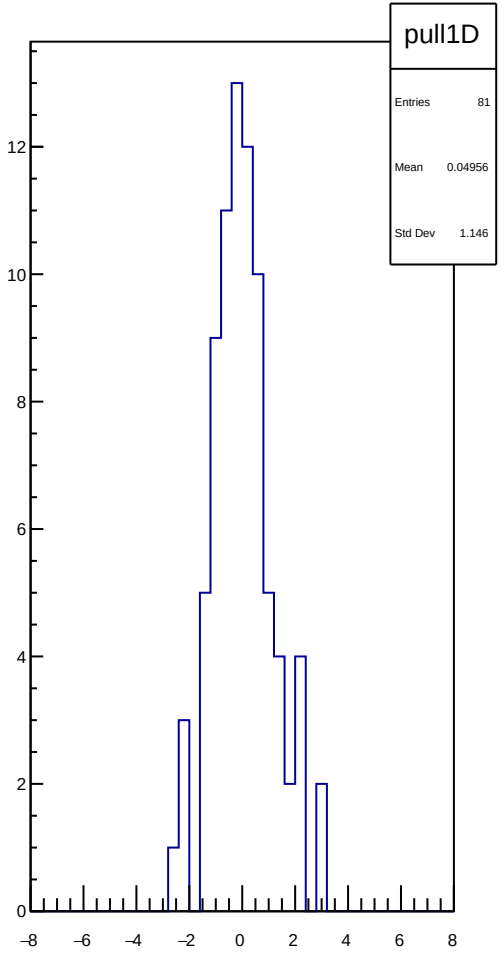

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.821e+04 / 80
p0 254.1 ± 0.2086
500
450
400
350
300
250
200
150

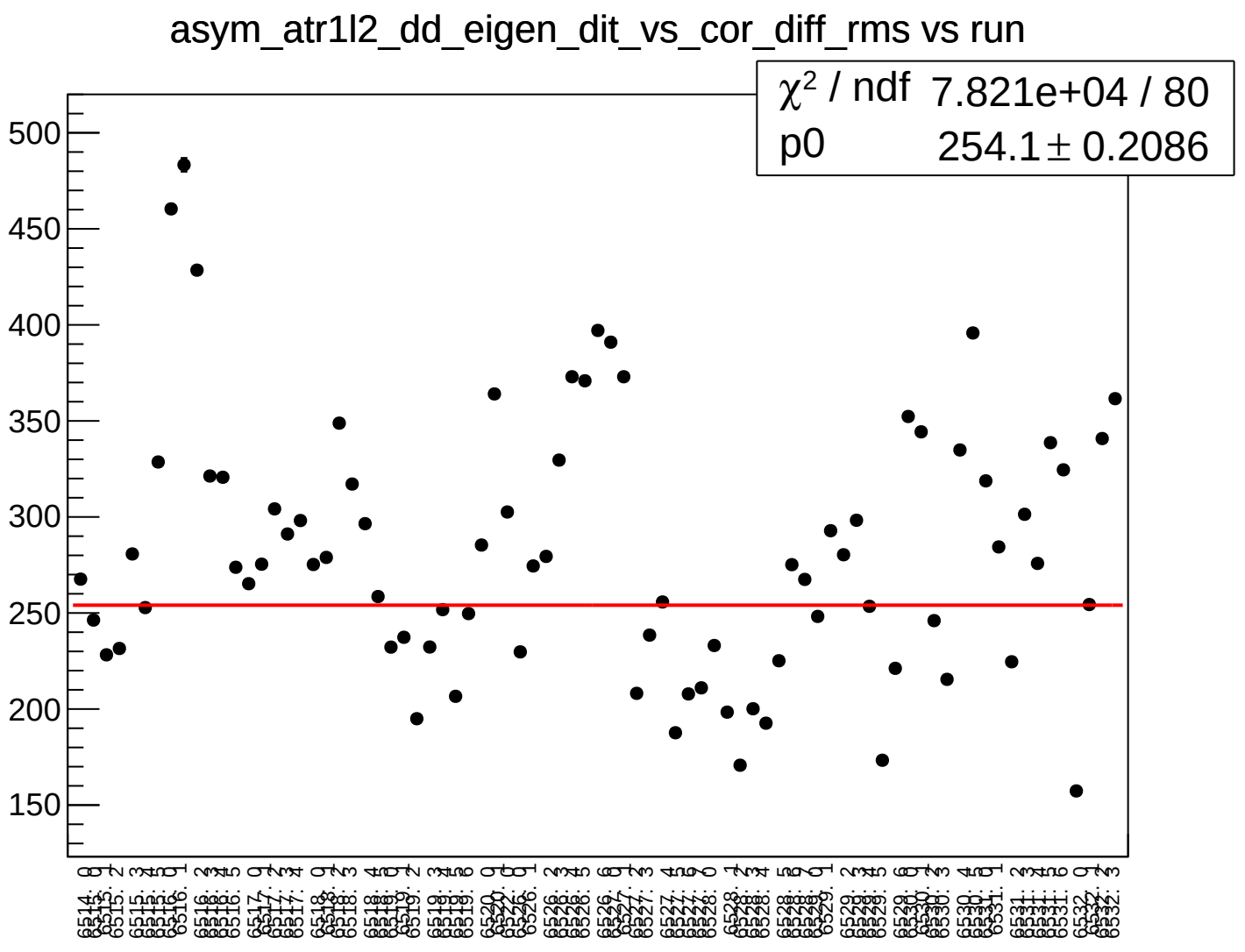

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 93.47 / 80
p0 −3.148e−05 ± 2.227e−05
pull
Entries 81
Mean −189.9
Std Dev 0

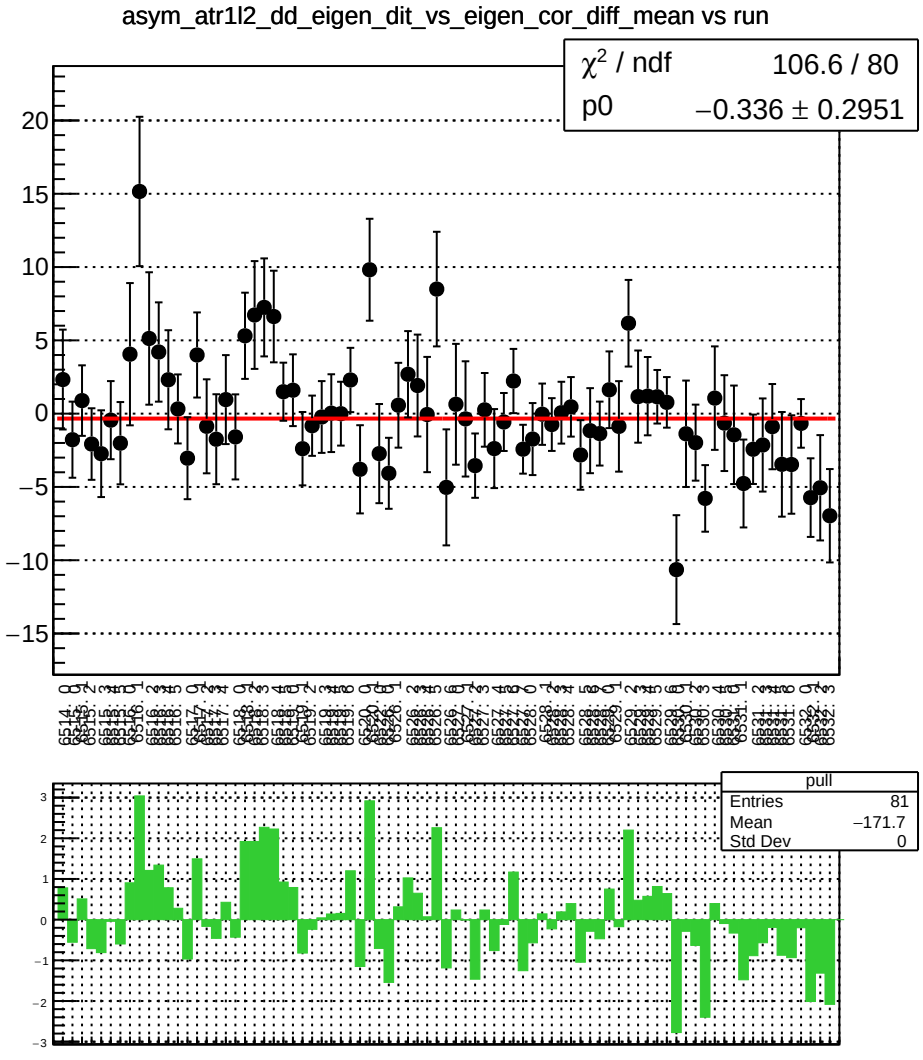

pull1D
Entries 81
Mean 0.01748
Std Dev 1.074

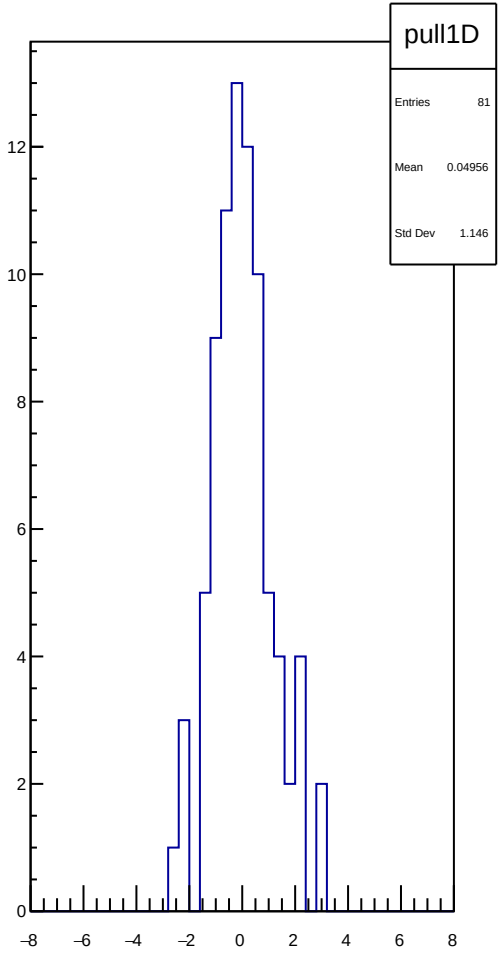

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.946e+04 / 80
p0 0.01949 ± 1.575e−05
0.024
0.022
0.02
0.018
0.016
0.014

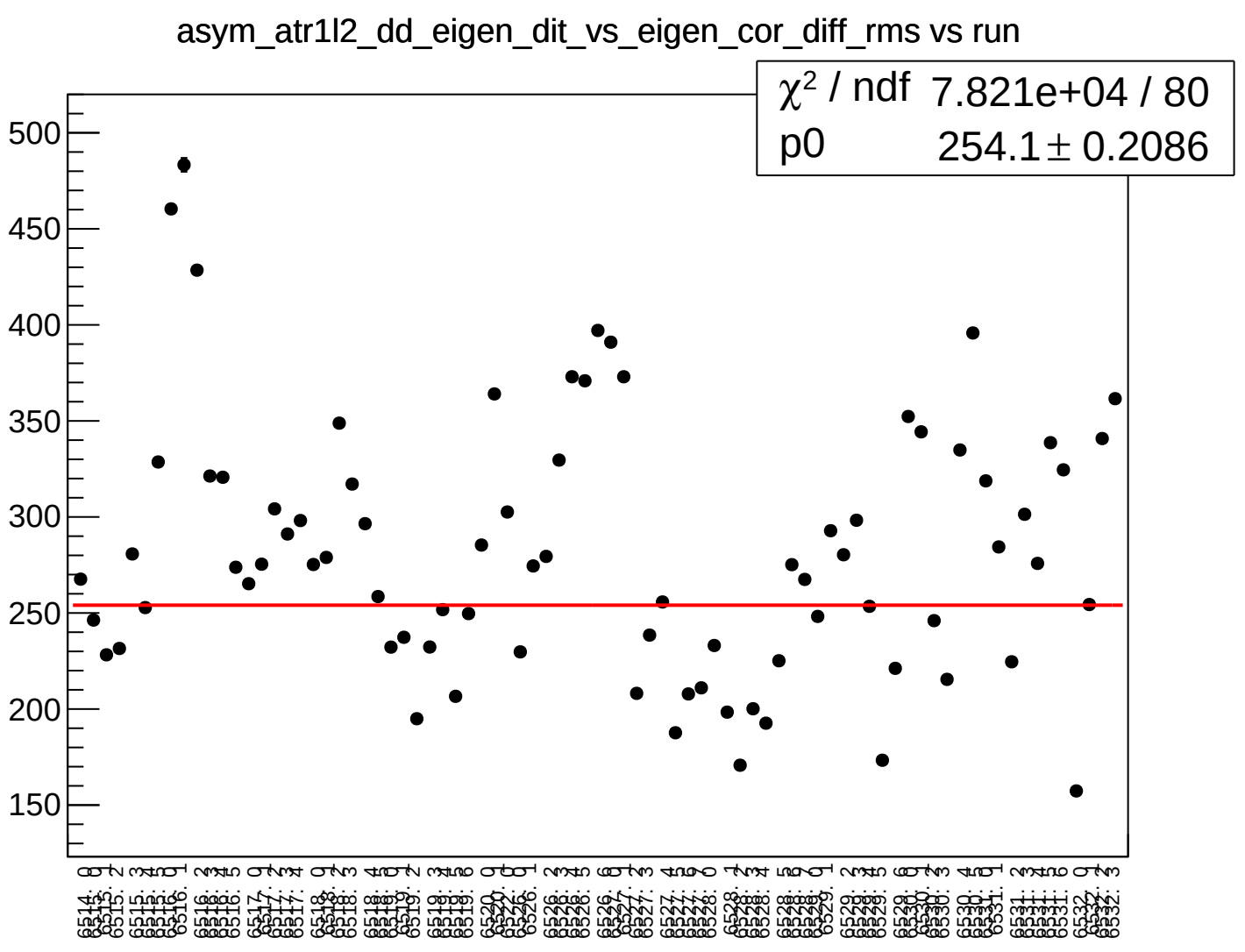

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 106.6 / 80
p0 −0.336 ± 0.2951
pull
Entries 81
Mean −171.7
Std Dev 0

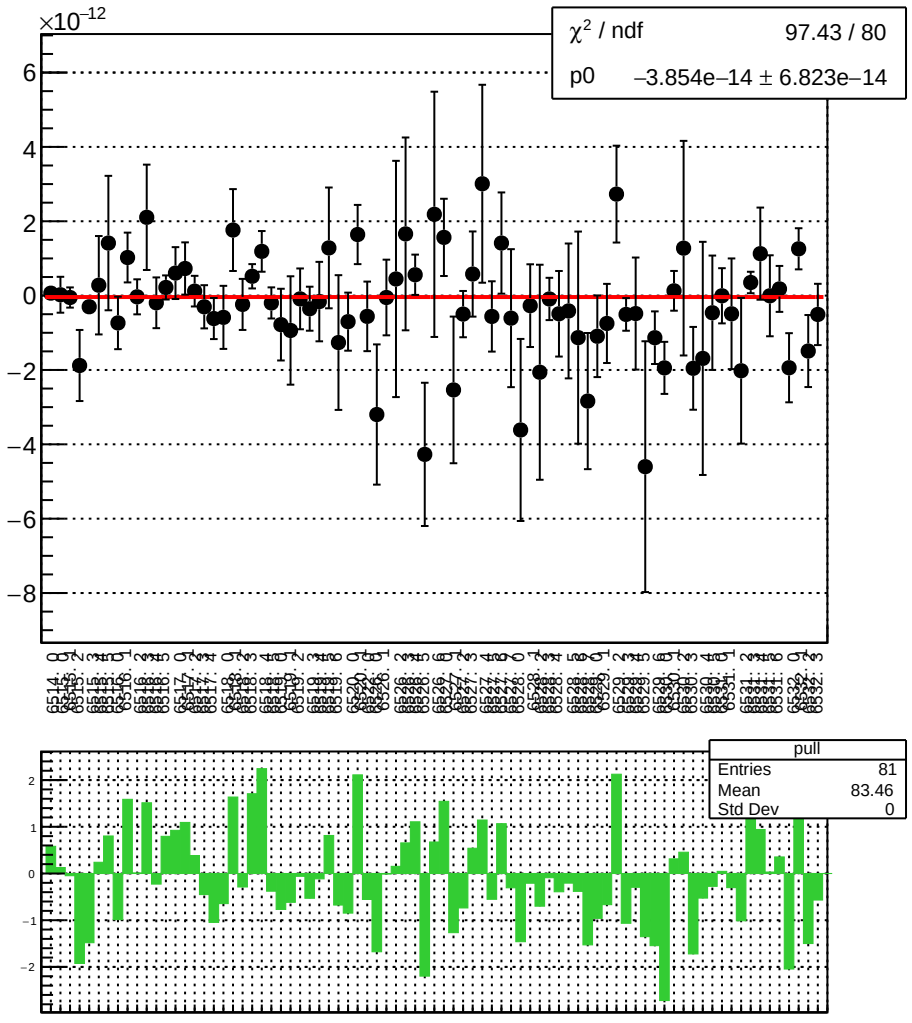

pull1D
Entries 81
Mean 0.04956
Std Dev 1.146

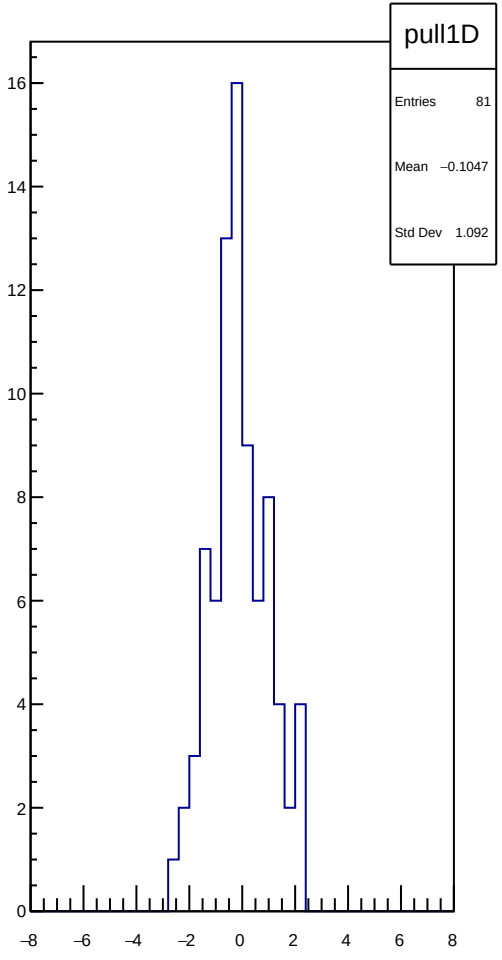

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.821e+04 / 80
p0 254.1 ± 0.2086
500
450
400
350
300
250
200
150

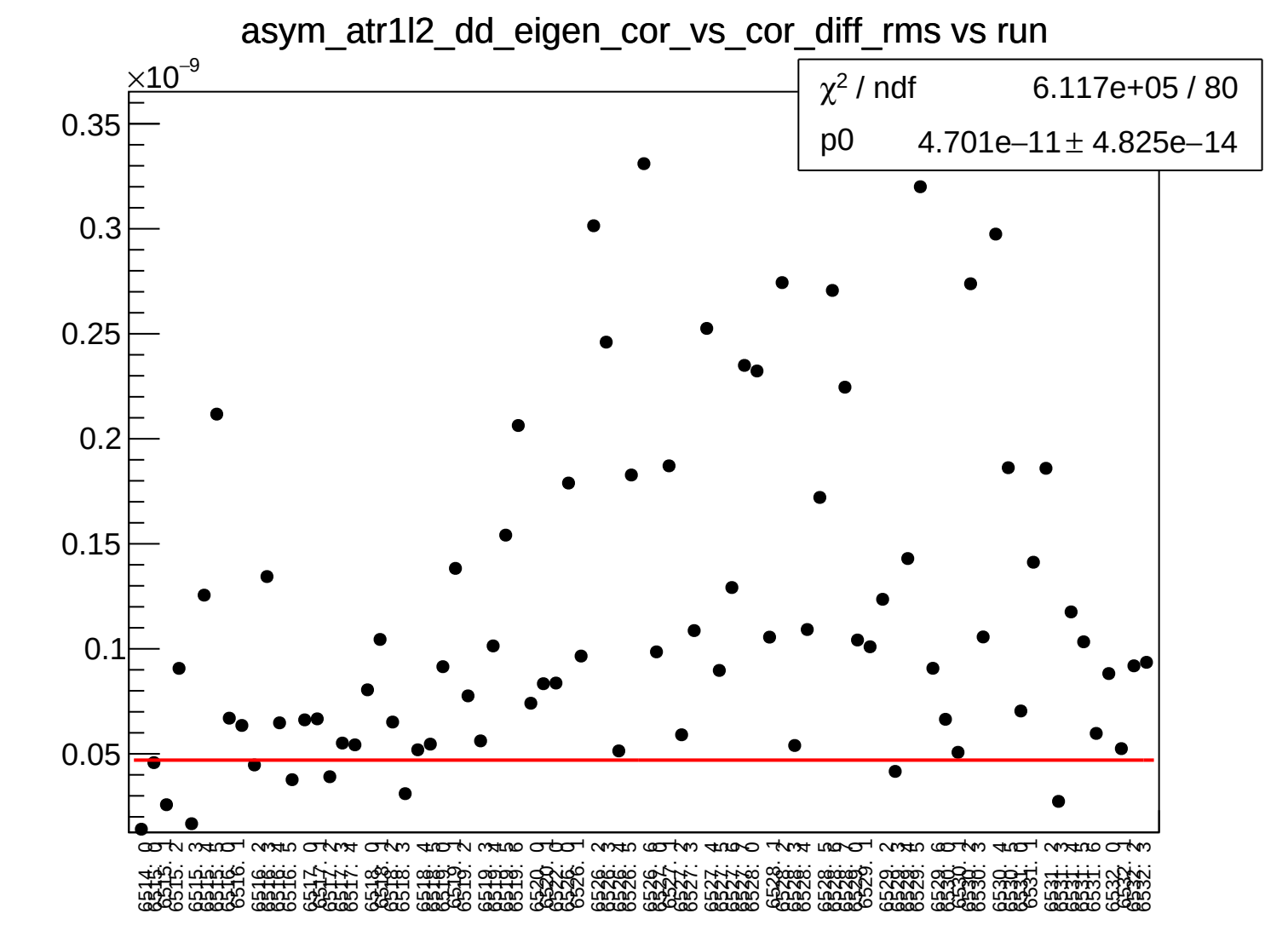

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.6 / 80
p0 −0.336 ± 0.2951
pull
Entries 81
Mean −171.7
Std Dev 0

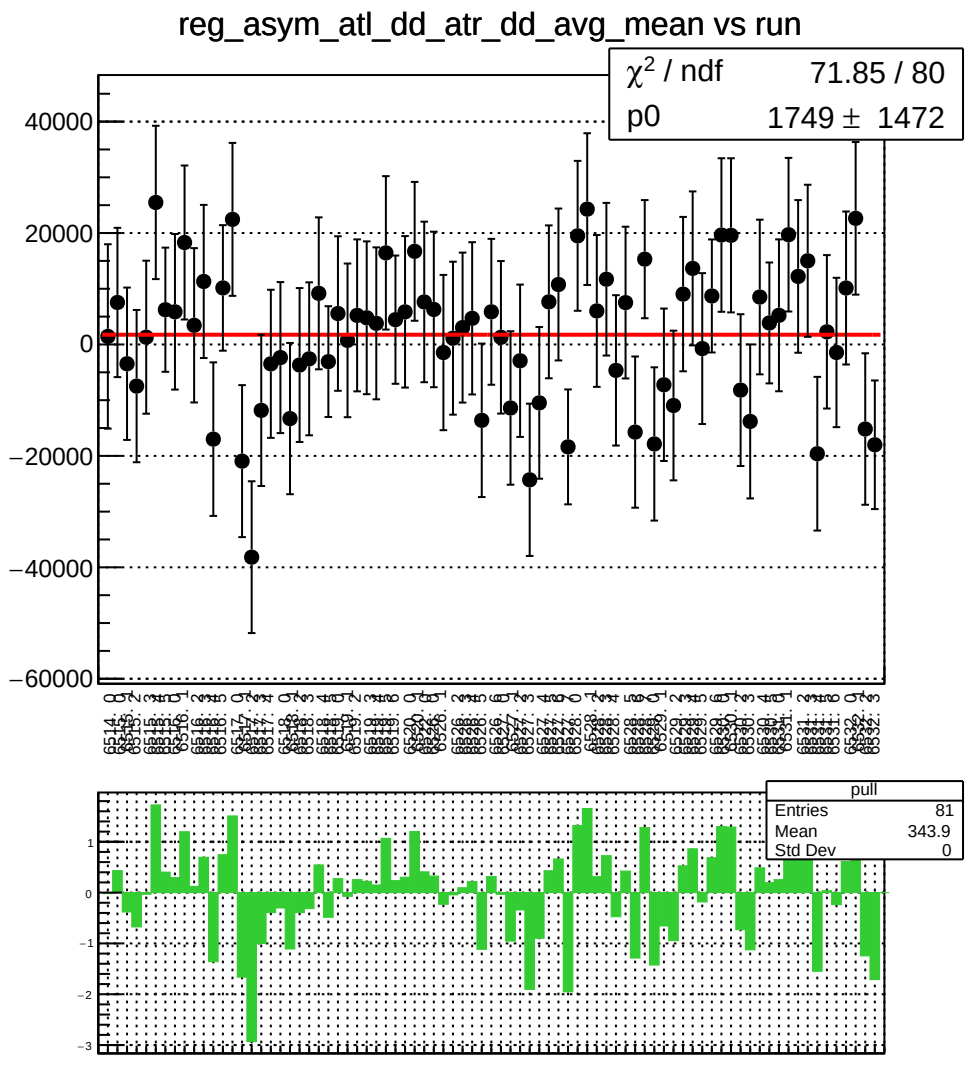

pull1D
Entries 81
Mean 0.04956
Std Dev 1.146

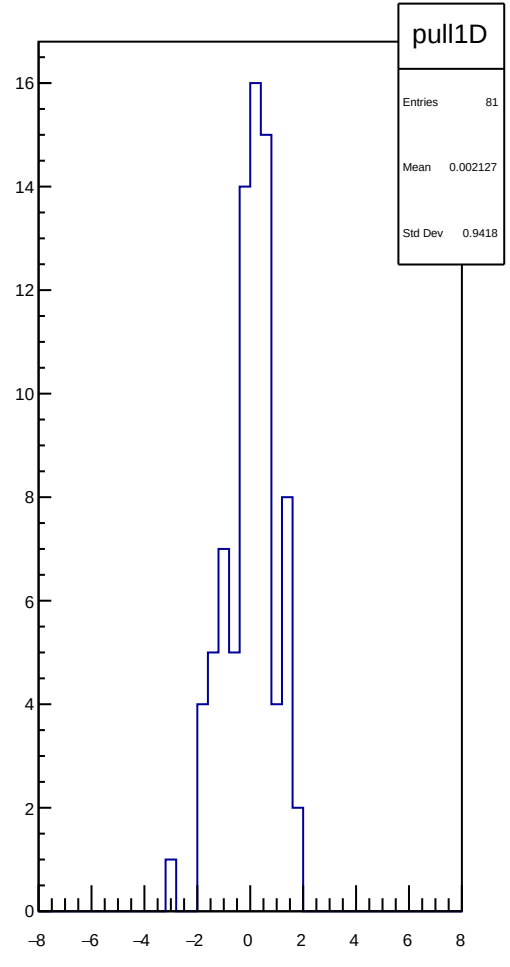

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.821e+04 / 80
p0 254.1 ± 0.2086
500
450
400
350
300
250
200
150

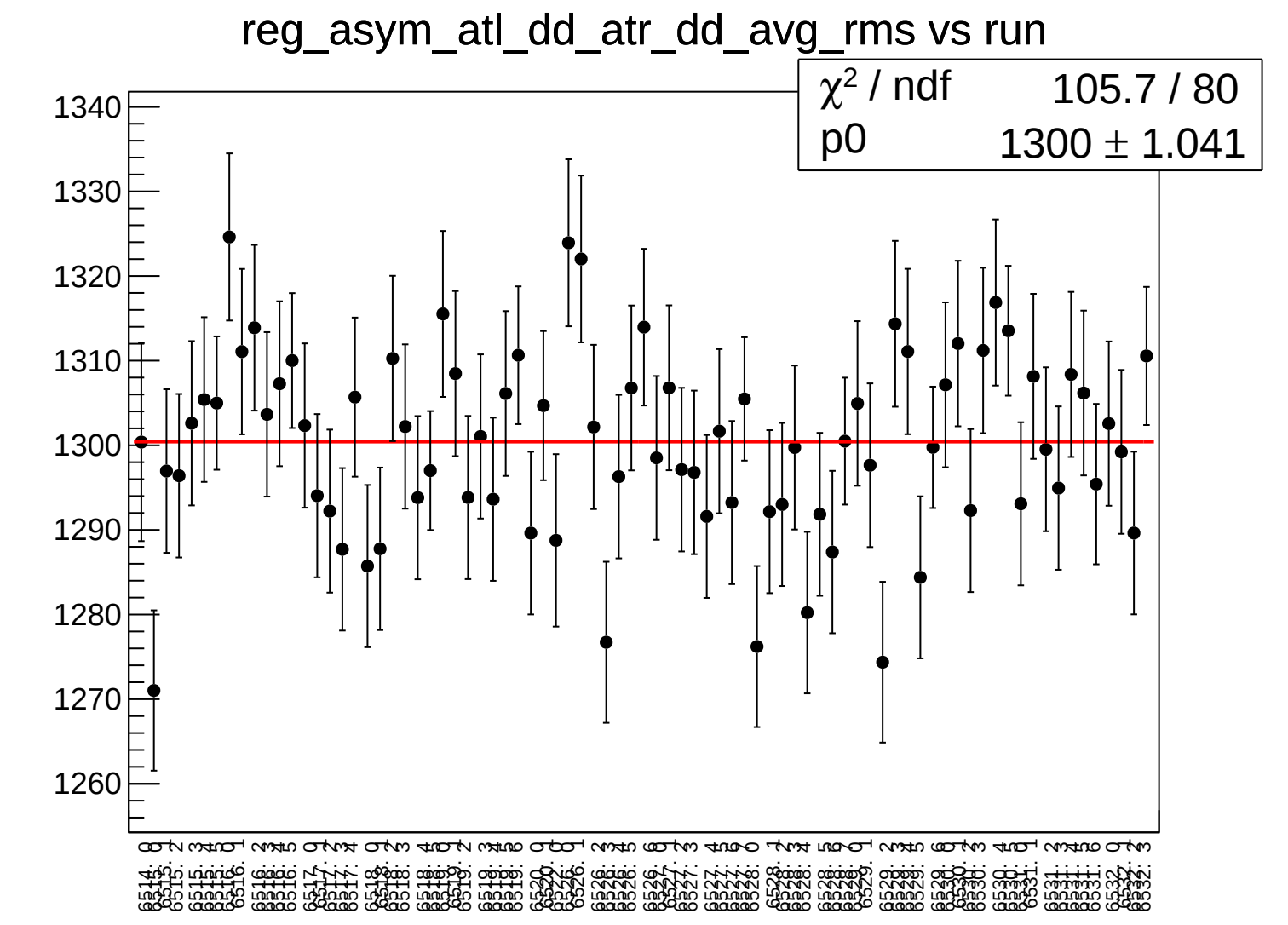

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.43 / 80
p0 −3.854e−14 ± 6.823e−14
pull
Entries 81
Mean 83.46
Std Dev 0

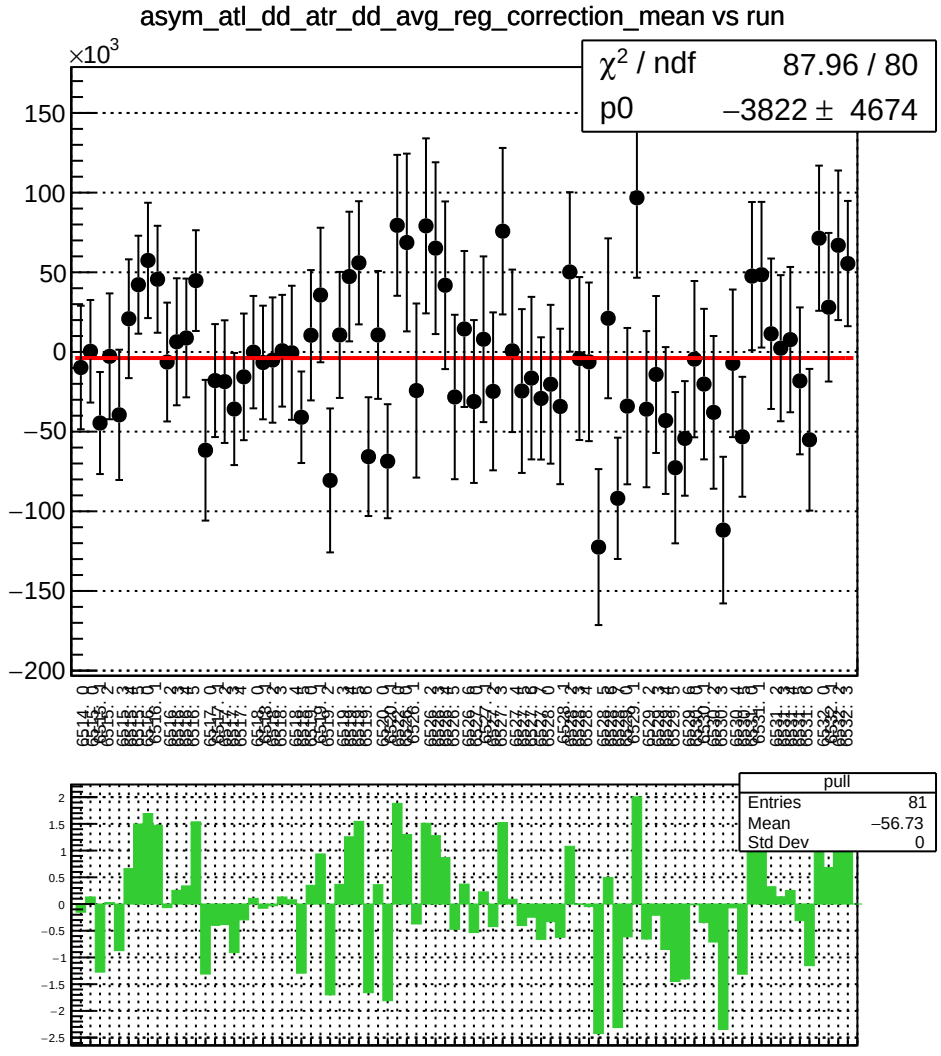

pull1D
Entries 81
Mean −0.1047
Std Dev 1.092

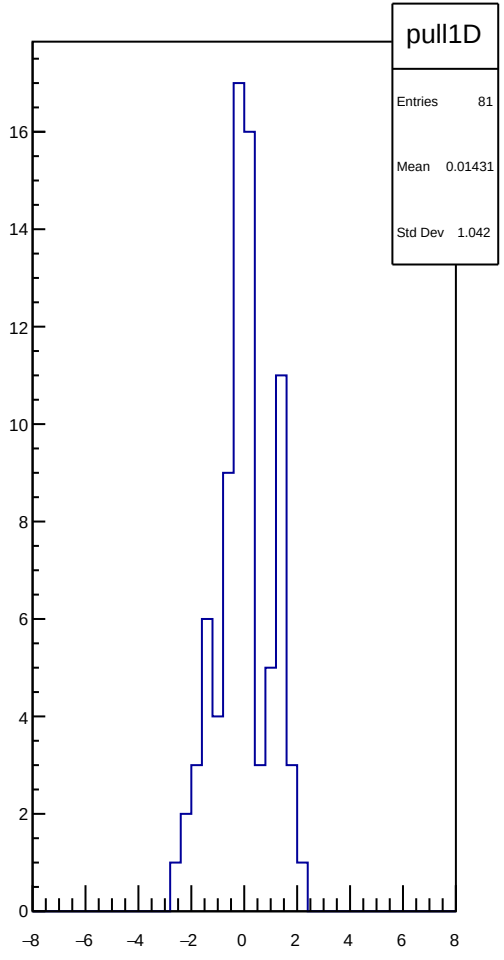

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.117e+05 / 80
p0 4.701e−11 ± 4.825e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

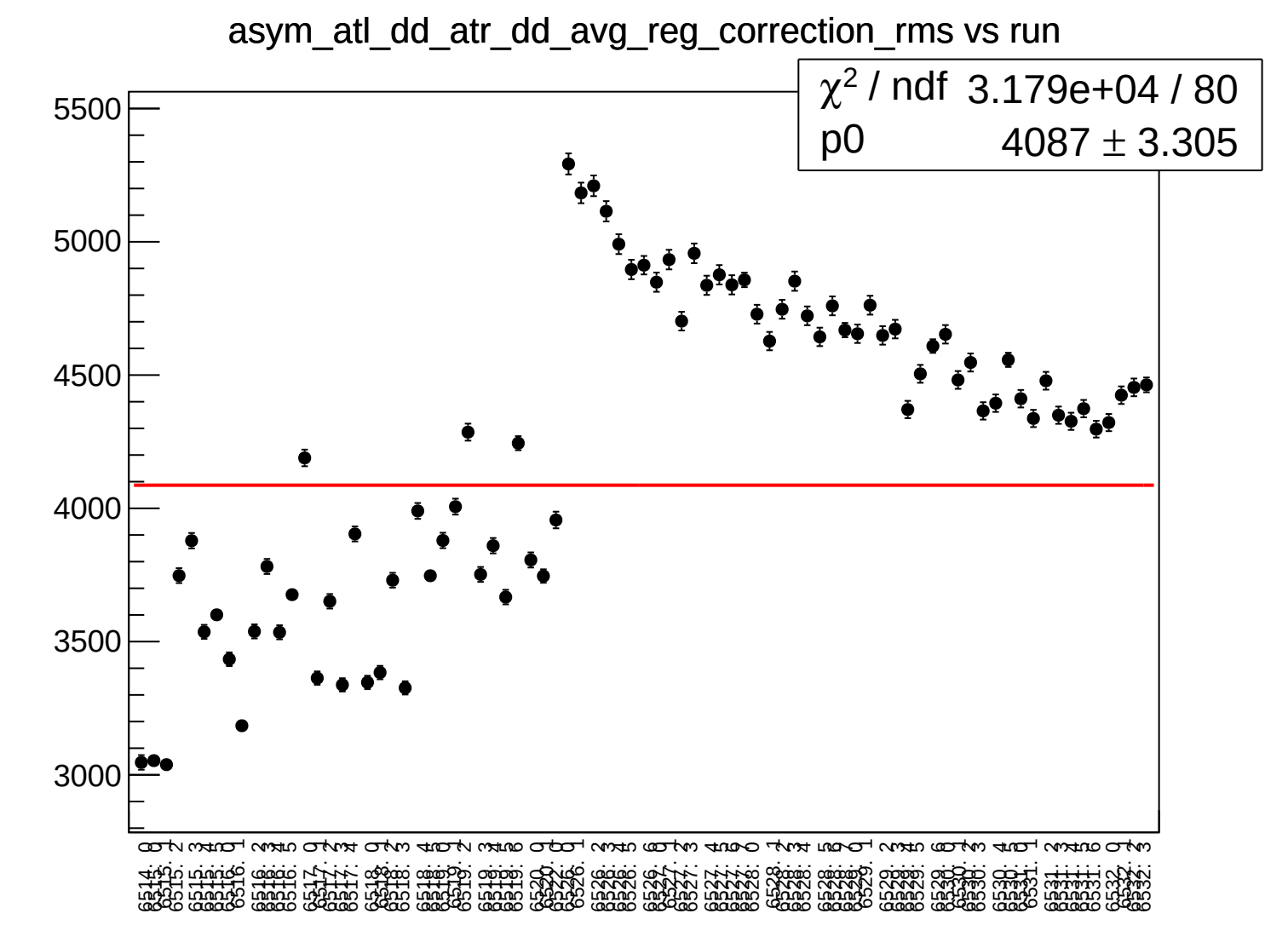

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 71.85 / 80
p0 1749 ± 1472
pull
Entries 81
Mean 343.9
Std Dev 0

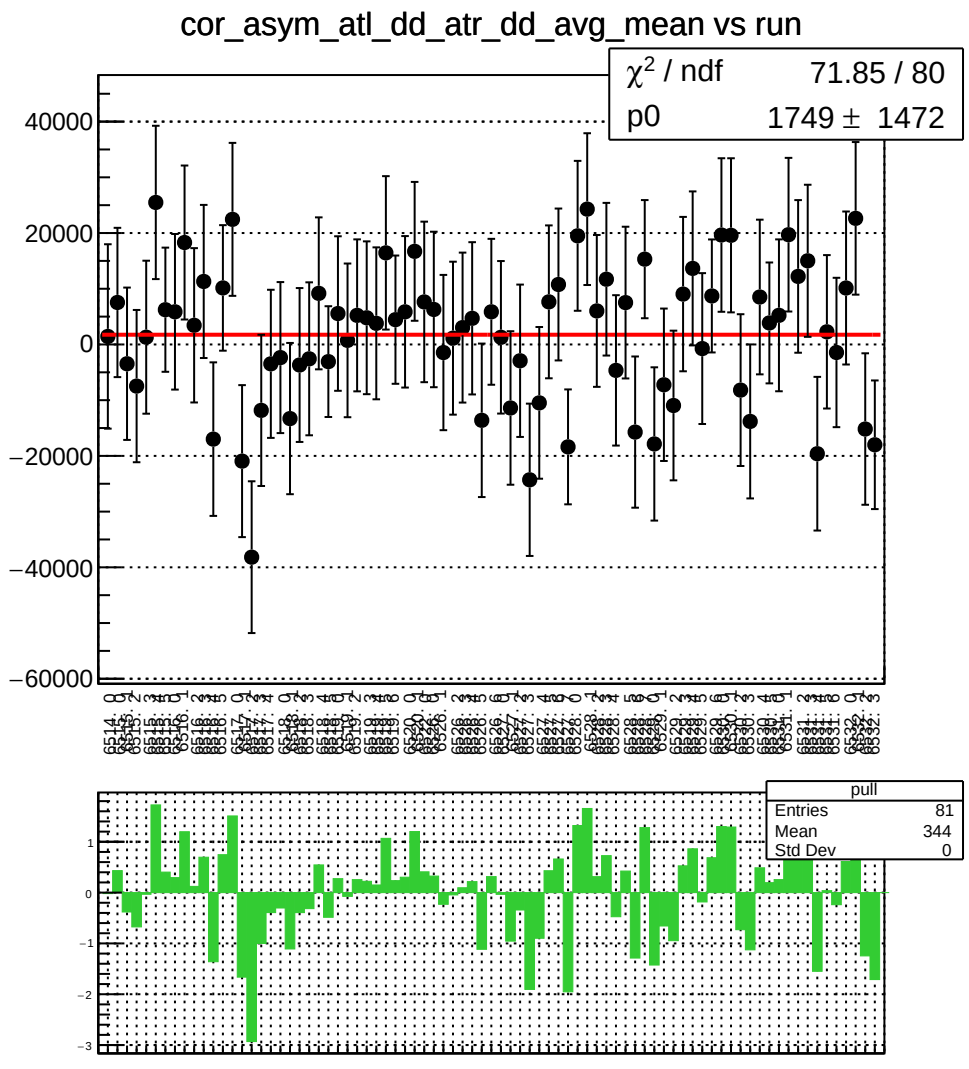

pull1D
Entries 81
Mean 0.002127
Std Dev 0.9418

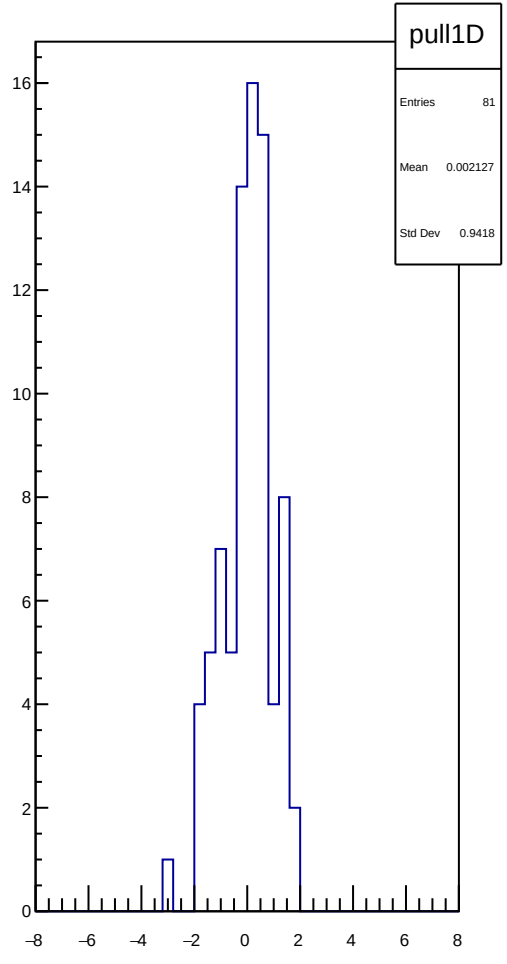

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 105.7 / 80
p0 1300 ± 1.041
1340
1330
1320
1310
1300
1290
1280
1270
1260

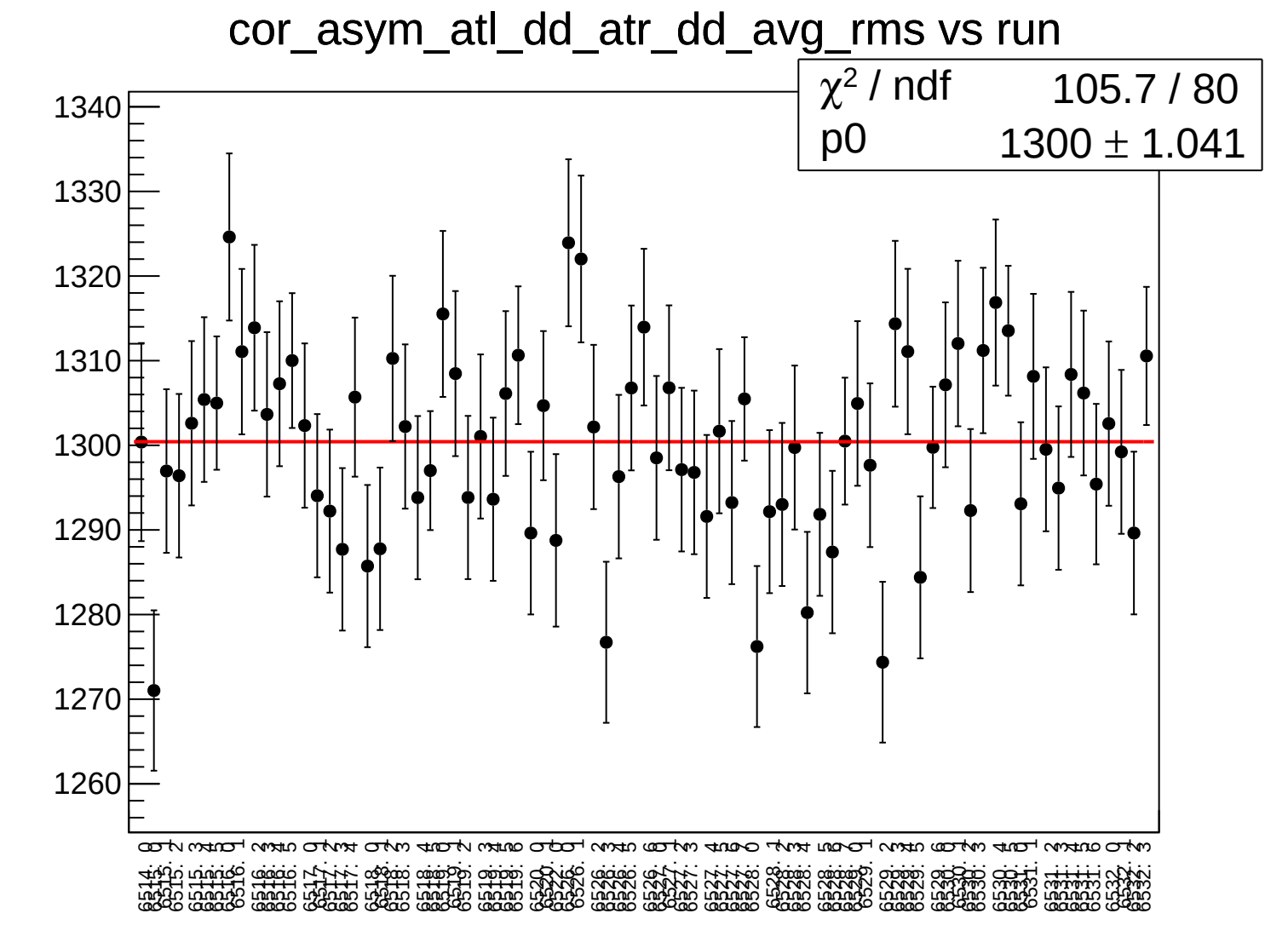

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 87.96 / 80
p0 −3822 ± 4674
pull
Entries 81
Mean −56.73
Std Dev 0

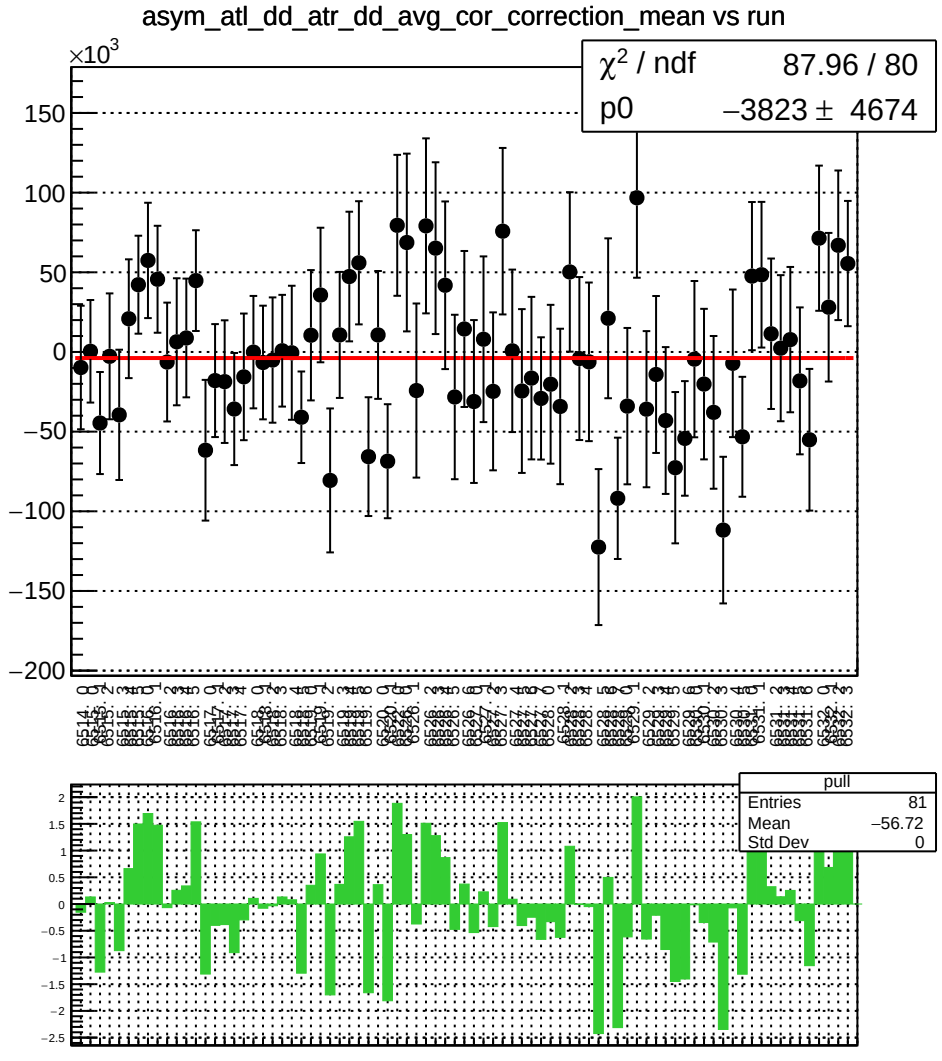

pull1D
Entries 81
Mean 0.01431
Std Dev 1.042

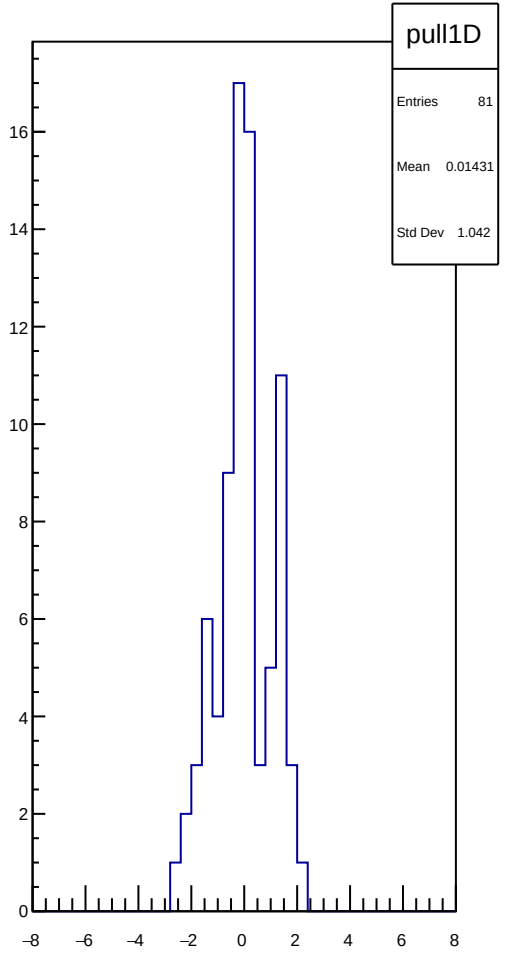

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 3.179e+04 / 80
p0 4087 ± 3.305
5500
5000
4500
4000
3500
3000

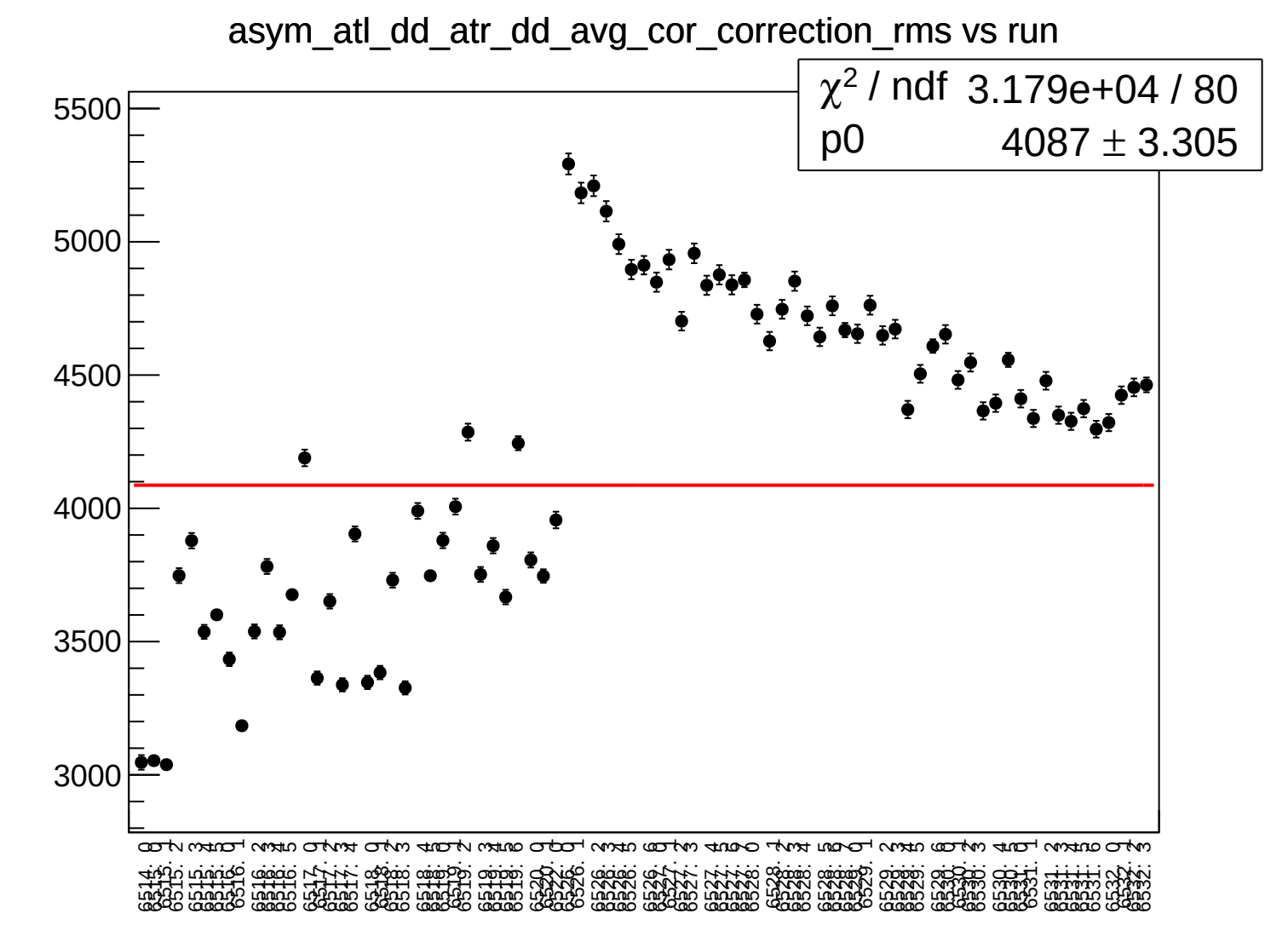

cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 71.85 / 80
p0 1749 ± 1472
pull
Entries 81
Mean 344
Std Dev 0

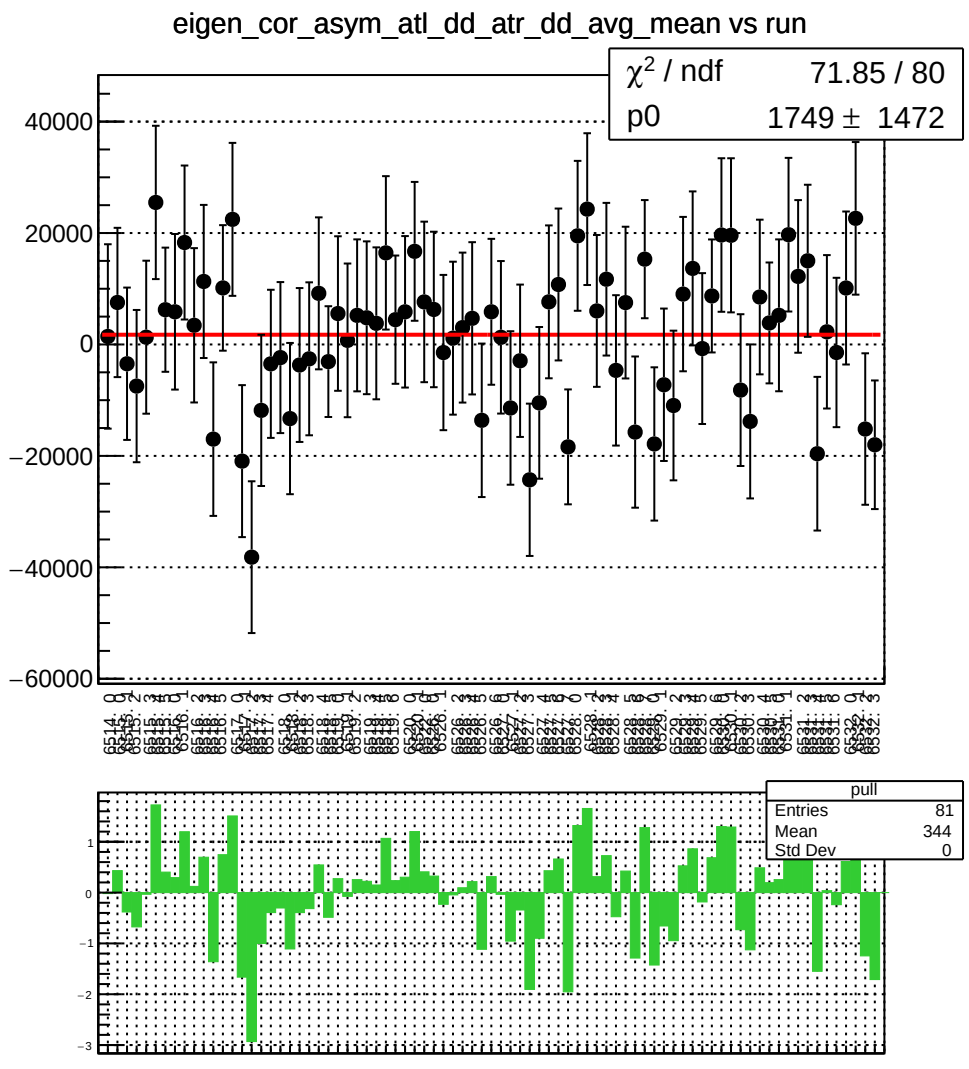

pull1D
Entries 81
Mean 0.002127
Std Dev 0.9418

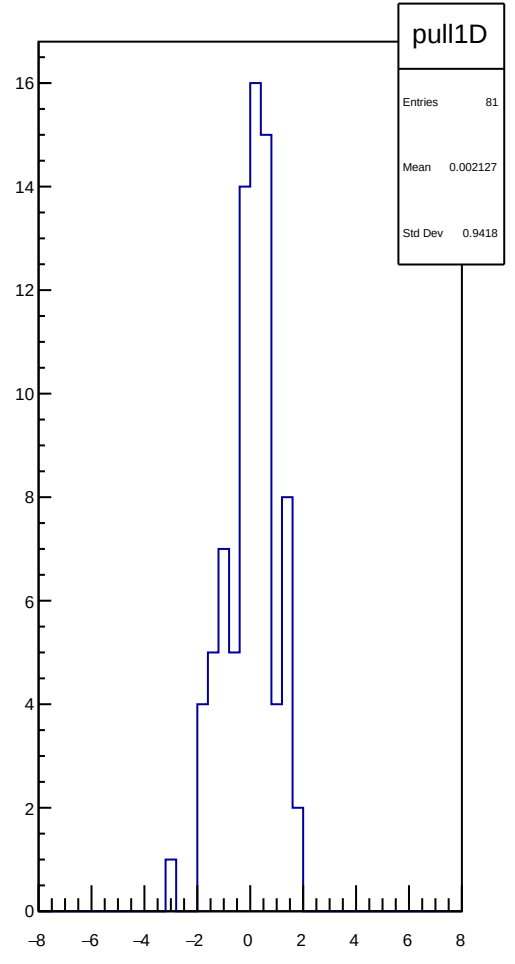

cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 105.7 / 80
p0 1300 ± 1.041
1340
1330
1320
1310
1300
1290
1280
1270
1260

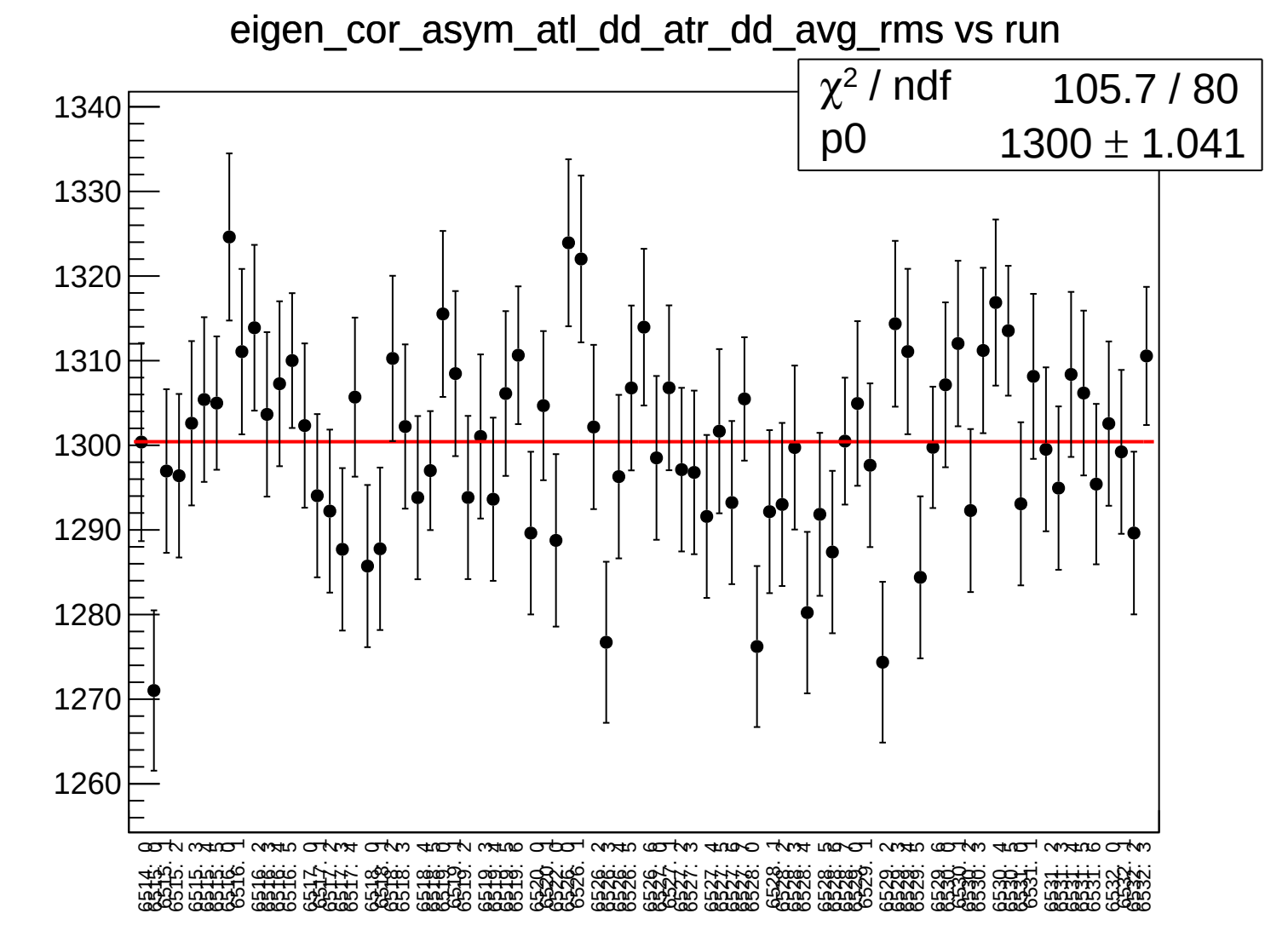

asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 87.96 / 80
p0 −3823 ± 4674
150
100
50
0
−50
−100
−150
−200
pull
Entries 81
Mean −56.72
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

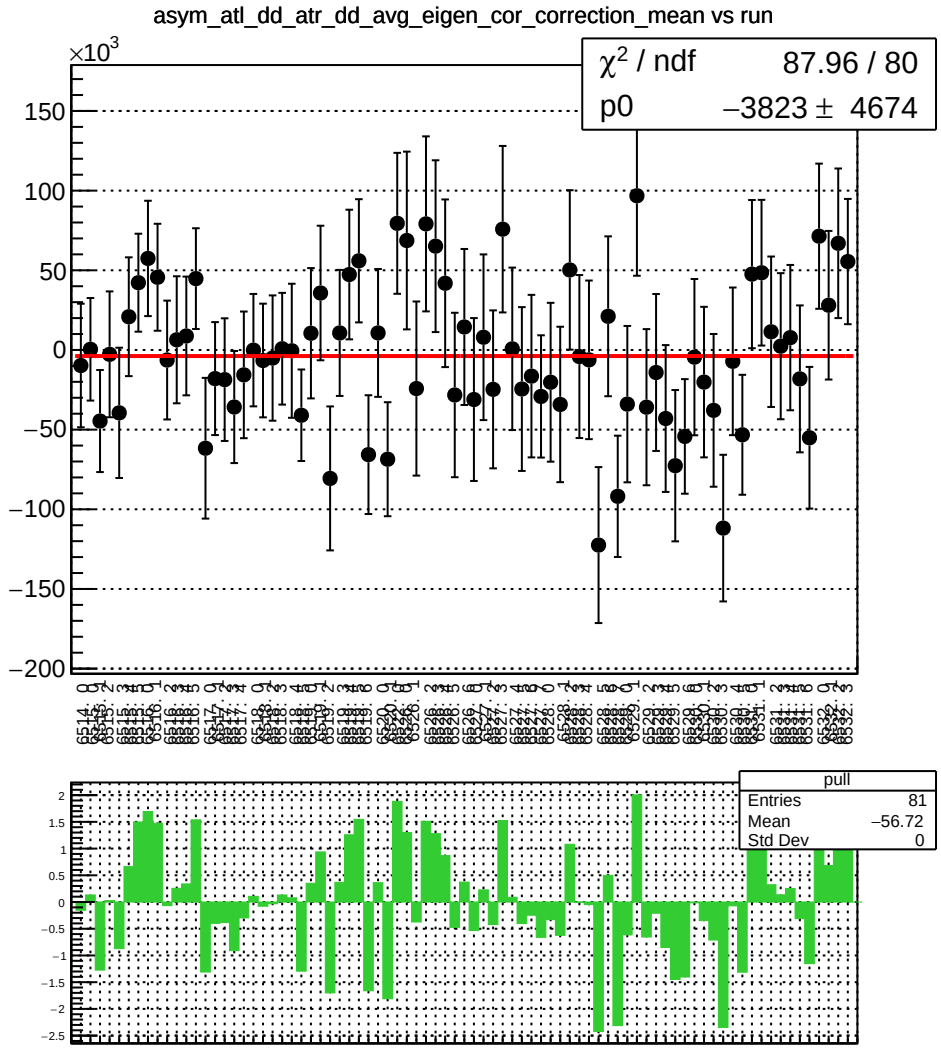

pull1D
Entries 81
Mean 0.01431
Std Dev 1.042
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

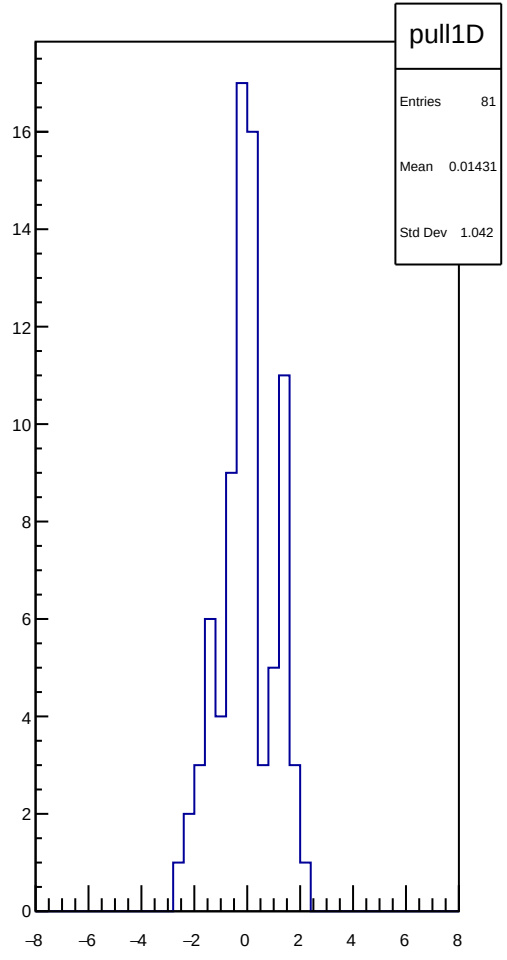

asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ² / ndf 3.179e+04 / 80
p0 4087 ± 3.305
5500
5000
4500
4000
3500
3000

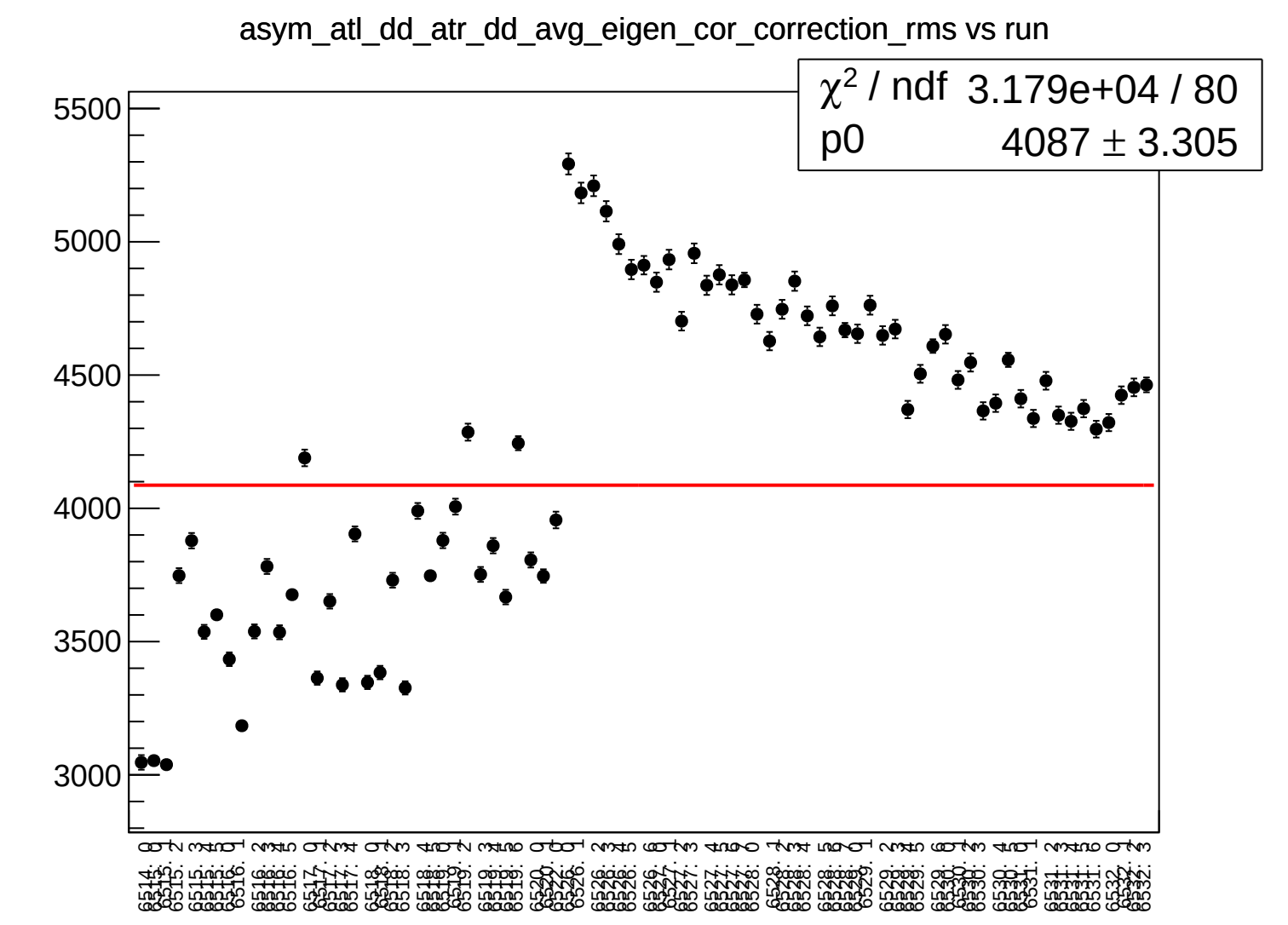

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 71.85 / 80
p0 1749 ± 1472
pull
Entries 81
Mean 344
Std Dev 0

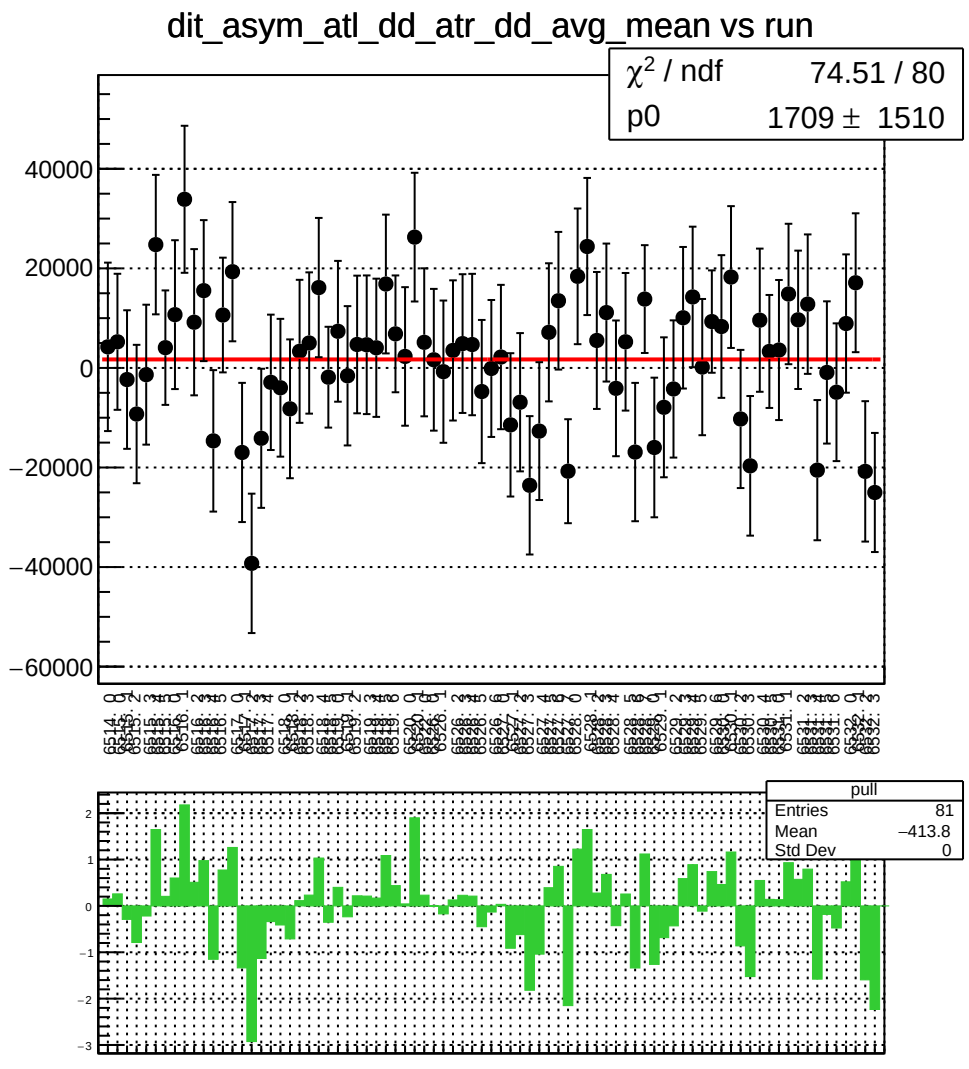

pull1D
Entries 81
Mean 0.002127
Std Dev 0.9418

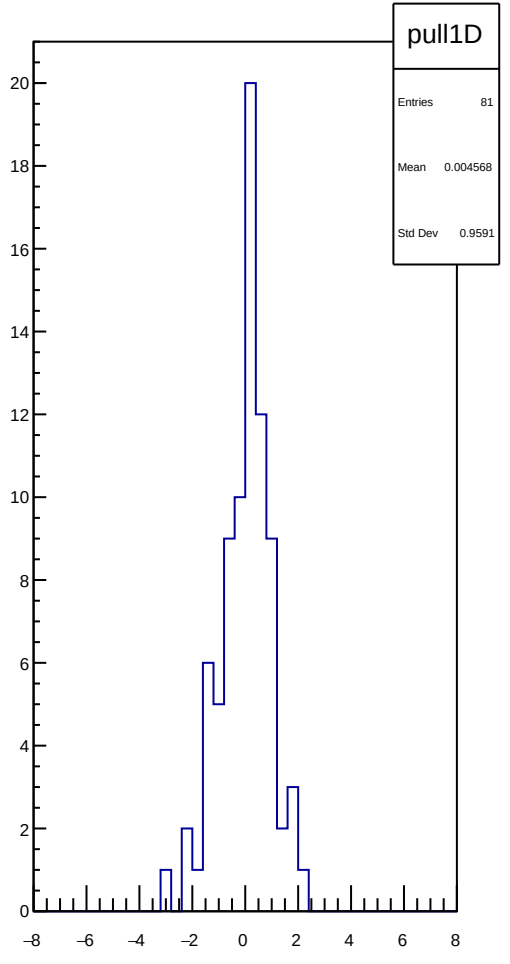

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 105.7 / 80
p0 1300 ± 1.041
1340
1330
1320
1310
1300
1290
1280
1270
1260

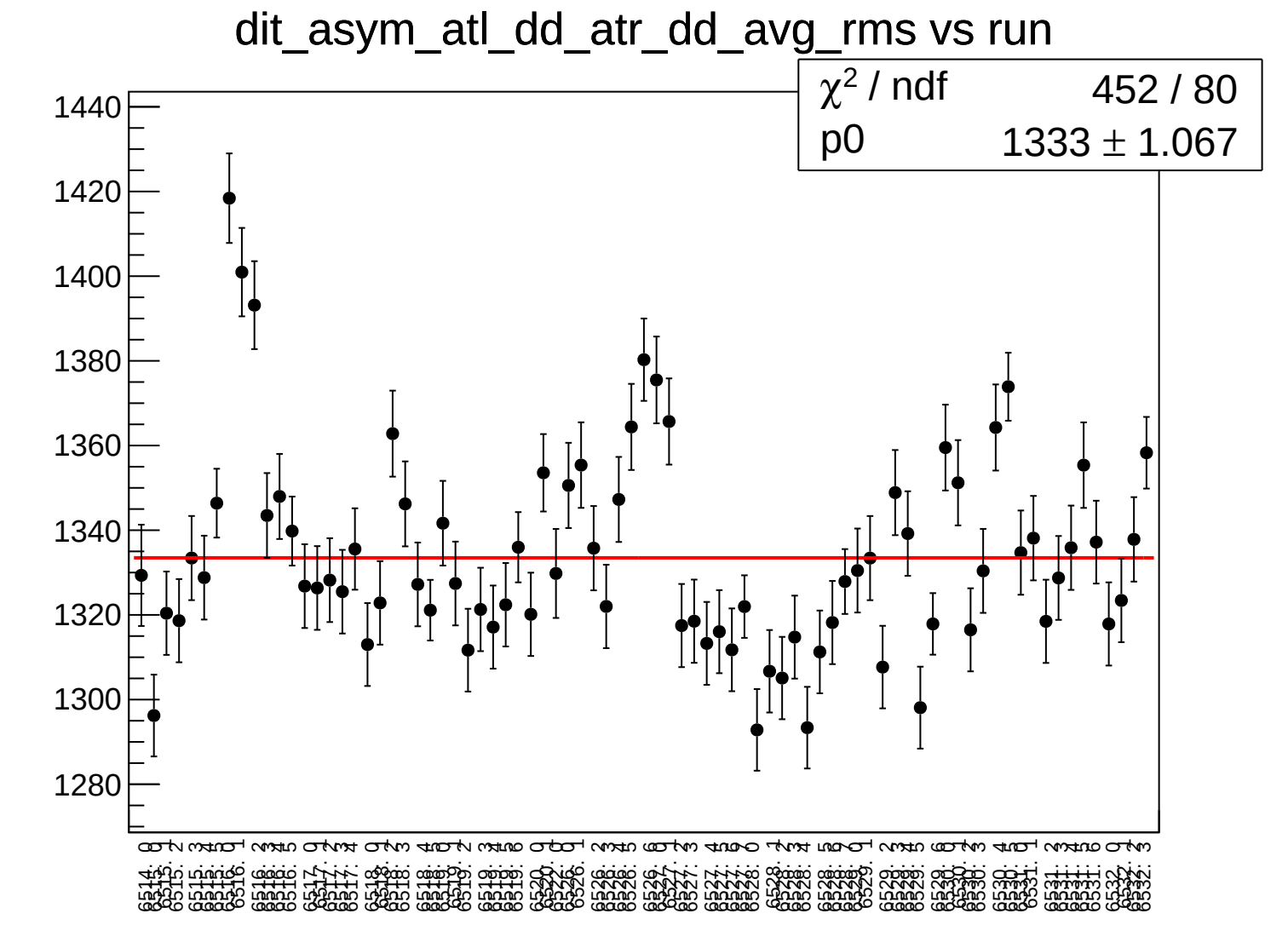

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 87.96 / 80
p0 −3823 ± 4674
pull
Entries 81
Mean −56.72
Std Dev 0

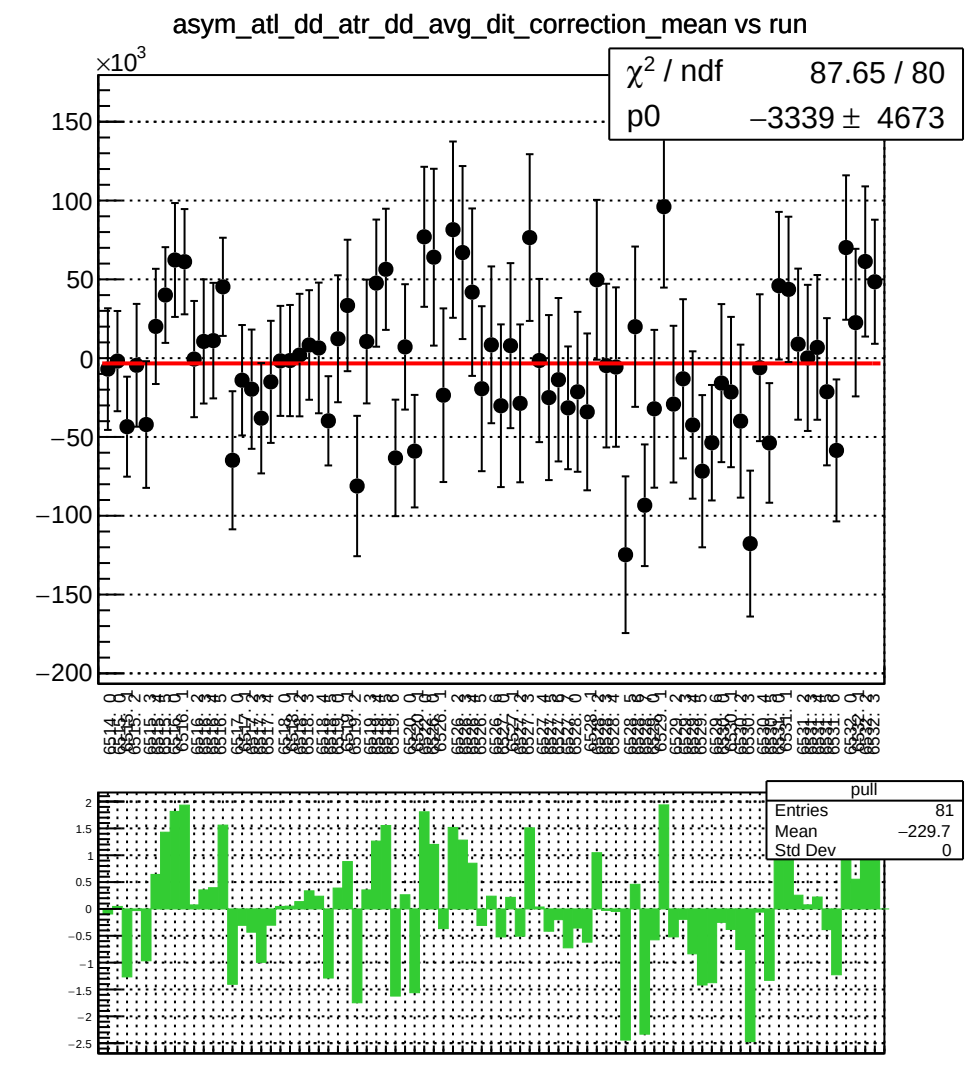

pull1D
Entries 81
Mean 0.01431
Std Dev 1.042

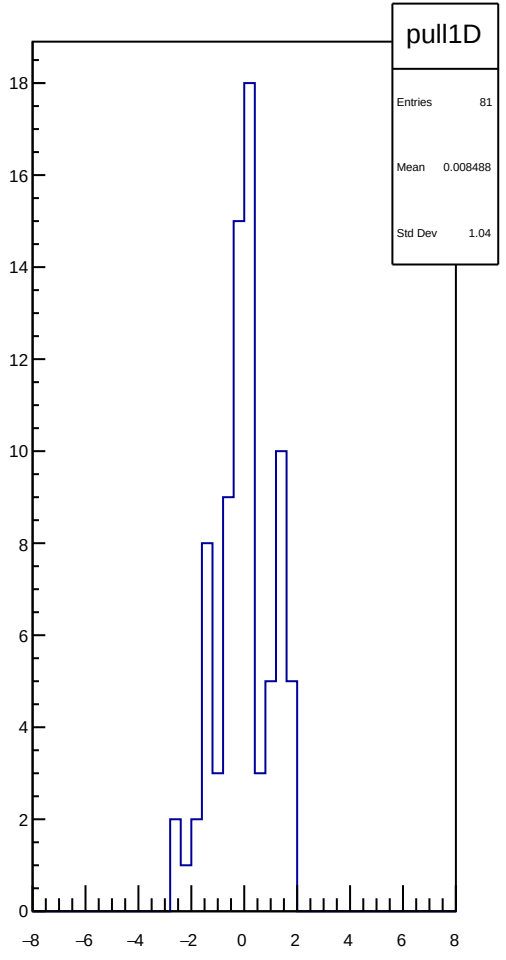

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.179e+04 / 80
p0 4087 ± 3.305
5500
5000
4500
4000
3500
3000

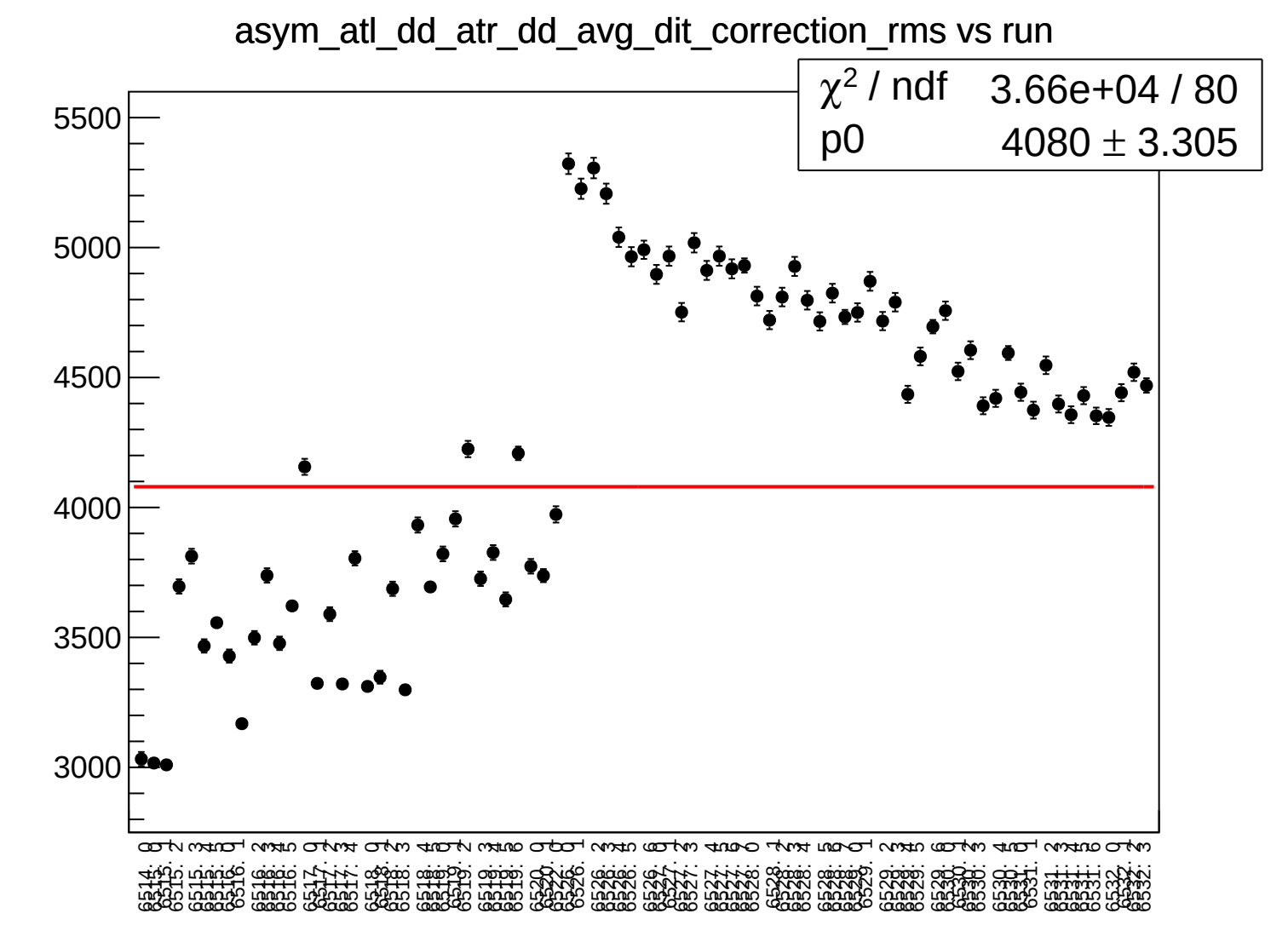

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 74.51 / 80
p0 1709 ± 1510
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −413.8
Std Dev 0
2
1
0
−1
−2
−3

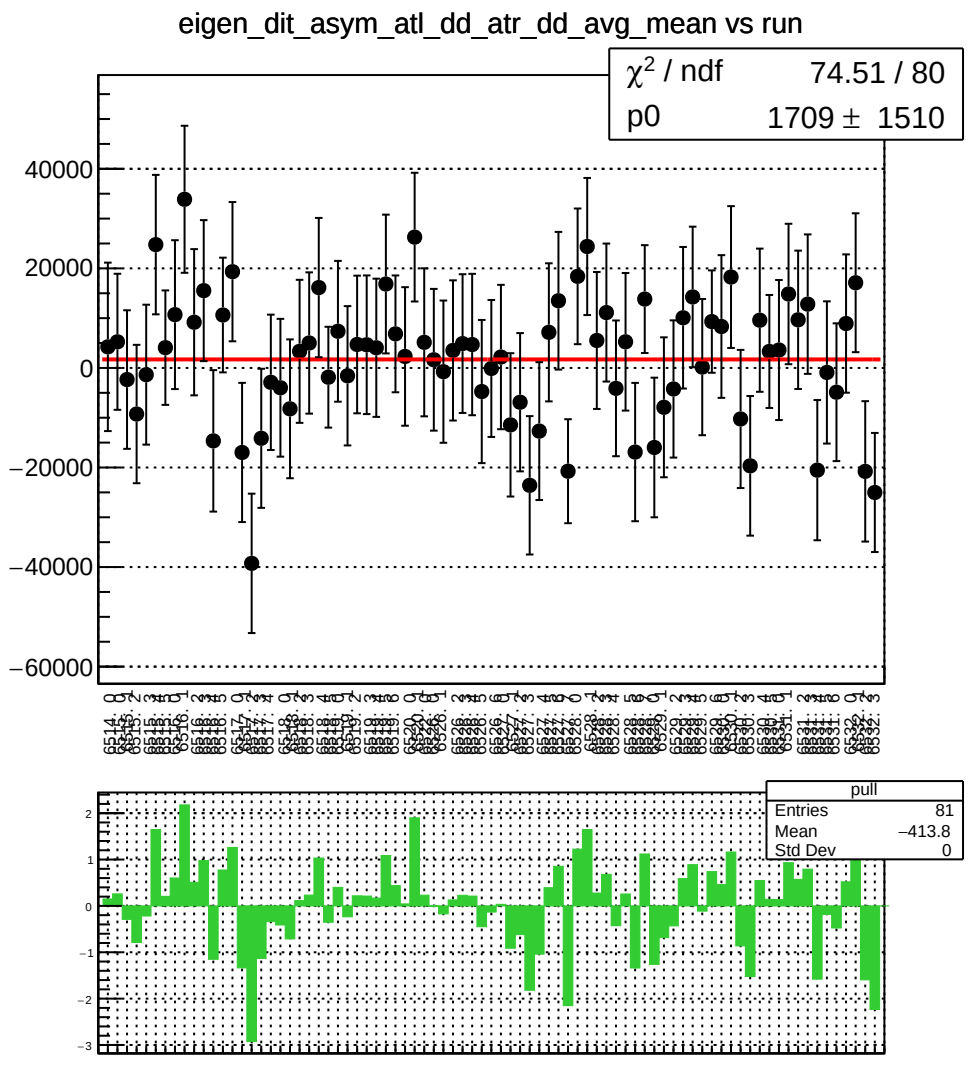

pull1D
Entries 81
Mean 0.004568
Std Dev 0.9591
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

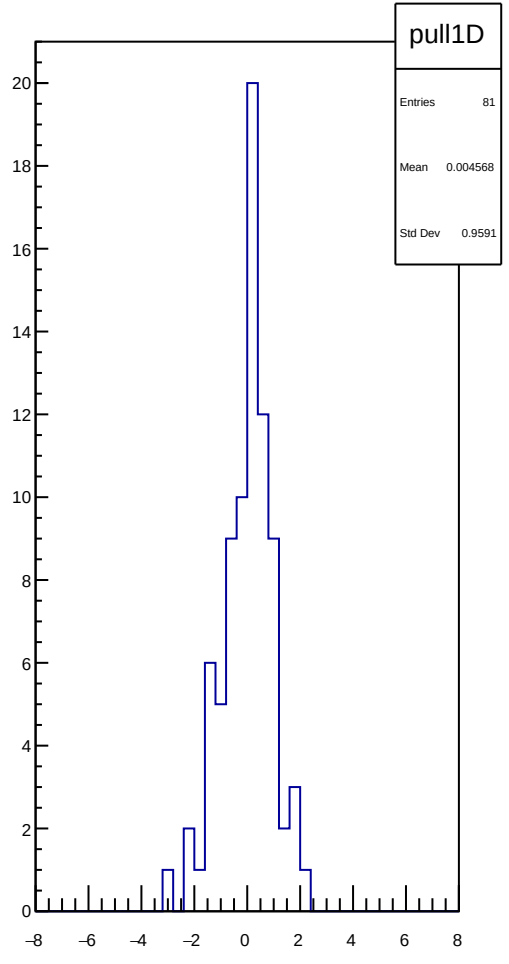

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 452 / 80
p0 1333 ± 1.067
1440
1420
1400
1380
1360
1340
1320
1300
1280

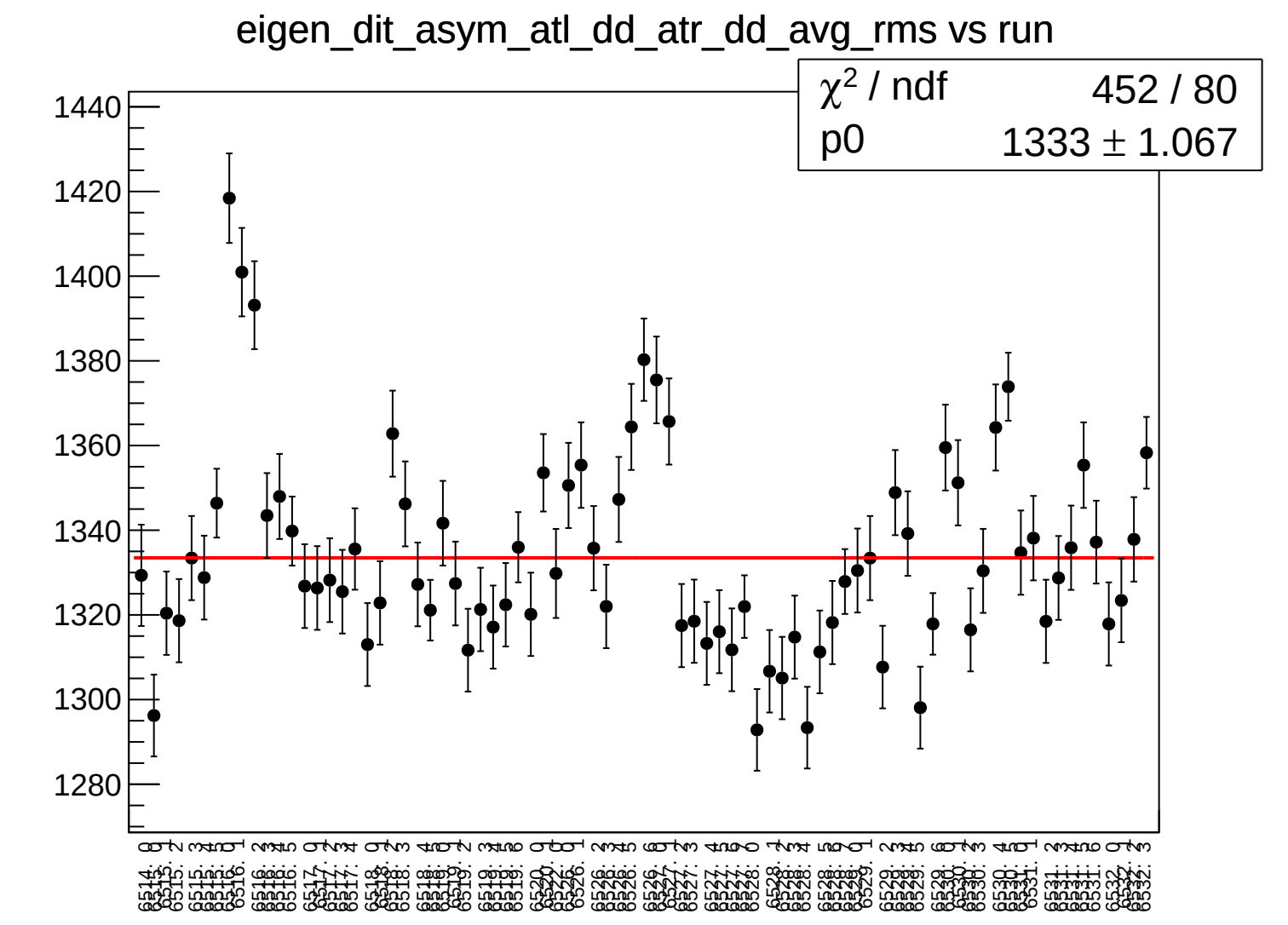

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 87.65 / 80
p0 −3339 ± 4673
150
100
50
0
−50
−100
−150
−200
pull
Entries 81
Mean −229.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

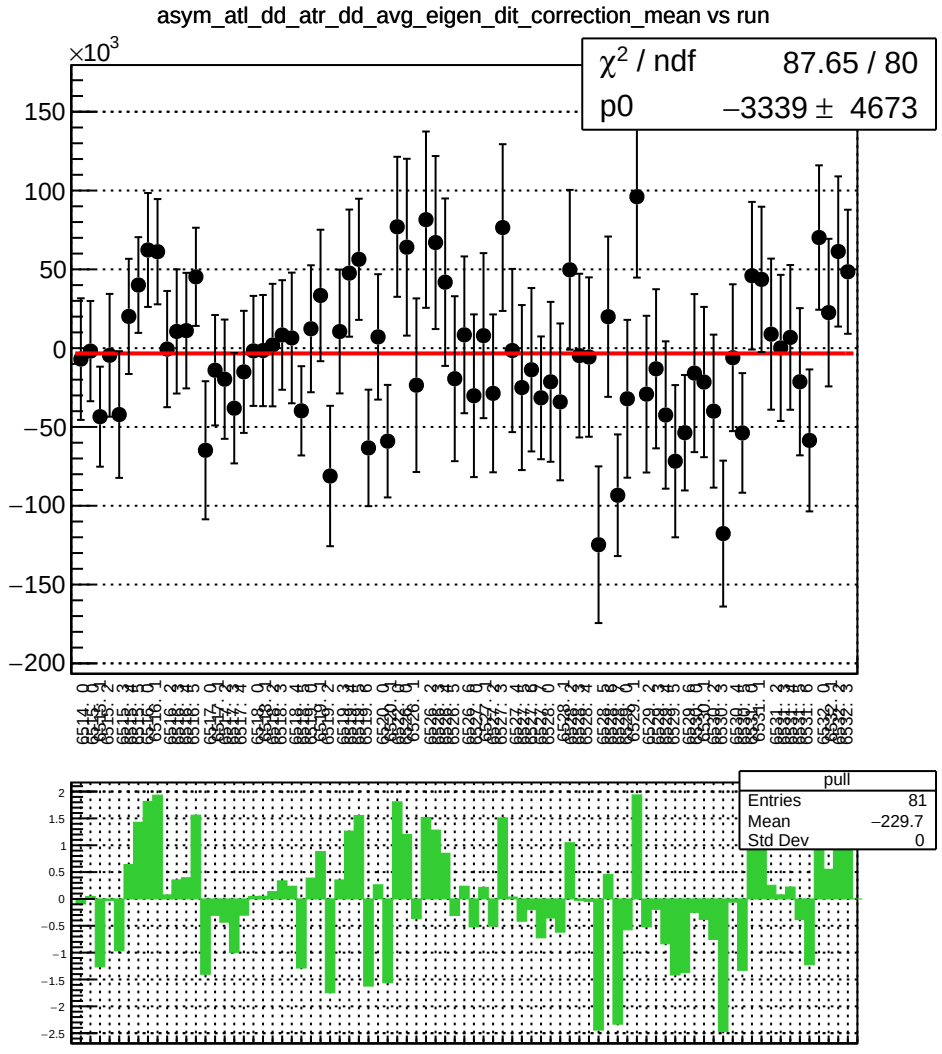

pull1D
Entries 81
Mean 0.008488
Std Dev 1.04
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

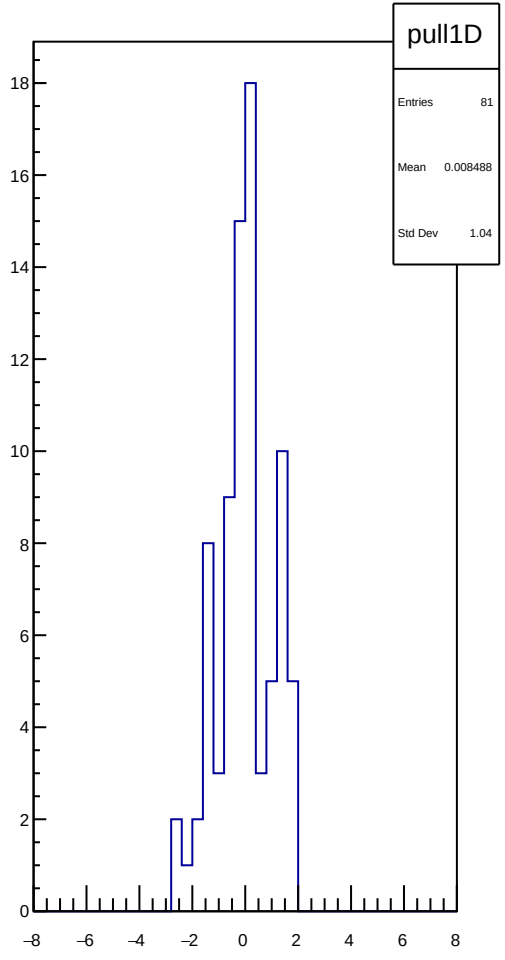

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 3.66e+04 / 80
p0 4080 ± 3.305
5500
5000
4500
4000
3500
3000

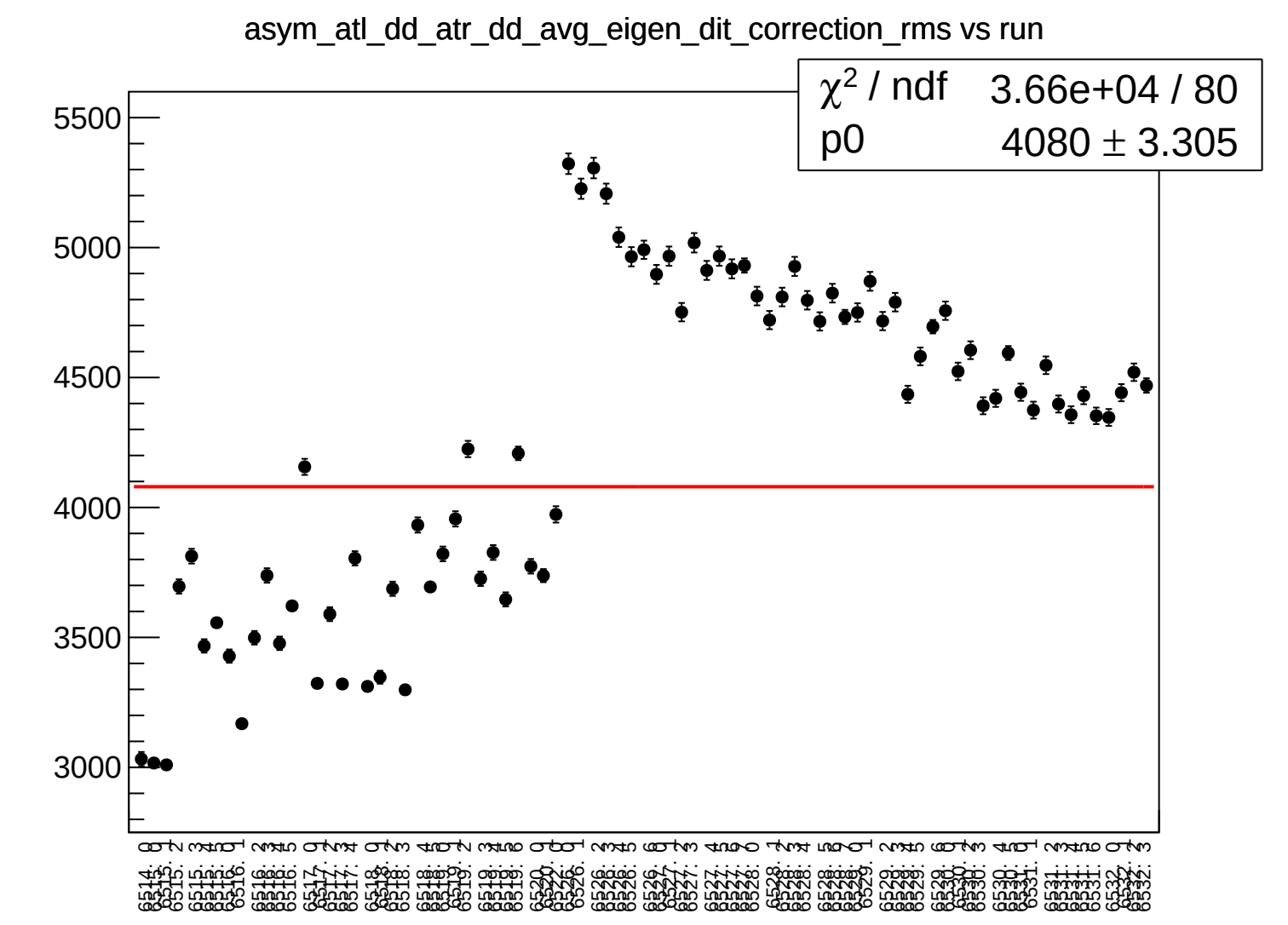

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 74.51 / 80
p0 1709 ± 1510
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −413.8
Std Dev 0
2
1
0
−1
−2
−3

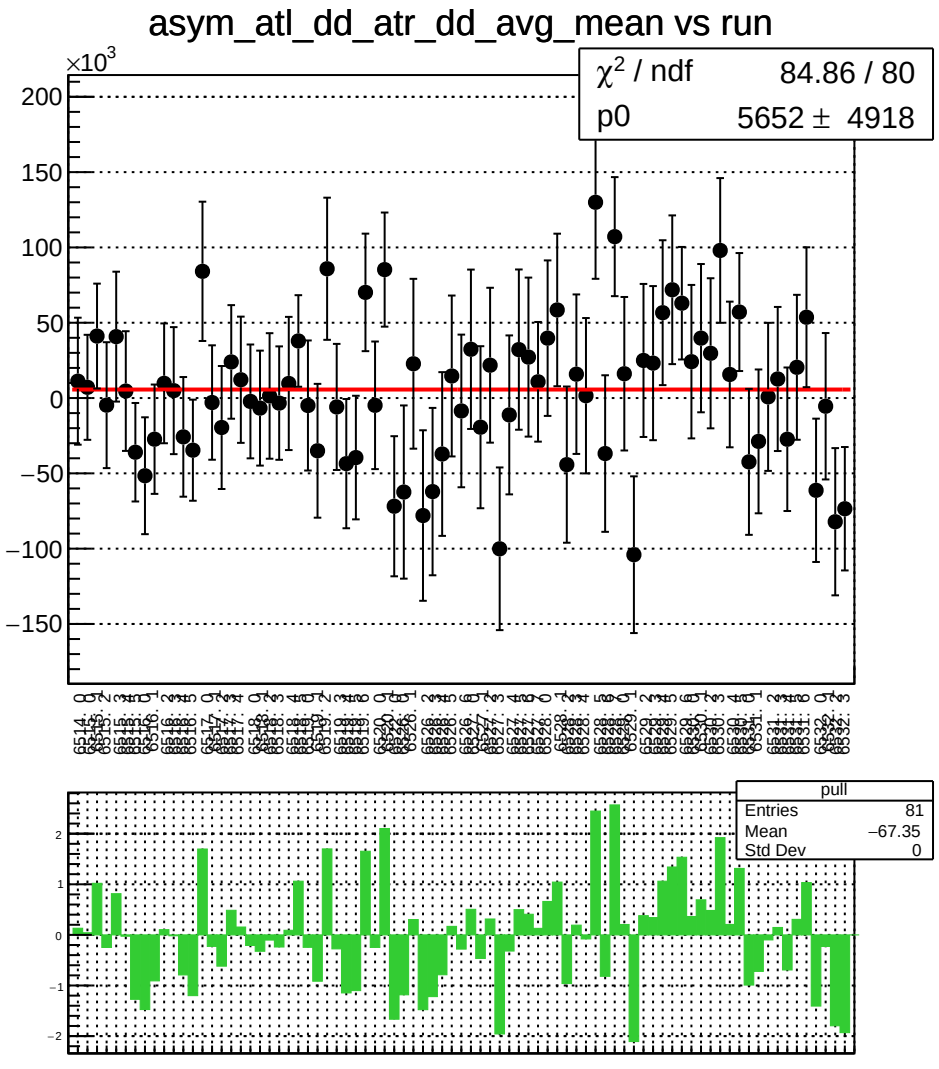

pull1D
Entries 81
Mean 0.004568
Std Dev 0.9591
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

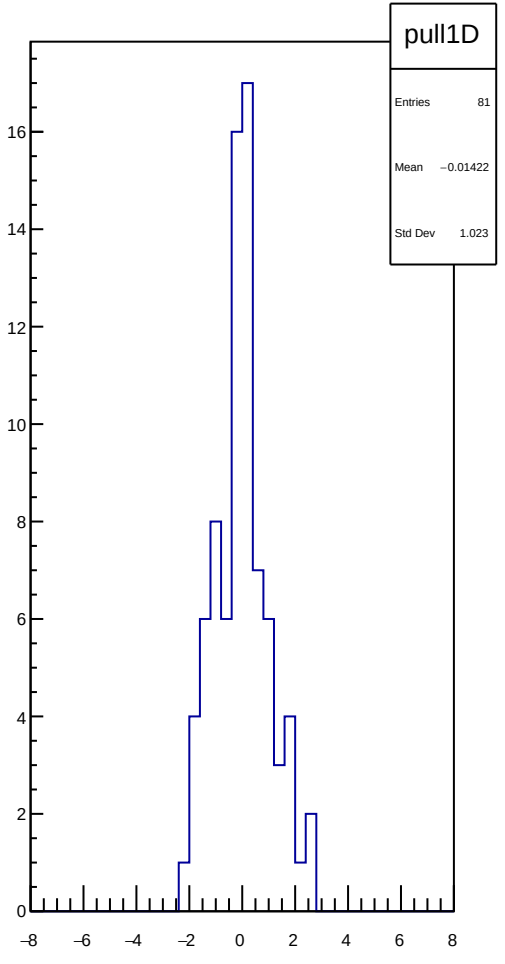

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 452 / 80
p0 1333 ± 1.067
1440
1420
1400
1380
1360
1340
1320
1300
1280

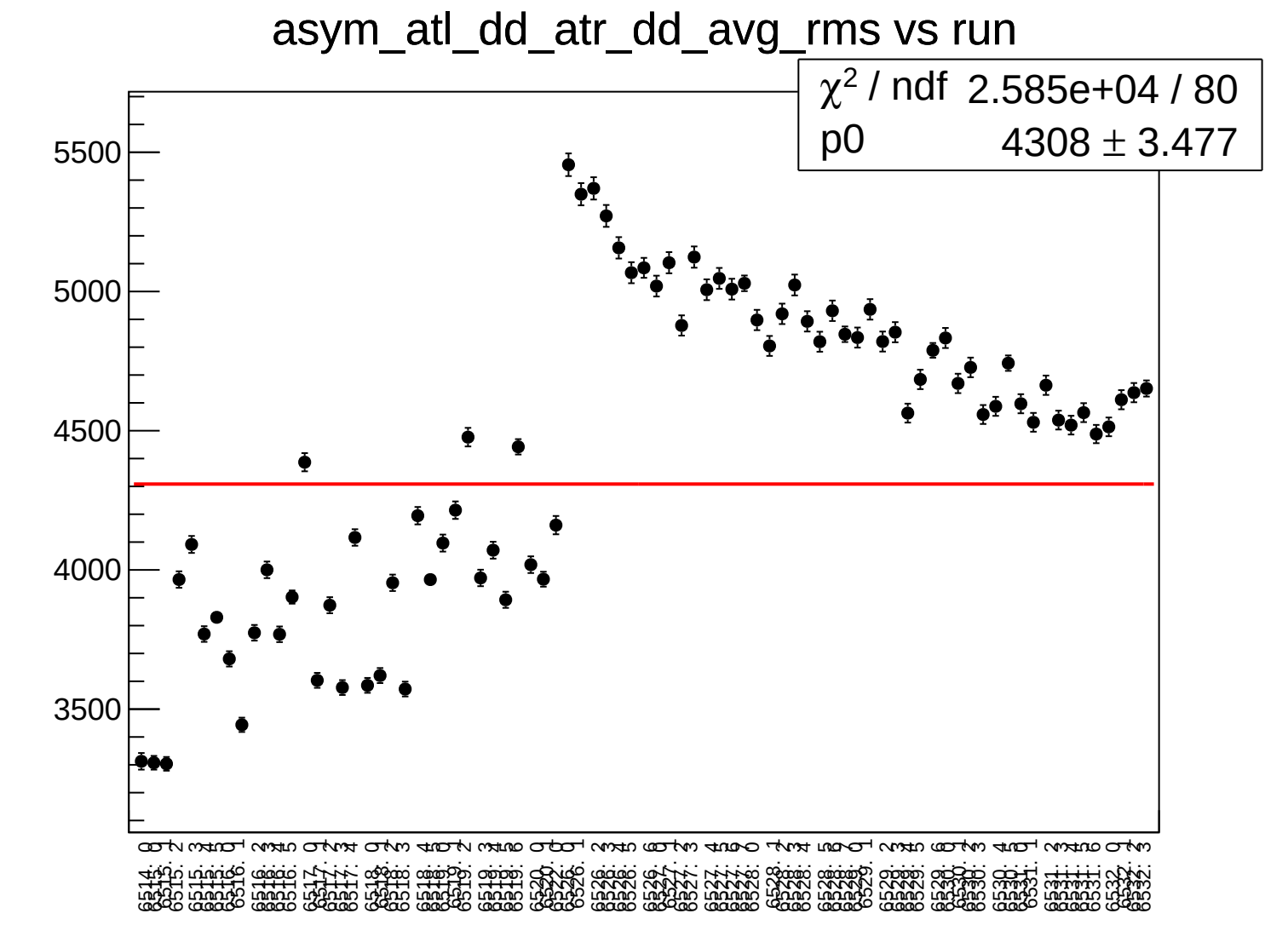

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 87.65 / 80
p0 −3339 ± 4673
150
100
50
0
−50
−100
−150
−200
pull
Entries 81
Mean −229.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

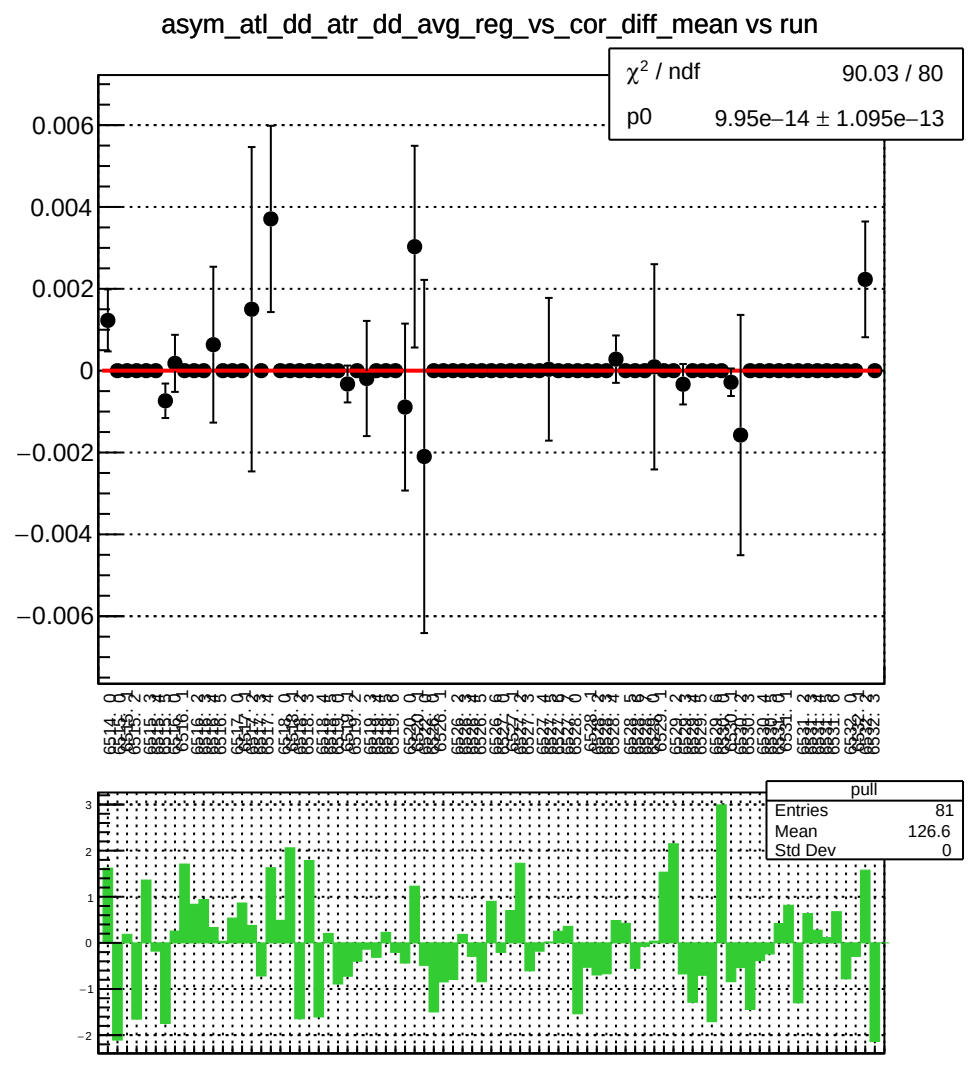

pull1D
Entries 81
Mean 0.008488
Std Dev 1.04
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

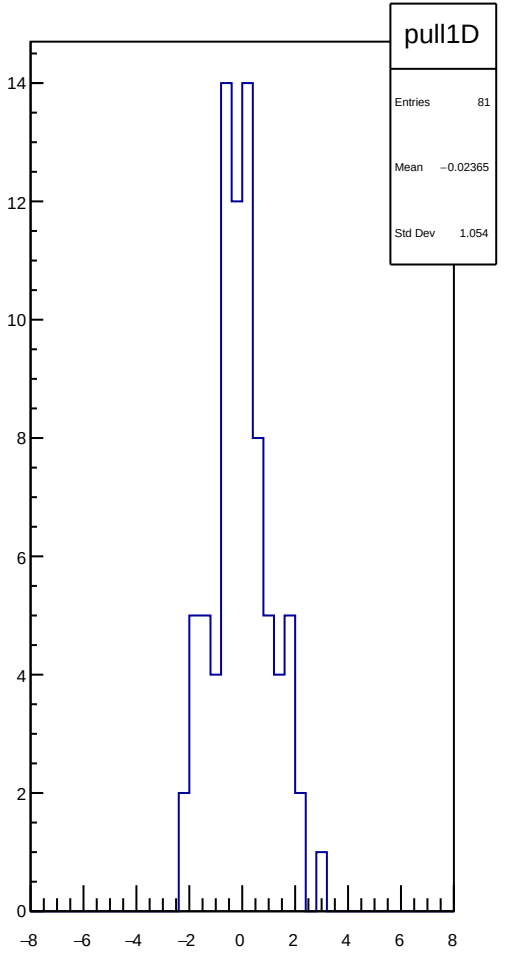

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.66e+04 / 80
p0 4080 ± 3.305
5500
5000
4500
4000
3500
3000

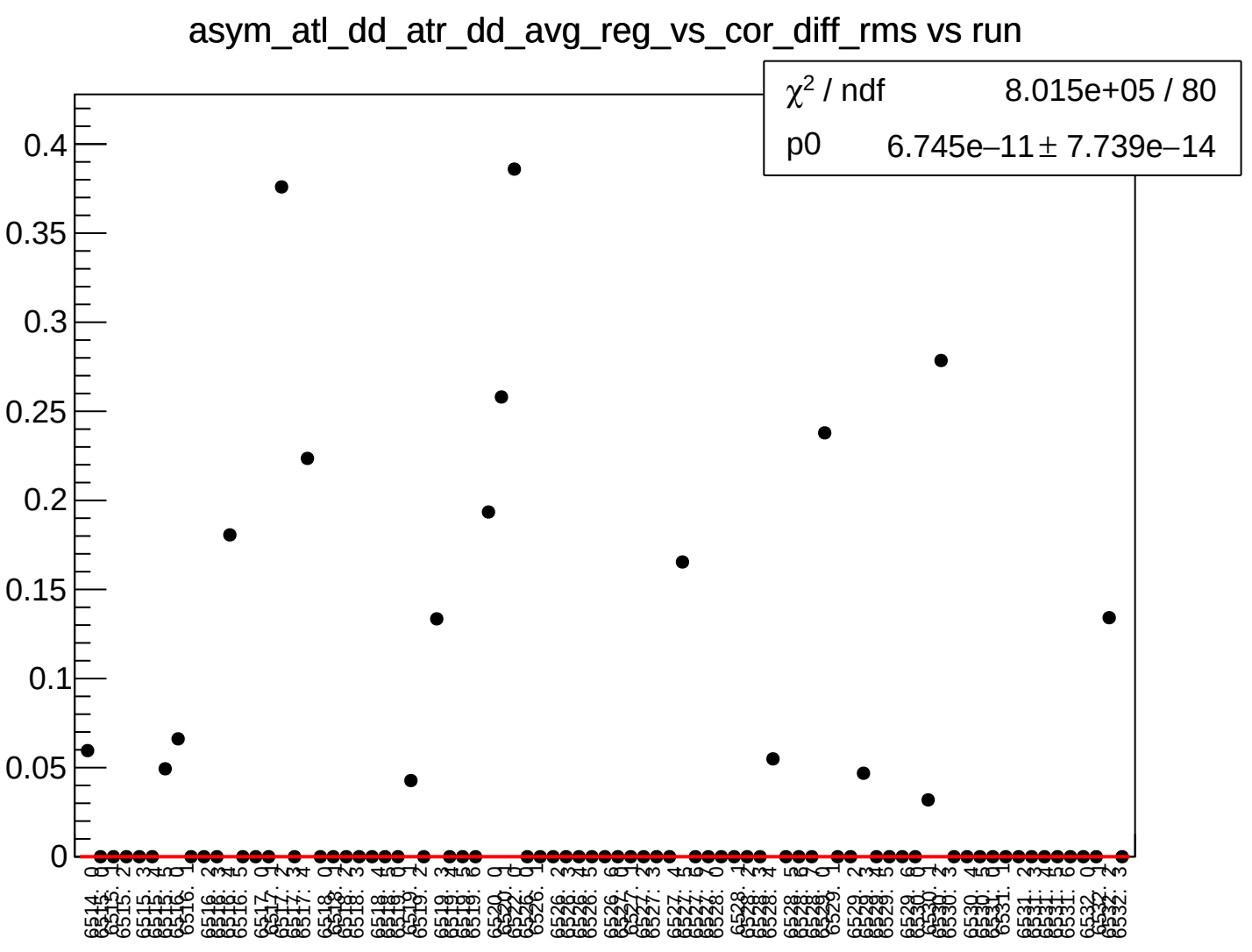

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 84.86 / 80
p0 5652 ± 4918
pull
Entries 81
Mean −67.35
Std Dev 0

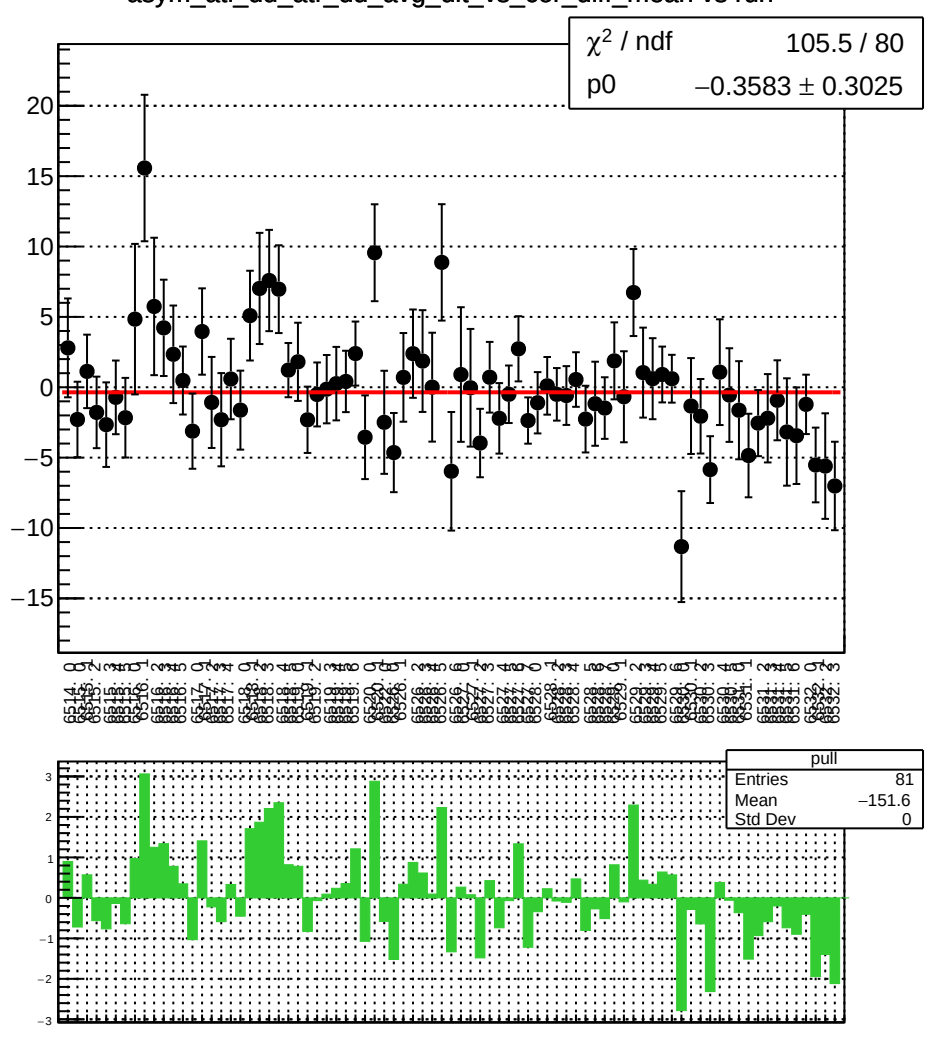

pull1D
Entries 81
Mean −0.01422
Std Dev 1.023

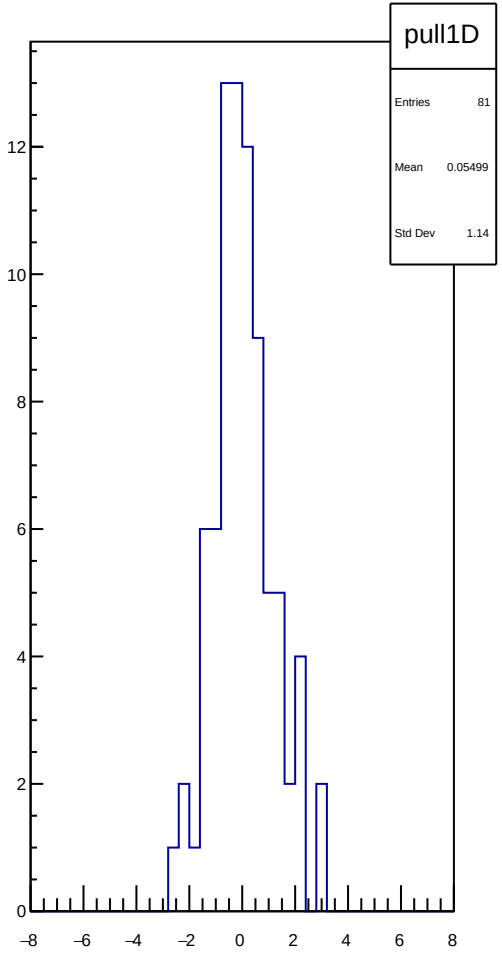

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 2.585e+04 / 80
p0 4308 ± 3.477
5500
5000
4500
4000
3500

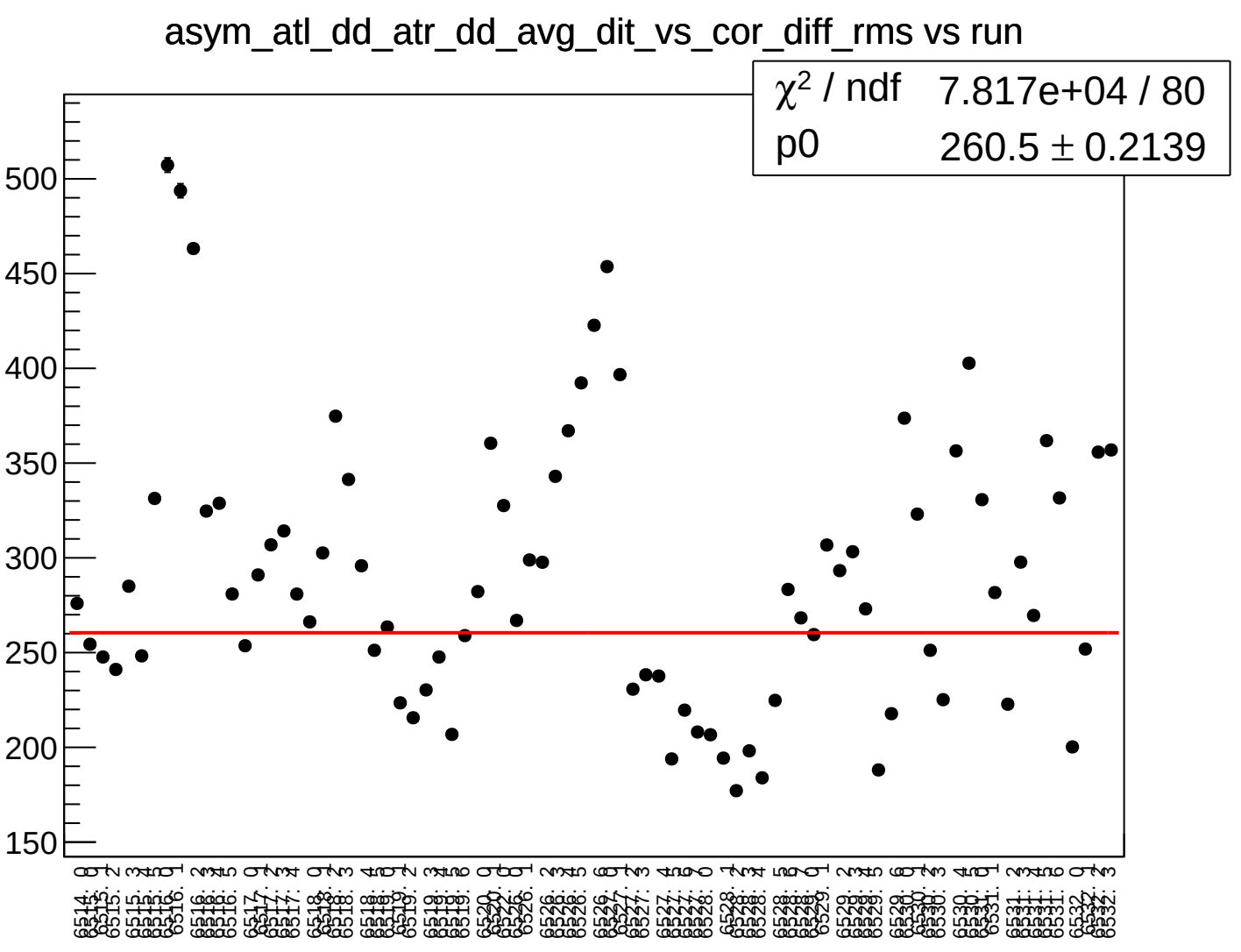

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 90.03 / 80
p0 9.95e−14 ± 1.095e−13
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
pull
Entries 81
Mean 126.6
Std Dev 0
3
2
1
0
−1
−2

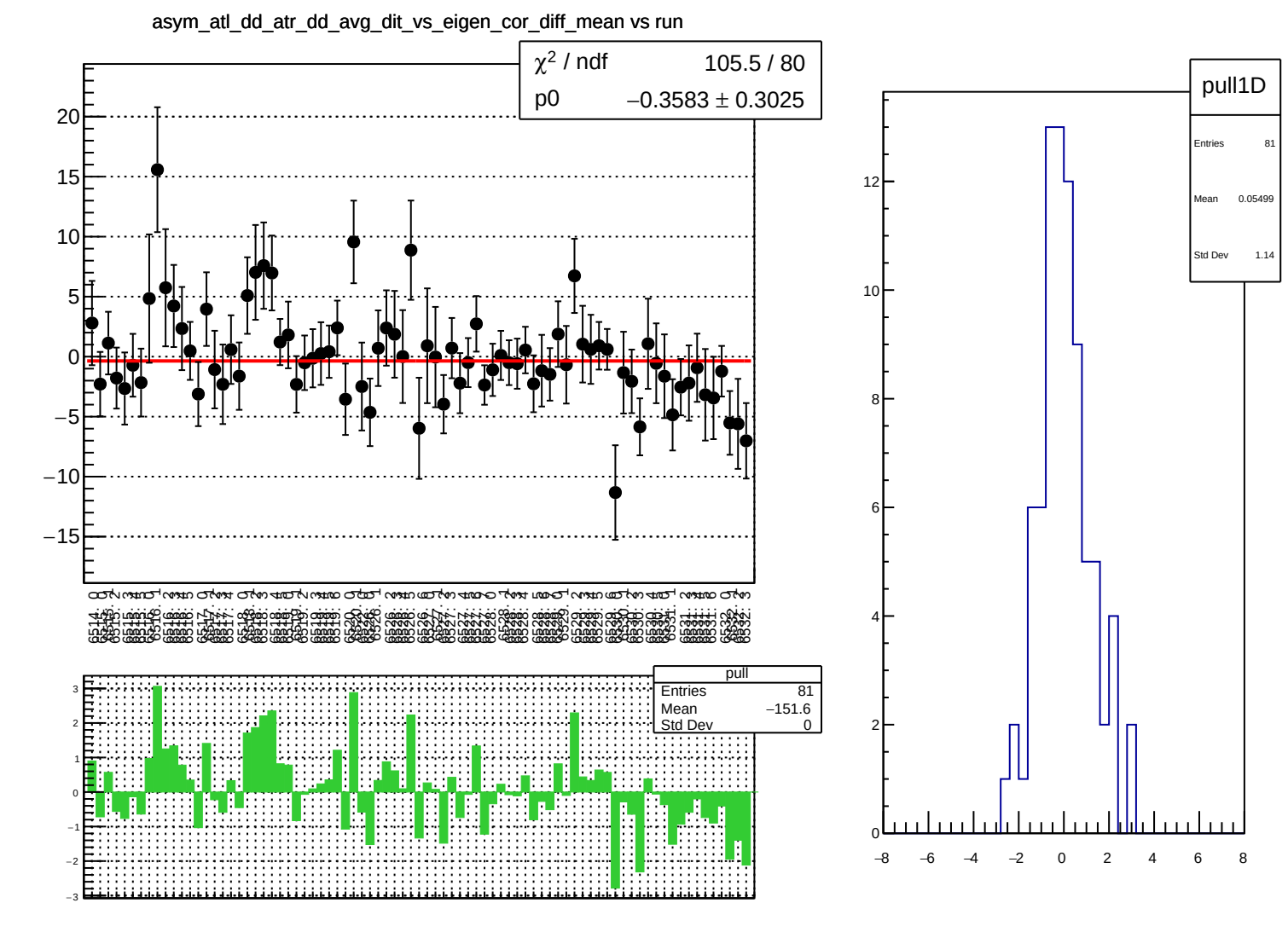

pull1D
Entries 81
Mean −0.02365
Std Dev 1.054
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

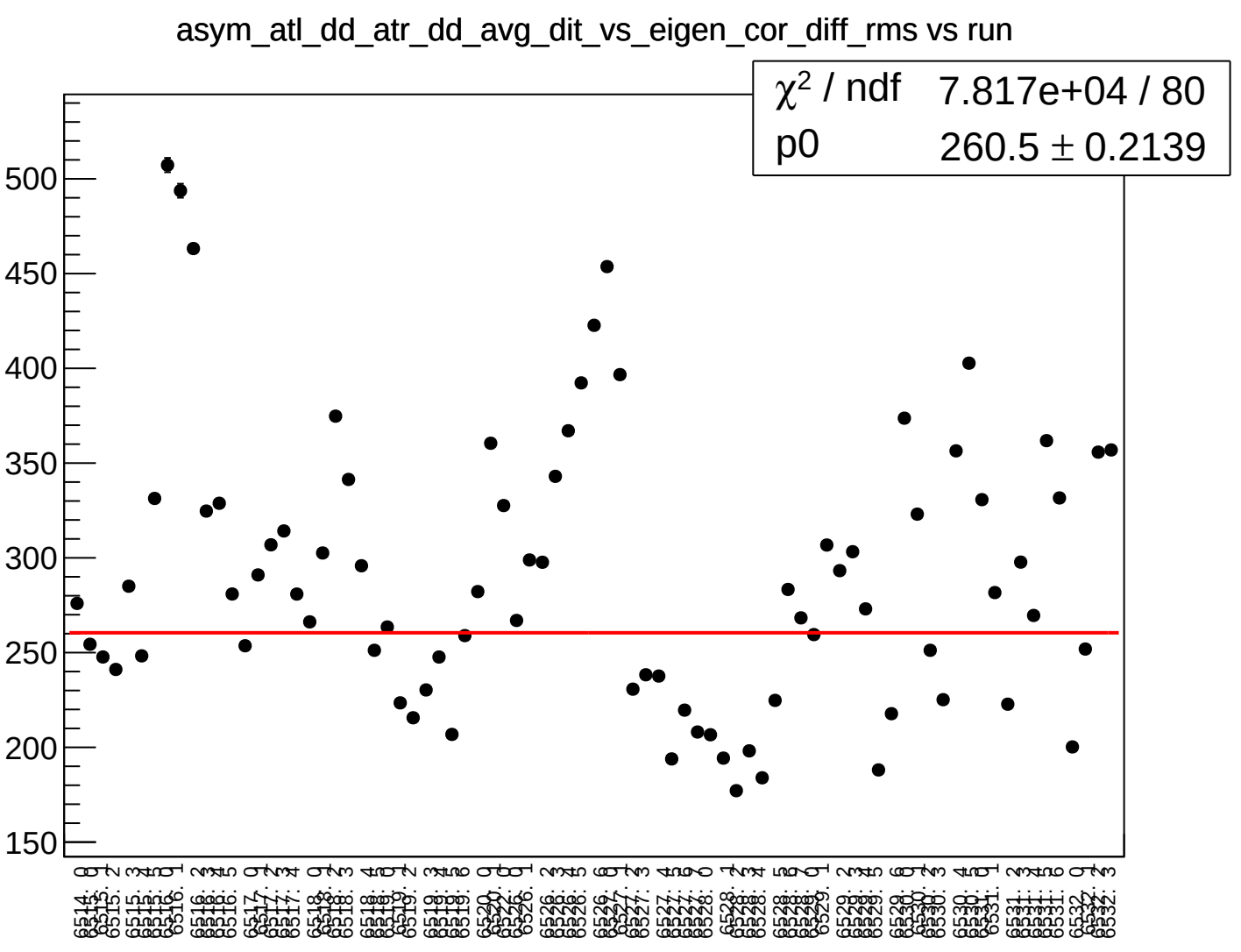

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.015e+05 / 80
p0 6.745e−11 ± 7.739e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0

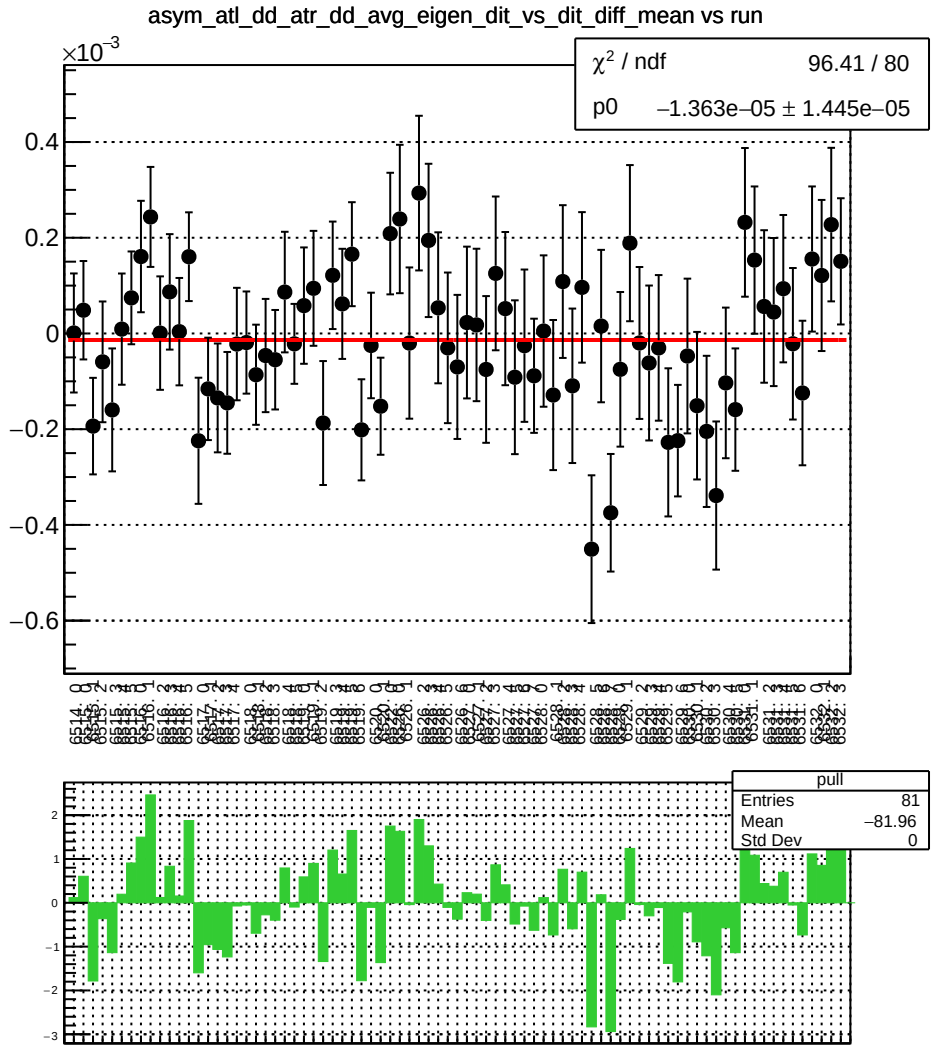

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 105.5 / 80
p0 −0.3583 ± 0.3025
pull
Entries 81
Mean −151.6
Std Dev 0

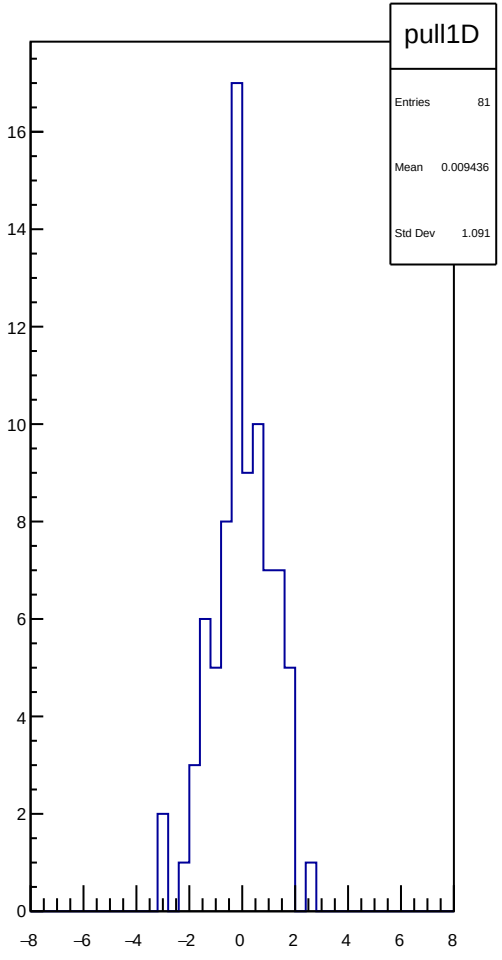

pull1D
Entries 81
Mean 0.05499
Std Dev 1.14

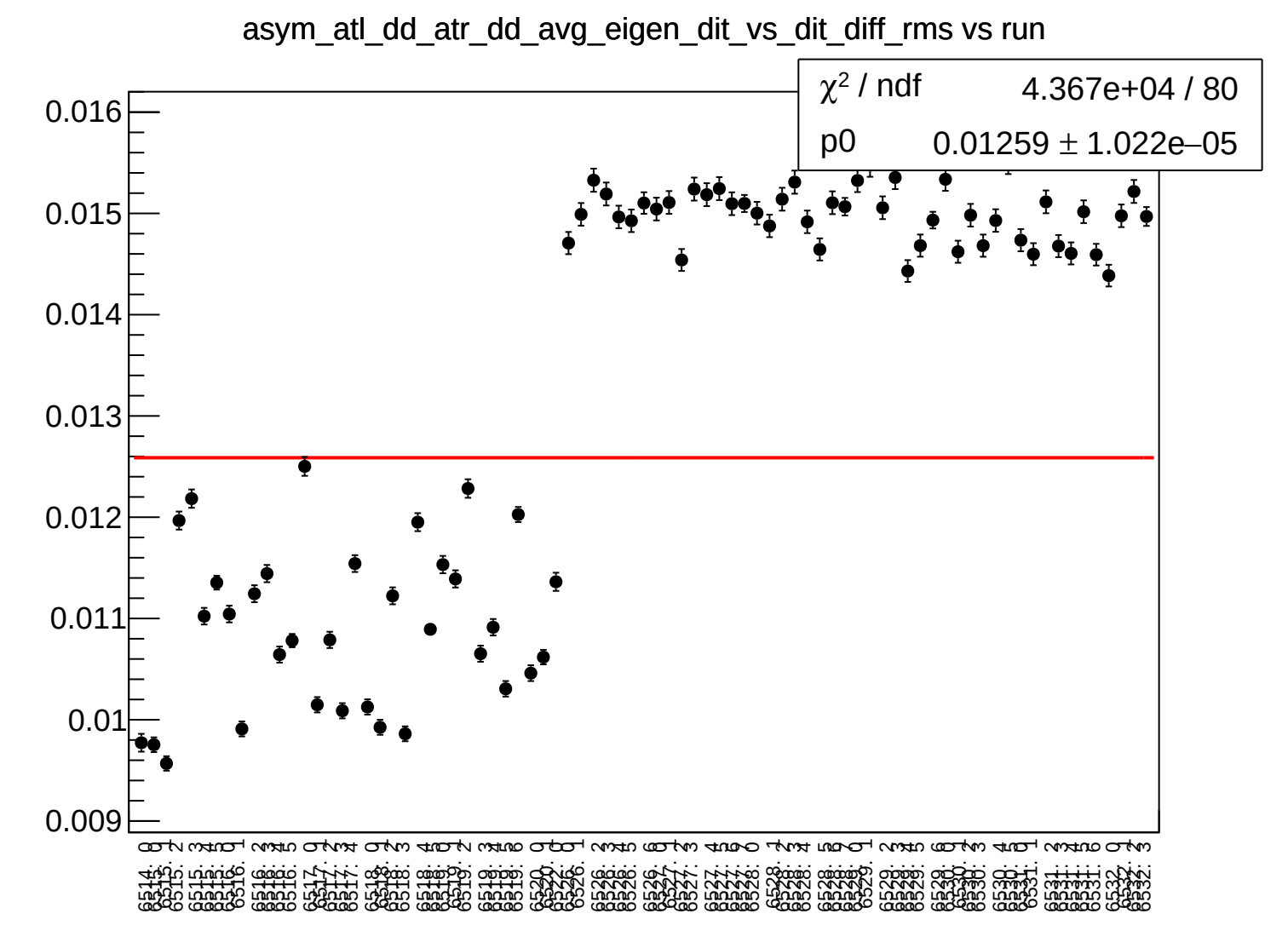

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.817e+04 / 80
p0 260.5 ± 0.2139
500
450
400
350
300
250
200
150

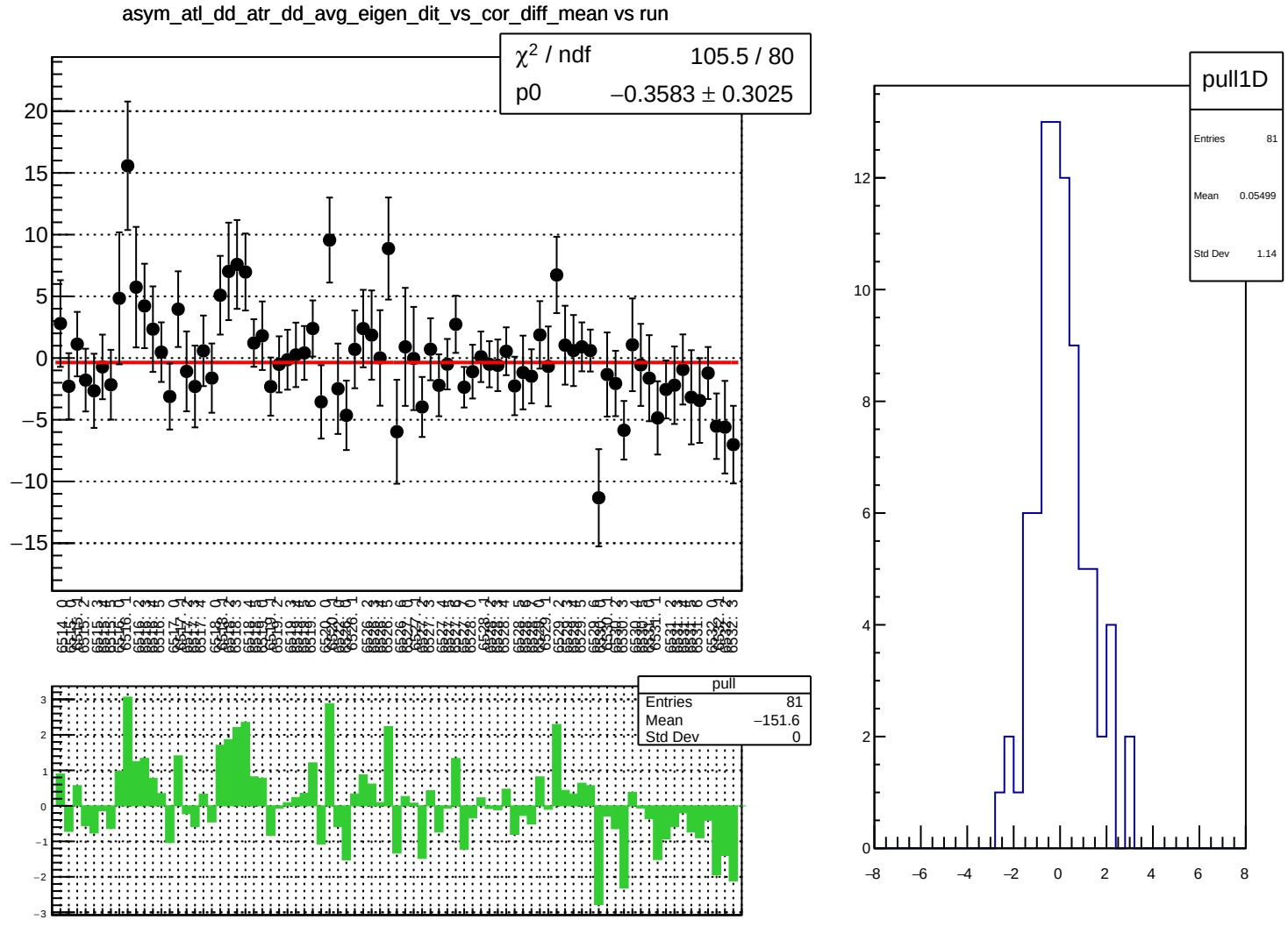

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.5 / 80
p0 −0.3583 ± 0.3025
pull
Entries 81
Mean −151.6
Std Dev 0
pull1D
Entries 81
Mean 0.05499
Std Dev 1.14

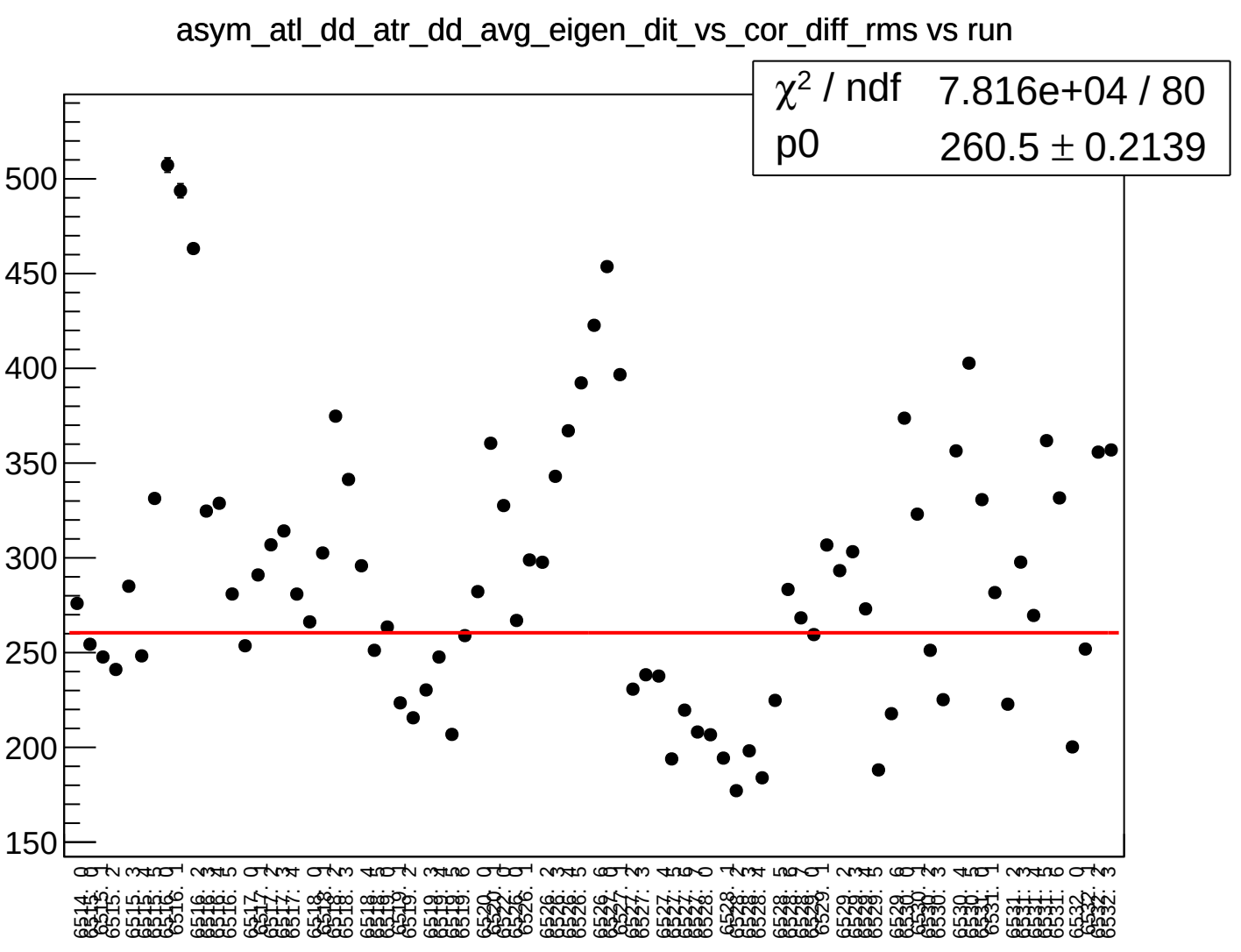

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.817e+04 / 80
p0 260.5 ± 0.2139
500
450
400
350
300
250
200
150

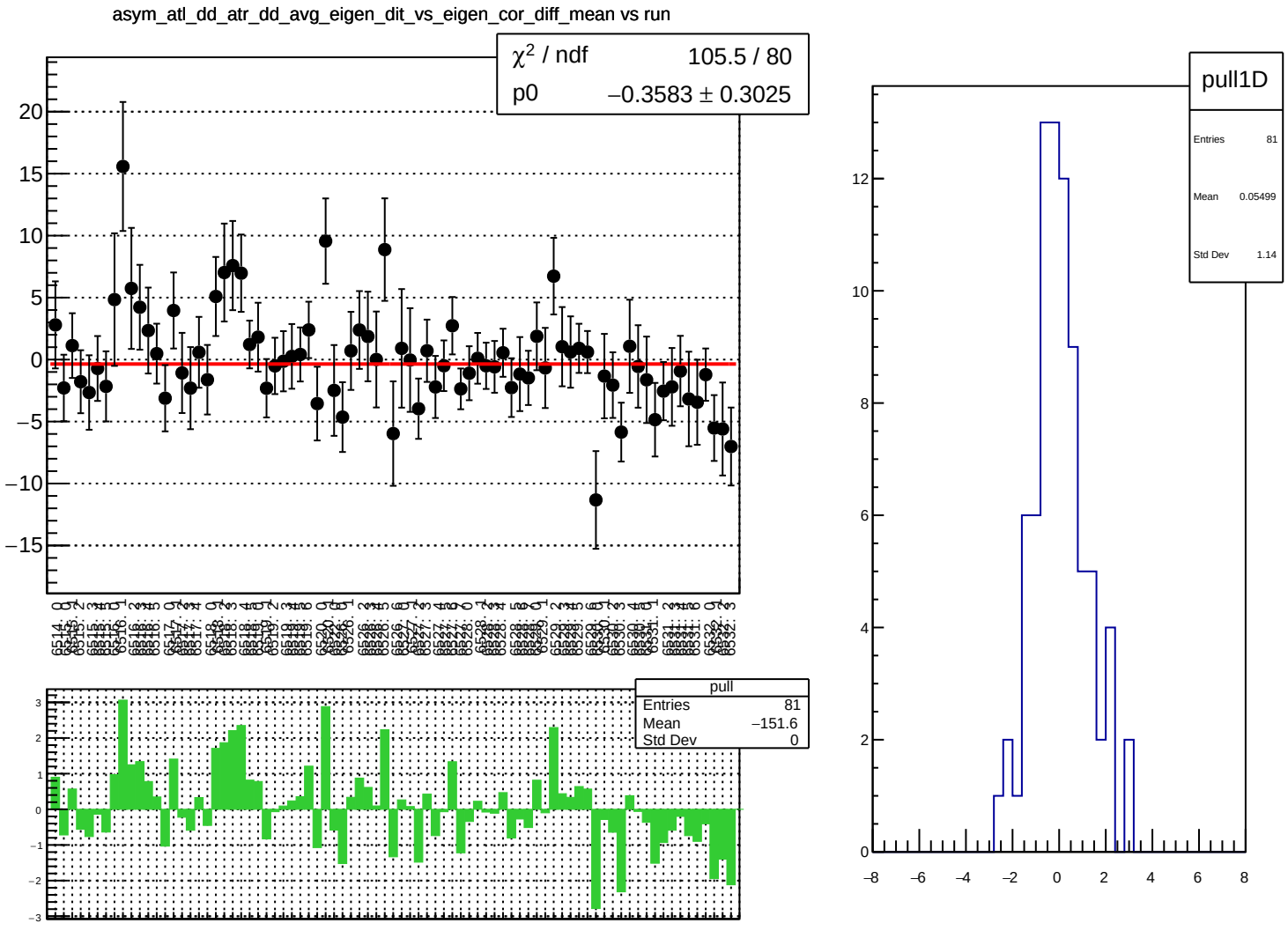

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.41 / 80
p0 −1.363e−05 ± 1.445e−05
pull
Entries 81
Mean −81.96
Std Dev 0

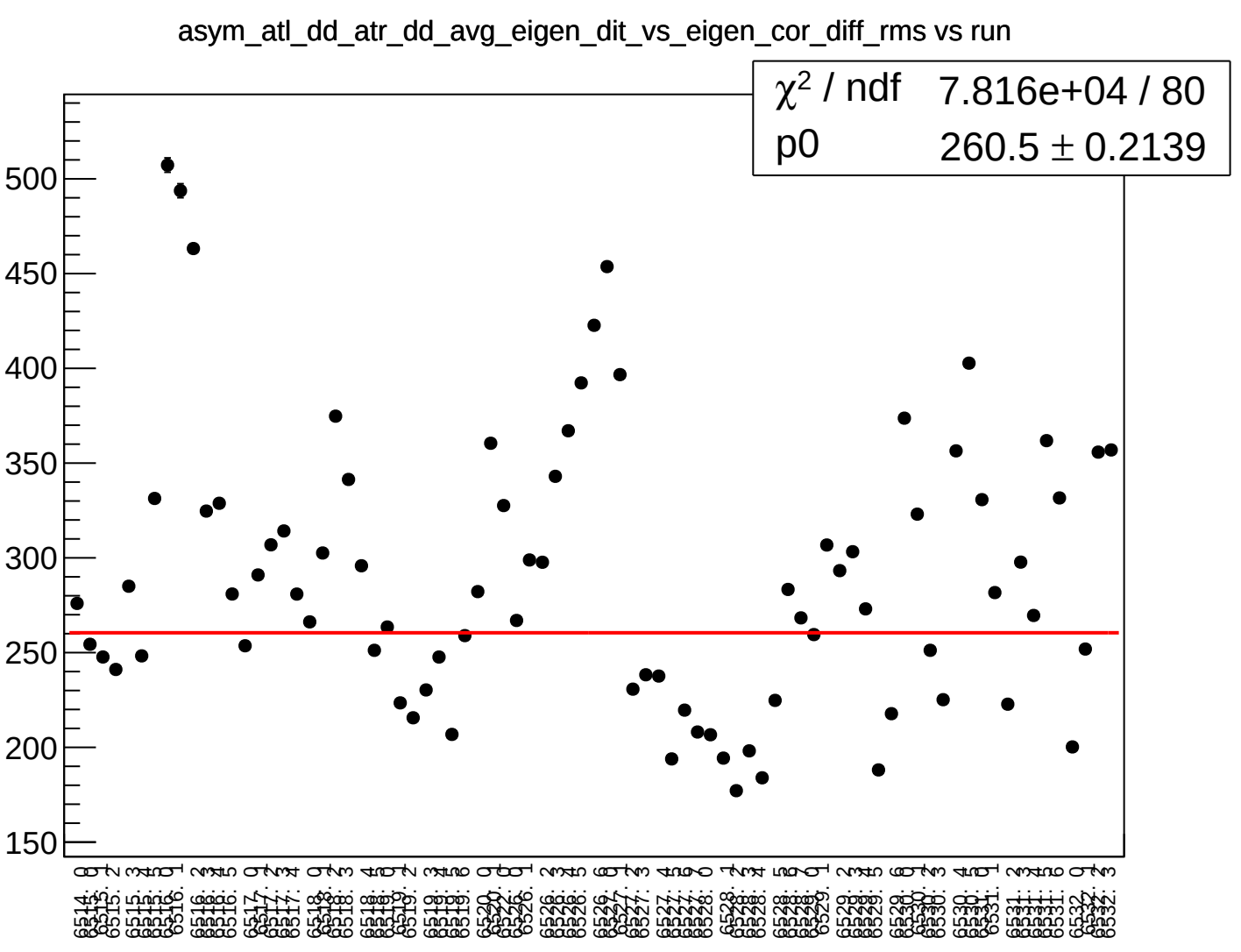

pull1D
Entries 81
Mean 0.009436
Std Dev 1.091

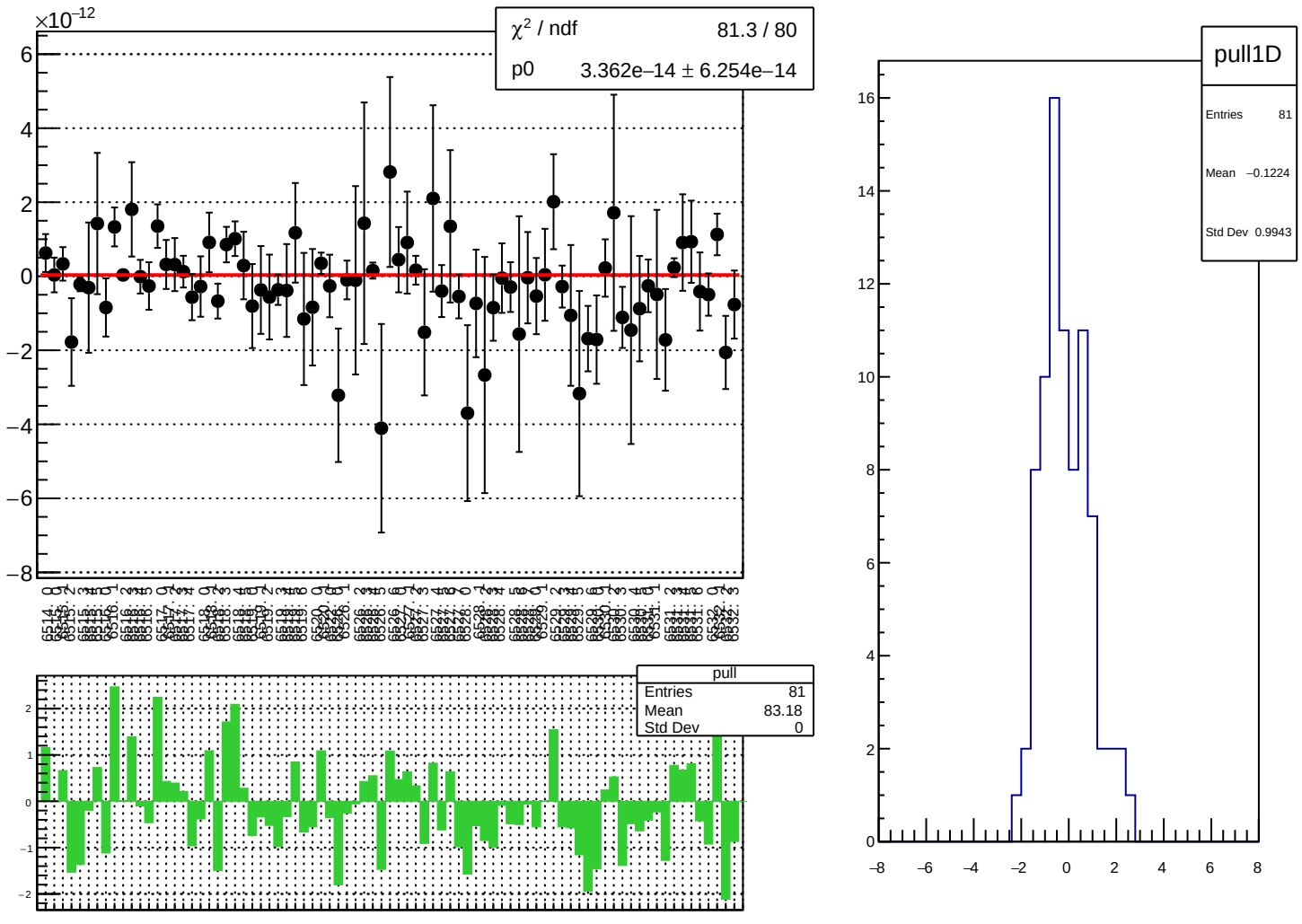

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.367e+04 / 80
p0 0.01259 ± 1.022e−05
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009

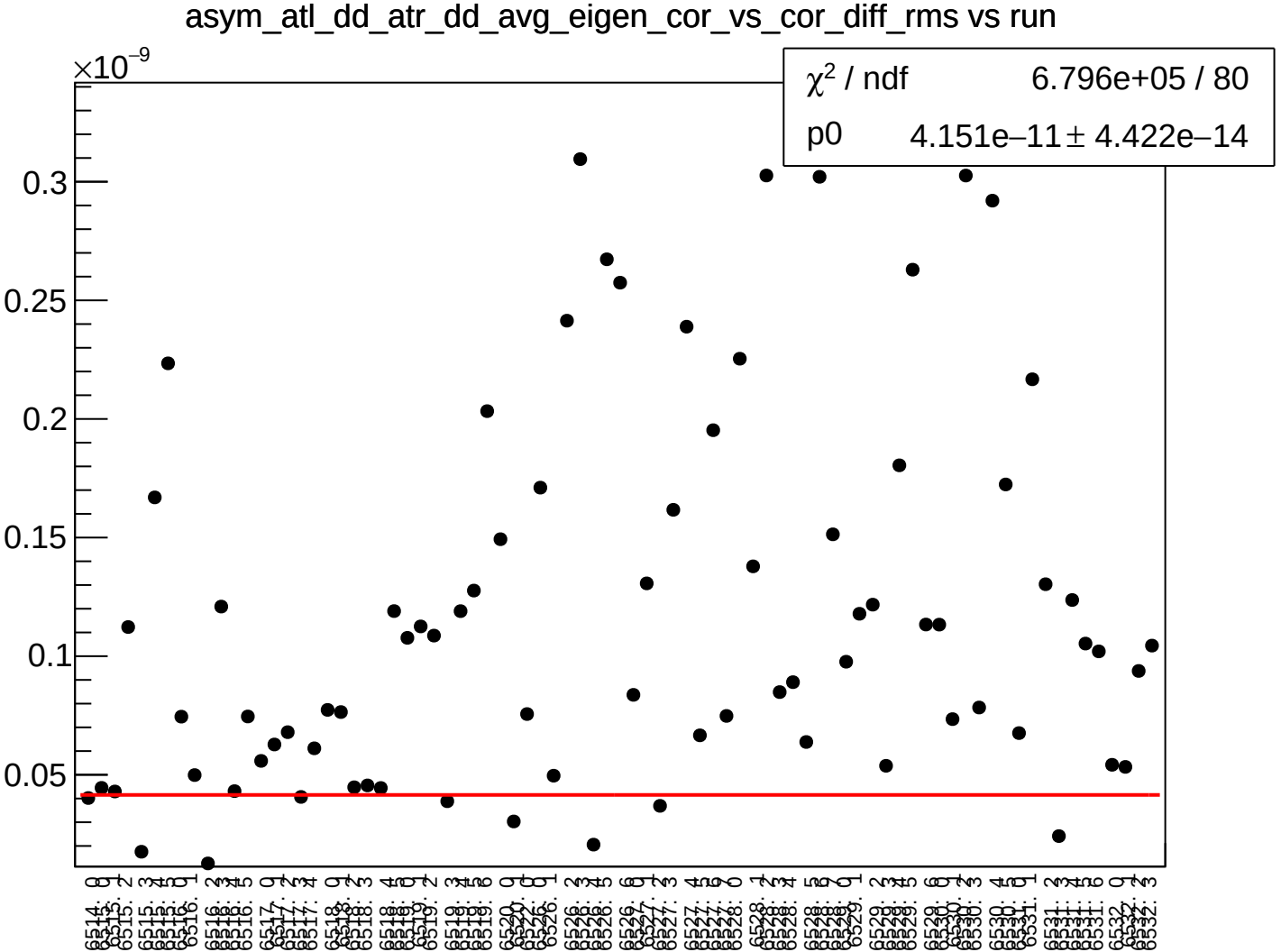

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 105.5 / 80
p0 −0.3583 ± 0.3025
pull
Entries 81
Mean −151.6
Std Dev 0
pull1D
Entries 81
Mean 0.05499
Std Dev 1.14

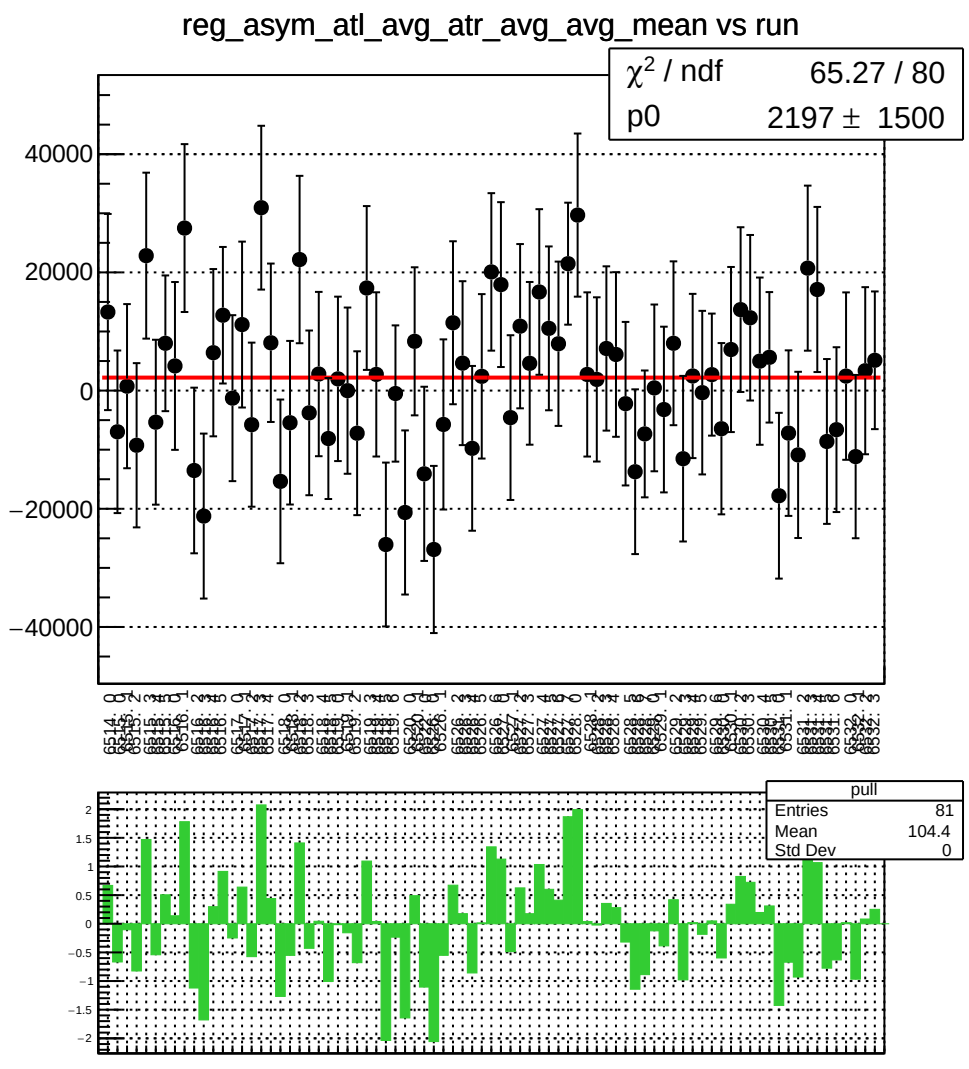

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.816e+04 / 80
p0 260.5 ± 0.2139
500
450
400
350
300
250
200
150

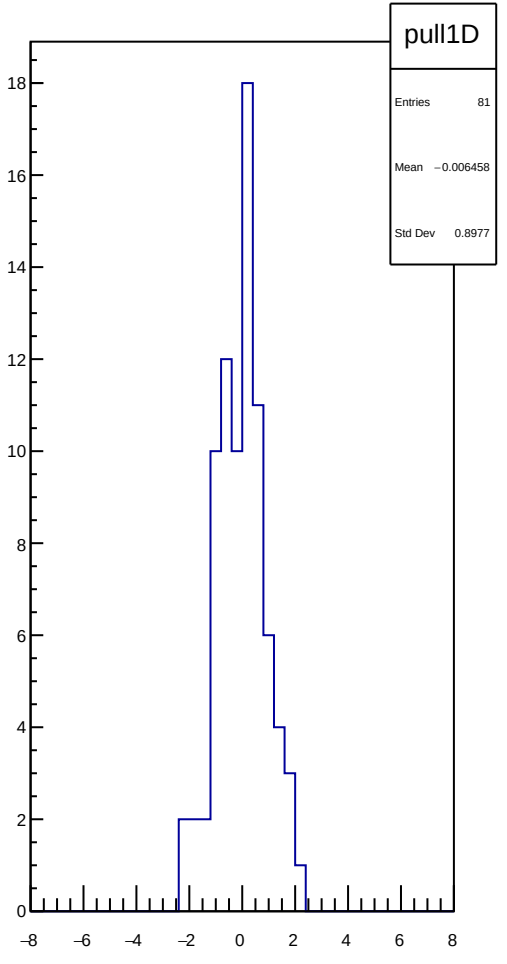

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.5 / 80
p0 −0.3583 ± 0.3025
pull
Entries 81
Mean −151.6
Std Dev 0
pull1D
Entries 81
Mean 0.05499
Std Dev 1.14

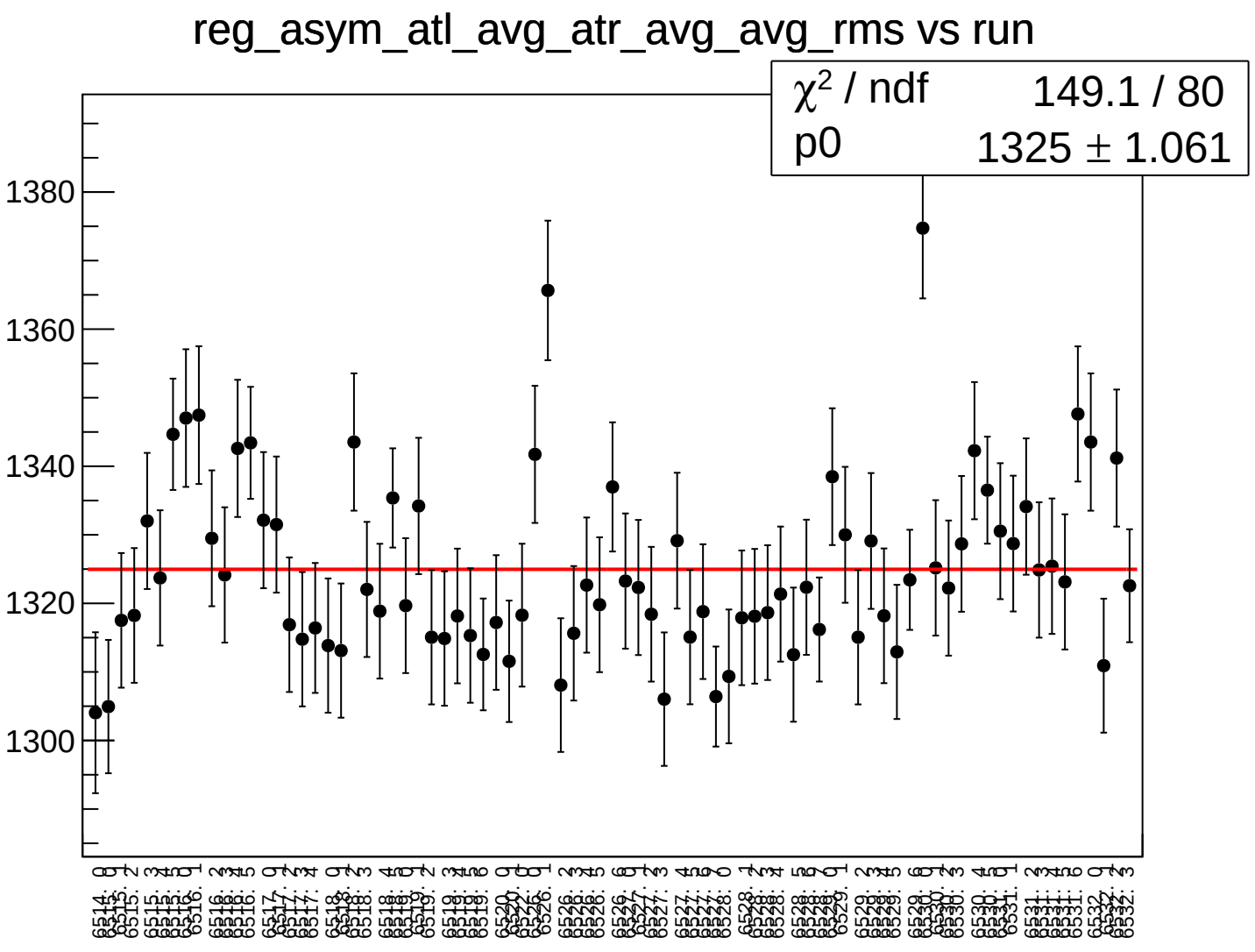

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.816e+04 / 80
p0 260.5 ± 0.2139
500
450
400
350
300
250
200
150

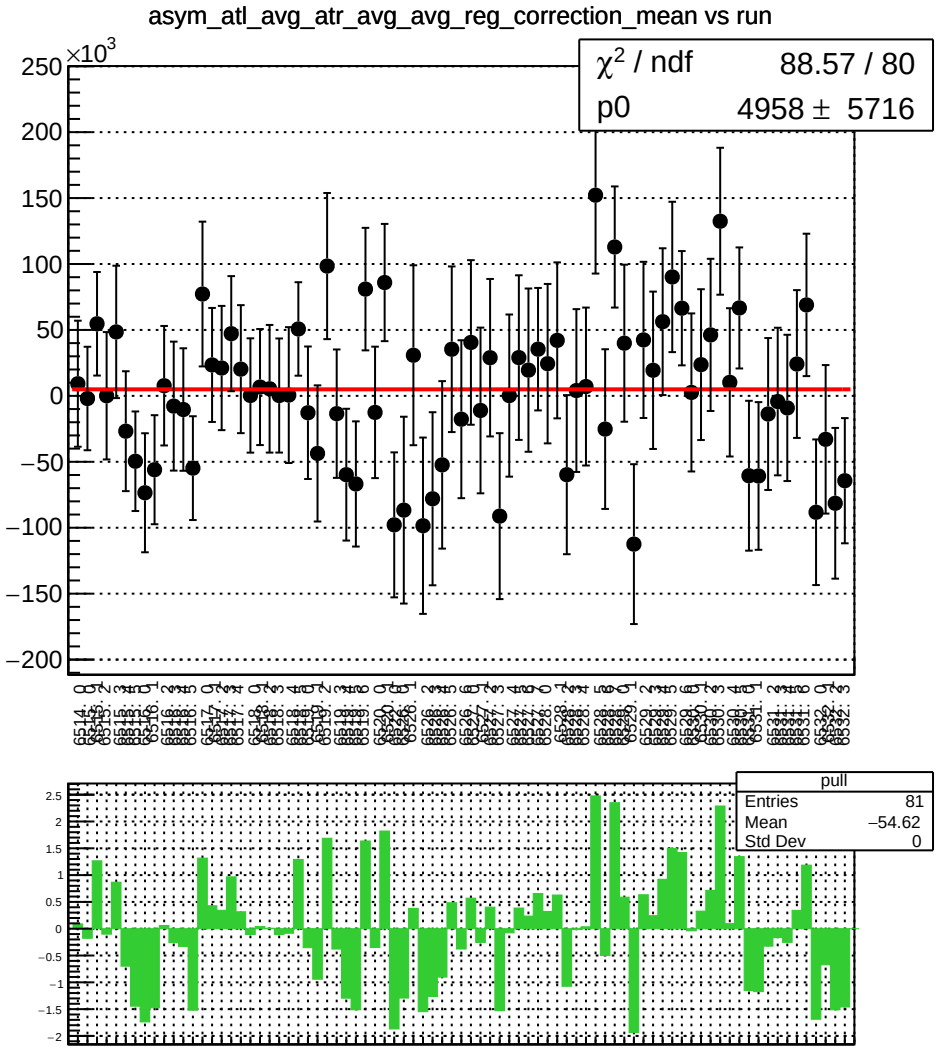

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.3 / 80
p0 3.362e−14 ± 6.254e−14
pull
Entries 81
Mean 83.18
Std Dev 0
pull1D
Entries 81
Mean −0.1224
Std Dev 0.9943

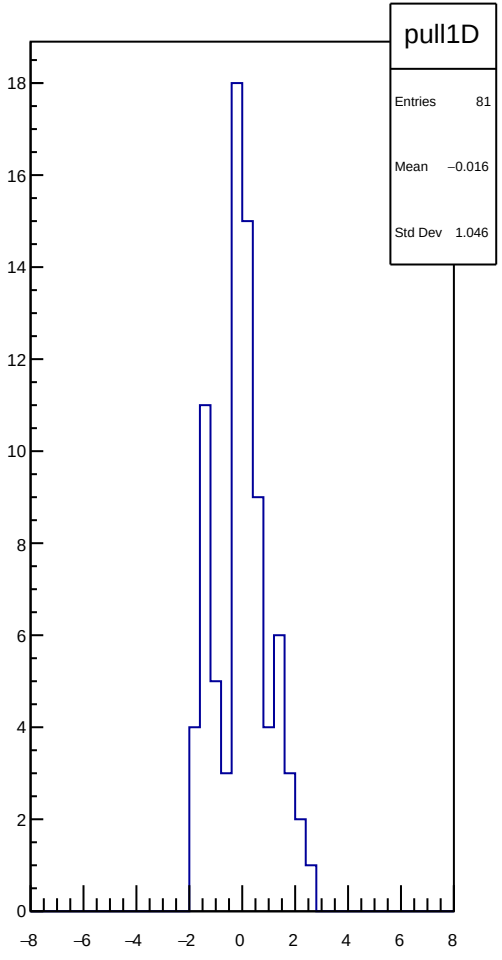

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.796e+05 / 80
p0 4.151e−11 ± 4.422e−14
0.3
0.25
0.2
0.15
0.1
0.05

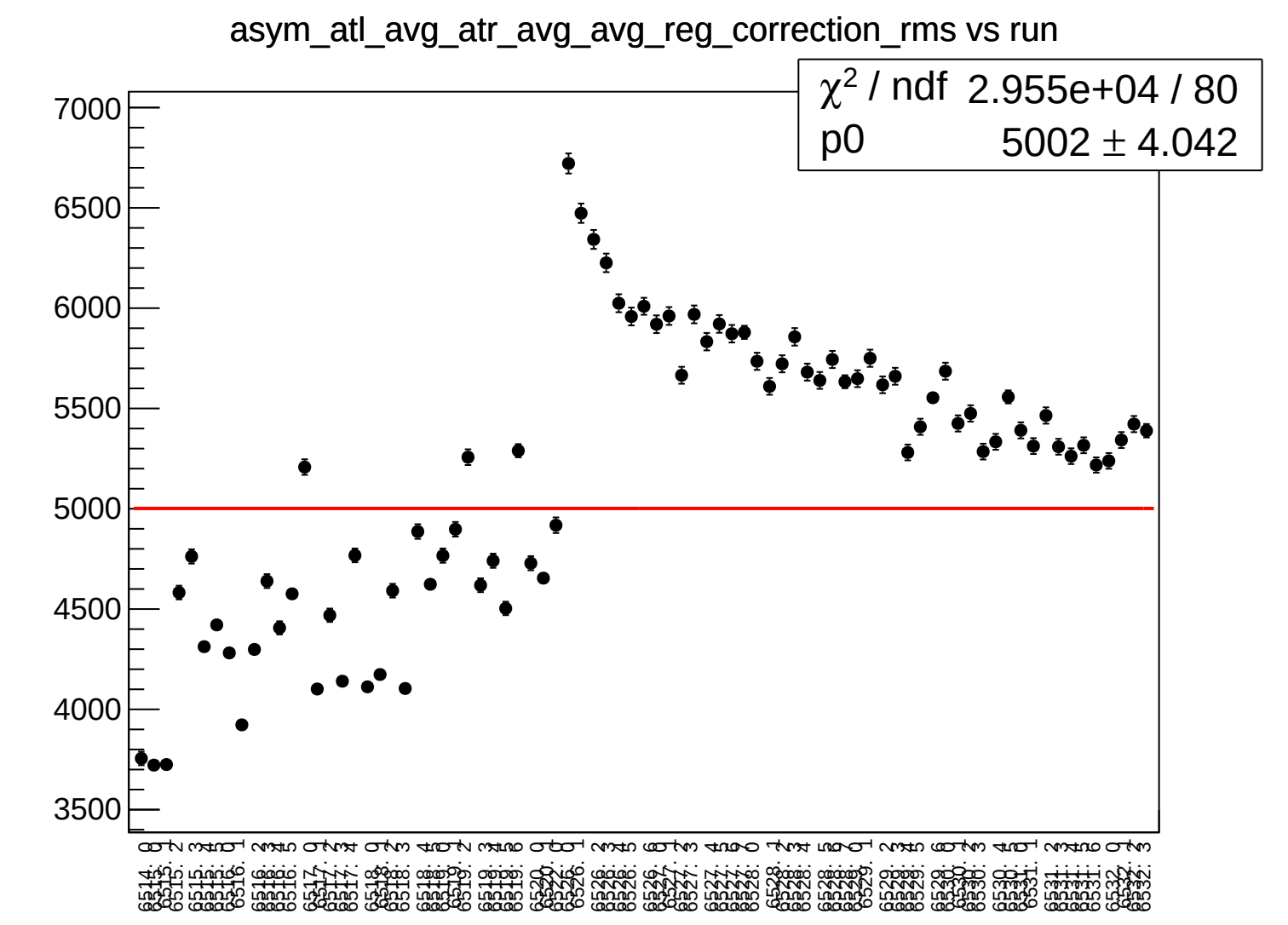

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 65.27 / 80
p0 2197 ± 1500
40000
20000
0
−20000
−40000
pull
Entries 81
Mean 104.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

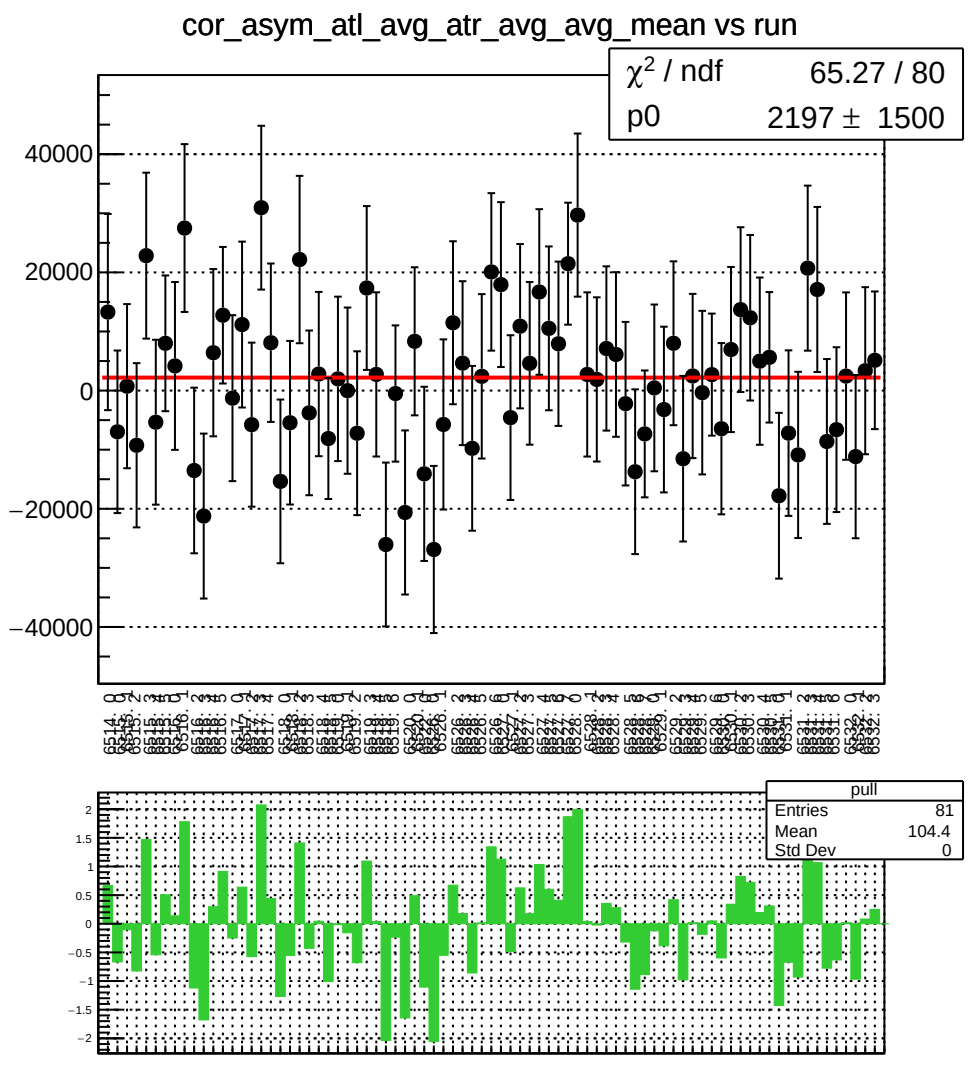

pull1D
Entries 81
Mean −0.006458
Std Dev 0.8977
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

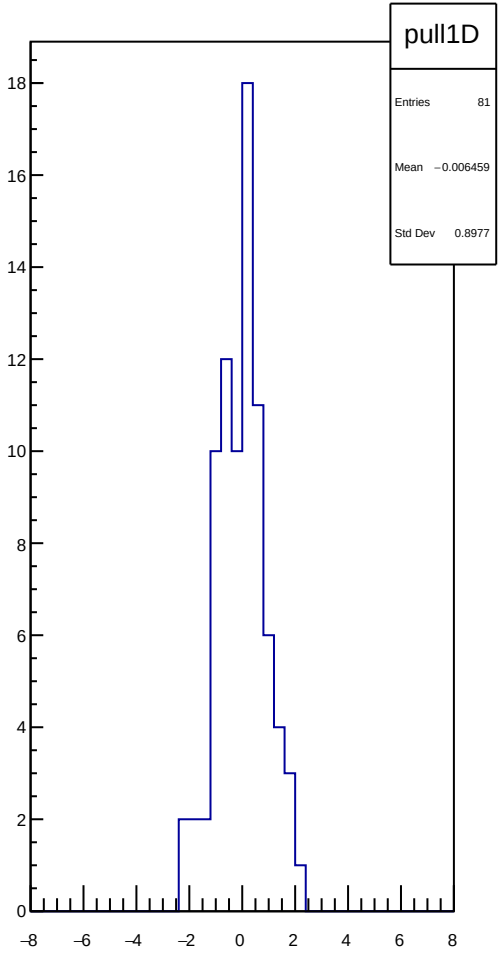

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 149.1 / 80
p0 1325 ± 1.061
1380
1360
1340
1320
1300

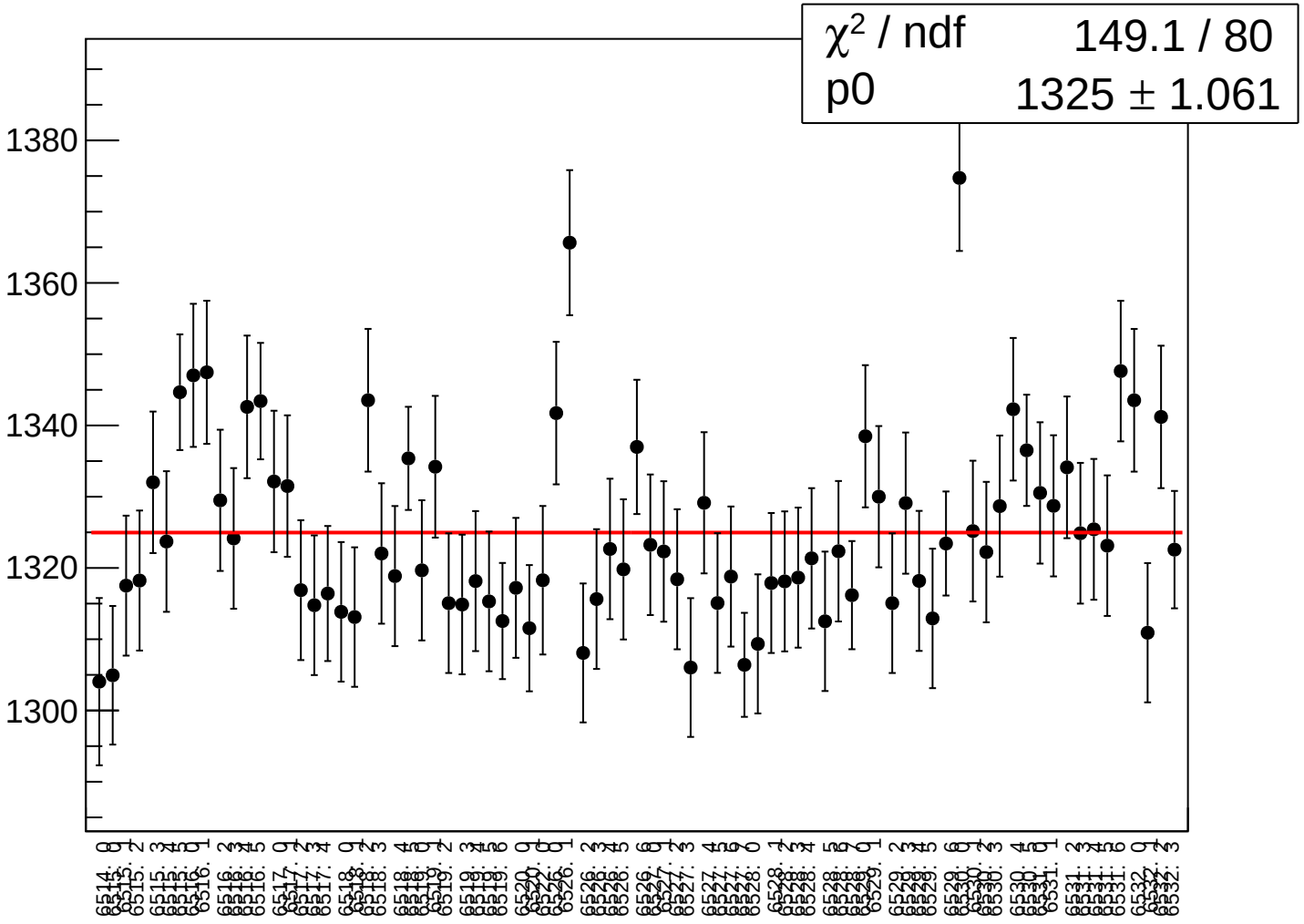

asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
χ² / ndf 88.57 / 80
p0 4958 ± 5716
pull
Entries 81
Mean −54.62
Std Dev 0

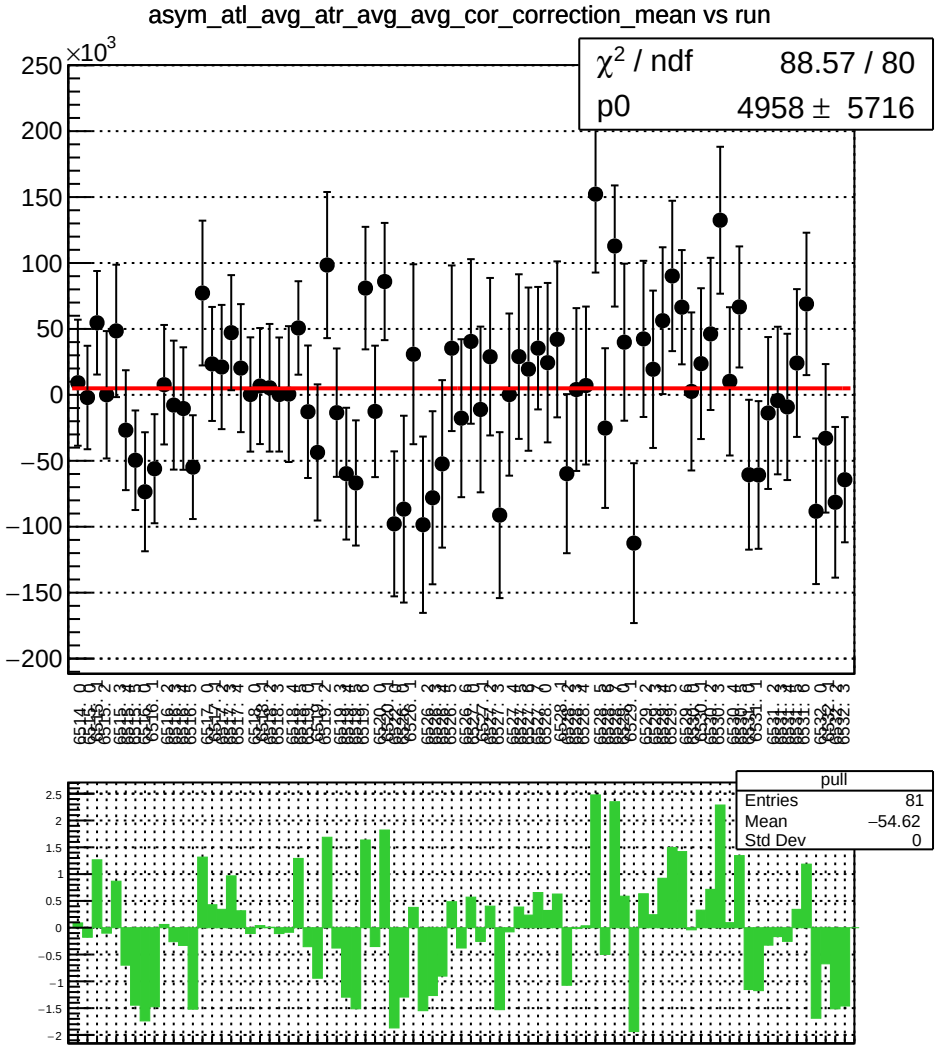

pull1D
Entries 81
Mean −0.016
Std Dev 1.046

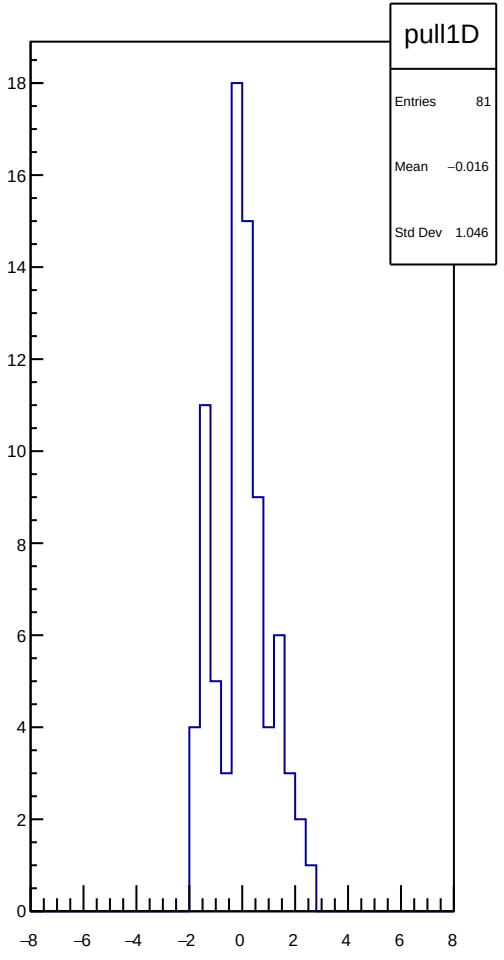

asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 2.955e+04 / 80
p0 5002 ± 4.042
7000
6500
6000
5500
5000
4500
4000
3500

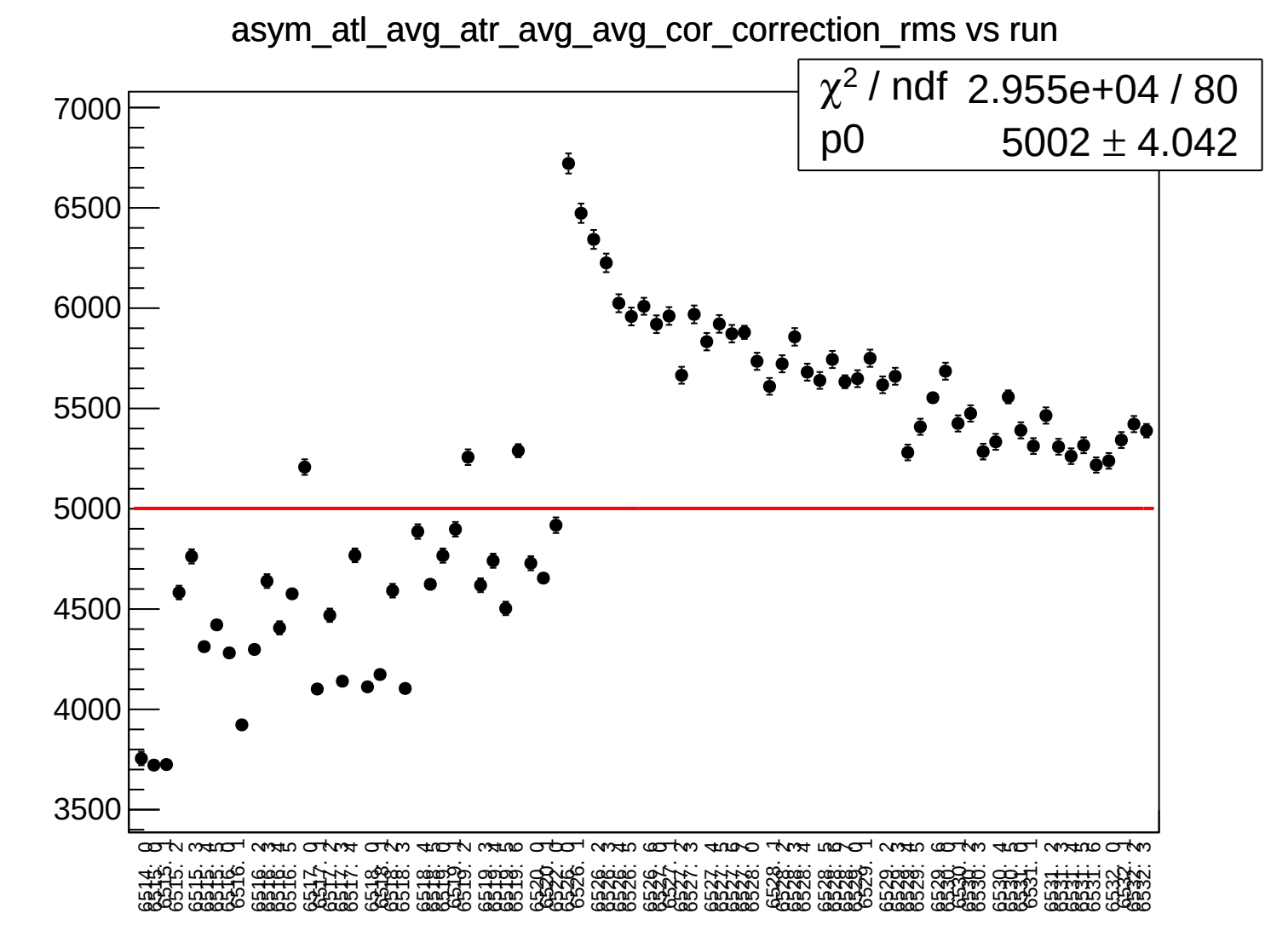

cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 65.27 / 80
p0 2197 ± 1500
40000
20000
0
−20000
−40000
pull
Entries 81
Mean 104.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

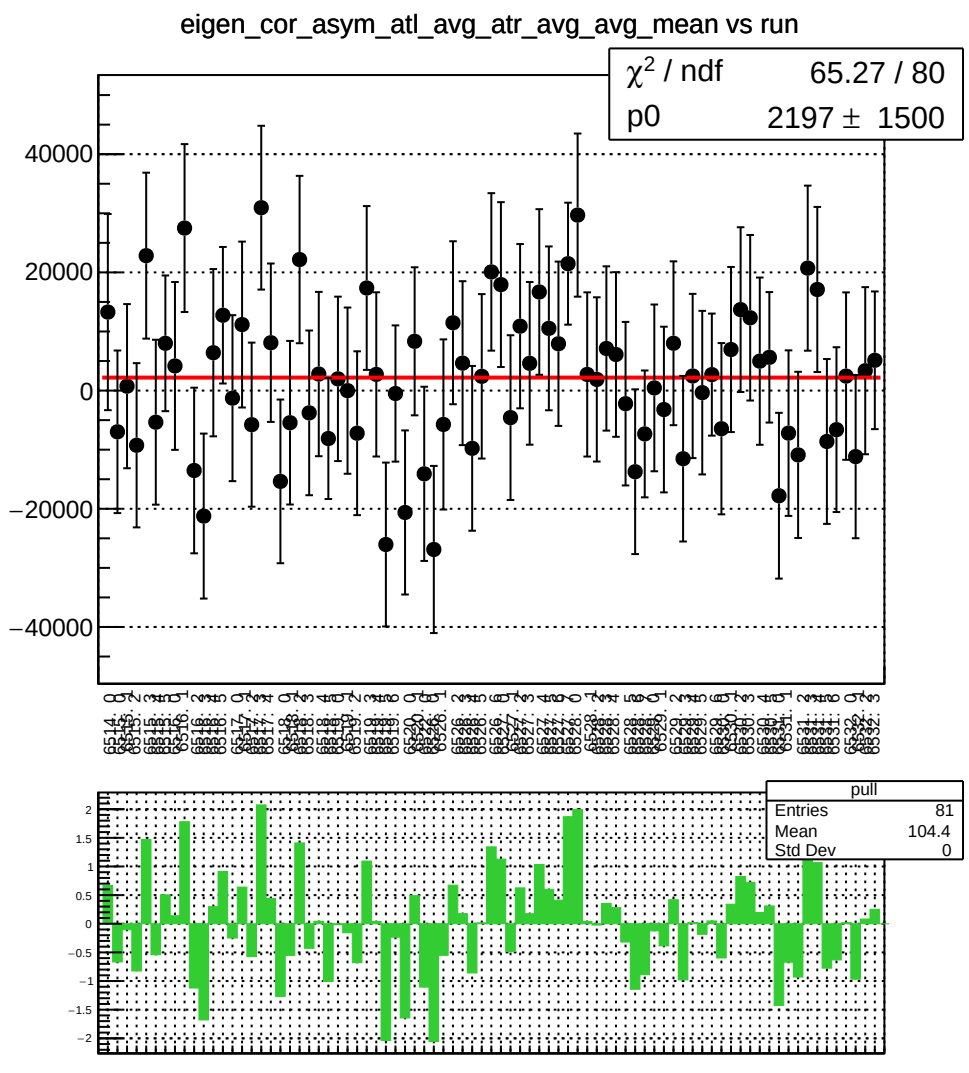

pull1D
Entries 81
Mean −0.006459
Std Dev 0.8977
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

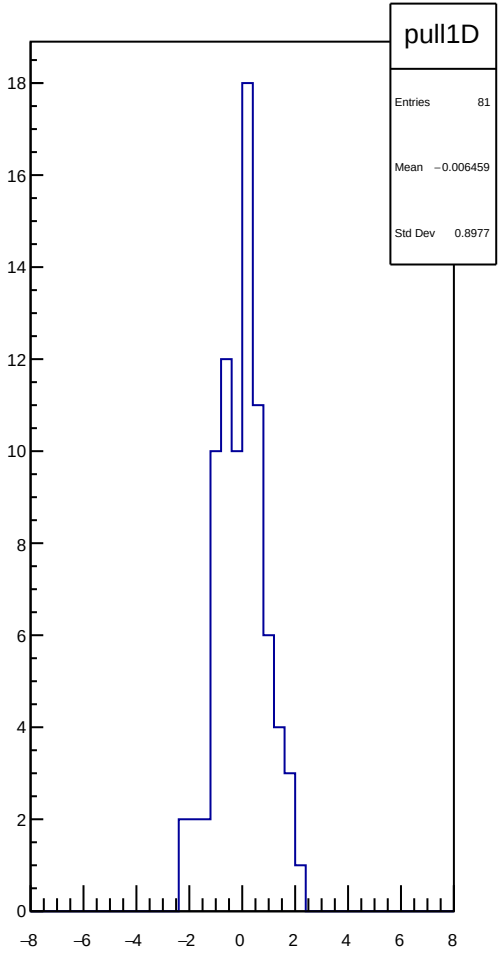

cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 149.1 / 80
p0 1325 ± 1.061
1380
1360
1340
1320
1300

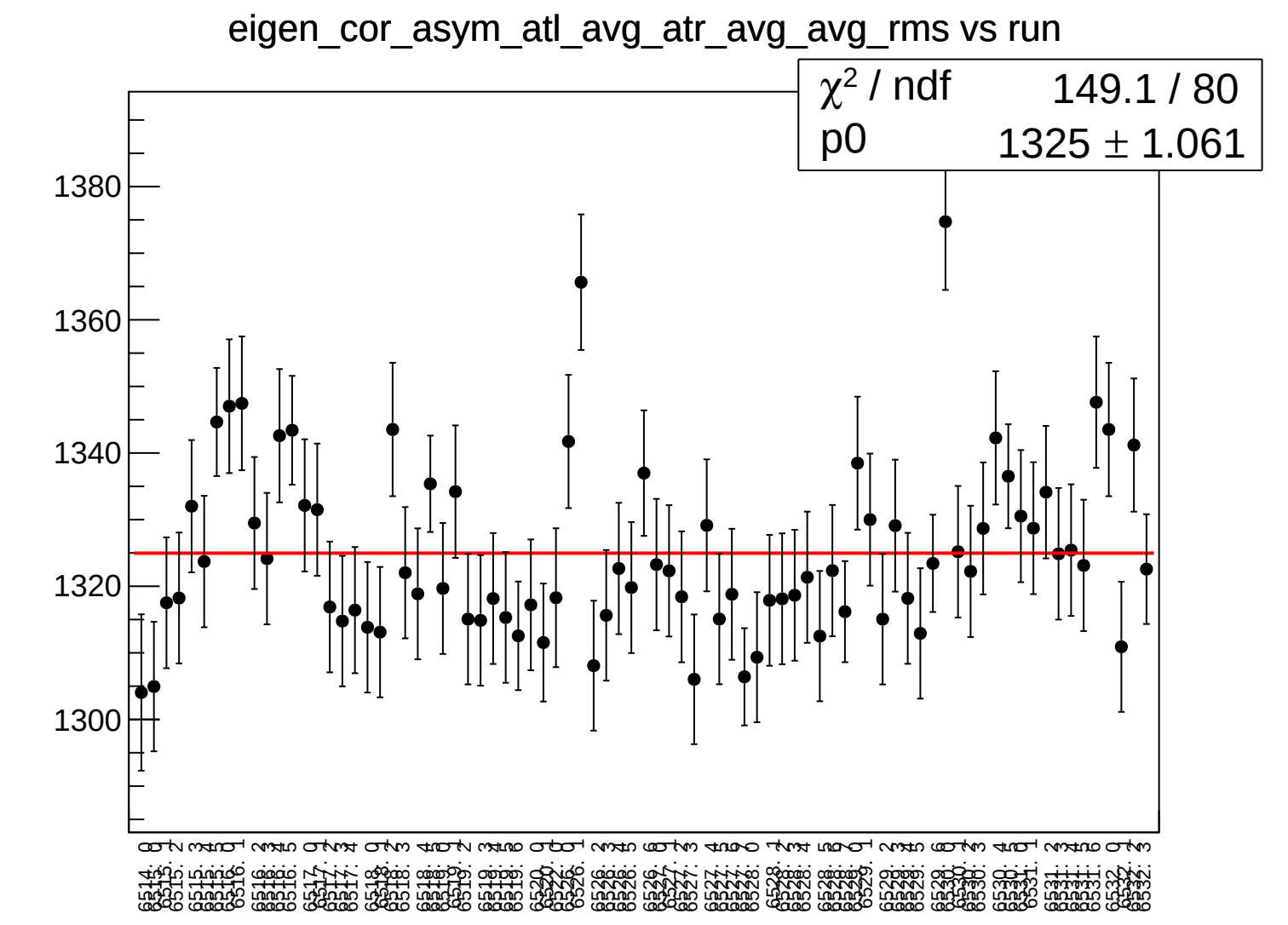

asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
χ² / ndf 88.57 / 80
p0 4958 ± 5716
×10³
pull
Entries 81
Mean −54.62
Std Dev 0

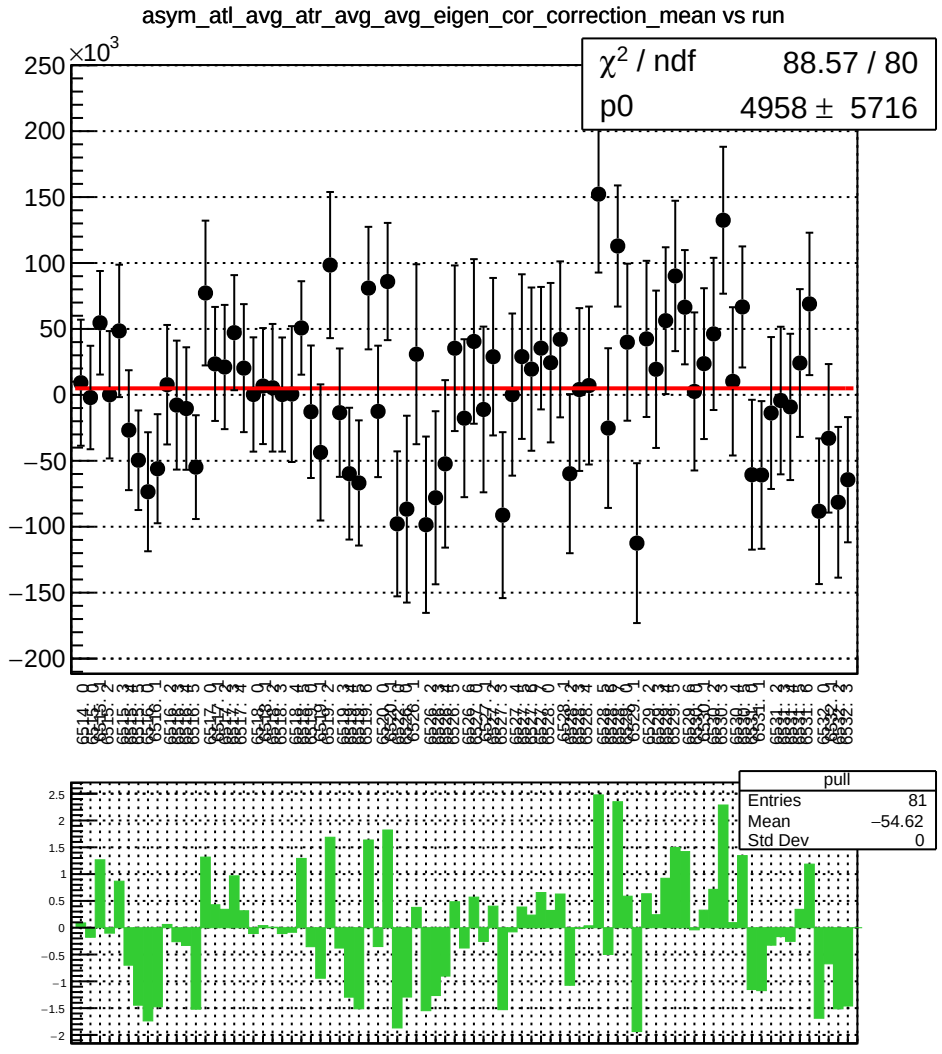

pull1D
Entries 81
Mean −0.016
Std Dev 1.046

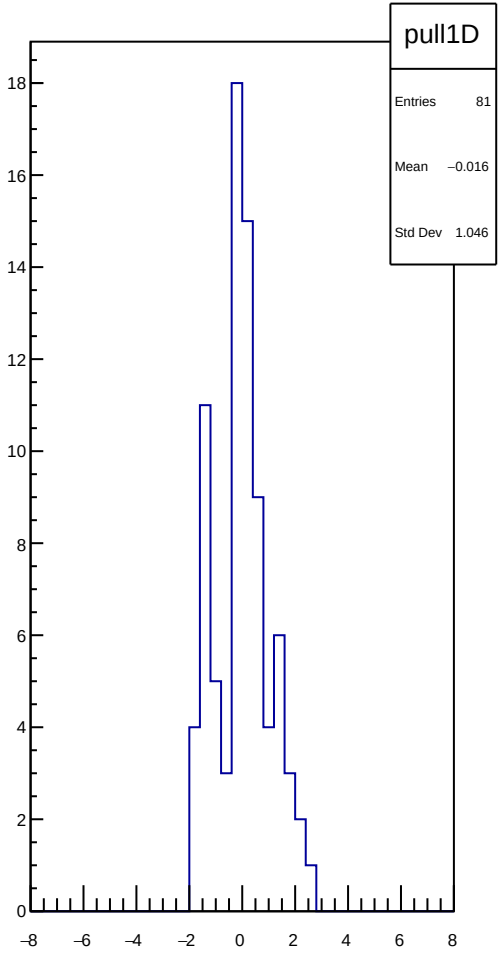

asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 2.955e+04 / 80
p0 5002 ± 4.042
7000
6500
6000
5500
5000
4500
4000
3500

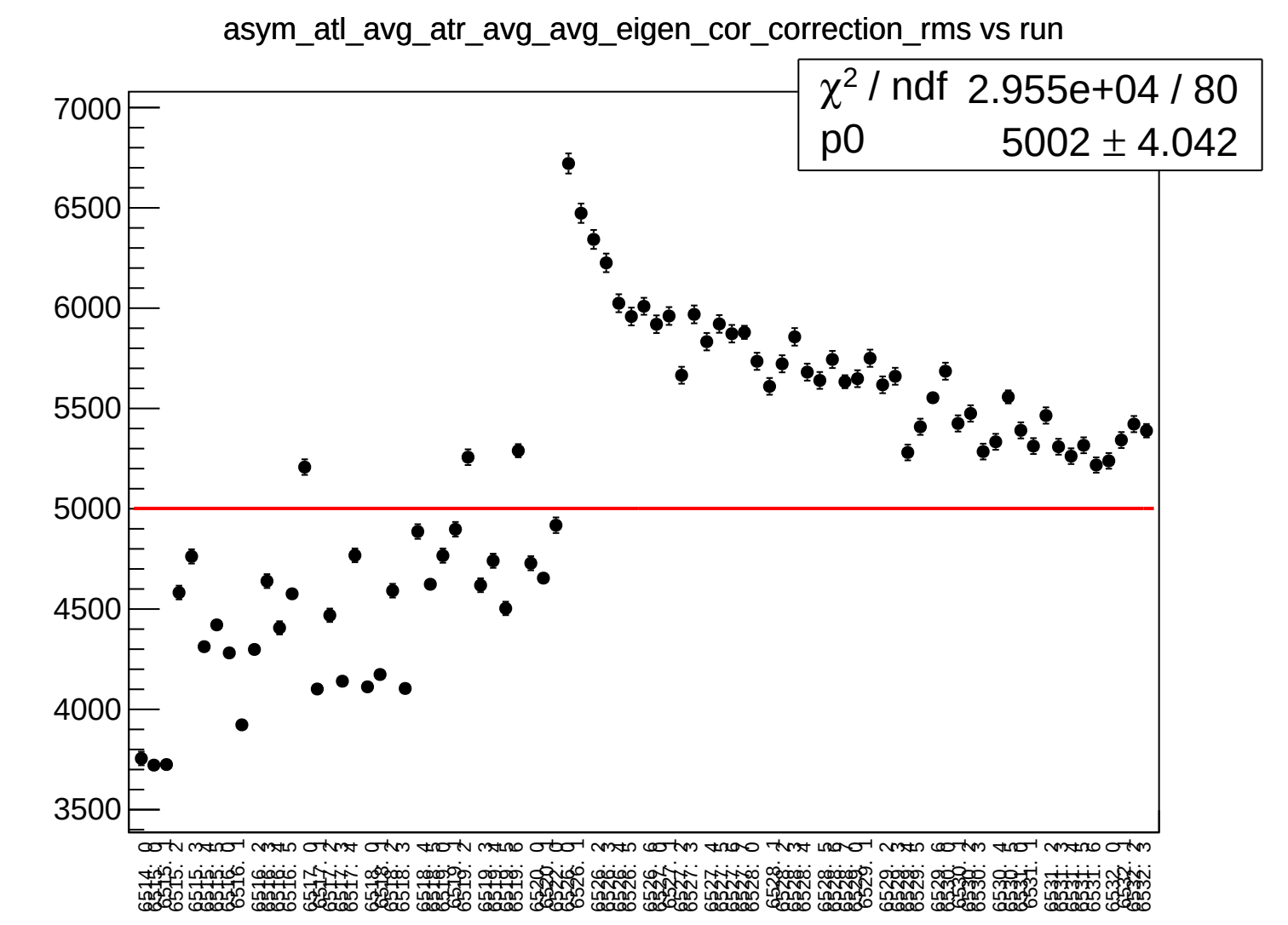

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 65.27 / 80
p0 2197 ± 1500
40000
20000
0
−20000
−40000
pull
Entries 81
Mean 104.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

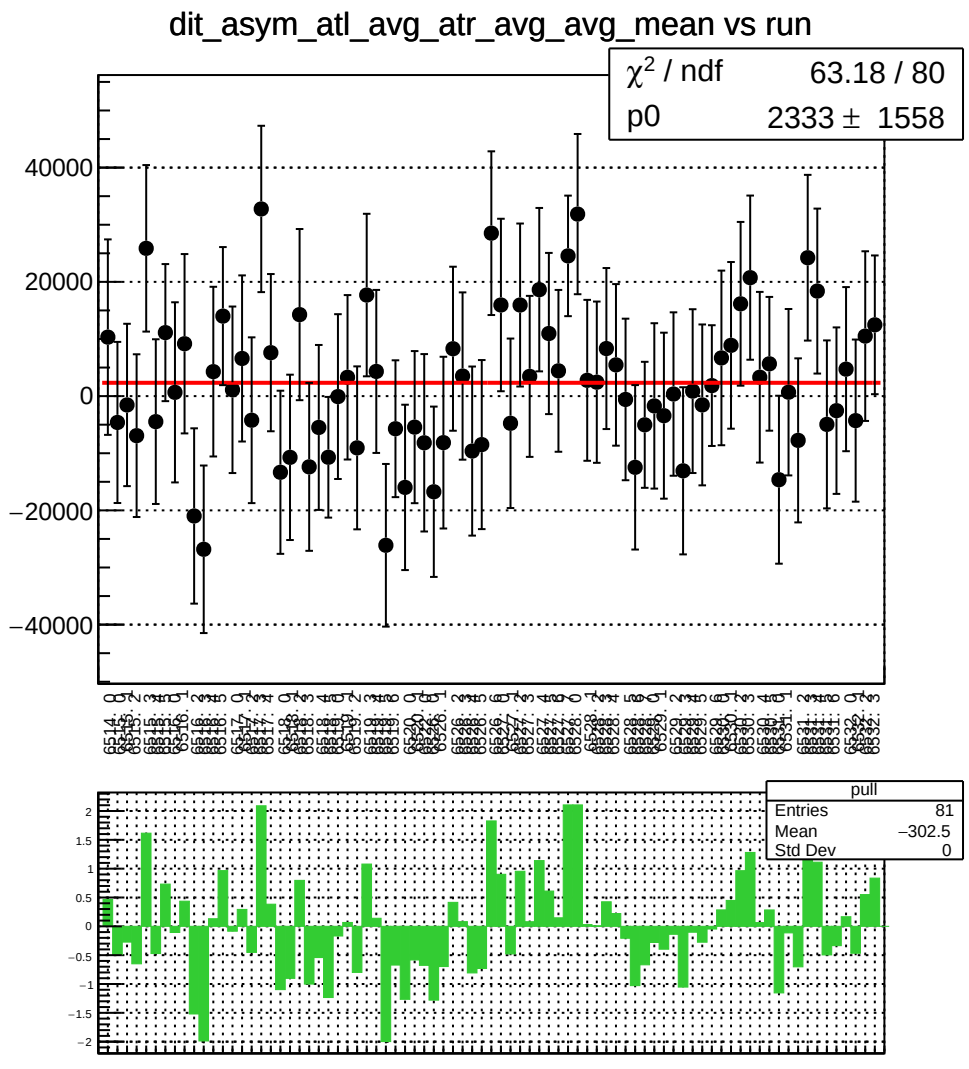

pull1D
Entries 81
Mean −0.006459
Std Dev 0.8977
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

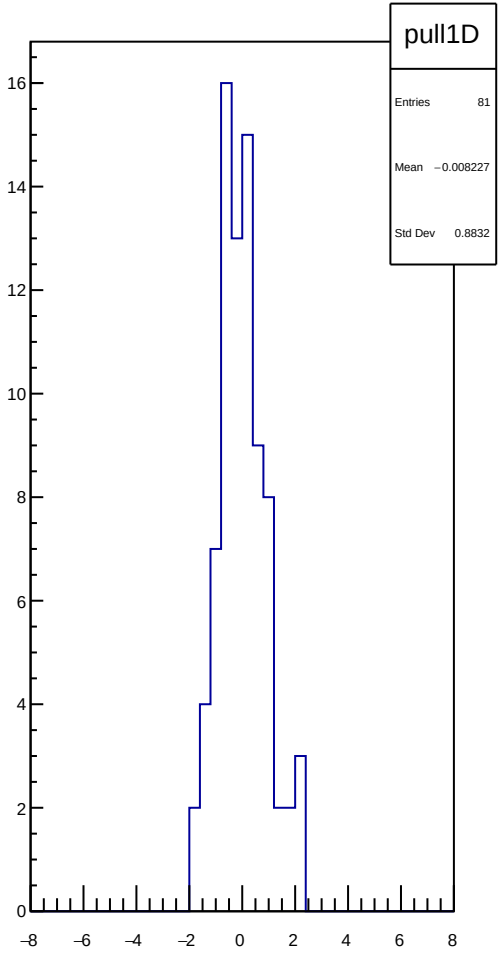

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 149.1 / 80
p0 1325 ± 1.061
1380
1360
1340
1320
1300

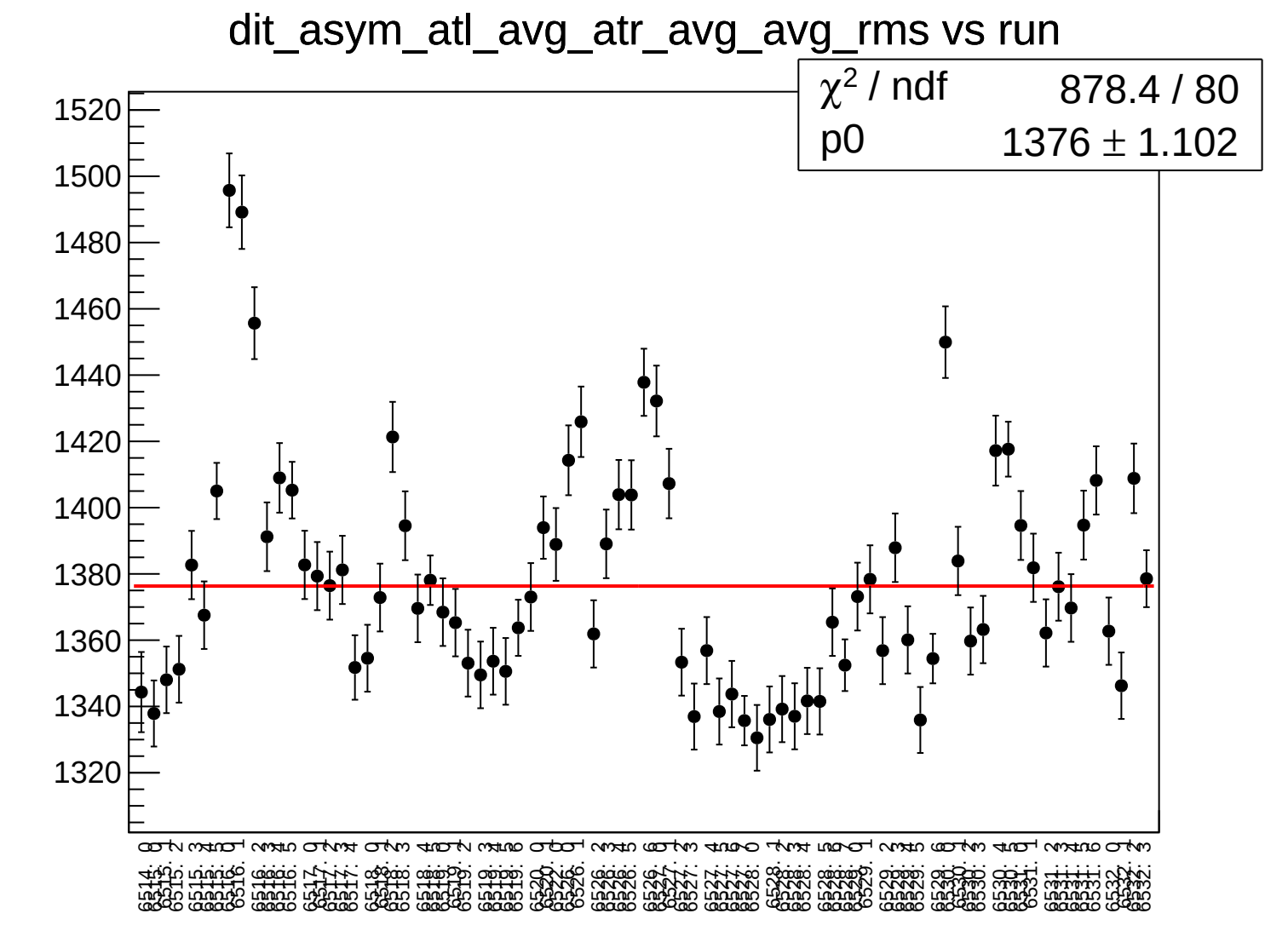

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
χ² / ndf 88.57 / 80
p0 4958 ± 5716
pull
Entries 81
Mean −54.62
Std Dev 0

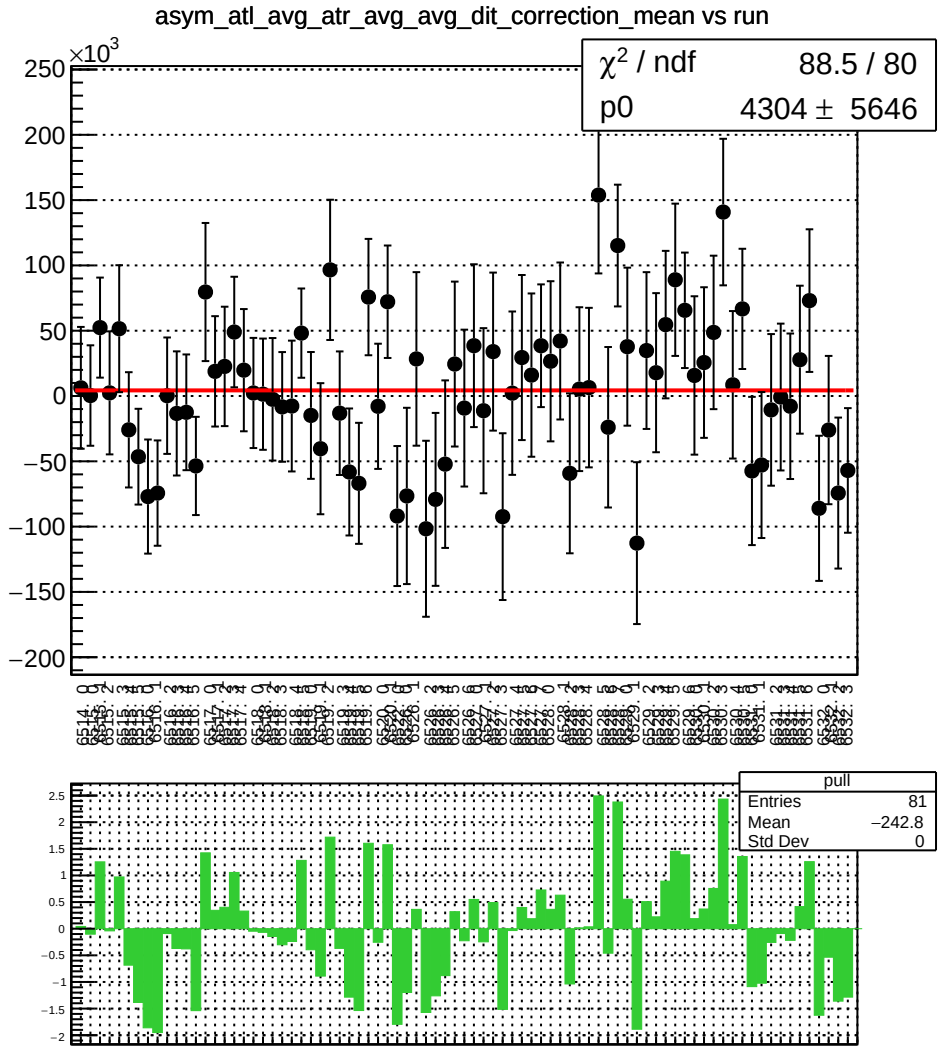

pull1D
Entries 81
Mean −0.016
Std Dev 1.046

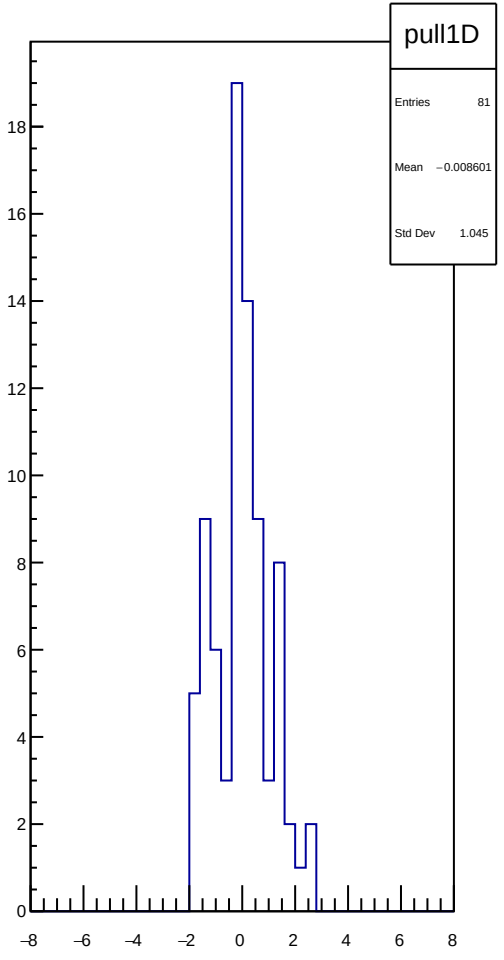

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.955e+04 / 80
p0 5002 ± 4.042
7000
6500
6000
5500
5000
4500
4000
3500

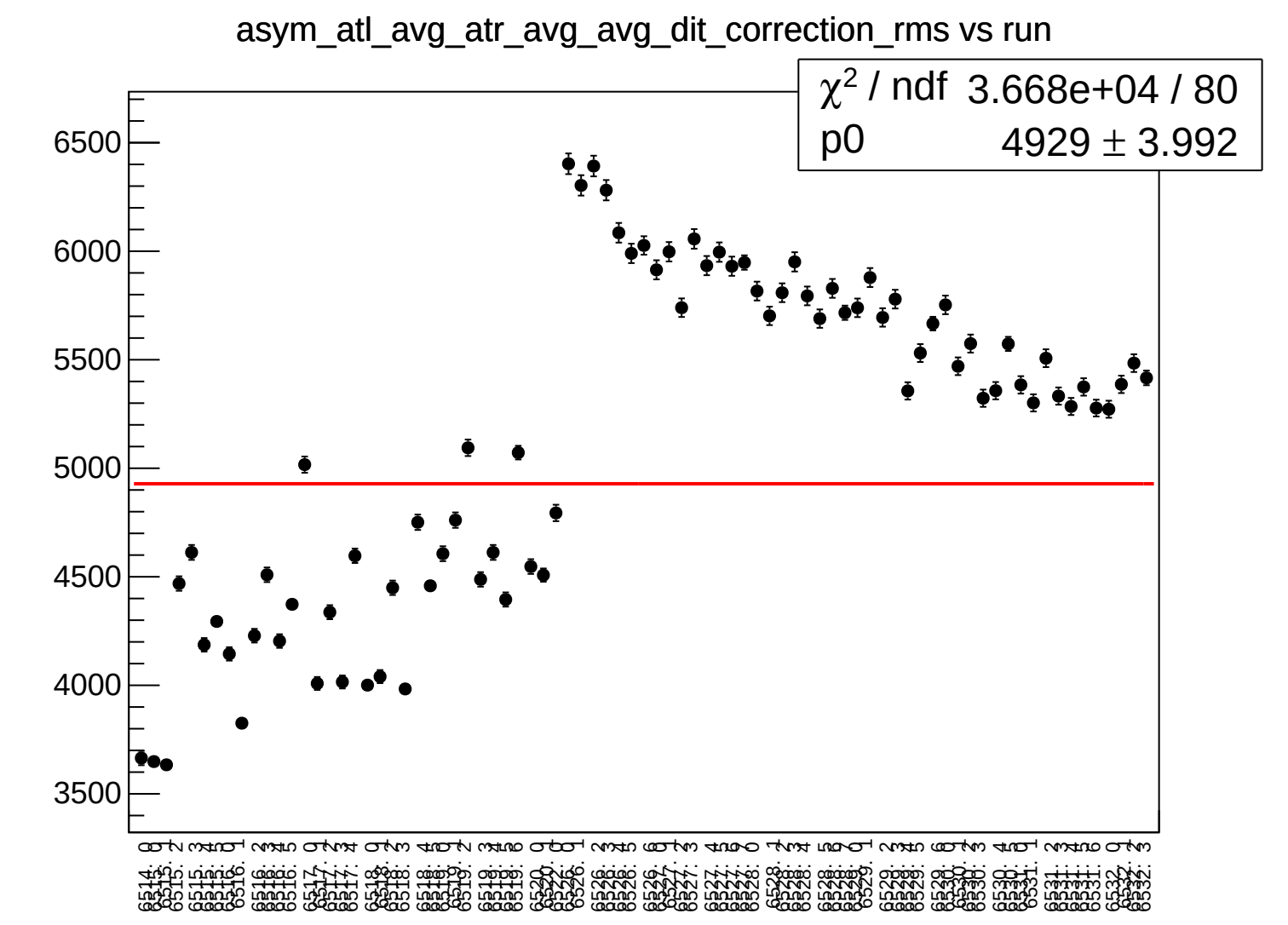

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 63.18 / 80
p0 2333 ± 1558
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −302.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

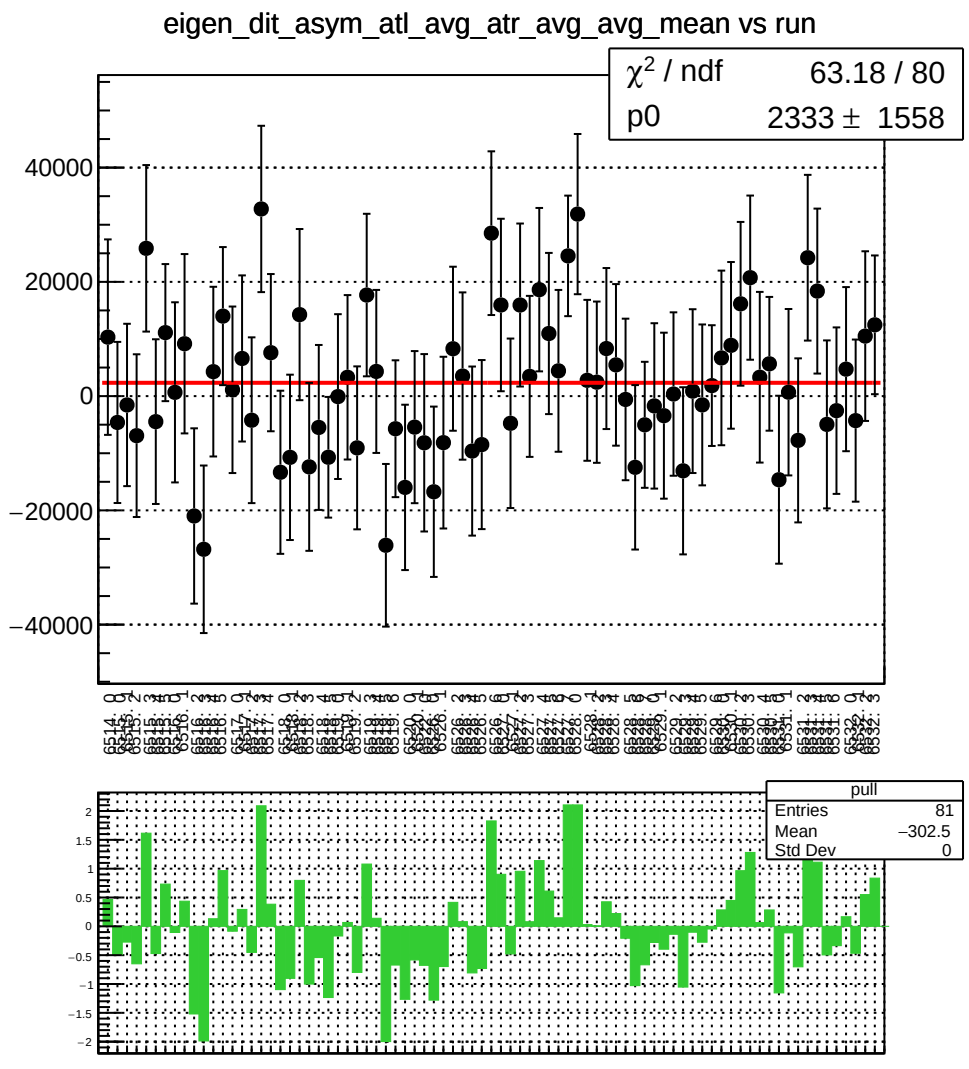

pull1D
Entries 81
Mean −0.008227
Std Dev 0.8832
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

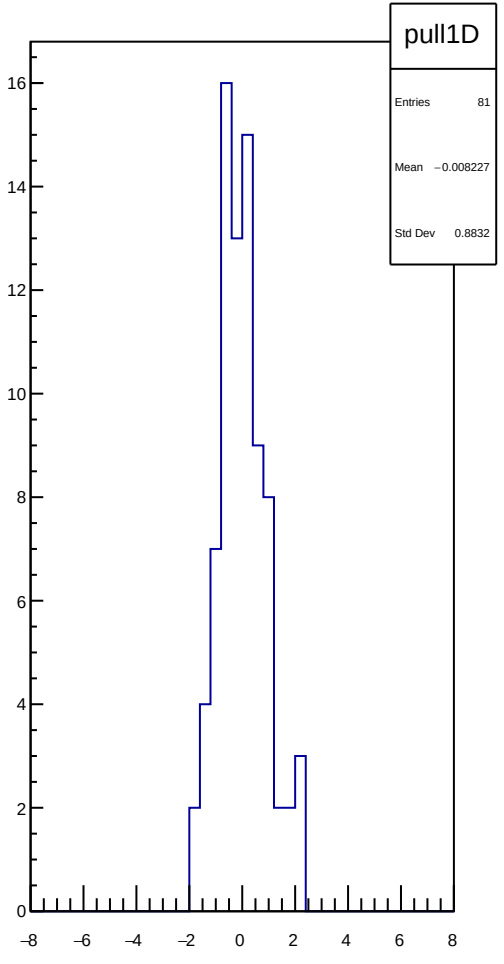

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 878.4 / 80
p0 1376 ± 1.102
1520
1500
1480
1460
1440
1420
1400
1380
1360
1340
1320

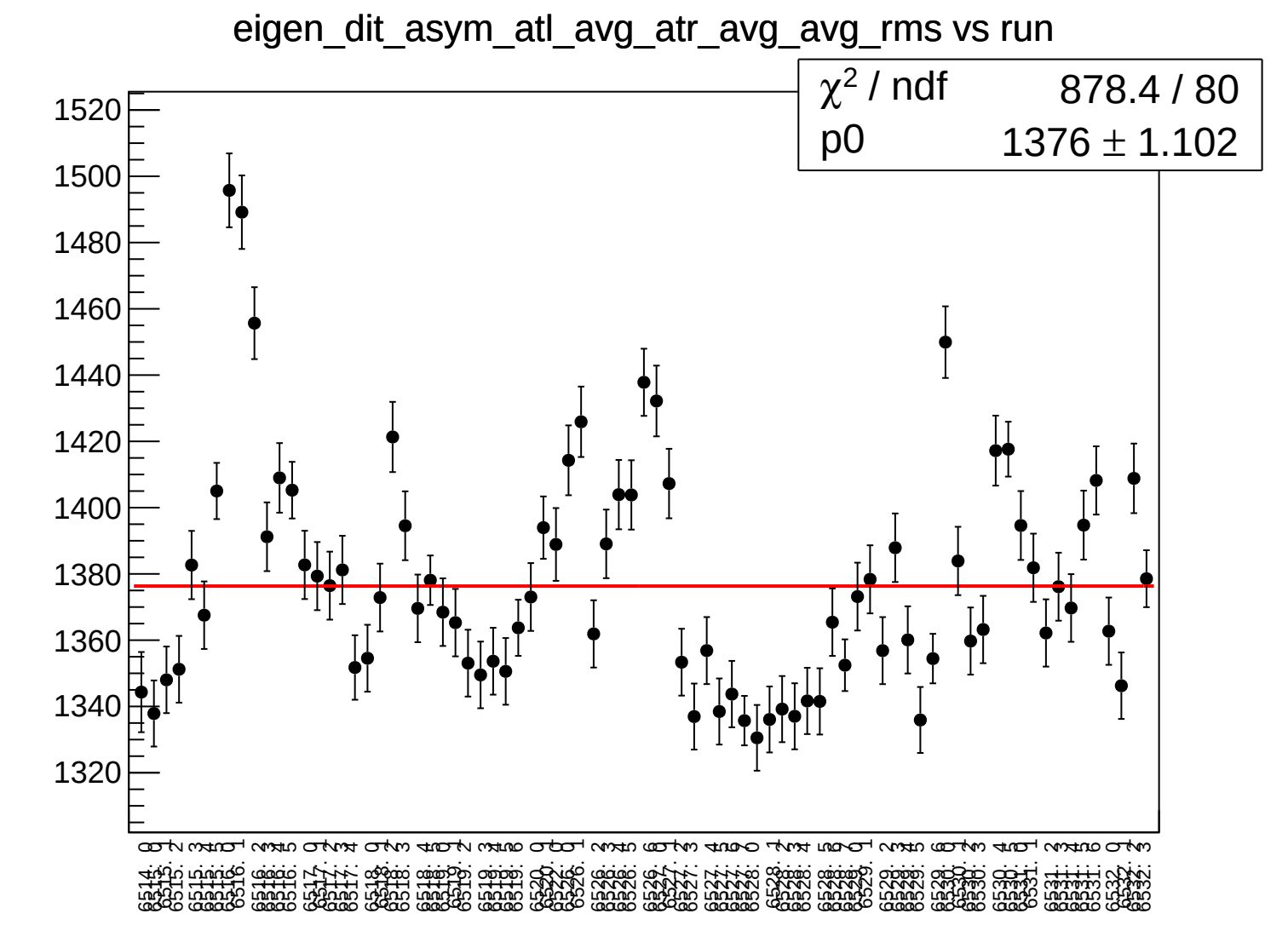

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
χ² / ndf 88.5 / 80
p0 4304 ± 5646
×10³
pull
Entries 81
Mean −242.8
Std Dev 0

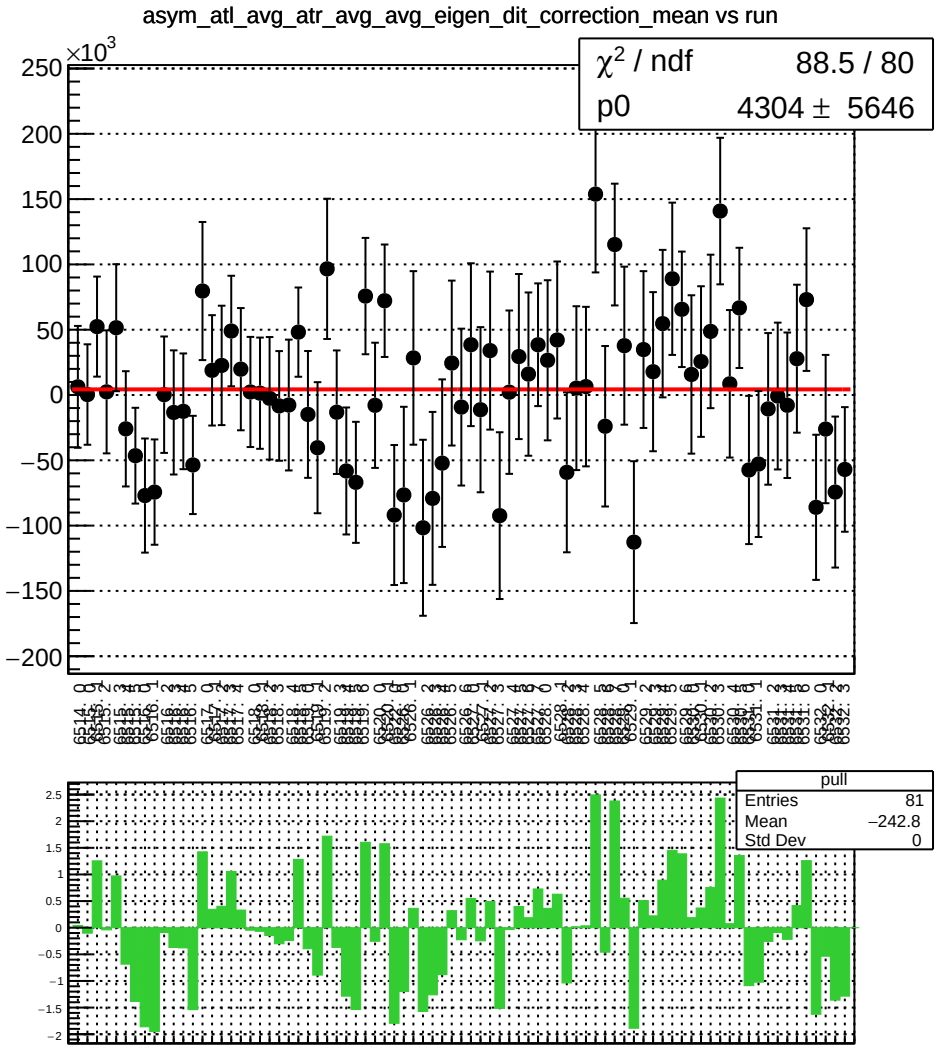

pull1D
Entries 81
Mean −0.008601
Std Dev 1.045

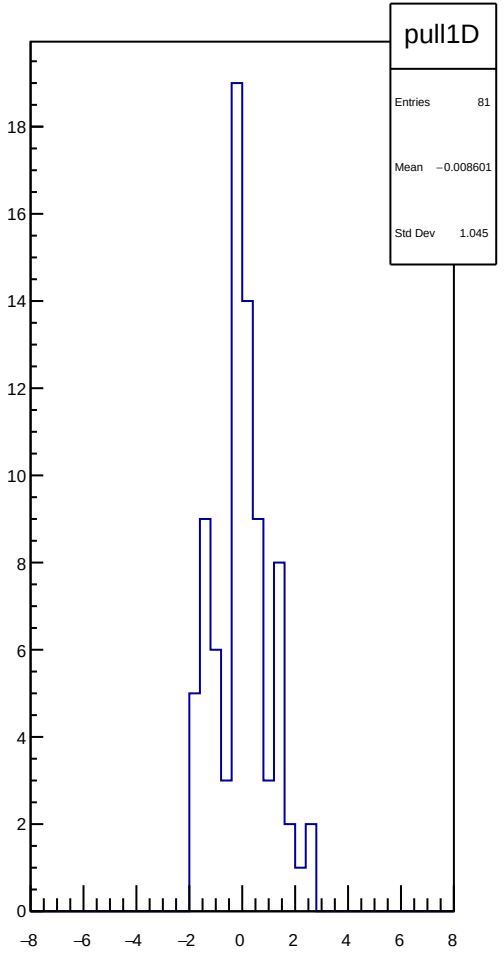

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 3.668e+04 / 80
p0 4929 ± 3.992
6500
6000
5500
5000
4500
4000
3500

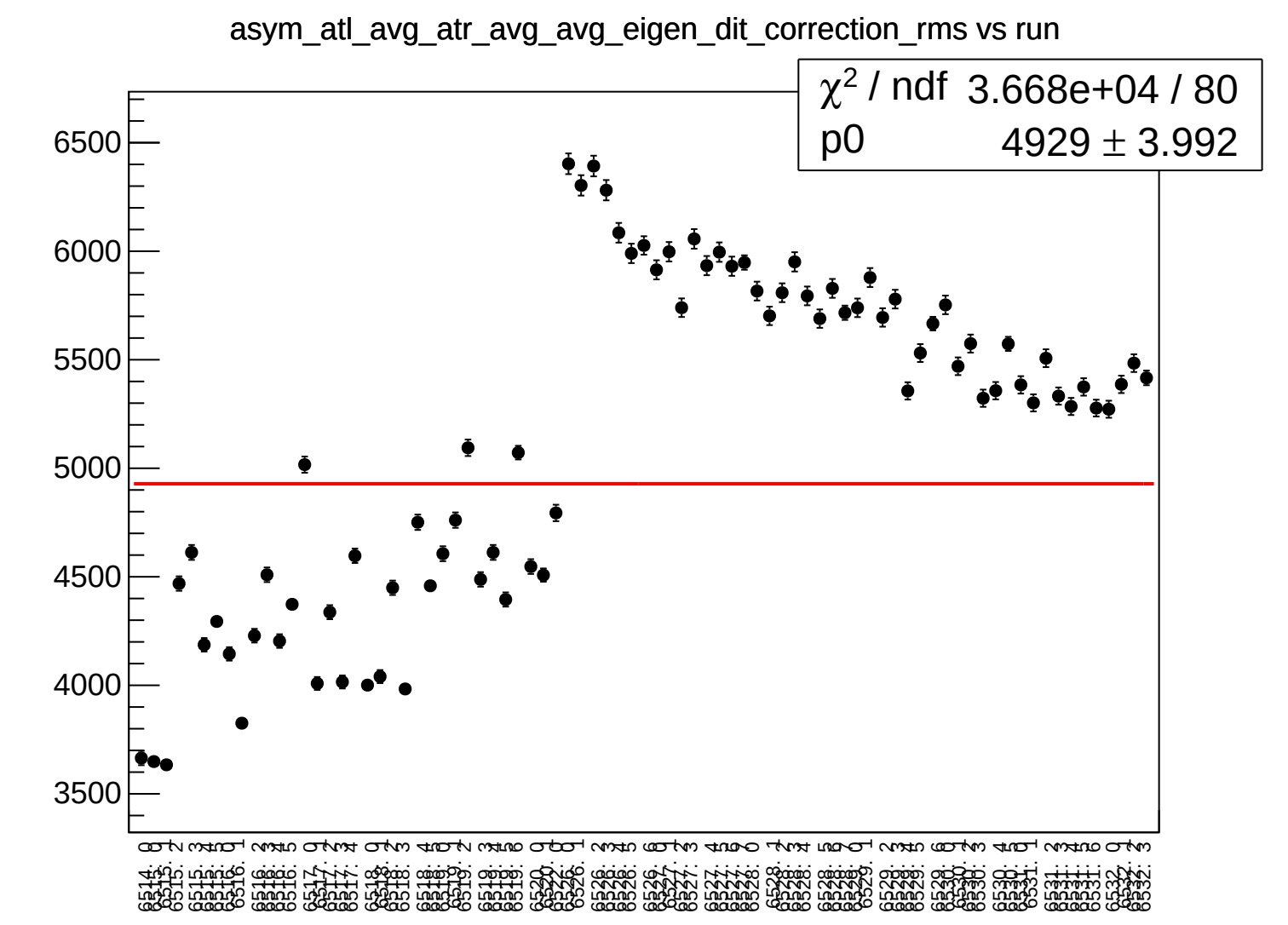

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 63.18 / 80
p0 2333 ± 1558
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −302.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

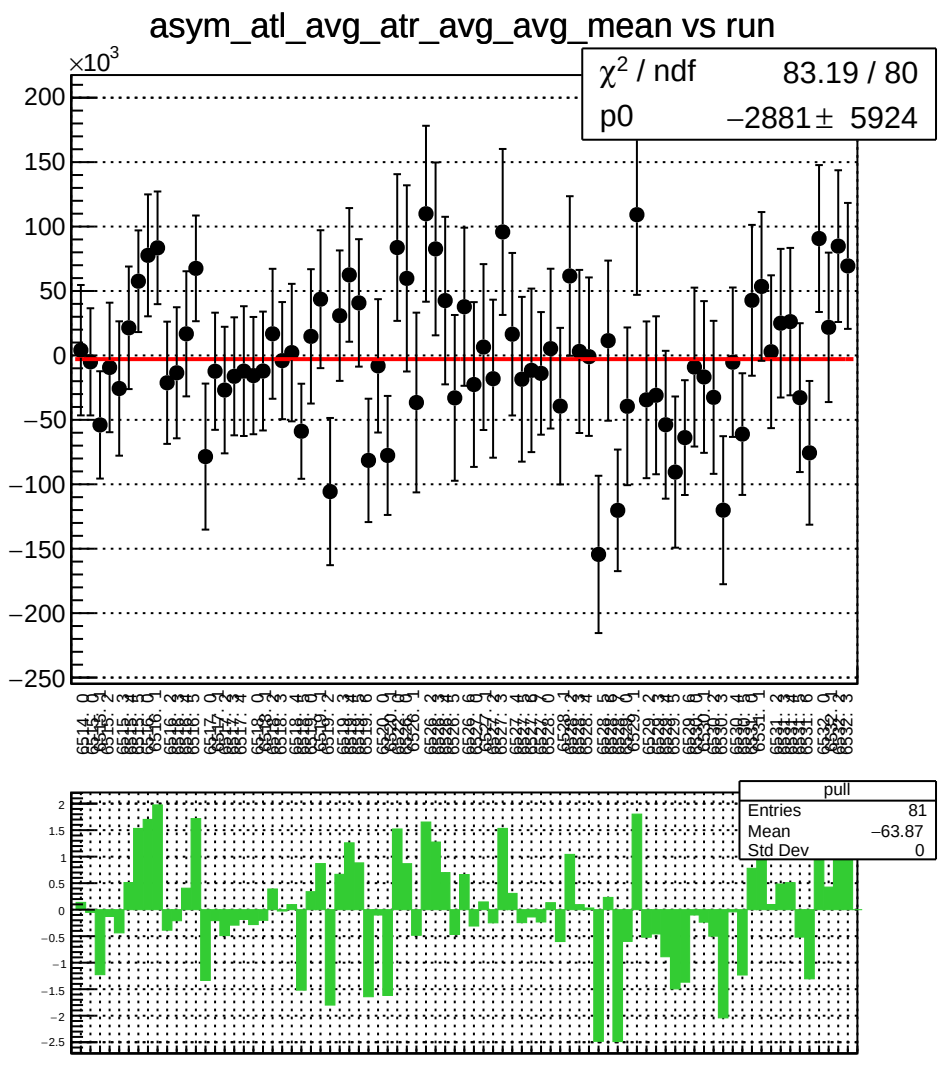

pull1D
Entries 81
Mean −0.008227
Std Dev 0.8832
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

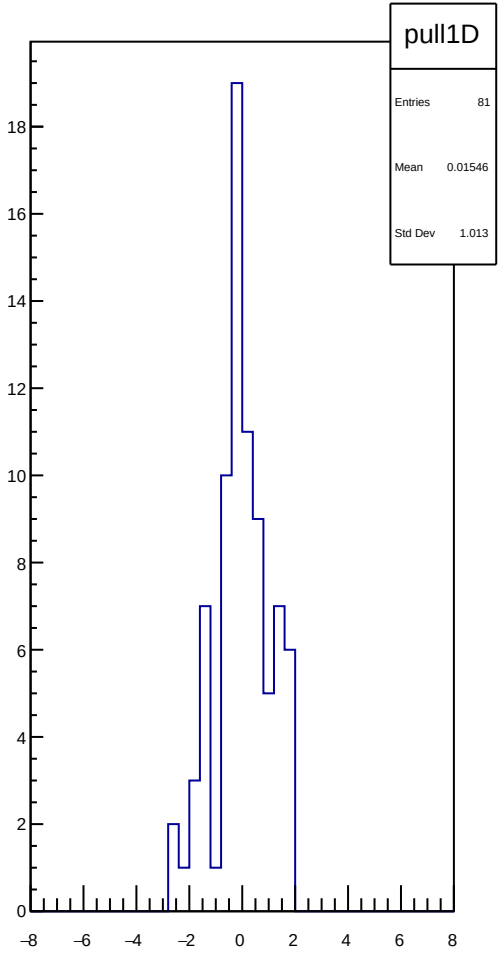

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 878.4 / 80
p0 1376 ± 1.102
1520
1500
1480
1460
1440
1420
1400
1380
1360
1340
1320

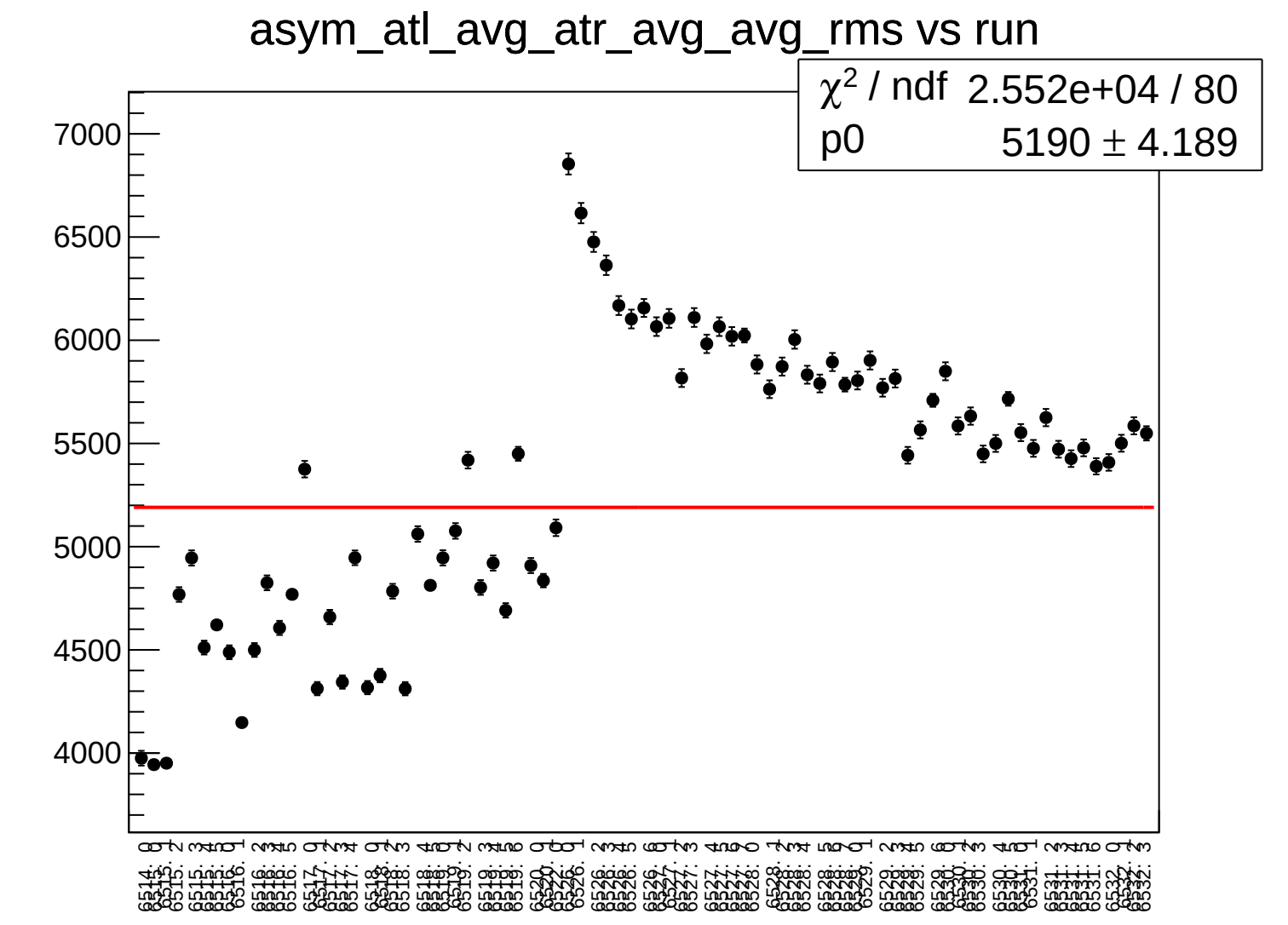

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 88.5 / 80
p0 4304 ± 5646
pull
Entries 81
Mean −242.8
Std Dev 0

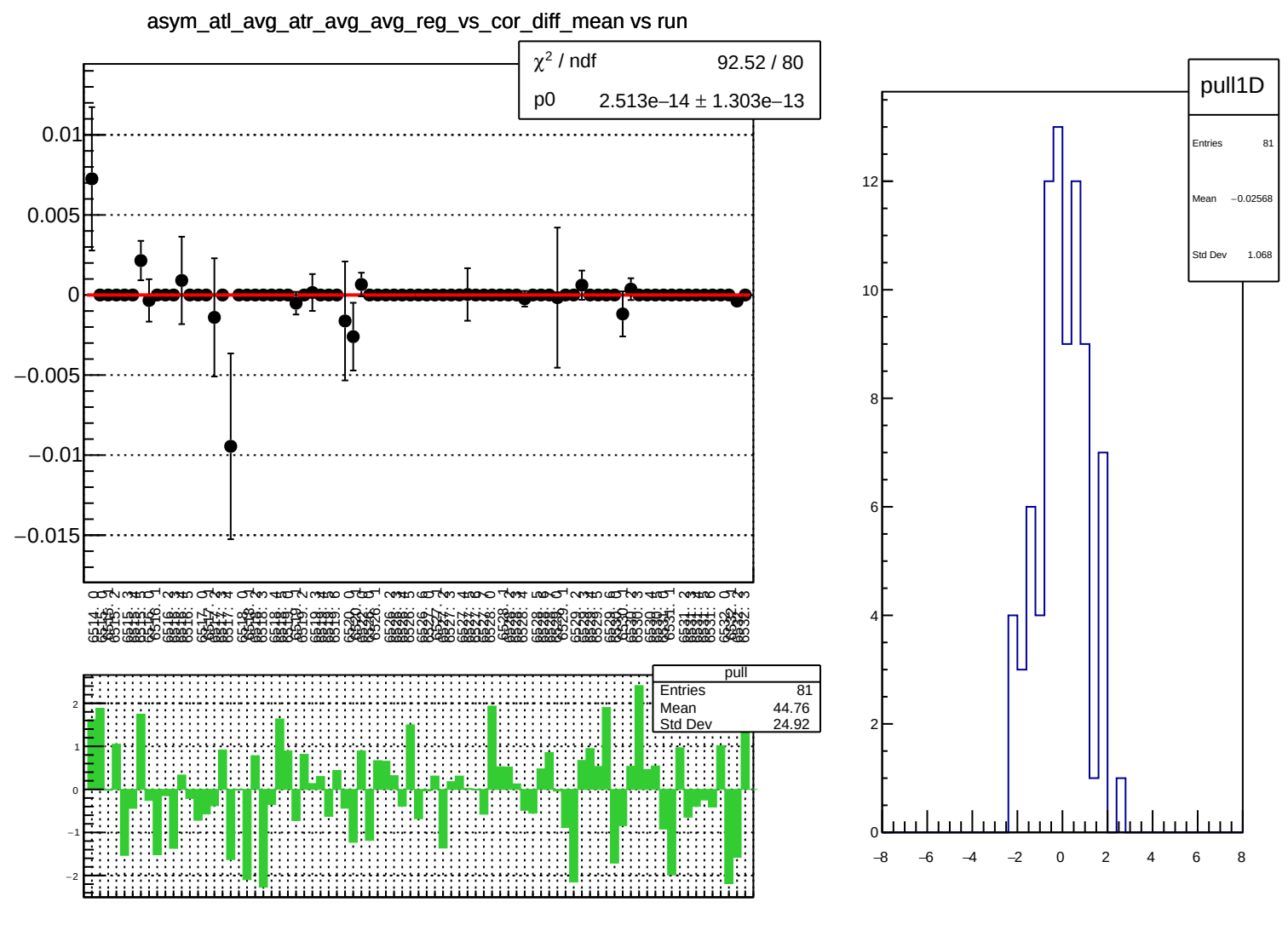

pull1D
Entries 81
Mean −0.008601
Std Dev 1.045

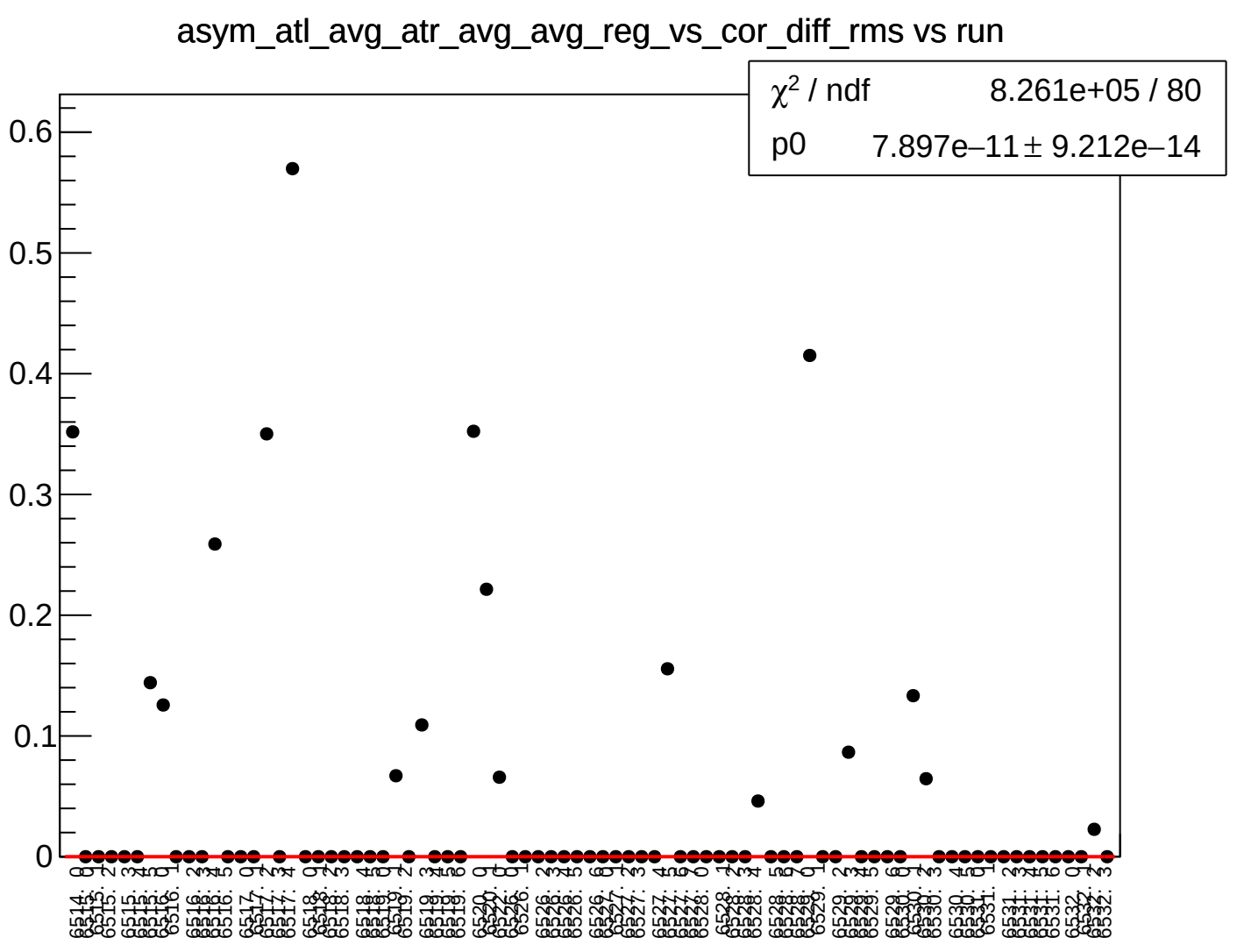

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.668e+04 / 80
p0 4929 ± 3.992
6500
6000
5500
5000
4500
4000
3500

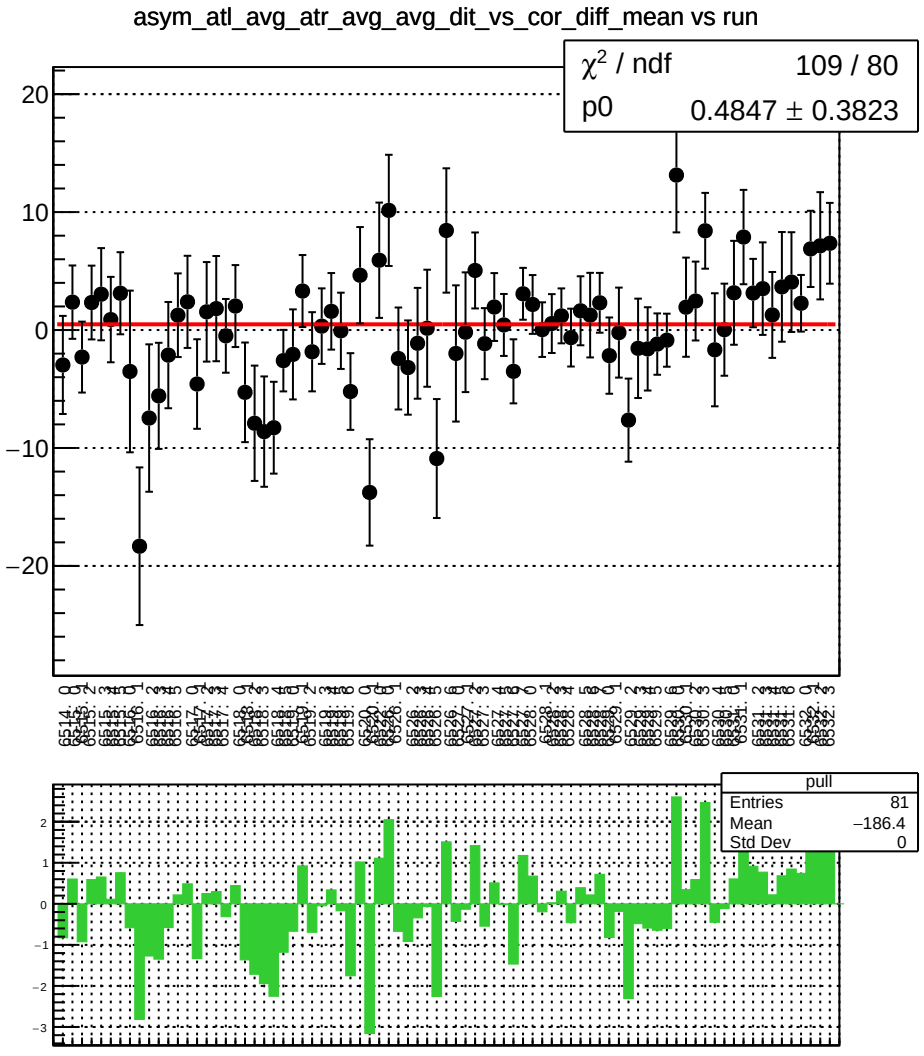

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 83.19 / 80
p0 −2881 ± 5924
pull
Entries 81
Mean −63.87
Std Dev 0

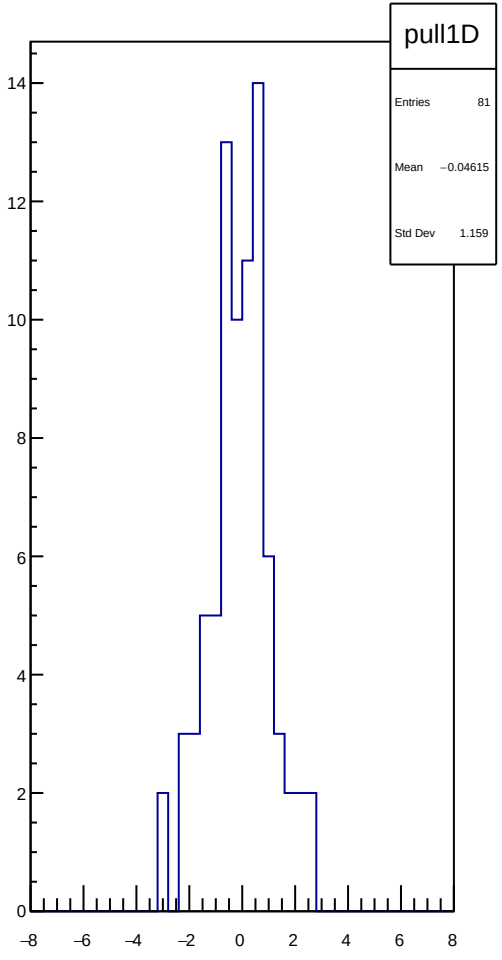

pull1D
Entries 81
Mean 0.01546
Std Dev 1.013

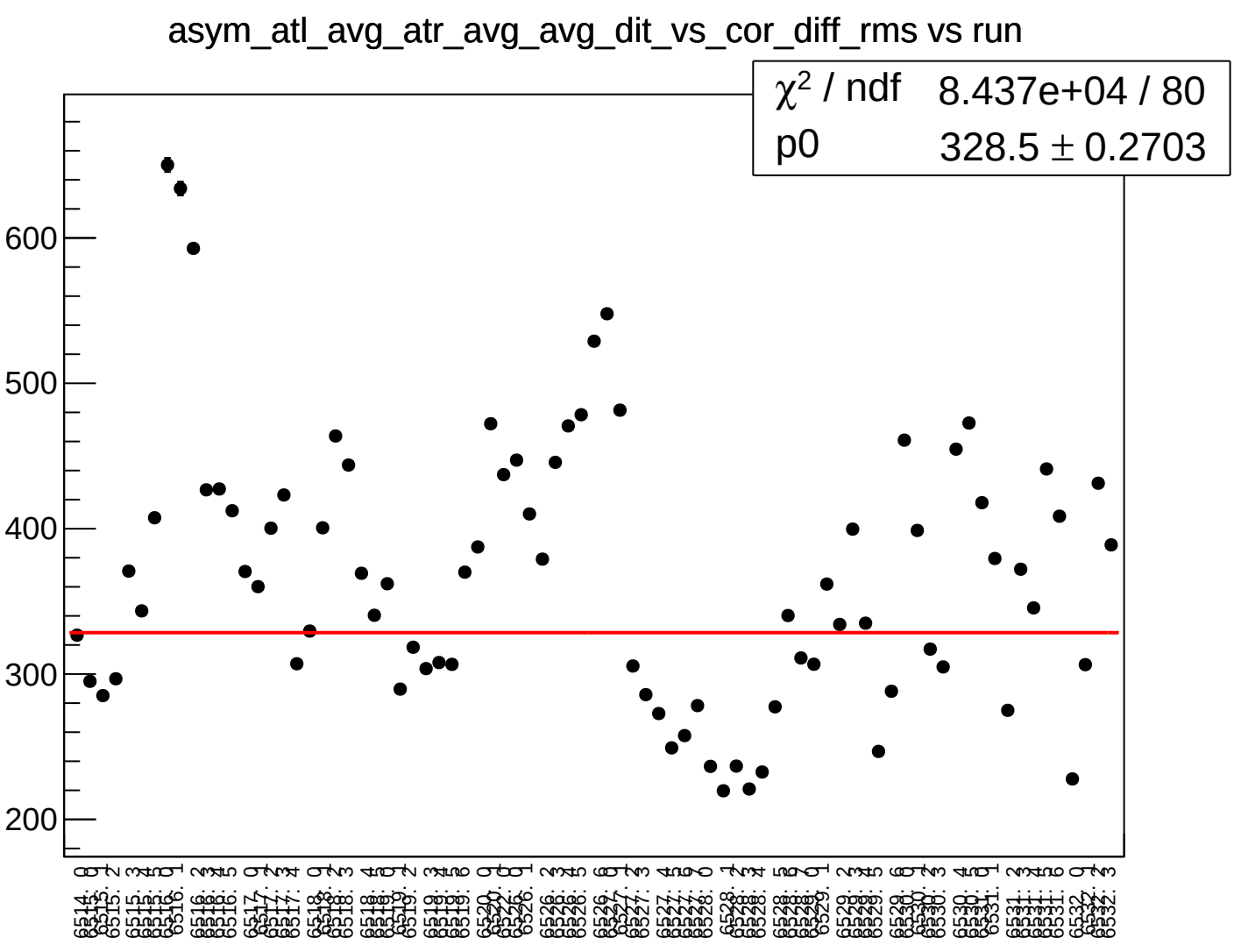

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 2.552e+04 / 80
p0 5190 ± 4.189
7000
6500
6000
5500
5000
4500
4000

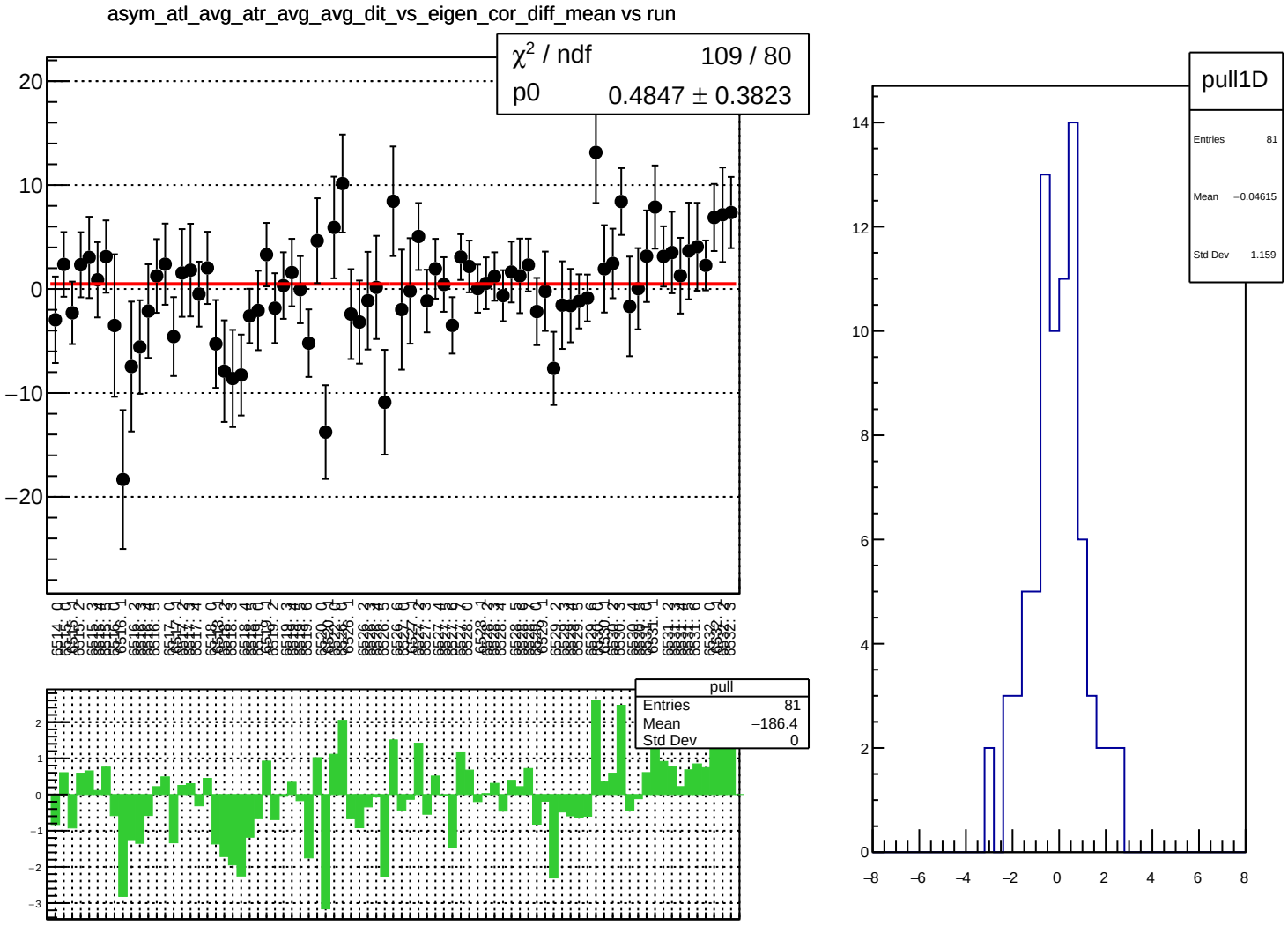

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 92.52 / 80
p0 2.513e−14 ± 1.303e−13
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 81
Mean 44.76
Std Dev 24.92
2
1
0
−1
−2
pull1D
Entries 81
Mean −0.02568
Std Dev 1.068
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

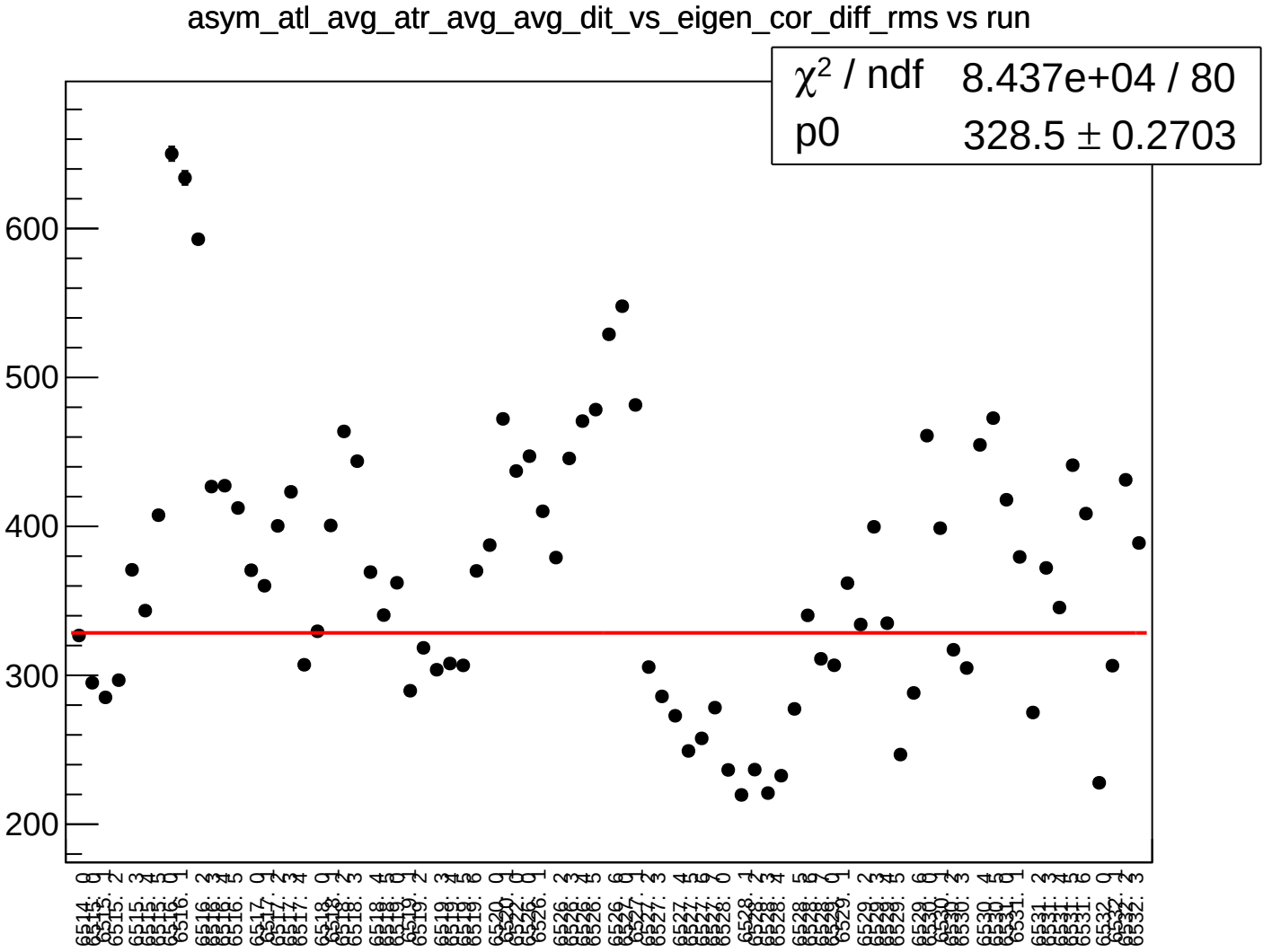

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.261e+05 / 80
p0 7.897e−11 ± 9.212e−14
0.6
0.5
0.4
0.3
0.2
0.1
0

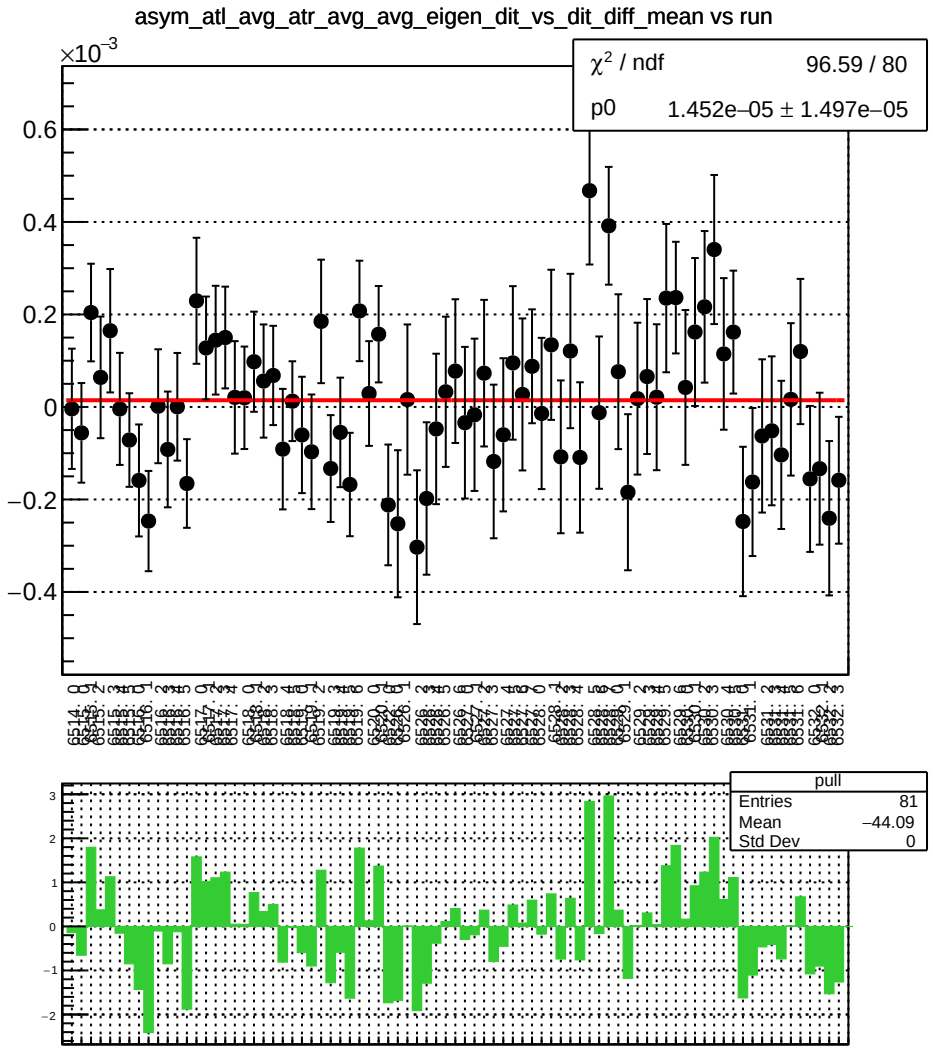

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 109 / 80
p0 0.4847 ± 0.3823
pull
Entries 81
Mean −186.4
Std Dev 0

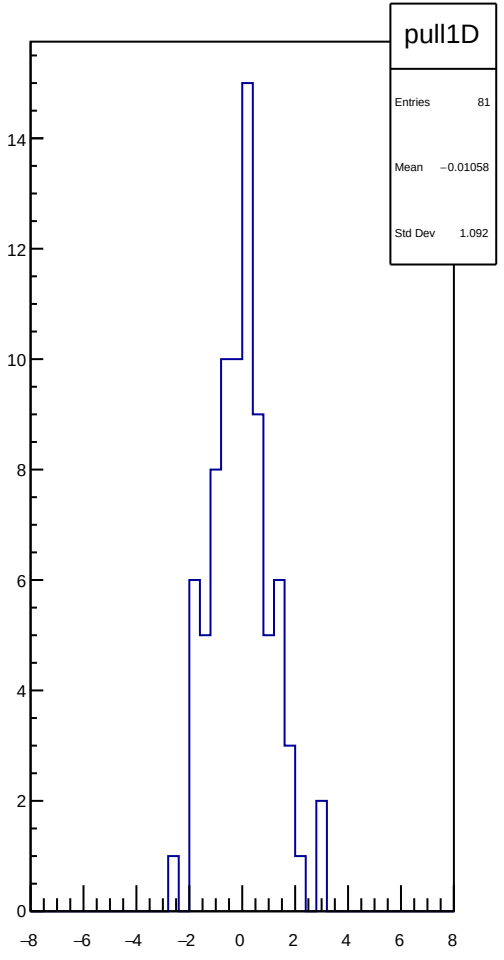

pull1D
Entries 81
Mean −0.04615
Std Dev 1.159

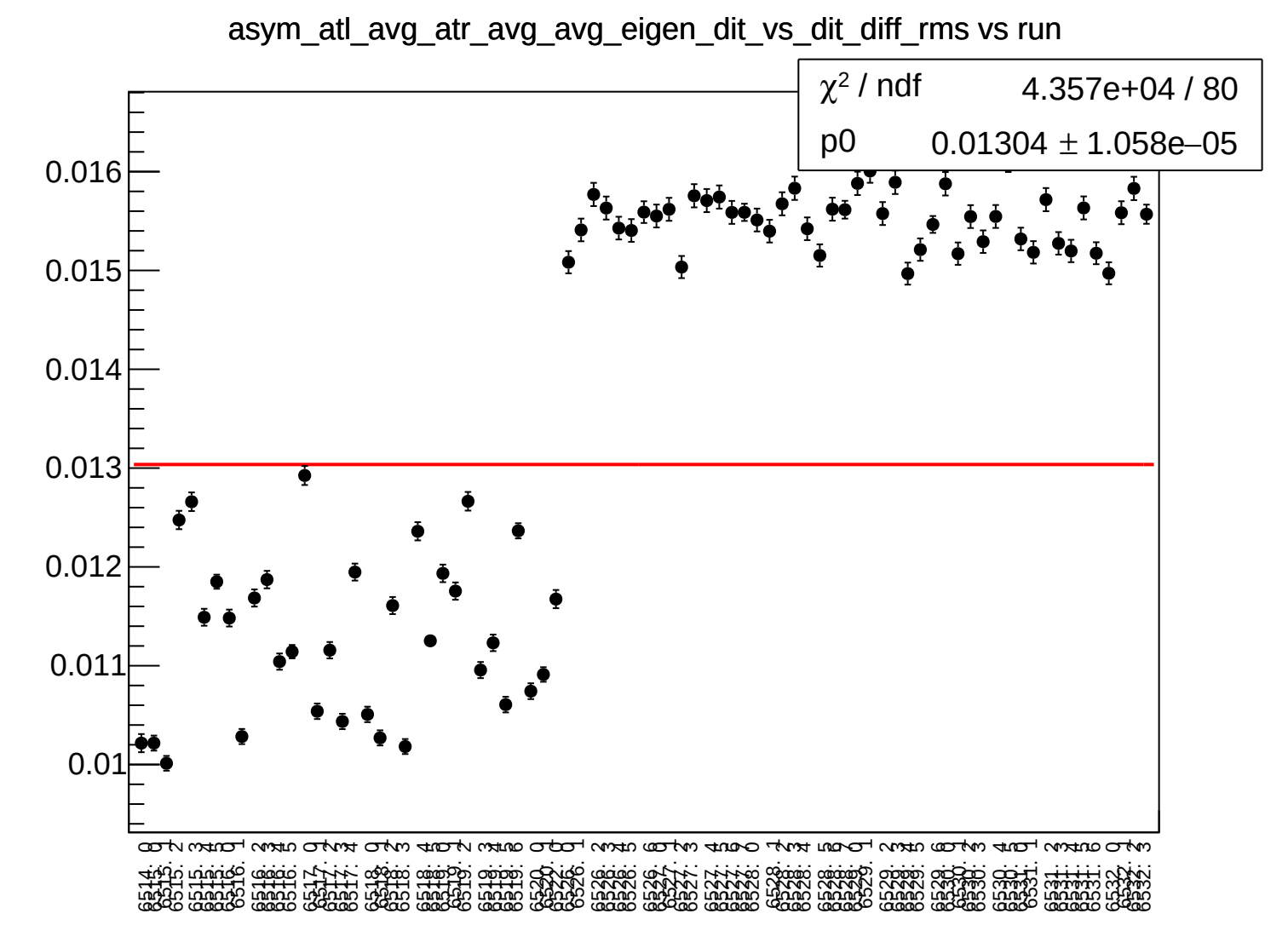

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.437e+04 / 80
p0 328.5 ± 0.2703
600
500
400
300
200

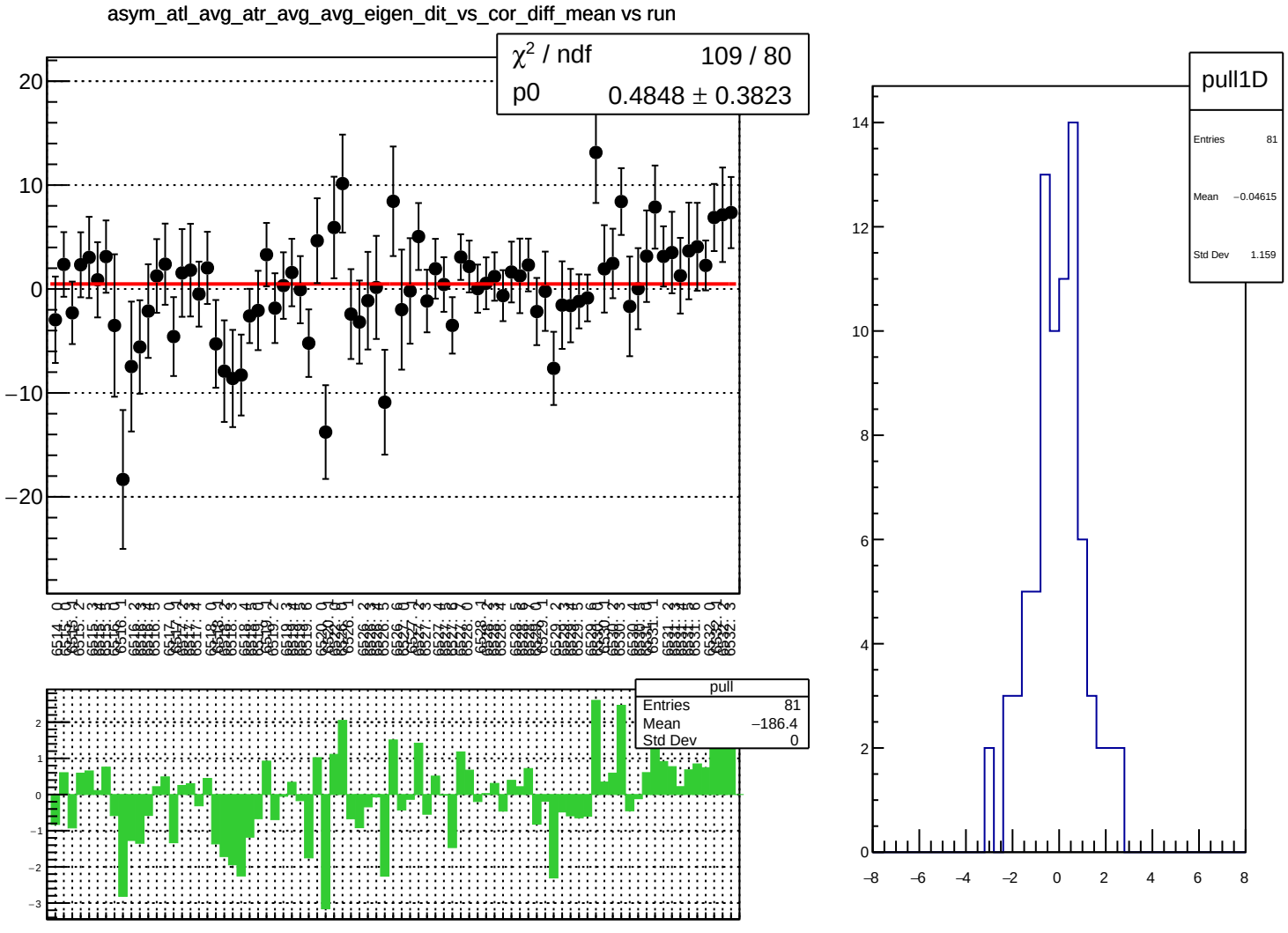

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109 / 80
p0 0.4847 ± 0.3823
pull
Entries 81
Mean −186.4
Std Dev 0
pull1D
Entries 81
Mean −0.04615
Std Dev 1.159

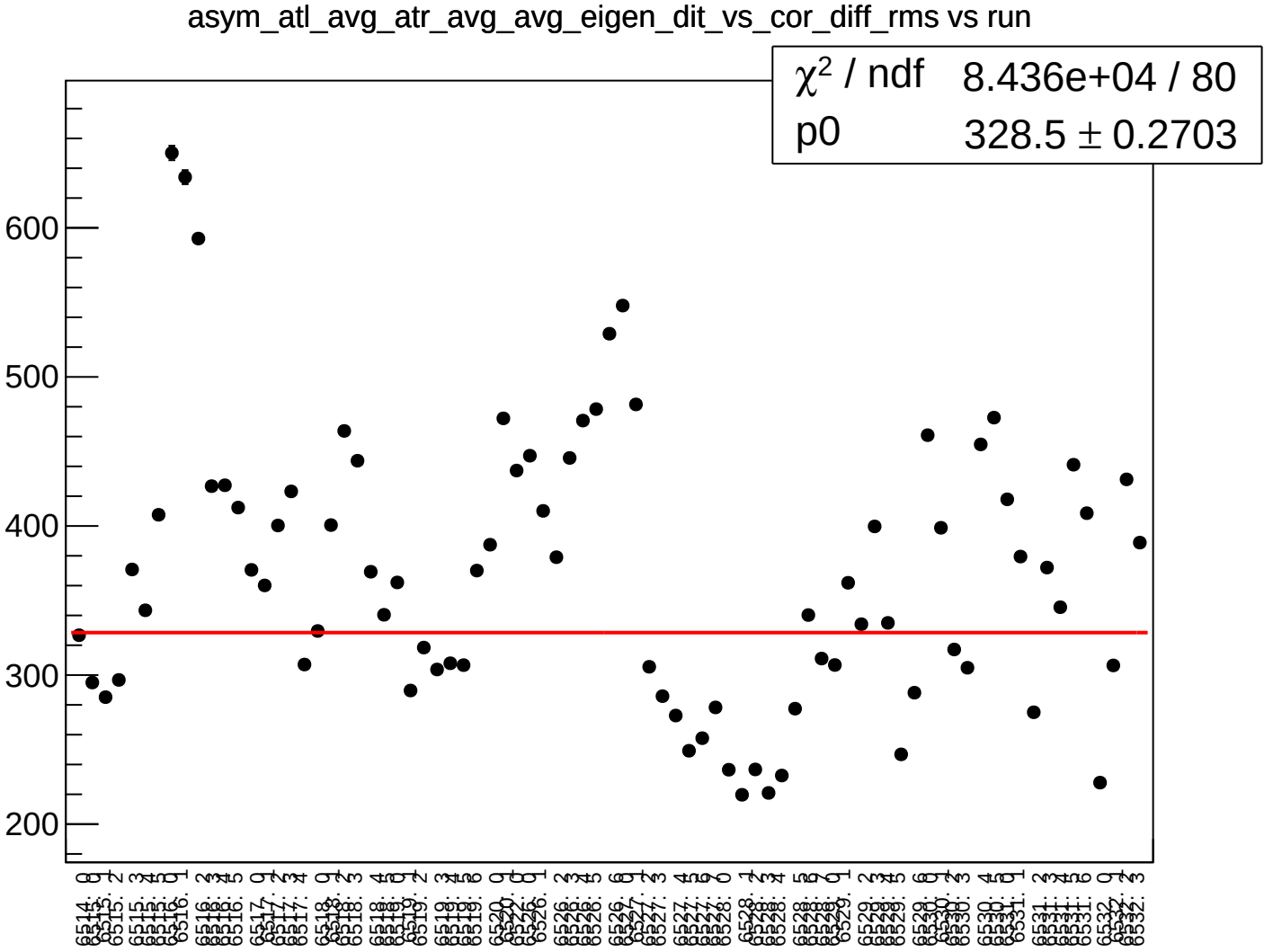

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.437e+04 / 80
p0 328.5 ± 0.2703
600
500
400
300
200

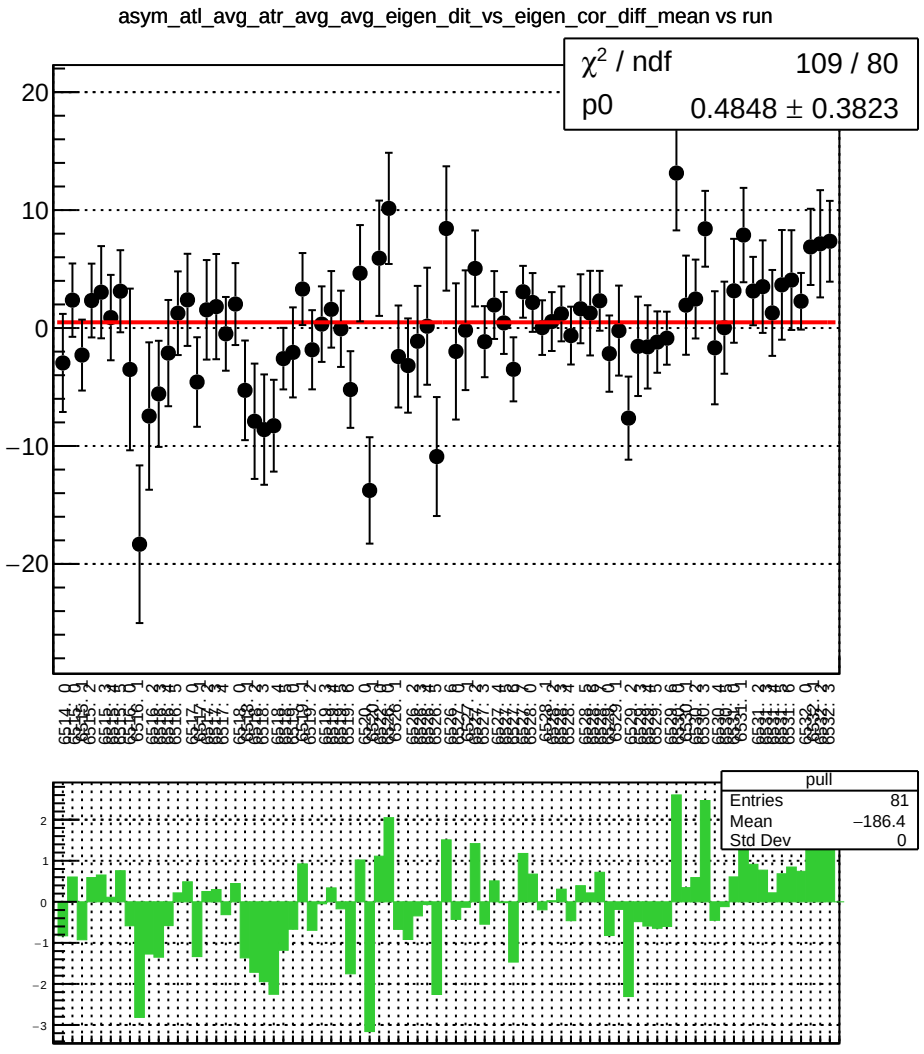

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.59 / 80
p0 1.452e−05 ± 1.497e−05
pull
Entries 81
Mean −44.09
Std Dev 0

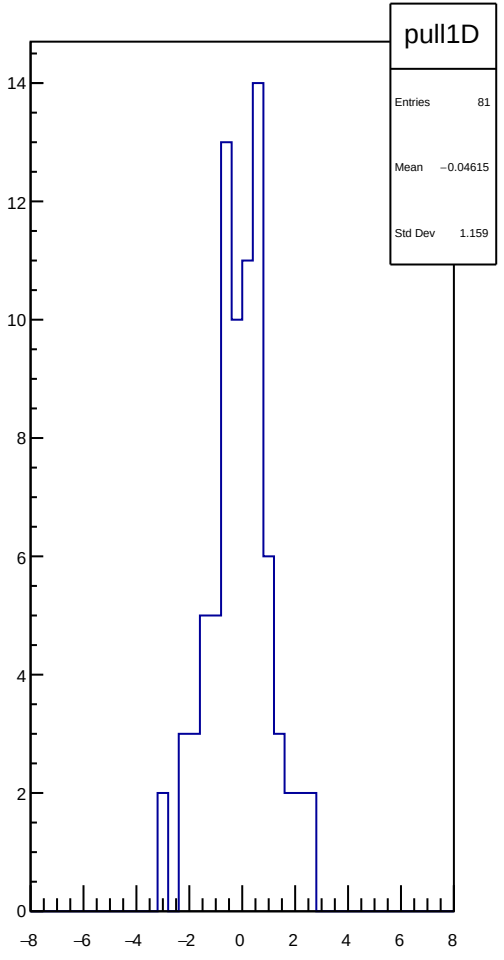

pull1D
Entries 81
Mean −0.01058
Std Dev 1.092

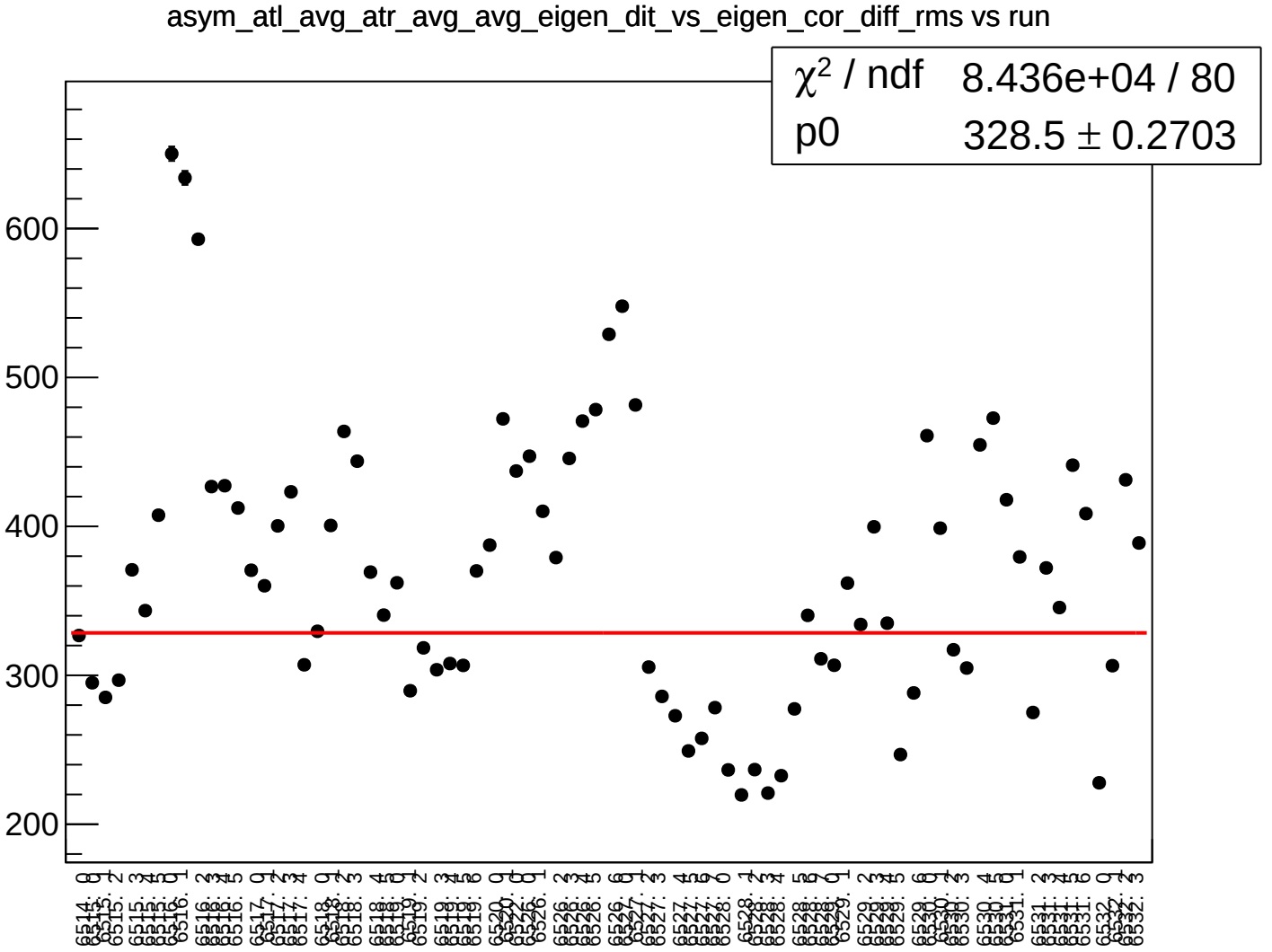

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.357e+04 / 80
p0 0.01304 ± 1.058e−05
0.016
0.015
0.014
0.013
0.012
0.011
0.01

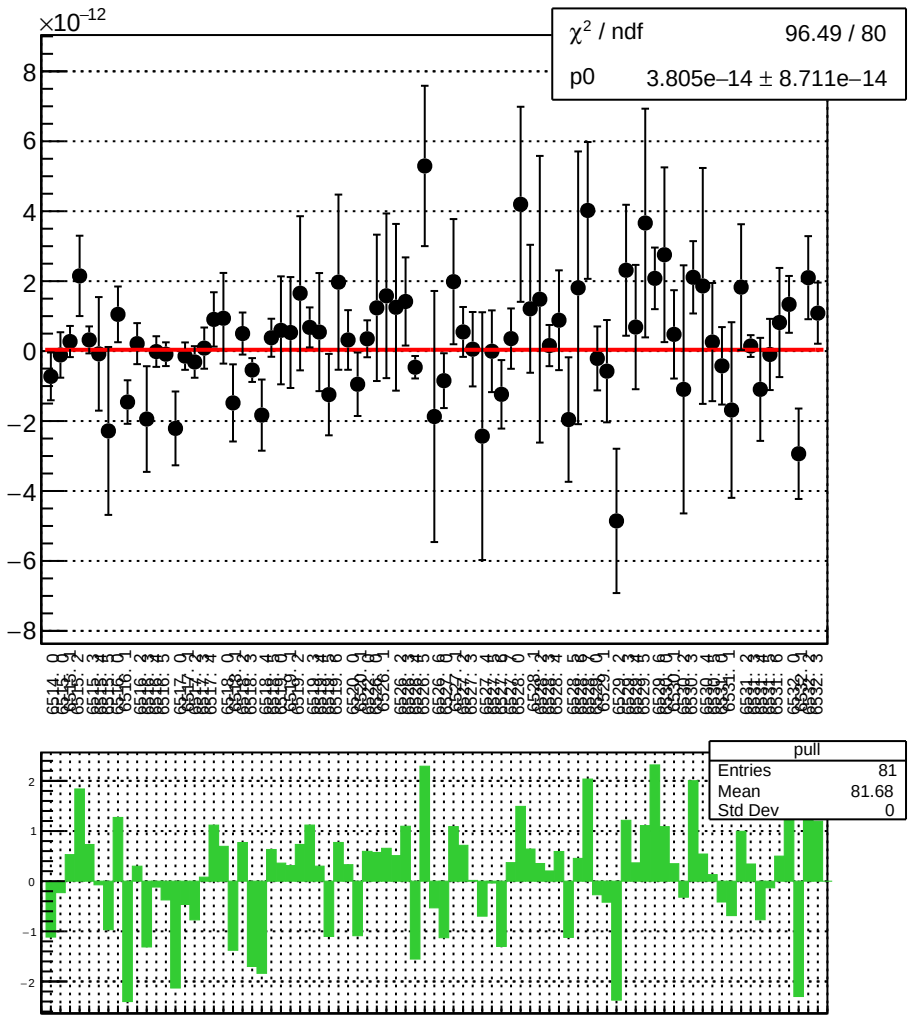

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 109 / 80
p0 0.4848 ± 0.3823
pull
Entries 81
Mean −186.4
Std Dev 0
pull1D
Entries 81
Mean −0.04615
Std Dev 1.159

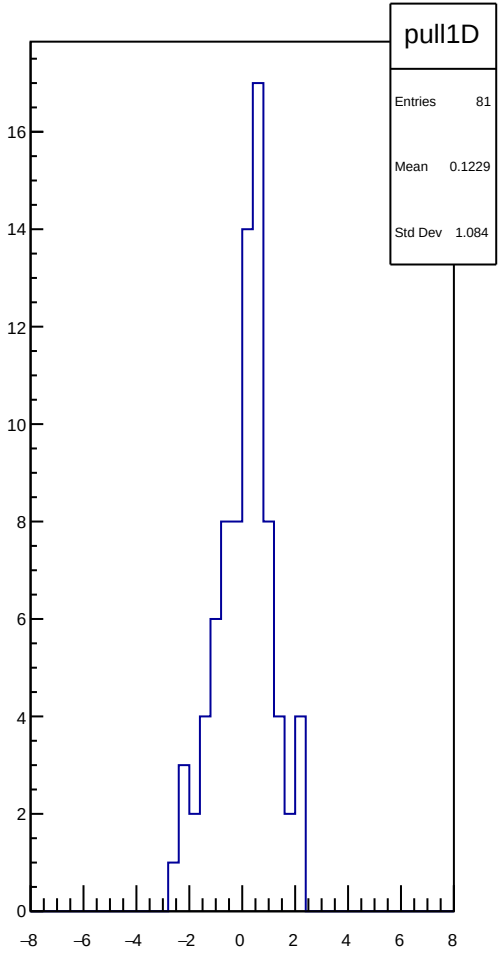

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.436e+04 / 80
p0 328.5 ± 0.2703
600
500
400
300
200

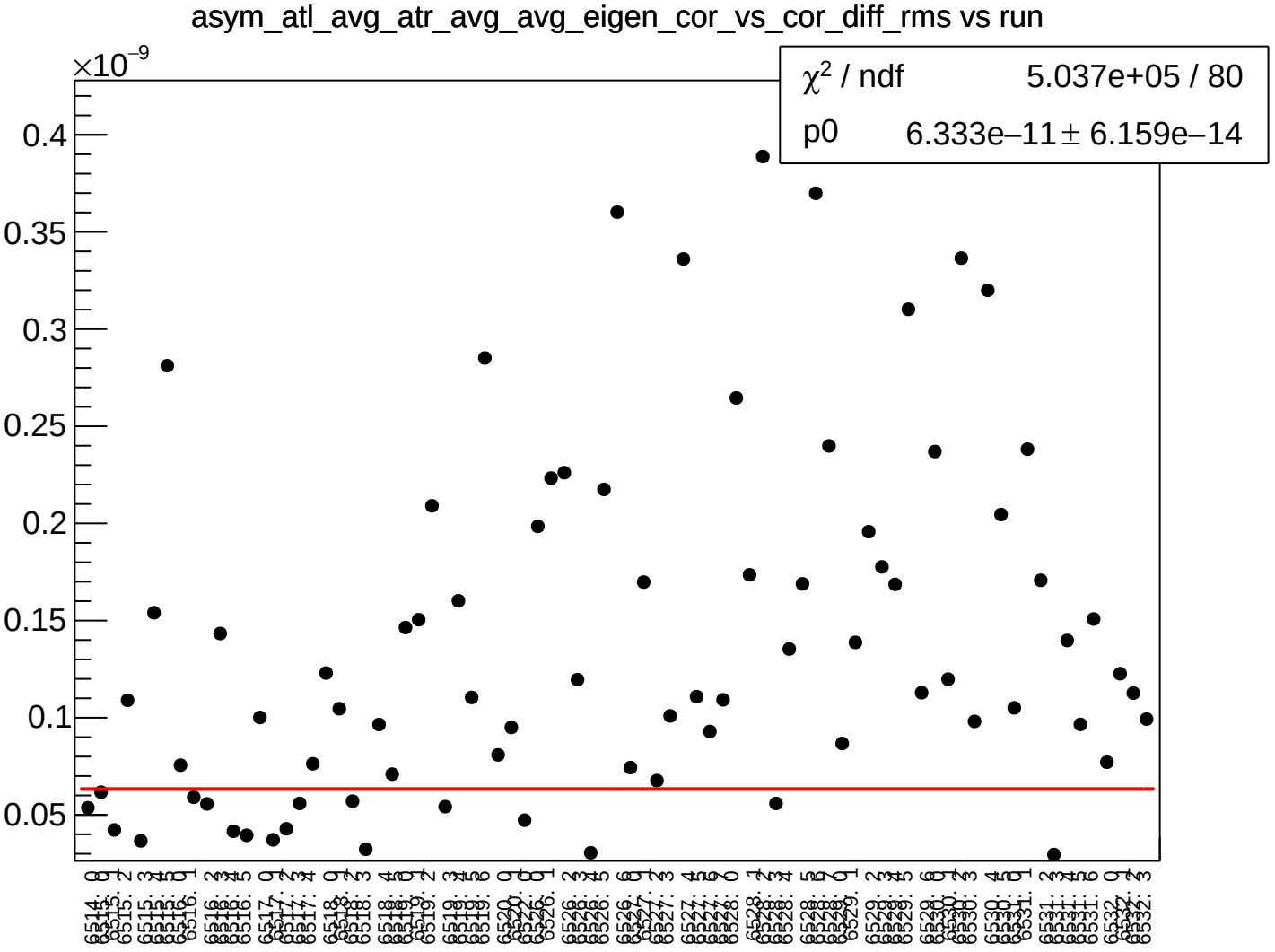

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109 / 80
p0 0.4848 ± 0.3823
pull
Entries 81
Mean −186.4
Std Dev 0

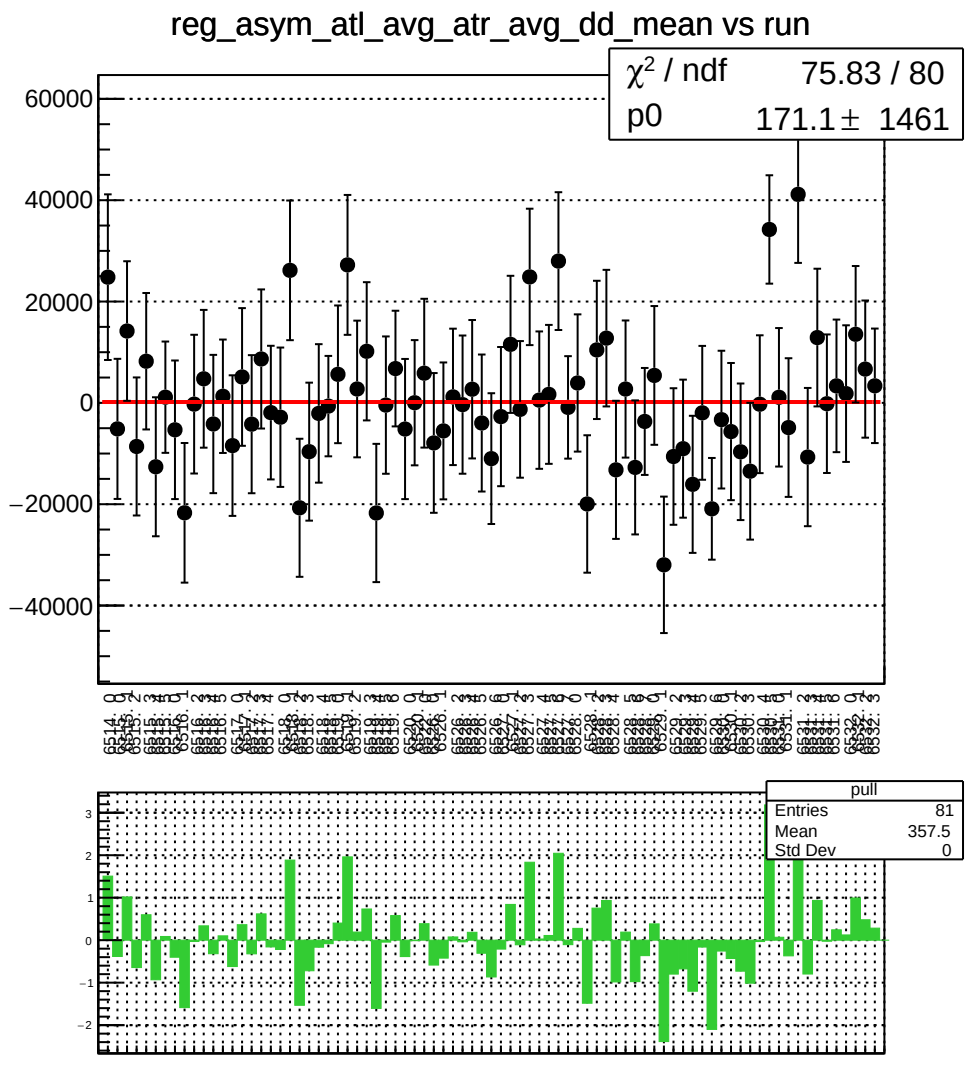

pull1D
Entries 81
Mean −0.04615
Std Dev 1.159

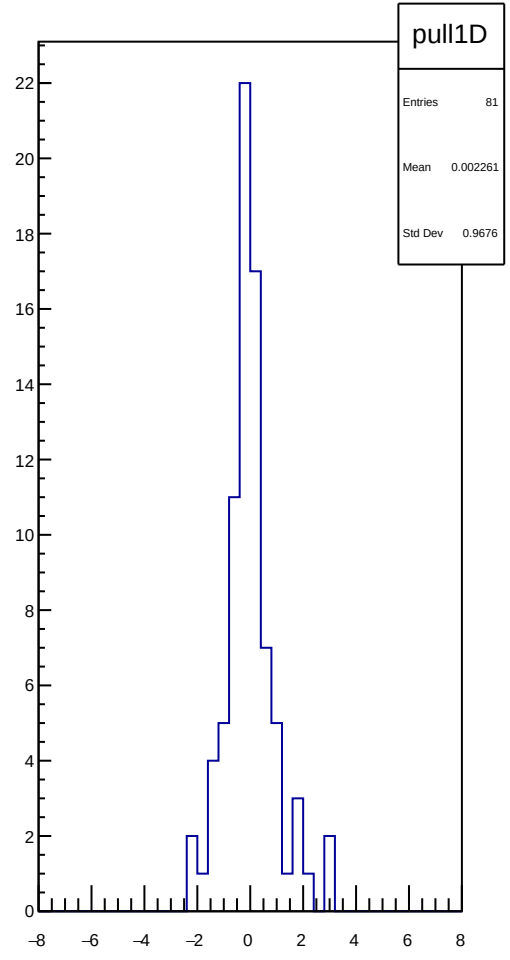

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.436e+04 / 80
p0 328.5 ± 0.2703
600
500
400
300
200

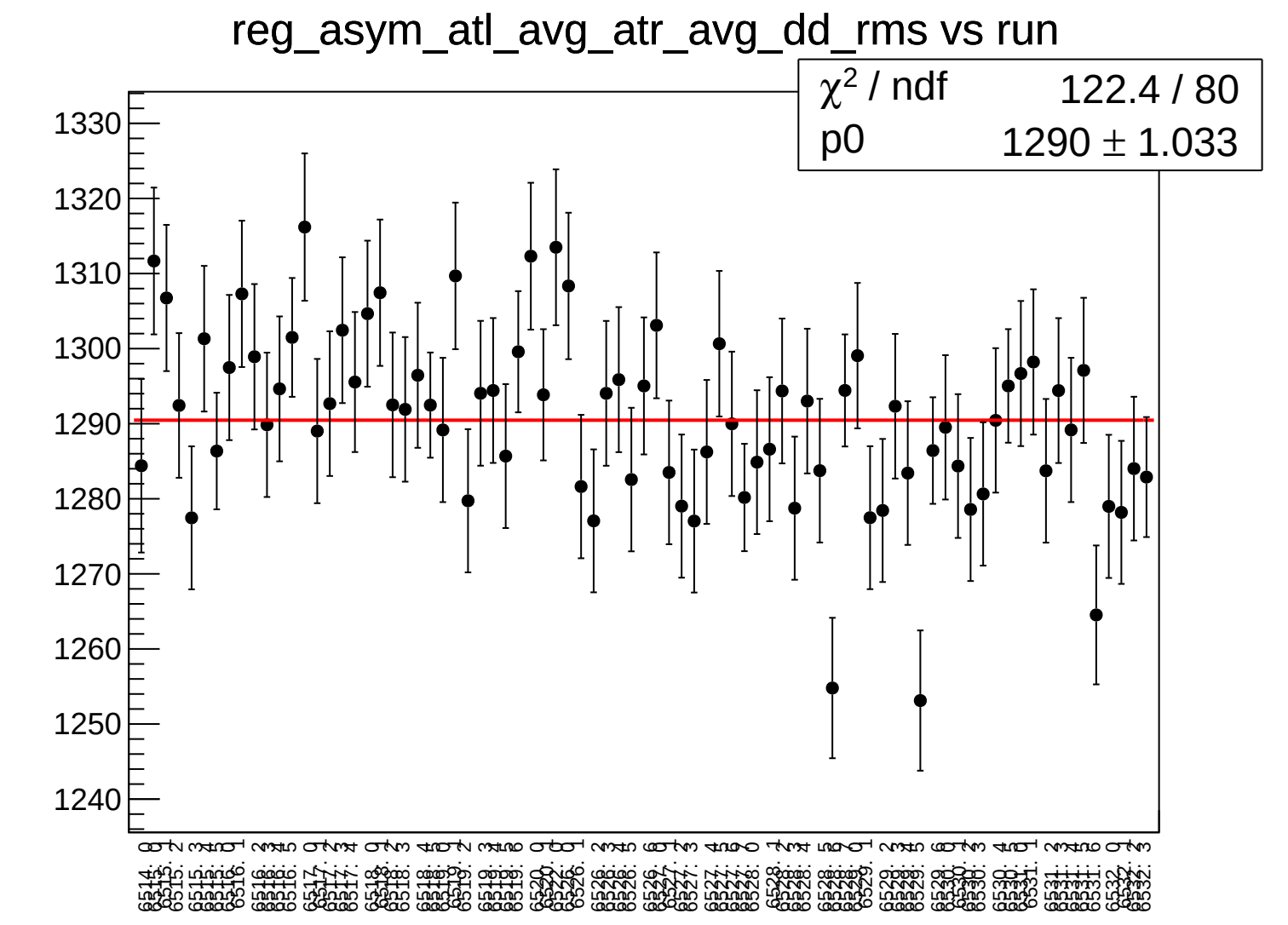

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.49 / 80
p0 3.805e−14 ± 8.711e−14
pull
Entries 81
Mean 81.68
Std Dev 0

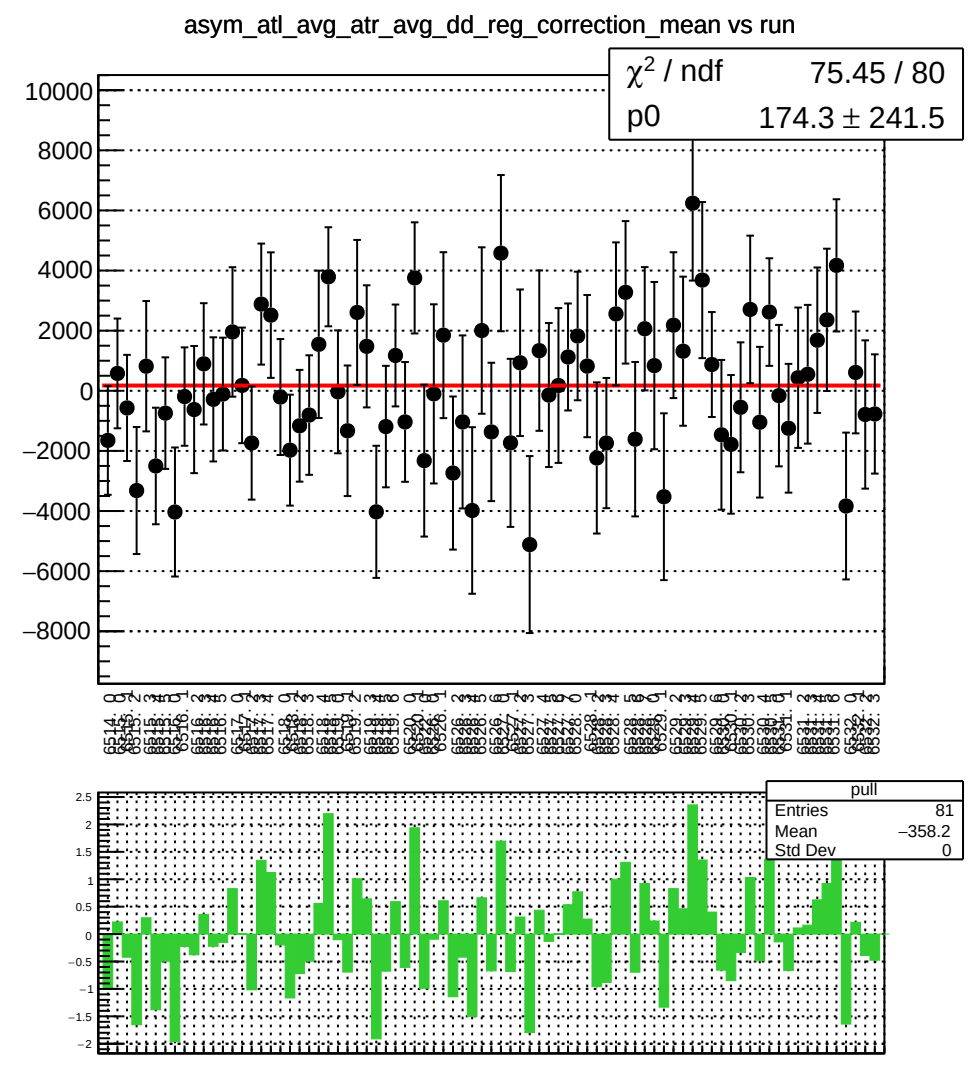

pull1D
Entries 81
Mean 0.1229
Std Dev 1.084

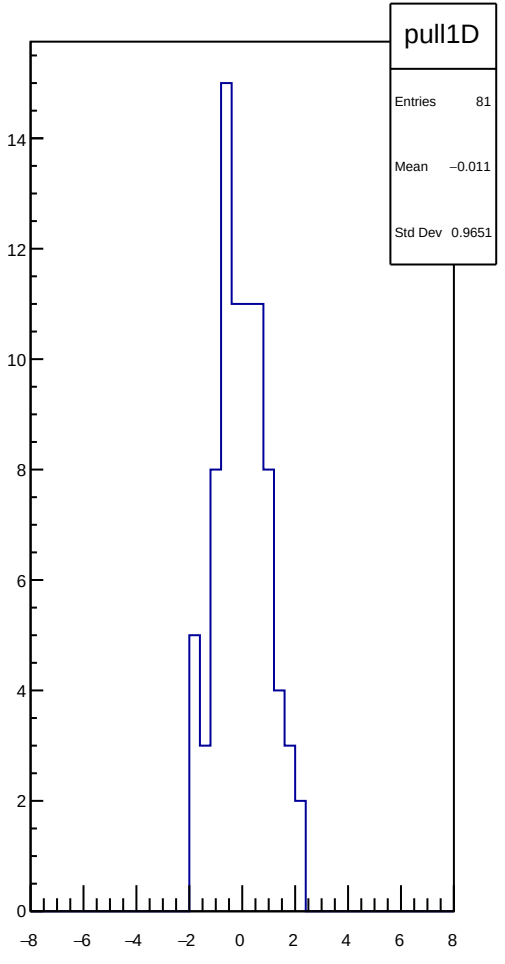

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.037e+05 / 80
p0 6.333e−11 ± 6.159e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

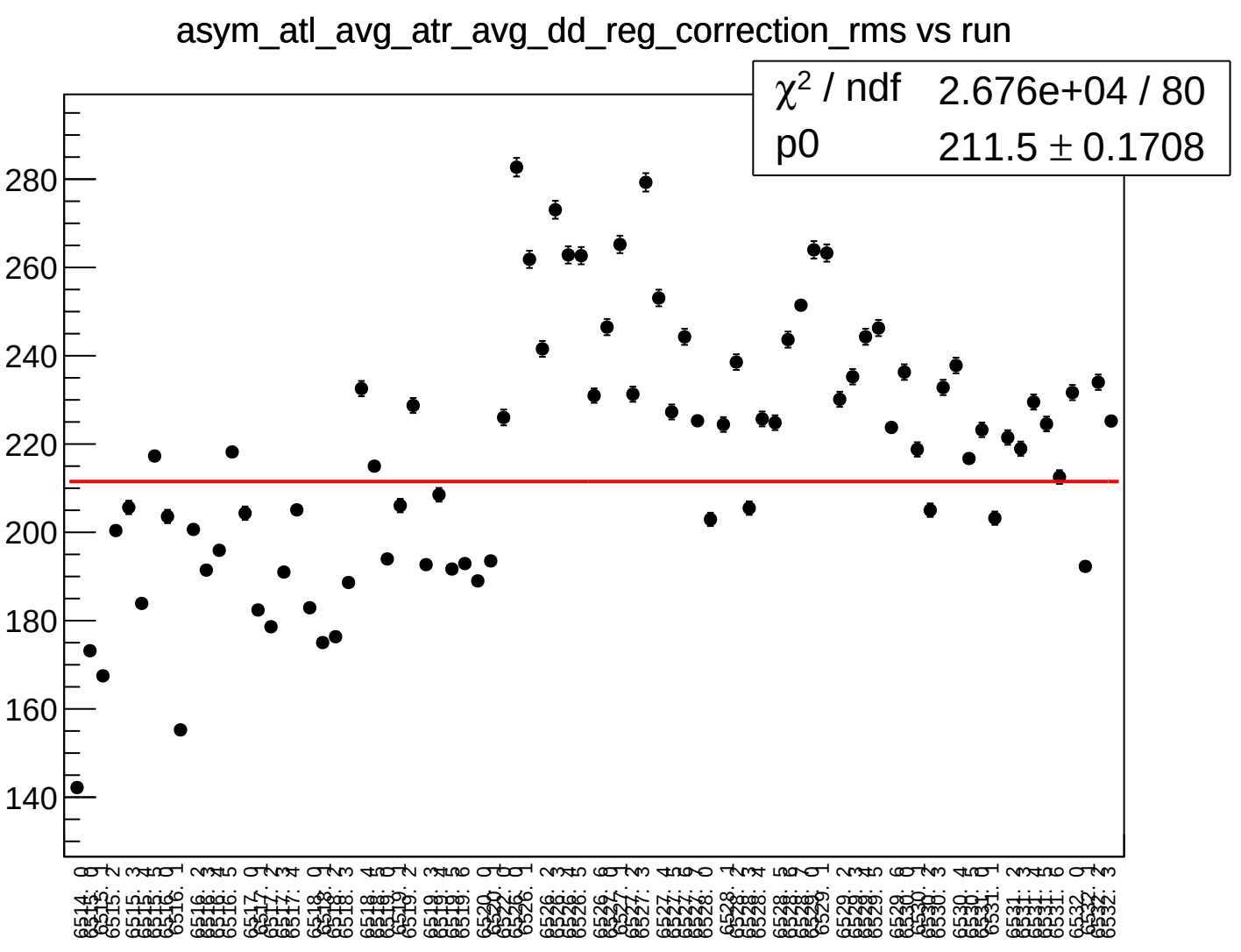

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 75.83 / 80
p0 171.1 ± 1461
pull
Entries 81
Mean 357.5
Std Dev 0

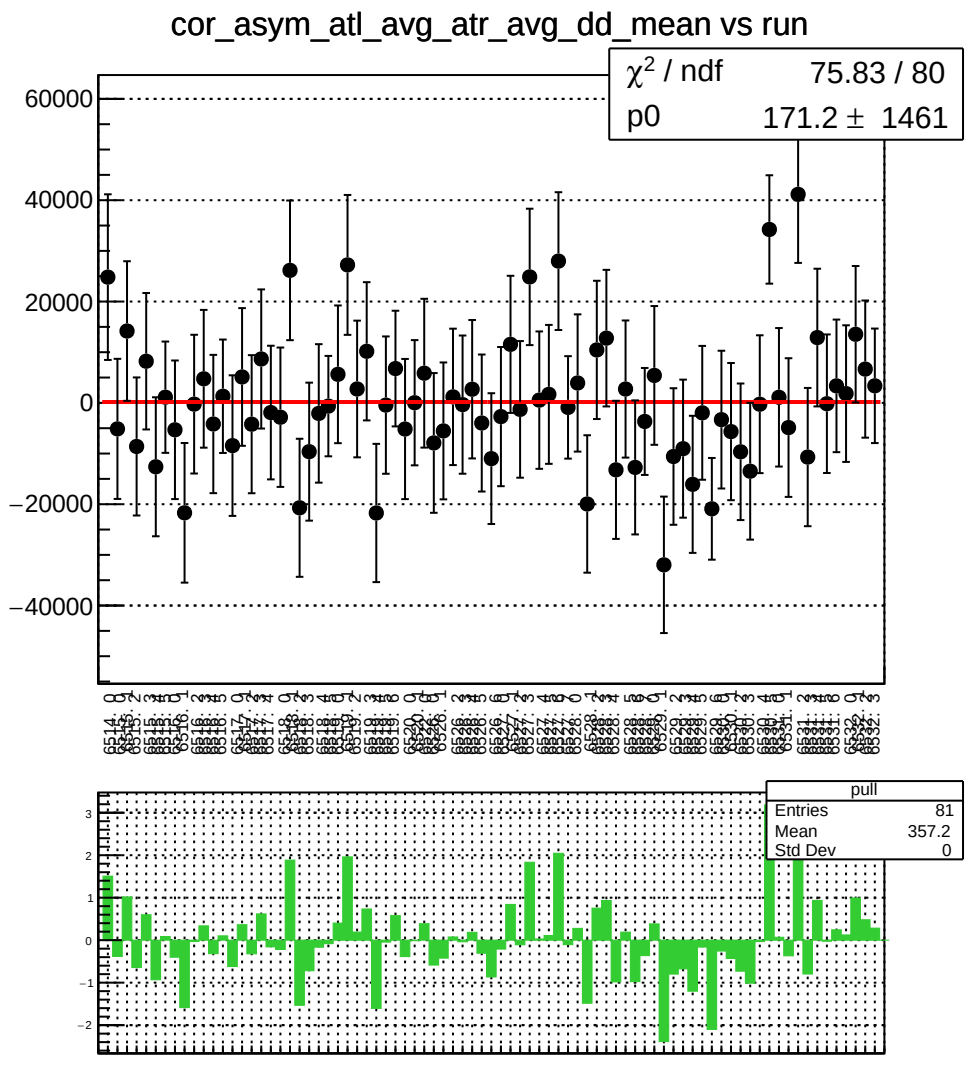

pull1D
Entries 81
Mean 0.002261
Std Dev 0.9676

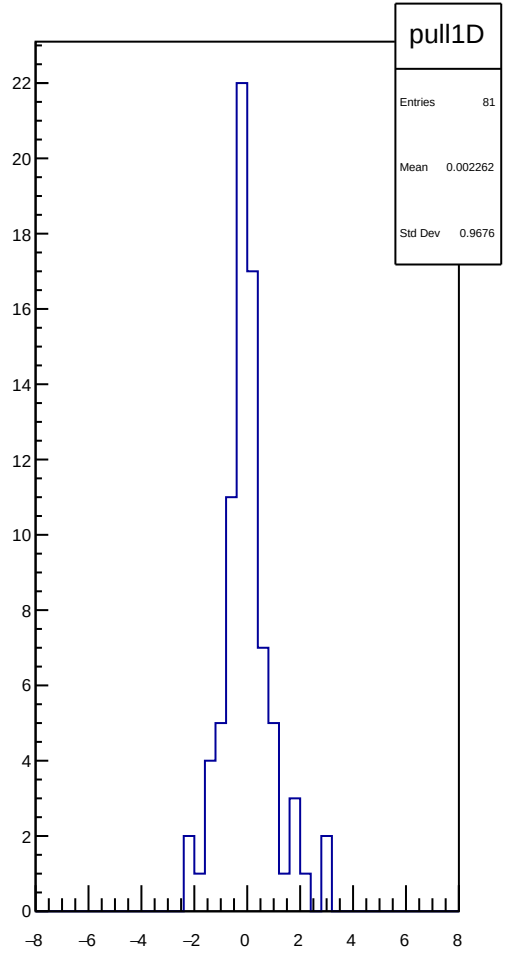

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 122.4 / 80
p0 1290 ± 1.033
1330
1320
1310
1300
1290
1280
1270
1260
1250
1240

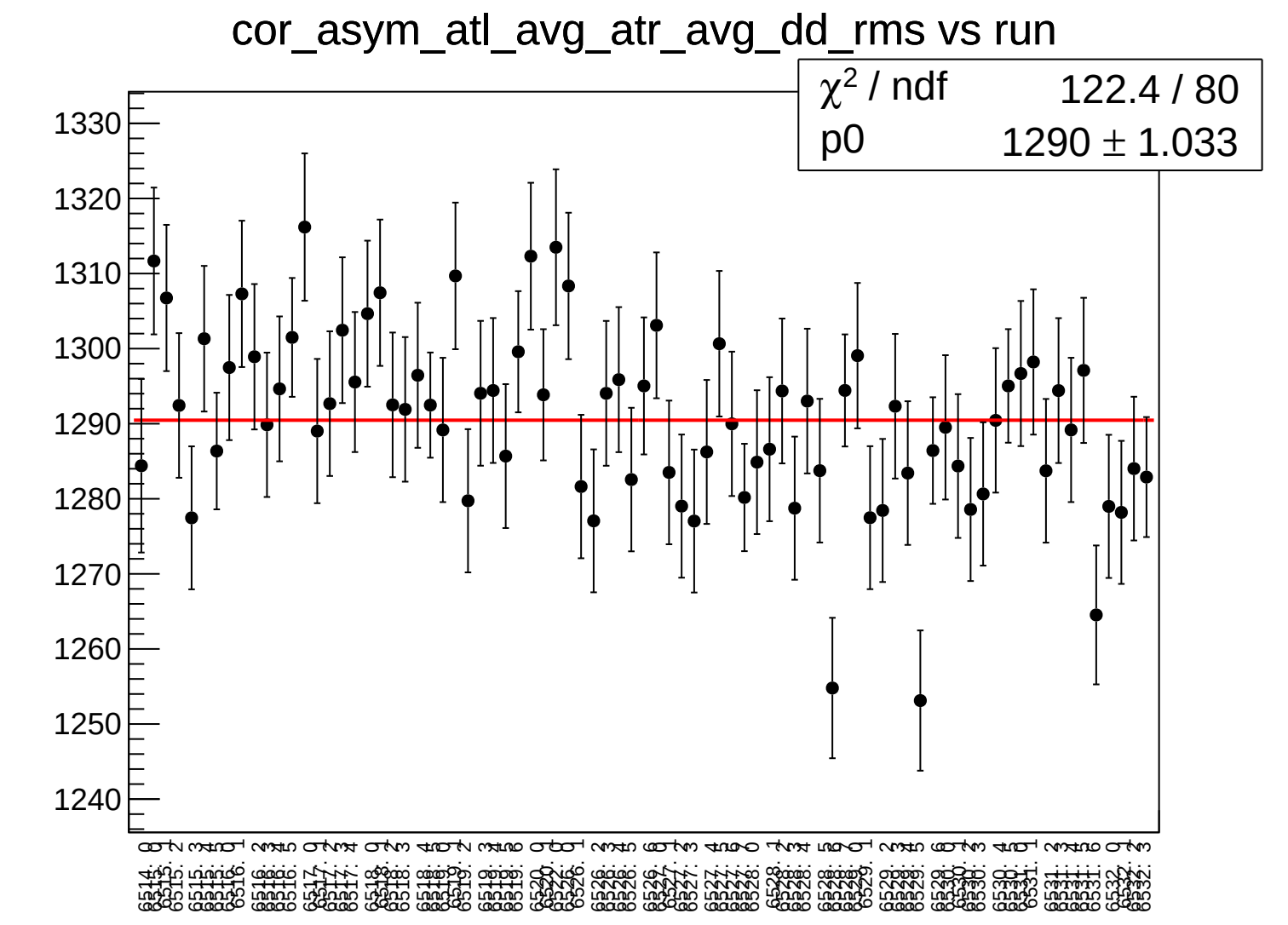

asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 75.45 / 80
p0 174.3 ± 241.5
pull
Entries 81
Mean −358.2
Std Dev 0

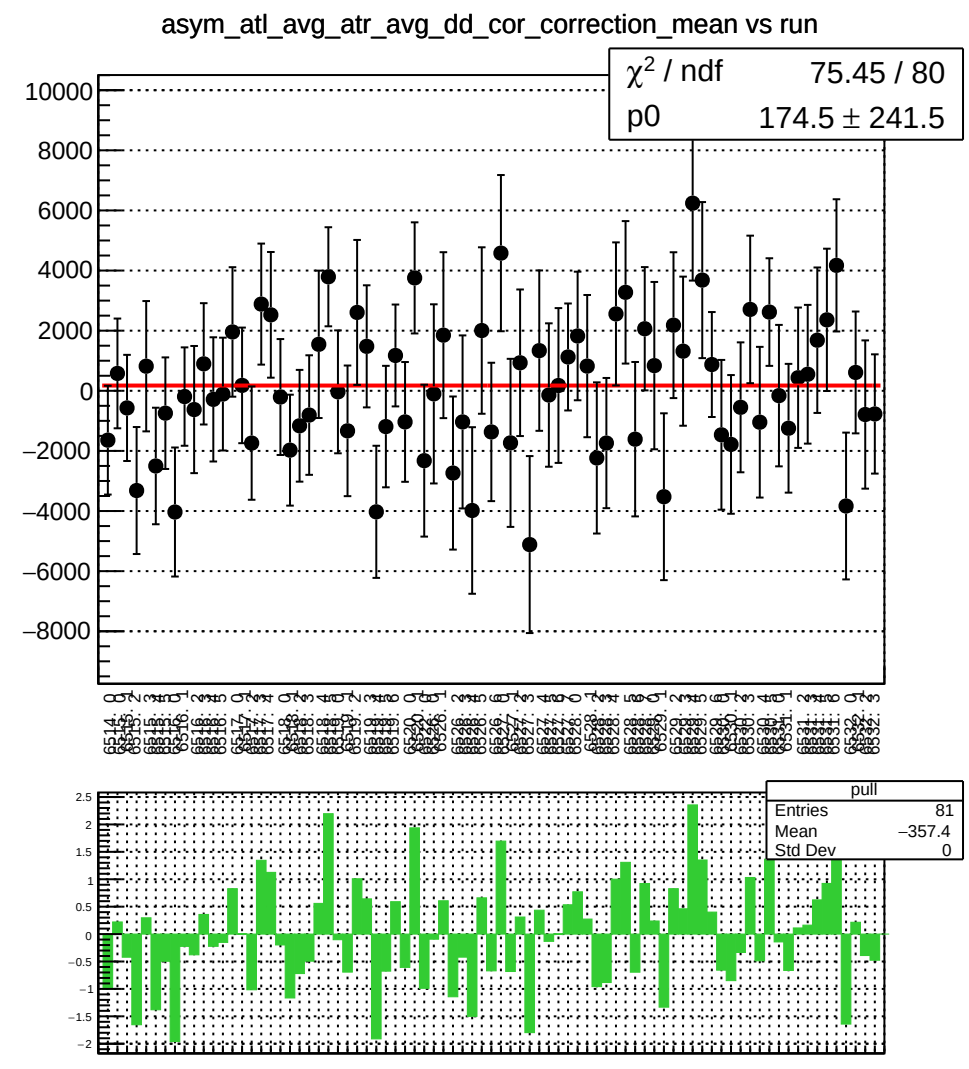

pull1D
Entries 81
Mean −0.011
Std Dev 0.9651

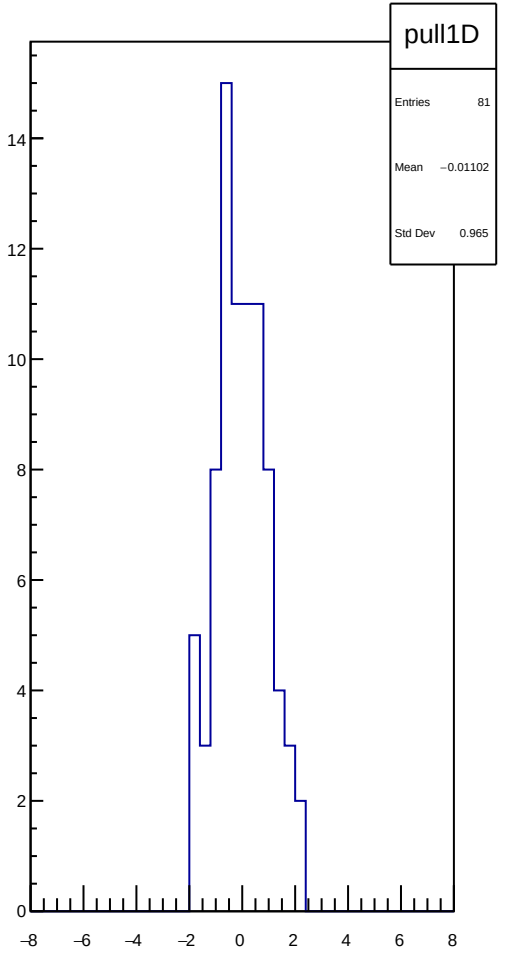

asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 2.676e+04 / 80
p0 211.5 ± 0.1708
280
260
240
220
200
180
160
140

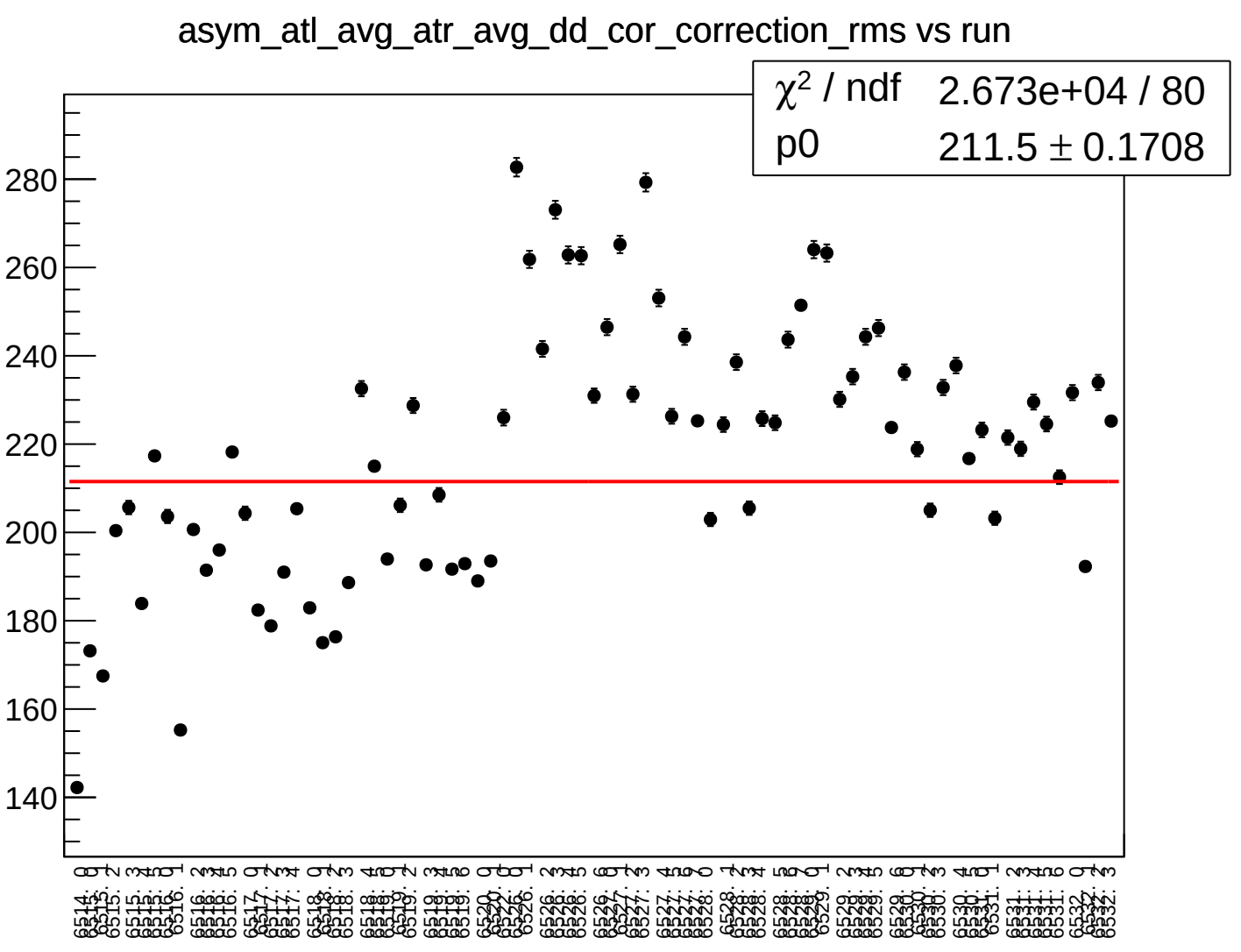

cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 75.83 / 80
p0 171.2 ± 1461
60000
40000
20000
0
−20000
−40000
pull
Entries 81
Mean 357.2
Std Dev 0
3
2
1
0
−1
−2

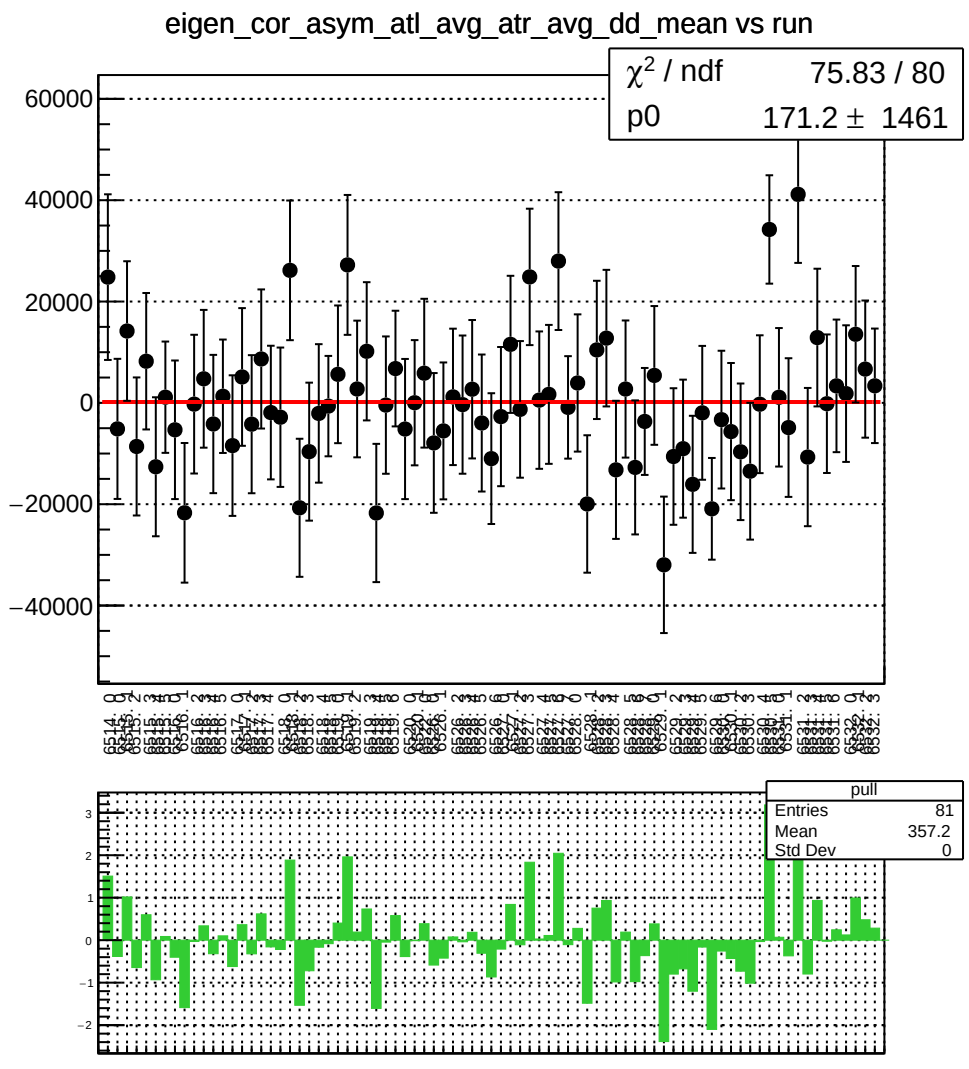

pull1D
Entries 81
Mean 0.002262
Std Dev 0.9676
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

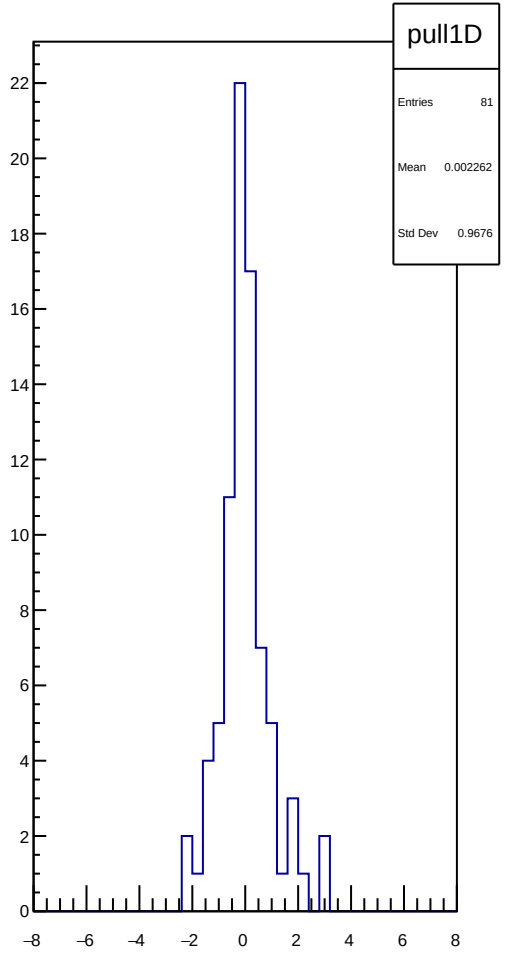

cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 122.4 / 80
p0 1290 ± 1.033
1330
1320
1310
1300
1290
1280
1270
1260
1250
1240

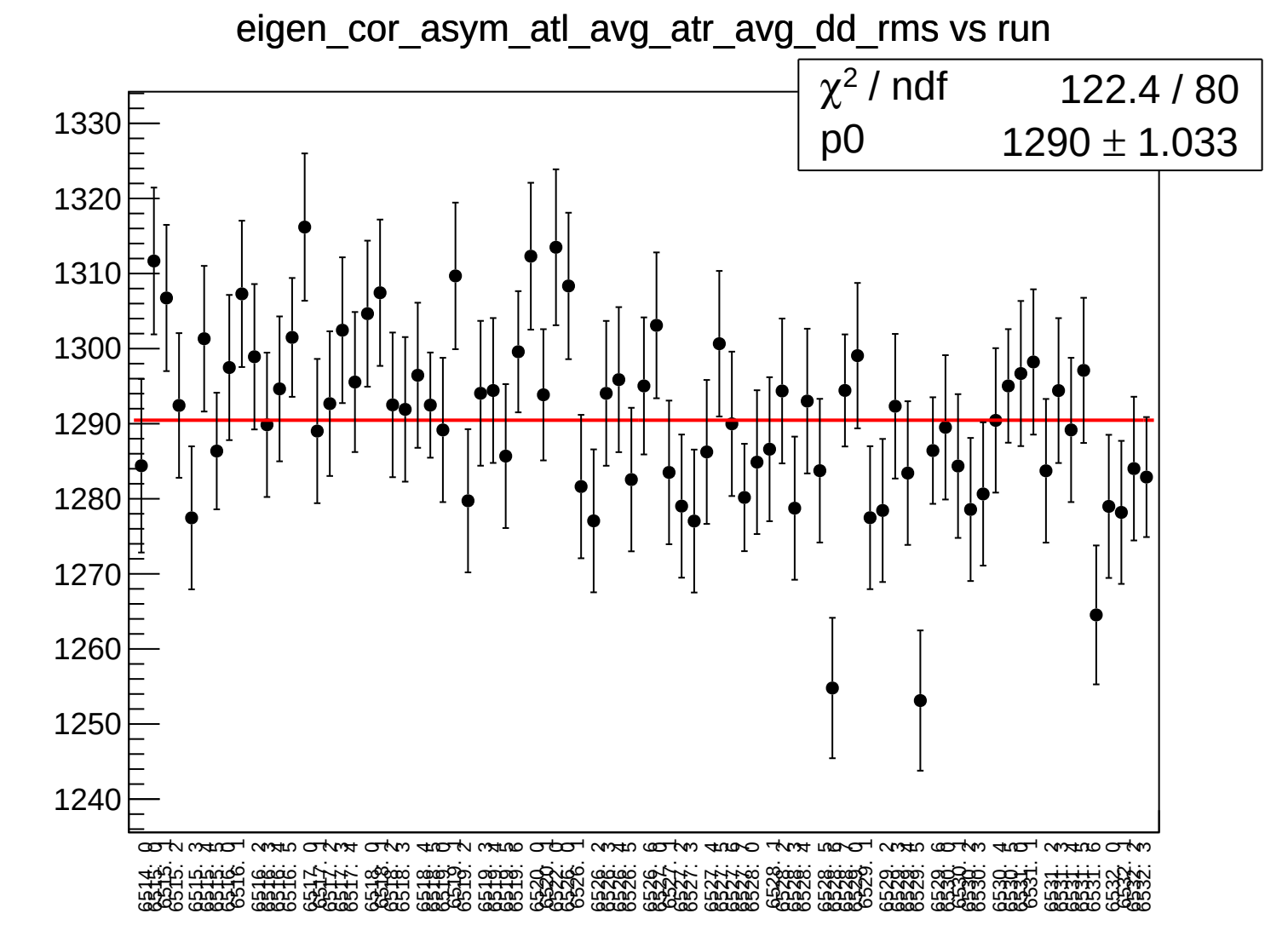

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 75.45 / 80
p0 174.5 ± 241.5
pull
Entries 81
Mean −357.4
Std Dev 0

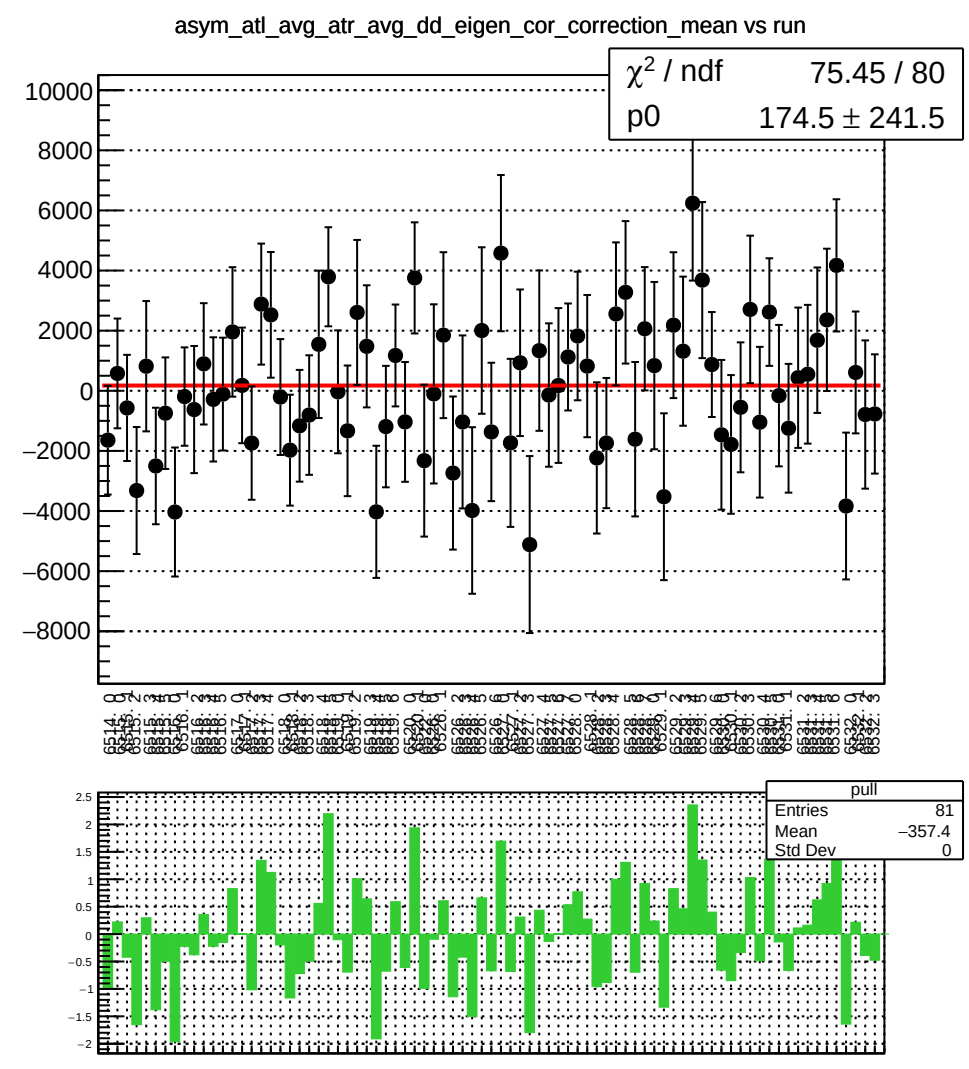

pull1D
Entries 81
Mean −0.01102
Std Dev 0.965

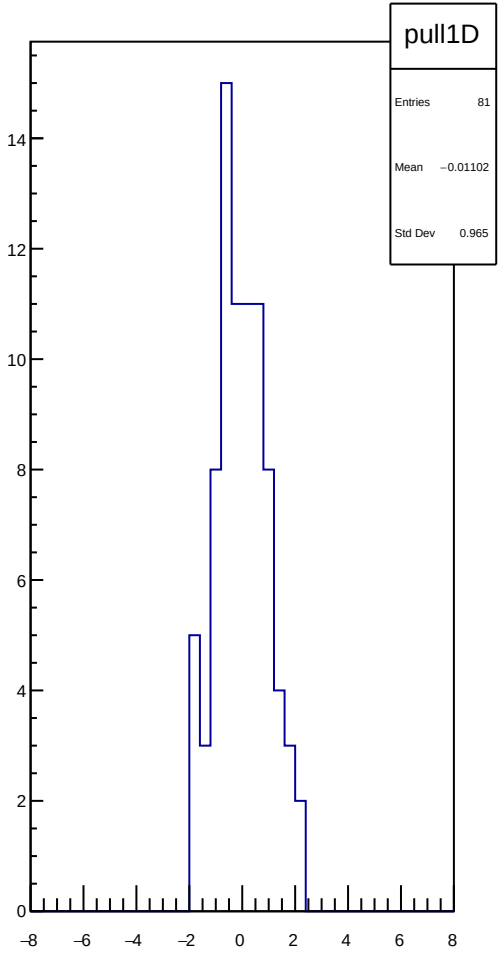

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 2.673e+04 / 80
p0 211.5 ± 0.1708
280
260
240
220
200
180
160
140

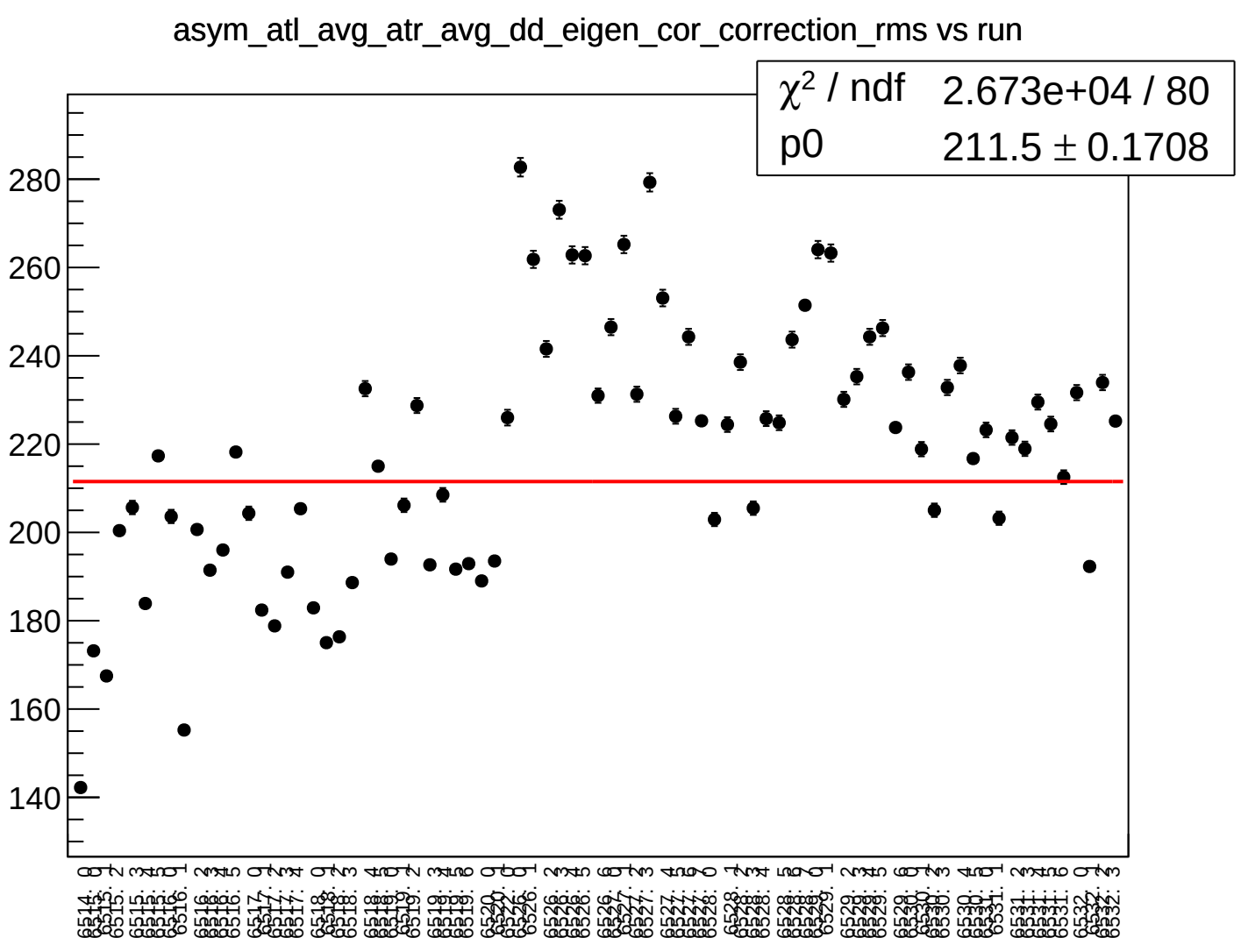

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 75.83 / 80
p0 171.2 ± 1461
60000
40000
20000
0
−20000
−40000
pull
Entries 81
Mean 357.2
Std Dev 0
3
2
1
0
−1
−2

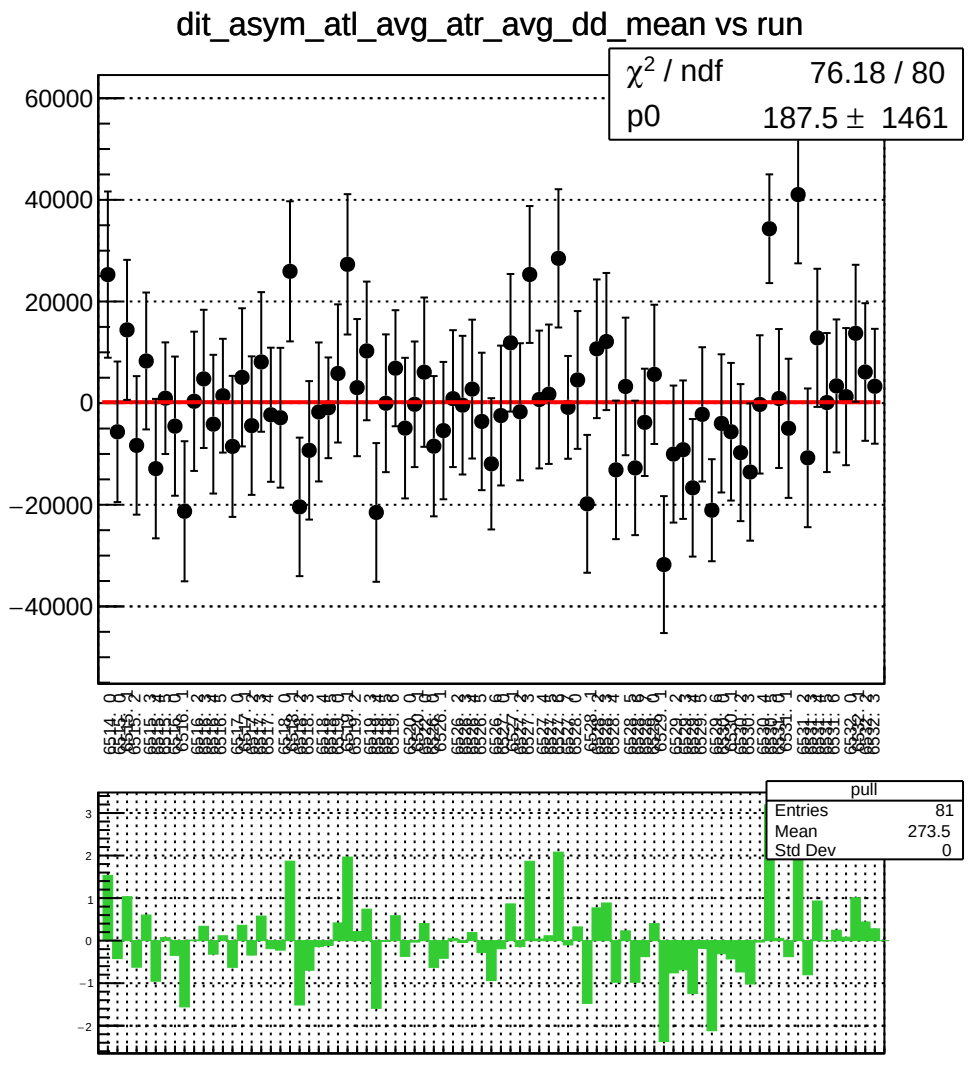

pull1D
Entries 81
Mean 0.002262
Std Dev 0.9676
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

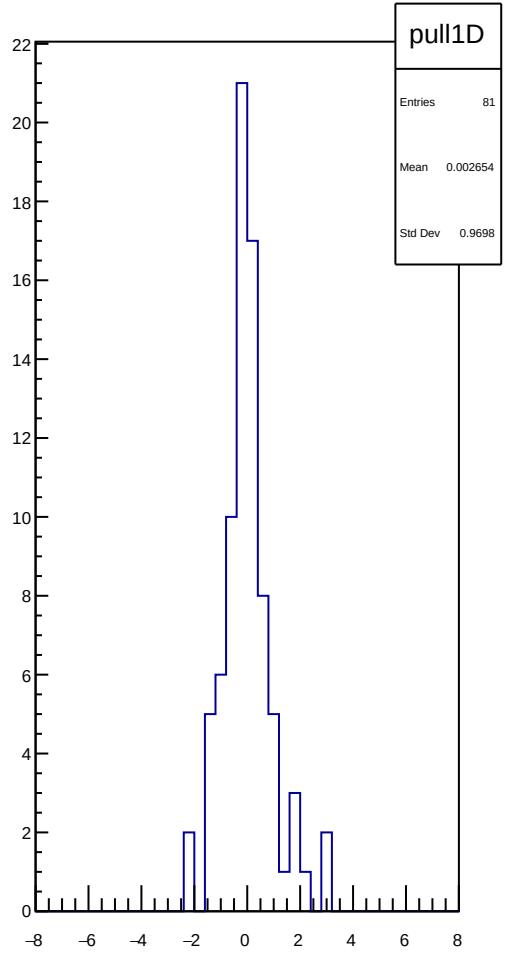

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 122.4 / 80
p0 1290 ± 1.033
1330
1320
1310
1300
1290
1280
1270
1260
1250
1240

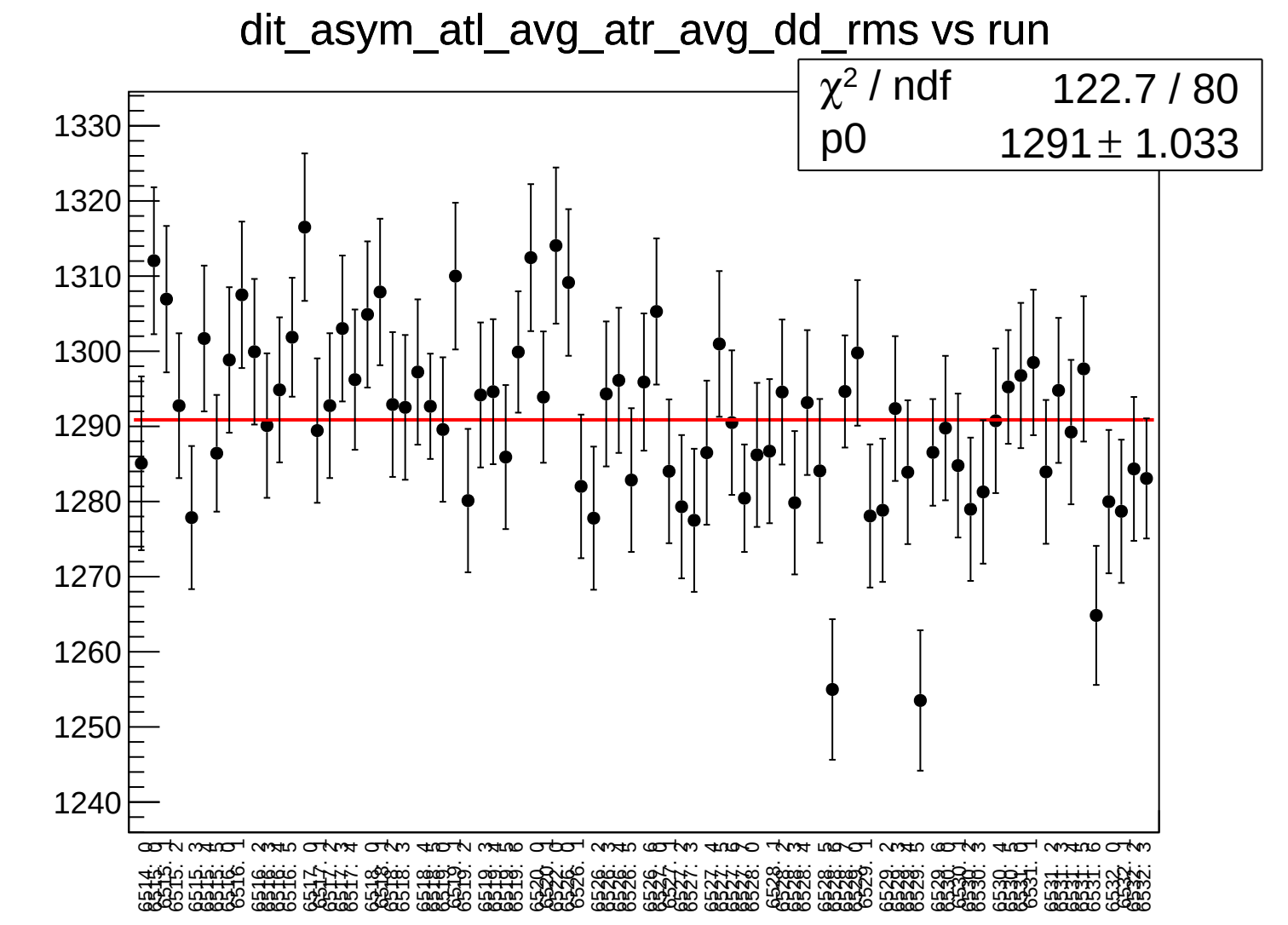

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 75.45 / 80
p0 174.5 ± 241.5
pull
Entries 81
Mean −357.4
Std Dev 0

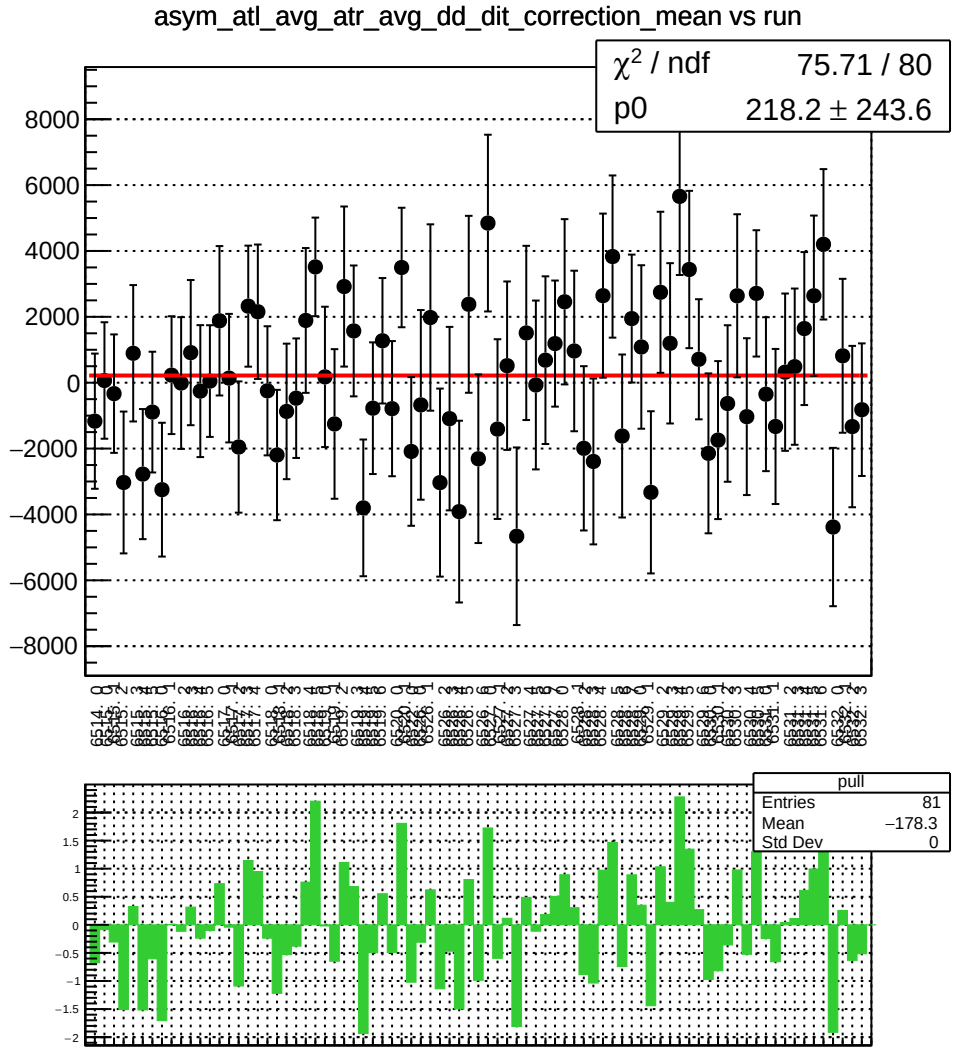

pull1D
Entries 81
Mean −0.01102
Std Dev 0.965

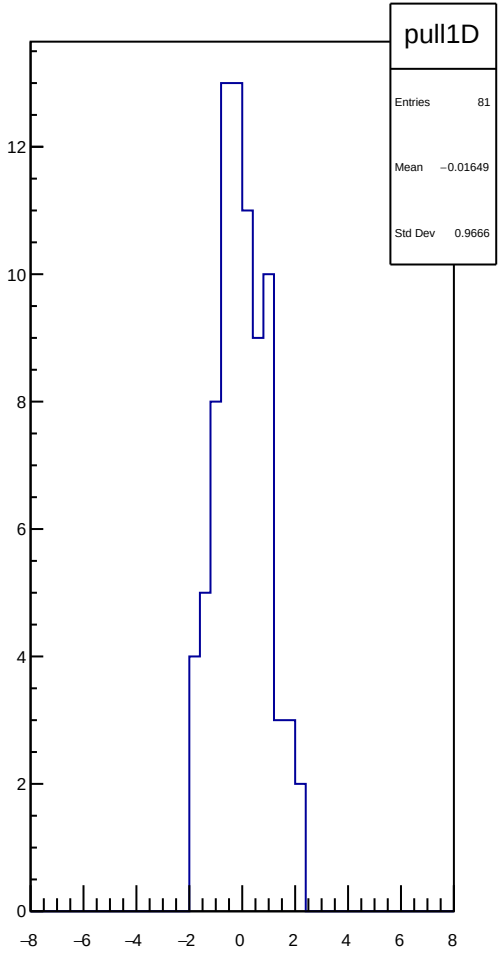

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.673e+04 / 80
p0 211.5 ± 0.1708
280
260
240
220
200
180
160
140

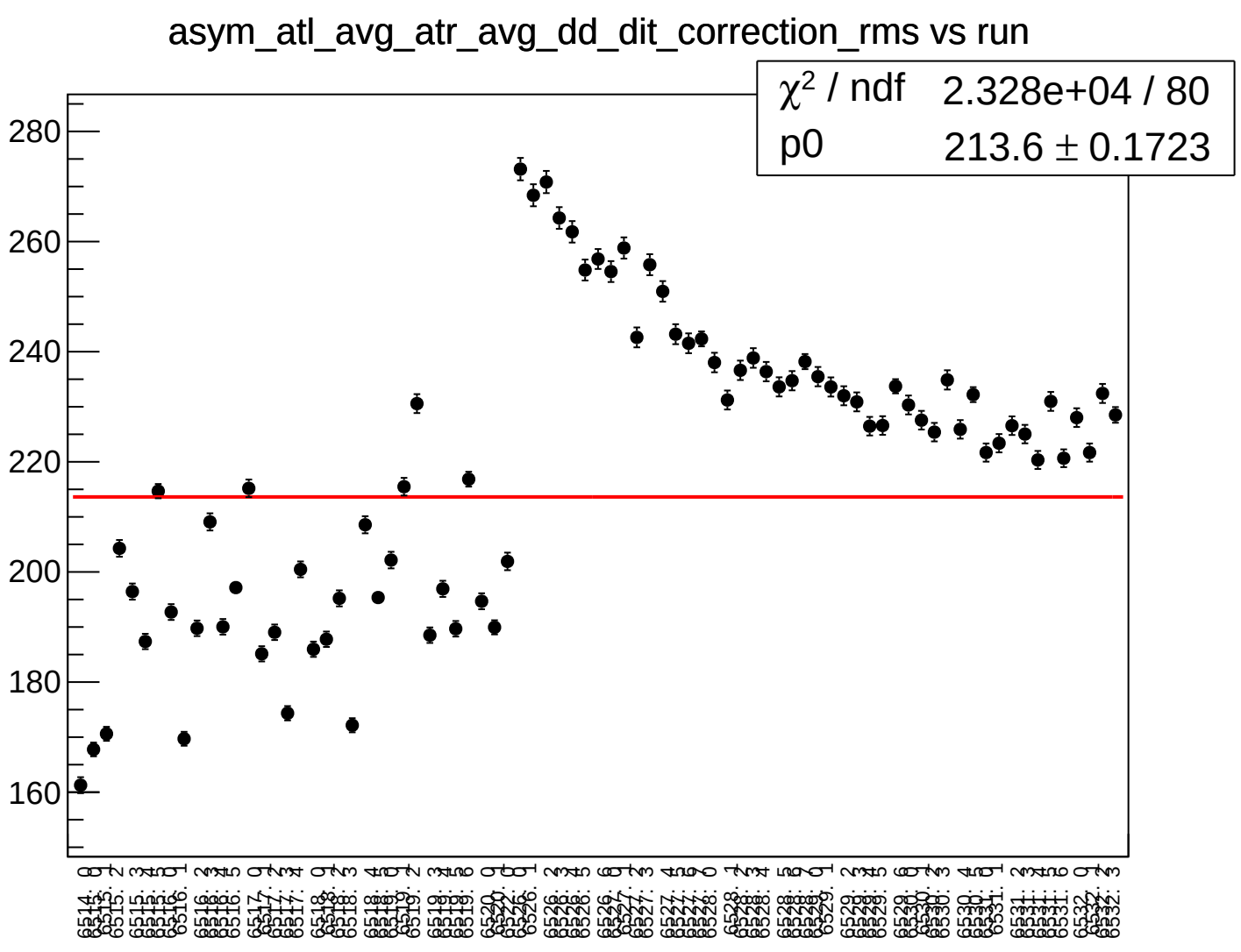

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 76.18 / 80
p0 187.5 ± 1461
pull
Entries 81
Mean 273.5
Std Dev 0

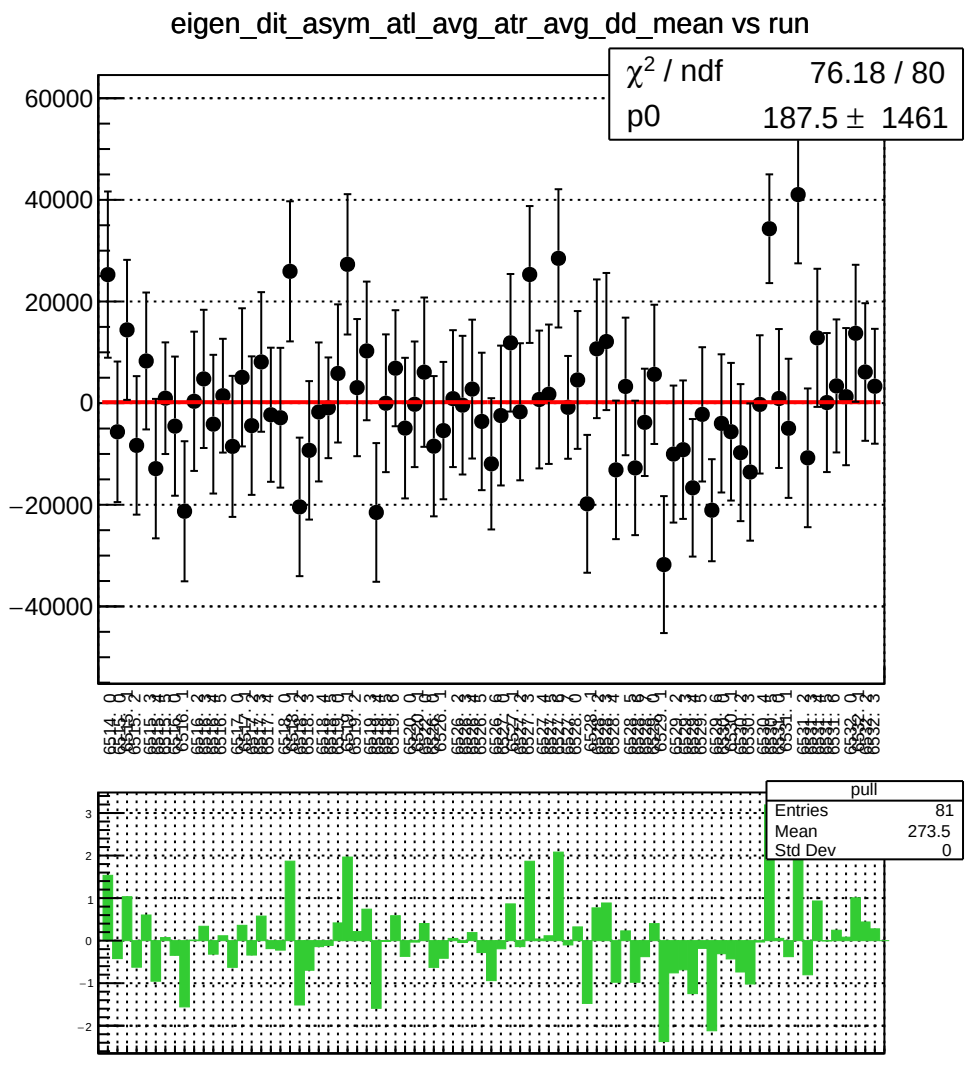

pull1D
Entries 81
Mean 0.002654
Std Dev 0.9698

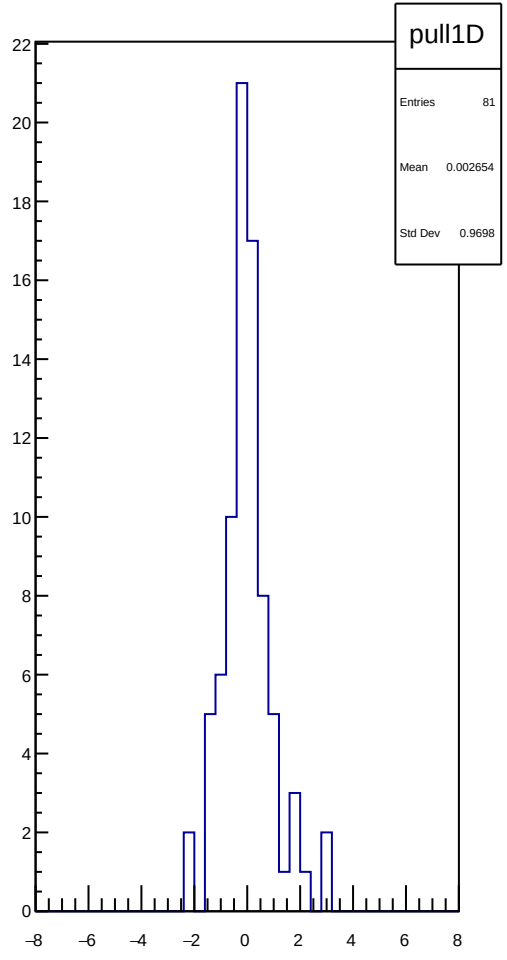

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 122.7 / 80
p0 1291 ± 1.033
1330
1320
1310
1300
1290
1280
1270
1260
1250
1240

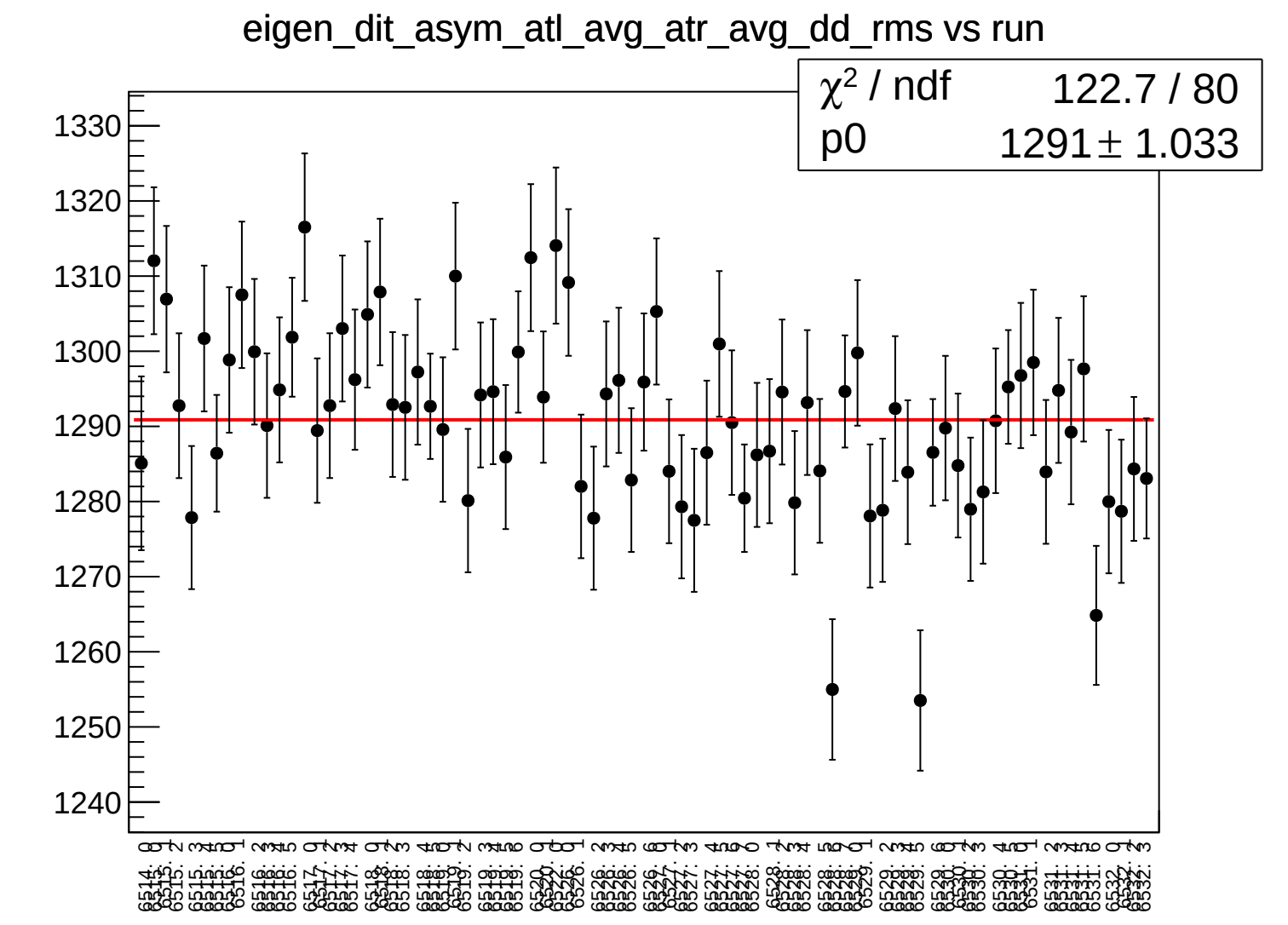

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 75.71 / 80
p0 218.2 ± 243.6
pull
Entries 81
Mean −178.3
Std Dev 0

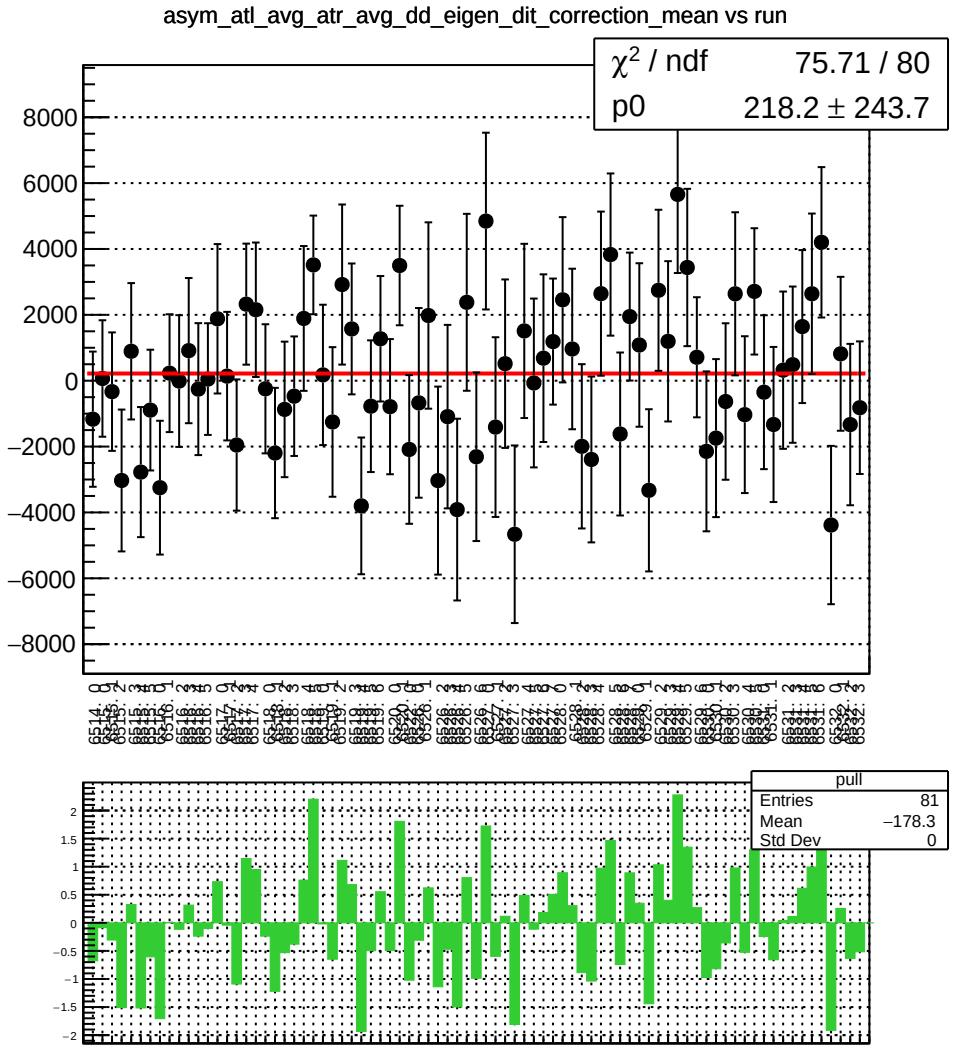

pull1D
Entries 81
Mean −0.01649
Std Dev 0.9666

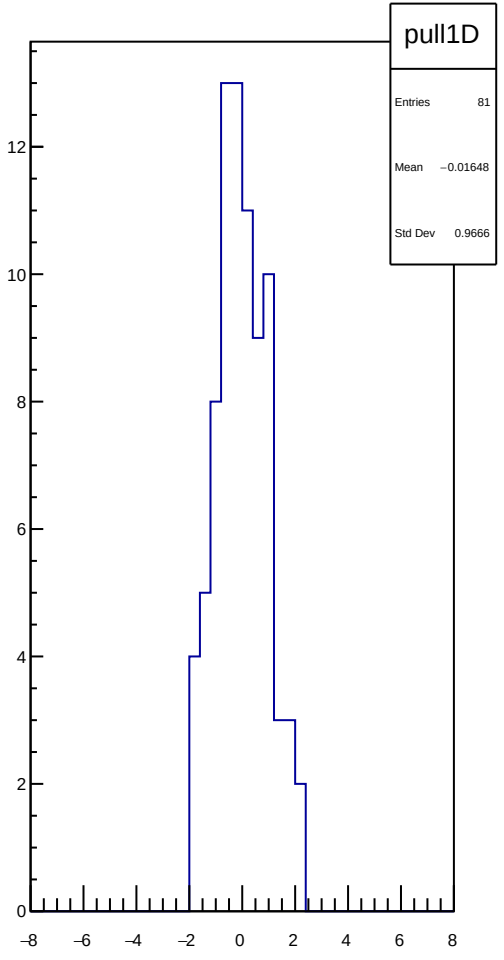

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 2.328e+04 / 80
p0 213.6 ± 0.1723
280
260
240
220
200
180
160

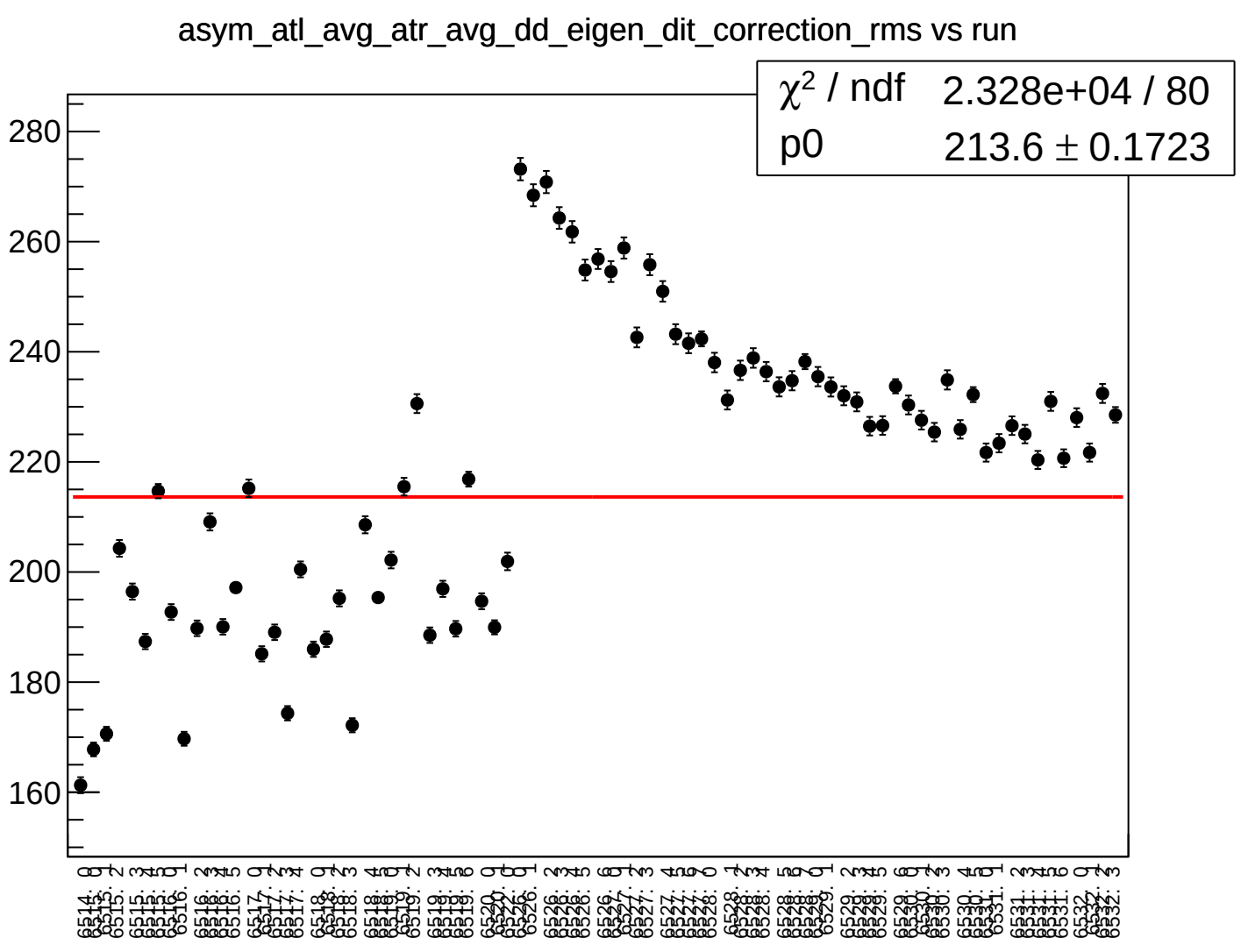

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 76.18 / 80
p0 187.5 ± 1461
60000
40000
20000
0
−20000
−40000
pull
Entries 81
Mean 273.5
Std Dev 0
3
2
1
0
−1
−2

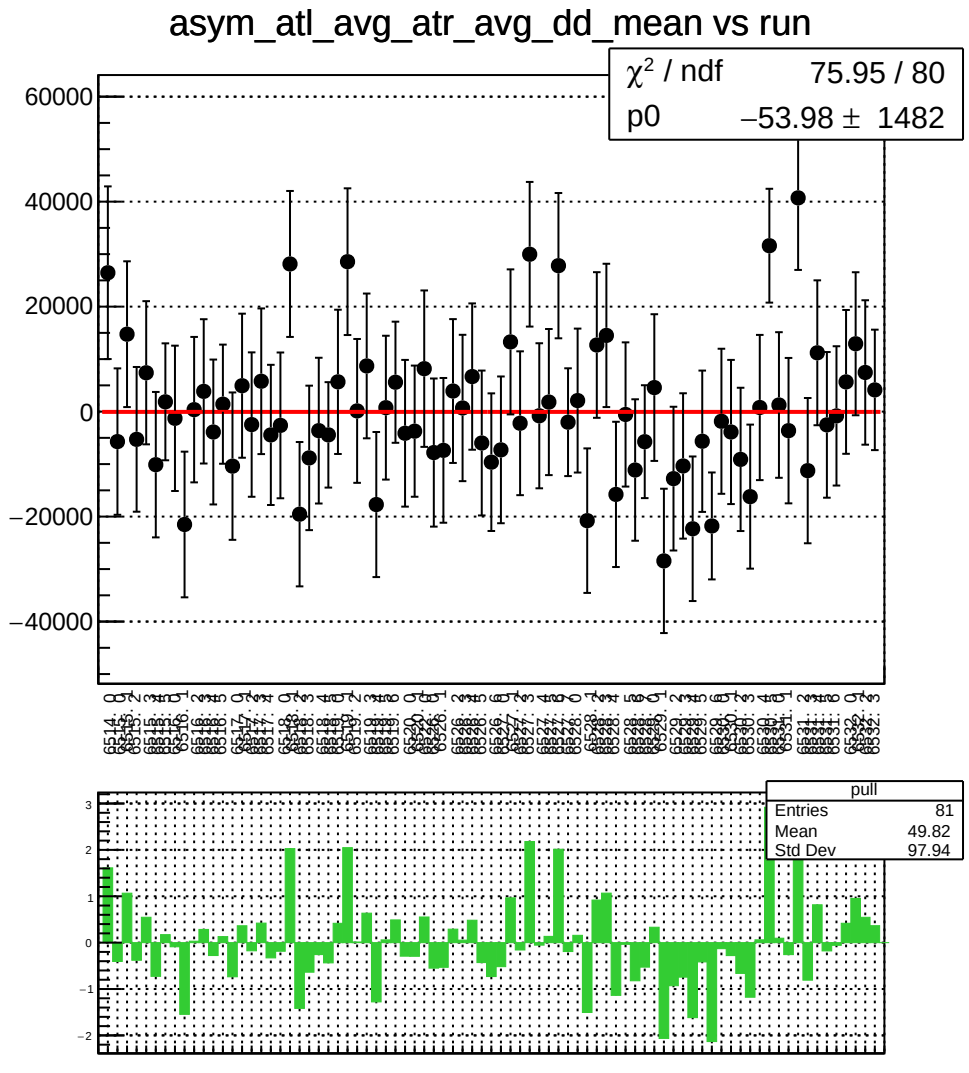

pull1D
Entries 81
Mean 0.002654
Std Dev 0.9698
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

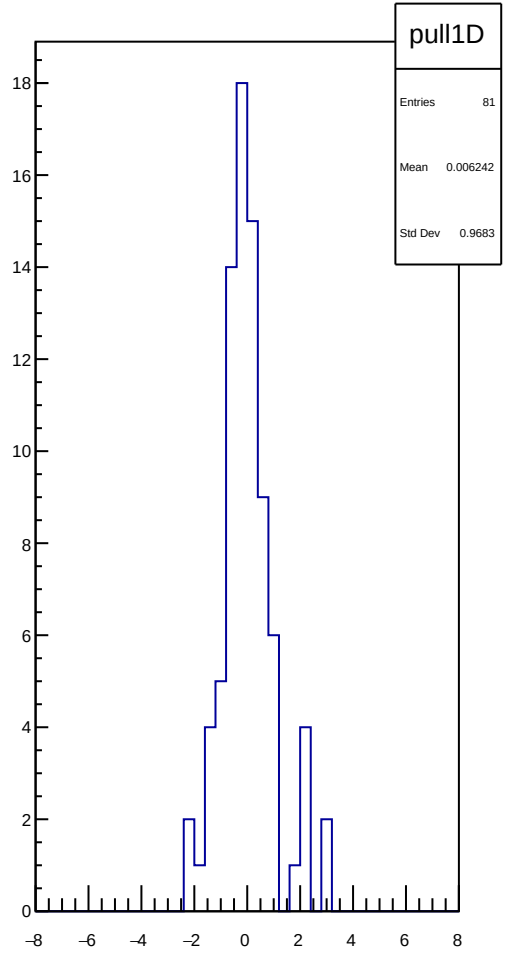

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 122.7 / 80
p0 1291 ± 1.033
1330
1320
1310
1300
1290
1280
1270
1260
1250
1240

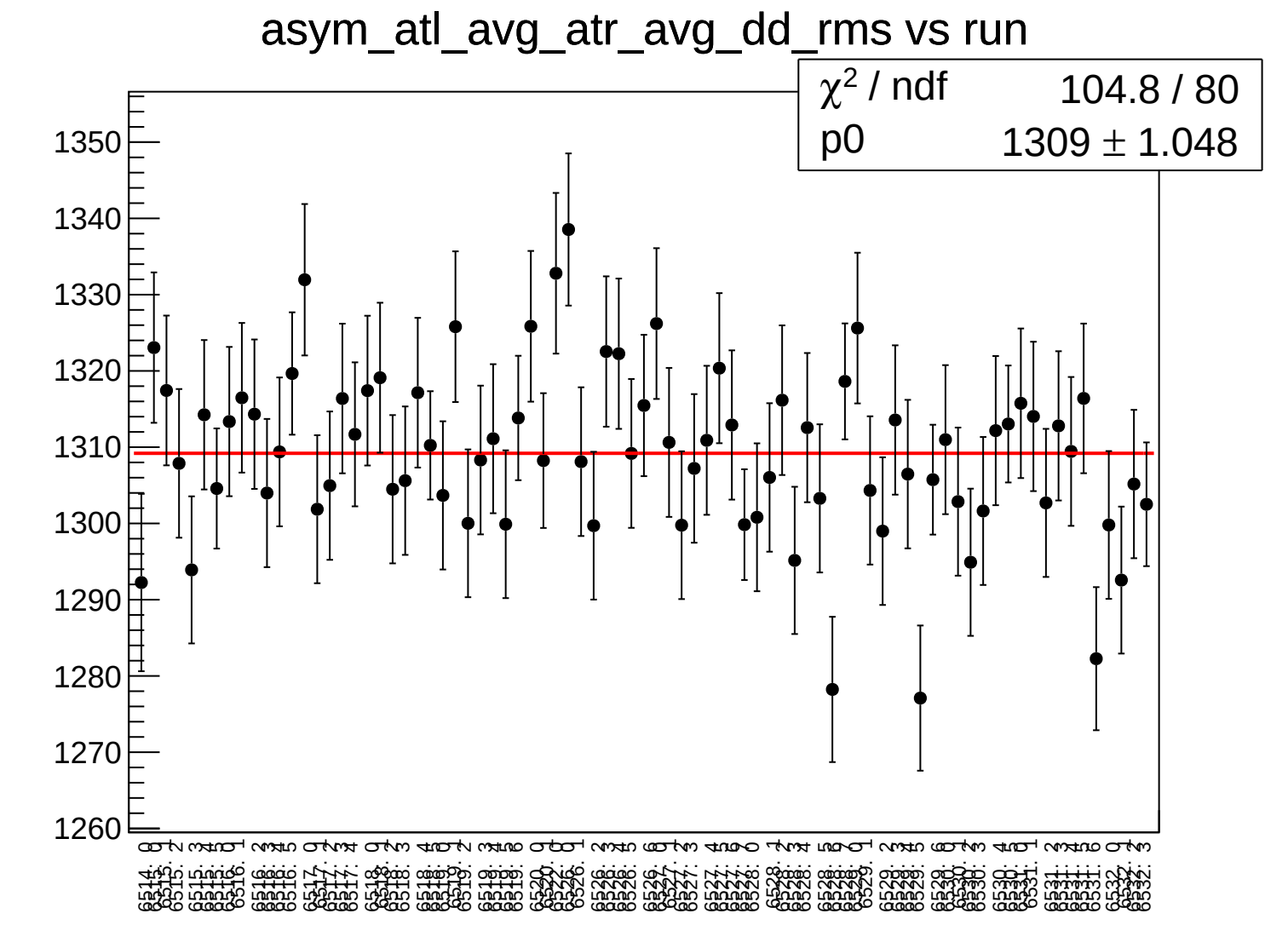

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 75.71 / 80
p0 218.2 ± 243.7
pull
Entries 81
Mean −178.3
Std Dev 0

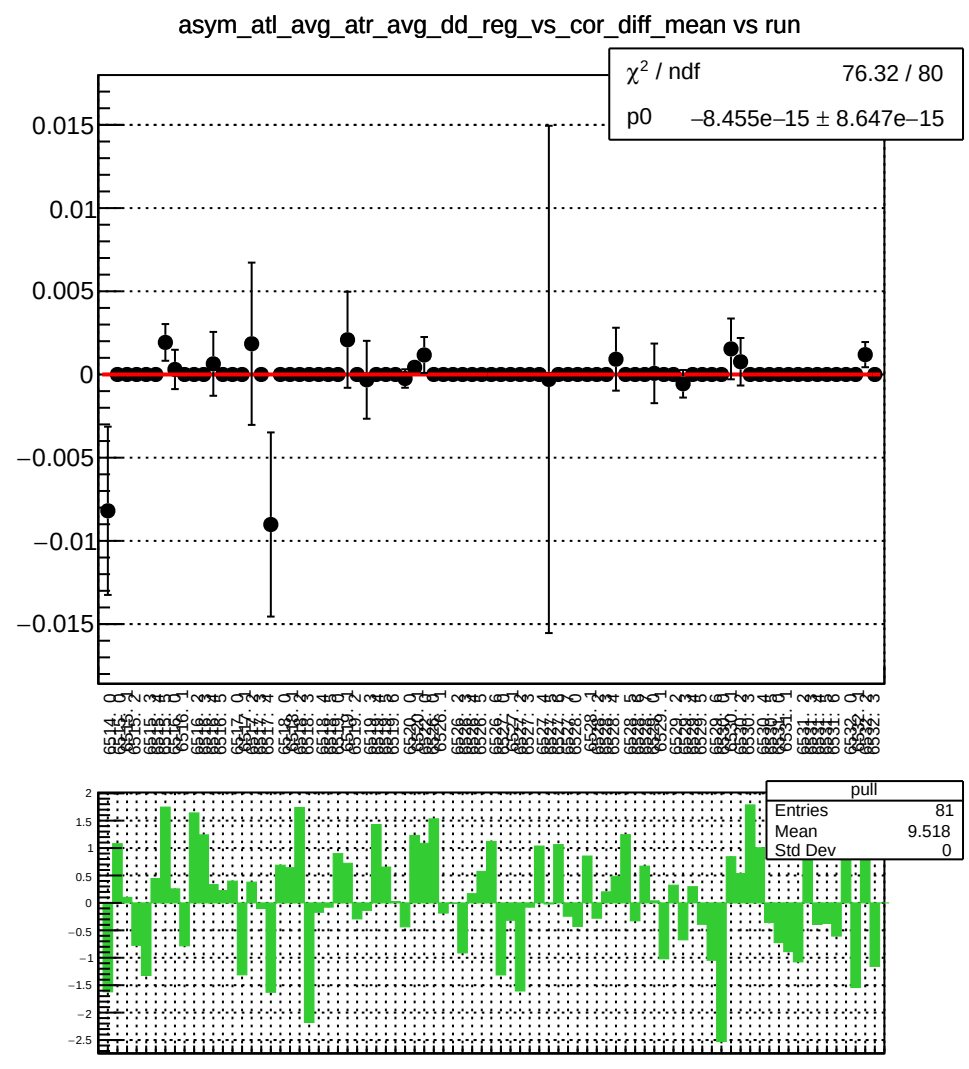

pull1D
Entries 81
Mean −0.01648
Std Dev 0.9666

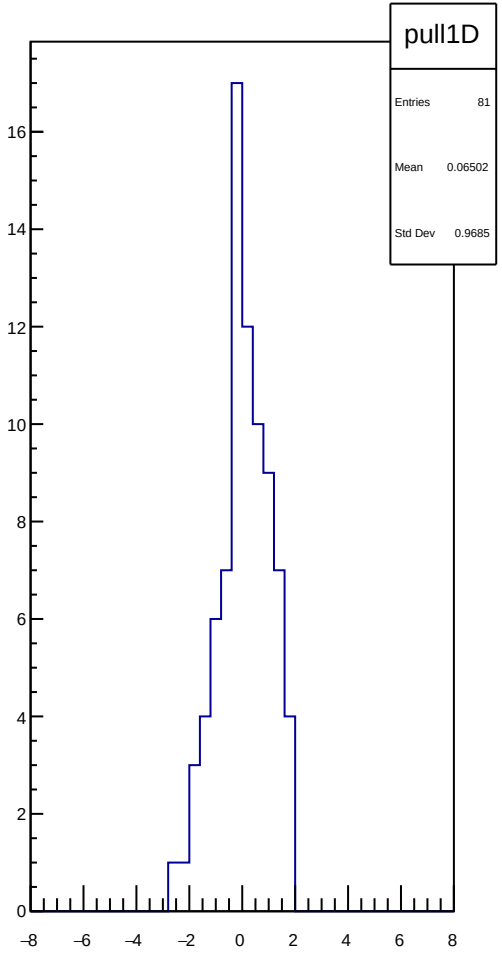

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.328e+04 / 80
p0 213.6 ± 0.1723
280
260
240
220
200
180
160

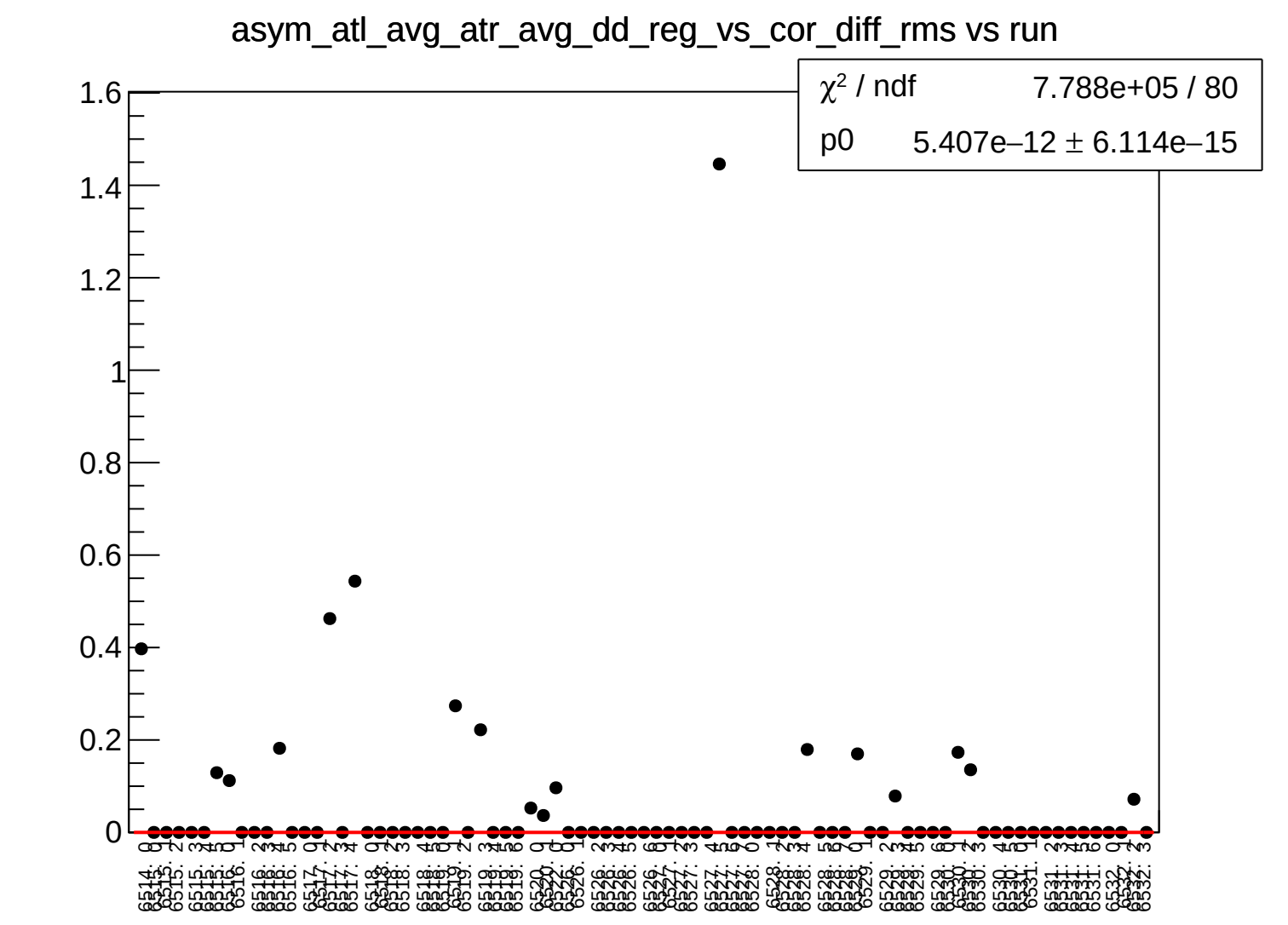

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 75.95 / 80
p0 −53.98 ± 1482
60000
40000
20000
0
−20000
−40000
pull
Entries 81
Mean 49.82
Std Dev 97.94
3
2
1
0
−1
−2

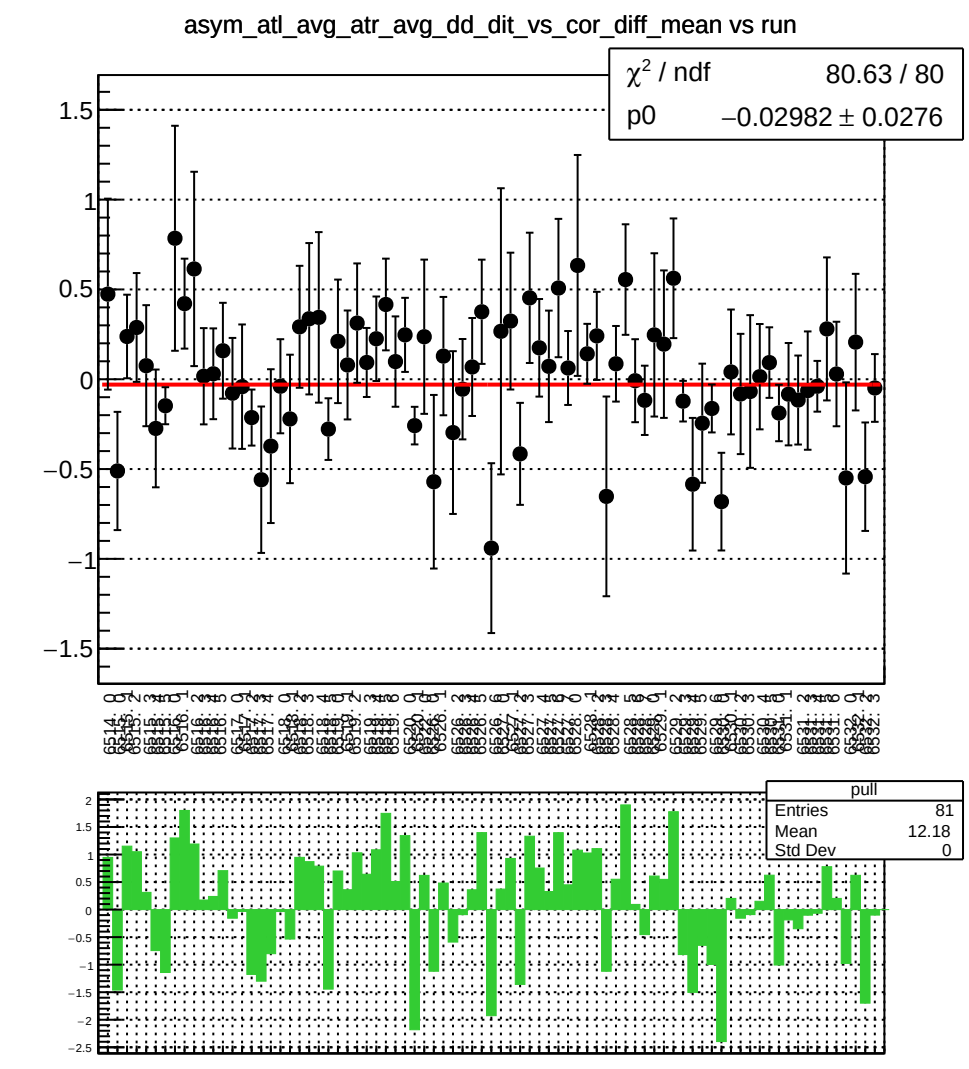

pull1D
Entries 81
Mean 0.006242
Std Dev 0.9683
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

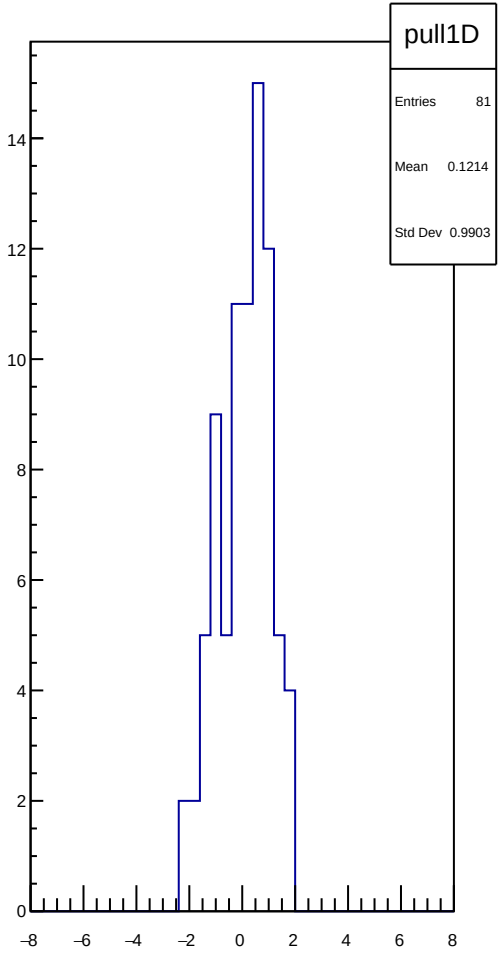

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 104.8 / 80
p0 1309 ± 1.048
1350
1340
1330
1320
1310
1300
1290
1280
1270
1260

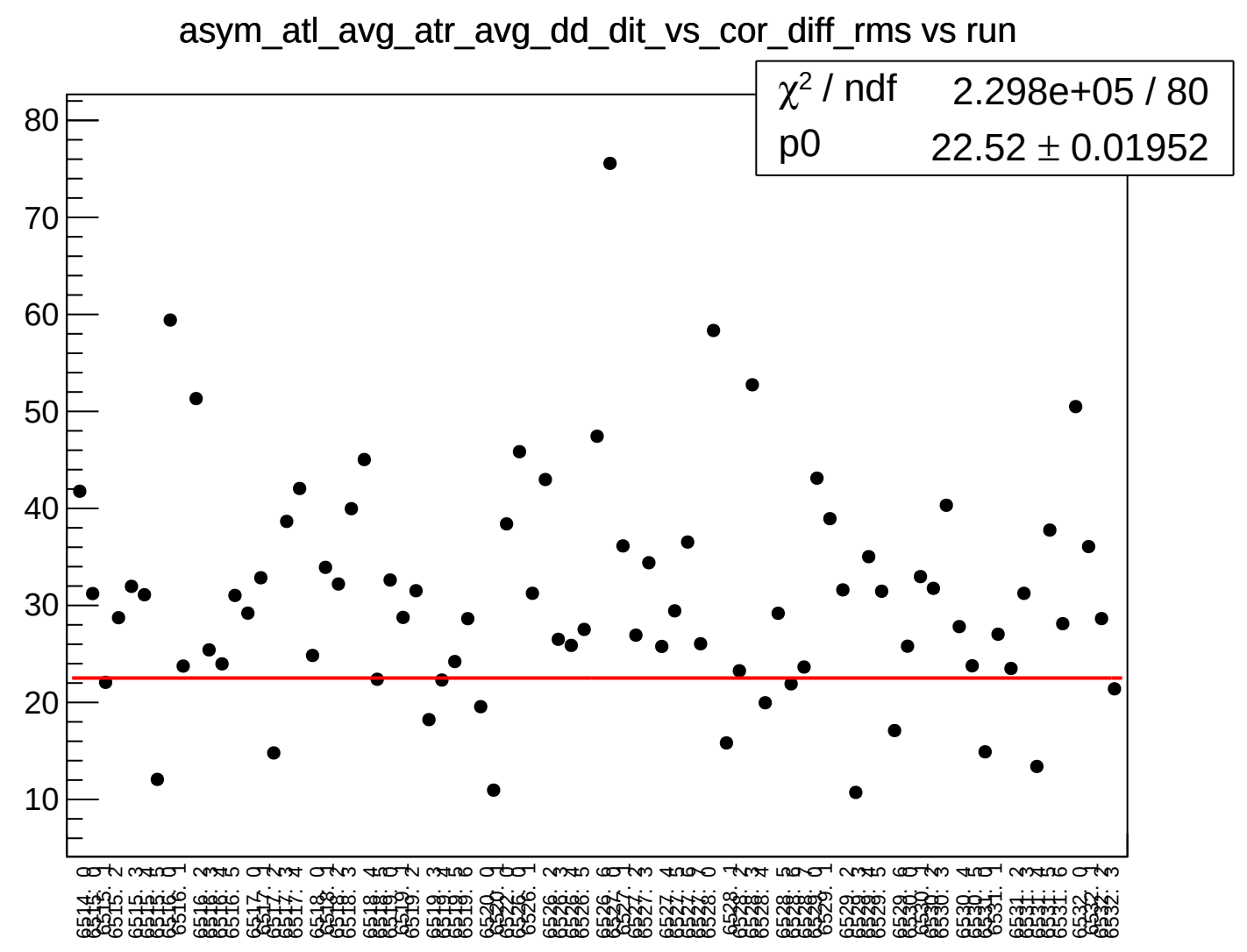

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 76.32 / 80
p0 −8.455e−15 ± 8.647e−15
pull
Entries 81
Mean 9.518
Std Dev 0

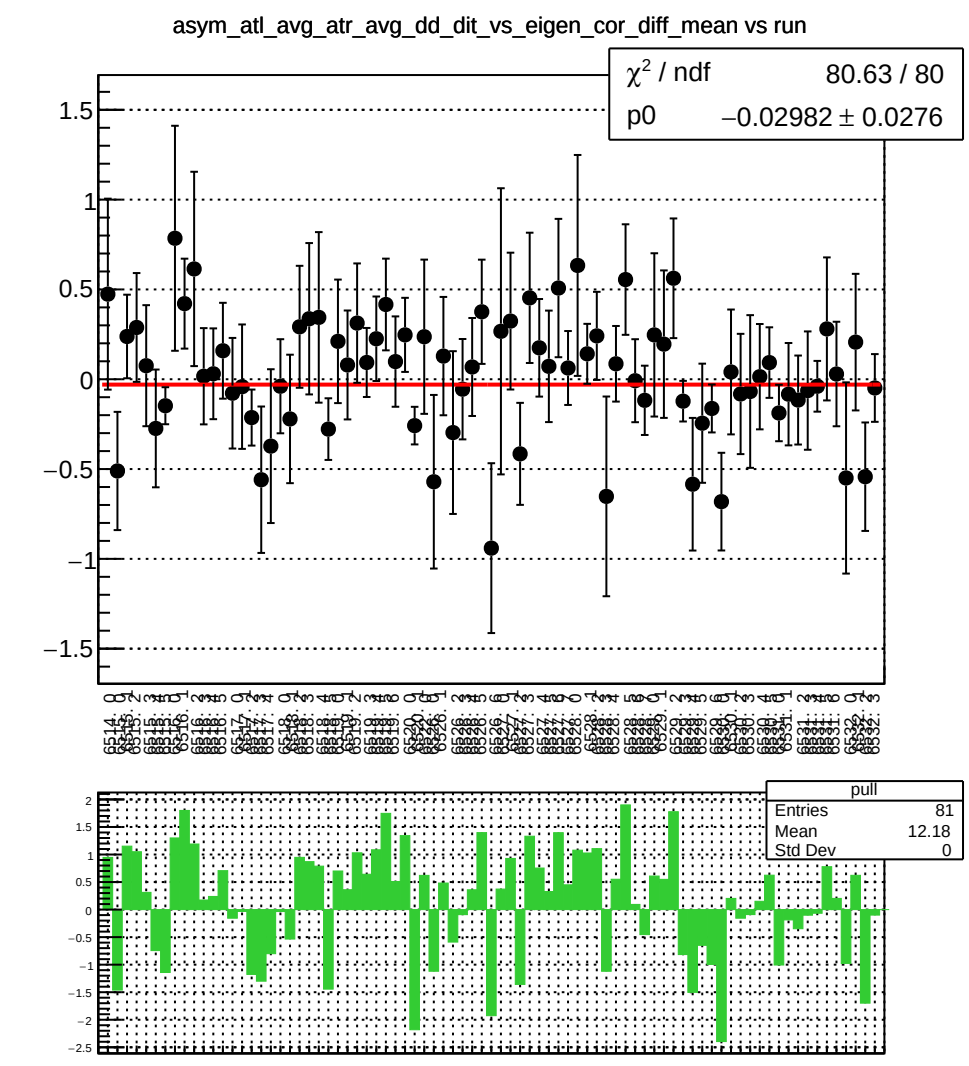

pull1D
Entries 81
Mean 0.06502
Std Dev 0.9685

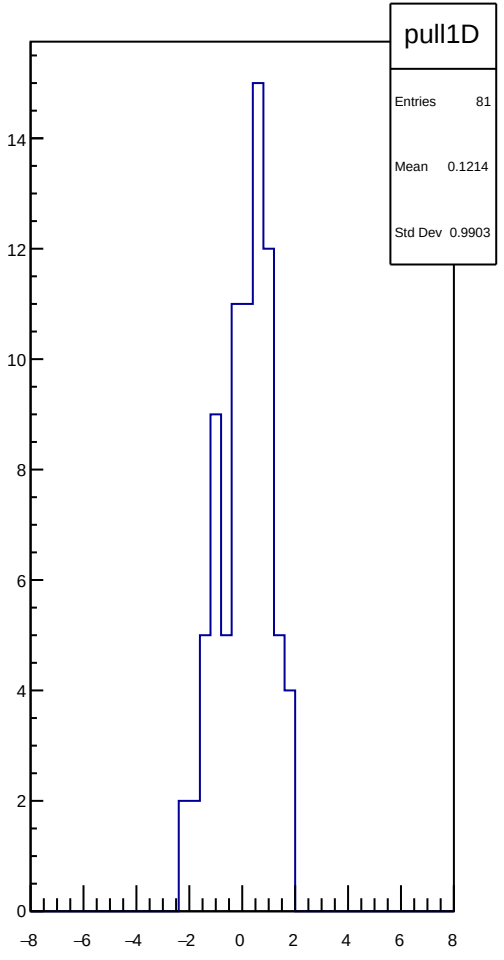

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.788e+05 / 80
p0 5.407e−12 ± 6.114e−15
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

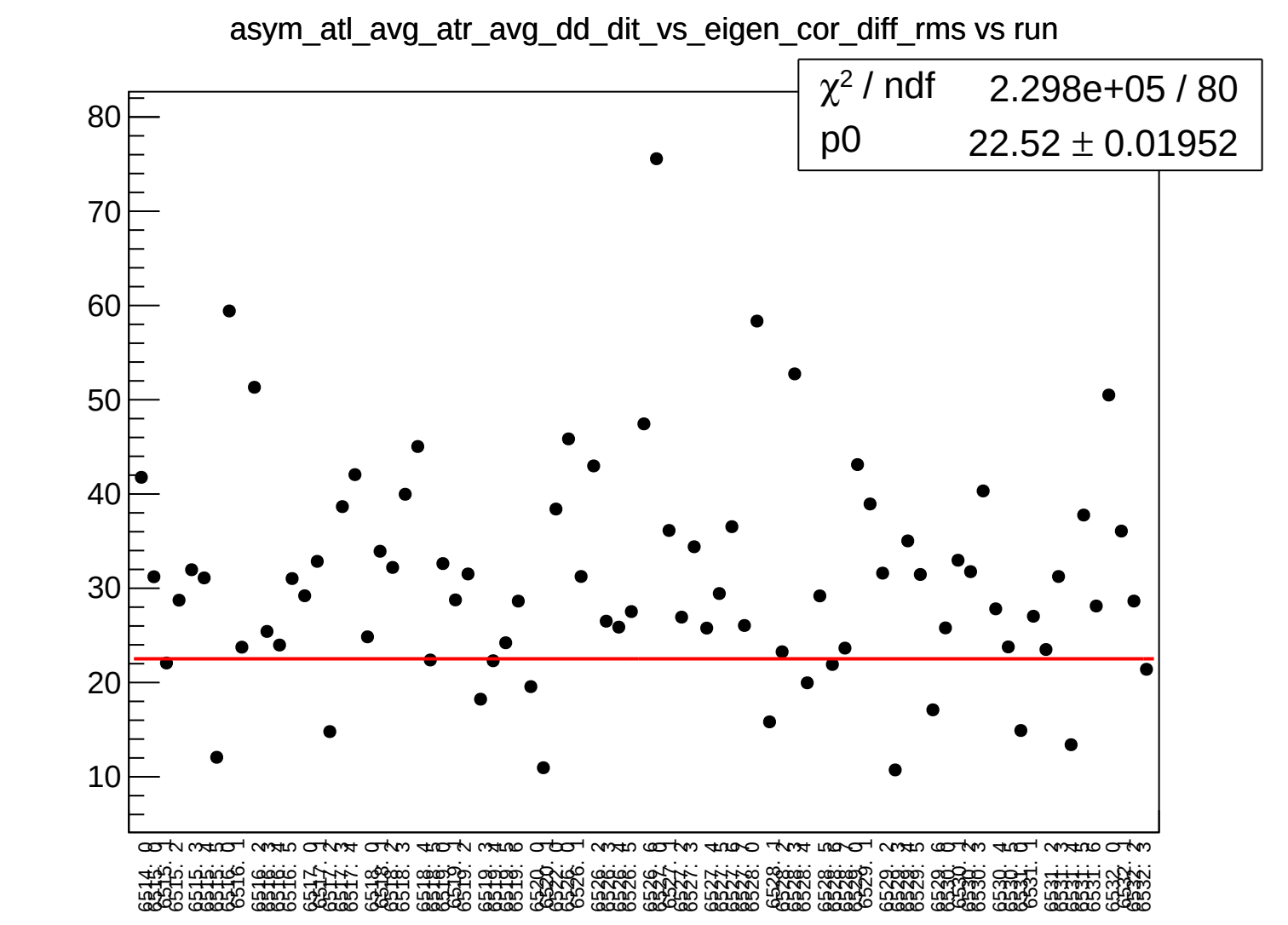

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 80.63 / 80
p0 −0.02982 ± 0.0276
pull
Entries 81
Mean 12.18
Std Dev 0

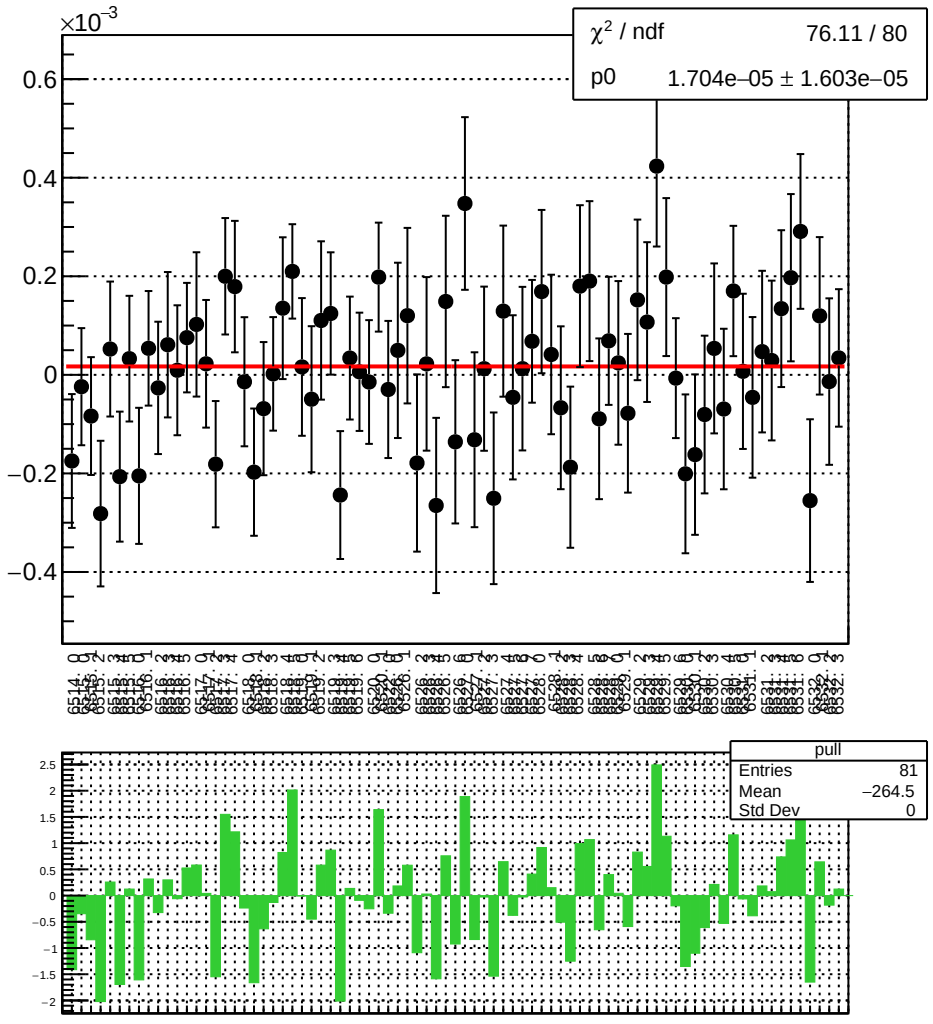

pull1D
Entries 81
Mean 0.1214
Std Dev 0.9903

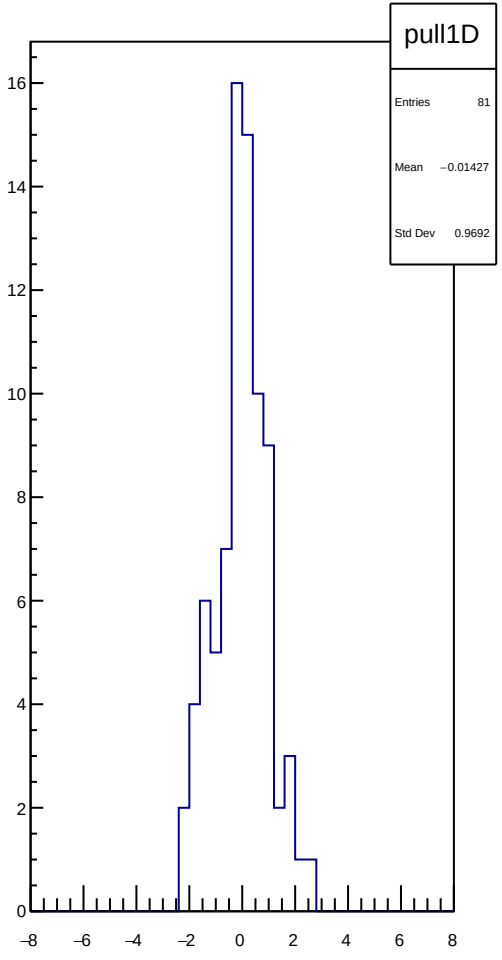

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.298e+05 / 80
p0 22.52 ± 0.01952
80
70
60
50
40
30
20
10

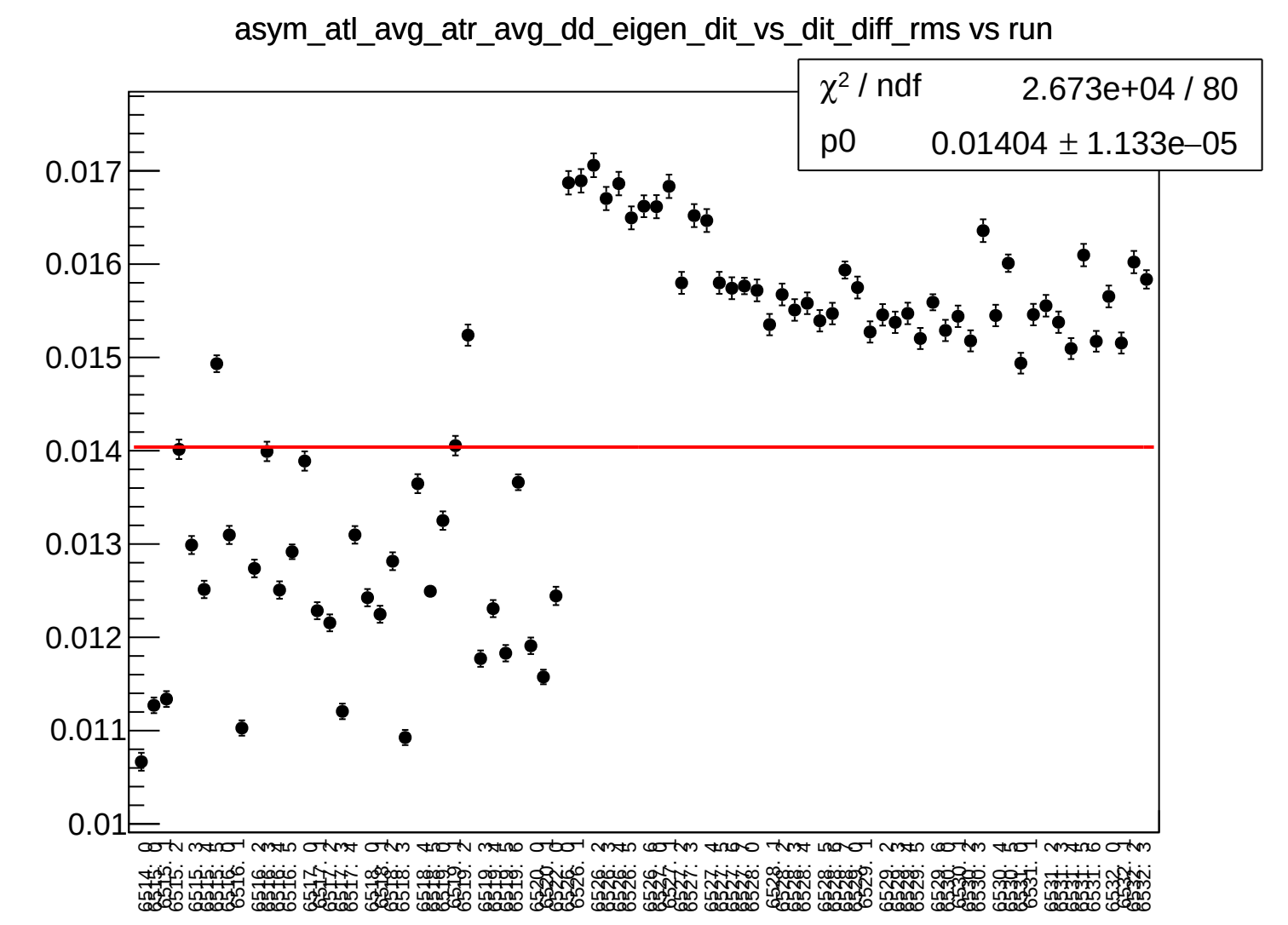

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.63 / 80
p0 −0.02982 ± 0.0276
pull
Entries 81
Mean 12.18
Std Dev 0

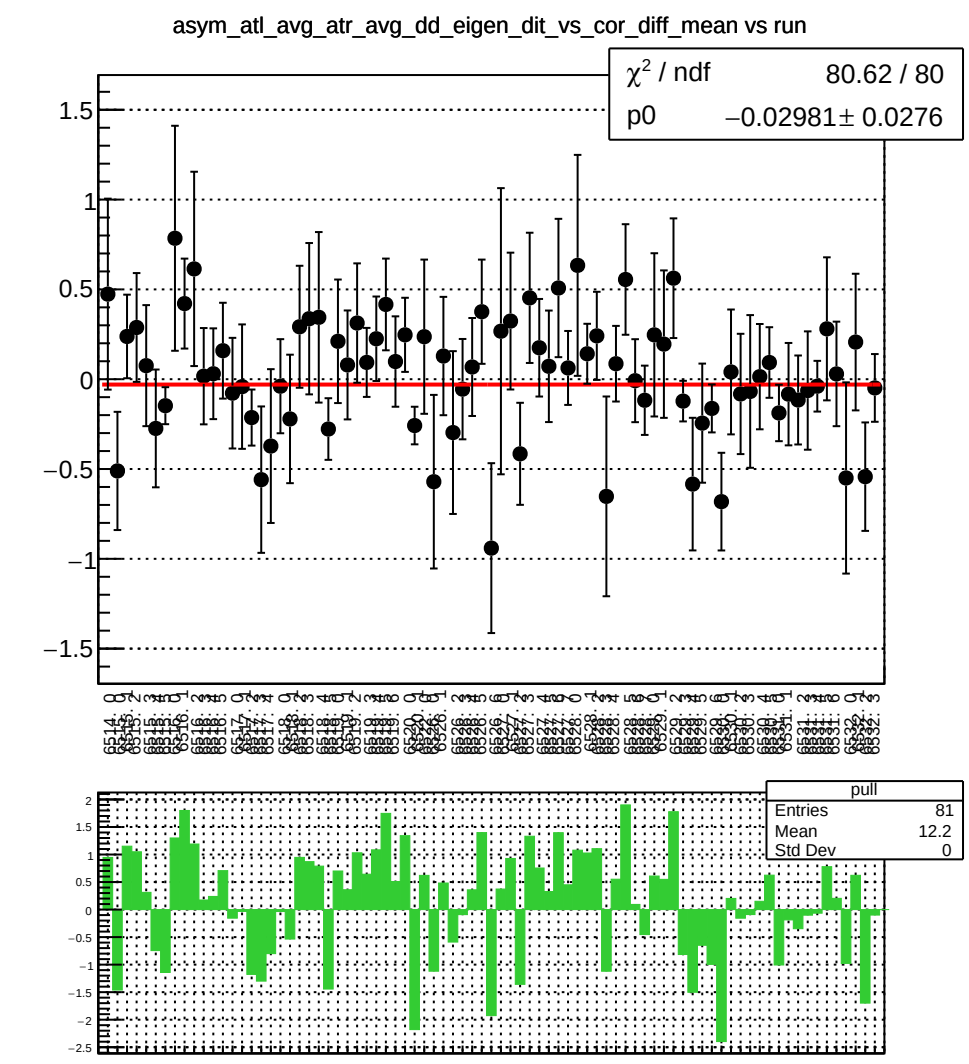

pull1D
Entries 81
Mean 0.1214
Std Dev 0.9903

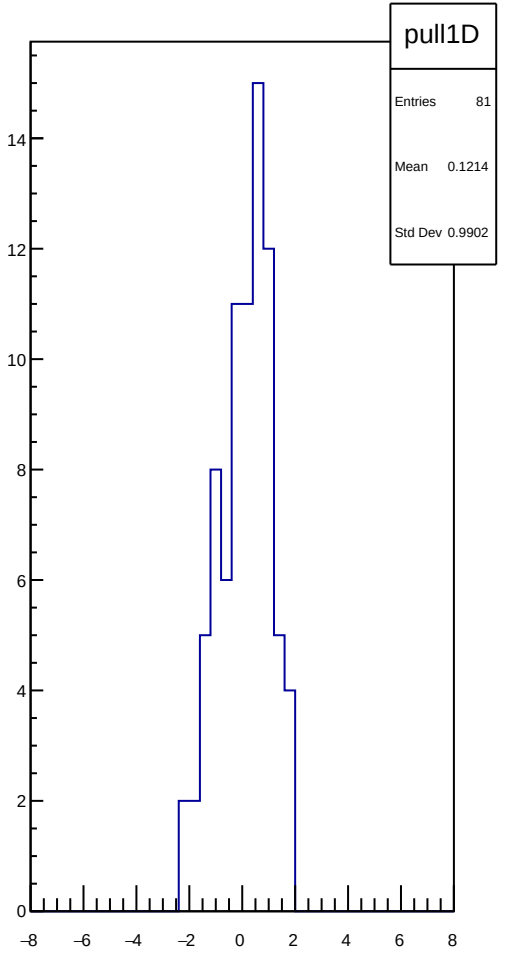

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.298e+05 / 80
p0 22.52 ± 0.01952
80
70
60
50
40
30
20
10

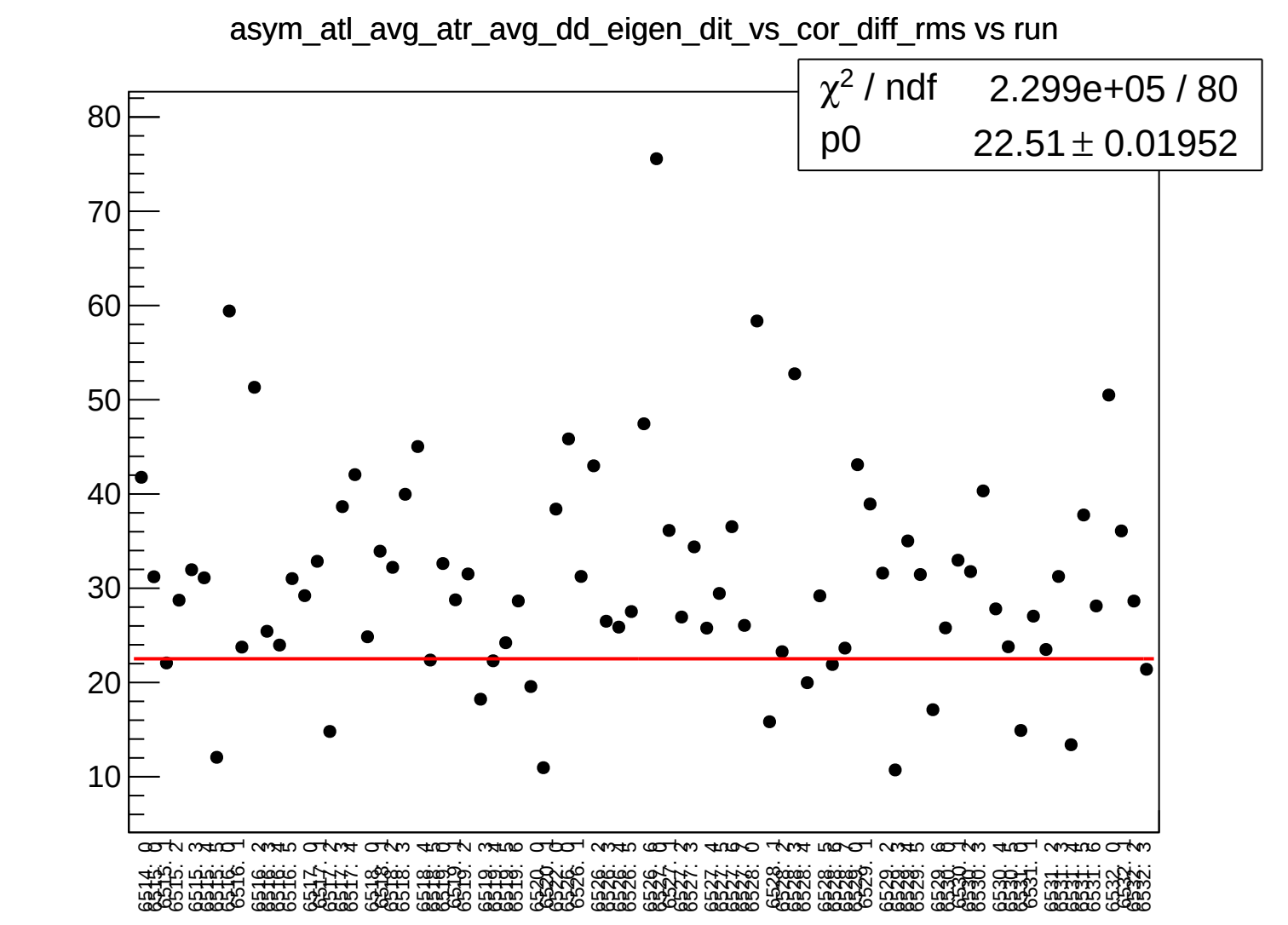

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.11 / 80
p0 1.704e−05 ± 1.603e−05
pull
Entries 81
Mean −264.5
Std Dev 0

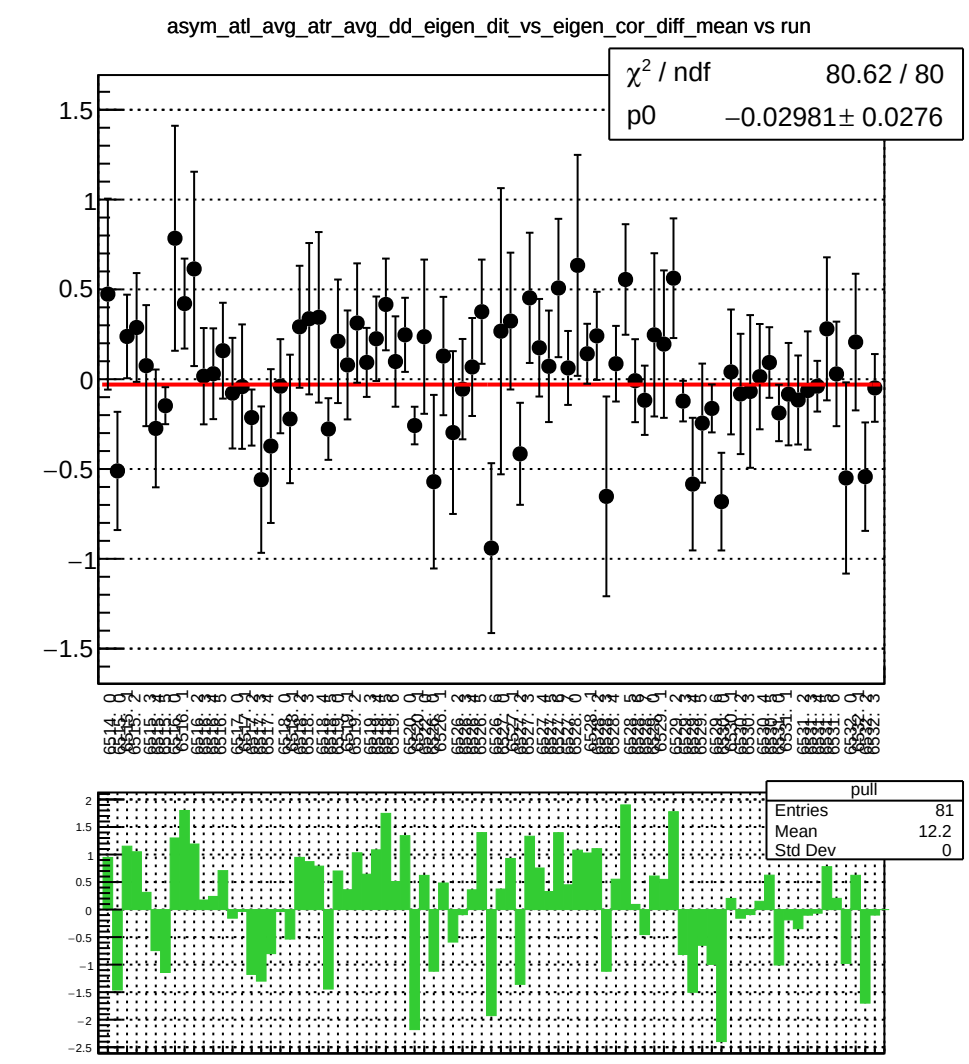

pull1D
Entries 81
Mean −0.01427
Std Dev 0.9692

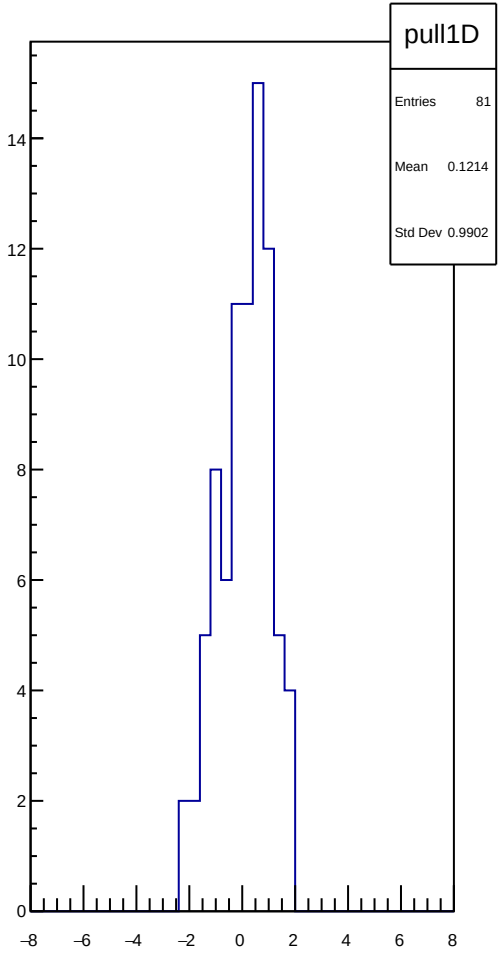

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.673e+04 / 80
p0 0.01404 ± 1.133e−05
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01

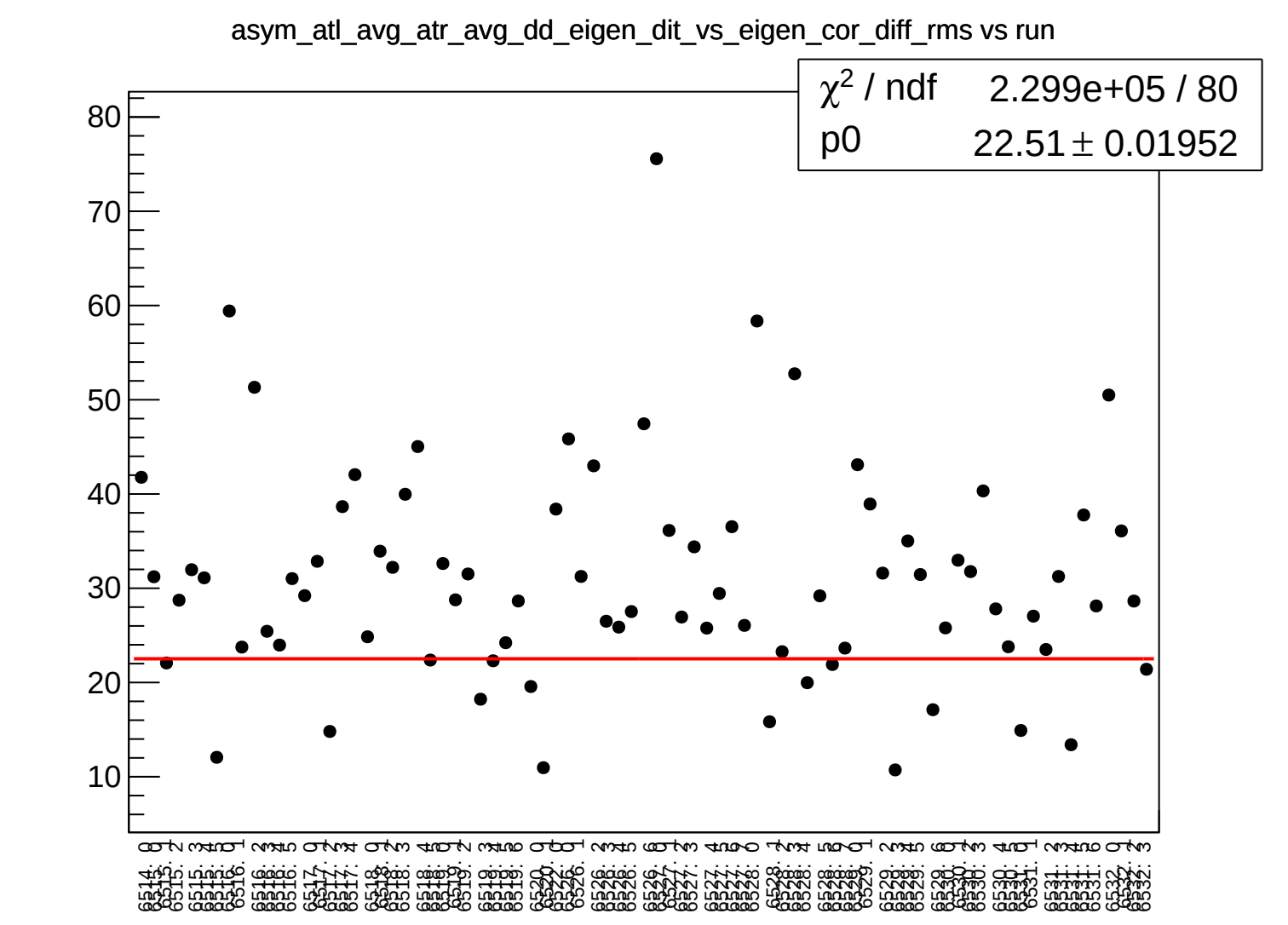

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.62 / 80
p0 −0.02981 ± 0.0276
pull
Entries 81
Mean 12.2
Std Dev 0

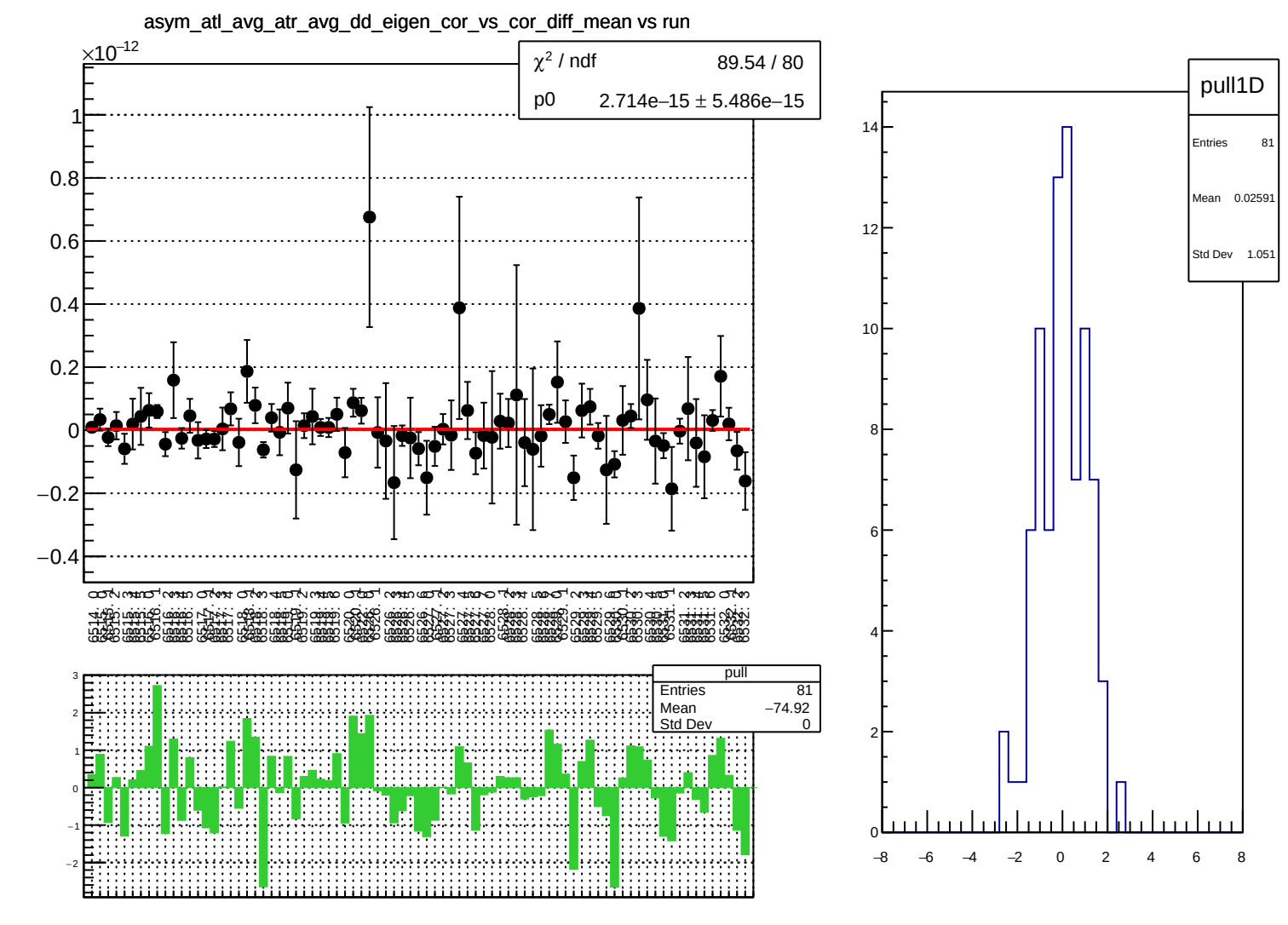

pull1D
Entries 81
Mean 0.1214
Std Dev 0.9902

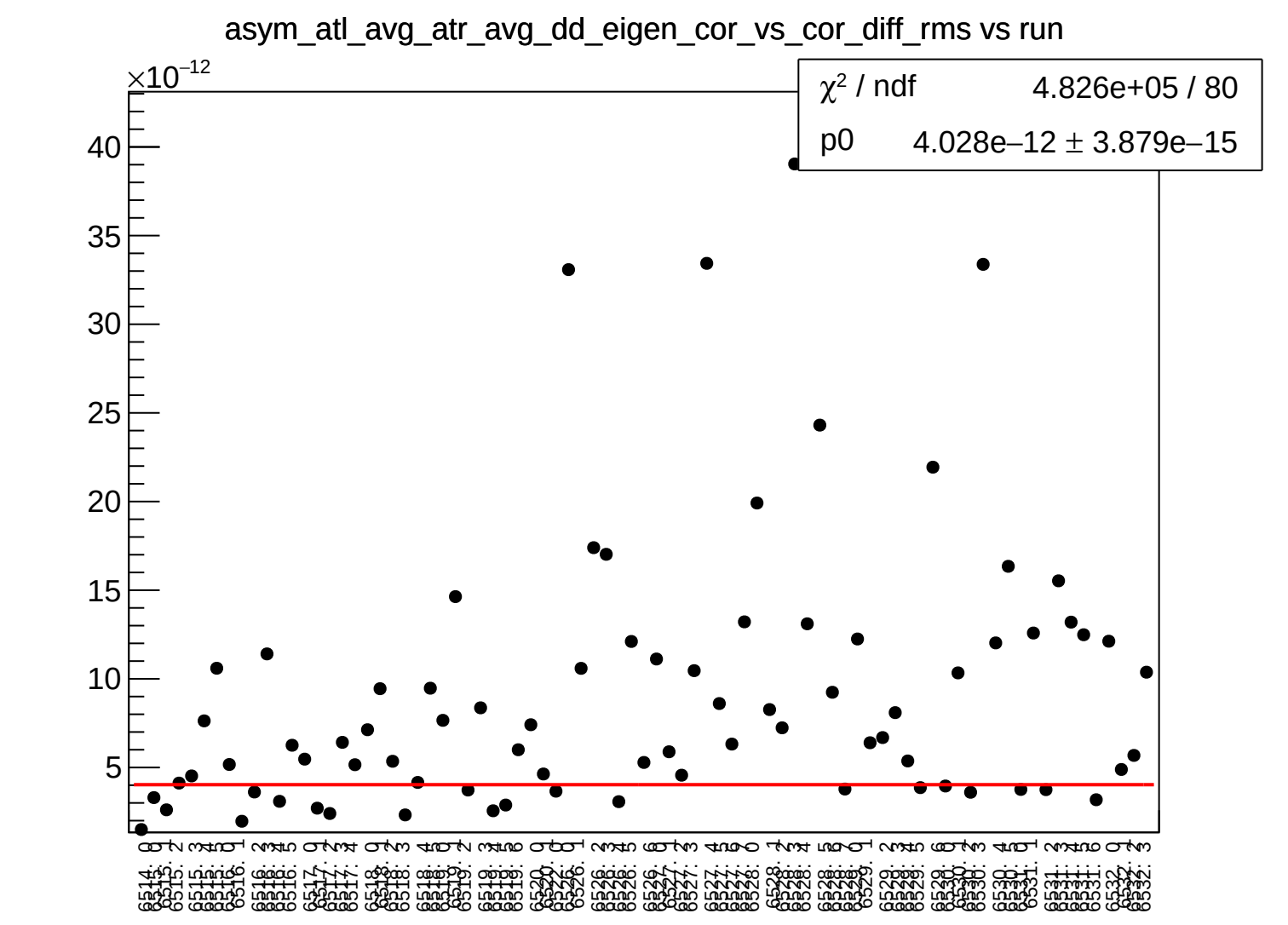

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.299e+05 / 80
p0 22.51 ± 0.01952
80
70
60
50
40
30
20
10

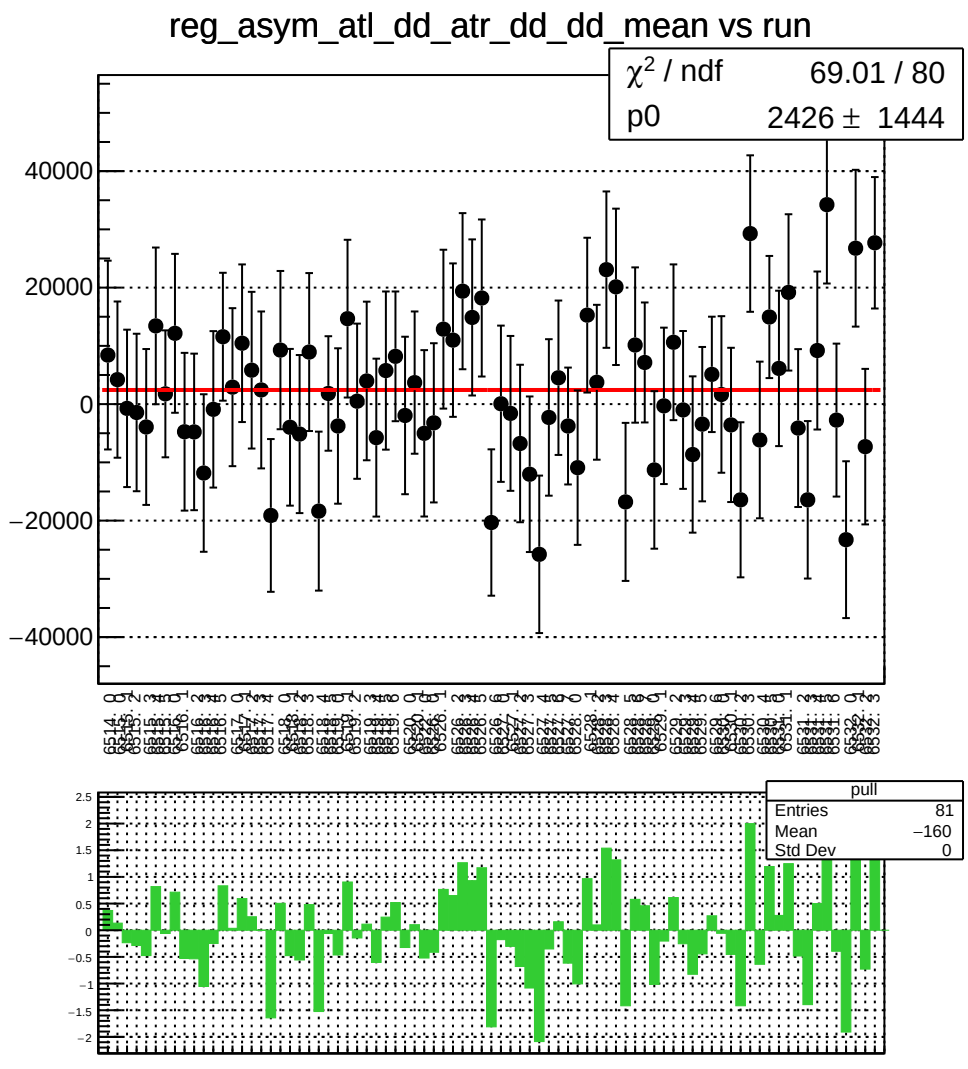

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.62 / 80
p0 −0.02981 ± 0.0276
pull
Entries 81
Mean 12.2
Std Dev 0

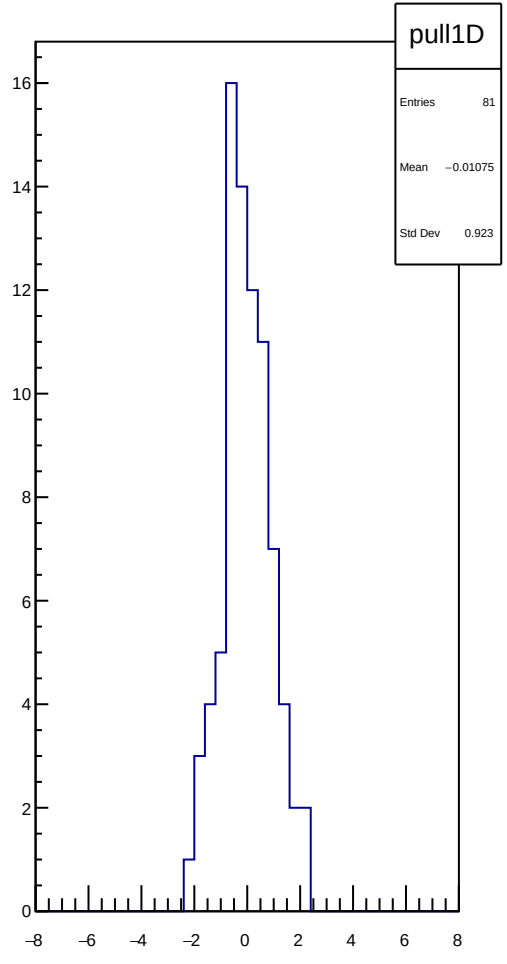

pull1D
Entries 81
Mean 0.1214
Std Dev 0.9902

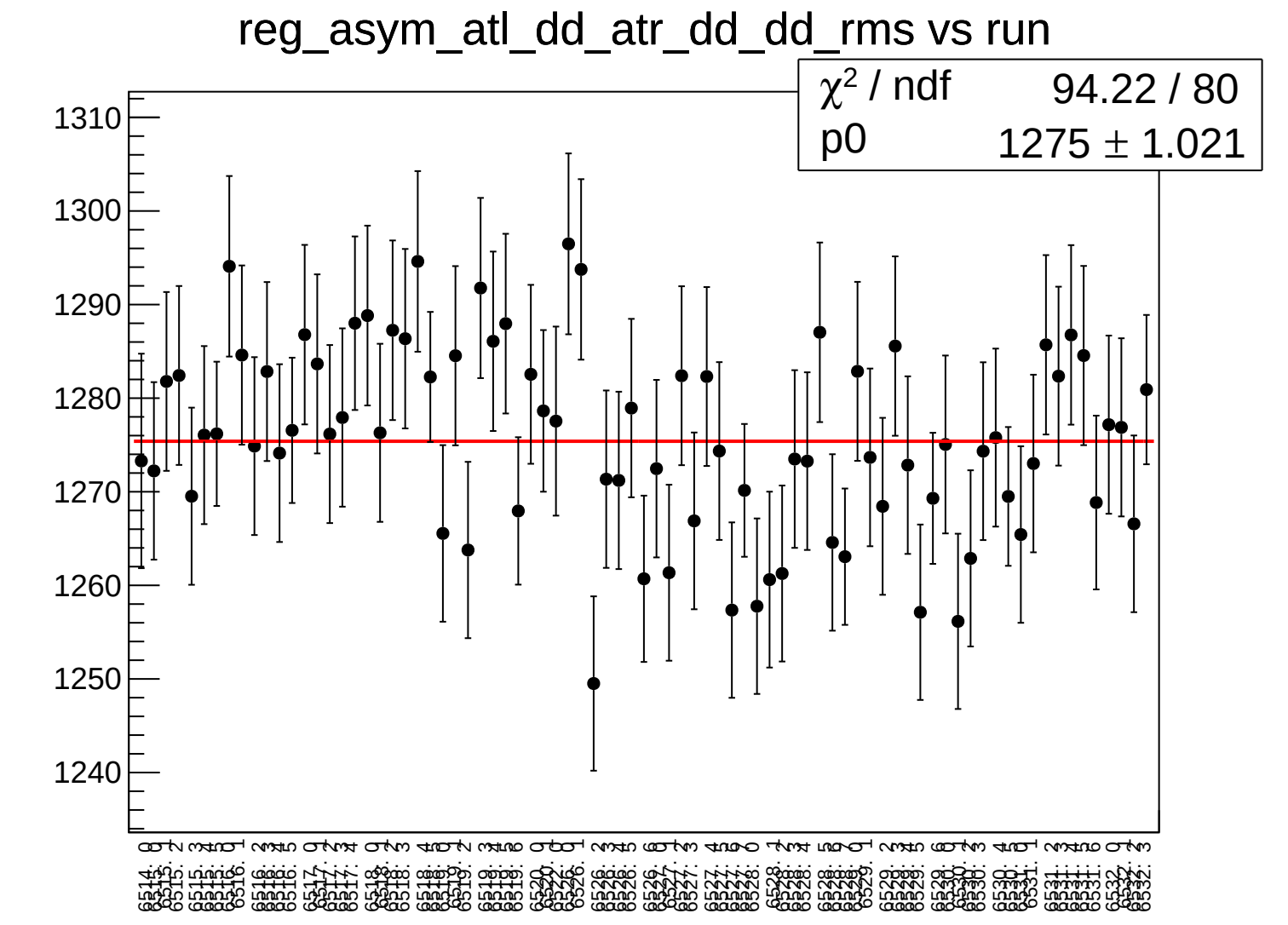

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.299e+05 / 80
p0 22.51 ± 0.01952
80
70
60
50
40
30
20
10

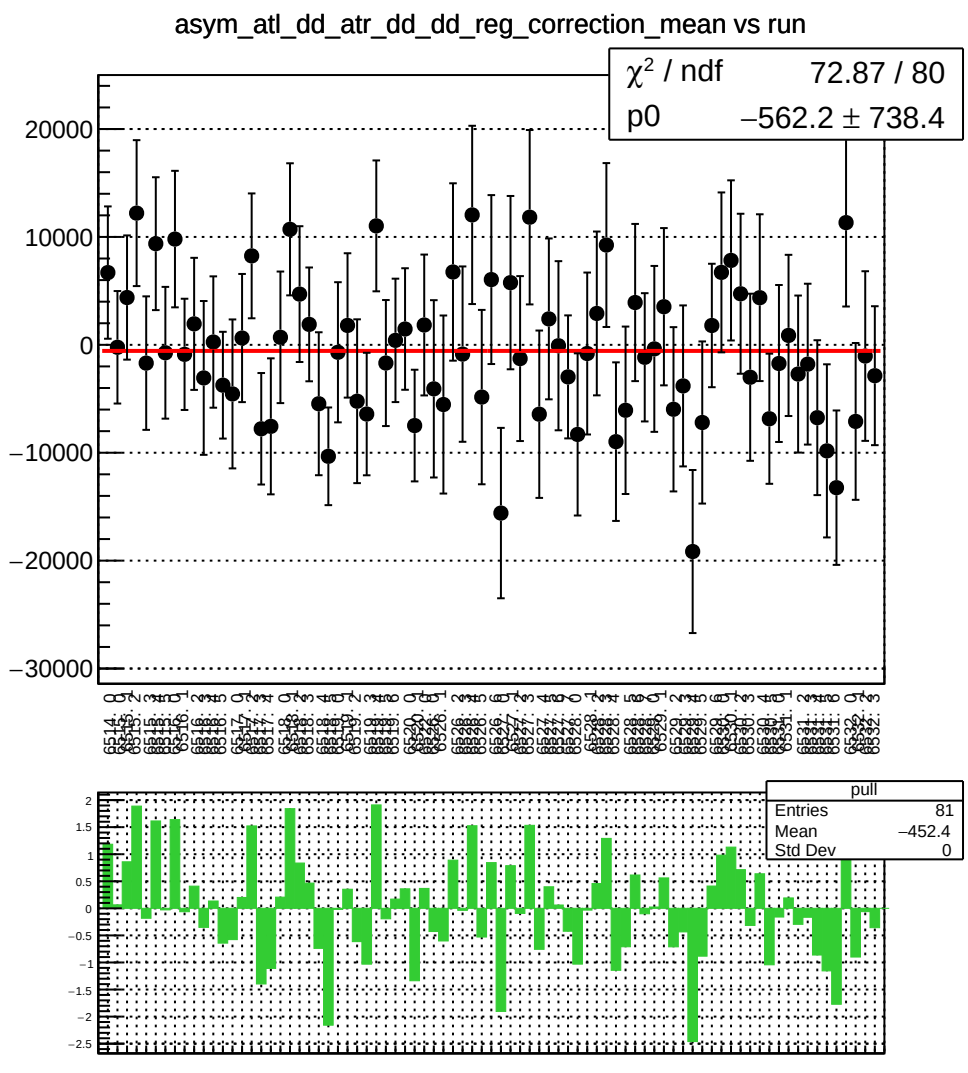

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.54 / 80
p0 2.714e−15 ± 5.486e−15
pull
Entries 81
Mean −74.92
Std Dev 0
pull1D
Entries 81
Mean 0.02591
Std Dev 1.051

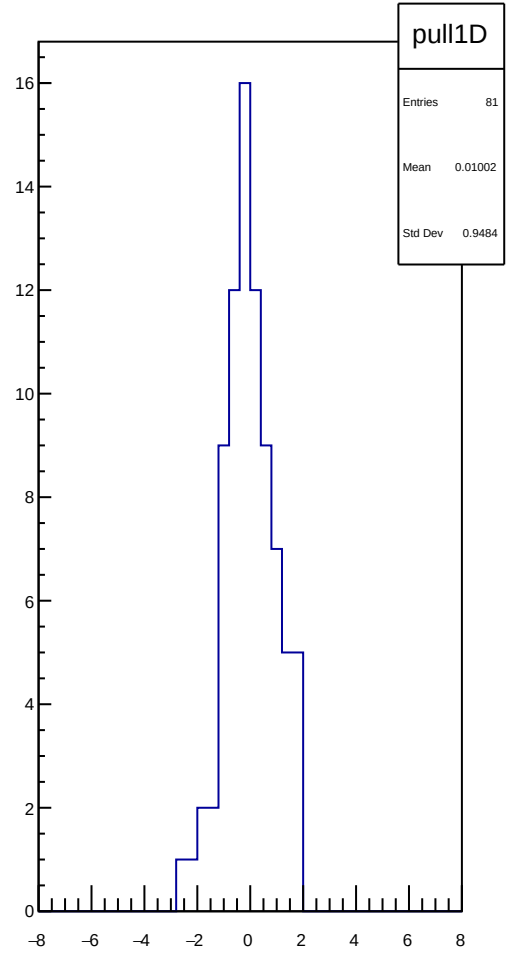

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.826e+05 / 80
p0 4.028e−12 ± 3.879e−15
40
35
30
25
20
15
10
5

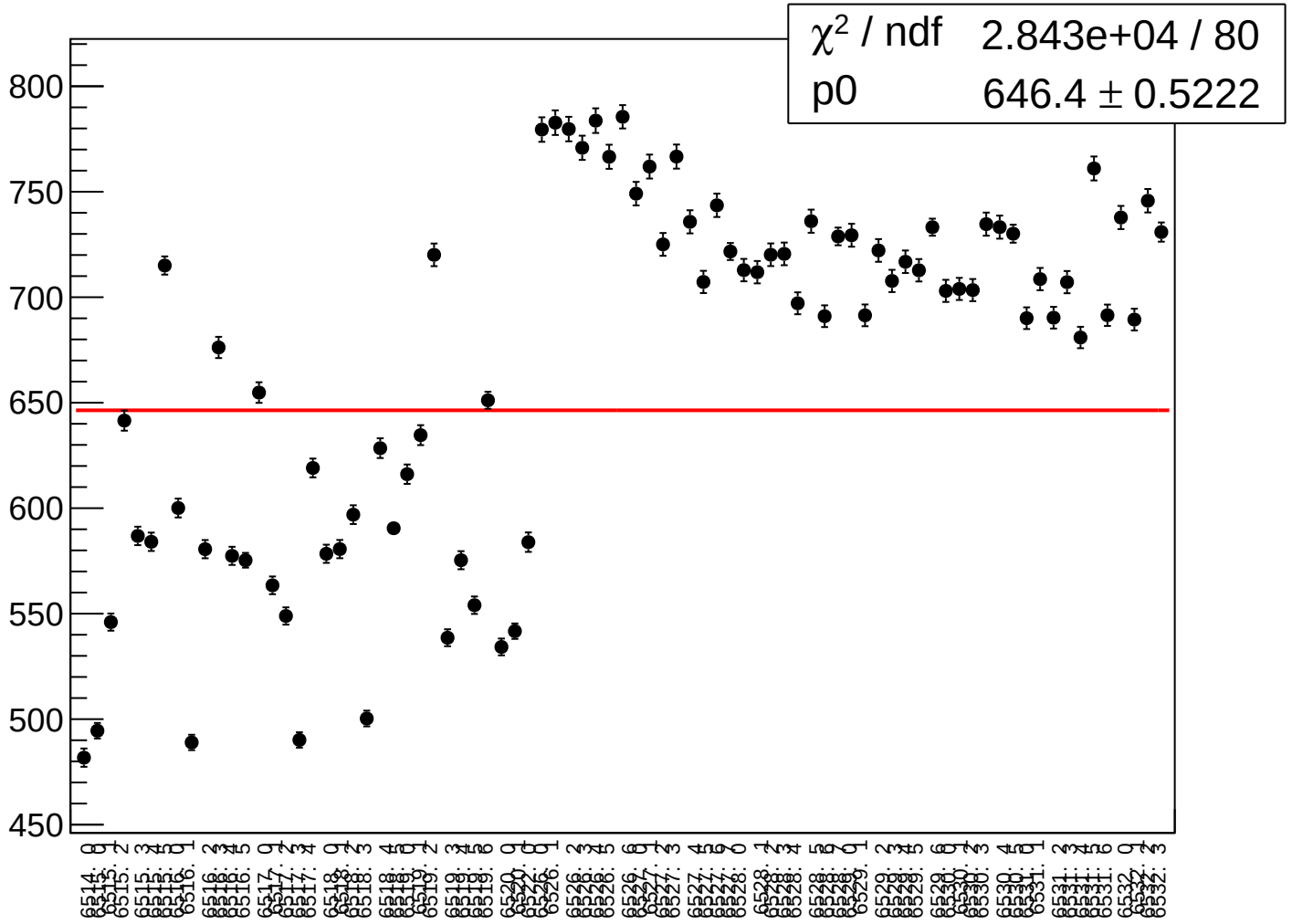

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 69.01 / 80
p0 2426 ± 1444
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −160
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

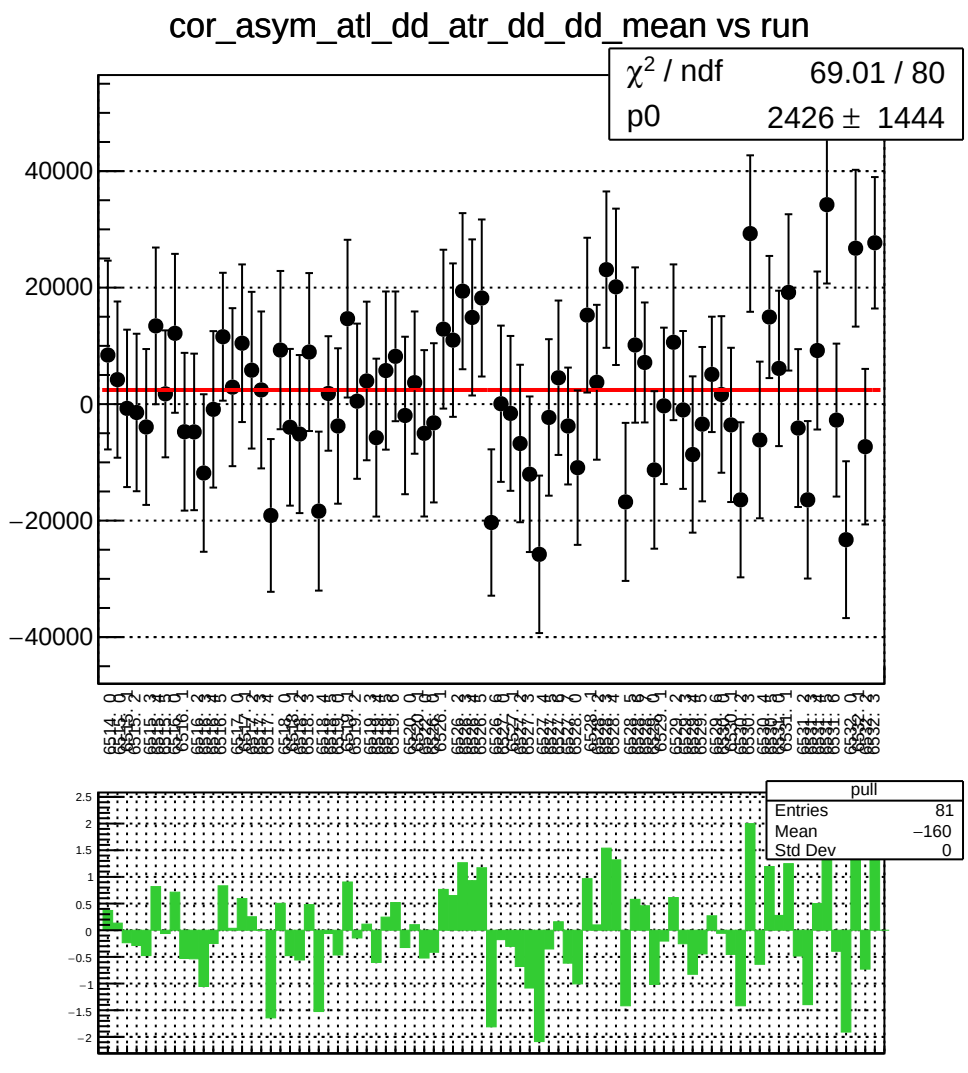

pull1D
Entries 81
Mean −0.01075
Std Dev 0.923
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

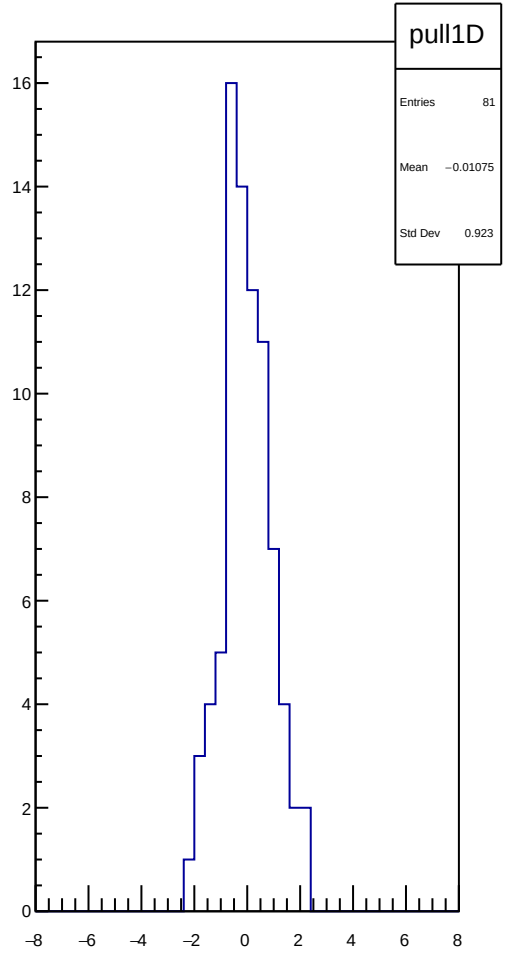

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ^2 / ndf 94.22 / 80
p0 1275 ± 1.021
1310
1300
1290
1280
1270
1260
1250
1240

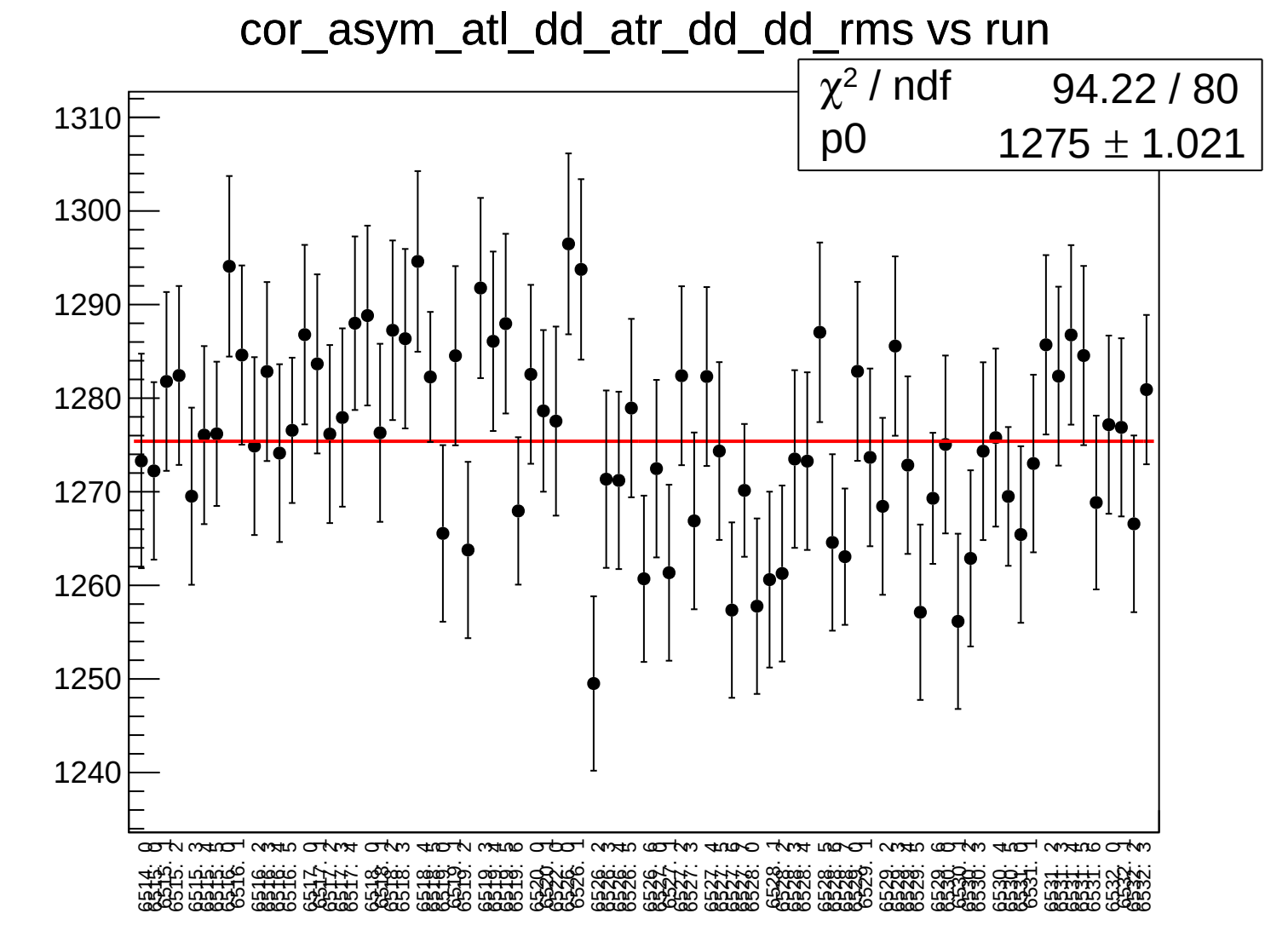

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 72.87 / 80
p0 −562.2 ± 738.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean −452.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

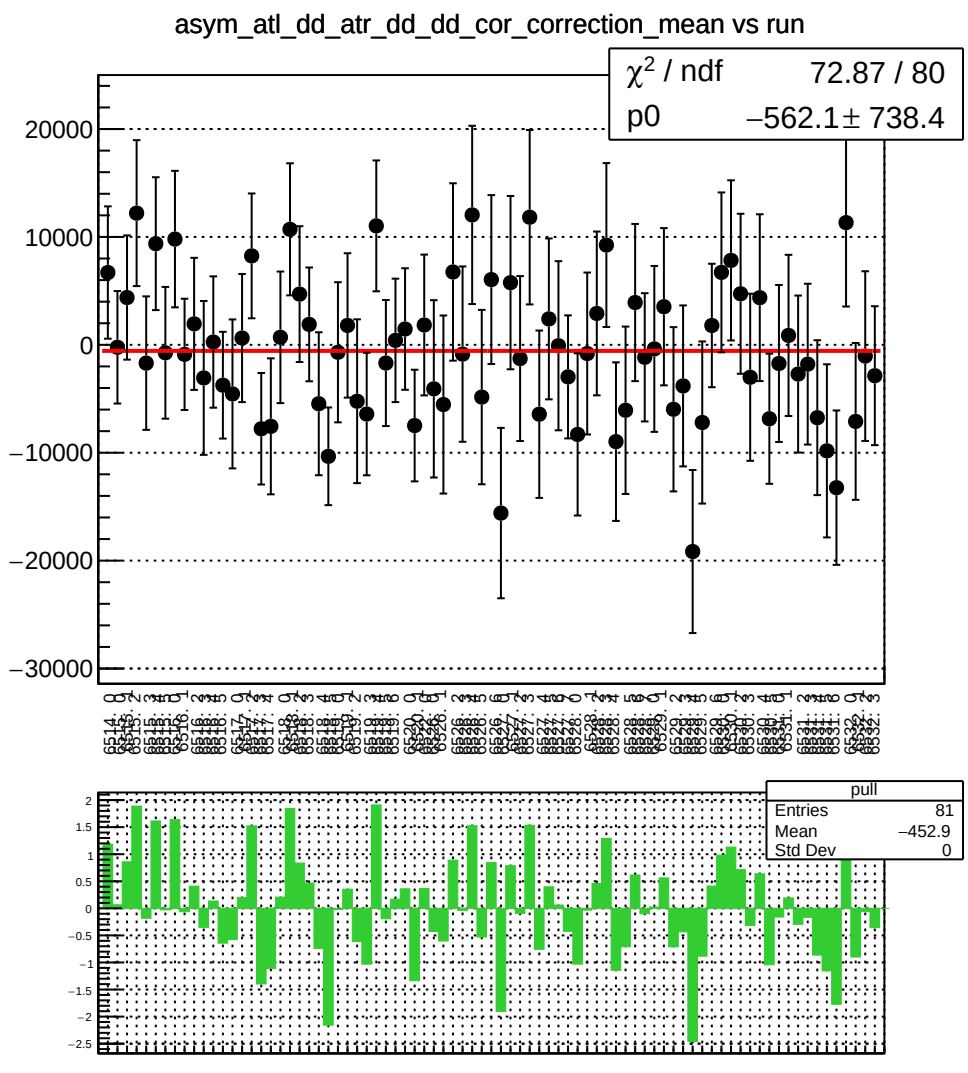

pull1D
Entries 81
Mean 0.01002
Std Dev 0.9484
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

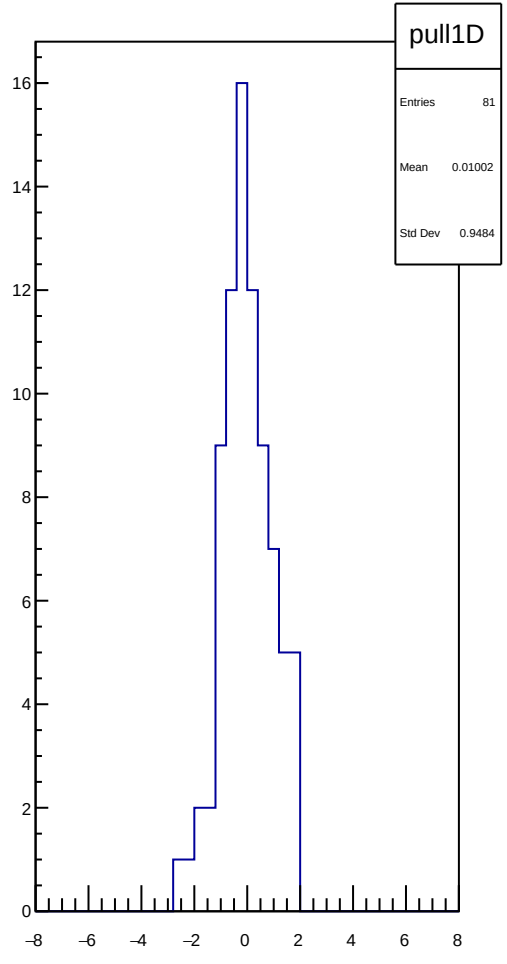

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 2.843e+04 / 80
p0 646.4 ± 0.5222
800
750
700
650
600
550
500
450

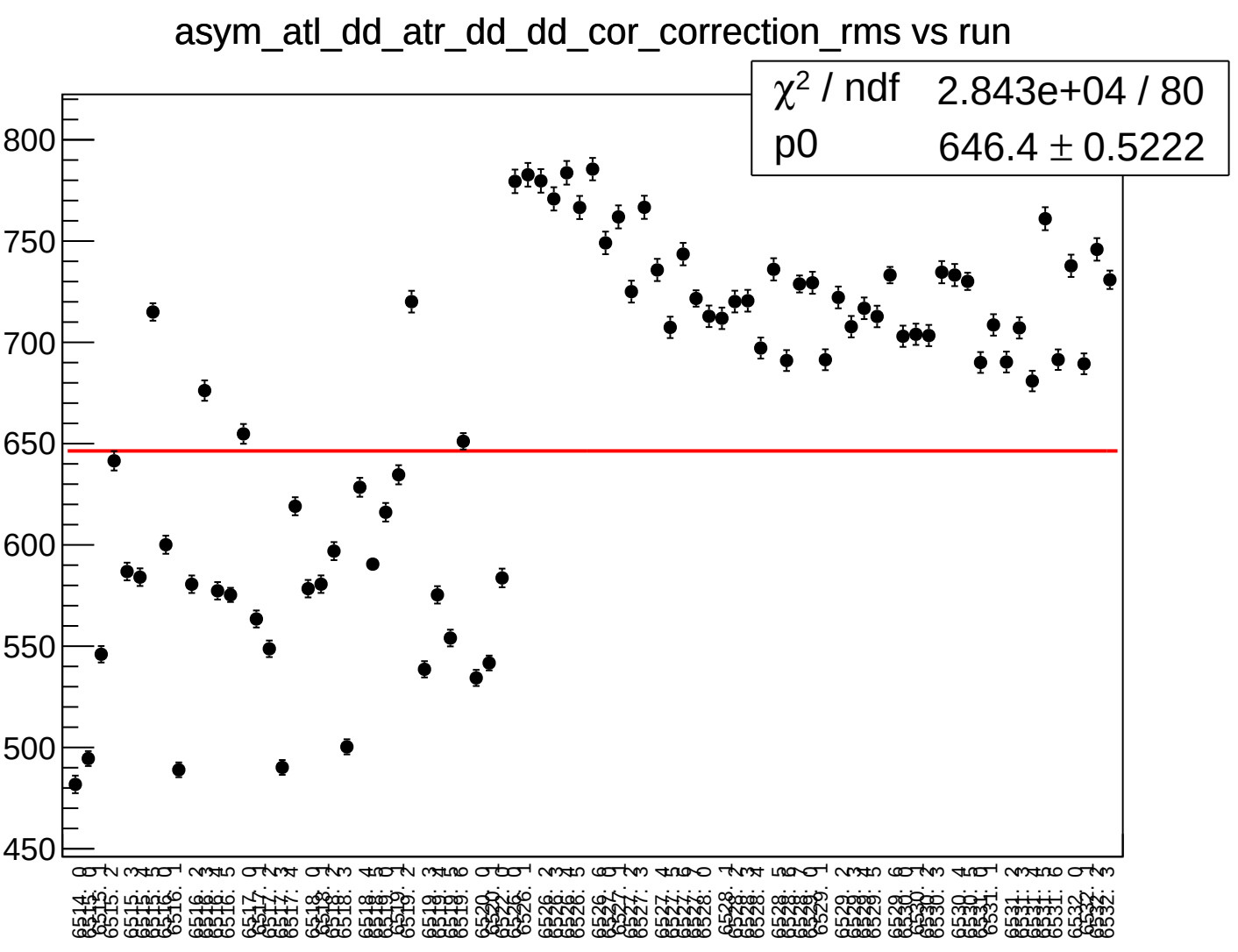

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 69.01 / 80
p0 2426 ± 1444
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −160
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

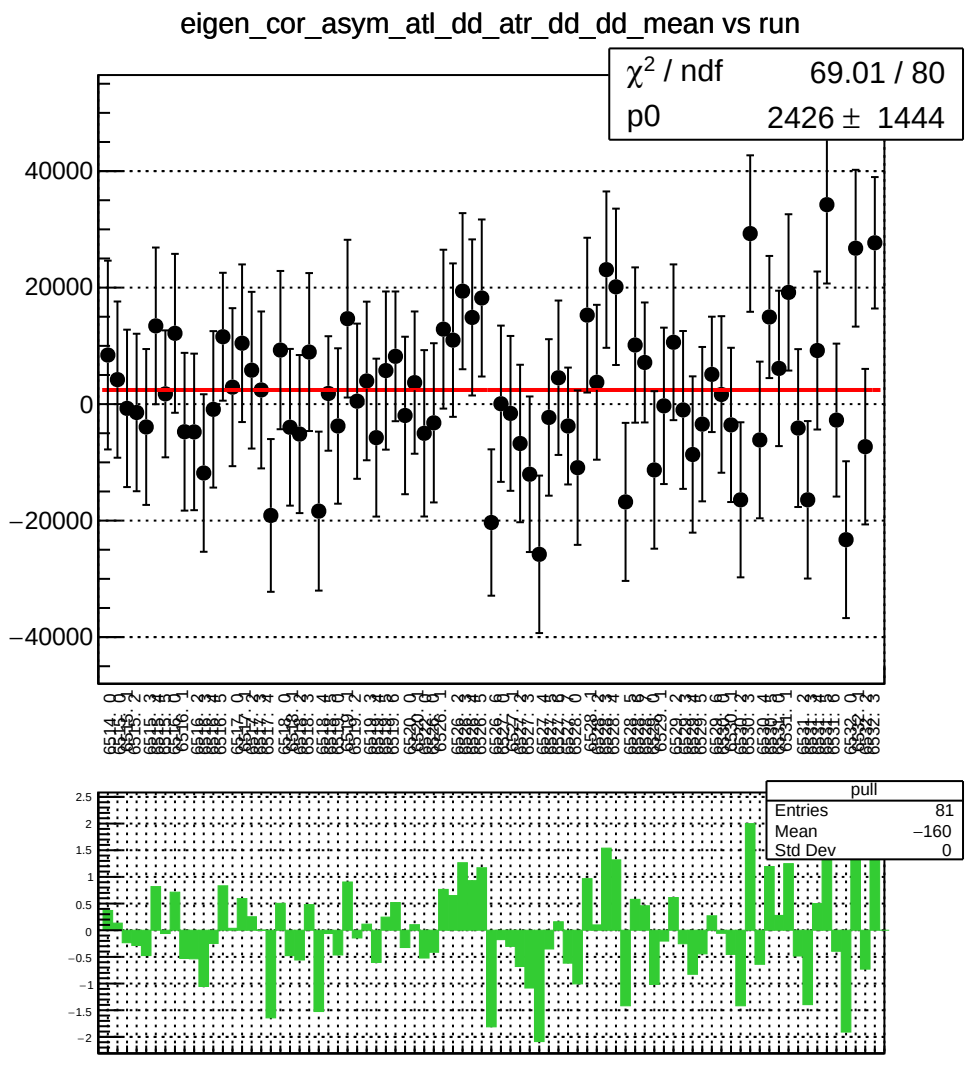

pull1D
Entries 81
Mean −0.01075
Std Dev 0.923
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

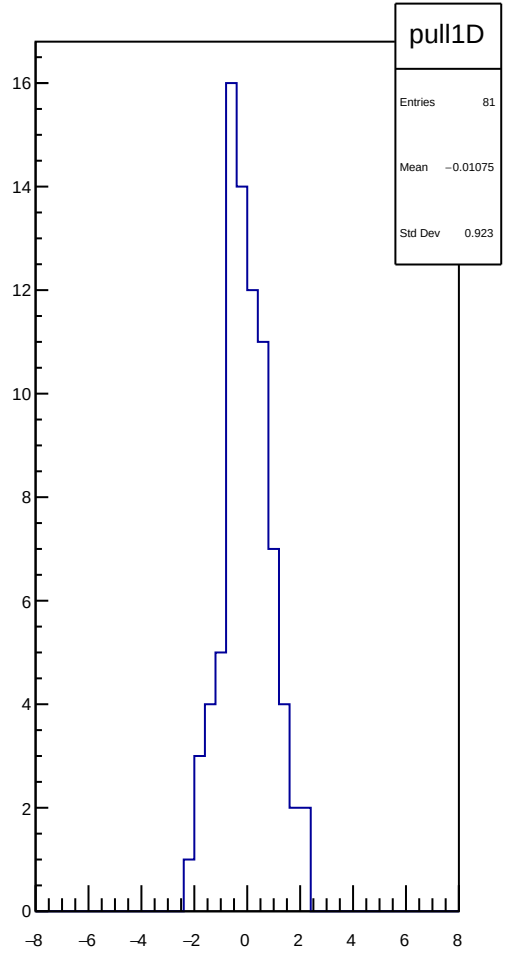

cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 94.22 / 80
p0 1275 ± 1.021
1310
1300
1290
1280
1270
1260
1250
1240

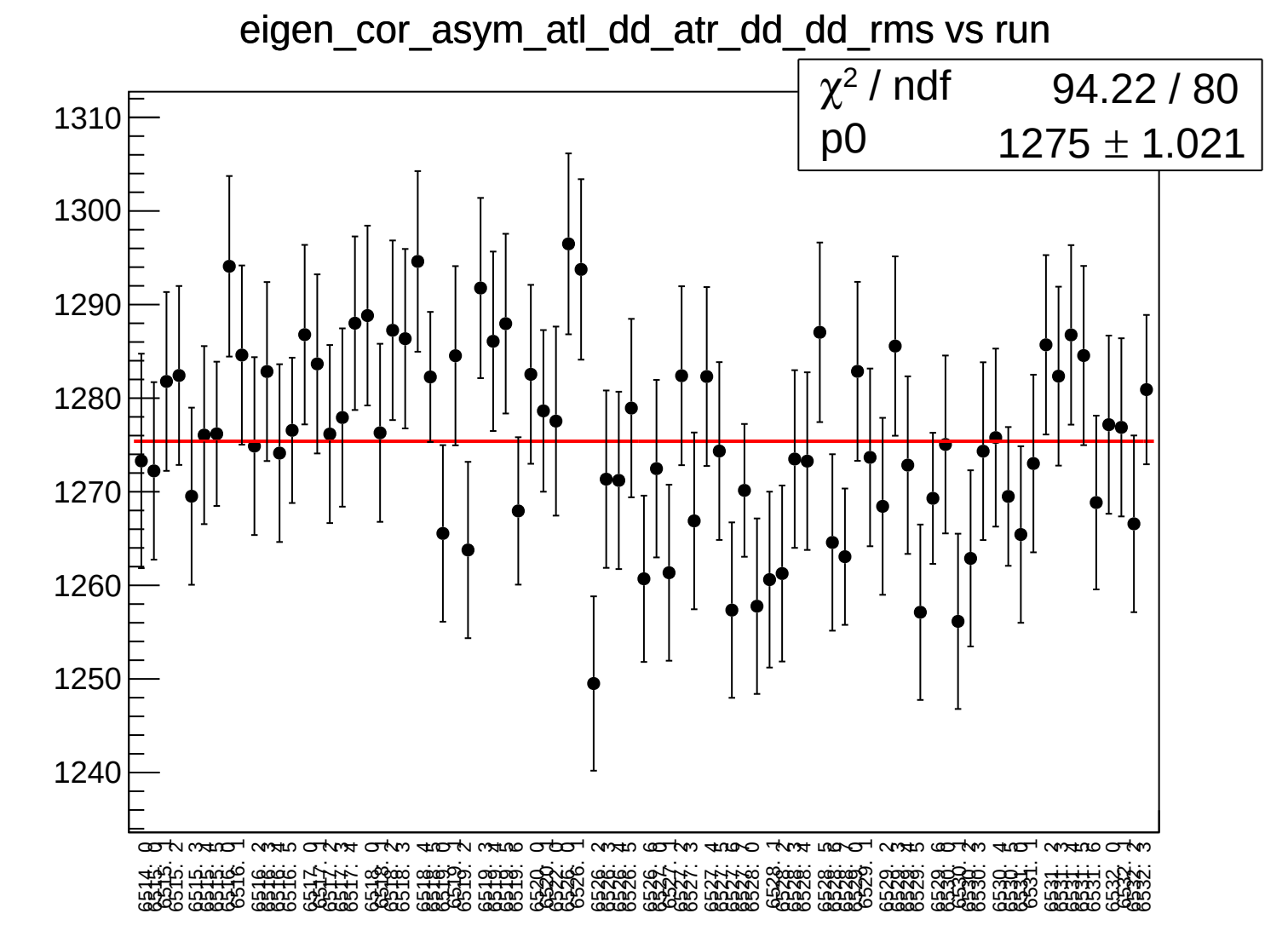

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 72.87 / 80
p0 −562.1± 738.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean −452.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

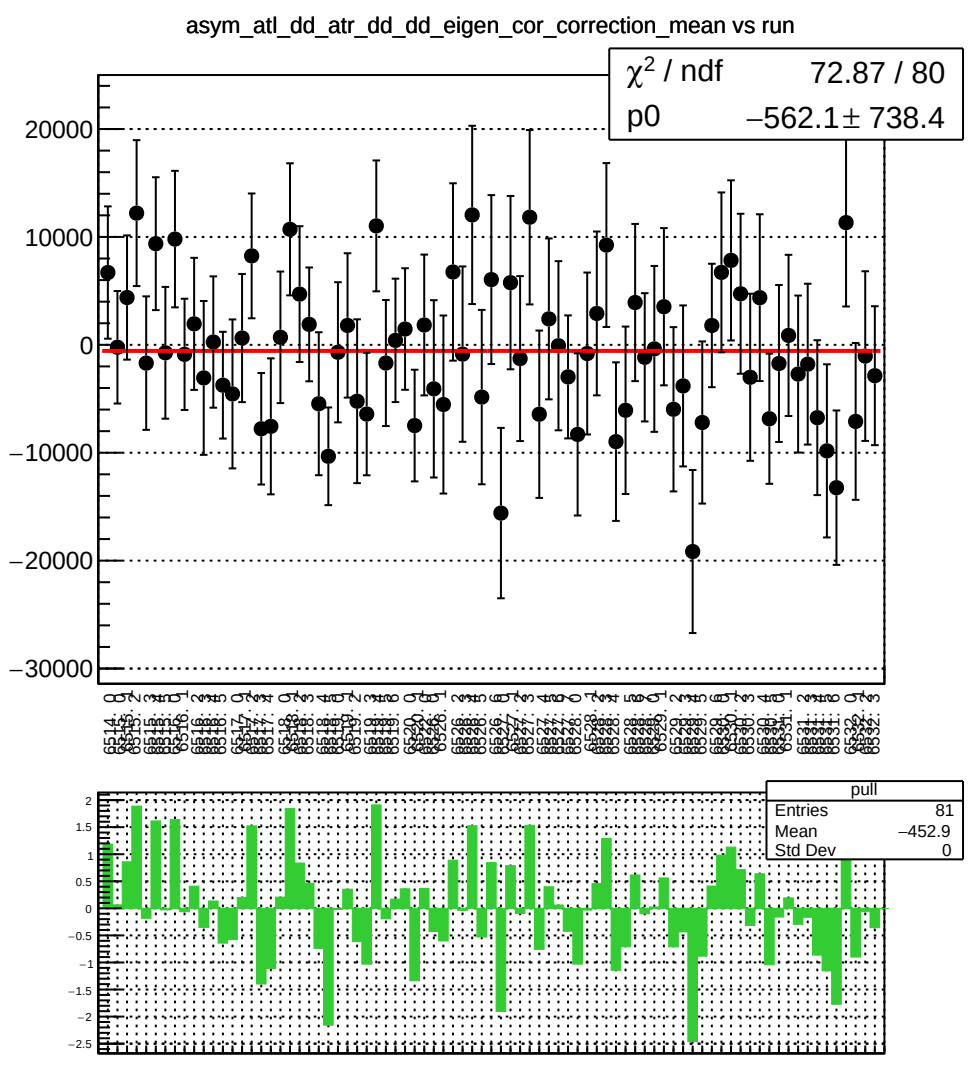

pull1D
Entries 81
Mean 0.01002
Std Dev 0.9484
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

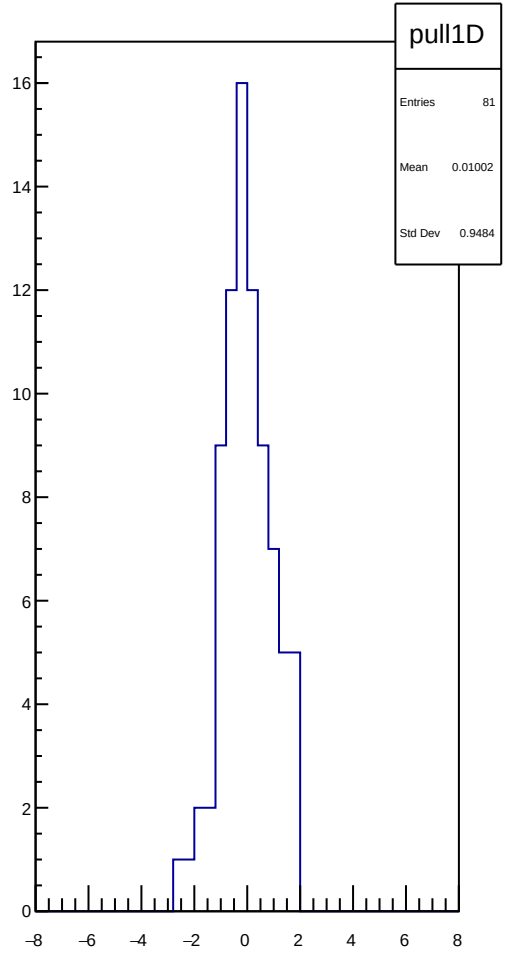

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 2.843e+04 / 80
p0 646.4 ± 0.5222
800
750
700
650
600
550
500
450

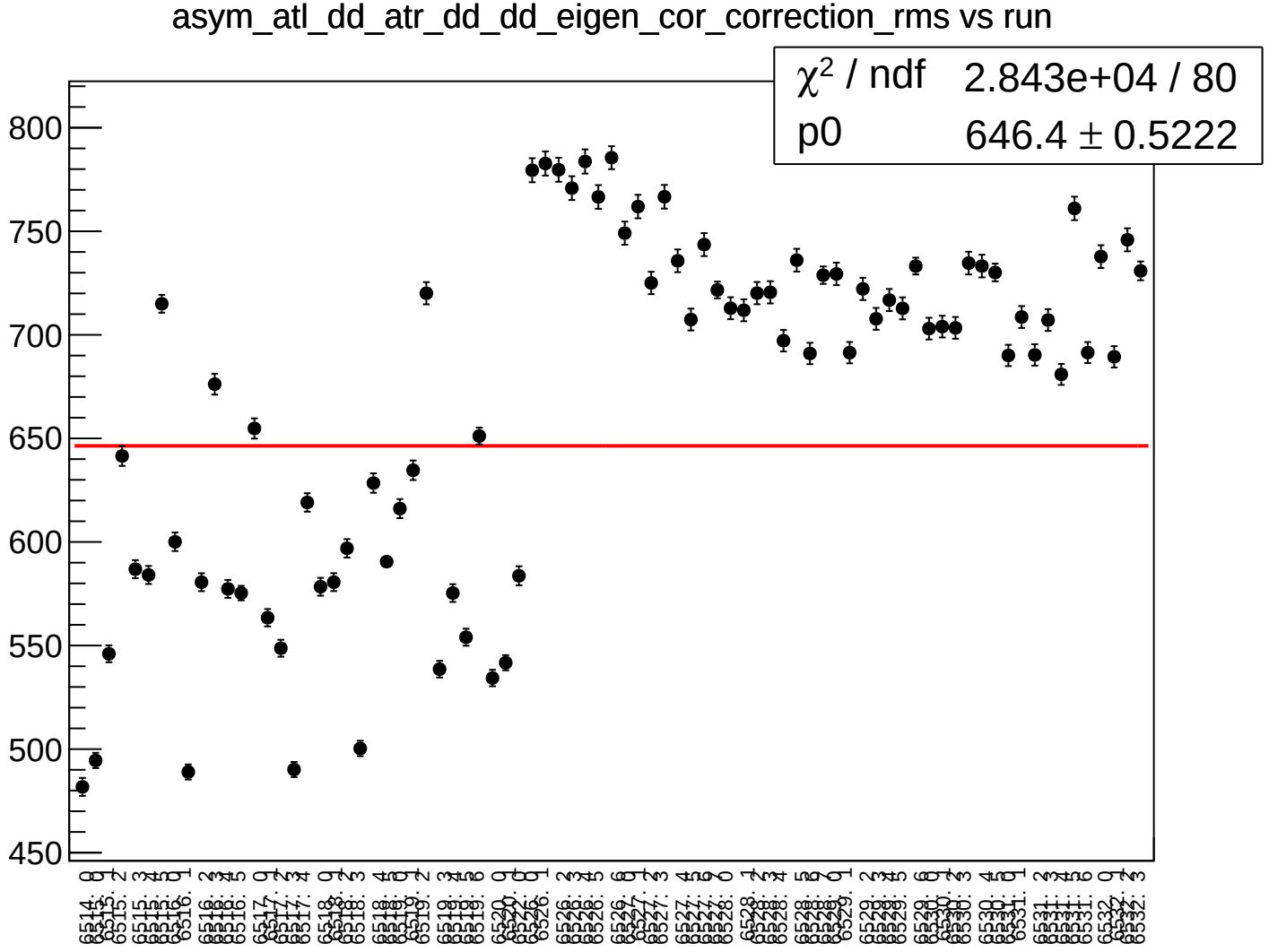

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 69.01 / 80
p0 2426 ± 1444
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −160
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

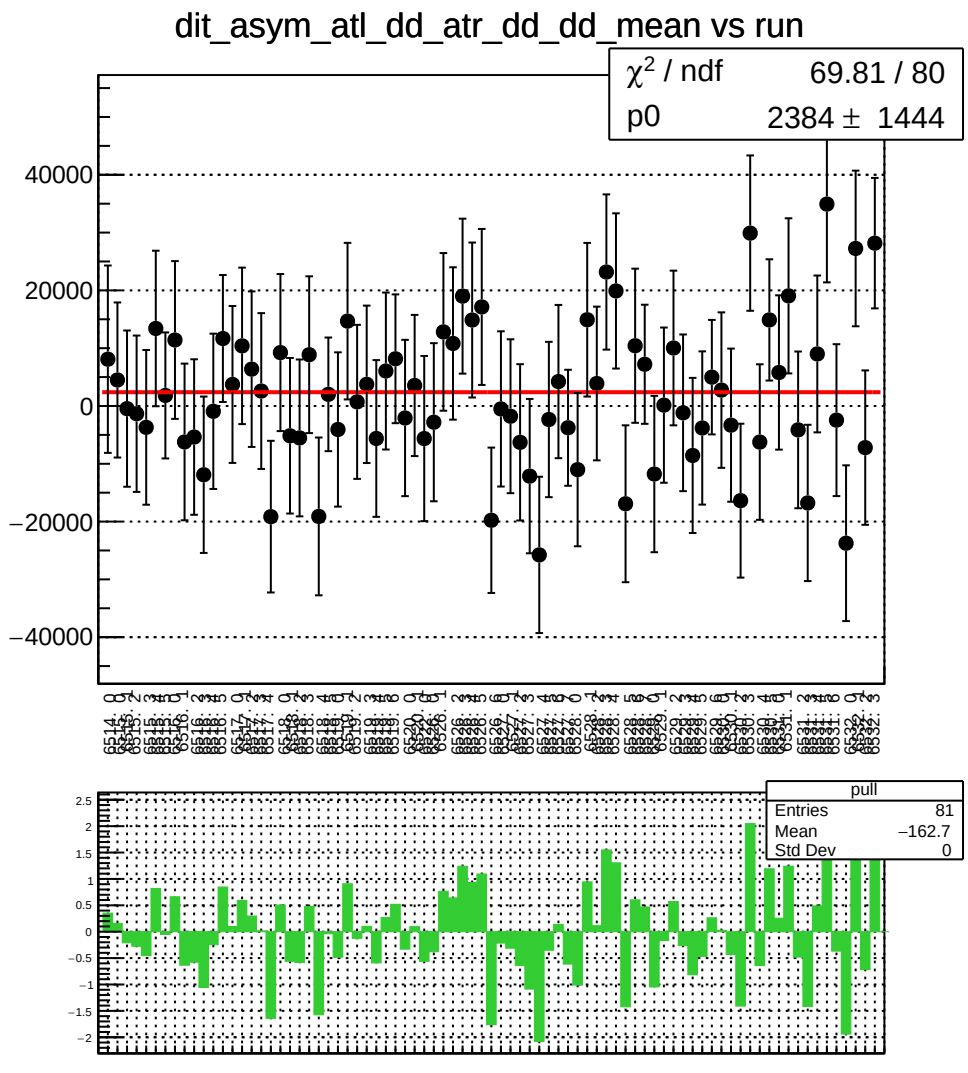

pull1D
Entries 81
Mean −0.01075
Std Dev 0.923
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

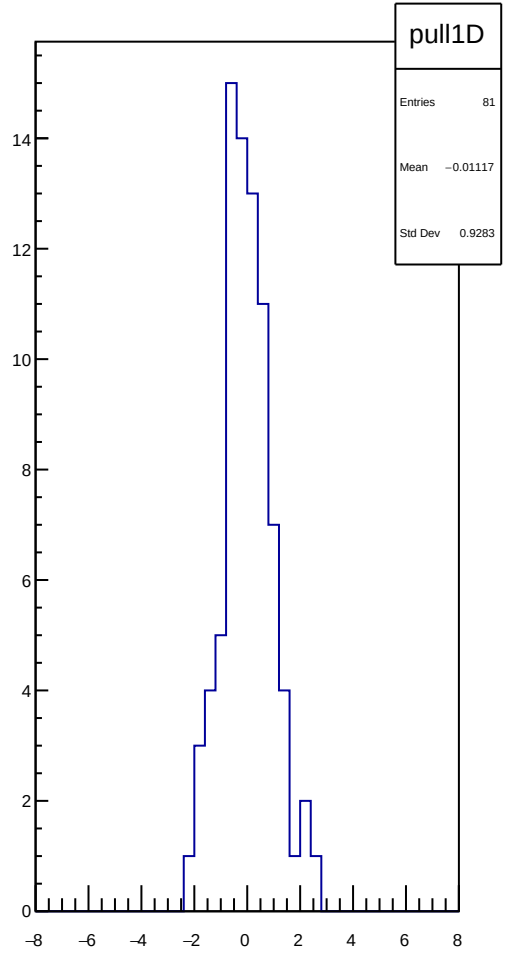

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 94.22 / 80
p0 1275 ± 1.021
1310
1300
1290
1280
1270
1260
1250
1240

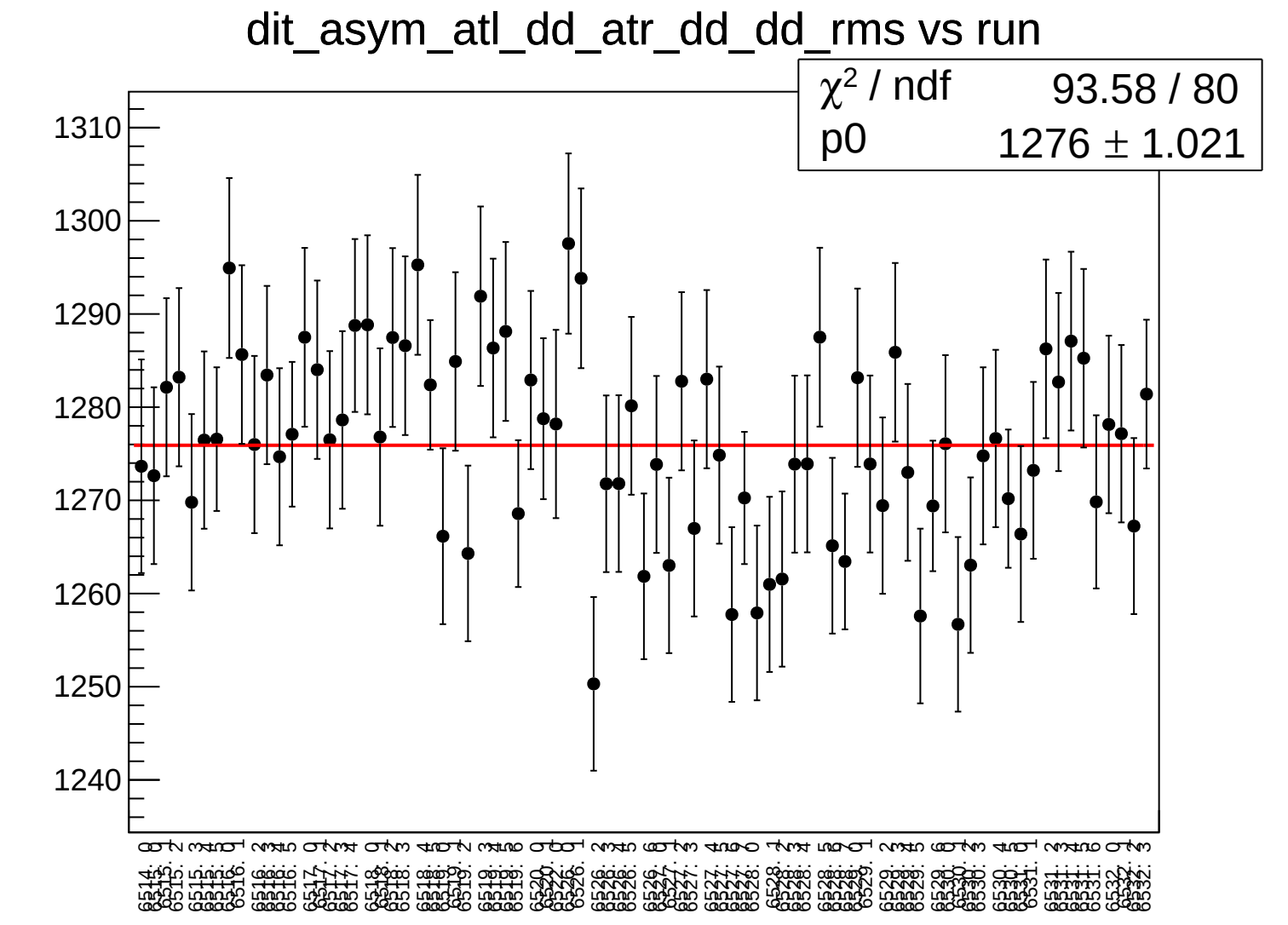

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 72.87 / 80
p0 −562.1± 738.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean −452.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

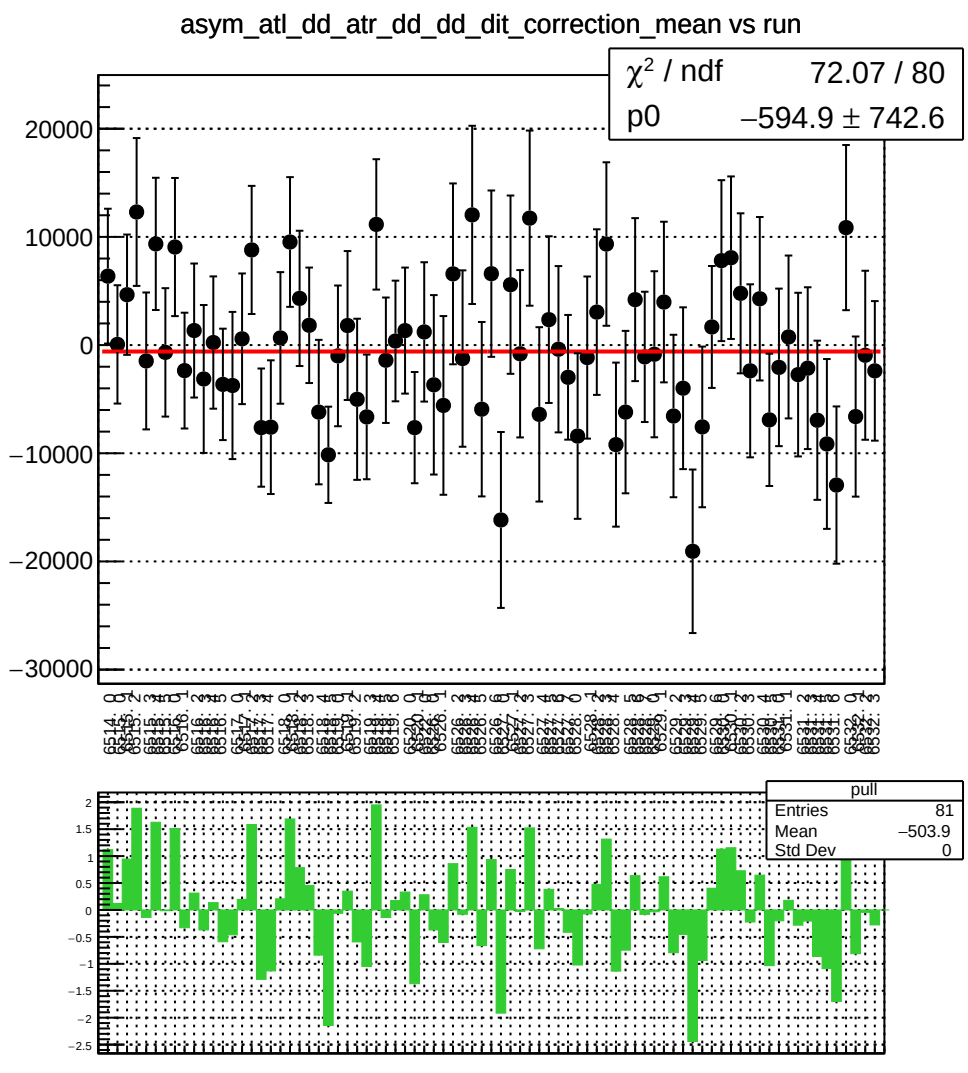

pull1D
Entries 81
Mean 0.01002
Std Dev 0.9484
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

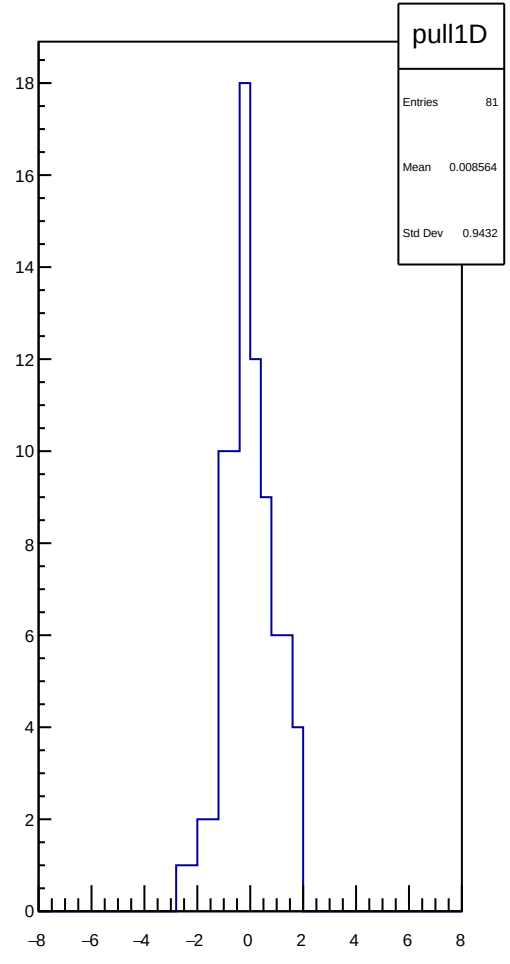

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.843e+04 / 80
p0 646.4 ± 0.5222
800
750
700
650
600
550
500
450

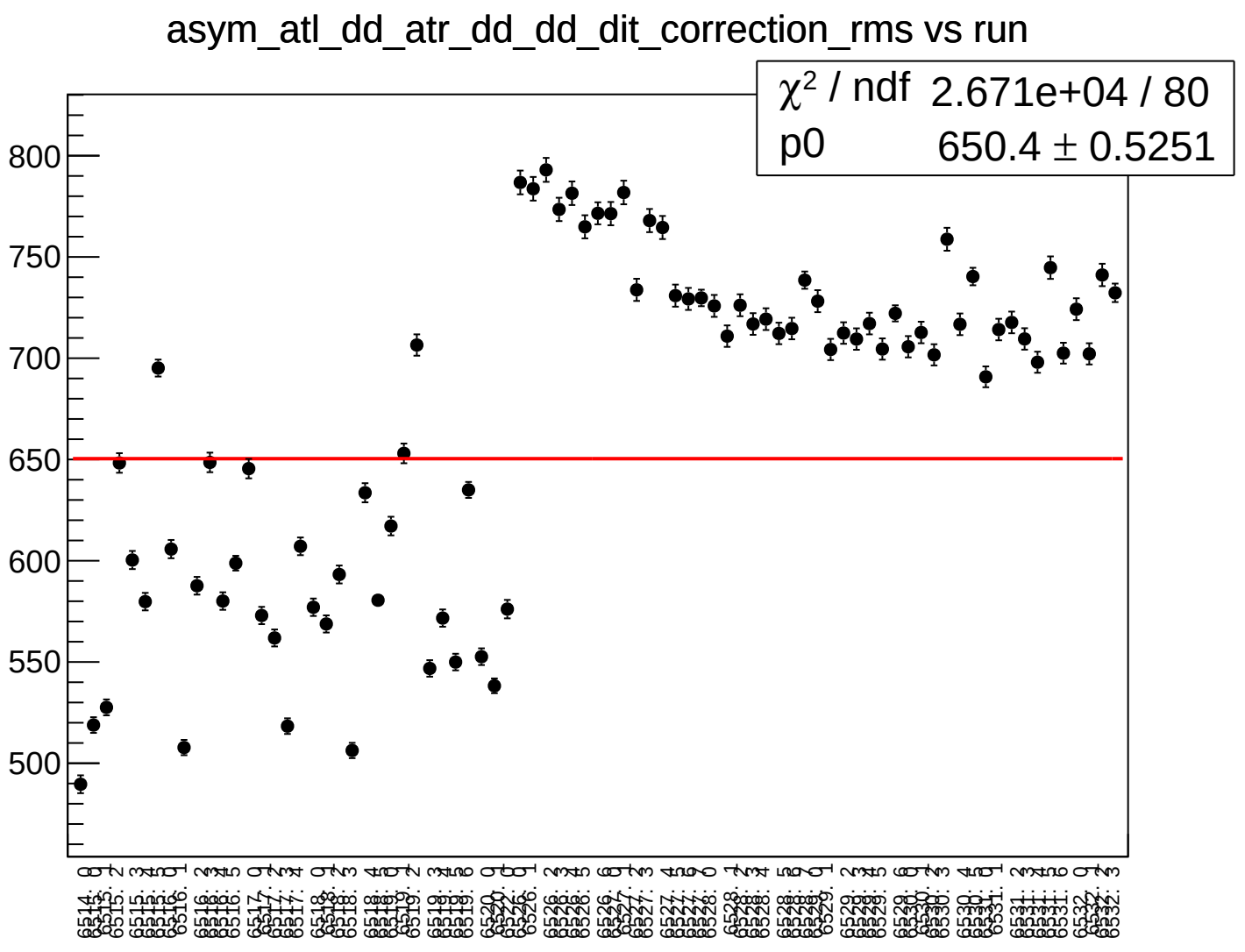

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 69.81 / 80
p0 2384 ± 1444
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −162.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

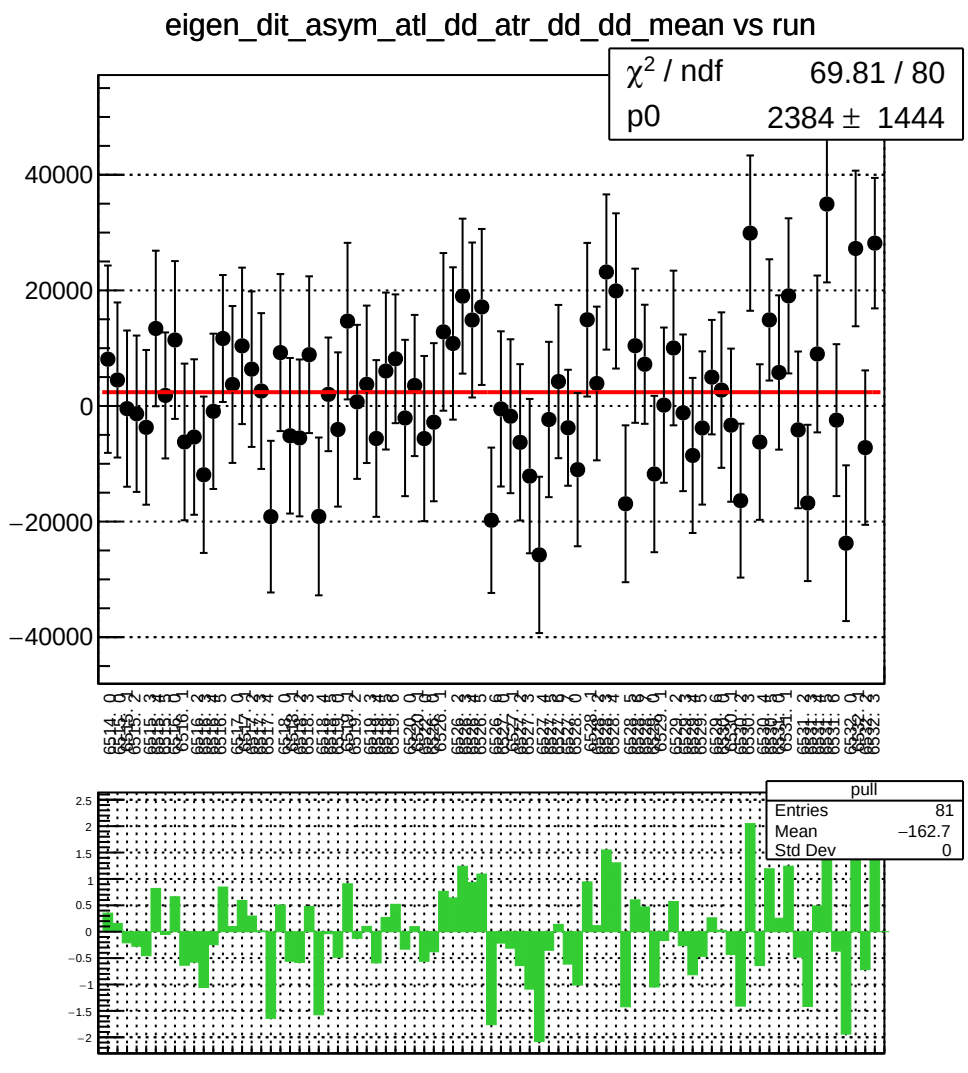

pull1D
Entries 81
Mean −0.01117
Std Dev 0.9283
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

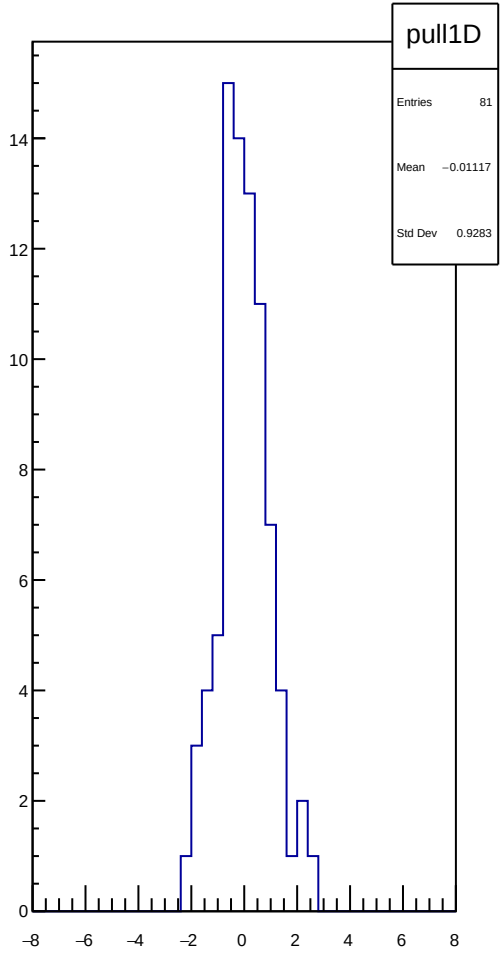

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ^2 / ndf 93.58 / 80
p0 1276 ± 1.021
1310
1300
1290
1280
1270
1260
1250
1240

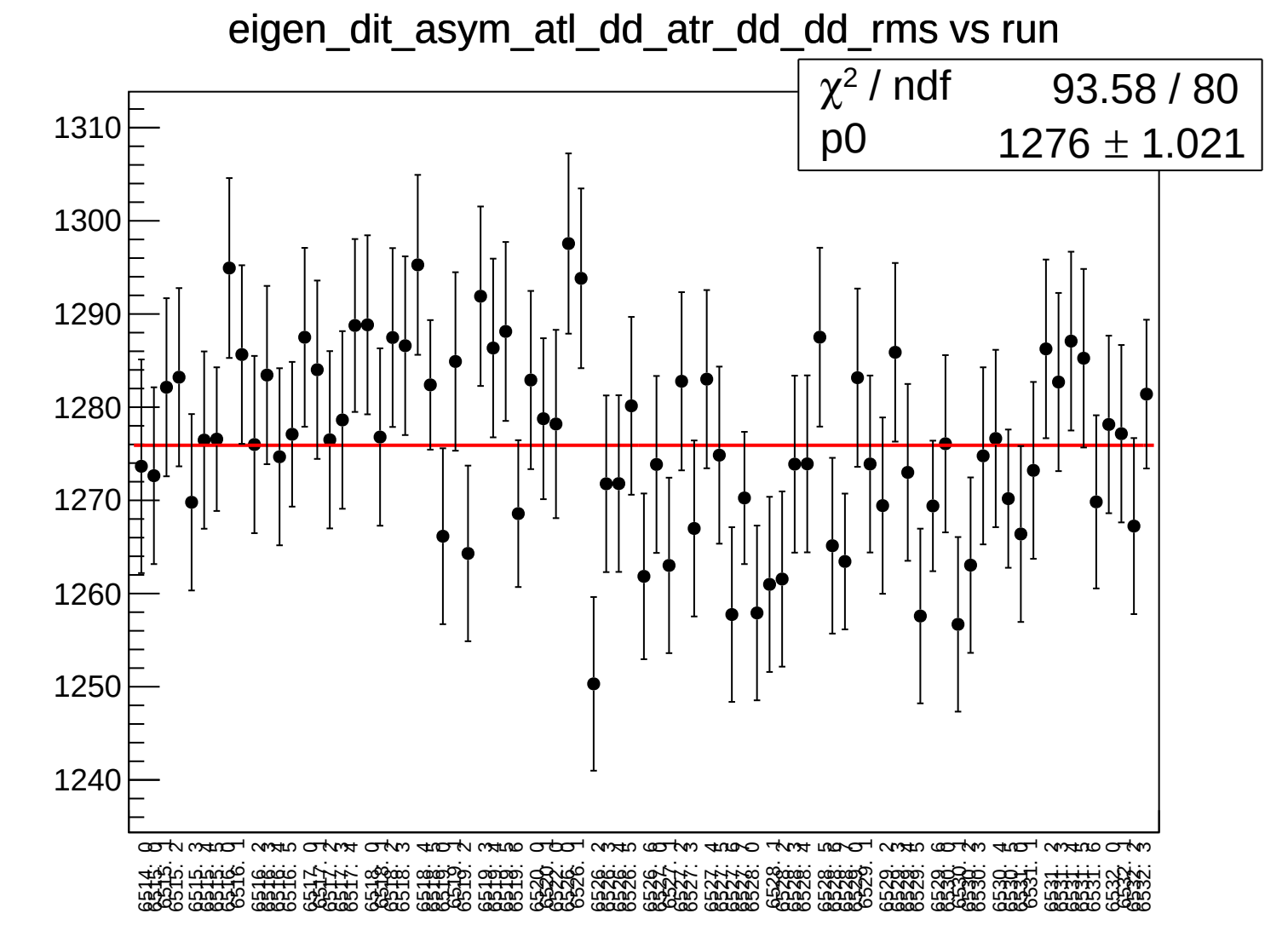

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 72.07 / 80
p0 −594.9 ± 742.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean −503.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

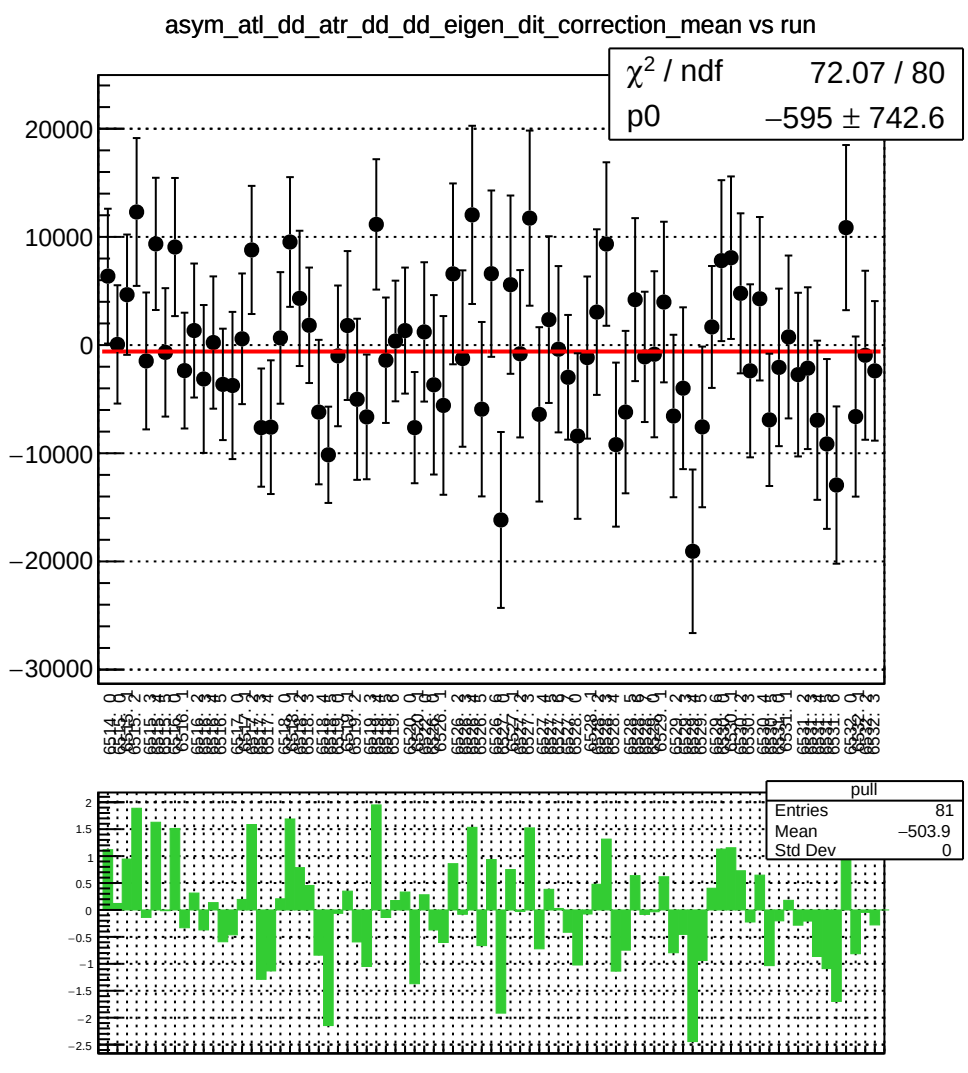

pull1D
Entries 81
Mean 0.008564
Std Dev 0.9432
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

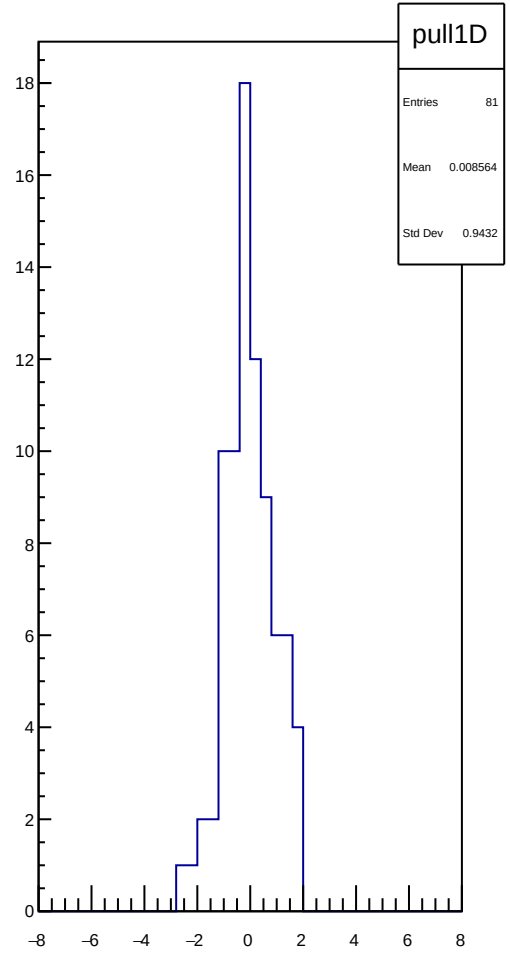

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 2.671e+04 / 80
p0 650.4 ± 0.5251
800
750
700
650
600
550
500

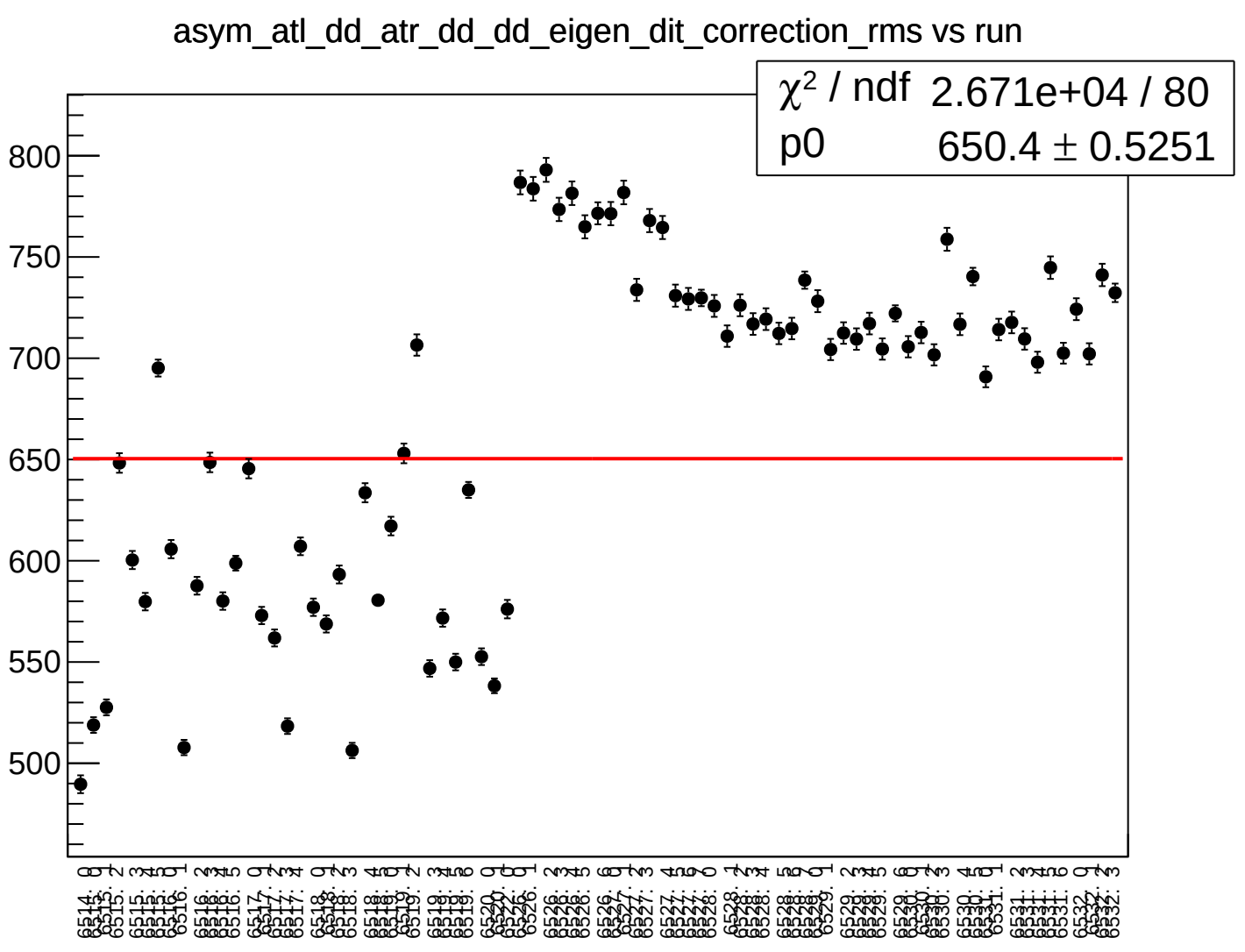

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 69.81 / 80
p0 2384 ± 1444
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −162.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

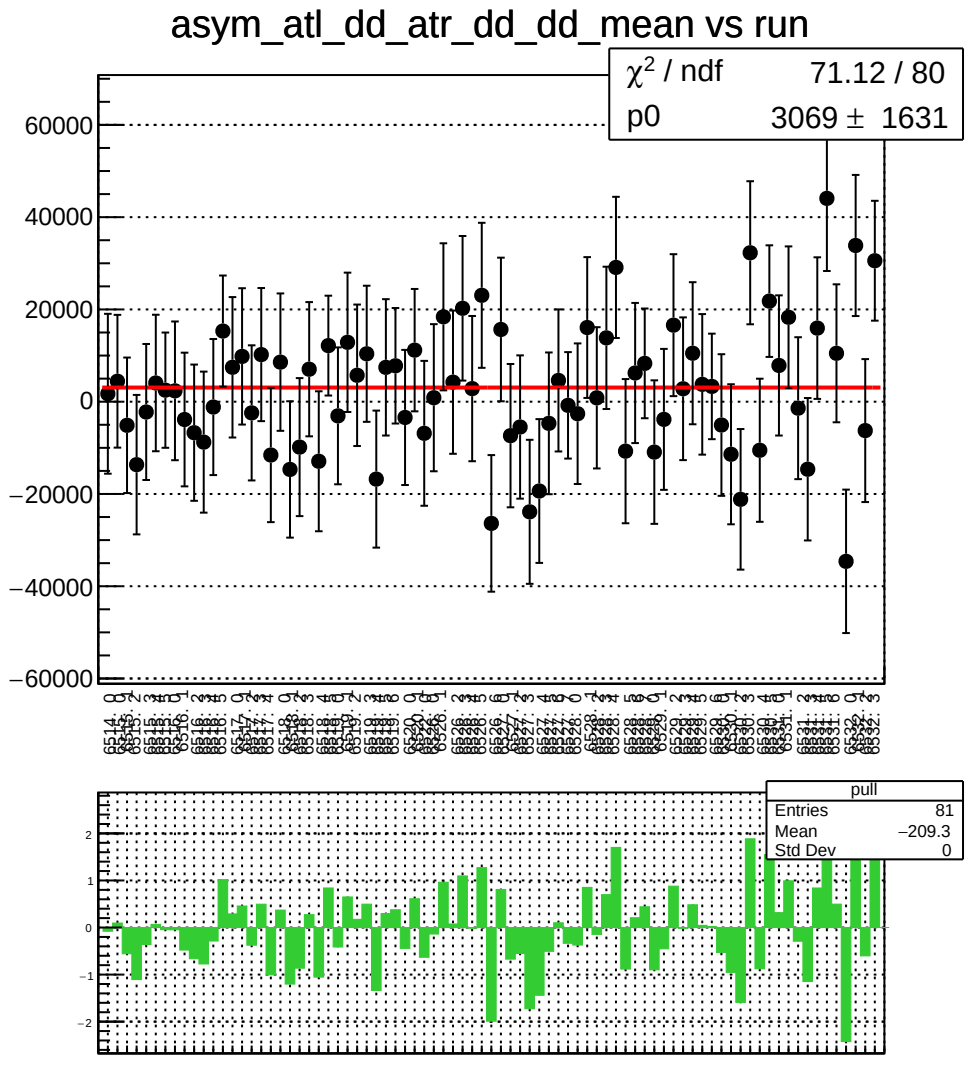

pull1D
Entries 81
Mean −0.01117
Std Dev 0.9283
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

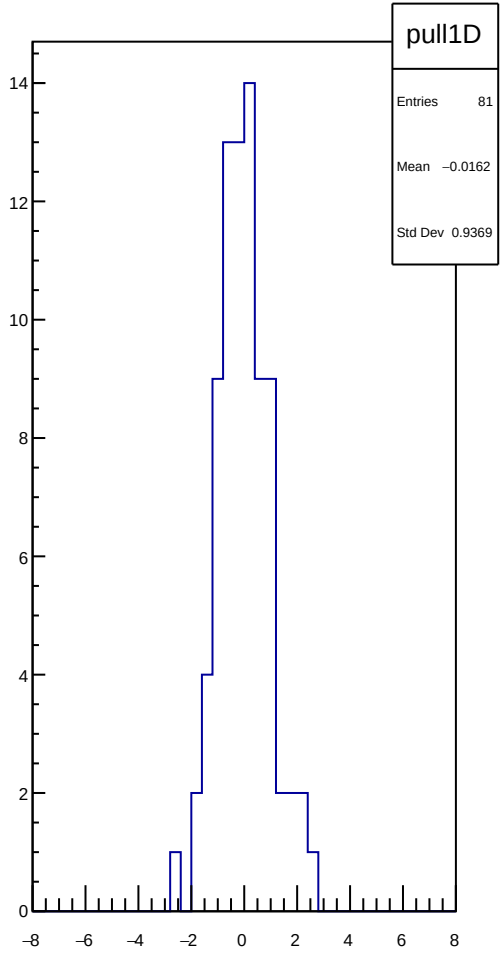

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ^2 / ndf 93.58 / 80
p0 1276 ± 1.021
1310
1300
1290
1280
1270
1260
1250
1240

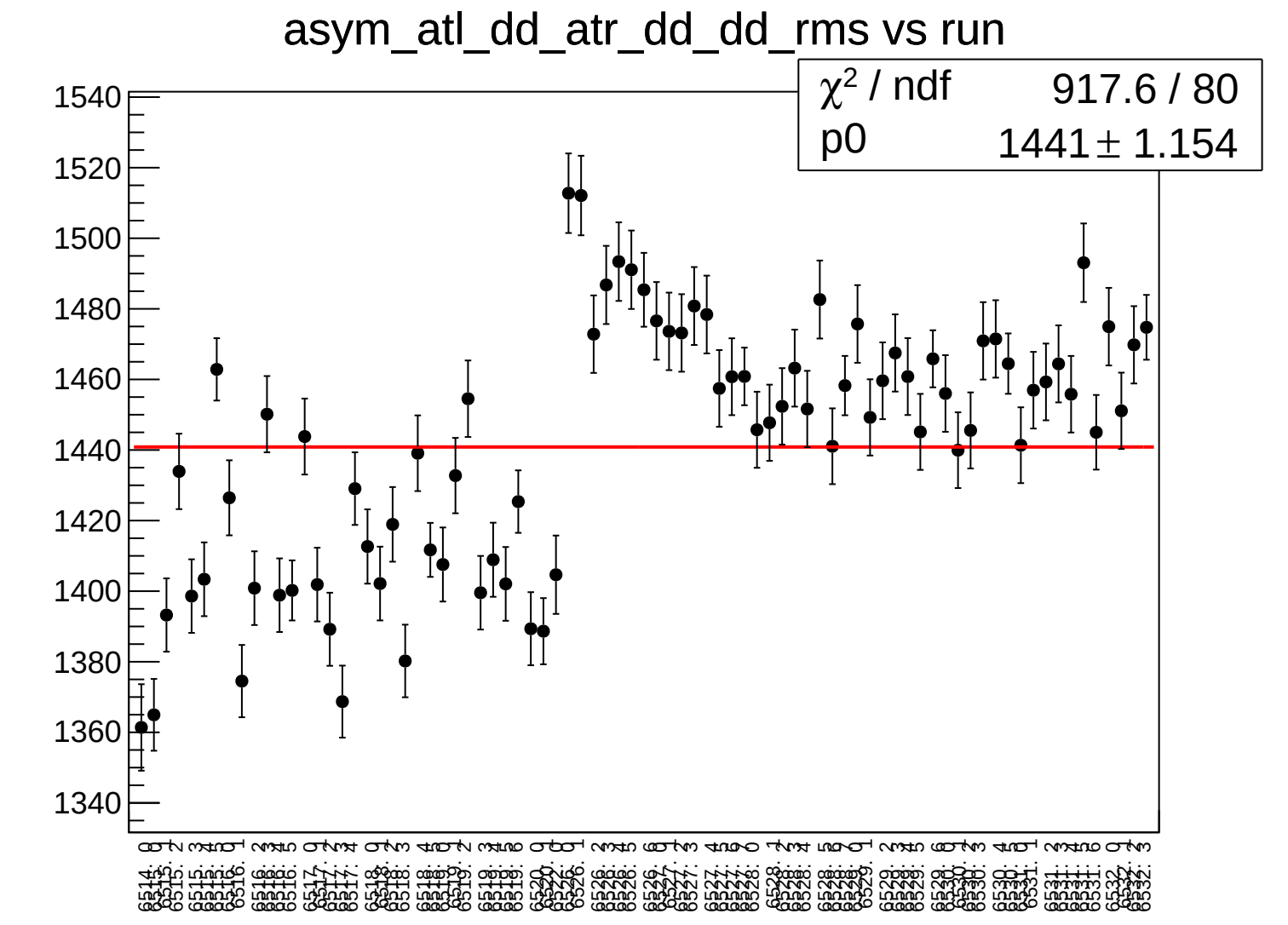

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 72.07 / 80
p0 −595 ± 742.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean −503.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

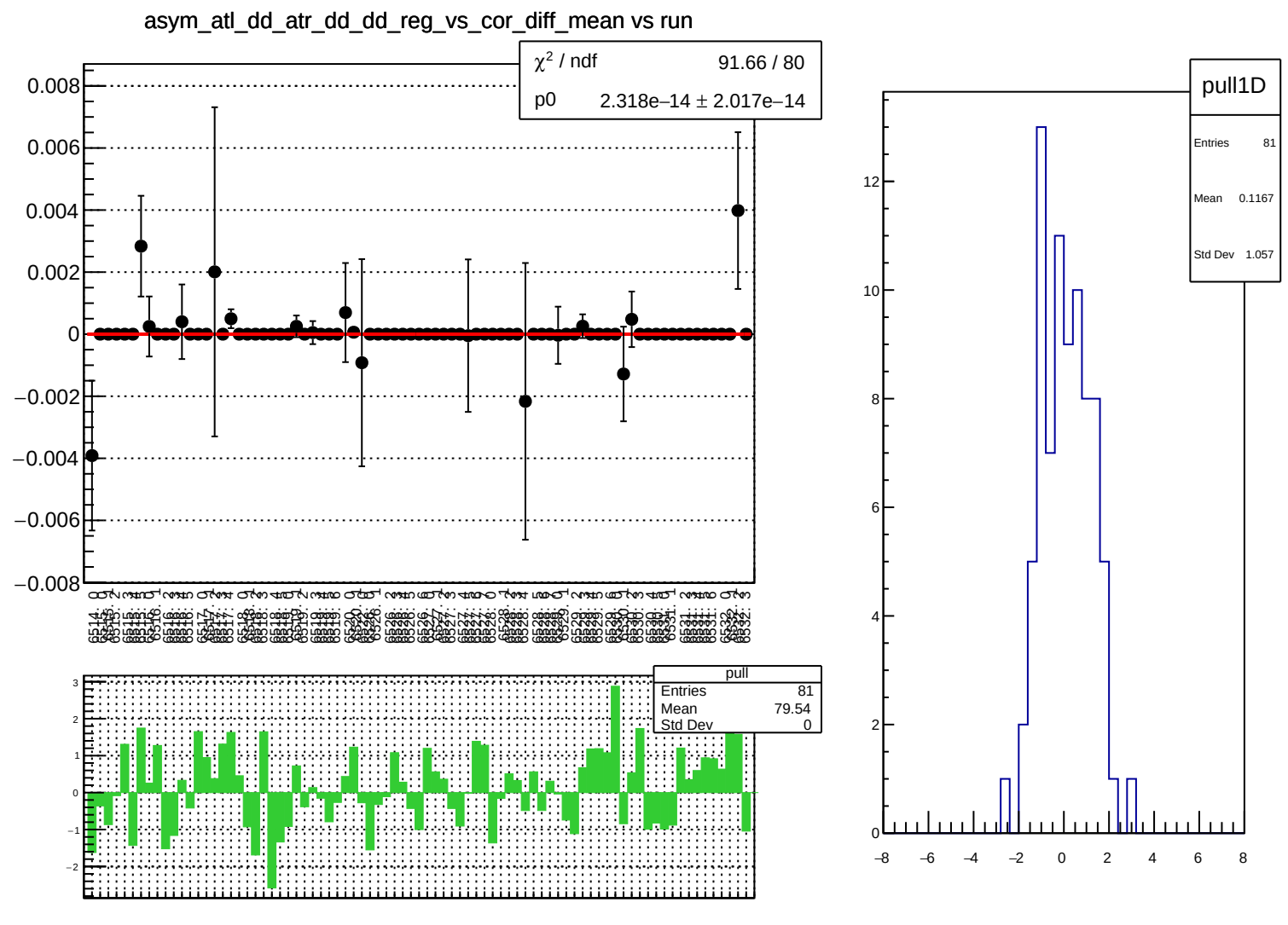

pull1D
Entries 81
Mean 0.008564
Std Dev 0.9432
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

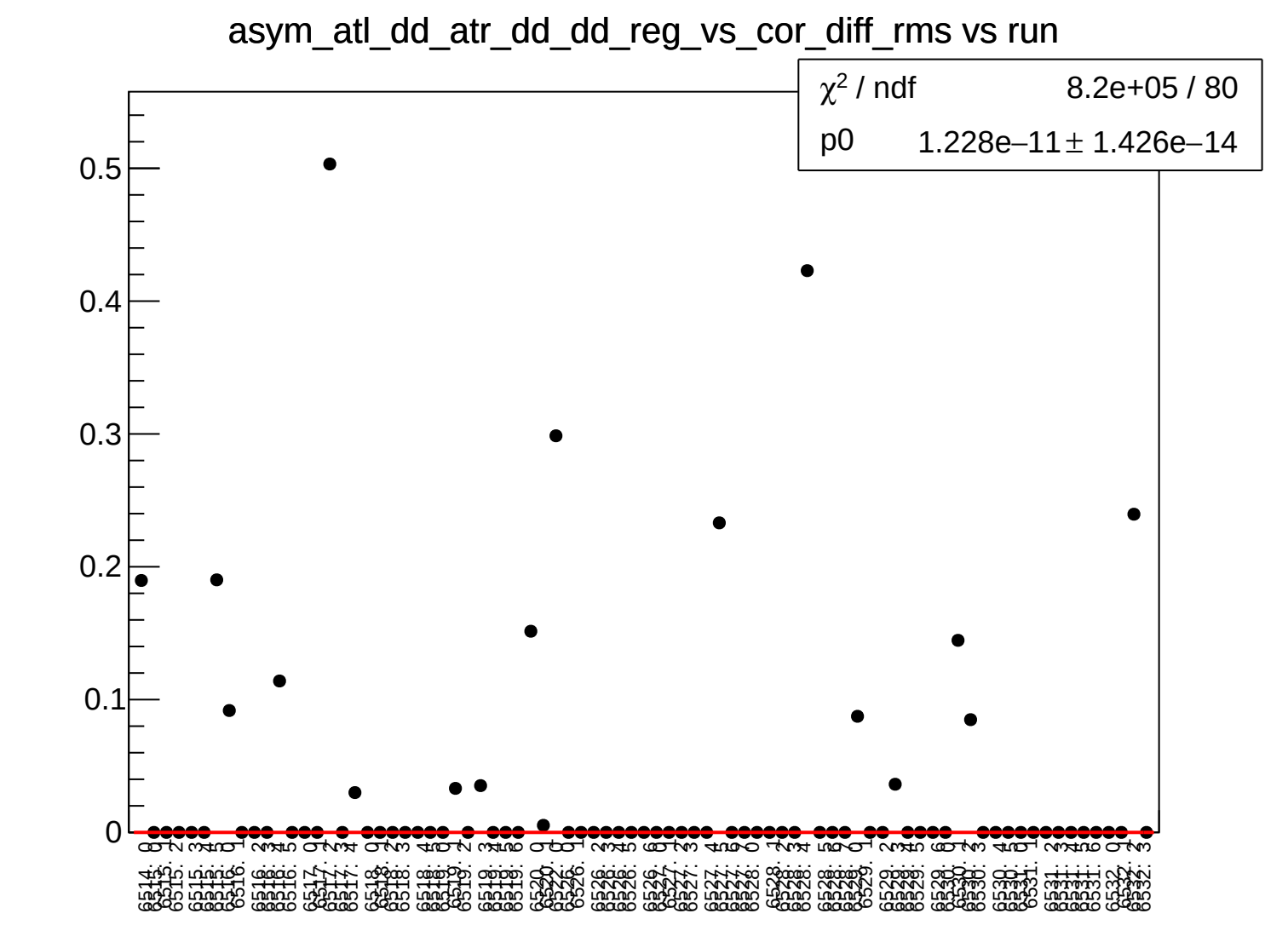

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.671e+04 / 80
p0 650.4 ± 0.5251
800
750
700
650
600
550
500

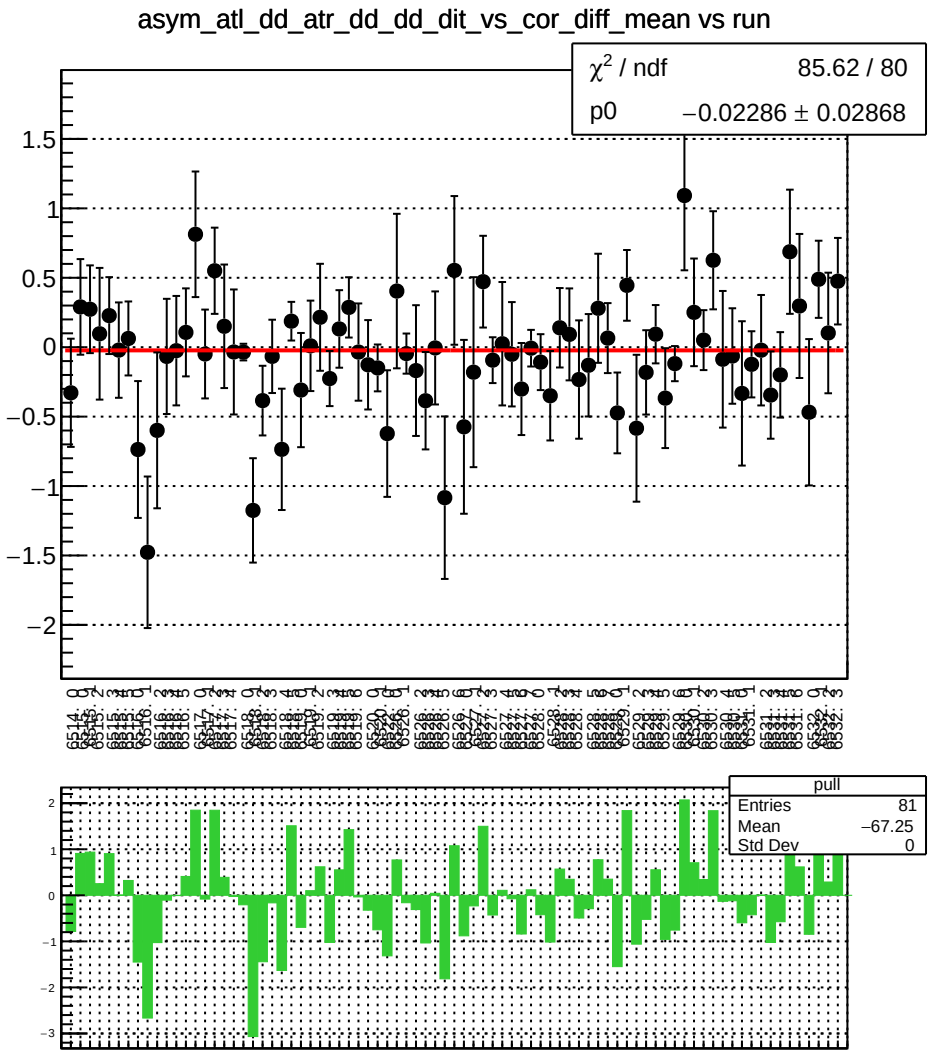

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 71.12 / 80
p0 3069 ± 1631
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −209.3
Std Dev 0
2
1
0
−1
−2

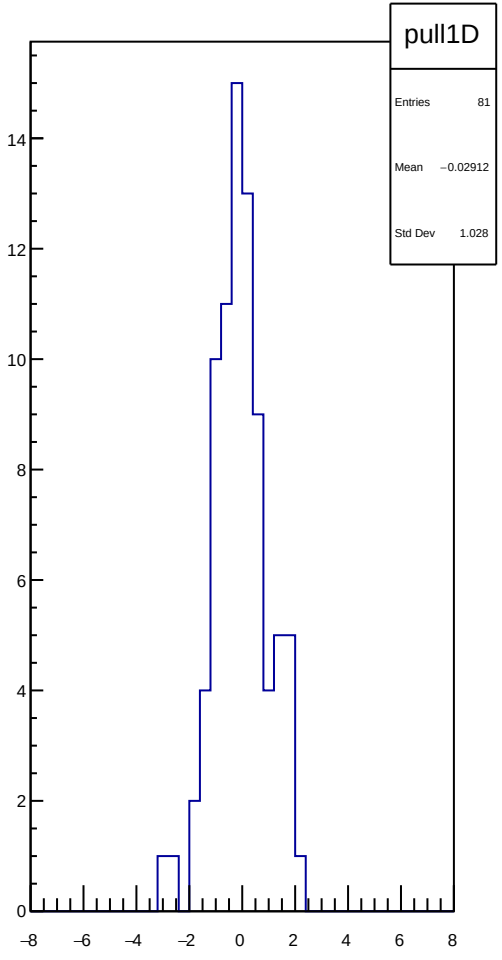

pull1D
Entries 81
Mean −0.0162
Std Dev 0.9369
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

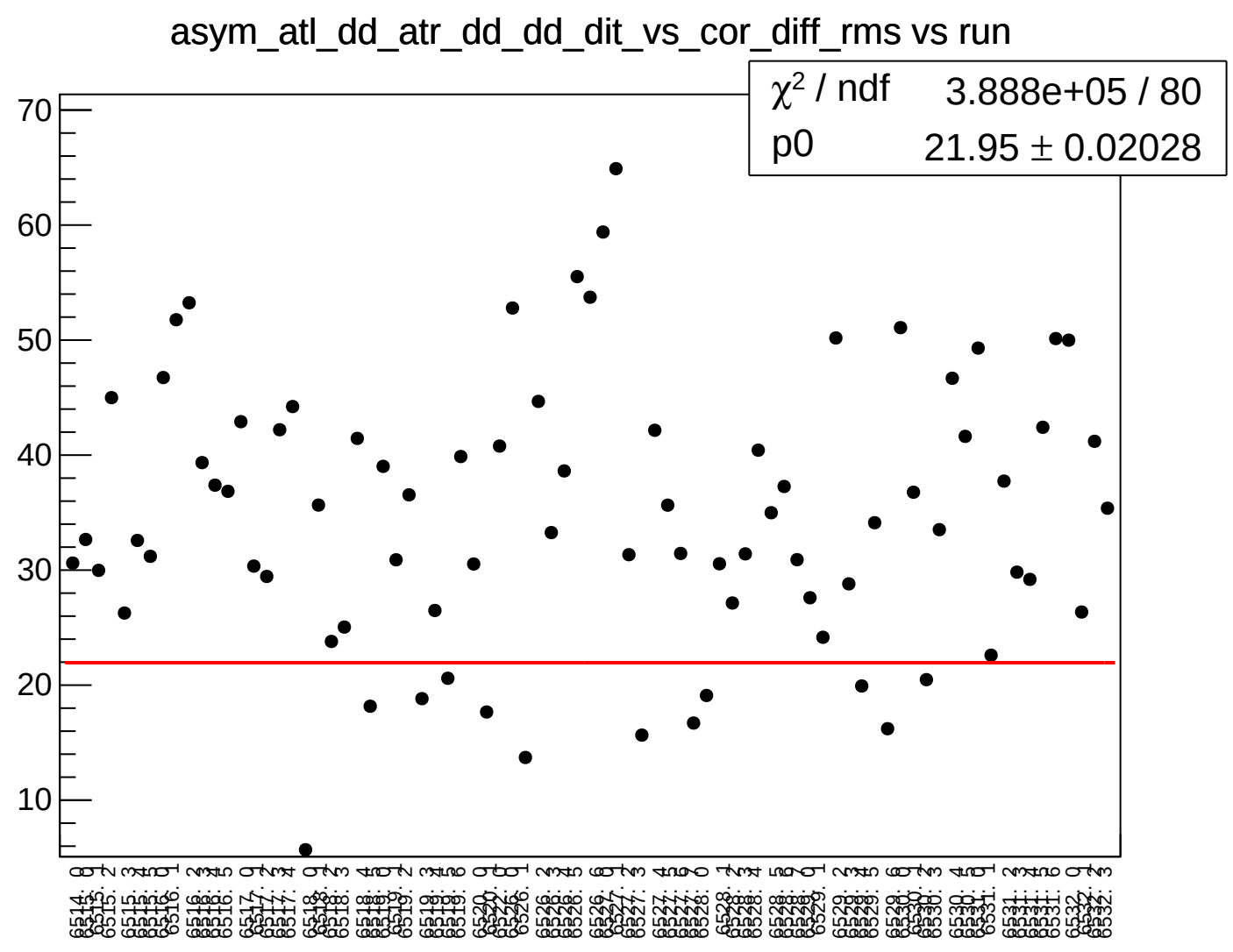

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 917.6 / 80
p0 1441 ± 1.154
1540
1520
1500
1480
1460
1440
1420
1400
1380
1360
1340

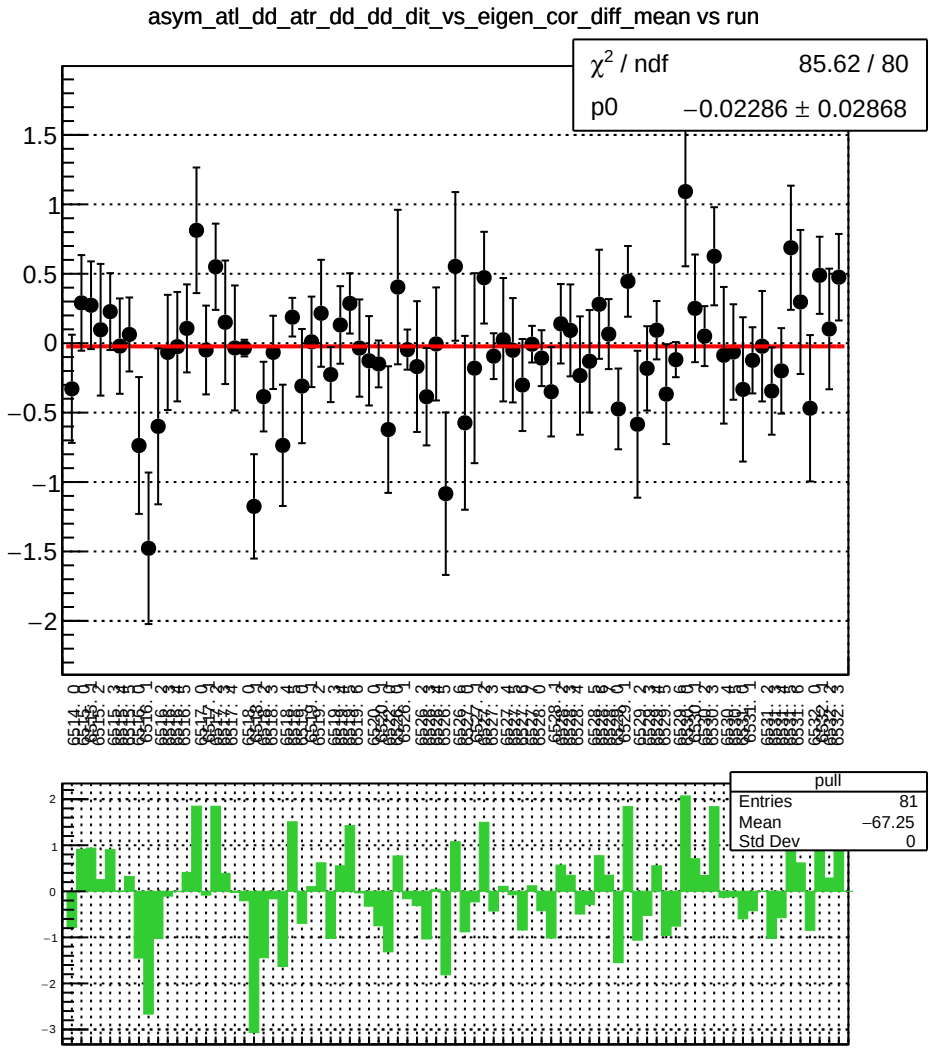

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 91.66 / 80
p0 2.318e−14 ± 2.017e−14
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
pull
Entries 81
Mean 79.54
Std Dev 0
pull1D
Entries 81
Mean 0.1167
Std Dev 1.057
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

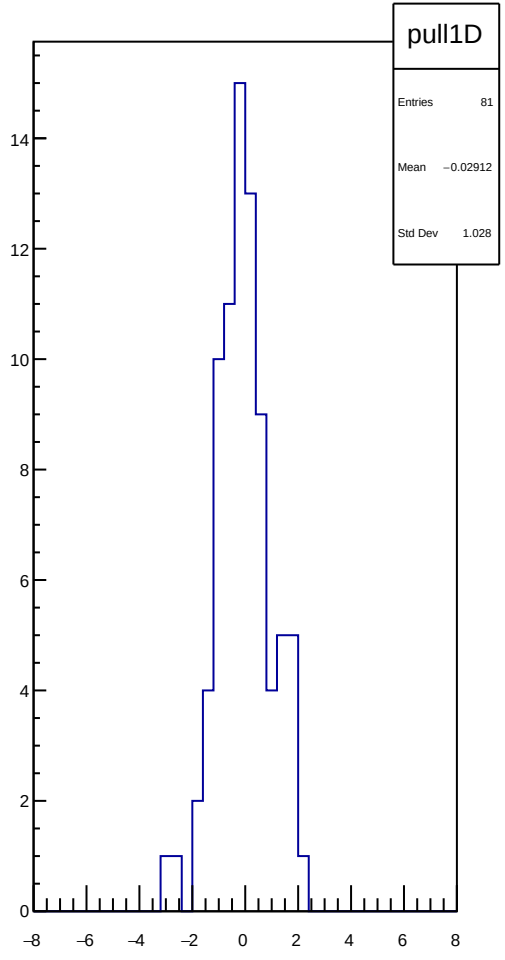

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.2e+05 / 80
p0 1.228e−11 ± 1.426e−14
0.5
0.4
0.3
0.2
0.1
0

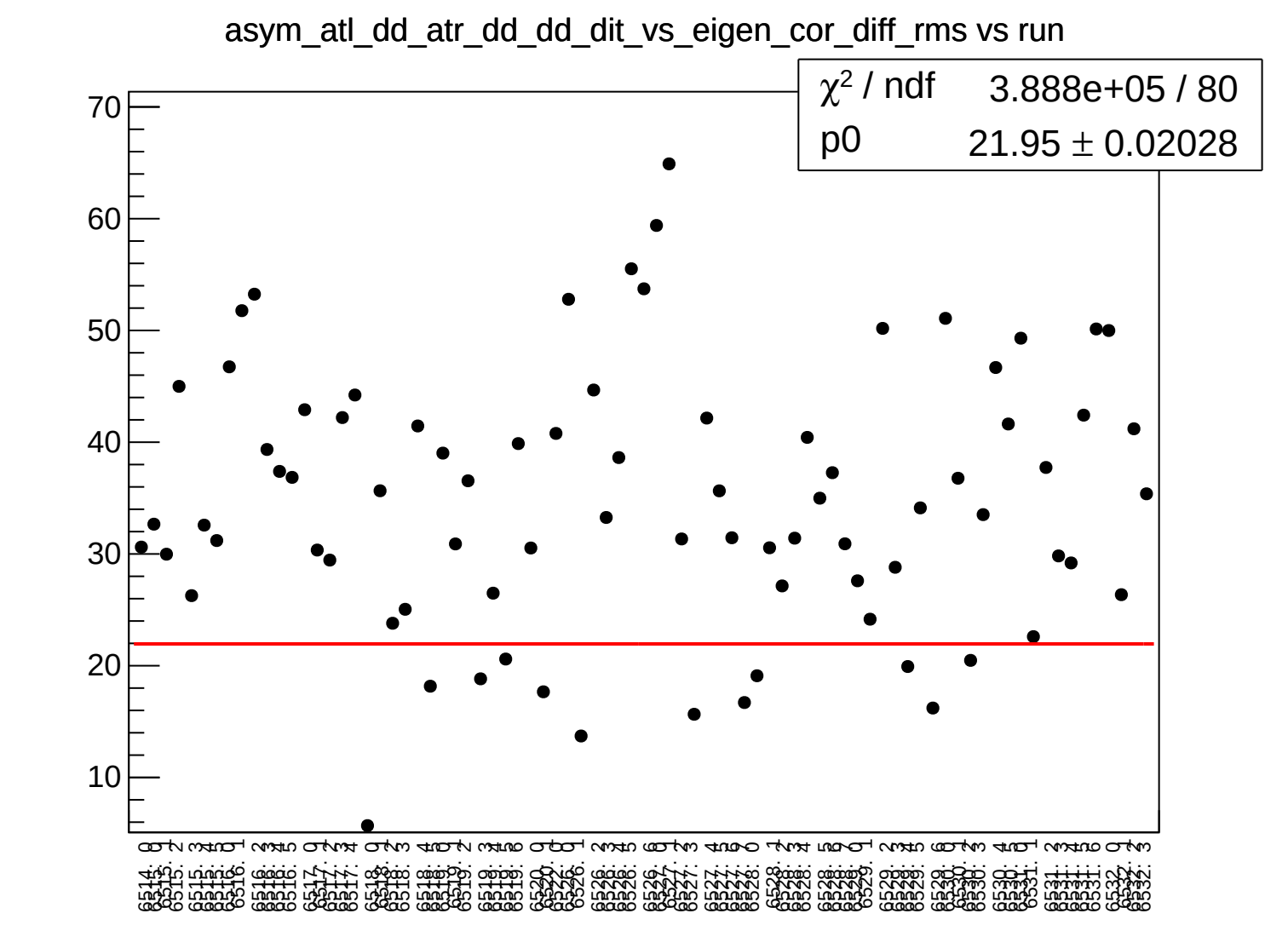

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 85.62 / 80
p0 −0.02286 ± 0.02868
pull
Entries 81
Mean −67.25
Std Dev 0

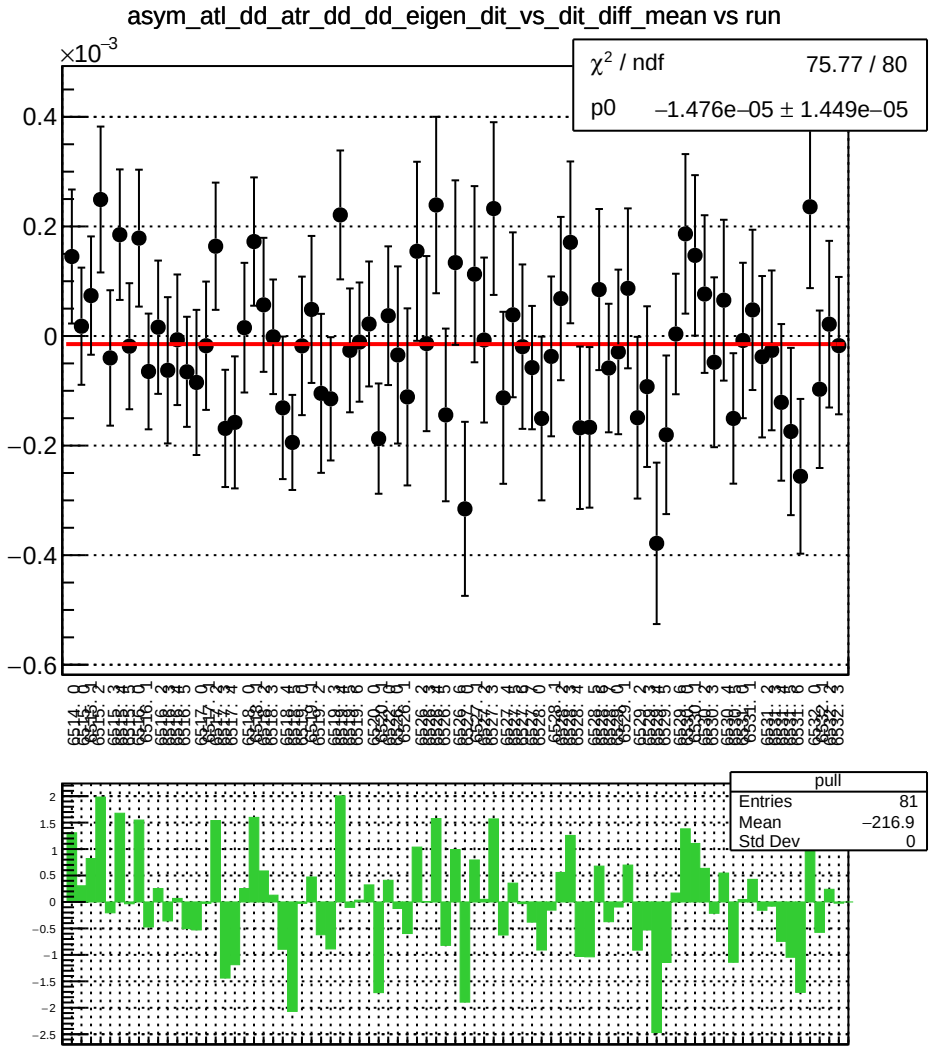

pull1D
Entries 81
Mean −0.02912
Std Dev 1.028

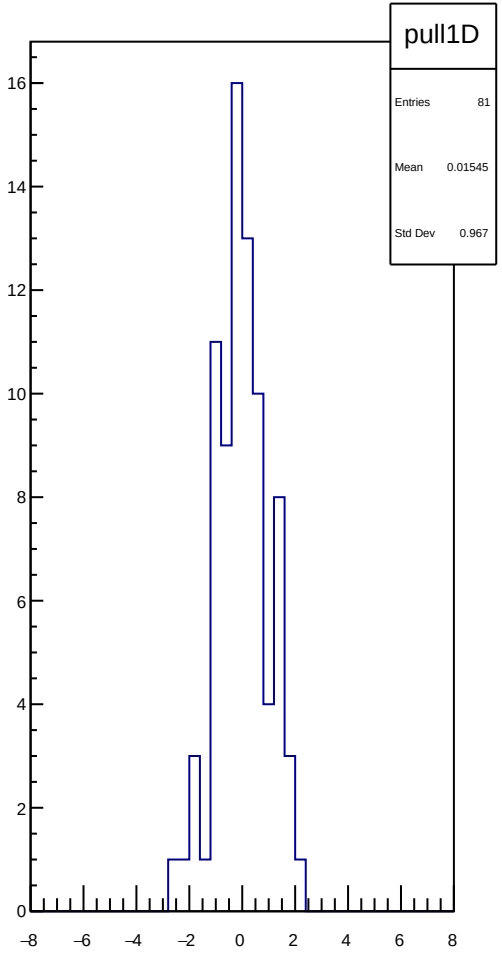

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.888e+05 / 80
p0 21.95 ± 0.02028
70
60
50
40
30
20
10

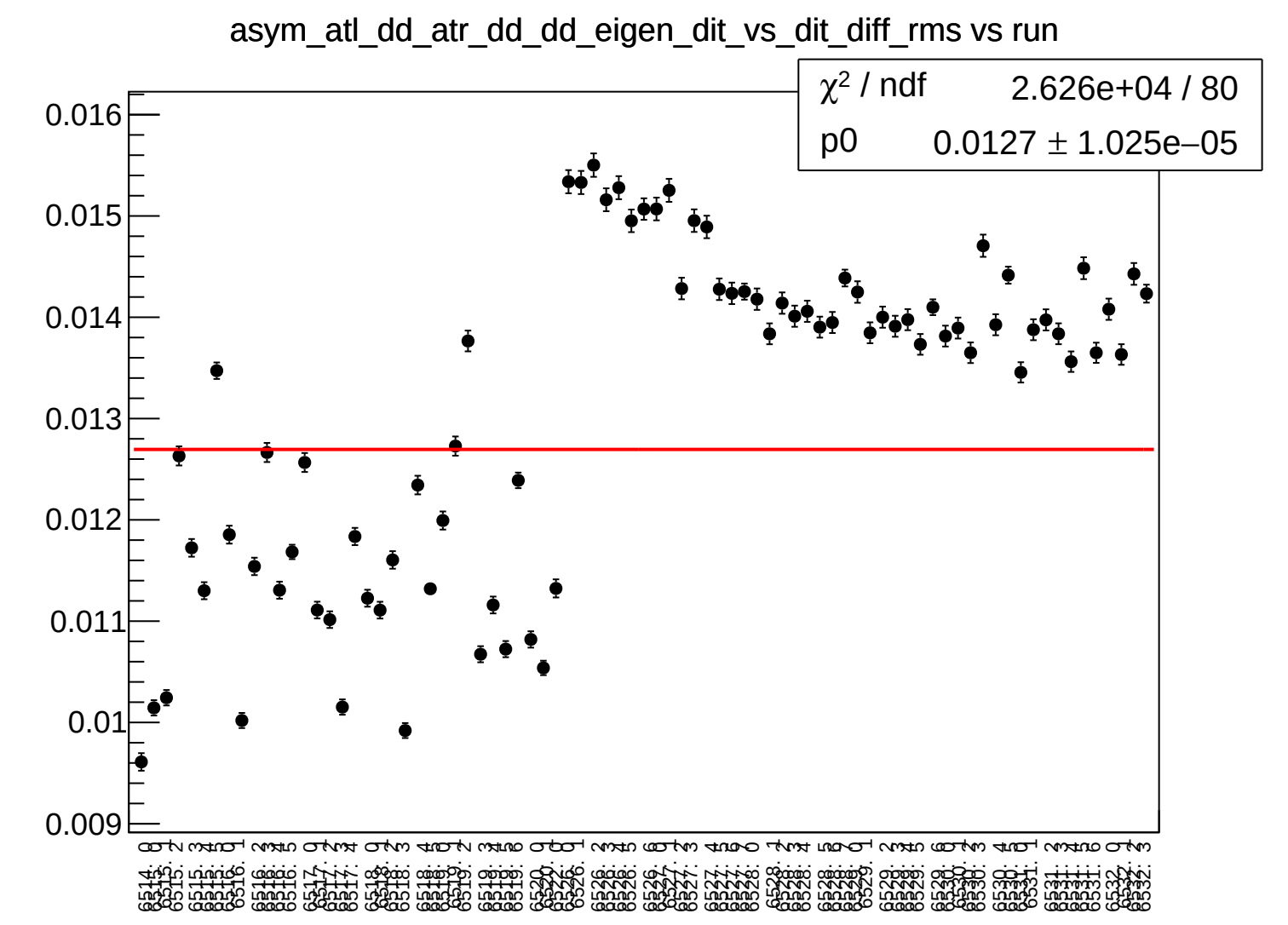

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.62 / 80
p0 −0.02286 ± 0.02868
pull
Entries 81
Mean −67.25
Std Dev 0

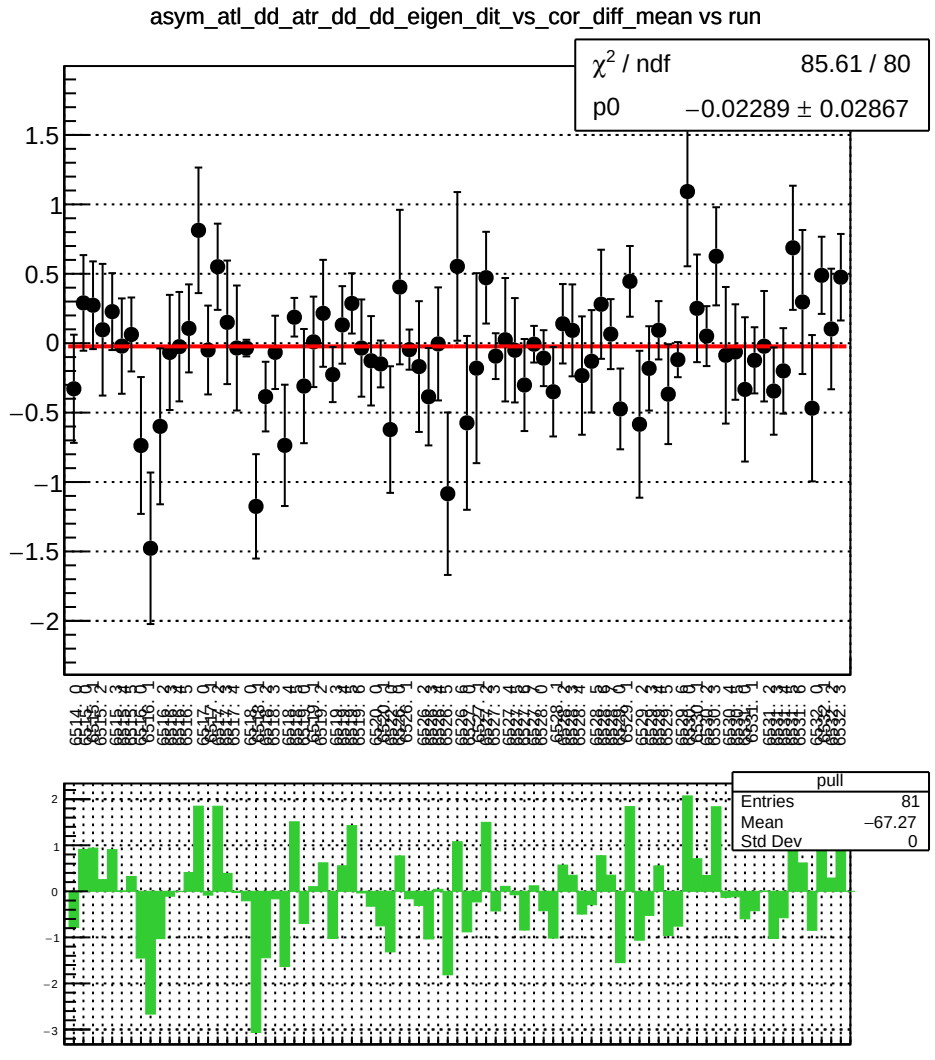

pull1D
Entries 81
Mean −0.02912
Std Dev 1.028

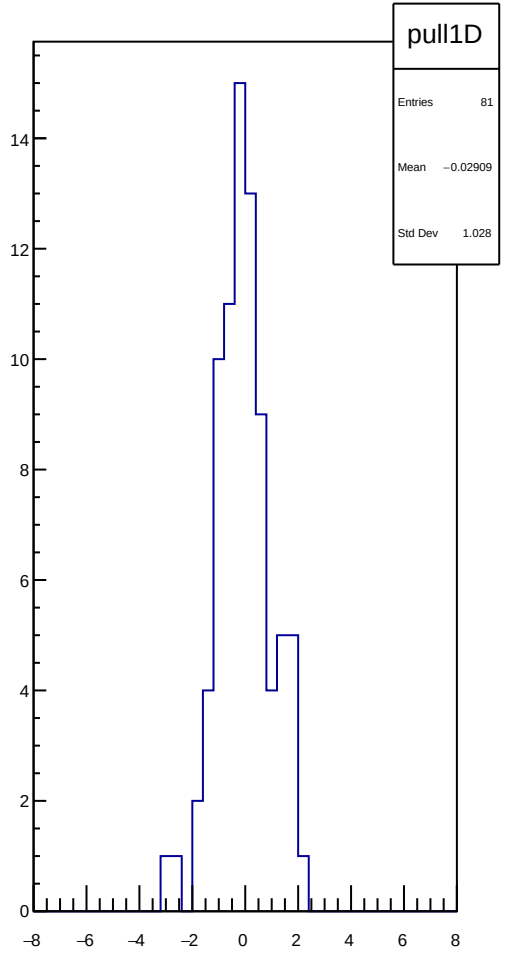

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.888e+05 / 80
p0 21.95 ± 0.02028
70
60
50
40
30
20
10

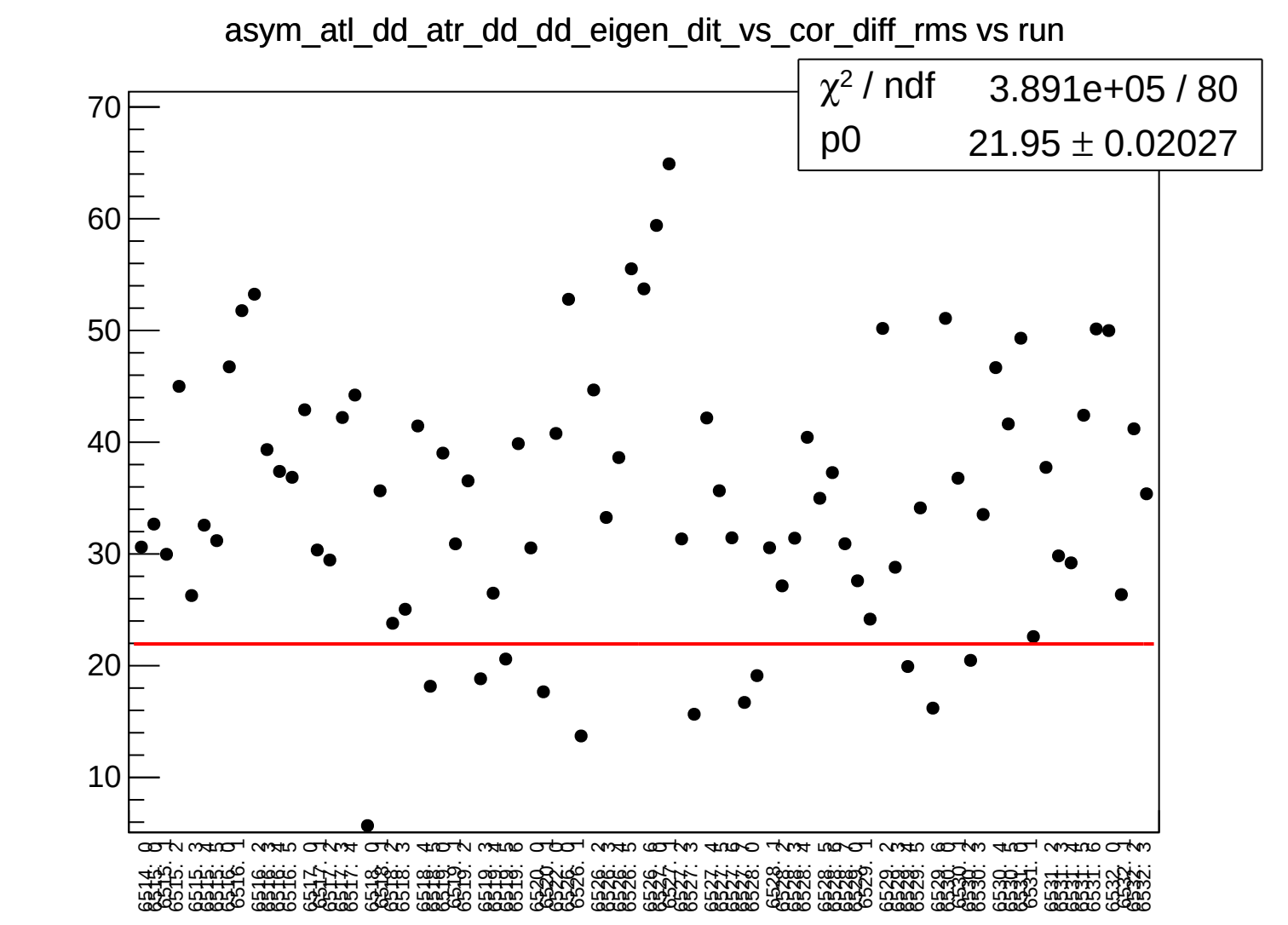

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.77 / 80
p0 −1.476e−05 ± 1.449e−05
pull
Entries 81
Mean −216.9
Std Dev 0

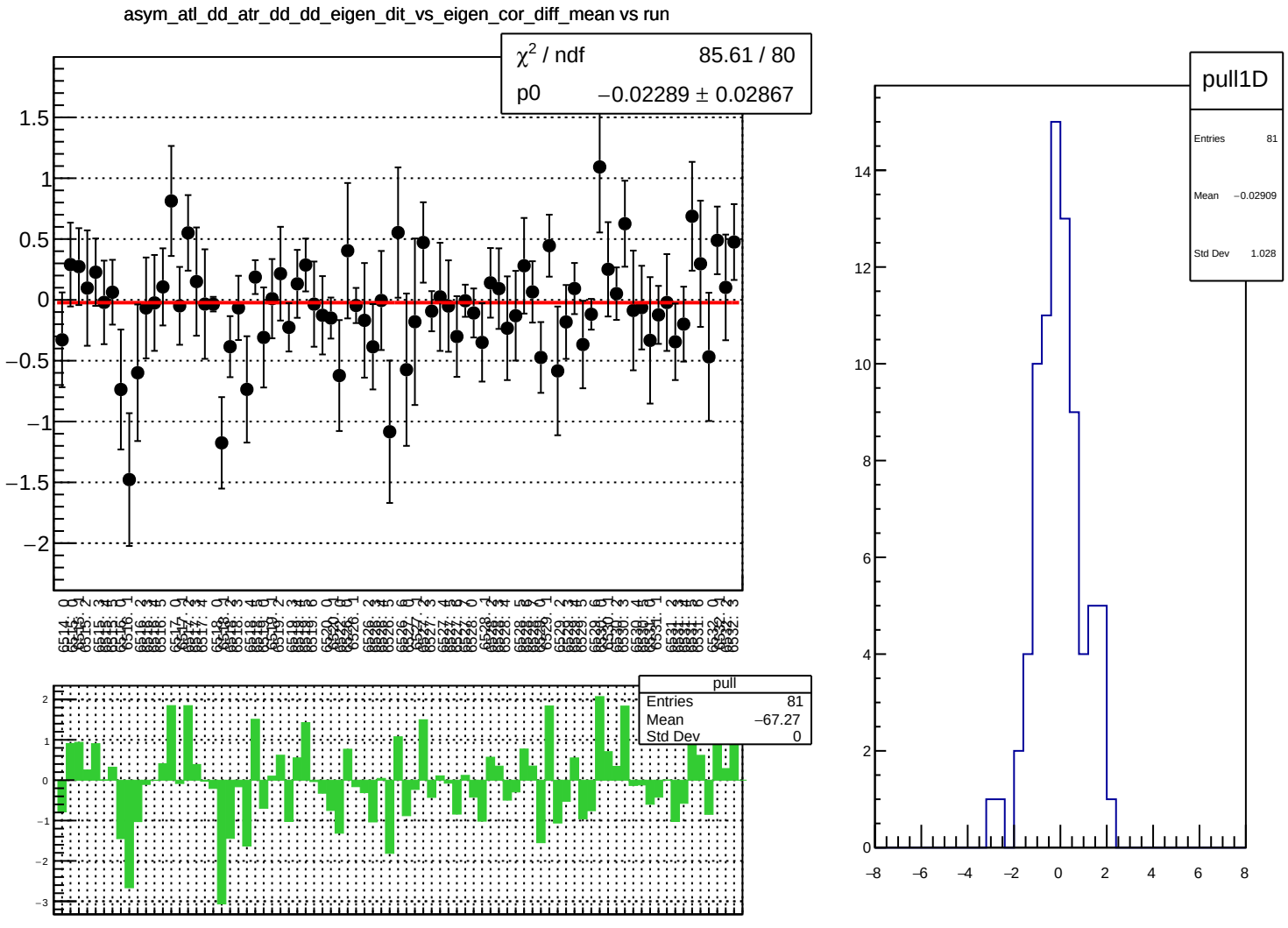

pull1D
Entries 81
Mean 0.01545
Std Dev 0.967

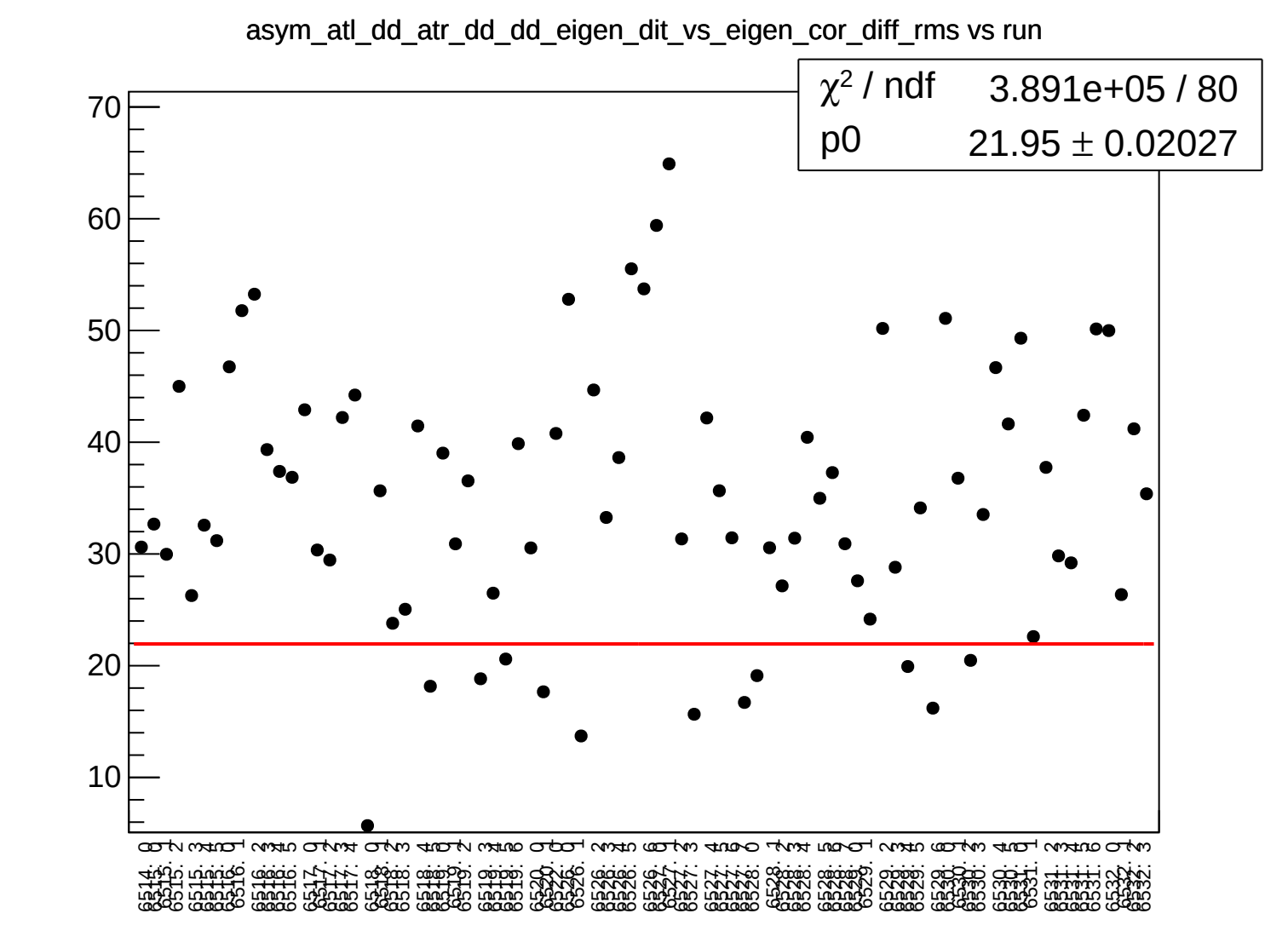

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.626e+04 / 80
p0 0.0127 ± 1.025e−05
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009

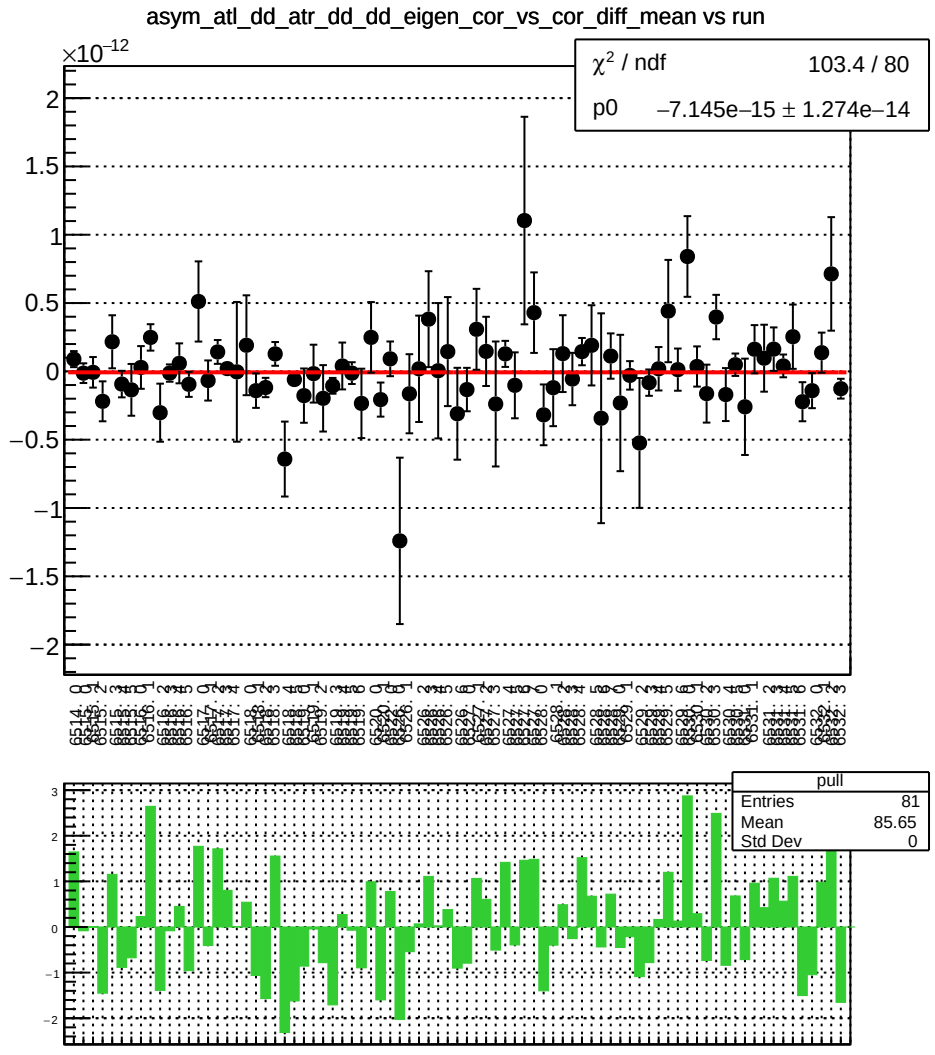

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.61 / 80
p0 −0.02289 ± 0.02867
pull
Entries 81
Mean −67.27
Std Dev 0

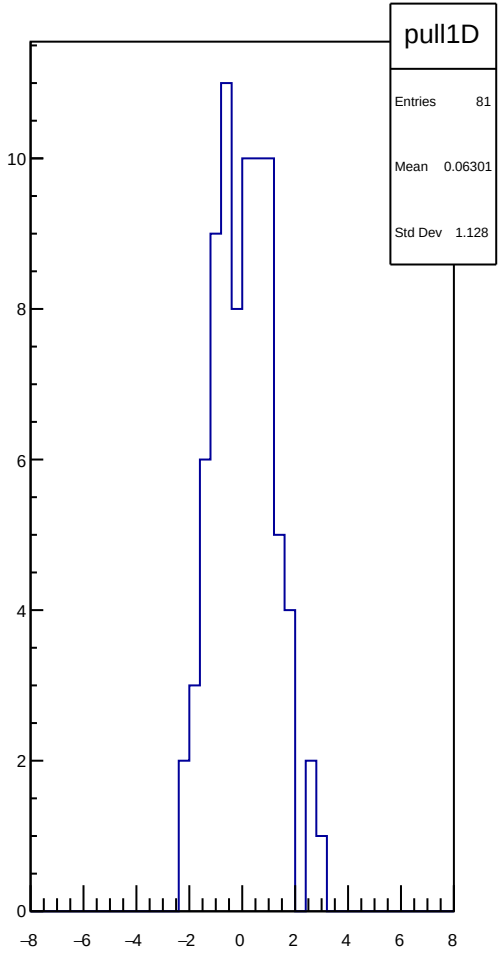

pull1D
Entries 81
Mean −0.02909
Std Dev 1.028

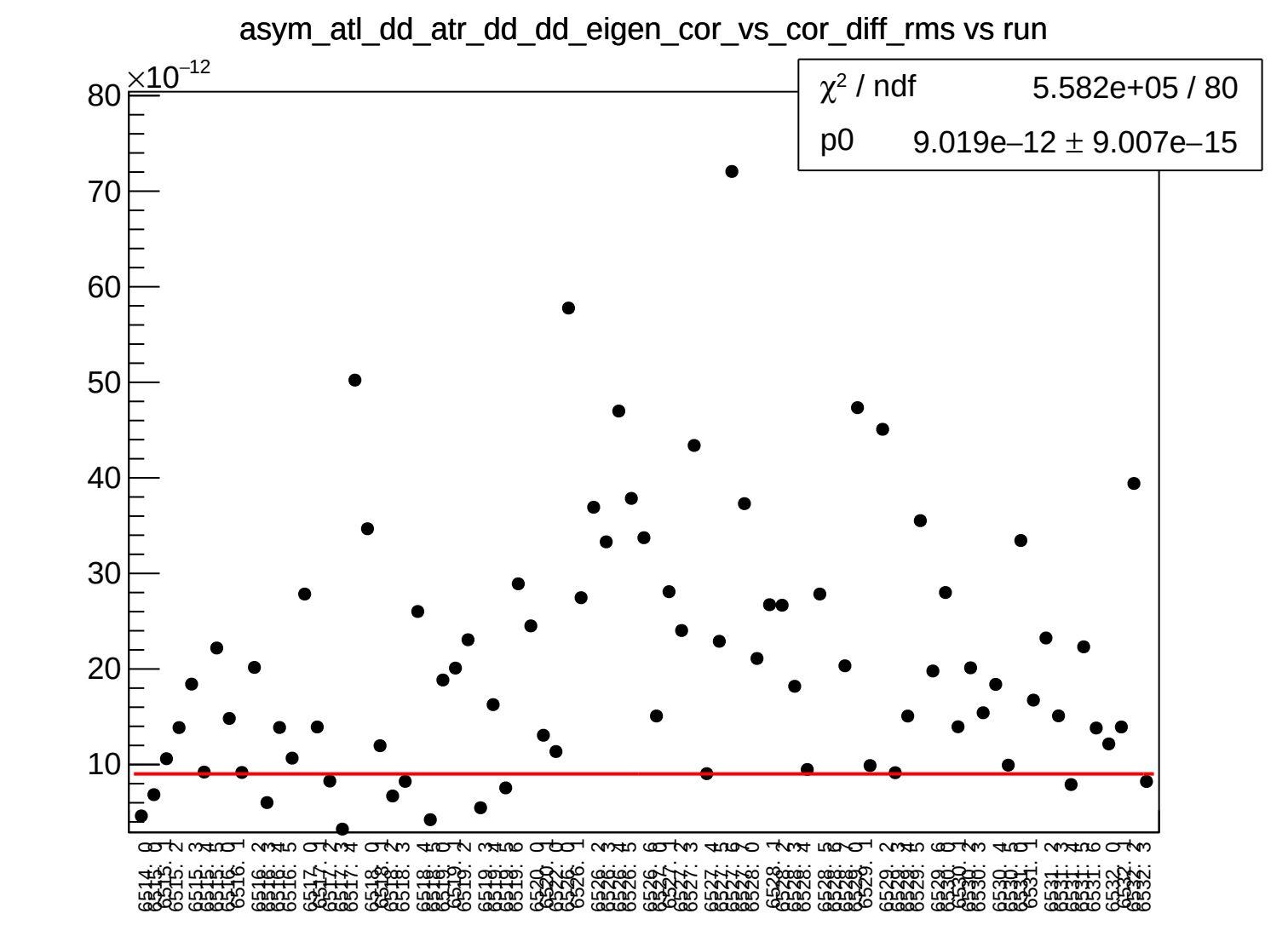

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.891e+05 / 80
p0 21.95 ± 0.02027
70
60
50
40
30
20
10

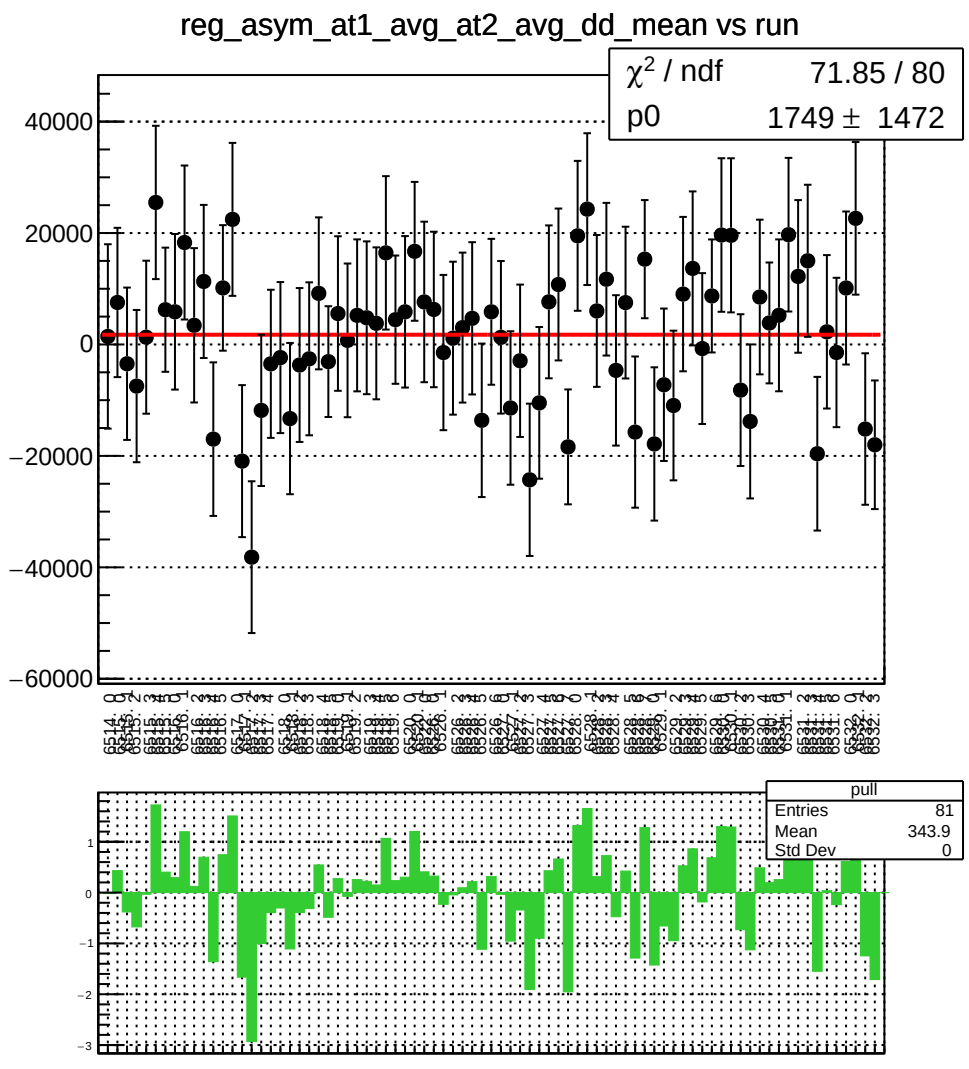

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.61 / 80
p0 −0.02289 ± 0.02867
pull
Entries 81
Mean −67.27
Std Dev 0
pull1D
Entries 81
Mean −0.02909
Std Dev 1.028

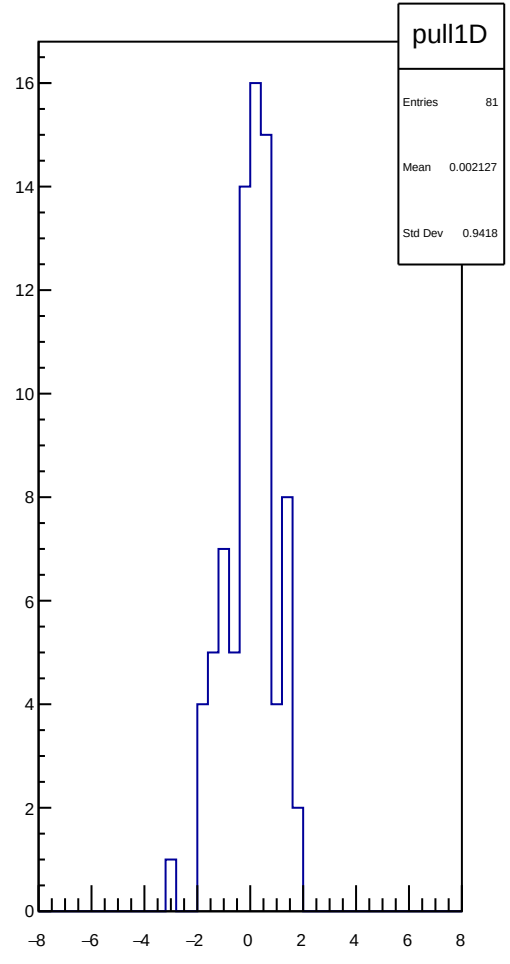

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.891e+05 / 80
p0 21.95 ± 0.02027
70
60
50
40
30
20
10

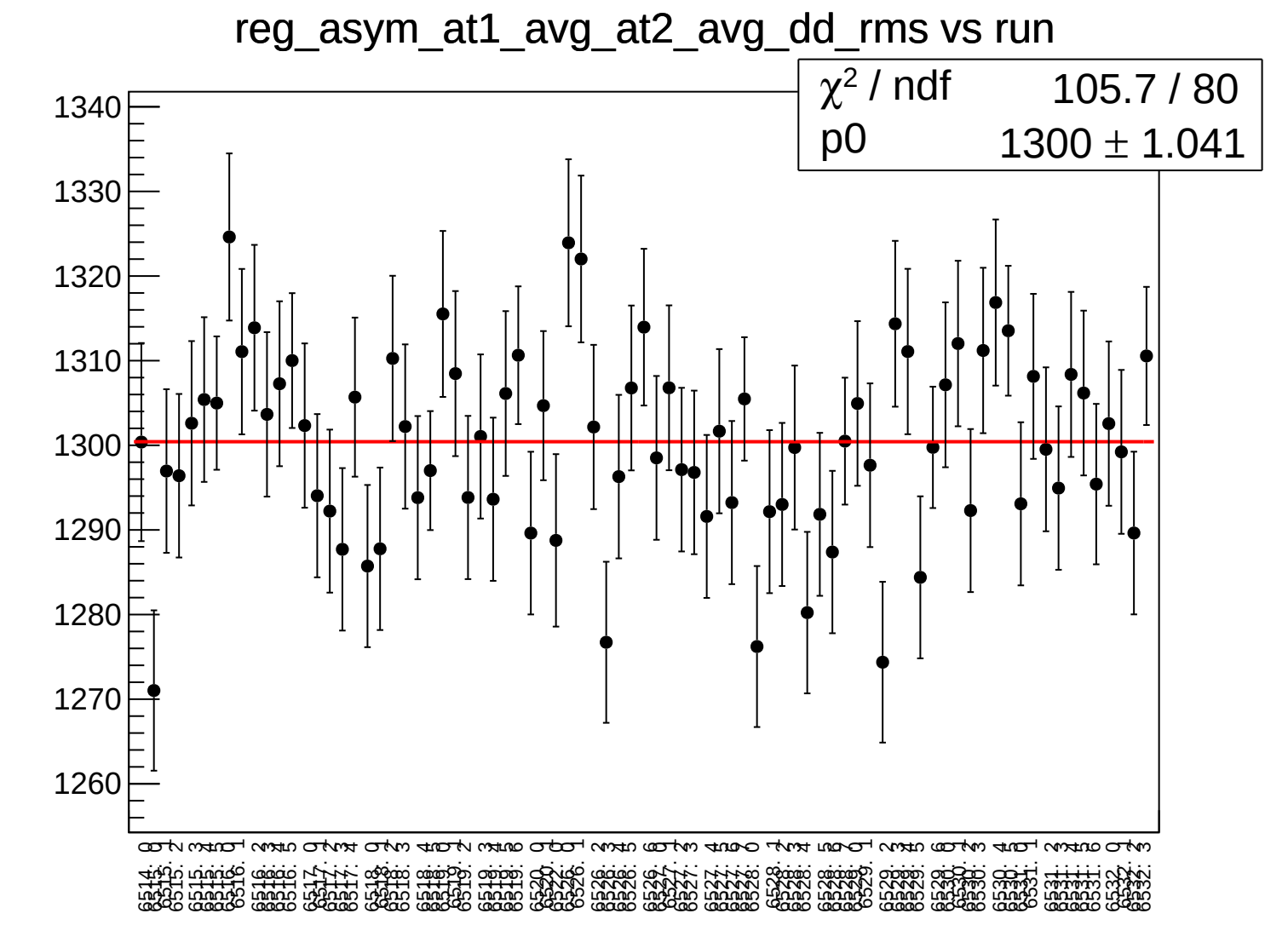

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 103.4 / 80
p0 −7.145e−15 ± 1.274e−14
pull
Entries 81
Mean 85.65
Std Dev 0

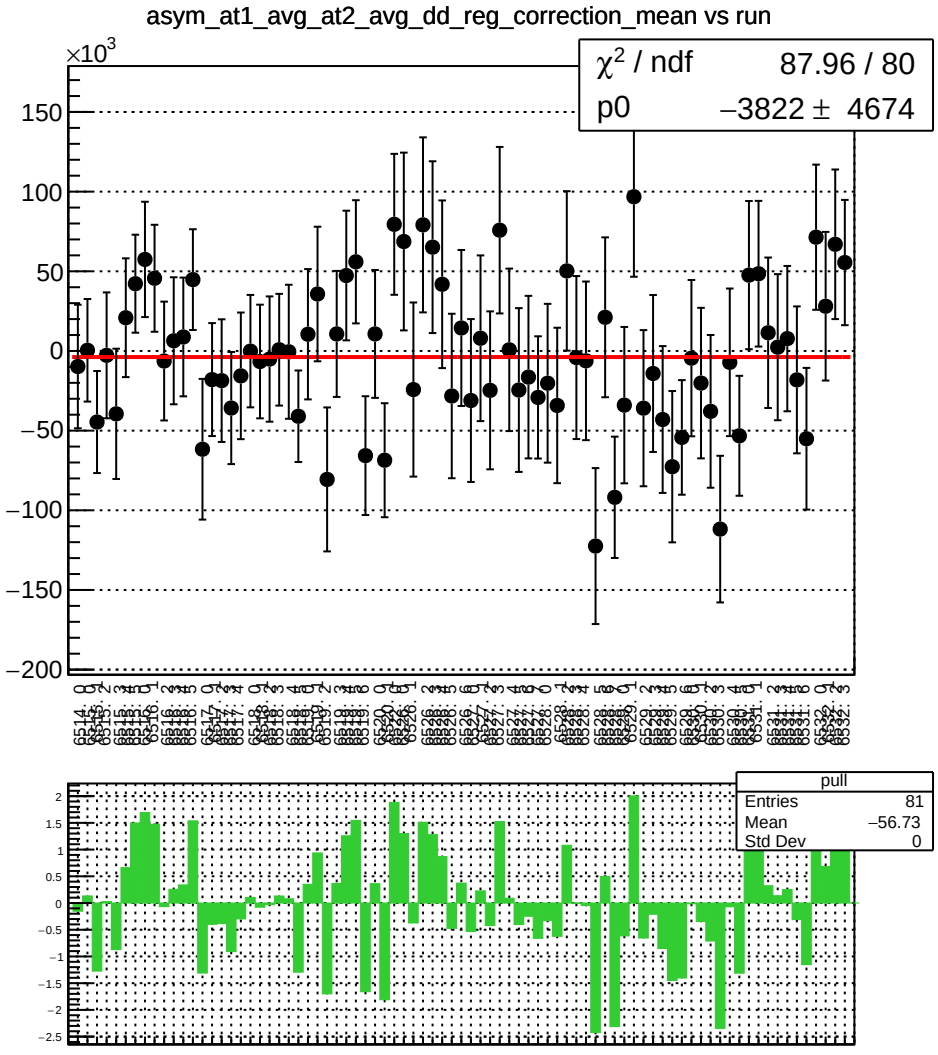

pull1D
Entries 81
Mean 0.06301
Std Dev 1.128

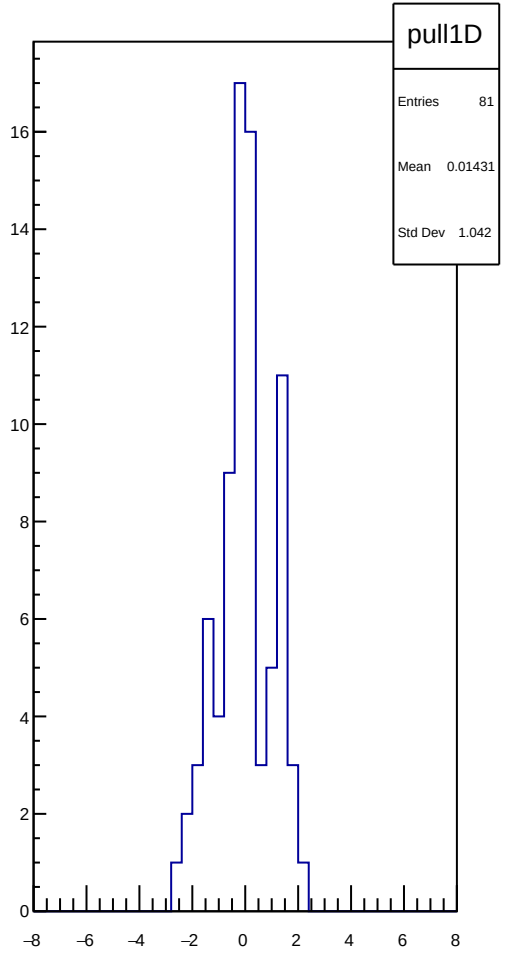

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.582e+05 / 80
p0 9.019e−12 ± 9.007e−15
80
70
60
50
40
30
20
10

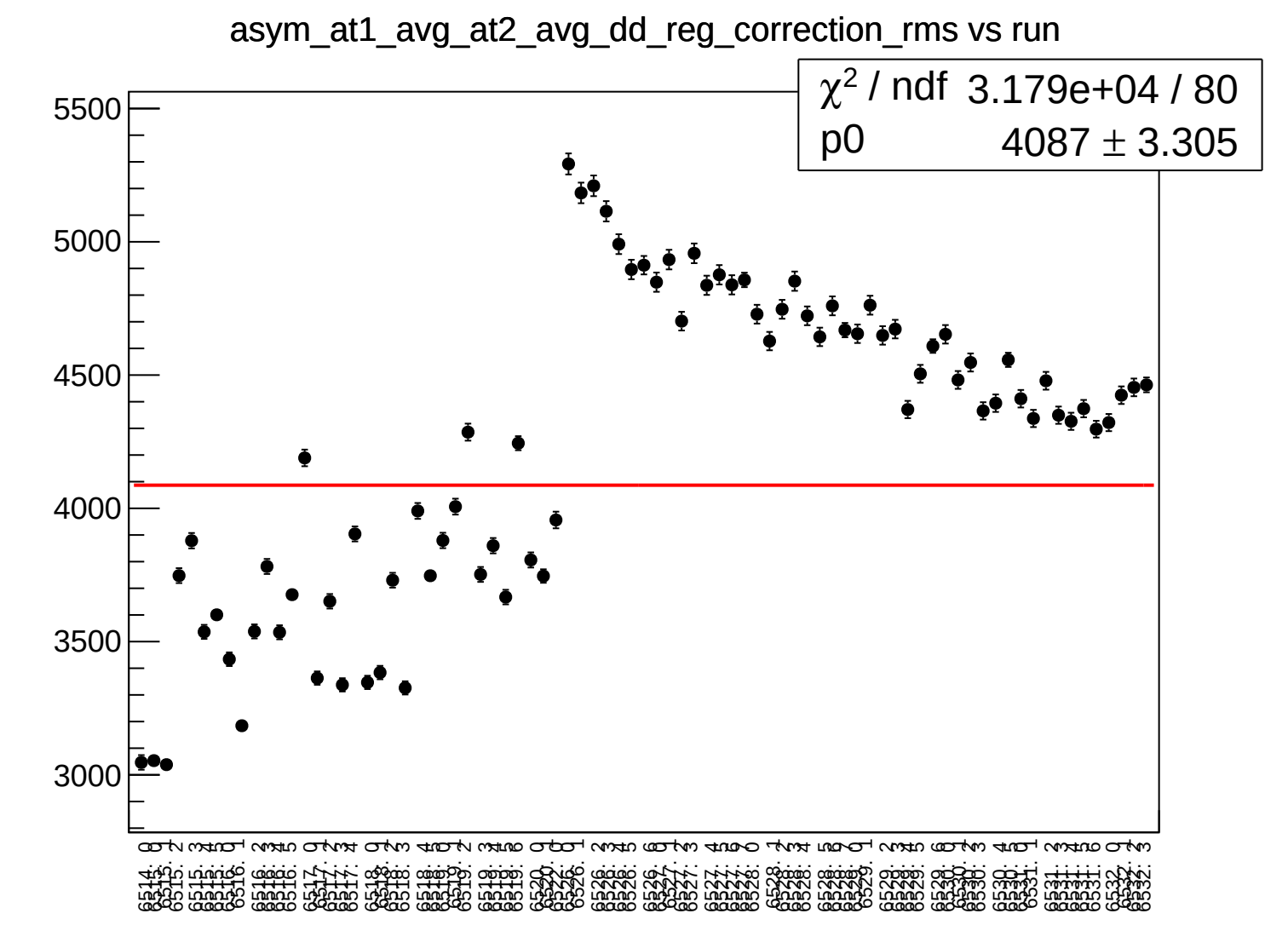

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 71.85 / 80
p0 1749 ± 1472
pull
Entries 81
Mean 343.9
Std Dev 0

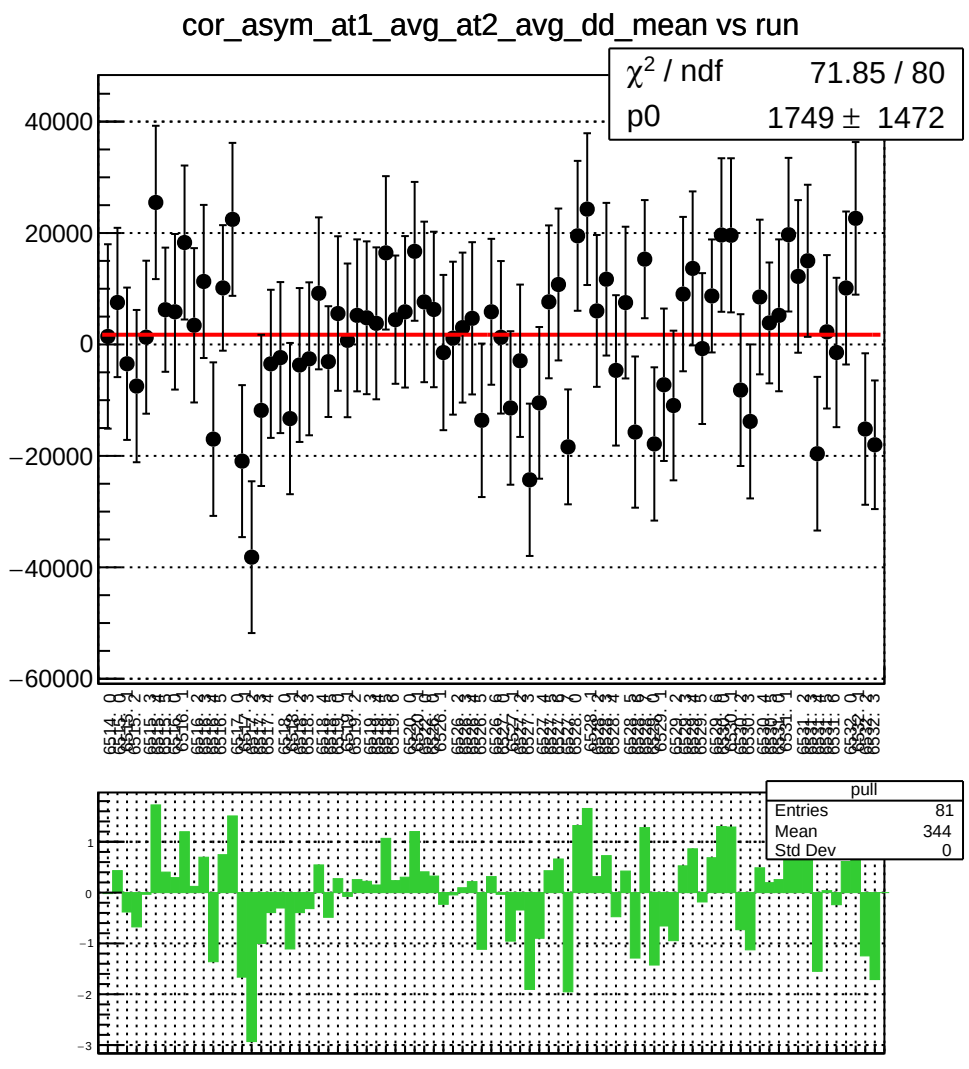

pull1D
Entries 81
Mean 0.002127
Std Dev 0.9418

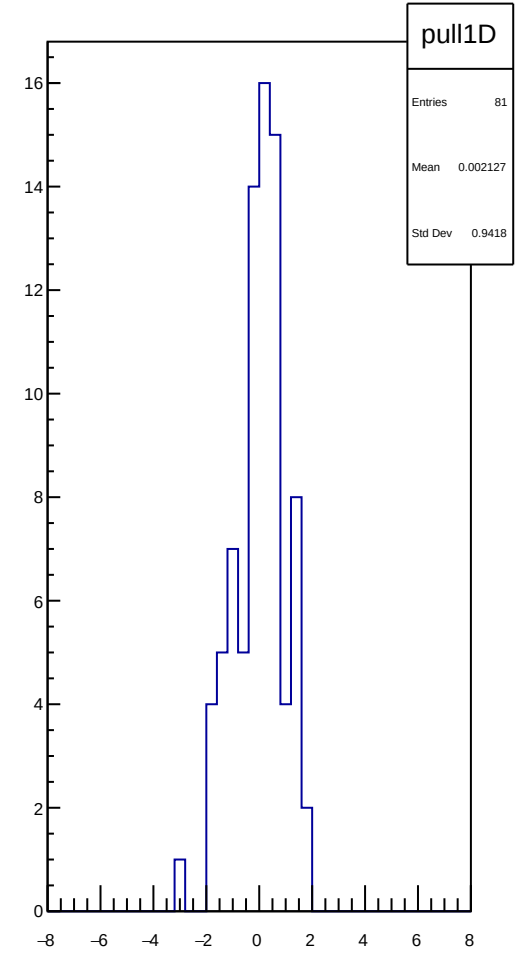

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 105.7 / 80
p0 1300 ± 1.041
1340
1330
1320
1310
1300
1290
1280
1270
1260

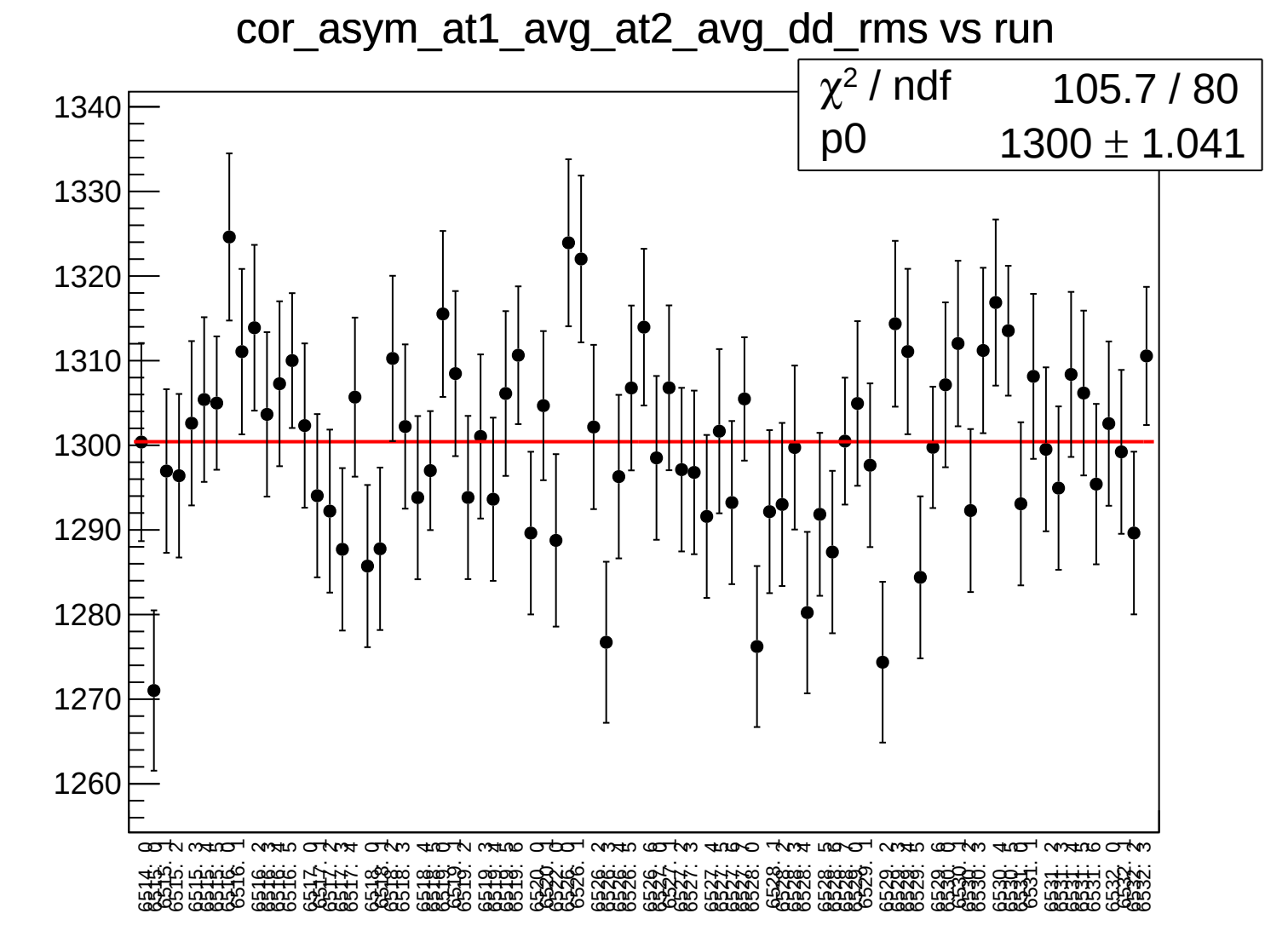

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 87.96 / 80
p0 −3822 ± 4674
150
100
50
0
−50
−100
−150
−200
pull
Entries 81
Mean −56.73
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

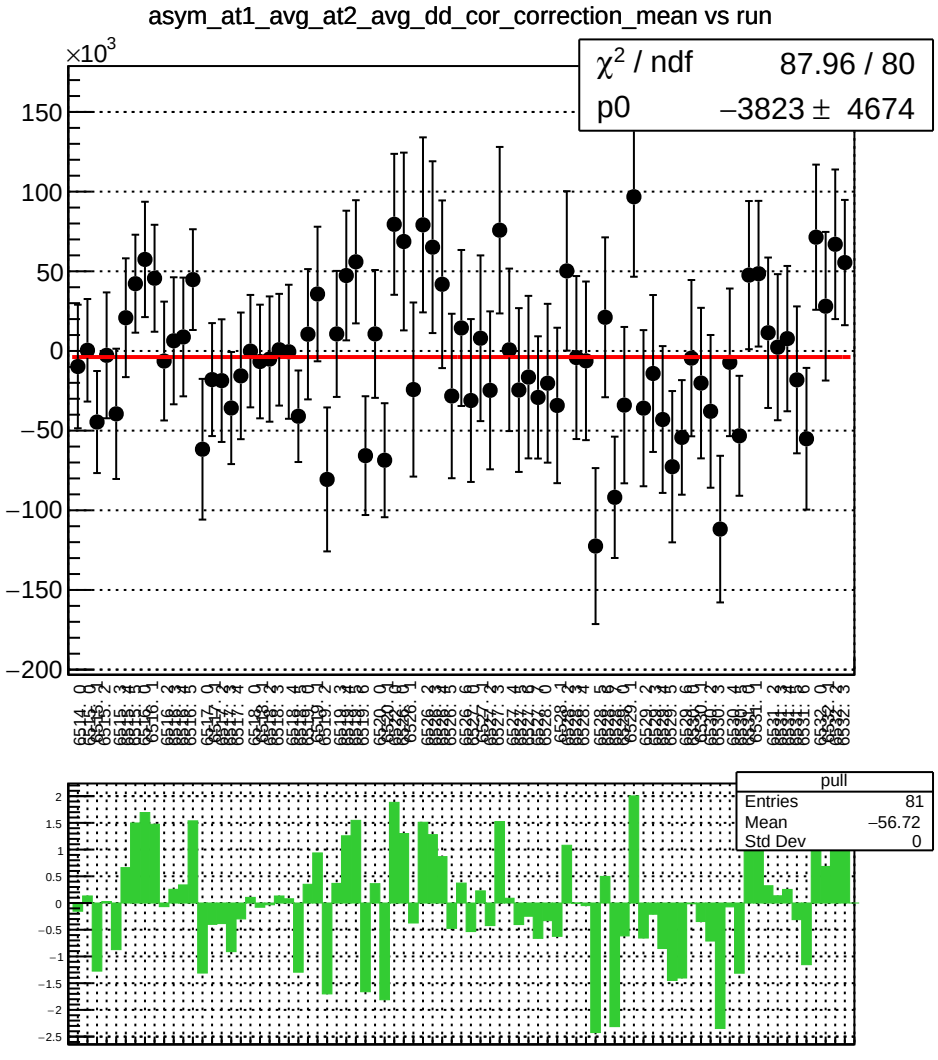

pull1D
Entries 81
Mean 0.01431
Std Dev 1.042
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

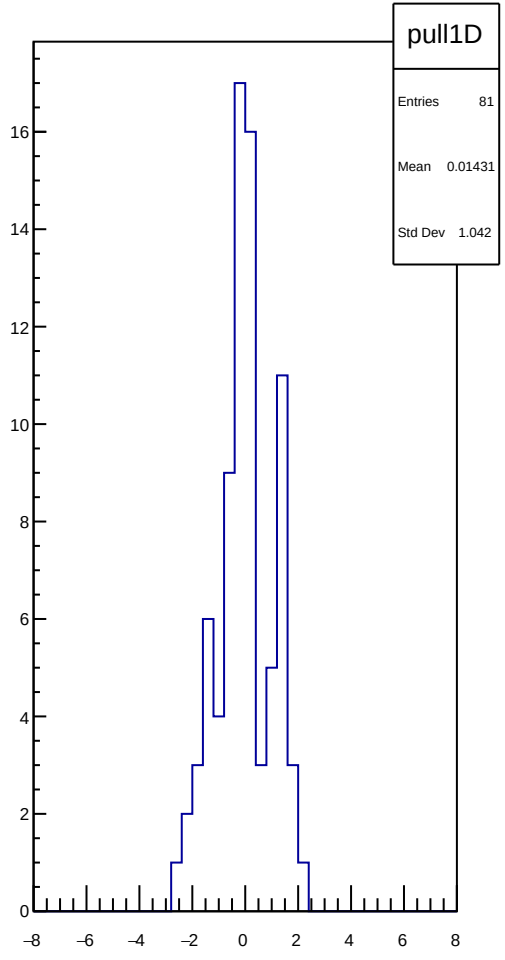

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ² / ndf 3.179e+04 / 80
p0 4087 ± 3.305
5500
5000
4500
4000
3500
3000

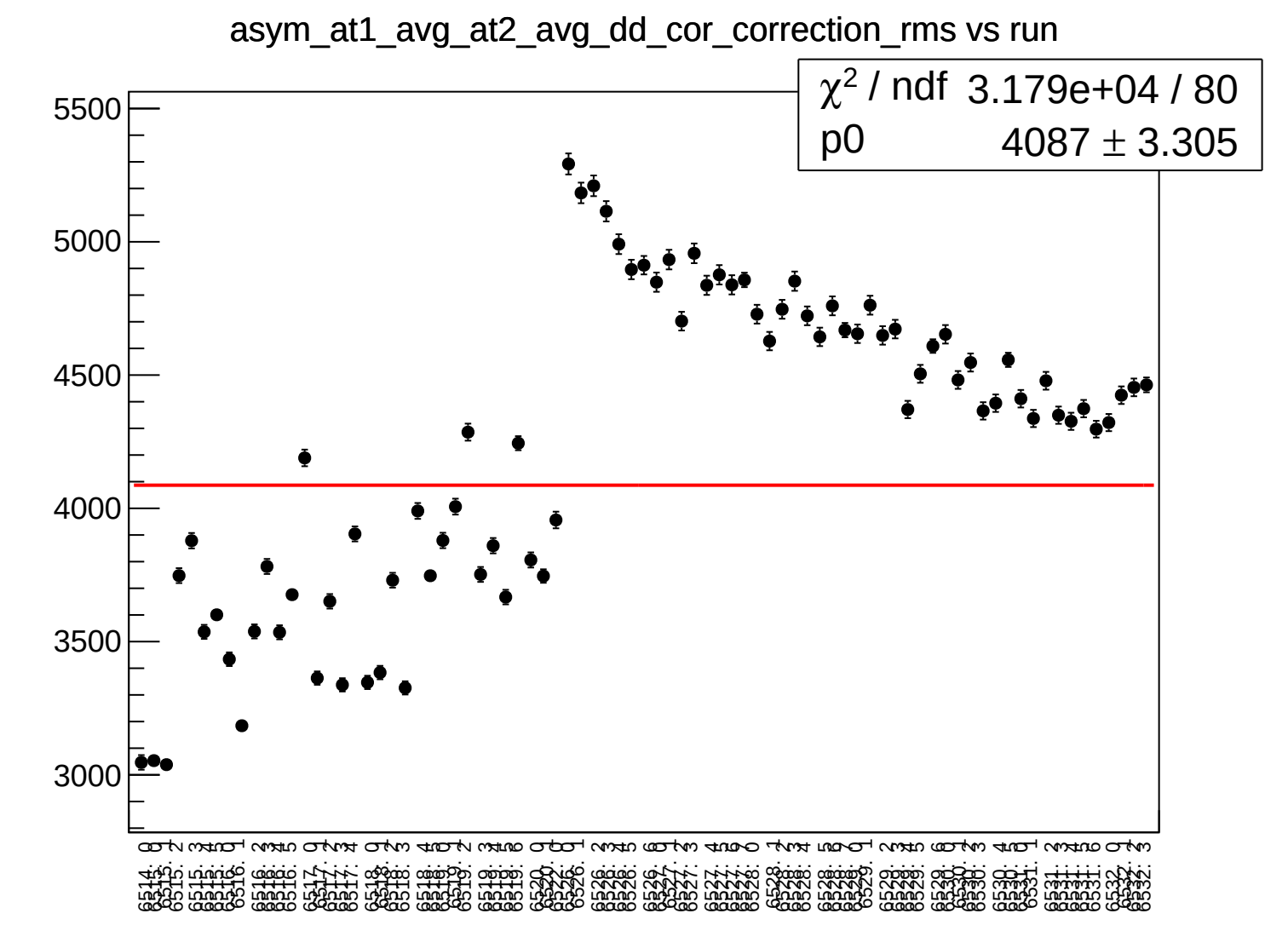

cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 71.85 / 80
p0 1749 ± 1472
pull
Entries 81
Mean 344
Std Dev 0

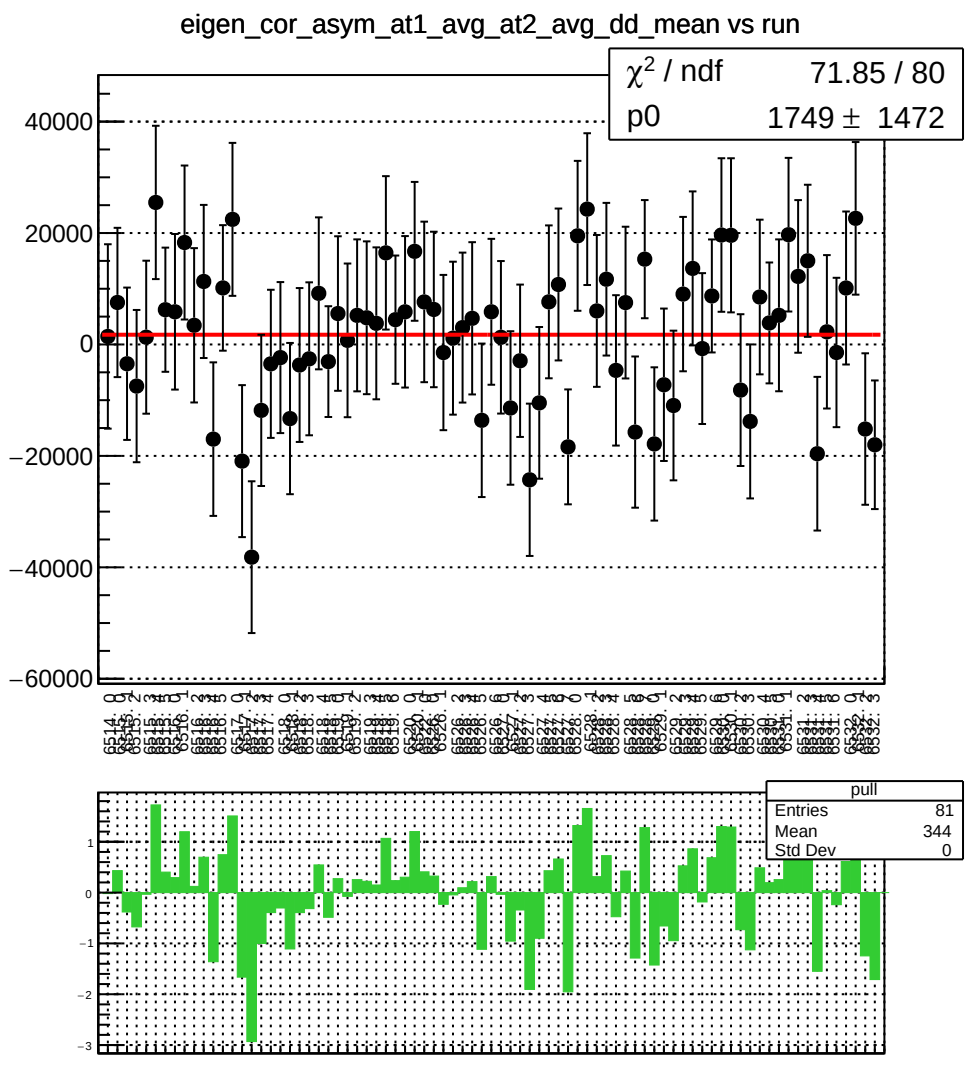

pull1D
Entries 81
Mean 0.002127
Std Dev 0.9418

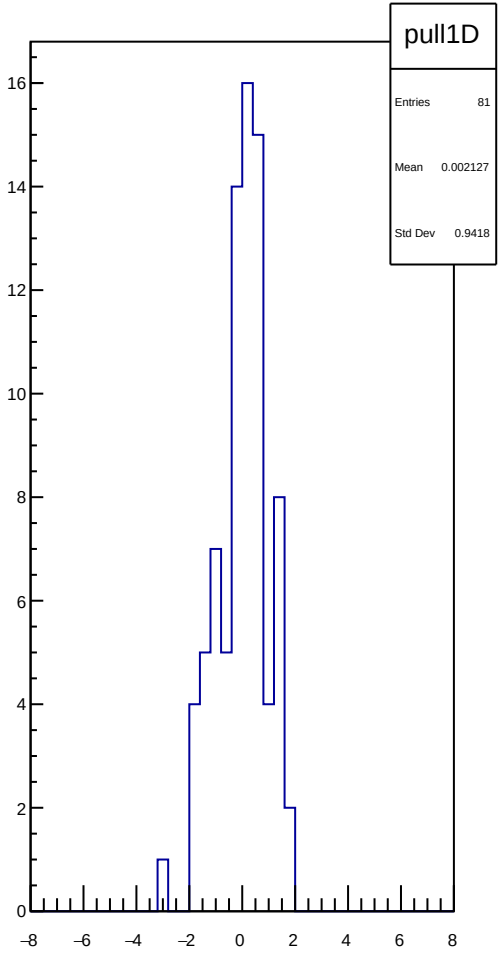

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 105.7 / 80
p0 1300 ± 1.041
1340
1330
1320
1310
1300
1290
1280
1270
1260

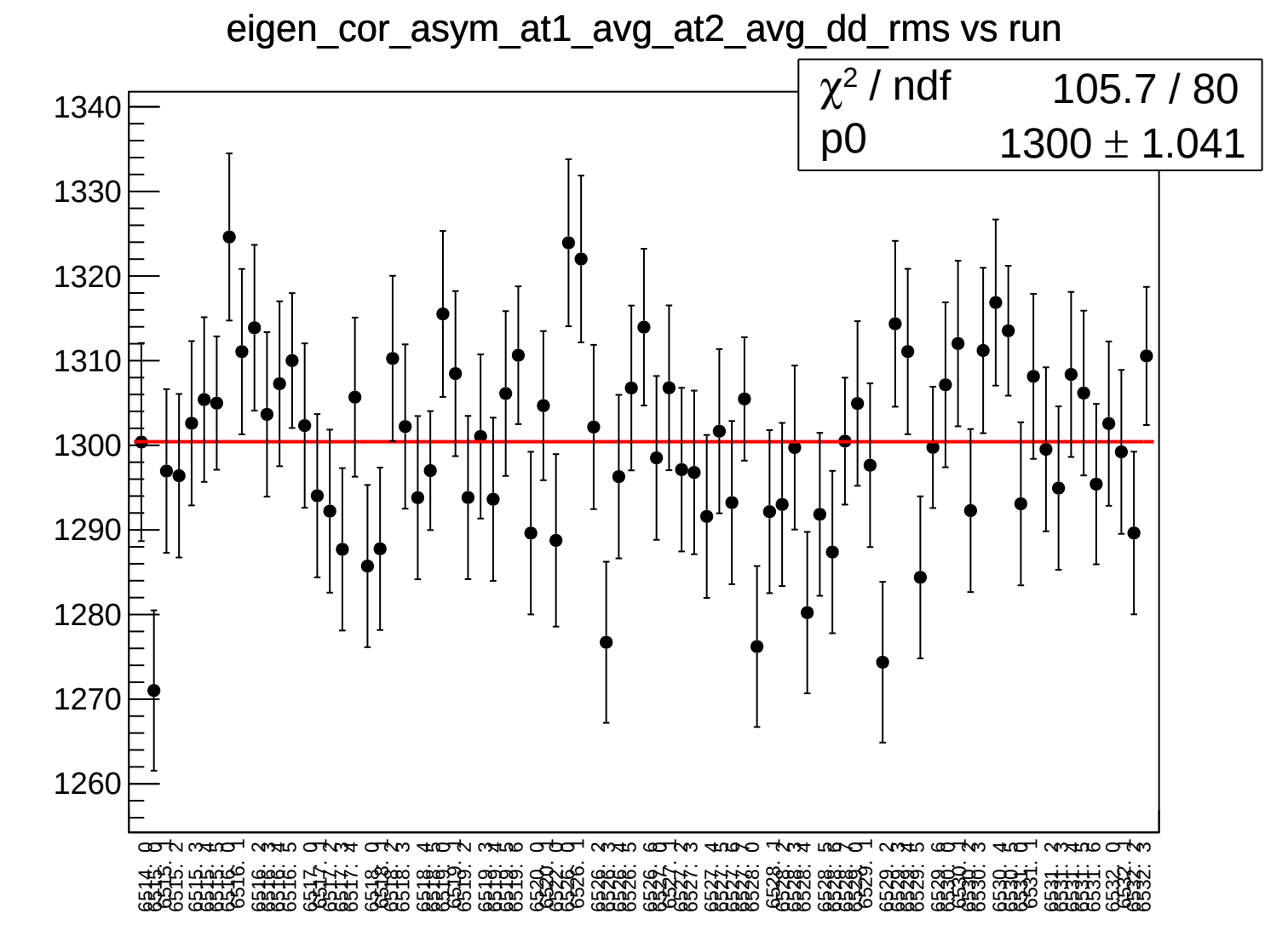

asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 87.96 / 80
p0 −3823 ± 4674
150
100
50
0
−50
−100
−150
−200
pull
Entries 81
Mean −56.72
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

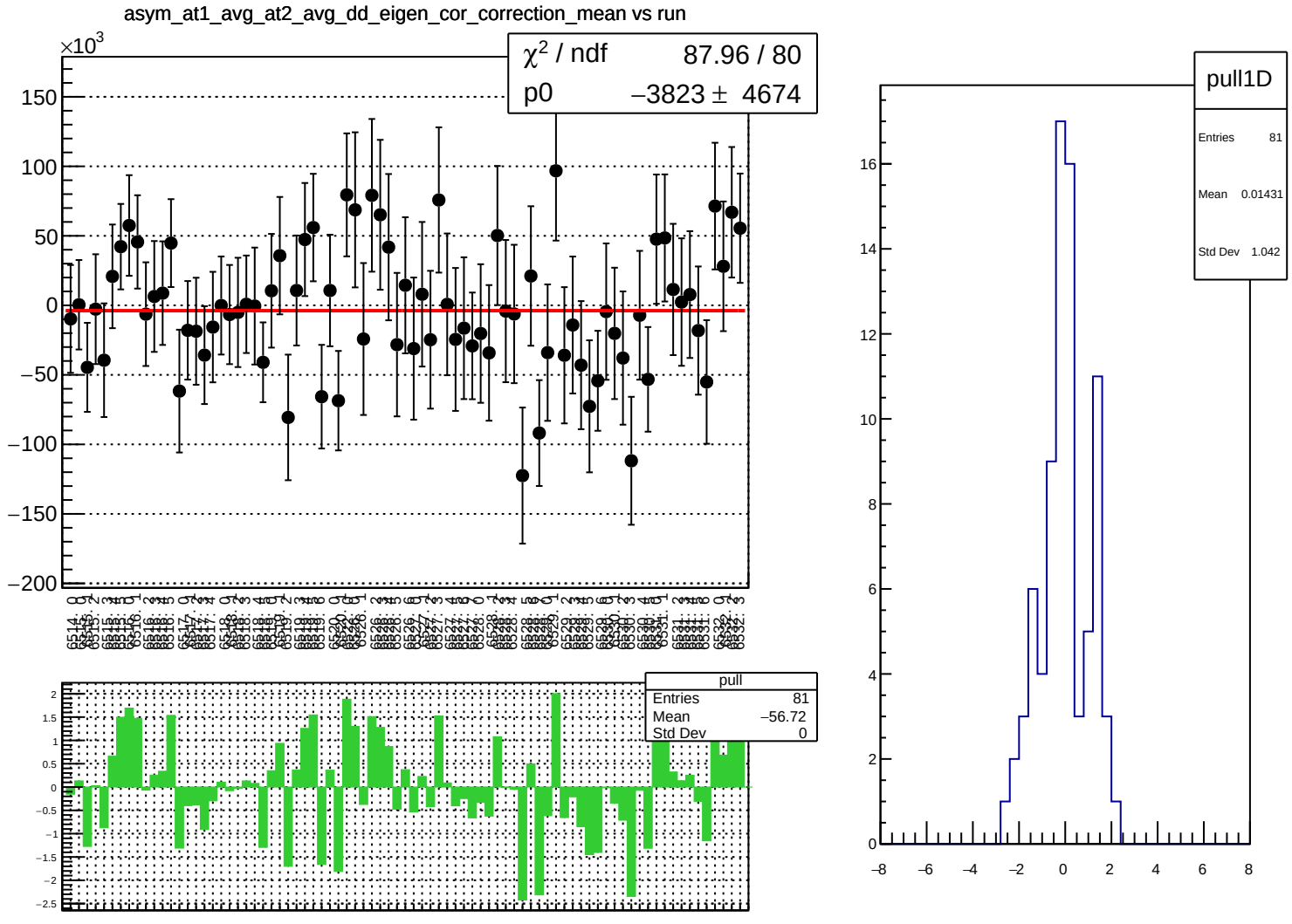

pull1D
Entries 81
Mean 0.01431
Std Dev 1.042
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

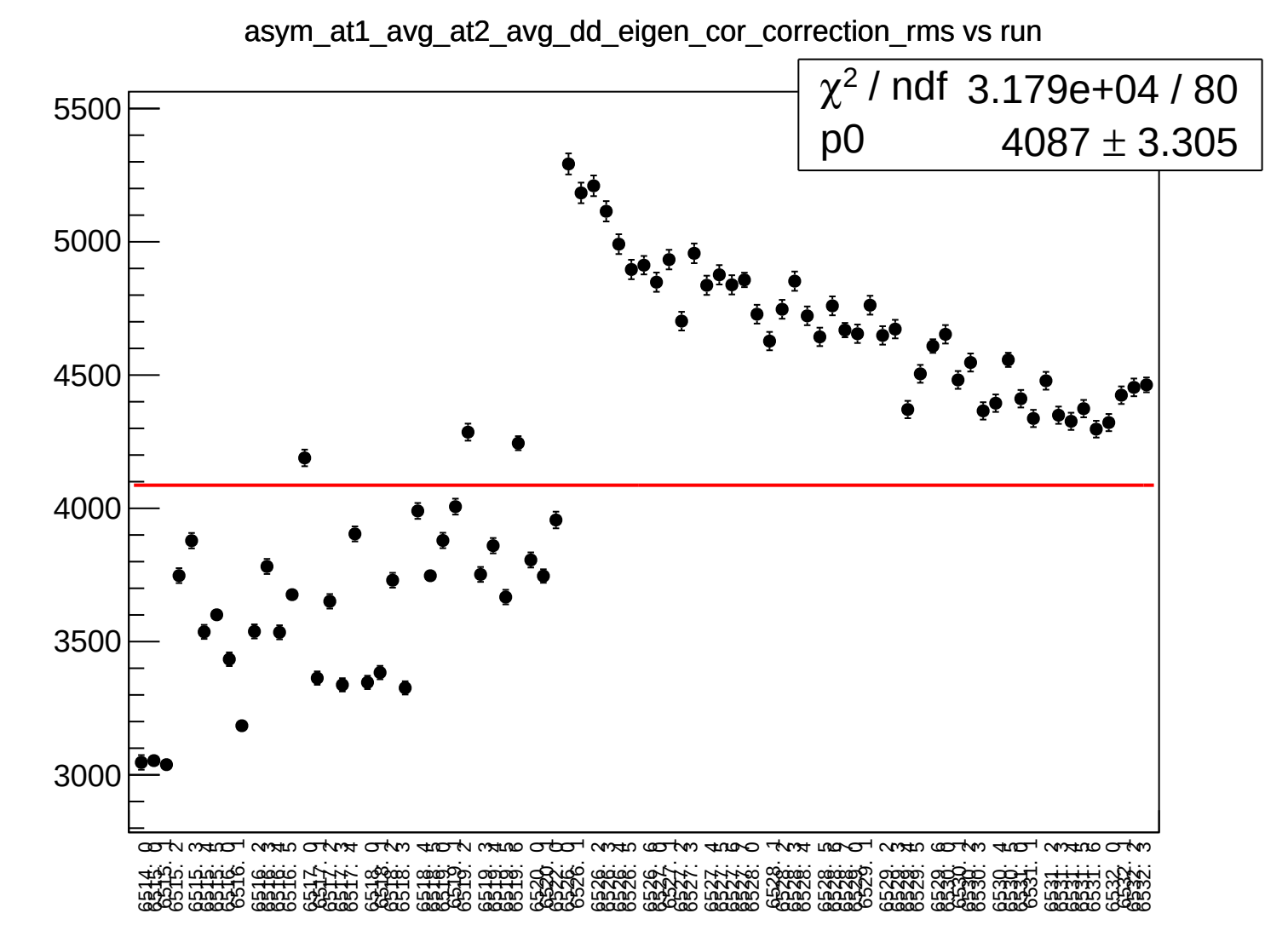

asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 3.179e+04 / 80
p0 4087 ± 3.305
5500
5000
4500
4000
3500
3000

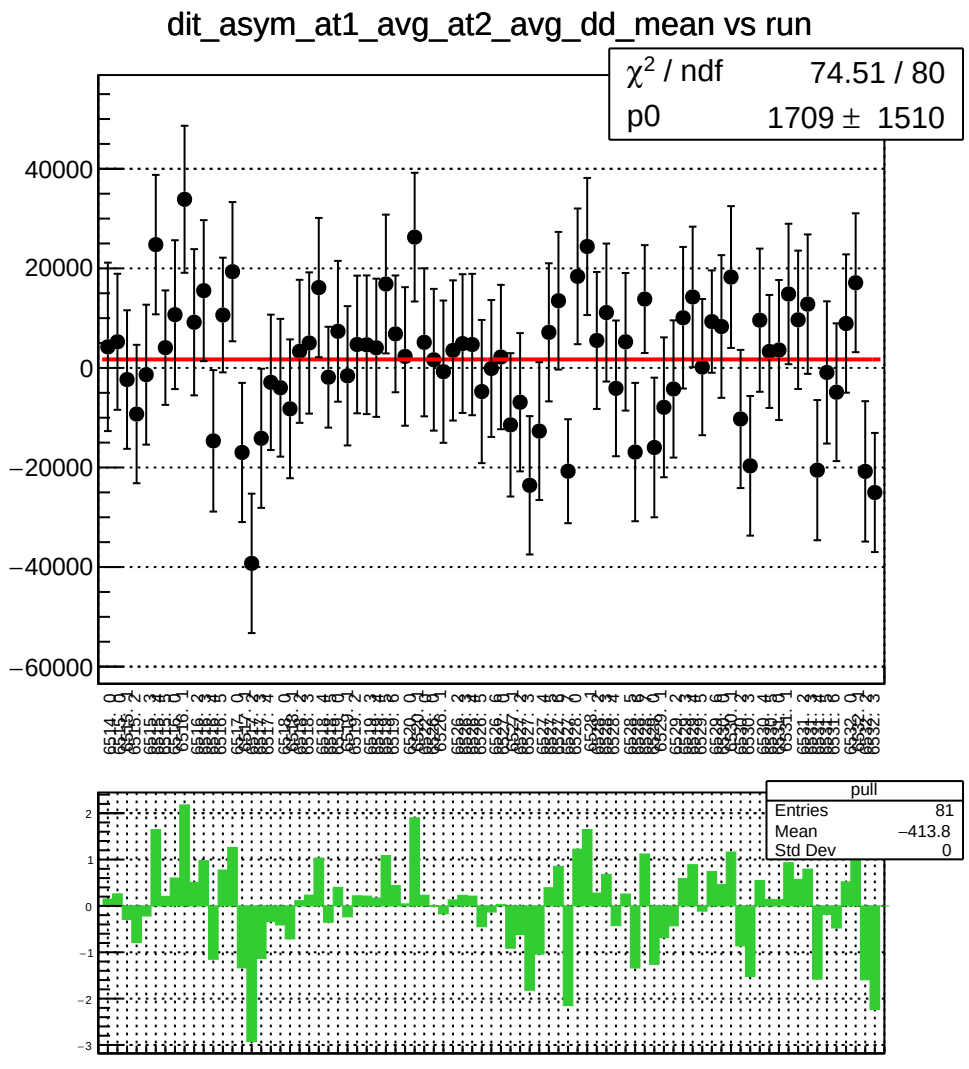

eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 71.85 / 80
p0 1749 ± 1472
pull
Entries 81
Mean 344
Std Dev 0

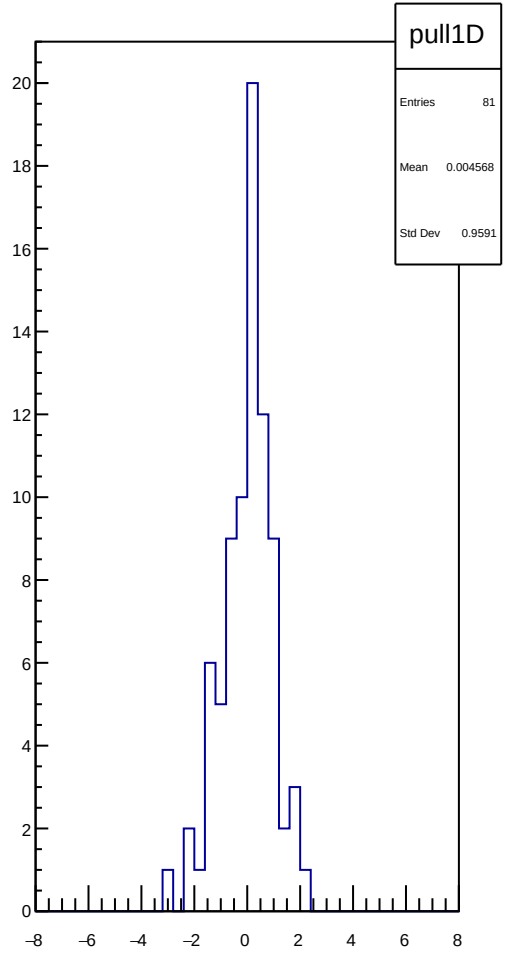

pull1D
Entries 81
Mean 0.002127
Std Dev 0.9418

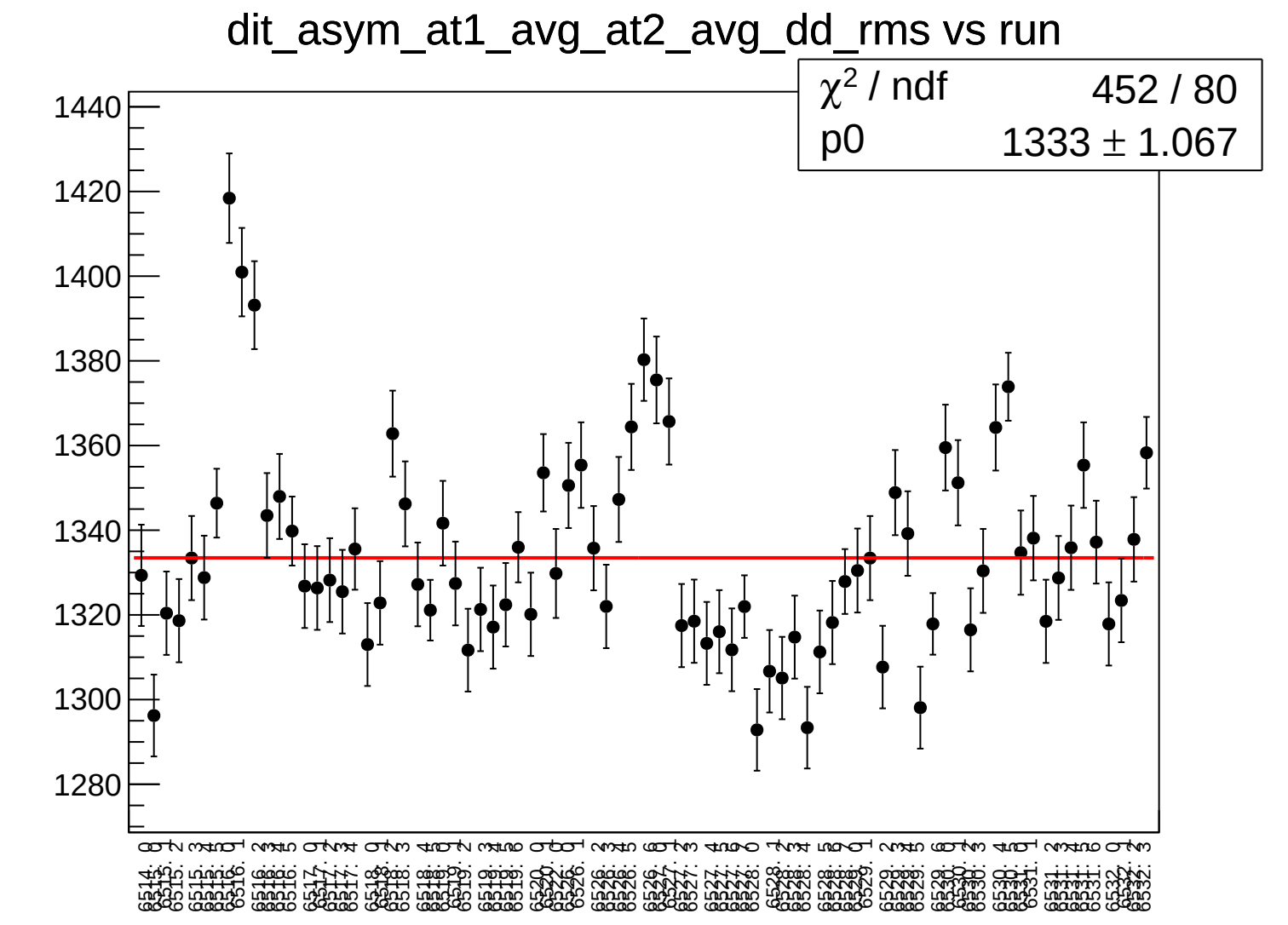

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 105.7 / 80
p0 1300 ± 1.041
1340
1330
1320
1310
1300
1290
1280
1270
1260

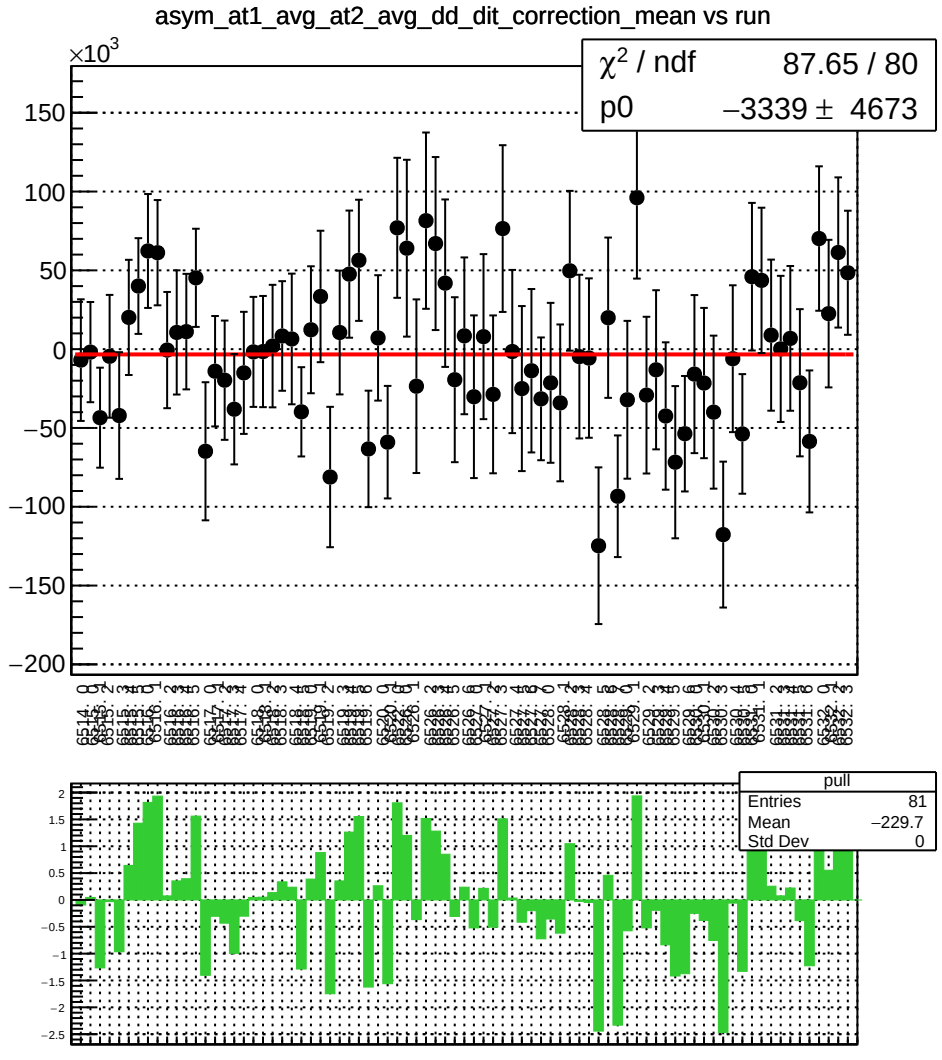

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 87.96 / 80
p0 −3823 ± 4674
150
100
50
0
−50
−100
−150
−200
pull
Entries 81
Mean −56.72
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 81
Mean 0.01431
Std Dev 1.042
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

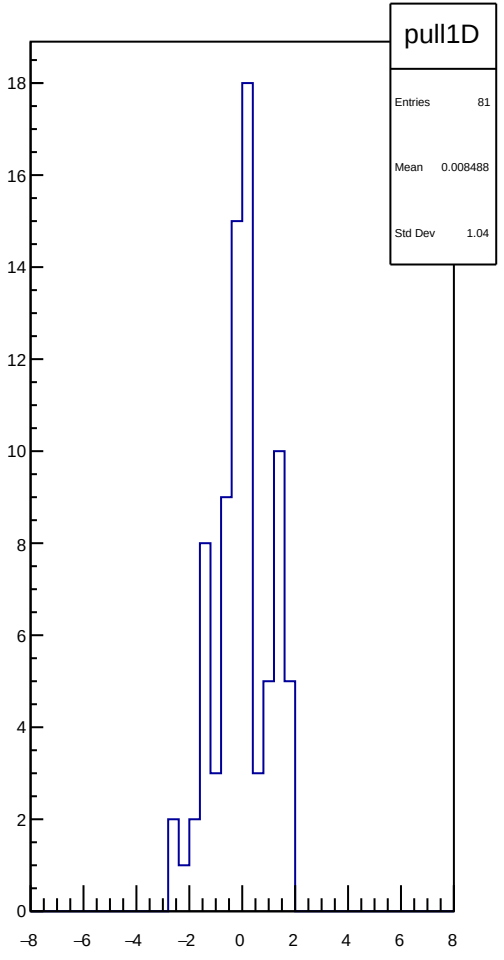

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.179e+04 / 80
p0 4087 ± 3.305
5500
5000
4500
4000
3500
3000

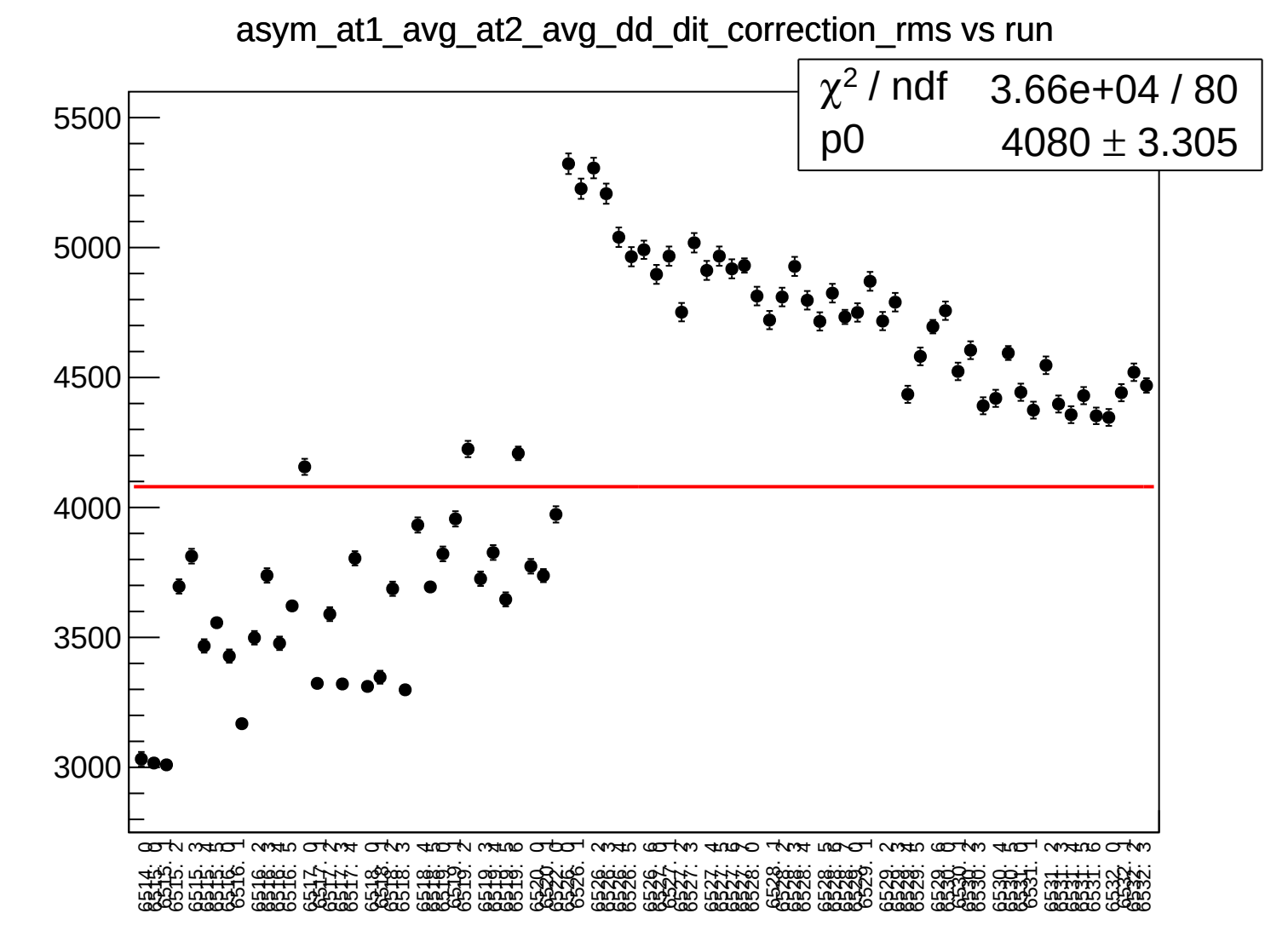

dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 74.51 / 80
p0 1709 ± 1510
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −413.8
Std Dev 0
2
1
0
−1
−2
−3

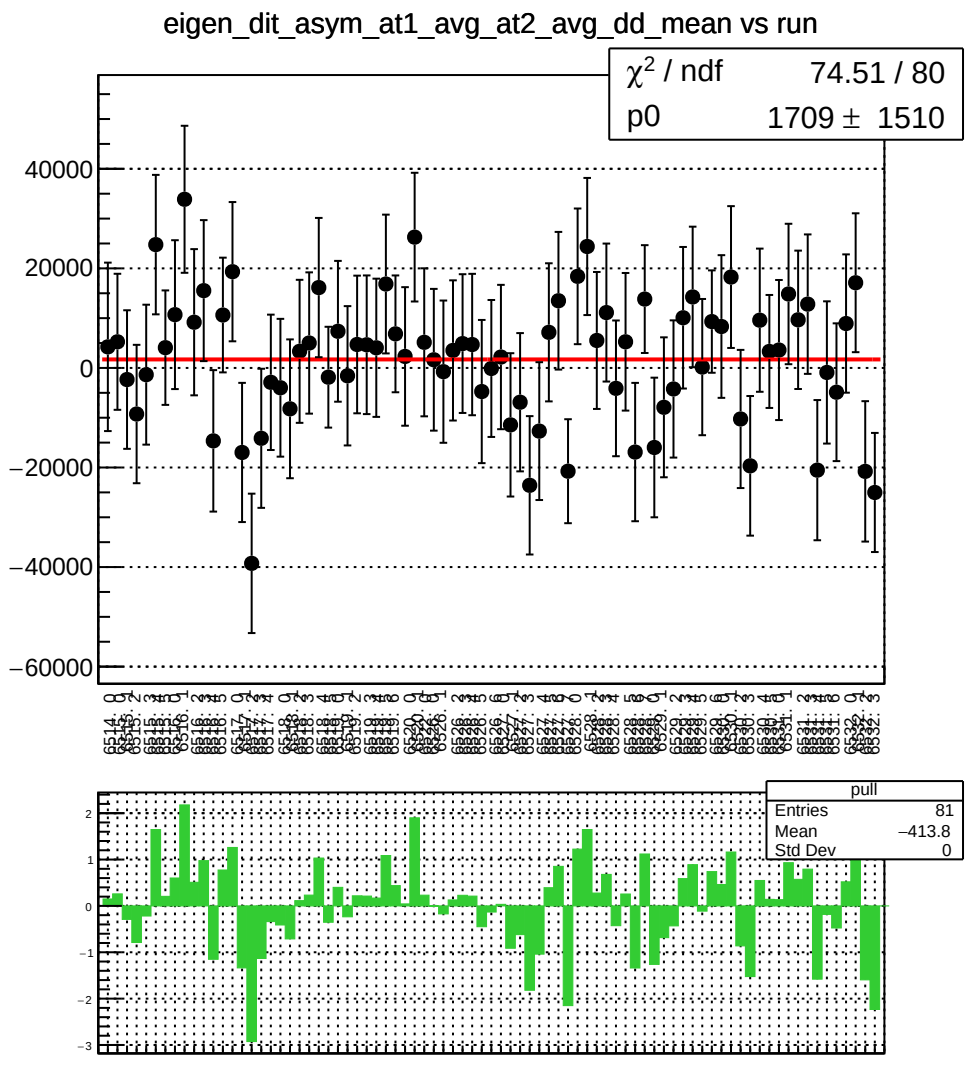

pull1D
Entries 81
Mean 0.004568
Std Dev 0.9591
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

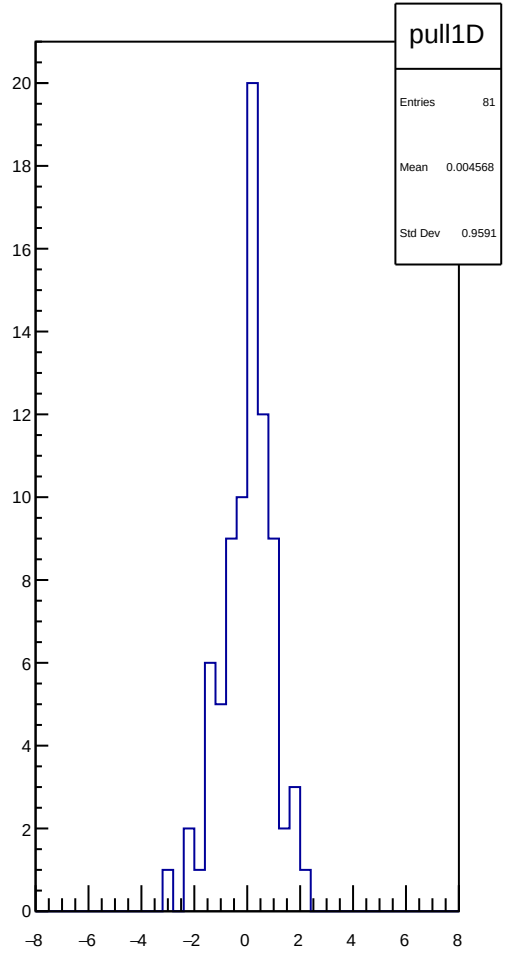

dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 452 / 80
p0 1333 ± 1.067
1440
1420
1400
1380
1360
1340
1320
1300
1280

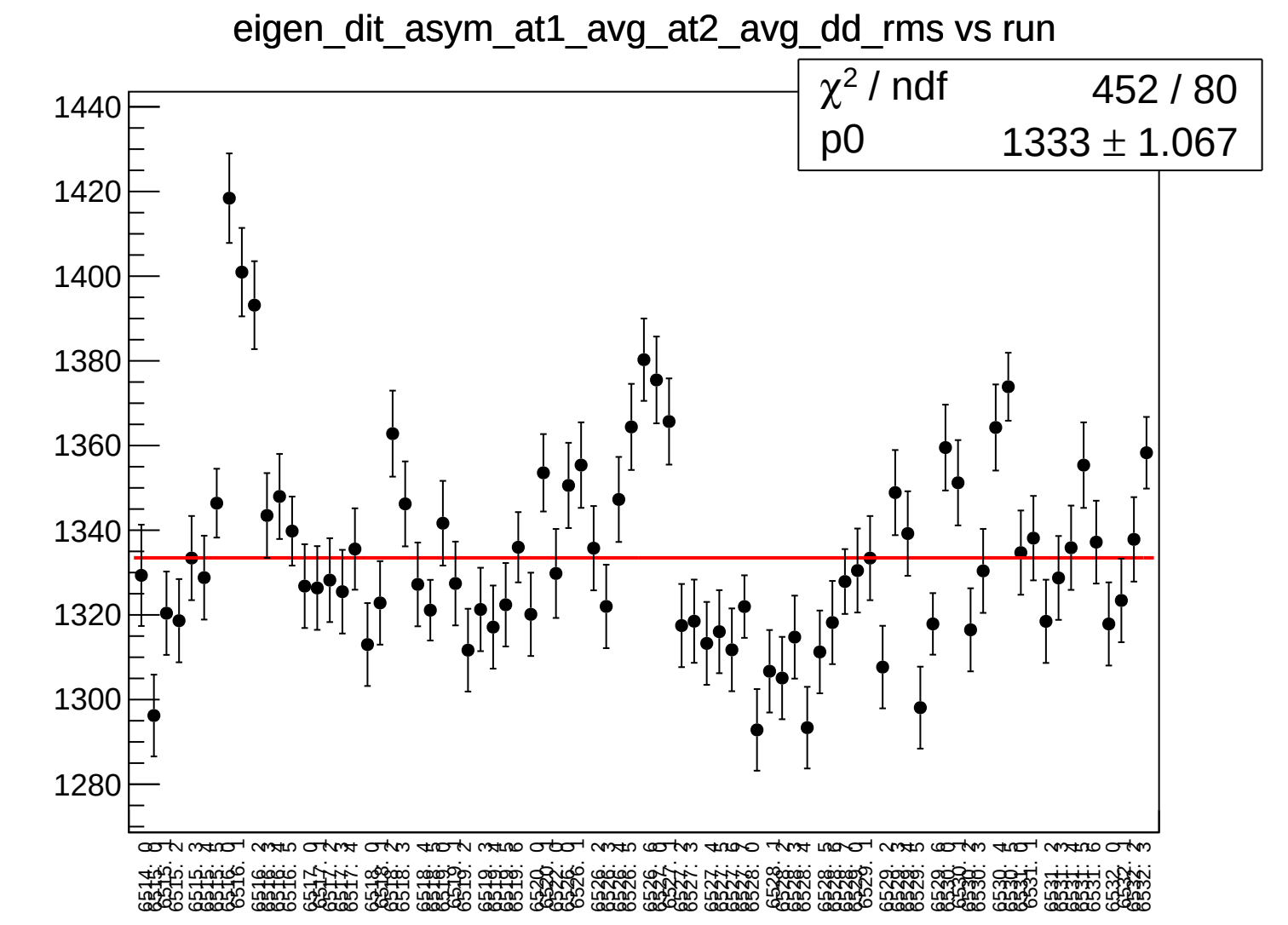

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 87.65 / 80
p0 −3339 ± 4673
150
100
50
0
−50
−100
−150
−200
pull
Entries 81
Mean −229.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

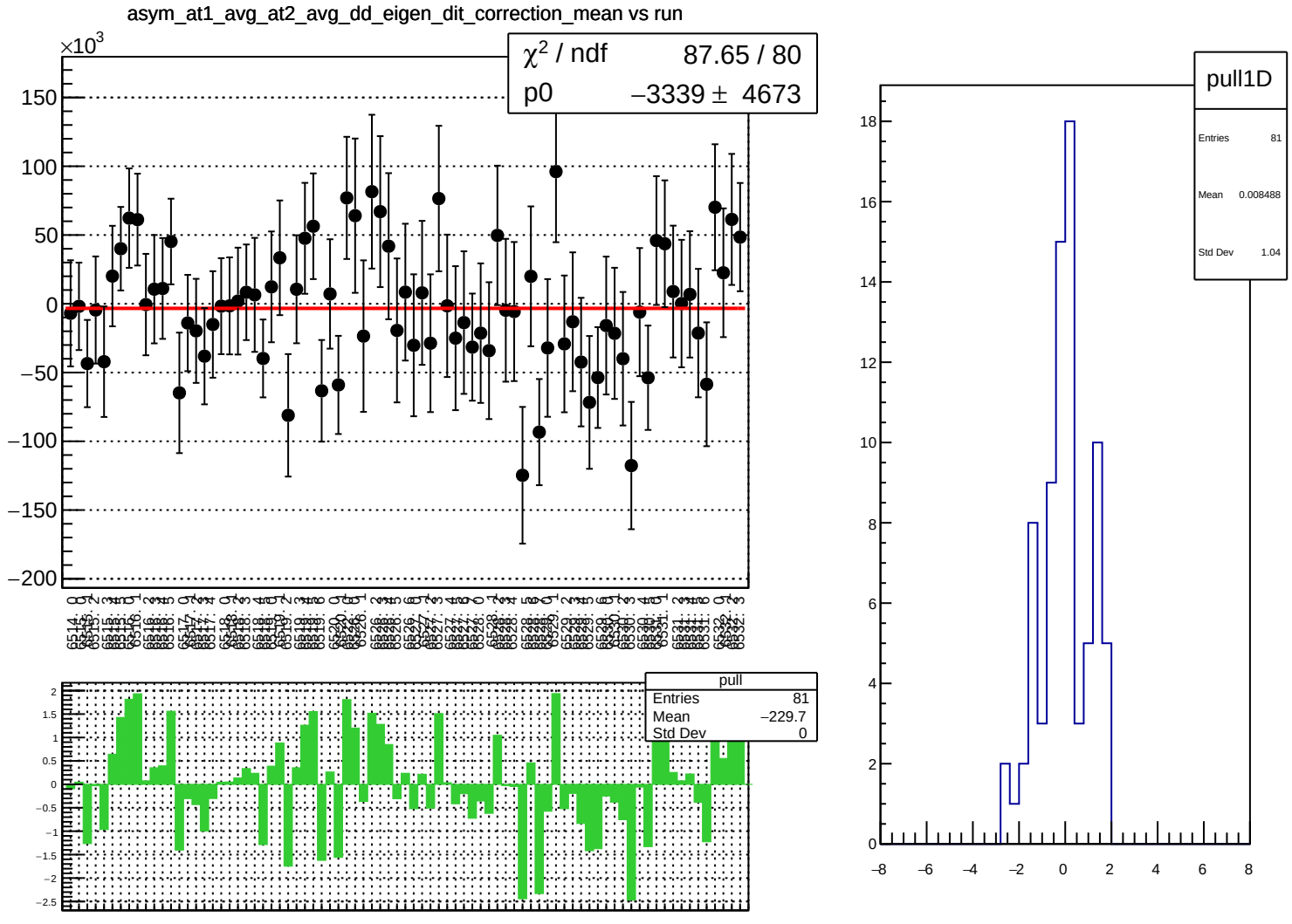

pull1D
Entries 81
Mean 0.008488
Std Dev 1.04
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

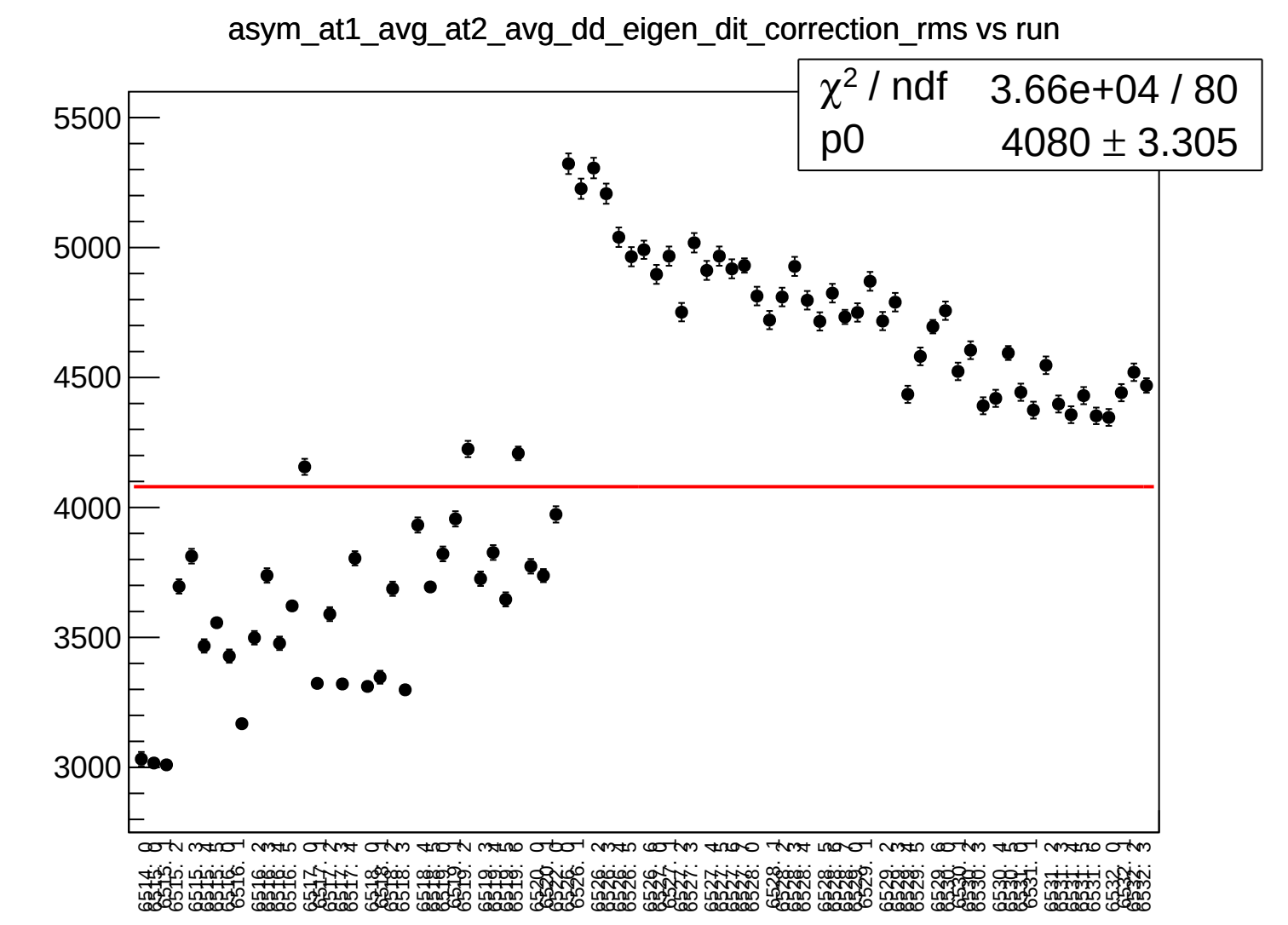

asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 3.66e+04 / 80
p0 4080 ± 3.305
5500
5000
4500
4000
3500
3000

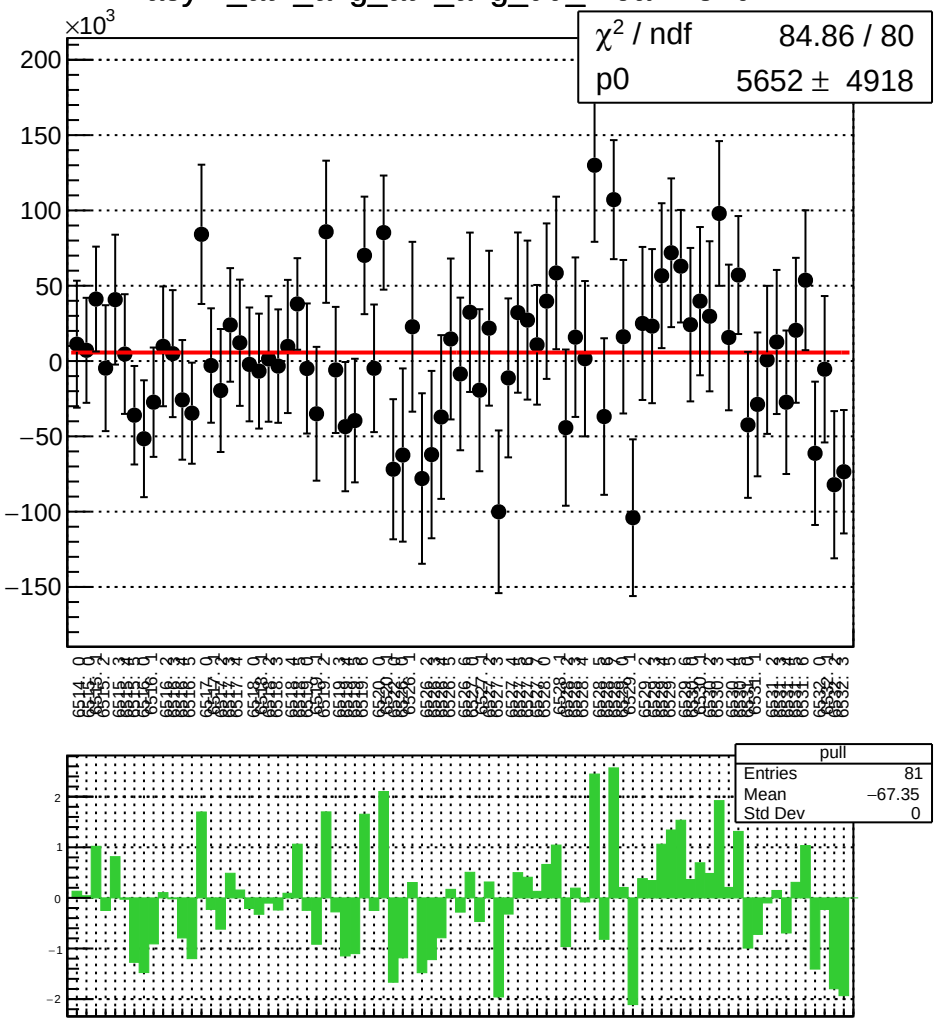

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 74.51 / 80
p0 1709 ± 1510
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −413.8
Std Dev 0
2
1
0
−1
−2
−3

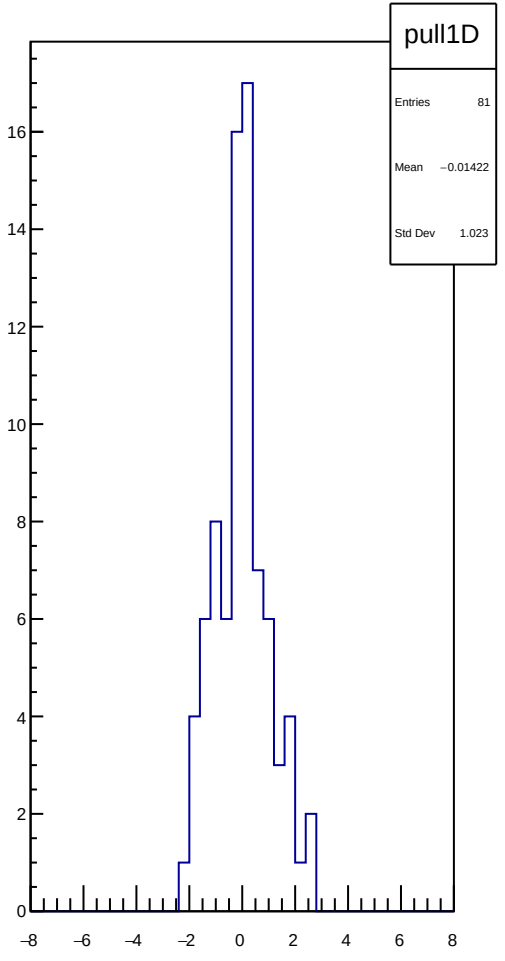

pull1D
Entries 81
Mean 0.004568
Std Dev 0.9591
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

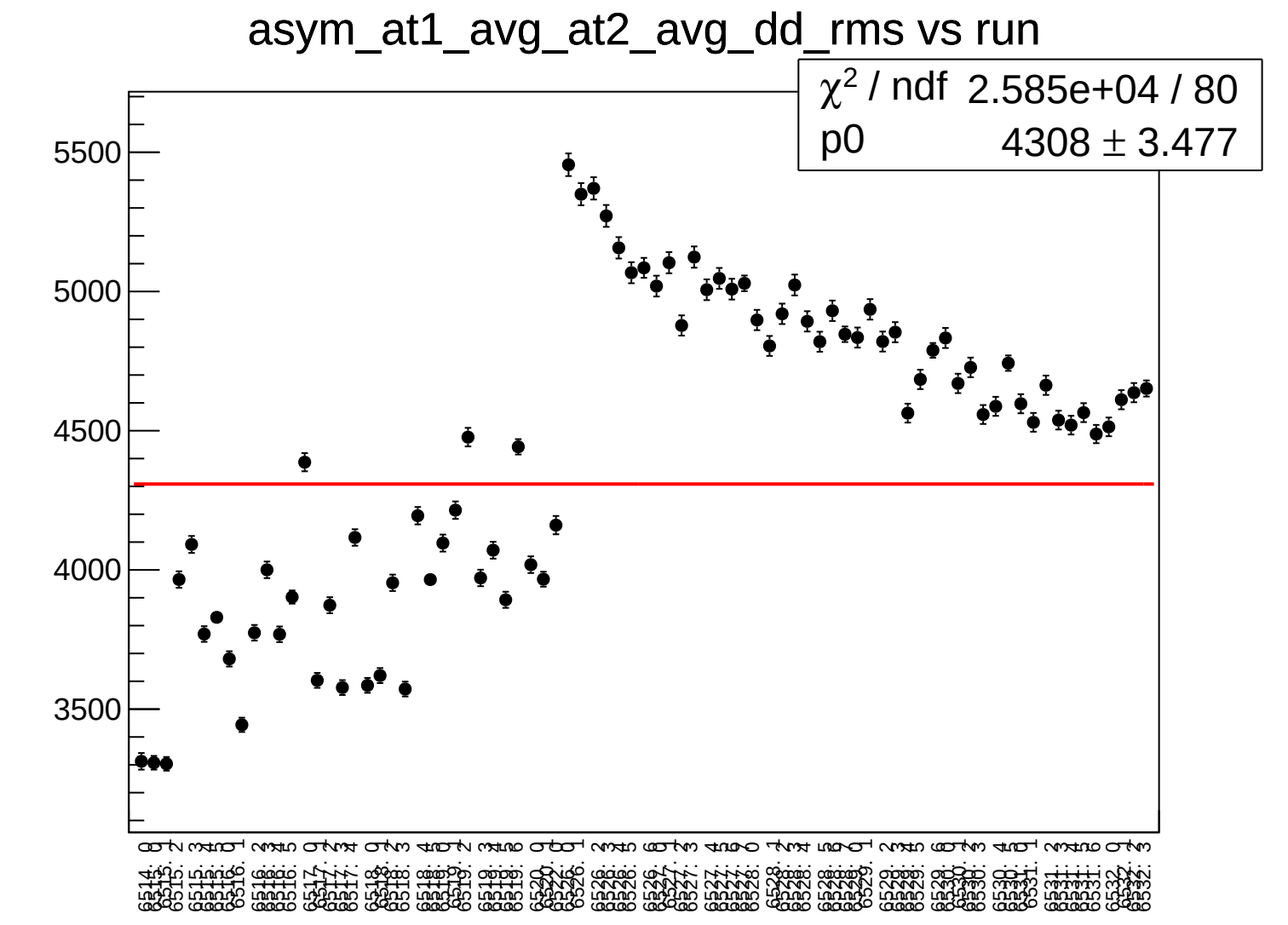

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 452 / 80
p0 1333 ± 1.067
1440
1420
1400
1380
1360
1340
1320
1300
1280

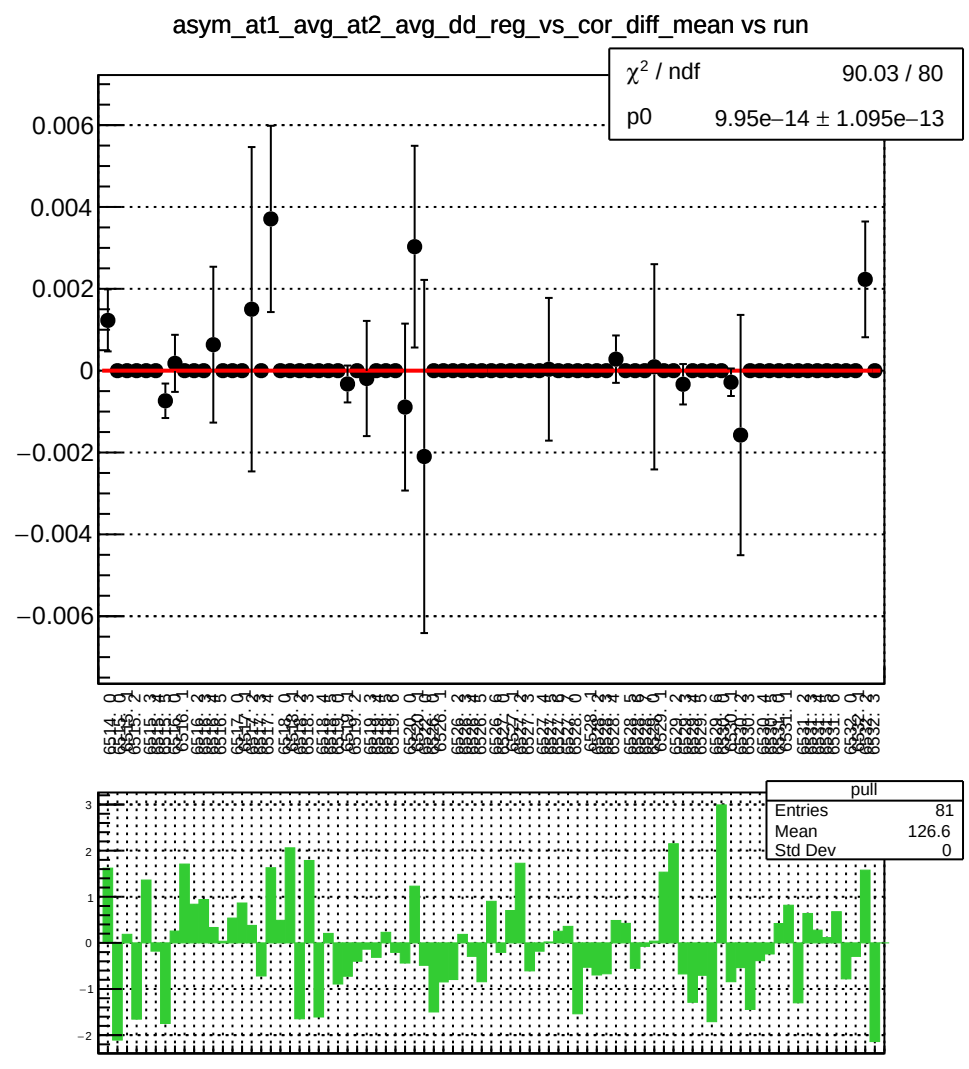

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 87.65 / 80
p0 −3339 ± 4673
150
100
50
0
−50
−100
−150
−200
pull
Entries 81
Mean −229.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 81
Mean 0.008488
Std Dev 1.04
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

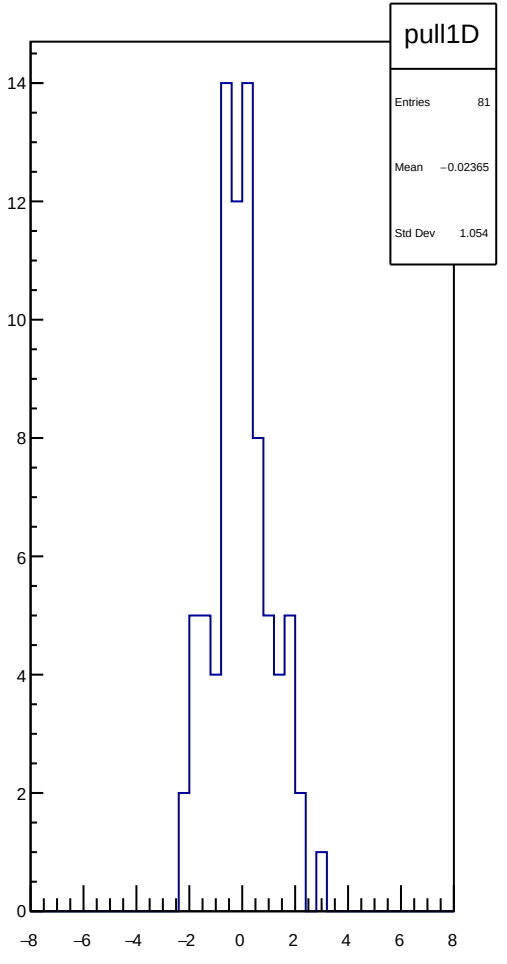

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.66e+04 / 80
p0 4080 ± 3.305
5500
5000
4500
4000
3500
3000

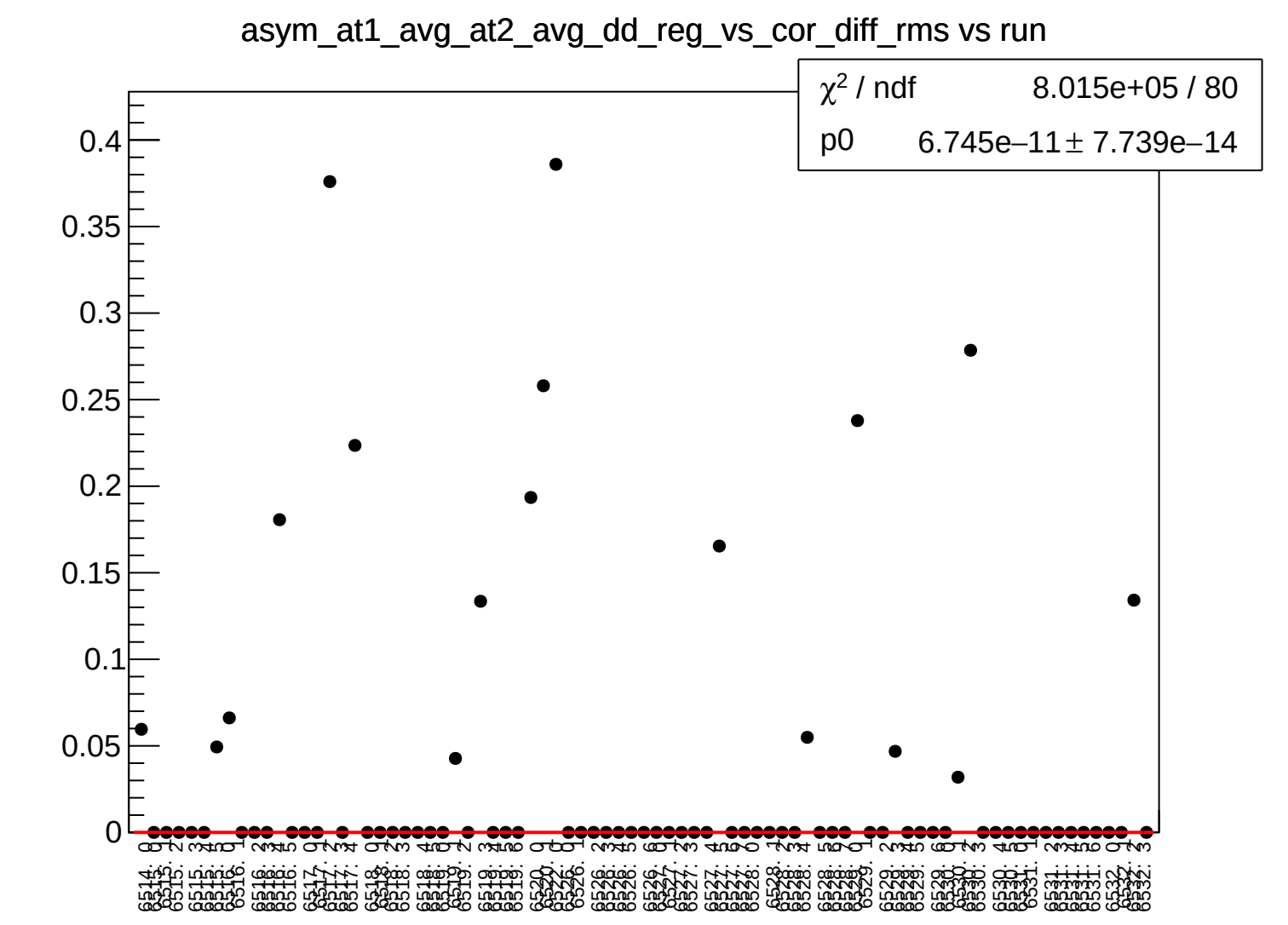

asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 84.86 / 80
p0 5652 ± 4918
pull
Entries 81
Mean −67.35
Std Dev 0

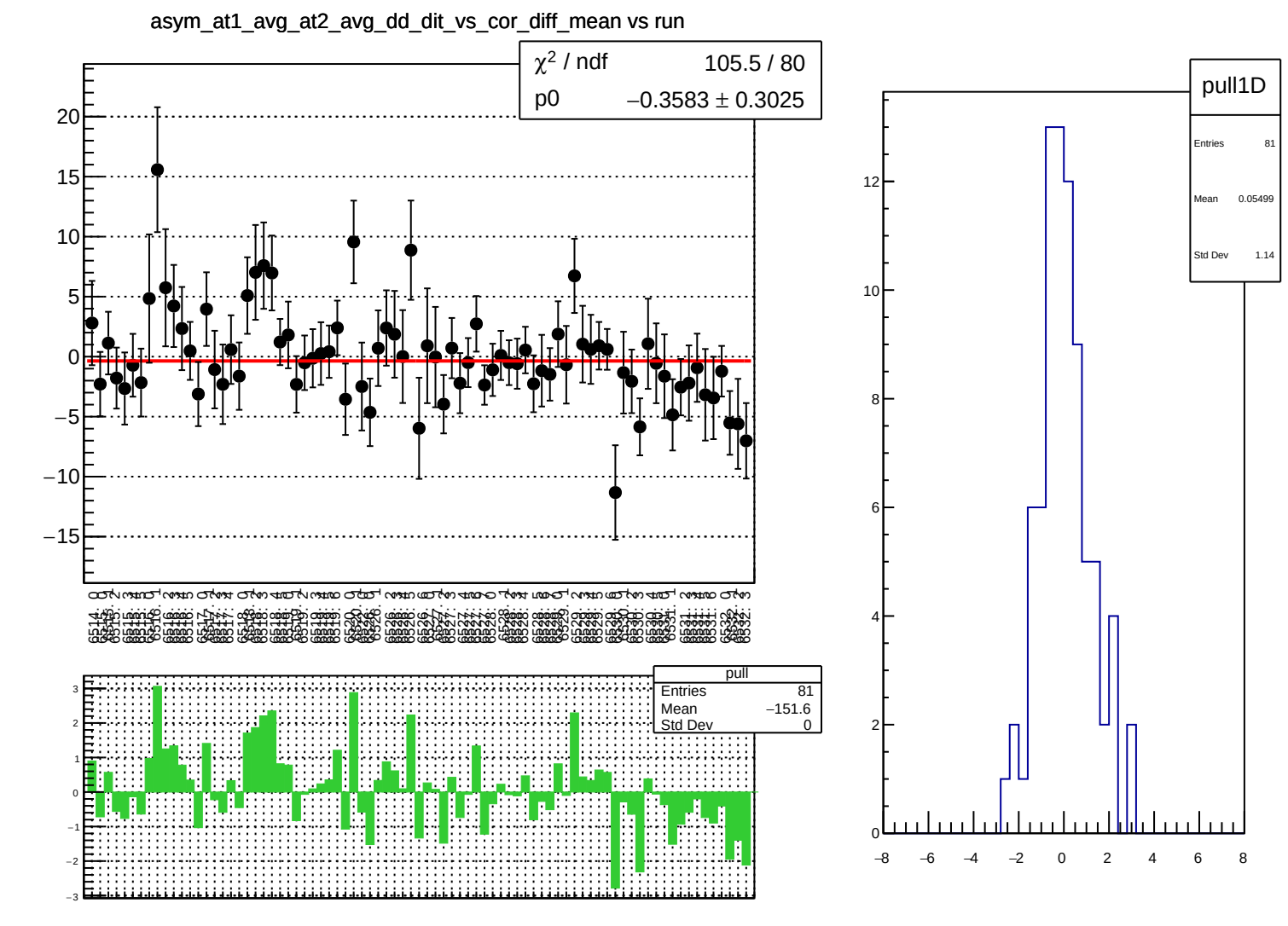

pull1D
Entries 81
Mean −0.01422
Std Dev 1.023

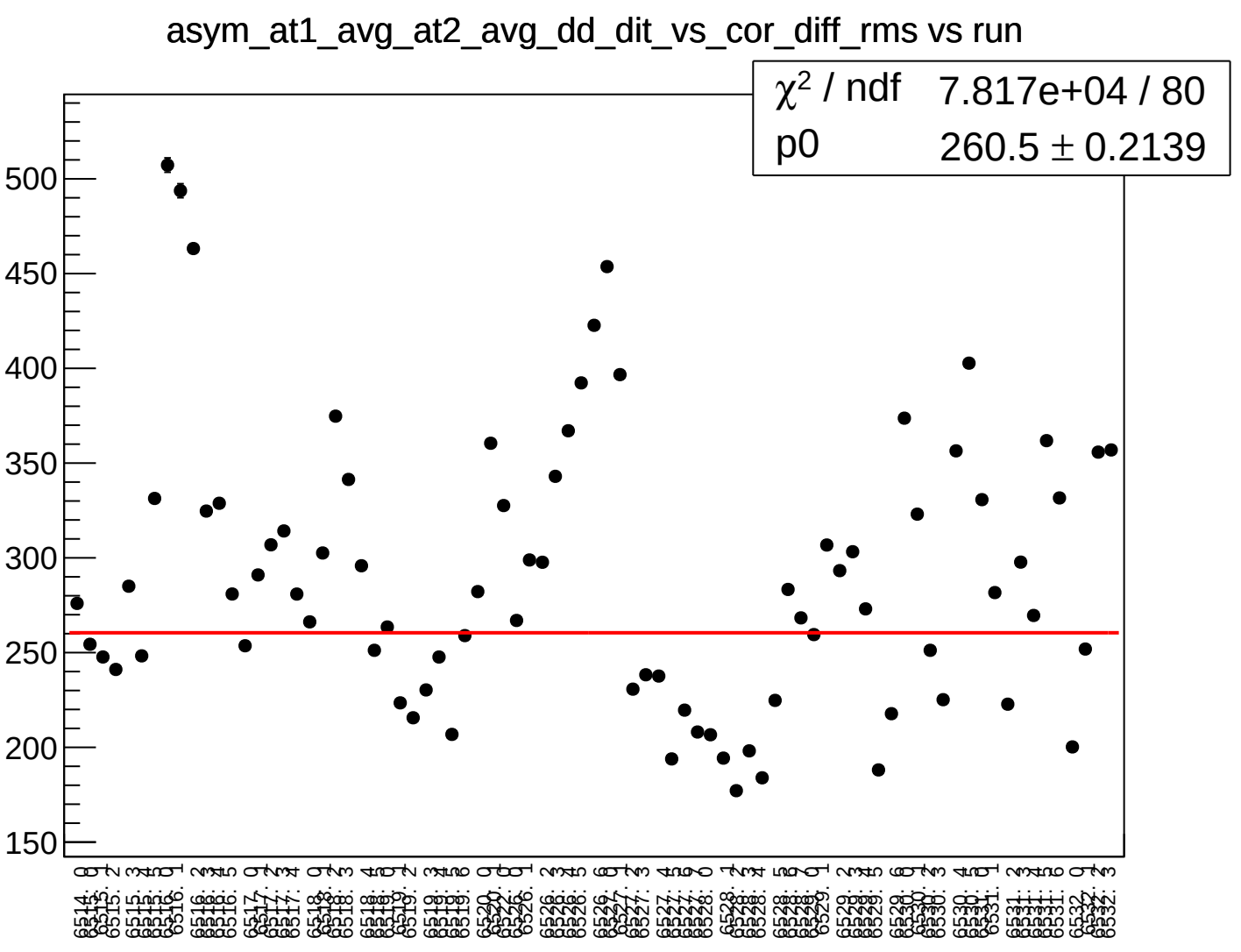

asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 2.585e+04 / 80
p0 4308 ± 3.477
5500
5000
4500
4000
3500

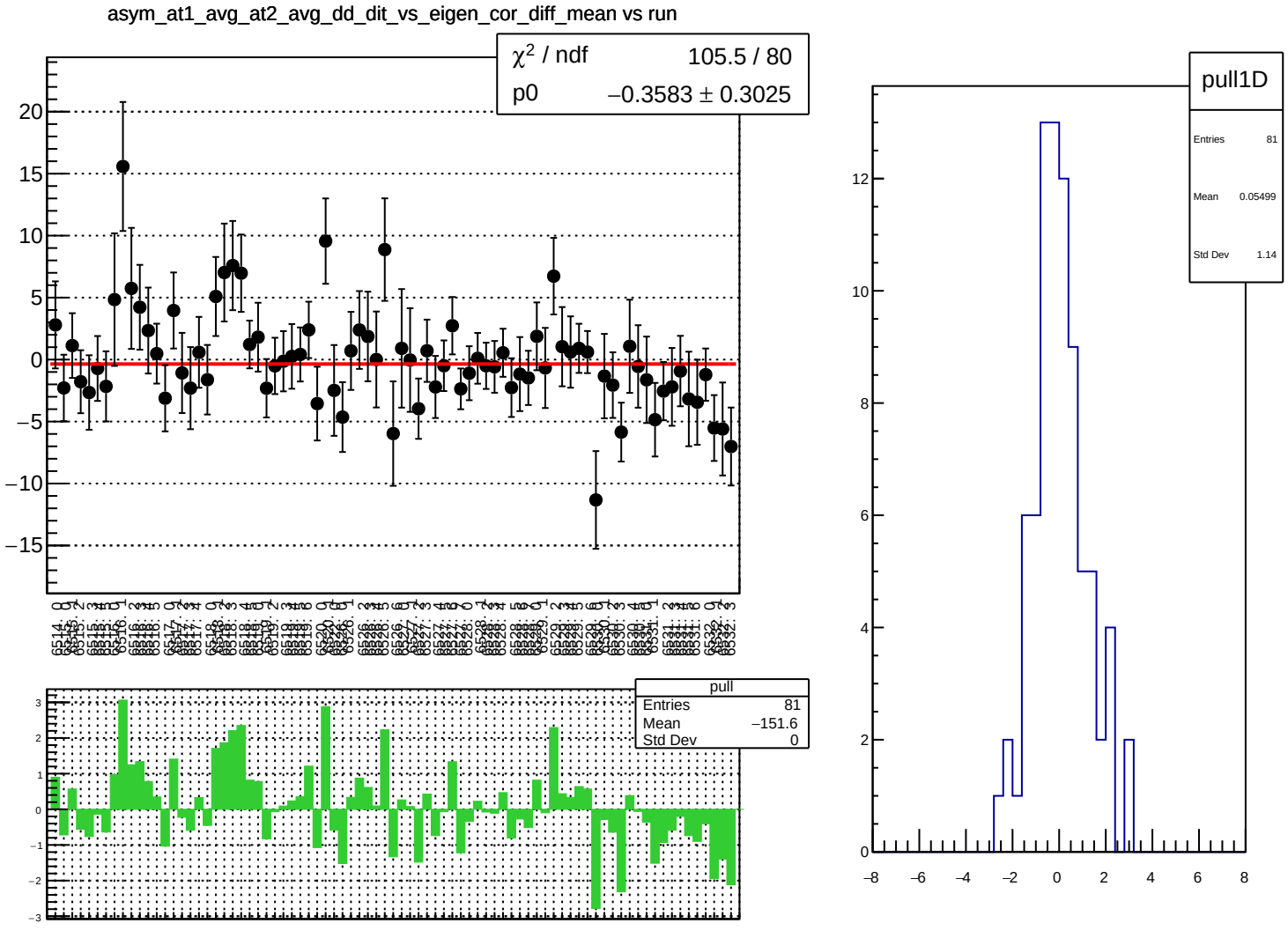

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 90.03 / 80
p0 9.95e−14 ± 1.095e−13
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
pull
Entries 81
Mean 126.6
Std Dev 0
3
2
1
0
−1
−2

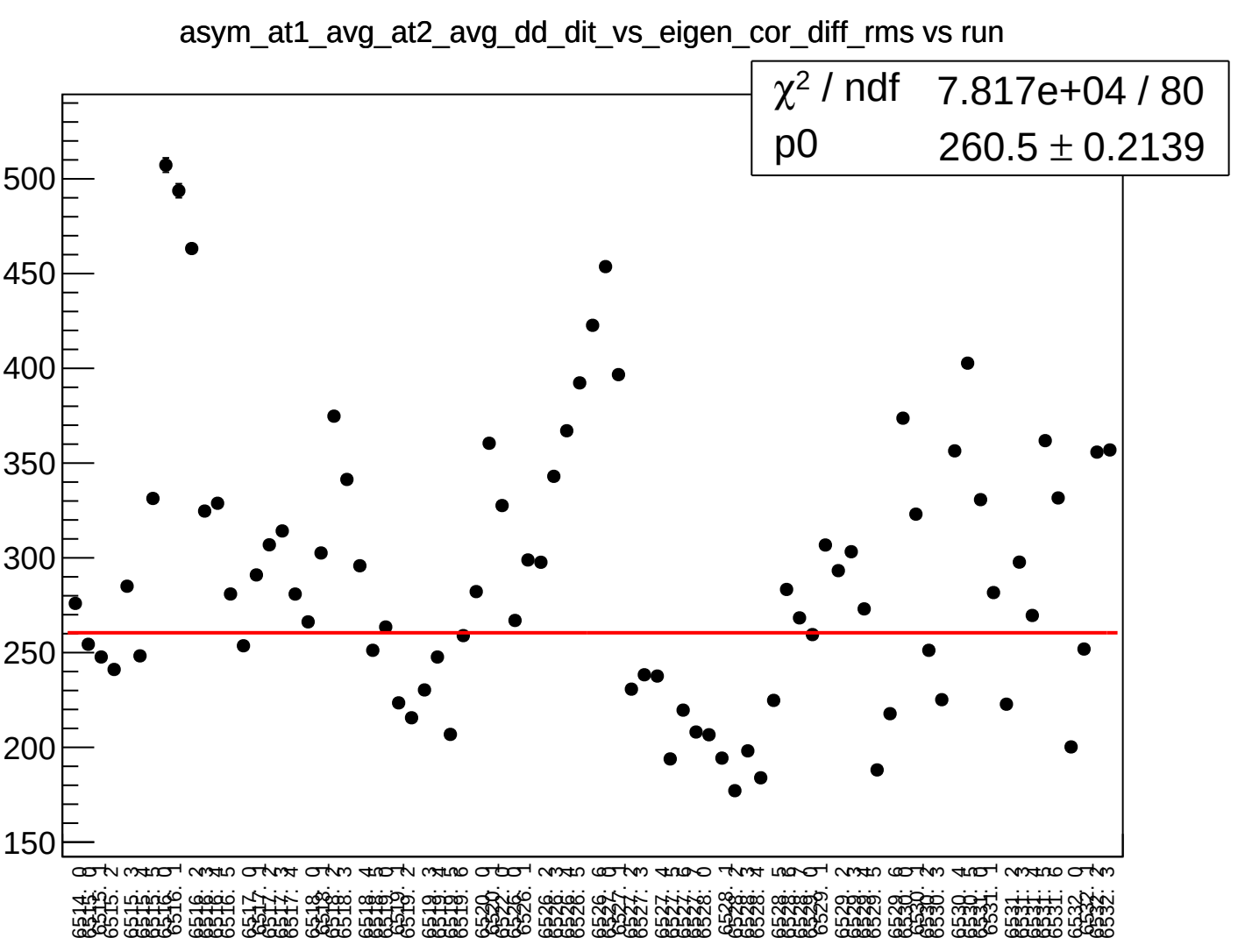

pull1D
Entries 81
Mean −0.02365
Std Dev 1.054
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

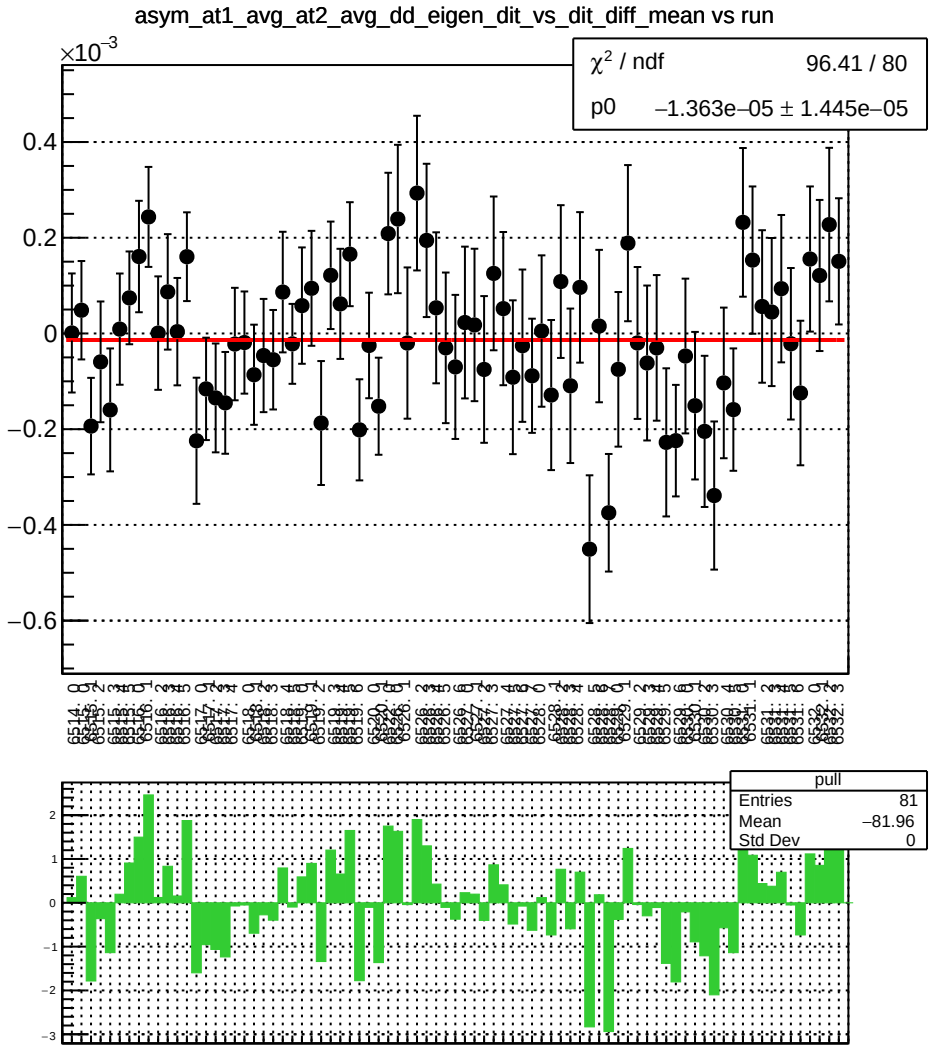

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.015e+05 / 80
p0 6.745e−11 ± 7.739e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0

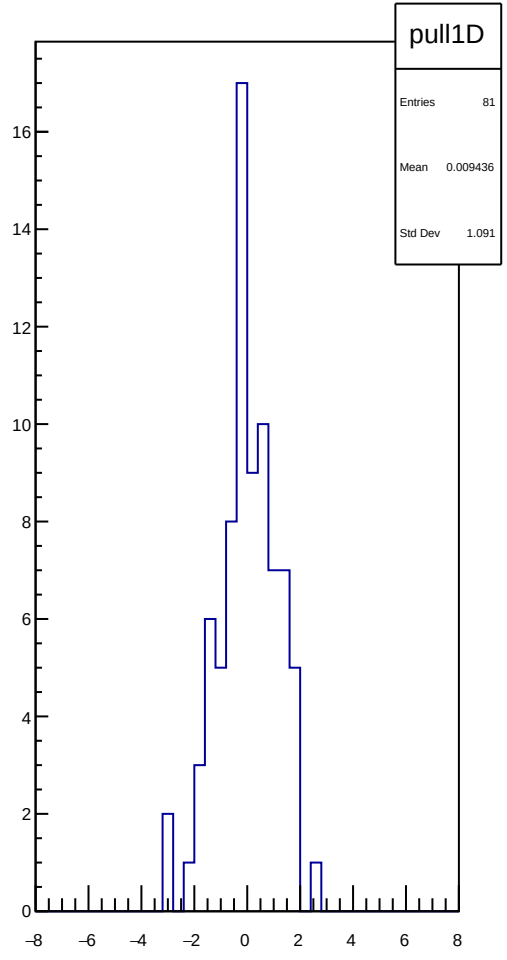

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 105.5 / 80
p0 −0.3583 ± 0.3025
pull
Entries 81
Mean −151.6
Std Dev 0
pull1D
Entries 81
Mean 0.05499
Std Dev 1.14

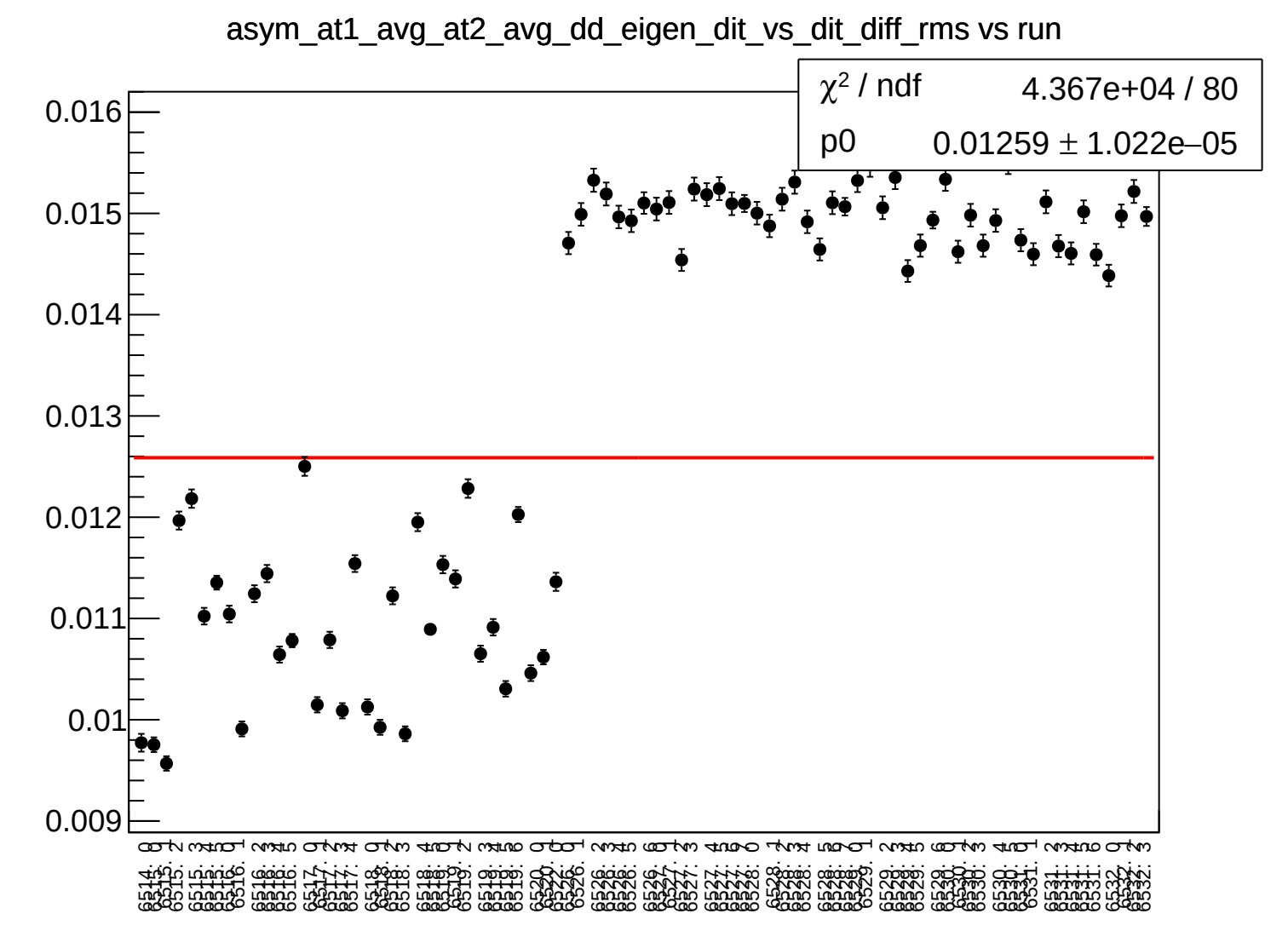

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.817e+04 / 80
p0 260.5 ± 0.2139
500
450
400
350
300
250
200
150

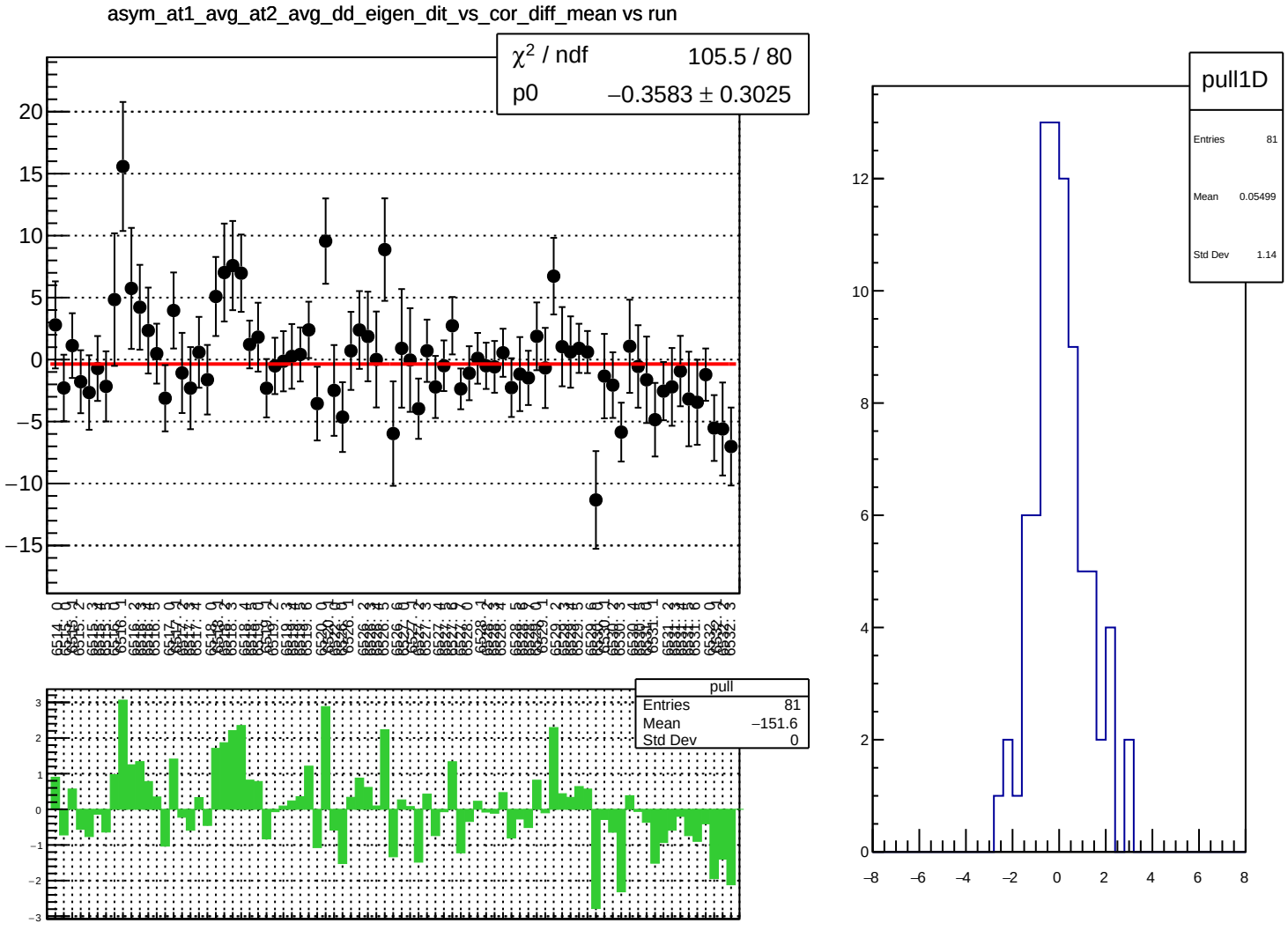

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.5 / 80
p0 −0.3583 ± 0.3025
pull
Entries 81
Mean −151.6
Std Dev 0
pull1D
Entries 81
Mean 0.05499
Std Dev 1.14

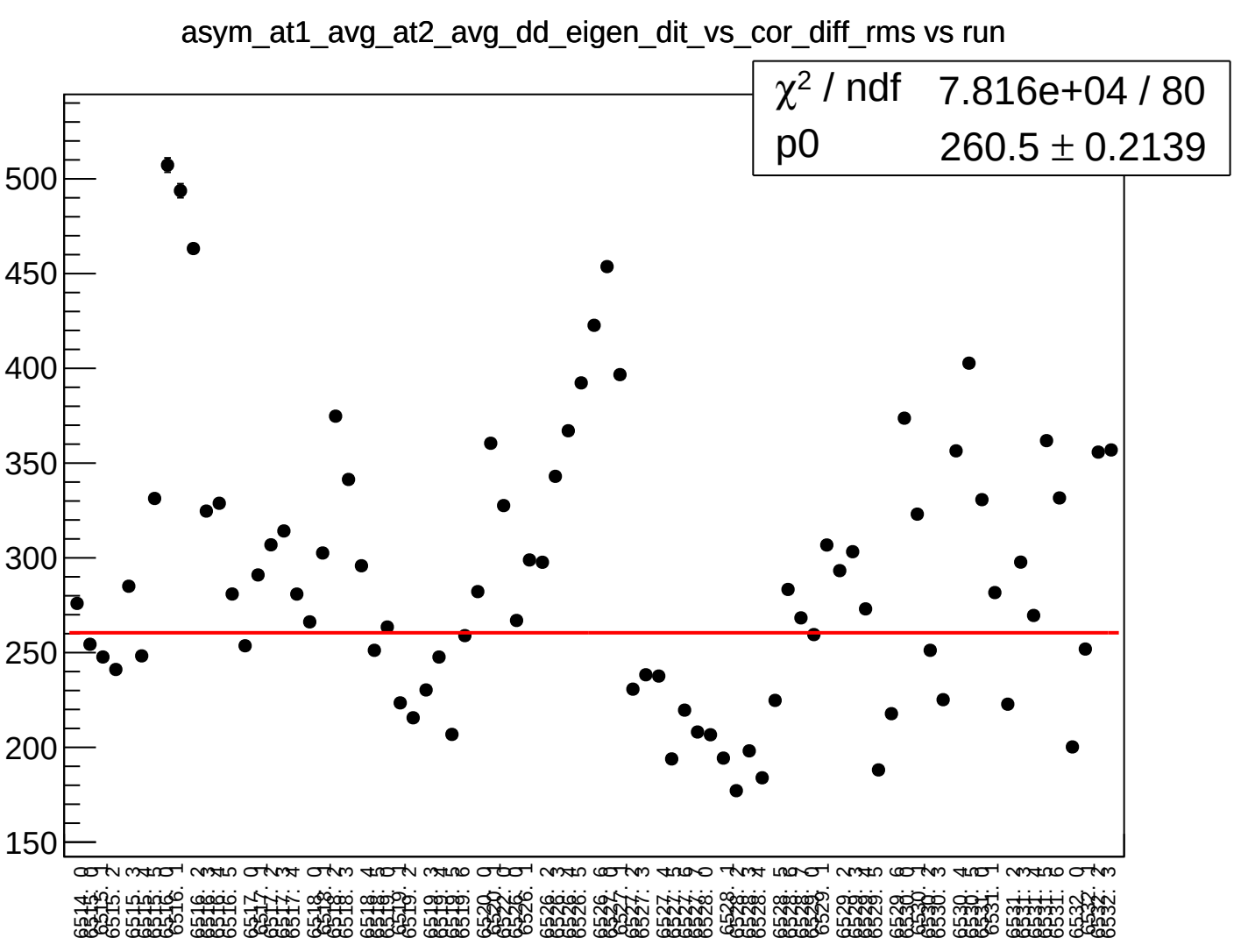

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.817e+04 / 80
p0 260.5 ± 0.2139
500
450
400
350
300
250
200
150

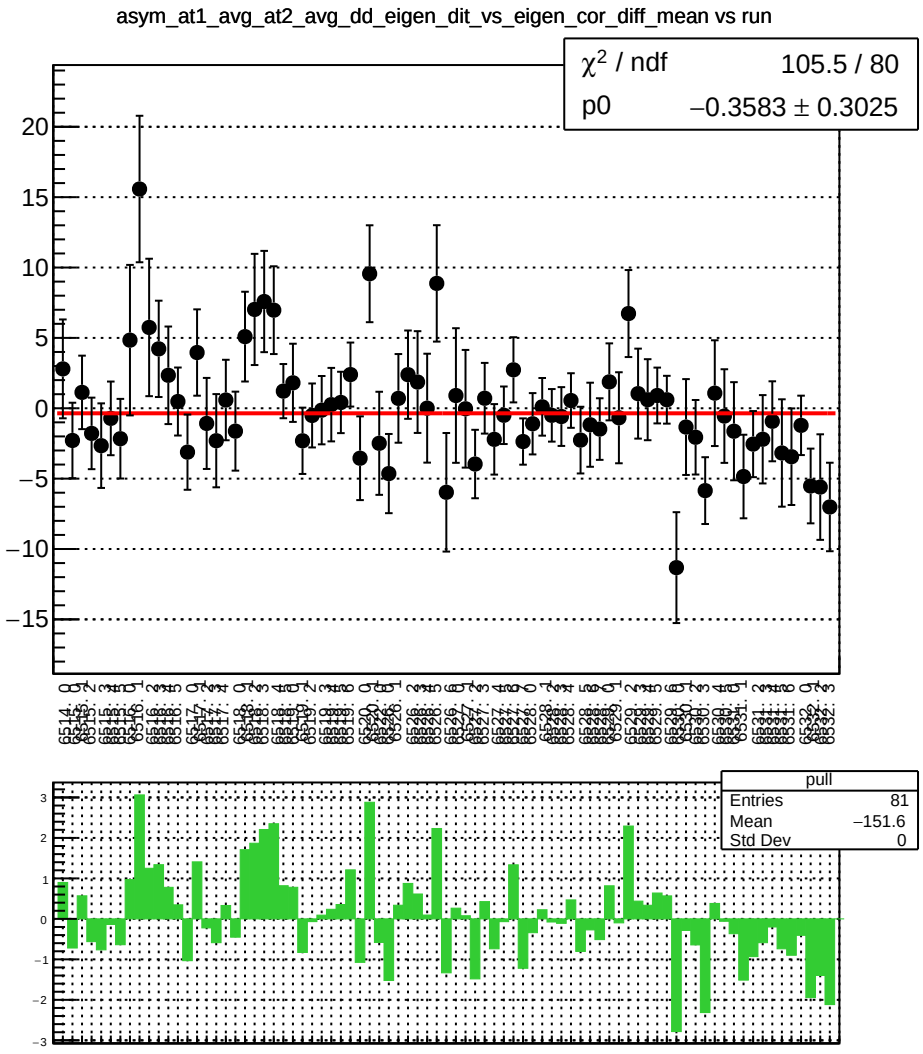

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.41 / 80
p0 −1.363e−05 ± 1.445e−05
pull
Entries 81
Mean −81.96
Std Dev 0

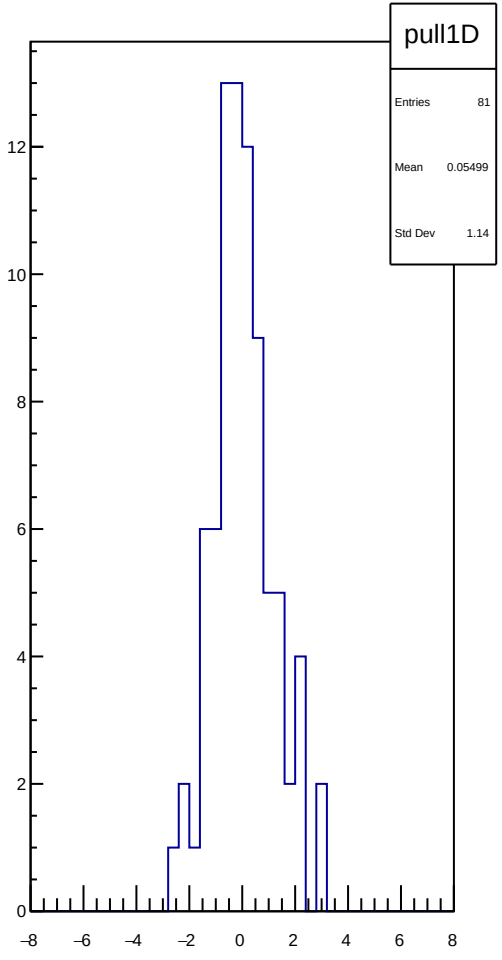

pull1D
Entries 81
Mean 0.009436
Std Dev 1.091

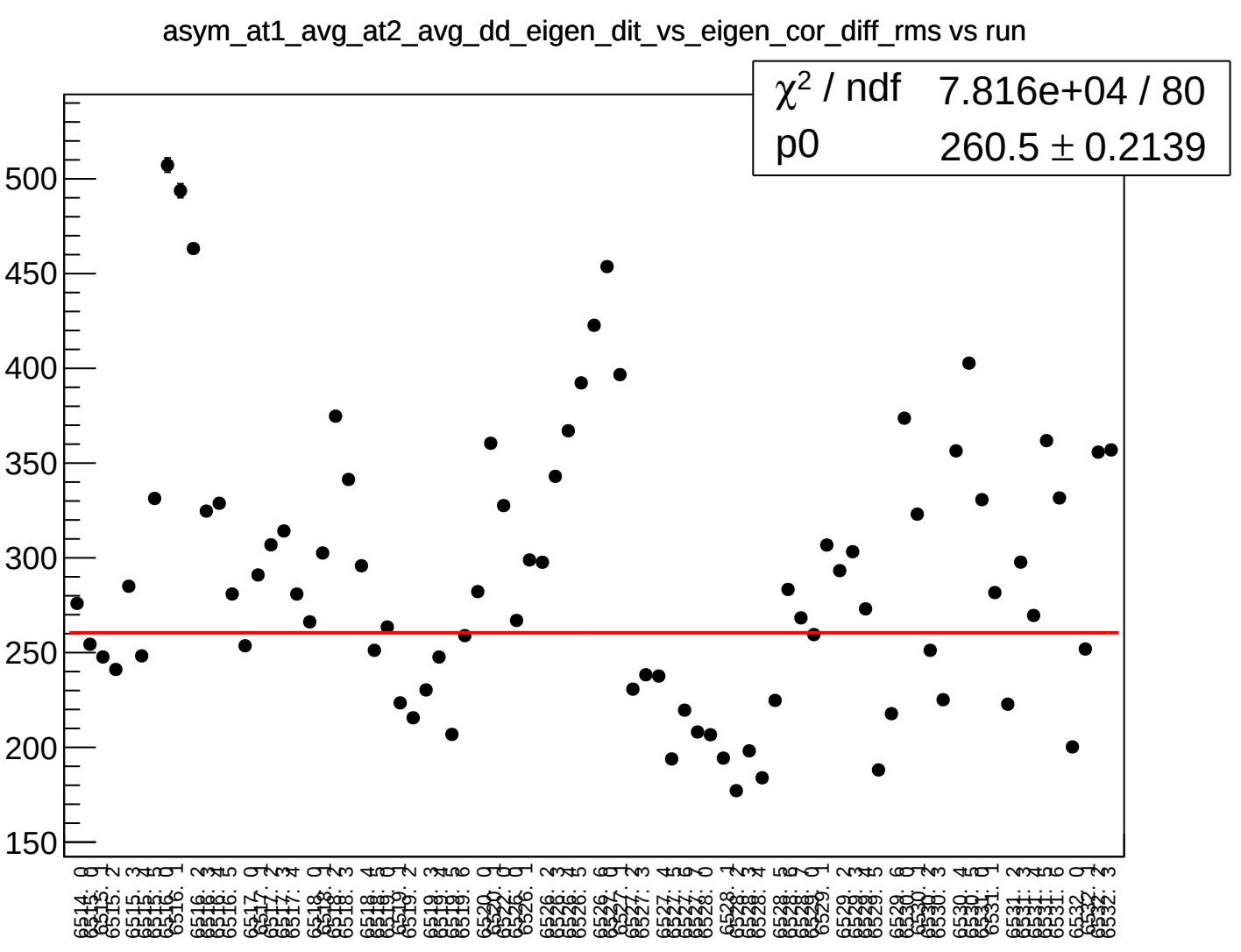

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.367e+04 / 80
p0 0.01259 ± 1.022e−05
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009

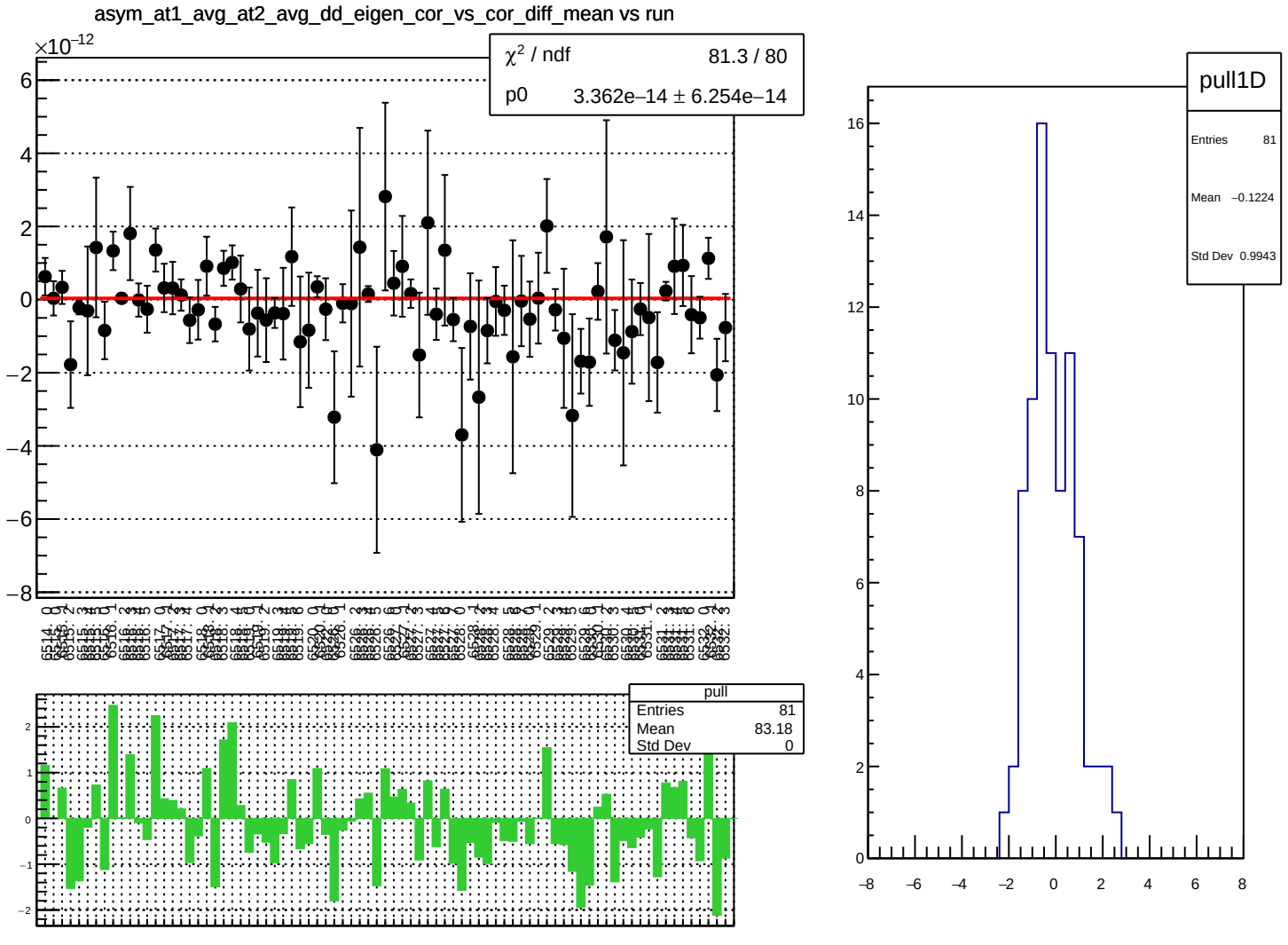

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 105.5 / 80
p0 −0.3583 ± 0.3025
pull
Entries 81
Mean −151.6
Std Dev 0
pull1D
Entries 81
Mean 0.05499
Std Dev 1.14

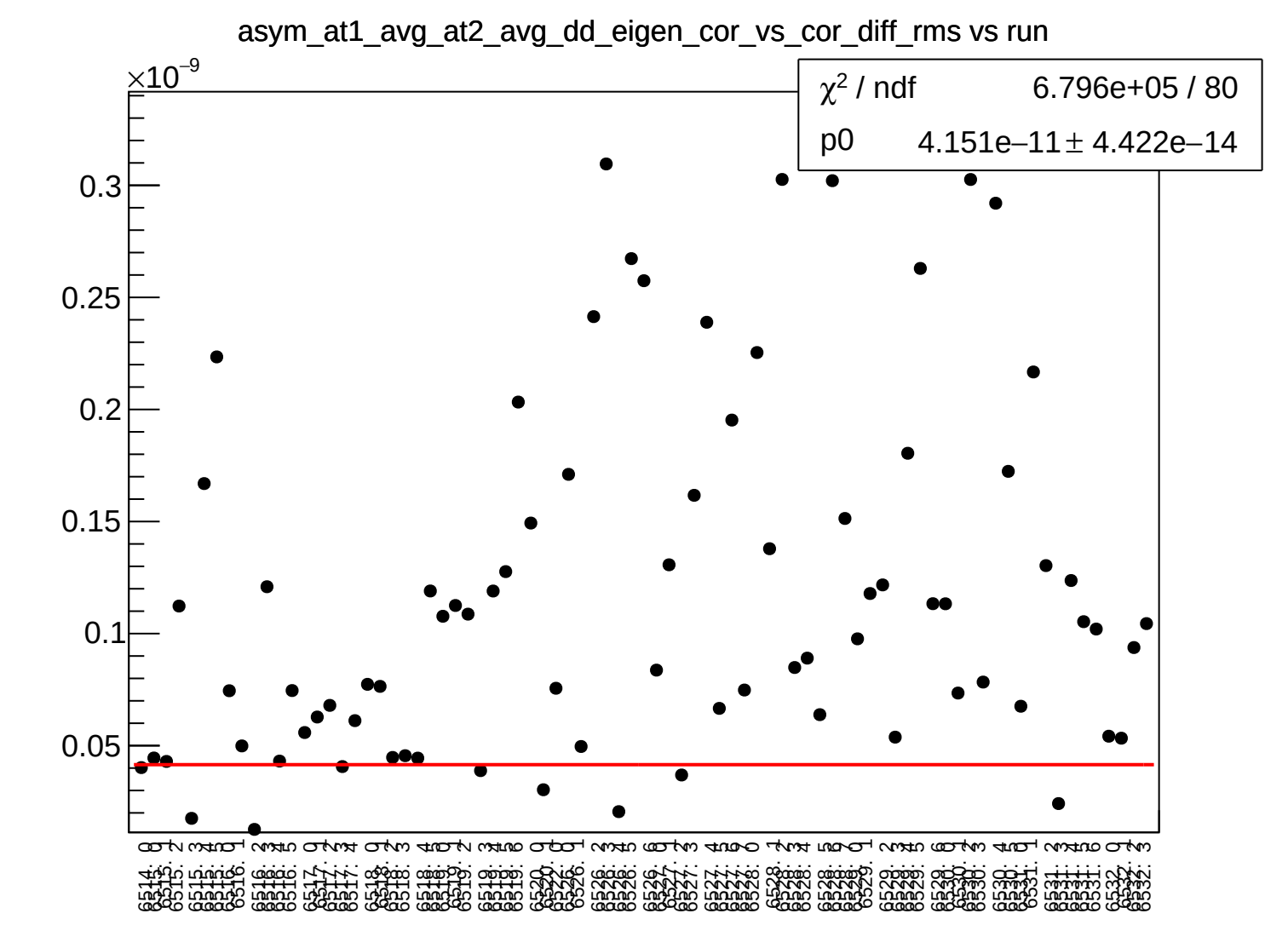

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.816e+04 / 80
p0 260.5 ± 0.2139
500
450
400
350
300
250
200
150

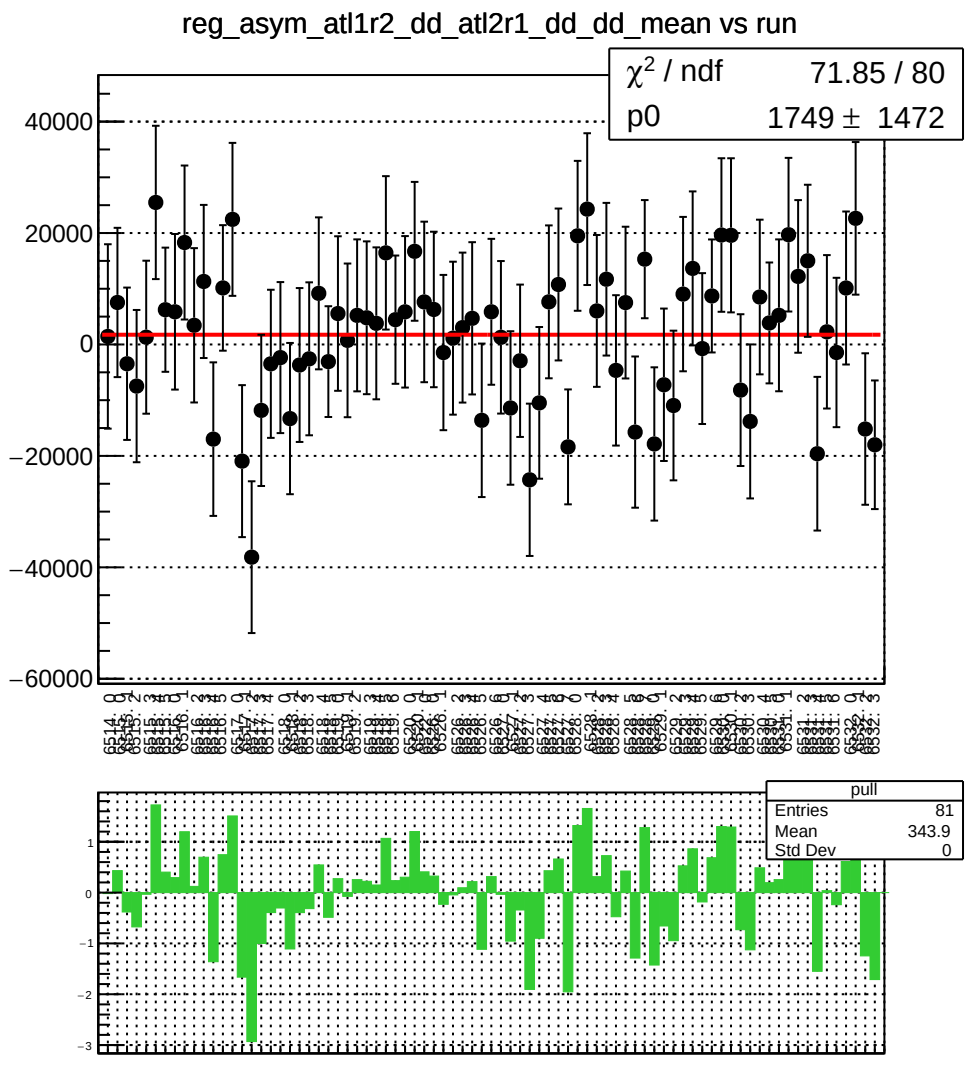

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.5 / 80
p0 −0.3583 ± 0.3025
pull
Entries 81
Mean −151.6
Std Dev 0

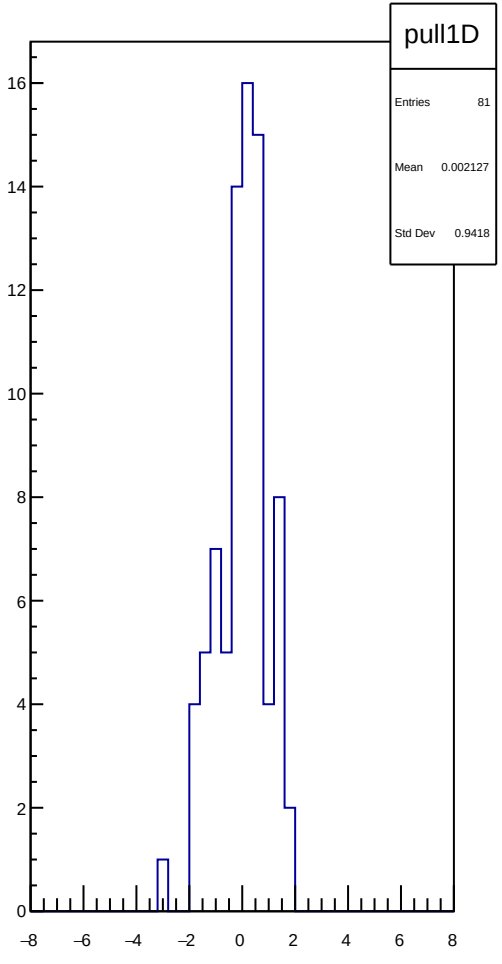

pull1D
Entries 81
Mean 0.05499
Std Dev 1.14

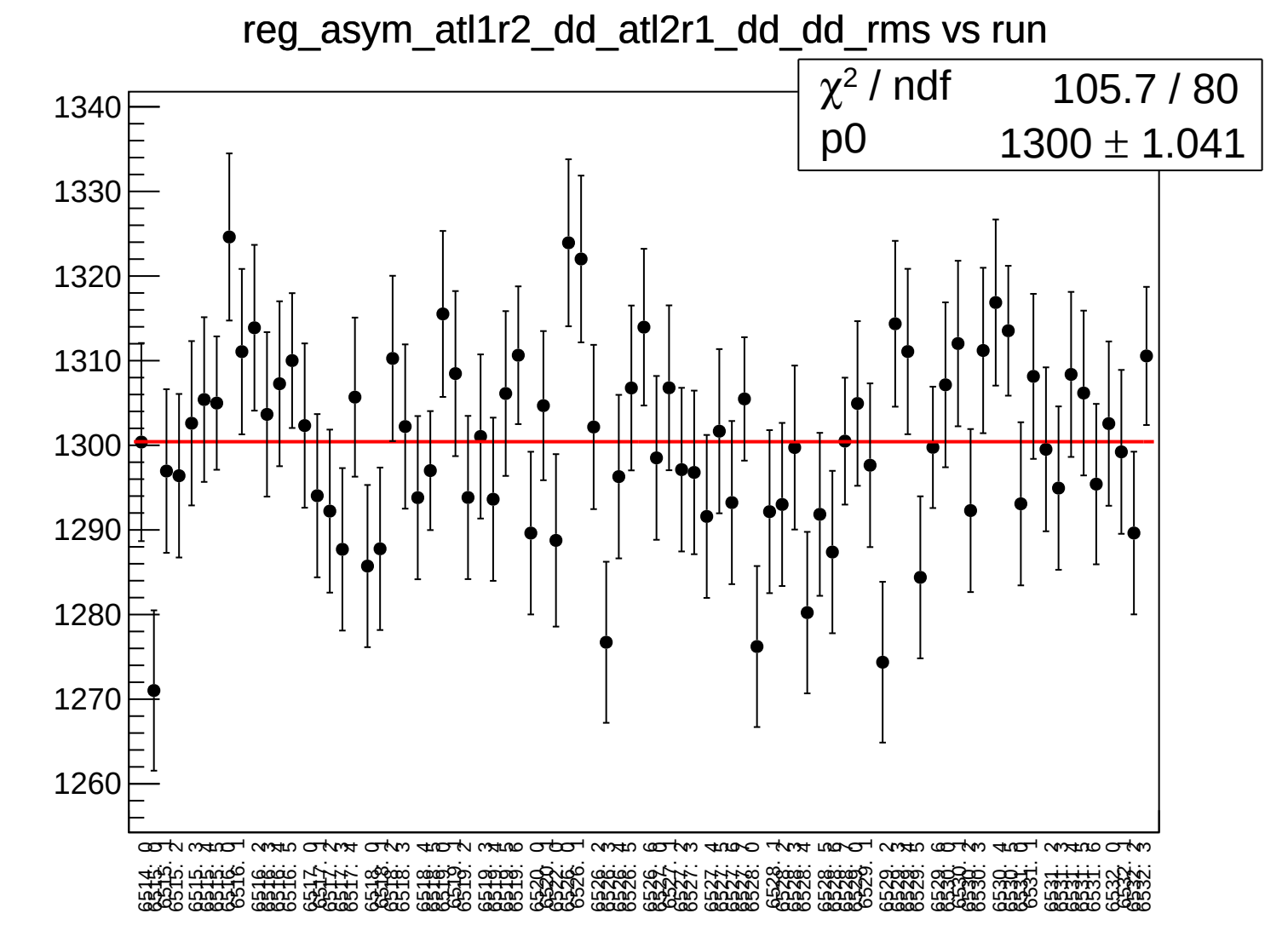

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.816e+04 / 80
p0 260.5 ± 0.2139
500
450
400
350
300
250
200
150

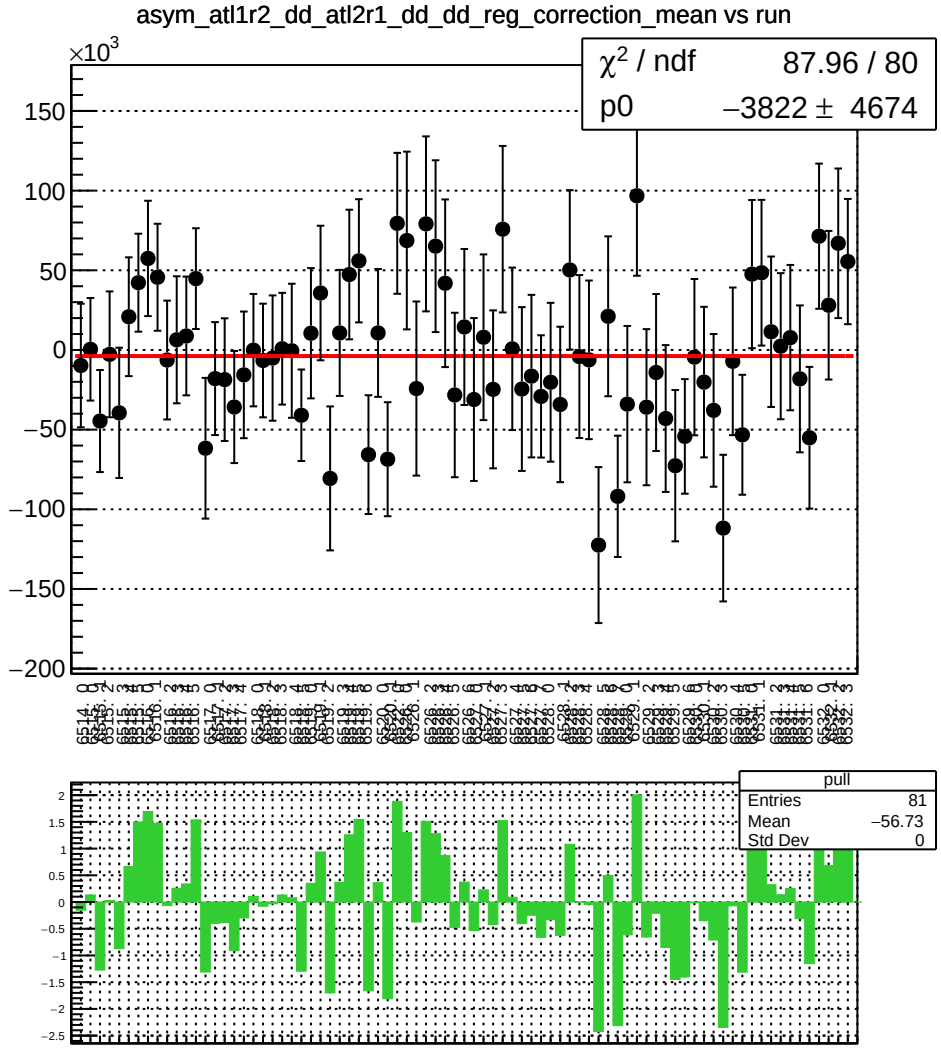

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.3 / 80
p0 3.362e−14 ± 6.254e−14
pull
Entries 81
Mean 83.18
Std Dev 0
pull1D
Entries 81
Mean −0.1224
Std Dev 0.9943

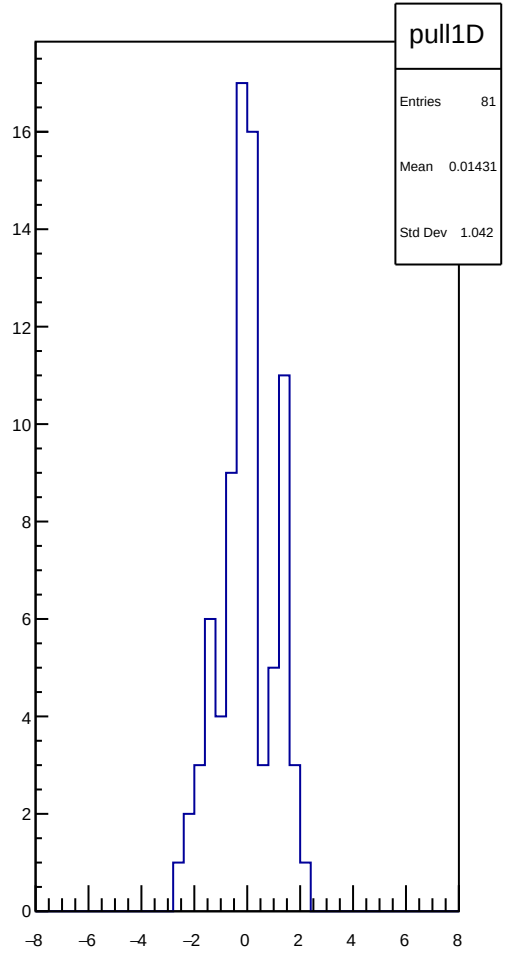

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.796e+05 / 80
p0 4.151e−11 ± 4.422e−14
0.3
0.25
0.2
0.15
0.1
0.05

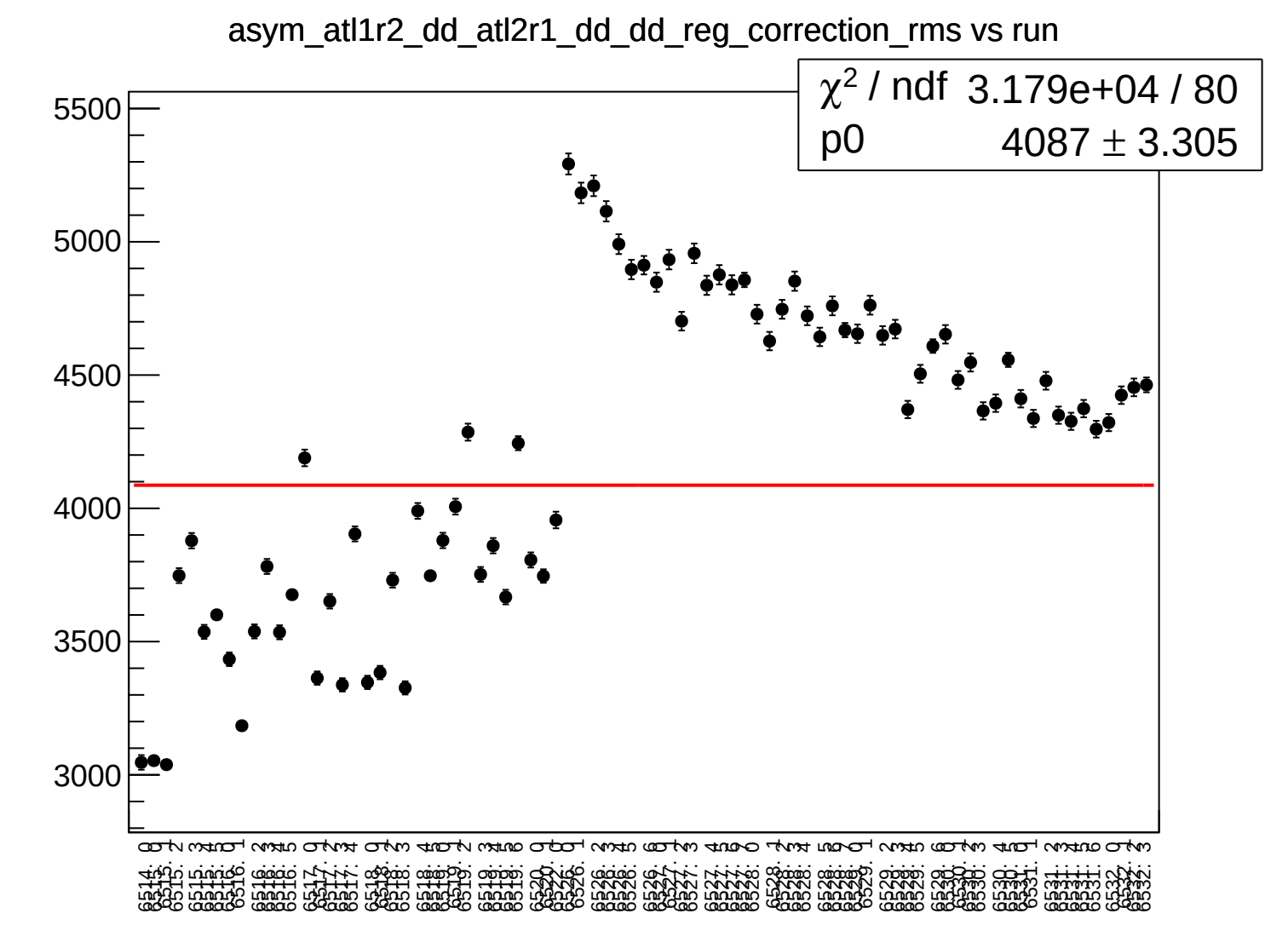

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 71.85 / 80
p0 1749 ± 1472
pull
Entries 81
Mean 343.9
Std Dev 0

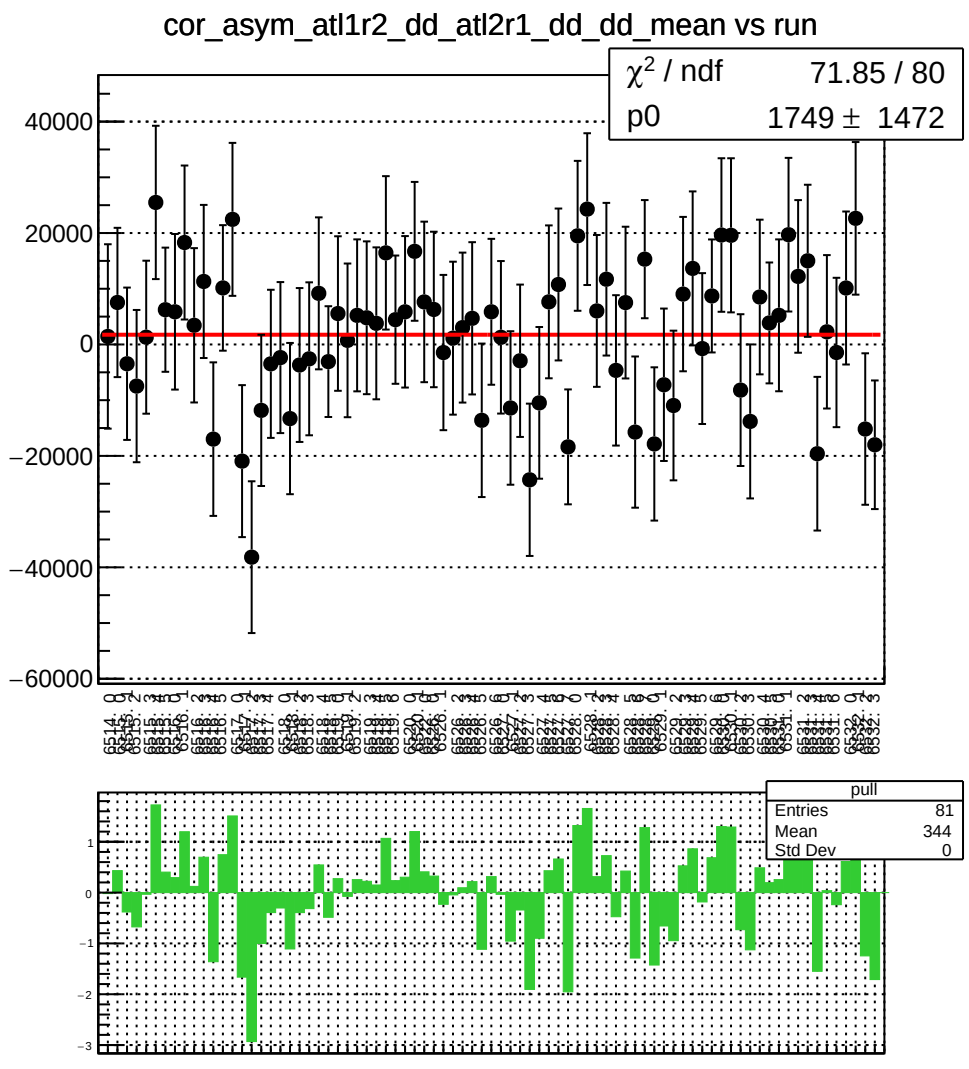

pull1D
Entries 81
Mean 0.002127
Std Dev 0.9418

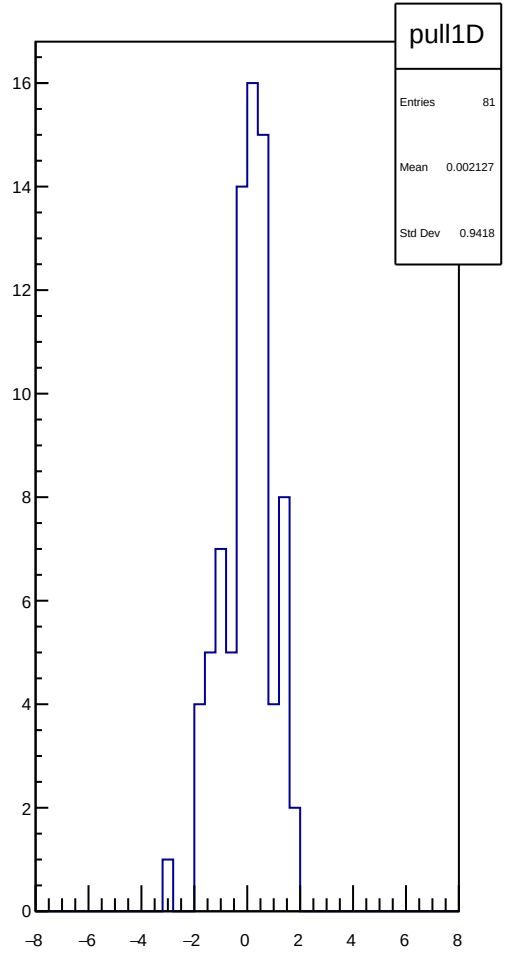

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 105.7 / 80
p0 1300 ± 1.041
1340
1330
1320
1310
1300
1290
1280
1270
1260

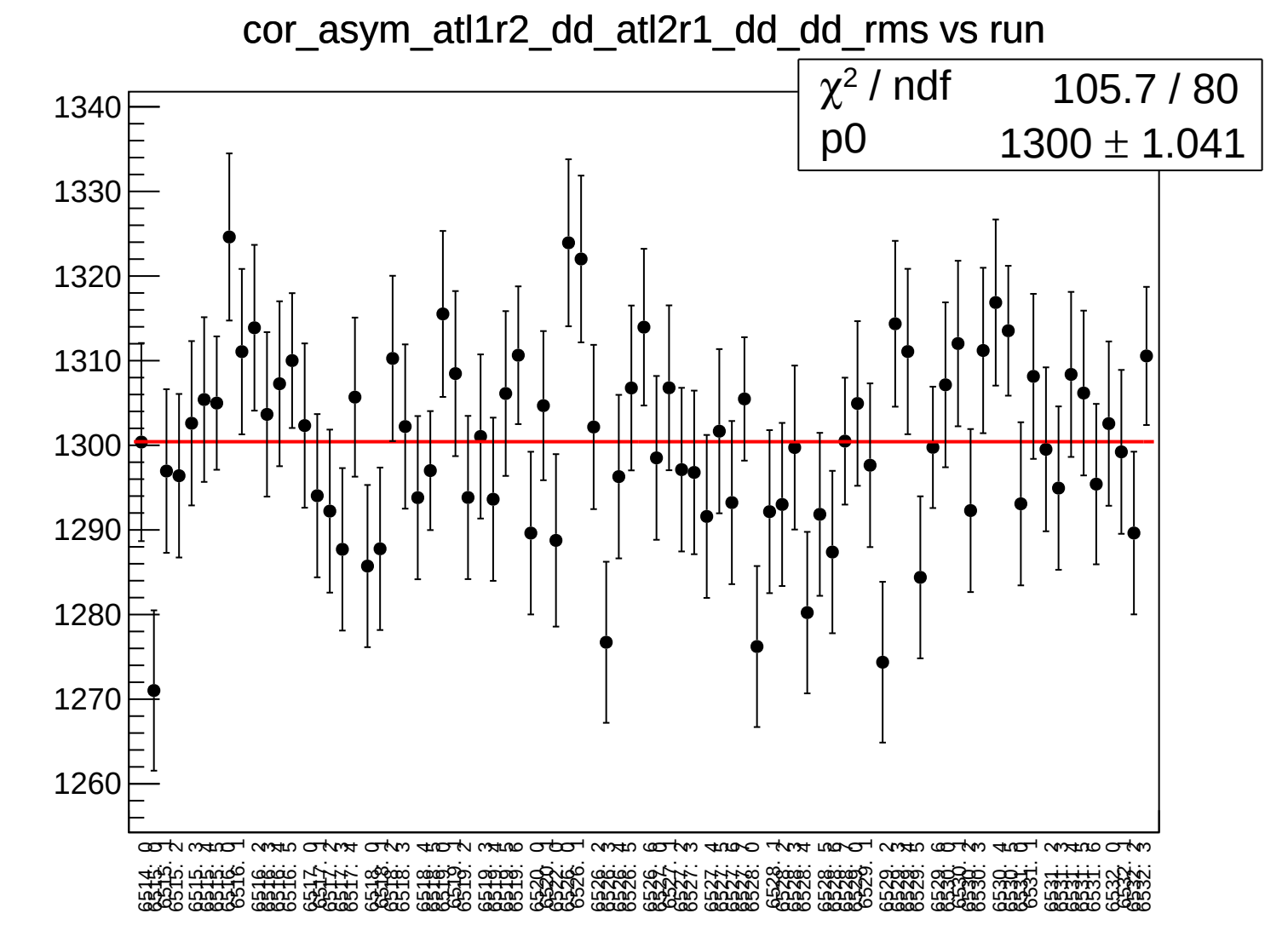

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 87.96 / 80
p0 −3822 ± 4674
150
100
50
0
−50
−100
−150
−200
pull
Entries 81
Mean −56.73
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

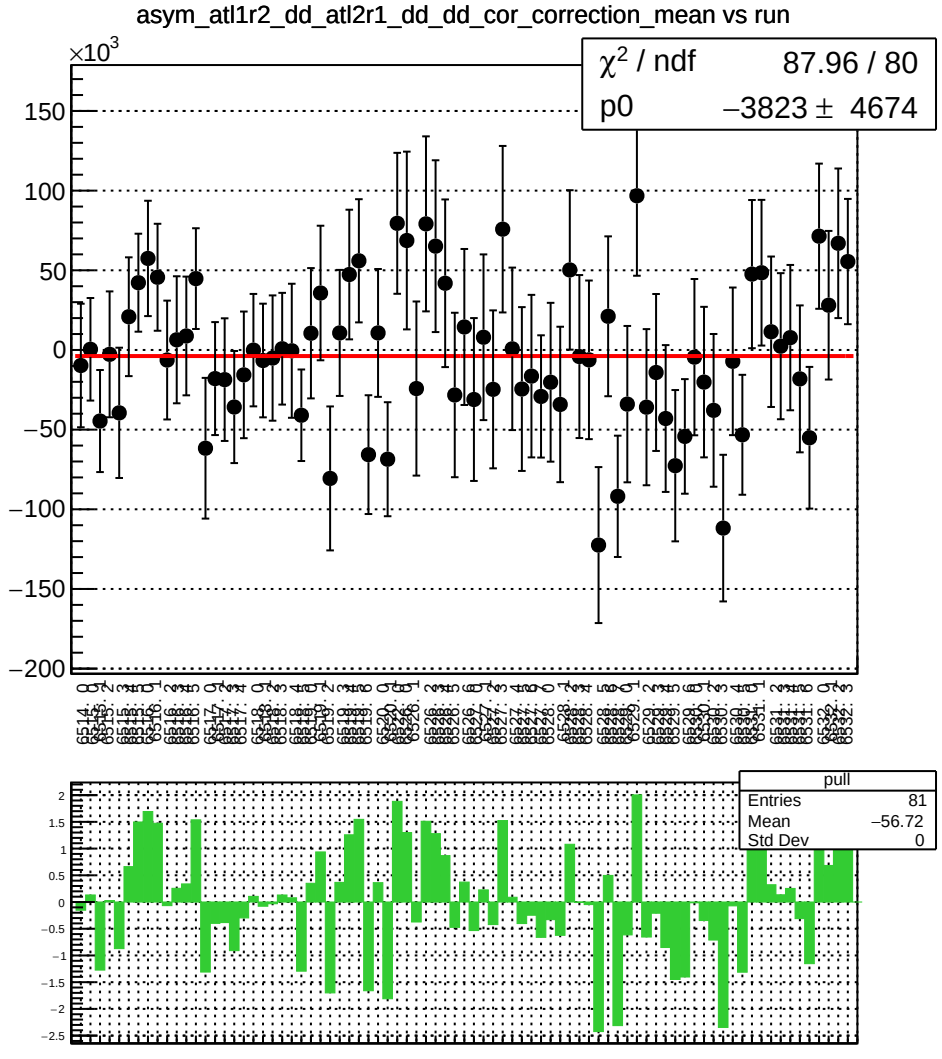

pull1D
Entries 81
Mean 0.01431
Std Dev 1.042
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

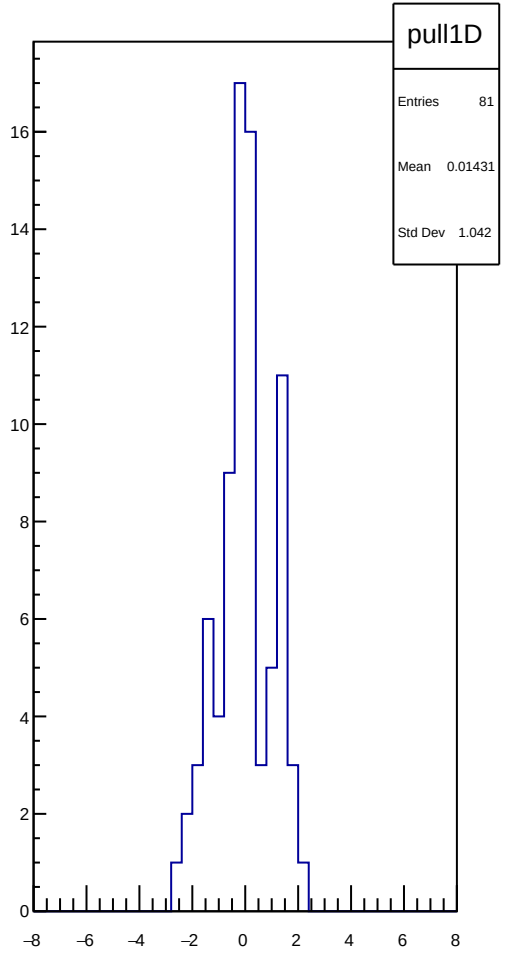

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 3.179e+04 / 80
p0 4087 ± 3.305
5500
5000
4500
4000
3500
3000

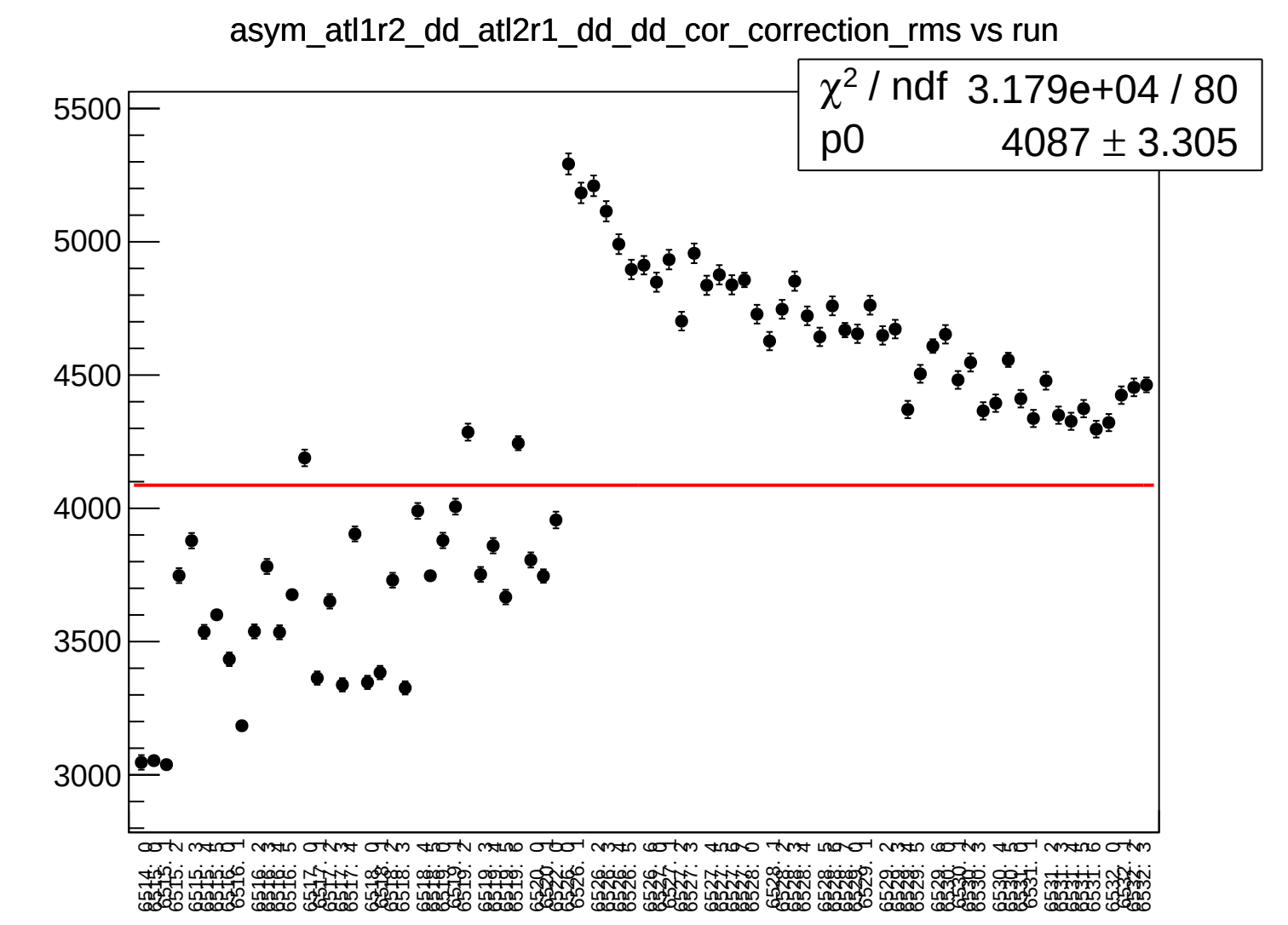

cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 71.85 / 80
p0 1749 ± 1472
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean 344
Std Dev 0
1
0
−1
−2
−3

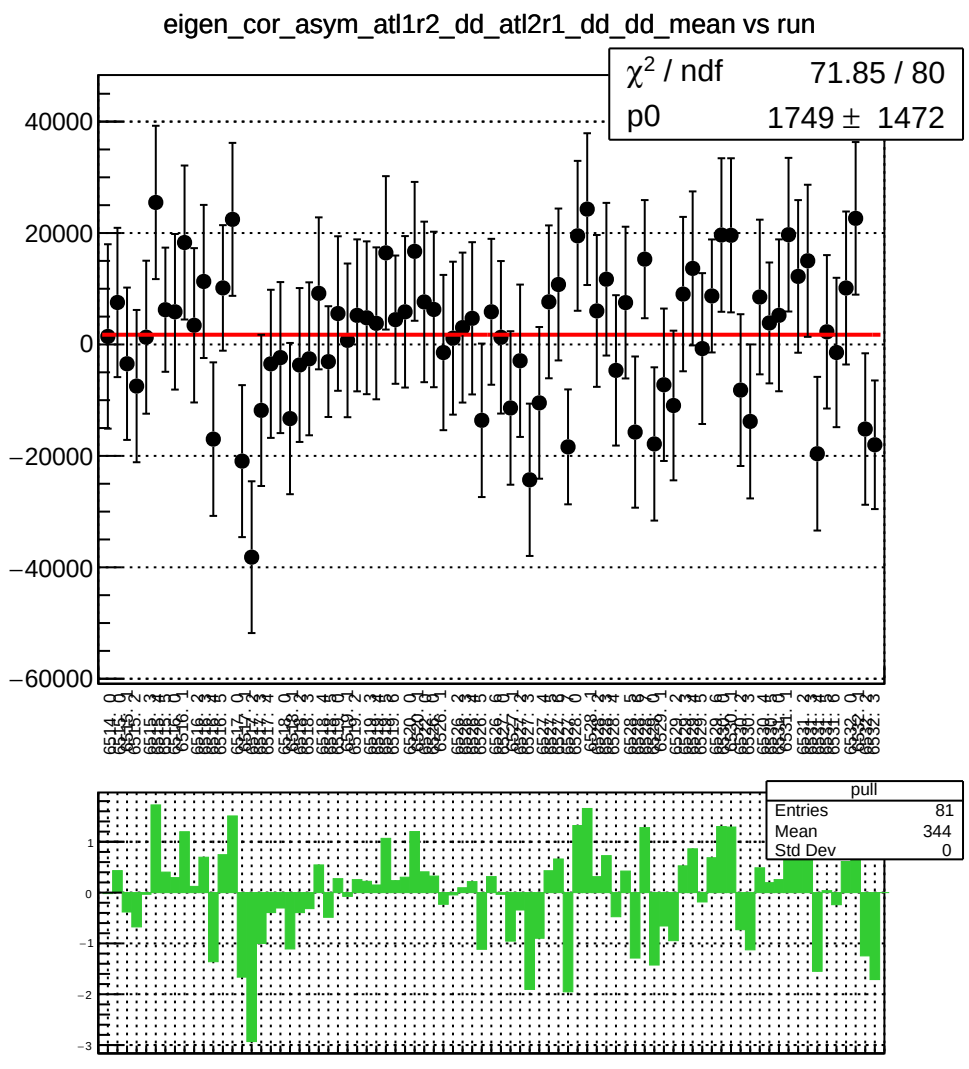

pull1D
Entries 81
Mean 0.002127
Std Dev 0.9418
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

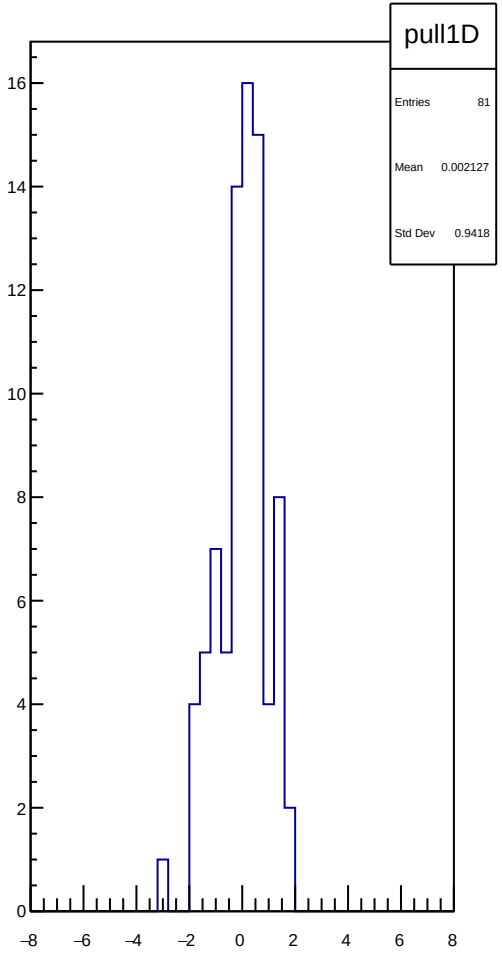

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 105.7 / 80
p0 1300 ± 1.041
1340
1330
1320
1310
1300
1290
1280
1270
1260

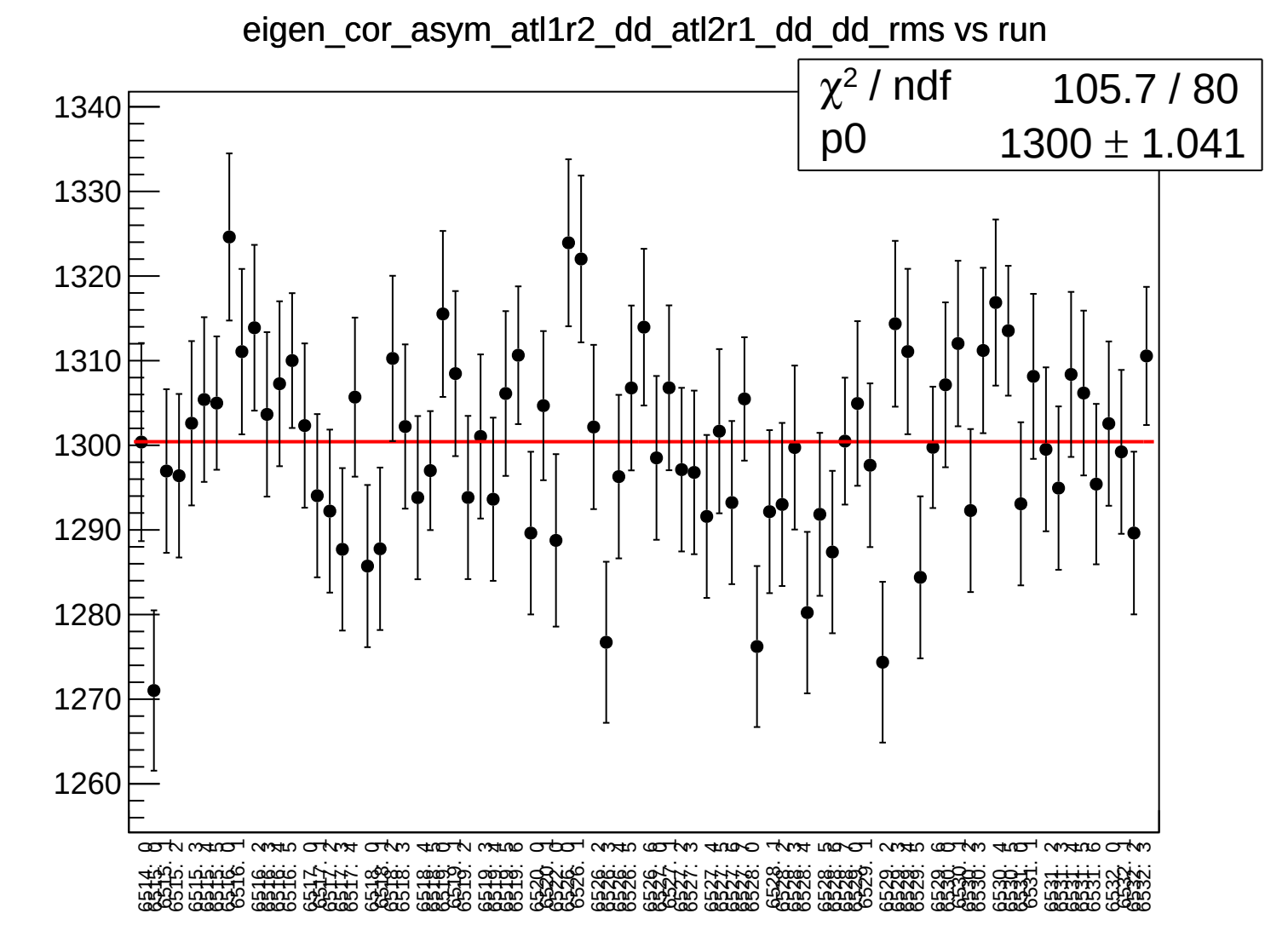

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
×10^3
χ² / ndf 87.96 / 80
p0 −3823 ± 4674
150
100
50
0
−50
−100
−150
−200
pull
Entries 81
Mean −56.72
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

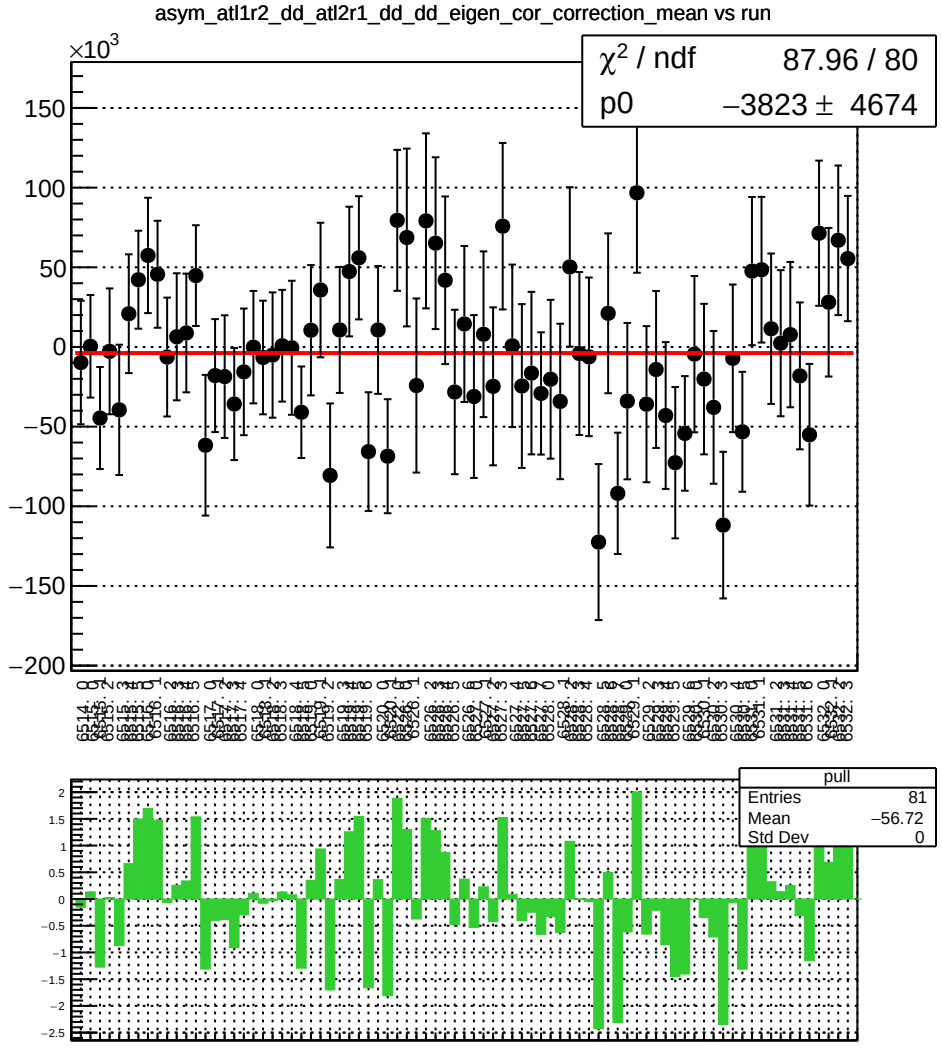

pull1D
Entries 81
Mean 0.01431
Std Dev 1.042
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

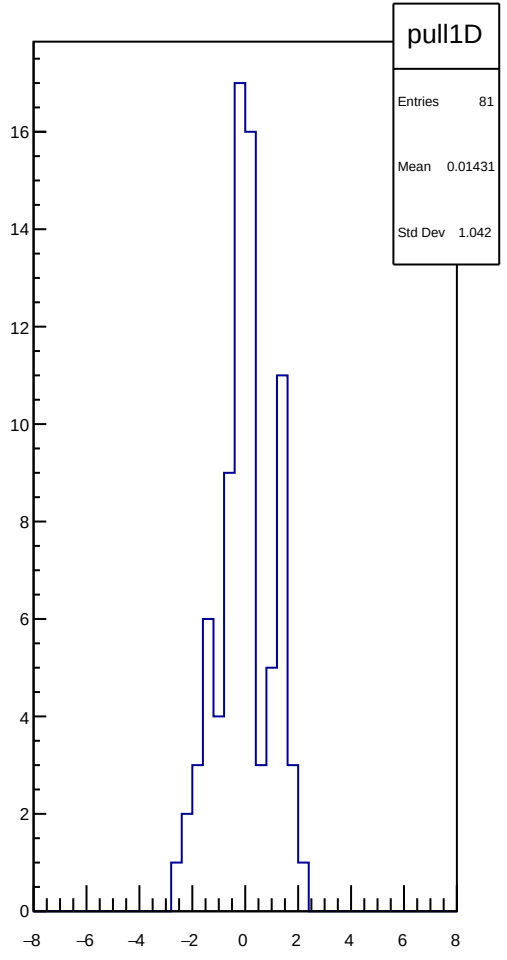

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 3.179e+04 / 80
p0 4087 ± 3.305
5500
5000
4500
4000
3500
3000

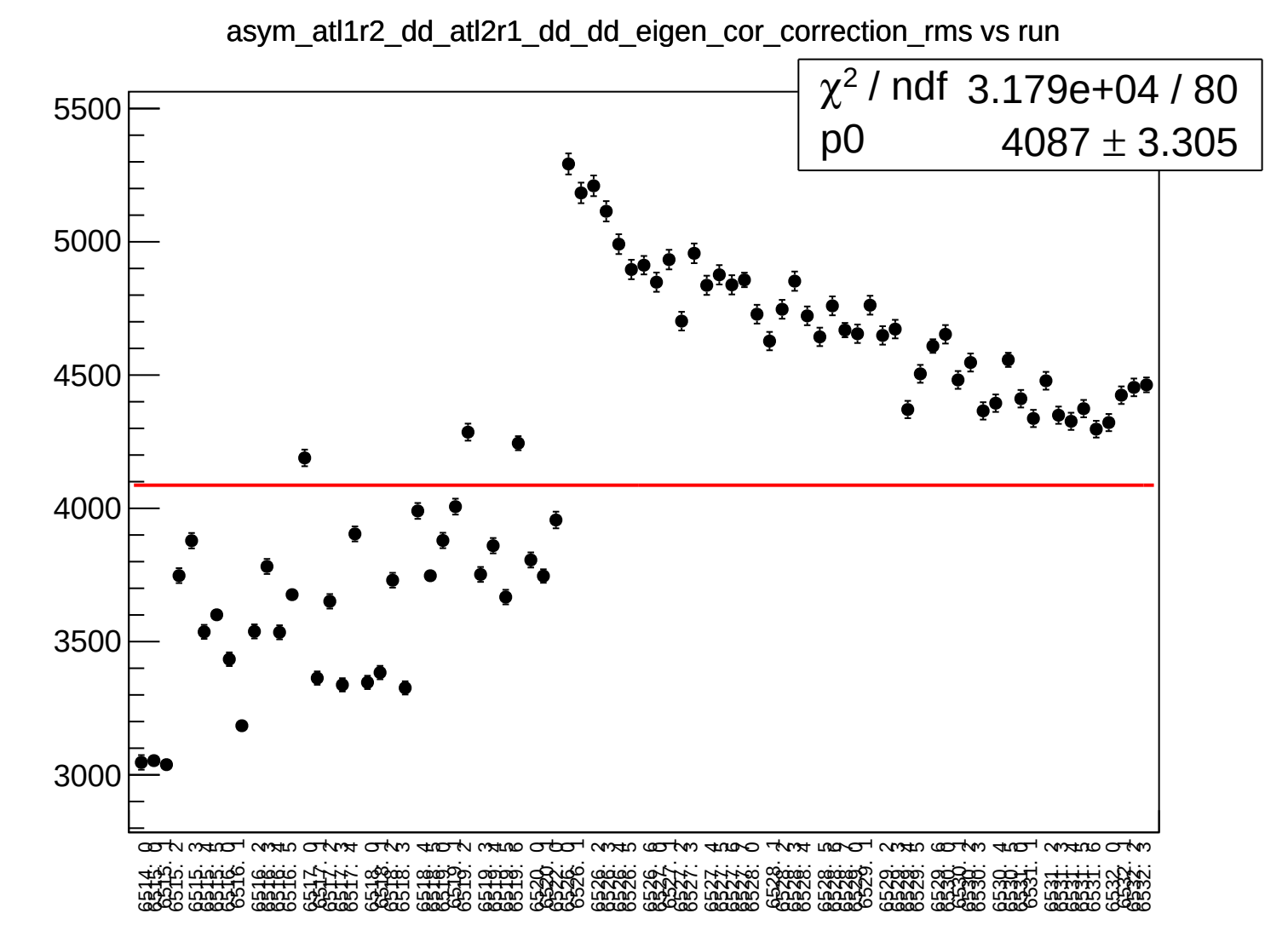

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 71.85 / 80
p0 1749 ± 1472
pull
Entries 81
Mean 344
Std Dev 0

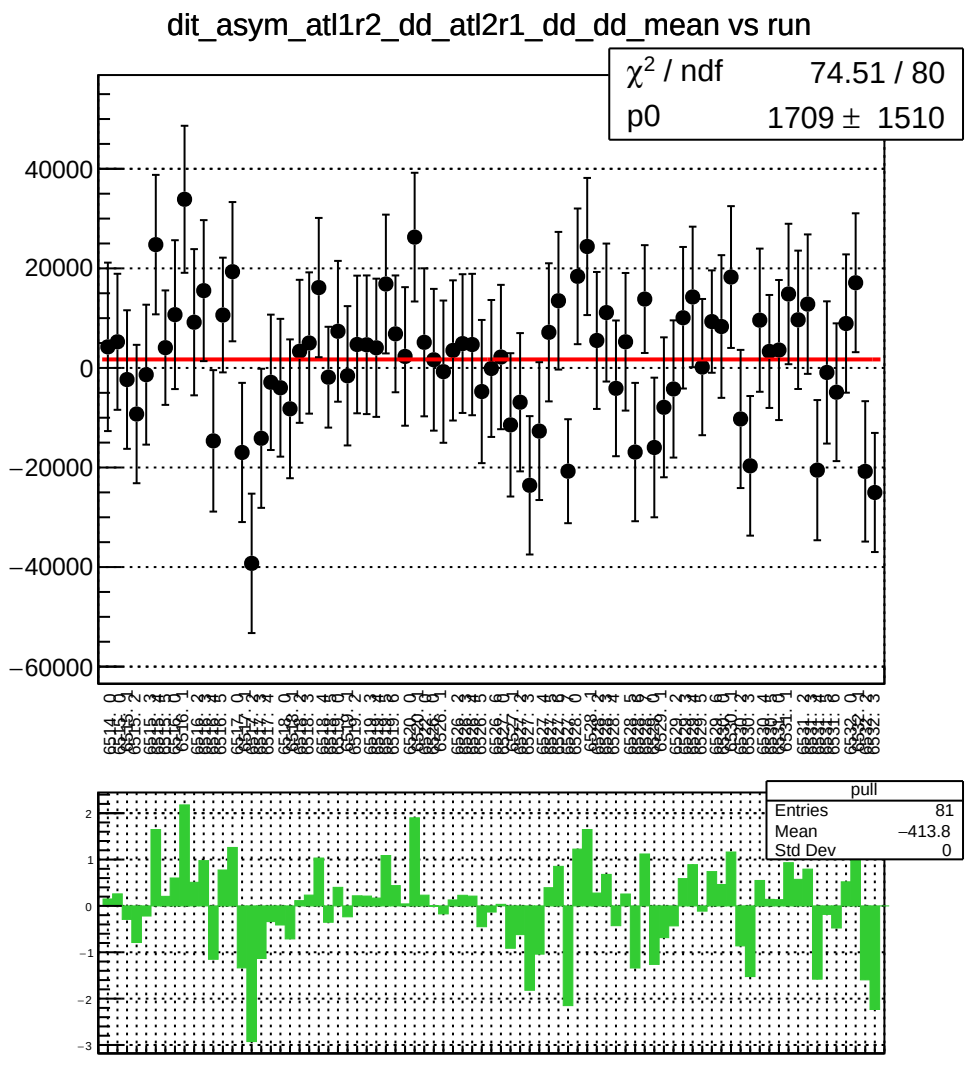

pull1D
Entries 81
Mean 0.002127
Std Dev 0.9418

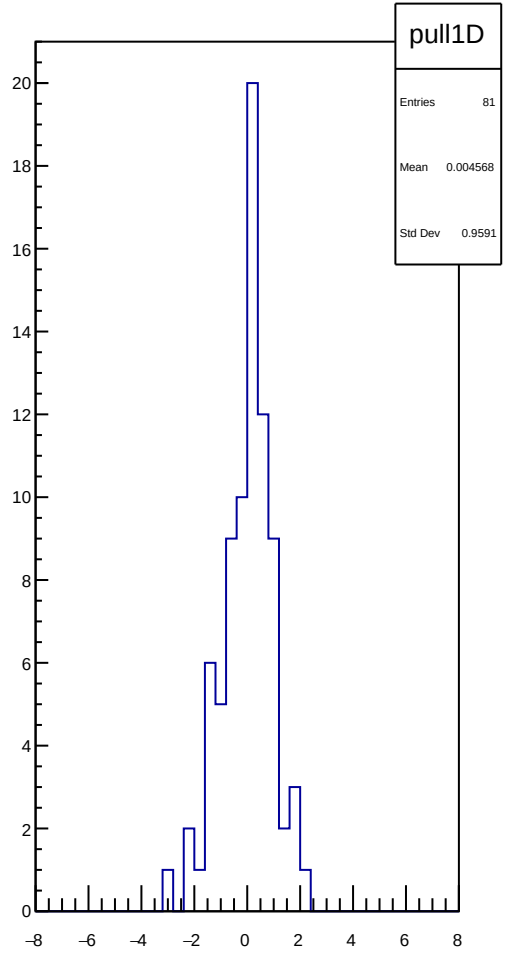

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 105.7 / 80
p0 1300 ± 1.041
1340
1330
1320
1310
1300
1290
1280
1270
1260

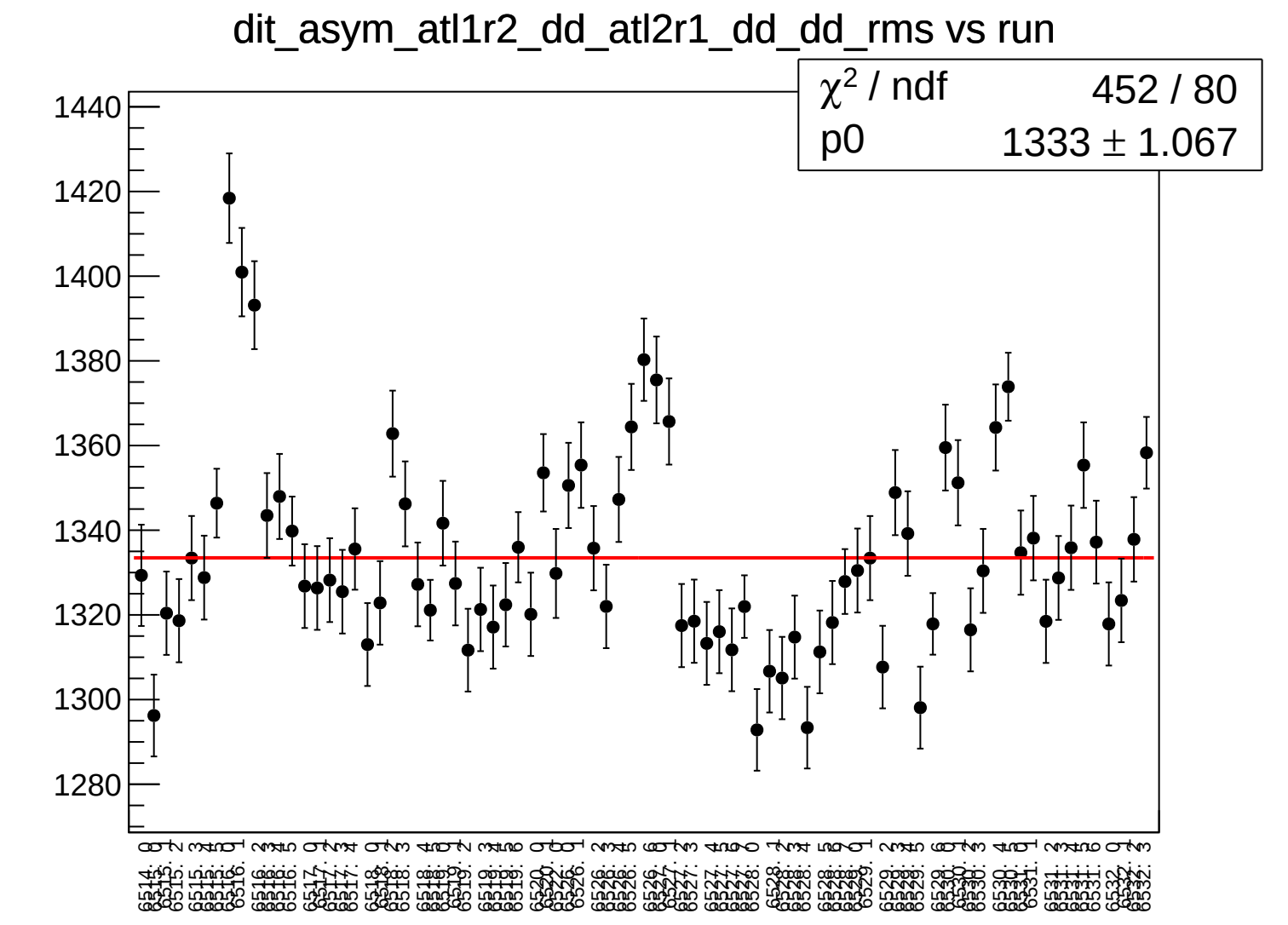

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 87.96 / 80
p0 −3823 ± 4674
150
100
50
0
−50
−100
−150
−200
pull
Entries 81
Mean −56.72
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

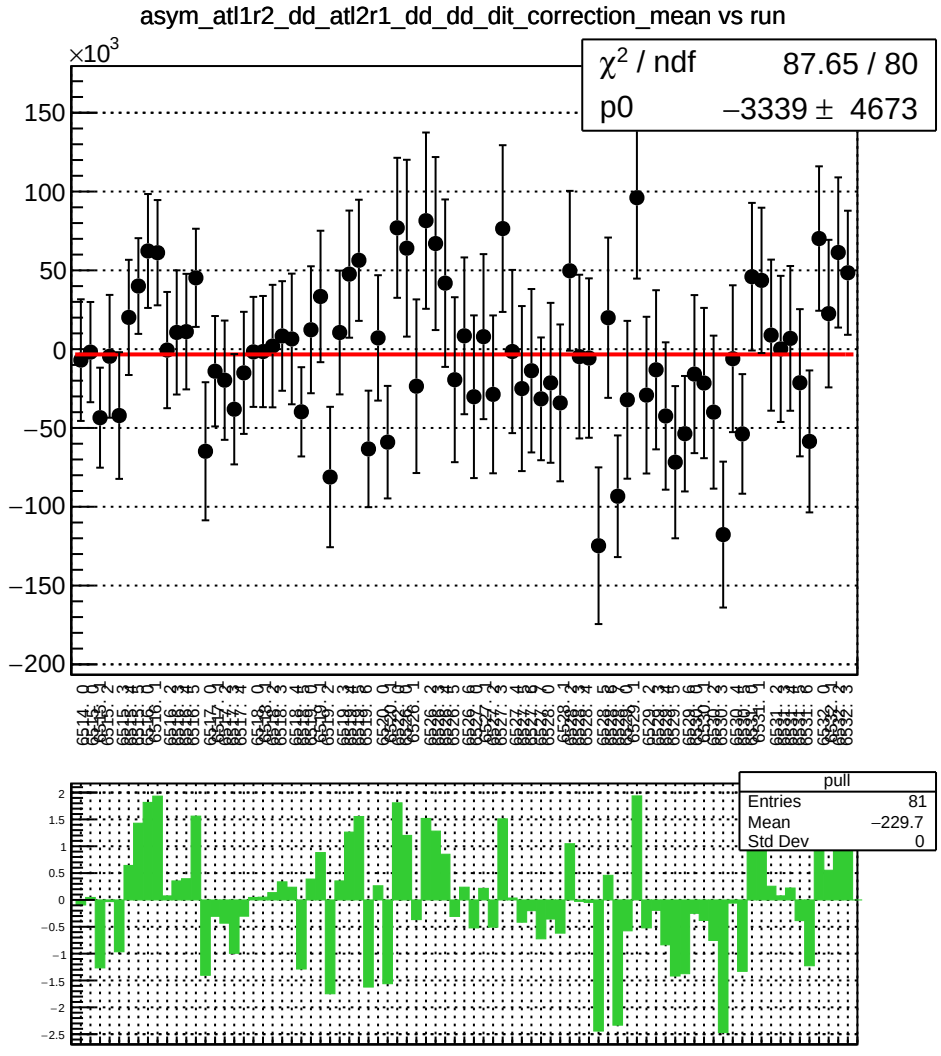

pull1D
Entries 81
Mean 0.01431
Std Dev 1.042
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

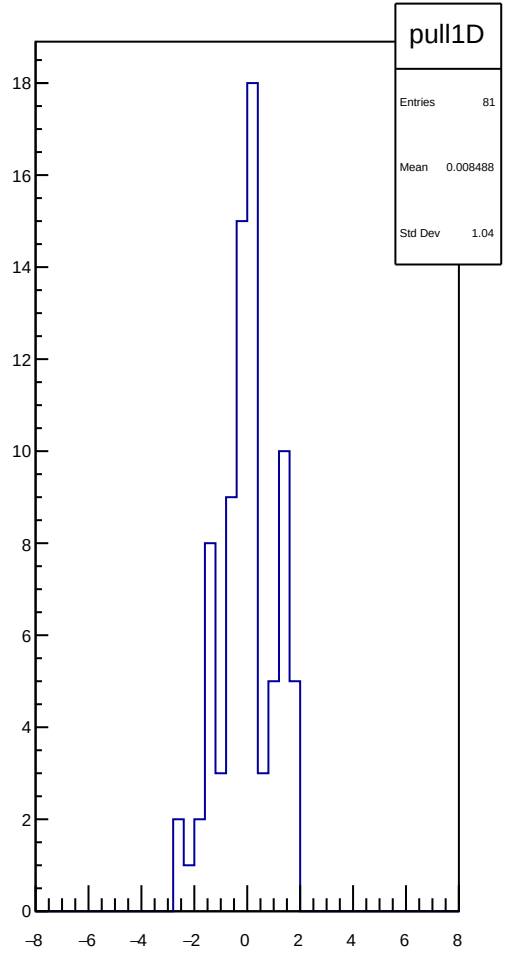

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.179e+04 / 80
p0 4087 ± 3.305
5500
5000
4500
4000
3500
3000

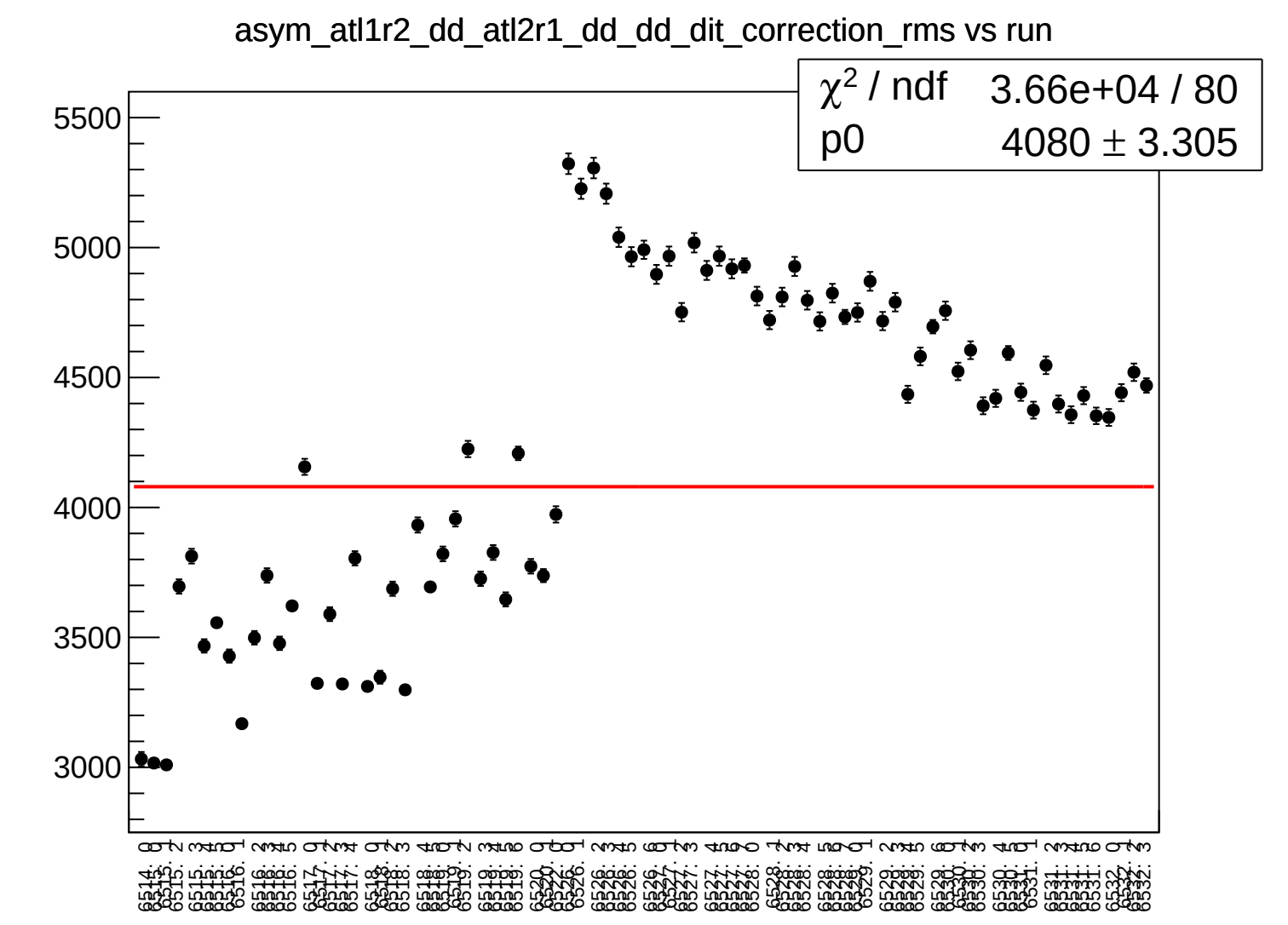

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 74.51 / 80
p0 1709 ± 1510
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −413.8
Std Dev 0
2
1
0
−1
−2
−3

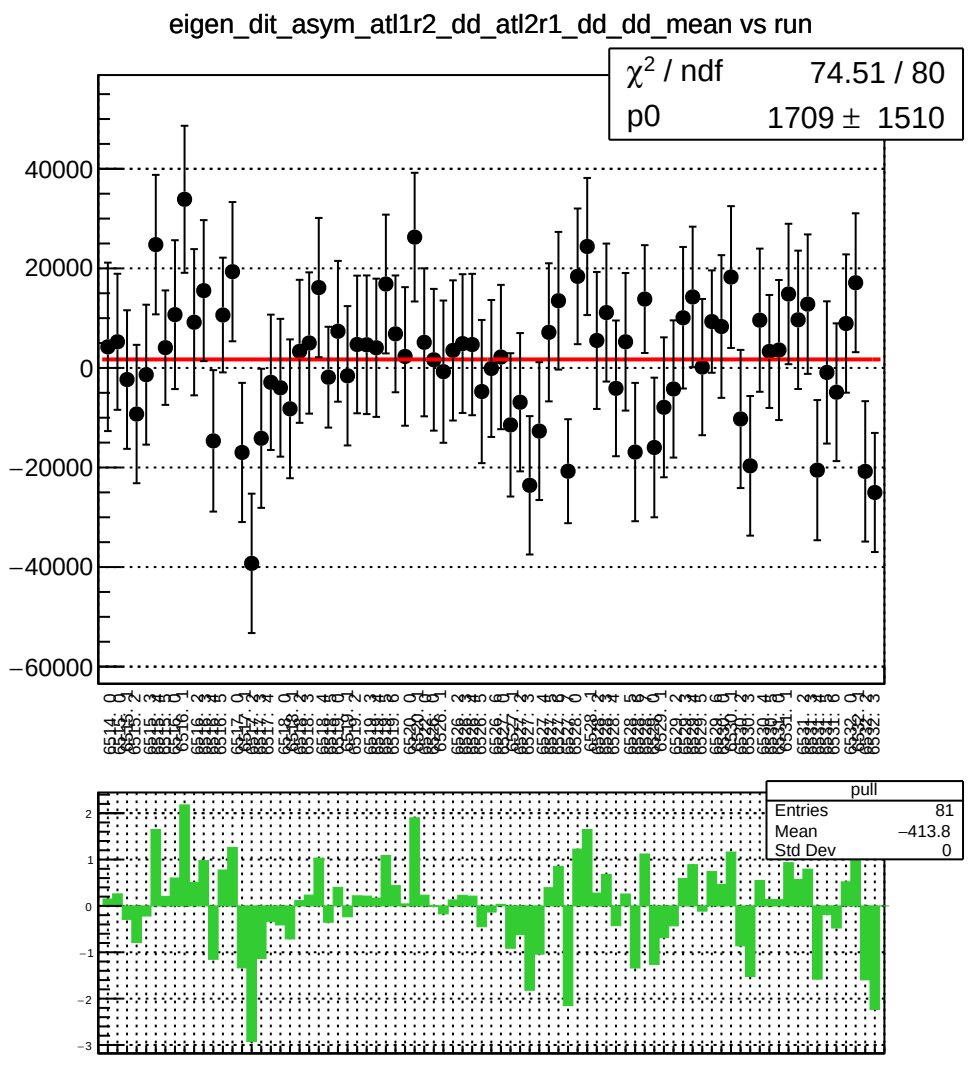

pull1D
Entries 81
Mean 0.004568
Std Dev 0.9591
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

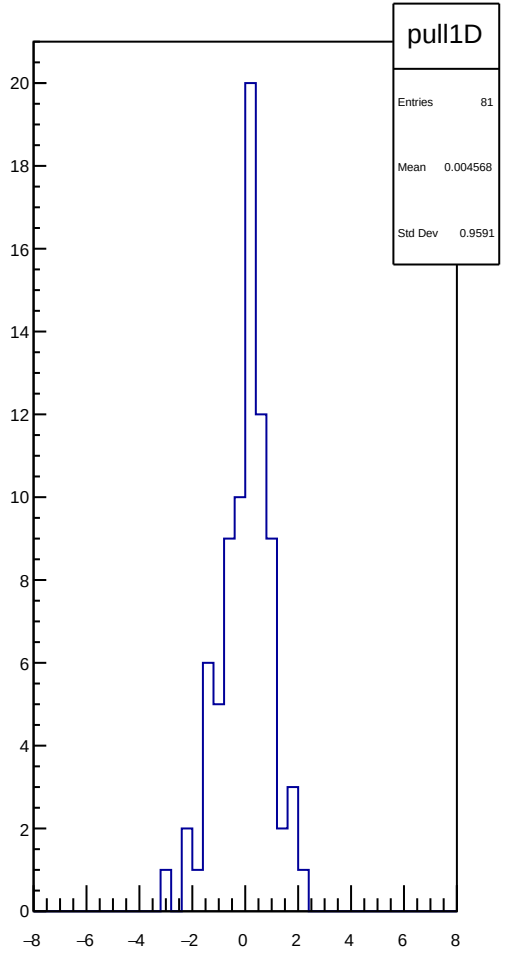

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 452 / 80
p0 1333 ± 1.067
1440
1420
1400
1380
1360
1340
1320
1300
1280

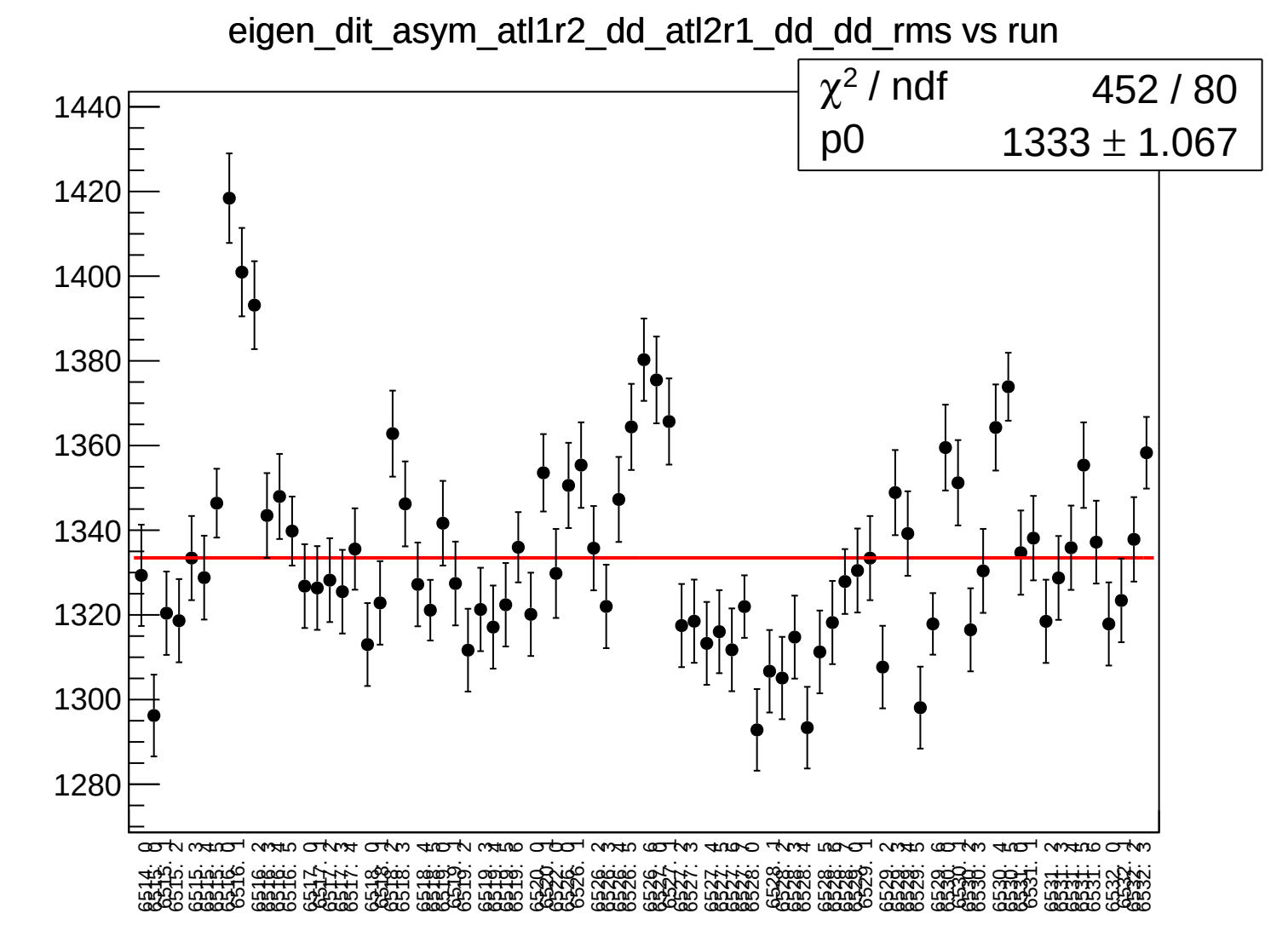

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 87.65 / 80
p0 −3339 ± 4673
150
100
50
0
−50
−100
−150
−200
pull
Entries 81
Mean −229.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

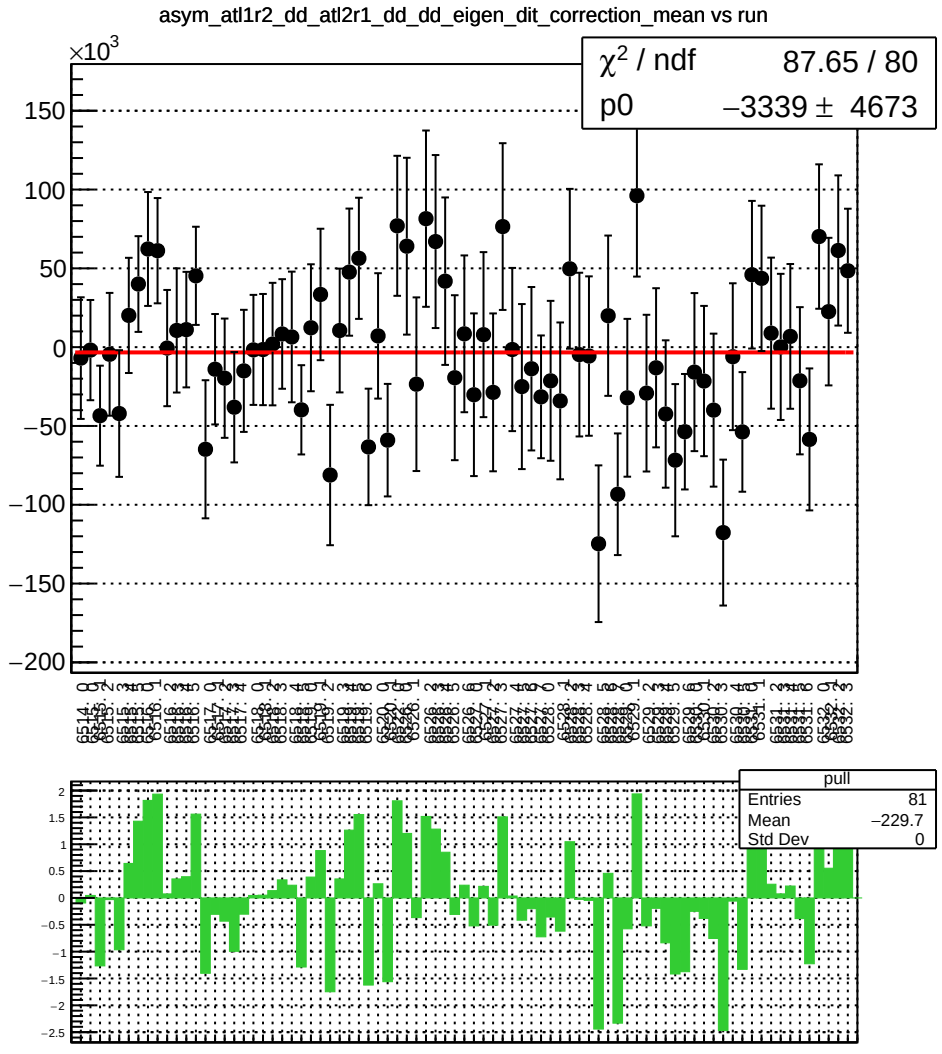

pull1D
Entries 81
Mean 0.008488
Std Dev 1.04
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

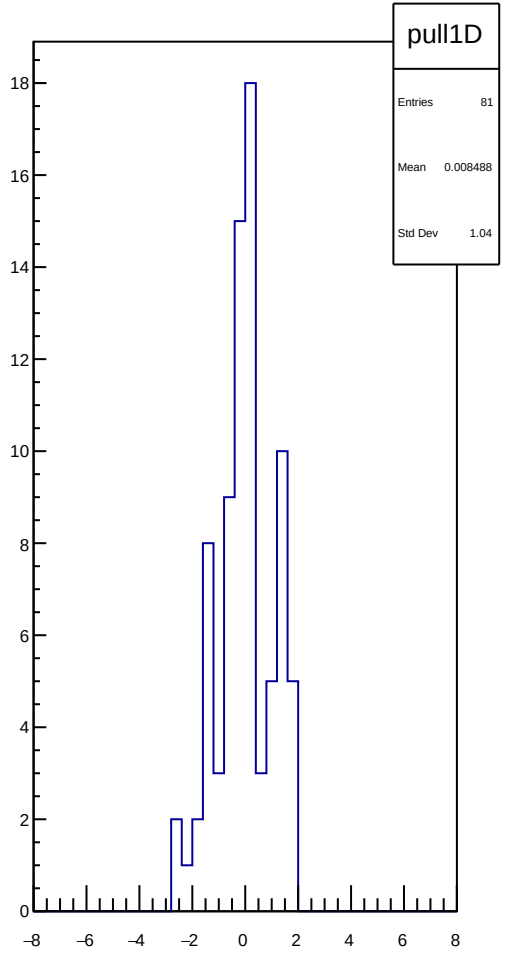

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 3.66e+04 / 80
p0 4080 ± 3.305
5500
5000
4500
4000
3500
3000

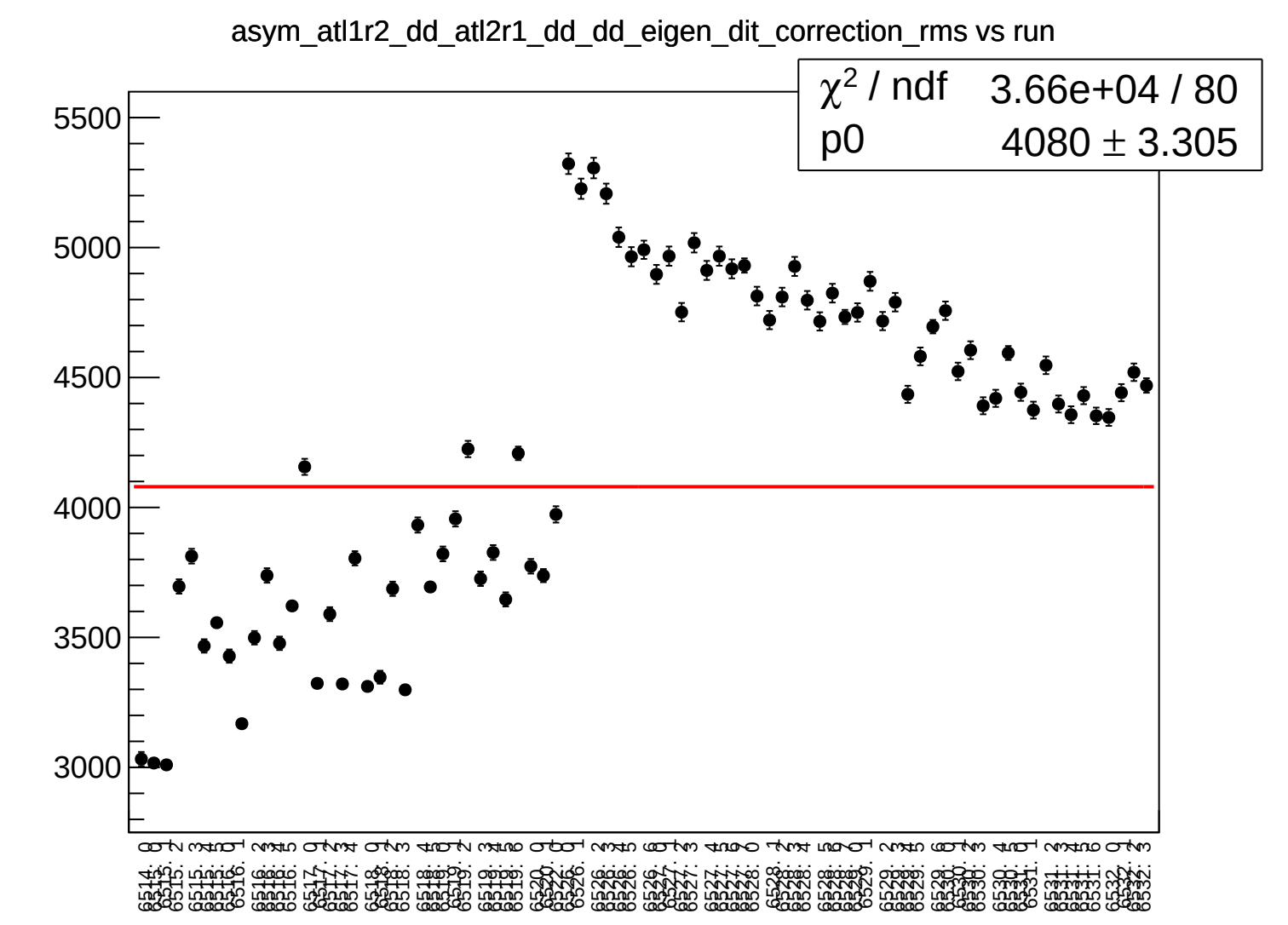

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 74.51 / 80
p0 1709 ± 1510
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −413.8
Std Dev 0
2
1
0
−1
−2
−3

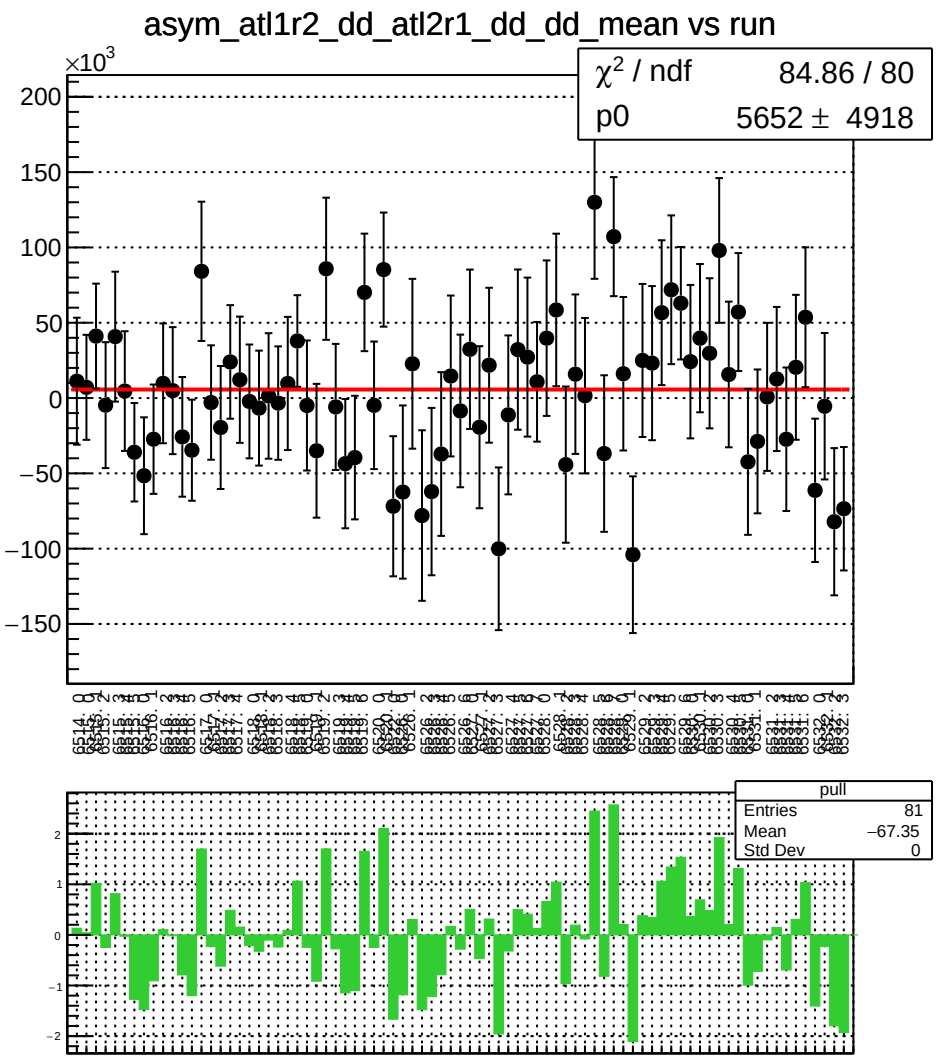

pull1D
Entries 81
Mean 0.004568
Std Dev 0.9591
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

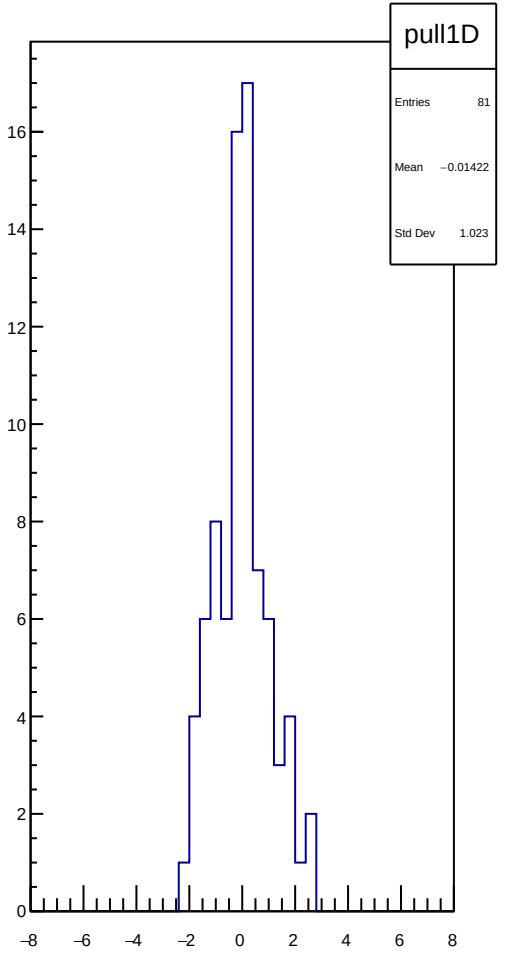

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 452 / 80
p0 1333 ± 1.067
1440
1420
1400
1380
1360
1340
1320
1300
1280

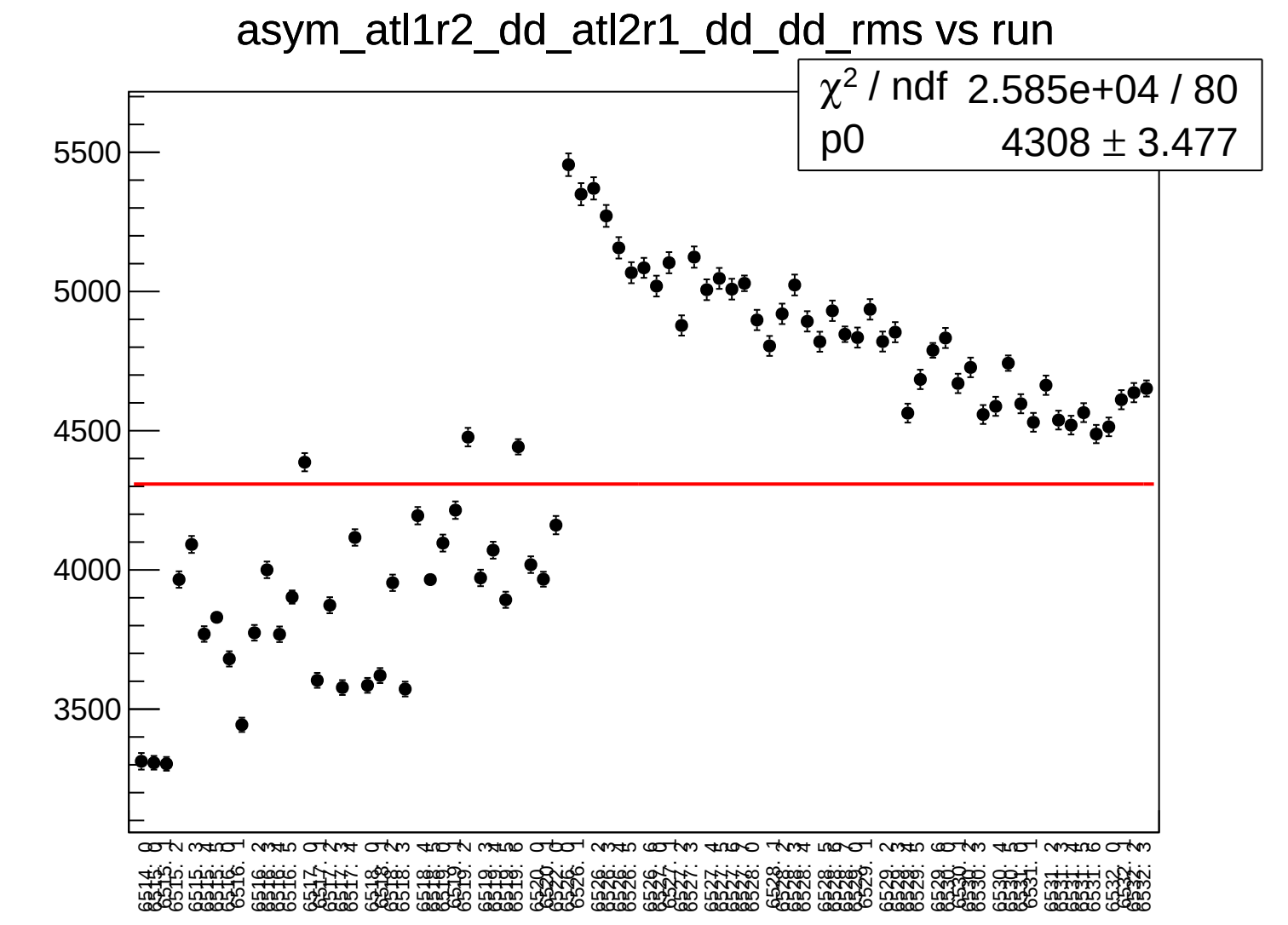

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 87.65 / 80
p0 −3339 ± 4673
150
100
50
0
−50
−100
−150
−200
pull
Entries 81
Mean −229.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

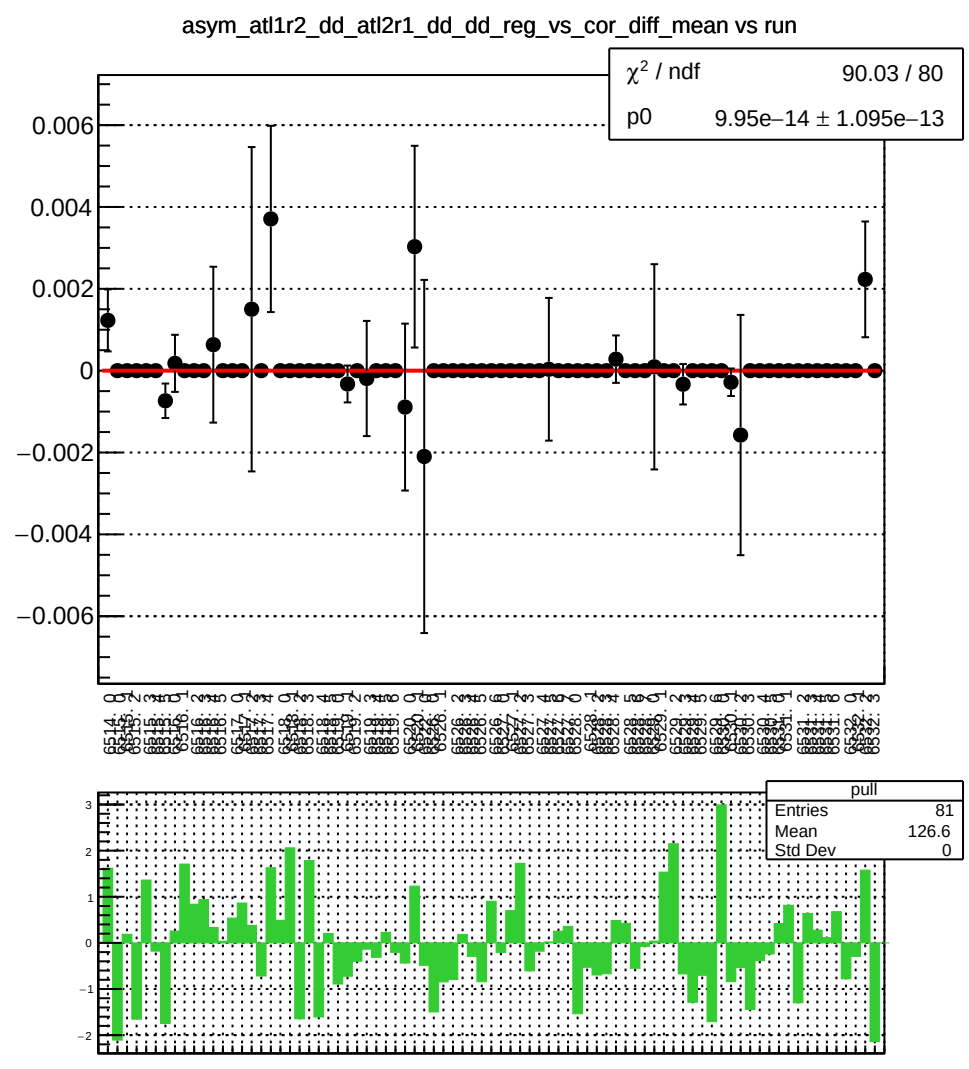

pull1D
Entries 81
Mean 0.008488
Std Dev 1.04
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

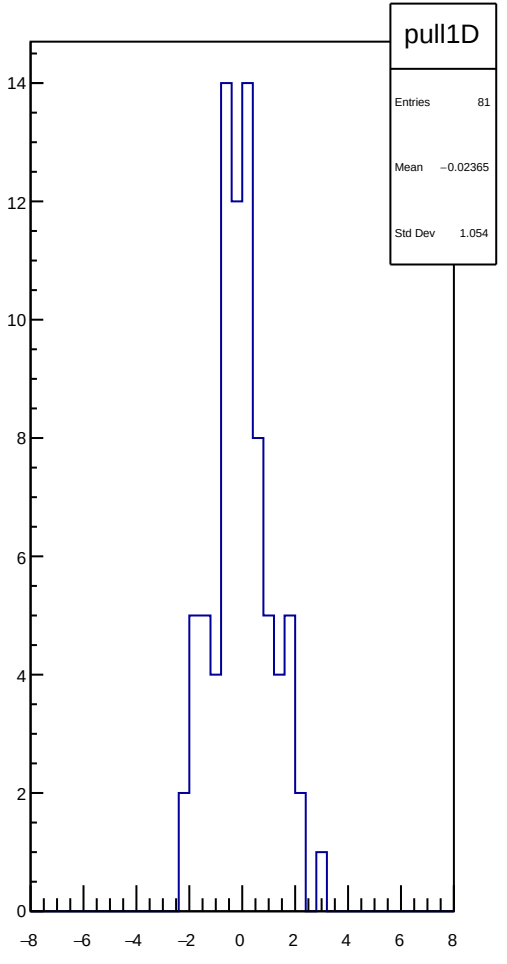

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.66e+04 / 80
p0 4080 ± 3.305
5500
5000
4500
4000
3500
3000

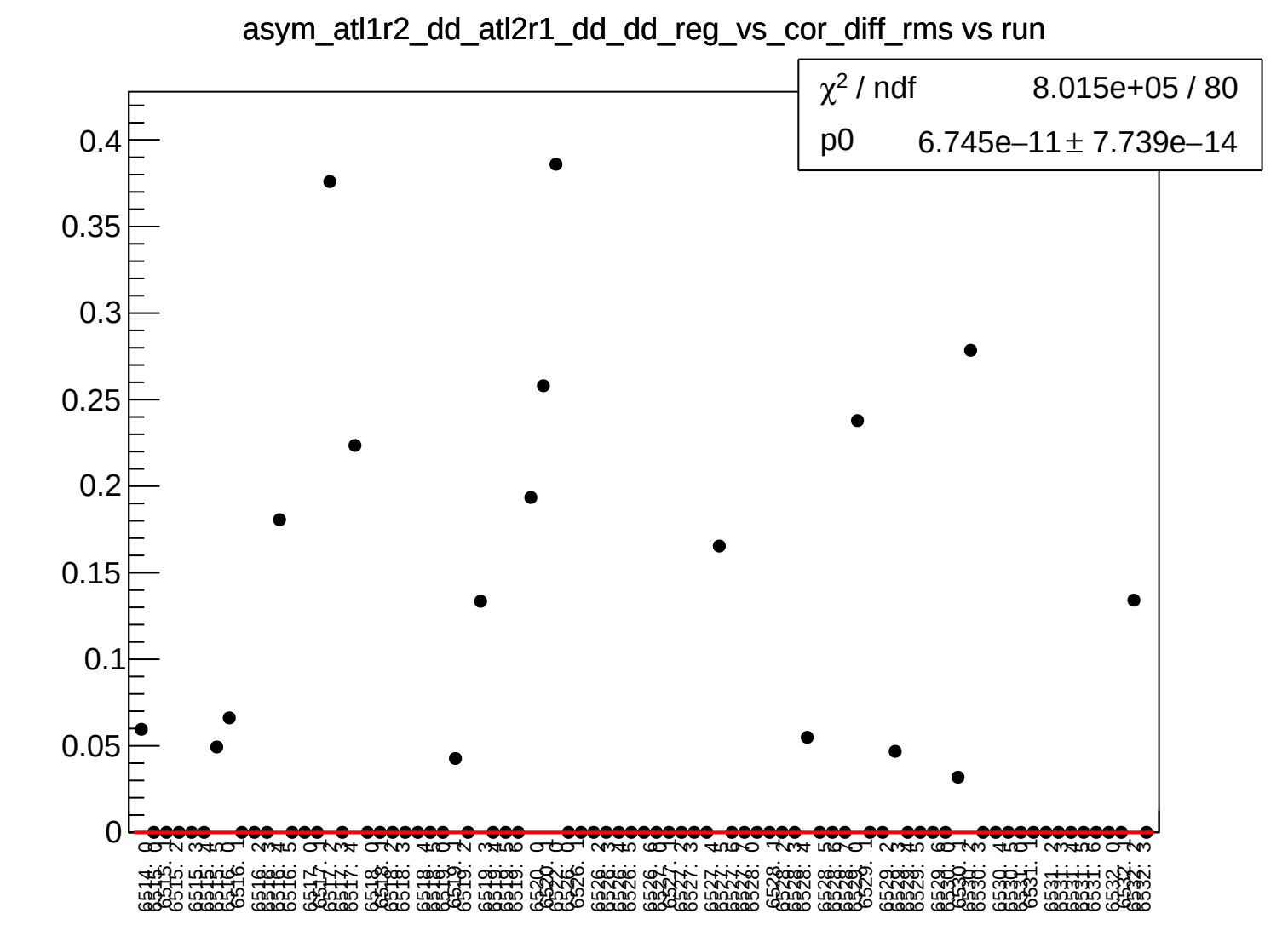

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 84.86 / 80
p0 5652 ± 4918
pull
Entries 81
Mean −67.35
Std Dev 0

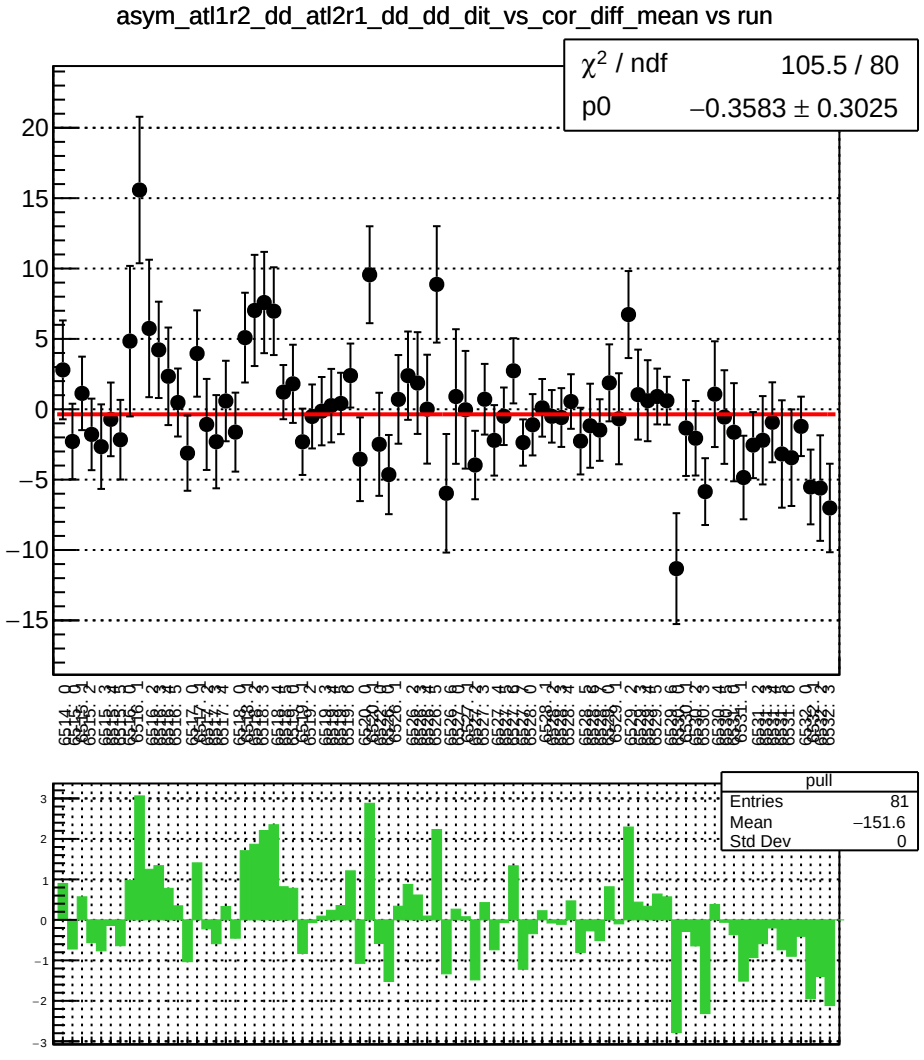

pull1D
Entries 81
Mean −0.01422
Std Dev 1.023

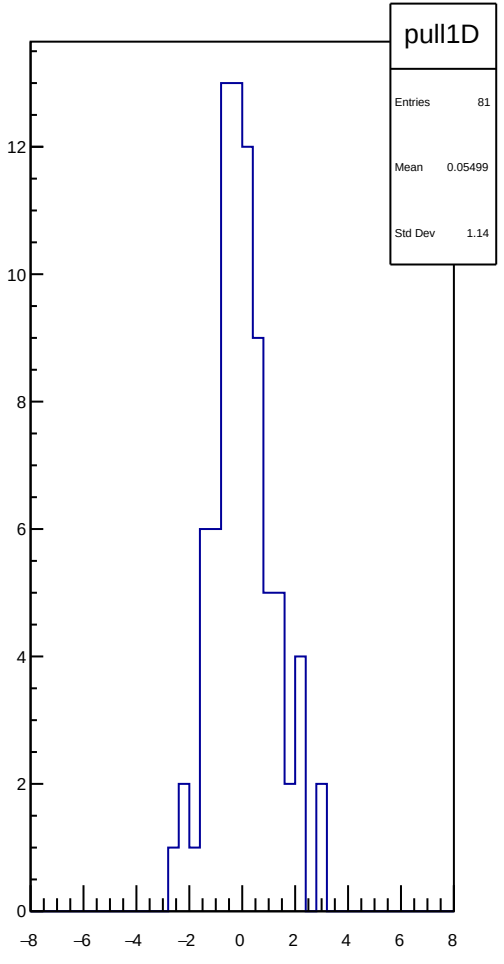

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 2.585e+04 / 80
p0 4308 ± 3.477
5500
5000
4500
4000
3500

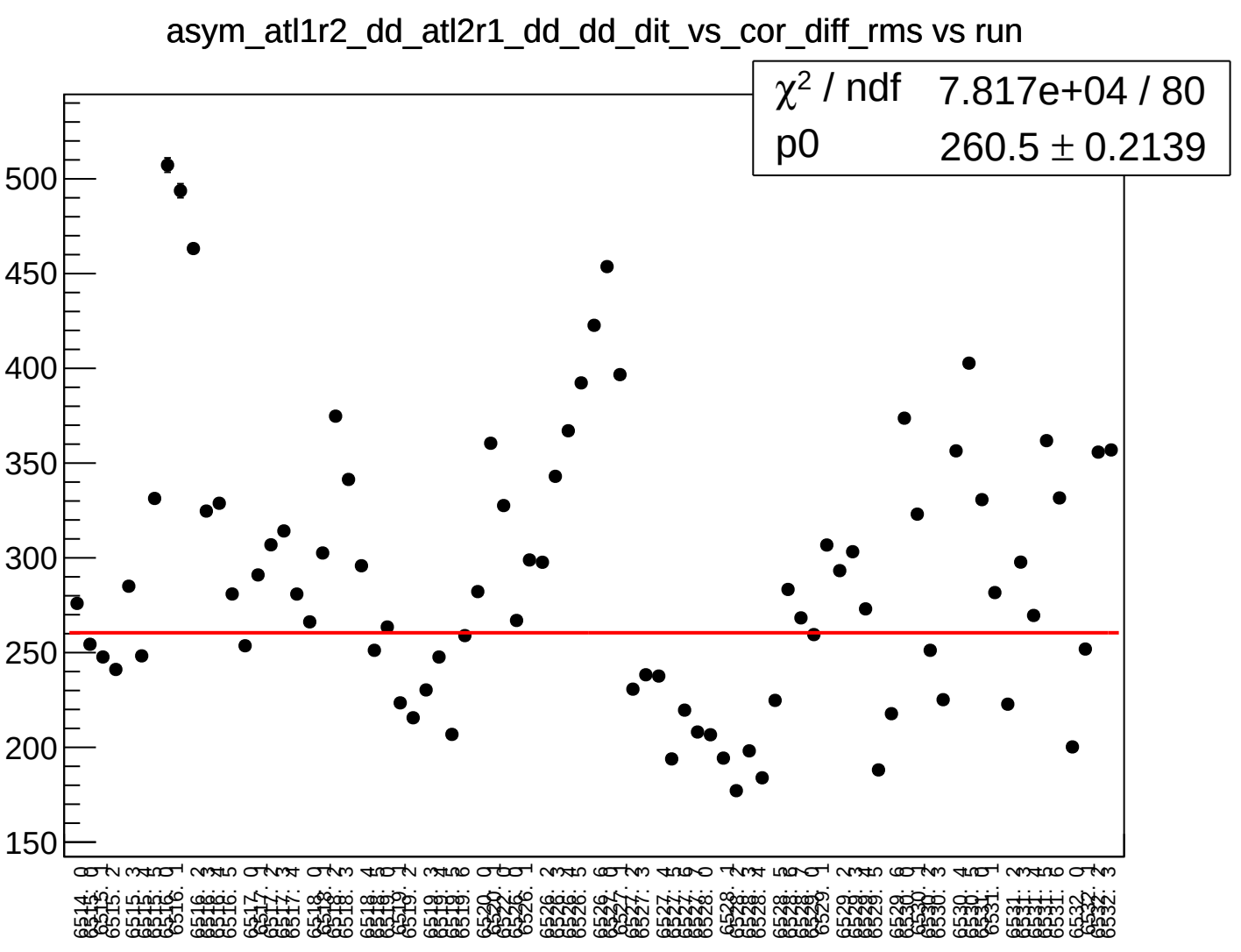

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 90.03 / 80
p0 9.95e−14 ± 1.095e−13
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
pull
Entries 81
Mean 126.6
Std Dev 0
3
2
1
0
−1
−2

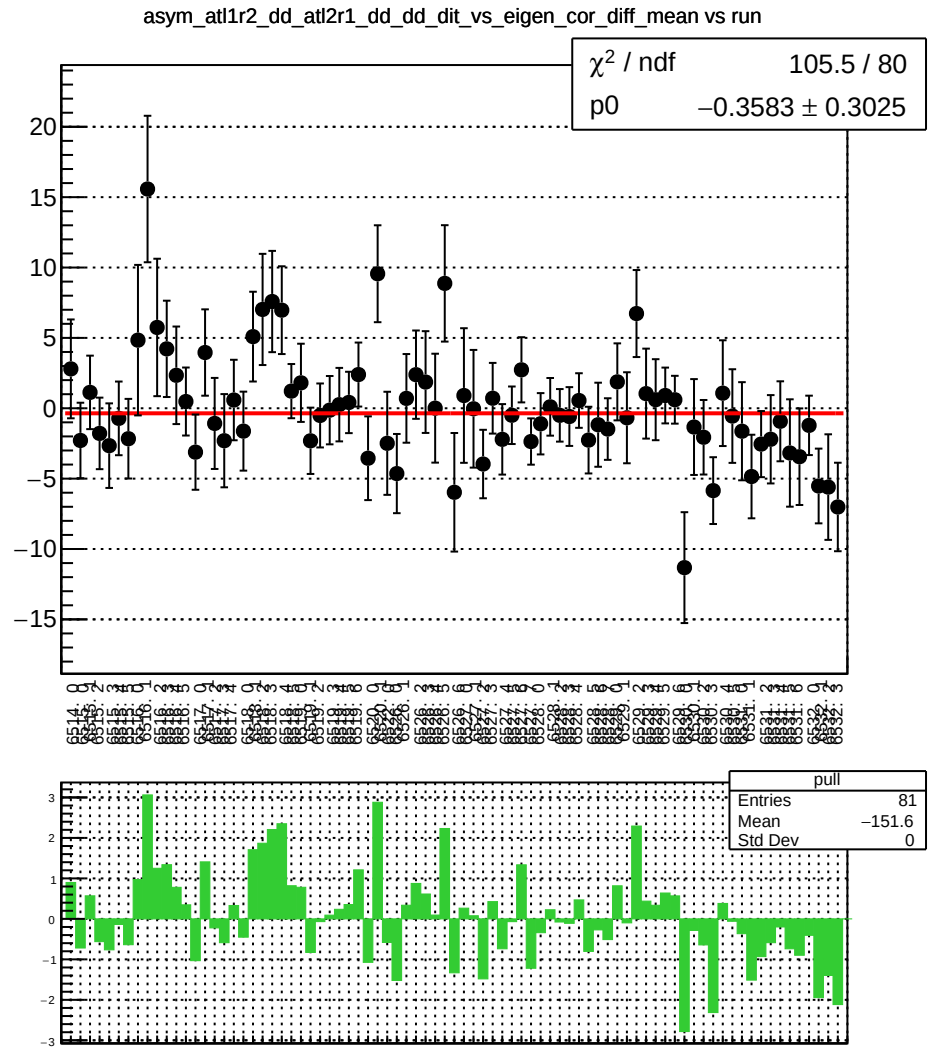

pull1D
Entries 81
Mean −0.02365
Std Dev 1.054
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

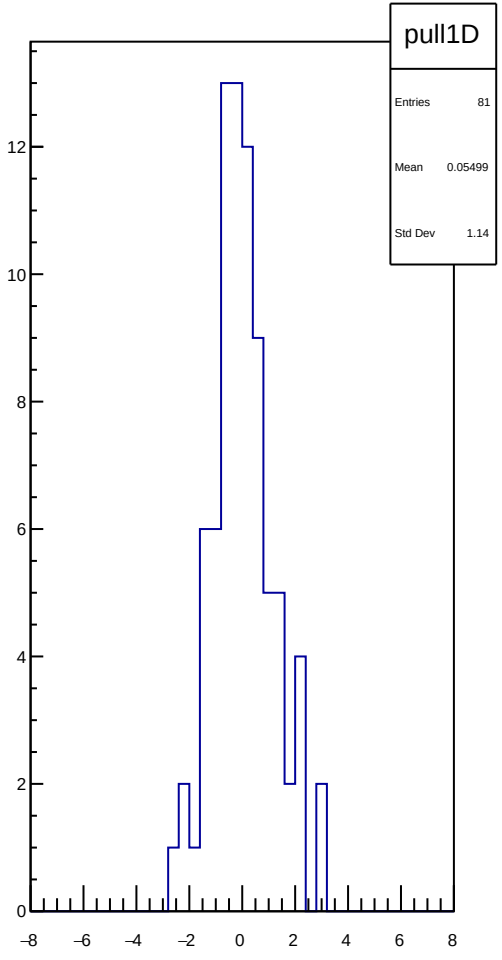

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.015e+05 / 80
p0 6.745e−11 ± 7.739e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0

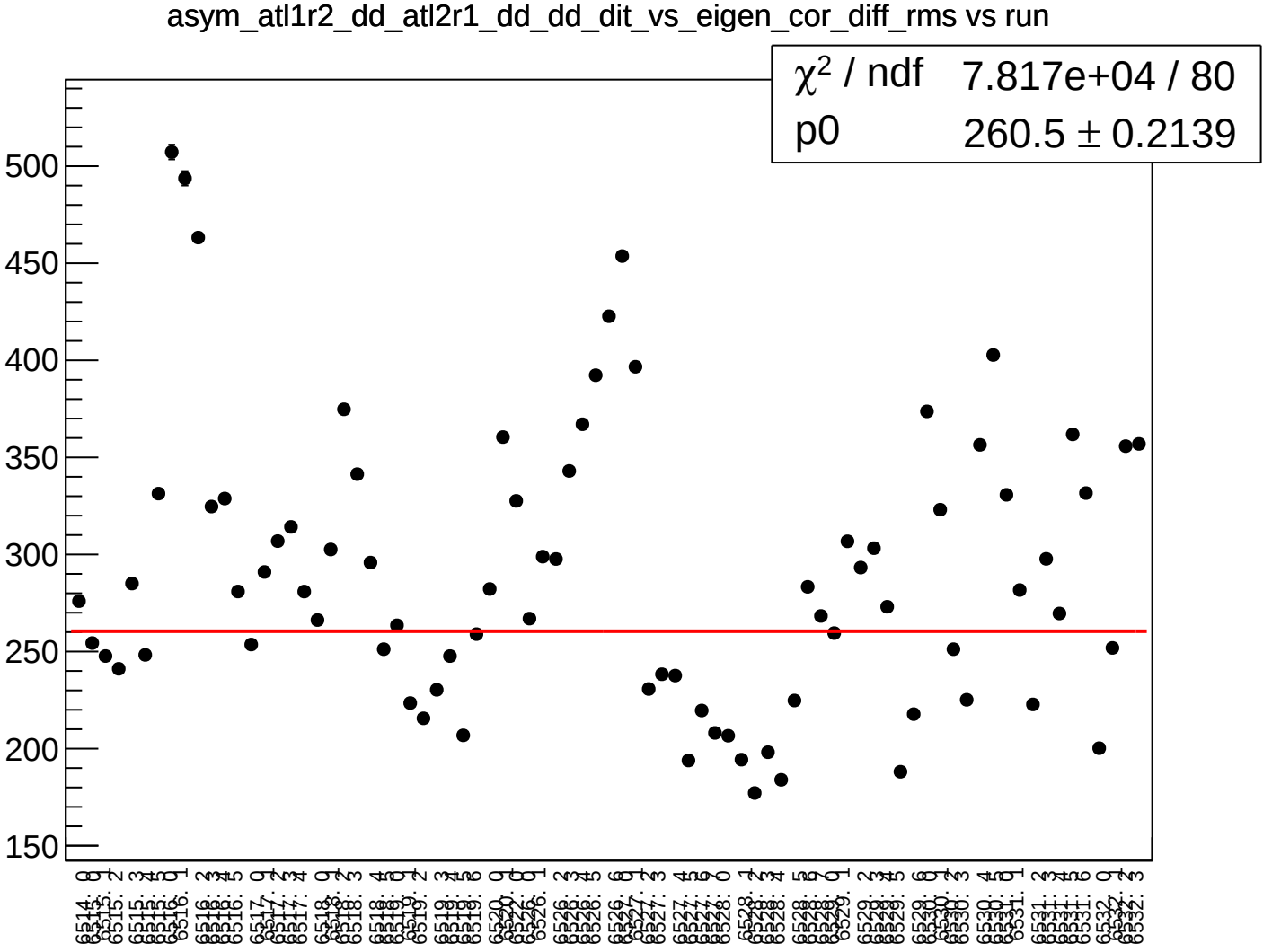

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 105.5 / 80
p0 −0.3583 ± 0.3025
pull
Entries 81
Mean −151.6
Std Dev 0

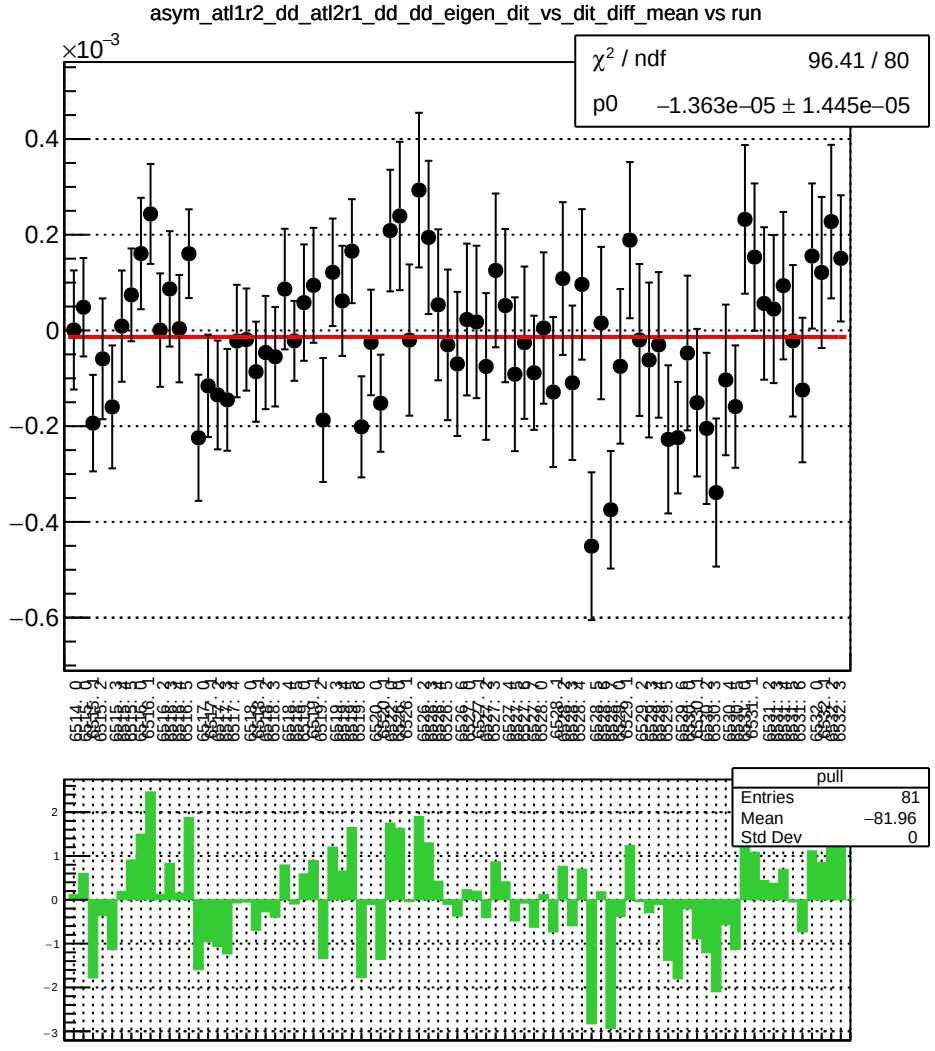

pull1D
Entries 81
Mean 0.05499
Std Dev 1.14

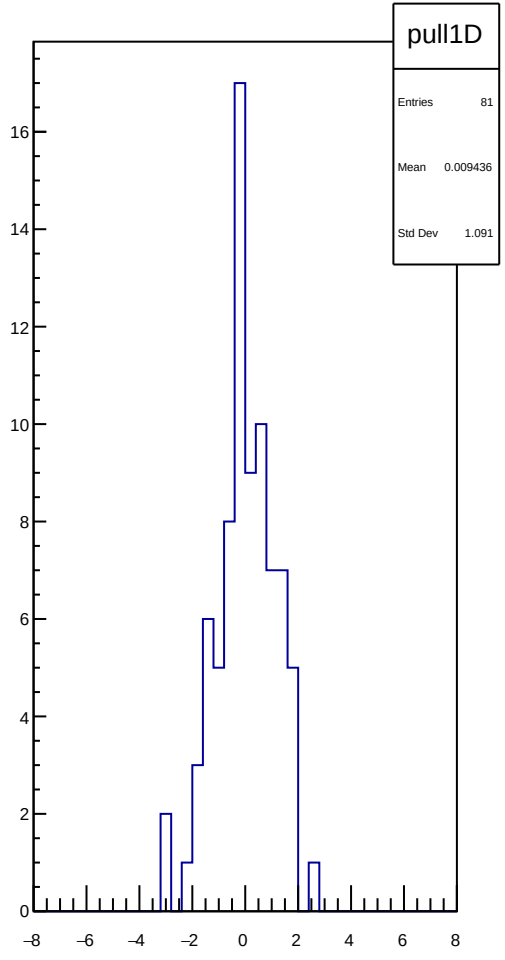

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.817e+04 / 80
p0 260.5 ± 0.2139
500
450
400
350
300
250
200
150

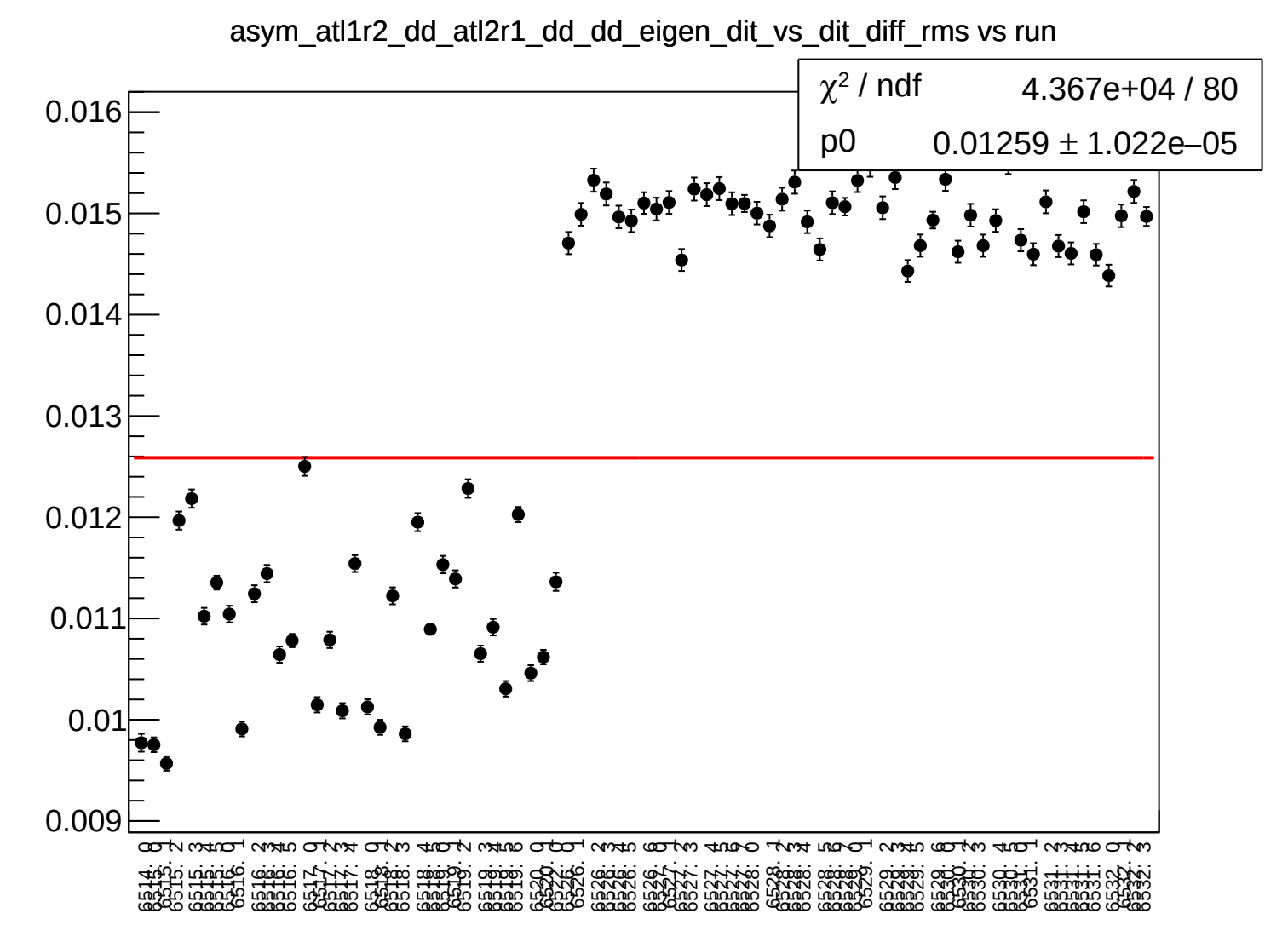

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.5 / 80
p0 −0.3583 ± 0.3025
pull
Entries 81
Mean −151.6
Std Dev 0

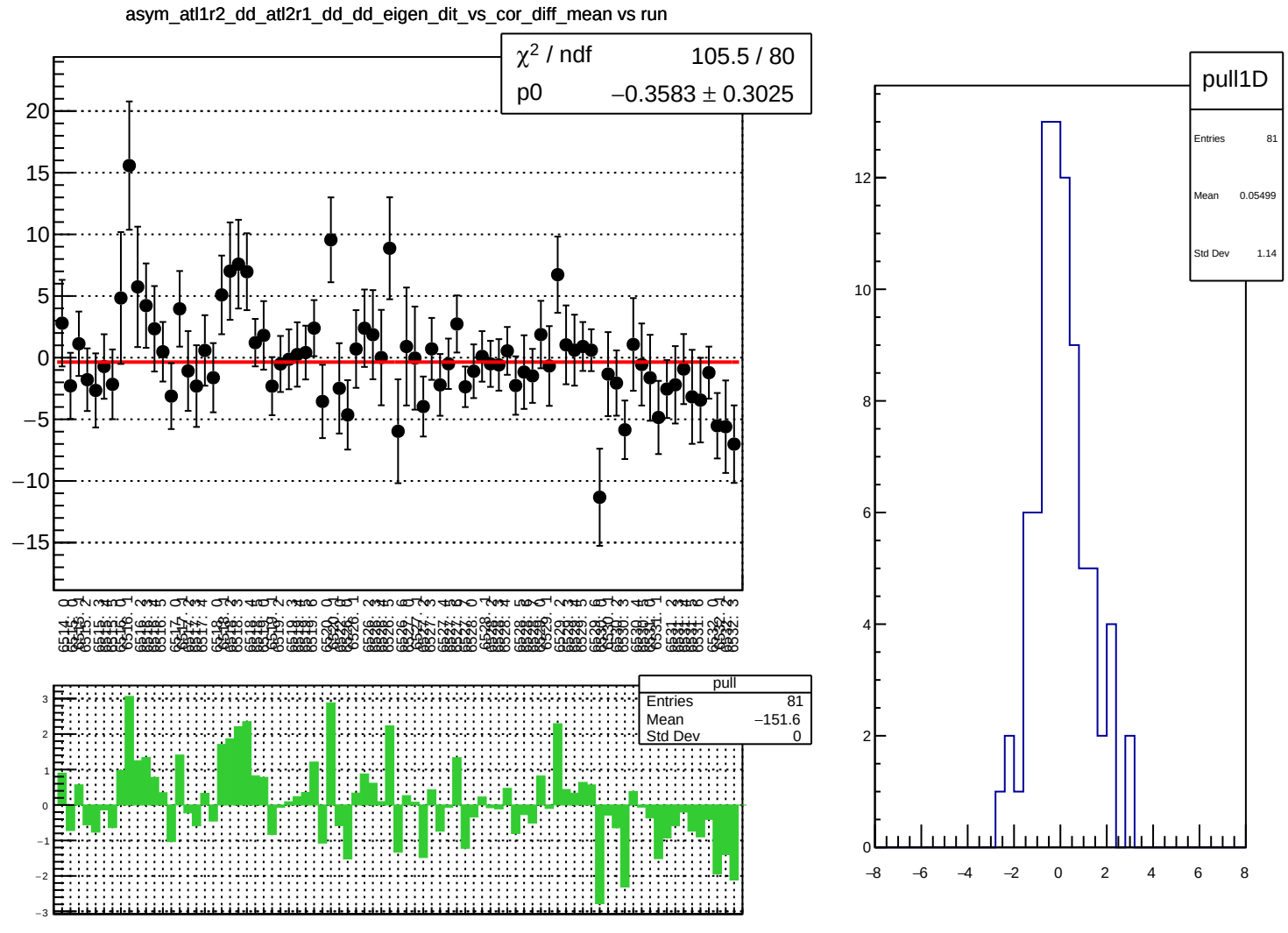

pull1D
Entries 81
Mean 0.05499
Std Dev 1.14

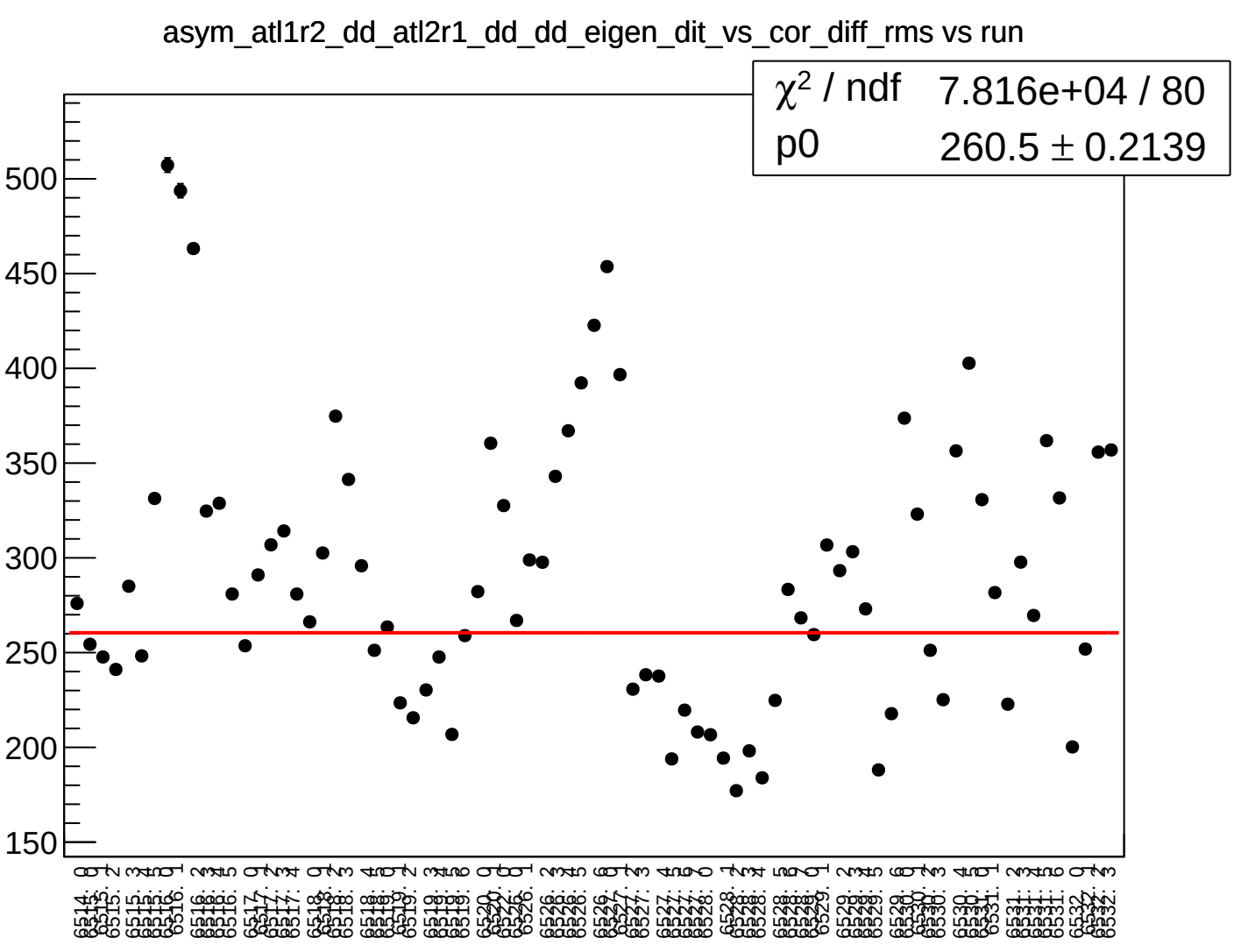

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.817e+04 / 80
p0 260.5 ± 0.2139
500
450
400
350
300
250
200
150

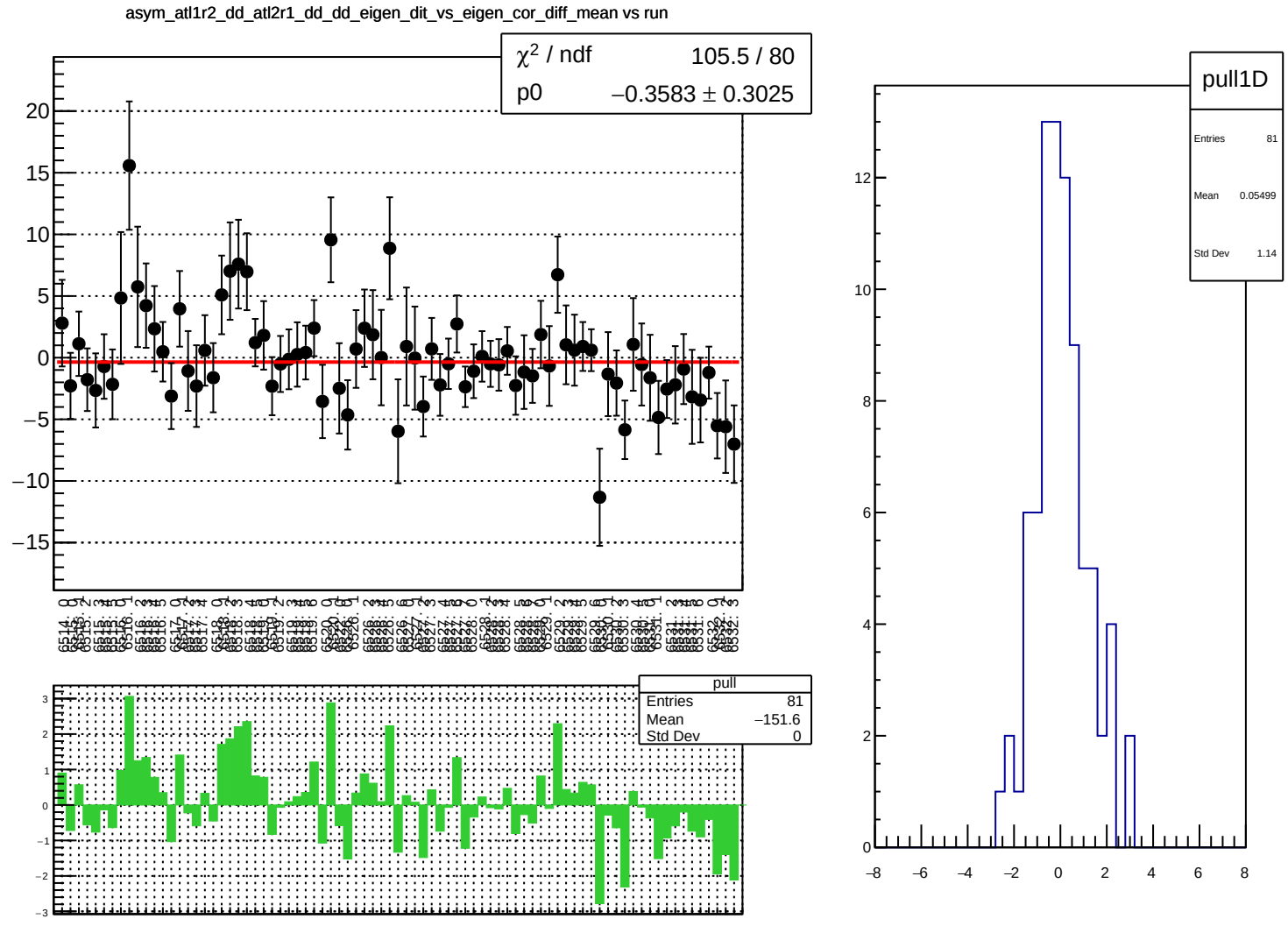

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.41 / 80
p0 −1.363e−05 ± 1.445e−05
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 81
Mean −81.96
Std Dev 0
2
1
0
−1
−2
−3

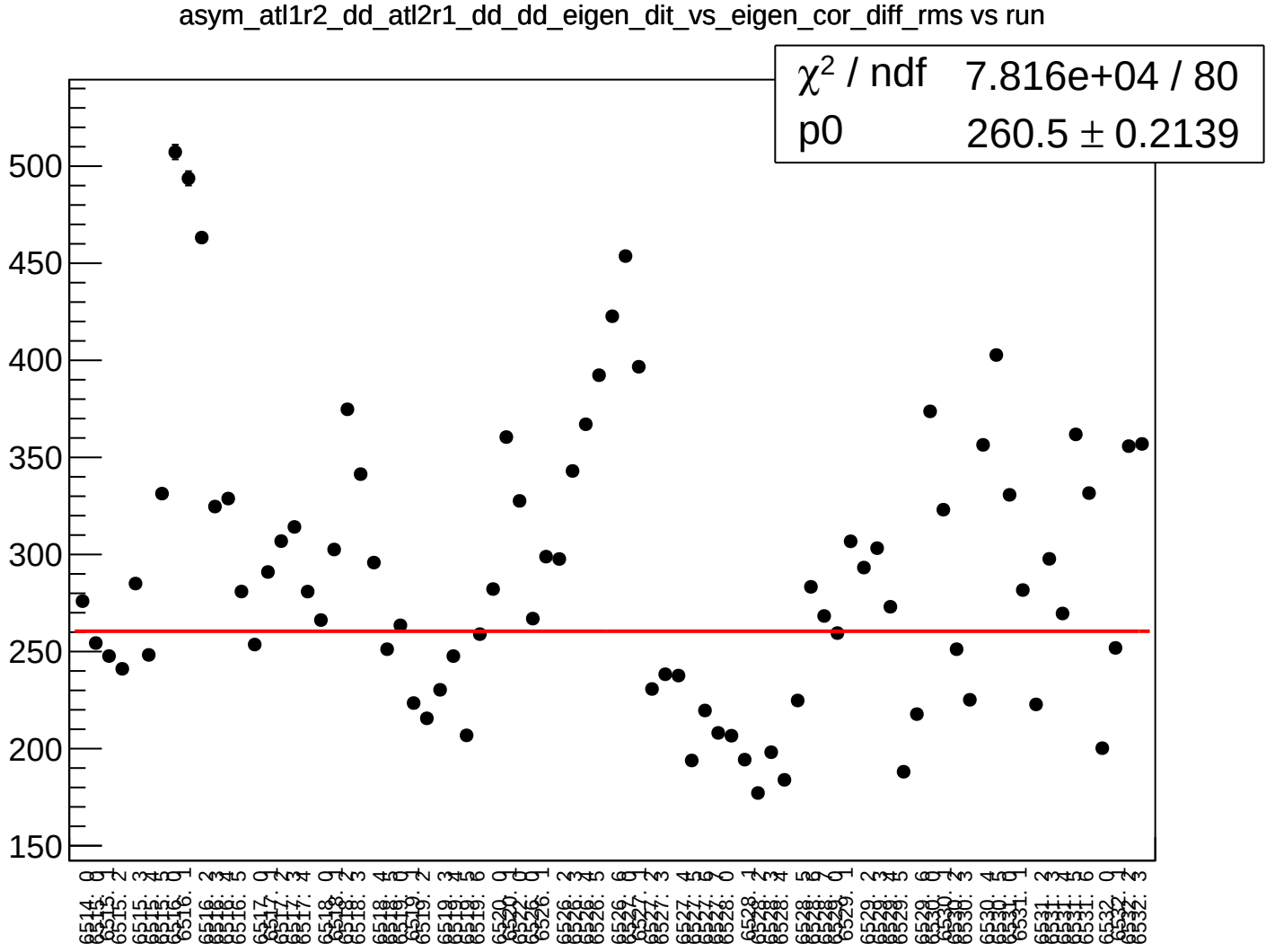

pull1D
Entries 81
Mean 0.009436
Std Dev 1.091
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

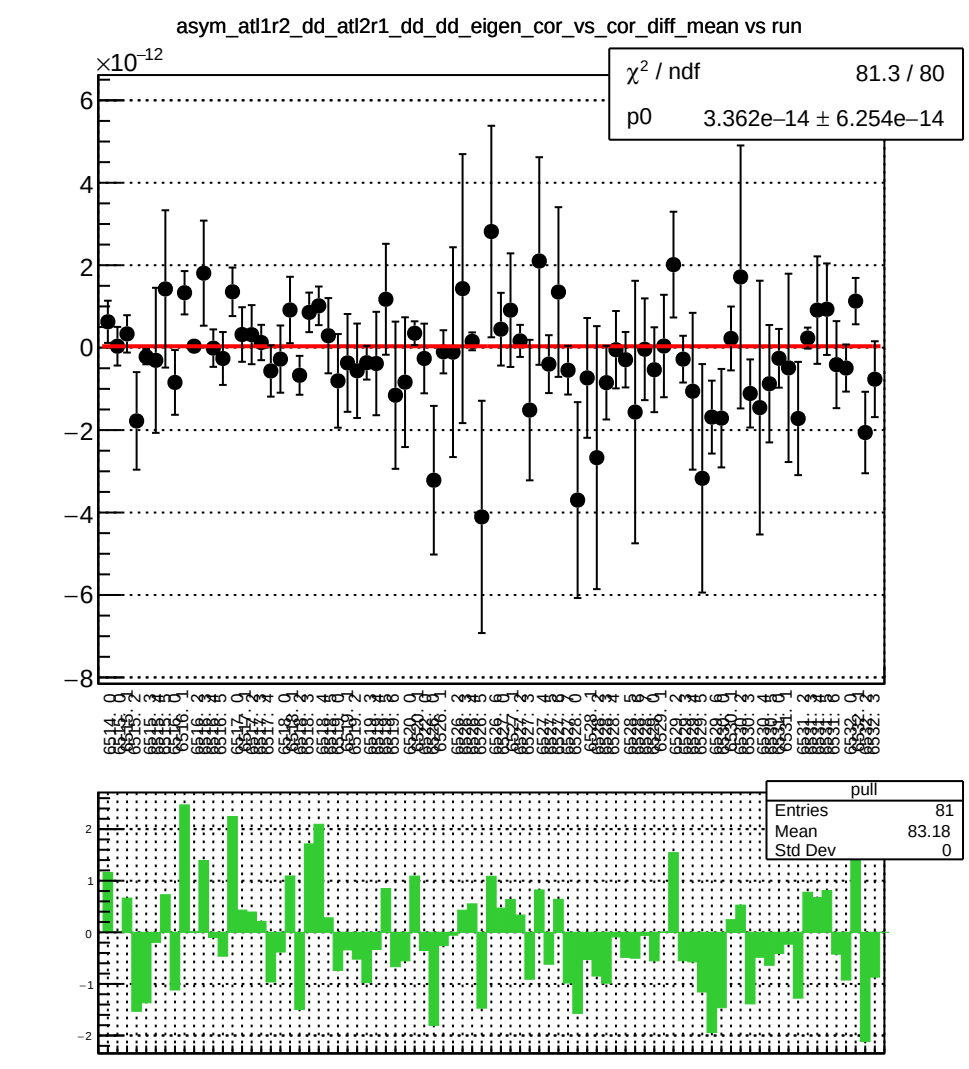

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.367e+04 / 80
p0 0.01259 ± 1.022e−05
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009

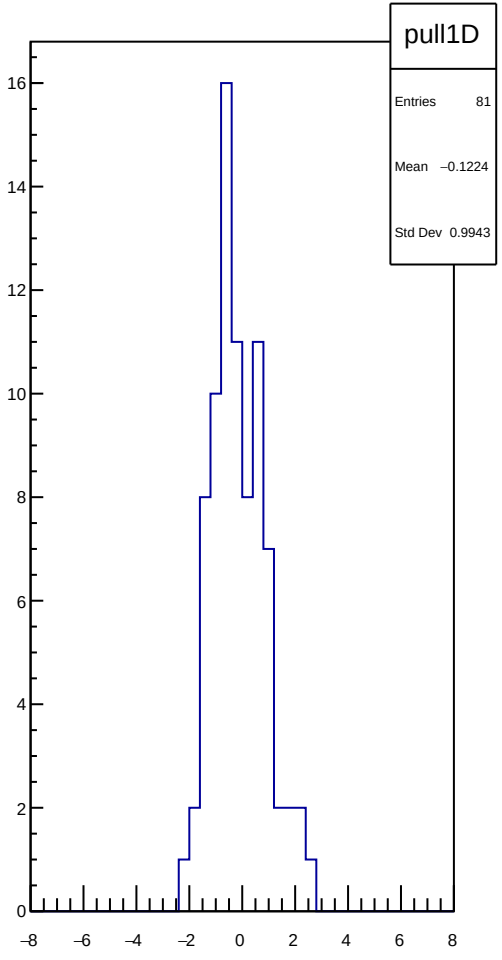

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 105.5 / 80
p0 −0.3583 ± 0.3025
pull
Entries 81
Mean −151.6
Std Dev 0
pull1D
Entries 81
Mean 0.05499
Std Dev 1.14

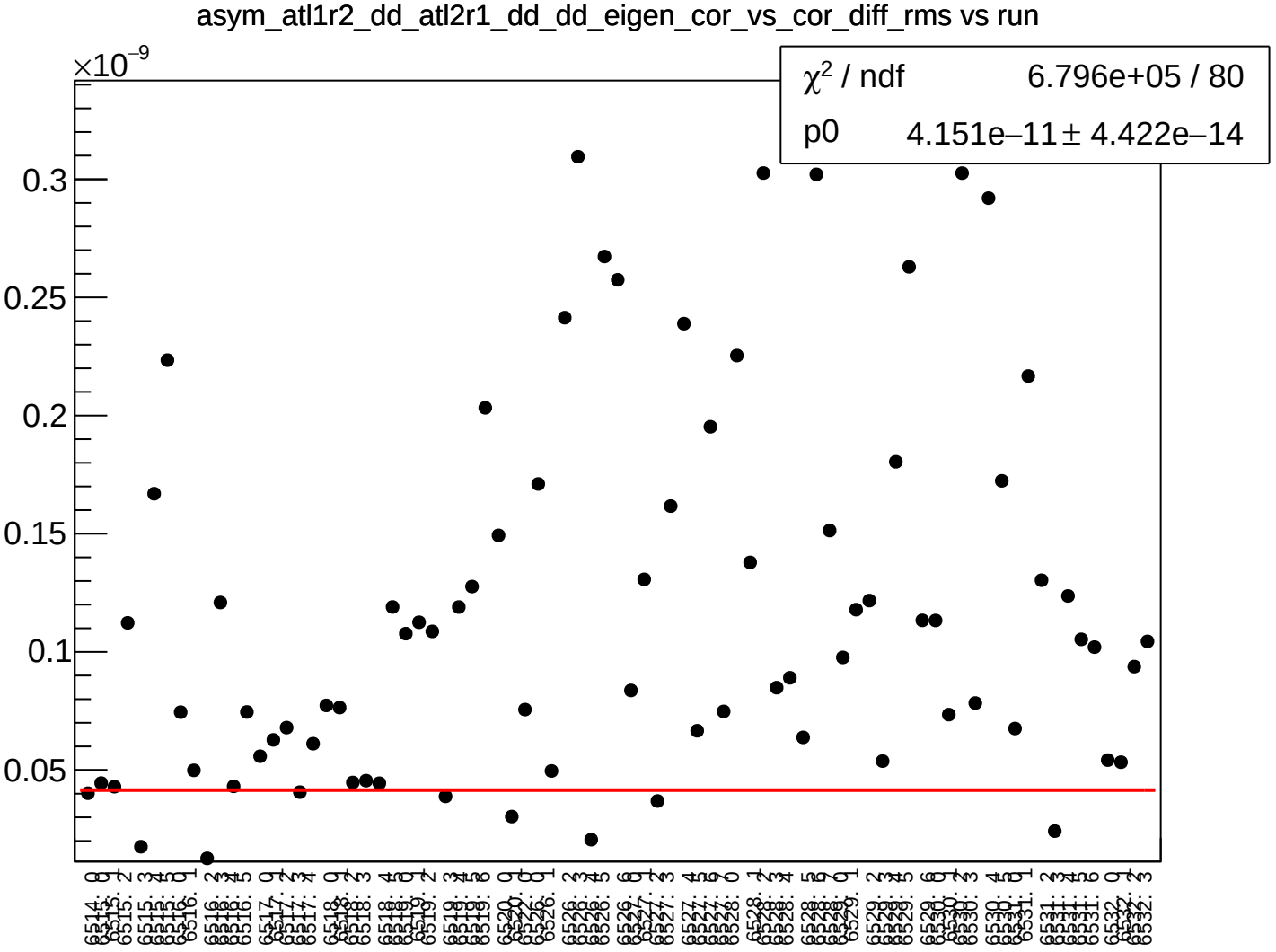

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.816e+04 / 80
p0 260.5 ± 0.2139
500
450
400
350
300
250
200
150

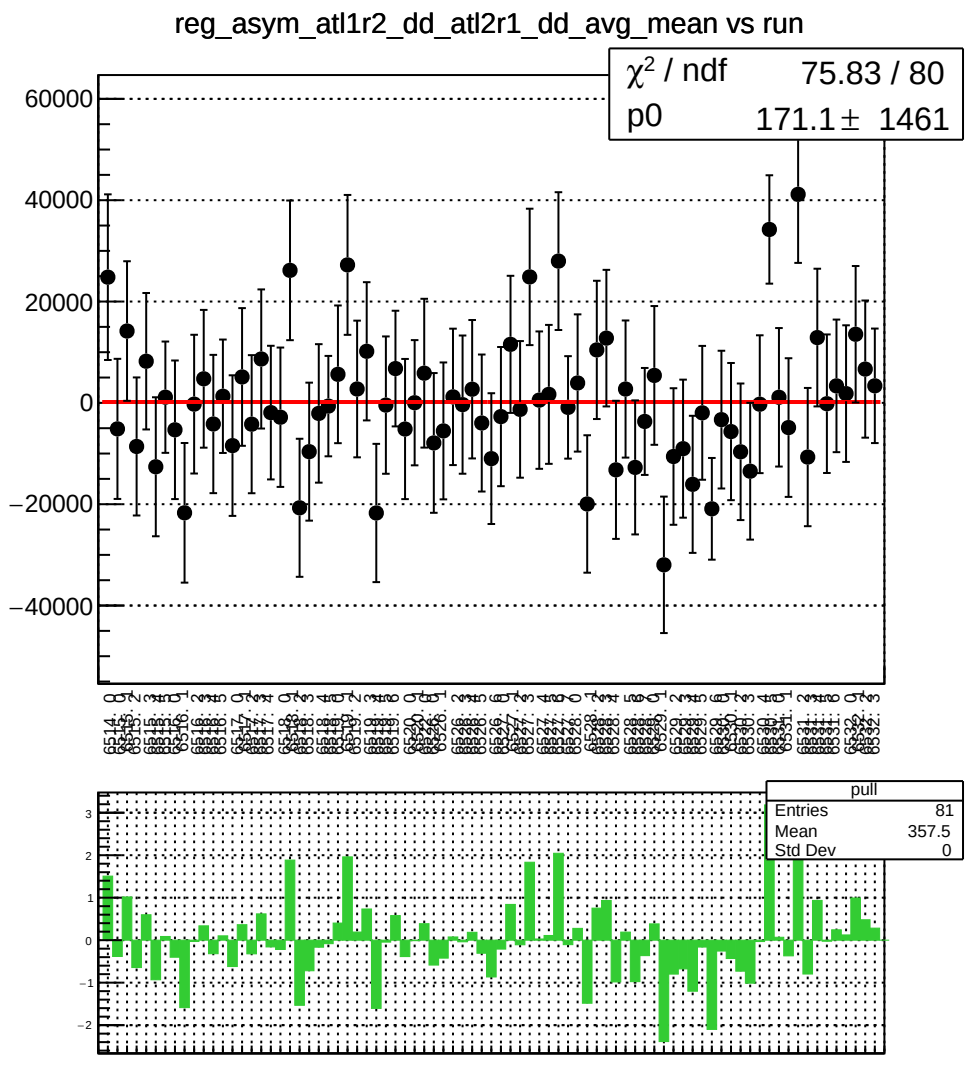

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.5 / 80
p0 −0.3583 ± 0.3025
pull
Entries 81
Mean −151.6
Std Dev 0
pull1D
Entries 81
Mean 0.05499
Std Dev 1.14

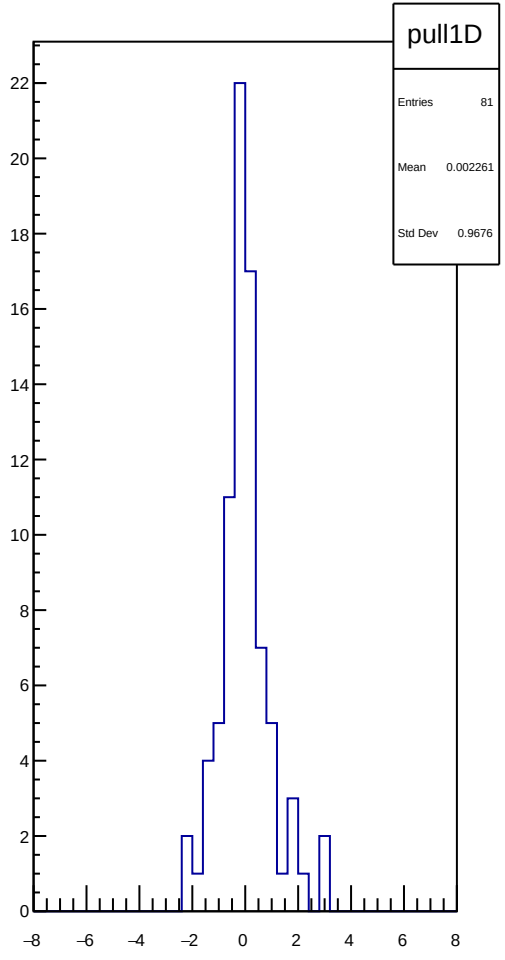

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.816e+04 / 80
p0 260.5 ± 0.2139
500
450
400
350
300
250
200
150

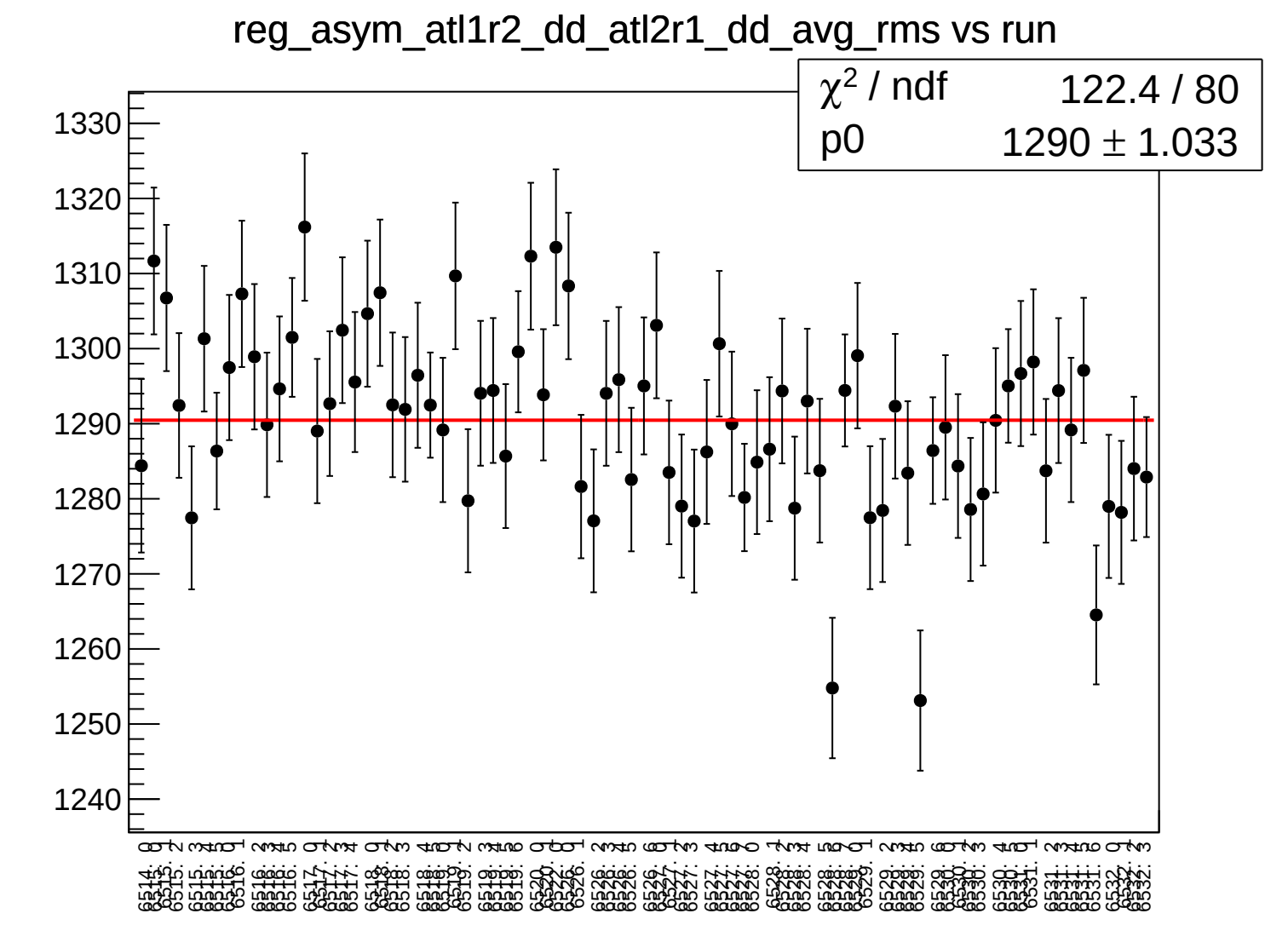

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.3 / 80
p0 3.362e−14 ± 6.254e−14
pull
Entries 81
Mean 83.18
Std Dev 0

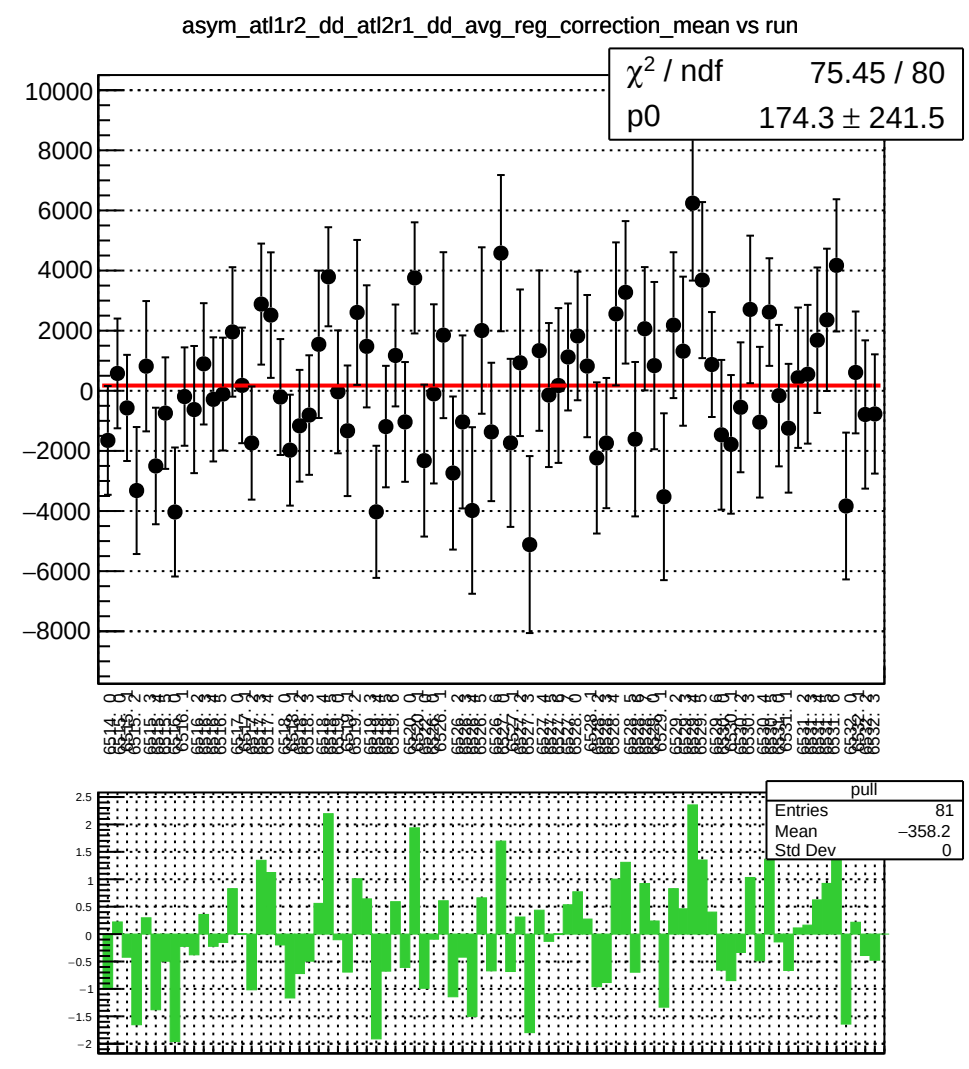

pull1D
Entries 81
Mean −0.1224
Std Dev 0.9943

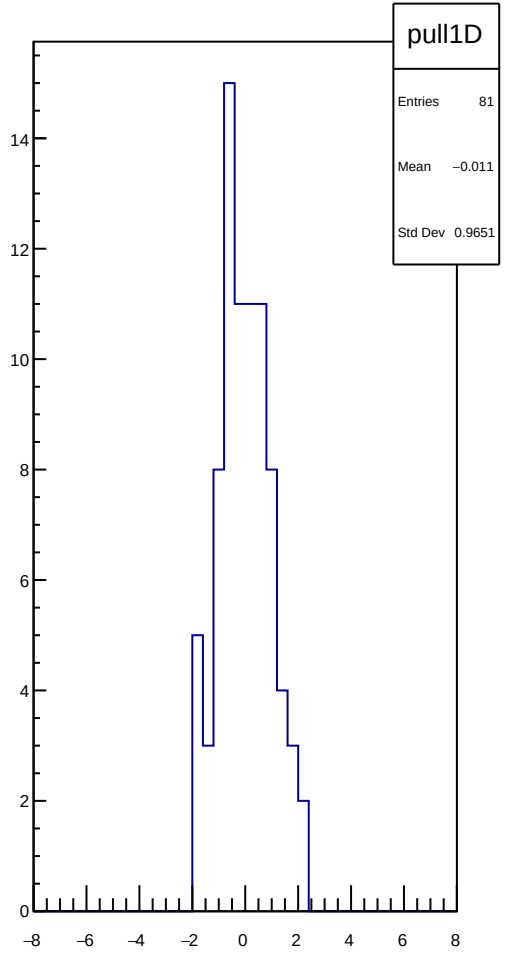

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.796e+05 / 80
p0 4.151e−11 ± 4.422e−14
0.3
0.25
0.2
0.15
0.1
0.05

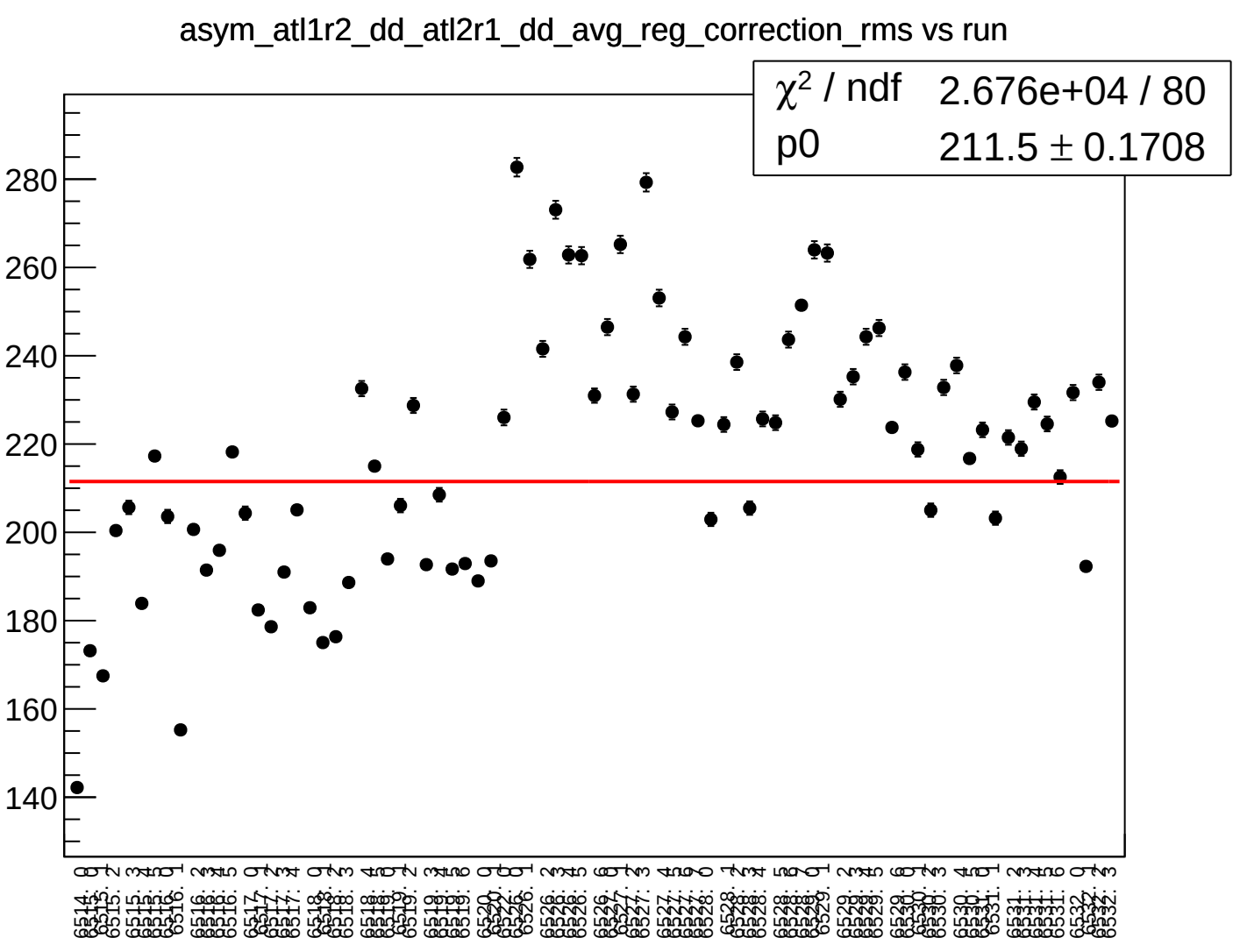

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 75.83 / 80
p0 171.1 ± 1461
60000
40000
20000
0
−20000
−40000
pull
Entries 81
Mean 357.5
Std Dev 0
3
2
1
0
−1
−2

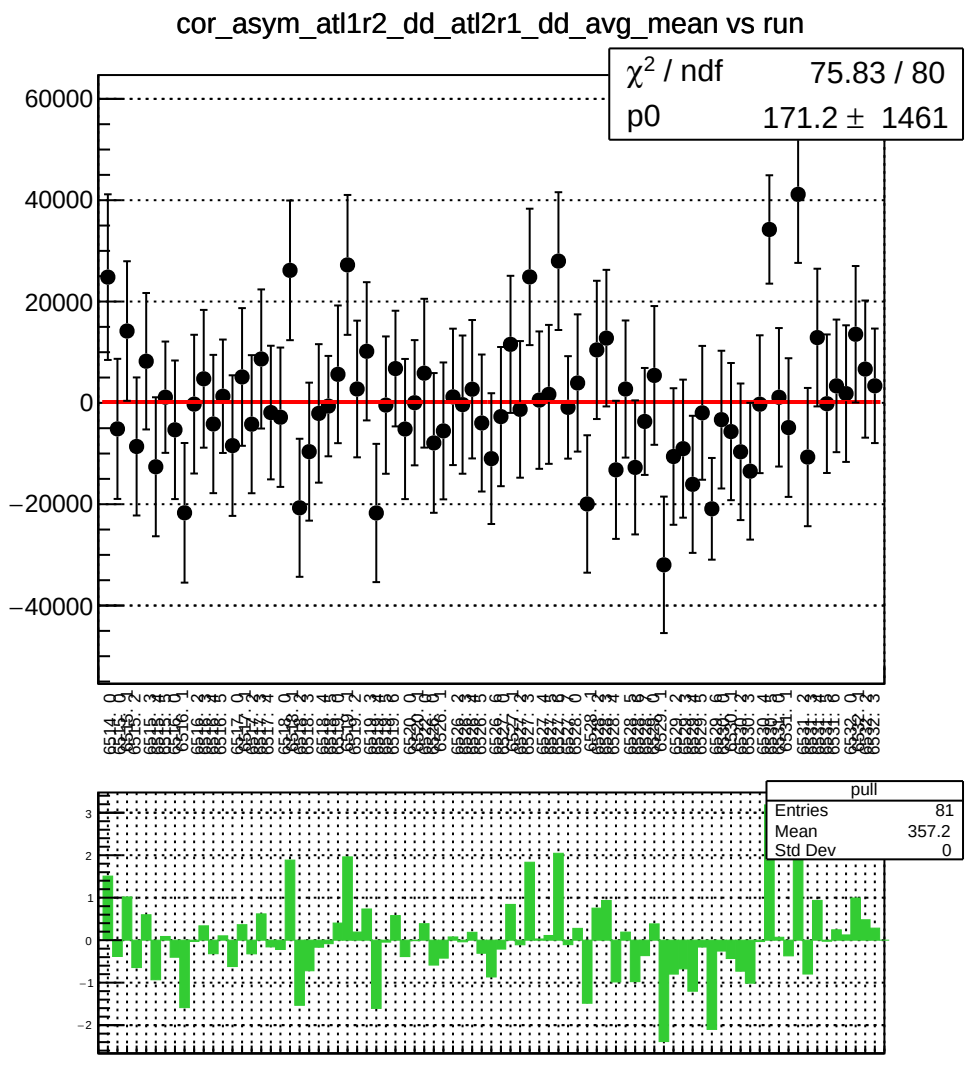

pull1D
Entries 81
Mean 0.002261
Std Dev 0.9676
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

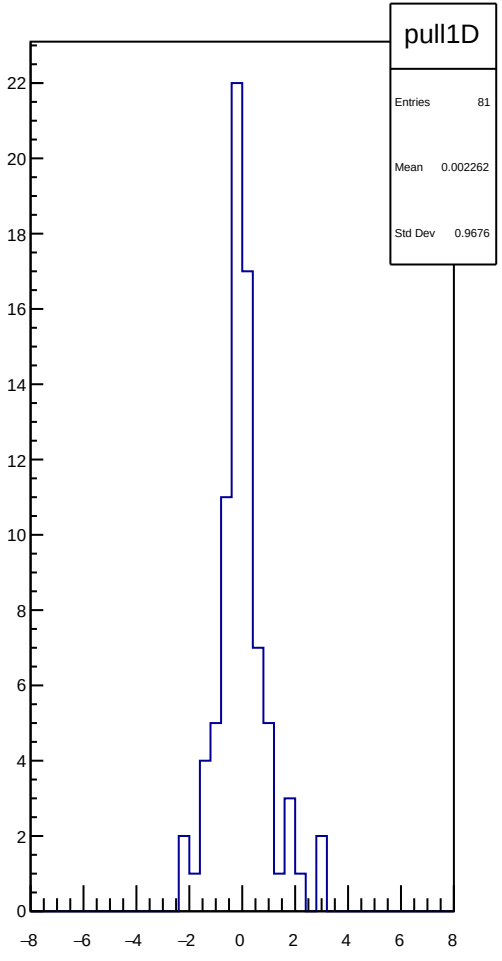

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 122.4 / 80
p0 1290 ± 1.033
1330
1320
1310
1300
1290
1280
1270
1260
1250
1240

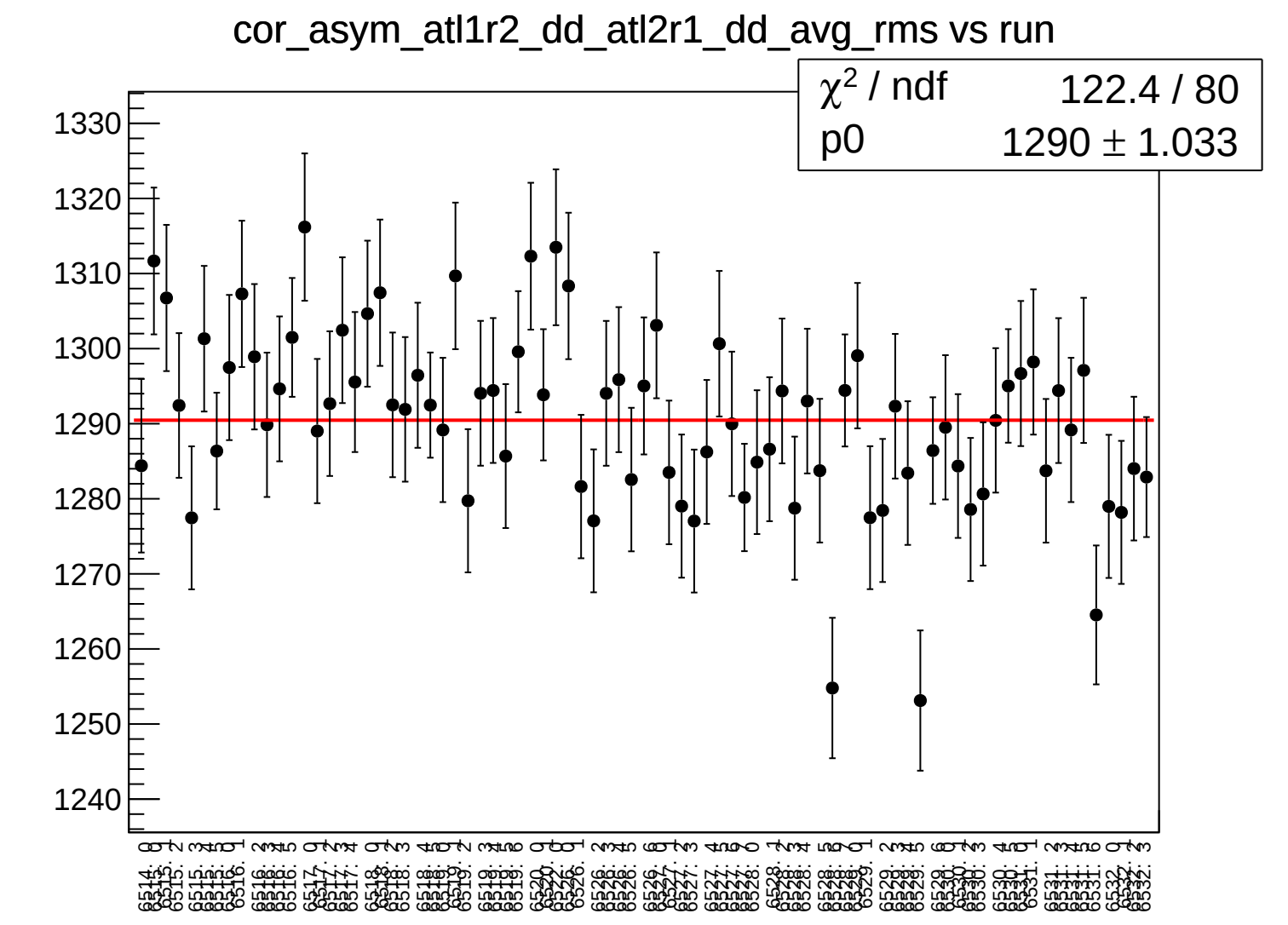

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 75.45 / 80
p0 174.3 ± 241.5
pull
Entries 81
Mean −358.2
Std Dev 0

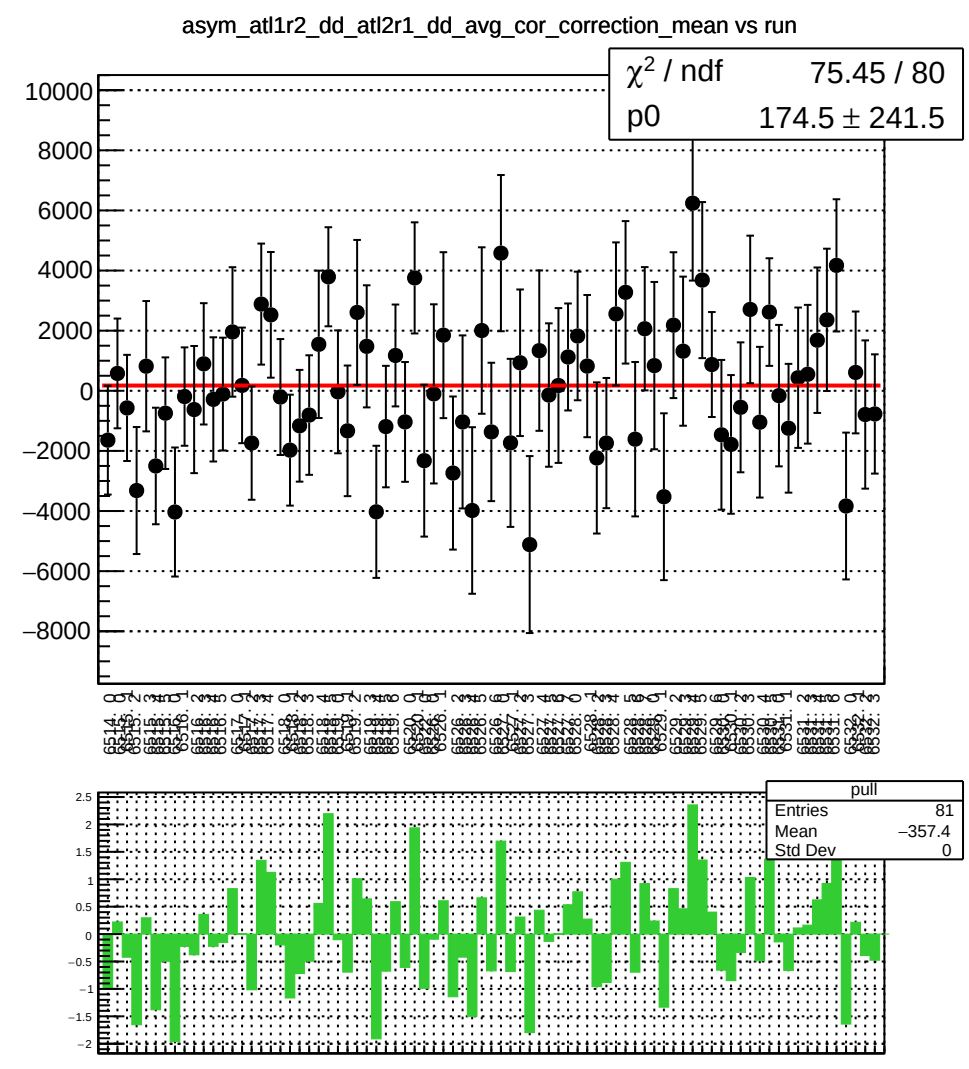

pull1D
Entries 81
Mean −0.011
Std Dev 0.9651

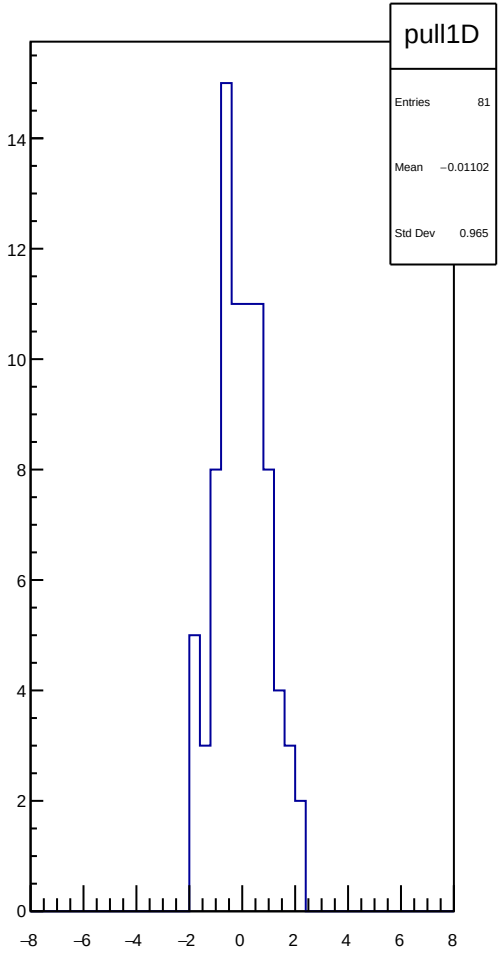

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 2.676e+04 / 80
p0 211.5 ± 0.1708
280
260
240
220
200
180
160
140

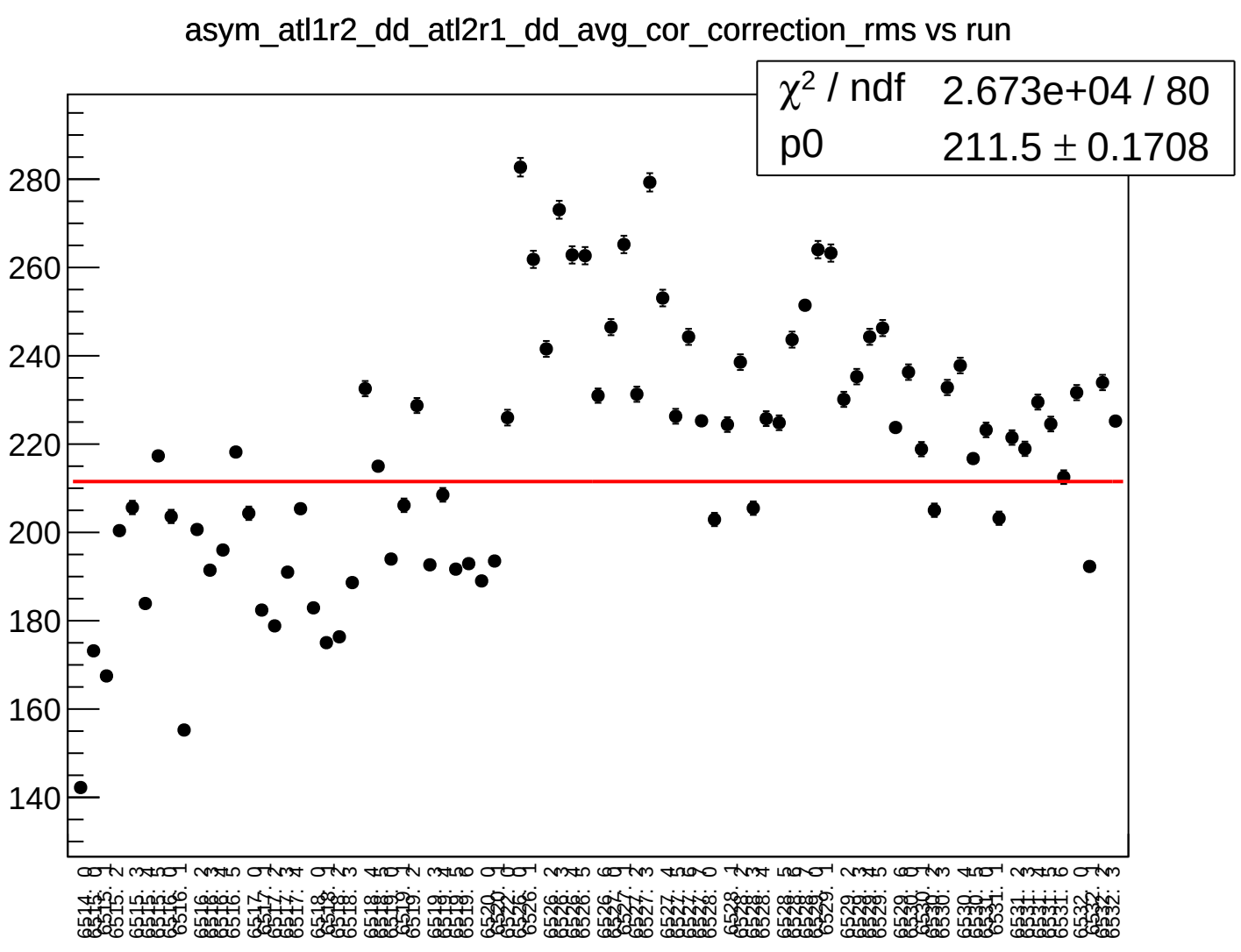

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 75.83 / 80
p0 171.2 ± 1461
pull
Entries 81
Mean 357.2
Std Dev 0

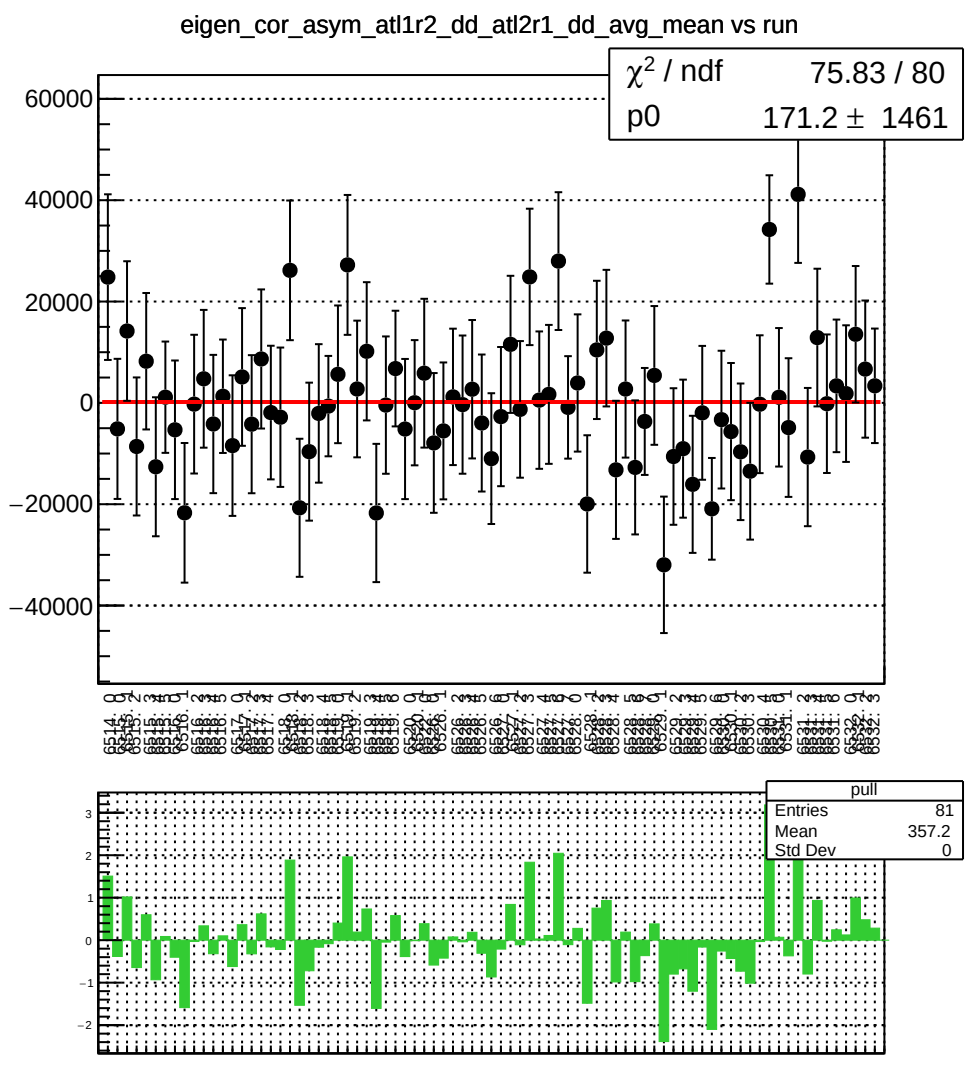

pull1D
Entries 81
Mean 0.002262
Std Dev 0.9676

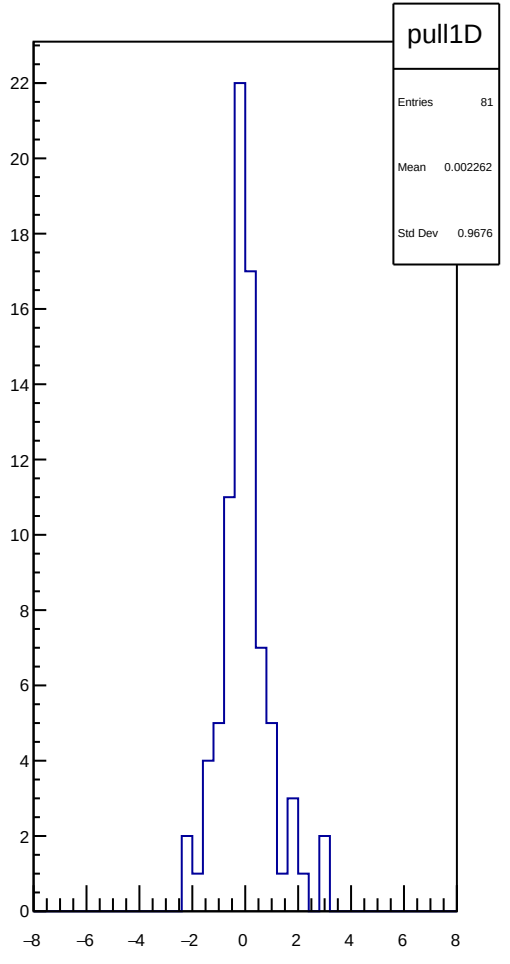

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 122.4 / 80
p0 1290 ± 1.033
1330
1320
1310
1300
1290
1280
1270
1260
1250
1240

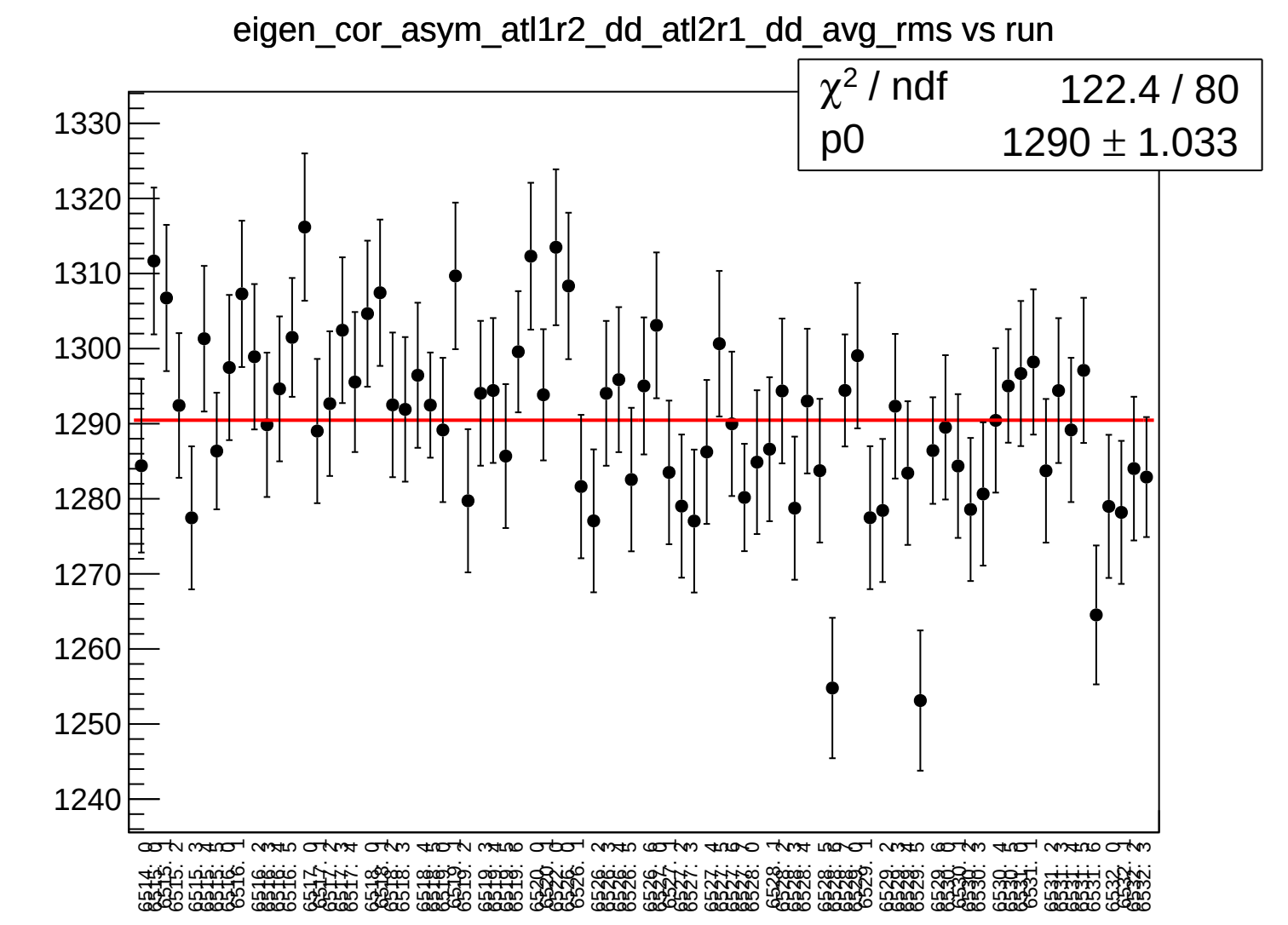

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 75.45 / 80
p0 174.5 ± 241.5
pull
Entries 81
Mean −357.4
Std Dev 0

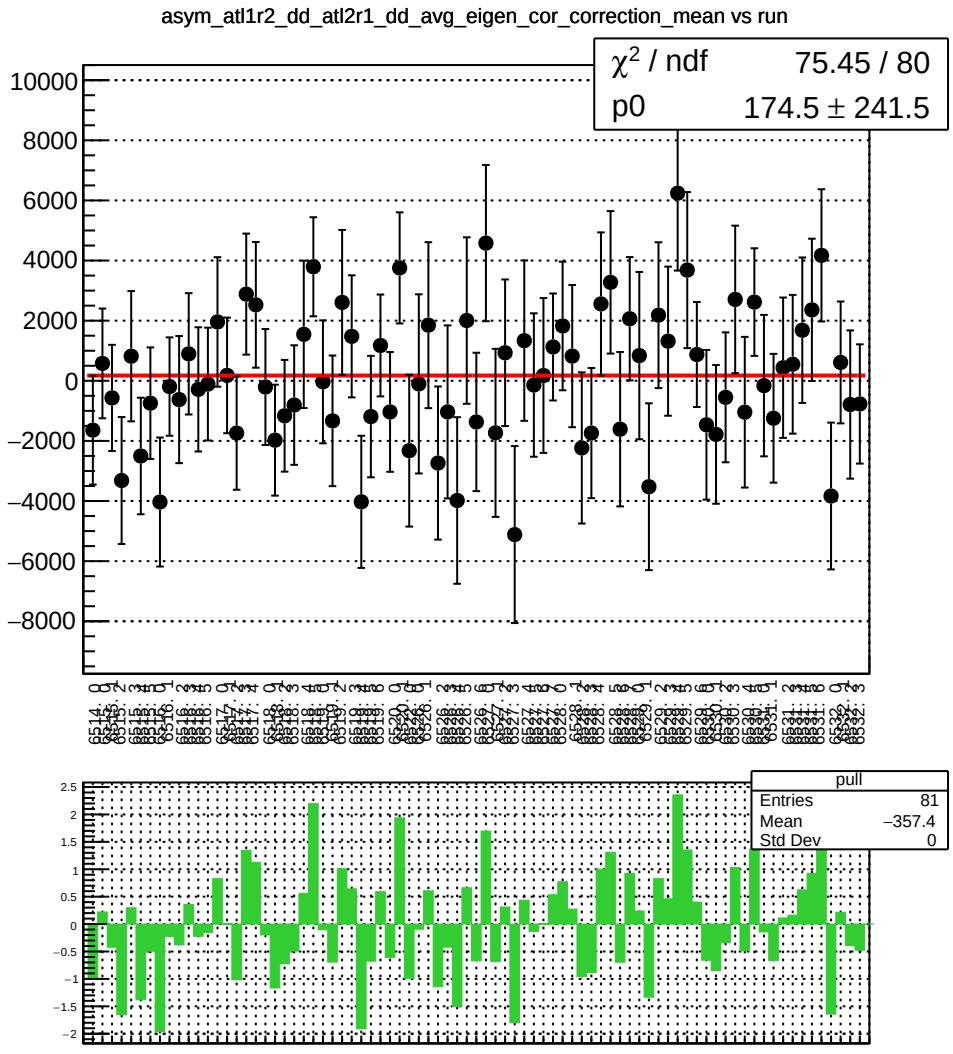

pull1D
Entries 81
Mean −0.01102
Std Dev 0.965

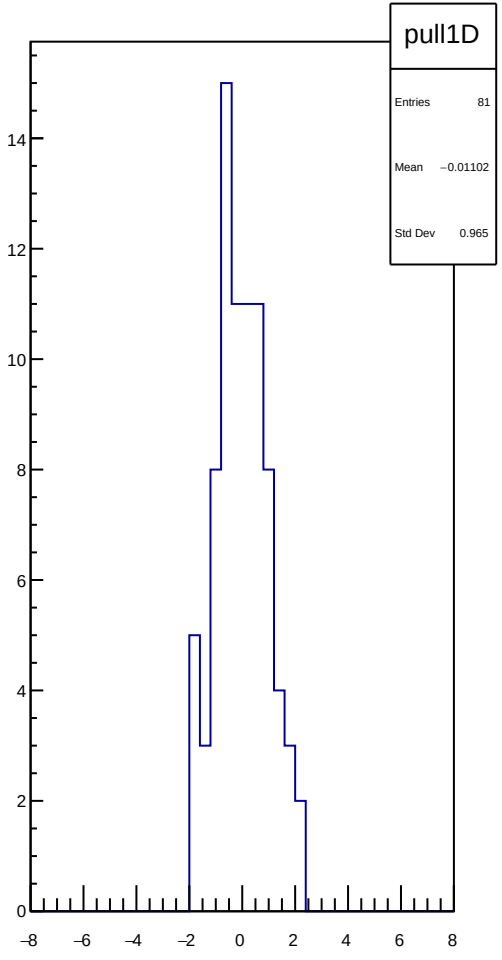

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 2.673e+04 / 80
p0 211.5 ± 0.1708
280
260
240
220
200
180
160
140

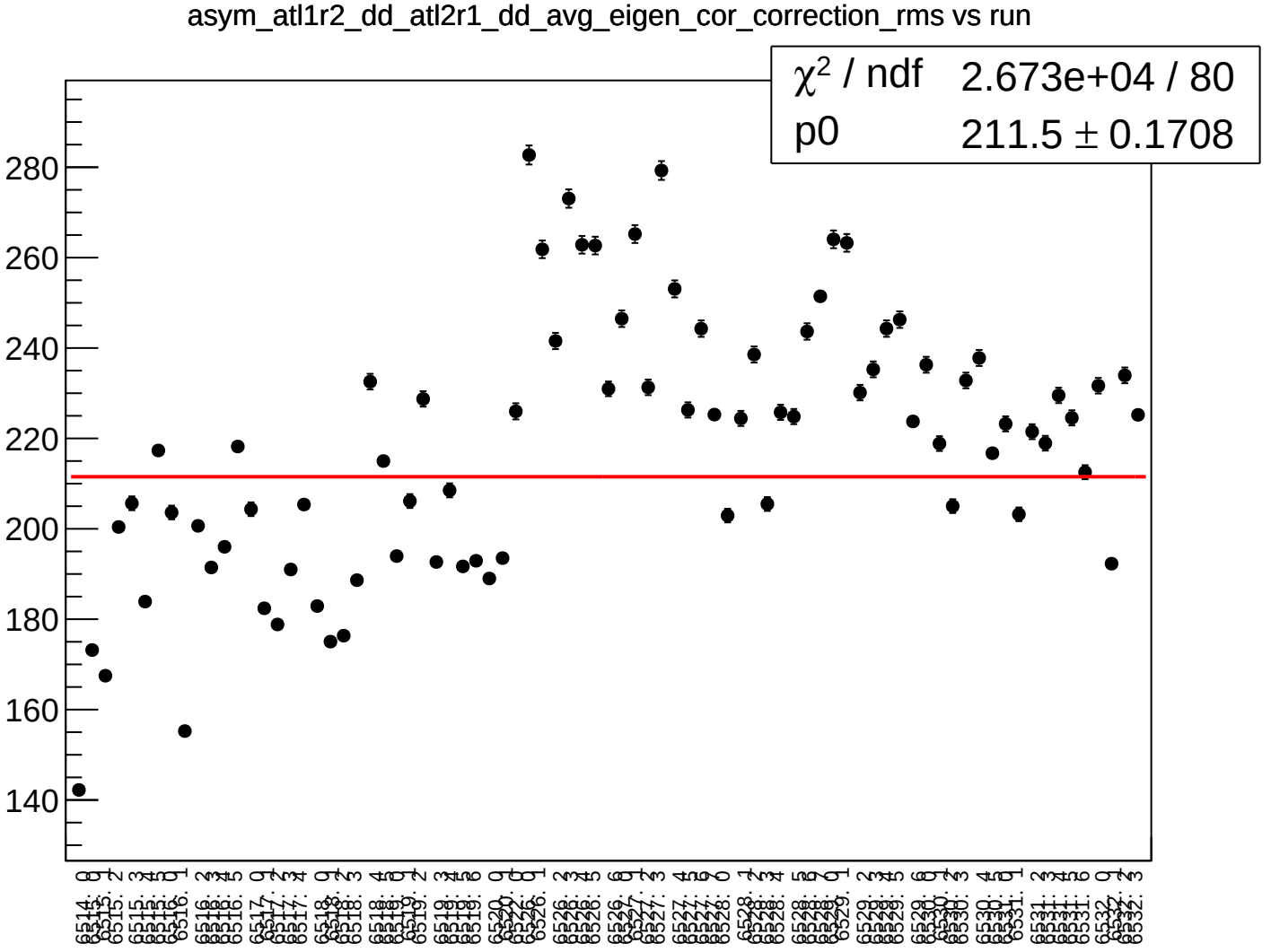

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 75.83 / 80
p0 171.2 ± 1461
60000
40000
20000
0
−20000
−40000
pull
Entries 81
Mean 357.2
Std Dev 0
3
2
1
0
−1
−2

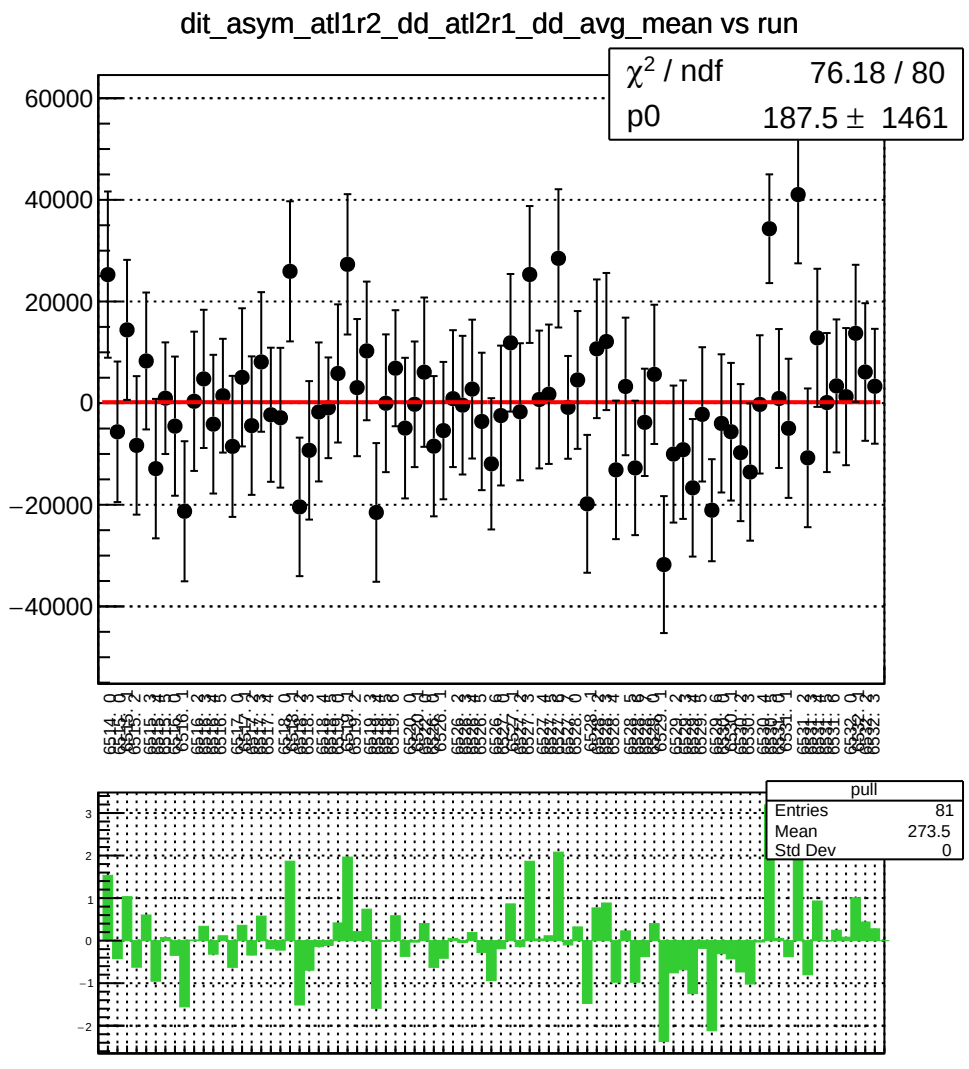

pull1D
Entries 81
Mean 0.002262
Std Dev 0.9676
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

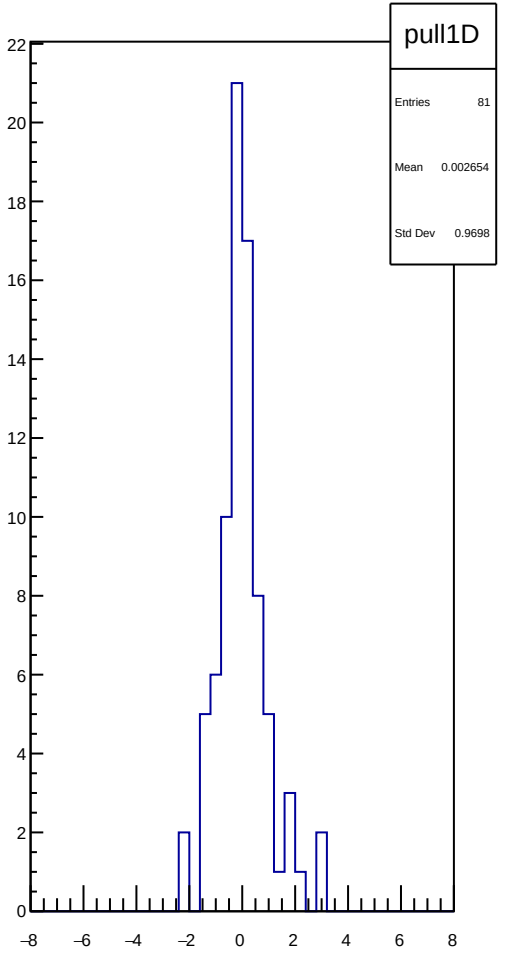

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 122.4 / 80
p0 1290 ± 1.033
1330
1320
1310
1300
1290
1280
1270
1260
1250
1240

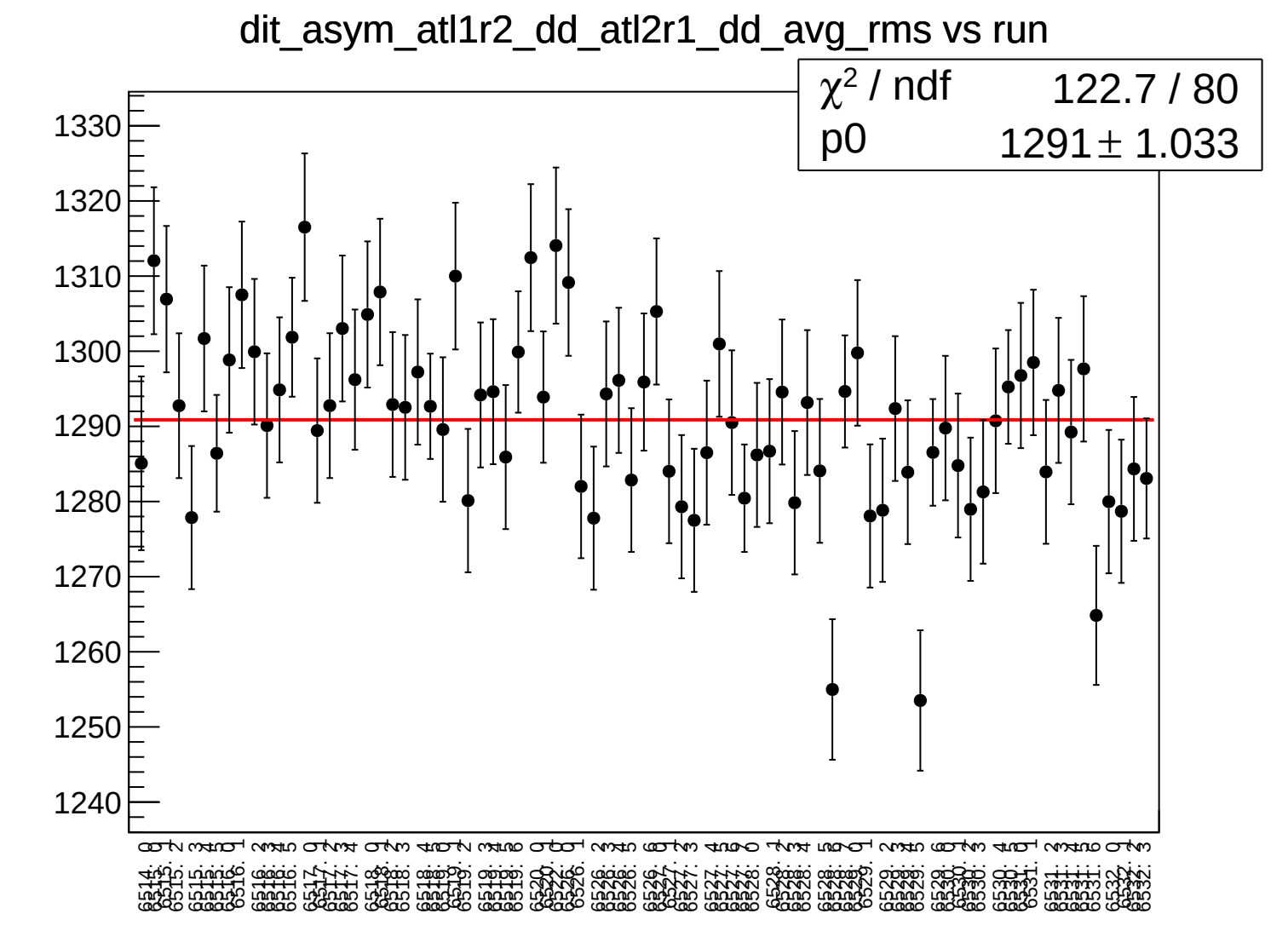

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 75.45 / 80
p0 174.5 ± 241.5
pull
Entries 81
Mean −357.4
Std Dev 0

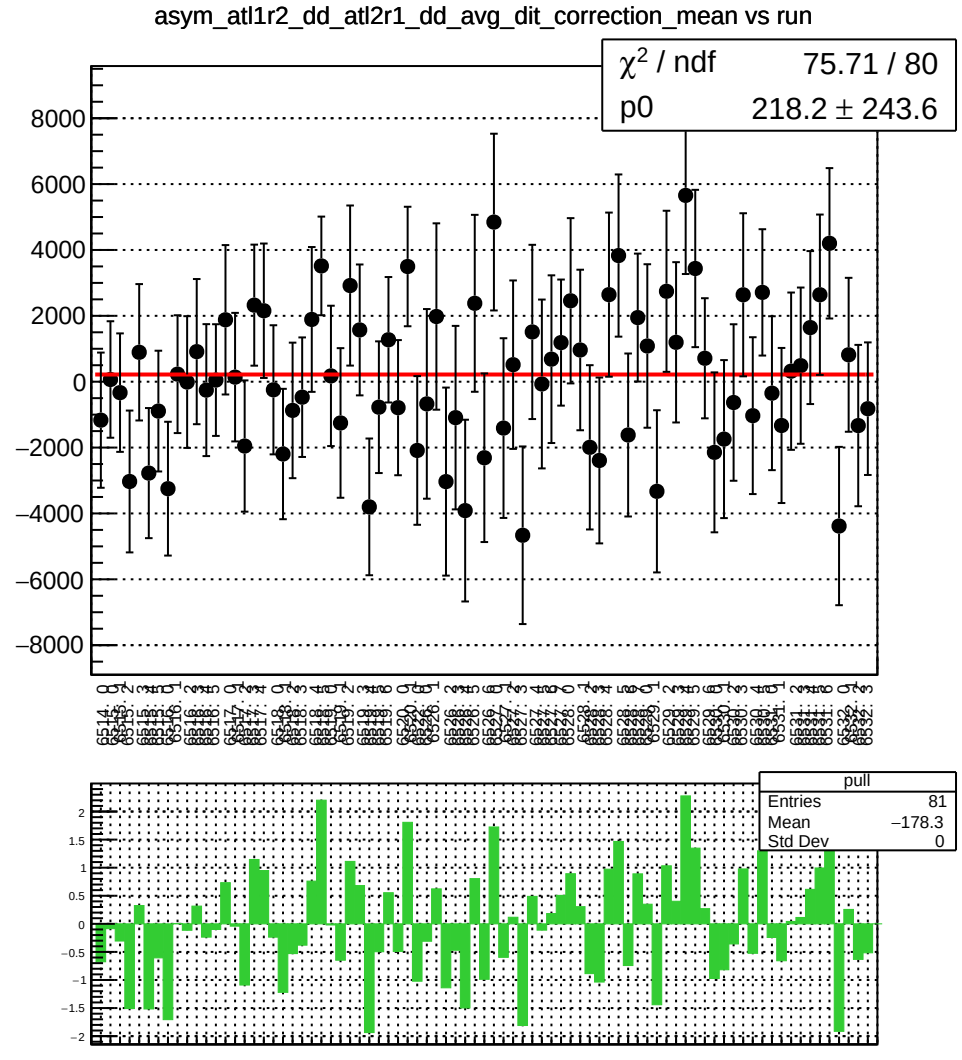

pull1D
Entries 81
Mean −0.01102
Std Dev 0.965

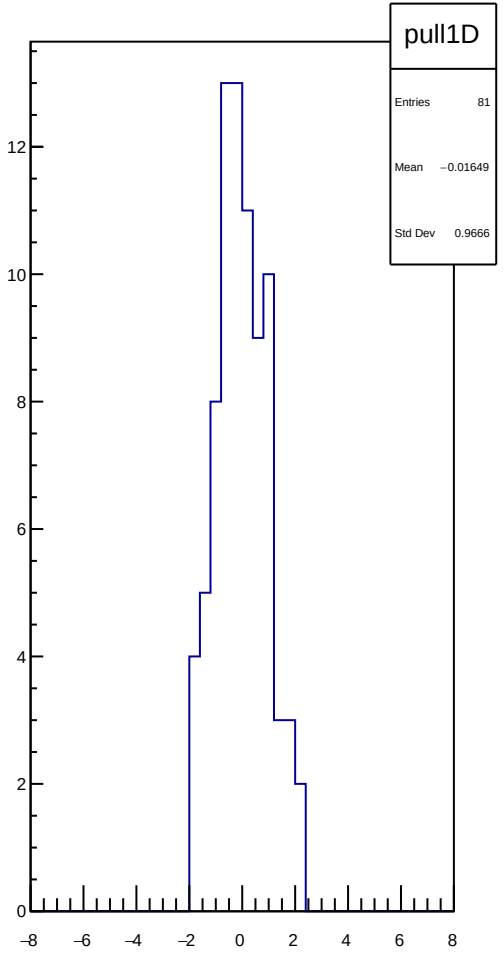

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.673e+04 / 80
p0 211.5 ± 0.1708
280
260
240
220
200
180
160
140

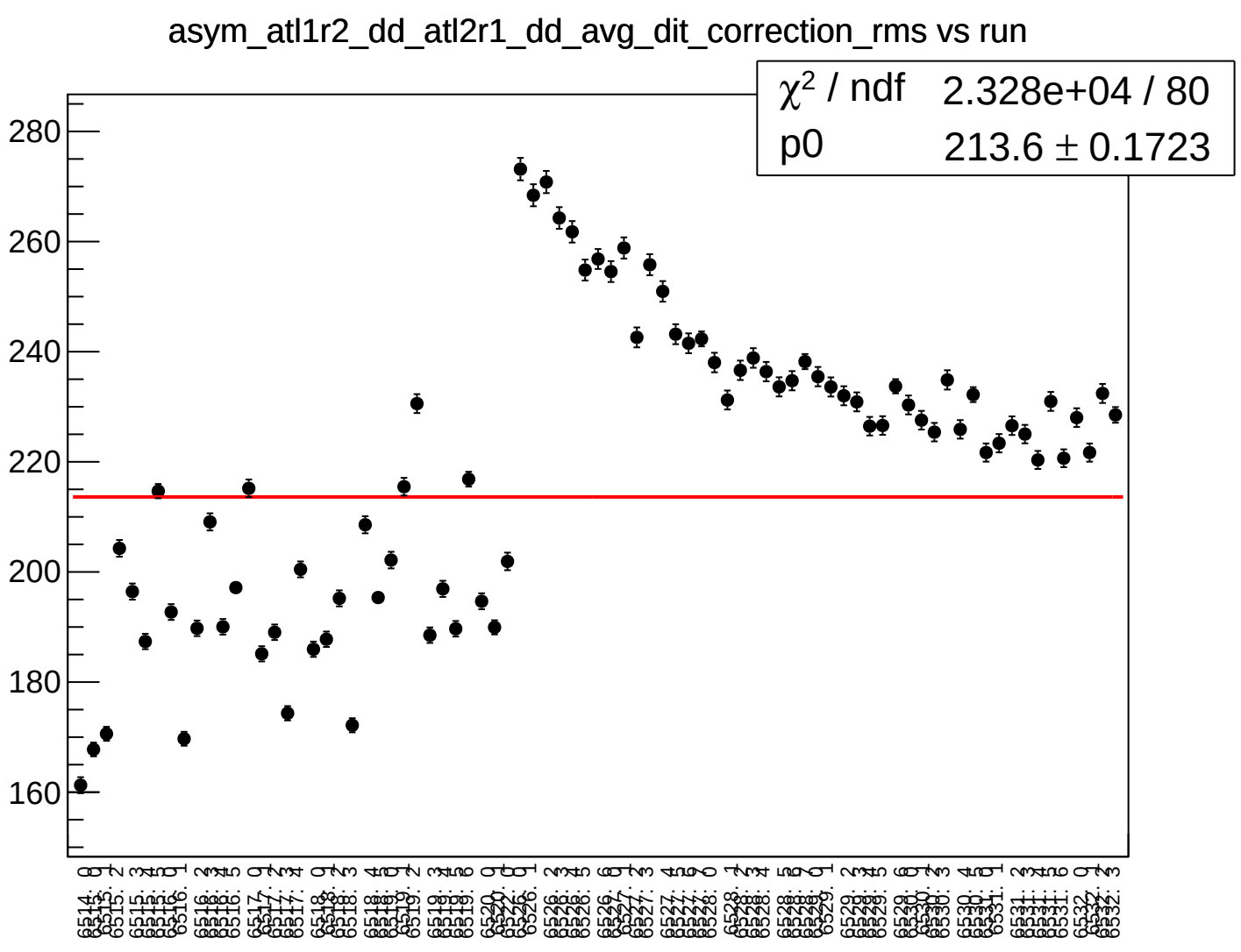

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 76.18 / 80
p0 187.5 ± 1461
60000
40000
20000
0
−20000
−40000
pull
Entries 81
Mean 273.5
Std Dev 0
3
2
1
0
−1
−2

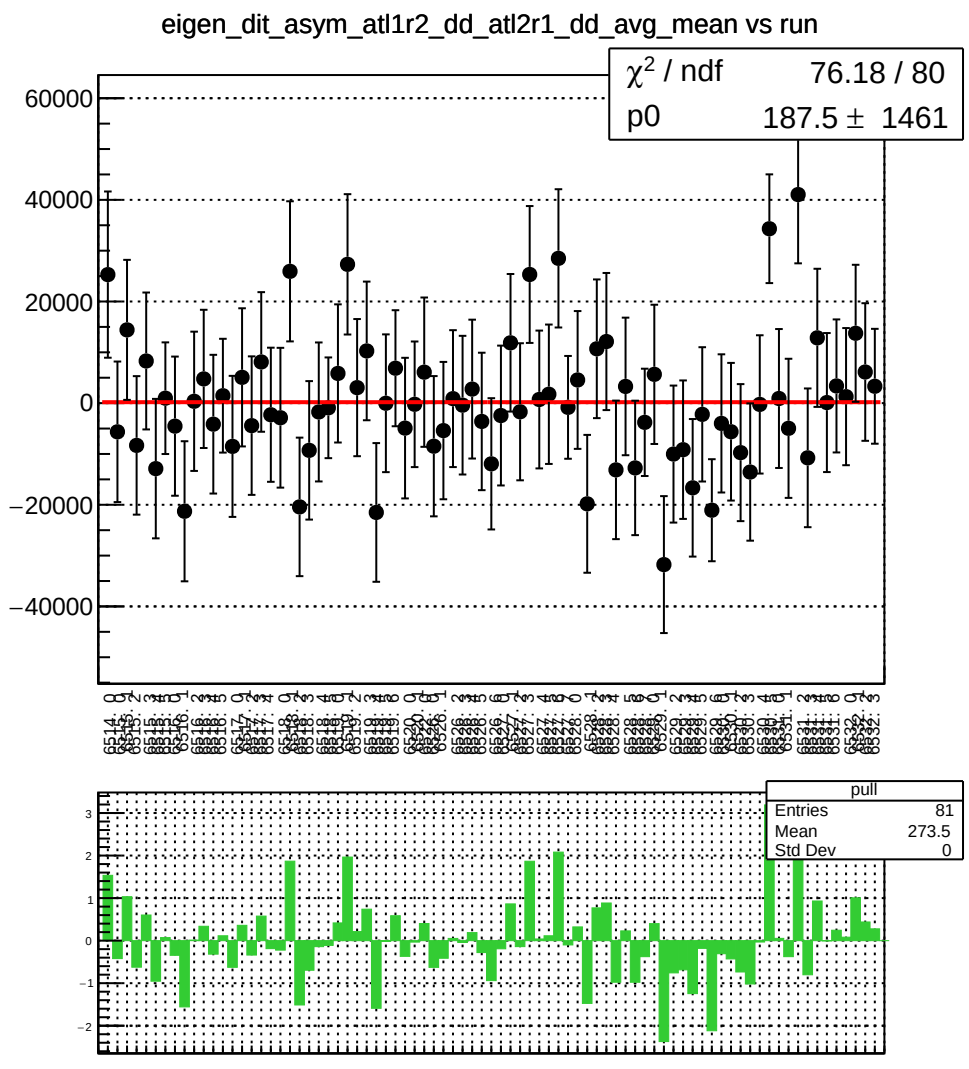

pull1D
Entries 81
Mean 0.002654
Std Dev 0.9698
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

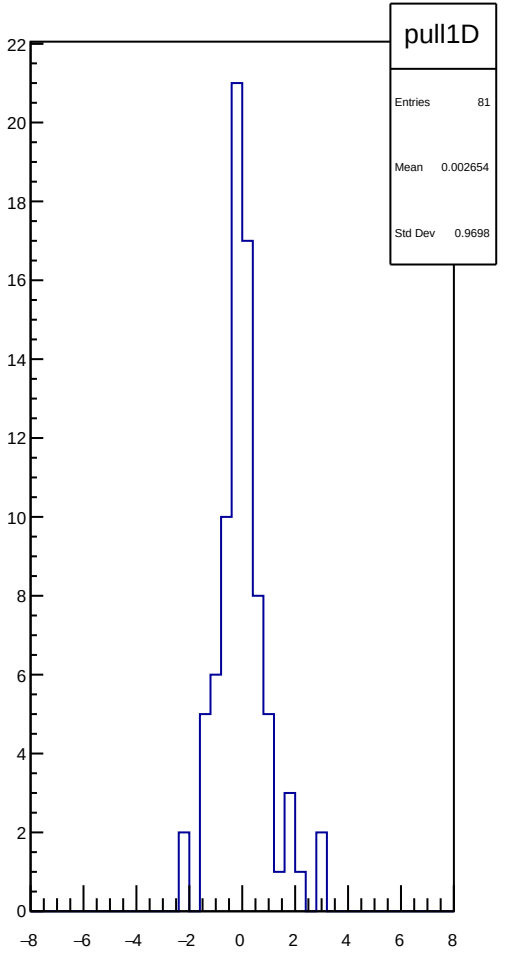

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 122.7 / 80
p0 1291 ± 1.033
1330
1320
1310
1300
1290
1280
1270
1260
1250
1240

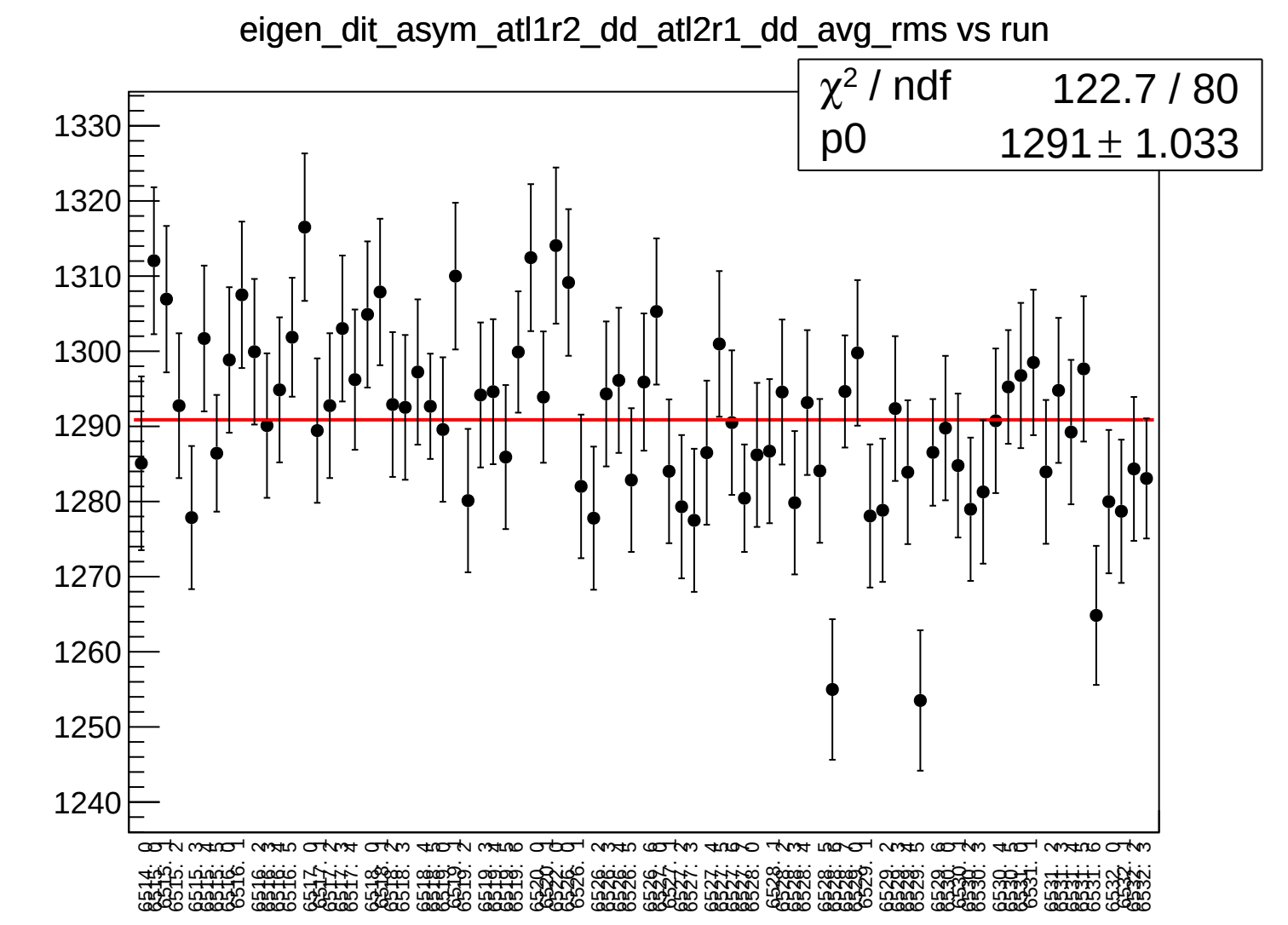

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 75.71 / 80
p0 218.2 ± 243.6
pull
Entries 81
Mean −178.3
Std Dev 0

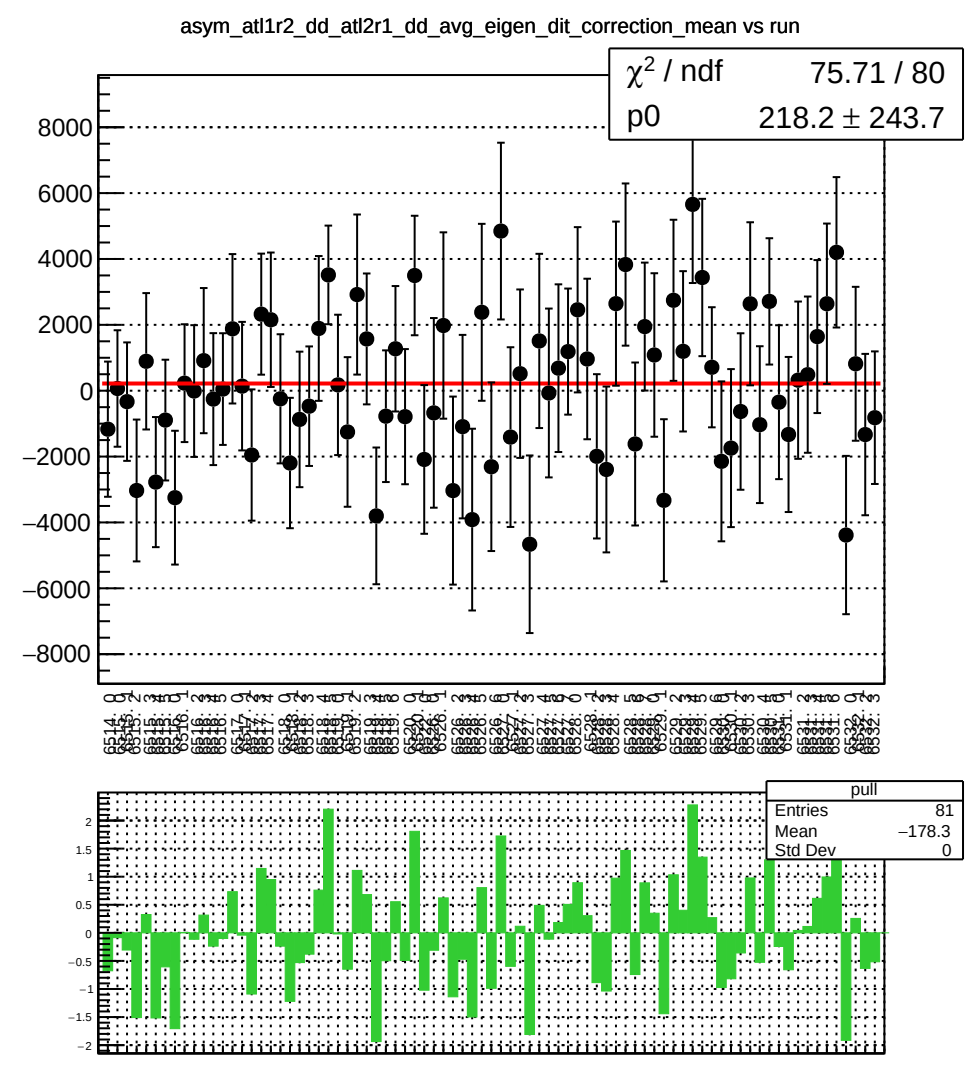

pull1D
Entries 81
Mean −0.01649
Std Dev 0.9666

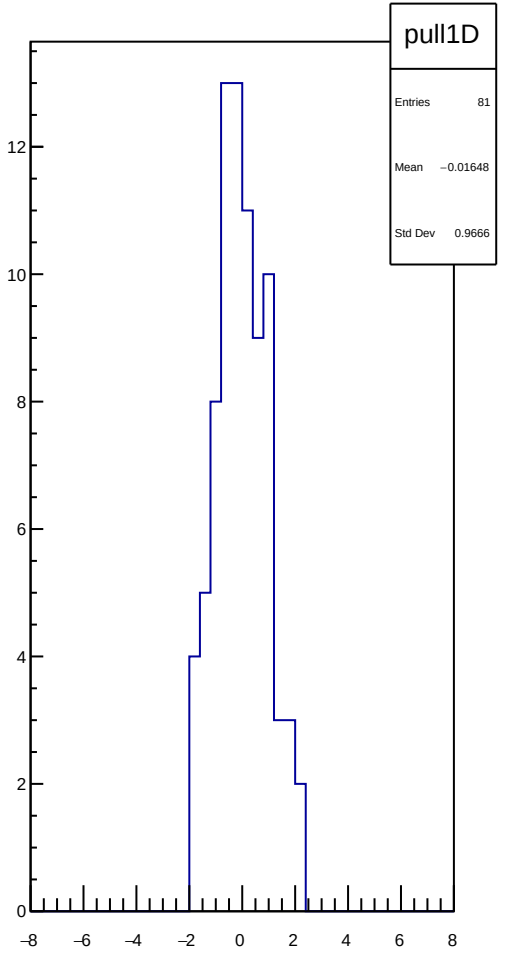

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 2.328e+04 / 80
p0 213.6 ± 0.1723
280
260
240
220
200
180
160

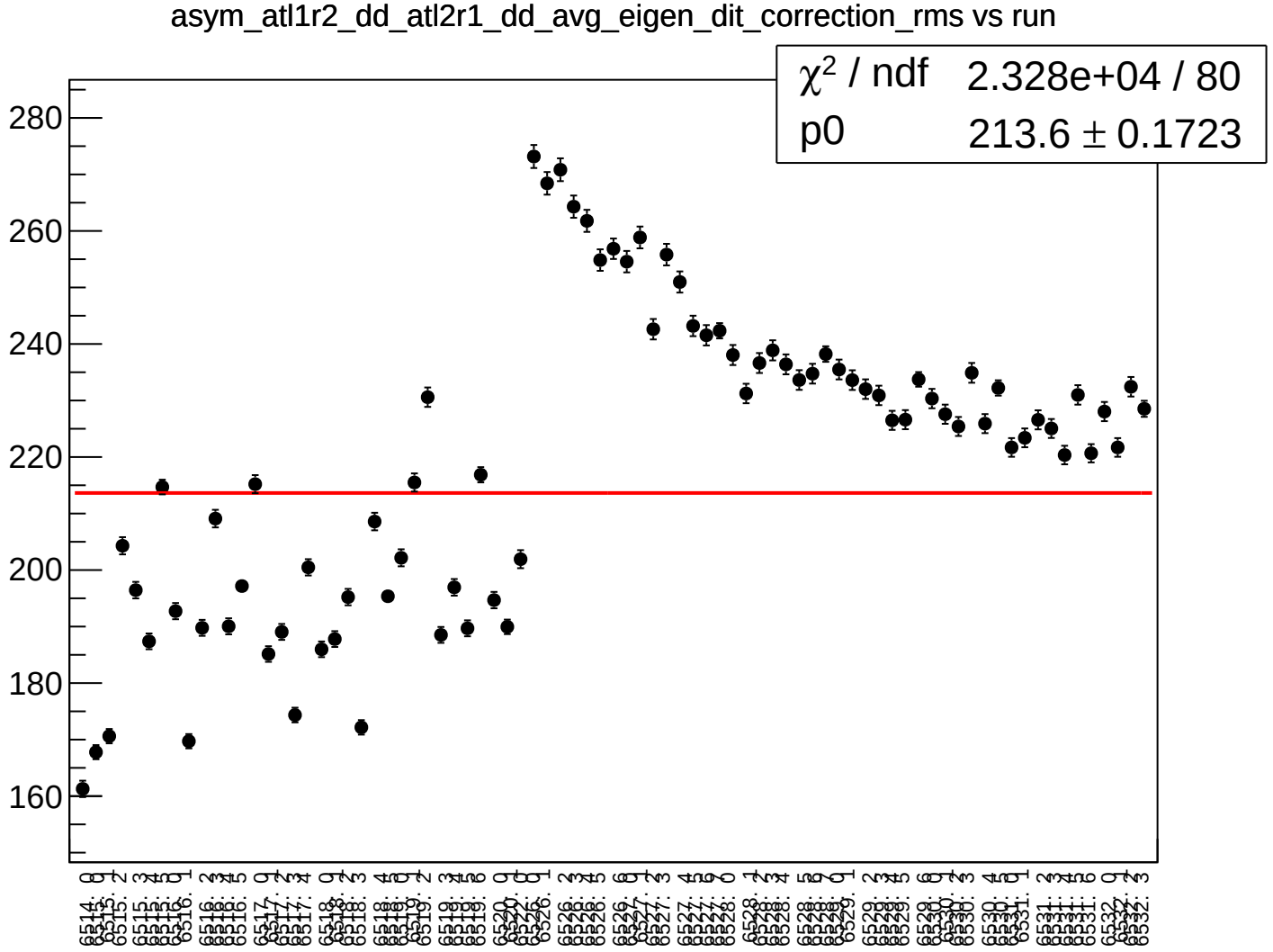

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 76.18 / 80
p0 187.5 ± 1461
60000
40000
20000
0
−20000
−40000
pull
Entries 81
Mean 273.5
Std Dev 0
3
2
1
0
−1
−2

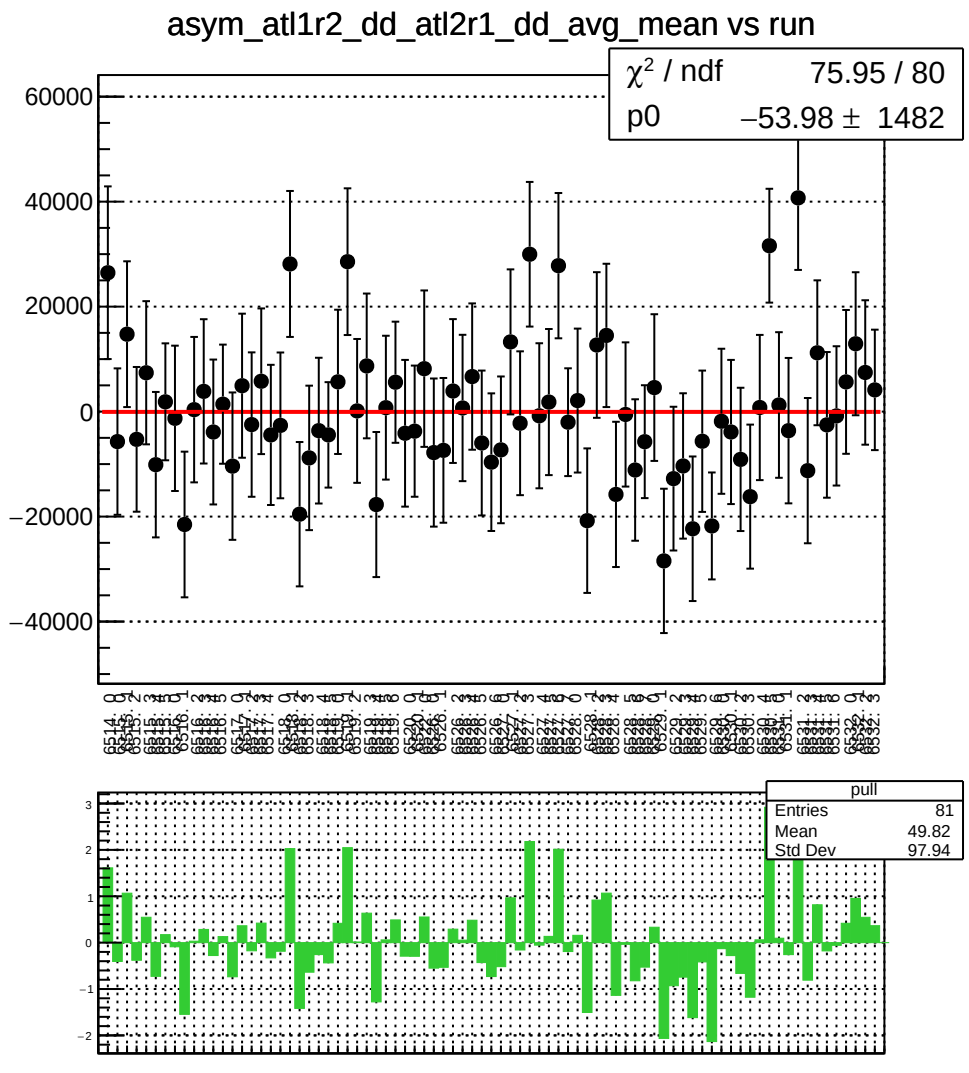

pull1D
Entries 81
Mean 0.002654
Std Dev 0.9698
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

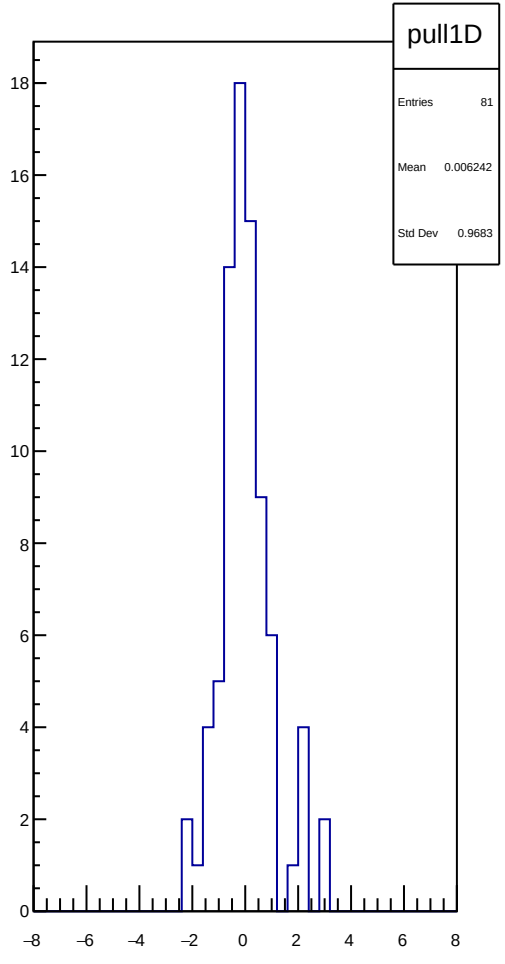

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 122.7 / 80
p0 1291 ± 1.033
1330
1320
1310
1300
1290
1280
1270
1260
1250
1240

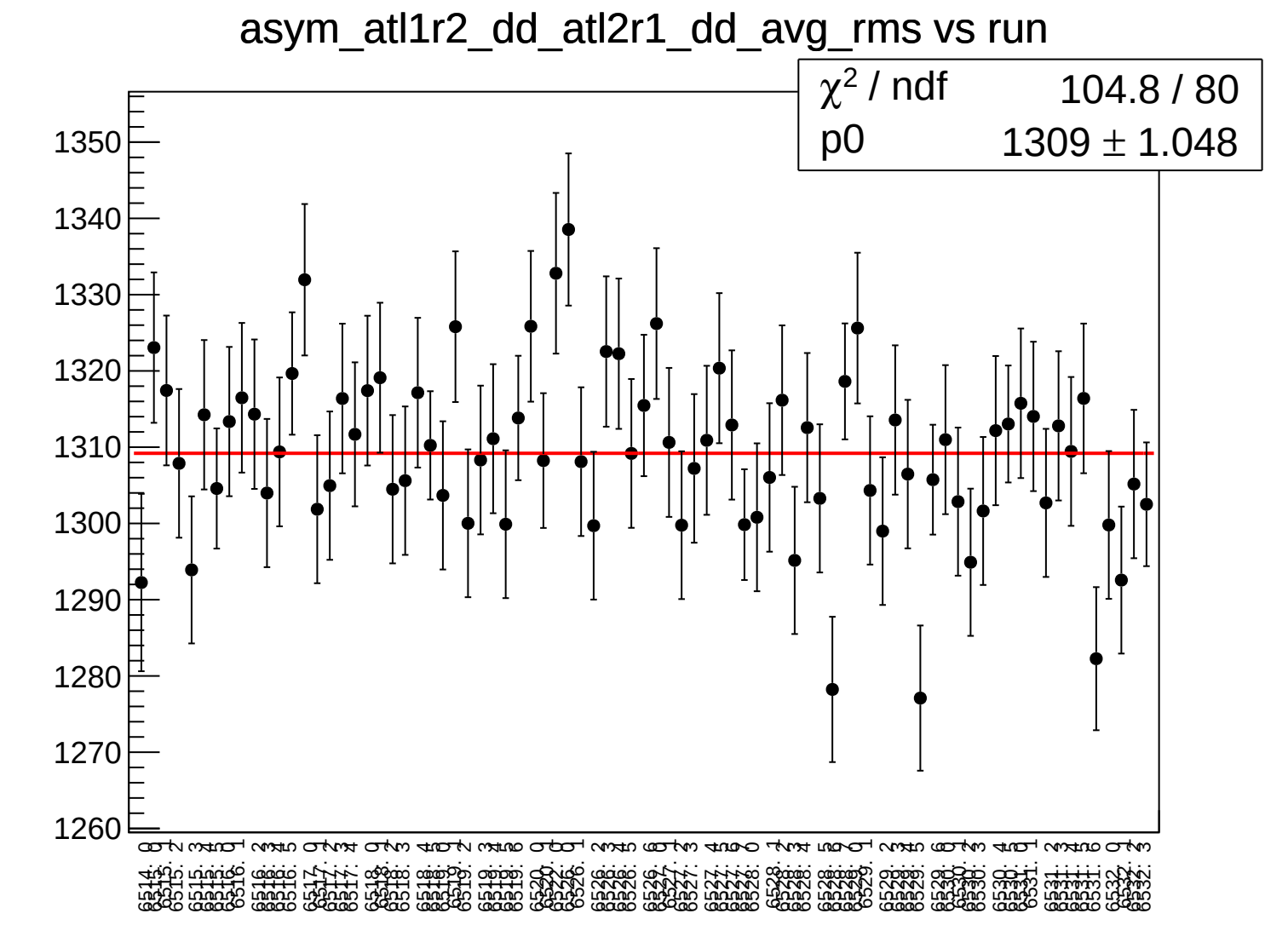

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 75.71 / 80
p0 218.2 ± 243.7
pull
Entries 81
Mean −178.3
Std Dev 0

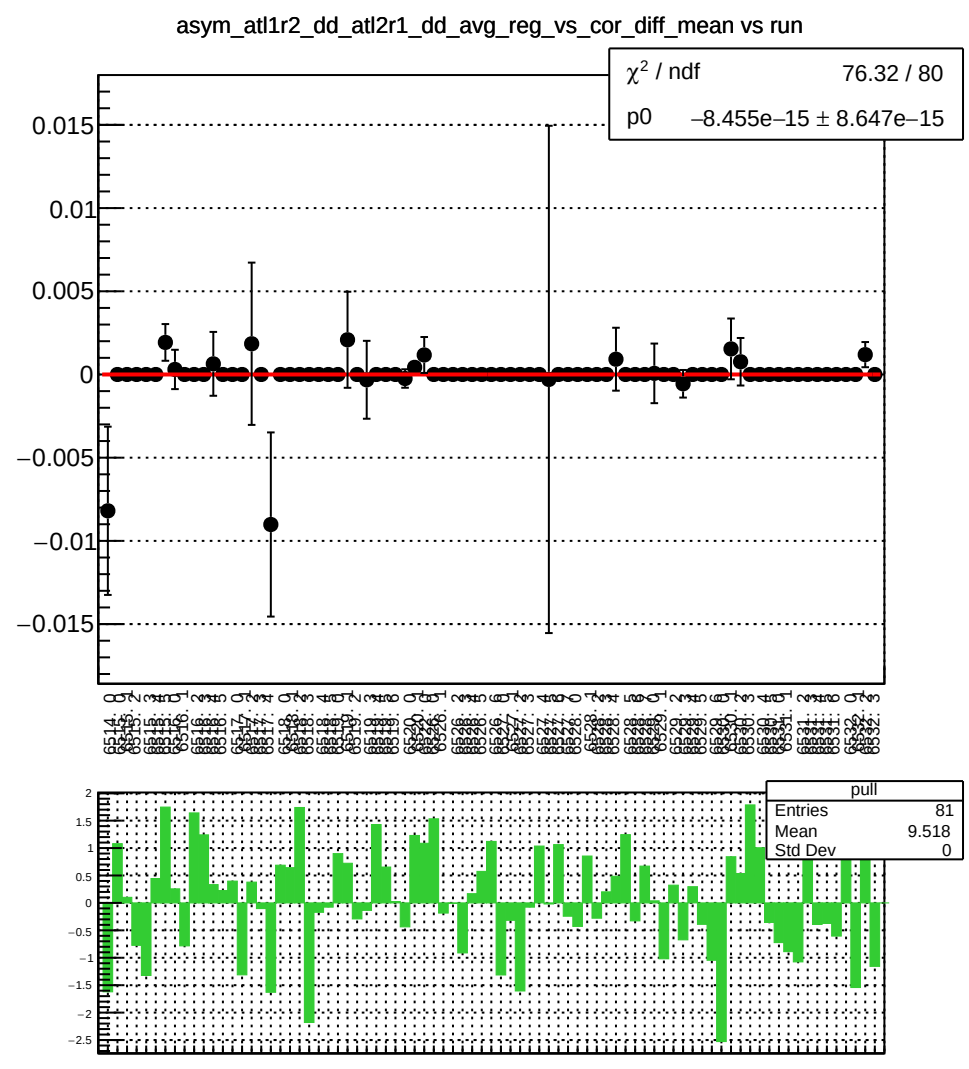

pull1D
Entries 81
Mean −0.01648
Std Dev 0.9666

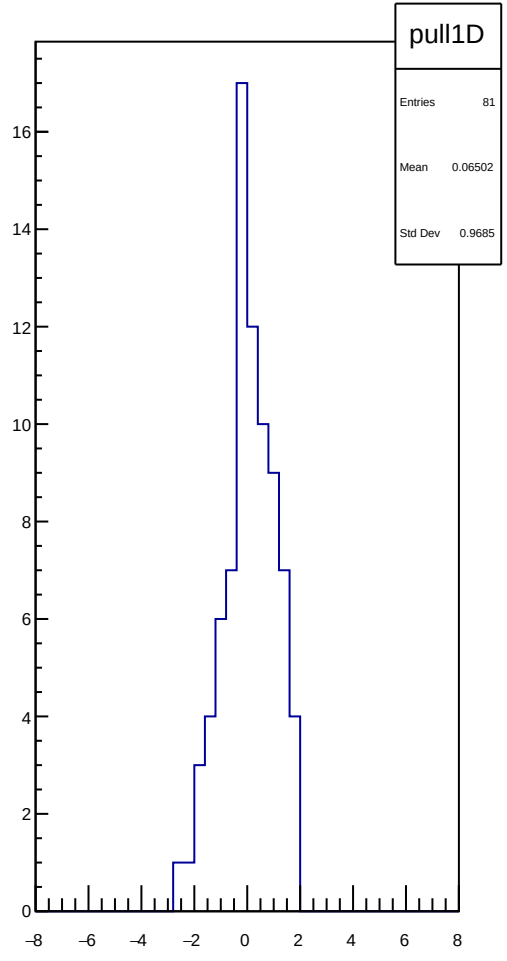

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.328e+04 / 80
p0 213.6 ± 0.1723
280
260
240
220
200
180
160

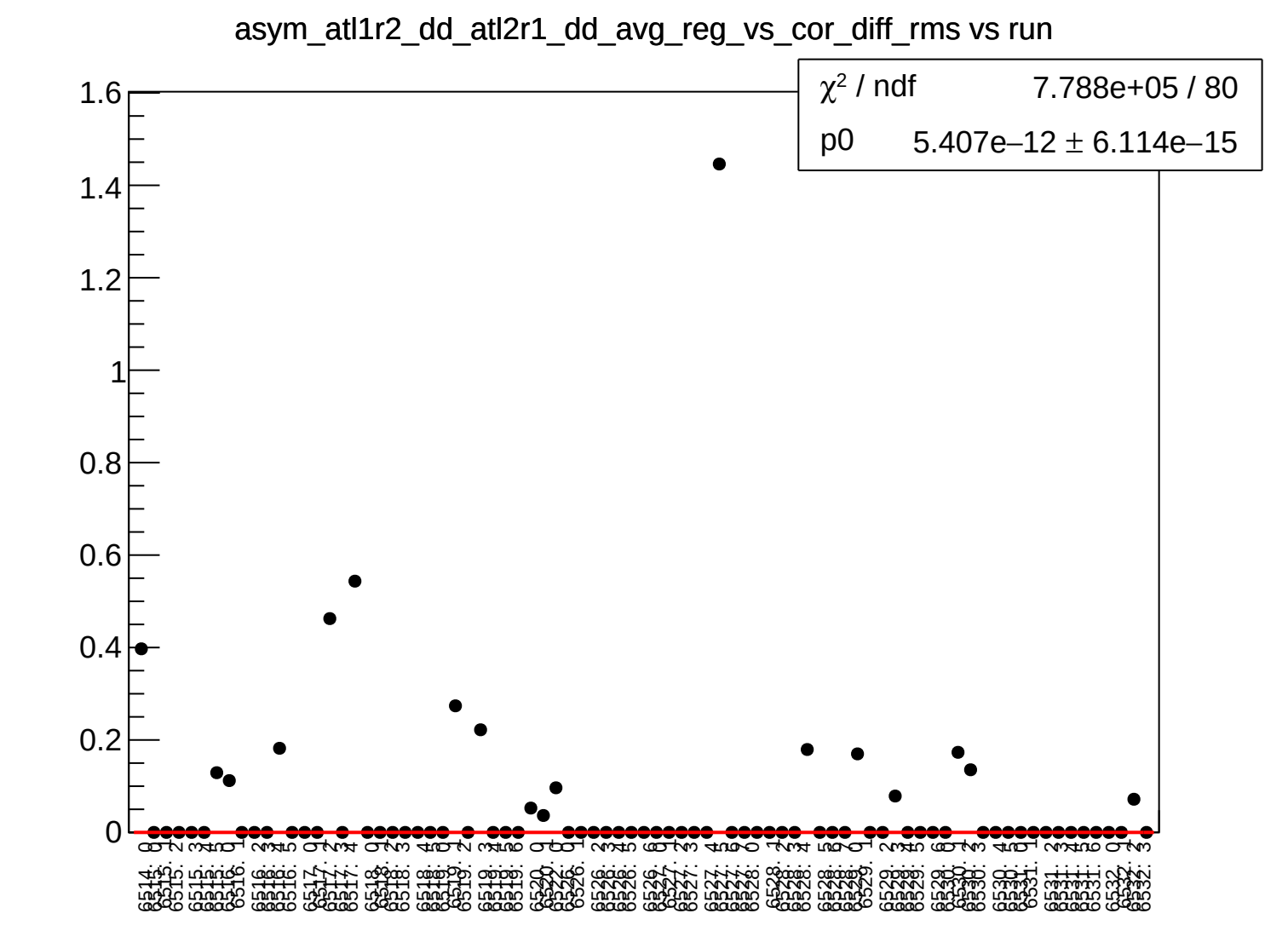

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 75.95 / 80
p0 −53.98 ± 1482
60000
40000
20000
0
−20000
−40000
pull
Entries 81
Mean 49.82
Std Dev 97.94
3
2
1
0
−1
−2

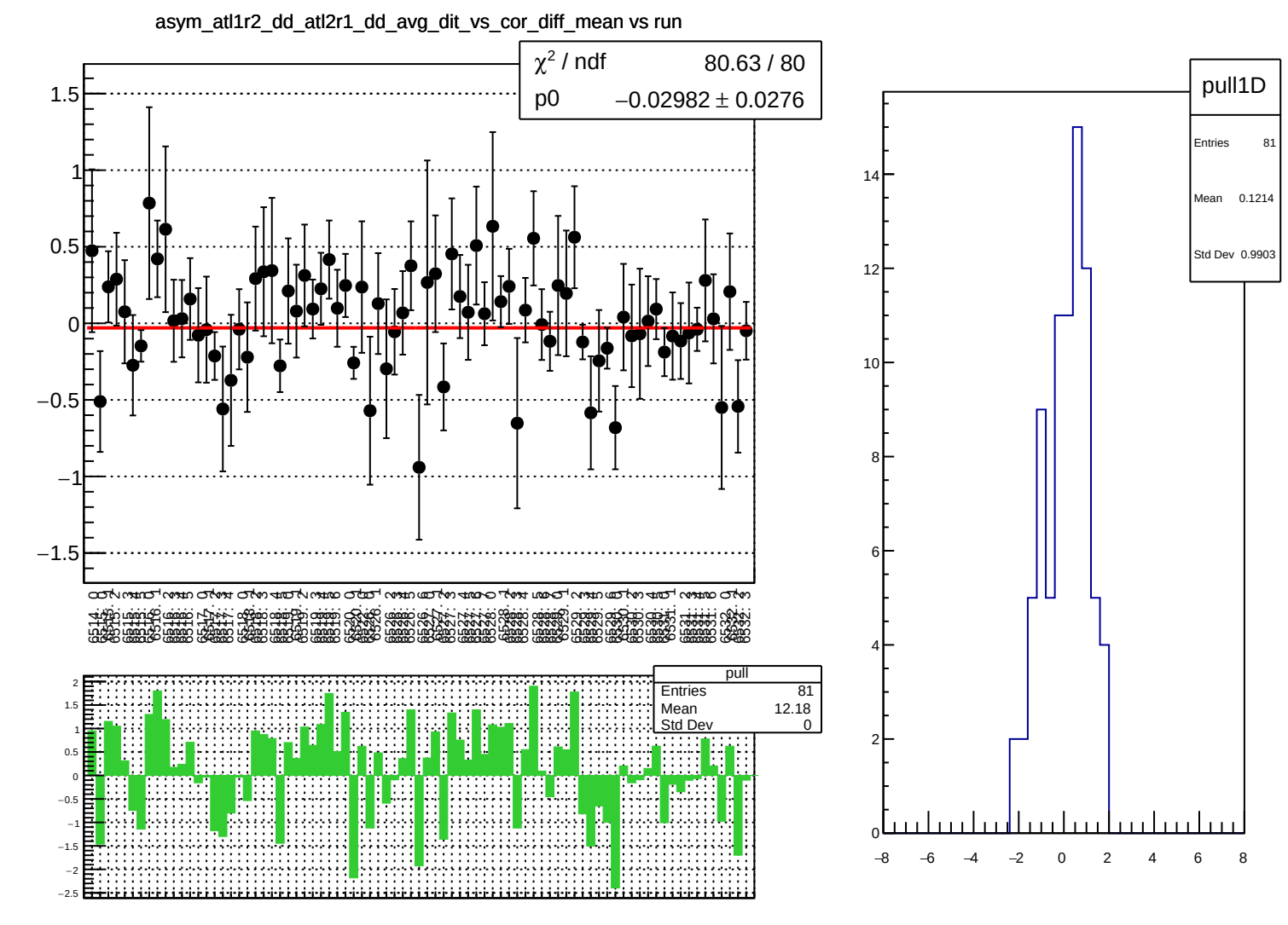

pull1D
Entries 81
Mean 0.006242
Std Dev 0.9683
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

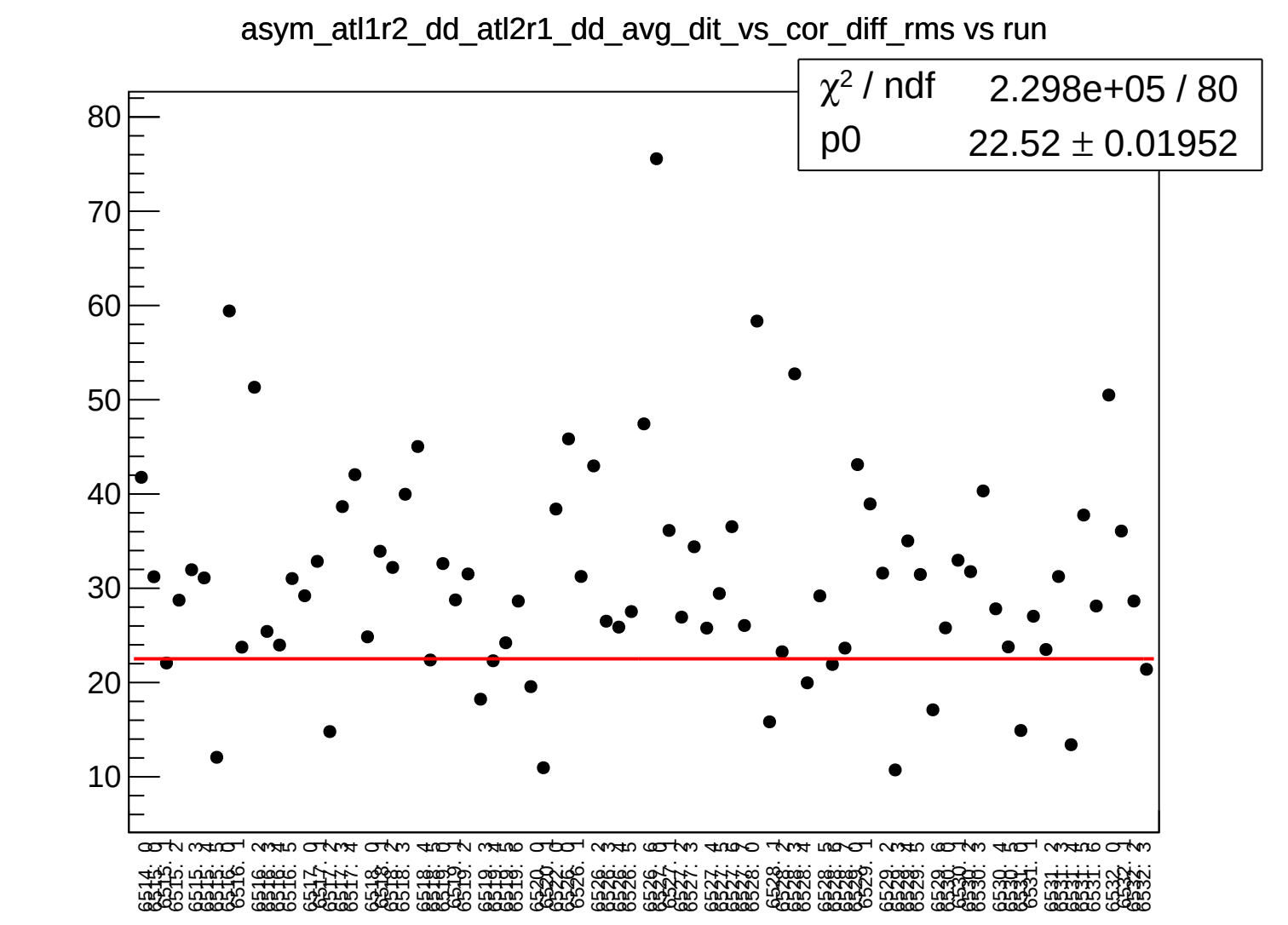

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 104.8 / 80
p0 1309 ± 1.048
1350
1340
1330
1320
1310
1300
1290
1280
1270
1260

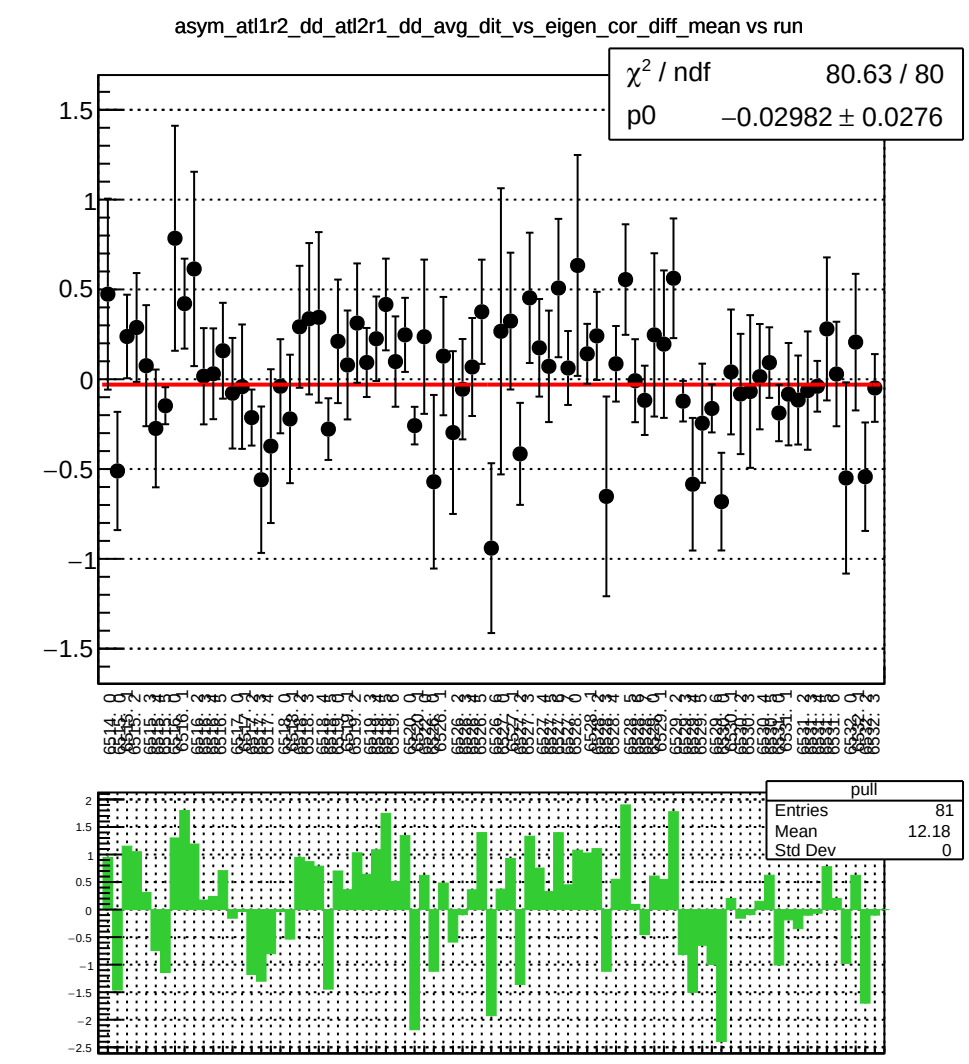

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 76.32 / 80
p0 −8.455e−15 ± 8.647e−15
pull
Entries 81
Mean 9.518
Std Dev 0

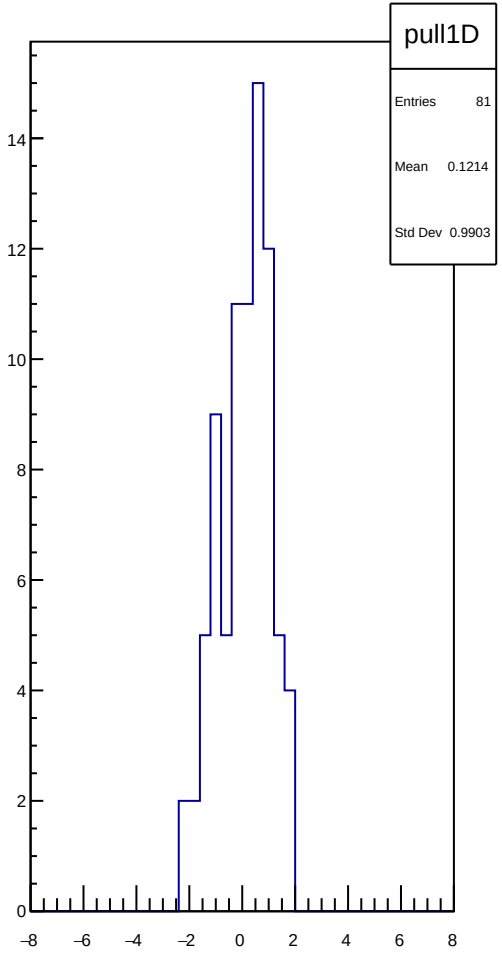

pull1D
Entries 81
Mean 0.06502
Std Dev 0.9685

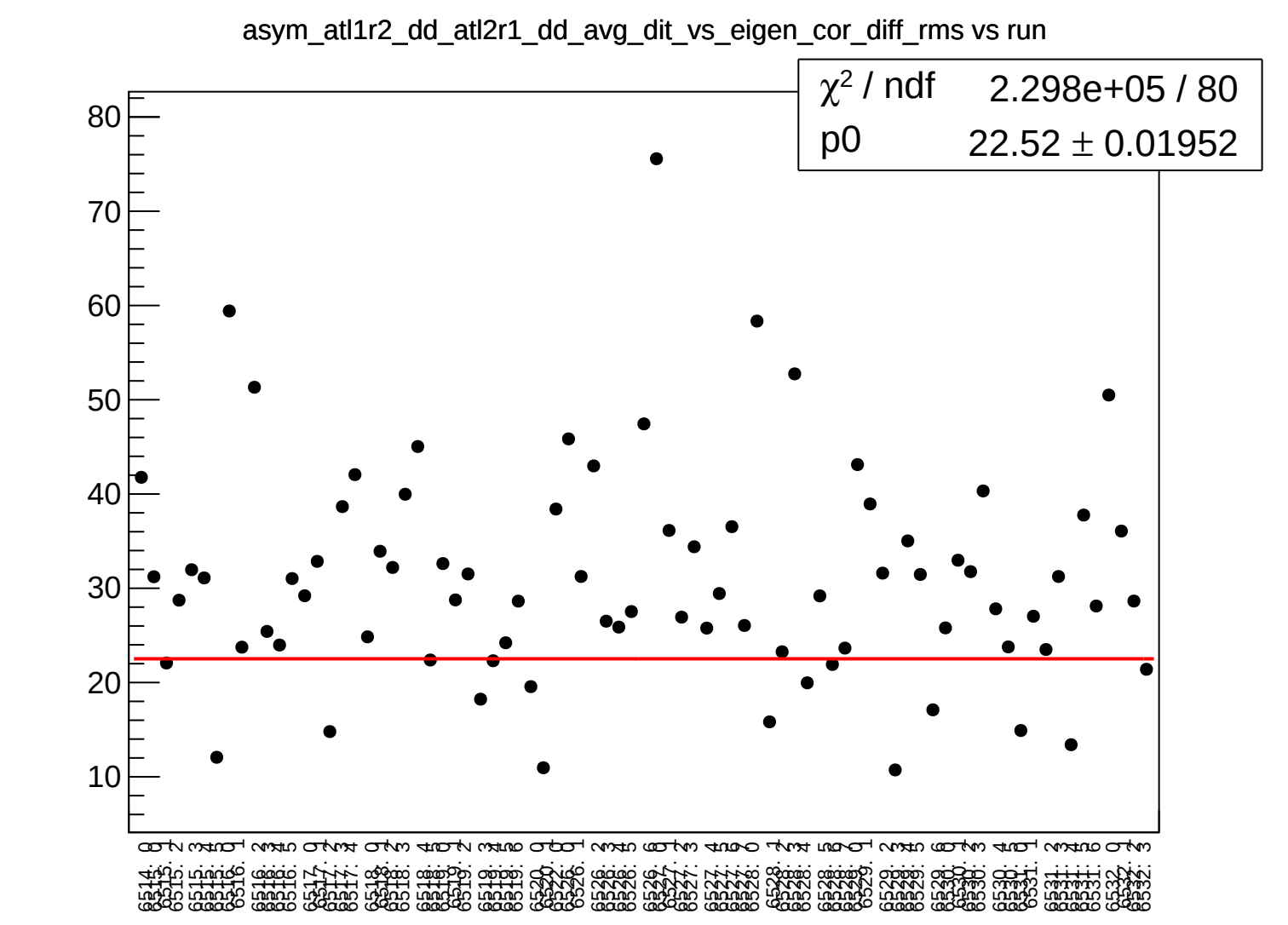

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 7.788e+05 / 80
p0 5.407e−12 ± 6.114e−15
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

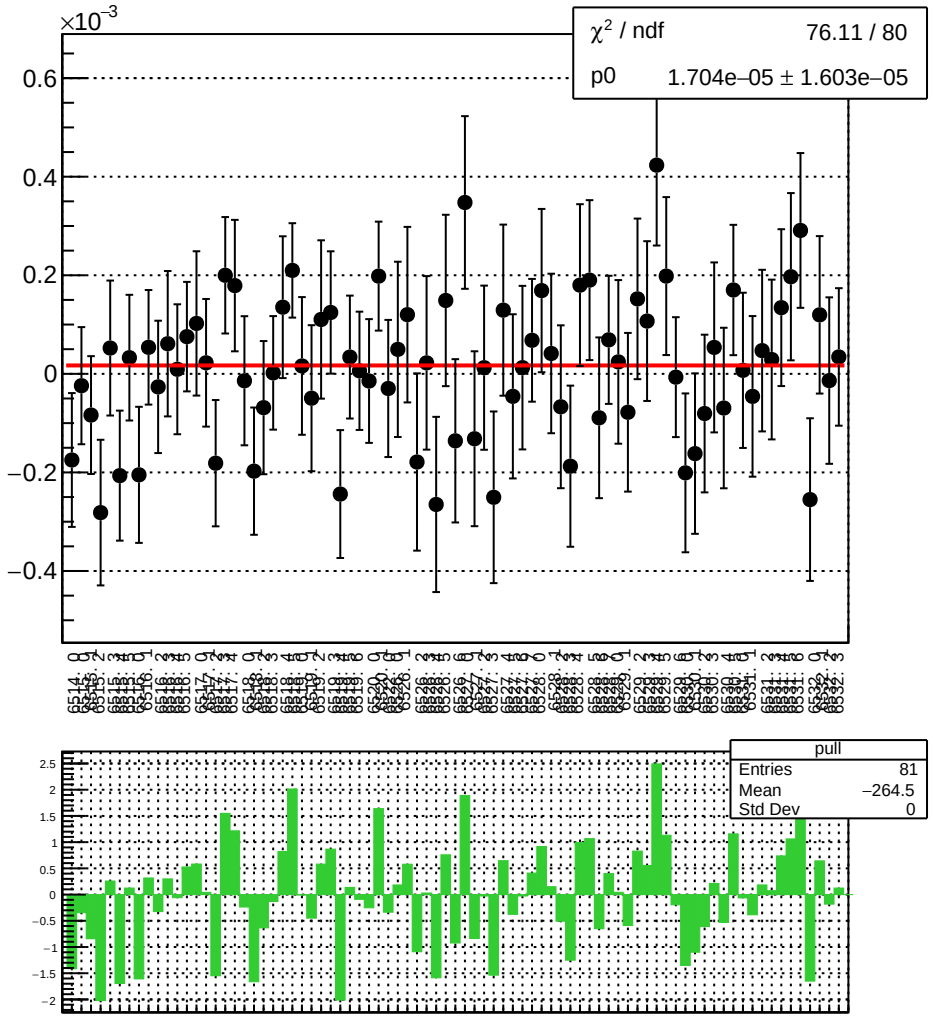

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 80.63 / 80
p0 −0.02982 ± 0.0276
pull
Entries 81
Mean 12.18
Std Dev 0
pull1D
Entries 81
Mean 0.1214
Std Dev 0.9903

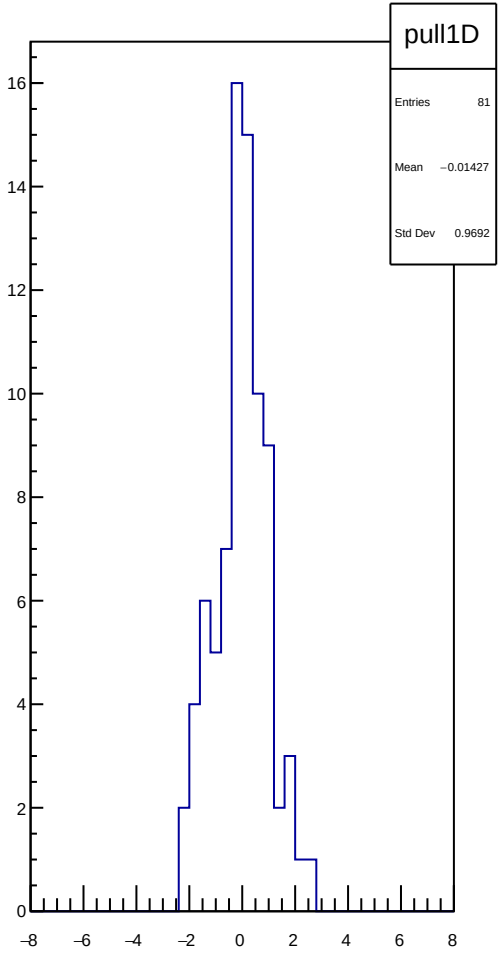

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.298e+05 / 80
p0 22.52 ± 0.01952
80
70
60
50
40
30
20
10

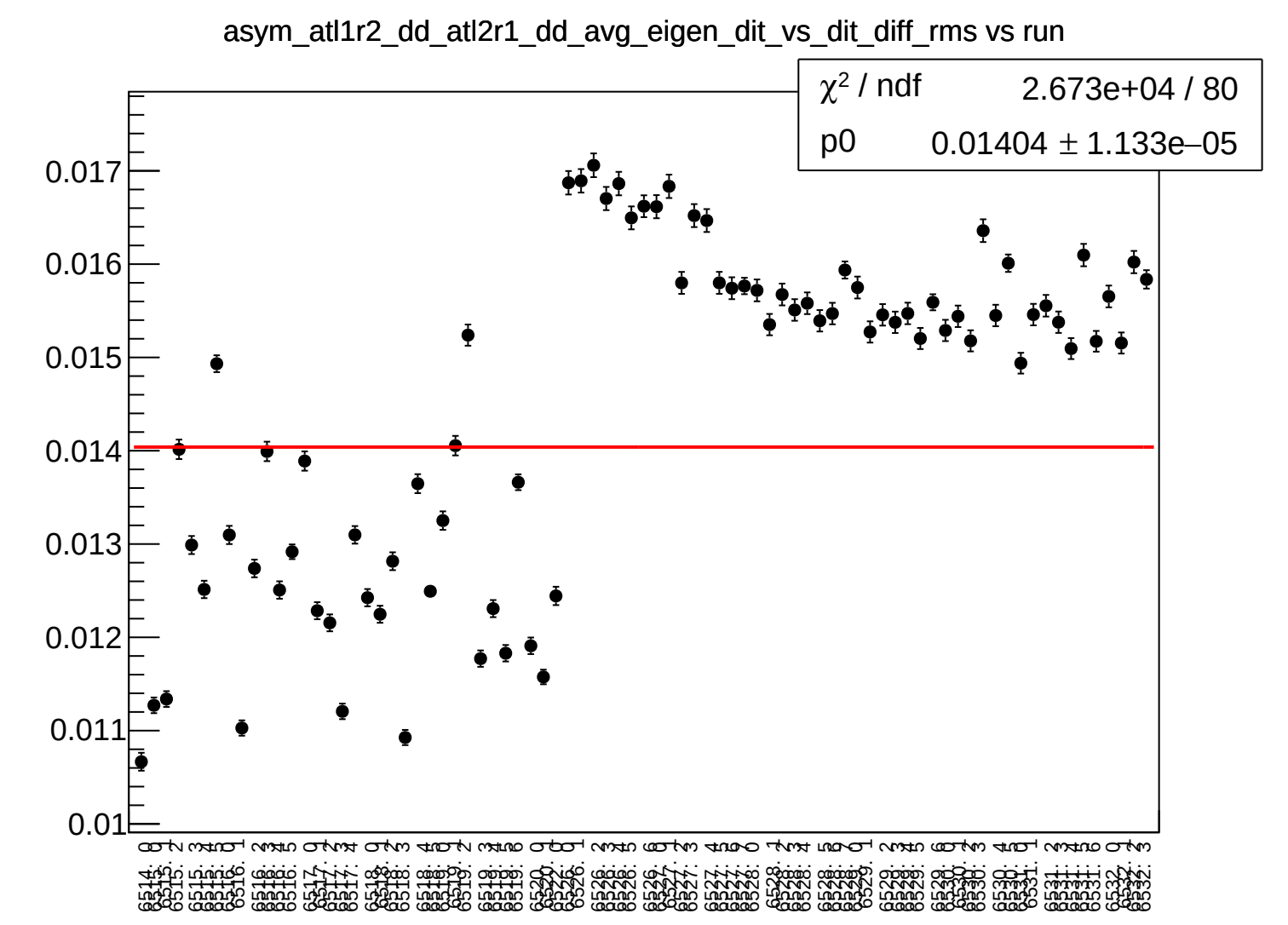

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.63 / 80
p0 −0.02982 ± 0.0276
pull
Entries 81
Mean 12.18
Std Dev 0

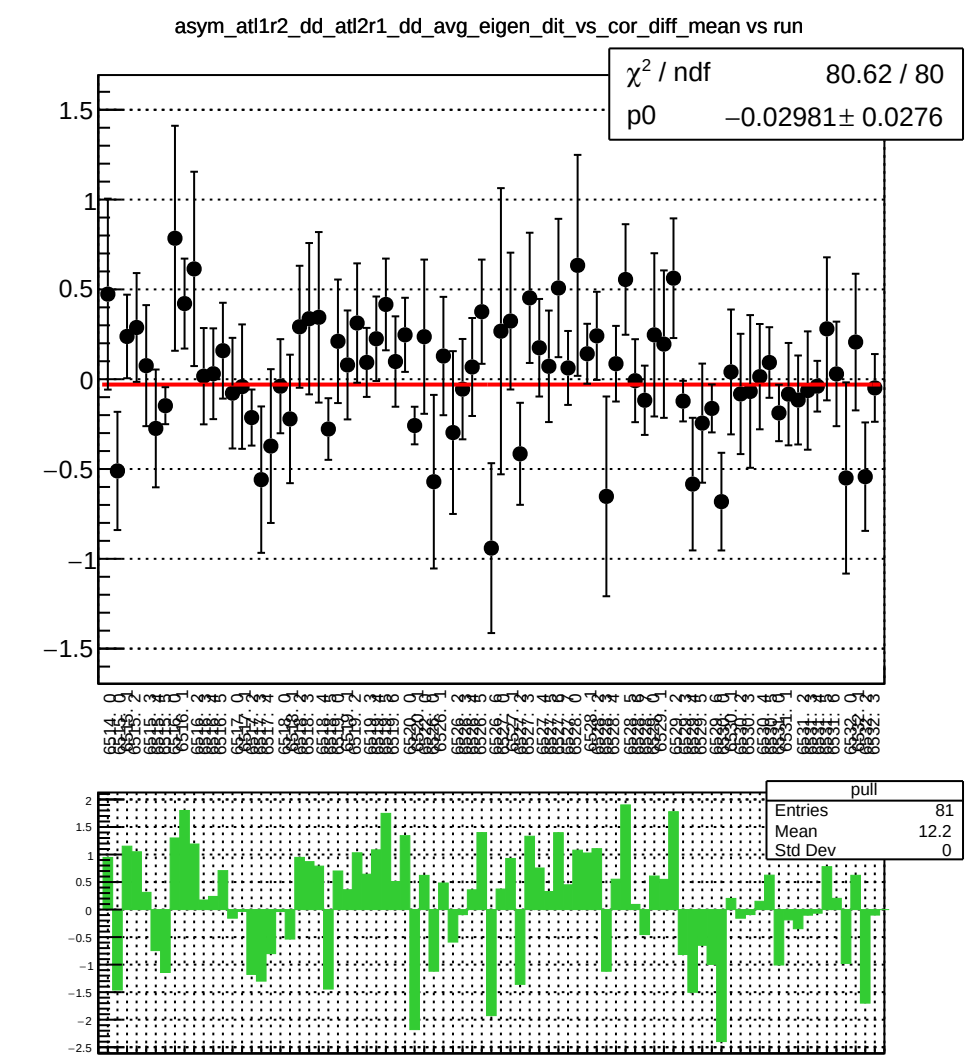

pull1D
Entries 81
Mean 0.1214
Std Dev 0.9903

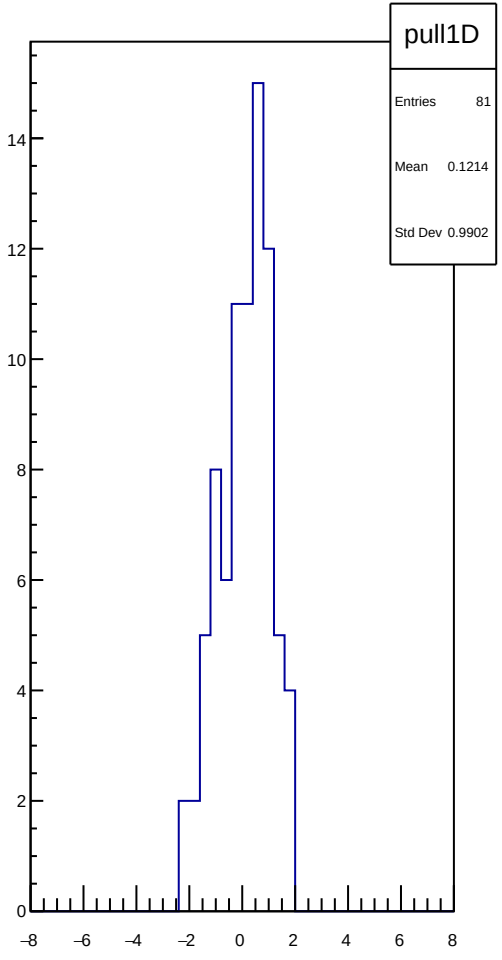

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.298e+05 / 80
p0 22.52 ± 0.01952
80
70
60
50
40
30
20
10

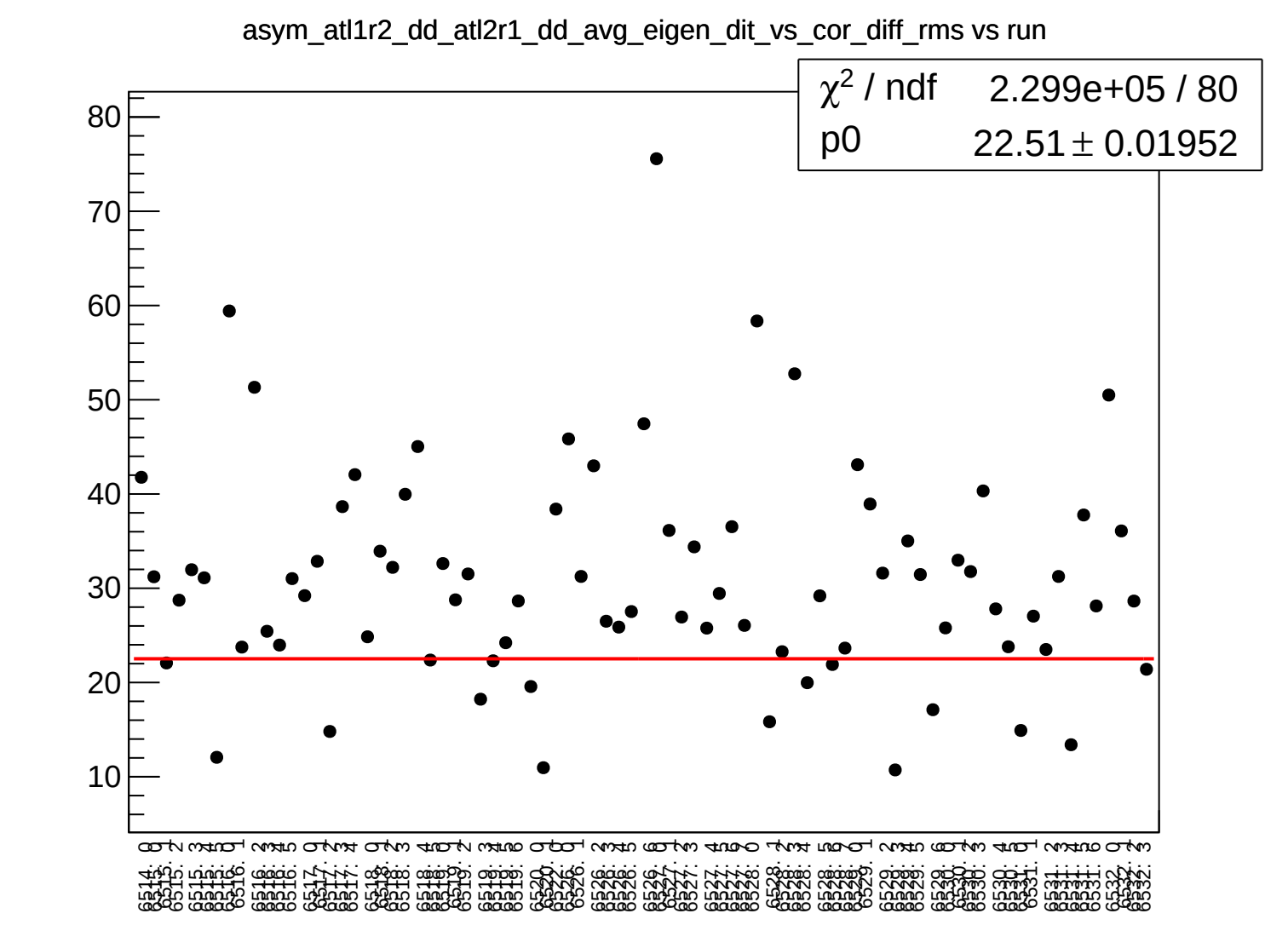

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 76.11 / 80
p0 1.704e−05 ± 1.603e−05
pull
Entries 81
Mean −264.5
Std Dev 0

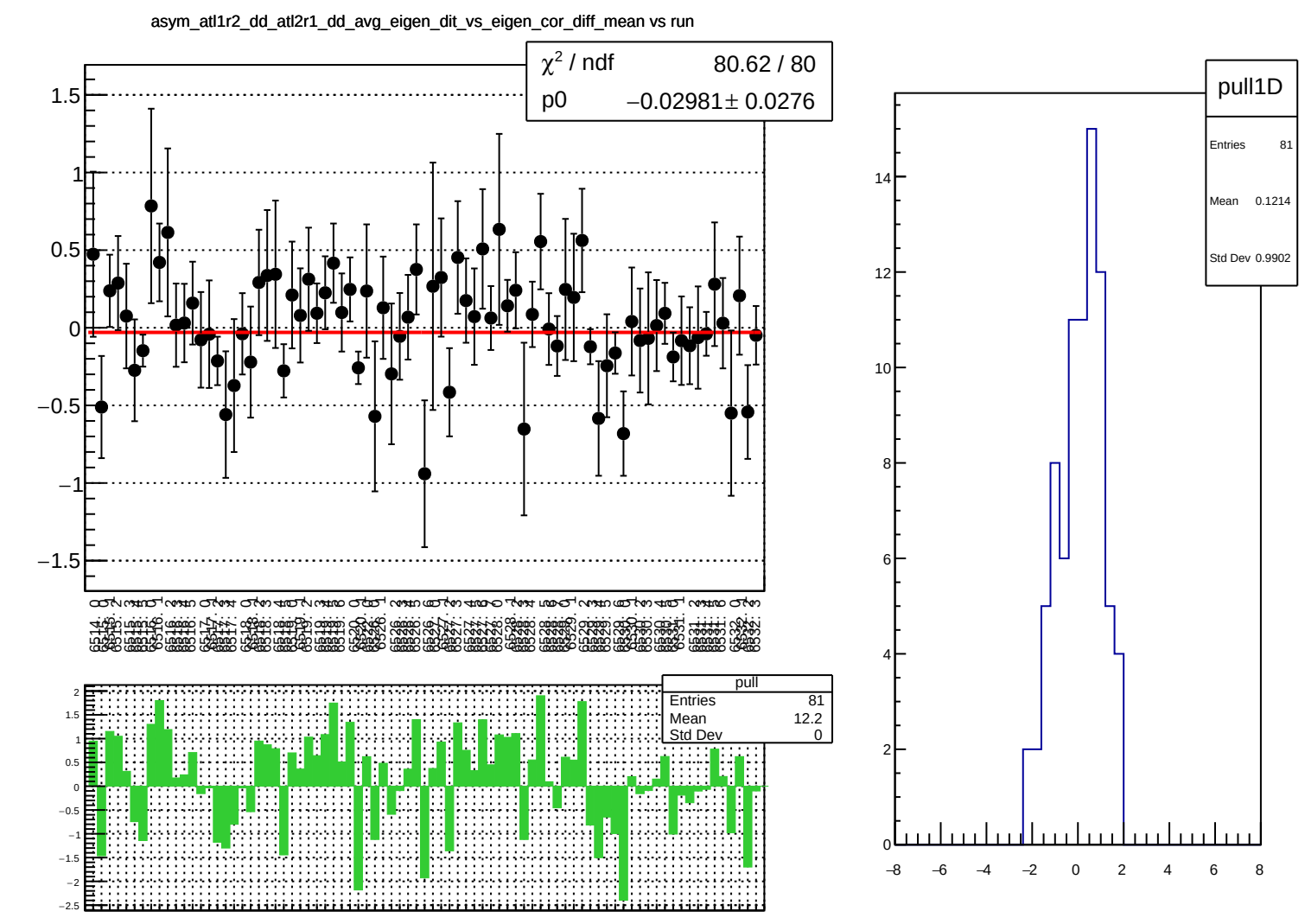

pull1D
Entries 81
Mean −0.01427
Std Dev 0.9692

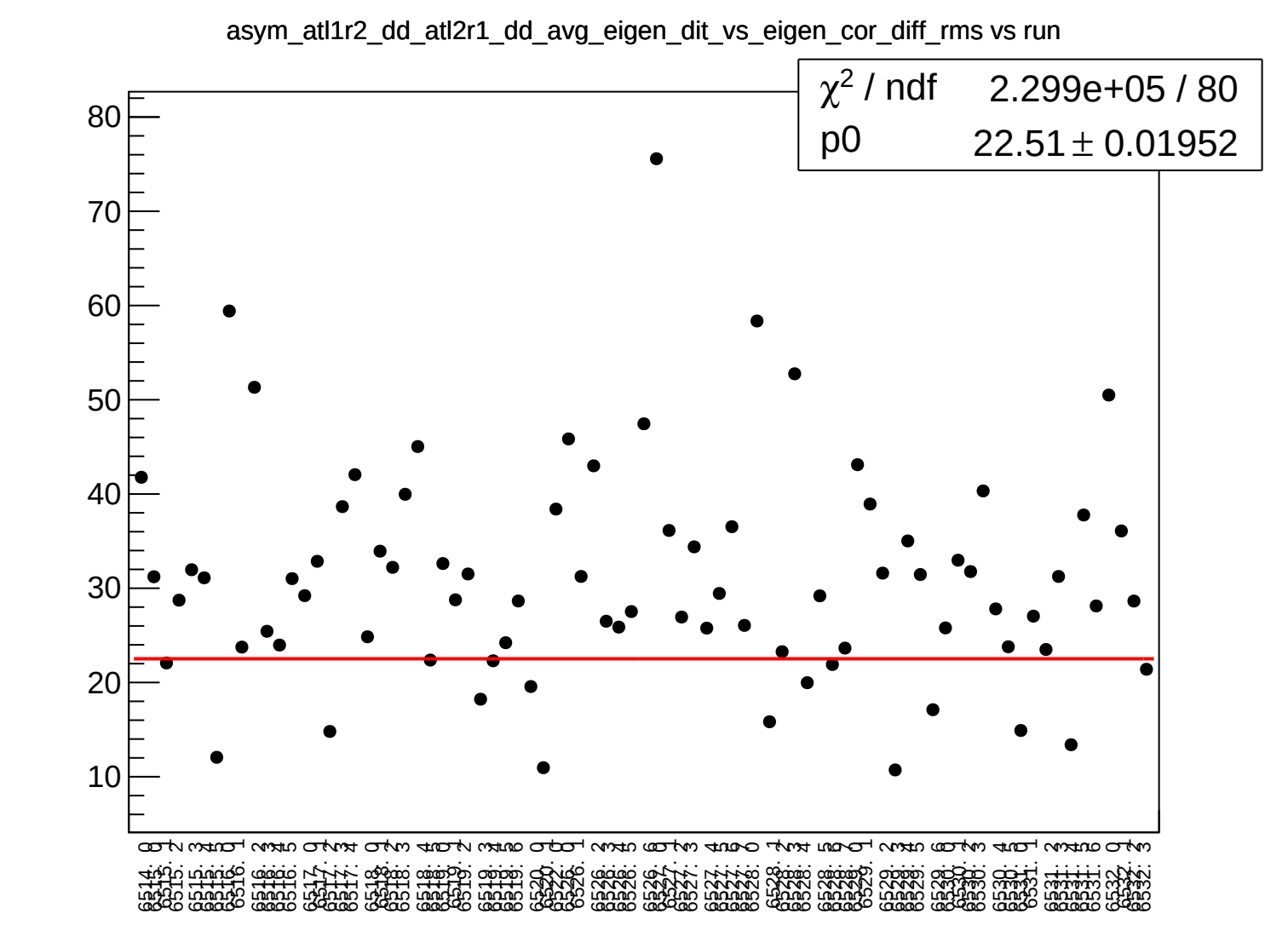

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.673e+04 / 80
p0 0.01404 ± 1.133e−05
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01

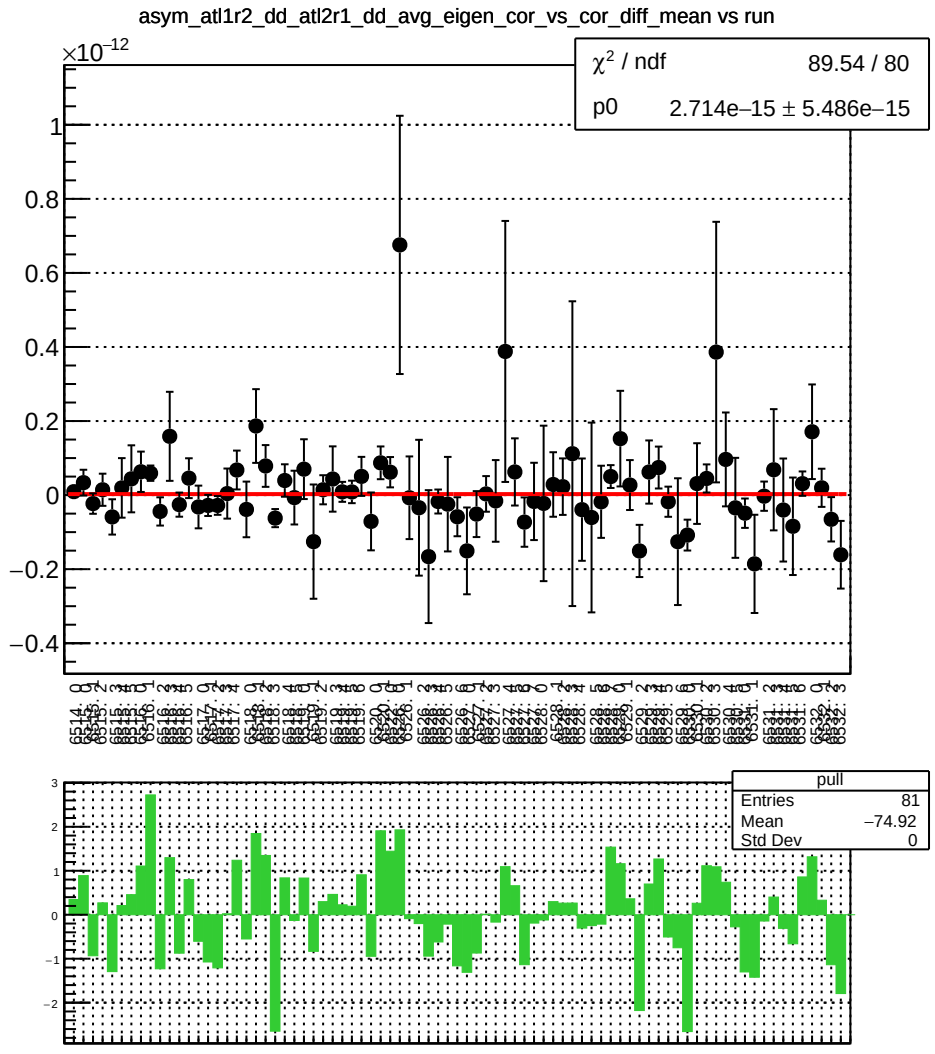

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.62 / 80
p0 −0.02981 ± 0.0276
pull
Entries 81
Mean 12.2
Std Dev 0

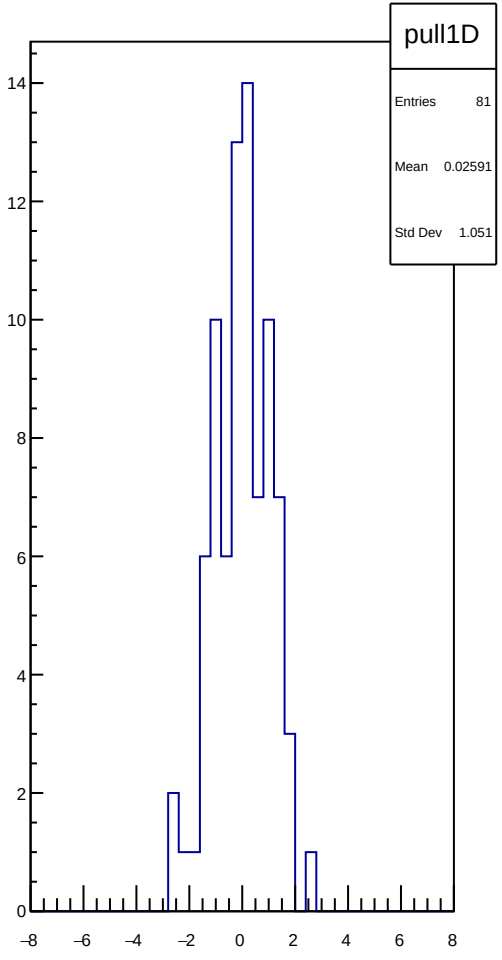

pull1D
Entries 81
Mean 0.1214
Std Dev 0.9902

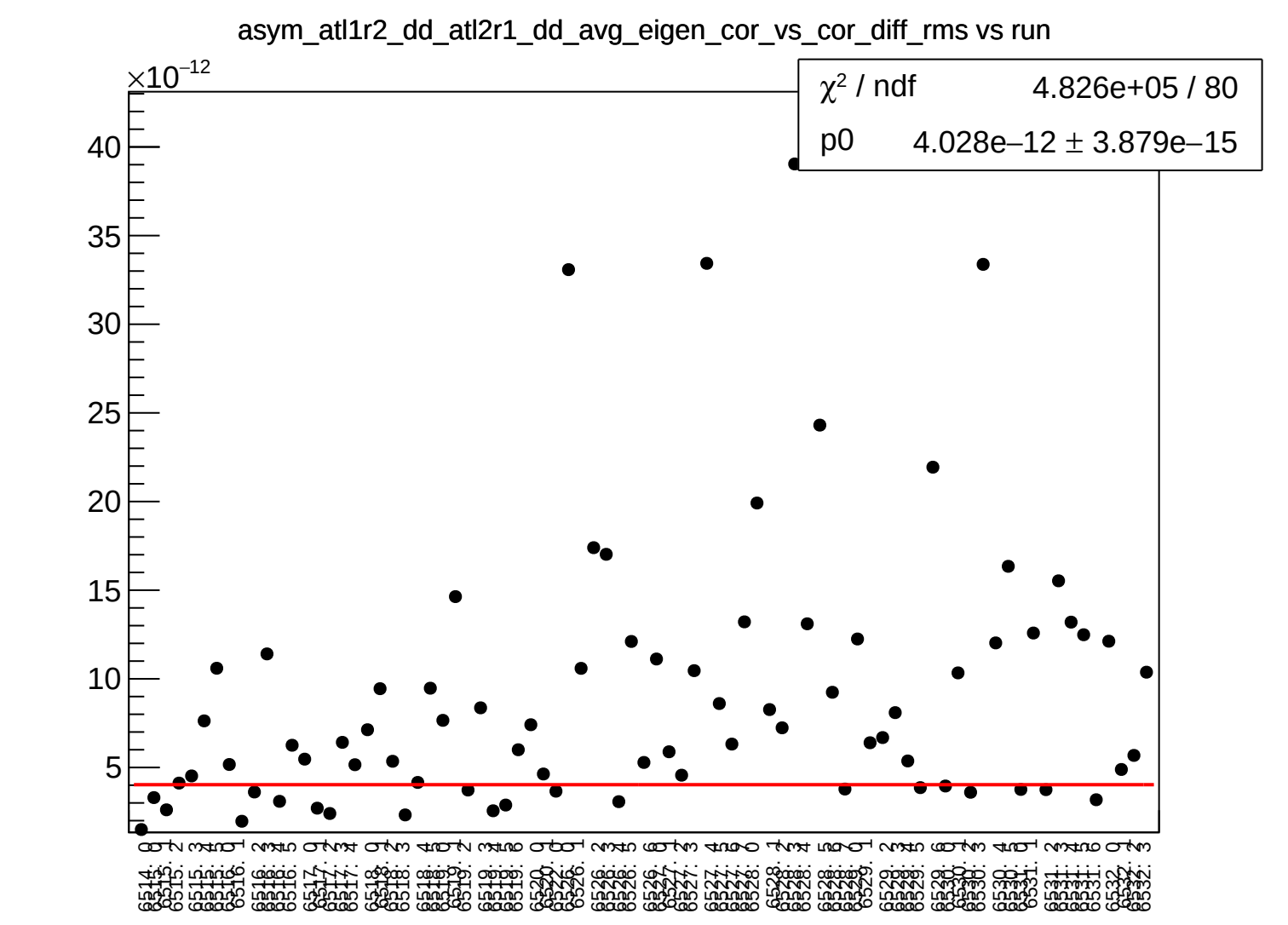

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.299e+05 / 80
p0 22.51 ± 0.01952
80
70
60
50
40
30
20
10

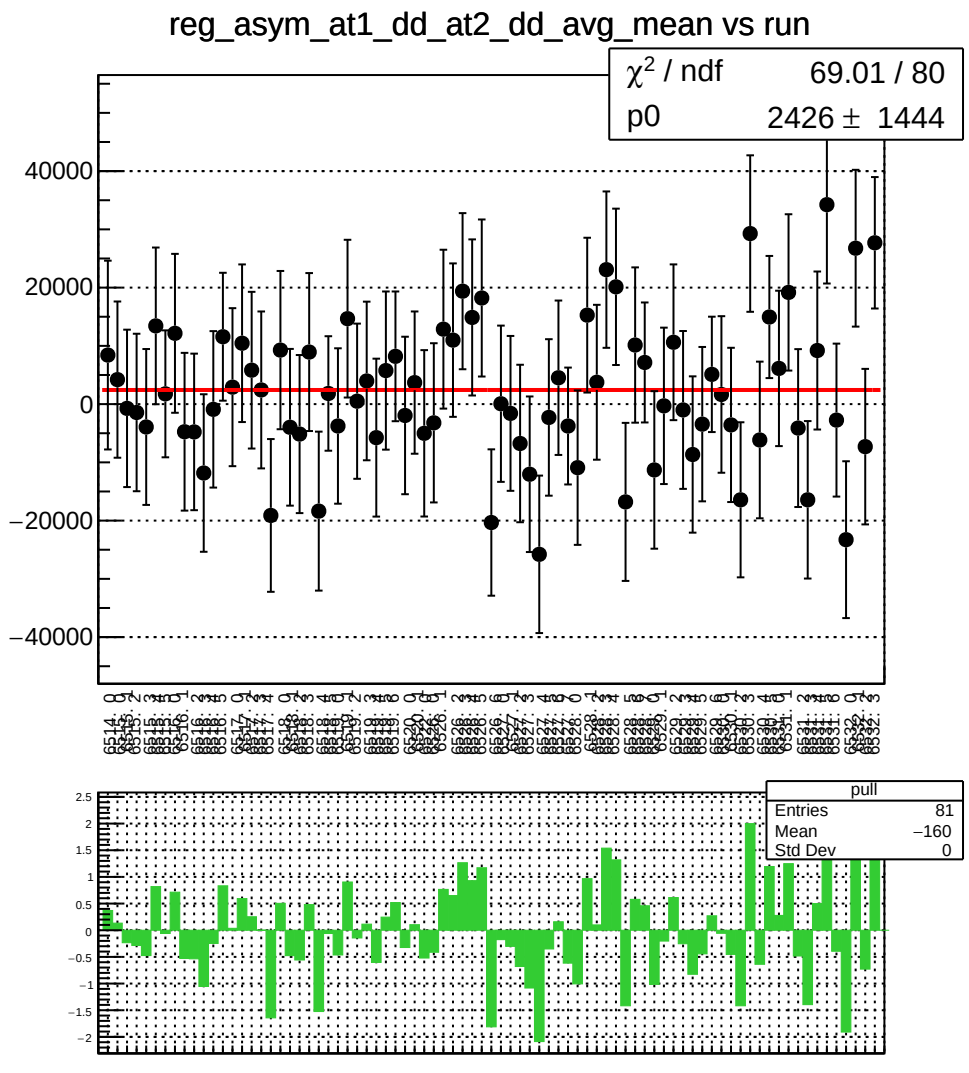

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.62 / 80
p0 −0.02981 ± 0.0276
pull
Entries 81
Mean 12.2
Std Dev 0
pull1D
Entries 81
Mean 0.1214
Std Dev 0.9902

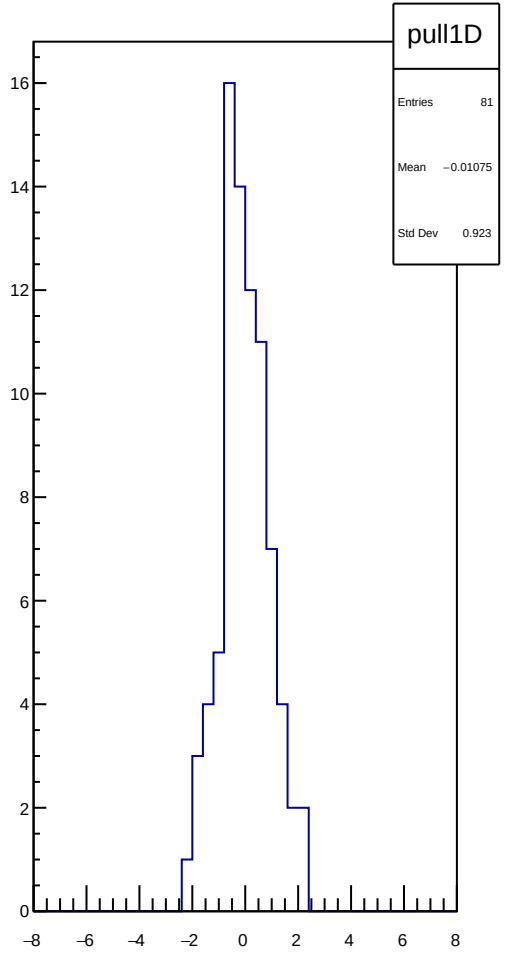

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.299e+05 / 80
p0 22.51 ± 0.01952
80
70
60
50
40
30
20
10

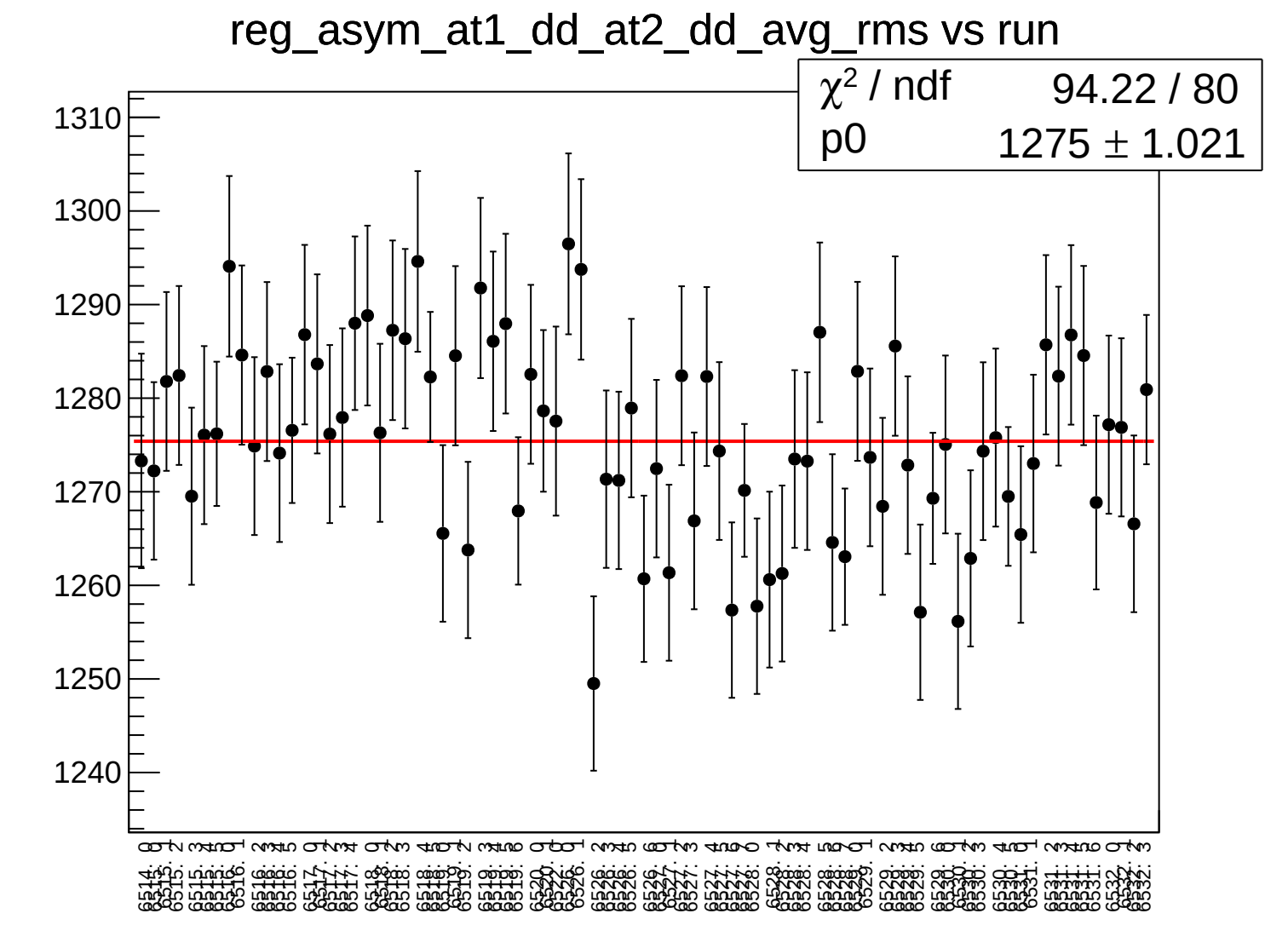

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 89.54 / 80
p0 2.714e−15 ± 5.486e−15
pull
Entries 81
Mean −74.92
Std Dev 0

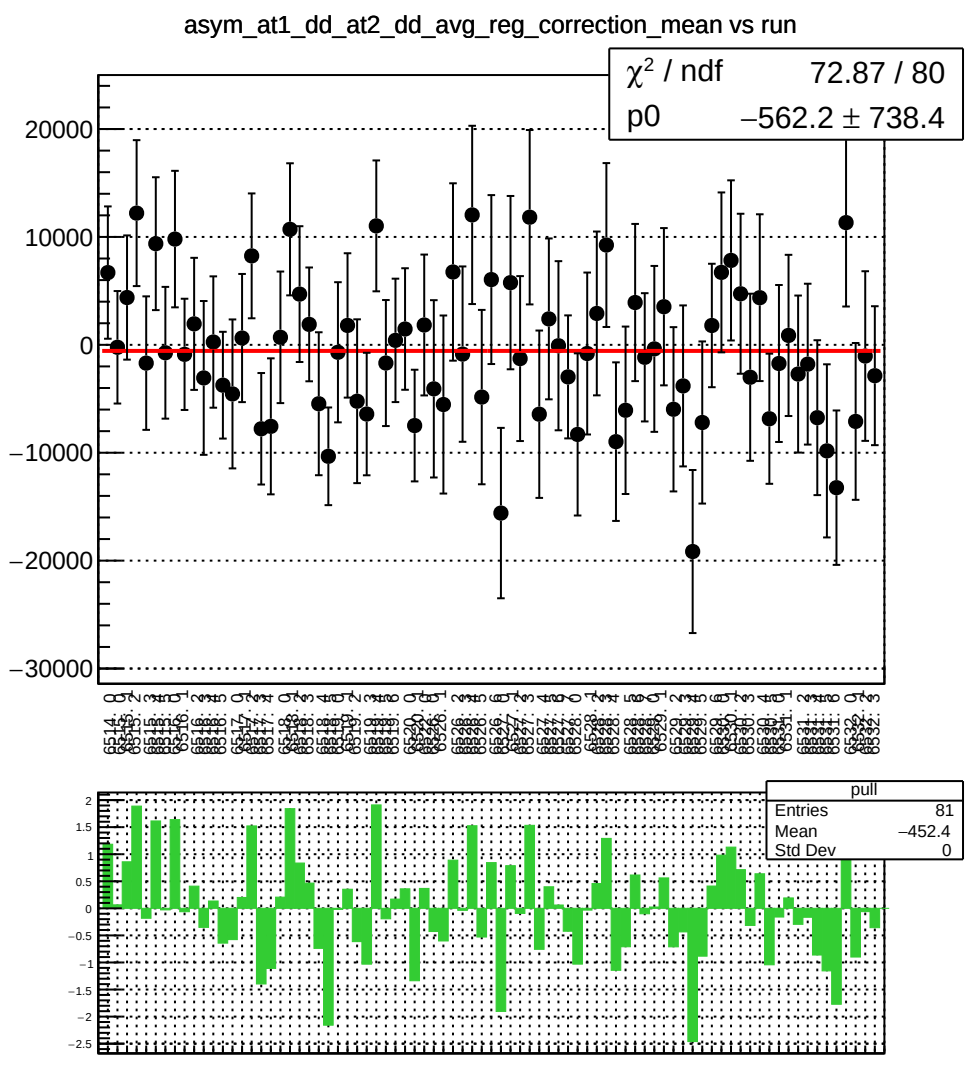

pull1D
Entries 81
Mean 0.02591
Std Dev 1.051

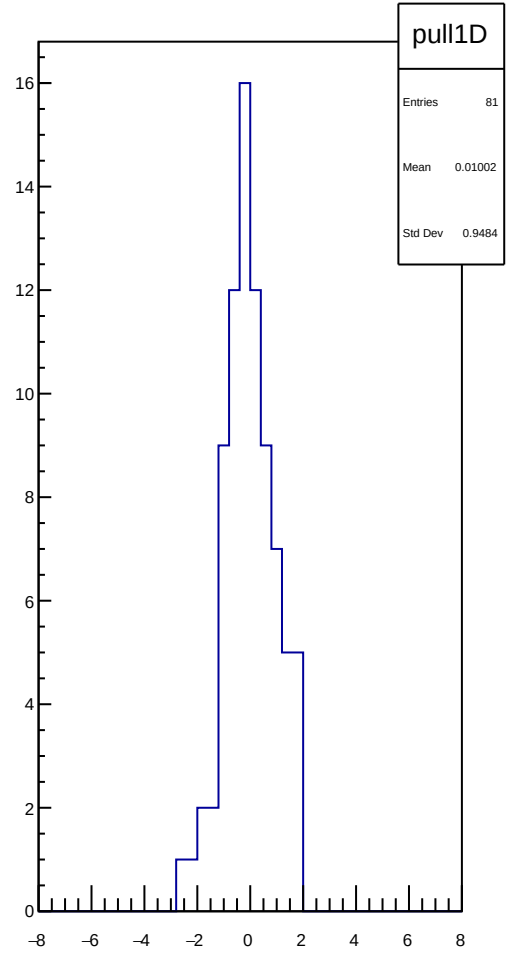

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.826e+05 / 80
p0 4.028e−12 ± 3.879e−15
40
35
30
25
20
15
10
5

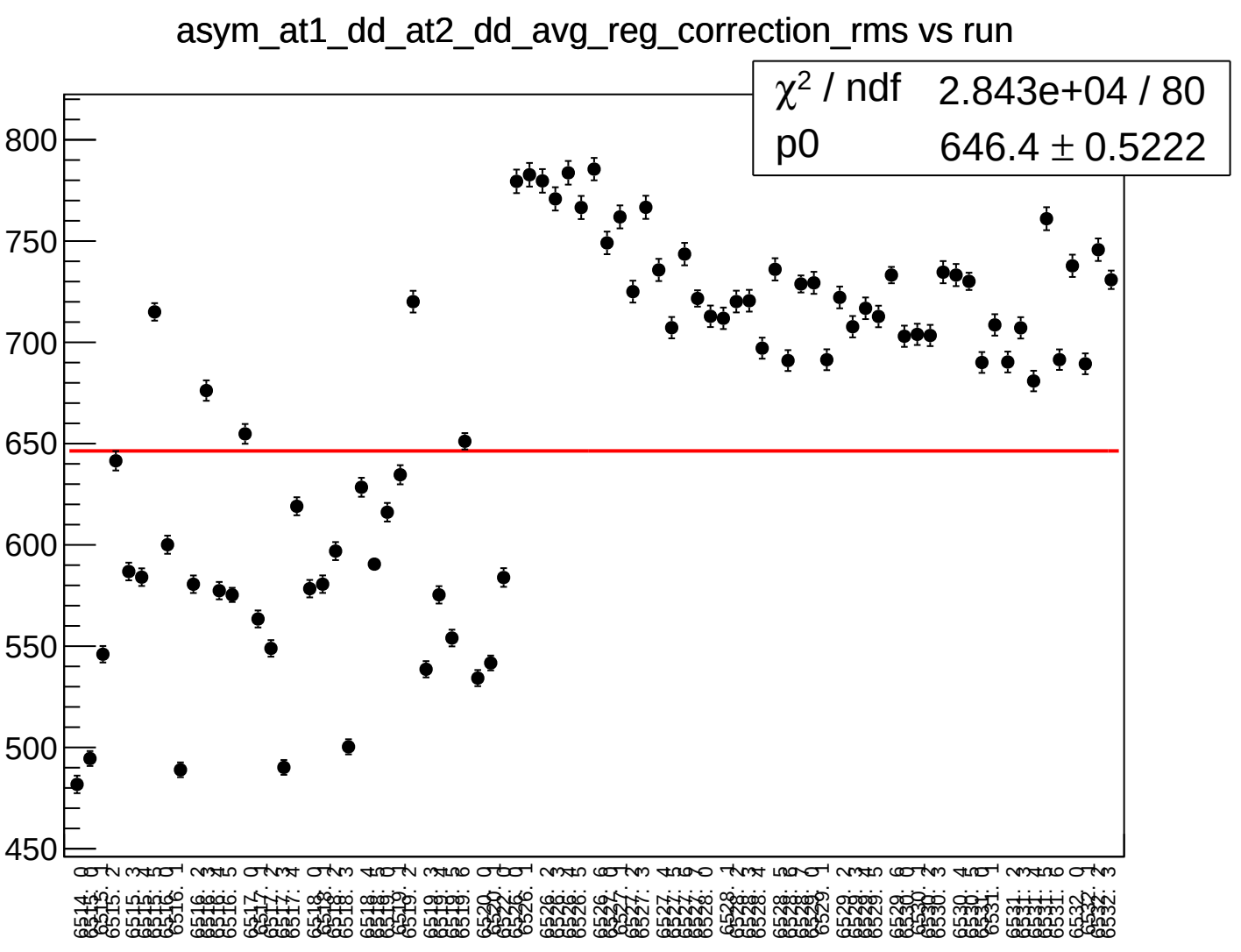

reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 69.01 / 80
p0 2426 ± 1444
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −160
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

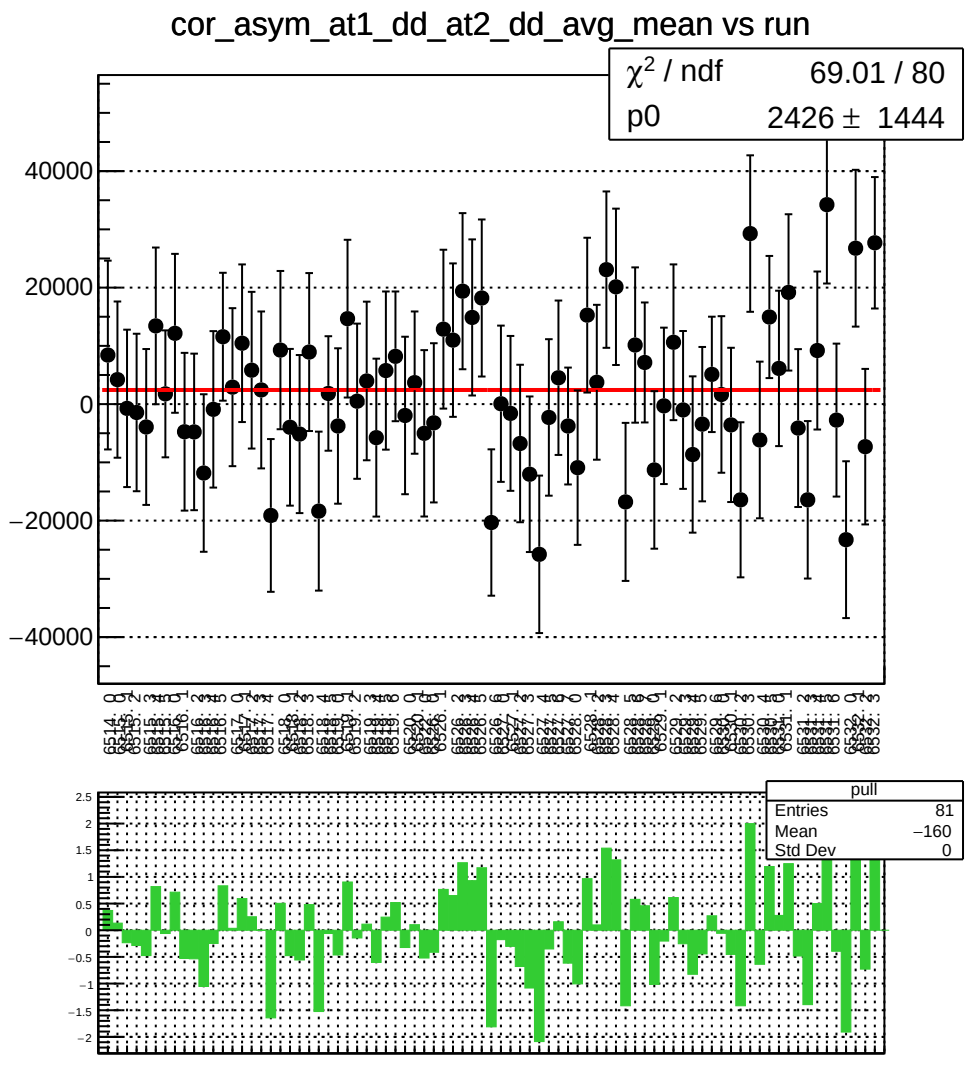

pull1D
Entries 81
Mean −0.01075
Std Dev 0.923
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

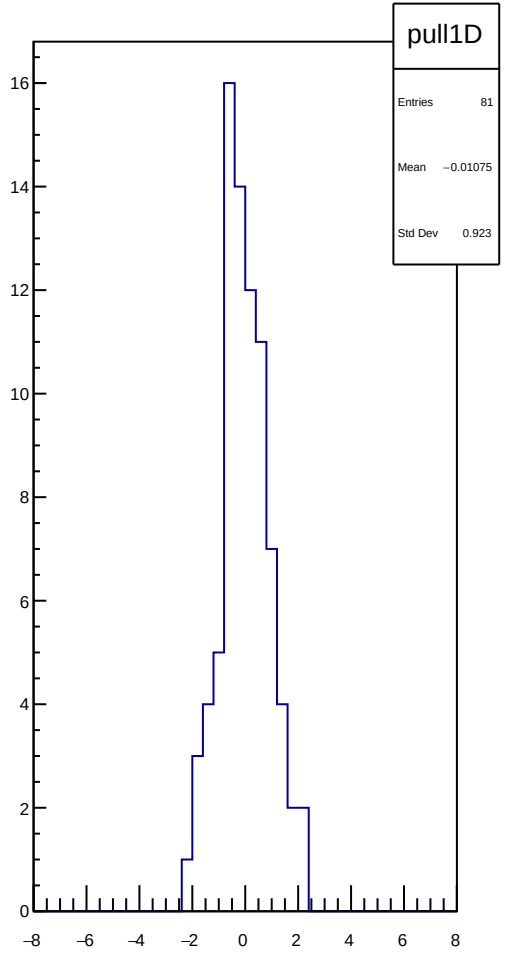

reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 94.22 / 80
p0 1275 ± 1.021
1310
1300
1290
1280
1270
1260
1250
1240

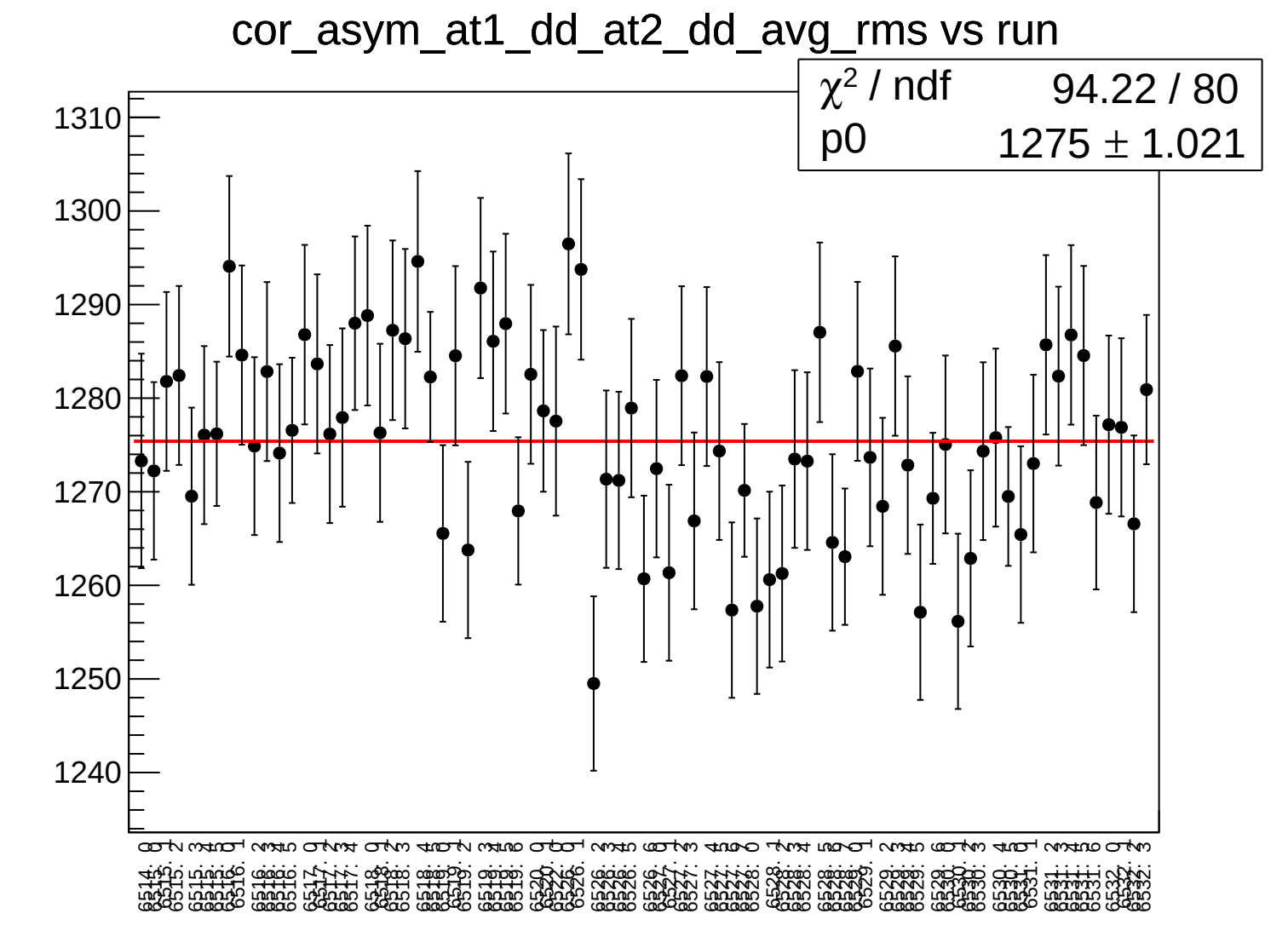

asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 72.87 / 80
p0 −562.2 ± 738.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean −452.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

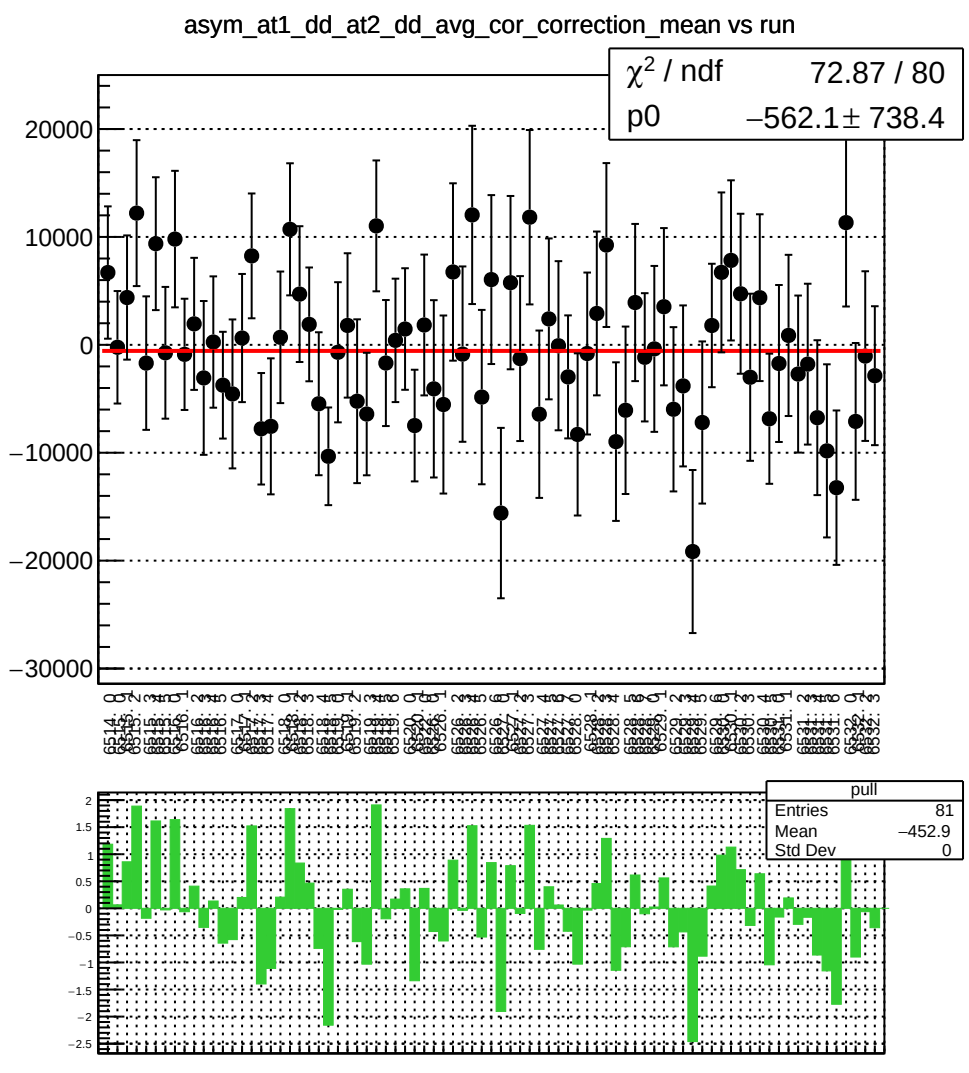

pull1D
Entries 81
Mean 0.01002
Std Dev 0.9484
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

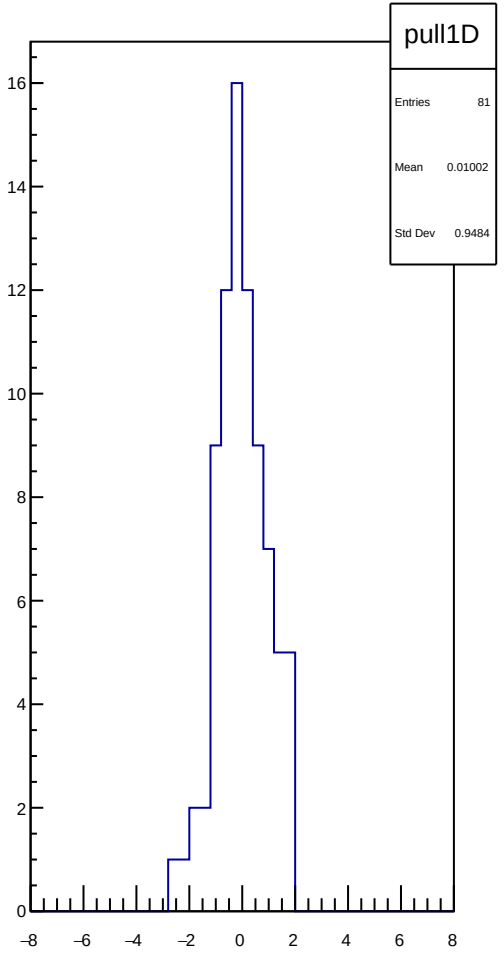

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 2.843e+04 / 80
p0 646.4 ± 0.5222
800
750
700
650
600
550
500
450

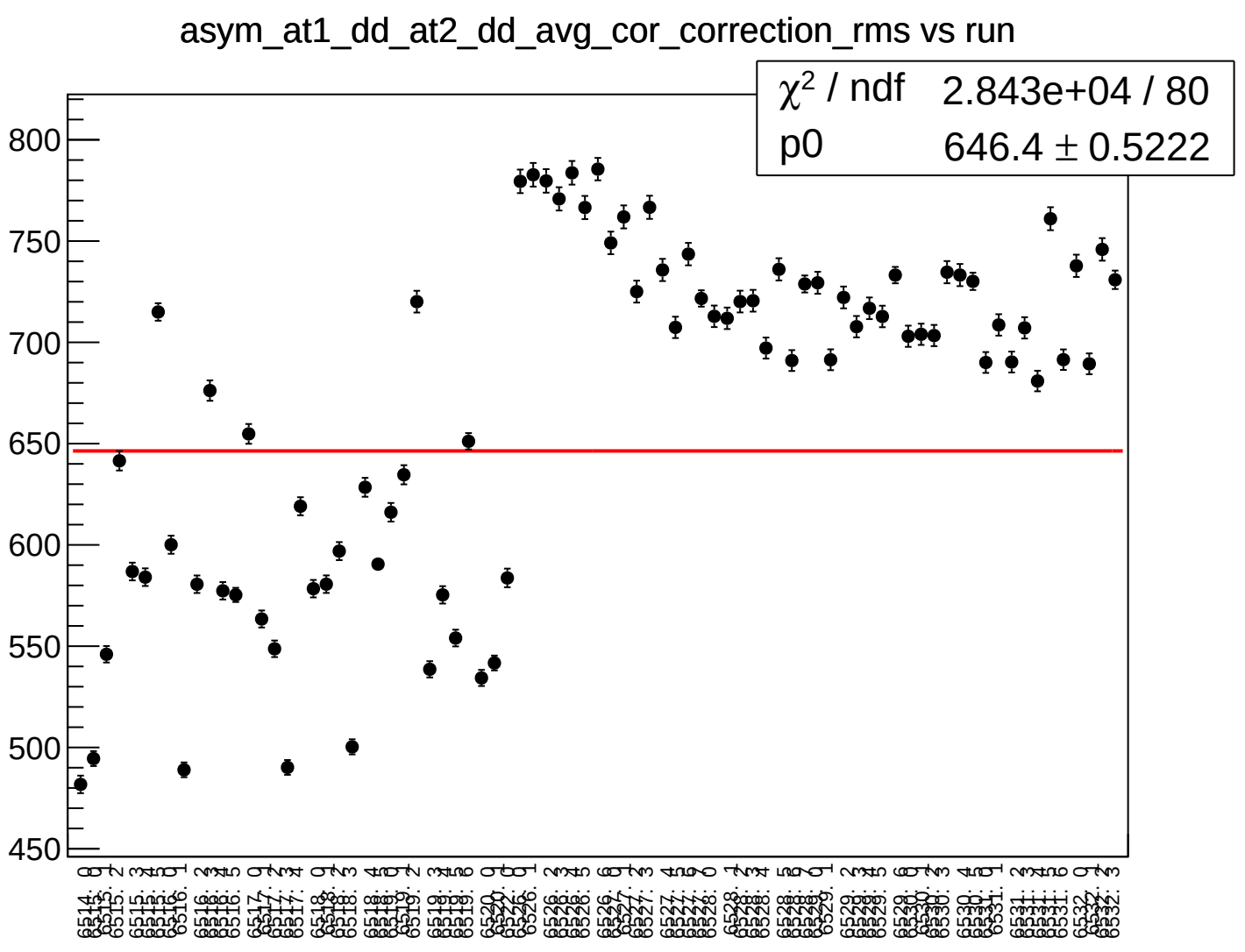

cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 69.01 / 80
p0 2426 ± 1444
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −160
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

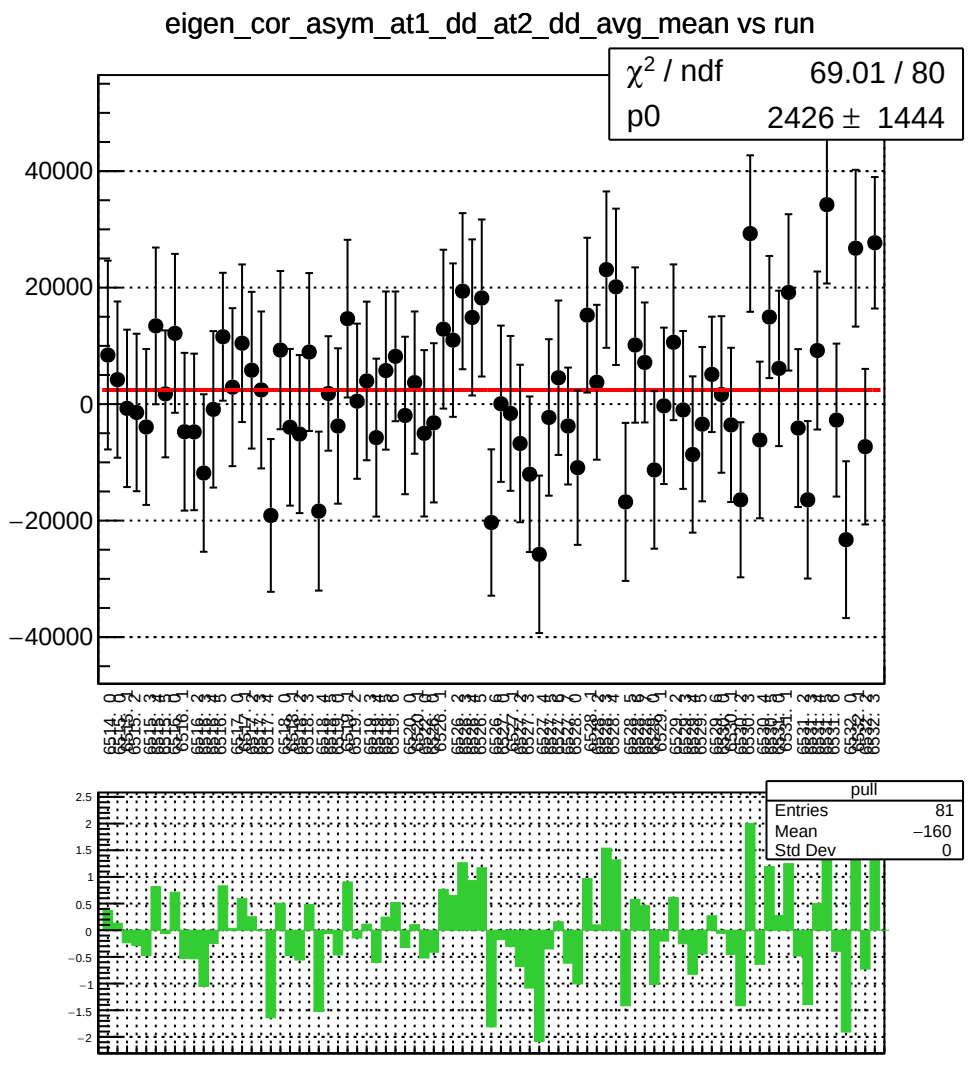

pull1D
Entries 81
Mean −0.01075
Std Dev 0.923
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

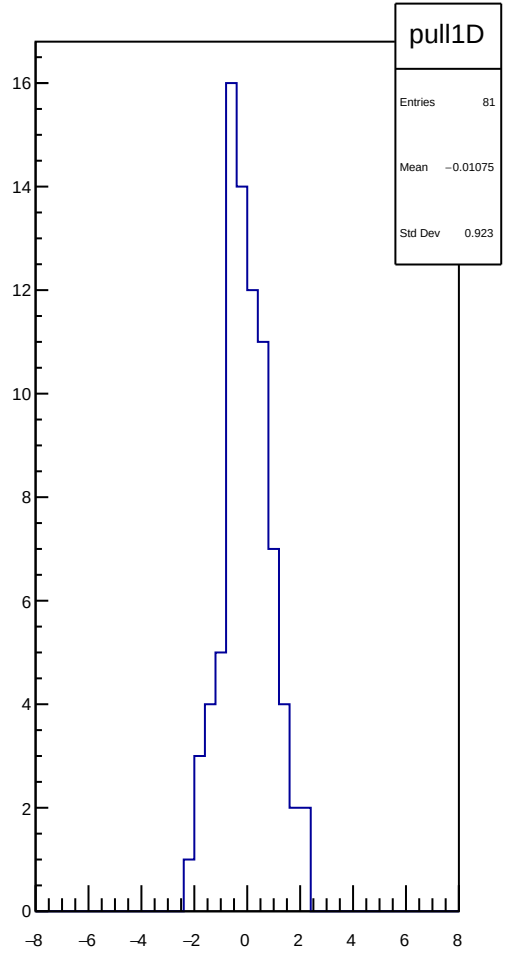

cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 94.22 / 80
p0 1275 ± 1.021
1310
1300
1290
1280
1270
1260
1250
1240

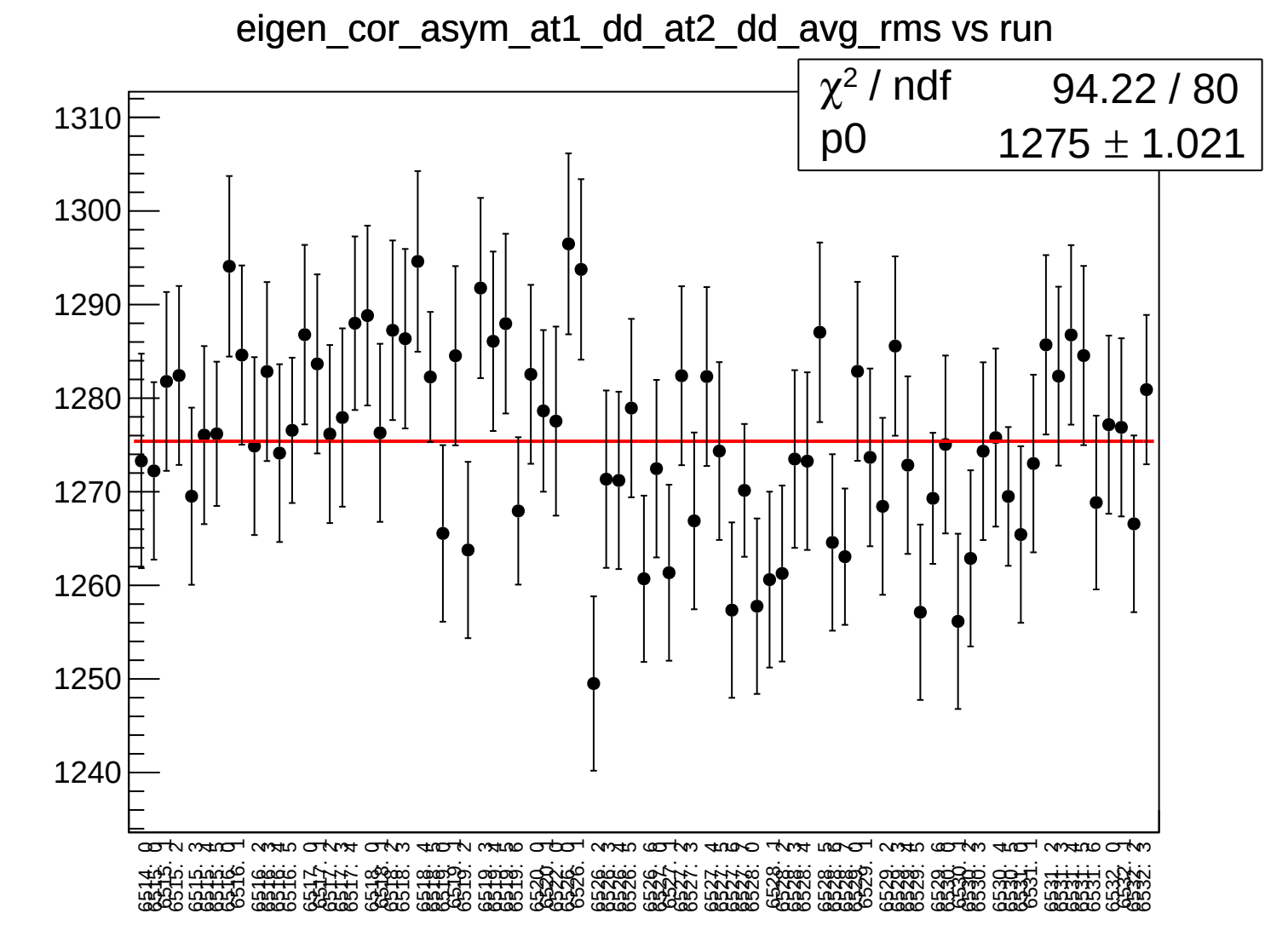

asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 72.87 / 80
p0 −562.1± 738.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean −452.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

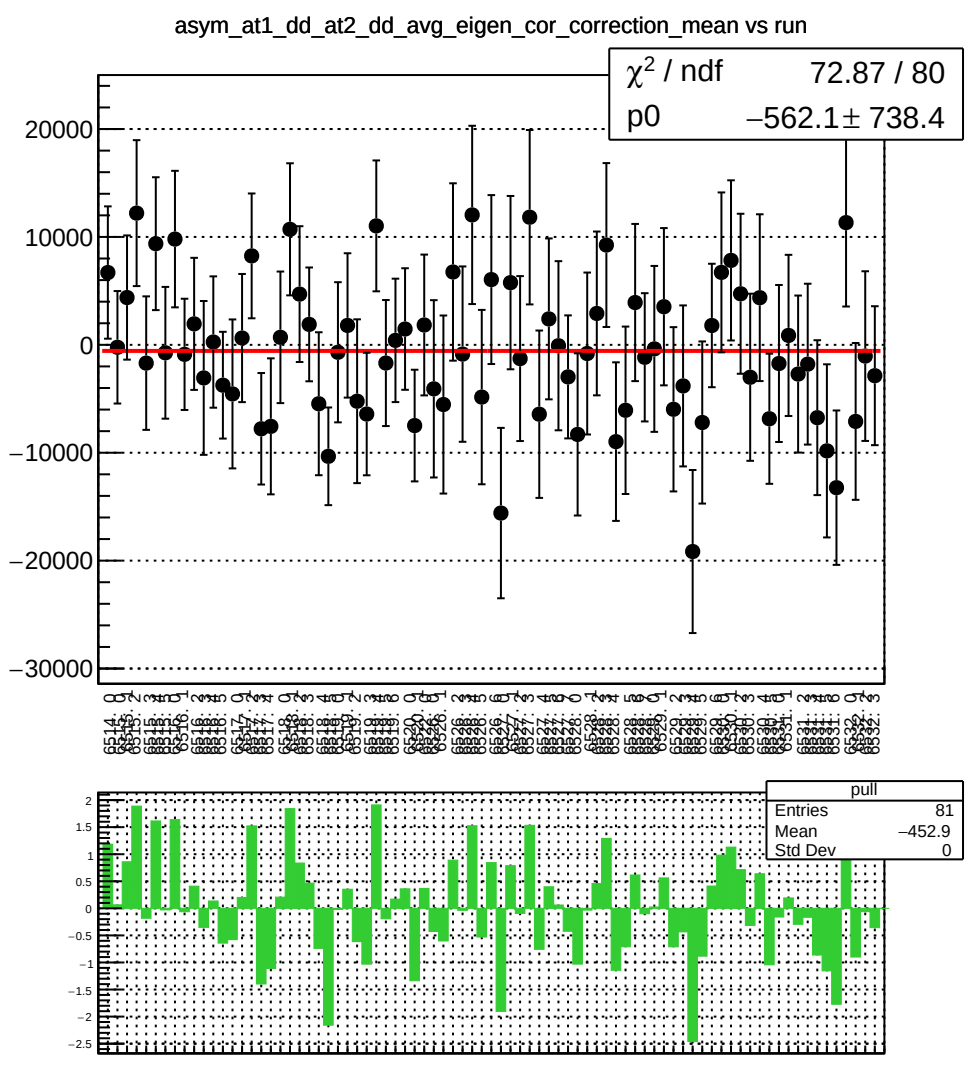

pull1D
Entries 81
Mean 0.01002
Std Dev 0.9484
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

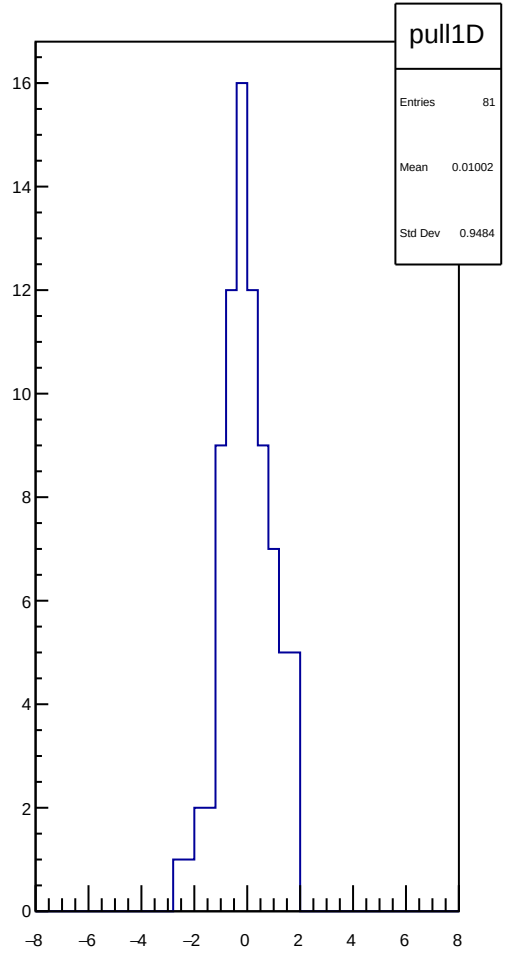

asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 2.843e+04 / 80
p0 646.4 ± 0.5222
800
750
700
650
600
550
500
450

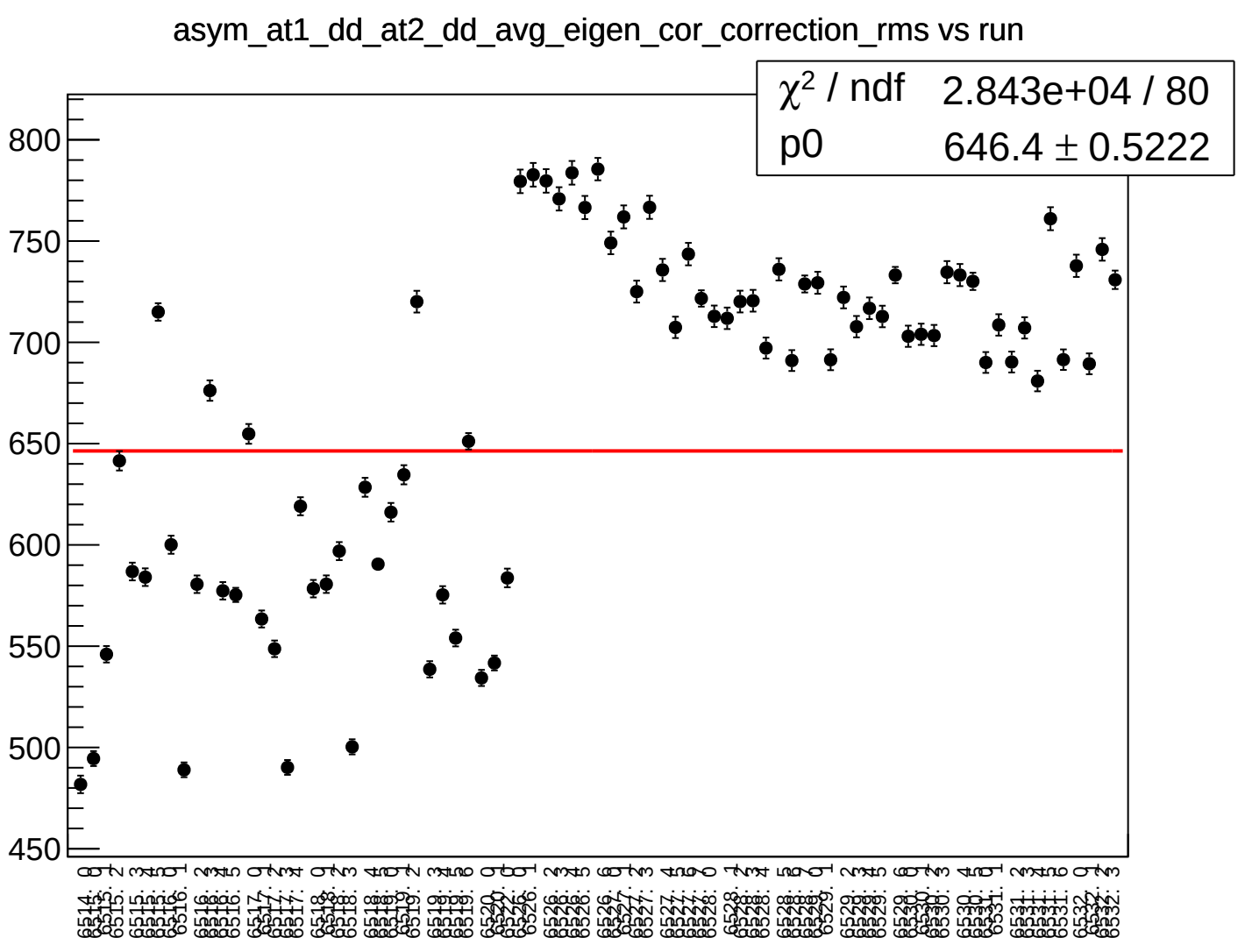

eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 69.01 / 80
p0 2426 ± 1444
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −160
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

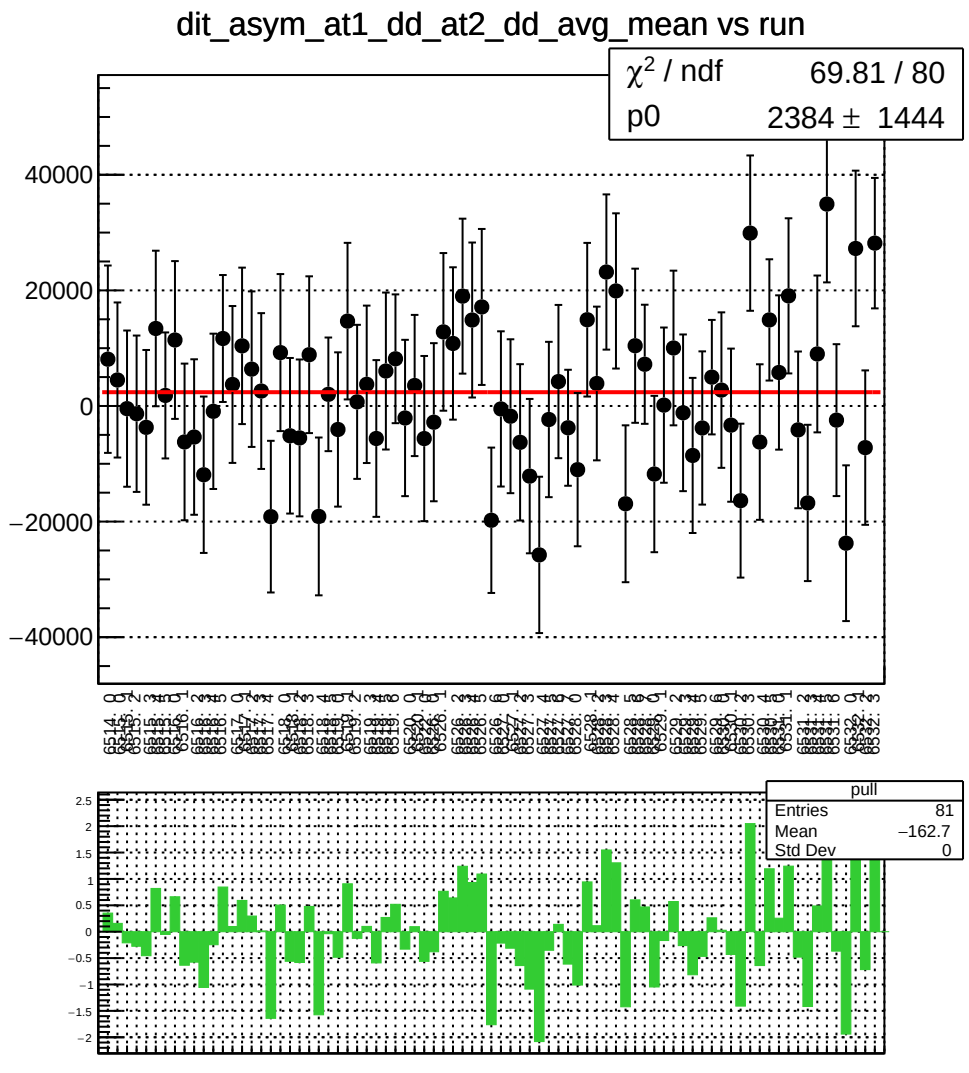

pull1D
Entries 81
Mean −0.01075
Std Dev 0.923
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

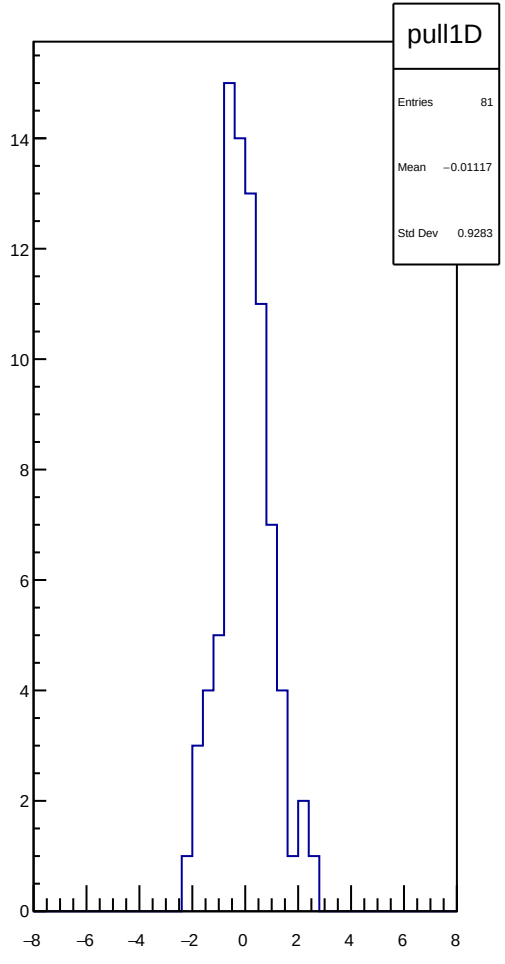

eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 94.22 / 80
p0 1275 ± 1.021
1310
1300
1290
1280
1270
1260
1250
1240

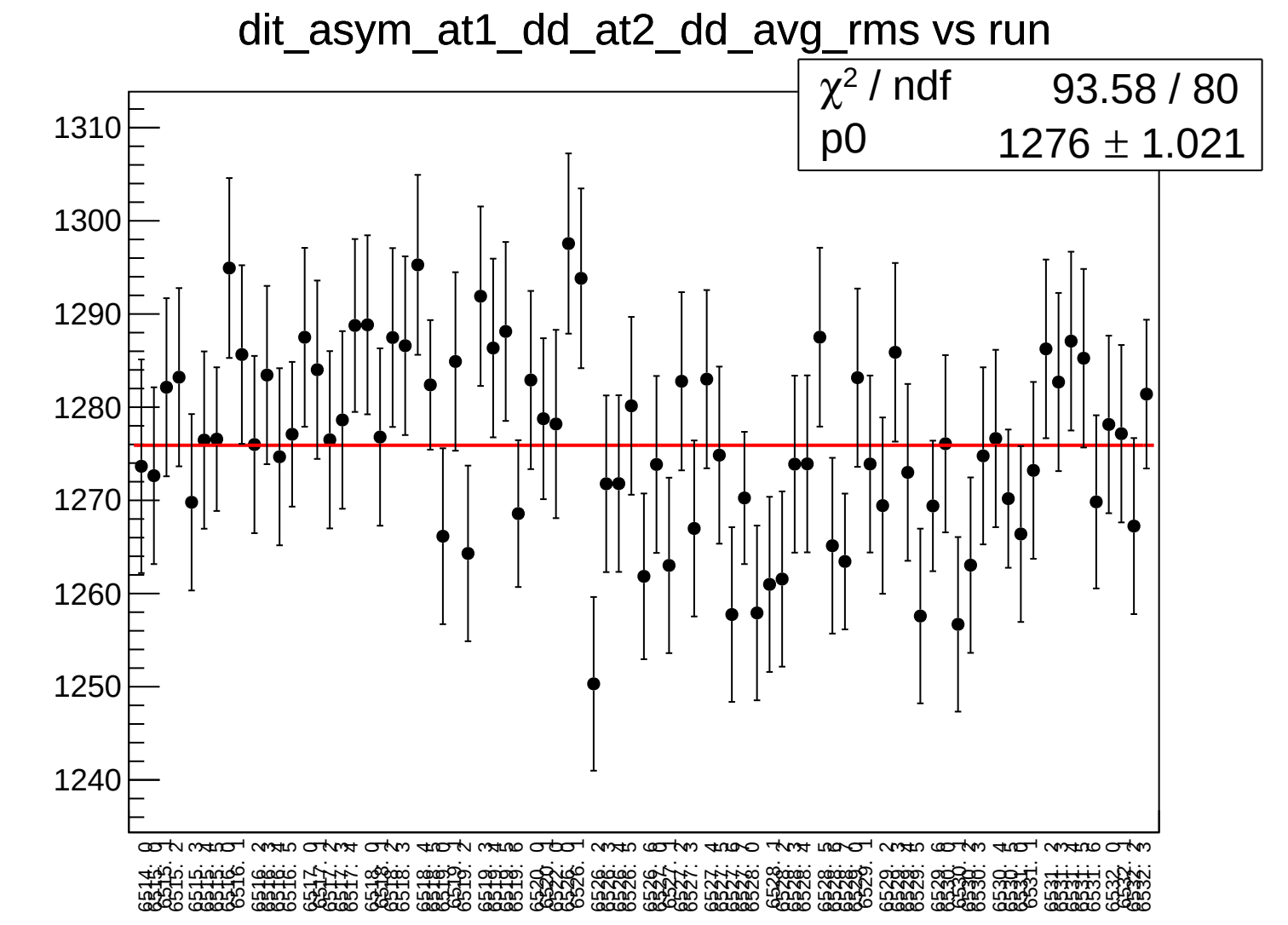

asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 72.87 / 80
p0 −562.1± 738.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean −452.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

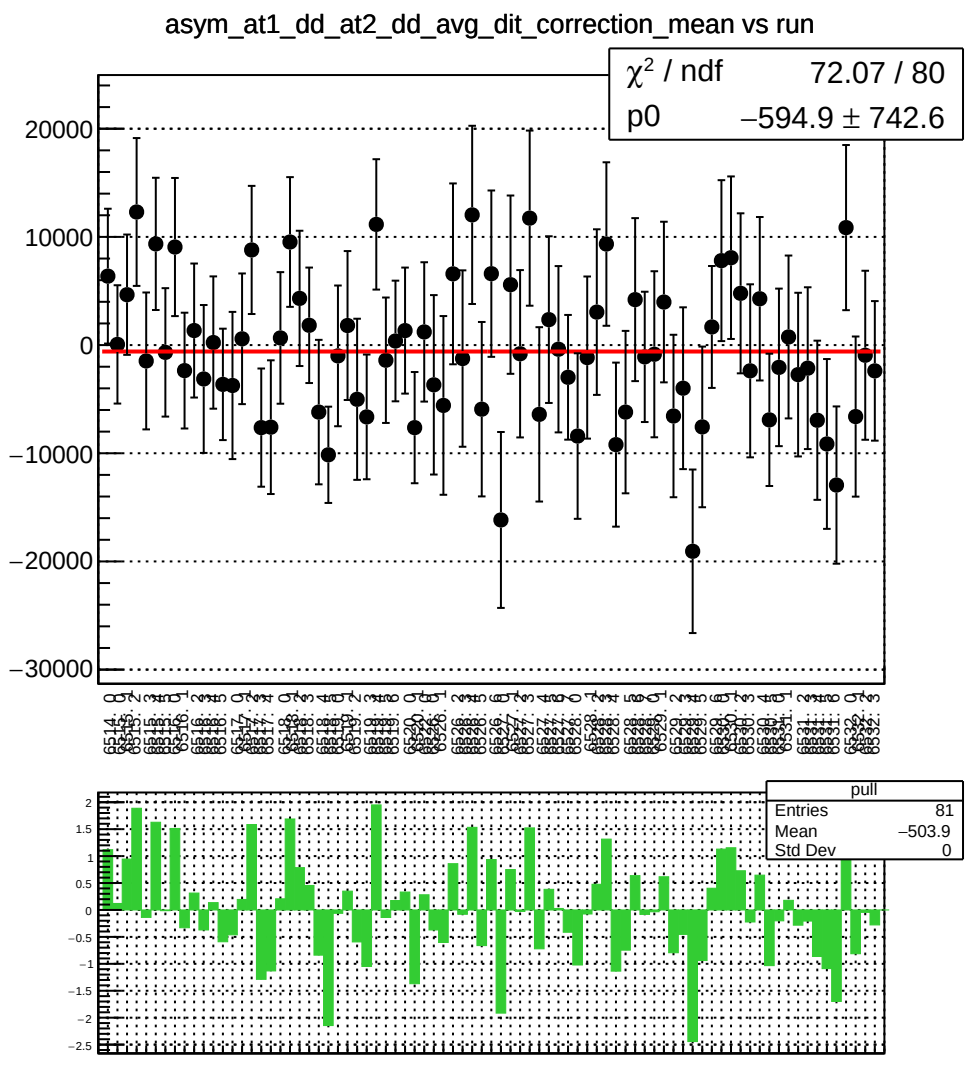

pull1D
Entries 81
Mean 0.01002
Std Dev 0.9484
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

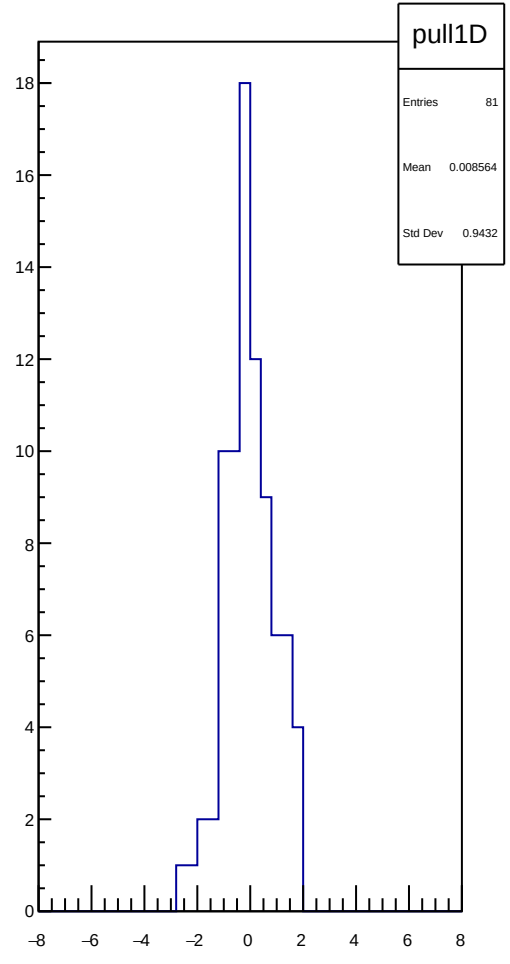

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.843e+04 / 80
p0 646.4 ± 0.5222
800
750
700
650
600
550
500
450

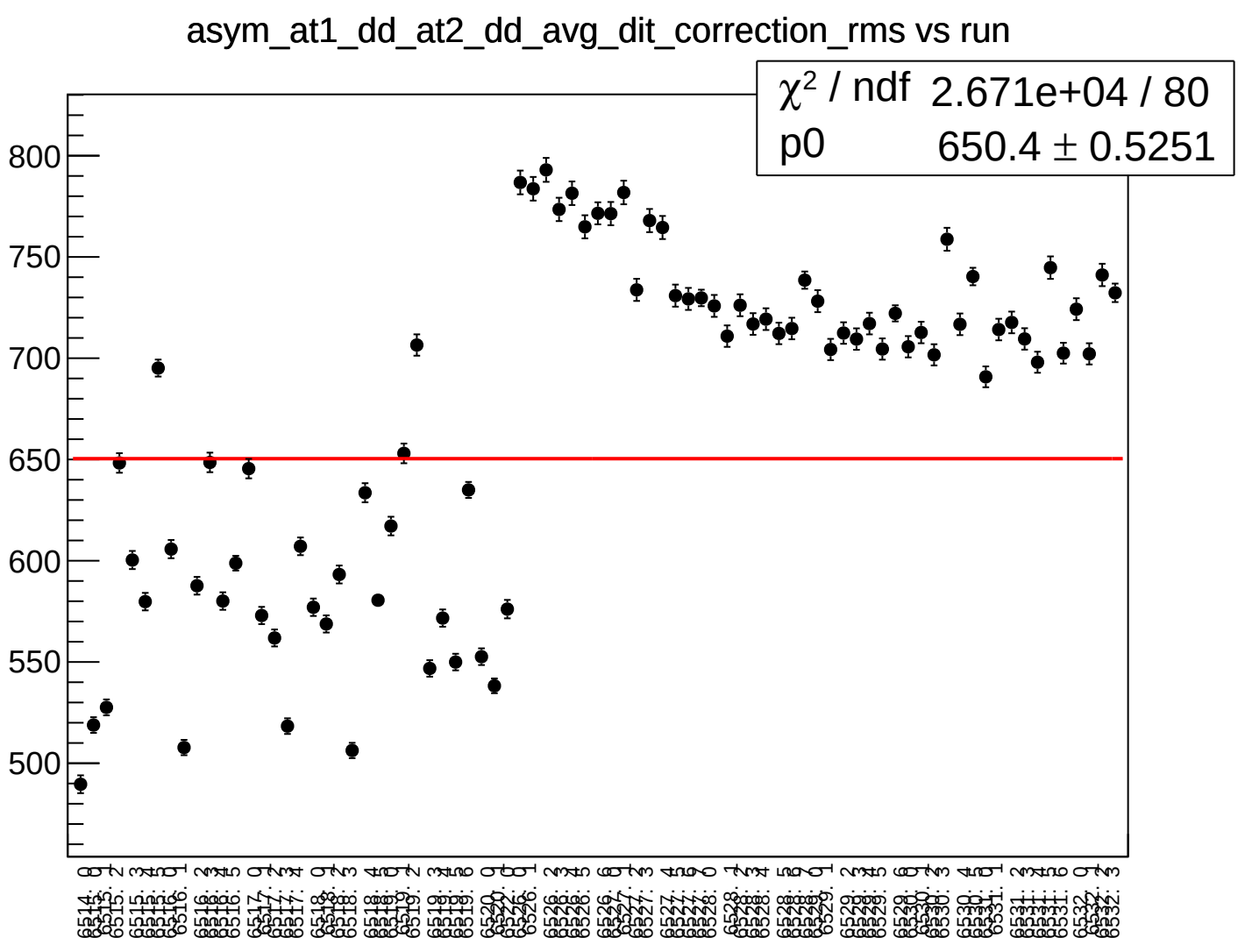

dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 69.81 / 80
p0 2384 ± 1444
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −162.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

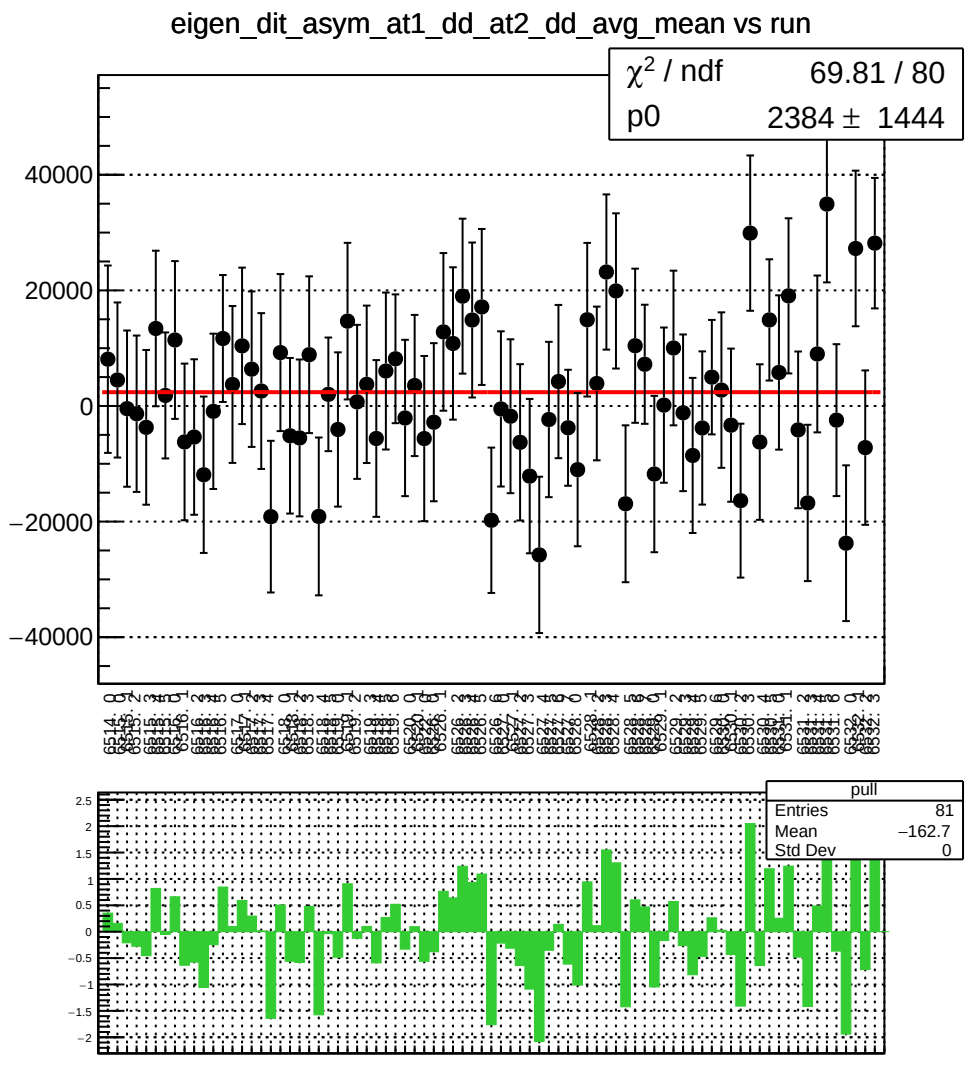

pull1D
Entries 81
Mean −0.01117
Std Dev 0.9283
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

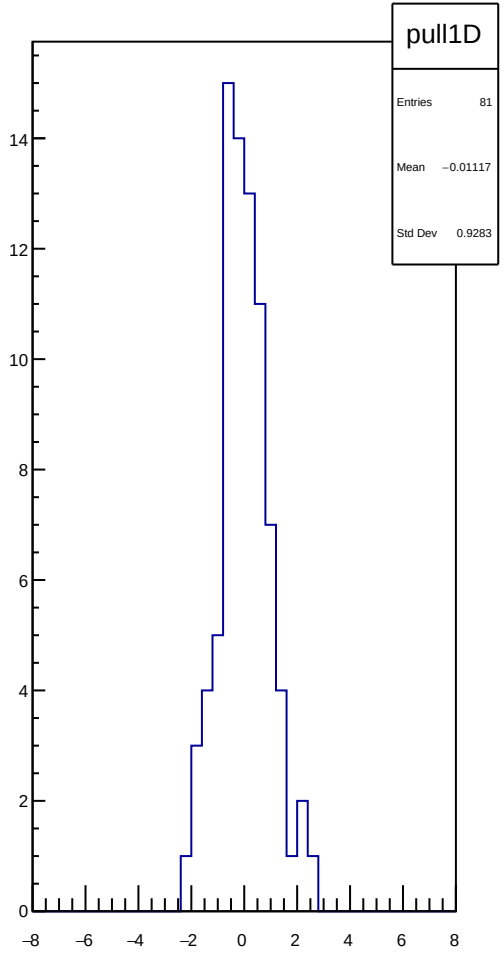

dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 93.58 / 80
p0 1276 ± 1.021
1310
1300
1290
1280
1270
1260
1250
1240

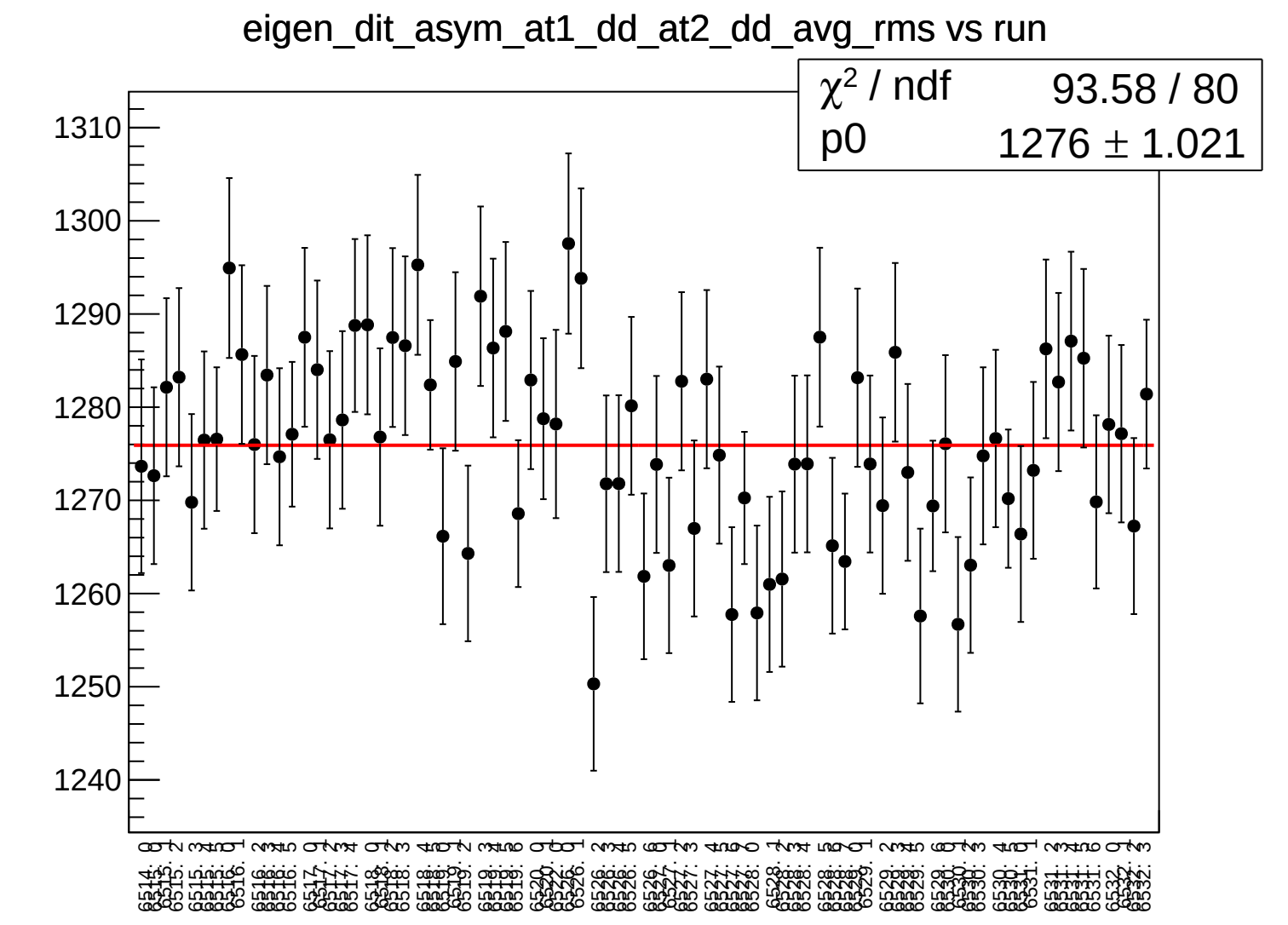

asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 72.07 / 80
p0 −594.9 ± 742.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean −503.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

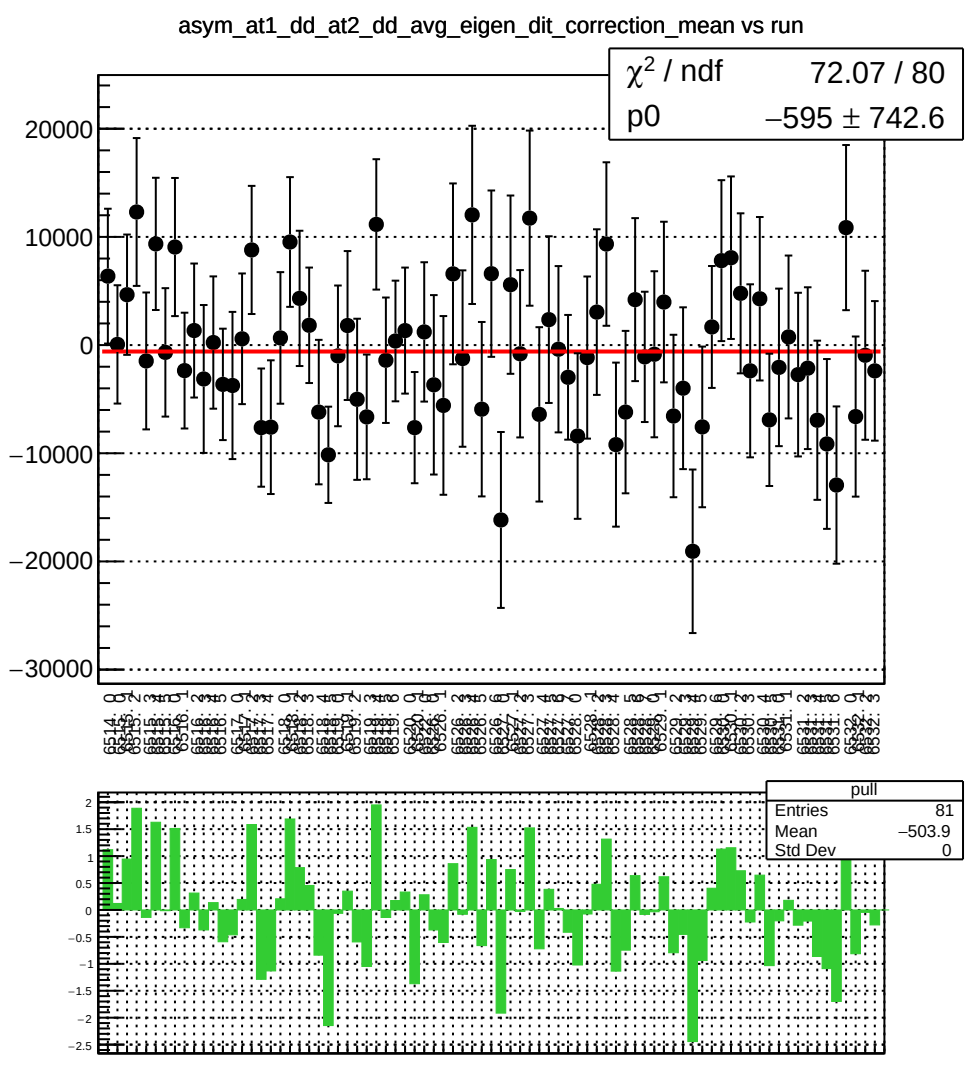

pull1D
Entries 81
Mean 0.008564
Std Dev 0.9432
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

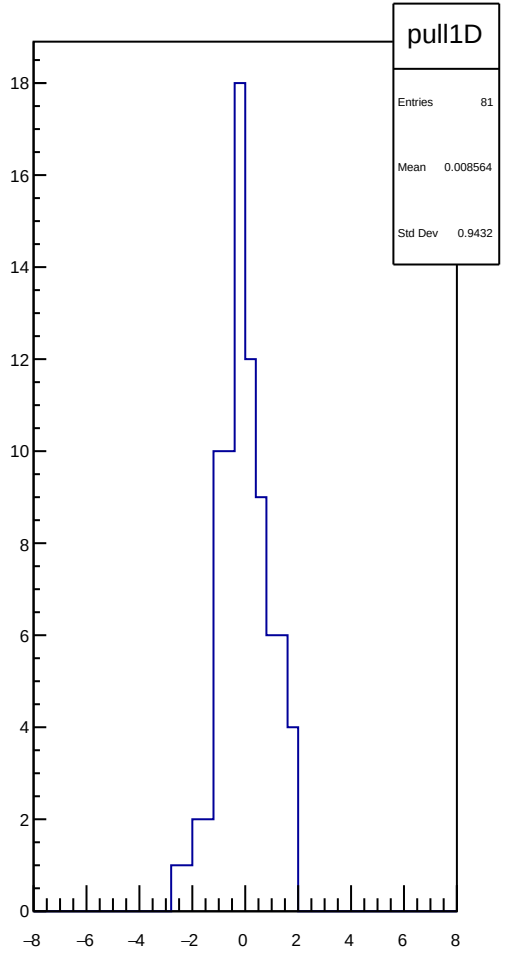

asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 2.671e+04 / 80
p0 650.4 ± 0.5251
800
750
700
650
600
550
500

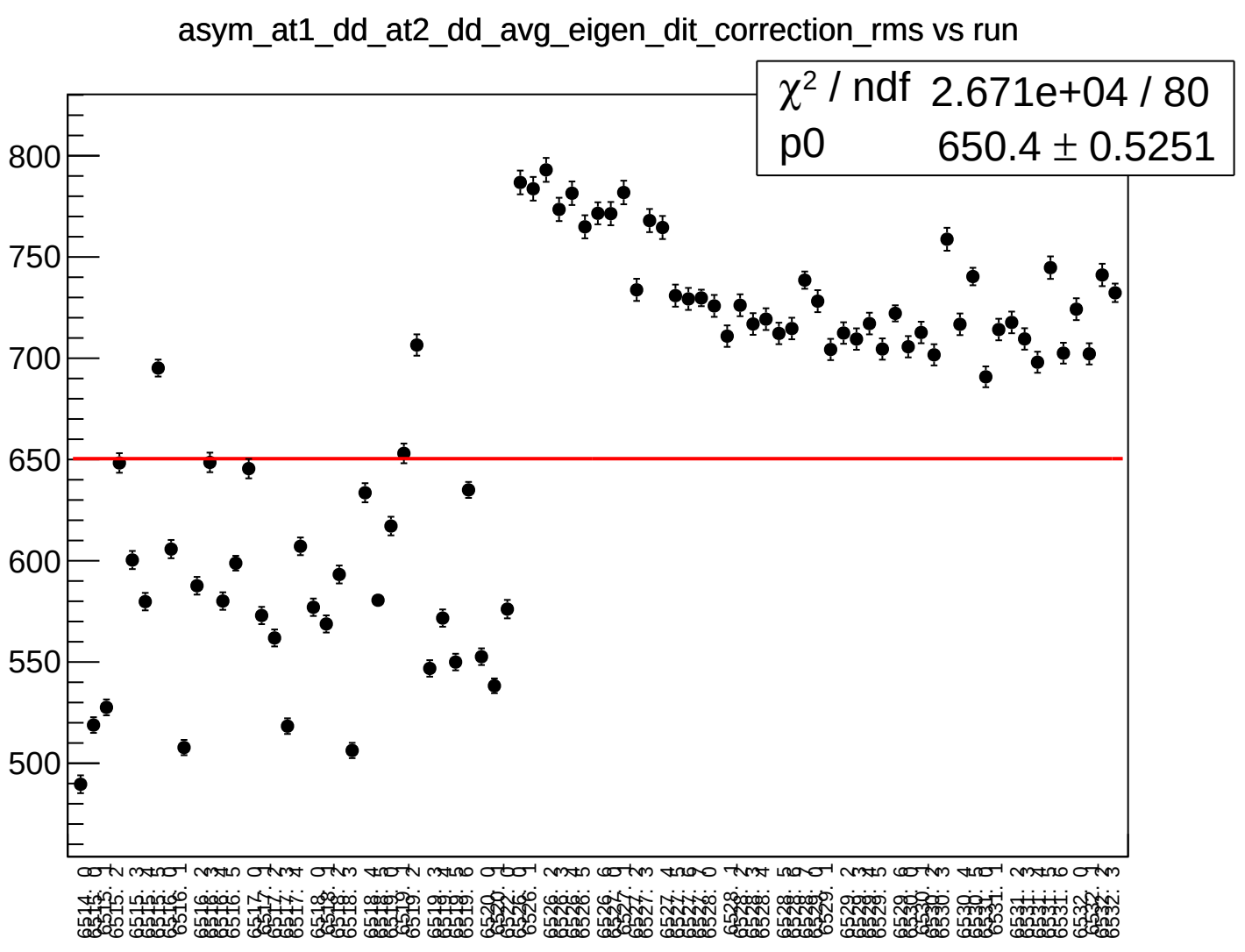

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 69.81 / 80
p0 2384 ± 1444
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −162.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

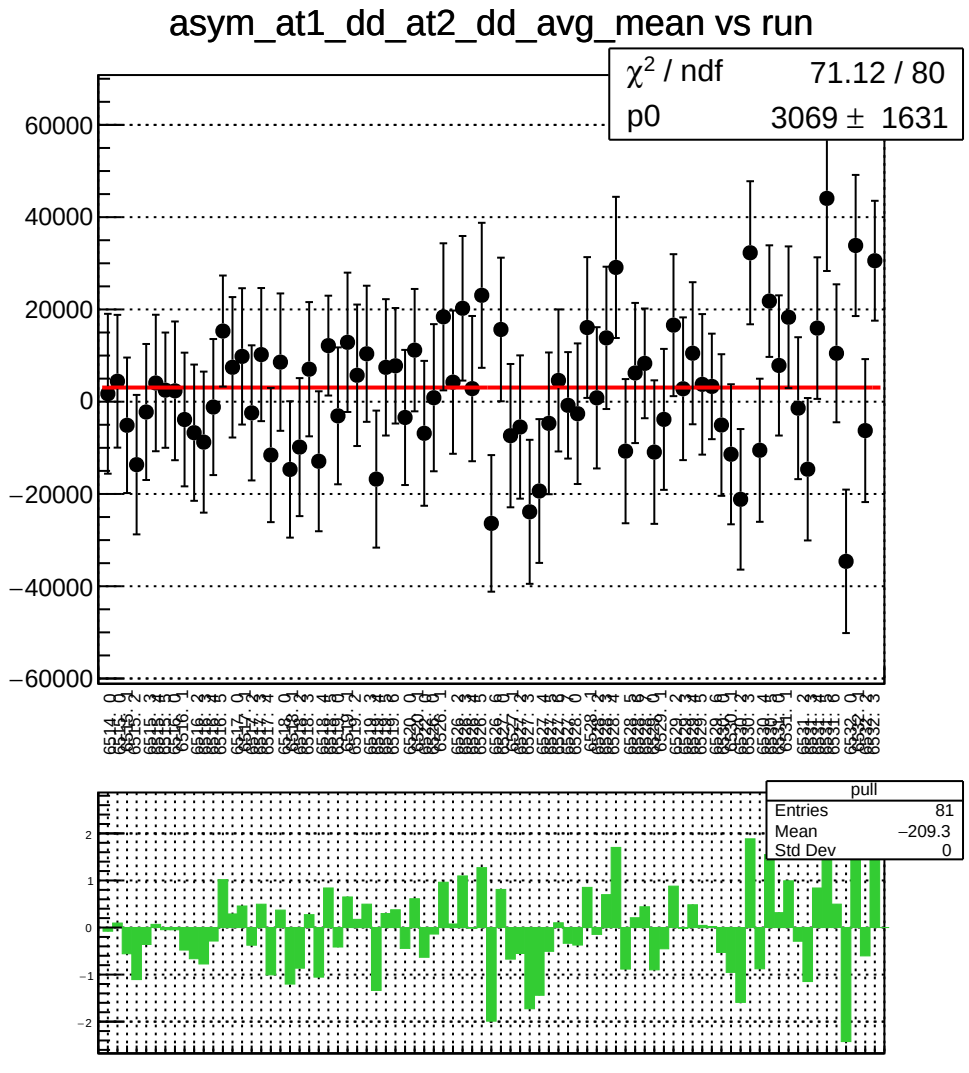

pull1D
Entries 81
Mean −0.01117
Std Dev 0.9283
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

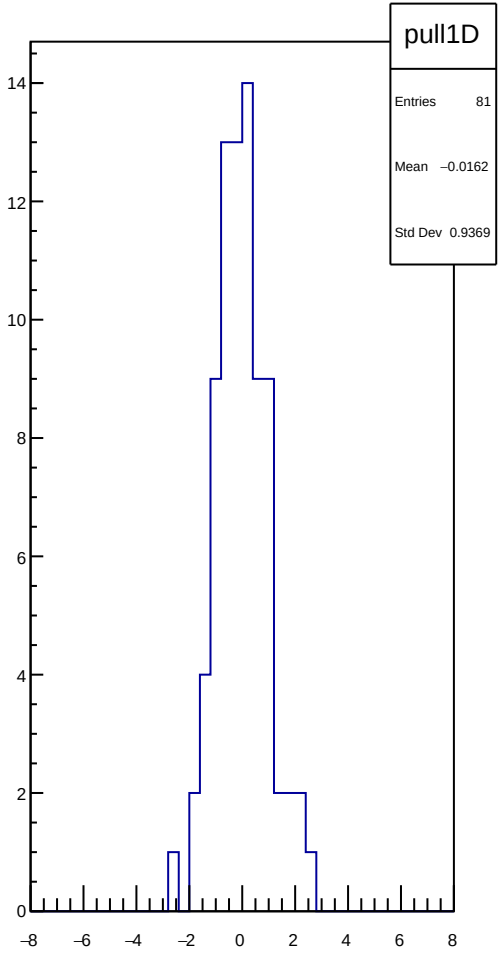

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 93.58 / 80
p0 1276 ± 1.021
1310
1300
1290
1280
1270
1260
1250
1240

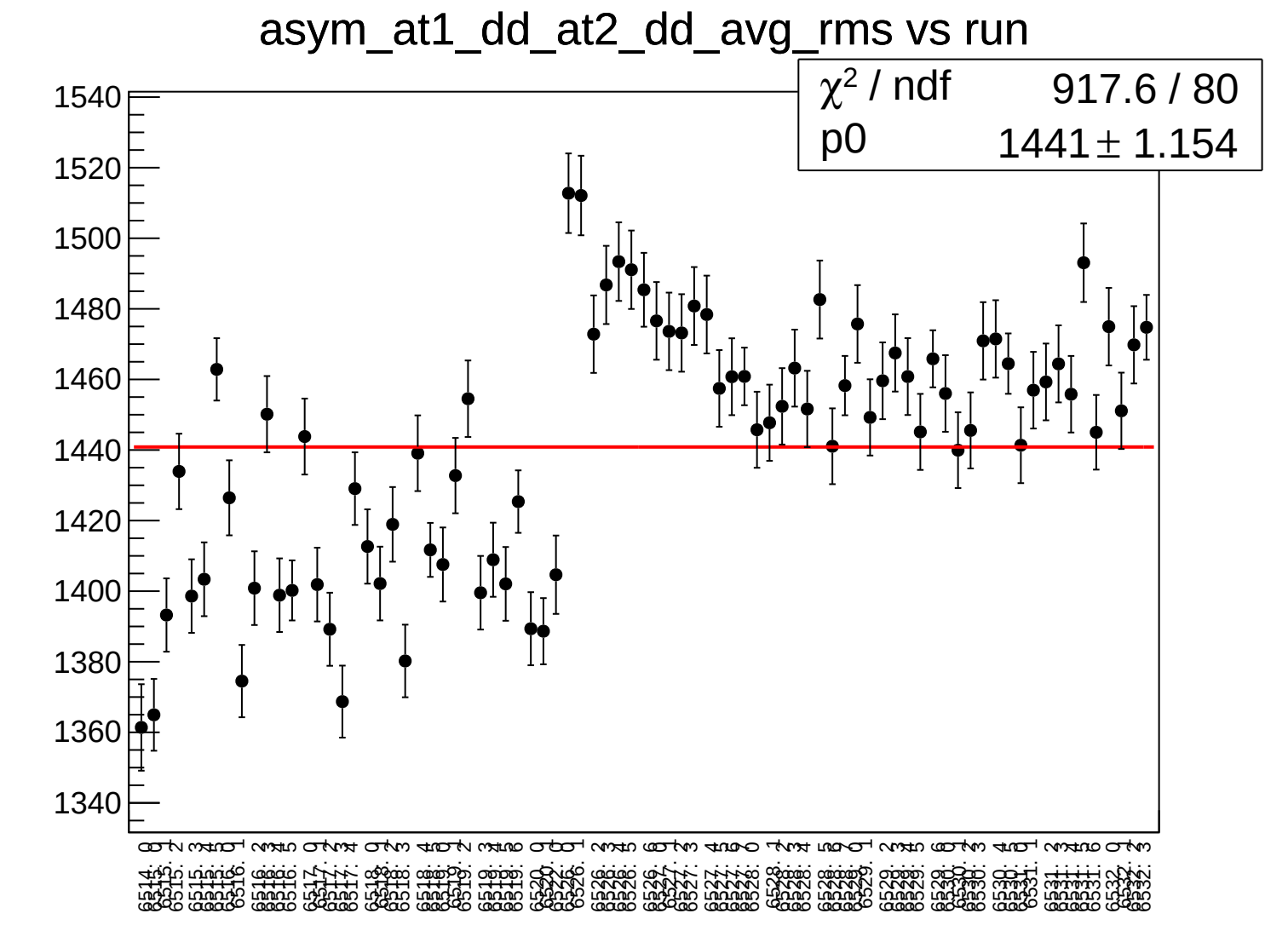

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 72.07 / 80
p0 −595 ± 742.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean −503.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

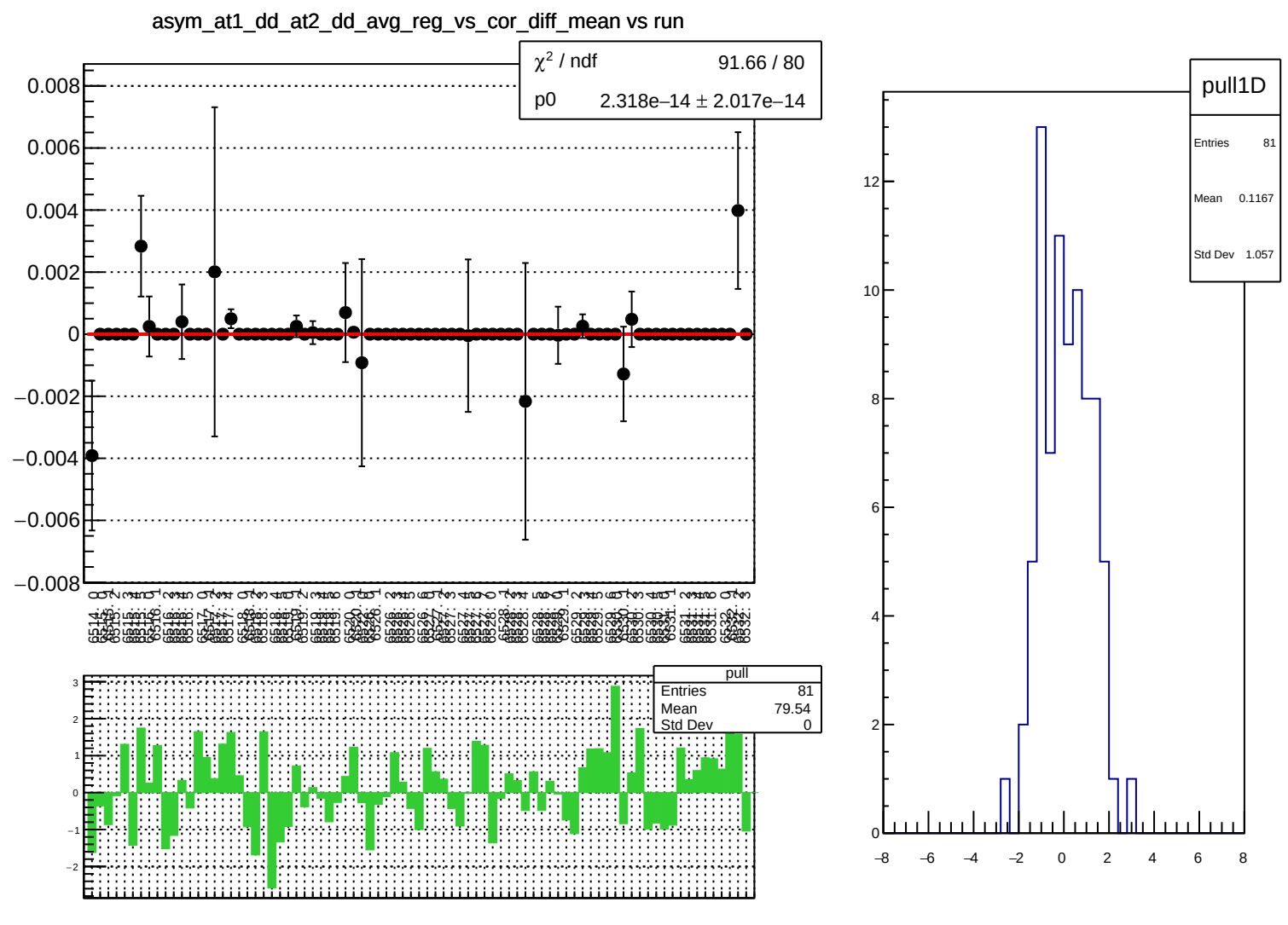

pull1D
Entries 81
Mean 0.008564
Std Dev 0.9432
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

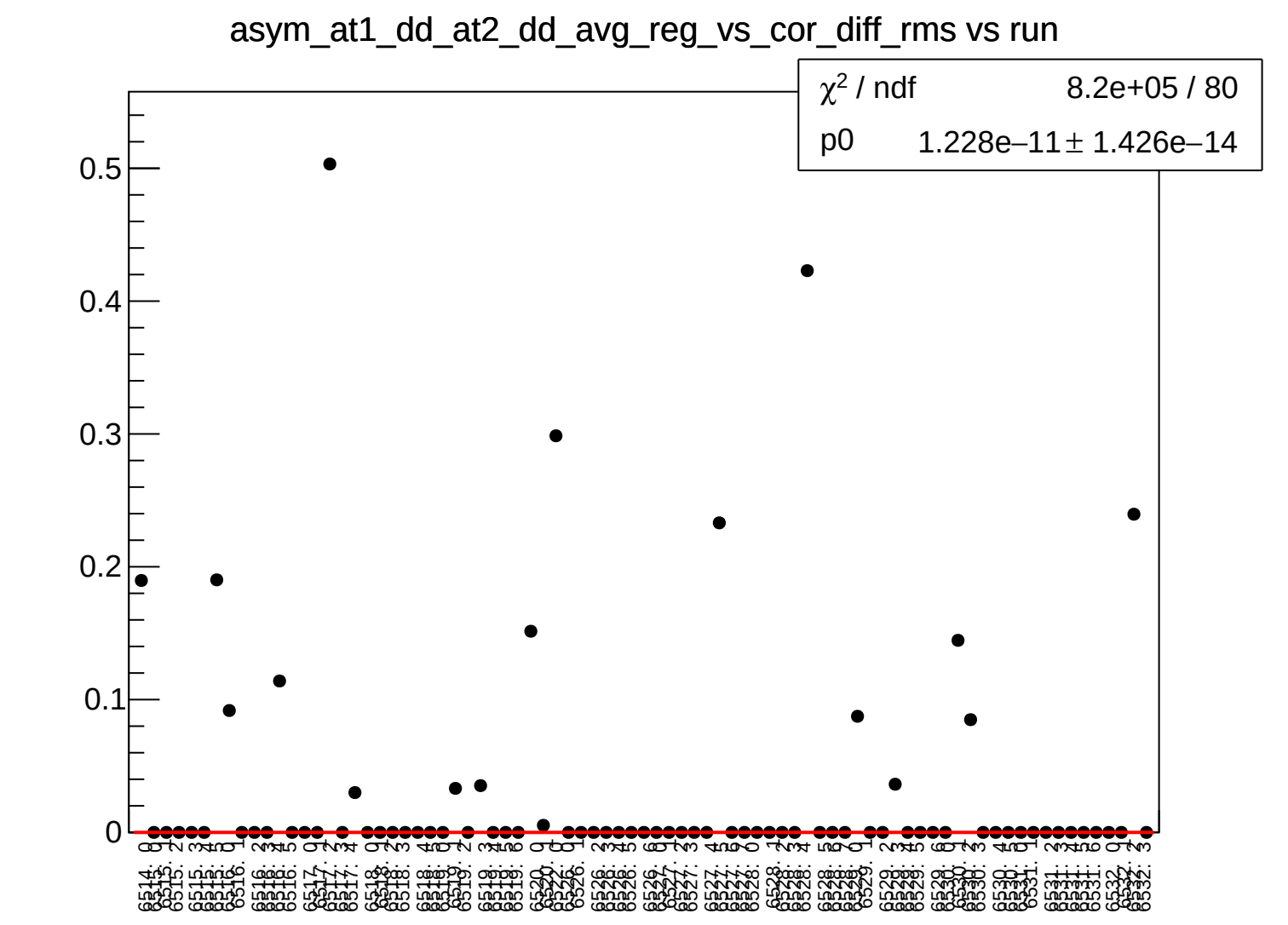

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.671e+04 / 80
p0 650.4 ± 0.5251
800
750
700
650
600
550
500

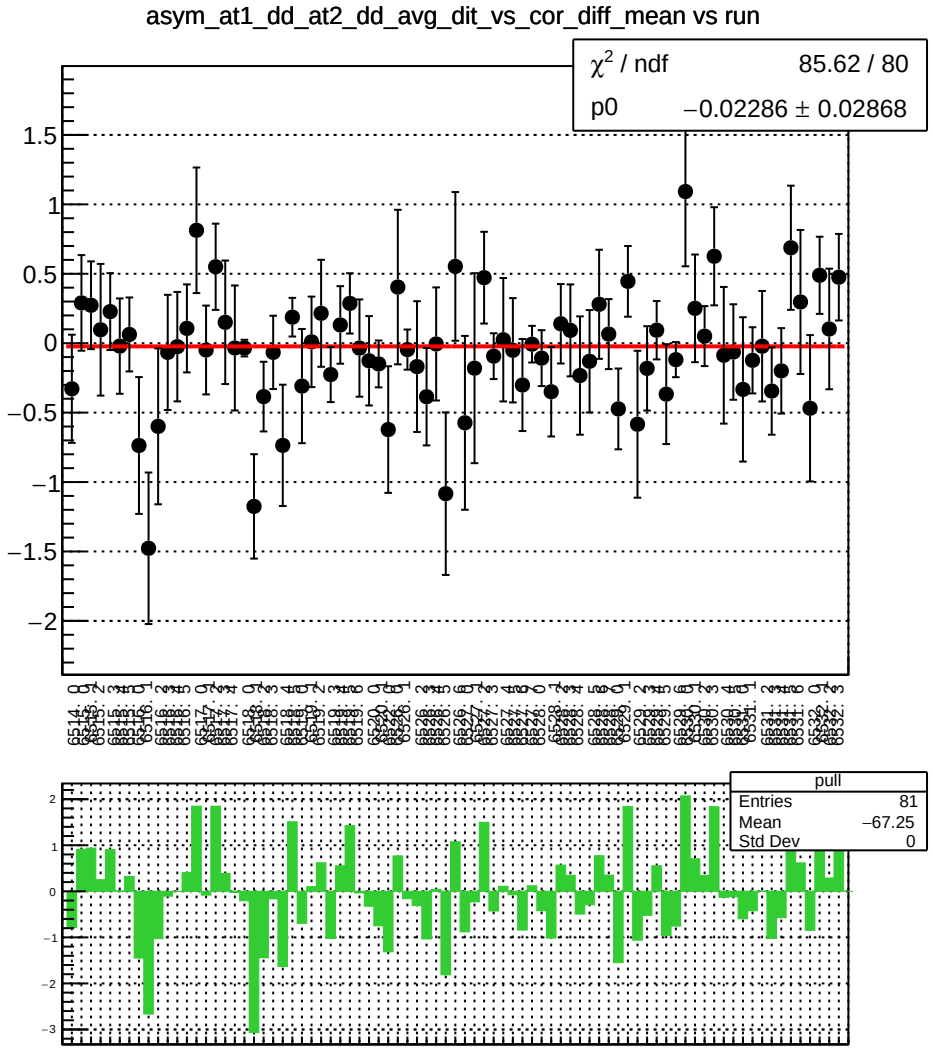

asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 71.12 / 80
p0 3069 ± 1631
pull
Entries 81
Mean −209.3
Std Dev 0

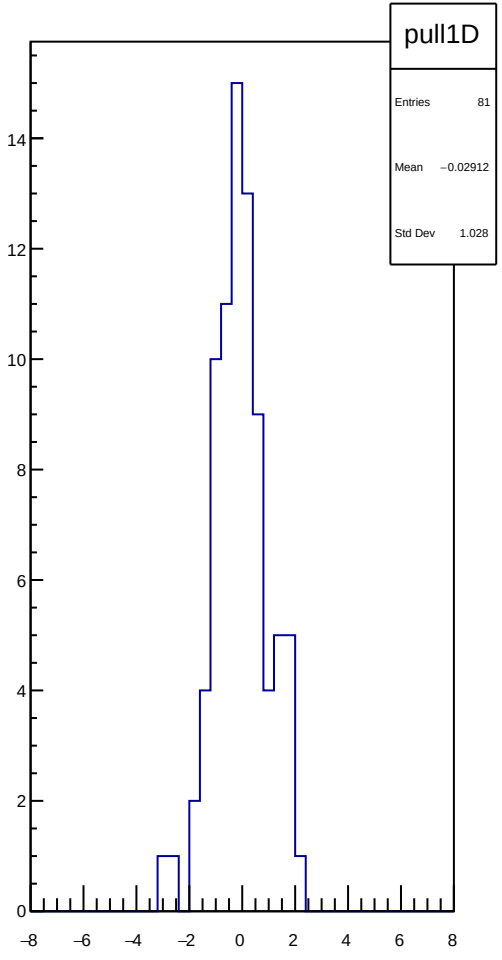

pull1D
Entries 81
Mean −0.0162
Std Dev 0.9369

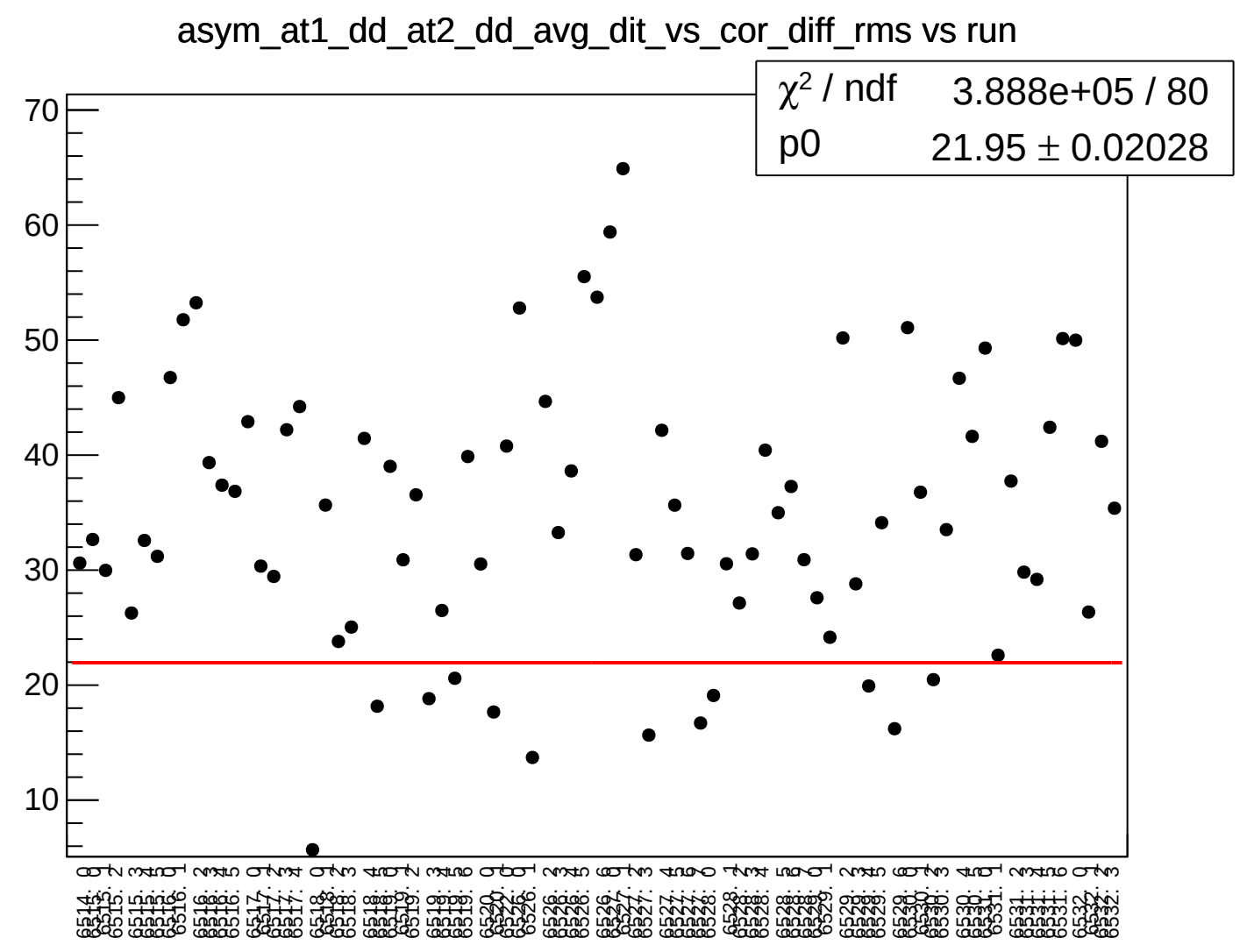

asym_at1_dd_at2_dd_avg_rms vs run
χ^2 / ndf 917.6 / 80
p0 1441 ± 1.154
1540
1520
1500
1480
1460
1440
1420
1400
1380
1360
1340

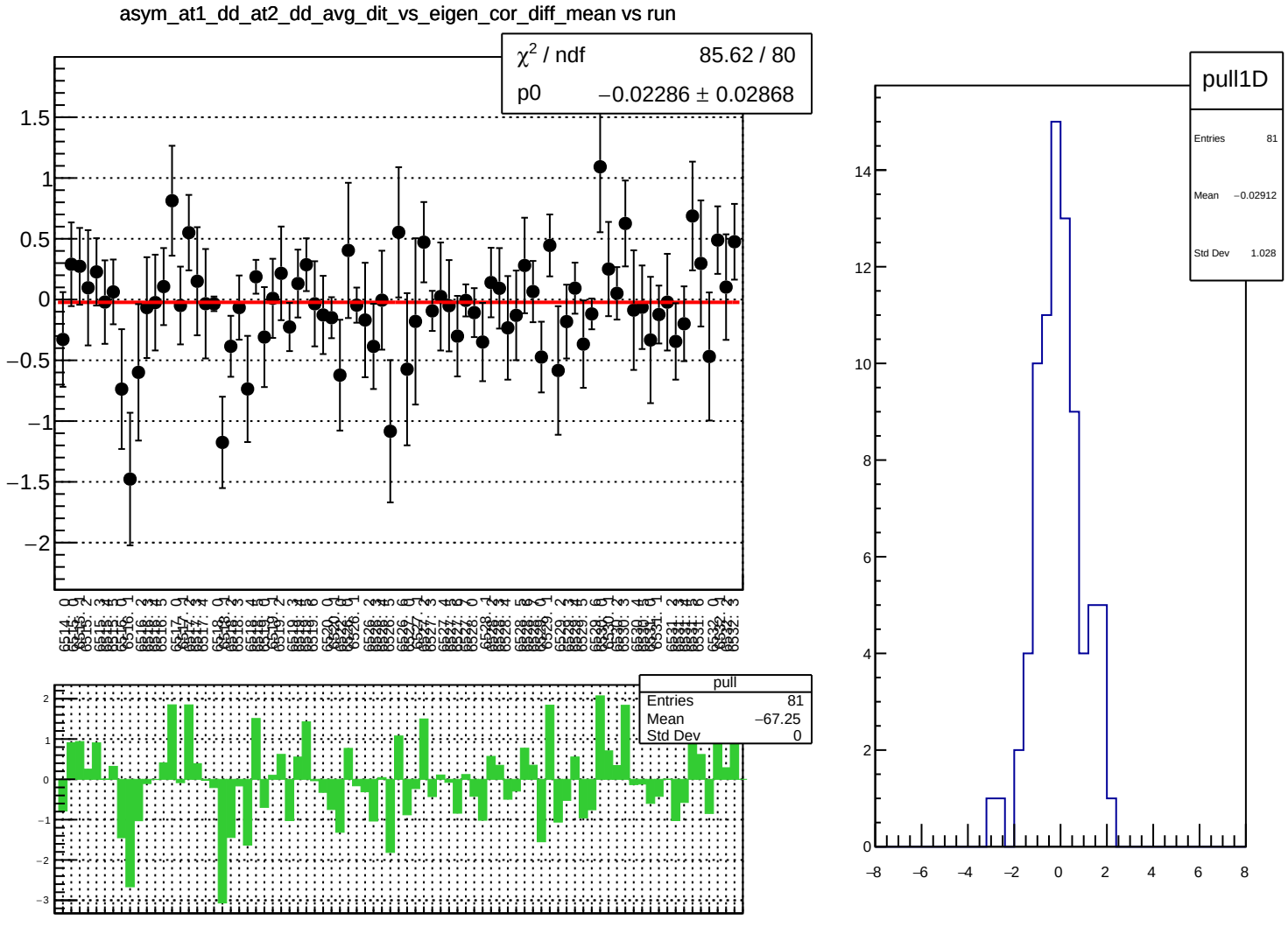

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 91.66 / 80
p0 2.318e−14 ± 2.017e−14
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
pull
Entries 81
Mean 79.54
Std Dev 0
pull1D
Entries 81
Mean 0.1167
Std Dev 1.057

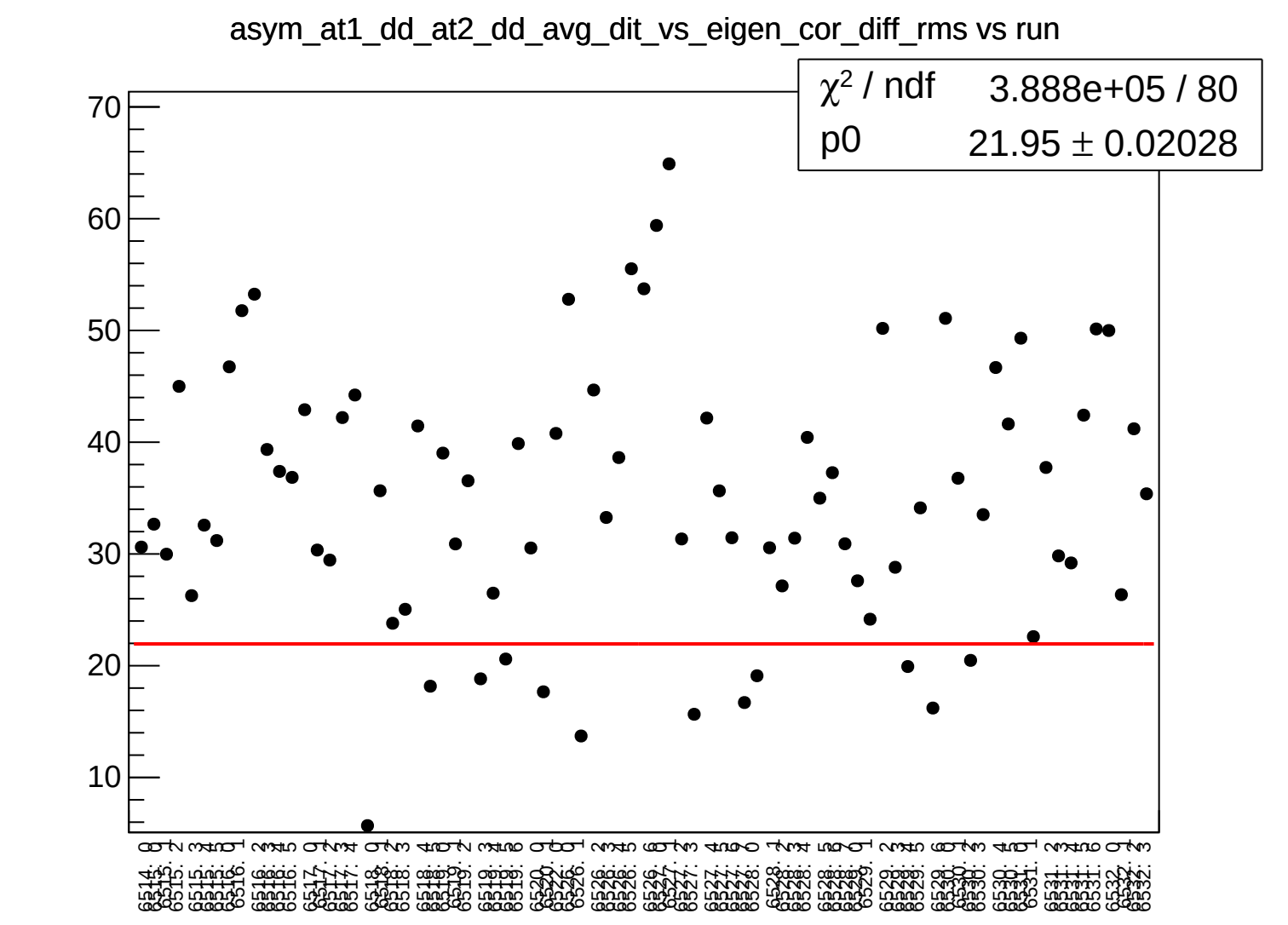

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.2e+05 / 80
p0 1.228e−11 ± 1.426e−14
0.5
0.4
0.3
0.2
0.1
0

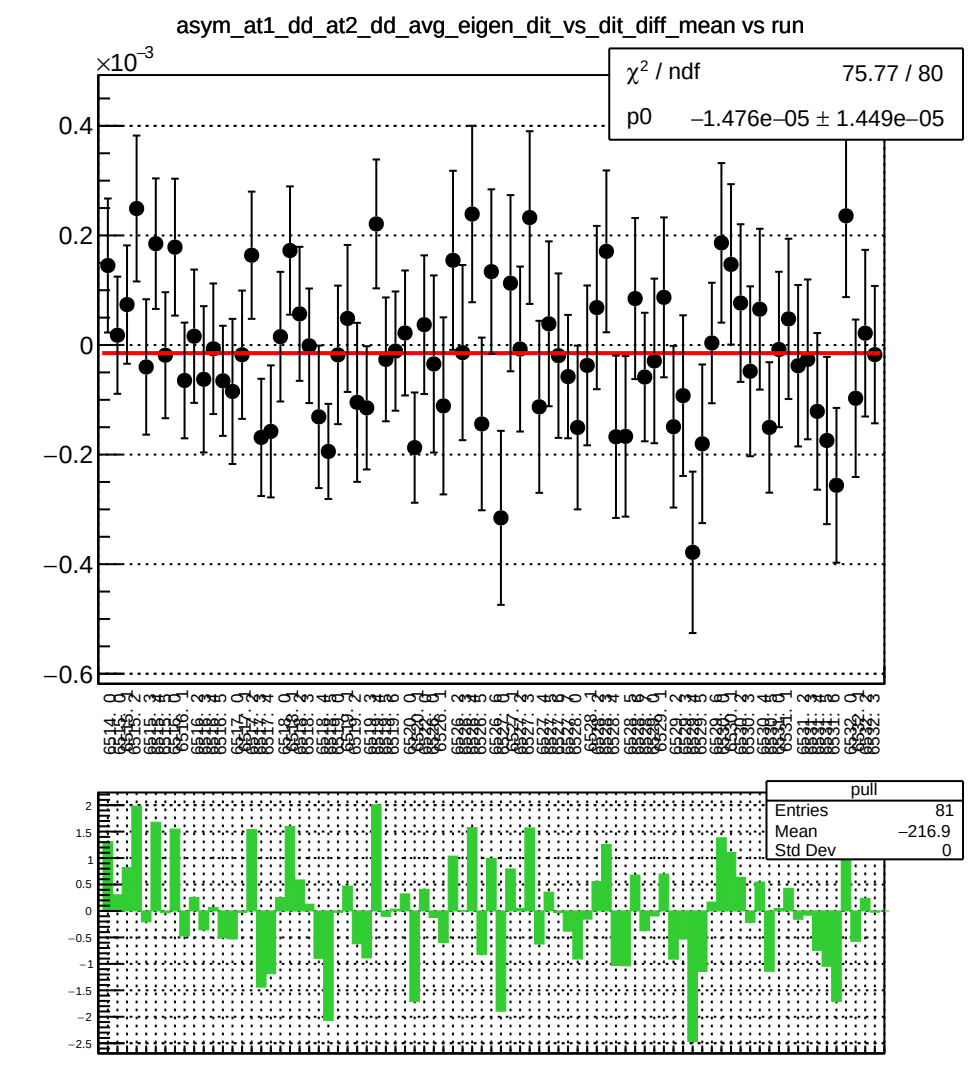

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 85.62 / 80
p0 −0.02286 ± 0.02868
pull
Entries 81
Mean −67.25
Std Dev 0

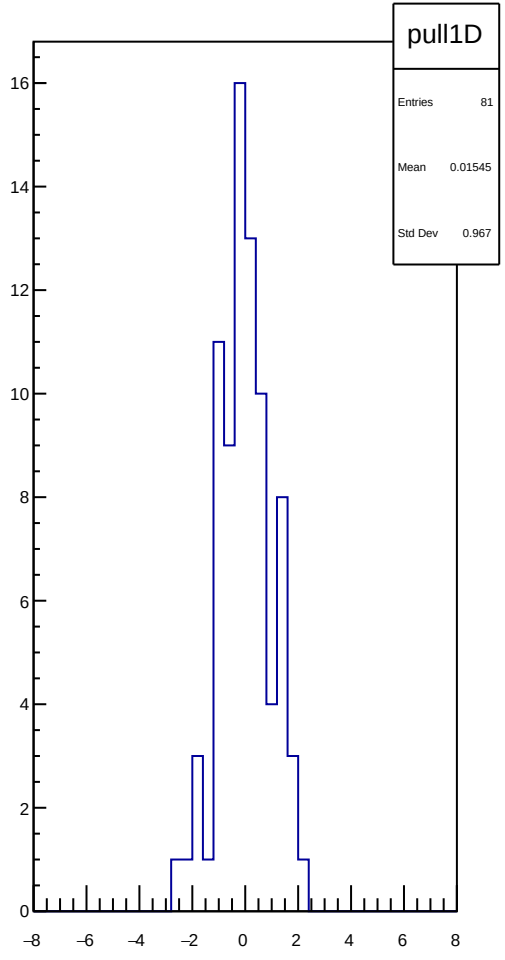

pull1D
Entries 81
Mean −0.02912
Std Dev 1.028

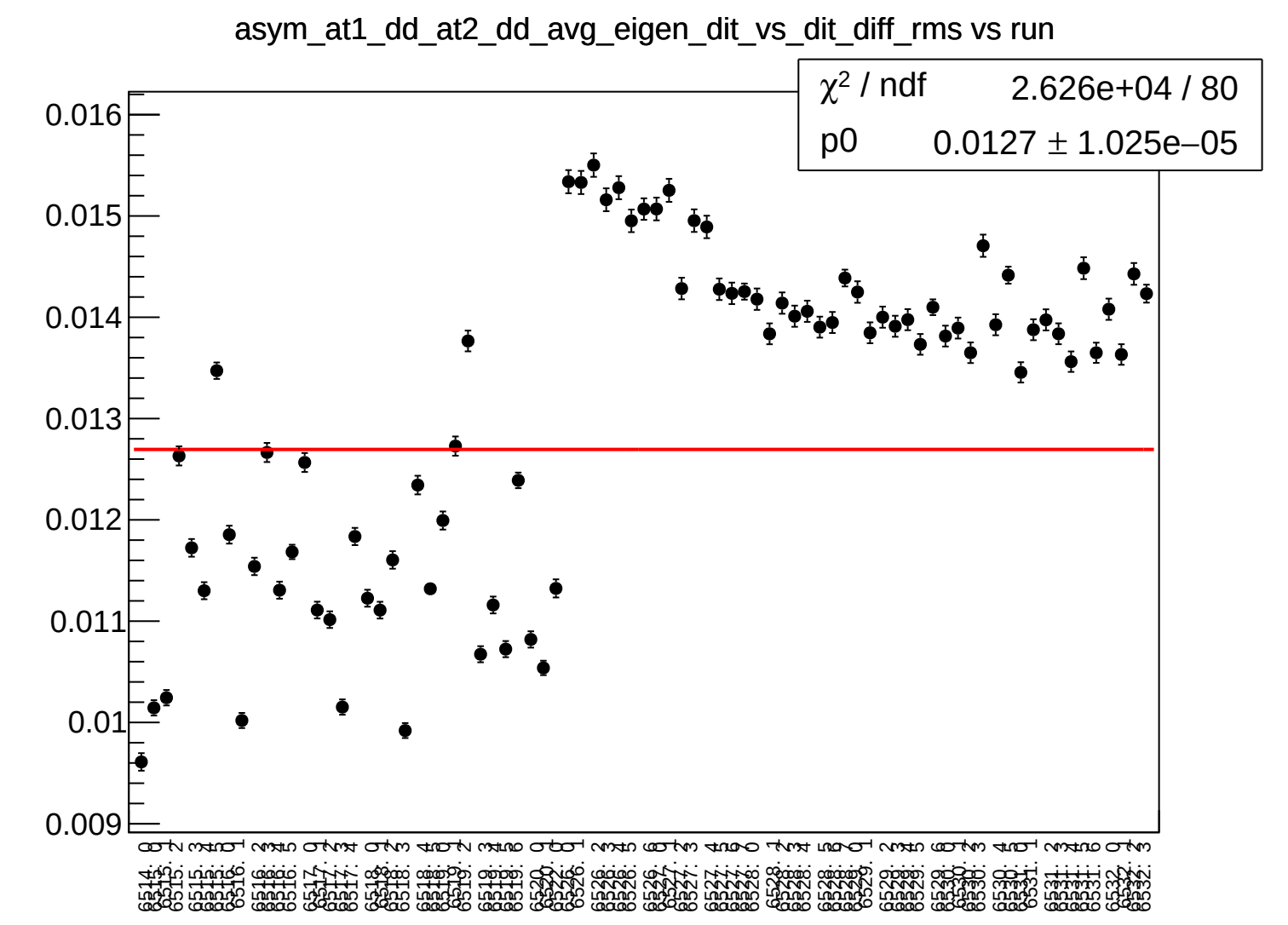

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.888e+05 / 80
p0 21.95 ± 0.02028
70
60
50
40
30
20
10

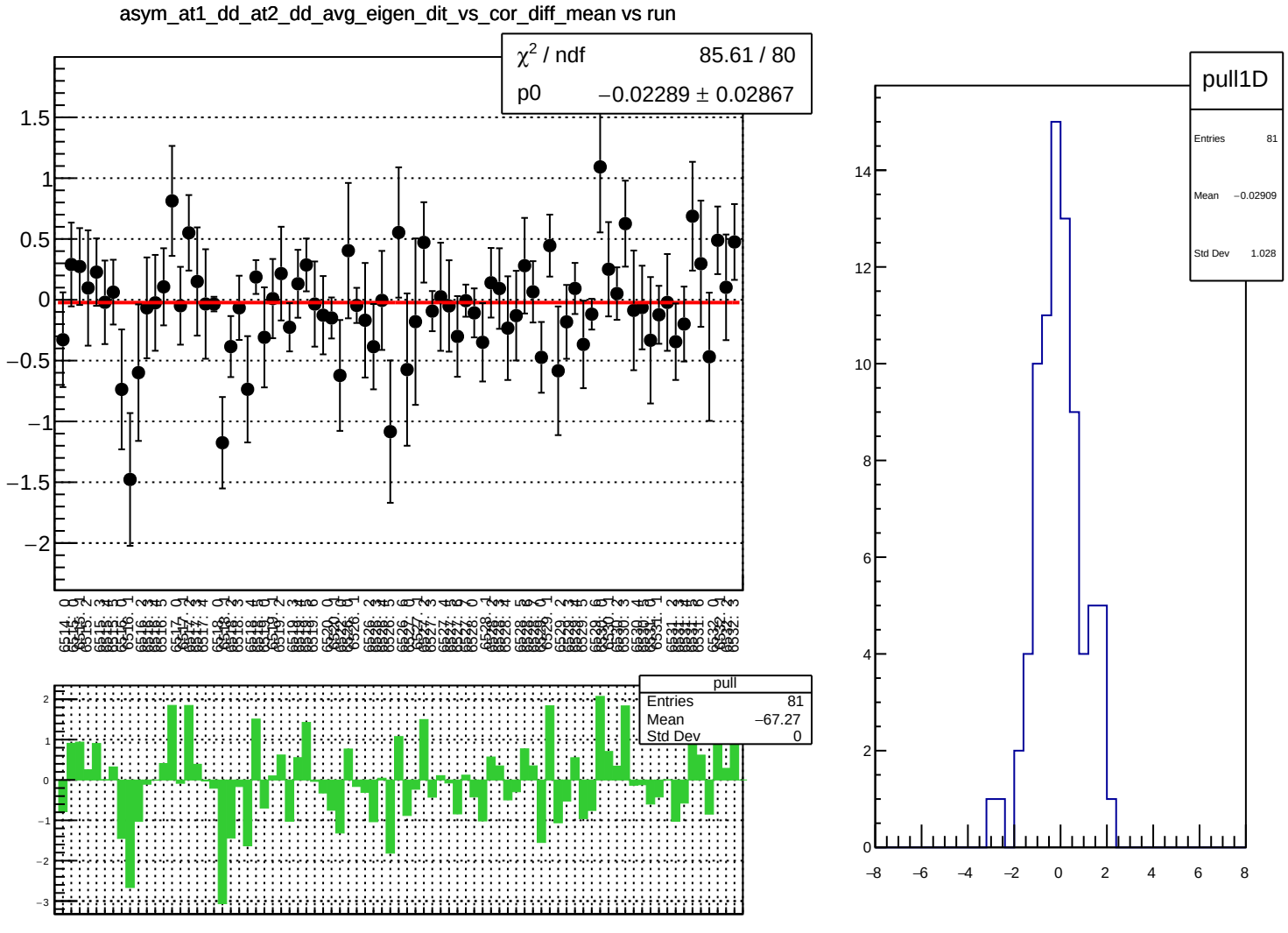

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.62 / 80
p0 −0.02286 ± 0.02868
pull
Entries 81
Mean −67.25
Std Dev 0
pull1D
Entries 81
Mean −0.02912
Std Dev 1.028

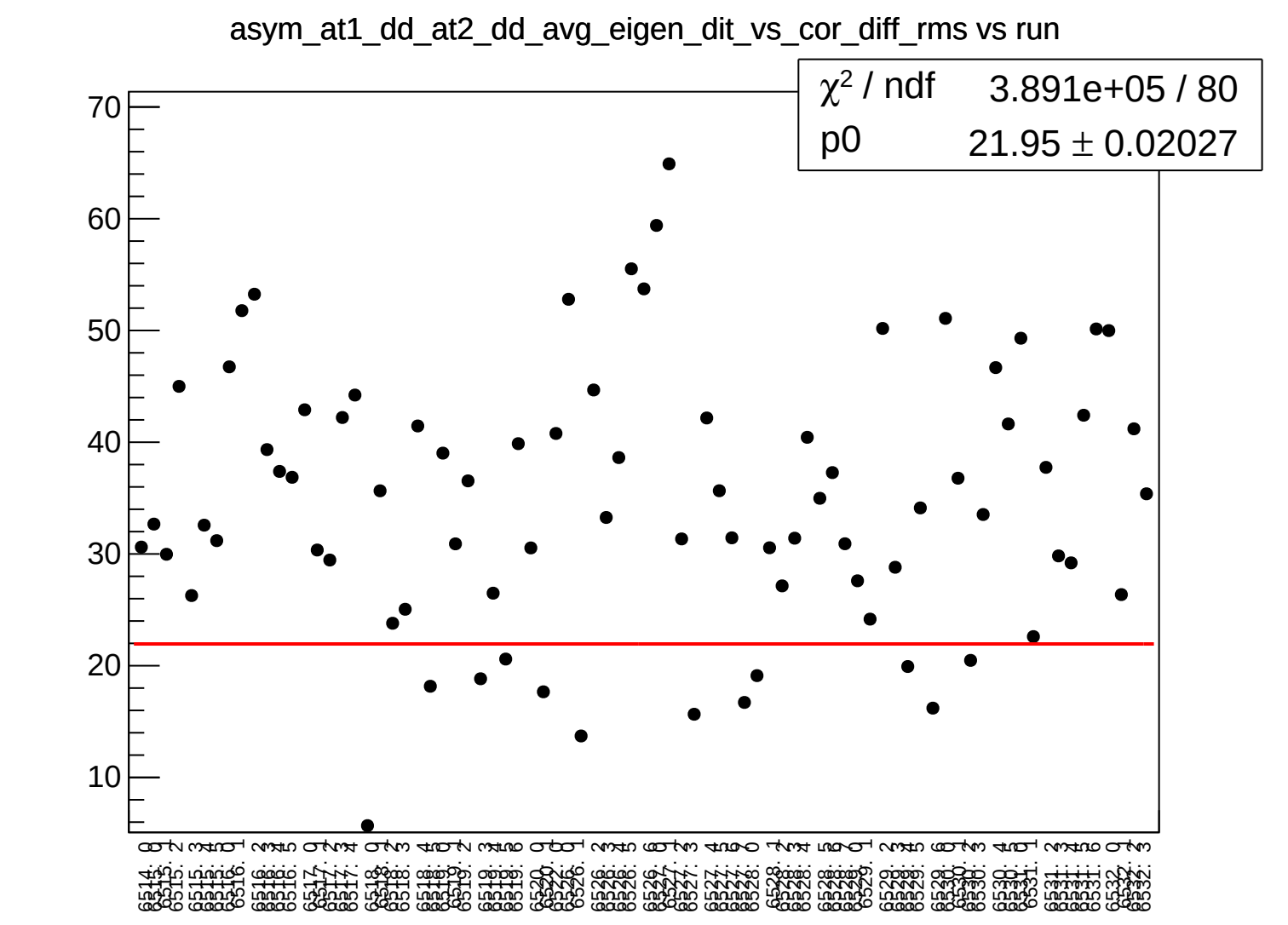

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.888e+05 / 80
p0 21.95 ± 0.02028
70
60
50
40
30
20
10

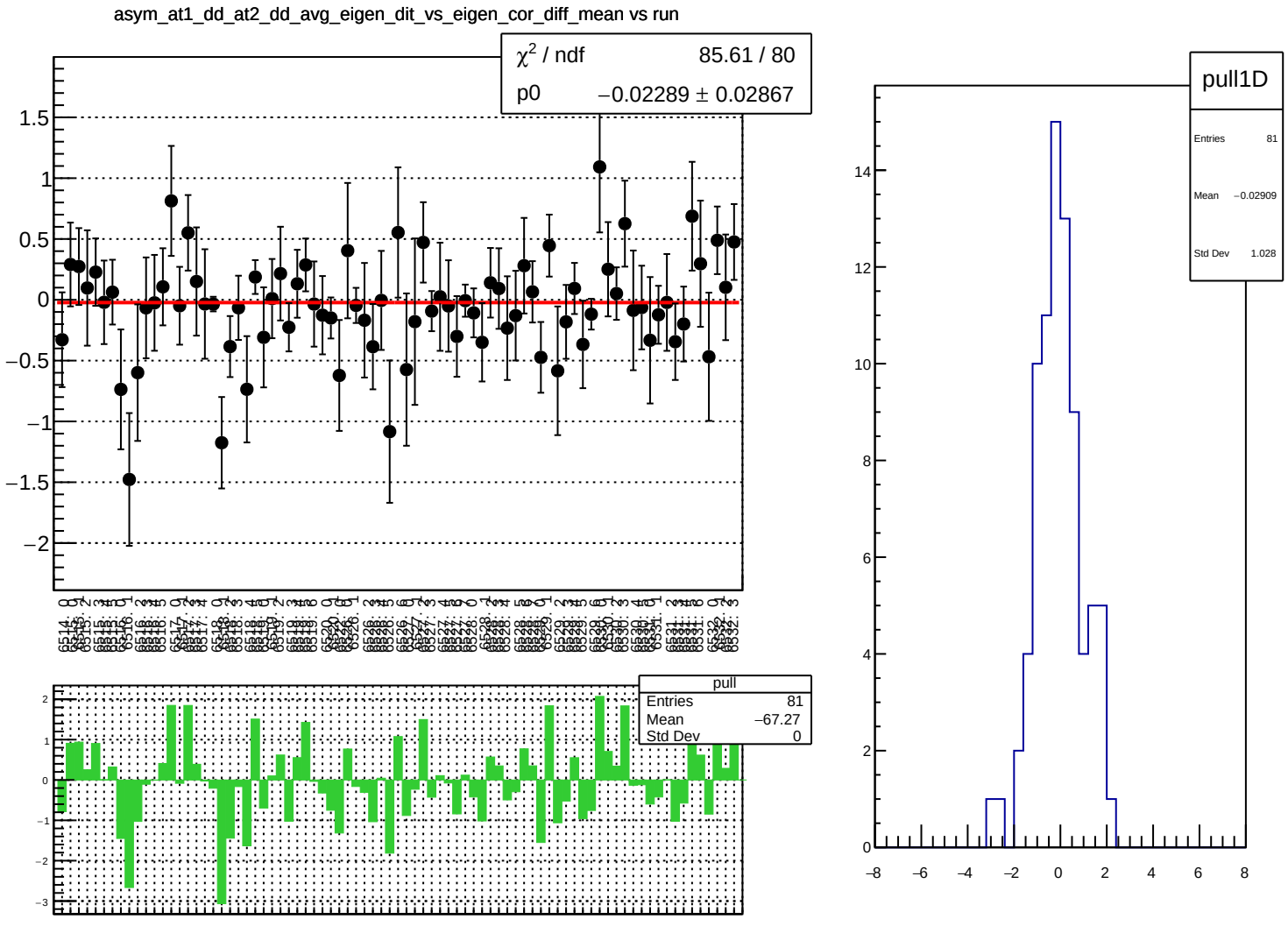

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 75.77 / 80
p0 −1.476e−05 ± 1.449e−05
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 81
Mean −216.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

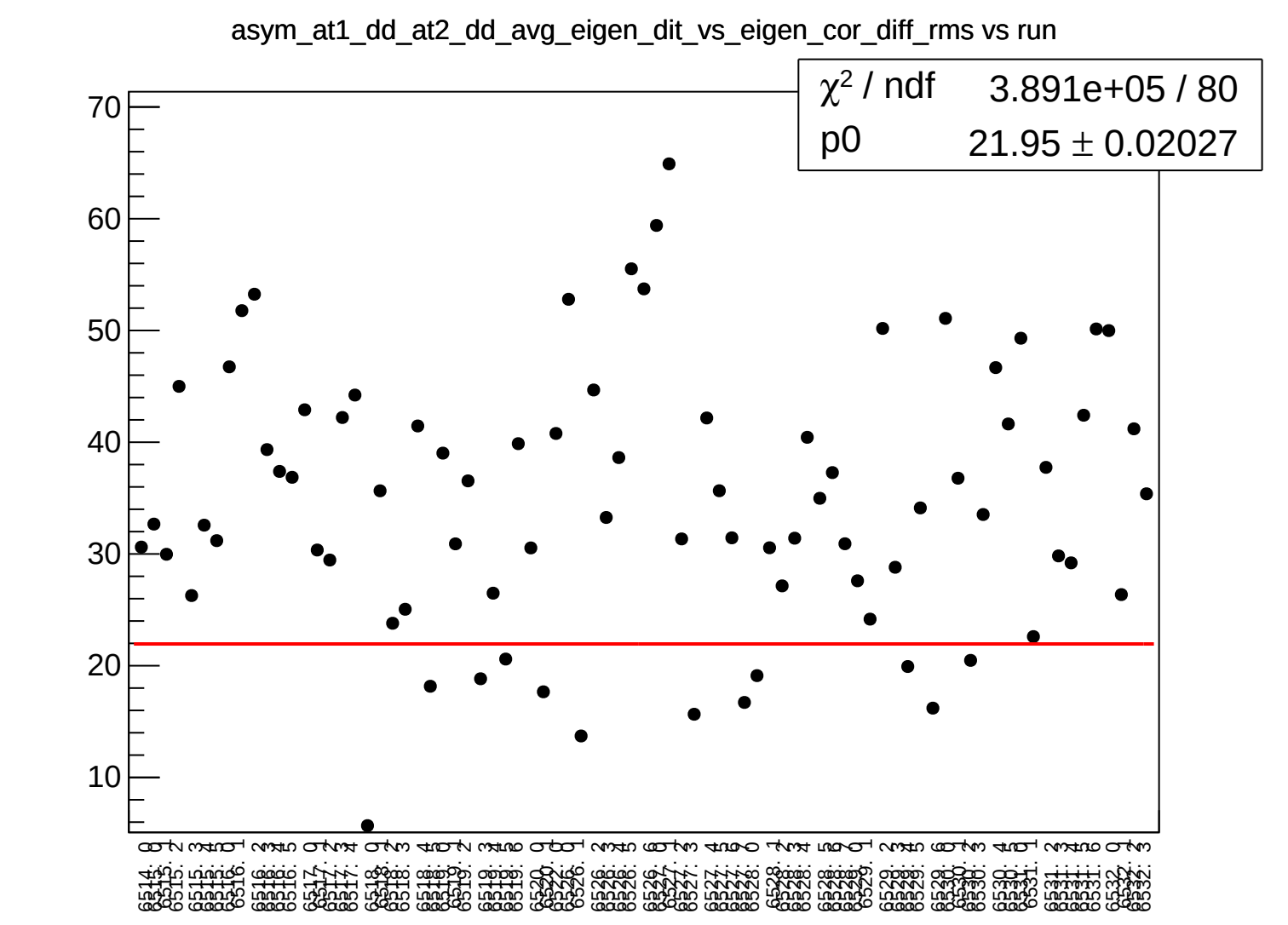

pull1D
Entries 81
Mean 0.01545
Std Dev 0.967
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

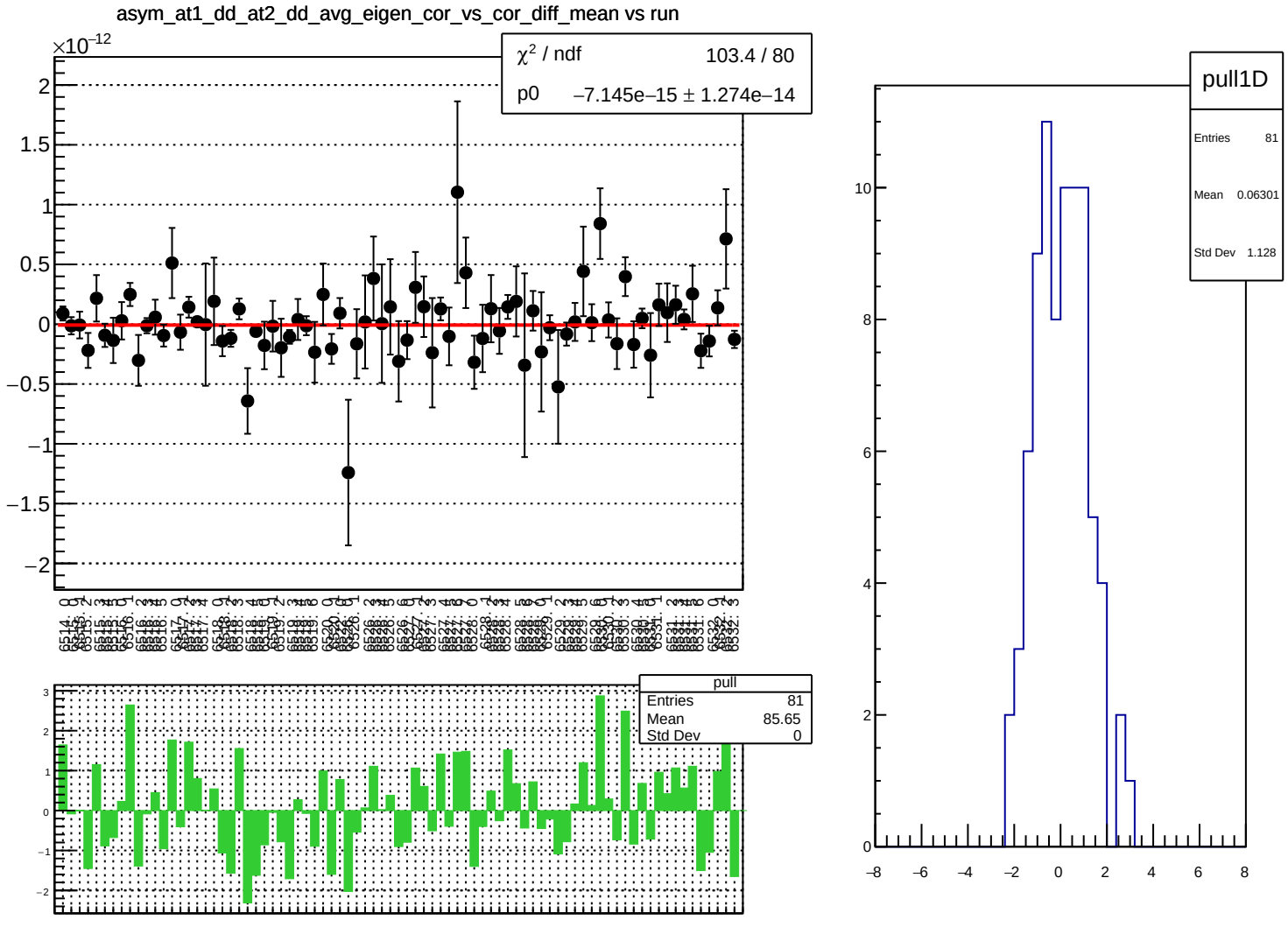

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.626e+04 / 80
p0 0.0127 ± 1.025e−05
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009

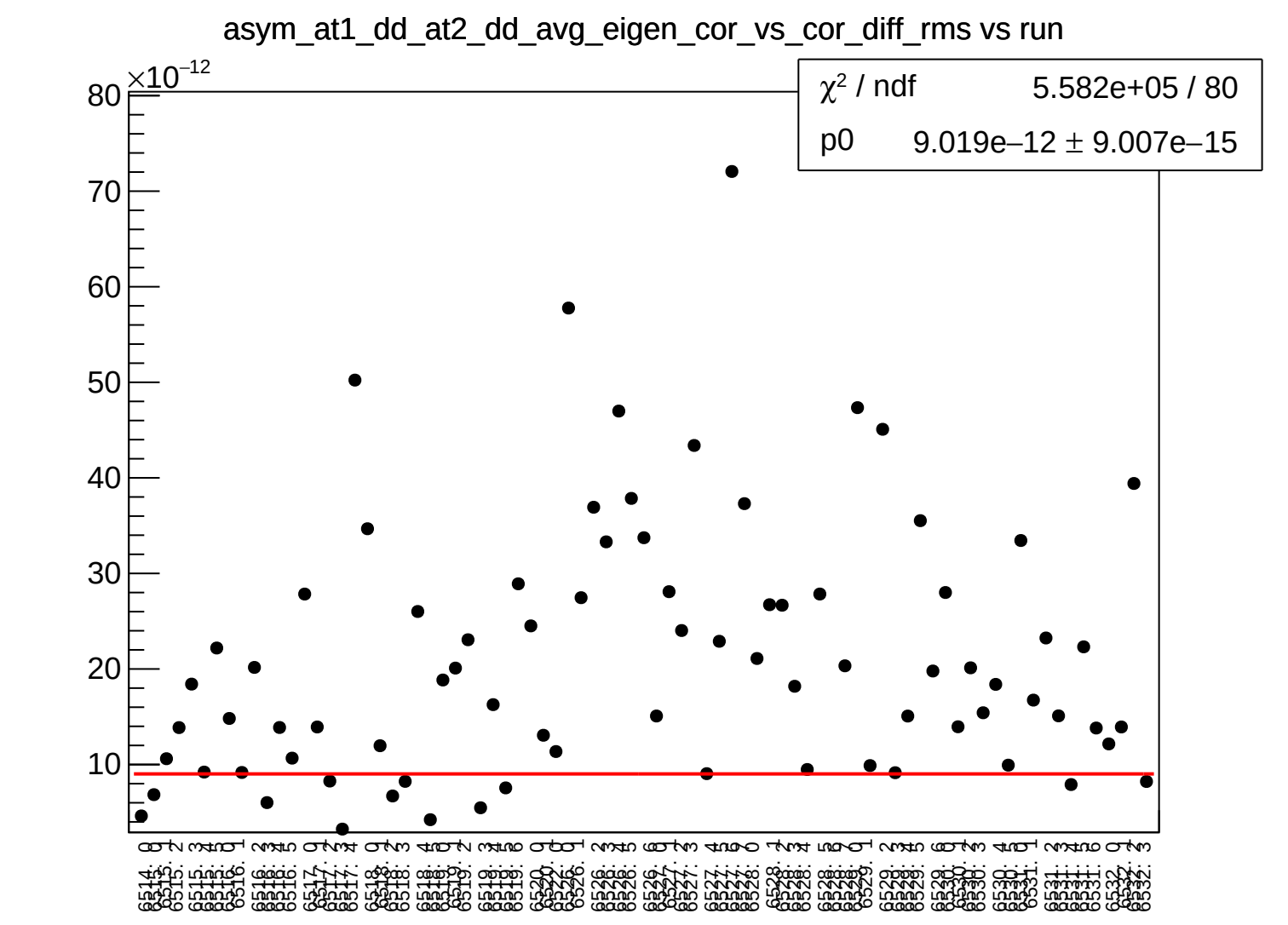

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.61 / 80
p0 −0.02289 ± 0.02867
pull
Entries 81
Mean −67.27
Std Dev 0
pull1D
Entries 81
Mean −0.02909
Std Dev 1.028

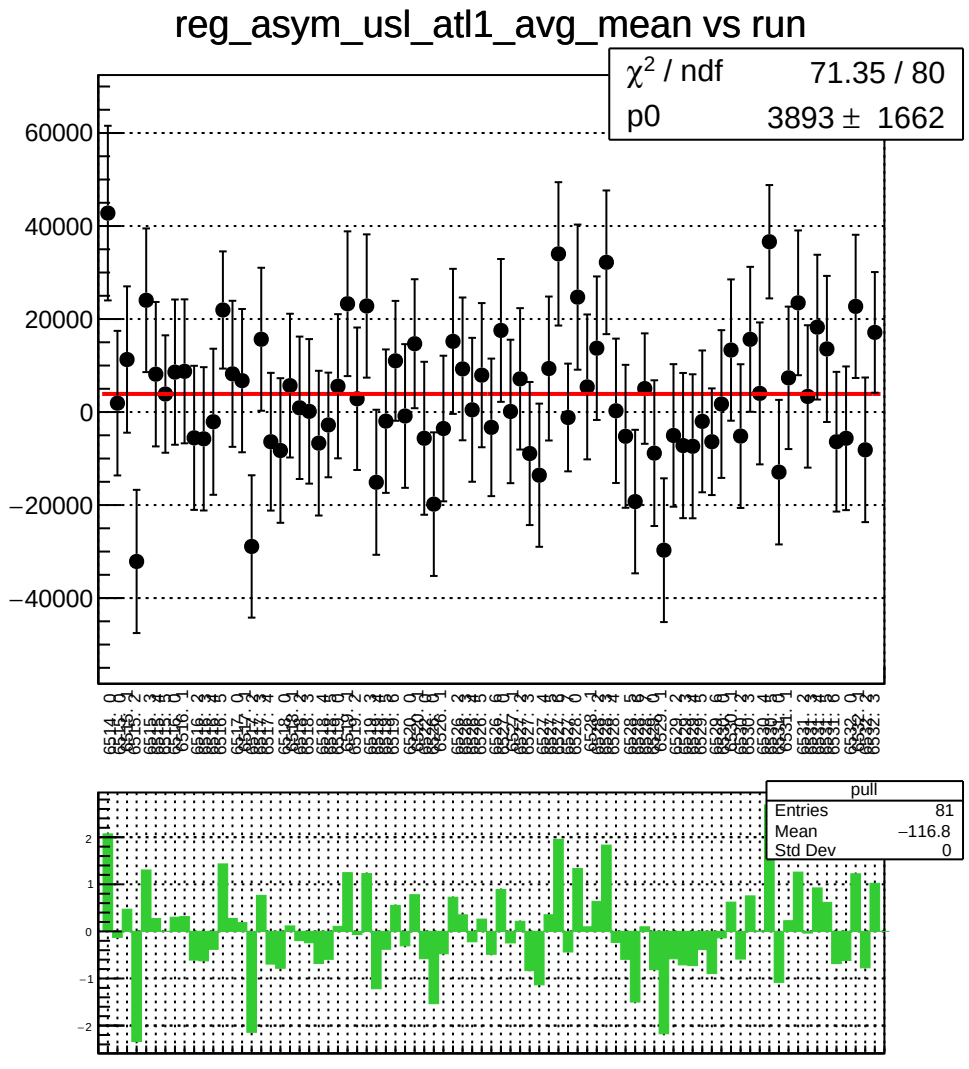

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.891e+05 / 80
p0 21.95 ± 0.02027
70
60
50
40
30
20
10

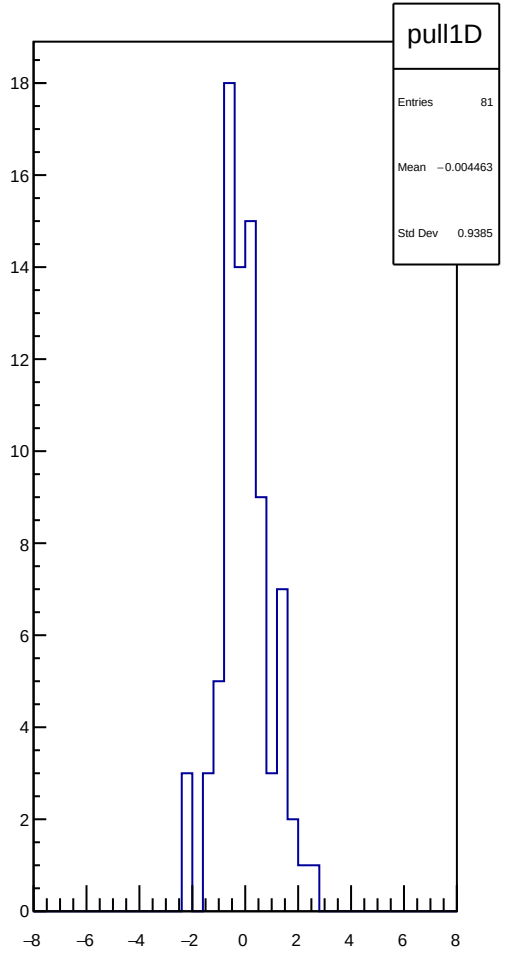

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.61 / 80
p0 −0.02289 ± 0.02867
pull
Entries 81
Mean −67.27
Std Dev 0
pull1D
Entries 81
Mean −0.02909
Std Dev 1.028

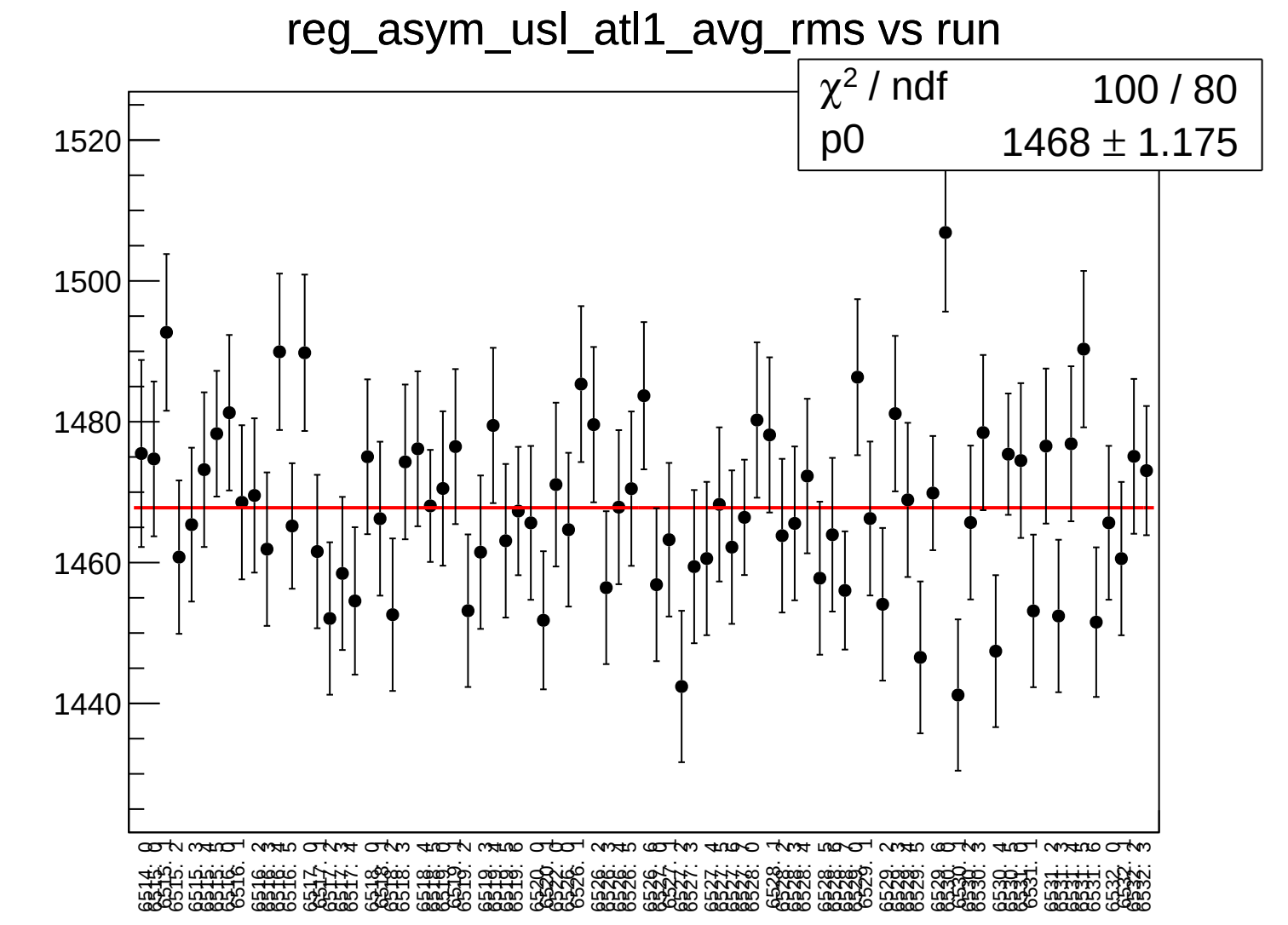

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.891e+05 / 80
p0 21.95 ± 0.02027
70
60
50
40
30
20
10

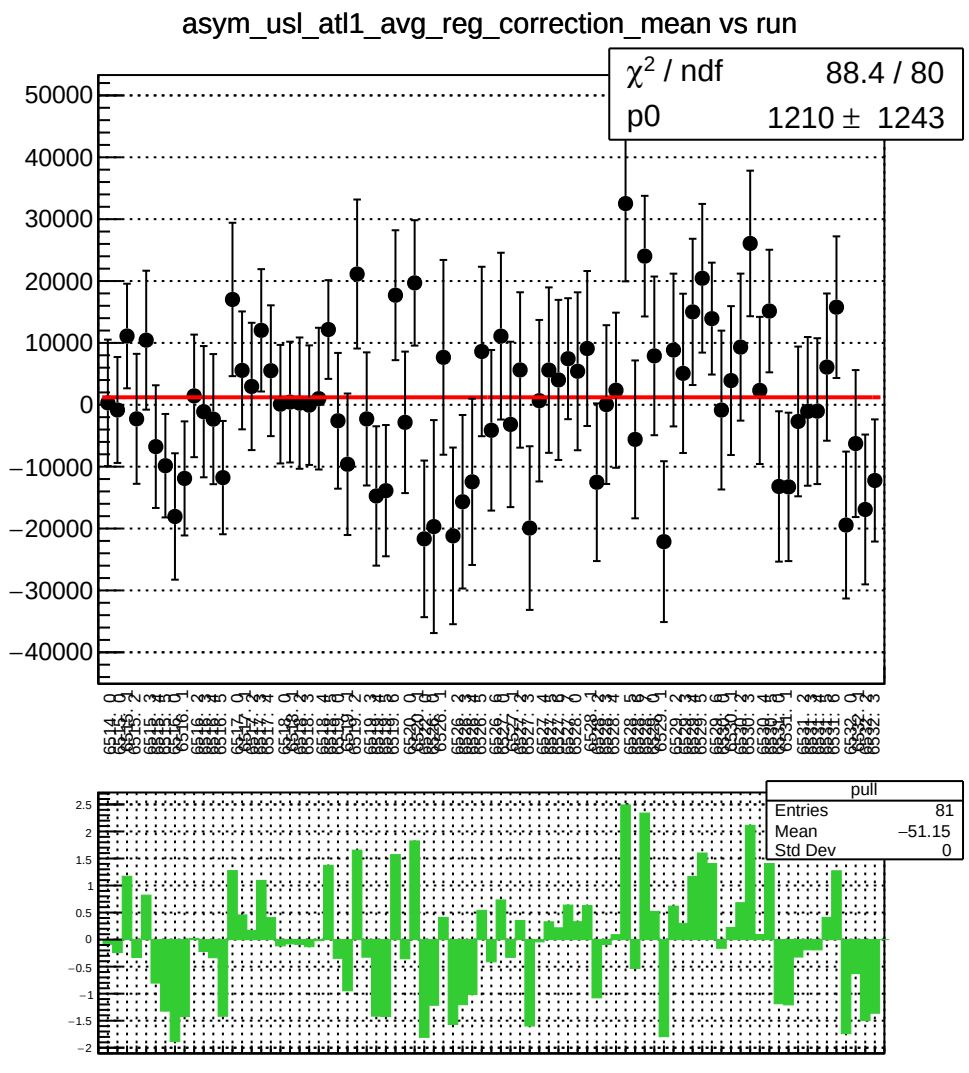

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 103.4 / 80
p0 −7.145e−15 ± 1.274e−14
pull
Entries 81
Mean 85.65
Std Dev 0
pull1D
Entries 81
Mean 0.06301
Std Dev 1.128

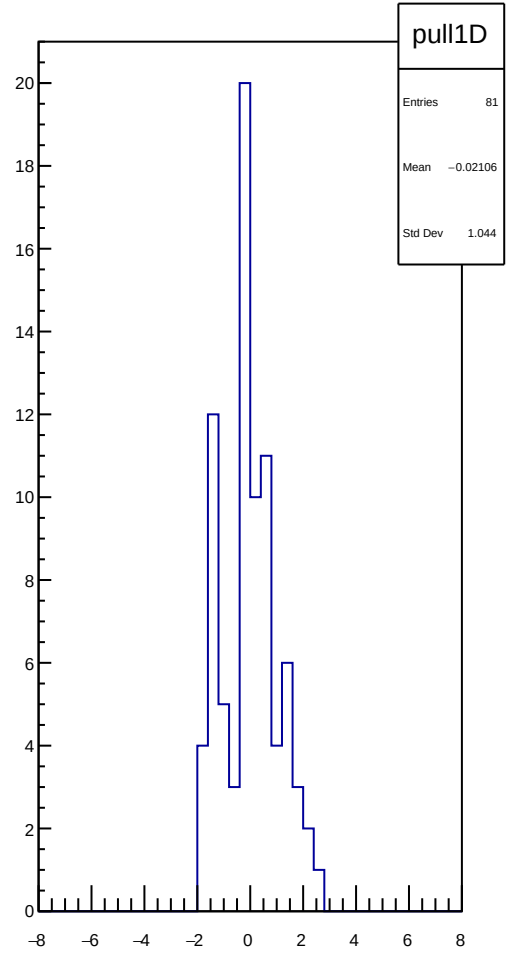

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.582e+05 / 80
p0 9.019e−12 ± 9.007e−15
80
70
60
50
40
30
20
10

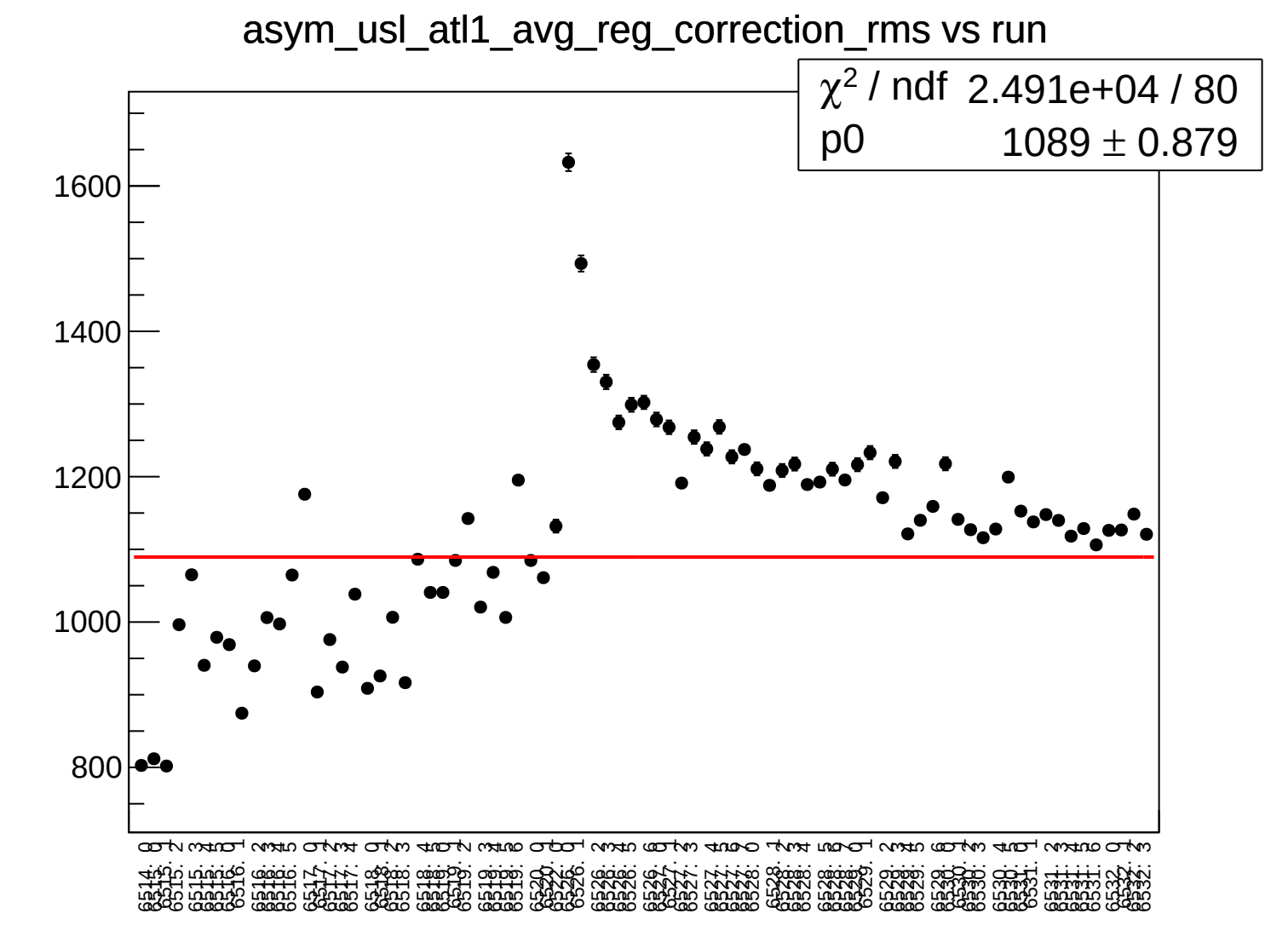

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 71.35 / 80
p0 3893 ± 1662
60000
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −116.8
Std Dev 0
2
1
0
−1
−2

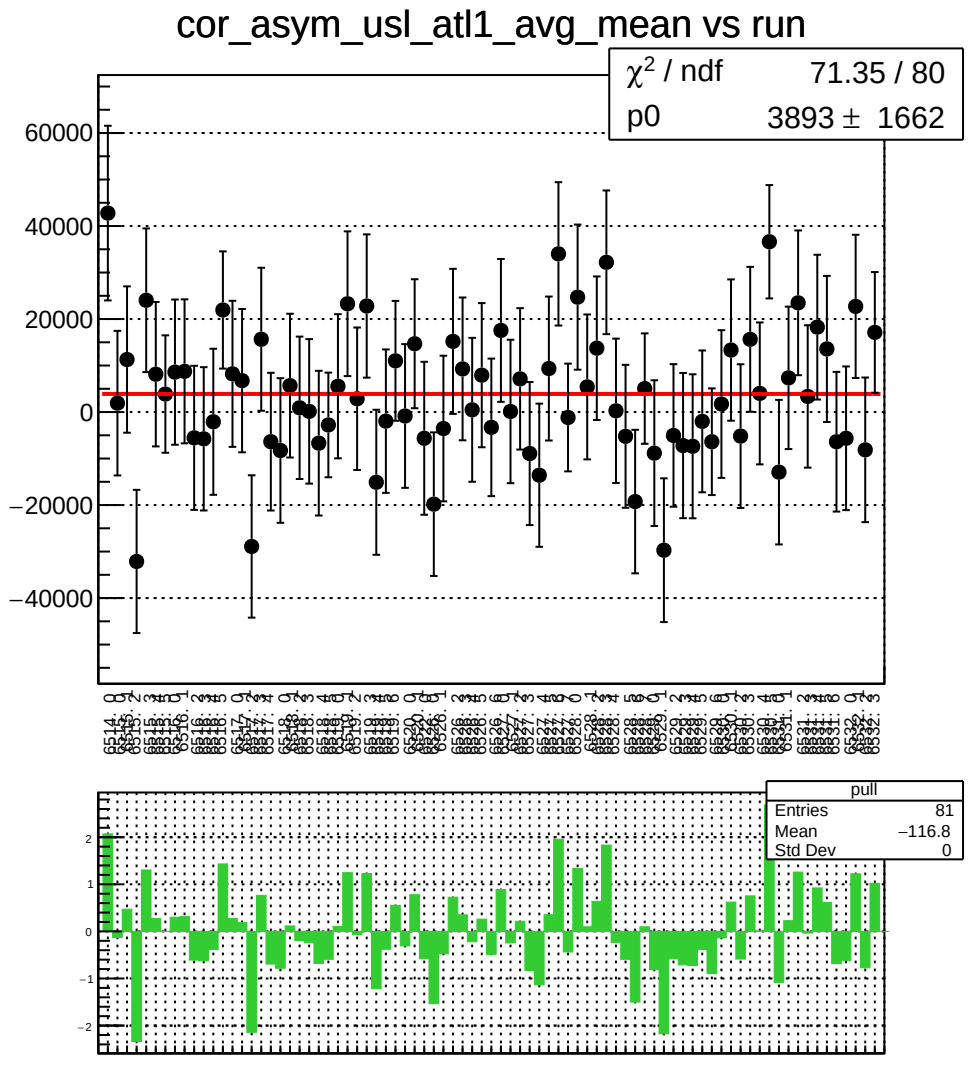

pull1D
Entries 81
Mean −0.004463
Std Dev 0.9385
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

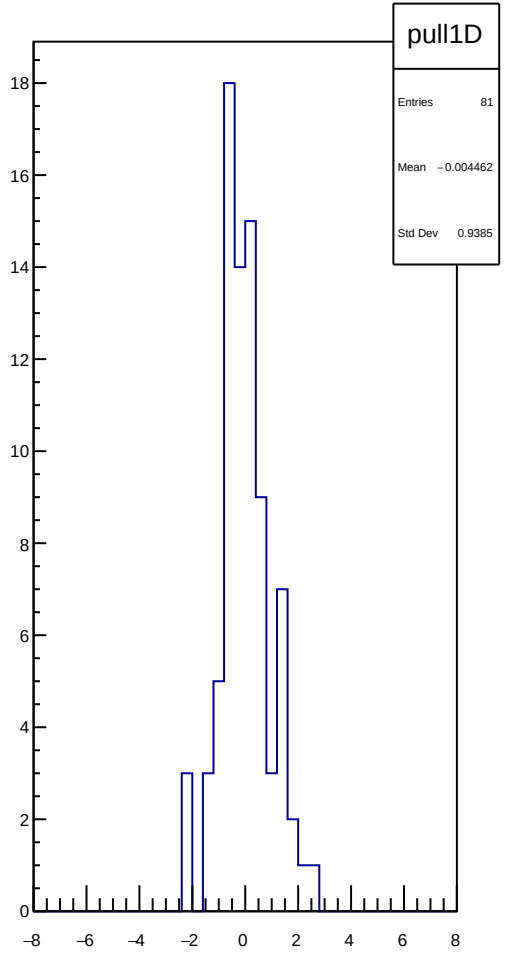

reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 100 / 80
p0 1468 ± 1.175
1520
1500
1480
1460
1440

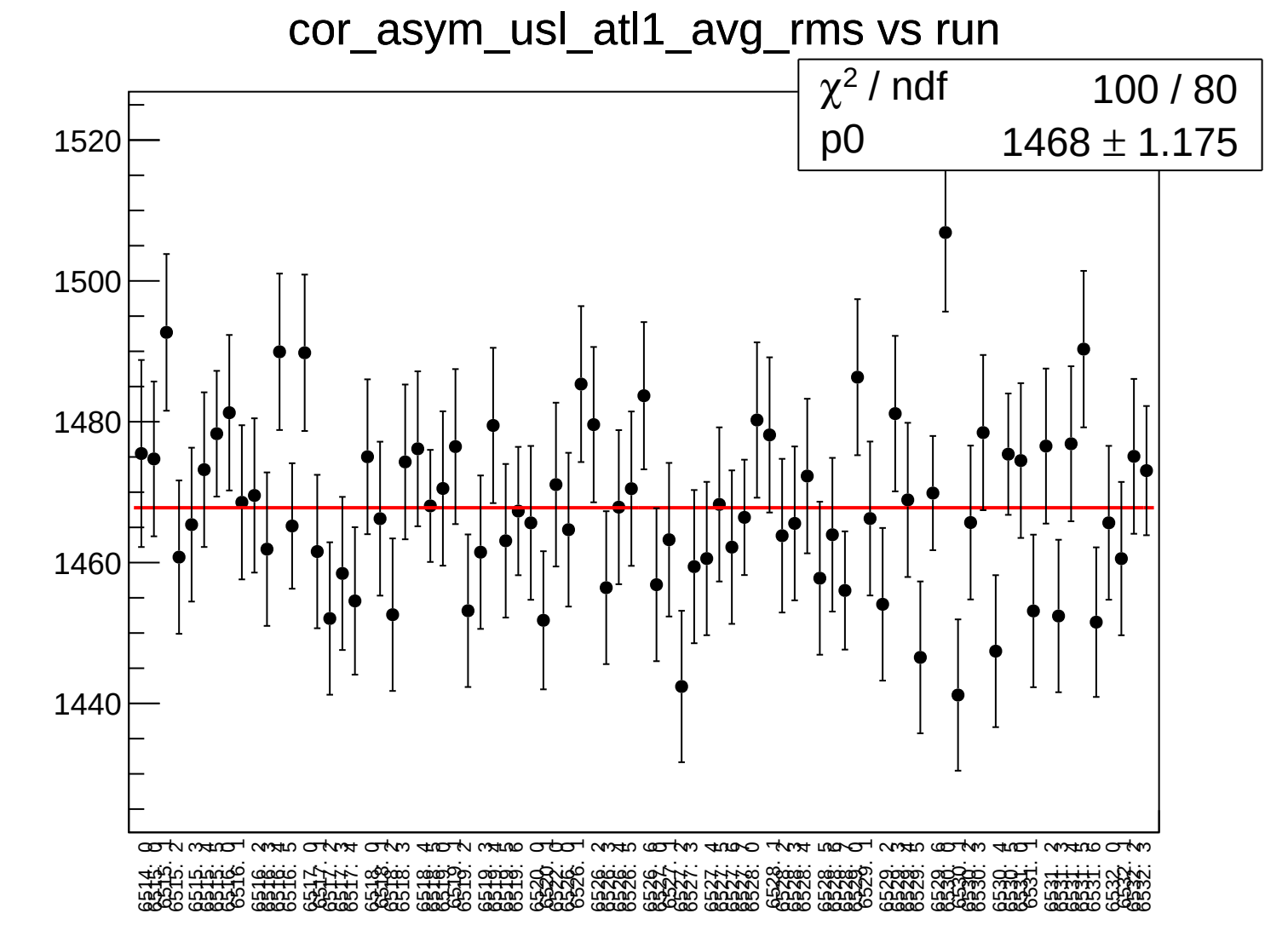

asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 88.4 / 80
p0 1210 ± 1243
pull
Entries 81
Mean −51.15
Std Dev 0

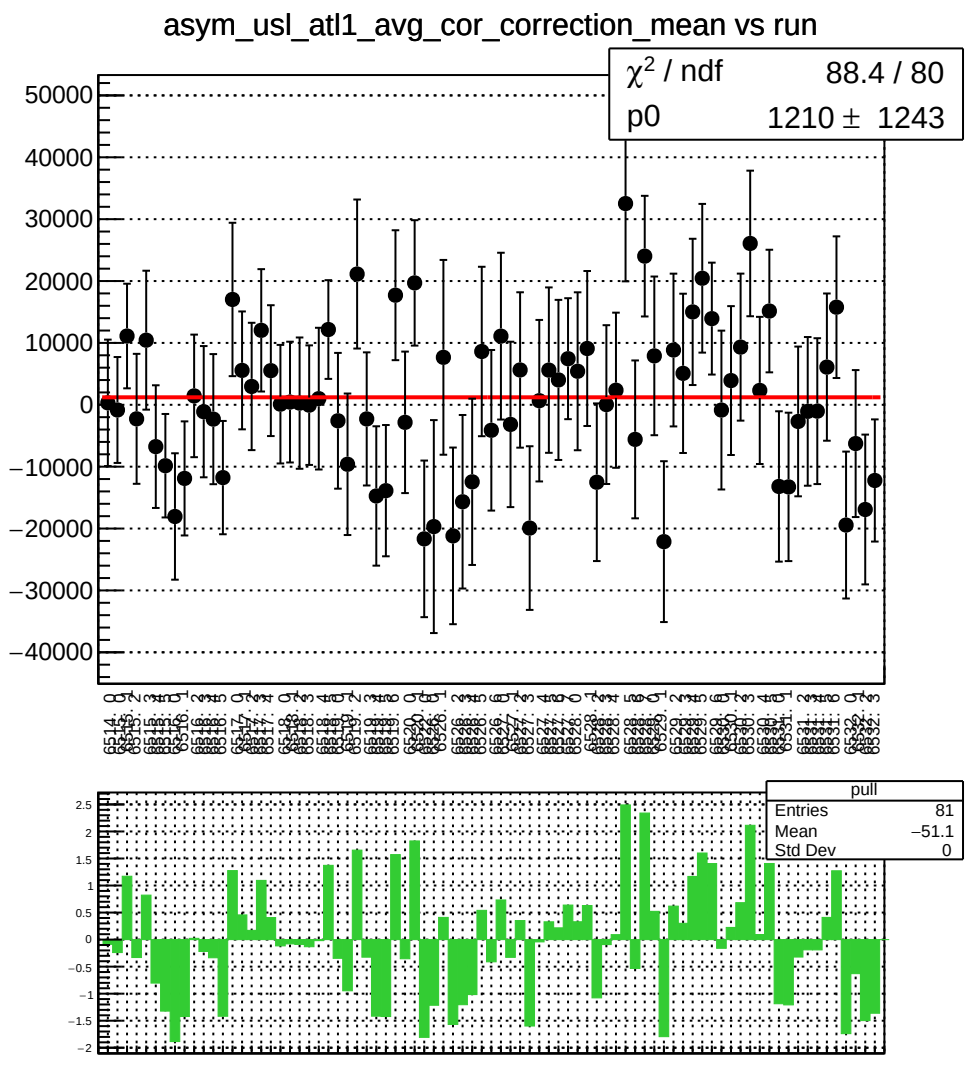

pull1D
Entries 81
Mean −0.02106
Std Dev 1.044

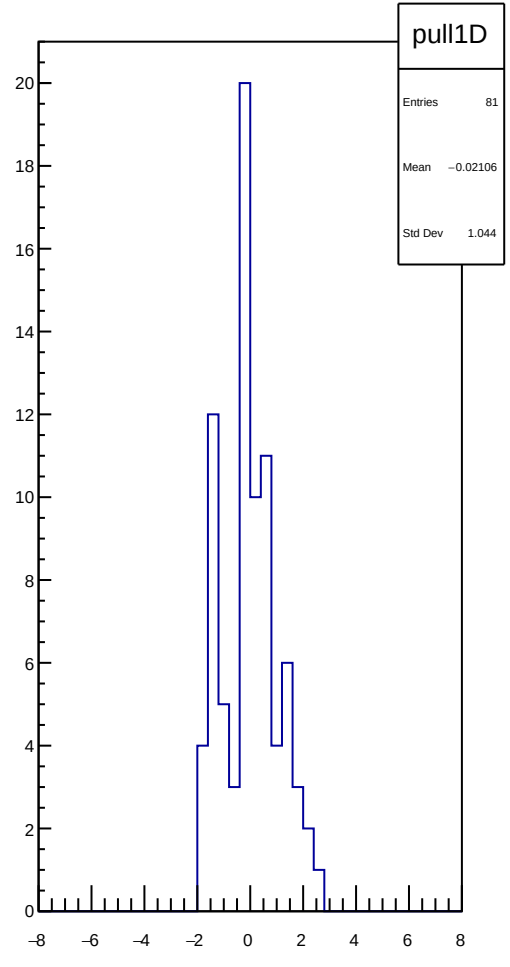

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 2.491e+04 / 80
p0 1089 ± 0.879
1600
1400
1200
1000
800

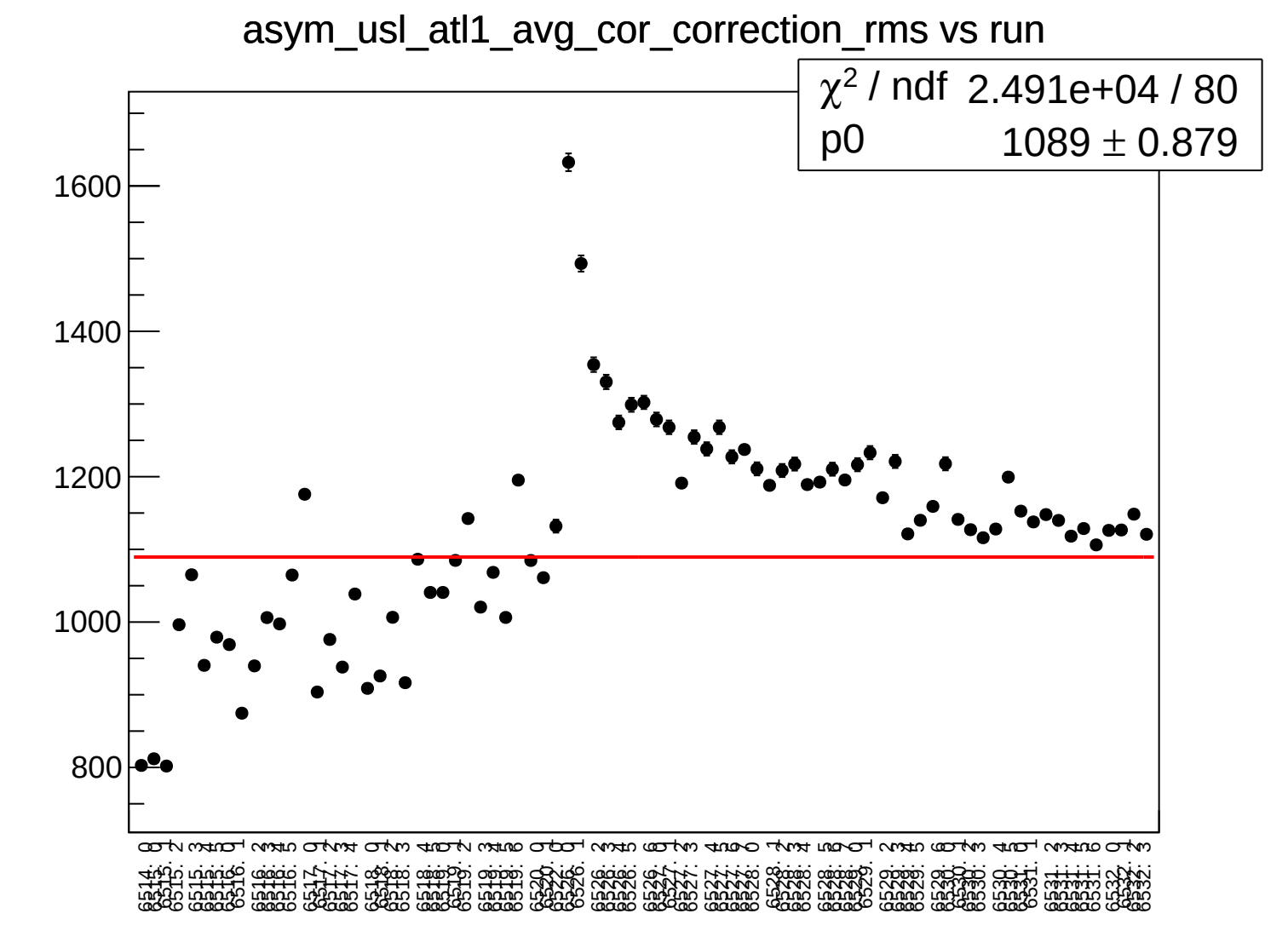

cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 71.35 / 80
p0 3893 ± 1662
60000
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −116.8
Std Dev 0
2
1
0
−1
−2

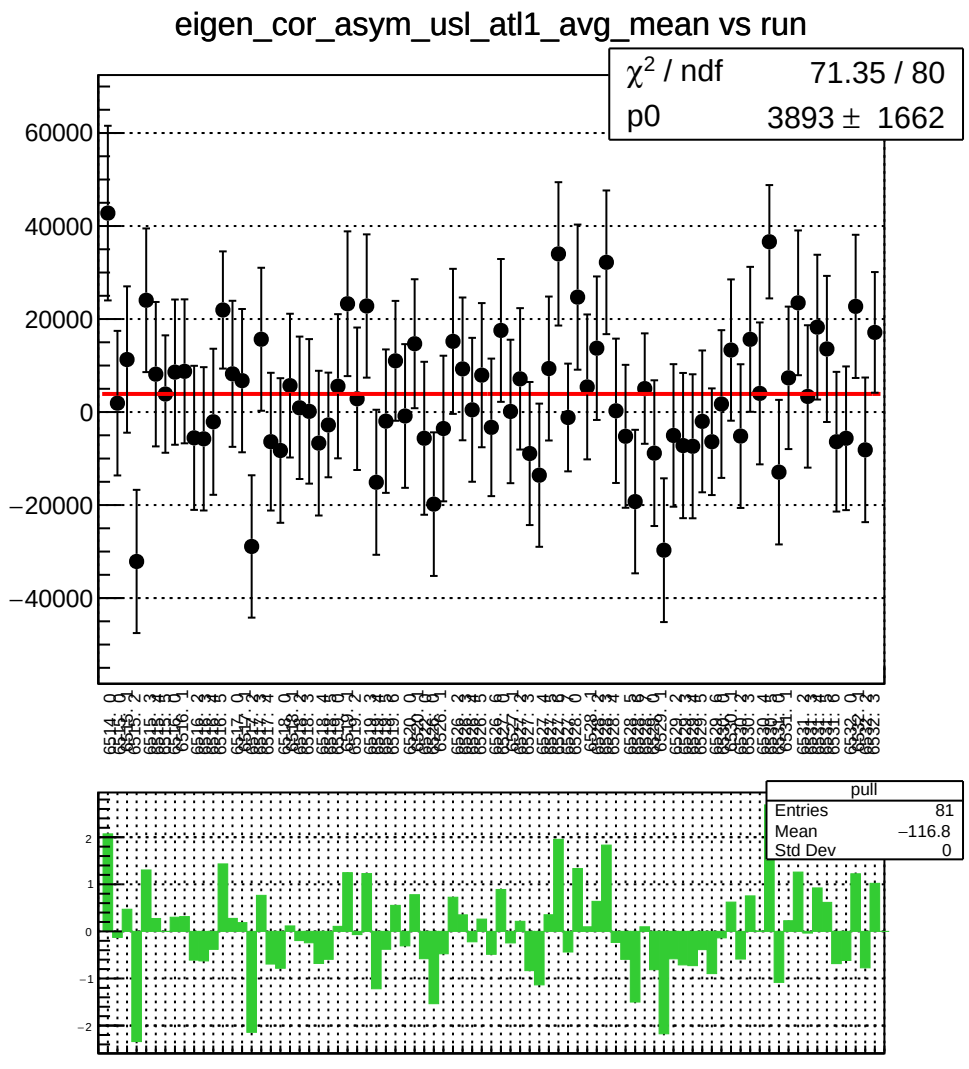

pull1D
Entries 81
Mean −0.004462
Std Dev 0.9385
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

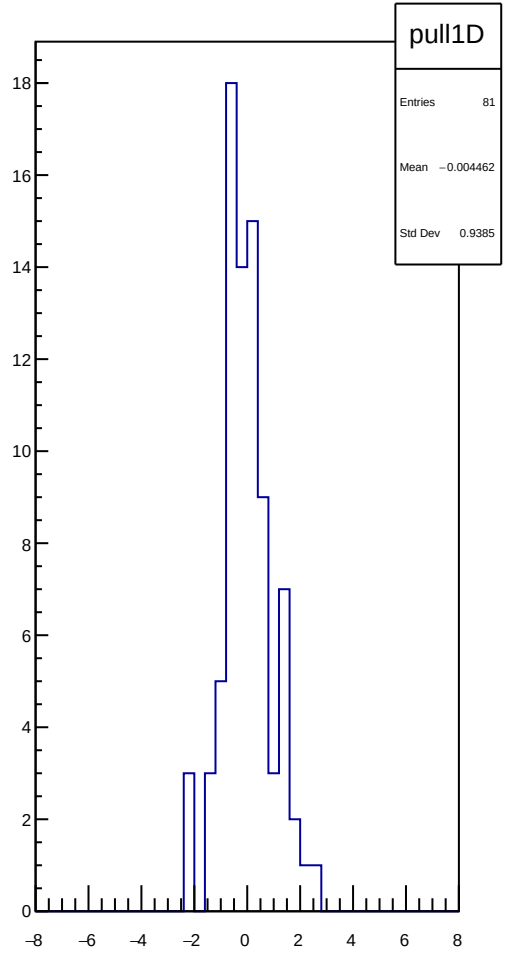

cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 100 / 80
p0 1468 ± 1.175
1520
1500
1480
1460
1440

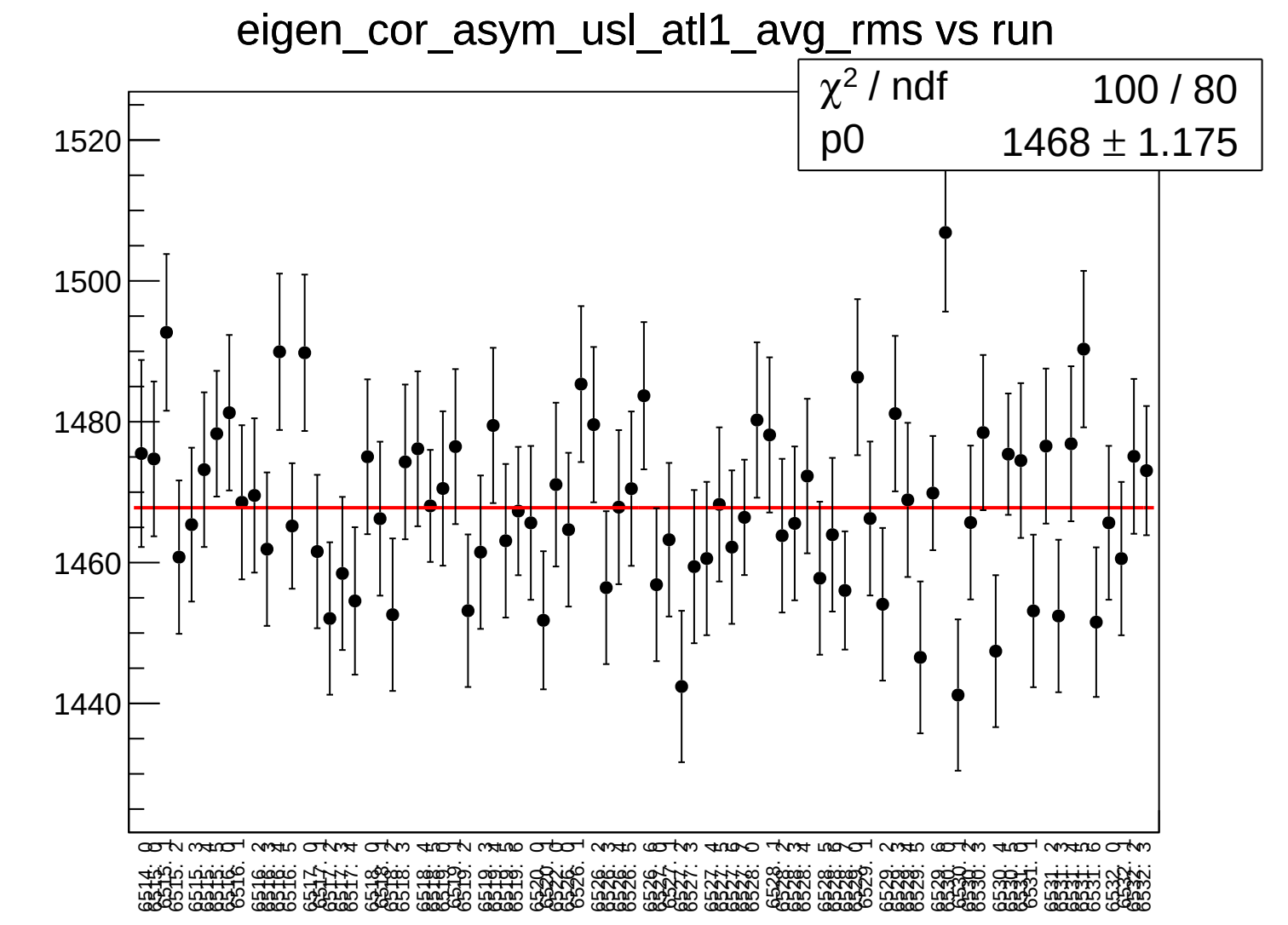

asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 88.4 / 80
p0 1210 ± 1243
pull
Entries 81
Mean −51.1
Std Dev 0

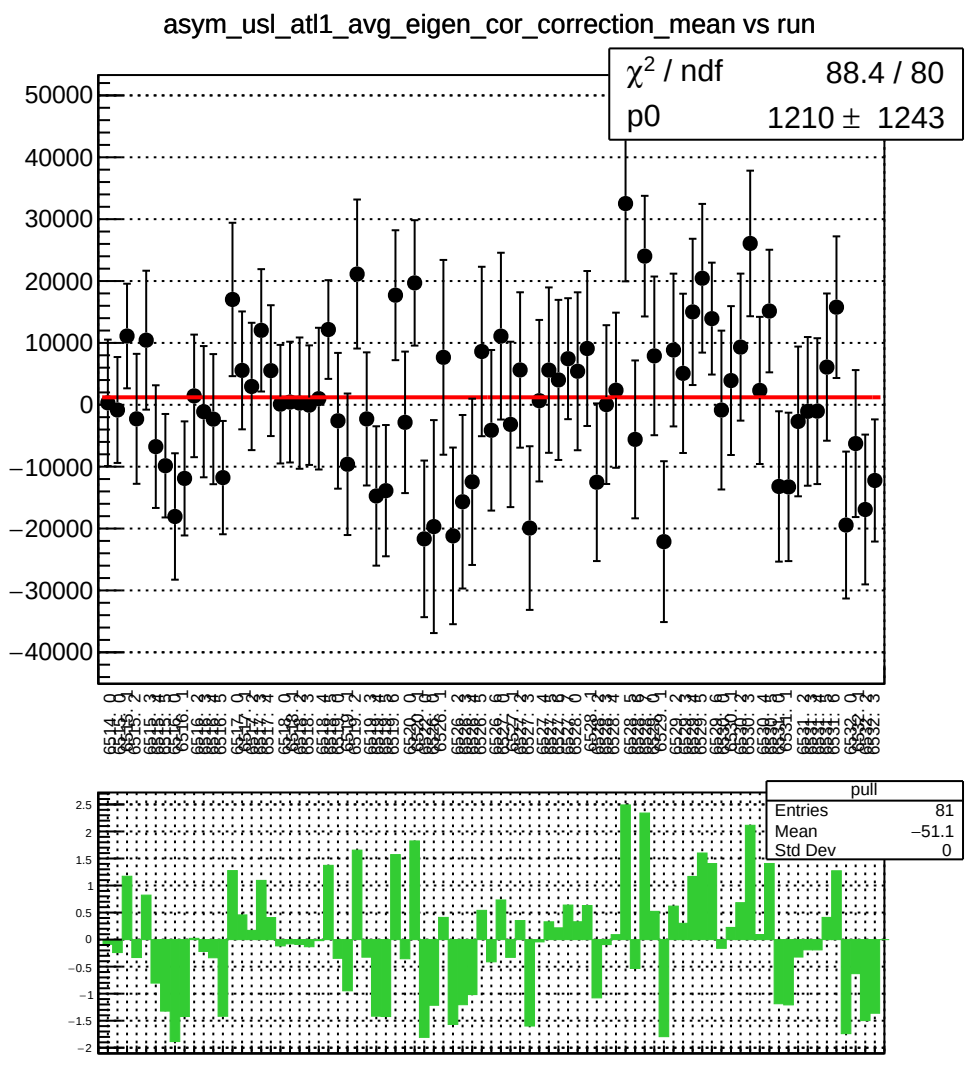

pull1D
Entries 81
Mean −0.02106
Std Dev 1.044

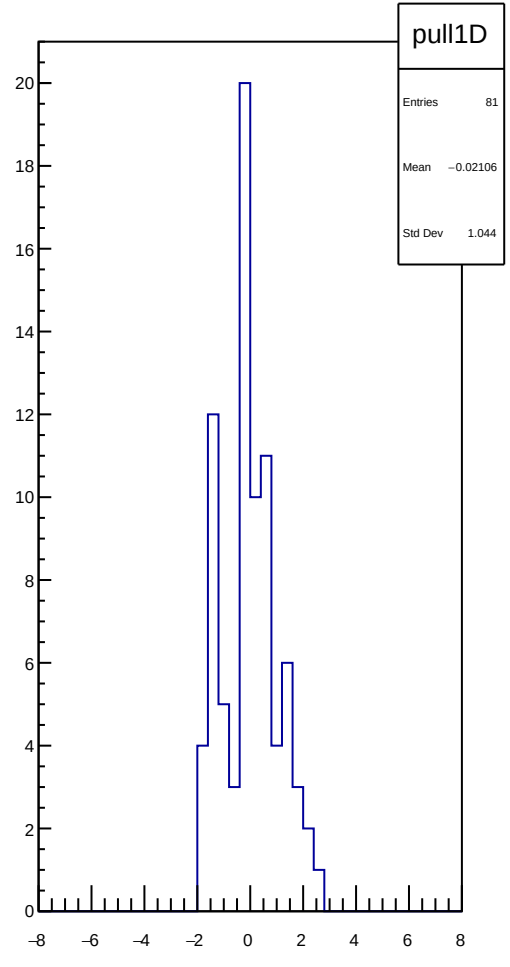

asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 2.491e+04 / 80
p0 1089 ± 0.879
1600
1400
1200
1000
800

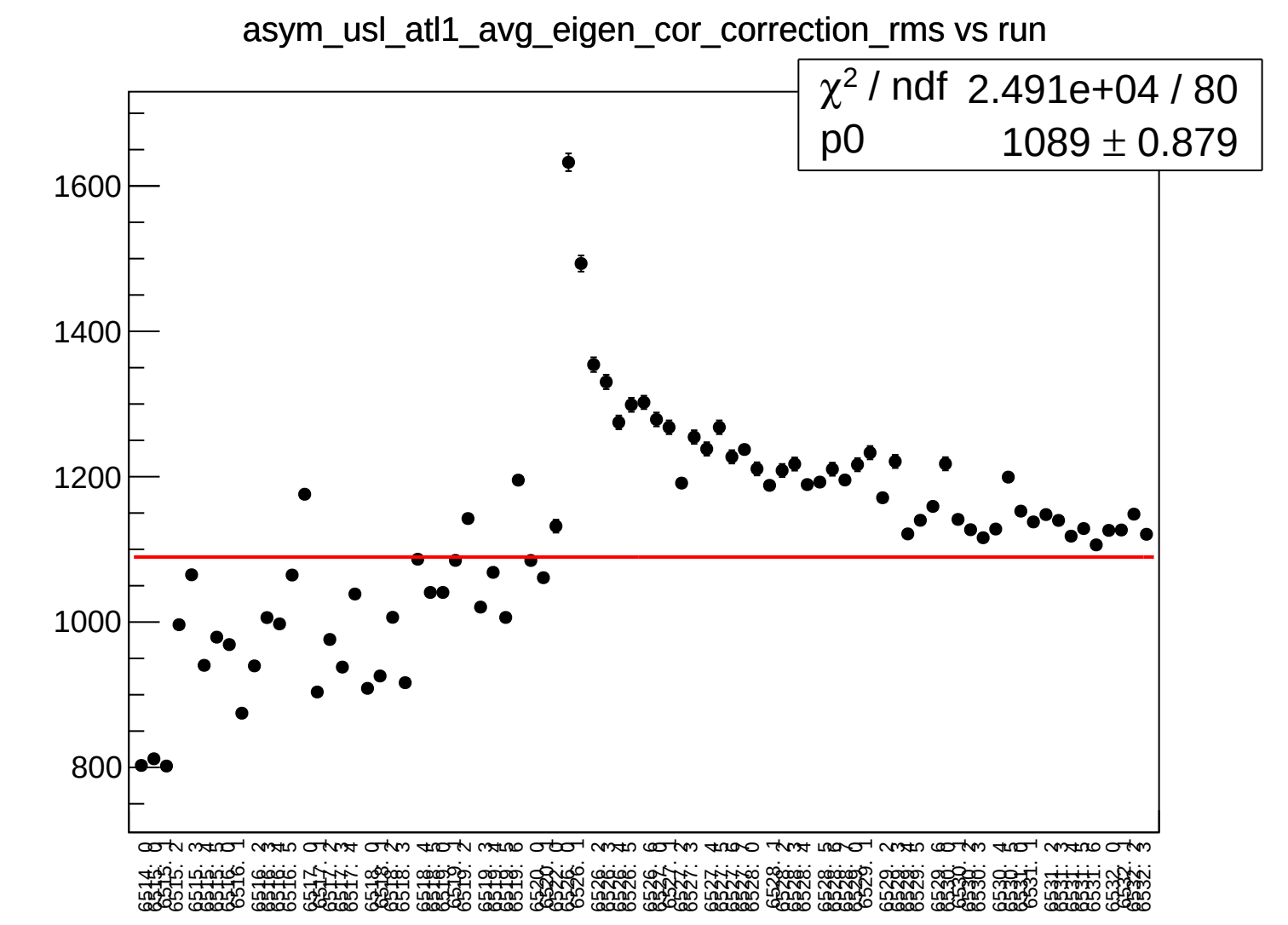

eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 71.35 / 80
p0 3893 ± 1662
60000
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −116.8
Std Dev 0
2
1
0
−1
−2

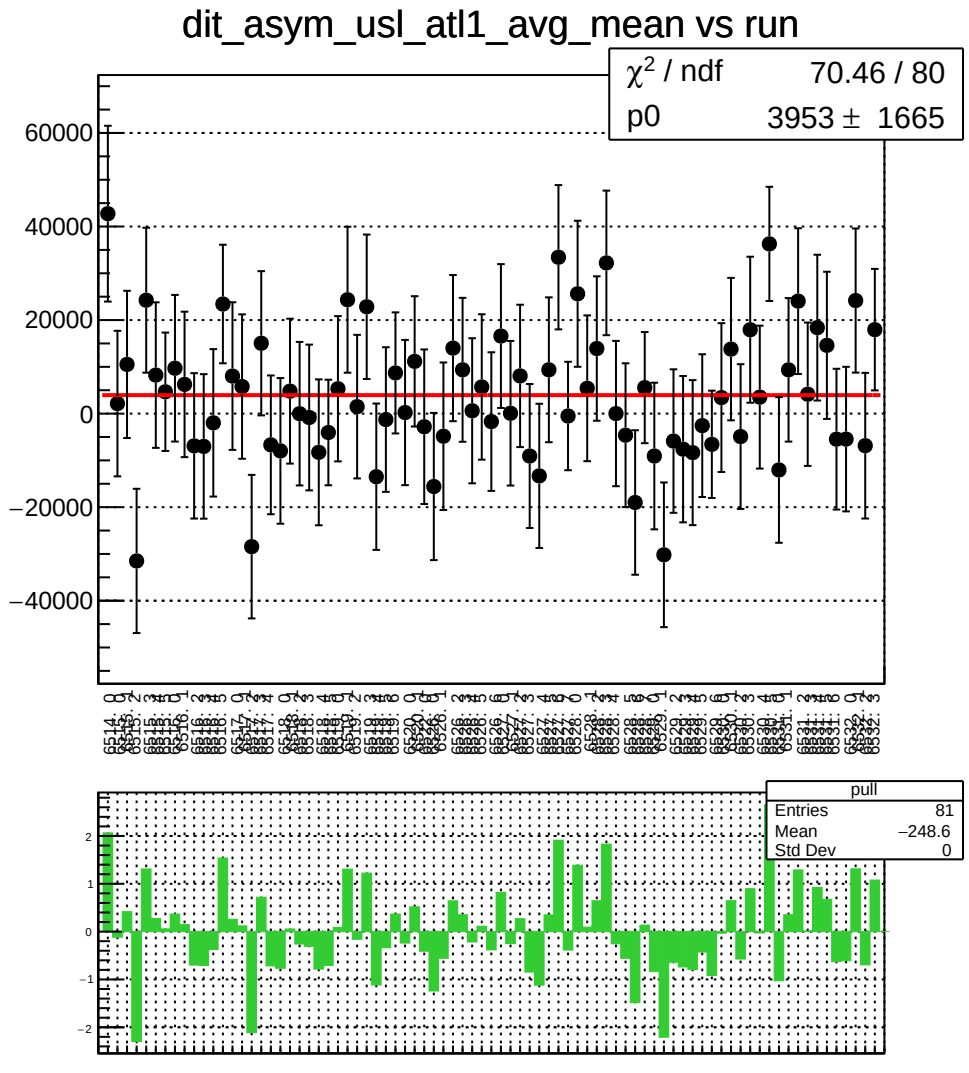

pull1D
Entries 81
Mean −0.004462
Std Dev 0.9385
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

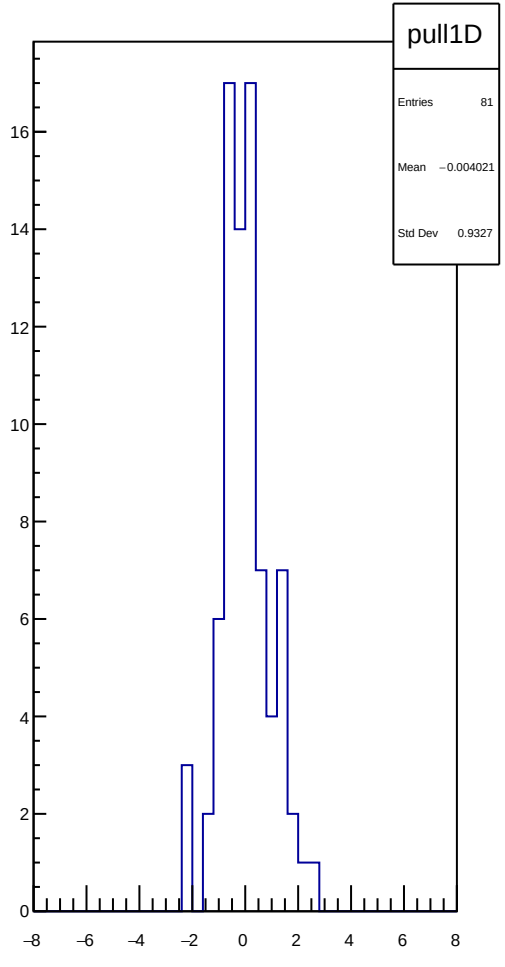

eigen_cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 100 / 80
p0 1468 ± 1.175
1520
1500
1480
1460
1440

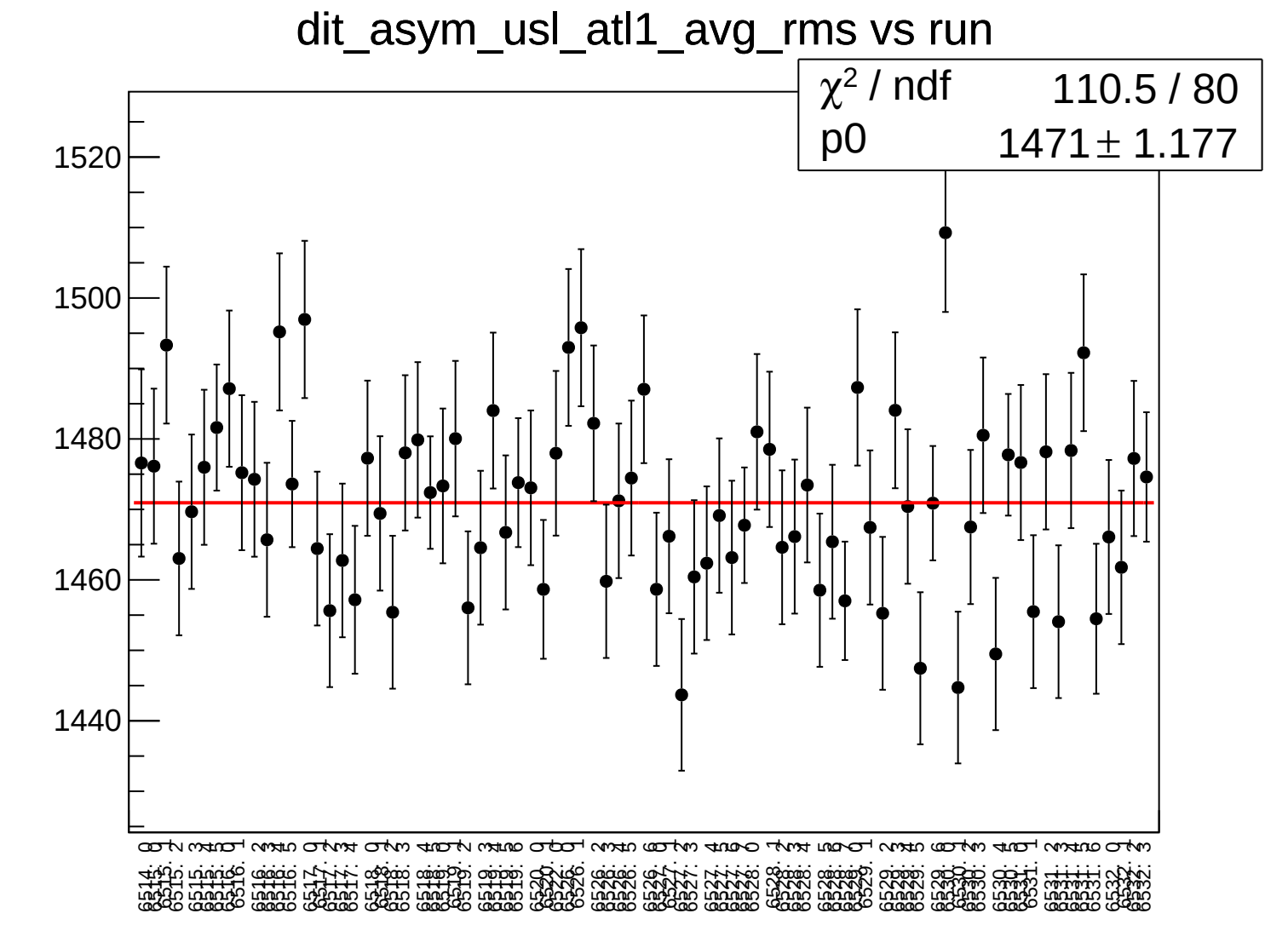

asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 88.4 / 80
p0 1210 ± 1243
pull
Entries 81
Mean −51.1
Std Dev 0

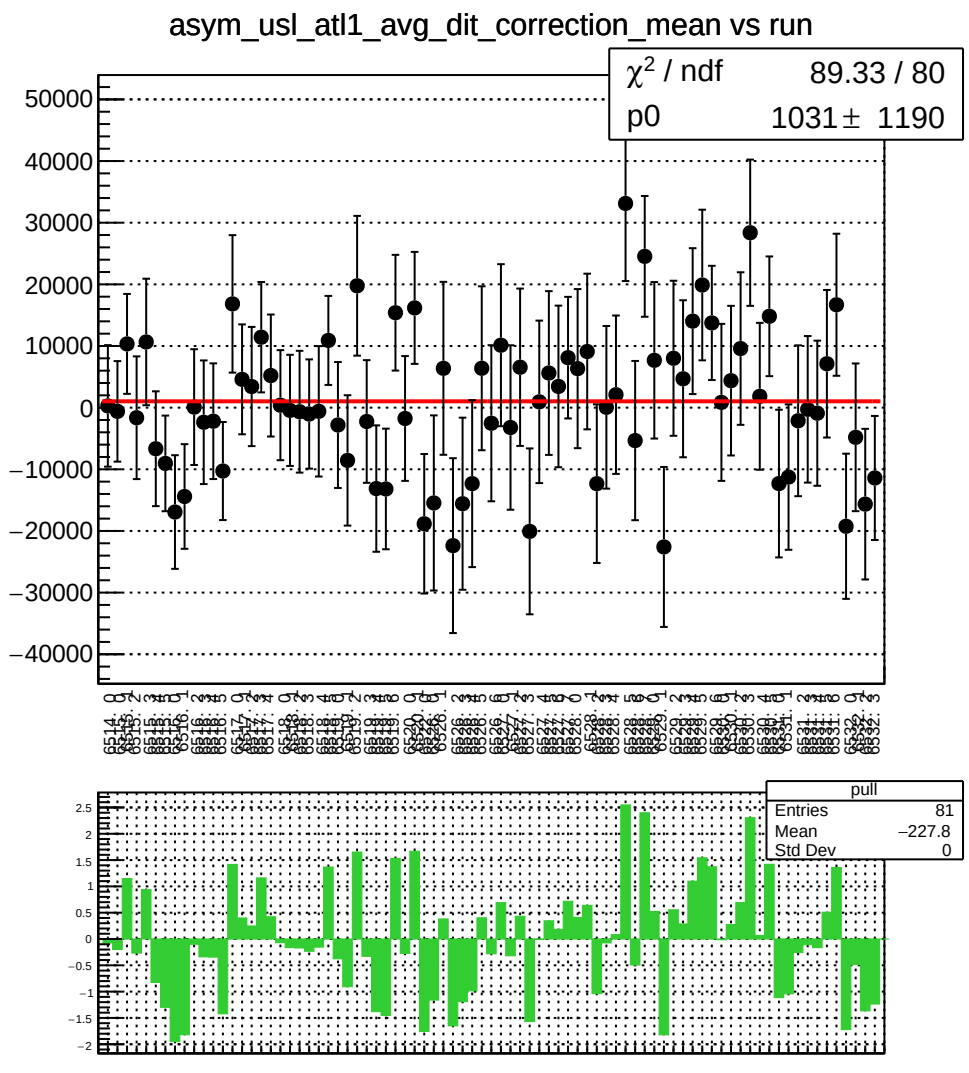

pull1D
Entries 81
Mean −0.02106
Std Dev 1.044

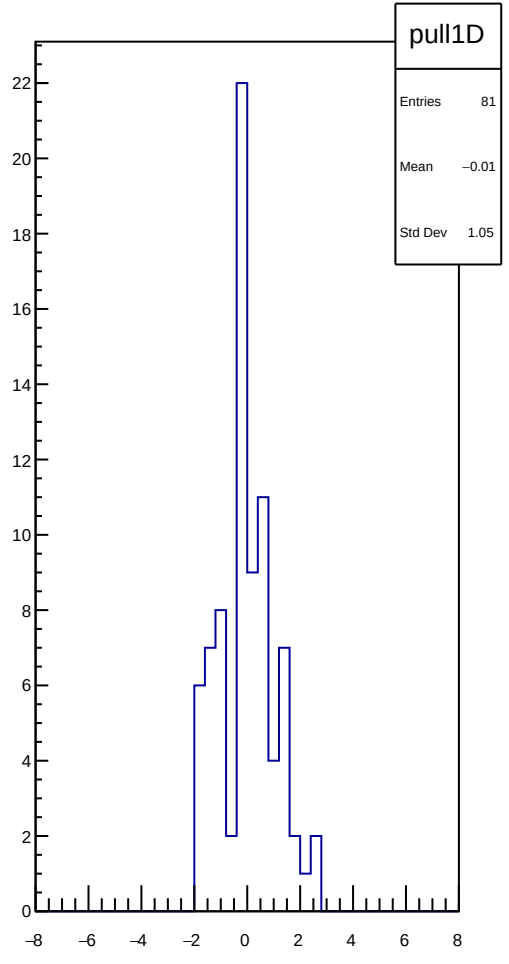

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.491e+04 / 80
p0 1089 ± 0.879
1600
1400
1200
1000
800

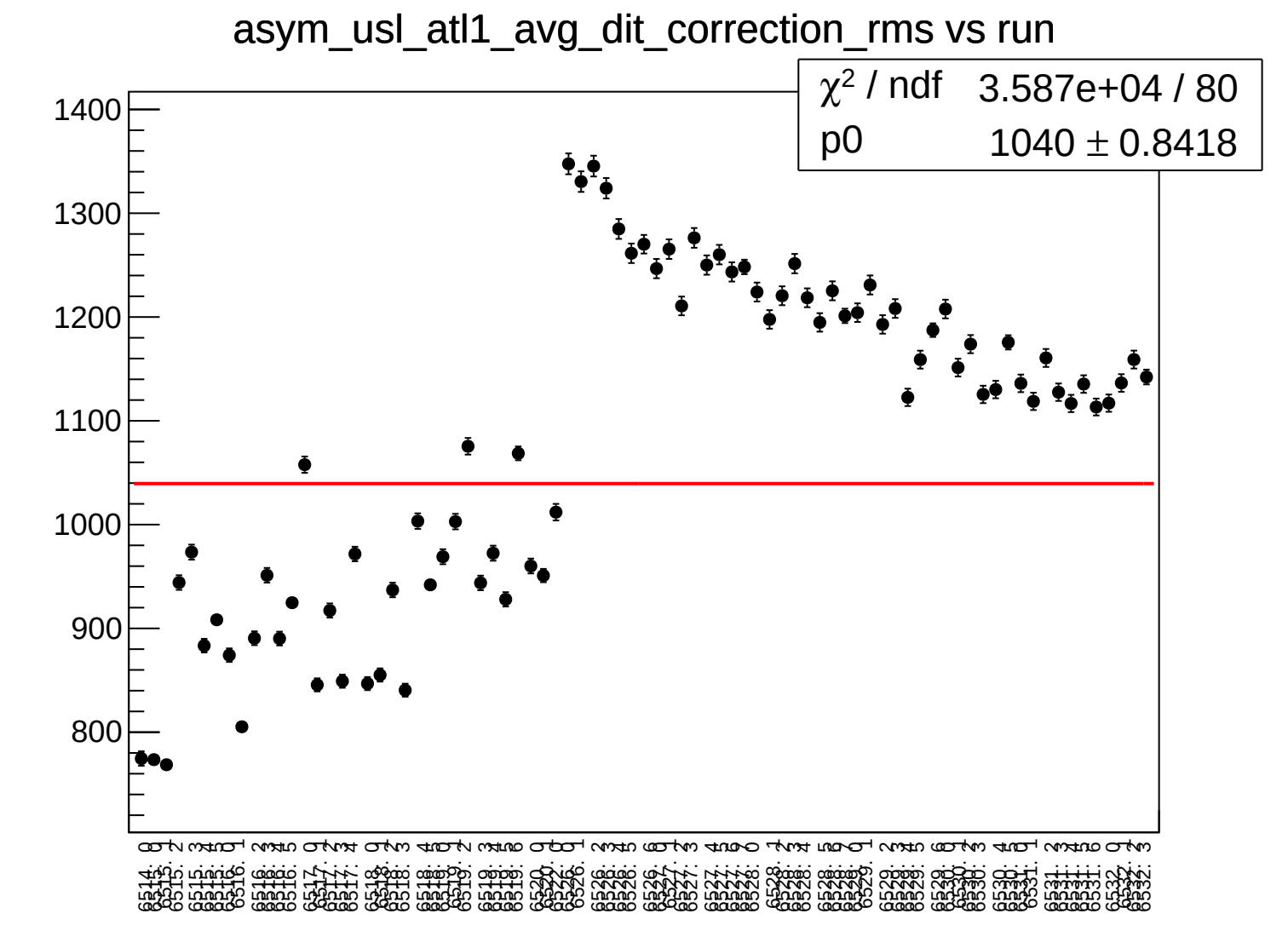

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 70.46 / 80
p0 3953 ± 1665
60000
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −248.6
Std Dev 0
2
1
0
−1
−2

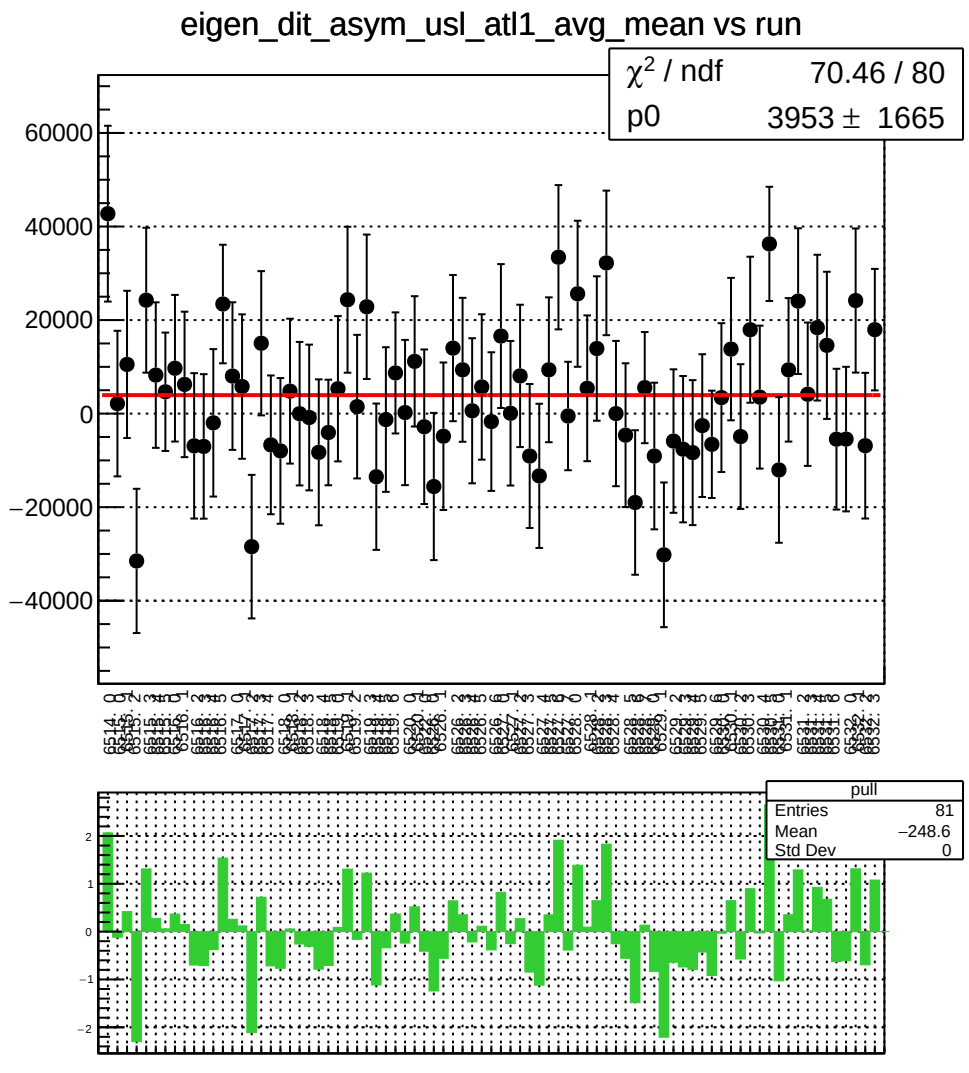

pull1D
Entries 81
Mean −0.004021
Std Dev 0.9327
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

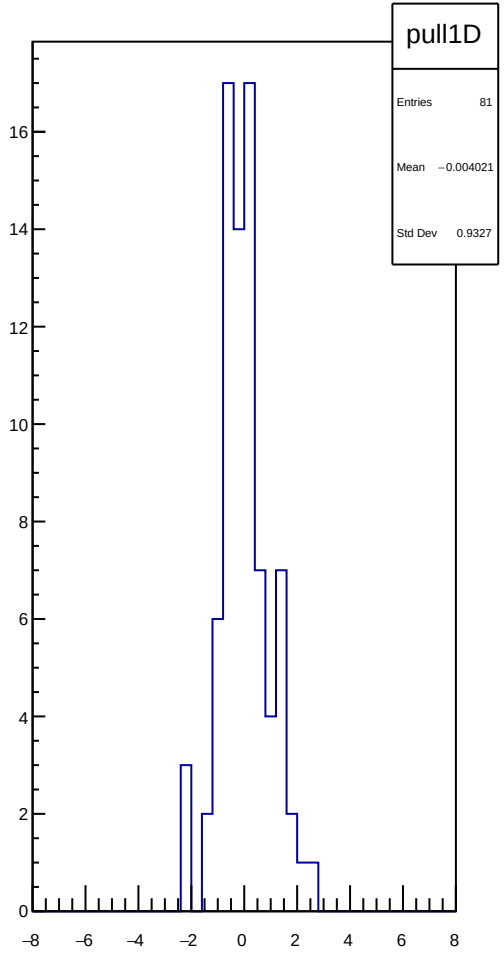

dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 110.5 / 80
p0 1471 ± 1.177
1520
1500
1480
1460
1440

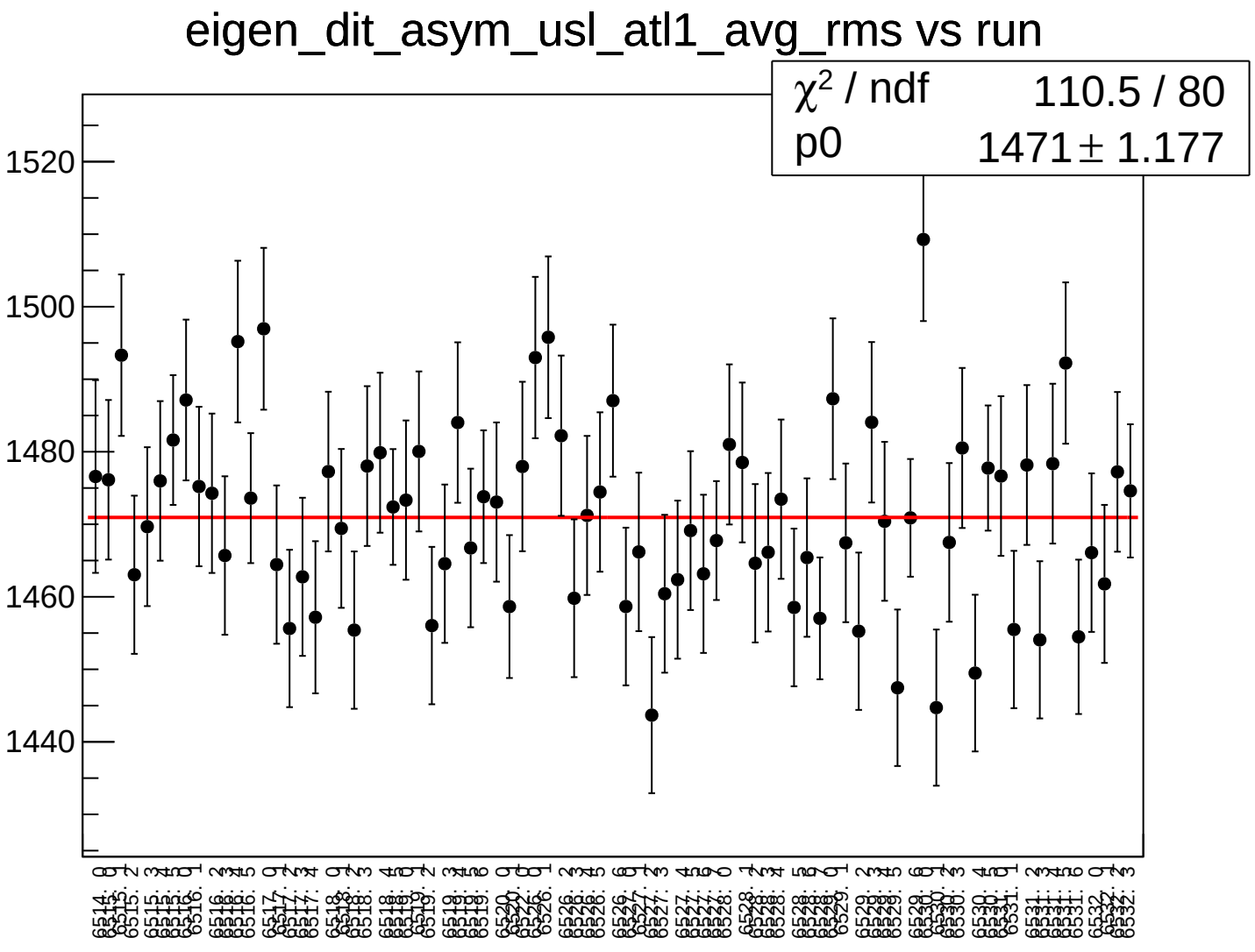

asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 89.33 / 80
p0 1031 ± 1190
pull
Entries 81
Mean −227.8
Std Dev 0

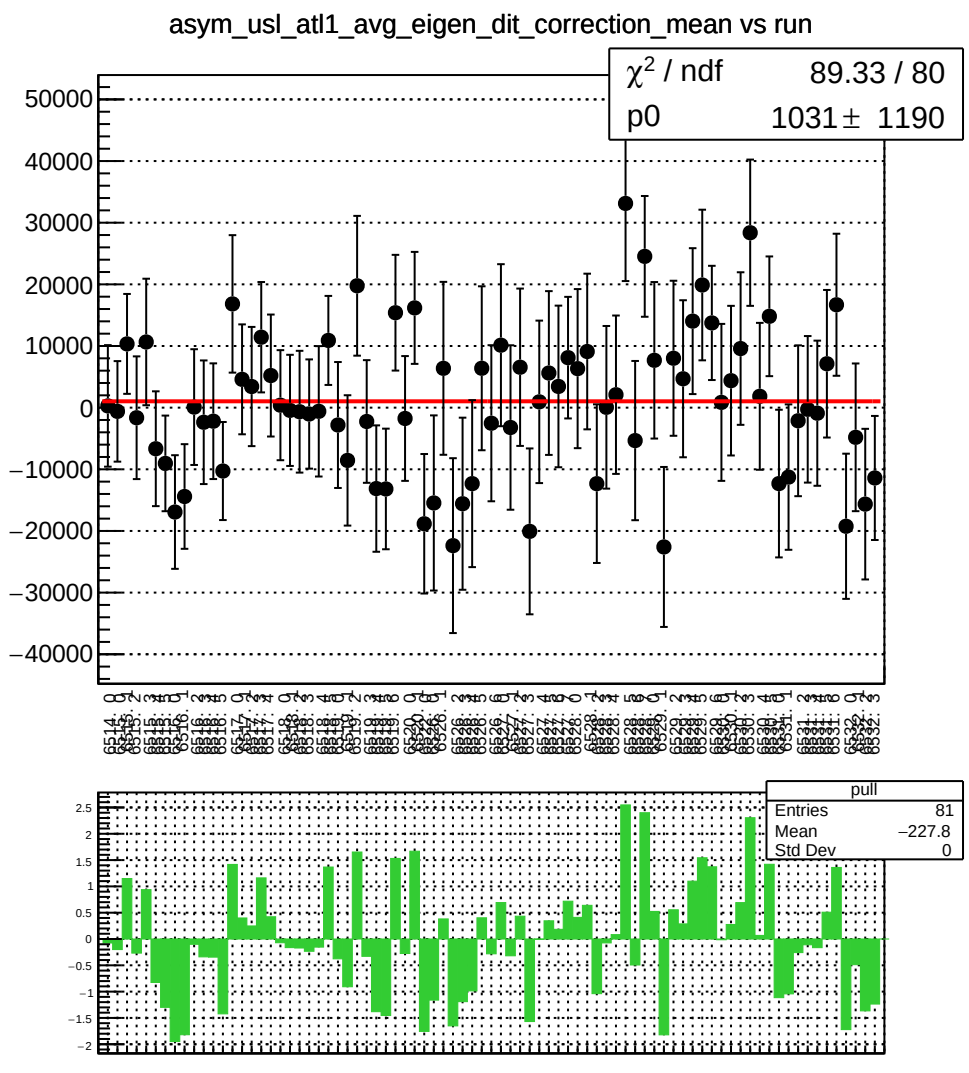

pull1D
Entries 81
Mean −0.01
Std Dev 1.05

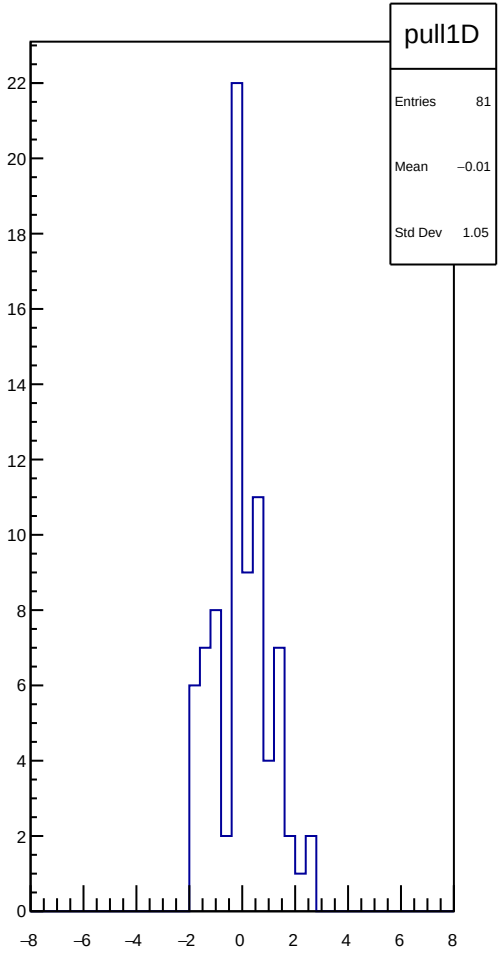

asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 3.587e+04 / 80
p0 1040 ± 0.8418
1400
1300
1200
1100
1000
900
800

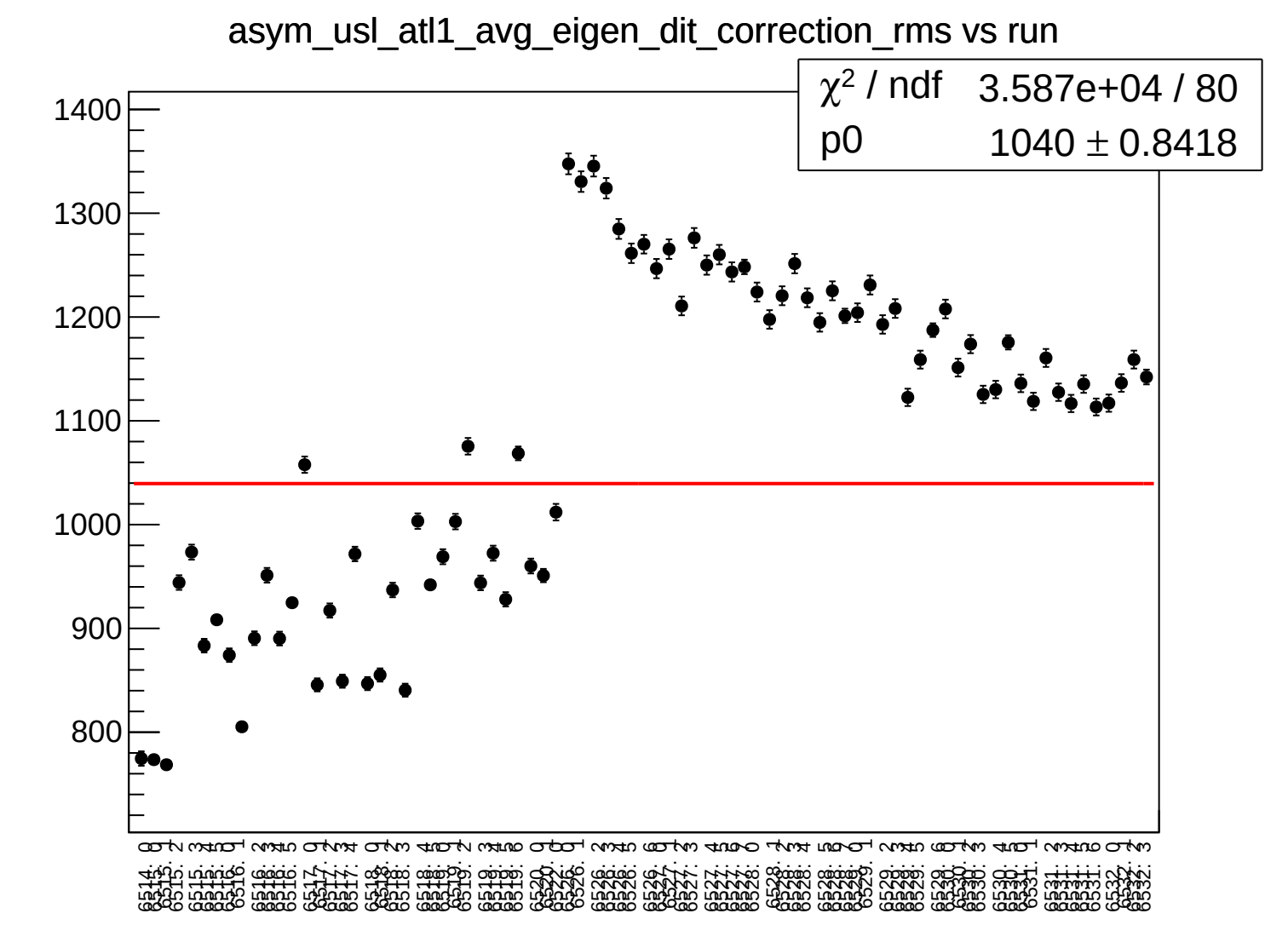

eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 70.46 / 80
p0 3953 ± 1665
60000
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −248.6
Std Dev 0
2
1
0
−1
−2

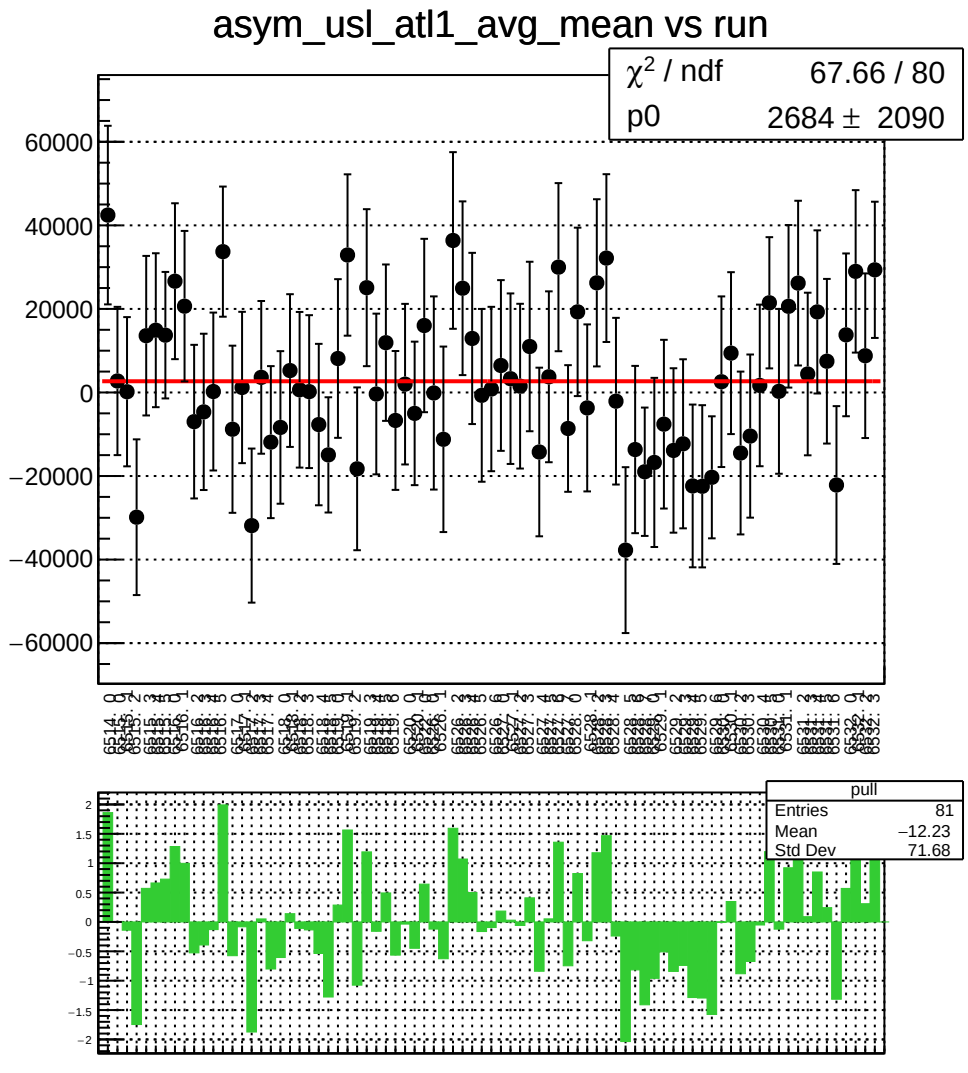

pull1D
Entries 81
Mean −0.004021
Std Dev 0.9327
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

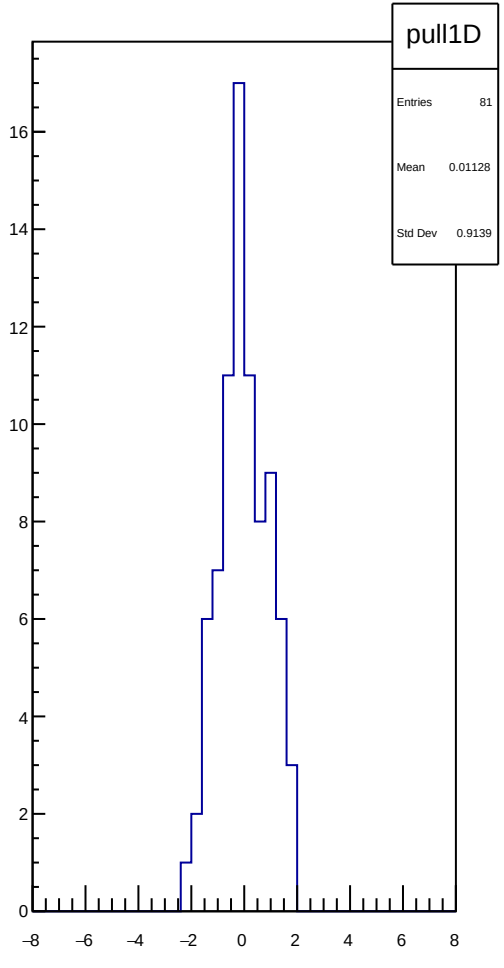

eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 110.5 / 80
p0 1471 ± 1.177
1520
1500
1480
1460
1440

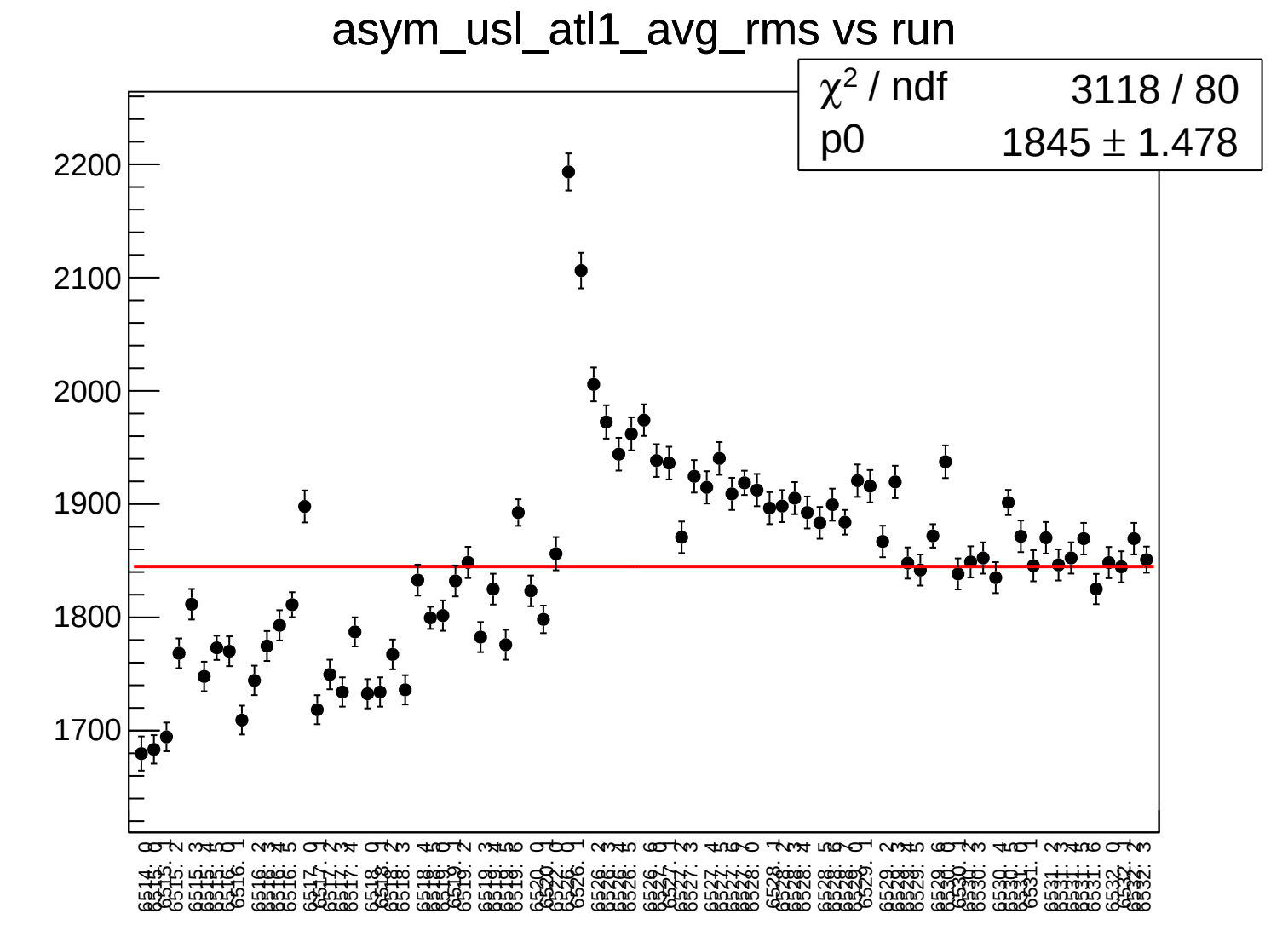

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 89.33 / 80
p0 1031 ± 1190
pull
Entries 81
Mean −227.8
Std Dev 0

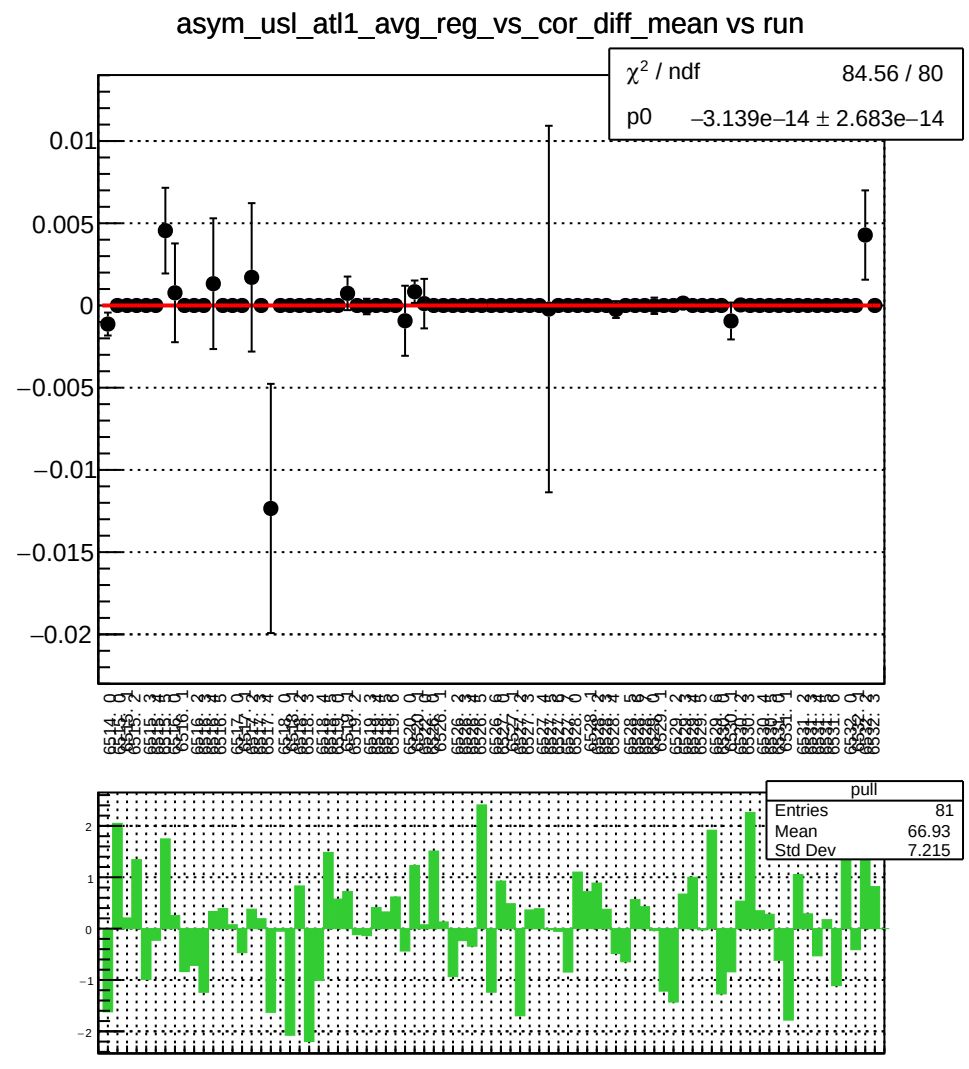

pull1D
Entries 81
Mean −0.01
Std Dev 1.05

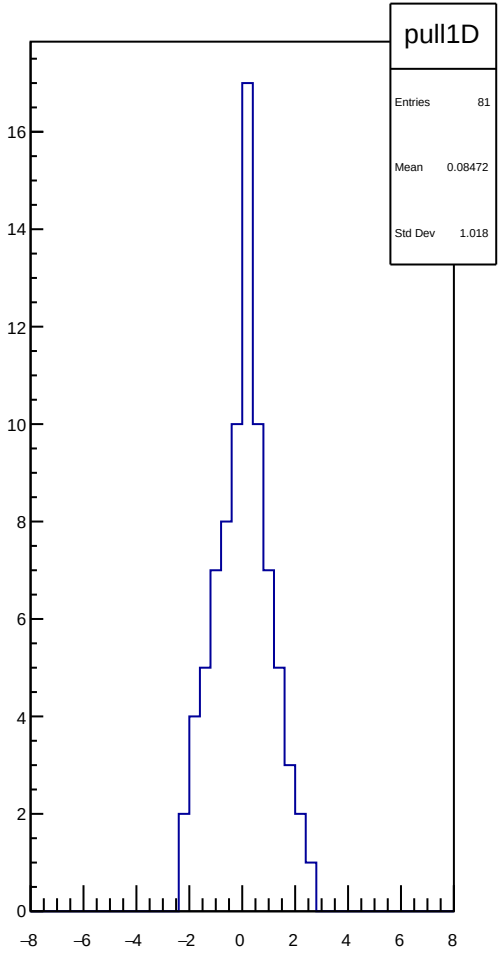

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.587e+04 / 80
p0 1040 ± 0.8418
1400
1300
1200
1100
1000
900
800

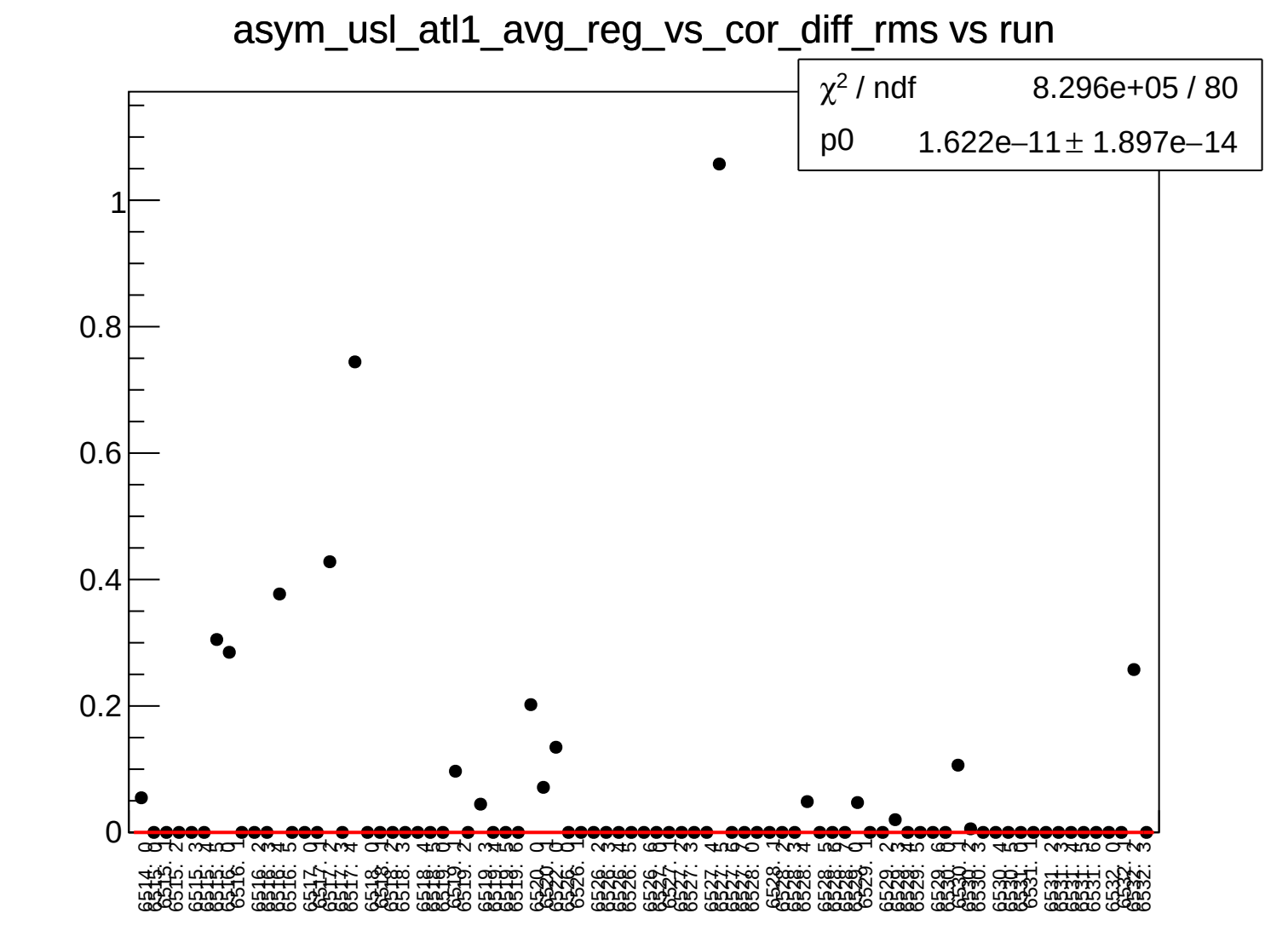

asym_usl_atl1_avg_mean vs run
χ² / ndf 67.66 / 80
p0 2684 ± 2090
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −12.23
Std Dev 71.68
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

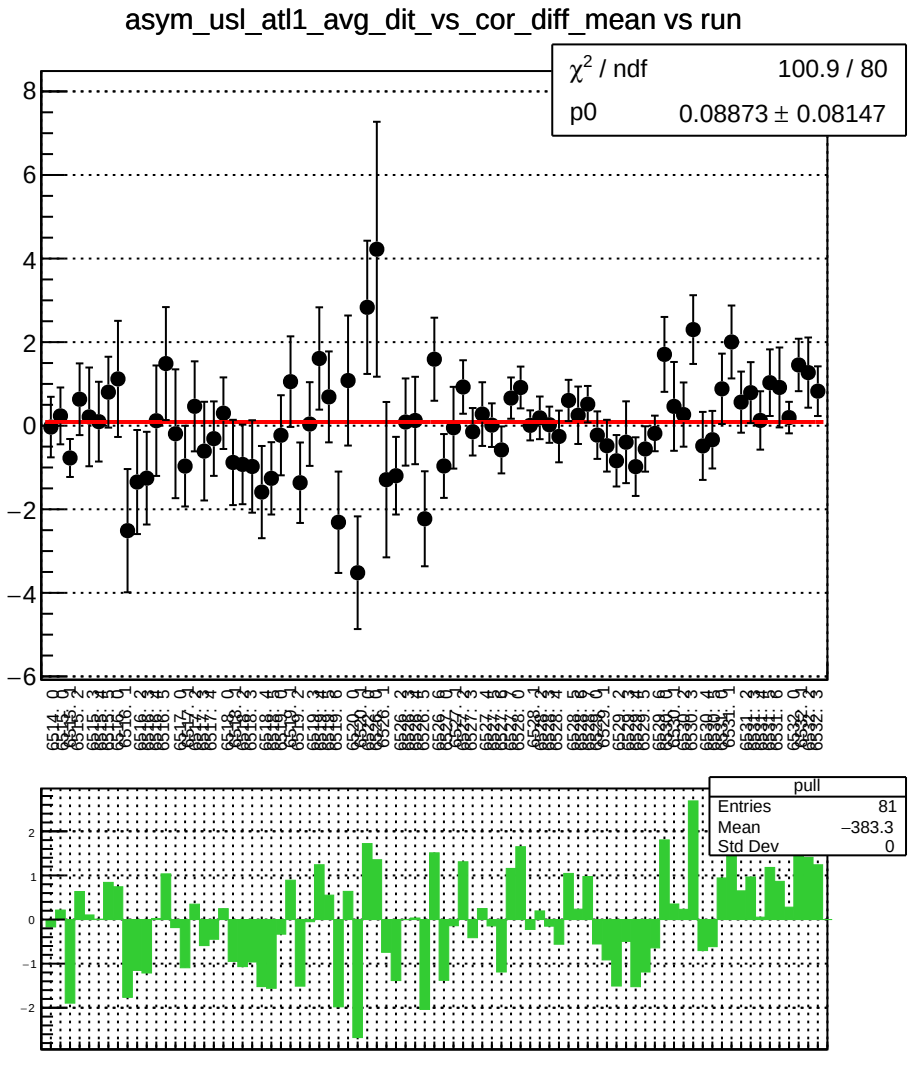

pull1D
Entries 81
Mean 0.01128
Std Dev 0.9139
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

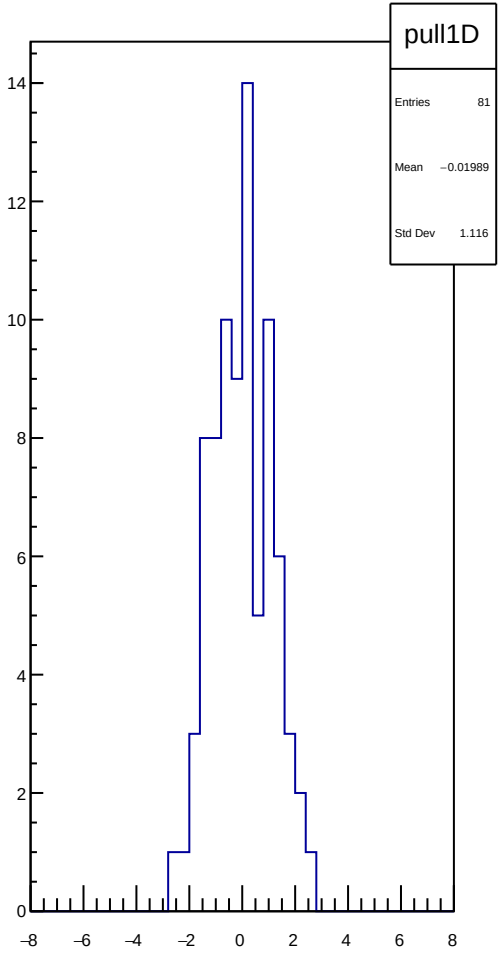

asym_usl_atl1_avg_rms vs run
χ² / ndf 3118 / 80
p0 1845 ± 1.478
2200
2100
2000
1900
1800
1700

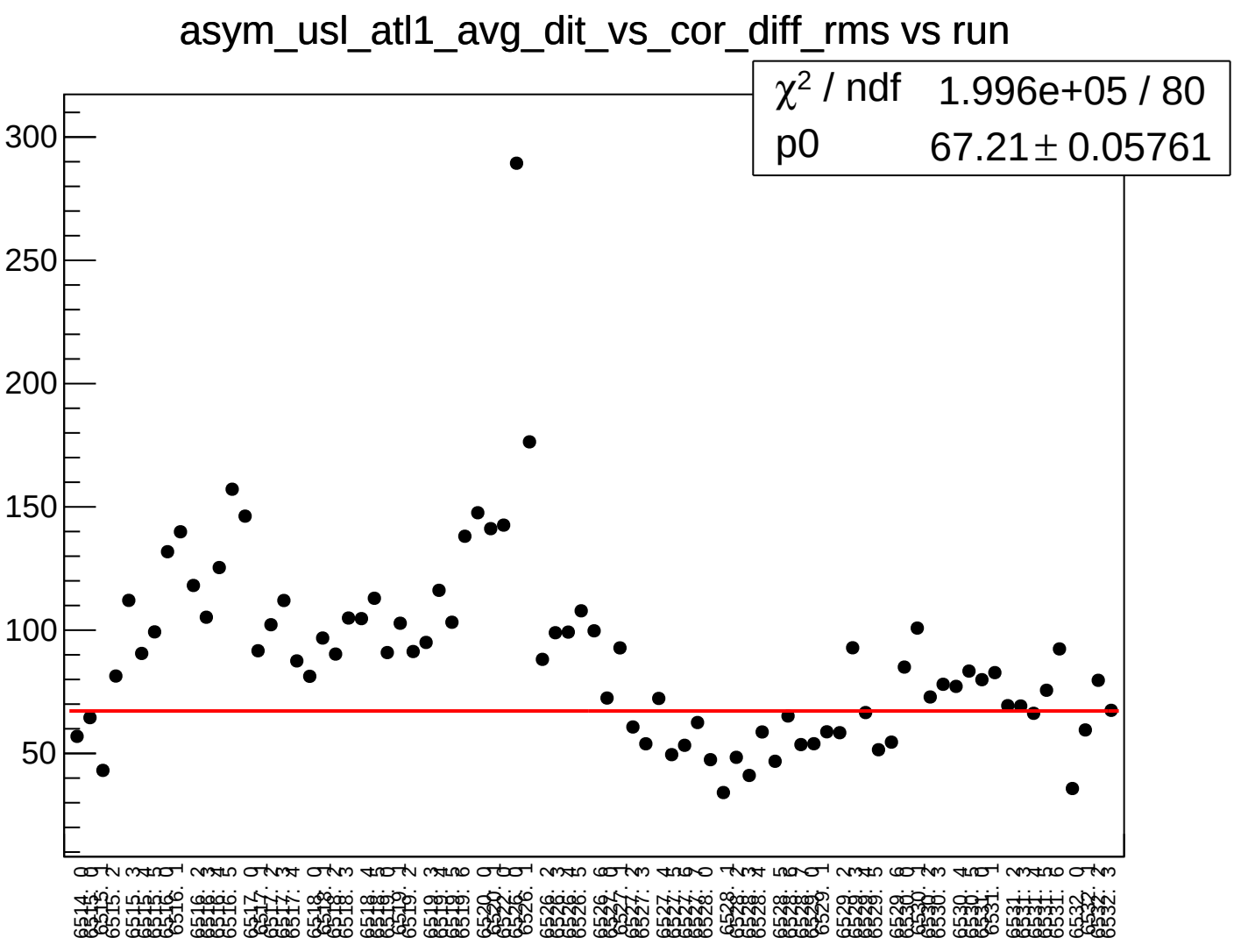

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.56 / 80
p0 −3.139e−14 ± 2.683e−14
pull
Entries 81
Mean 66.93
Std Dev 7.215

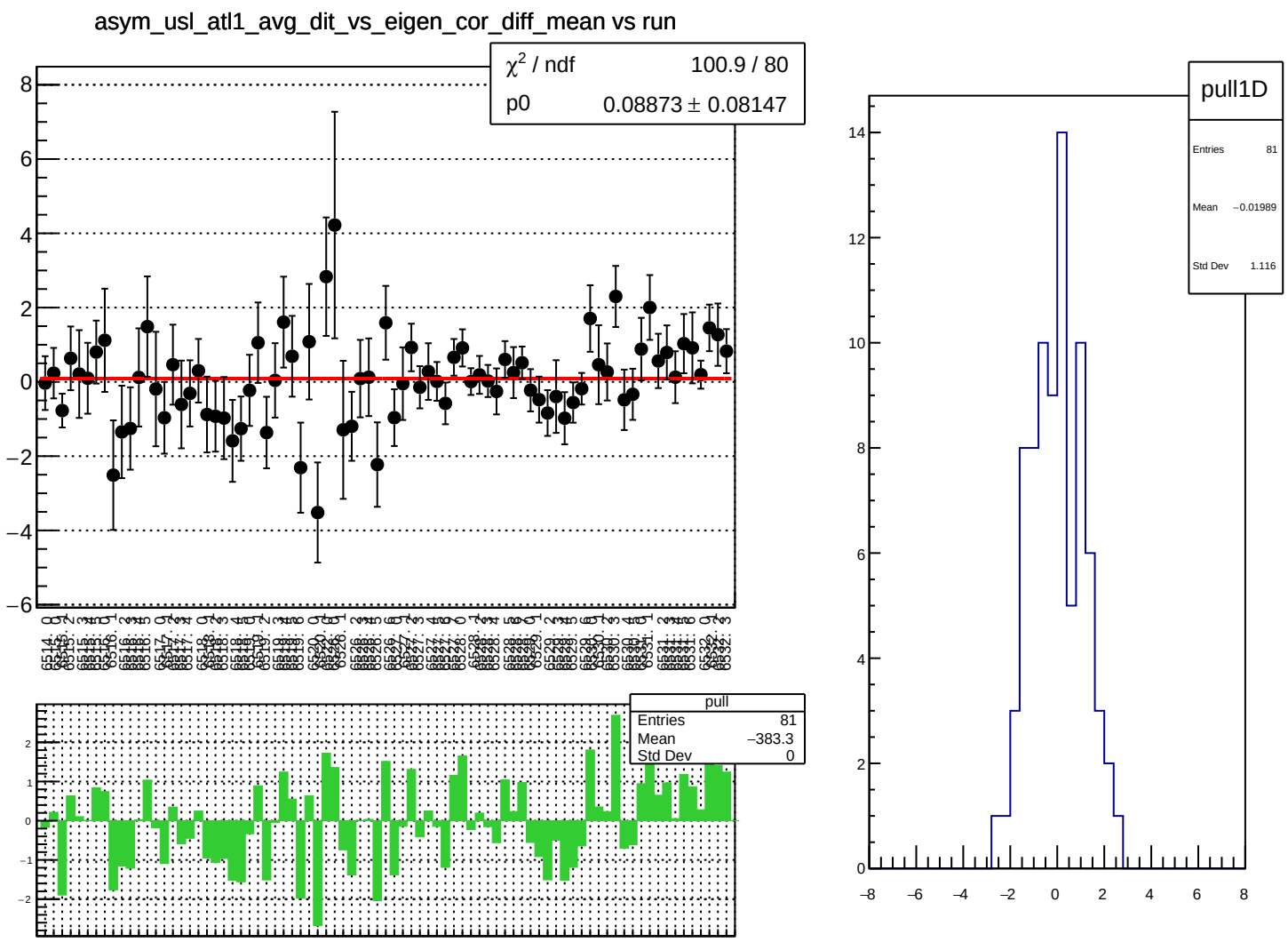

pull1D
Entries 81
Mean 0.08472
Std Dev 1.018

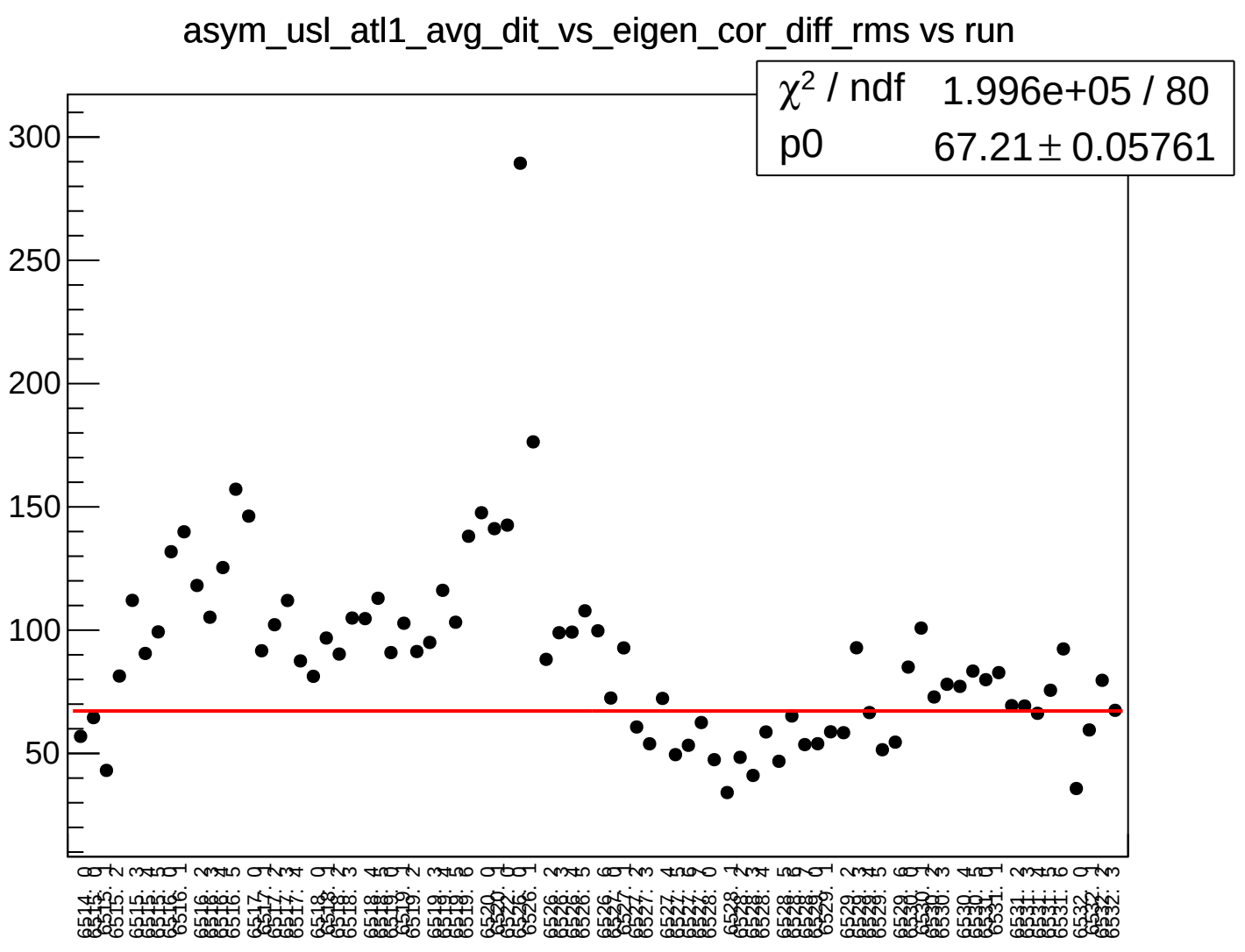

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.296e+05 / 80
p0 1.622e−11 ± 1.897e−14
1
0.8
0.6
0.4
0.2
0

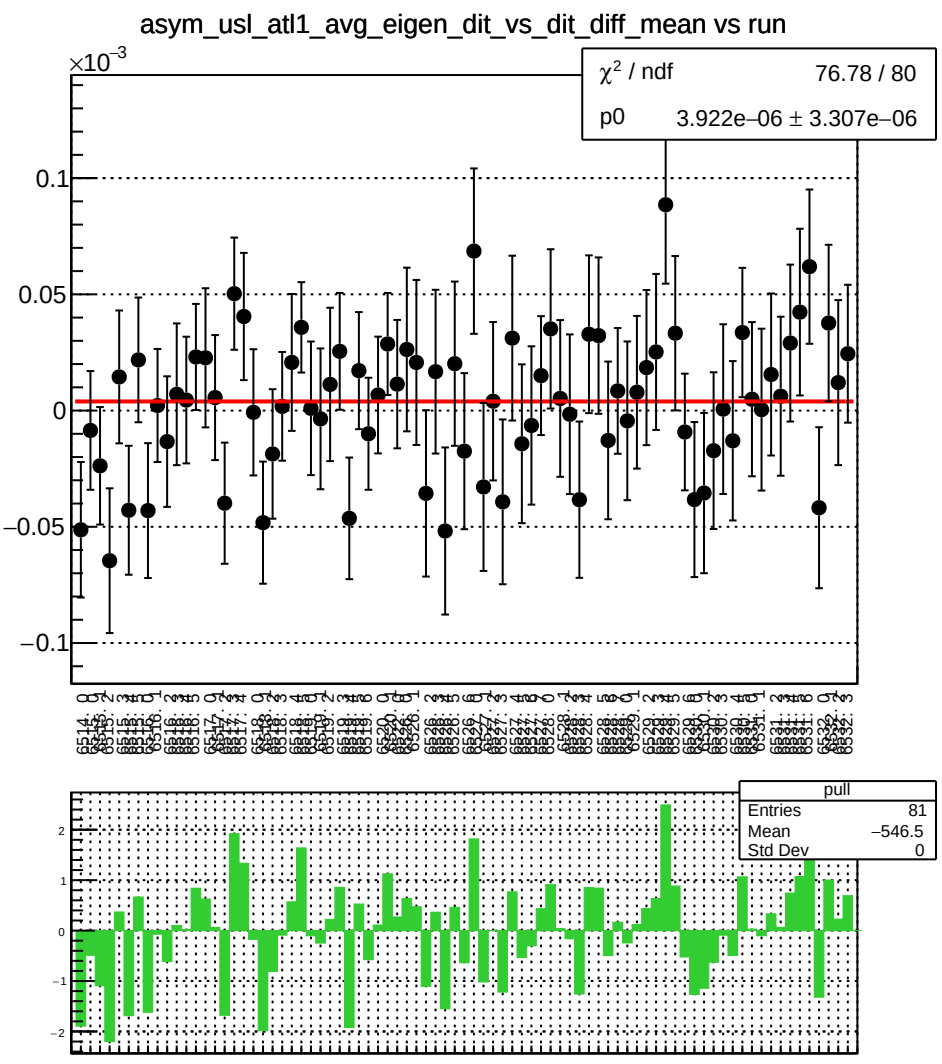

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 100.9 / 80
p0 0.08873 ± 0.08147
pull
Entries 81
Mean −383.3
Std Dev 0

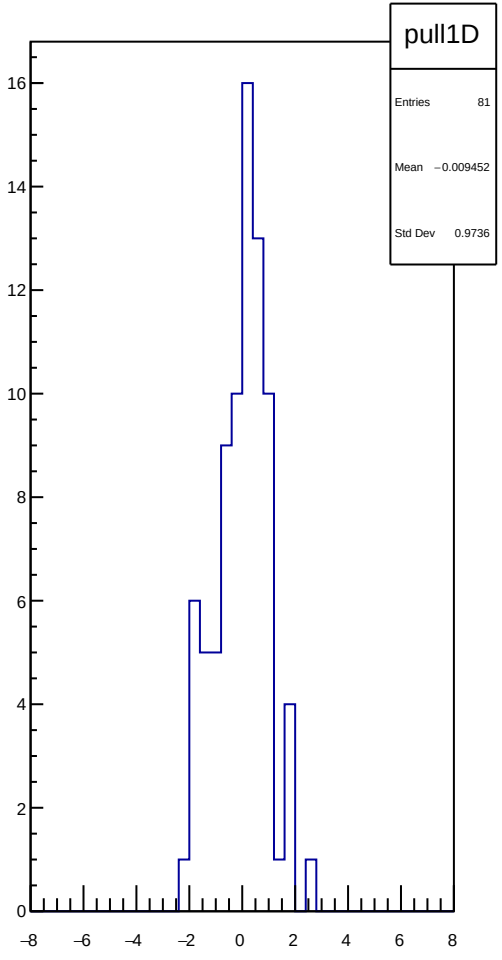

pull1D
Entries 81
Mean −0.01989
Std Dev 1.116

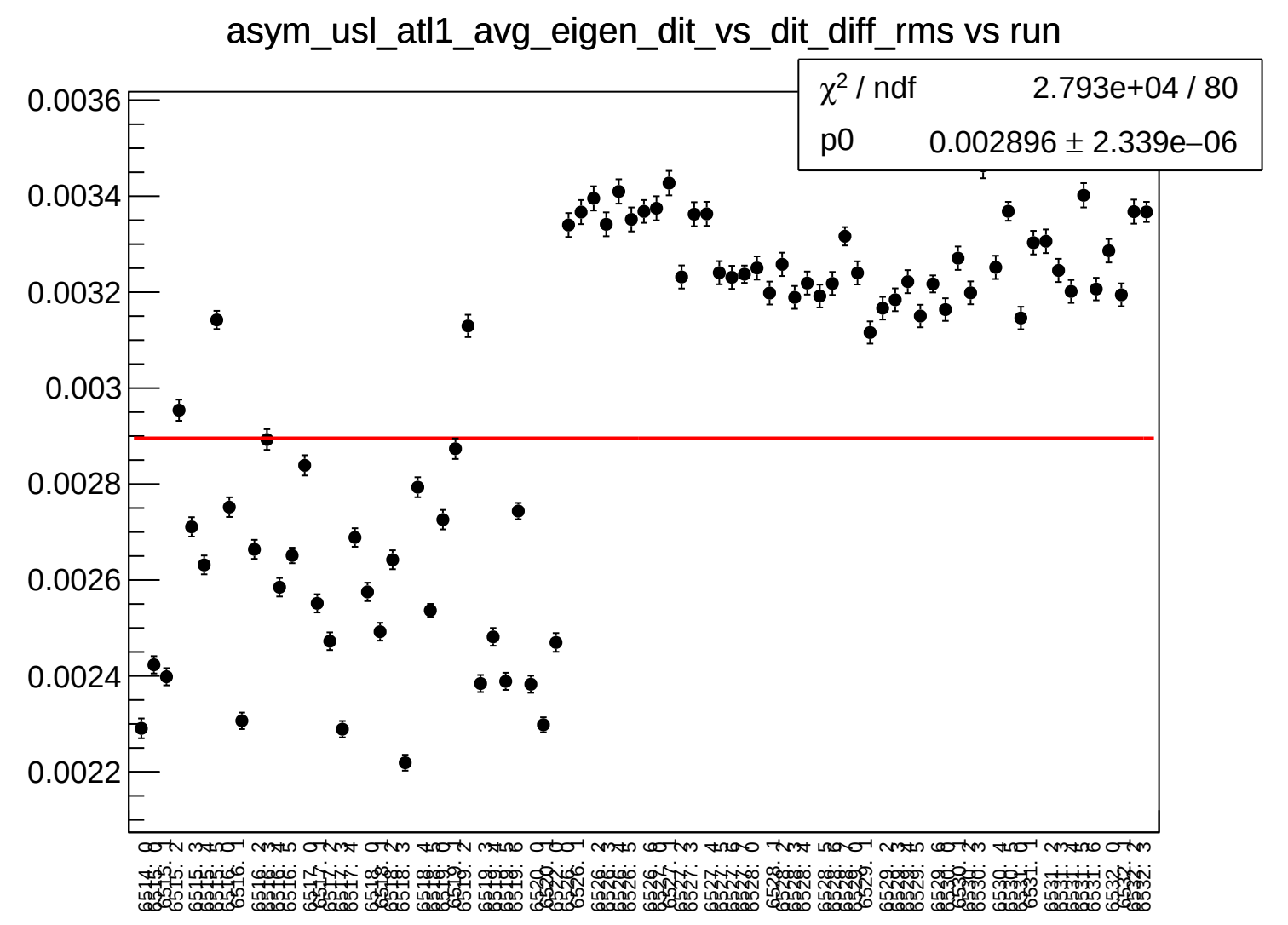

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.996e+05 / 80
p0 67.21 ± 0.05761
300
250
200
150
100
50

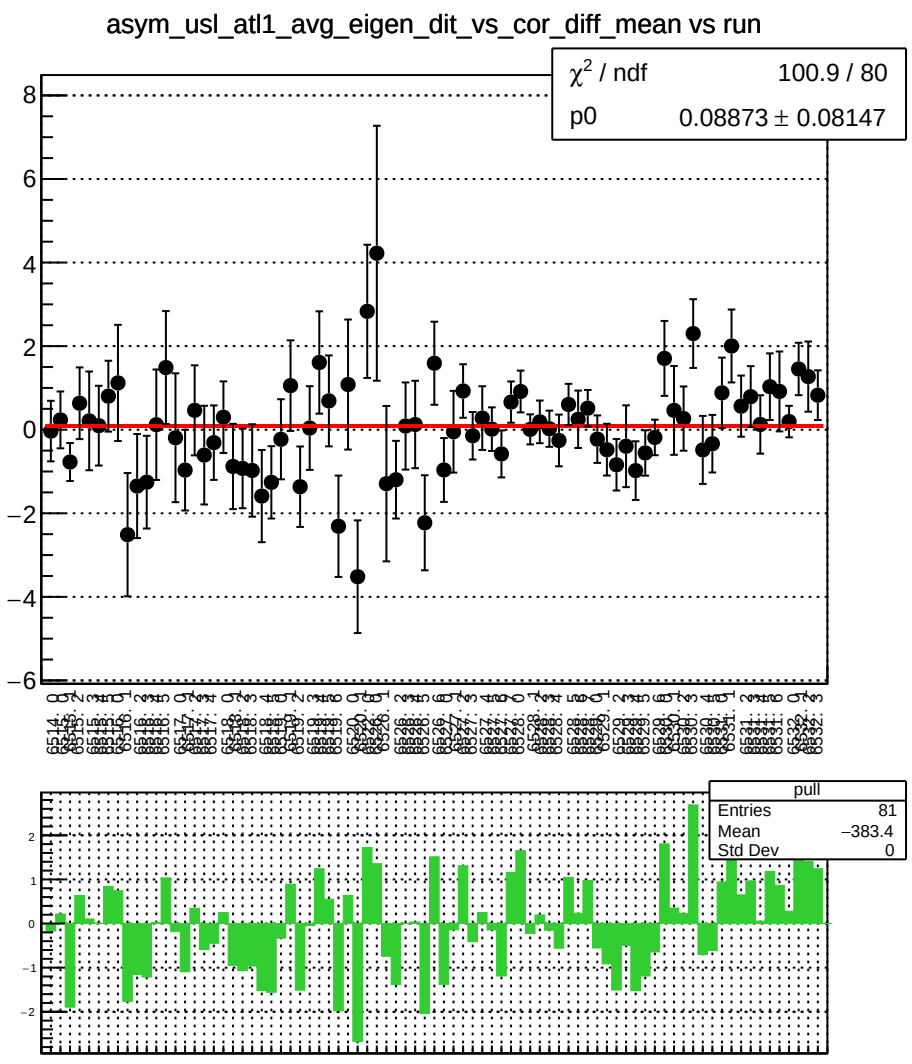

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.9 / 80
p0 0.08873 ± 0.08147
pull
Entries 81
Mean −383.3
Std Dev 0
pull1D
Entries 81
Mean −0.01989
Std Dev 1.116

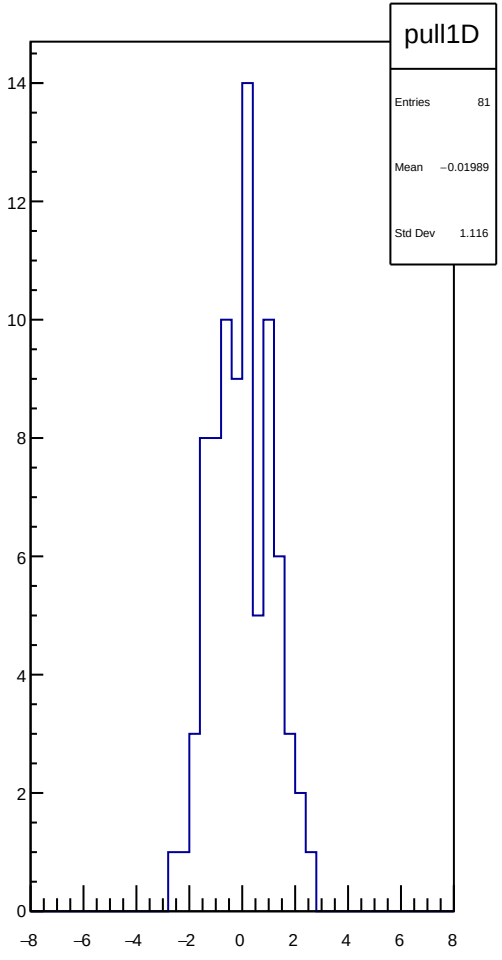

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.996e+05 / 80
p0 67.21 ± 0.05761
300
250
200
150
100
50

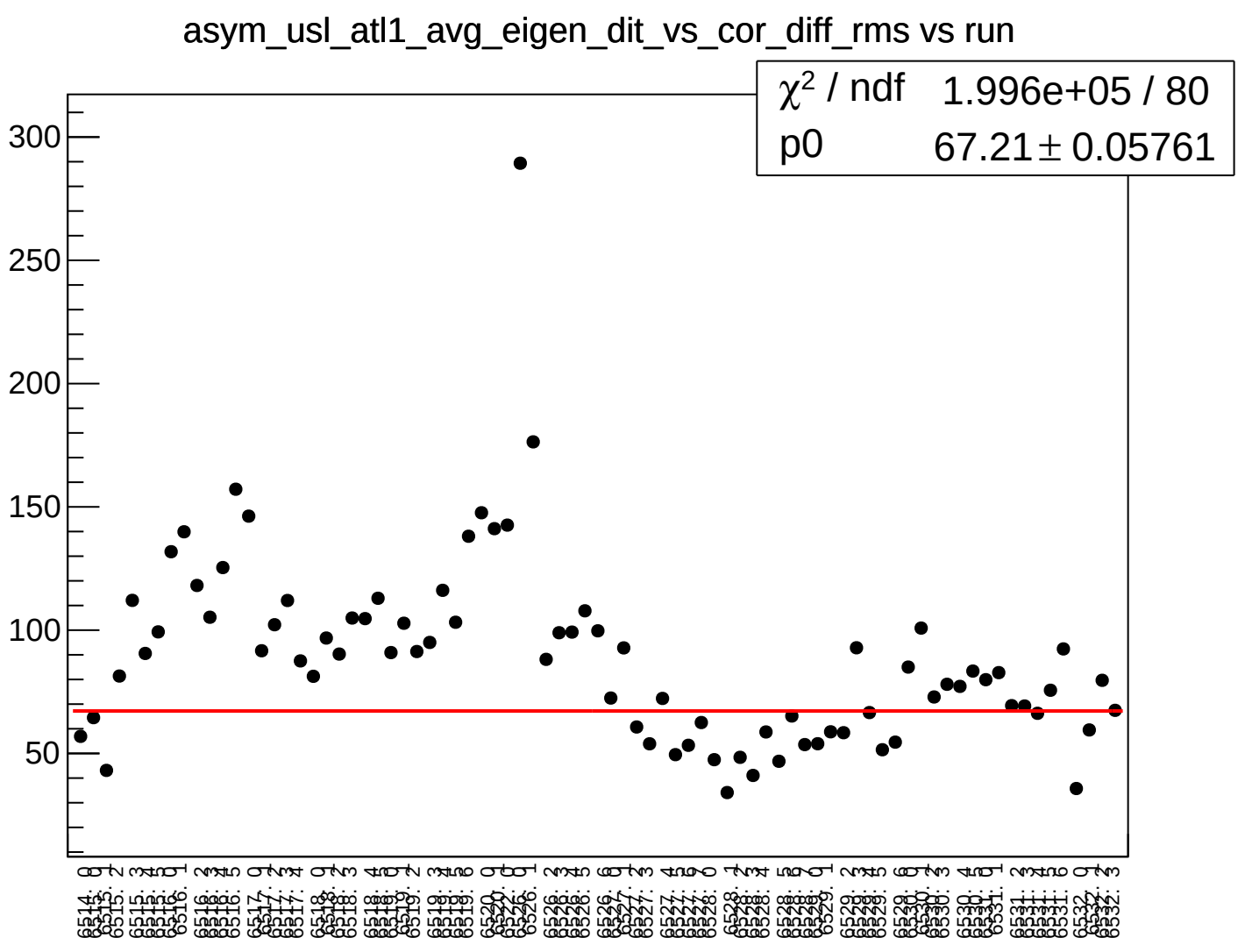

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.78 / 80
p0 3.922e−06 ± 3.307e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 81
Mean −546.5
Std Dev 0
2
1
0
−1
−2

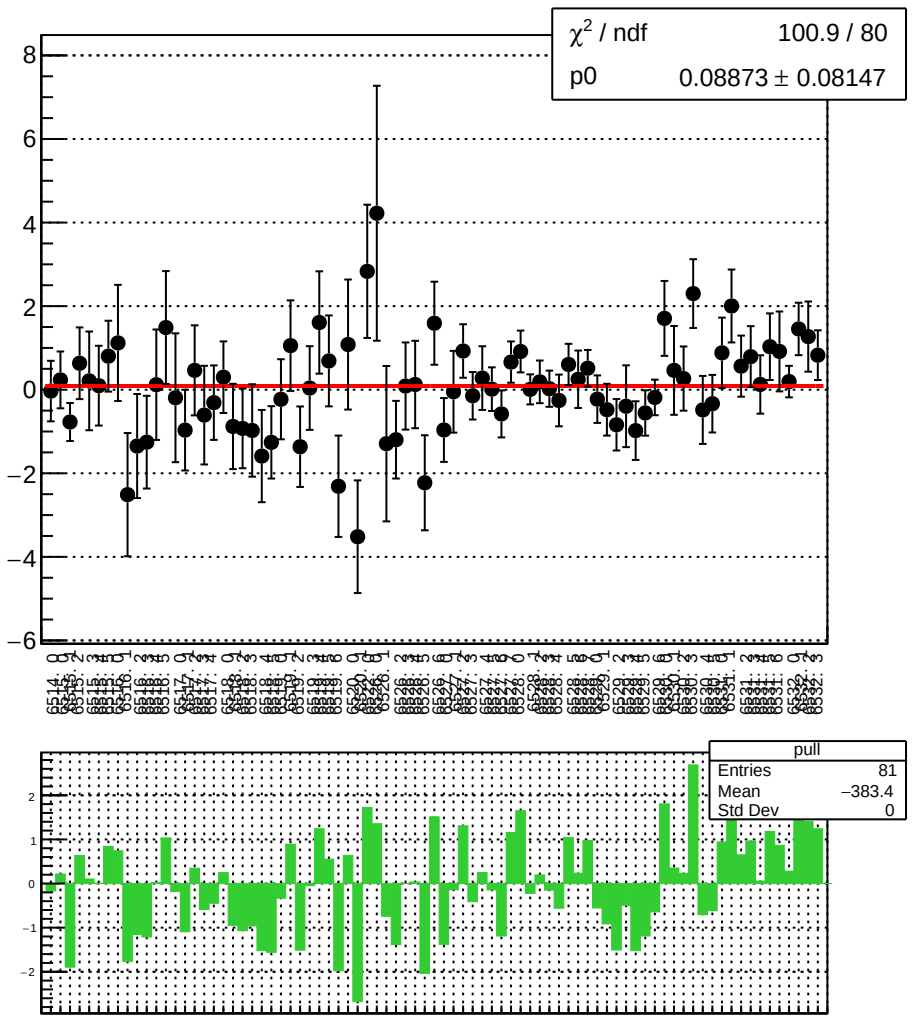

pull1D
Entries 81
Mean −0.009452
Std Dev 0.9736
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

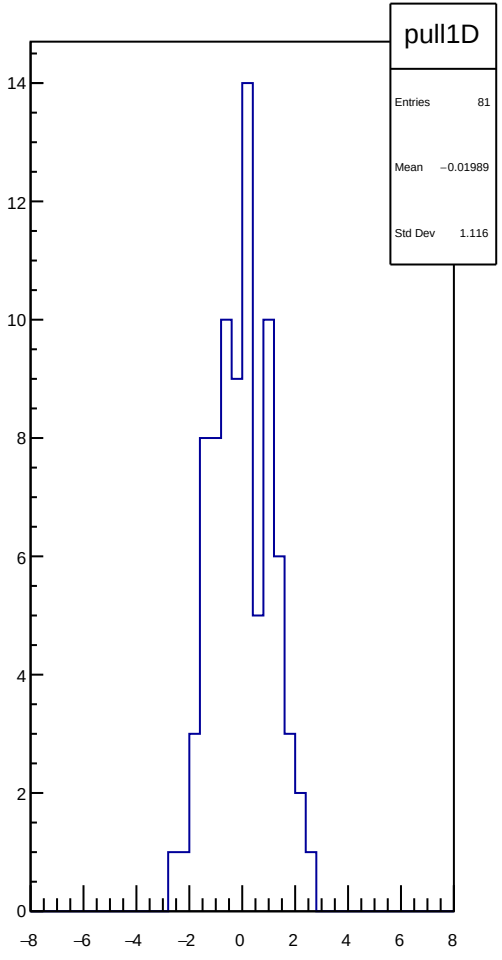

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.793e+04 / 80
p0 0.002896 ± 2.339e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022

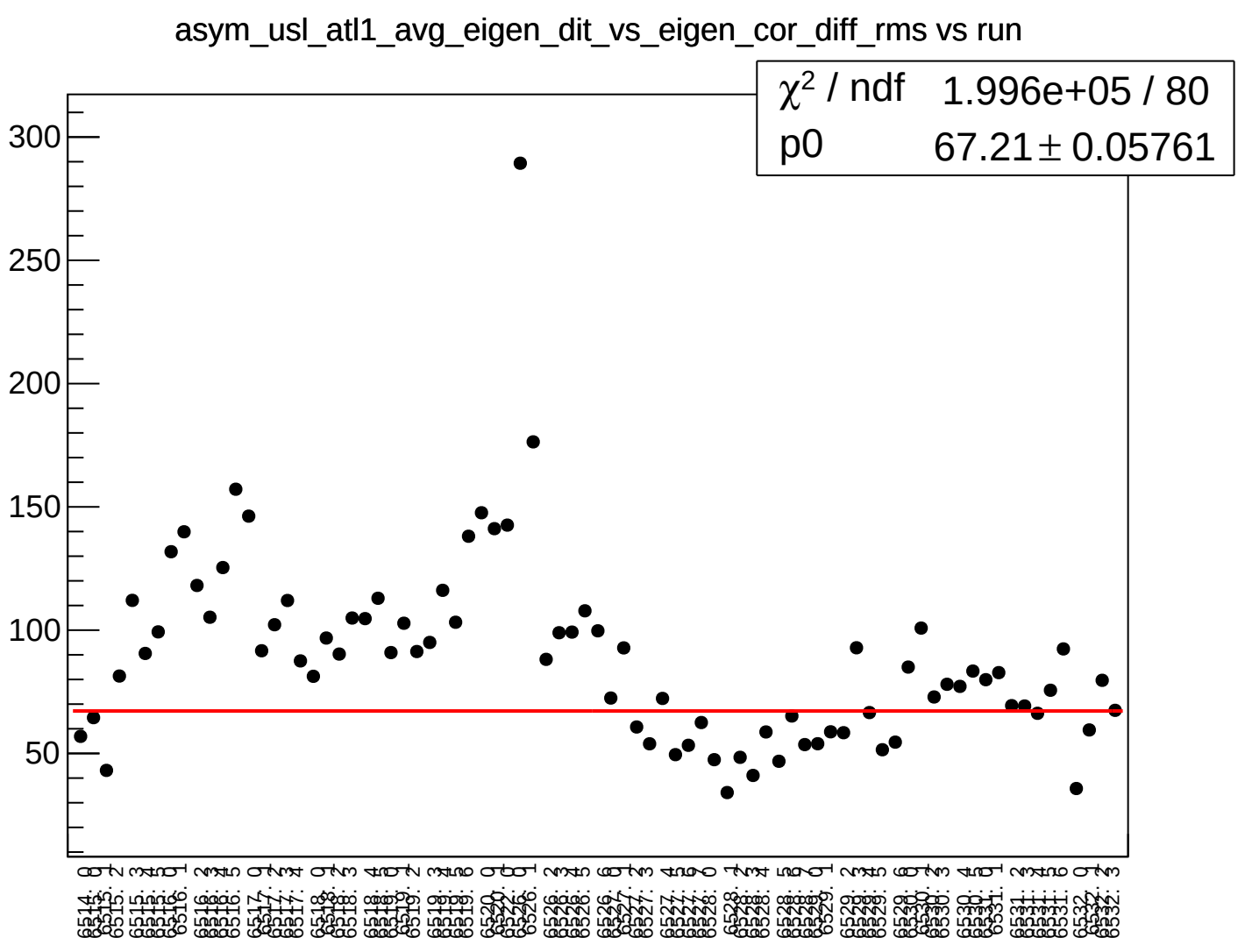

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.9 / 80
p0 0.08873 ± 0.08147
pull
Entries 81
Mean −383.4
Std Dev 0

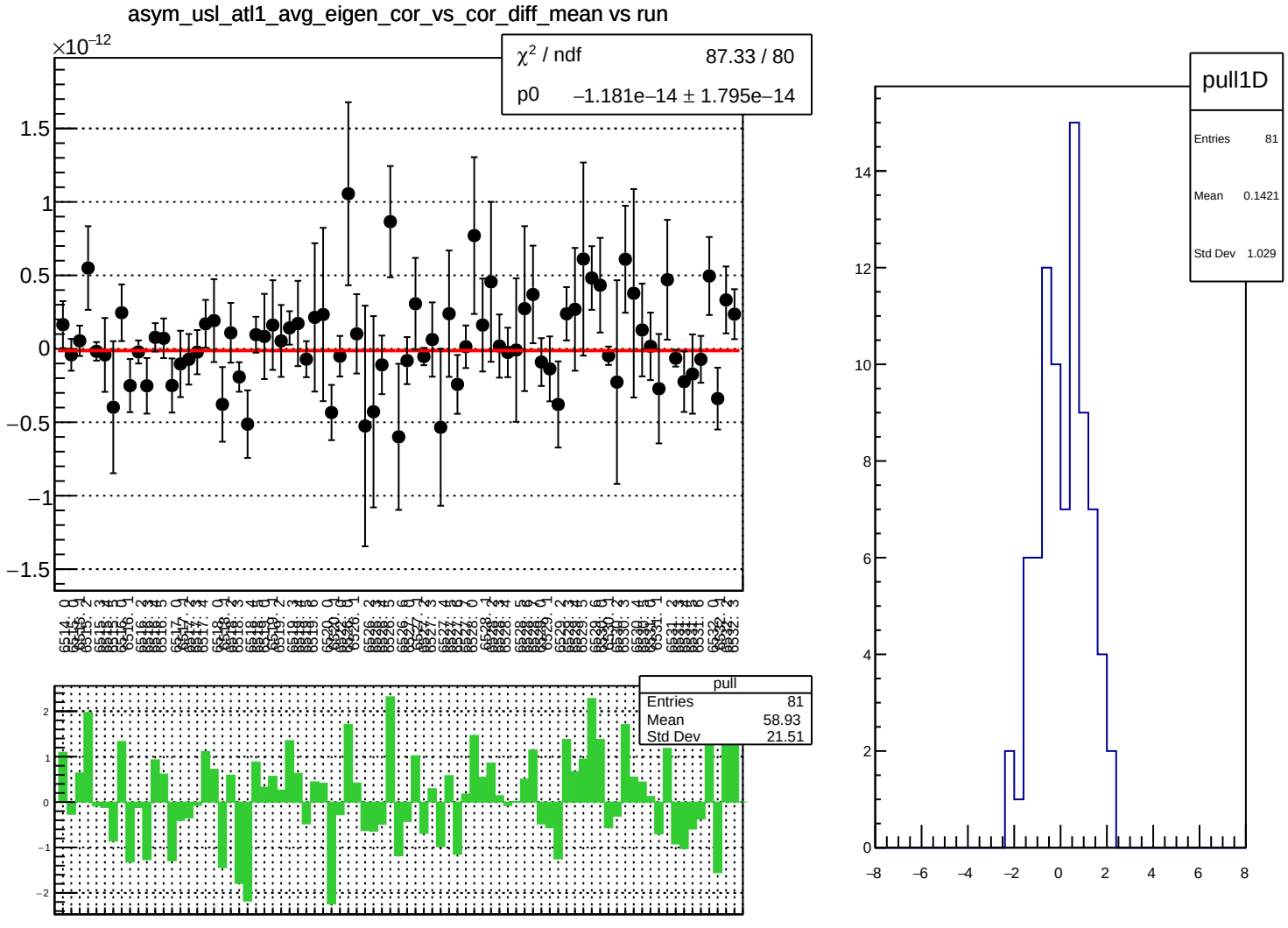

pull1D
Entries 81
Mean −0.01989
Std Dev 1.116

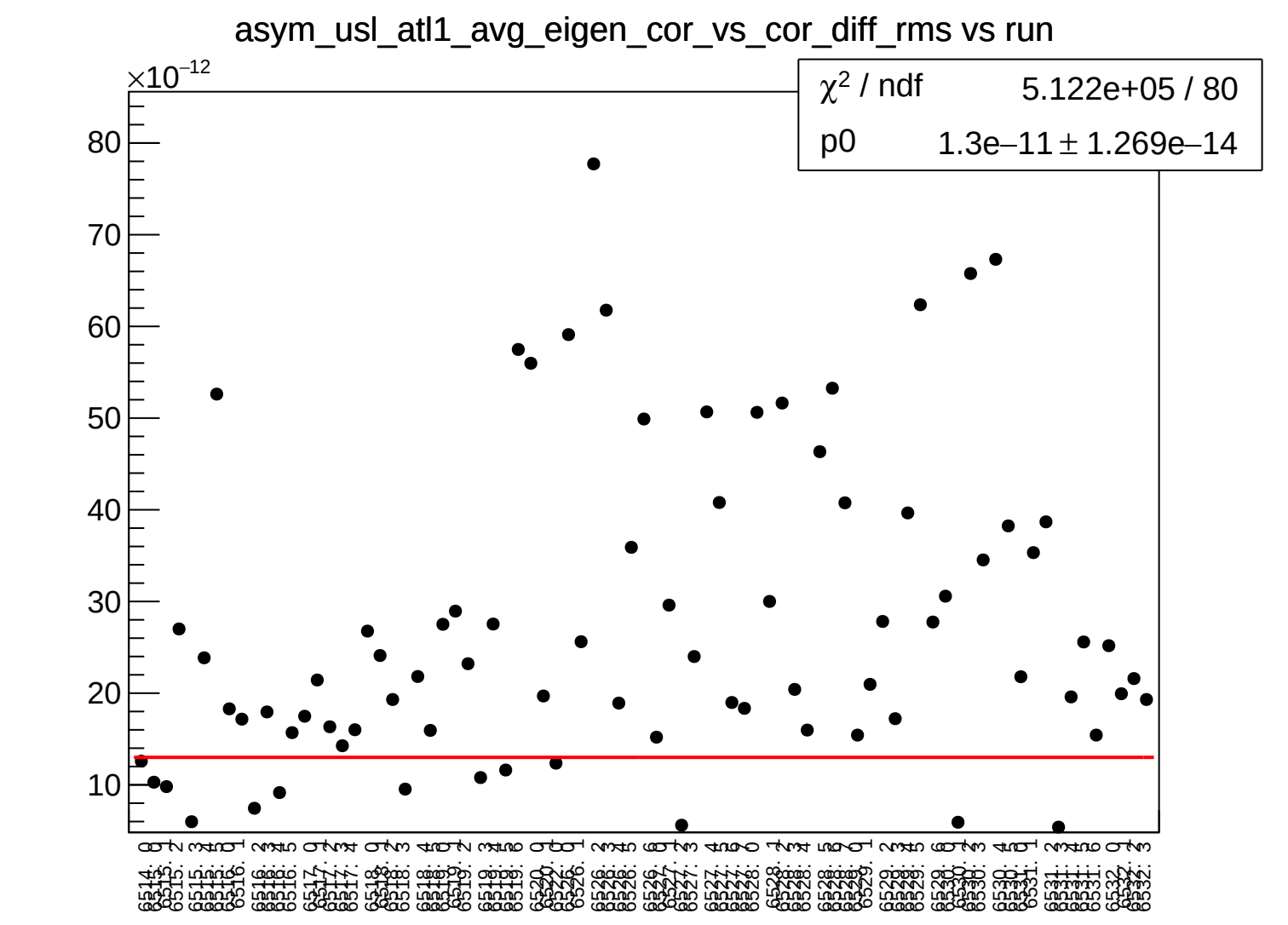

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.996e+05 / 80
p0 67.21 ± 0.05761
300
250
200
150
100
50

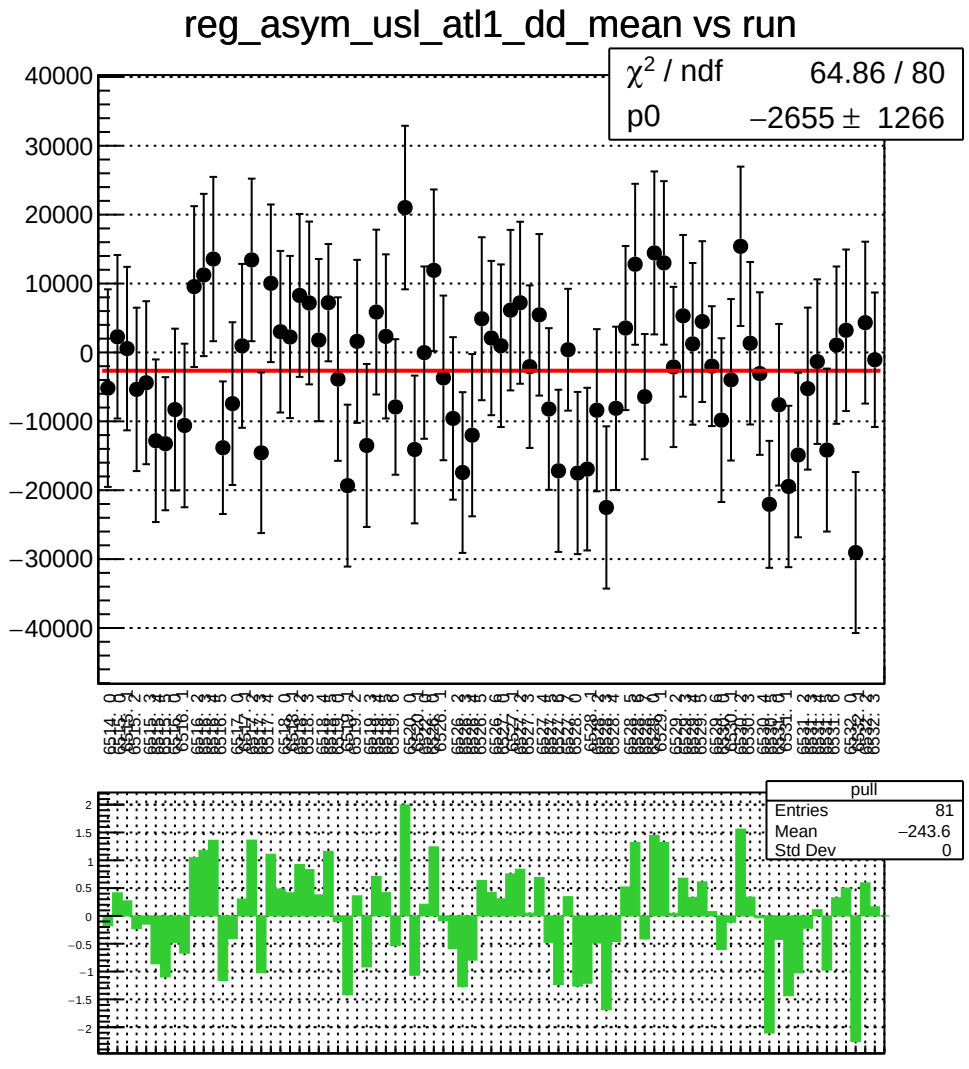

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.9 / 80
p0 0.08873 ± 0.08147
pull
Entries 81
Mean −383.4
Std Dev 0

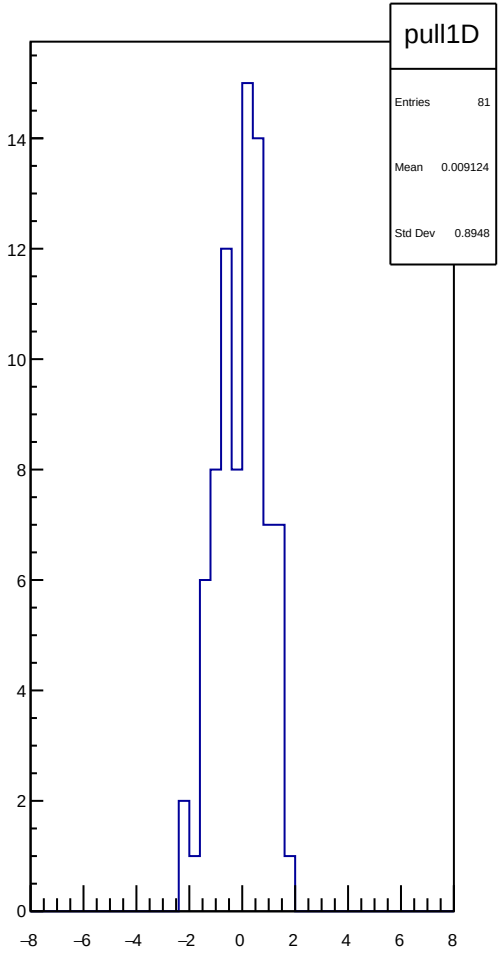

pull1D
Entries 81
Mean −0.01989
Std Dev 1.116

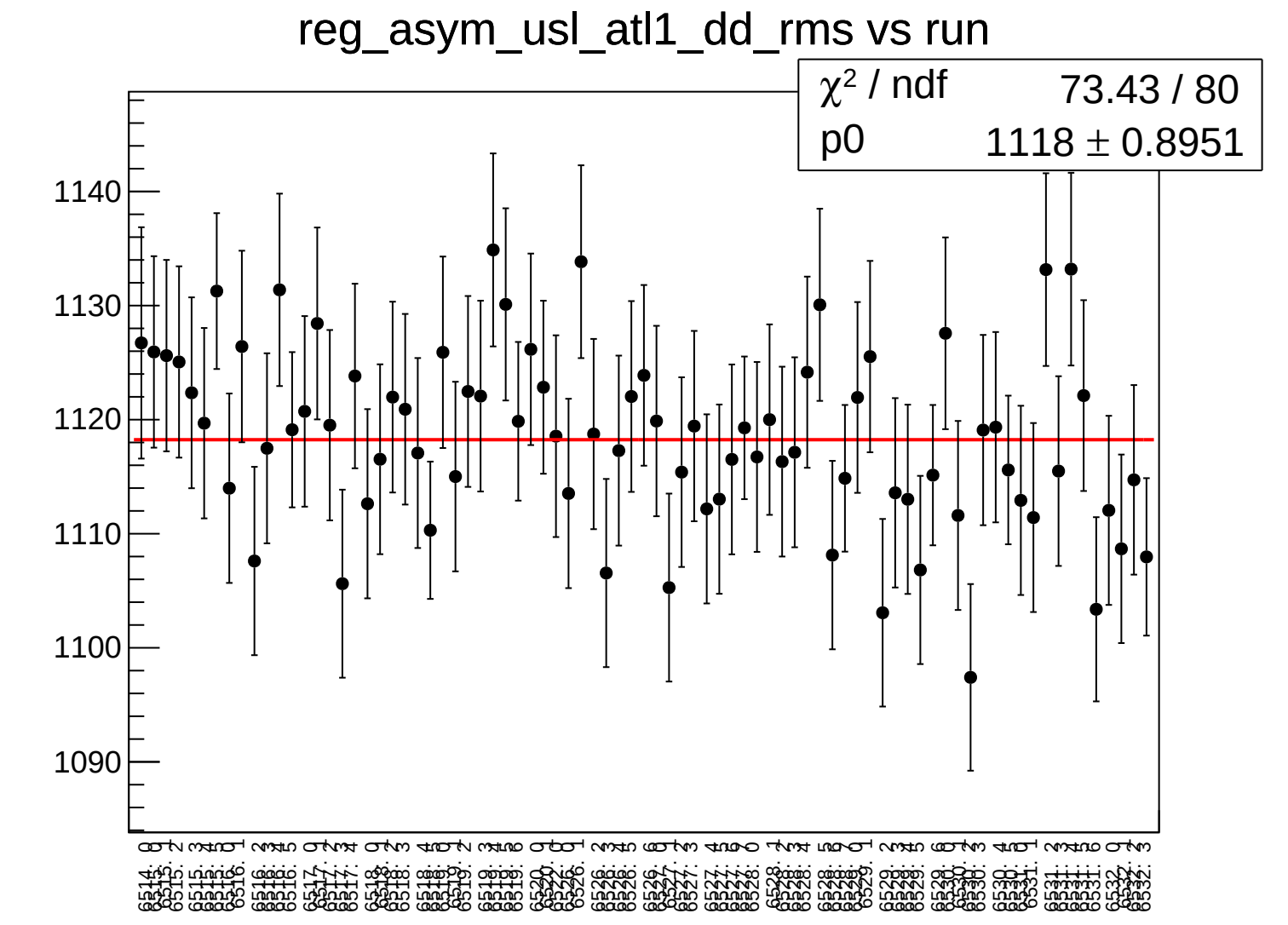

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.996e+05 / 80
p0 67.21 ± 0.05761
300
250
200
150
100
50

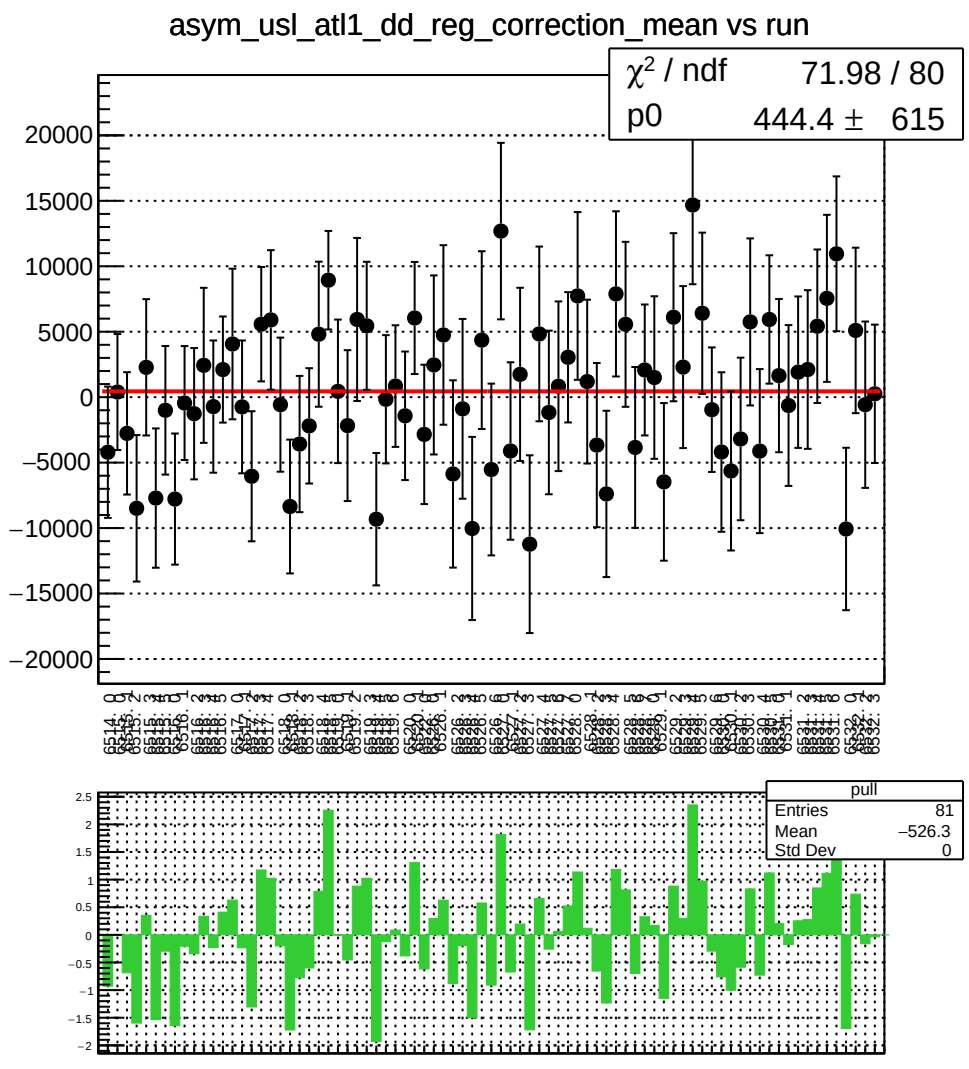

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.33 / 80
p0 −1.181e−14 ± 1.795e−14
pull
Entries 81
Mean 58.93
Std Dev 21.51
pull1D
Entries 81
Mean 0.1421
Std Dev 1.029

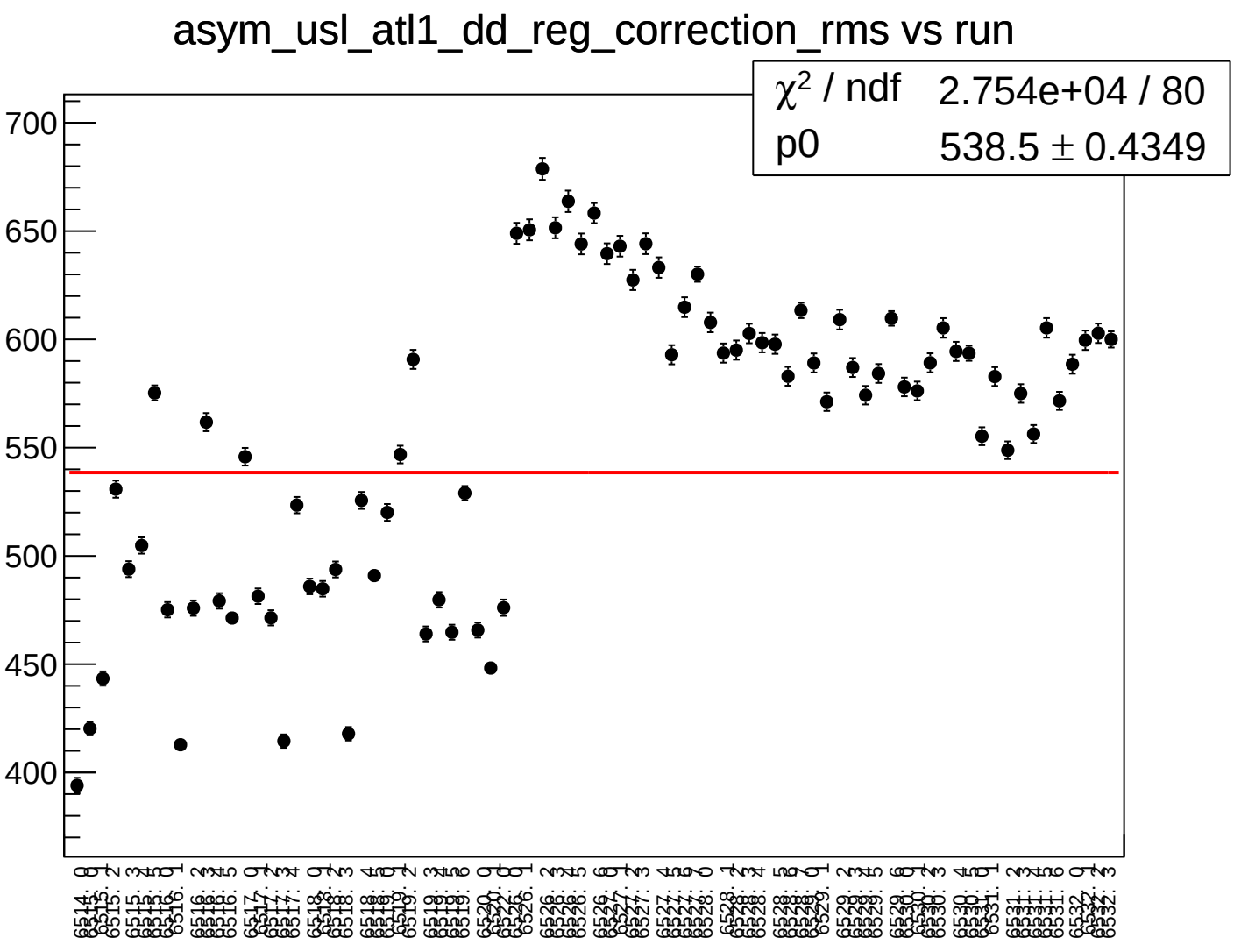

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.122e+05 / 80
p0 1.3e−11 ± 1.269e−14
80
70
60
50
40
30
20
10

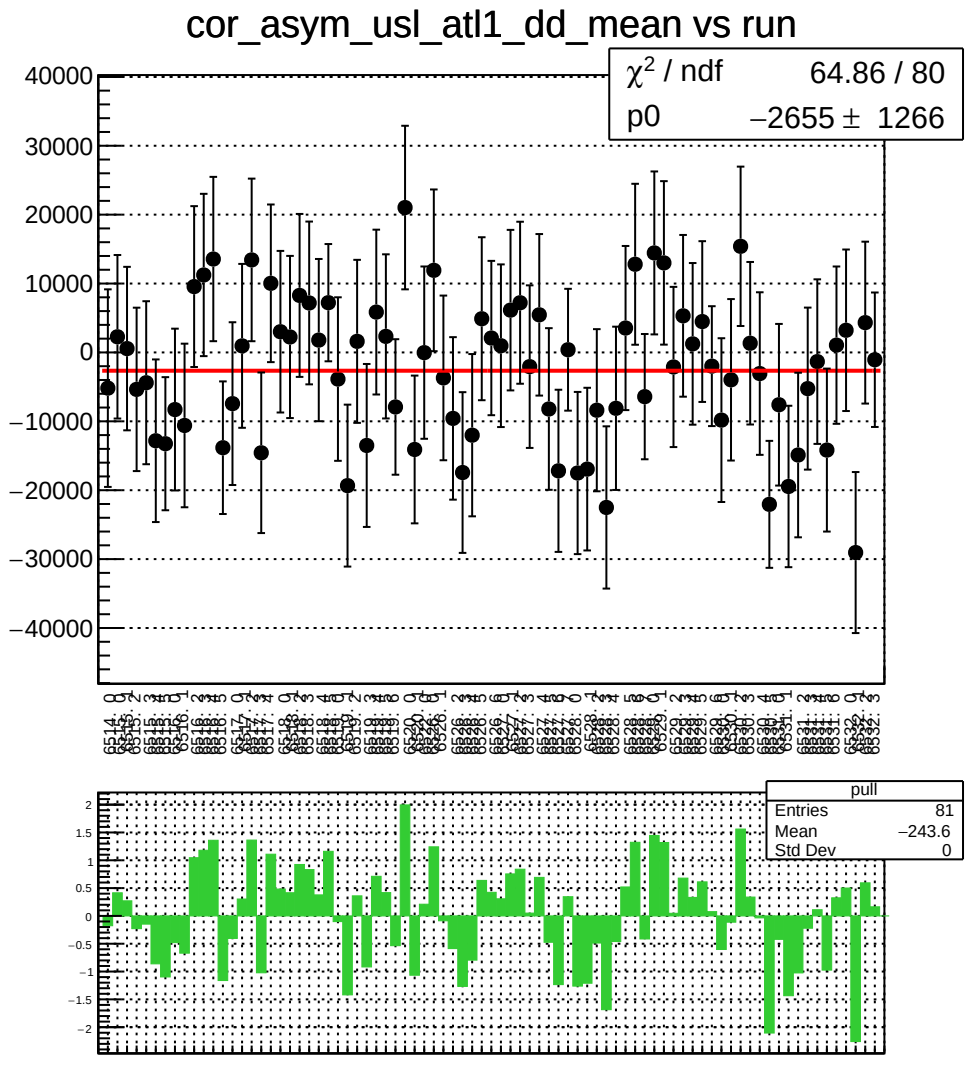

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 64.86 / 80
p0 −2655 ± 1266
pull
Entries 81
Mean −243.6
Std Dev 0

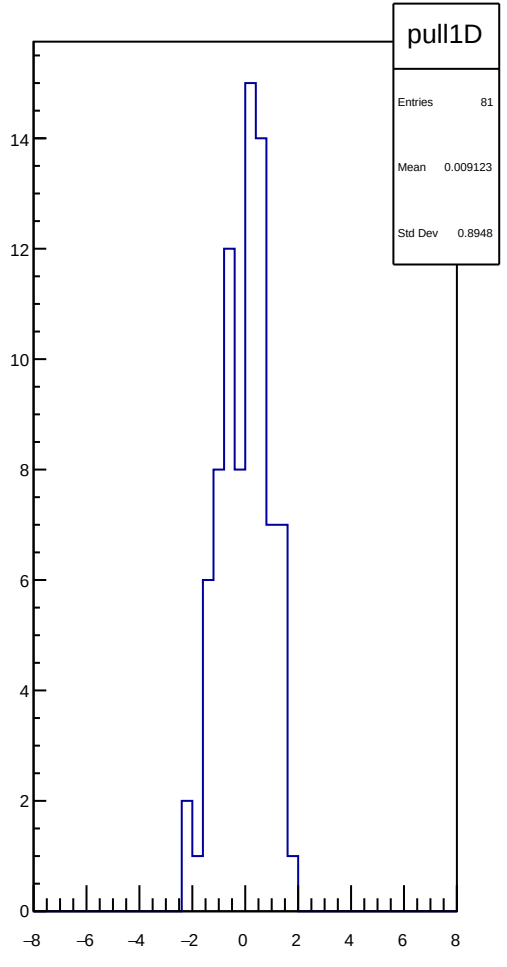

pull1D
Entries 81
Mean 0.009124
Std Dev 0.8948

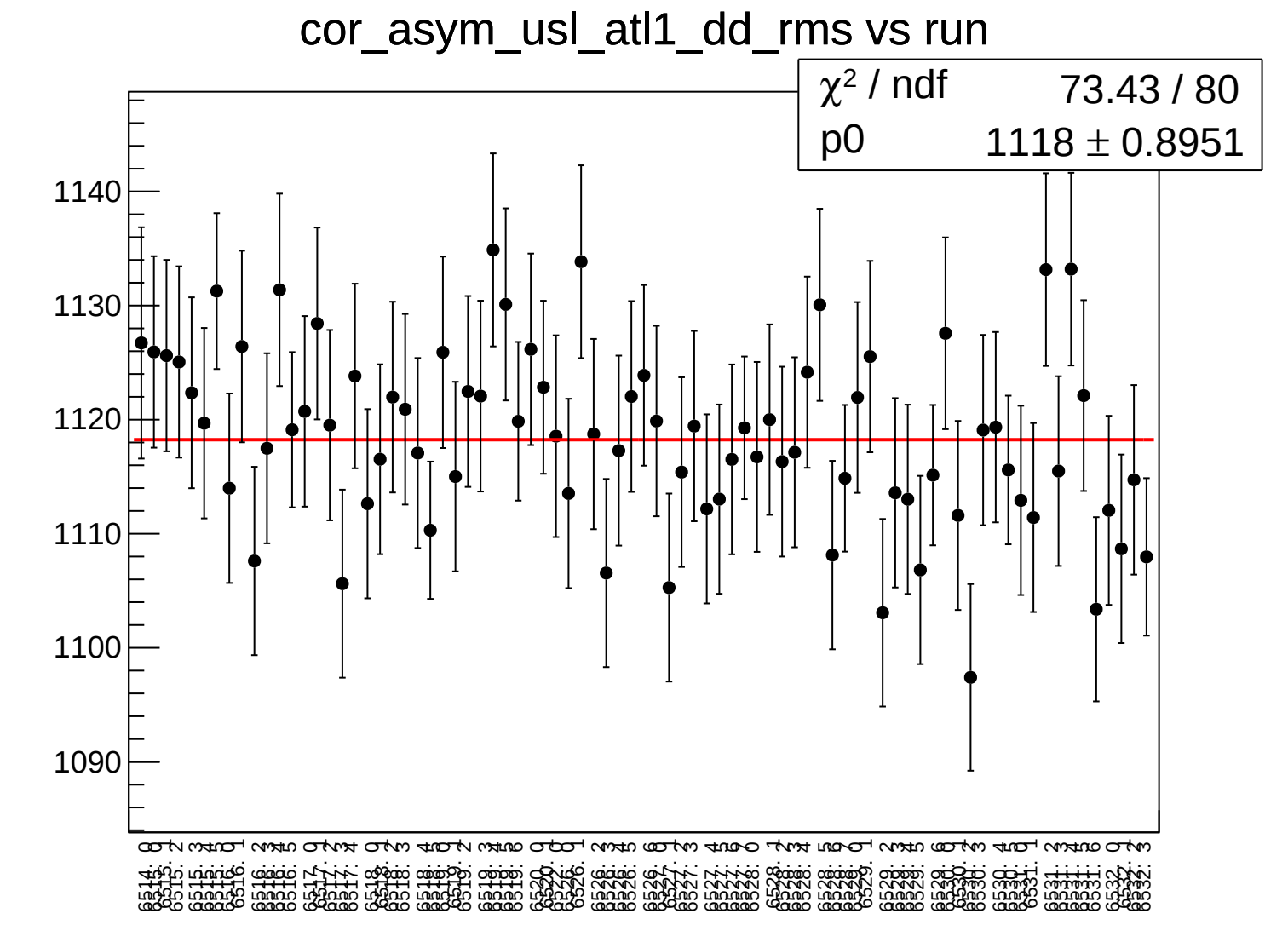

reg_asym_usl_atl1_dd_rms vs run
χ² / ndf 73.43 / 80
p0 1118 ± 0.8951
1140
1130
1120
1110
1100
1090

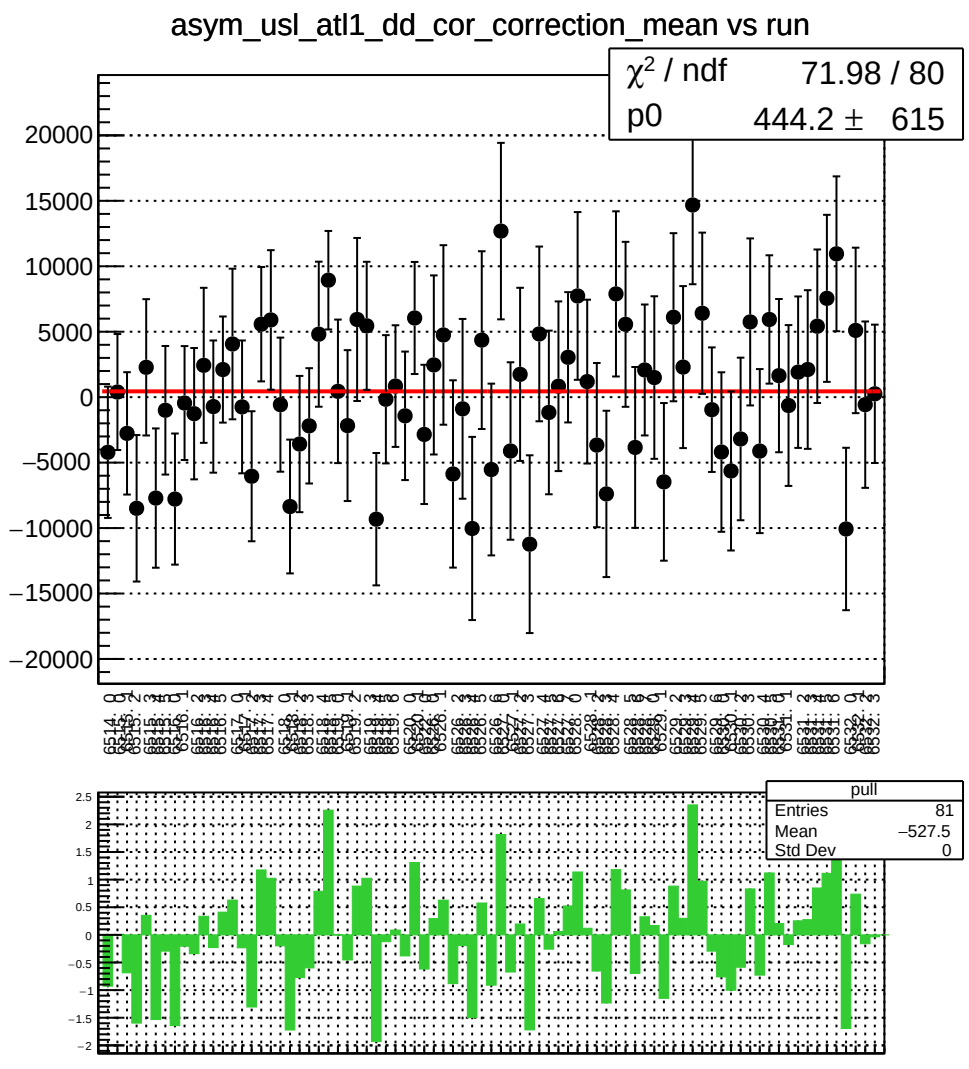

asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 71.98 / 80
p0 444.4 ± 615
pull
Entries 81
Mean −526.3
Std Dev 0
pull1D
Entries 81
Mean −0.008327
Std Dev 0.9426

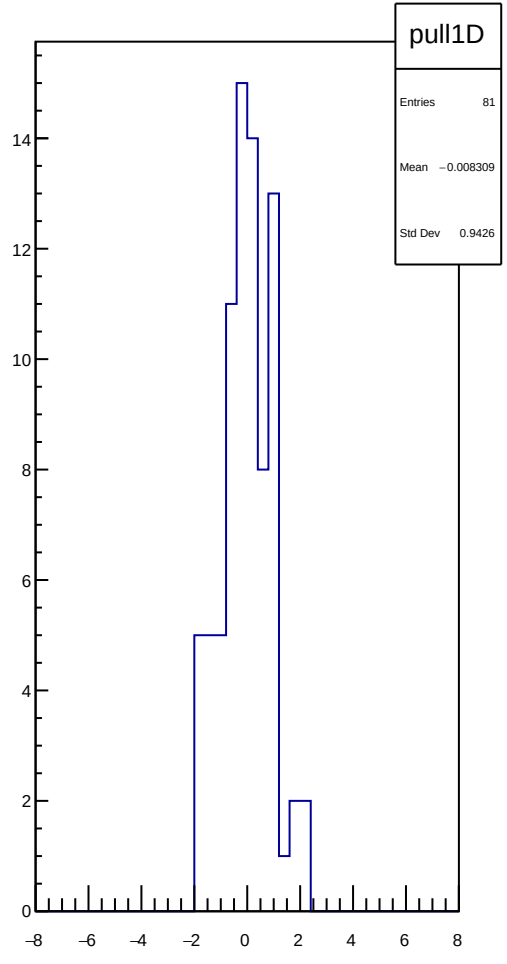

asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 2.754e+04 / 80
p0 538.5 ± 0.4349
700
650
600
550
500
450
400

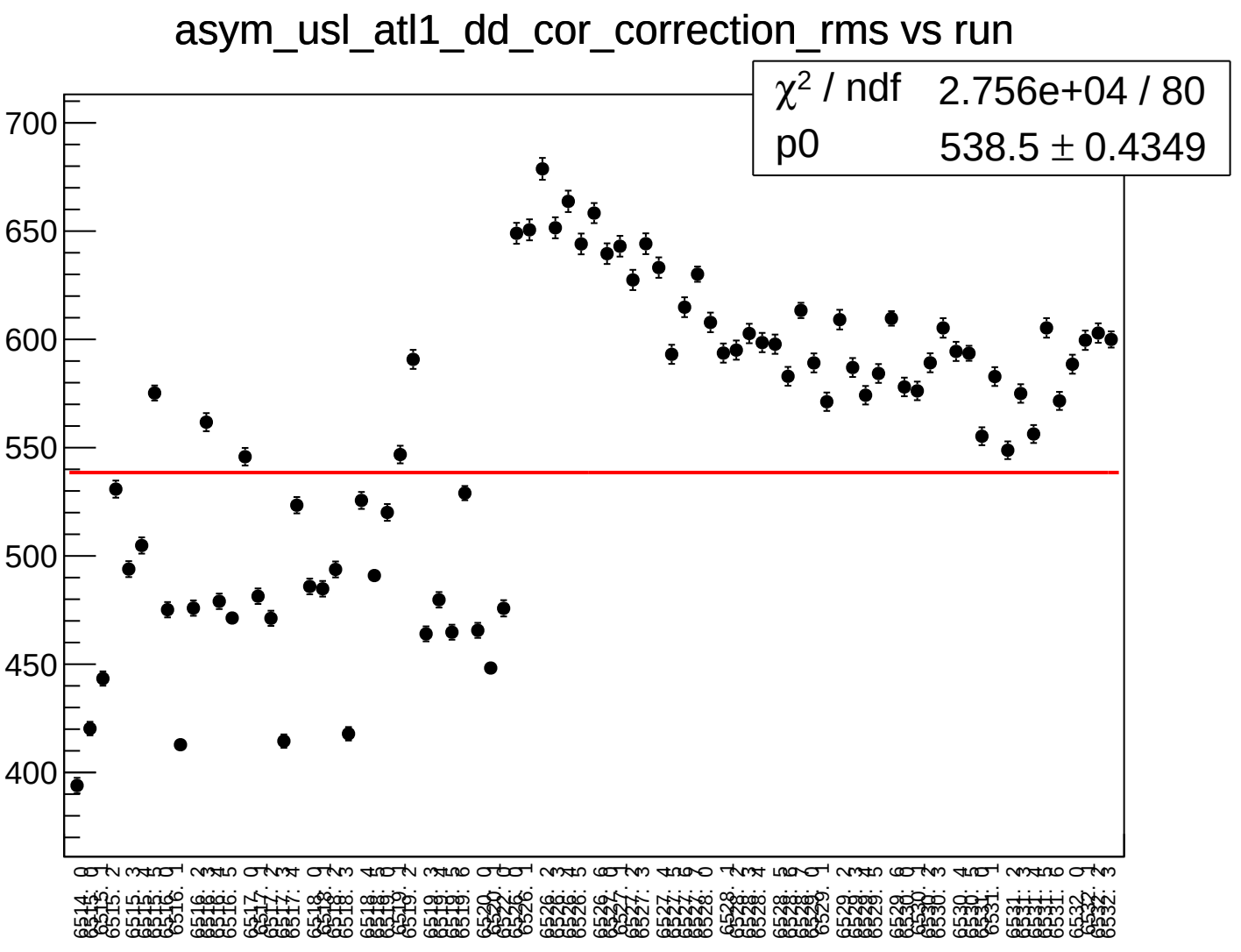

cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 64.86 / 80
p0 −2655 ± 1266
pull
Entries 81
Mean −243.6
Std Dev 0

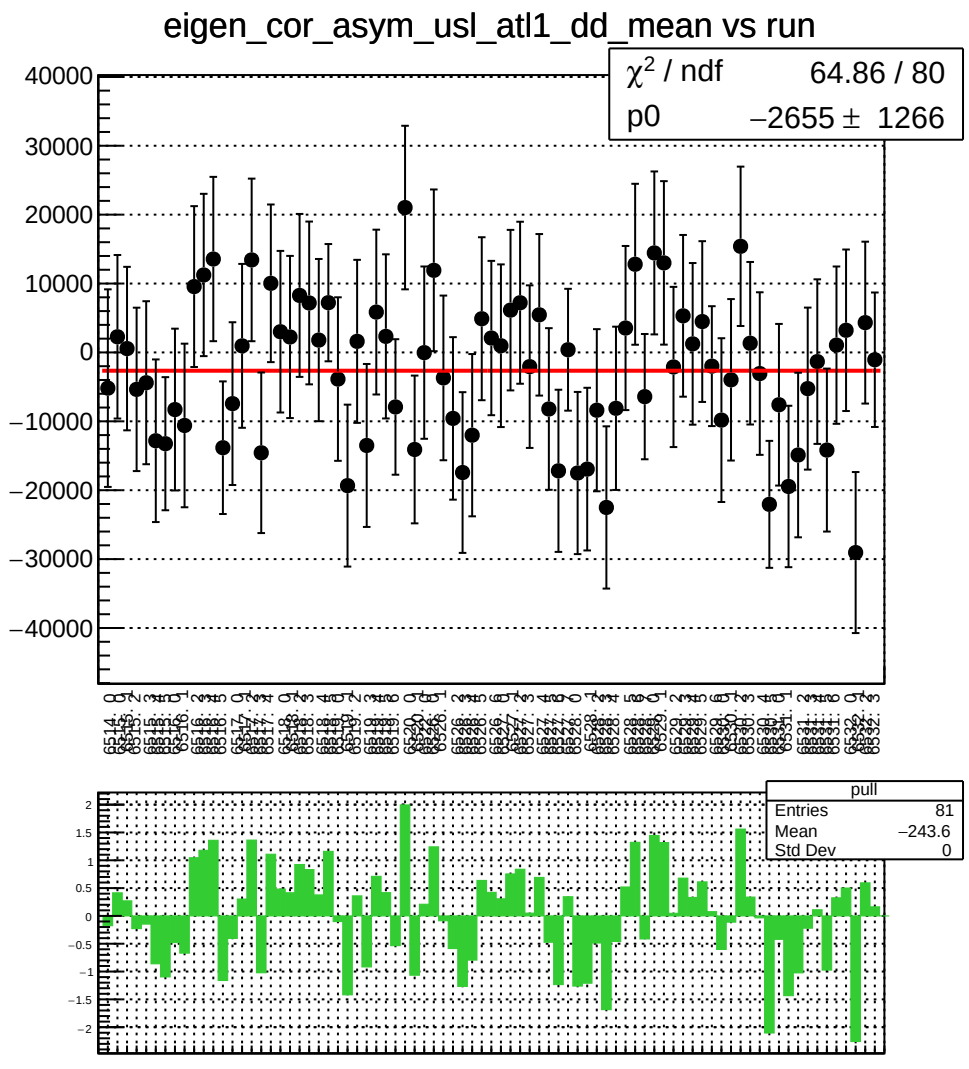

pull1D
Entries 81
Mean 0.009123
Std Dev 0.8948

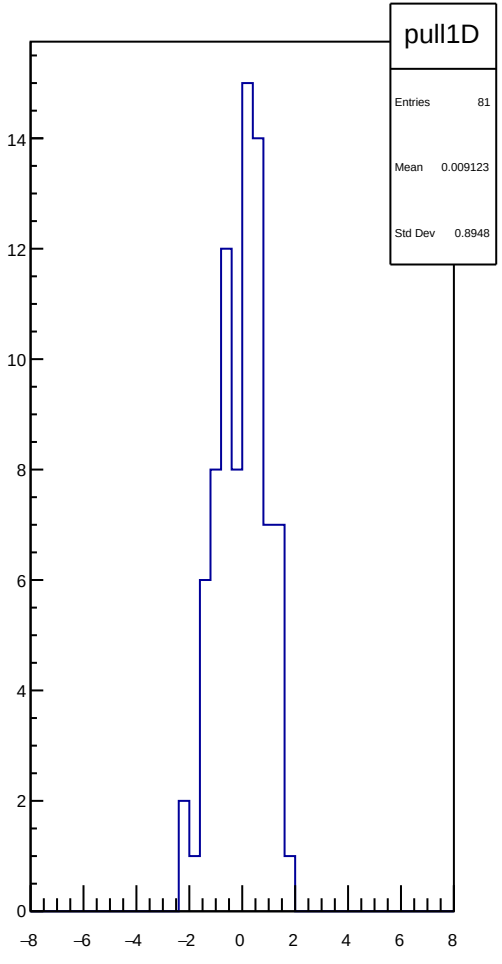

cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 73.43 / 80
p0 1118 ± 0.8951
1140
1130
1120
1110
1100
1090

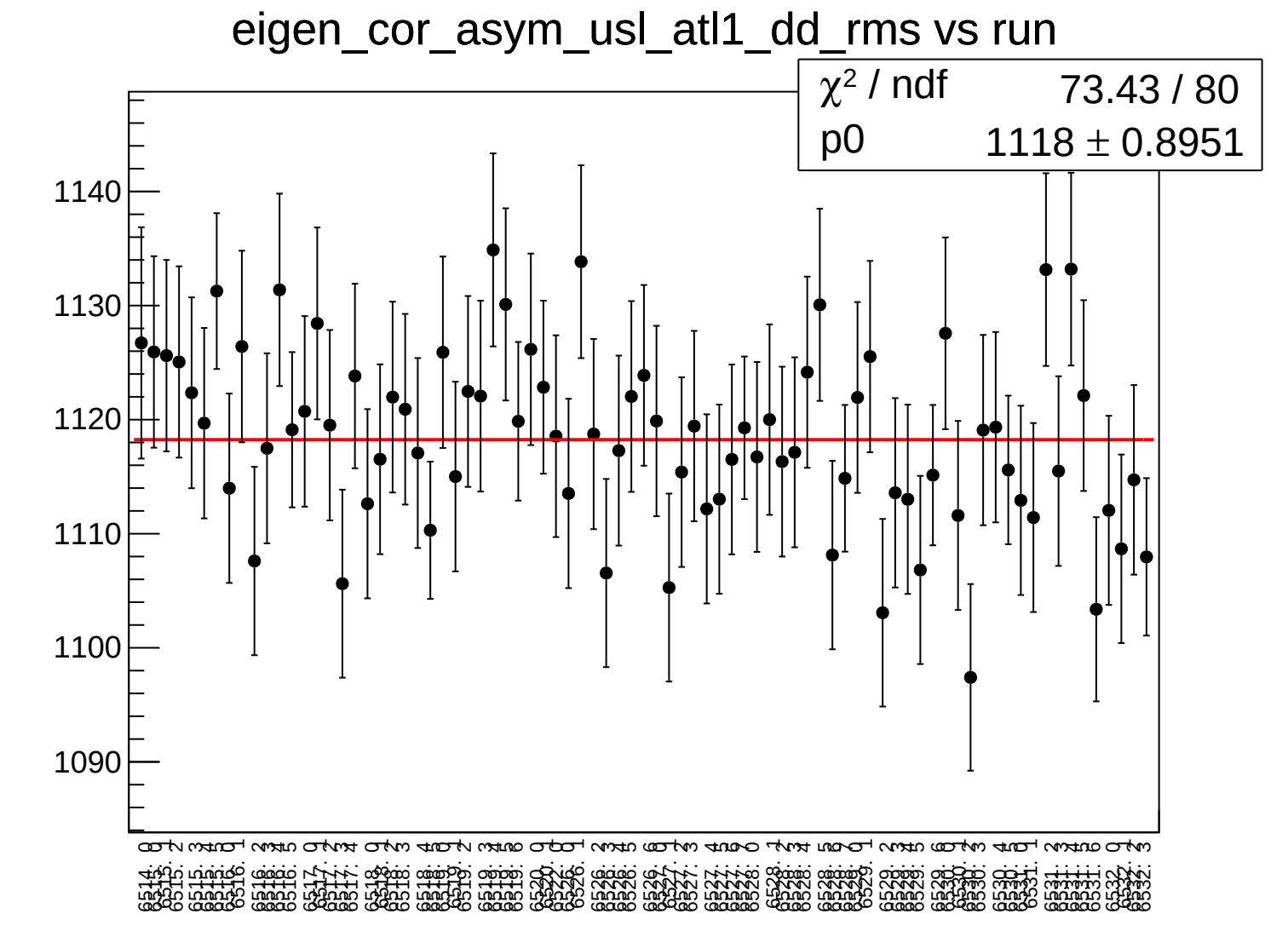

asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 71.98 / 80
p0 444.2 ± 615
pull
Entries 81
Mean −527.5
Std Dev 0

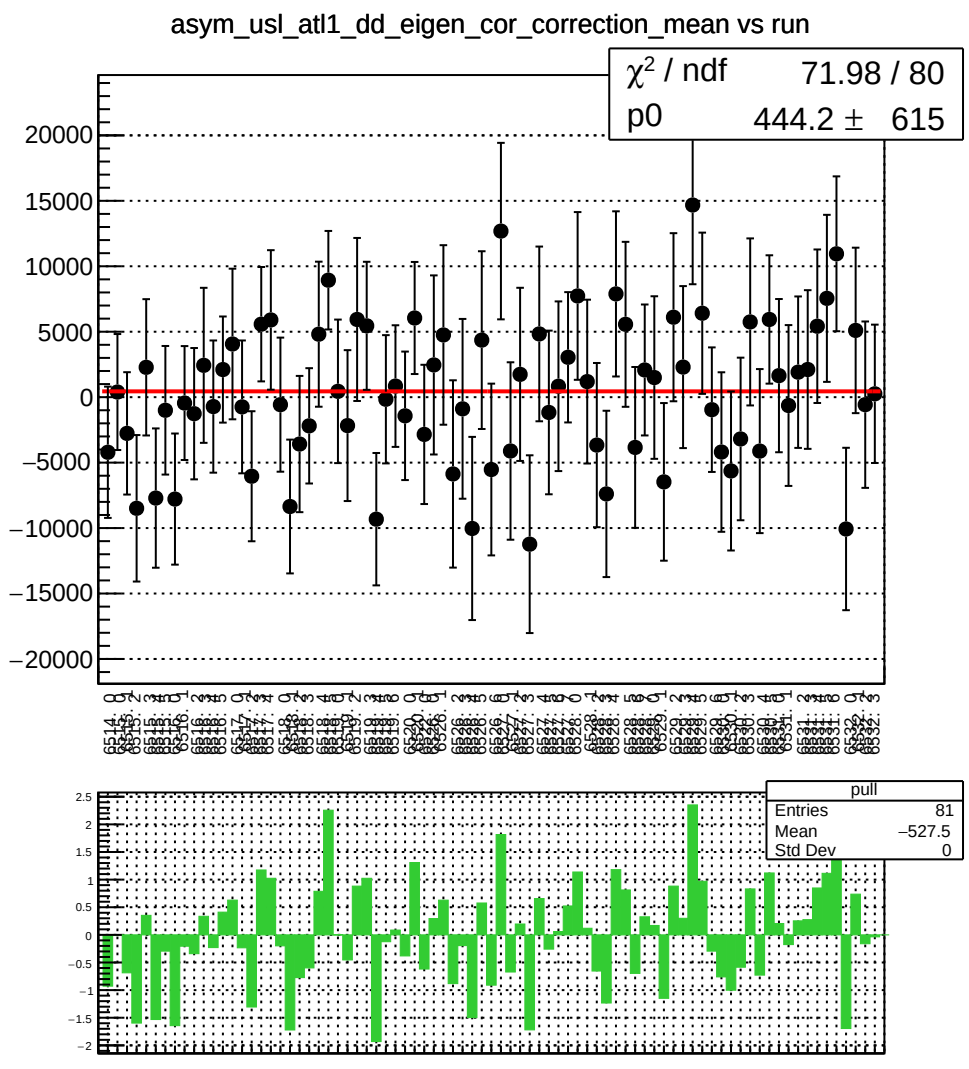

pull1D
Entries 81
Mean −0.008309
Std Dev 0.9426

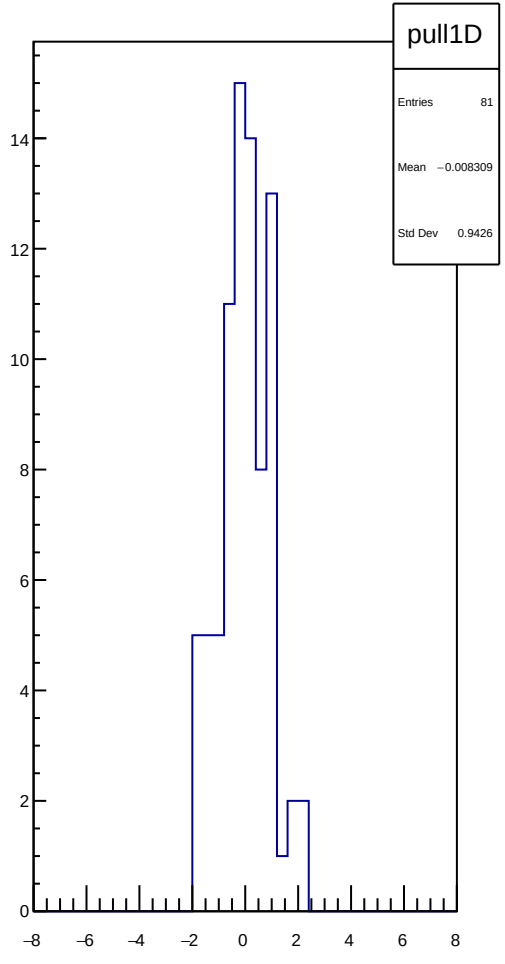

asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 2.756e+04 / 80
p0 538.5 ± 0.4349
700
650
600
550
500
450
400

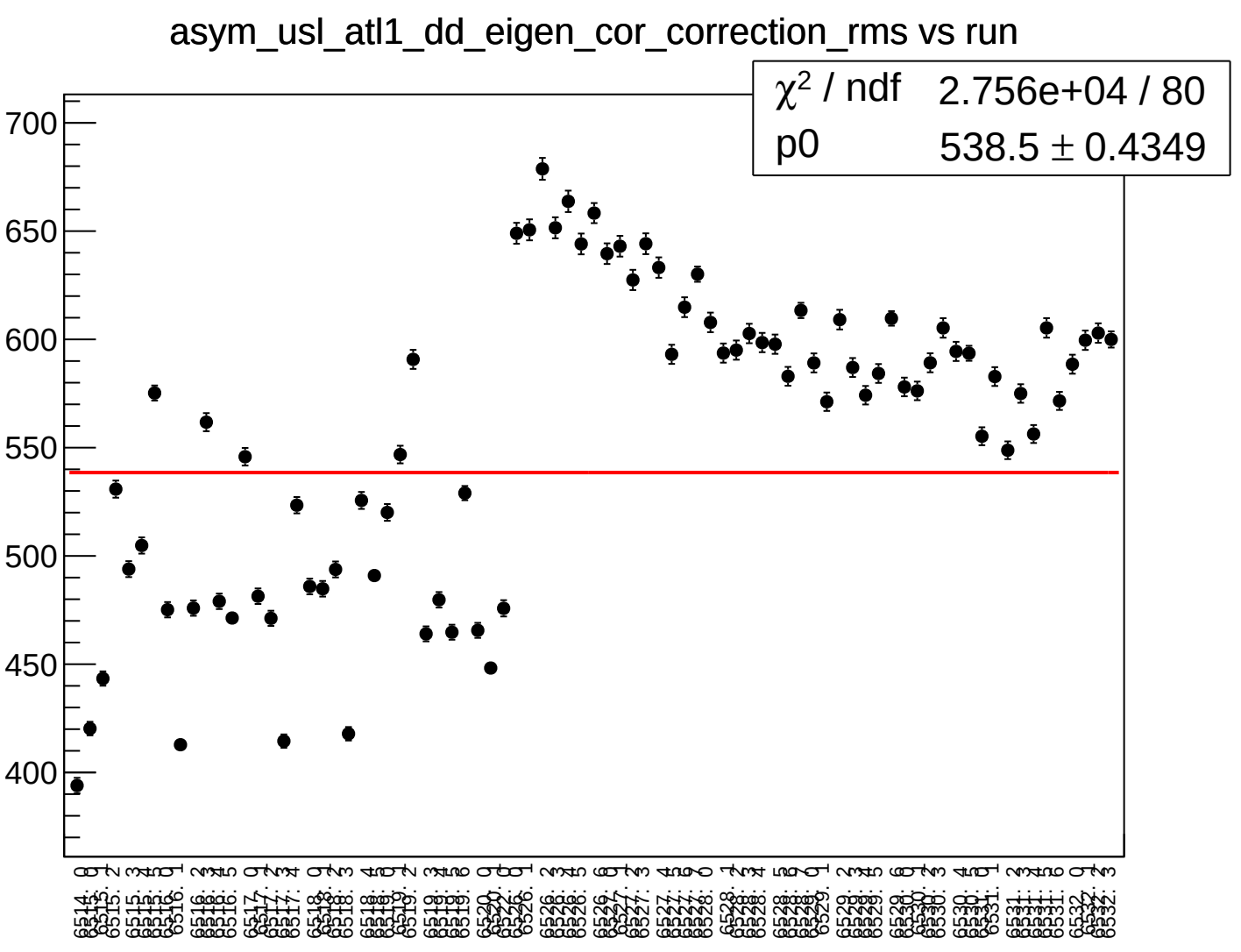

eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 64.86 / 80
p0 −2655 ± 1266
pull
Entries 81
Mean −243.6
Std Dev 0

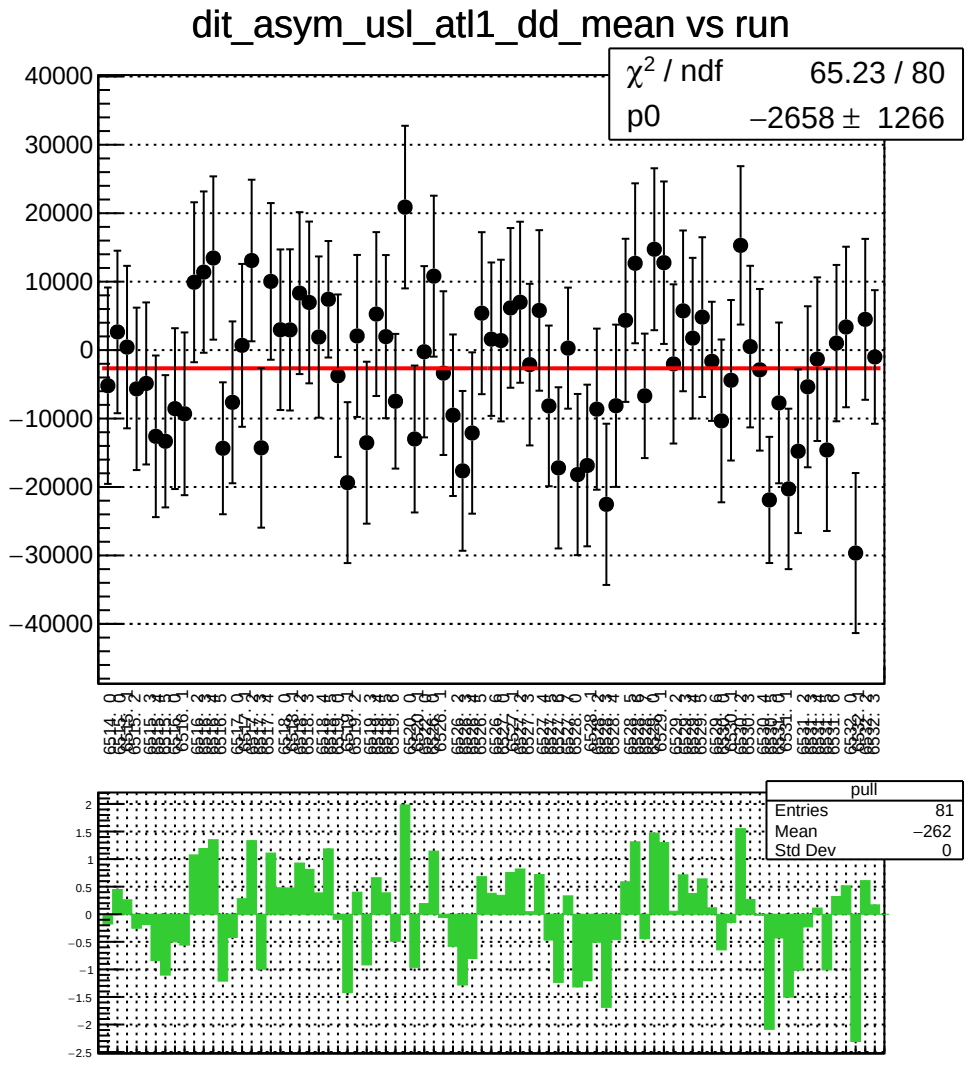

pull1D
Entries 81
Mean 0.009123
Std Dev 0.8948

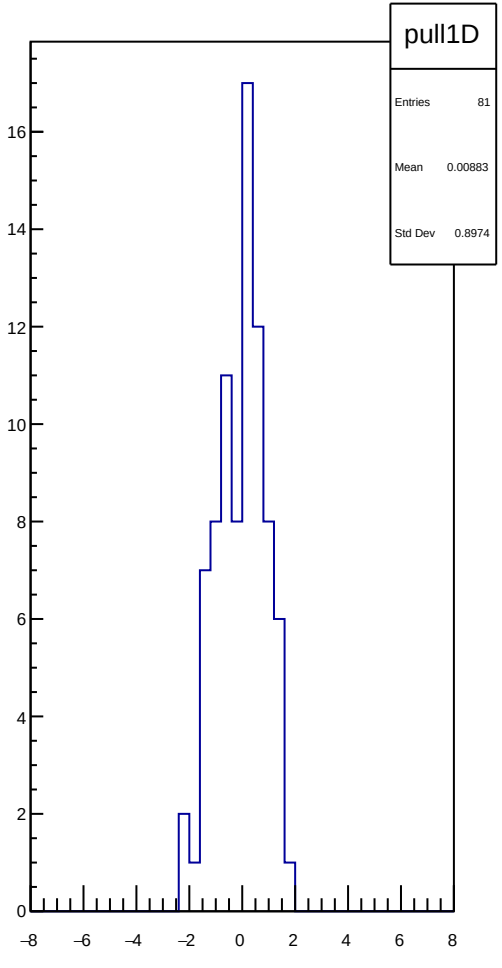

eigen_cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 73.43 / 80
p0 1118 ± 0.8951
1140
1130
1120
1110
1100
1090

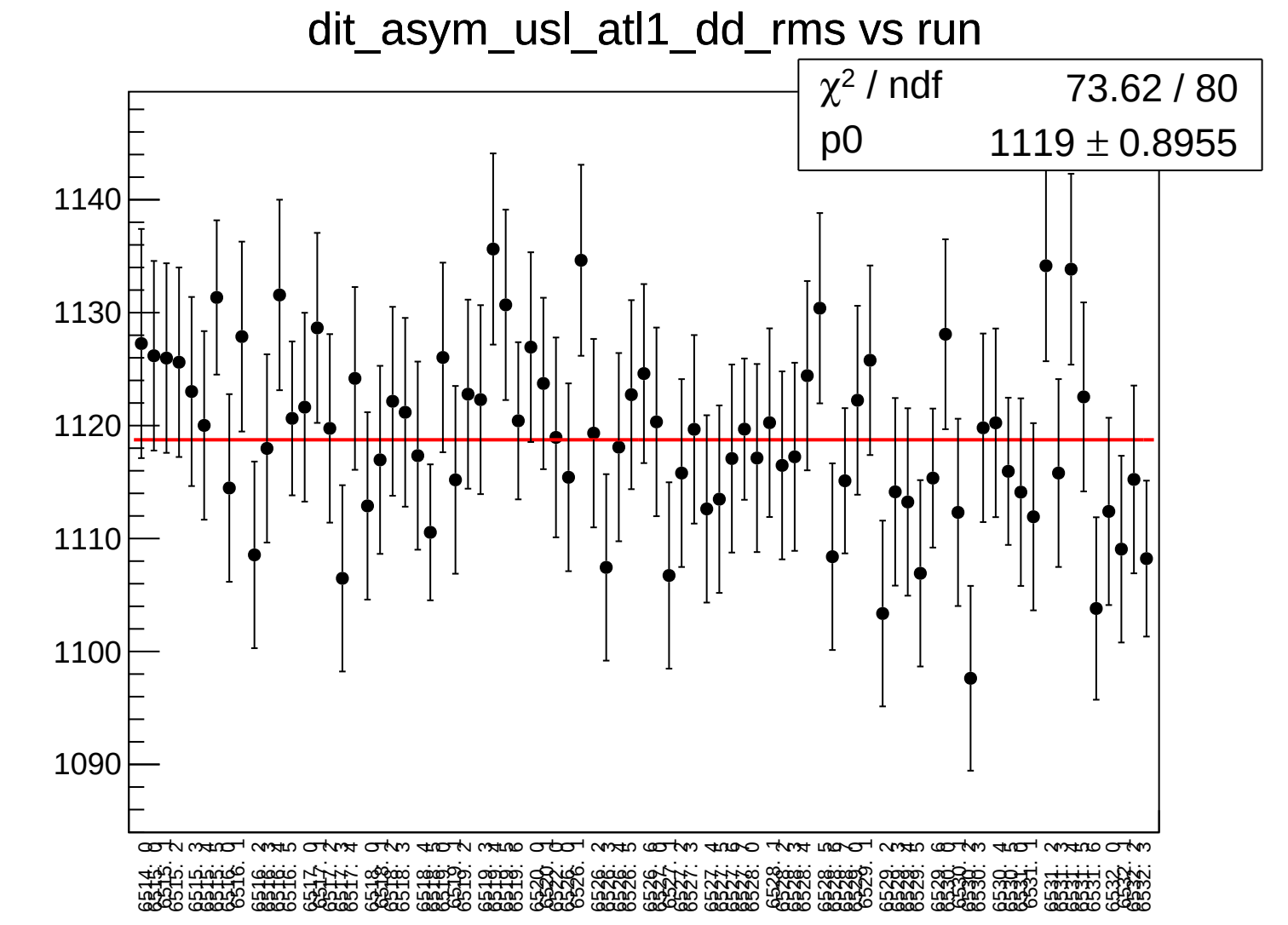

asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 71.98 / 80
p0 444.2 ± 615
pull
Entries 81
Mean −527.5
Std Dev 0

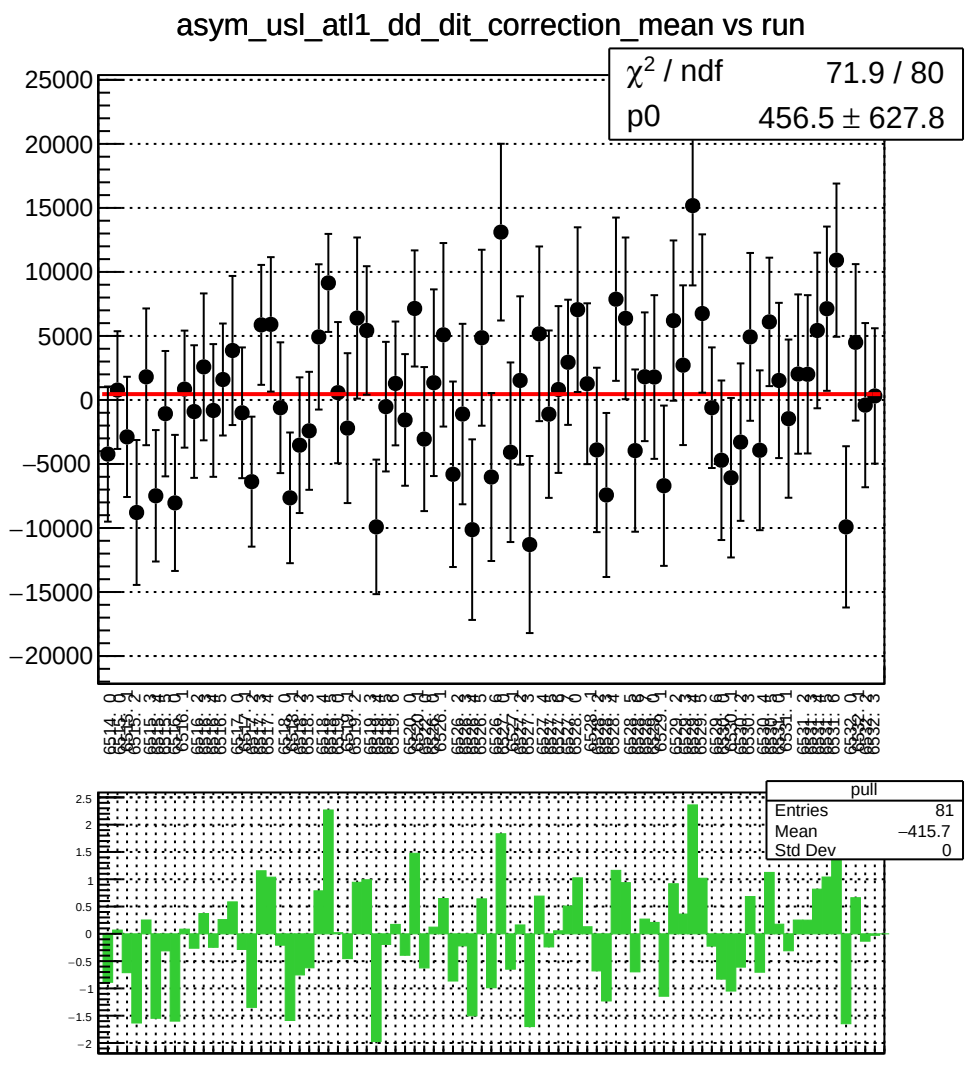

pull1D
Entries 81
Mean −0.008309
Std Dev 0.9426

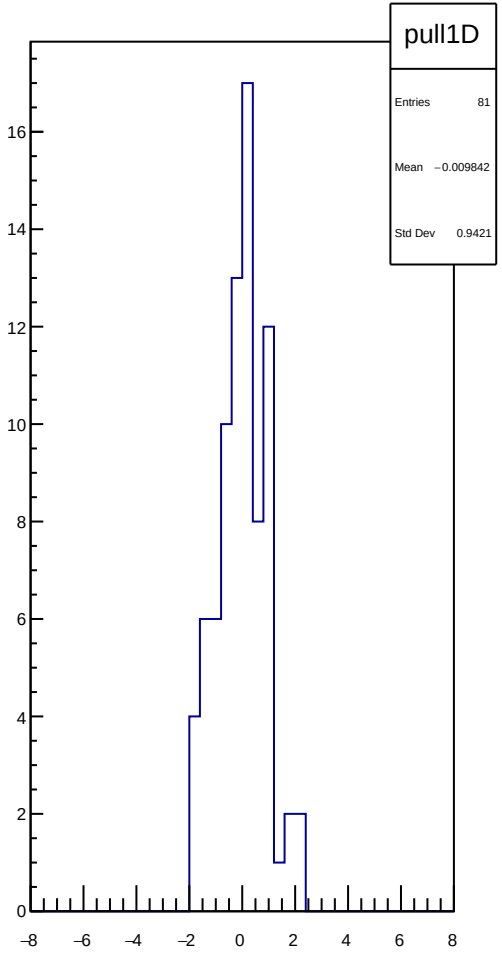

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.756e+04 / 80
p0 538.5 ± 0.4349
700
650
600
550
500
450
400

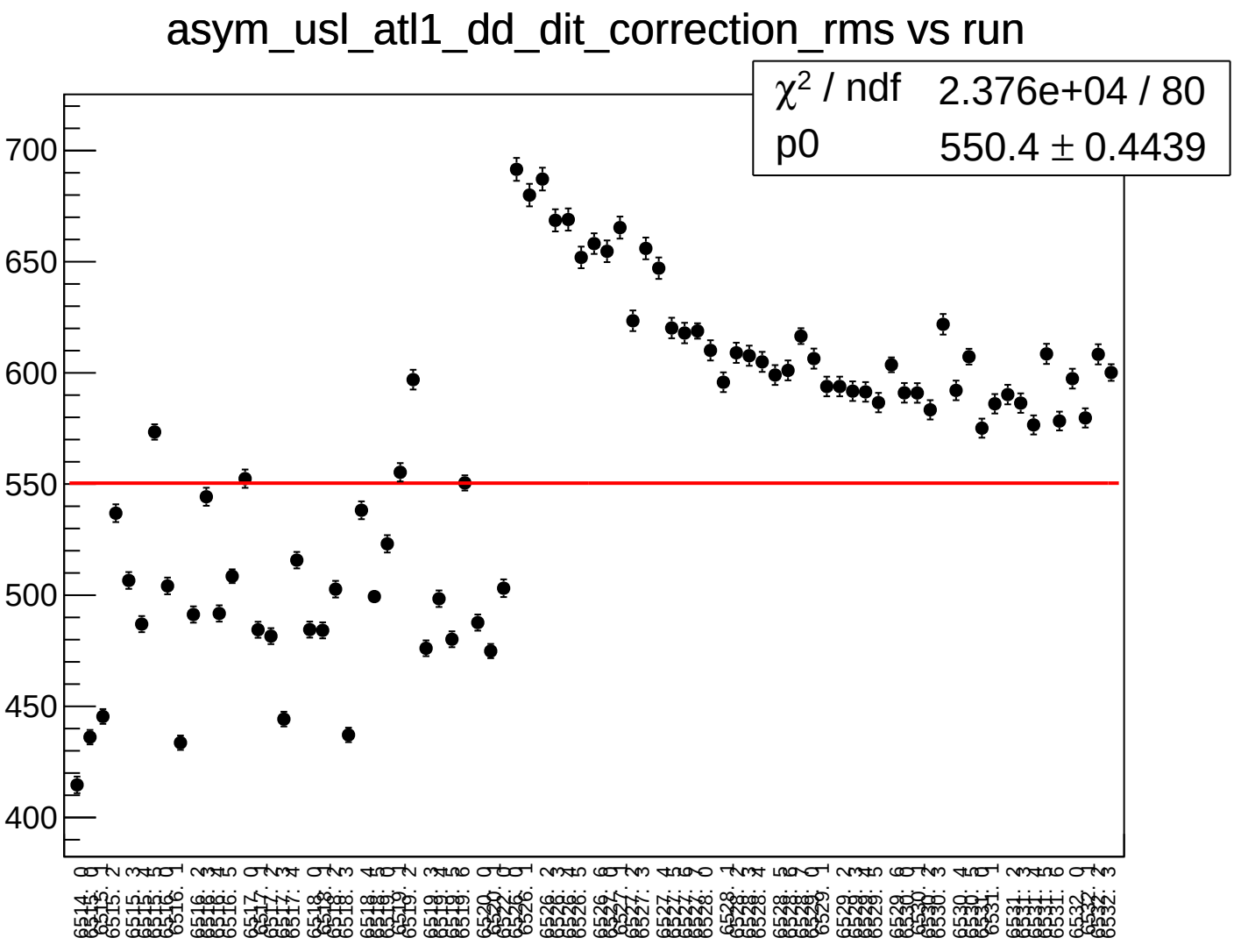

dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 65.23 / 80
p0 −2658 ± 1266
pull
Entries 81
Mean −262
Std Dev 0

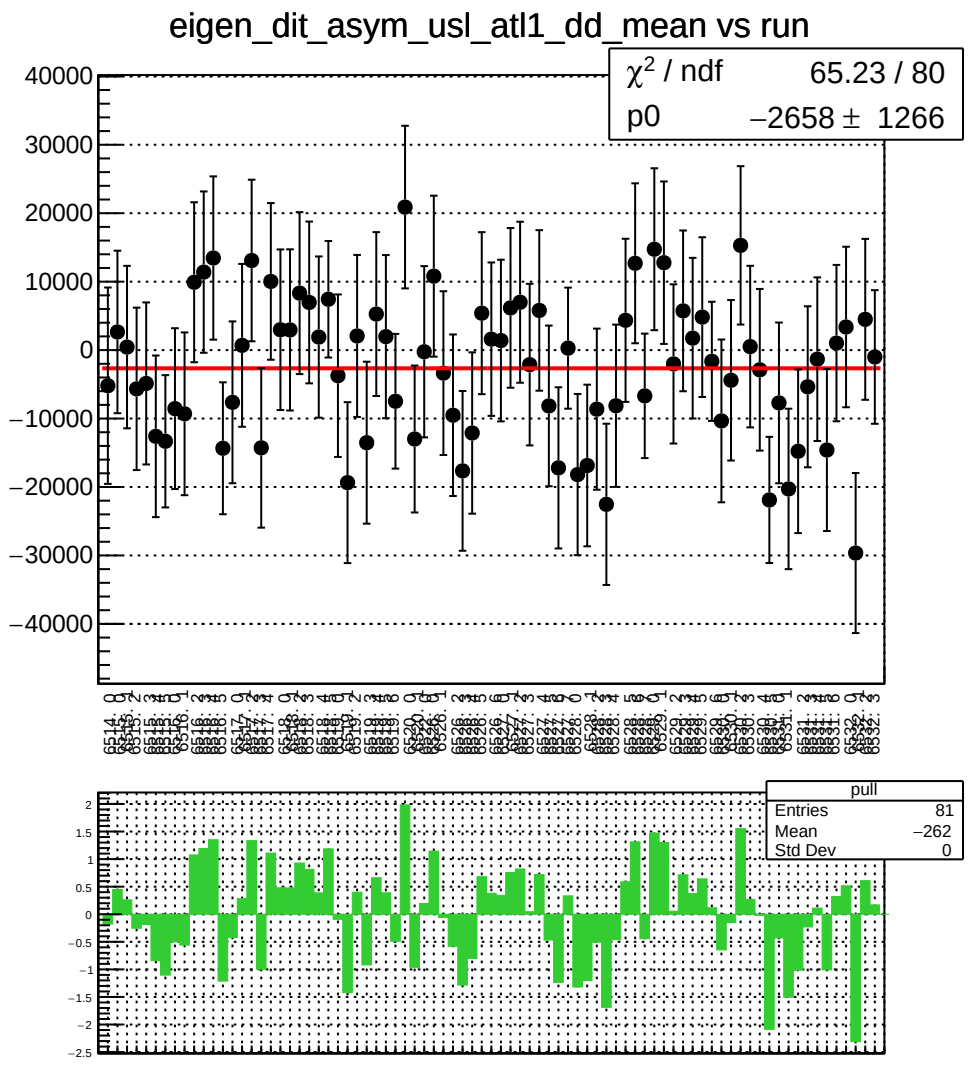

pull1D
Entries 81
Mean 0.00883
Std Dev 0.8974

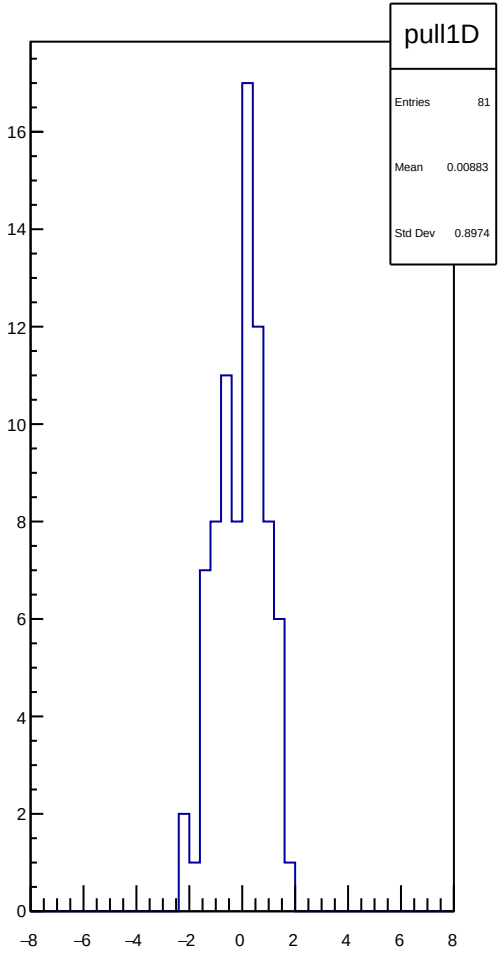

dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 73.62 / 80
p0 1119 ± 0.8955
1140
1130
1120
1110
1100
1090

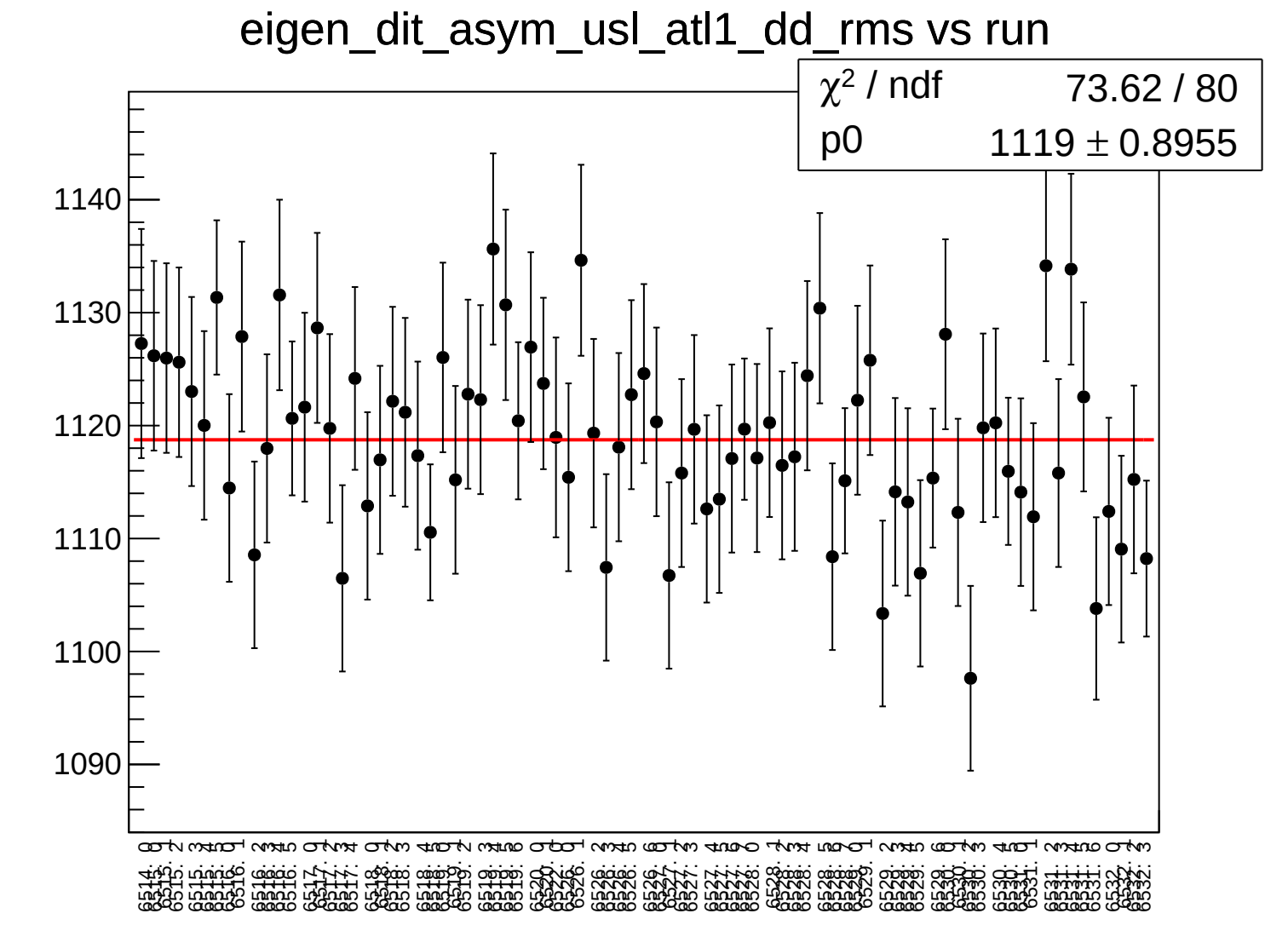

asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 71.9 / 80
p0 456.5 ± 627.8
pull
Entries 81
Mean −415.7
Std Dev 0

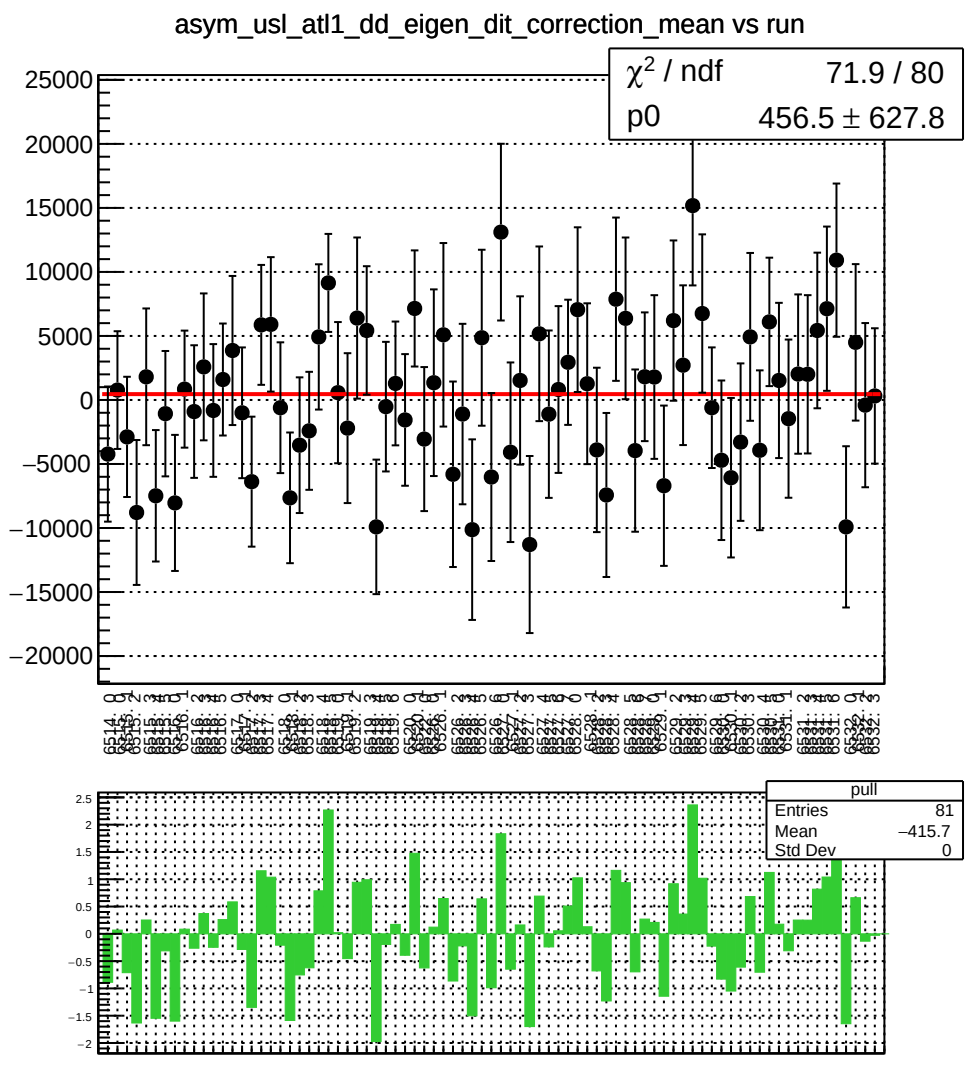

pull1D
Entries 81
Mean −0.009842
Std Dev 0.9421

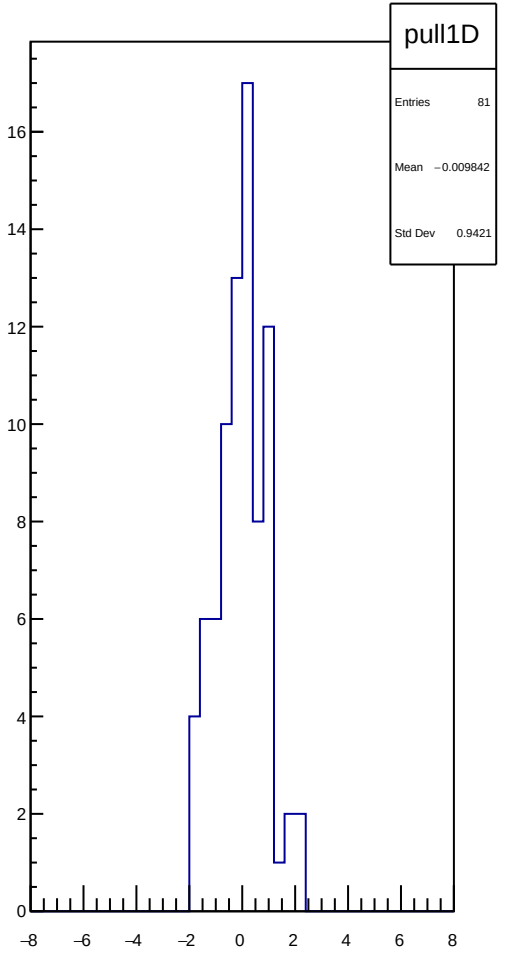

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 2.376e+04 / 80
p0 550.4 ± 0.4439
700
650
600
550
500
450
400

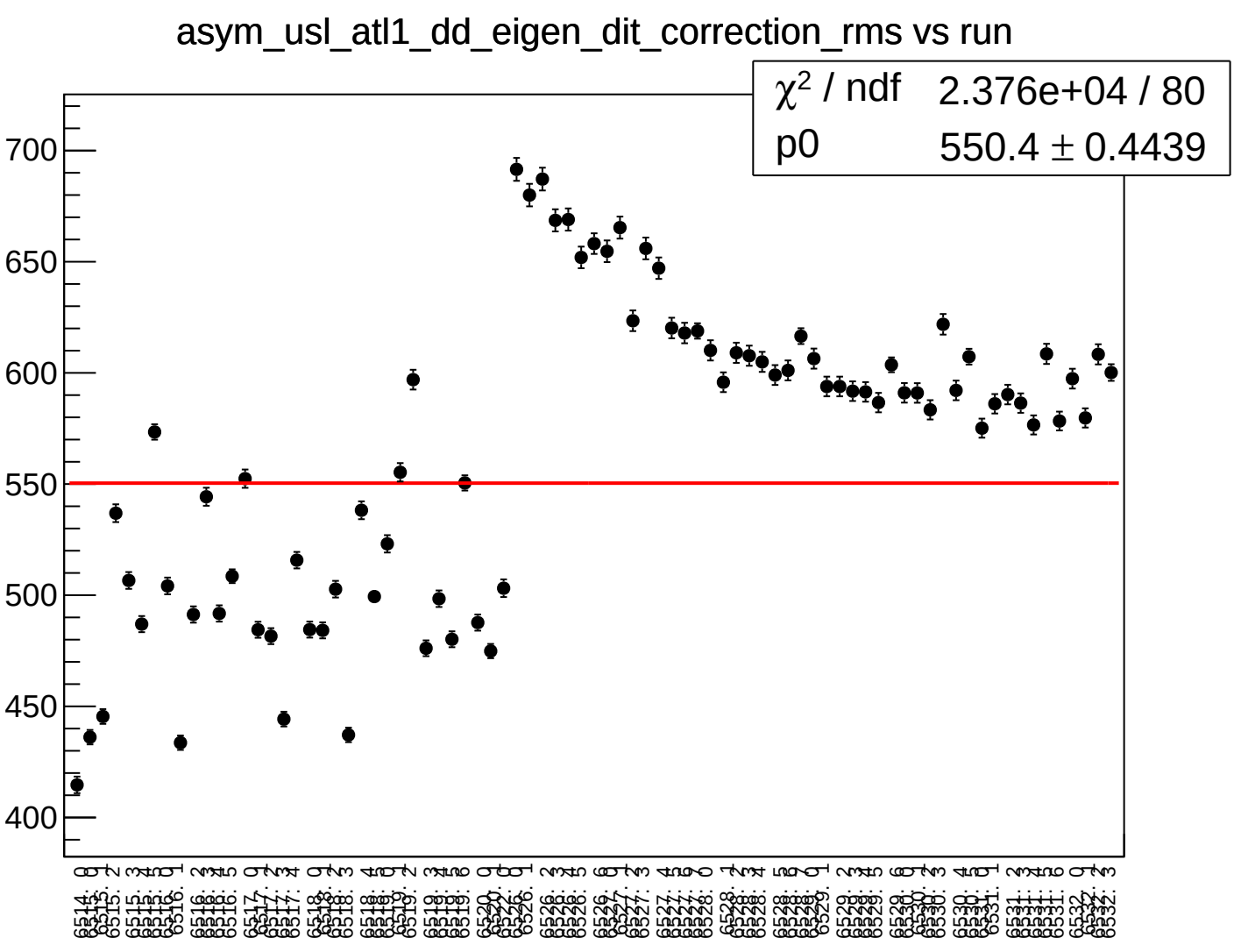

eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 65.23 / 80
p0 −2658 ± 1266
pull
Entries 81
Mean −262
Std Dev 0

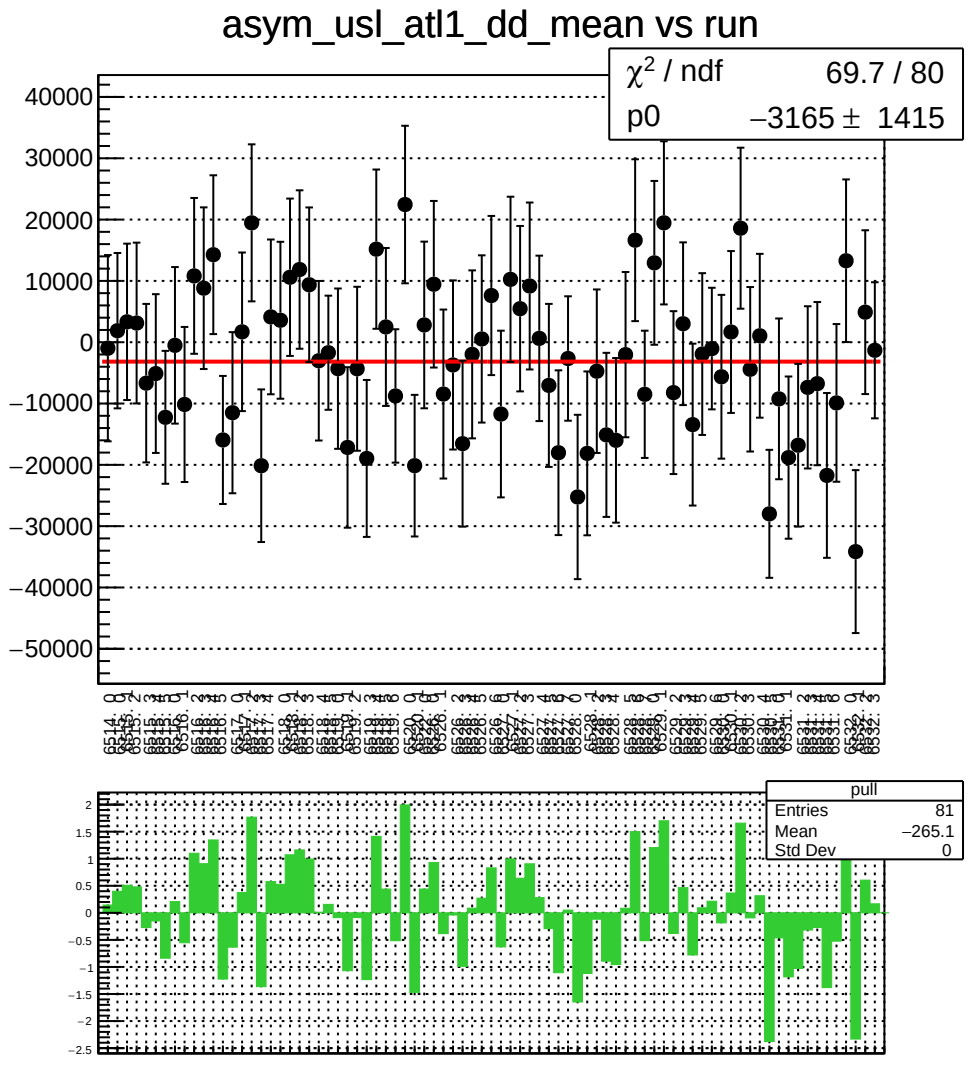

pull1D
Entries 81
Mean 0.00883
Std Dev 0.8974

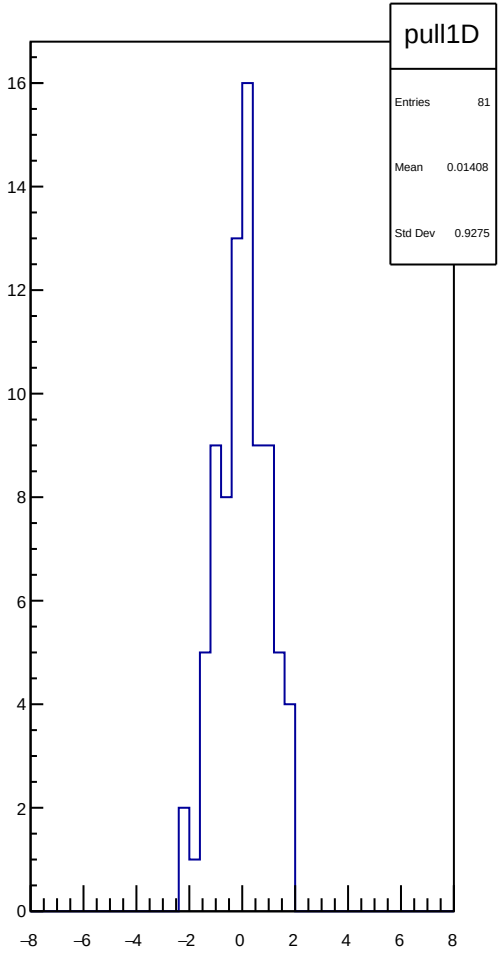

eigen_dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 73.62 / 80
p0 1119 ± 0.8955
1140
1130
1120
1110
1100
1090

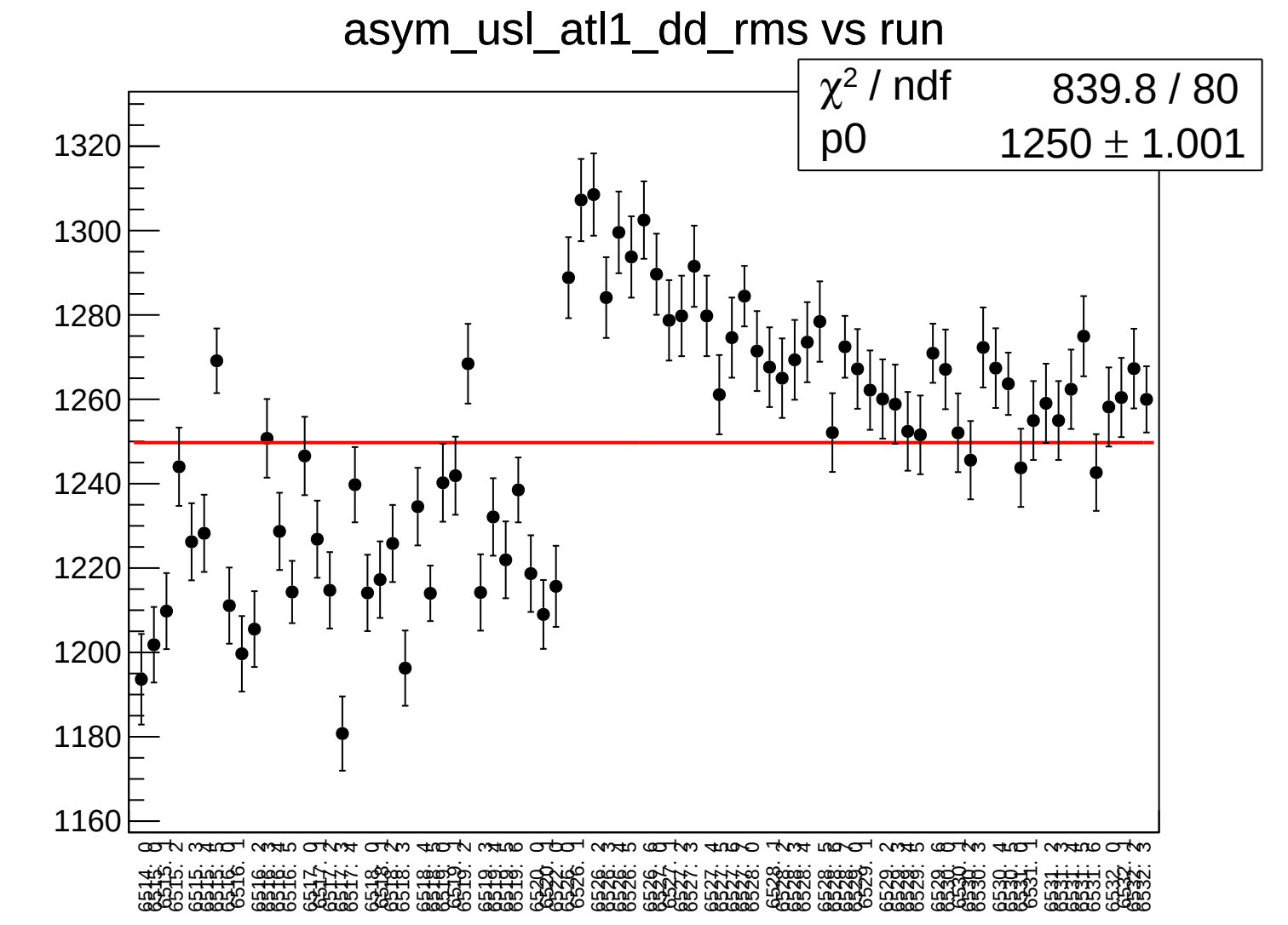

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 71.9 / 80
p0 456.5 ± 627.8
pull
Entries 81
Mean −415.7
Std Dev 0

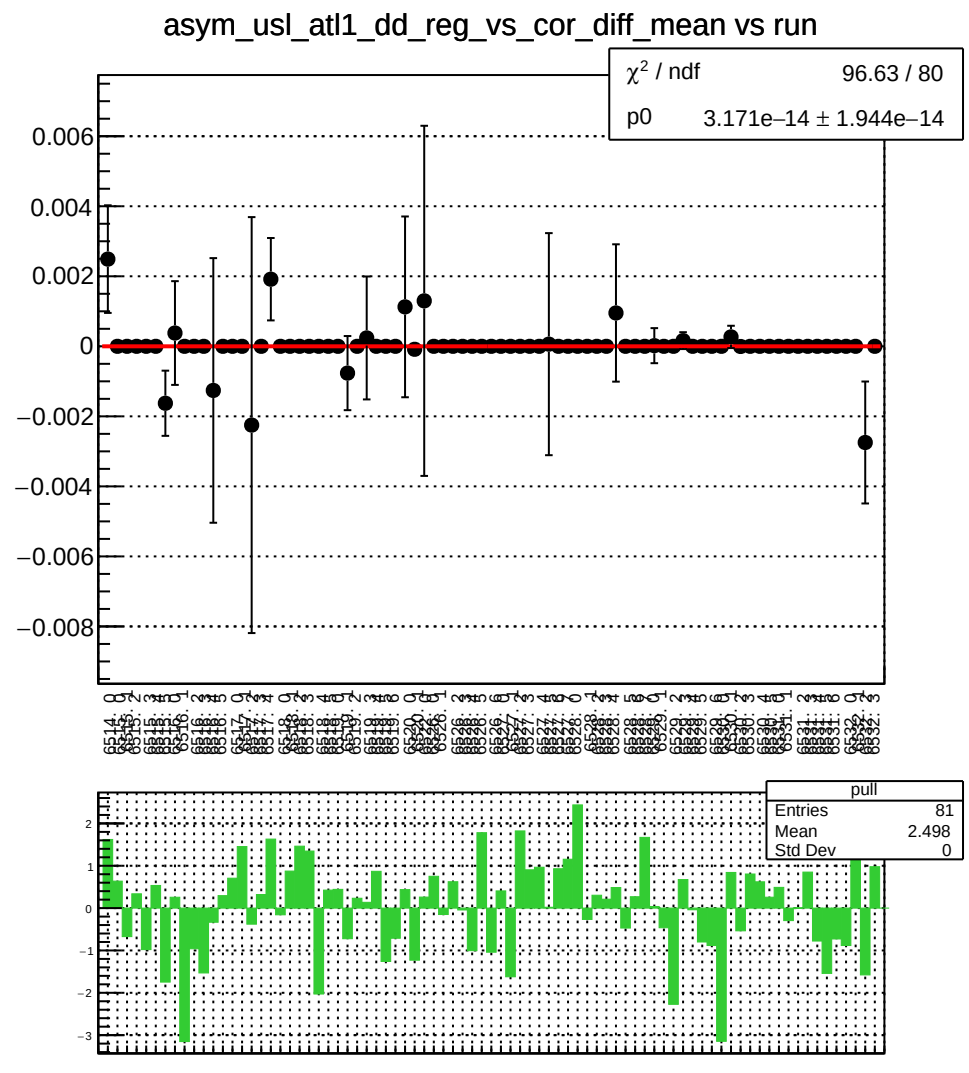

pull1D
Entries 81
Mean −0.009842
Std Dev 0.9421

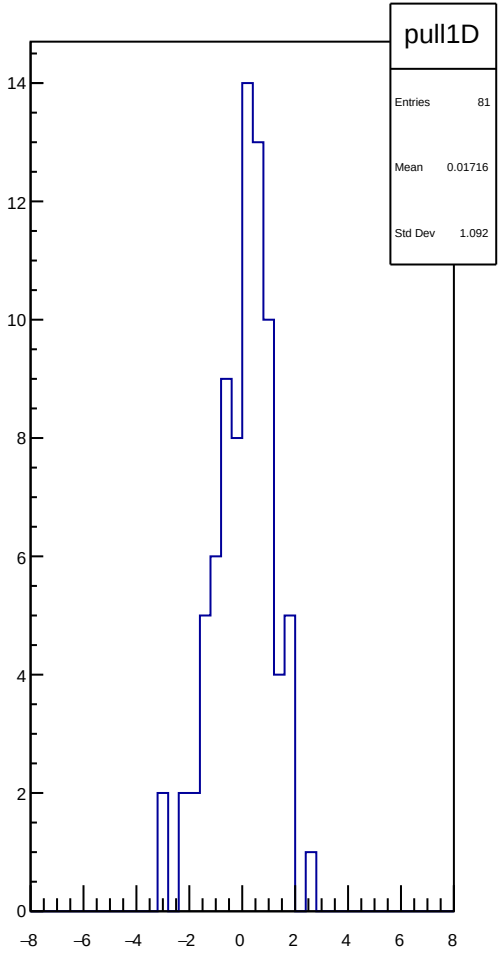

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.376e+04 / 80
p0 550.4 ± 0.4439
700
650
600
550
500
450
400

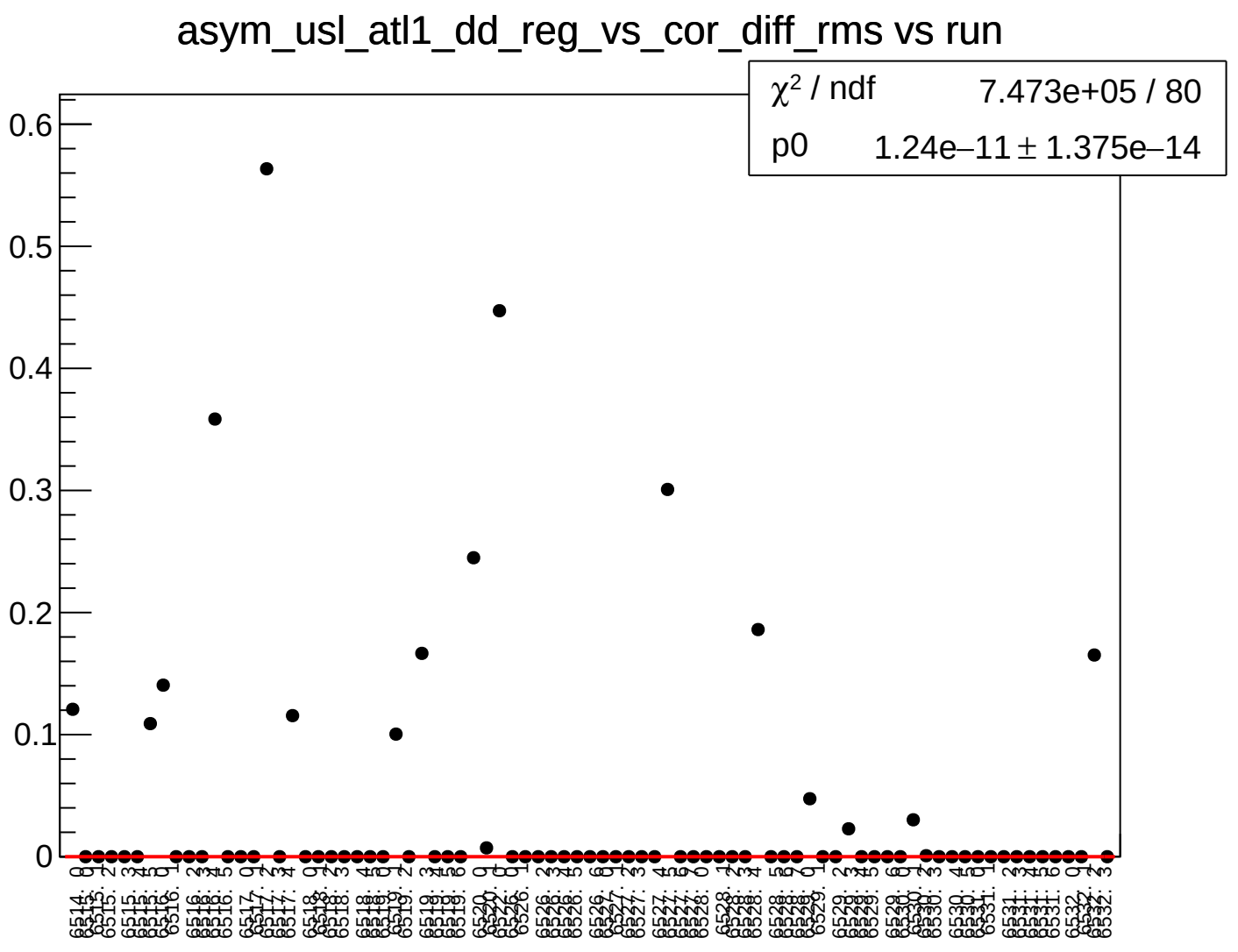

asym_usl_atl1_dd_mean vs run
χ² / ndf 69.7 / 80
p0 −3165 ± 1415
pull
Entries 81
Mean −265.1
Std Dev 0

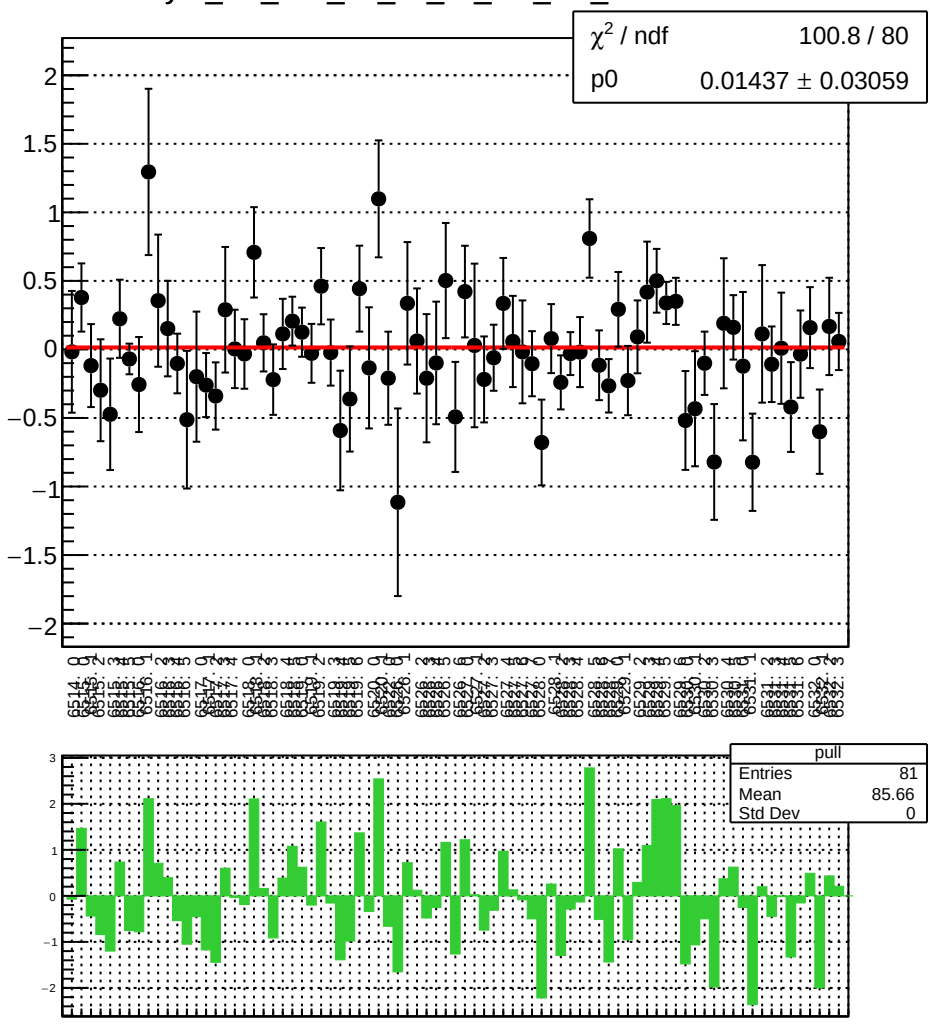

pull1D
Entries 81
Mean 0.01408
Std Dev 0.9275

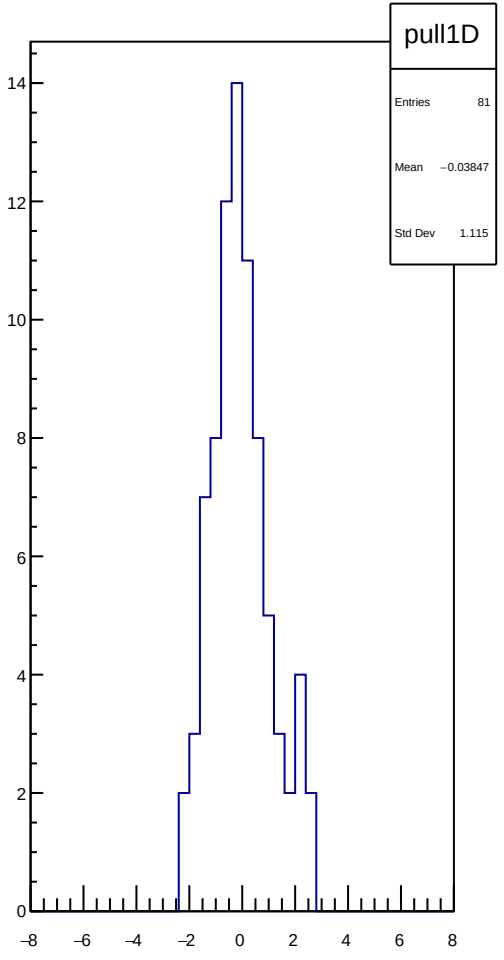

asym_usl_atl1_dd_rms vs run
χ² / ndf 839.8 / 80
p0 1250 ± 1.001
1320
1300
1280
1260
1240
1220
1200
1180
1160

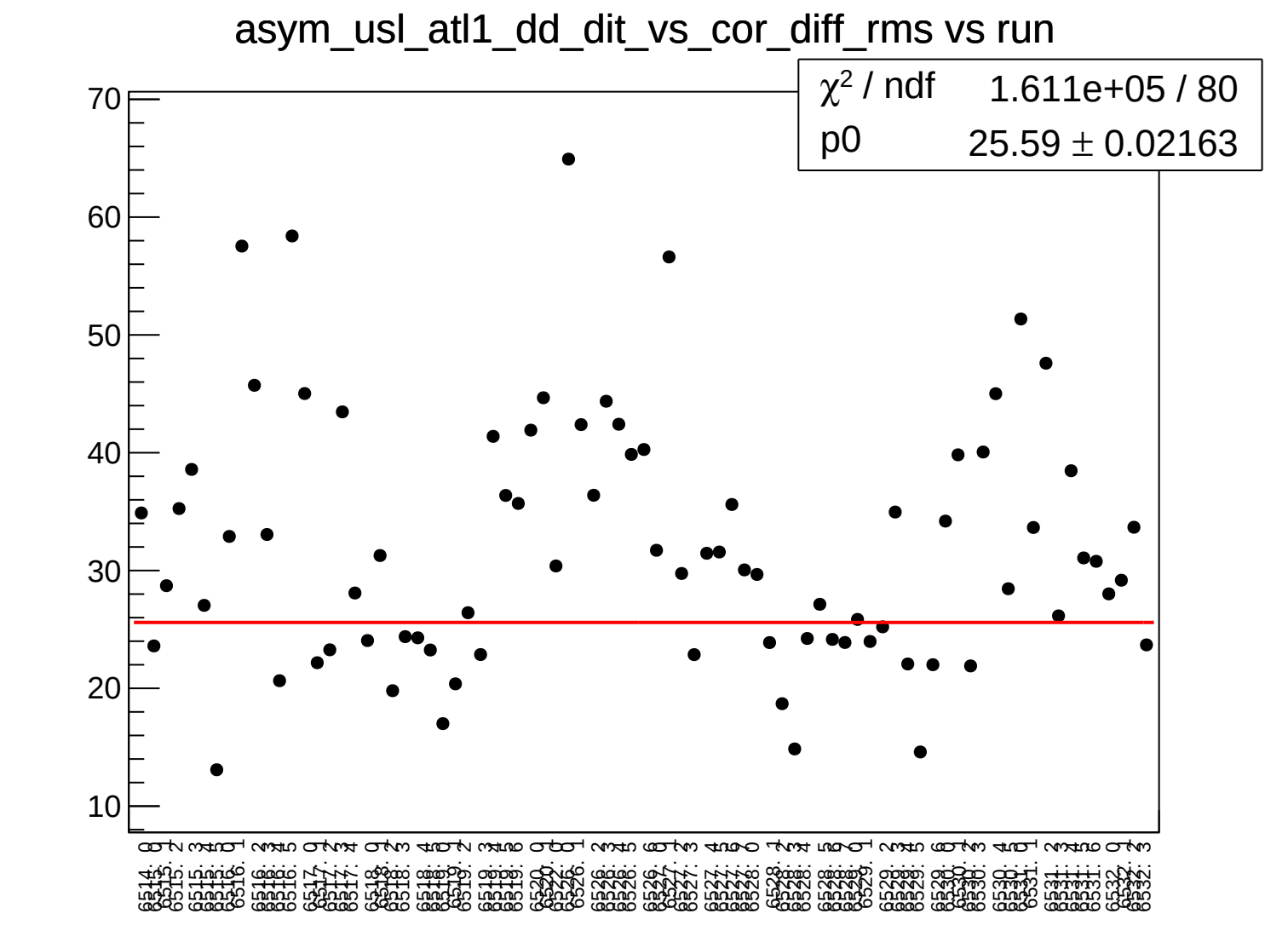

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 96.63 / 80
p0 3.171e−14 ± 1.944e−14
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
pull
Entries 81
Mean 2.498
Std Dev 0
2
1
0
−1
−2
−3

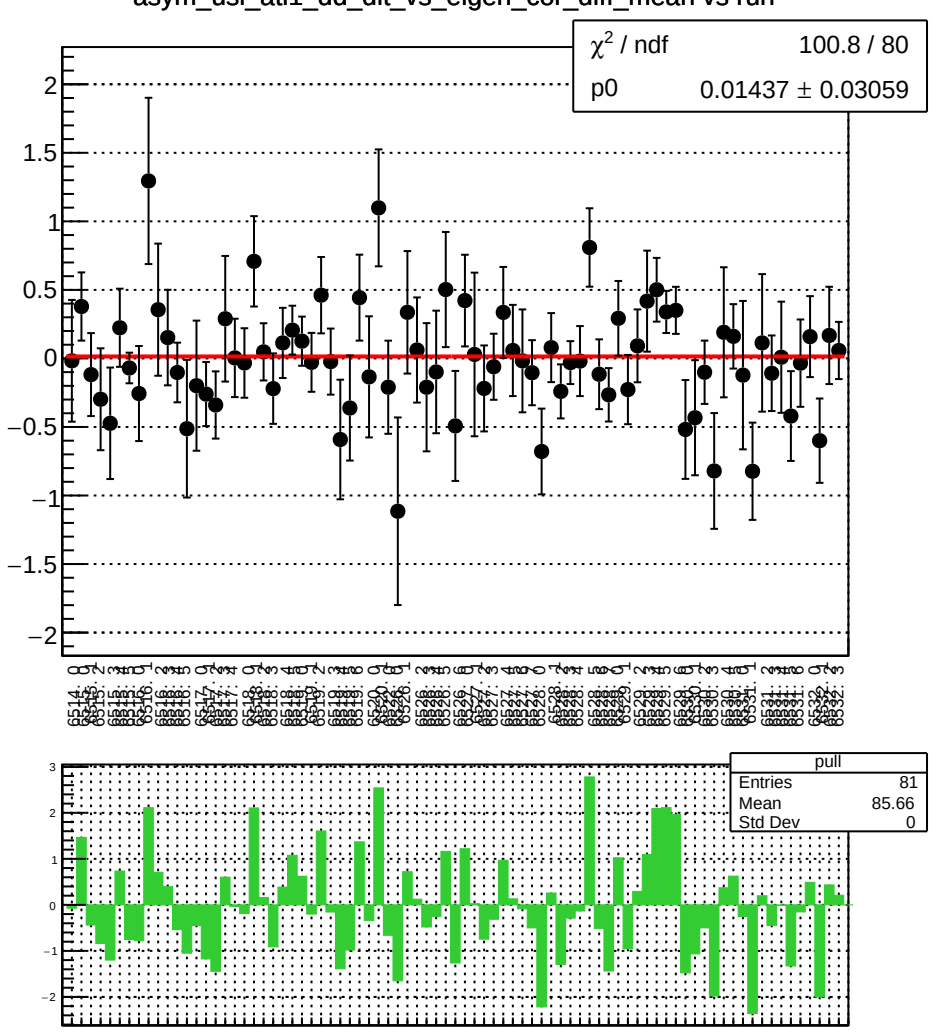

pull1D
Entries 81
Mean 0.01716
Std Dev 1.092
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

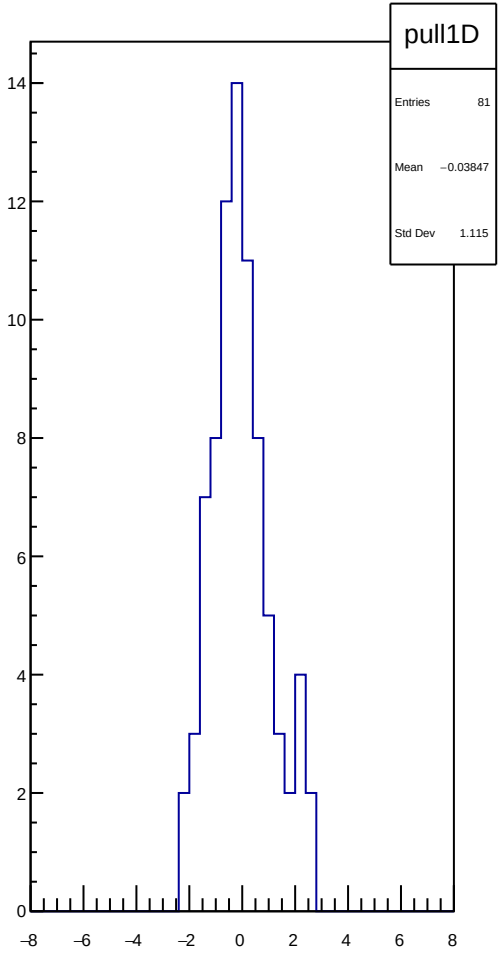

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.473e+05 / 80
p0 1.24e−11 ± 1.375e−14
0.6
0.5
0.4
0.3
0.2
0.1
0

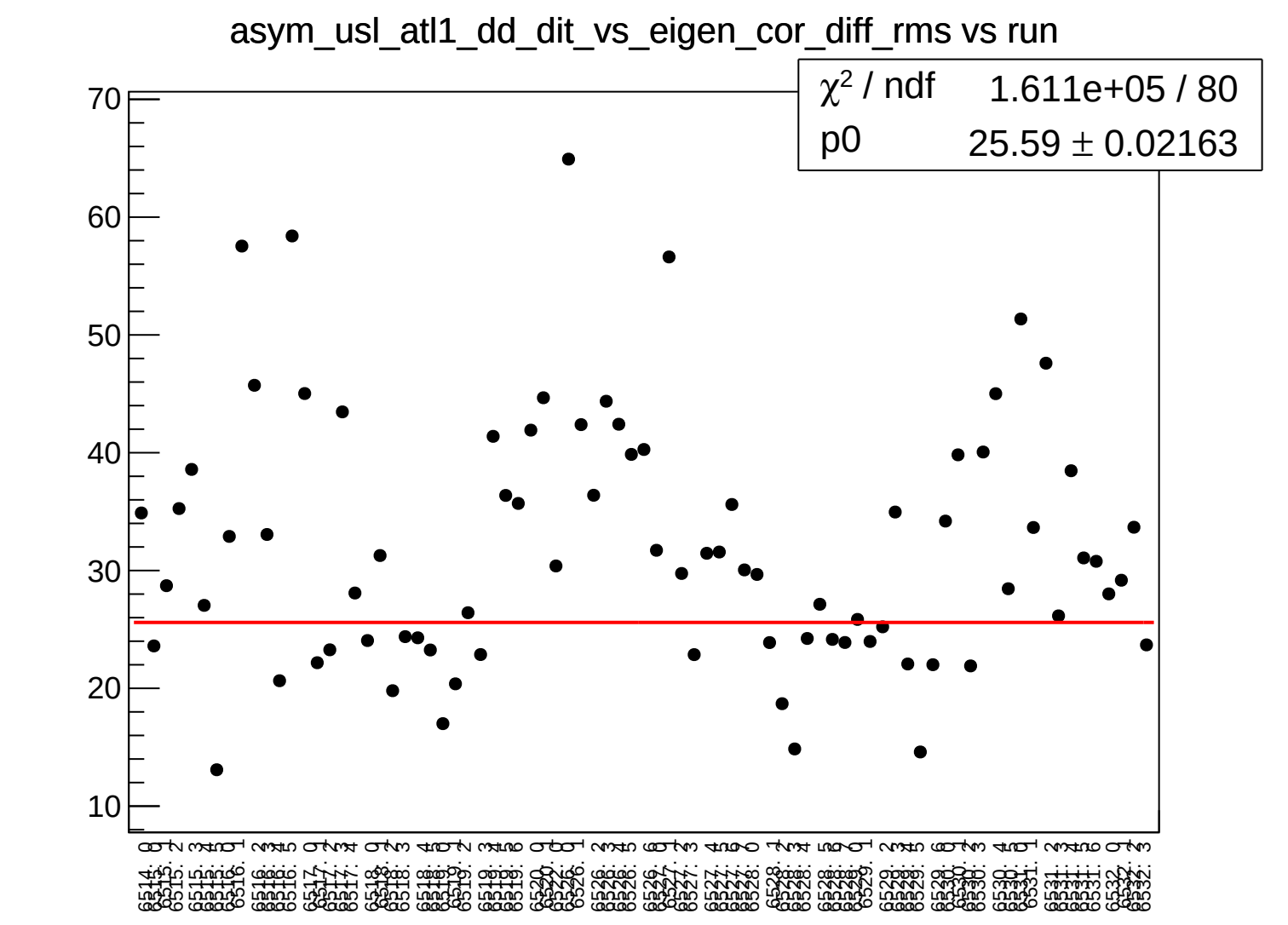

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 100.8 / 80
p0 0.01437 ± 0.03059
pull
Entries 81
Mean 85.66
Std Dev 0

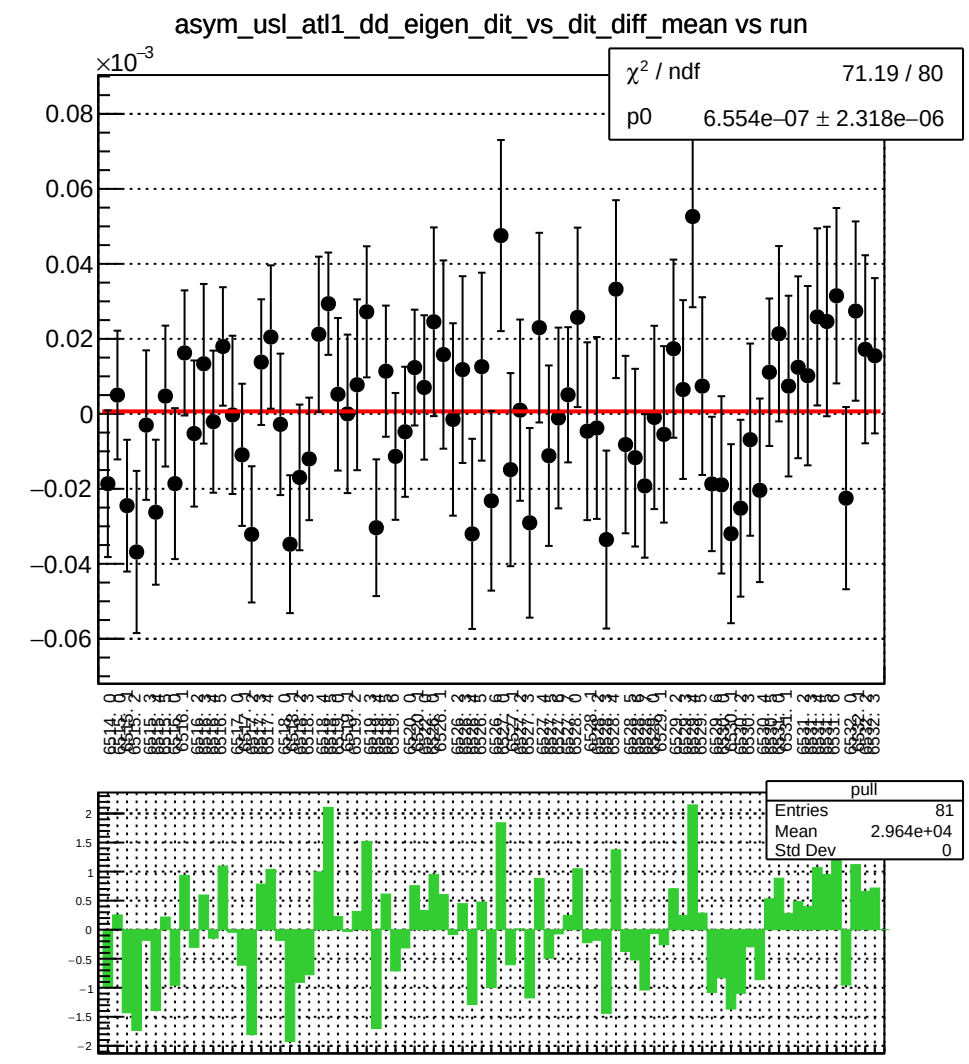

pull1D
Entries 81
Mean −0.03847
Std Dev 1.115

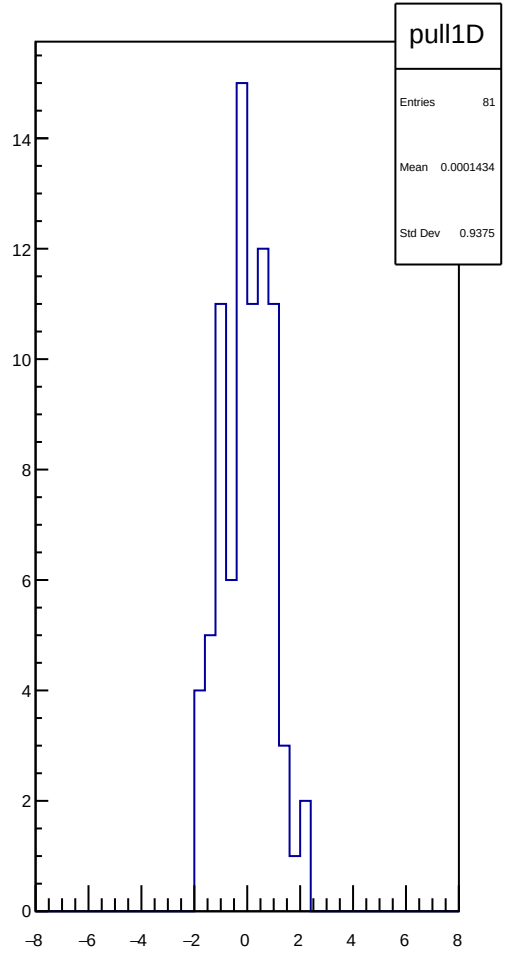

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.611e+05 / 80
p0 25.59 ± 0.02163
70
60
50
40
30
20
10

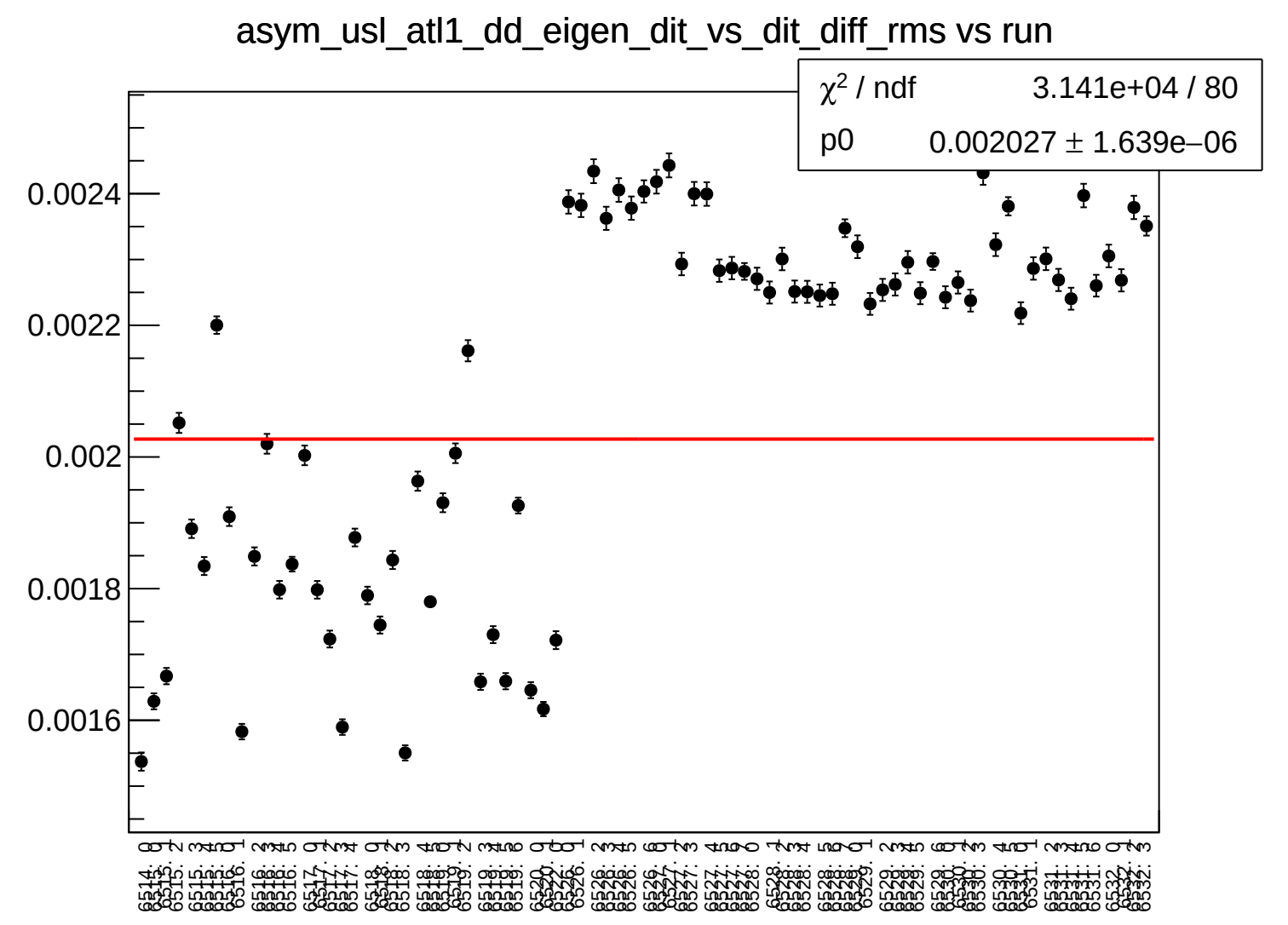

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.8 / 80
p0 0.01437 ± 0.03059
pull
Entries 81
Mean 85.66
Std Dev 0

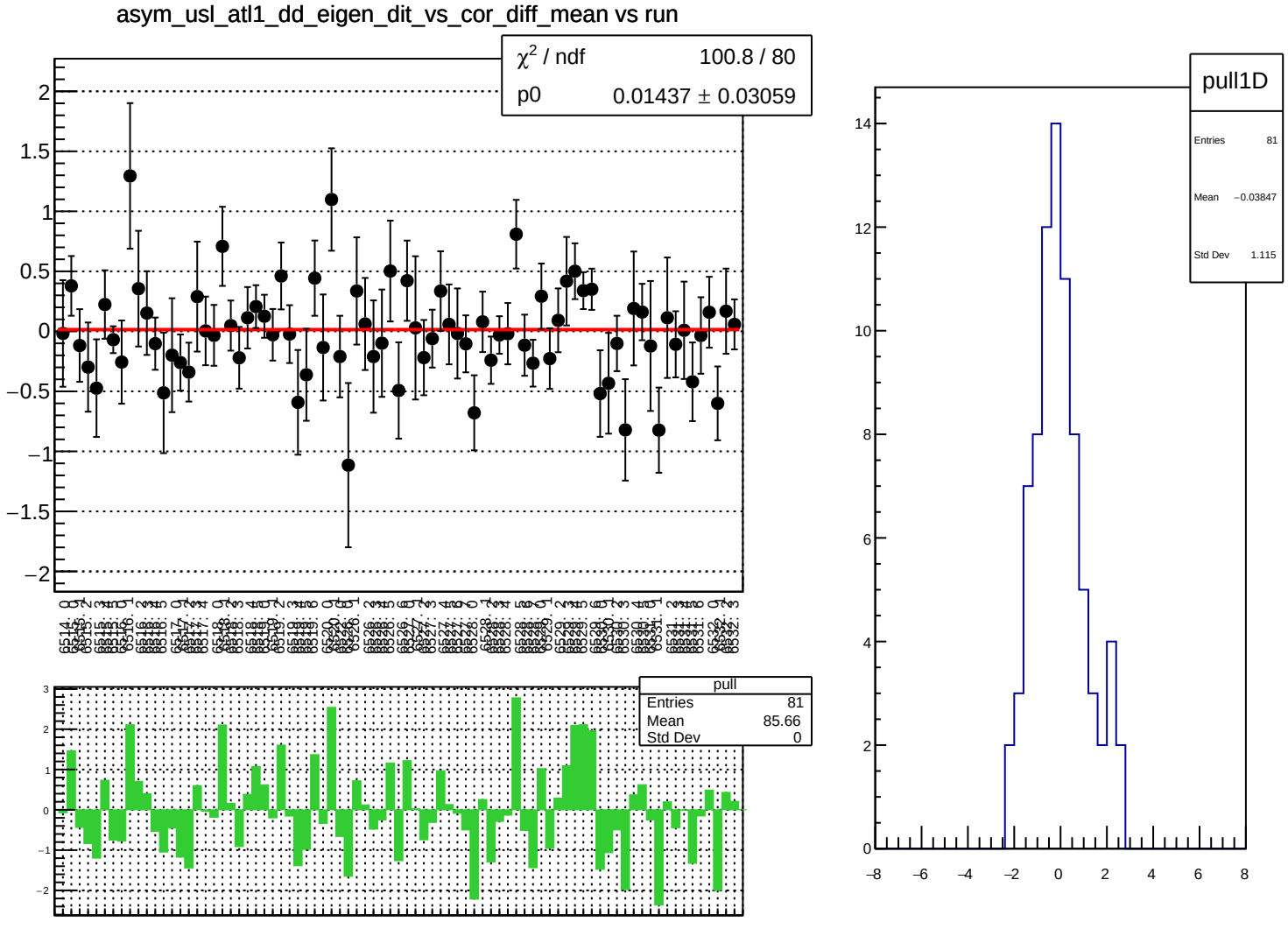

pull1D
Entries 81
Mean −0.03847
Std Dev 1.115

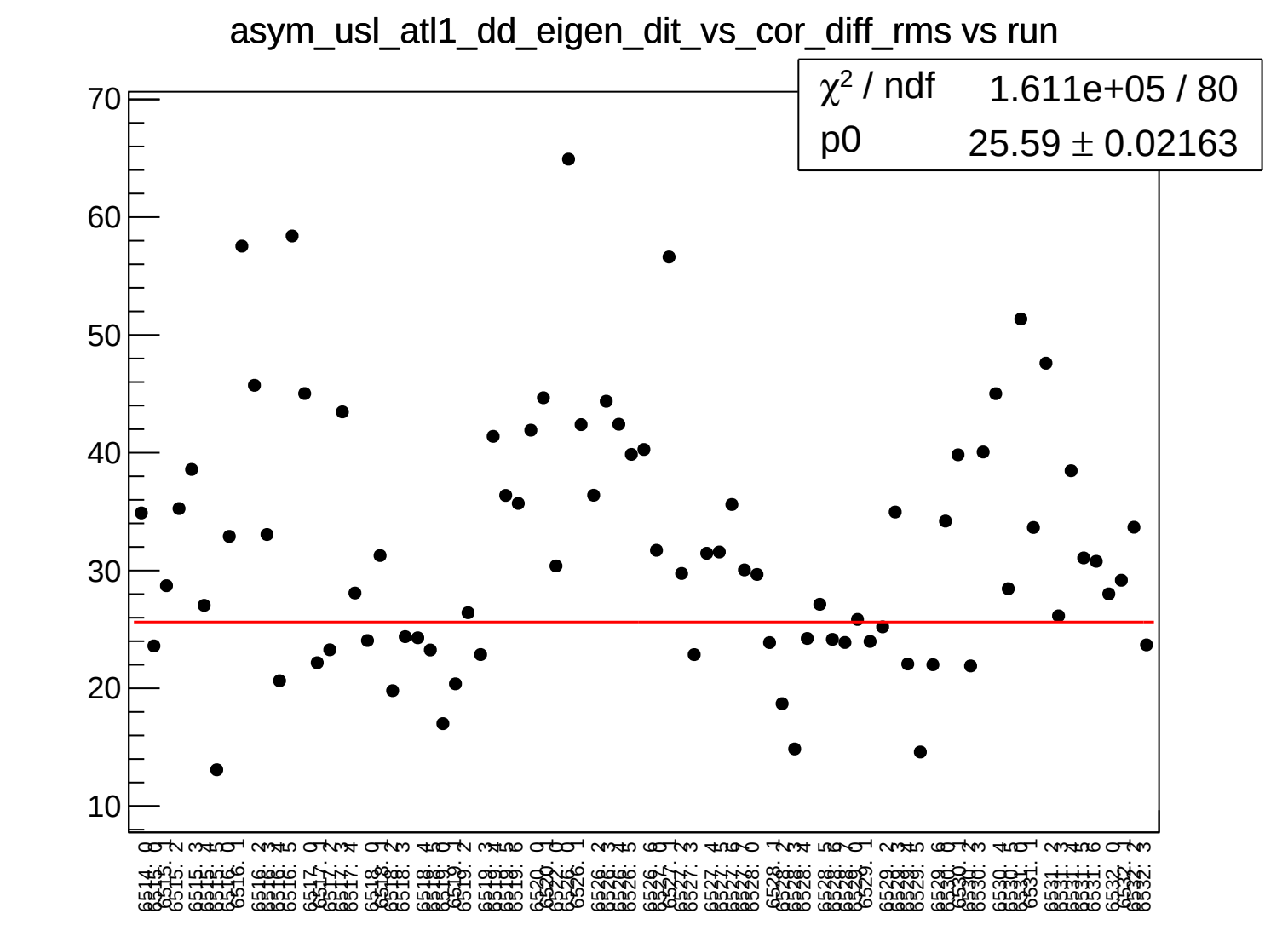

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.611e+05 / 80
p0 25.59 ± 0.02163
70
60
50
40
30
20
10

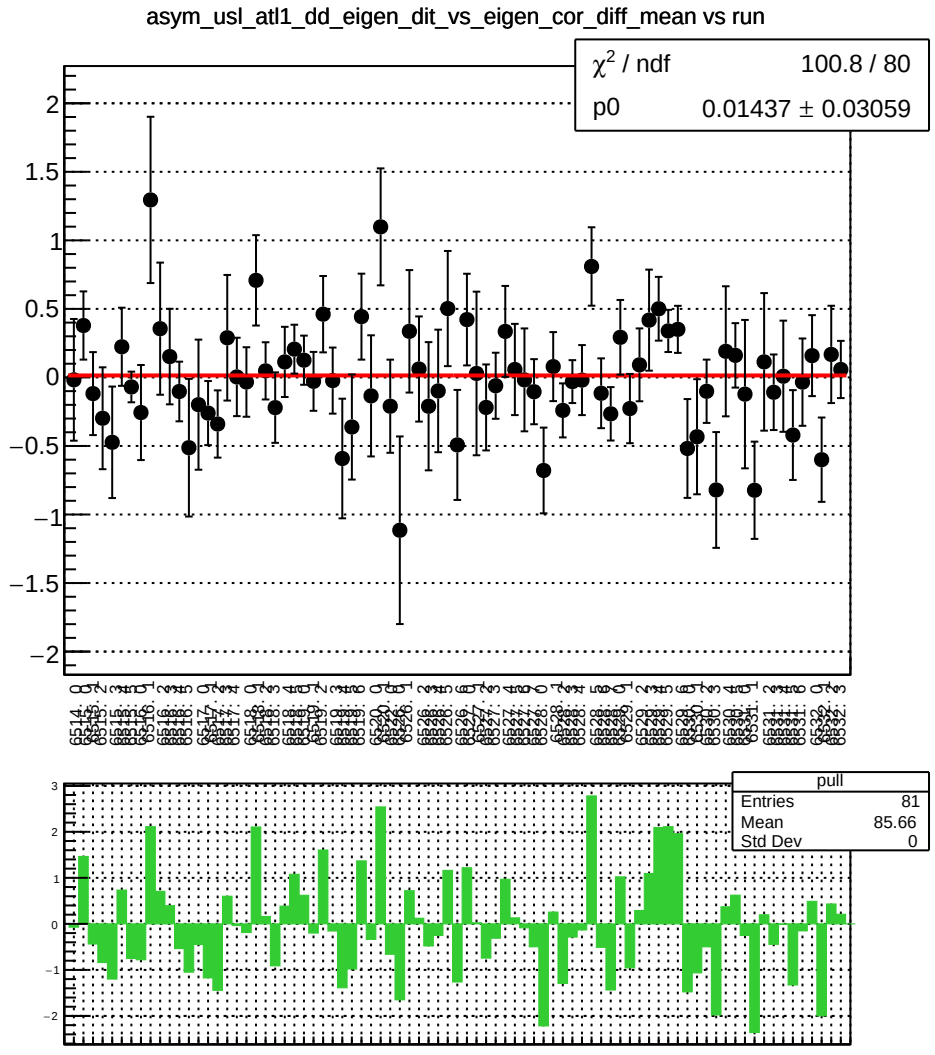

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 71.19 / 80
p0 6.554e−07 ± 2.318e−06
pull
Entries 81
Mean 2.964e+04
Std Dev 0

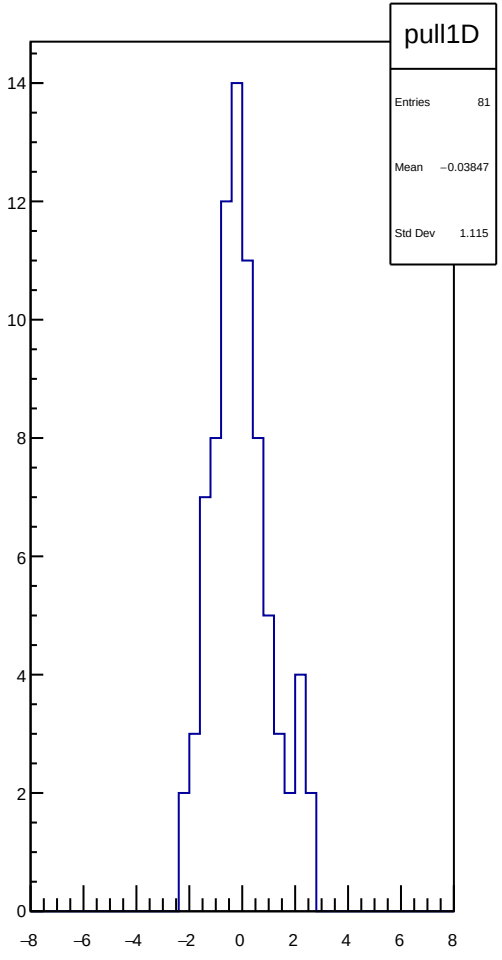

pull1D
Entries 81
Mean 0.0001434
Std Dev 0.9375

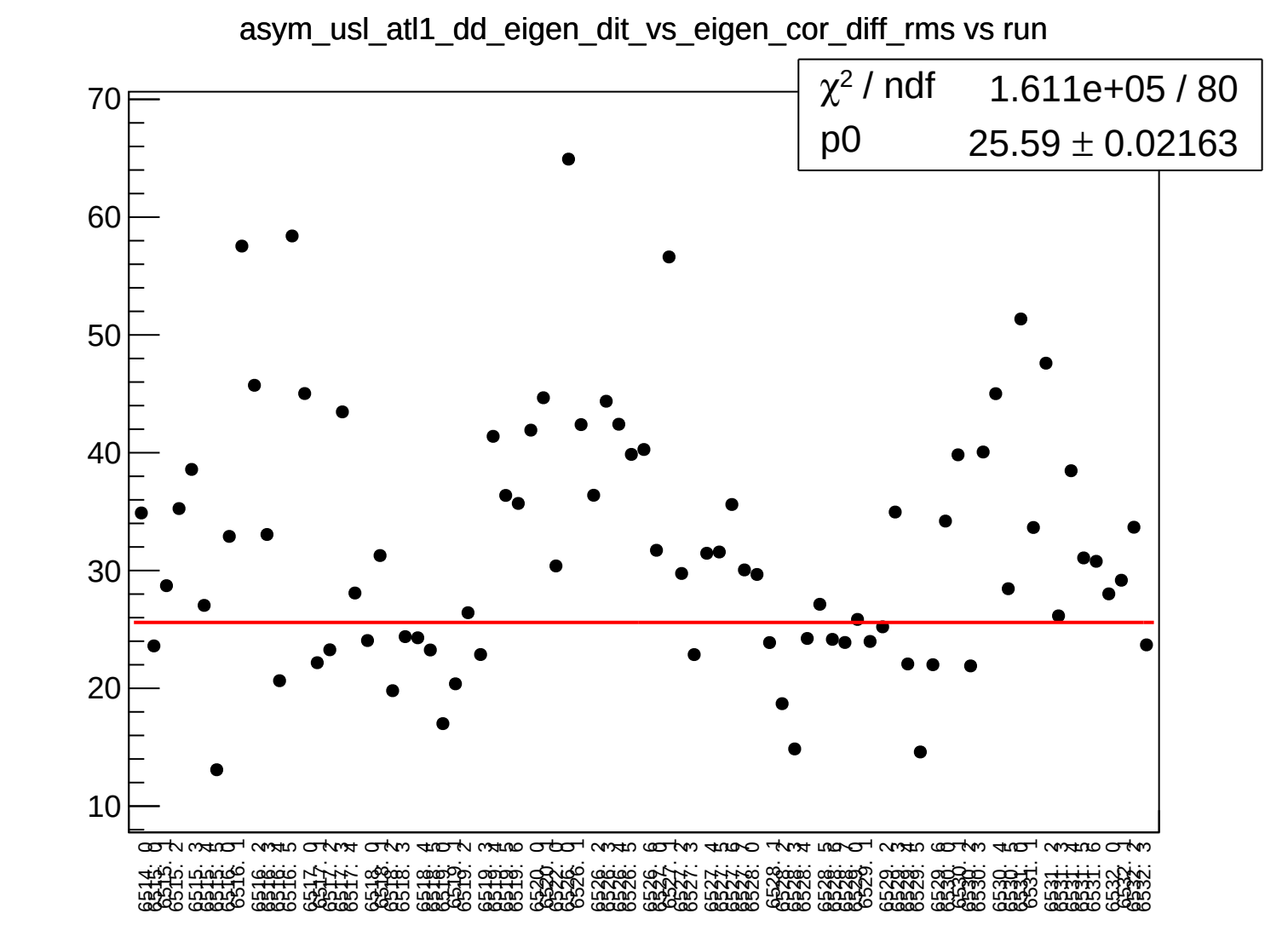

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.141e+04 / 80
p0 0.002027 ± 1.639e−06
0.0024
0.0022
0.002
0.0018
0.0016

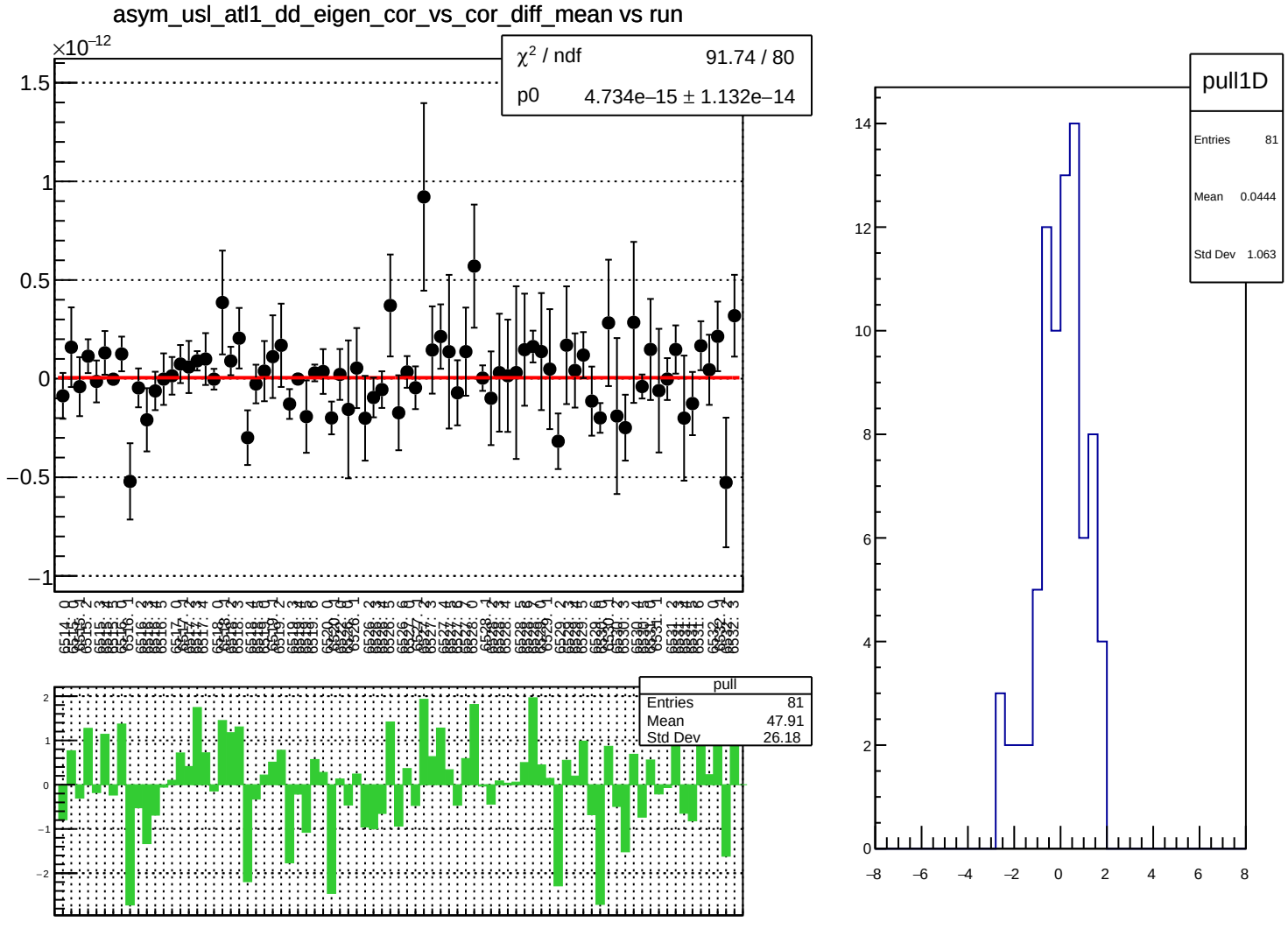

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.8 / 80
p0 0.01437 ± 0.03059
pull
Entries 81
Mean 85.66
Std Dev 0
pull1D
Entries 81
Mean −0.03847
Std Dev 1.115

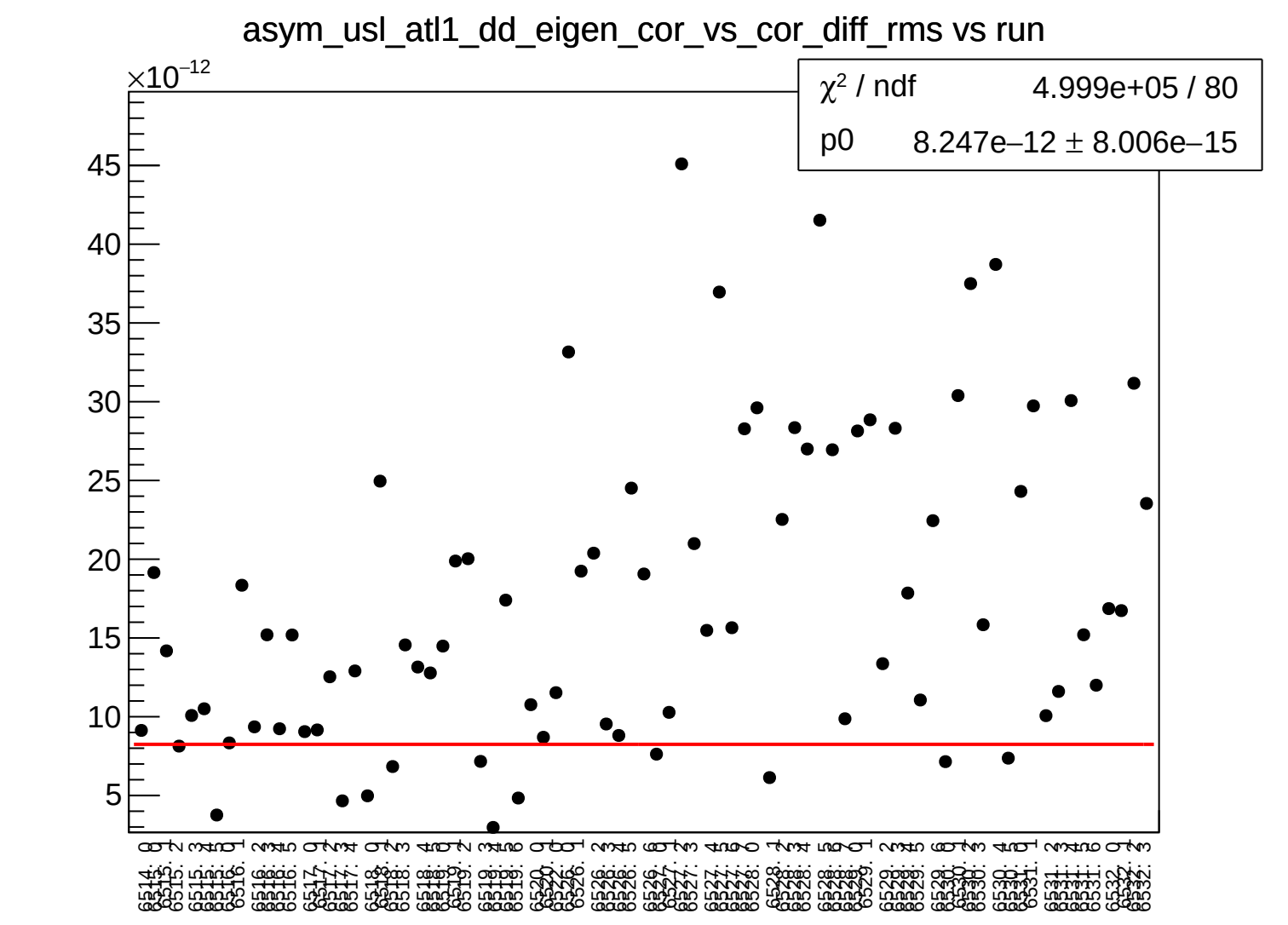

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.611e+05 / 80
p0 25.59 ± 0.02163
70
60
50
40
30
20
10

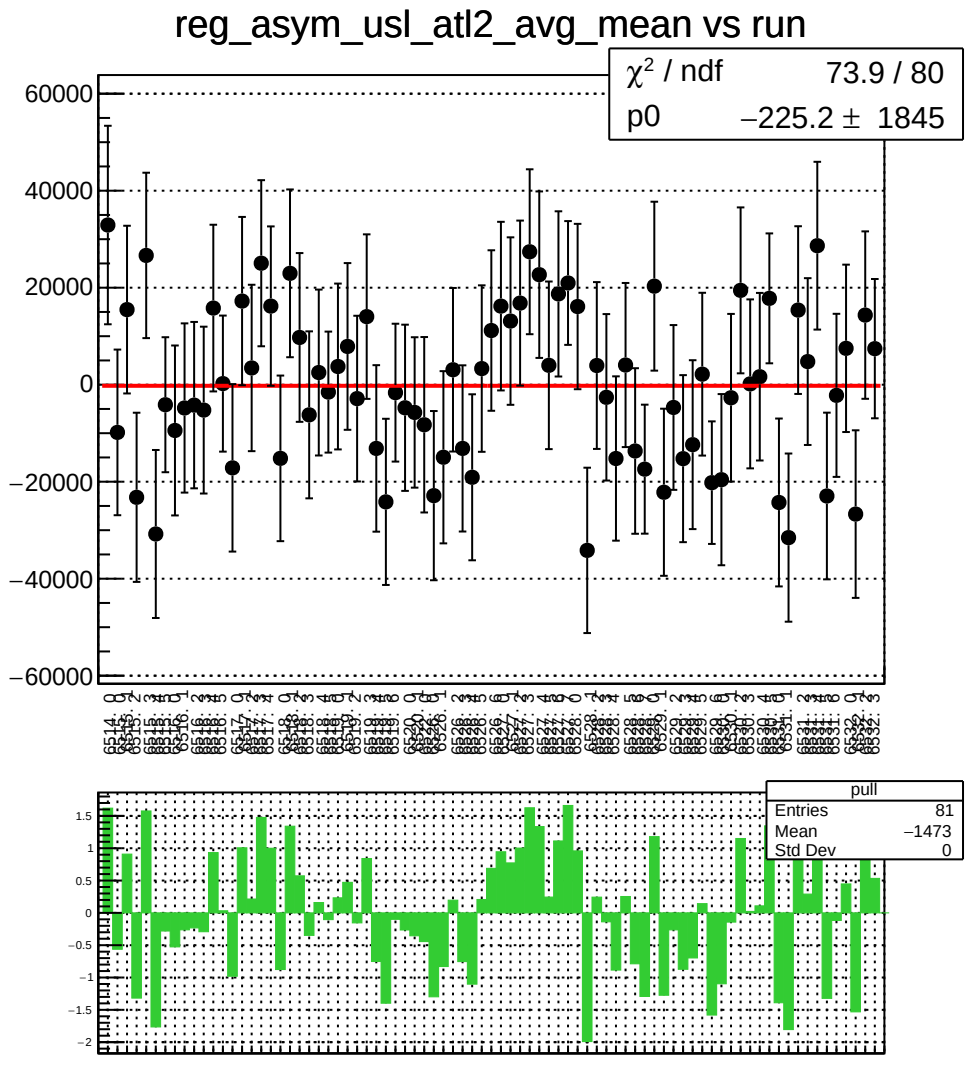

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.8 / 80
p0 0.01437 ± 0.03059
pull
Entries 81
Mean 85.66
Std Dev 0

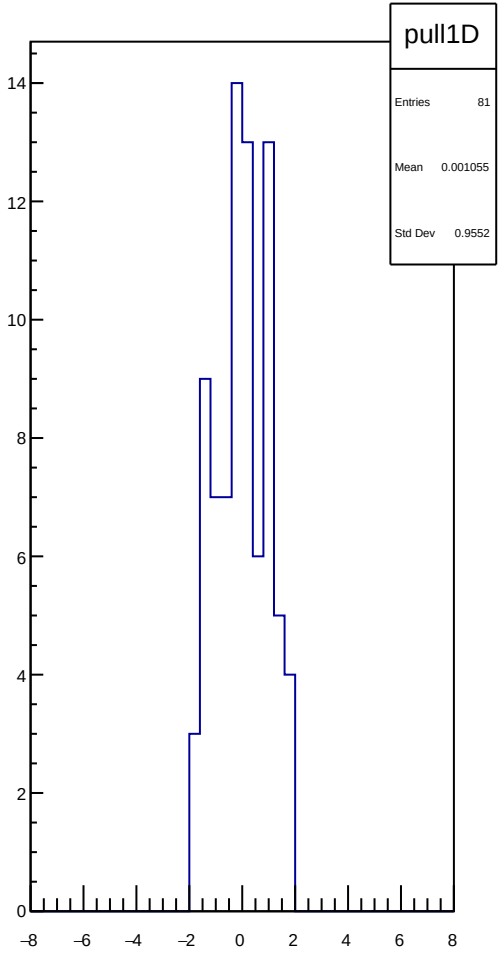

pull1D
Entries 81
Mean −0.03847
Std Dev 1.115

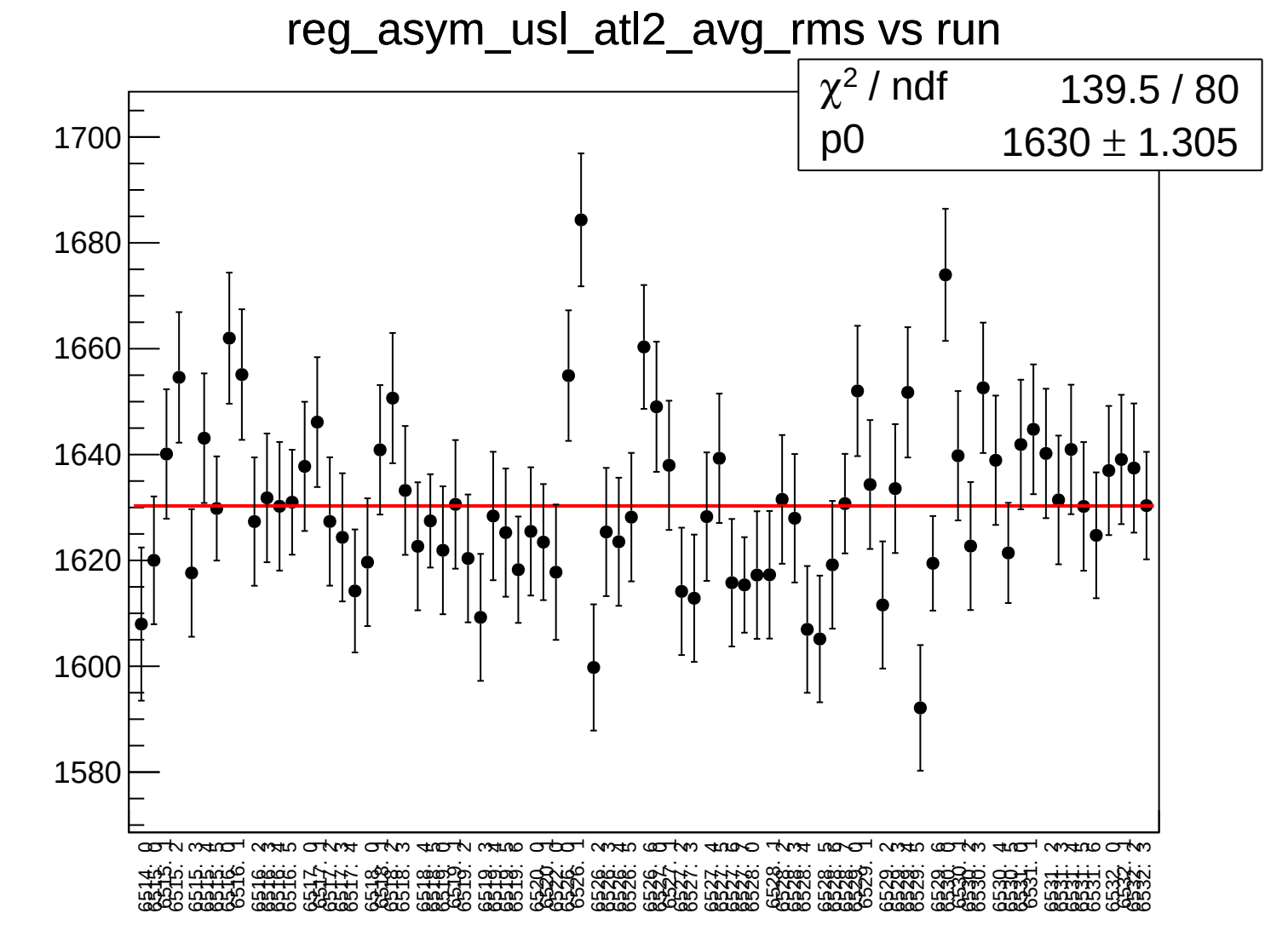

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.611e+05 / 80
p0 25.59 ± 0.02163
70
60
50
40
30
20
10

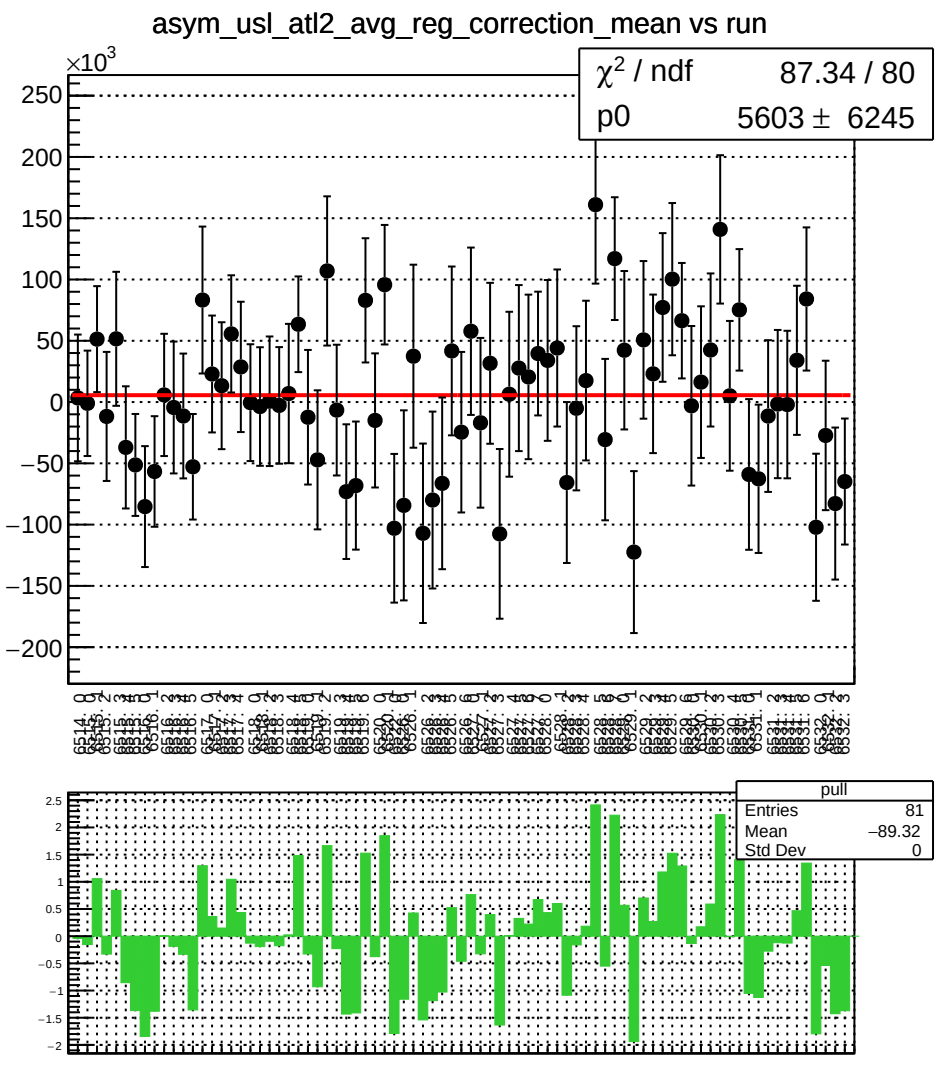

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.74 / 80
p0 4.734e−15 ± 1.132e−14
pull
Entries 81
Mean 47.91
Std Dev 26.18
pull1D
Entries 81
Mean 0.0444
Std Dev 1.063

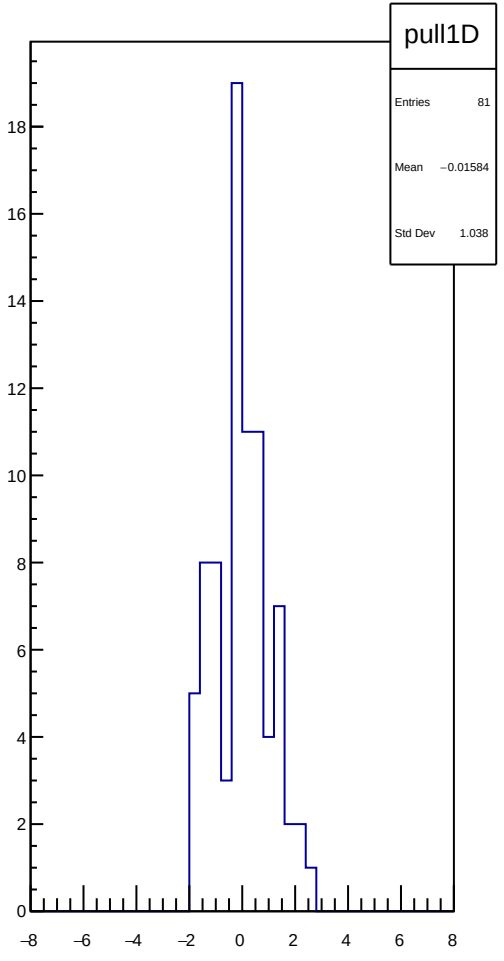

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.999e+05 / 80
p0 8.247e−12 ± 8.006e−15
45
40
35
30
25
20
15
10
5

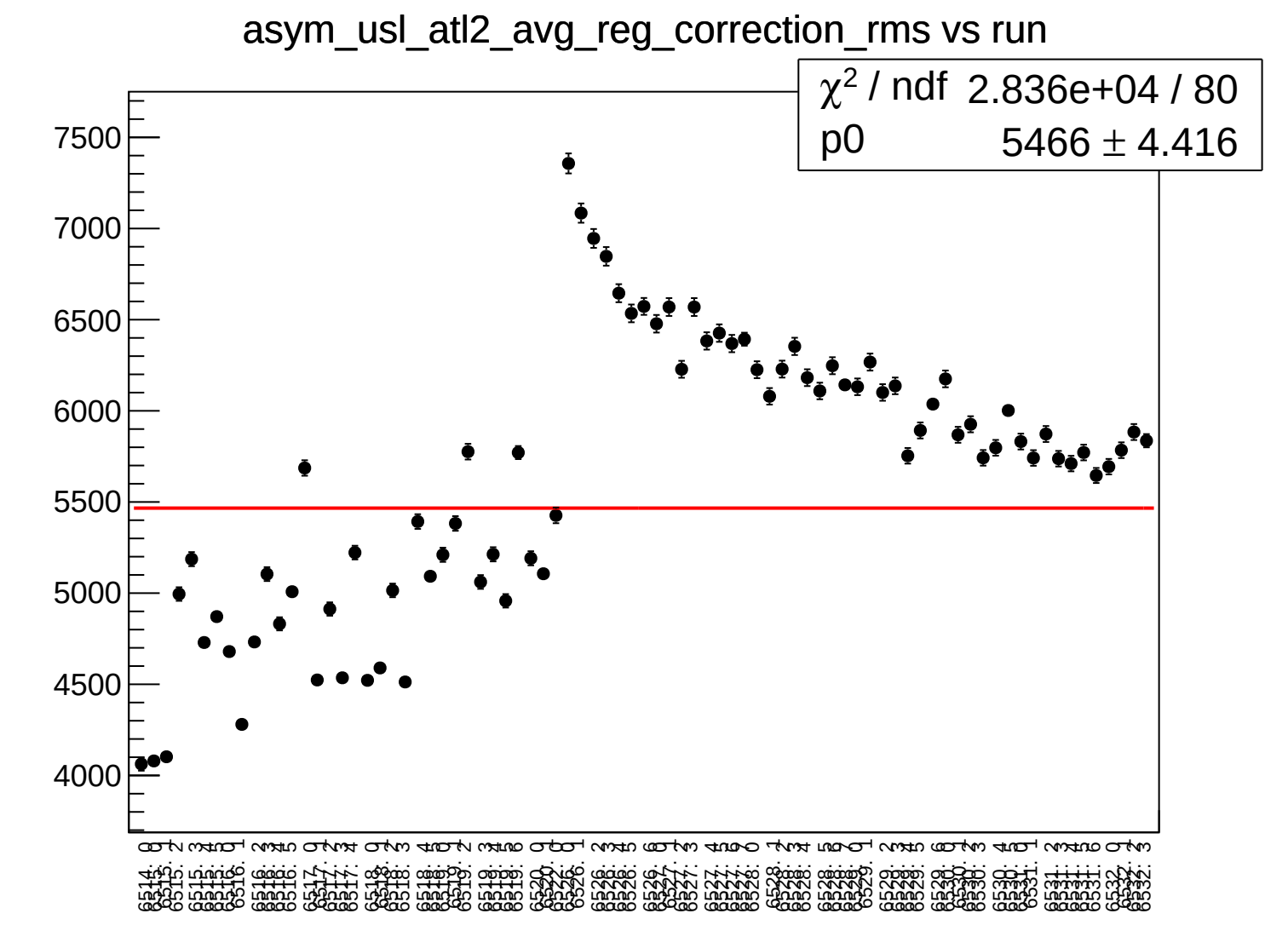

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 73.9 / 80
p0 −225.2 ± 1845
pull
Entries 81
Mean −1473
Std Dev 0

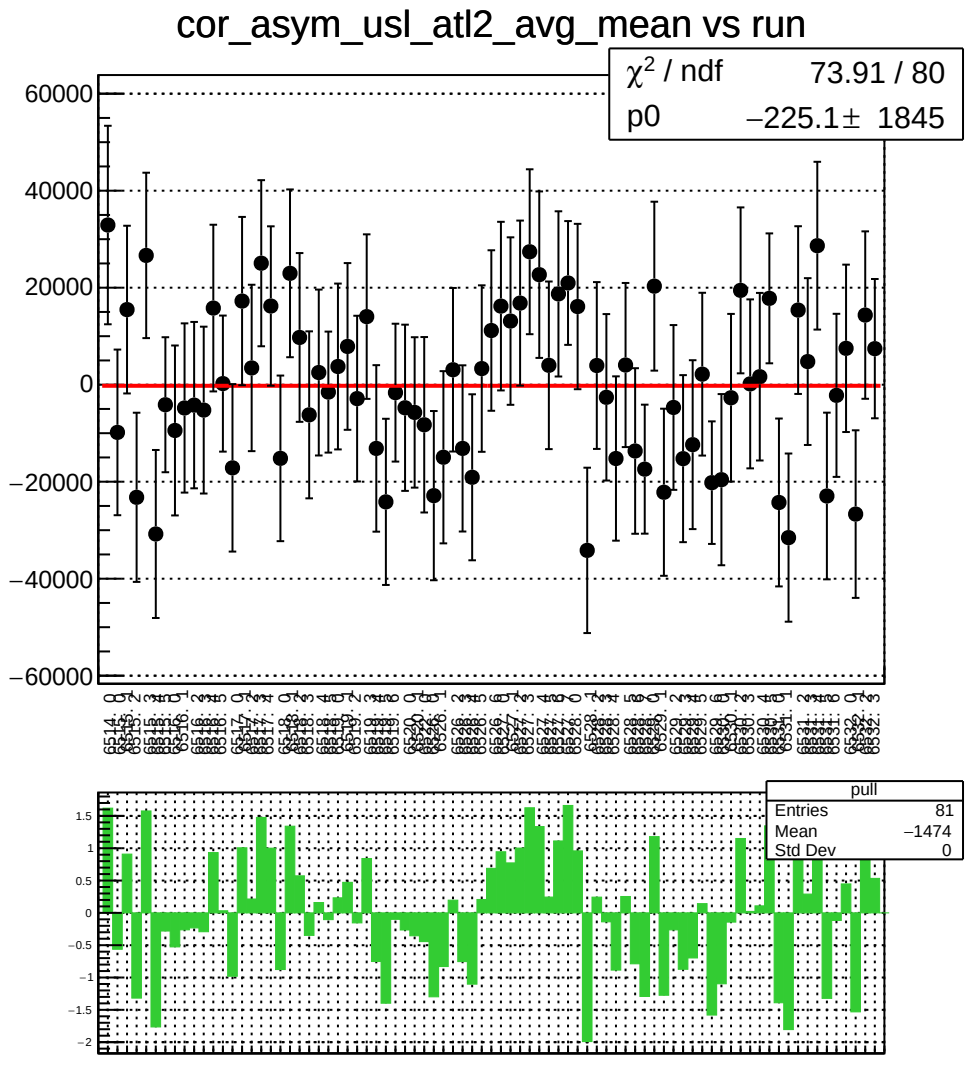

pull1D
Entries 81
Mean 0.001055
Std Dev 0.9552

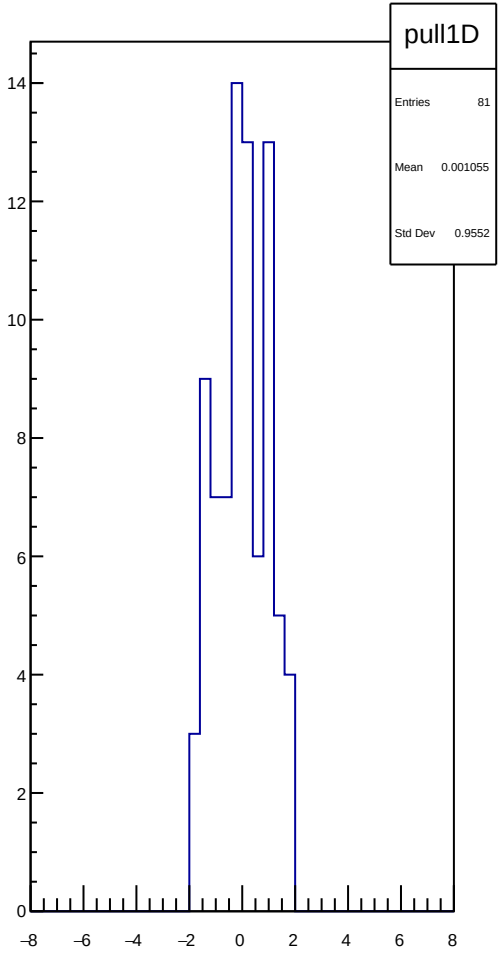

reg_asym_usl_atl2_avg_rms vs run
χ² / ndf 139.5 / 80
p0 1630 ± 1.305
1700
1680
1660
1640
1620
1600
1580

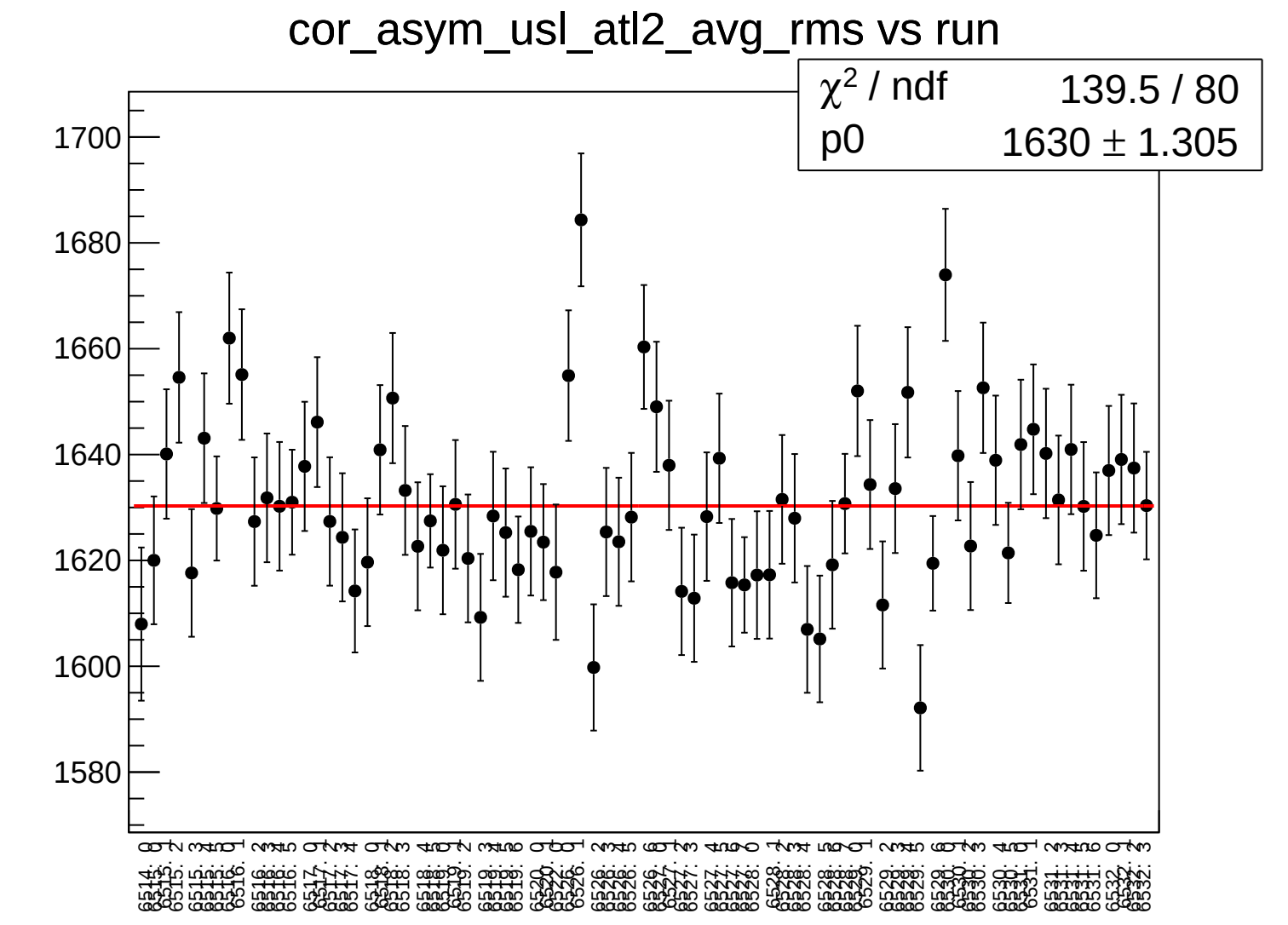

asym_usl_atl2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 87.34 / 80
p0 5603 ± 6245
pull
Entries 81
Mean −89.32
Std Dev 0

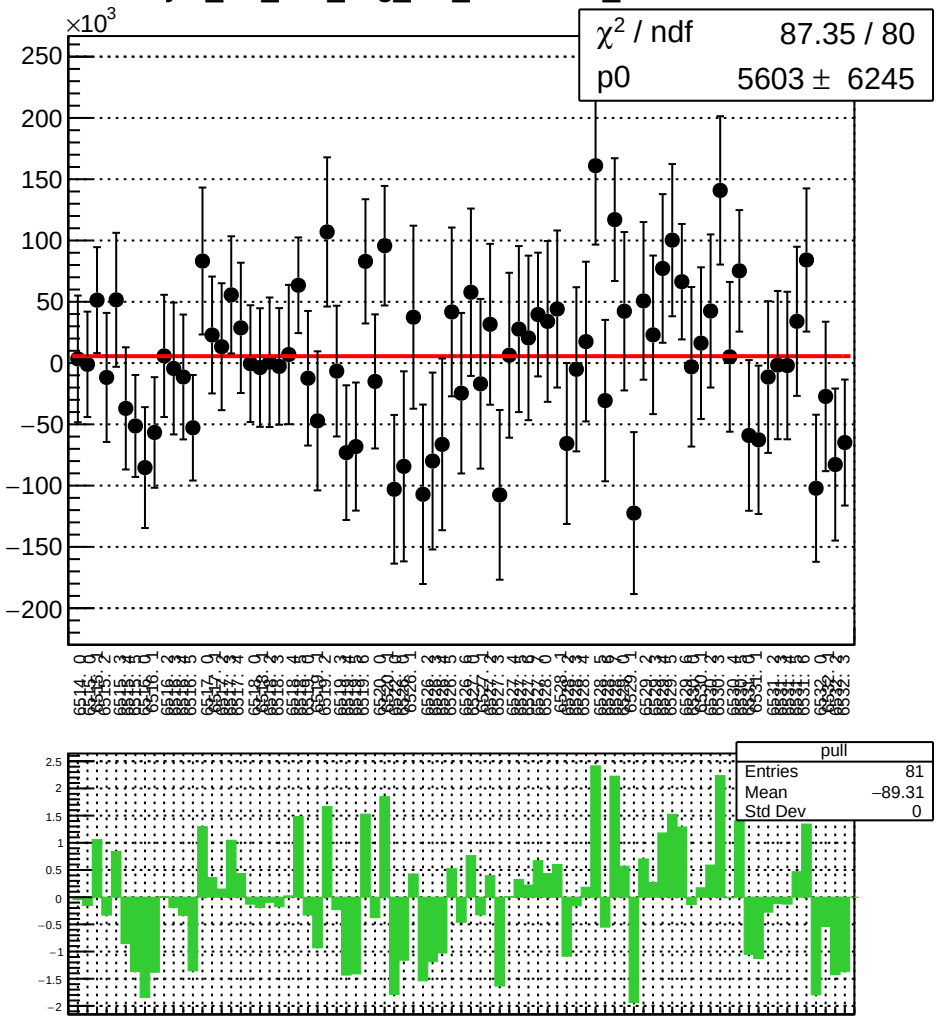

pull1D
Entries 81
Mean −0.01584
Std Dev 1.038

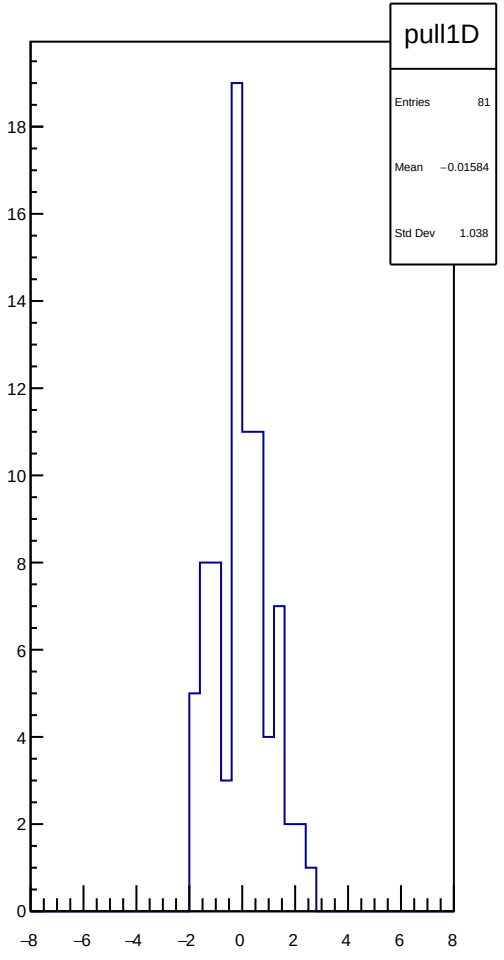

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 2.836e+04 / 80
p0 5466 ± 4.416
7500
7000
6500
6000
5500
5000
4500
4000

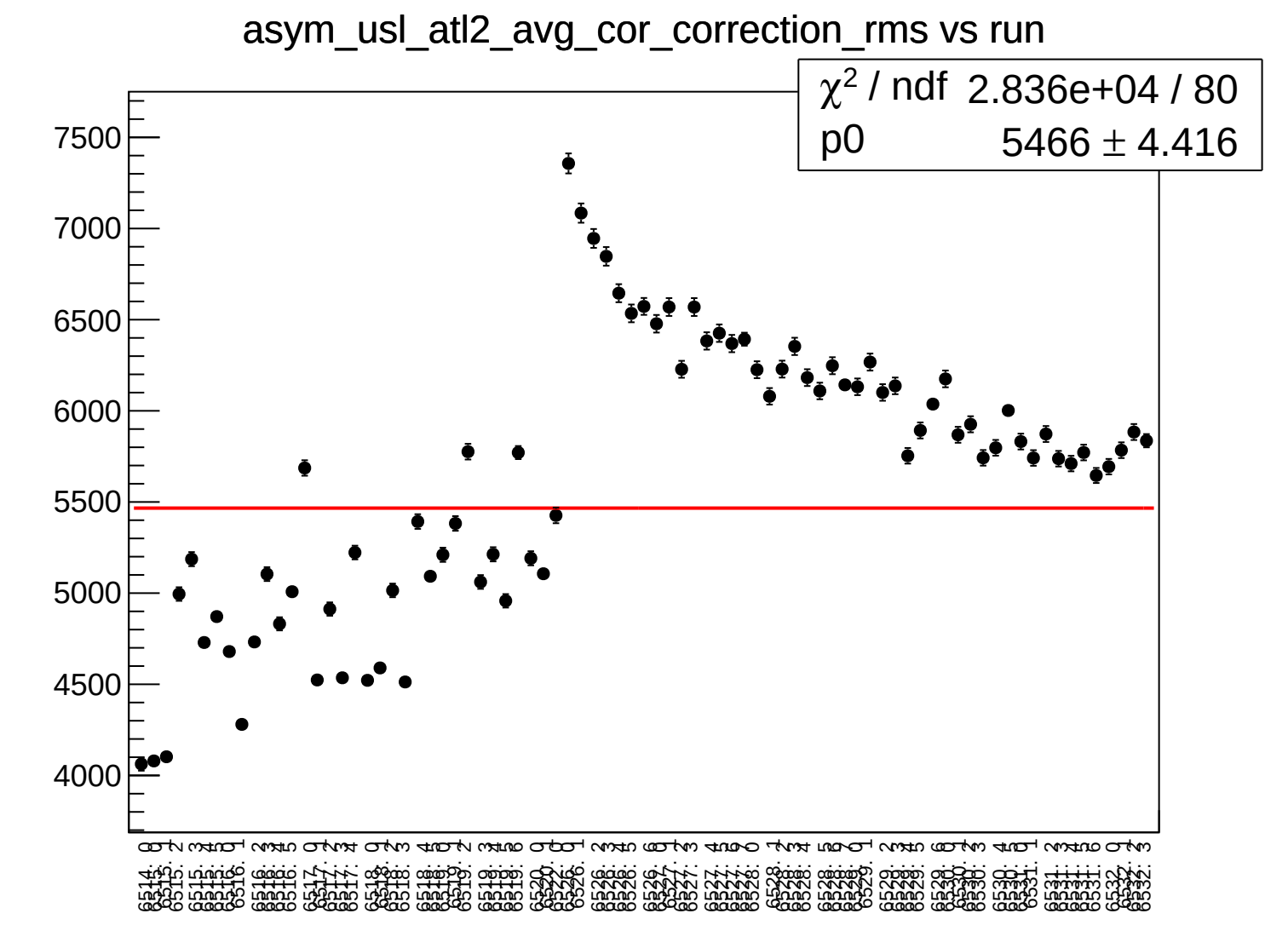

cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 73.91 / 80
p0 −225.1± 1845
pull
Entries 81
Mean −1474
Std Dev 0

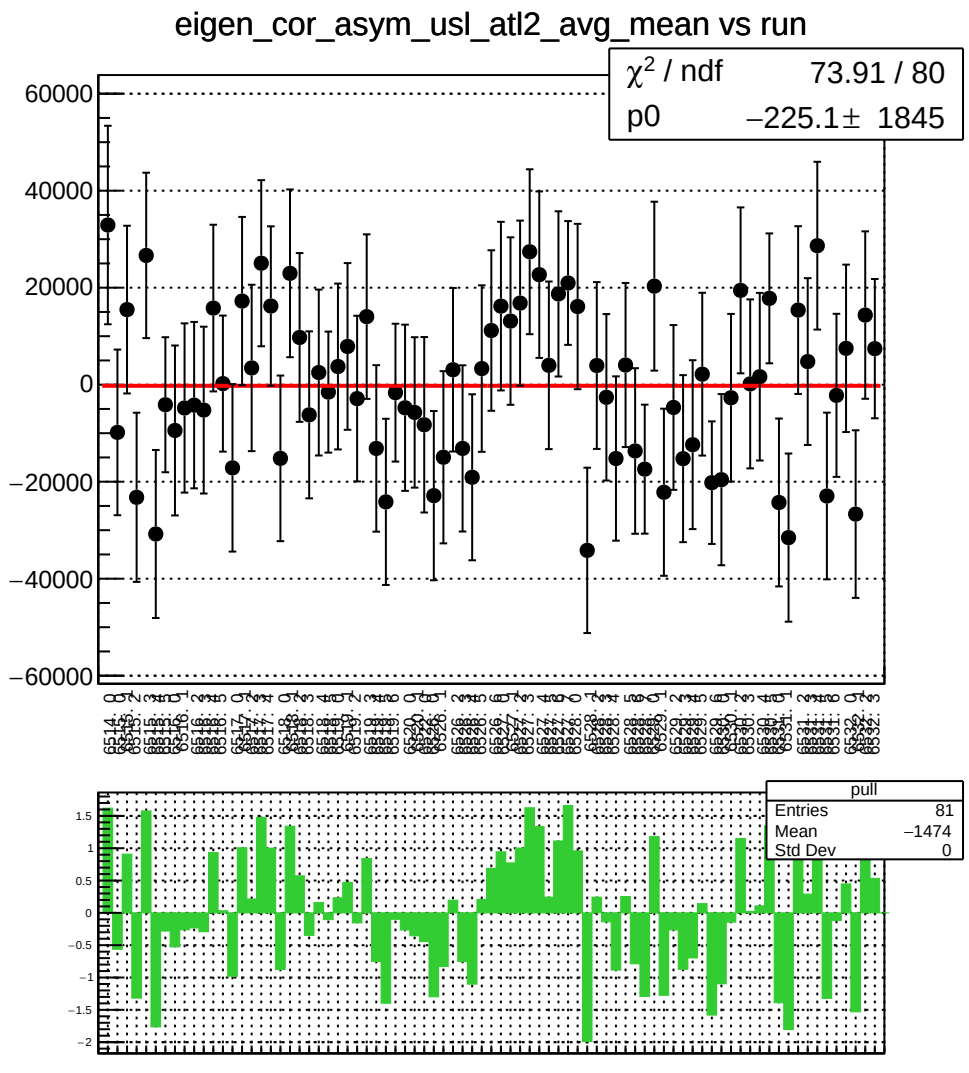

pull1D
Entries 81
Mean 0.001055
Std Dev 0.9552

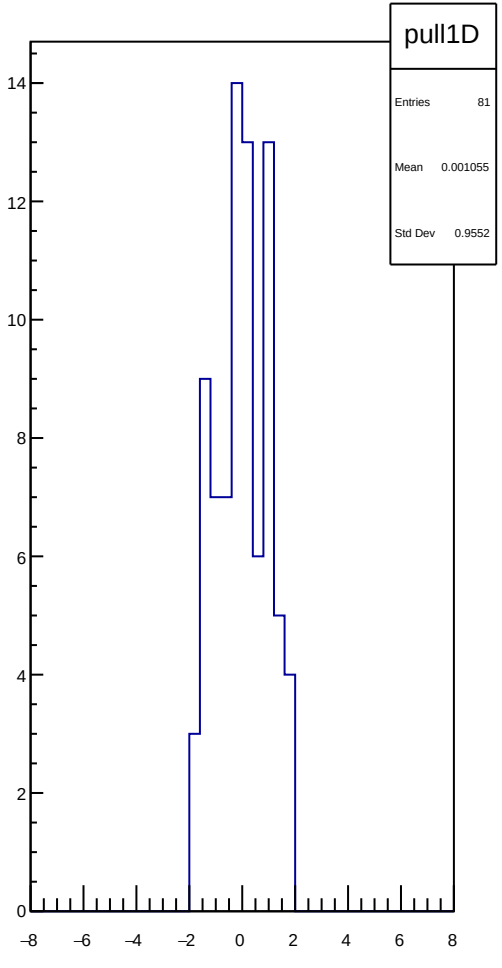

cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 139.5 / 80
p0 1630 ± 1.305
1700
1680
1660
1640
1620
1600
1580

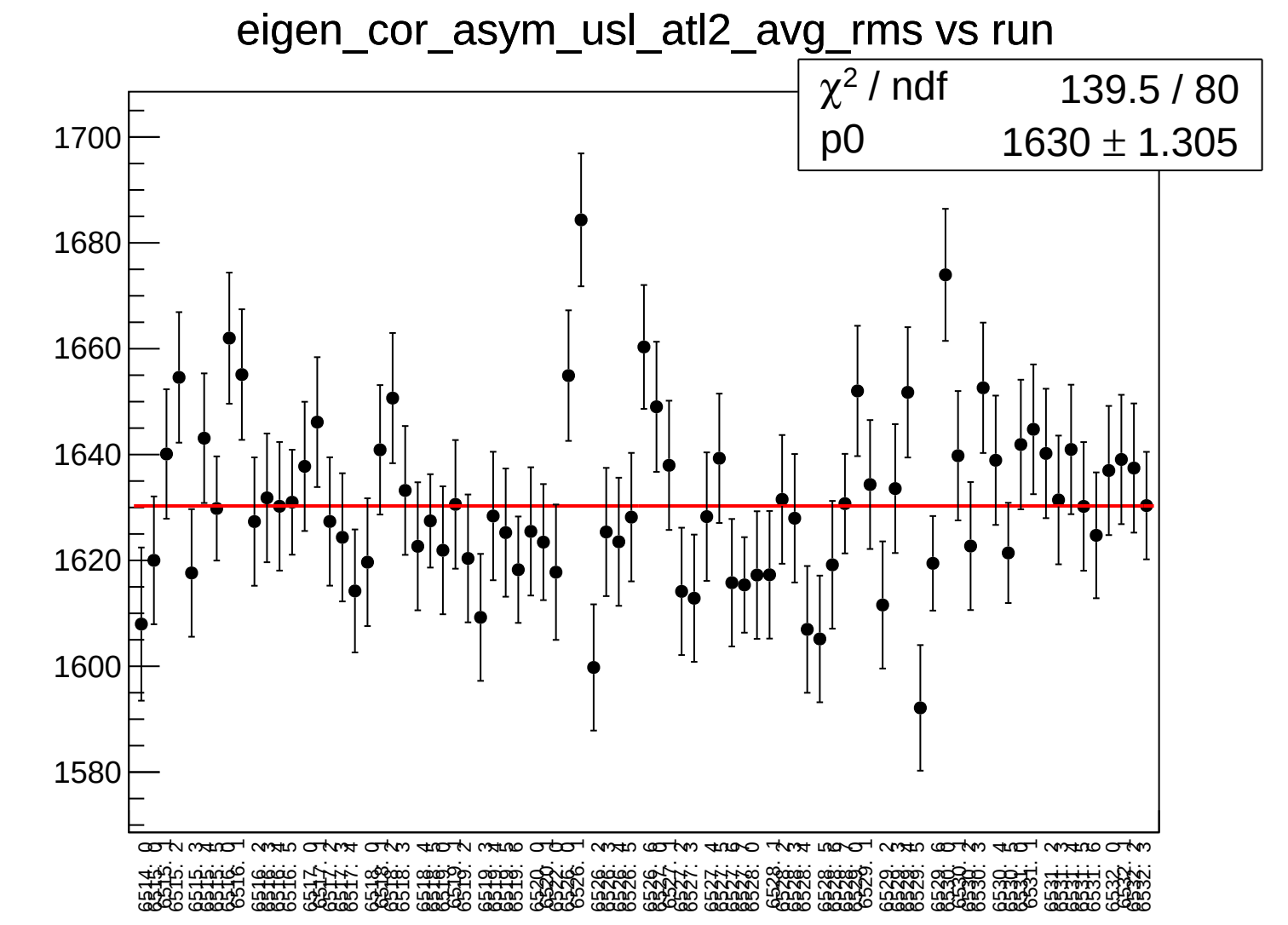

asym_usl_atl2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 87.35 / 80
p0 5603 ± 6245
pull
Entries 81
Mean −89.31
Std Dev 0

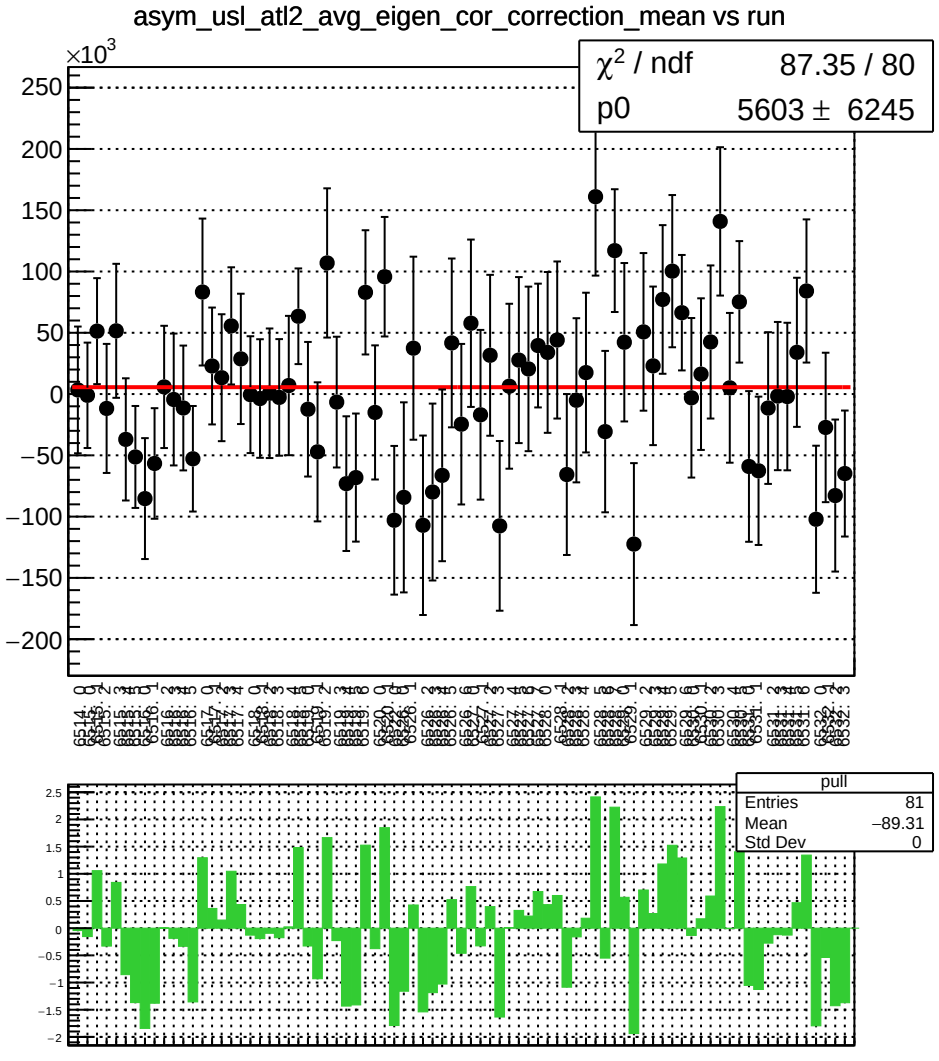

pull1D
Entries 81
Mean −0.01584
Std Dev 1.038

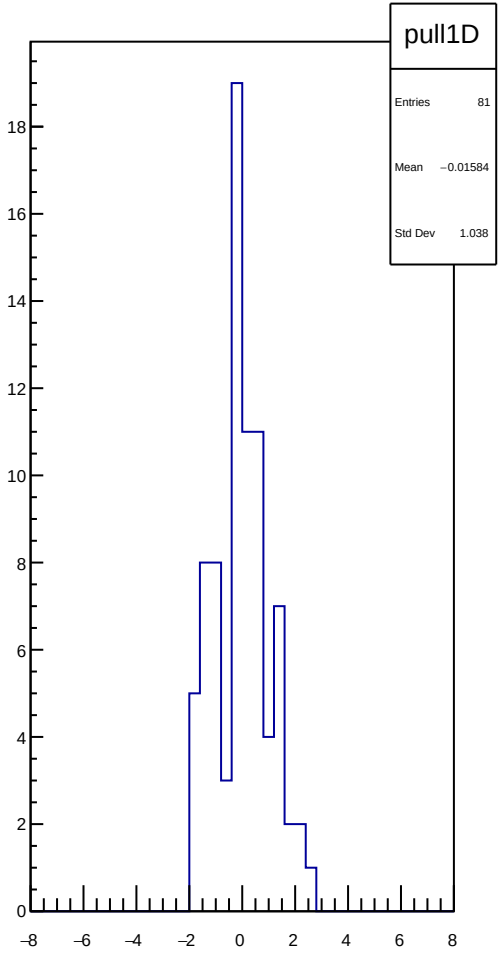

asym_usl_atl2_avg_cor_correction_rms vs run
χ² / ndf 2.836e+04 / 80
p0 5466 ± 4.416
7500
7000
6500
6000
5500
5000
4500
4000

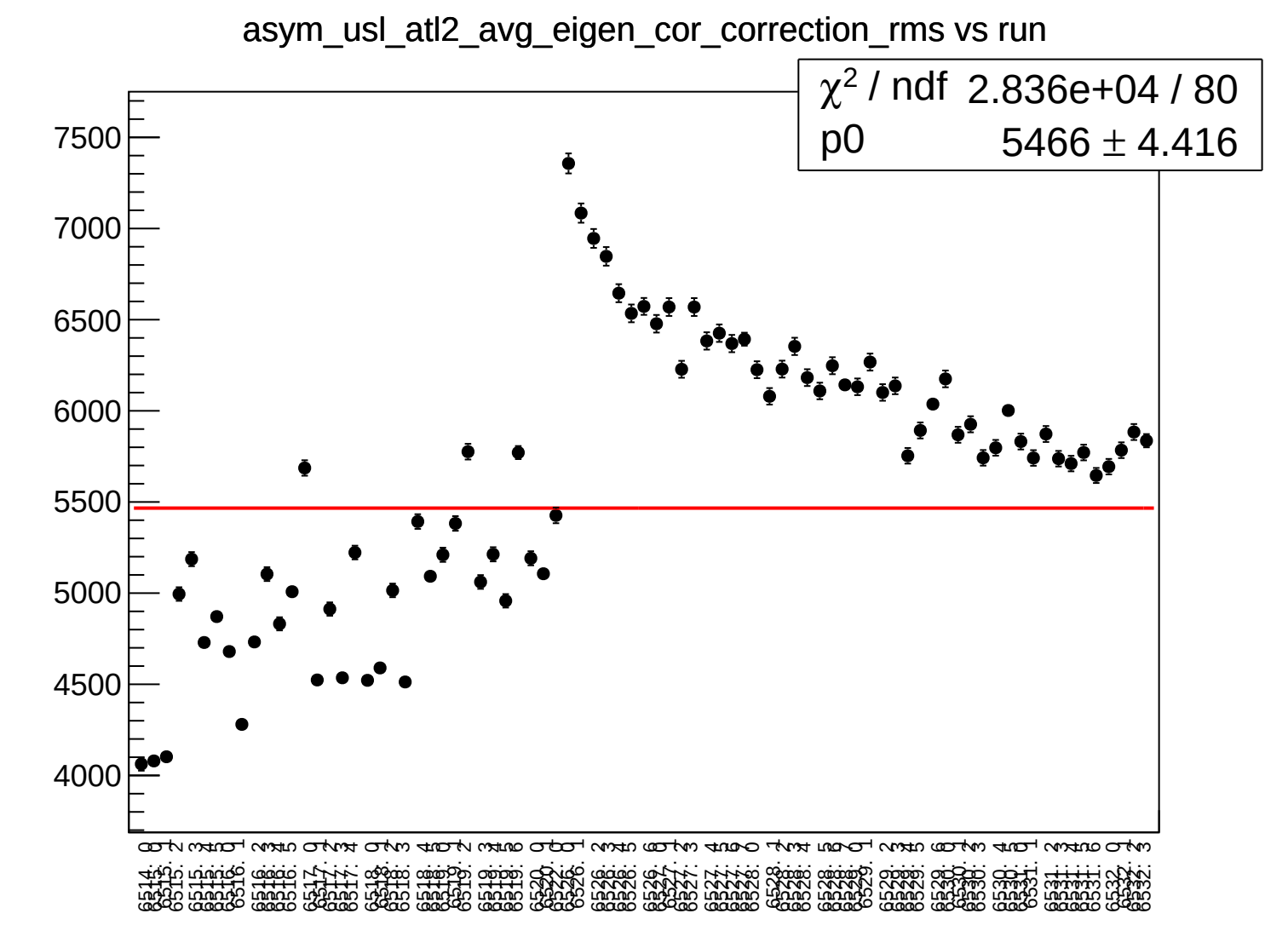

eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 73.91 / 80
p0 −225.1± 1845
pull
Entries 81
Mean −1474
Std Dev 0

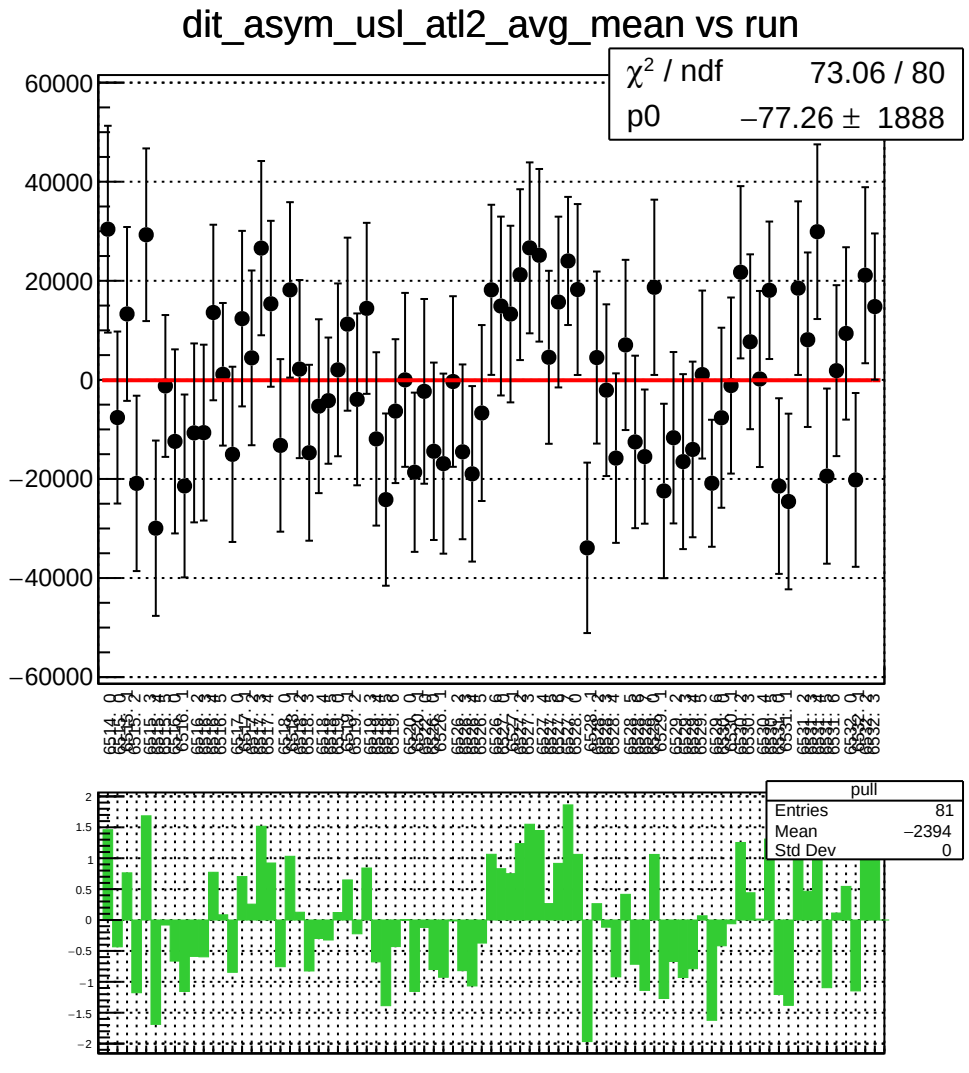

pull1D
Entries 81
Mean 0.001055
Std Dev 0.9552

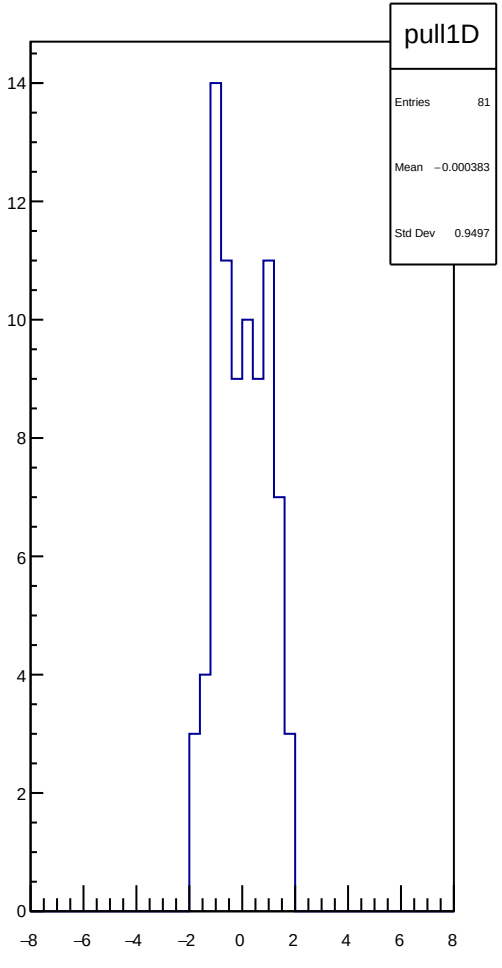

eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 139.5 / 80
p0 1630 ± 1.305
1700
1680
1660
1640
1620
1600
1580

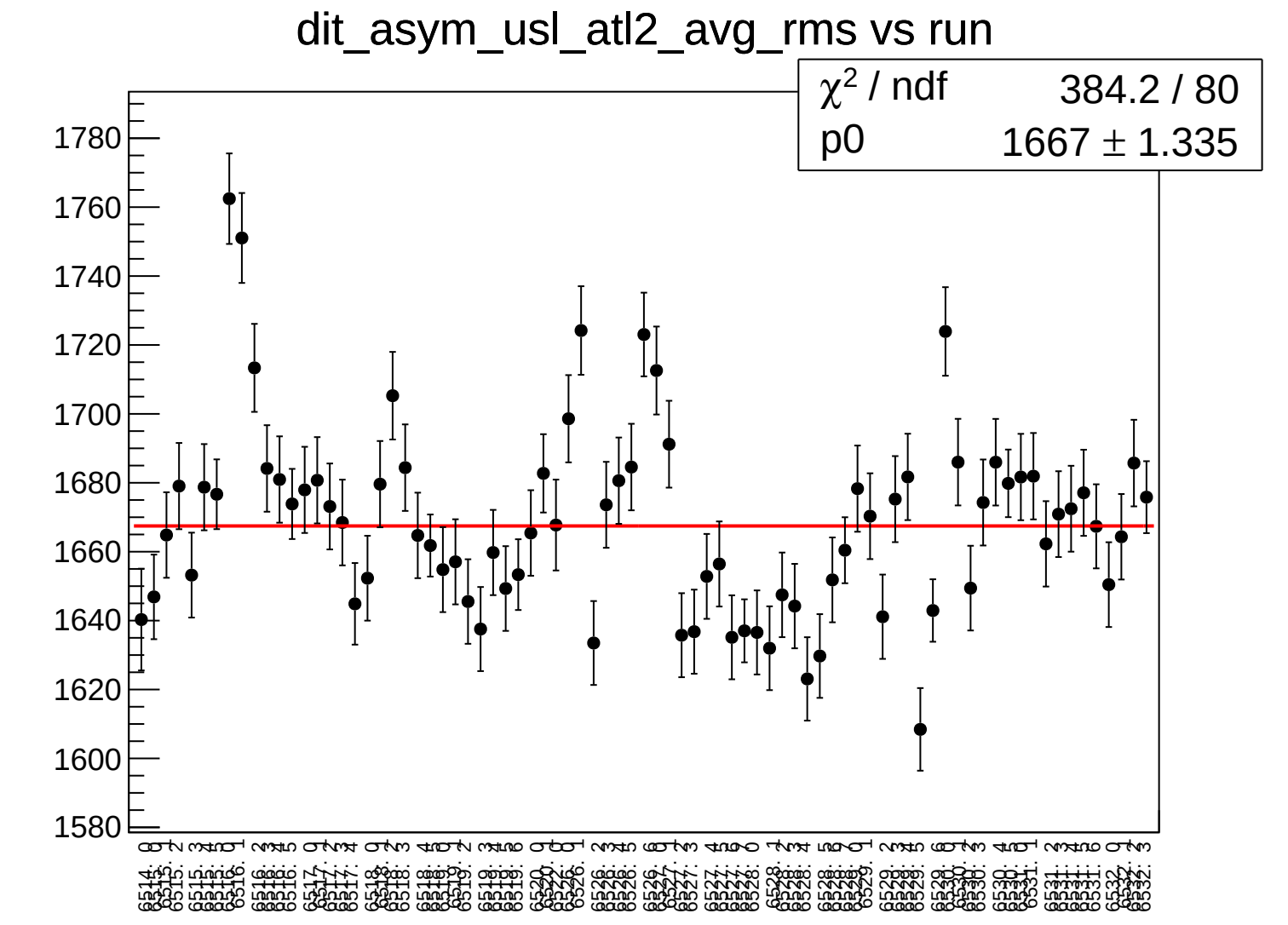

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 87.35 / 80
p0 5603 ± 6245
pull
Entries 81
Mean −89.31
Std Dev 0

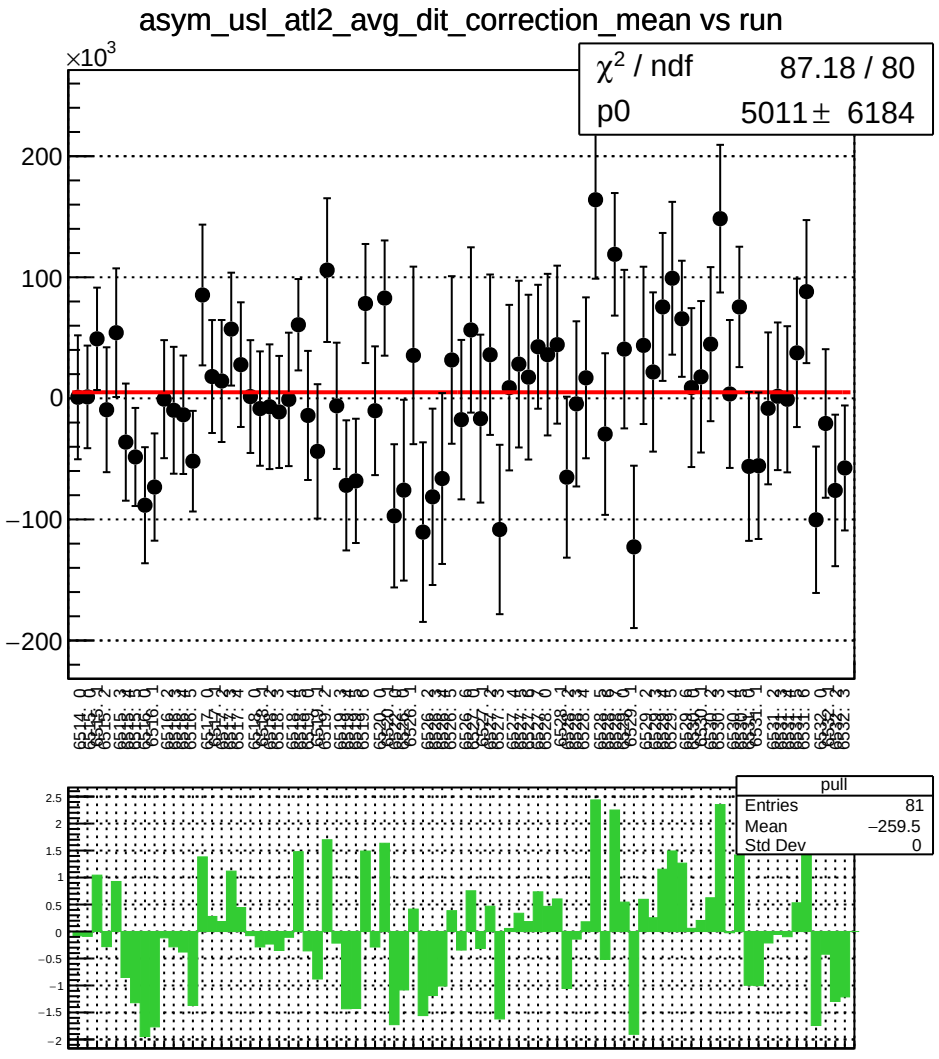

pull1D
Entries 81
Mean −0.01584
Std Dev 1.038

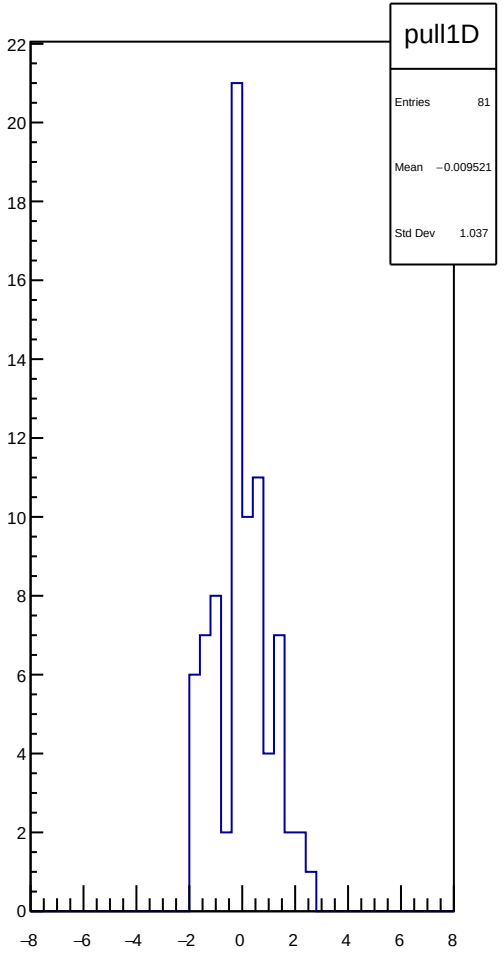

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.836e+04 / 80
p0 5466 ± 4.416
7500
7000
6500
6000
5500
5000
4500
4000

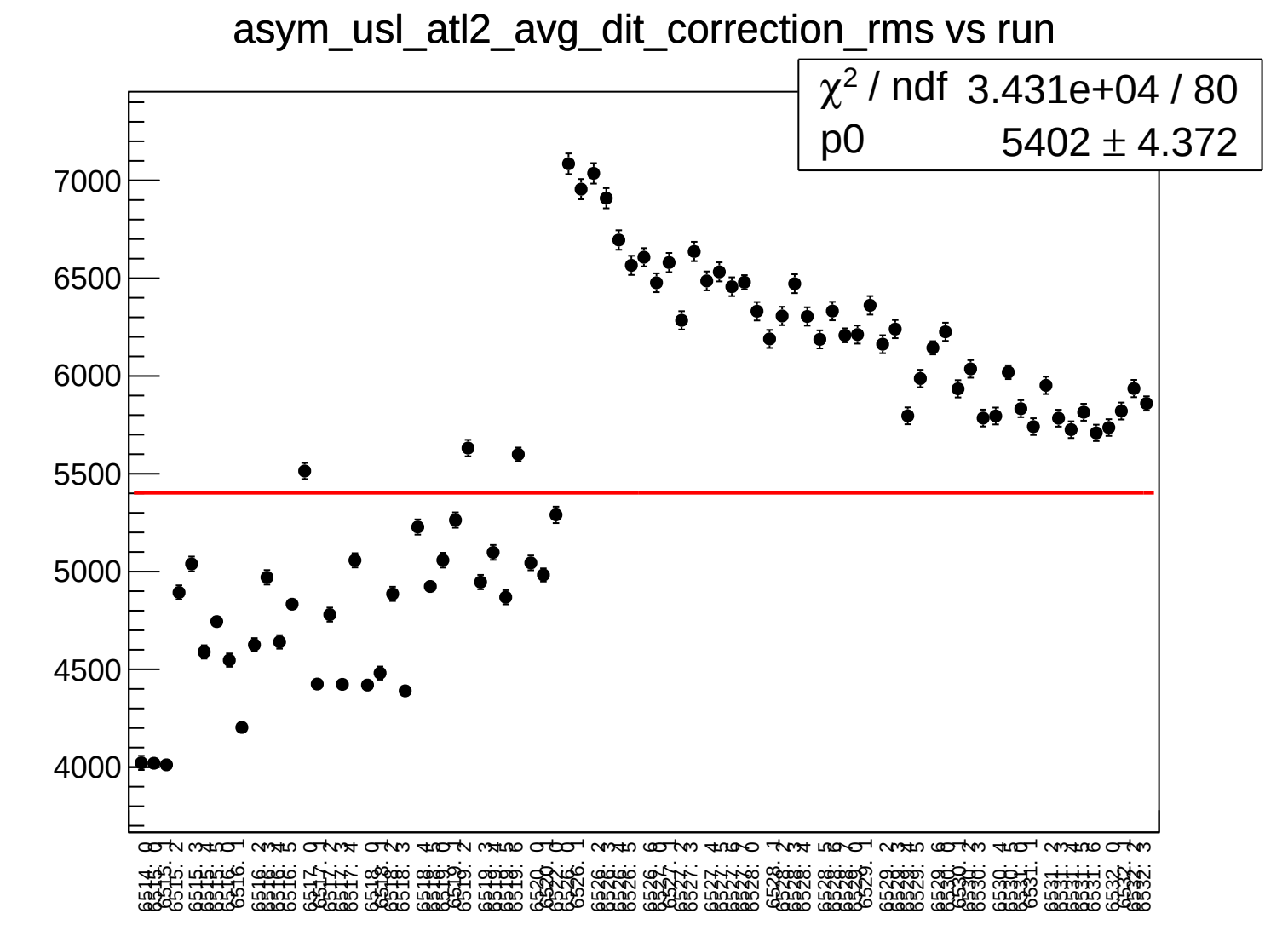

dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 73.06 / 80
p0 −77.26 ± 1888
pull
Entries 81
Mean −2394
Std Dev 0

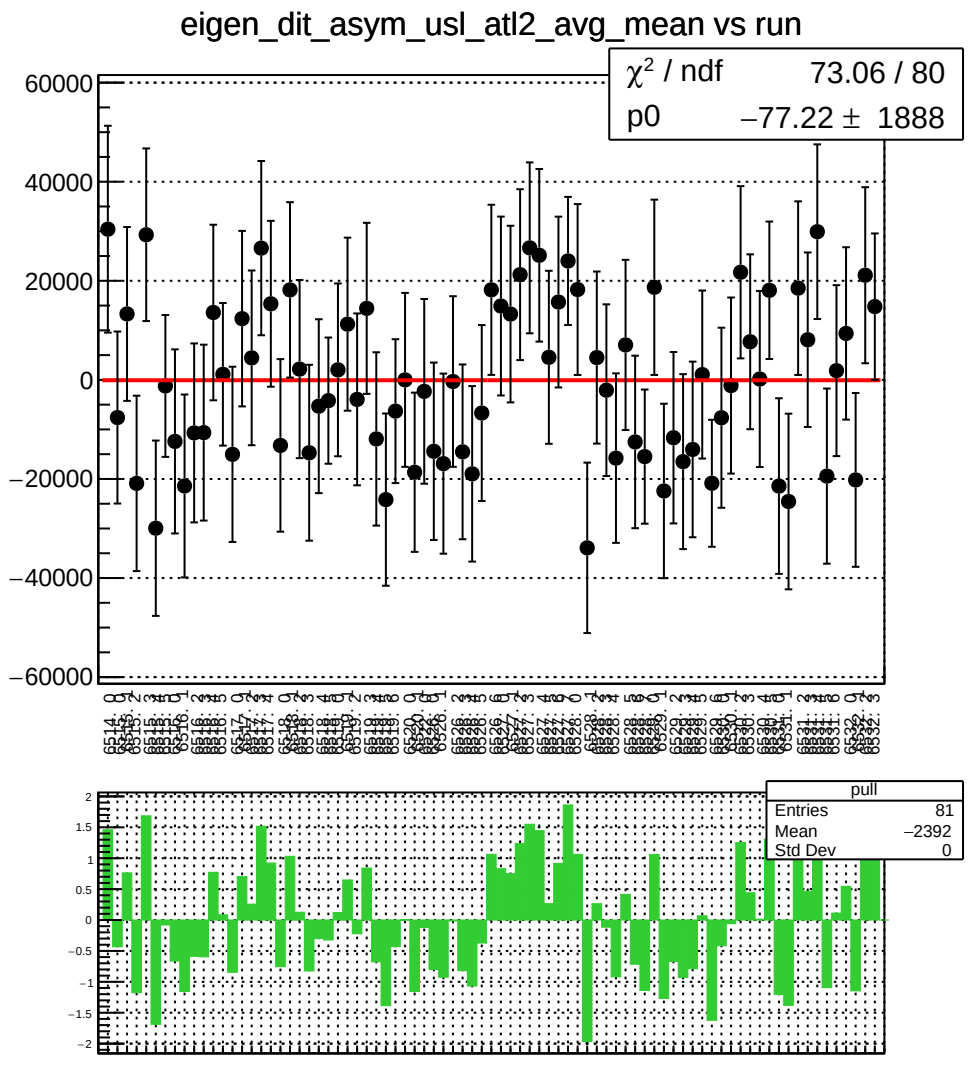

pull1D
Entries 81
Mean −0.000383
Std Dev 0.9497

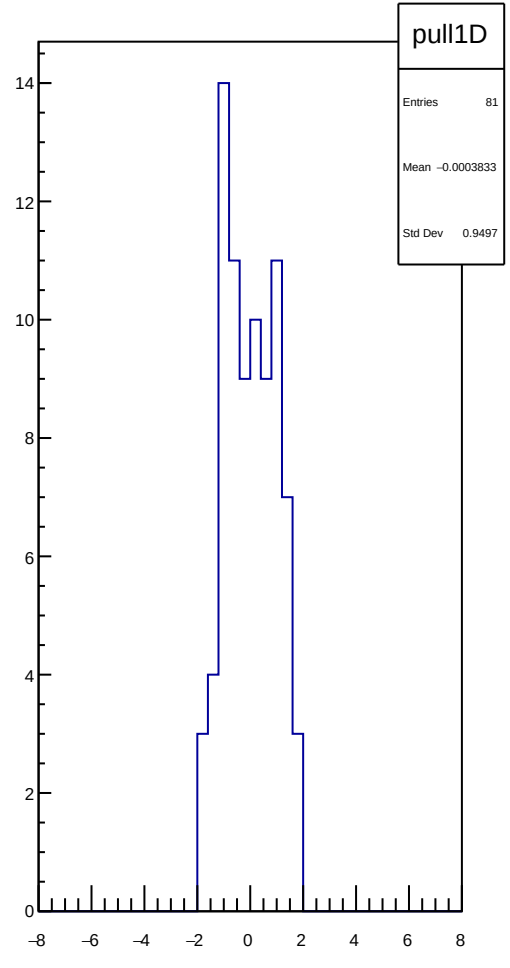

dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 384.2 / 80
p0 1667 ± 1.335
1780
1760
1740
1720
1700
1680
1660
1640
1620
1600
1580

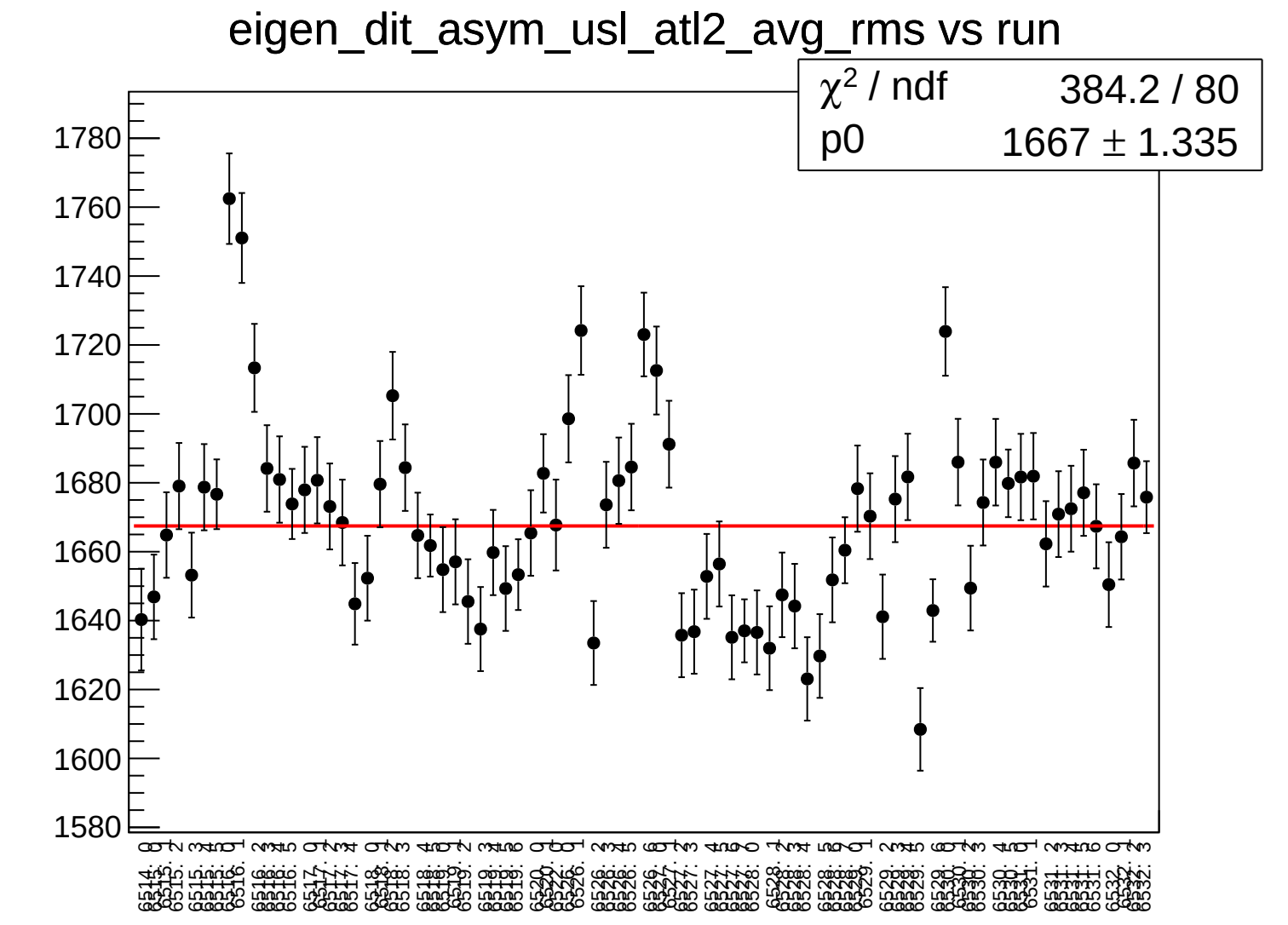

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 87.18 / 80
p0 5011 ± 6184
200
100
0
−100
−200
pull
Entries 81
Mean −259.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

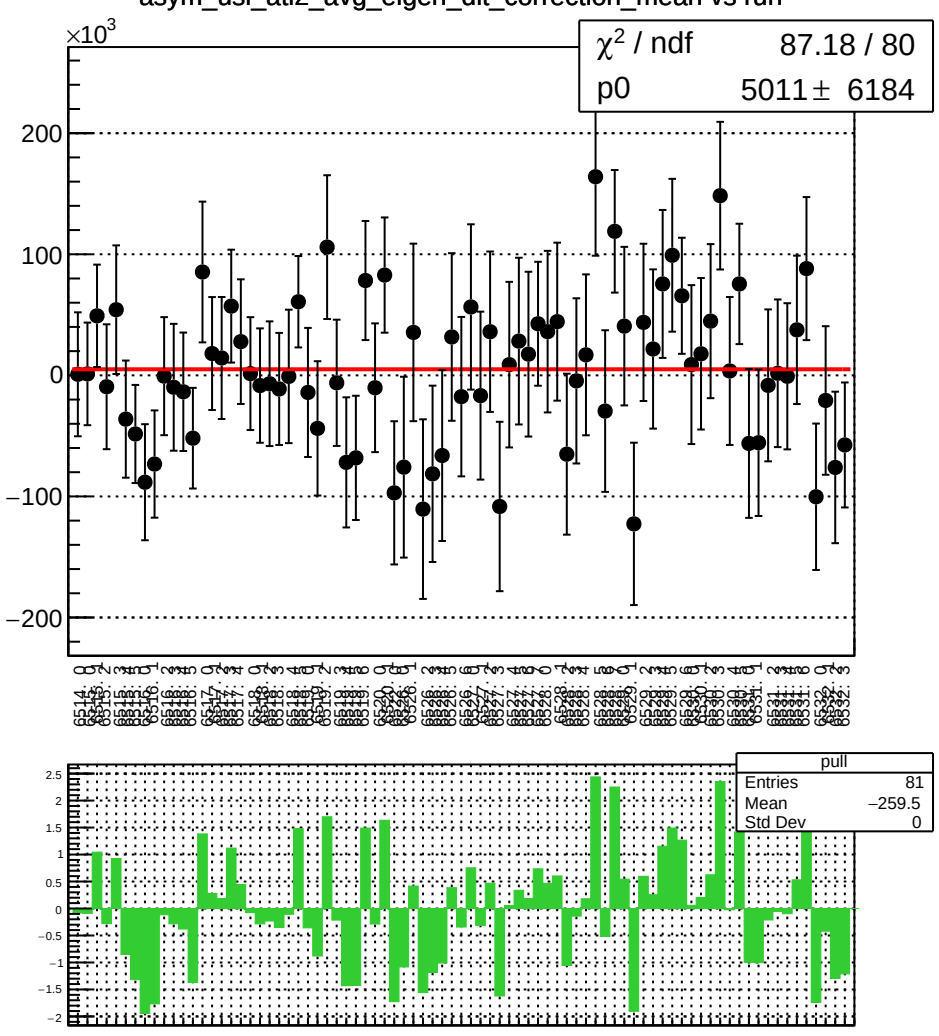

pull1D
Entries 81
Mean −0.009521
Std Dev 1.037
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

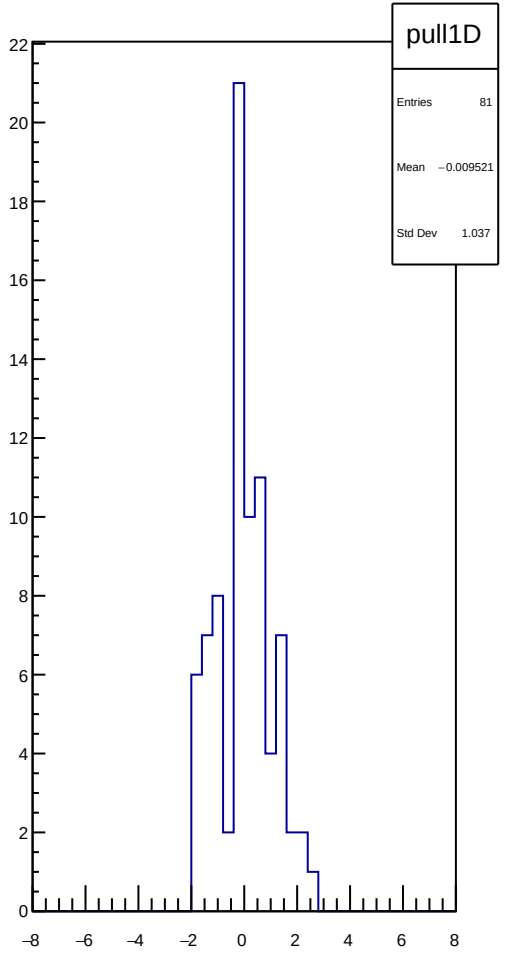

asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 3.431e+04 / 80
p0 5402 ± 4.372
7000
6500
6000
5500
5000
4500
4000

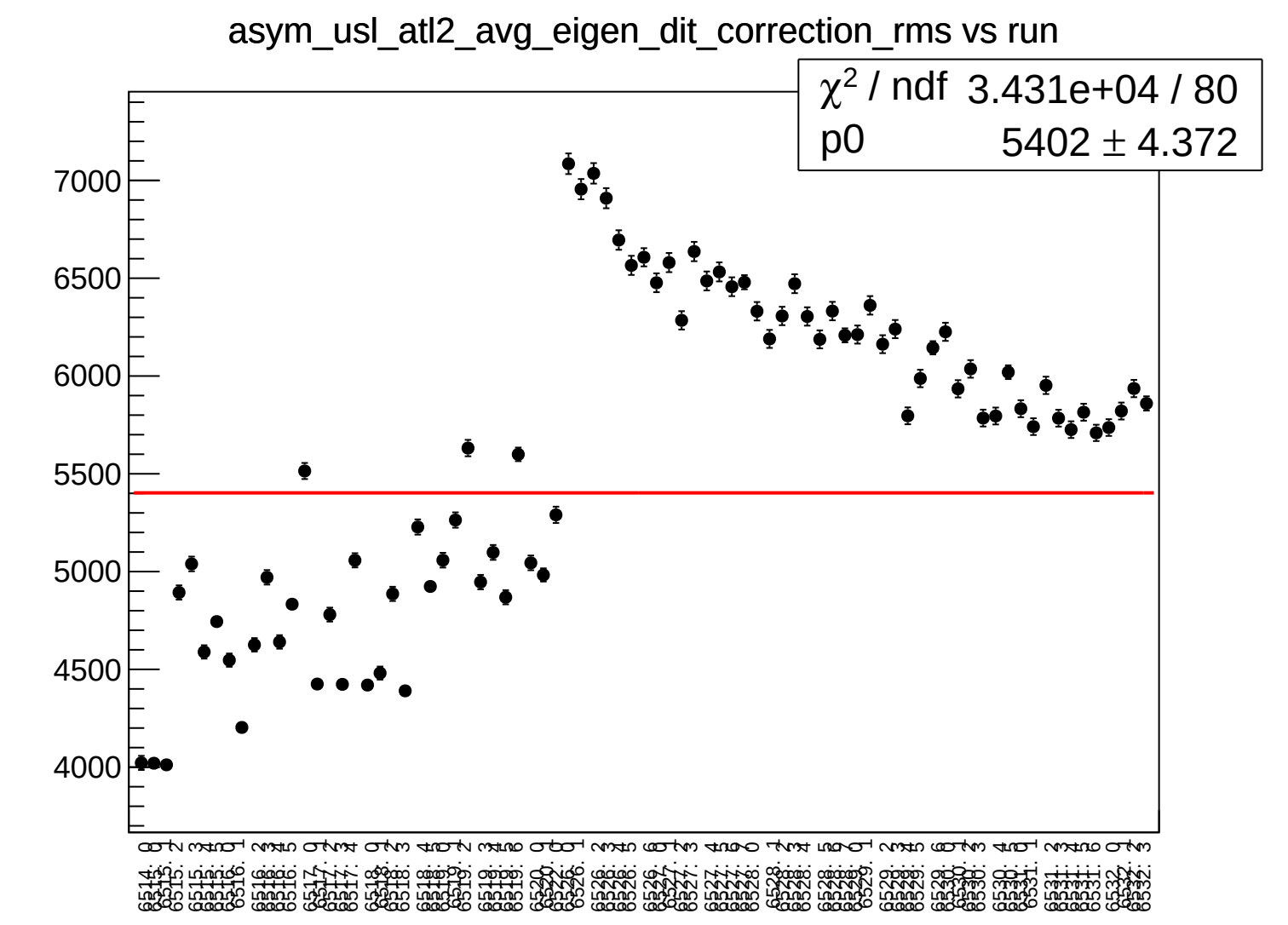

eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 73.06 / 80
p0 −77.22 ± 1888
pull
Entries 81
Mean −2392
Std Dev 0

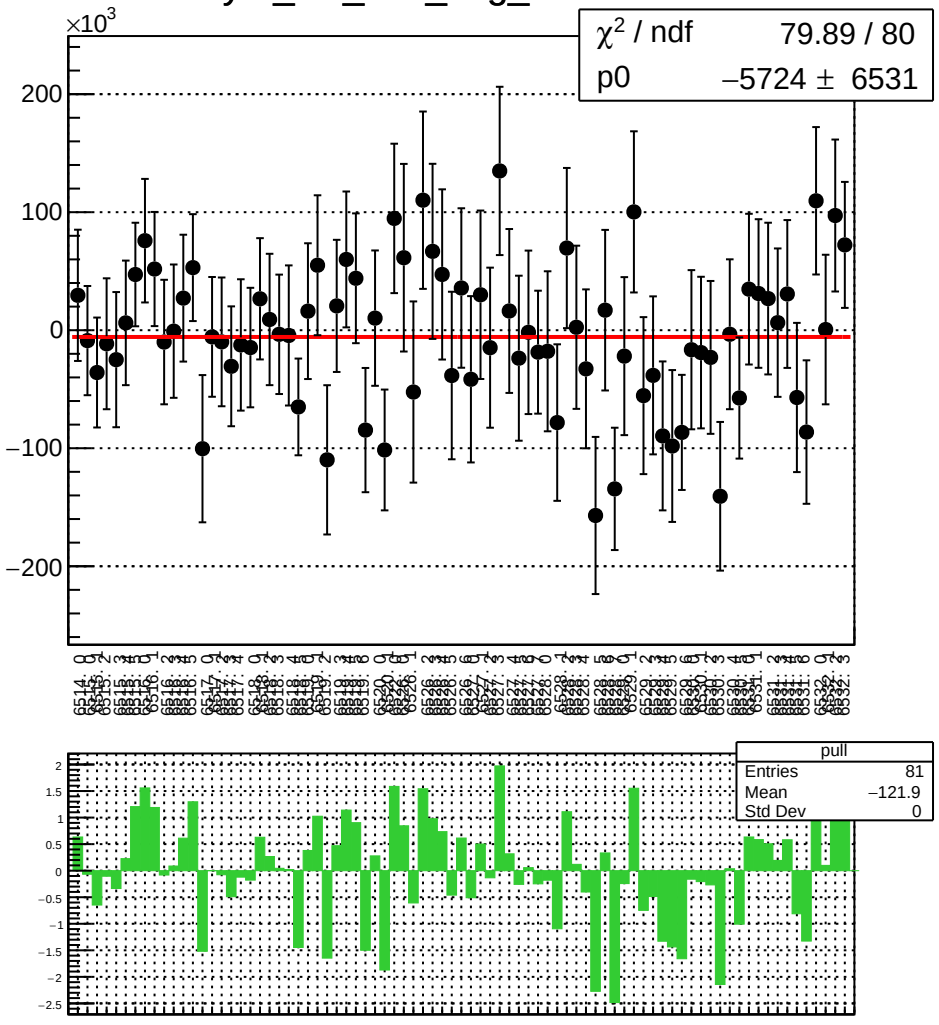

pull1D
Entries 81
Mean −0.0003833
Std Dev 0.9497

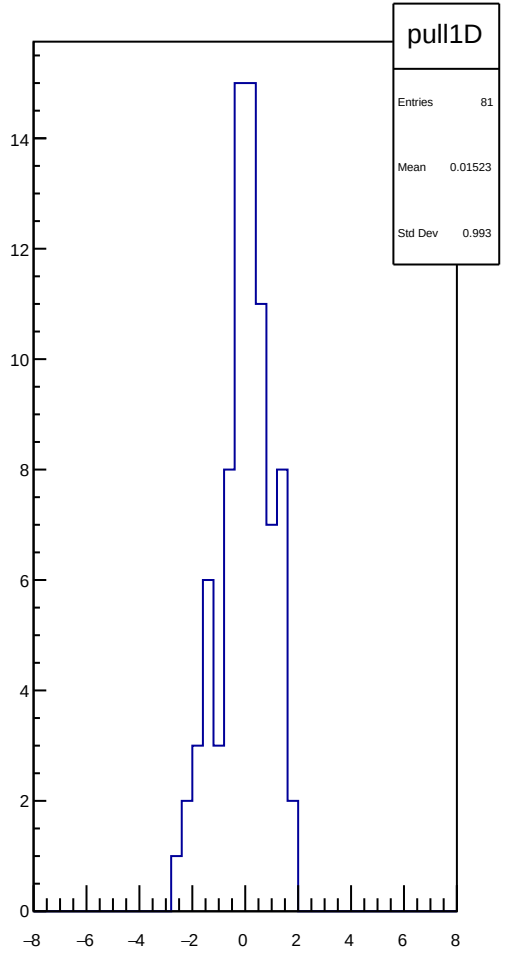

eigen_dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 384.2 / 80
p0 1667 ± 1.335
1780
1760
1740
1720
1700
1680
1660
1640
1620
1600
1580

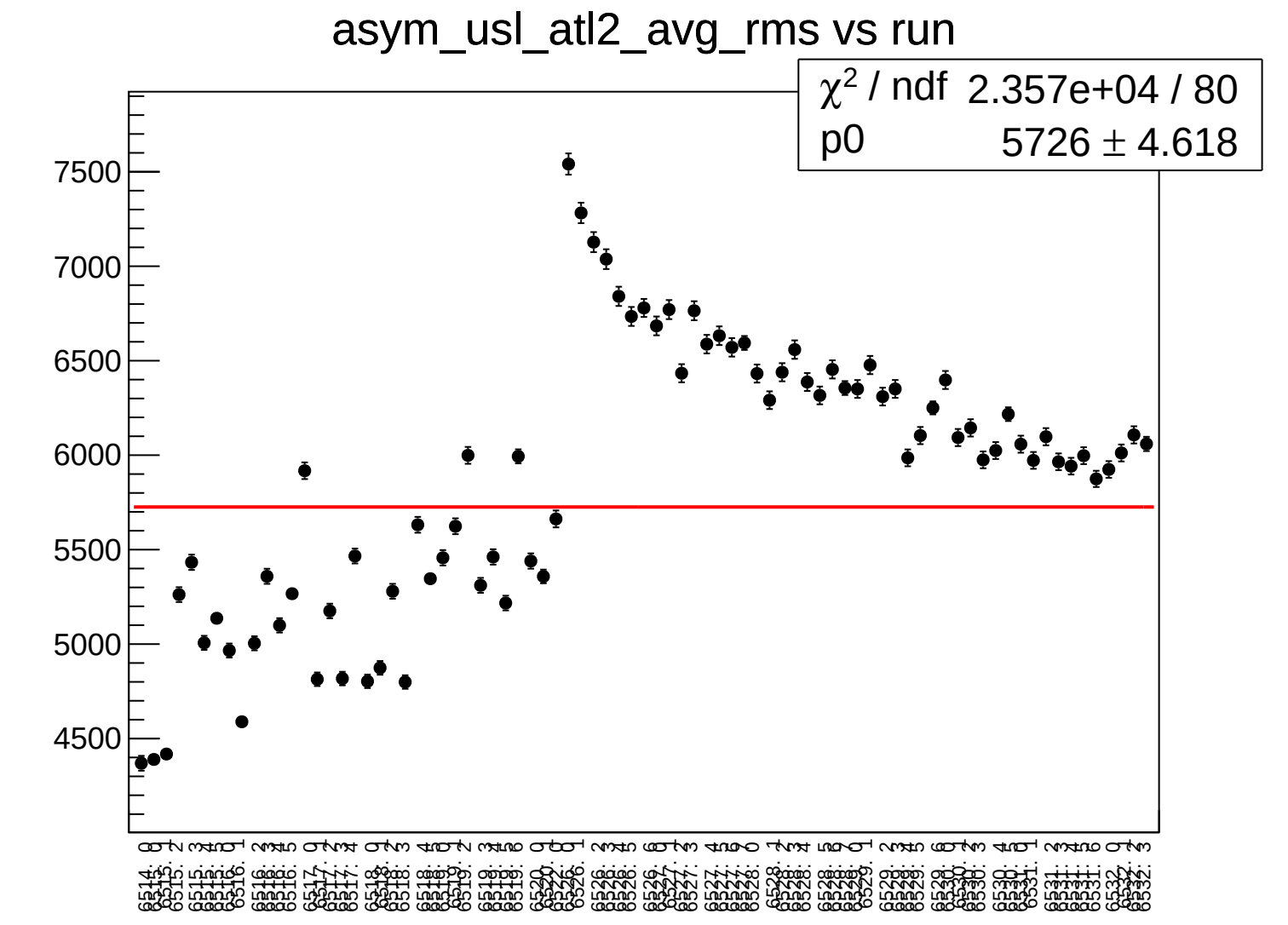

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 87.18 / 80
p0 5011 ± 6184
200
100
0
−100
−200
pull
Entries 81
Mean −259.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

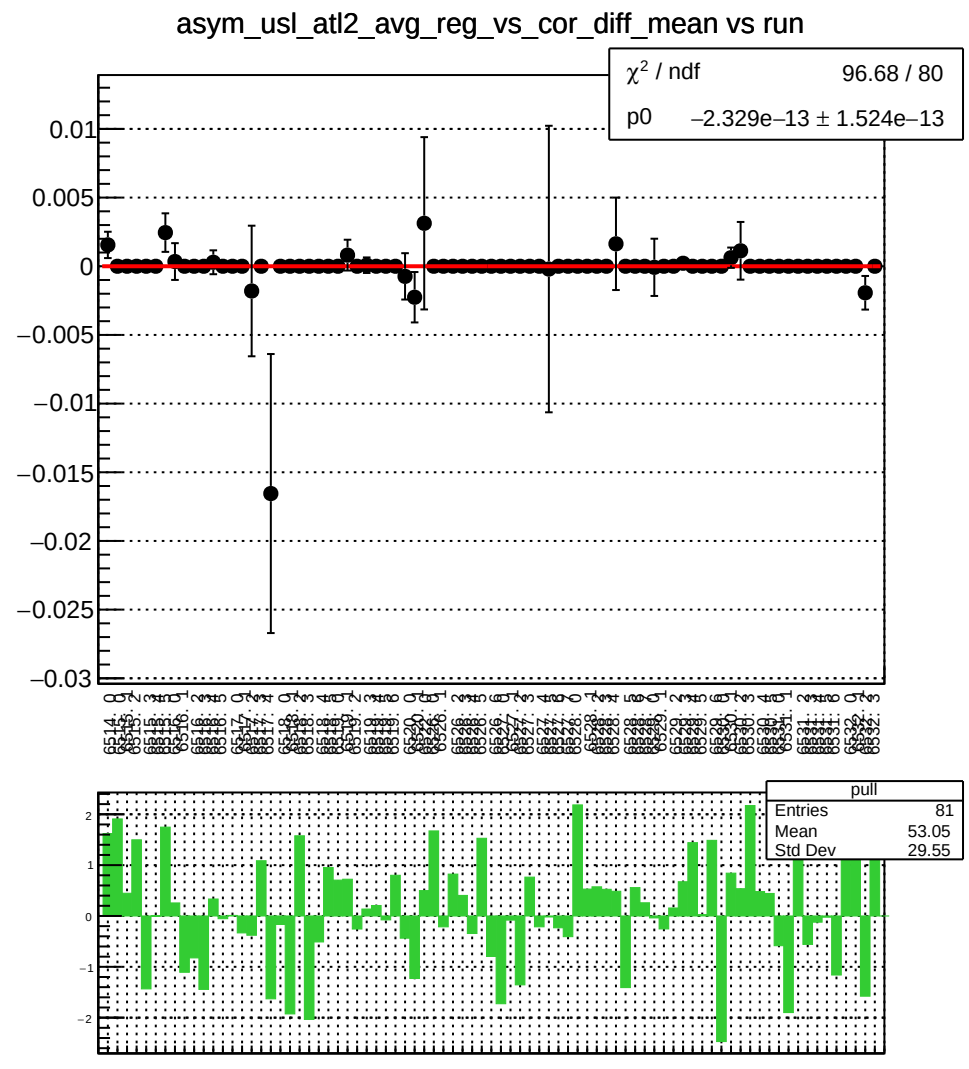

pull1D
Entries 81
Mean −0.009521
Std Dev 1.037
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

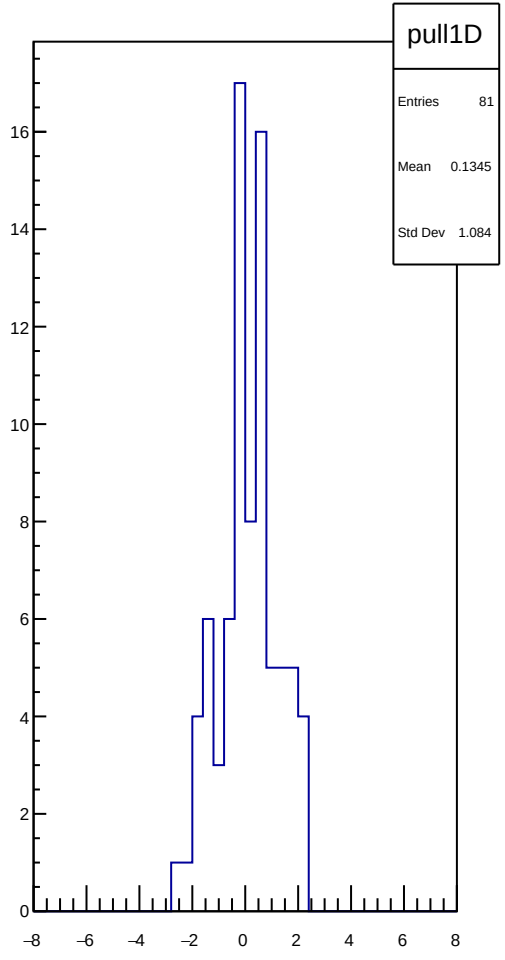

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.431e+04 / 80
p0 5402 ± 4.372
7000
6500
6000
5500
5000
4500
4000

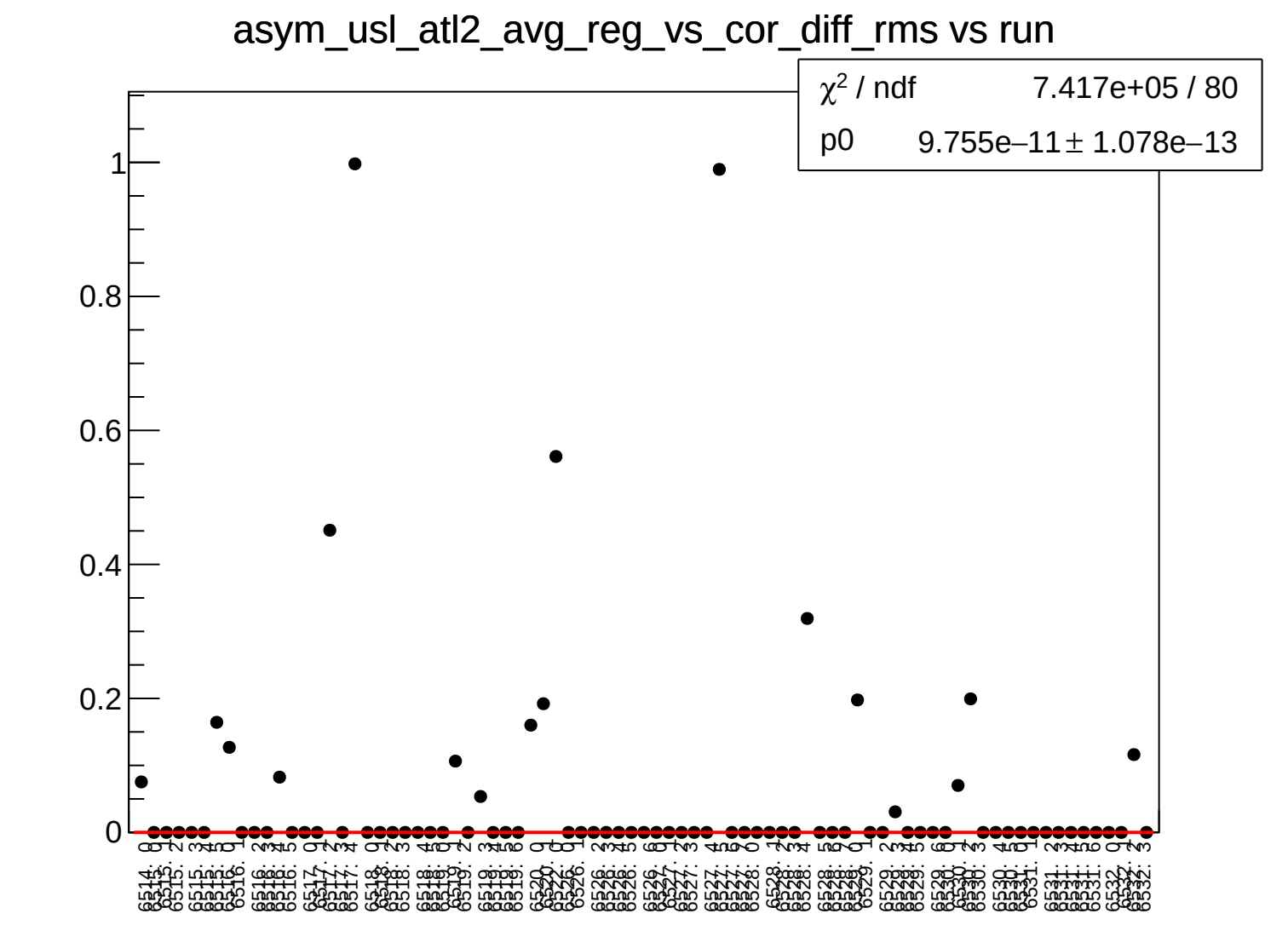

asym_usl_atl2_avg_mean vs run
×10^3
χ^2 / ndf 79.89 / 80
p0 −5724 ± 6531
200
100
0
−100
−200
pull
Entries 81
Mean −121.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

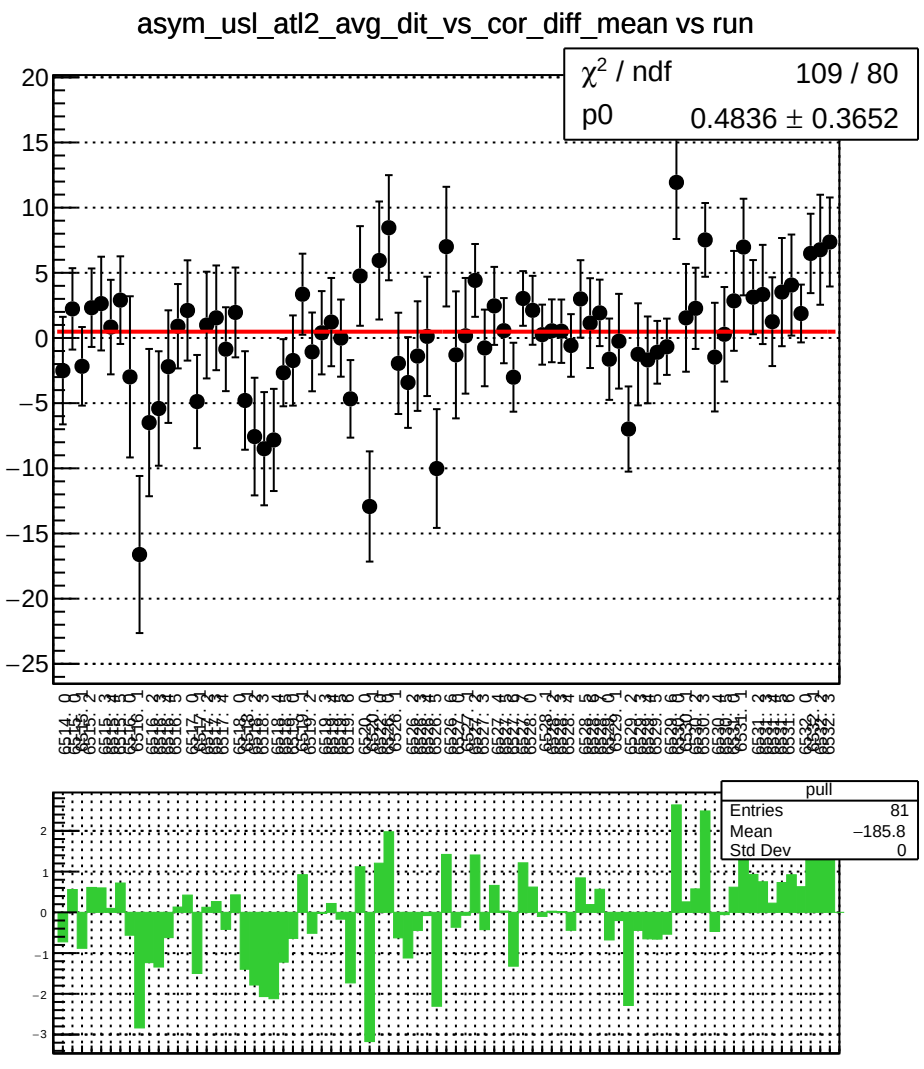

pull1D
Entries 81
Mean 0.01523
Std Dev 0.993
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

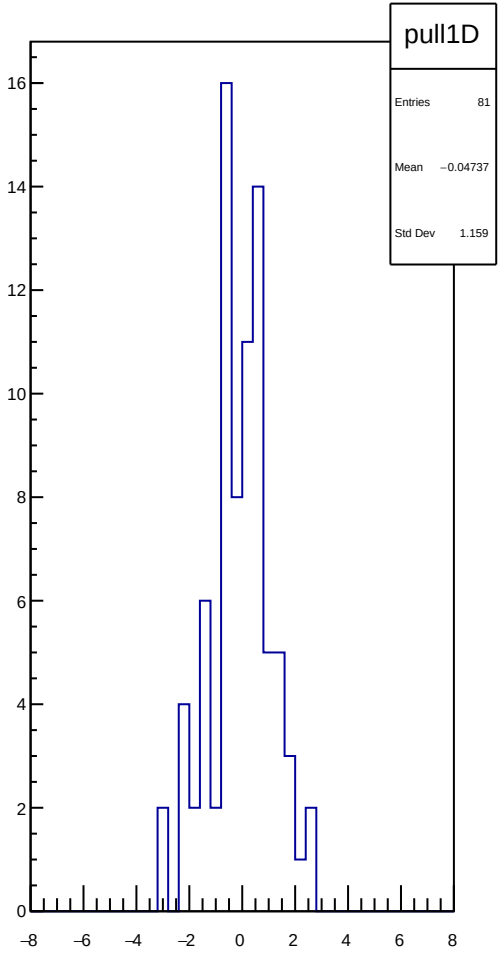

asym_usl_atl2_avg_rms vs run
χ² / ndf 2.357e+04 / 80
p0 5726 ± 4.618
7500
7000
6500
6000
5500
5000
4500

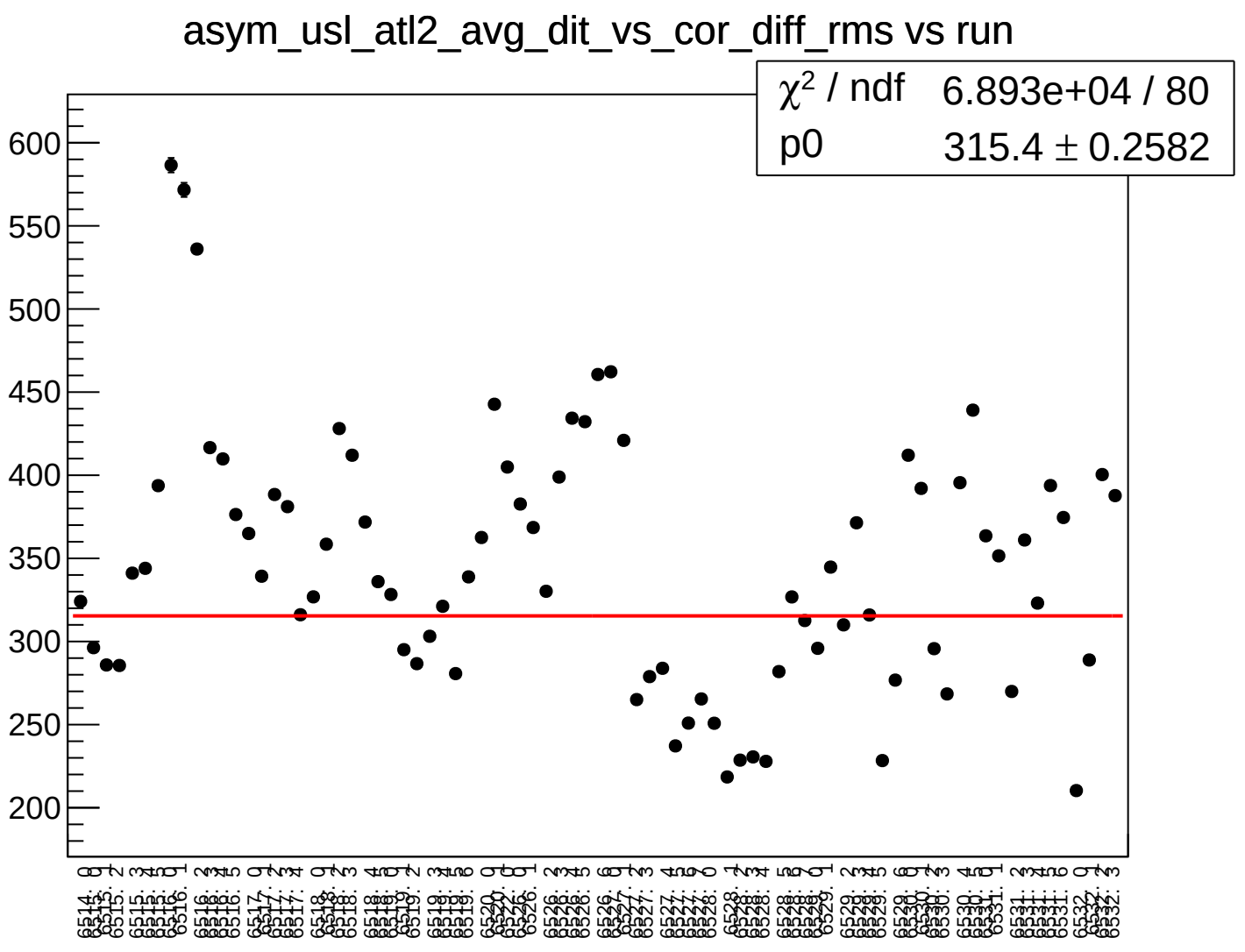

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 96.68 / 80
p0 −2.329e−13 ± 1.524e−13
pull
Entries 81
Mean 53.05
Std Dev 29.55

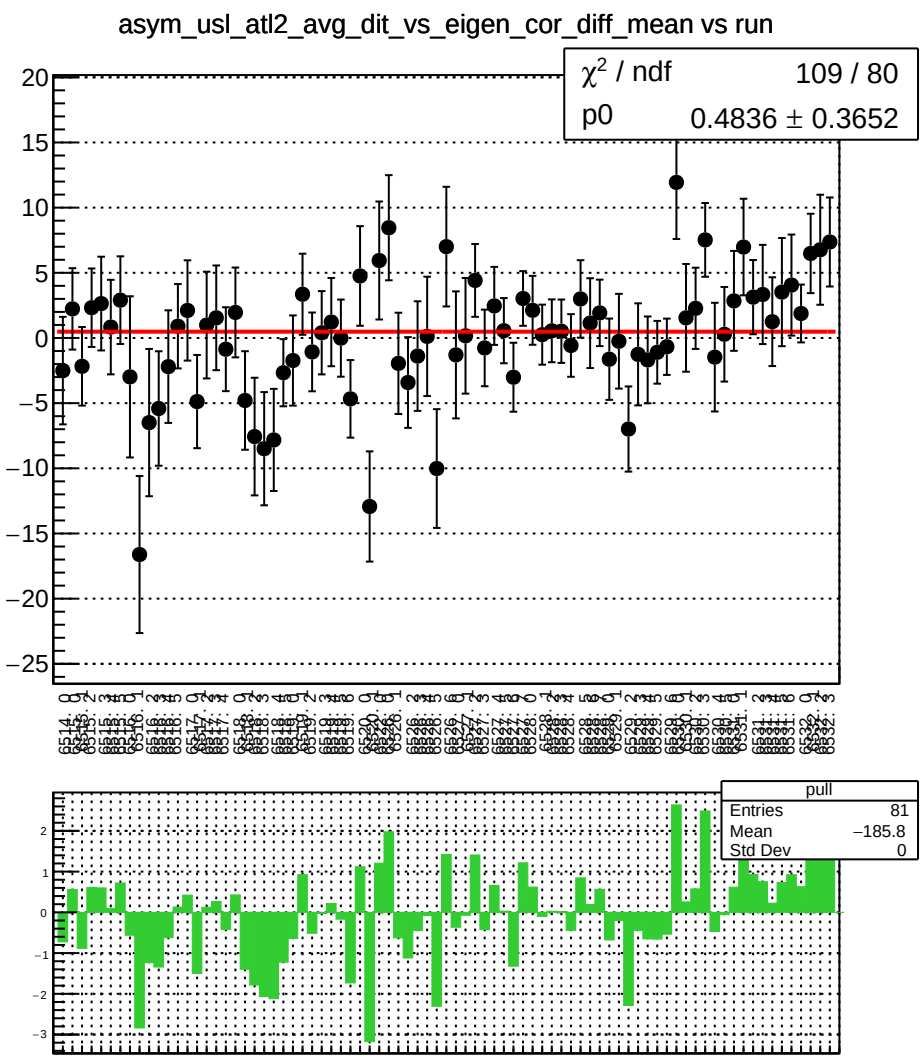

pull1D
Entries 81
Mean 0.1345
Std Dev 1.084

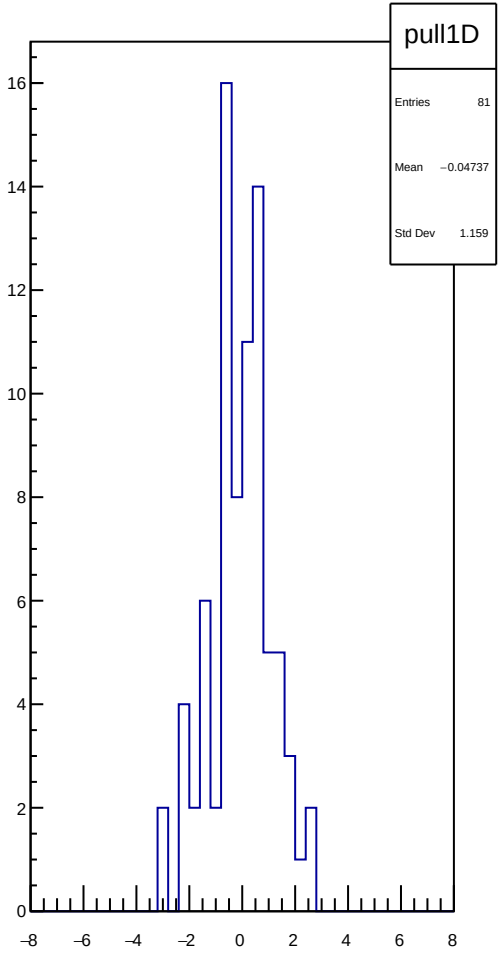

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 7.417e+05 / 80
p0 9.755e−11 ± 1.078e−13
1
0.8
0.6
0.4
0.2
0

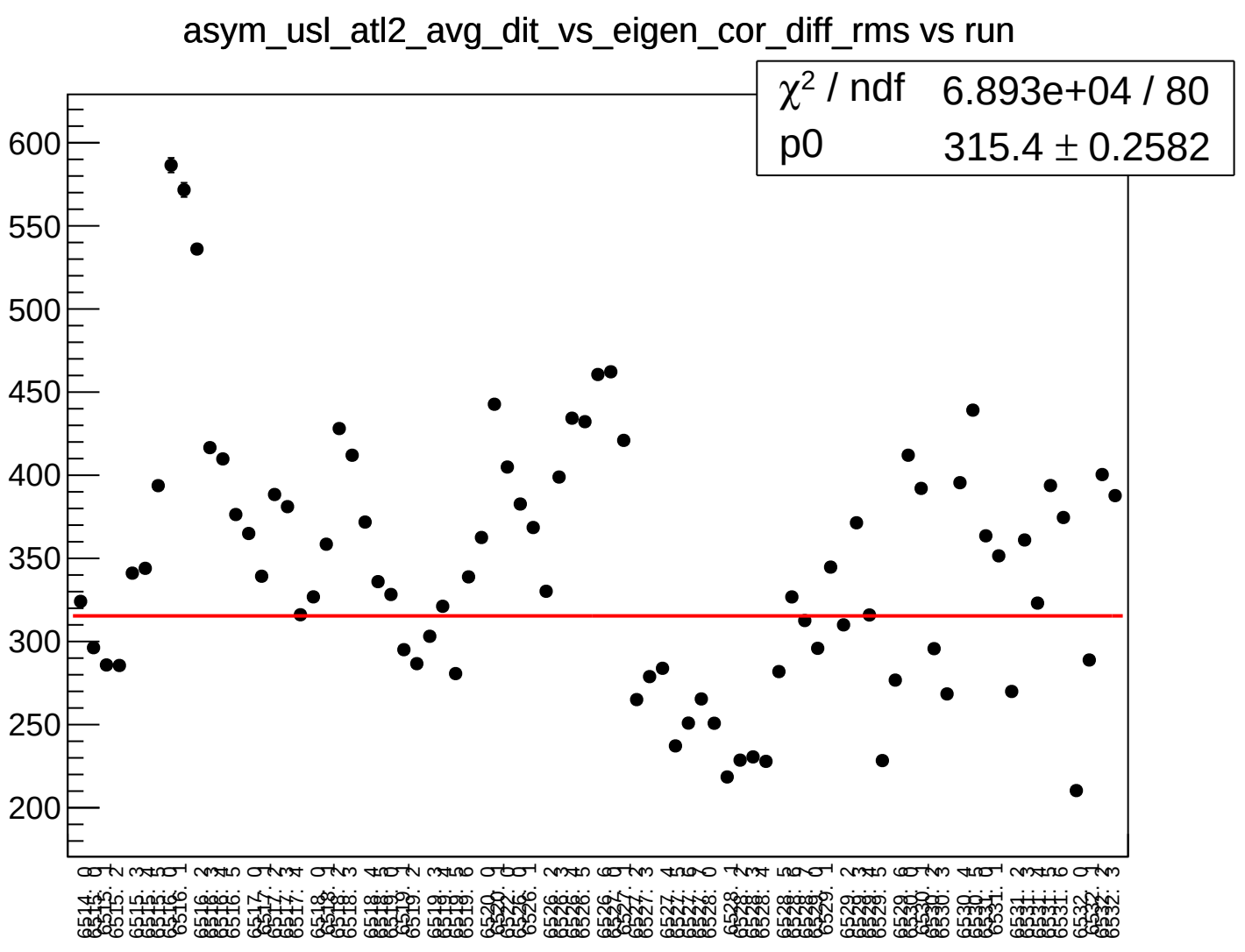

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 109 / 80
p0 0.4836 ± 0.3652
pull
Entries 81
Mean −185.8
Std Dev 0

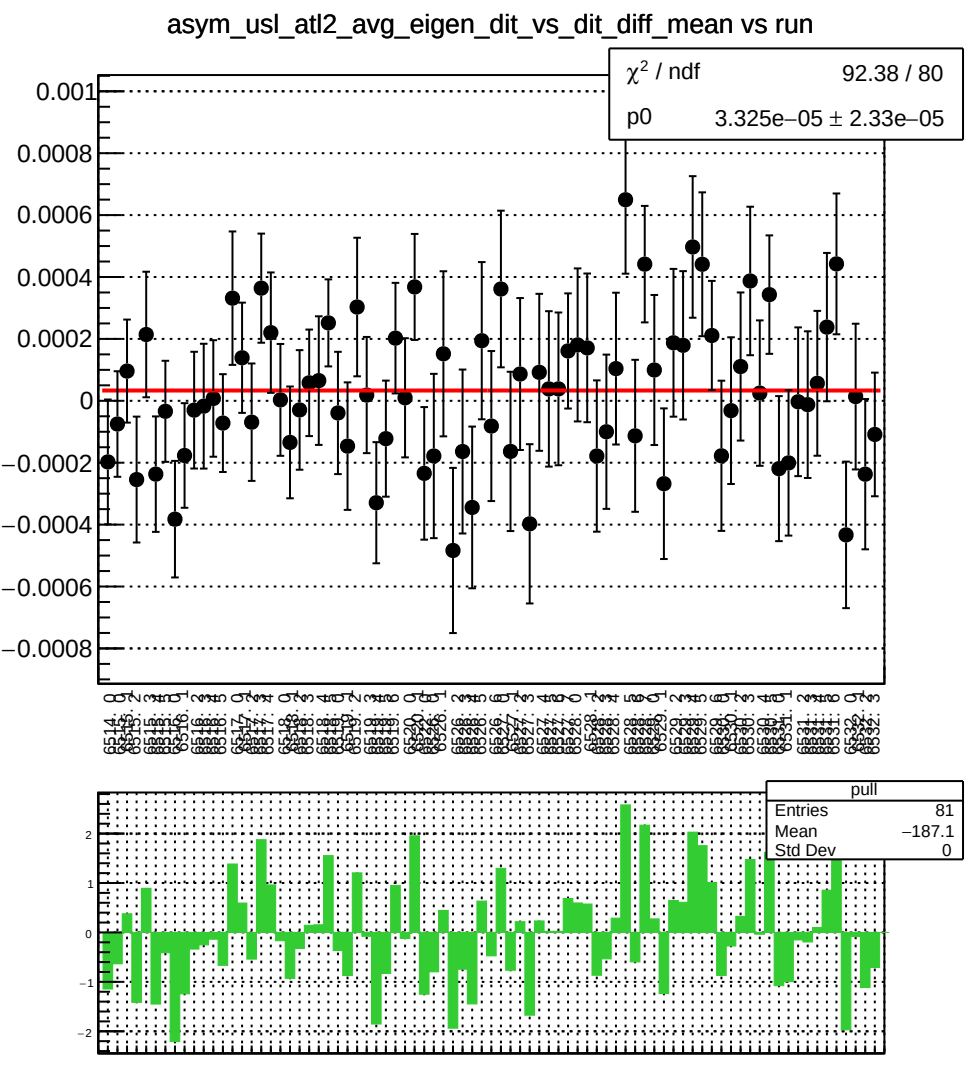

pull1D
Entries 81
Mean −0.04737
Std Dev 1.159

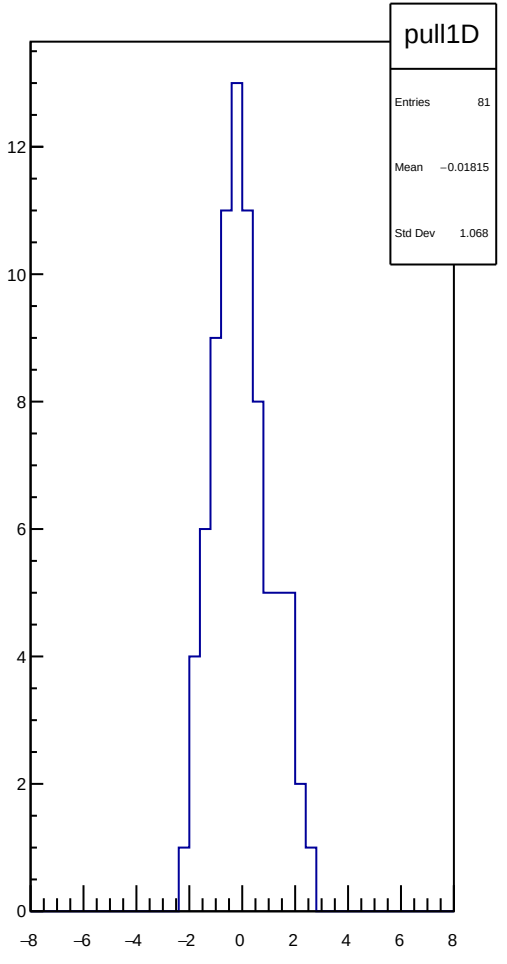

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.893e+04 / 80
p0 315.4 ± 0.2582
600
550
500
450
400
350
300
250
200

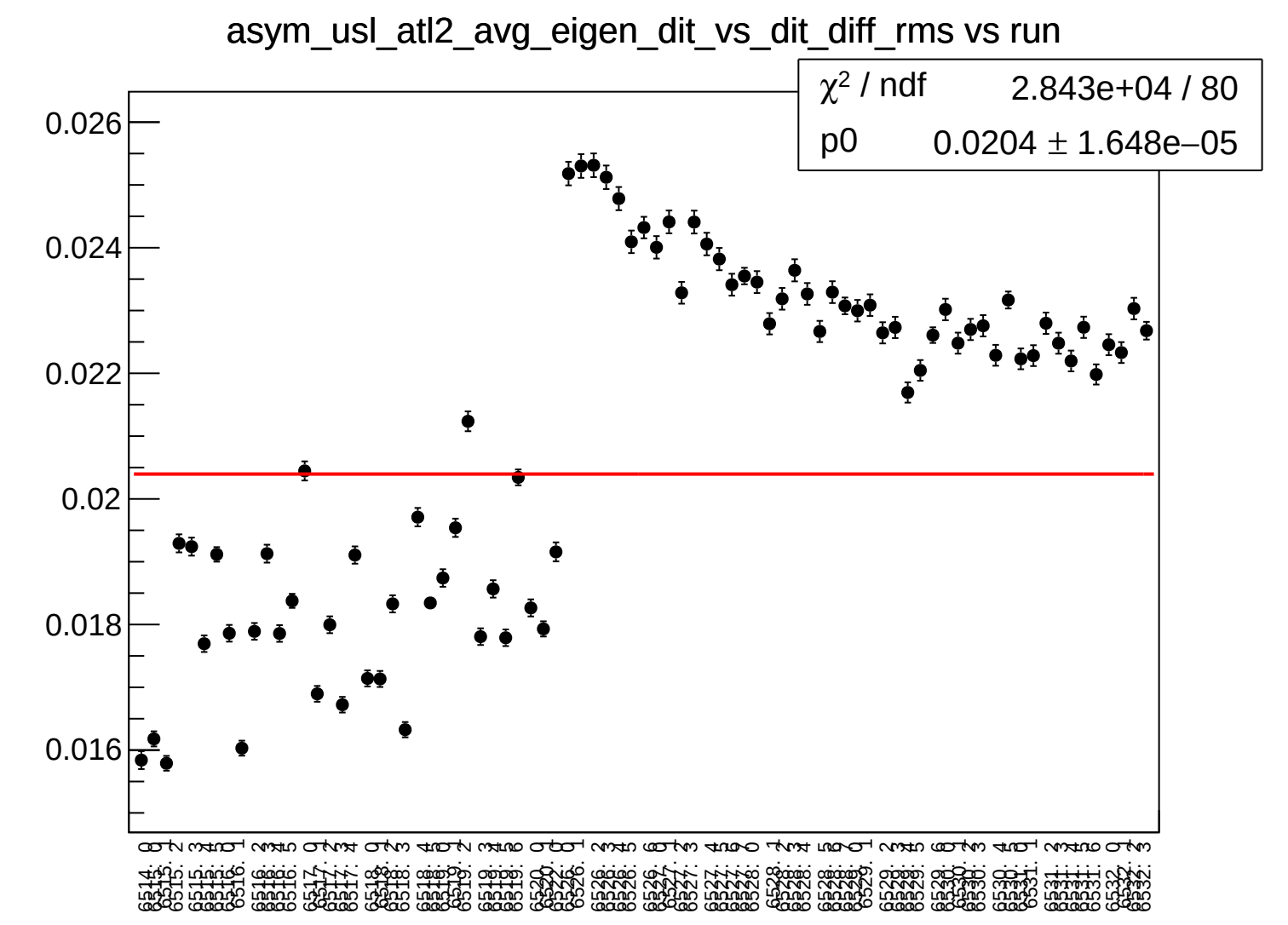

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109 / 80
p0 0.4836 ± 0.3652
pull
Entries 81
Mean −185.8
Std Dev 0

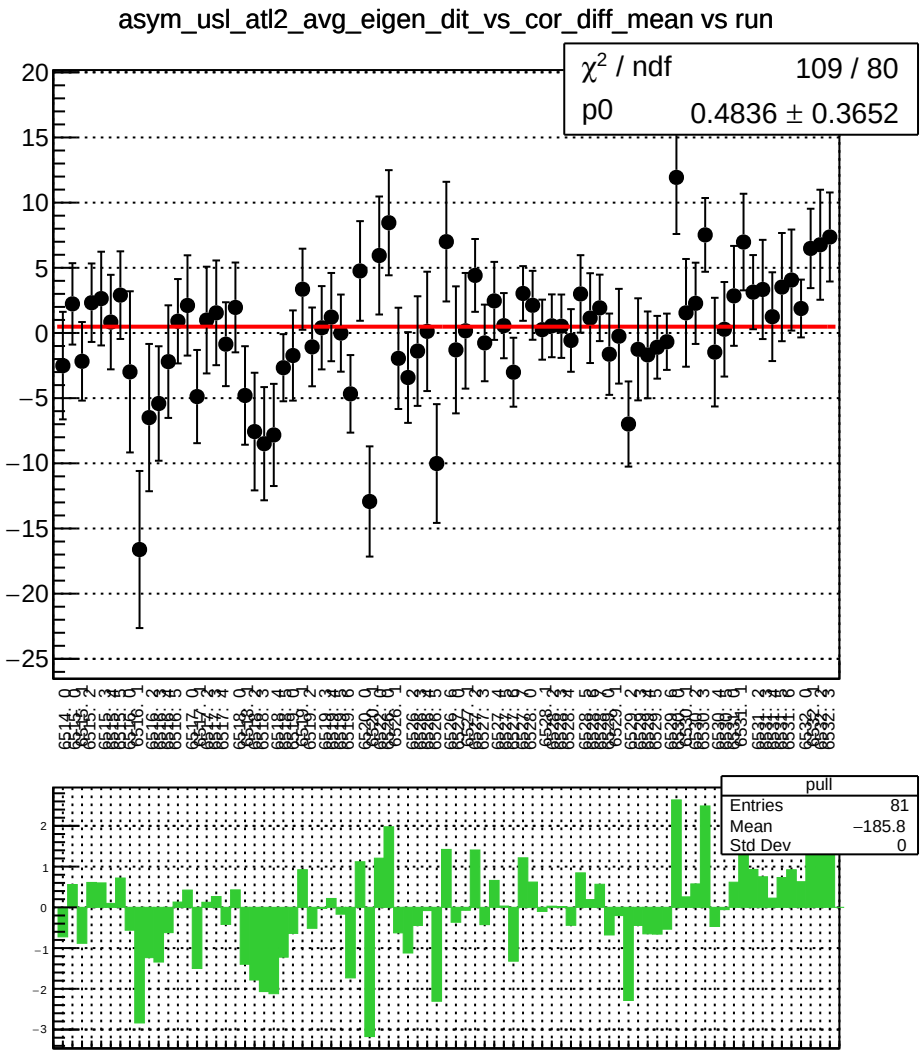

pull1D
Entries 81
Mean −0.04737
Std Dev 1.159

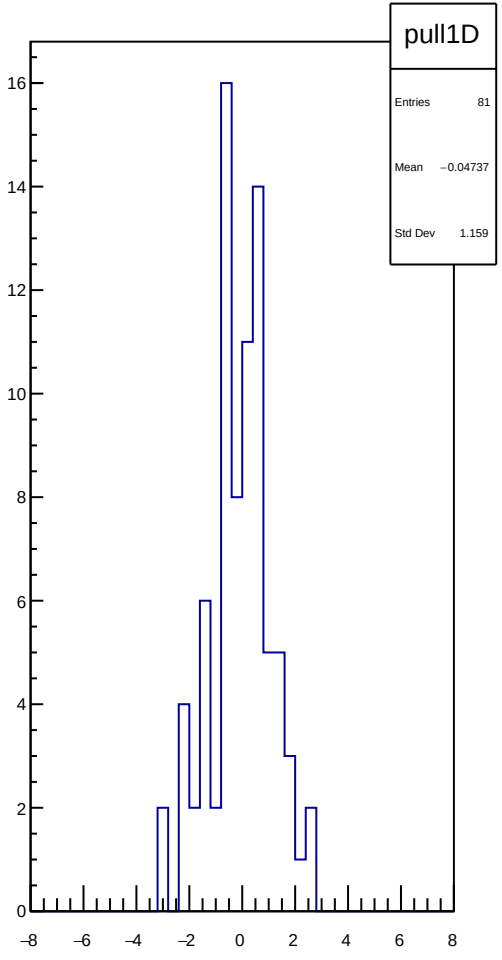

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.893e+04 / 80
p0 315.4 ± 0.2582
600
550
500
450
400
350
300
250
200

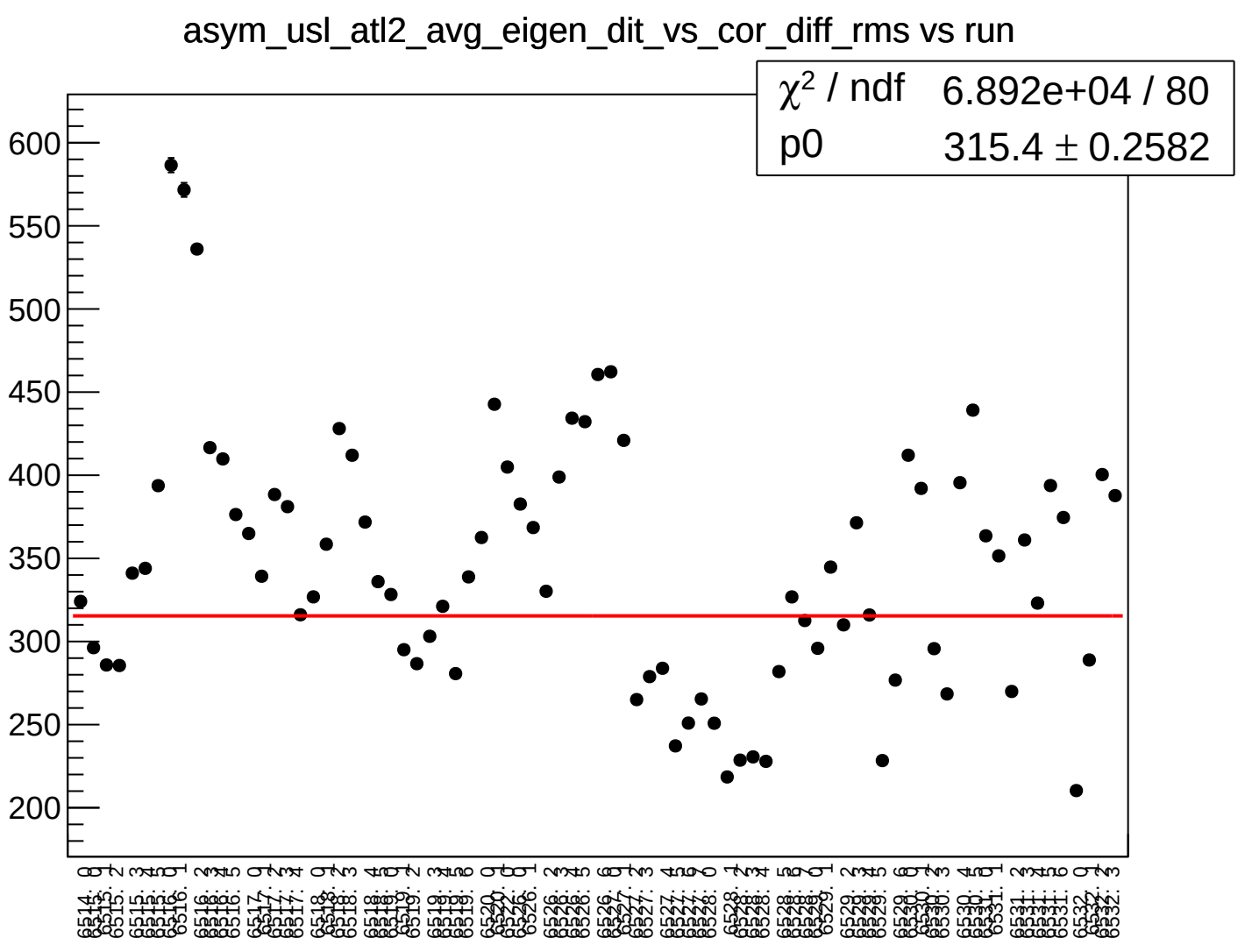

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 92.38 / 80
p0 3.325e−05 ± 2.33e−05
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 81
Mean −187.1
Std Dev 0
2
1
0
−1
−2

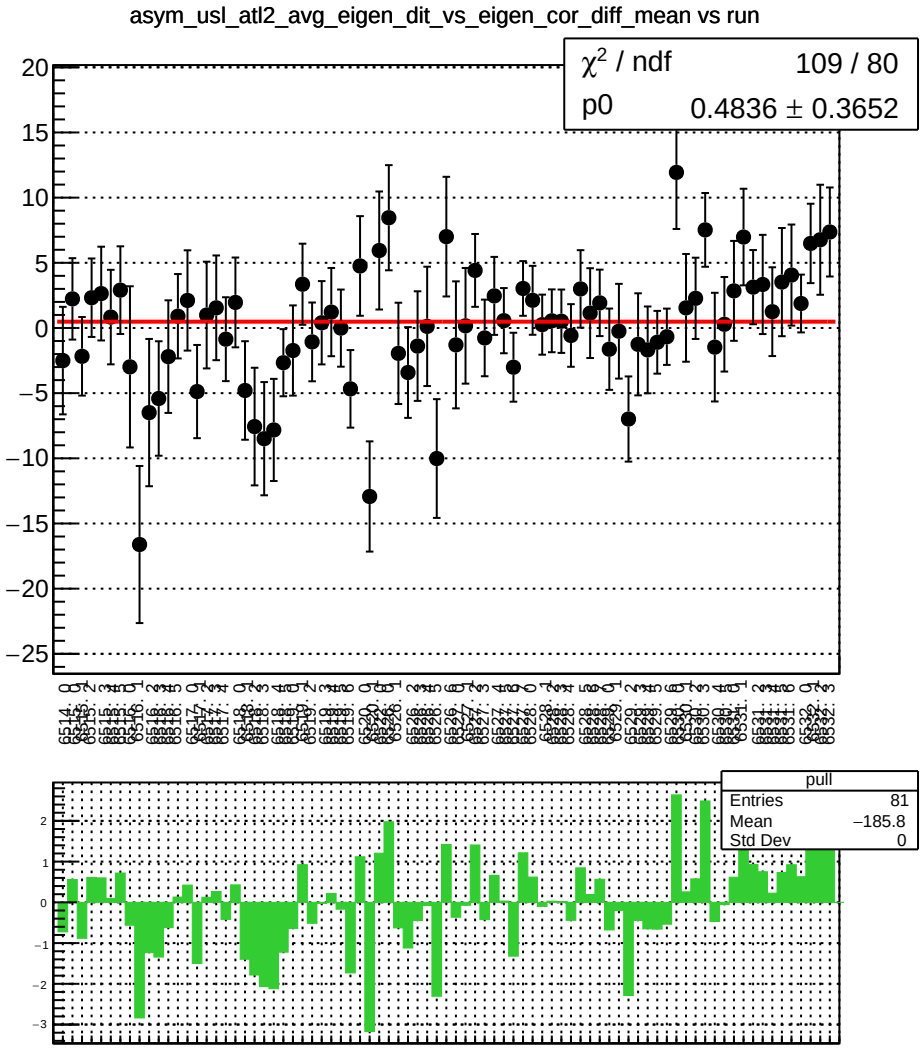

pull1D
Entries 81
Mean −0.01815
Std Dev 1.068
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

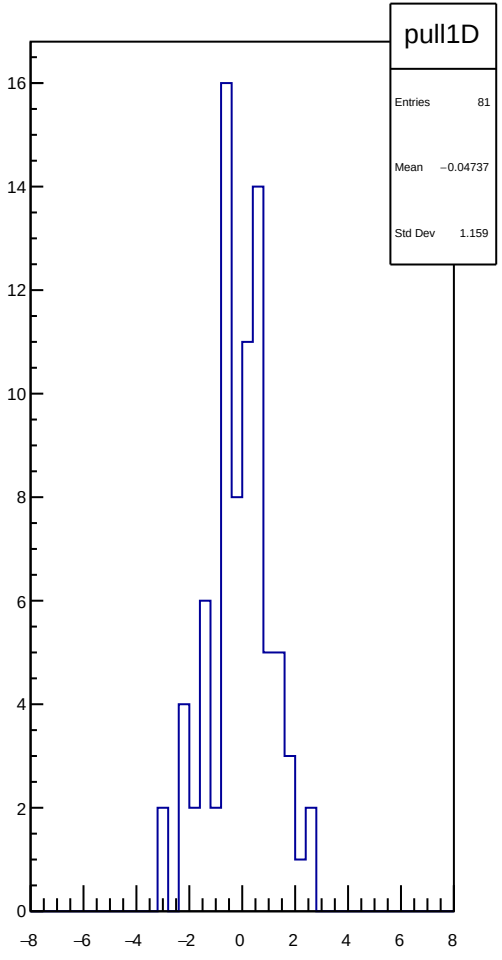

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.843e+04 / 80
p0 0.0204 ± 1.648e−05
0.026
0.024
0.022
0.02
0.018
0.016

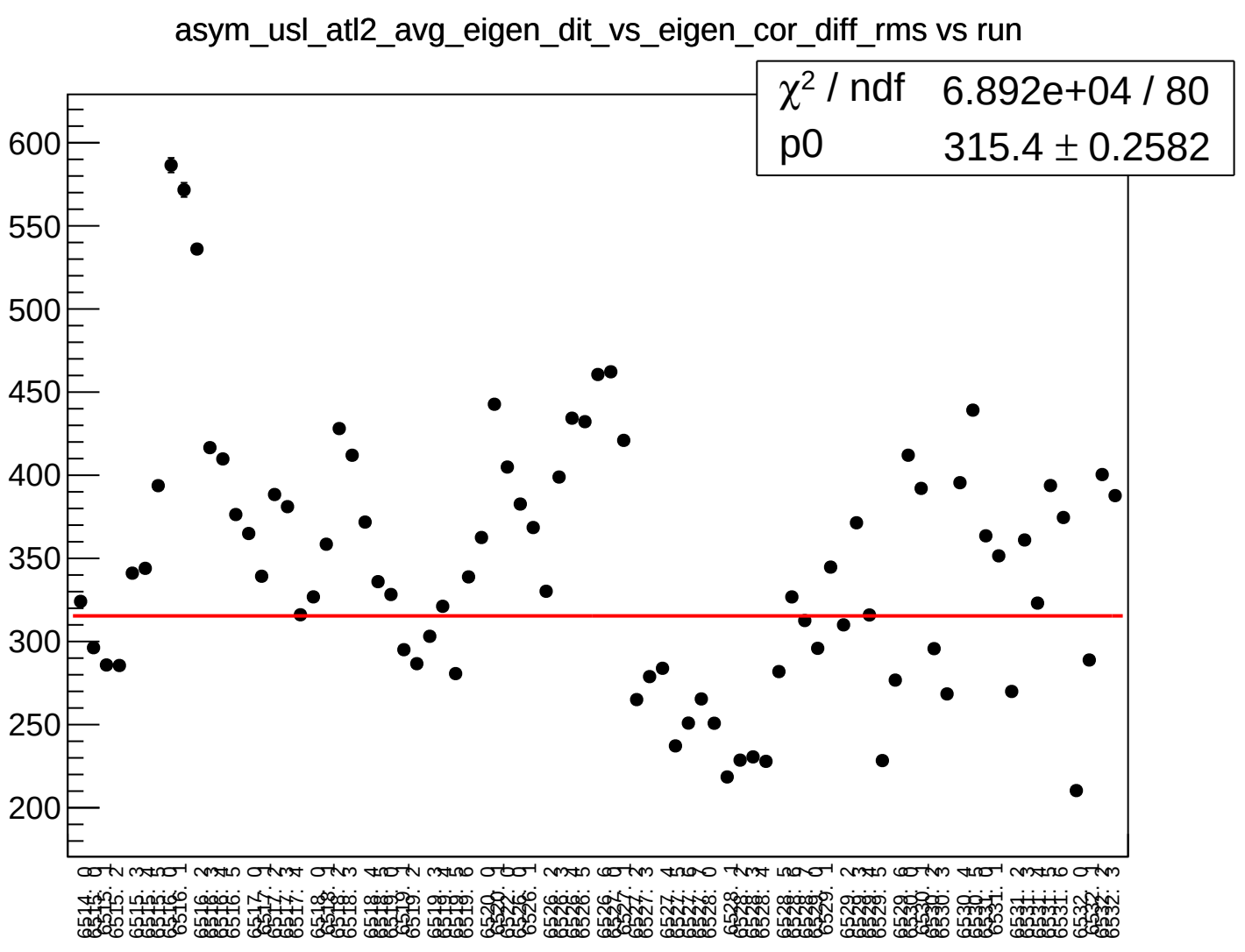

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 109 / 80
p0 0.4836 ± 0.3652
pull
Entries 81
Mean −185.8
Std Dev 0

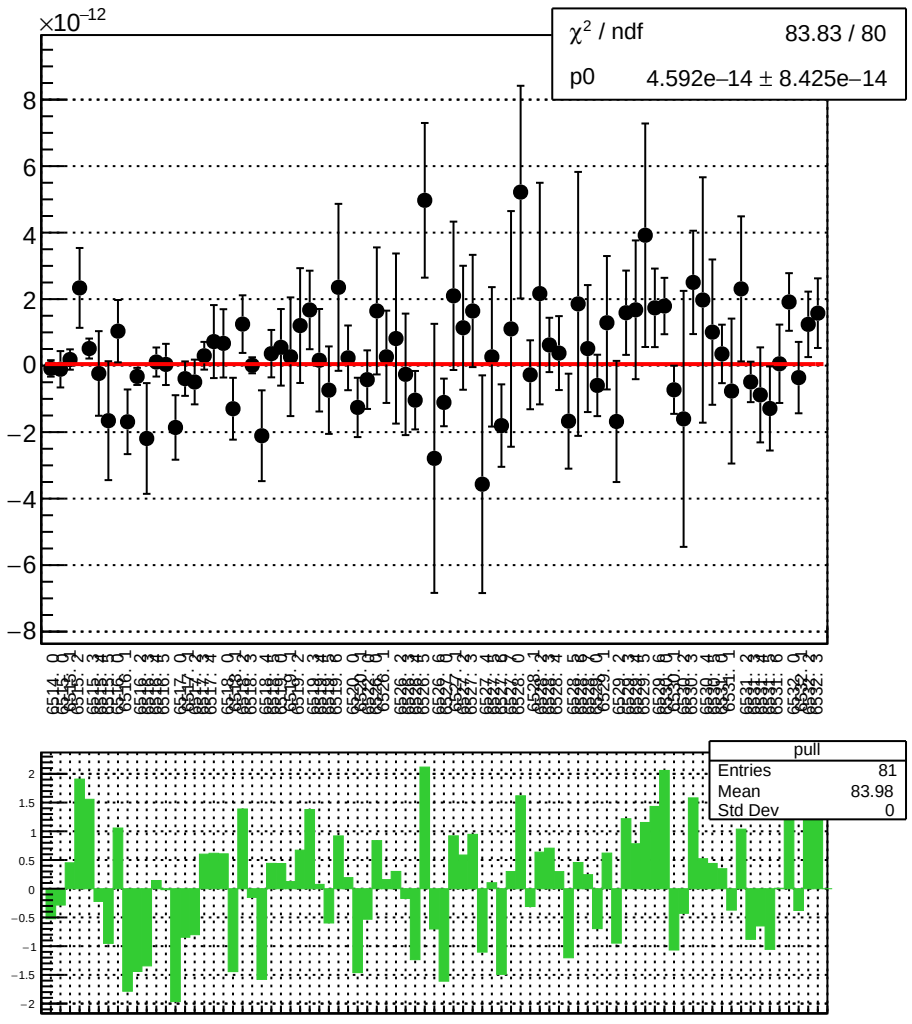

pull1D
Entries 81
Mean −0.04737
Std Dev 1.159

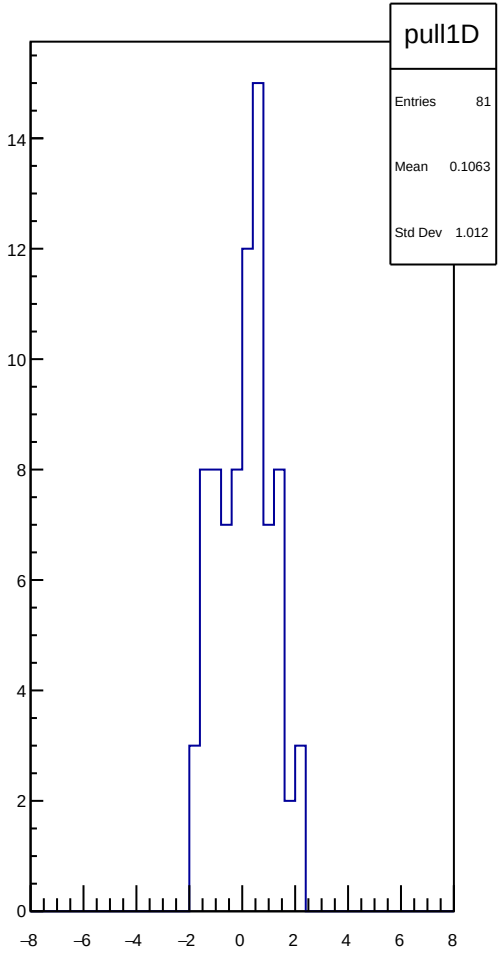

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.892e+04 / 80
p0 315.4 ± 0.2582
600
550
500
450
400
350
300
250
200

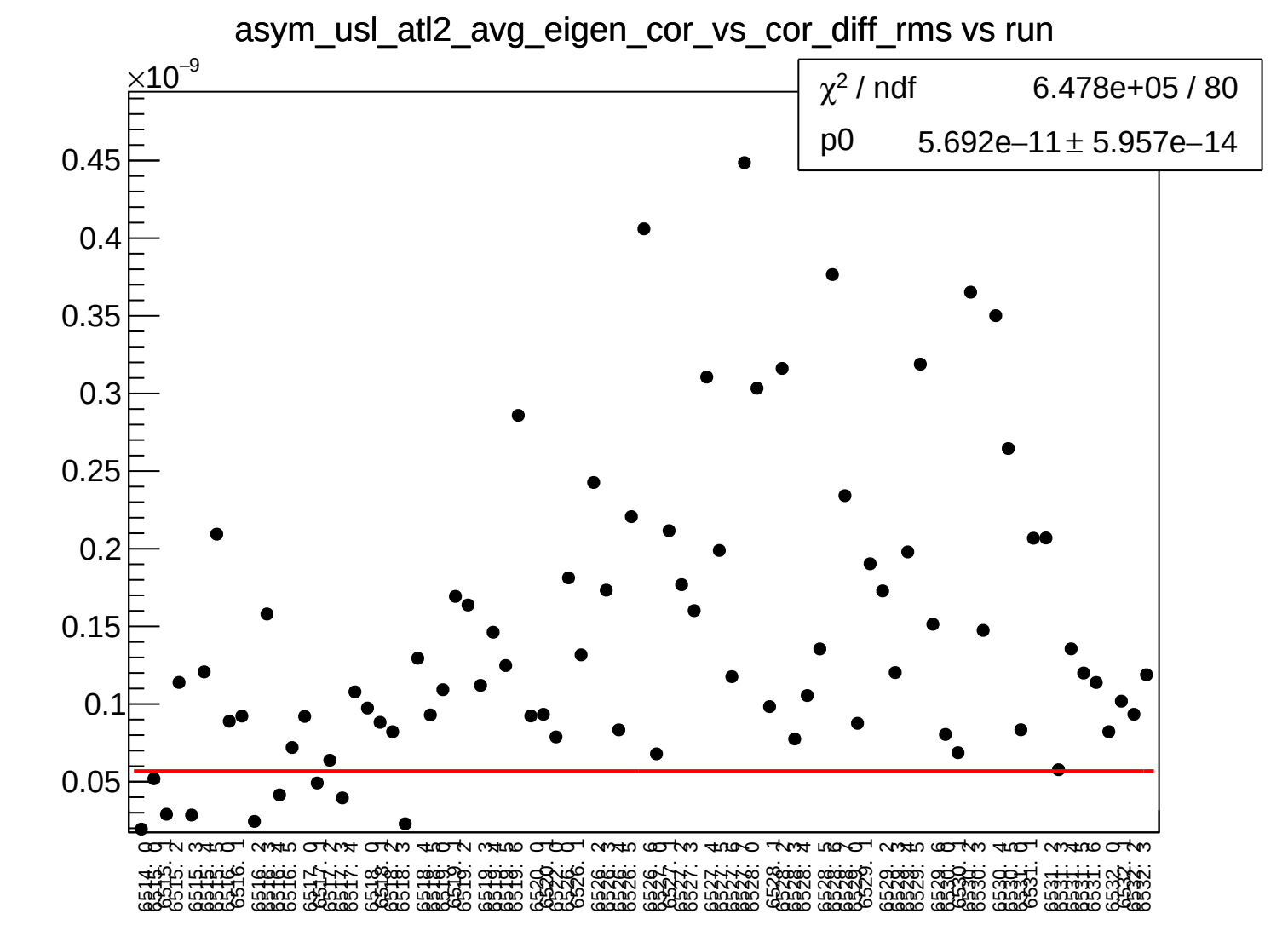

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109 / 80
p0 0.4836 ± 0.3652
pull
Entries 81
Mean −185.8
Std Dev 0

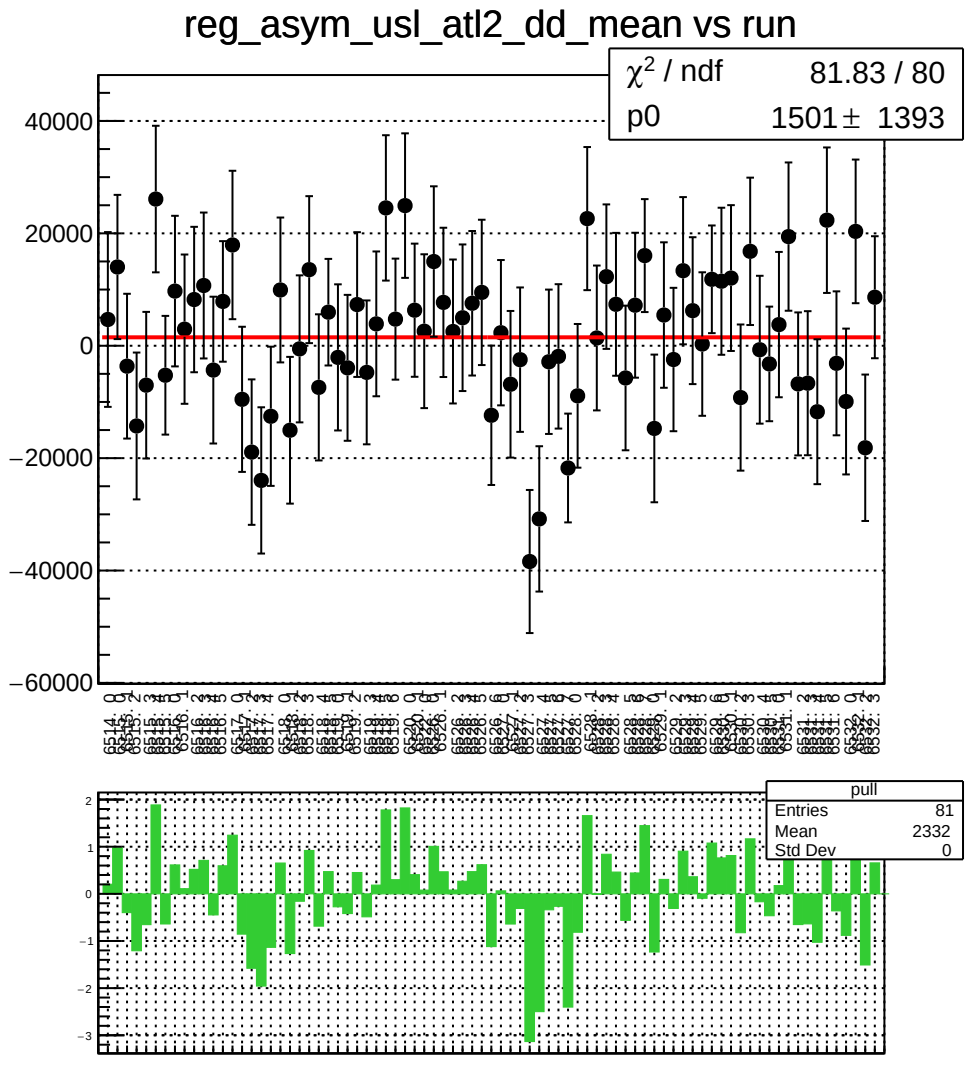

pull1D
Entries 81
Mean −0.04737
Std Dev 1.159

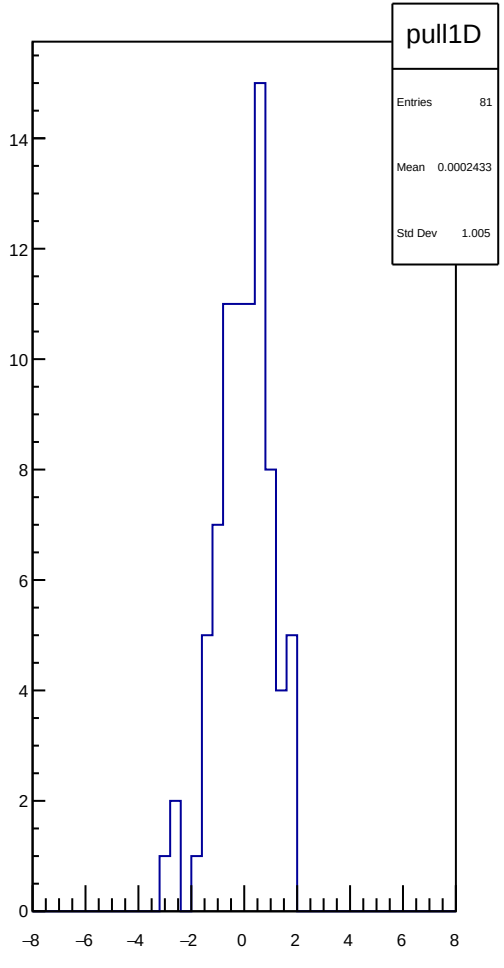

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.892e+04 / 80
p0 315.4 ± 0.2582
600
550
500
450
400
350
300
250
200

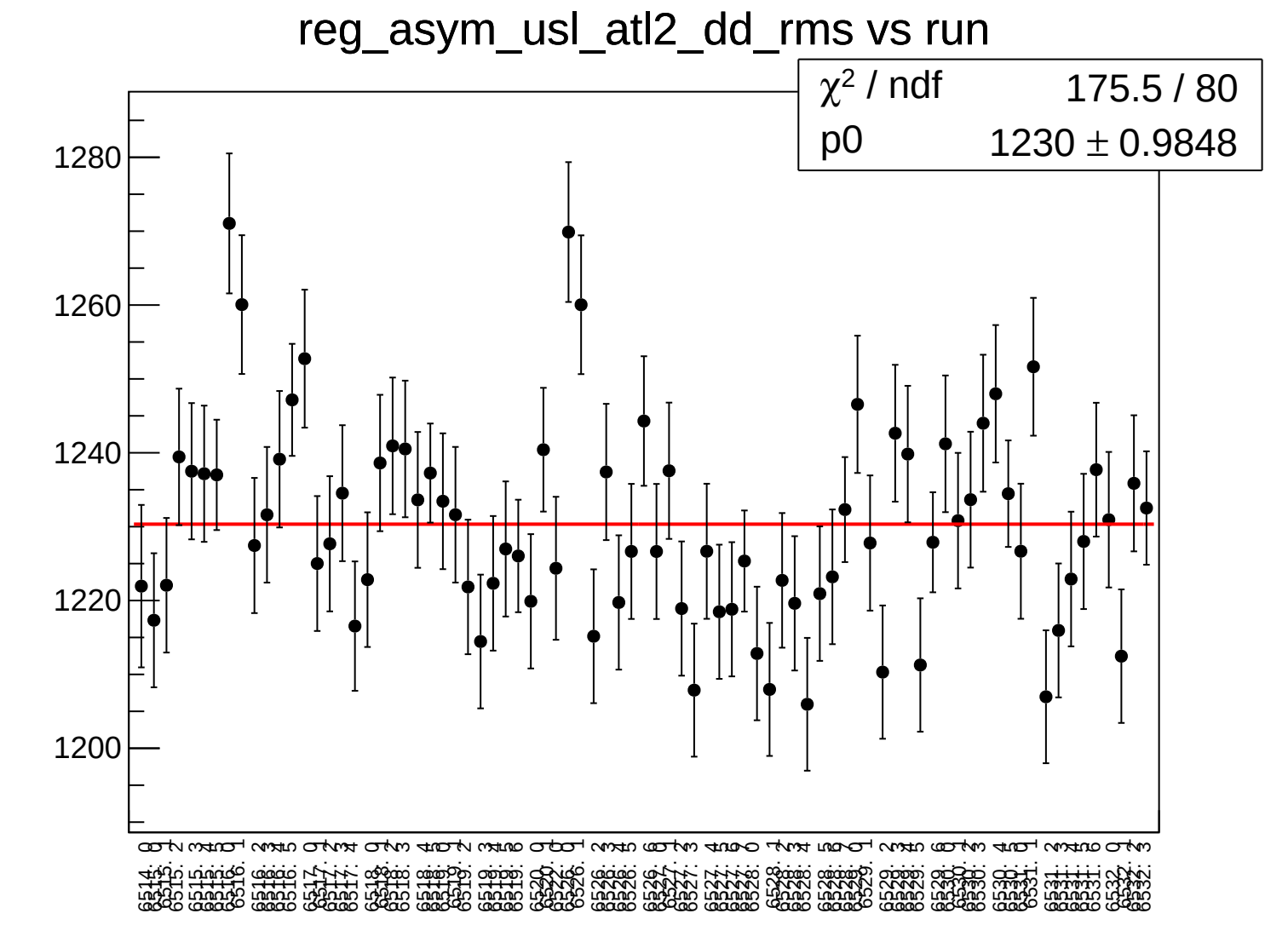

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.83 / 80
p0 4.592e−14 ± 8.425e−14
pull
Entries 81
Mean 83.98
Std Dev 0

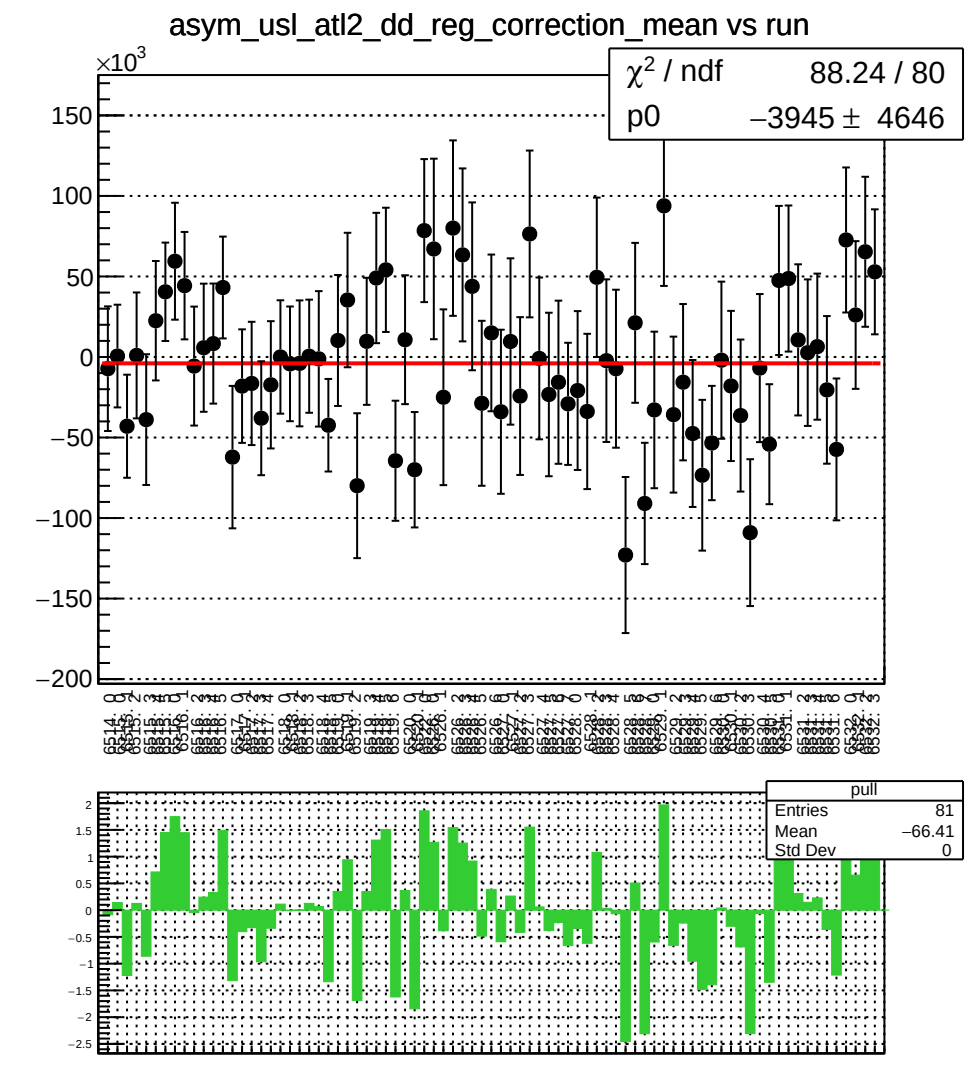

pull1D
Entries 81
Mean 0.1063
Std Dev 1.012

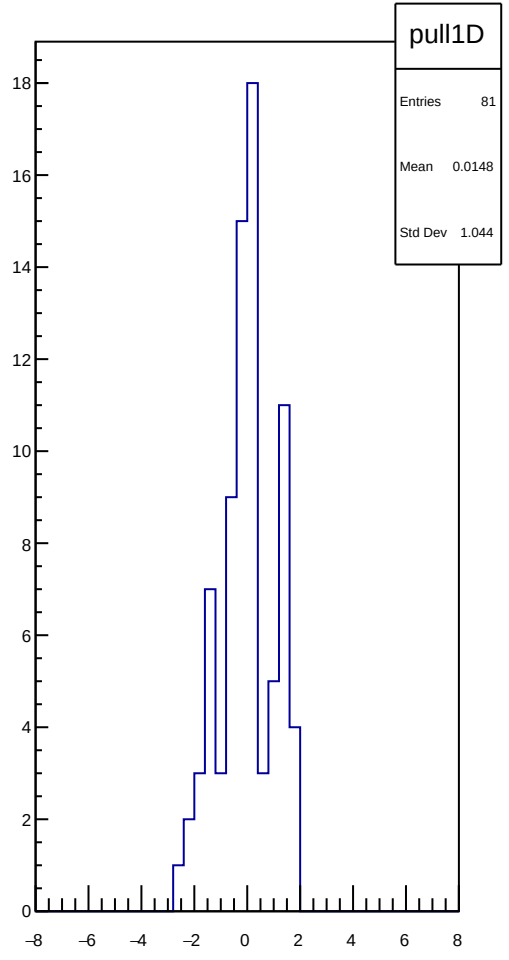

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.478e+05 / 80
p0 5.692e−11 ± 5.957e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

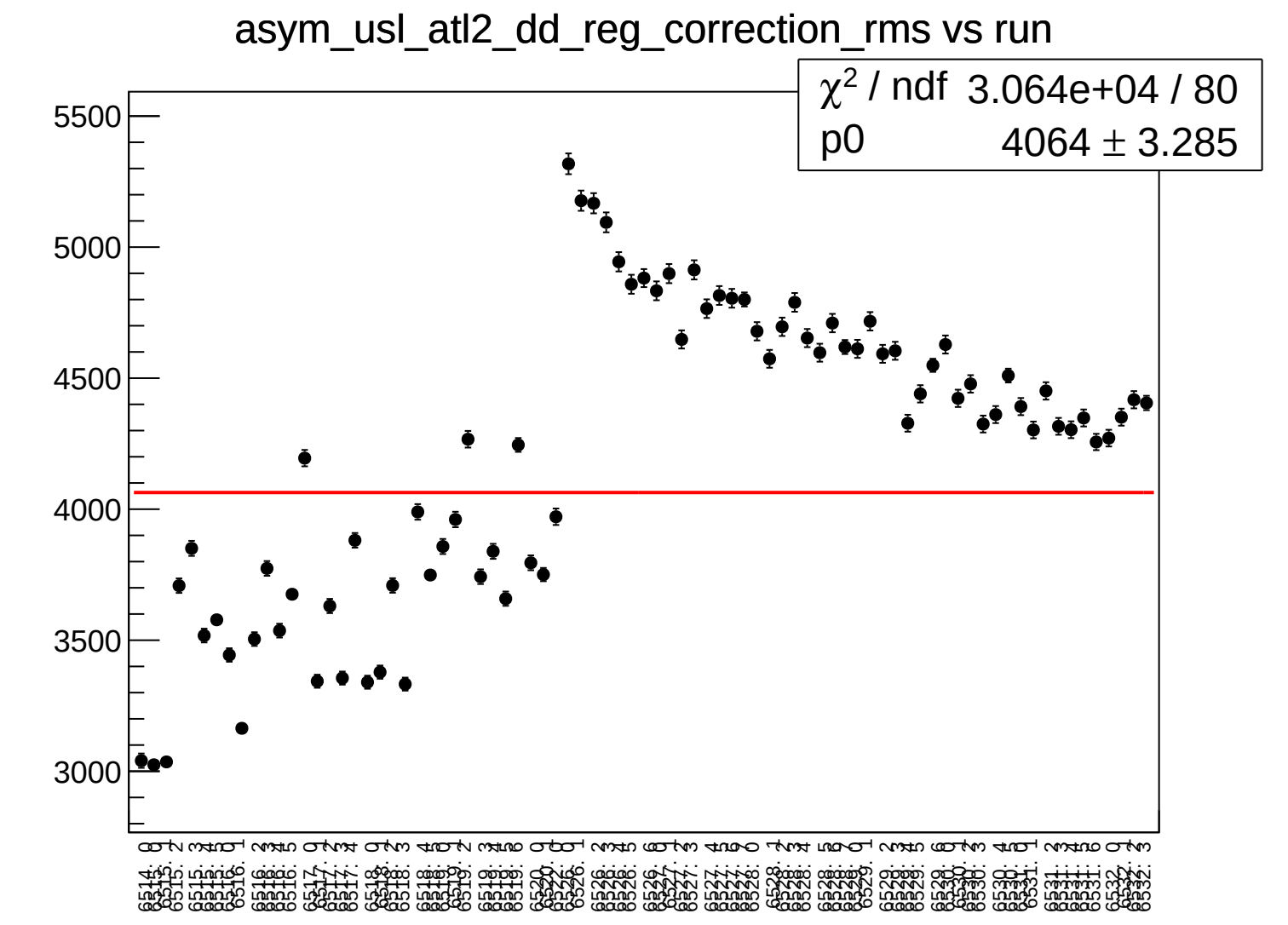

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 81.83 / 80
p0 1501 ± 1393
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean 2332
Std Dev 0
2
1
0
−1
−2
−3

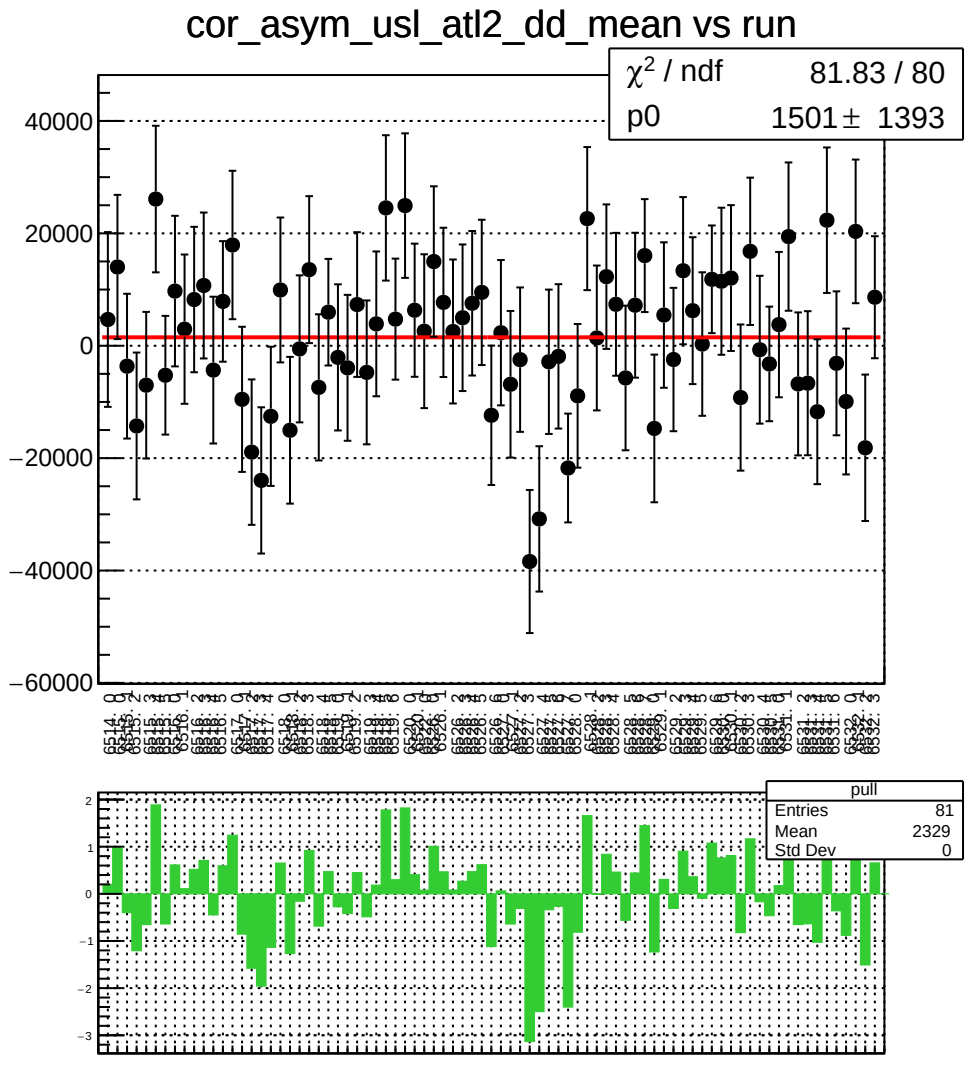

pull1D
Entries 81
Mean 0.0002433
Std Dev 1.005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

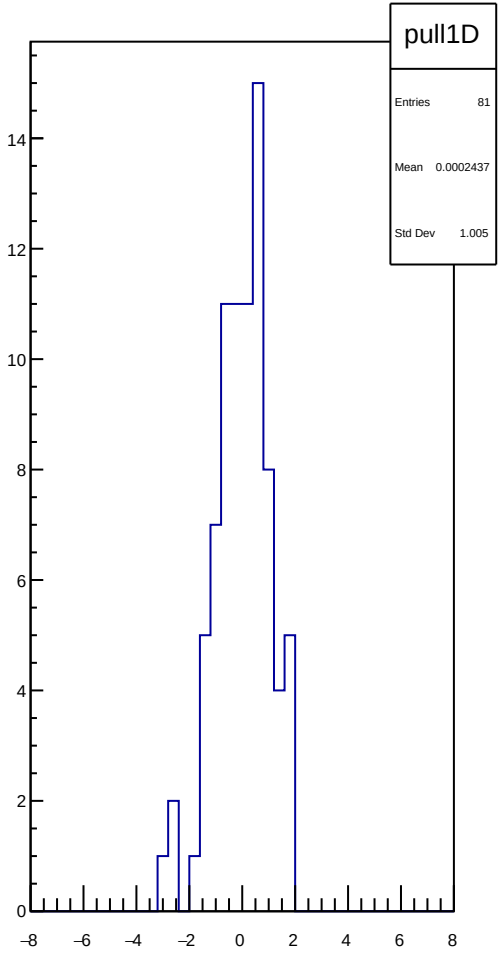

reg_asym_usl_atl2_dd_rms vs run
χ^2 / ndf 175.5 / 80
p0 1230 ± 0.9848
1280
1260
1240
1220
1200

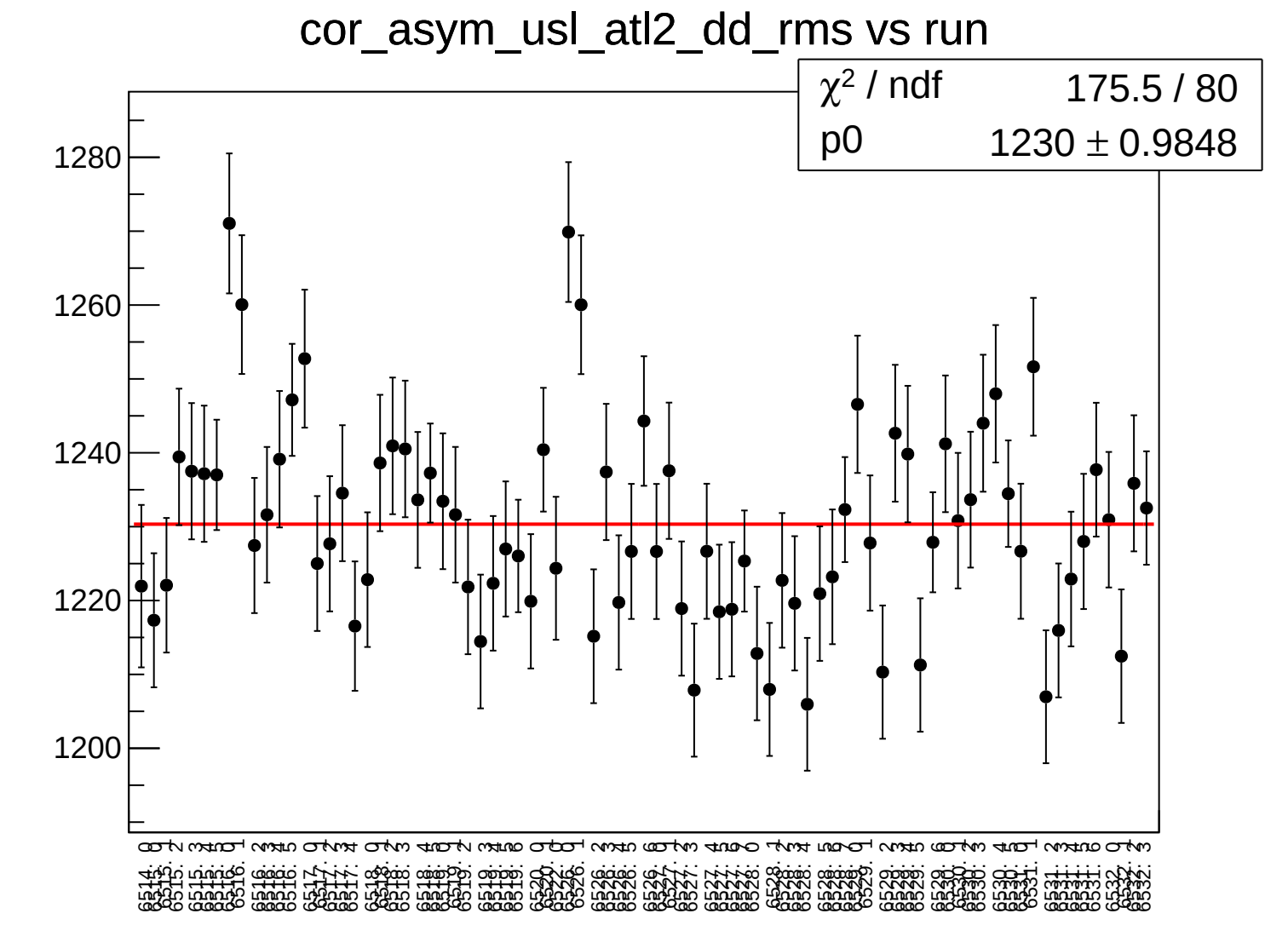

asym_usl_atl2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 88.24 / 80
p0 −3945 ± 4646
150
100
50
0
−50
−100
−150
−200
pull
Entries 81
Mean −66.41
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

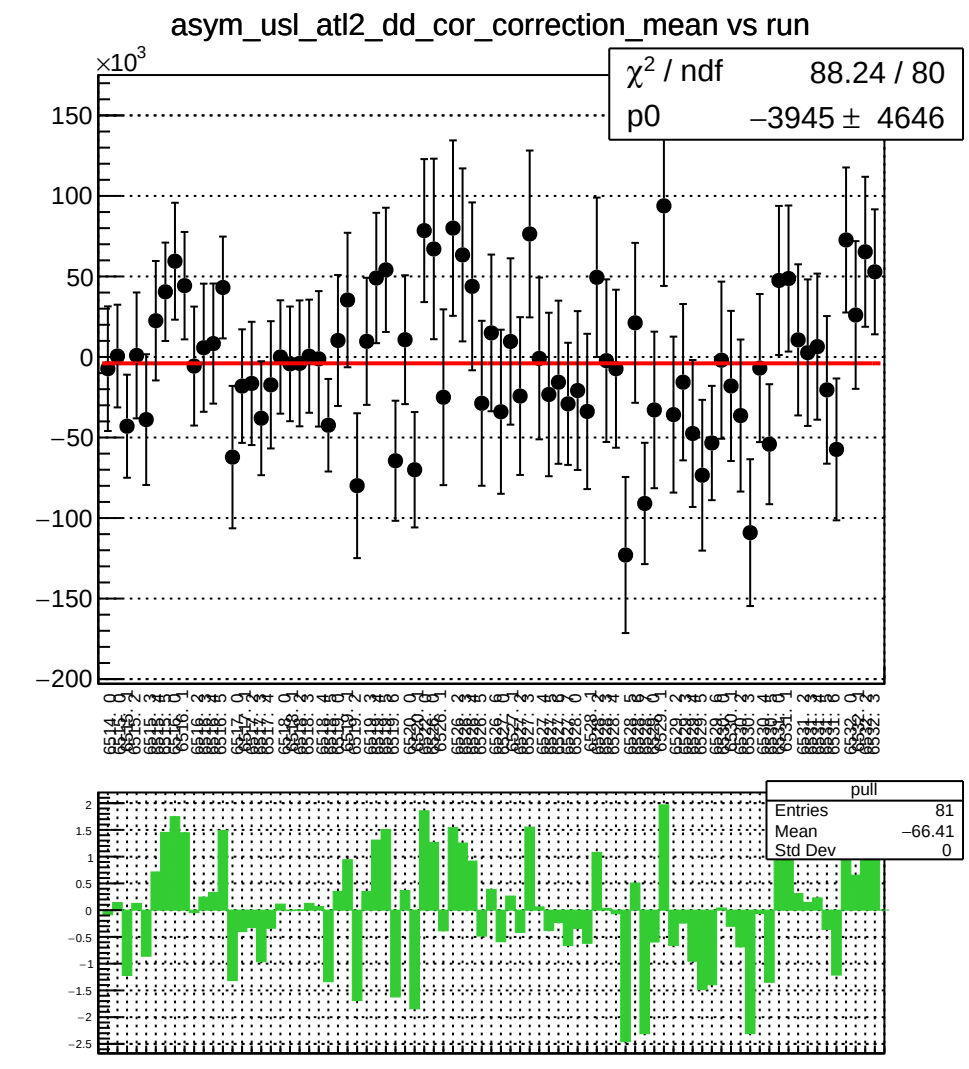

pull1D
Entries 81
Mean 0.0148
Std Dev 1.044
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

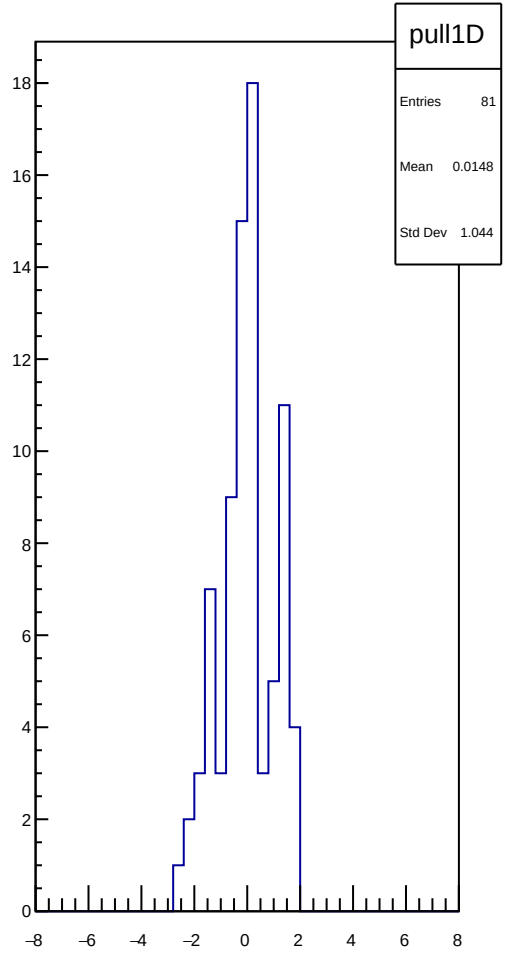

asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 3.064e+04 / 80
p0 4064 ± 3.285
5500
5000
4500
4000
3500
3000

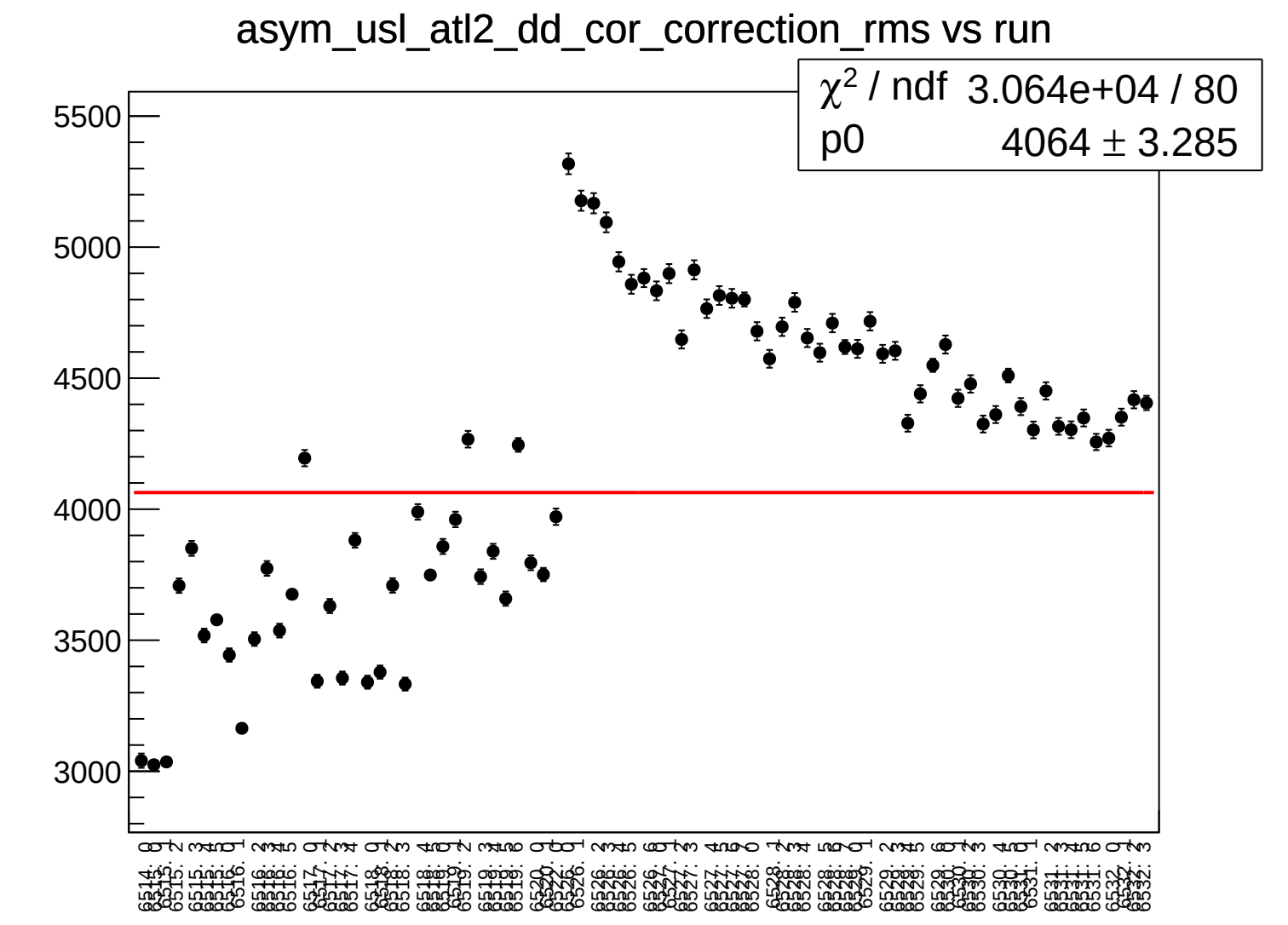

cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 81.83 / 80
p0 1501 ± 1393
pull
Entries 81
Mean 2329
Std Dev 0

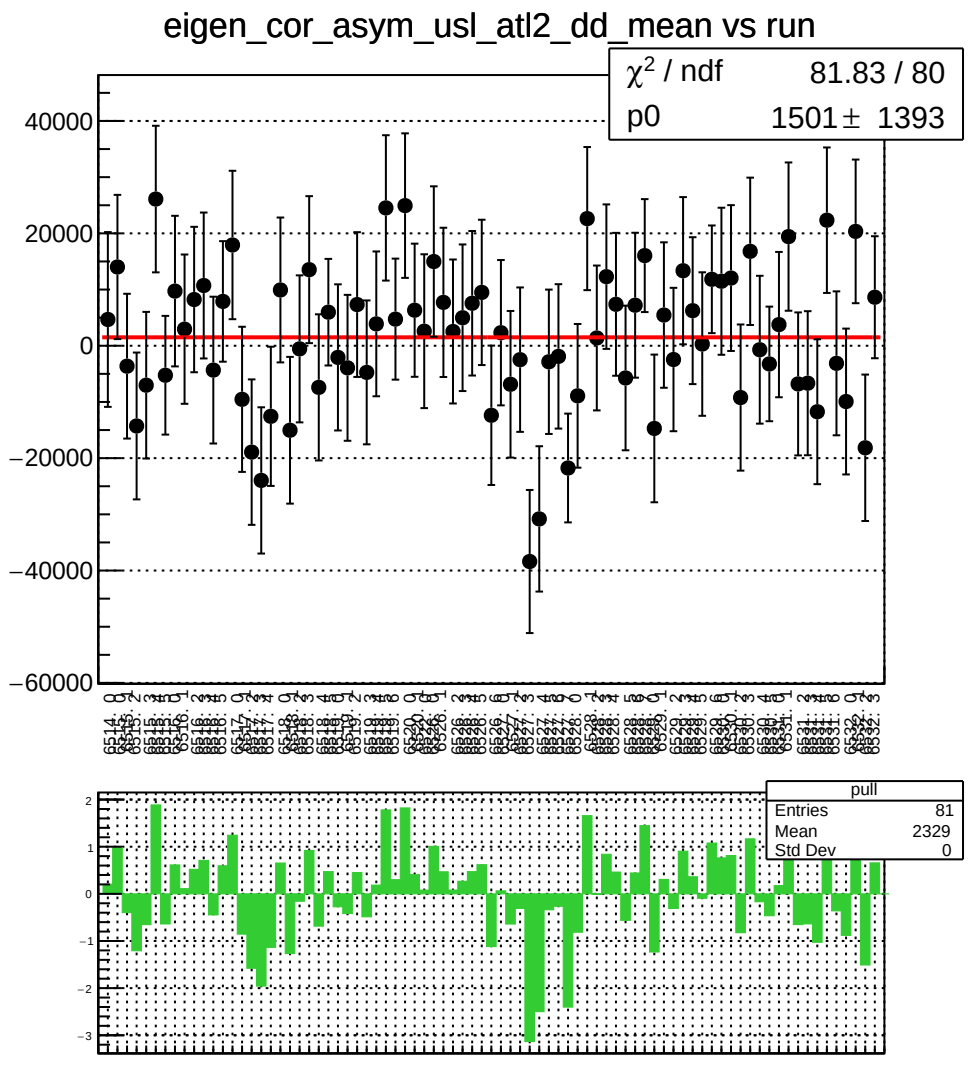

pull1D
Entries 81
Mean 0.0002437
Std Dev 1.005

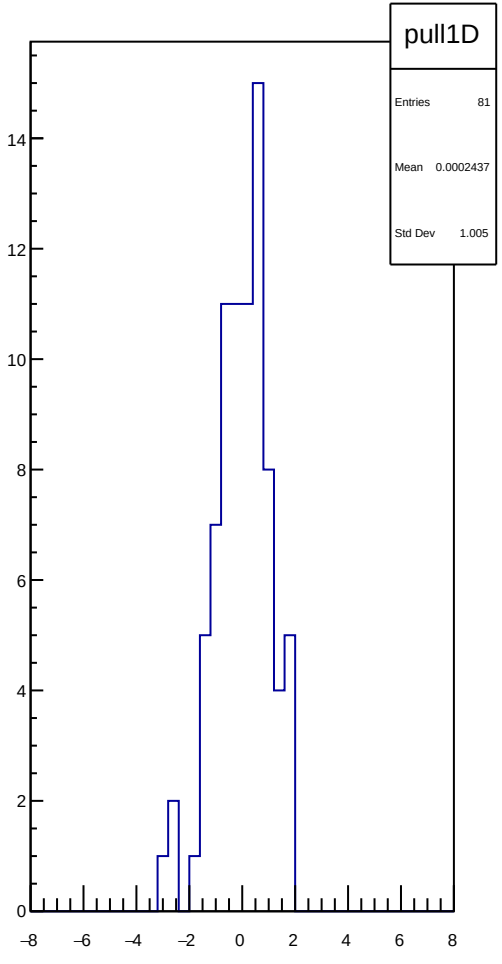

cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 175.5 / 80
p0 1230 ± 0.9848
1280
1260
1240
1220
1200

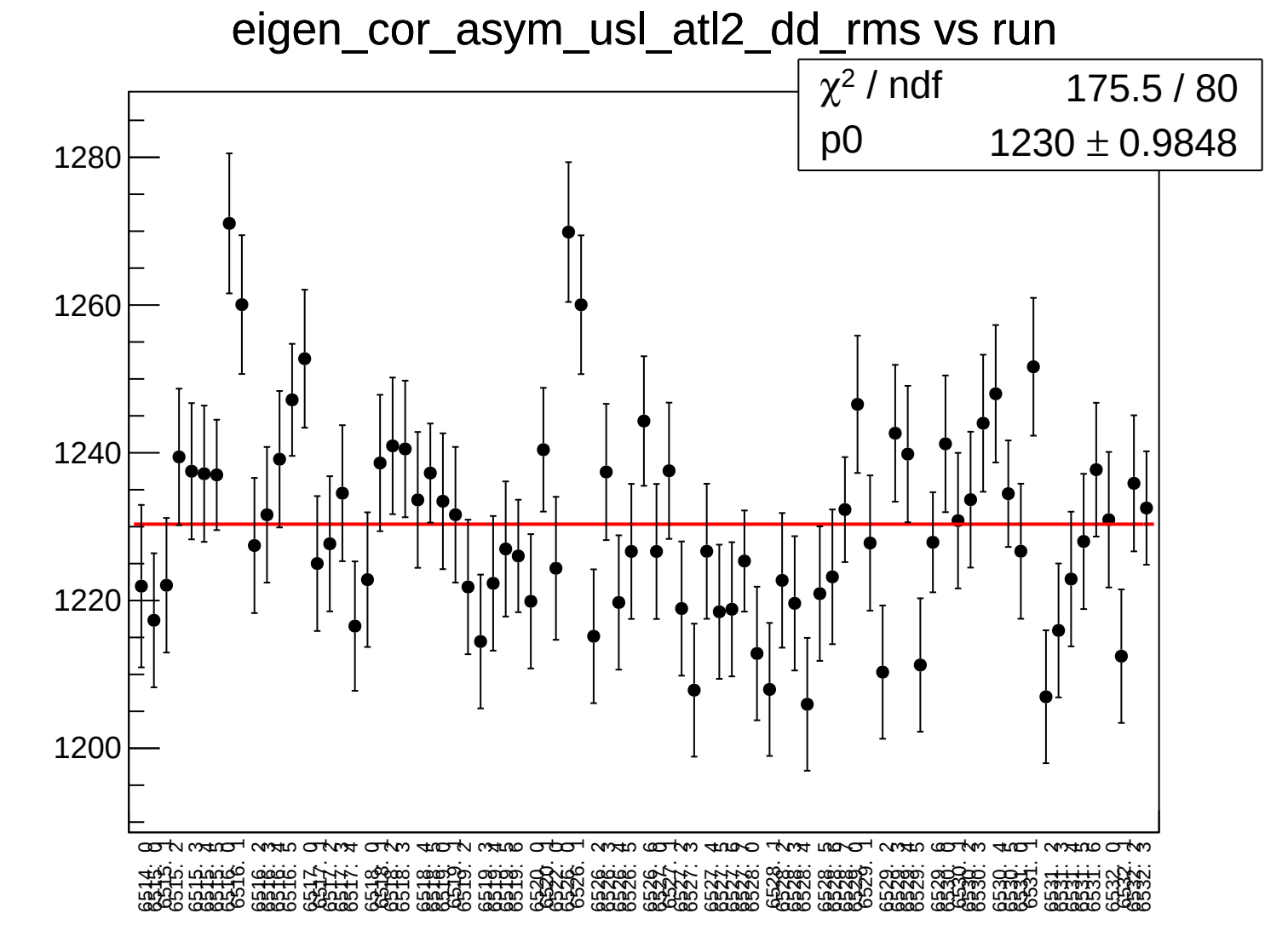

asym_usl_atl2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 88.24 / 80
p0 −3945 ± 4646
150
100
50
0
−50
−100
−150
−200
pull
Entries 81
Mean −66.41
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

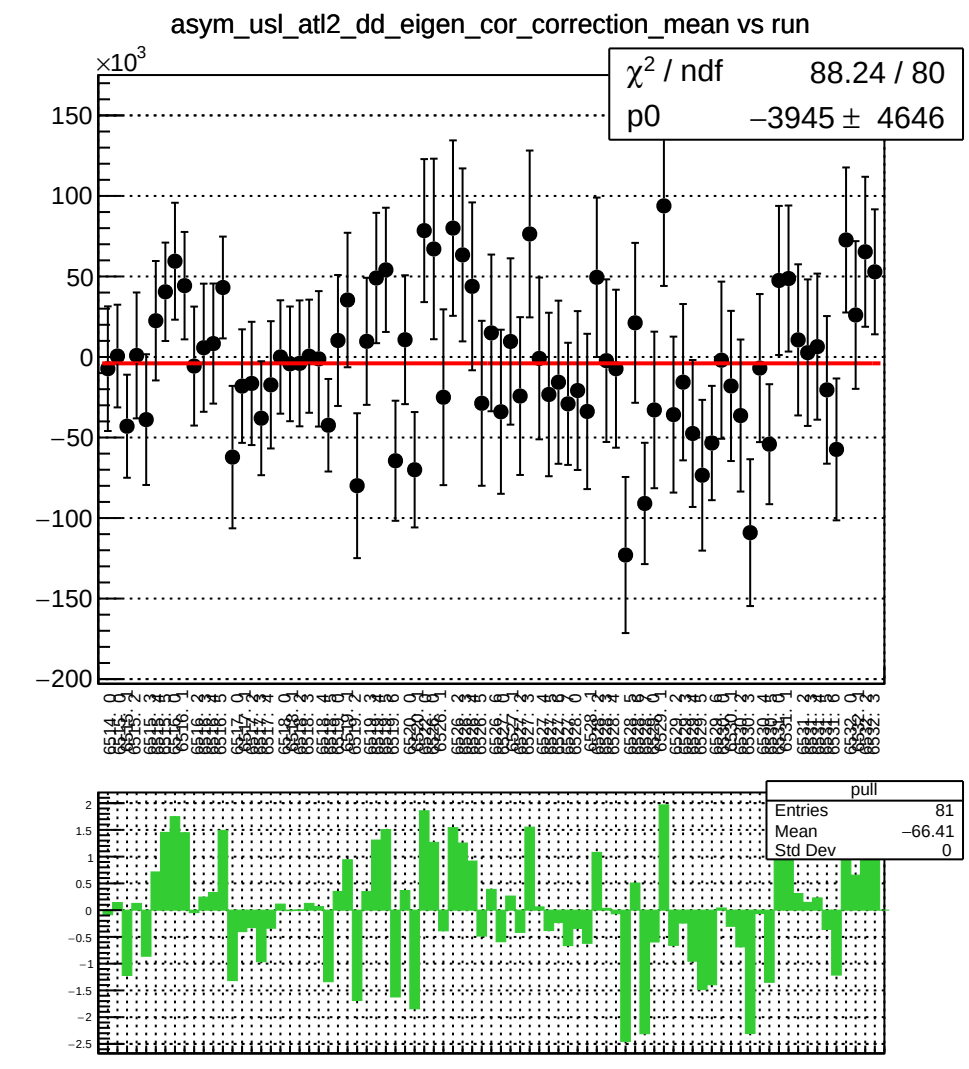

pull1D
Entries 81
Mean 0.0148
Std Dev 1.044
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

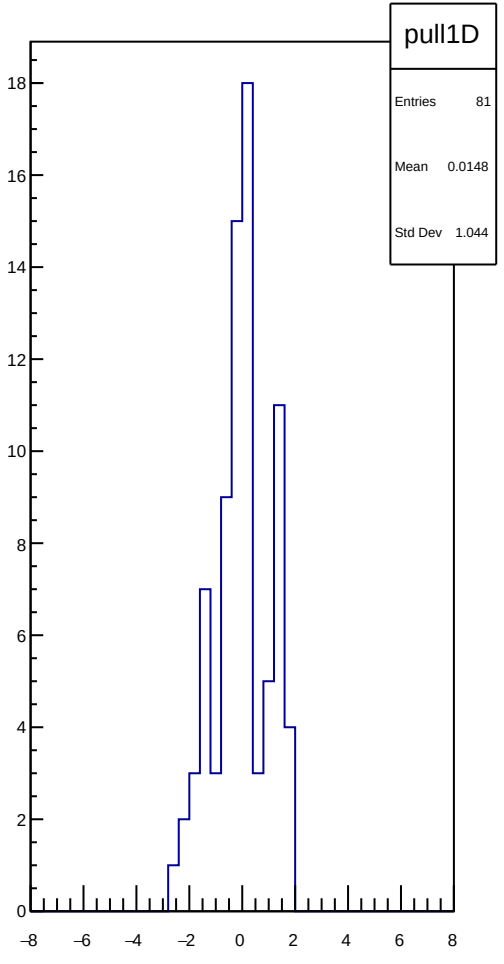

asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 3.064e+04 / 80
p0 4064 ± 3.285
5500
5000
4500
4000
3500
3000

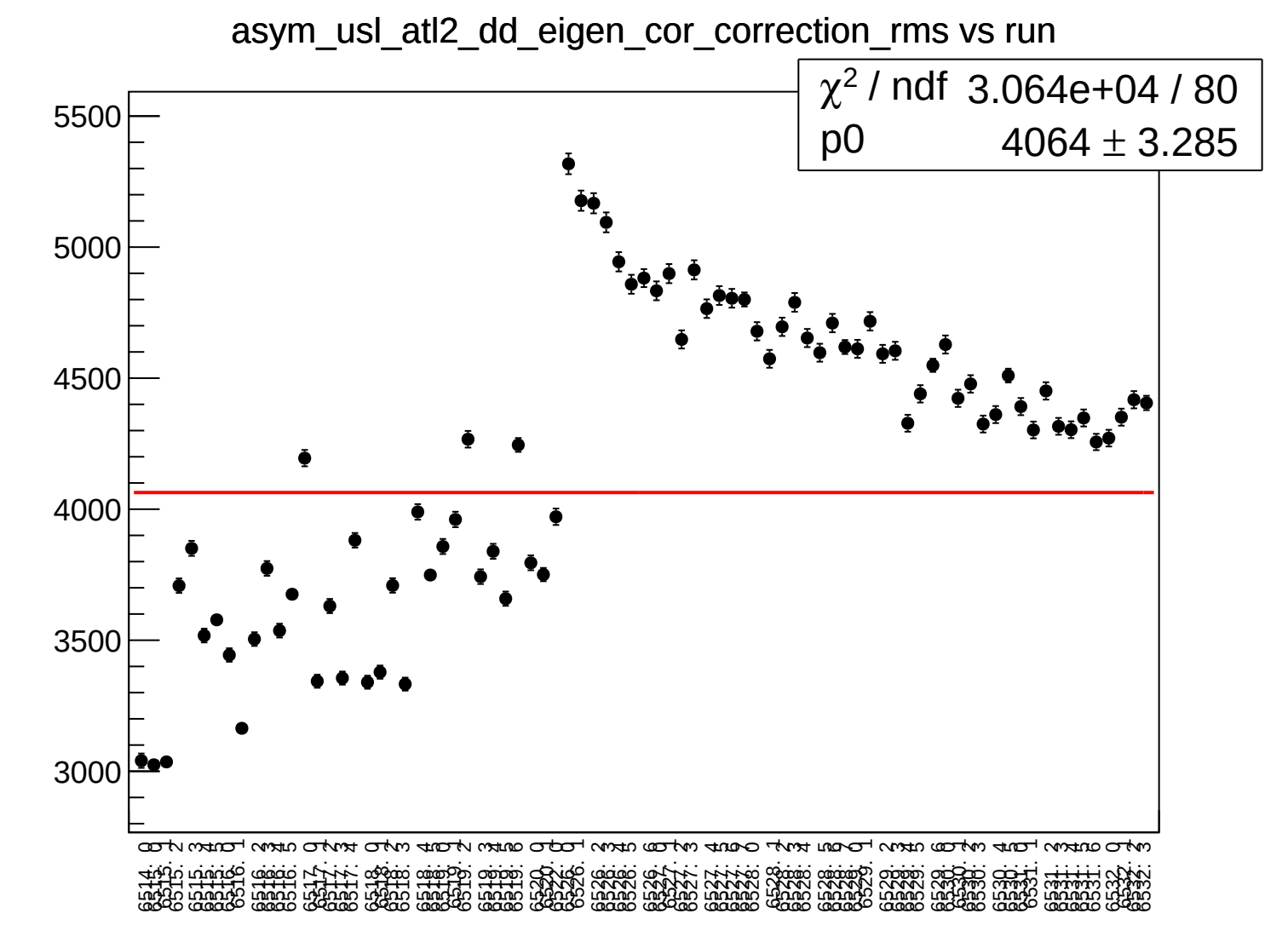

eigen_cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 81.83 / 80
p0 1501 ± 1393
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean 2329
Std Dev 0
2
1
0
−1
−2
−3

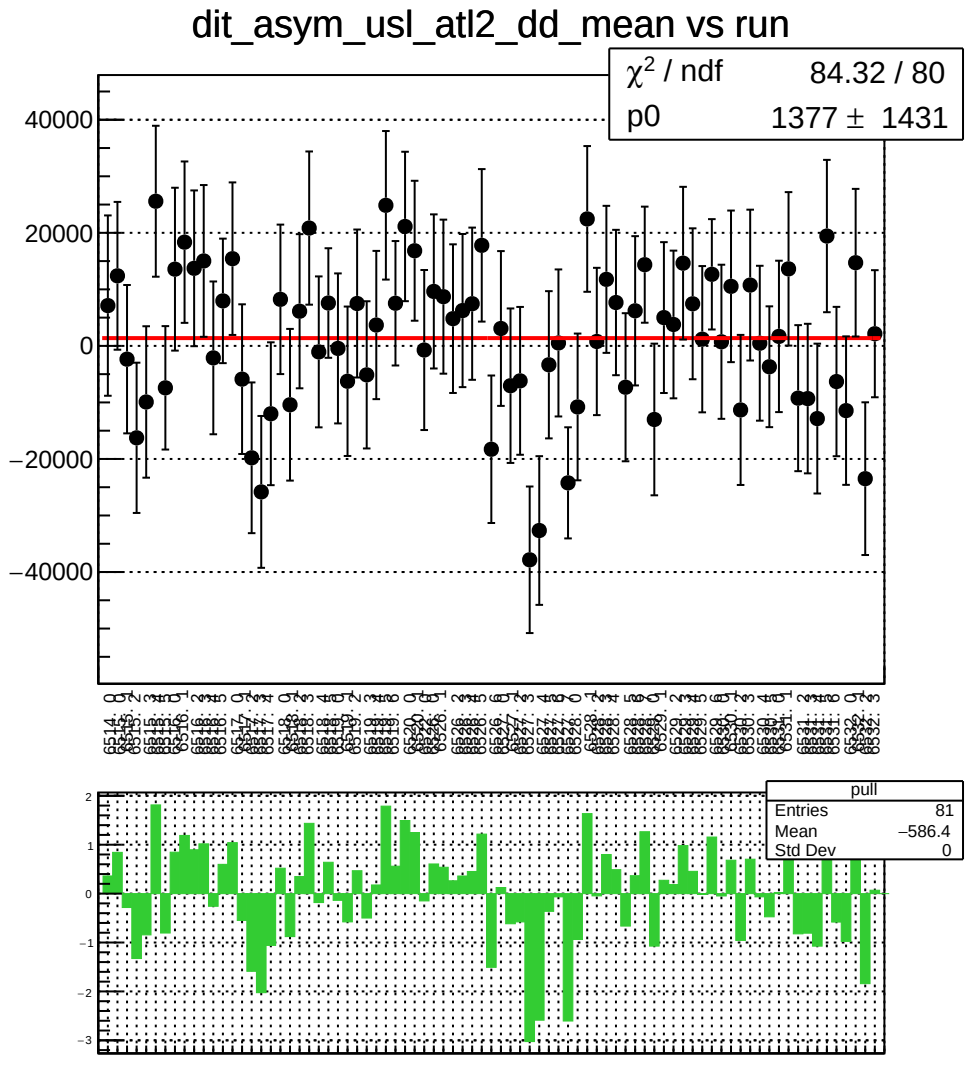

pull1D
Entries 81
Mean 0.0002437
Std Dev 1.005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

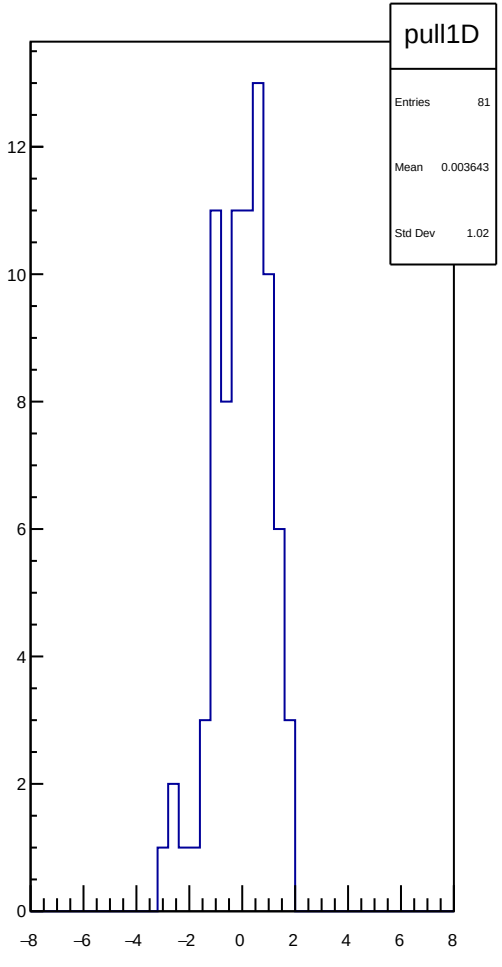

eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 175.5 / 80
p0 1230 ± 0.9848
1280
1260
1240
1220
1200

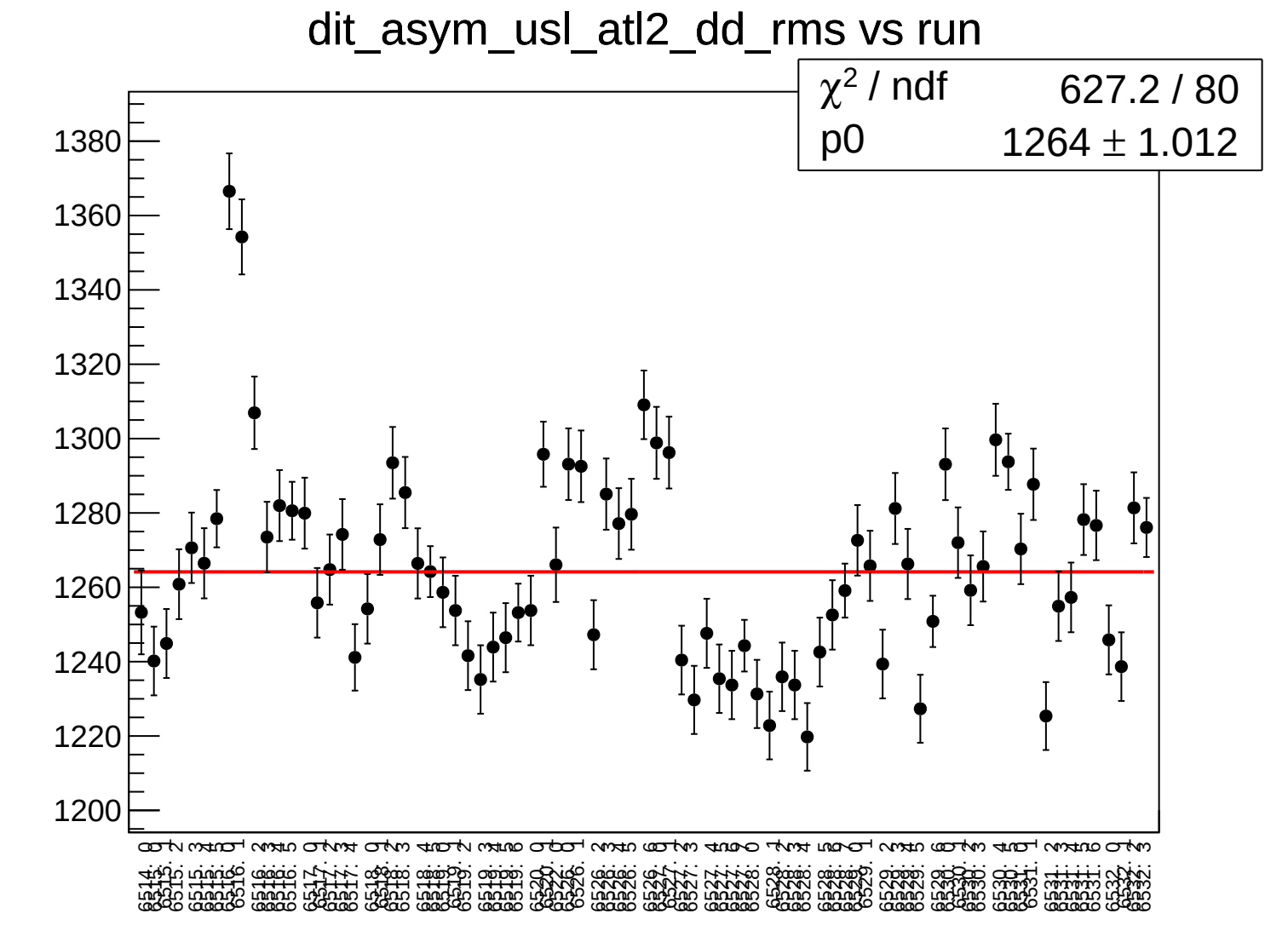

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 88.24 / 80
p0 −3945 ± 4646
pull
Entries 81
Mean −66.41
Std Dev 0

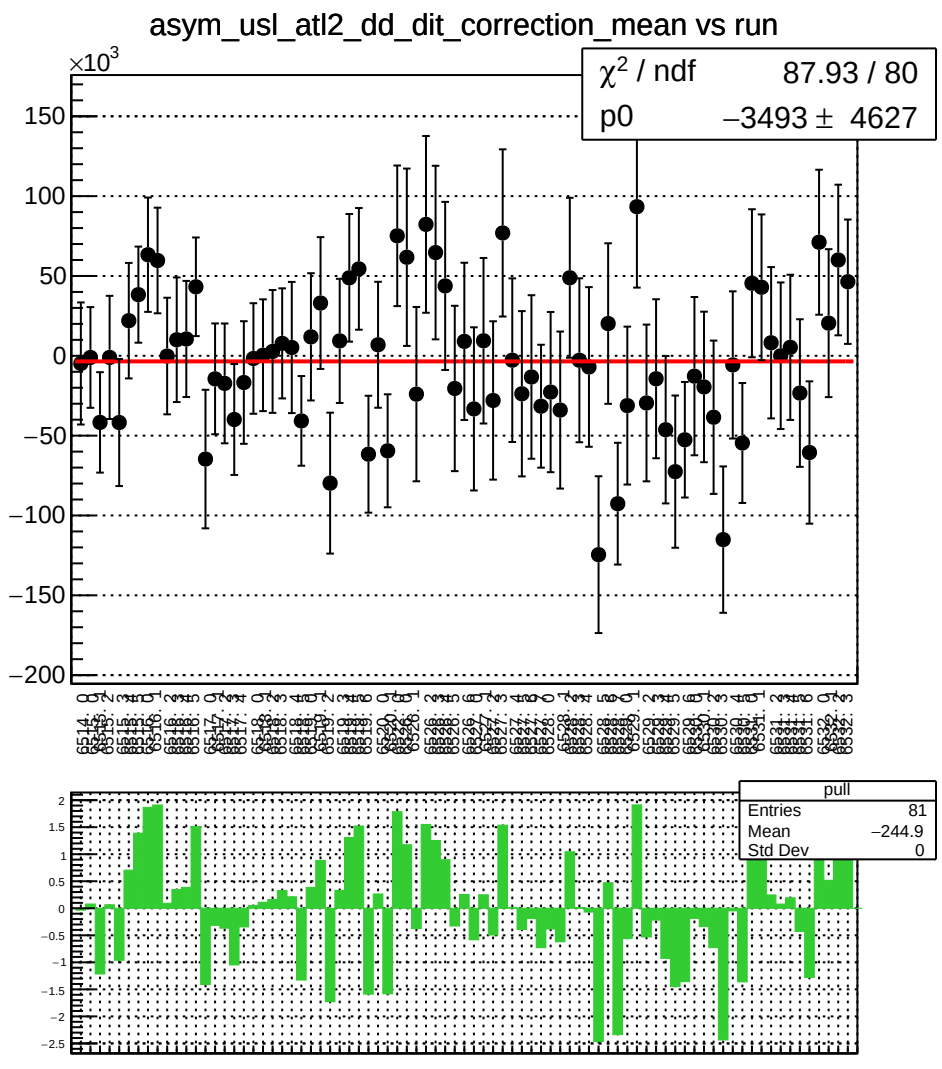

pull1D
Entries 81
Mean 0.0148
Std Dev 1.044

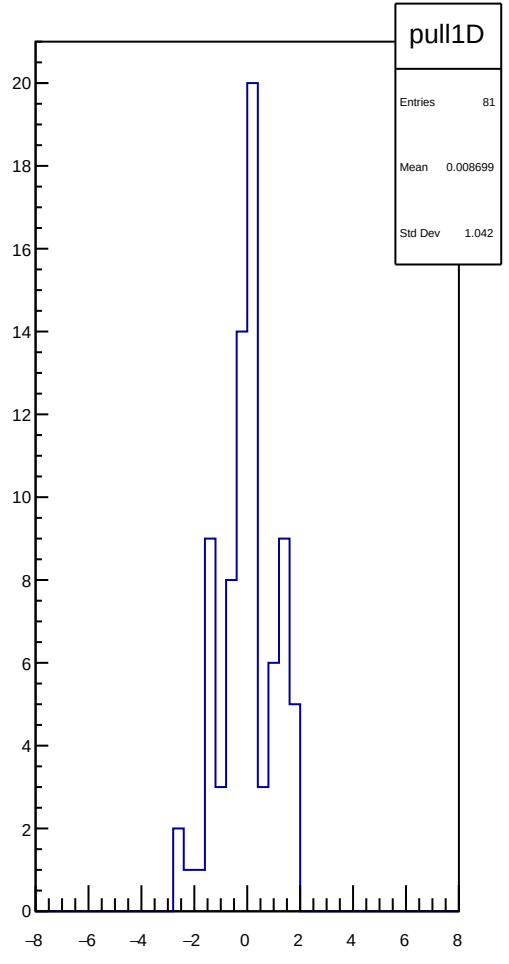

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.064e+04 / 80
p0 4064 ± 3.285
5500
5000
4500
4000
3500
3000

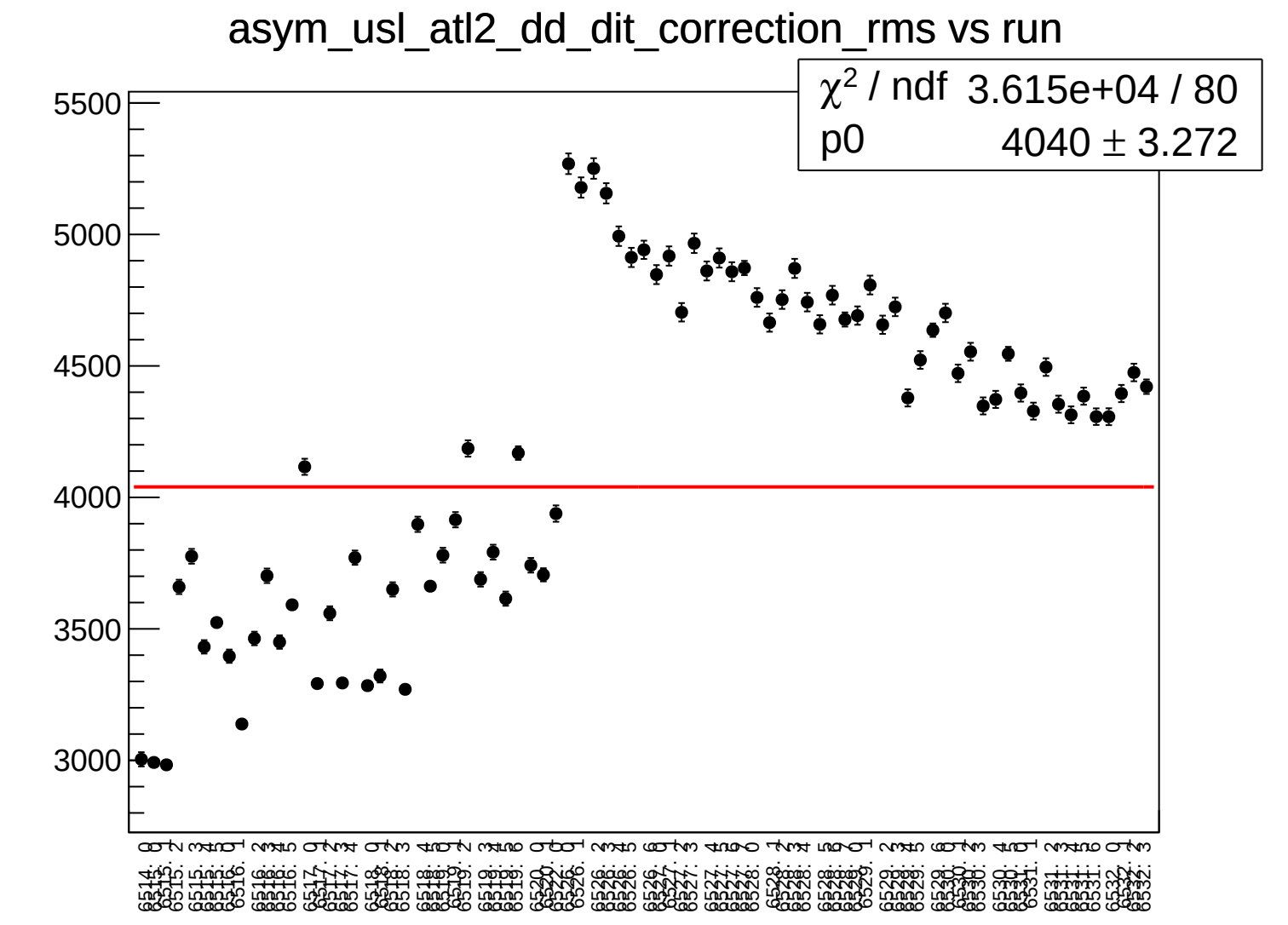

dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 84.32 / 80
p0 1377 ± 1431
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −586.4
Std Dev 0
2
1
0
−1
−2
−3

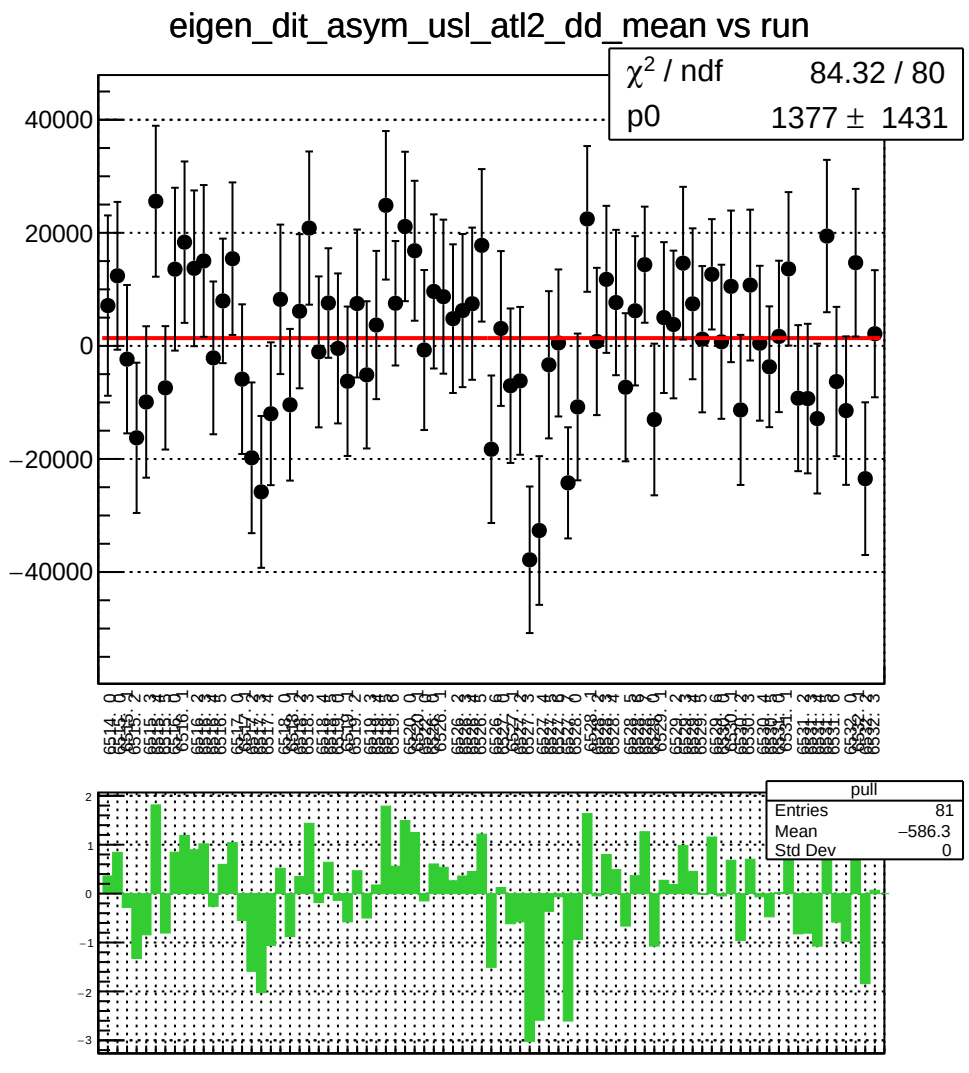

pull1D
Entries 81
Mean 0.003643
Std Dev 1.02
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

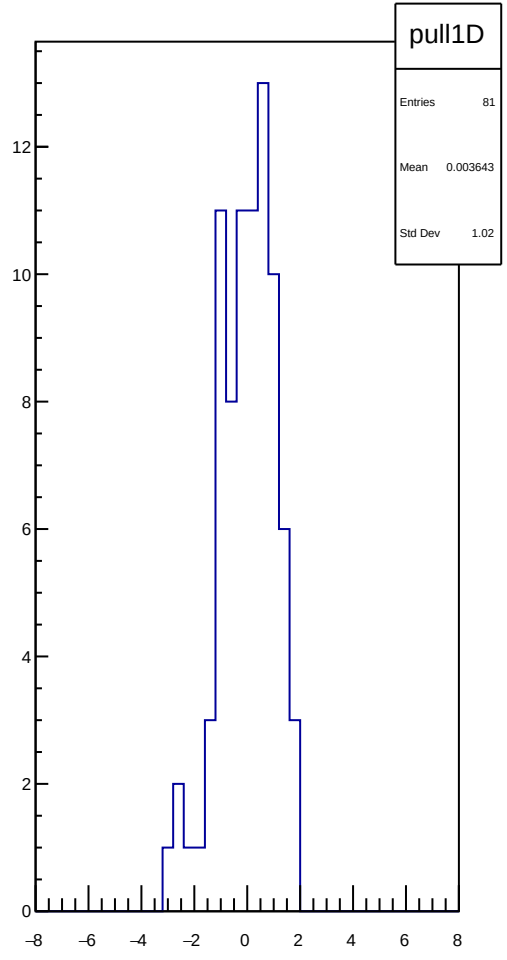

dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 627.2 / 80
p0 1264 ± 1.012
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200

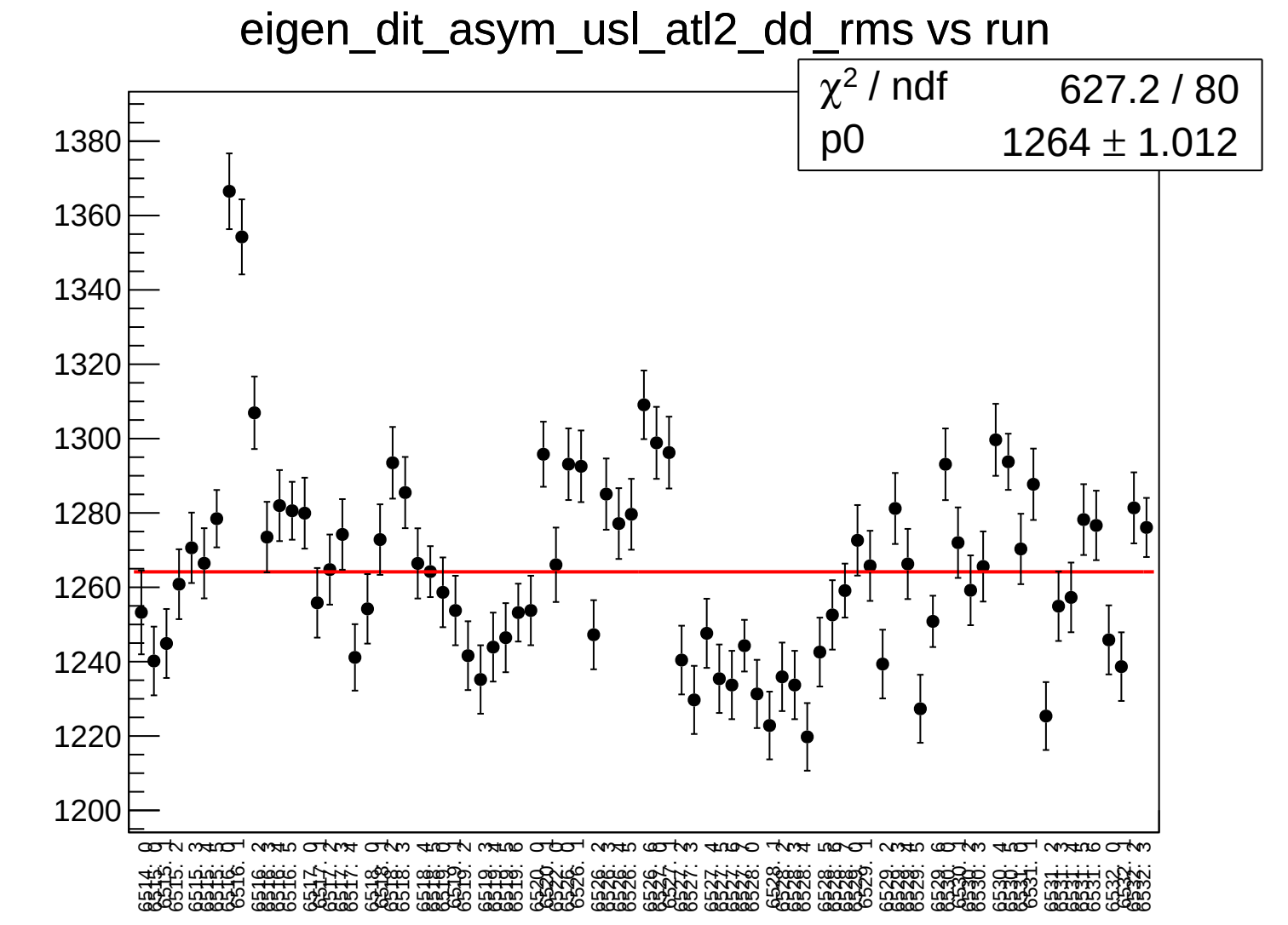

asym_usl_atl2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 87.93 / 80
p0 −3493 ± 4627
150
100
50
0
−50
−100
−150
−200
pull
Entries 81
Mean −244.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

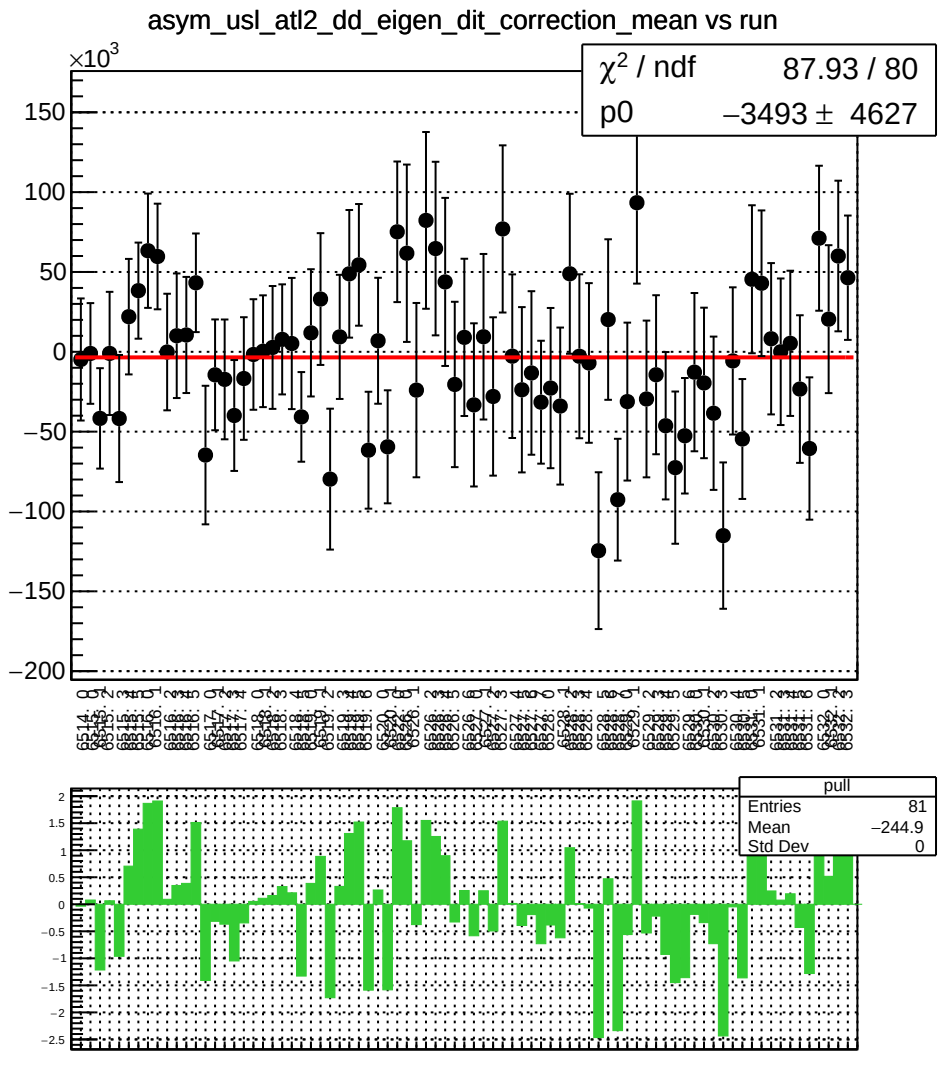

pull1D
Entries 81
Mean 0.008699
Std Dev 1.042
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

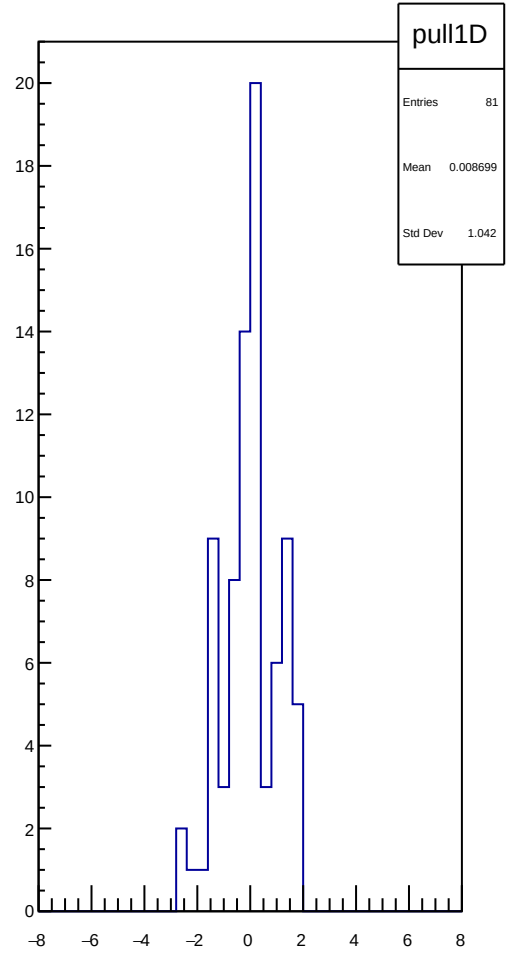

asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 3.615e+04 / 80
p0 4040 ± 3.272
5500
5000
4500
4000
3500
3000

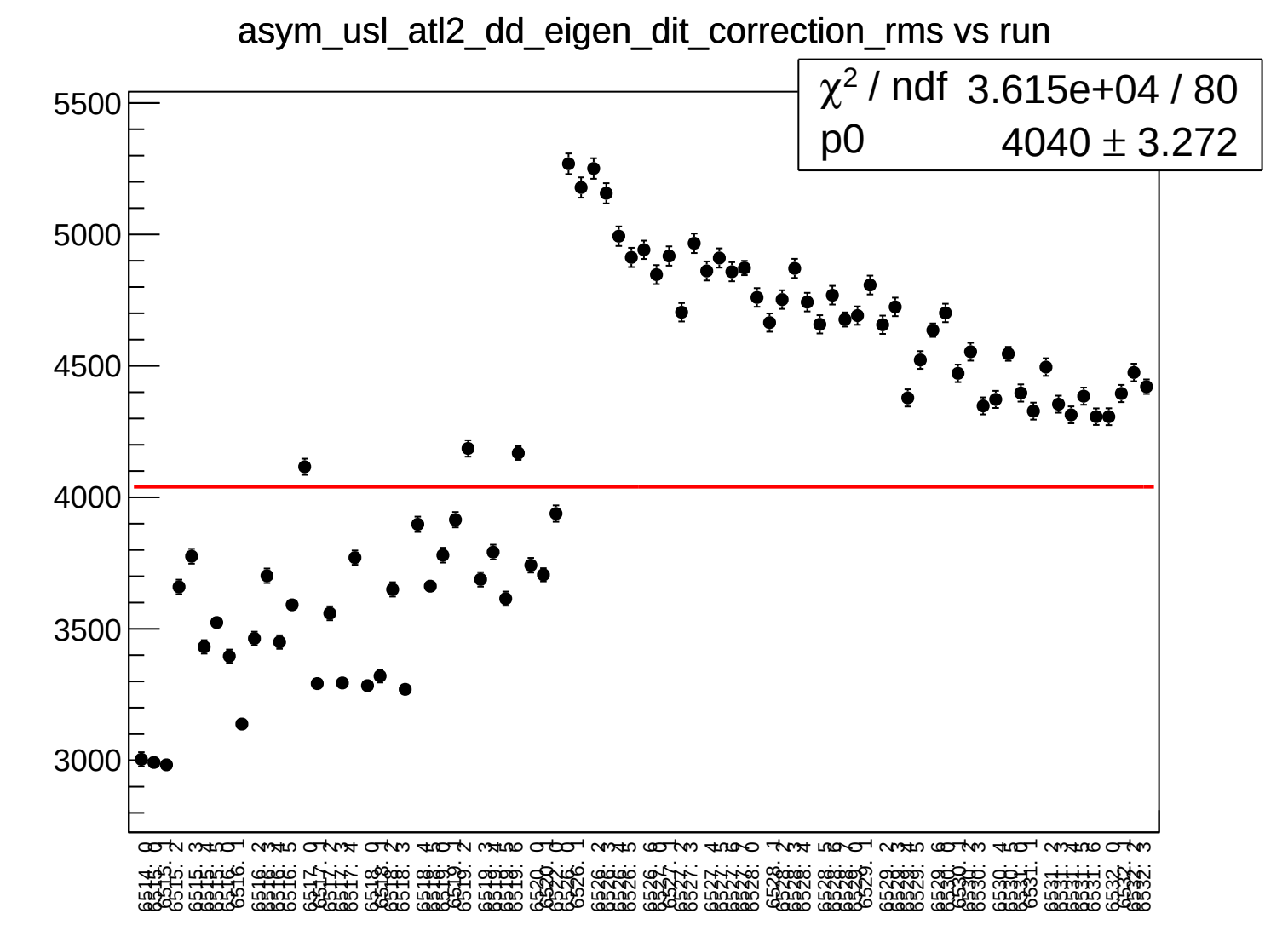

eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 84.32 / 80
p0 1377 ± 1431
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −586.3
Std Dev 0
2
1
0
−1
−2
−3

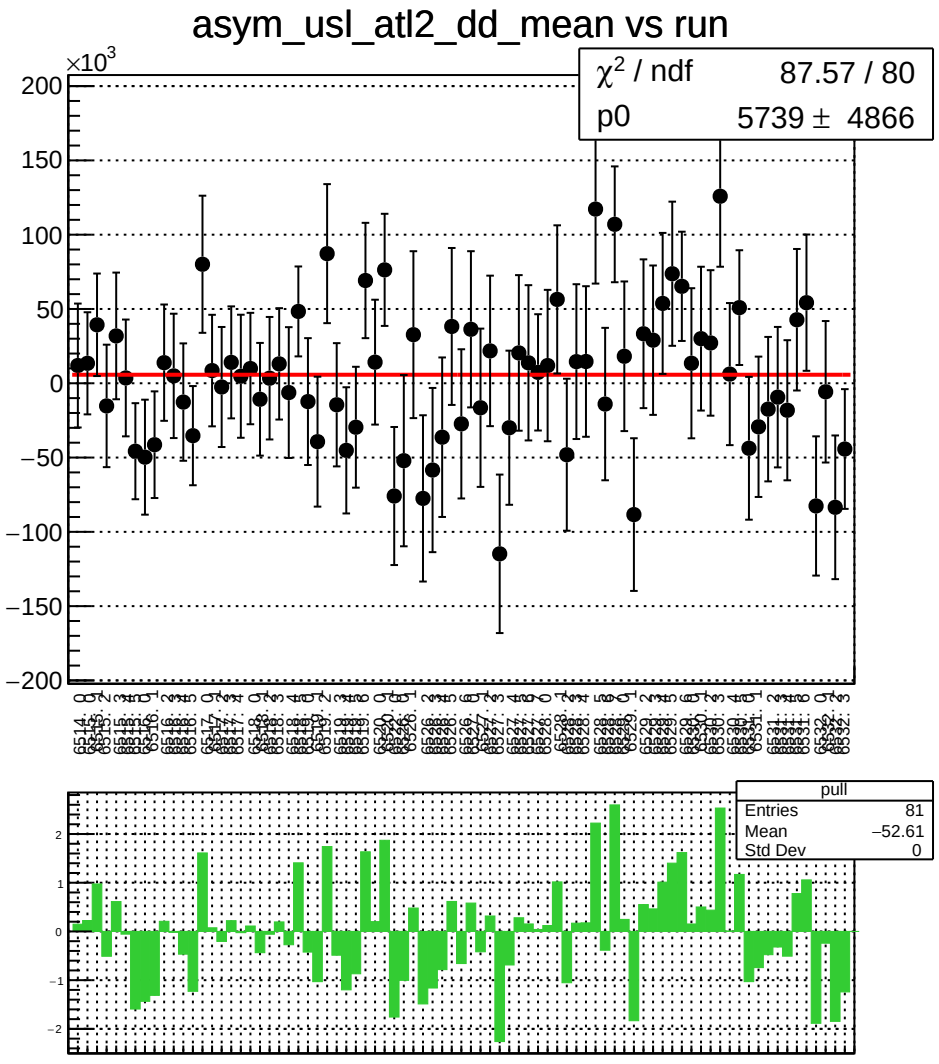

pull1D
Entries 81
Mean 0.003643
Std Dev 1.02
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

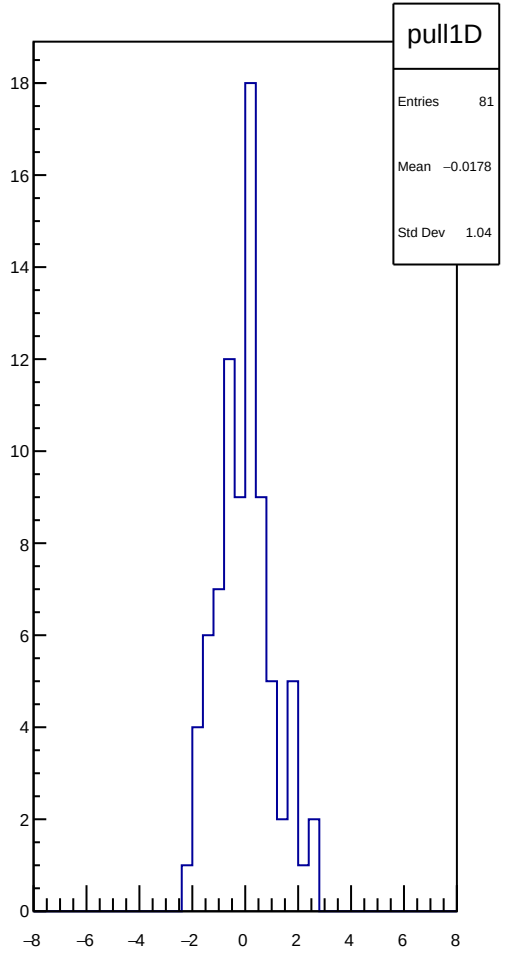

eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 627.2 / 80
p0 1264 ± 1.012
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200

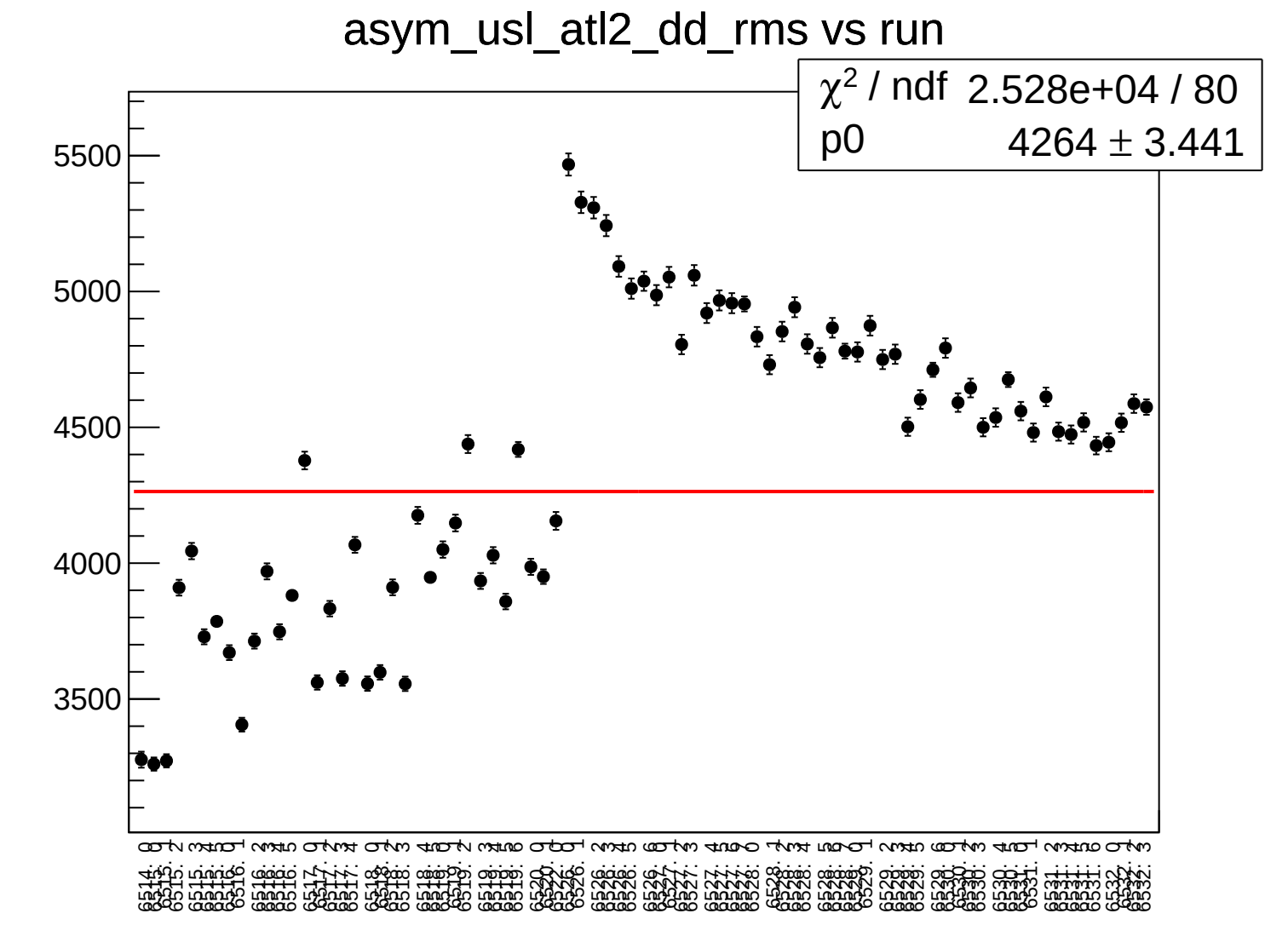

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
χ² / ndf 87.93 / 80
p0 −3493 ± 4627
pull
Entries 81
Mean −244.9
Std Dev 0

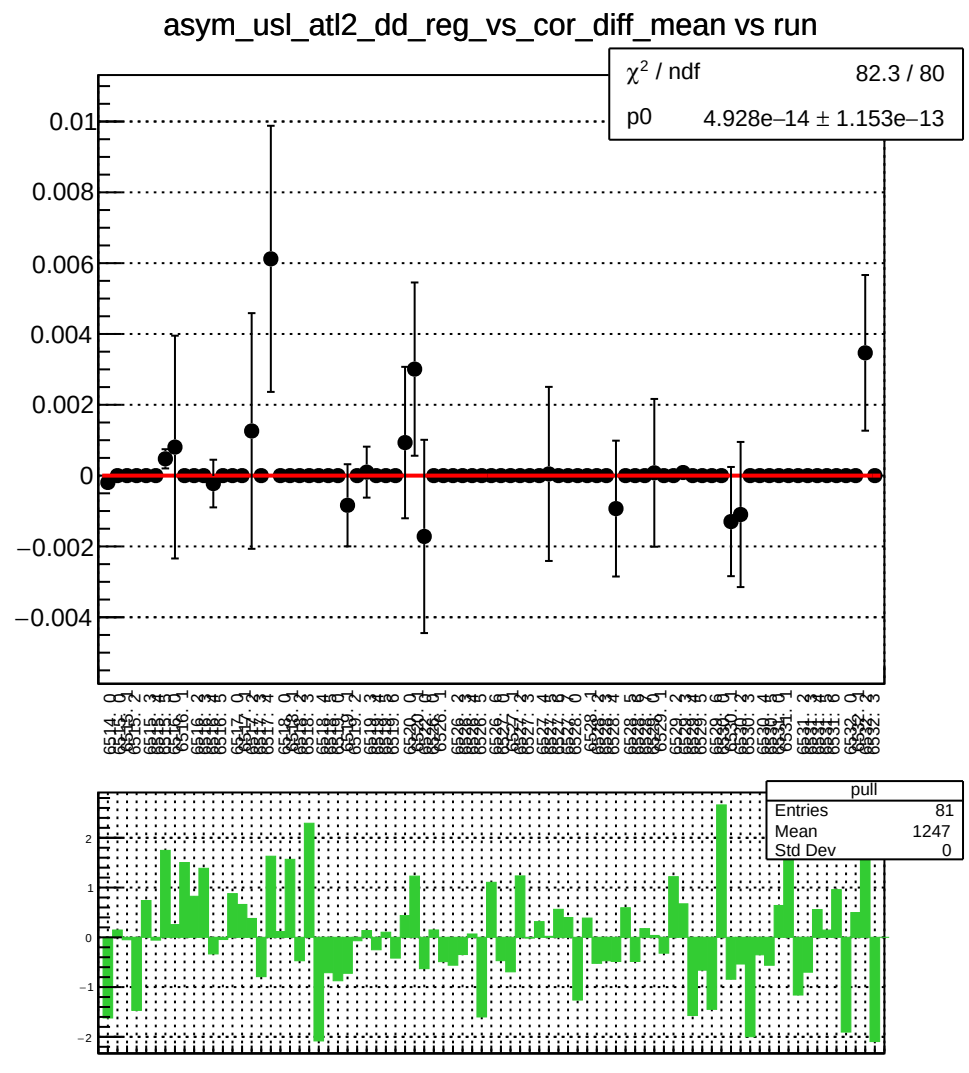

pull1D
Entries 81
Mean 0.008699
Std Dev 1.042

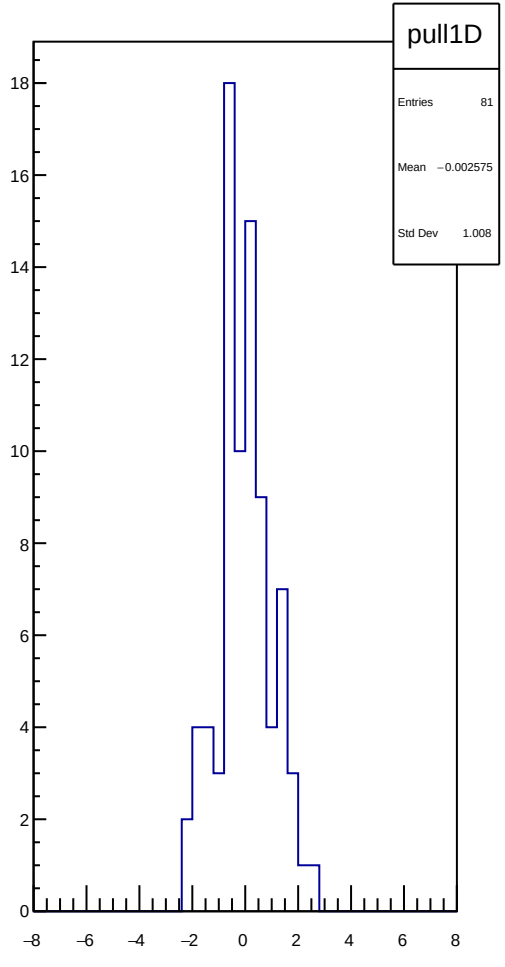

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.615e+04 / 80
p0 4040 ± 3.272
5500
5000
4500
4000
3500
3000

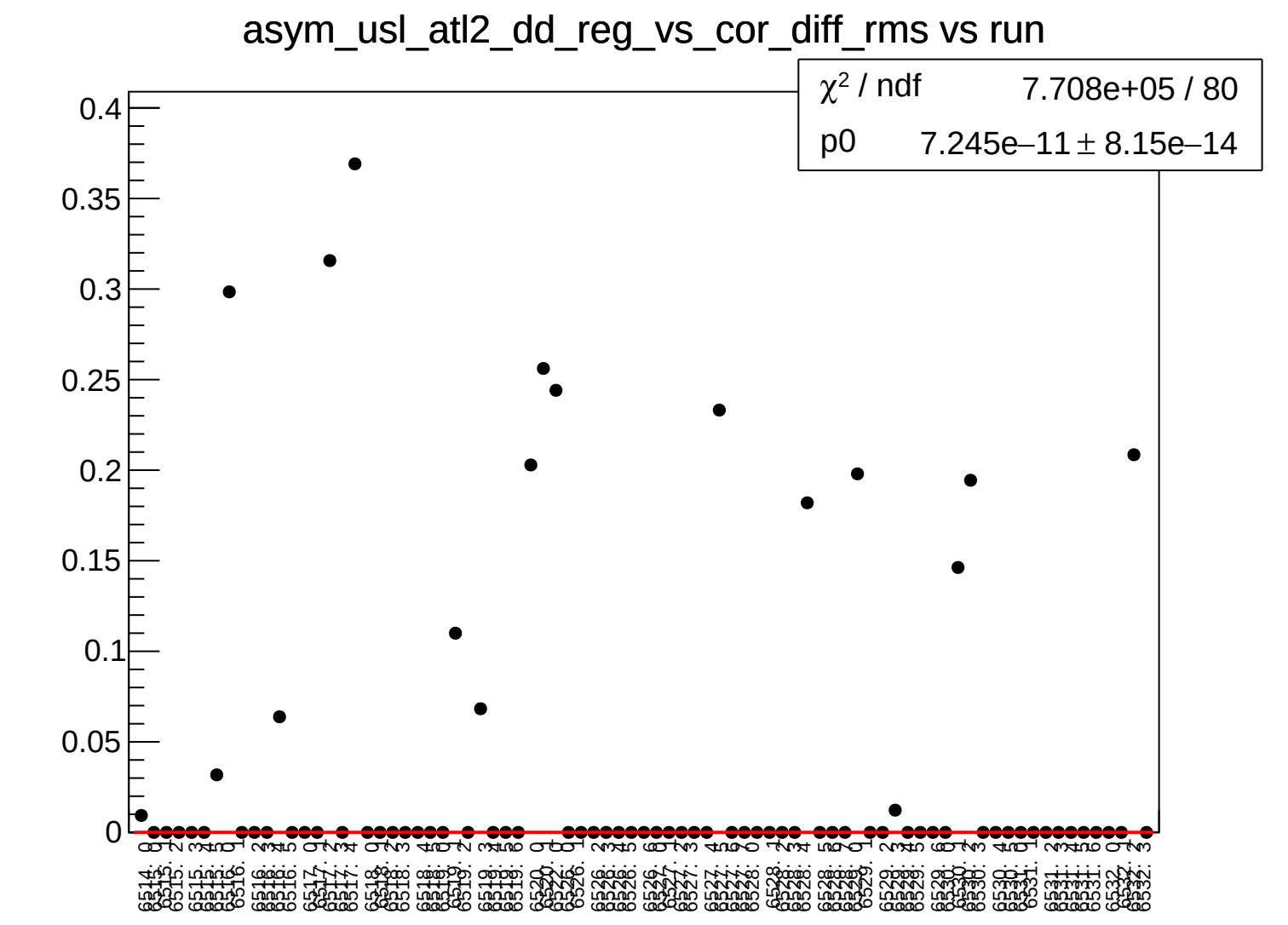

asym_usl_atl2_dd_mean vs run
×10^3
χ² / ndf 87.57 / 80
p0 5739 ± 4866
pull
Entries 81
Mean −52.61
Std Dev 0

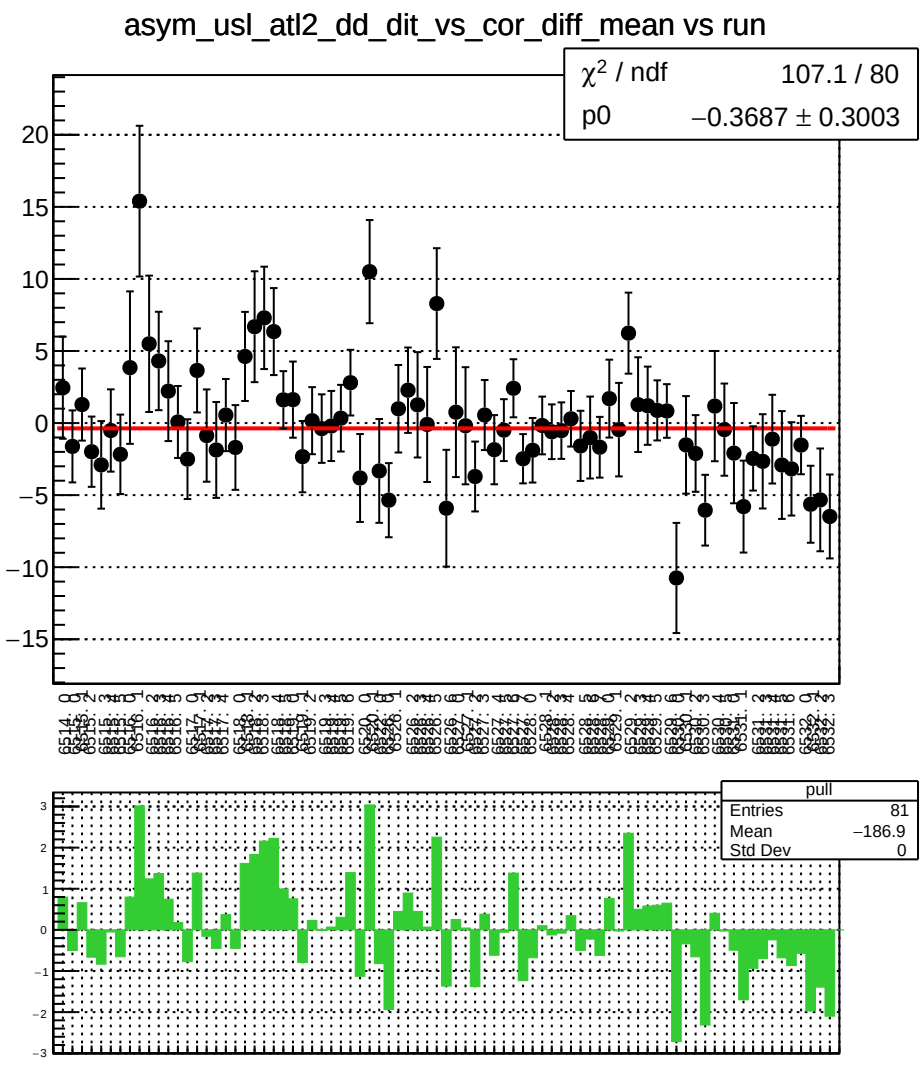

pull1D
Entries 81
Mean −0.0178
Std Dev 1.04

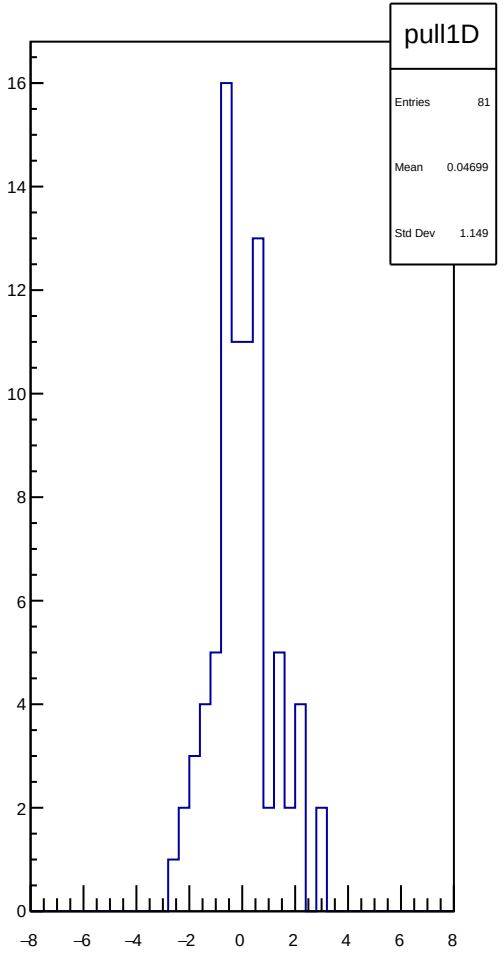

asym_usl_atl2_dd_rms vs run
χ² / ndf 2.528e+04 / 80
p0 4264 ± 3.441
5500
5000
4500
4000
3500

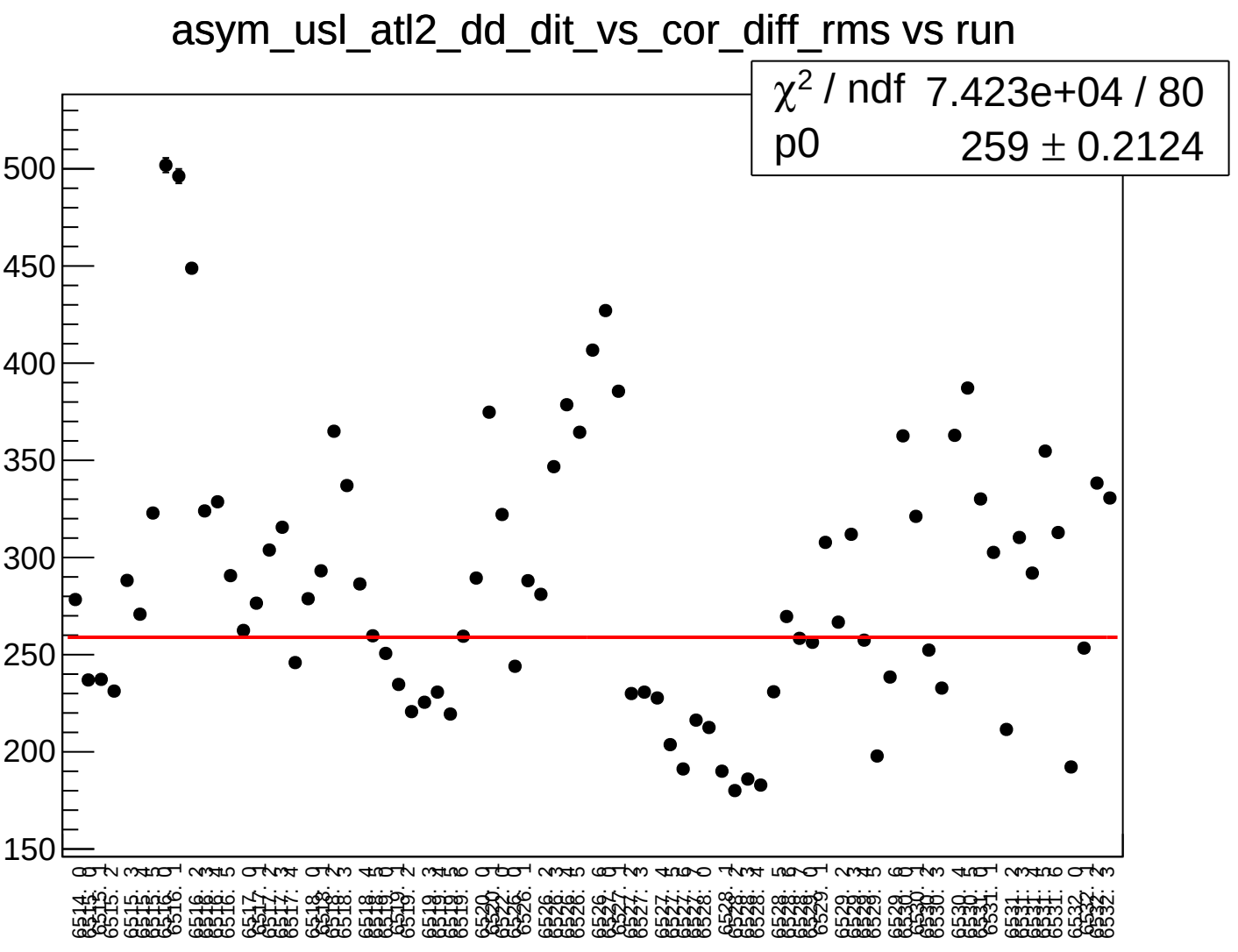

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 82.3 / 80
p0 4.928e−14 ± 1.153e−13
0.01
0.008
0.006
0.004
0.002
0
−0.002
−0.004
pull
Entries 81
Mean 1247
Std Dev 0
2
1
0
−1
−2

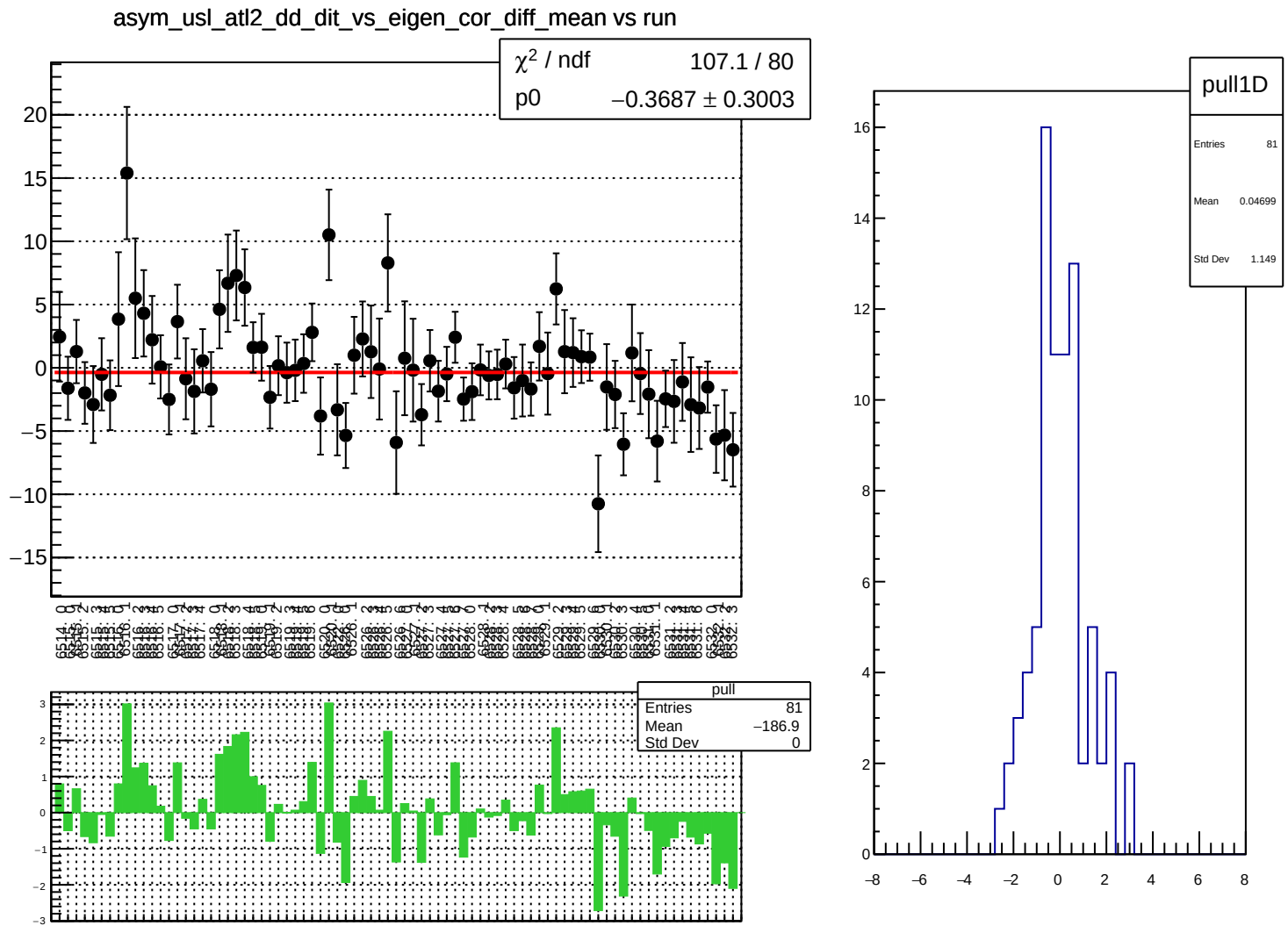

pull1D
Entries 81
Mean −0.002575
Std Dev 1.008
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

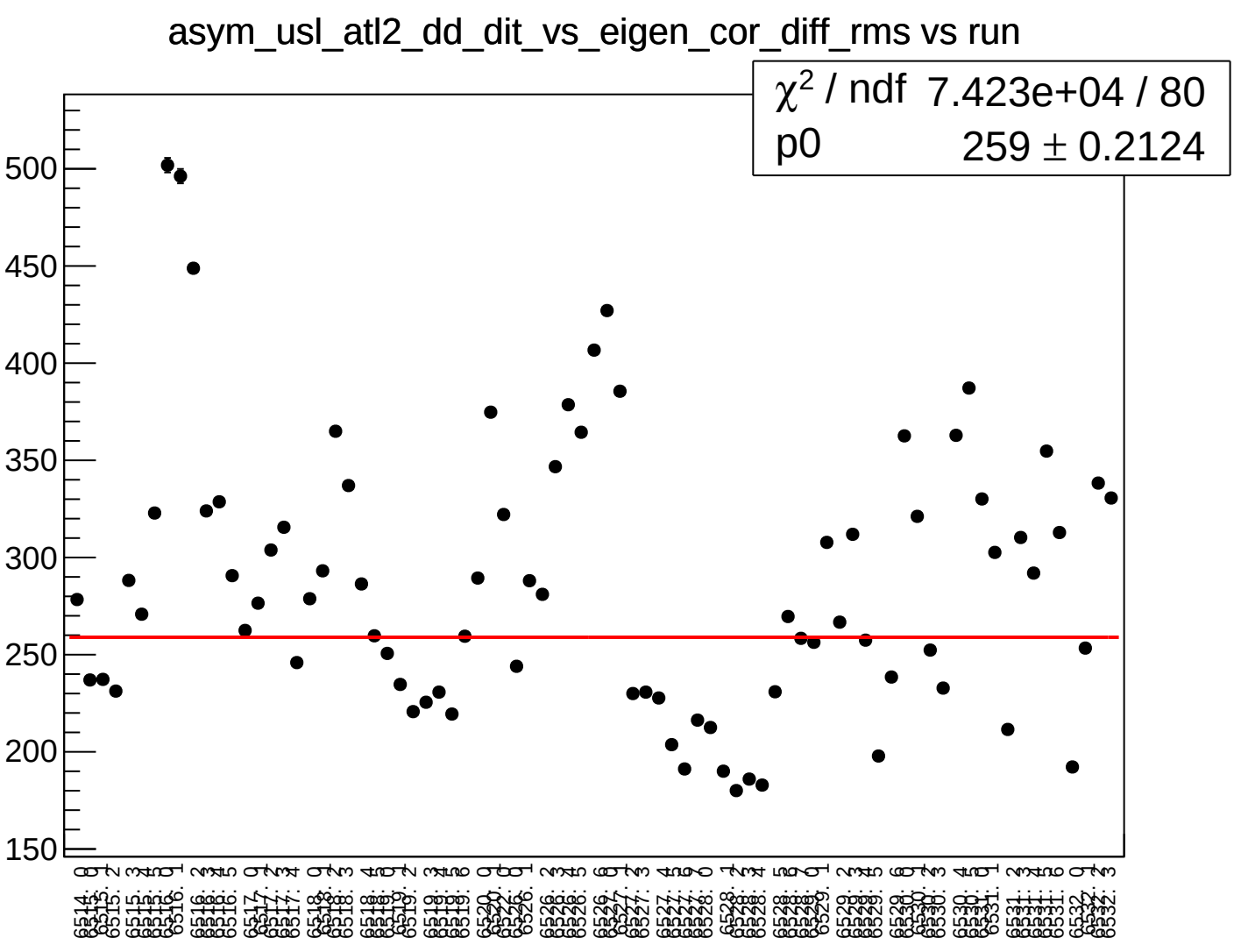

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.708e+05 / 80
p0 7.245e−11 ± 8.15e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0

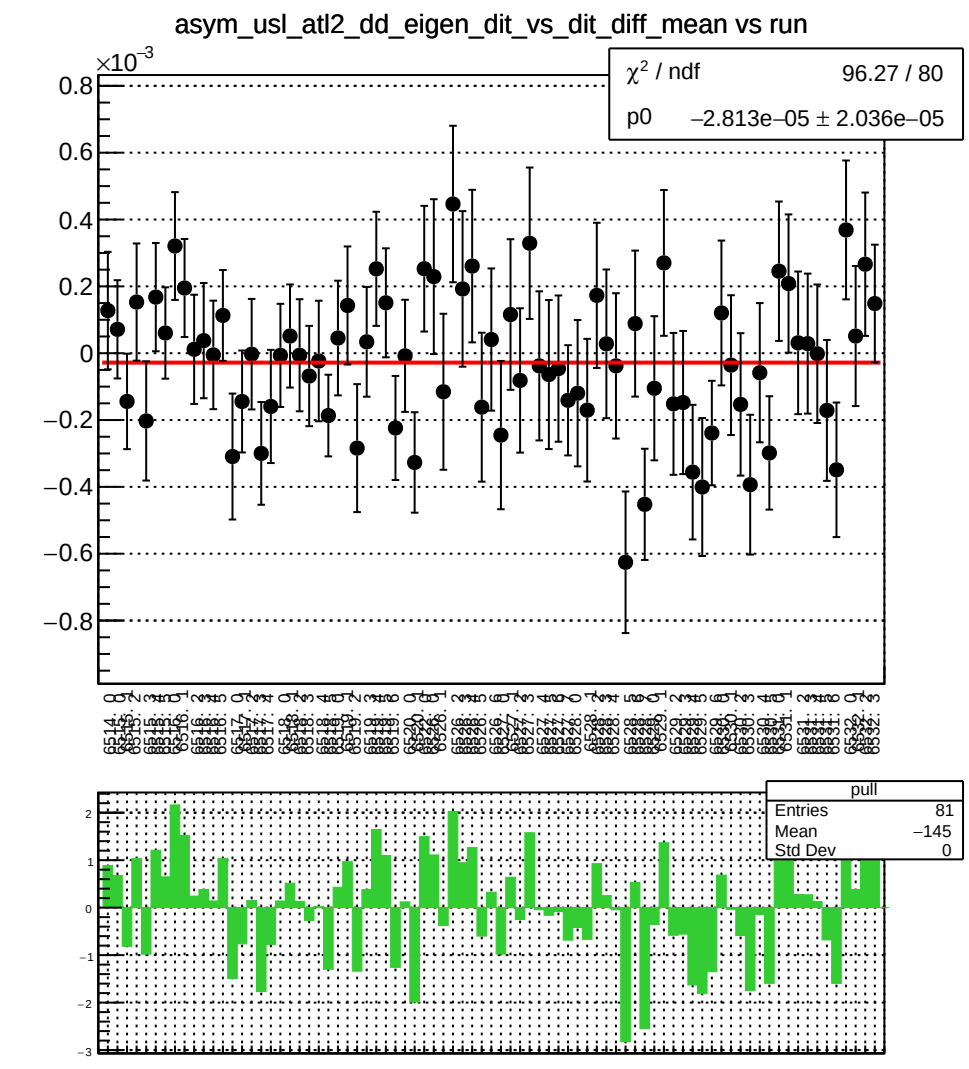

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 107.1 / 80
p0 −0.3687 ± 0.3003
pull
Entries 81
Mean −186.9
Std Dev 0

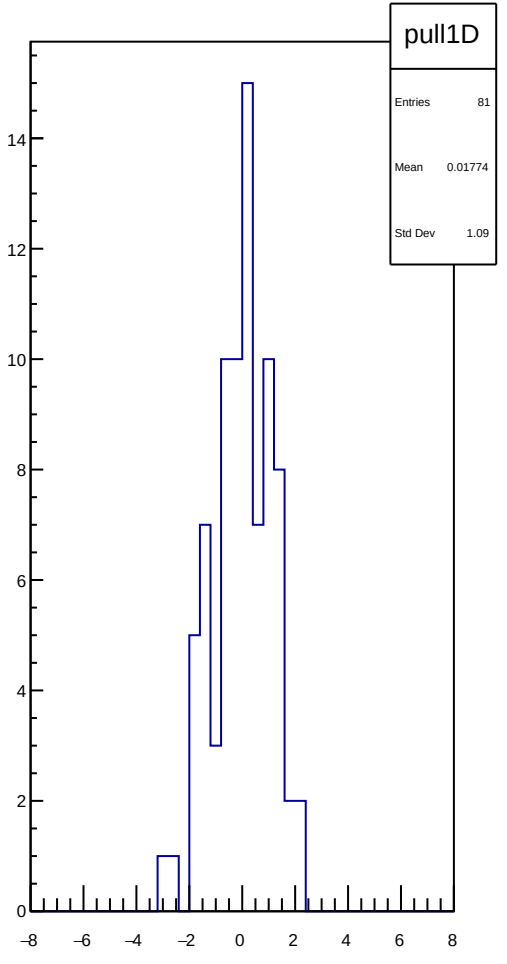

pull1D
Entries 81
Mean 0.04699
Std Dev 1.149

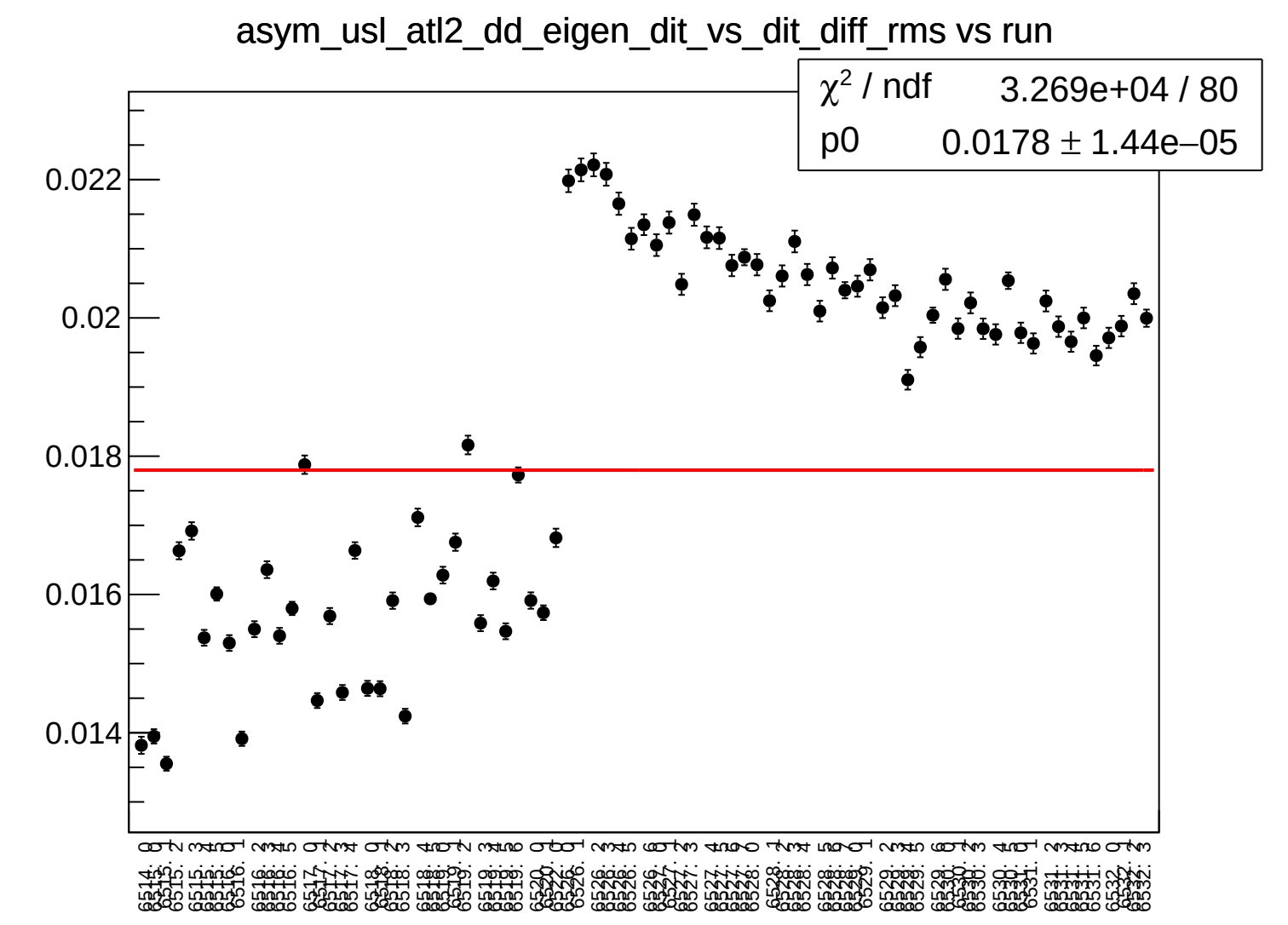

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.423e+04 / 80
p0 259 ± 0.2124
500
450
400
350
300
250
200
150

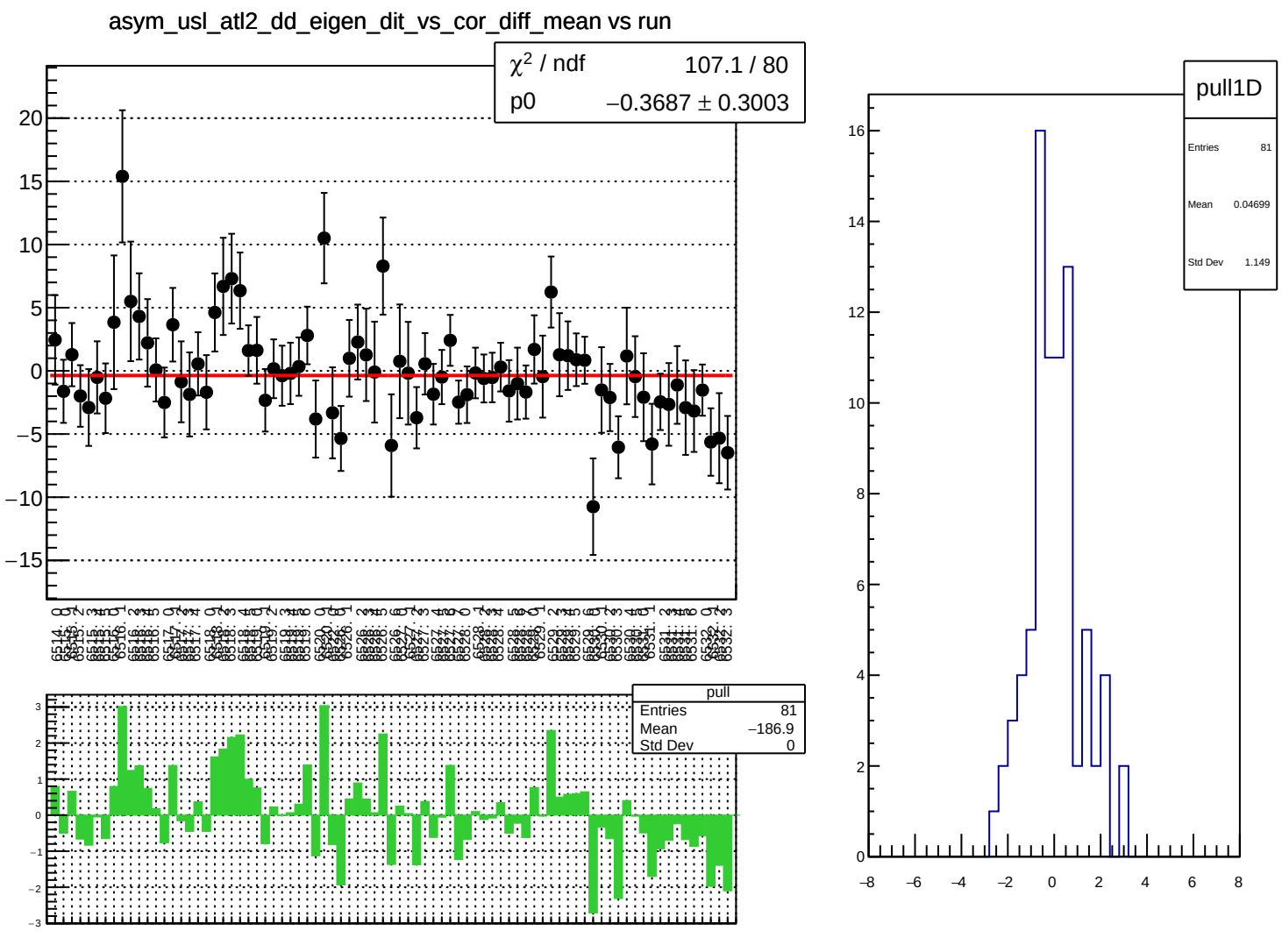

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.1 / 80
p0 −0.3687 ± 0.3003
pull
Entries 81
Mean −186.9
Std Dev 0
pull1D
Entries 81
Mean 0.04699
Std Dev 1.149

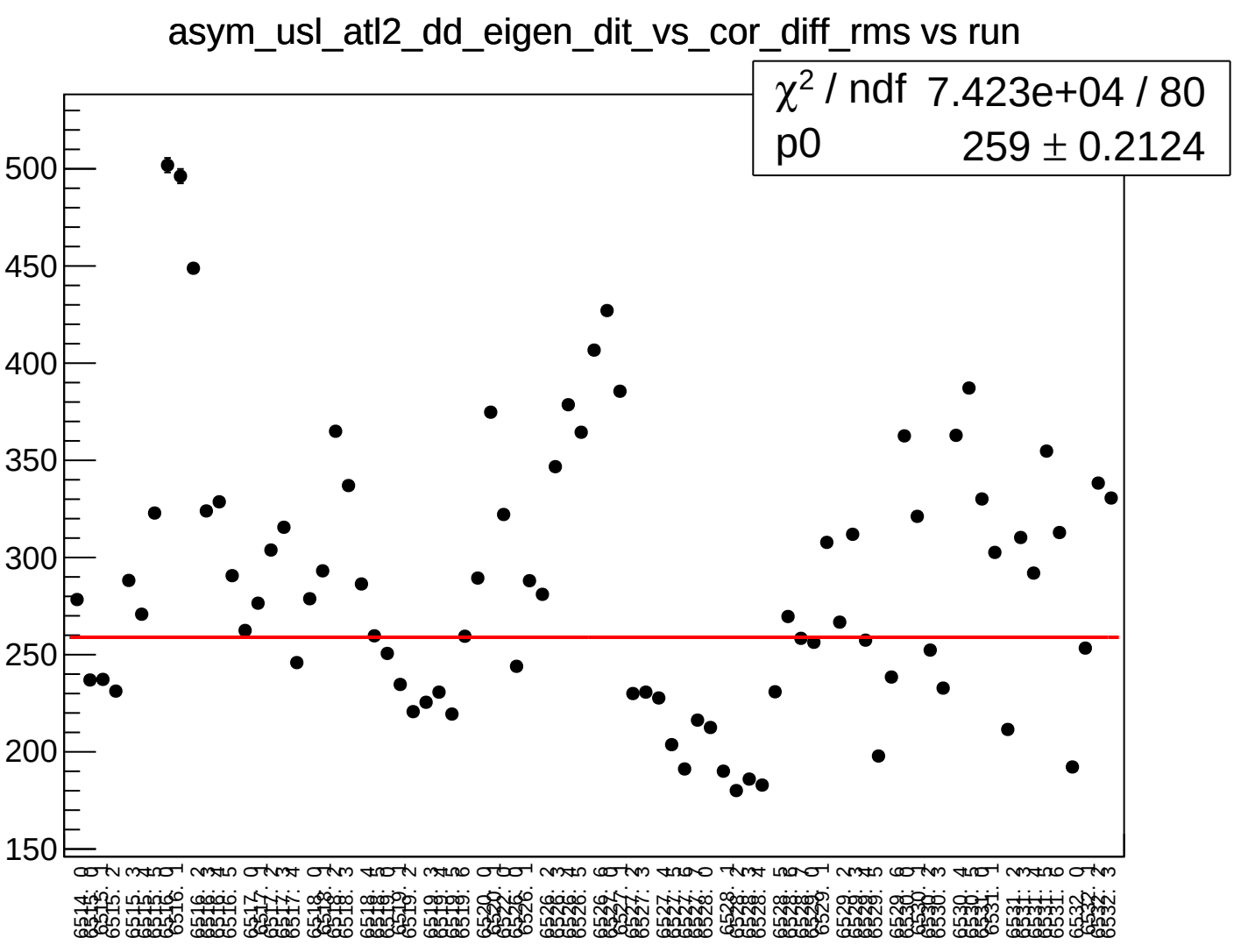

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.423e+04 / 80
p0 259 ± 0.2124
500
450
400
350
300
250
200
150

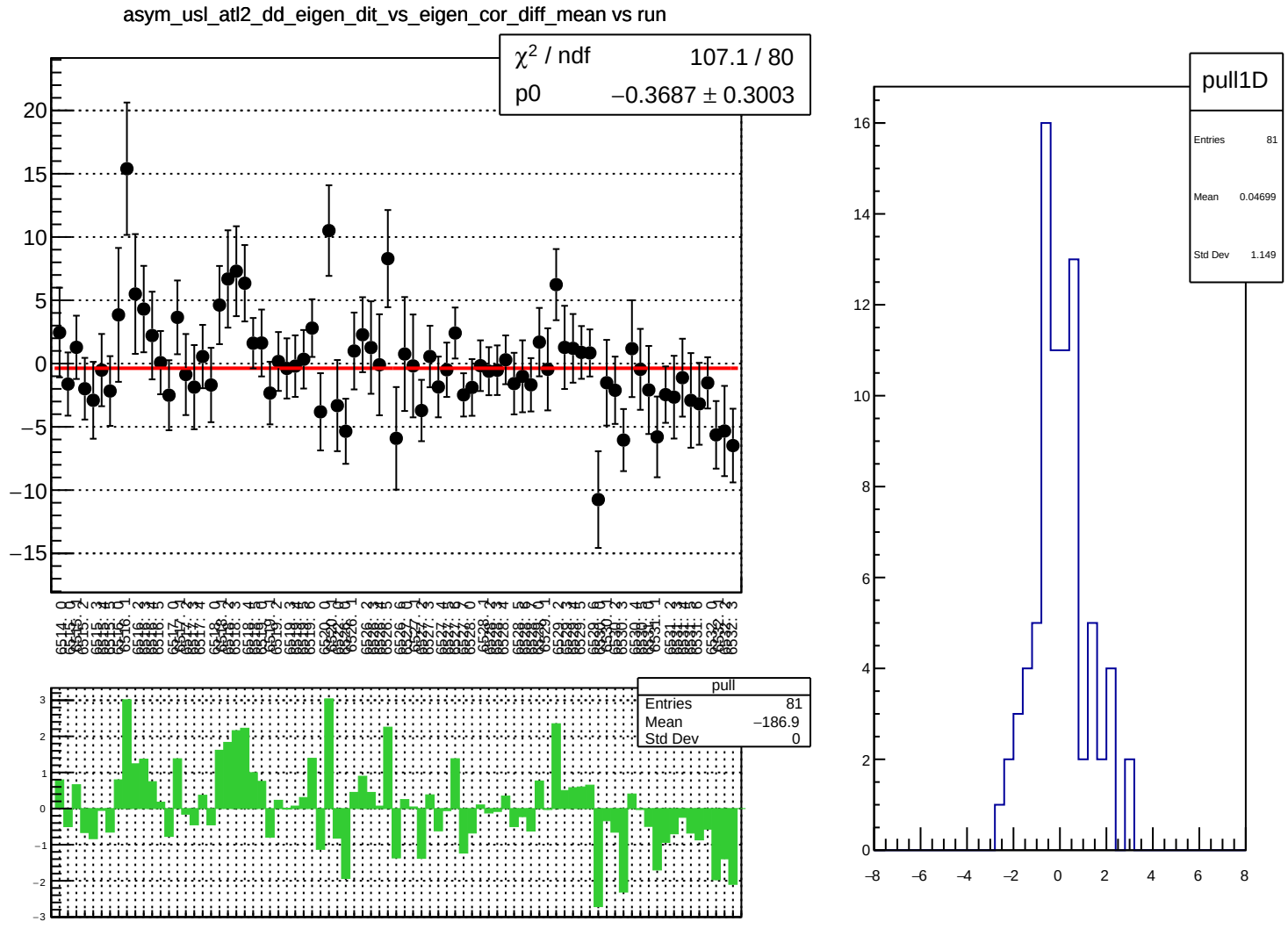

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.27 / 80
p0 −2.813e−05 ± 2.036e−05
pull
Entries 81
Mean −145
Std Dev 0

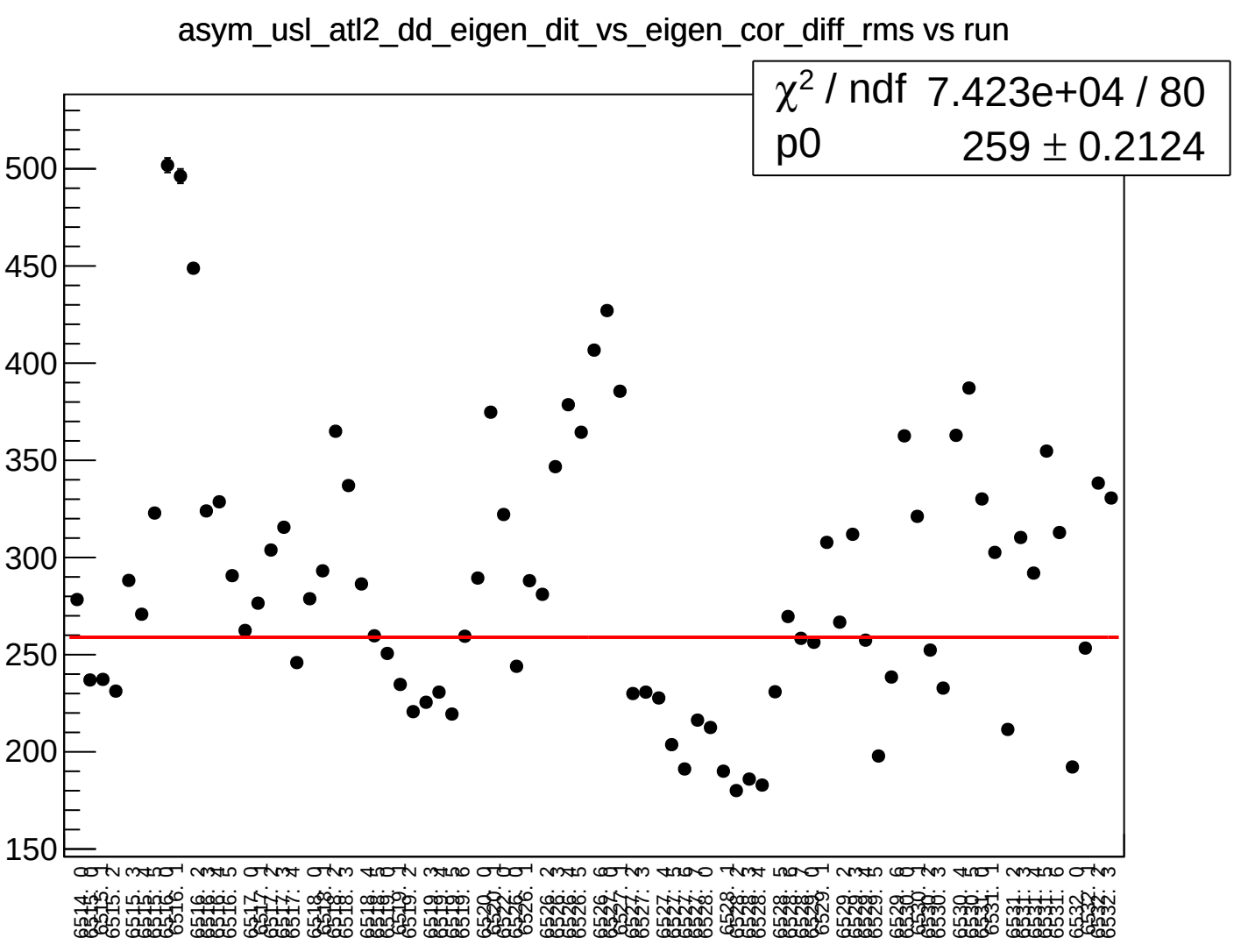

pull1D
Entries 81
Mean 0.01774
Std Dev 1.09

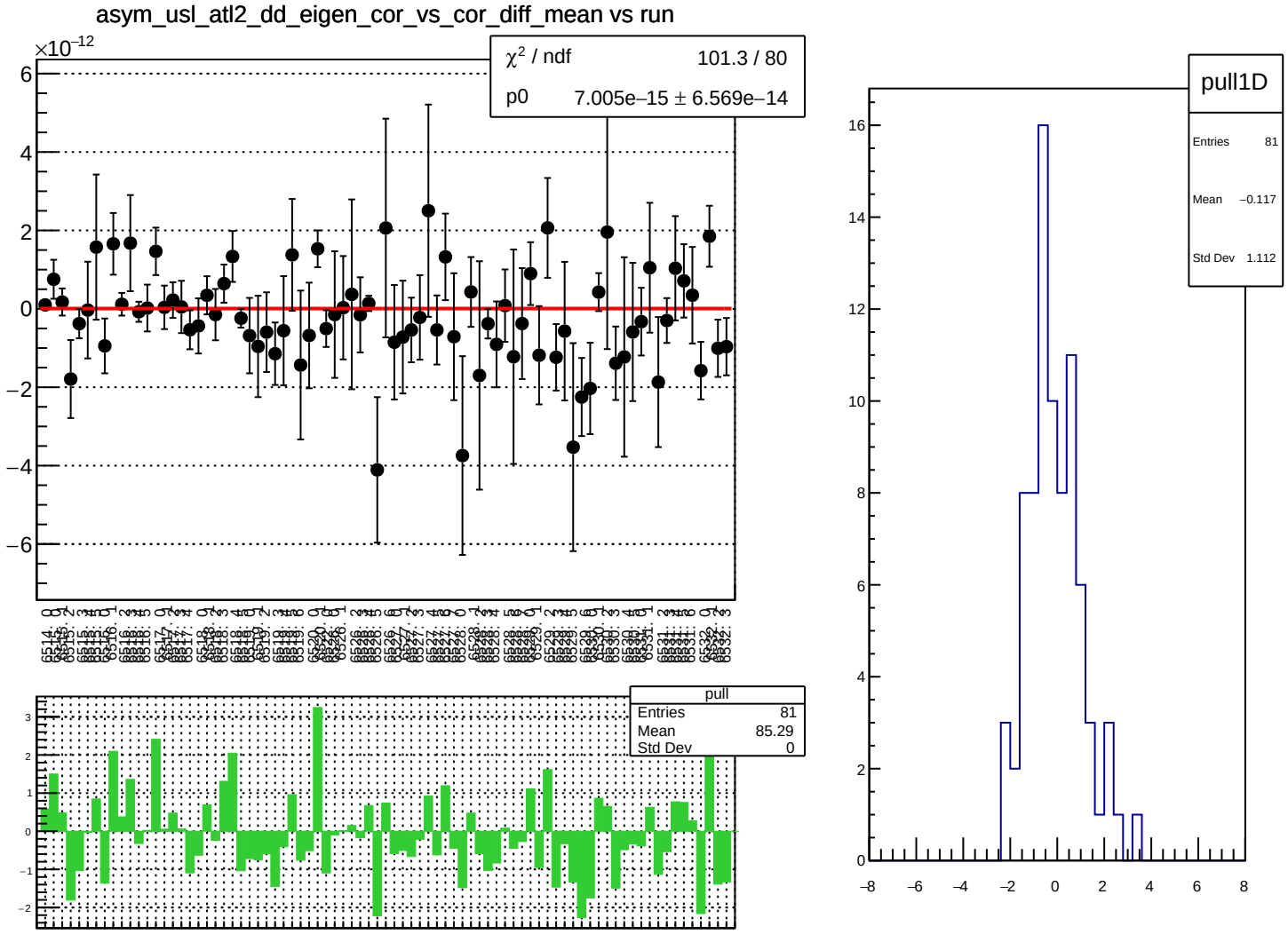

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.269e+04 / 80
p0 0.0178 ± 1.44e−05
0.022
0.02
0.018
0.016
0.014

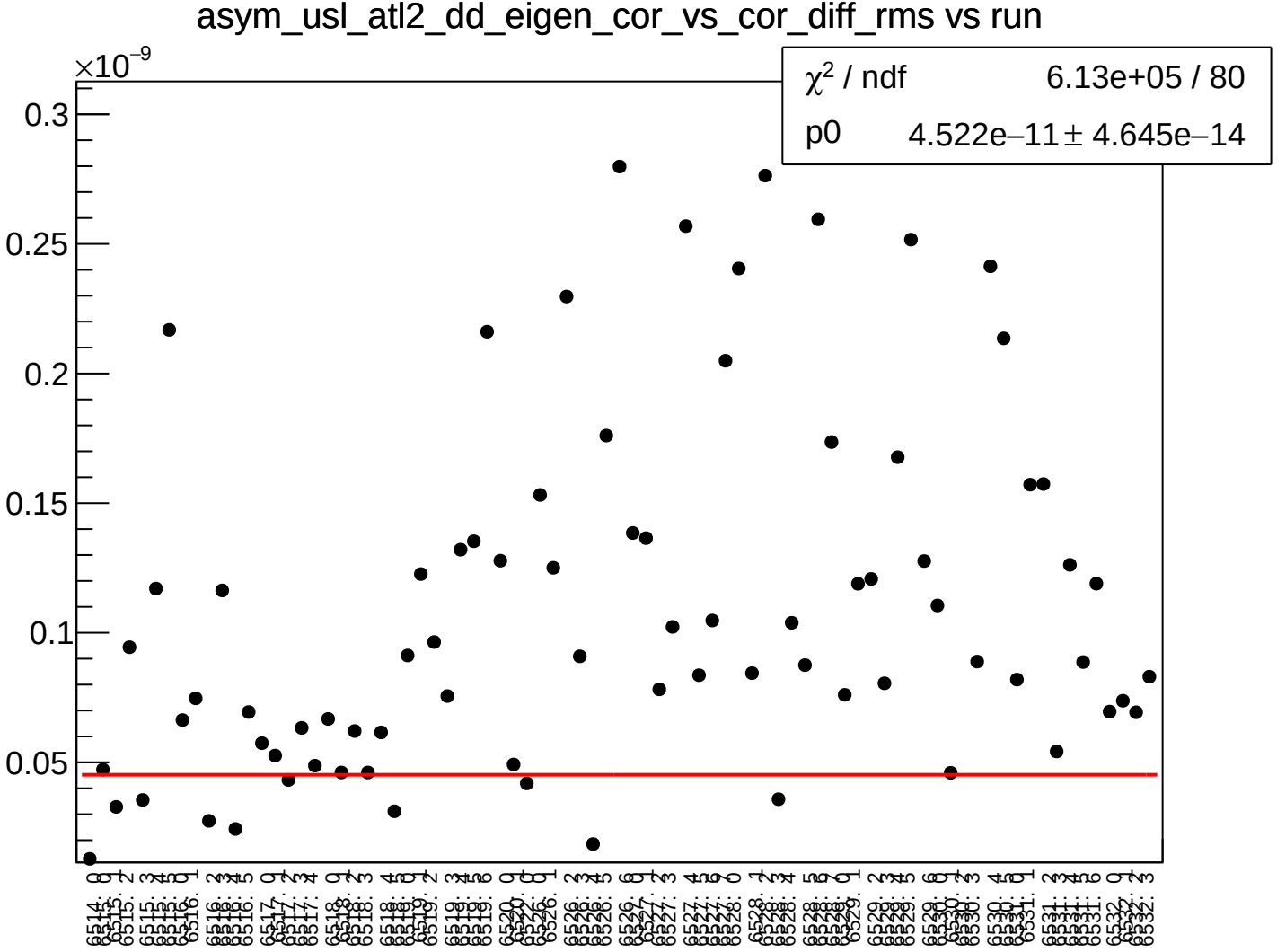

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 107.1 / 80
p0 −0.3687 ± 0.3003
pull
Entries 81
Mean −186.9
Std Dev 0
pull1D
Entries 81
Mean 0.04699
Std Dev 1.149

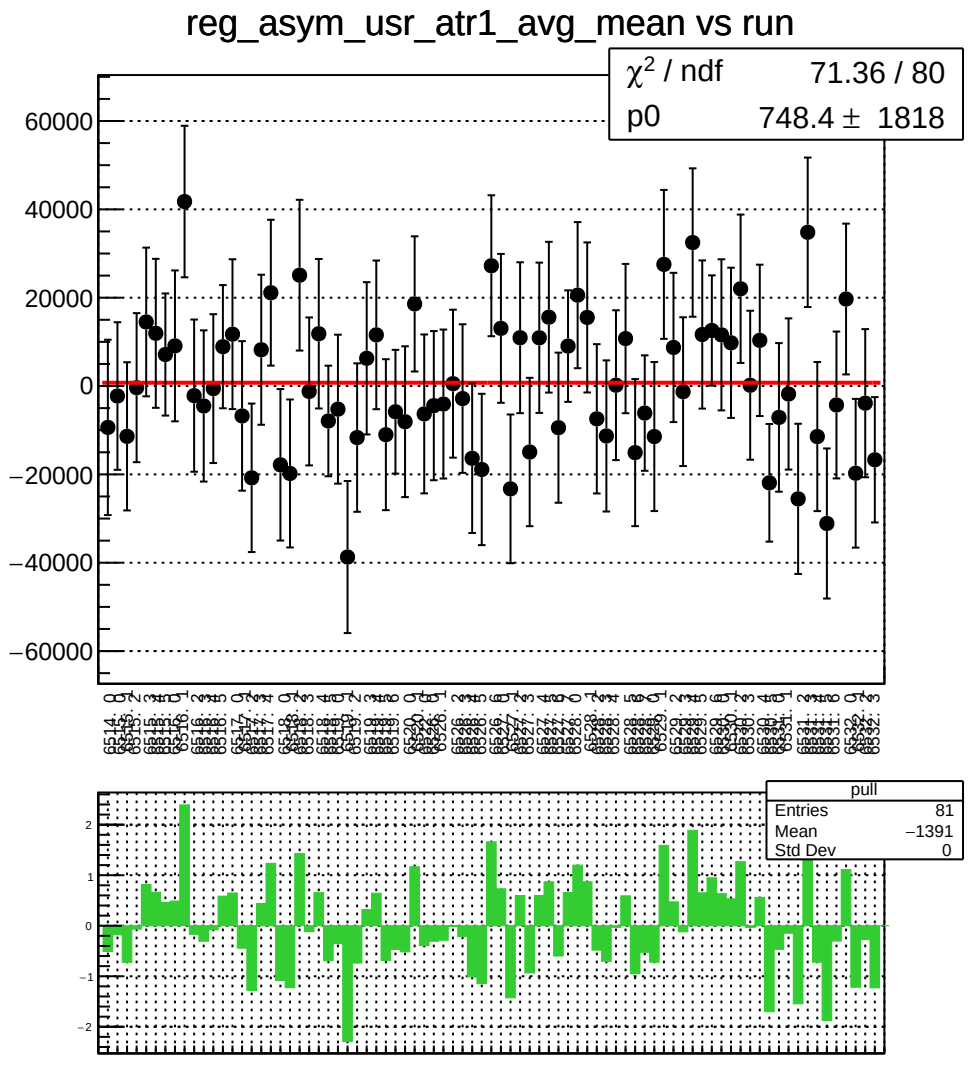

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.423e+04 / 80
p0 259 ± 0.2124
500
450
400
350
300
250
200
150

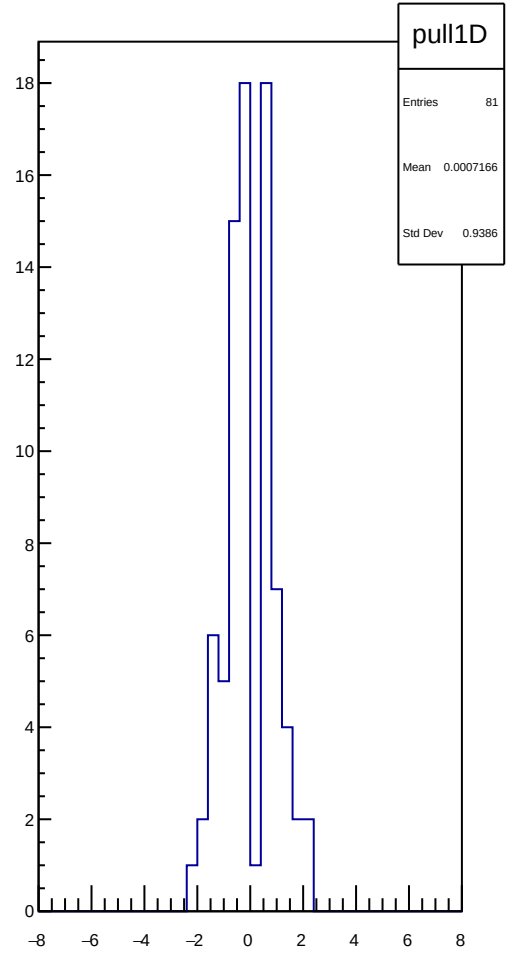

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.1 / 80
p0 −0.3687 ± 0.3003
pull
Entries 81
Mean −186.9
Std Dev 0
pull1D
Entries 81
Mean 0.04699
Std Dev 1.149

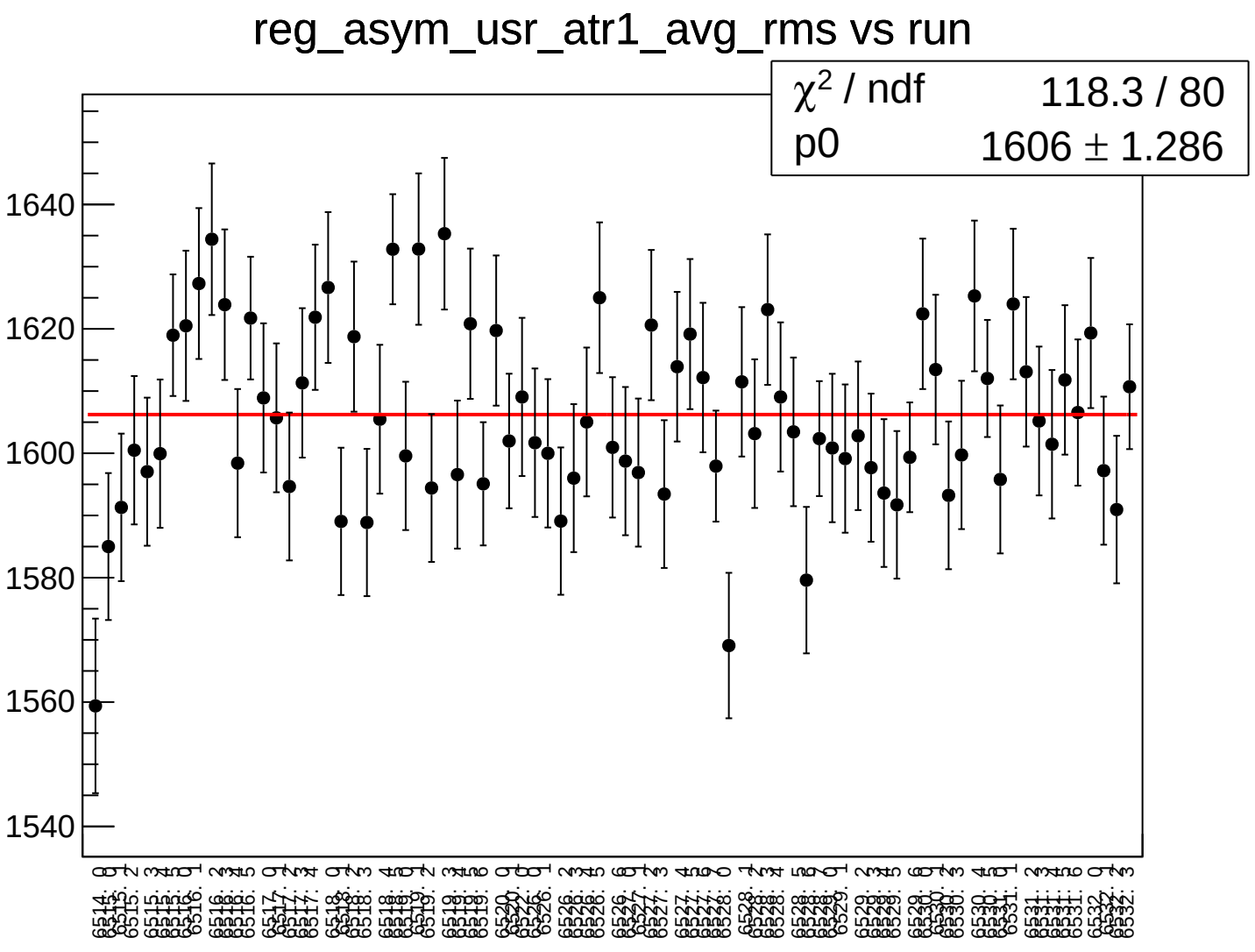

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.423e+04 / 80
p0 259 ± 0.2124
500
450
400
350
300
250
200
150

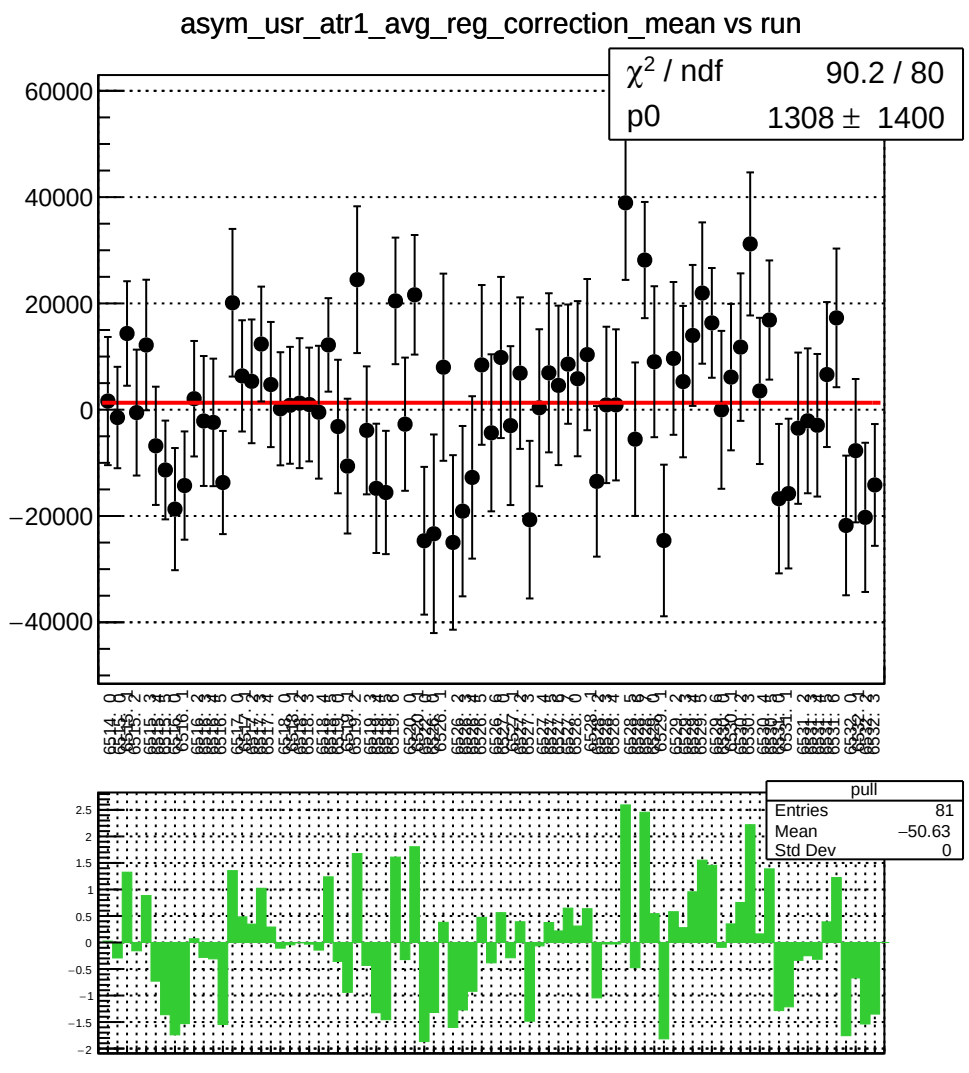

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 101.3 / 80
p0 7.005e−15 ± 6.569e−14
pull
Entries 81
Mean 85.29
Std Dev 0
pull1D
Entries 81
Mean −0.117
Std Dev 1.112

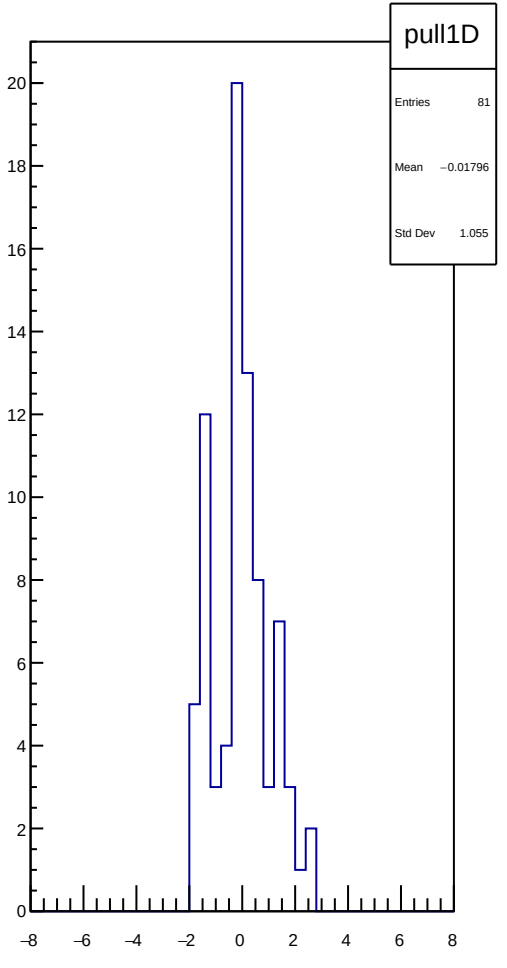

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.13e+05 / 80
p0 4.522e−11 ± 4.645e−14
0.3
0.25
0.2
0.15
0.1
0.05

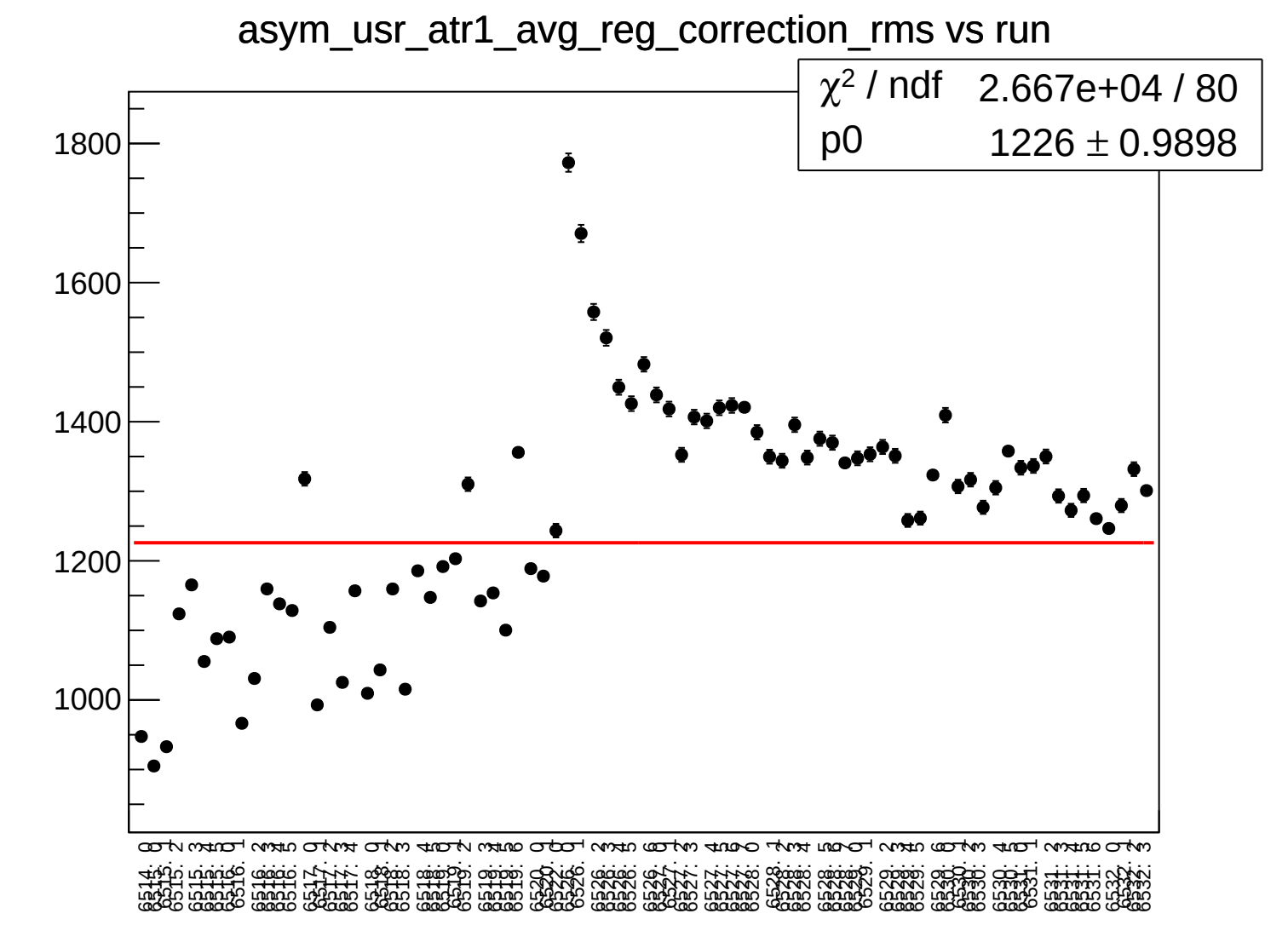

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 71.36 / 80
p0 748.4 ± 1818
pull
Entries 81
Mean −1391
Std Dev 0

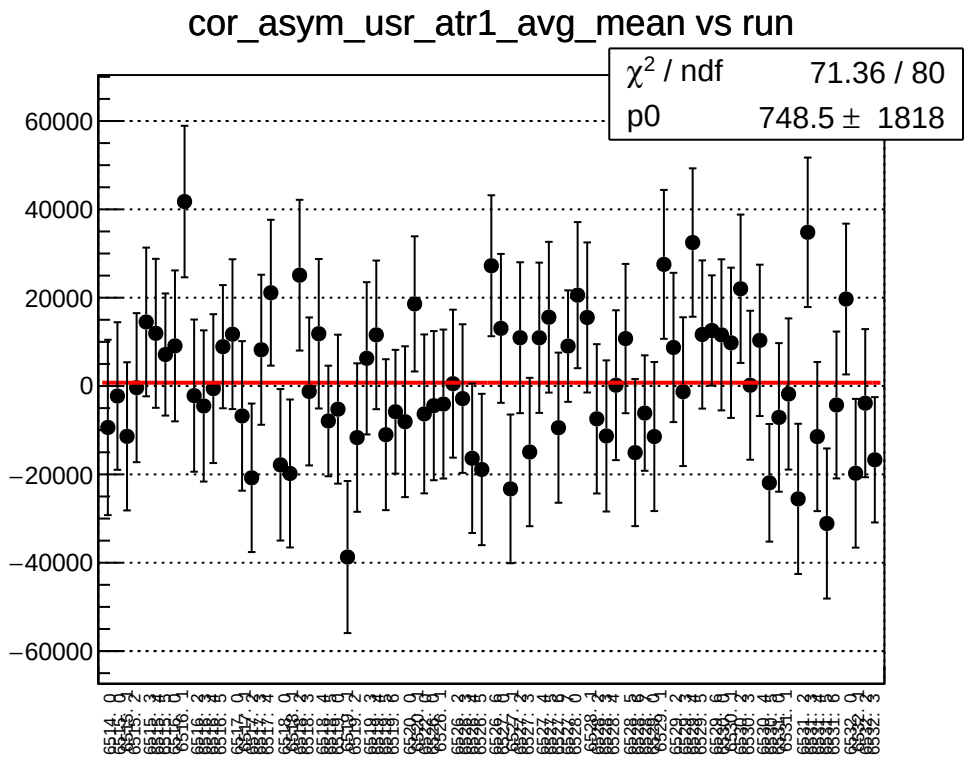

pull1D
Entries 81
Mean 0.0007166
Std Dev 0.9386

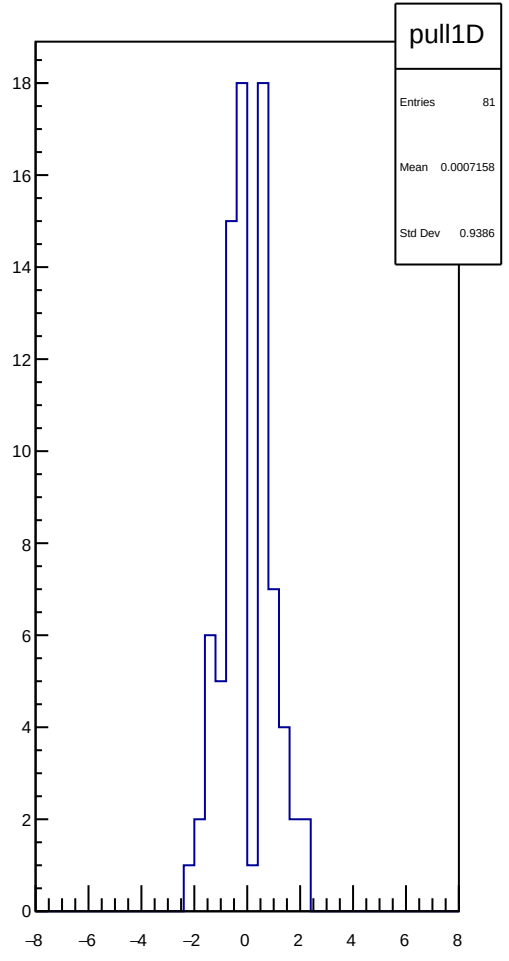

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 118.3 / 80
p0 1606 ± 1.286
1640
1620
1600
1580
1560
1540

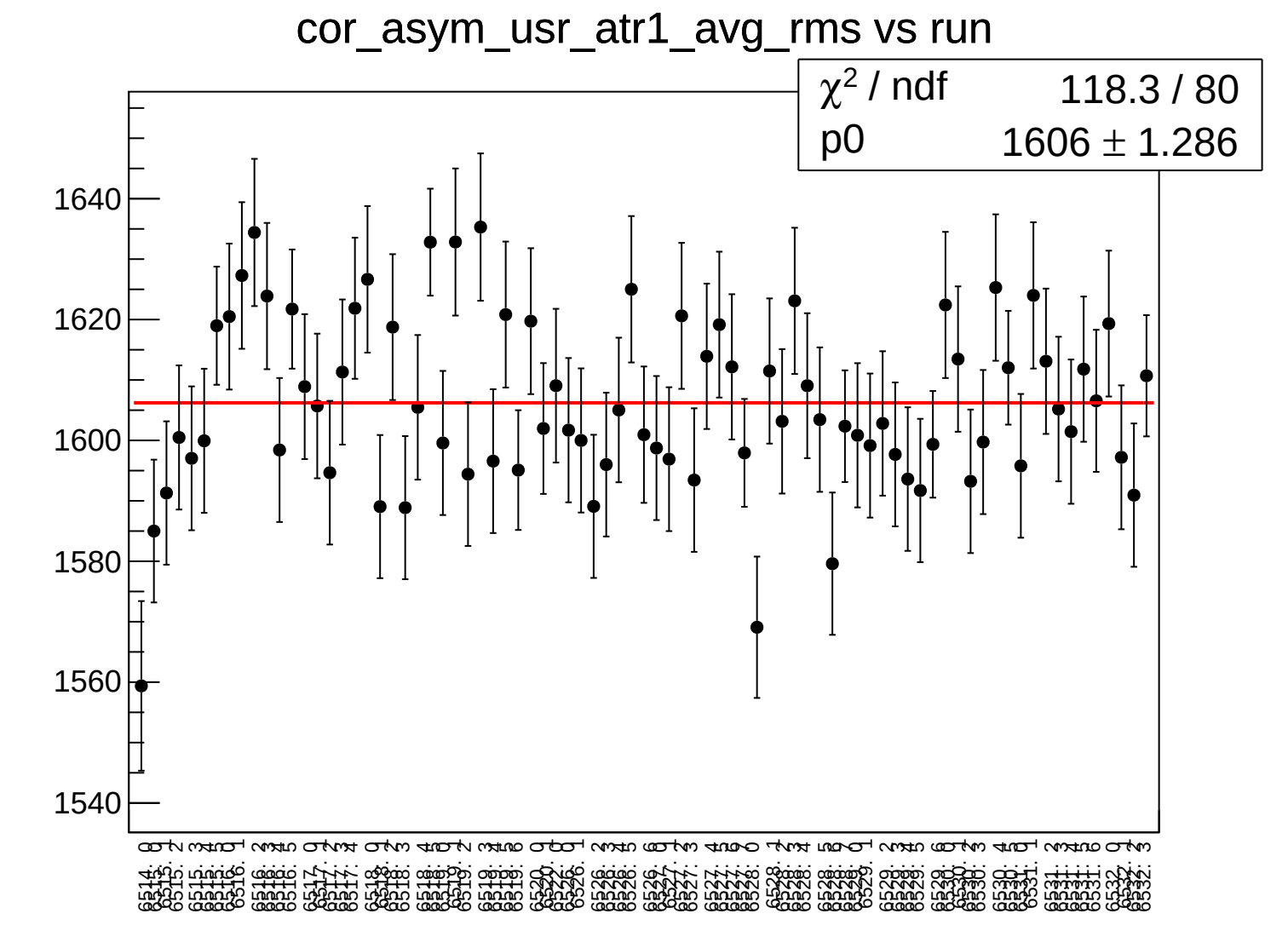

asym_usr_atr1_avg_reg_correction_mean vs run
χ² / ndf 90.2 / 80
p0 1308 ± 1400
60000
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −50.63
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

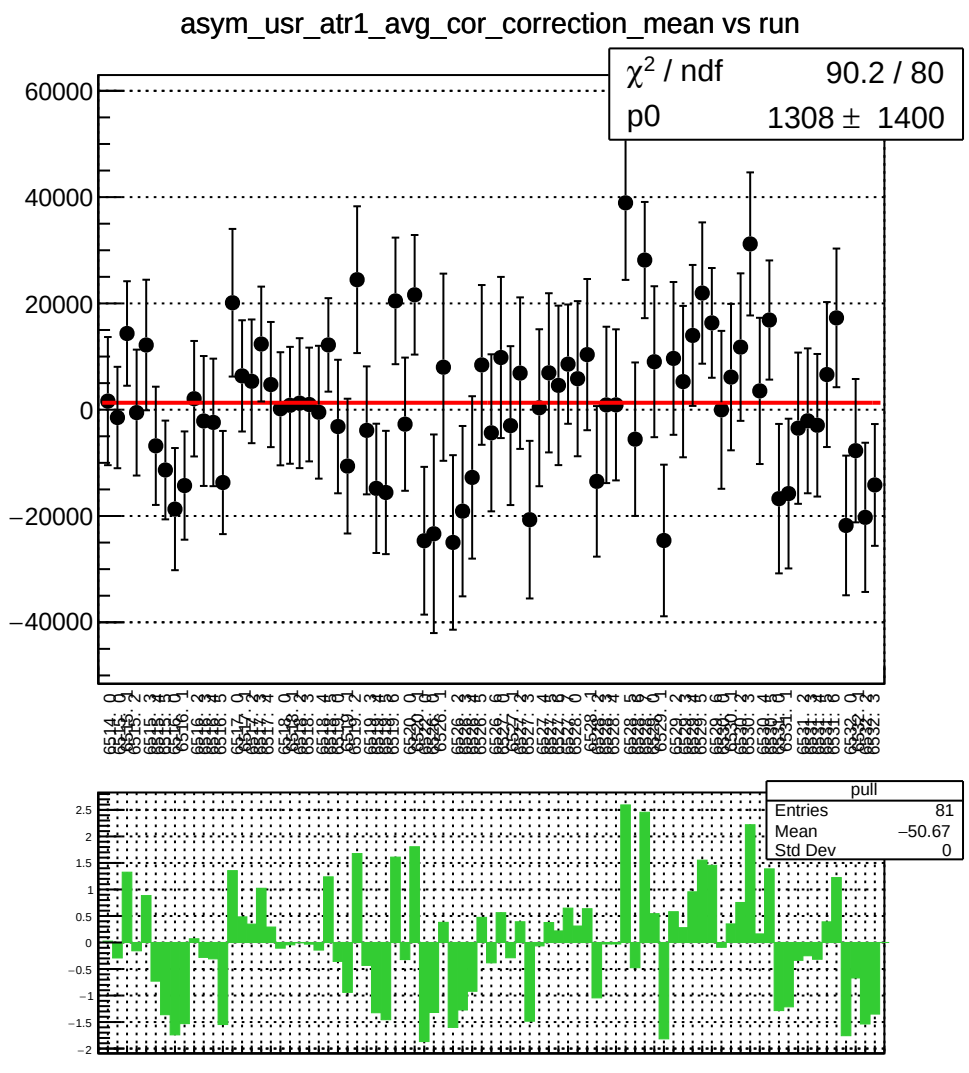

pull1D
Entries 81
Mean −0.01796
Std Dev 1.055
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

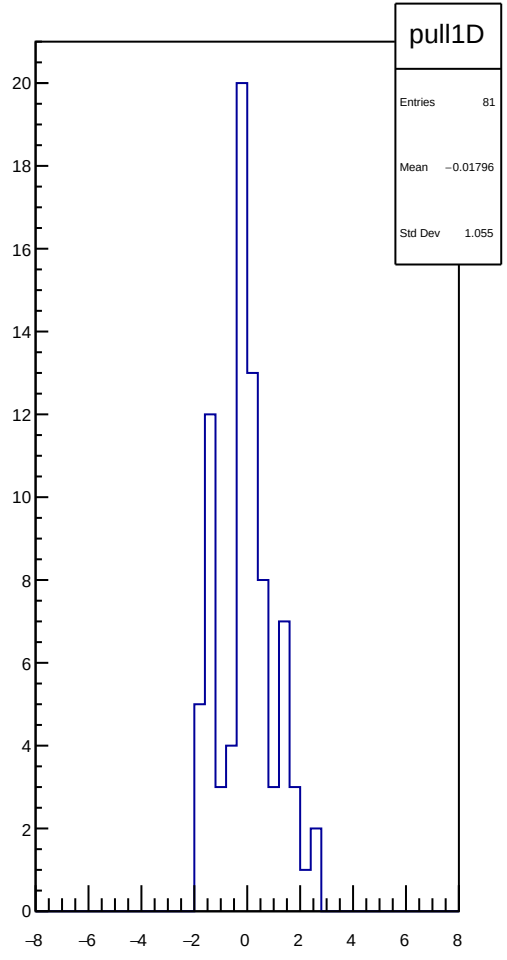

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 2.667e+04 / 80
p0 1226 ± 0.9898
1800
1600
1400
1200
1000

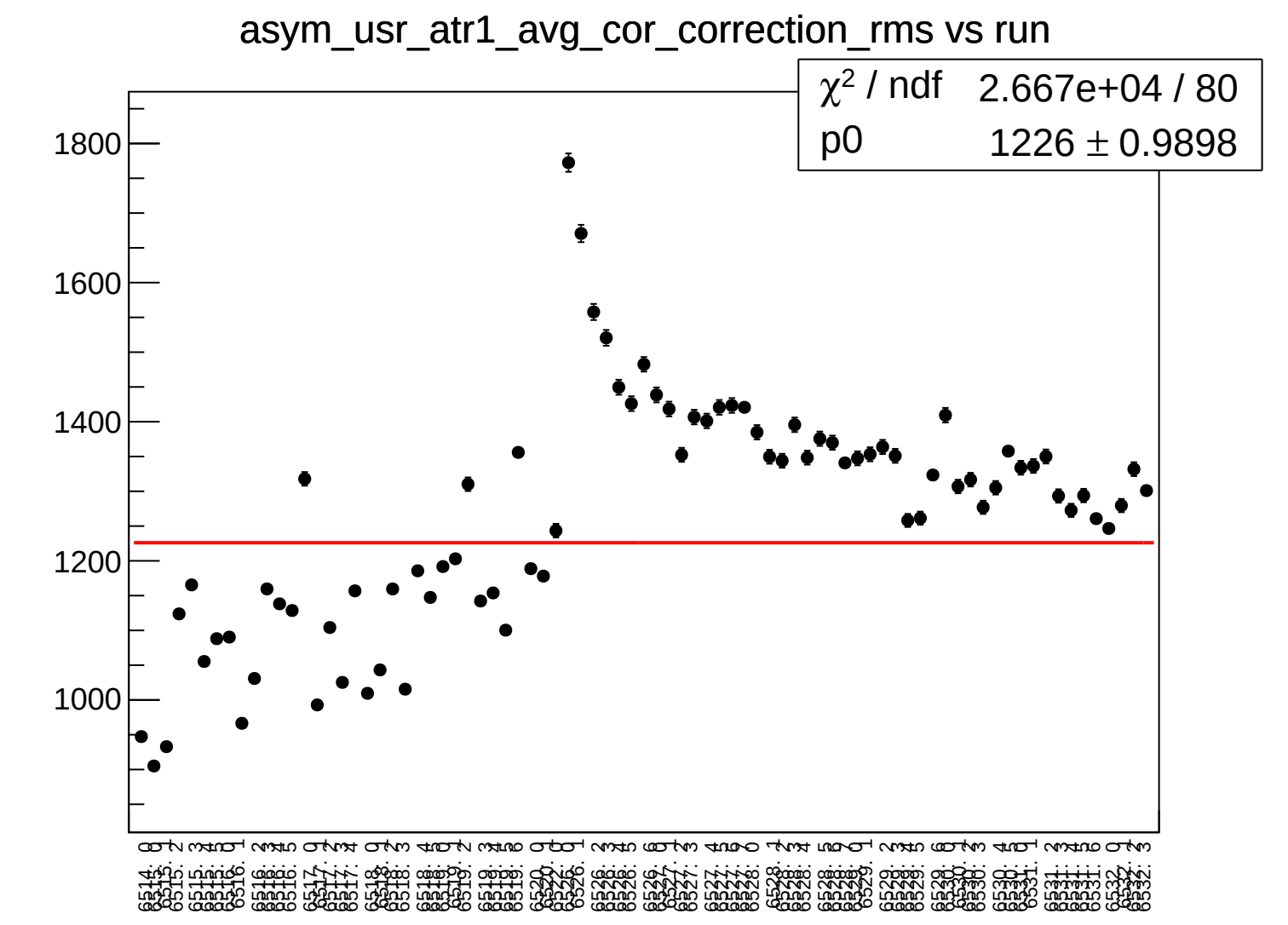

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 71.36 / 80
p0 748.5 ± 1818
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −1392
Std Dev 0
2
1
0
−1
−2

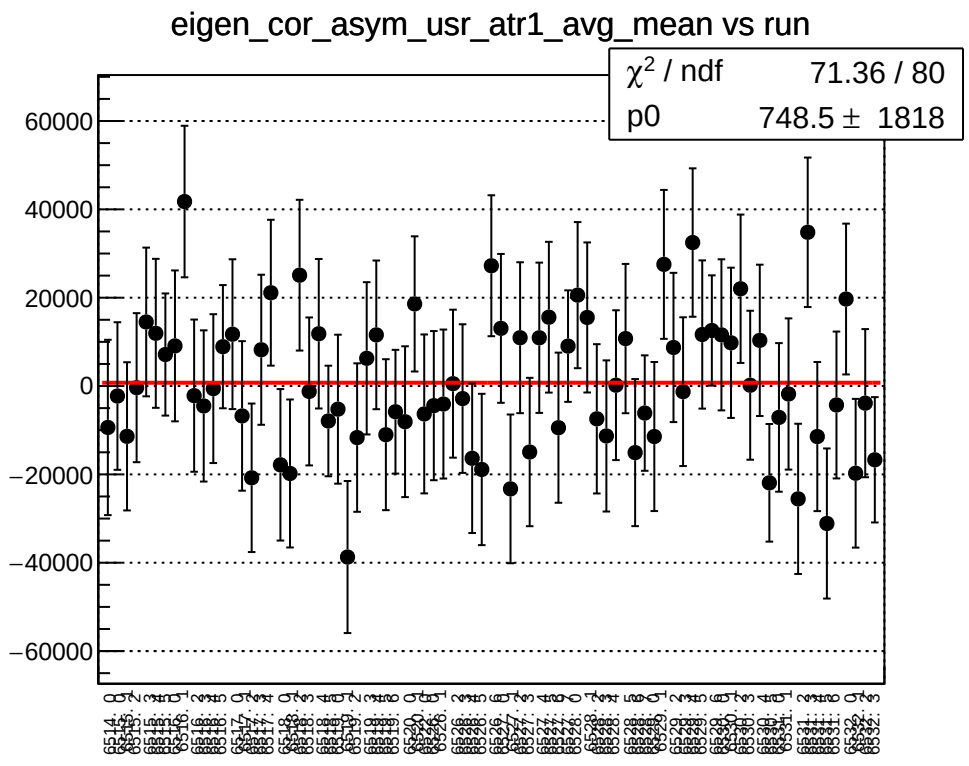

pull1D
Entries 81
Mean 0.0007158
Std Dev 0.9386
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

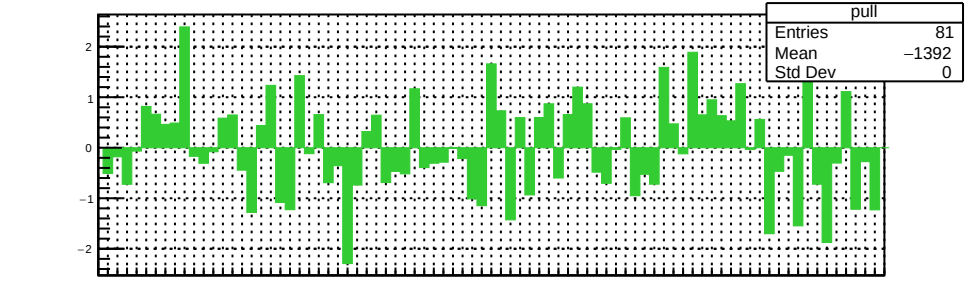

cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 118.3 / 80
p0 1606 ± 1.286
1640
1620
1600
1580
1560
1540

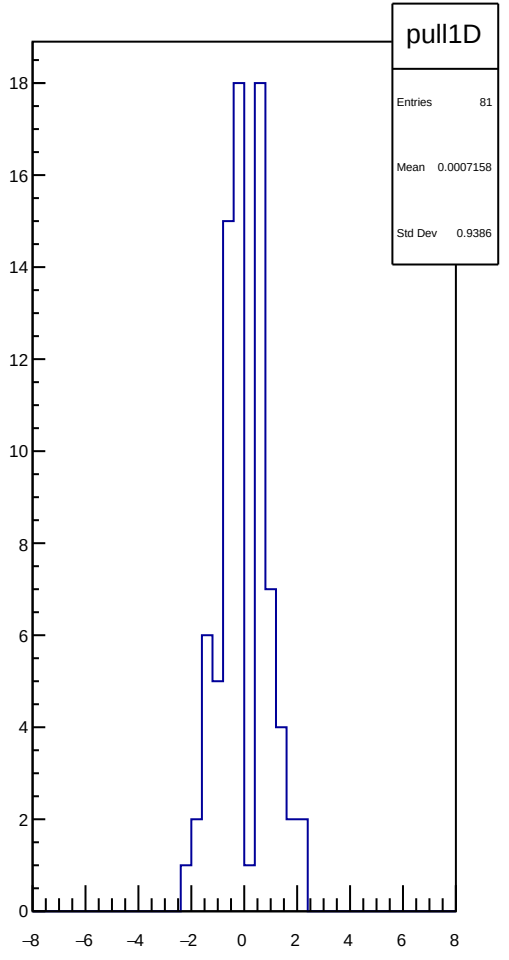

asym_usr_atr1_avg_cor_correction_mean vs run
χ² / ndf 90.2 / 80
p0 1308 ± 1400
pull
Entries 81
Mean −50.67
Std Dev 0

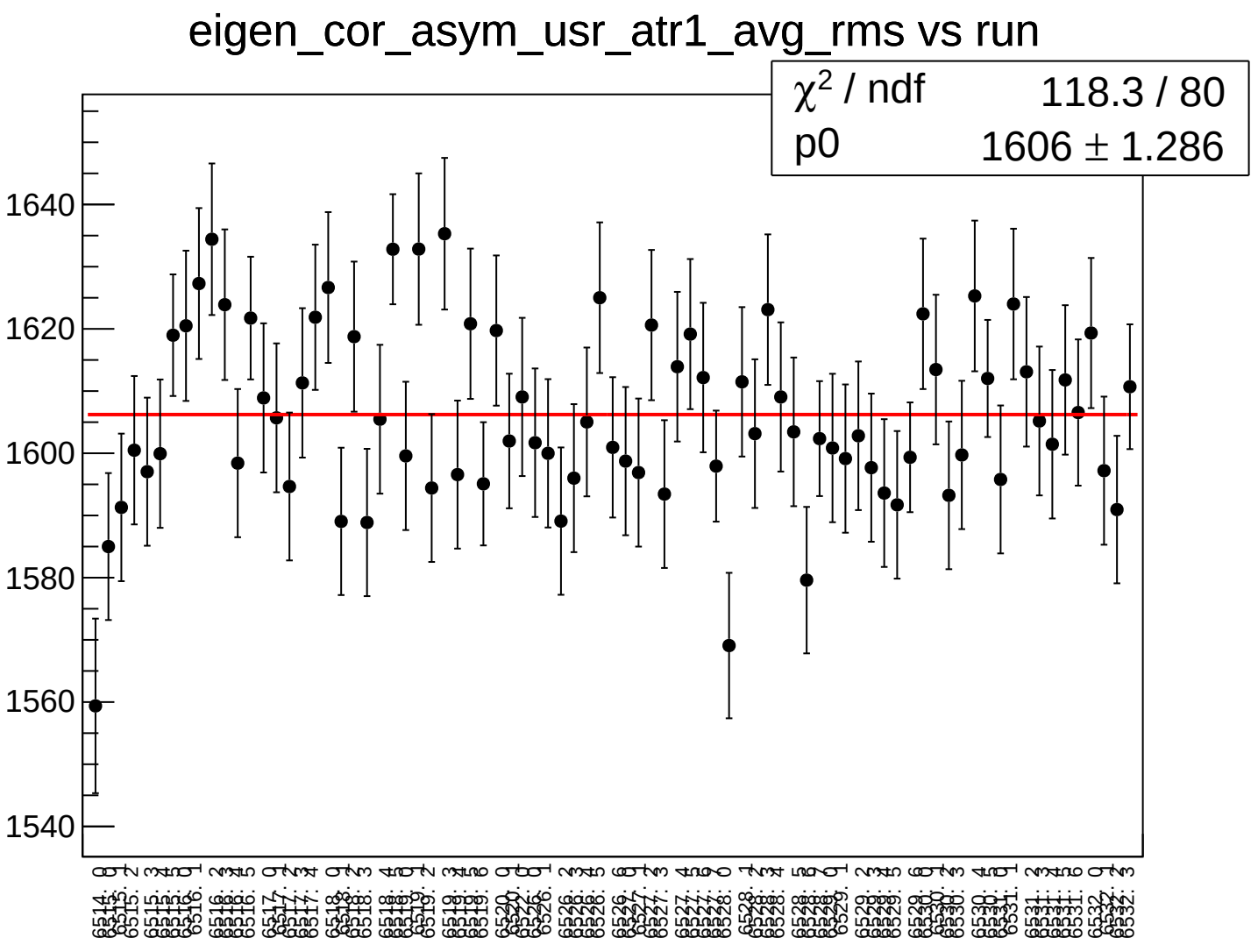

pull1D
Entries 81
Mean −0.01796
Std Dev 1.055

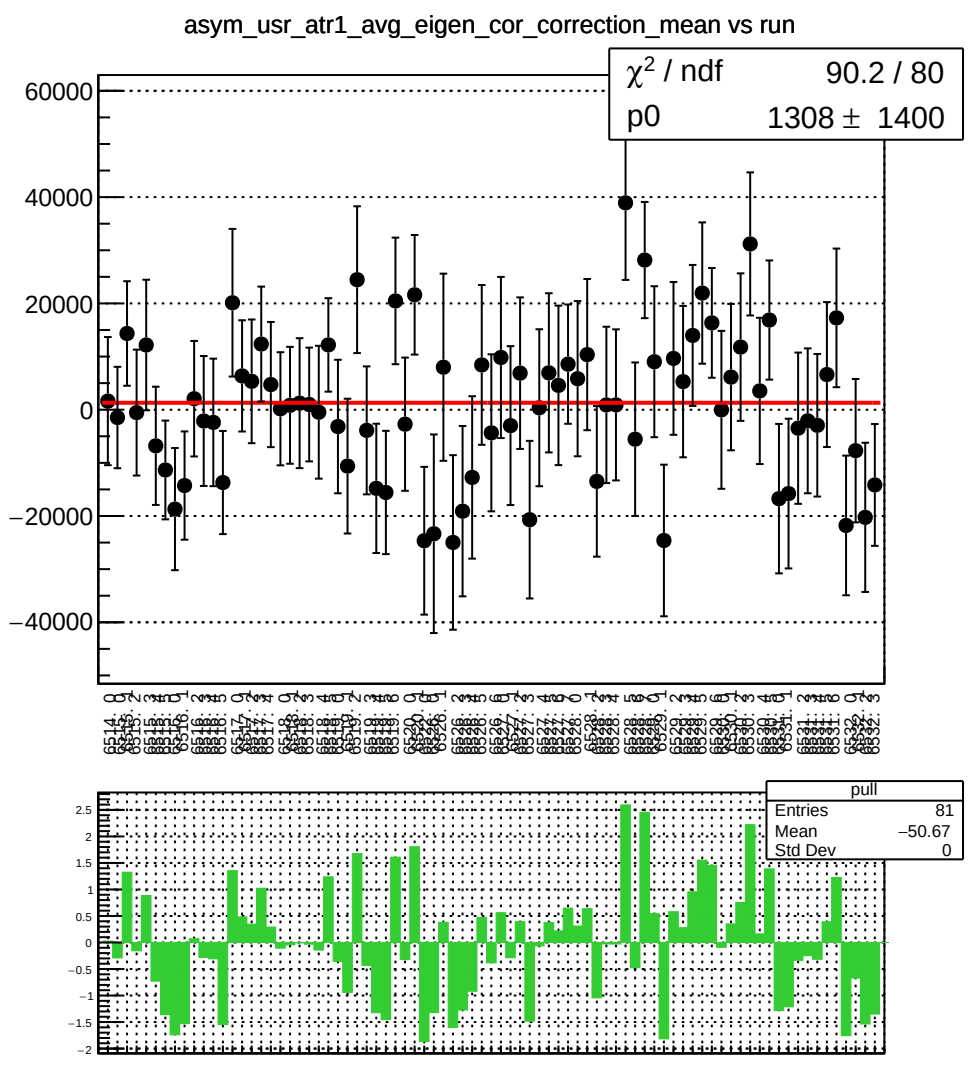

asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 2.667e+04 / 80
p0 1226 ± 0.9898
1800
1600
1400
1200
1000

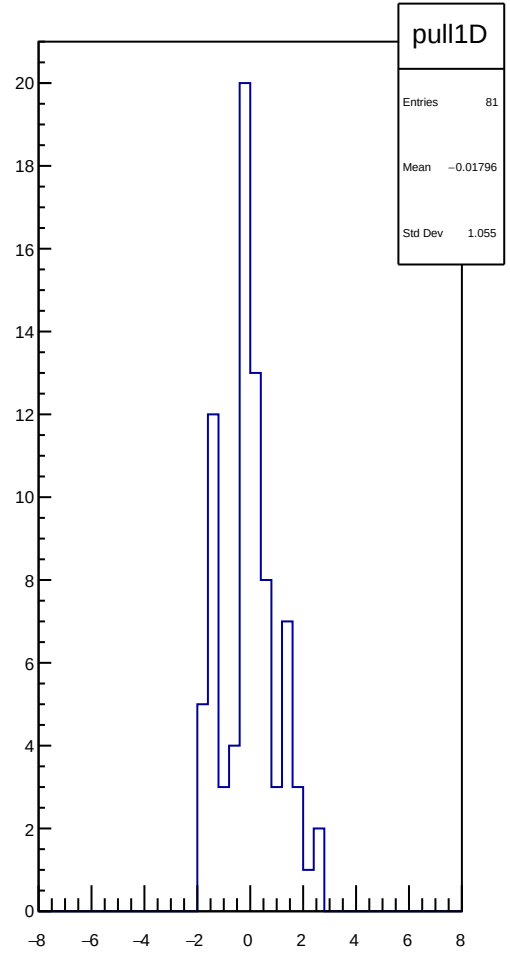

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 71.36 / 80
p0 748.5 ± 1818
60000
40000
20000
0
−20000
−40000
−60000

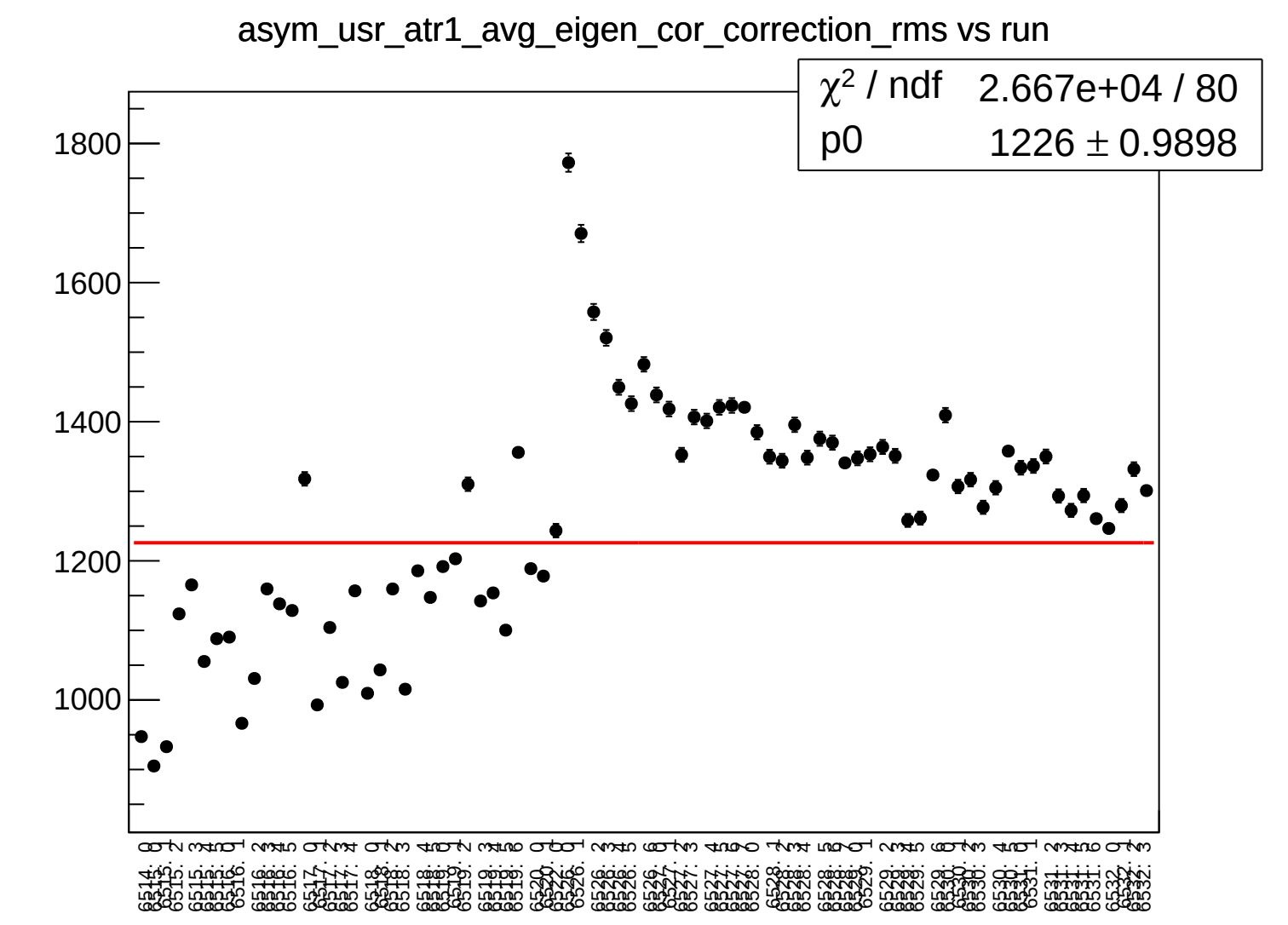

pull
Entries 81
Mean −1392
Std Dev 0
2
1
0
−1
−2

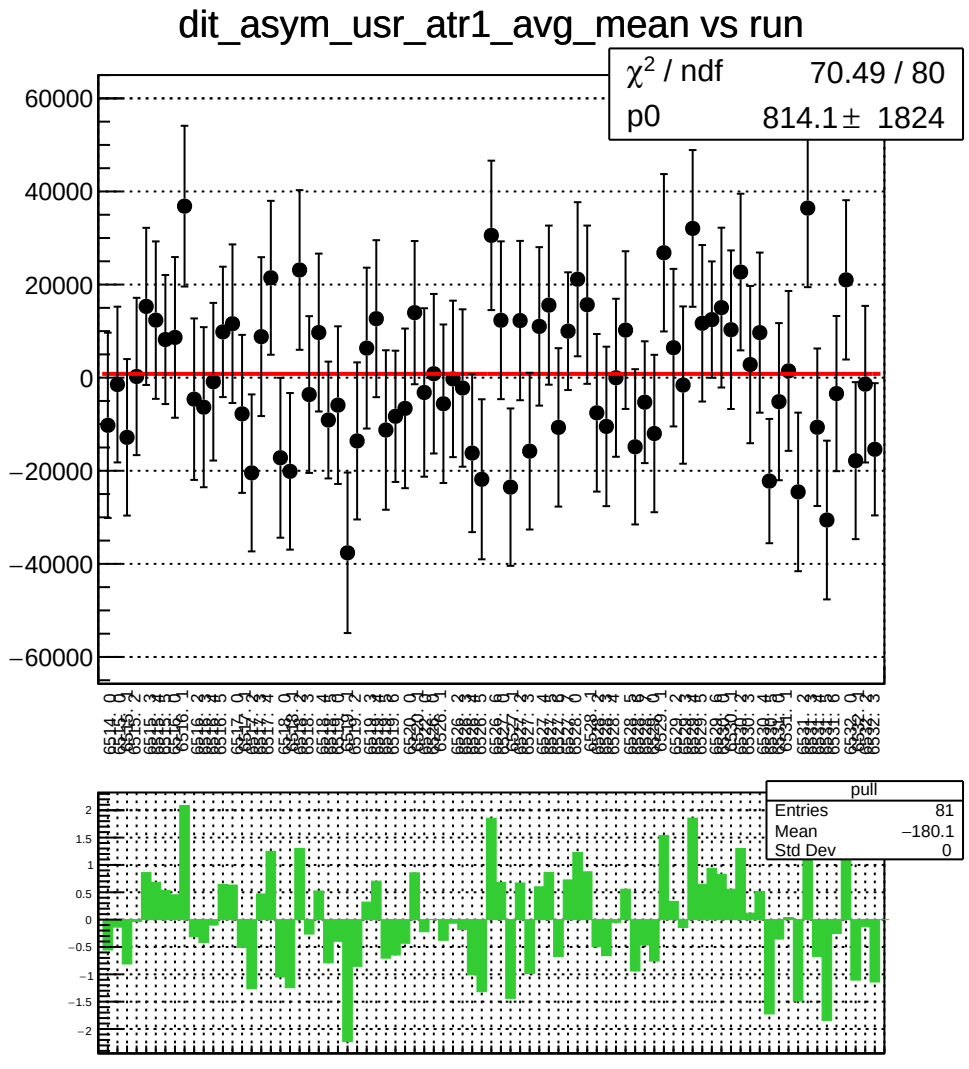

pull1D
Entries 81
Mean 0.0007158
Std Dev 0.9386
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

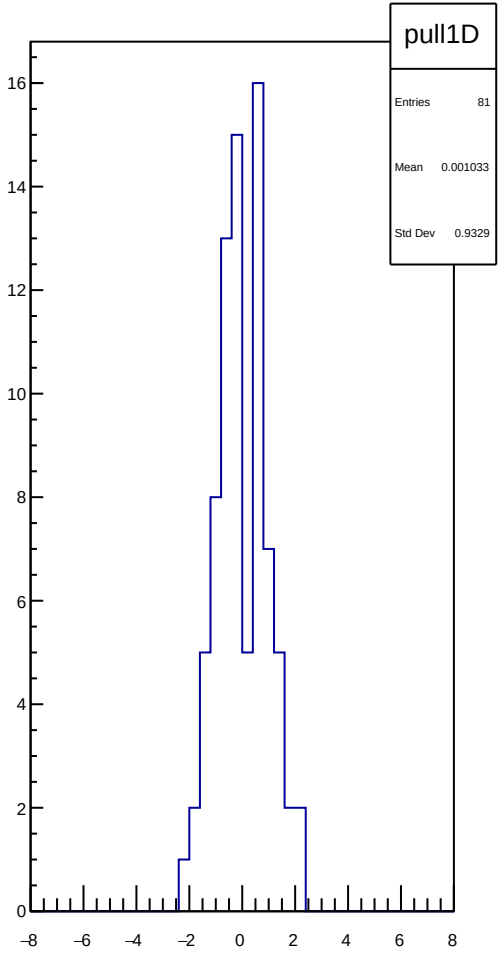

eigen_cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 118.3 / 80
p0 1606 ± 1.286
1640
1620
1600
1580
1560
1540

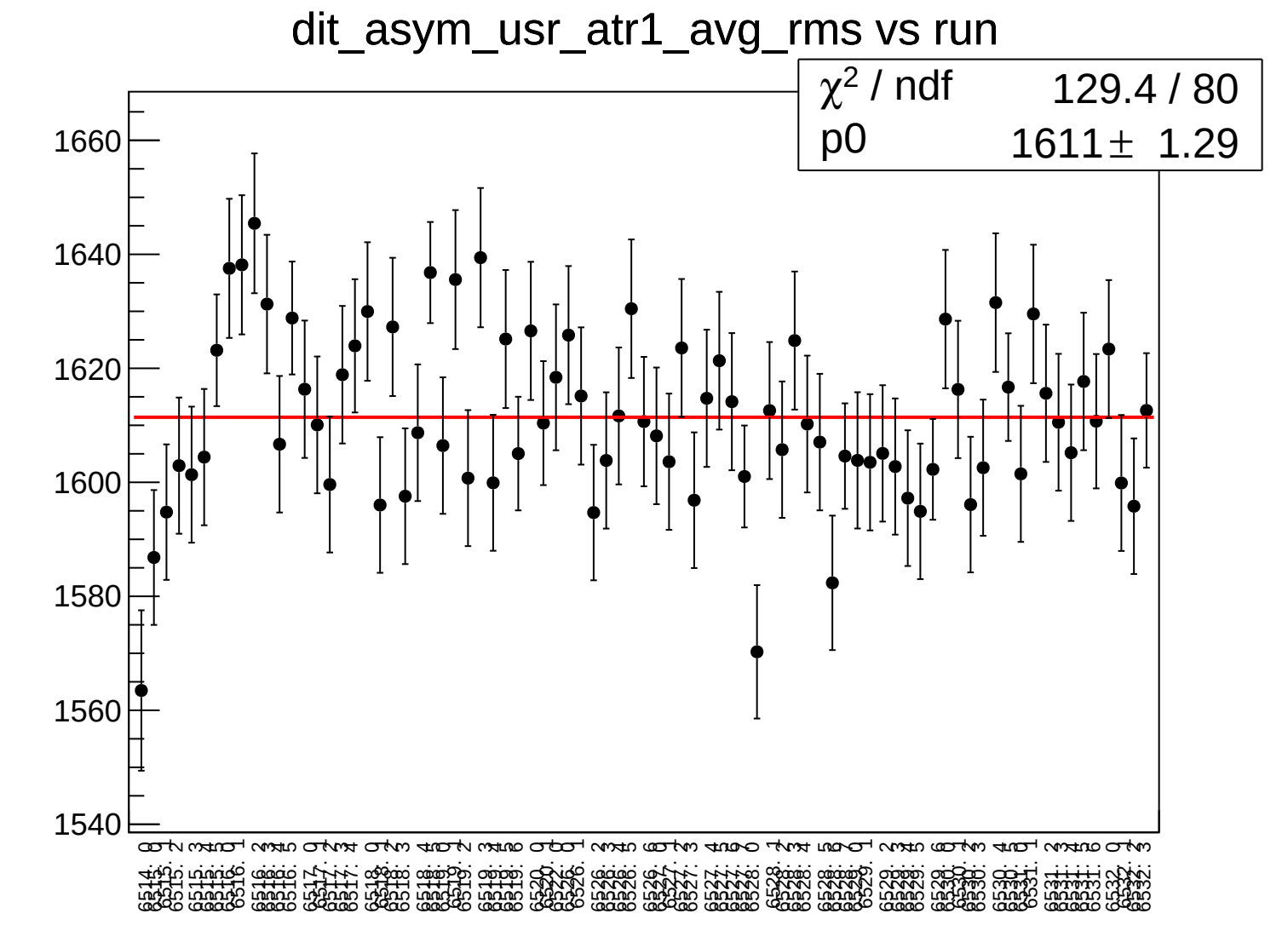

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
χ² / ndf 90.2 / 80
p0 1308 ± 1400
pull
Entries 81
Mean −50.67
Std Dev 0

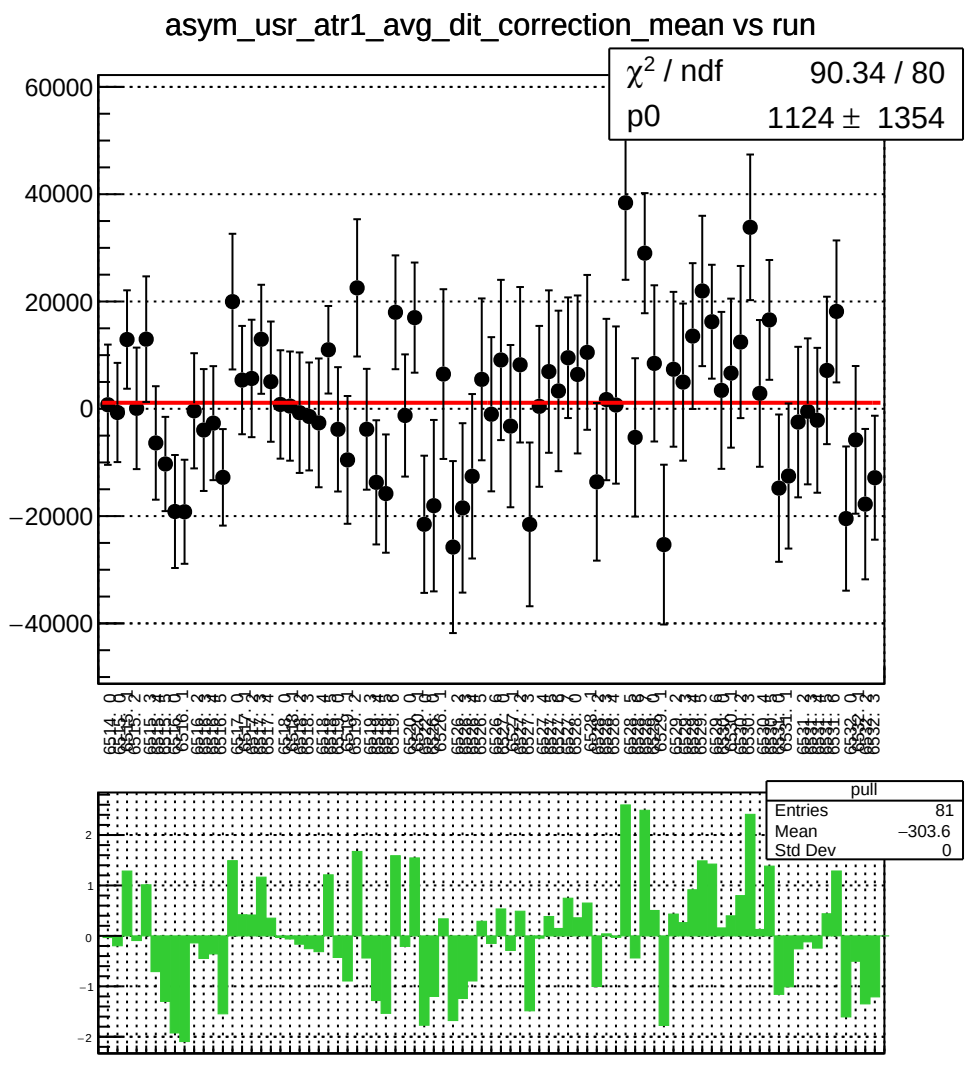

pull1D
Entries 81
Mean −0.01796
Std Dev 1.055

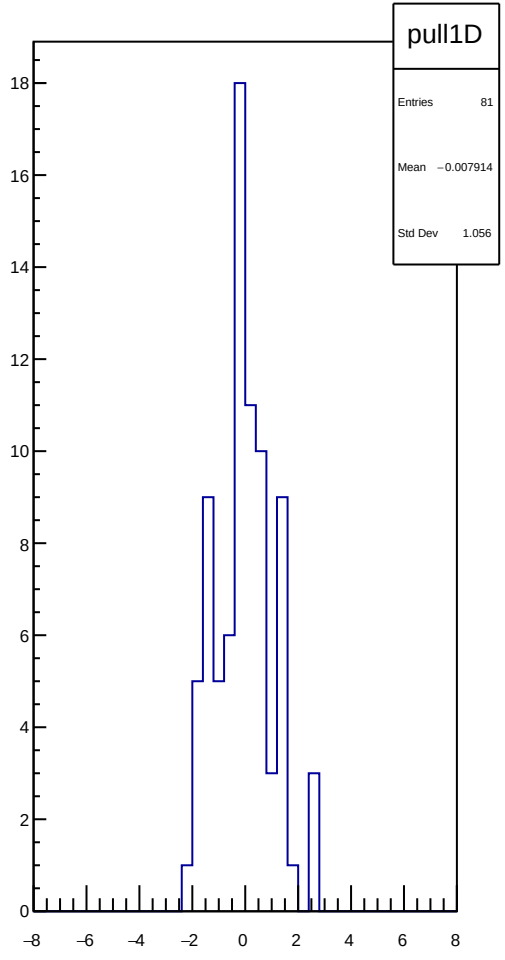

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.667e+04 / 80
p0 1226 ± 0.9898
1800
1600
1400
1200
1000

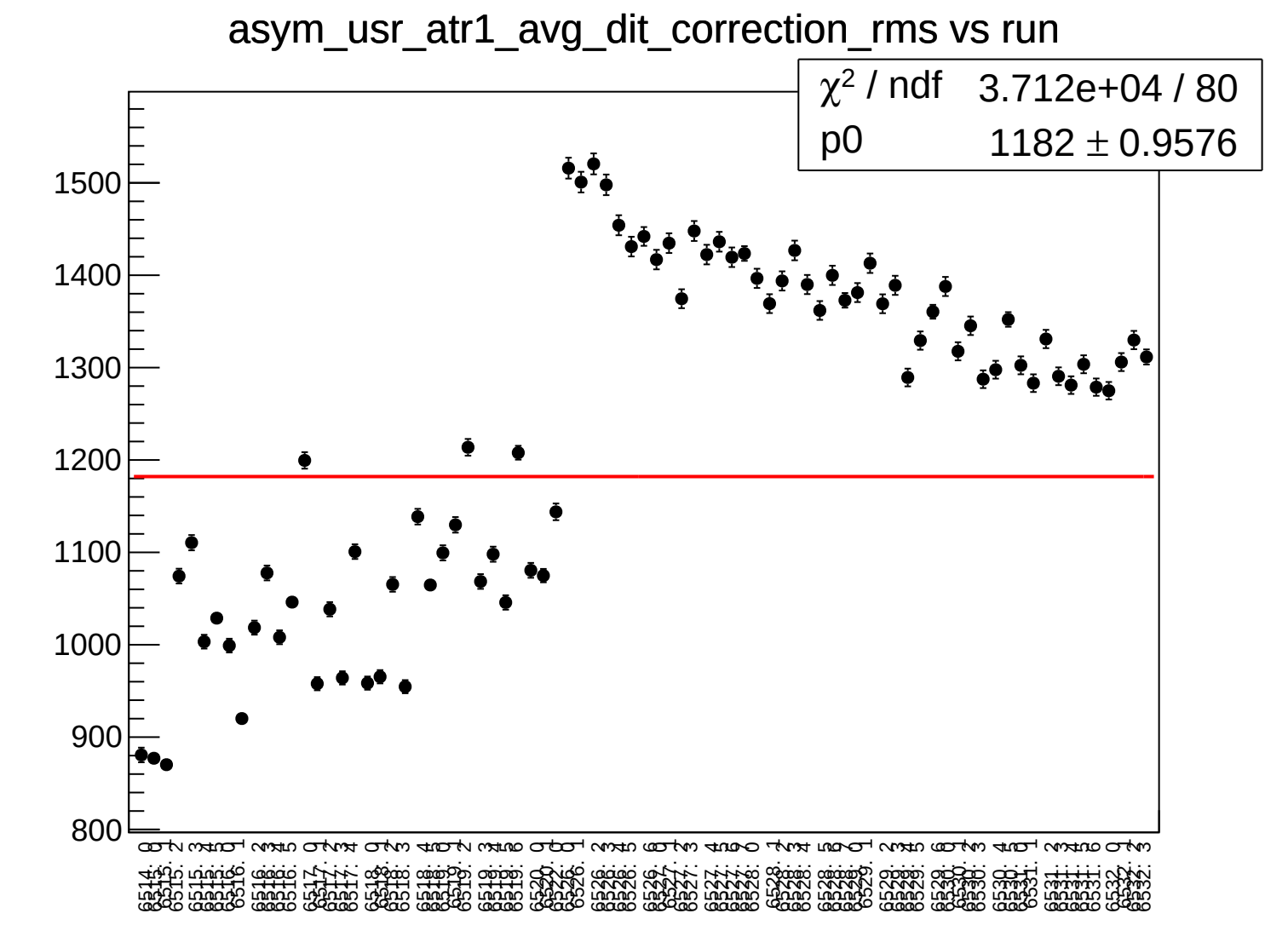

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 70.49 / 80
p0 814.1 ± 1824
pull
Entries 81
Mean −180.1
Std Dev 0

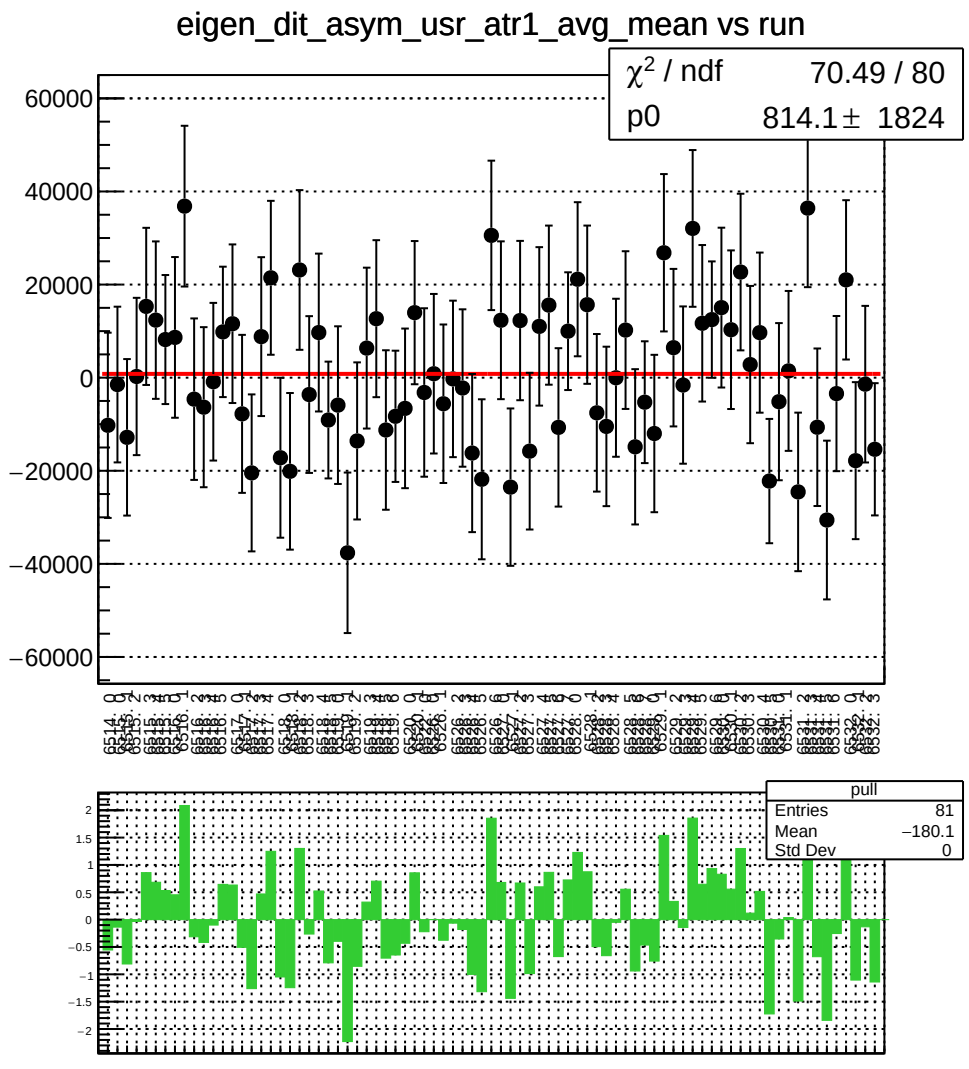

pull1D
Entries 81
Mean 0.001033
Std Dev 0.9329

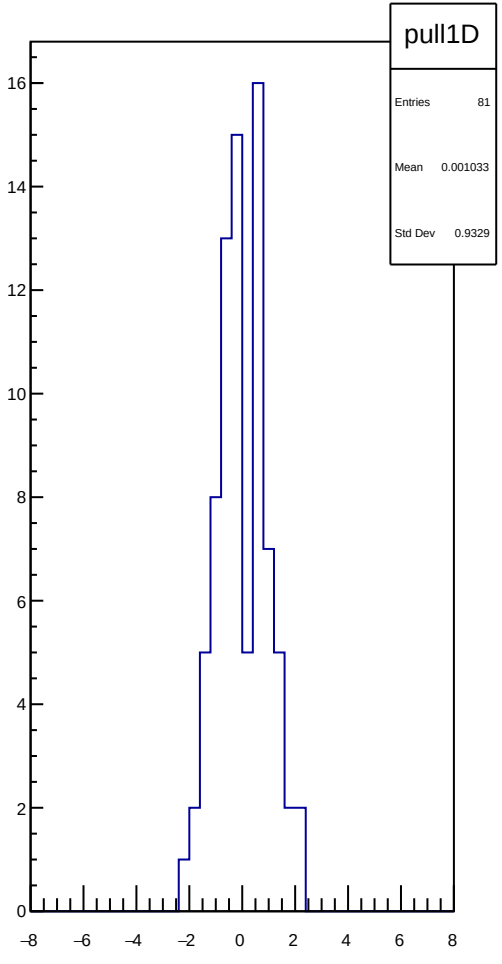

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 129.4 / 80
p0 1611 ± 1.29
1660
1640
1620
1600
1580
1560
1540

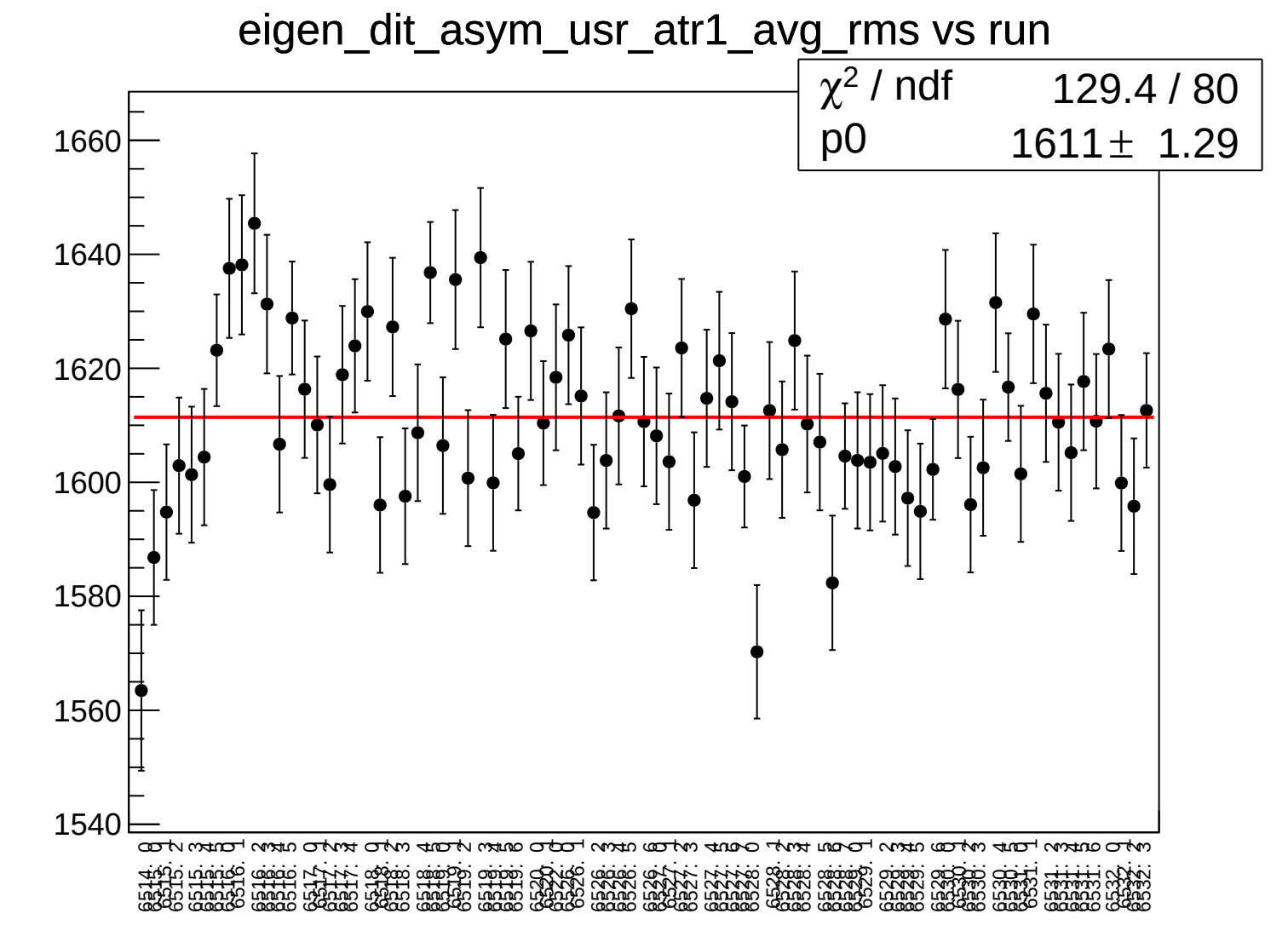

asym_usr_atr1_avg_dit_correction_mean vs run
χ² / ndf 90.34 / 80
p0 1124 ± 1354
60000
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −303.6
Std Dev 0
2
1
0
−1
−2

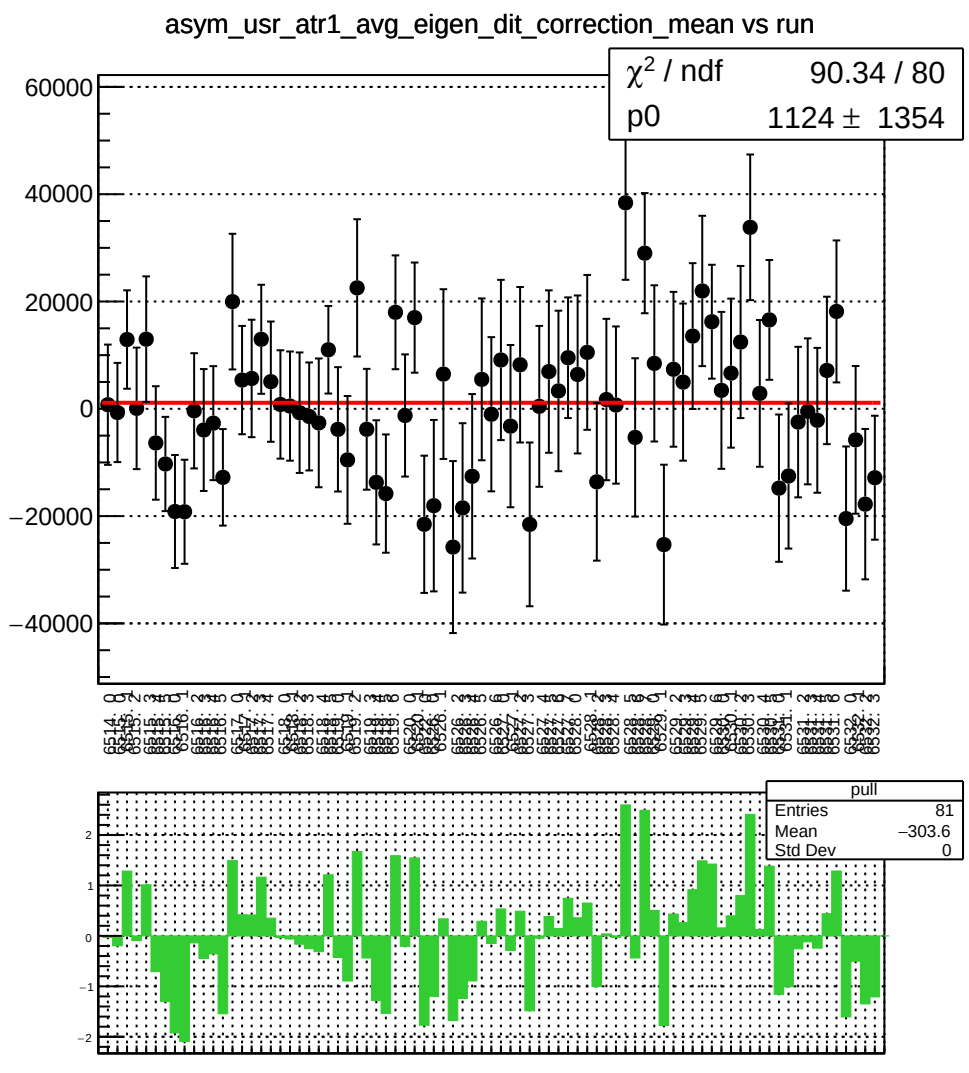

pull1D
Entries 81
Mean −0.007914
Std Dev 1.056
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

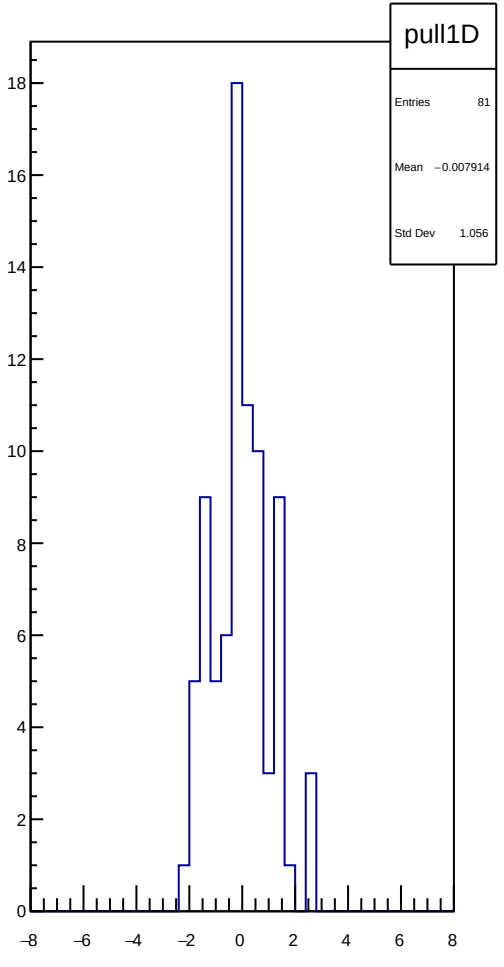

asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 3.712e+04 / 80
p0 1182 ± 0.9576
1500
1400
1300
1200
1100
1000
900
800

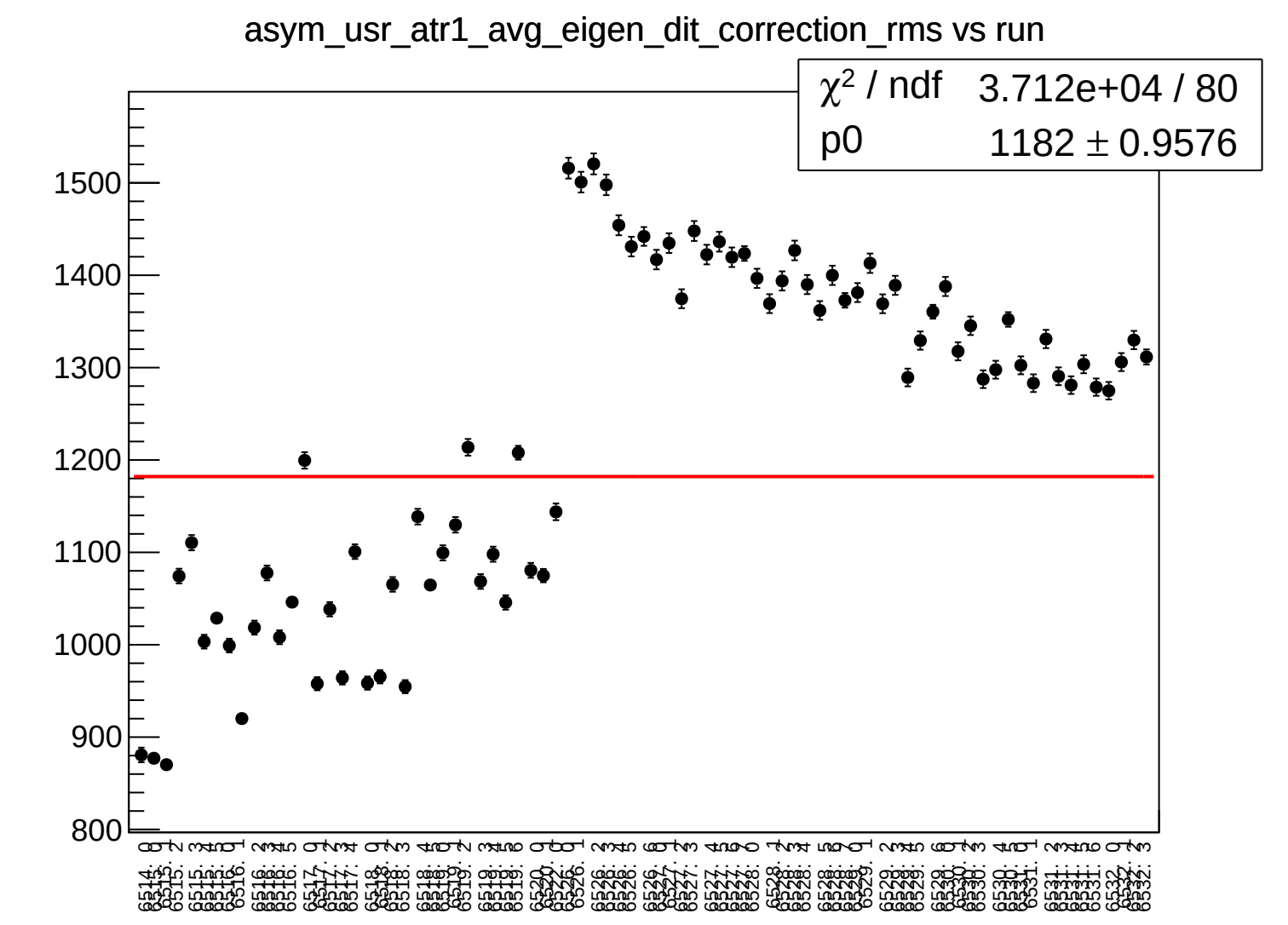

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 70.49 / 80
p0 814.1 ± 1824
pull
Entries 81
Mean −180.1
Std Dev 0

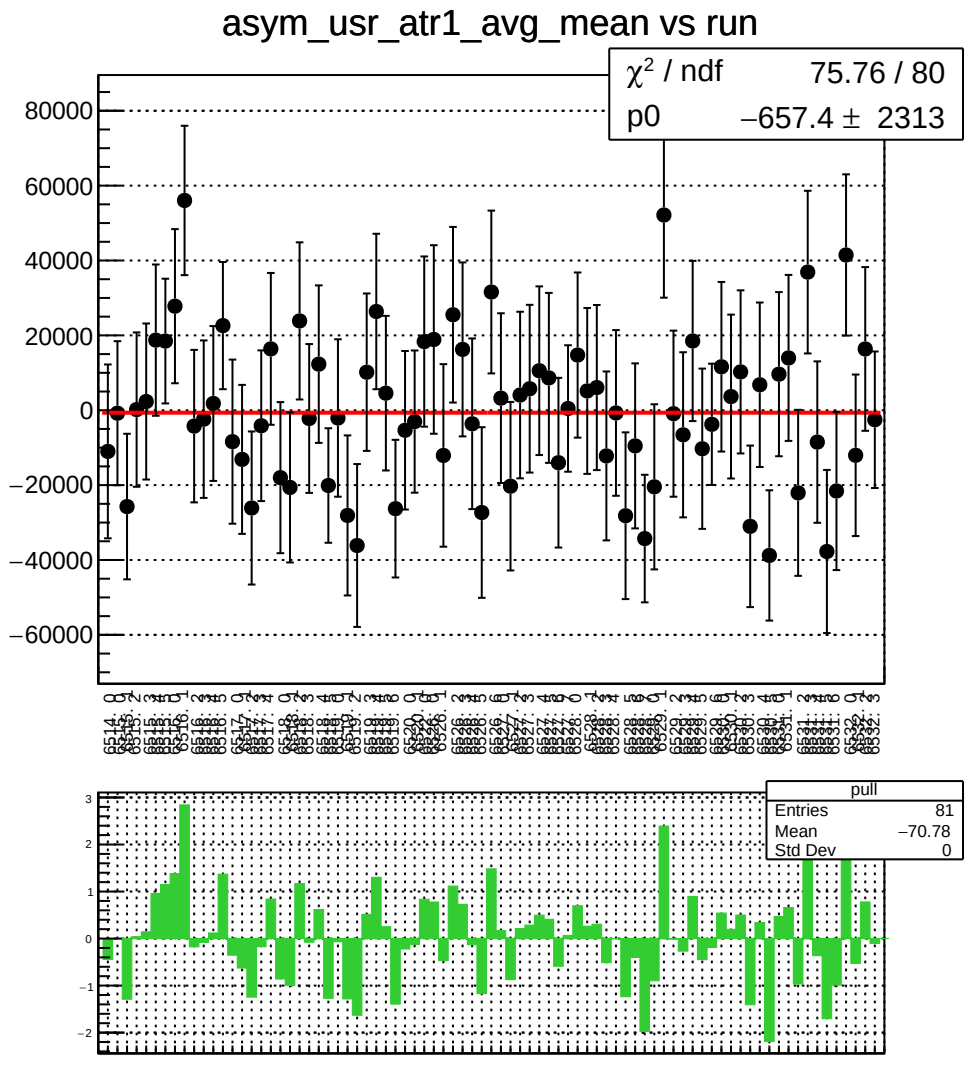

pull1D
Entries 81
Mean 0.001033
Std Dev 0.9329

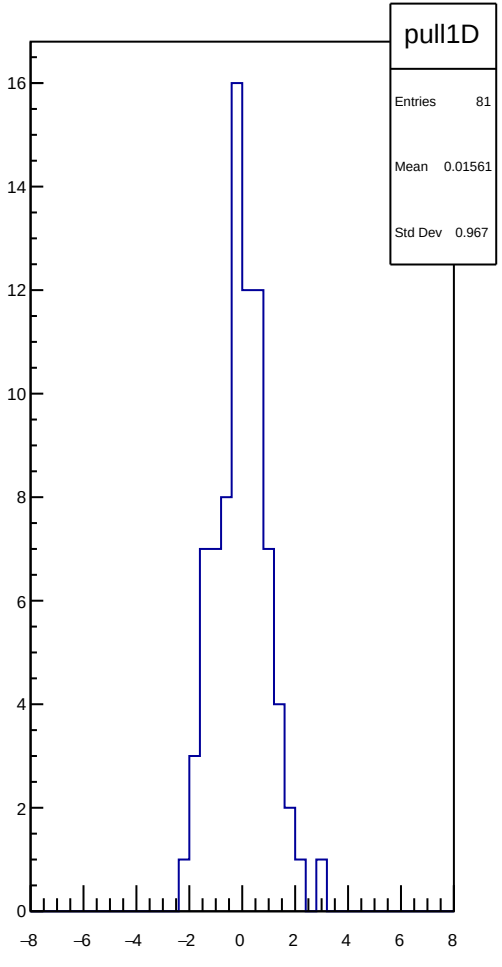

eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 129.4 / 80
p0 1611 ± 1.29
1660
1640
1620
1600
1580
1560
1540

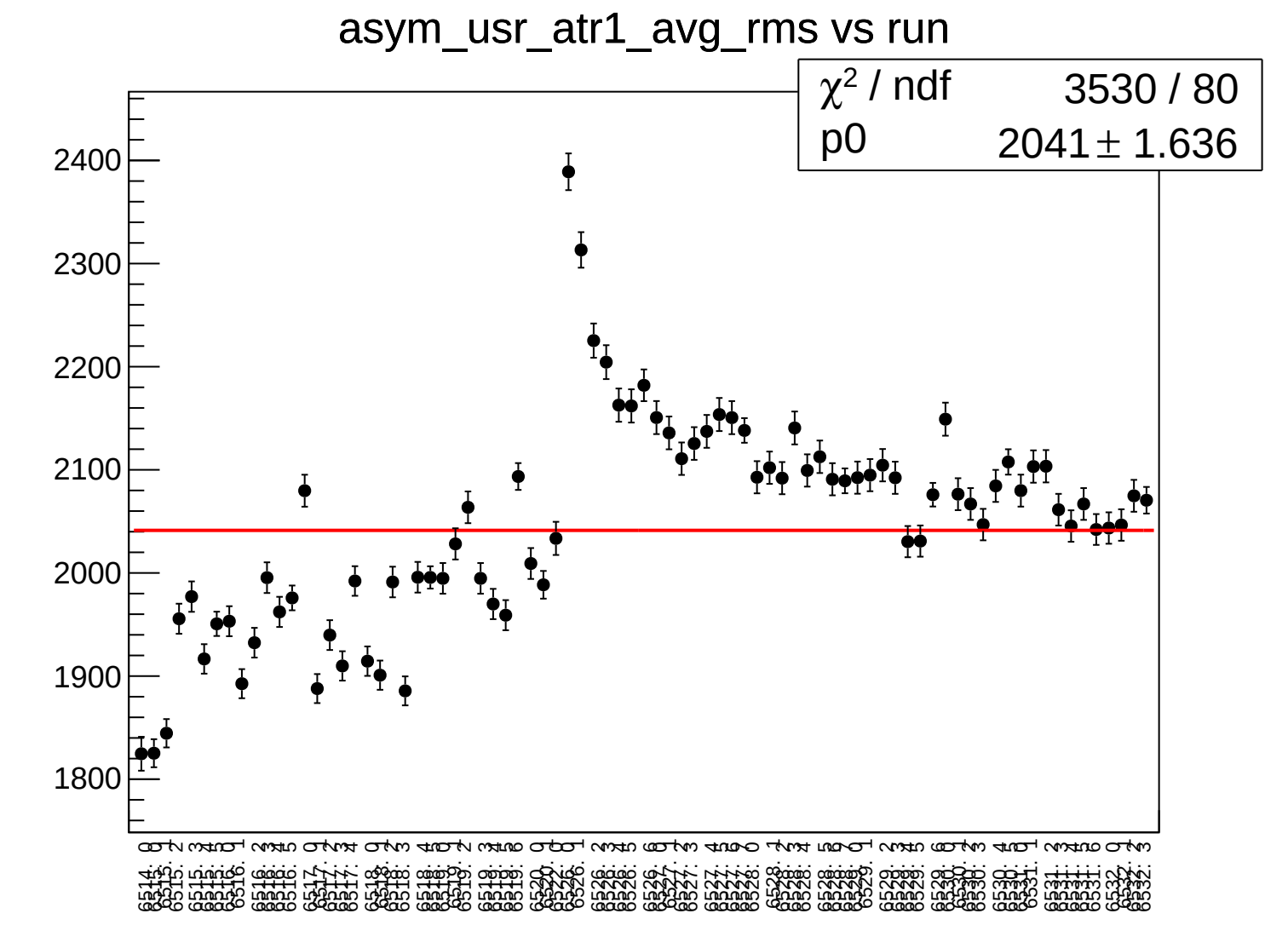

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
χ² / ndf 90.34 / 80
p0 1124 ± 1354
pull
Entries 81
Mean −303.6
Std Dev 0

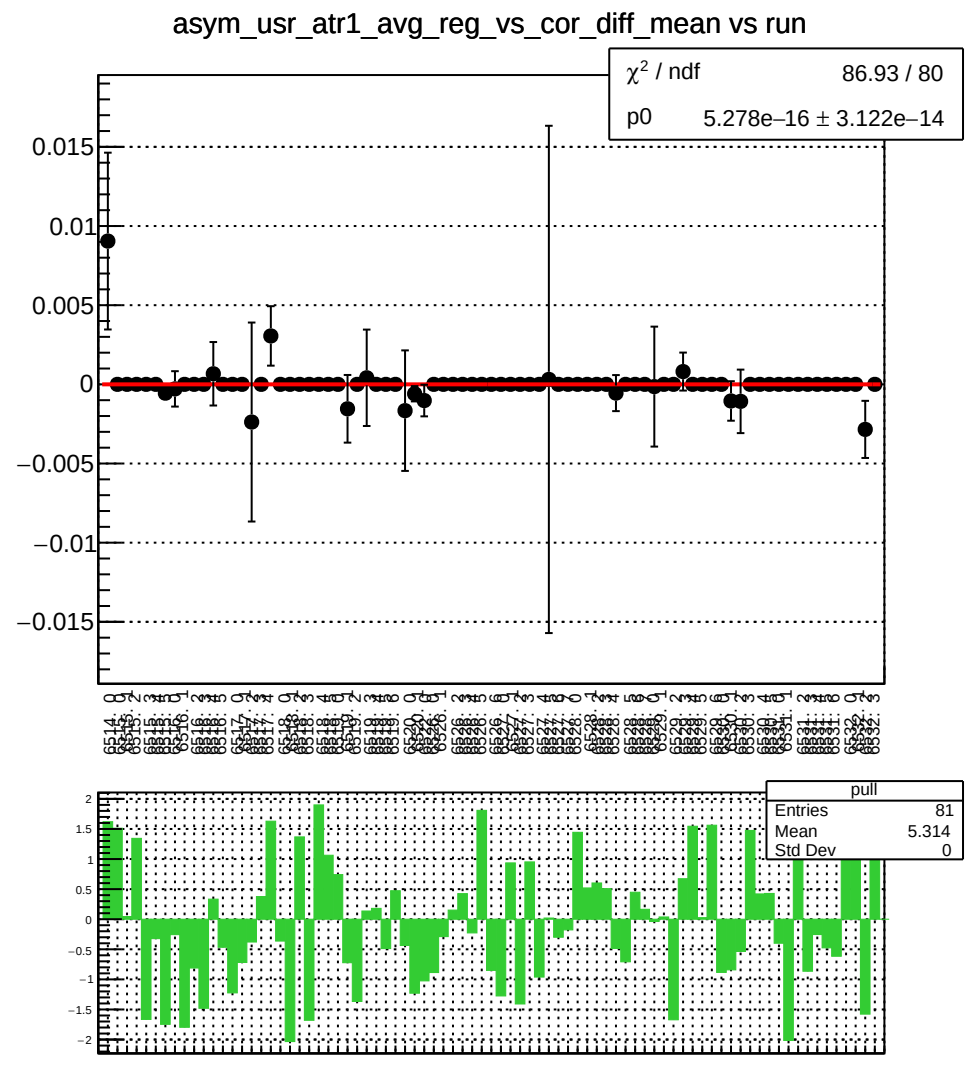

pull1D
Entries 81
Mean −0.007914
Std Dev 1.056

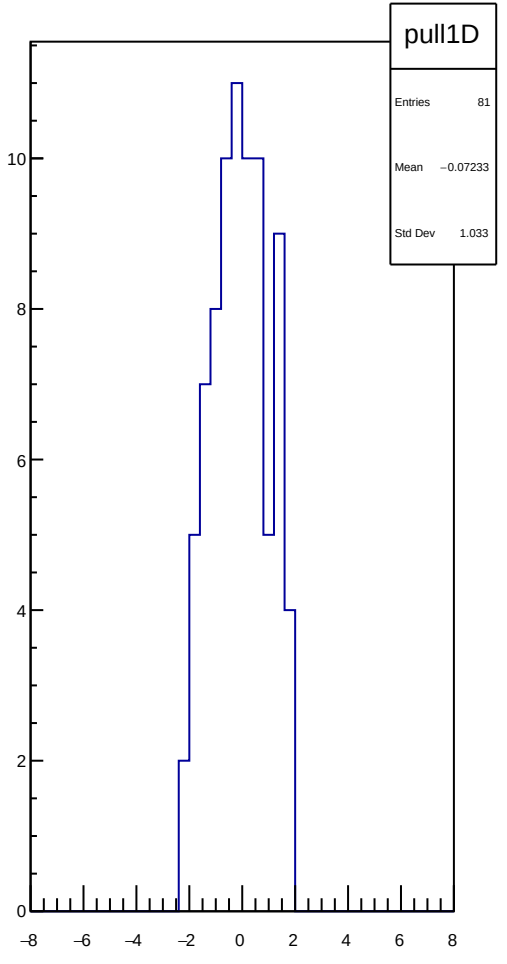

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.712e+04 / 80
p0 1182 ± 0.9576
1500
1400
1300
1200
1100
1000
900
800

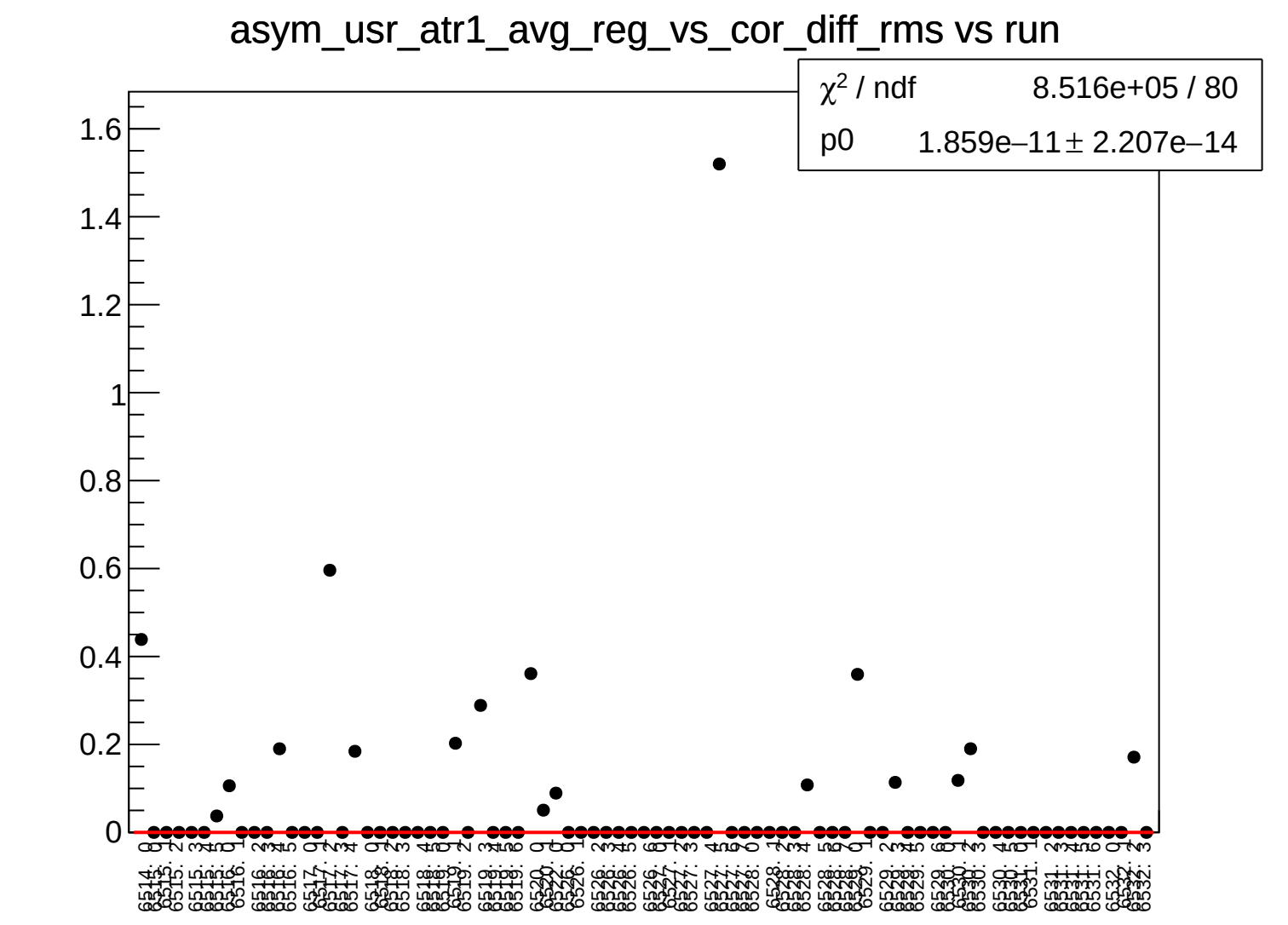

asym_usr_atr1_avg_mean vs run
χ² / ndf 75.76 / 80
p0 −657.4 ± 2313
pull
Entries 81
Mean −70.78
Std Dev 0

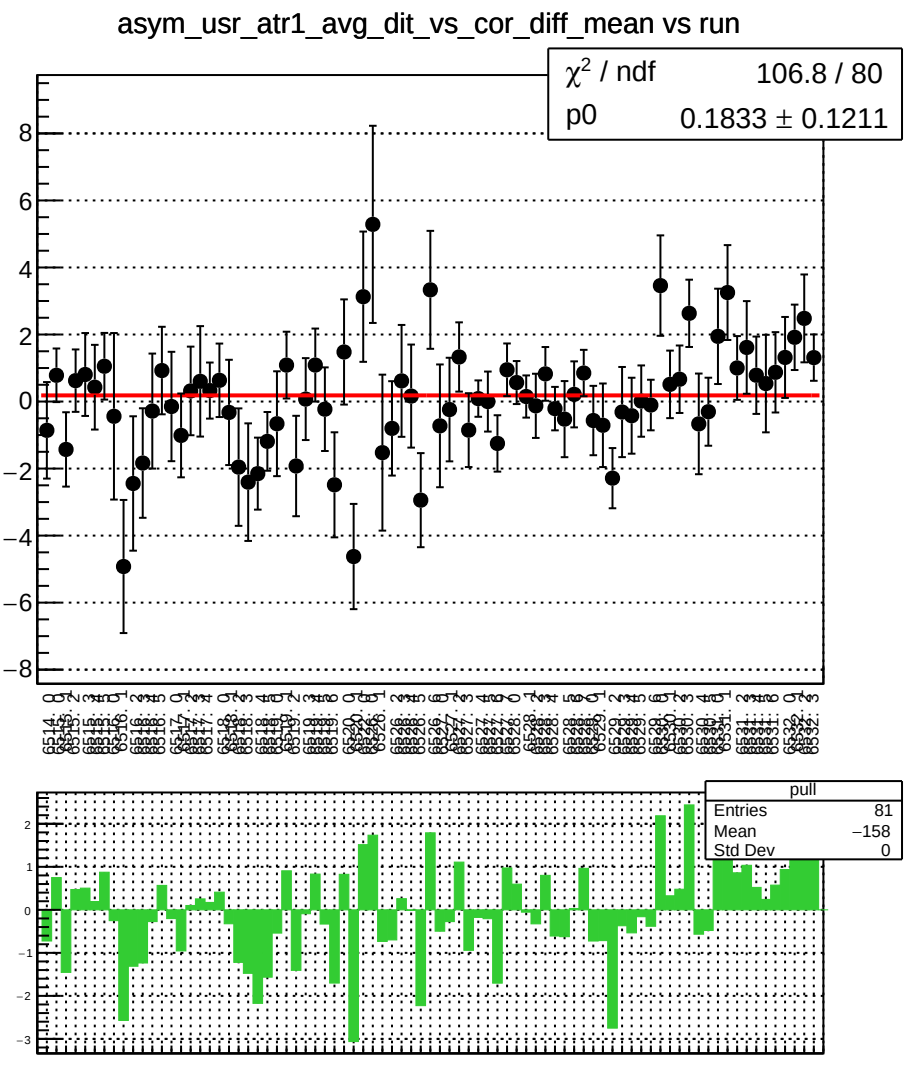

pull1D
Entries 81
Mean 0.01561
Std Dev 0.967

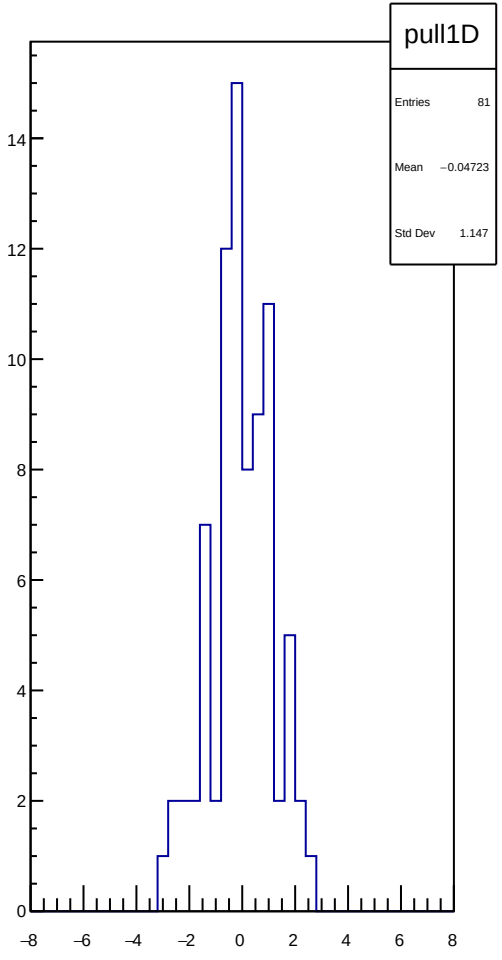

asym_usr_atr1_avg_rms vs run
χ² / ndf 3530 / 80
p0 2041 ± 1.636
2400
2300
2200
2100
2000
1900
1800

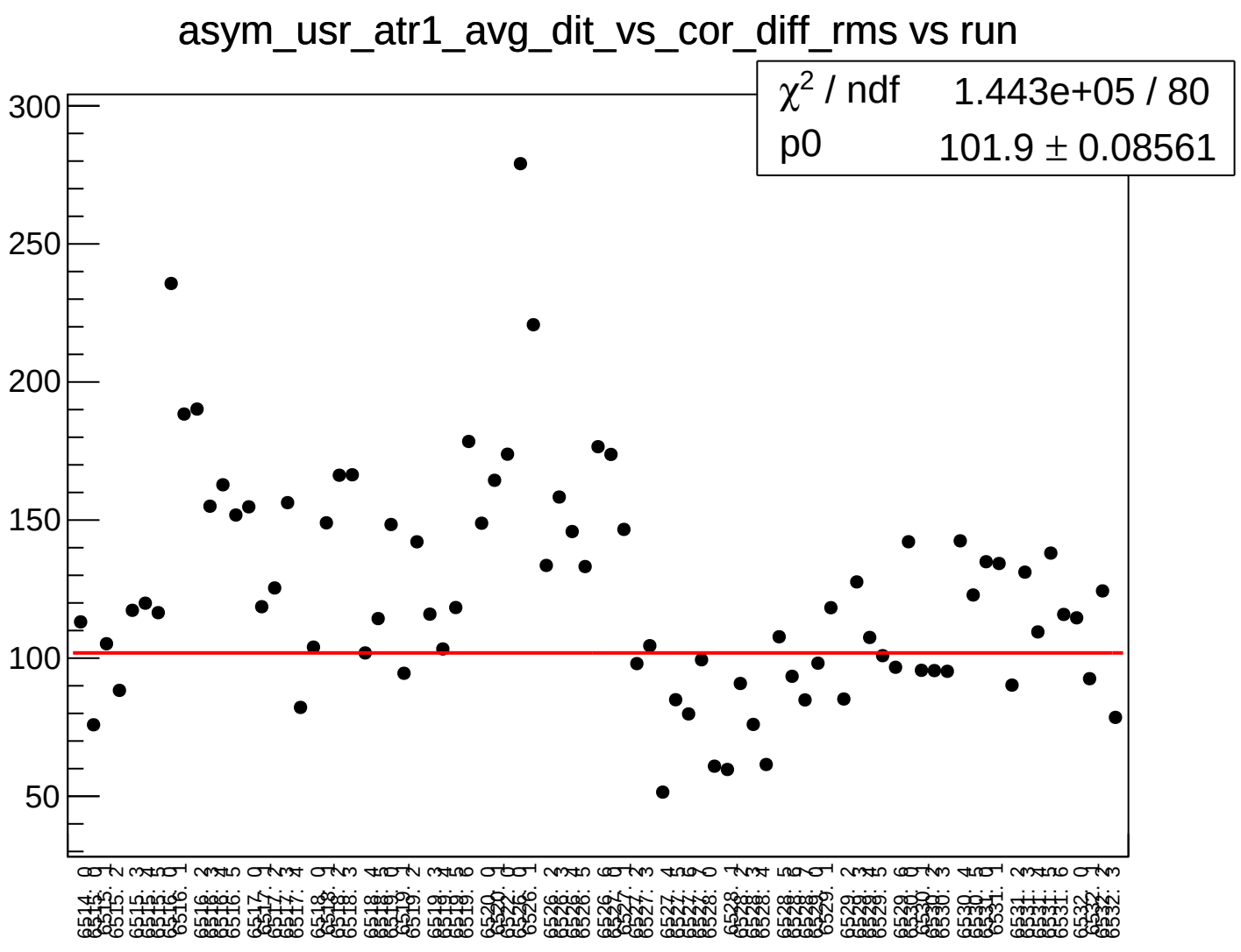

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 86.93 / 80
p0 5.278e−16 ± 3.122e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 81
Mean 5.314
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

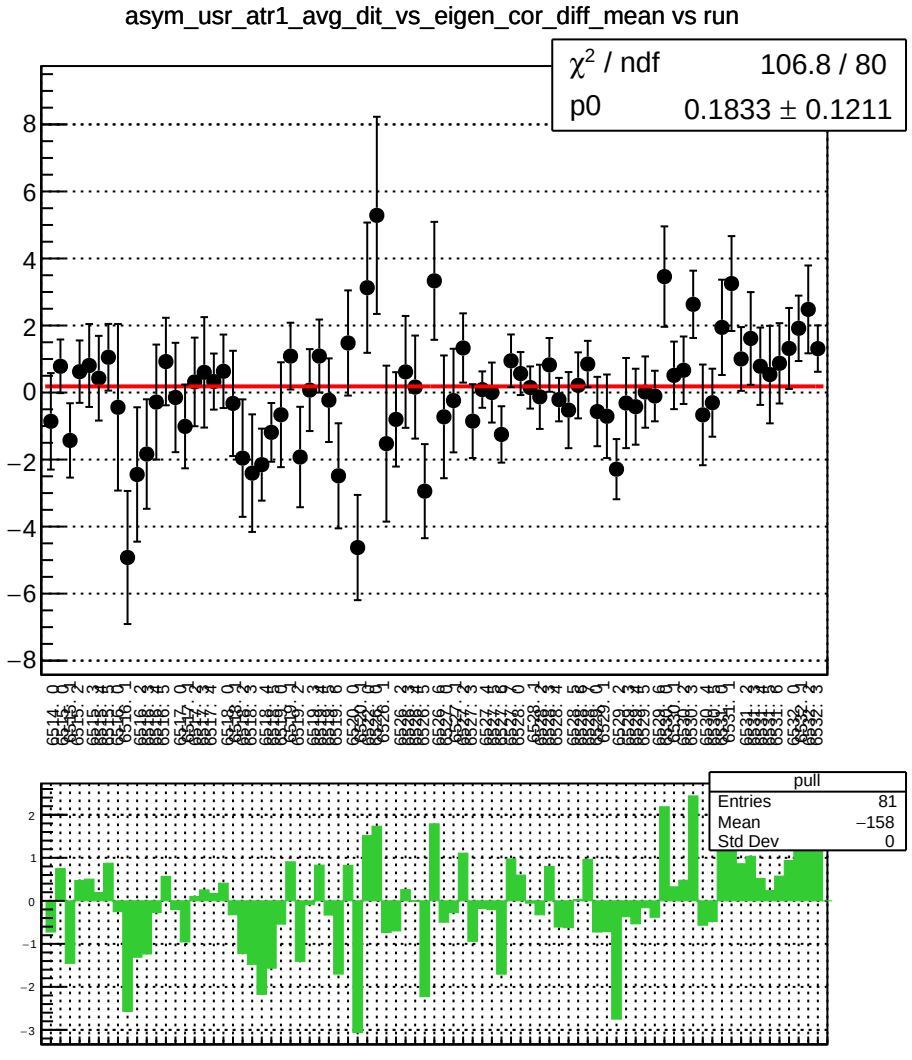

pull1D
Entries 81
Mean −0.07233
Std Dev 1.033
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

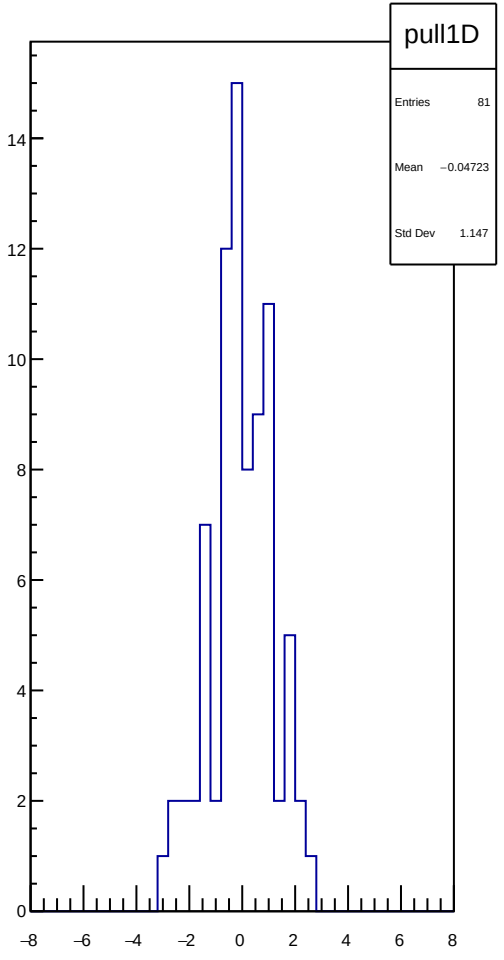

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.516e+05 / 80
p0 1.859e−11 ± 2.207e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

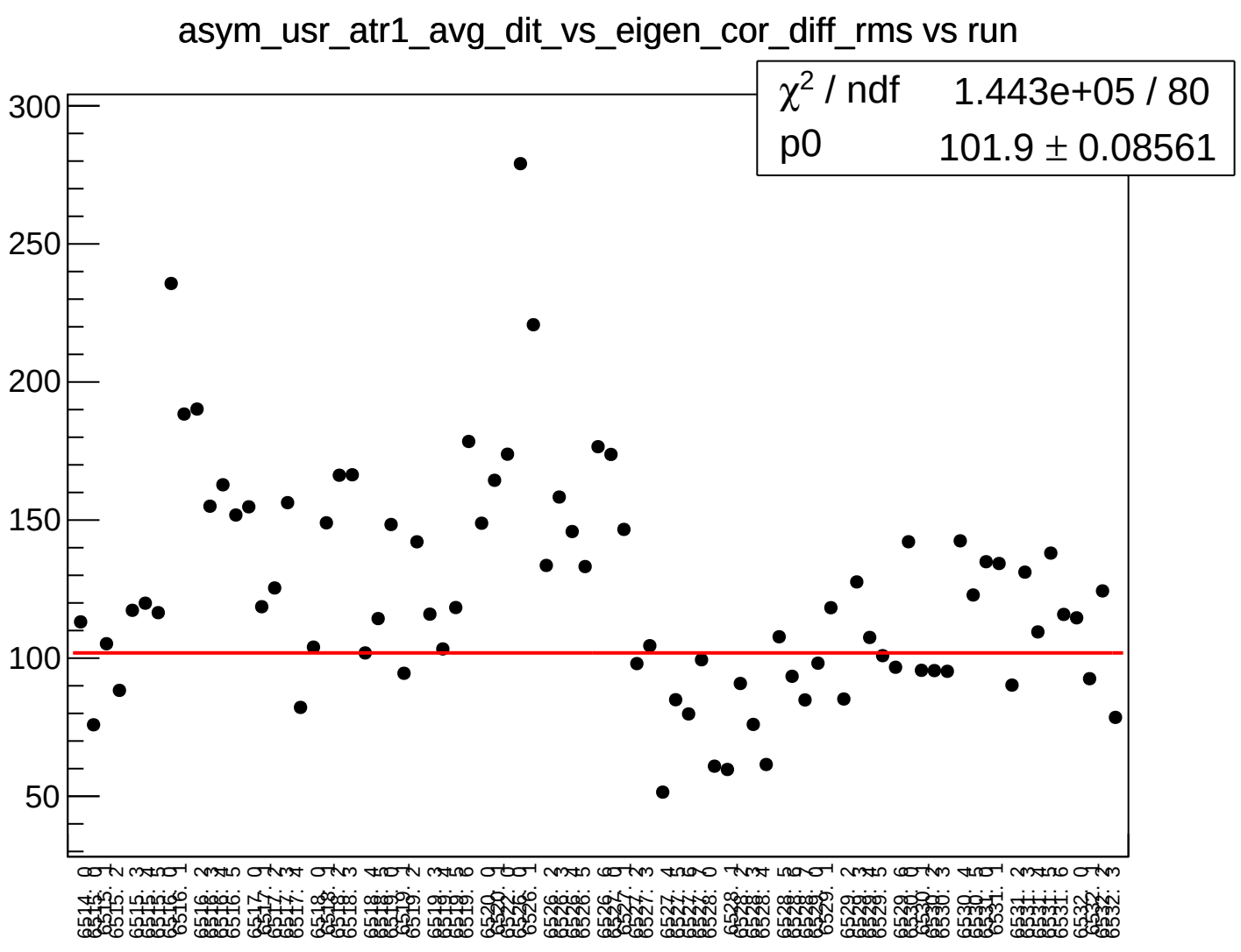

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 106.8 / 80
p0 0.1833 ± 0.1211
pull
Entries 81
Mean −158
Std Dev 0

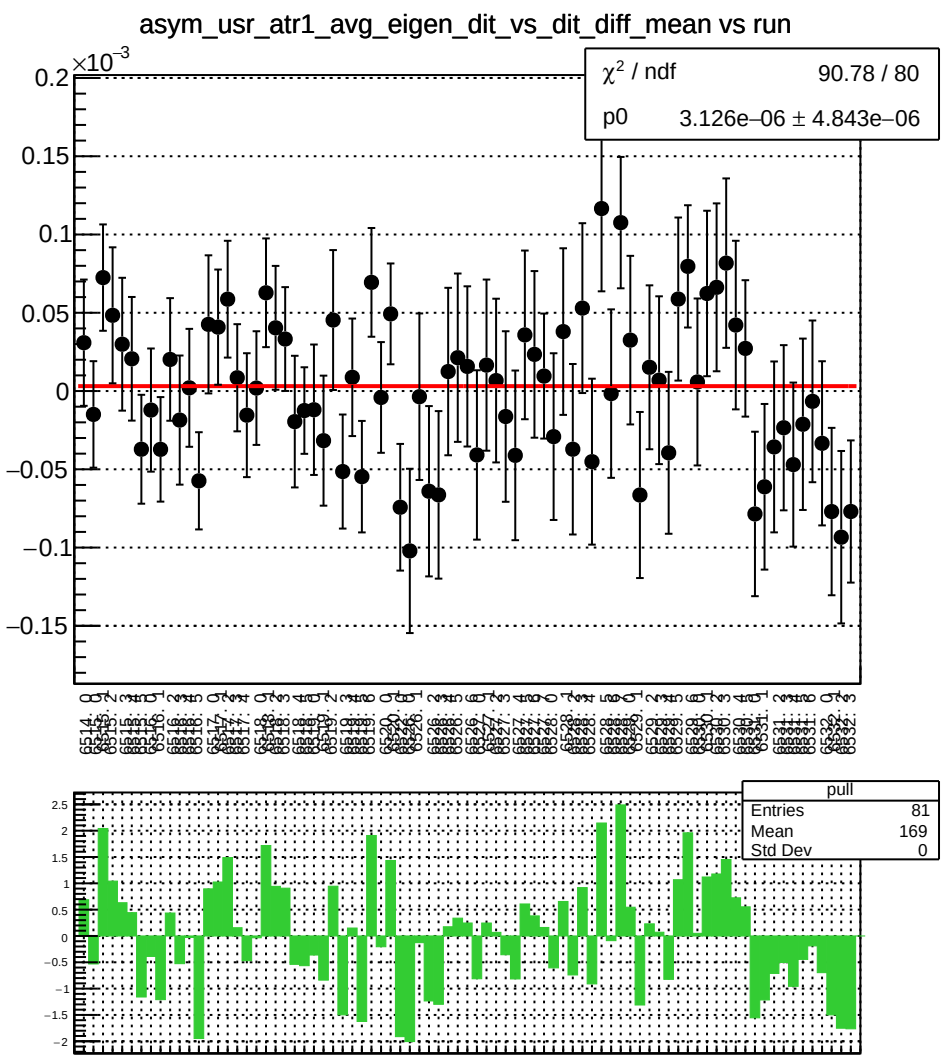

pull1D
Entries 81
Mean −0.04723
Std Dev 1.147

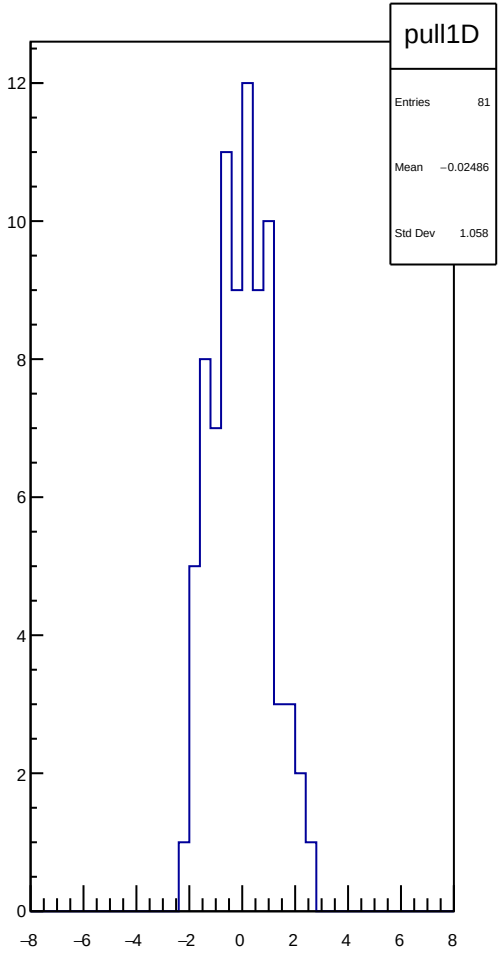

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.443e+05 / 80
p0 101.9 ± 0.08561
300
250
200
150
100
50

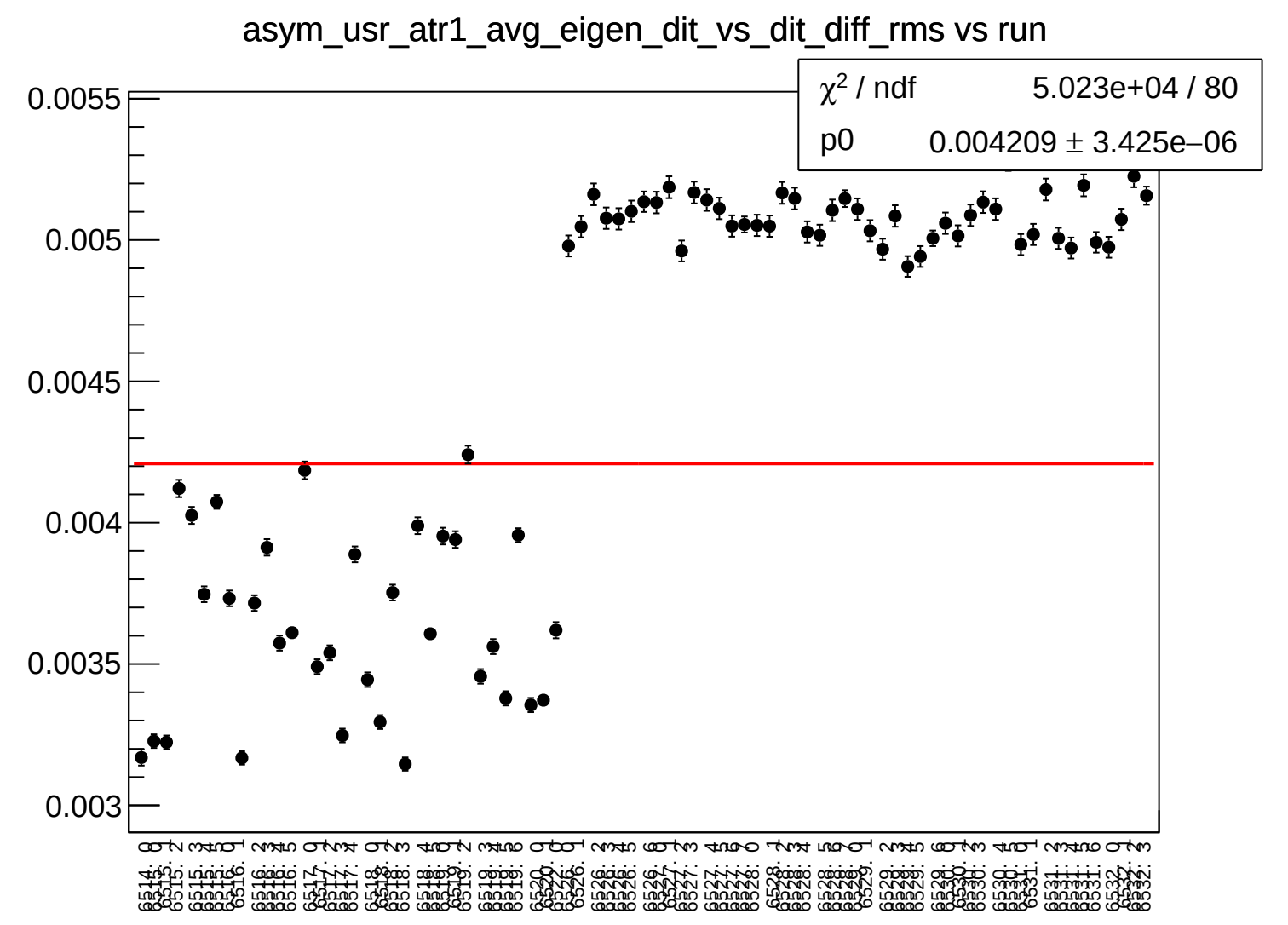

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.8 / 80
p0 0.1833 ± 0.1211
pull
Entries 81
Mean −158
Std Dev 0

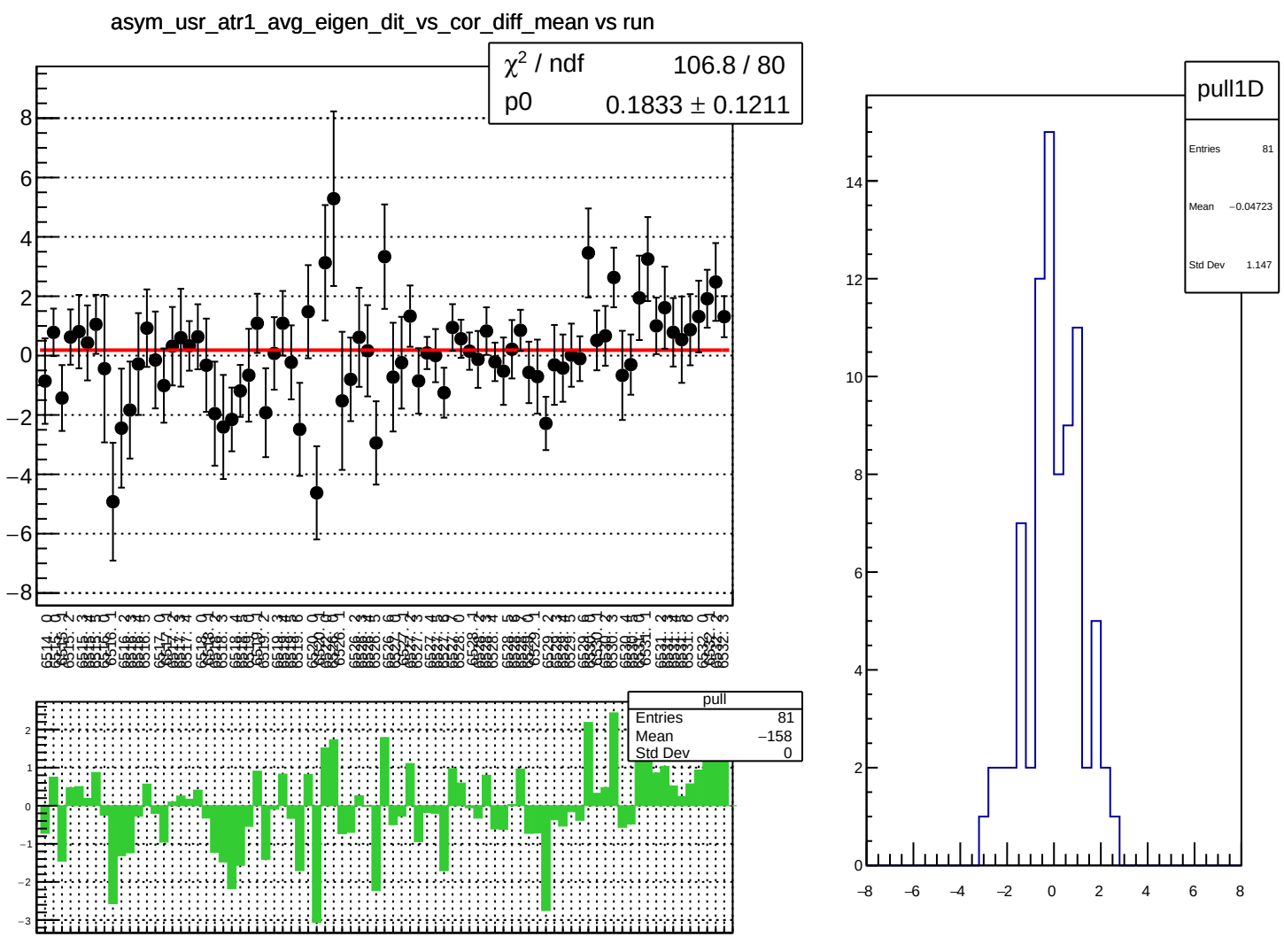

pull1D
Entries 81
Mean −0.04723
Std Dev 1.147

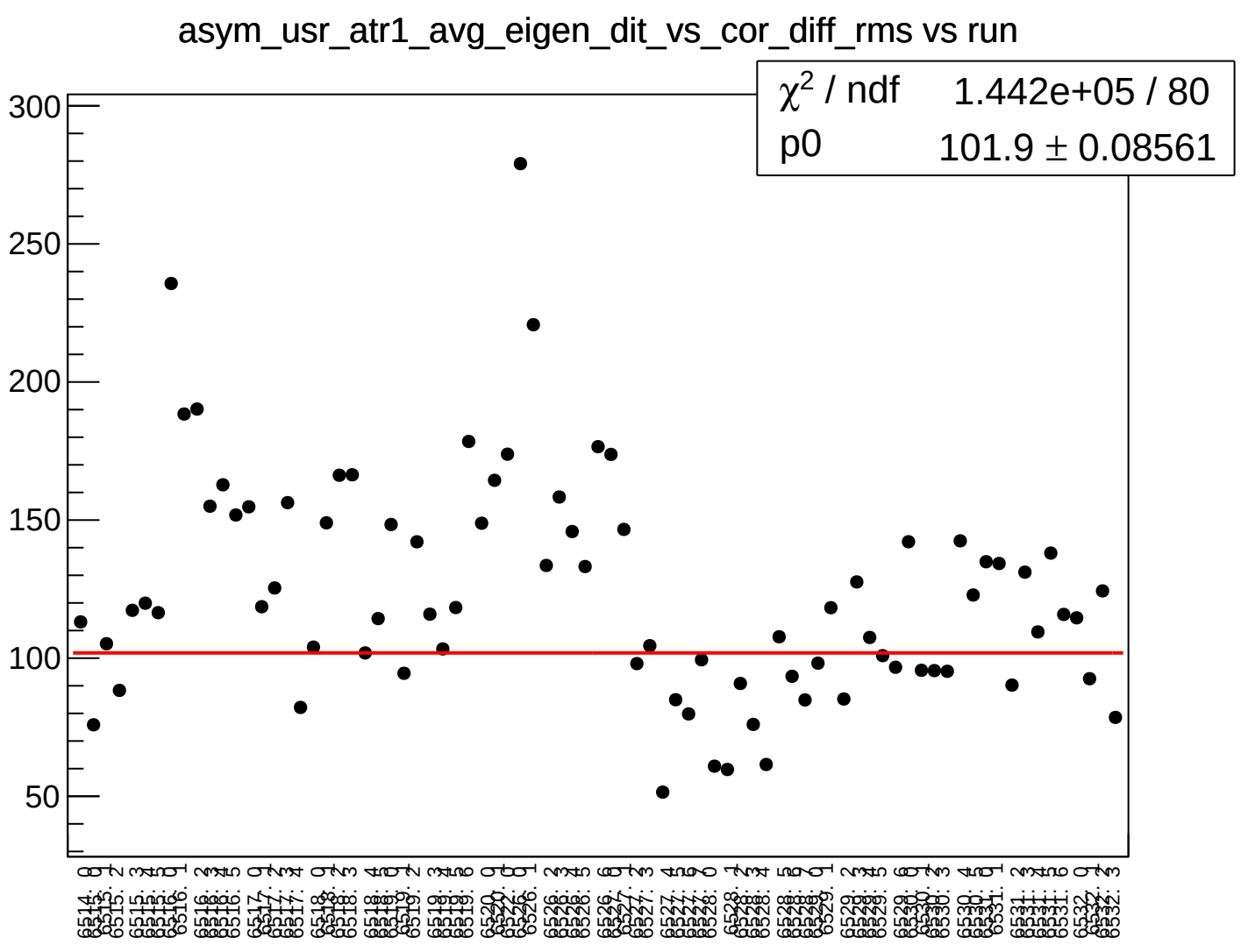

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.443e+05 / 80
p0 101.9 ± 0.08561
300
250
200
150
100
50

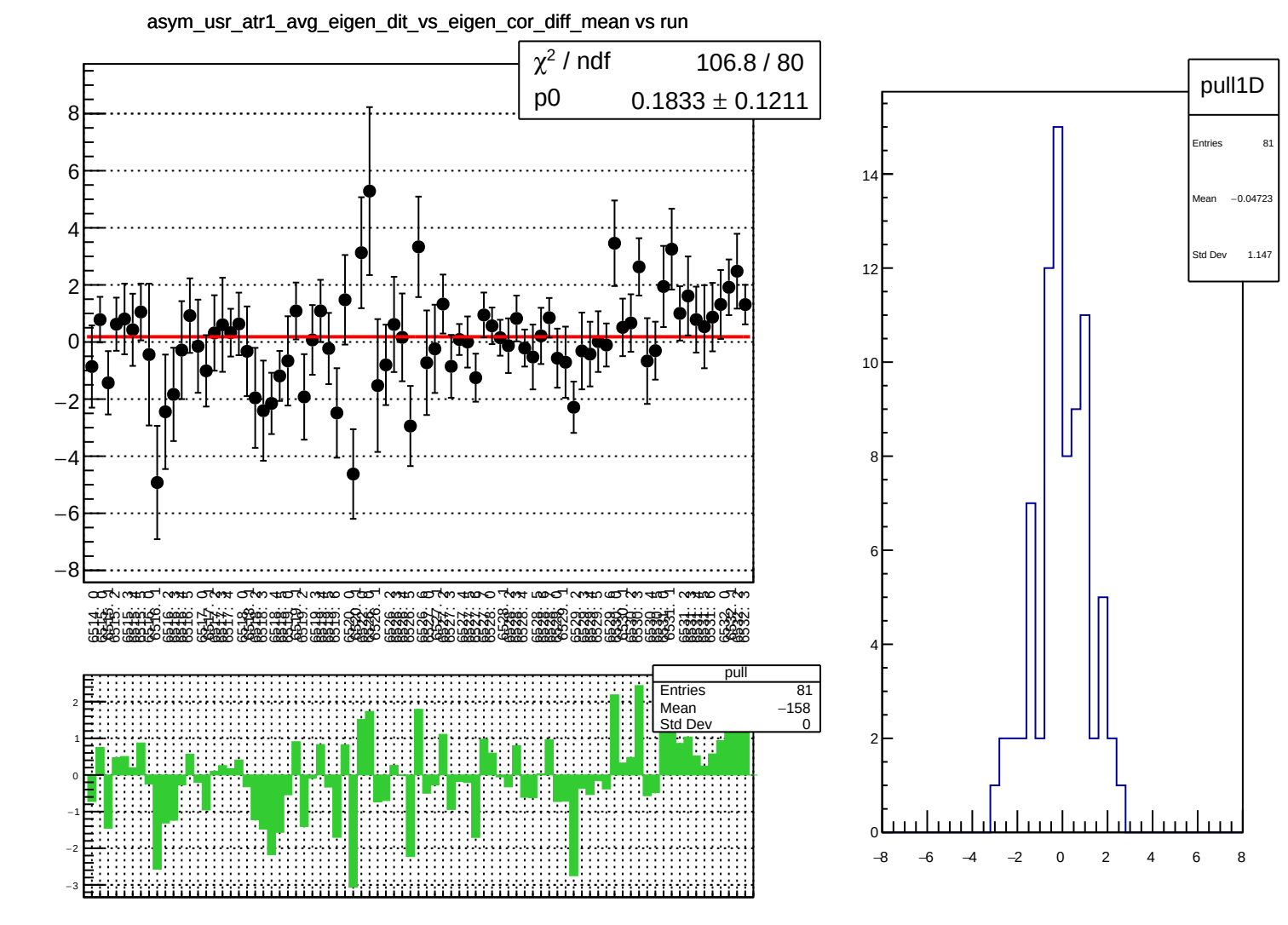

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.78 / 80
p0 3.126e−06 ± 4.843e−06
pull
Entries 81
Mean 169
Std Dev 0

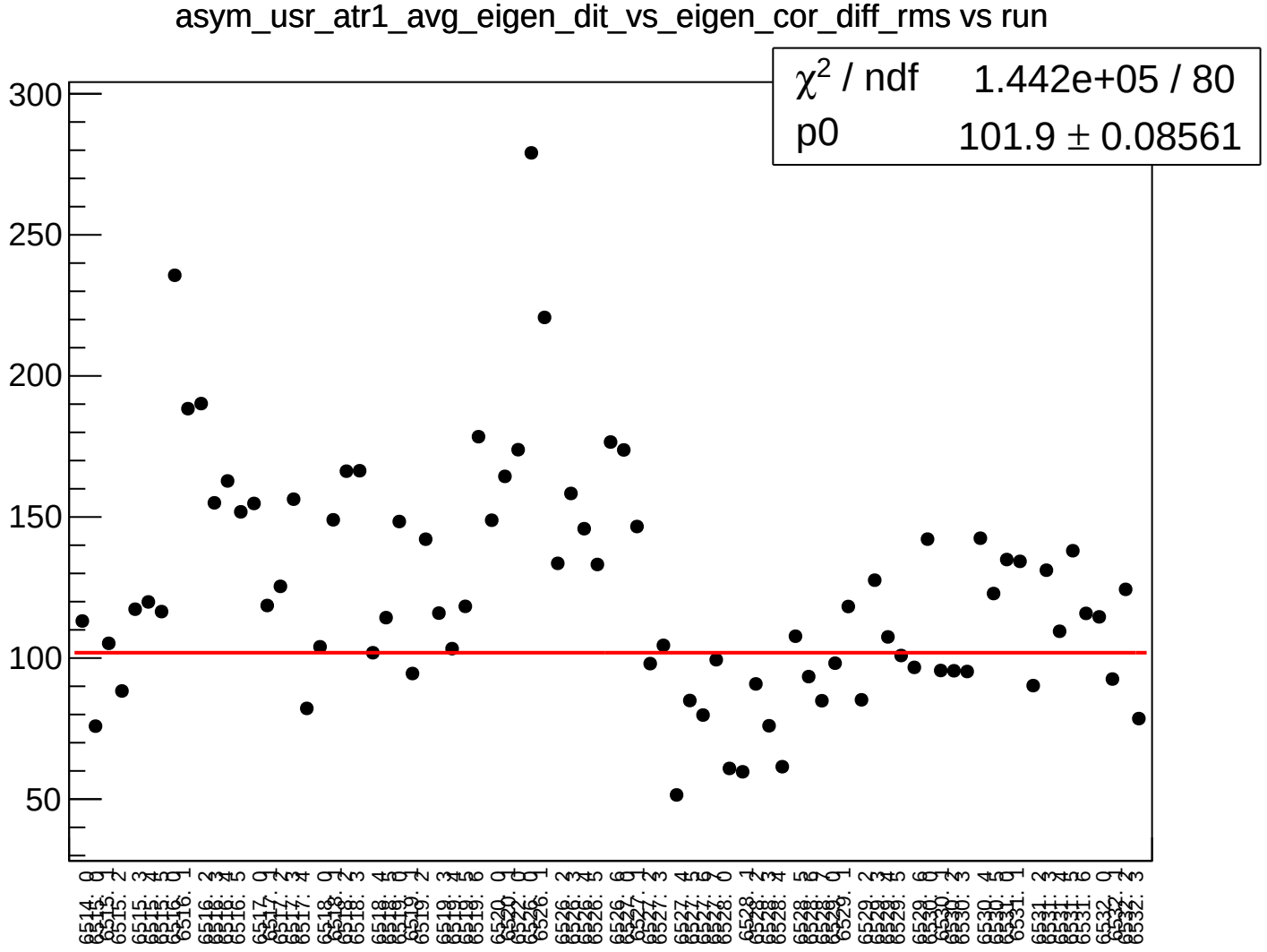

pull1D
Entries 81
Mean −0.02486
Std Dev 1.058

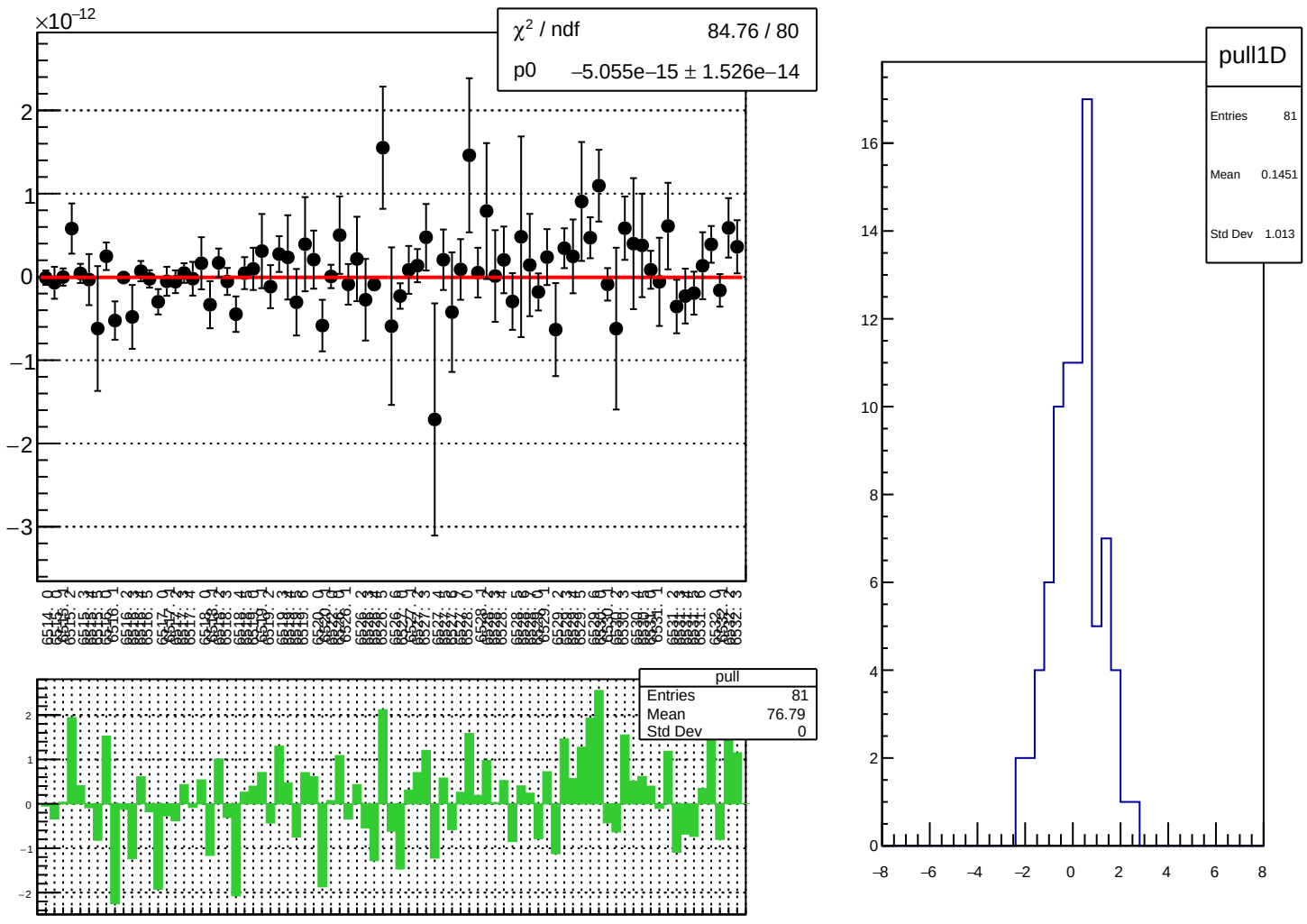

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.023e+04 / 80
p0 0.004209 ± 3.425e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003

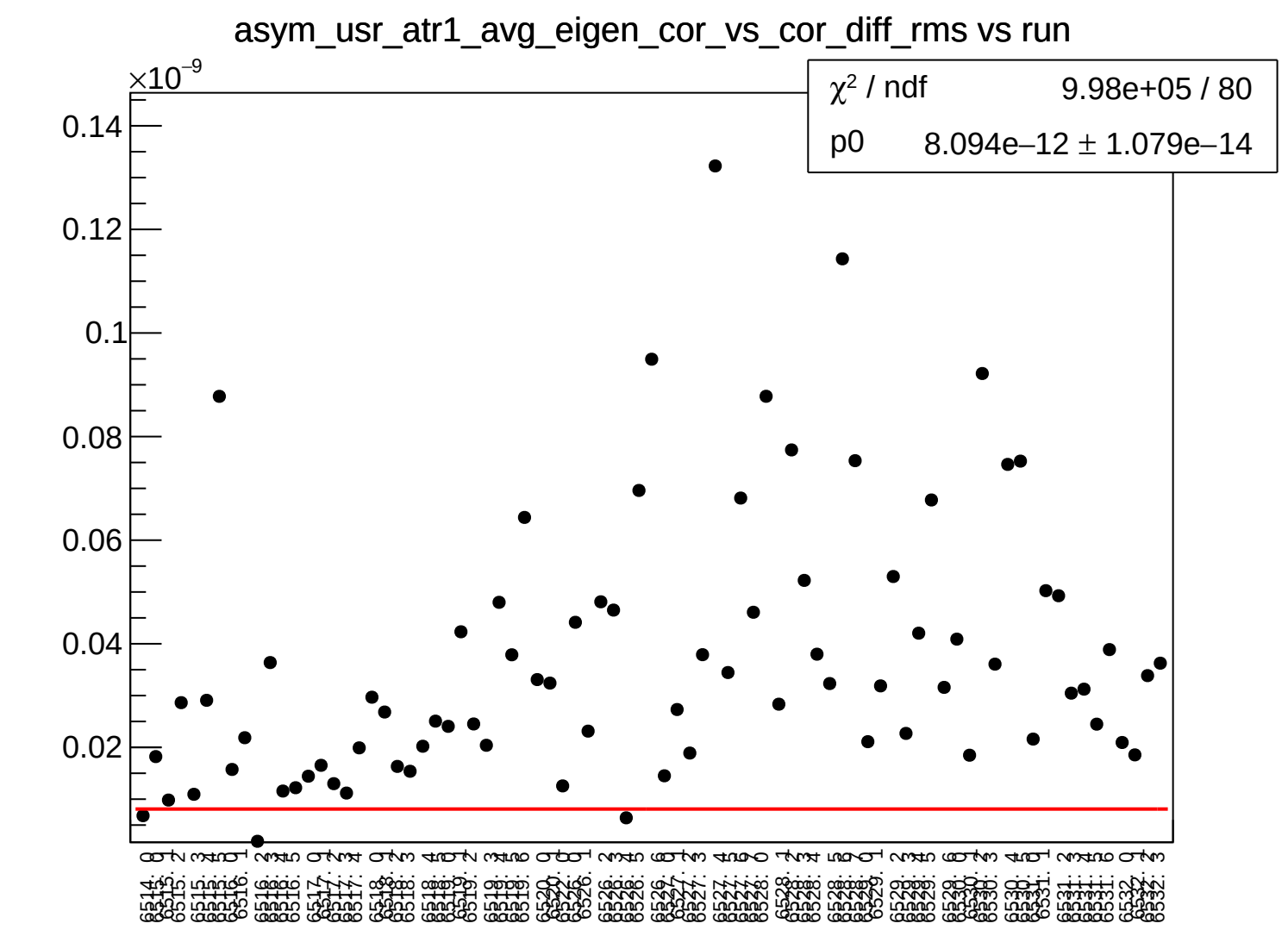

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 106.8 / 80
p0 0.1833 ± 0.1211
pull
Entries 81
Mean −158
Std Dev 0
pull1D
Entries 81
Mean −0.04723
Std Dev 1.147

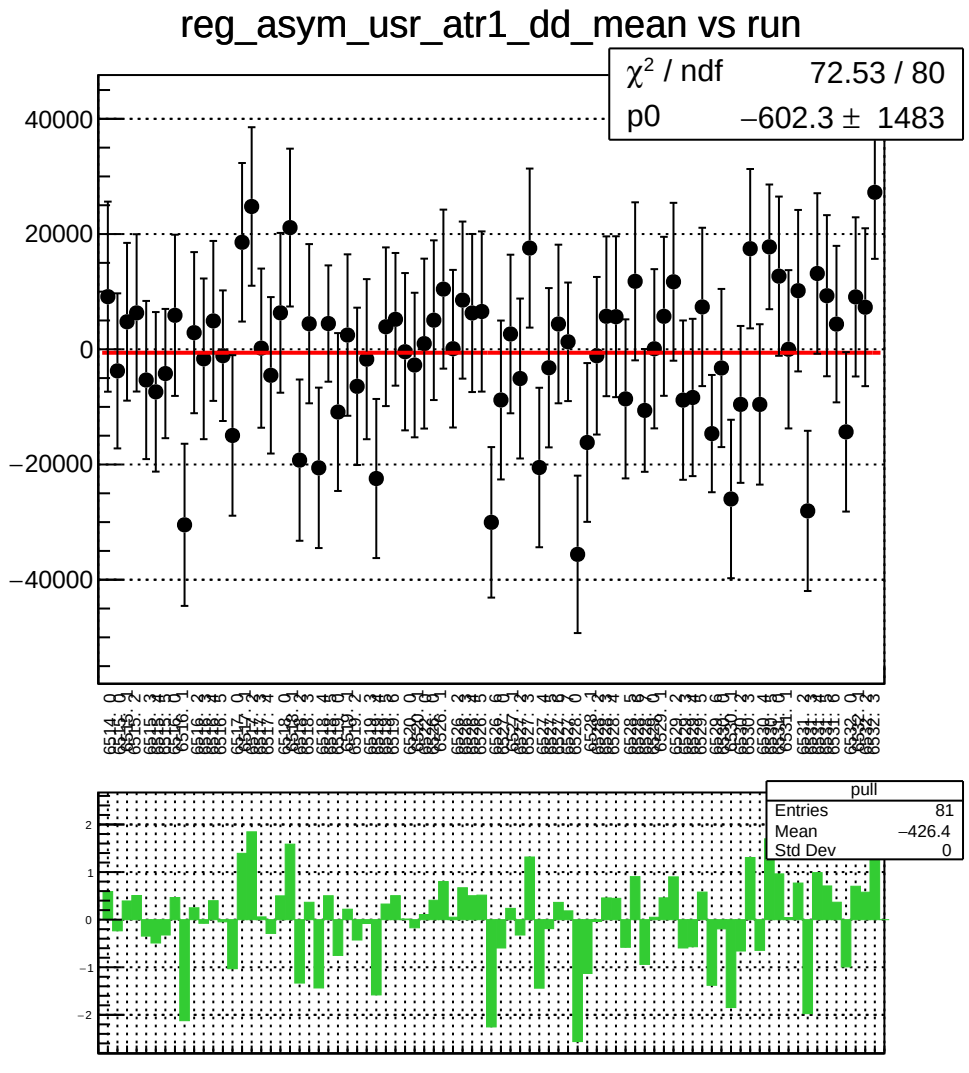

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.442e+05 / 80
p0 101.9 ± 0.08561
300
250
200
150
100
50

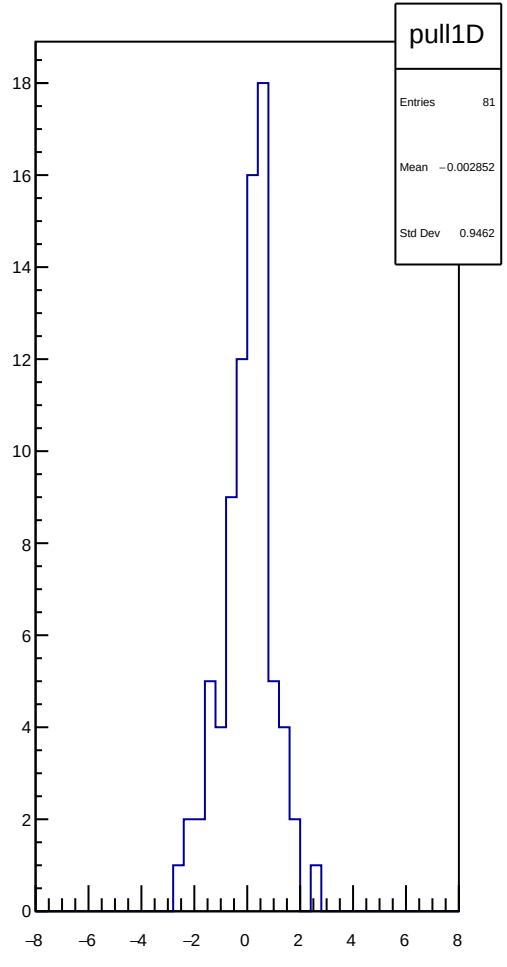

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.8 / 80
p0 0.1833 ± 0.1211
pull
Entries 81
Mean −158
Std Dev 0
pull1D
Entries 81
Mean −0.04723
Std Dev 1.147

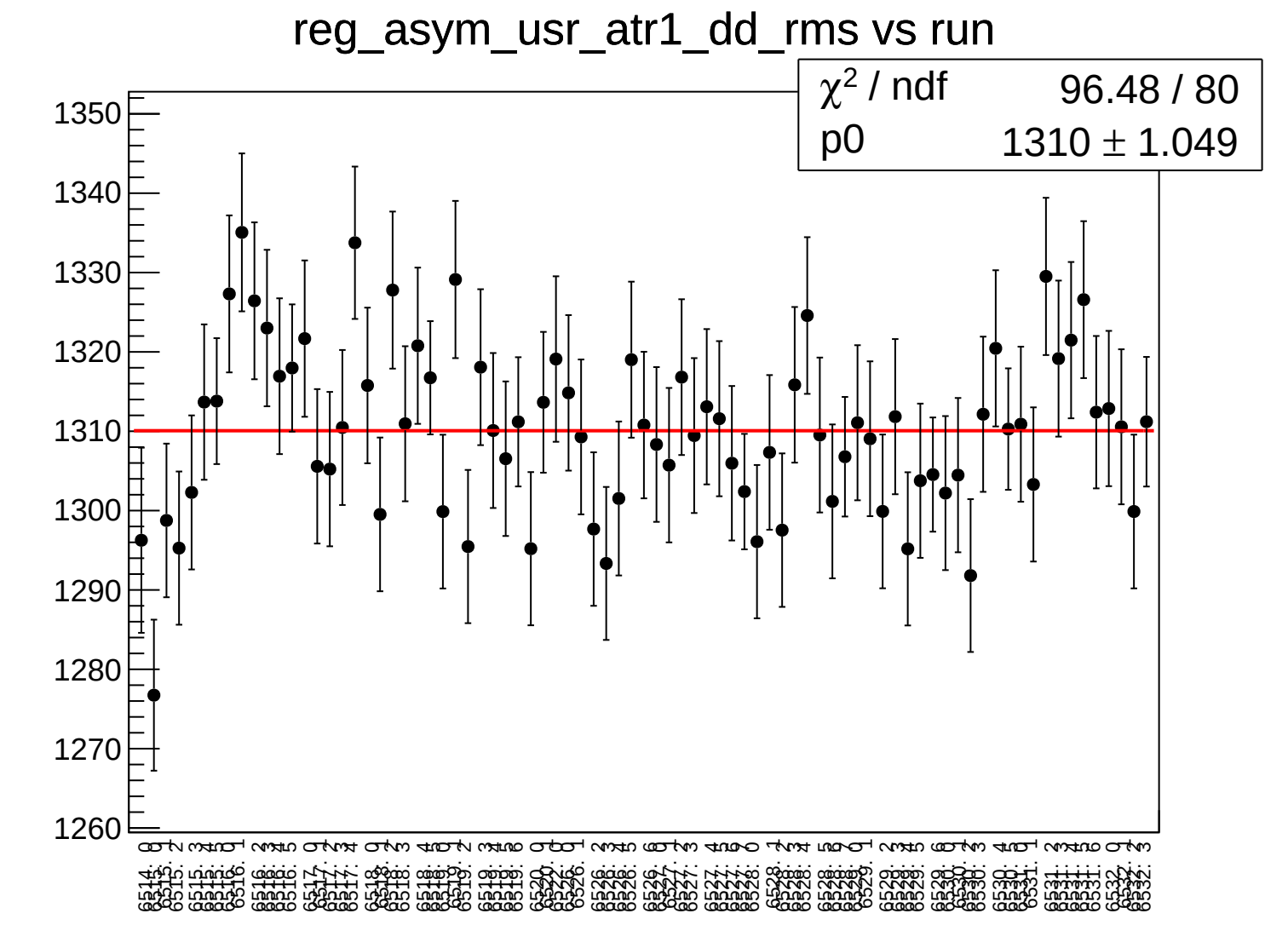

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.442e+05 / 80
p0 101.9 ± 0.08561
300
250
200
150
100
50

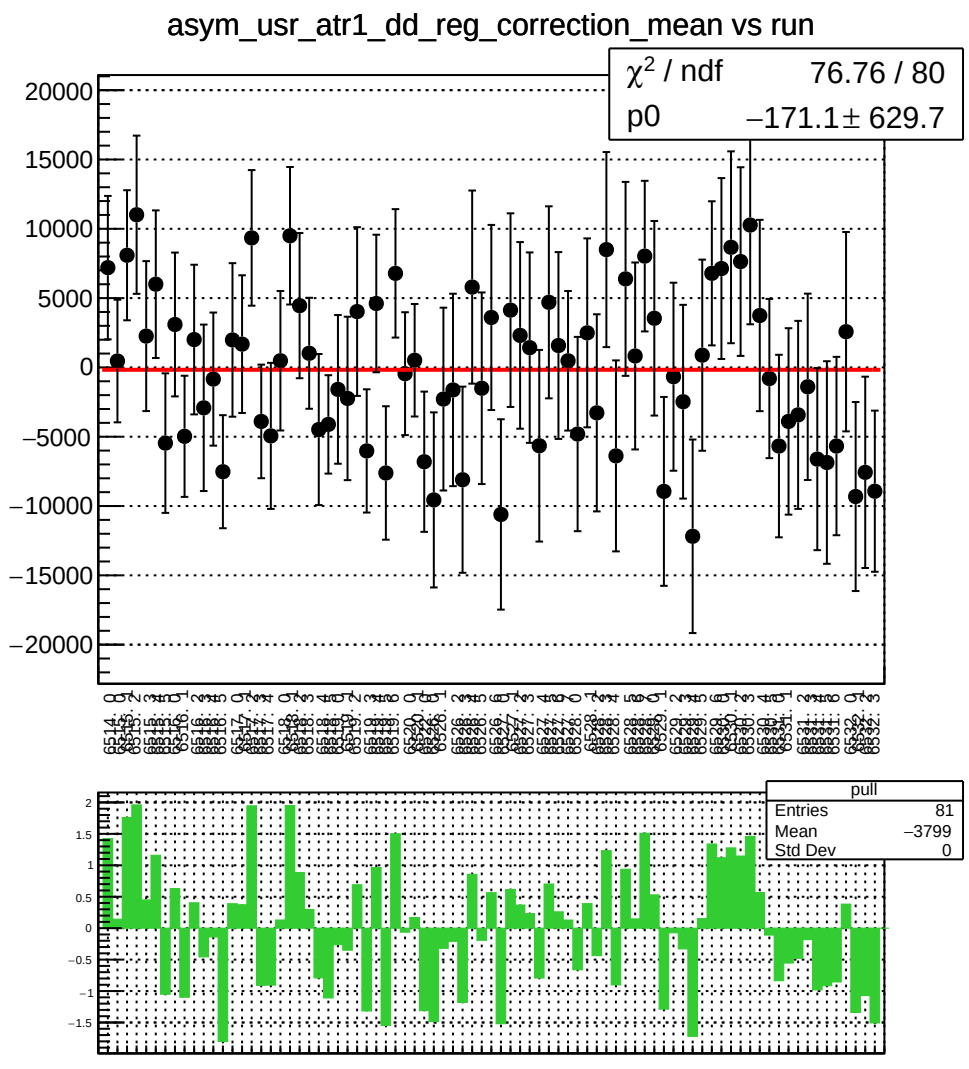

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.76 / 80
p0 −5.055e−15 ± 1.526e−14
pull
Entries 81
Mean 76.79
Std Dev 0
pull1D
Entries 81
Mean 0.1451
Std Dev 1.013

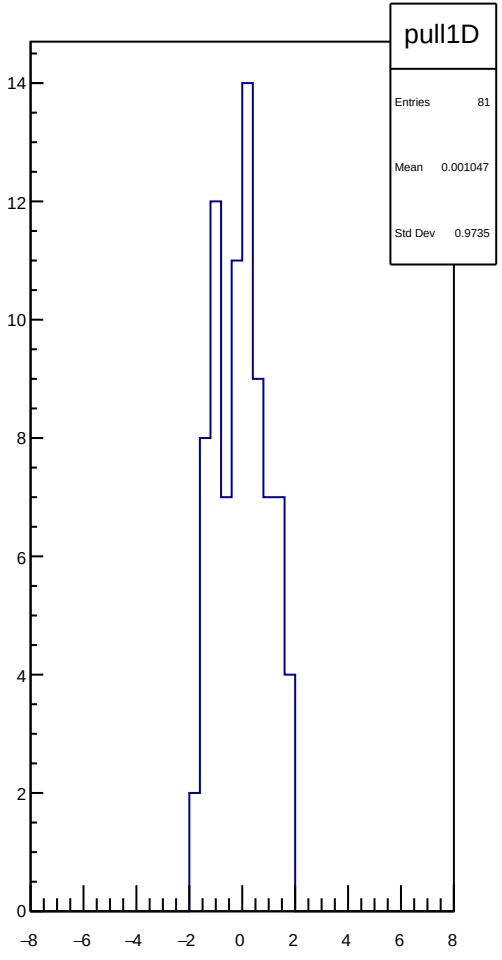

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.98e+05 / 80
p0 8.094e−12 ± 1.079e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

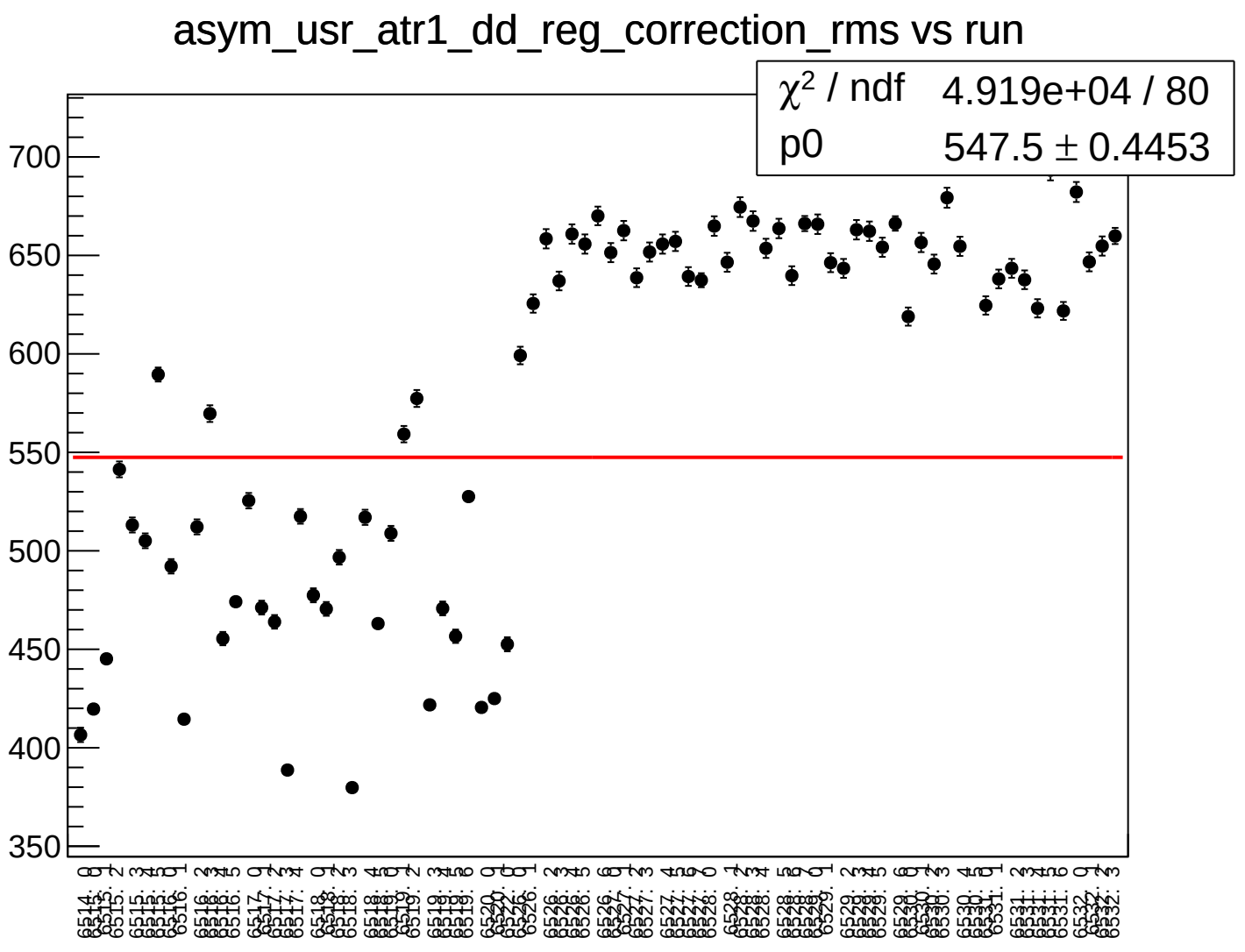

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 72.53 / 80
p0 −602.3 ± 1483
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −426.4
Std Dev 0
2
1
0
−1
−2

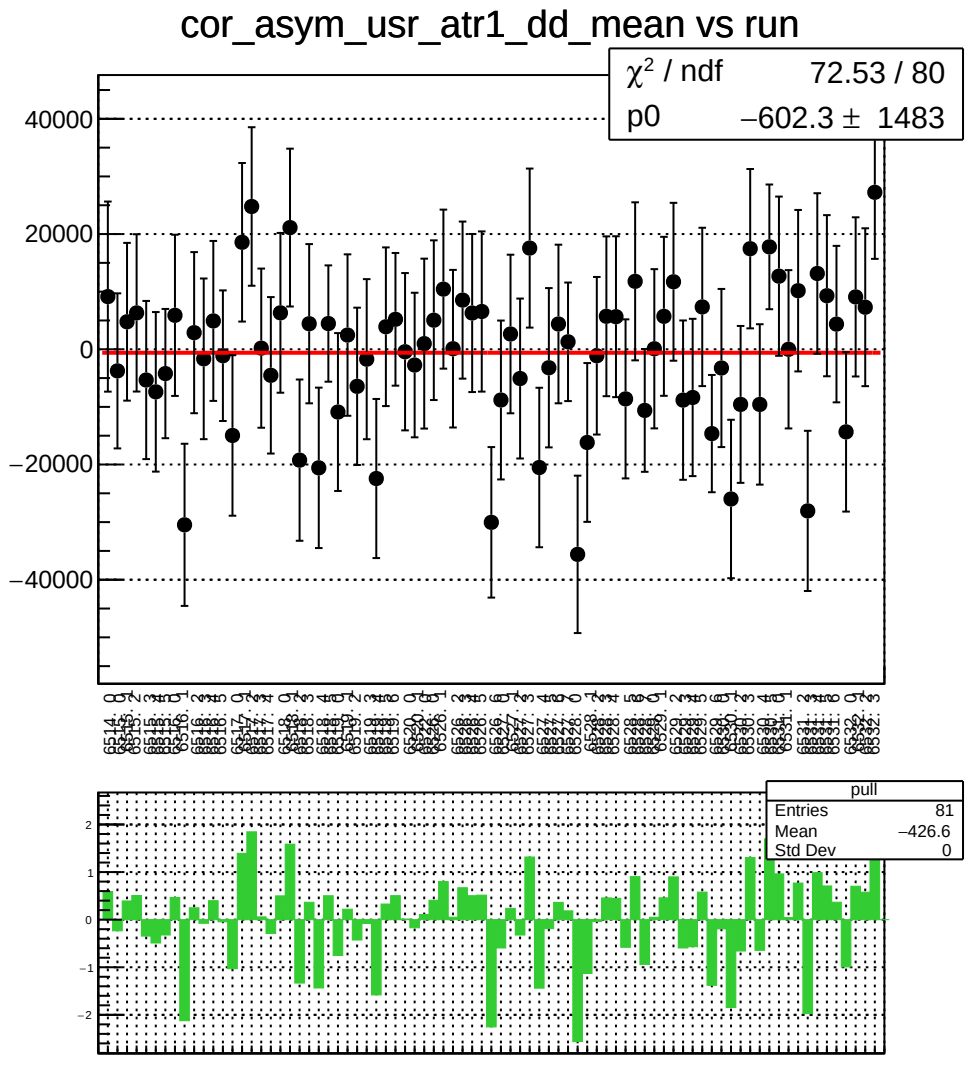

pull1D
Entries 81
Mean −0.002852
Std Dev 0.9462
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

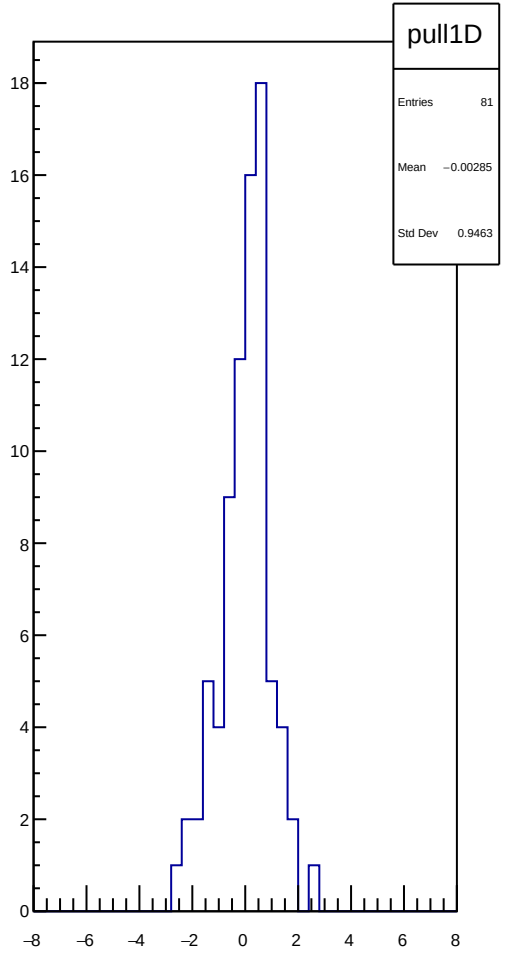

reg_asym_usr_atr1_dd_rms vs run
χ² / ndf 96.48 / 80
p0 1310 ± 1.049
1350
1340
1330
1320
1310
1300
1290
1280
1270
1260

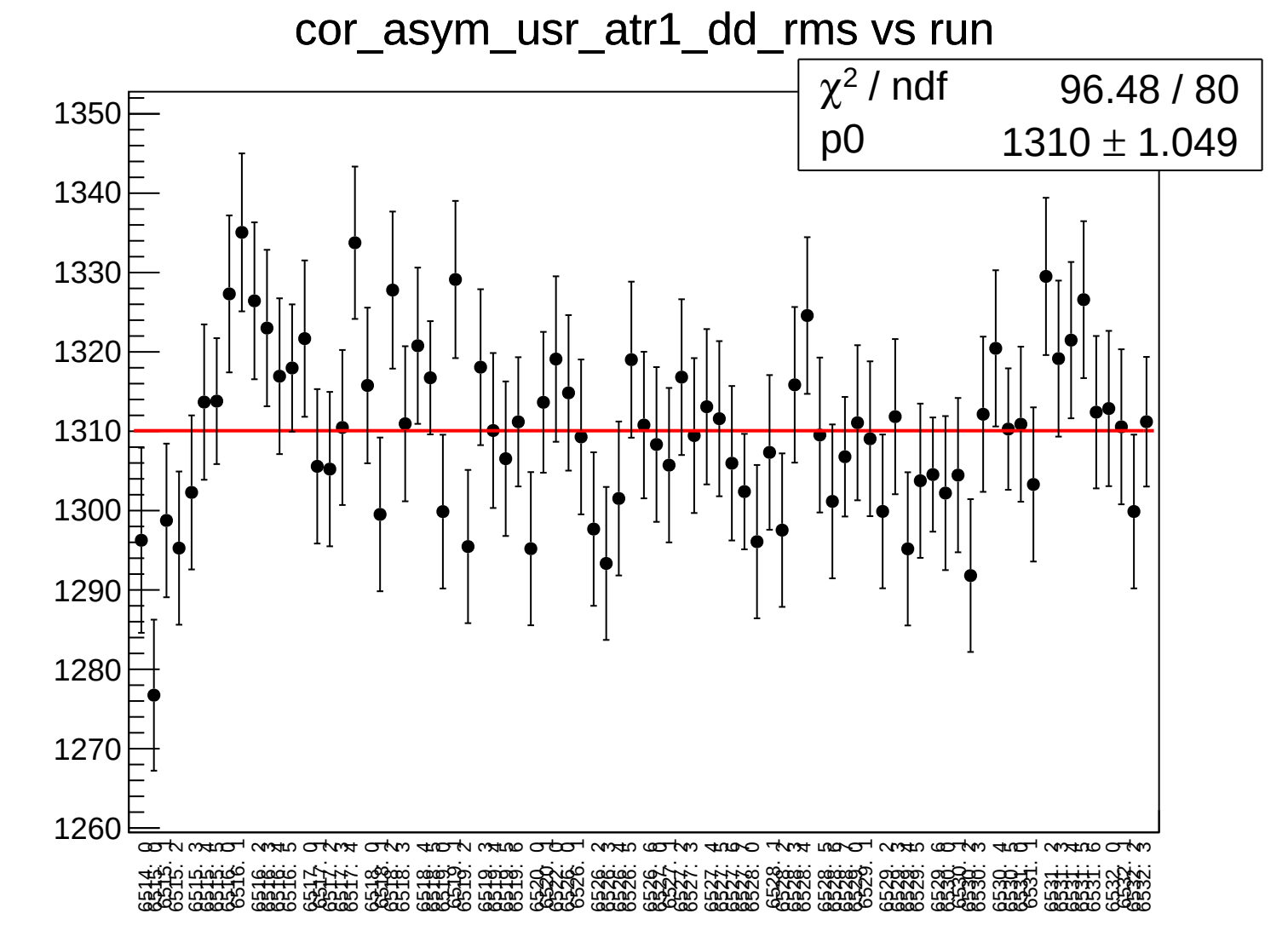

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 76.76 / 80
p0 −171.1± 629.7
pull
Entries 81
Mean −3799
Std Dev 0

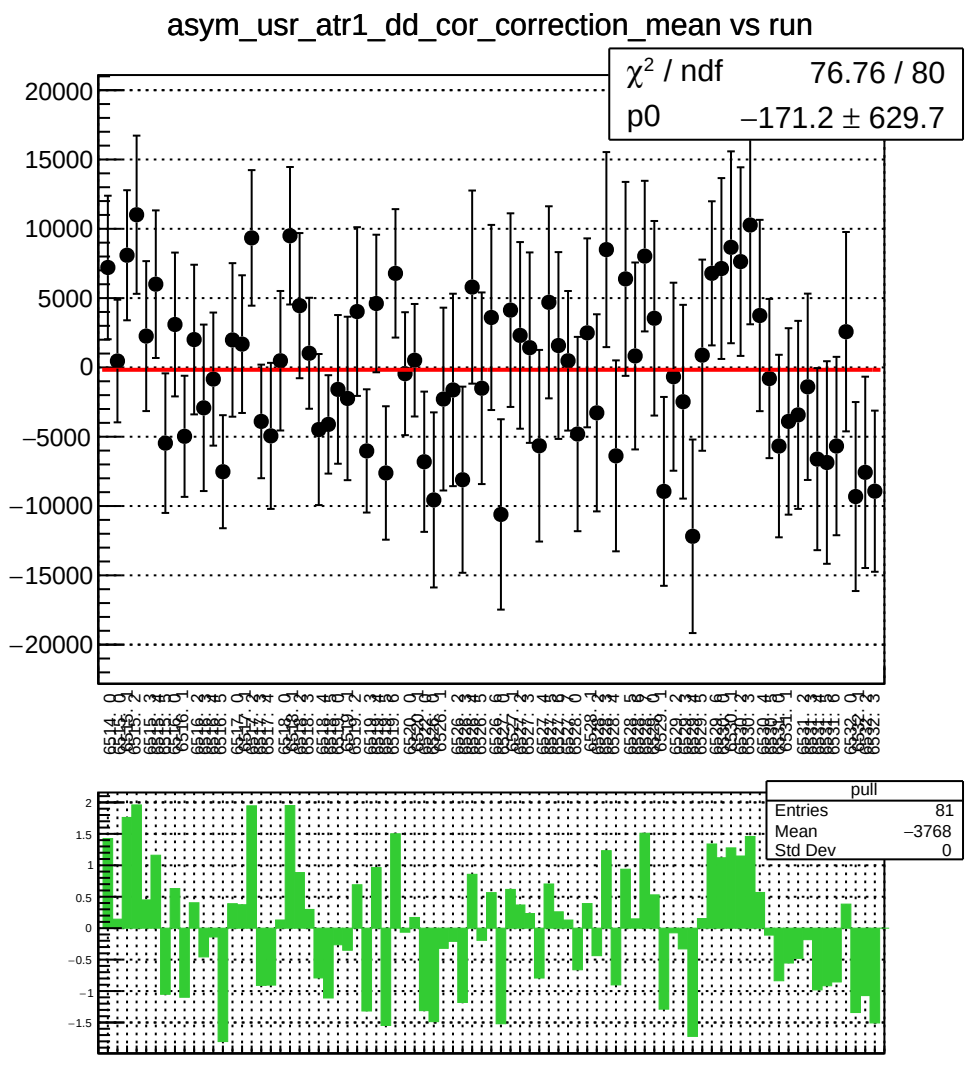

pull1D
Entries 81
Mean 0.001047
Std Dev 0.9735

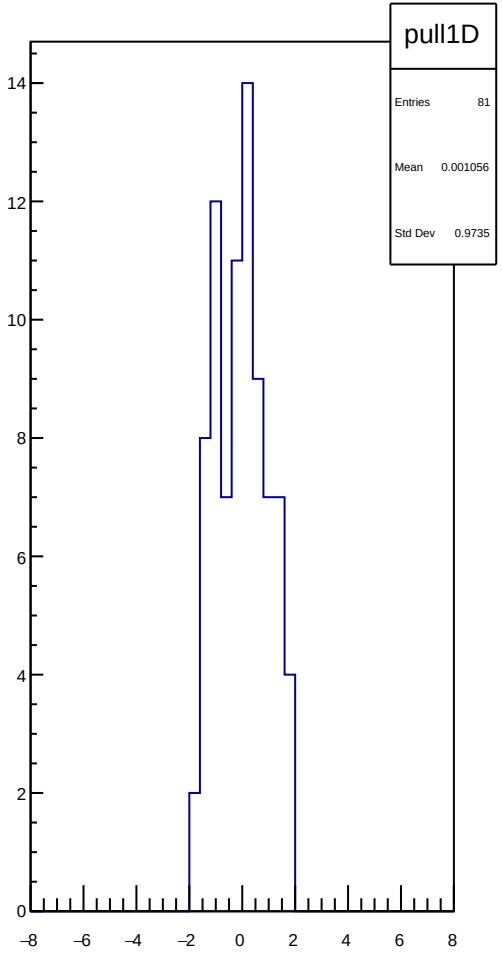

asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 4.919e+04 / 80
p0 547.5 ± 0.4453
700
650
600
550
500
450
400
350

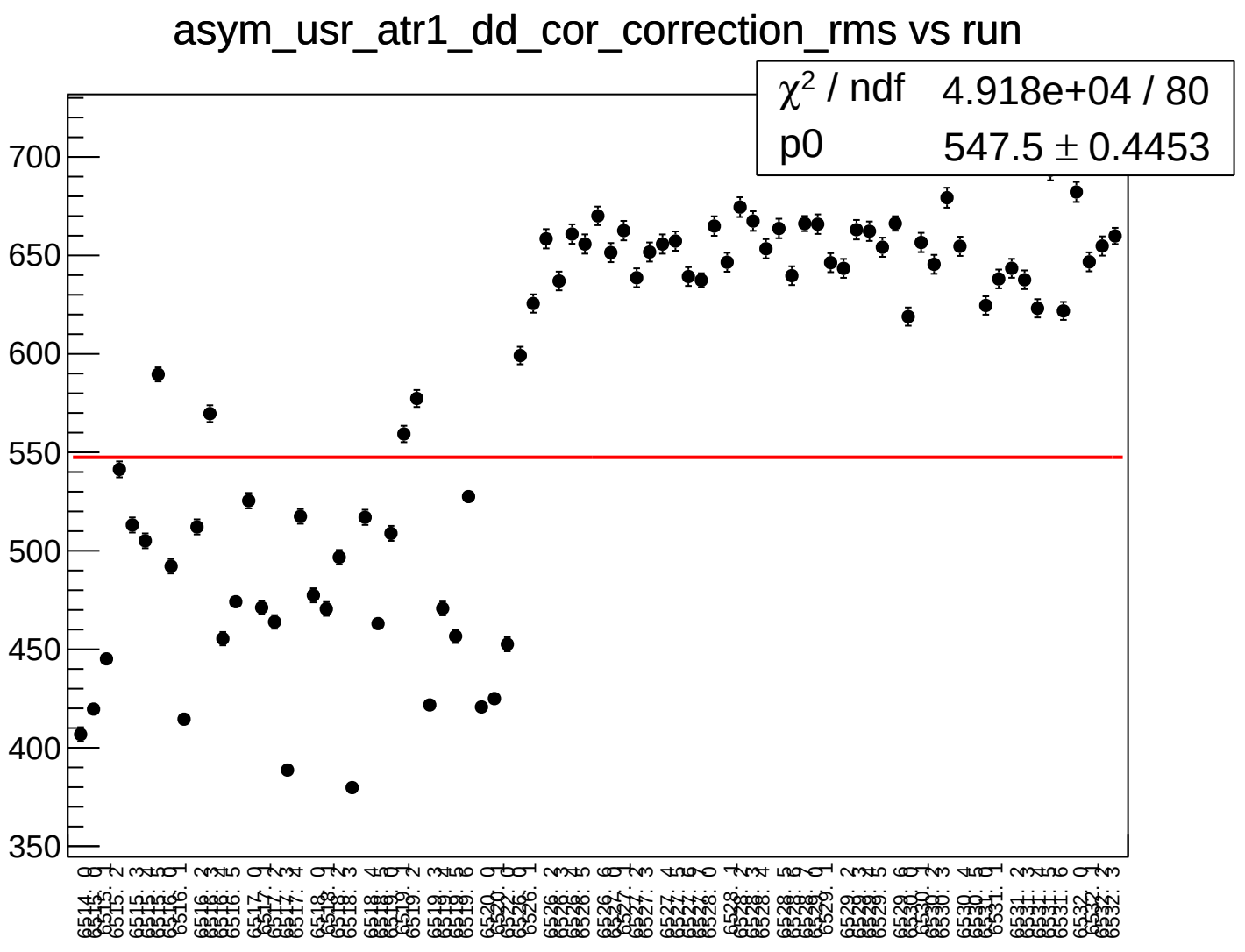

cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 72.53 / 80
p0 −602.3 ± 1483
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −426.6
Std Dev 0
2
1
0
−1
−2

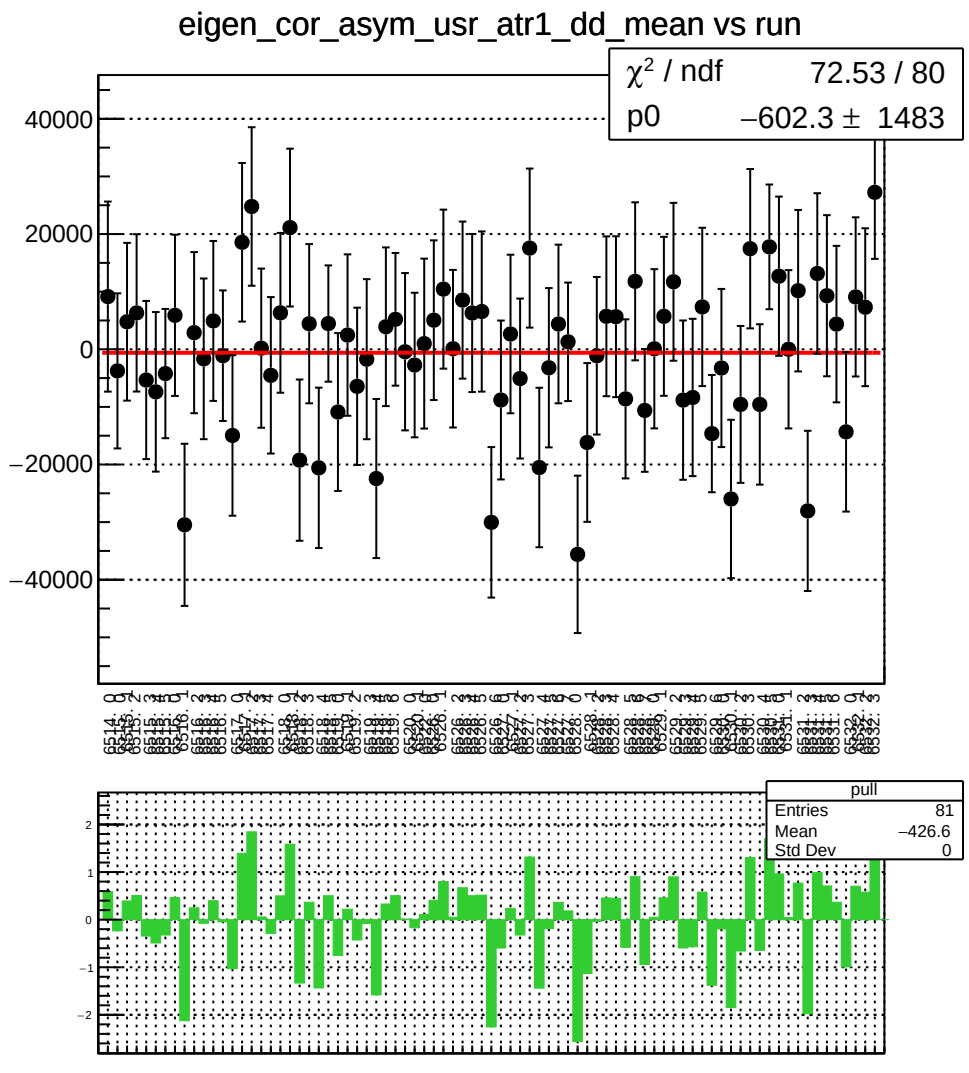

pull1D
Entries 81
Mean −0.00285
Std Dev 0.9463
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

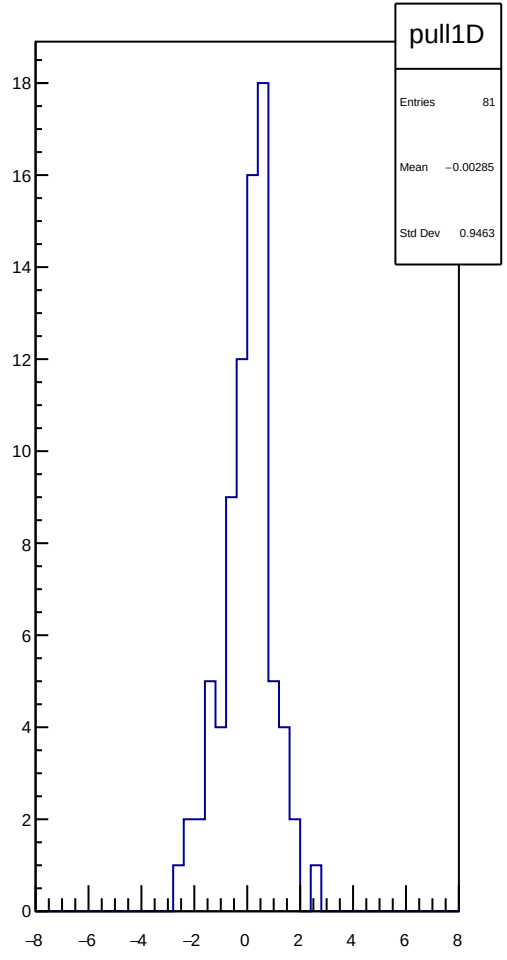

cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 96.48 / 80
p0 1310 ± 1.049
1350
1340
1330
1320
1310
1300
1290
1280
1270
1260

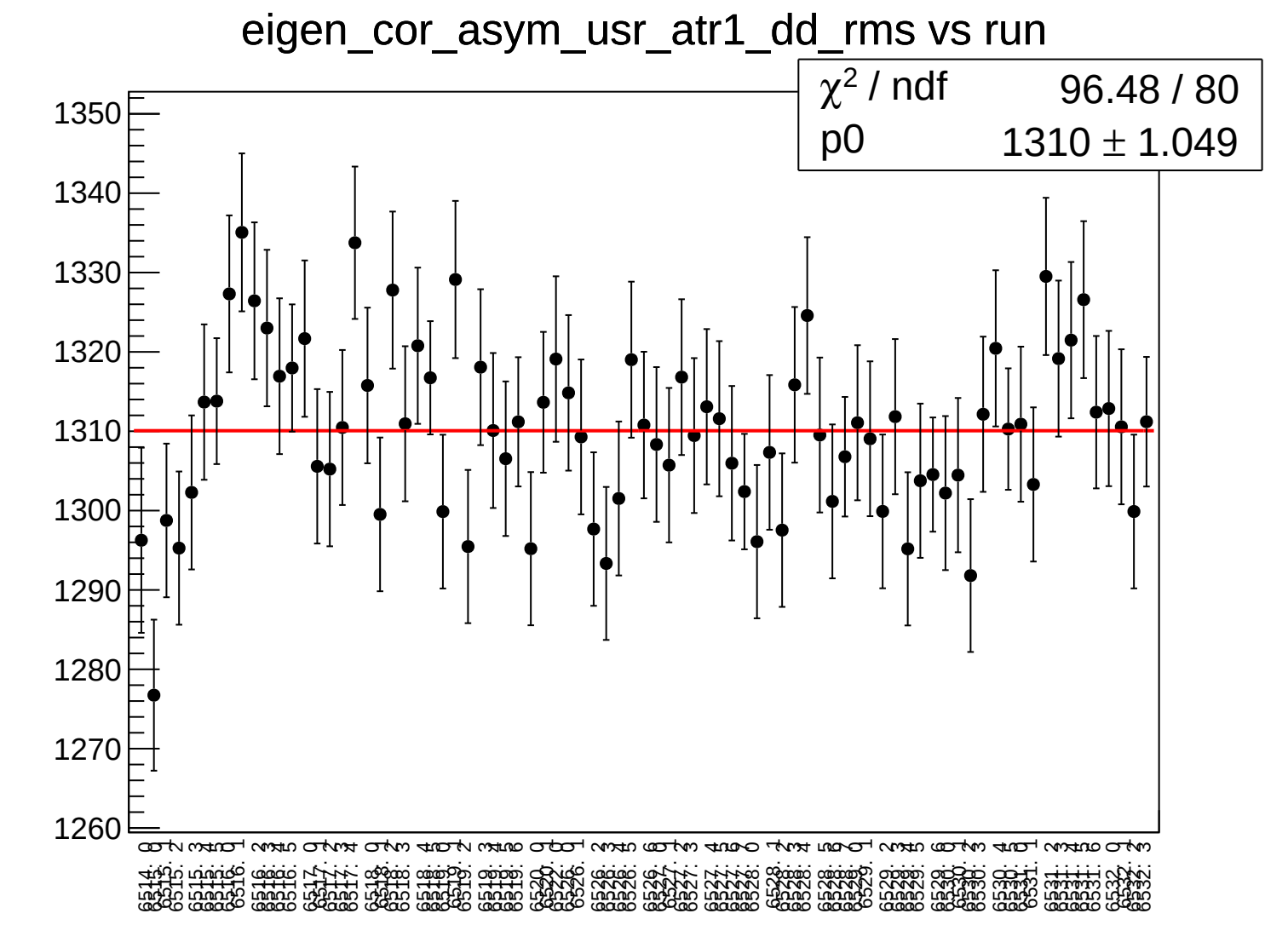

asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 76.76 / 80
p0 −171.2 ± 629.7
pull
Entries 81
Mean −3768
Std Dev 0

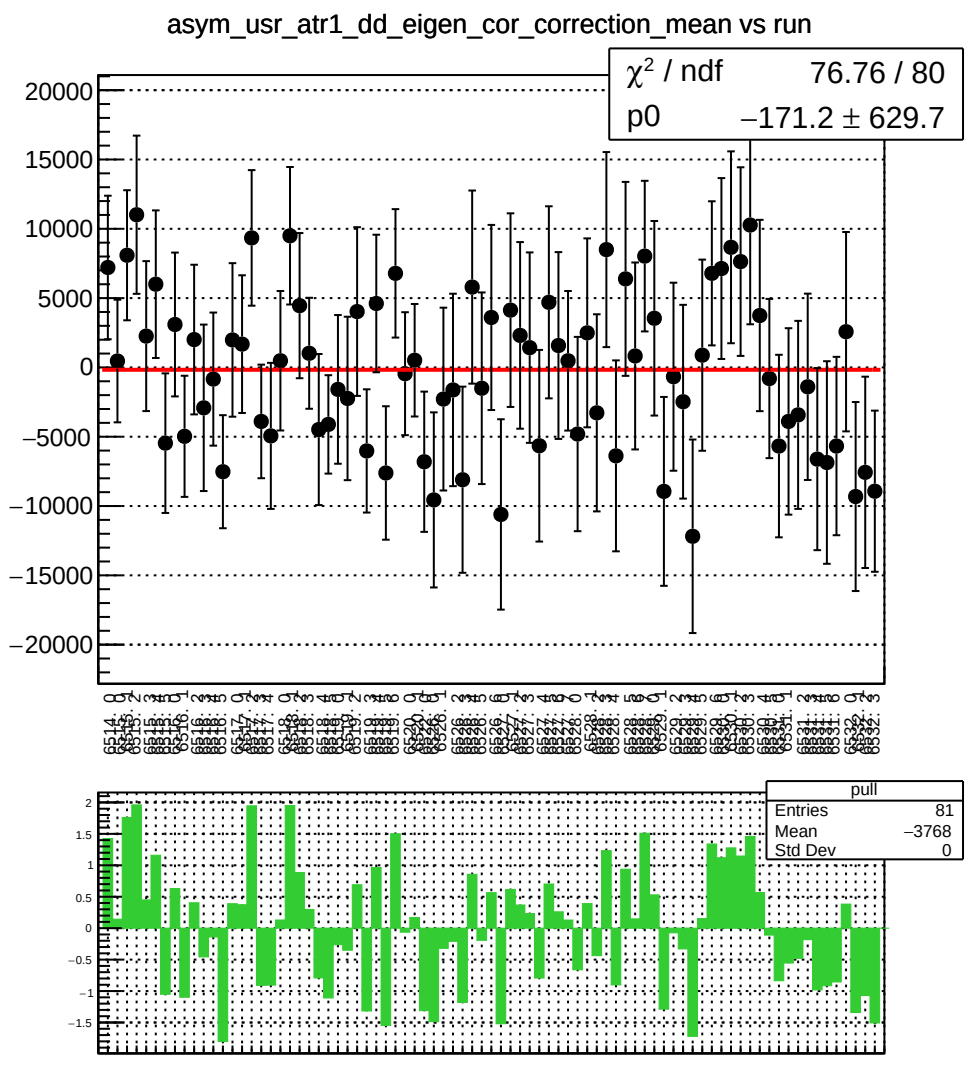

pull1D
Entries 81
Mean 0.001056
Std Dev 0.9735

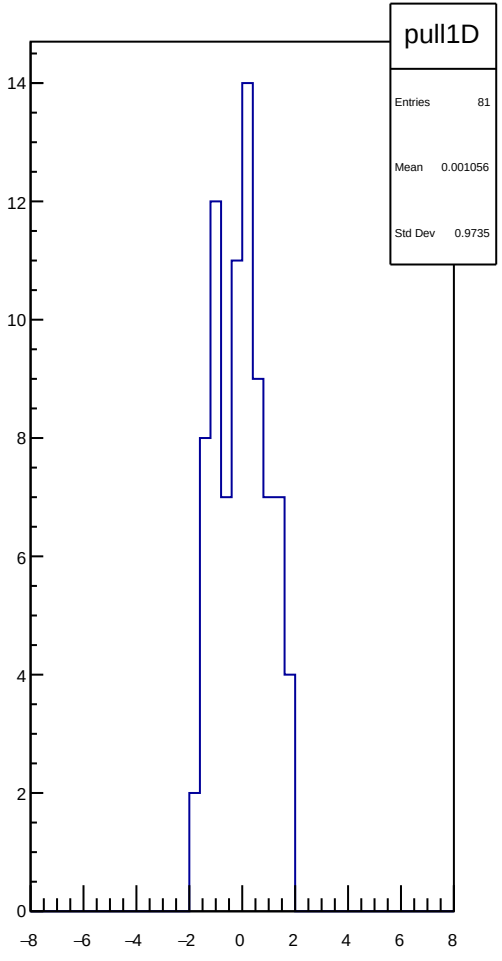

asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 4.918e+04 / 80
p0 547.5 ± 0.4453
700
650
600
550
500
450
400
350

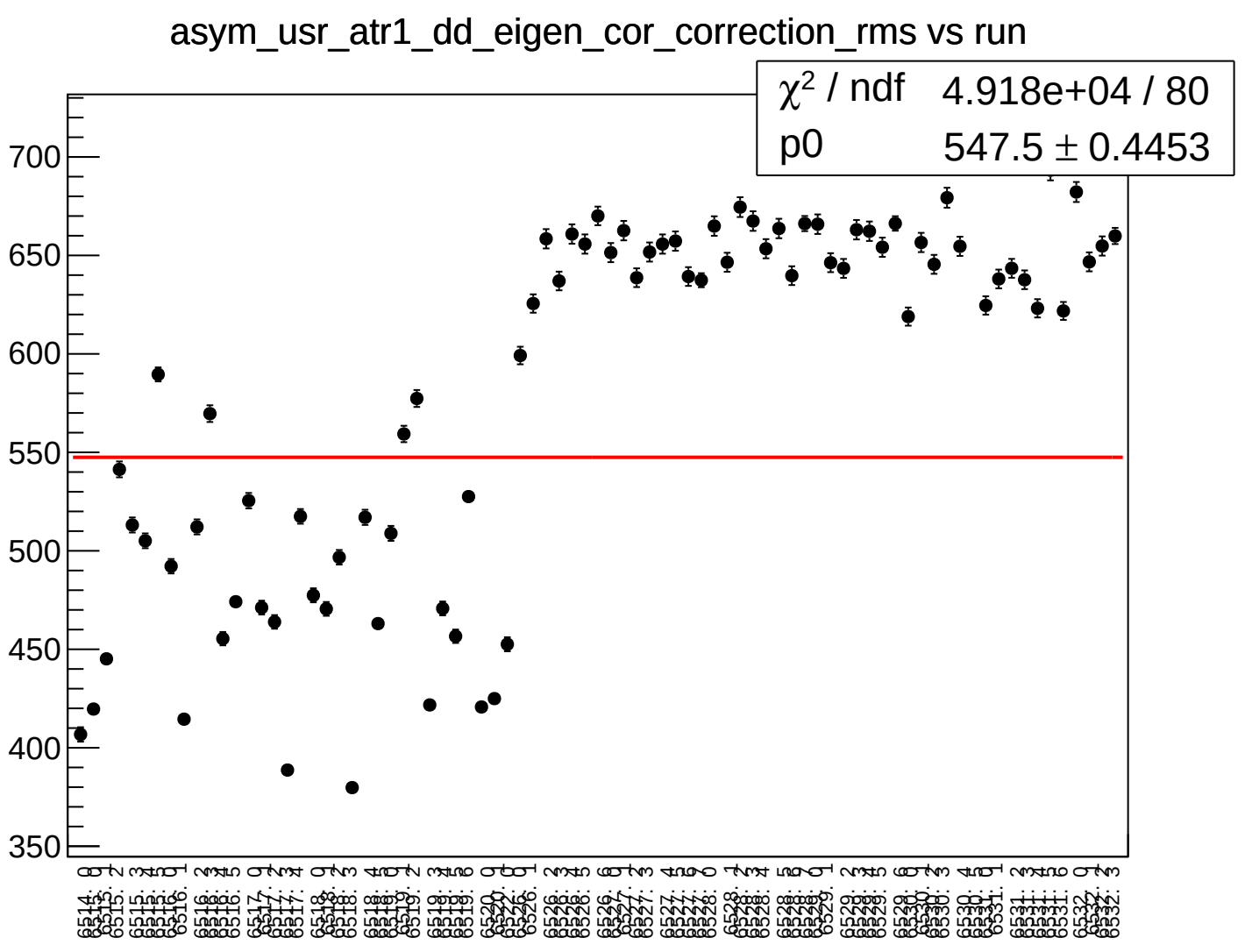

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 72.53 / 80
p0 −602.3 ± 1483
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −426.6
Std Dev 0
2
1
0
−1
−2

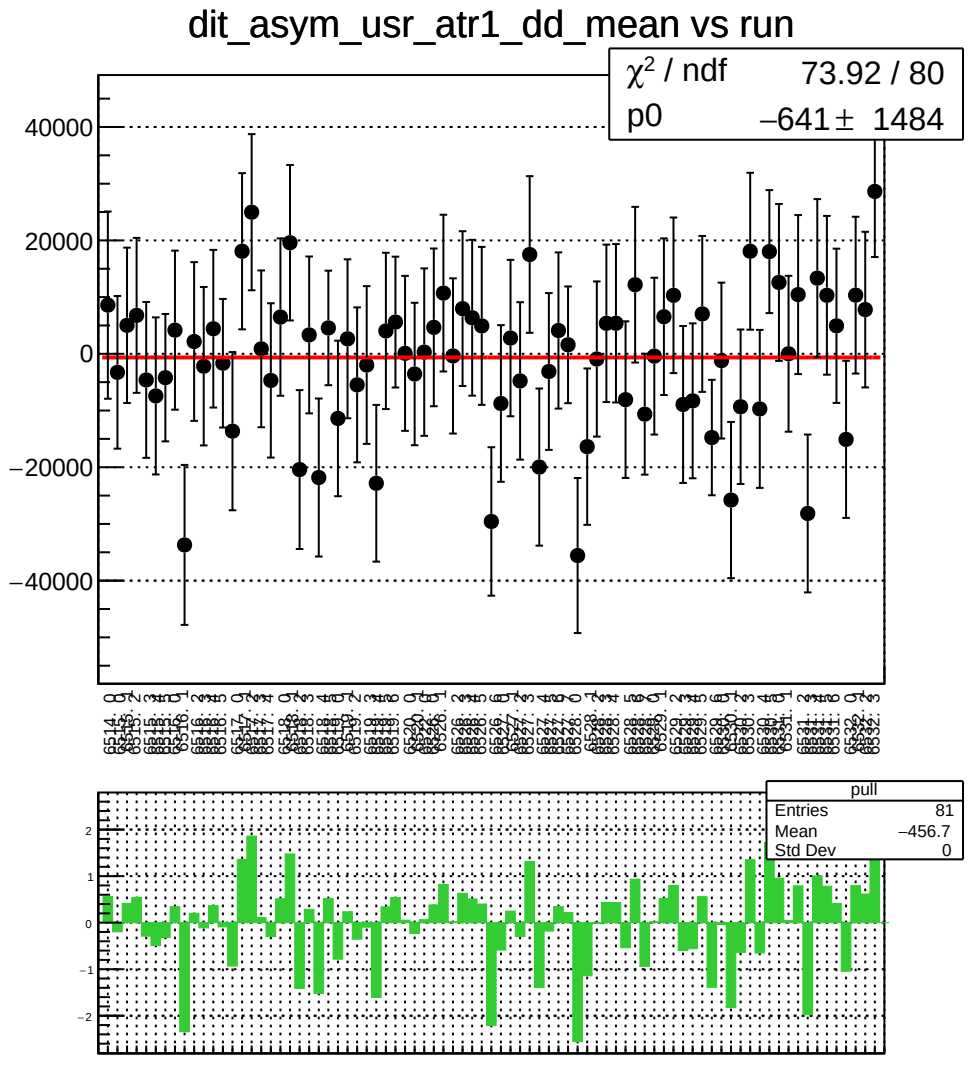

pull1D
Entries 81
Mean −0.00285
Std Dev 0.9463
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

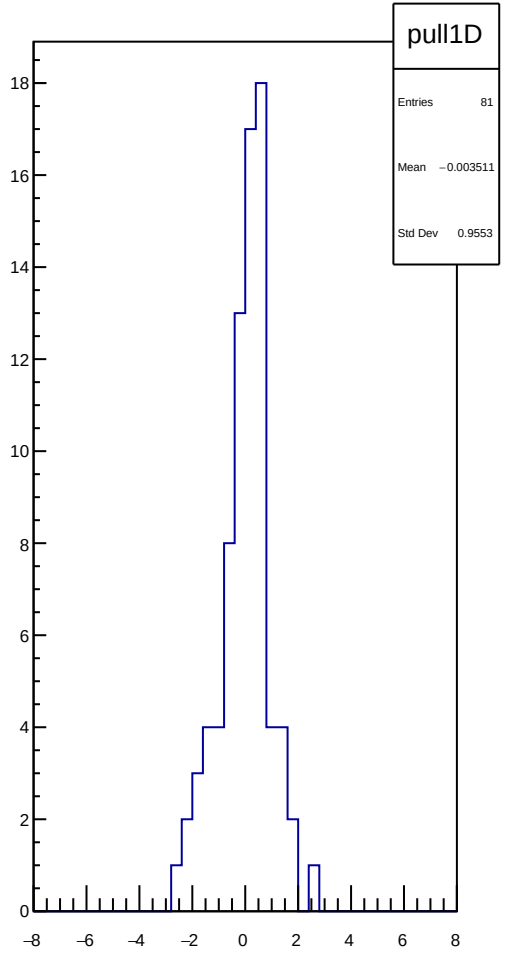

eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 96.48 / 80
p0 1310 ± 1.049
1350
1340
1330
1320
1310
1300
1290
1280
1270
1260

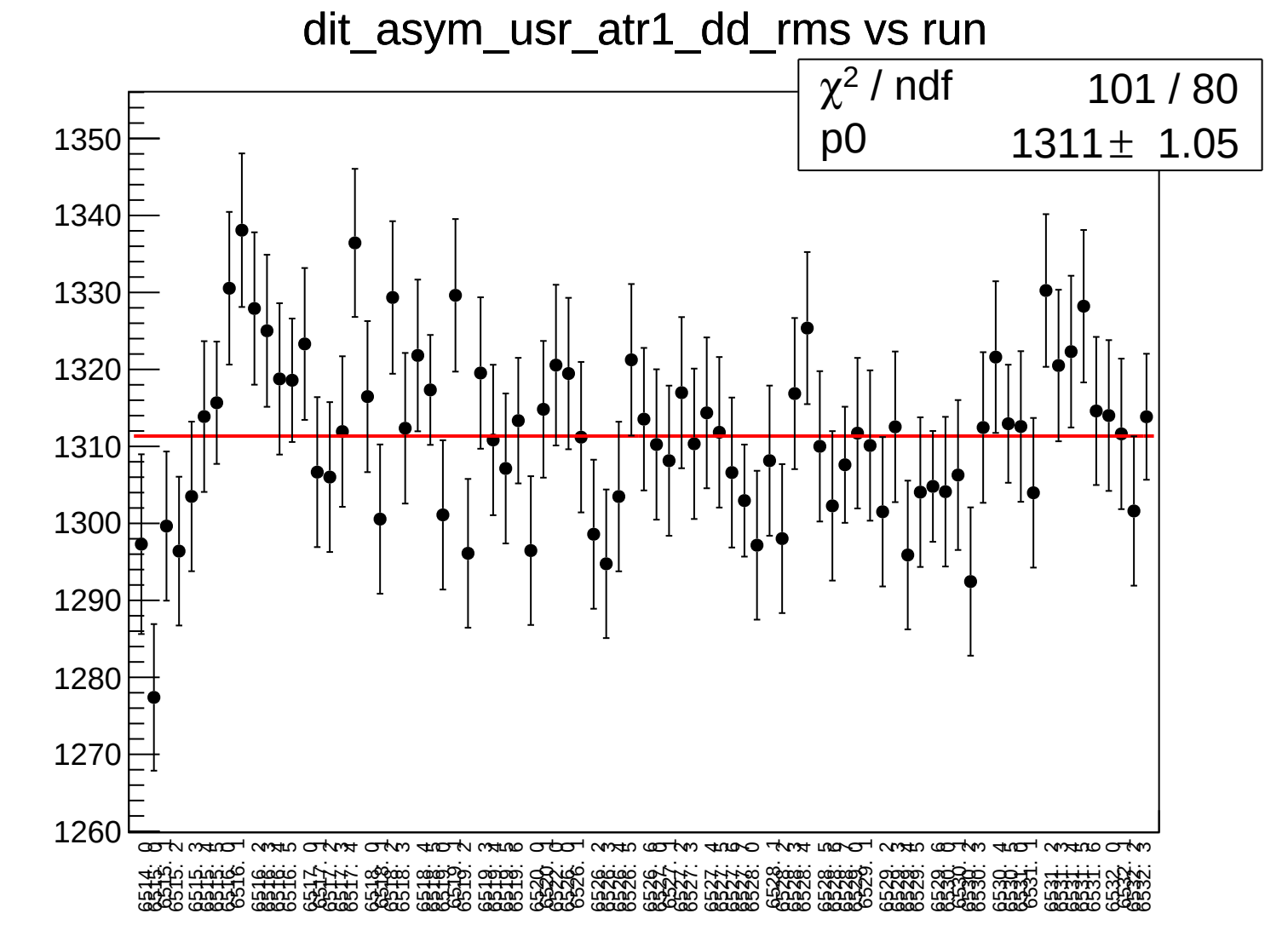

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 76.76 / 80
p0 −171.2 ± 629.7
pull
Entries 81
Mean −3768
Std Dev 0

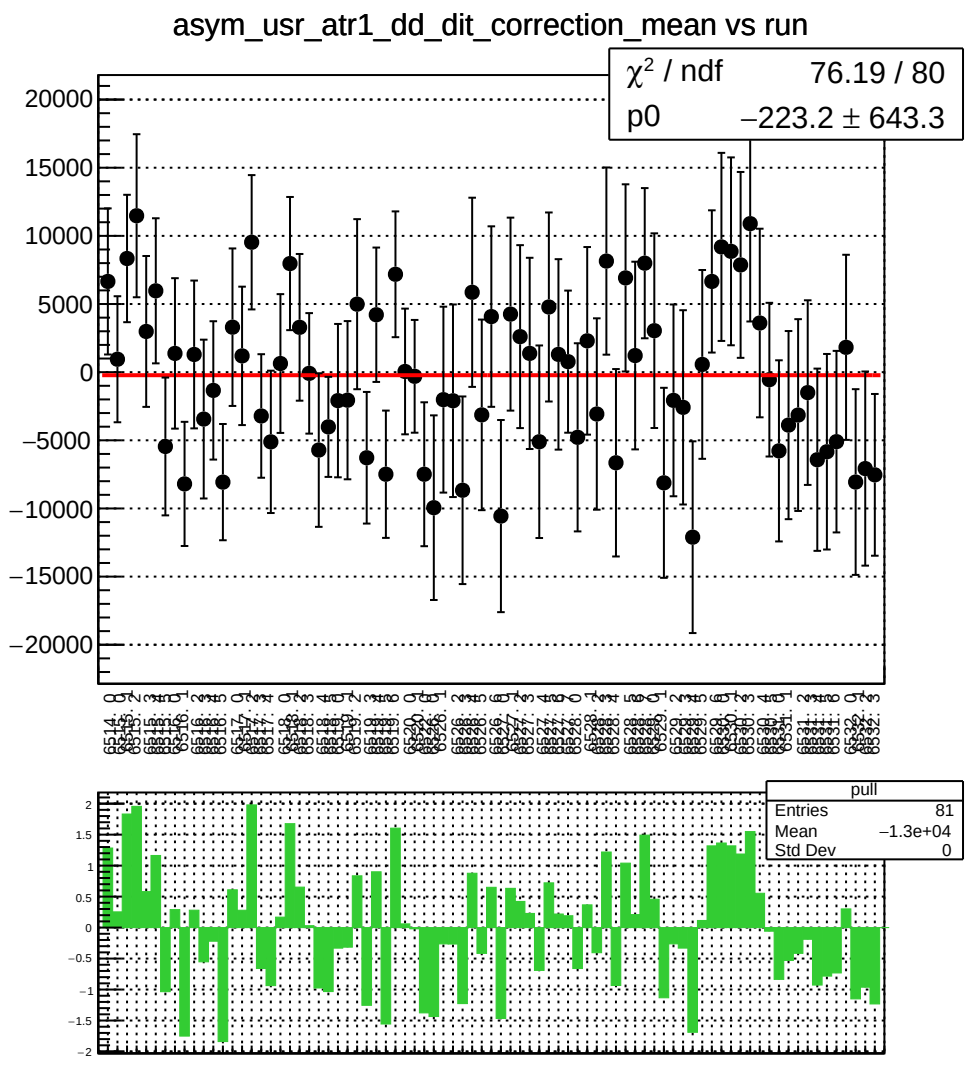

pull1D
Entries 81
Mean 0.001056
Std Dev 0.9735

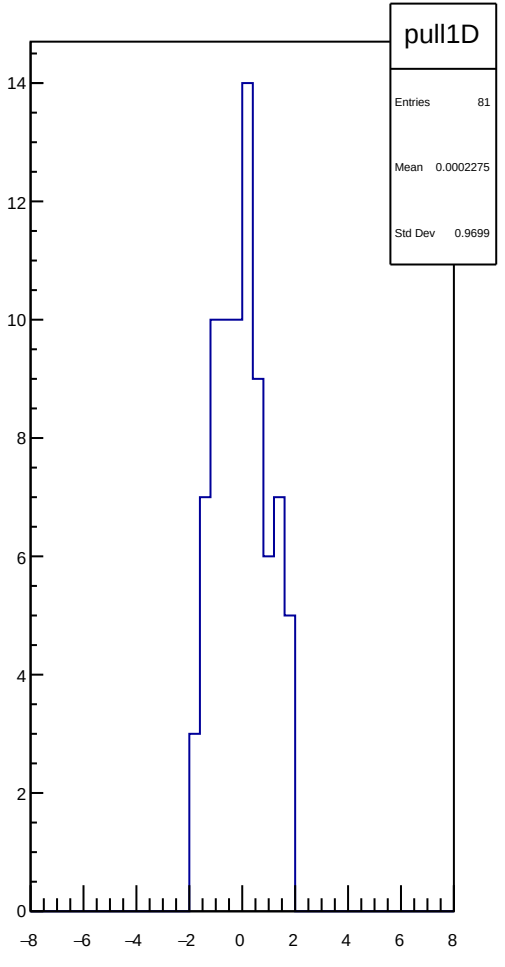

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 4.918e+04 / 80
p0 547.5 ± 0.4453
700
650
600
550
500
450
400
350

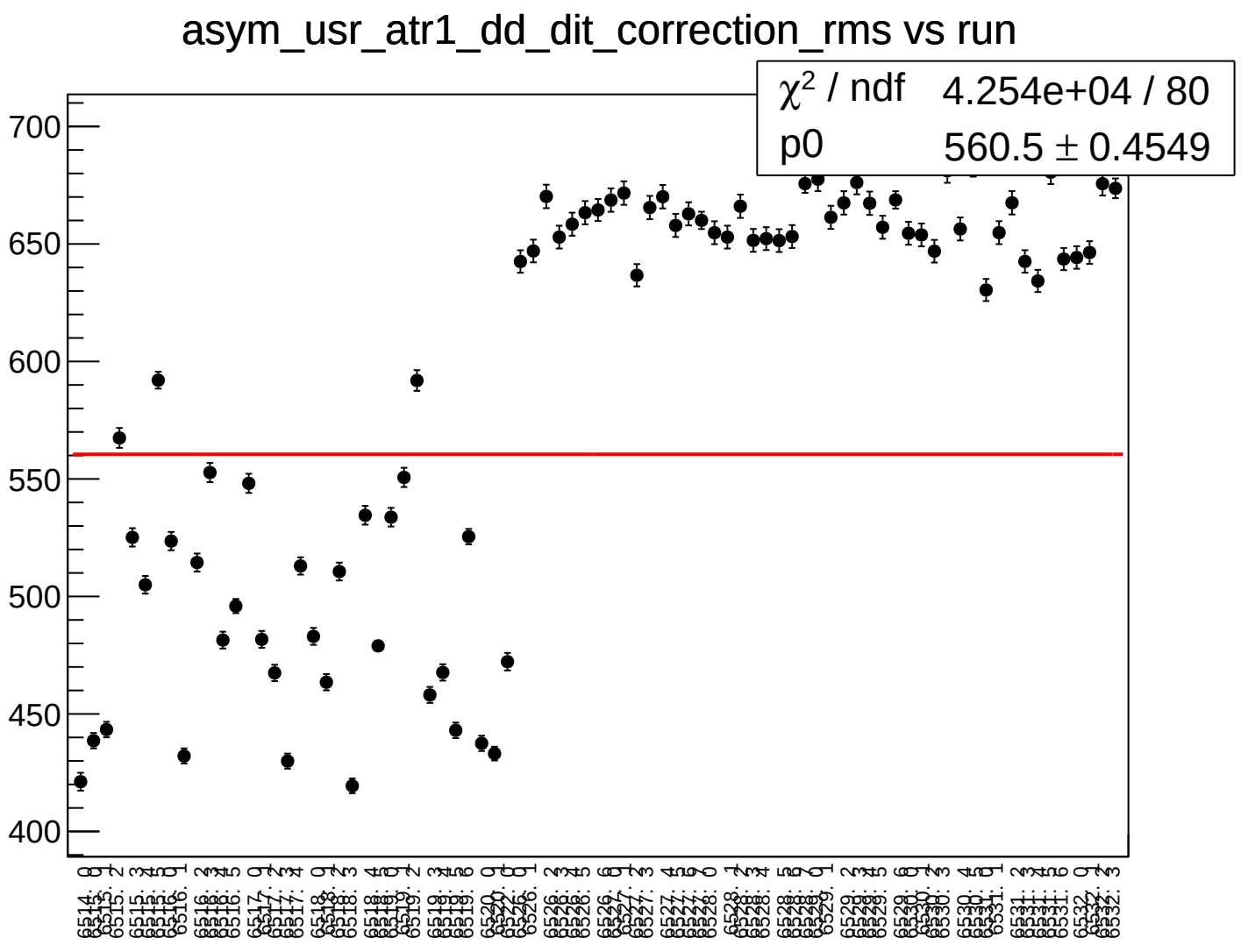

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 73.92 / 80
p0 −641 ± 1484
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −456.7
Std Dev 0
2
1
0
−1
−2

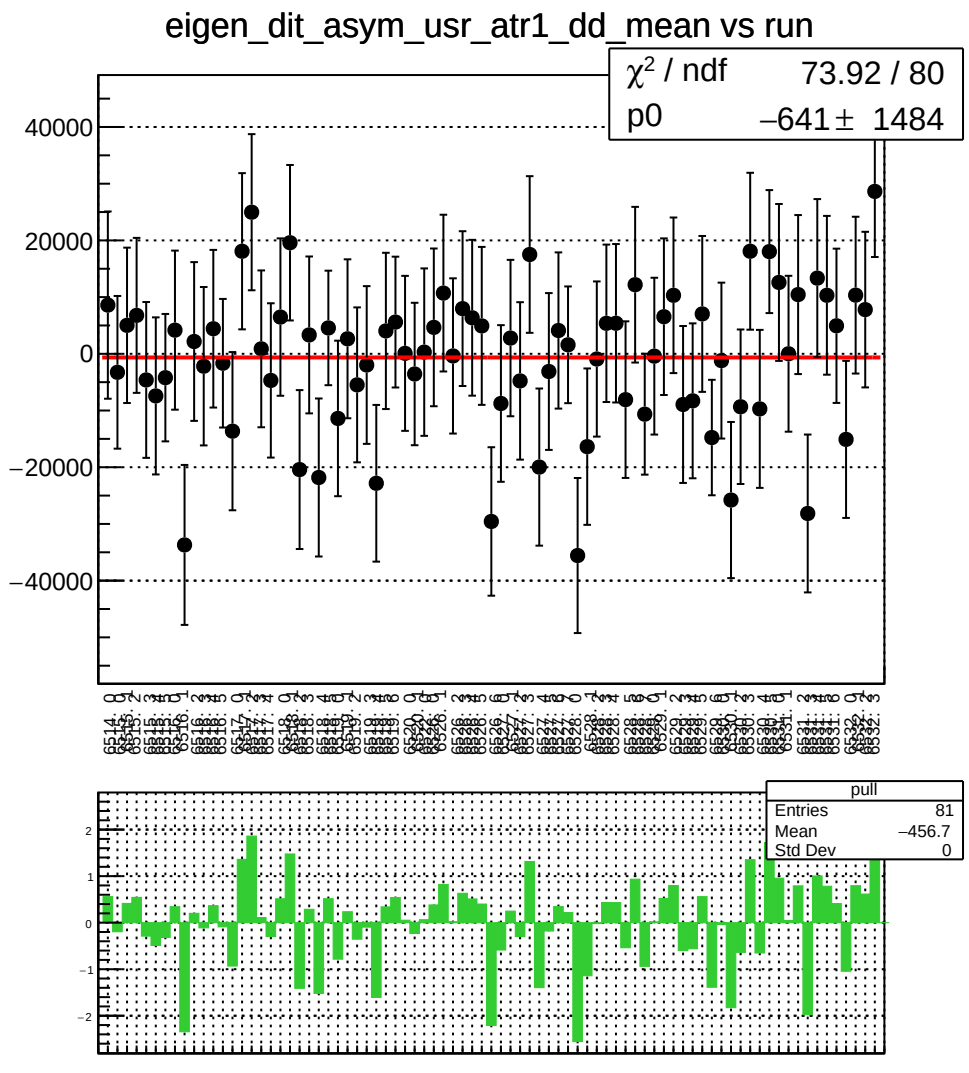

pull1D
Entries 81
Mean −0.003511
Std Dev 0.9553
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

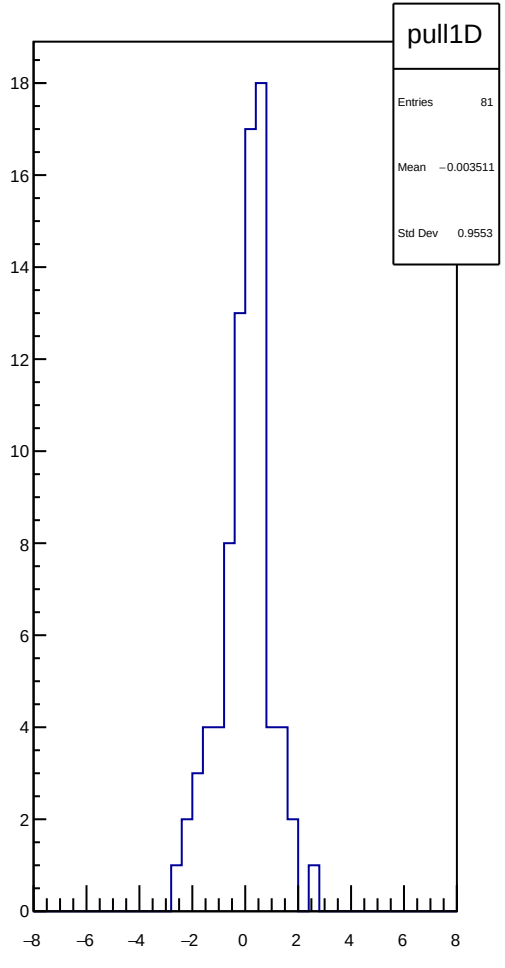

dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 101 / 80
p0 1311 ± 1.05
1350
1340
1330
1320
1310
1300
1290
1280
1270
1260

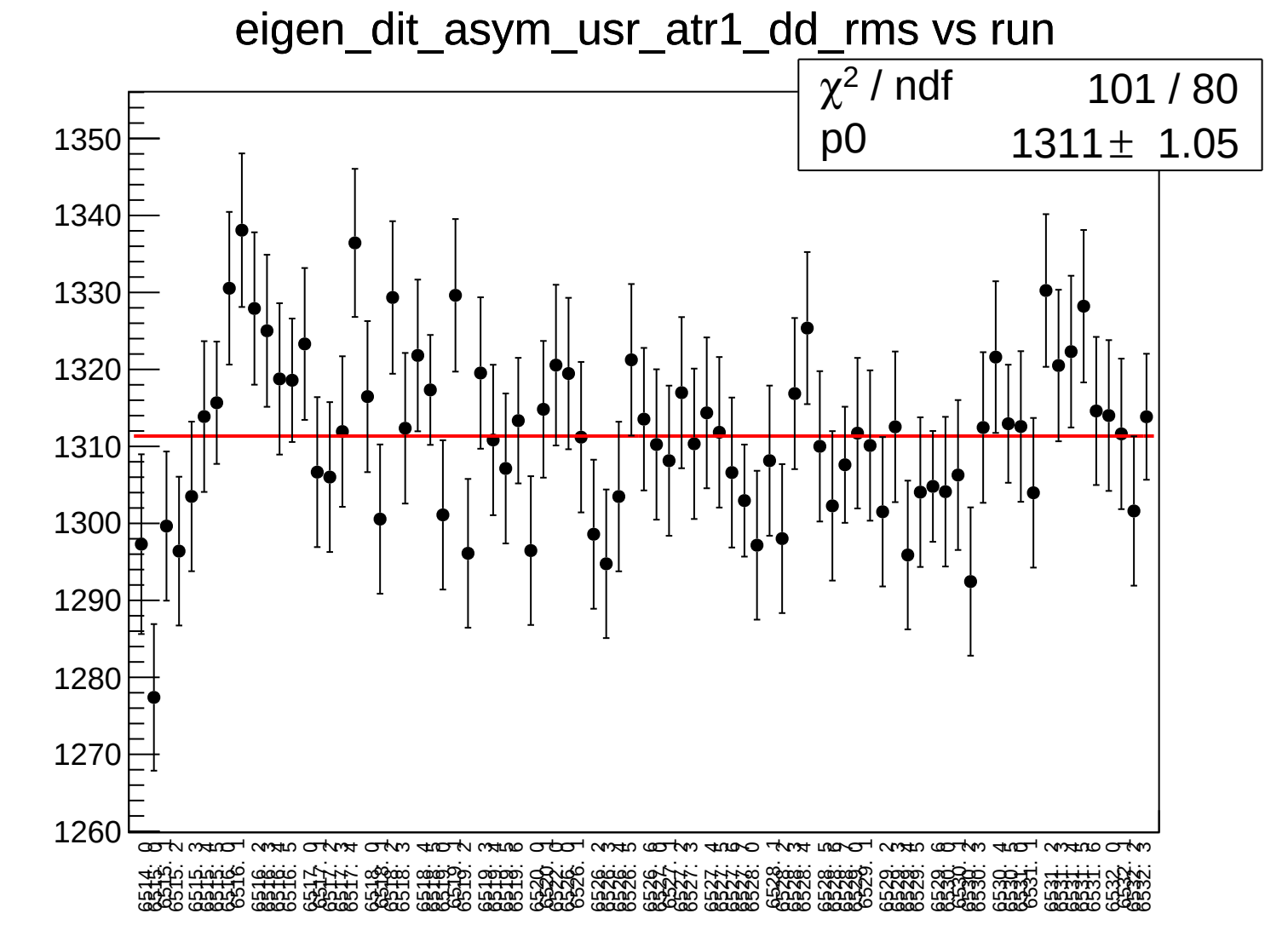

asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 76.19 / 80
p0 −223.2 ± 643.3
pull
Entries 81
Mean −1.3e+04
Std Dev 0

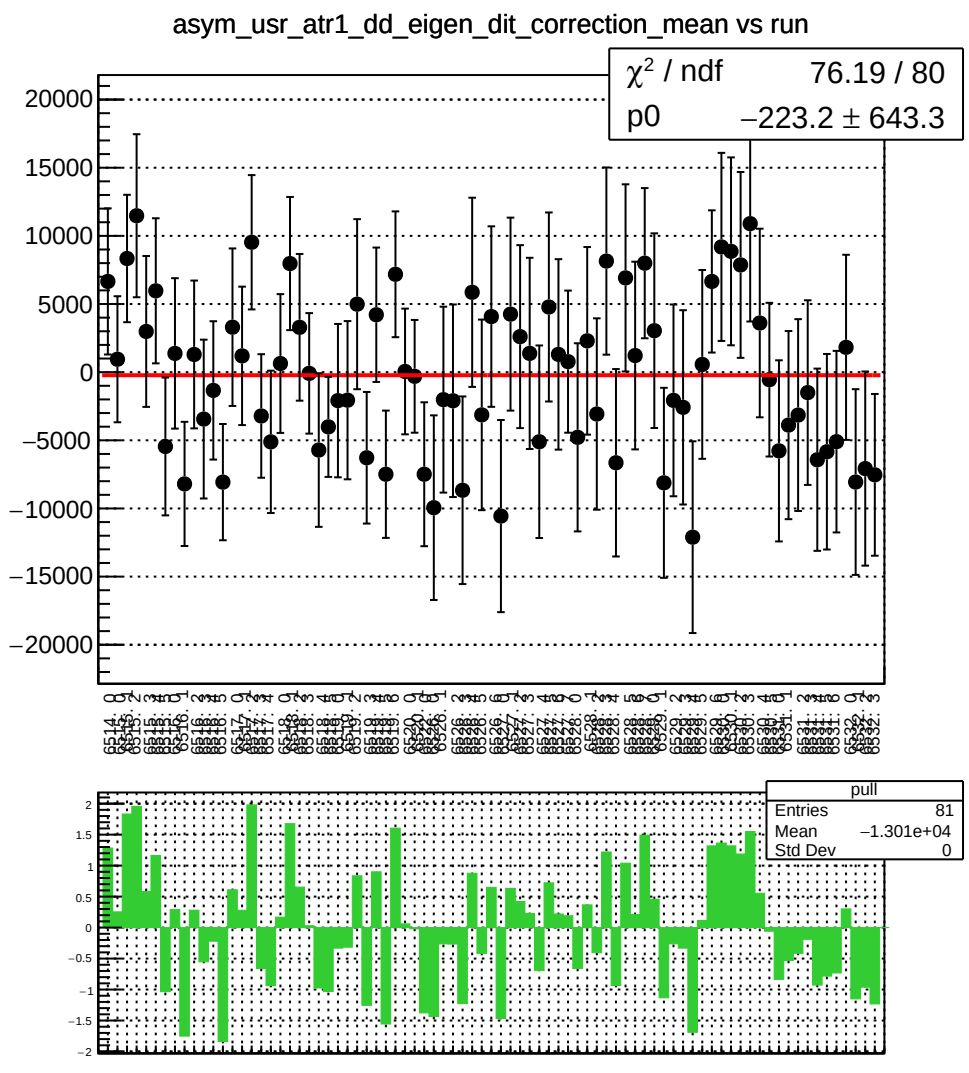

pull1D
Entries 81
Mean 0.0002275
Std Dev 0.9699

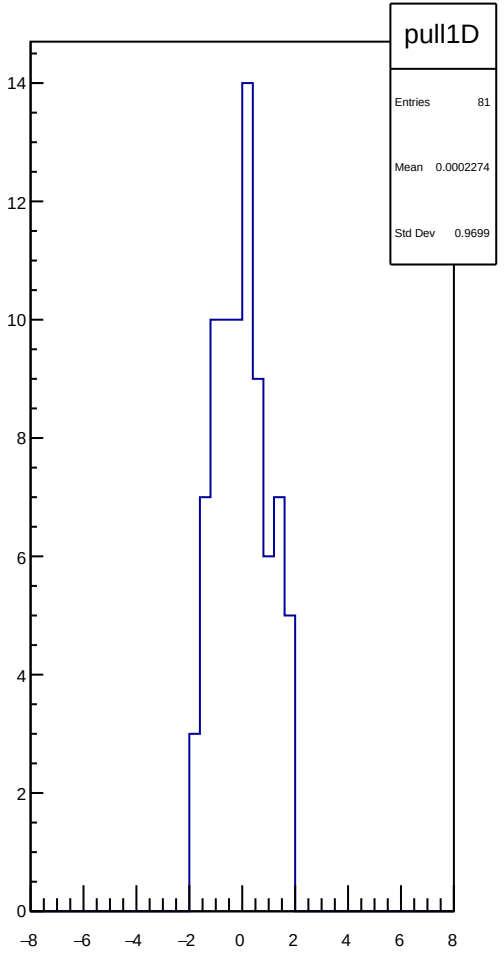

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 4.254e+04 / 80
p0 560.5 ± 0.4549
700
650
600
550
500
450
400

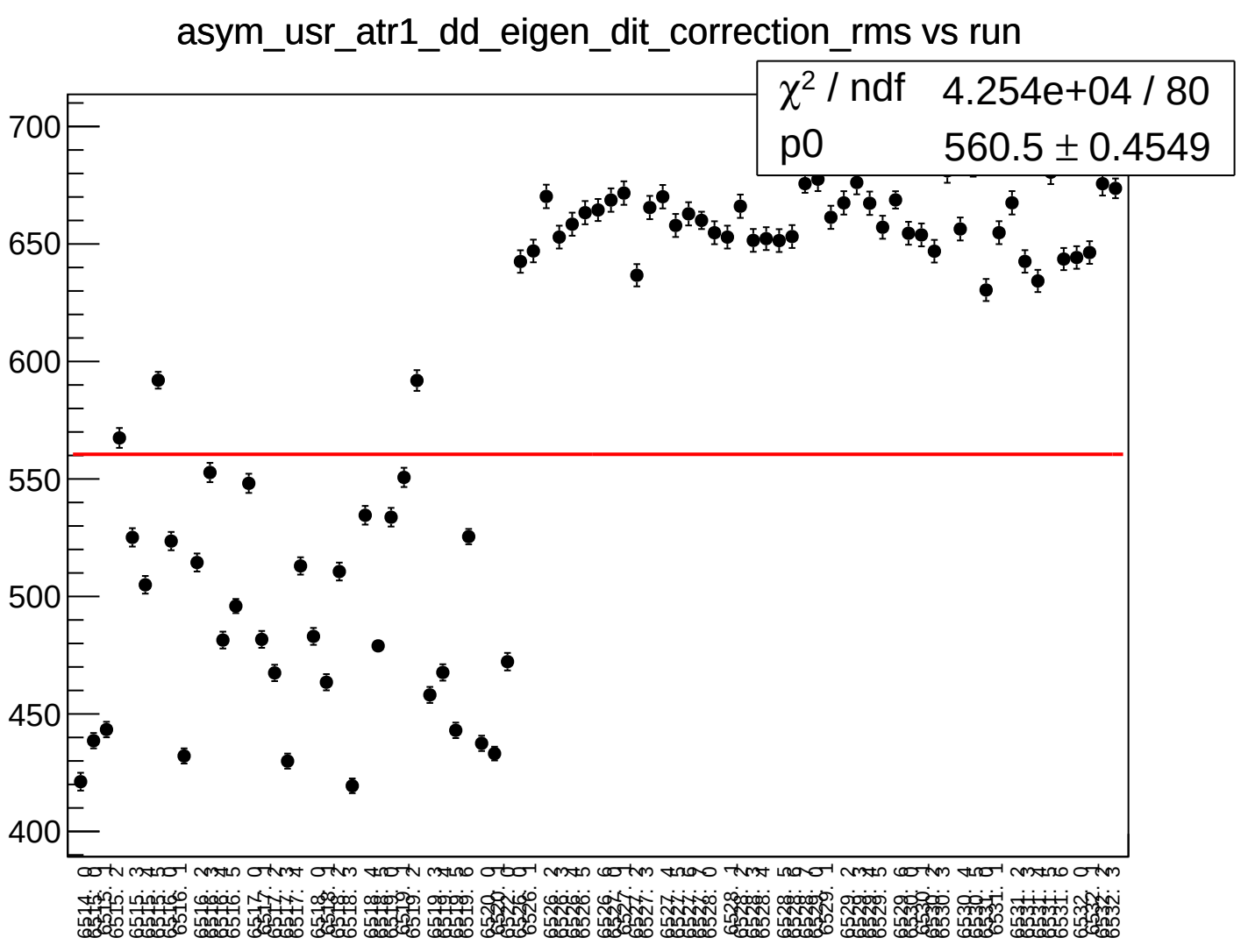

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 73.92 / 80
p0 −641 ± 1484
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −456.7
Std Dev 0
2
1
0
−1
−2

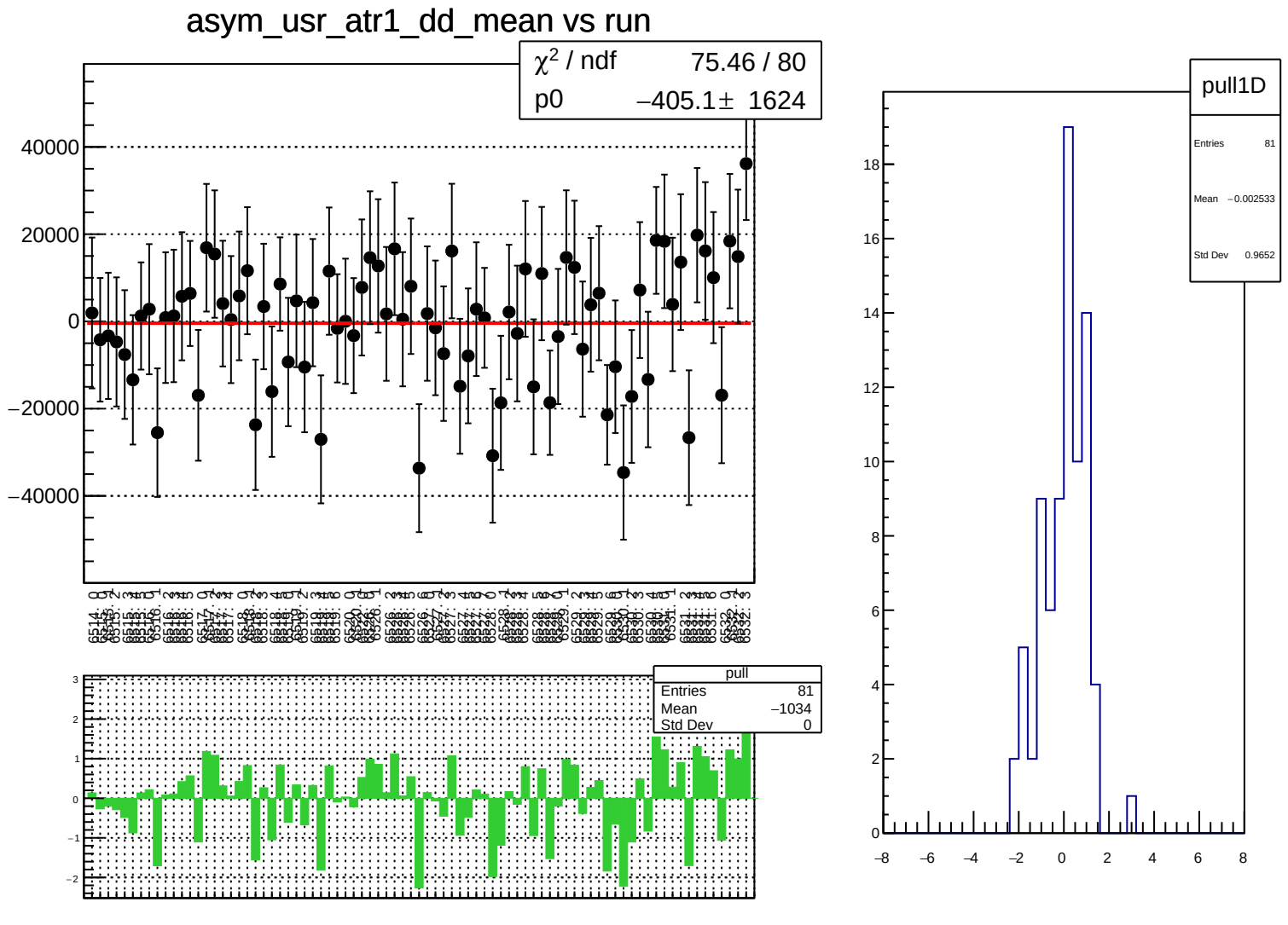

pull1D
Entries 81
Mean −0.003511
Std Dev 0.9553
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

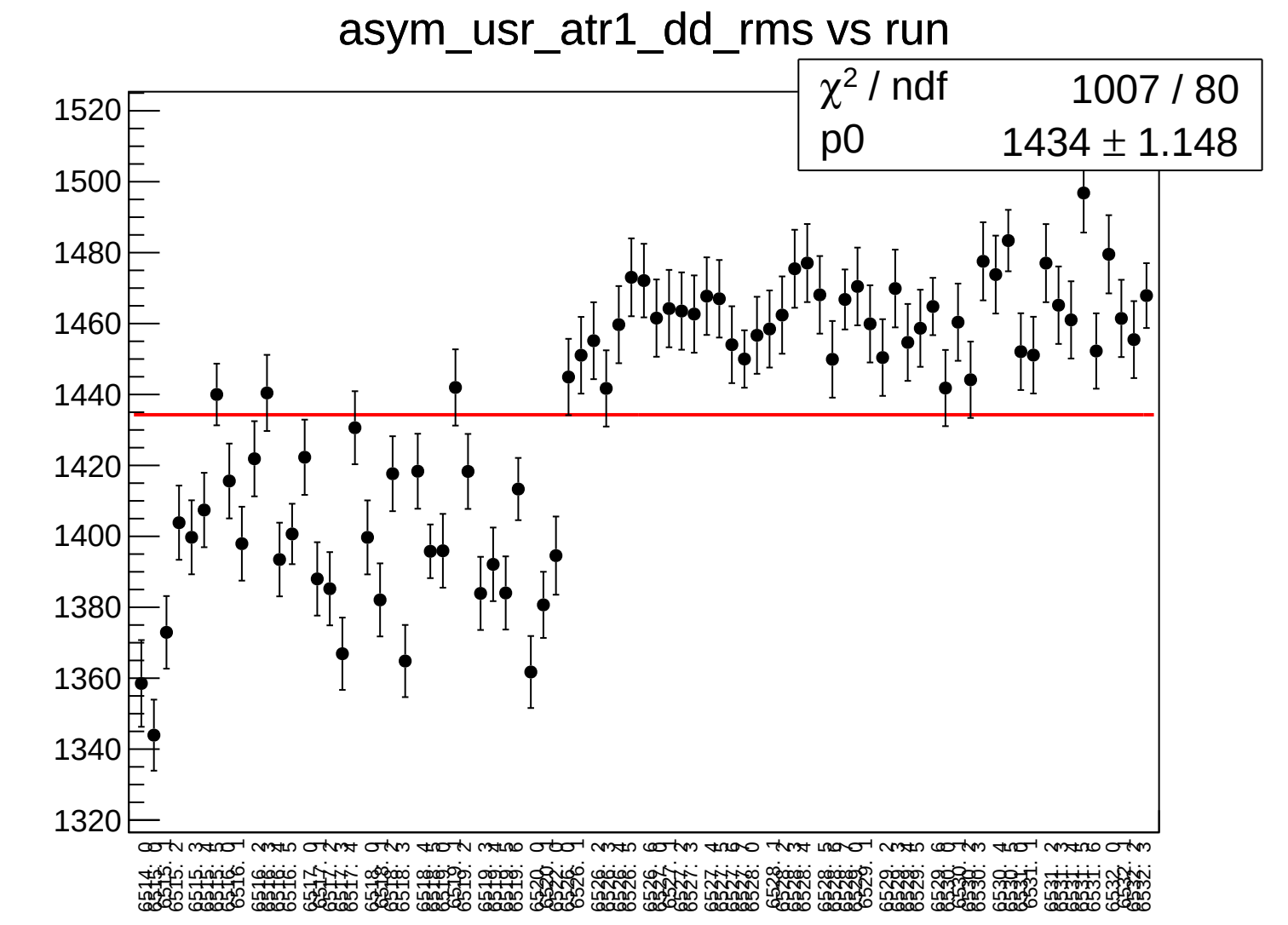

eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 101 / 80
p0 1311 ± 1.05
1350
1340
1330
1320
1310
1300
1290
1280
1270
1260

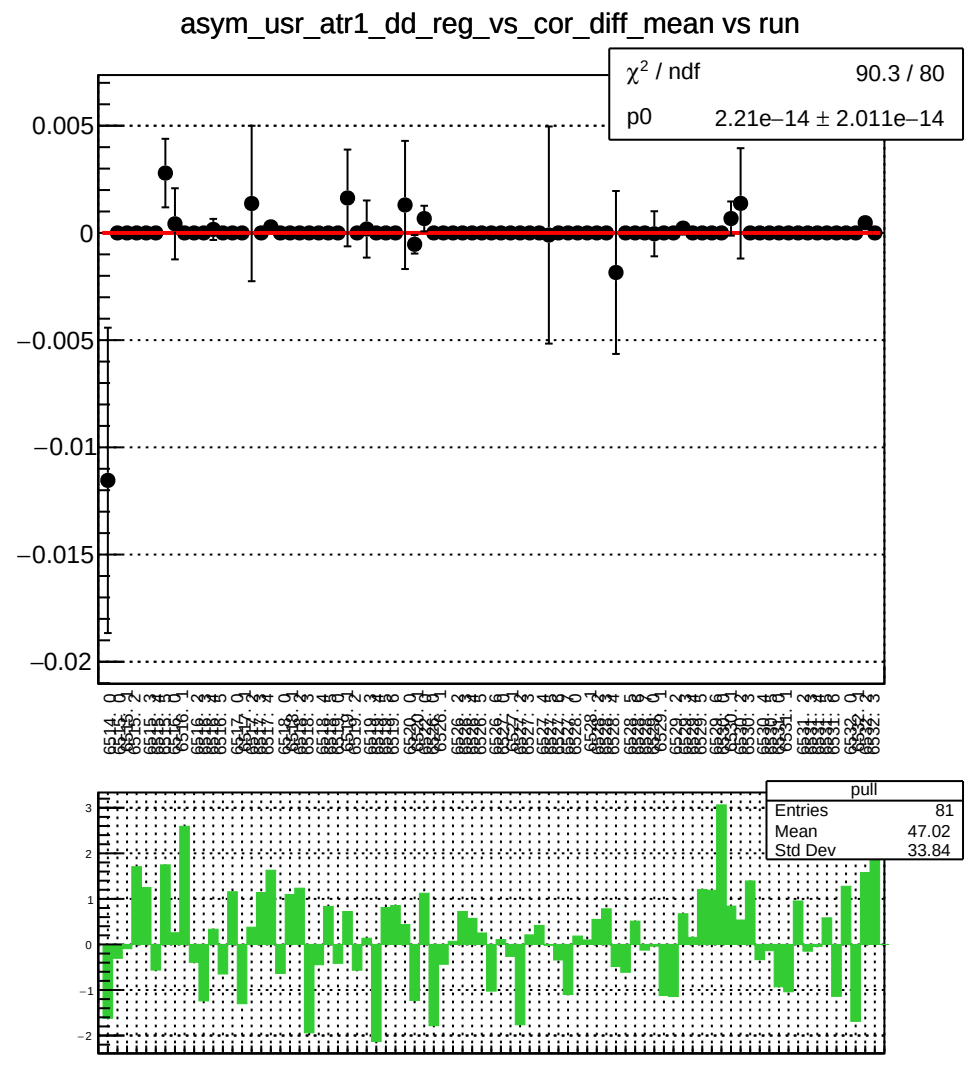

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 76.19 / 80
p0 −223.2 ± 643.3
pull
Entries 81
Mean −1.301e+04
Std Dev 0

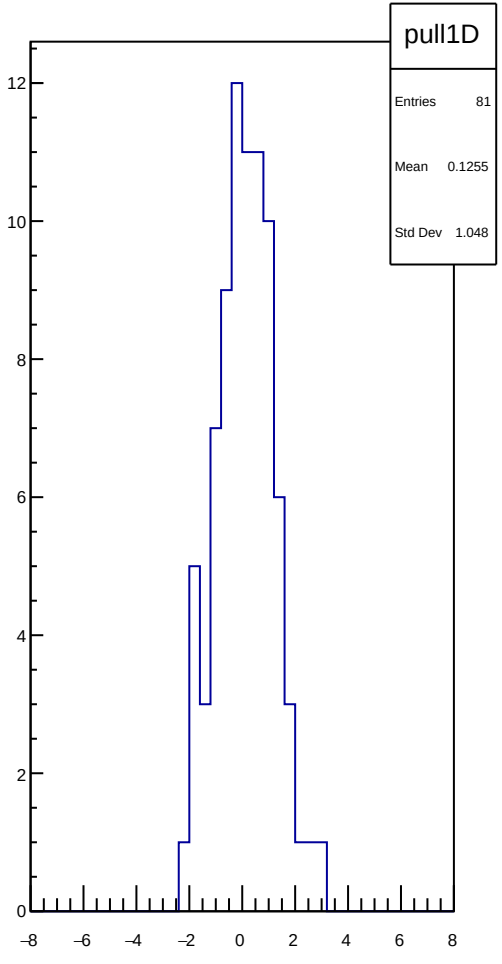

pull1D
Entries 81
Mean 0.0002274
Std Dev 0.9699

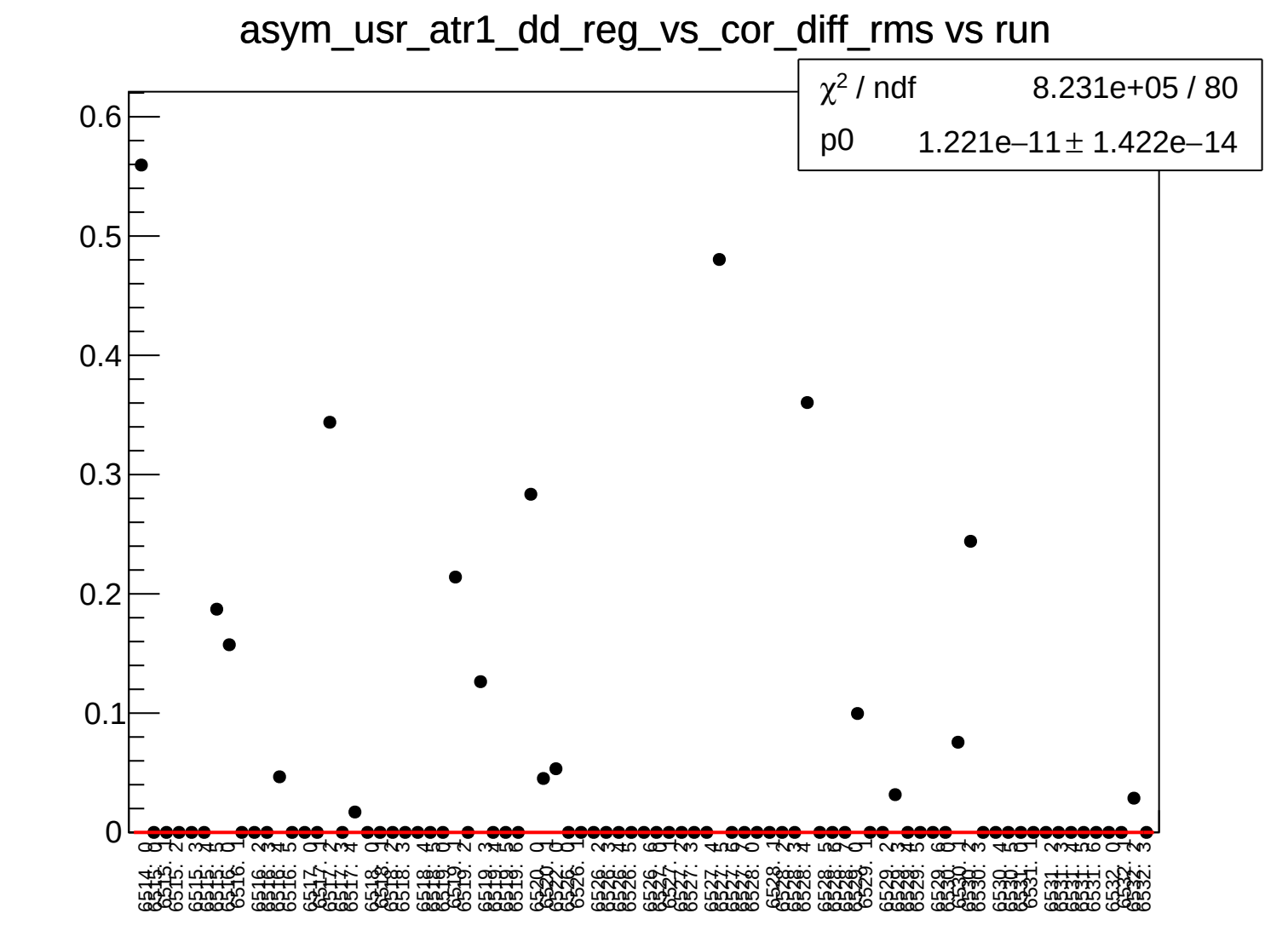

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 4.254e+04 / 80
p0 560.5 ± 0.4549
700
650
600
550
500
450
400

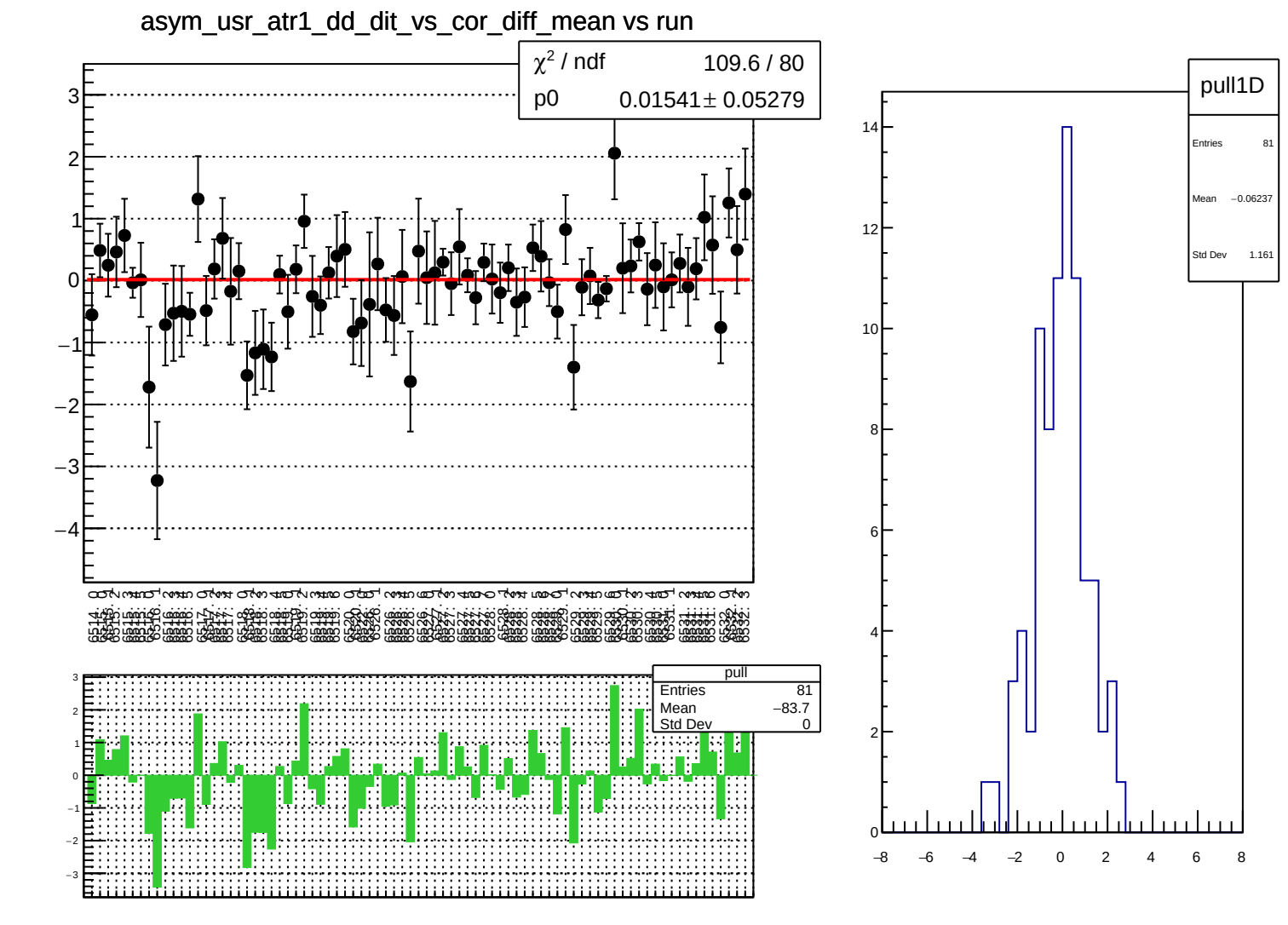

asym_usr_atr1_dd_mean vs run
χ² / ndf 75.46 / 80
p0 −405.1± 1624
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −1034
Std Dev 0
pull1D
Entries 81
Mean −0.002533
Std Dev 0.9652

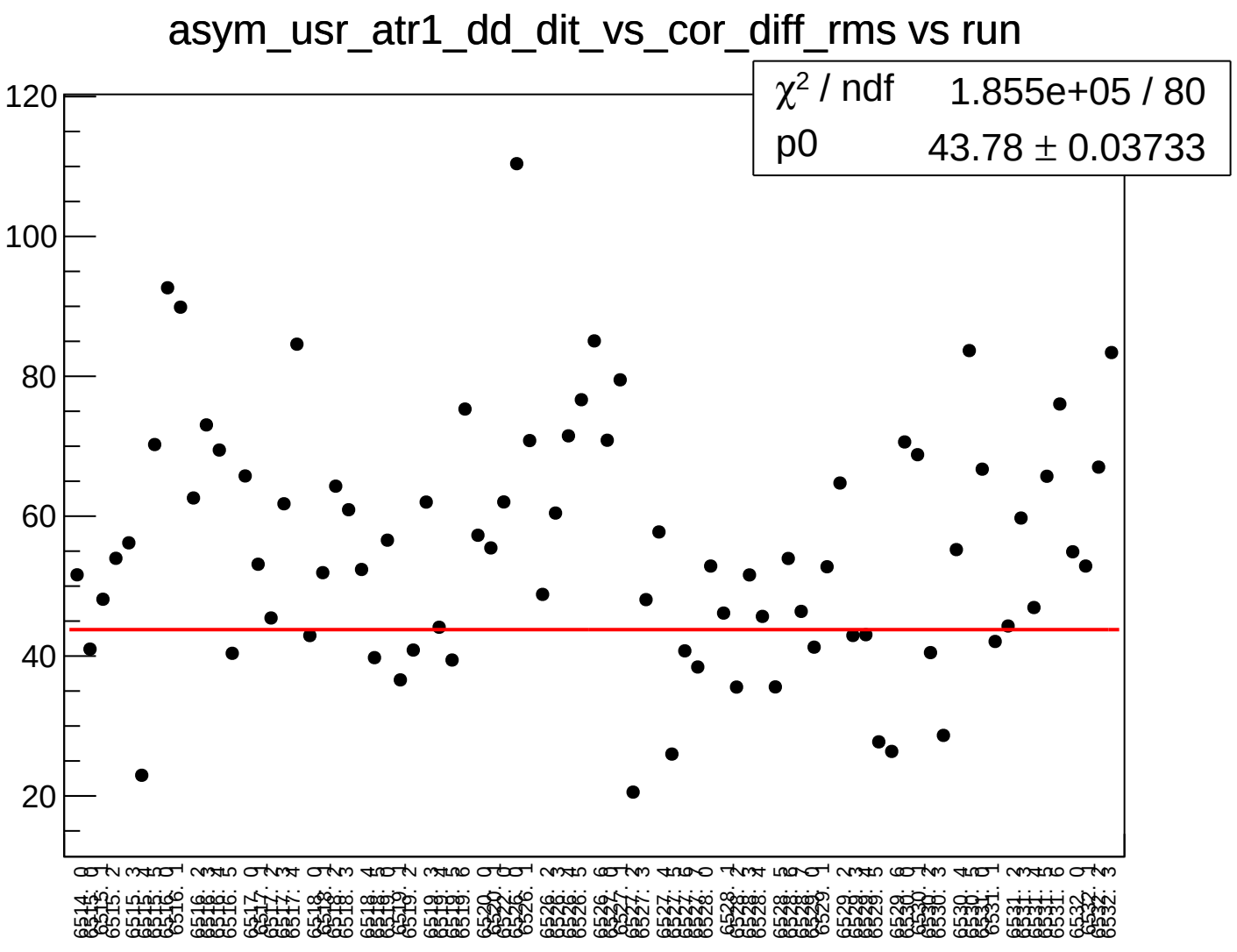

asym_usr_atr1_dd_rms vs run
χ² / ndf 1007 / 80
p0 1434 ± 1.148
1520
1500
1480
1460
1440
1420
1400
1380
1360
1340
1320

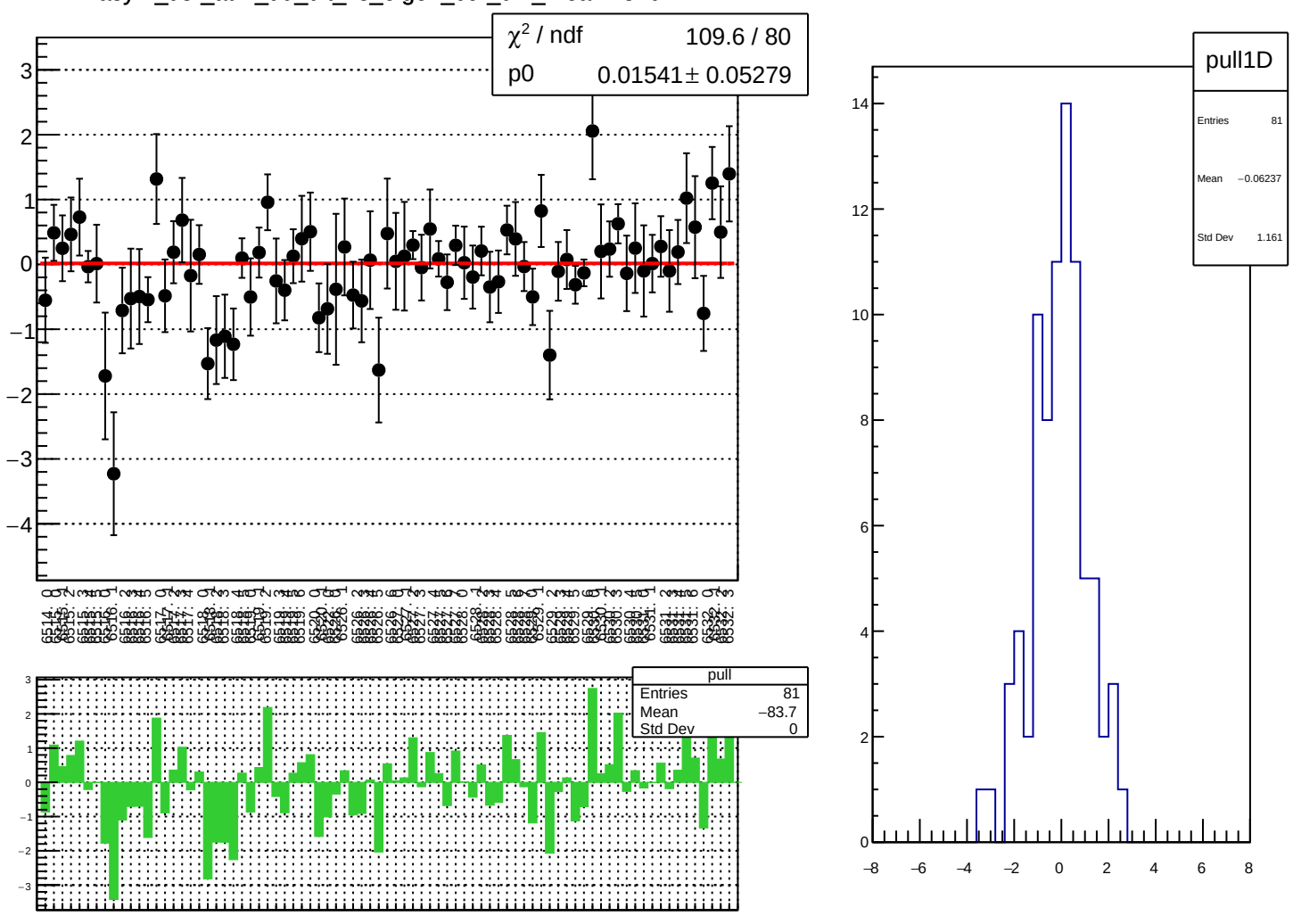

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 90.3 / 80
p0 2.21e−14 ± 2.011e−14
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 81
Mean 47.02
Std Dev 33.84
3
2
1
0
−1
−2

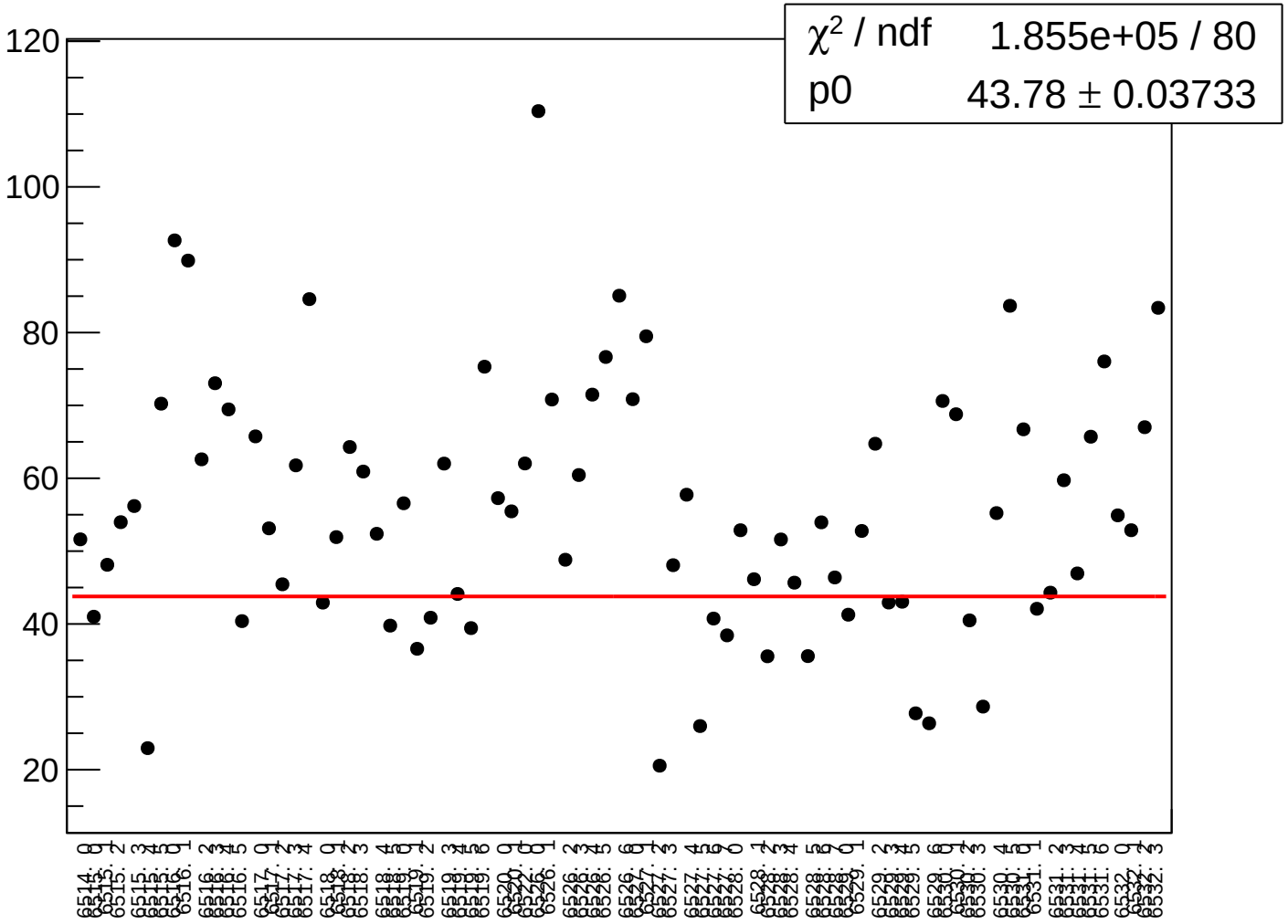

pull1D
Entries 81
Mean 0.1255
Std Dev 1.048
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

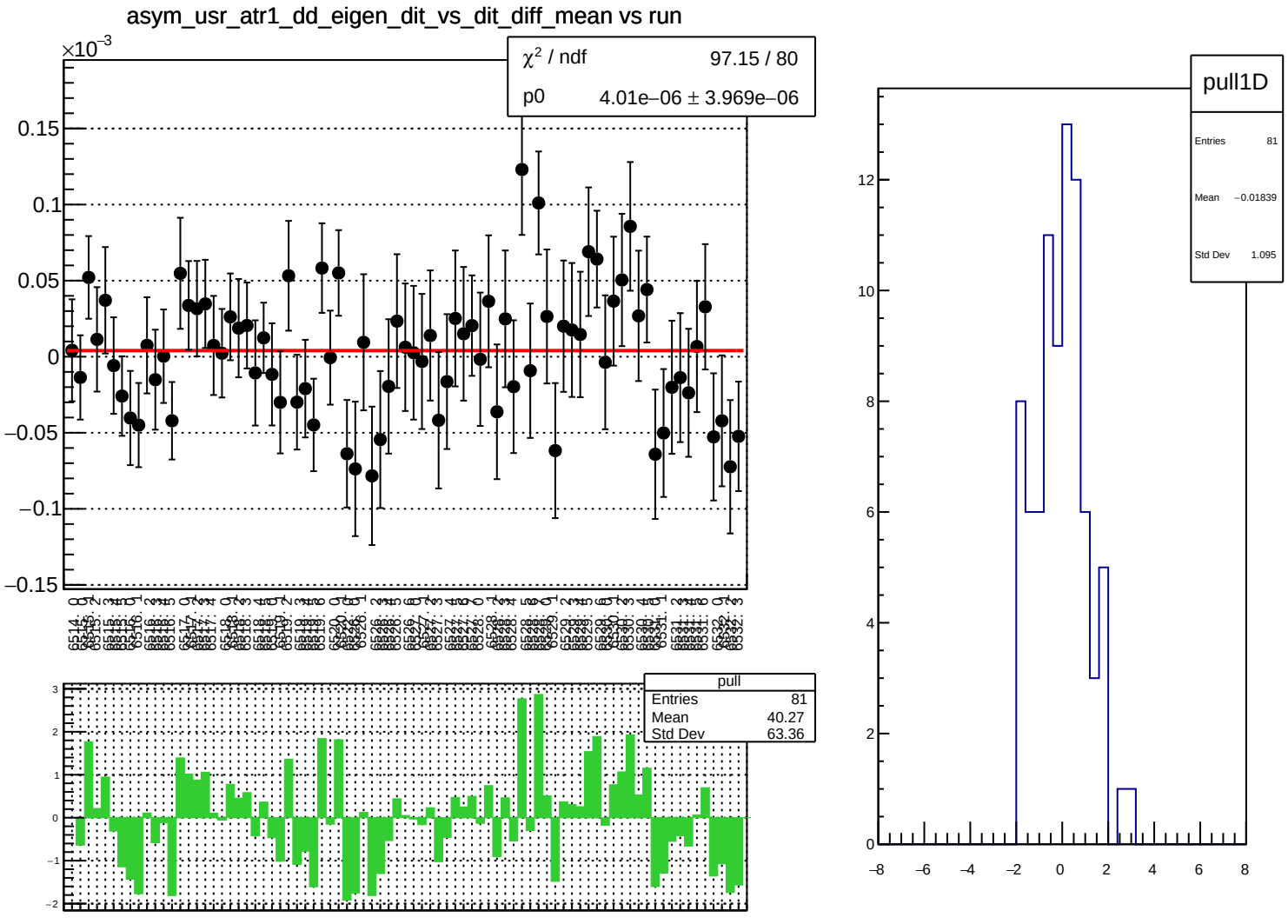

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.231e+05 / 80
p0 1.221e−11 ± 1.422e−14
0.6
0.5
0.4
0.3
0.2
0.1
0

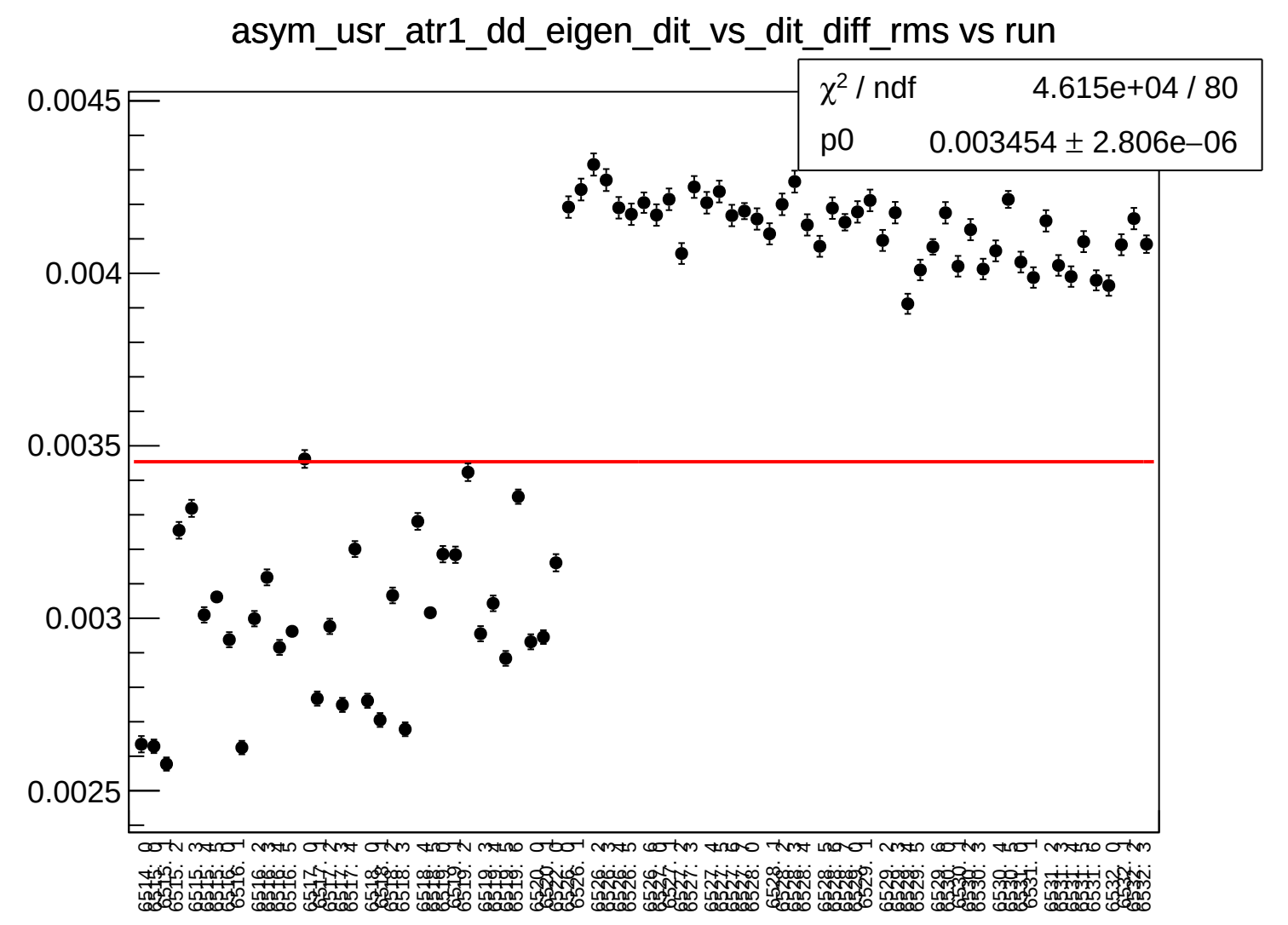

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 109.6 / 80
p0 0.01541 ± 0.05279
pull
Entries 81
Mean −83.7
Std Dev 0
pull1D
Entries 81
Mean −0.06237
Std Dev 1.161

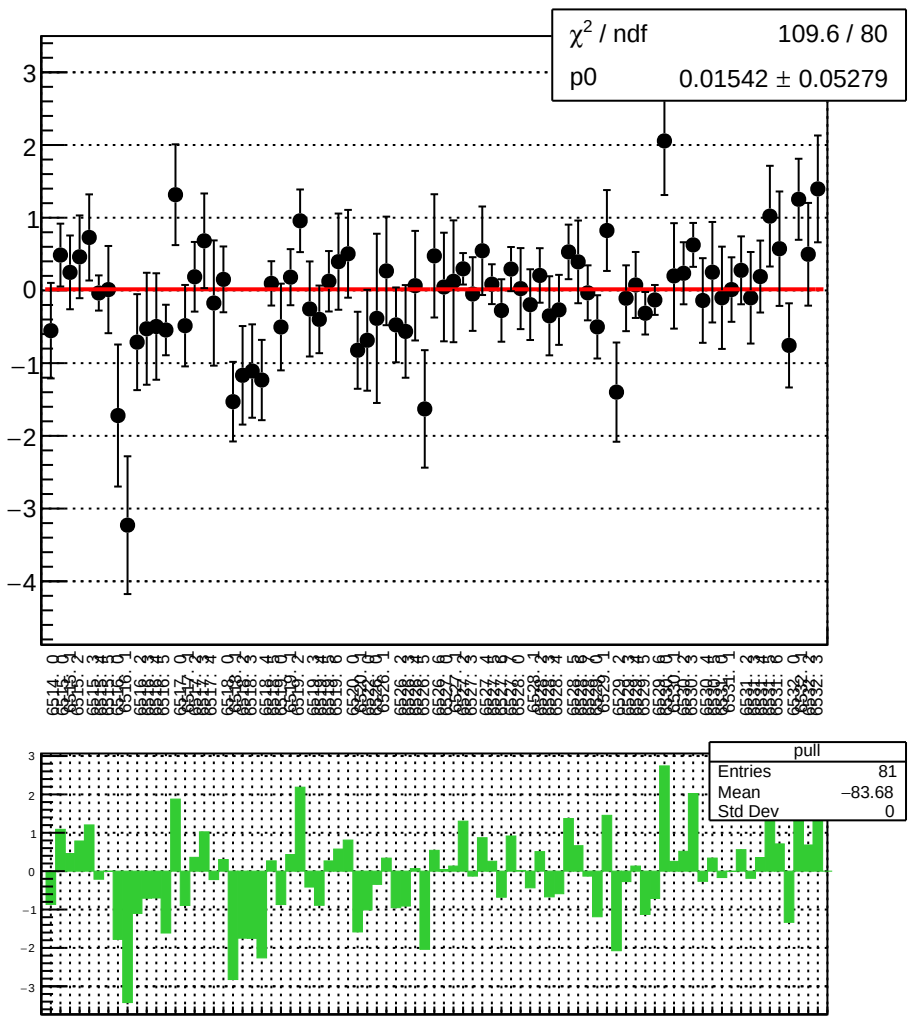

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.855e+05 / 80
p0 43.78 ± 0.03733
120
100
80
60
40
20

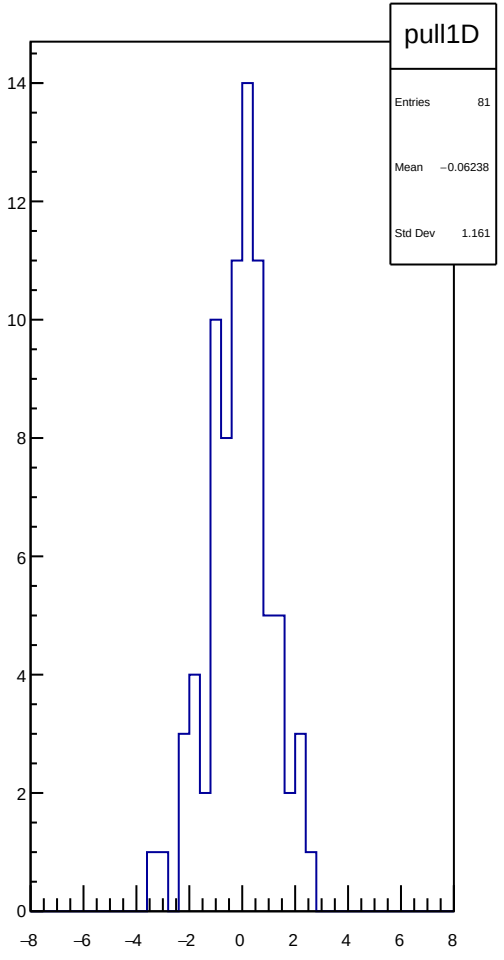

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.6 / 80
p0 0.01541 ± 0.05279
pull
Entries 81
Mean −83.7
Std Dev 0
pull1D
Entries 81
Mean −0.06237
Std Dev 1.161

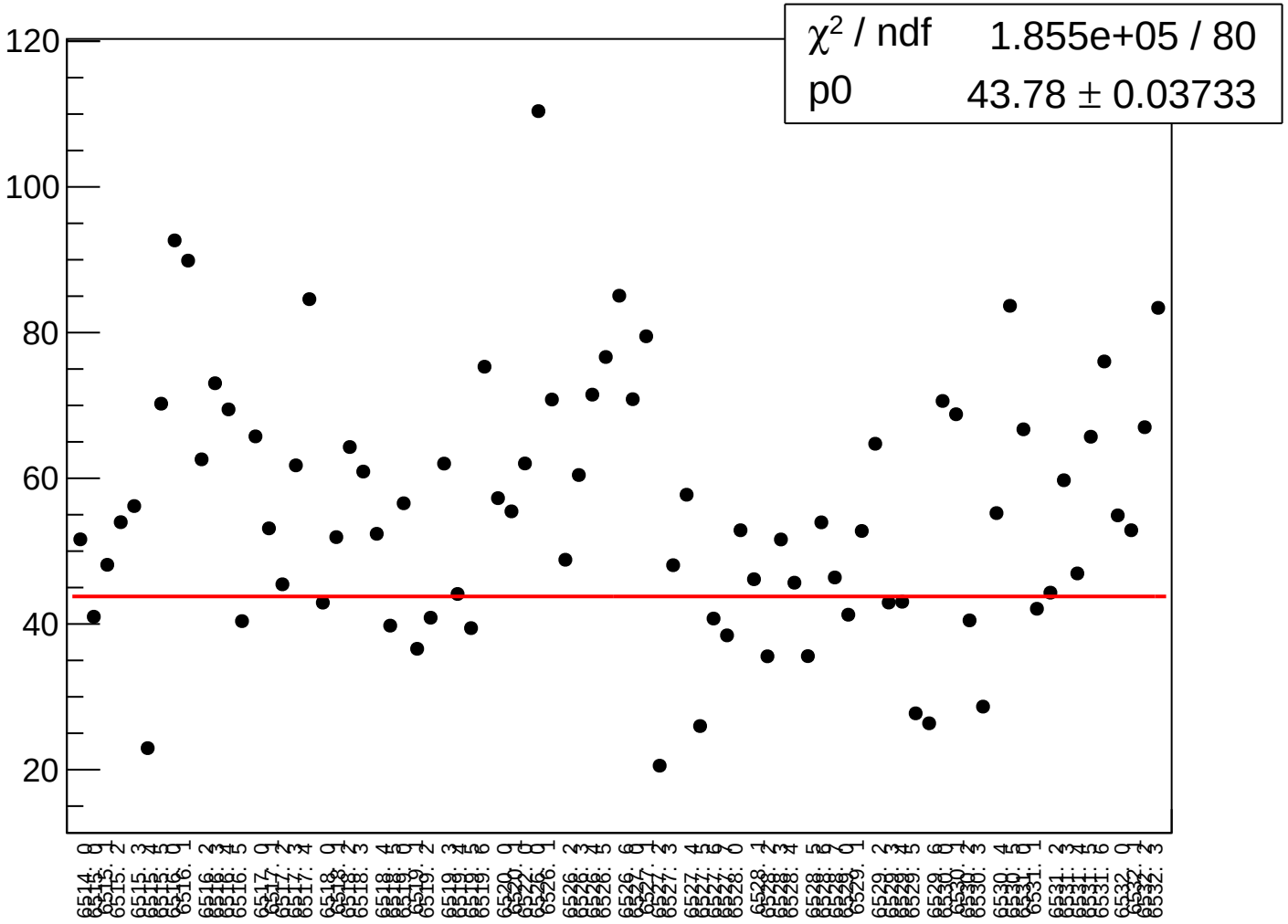

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.855e+05 / 80
p0 43.78 ± 0.03733
120
100
80
60
40
20

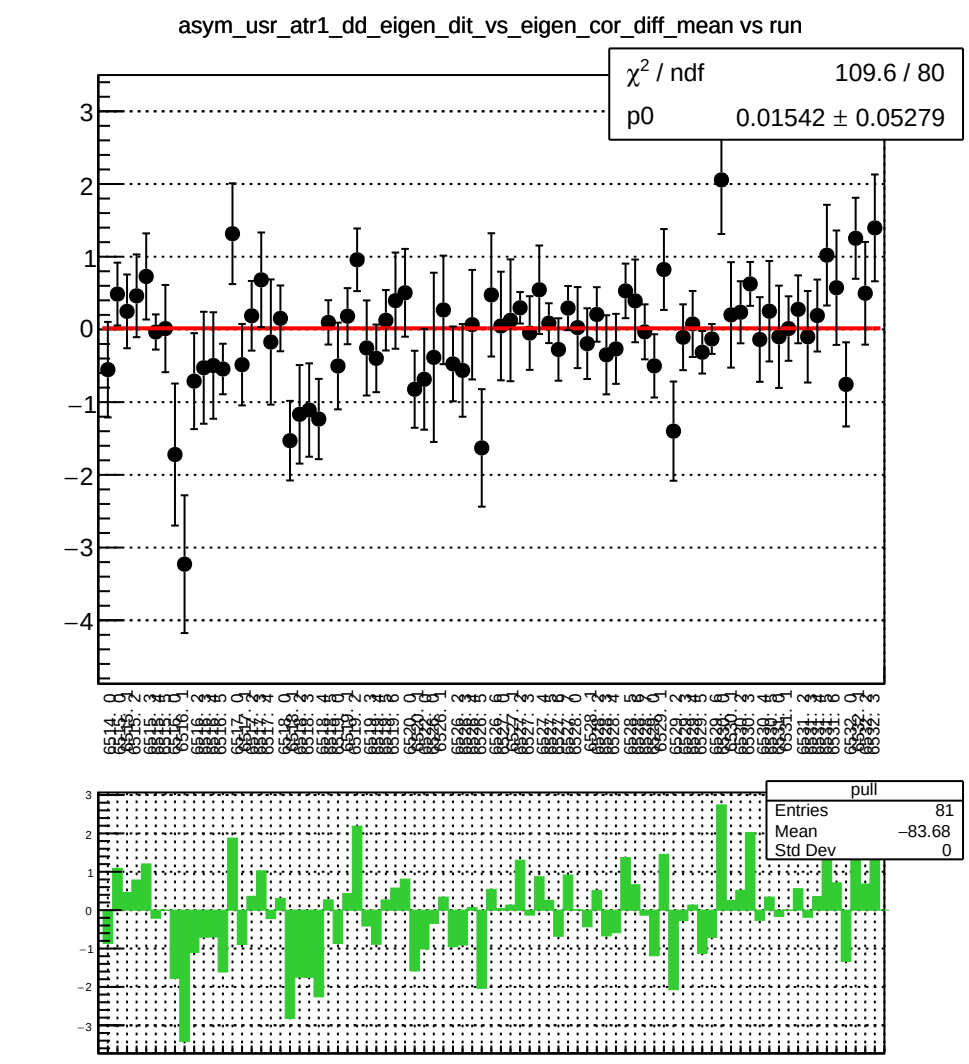

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.15 / 80
p0 4.01e−06 ± 3.969e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 81
Mean 40.27
Std Dev 63.36
3
2
1
0
−1
−2
pull1D
Entries 81
Mean −0.01839
Std Dev 1.095
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

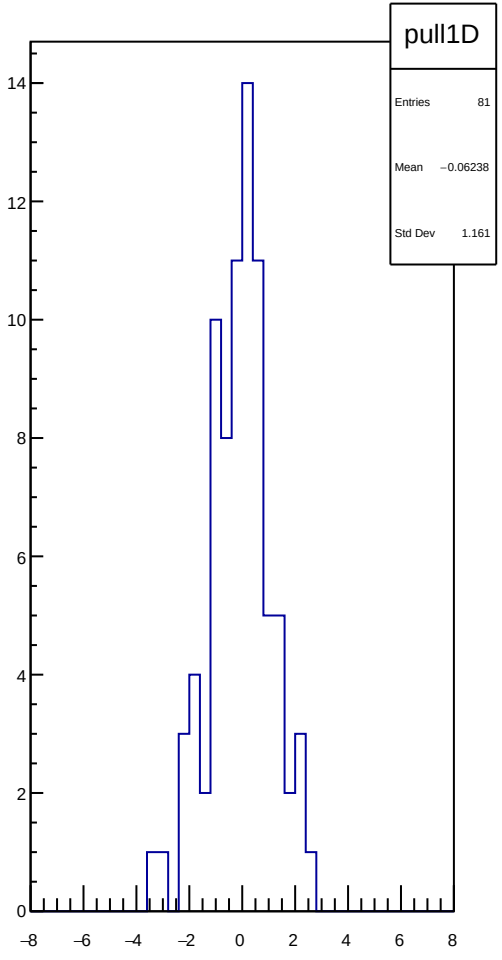

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.615e+04 / 80
p0 0.003454 ± 2.806e−06
0.0045
0.004
0.0035
0.003
0.0025

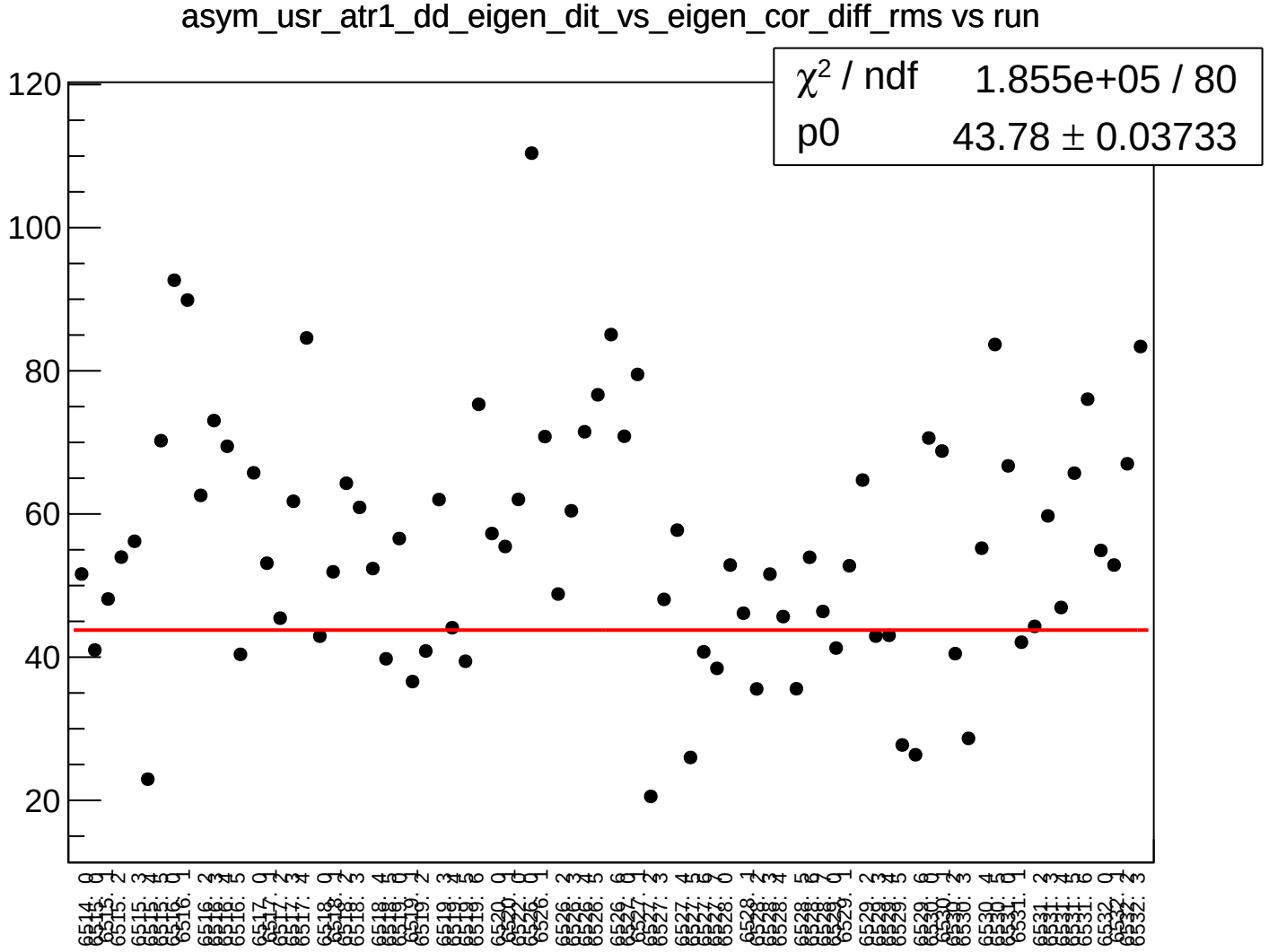

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 109.6 / 80
p0 0.01542 ± 0.05279
pull
Entries 81
Mean −83.68
Std Dev 0

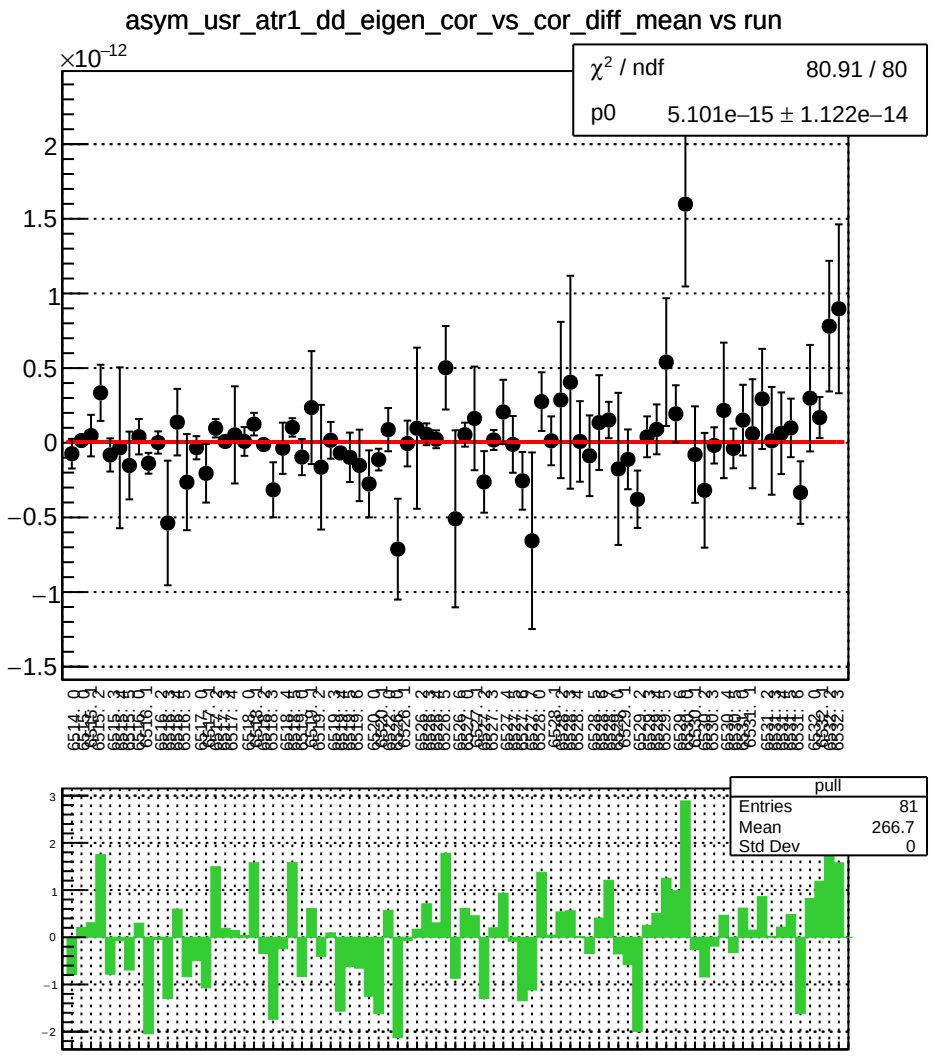

pull1D
Entries 81
Mean −0.06238
Std Dev 1.161

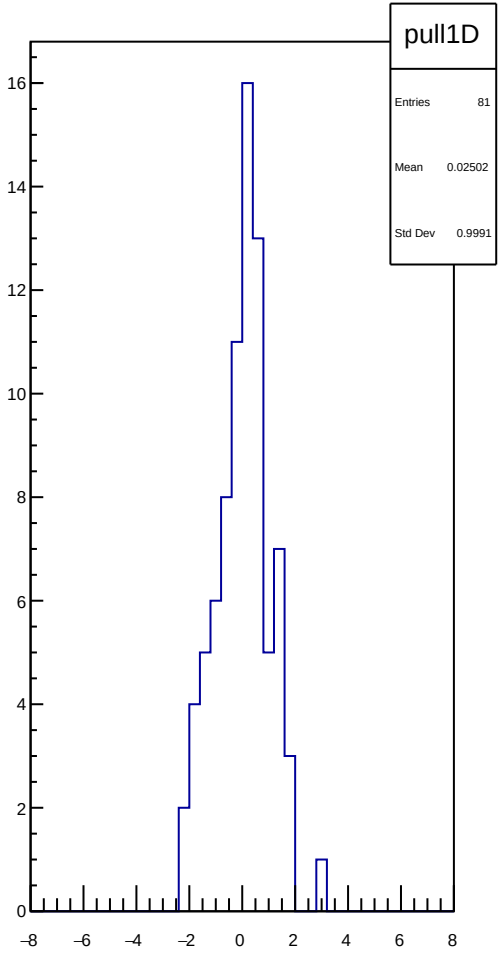

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.855e+05 / 80
p0 43.78 ± 0.03733
120
100
80
60
40
20

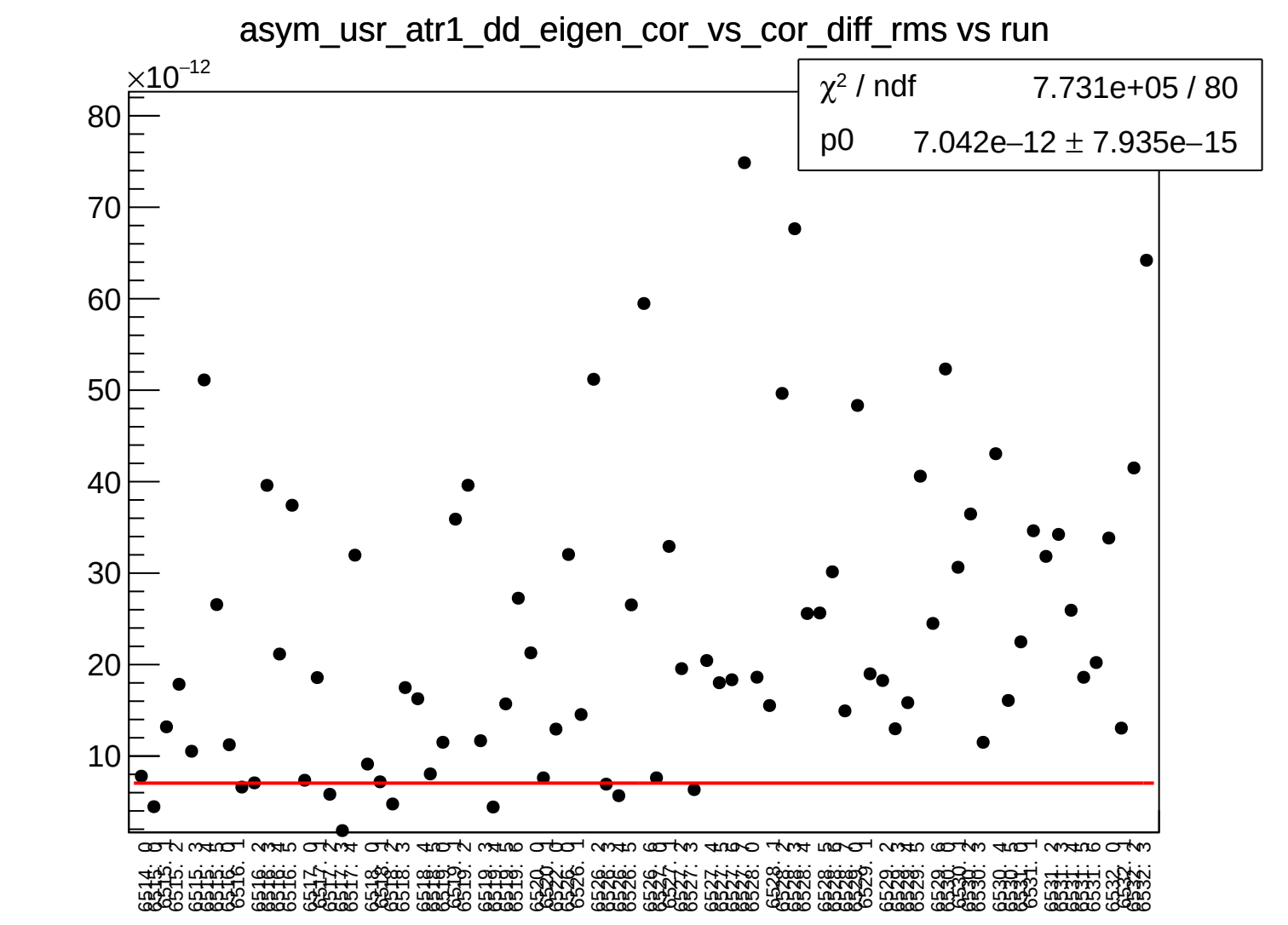

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.6 / 80
p0 0.01542 ± 0.05279
pull
Entries 81
Mean −83.68
Std Dev 0

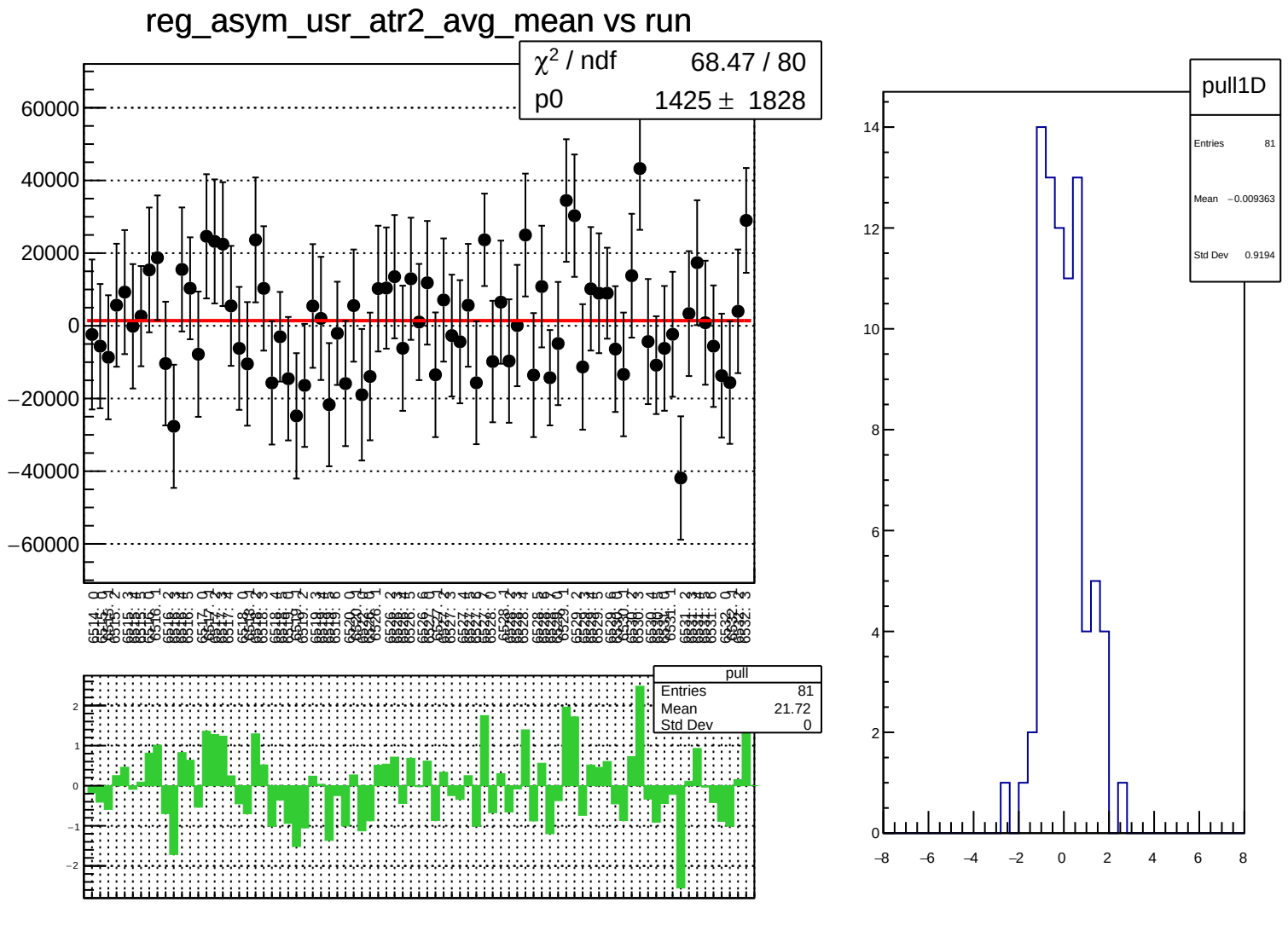

pull1D
Entries 81
Mean −0.06238
Std Dev 1.161

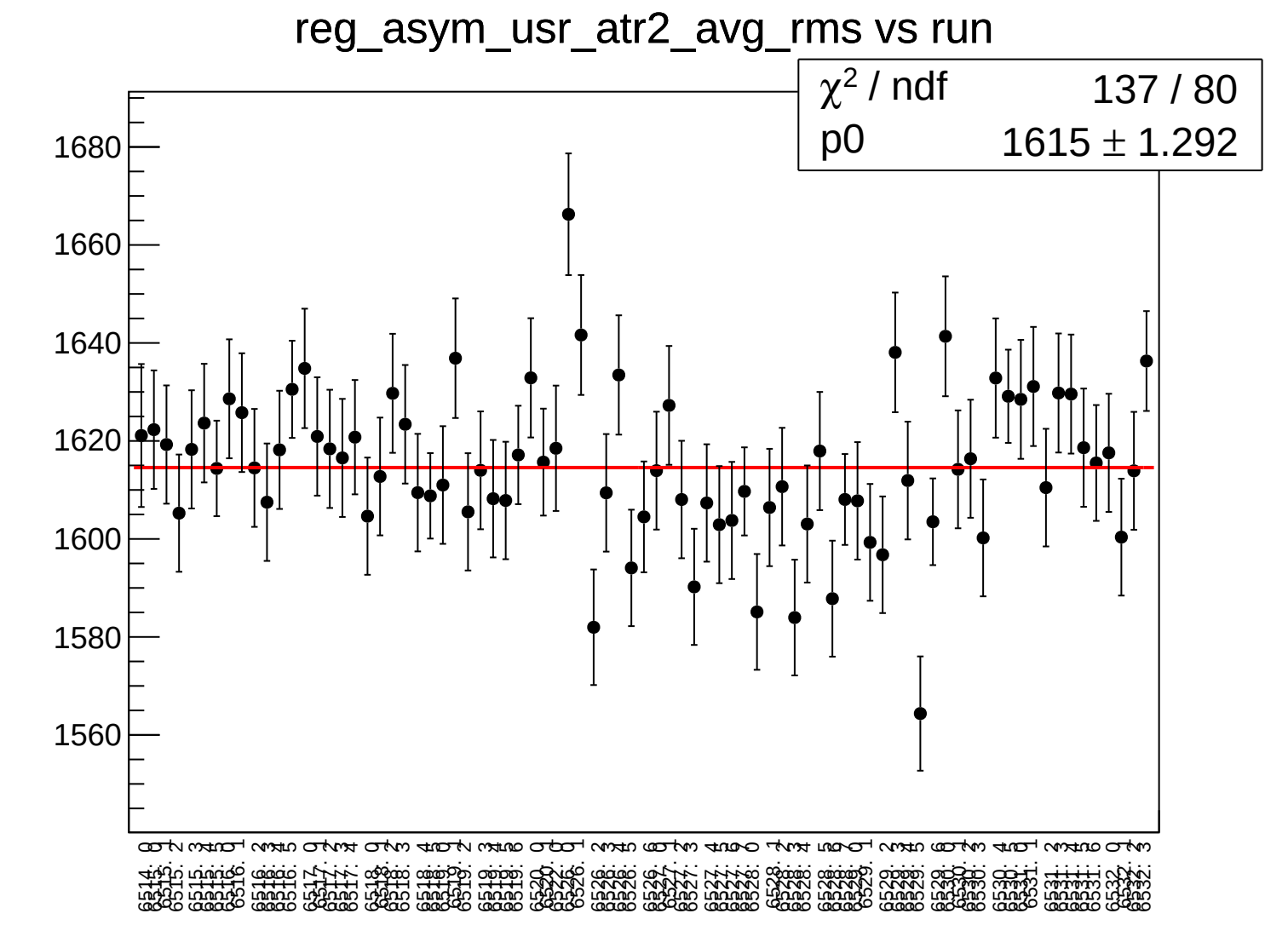

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.855e+05 / 80
p0 43.78 ± 0.03733
120
100
80
60
40
20

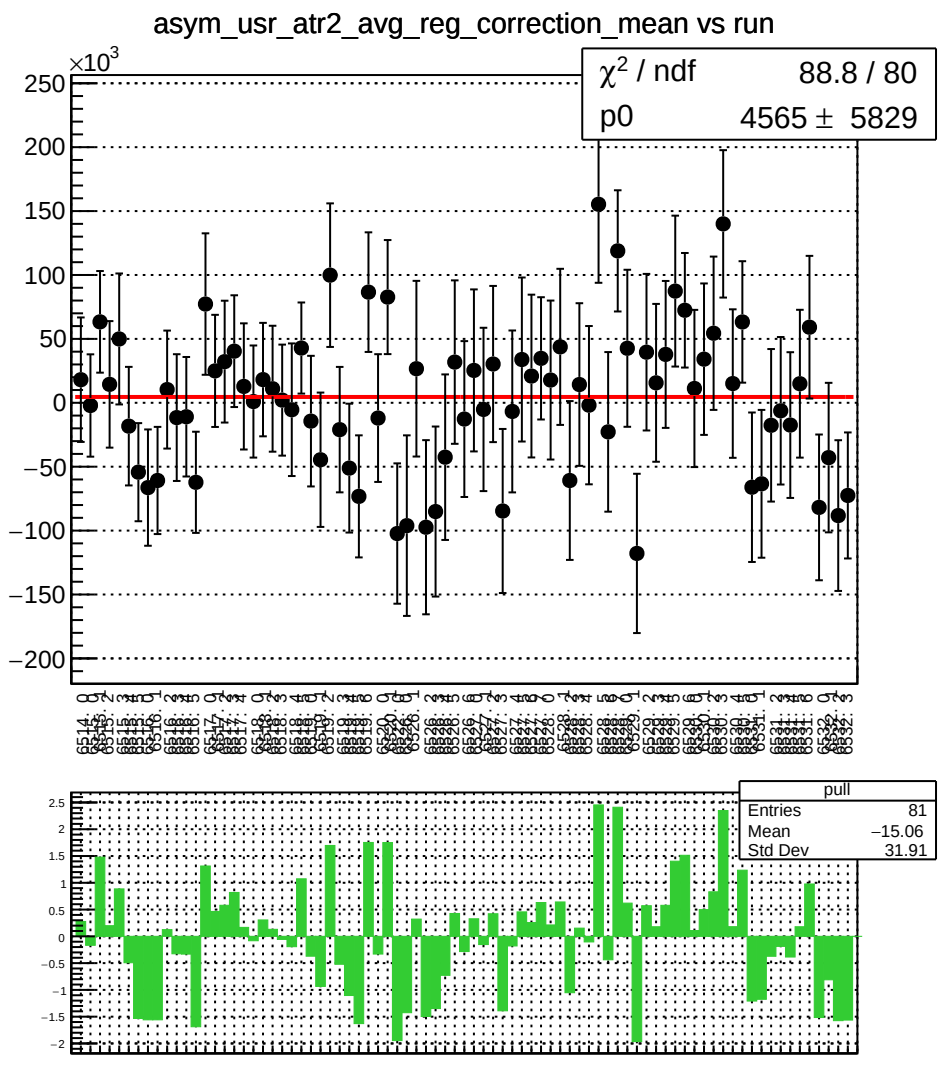

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.91 / 80
p0 5.101e−15 ± 1.122e−14
pull
Entries 81
Mean 266.7
Std Dev 0

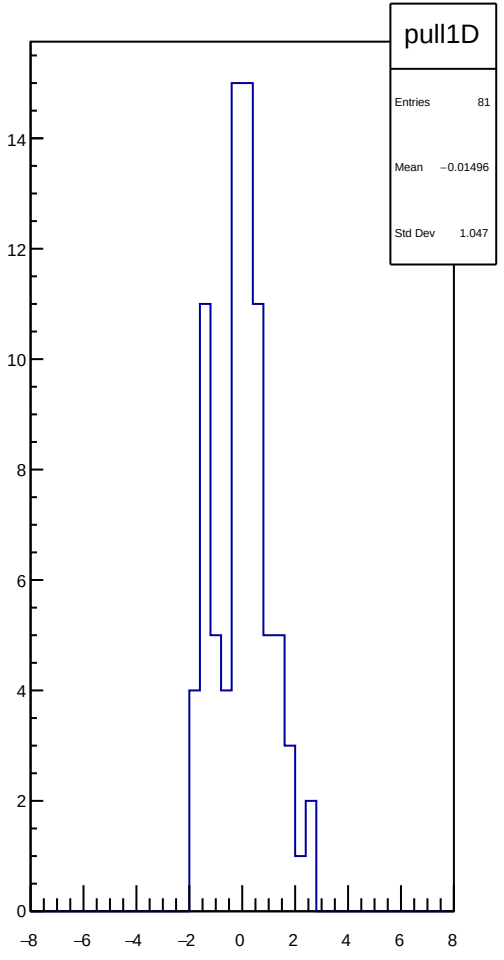

pull1D
Entries 81
Mean 0.02502
Std Dev 0.9991

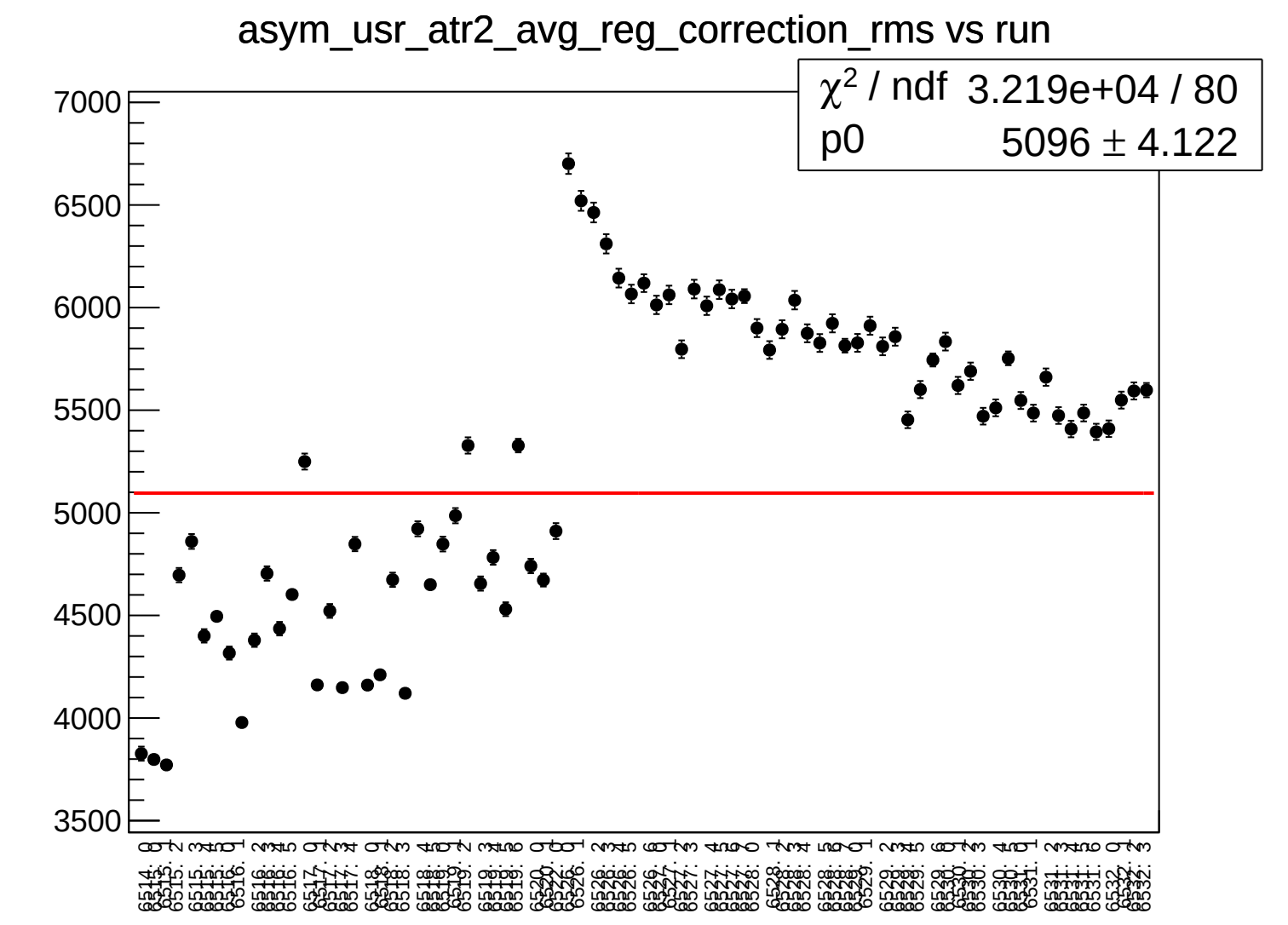

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.731e+05 / 80
p0 7.042e−12 ± 7.935e−15
80
70
60
50
40
30
20
10

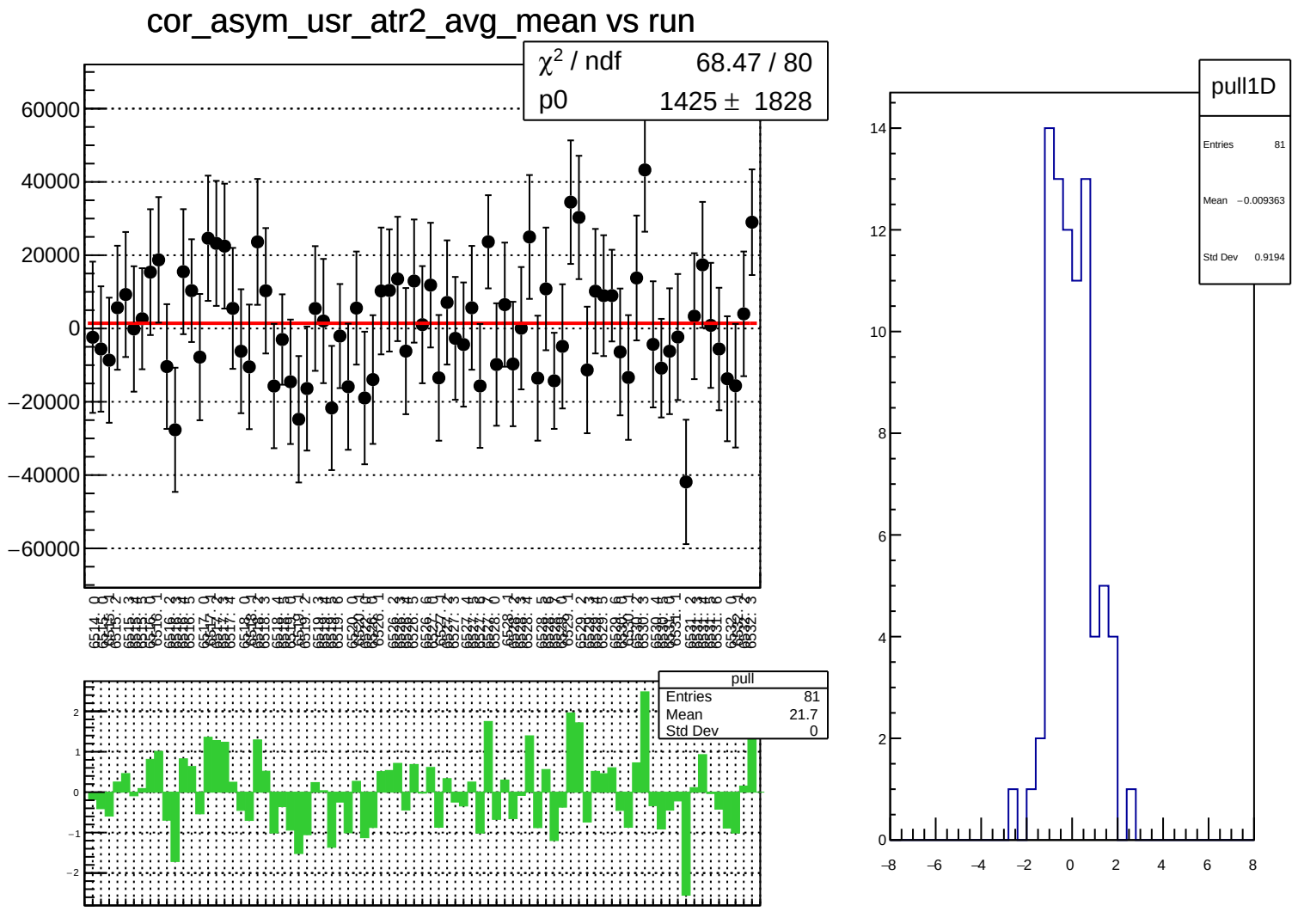

reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 68.47 / 80
p0 1425 ± 1828
pull
Entries 81
Mean 21.72
Std Dev 0
pull1D
Entries 81
Mean −0.009363
Std Dev 0.9194

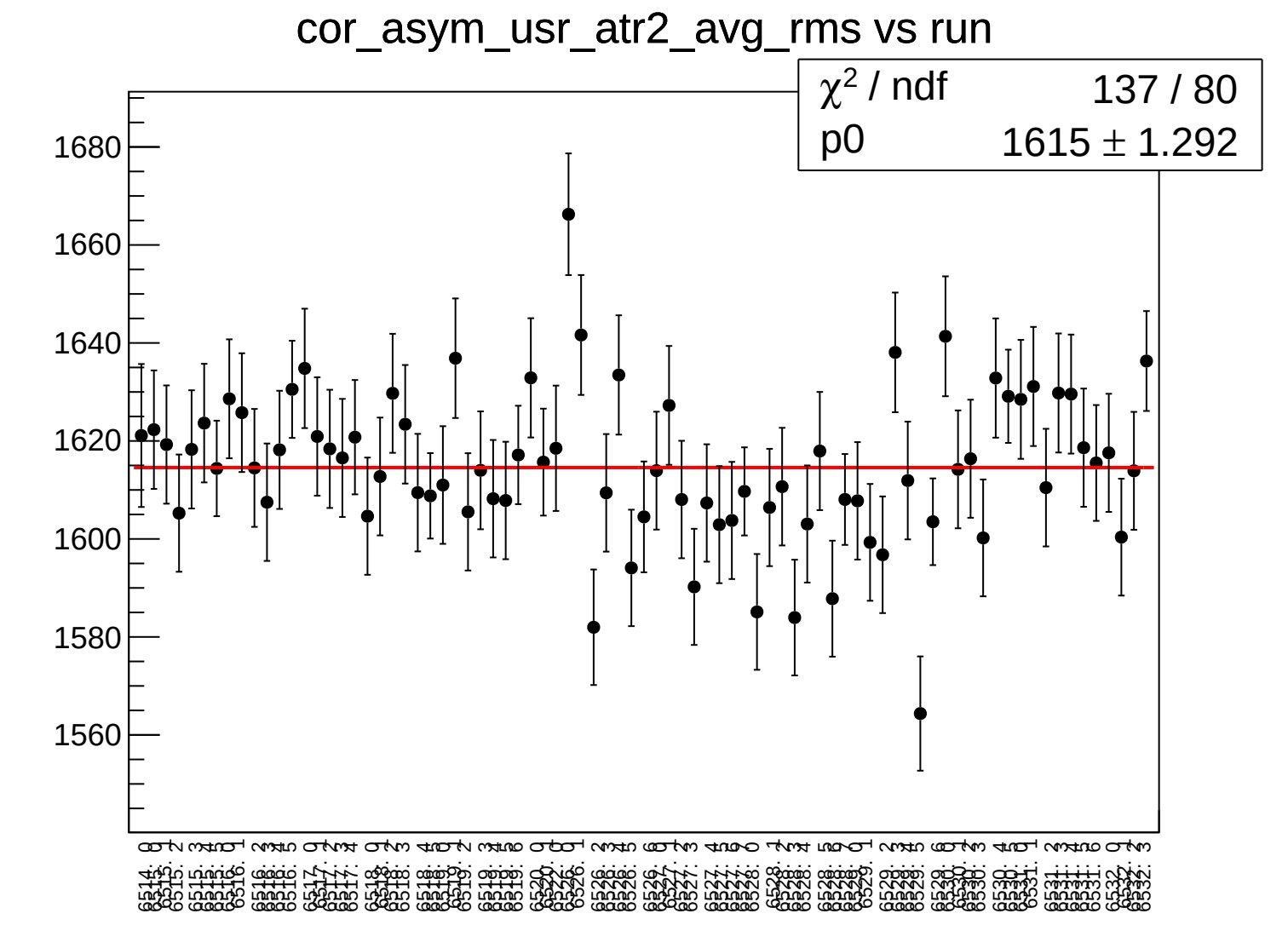

reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 137 / 80
p0 1615 ± 1.292
1680
1660
1640
1620
1600
1580
1560

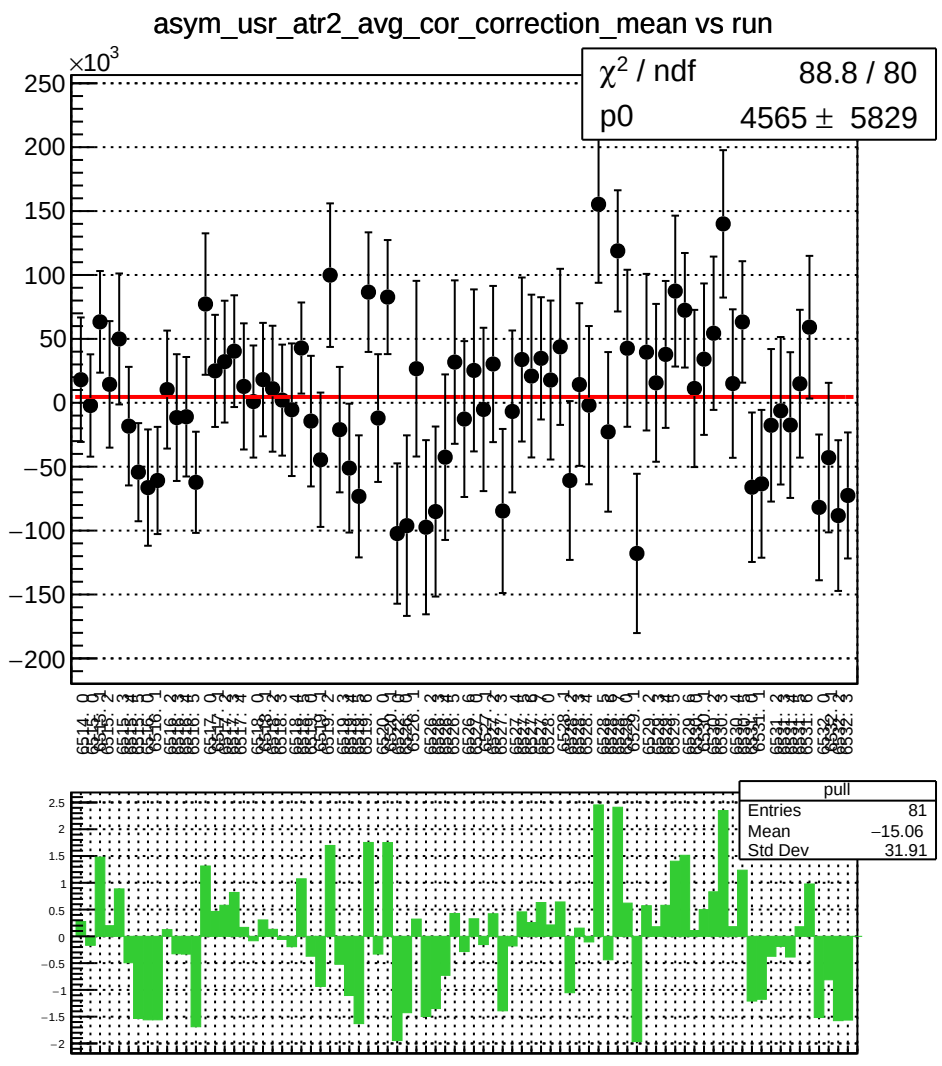

asym_usr_atr2_avg_reg_correction_mean vs run
χ² / ndf 88.8 / 80
p0 4565 ± 5829
pull
Entries 81
Mean −15.06
Std Dev 31.91

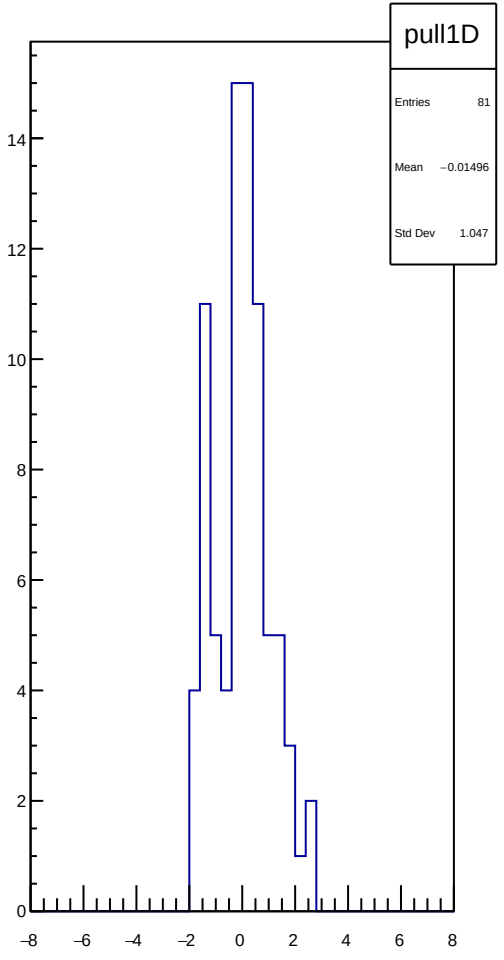

pull1D
Entries 81
Mean −0.01496
Std Dev 1.047

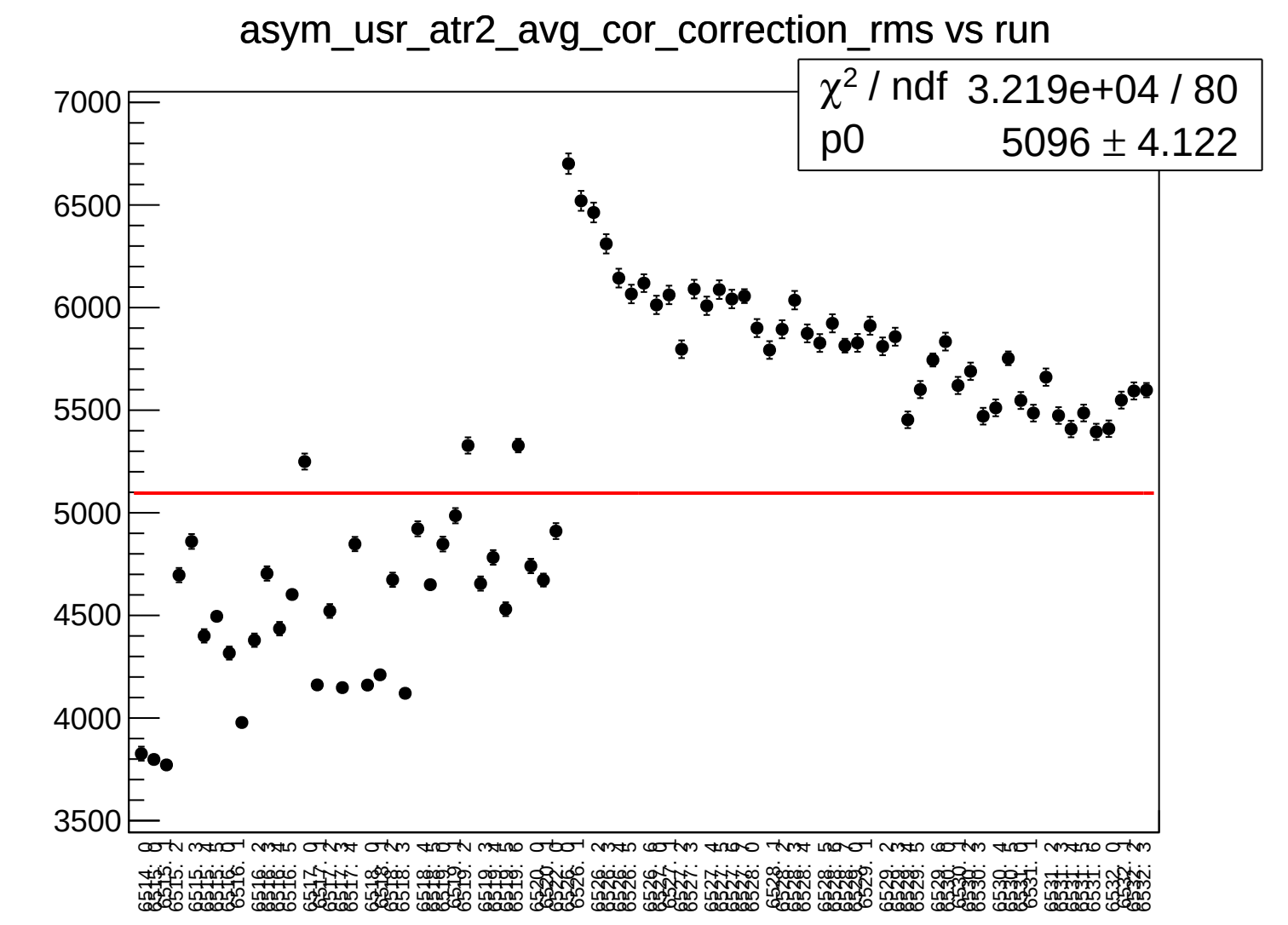

asym_usr_atr2_avg_reg_correction_rms vs run
χ² / ndf 3.219e+04 / 80
p0 5096 ± 4.122
7000
6500
6000
5500
5000
4500
4000
3500

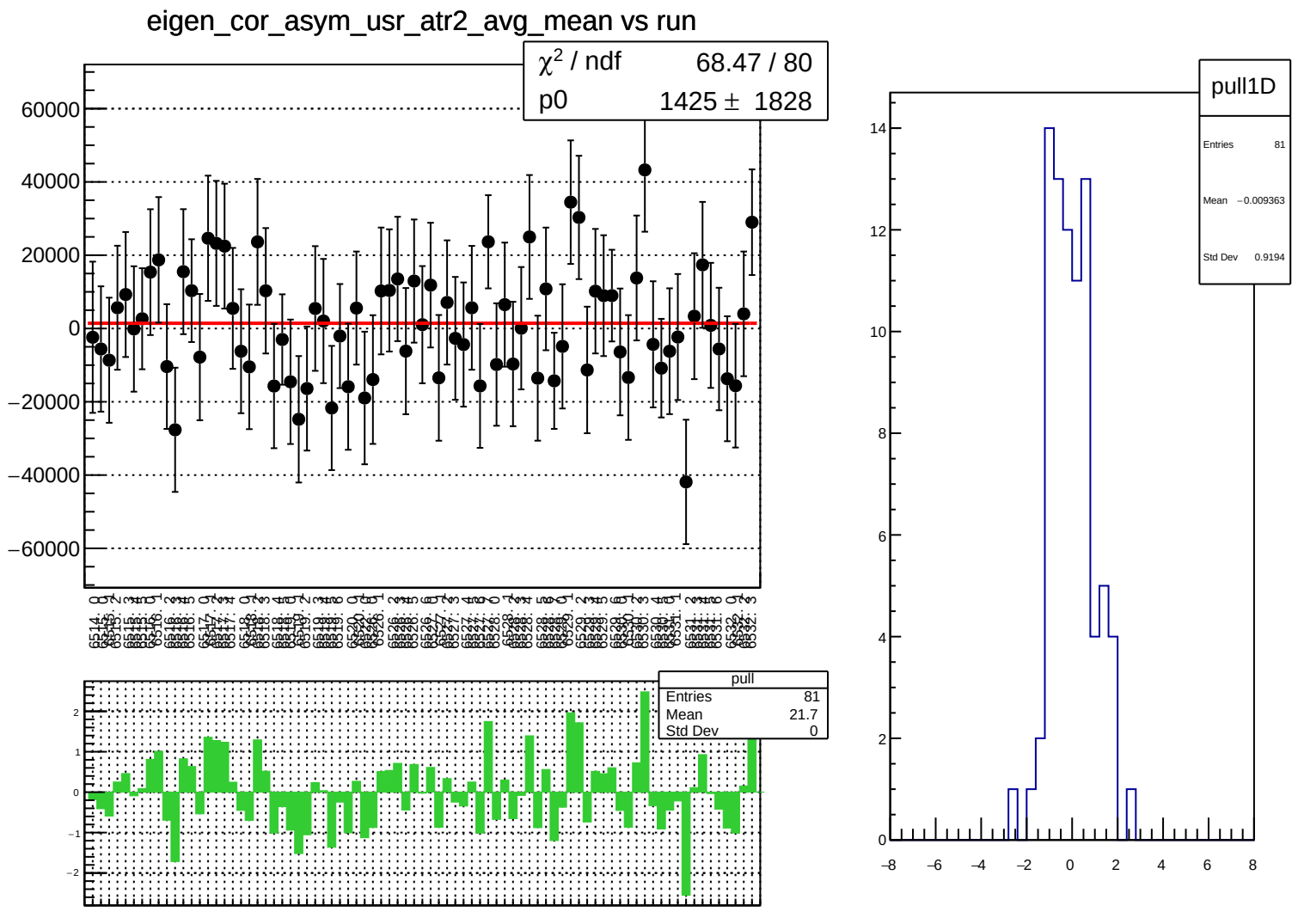

cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 68.47 / 80
p0 1425 ± 1828
pull
Entries 81
Mean 21.7
Std Dev 0
pull1D
Entries 81
Mean −0.009363
Std Dev 0.9194

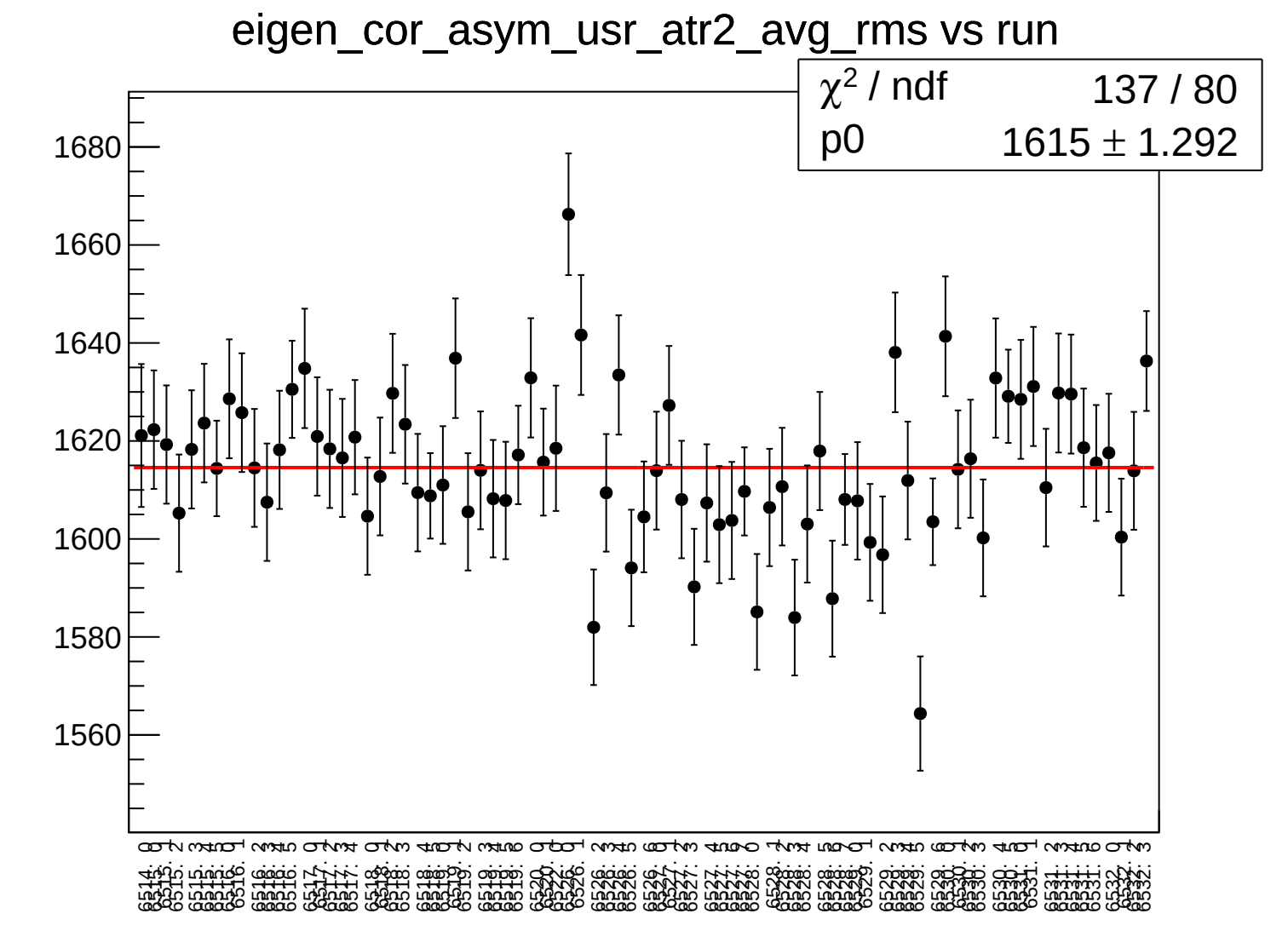

cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 137 / 80
p0 1615 ± 1.292
1680
1660
1640
1620
1600
1580
1560

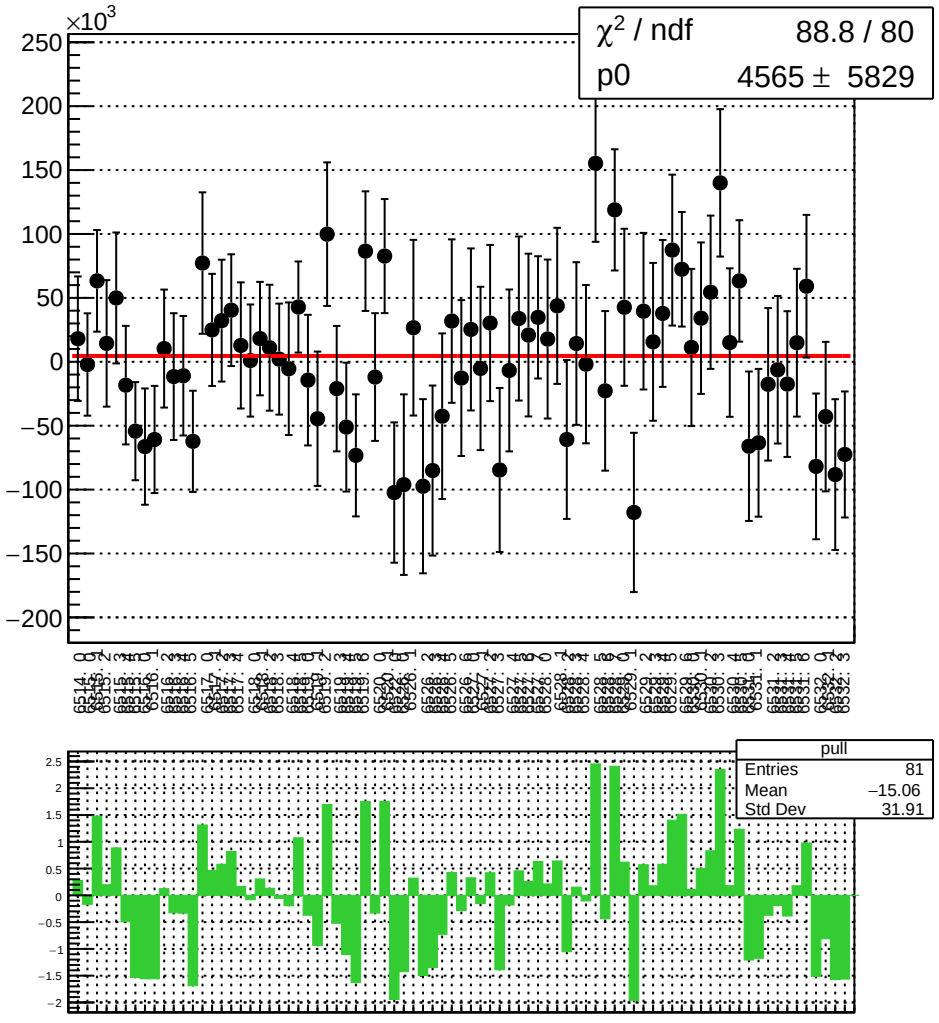

asym_usr_atr2_avg_cor_correction_mean vs run
χ² / ndf 88.8 / 80
p0 4565 ± 5829
pull
Entries 81
Mean −15.06
Std Dev 31.91

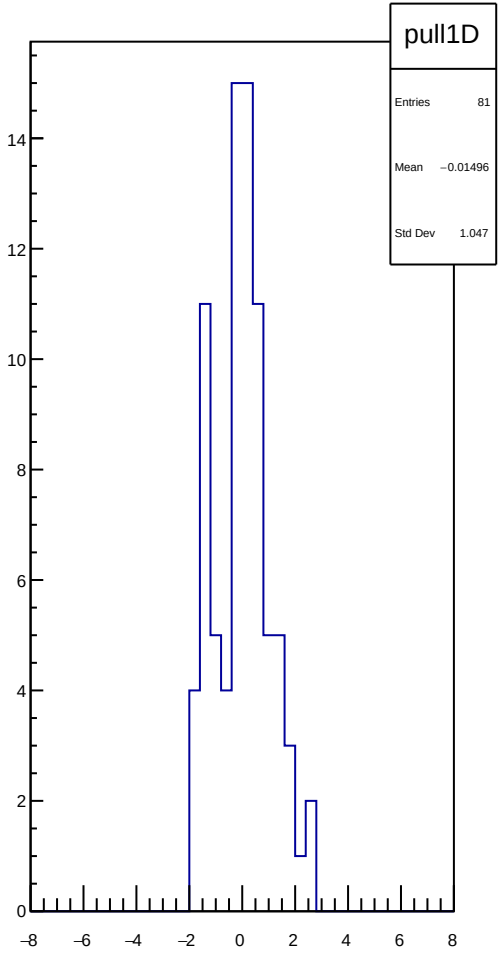

pull1D
Entries 81
Mean −0.01496
Std Dev 1.047

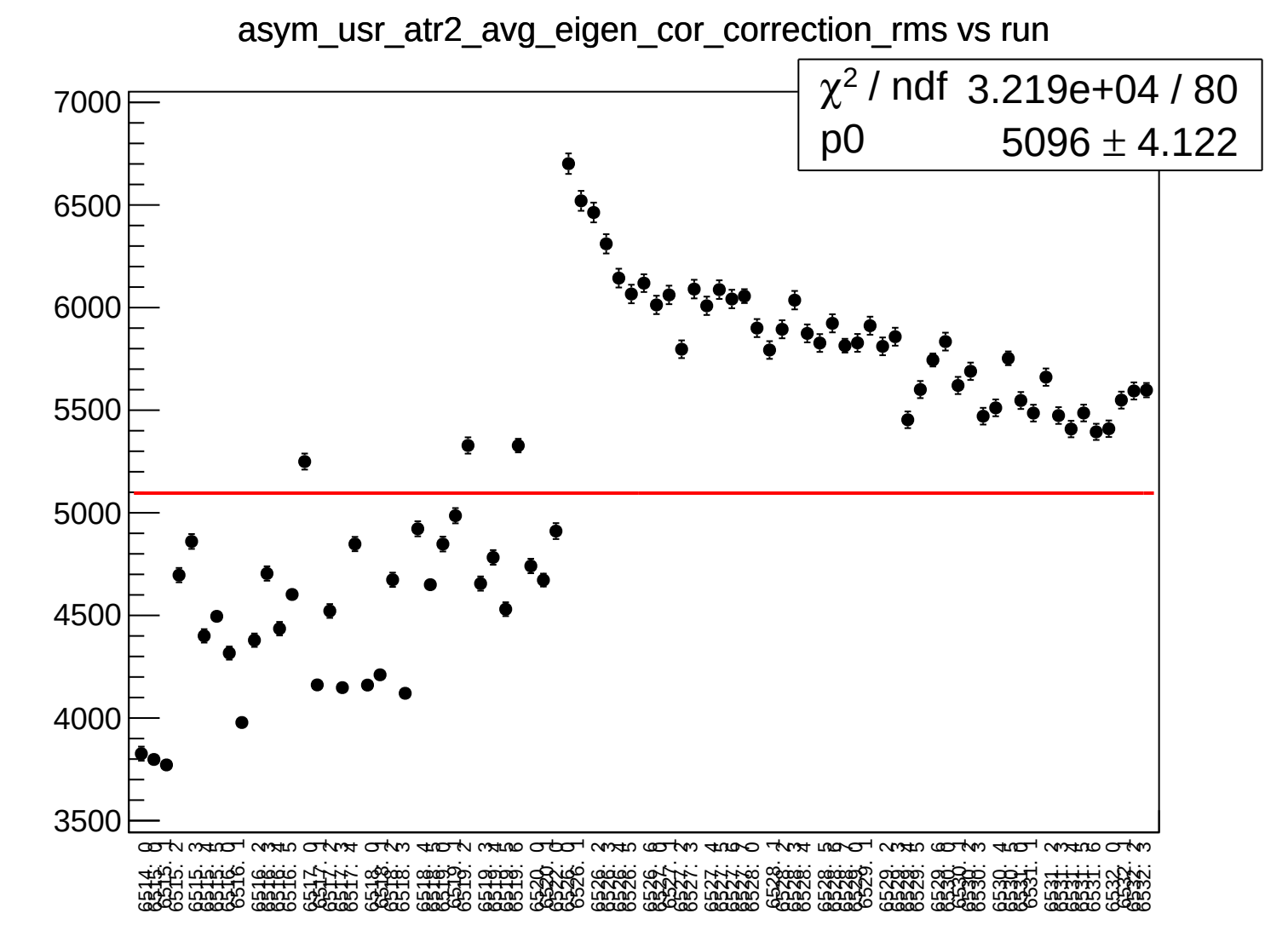

asym_usr_atr2_avg_cor_correction_rms vs run
χ² / ndf 3.219e+04 / 80
p0 5096 ± 4.122
7000
6500
6000
5500
5000
4500
4000
3500

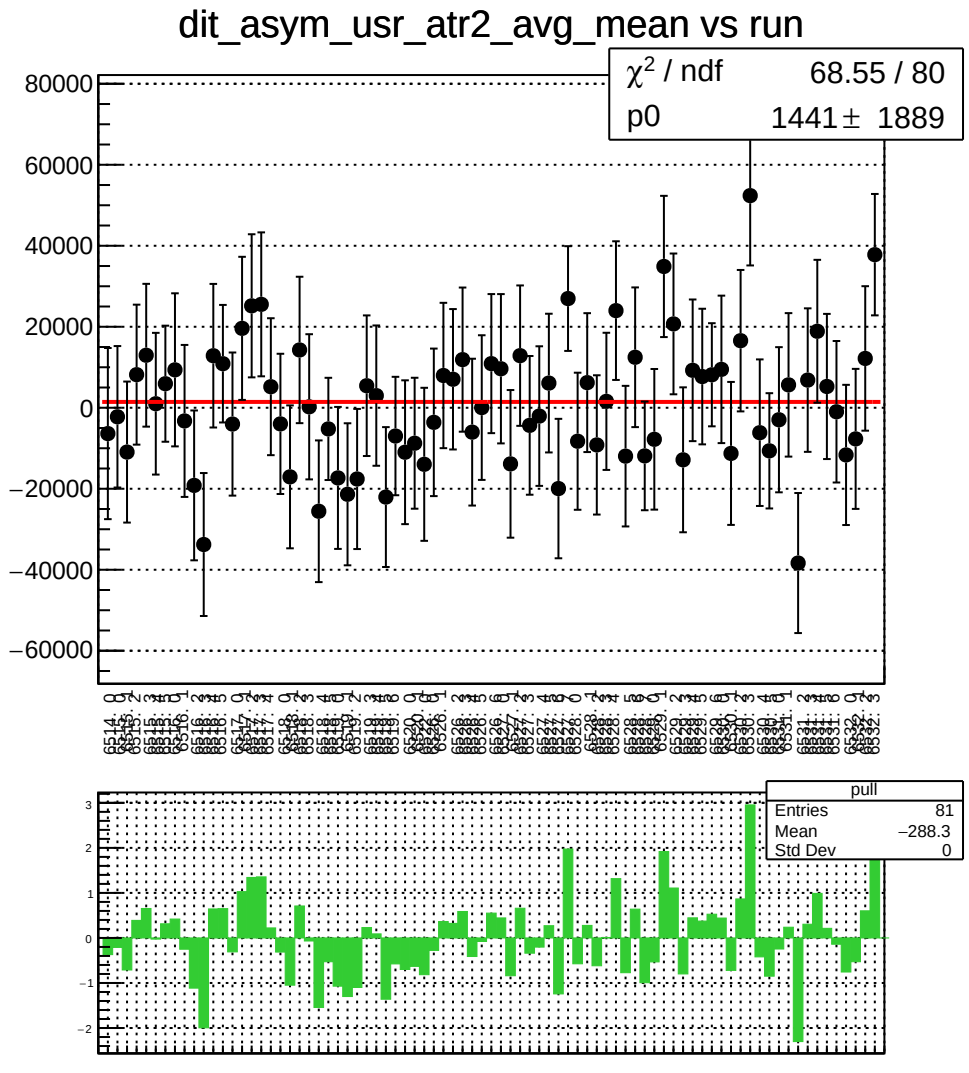

eigen_cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 68.47 / 80
p0 1425 ± 1828
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean 21.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 81
Mean −0.009363
Std Dev 0.9194
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

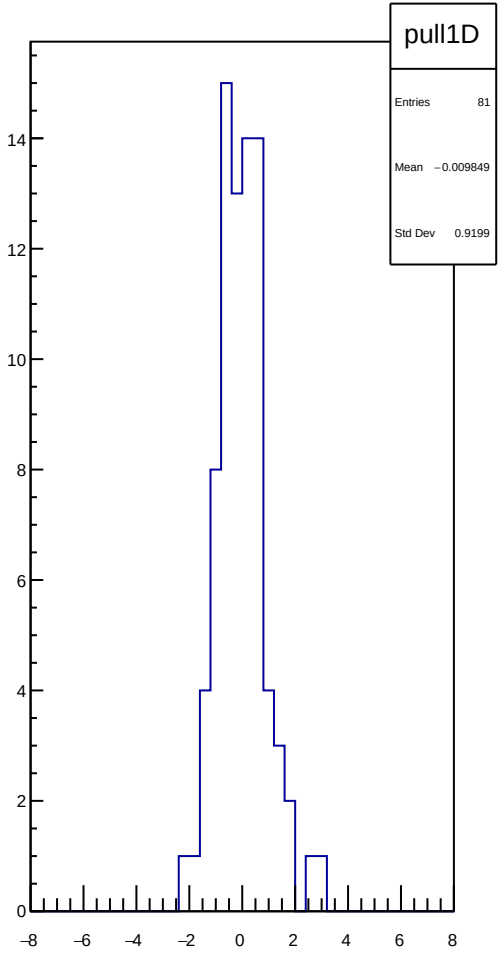

eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 137 / 80
p0 1615 ± 1.292
1680
1660
1640
1620
1600
1580
1560

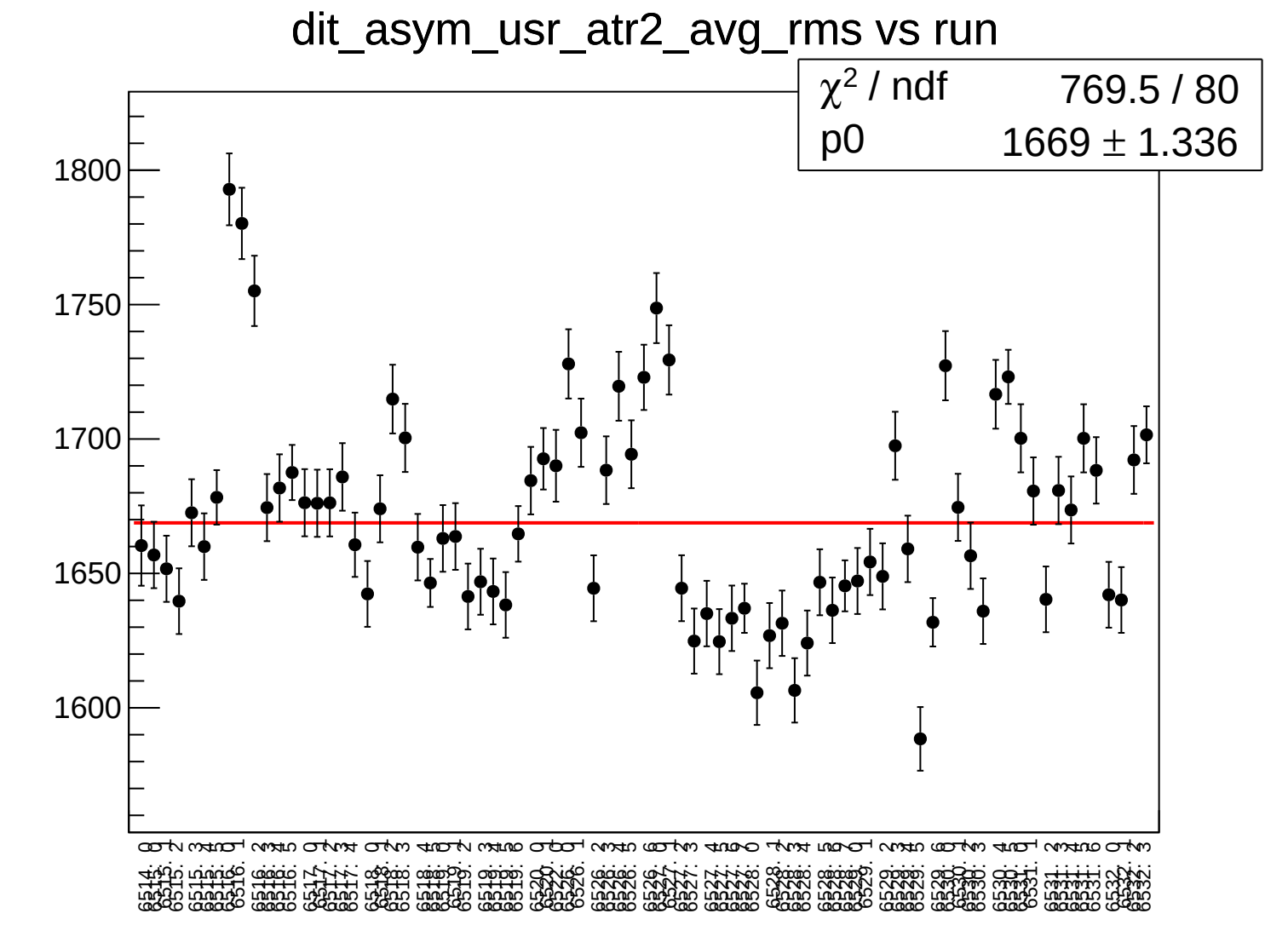

asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 88.8 / 80
p0 4565 ± 5829
pull
Entries 81
Mean −15.06
Std Dev 31.91

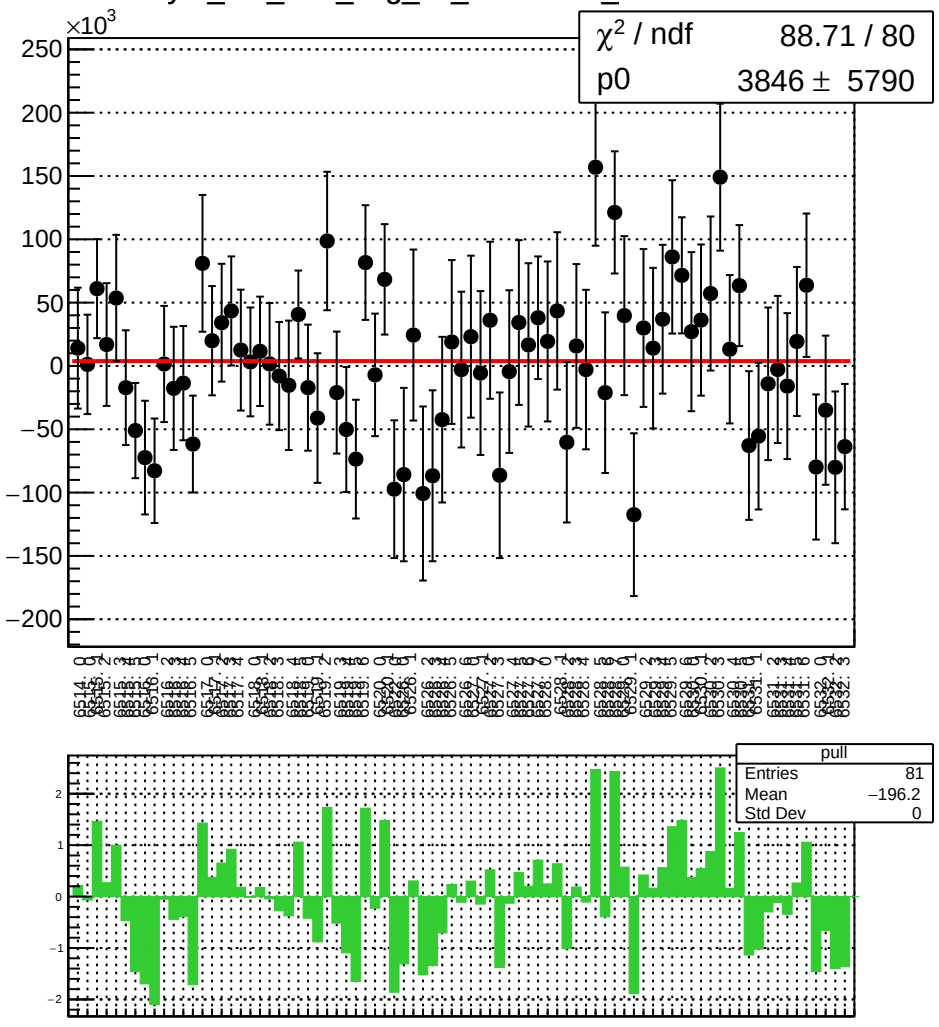

pull1D
Entries 81
Mean −0.01496
Std Dev 1.047

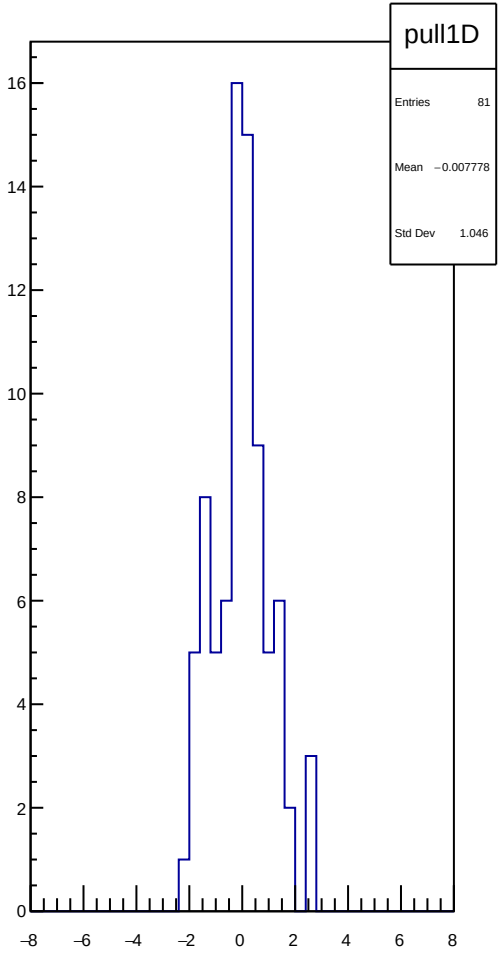

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.219e+04 / 80
p0 5096 ± 4.122
7000
6500
6000
5500
5000
4500
4000
3500

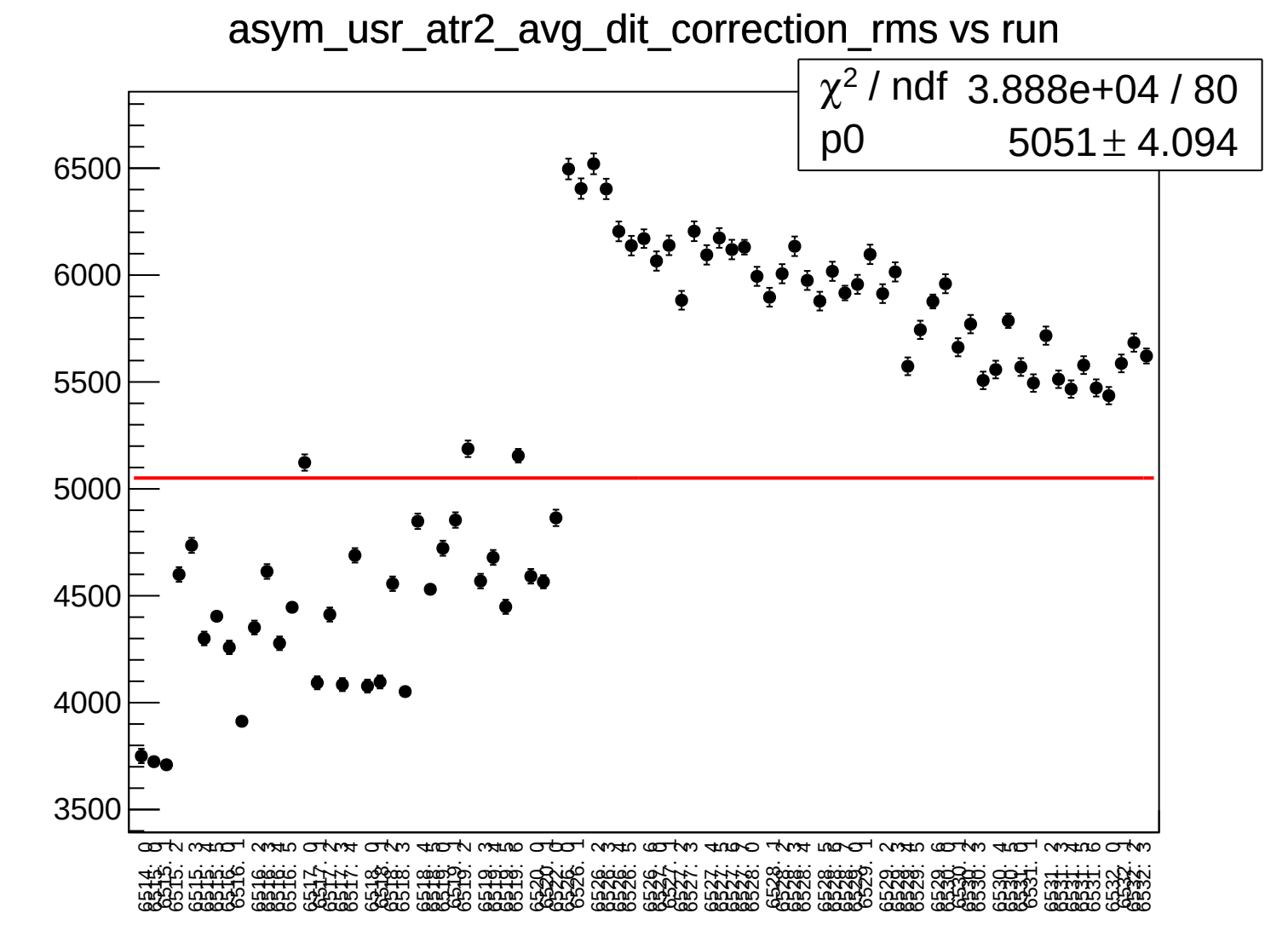

dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 68.55 / 80
p0 1441 ± 1889
pull
Entries 81
Mean −288.3
Std Dev 0

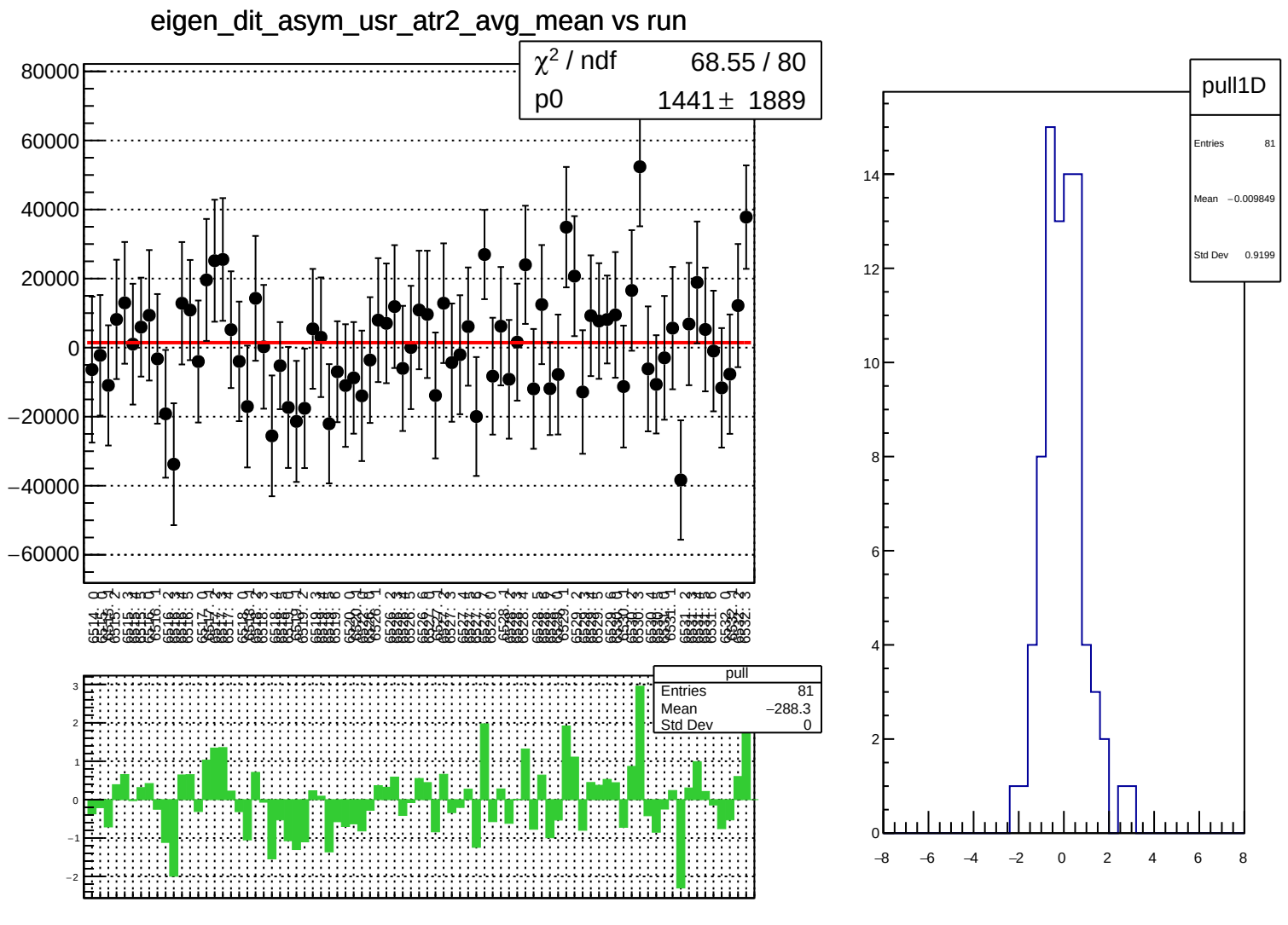

pull1D
Entries 81
Mean −0.009849
Std Dev 0.9199

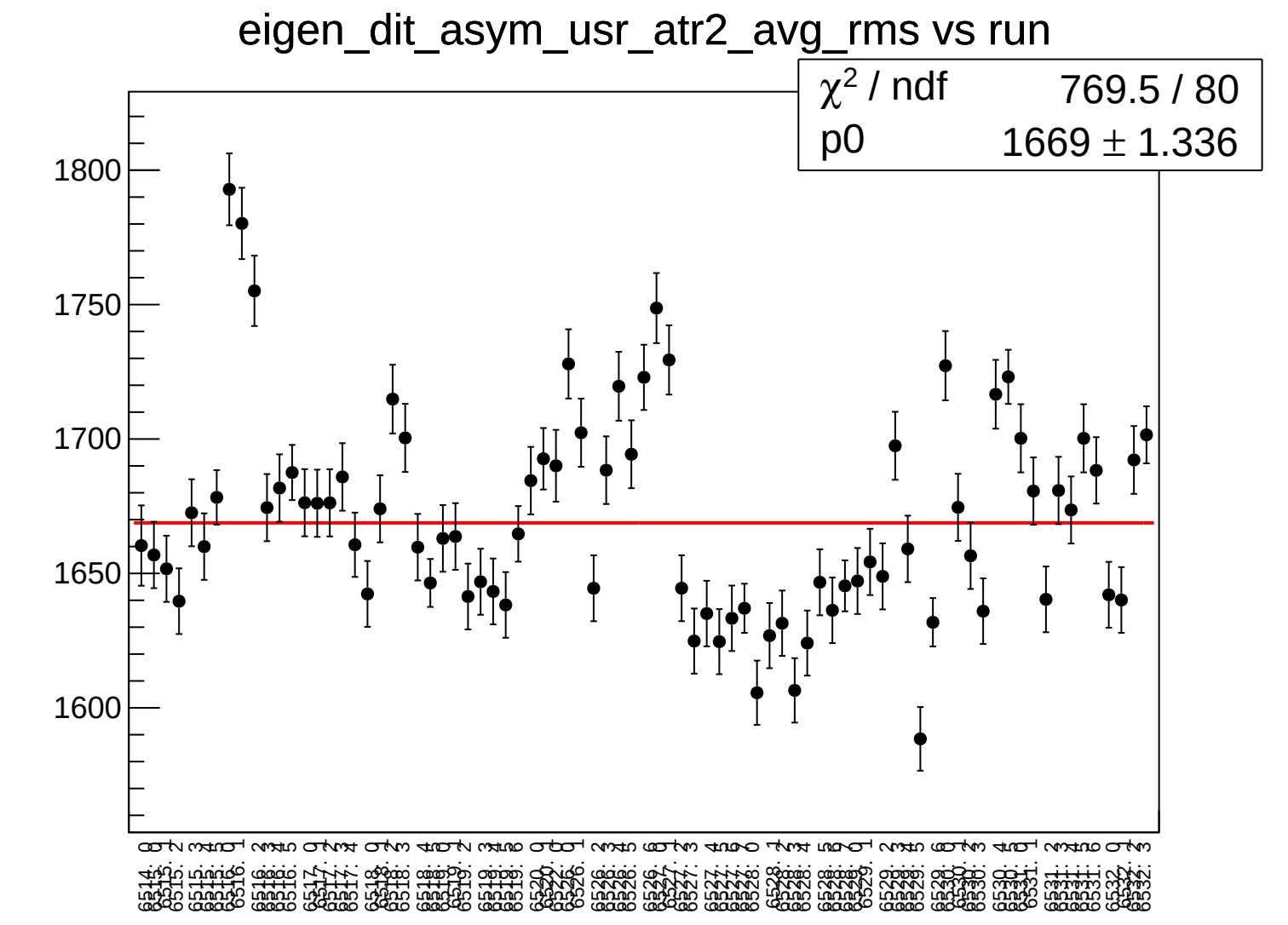

dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 769.5 / 80
p0 1669 ± 1.336
1800
1750
1700
1650
1600

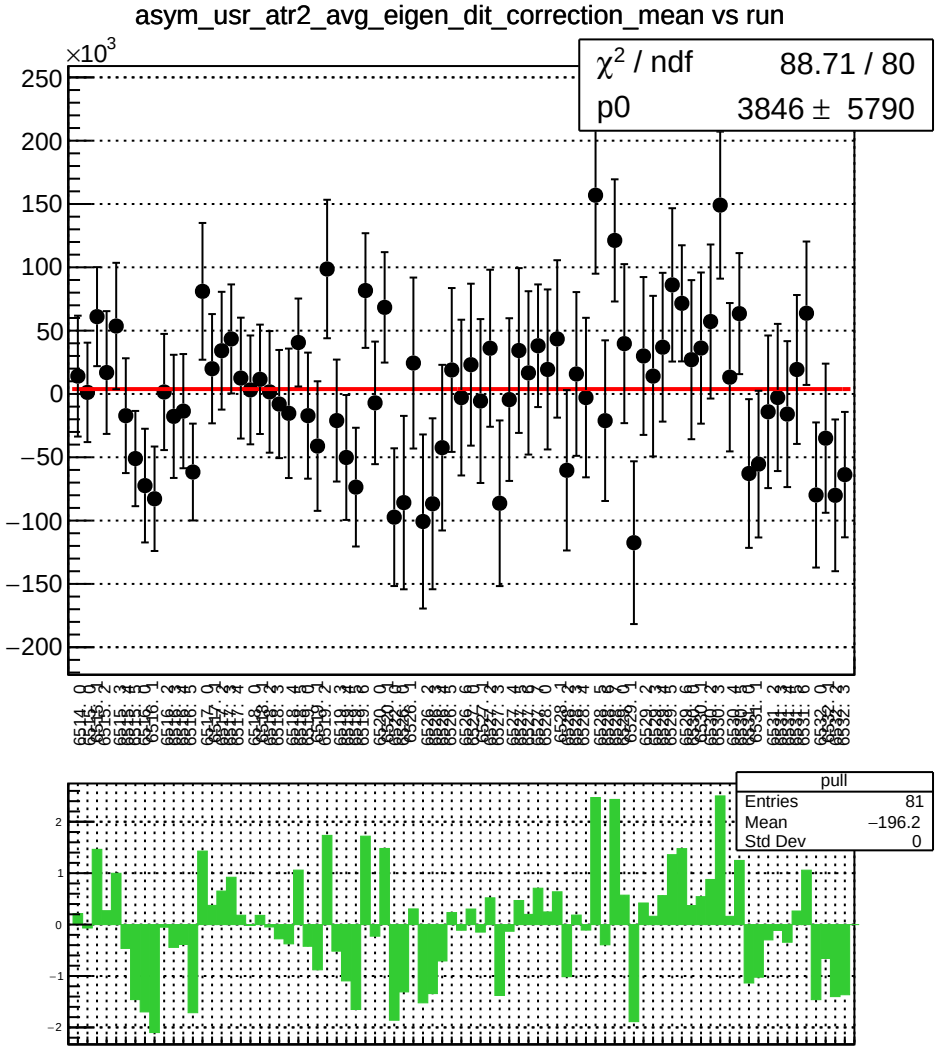

asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 88.71 / 80
p0 3846 ± 5790
pull
Entries 81
Mean −196.2
Std Dev 0

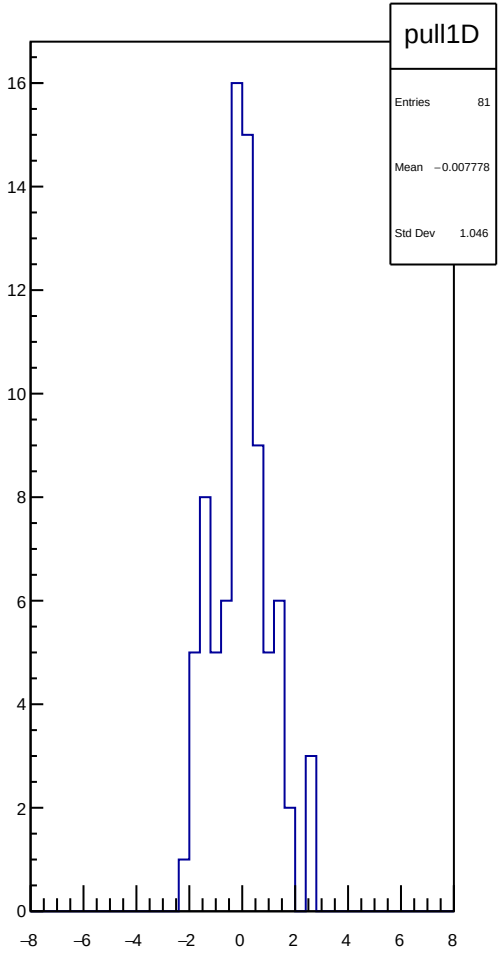

pull1D
Entries 81
Mean −0.007778
Std Dev 1.046

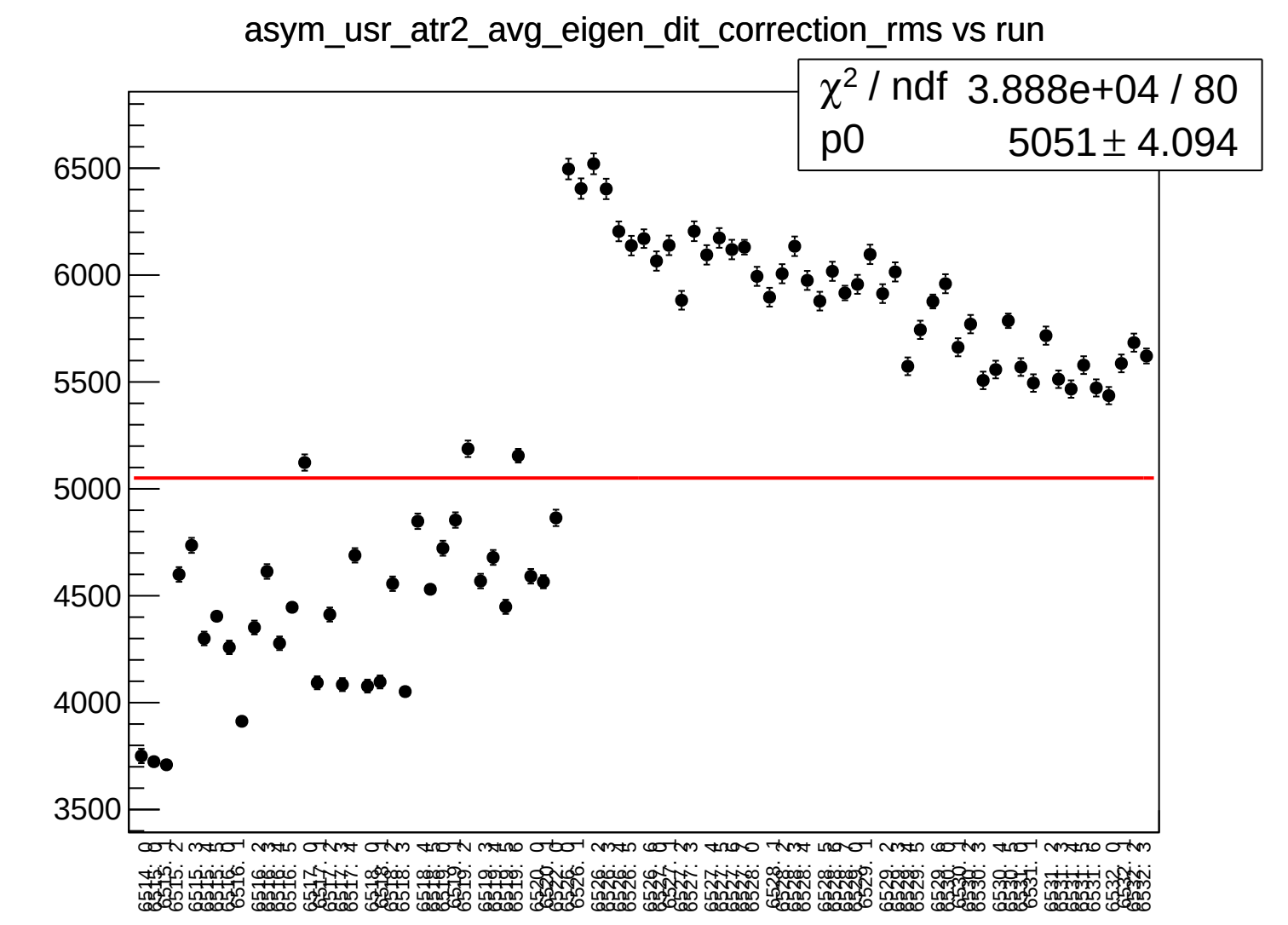

asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 3.888e+04 / 80
p0 5051 ± 4.094
6500
6000
5500
5000
4500
4000
3500

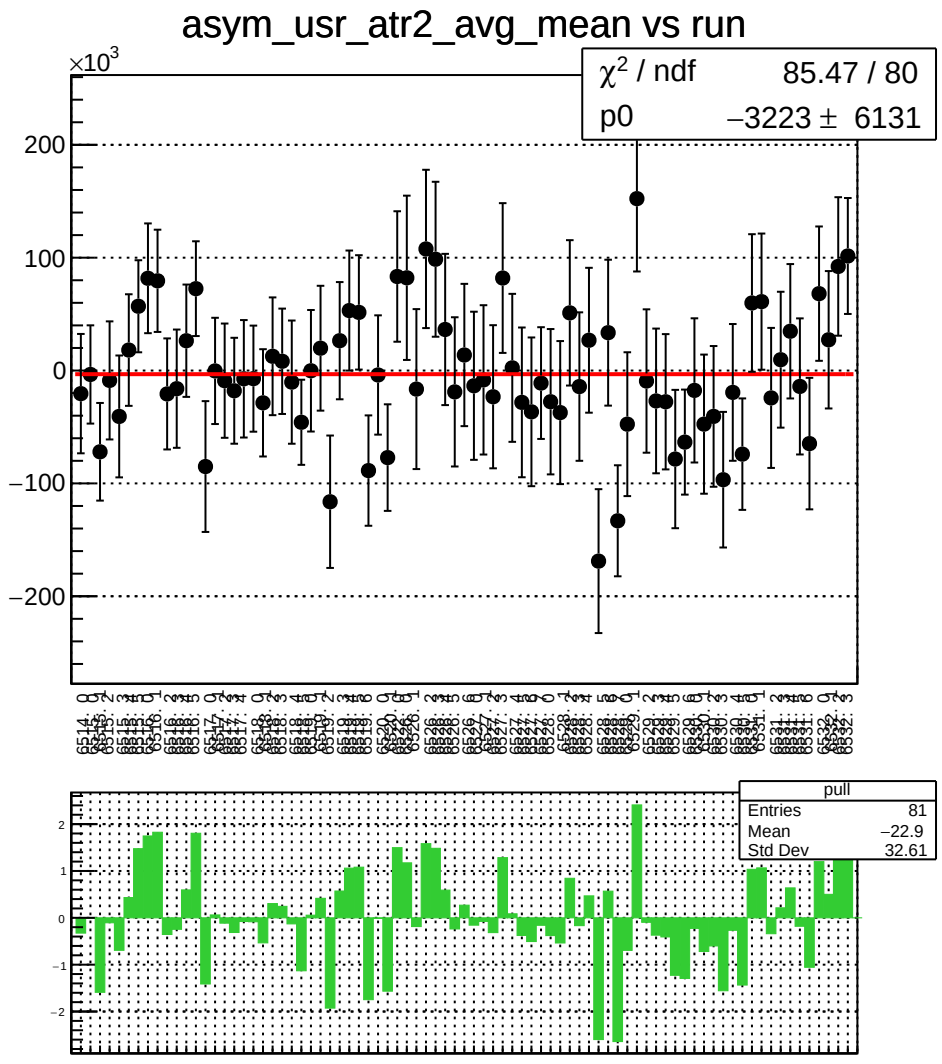

eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 68.55 / 80
p0 1441 ± 1889
pull
Entries 81
Mean −288.3
Std Dev 0
pull1D
Entries 81
Mean −0.009849
Std Dev 0.9199

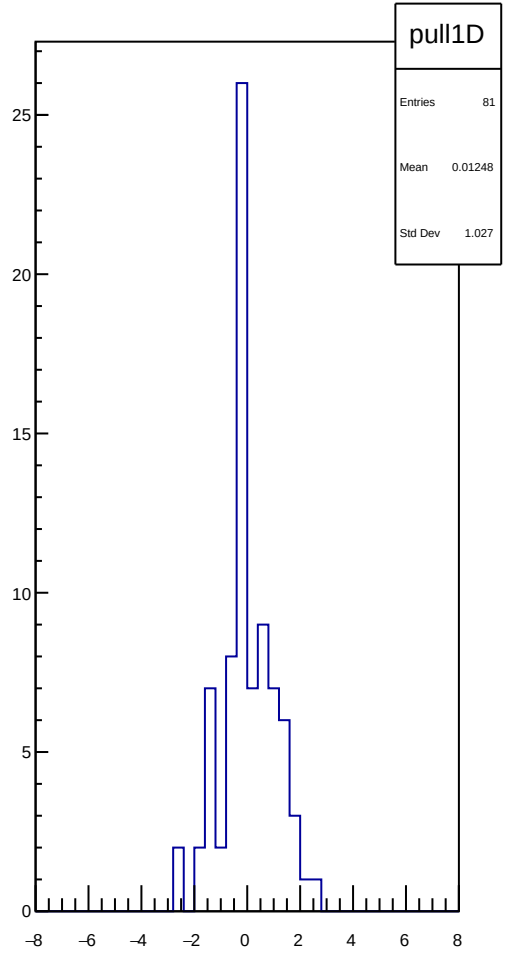

eigen_dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 769.5 / 80
p0 1669 ± 1.336
1800
1750
1700
1650
1600

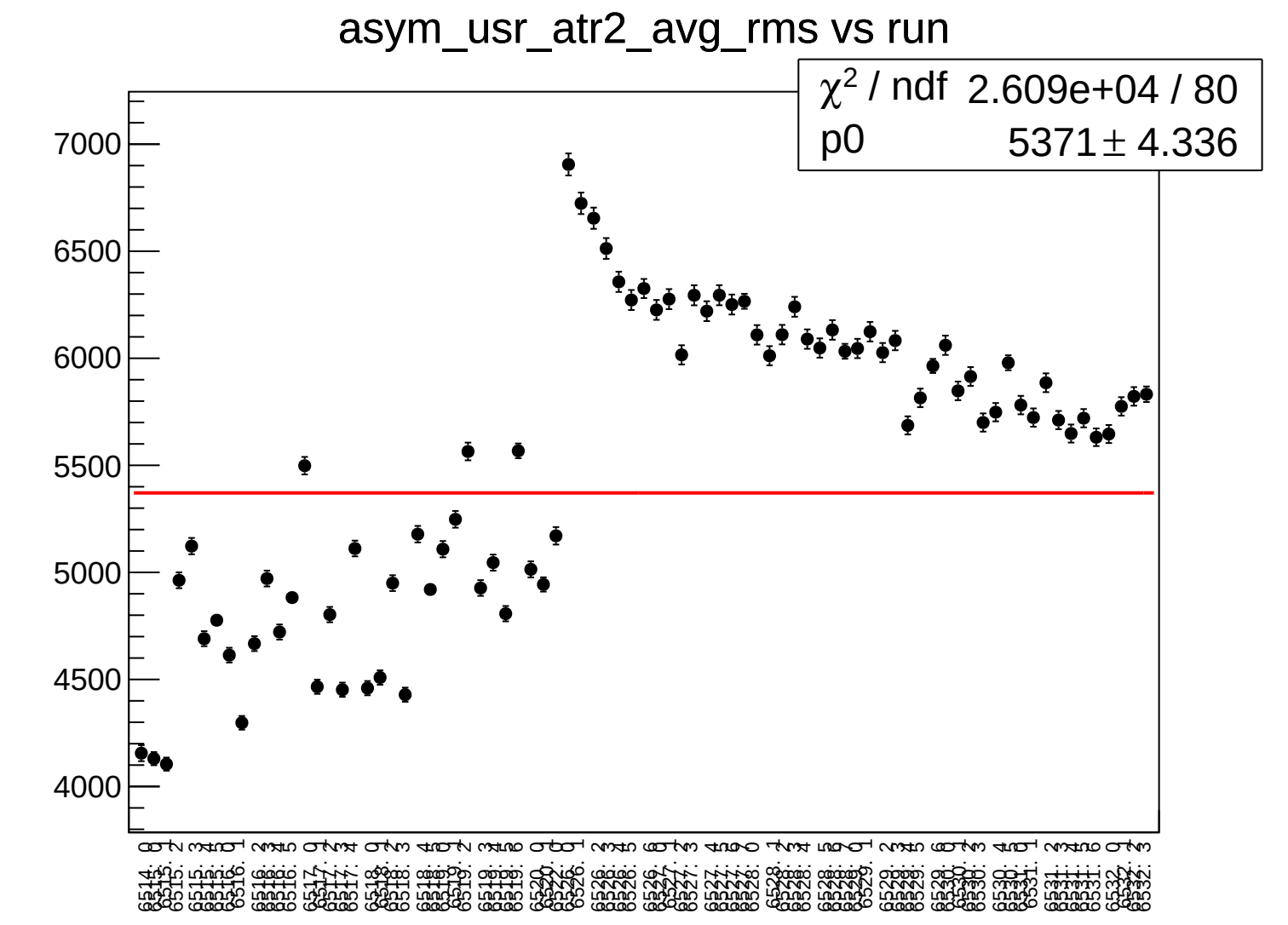

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 88.71 / 80
p0 3846 ± 5790
pull
Entries 81
Mean −196.2
Std Dev 0

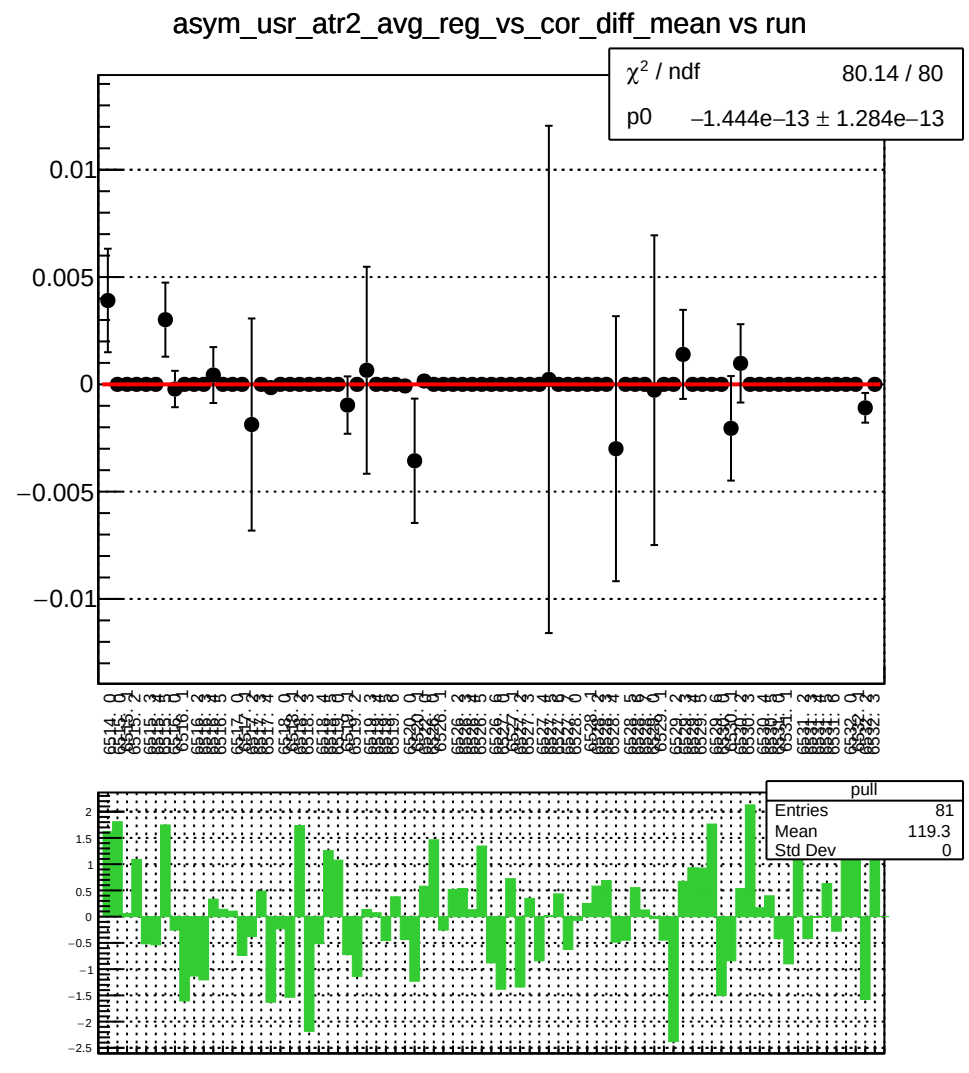

pull1D
Entries 81
Mean −0.007778
Std Dev 1.046

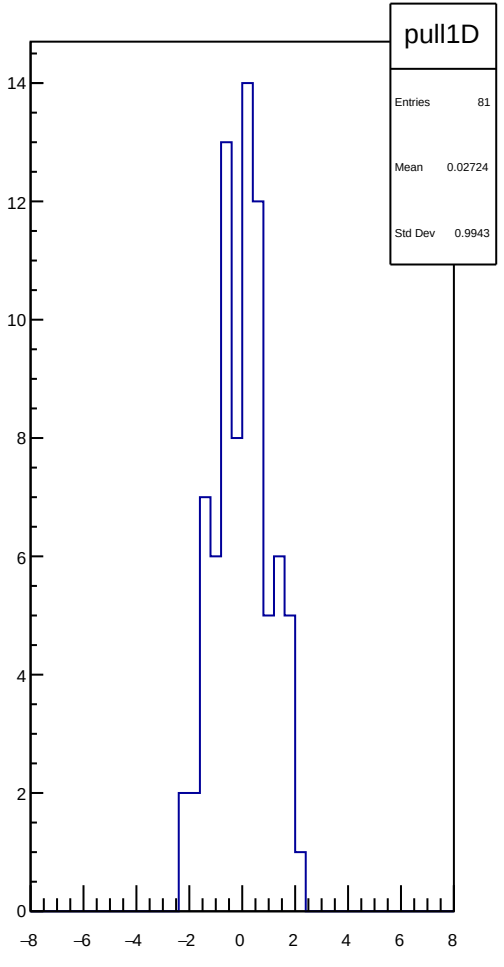

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.888e+04 / 80
p0 5051 ± 4.094
6500
6000
5500
5000
4500
4000
3500

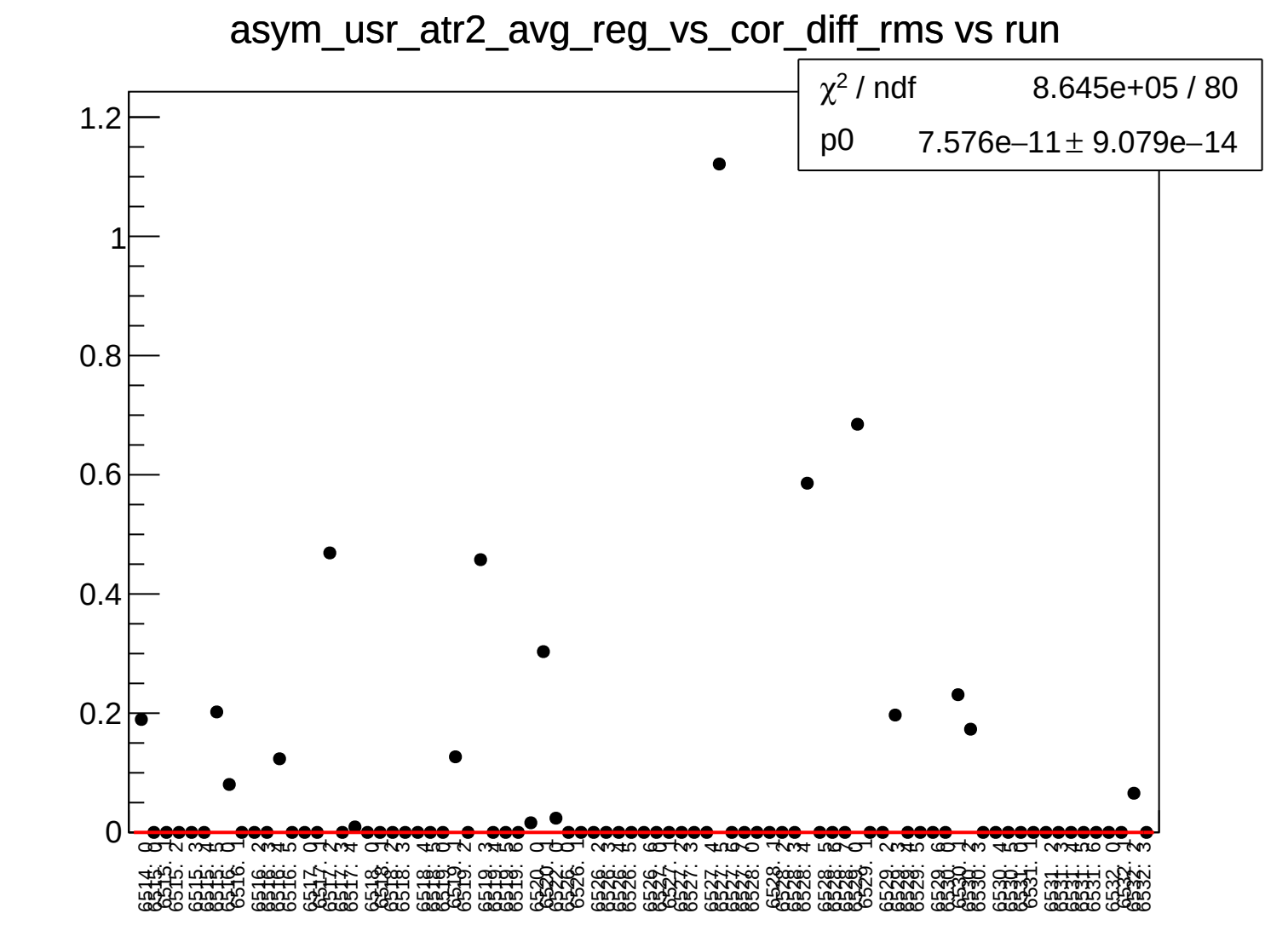

asym_usr_atr2_avg_mean vs run
×10^3
χ^2 / ndf 85.47 / 80
p0 −3223 ± 6131
200
100
0
−100
−200
pull
Entries 81
Mean −22.9
Std Dev 32.61
2
1
0
−1
−2

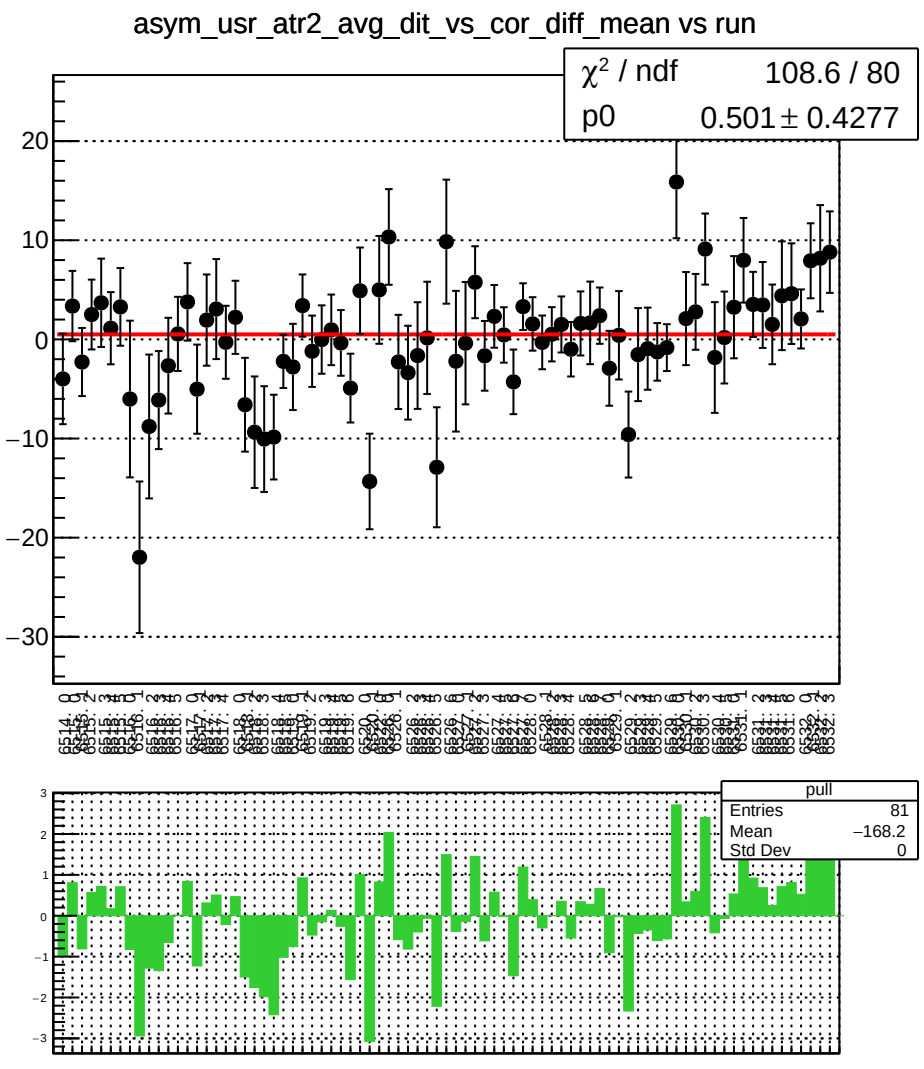

pull1D
Entries 81
Mean 0.01248
Std Dev 1.027
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

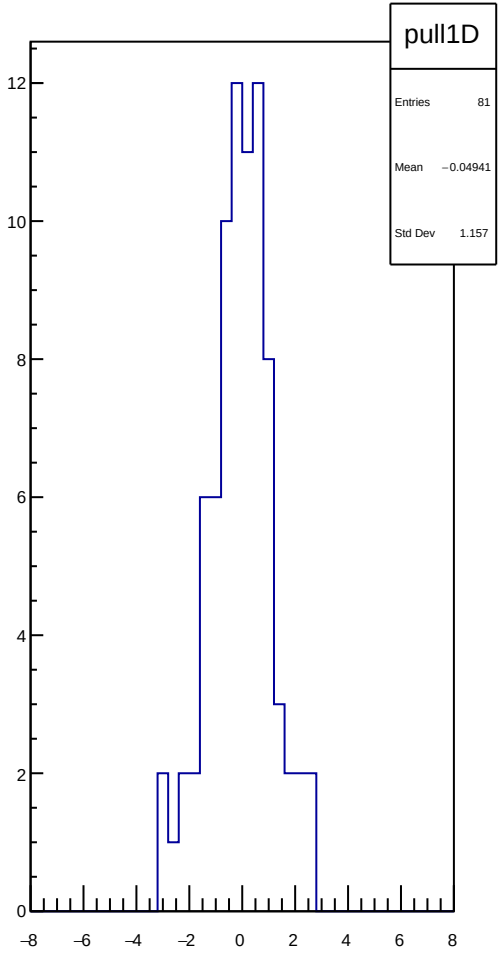

asym_usr_atr2_avg_rms vs run
χ² / ndf 2.609e+04 / 80
p0 5371 ± 4.336
7000
6500
6000
5500
5000
4500
4000

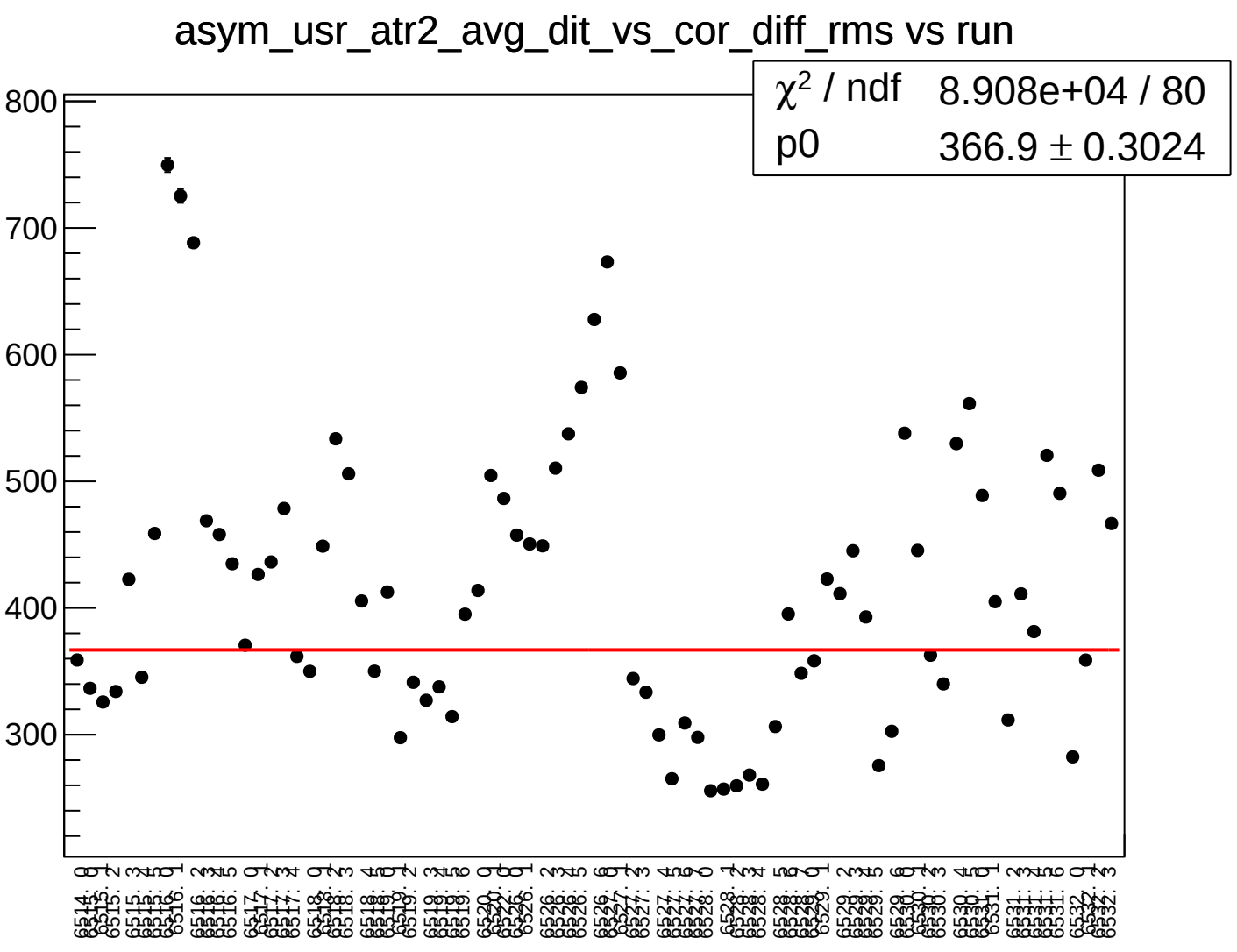

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 80.14 / 80
p0 −1.444e−13 ± 1.284e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 81
Mean 119.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

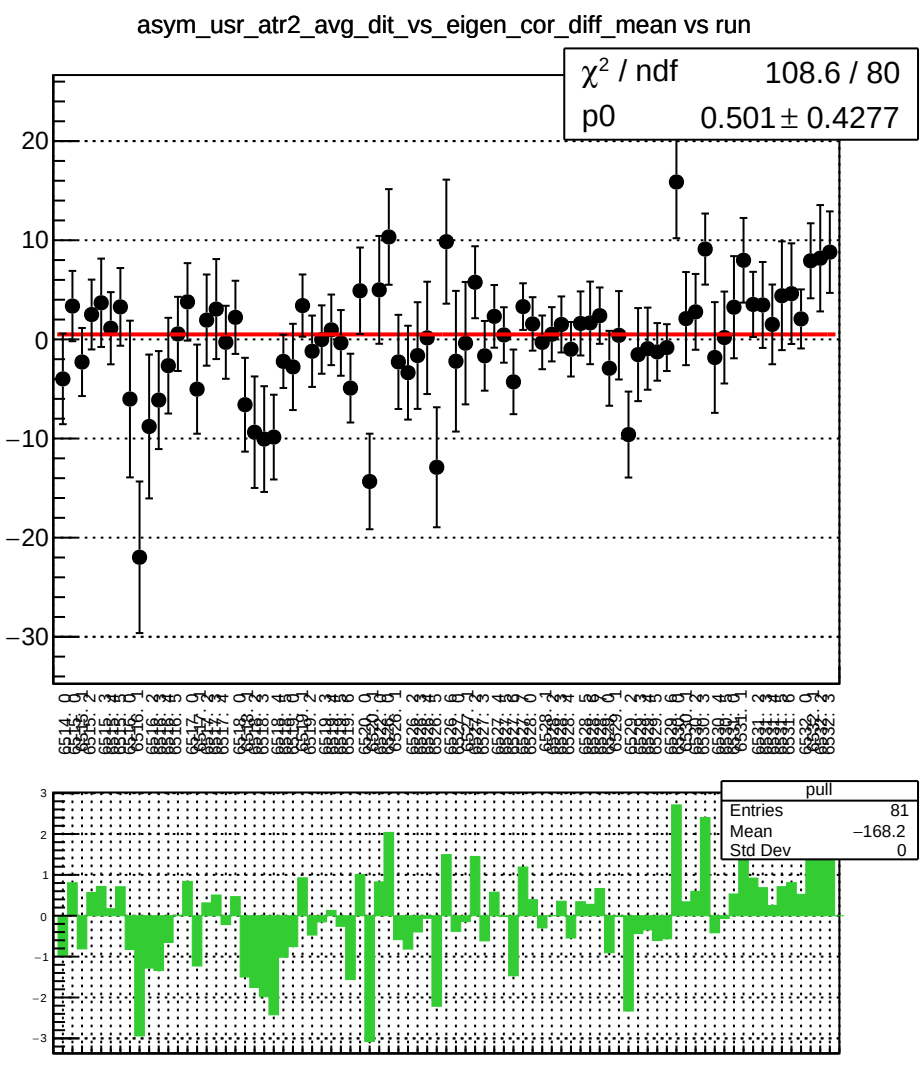

pull1D
Entries 81
Mean 0.02724
Std Dev 0.9943
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

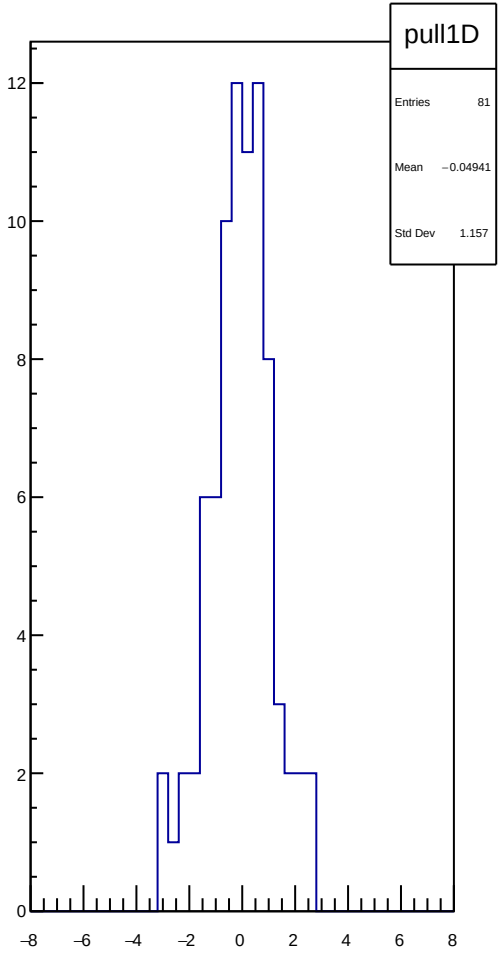

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.645e+05 / 80
p0 7.576e−11 ± 9.079e−14
1.2
1
0.8
0.6
0.4
0.2
0

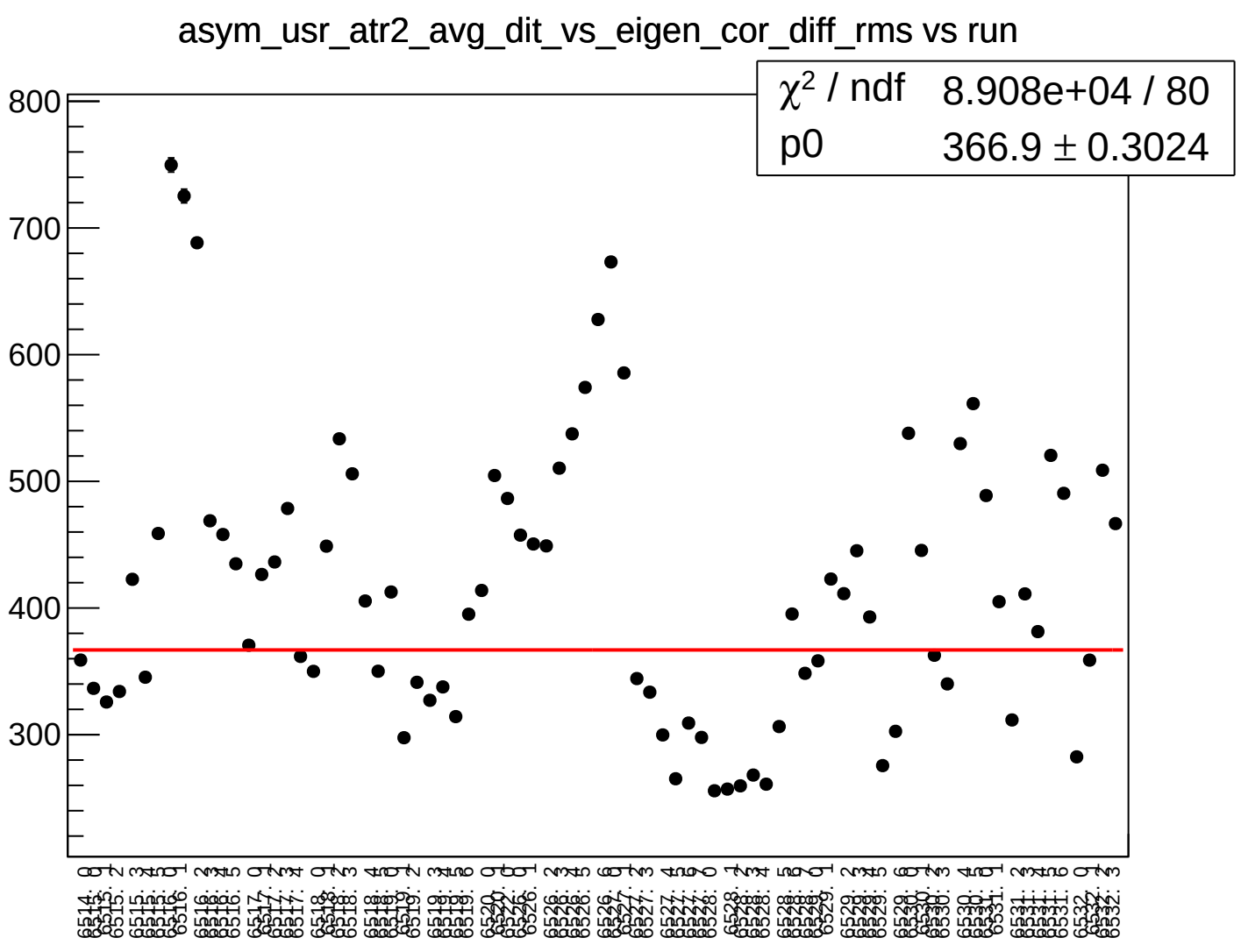

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 108.6 / 80
p0 0.501 ± 0.4277
pull
Entries 81
Mean −168.2
Std Dev 0

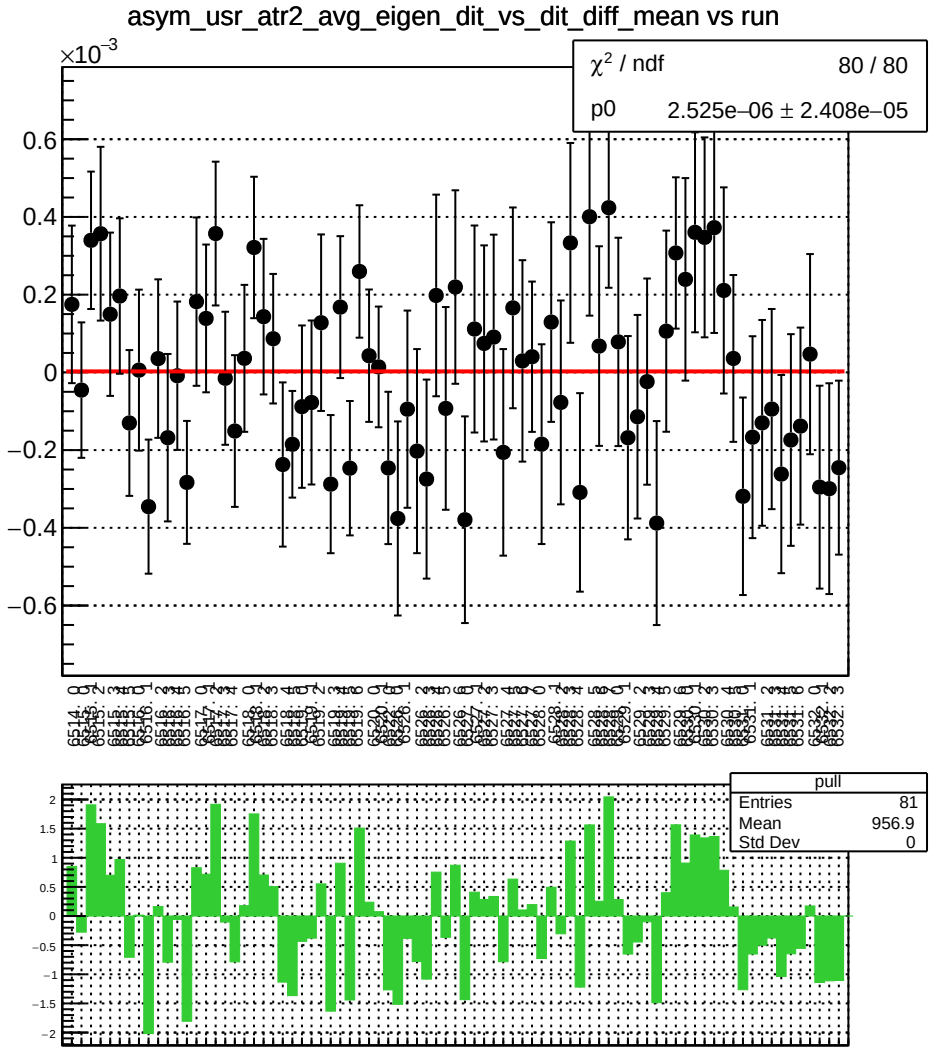

pull1D
Entries 81
Mean −0.04941
Std Dev 1.157

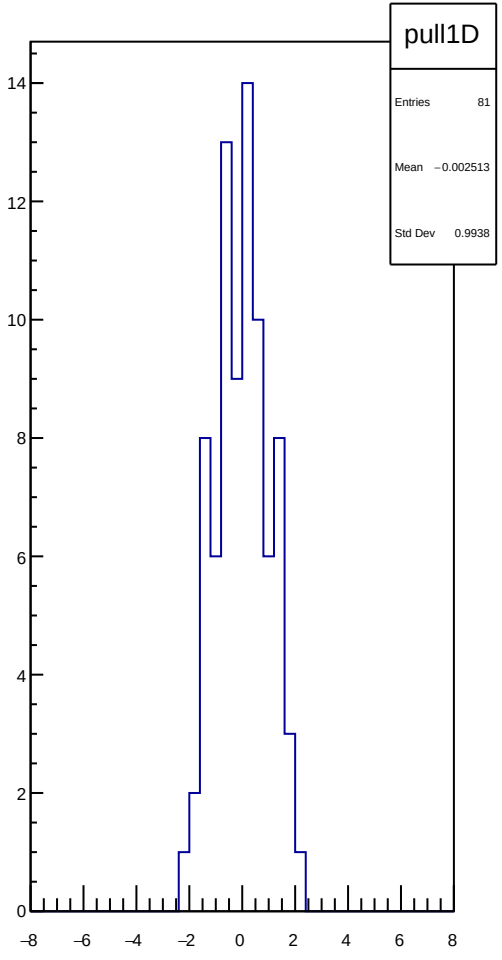

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.908e+04 / 80
p0 366.9 ± 0.3024
800
700
600
500
400
300

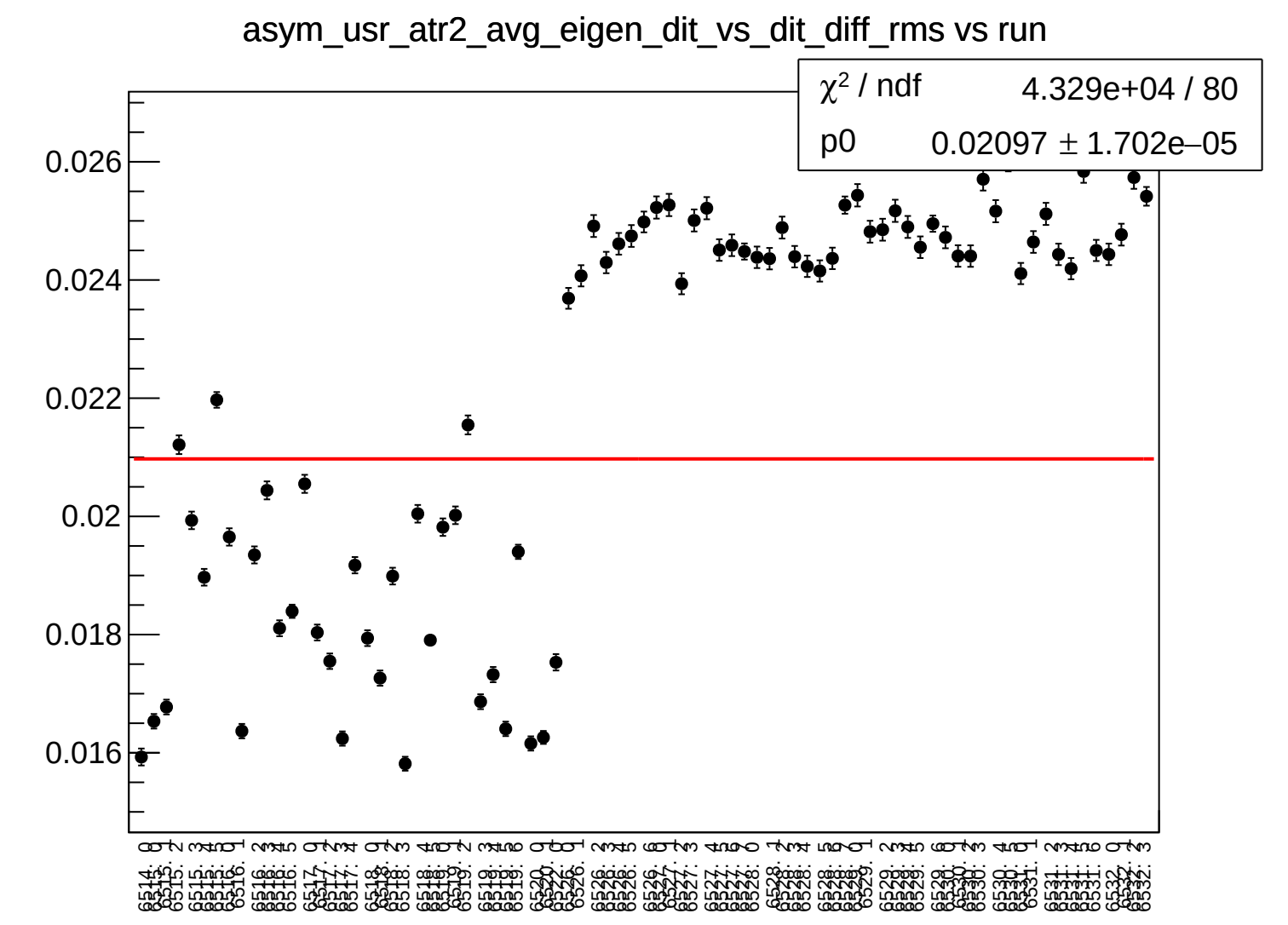

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.6 / 80
p0 0.501 ± 0.4277
pull
Entries 81
Mean −168.2
Std Dev 0

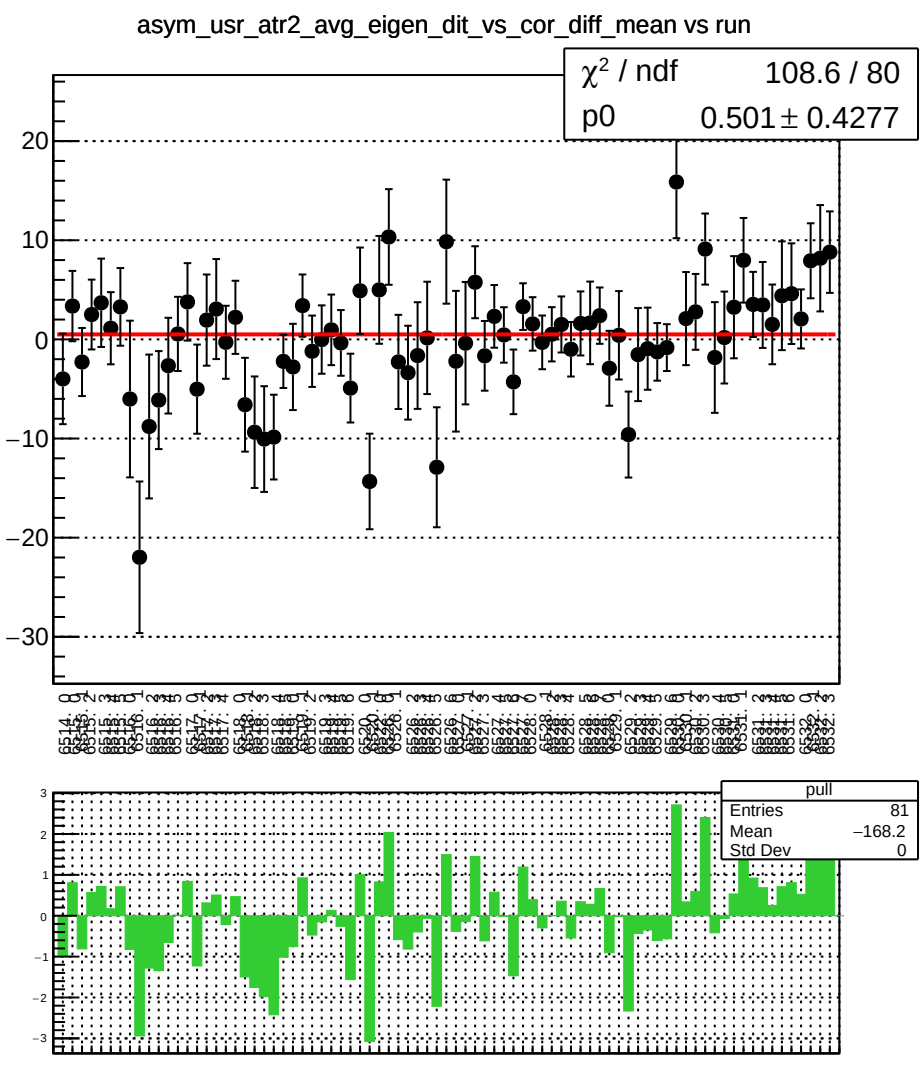

pull1D
Entries 81
Mean −0.04941
Std Dev 1.157

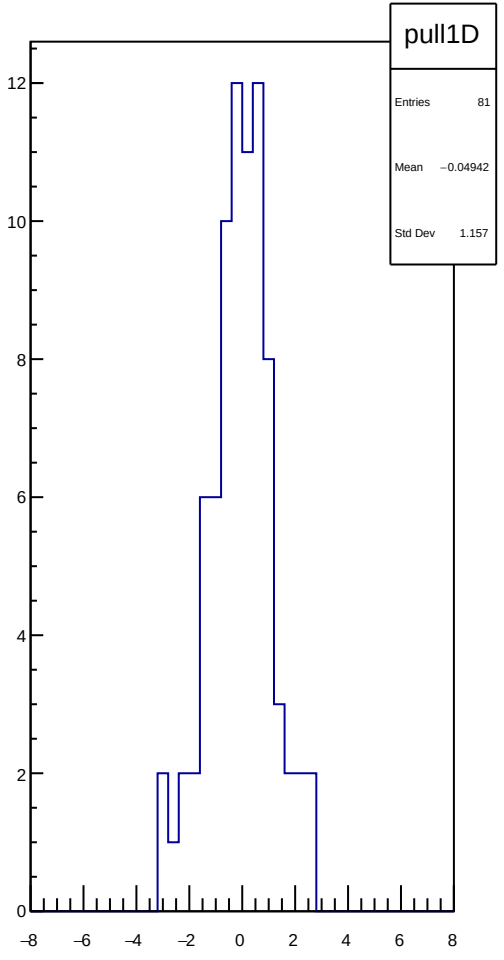

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.908e+04 / 80
p0 366.9 ± 0.3024
800
700
600
500
400
300

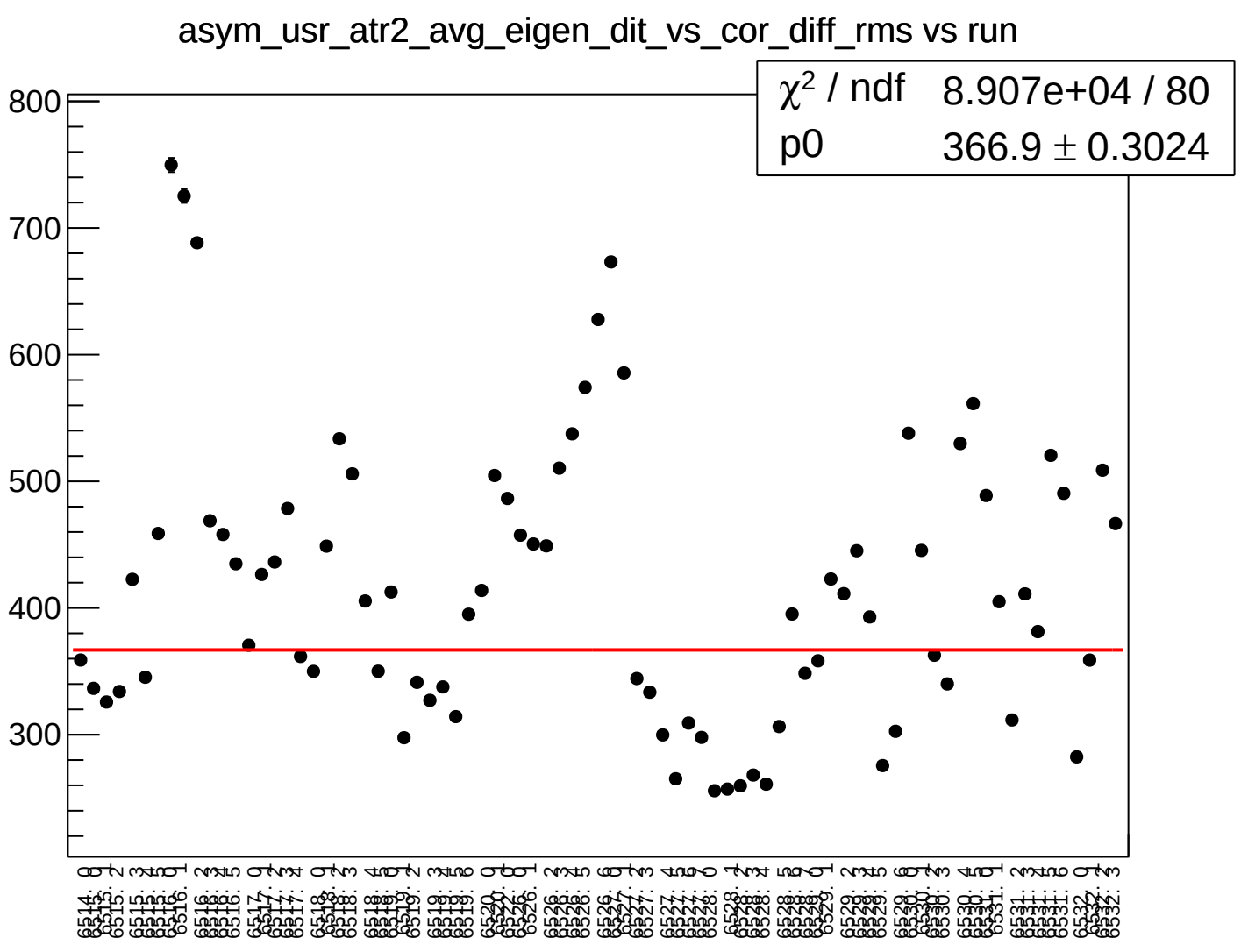

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80 / 80
p0 2.525e−06 ± 2.408e−05
pull
Entries 81
Mean 956.9
Std Dev 0

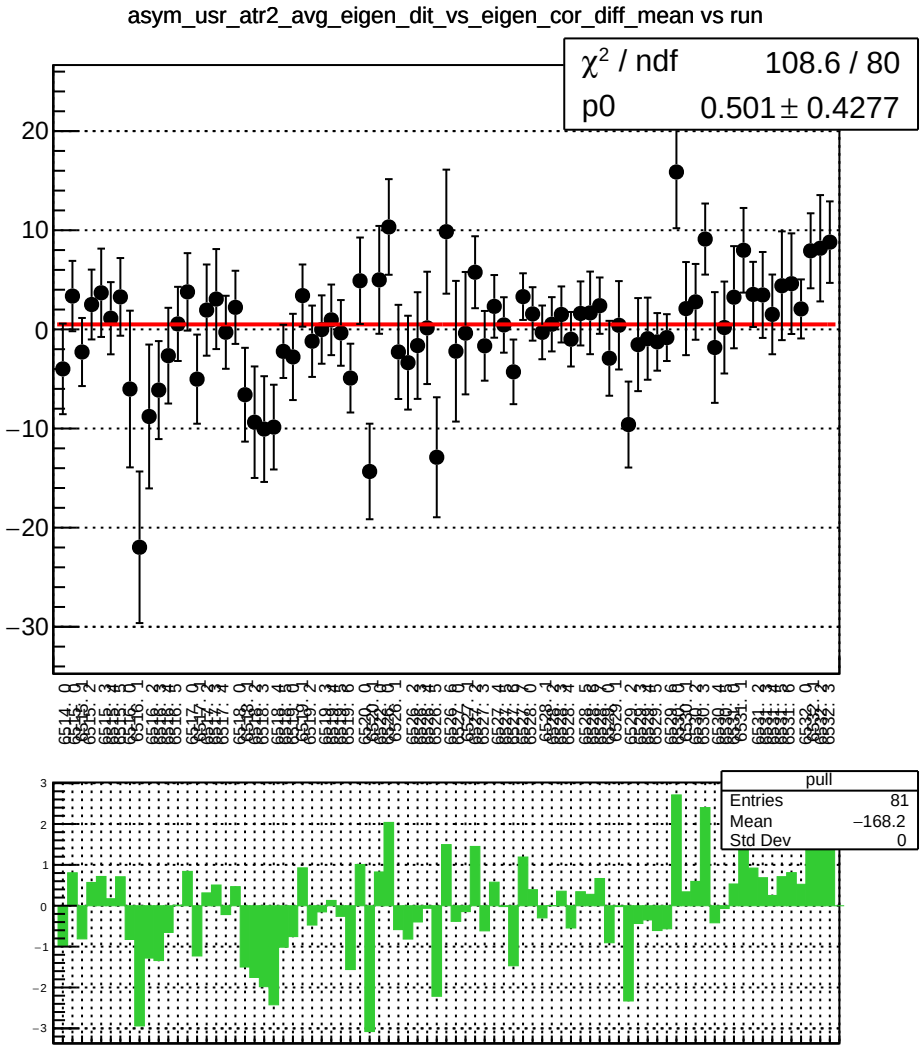

pull1D
Entries 81
Mean −0.002513
Std Dev 0.9938

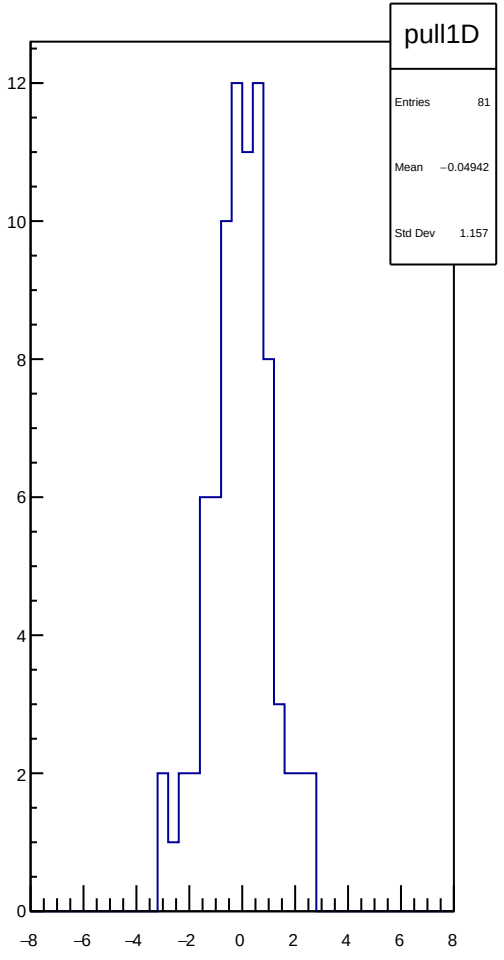

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.329e+04 / 80
p0 0.02097 ± 1.702e−05
0.026
0.024
0.022
0.02
0.018
0.016

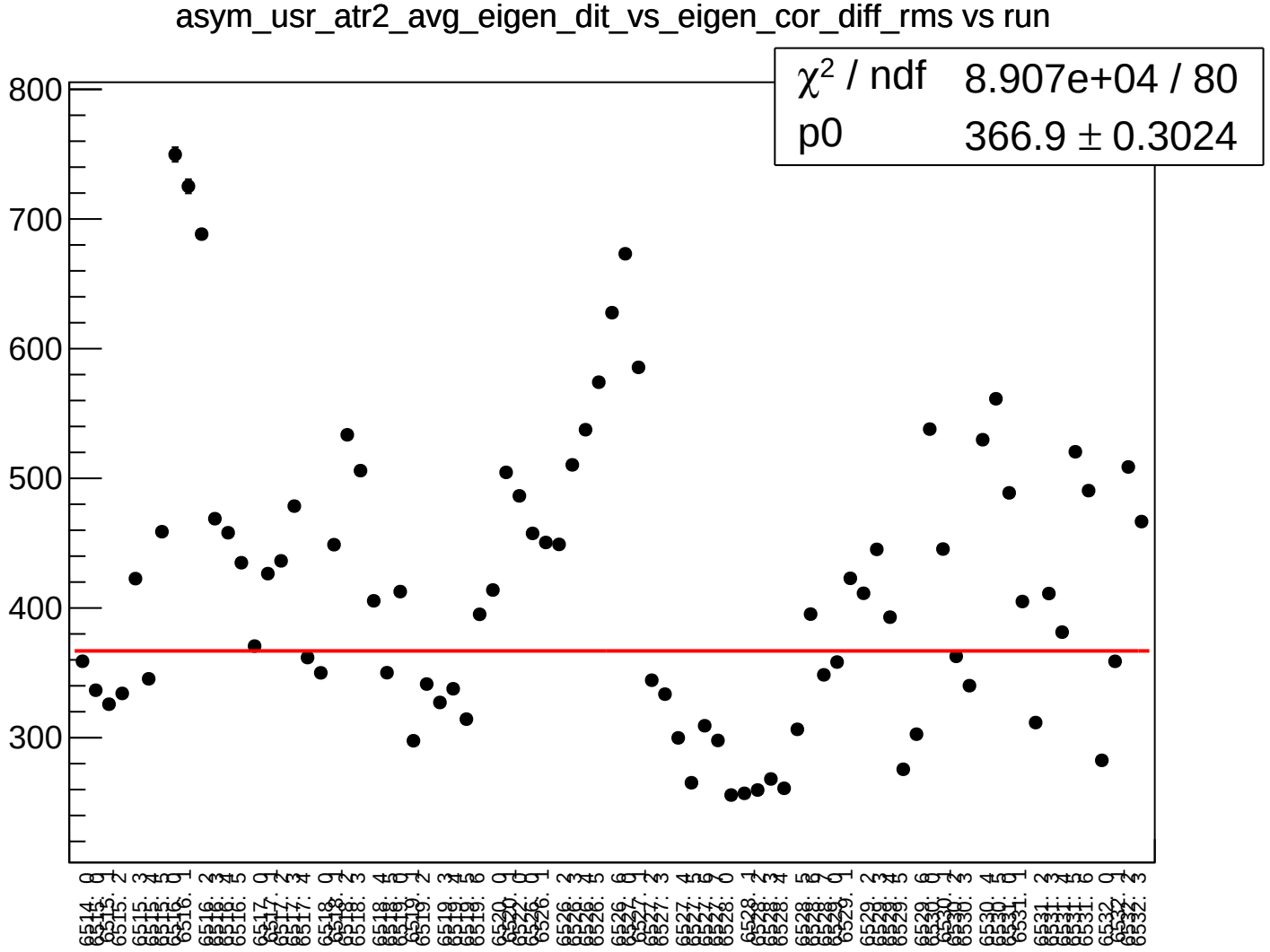

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 108.6 / 80
p0 0.501 ± 0.4277
pull
Entries 81
Mean −168.2
Std Dev 0

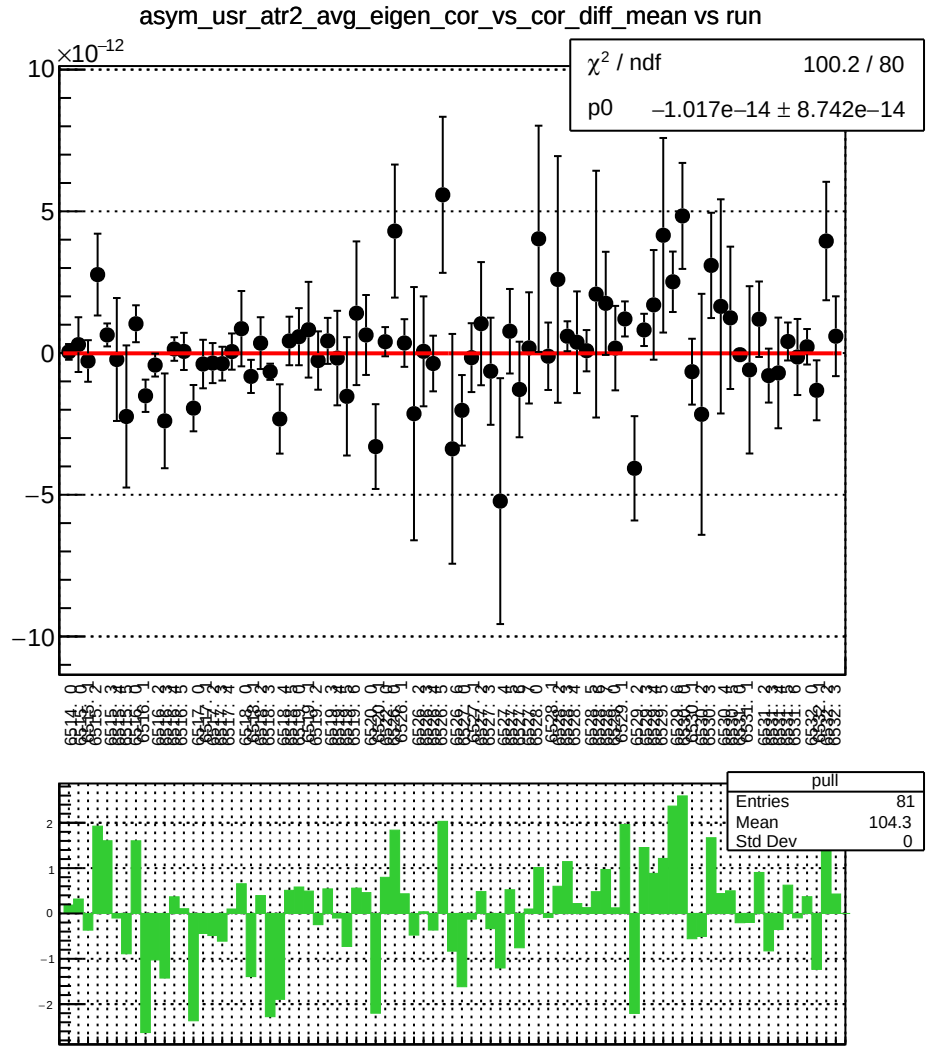

pull1D
Entries 81
Mean −0.04942
Std Dev 1.157

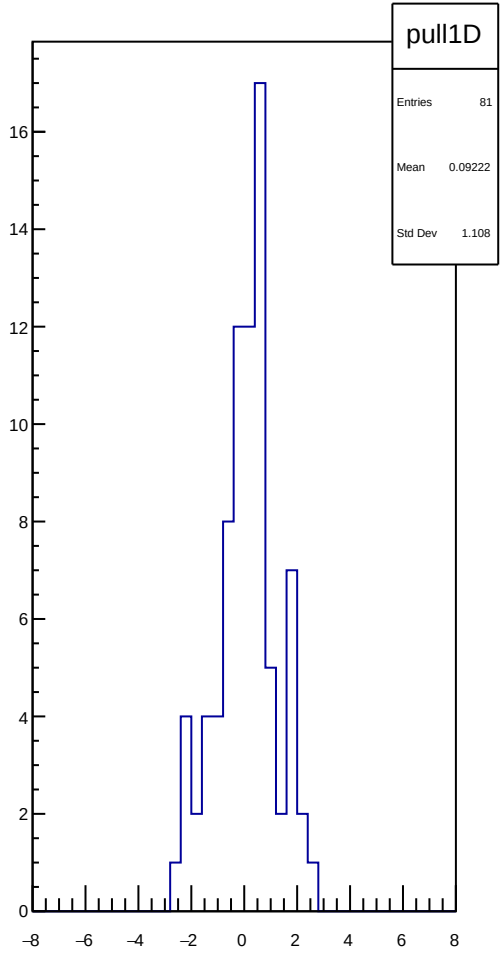

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.907e+04 / 80
p0 366.9 ± 0.3024
800
700
600
500
400
300

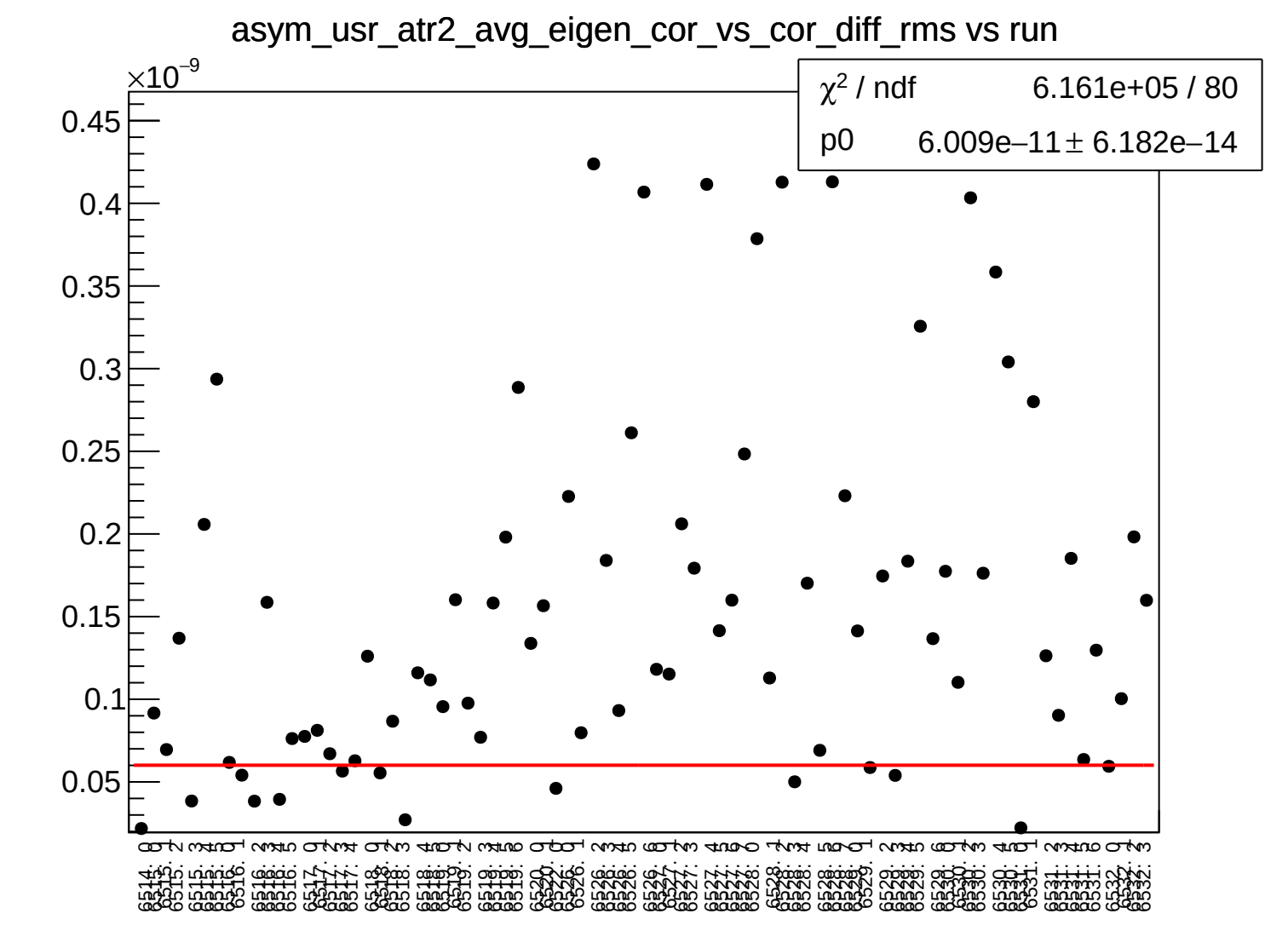

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.6 / 80
p0 0.501 ± 0.4277
pull
Entries 81
Mean −168.2
Std Dev 0

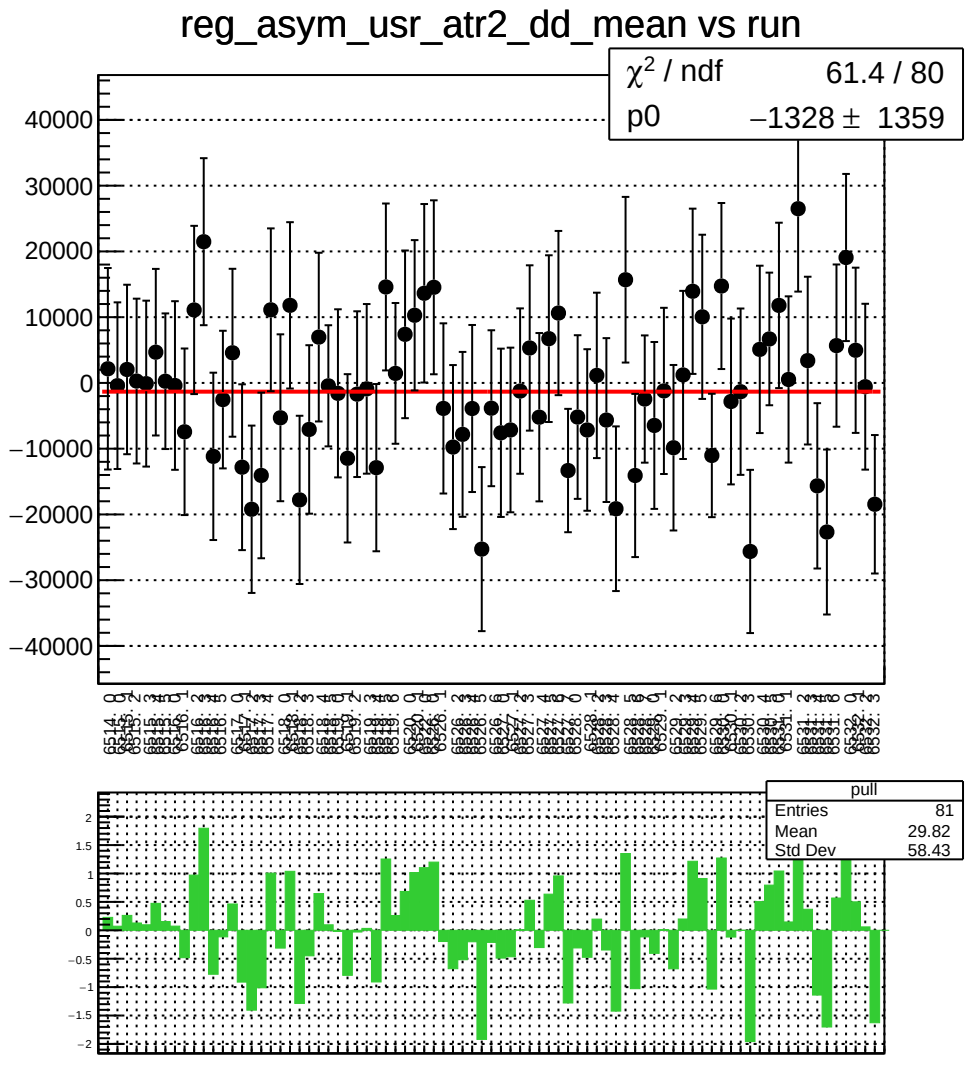

pull1D
Entries 81
Mean −0.04942
Std Dev 1.157

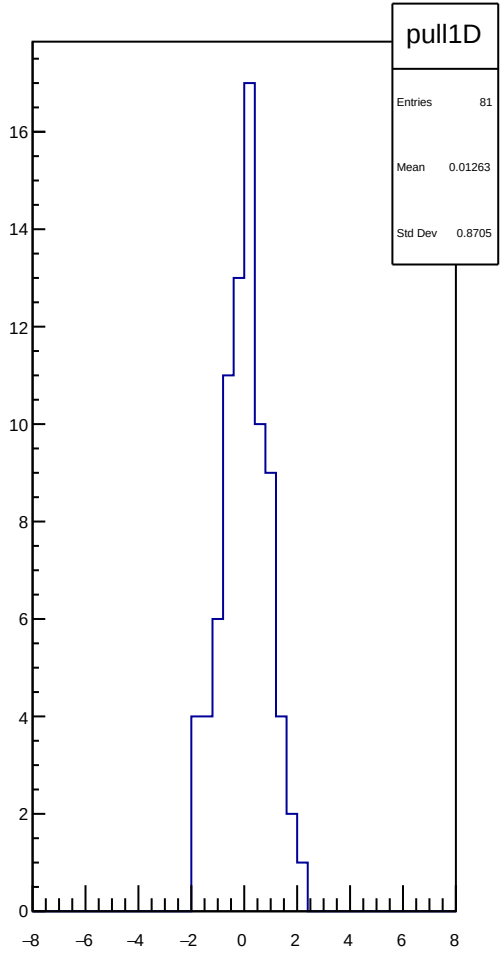

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.907e+04 / 80
p0 366.9 ± 0.3024
800
700
600
500
400
300

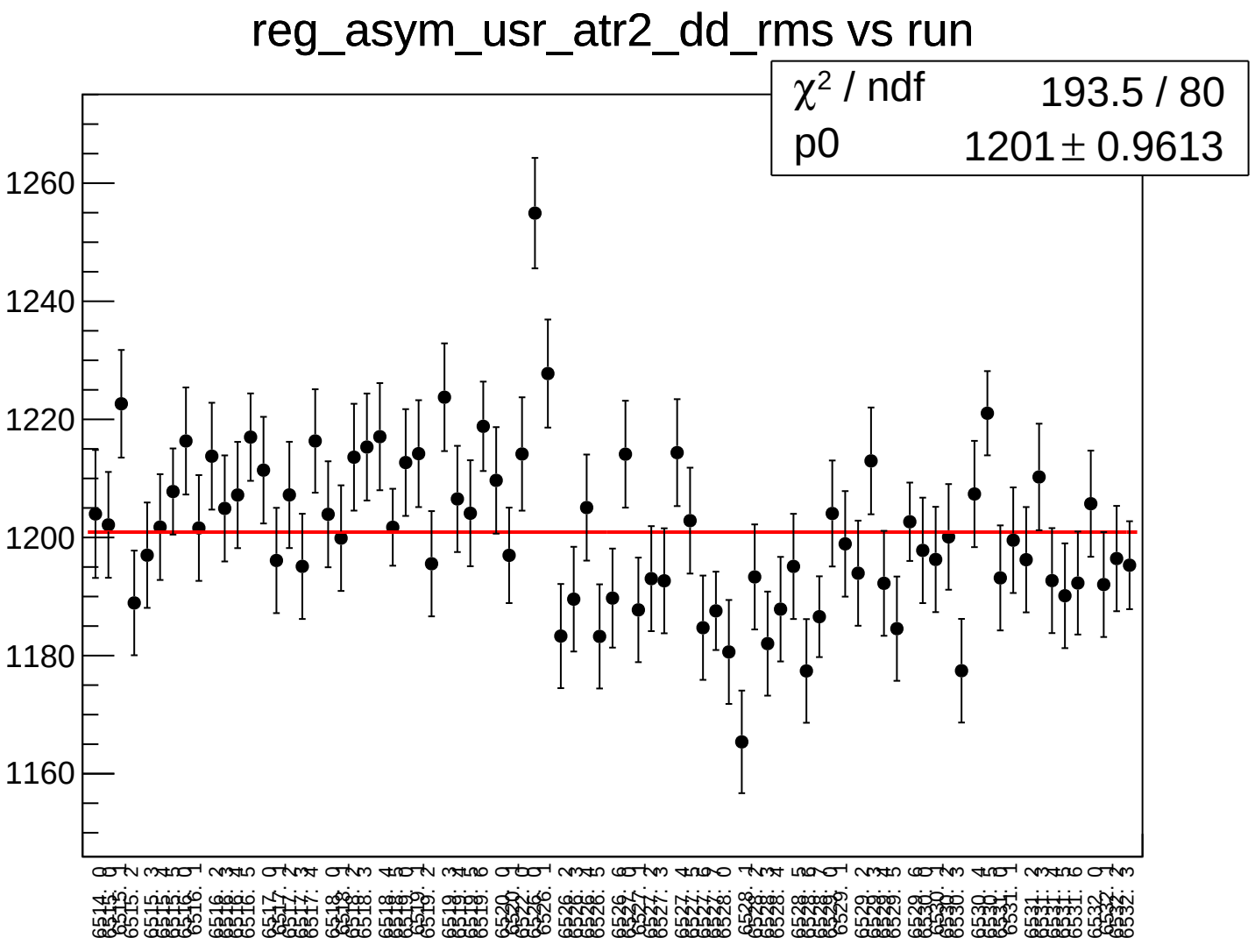

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 100.2 / 80
p0 −1.017e−14 ± 8.742e−14
pull
Entries 81
Mean 104.3
Std Dev 0

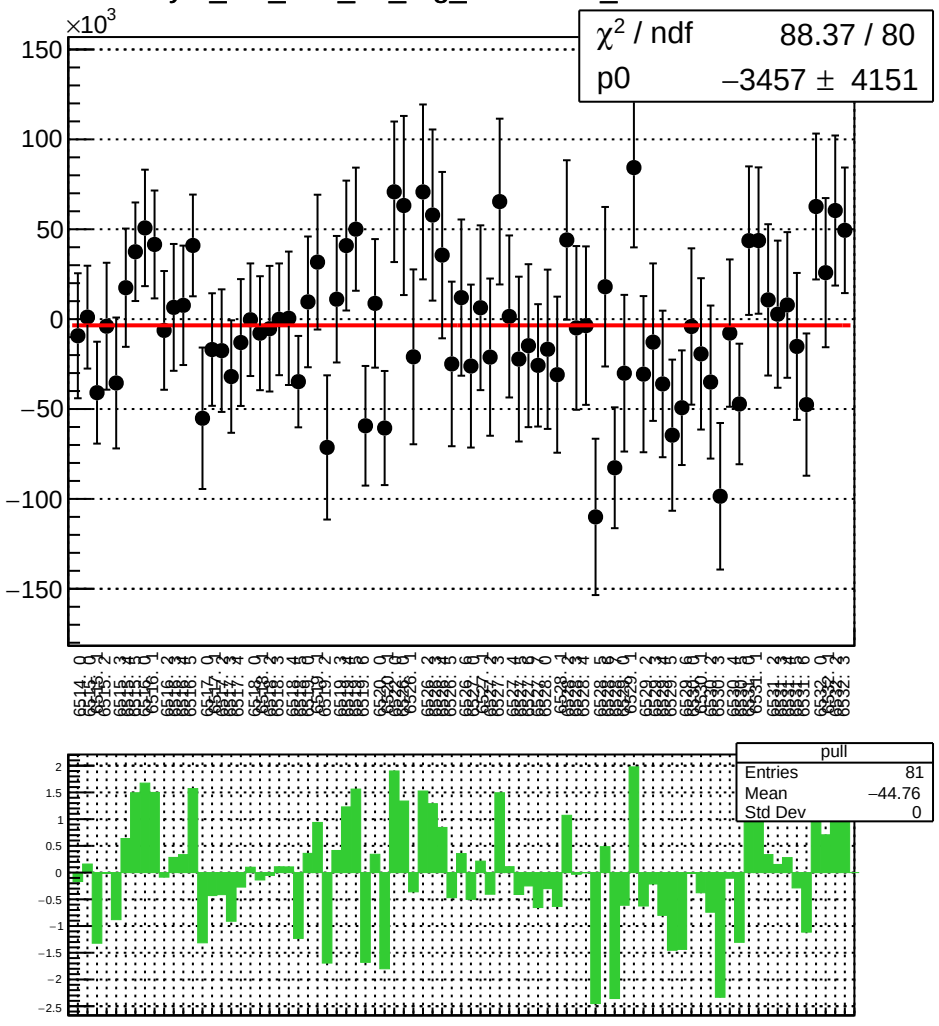

pull1D
Entries 81
Mean 0.09222
Std Dev 1.108

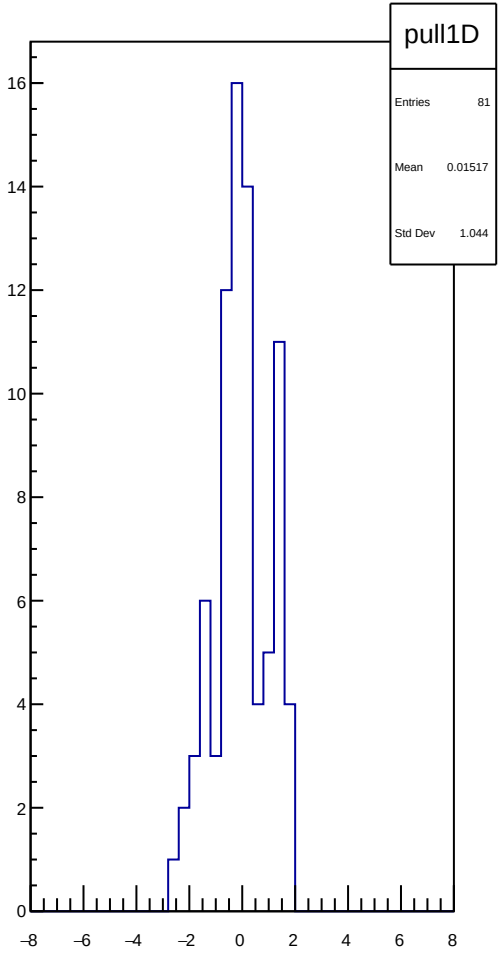

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.161e+05 / 80
p0 6.009e−11 ± 6.182e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

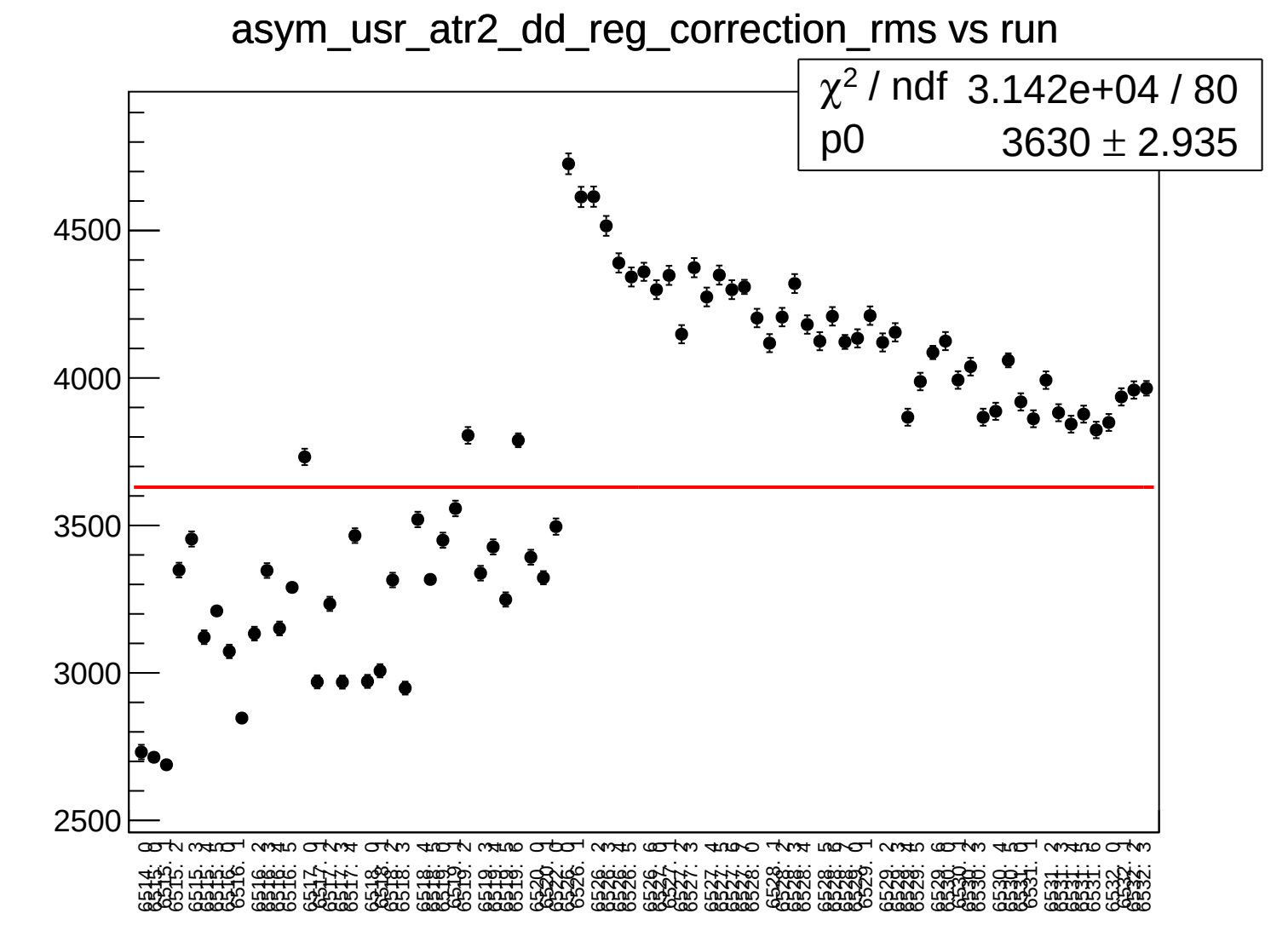

reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 61.4 / 80
p0 −1328 ± 1359
pull
Entries 81
Mean 29.82
Std Dev 58.43

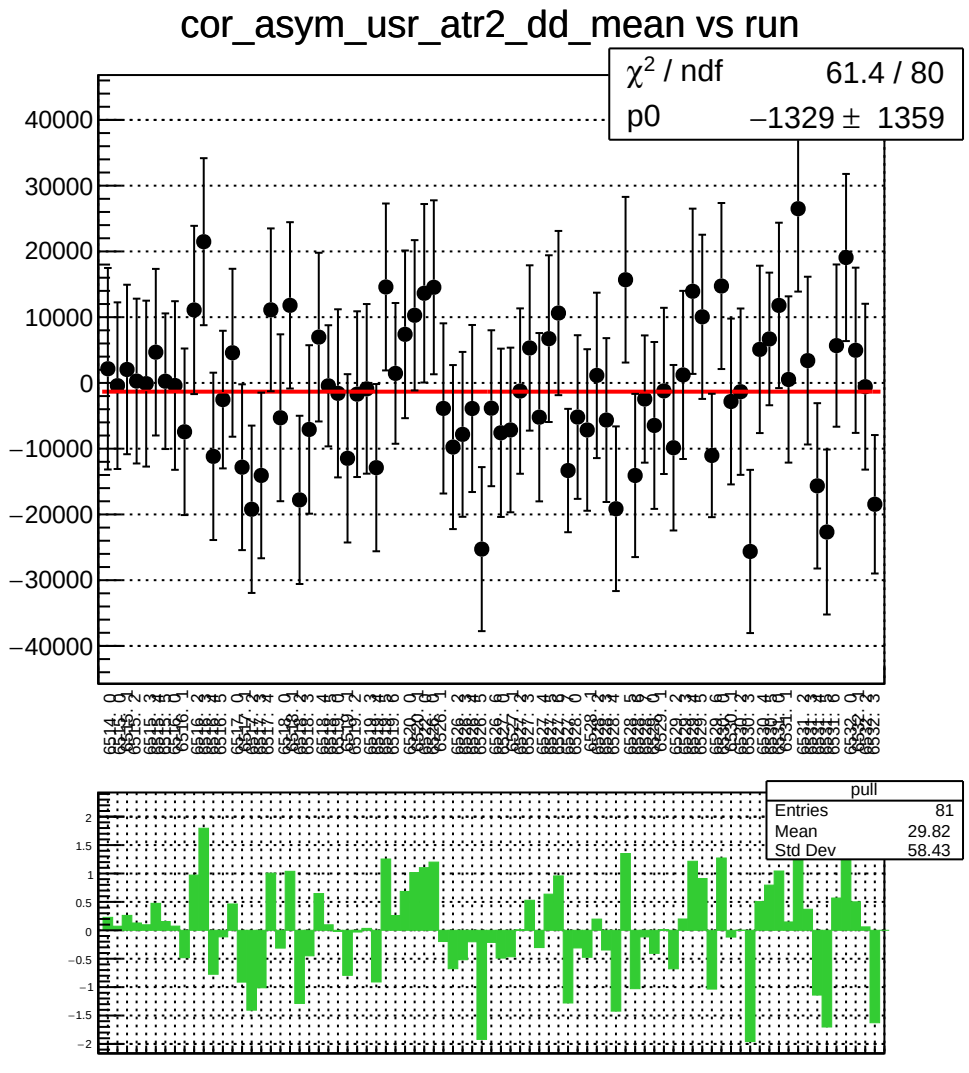

pull1D
Entries 81
Mean 0.01263
Std Dev 0.8705

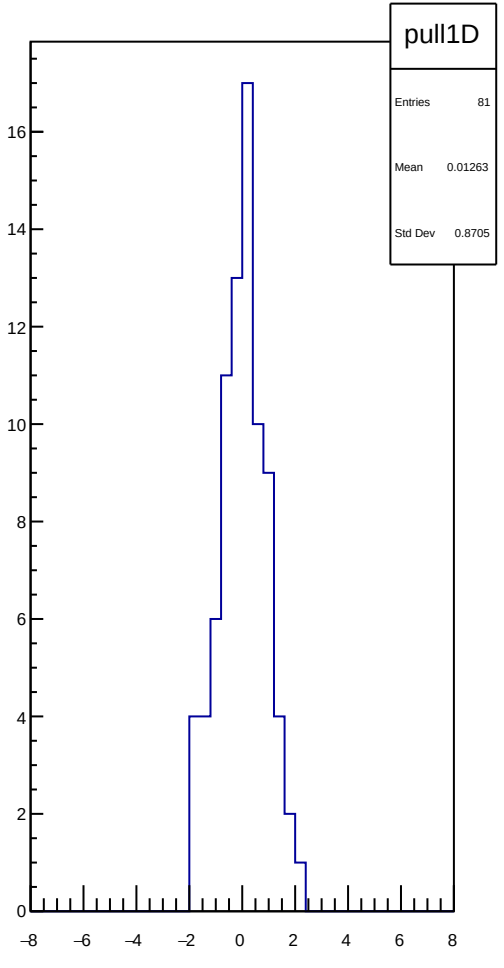

reg_asym_usr_atr2_dd_rms vs run
χ² / ndf 193.5 / 80
p0 1201 ± 0.9613
1260
1240
1220
1200
1180
1160

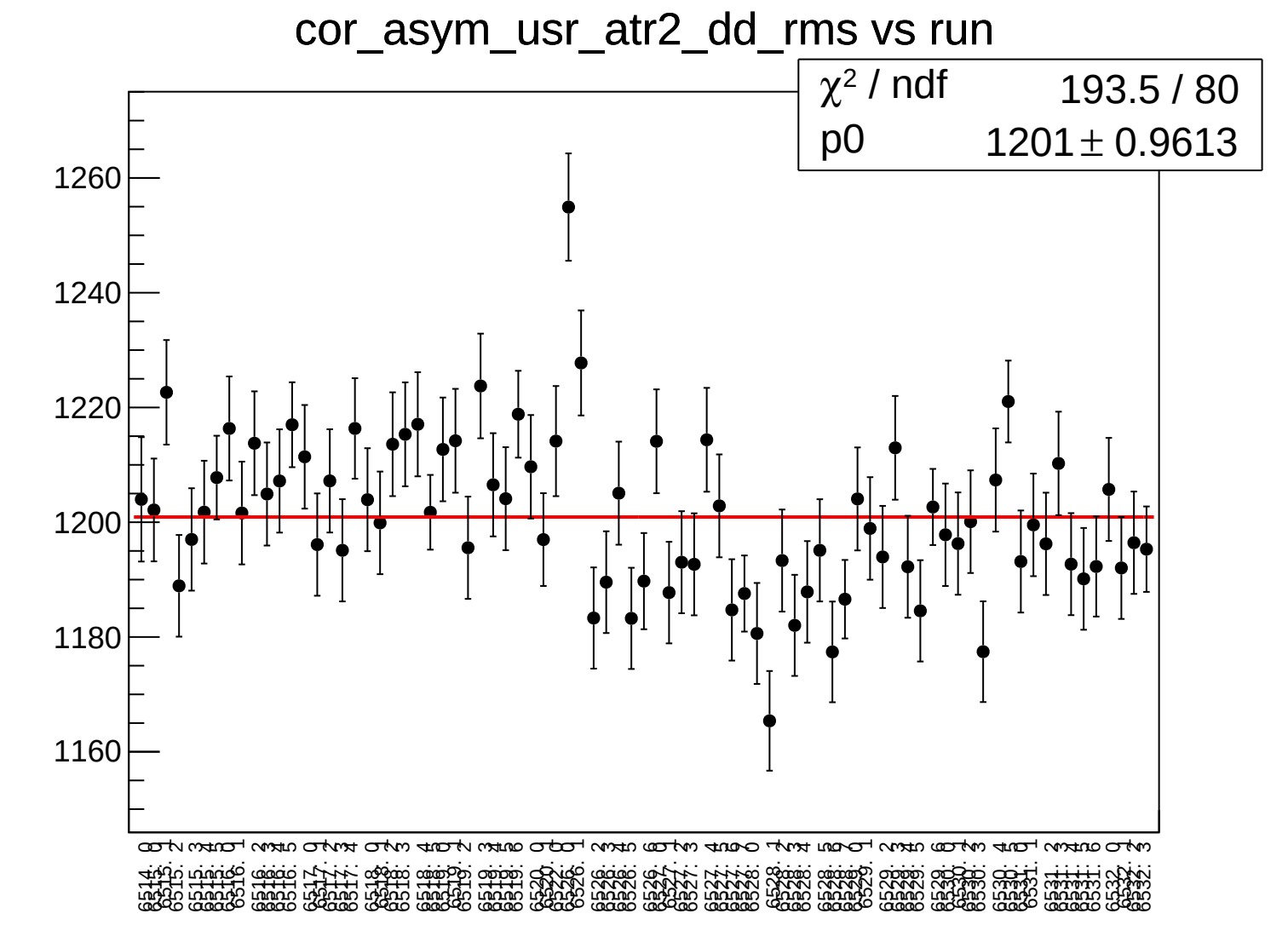

asym_usr_atr2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 88.37 / 80
p0 −3457 ± 4151
pull
Entries 81
Mean −44.76
Std Dev 0

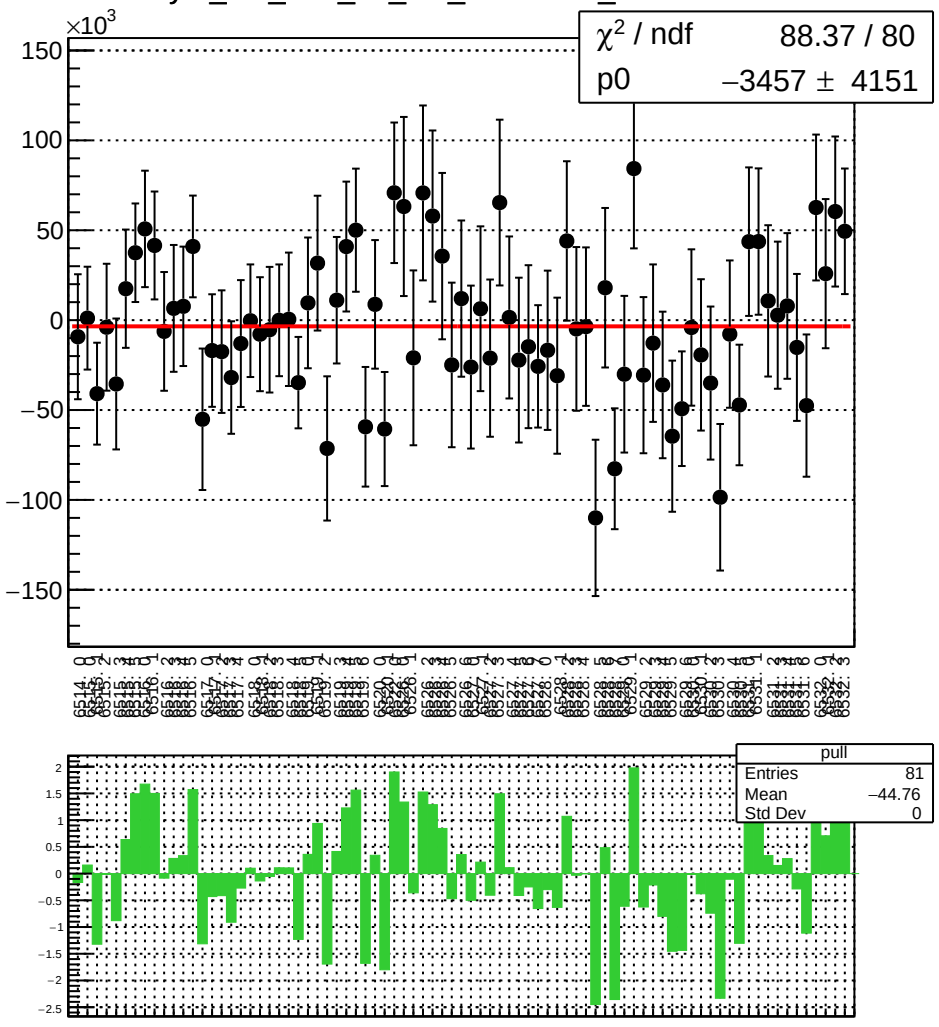

pull1D
Entries 81
Mean 0.01517
Std Dev 1.044

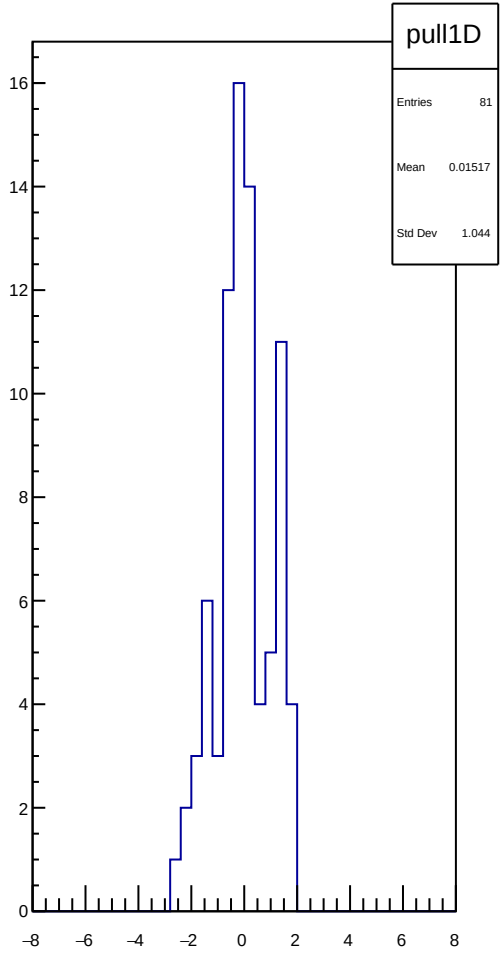

asym_usr_atr2_dd_reg_correction_rms vs run
χ² / ndf 3.142e+04 / 80
p0 3630 ± 2.935
4500
4000
3500
3000
2500

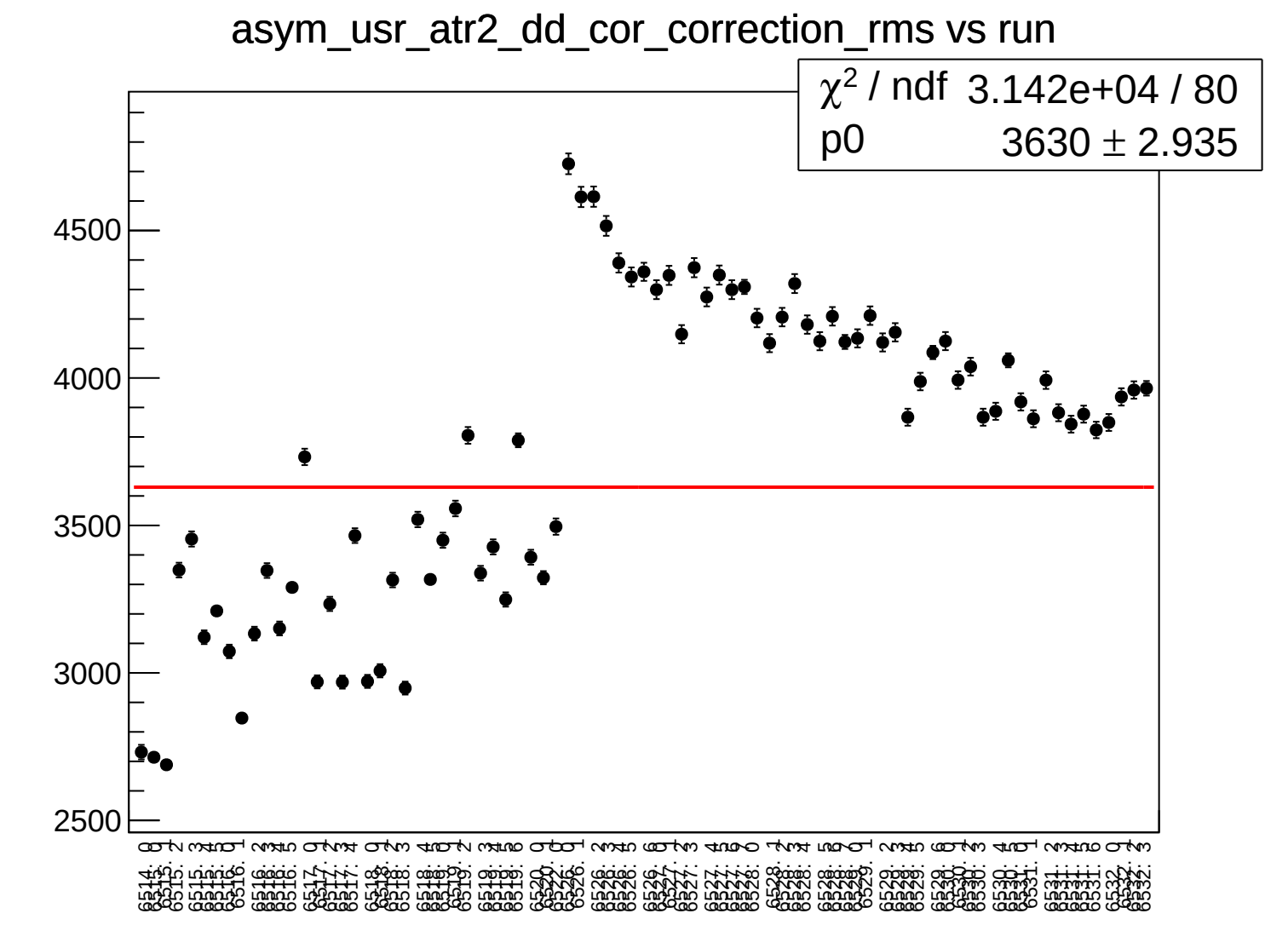

cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 61.4 / 80
p0 −1329 ± 1359
pull
Entries 81
Mean 29.82
Std Dev 58.43

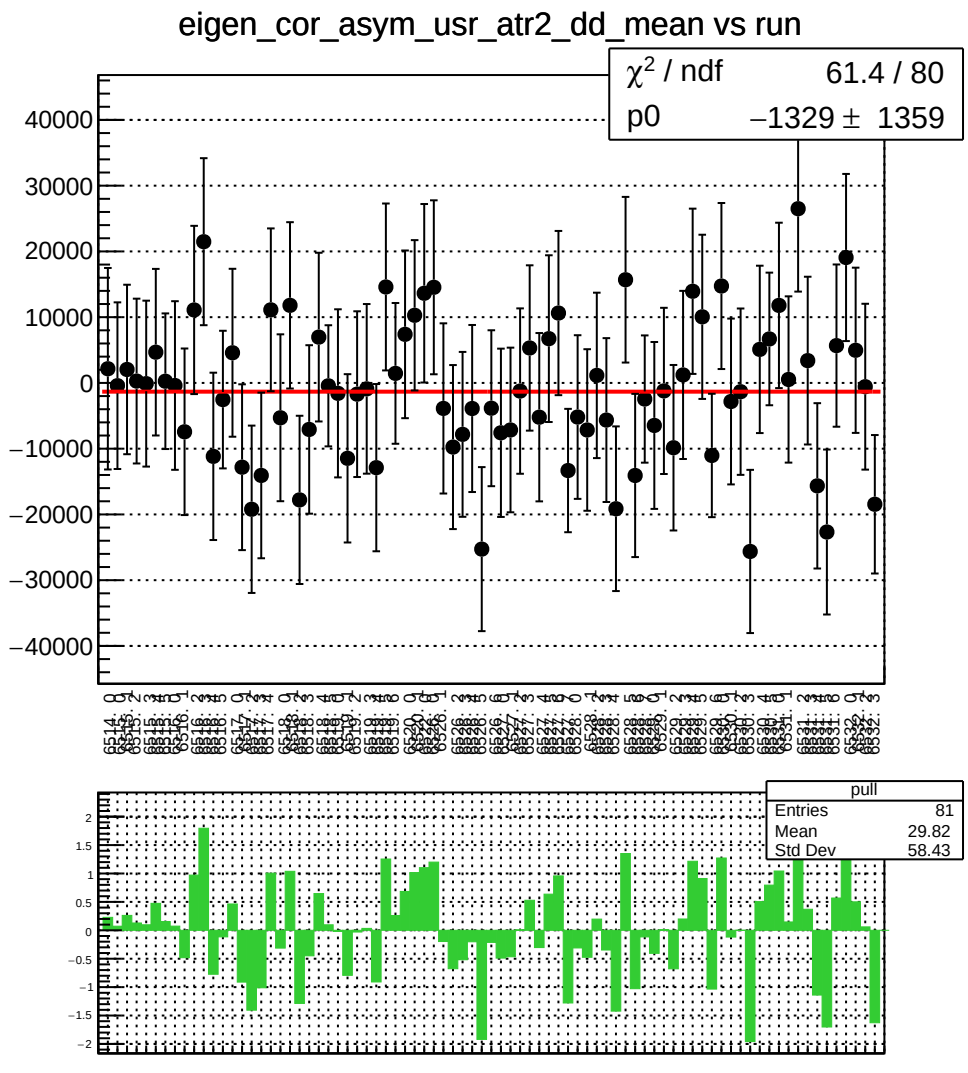

pull1D
Entries 81
Mean 0.01263
Std Dev 0.8705

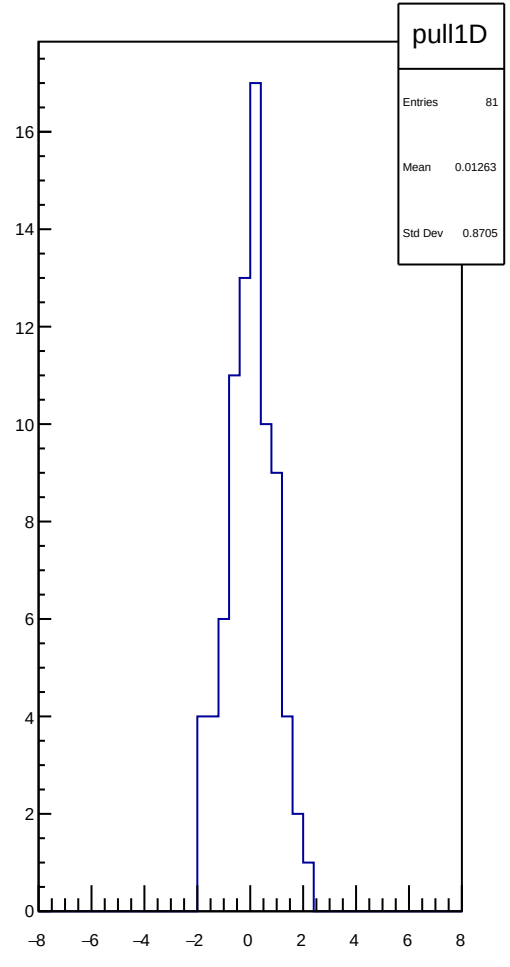

cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 193.5 / 80
p0 1201 ± 0.9613
1260
1240
1220
1200
1180
1160

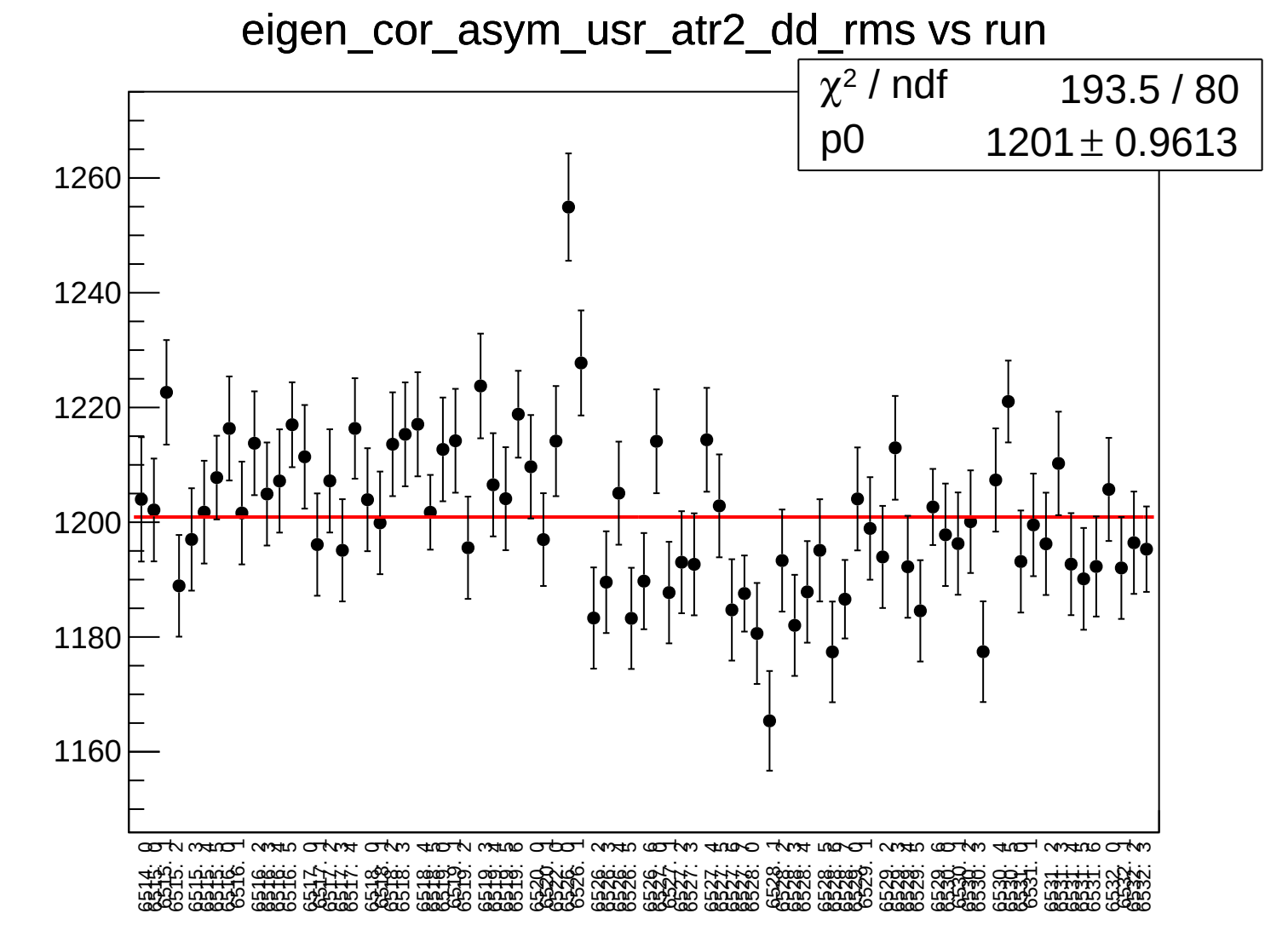

asym_usr_atr2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 88.37 / 80
p0 −3457 ± 4151
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean −44.76
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

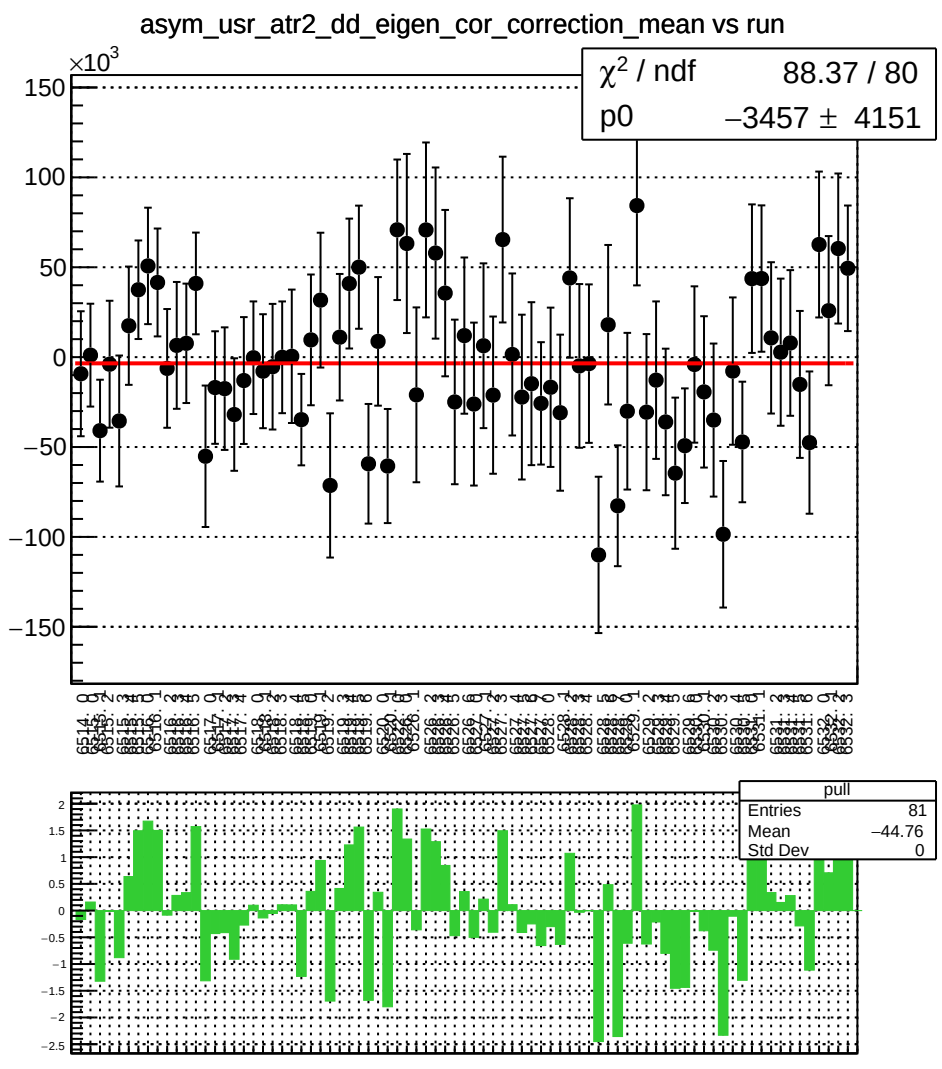

pull1D
Entries 81
Mean 0.01517
Std Dev 1.044
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

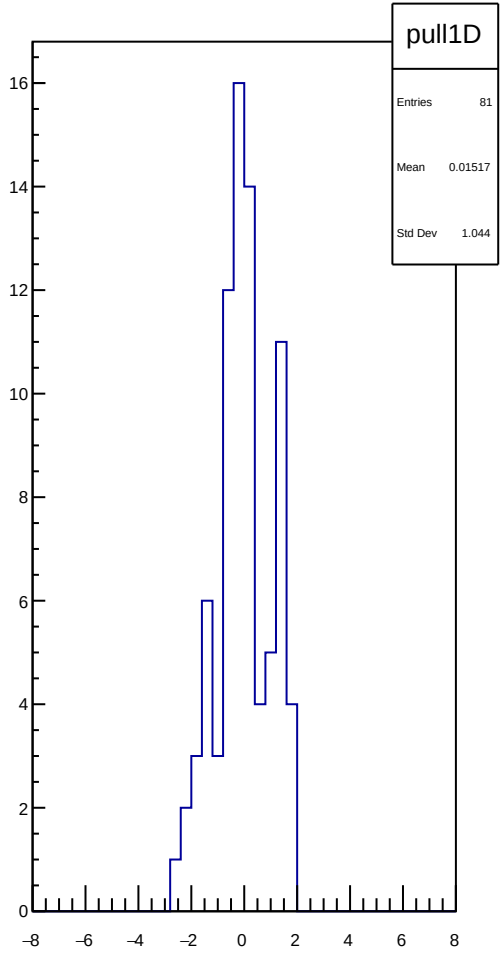

asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 3.142e+04 / 80
p0 3630 ± 2.935
4500
4000
3500
3000
2500

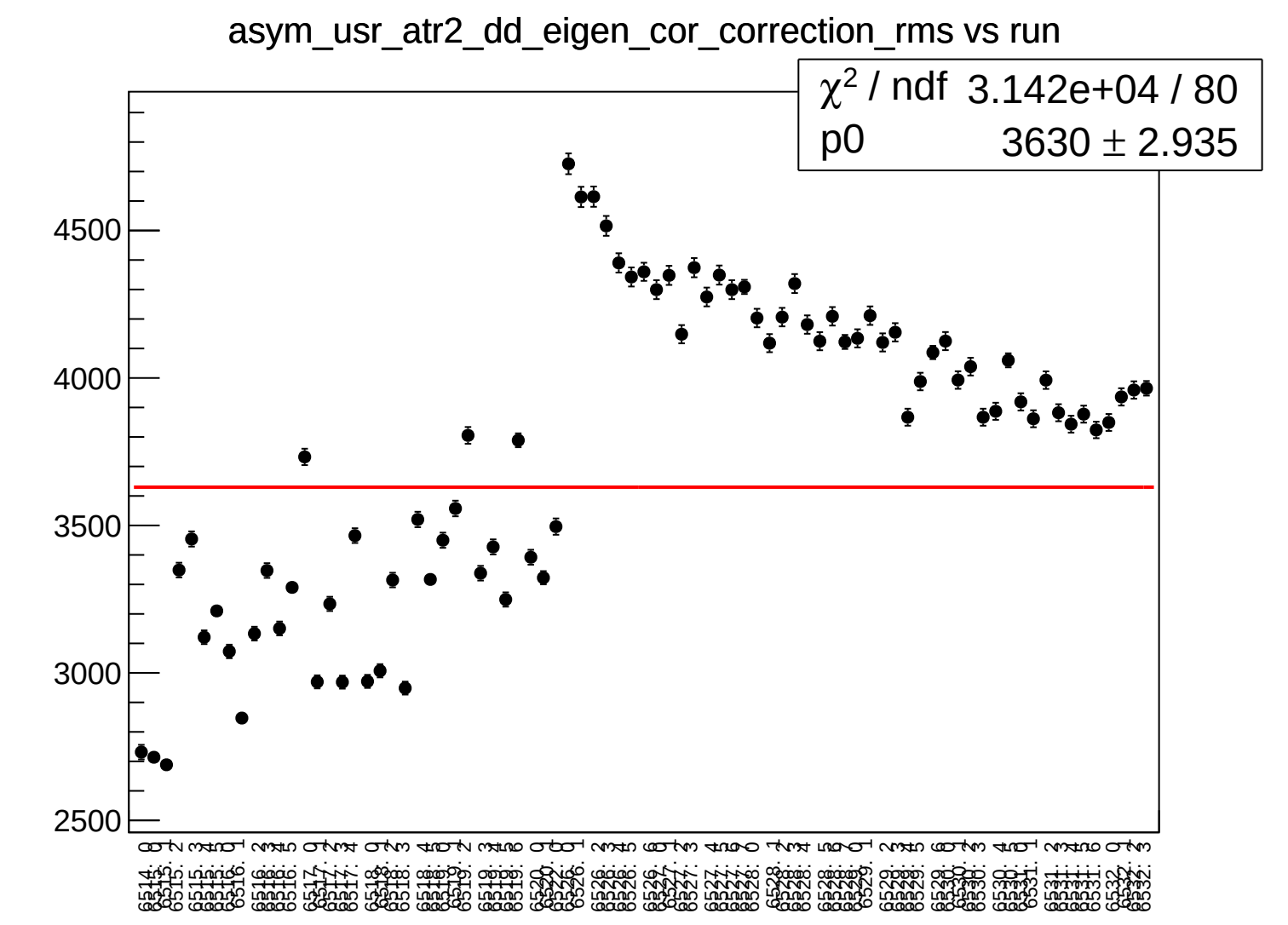

eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 61.4 / 80
p0 −1329 ± 1359
pull
Entries 81
Mean 29.82
Std Dev 58.43

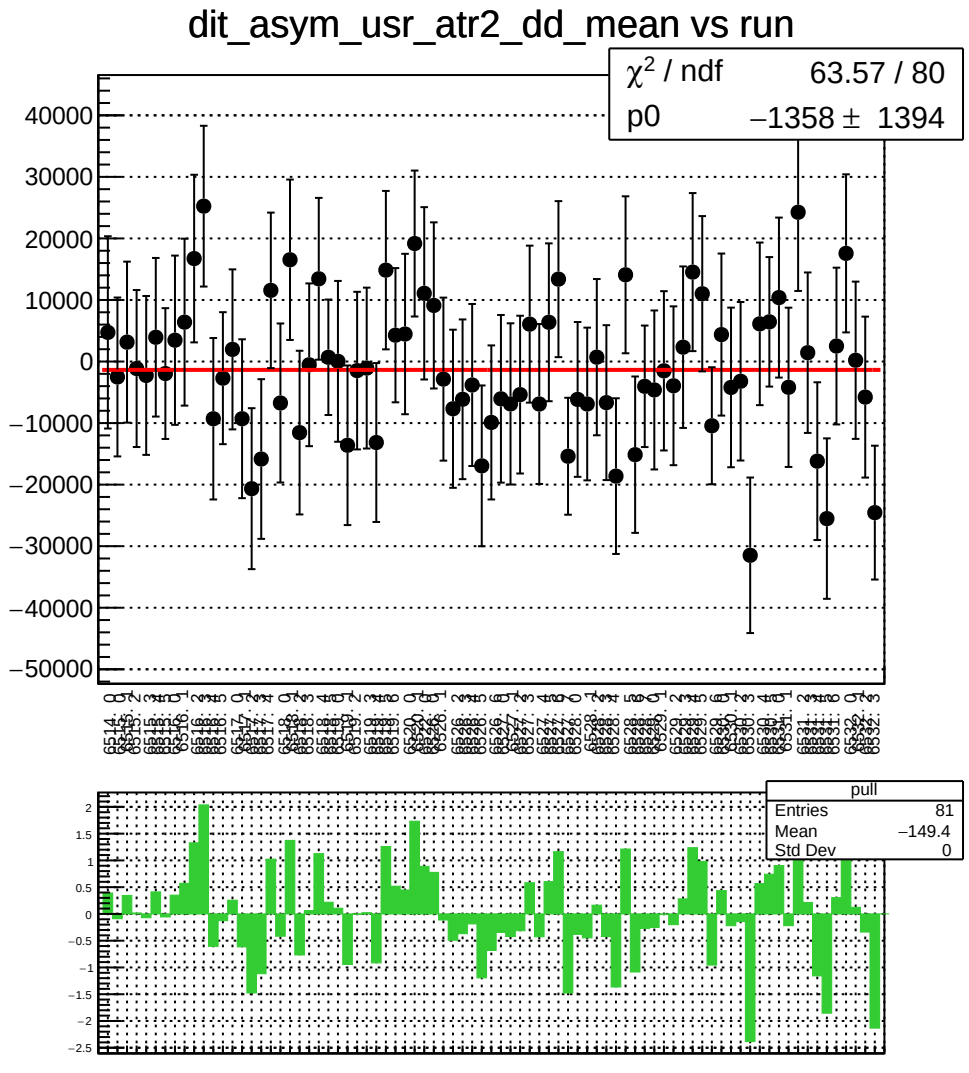

pull1D
Entries 81
Mean 0.01263
Std Dev 0.8705

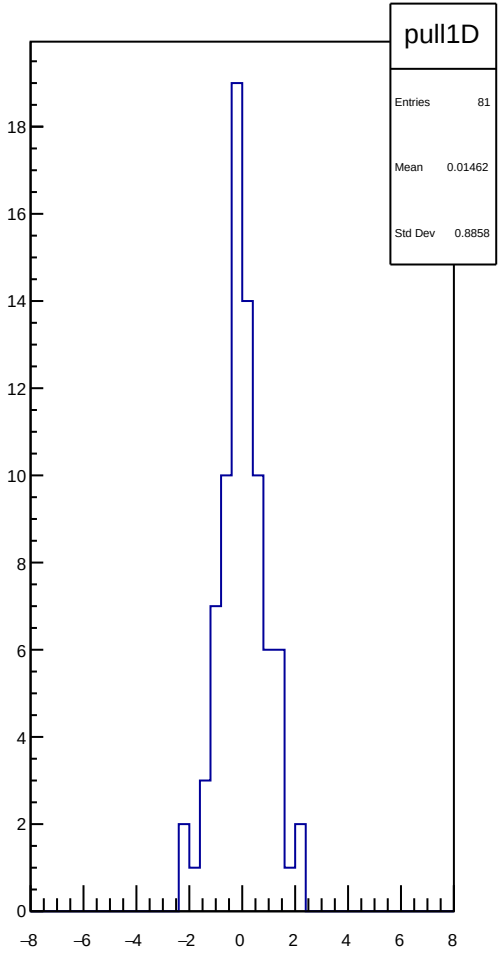

eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 193.5 / 80
p0 1201 ± 0.9613
1260
1240
1220
1200
1180
1160

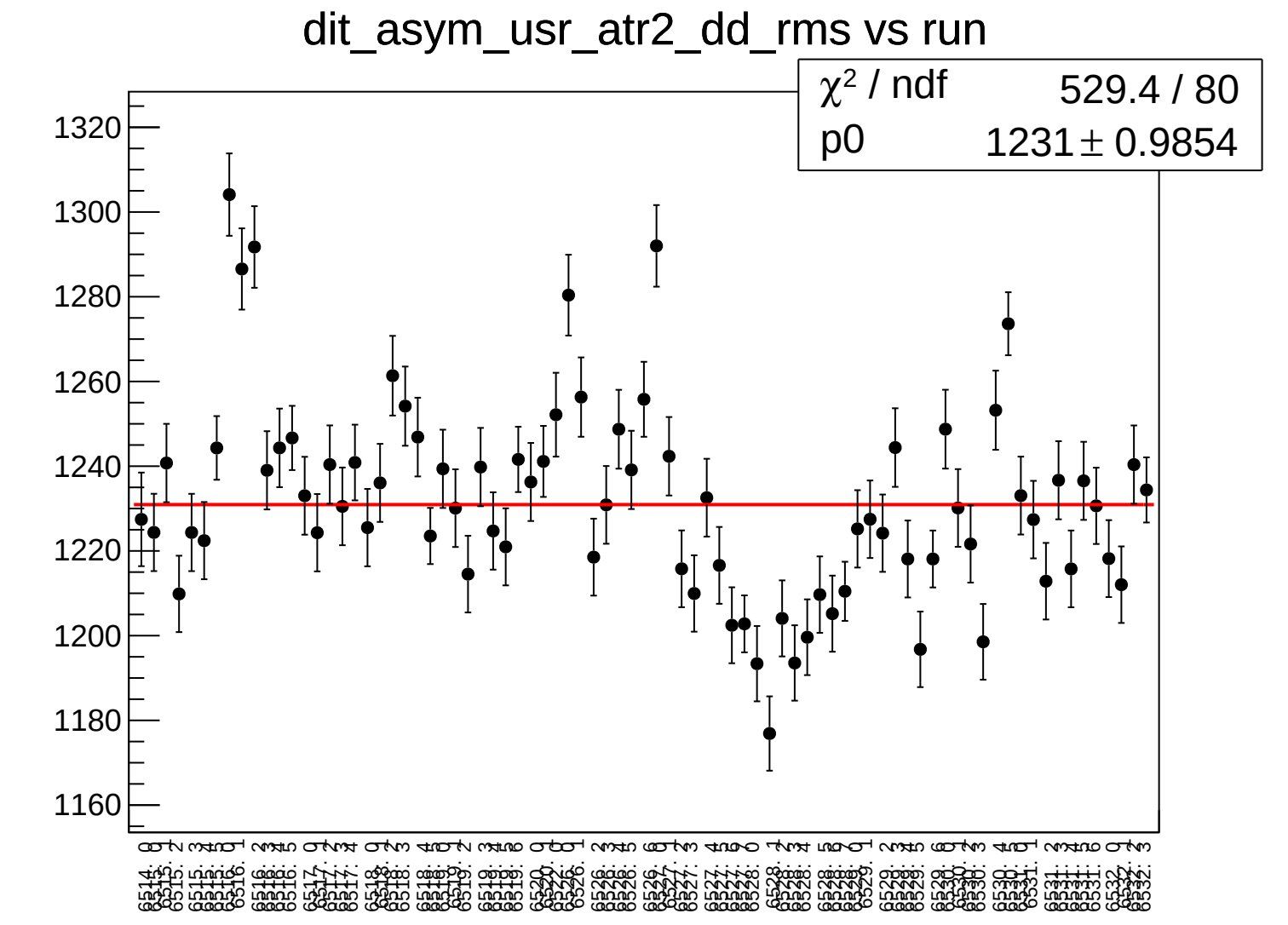

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 88.37 / 80
p0 −3457 ± 4151
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean −44.76
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

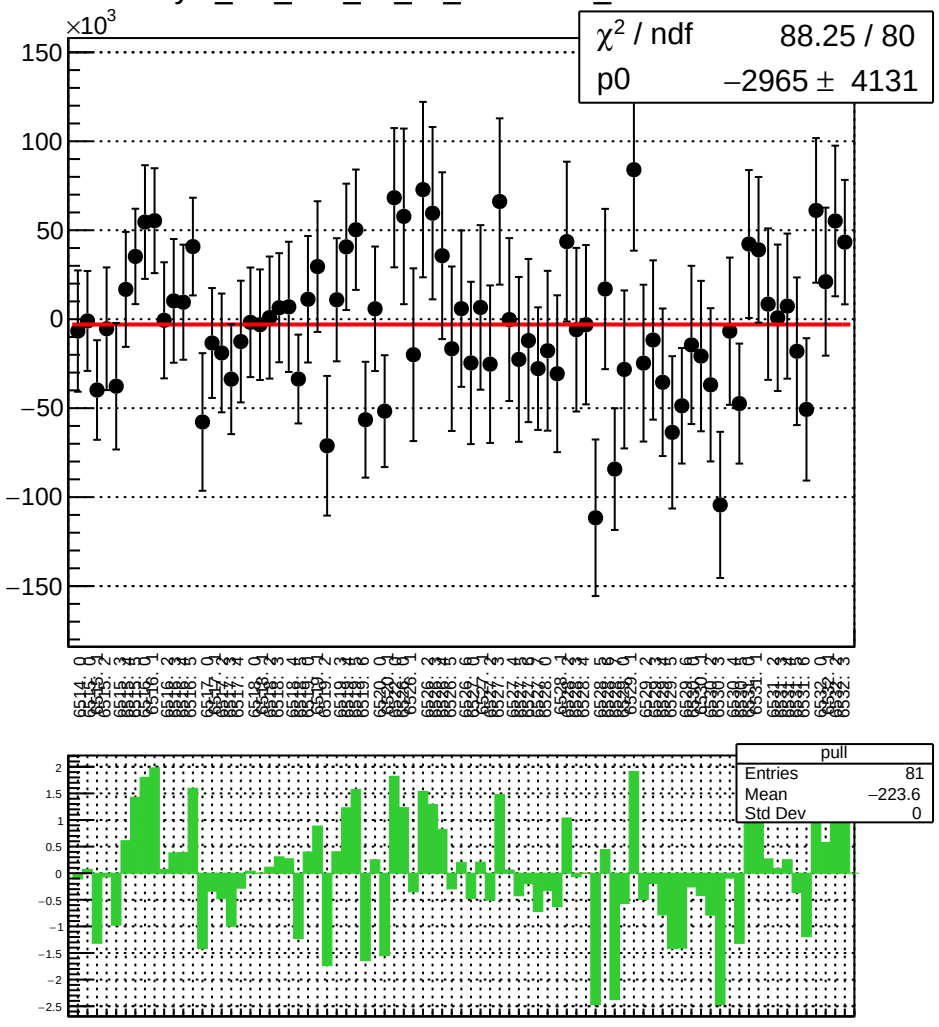

pull1D
Entries 81
Mean 0.01517
Std Dev 1.044
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

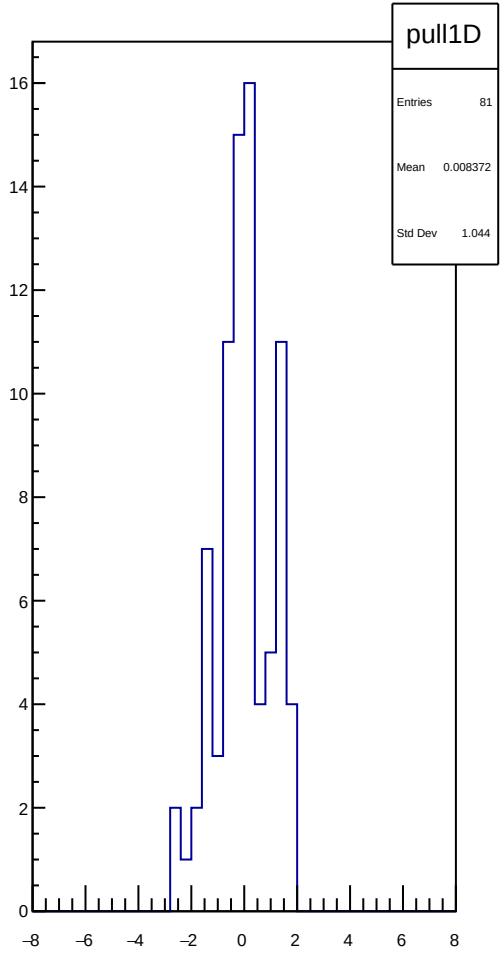

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.142e+04 / 80
p0 3630 ± 2.935
4500
4000
3500
3000
2500

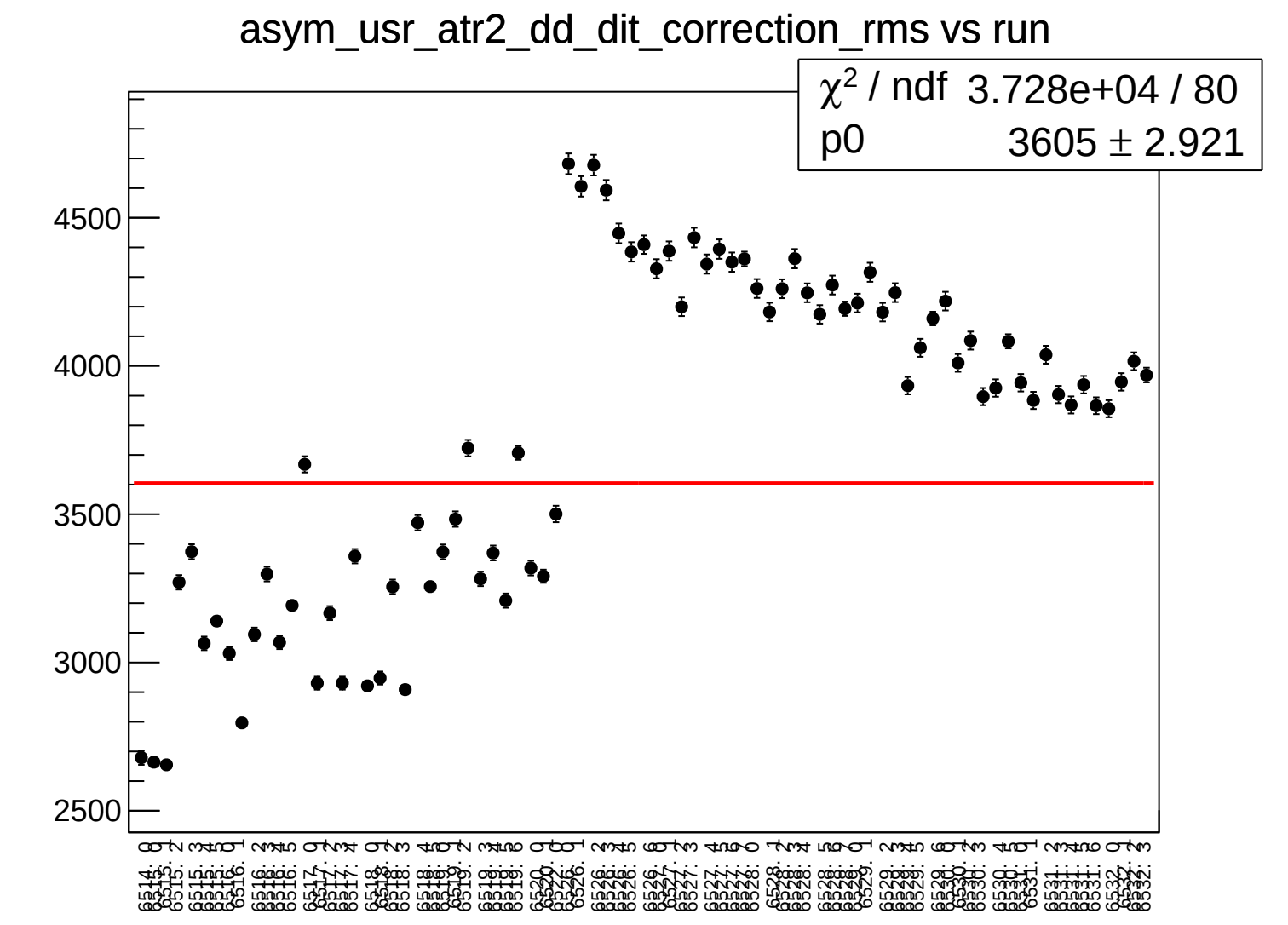

dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 63.57 / 80
p0 −1358 ± 1394
pull
Entries 81
Mean −149.4
Std Dev 0

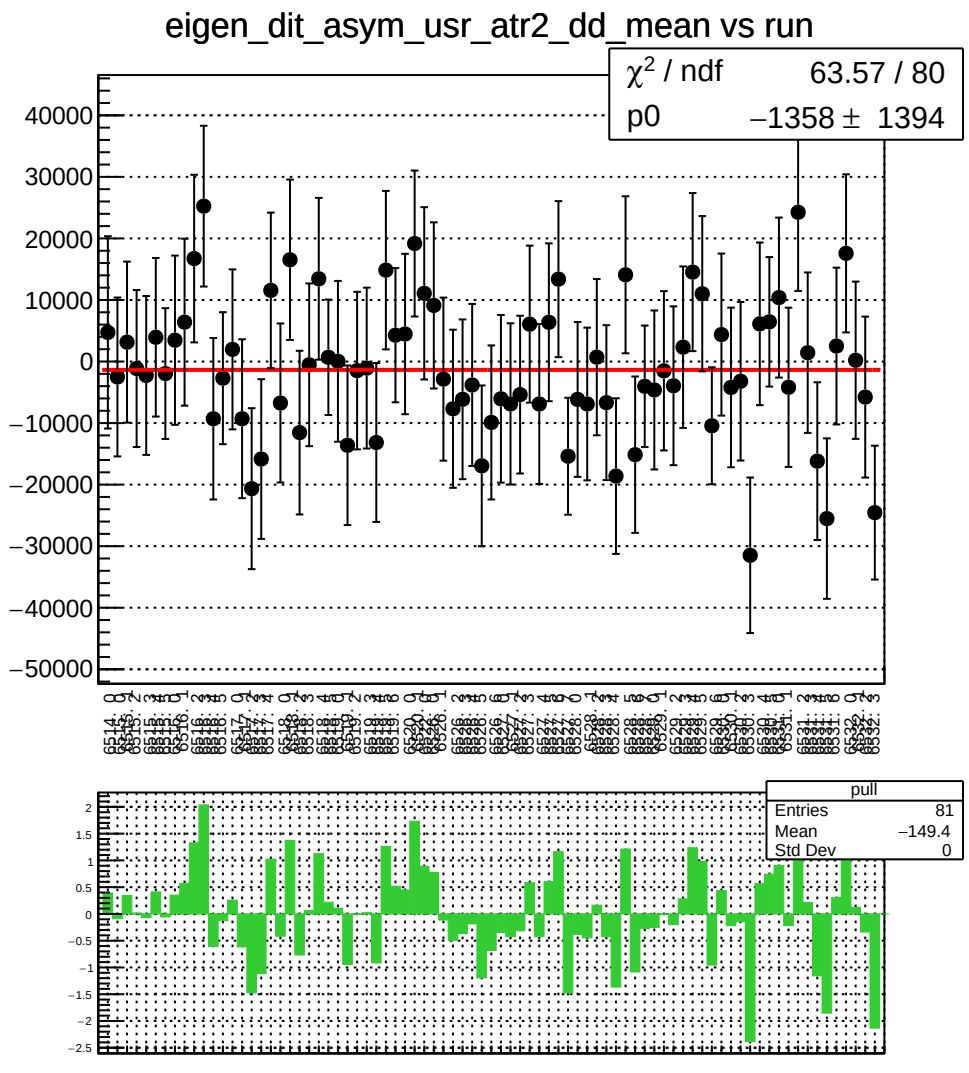

pull1D
Entries 81
Mean 0.01462
Std Dev 0.8858

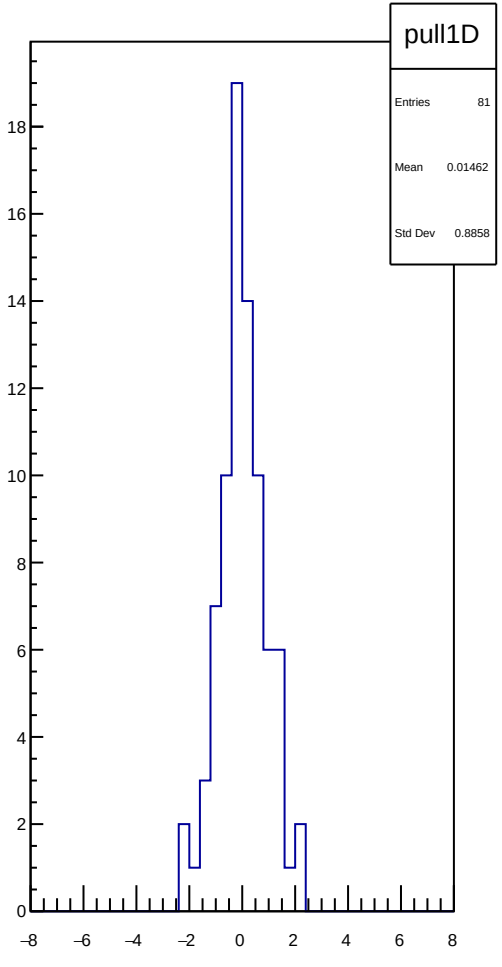

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 529.4 / 80
p0 1231 ± 0.9854
1320
1300
1280
1260
1240
1220
1200
1180
1160

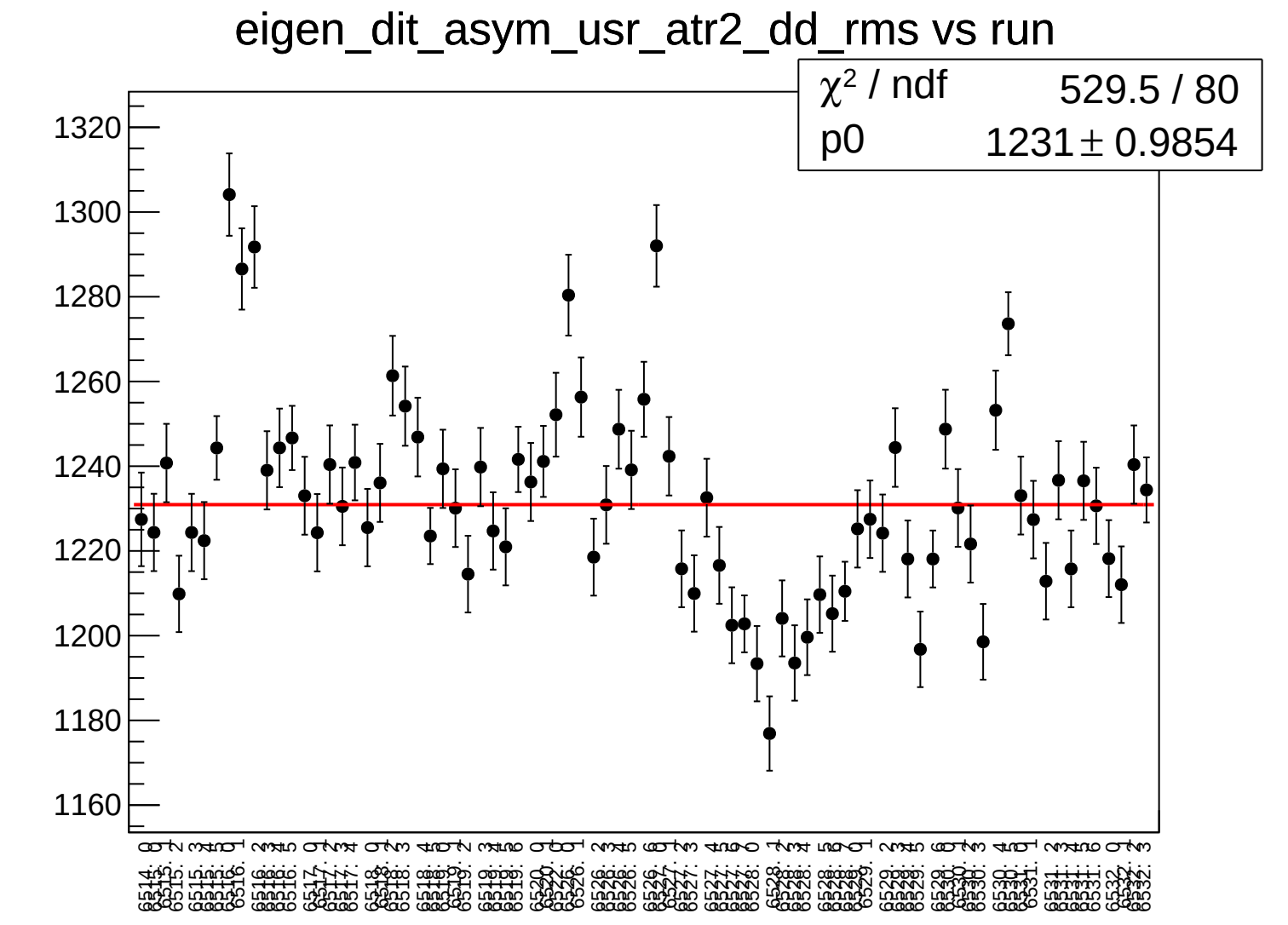

asym_usr_atr2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 88.25 / 80
p0 −2965 ± 4131
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean −223.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

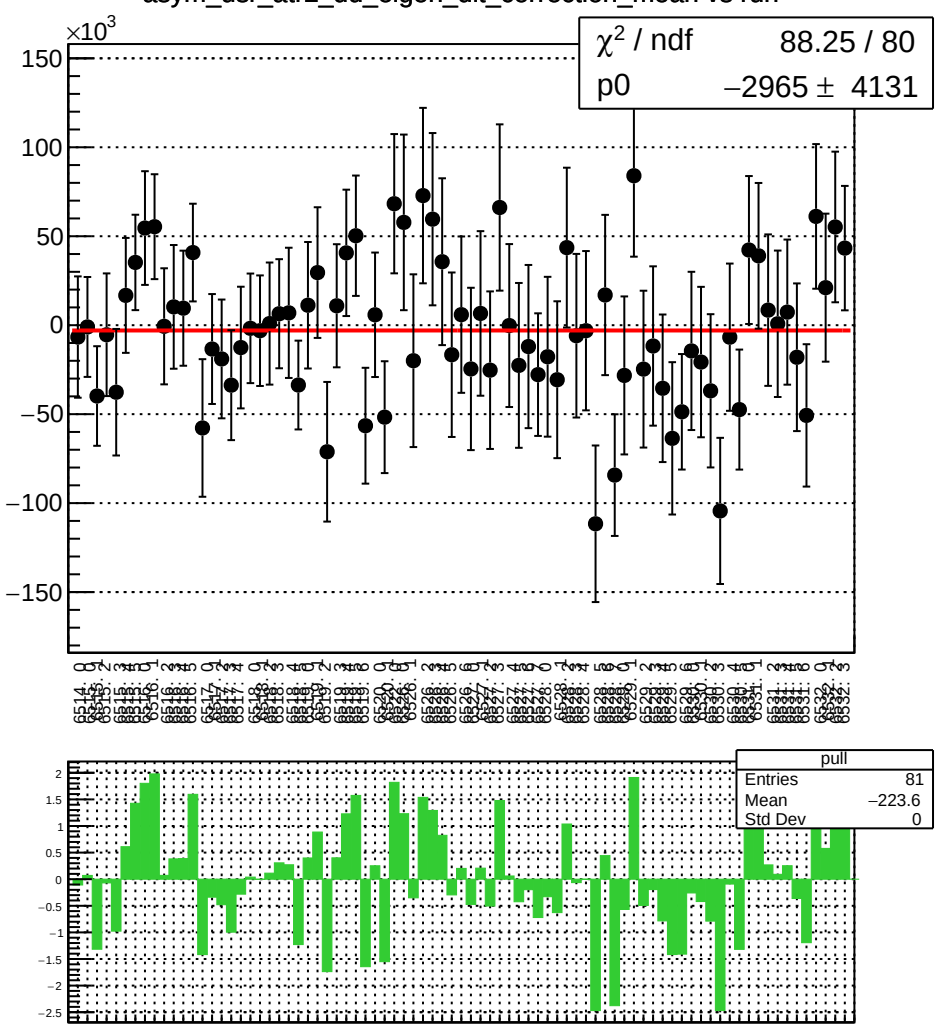

pull1D
Entries 81
Mean 0.008372
Std Dev 1.044
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

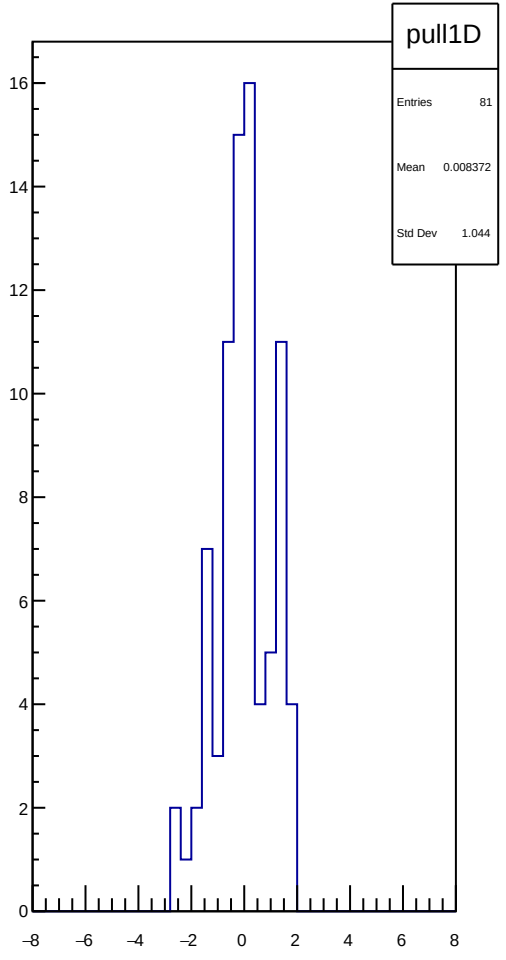

asym_usr_atr2_dd_dit_correction_rms vs run
χ² / ndf 3.728e+04 / 80
p0 3605 ± 2.921
4500
4000
3500
3000
2500

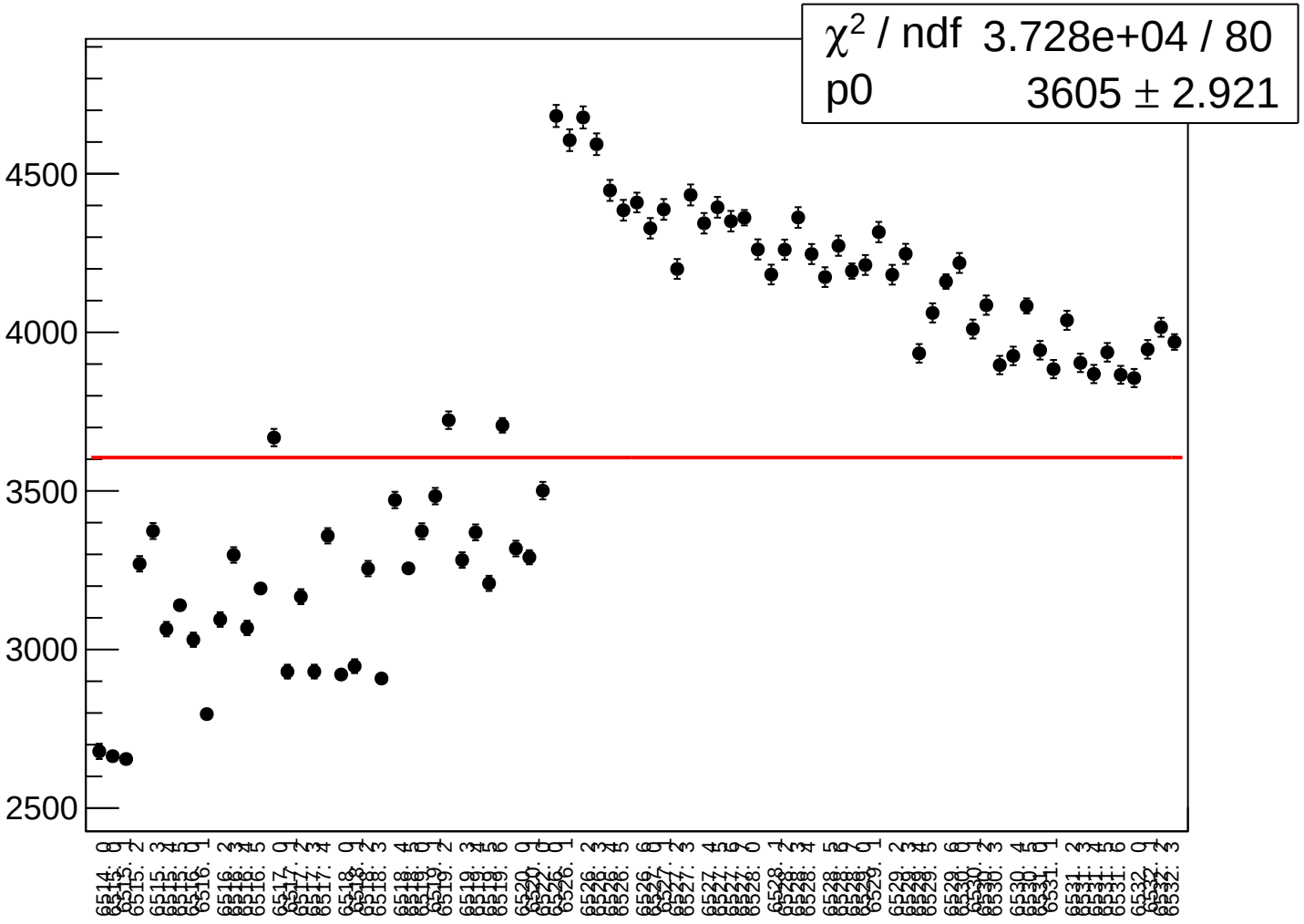

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 63.57 / 80
p0 −1358 ± 1394
pull
Entries 81
Mean −149.4
Std Dev 0

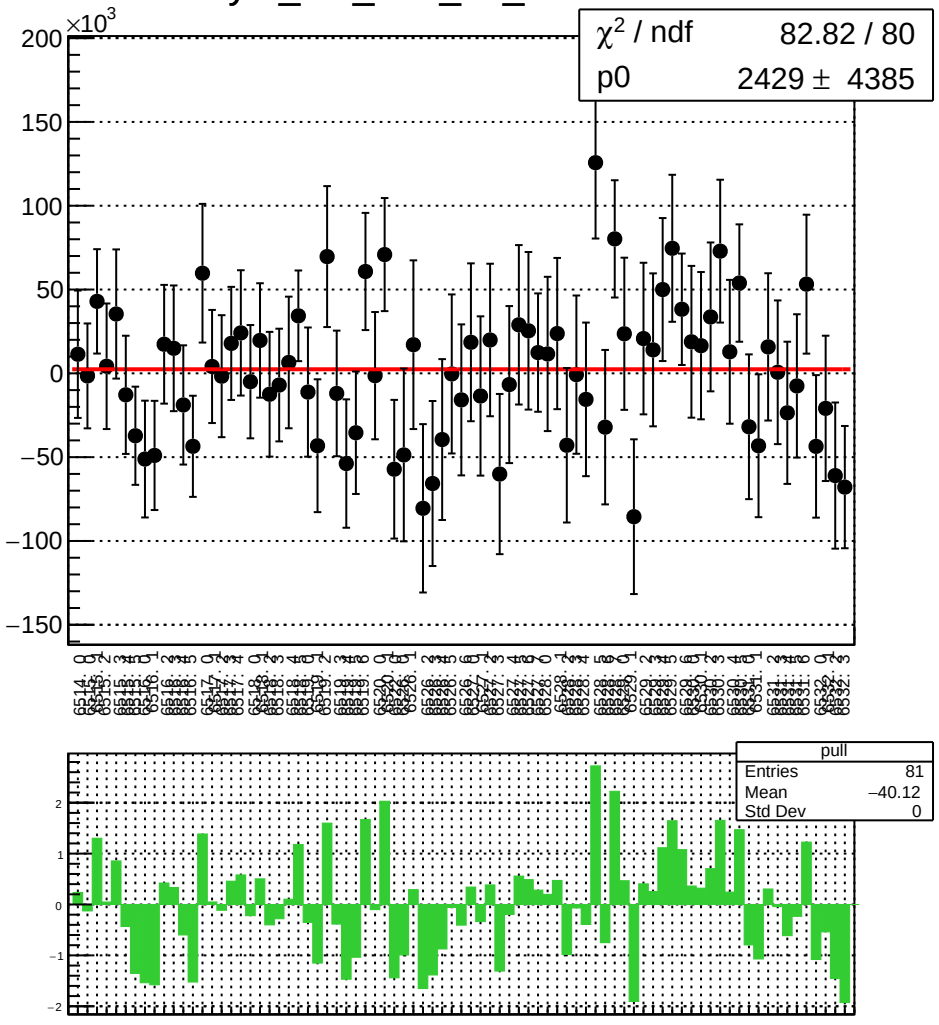

pull1D
Entries 81
Mean 0.01462
Std Dev 0.8858

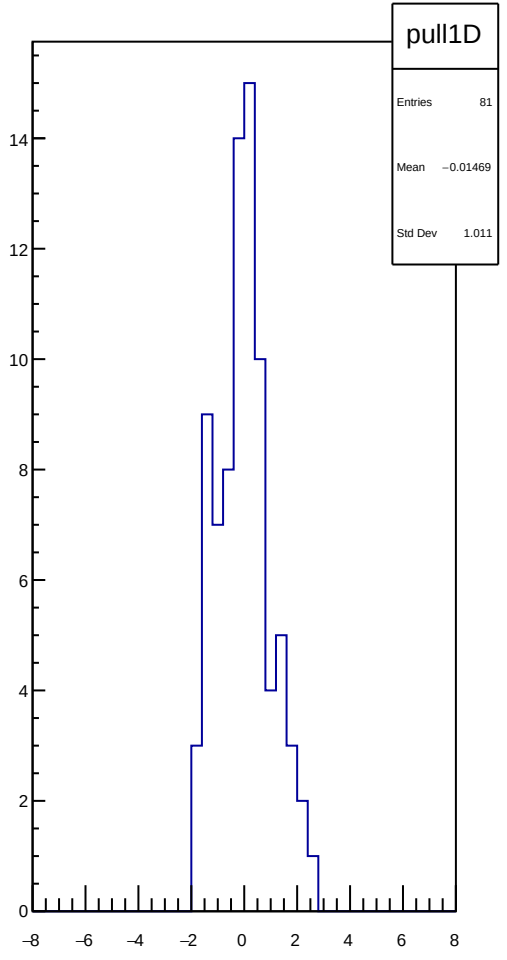

eigen_dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 529.5 / 80
p0 1231 ± 0.9854
1320
1300
1280
1260
1240
1220
1200
1180
1160

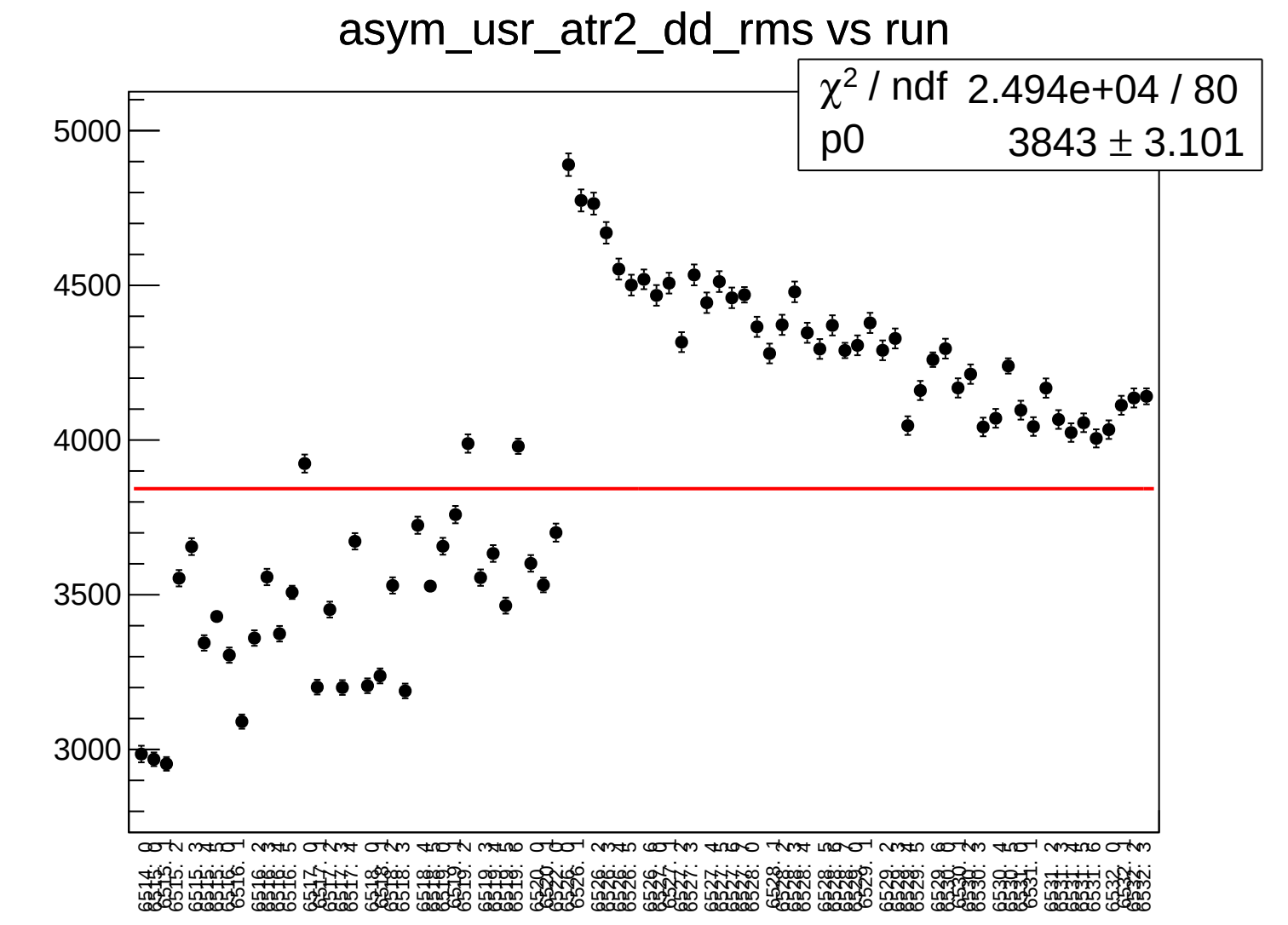

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 88.25 / 80
p0 −2965 ± 4131
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean −223.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

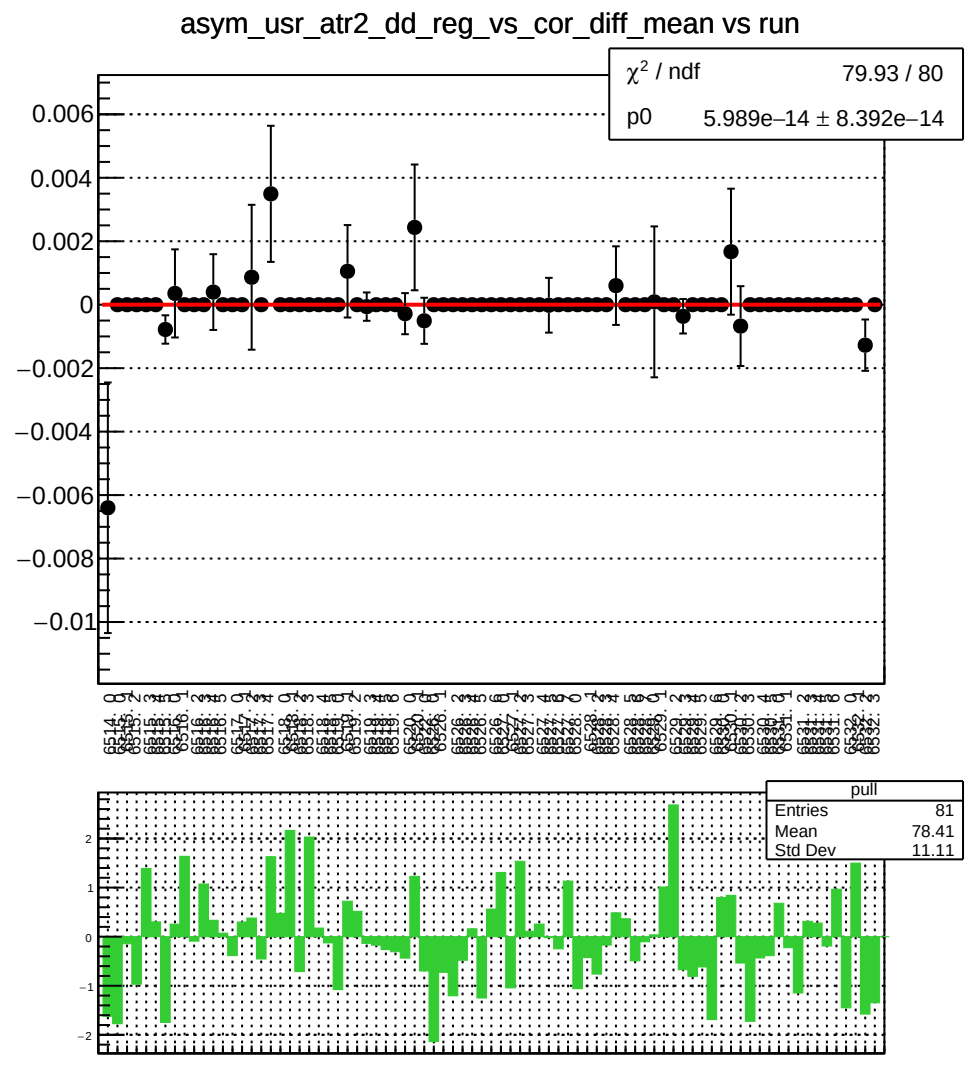

pull1D
Entries 81
Mean 0.008372
Std Dev 1.044
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

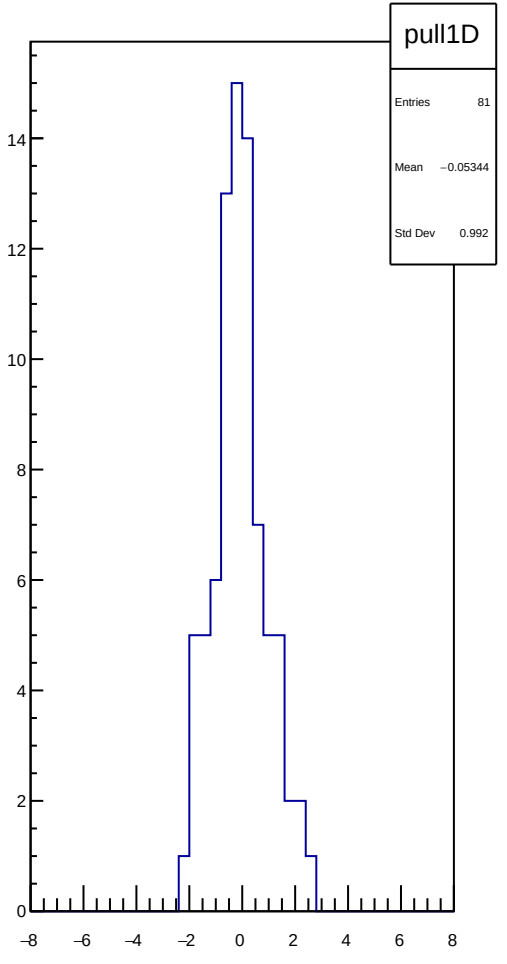

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.728e+04 / 80
p0 3605 ± 2.921
4500
4000
3500
3000
2500

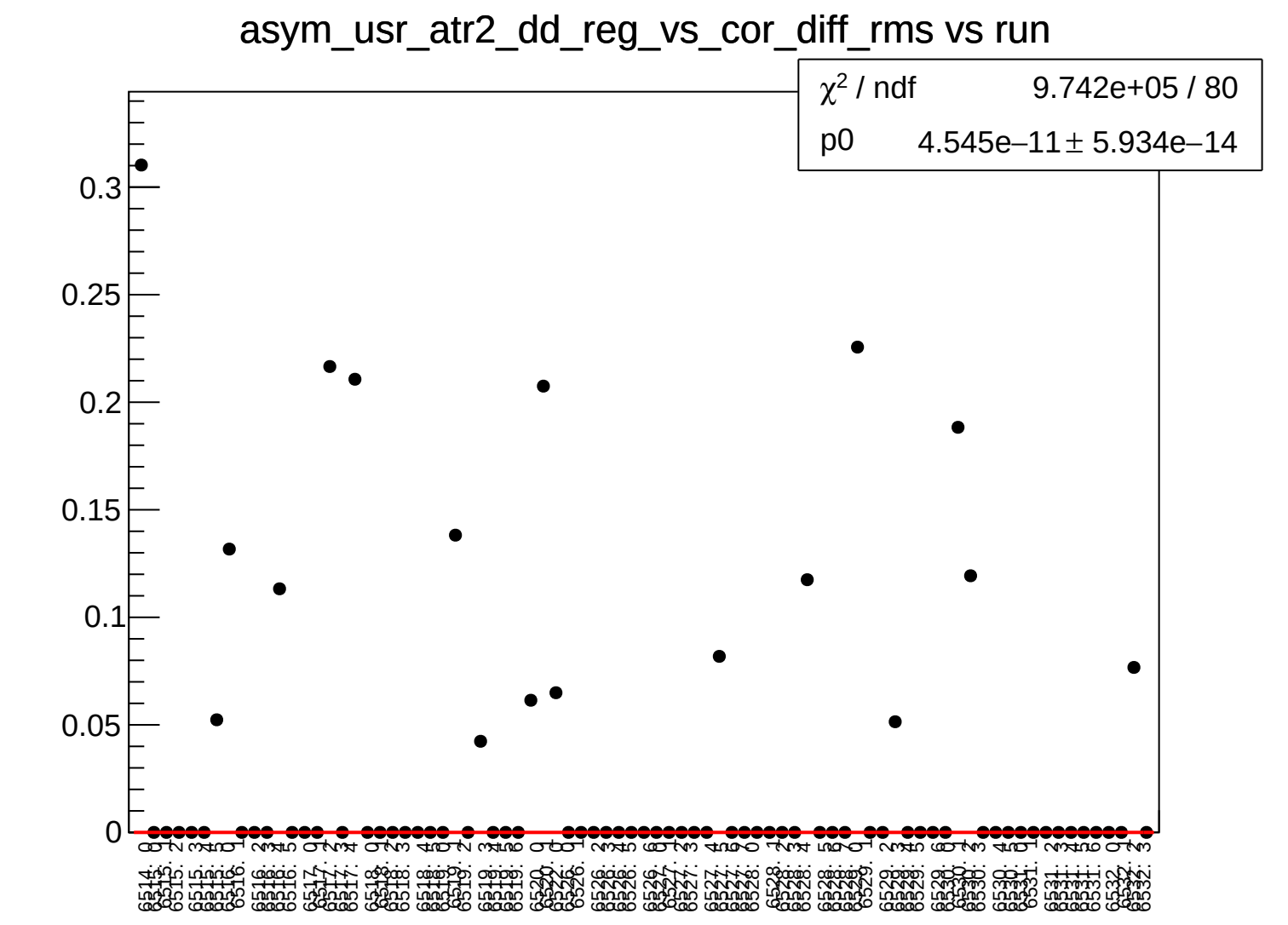

asym_usr_atr2_dd_mean vs run
×10^3
χ² / ndf 82.82 / 80
p0 2429 ± 4385
pull
Entries 81
Mean −40.12
Std Dev 0

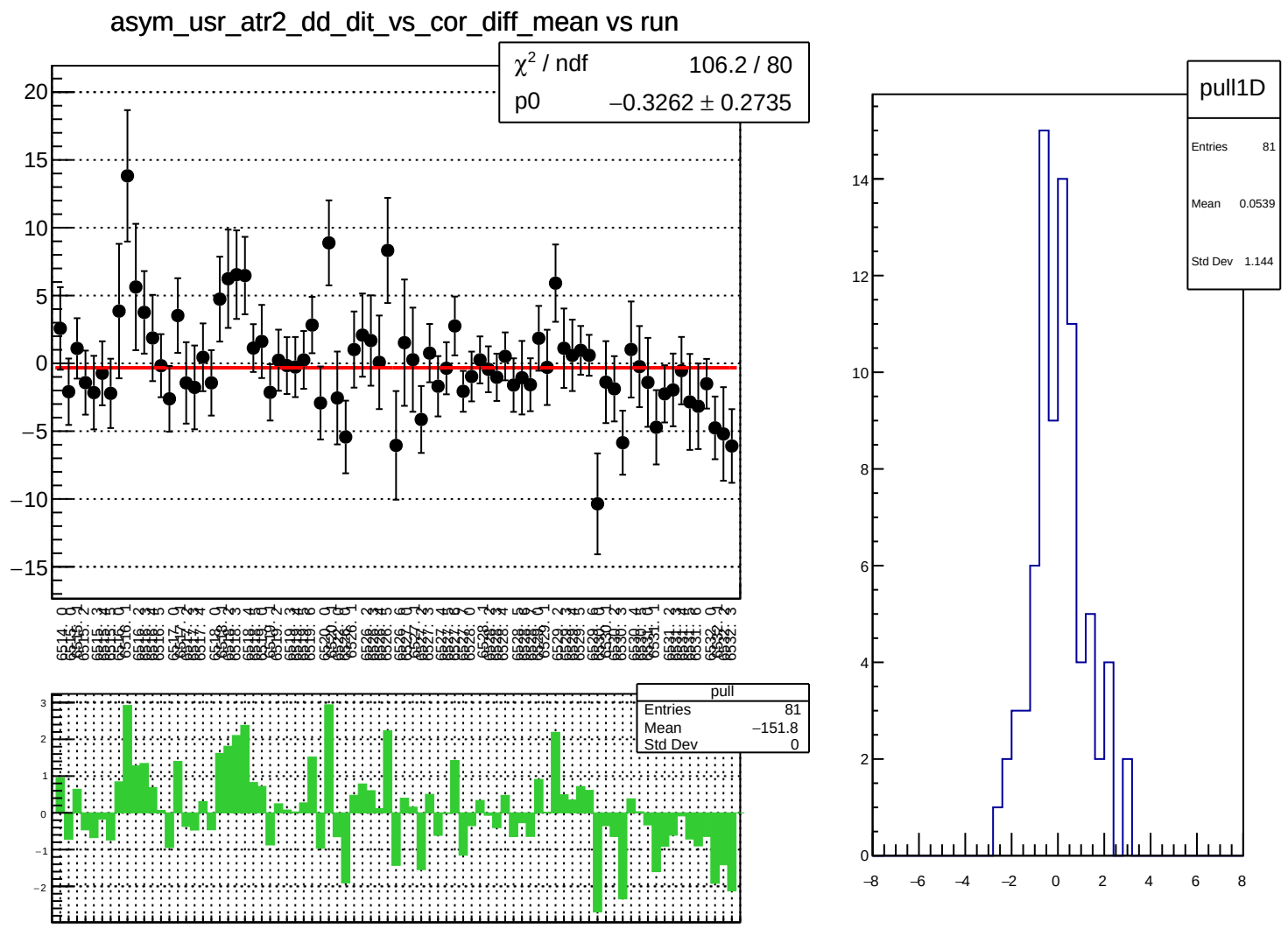

pull1D
Entries 81
Mean −0.01469
Std Dev 1.011

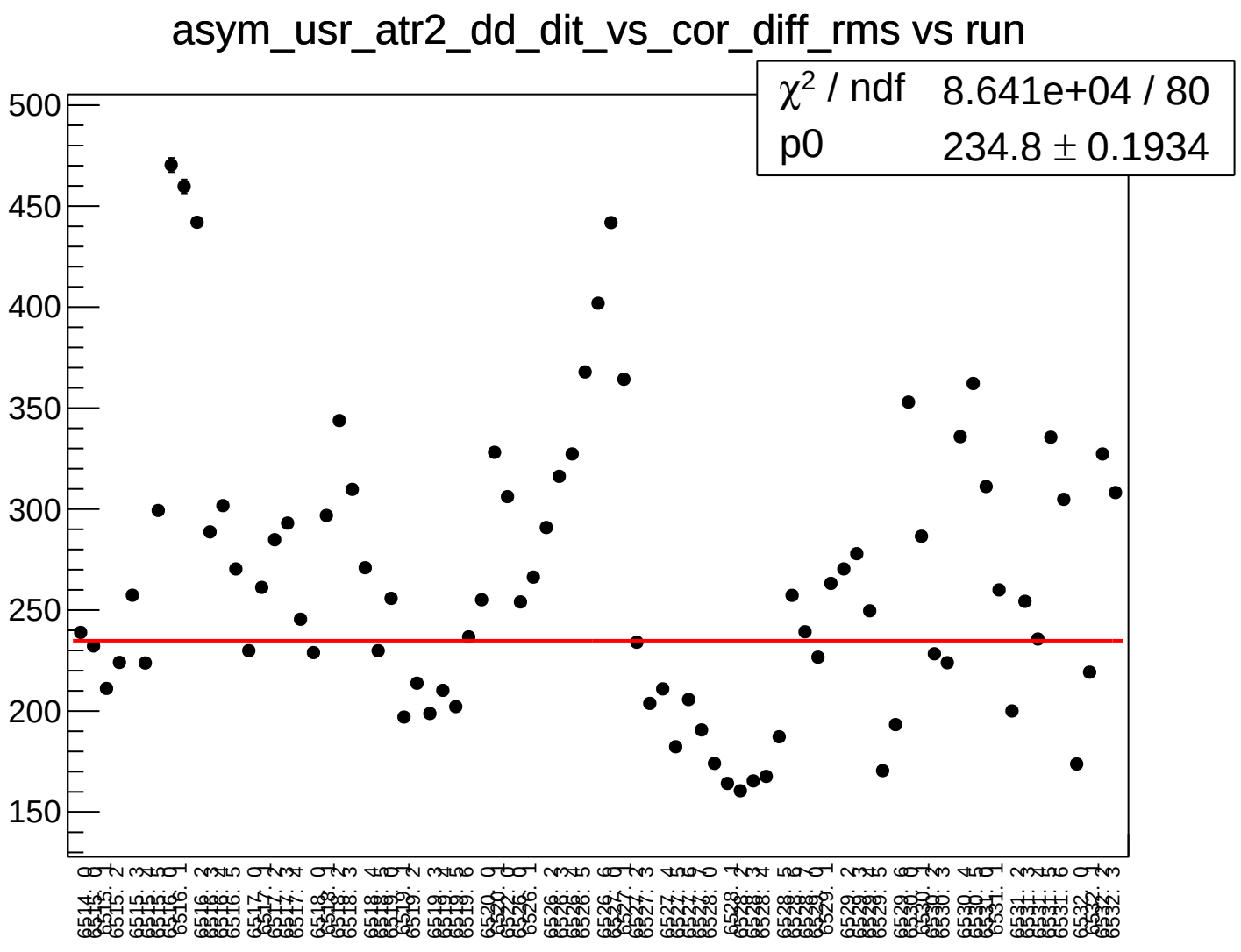

asym_usr_atr2_dd_rms vs run
χ² / ndf 2.494e+04 / 80
p0 3843 ± 3.101
5000
4500
4000
3500
3000

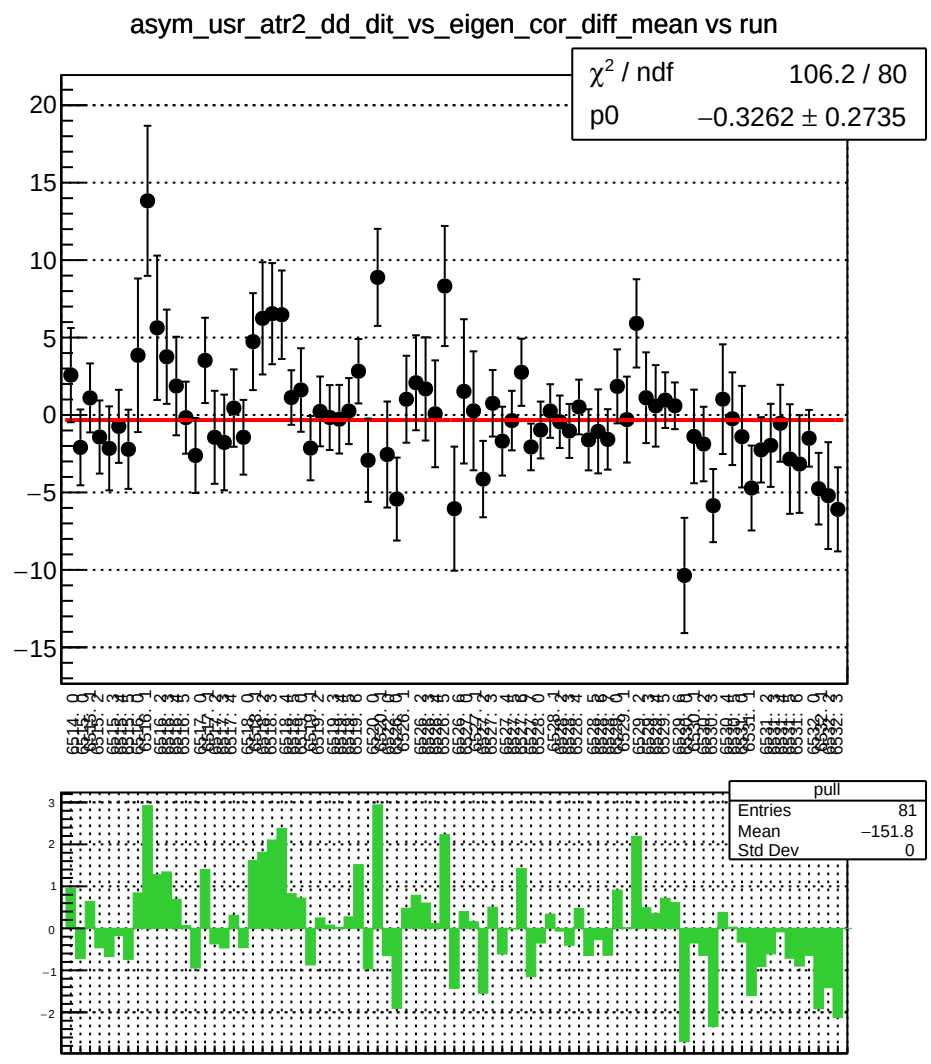

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 79.93 / 80
p0 5.989e−14 ± 8.392e−14
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
−0.01
pull
Entries 81
Mean 78.41
Std Dev 11.11
2
1
0
−1
−2

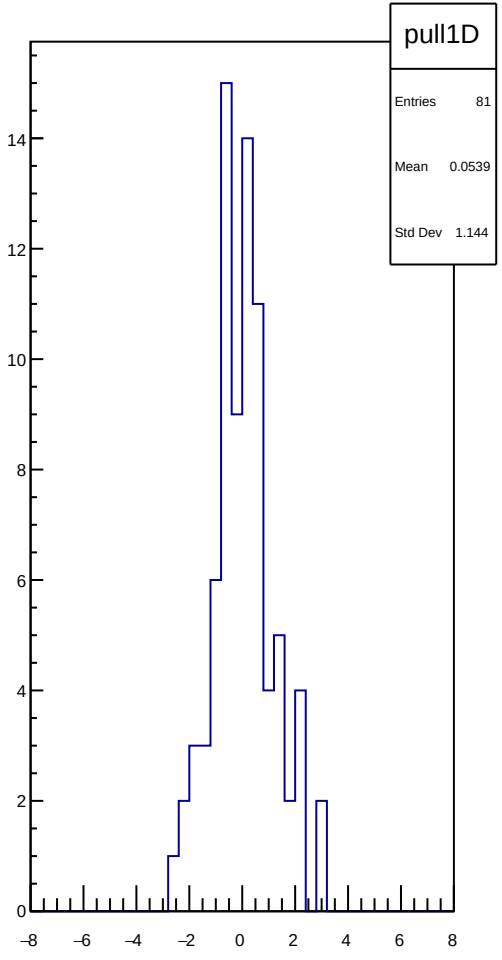

pull1D
Entries 81
Mean −0.05344
Std Dev 0.992
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

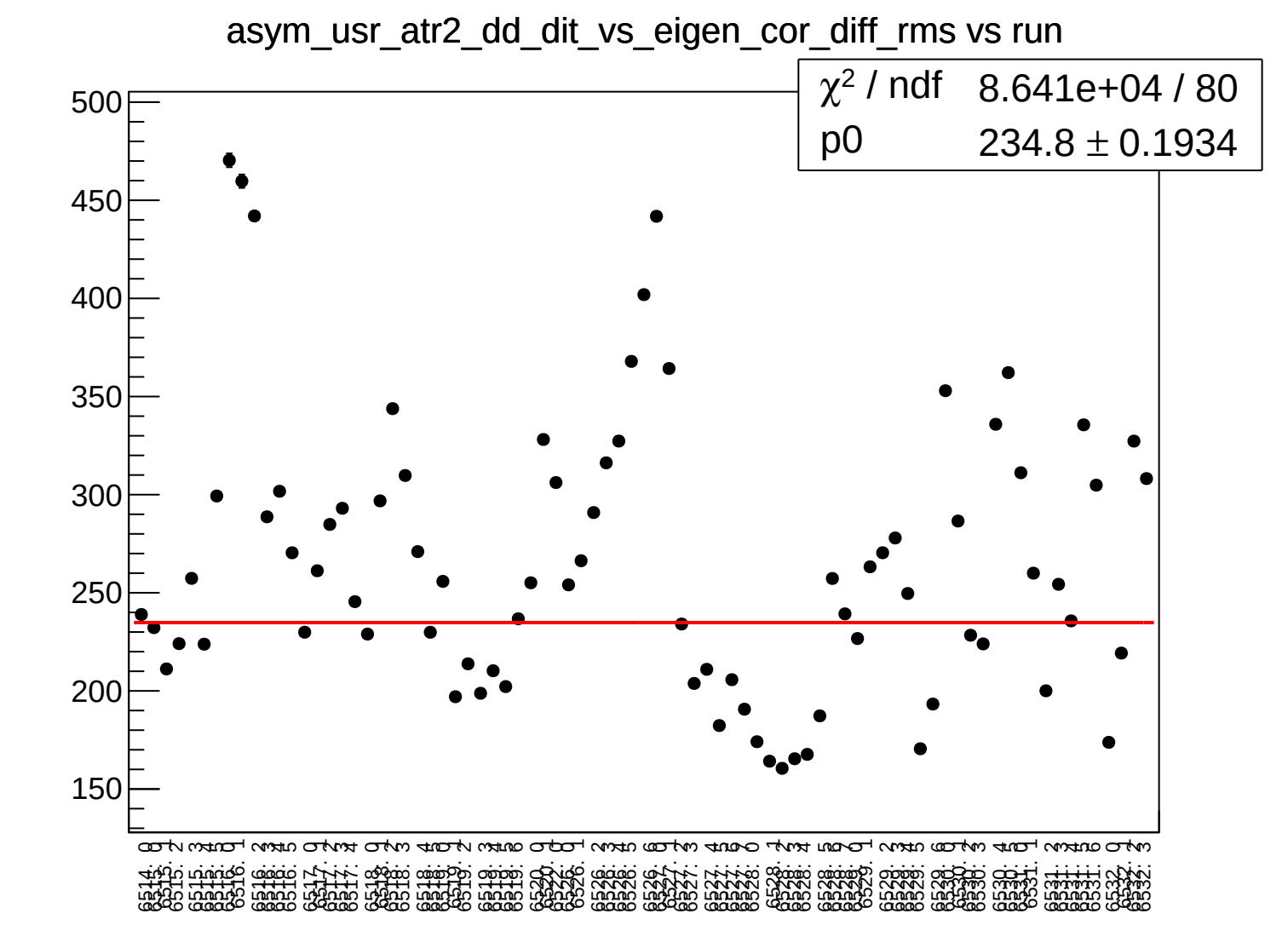

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.742e+05 / 80
p0 4.545e−11 ± 5.934e−14
0.3
0.25
0.2
0.15
0.1
0.05
0

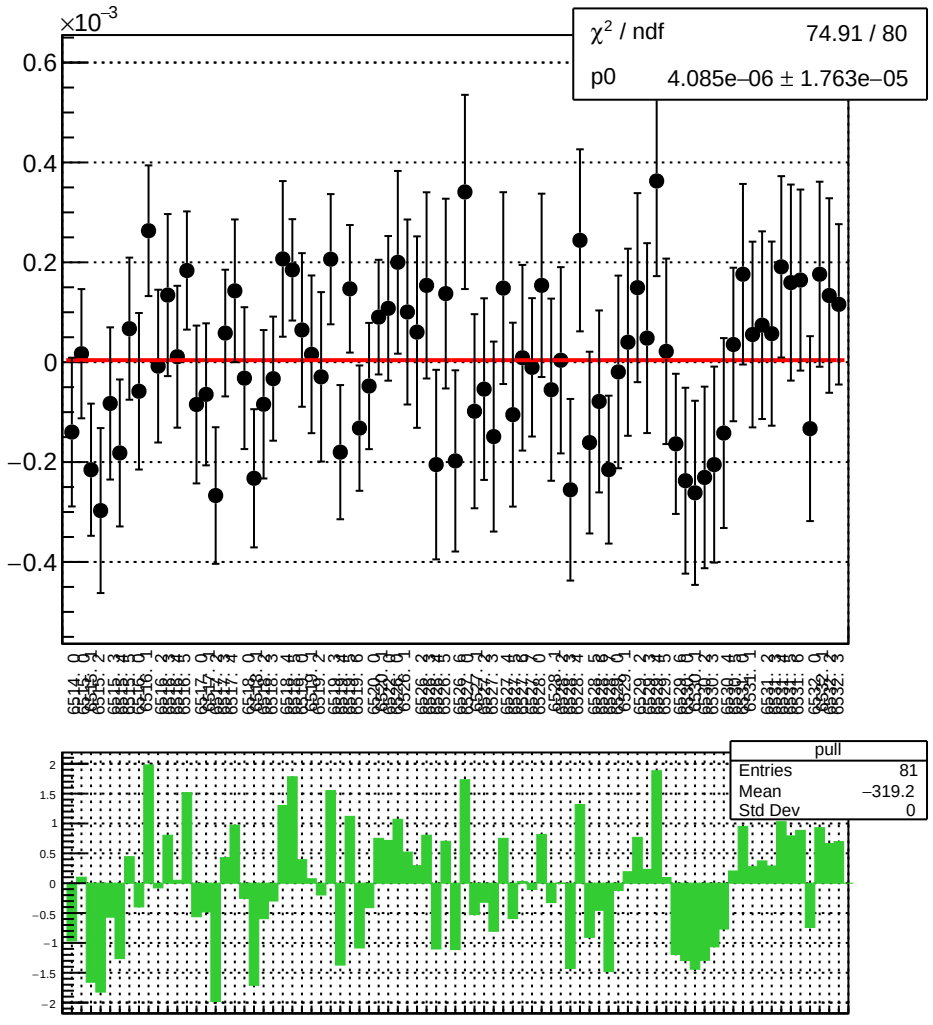

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 106.2 / 80
p0 −0.3262 ± 0.2735
pull
Entries 81
Mean −151.8
Std Dev 0
pull1D
Entries 81
Mean 0.0539
Std Dev 1.144

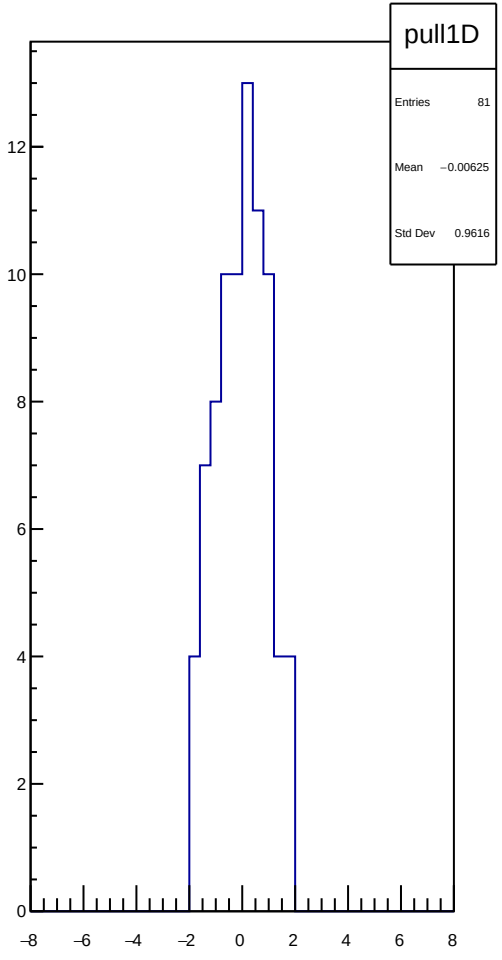

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.641e+04 / 80
p0 234.8 ± 0.1934
500
450
400
350
300
250
200
150

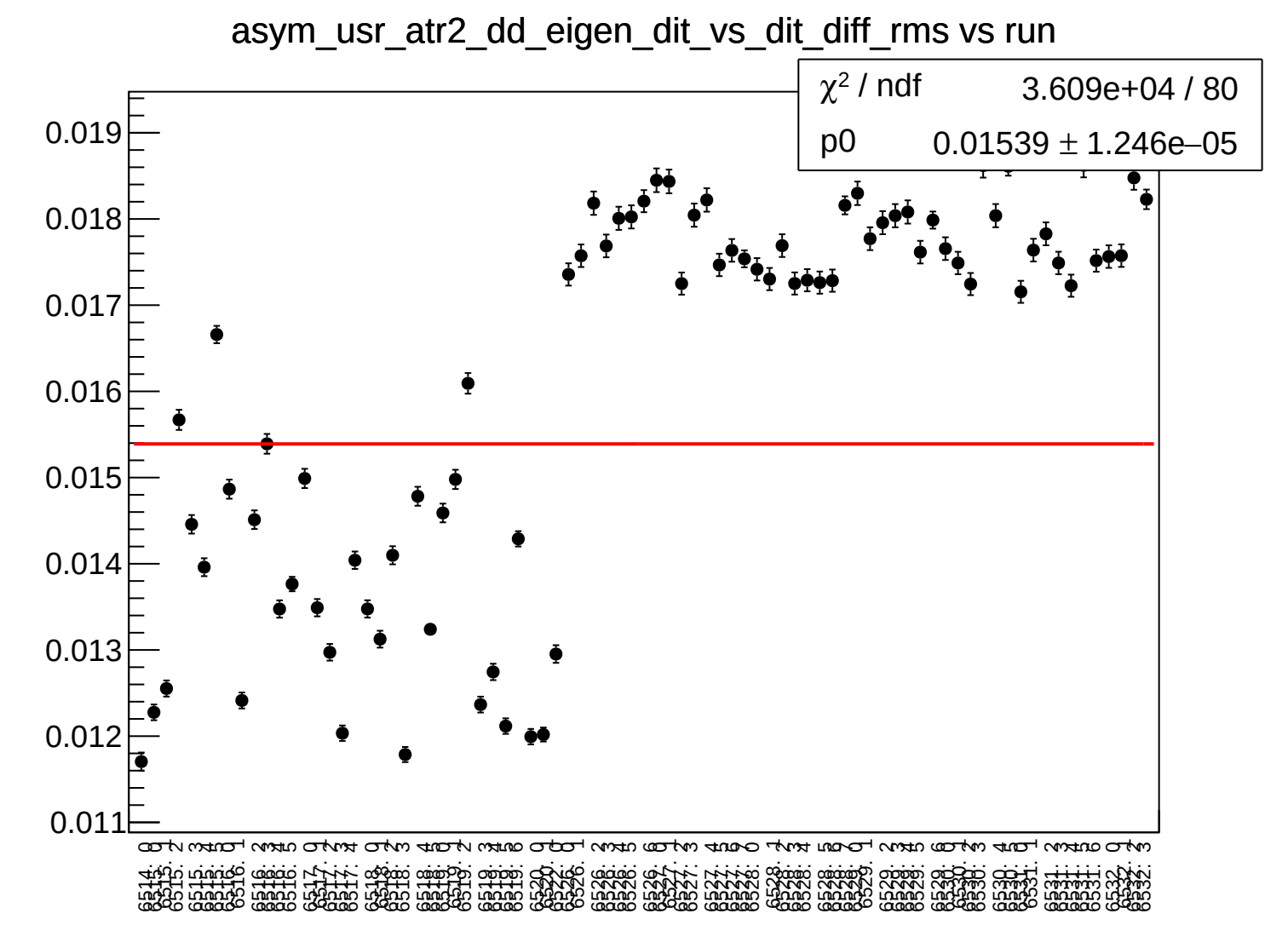

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.2 / 80
p0 −0.3262 ± 0.2735
pull
Entries 81
Mean −151.8
Std Dev 0

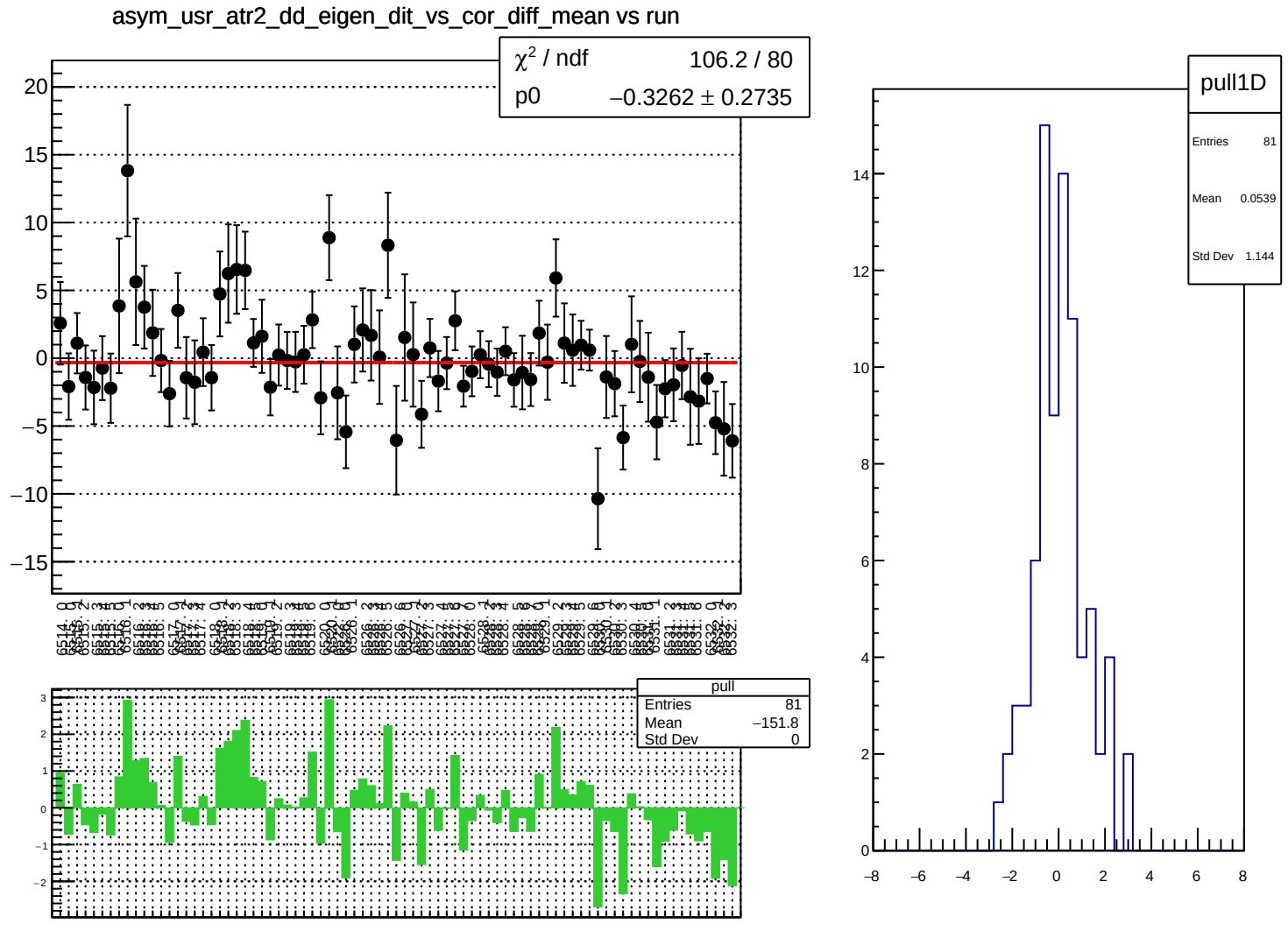

pull1D
Entries 81
Mean 0.0539
Std Dev 1.144

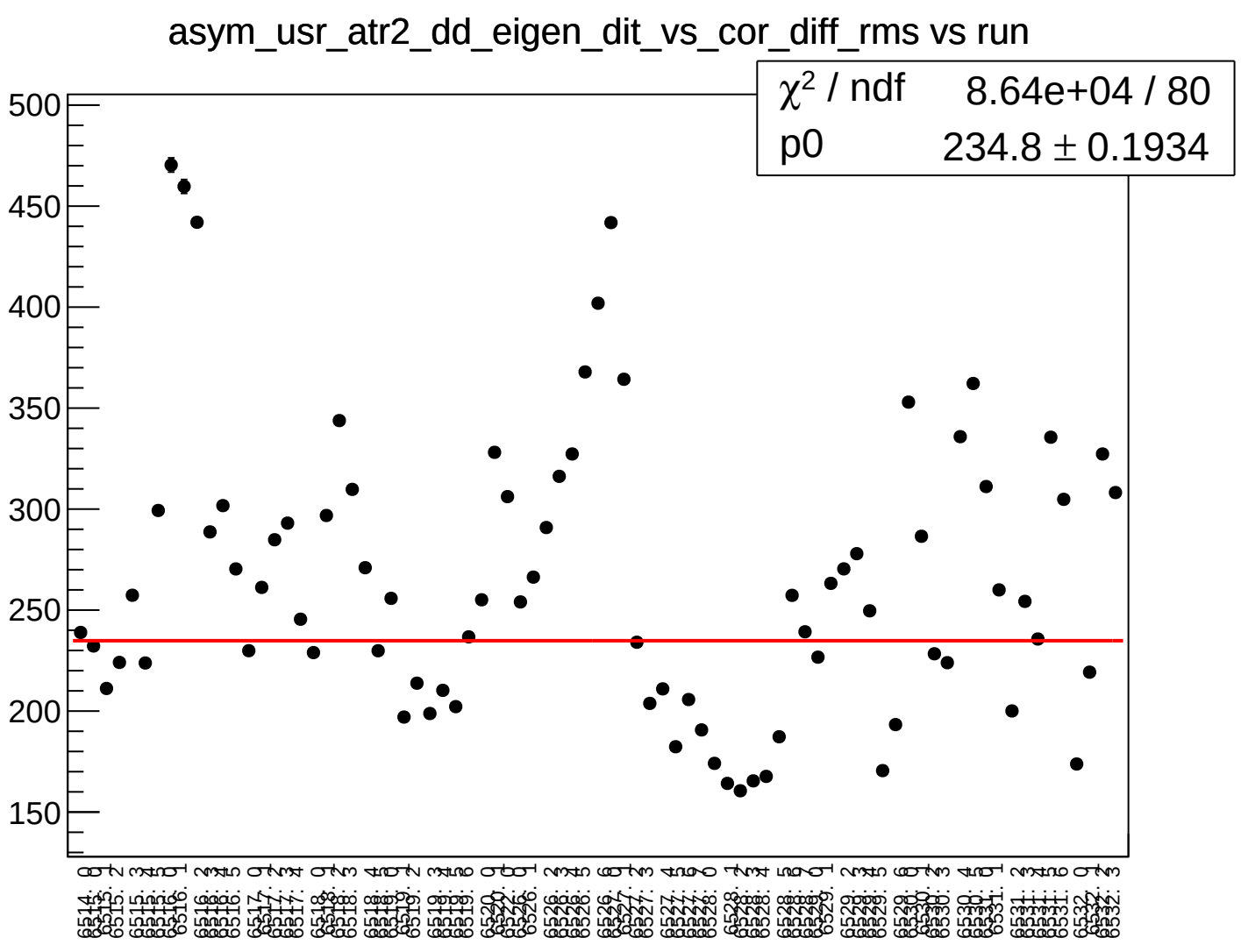

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.641e+04 / 80
p0 234.8 ± 0.1934
500
450
400
350
300
250
200
150

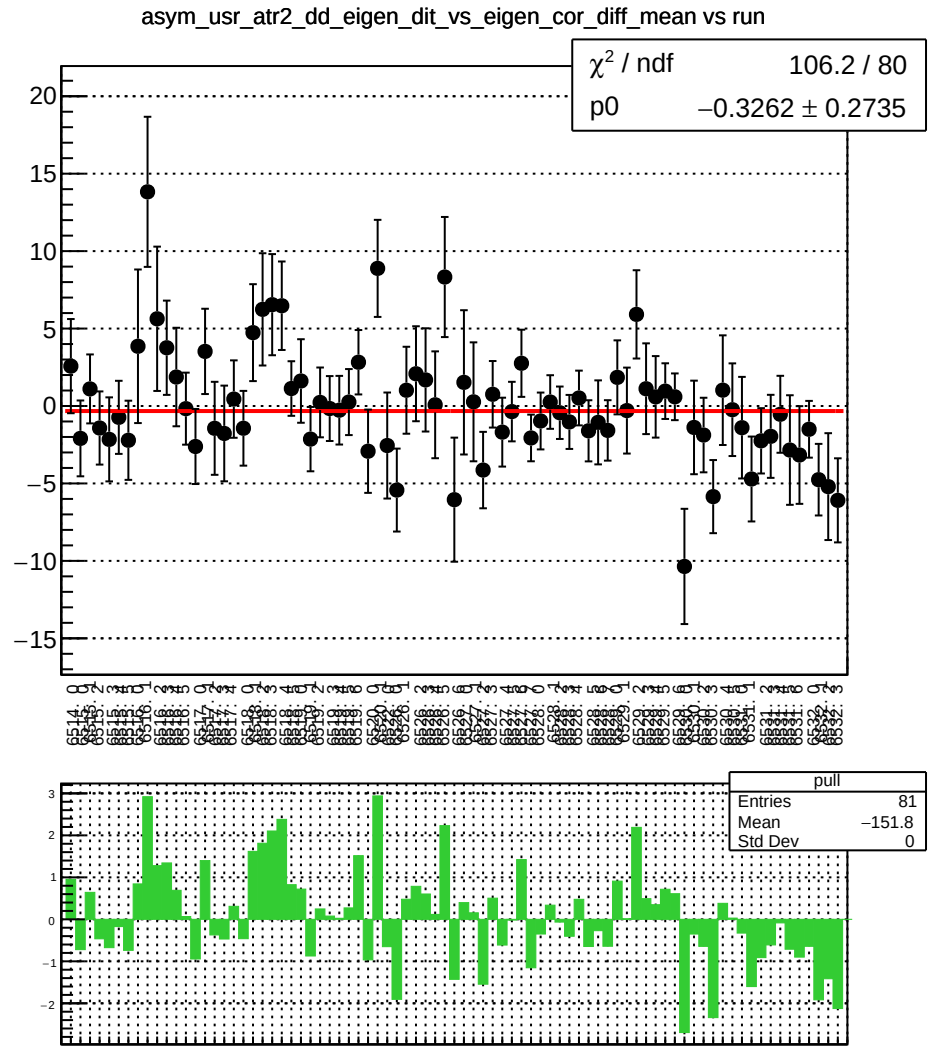

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.91 / 80
p0 4.085e−06 ± 1.763e−05
pull
Entries 81
Mean −319.2
Std Dev 0

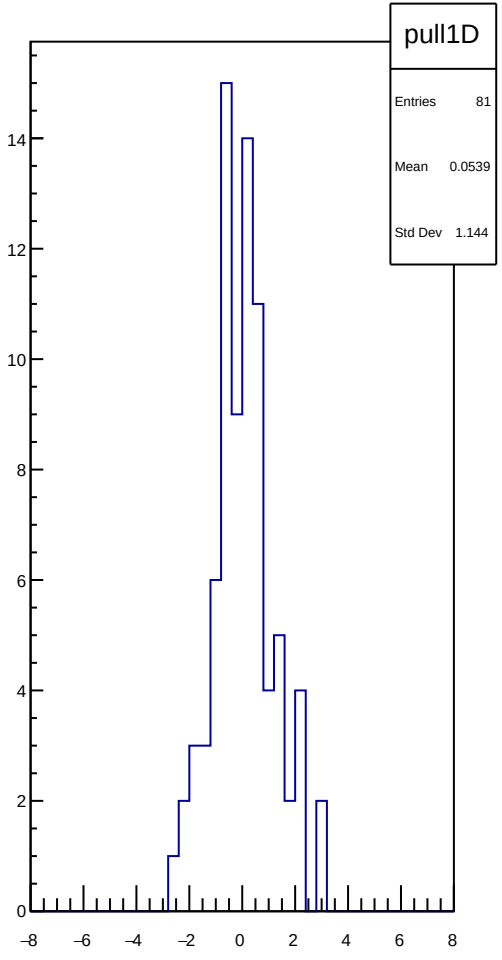

pull1D
Entries 81
Mean −0.00625
Std Dev 0.9616

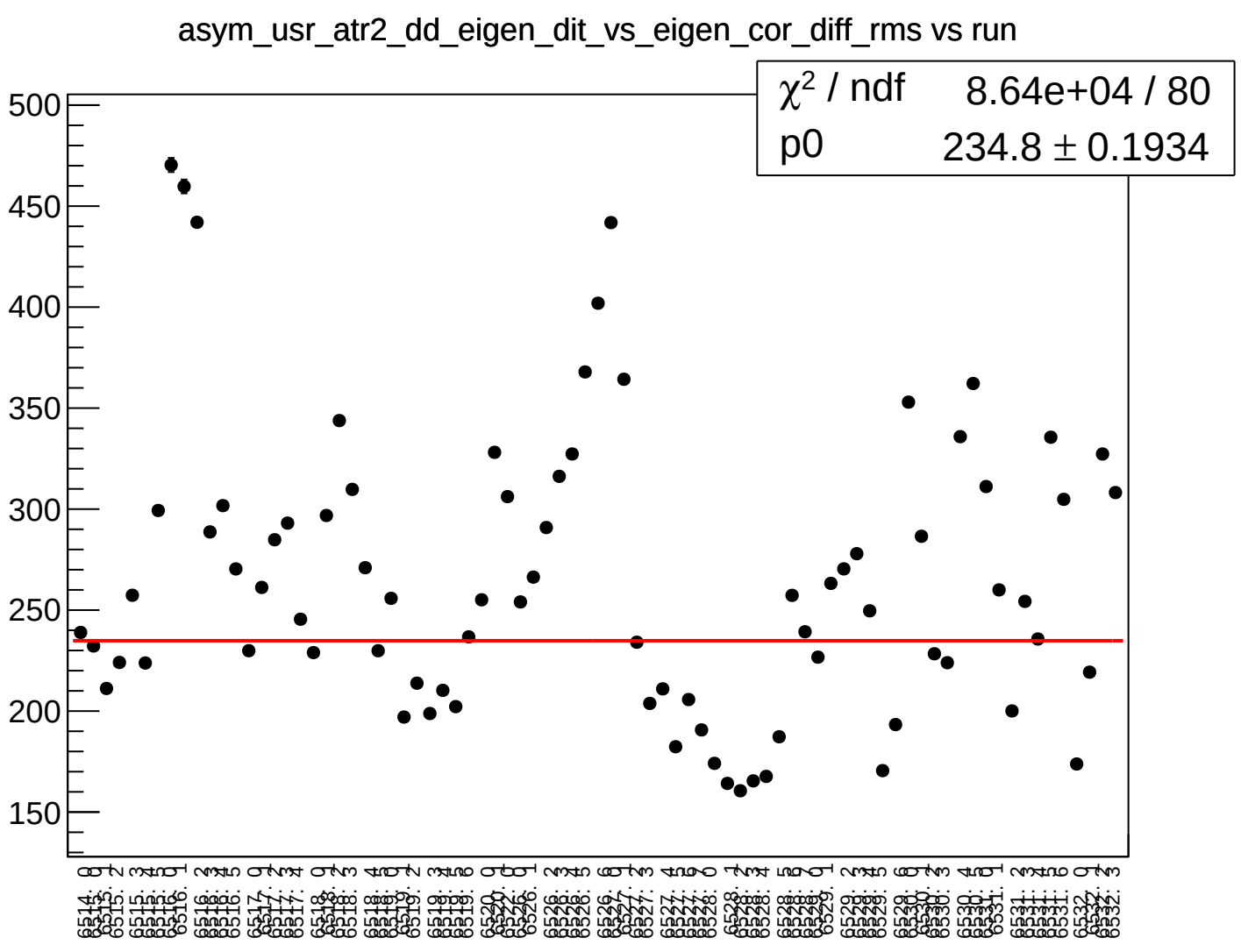

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.609e+04 / 80
p0 0.01539 ± 1.246e−05
0.019
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011

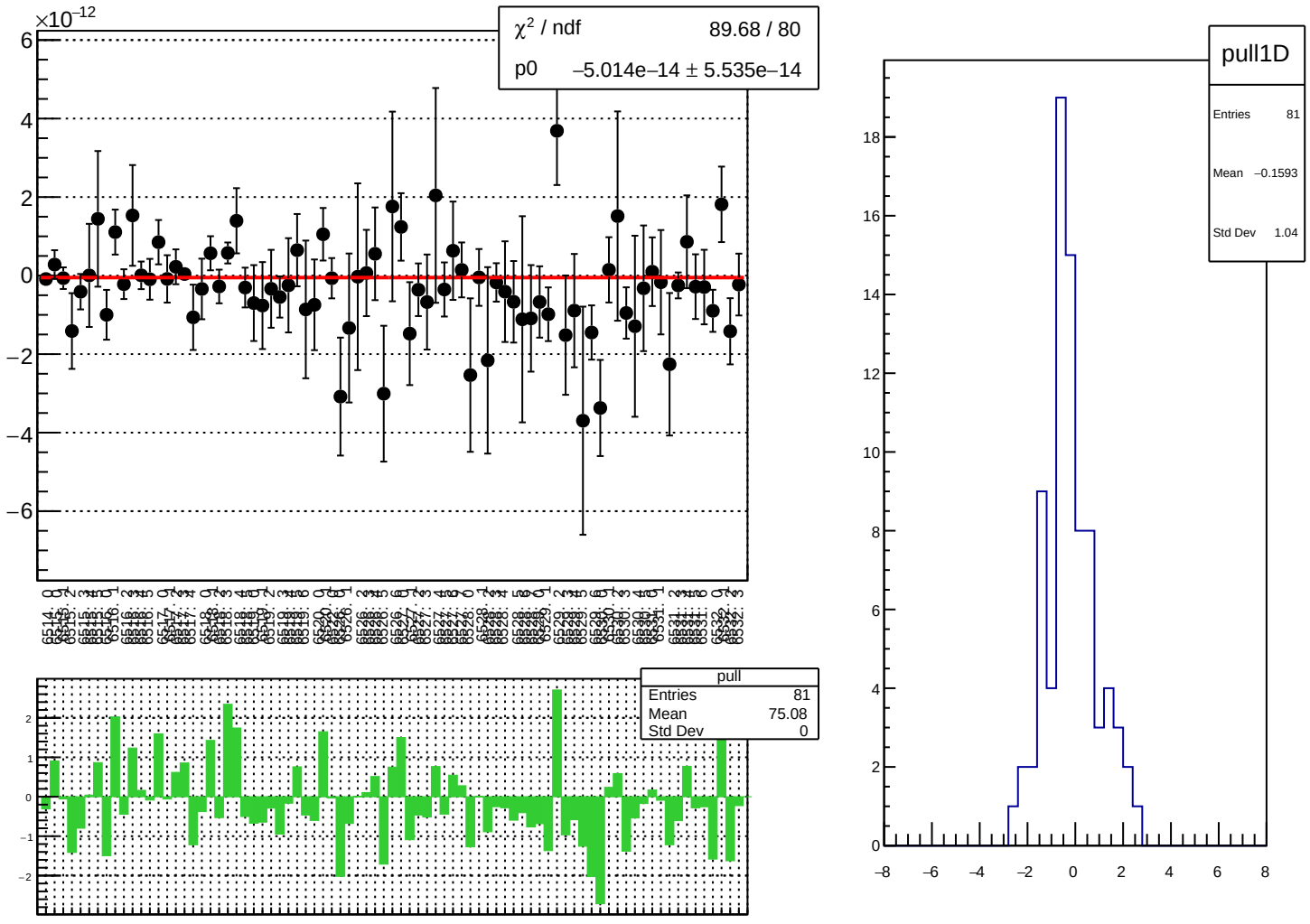

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 106.2 / 80
p0 −0.3262 ± 0.2735
pull
Entries 81
Mean −151.8
Std Dev 0
pull1D
Entries 81
Mean 0.0539
Std Dev 1.144

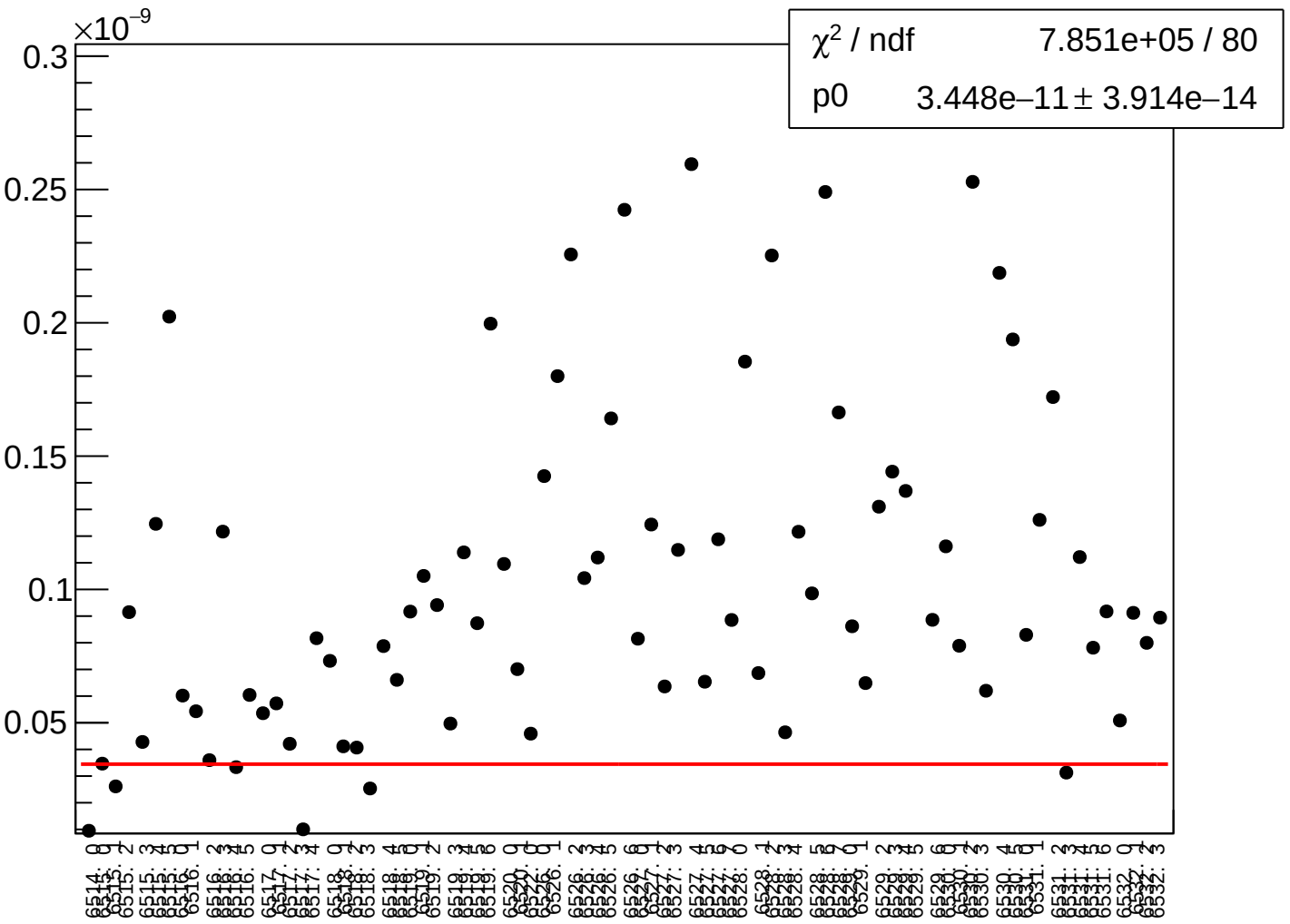

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.64e+04 / 80
p0 234.8 ± 0.1934
500
450
400
350
300
250
200
150

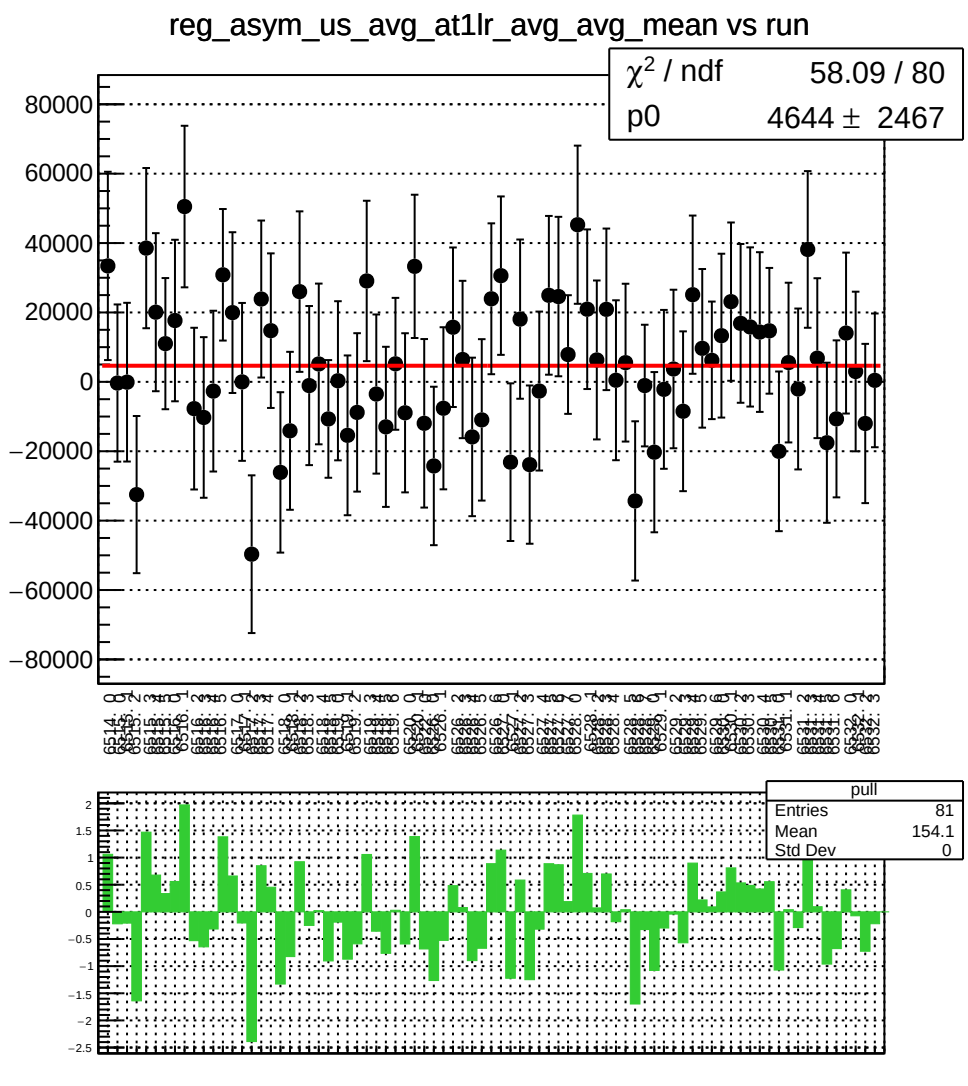

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.2 / 80
p0 −0.3262 ± 0.2735
pull
Entries 81
Mean −151.8
Std Dev 0

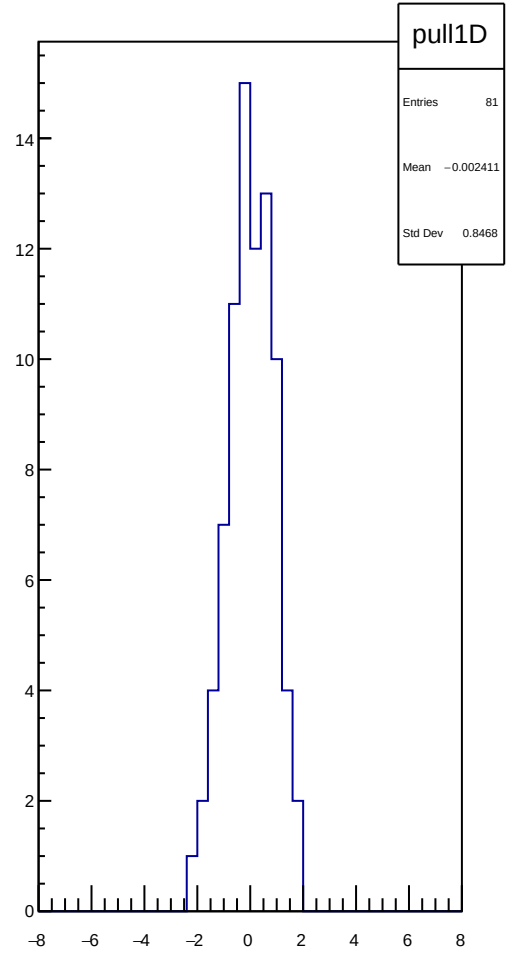

pull1D
Entries 81
Mean 0.0539
Std Dev 1.144

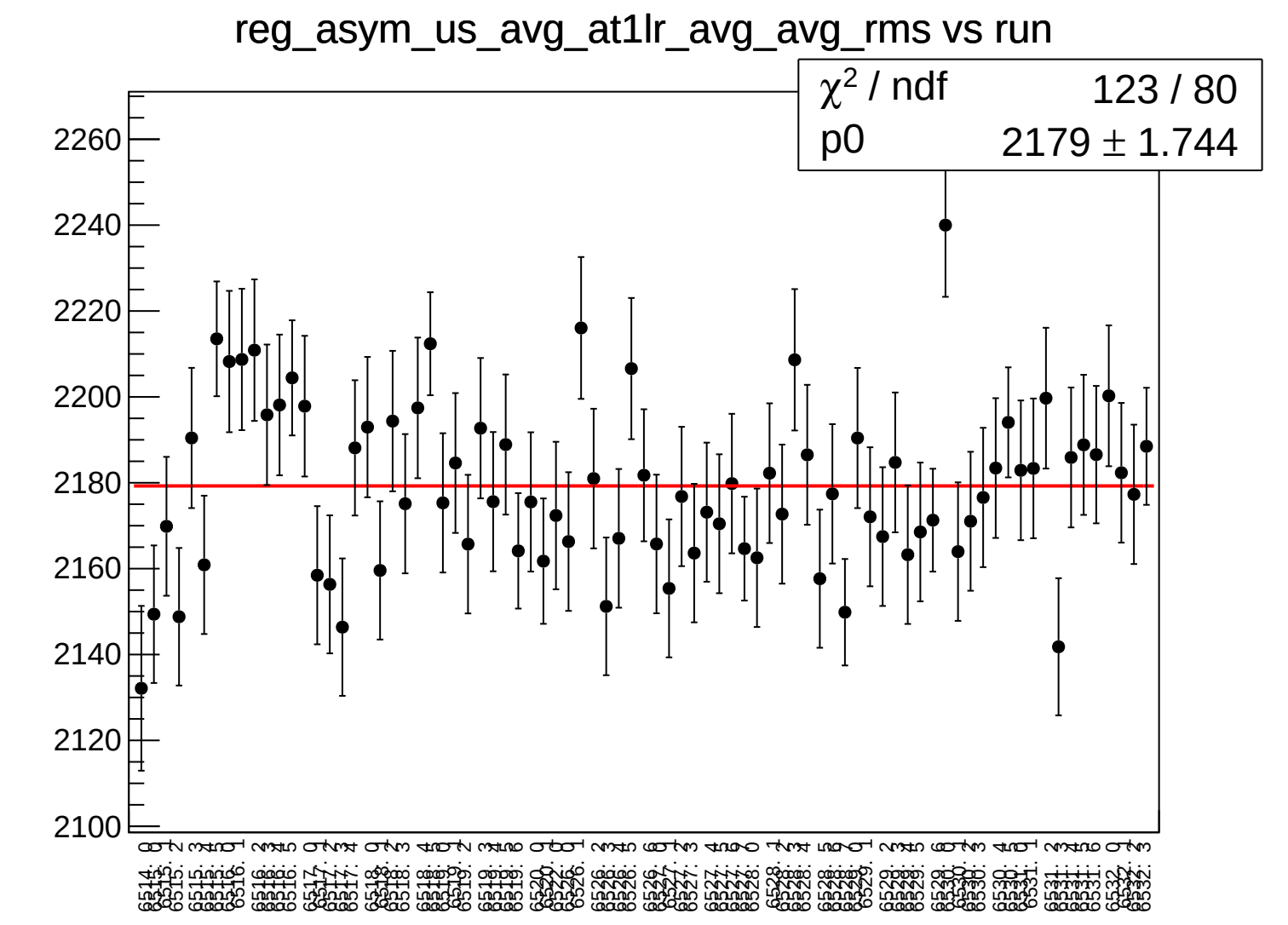

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.64e+04 / 80
p0 234.8 ± 0.1934
500
450
400
350
300
250
200
150

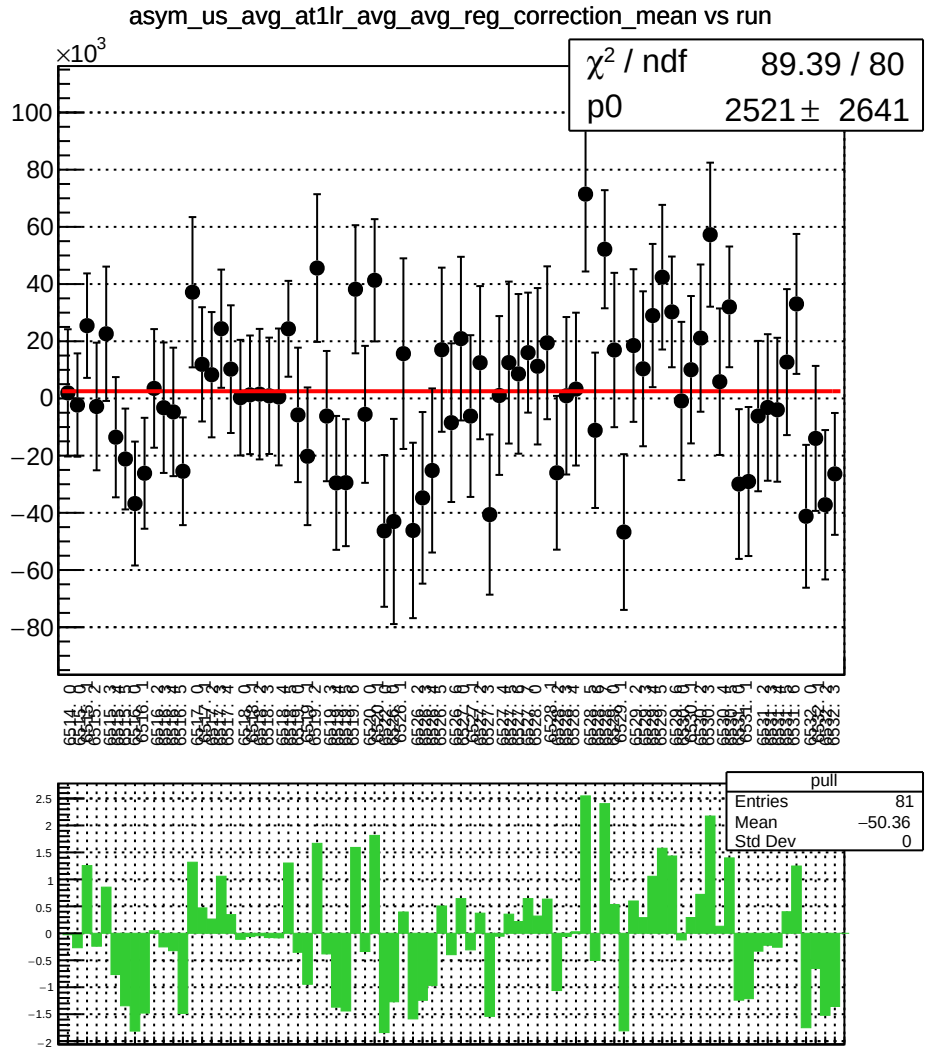

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.68 / 80
p0 −5.014e−14 ± 5.535e−14
pull
Entries 81
Mean 75.08
Std Dev 0
pull1D
Entries 81
Mean −0.1593
Std Dev 1.04

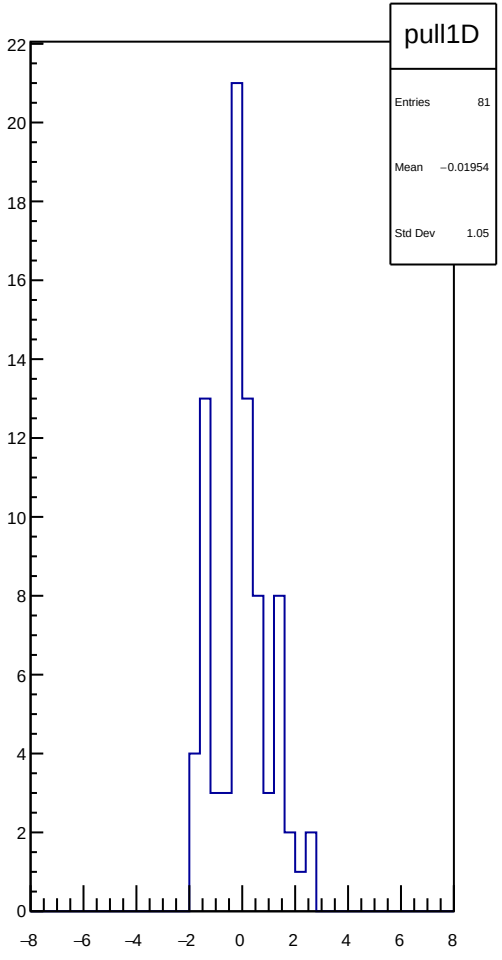

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.851e+05 / 80
p0 3.448e−11 ± 3.914e−14
0.3
0.25
0.2
0.15
0.1
0.05

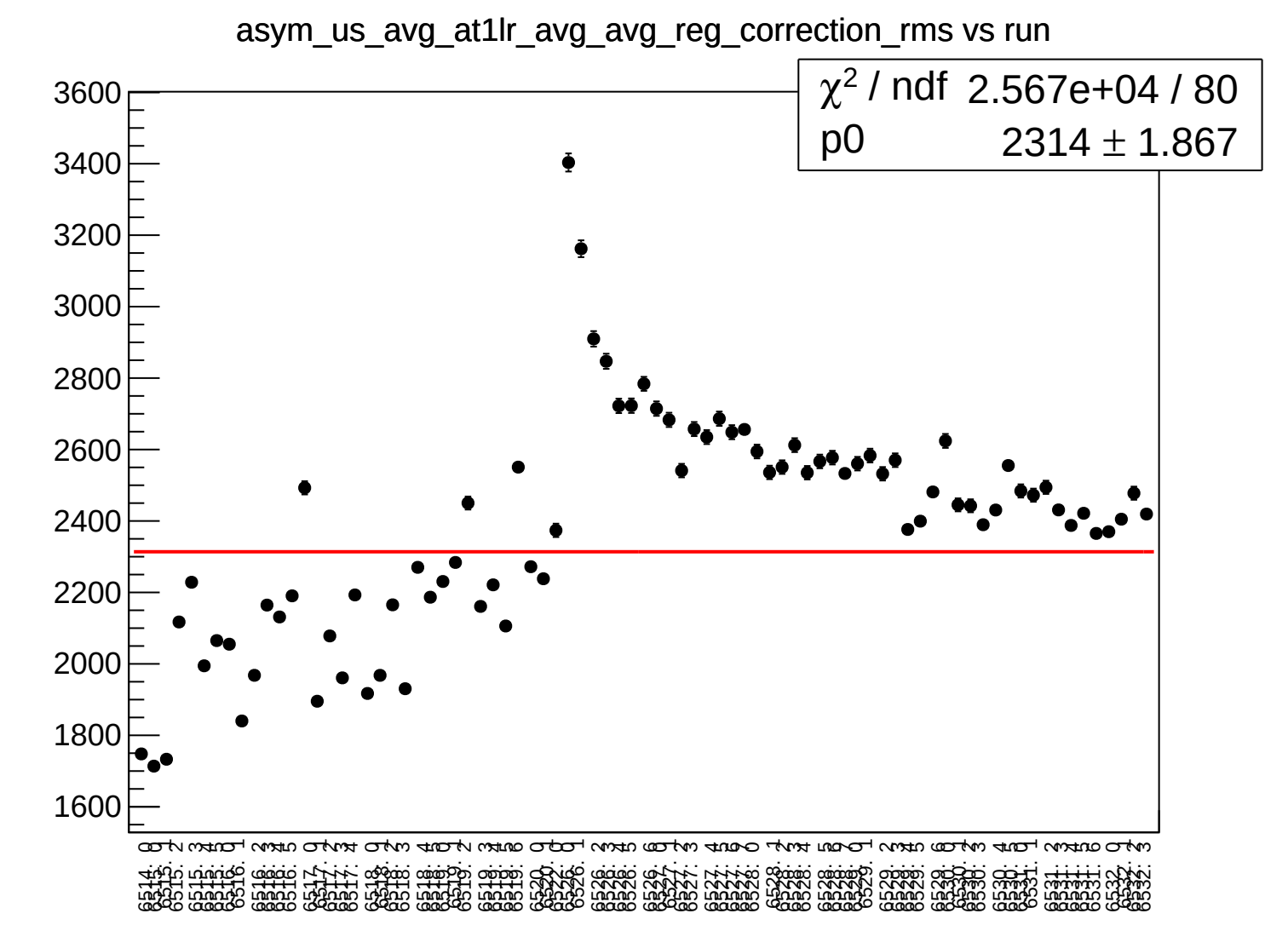

reg_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 58.09 / 80
p0 4644 ± 2467
pull
Entries 81
Mean 154.1
Std Dev 0

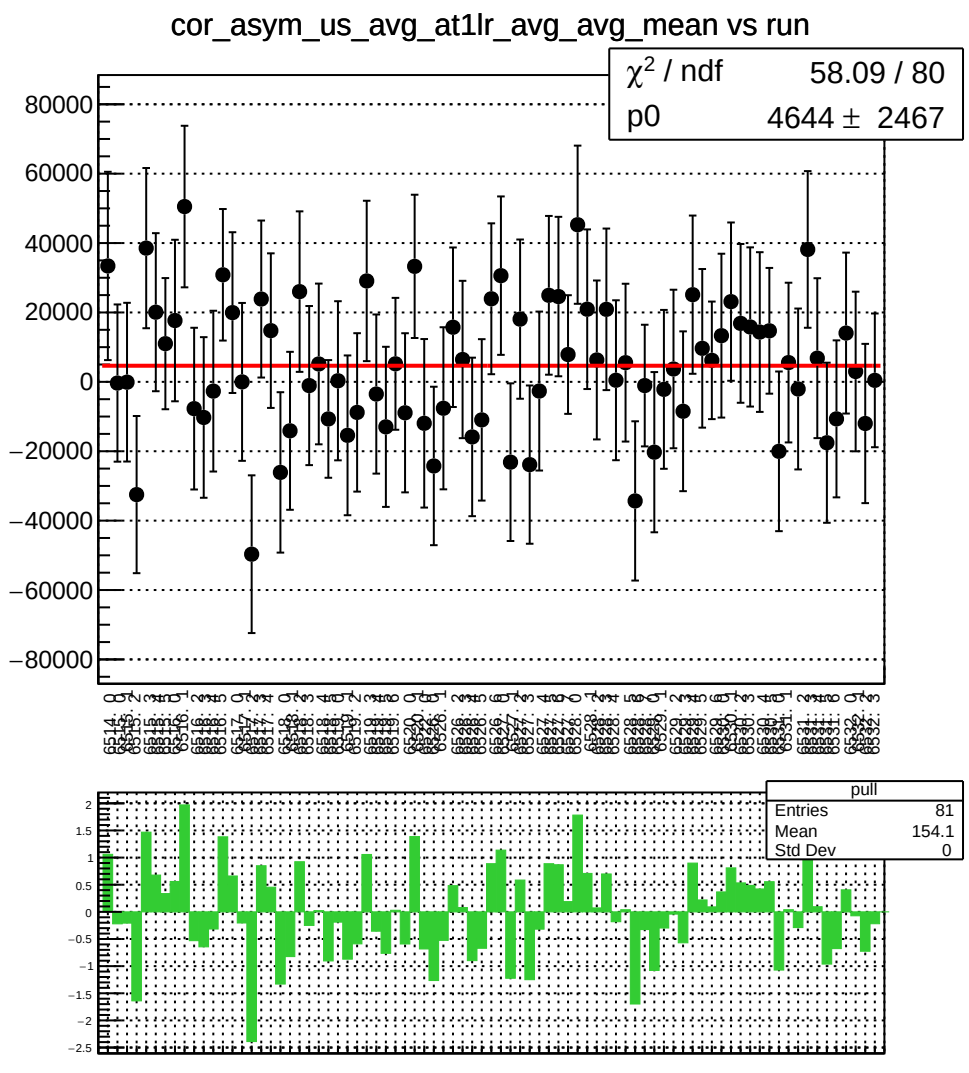

pull1D
Entries 81
Mean −0.002411
Std Dev 0.8468

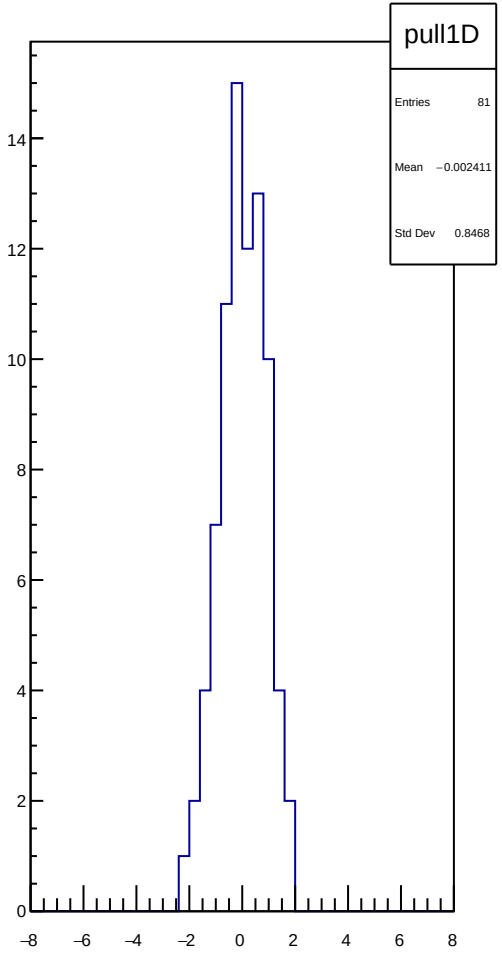

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 123 / 80
p0 2179 ± 1.744
2260
2240
2220
2200
2180
2160
2140
2120
2100

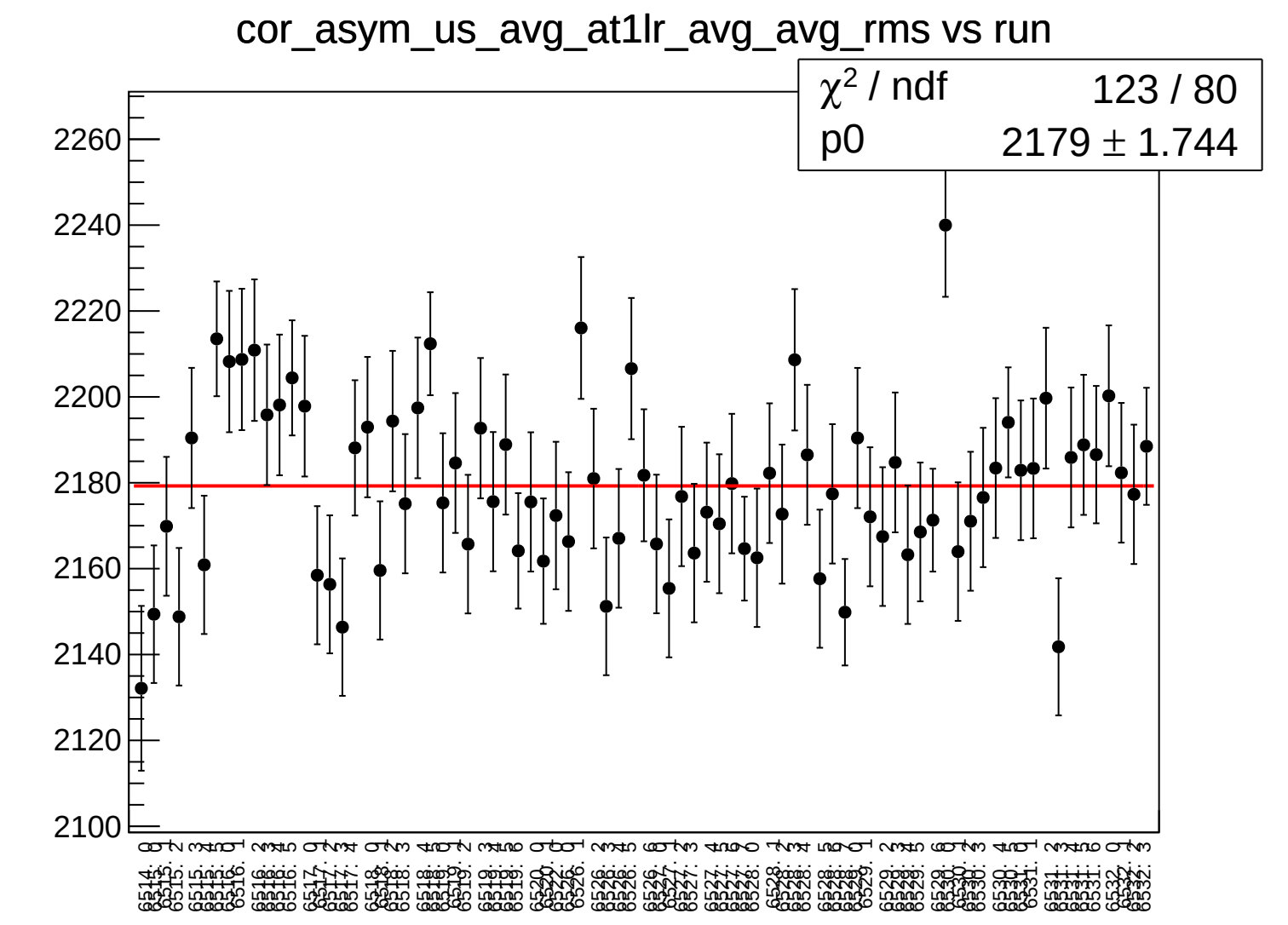

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 89.39 / 80
p0 2521 ± 2641
pull
Entries 81
Mean −50.36
Std Dev 0

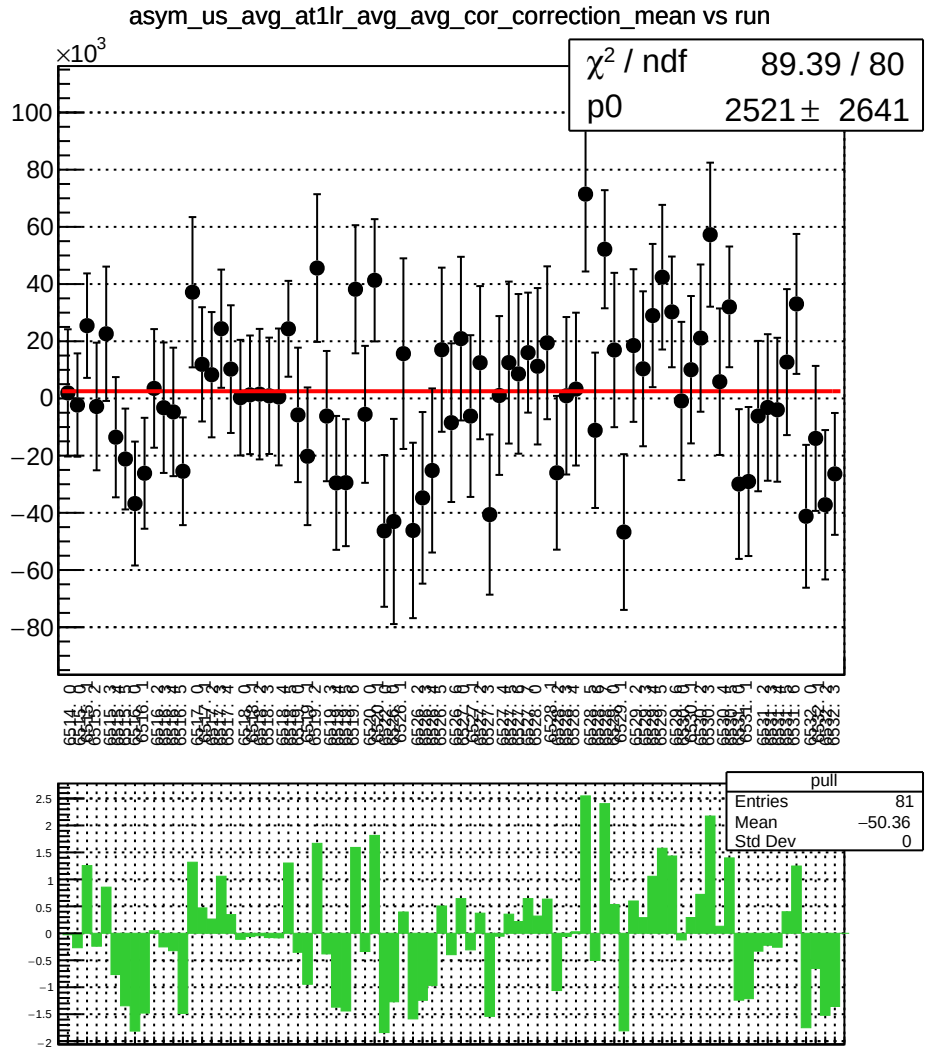

pull1D
Entries 81
Mean −0.01954
Std Dev 1.05

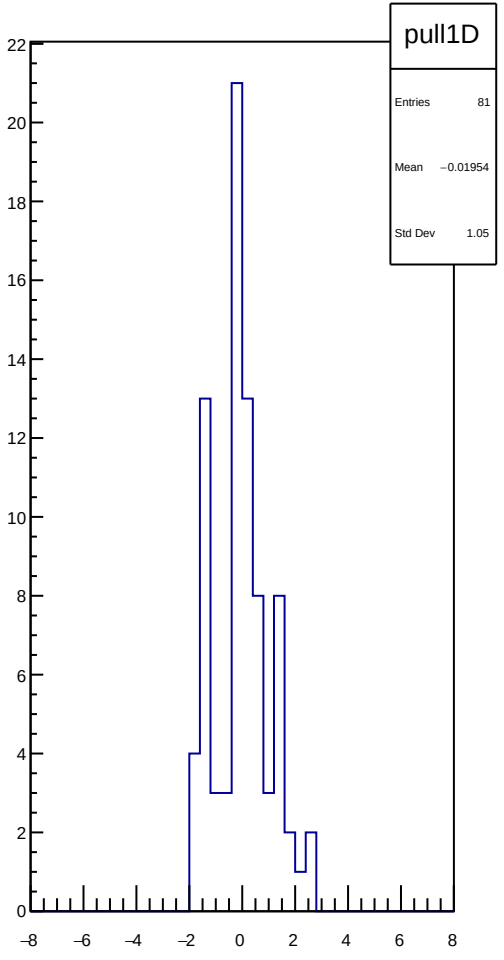

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 2.567e+04 / 80
p0 2314 ± 1.867
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600

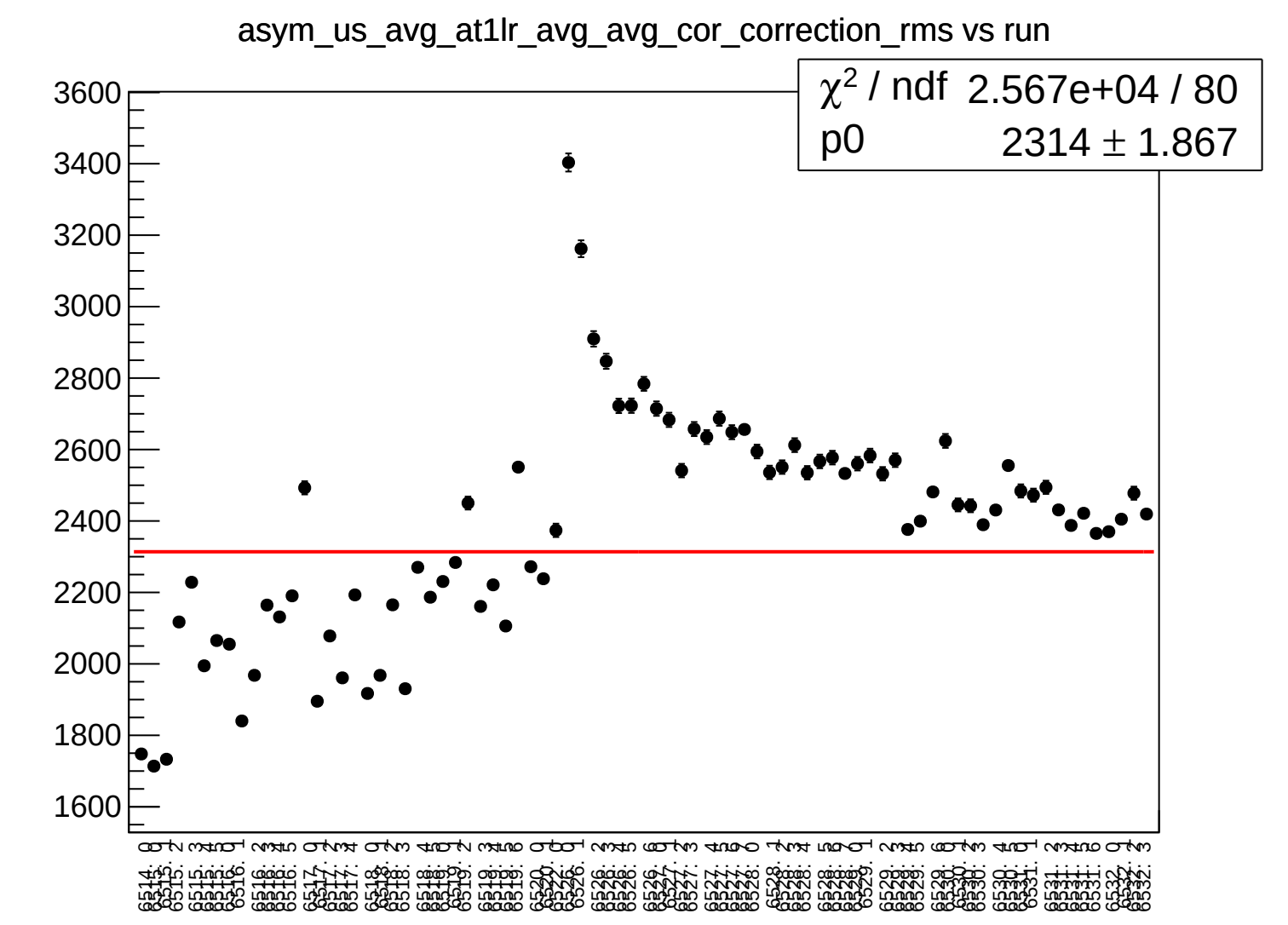

cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 58.09 / 80
p0 4644 ± 2467
pull
Entries 81
Mean 154.1
Std Dev 0

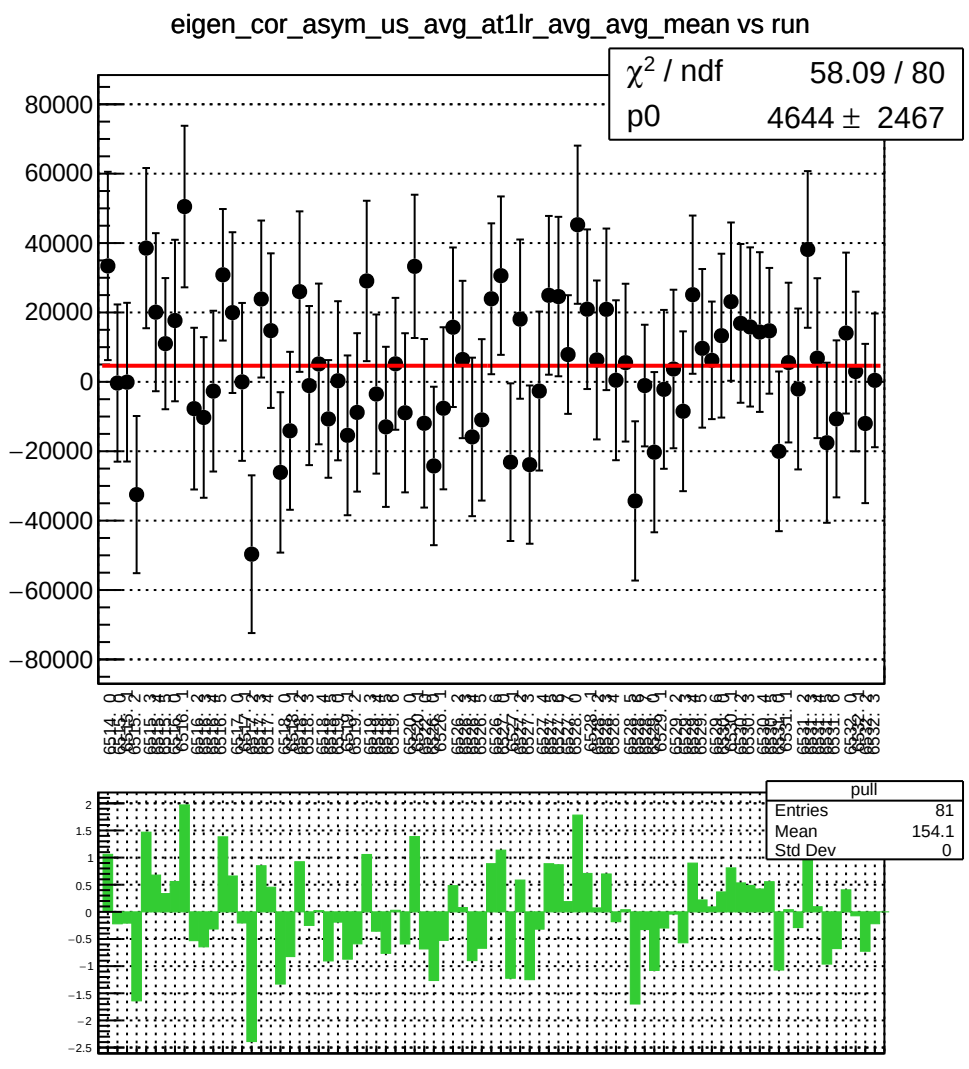

pull1D
Entries 81
Mean −0.002411
Std Dev 0.8468

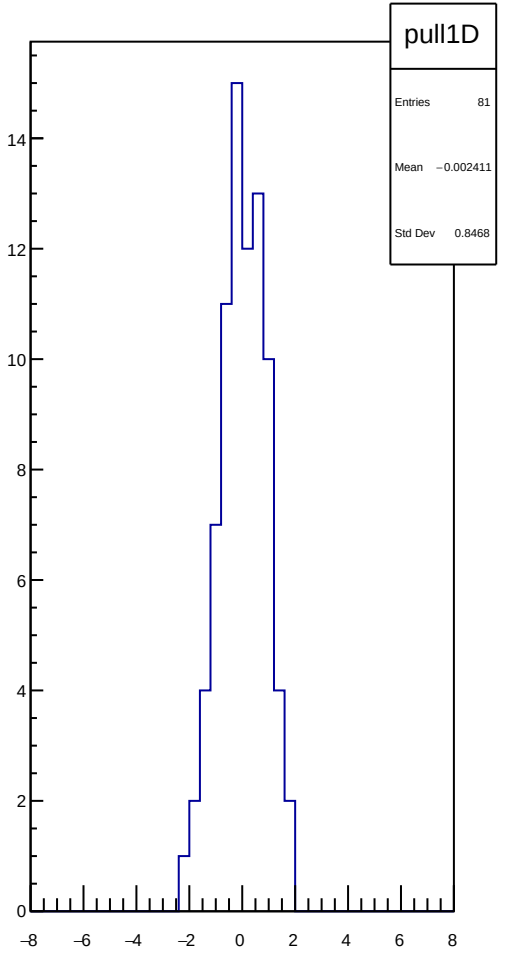

cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 123 / 80
p0 2179 ± 1.744
2260
2240
2220
2200
2180
2160
2140
2120
2100

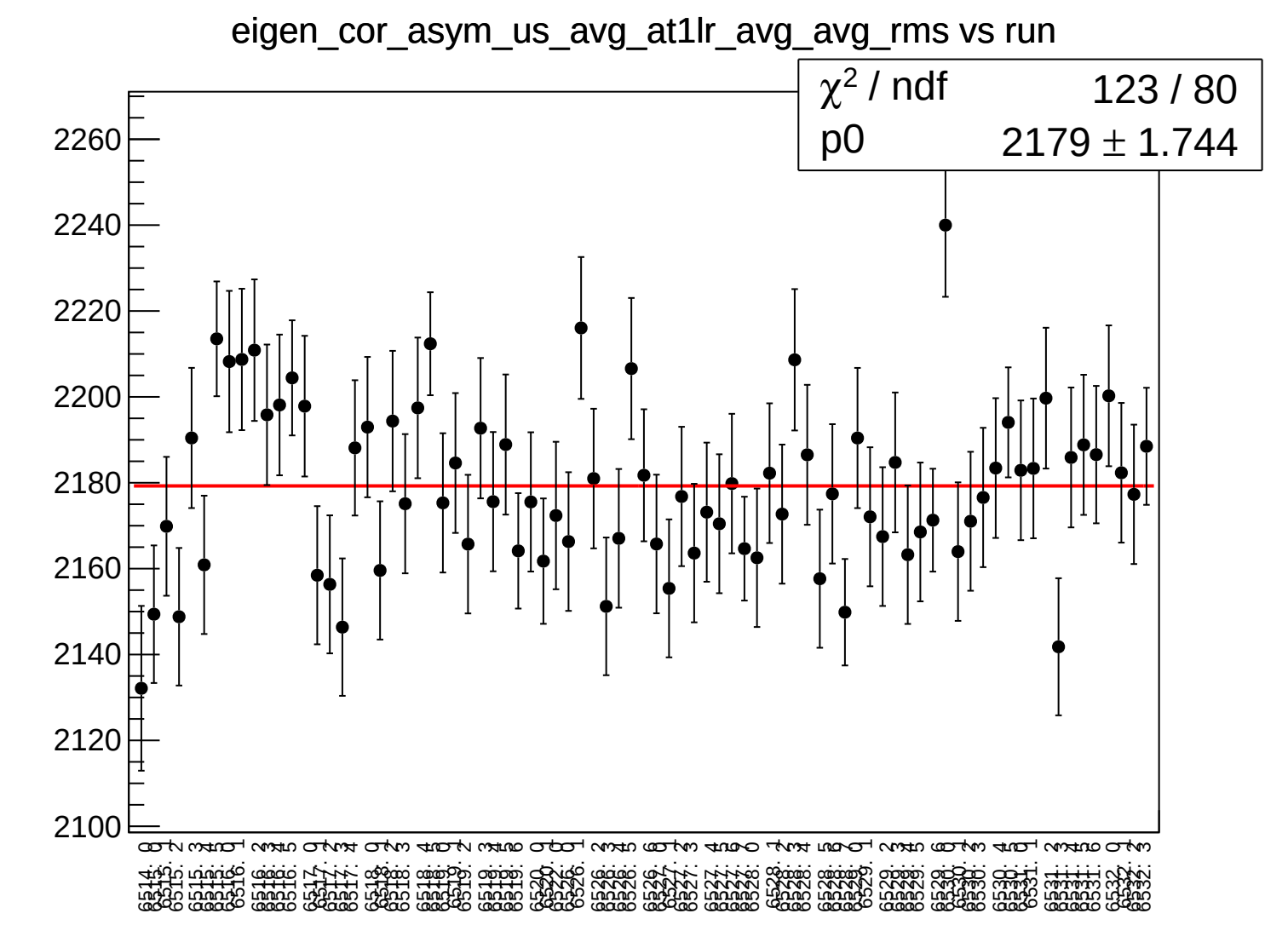

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
χ² / ndf 89.39 / 80
p0 2521 ± 2641
pull
Entries 81
Mean −50.36
Std Dev 0

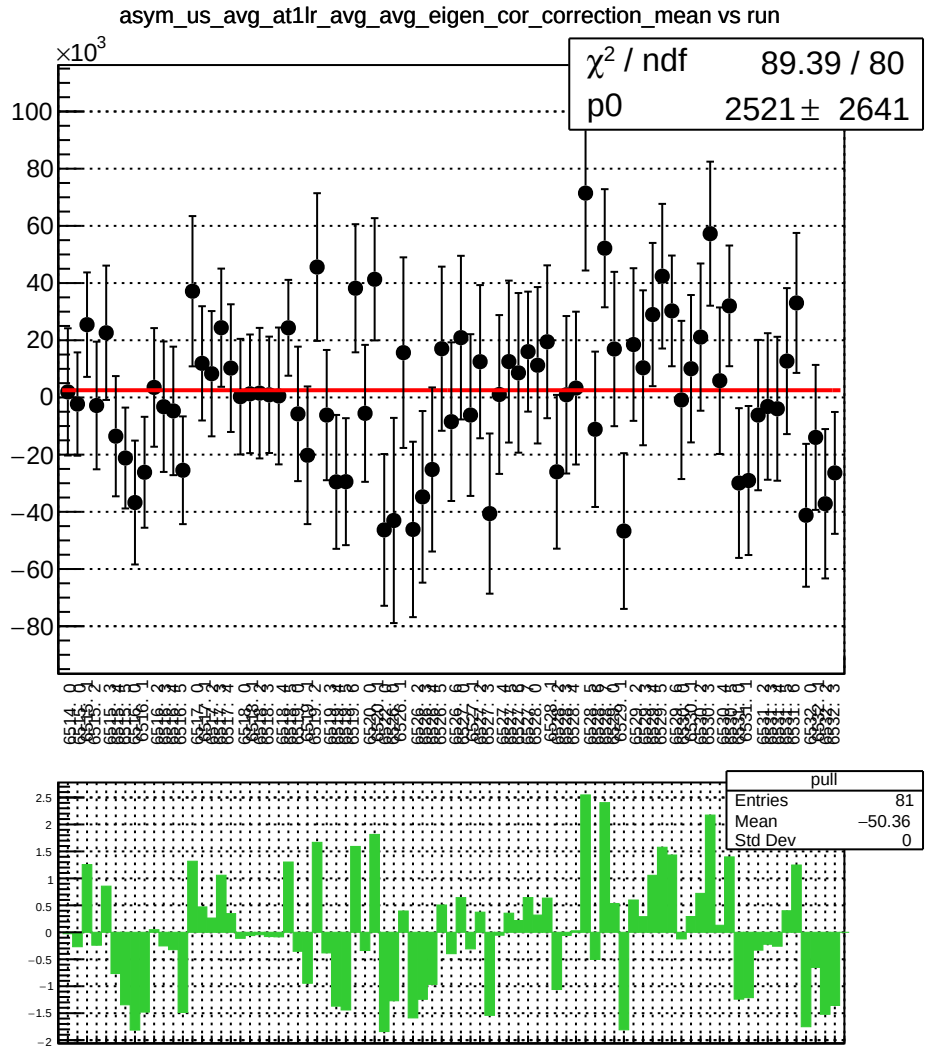

pull1D
Entries 81
Mean −0.01954
Std Dev 1.05

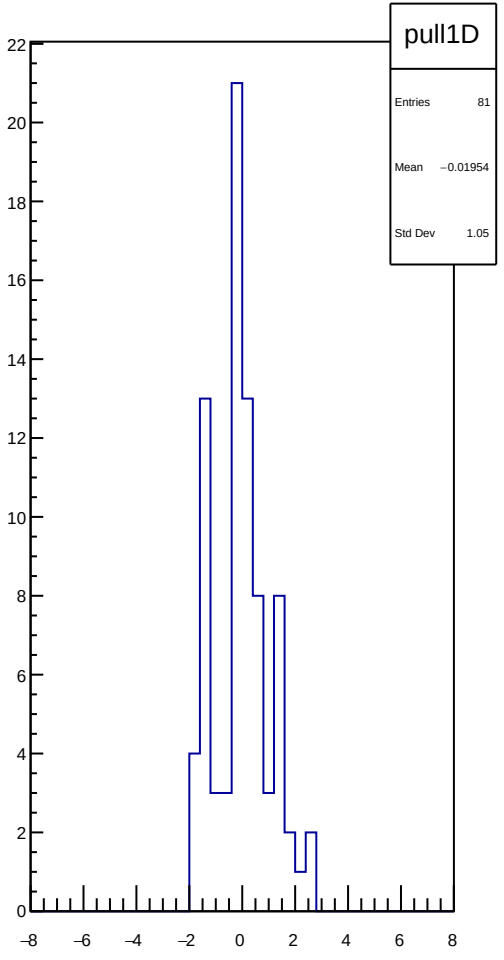

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 2.567e+04 / 80
p0 2314 ± 1.867
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600

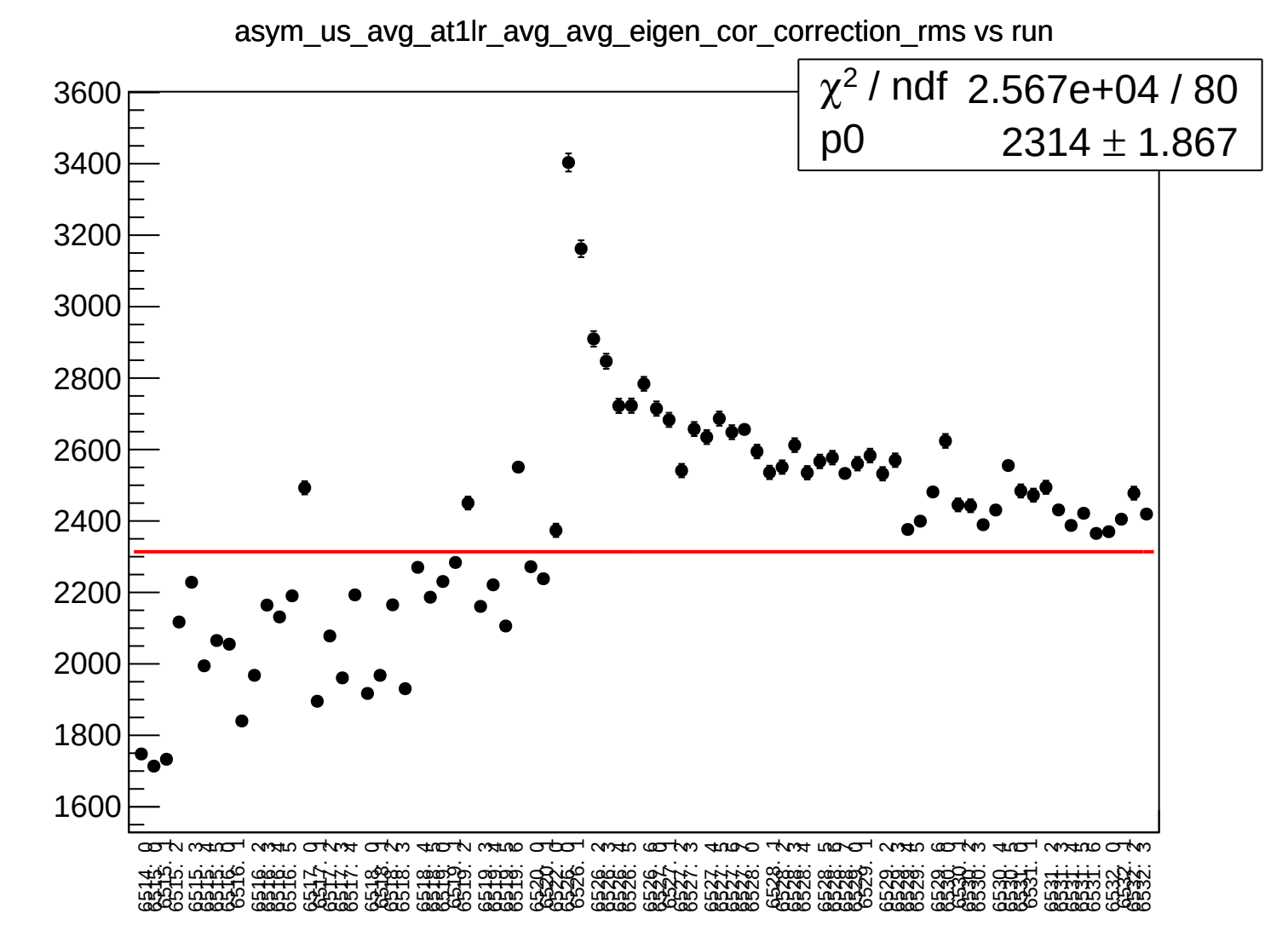

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 58.09 / 80
p0 4644 ± 2467
pull
Entries 81
Mean 154.1
Std Dev 0

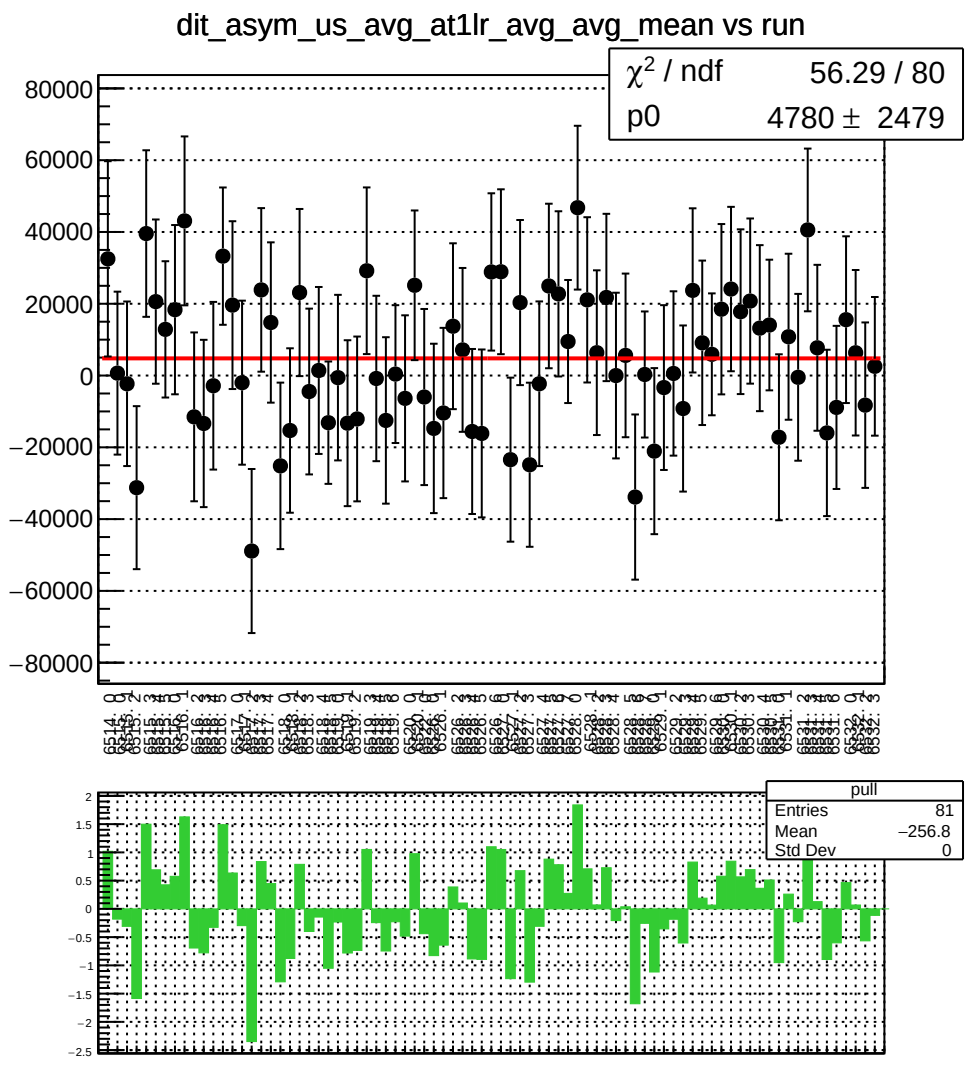

pull1D
Entries 81
Mean −0.002411
Std Dev 0.8468

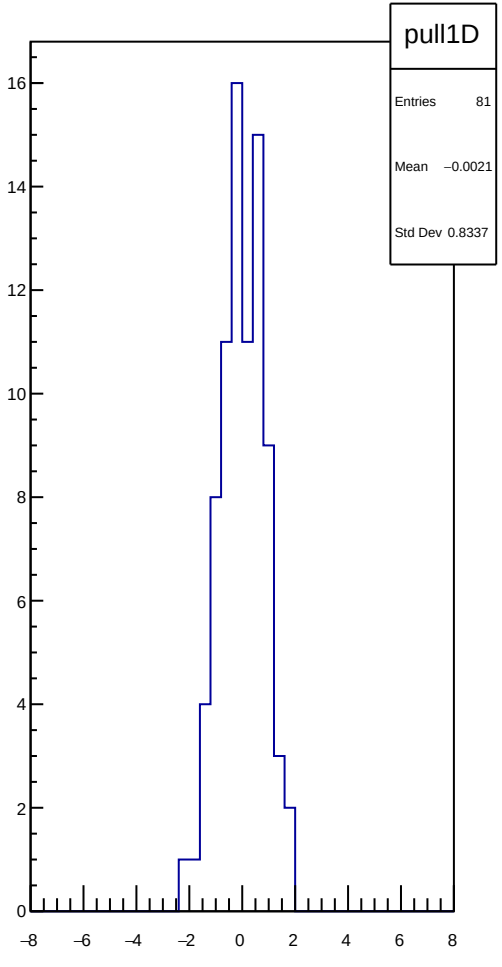

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 123 / 80
p0 2179 ± 1.744
2260
2240
2220
2200
2180
2160
2140
2120
2100

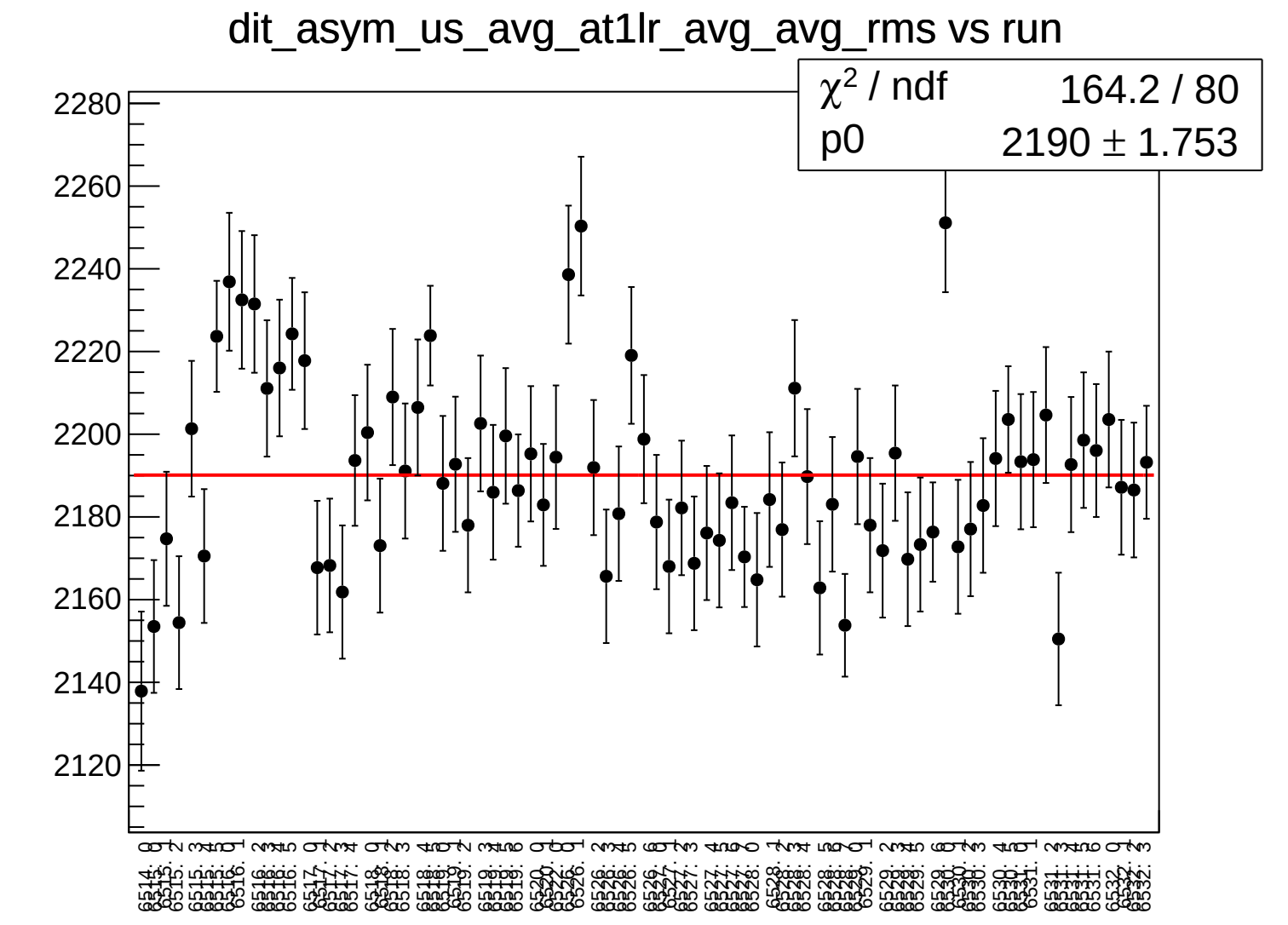

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 89.39 / 80
p0 2521 ± 2641
pull
Entries 81
Mean −50.36
Std Dev 0

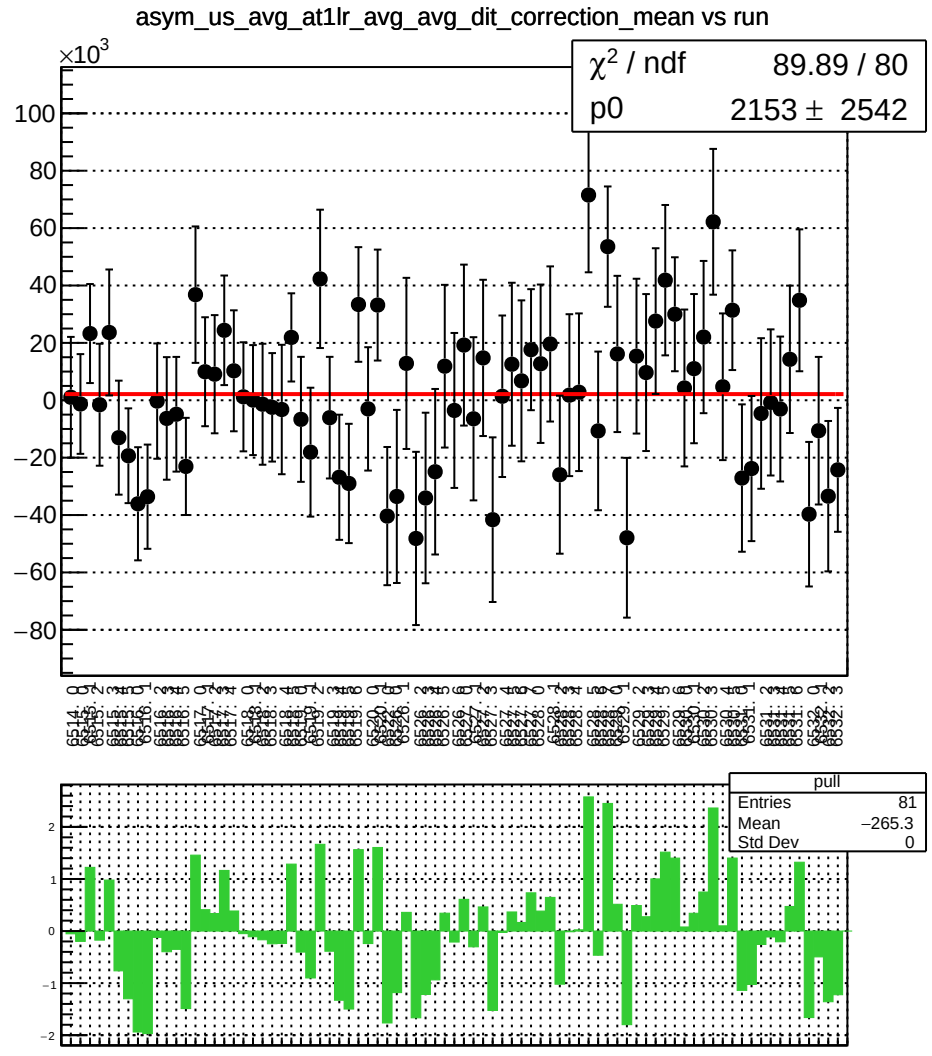

pull1D
Entries 81
Mean −0.01954
Std Dev 1.05

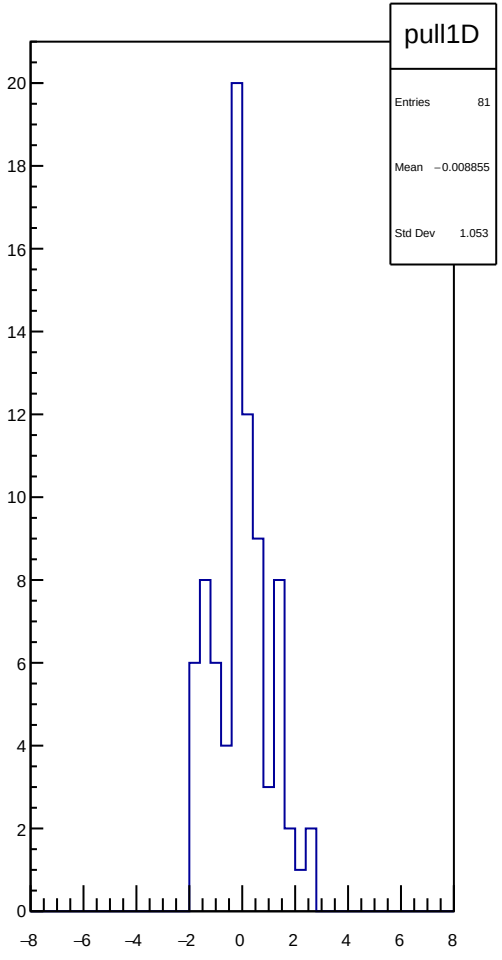

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.567e+04 / 80
p0 2314 ± 1.867
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600

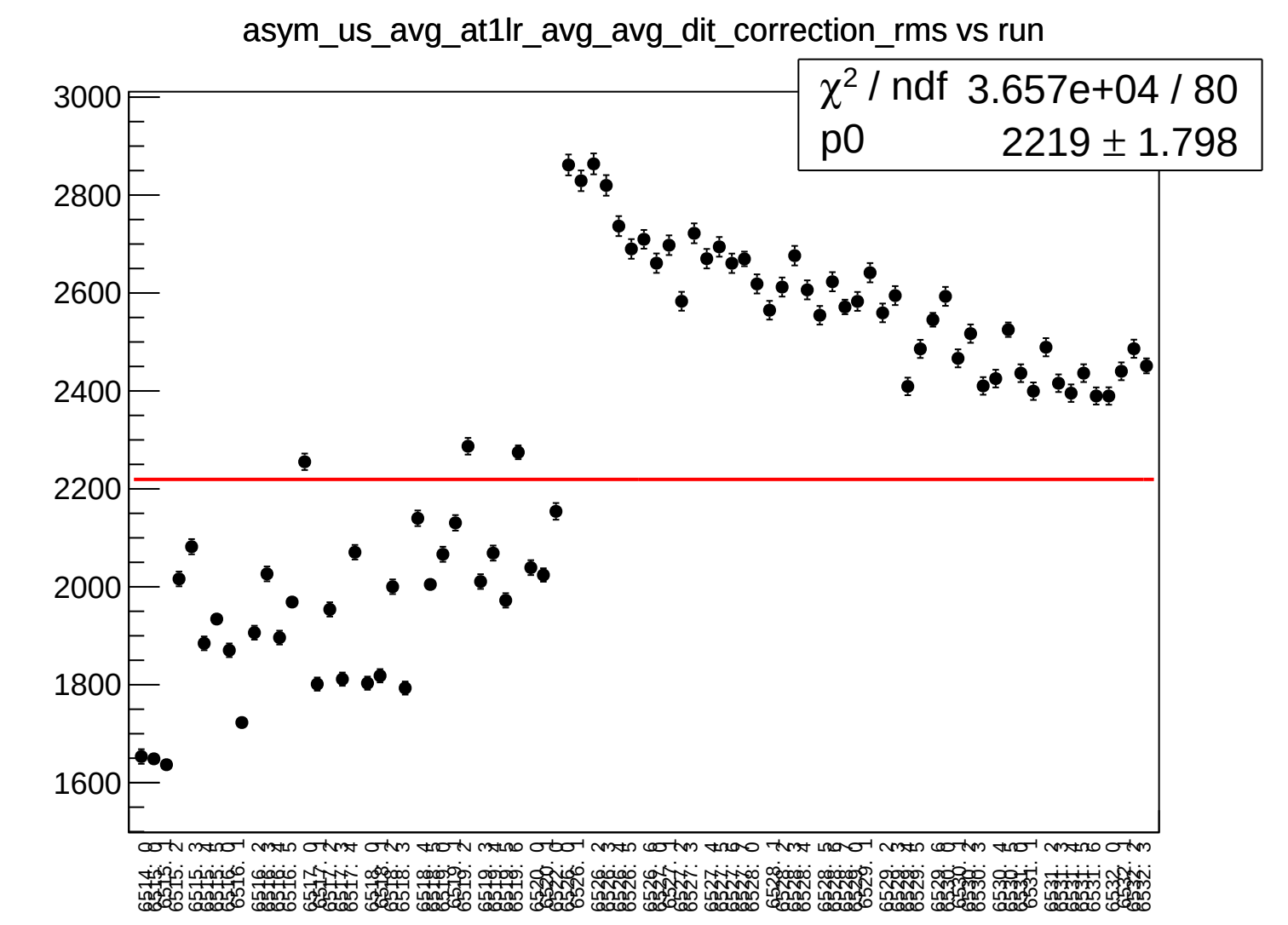

dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 56.29 / 80
p0 4780 ± 2479
pull
Entries 81
Mean −256.8
Std Dev 0

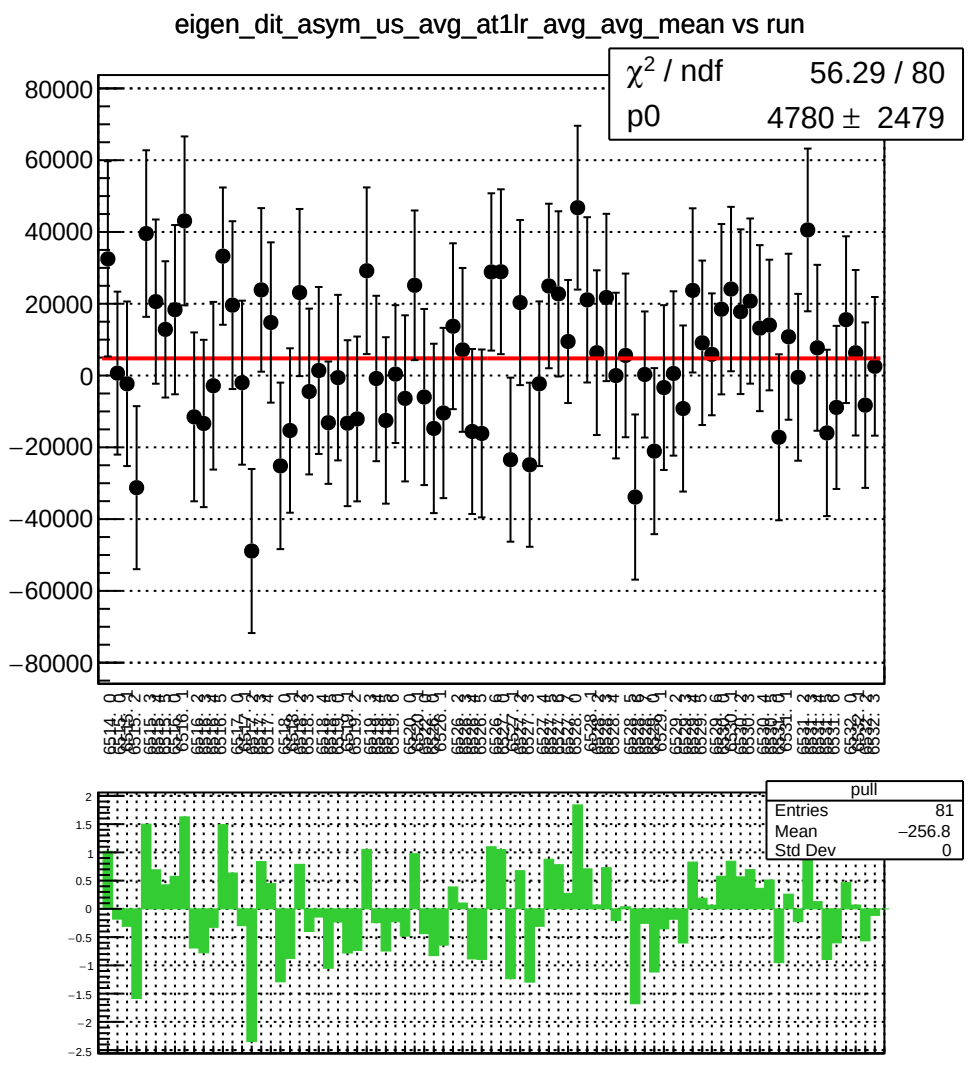

pull1D
Entries 81
Mean −0.0021
Std Dev 0.8337

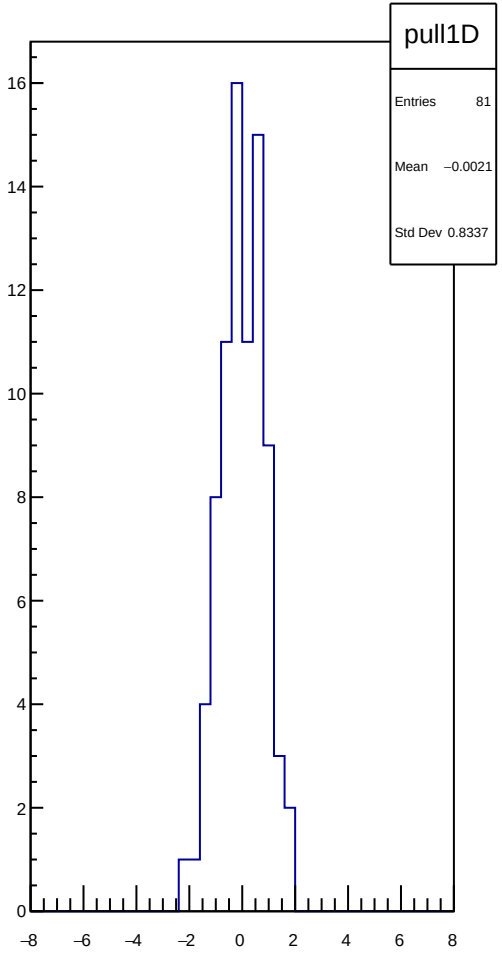

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 164.2 / 80
p0 2190 ± 1.753
2280
2260
2240
2220
2200
2180
2160
2140
2120

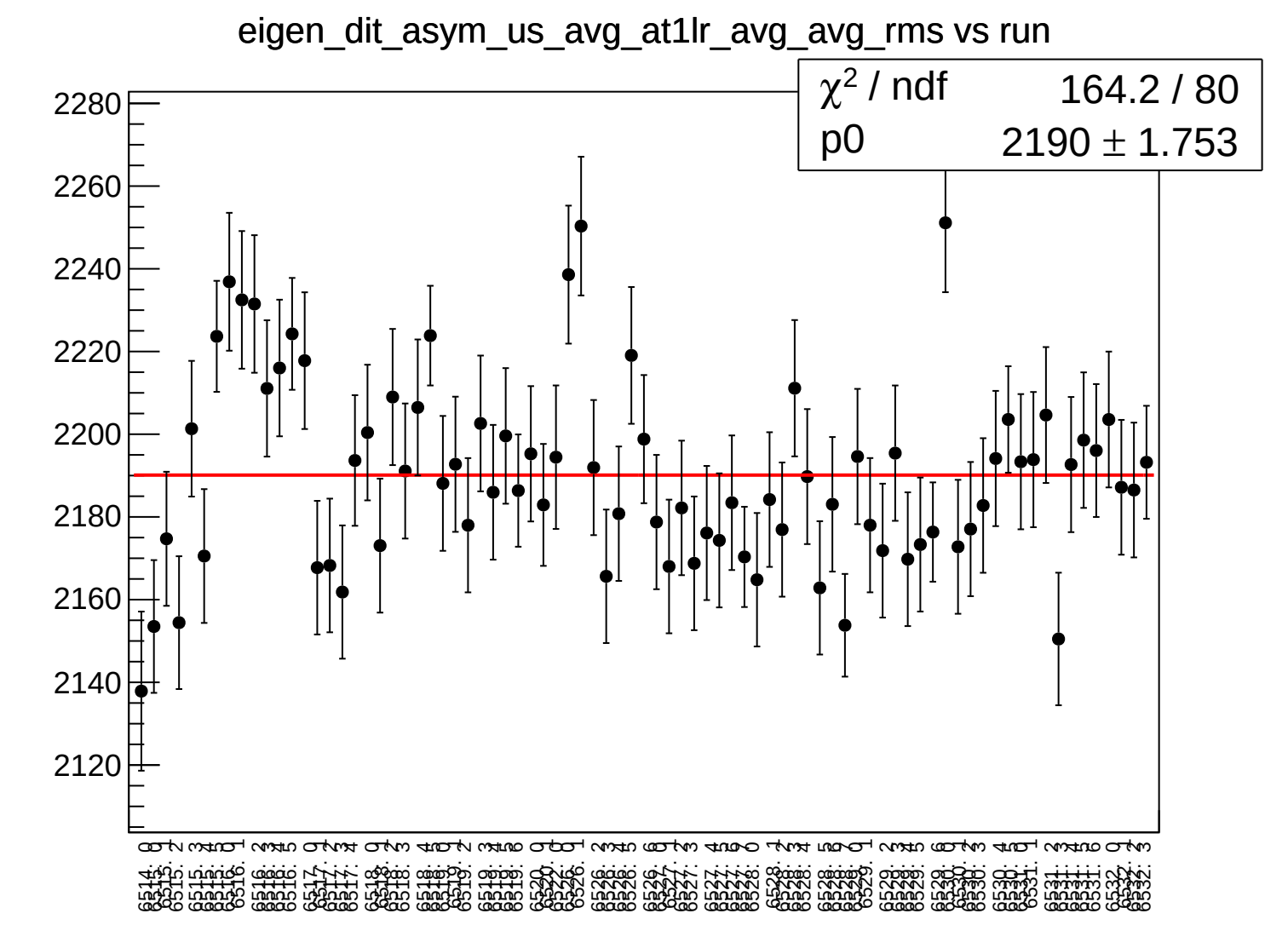

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
χ² / ndf 89.89 / 80
p0 2153 ± 2542
pull
Entries 81
Mean −265.3
Std Dev 0

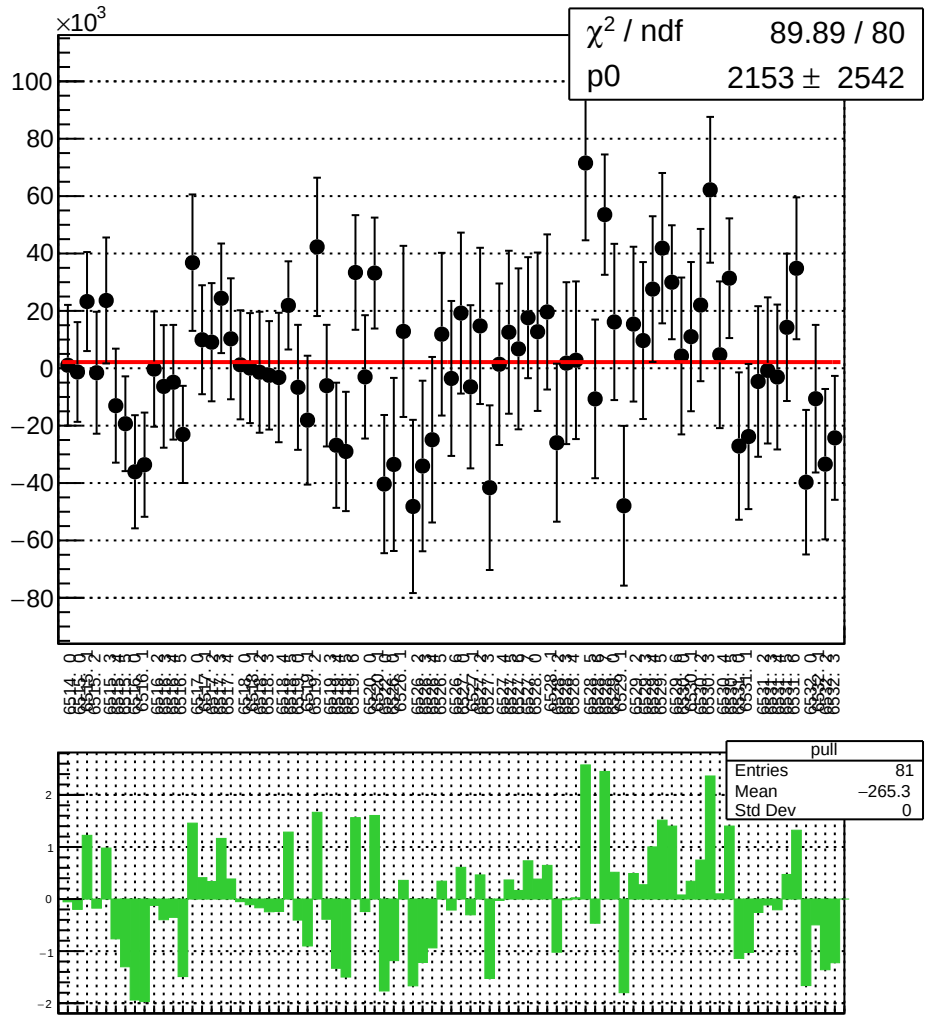

pull1D
Entries 81
Mean −0.008855
Std Dev 1.053

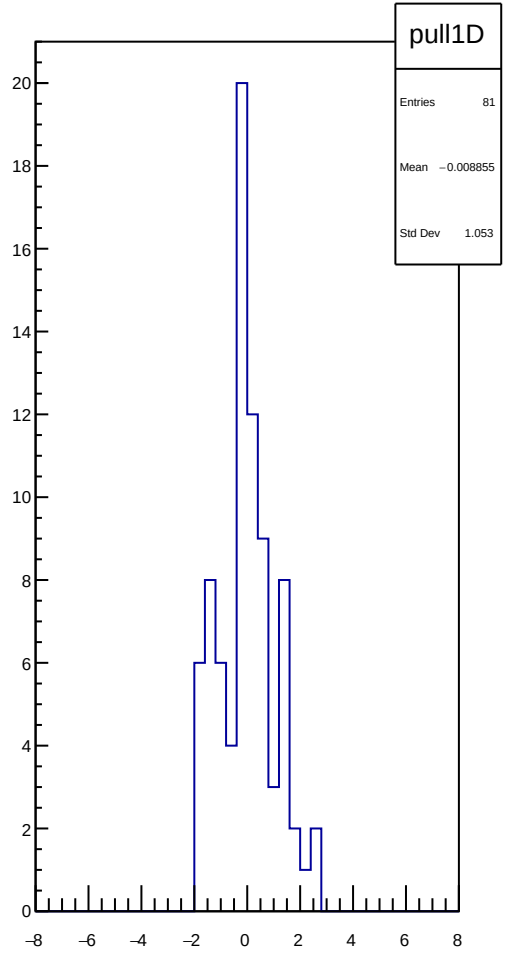

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 3.657e+04 / 80
p0 2219 ± 1.798
3000
2800
2600
2400
2200
2000
1800
1600

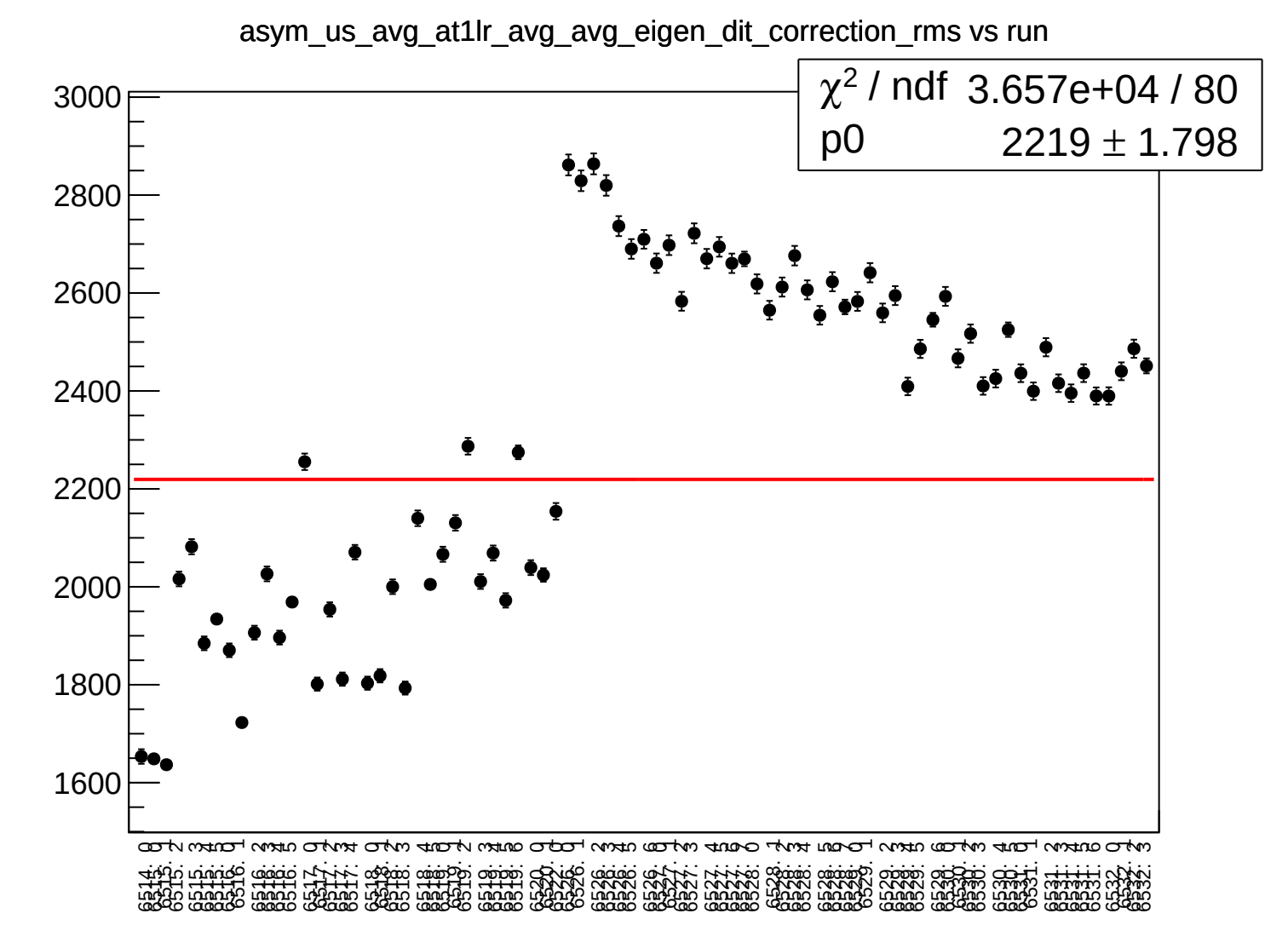

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 56.29 / 80
p0 4780 ± 2479
pull
Entries 81
Mean −256.8
Std Dev 0

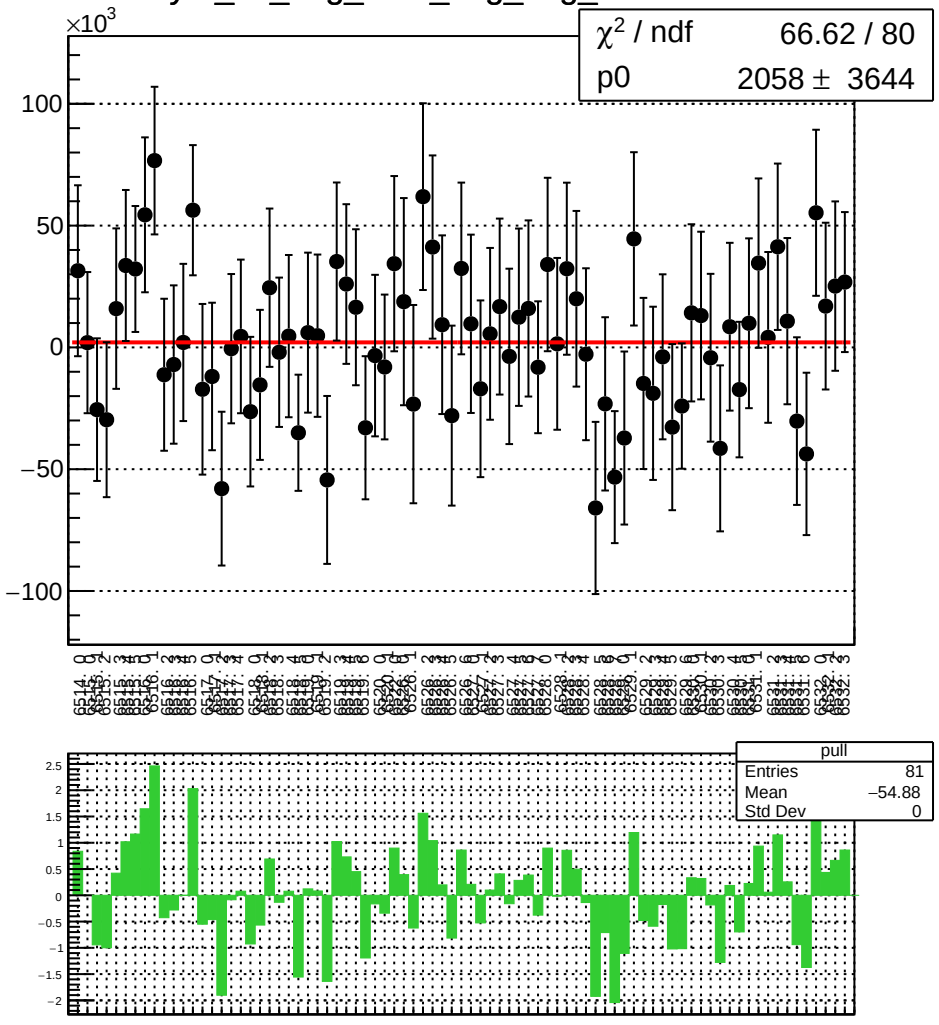

pull1D
Entries 81
Mean −0.0021
Std Dev 0.8337

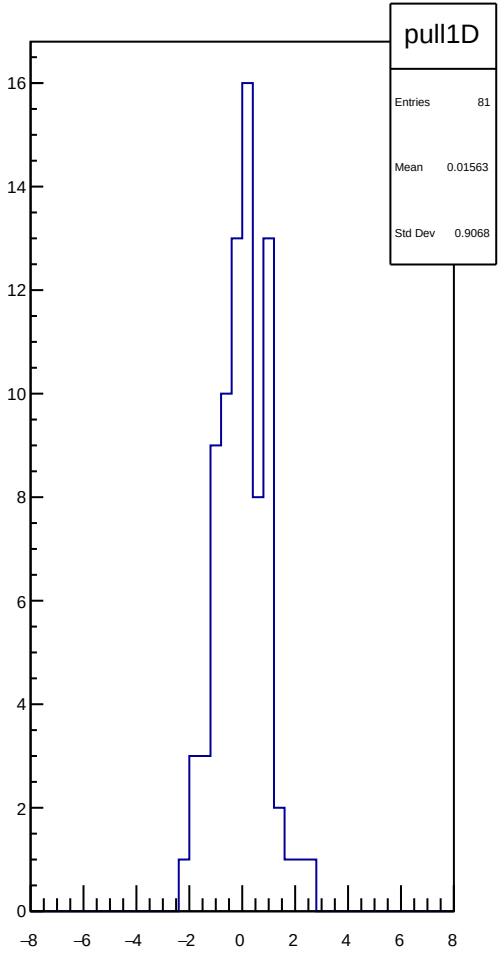

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 164.2 / 80
p0 2190 ± 1.753
2280
2260
2240
2220
2200
2180
2160
2140
2120

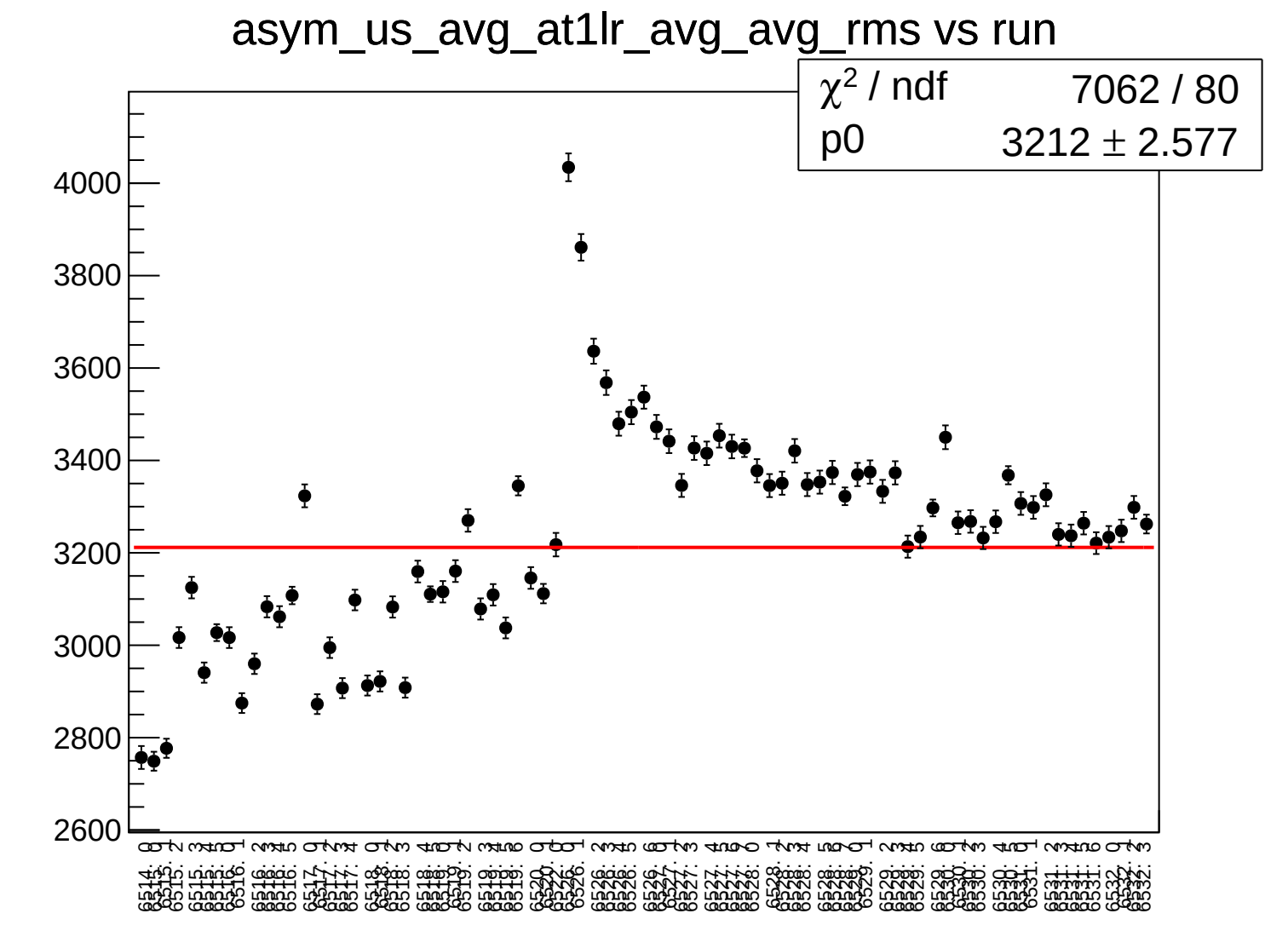

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 89.89 / 80
p0 2153 ± 2542
pull
Entries 81
Mean −265.3
Std Dev 0

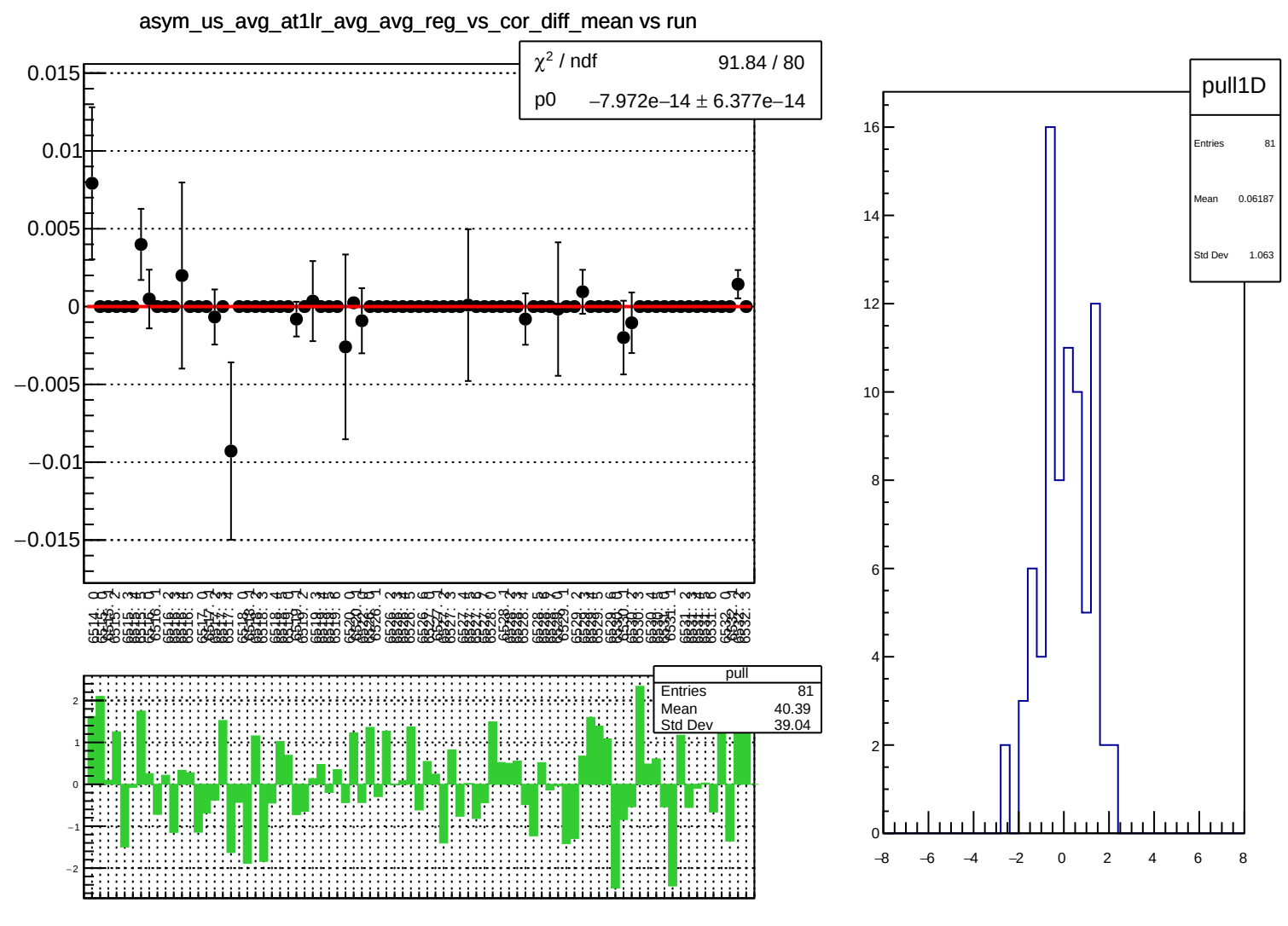

pull1D
Entries 81
Mean −0.008855
Std Dev 1.053

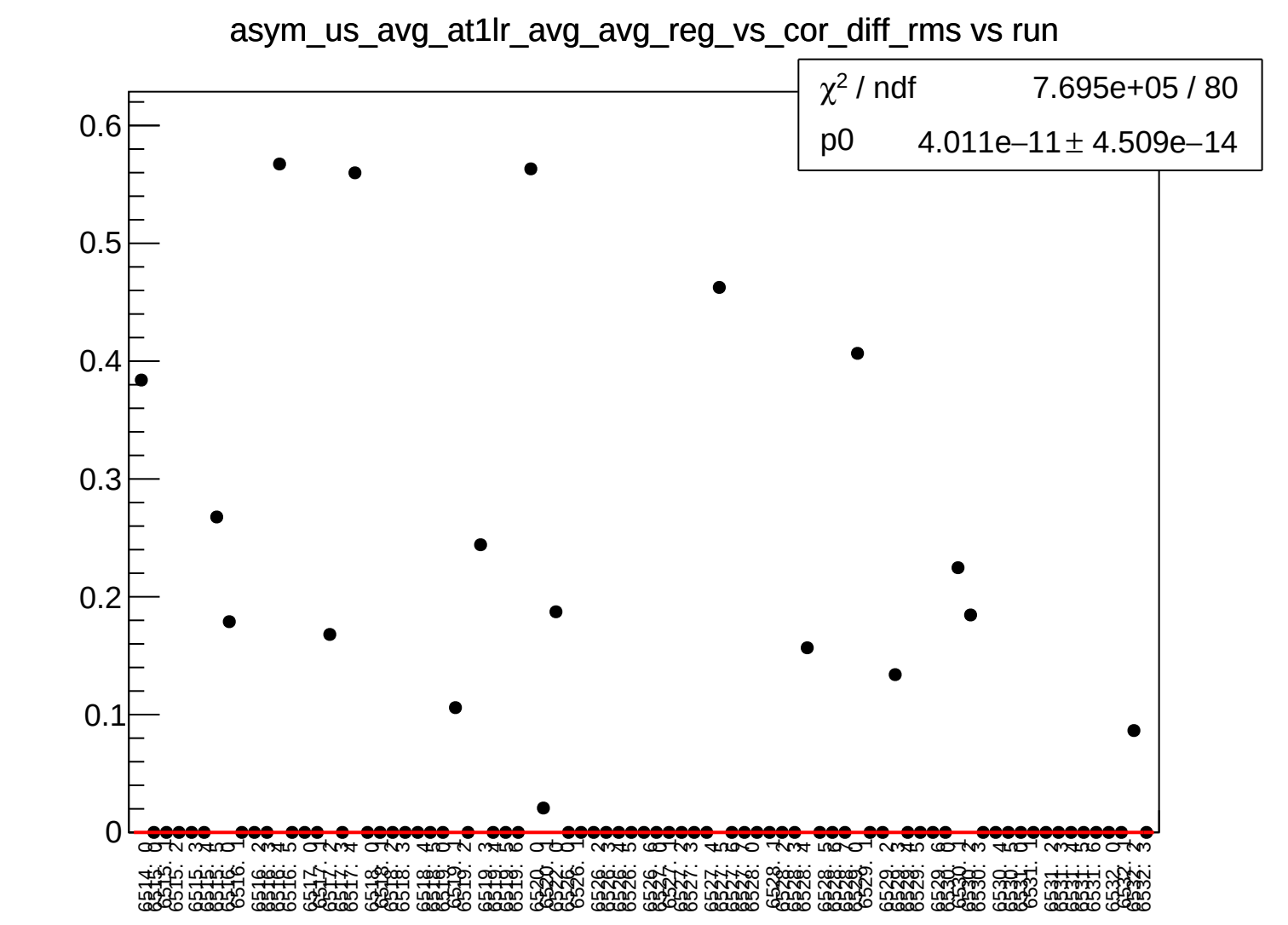

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.657e+04 / 80
p0 2219 ± 1.798
3000
2800
2600
2400
2200
2000
1800
1600

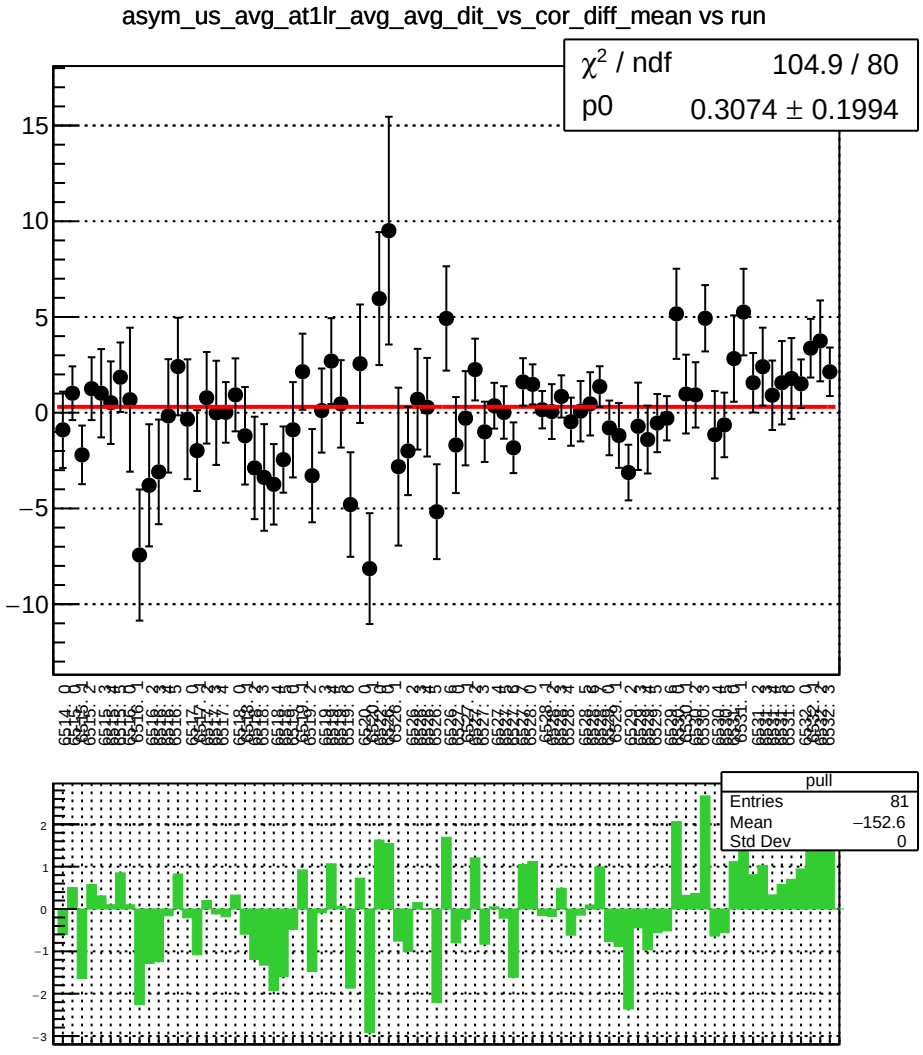

asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 66.62 / 80
p0 2058 ± 3644
100
50
0
−50
−100
pull
Entries 81
Mean −54.88
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

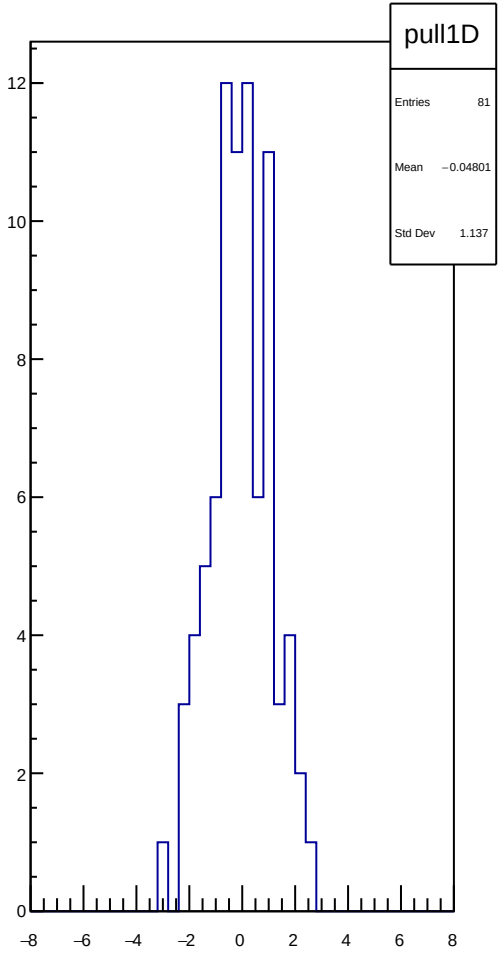

pull1D
Entries 81
Mean 0.01563
Std Dev 0.9068
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

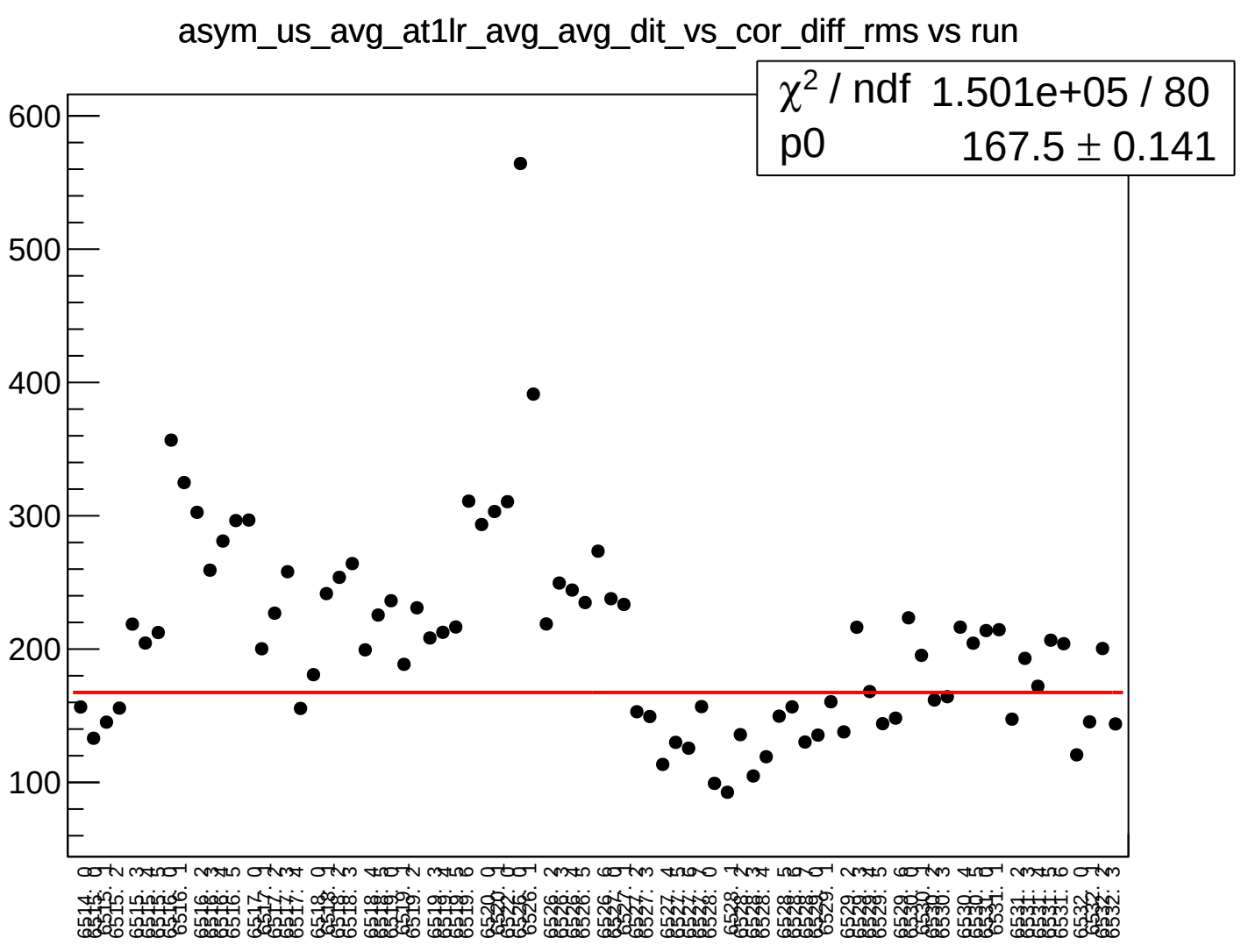

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 7062 / 80
p0 3212 ± 2.577
4000
3800
3600
3400
3200
3000
2800
2600

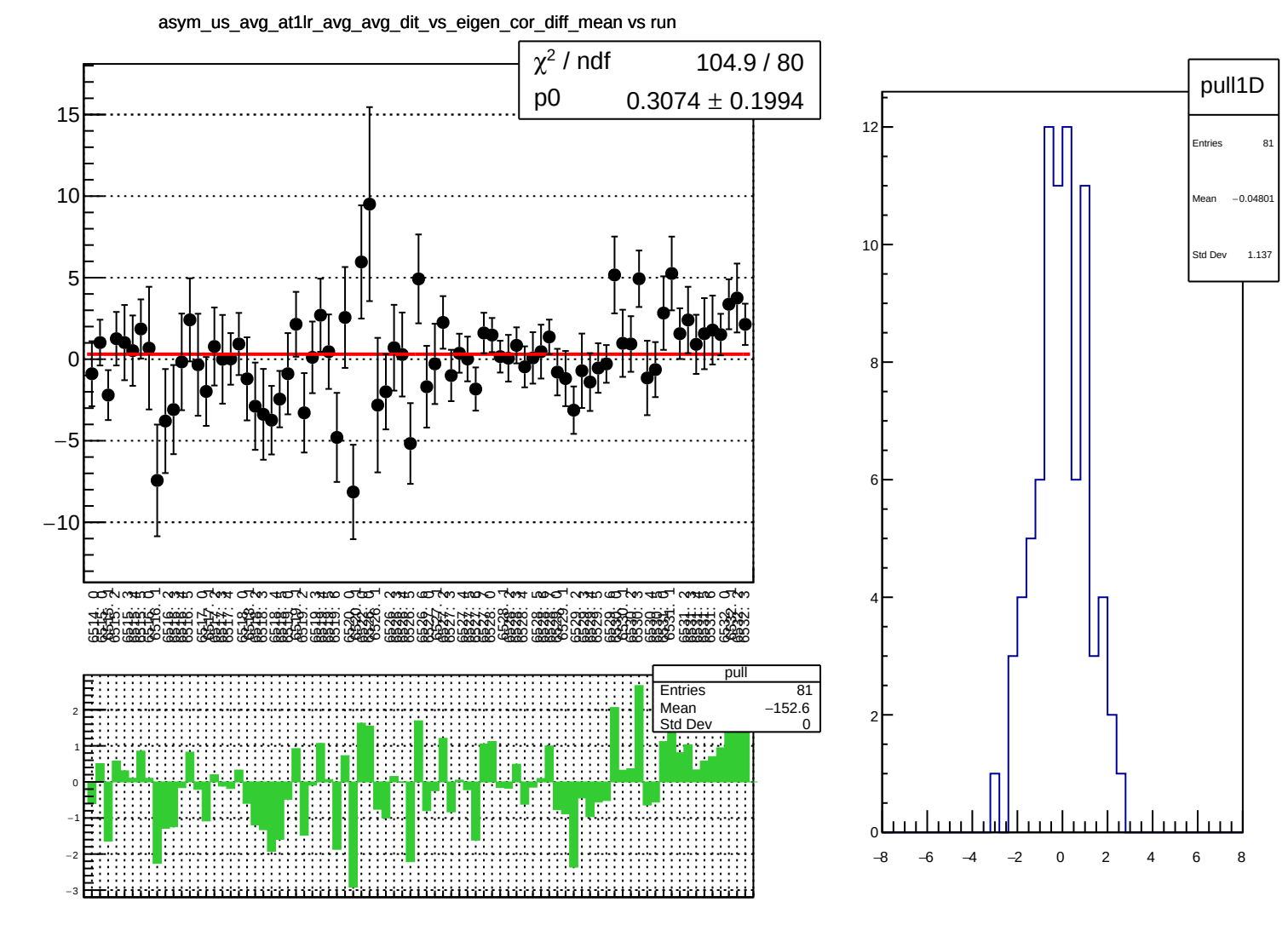

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 91.84 / 80
p0 −7.972e−14 ± 6.377e−14
pull
Entries 81
Mean 40.39
Std Dev 39.04
pull1D
Entries 81
Mean 0.06187
Std Dev 1.063

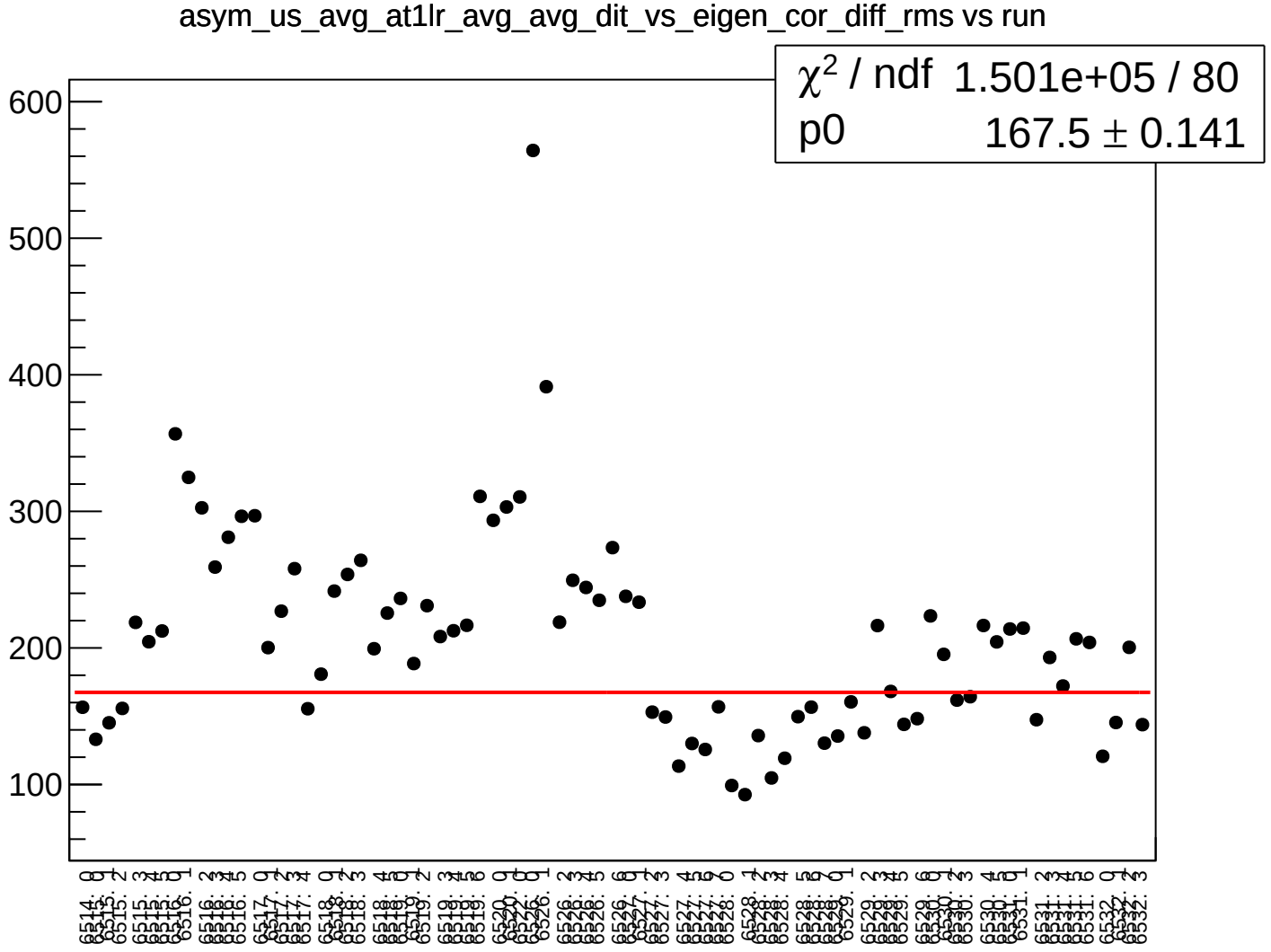

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 7.695e+05 / 80
p0 4.011e−11 ± 4.509e−14
0.6
0.5
0.4
0.3
0.2
0.1
0

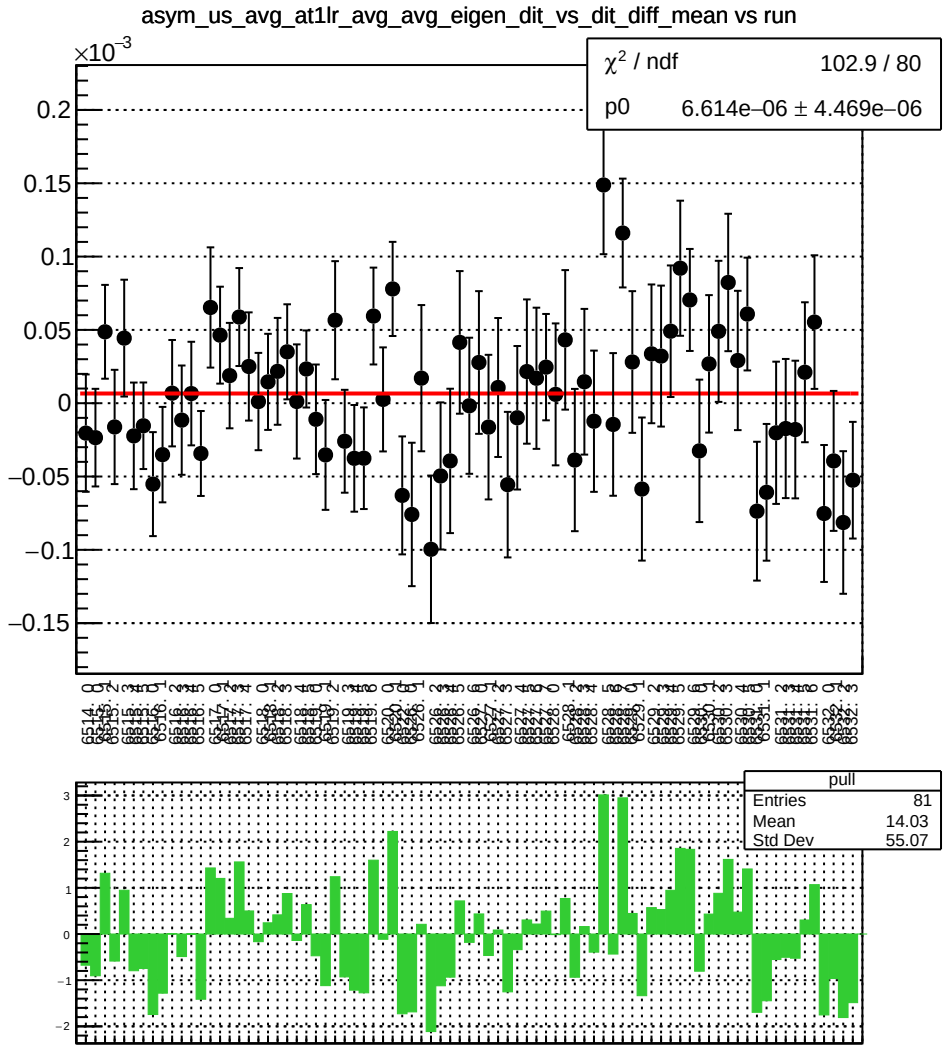

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 104.9 / 80
p0 0.3074 ± 0.1994
pull
Entries 81
Mean −152.6
Std Dev 0

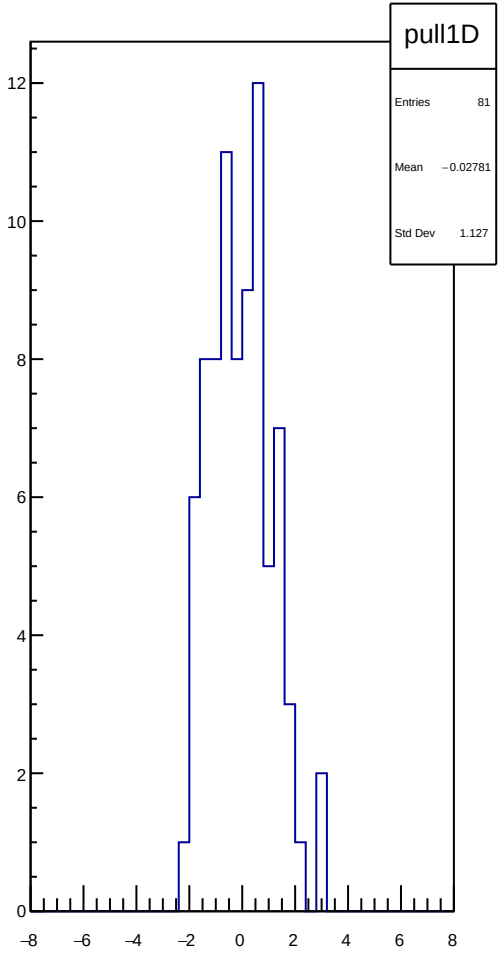

pull1D
Entries 81
Mean −0.04801
Std Dev 1.137

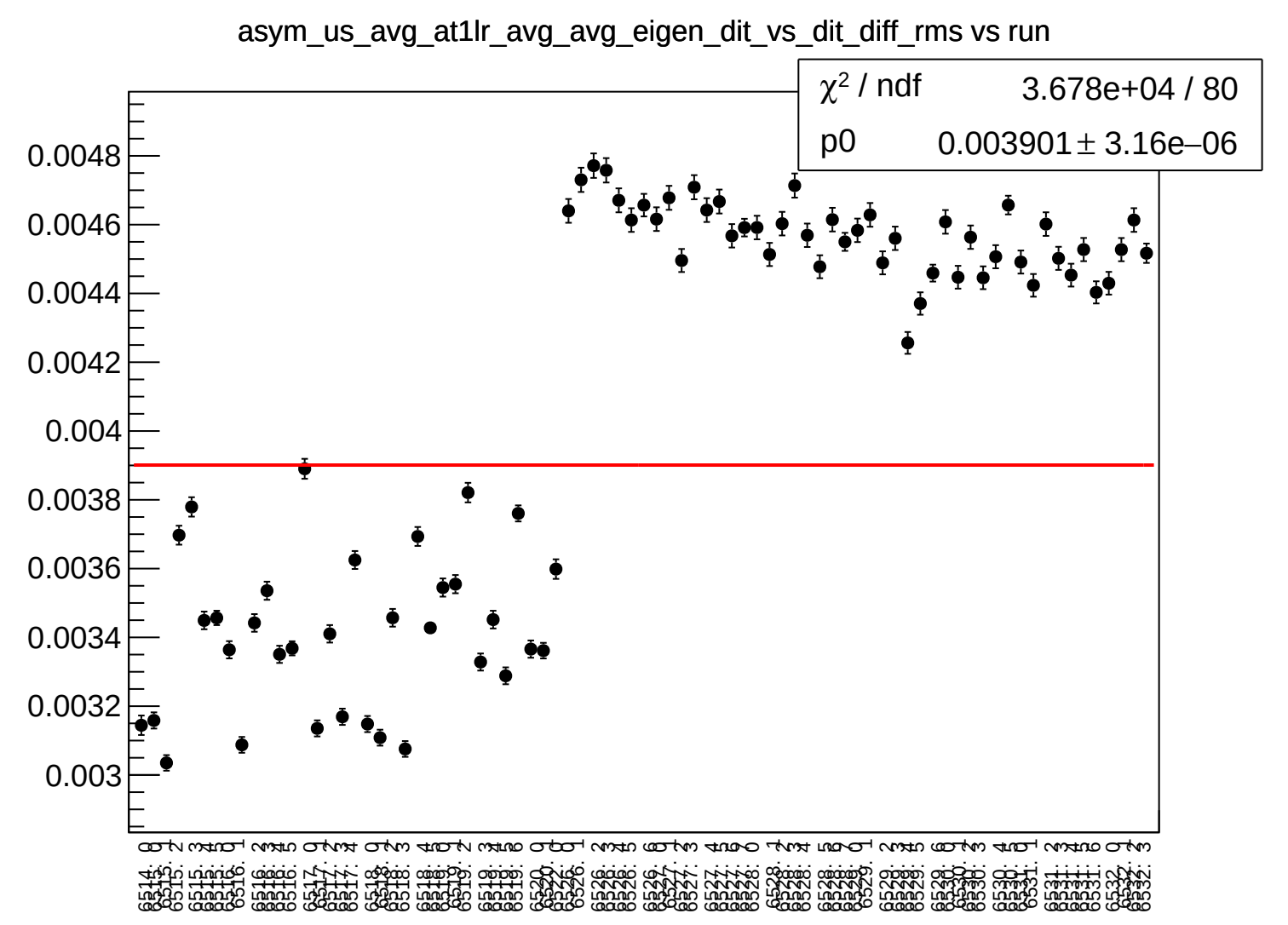

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.501e+05 / 80
p0 167.5 ± 0.141
600
500
400
300
200
100

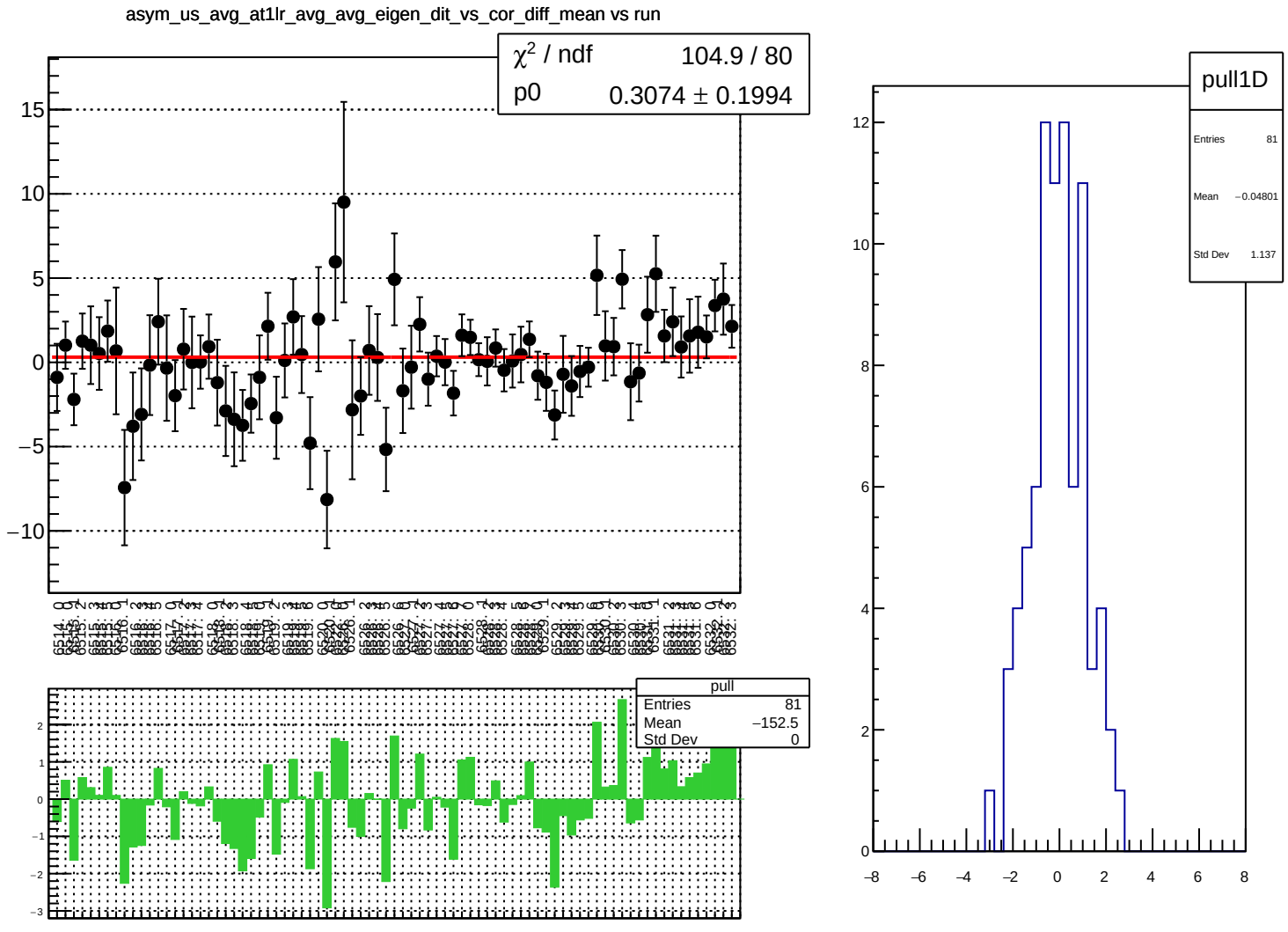

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.9 / 80
p0 0.3074 ± 0.1994
pull
Entries 81
Mean −152.6
Std Dev 0
pull1D
Entries 81
Mean −0.04801
Std Dev 1.137

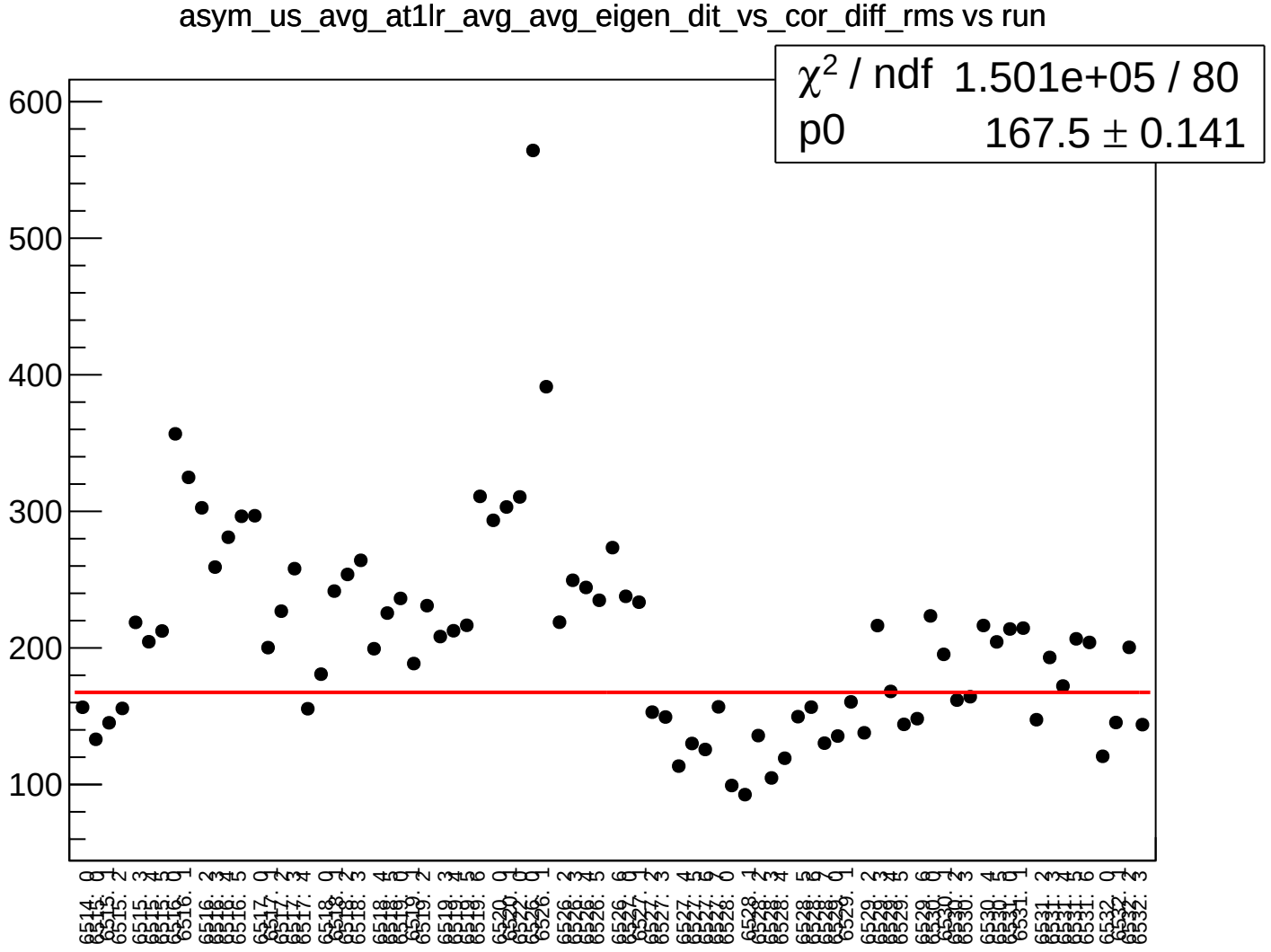

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.501e+05 / 80
p0 167.5 ± 0.141
600
500
400
300
200
100

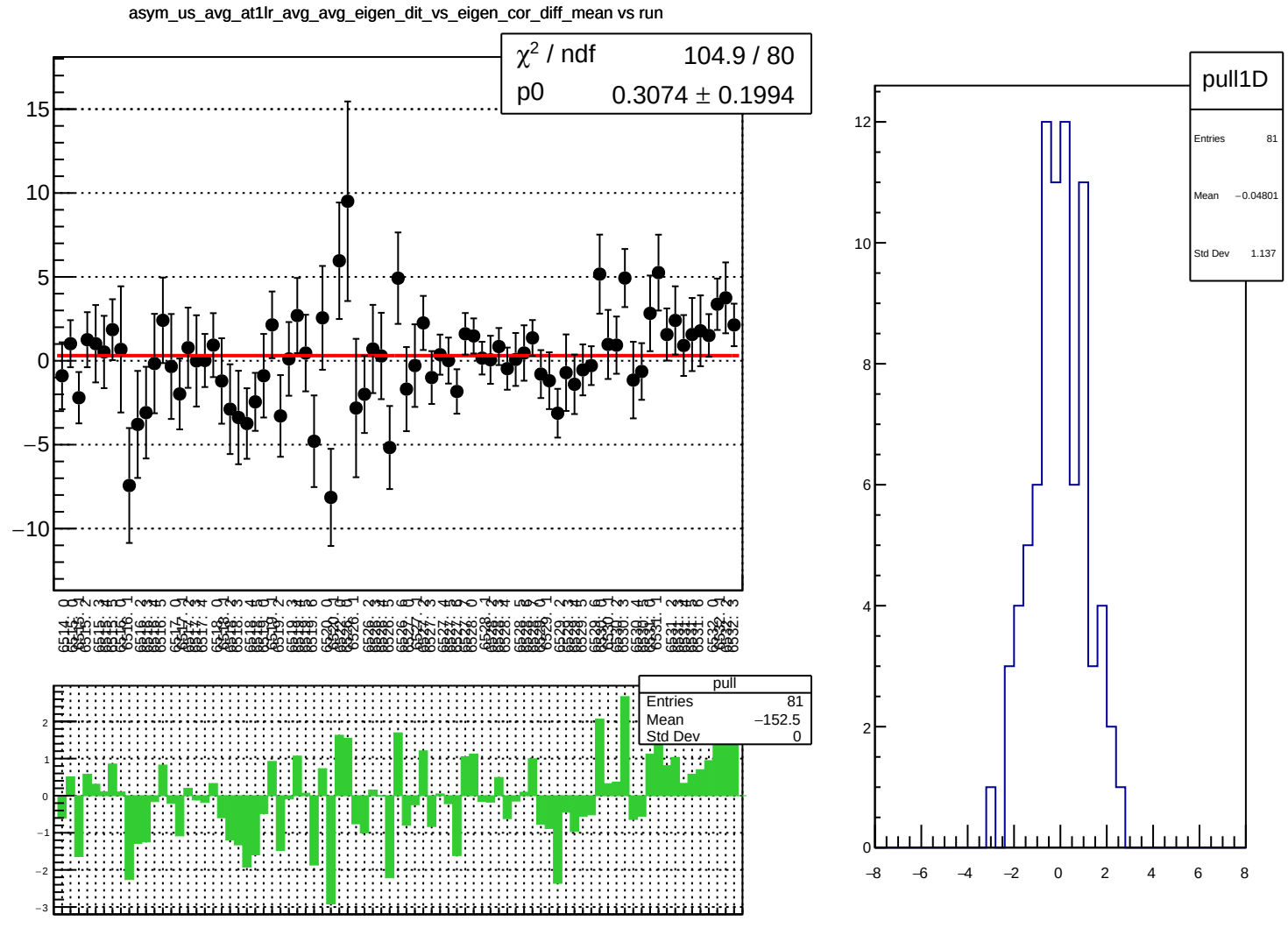

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 102.9 / 80
p0 6.614e−06 ± 4.469e−06
pull
Entries 81
Mean 14.03
Std Dev 55.07

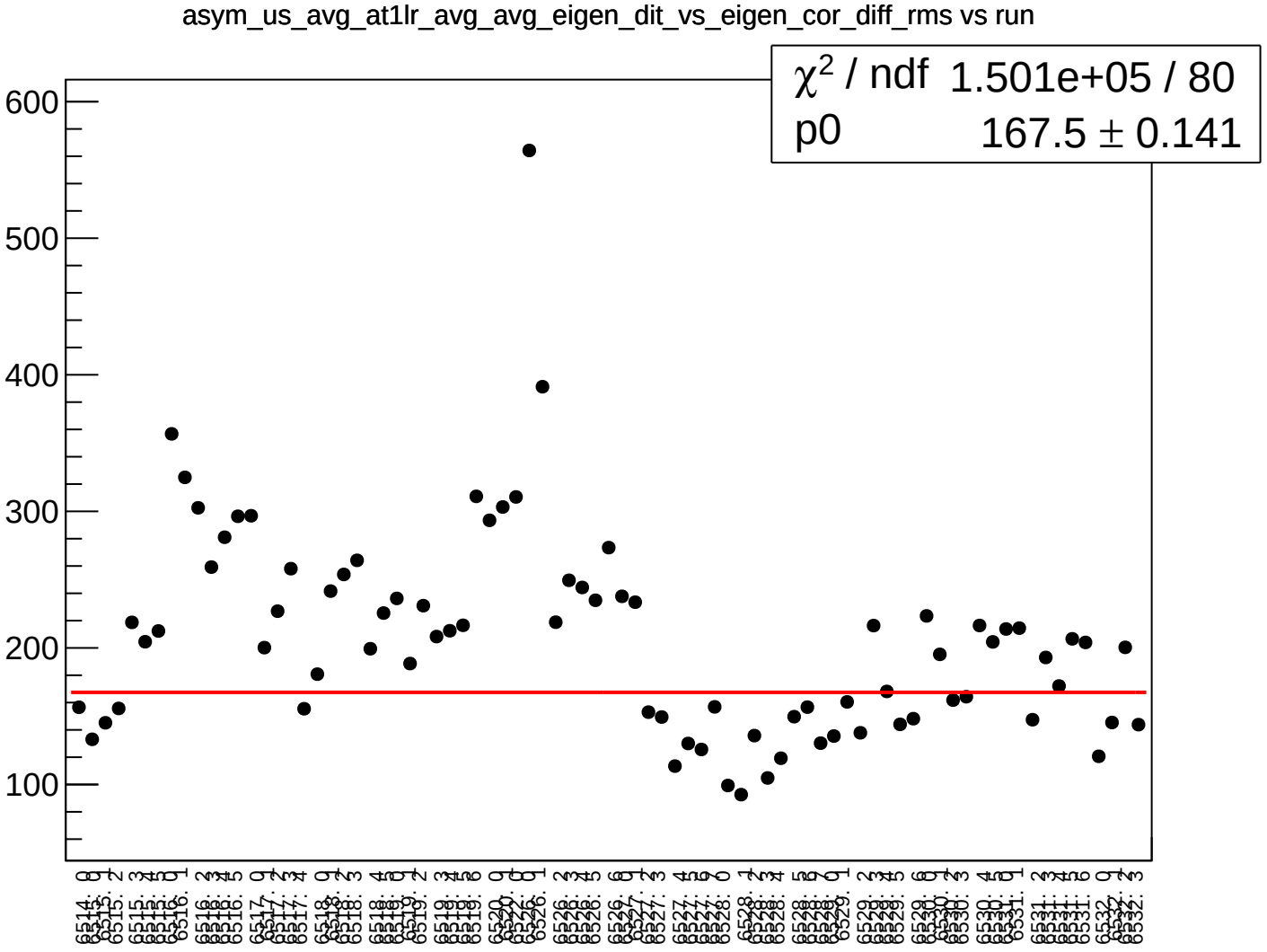

pull1D
Entries 81
Mean −0.02781
Std Dev 1.127

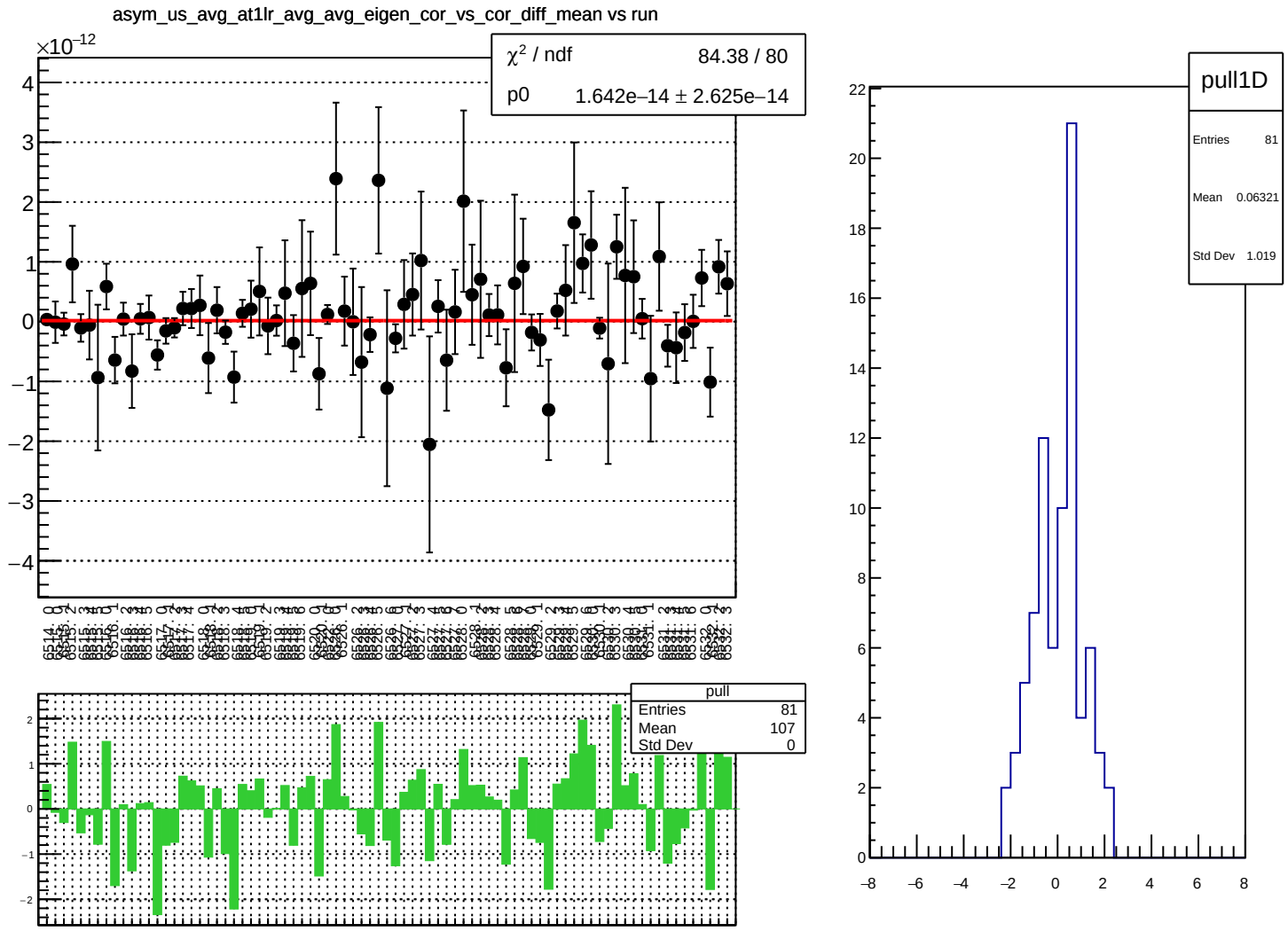

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.678e+04 / 80
p0 0.003901 ± 3.16e−06
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003

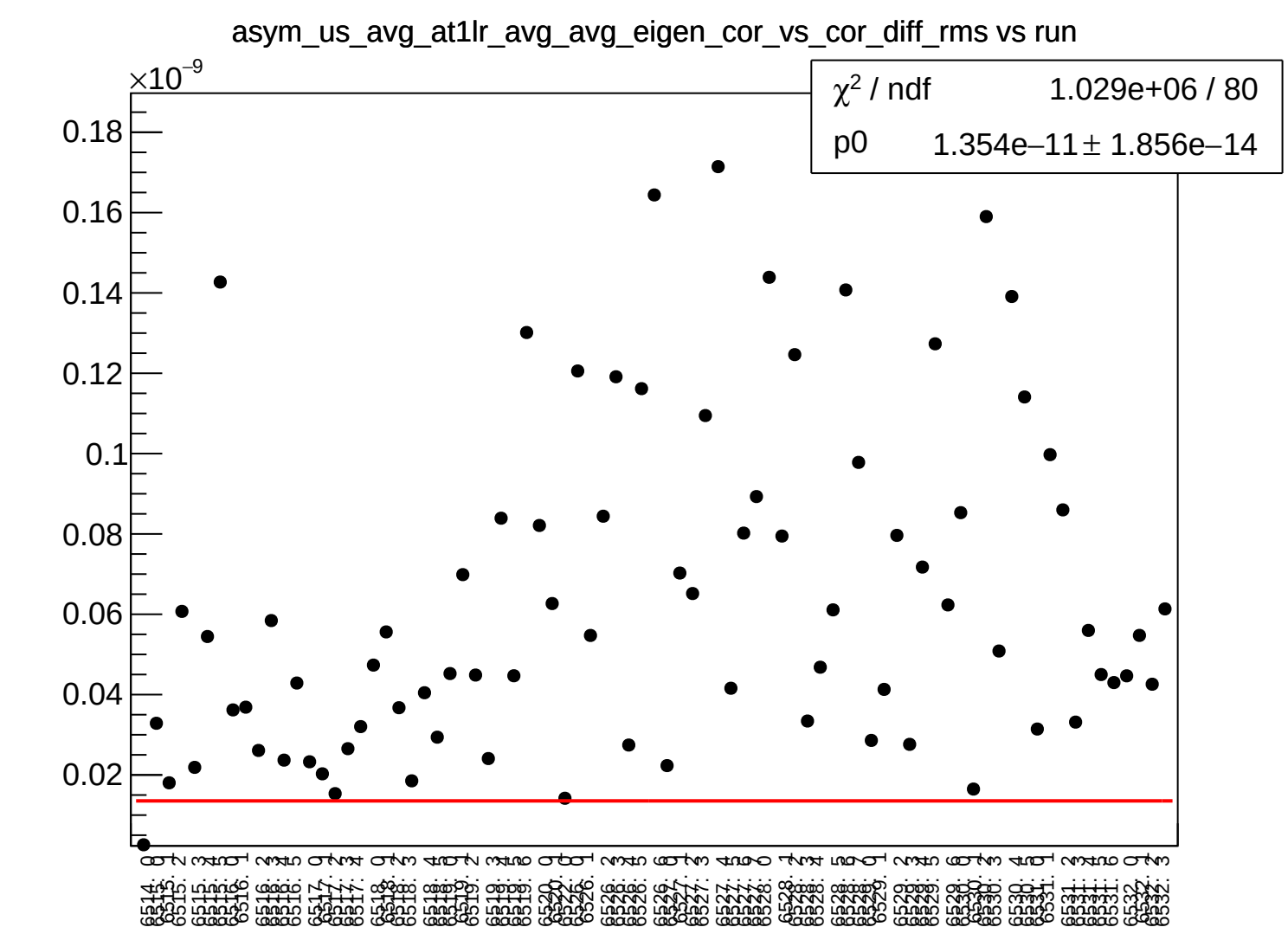

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.9 / 80
p0 0.3074 ± 0.1994
pull
Entries 81
Mean −152.5
Std Dev 0
pull1D
Entries 81
Mean −0.04801
Std Dev 1.137

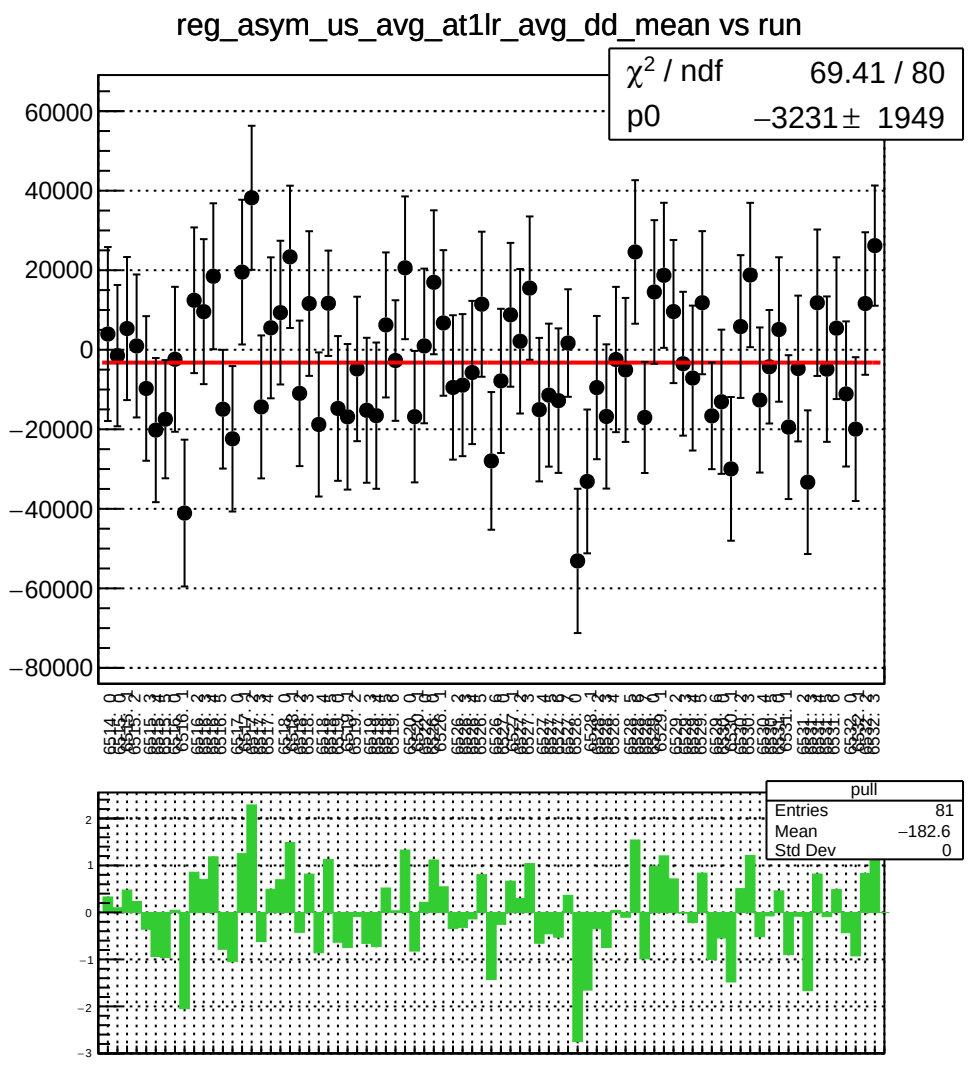

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.501e+05 / 80
p0 167.5 ± 0.141
600
500
400
300
200
100

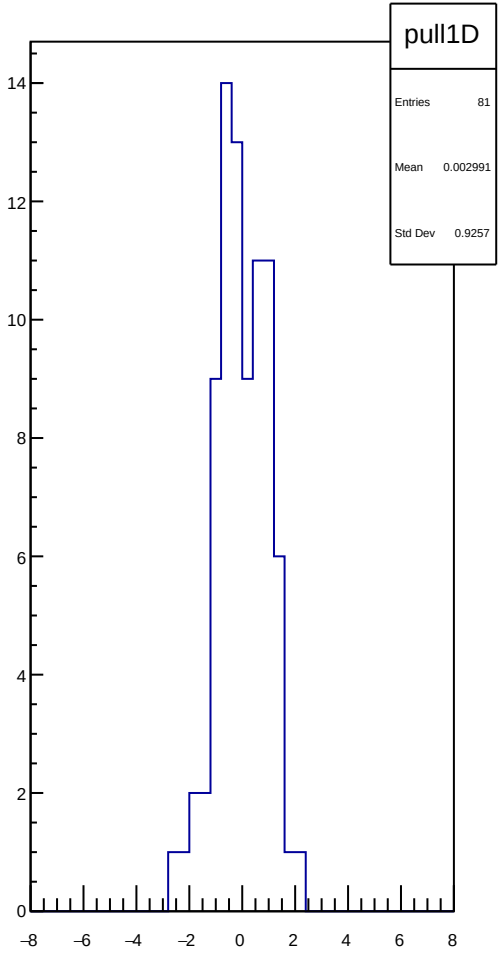

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.9 / 80
p0 0.3074 ± 0.1994
pull
Entries 81
Mean −152.5
Std Dev 0
pull1D
Entries 81
Mean −0.04801
Std Dev 1.137

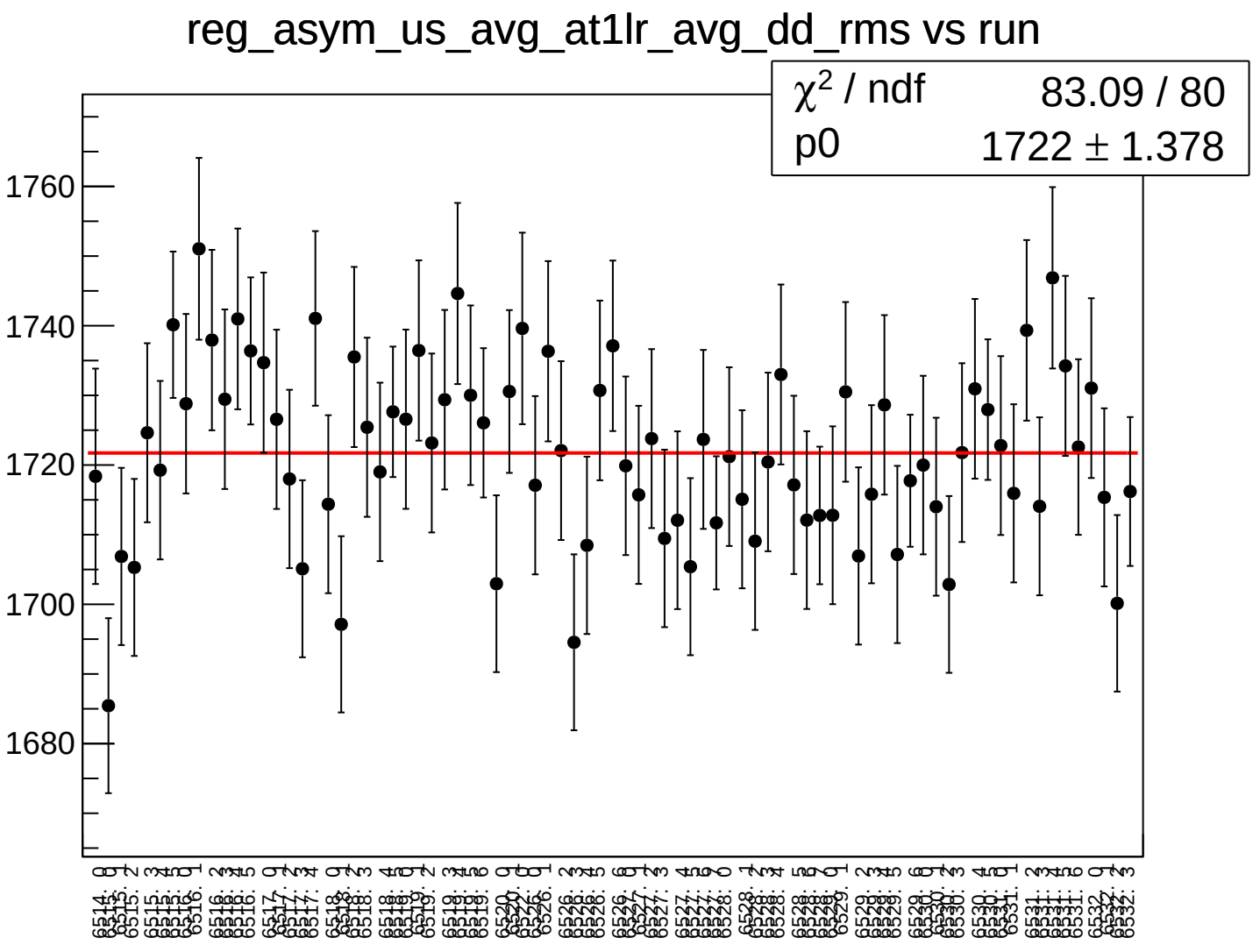

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.501e+05 / 80
p0 167.5 ± 0.141
600
500
400
300
200
100

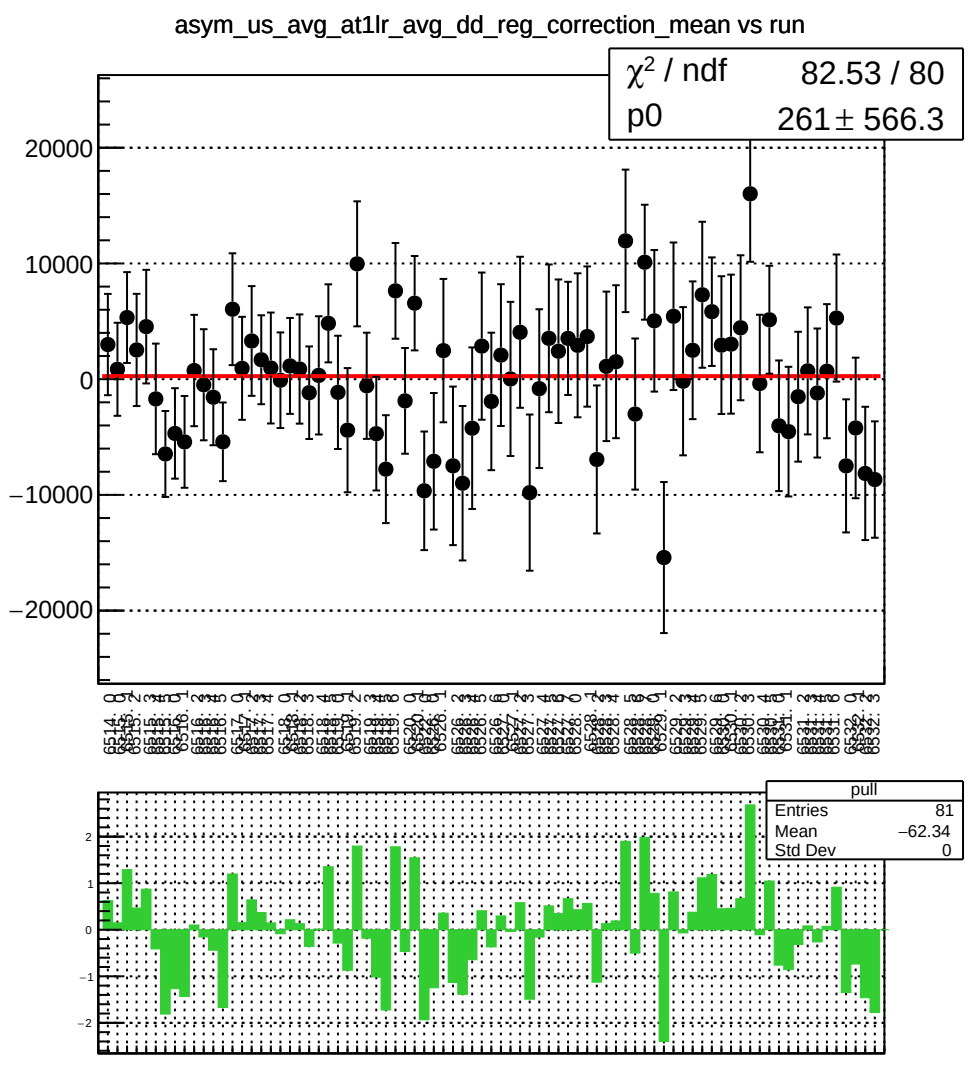

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.38 / 80
p0 1.642e−14 ± 2.625e−14
pull
Entries 81
Mean 107
Std Dev 0
pull1D
Entries 81
Mean 0.06321
Std Dev 1.019

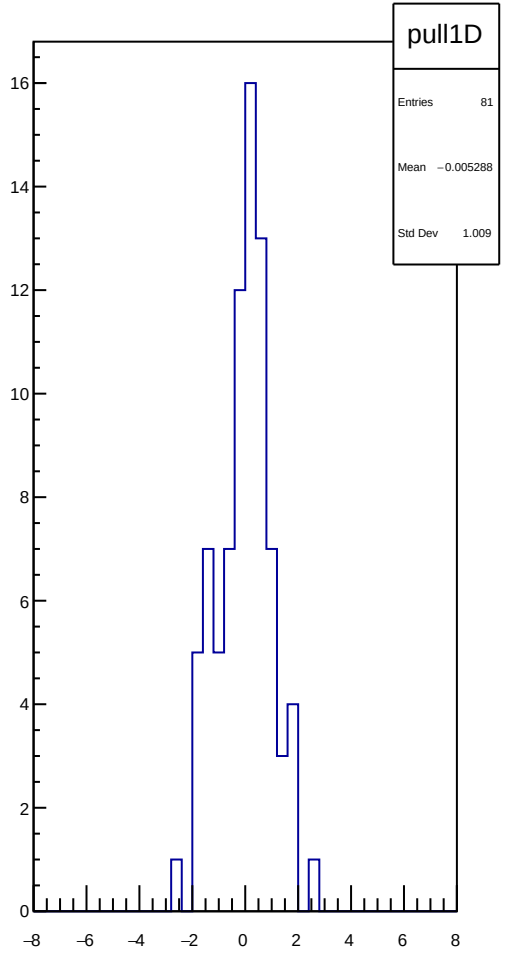

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.029e+06 / 80
p0 1.354e−11 ± 1.856e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

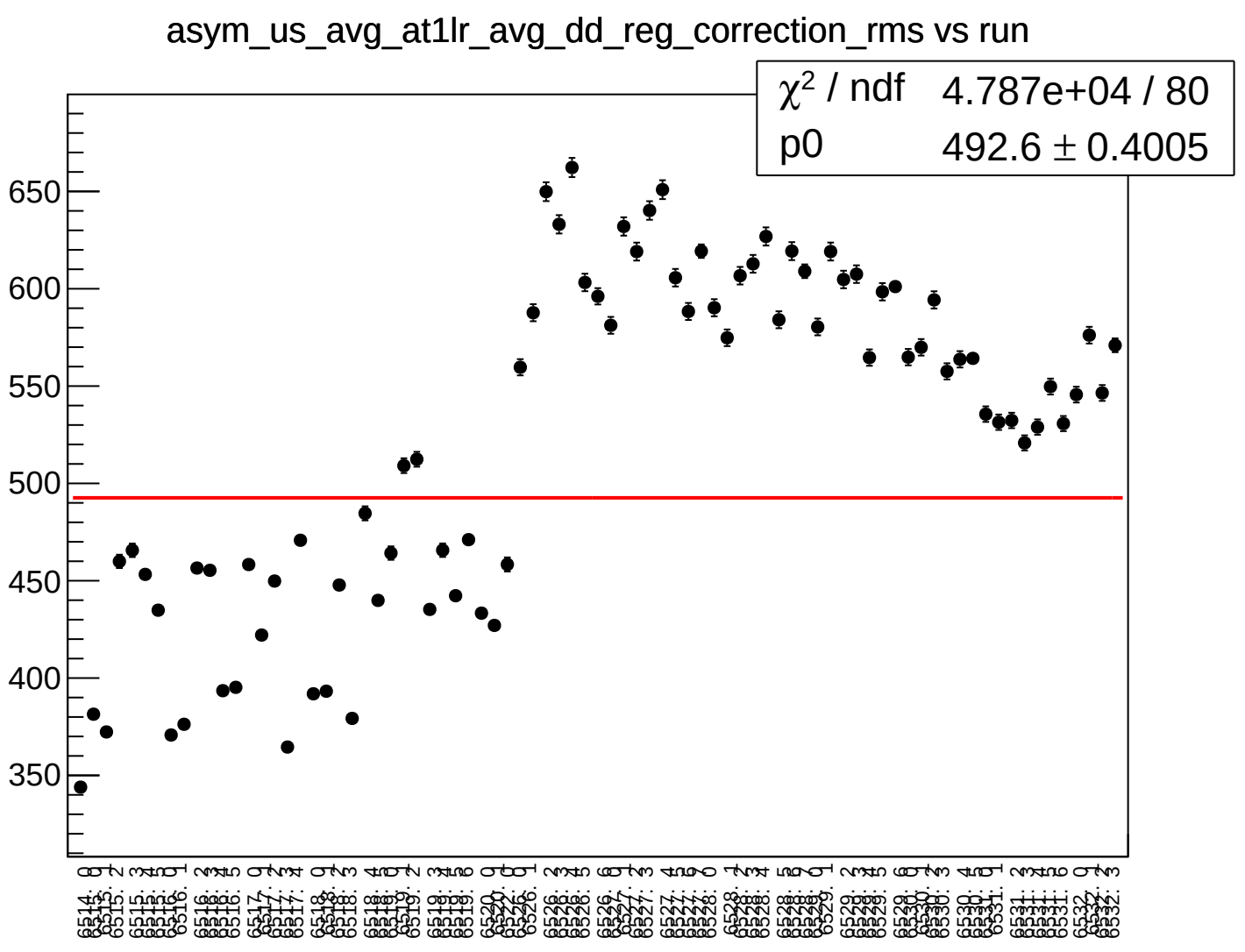

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 69.41 / 80
p0 −3231 ± 1949
pull
Entries 81
Mean −182.6
Std Dev 0

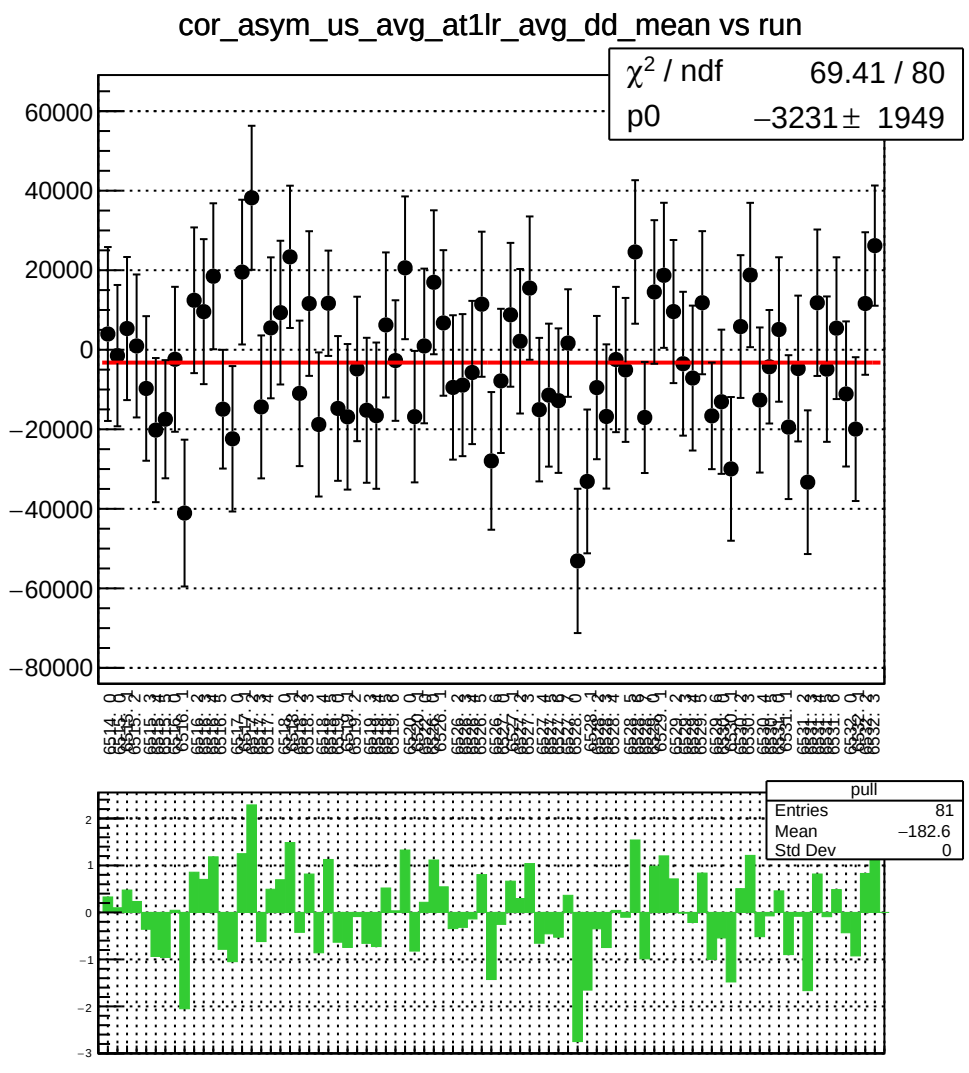

pull1D
Entries 81
Mean 0.002991
Std Dev 0.9257

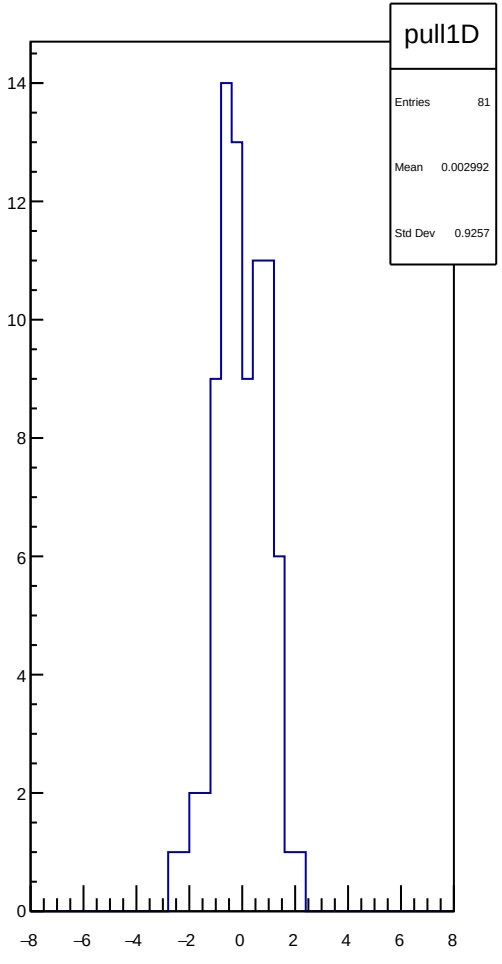

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 83.09 / 80
p0 1722 ± 1.378
1760
1740
1720
1700
1680

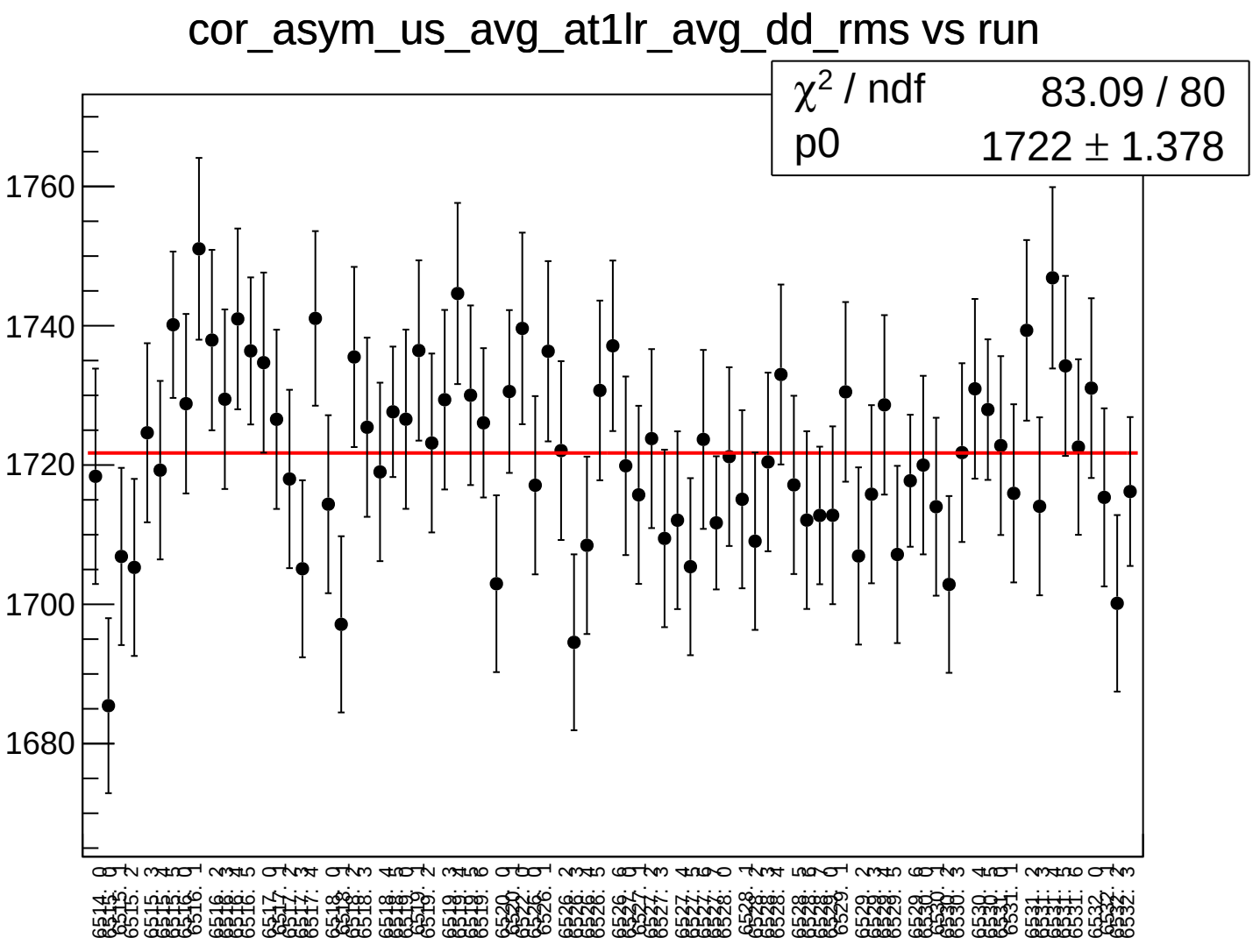

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 82.53 / 80
p0 261 ± 566.3
20000
10000
0
−10000
−20000
pull
Entries 81
Mean −62.34
Std Dev 0
2
1
0
−1
−2

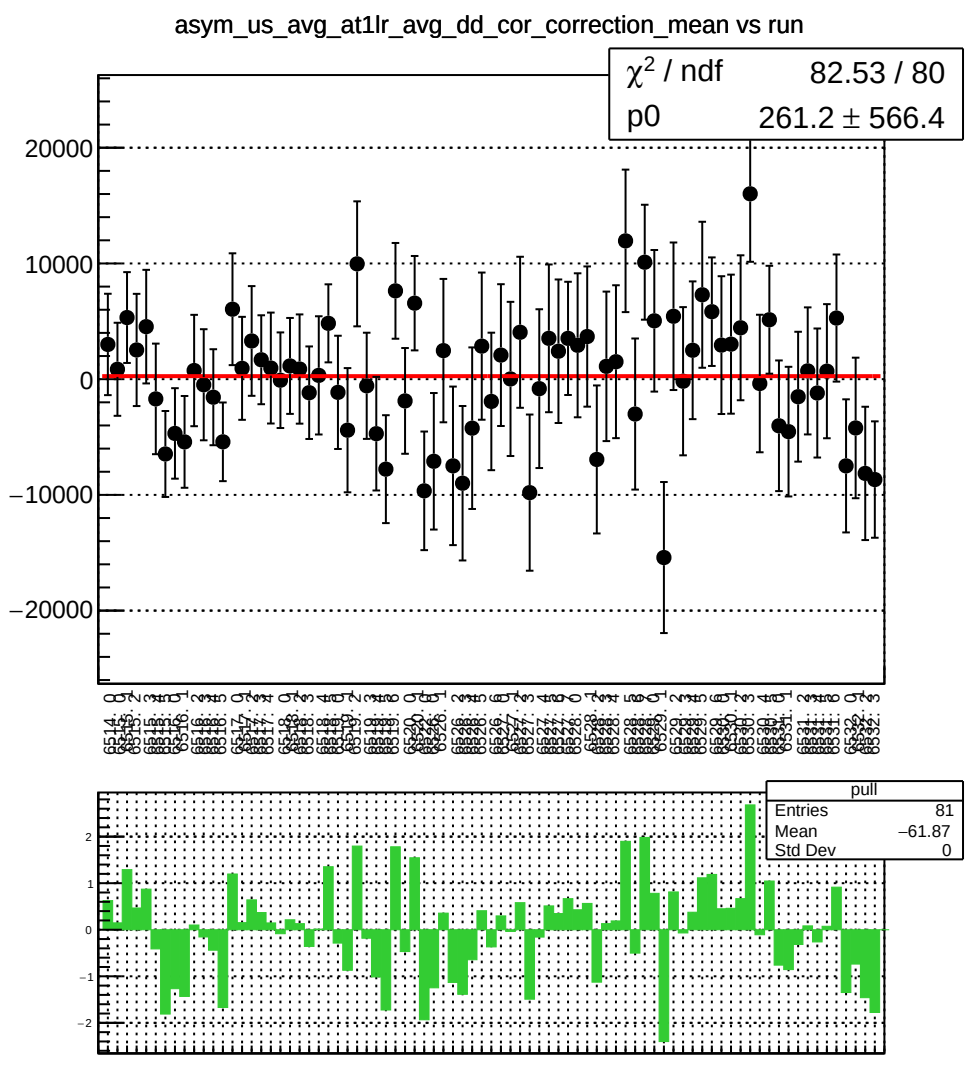

pull1D
Entries 81
Mean −0.005288
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

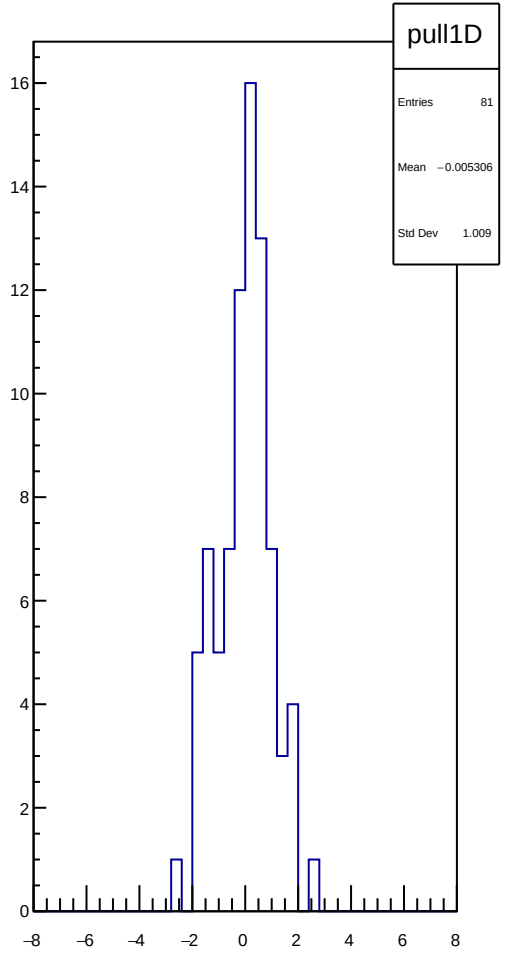

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 4.787e+04 / 80
p0 492.6 ± 0.4005
650
600
550
500
450
400
350

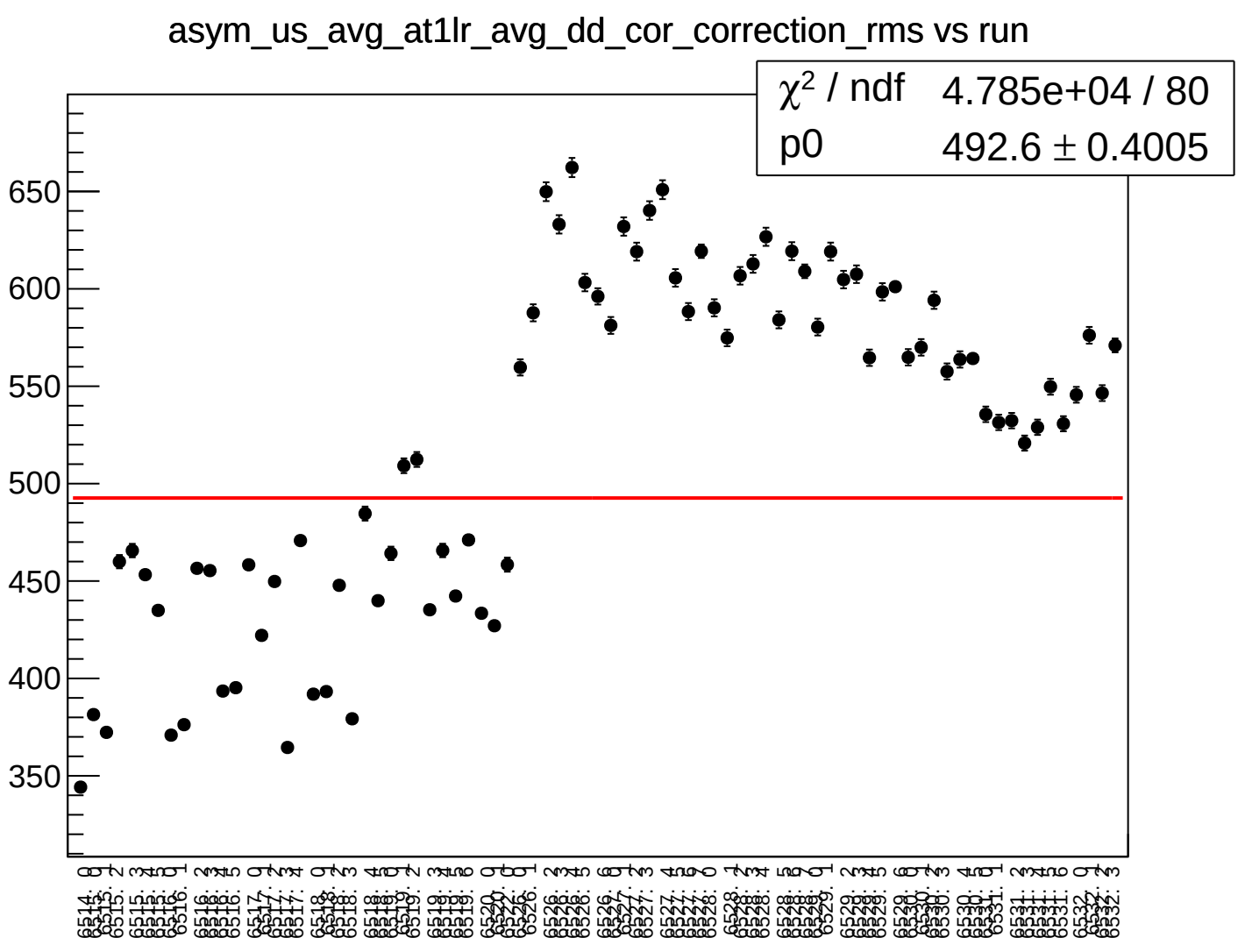

cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 69.41 / 80
p0 −3231 ± 1949
pull
Entries 81
Mean −182.6
Std Dev 0

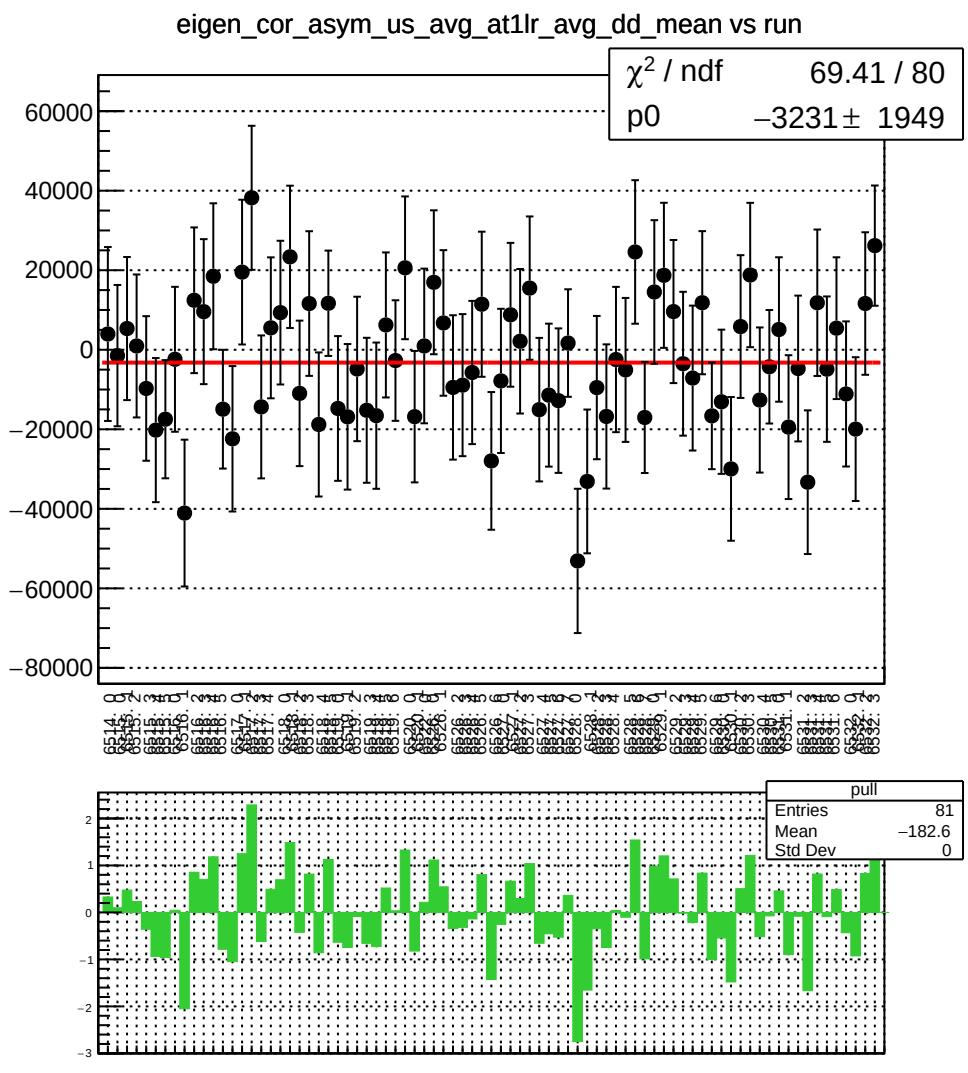

pull1D
Entries 81
Mean 0.002992
Std Dev 0.9257

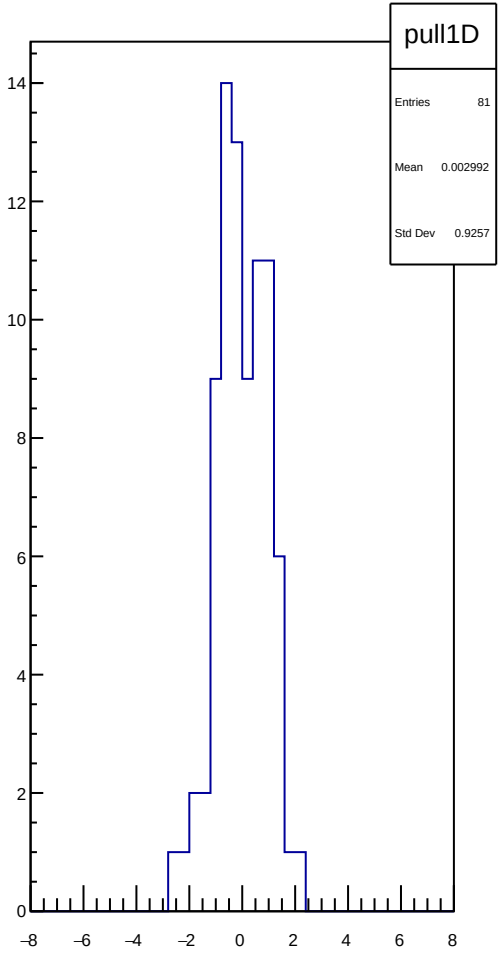

cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 83.09 / 80
p0 1722 ± 1.378
1760
1740
1720
1700
1680

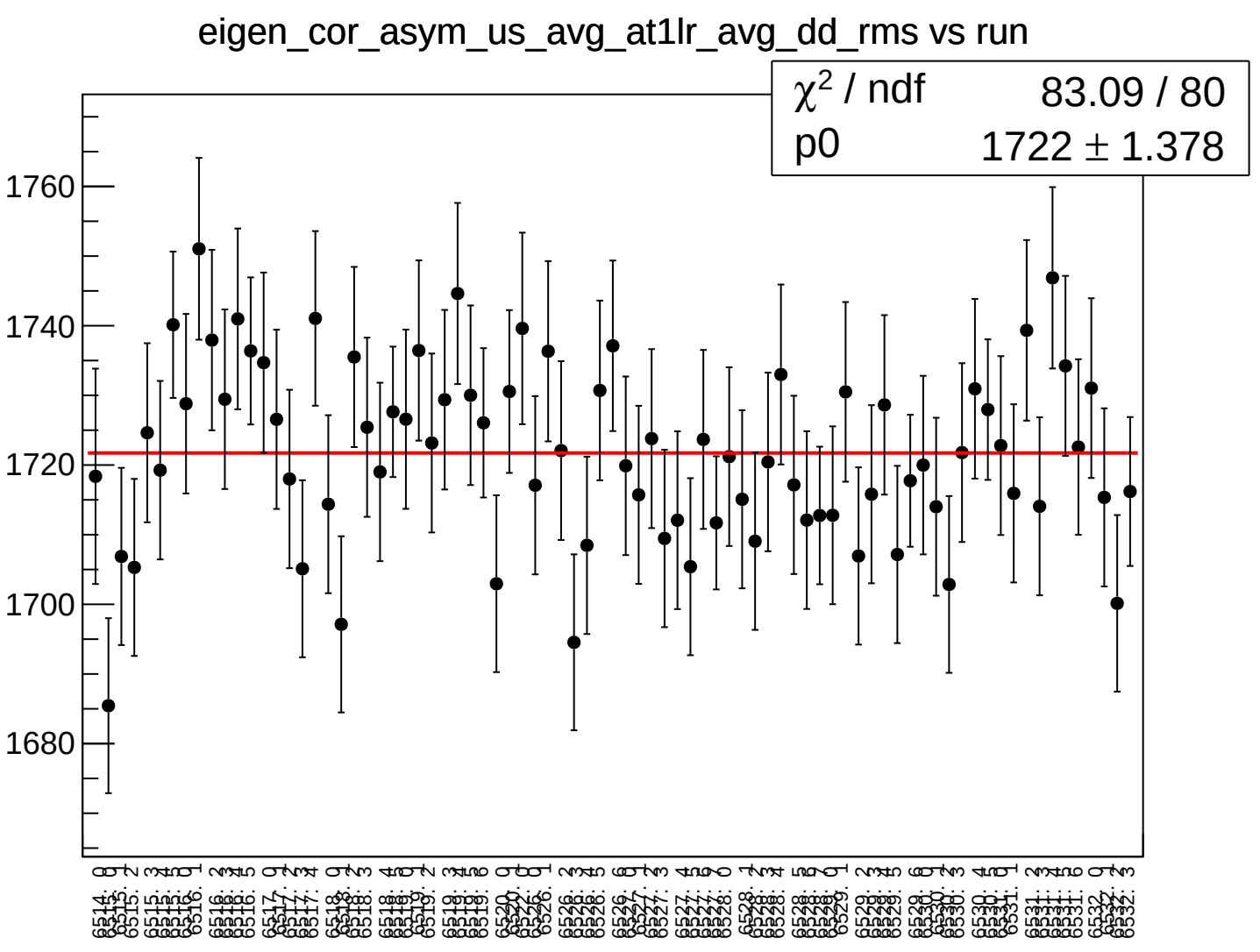

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 82.53 / 80
p0 261.2 ± 566.4
20000
10000
0
−10000
−20000
pull
Entries 81
Mean −61.87
Std Dev 0
2
1
0
−1
−2

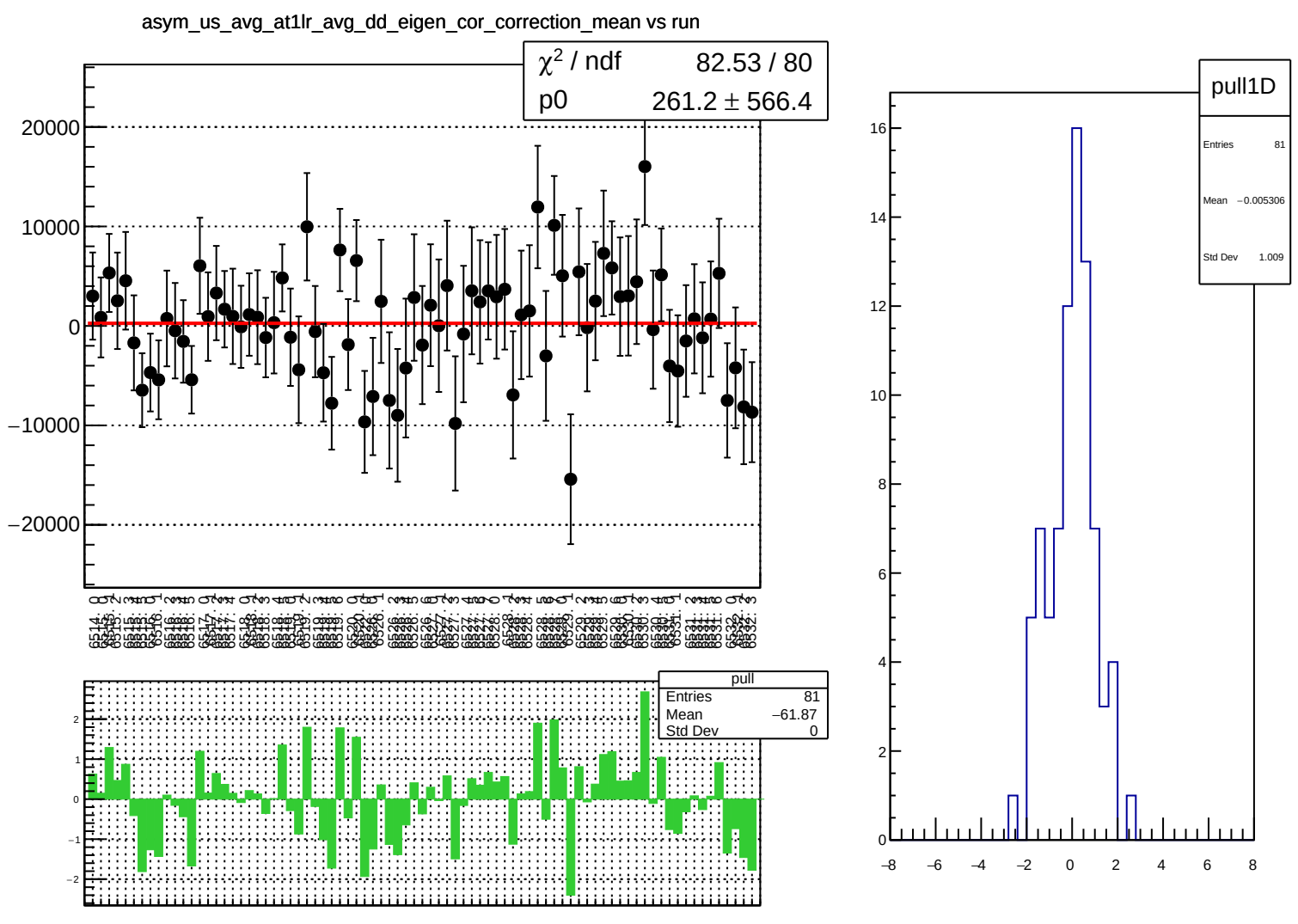

pull1D
Entries 81
Mean −0.005306
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

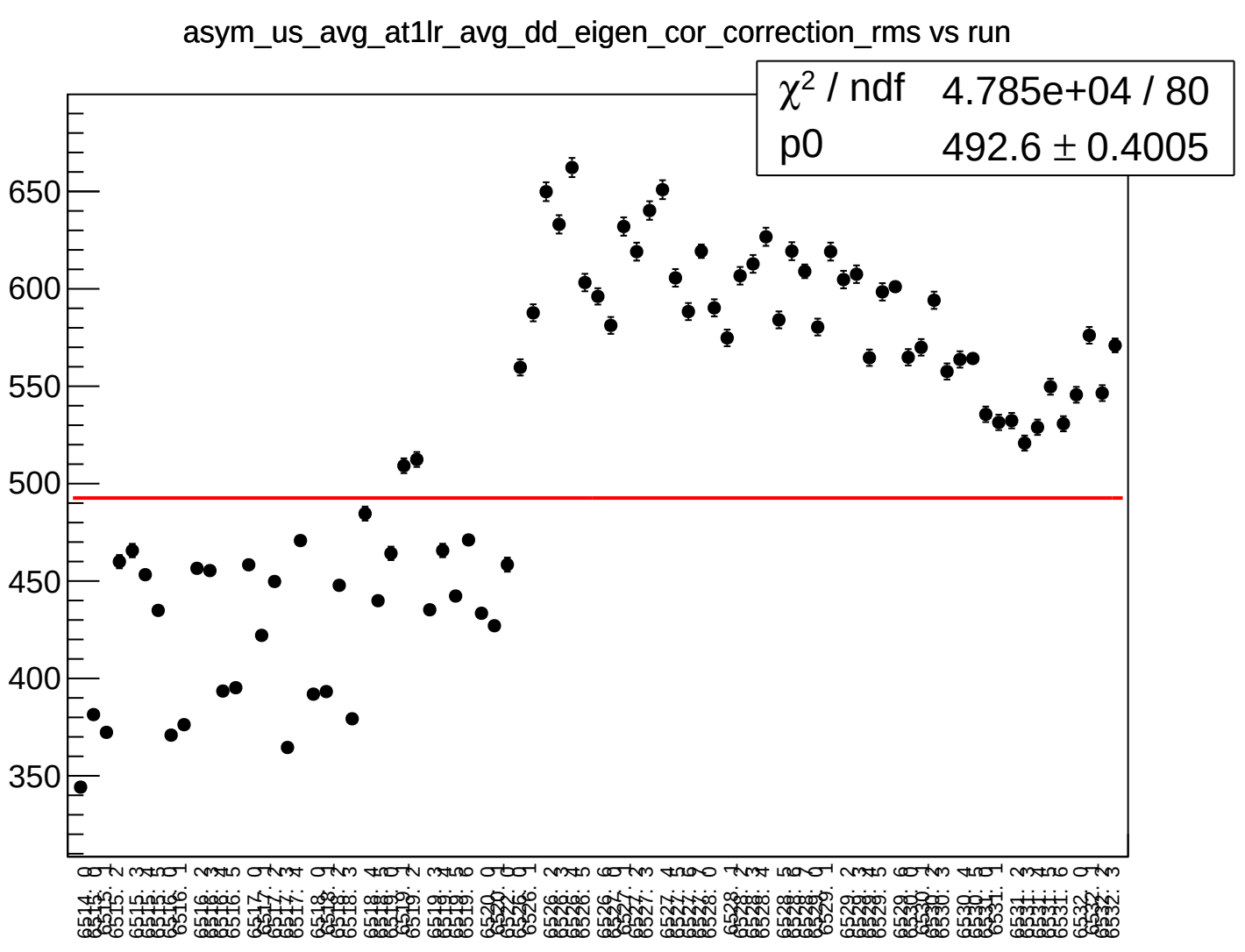

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ² / ndf 4.785e+04 / 80
p0 492.6 ± 0.4005
650
600
550
500
450
400
350

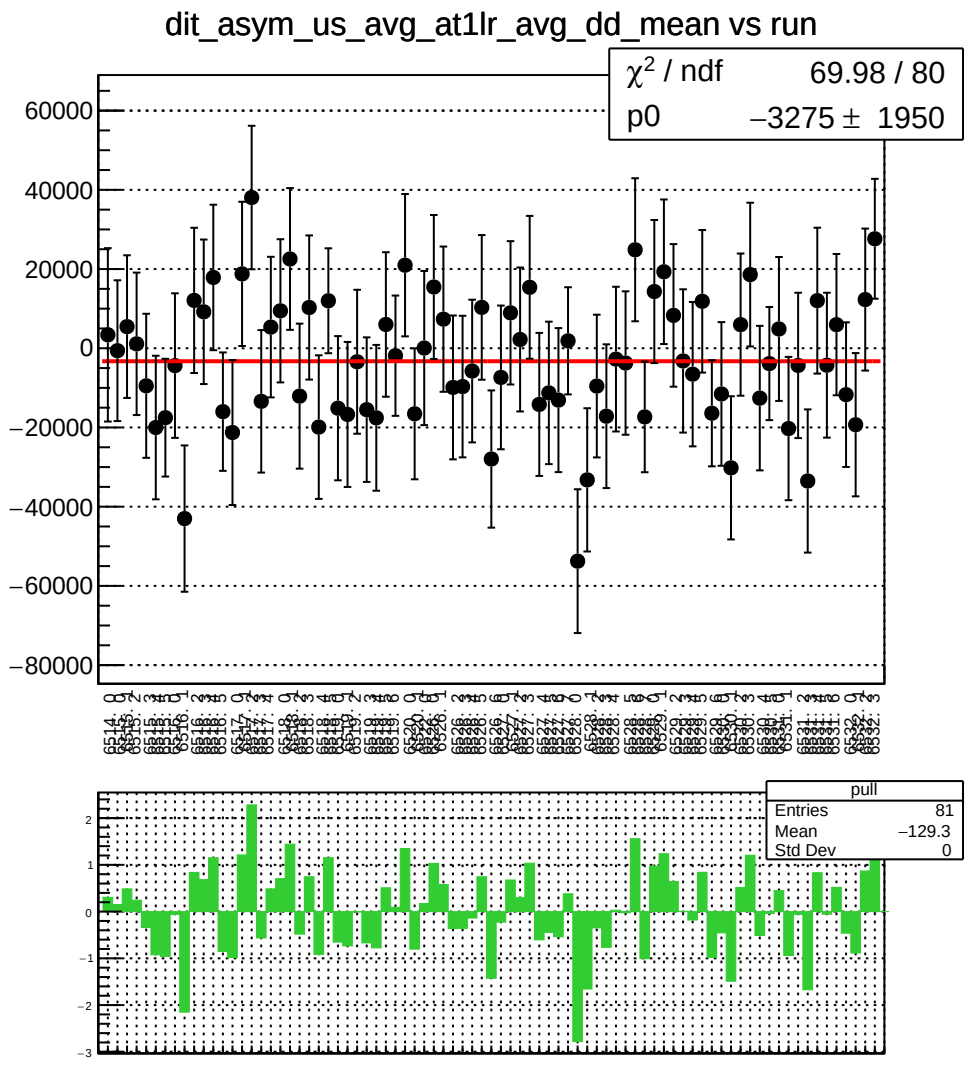

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 69.41 / 80
p0 −3231 ± 1949
pull
Entries 81
Mean −182.6
Std Dev 0

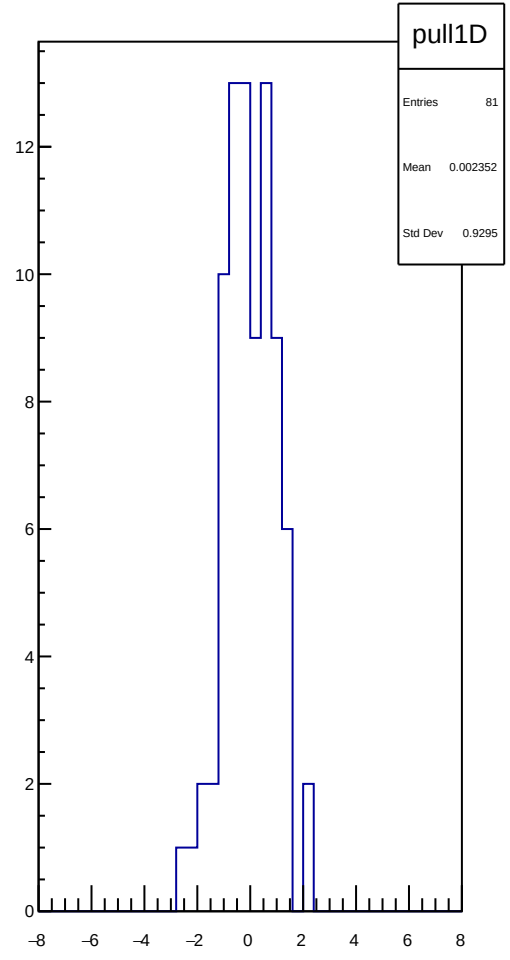

pull1D
Entries 81
Mean 0.002992
Std Dev 0.9257

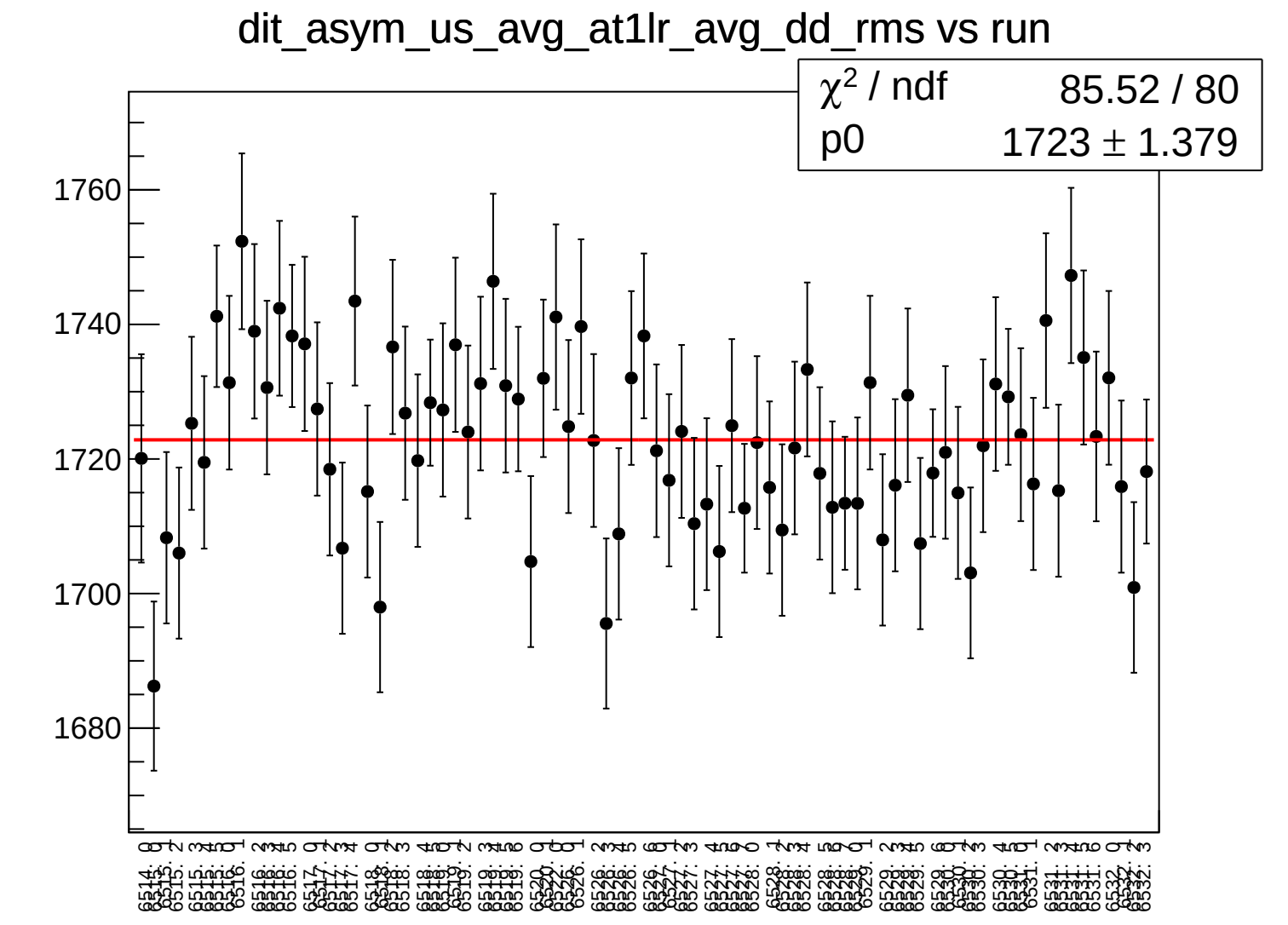

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 83.09 / 80
p0 1722 ± 1.378
1760
1740
1720
1700
1680

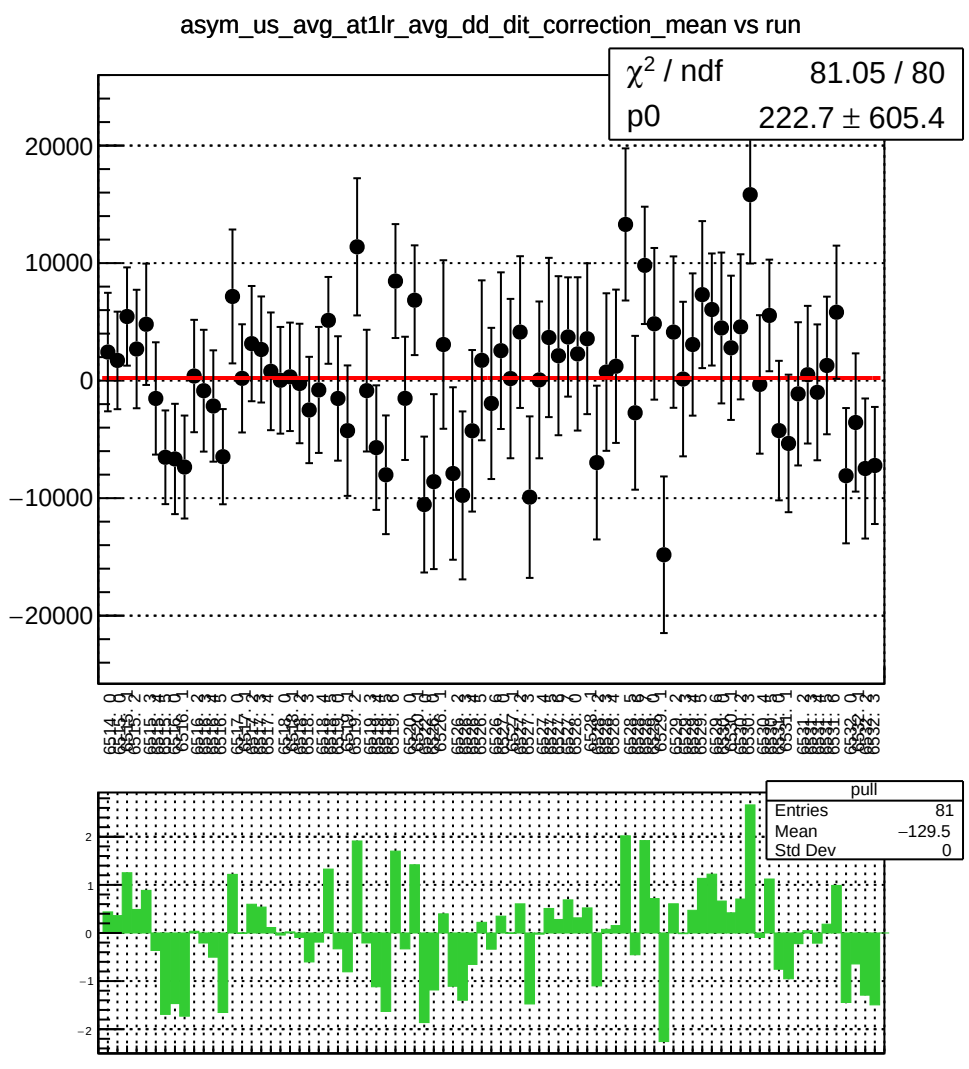

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 82.53 / 80
p0 261.2 ± 566.4
20000
10000
0
−10000
−20000
pull
Entries 81
Mean −61.87
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 81
Mean −0.005306
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

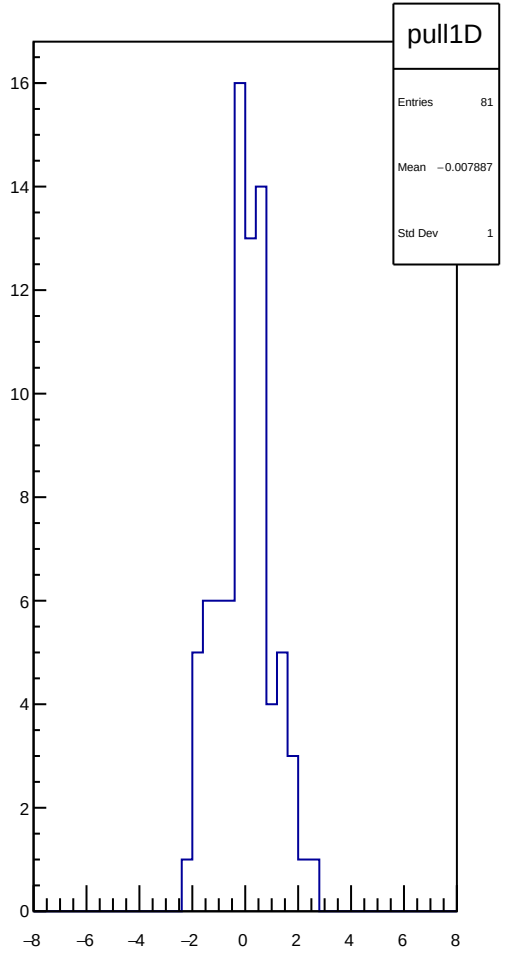

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 4.785e+04 / 80
p0 492.6 ± 0.4005
650
600
550
500
450
400
350

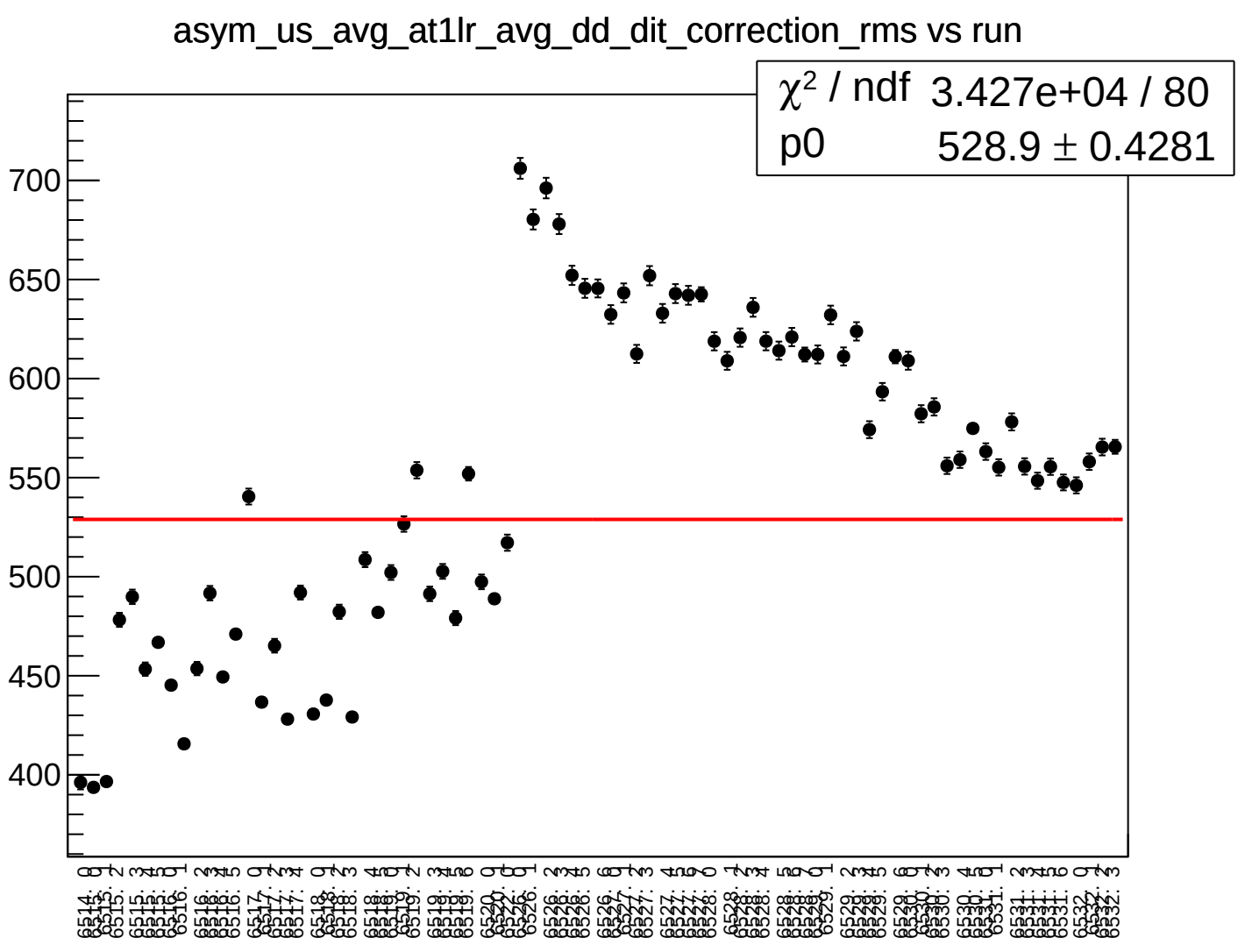

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 69.98 / 80
p0 −3275 ± 1950
pull
Entries 81
Mean −129.3
Std Dev 0

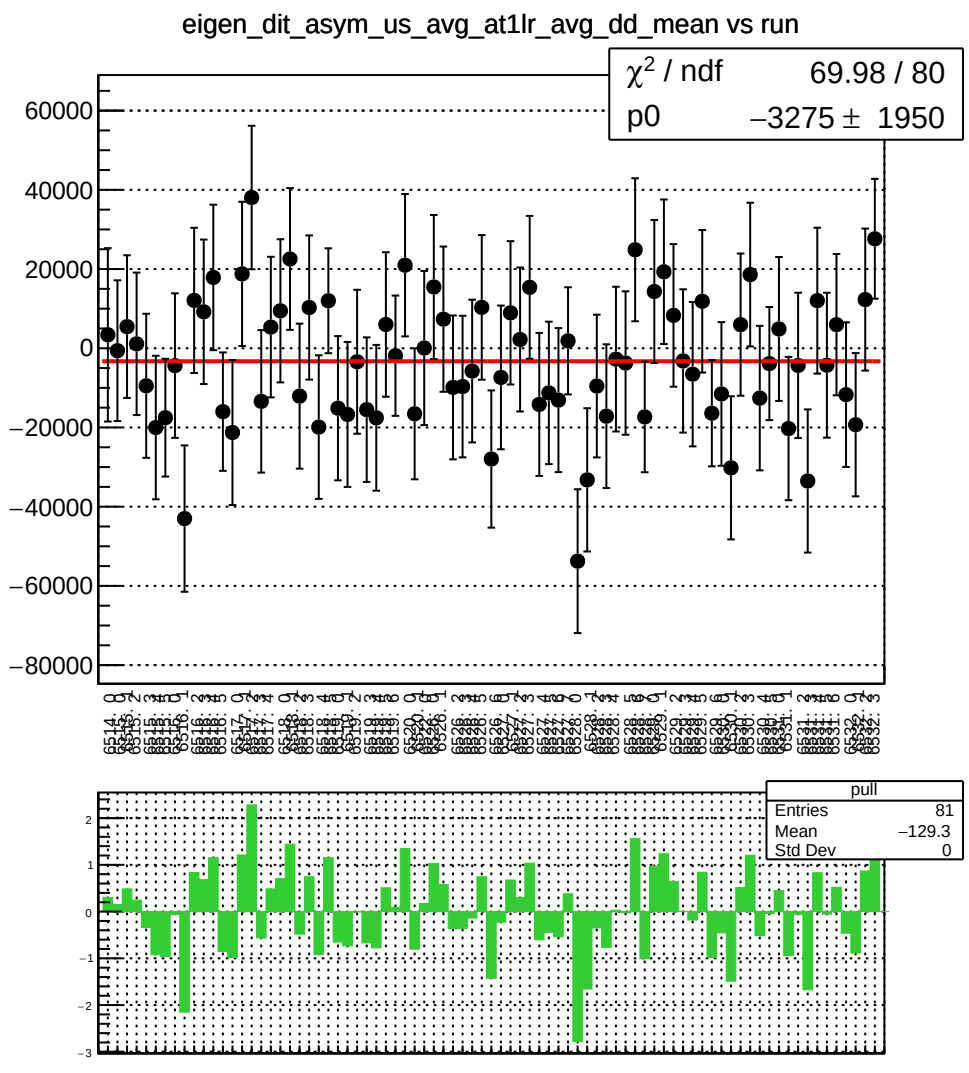

pull1D
Entries 81
Mean 0.002352
Std Dev 0.9295

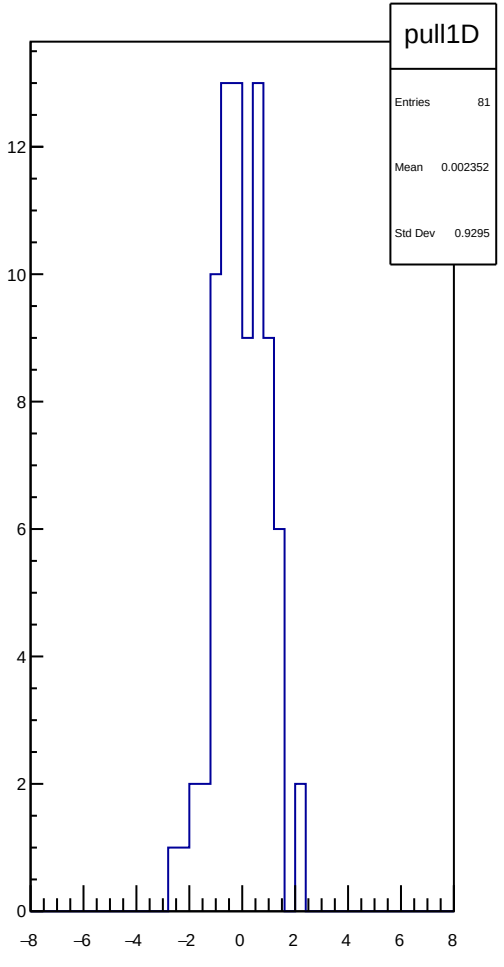

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 85.52 / 80
p0 1723 ± 1.379
1760
1740
1720
1700
1680

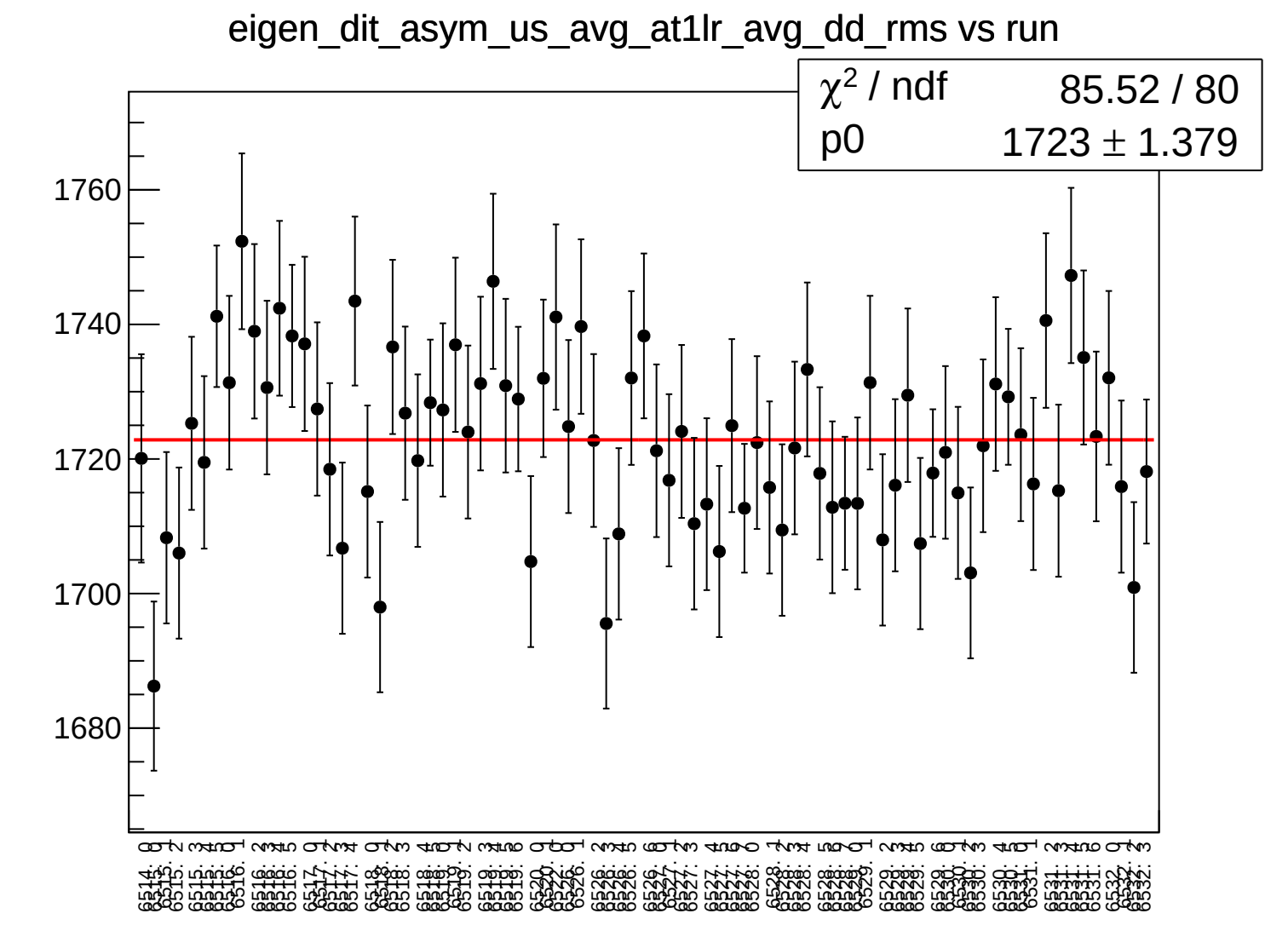

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 81.05 / 80
p0 222.7 ± 605.4
20000
10000
0
−10000
−20000
pull
Entries 81
Mean −129.5
Std Dev 0
2
1
0
−1
−2

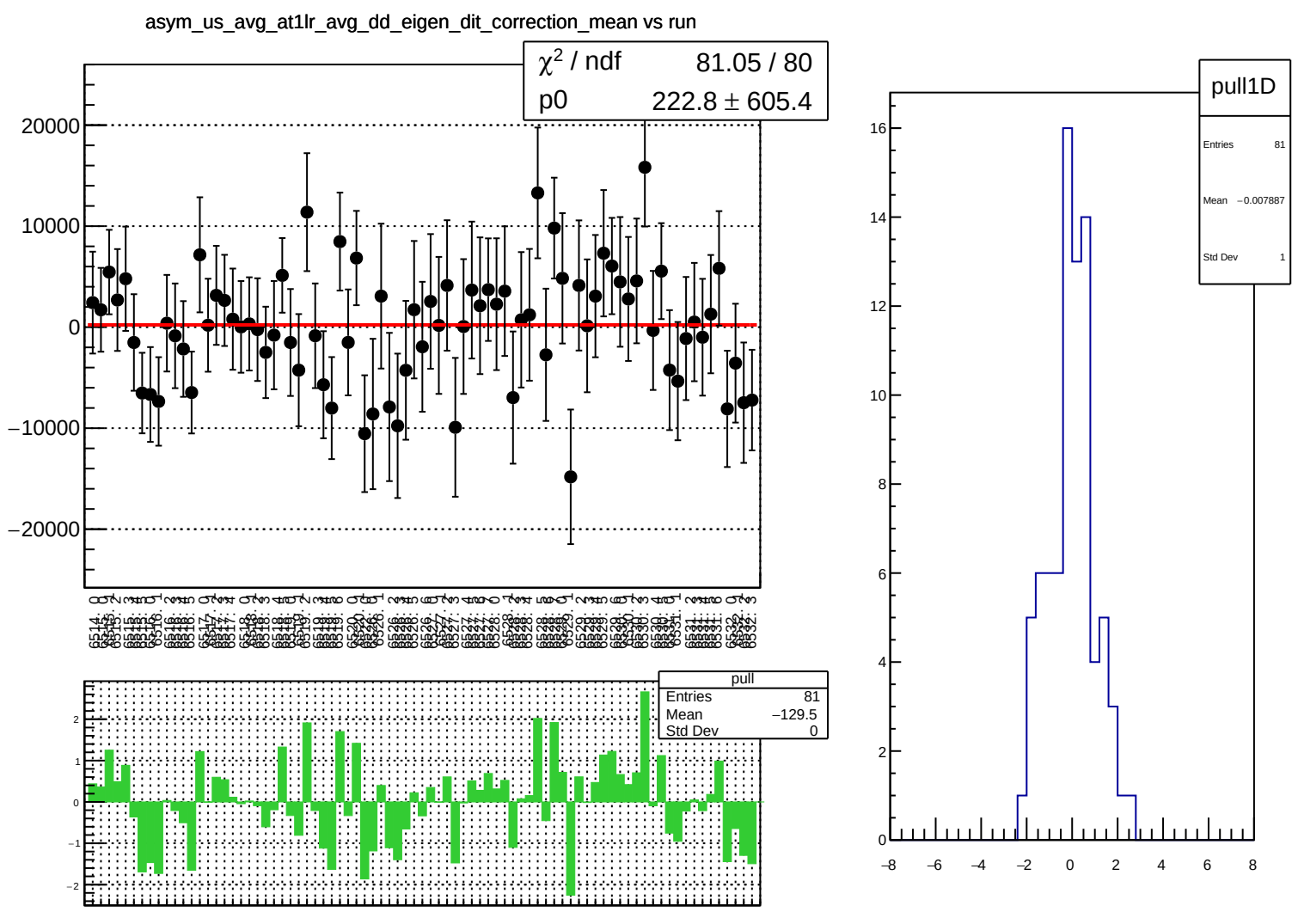

pull1D
Entries 81
Mean −0.007887
Std Dev 1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

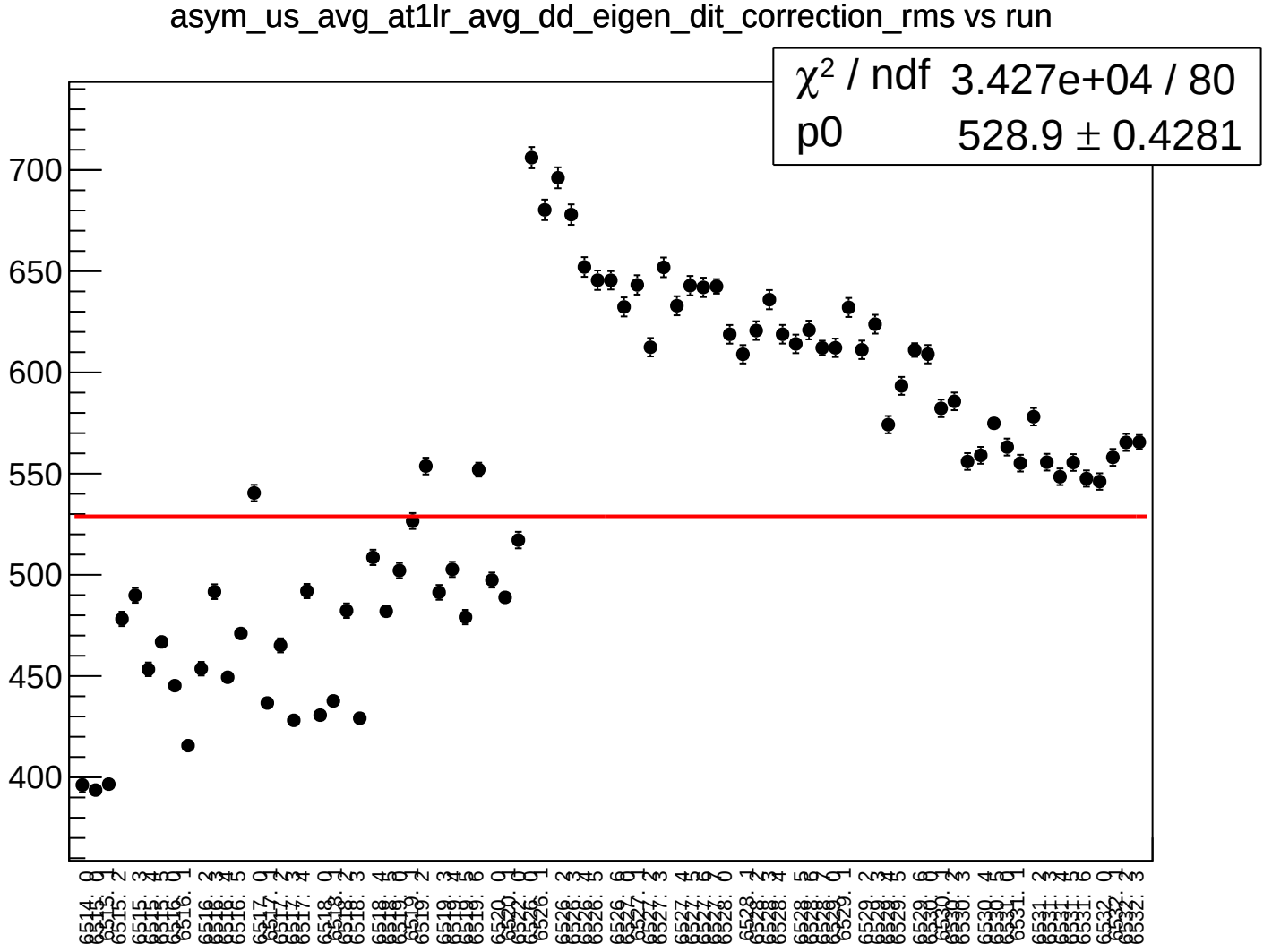

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 3.427e+04 / 80
p0 528.9 ± 0.4281
700
650
600
550
500
450
400

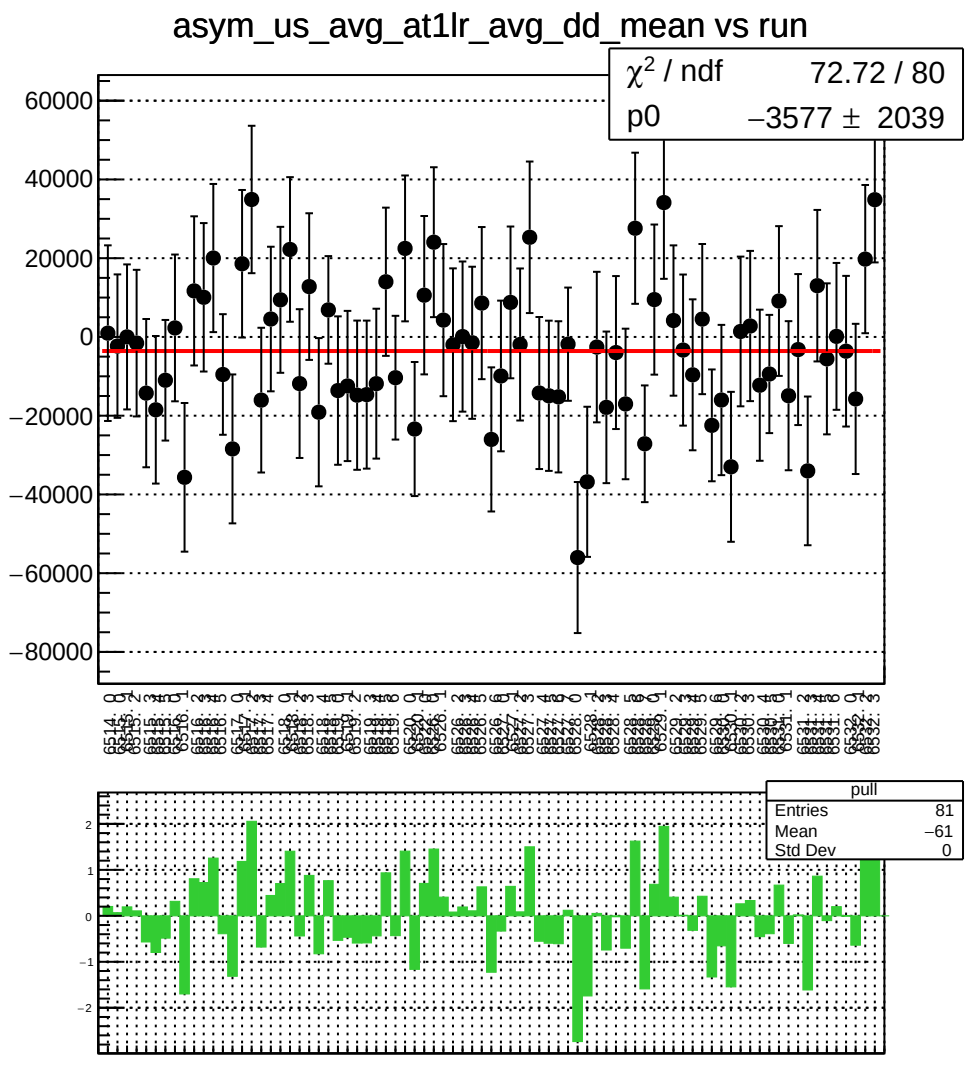

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 69.98 / 80
p0 −3275 ± 1950
pull
Entries 81
Mean −129.3
Std Dev 0

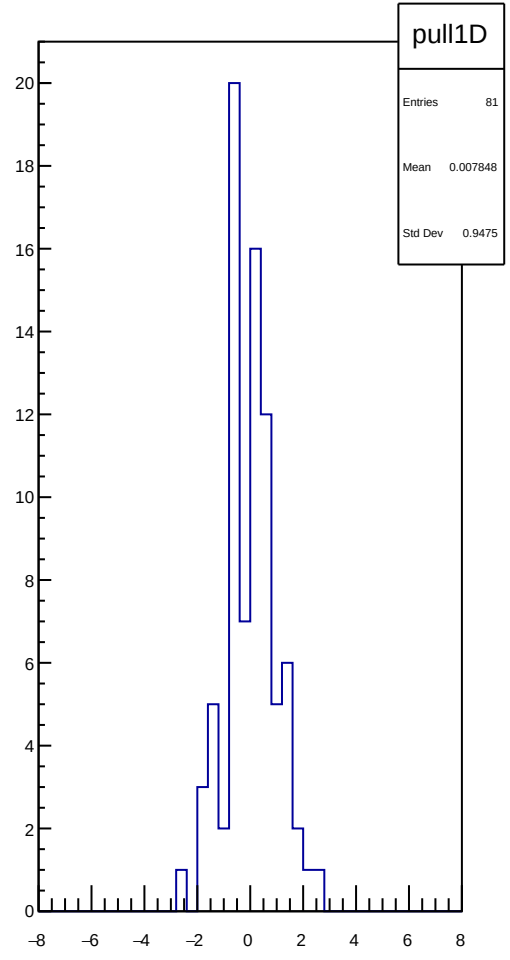

pull1D
Entries 81
Mean 0.002352
Std Dev 0.9295

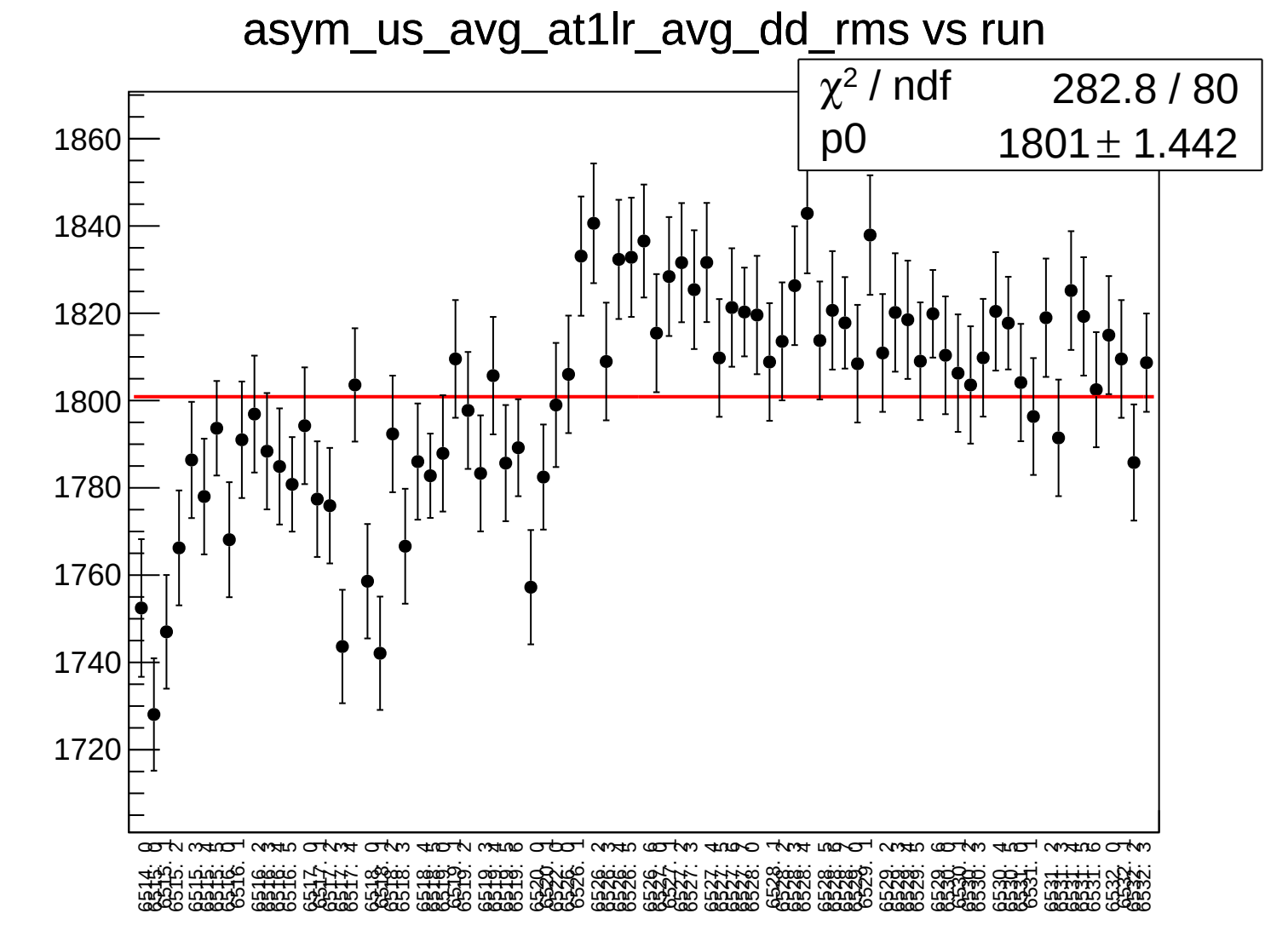

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 85.52 / 80
p0 1723 ± 1.379
1760
1740
1720
1700
1680

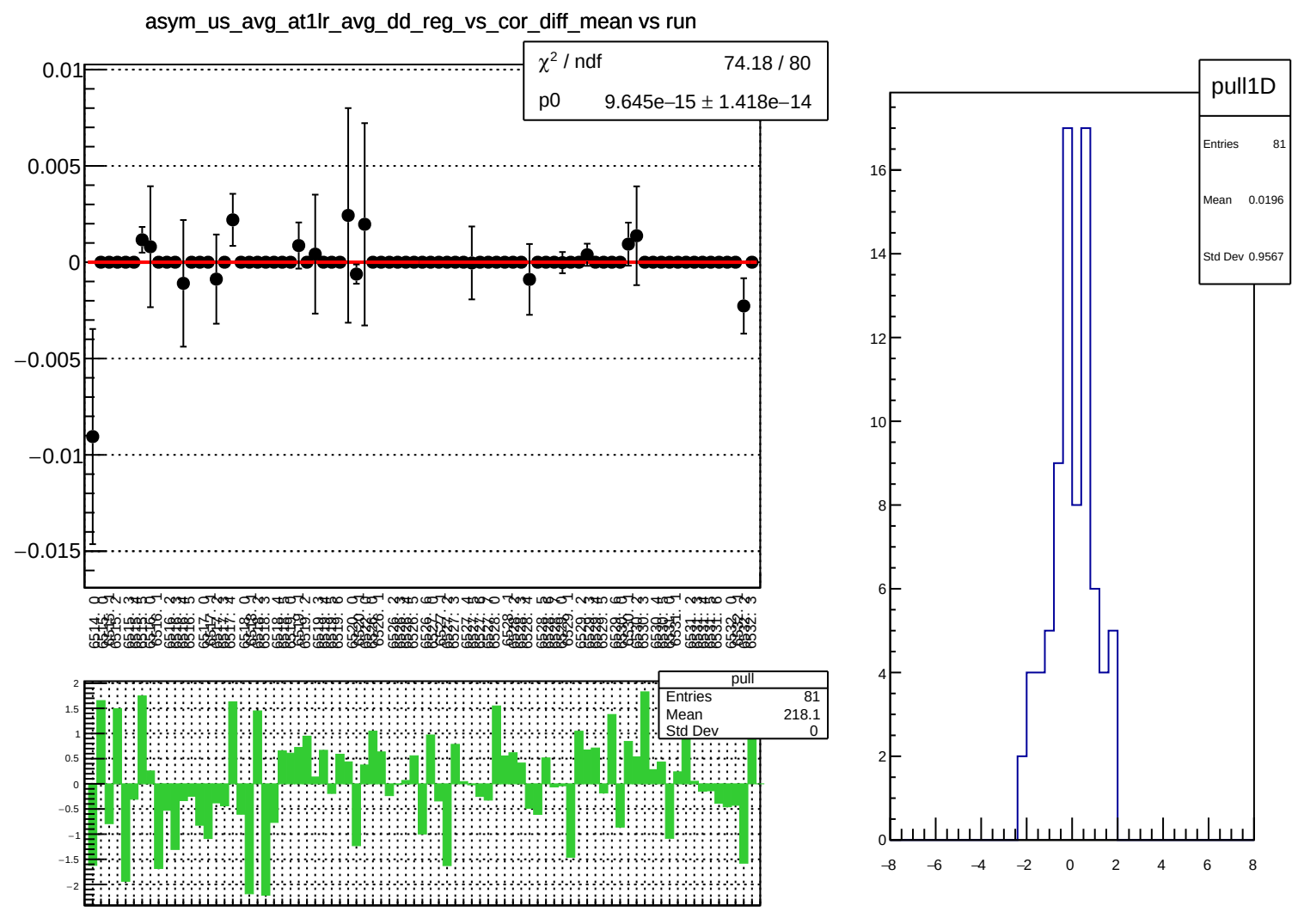

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 81.05 / 80
p0 222.8 ± 605.4
20000
10000
0
−10000
−20000
pull
Entries 81
Mean −129.5
Std Dev 0
pull1D
Entries 81
Mean −0.007887
Std Dev 1

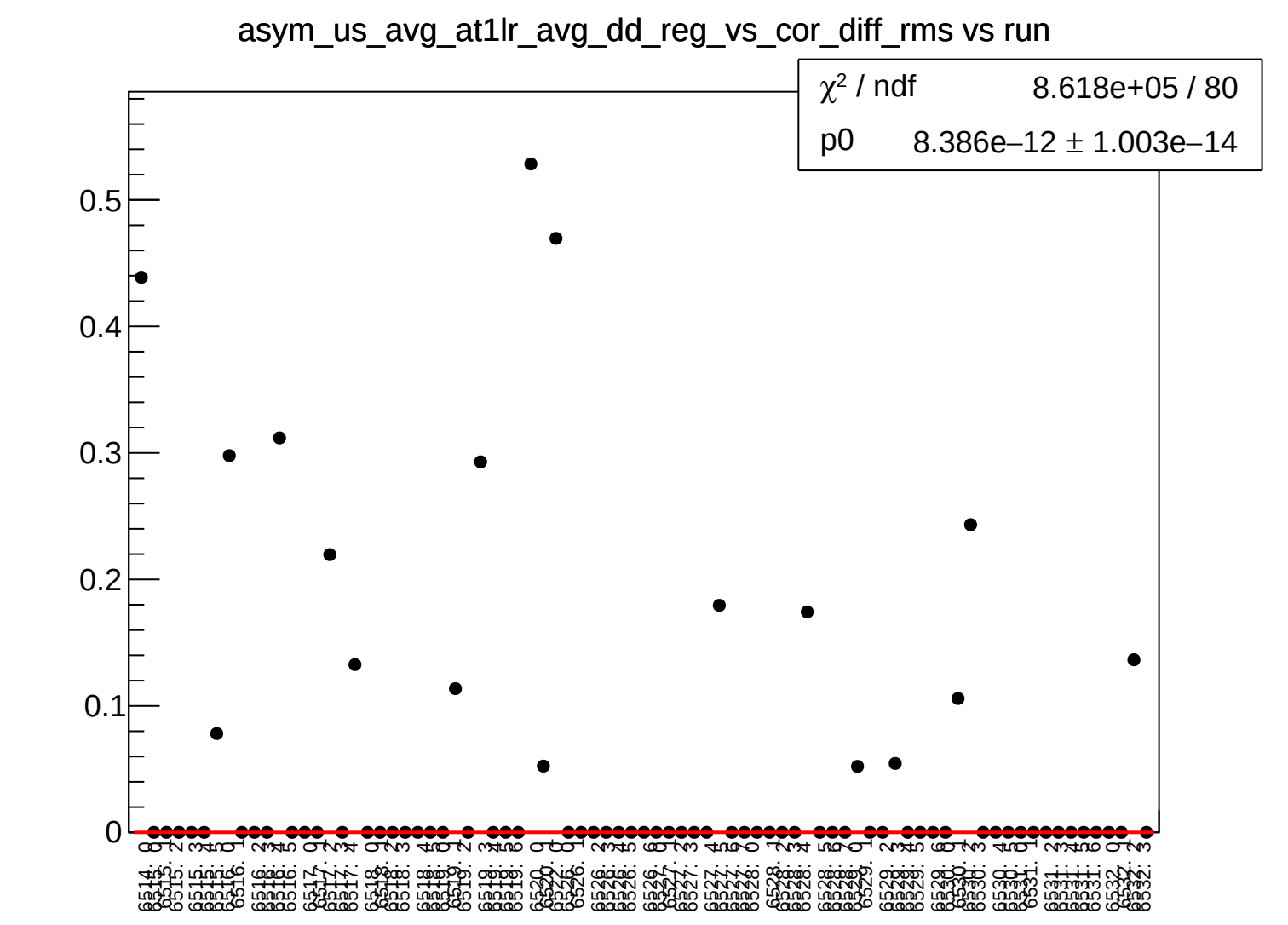

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.427e+04 / 80
p0 528.9 ± 0.4281
700
650
600
550
500
450
400

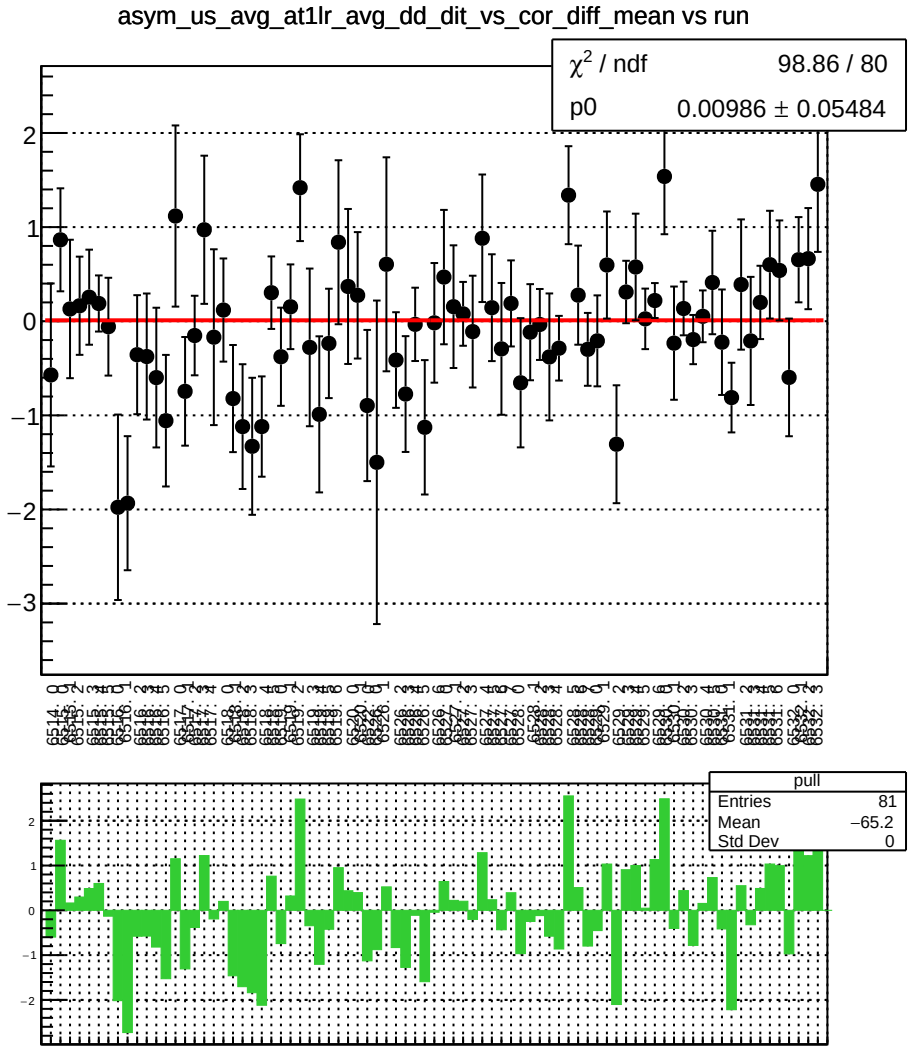

asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 72.72 / 80
p0 −3577 ± 2039
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 81
Mean −61
Std Dev 0
2
1
0
−1
−2

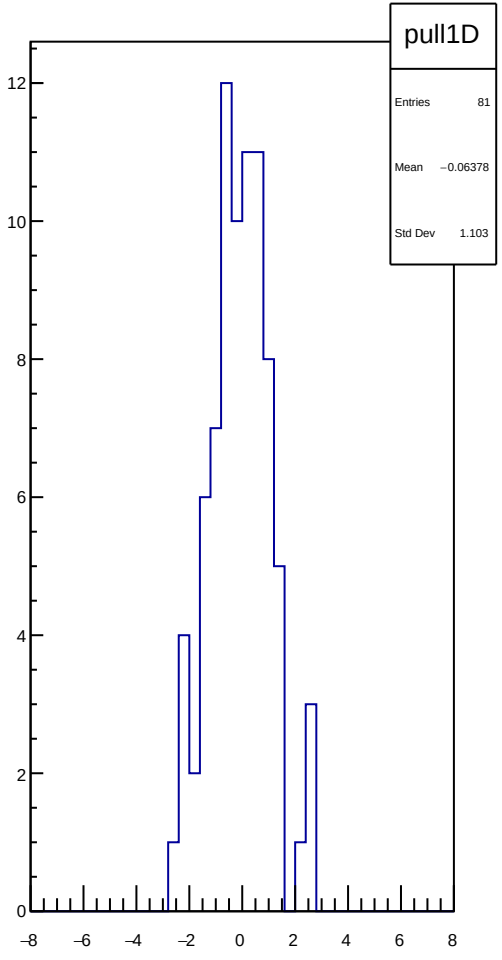

pull1D
Entries 81
Mean 0.007848
Std Dev 0.9475
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

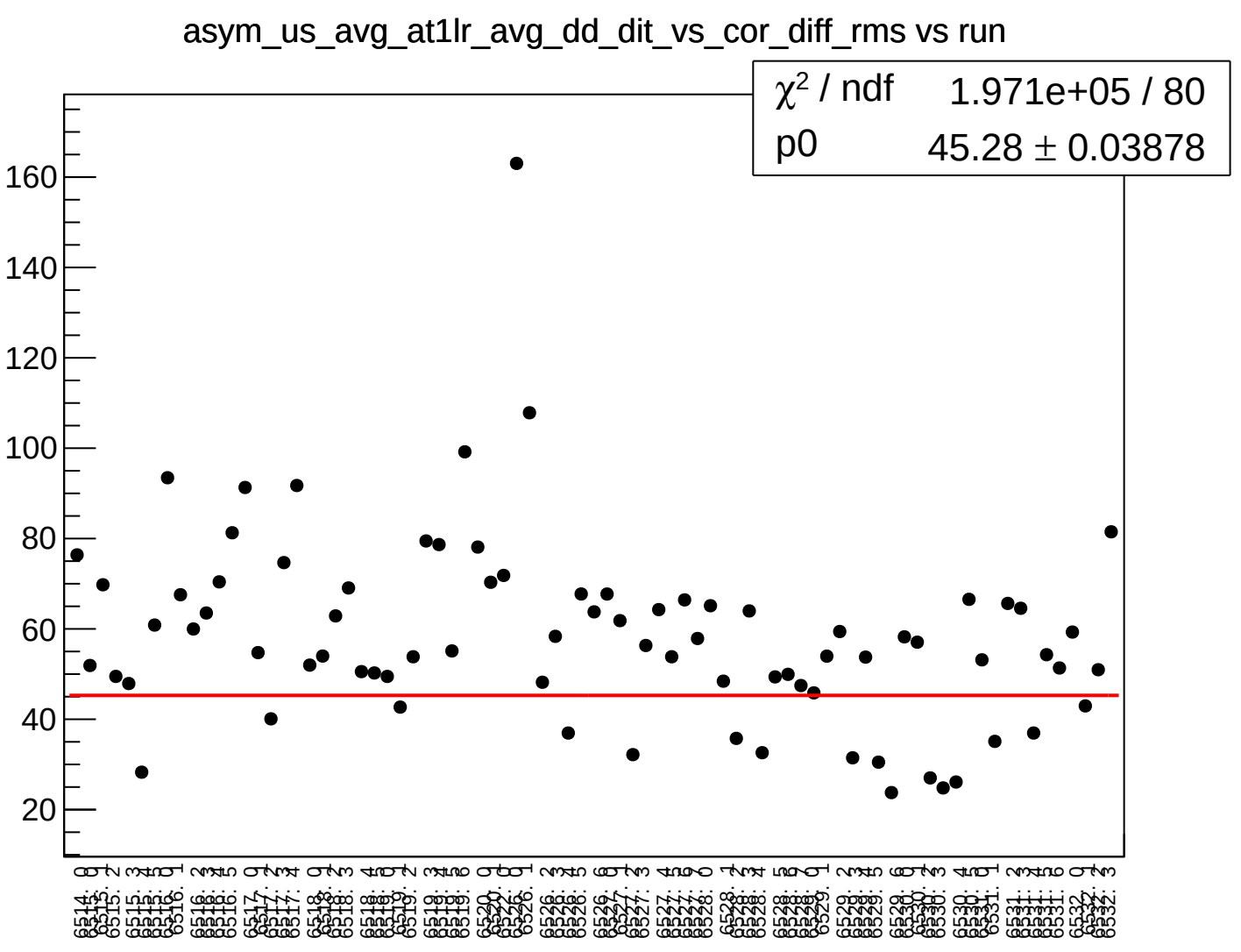

asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 282.8 / 80
p0 1801 ± 1.442
1860
1840
1820
1800
1780
1760
1740
1720

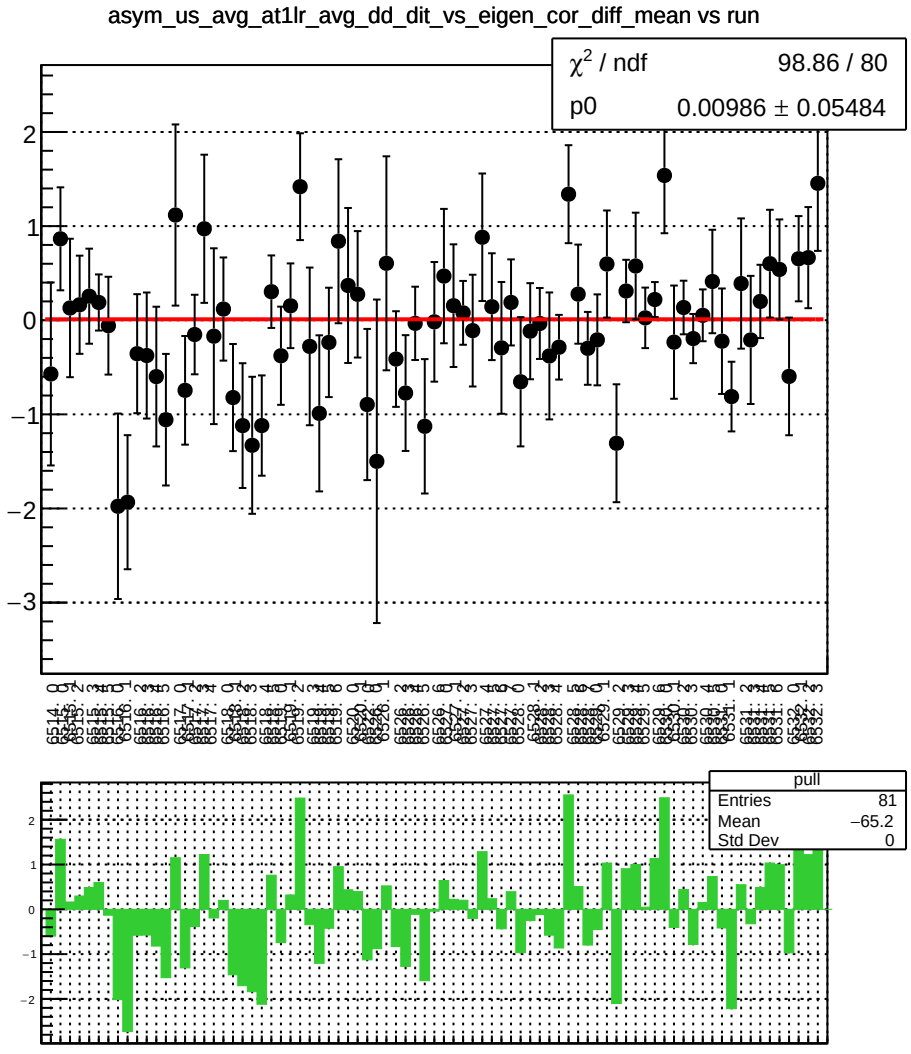

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 74.18 / 80
p0 9.645e−15 ± 1.418e−14
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 81
Mean 218.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 81
Mean 0.0196
Std Dev 0.9567
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

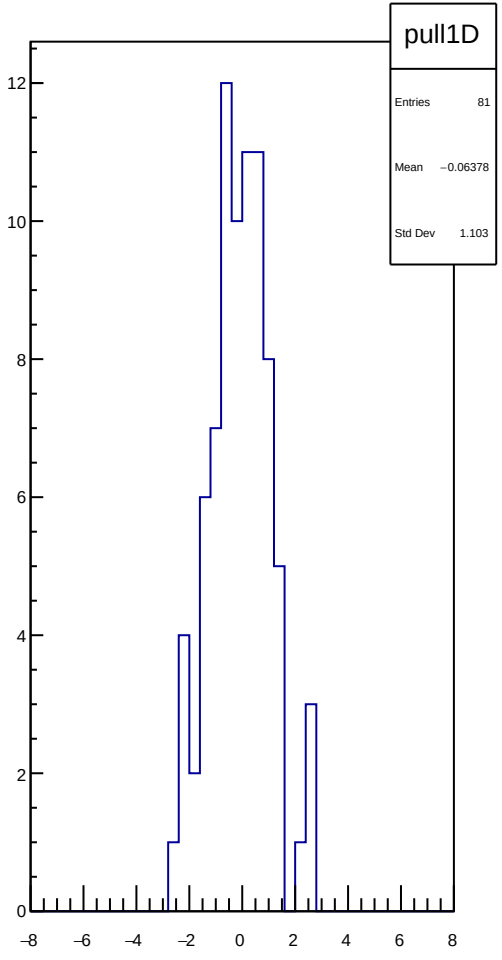

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.618e+05 / 80
p0 8.386e−12 ± 1.003e−14
0.5
0.4
0.3
0.2
0.1
0

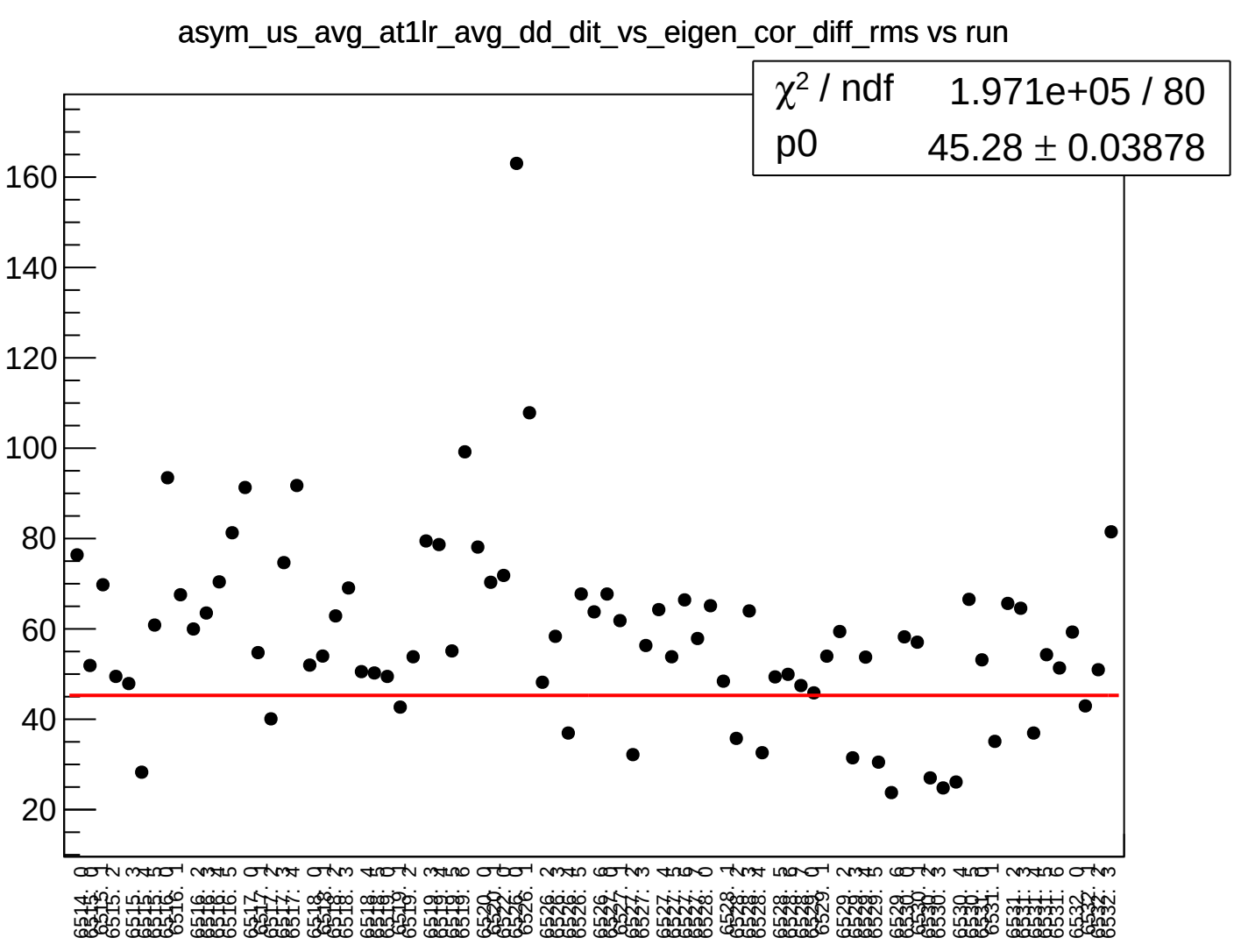

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 98.86 / 80
p0 0.00986 ± 0.05484
pull
Entries 81
Mean −65.2
Std Dev 0

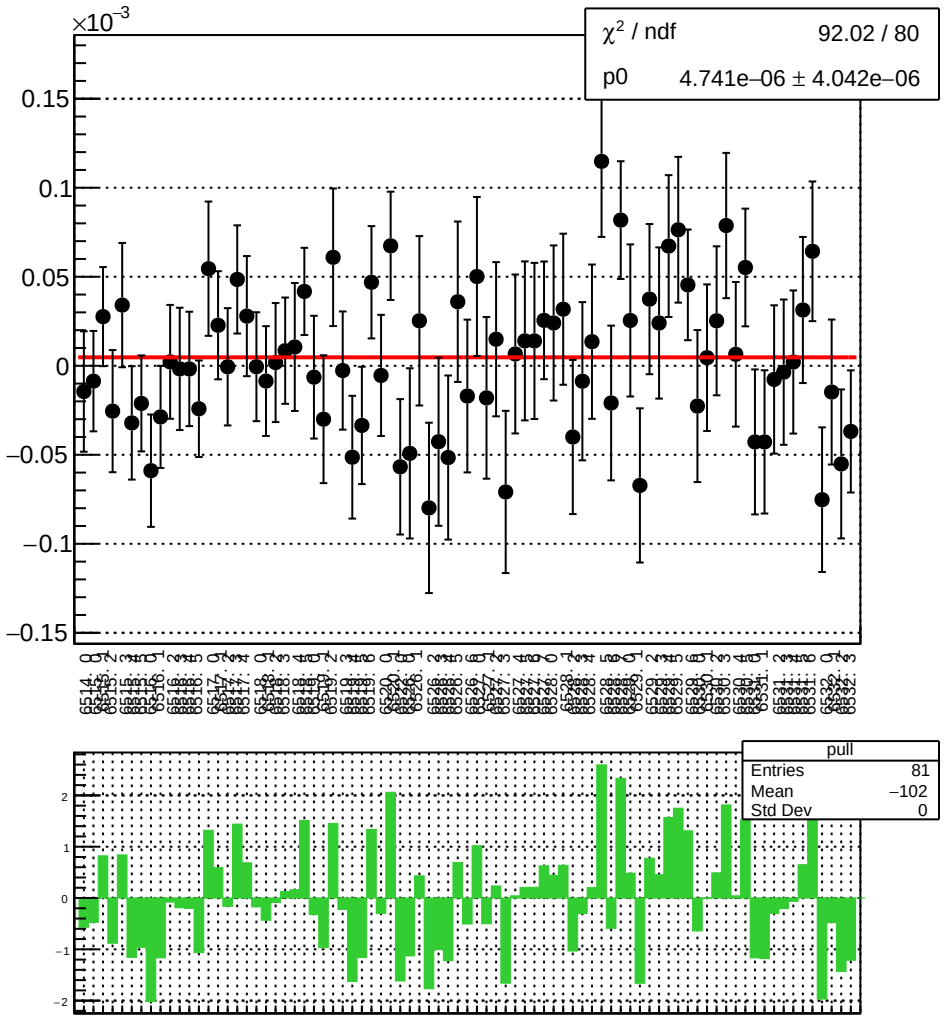

pull1D
Entries 81
Mean −0.06378
Std Dev 1.103

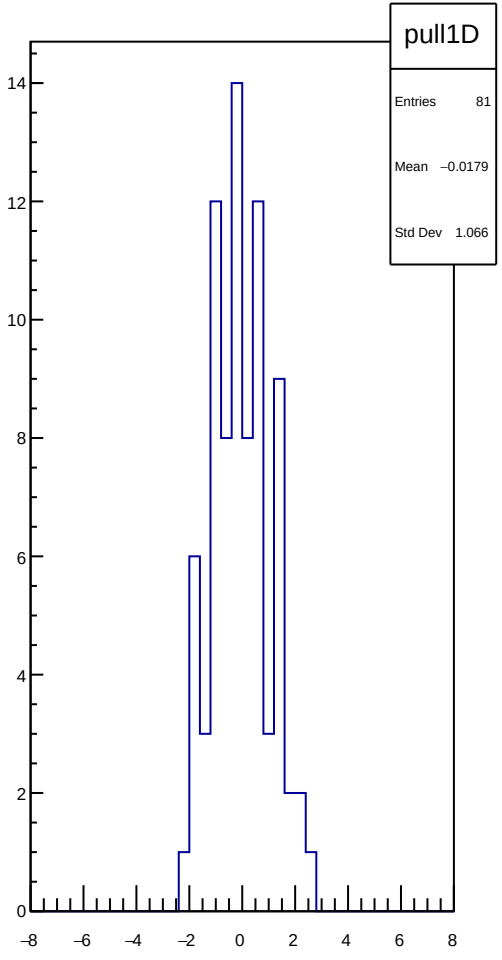

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.971e+05 / 80
p0 45.28 ± 0.03878
160
140
120
100
80
60
40
20

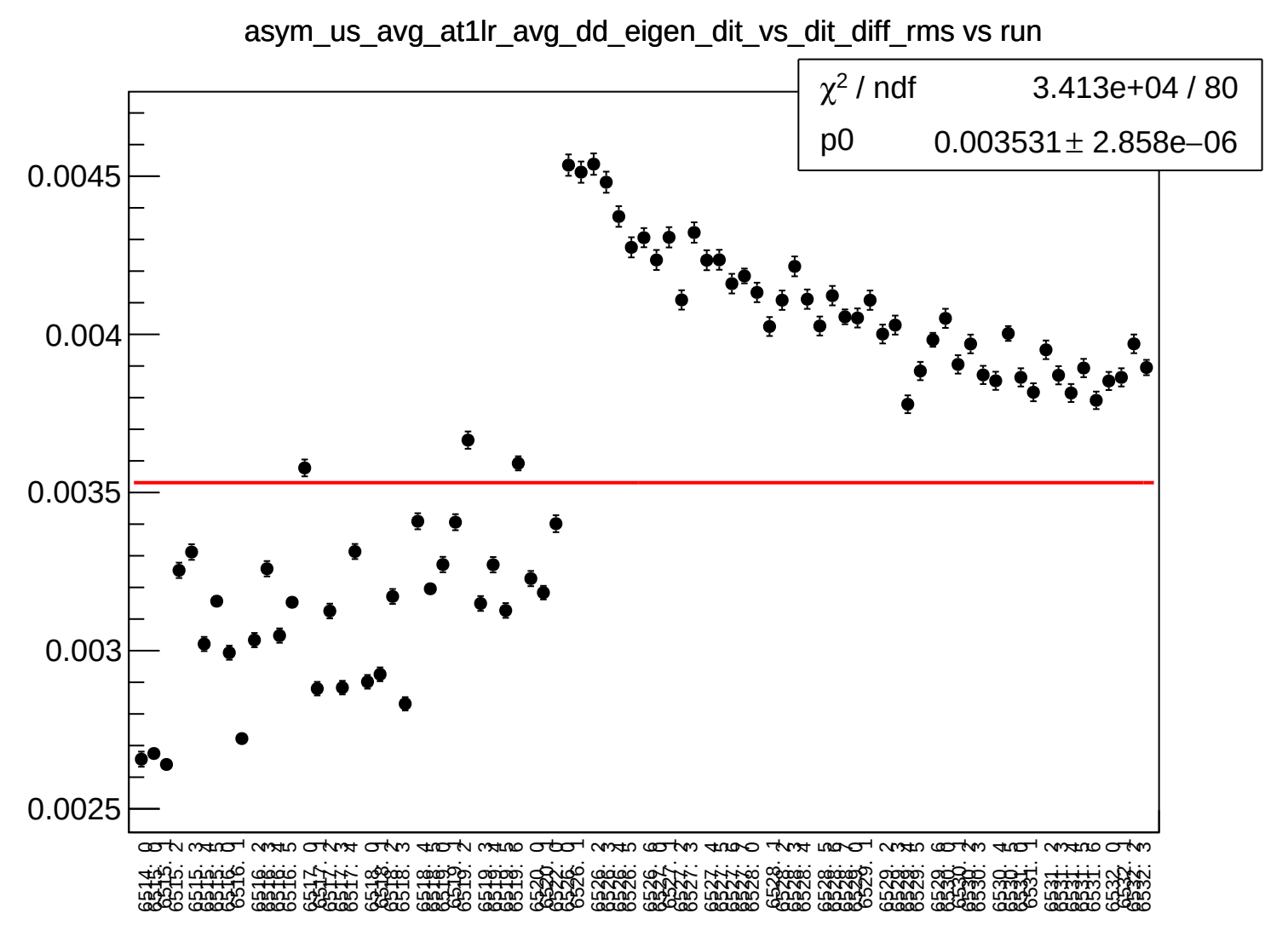

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.86 / 80
p0 0.00986 ± 0.05484
pull
Entries 81
Mean −65.2
Std Dev 0

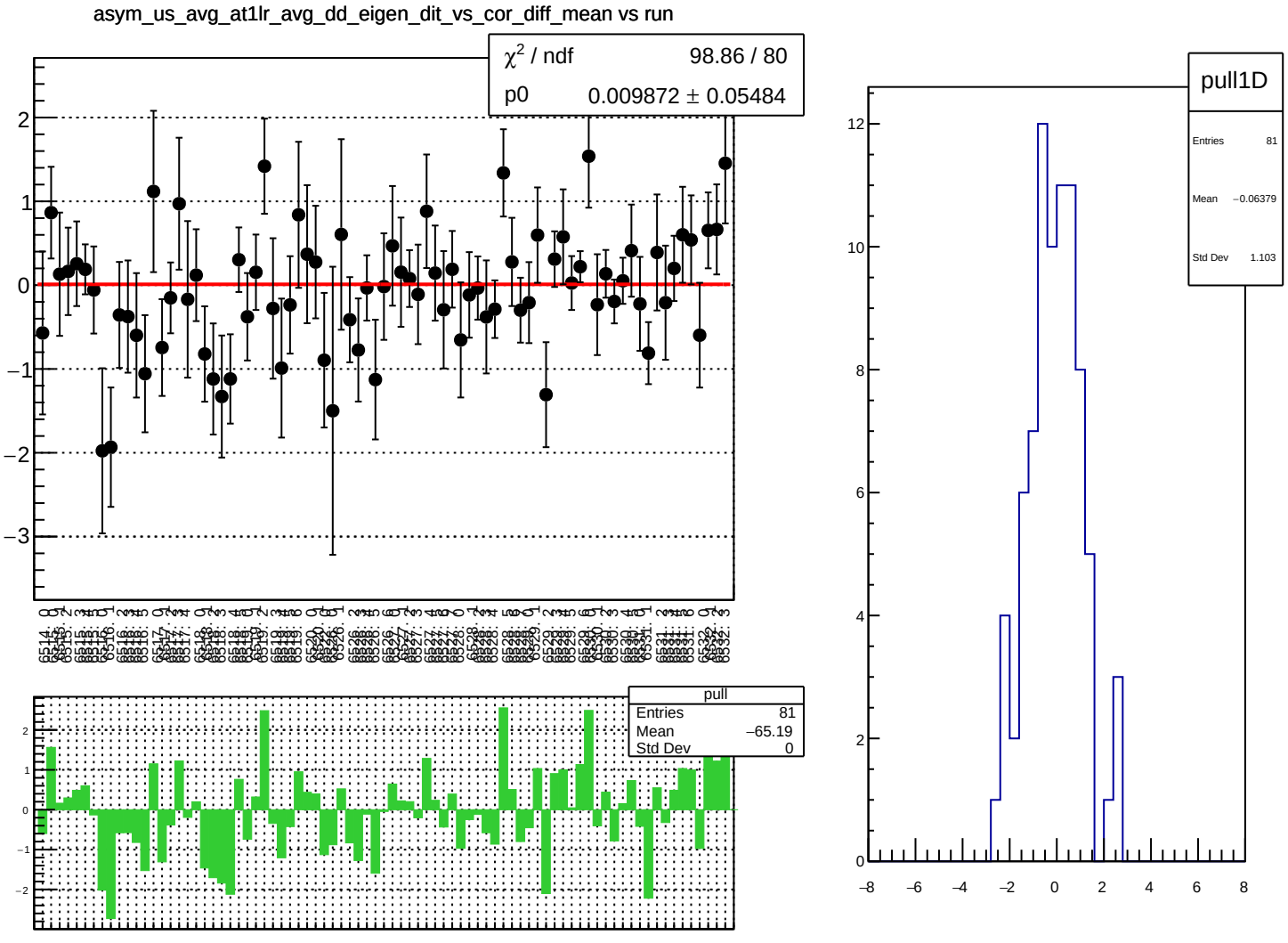

pull1D
Entries 81
Mean −0.06378
Std Dev 1.103

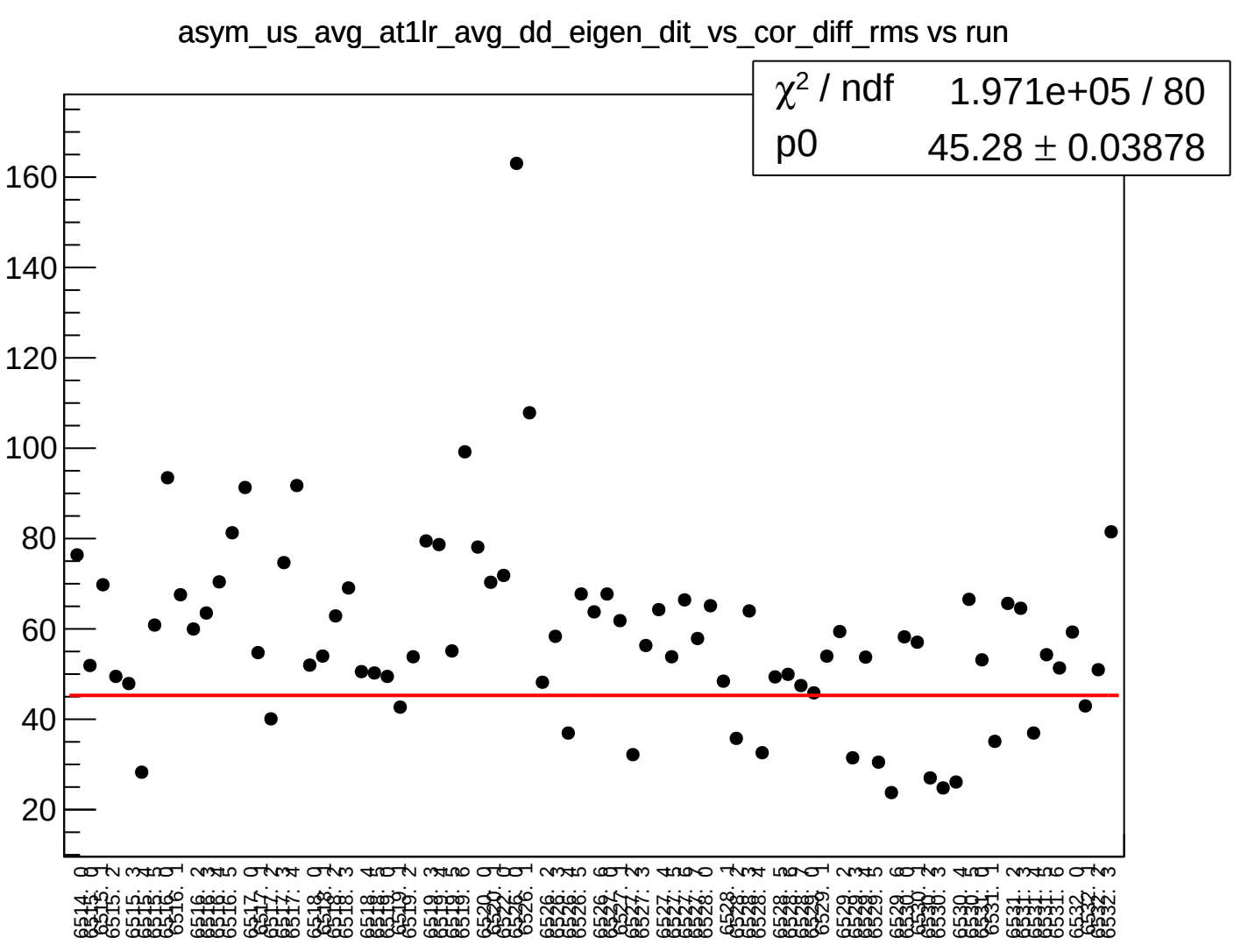

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.971e+05 / 80
p0 45.28 ± 0.03878
160
140
120
100
80
60
40
20

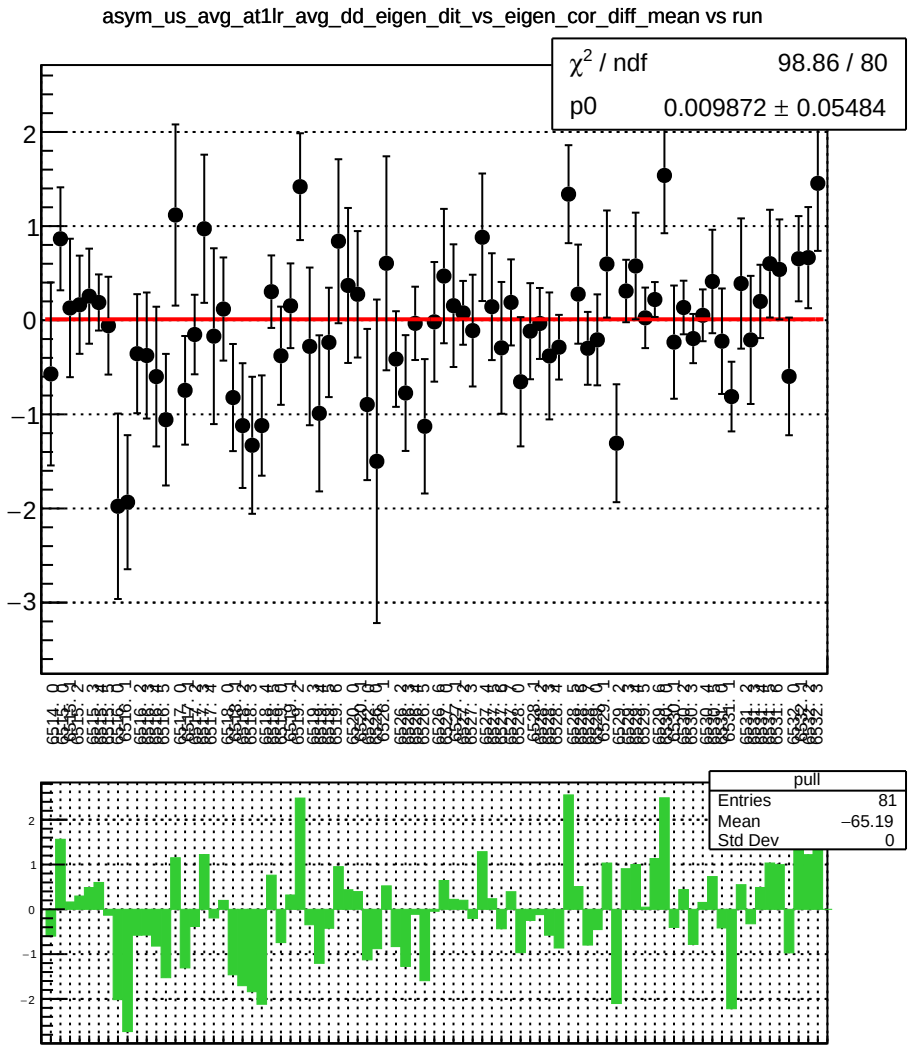

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.02 / 80
p0 4.741e−06 ± 4.042e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 81
Mean −102
Std Dev 0
2
1
0
−1
−2

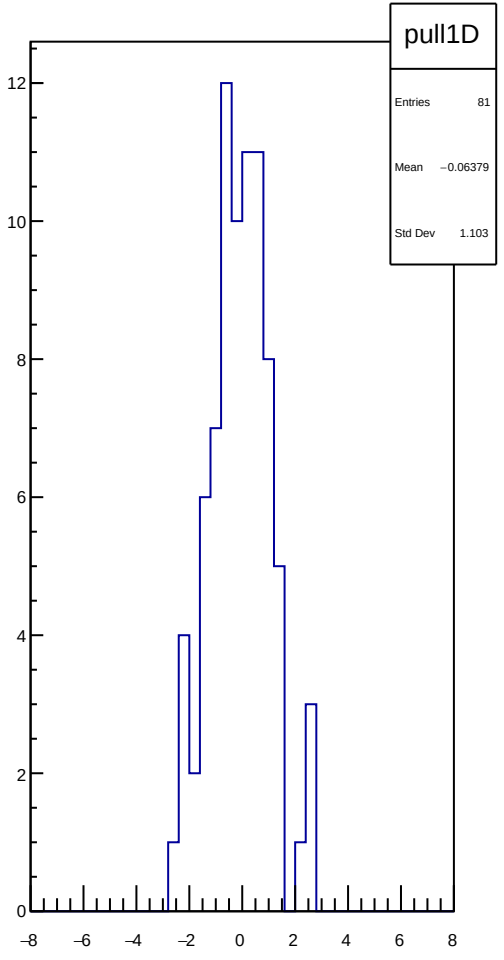

pull1D
Entries 81
Mean −0.0179
Std Dev 1.066
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

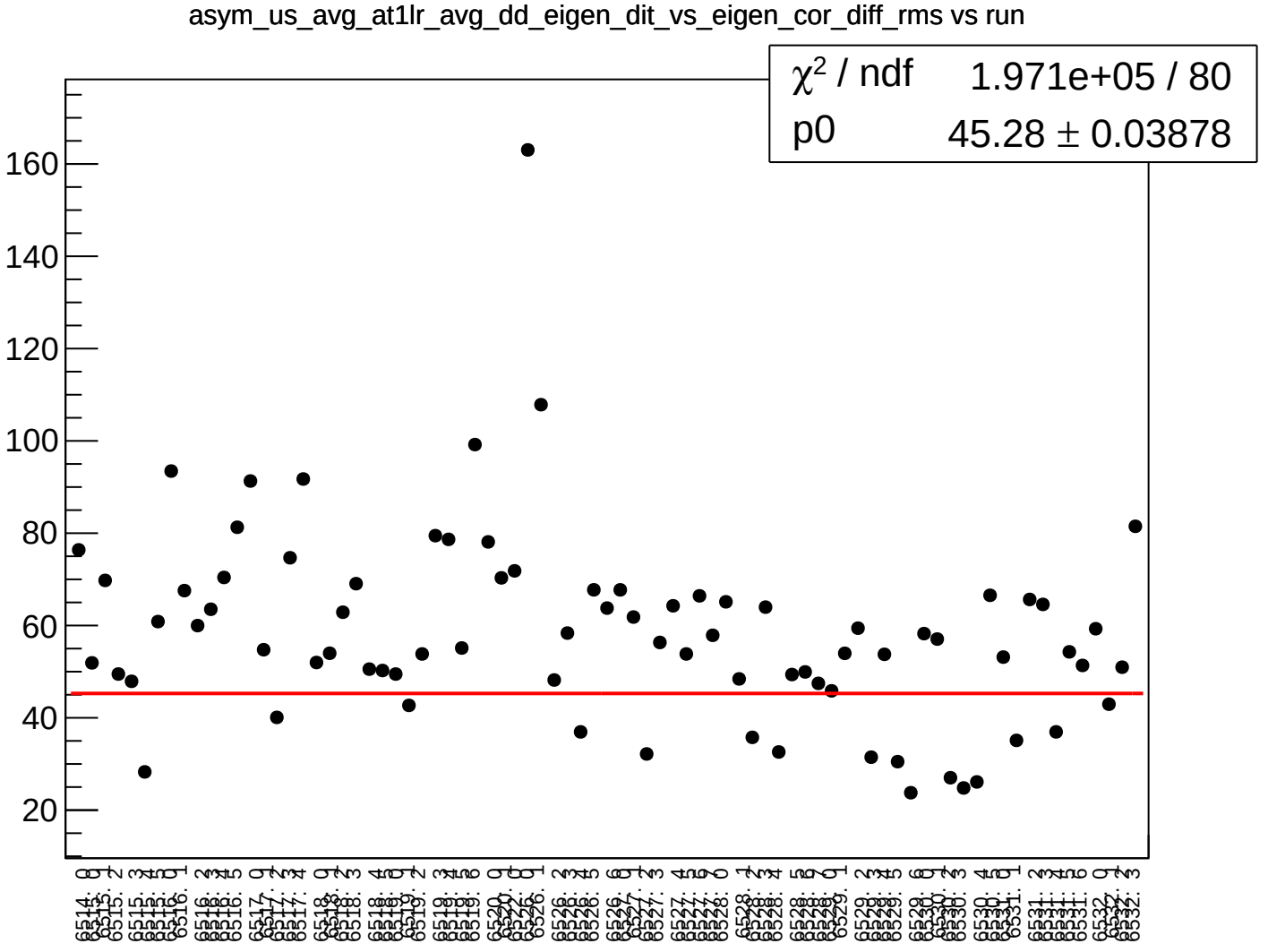

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.413e+04 / 80
p0 0.003531 ± 2.858e−06
0.0045
0.004
0.0035
0.003
0.0025

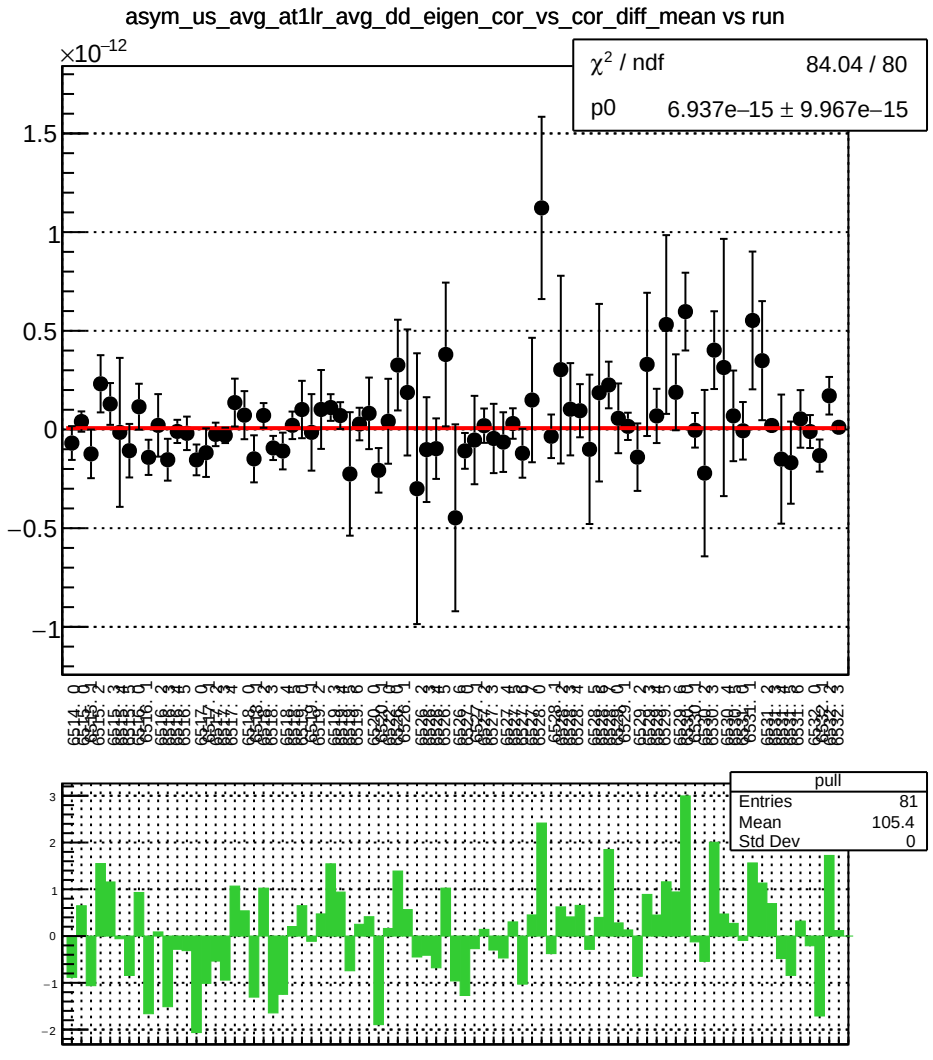

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.86 / 80
p0 0.009872 ± 0.05484
pull
Entries 81
Mean −65.19
Std Dev 0
pull1D
Entries 81
Mean −0.06379
Std Dev 1.103

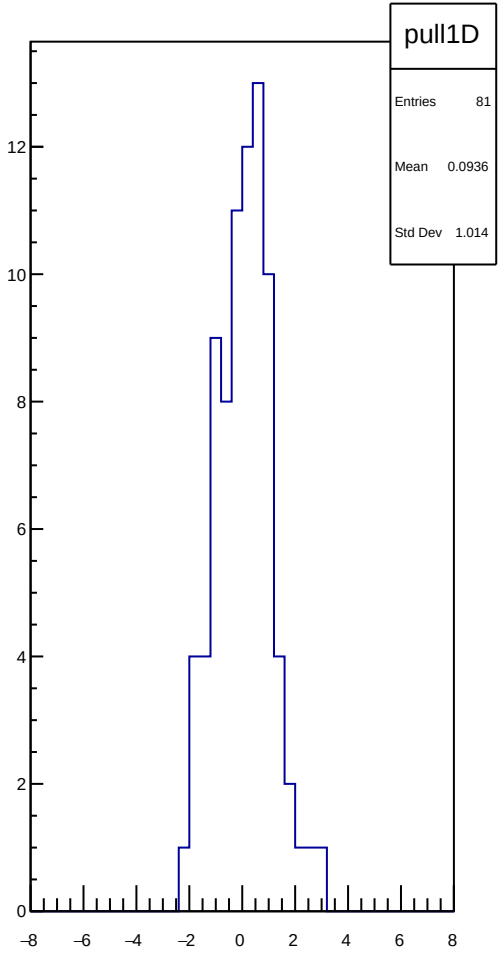

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.971e+05 / 80
p0 45.28 ± 0.03878
160
140
120
100
80
60
40
20

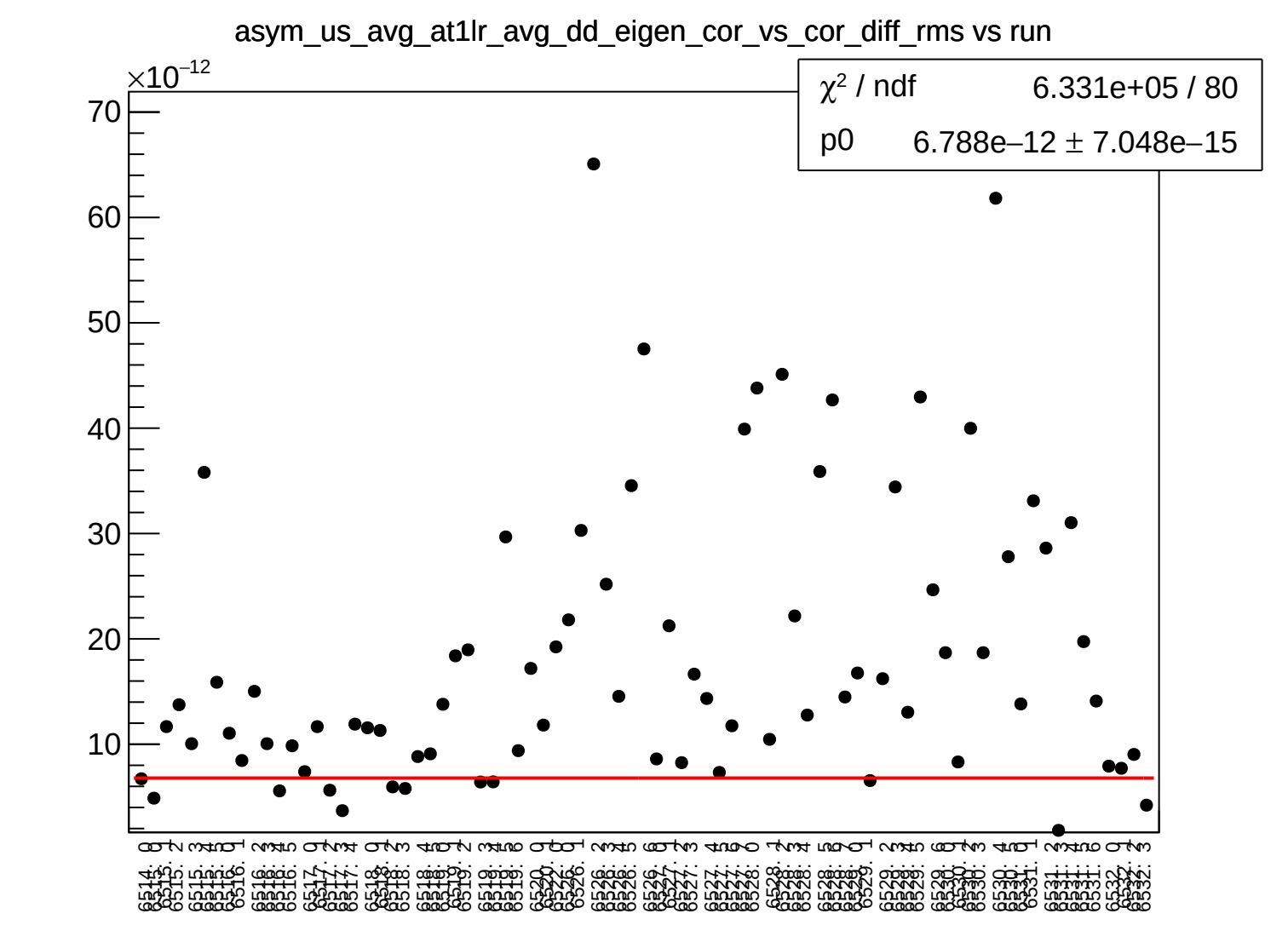

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.86 / 80
p0 0.009872 ± 0.05484
pull
Entries 81
Mean −65.19
Std Dev 0

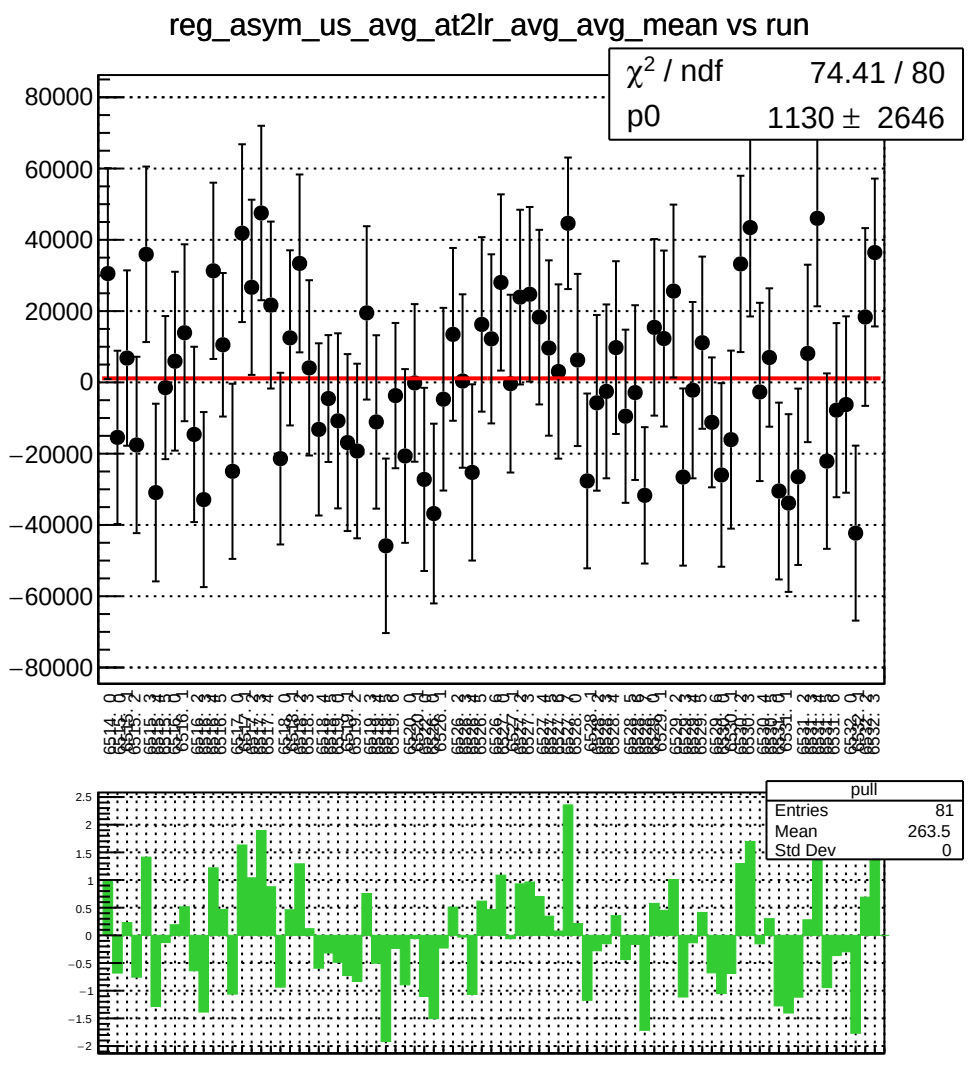

pull1D
Entries 81
Mean −0.06379
Std Dev 1.103

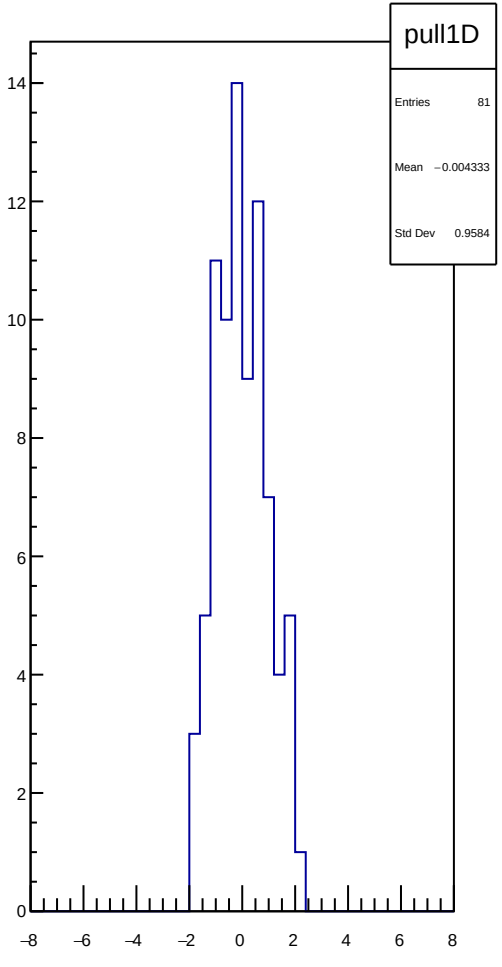

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.971e+05 / 80
p0 45.28 ± 0.03878
160
140
120
100
80
60
40
20

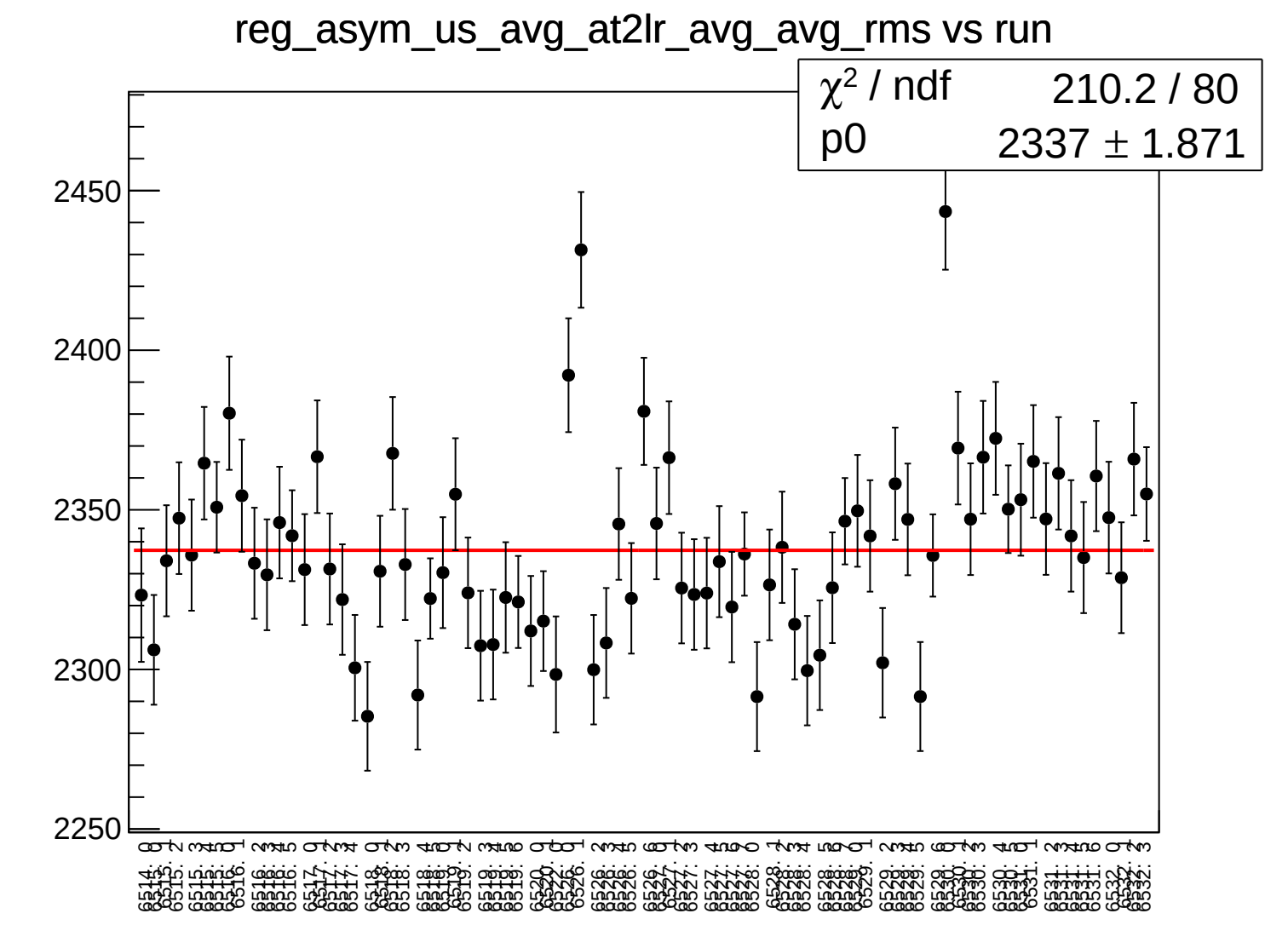

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.04 / 80
p0 6.937e−15 ± 9.967e−15
1.5
1
0.5
0
−0.5
−1
pull
Entries 81
Mean 105.4
Std Dev 0
3
2
1
0
−1
−2

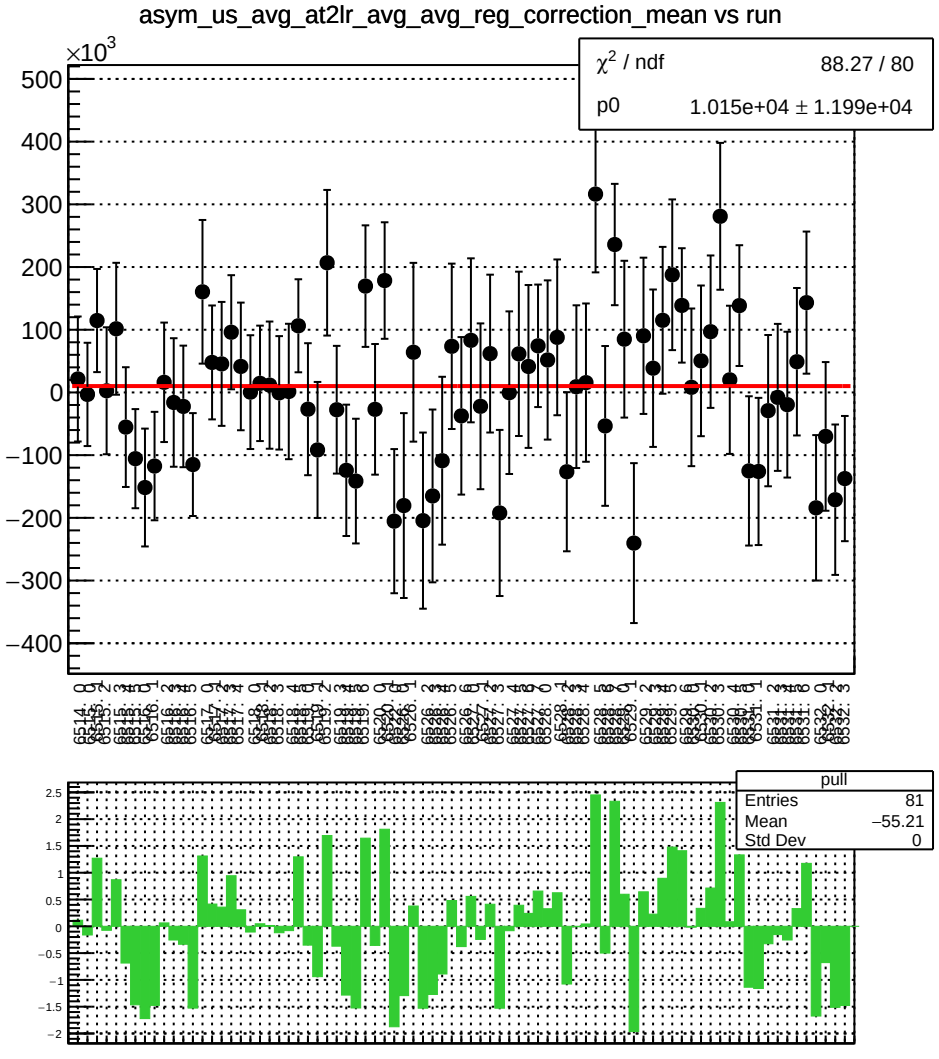

pull1D
Entries 81
Mean 0.0936
Std Dev 1.014
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

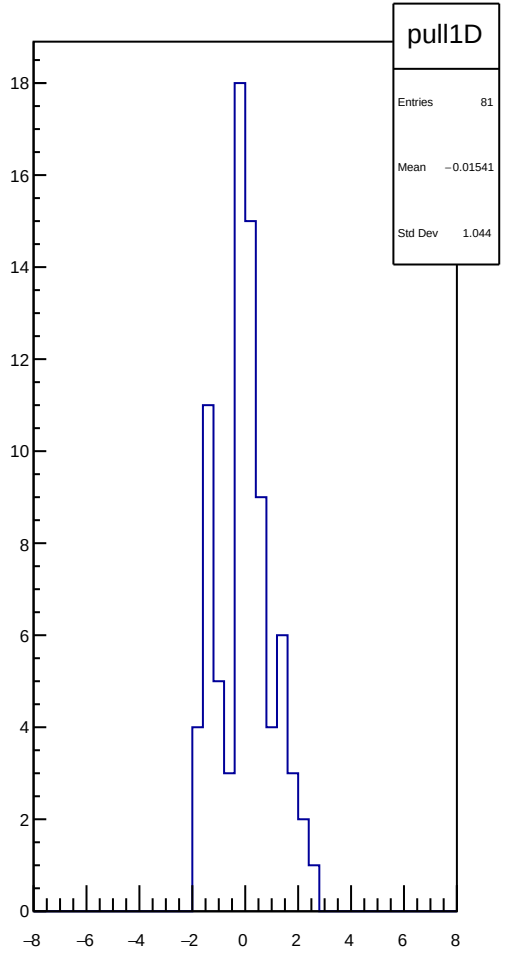

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.331e+05 / 80
p0 6.788e−12 ± 7.048e−15
70
60
50
40
30
20
10

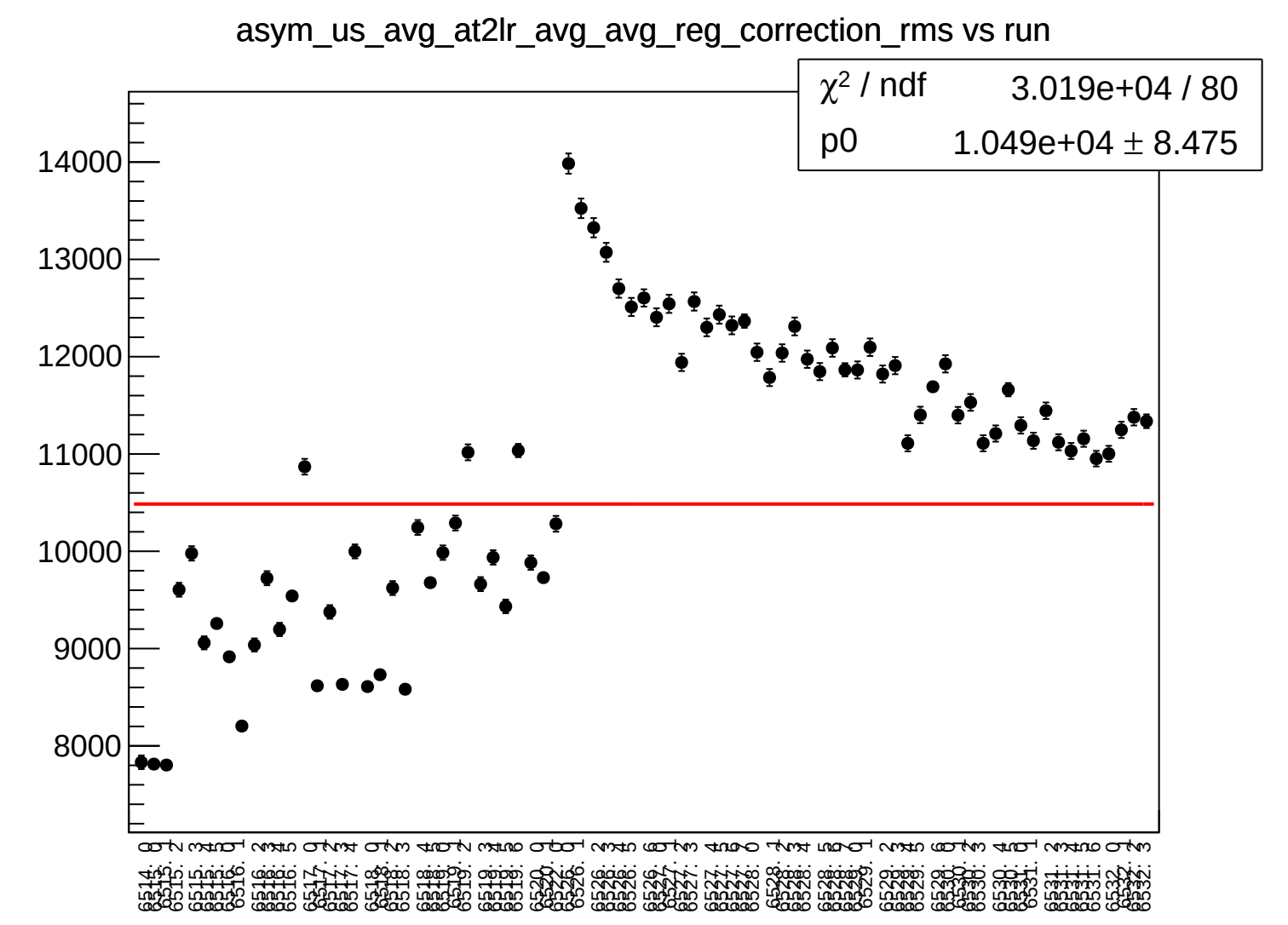

reg_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 74.41 / 80
p0 1130 ± 2646
pull
Entries 81
Mean 263.5
Std Dev 0

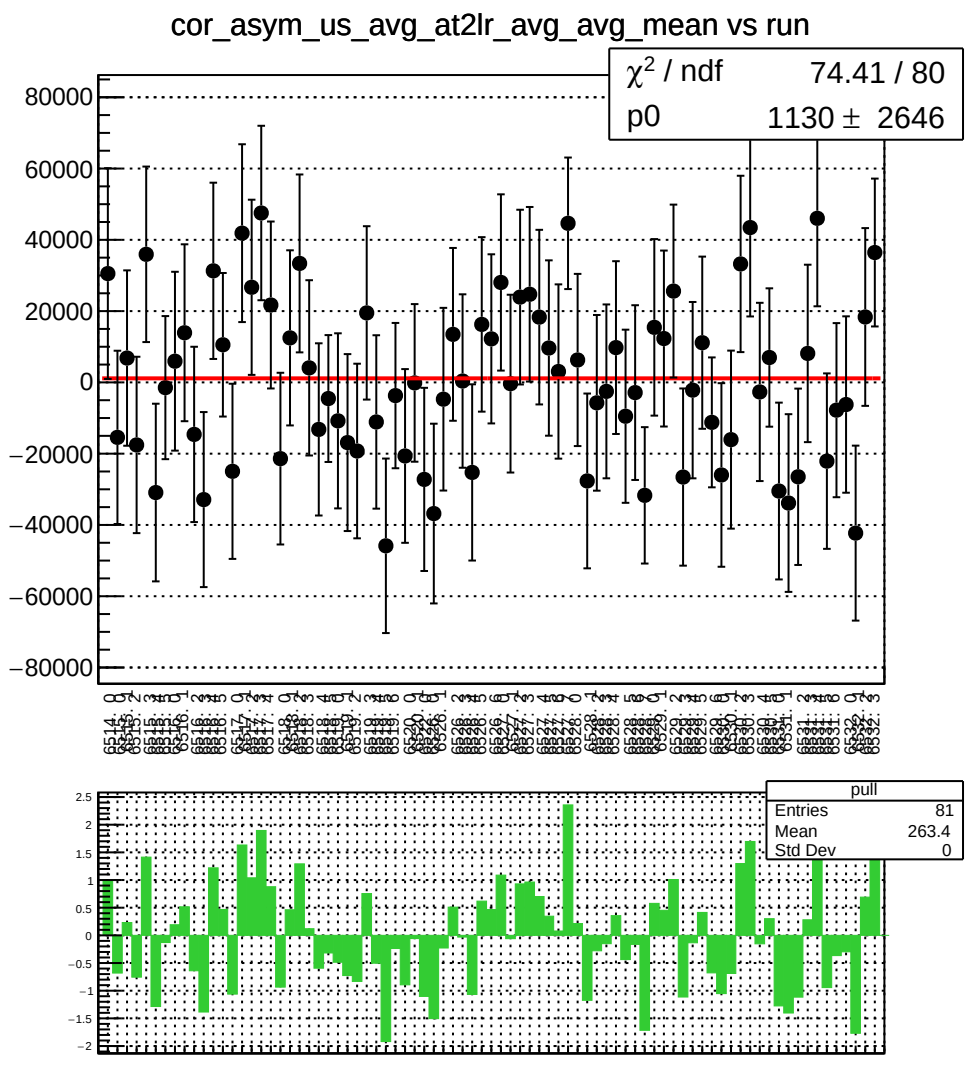

pull1D
Entries 81
Mean −0.004333
Std Dev 0.9584

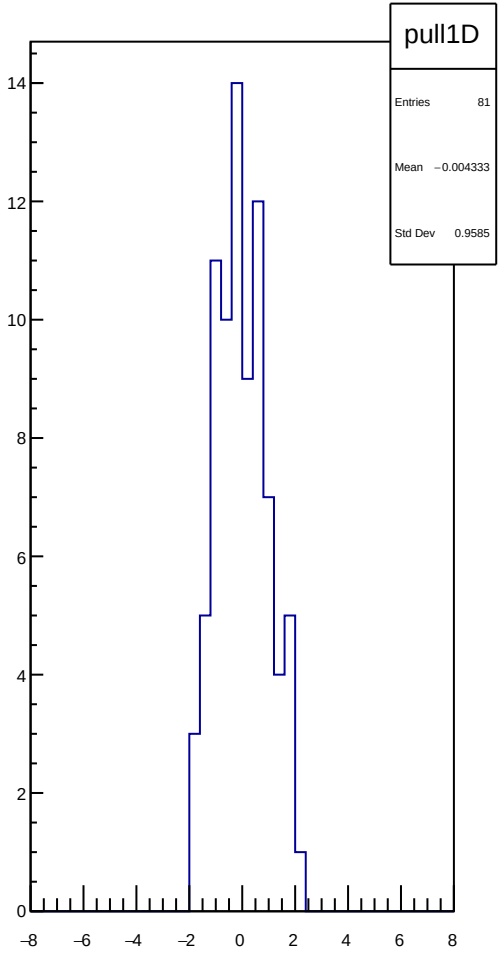

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 210.2 / 80
p0 2337 ± 1.871
2450
2400
2350
2300
2250

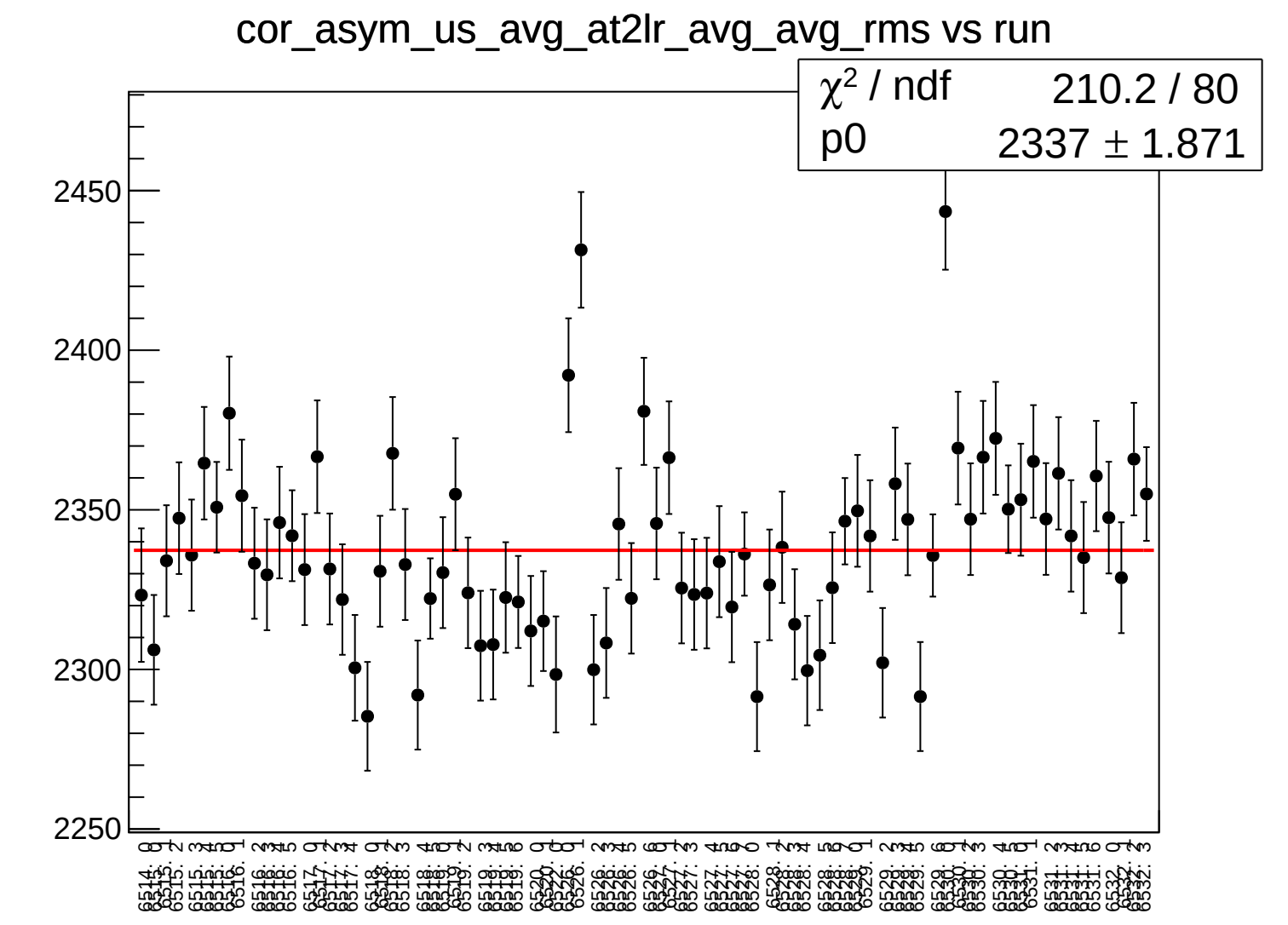

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 88.27 / 80
p0 1.015e+04 ± 1.199e+04
pull
Entries 81
Mean −55.21
Std Dev 0

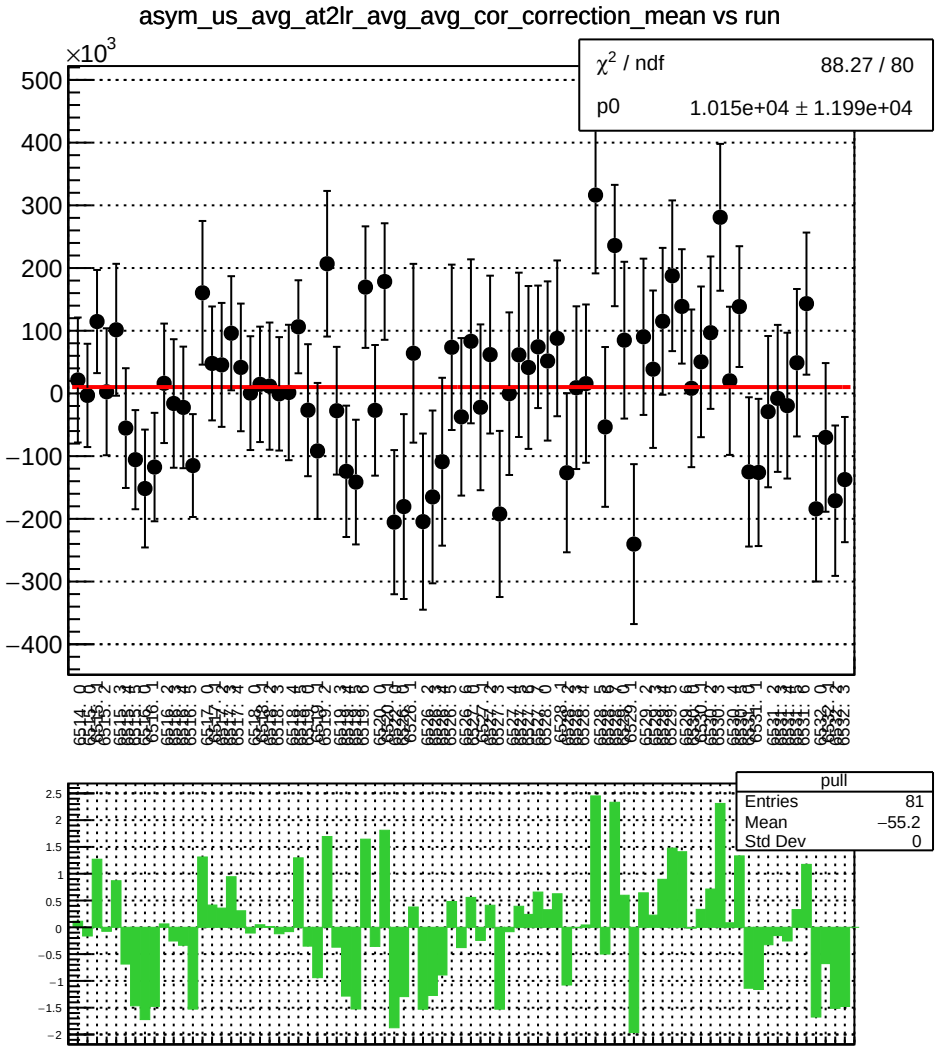

pull1D
Entries 81
Mean −0.01541
Std Dev 1.044

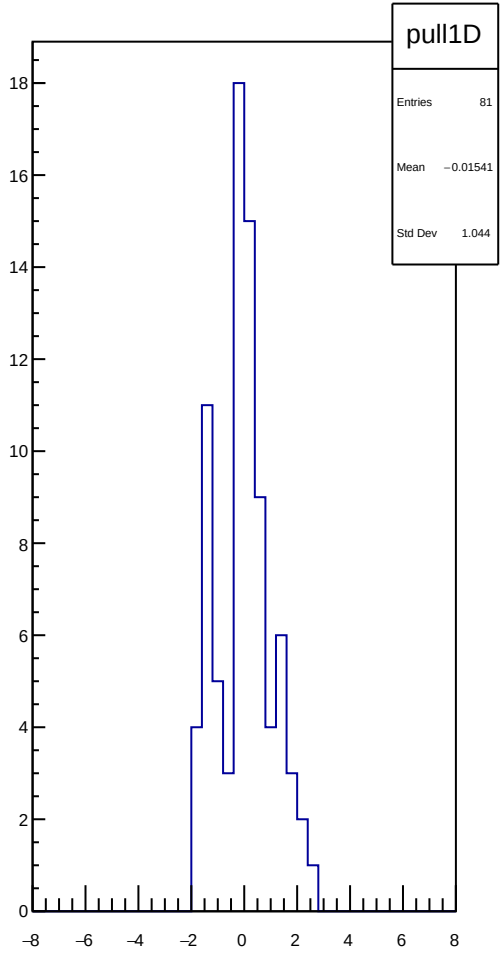

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 3.019e+04 / 80
p0 1.049e+04 ± 8.475
14000
13000
12000
11000
10000
9000
8000

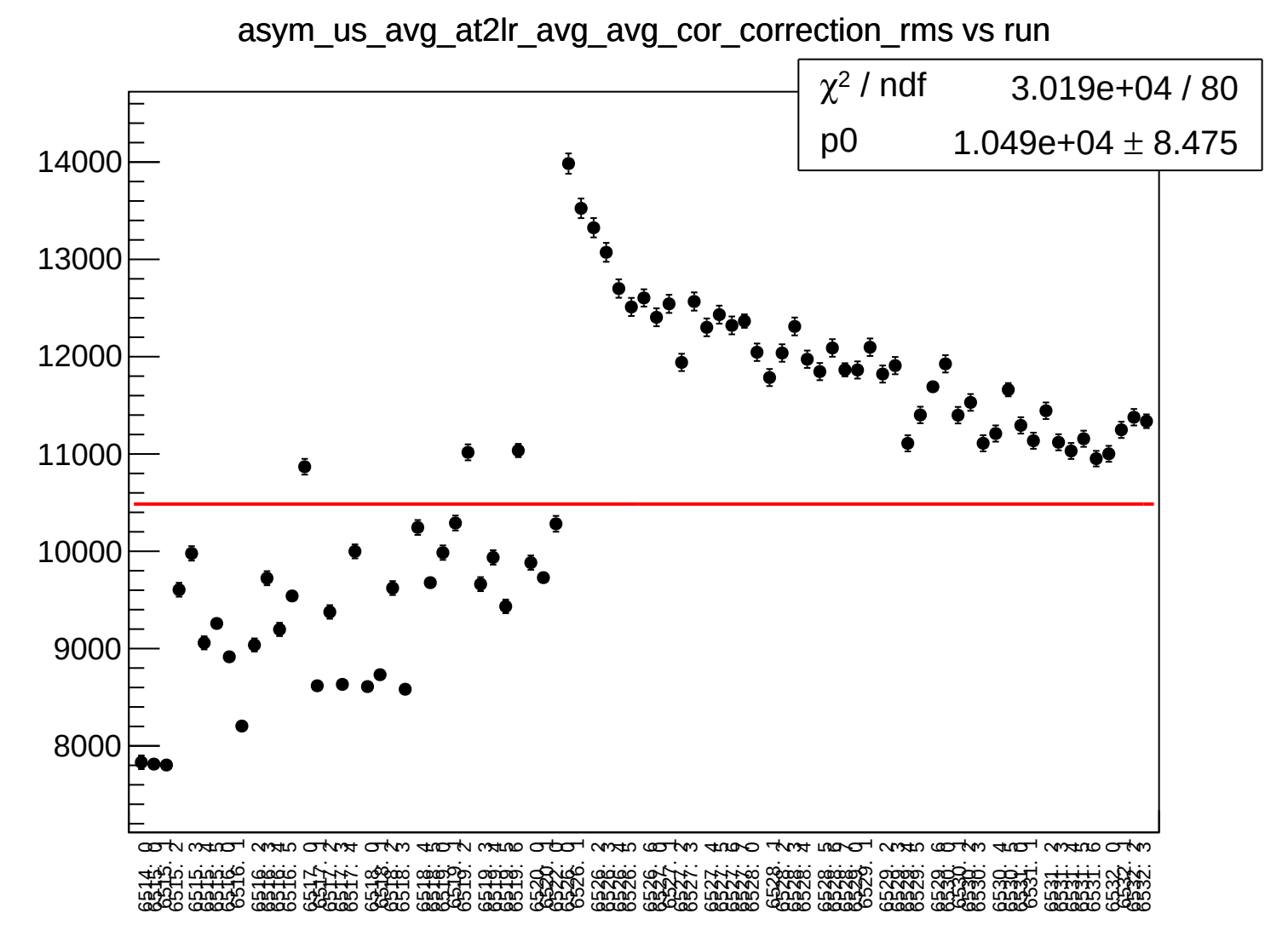

cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 74.41 / 80
p0 1130 ± 2646
pull
Entries 81
Mean 263.4
Std Dev 0

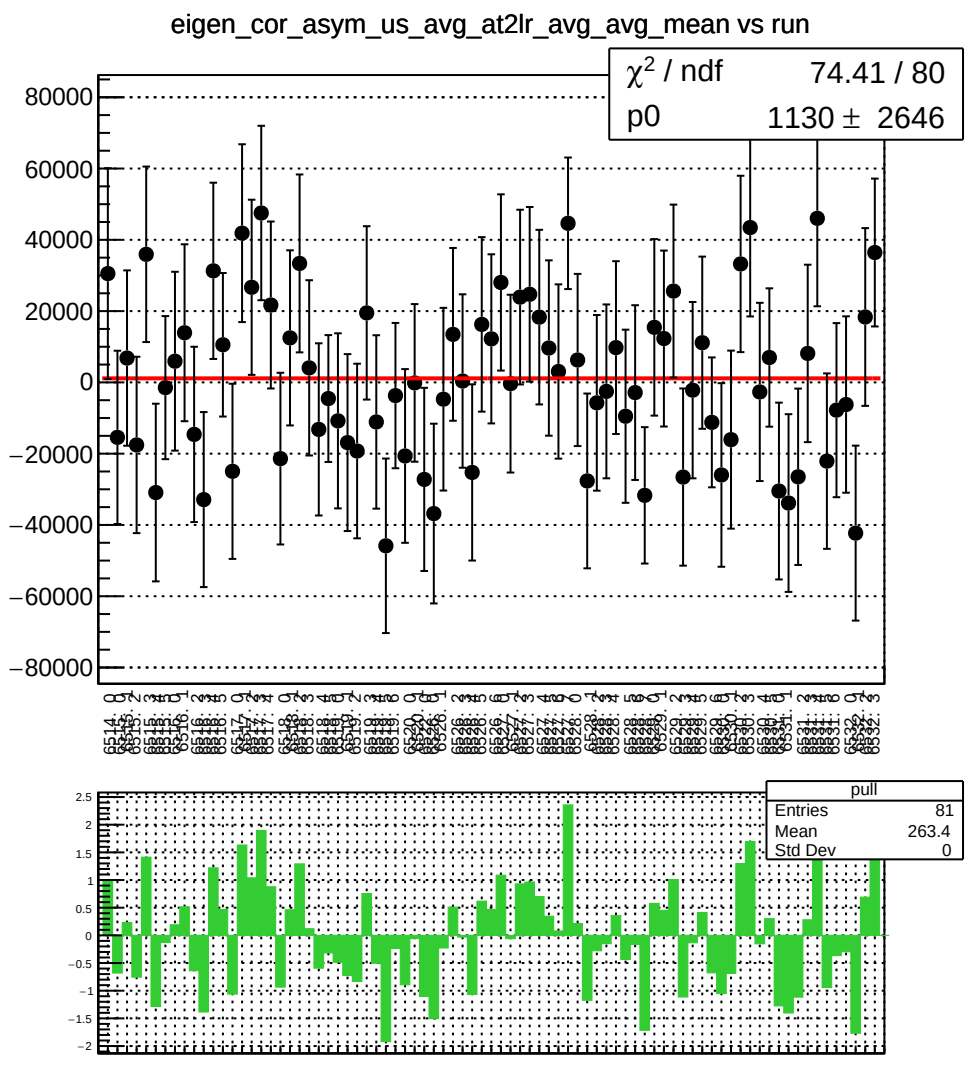

pull1D
Entries 81
Mean −0.004333
Std Dev 0.9585

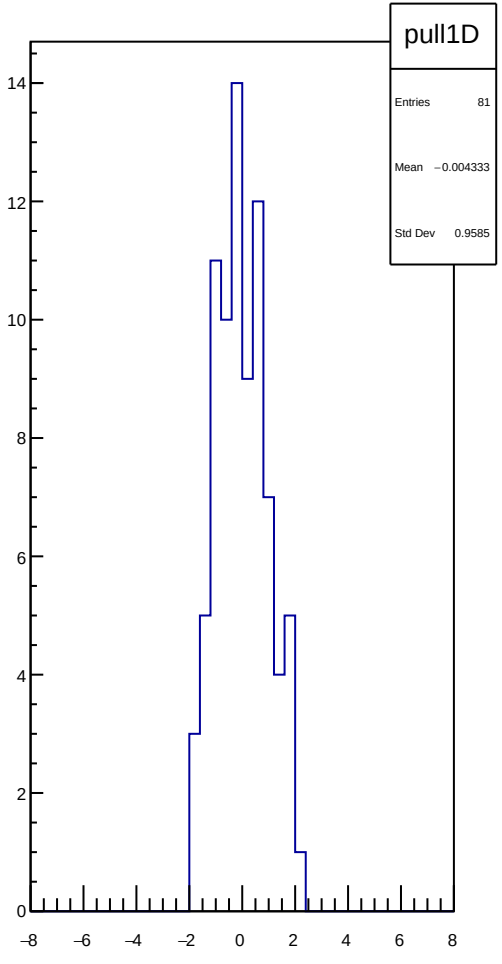

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 210.2 / 80
p0 2337 ± 1.871
2450
2400
2350
2300
2250

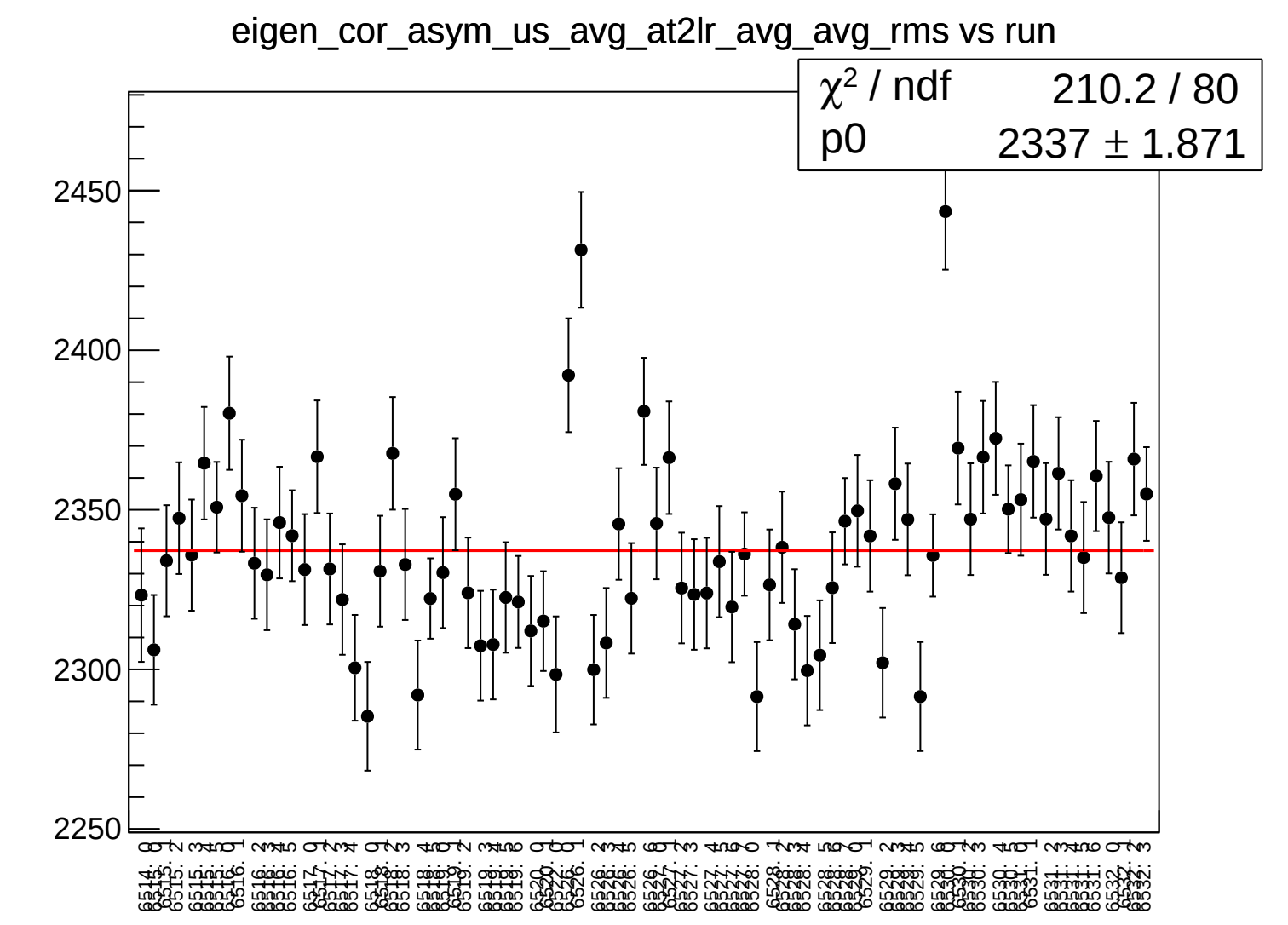

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 88.27 / 80
p0 1.015e+04 ± 1.199e+04
pull
Entries 81
Mean −55.2
Std Dev 0

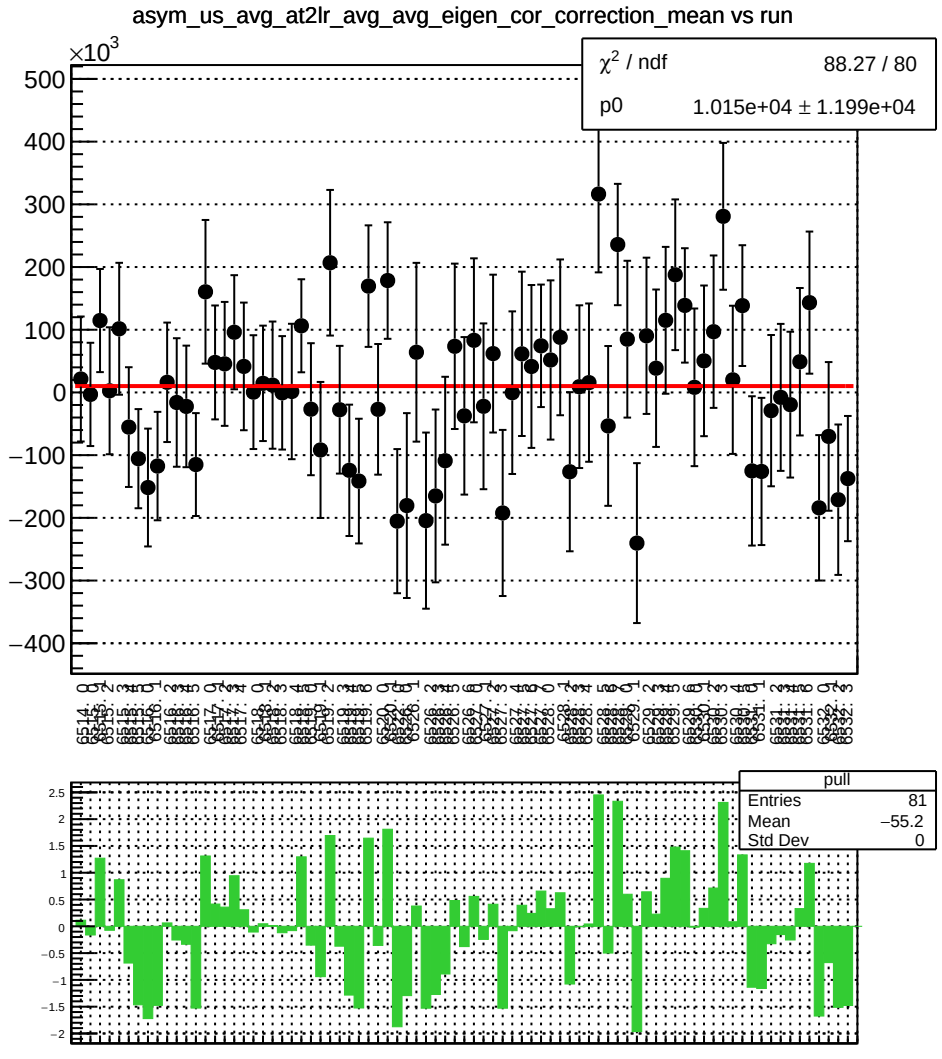

pull1D
Entries 81
Mean −0.01541
Std Dev 1.044

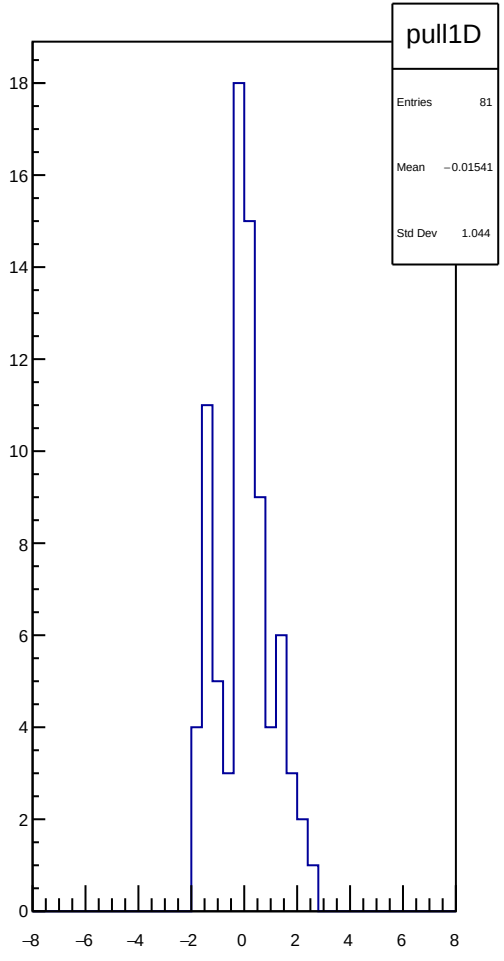

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 3.019e+04 / 80
p0 1.049e+04 ± 8.475
14000
13000
12000
11000
10000
9000
8000

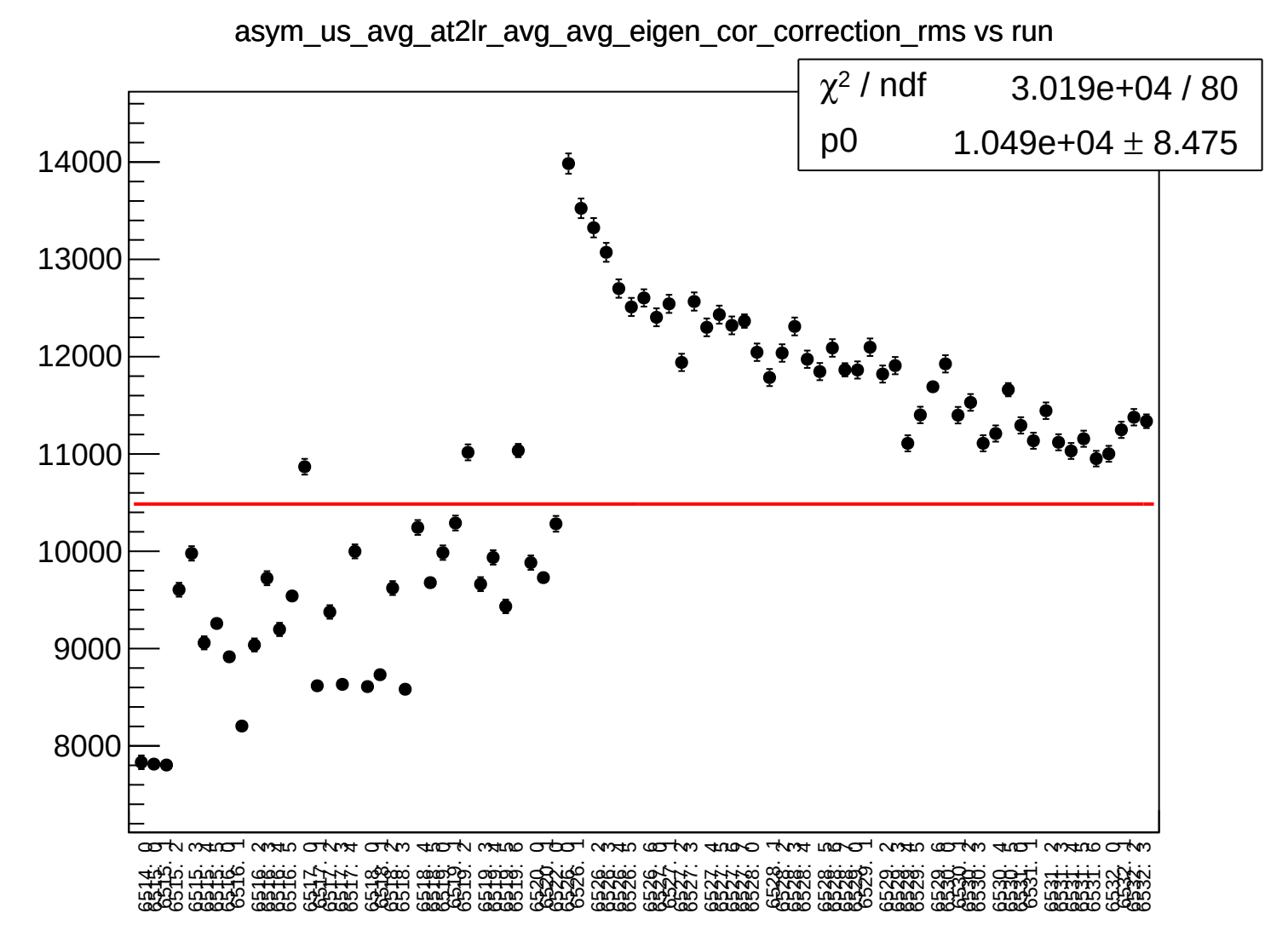

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 74.41 / 80
p0 1130 ± 2646
pull
Entries 81
Mean 263.4
Std Dev 0

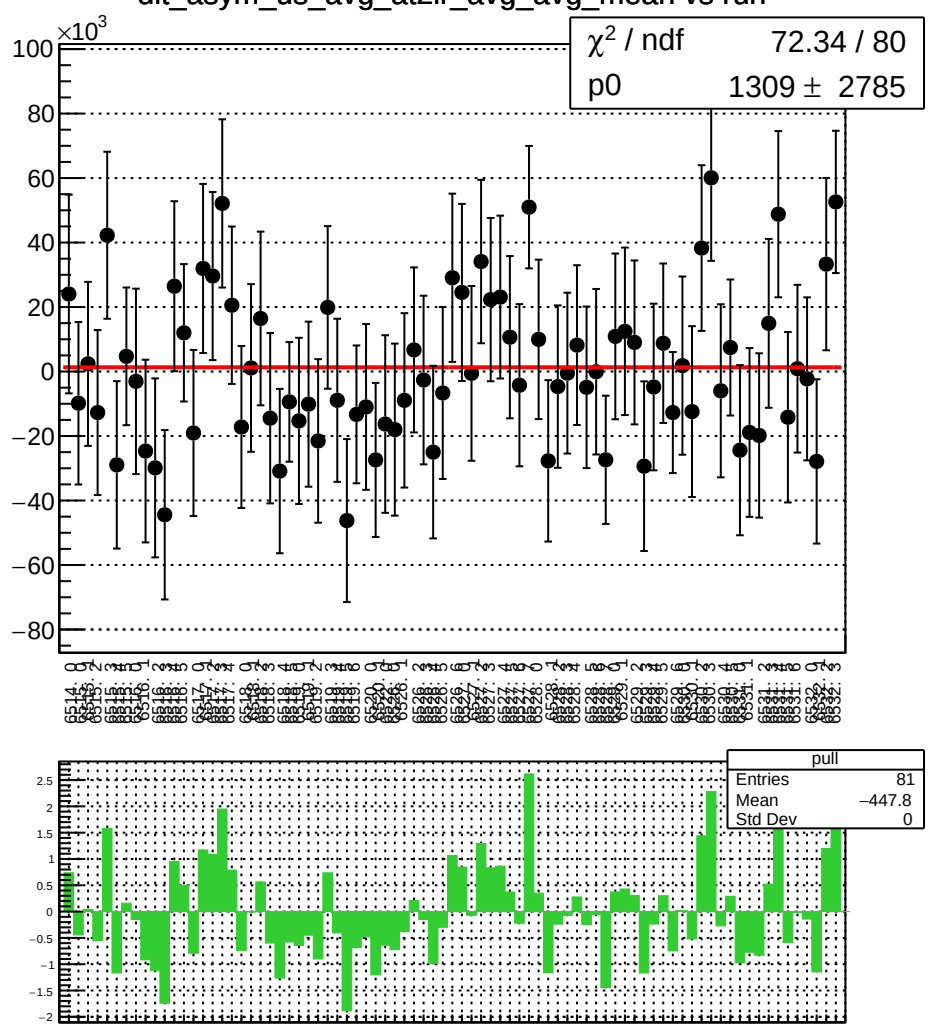

pull1D
Entries 81
Mean −0.004333
Std Dev 0.9585

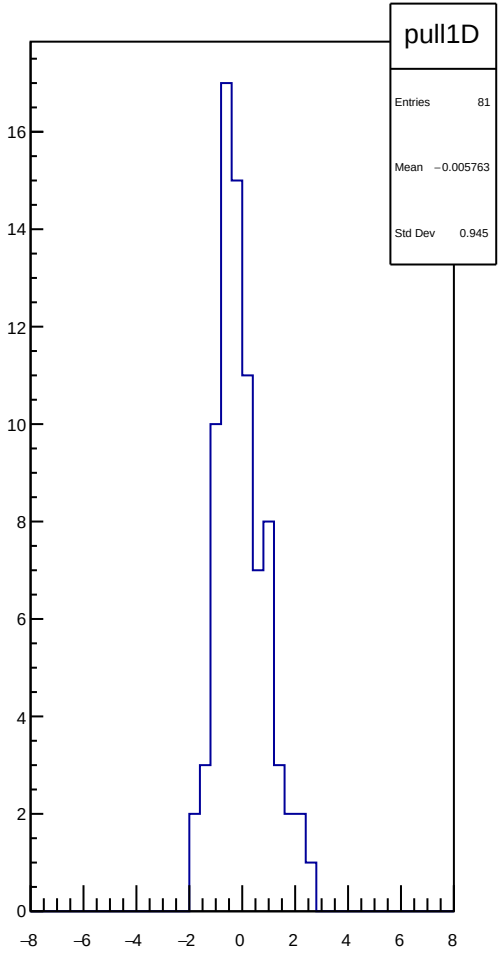

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 210.2 / 80
p0 2337 ± 1.871
2450
2400
2350
2300
2250

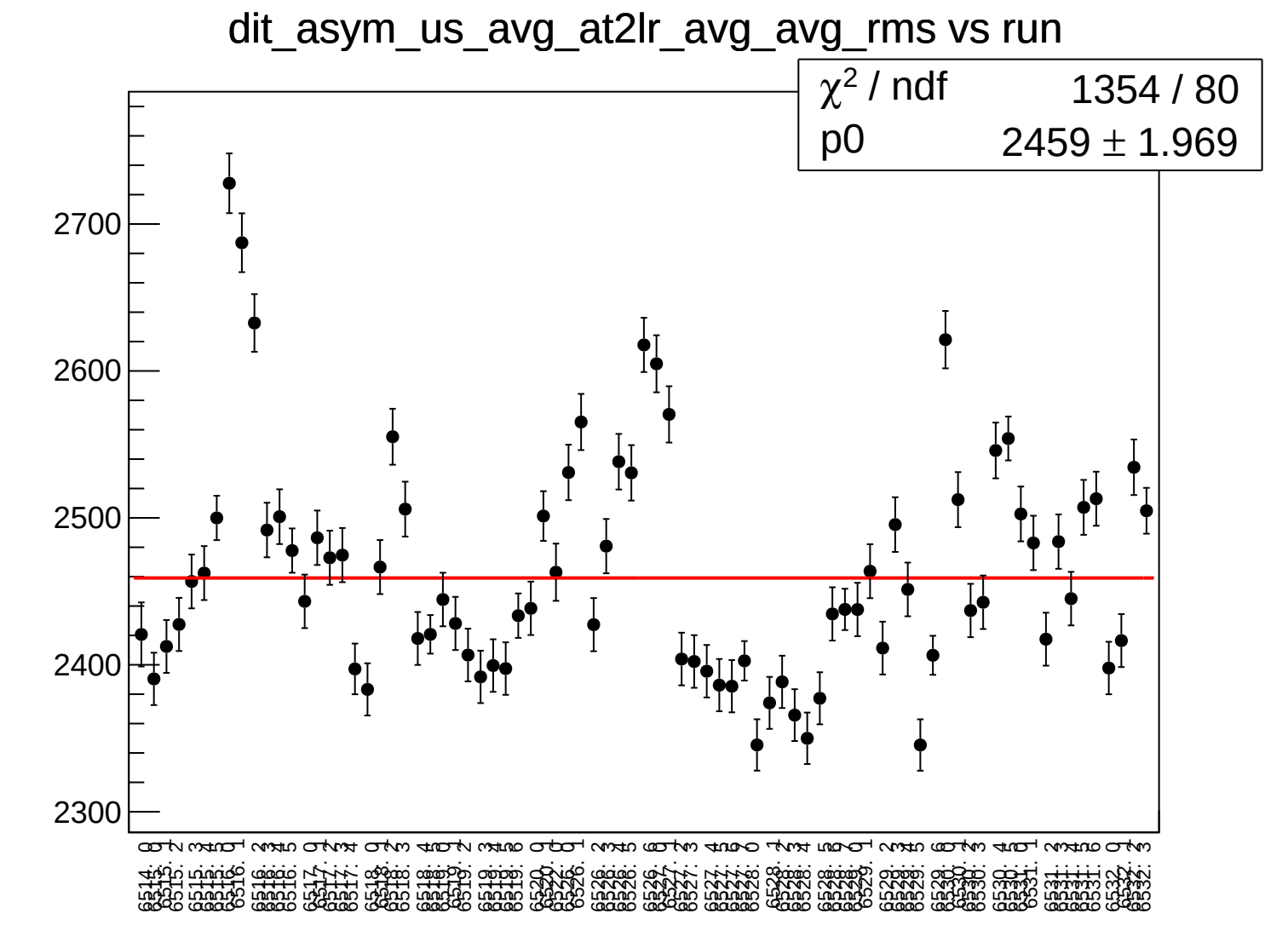

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 88.27 / 80
p0 1.015e+04 ± 1.199e+04
pull
Entries 81
Mean −55.2
Std Dev 0

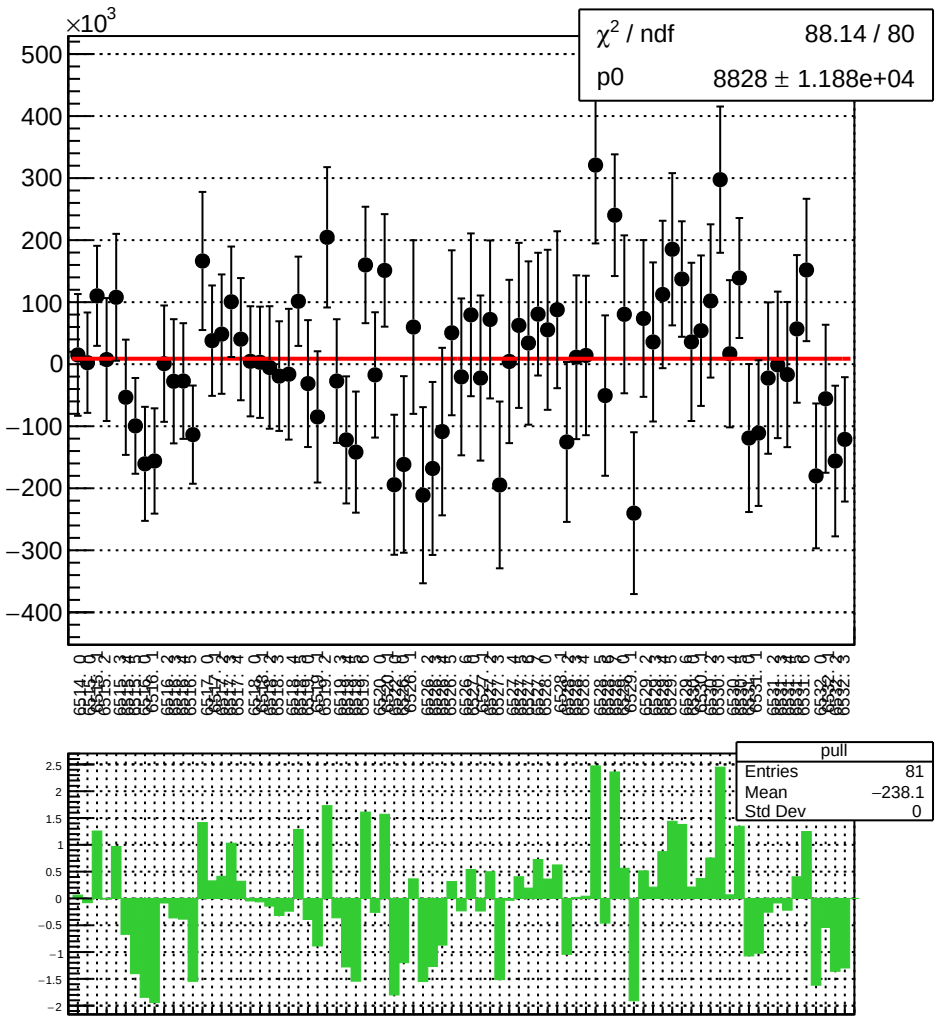

pull1D
Entries 81
Mean −0.01541
Std Dev 1.044

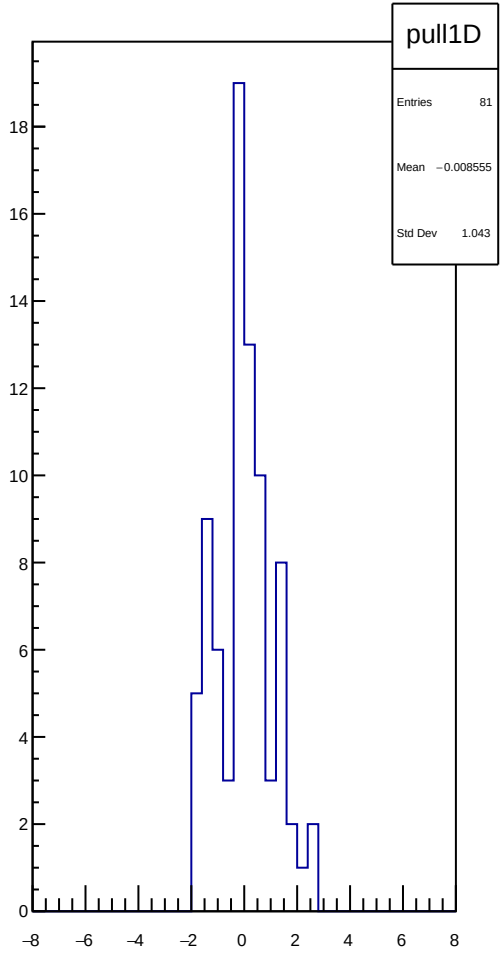

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.019e+04 / 80
p0 1.049e+04 ± 8.475
14000
13000
12000
11000
10000
9000
8000

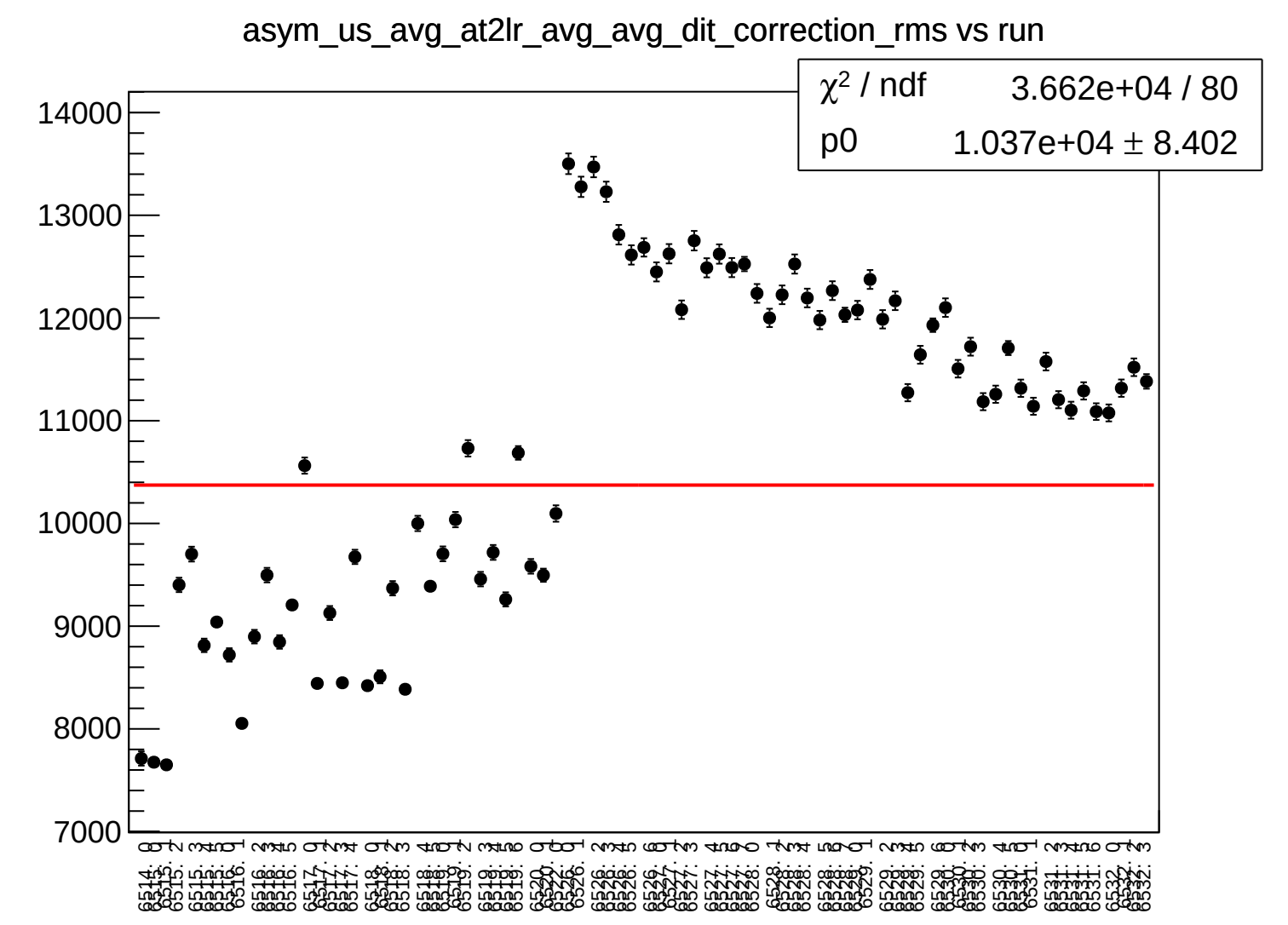

dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ^2 / ndf 72.34 / 80
p0 1309 ± 2785
×10^3
pull
Entries 81
Mean −447.8
Std Dev 0

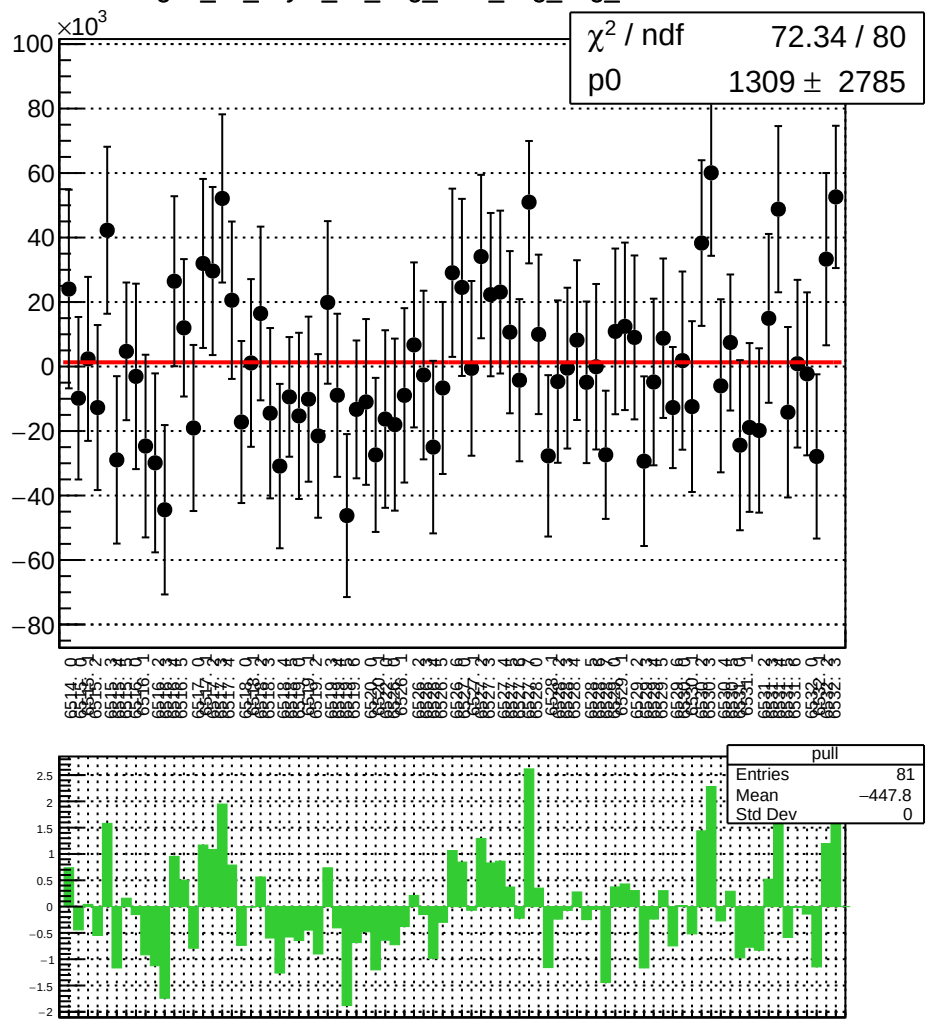

pull1D
Entries 81
Mean −0.005763
Std Dev 0.945

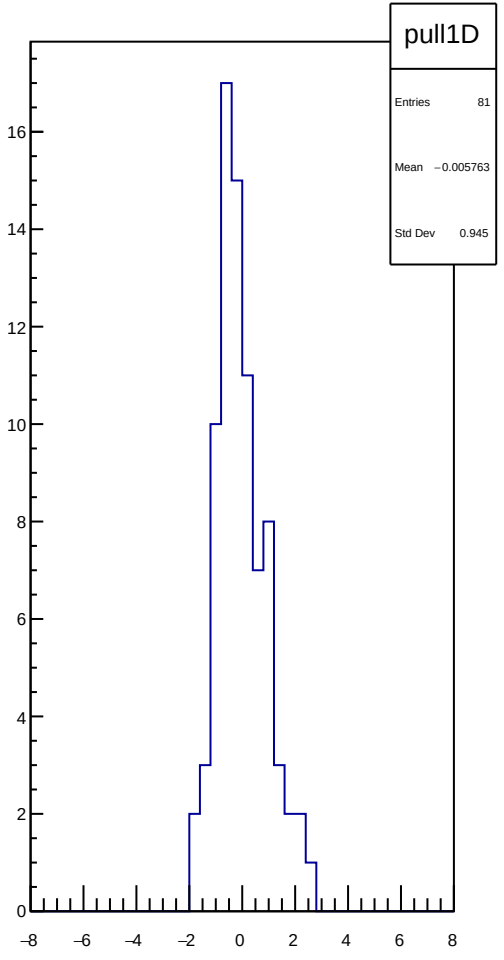

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1354 / 80
p0 2459 ± 1.969
2700
2600
2500
2400
2300

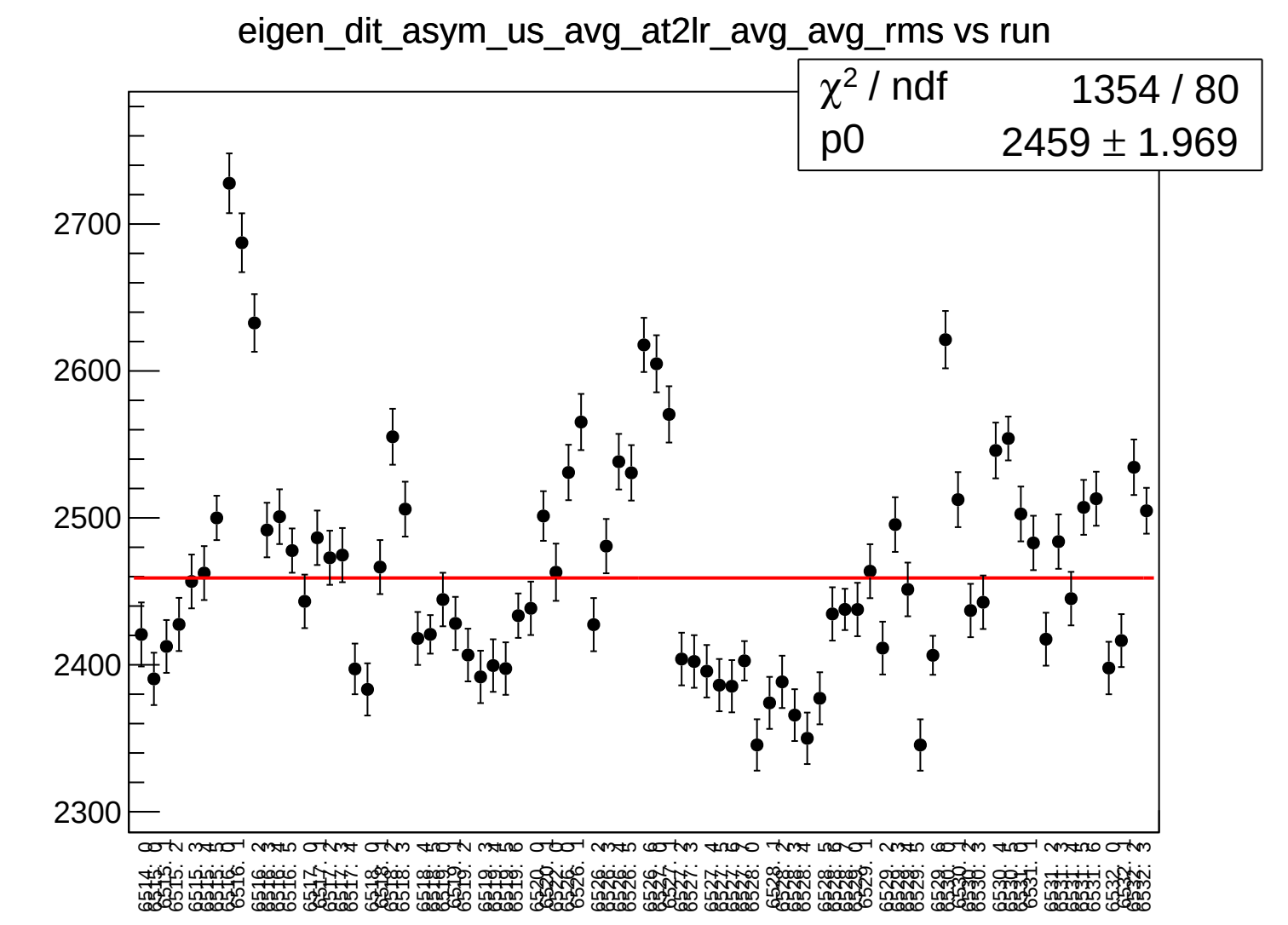

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 88.14 / 80
p0 8828 ± 1.188e+04
pull
Entries 81
Mean −238.1
Std Dev 0

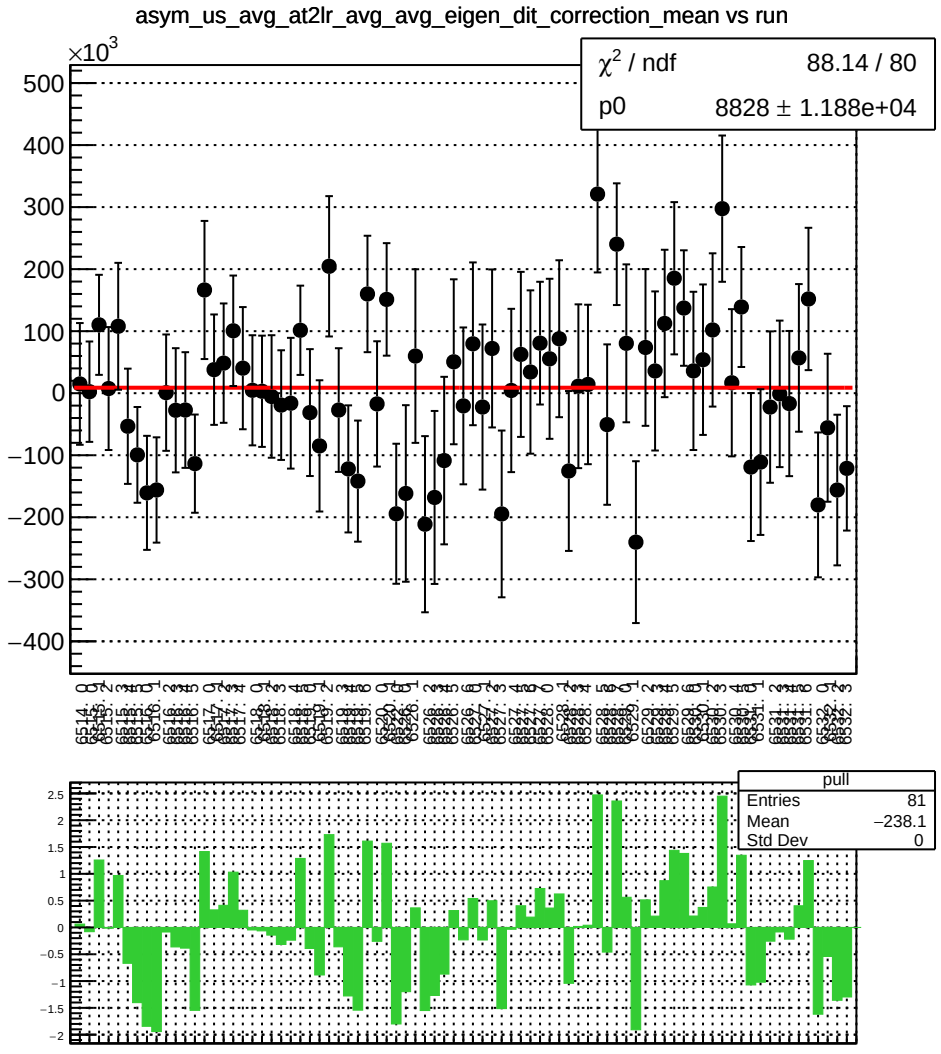

pull1D
Entries 81
Mean −0.008555
Std Dev 1.043

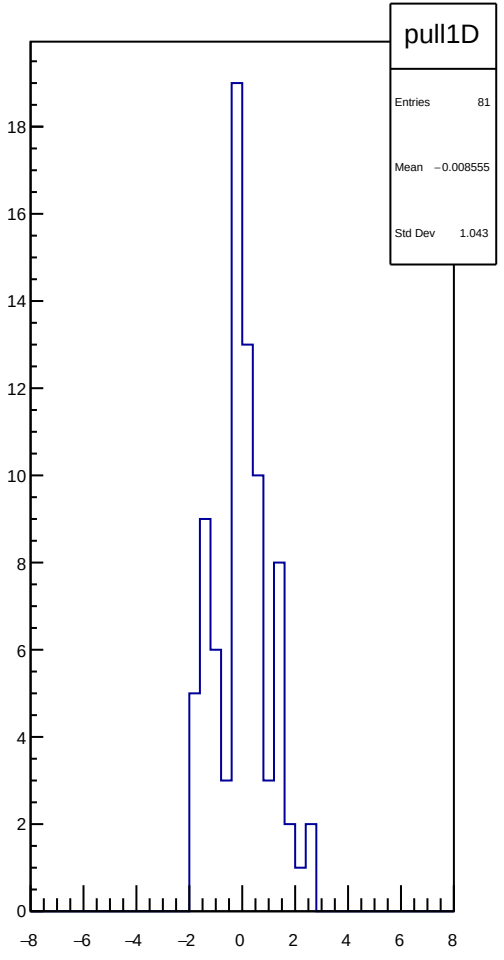

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 3.662e+04 / 80
p0 1.037e+04 ± 8.402
14000
13000
12000
11000
10000
9000
8000
7000

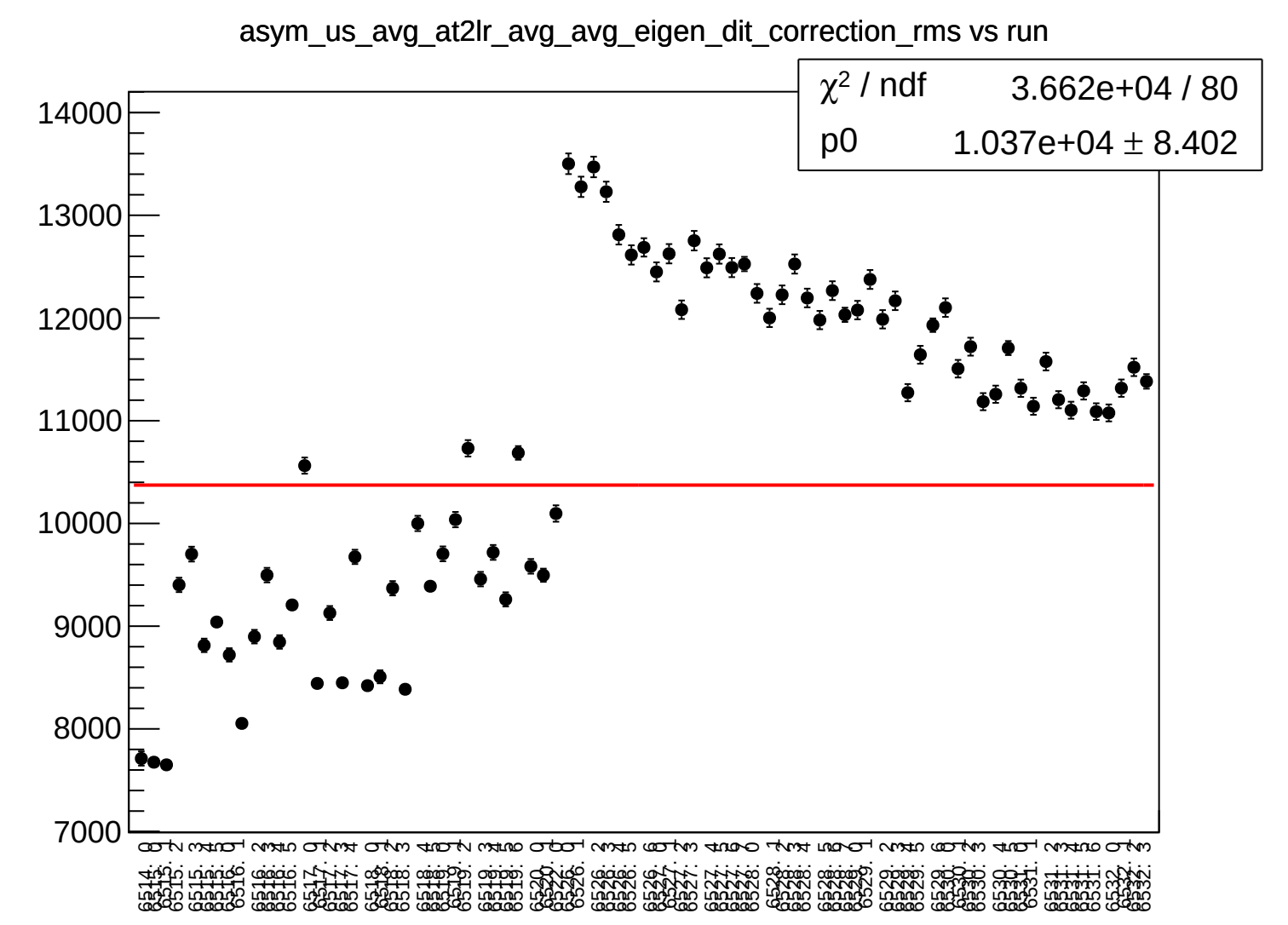

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ^2 / ndf 72.34 / 80
p0 1309 ± 2785
×10^3
pull
Entries 81
Mean −447.8
Std Dev 0

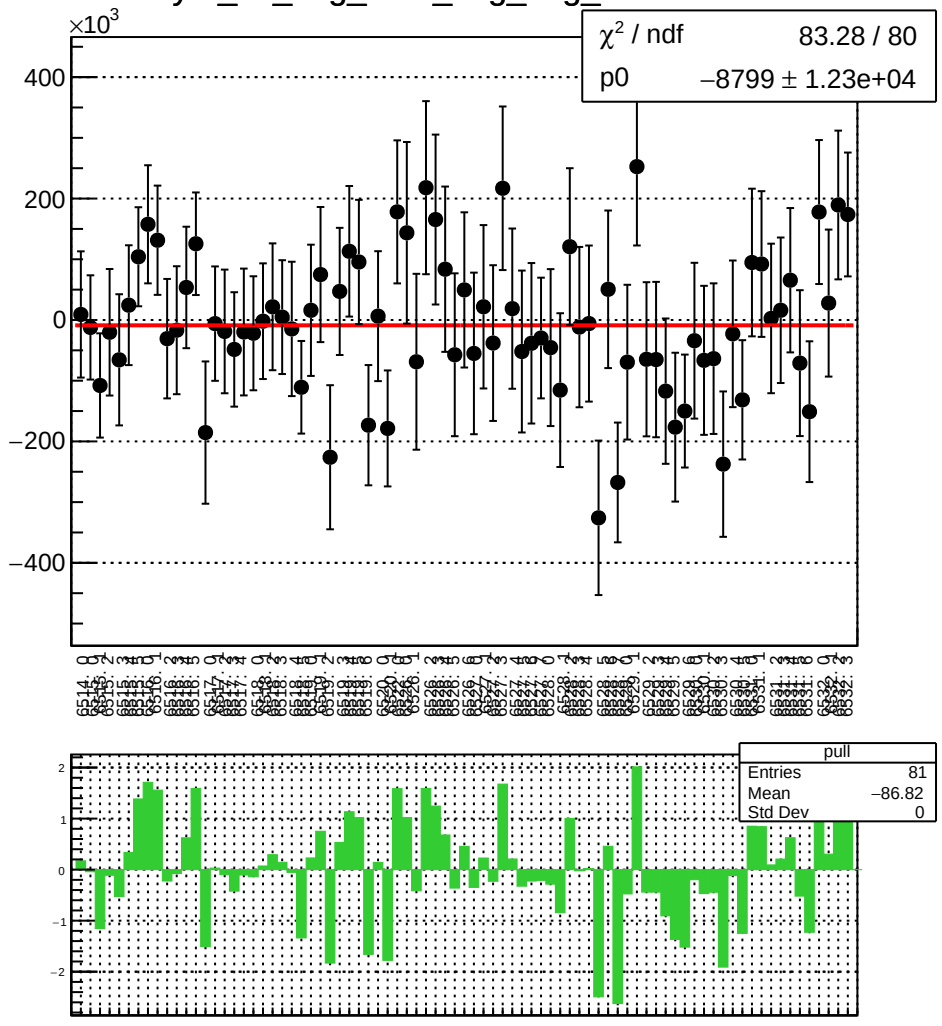

pull1D
Entries 81
Mean −0.005763
Std Dev 0.945

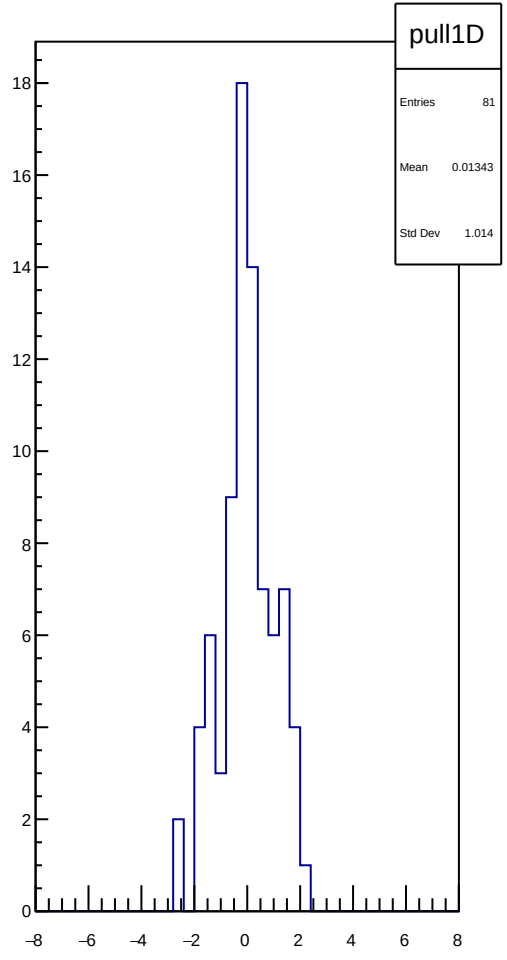

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1354 / 80
p0 2459 ± 1.969
2700
2600
2500
2400
2300

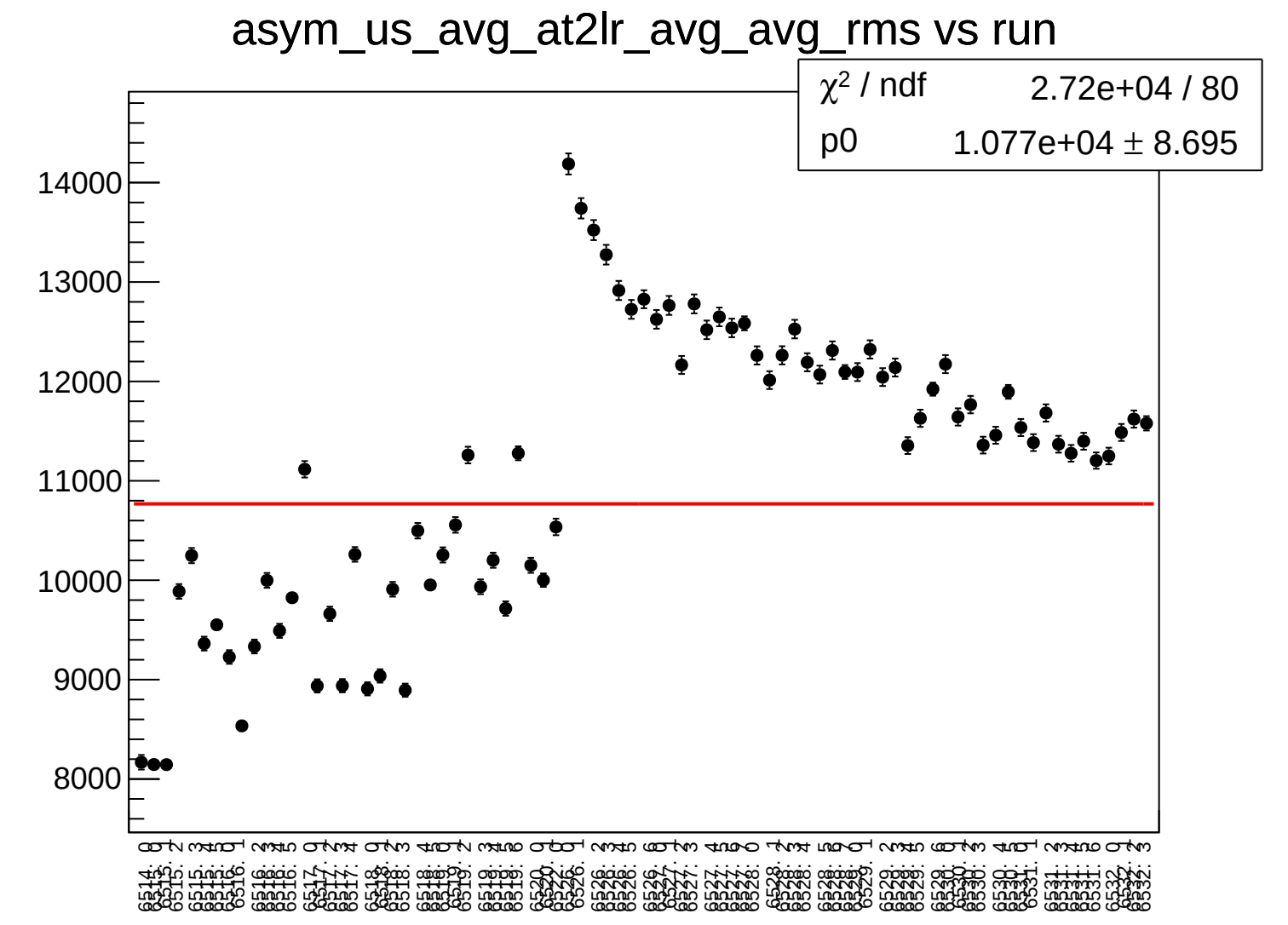

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 88.14 / 80
p0 8828 ± 1.188e+04
pull
Entries 81
Mean −238.1
Std Dev 0

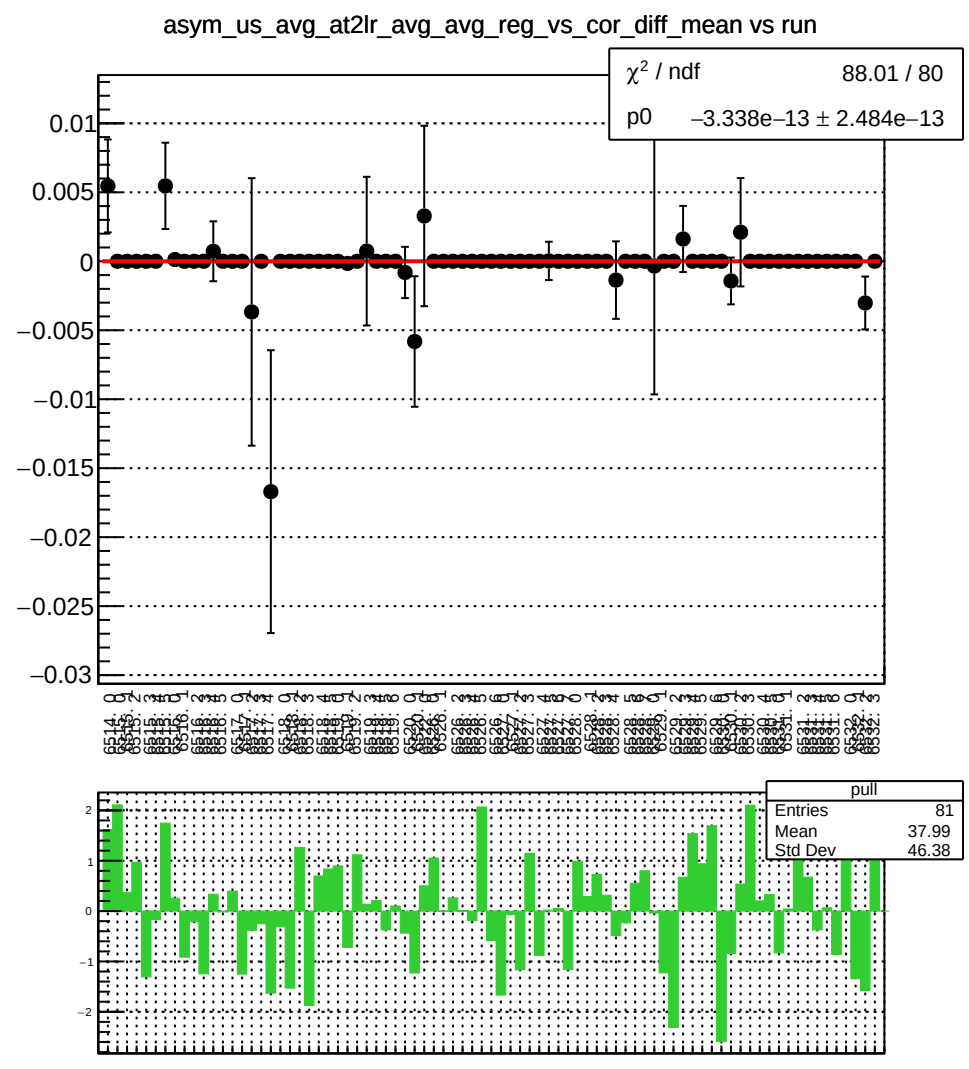

pull1D
Entries 81
Mean −0.008555
Std Dev 1.043

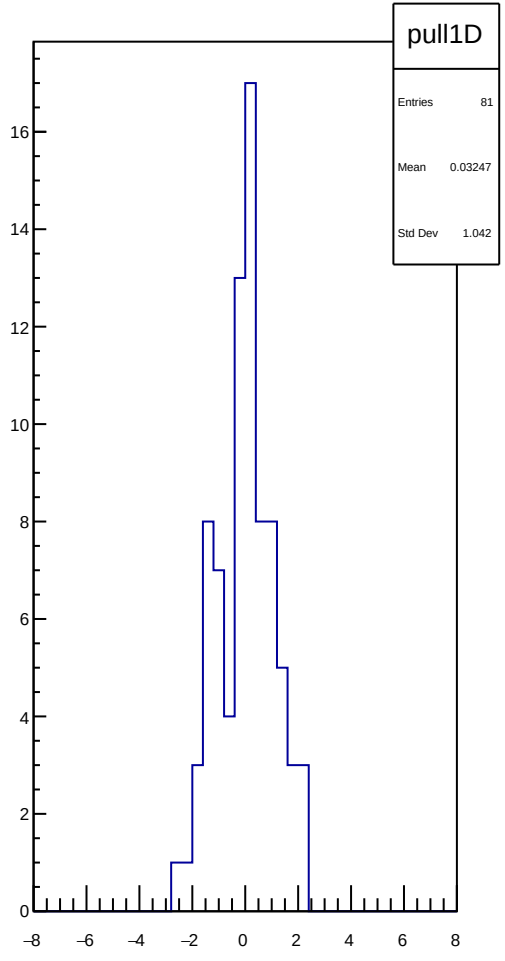

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.662e+04 / 80
p0 1.037e+04 ± 8.402
14000
13000
12000
11000
10000
9000
8000
7000

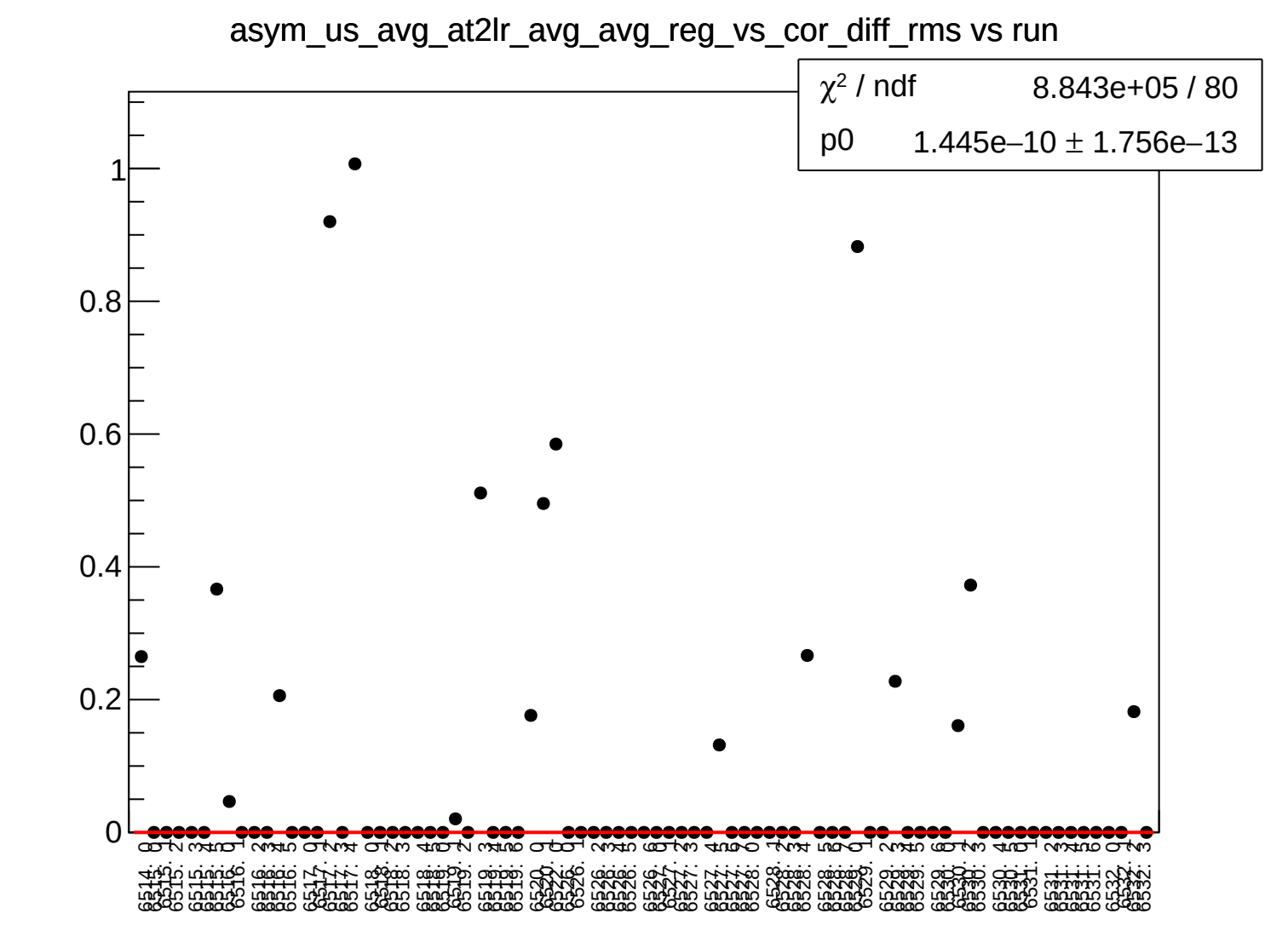

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 83.28 / 80
p0 −8799 ± 1.23e+04
400
200
0
−200
−400
pull
Entries 81
Mean −86.82
Std Dev 0
2
1
0
−1
−2

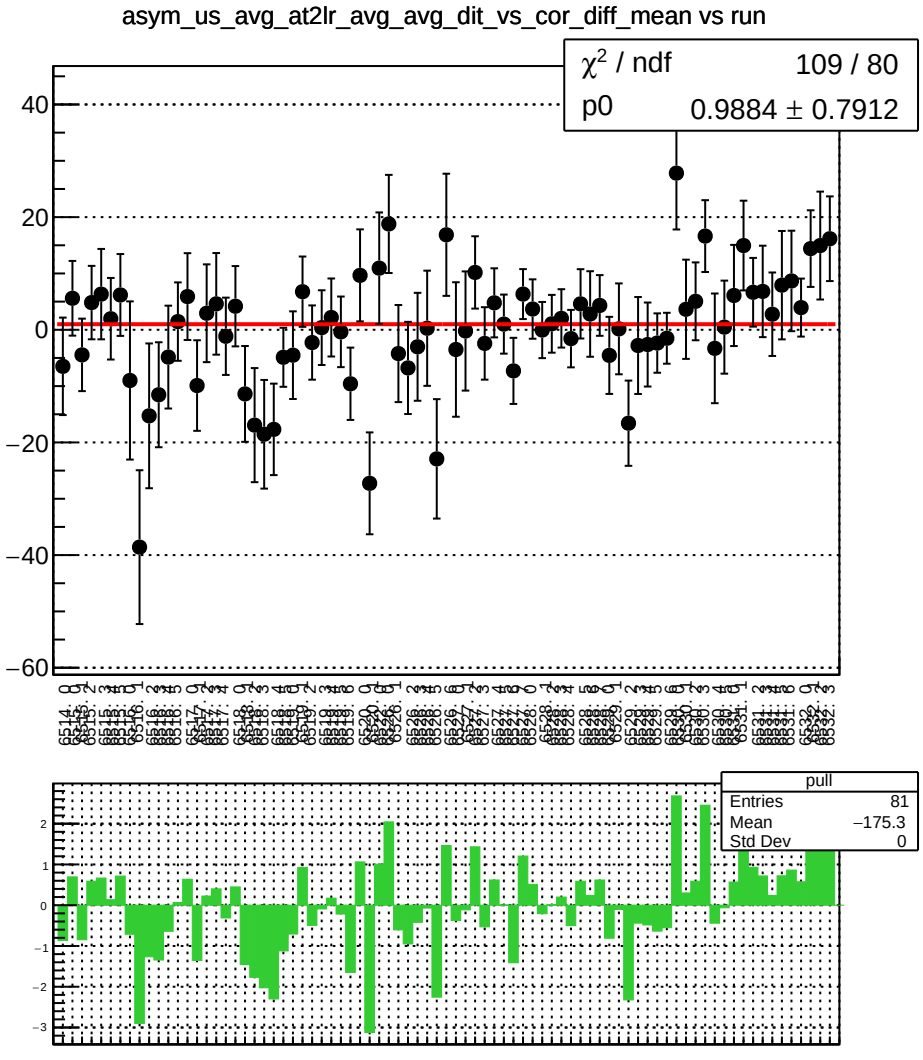

pull1D
Entries 81
Mean 0.01343
Std Dev 1.014
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

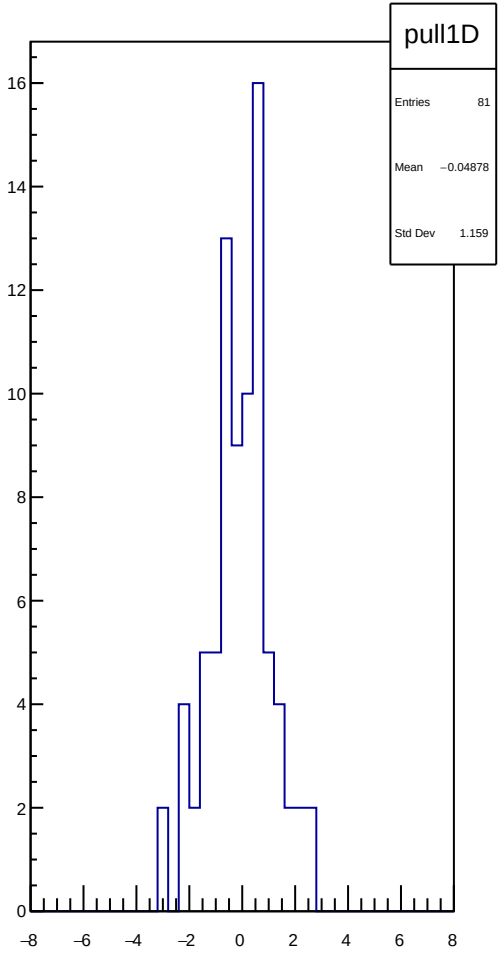

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 2.72e+04 / 80
p0 1.077e+04 ± 8.695
14000
13000
12000
11000
10000
9000
8000

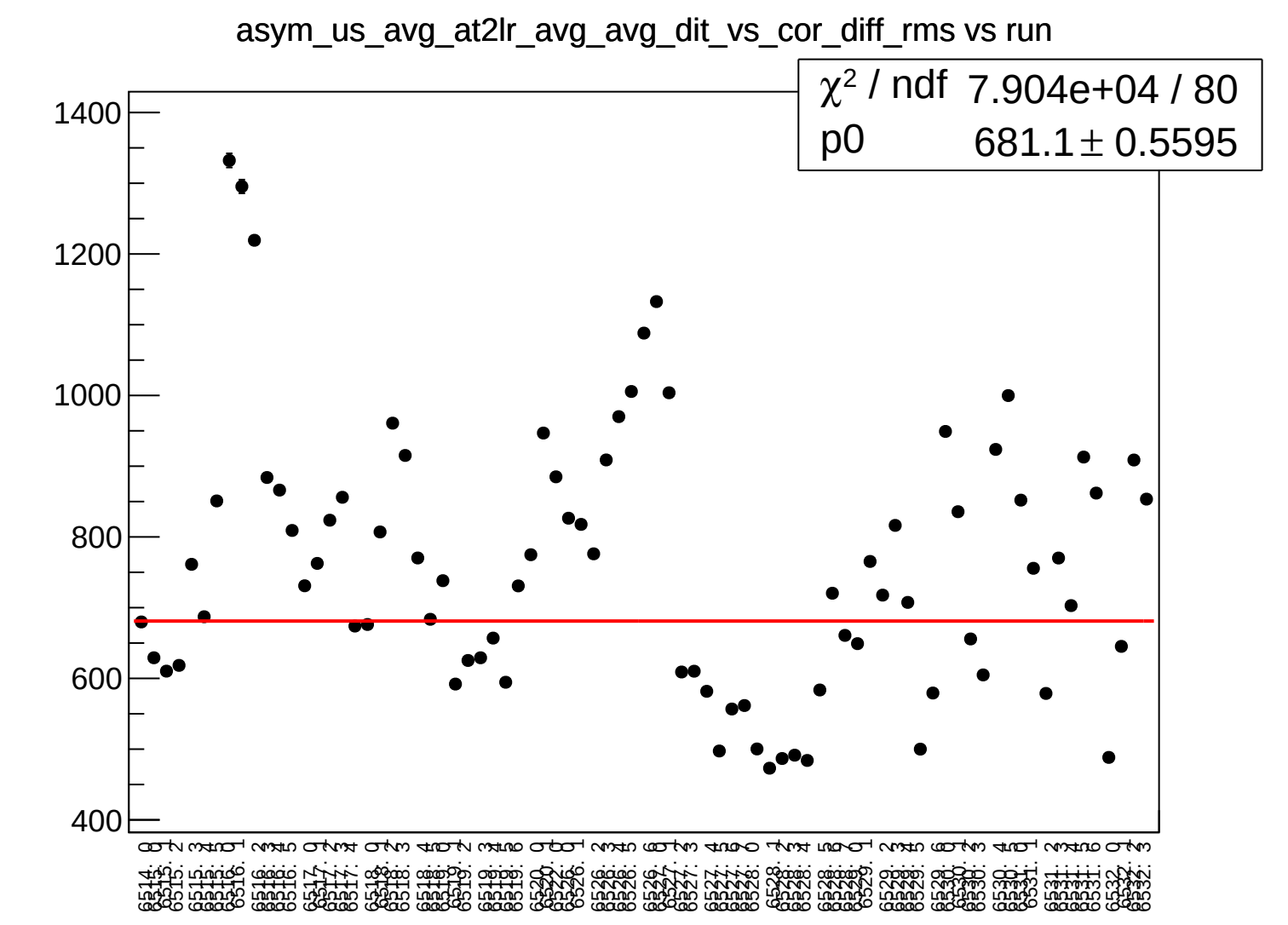

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 88.01 / 80
p0 −3.338e−13 ± 2.484e−13
pull
Entries 81
Mean 37.99
Std Dev 46.38

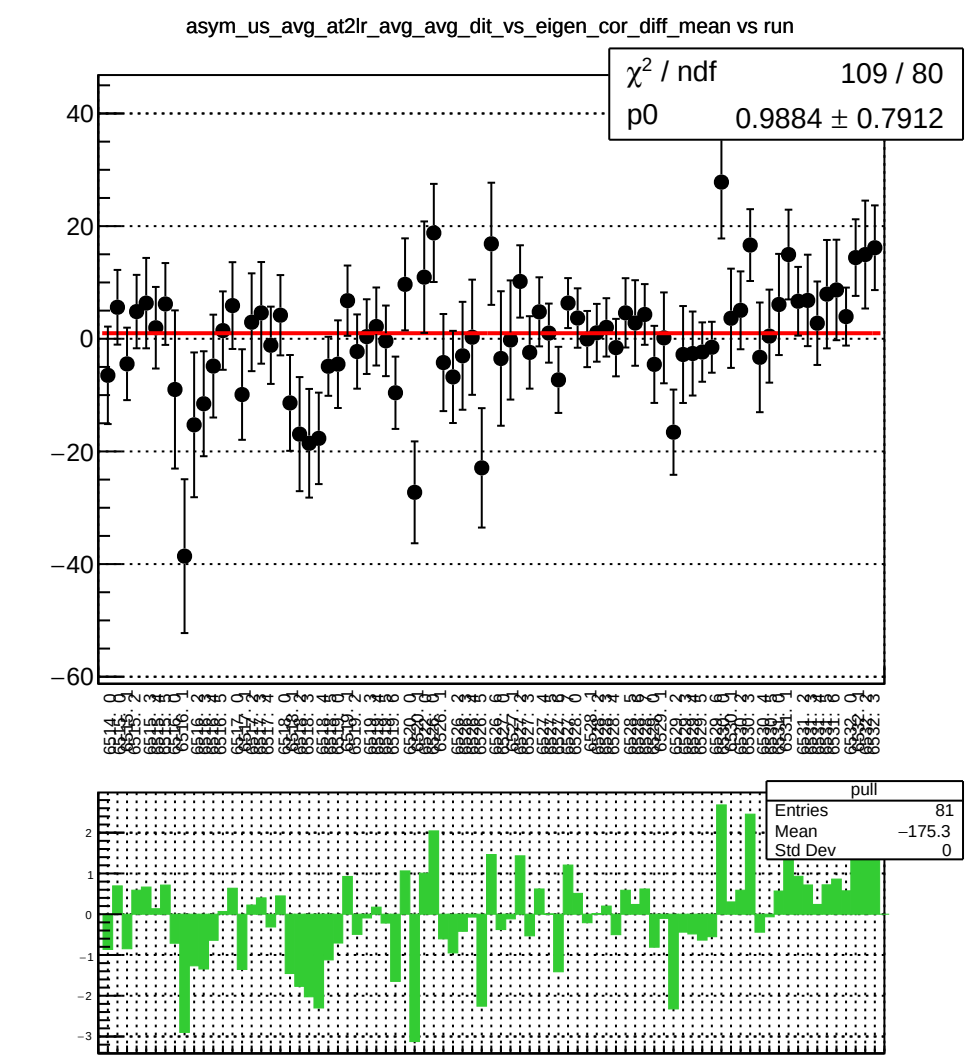

pull1D
Entries 81
Mean 0.03247
Std Dev 1.042

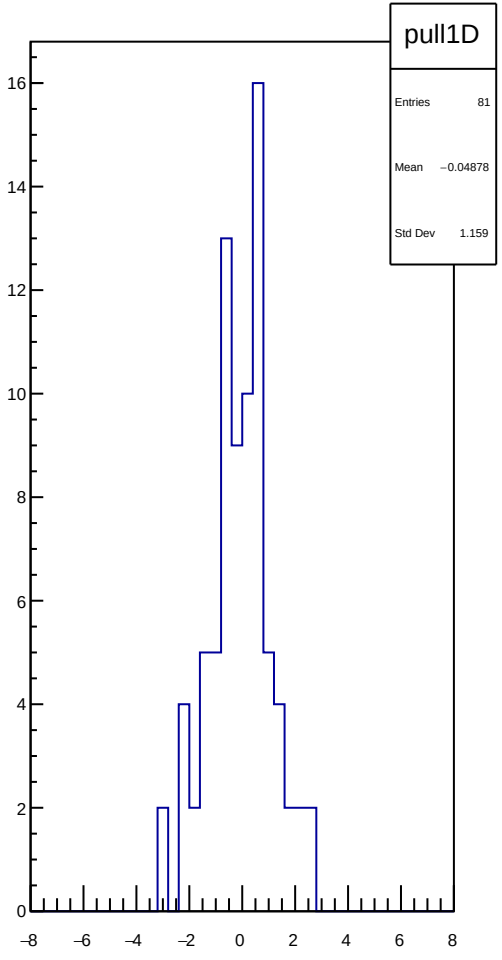

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.843e+05 / 80
p0 1.445e−10 ± 1.756e−13
1
0.8
0.6
0.4
0.2
0

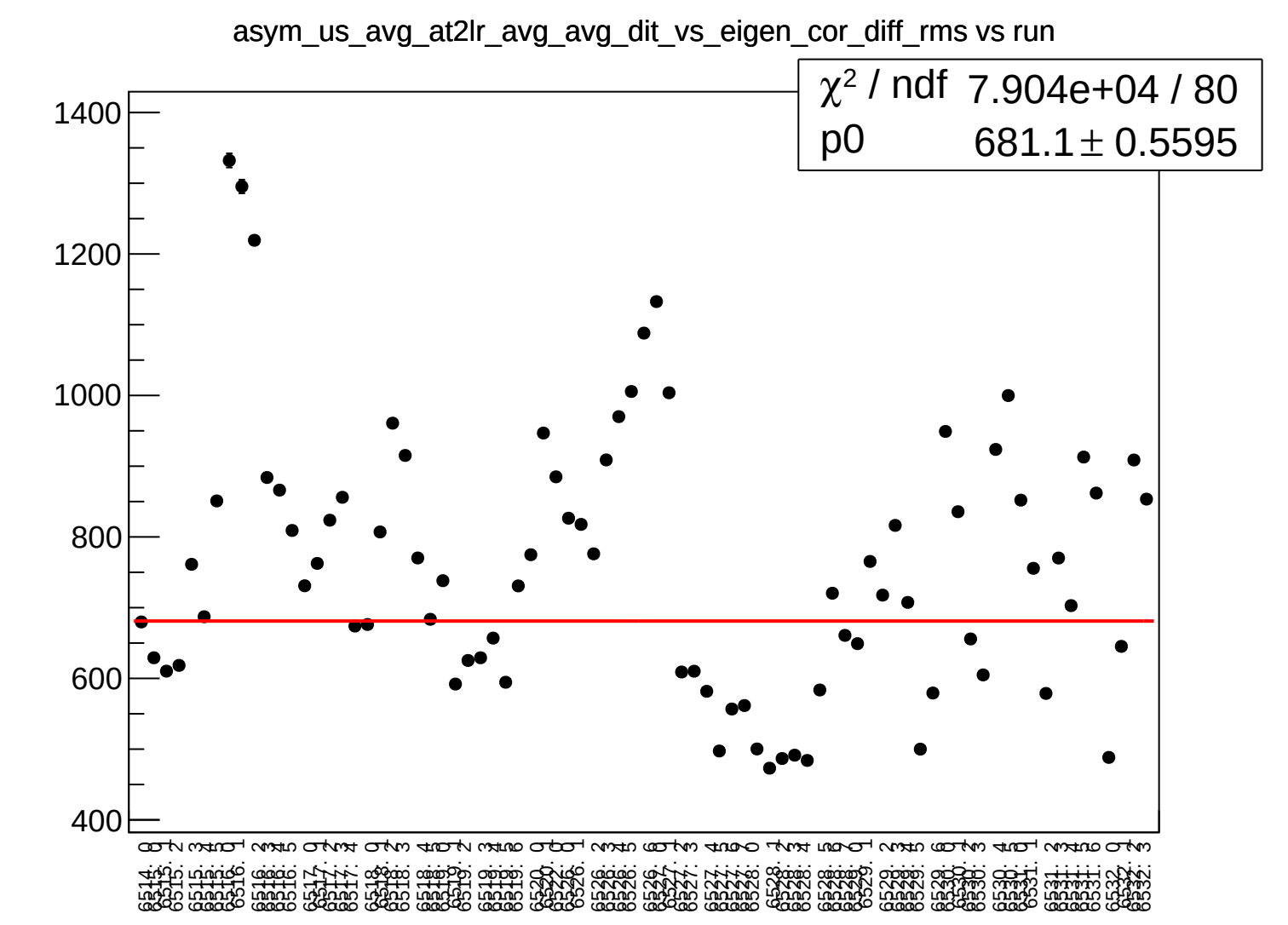

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 109 / 80
p0 0.9884 ± 0.7912
pull
Entries 81
Mean −175.3
Std Dev 0

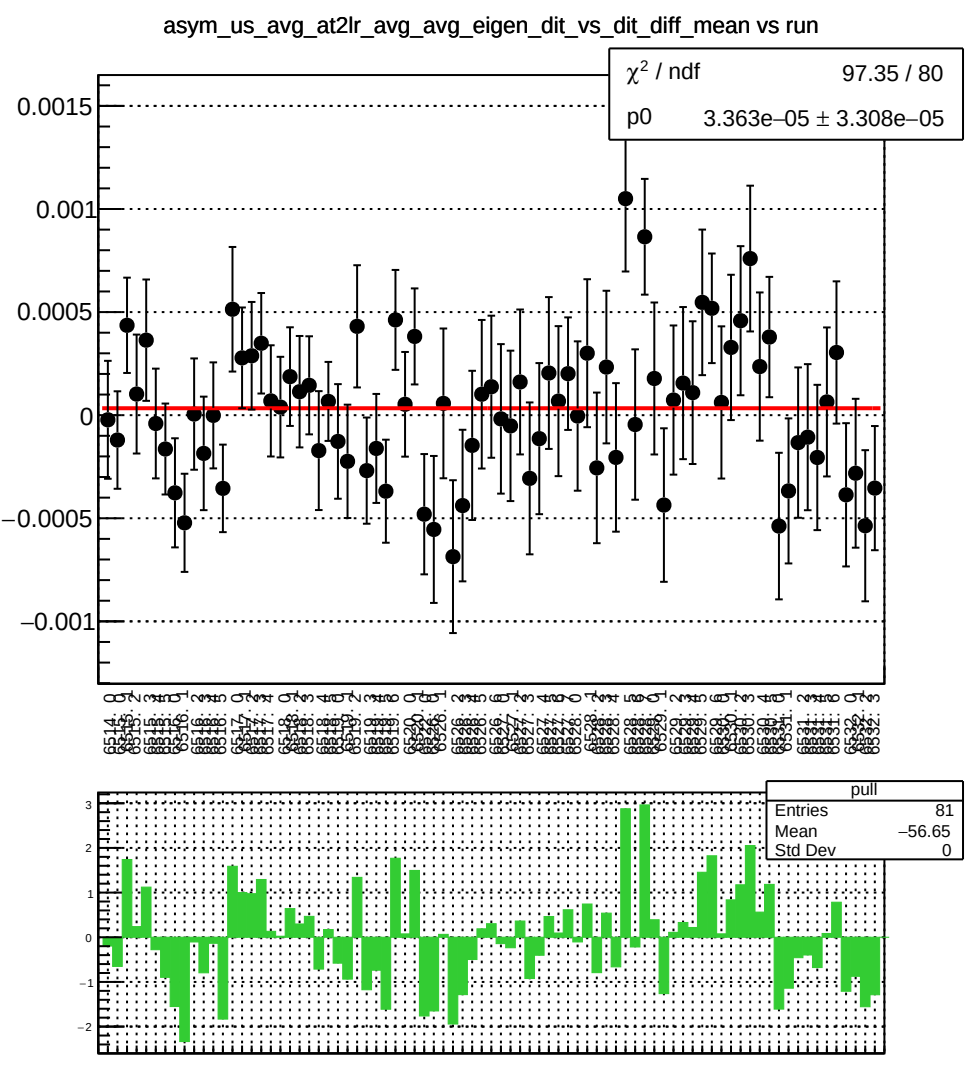

pull1D
Entries 81
Mean −0.04878
Std Dev 1.159

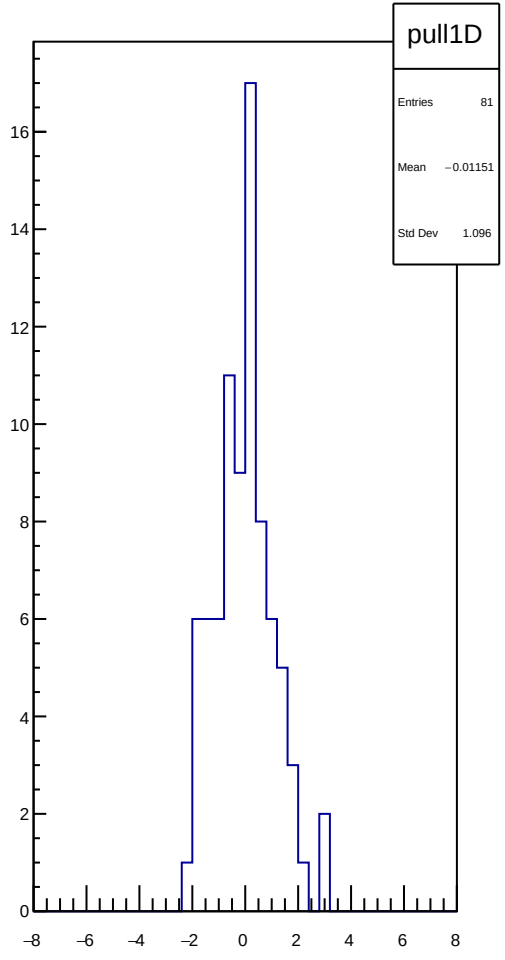

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.904e+04 / 80
p0 681.1 ± 0.5595
1400
1200
1000
800
600
400

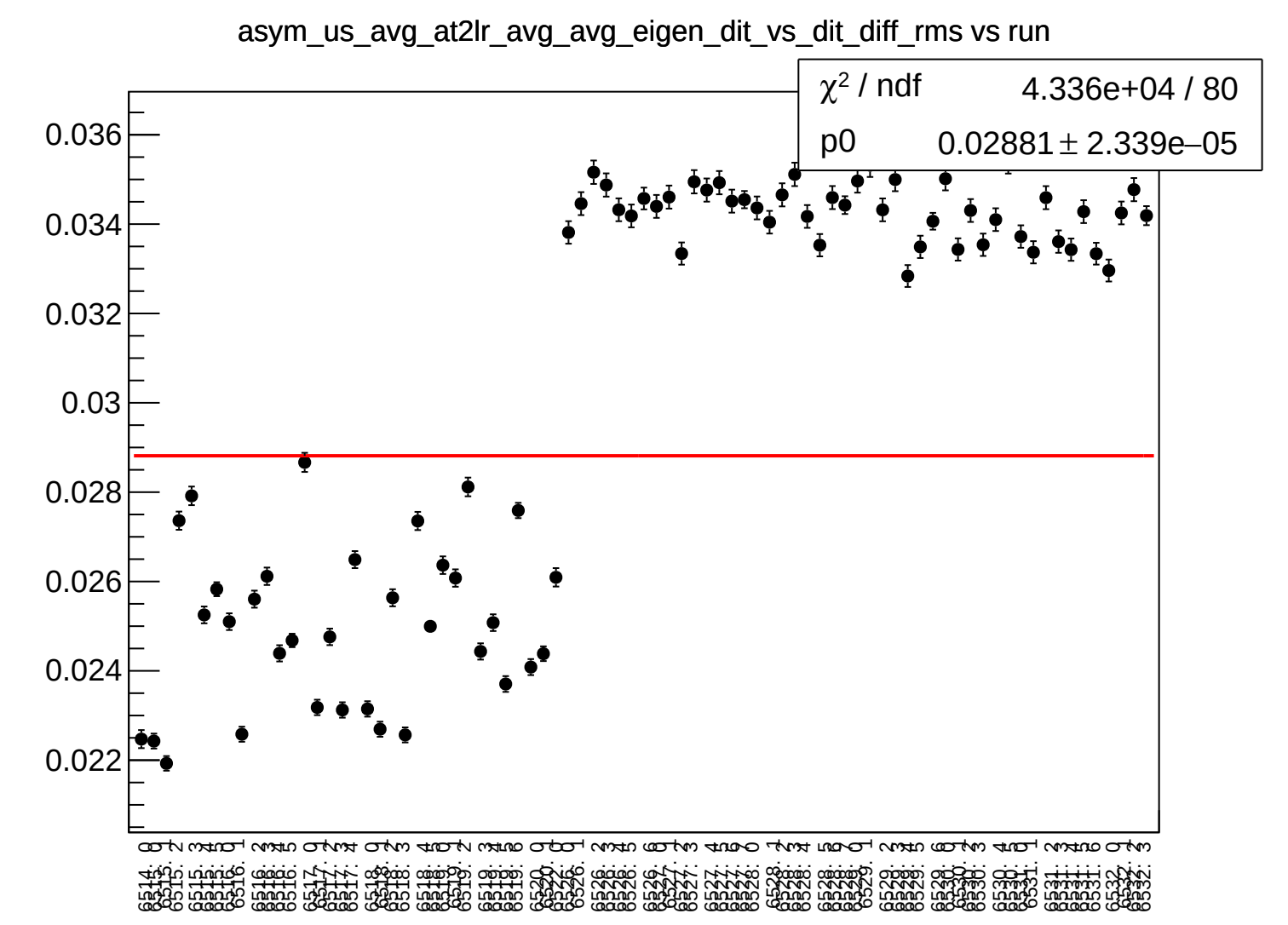

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109 / 80
p0 0.9884 ± 0.7912
pull
Entries 81
Mean −175.3
Std Dev 0

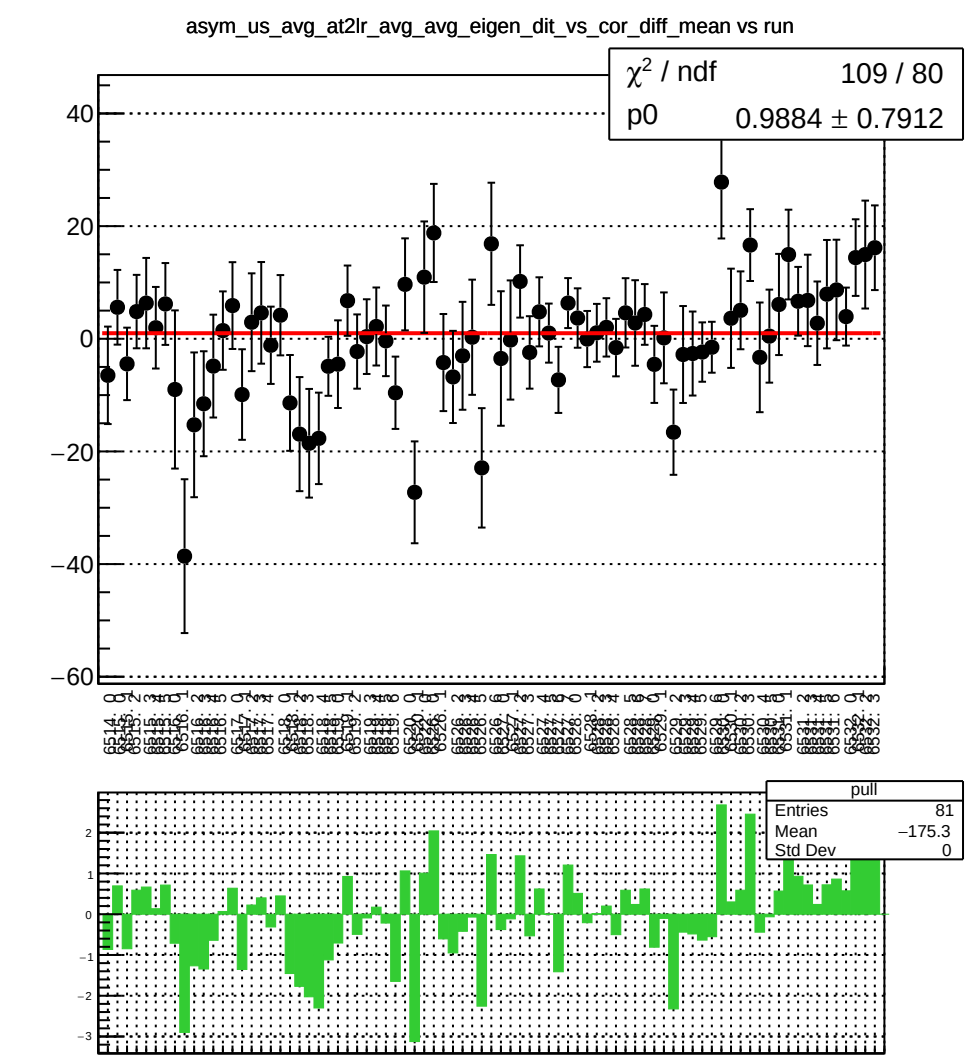

pull1D
Entries 81
Mean −0.04878
Std Dev 1.159

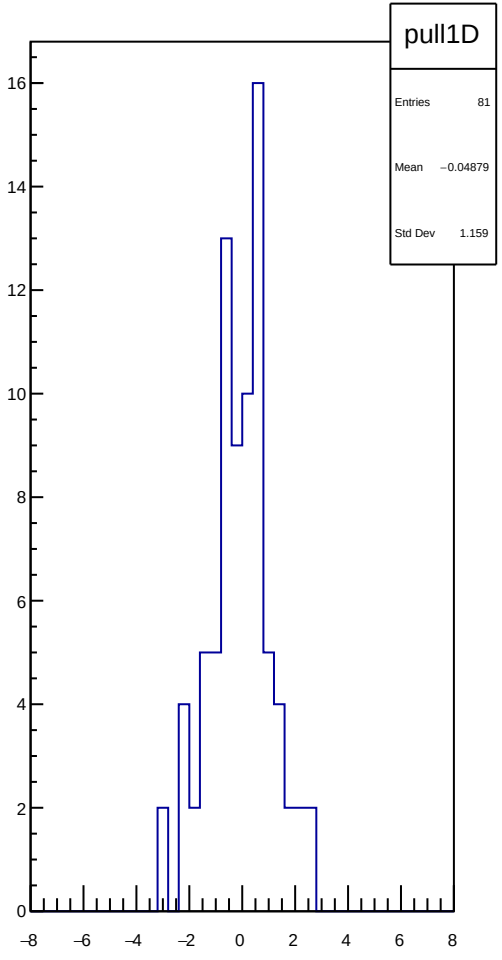

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.904e+04 / 80
p0 681.1 ± 0.5595
1400
1200
1000
800
600
400

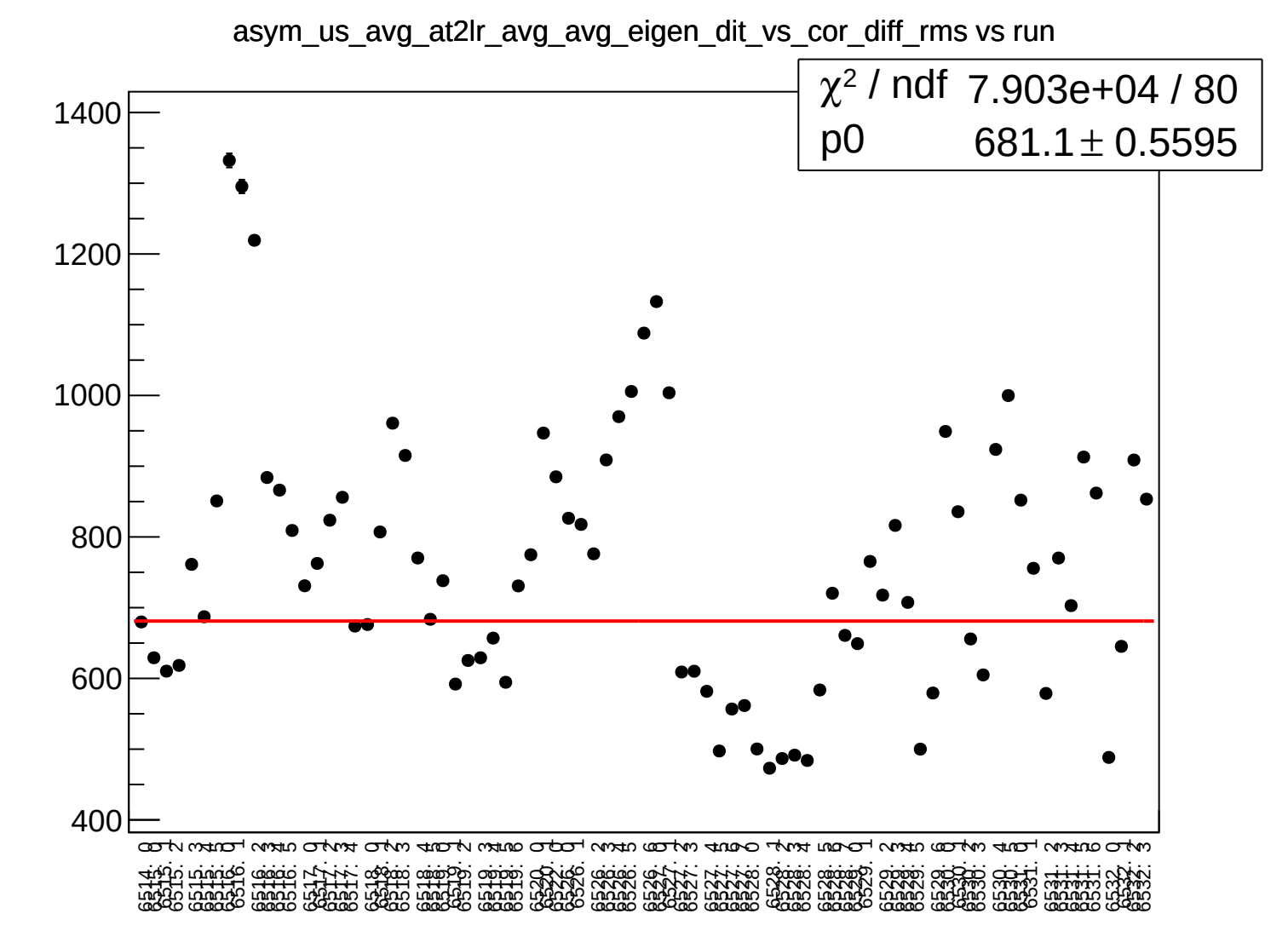

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 97.35 / 80
p0 3.363e−05 ± 3.308e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 81
Mean −56.65
Std Dev 0
3
2
1
0
−1
−2

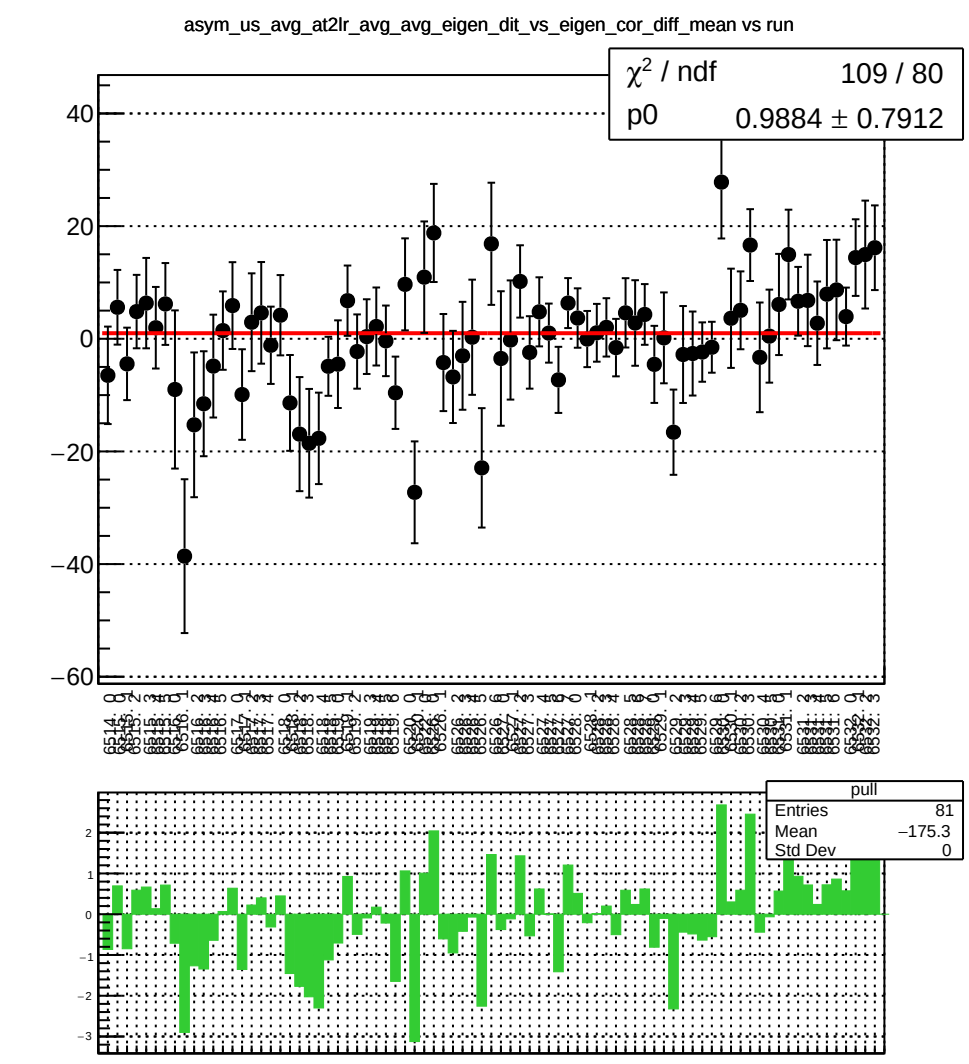

pull1D
Entries 81
Mean −0.01151
Std Dev 1.096
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

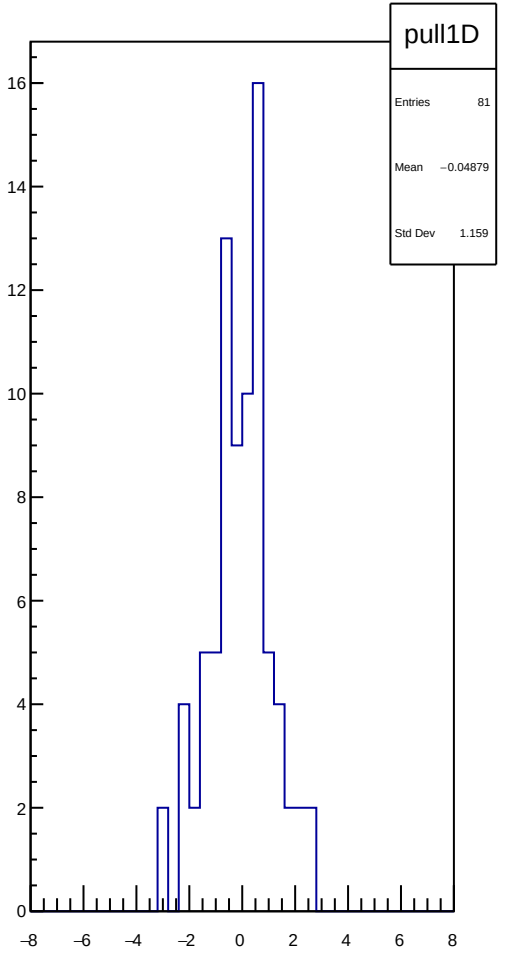

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.336e+04 / 80
p0 0.02881 ± 2.339e–05
0.036
0.034
0.032
0.03
0.028
0.026
0.024
0.022

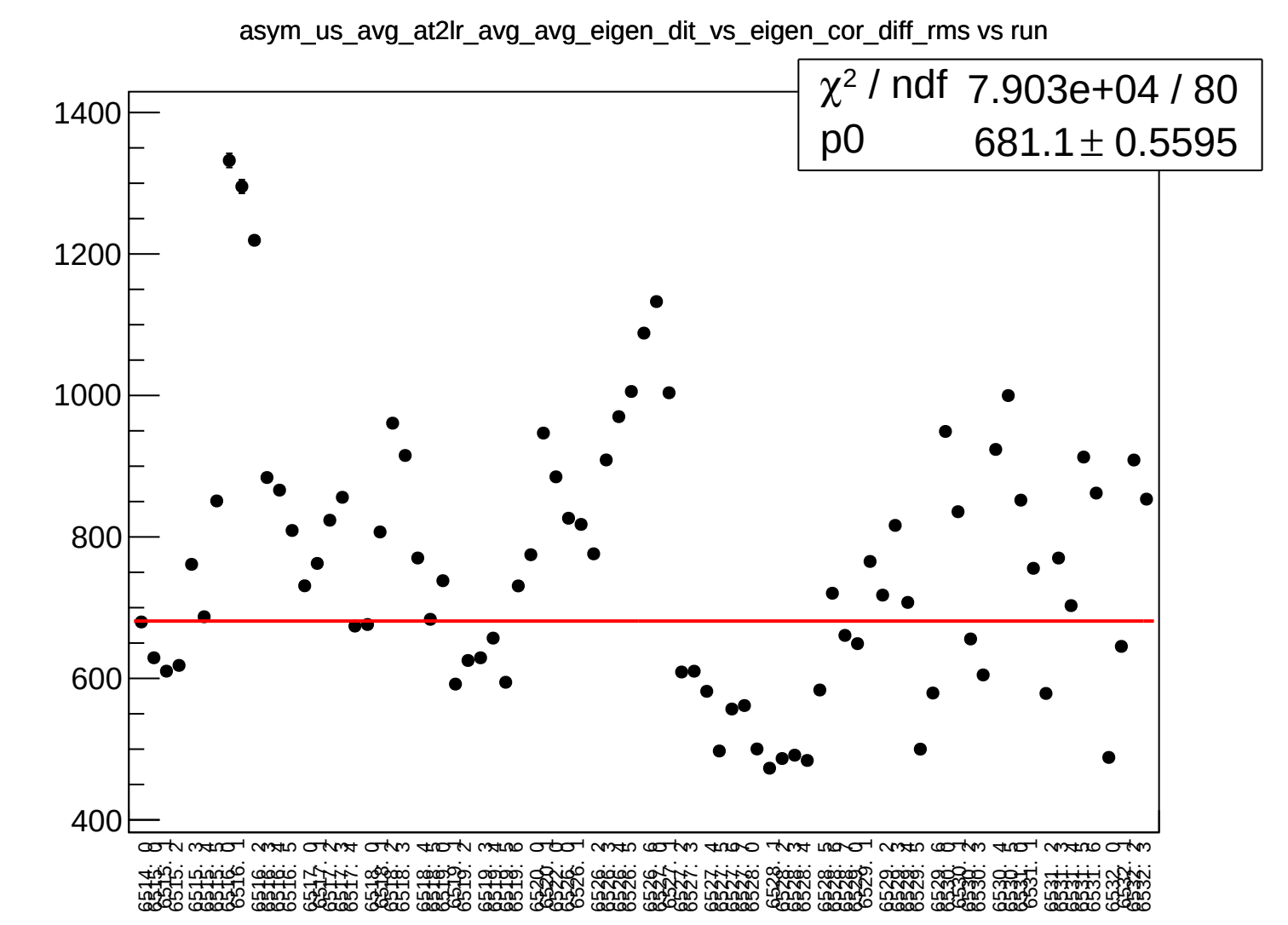

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 109 / 80
p0 0.9884 ± 0.7912
pull
Entries 81
Mean −175.3
Std Dev 0

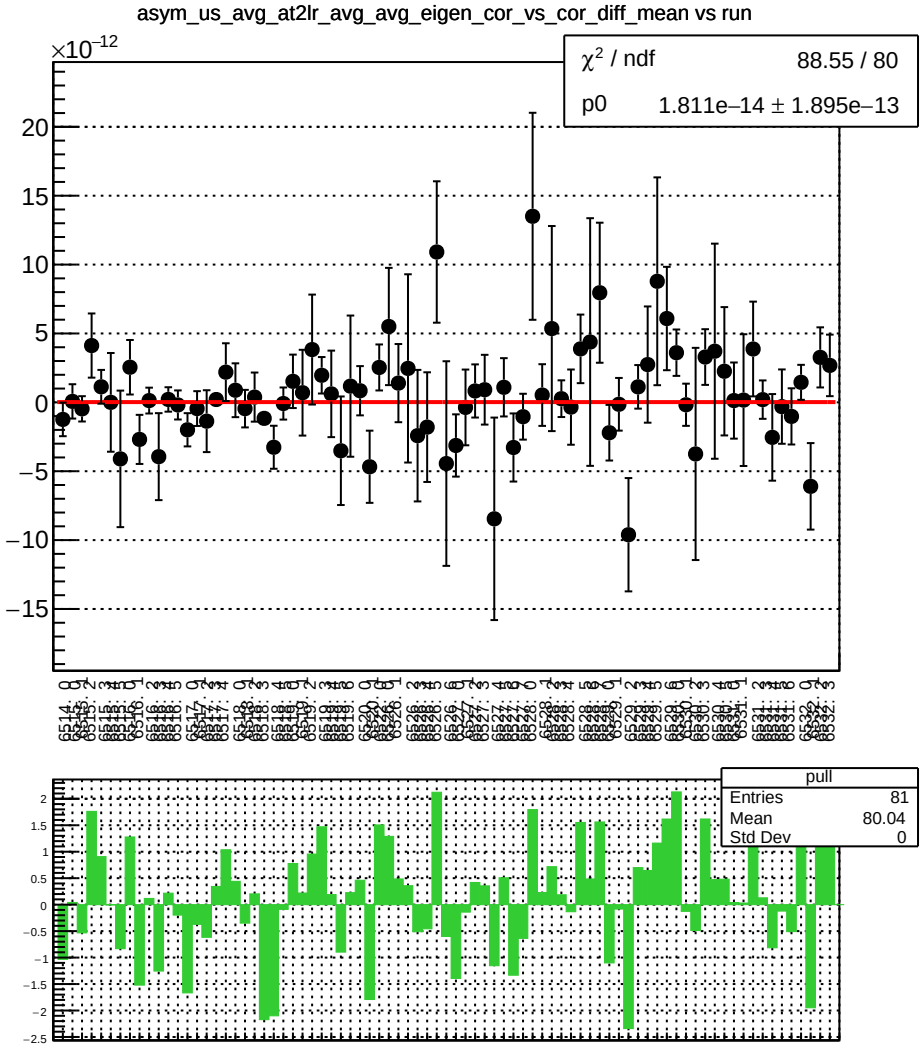

pull1D
Entries 81
Mean −0.04879
Std Dev 1.159

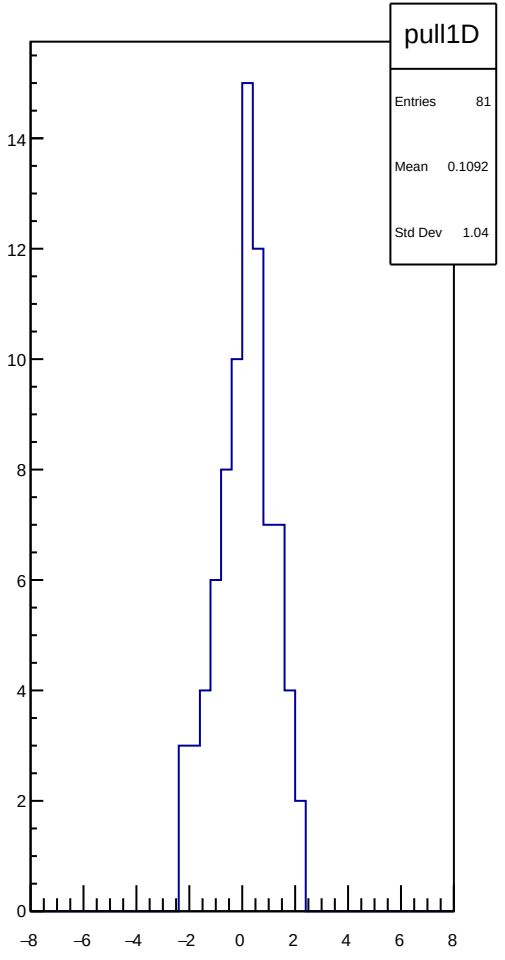

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.903e+04 / 80
p0 681.1 ± 0.5595
1400
1200
1000
800
600
400

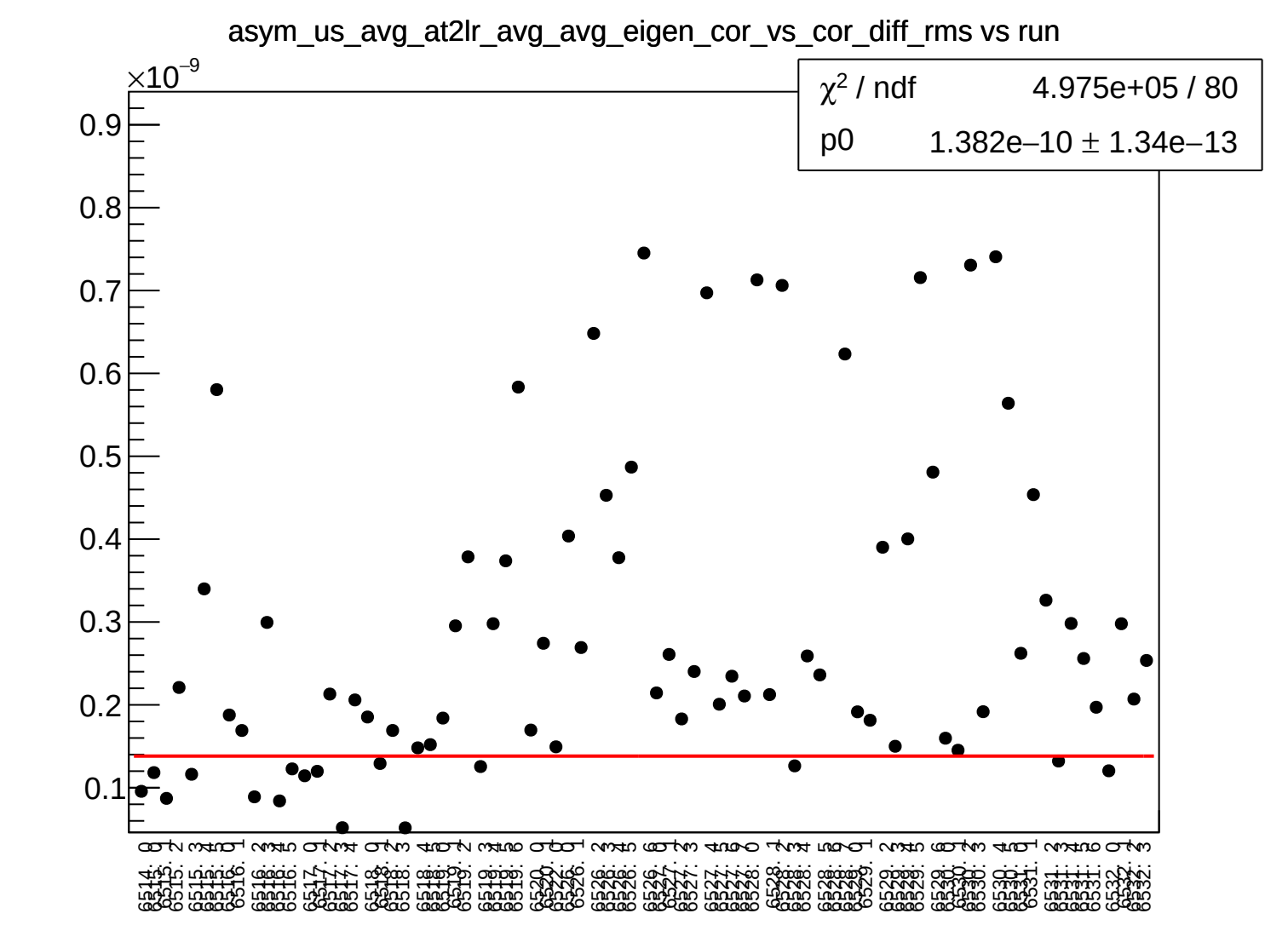

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109 / 80
p0 0.9884 ± 0.7912
pull
Entries 81
Mean −175.3
Std Dev 0

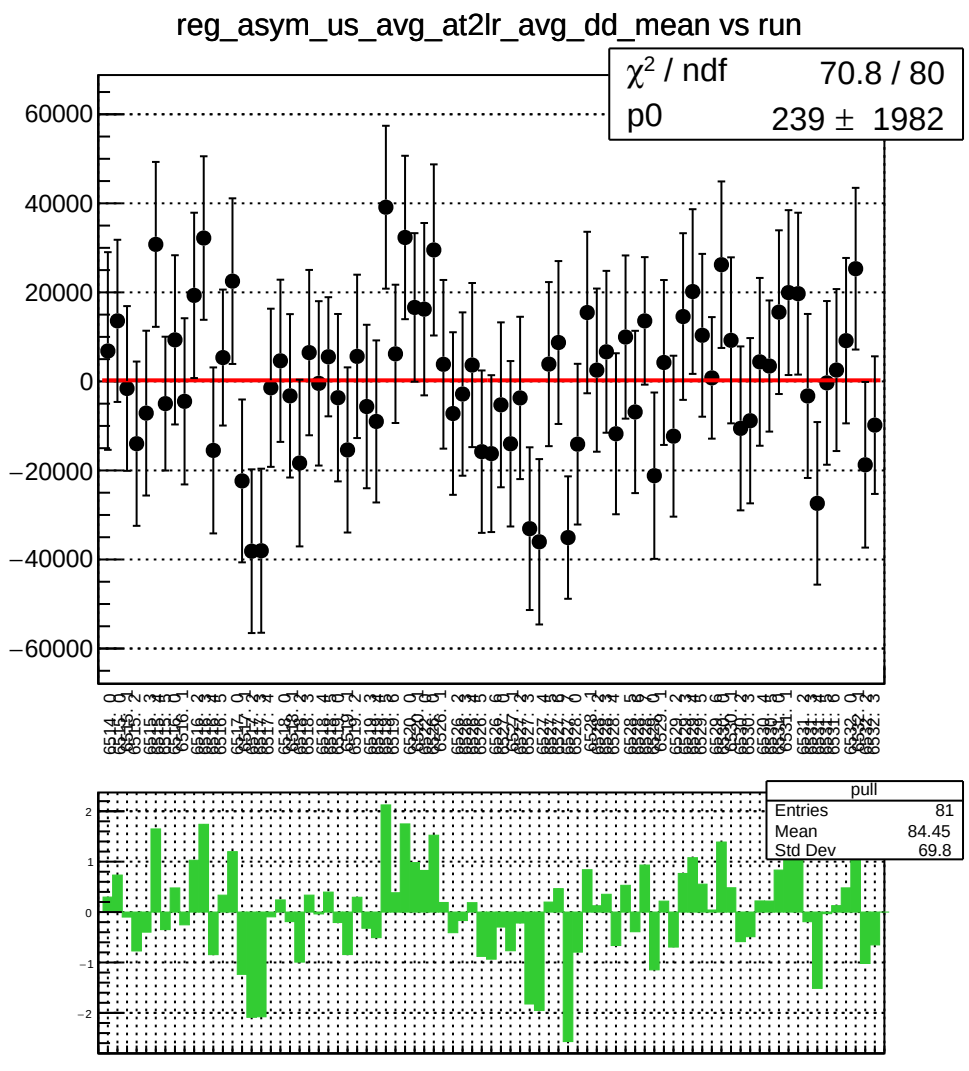

pull1D
Entries 81
Mean −0.04879
Std Dev 1.159

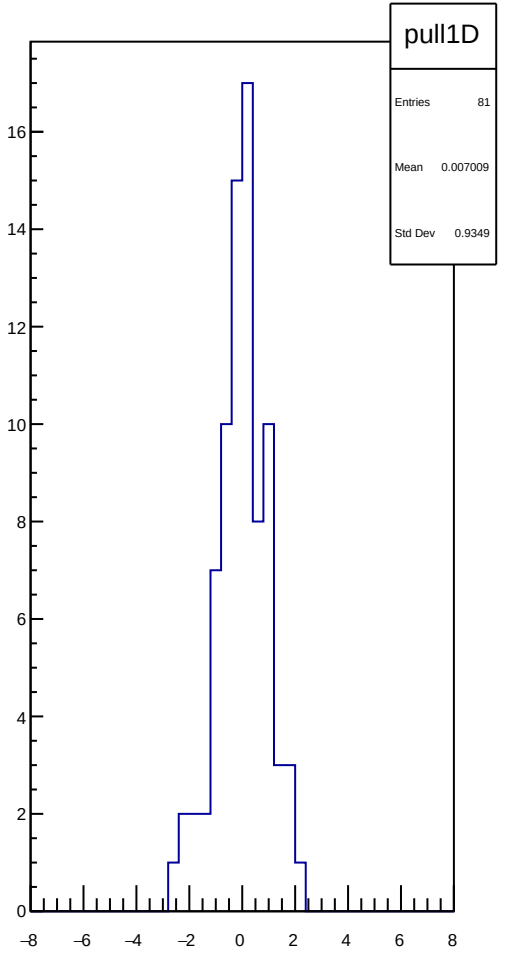

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.903e+04 / 80
p0 681.1 ± 0.5595
1400
1200
1000
800
600
400

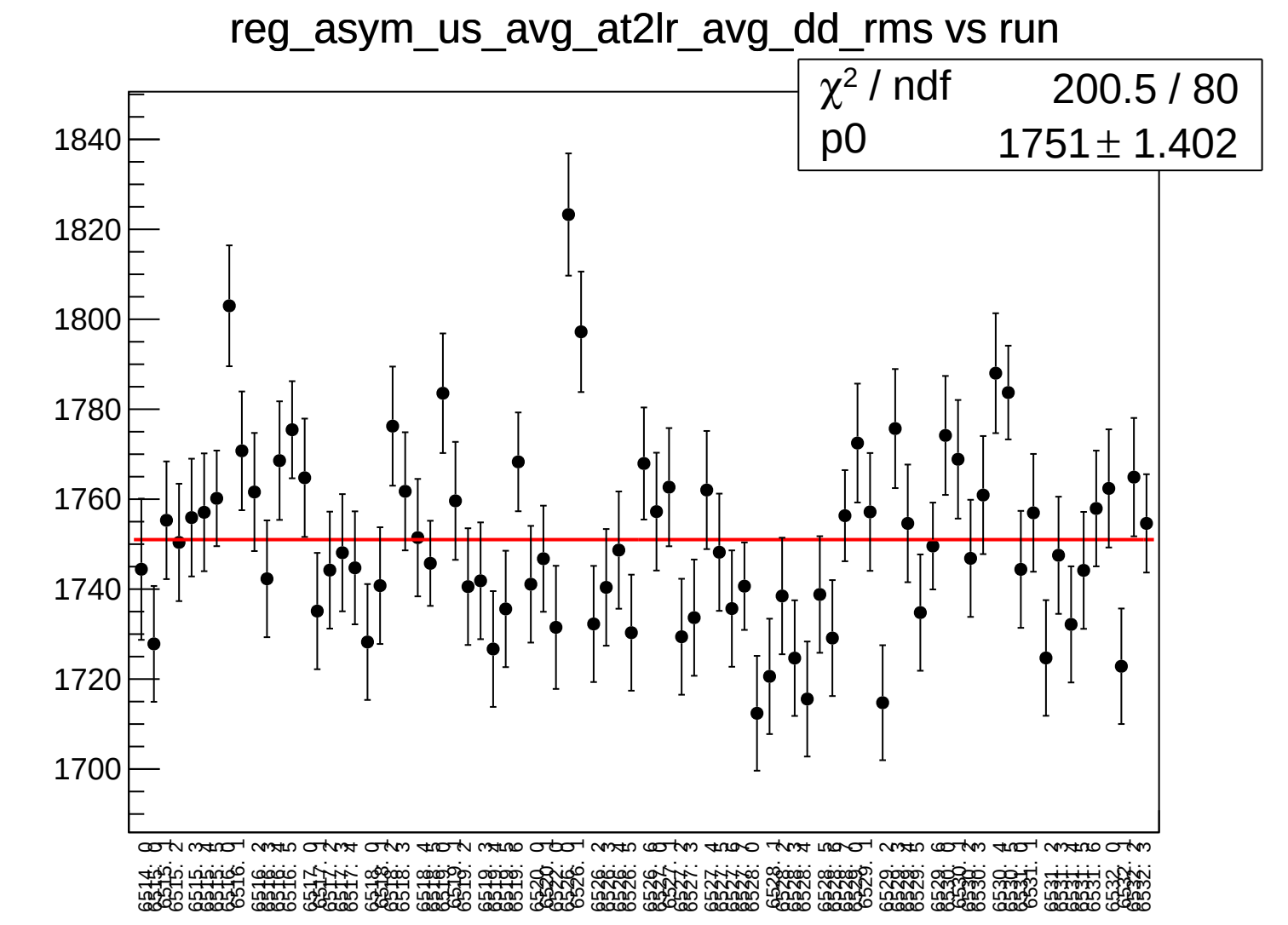

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.55 / 80
p0 1.811e−14 ± 1.895e−13
pull
Entries 81
Mean 80.04
Std Dev 0

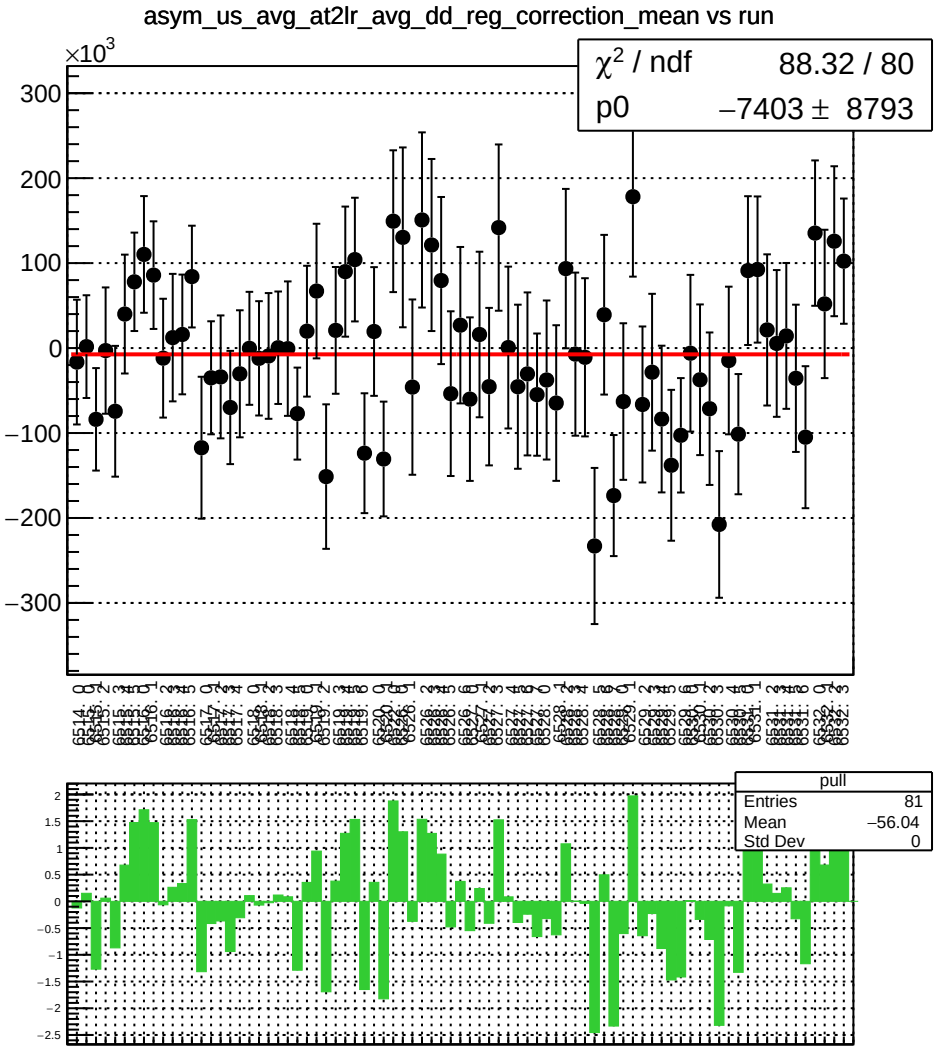

pull1D
Entries 81
Mean 0.1092
Std Dev 1.04

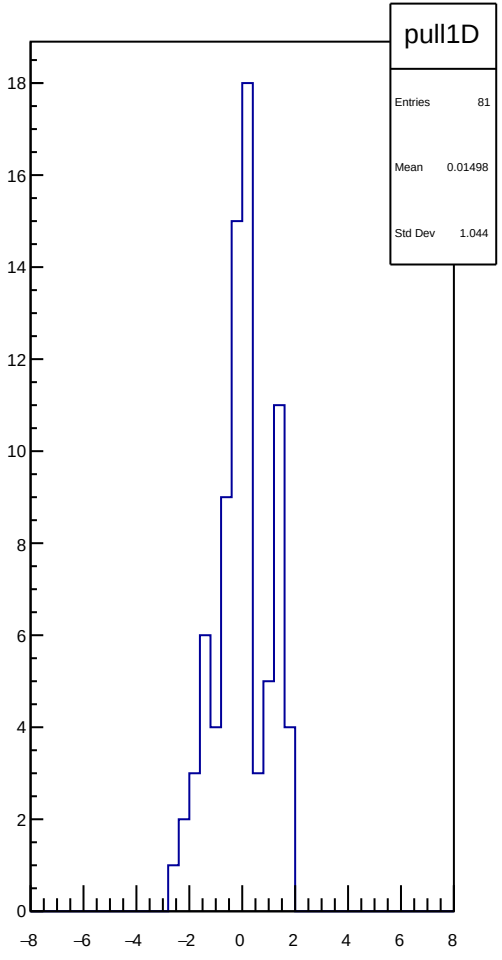

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.975e+05 / 80
p0 1.382e−10 ± 1.34e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

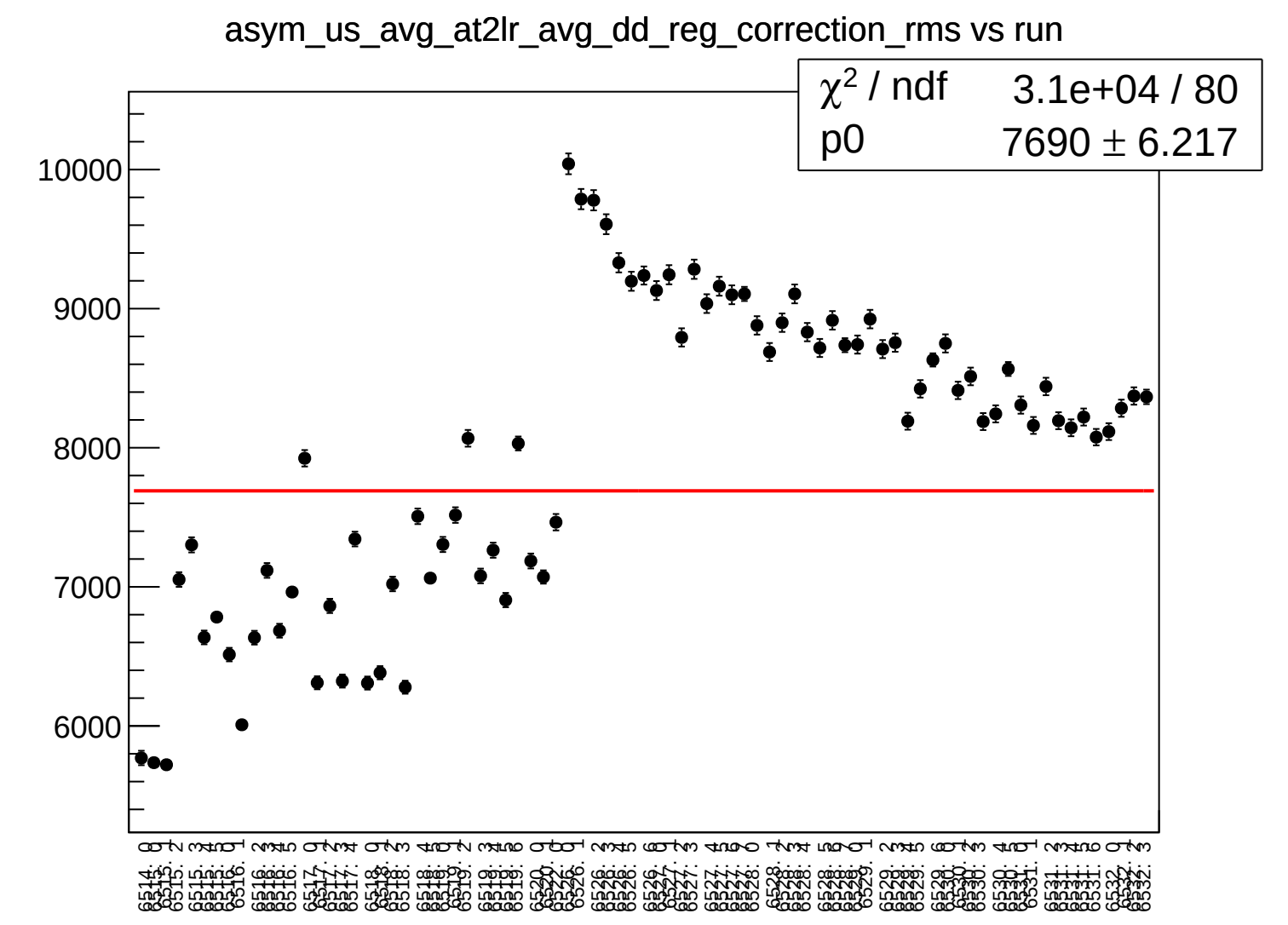

reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 70.8 / 80
p0 239 ± 1982
pull
Entries 81
Mean 84.45
Std Dev 69.8

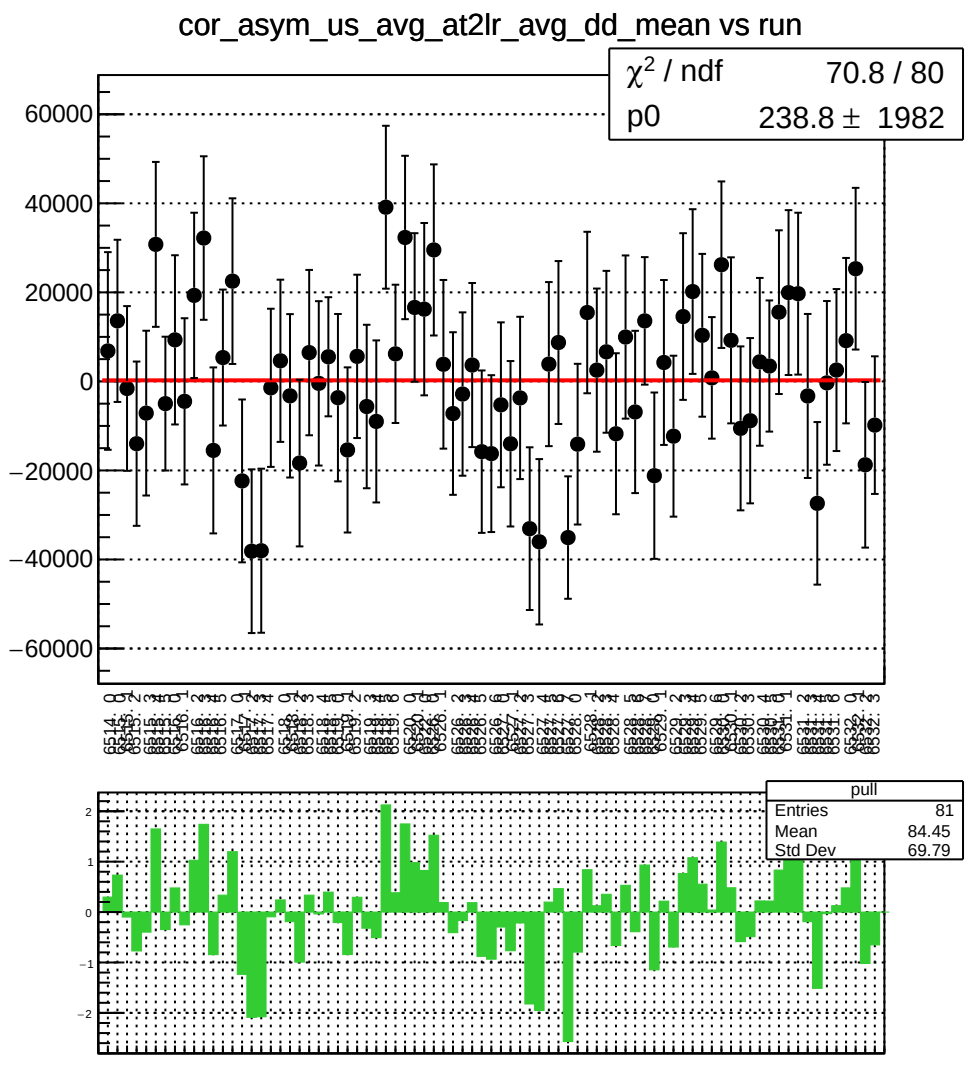

pull1D
Entries 81
Mean 0.007009
Std Dev 0.9349

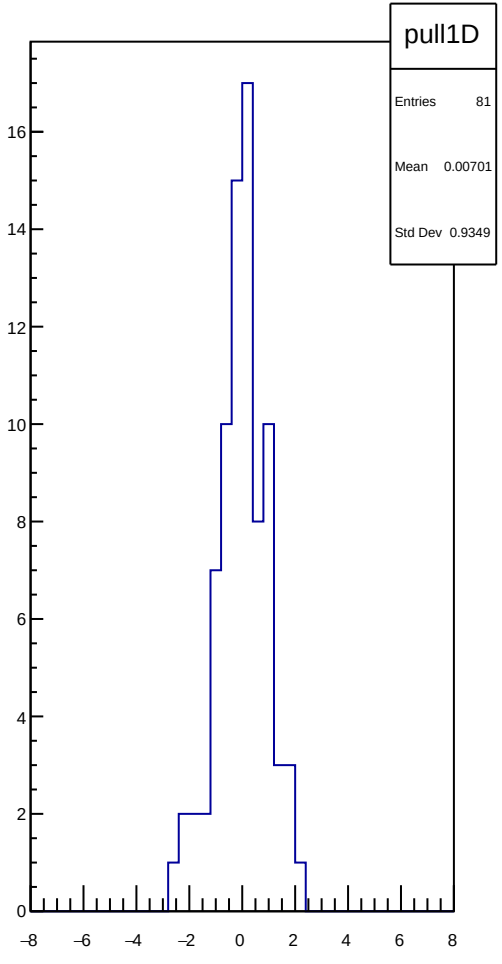

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 200.5 / 80
p0 1751 ± 1.402
1840
1820
1800
1780
1760
1740
1720
1700

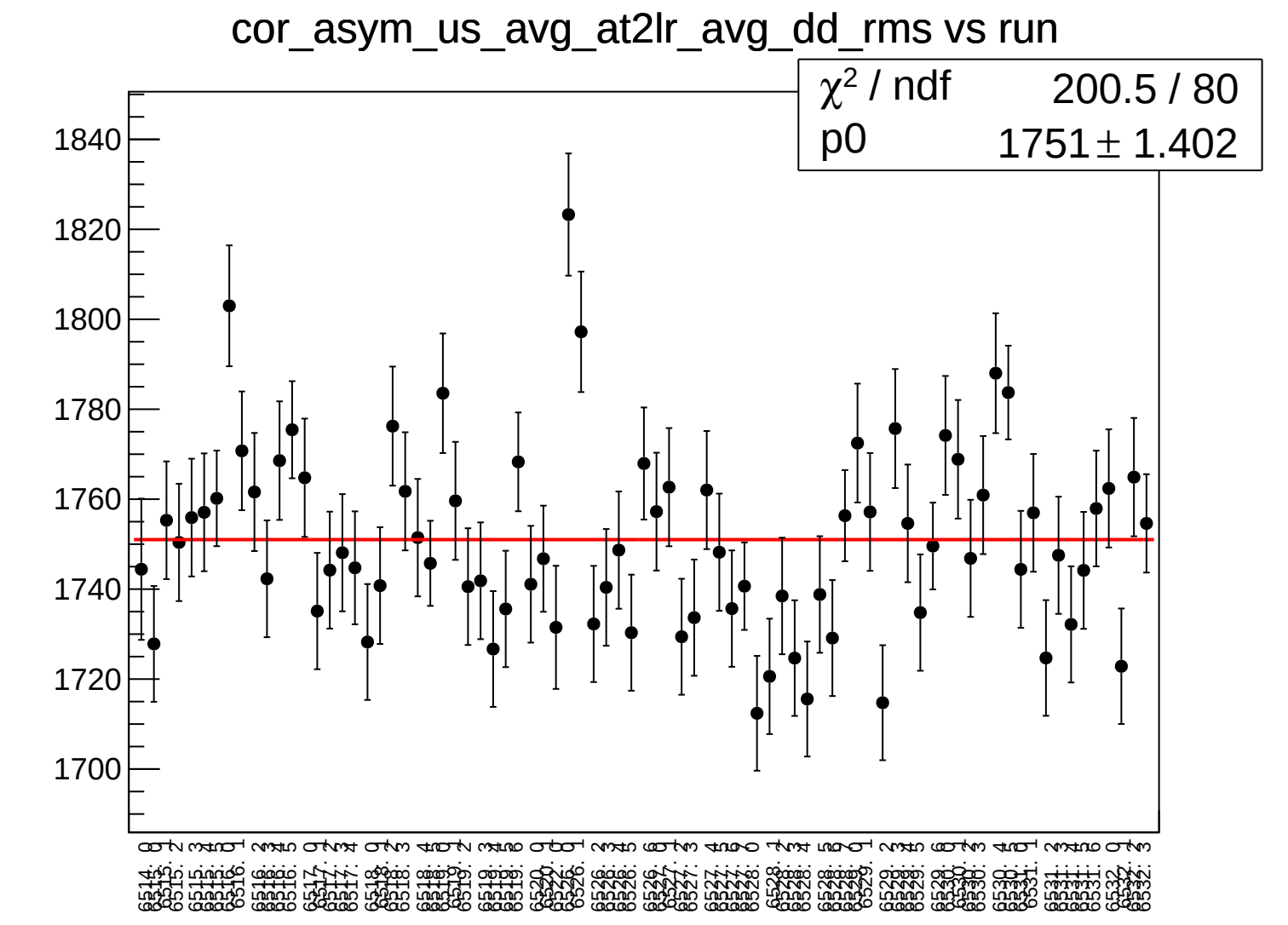

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 88.32 / 80
p0 −7403 ± 8793
pull
Entries 81
Mean −56.04
Std Dev 0

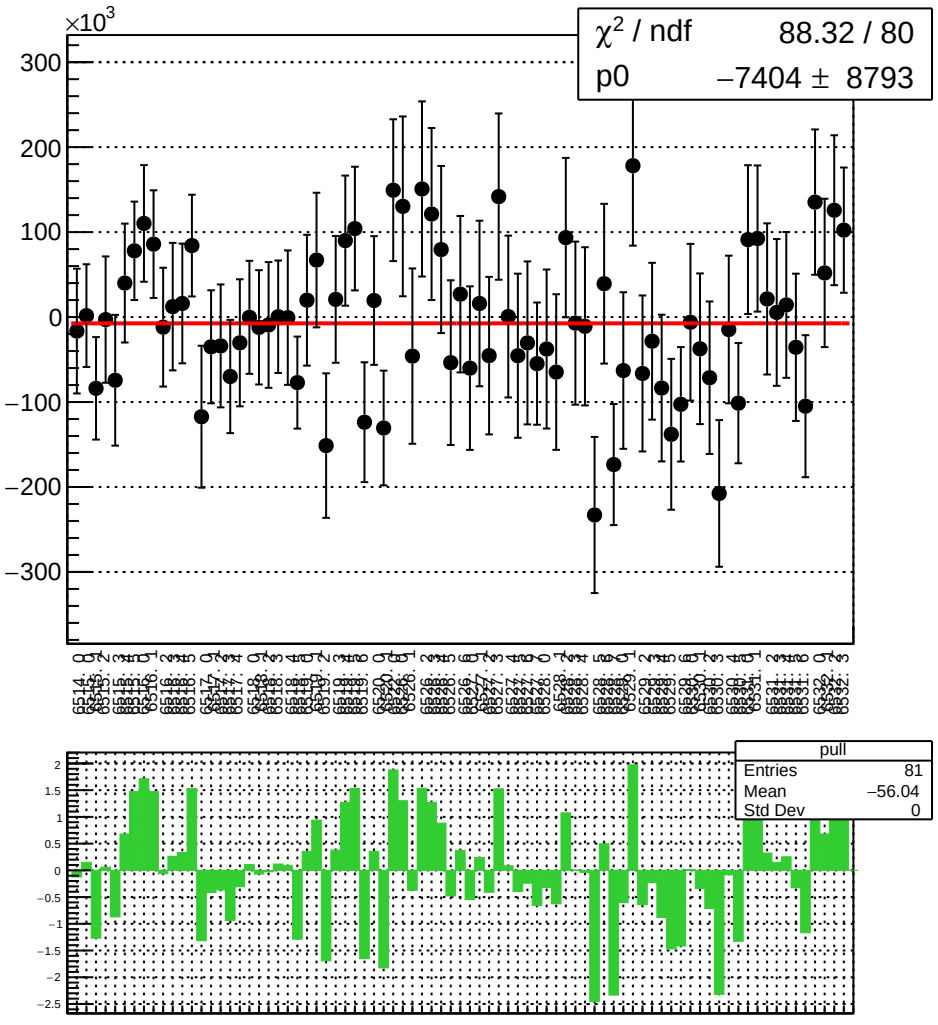

pull1D
Entries 81
Mean 0.01498
Std Dev 1.044

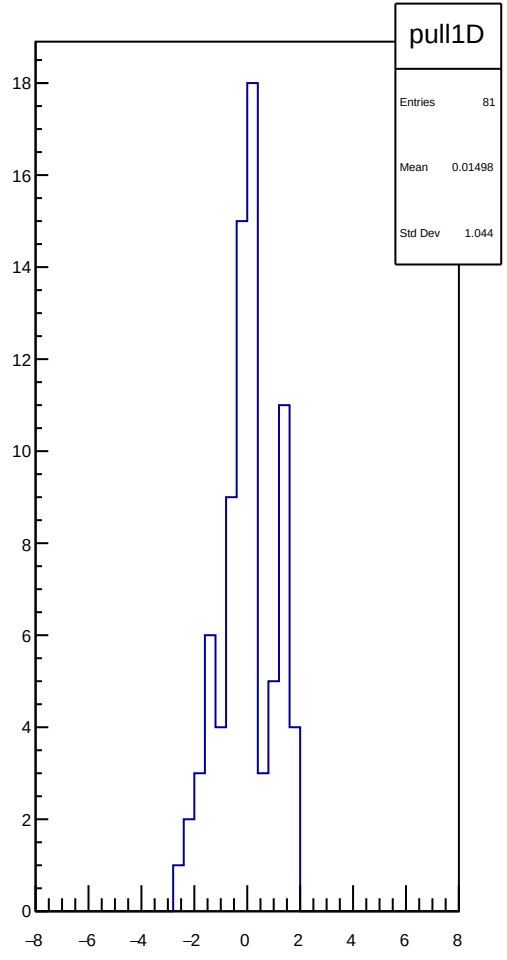

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 3.1e+04 / 80
p0 7690 ± 6.217
10000
9000
8000
7000
6000

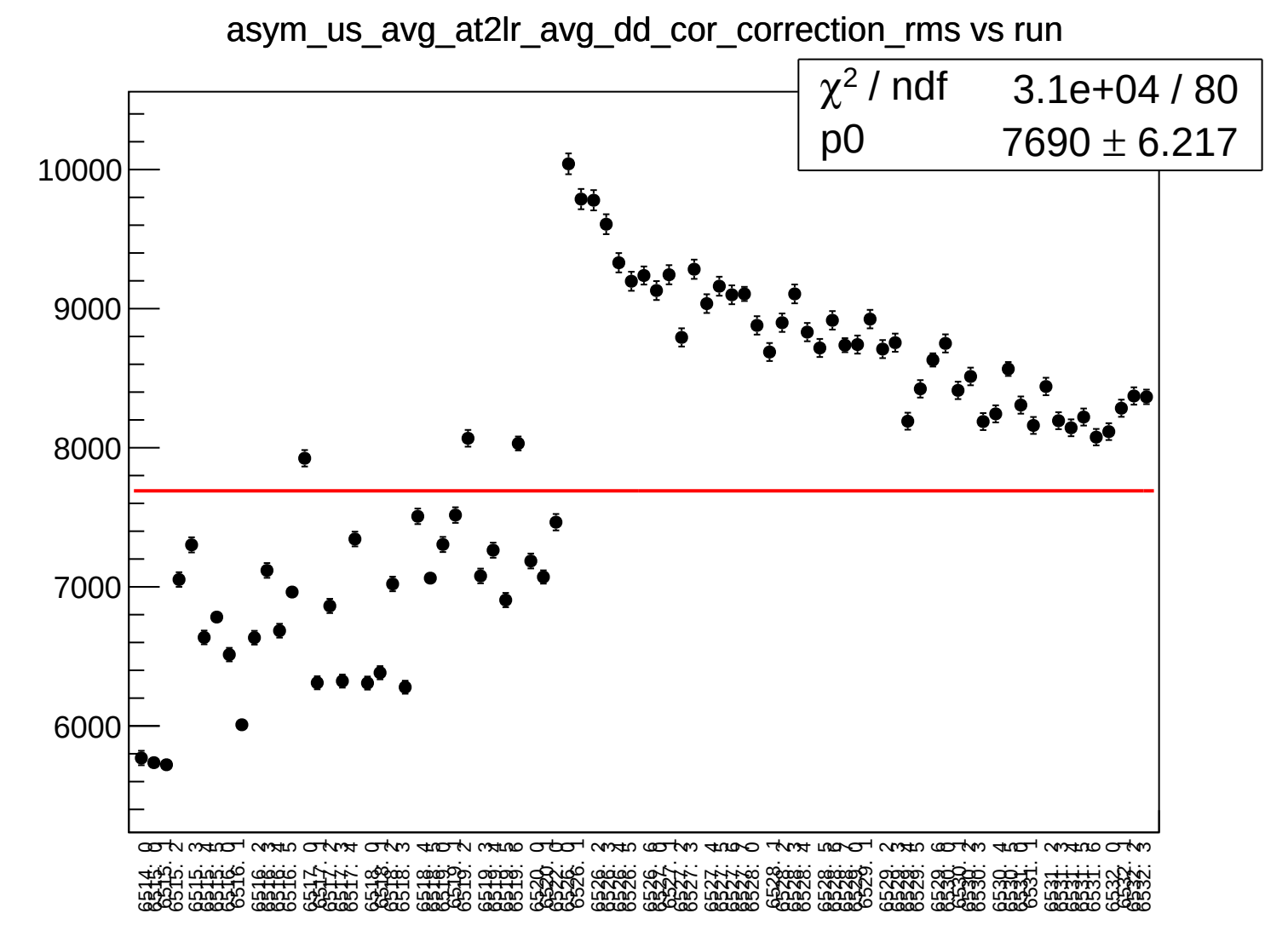

cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 70.8 / 80
p0 238.8 ± 1982
pull
Entries 81
Mean 84.45
Std Dev 69.79

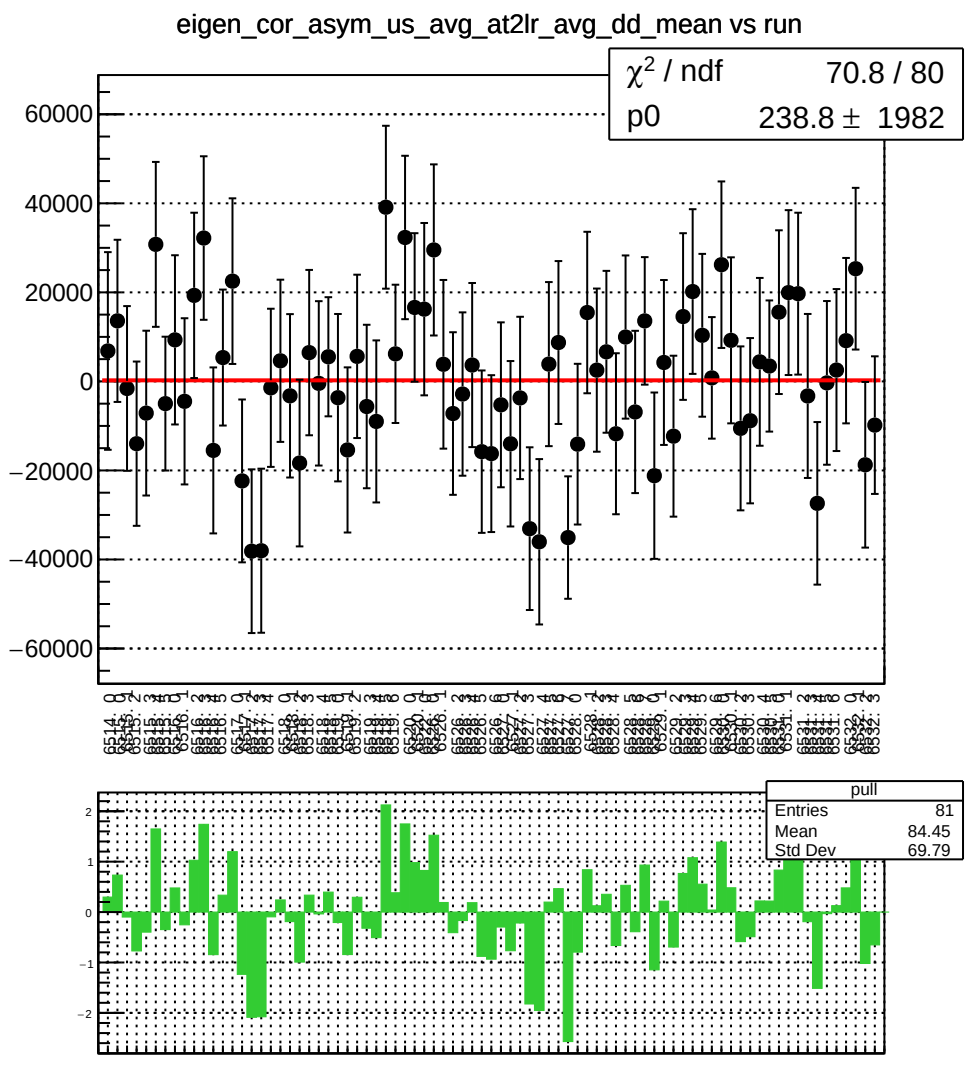

pull1D
Entries 81
Mean 0.00701
Std Dev 0.9349

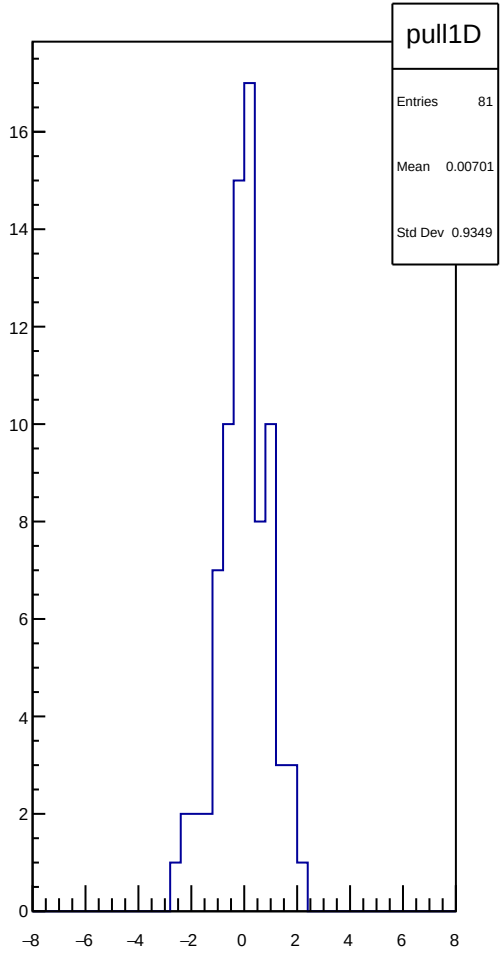

cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 200.5 / 80
p0 1751 ± 1.402
1840
1820
1800
1780
1760
1740
1720
1700

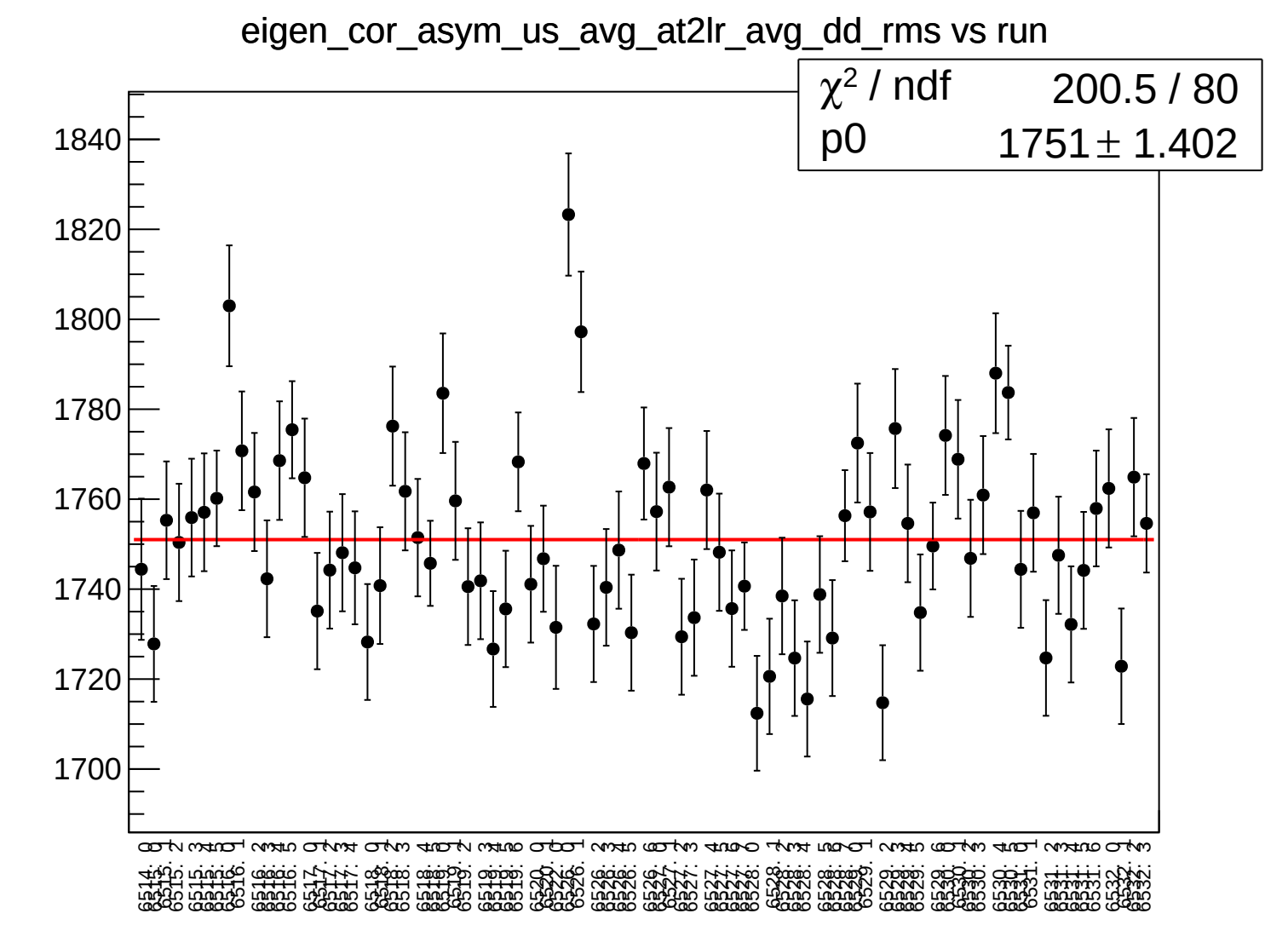

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 88.32 / 80
p0 −7404 ± 8793
pull
Entries 81
Mean −56.04
Std Dev 0

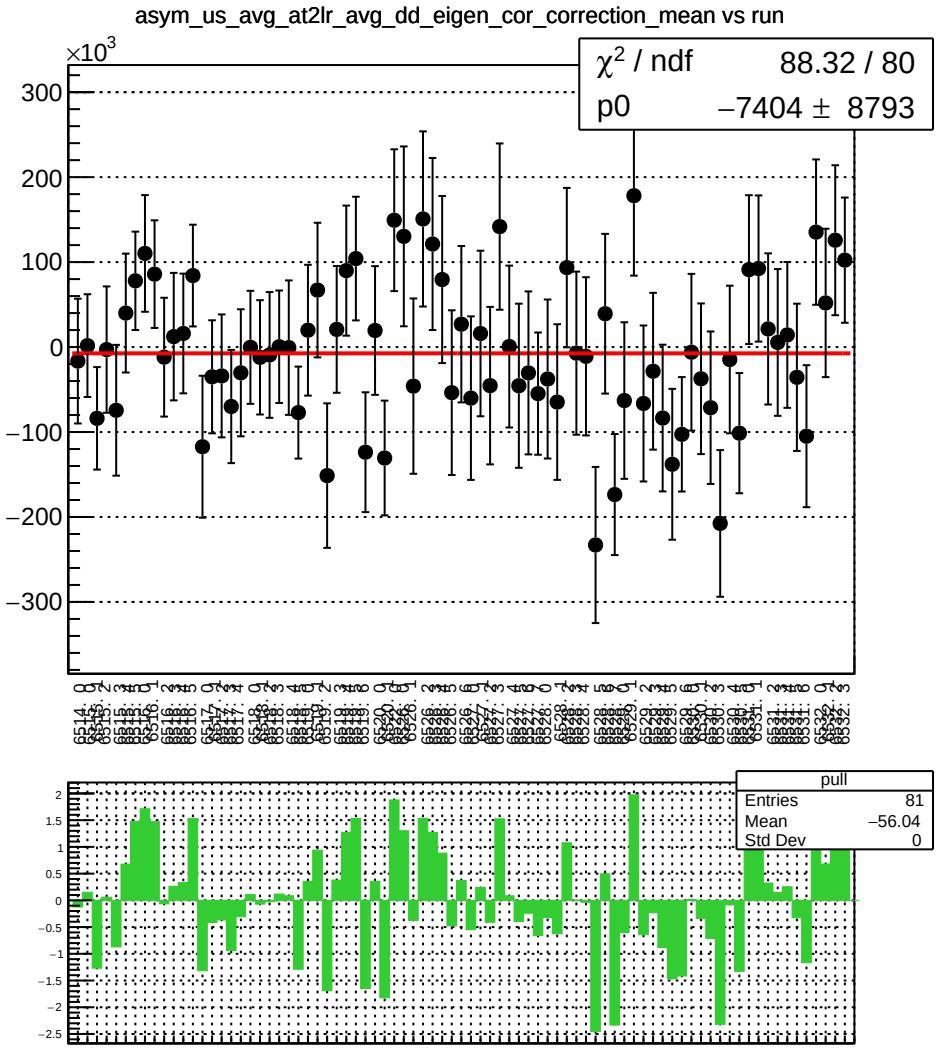

pull1D
Entries 81
Mean 0.01498
Std Dev 1.044

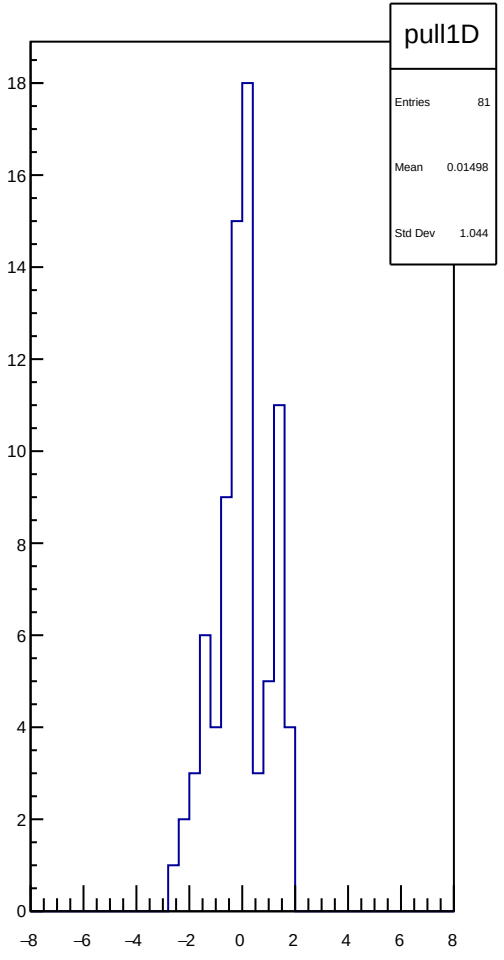

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ² / ndf 3.1e+04 / 80
p0 7690 ± 6.217
10000
9000
8000
7000
6000

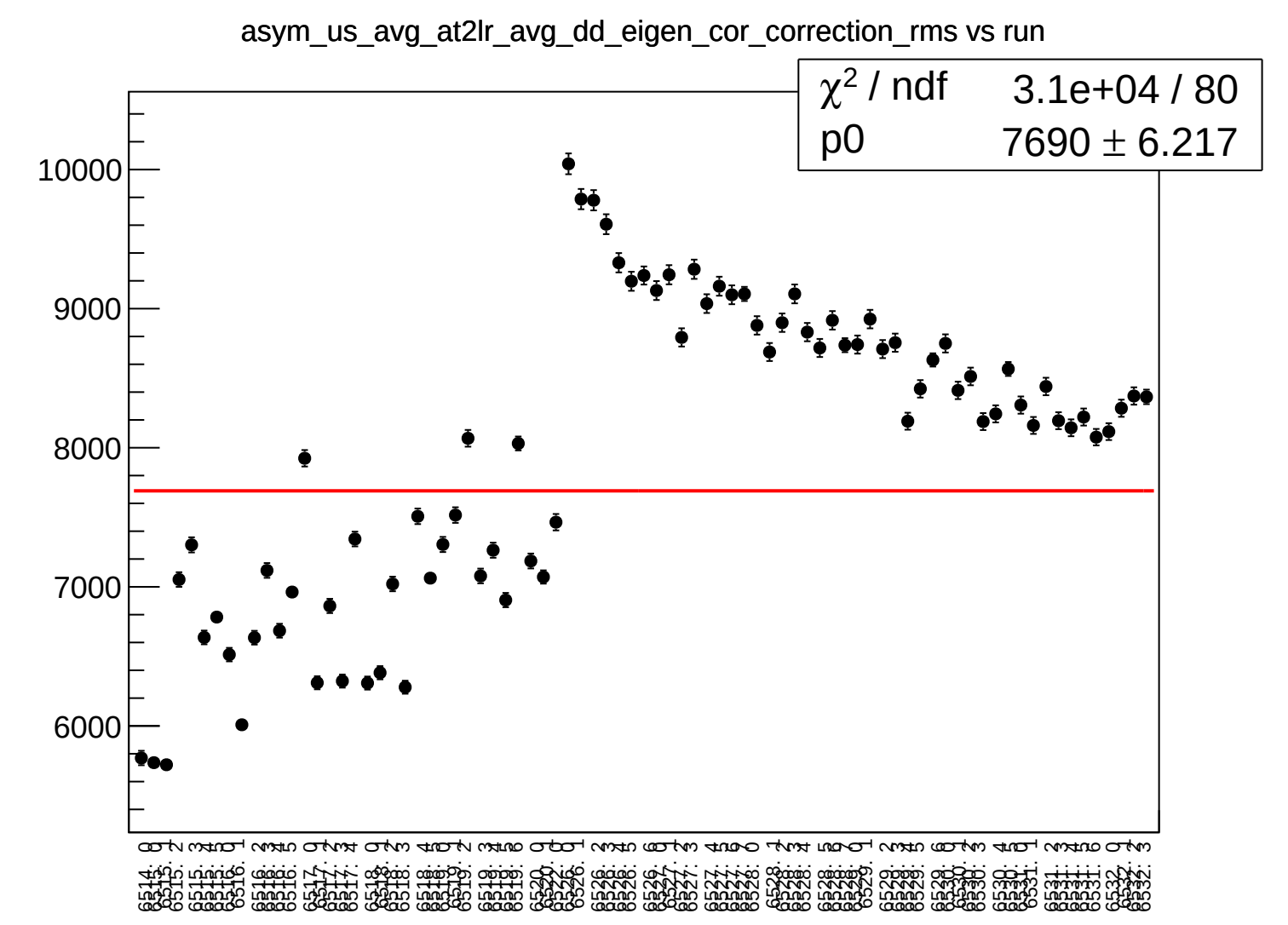

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 70.8 / 80
p0 238.8 ± 1982
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean 84.45
Std Dev 69.79
2
1
0
−1
−2

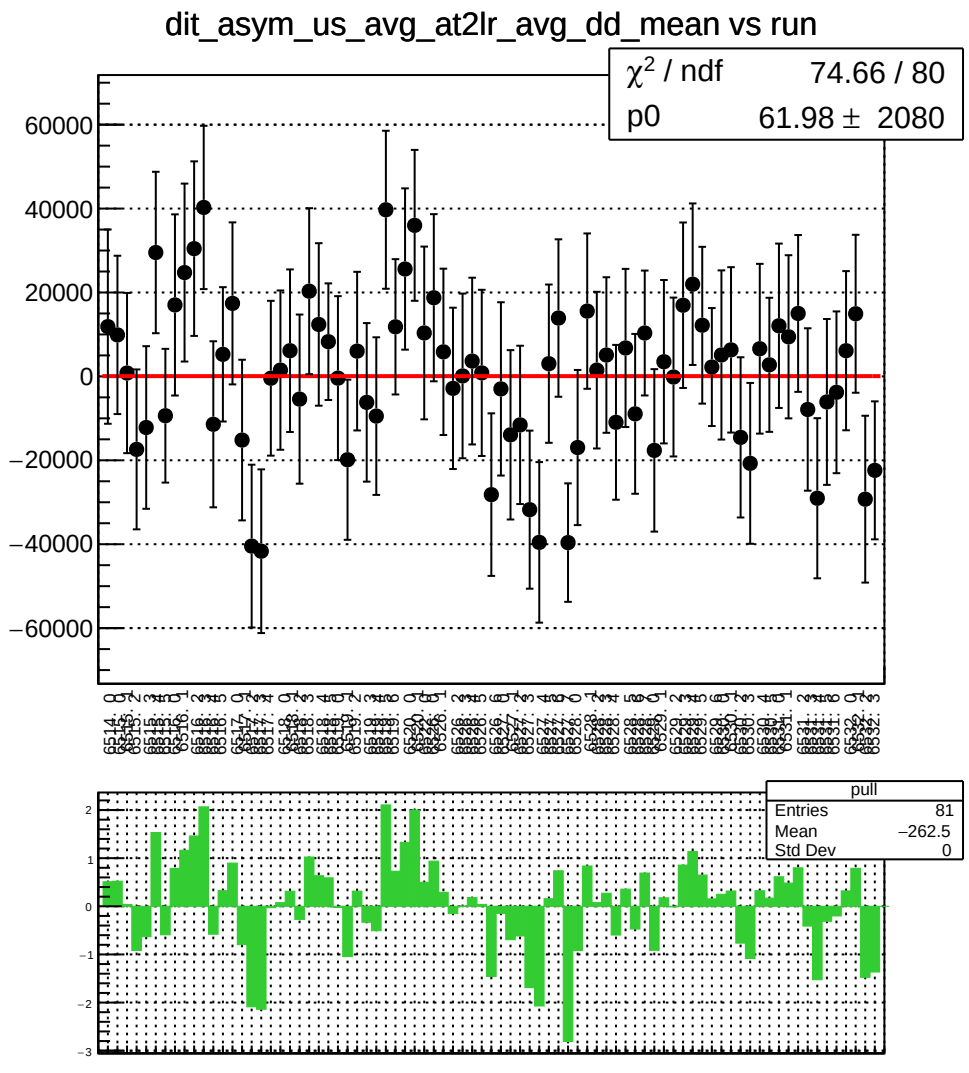

pull1D
Entries 81
Mean 0.00701
Std Dev 0.9349
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

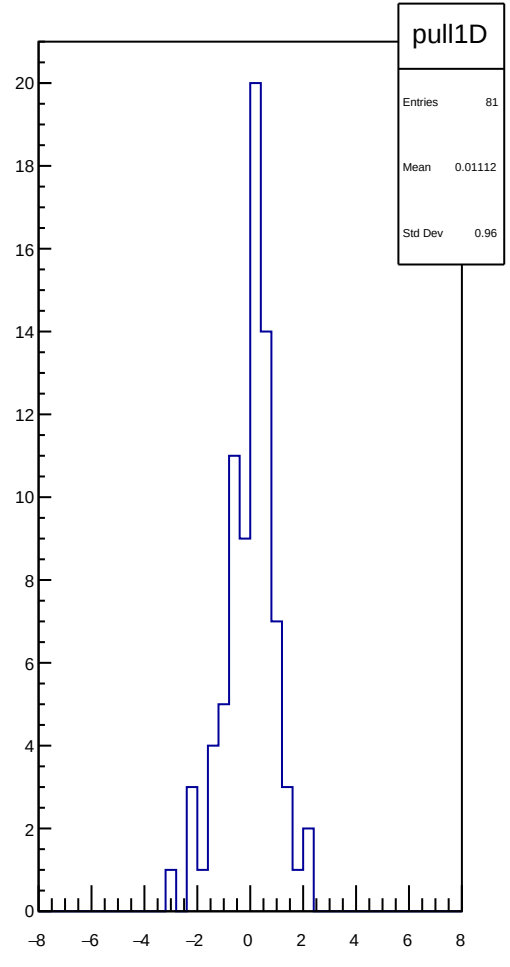

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 200.5 / 80
p0 1751 ± 1.402
1840
1820
1800
1780
1760
1740
1720
1700

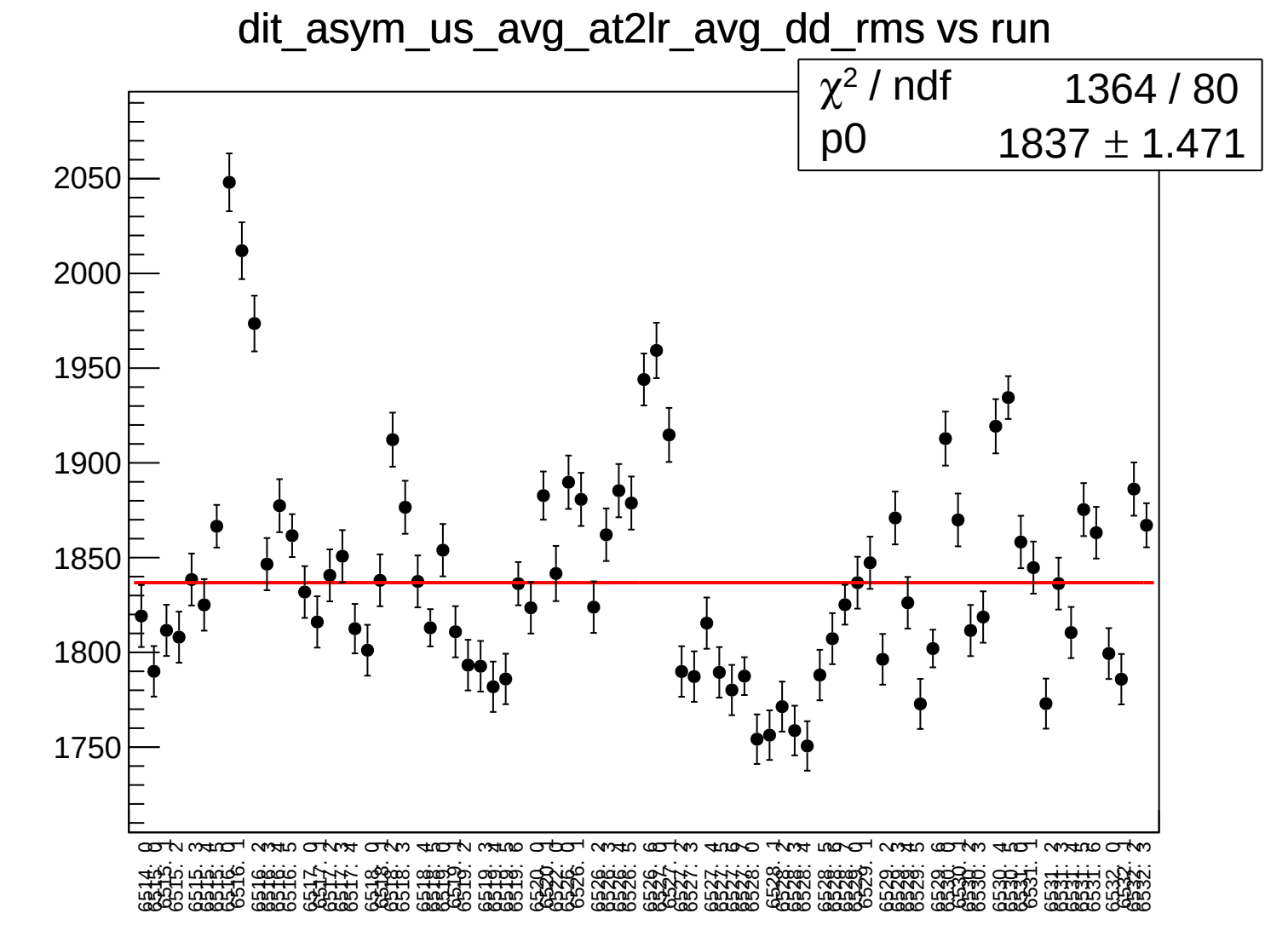

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 88.32 / 80
p0 −7404 ± 8793
pull
Entries 81
Mean −56.04
Std Dev 0

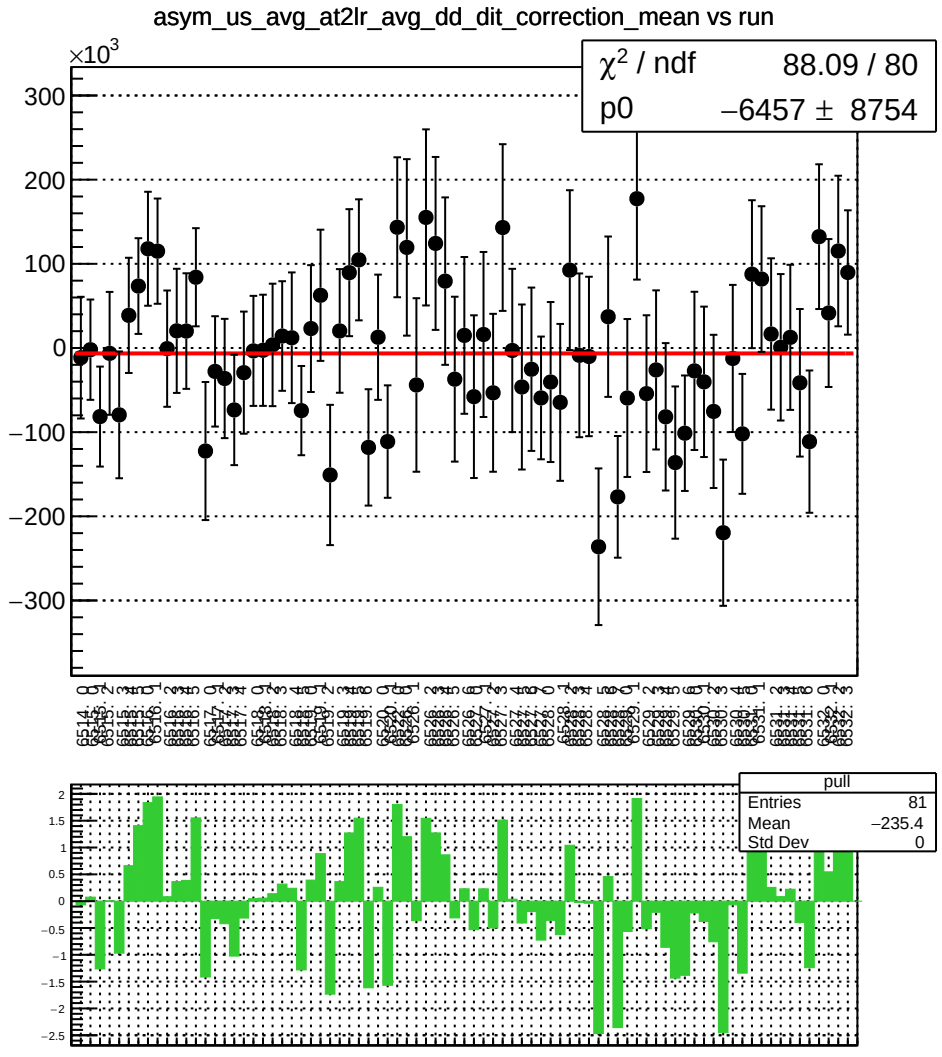

pull1D
Entries 81
Mean 0.01498
Std Dev 1.044

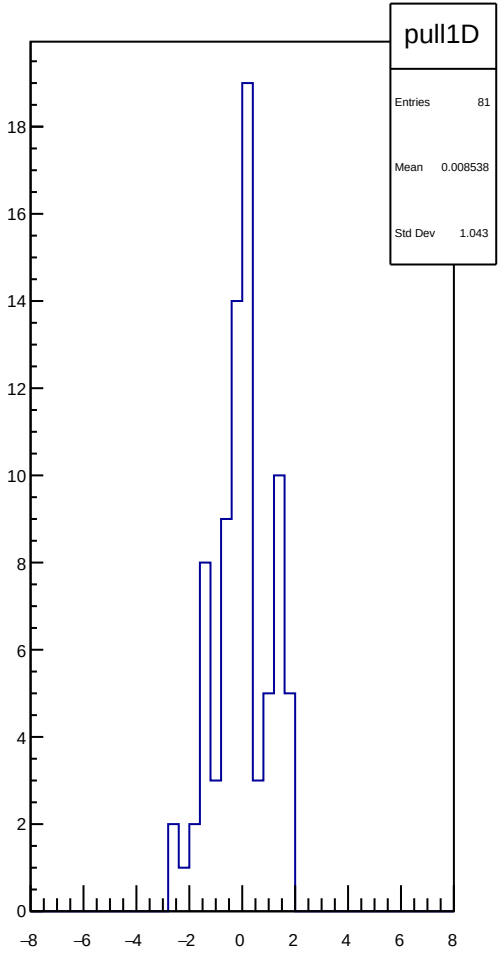

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.1e+04 / 80
p0 7690 ± 6.217
10000
9000
8000
7000
6000

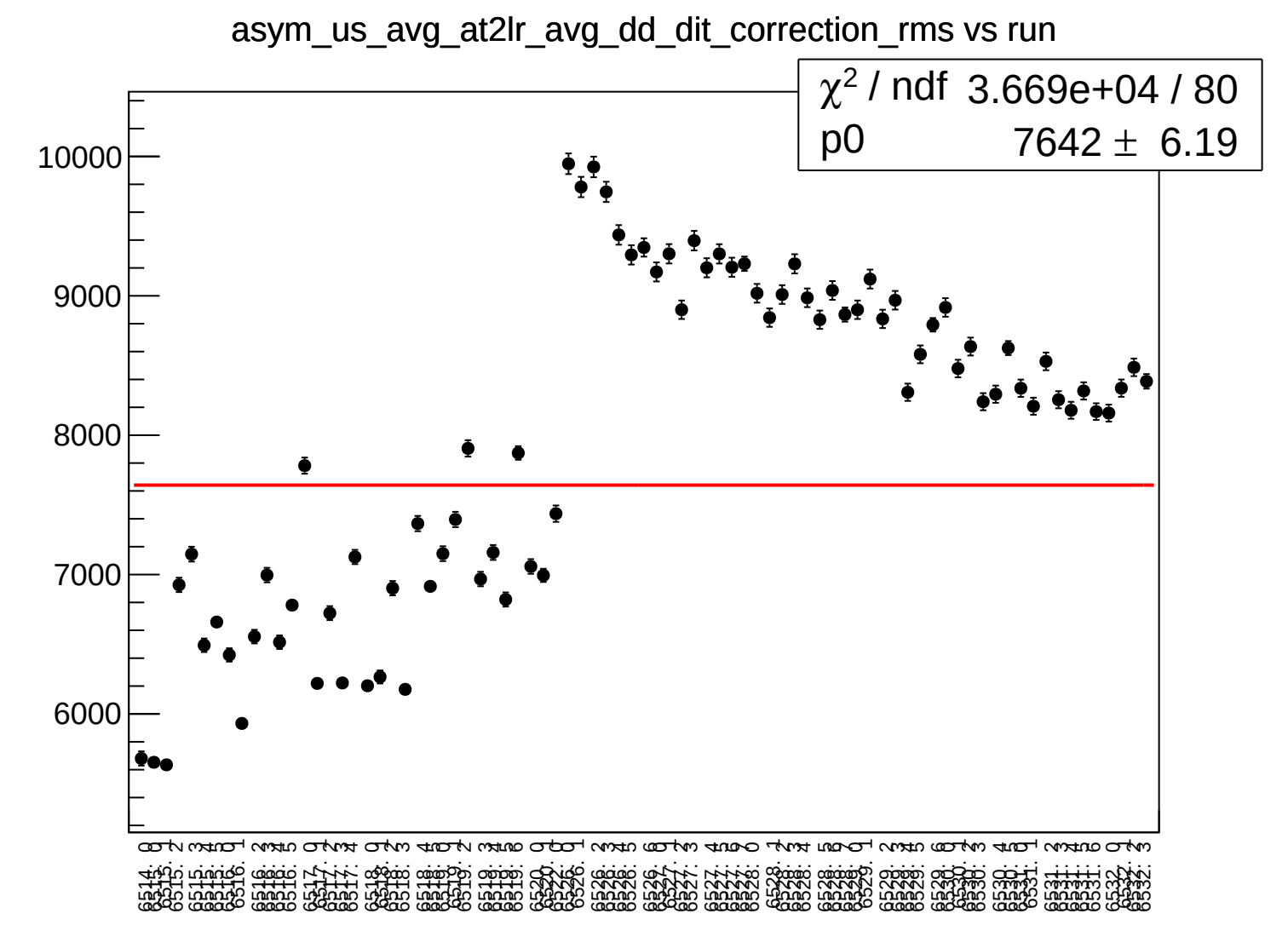

dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ^2 / ndf 74.66 / 80
p0 61.98 ± 2080
pull
Entries 81
Mean −262.5
Std Dev 0

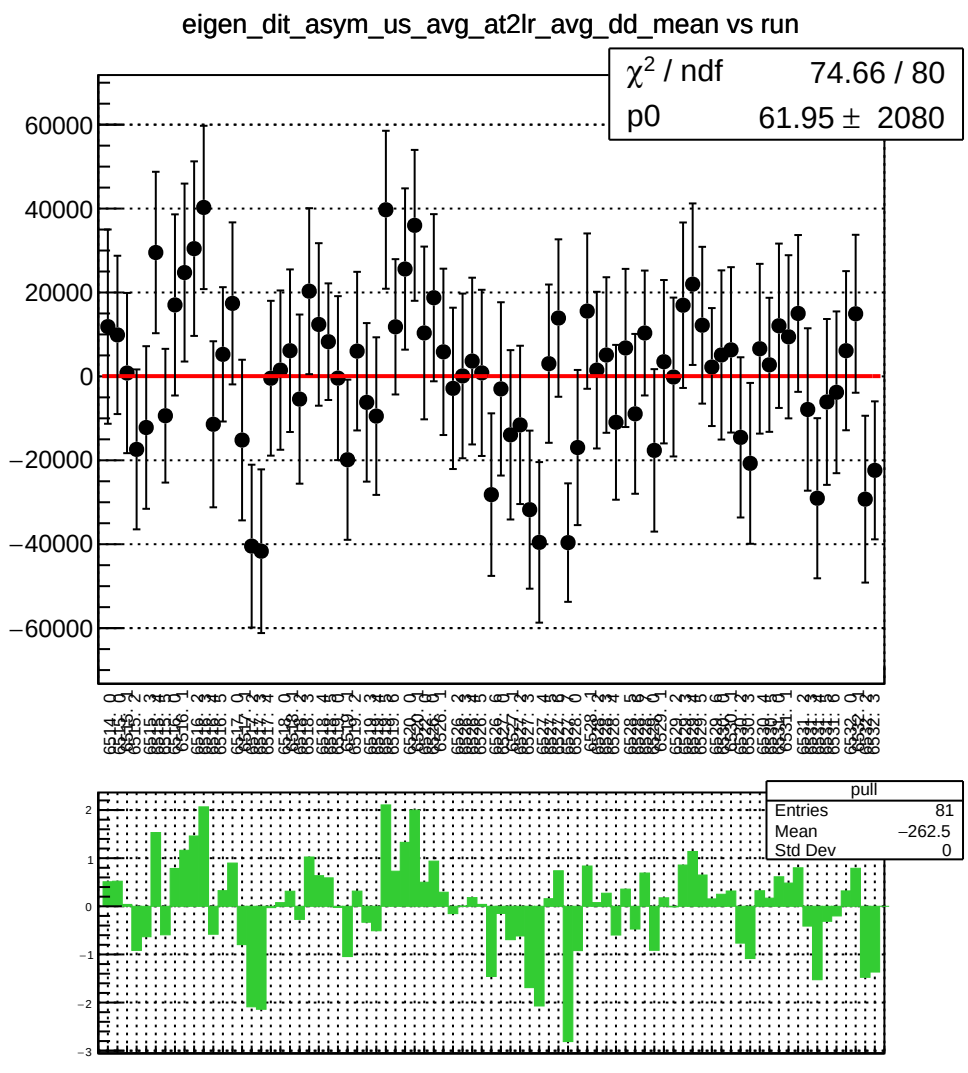

pull1D
Entries 81
Mean 0.01112
Std Dev 0.96

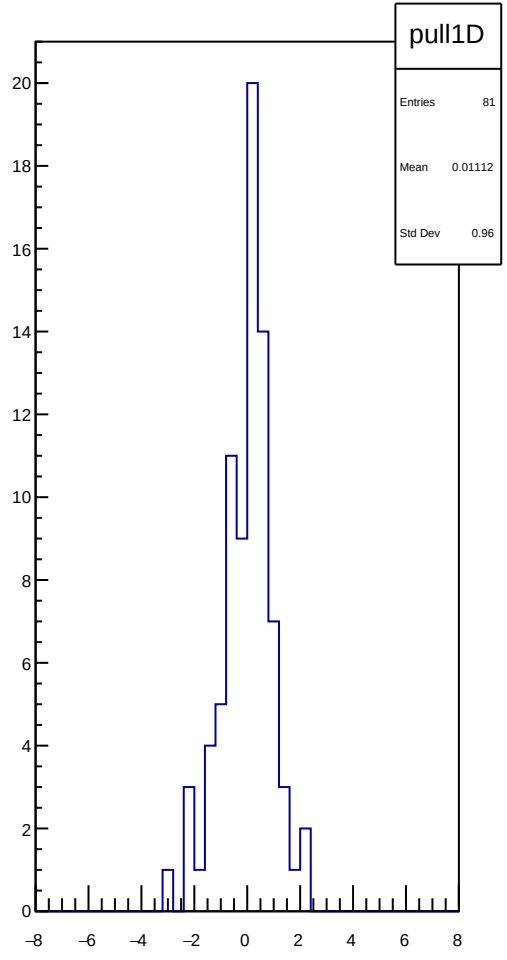

dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 1364 / 80
p0 1837 ± 1.471
2050
2000
1950
1900
1850
1800
1750

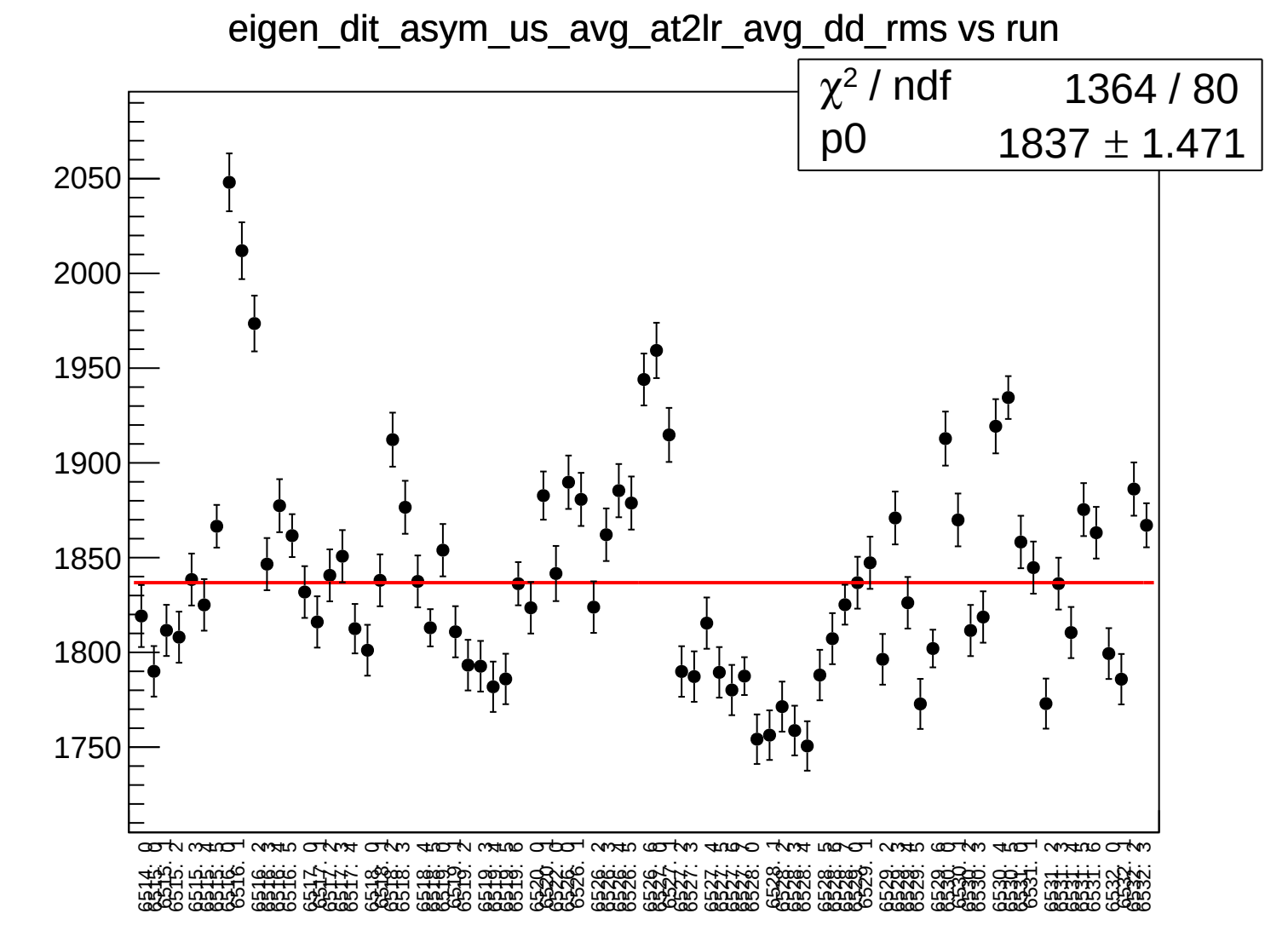

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 88.09 / 80
p0 −6457 ± 8754
pull
Entries 81
Mean −235.4
Std Dev 0

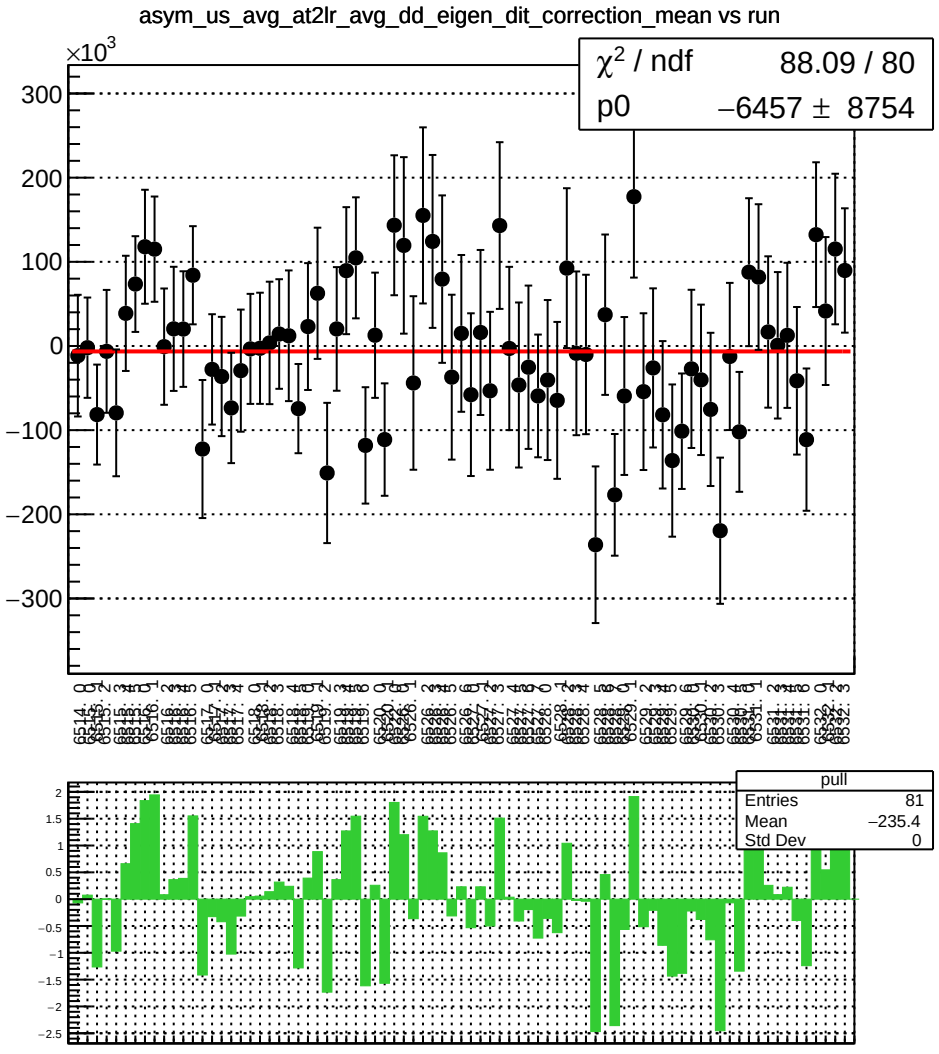

pull1D
Entries 81
Mean 0.008538
Std Dev 1.043

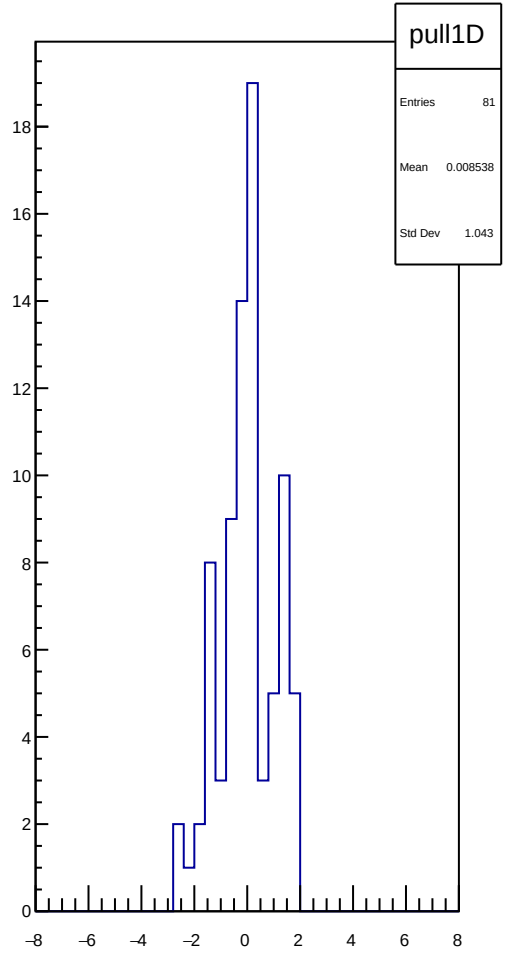

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 3.669e+04 / 80
p0 7642 ± 6.19
10000
9000
8000
7000
6000

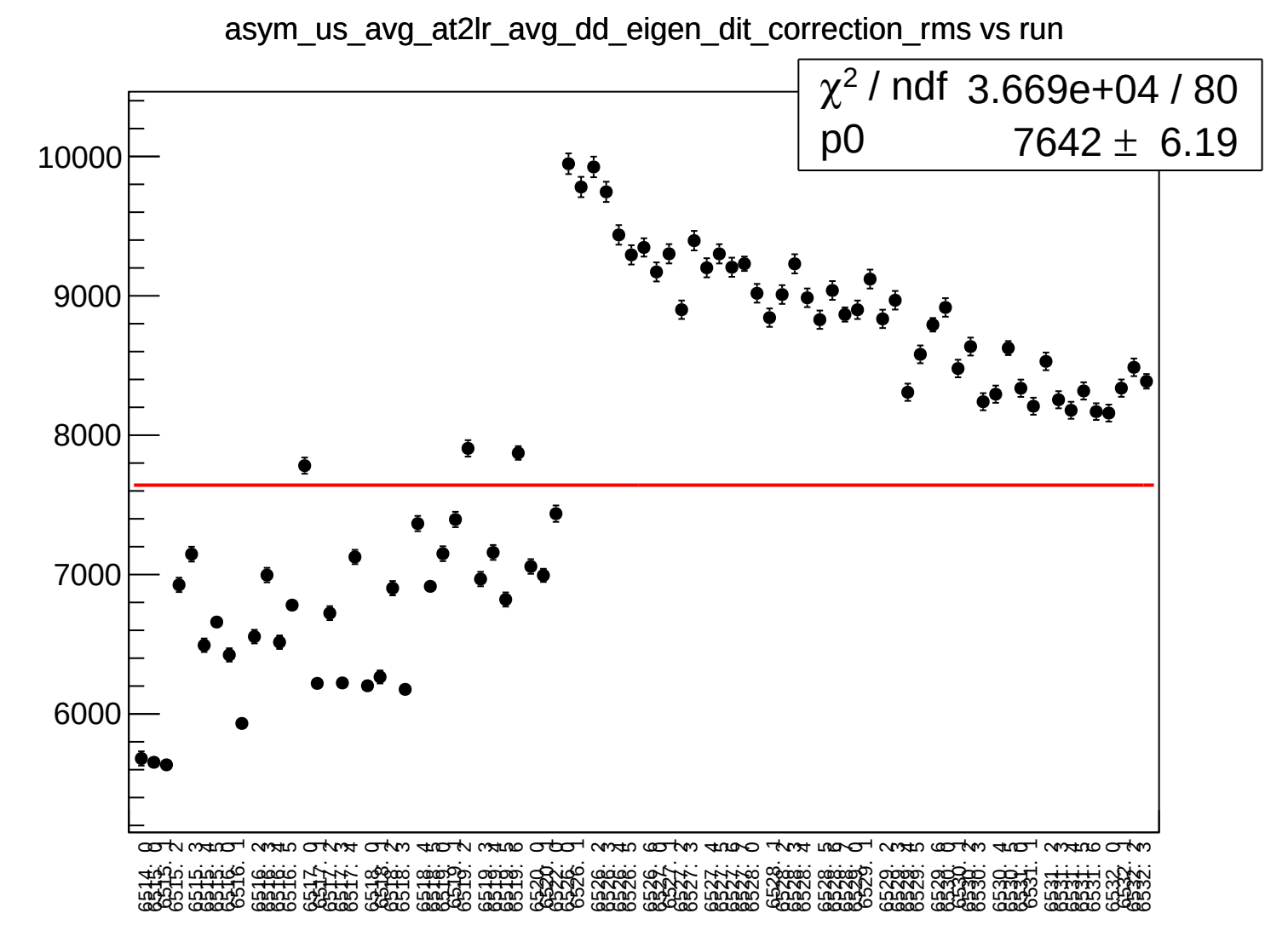

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 74.66 / 80
p0 61.95 ± 2080
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −262.5
Std Dev 0
2
1
0
−1
−2
−3

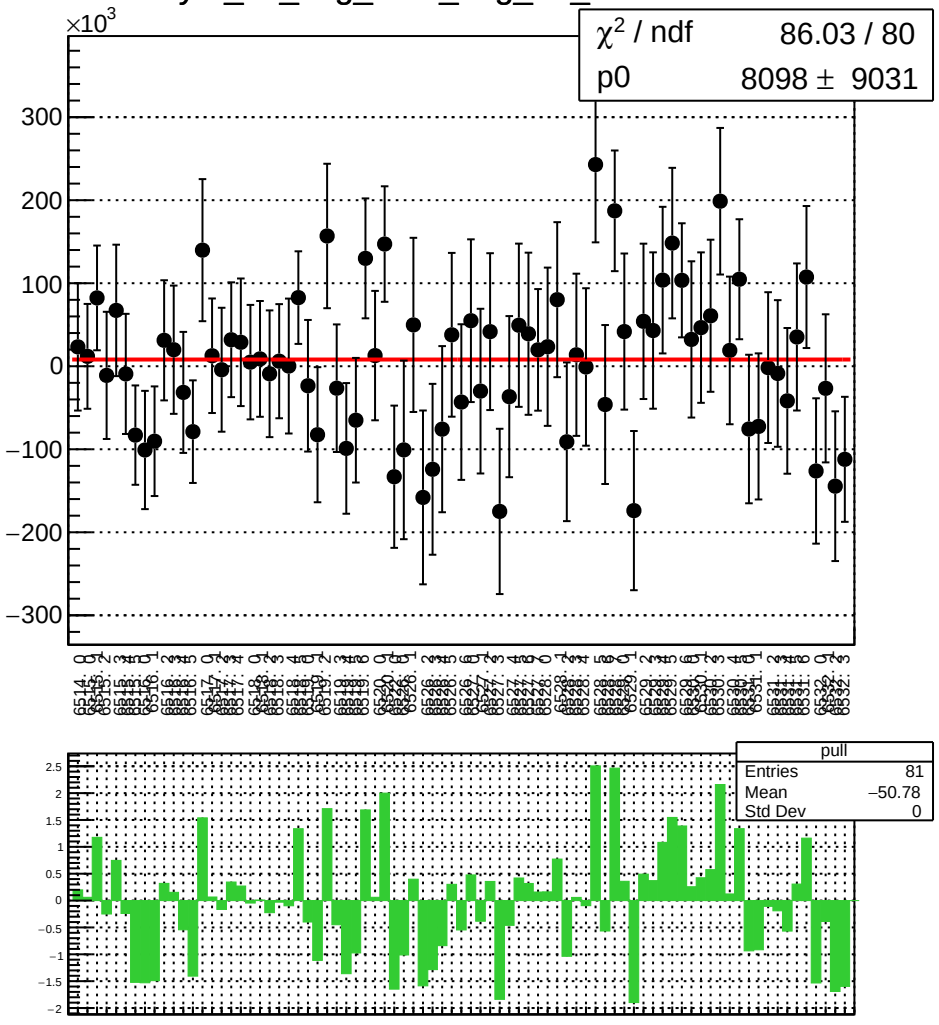

pull1D
Entries 81
Mean 0.01112
Std Dev 0.96
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

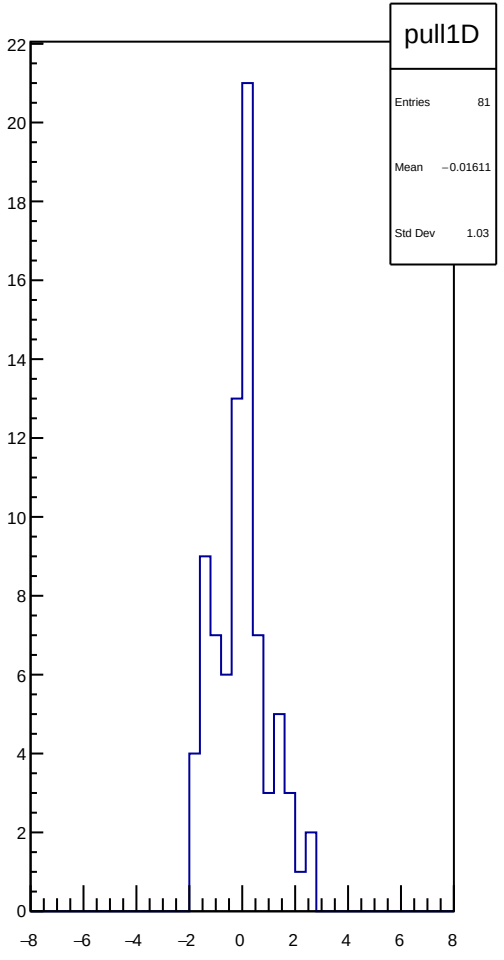

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 1364 / 80
p0 1837 ± 1.471
2050
2000
1950
1900
1850
1800
1750

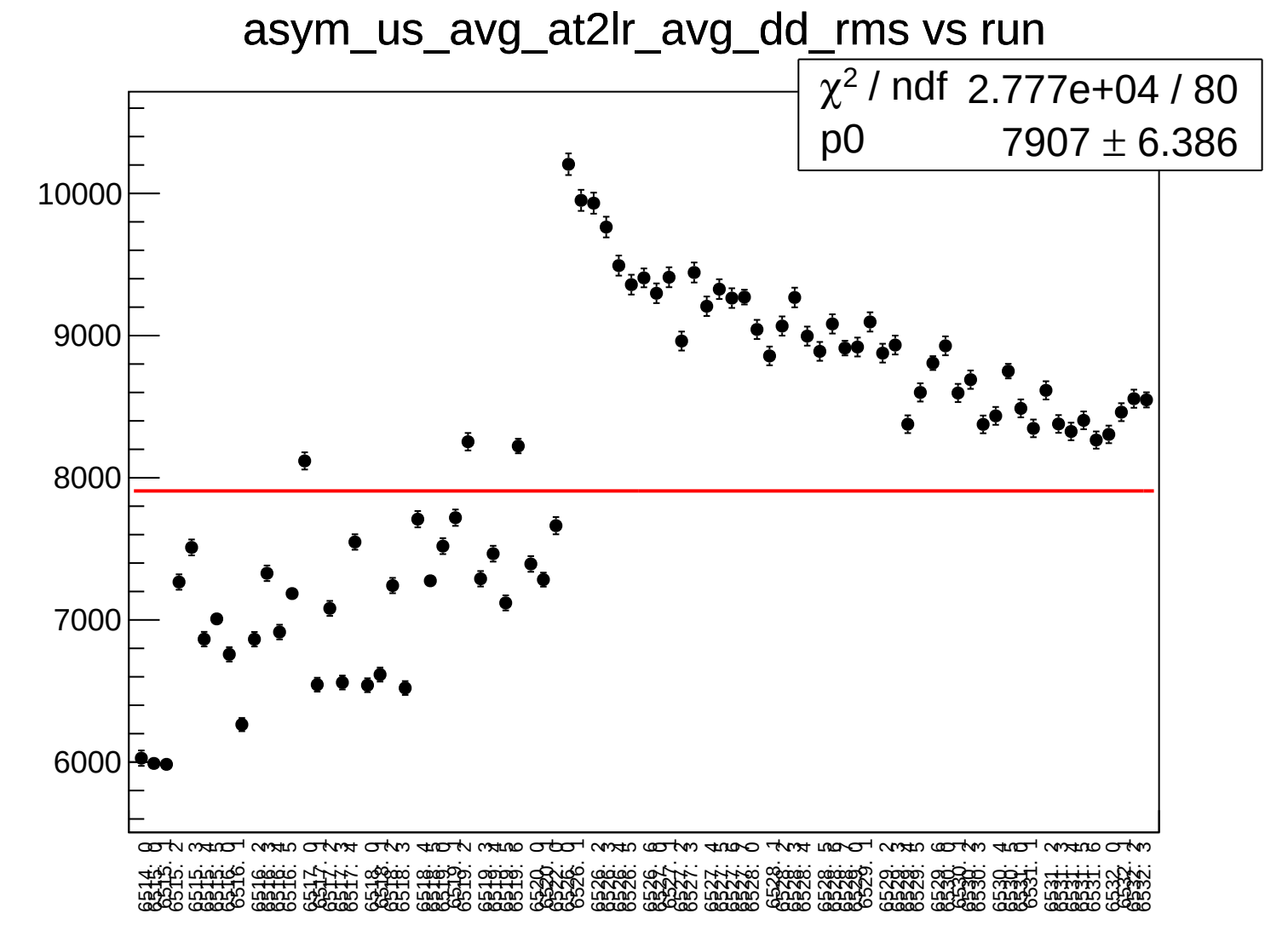

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 88.09 / 80
p0 −6457 ± 8754
pull
Entries 81
Mean −235.4
Std Dev 0

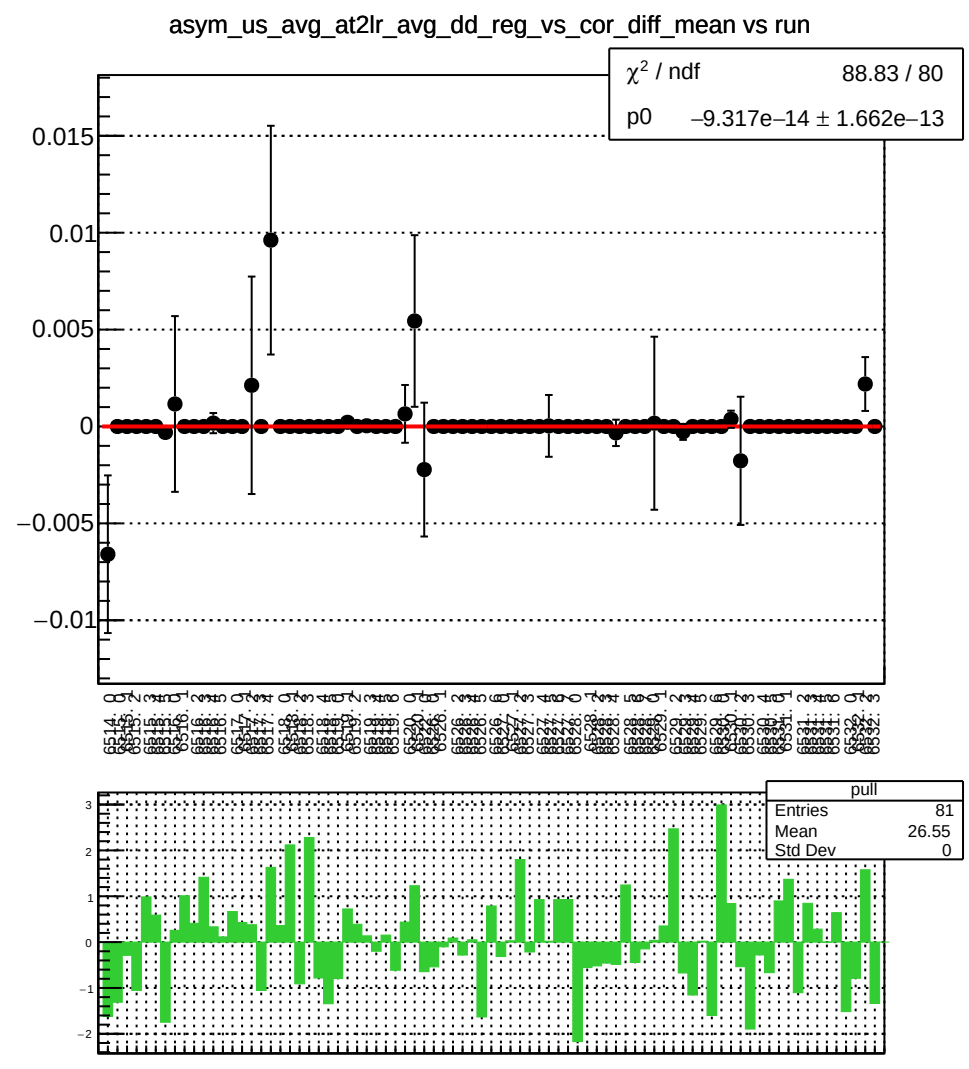

pull1D
Entries 81
Mean 0.008538
Std Dev 1.043

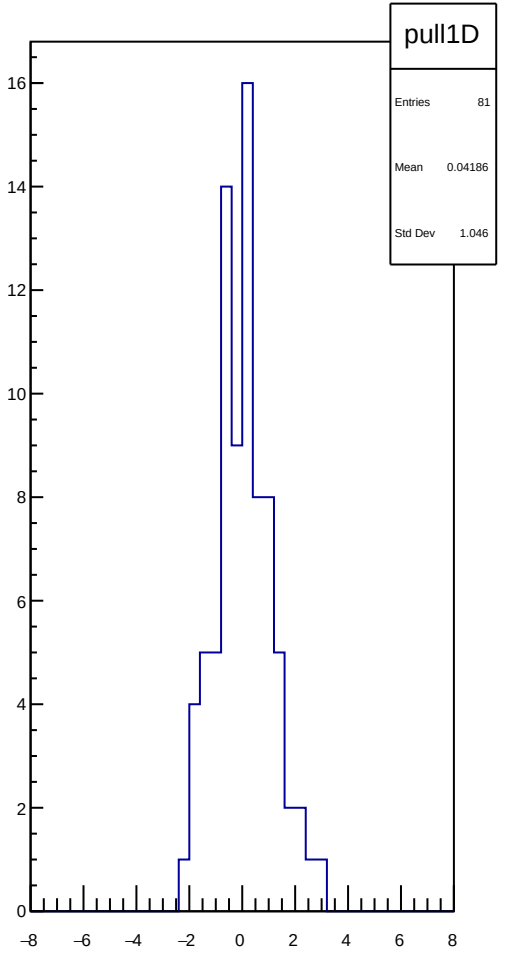

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.669e+04 / 80
p0 7642 ± 6.19
10000
9000
8000
7000
6000

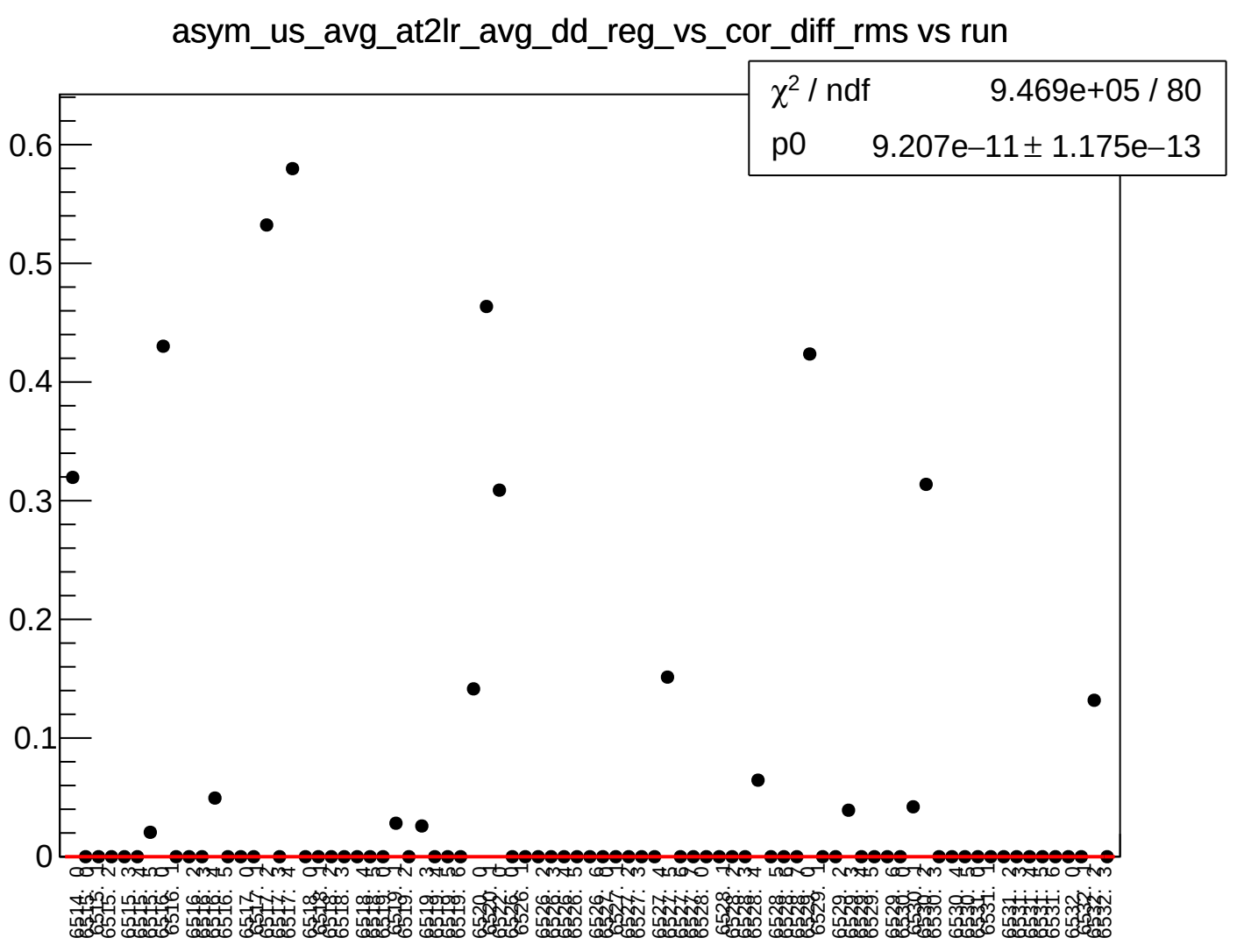

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ^2 / ndf 86.03 / 80
p0 8098 ± 9031
pull
Entries 81
Mean −50.78
Std Dev 0

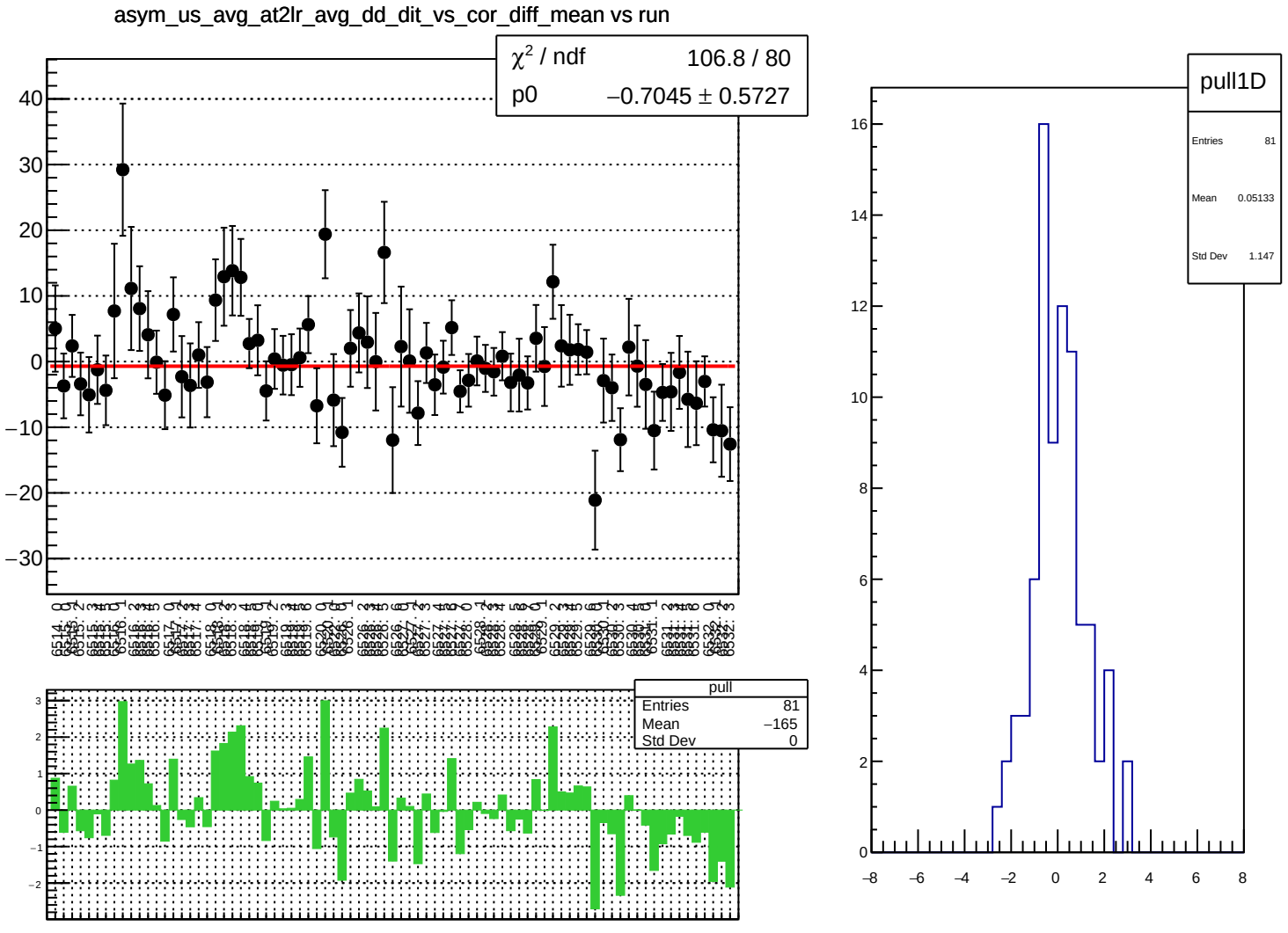

pull1D
Entries 81
Mean −0.01611
Std Dev 1.03

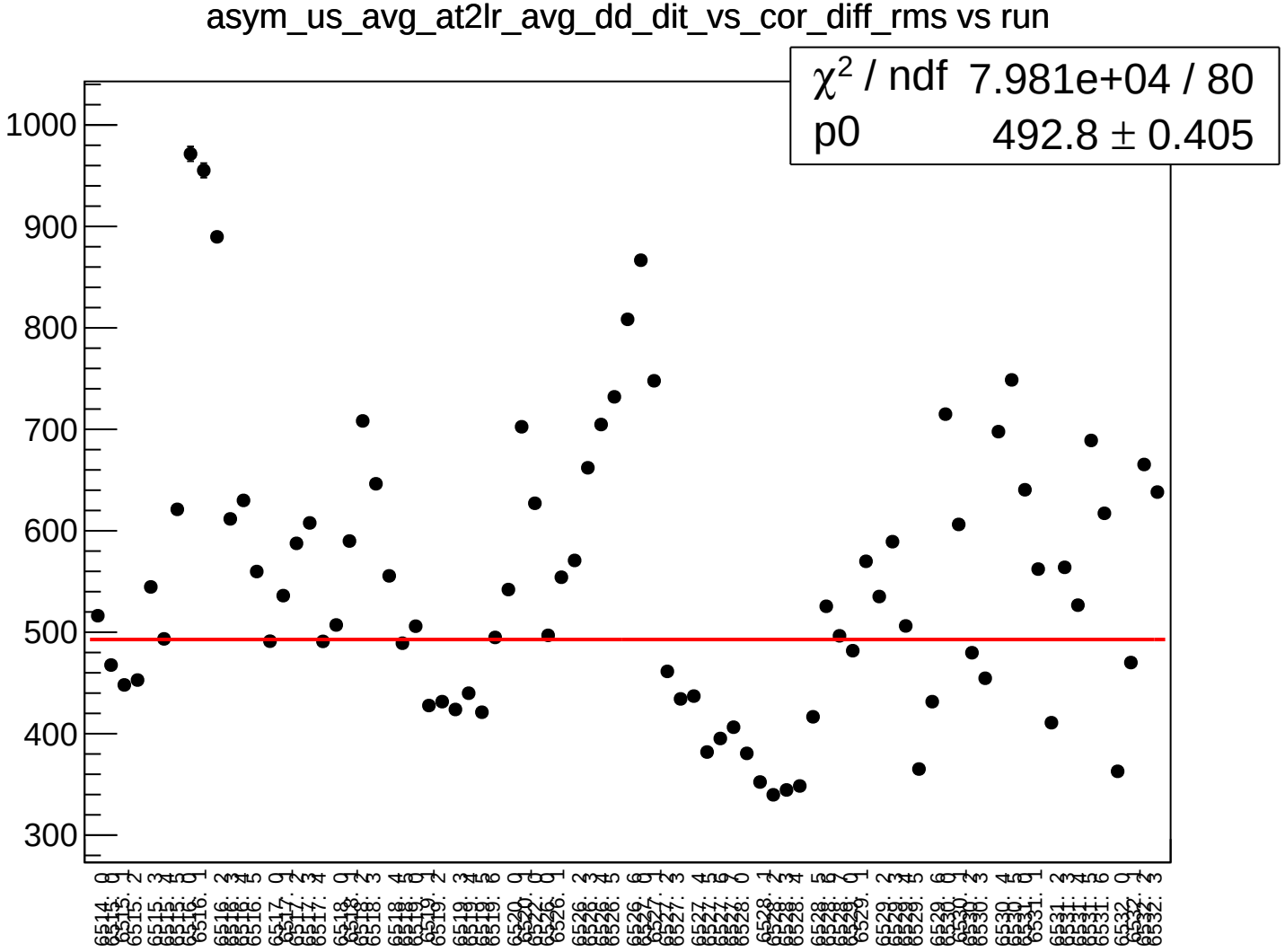

asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 2.777e+04 / 80
p0 7907 ± 6.386
10000
9000
8000
7000
6000

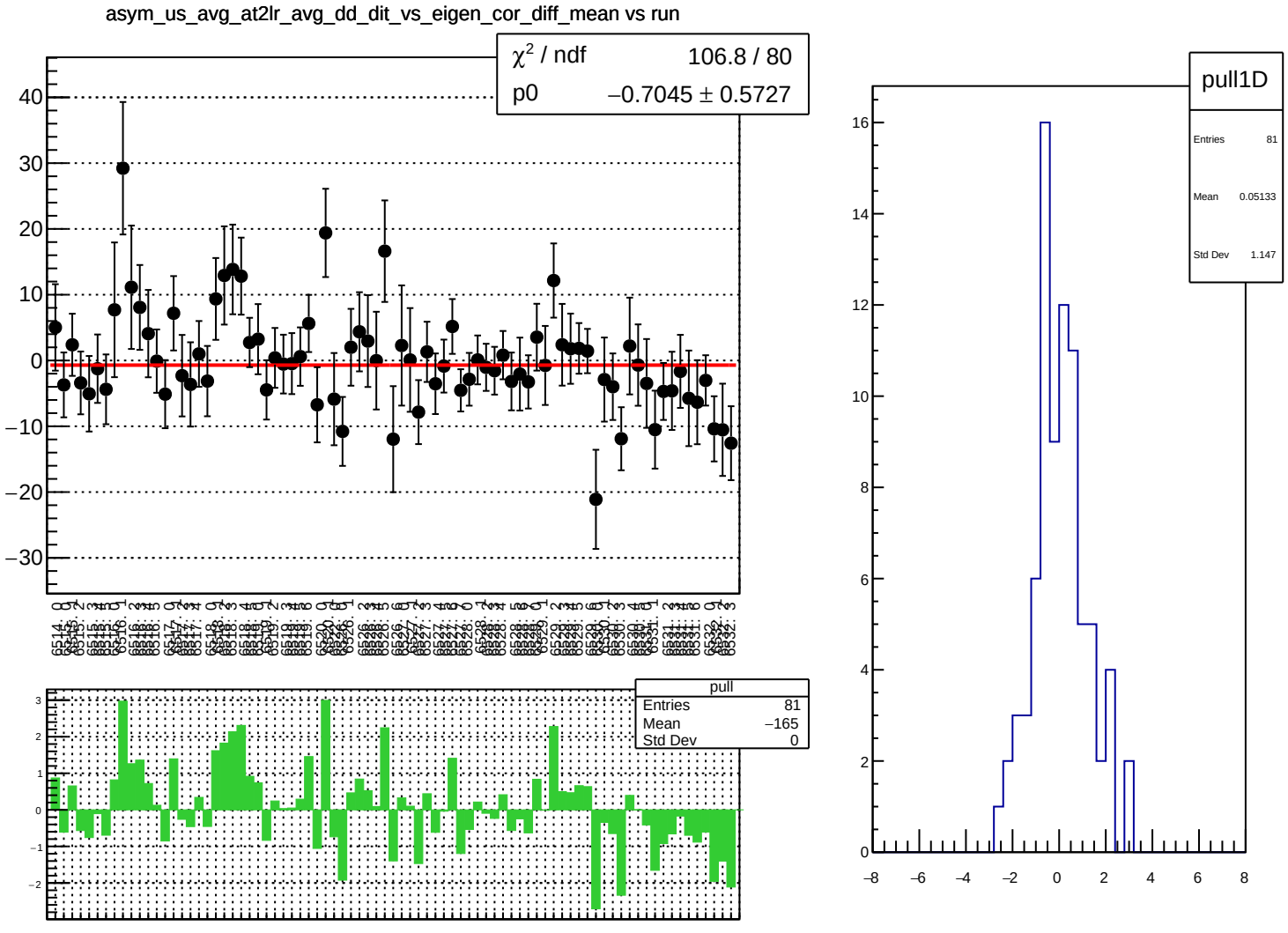

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 88.83 / 80
p0 −9.317e−14 ± 1.662e−13
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 81
Mean 26.55
Std Dev 0
3
2
1
0
−1
−2

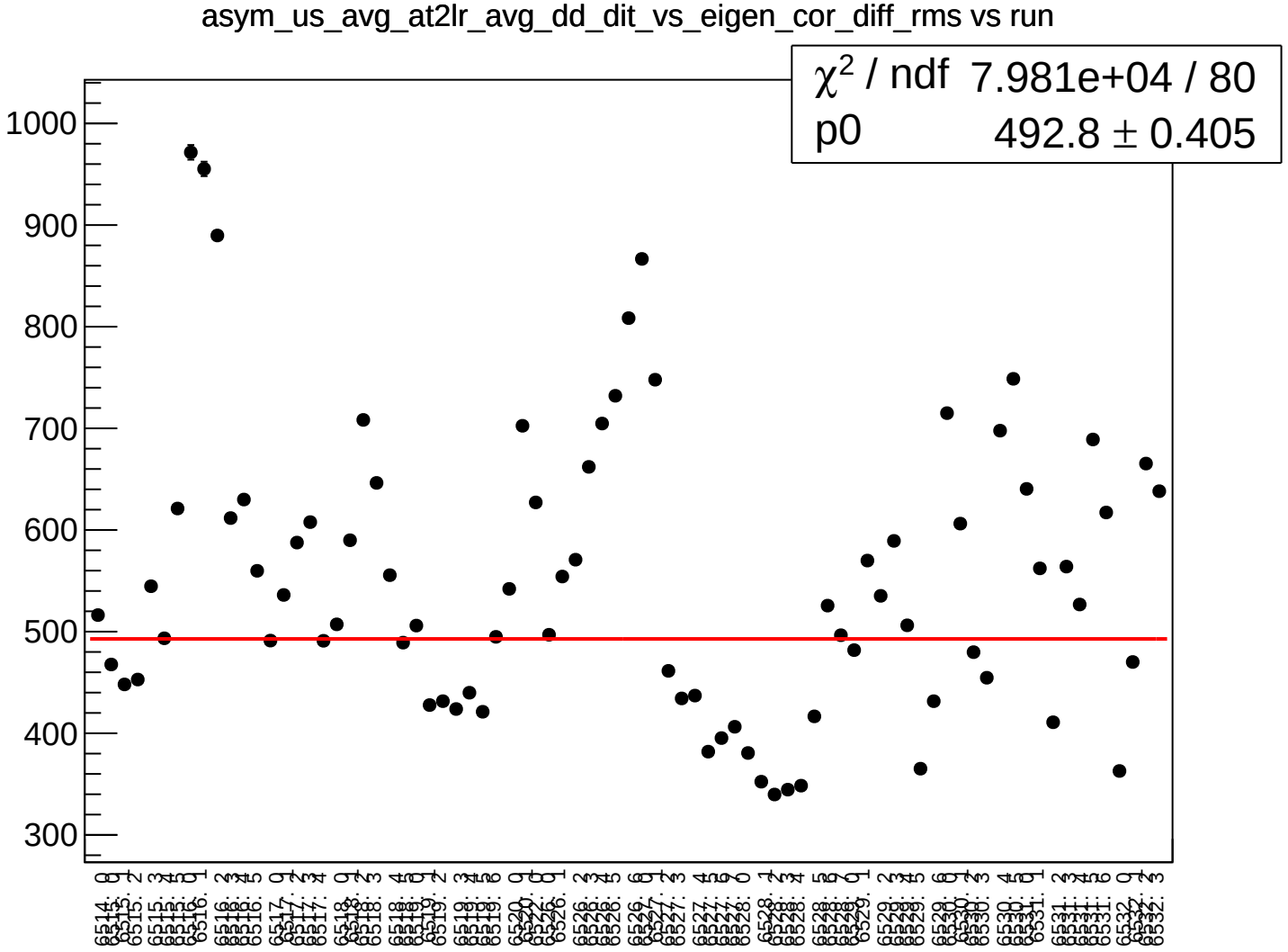

pull1D
Entries 81
Mean 0.04186
Std Dev 1.046
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

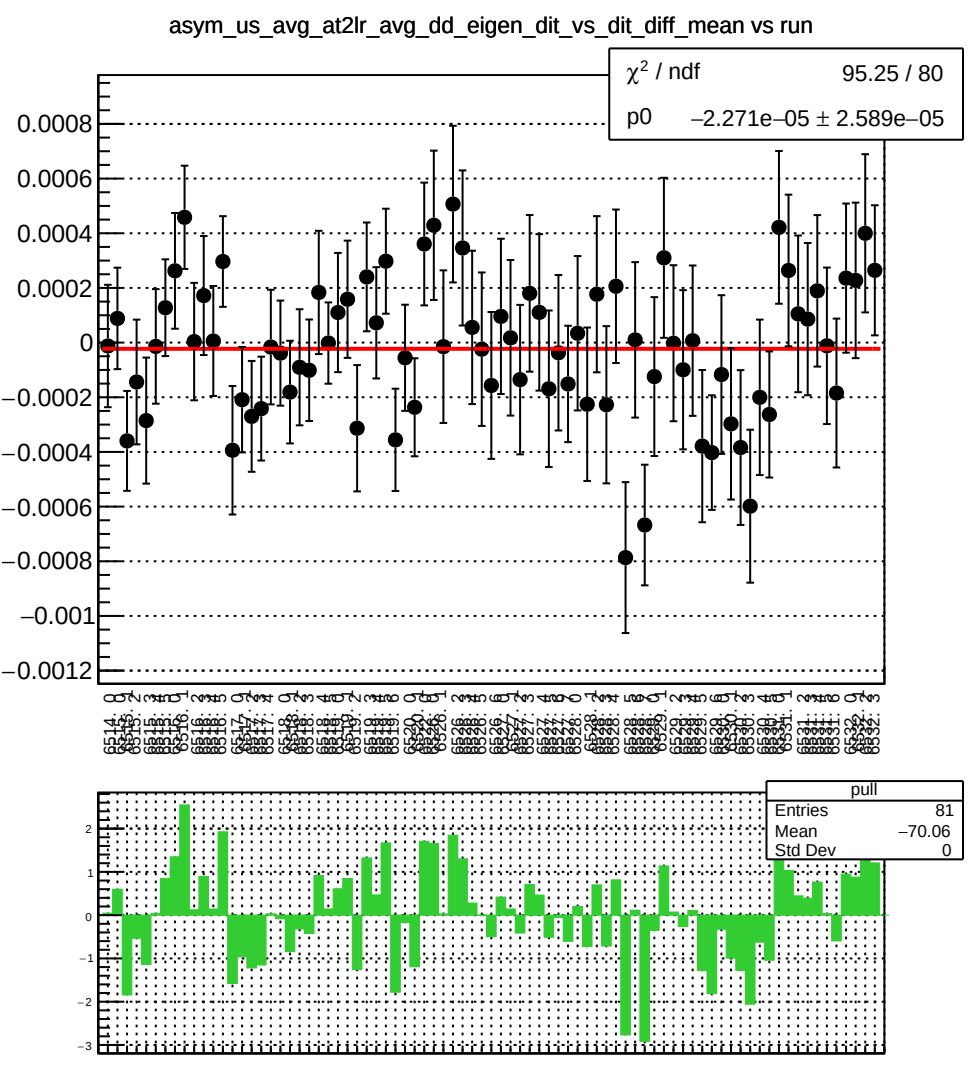

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.469e+05 / 80
p0 9.207e−11 ± 1.175e−13
0.6
0.5
0.4
0.3
0.2
0.1
0

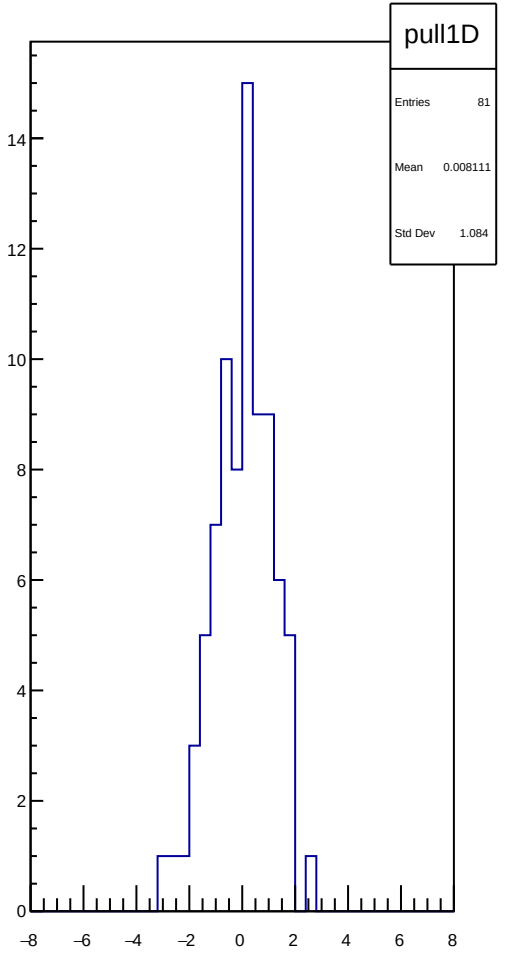

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 106.8 / 80
p0 −0.7045 ± 0.5727
pull
Entries 81
Mean −165
Std Dev 0
pull1D
Entries 81
Mean 0.05133
Std Dev 1.147

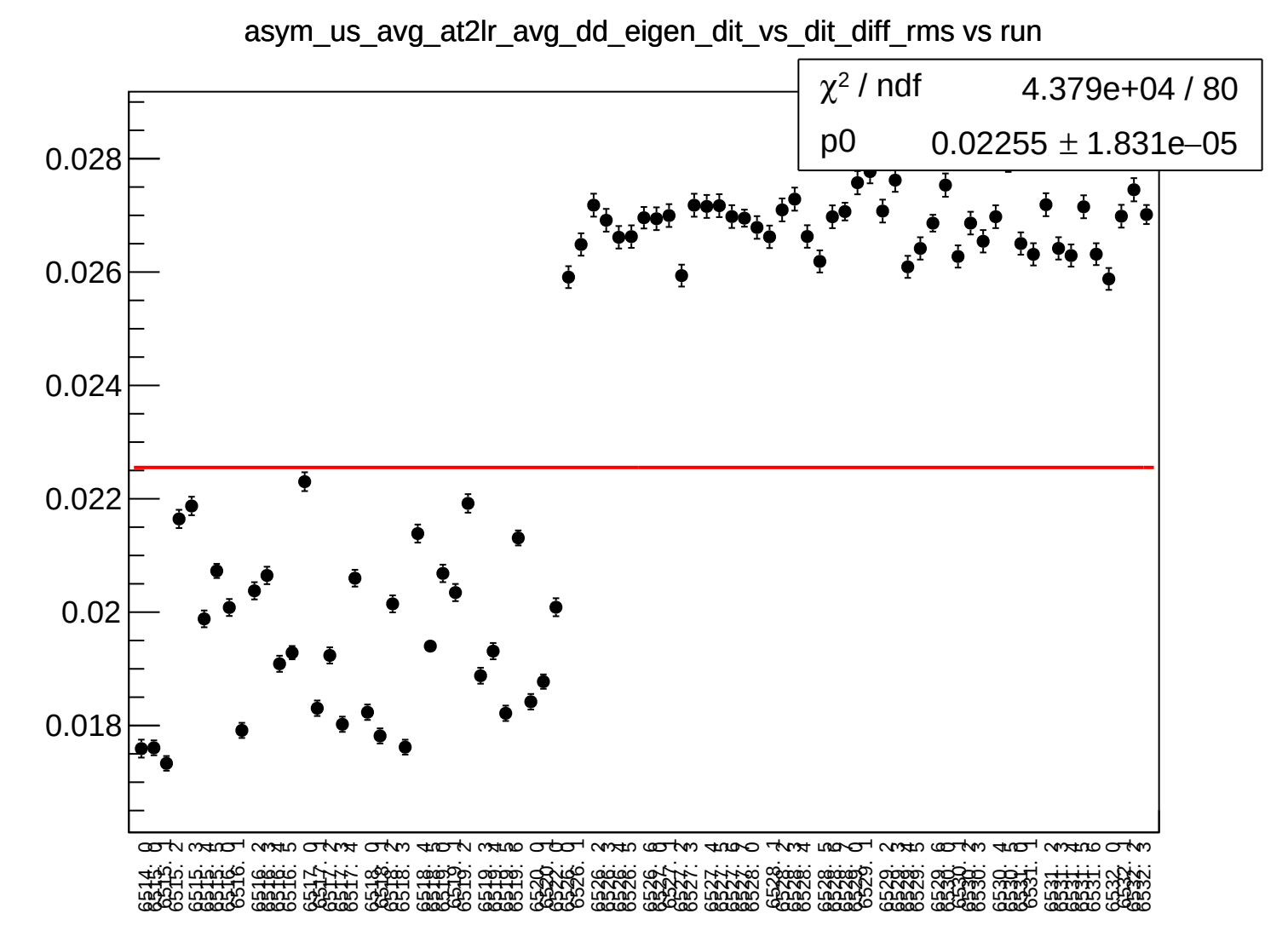

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.981e+04 / 80
p0 492.8 ± 0.405
1000
900
800
700
600
500
400
300

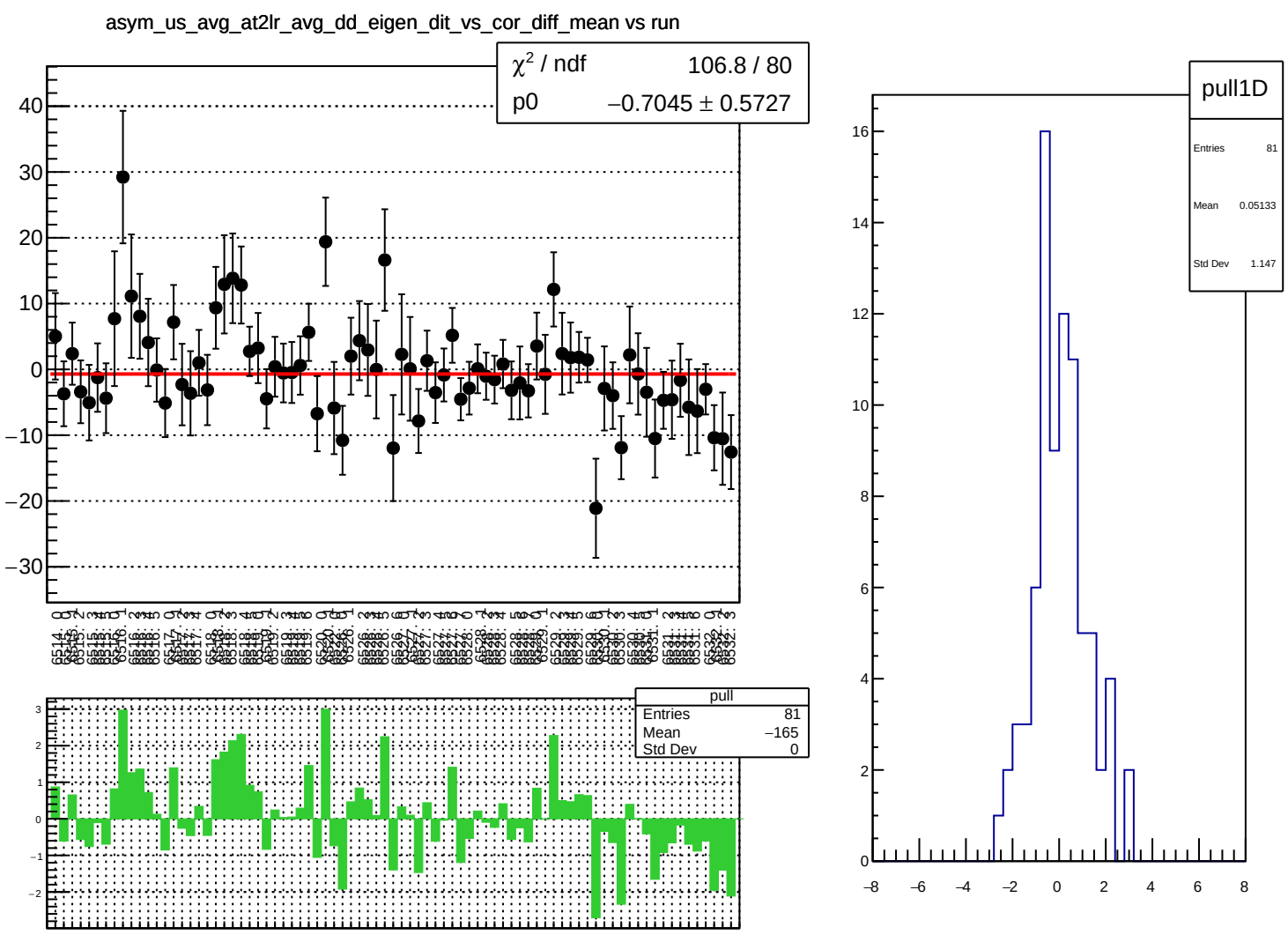

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.8 / 80
p0 −0.7045 ± 0.5727
pull
Entries 81
Mean −165
Std Dev 0
pull1D
Entries 81
Mean 0.05133
Std Dev 1.147

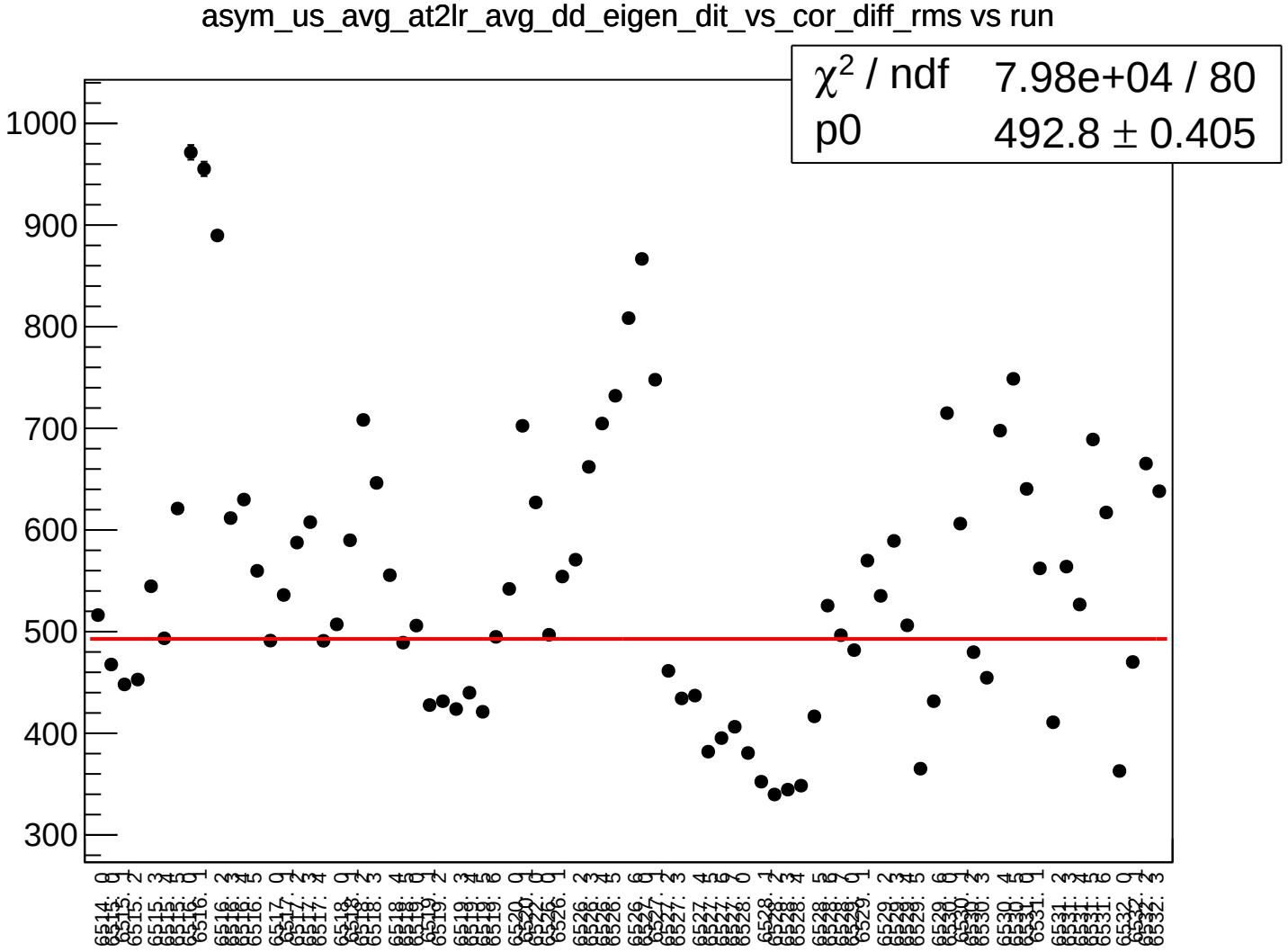

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.981e+04 / 80
p0 492.8 ± 0.405
1000
900
800
700
600
500
400
300

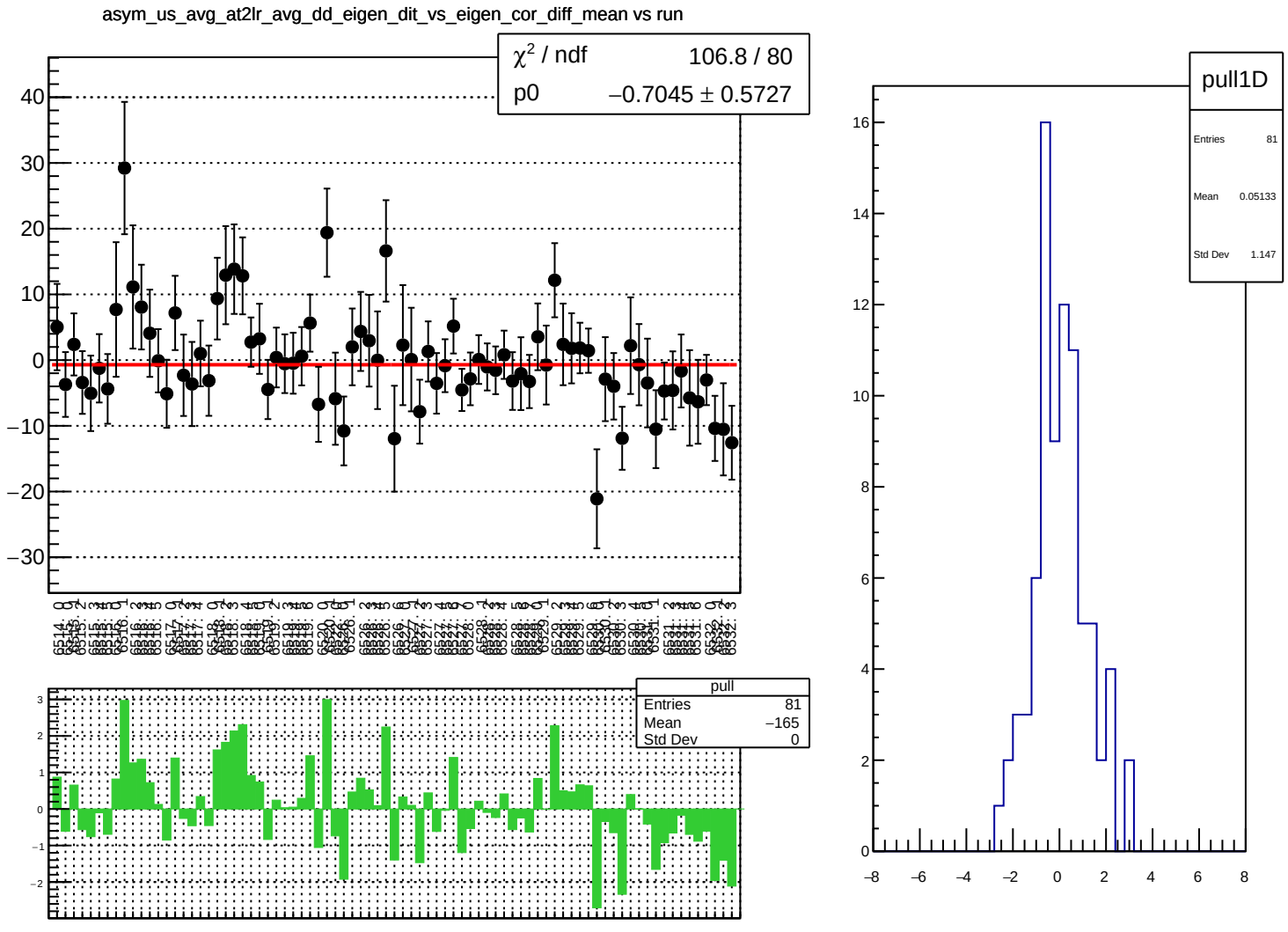

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 95.25 / 80
p0 −2.271e−05 ± 2.589e−05
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
pull
Entries 81
Mean −70.06
Std Dev 0
2
1
0
−1
−2
−3

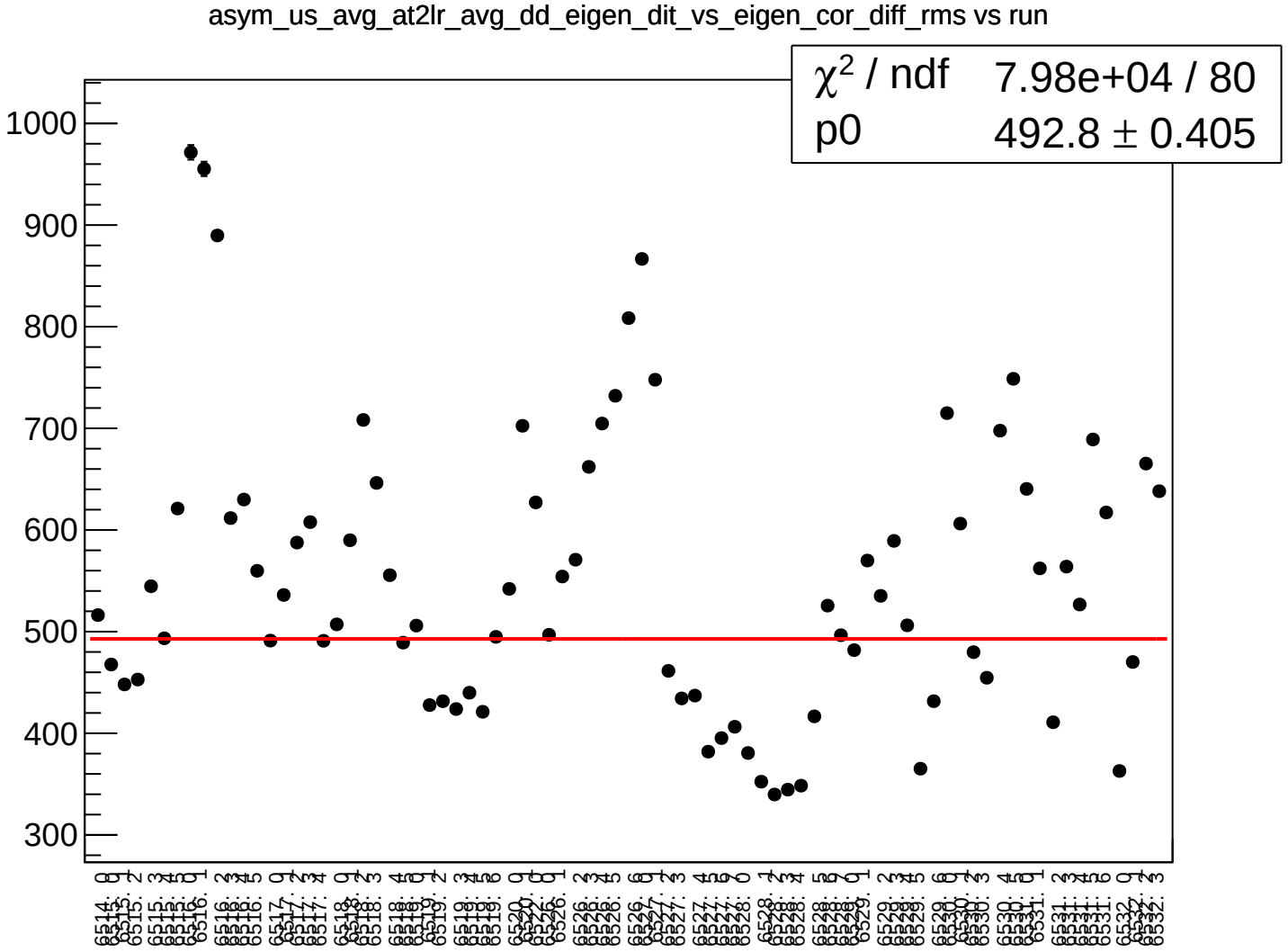

pull1D
Entries 81
Mean 0.008111
Std Dev 1.084
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

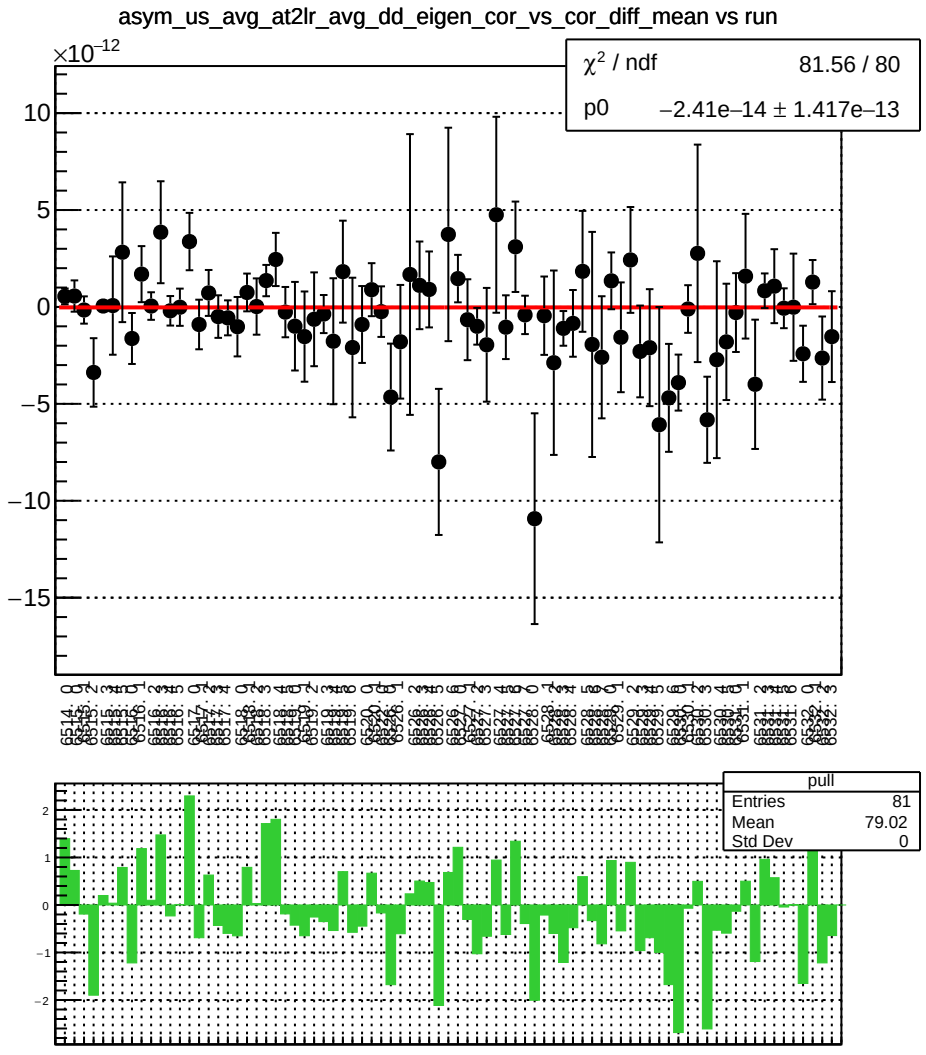

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.379e+04 / 80
p0 0.02255 ± 1.831e−05
0.028
0.026
0.024
0.022
0.02
0.018

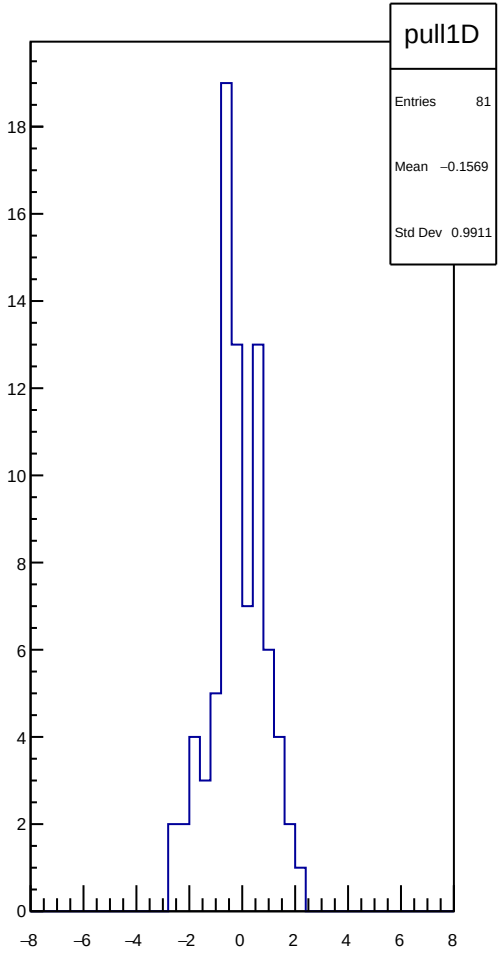

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 106.8 / 80
p0 −0.7045 ± 0.5727
pull
Entries 81
Mean −165
Std Dev 0
pull1D
Entries 81
Mean 0.05133
Std Dev 1.147

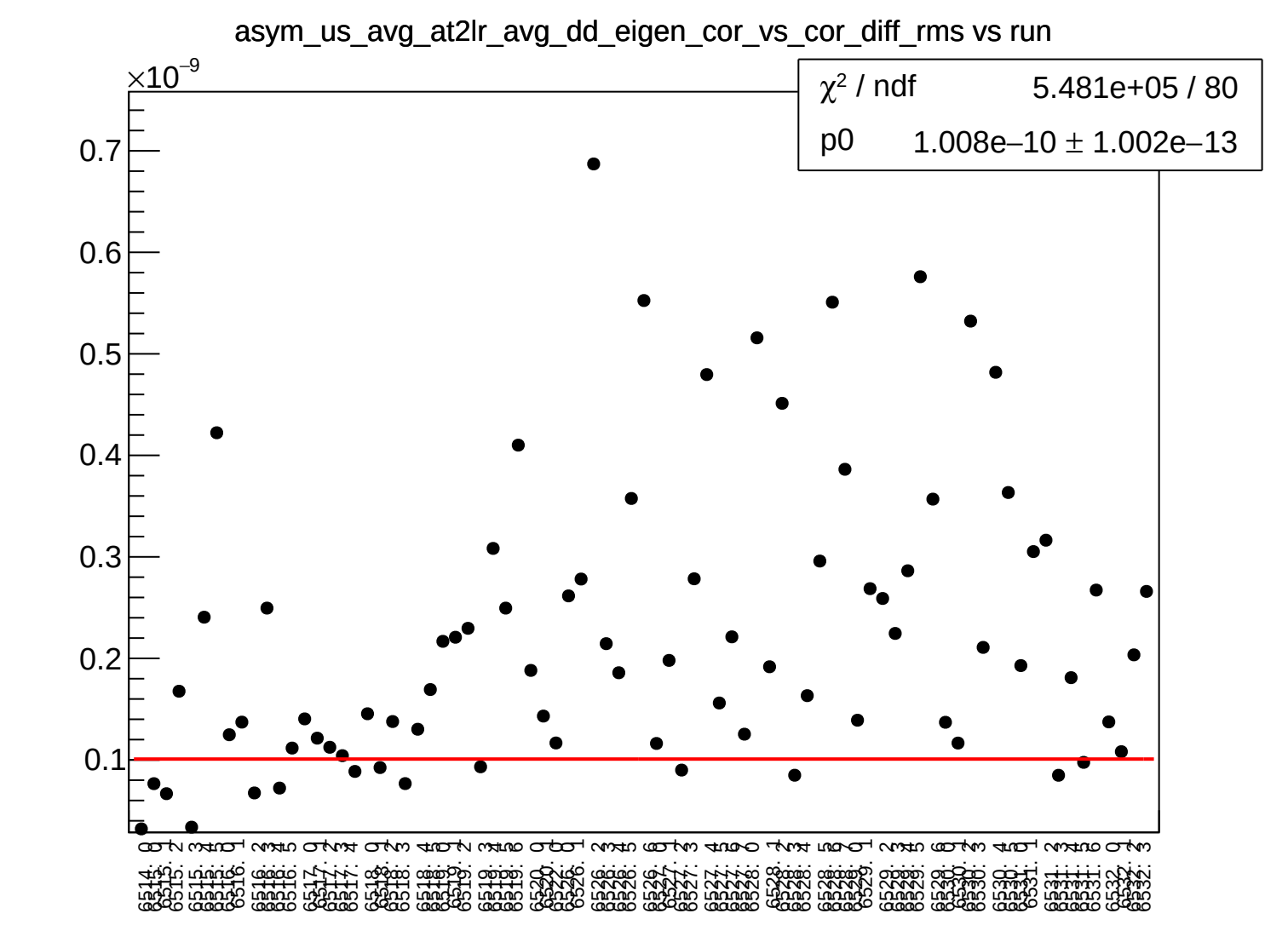

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.98e+04 / 80
p0 492.8 ± 0.405
1000
900
800
700
600
500
400
300

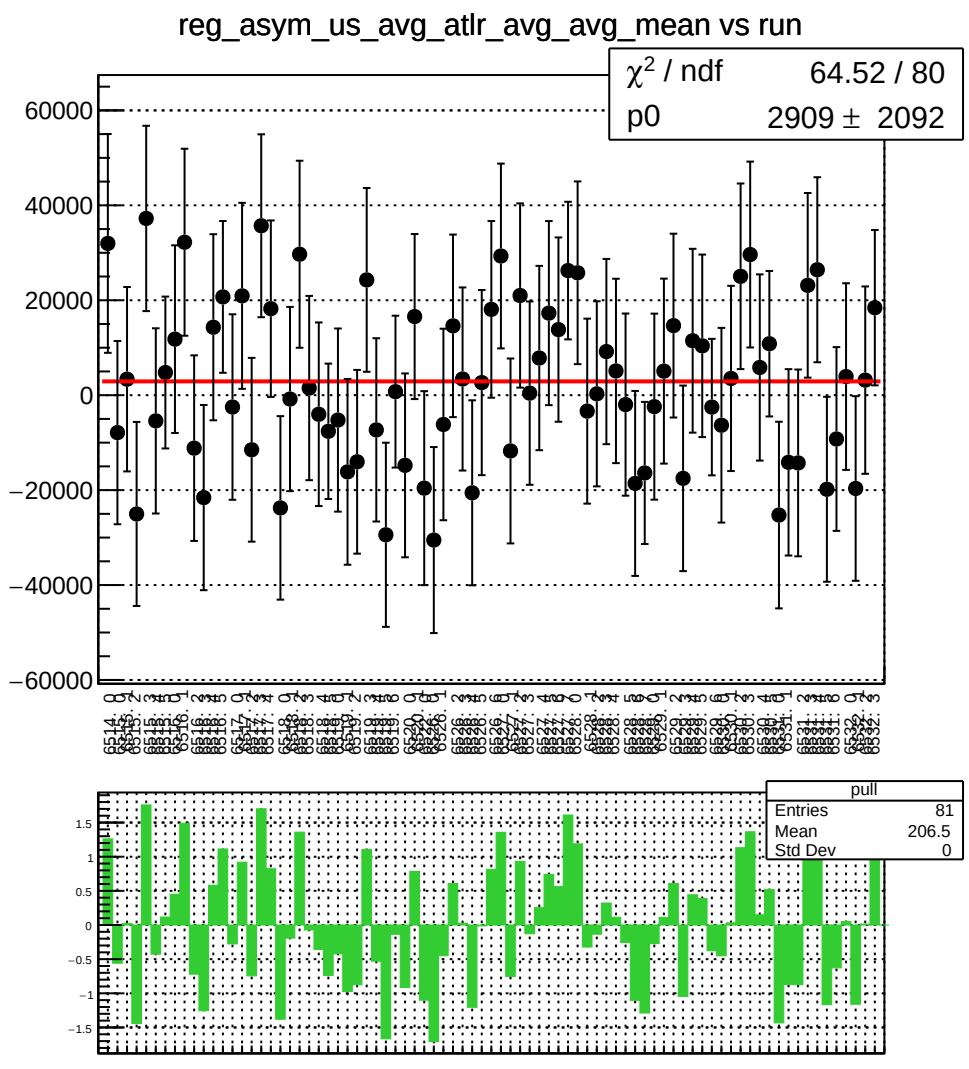

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.8 / 80
p0 −0.7045 ± 0.5727
pull
Entries 81
Mean −165
Std Dev 0
pull1D
Entries 81
Mean 0.05133
Std Dev 1.147

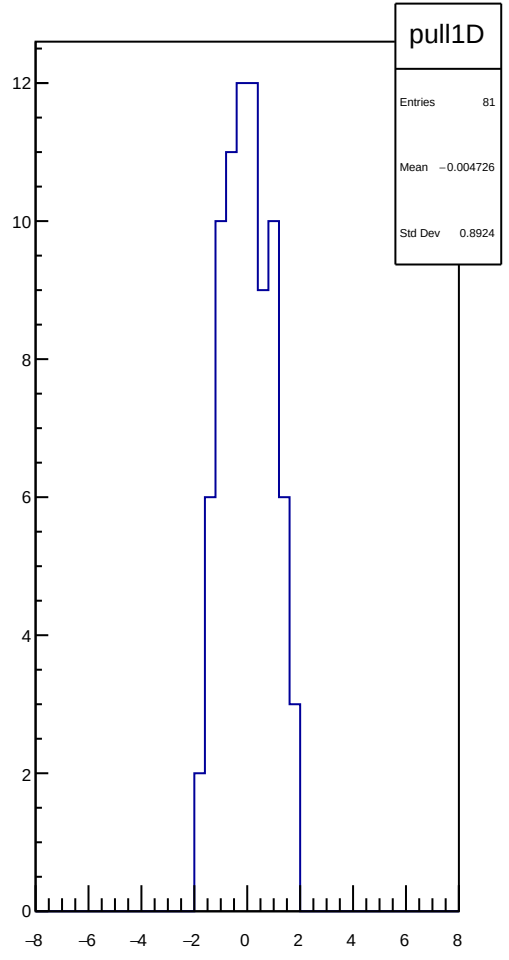

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.98e+04 / 80
p0 492.8 ± 0.405
1000
900
800
700
600
500
400
300

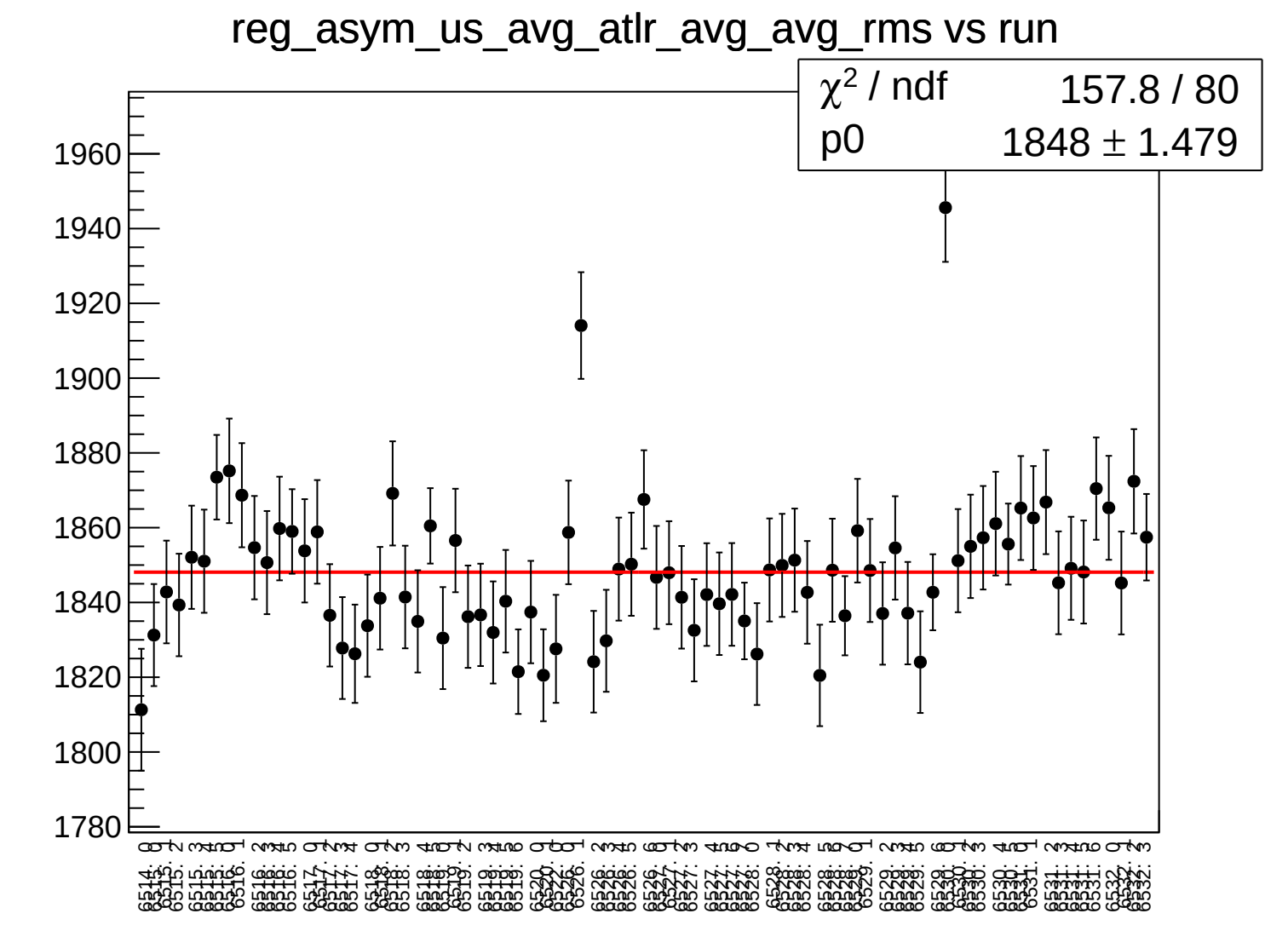

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.56 / 80
p0 −2.41e−14 ± 1.417e−13
pull
Entries 81
Mean 79.02
Std Dev 0

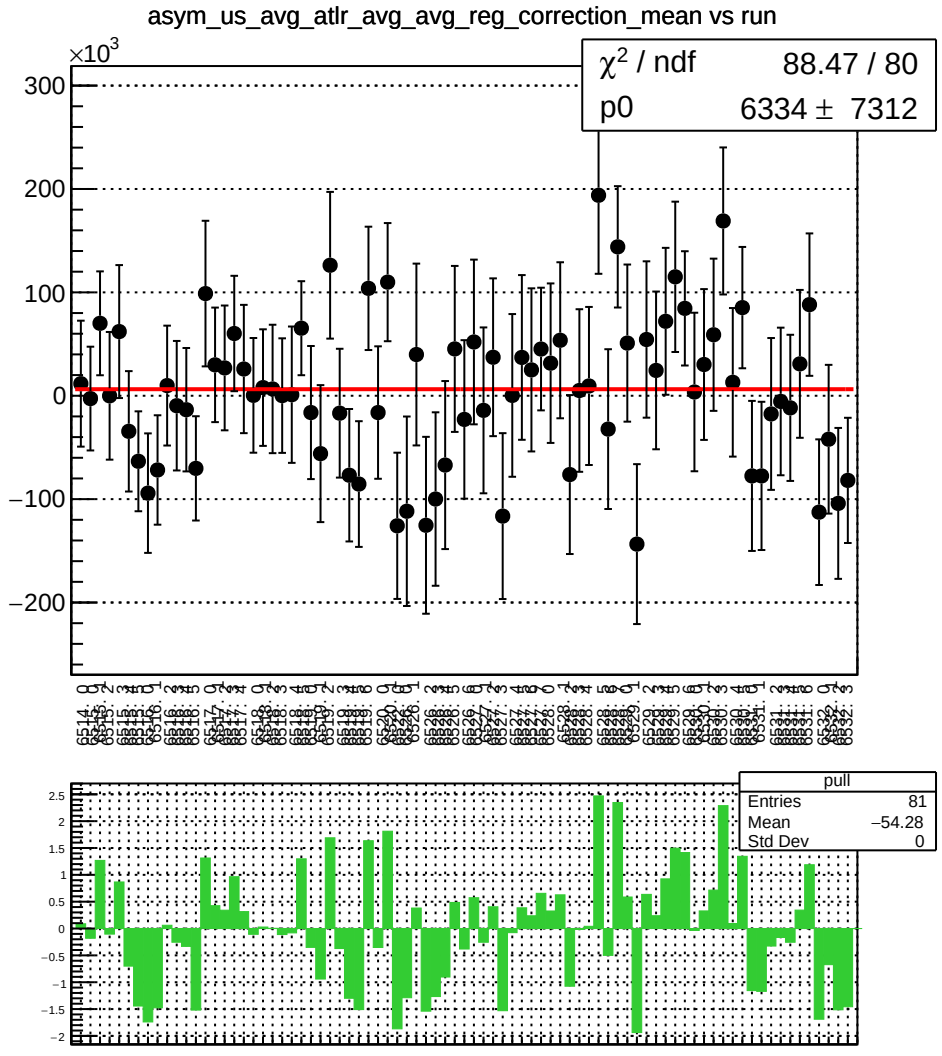

pull1D
Entries 81
Mean −0.1569
Std Dev 0.9911

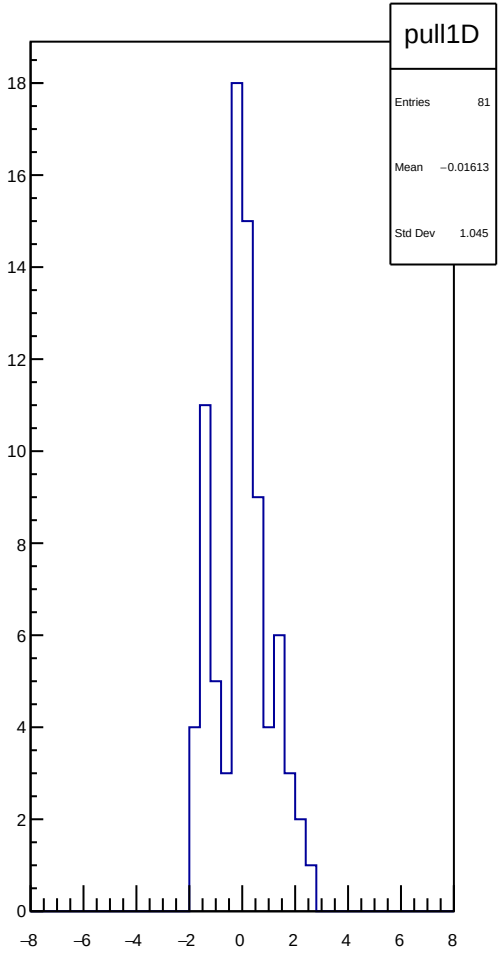

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.481e+05 / 80
p0 1.008e−10 ± 1.002e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1

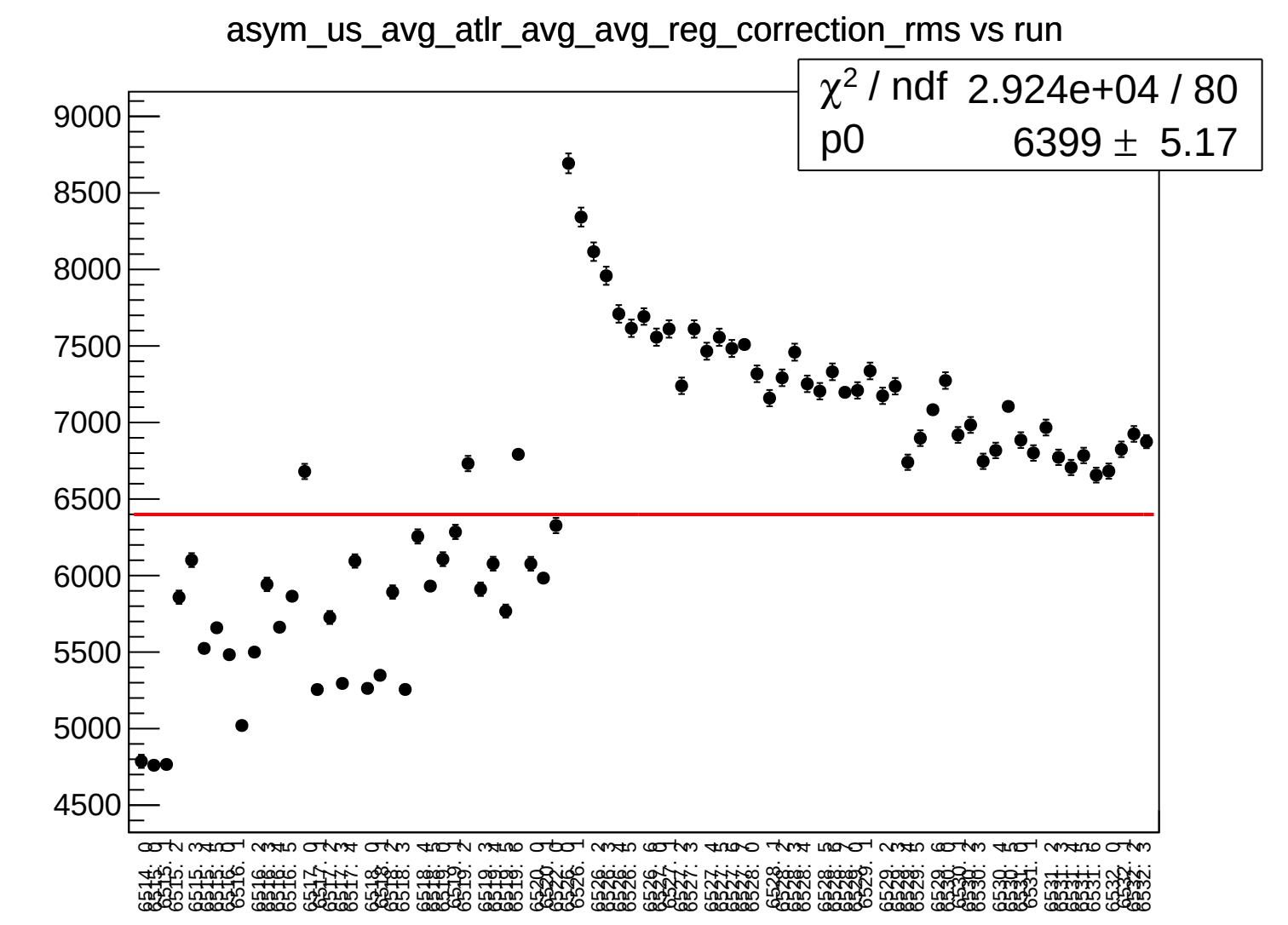

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 64.52 / 80
p0 2909 ± 2092
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean 206.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

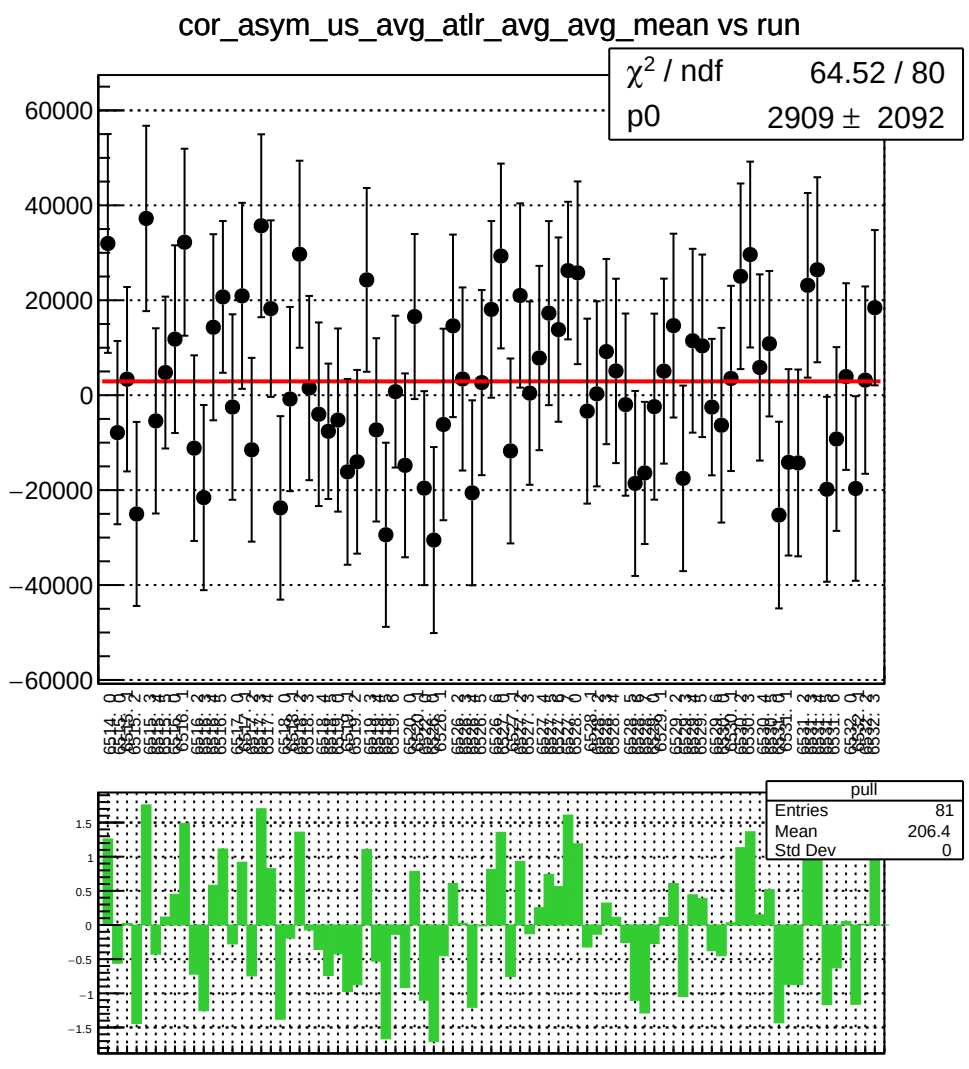

pull1D
Entries 81
Mean −0.004726
Std Dev 0.8924
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

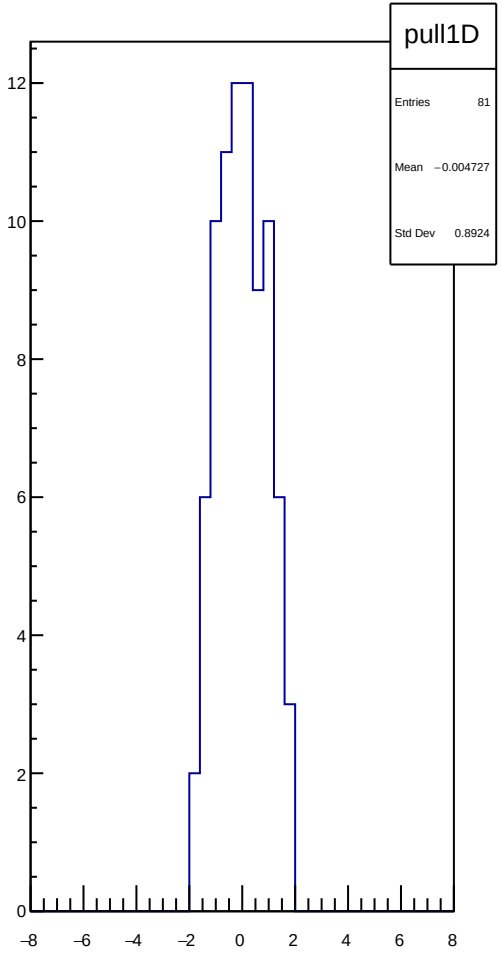

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 157.8 / 80
p0 1848 ± 1.479
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780

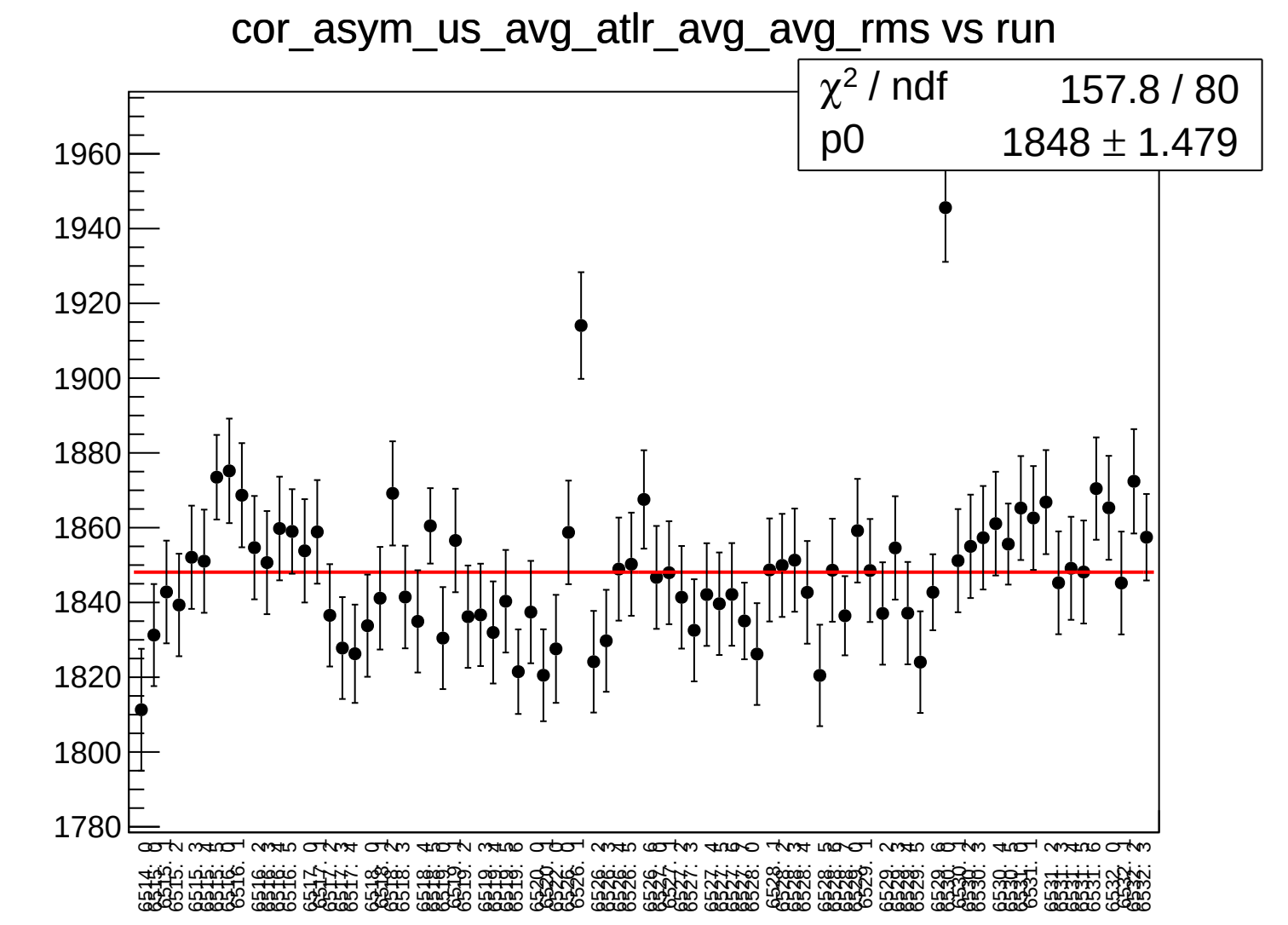

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 88.47 / 80
p0 6334 ± 7312
pull
Entries 81
Mean −54.28
Std Dev 0

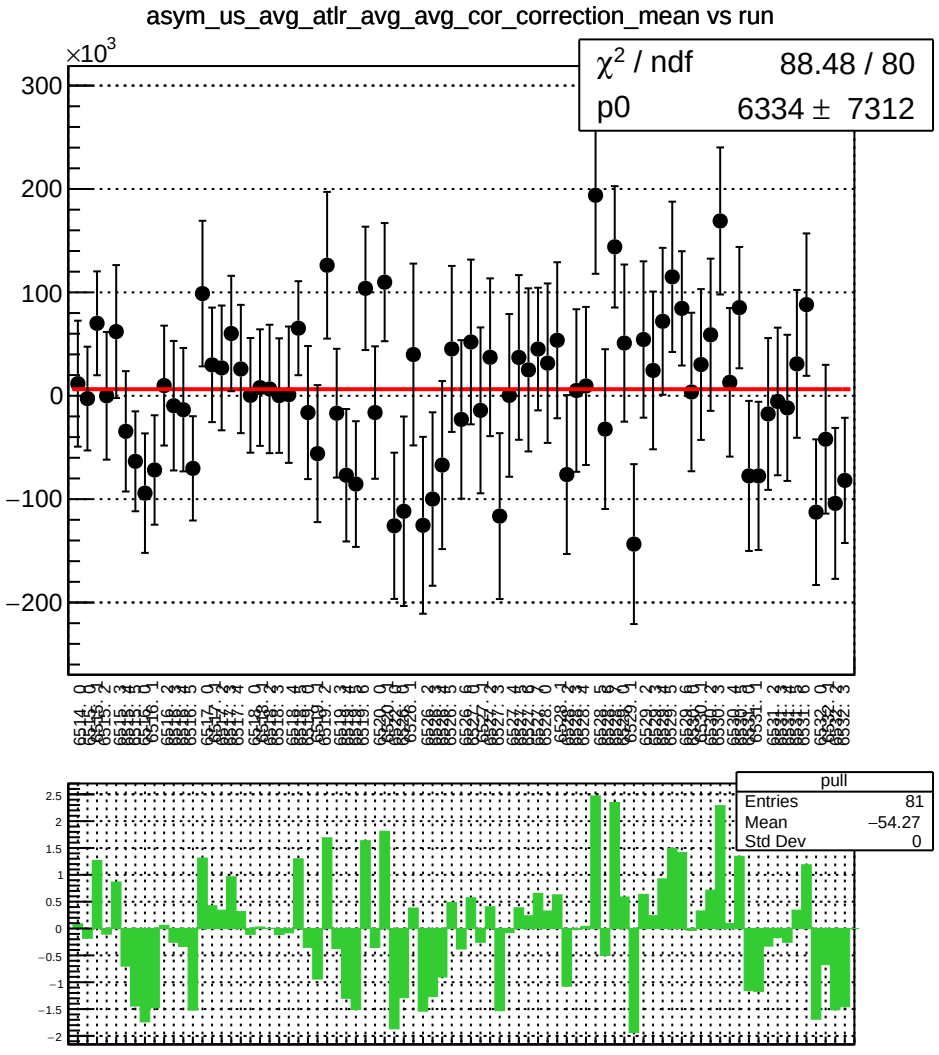

pull1D
Entries 81
Mean −0.01613
Std Dev 1.045

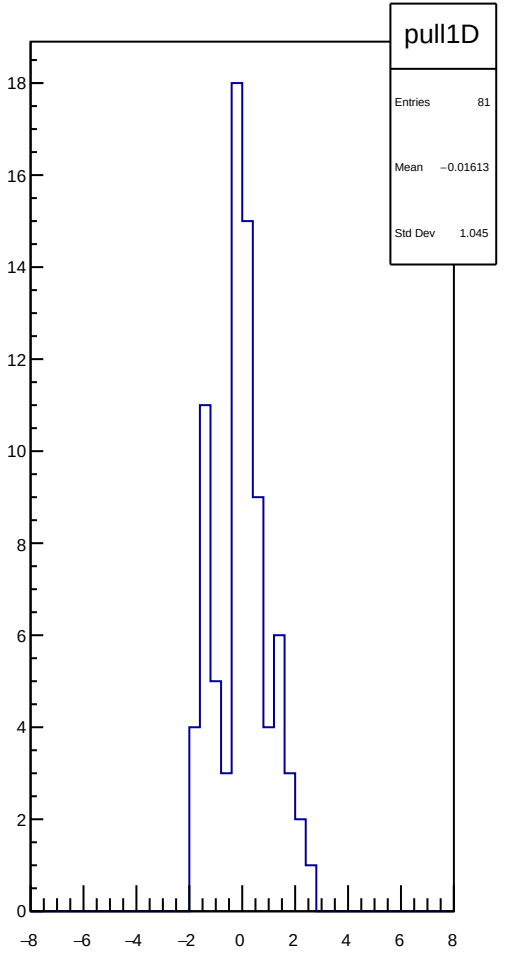

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ² / ndf 2.924e+04 / 80
p0 6399 ± 5.17
9000
8500
8000
7500
7000
6500
6000
5500
5000
4500

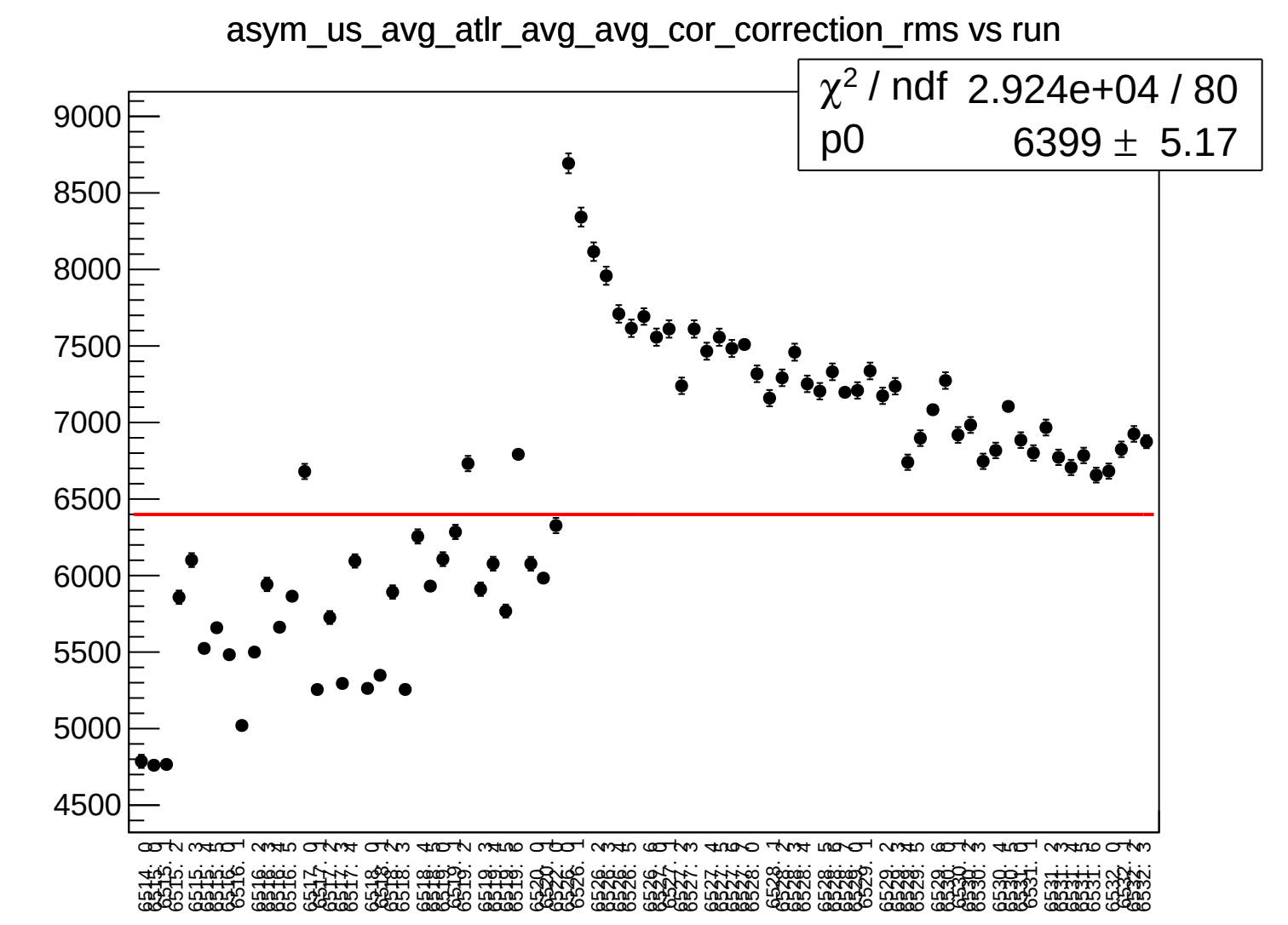

cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 64.52 / 80
p0 2909 ± 2092
pull
Entries 81
Mean 206.4
Std Dev 0

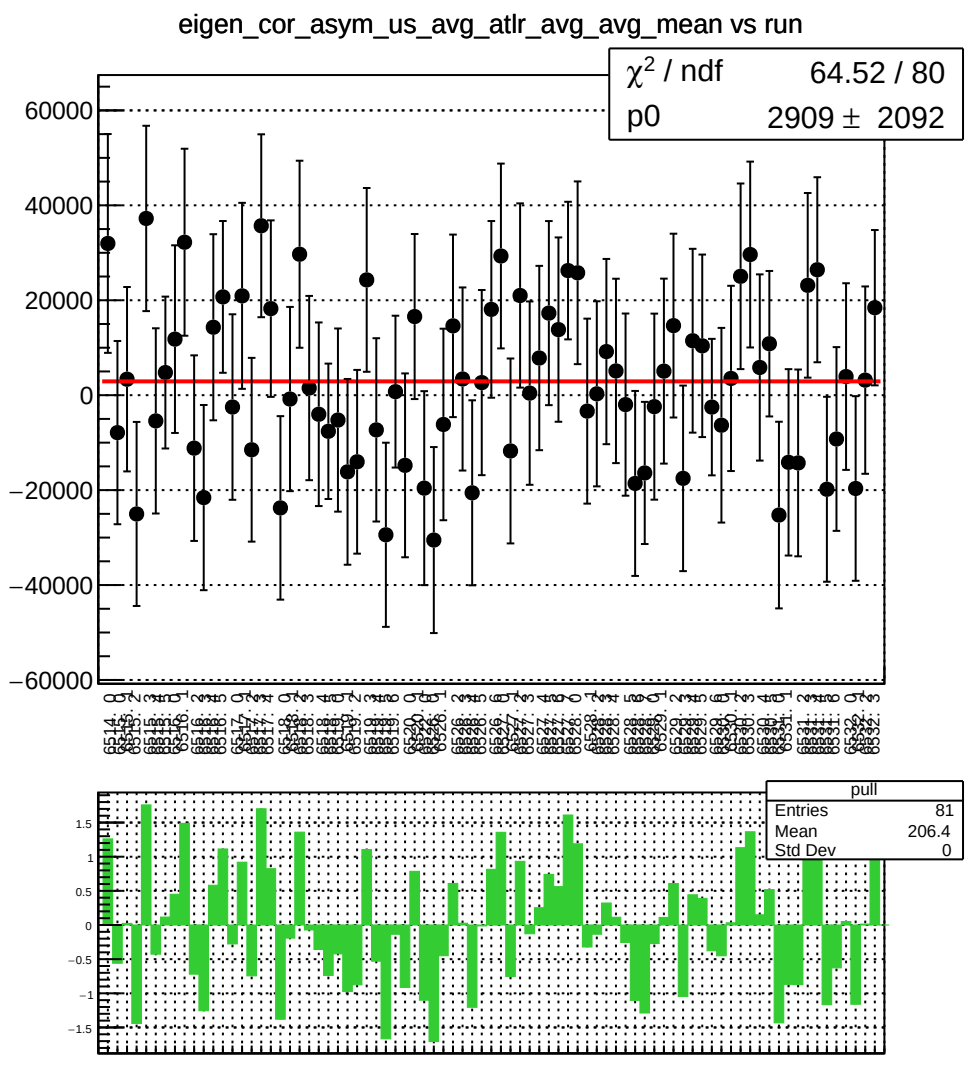

pull1D
Entries 81
Mean −0.004727
Std Dev 0.8924

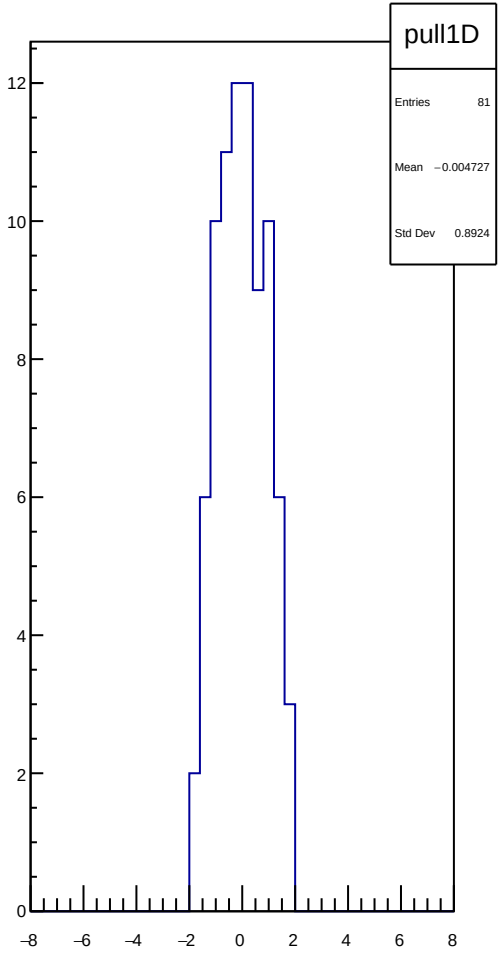

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 157.8 / 80
p0 1848 ± 1.479
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780

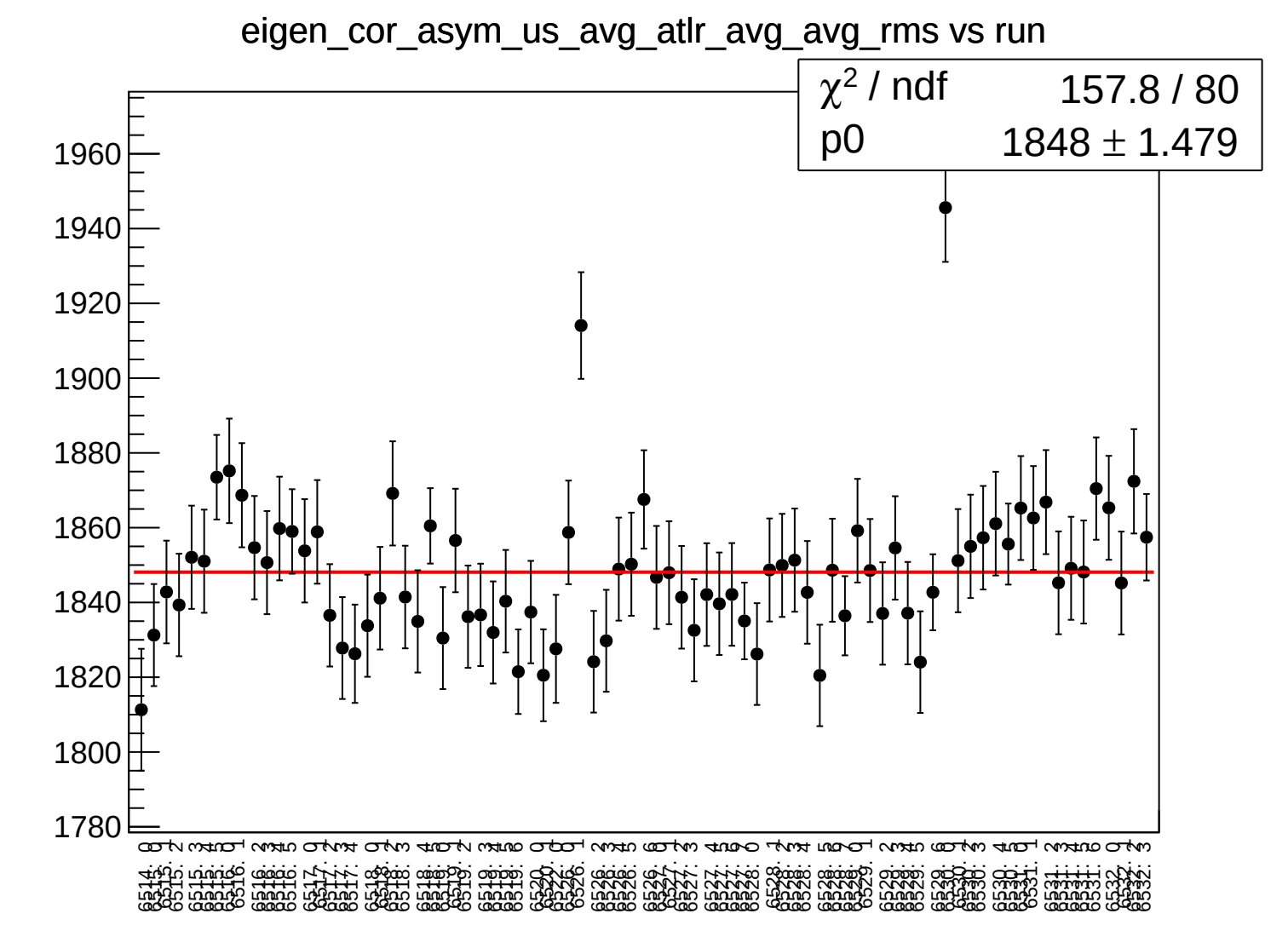

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 88.48 / 80
p0 6334 ± 7312
pull
Entries 81
Mean −54.27
Std Dev 0

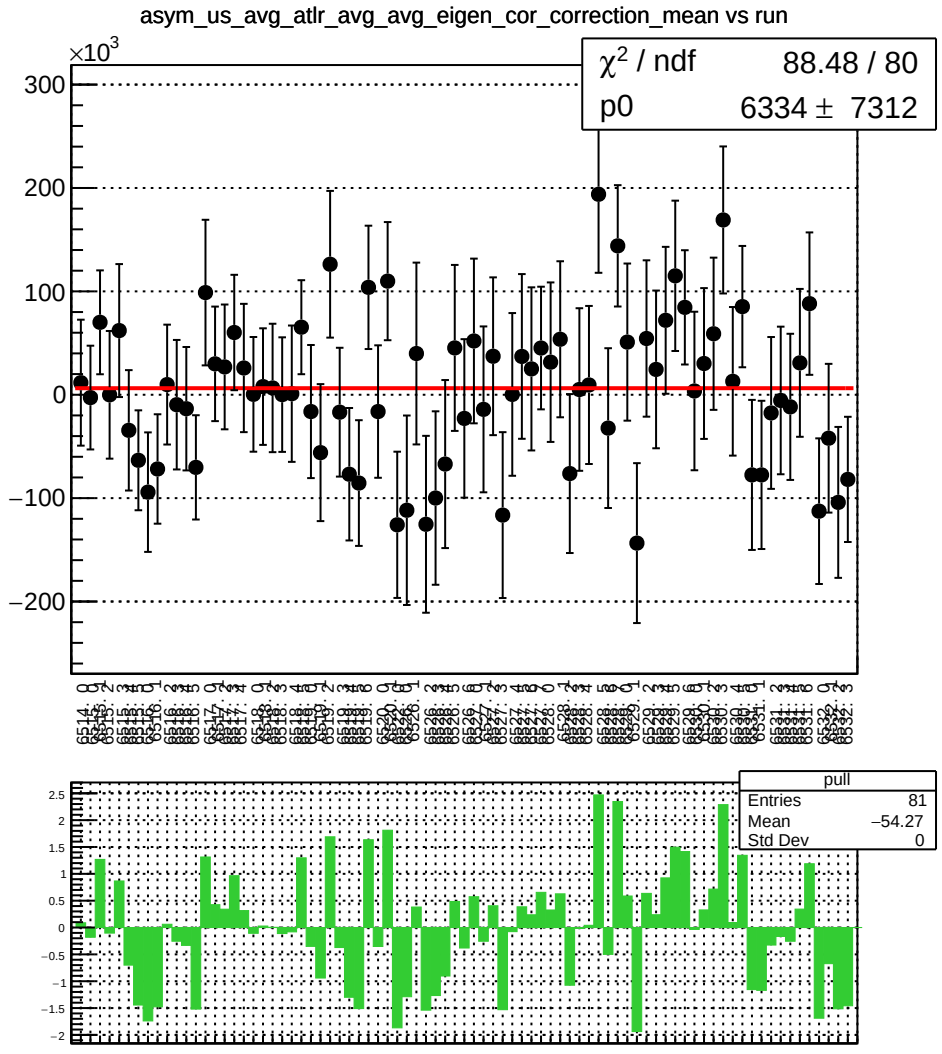

pull1D
Entries 81
Mean −0.01613
Std Dev 1.045

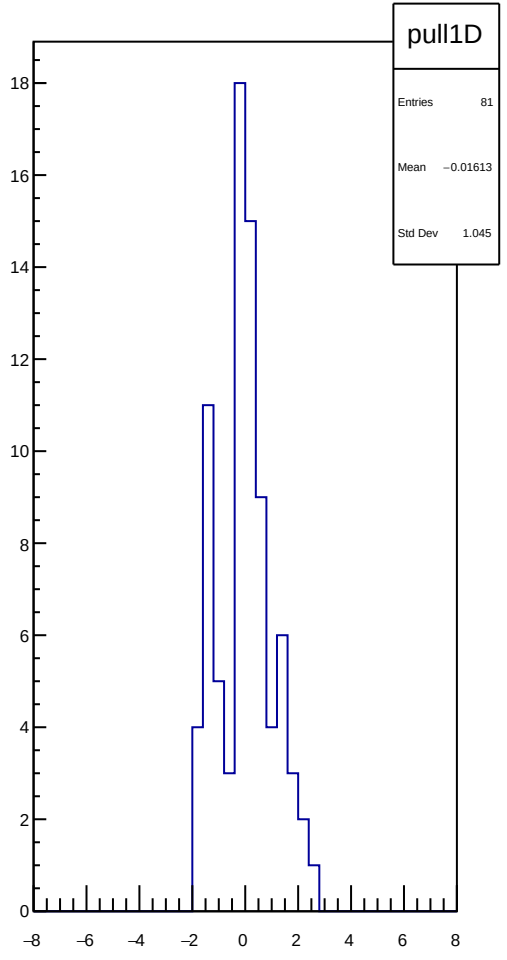

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ² / ndf 2.924e+04 / 80
p0 6399 ± 5.17
9000
8500
8000
7500
7000
6500
6000
5500
5000
4500

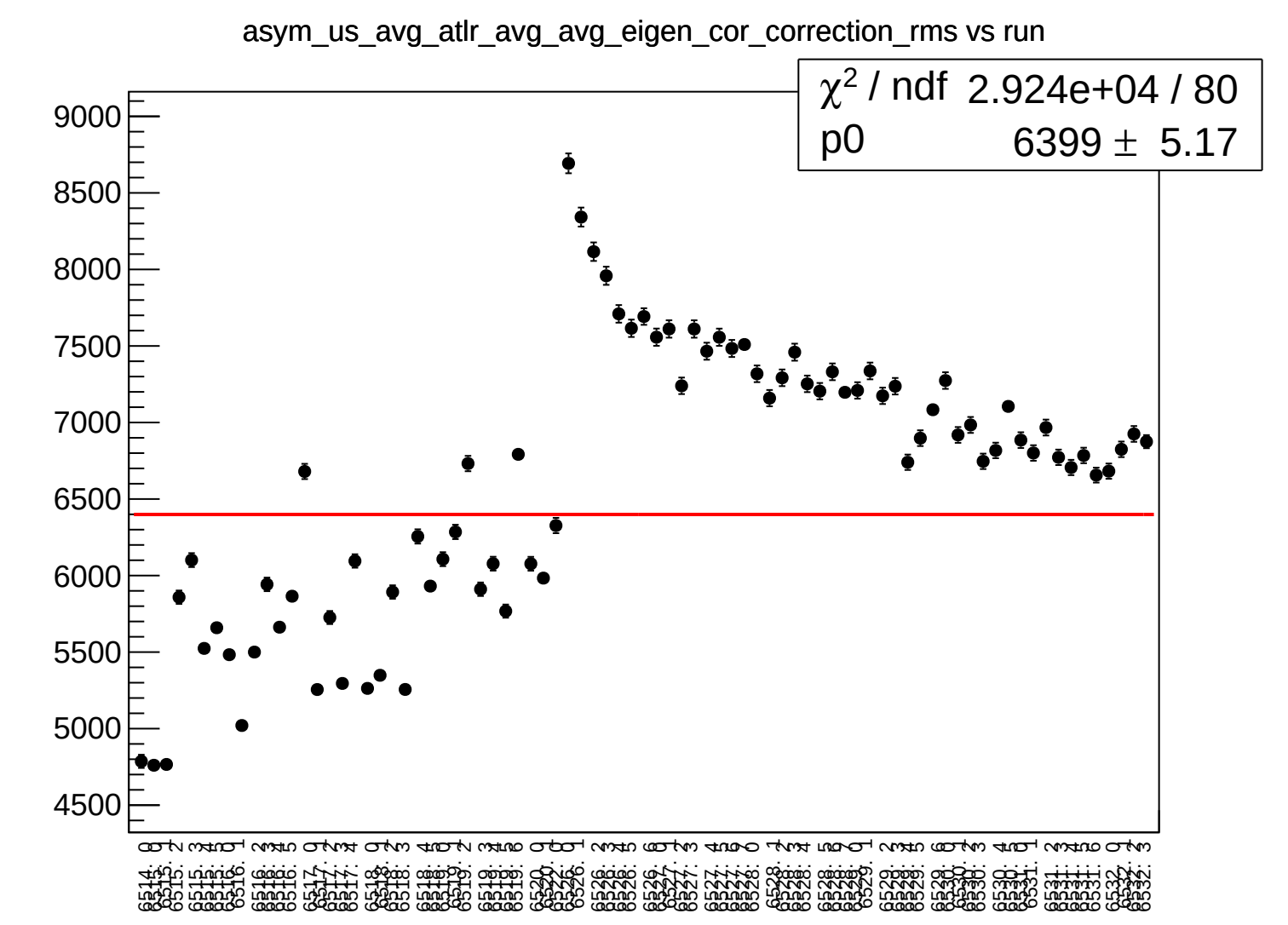

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 64.52 / 80
p0 2909 ± 2092
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean 206.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

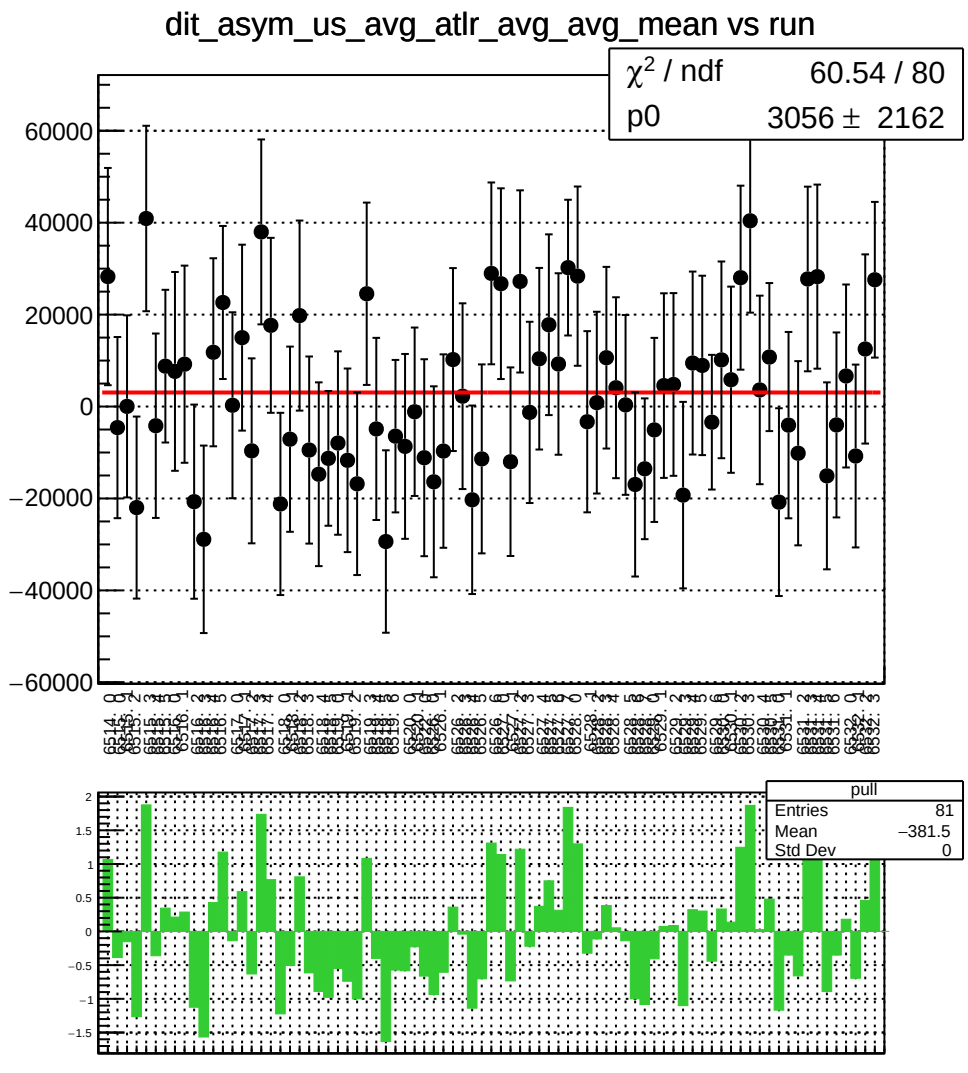

pull1D
Entries 81
Mean −0.004727
Std Dev 0.8924
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

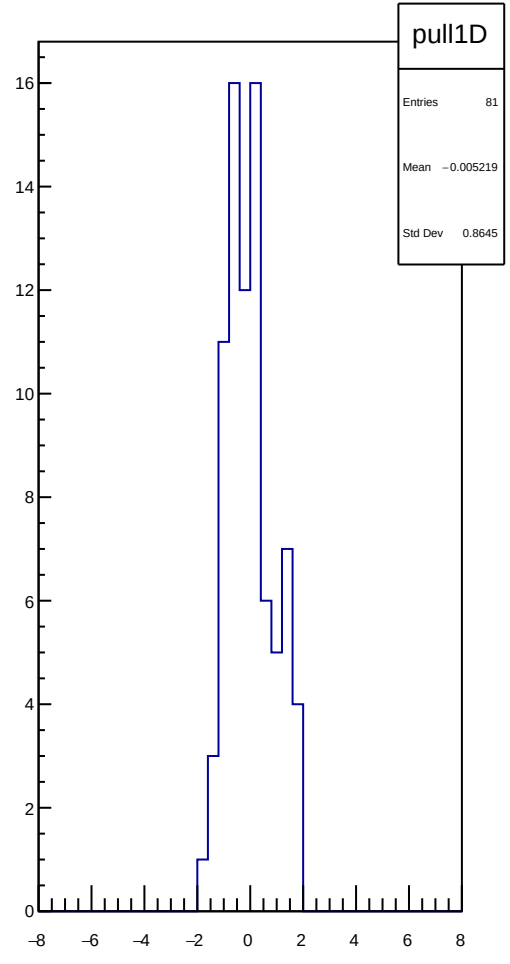

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 157.8 / 80
p0 1848 ± 1.479
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780

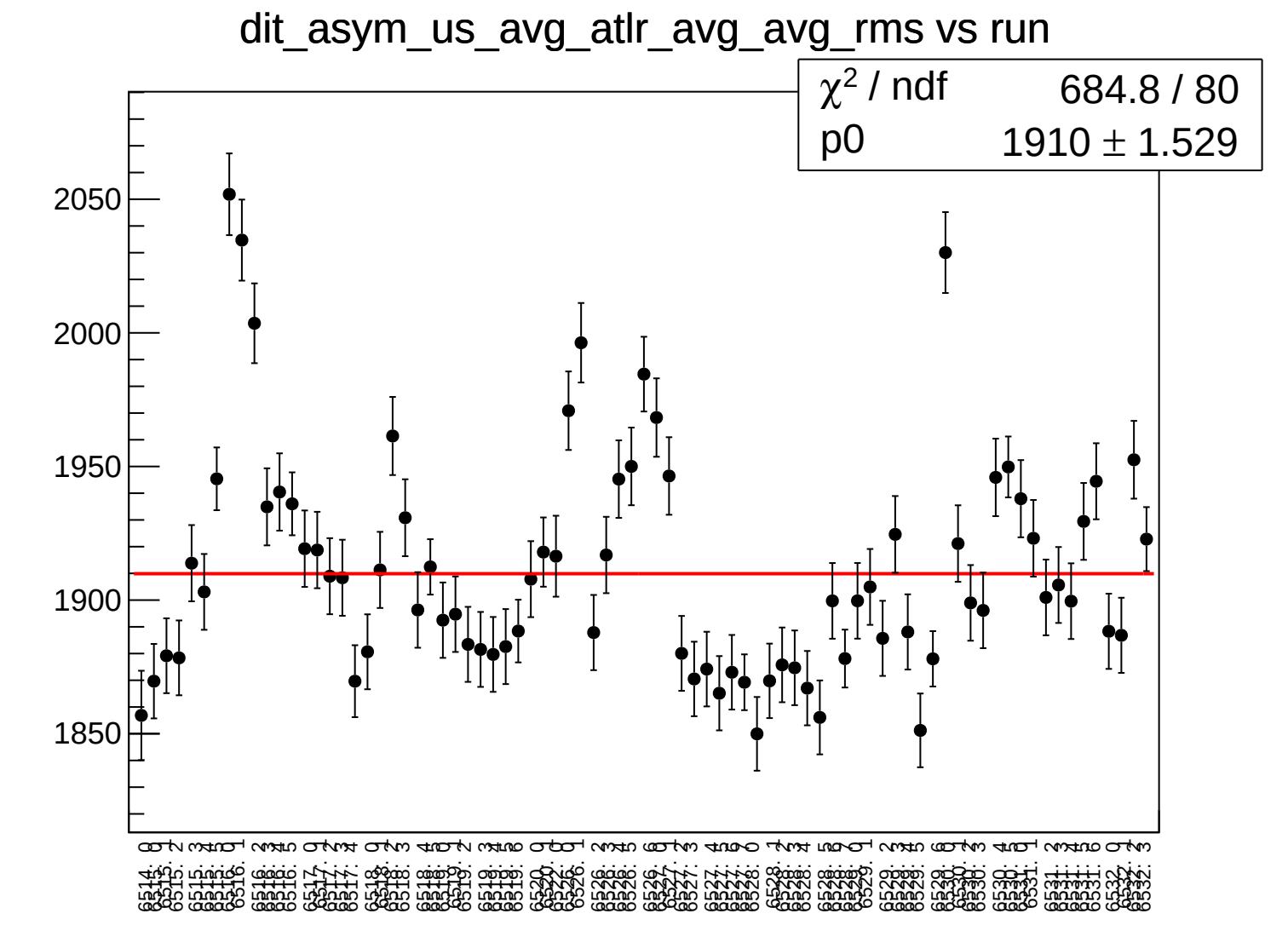

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 88.48 / 80
p0 6334 ± 7312
300
200
100
0
−100
−200
pull
Entries 81
Mean −54.27
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

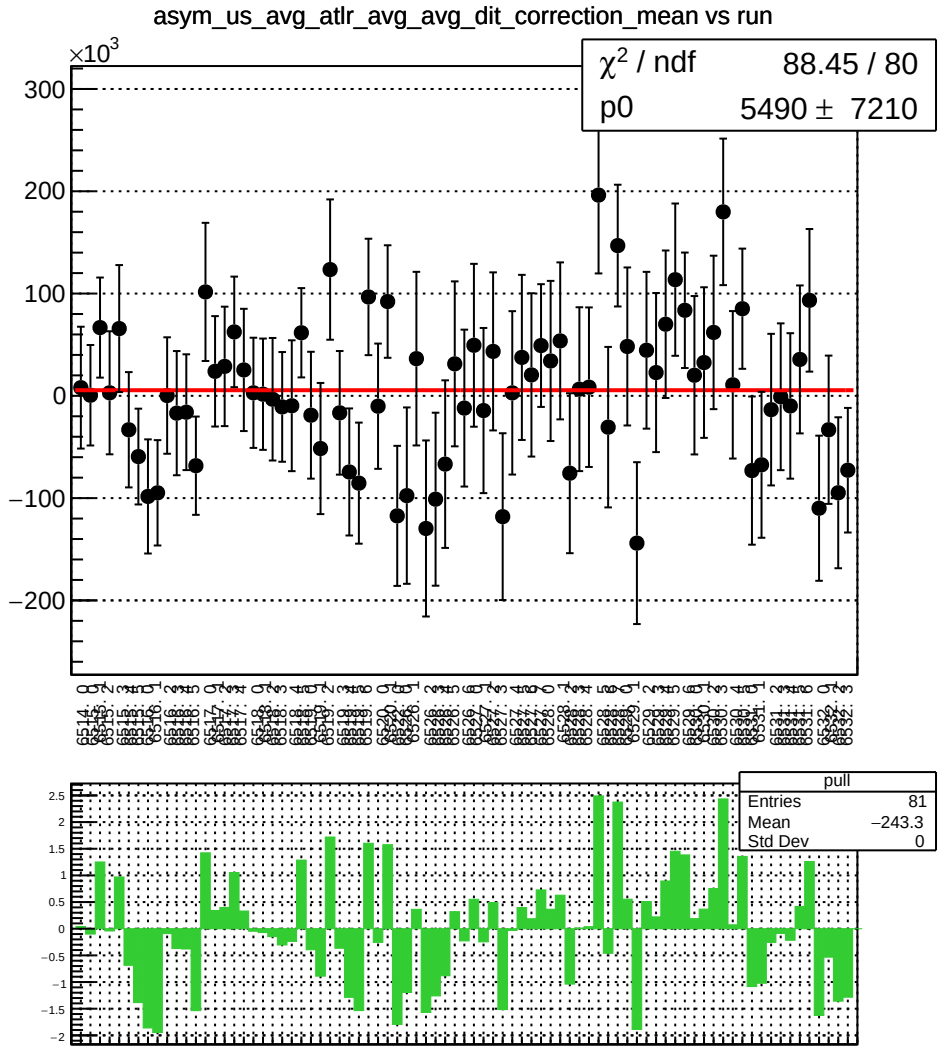

pull1D
Entries 81
Mean −0.01613
Std Dev 1.045
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

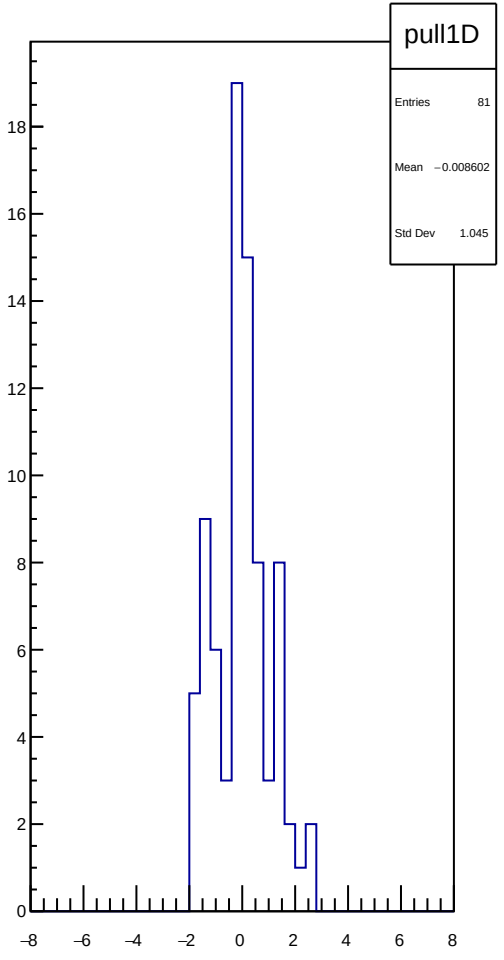

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.924e+04 / 80
p0 6399 ± 5.17
9000
8500
8000
7500
7000
6500
6000
5500
5000
4500

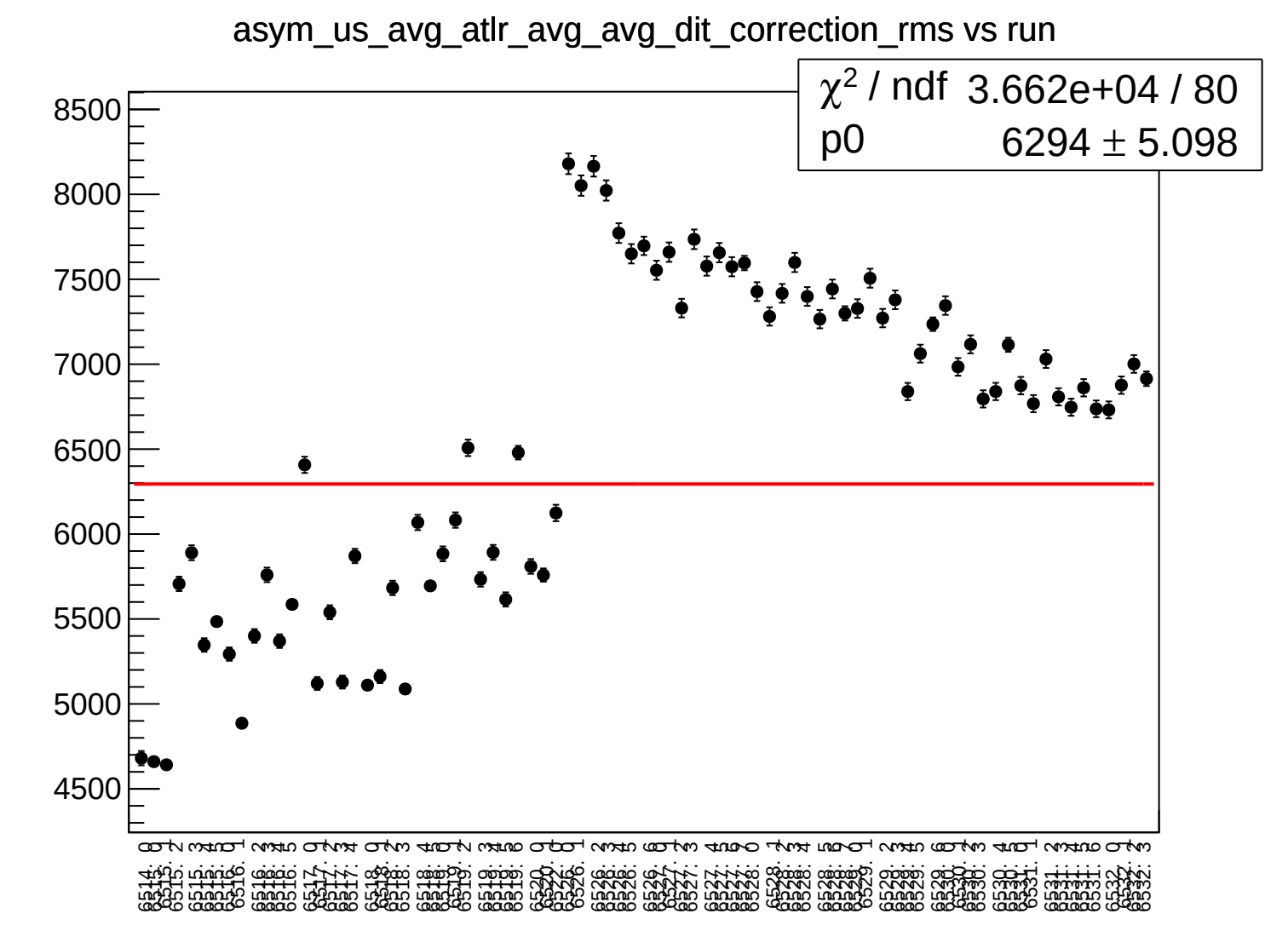

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 60.54 / 80
p0 3056 ± 2162
pull
Entries 81
Mean −381.5
Std Dev 0

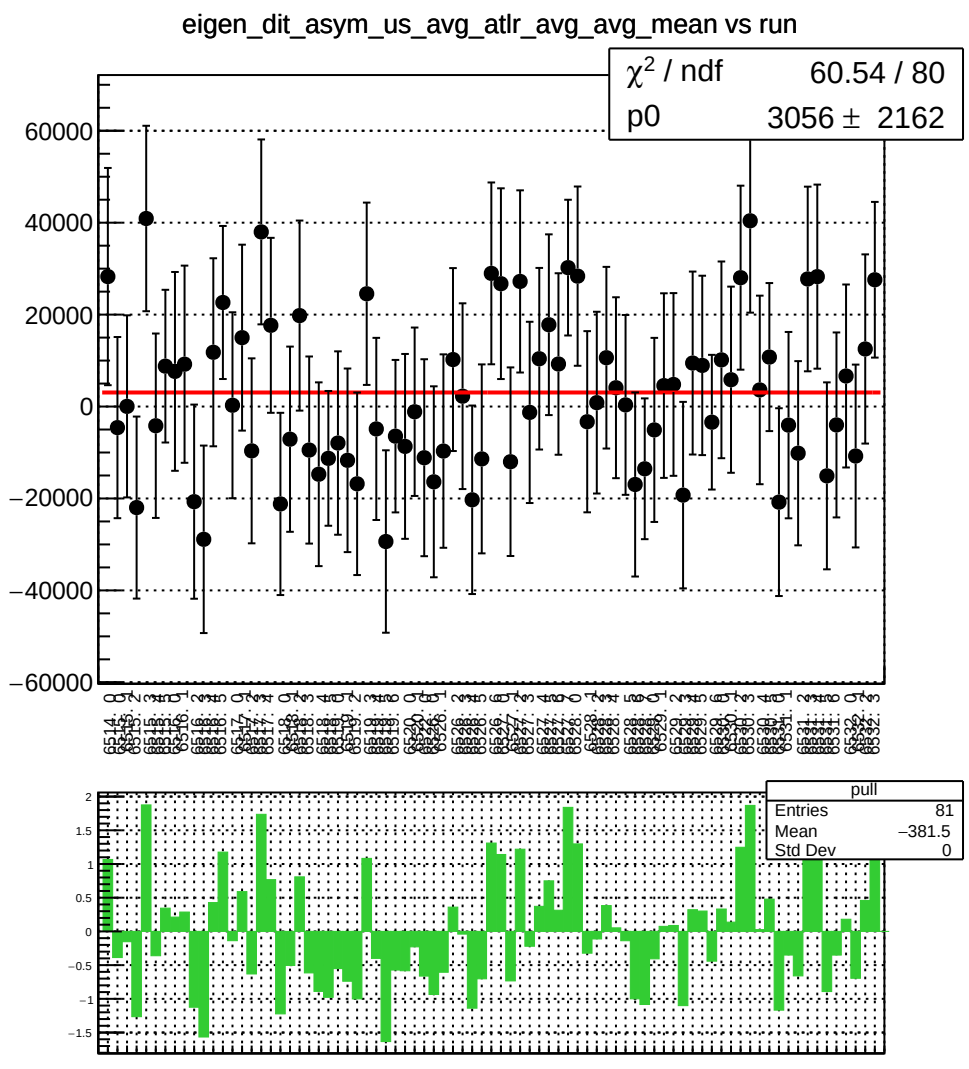

pull1D
Entries 81
Mean −0.005219
Std Dev 0.8645

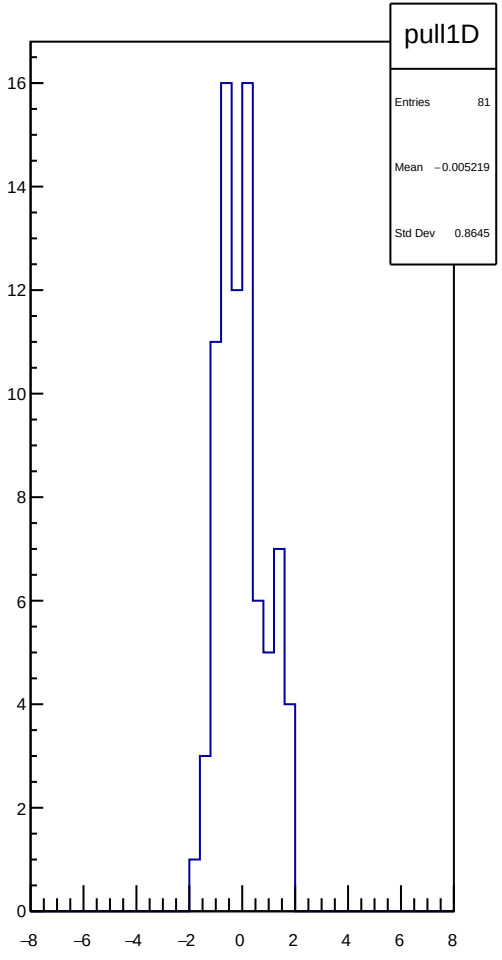

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 684.8 / 80
p0 1910 ± 1.529
2050
2000
1950
1900
1850

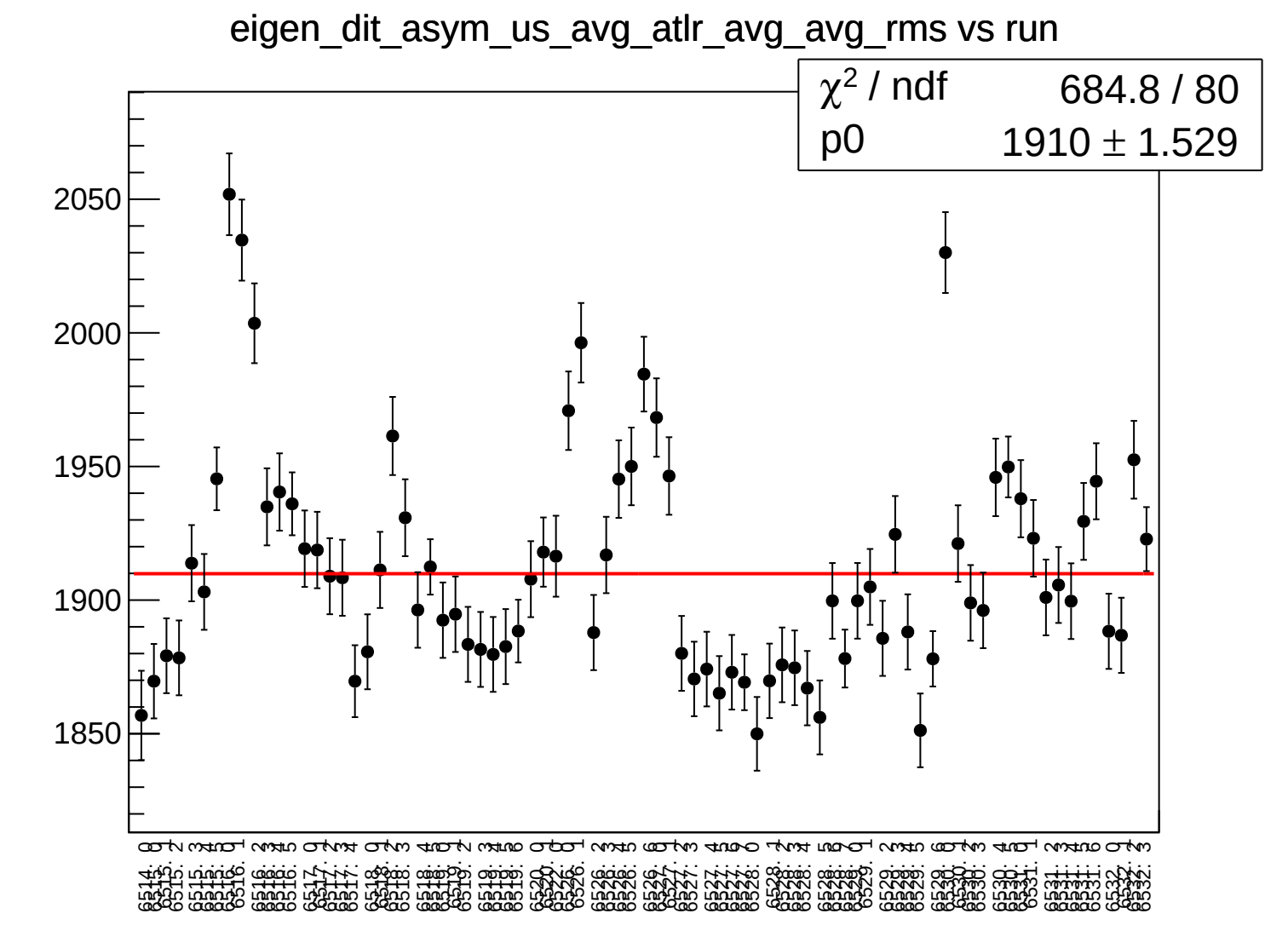

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 88.45 / 80
p0 5490 ± 7210
pull
Entries 81
Mean −243.3
Std Dev 0

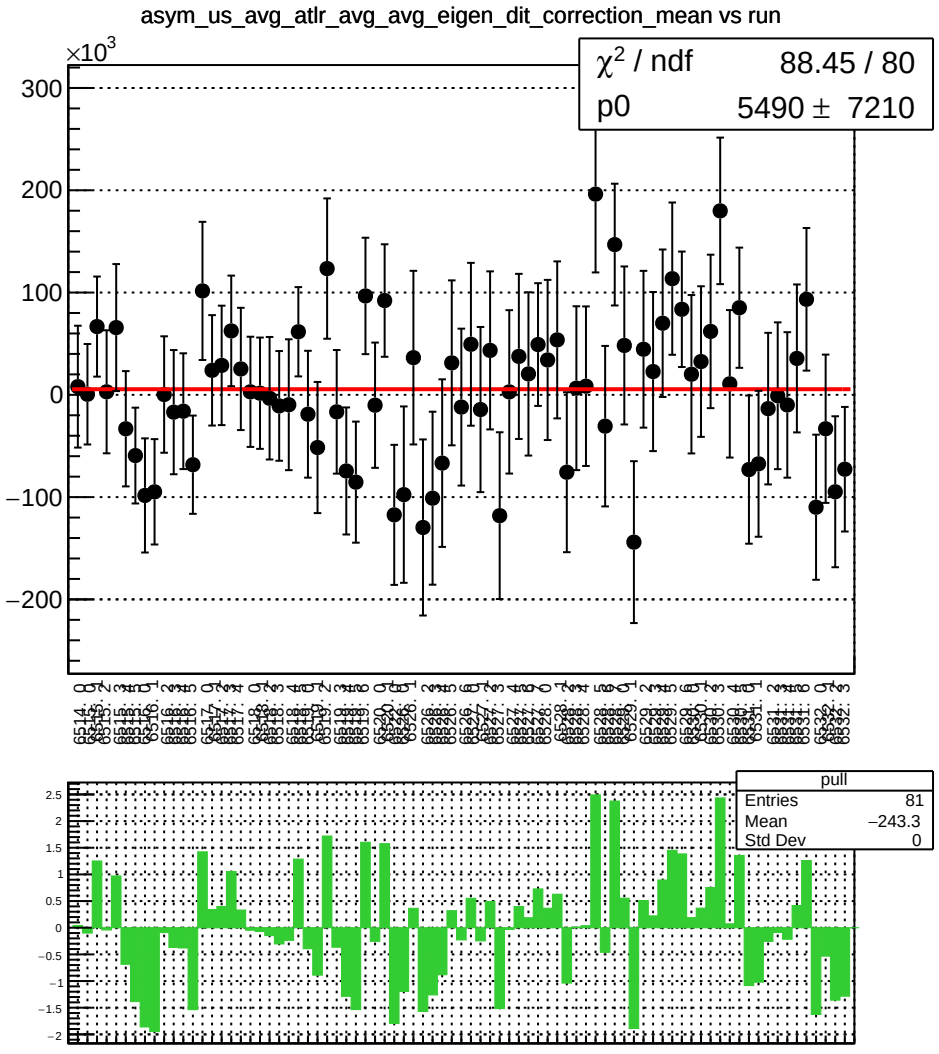

pull1D
Entries 81
Mean −0.008602
Std Dev 1.045

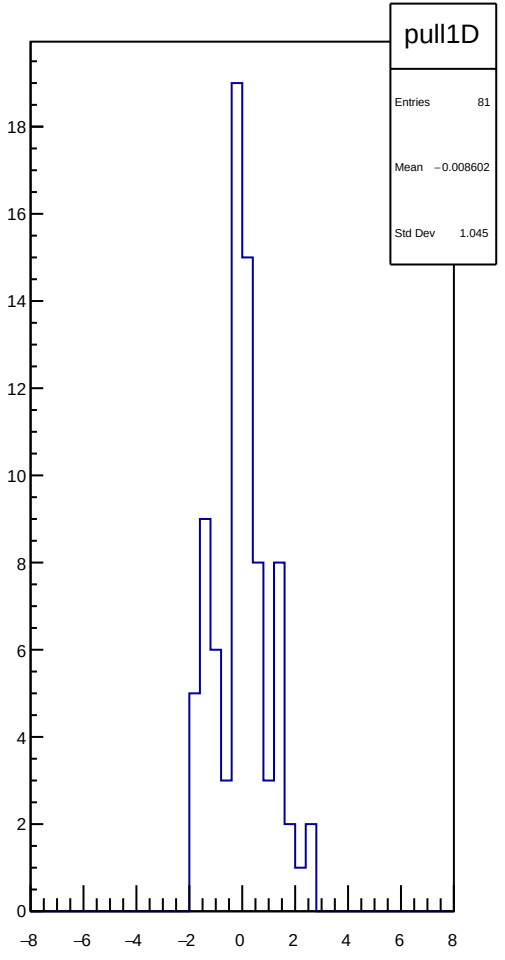

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ² / ndf 3.662e+04 / 80
p0 6294 ± 5.098
8500
8000
7500
7000
6500
6000
5500
5000
4500

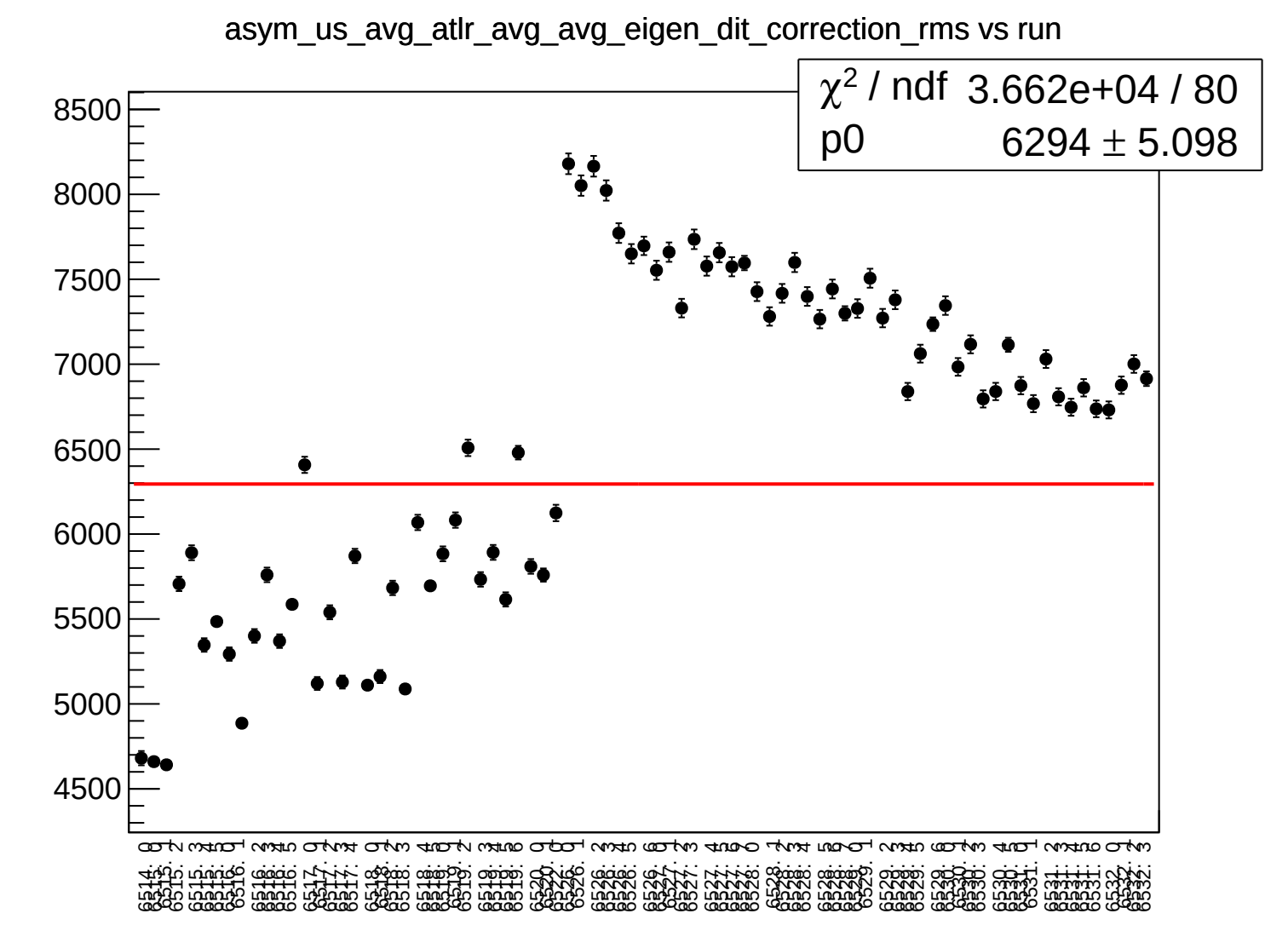

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 60.54 / 80
p0 3056 ± 2162
pull
Entries 81
Mean −381.5
Std Dev 0

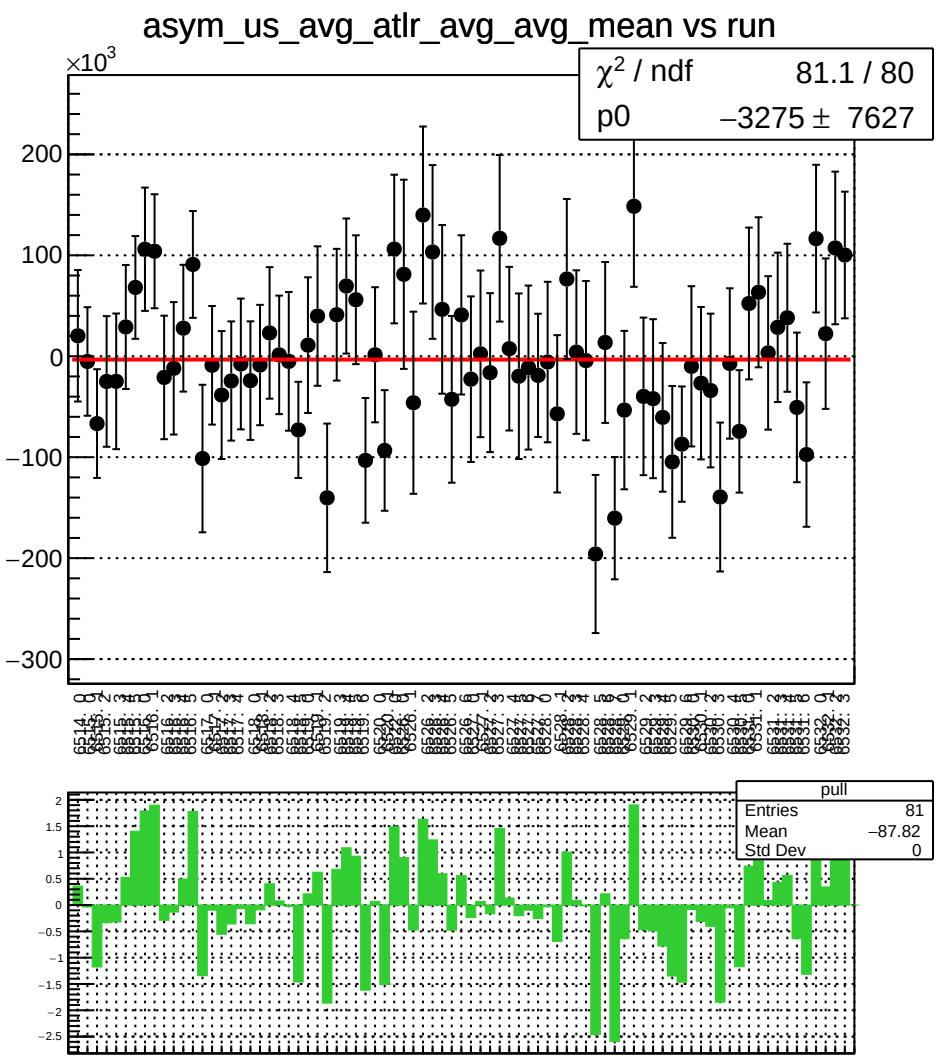

pull1D
Entries 81
Mean −0.005219
Std Dev 0.8645

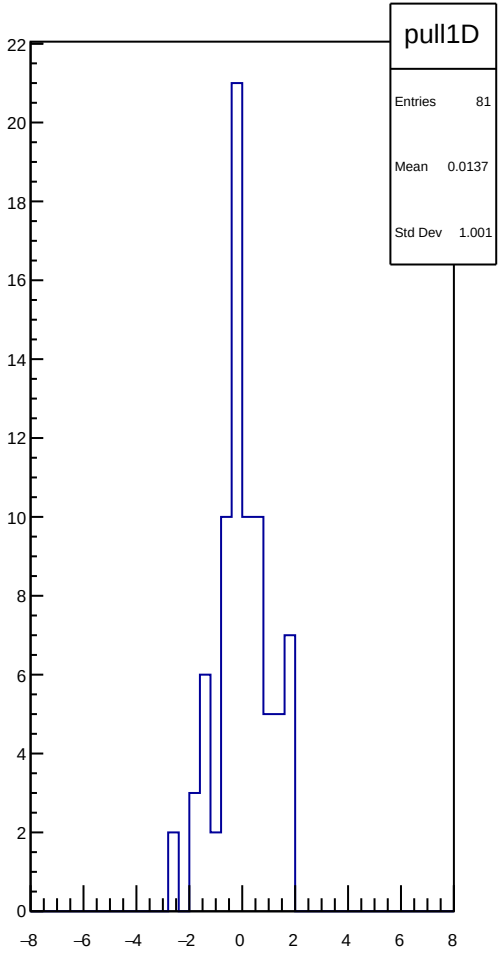

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 684.8 / 80
p0 1910 ± 1.529
2050
2000
1950
1900
1850

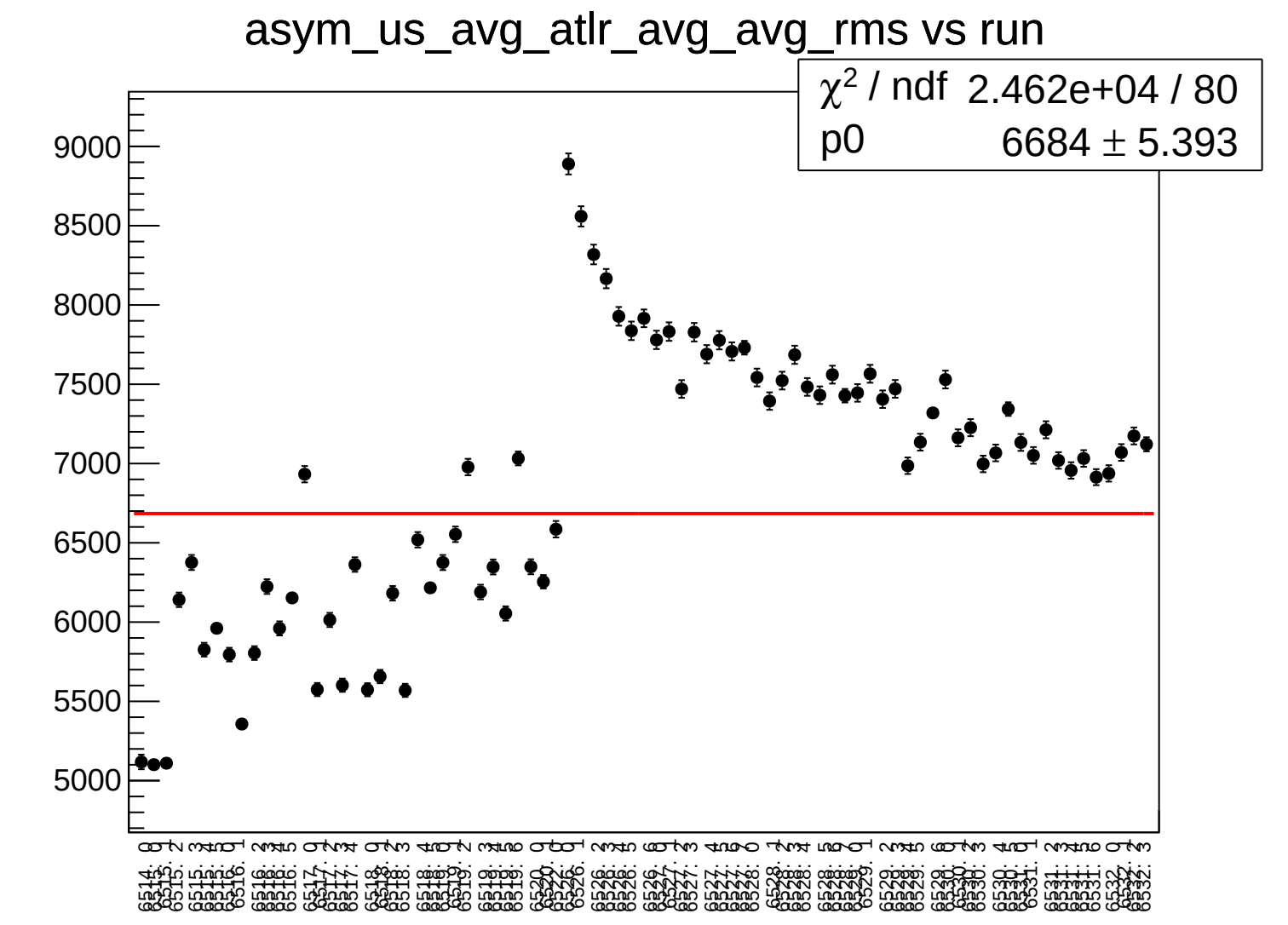

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 88.45 / 80
p0 5490 ± 7210
pull
Entries 81
Mean −243.3
Std Dev 0

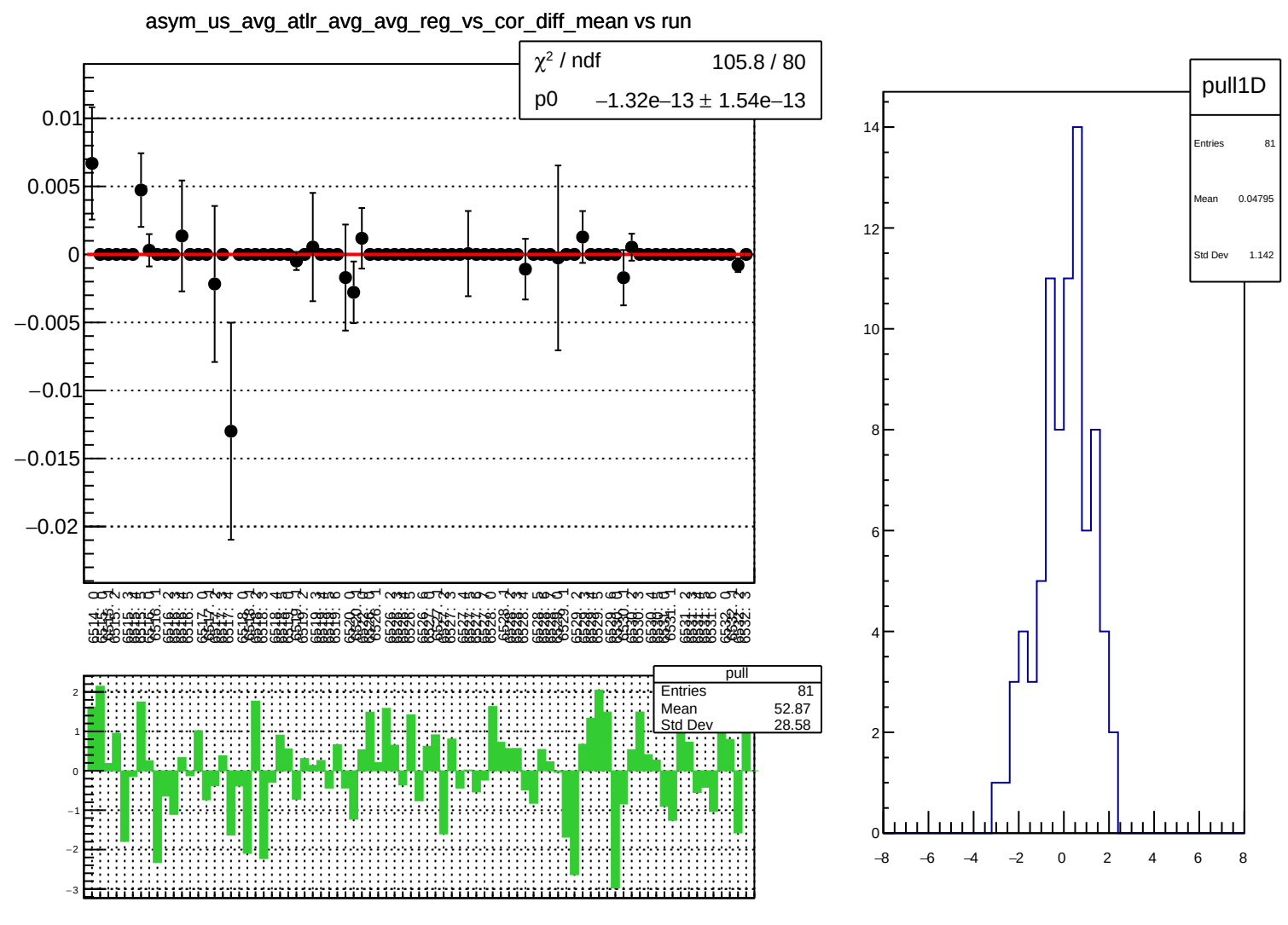

pull1D
Entries 81
Mean −0.008602
Std Dev 1.045

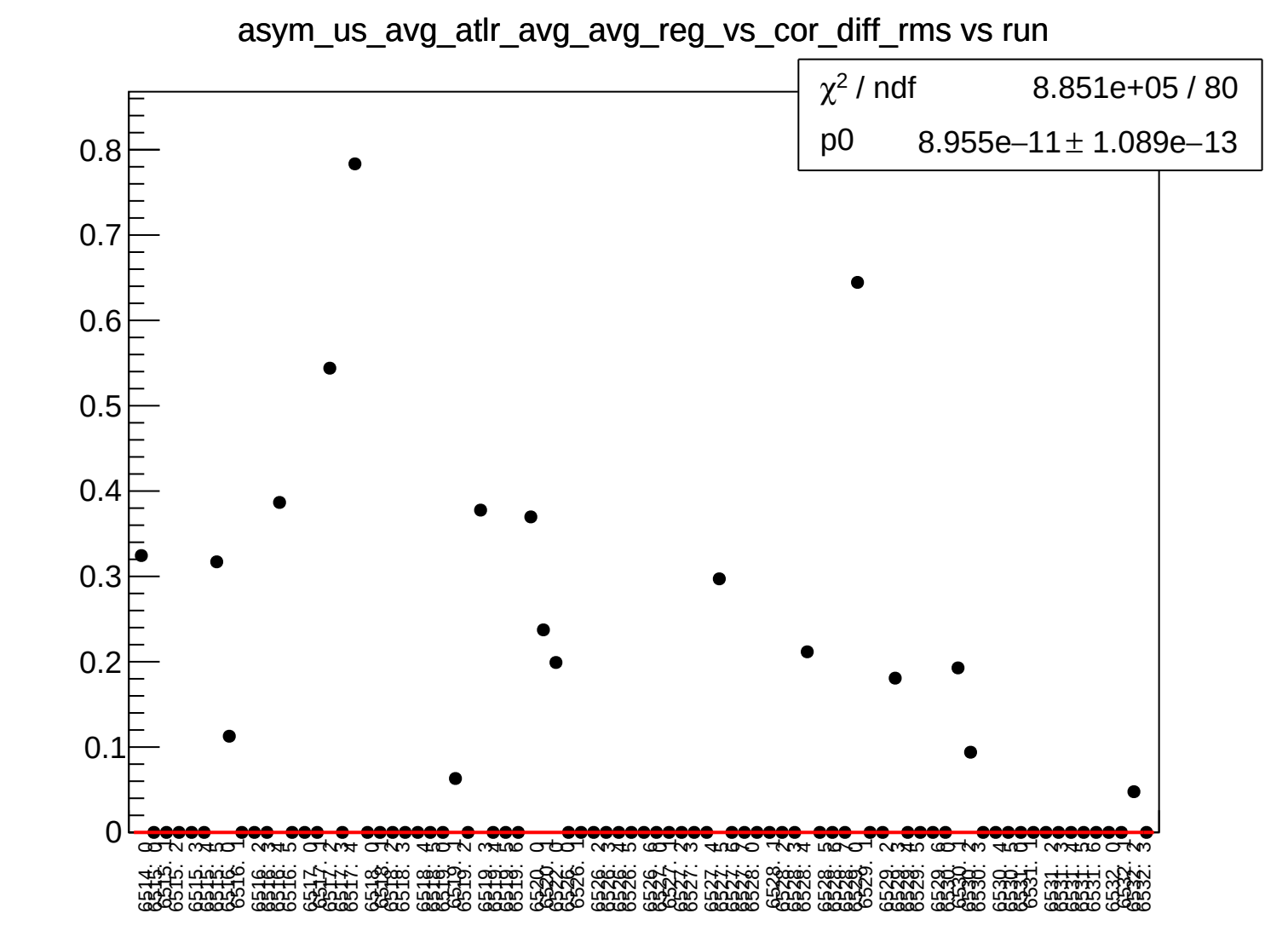

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.662e+04 / 80
p0 6294 ± 5.098
8500
8000
7500
7000
6500
6000
5500
5000
4500

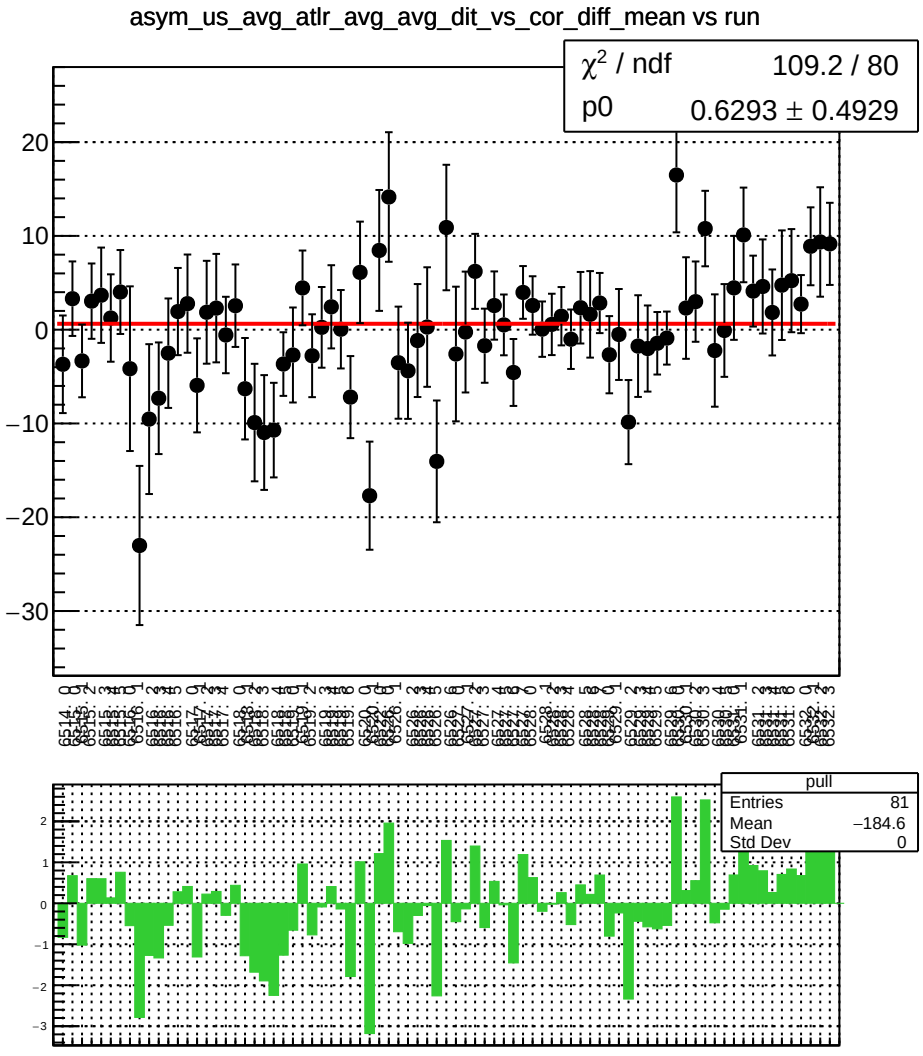

asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ² / ndf 81.1 / 80
p0 −3275 ± 7627
200
100
0
−100
−200
−300
pull
Entries 81
Mean −87.82
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

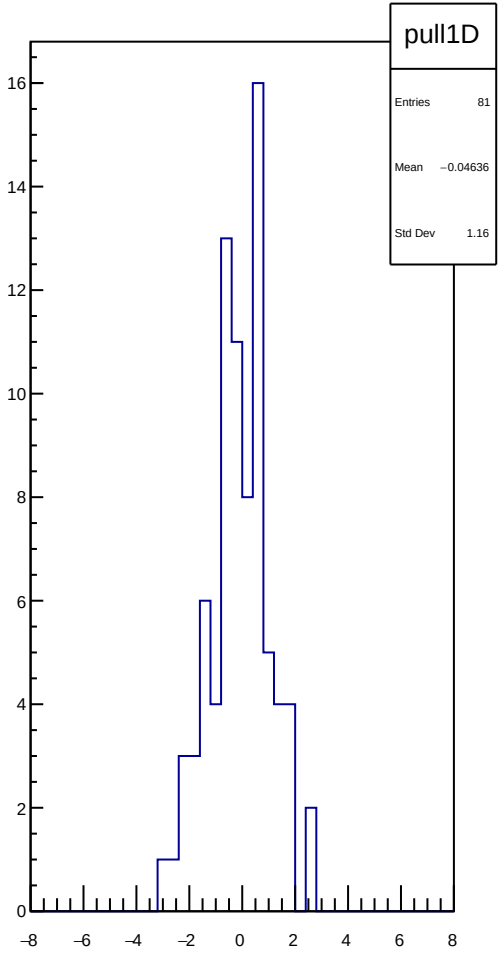

pull1D
Entries 81
Mean 0.0137
Std Dev 1.001
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

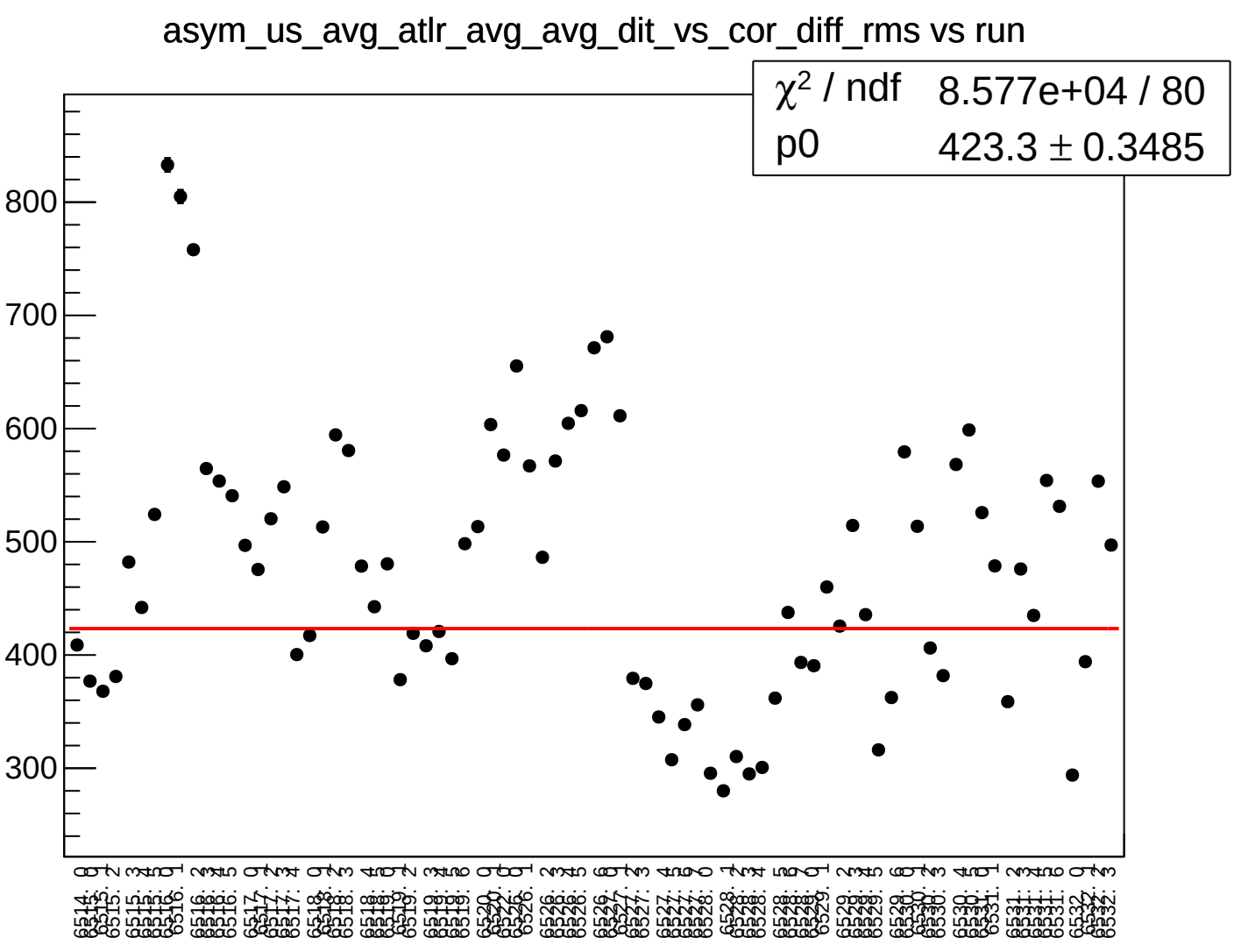

asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 2.462e+04 / 80
p0 6684 ± 5.393
9000
8500
8000
7500
7000
6500
6000
5500
5000

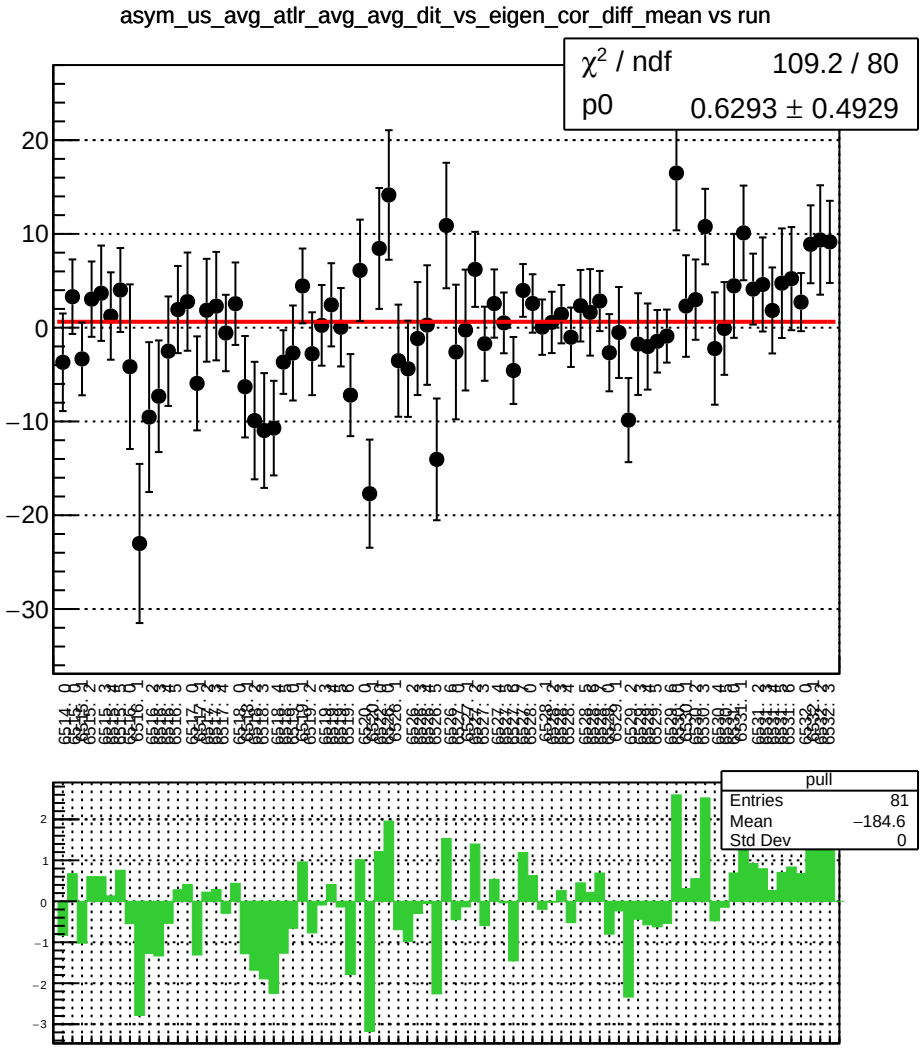

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 105.8 / 80
p0 −1.32e−13 ± 1.54e−13
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 81
Mean 52.87
Std Dev 28.58
2
1
0
−1
−2
−3
pull1D
Entries 81
Mean 0.04795
Std Dev 1.142
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

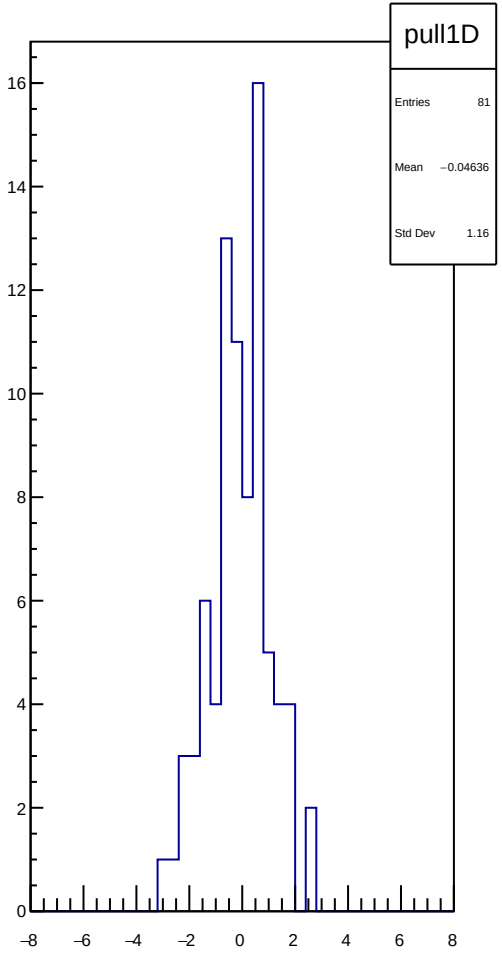

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.851e+05 / 80
p0 8.955e−11 ± 1.089e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

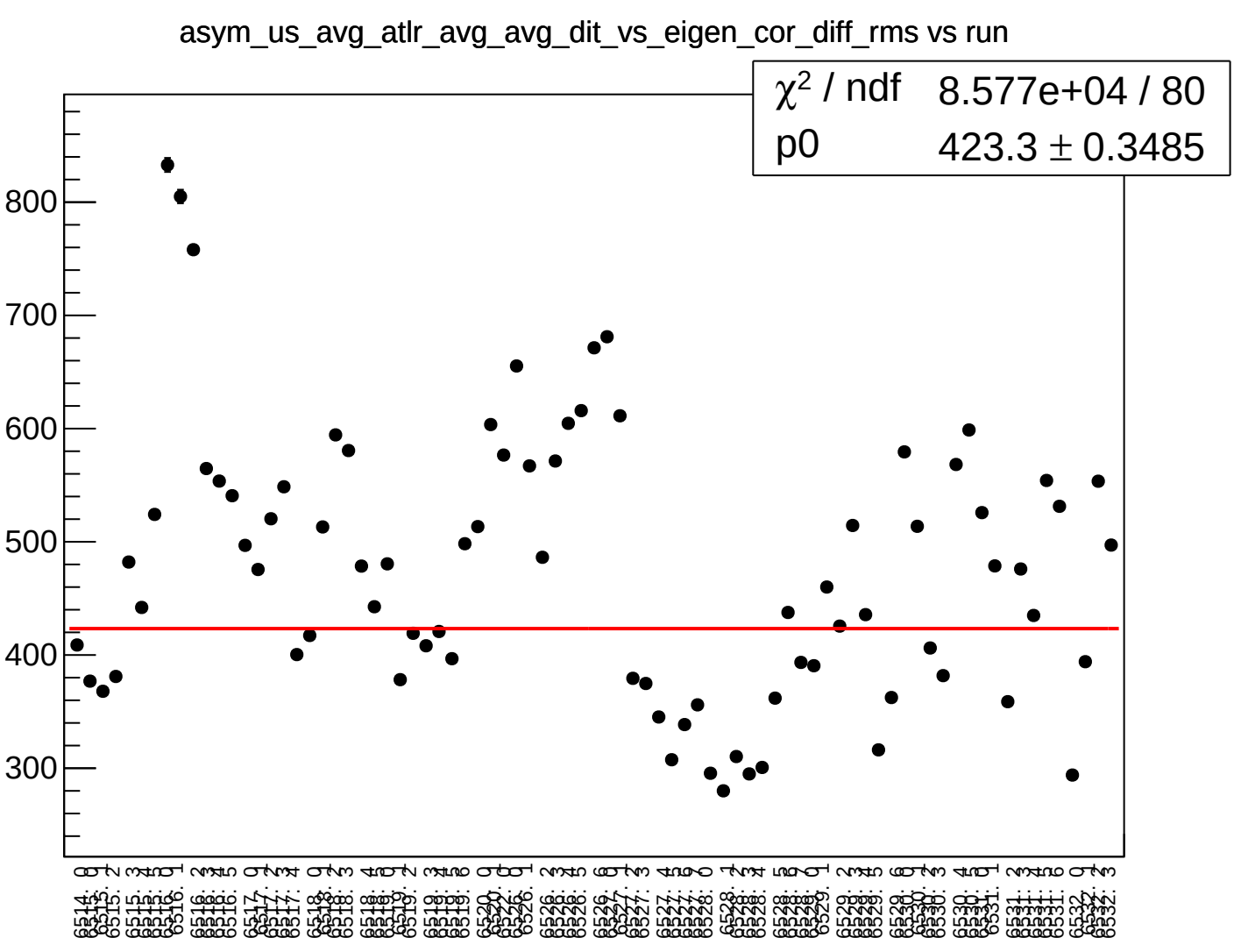

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 109.2 / 80
p0 0.6293 ± 0.4929
pull
Entries 81
Mean −184.6
Std Dev 0

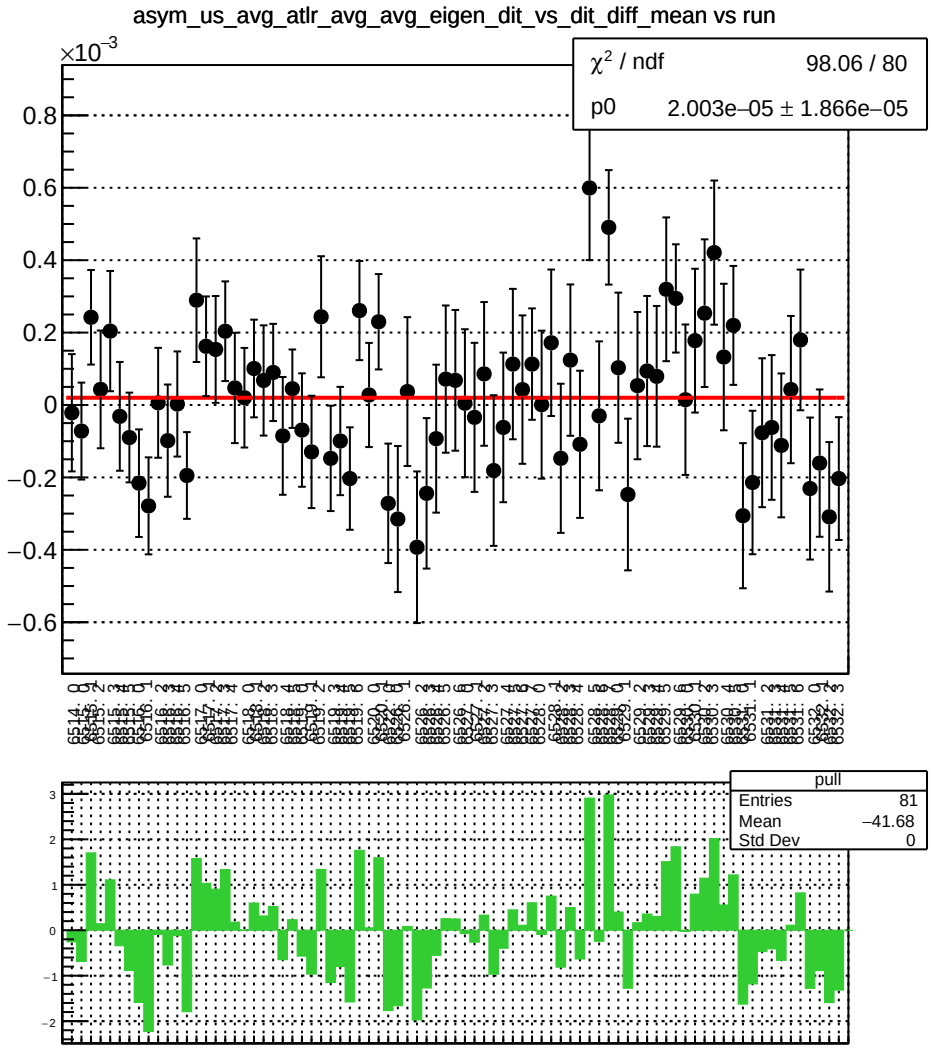

pull1D
Entries 81
Mean −0.04636
Std Dev 1.16

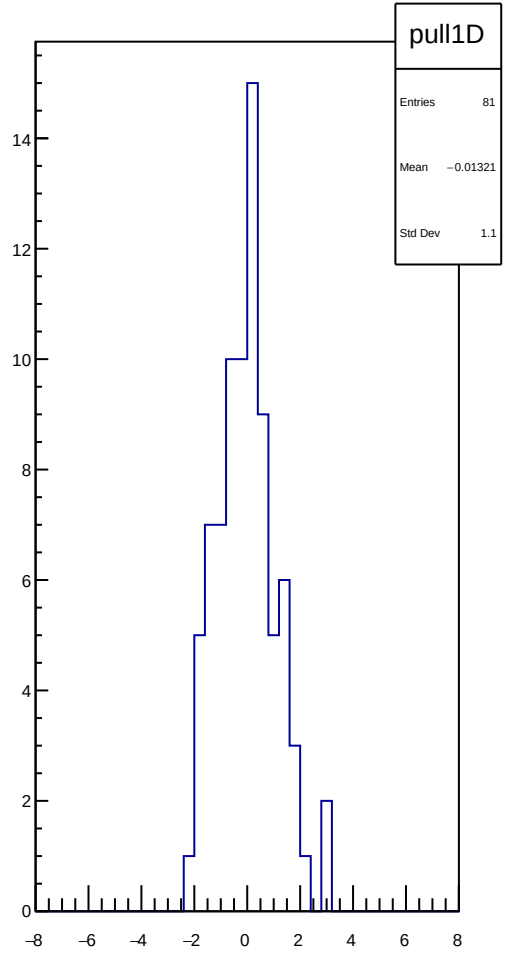

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.577e+04 / 80
p0 423.3 ± 0.3485
800
700
600
500
400
300

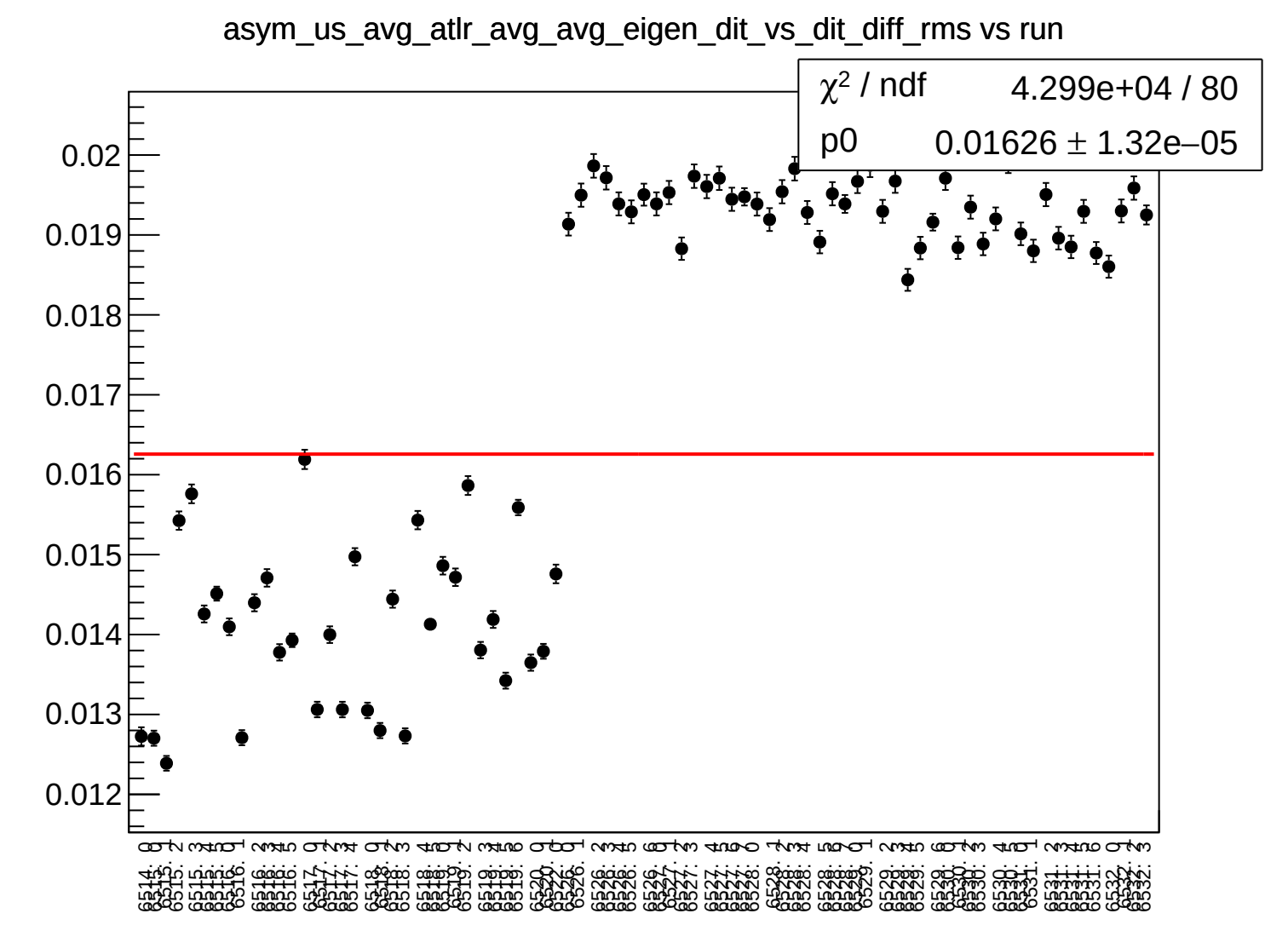

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.2 / 80
p0 0.6293 ± 0.4929
pull
Entries 81
Mean −184.6
Std Dev 0

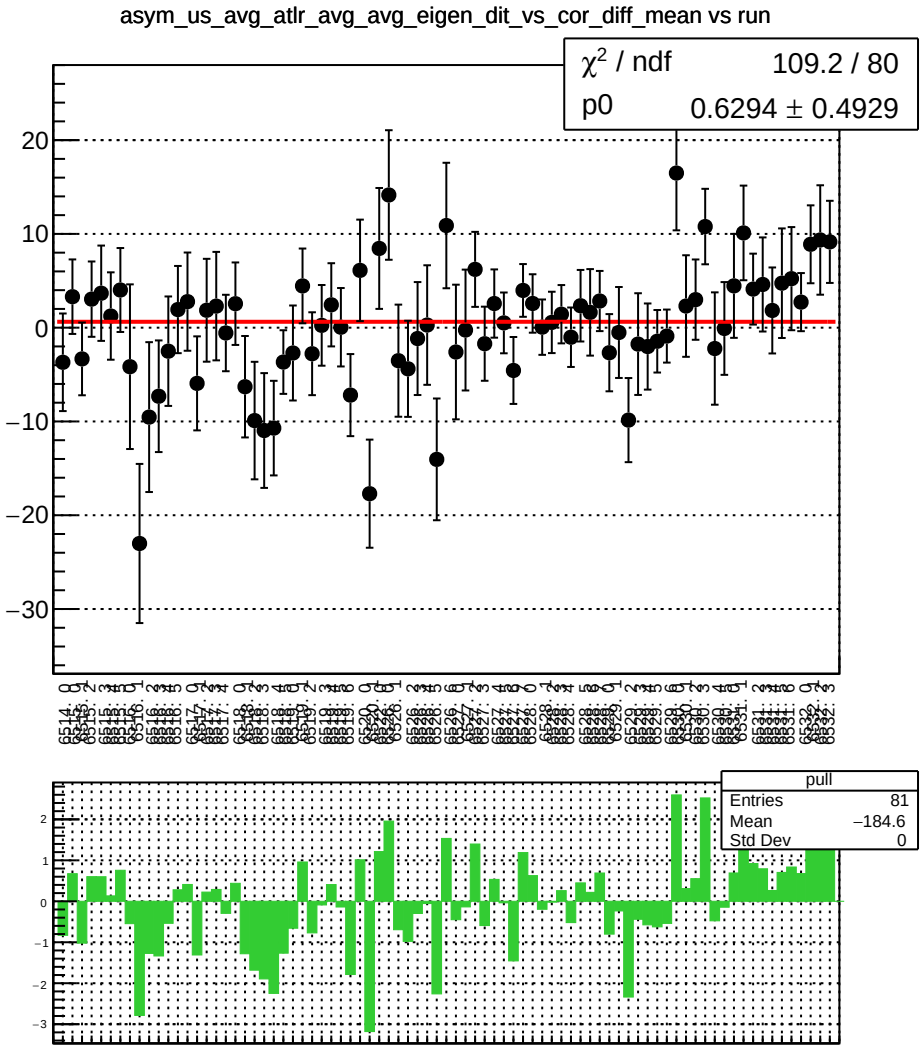

pull1D
Entries 81
Mean −0.04636
Std Dev 1.16

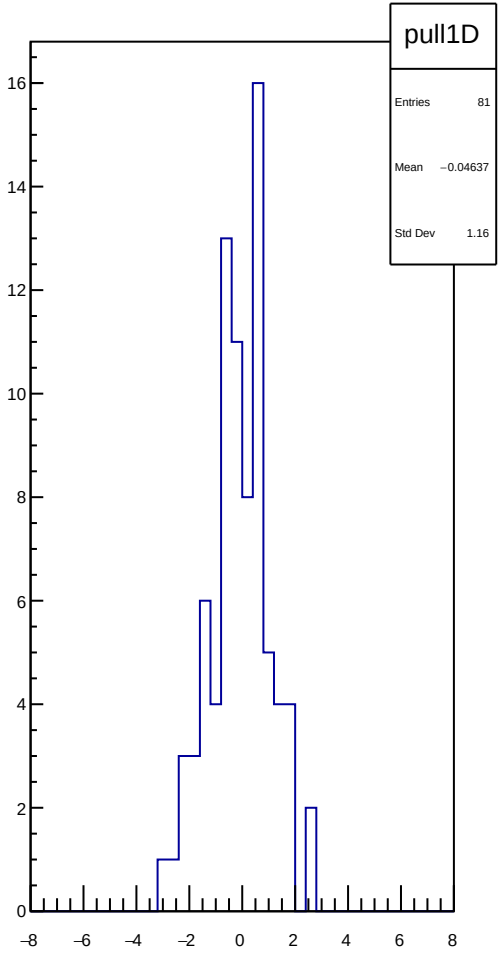

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.577e+04 / 80
p0 423.3 ± 0.3485
800
700
600
500
400
300

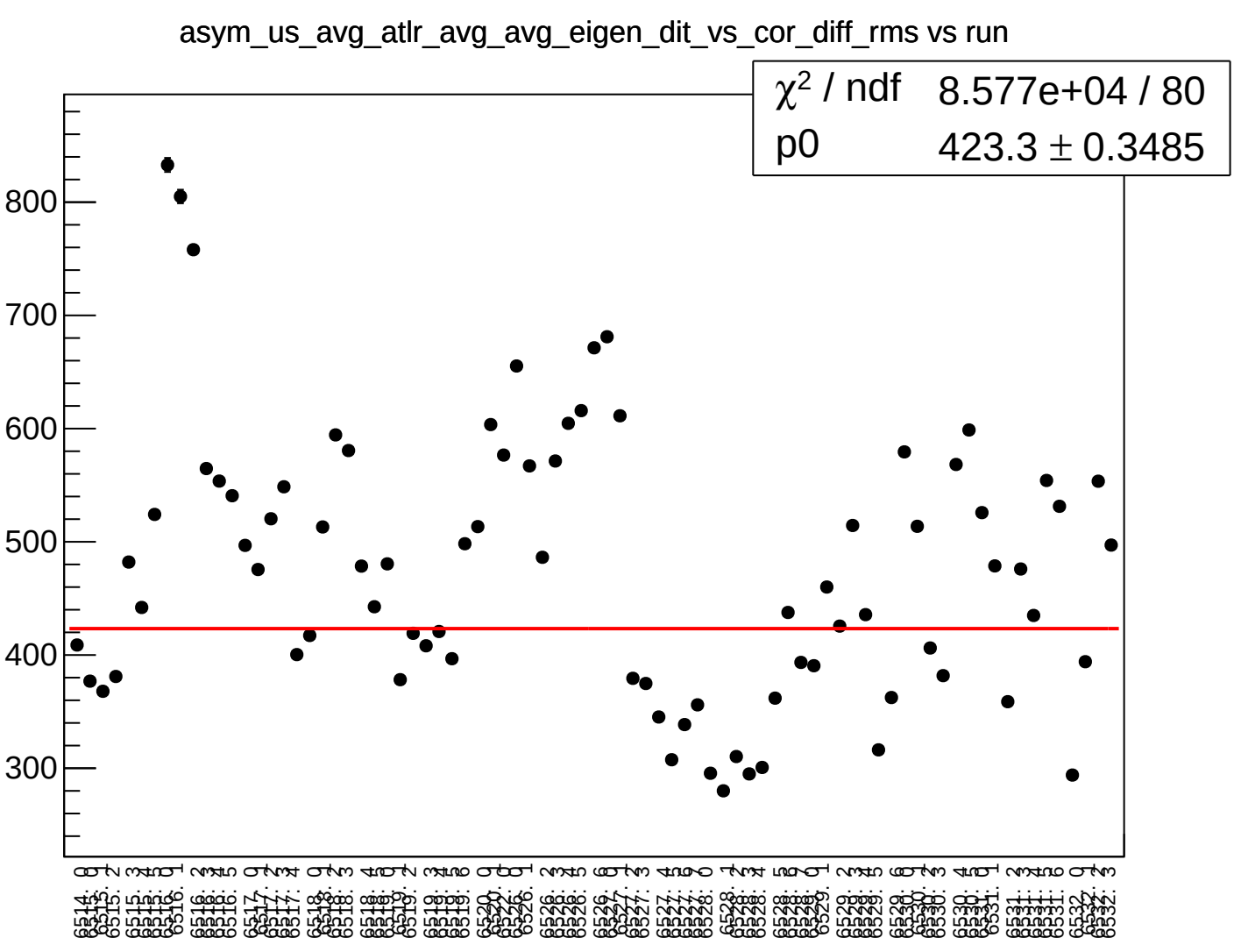

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.06 / 80
p0 2.003e−05 ± 1.866e−05
pull
Entries 81
Mean −41.68
Std Dev 0

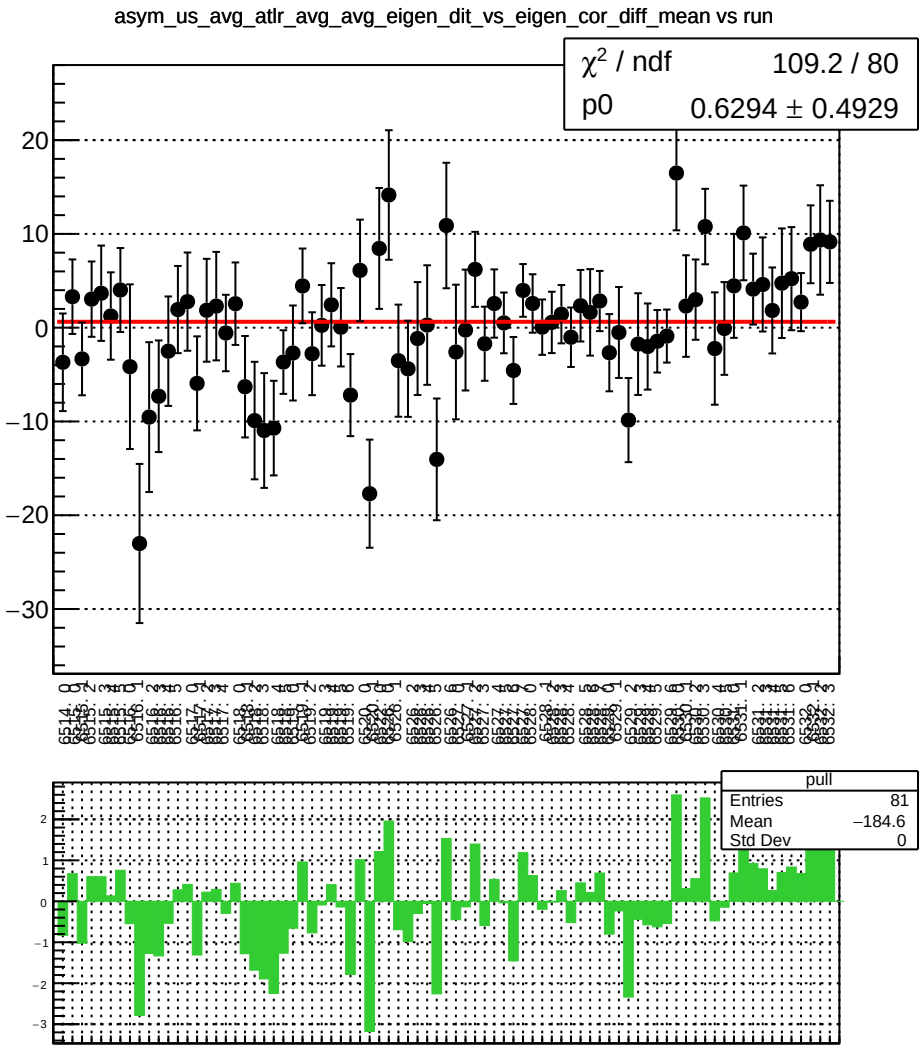

pull1D
Entries 81
Mean −0.01321
Std Dev 1.1

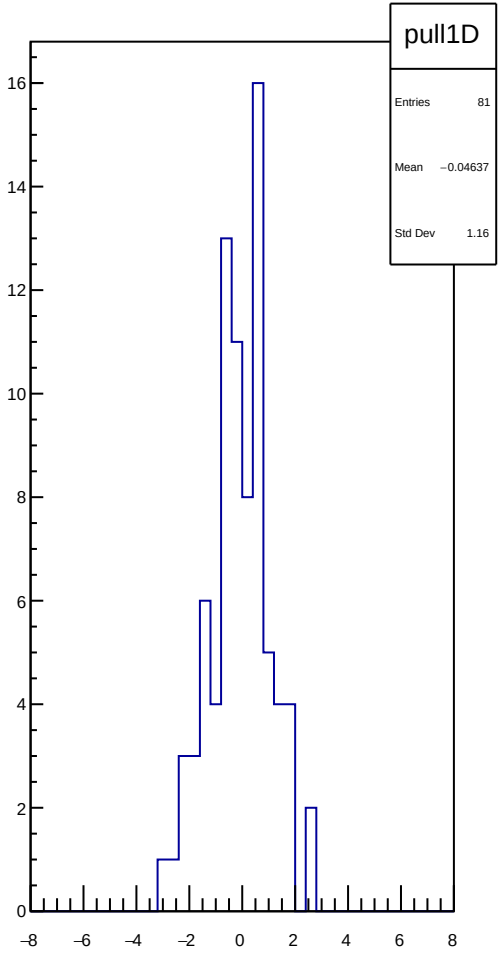

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.299e+04 / 80
p0 0.01626 ± 1.32e−05
0.02
0.019
0.018
0.017
0.016
0.015
0.014
0.013
0.012

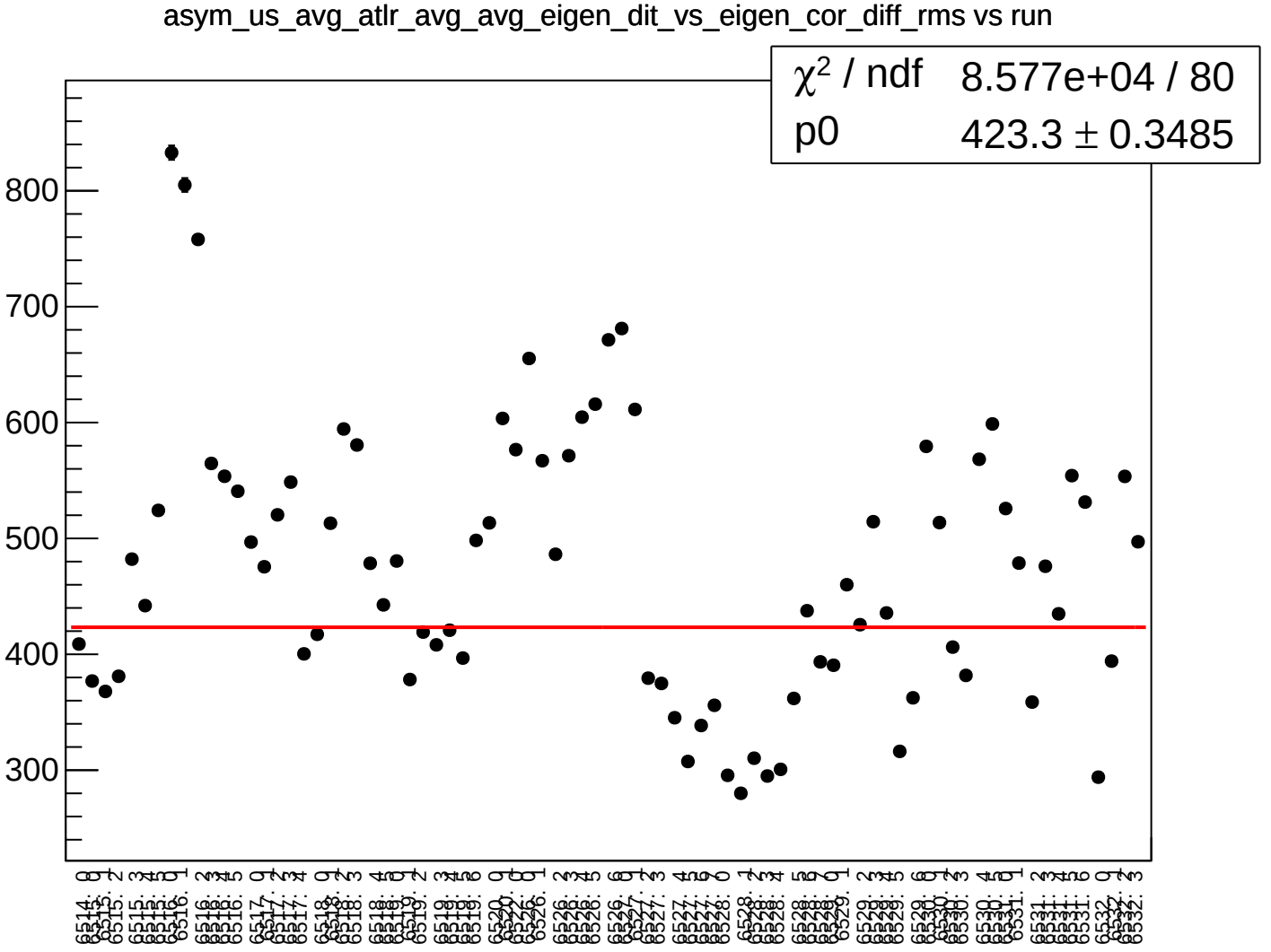

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 109.2 / 80
p0 0.6294 ± 0.4929
pull
Entries 81
Mean −184.6
Std Dev 0

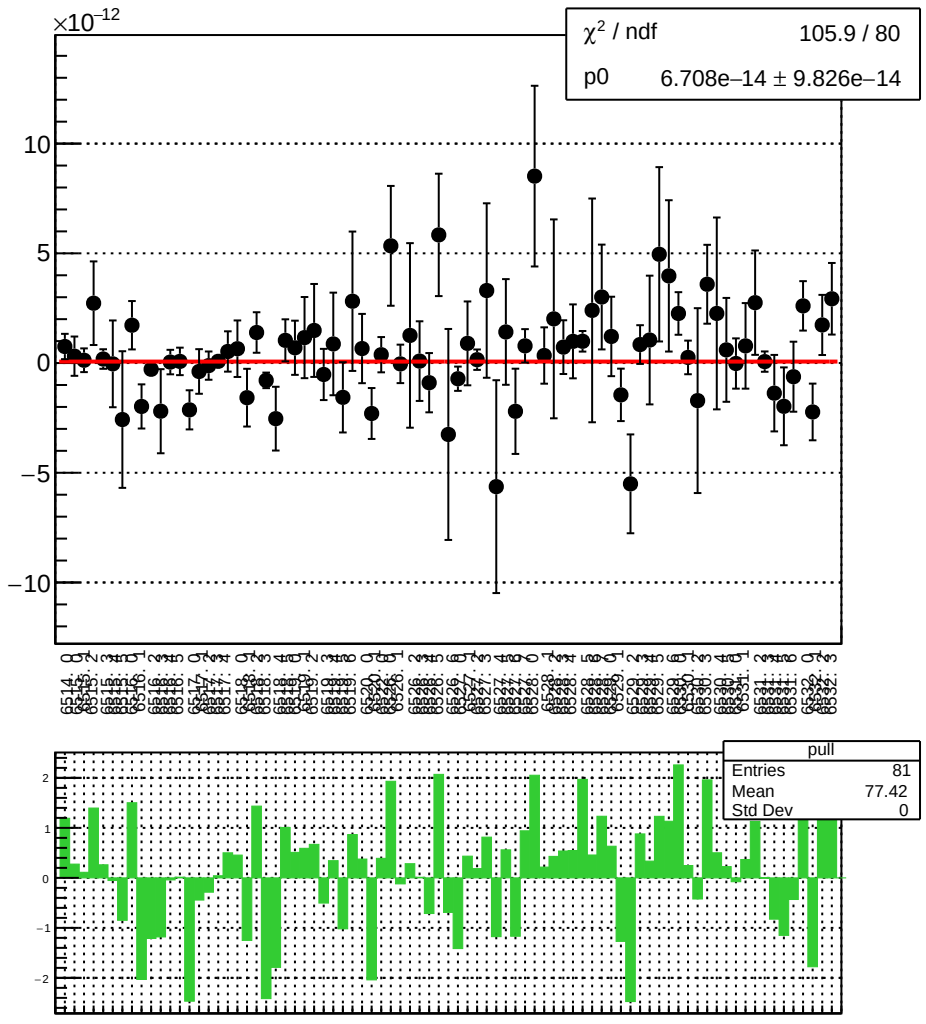

pull1D
Entries 81
Mean −0.04637
Std Dev 1.16

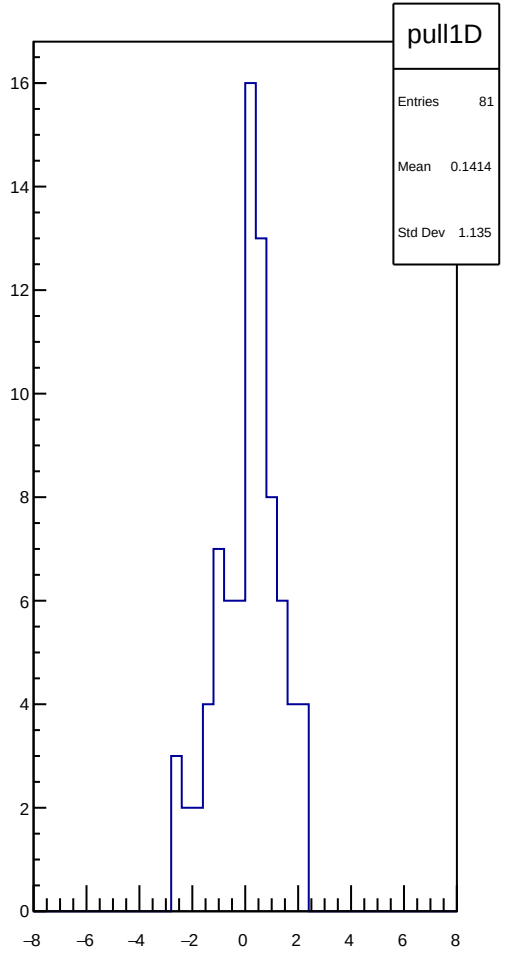

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.577e+04 / 80
p0 423.3 ± 0.3485
800
700
600
500
400
300

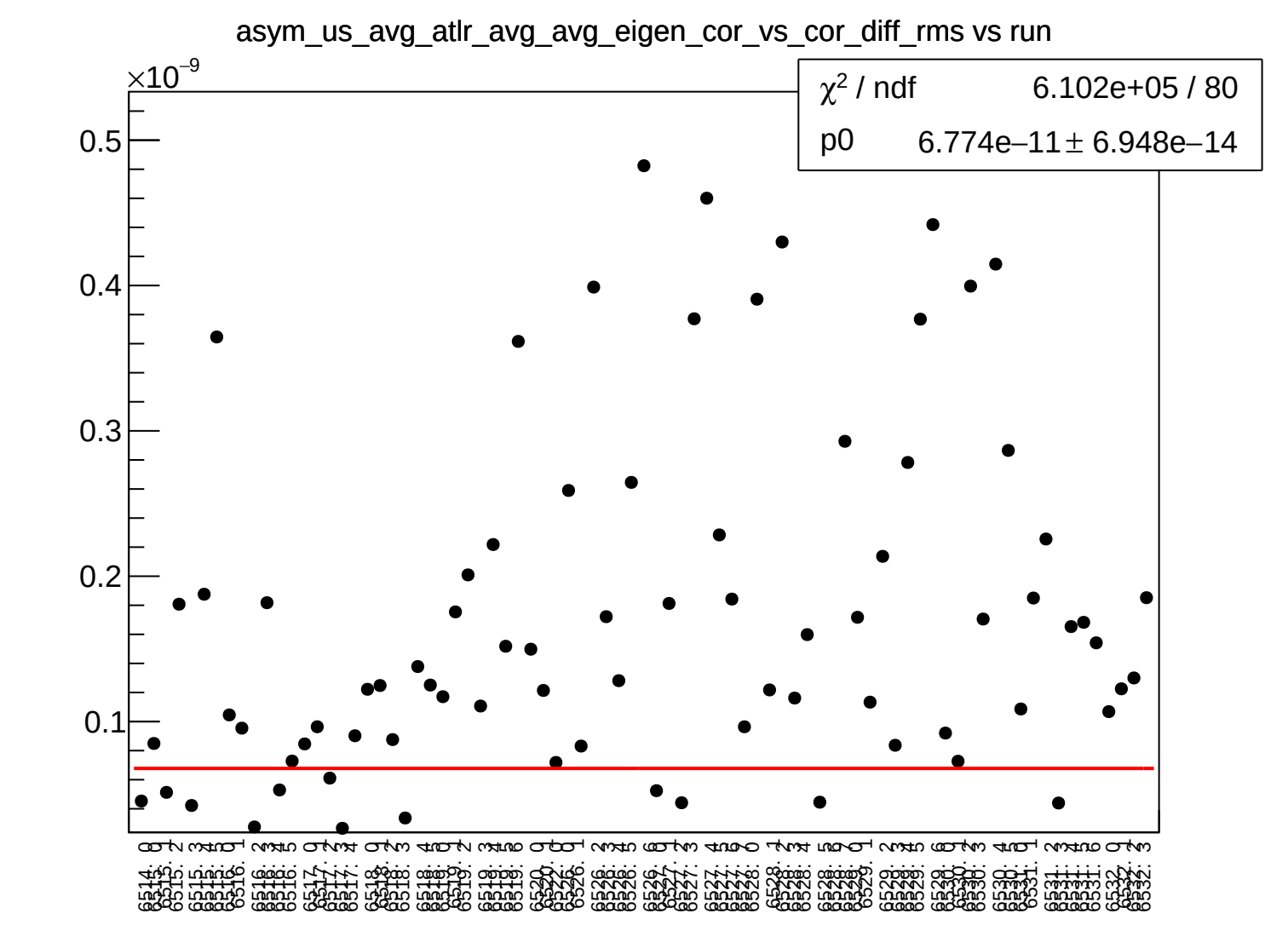

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.2 / 80
p0 0.6294 ± 0.4929
pull
Entries 81
Mean −184.6
Std Dev 0

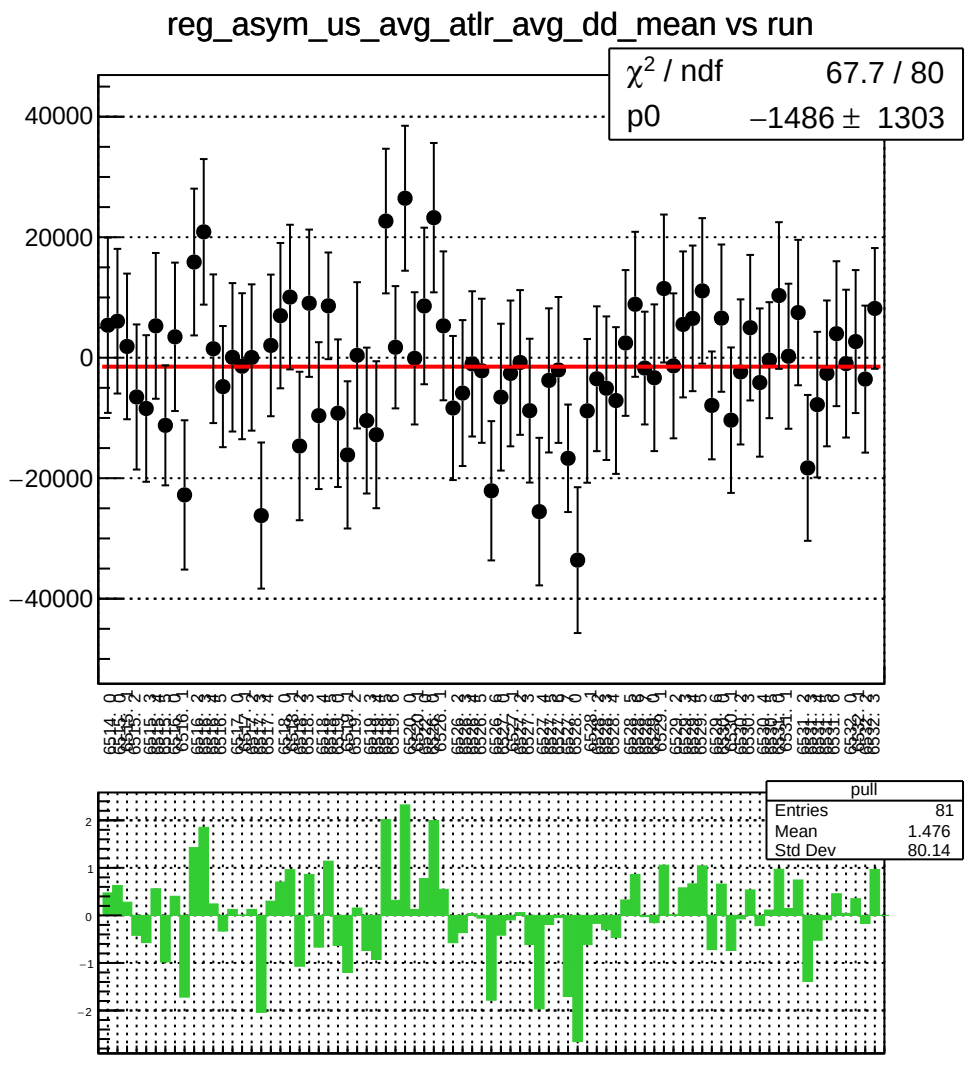

pull1D
Entries 81
Mean −0.04637
Std Dev 1.16

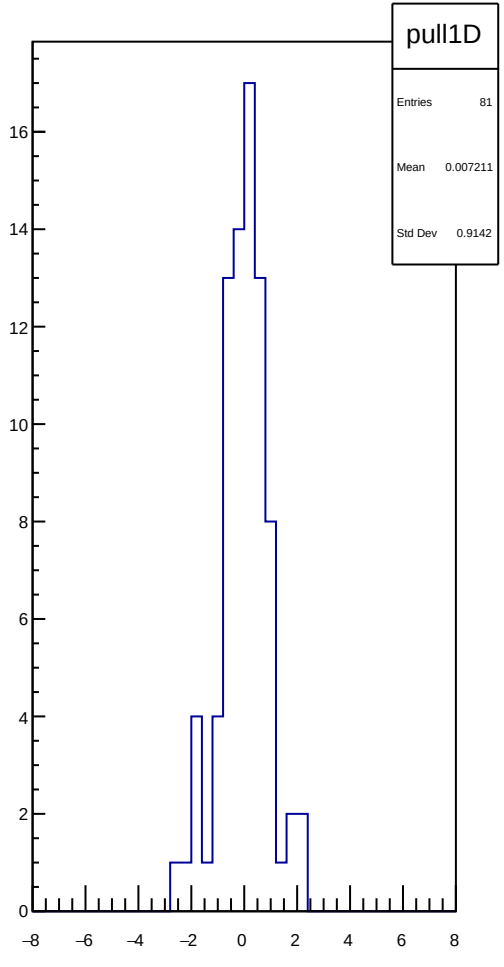

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.577e+04 / 80
p0 423.3 ± 0.3485
800
700
600
500
400
300

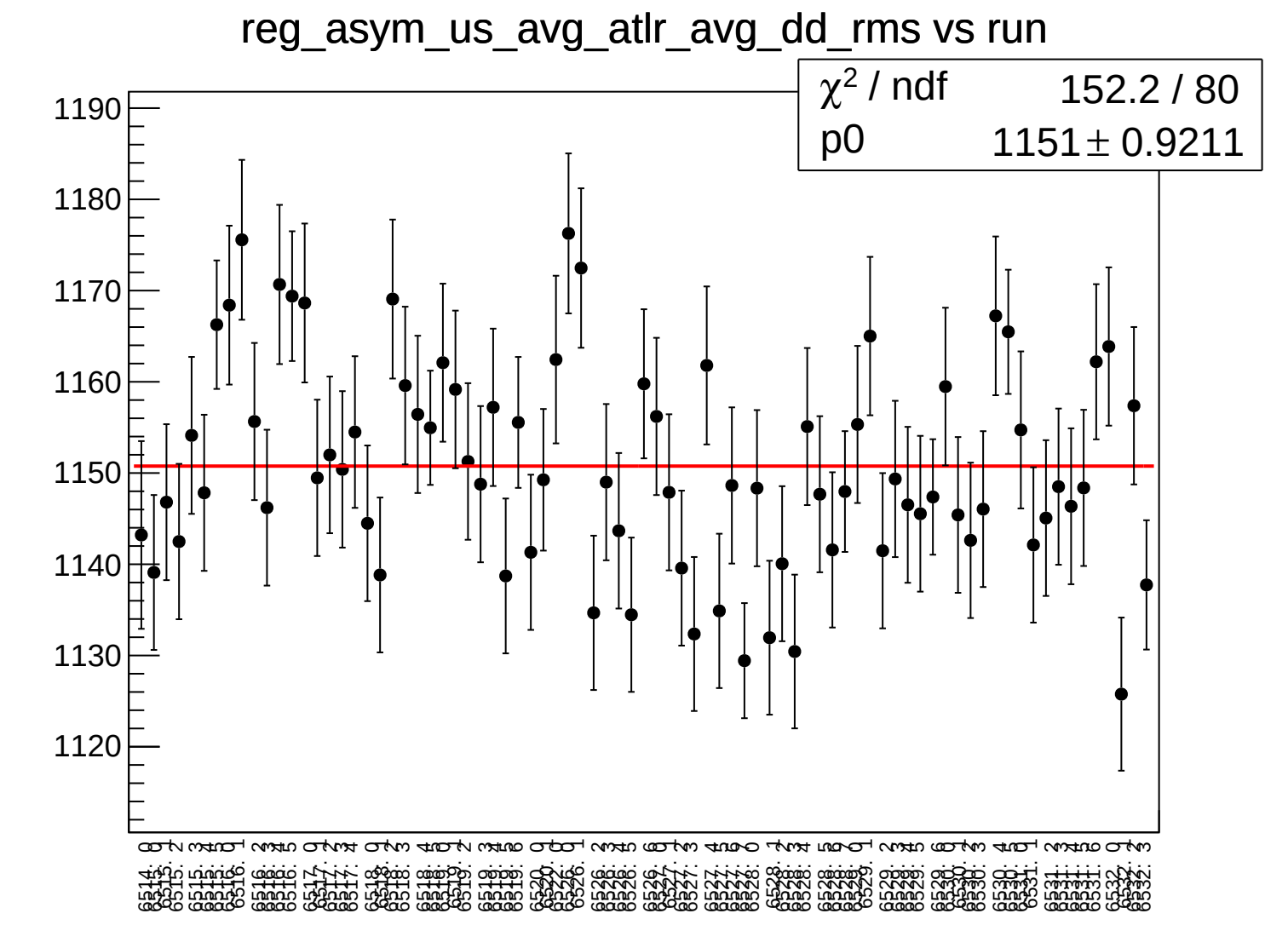

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 105.9 / 80
p0 6.708e−14 ± 9.826e−14
pull
Entries 81
Mean 77.42
Std Dev 0

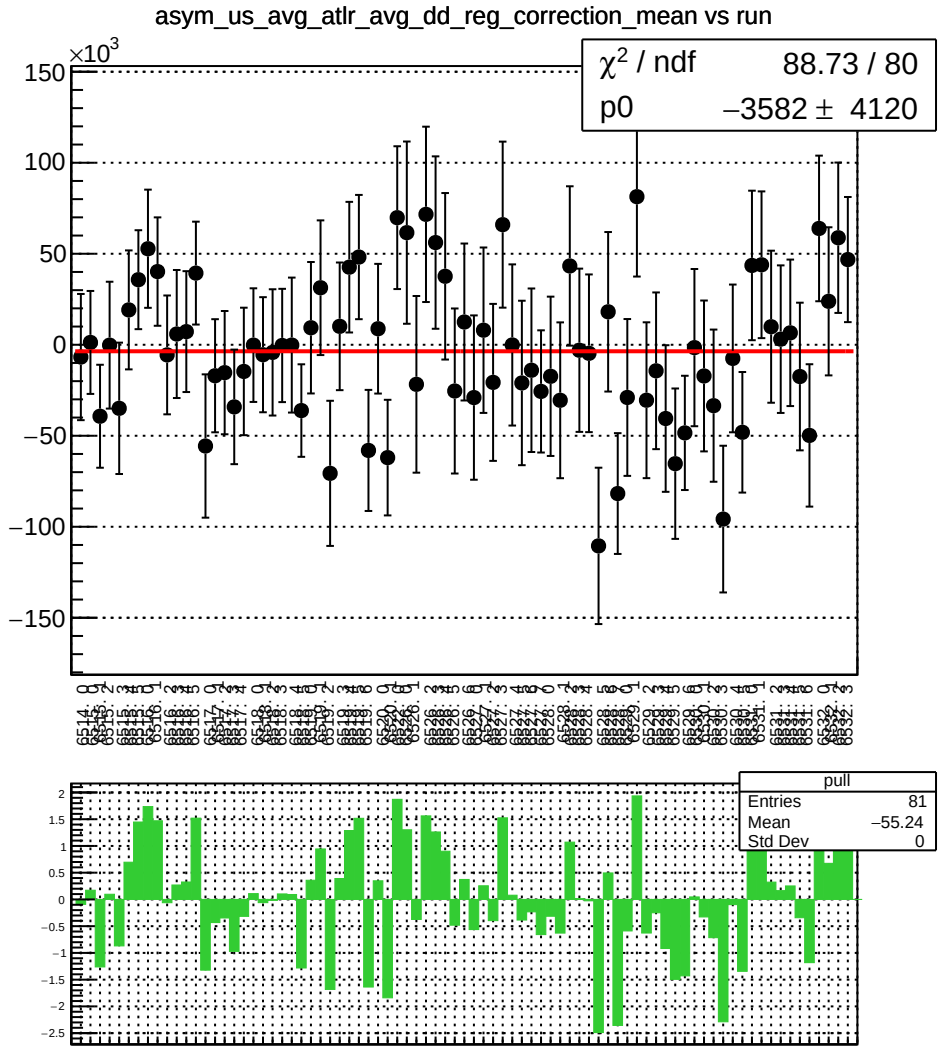

pull1D
Entries 81
Mean 0.1414
Std Dev 1.135

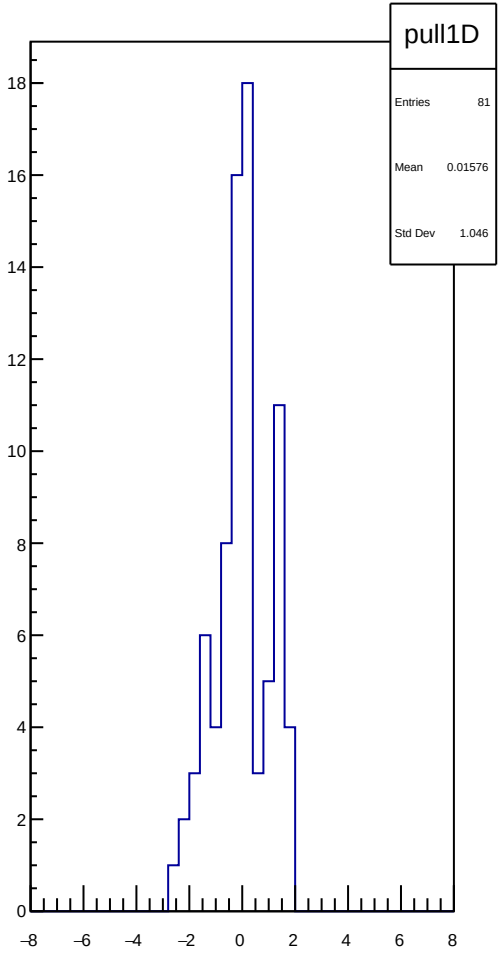

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.102e+05 / 80
p0 6.774e−11 ± 6.948e−14
0.5
0.4
0.3
0.2
0.1

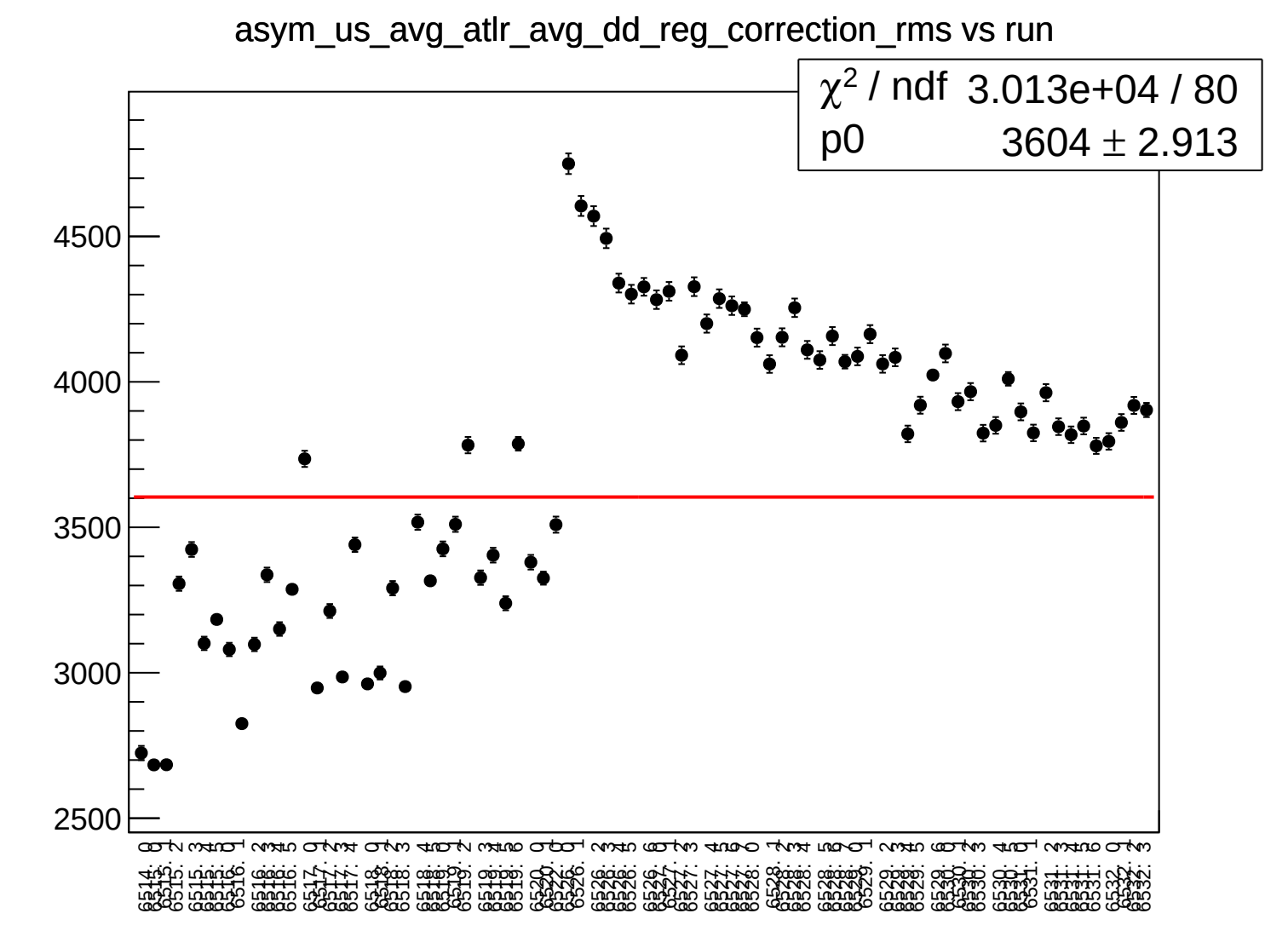

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 67.7 / 80
p0 −1486 ± 1303
40000
20000
0
−20000
−40000
pull
Entries 81
Mean 1.476
Std Dev 80.14
2
1
0
−1
−2

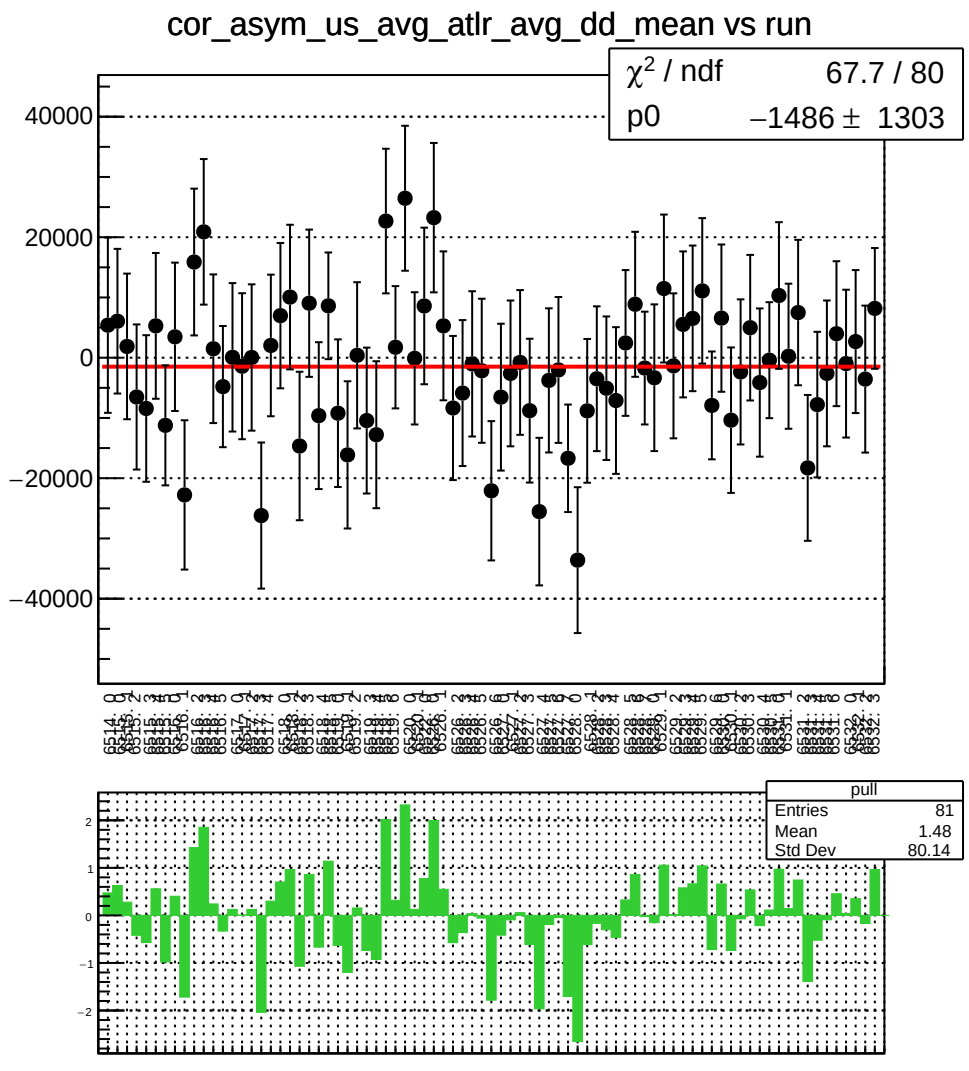

pull1D
Entries 81
Mean 0.007211
Std Dev 0.9142
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

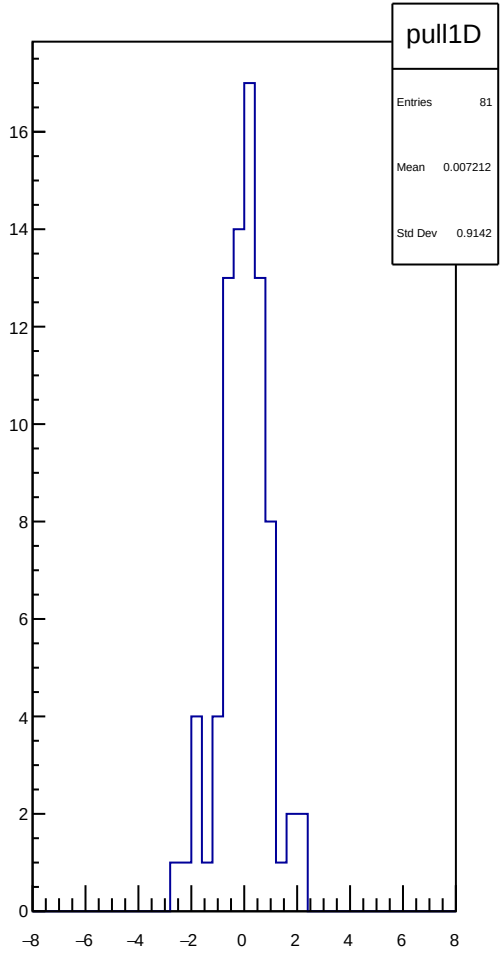

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 152.2 / 80
p0 1151 ± 0.9211
1190
1180
1170
1160
1150
1140
1130
1120

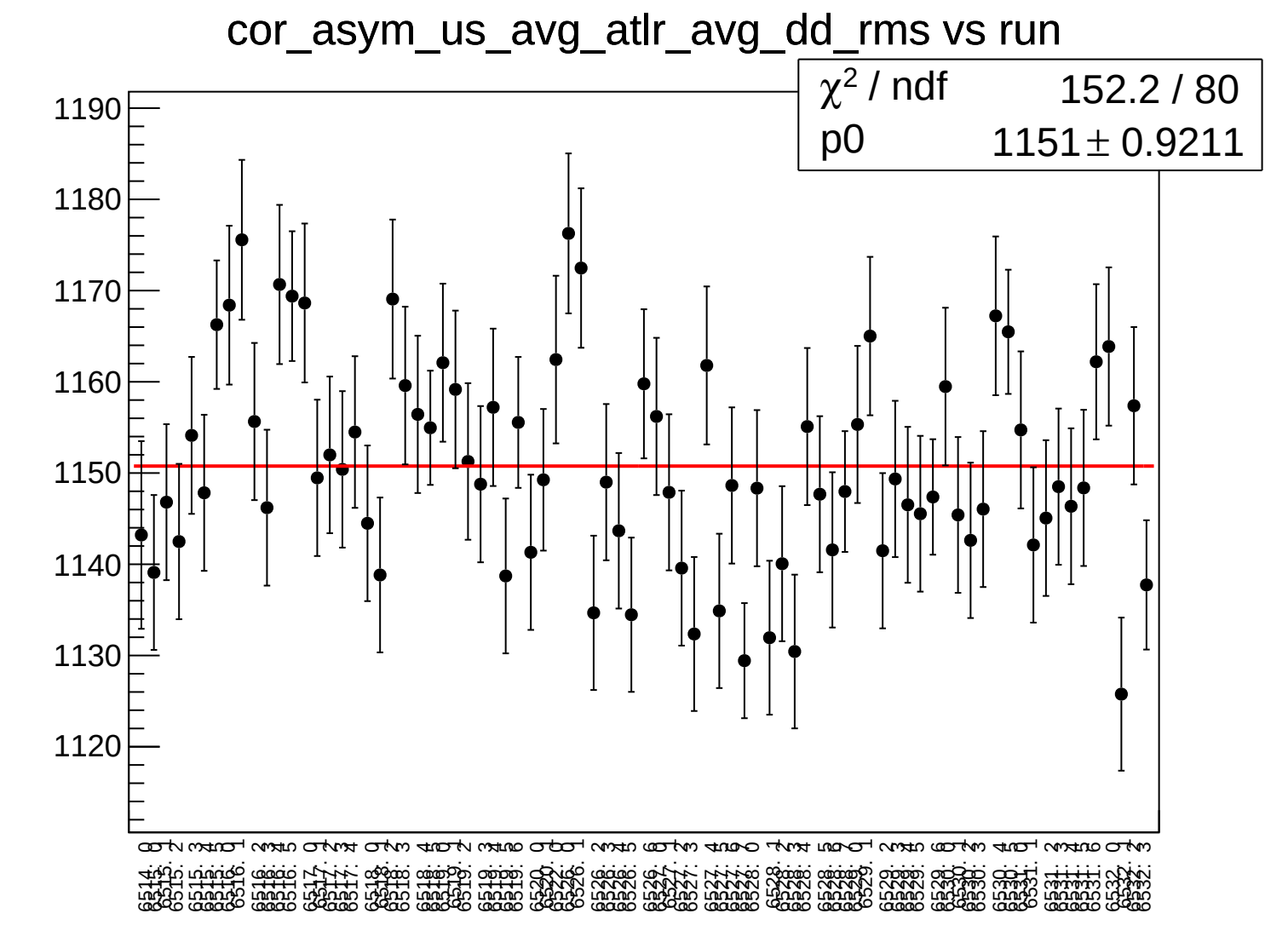

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 88.73 / 80
p0 −3582 ± 4120
pull
Entries 81
Mean −55.24
Std Dev 0

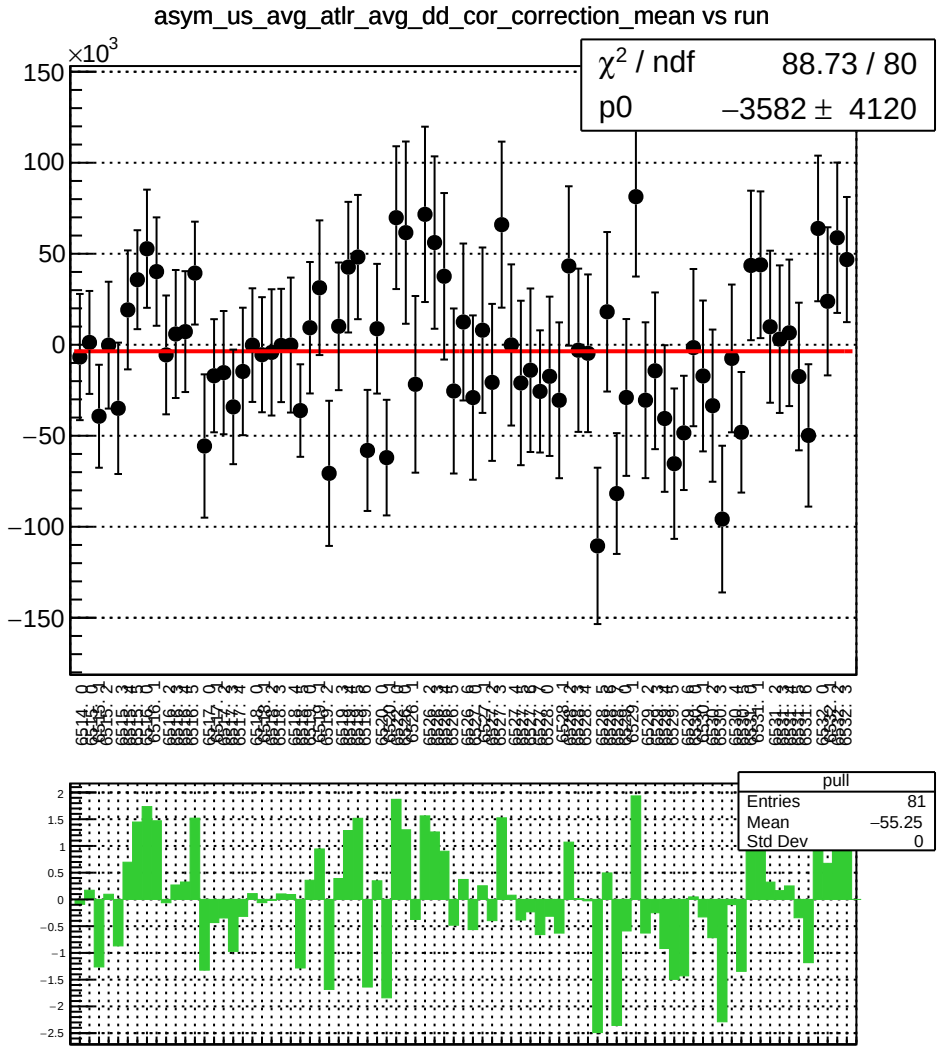

pull1D
Entries 81
Mean 0.01576
Std Dev 1.046

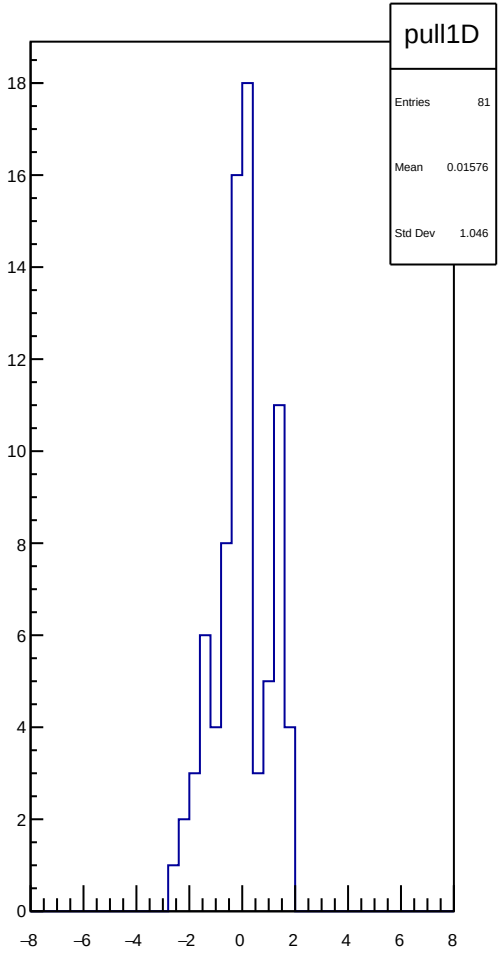

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 3.013e+04 / 80
p0 3604 ± 2.913
4500
4000
3500
3000
2500

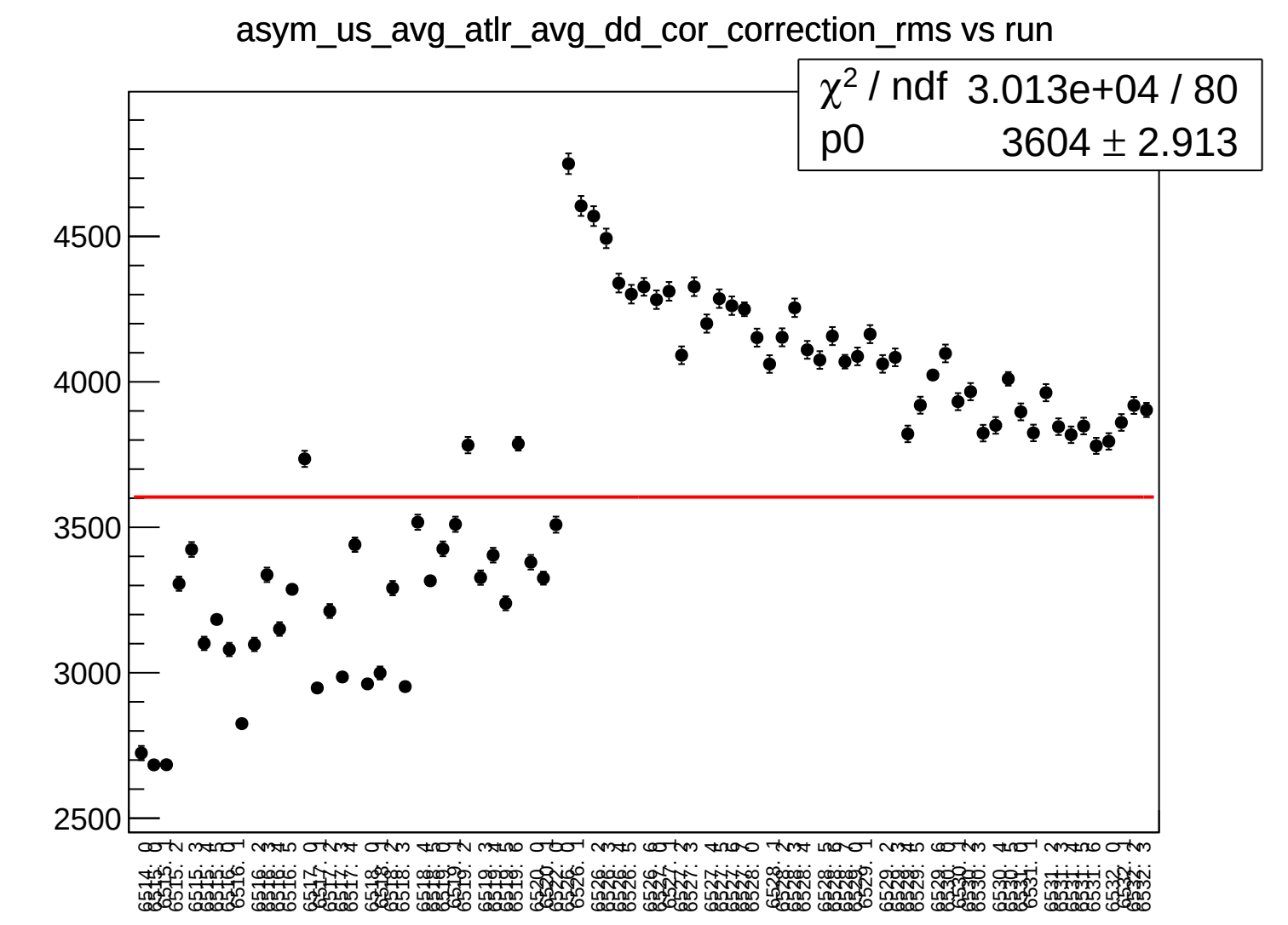

cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 67.7 / 80
p0 −1486 ± 1303
40000
20000
0
−20000
−40000
pull
Entries 81
Mean 1.48
Std Dev 80.14
2
1
0
−1
−2

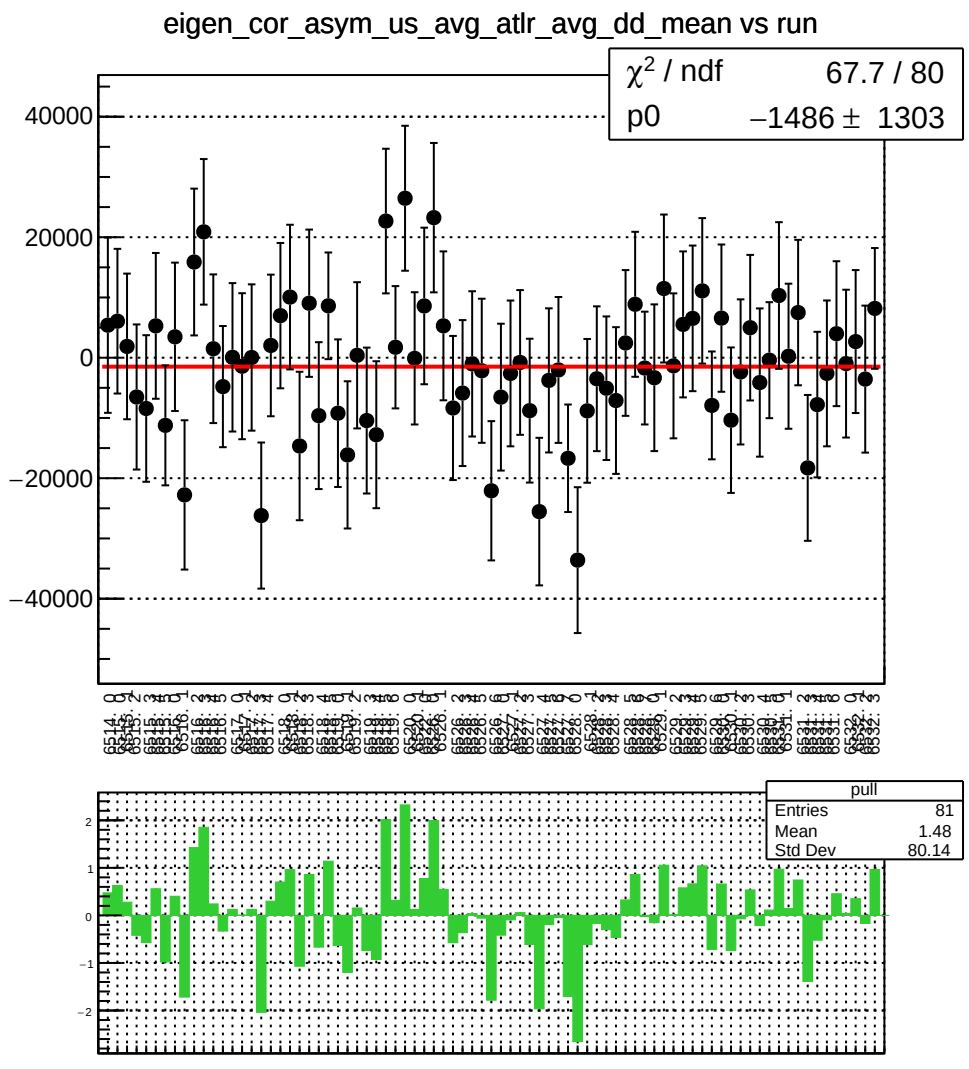

pull1D
Entries 81
Mean 0.007212
Std Dev 0.9142
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

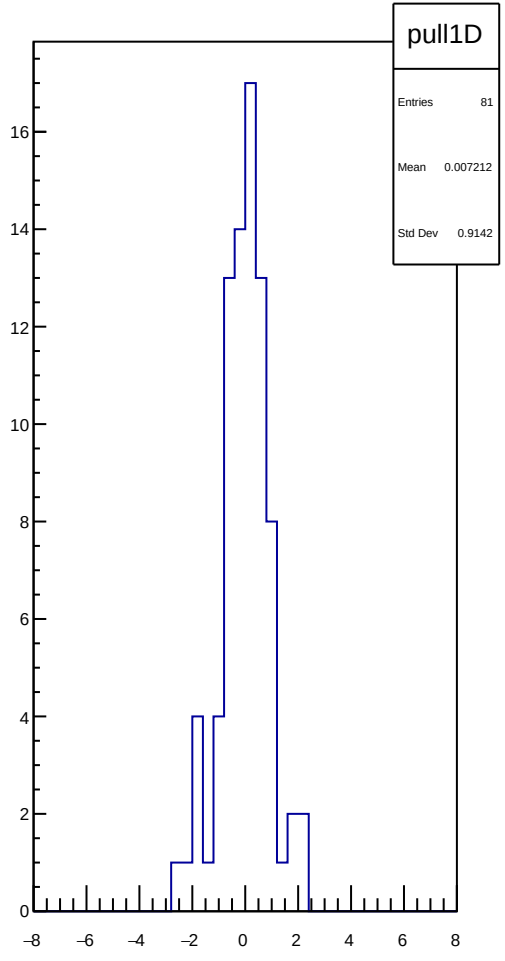

cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 152.2 / 80
p0 1151 ± 0.9211
1190
1180
1170
1160
1150
1140
1130
1120

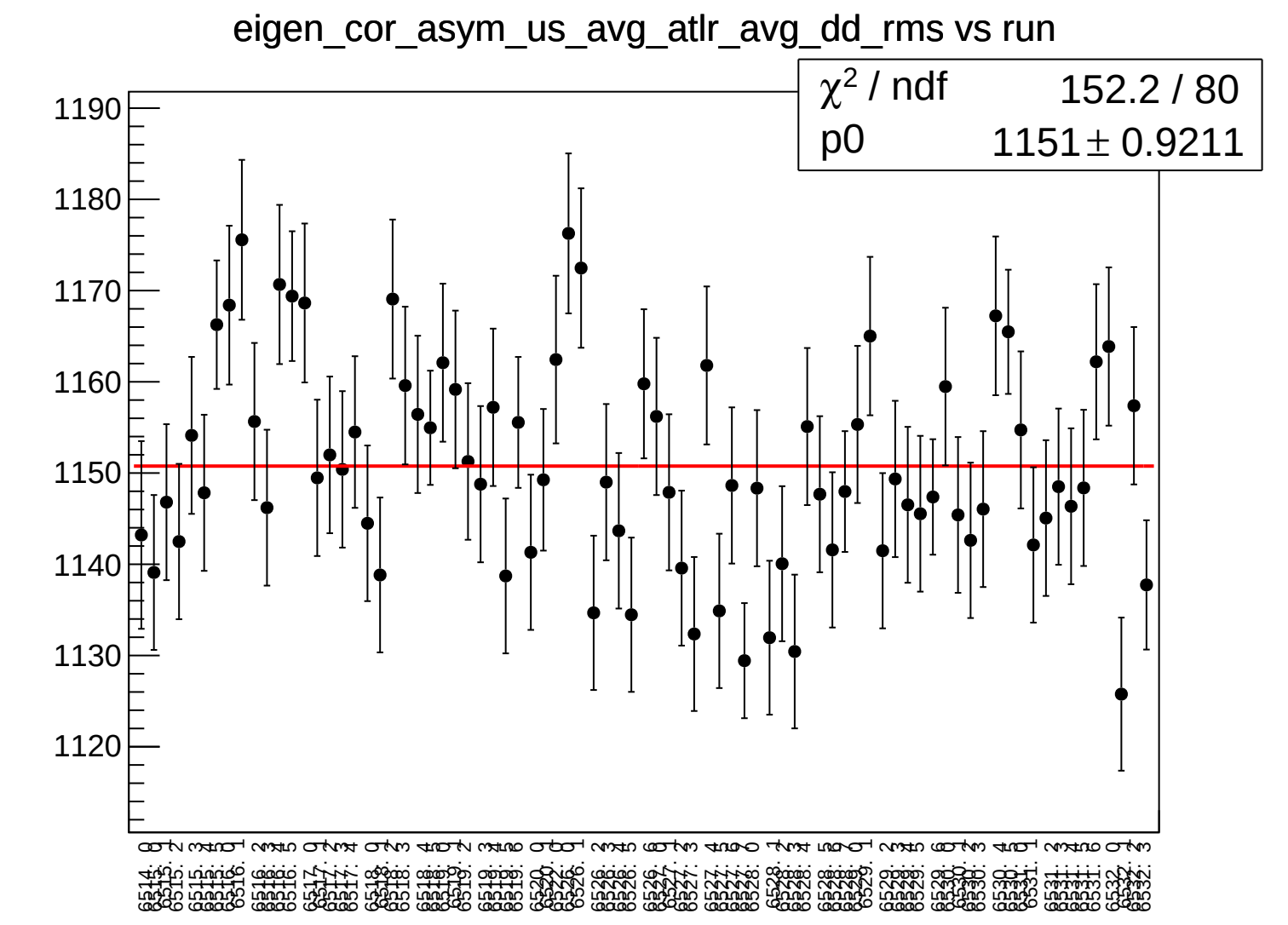

asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 88.73 / 80
p0 −3582 ± 4120
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean −55.25
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

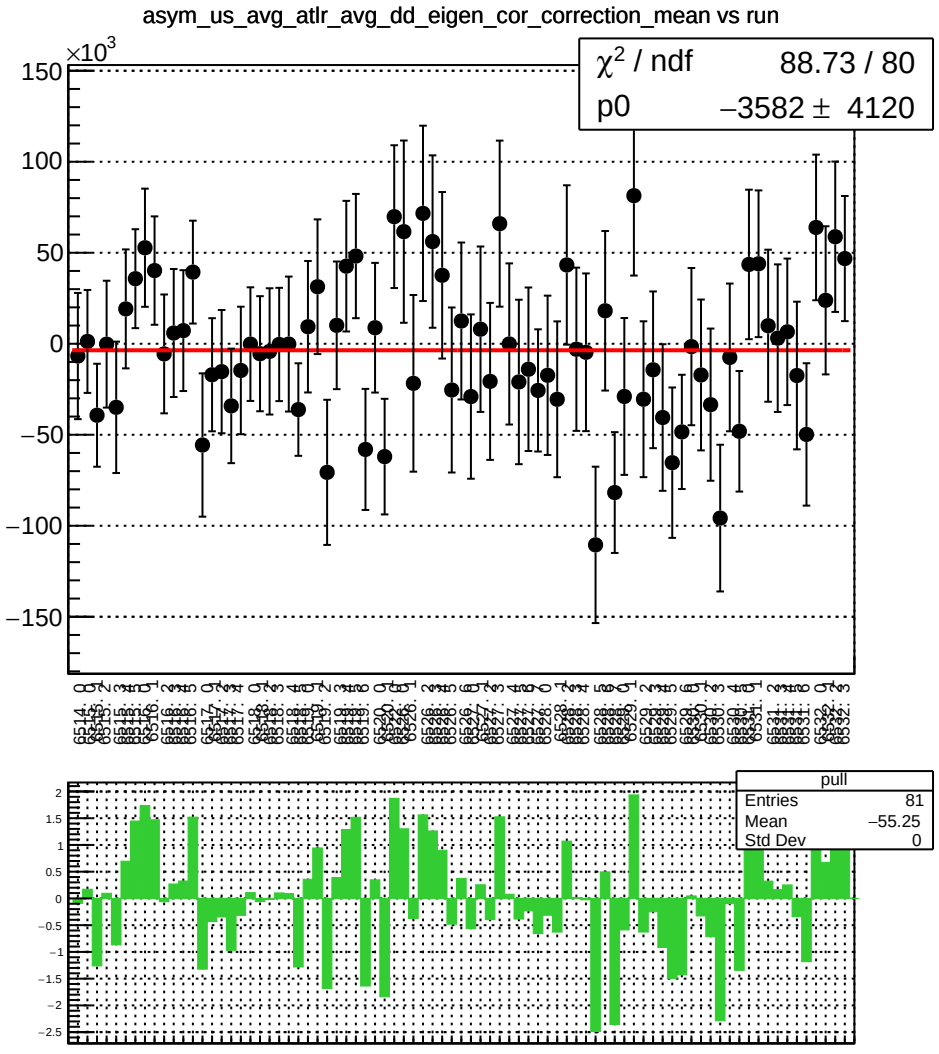

pull1D
Entries 81
Mean 0.01576
Std Dev 1.046
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

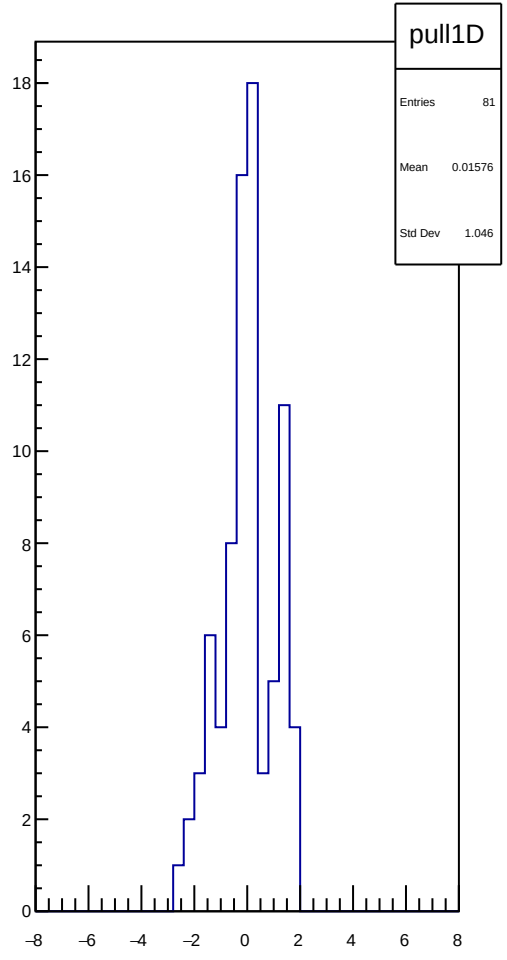

asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 3.013e+04 / 80
p0 3604 ± 2.913
4500
4000
3500
3000
2500

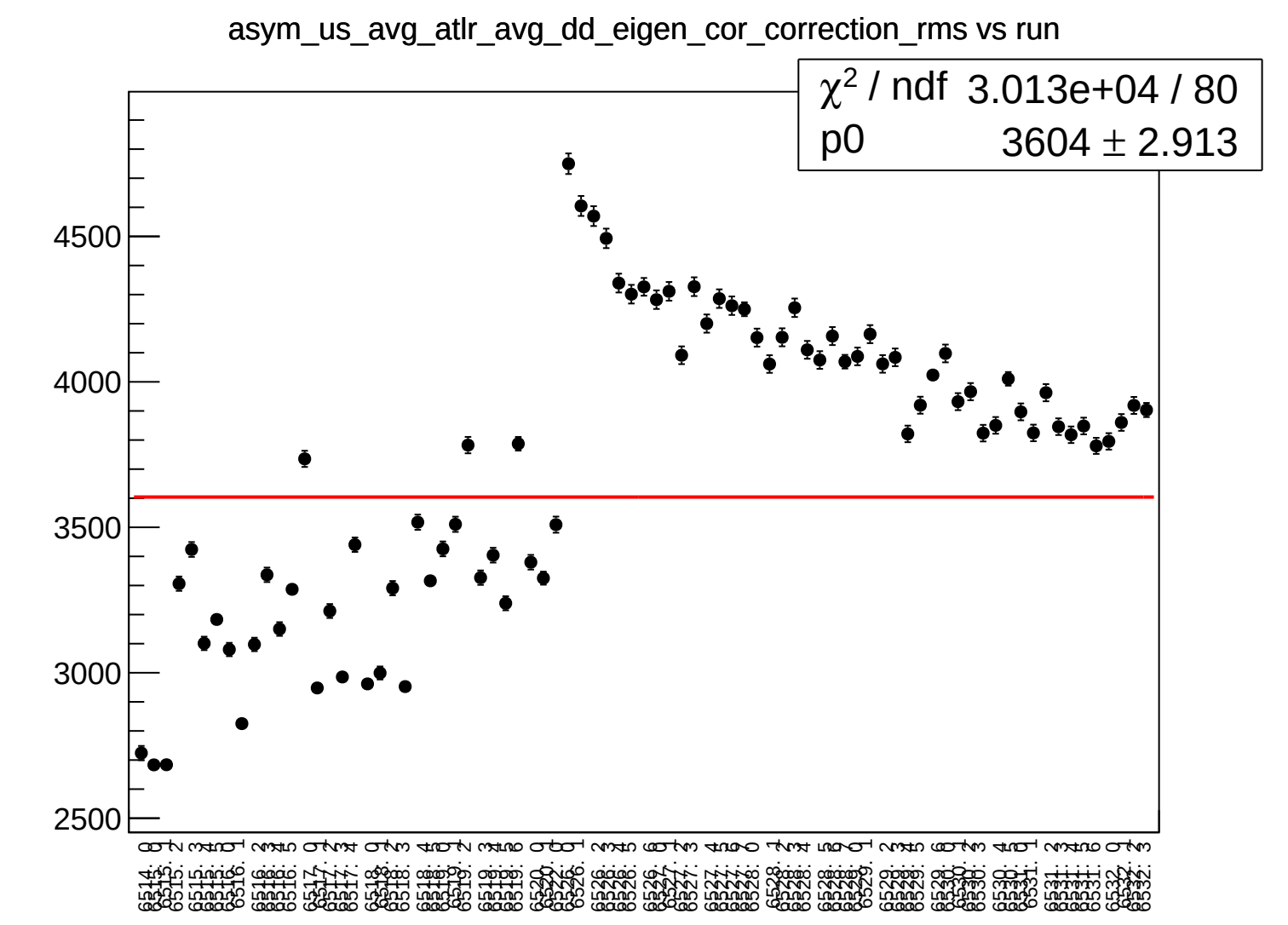

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 67.7 / 80
p0 −1486 ± 1303
40000
20000
0
−20000
−40000
pull
Entries 81
Mean 1.48
Std Dev 80.14
2
1
0
−1
−2

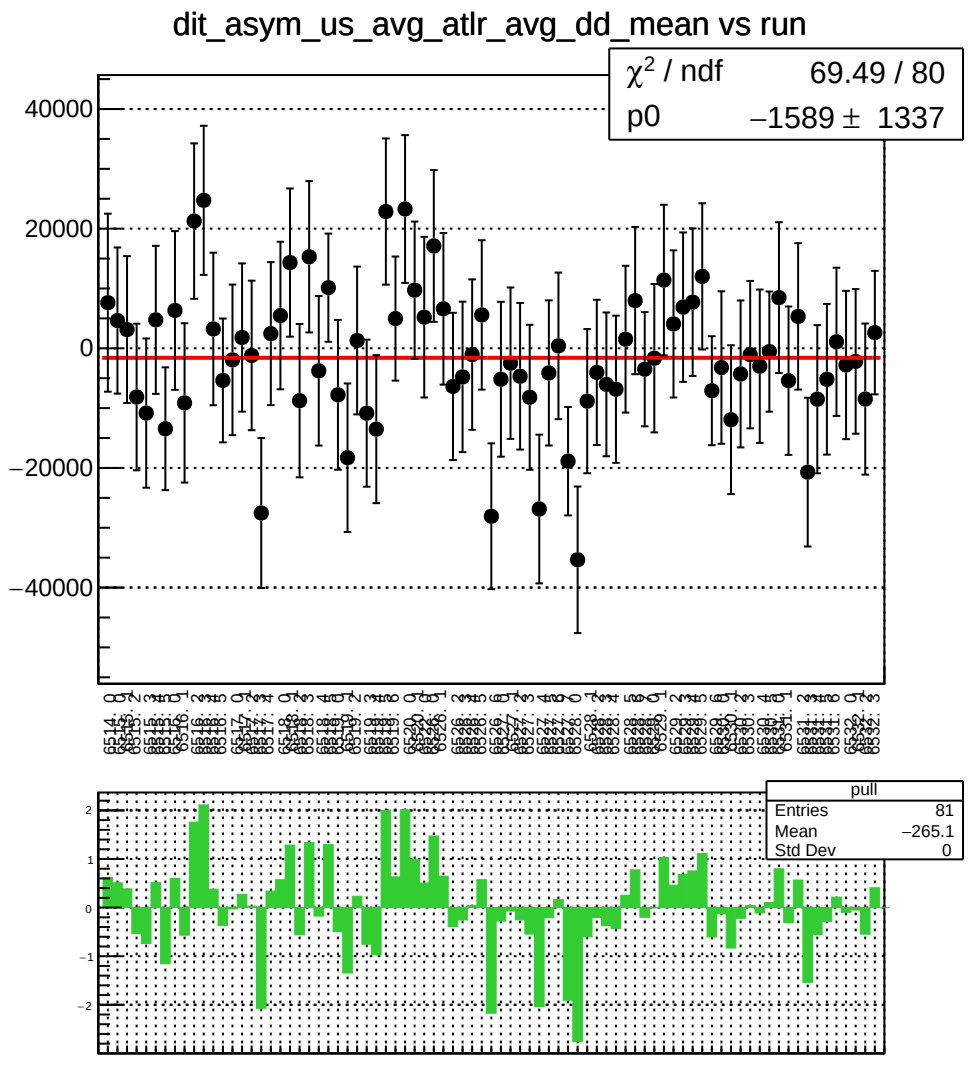

pull1D
Entries 81
Mean 0.007212
Std Dev 0.9142
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

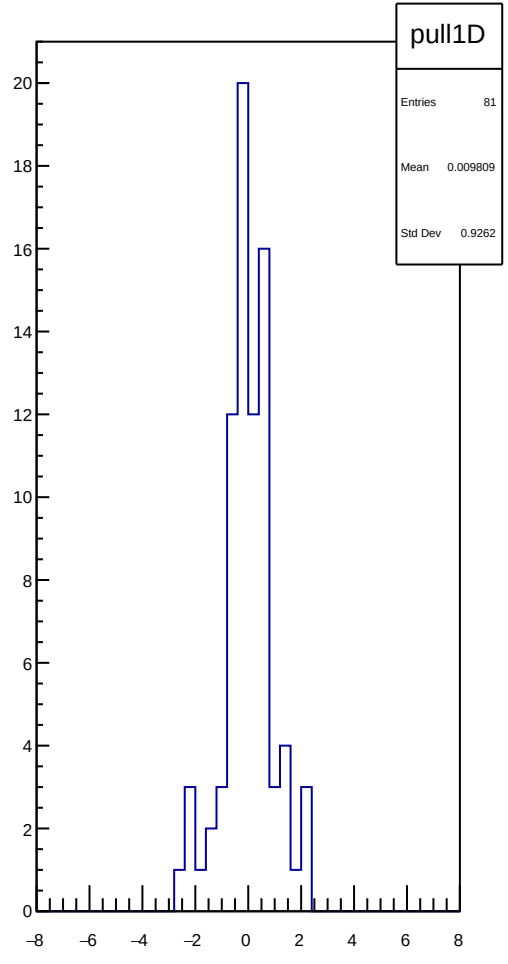

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 152.2 / 80
p0 1151 ± 0.9211
1190
1180
1170
1160
1150
1140
1130
1120

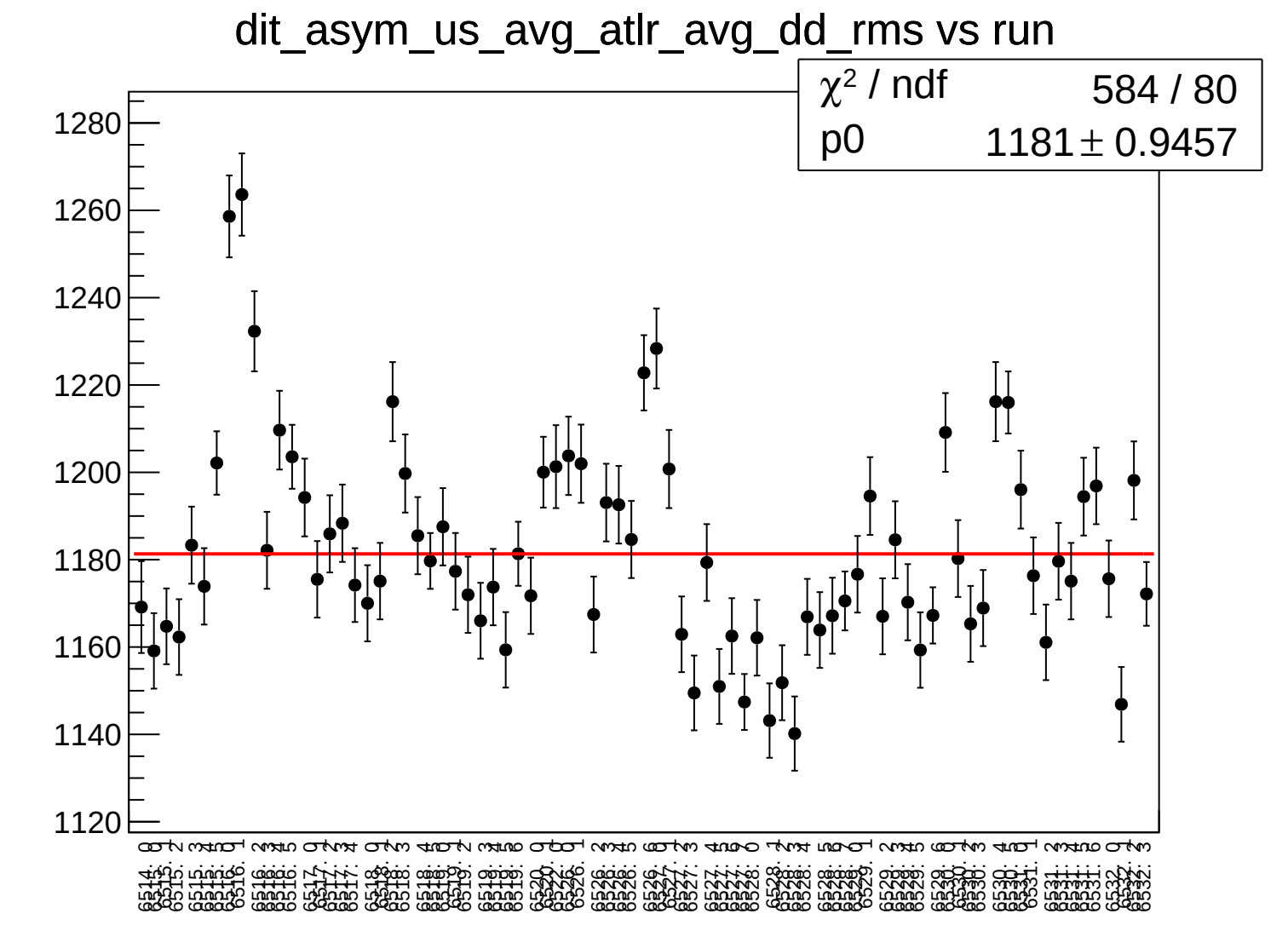

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 88.73 / 80
p0 −3582 ± 4120
pull
Entries 81
Mean −55.25
Std Dev 0

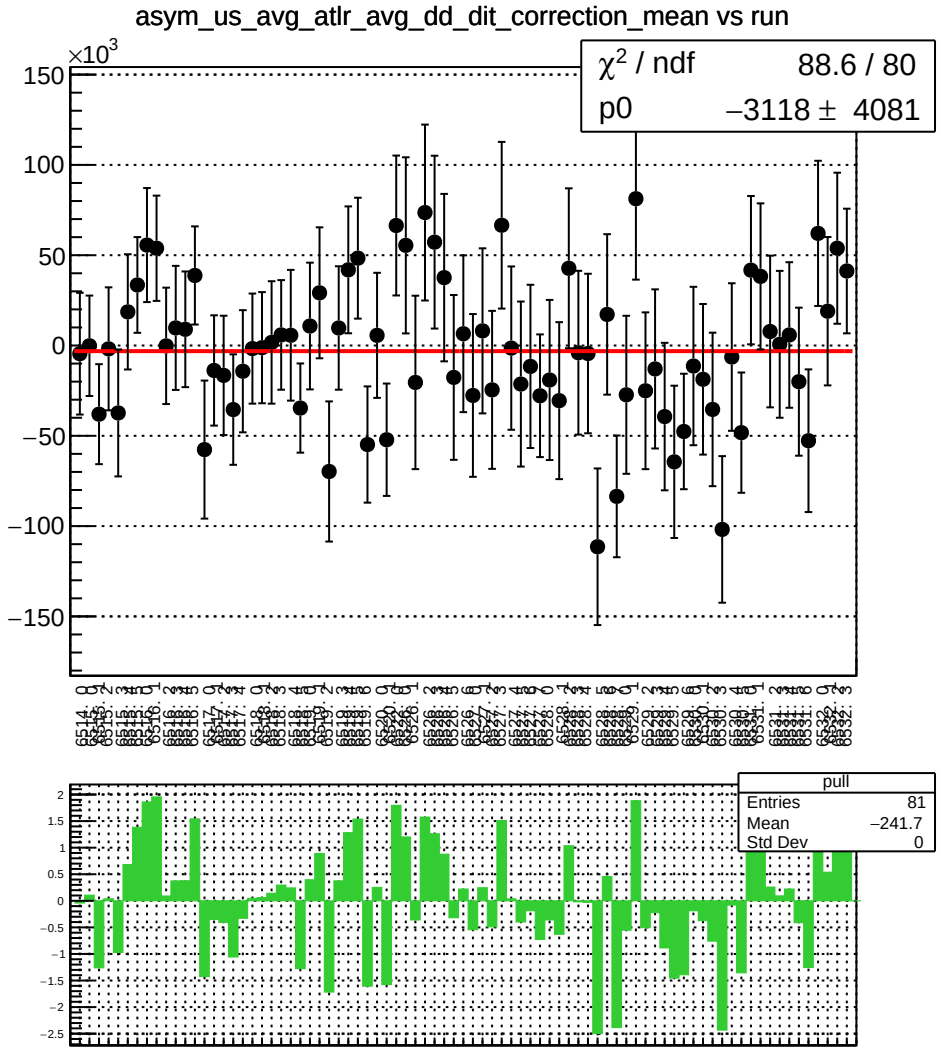

pull1D
Entries 81
Mean 0.01576
Std Dev 1.046

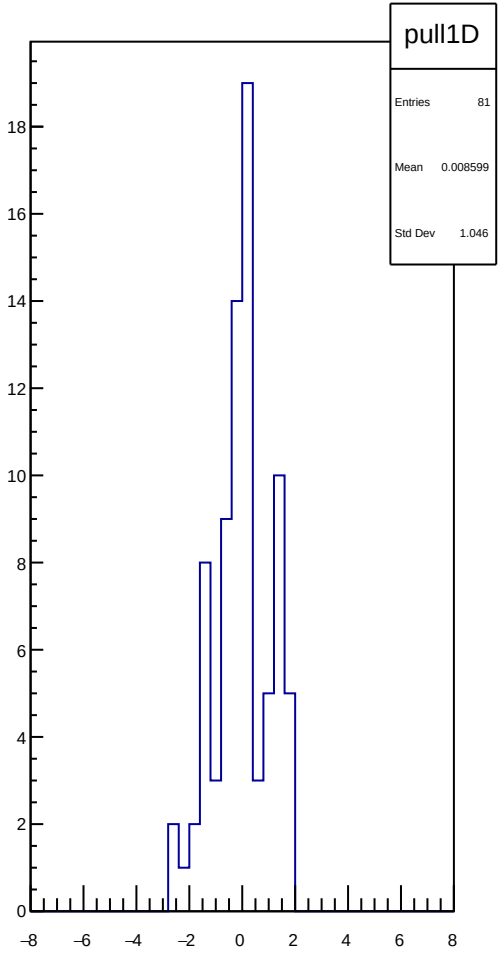

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.013e+04 / 80
p0 3604 ± 2.913
4500
4000
3500
3000
2500

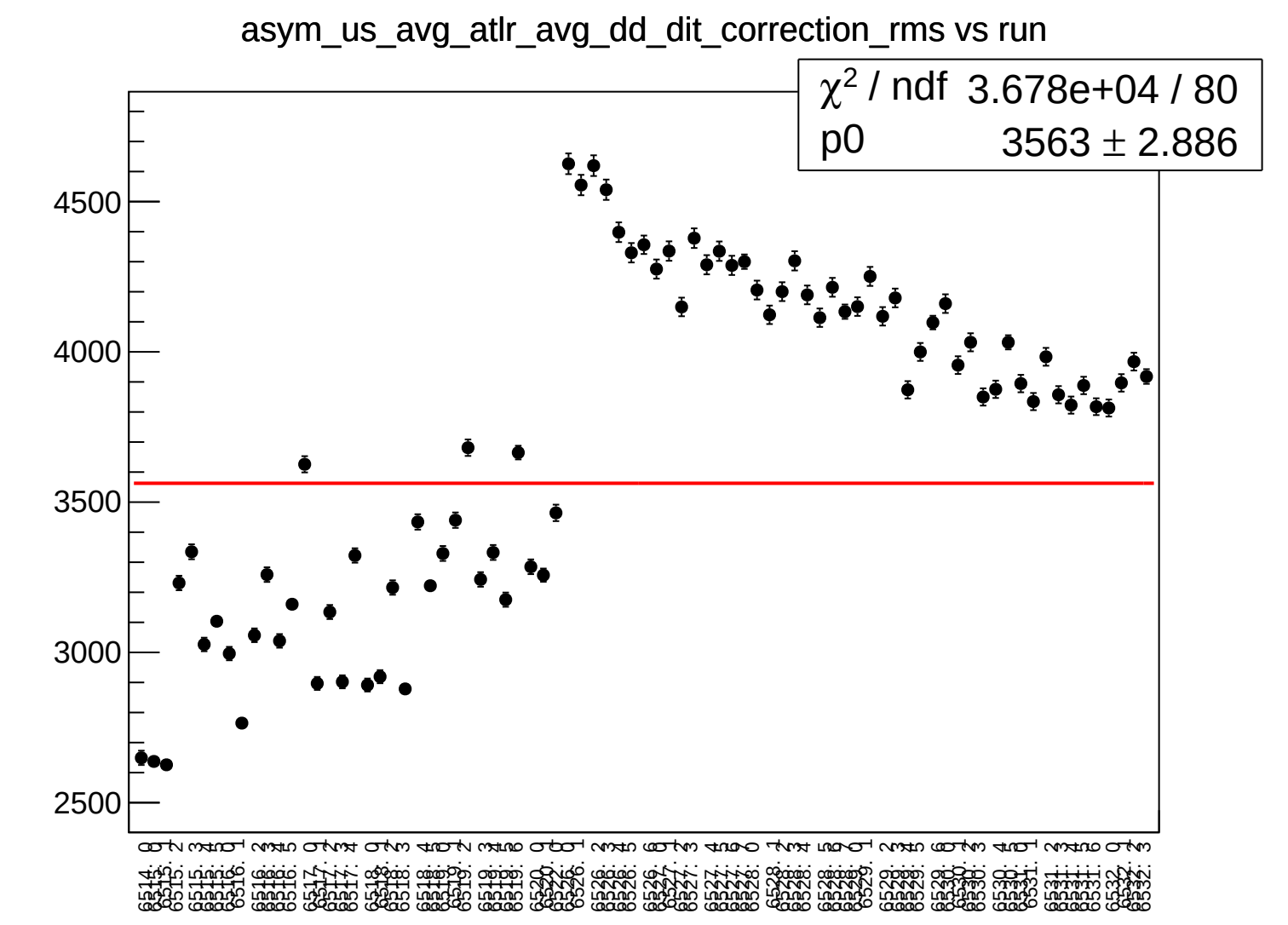

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 69.49 / 80
p0 −1589 ± 1337
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −265.1
Std Dev 0
2
1
0
−1
−2

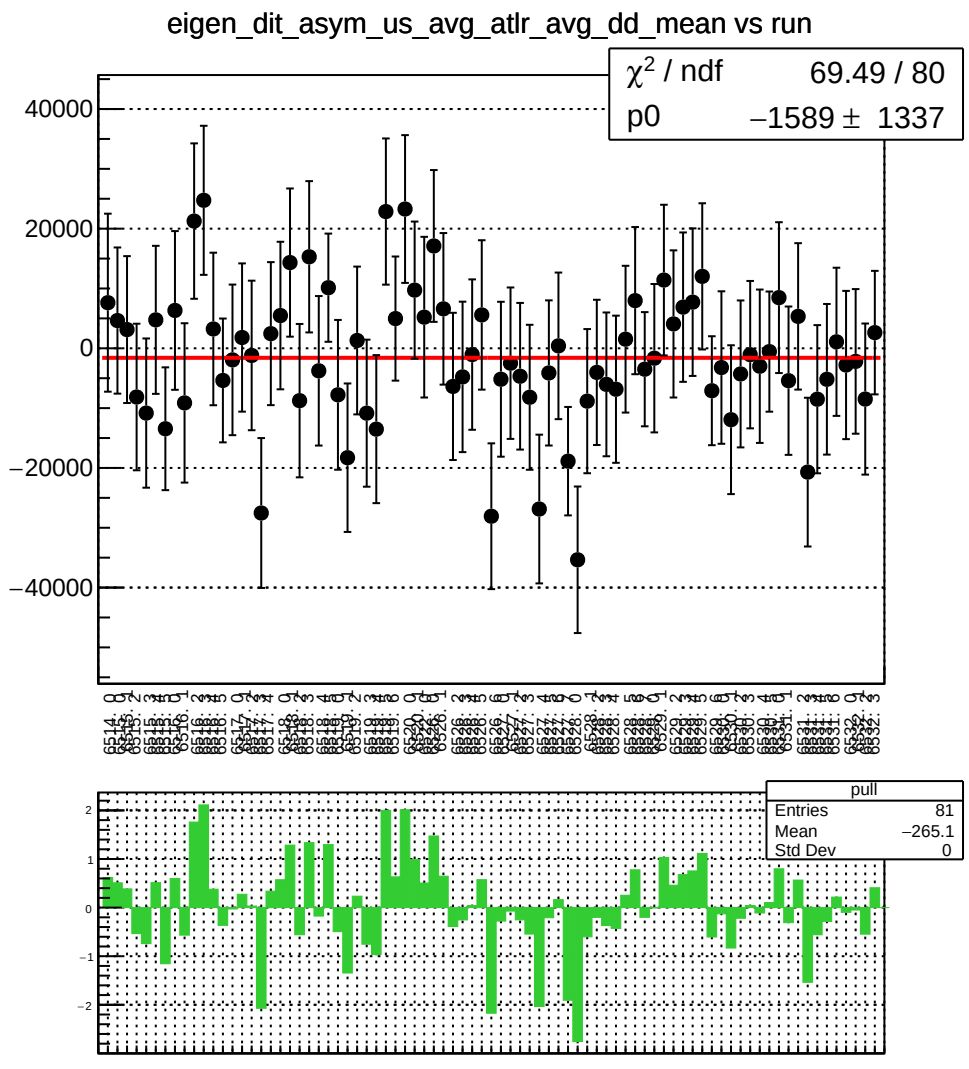

pull1D
Entries 81
Mean 0.009809
Std Dev 0.9262
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

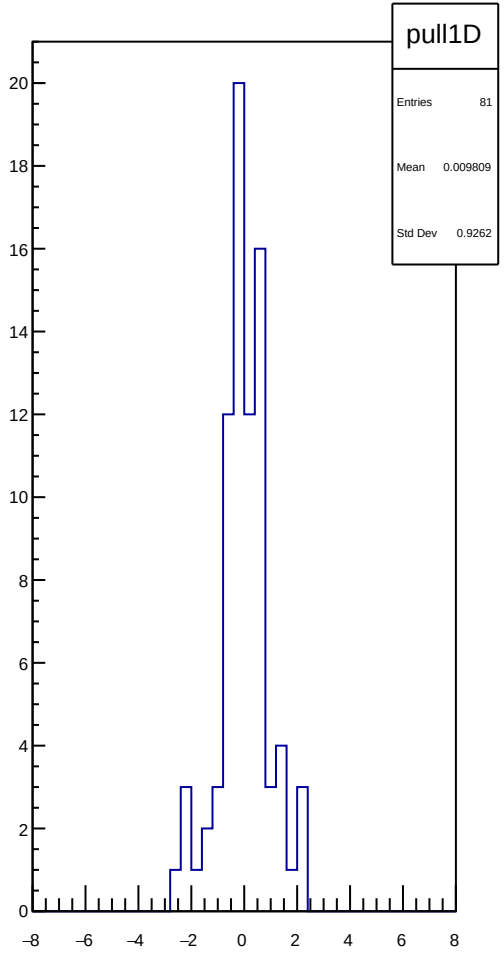

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 584 / 80
p0 1181 ± 0.9457
1280
1260
1240
1220
1200
1180
1160
1140
1120

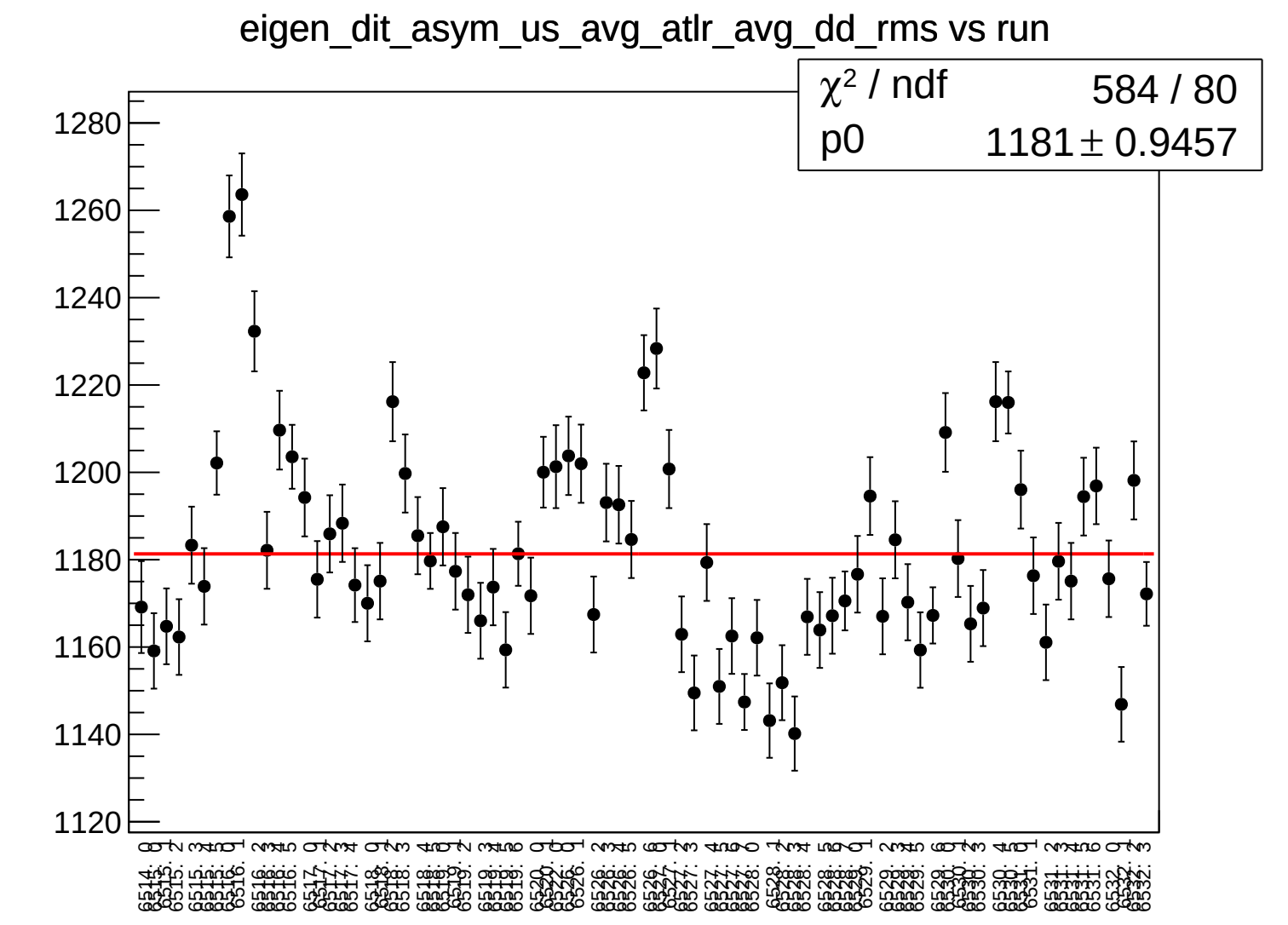

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 88.6 / 80
p0 −3118 ± 4081
pull
Entries 81
Mean −241.7
Std Dev 0

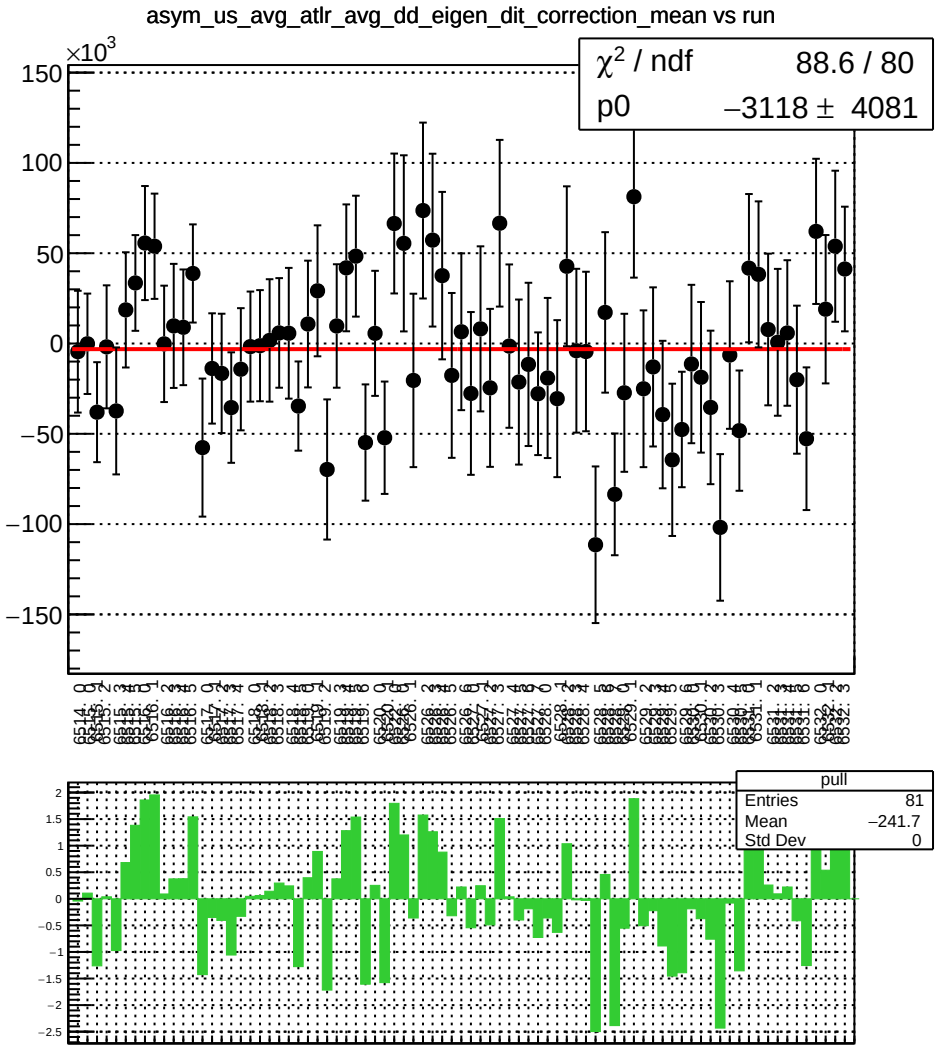

pull1D
Entries 81
Mean 0.008599
Std Dev 1.046

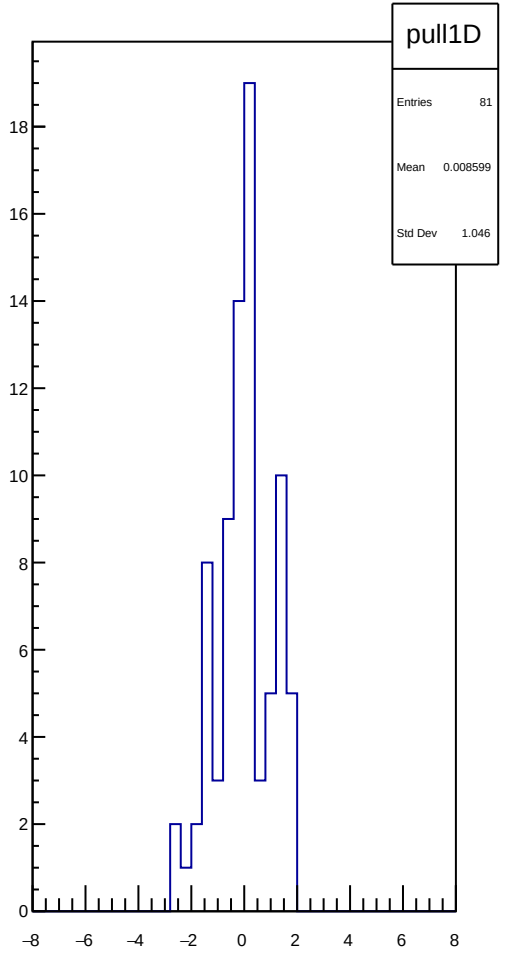

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ² / ndf 3.678e+04 / 80
p0 3563 ± 2.886
4500
4000
3500
3000
2500

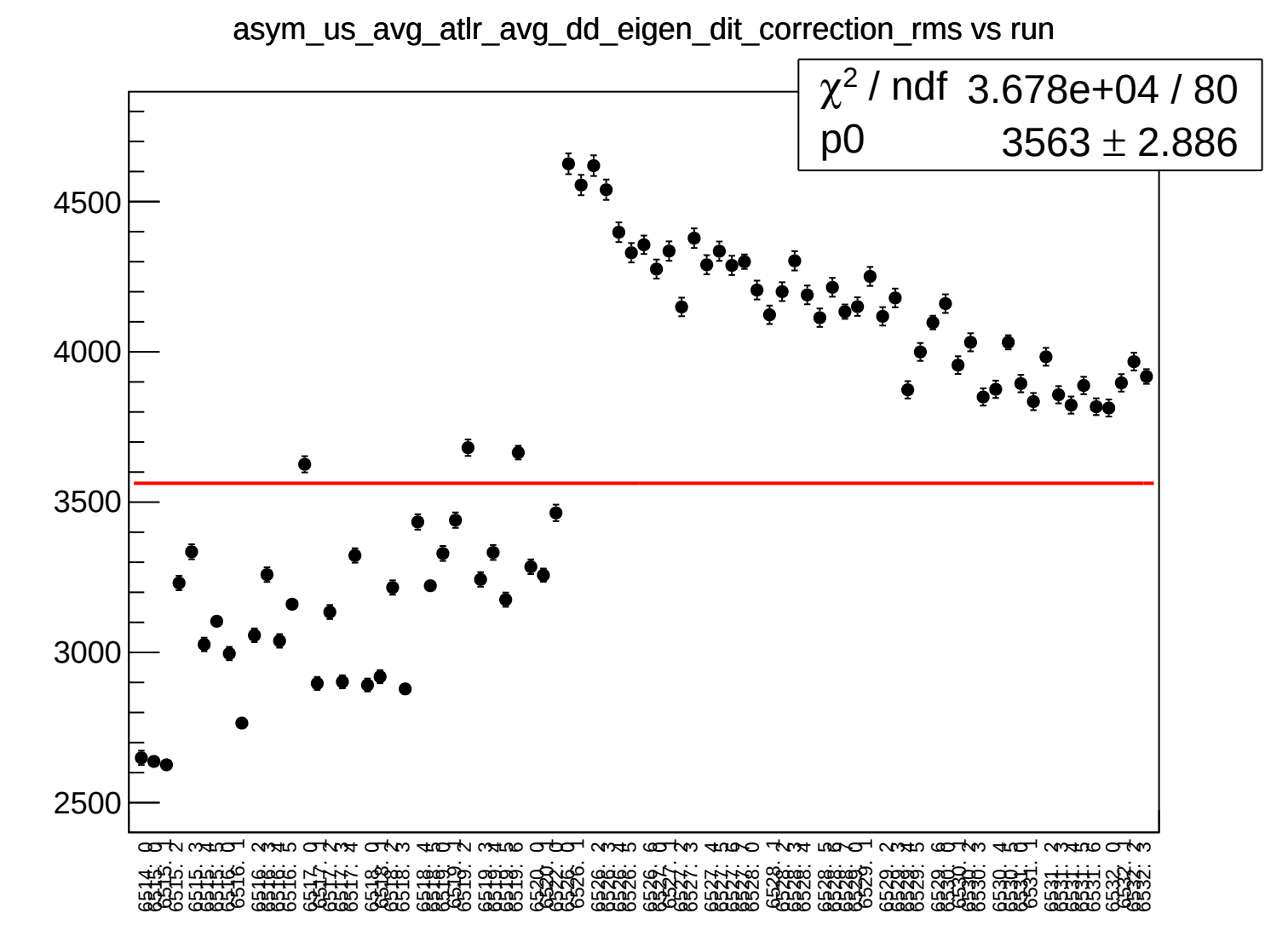

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 69.49 / 80
p0 −1589 ± 1337
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −265.1
Std Dev 0
2
1
0
−1
−2

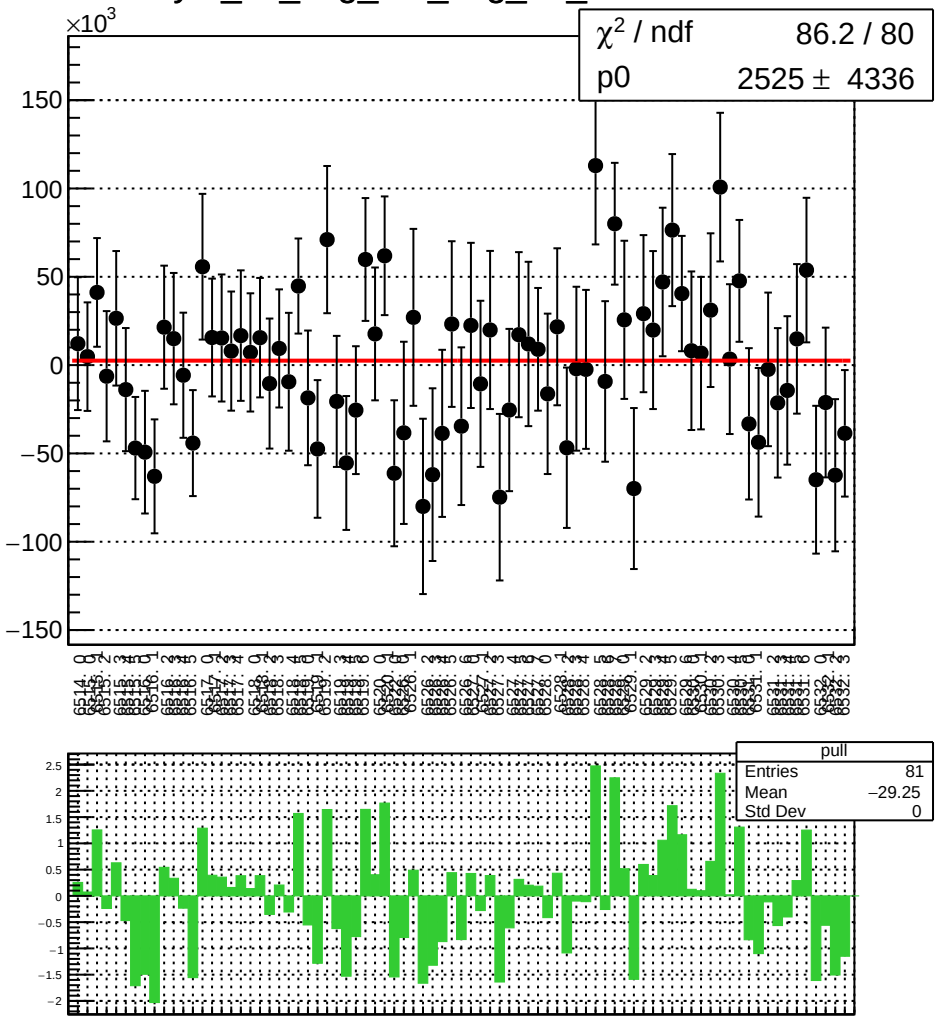

pull1D
Entries 81
Mean 0.009809
Std Dev 0.9262
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

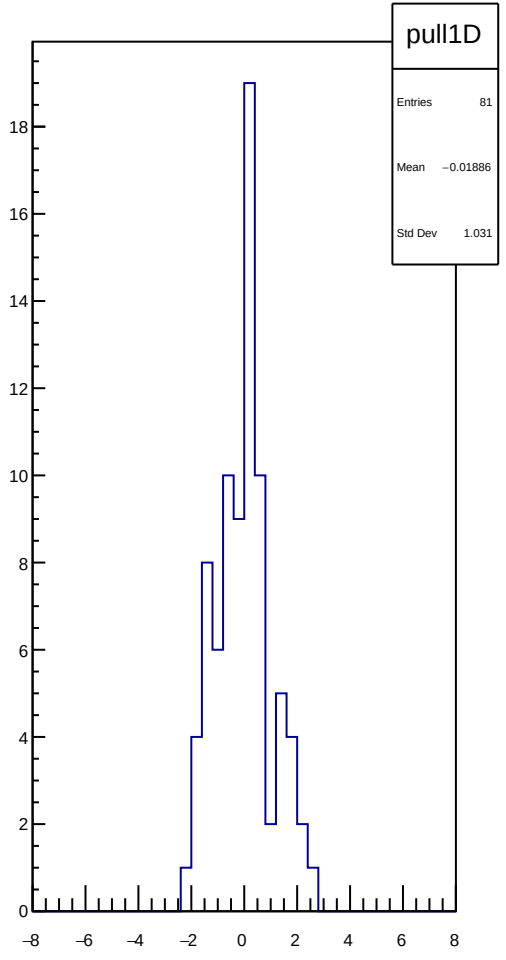

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 584 / 80
p0 1181 ± 0.9457
1280
1260
1240
1220
1200
1180
1160
1140
1120

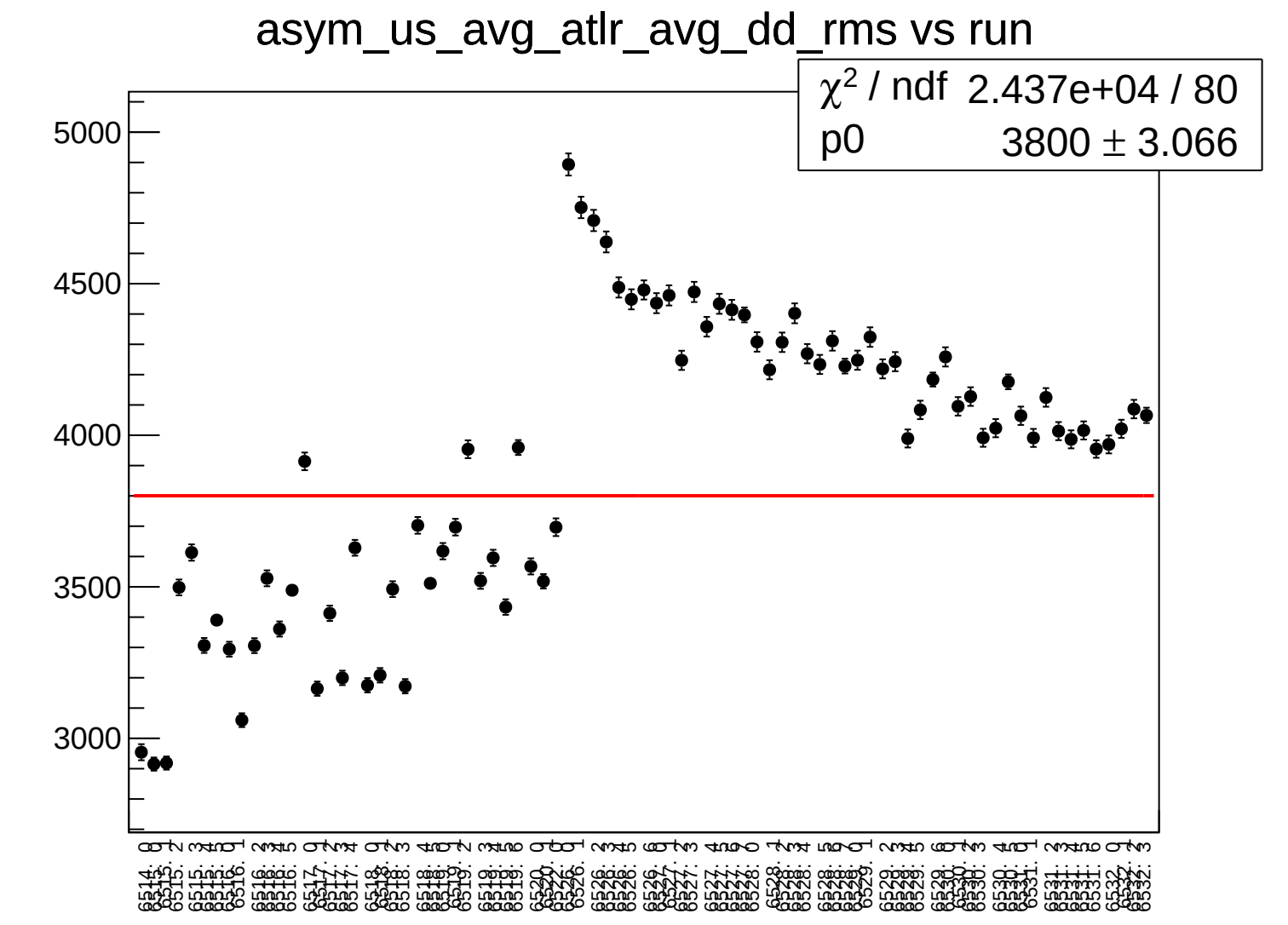

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 88.6 / 80
p0 −3118 ± 4081
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean −241.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

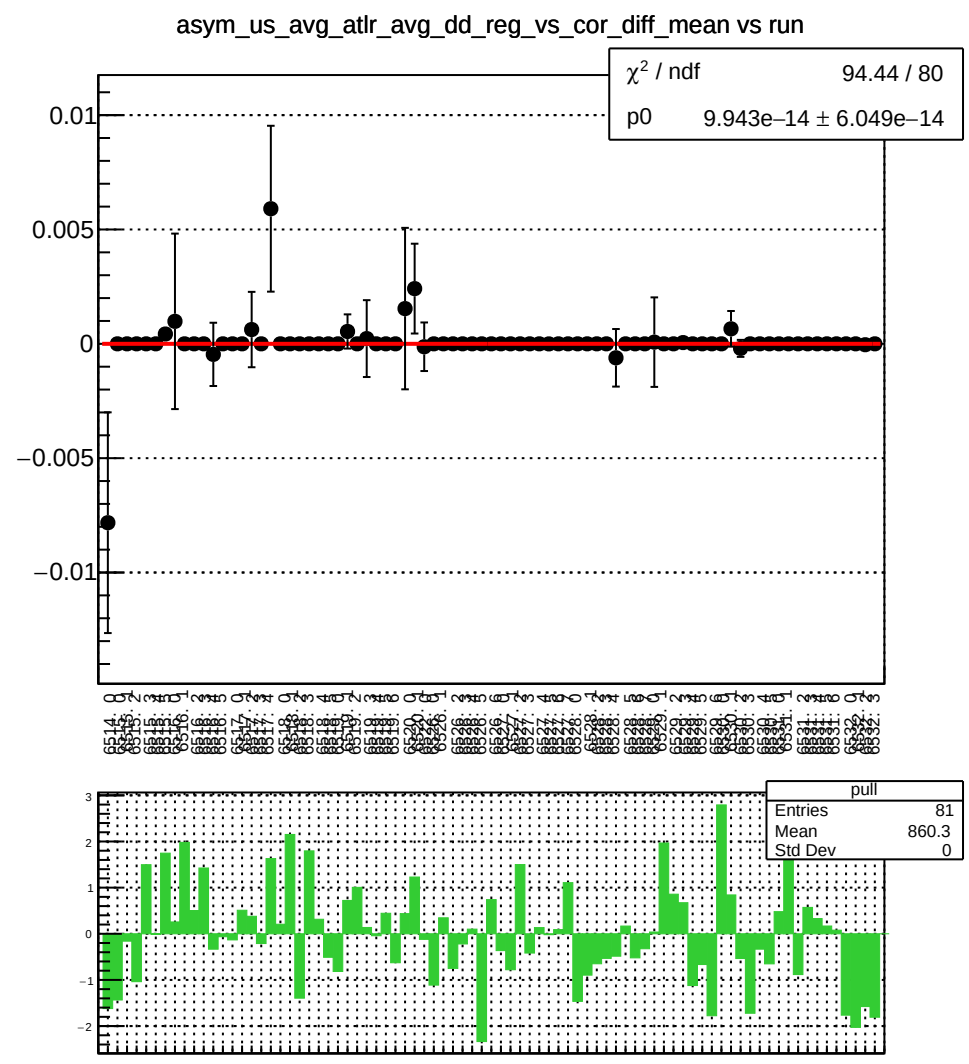

pull1D
Entries 81
Mean 0.008599
Std Dev 1.046
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

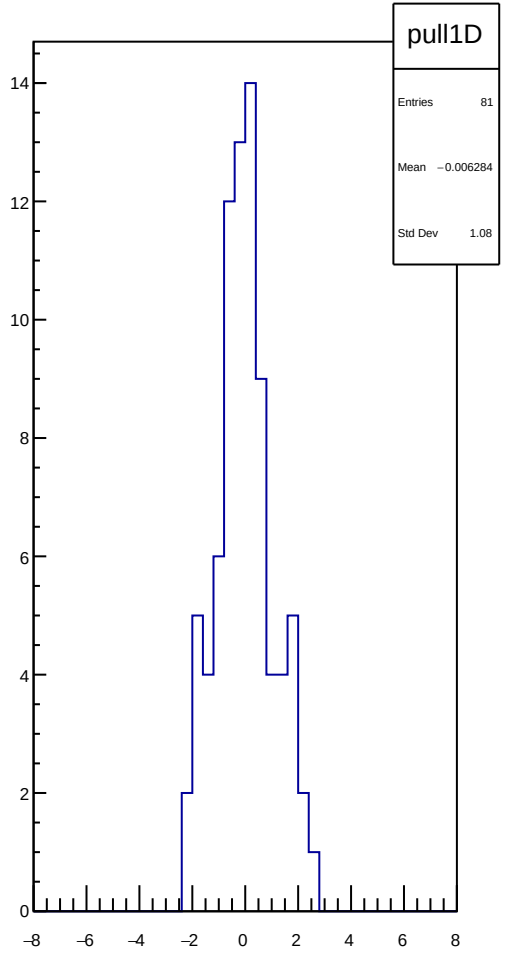

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.678e+04 / 80
p0 3563 ± 2.886
4500
4000
3500
3000
2500

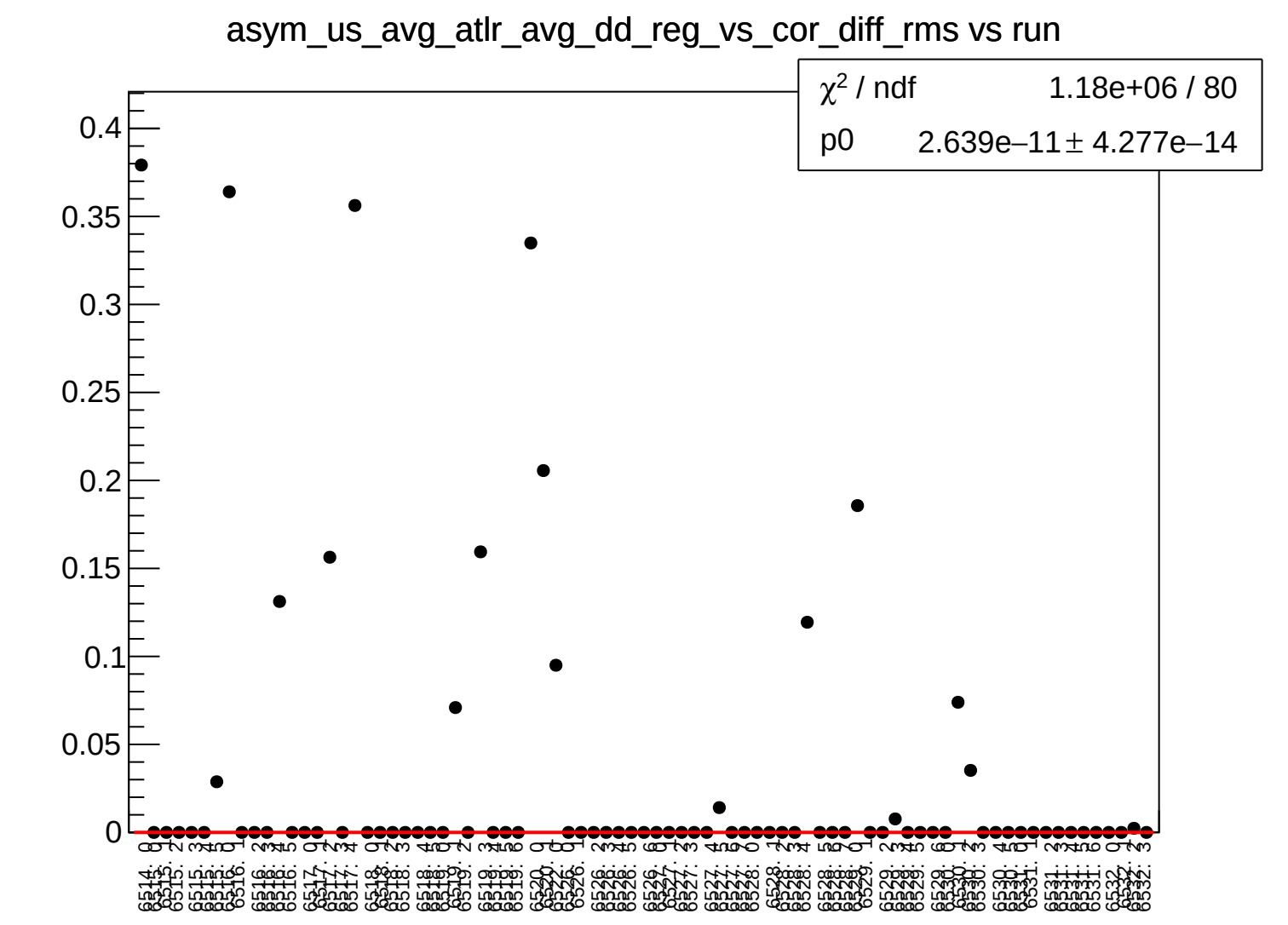

asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ^2 / ndf 86.2 / 80
p0 2525 ± 4336
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean −29.25
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

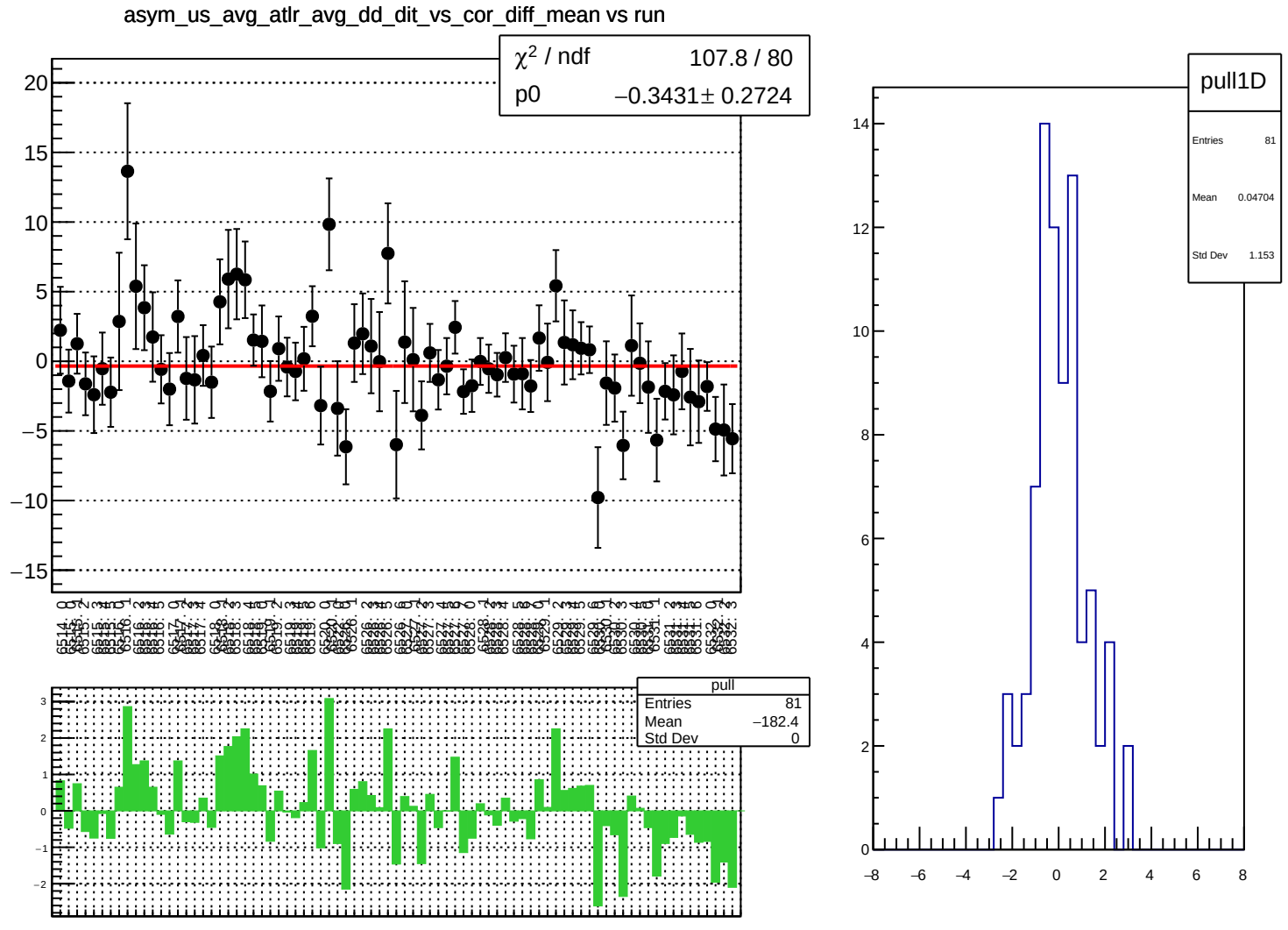

pull1D
Entries 81
Mean −0.01886
Std Dev 1.031
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

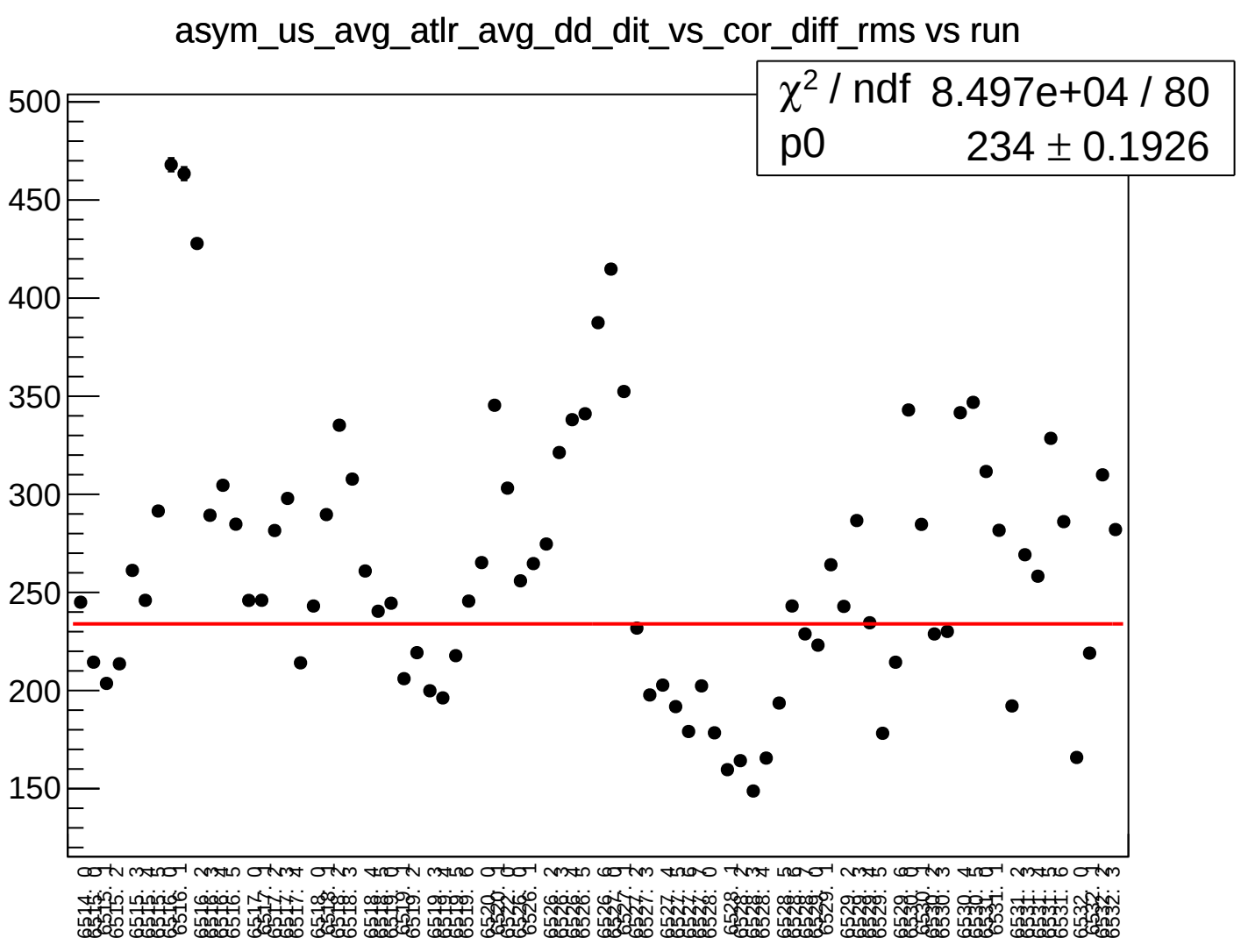

asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 2.437e+04 / 80
p0 3800 ± 3.066
5000
4500
4000
3500
3000

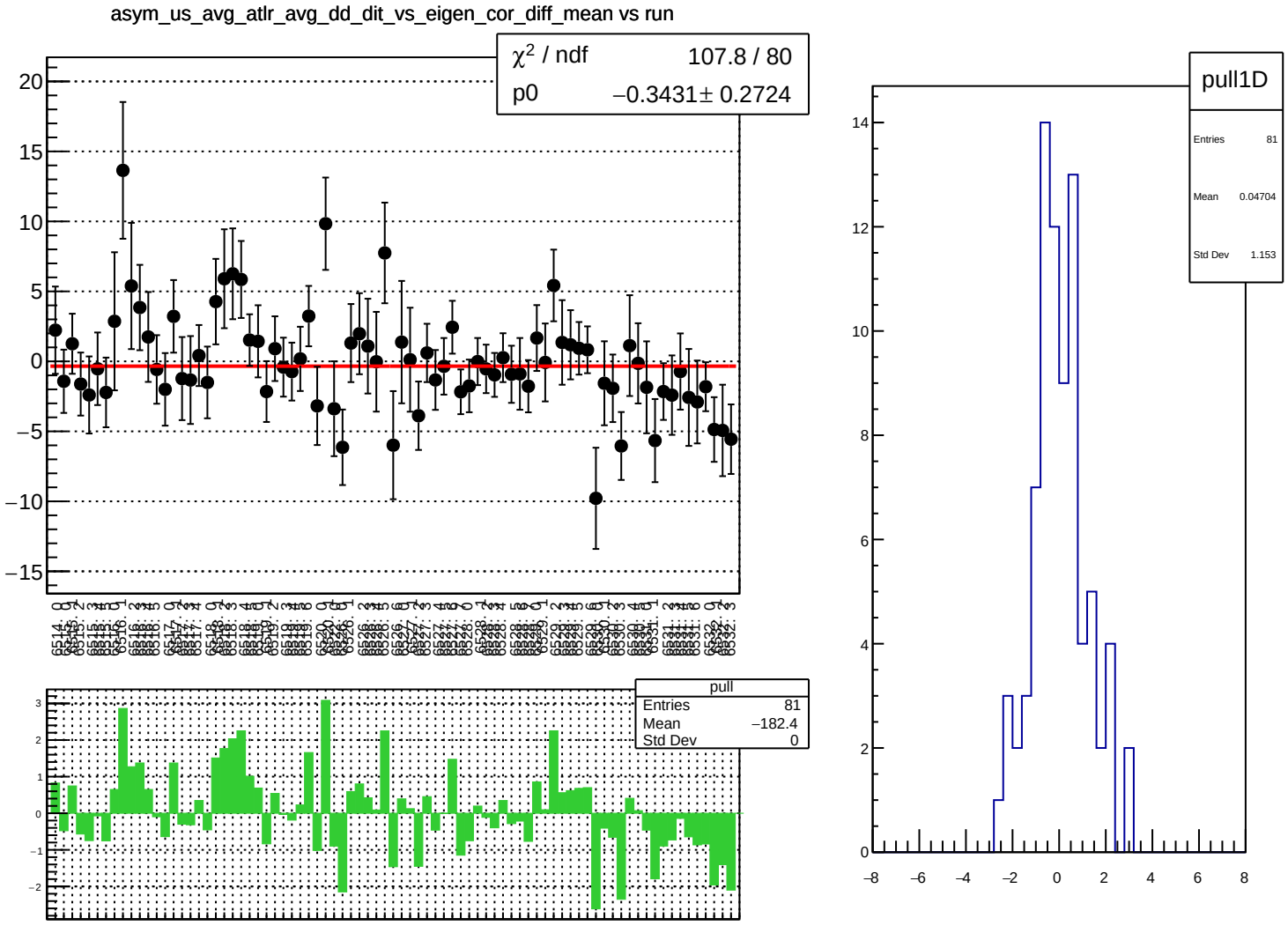

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 94.44 / 80
p0 9.943e−14 ± 6.049e−14
0.01
0.005
0
−0.005
−0.01
pull
Entries 81
Mean 860.3
Std Dev 0
3
2
1
0
−1
−2

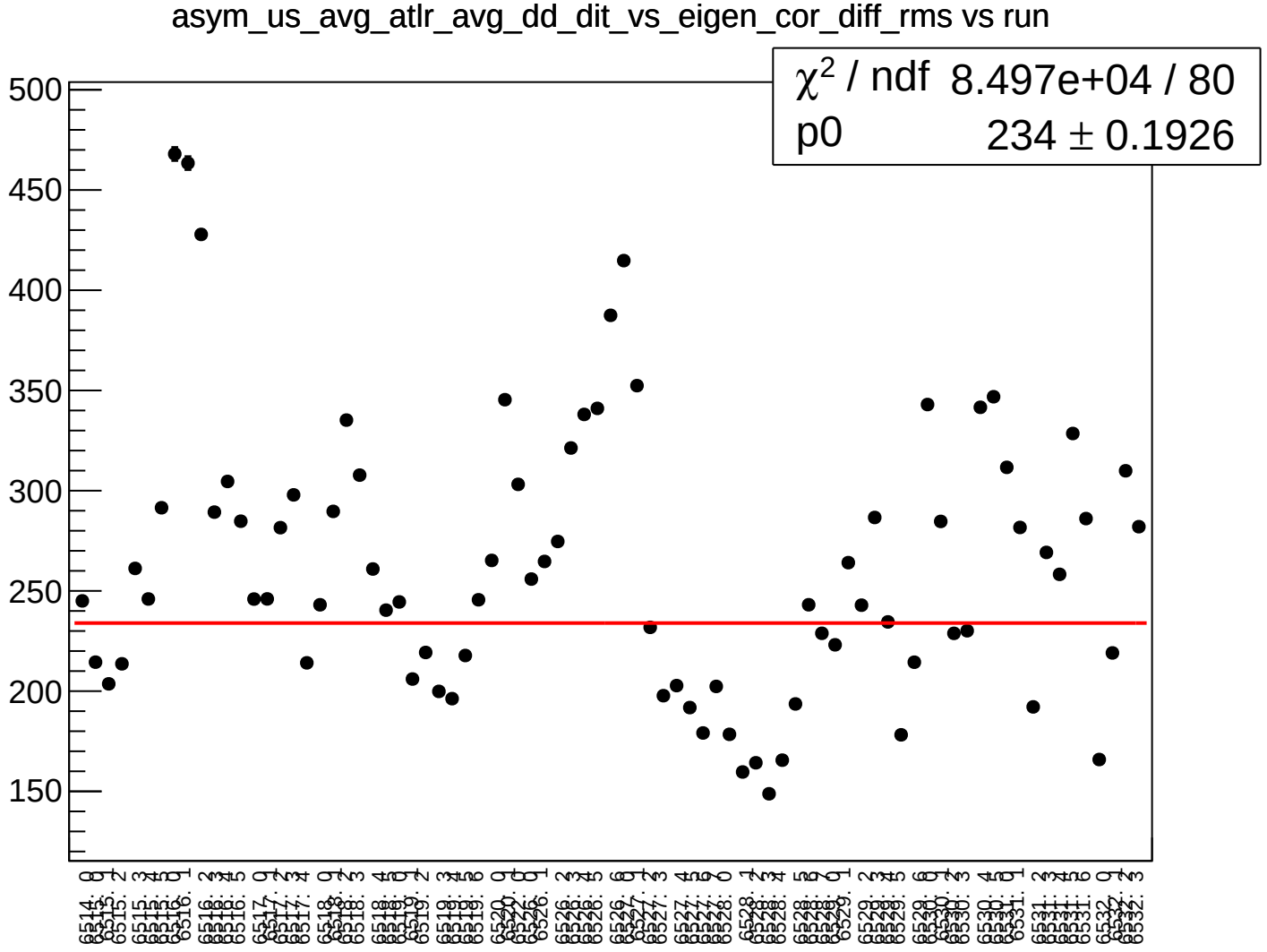

pull1D
Entries 81
Mean −0.006284
Std Dev 1.08
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

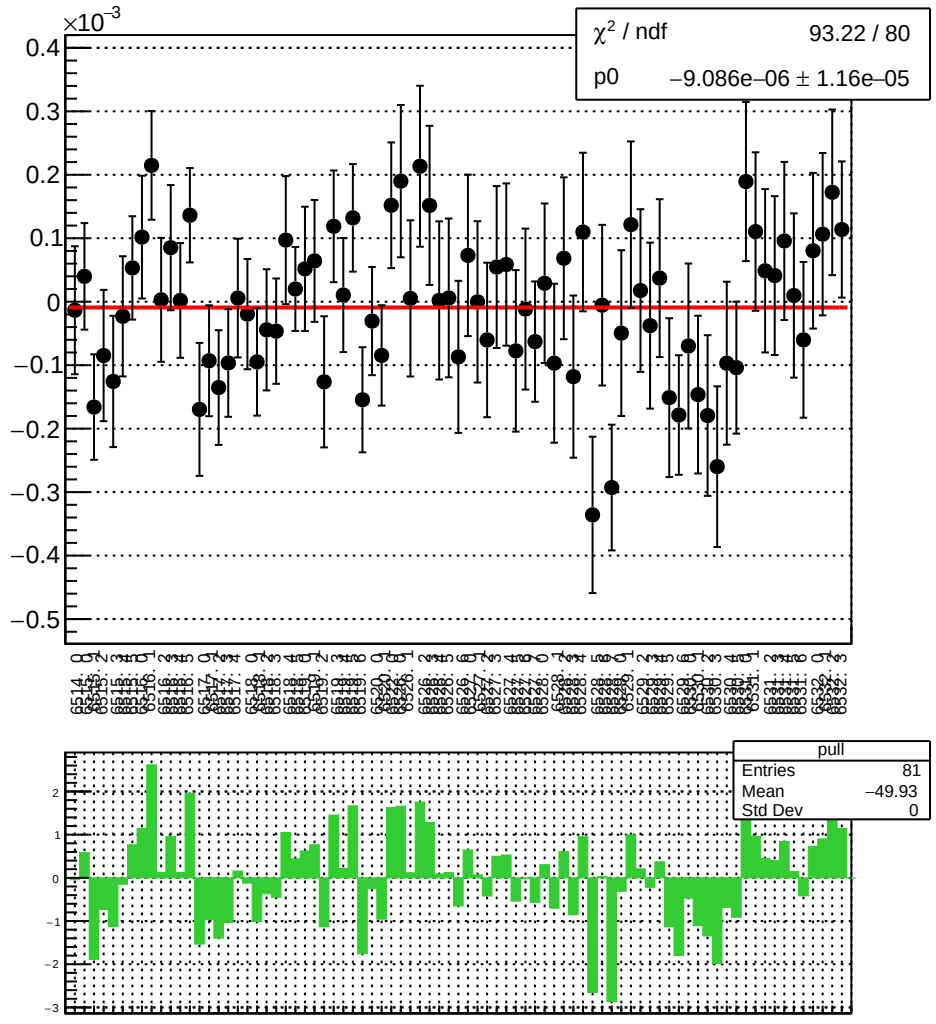

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.18e+06 / 80
p0 2.639e−11 ± 4.277e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0

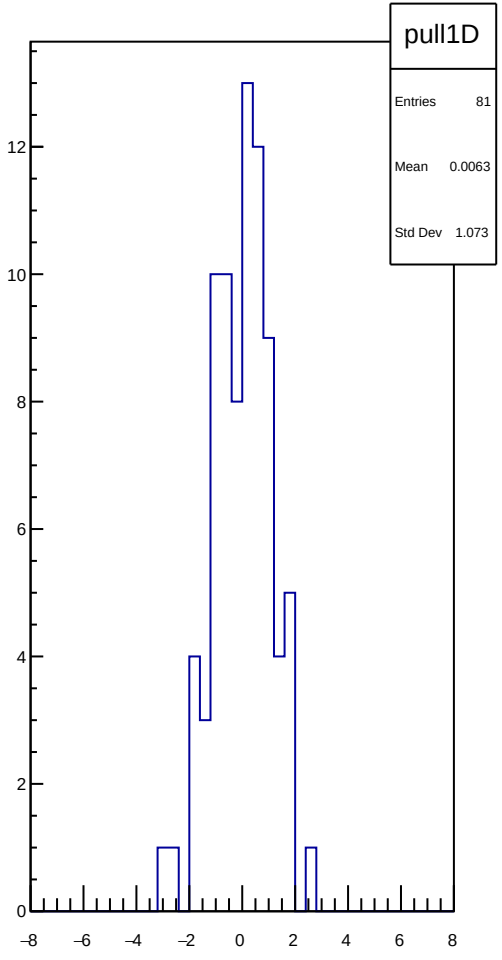

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 107.8 / 80
p0 −0.3431± 0.2724
pull
Entries 81
Mean −182.4
Std Dev 0
pull1D
Entries 81
Mean 0.04704
Std Dev 1.153

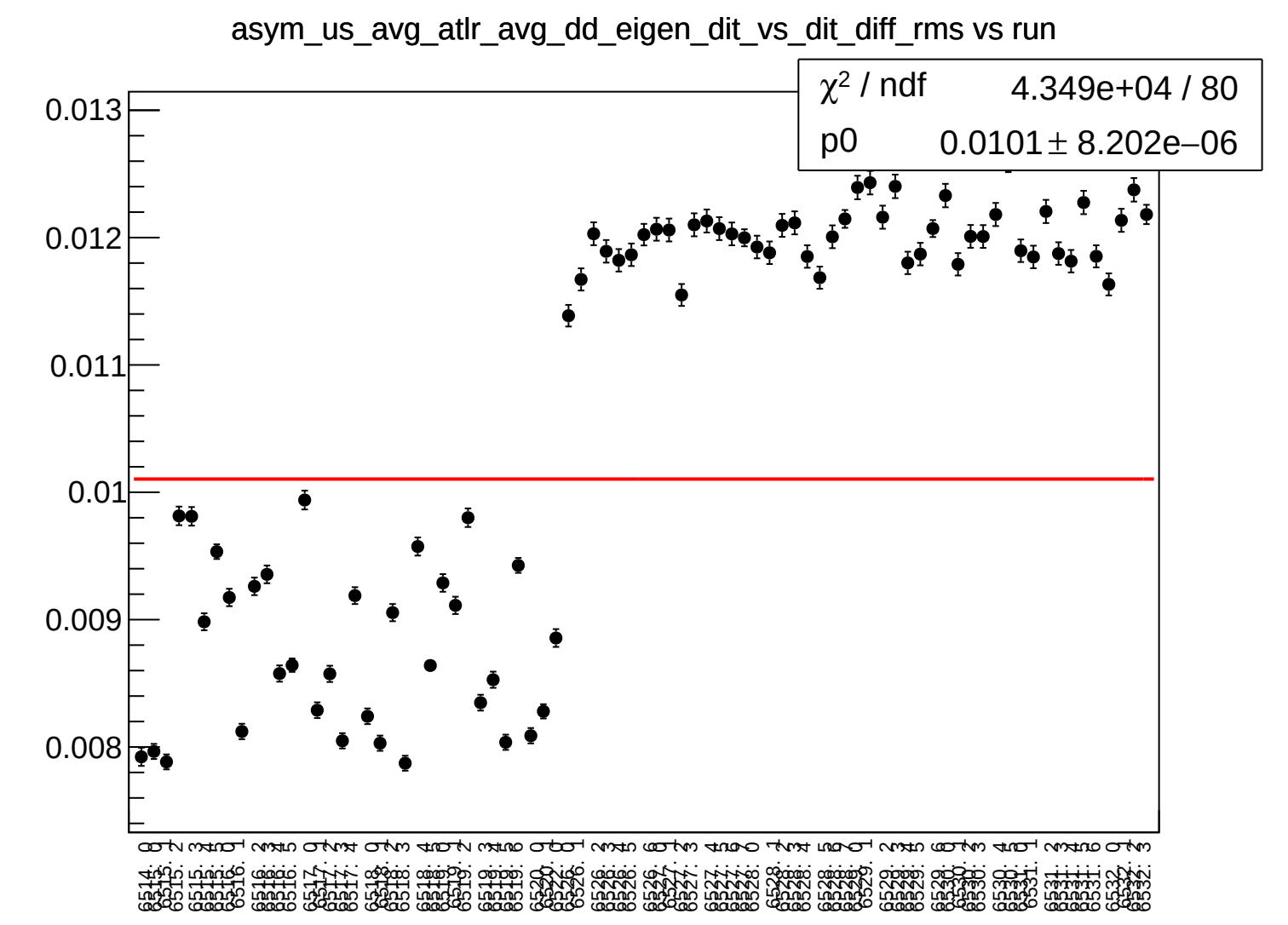

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.497e+04 / 80
p0 234 ± 0.1926
500
450
400
350
300
250
200
150

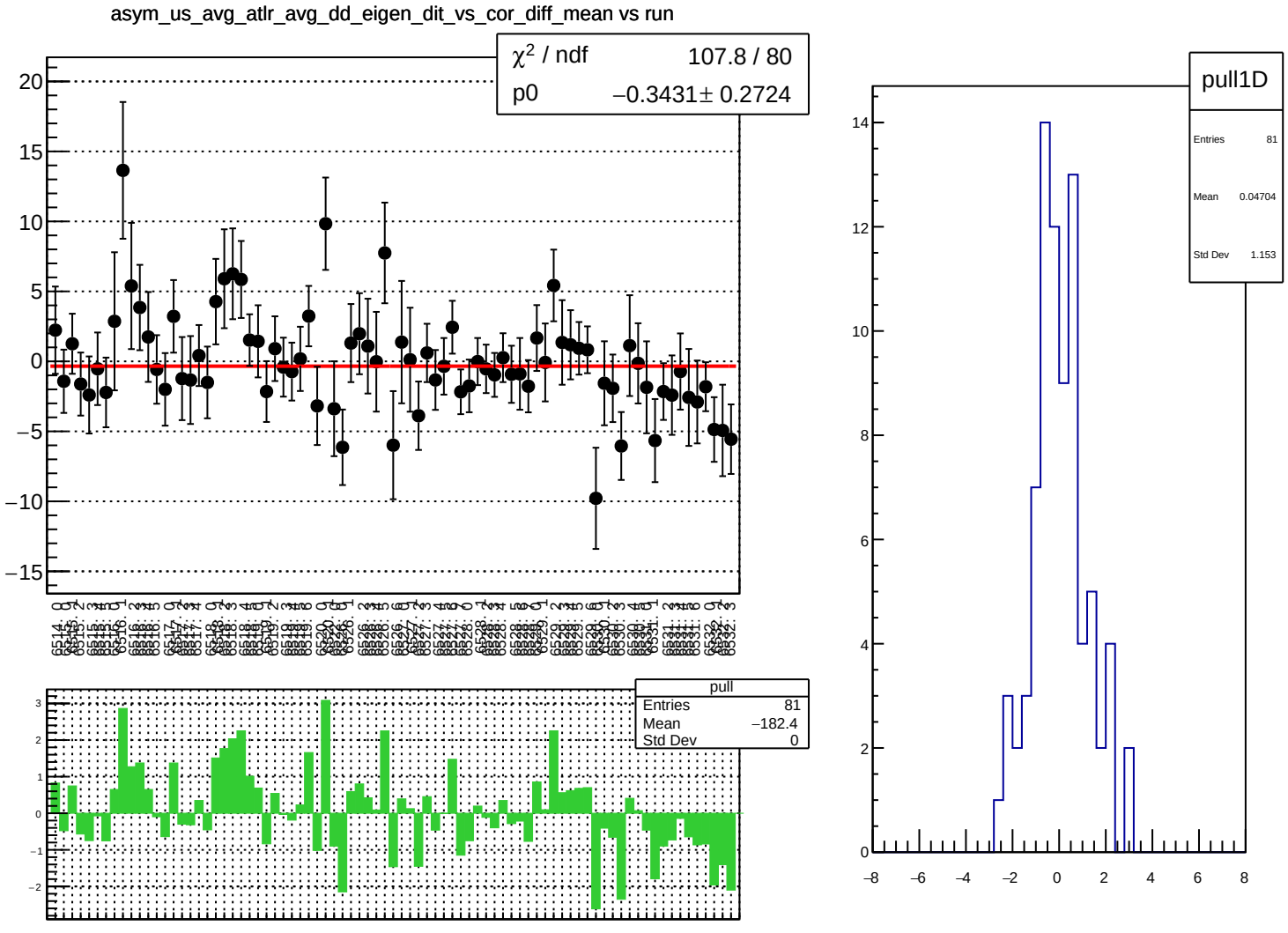

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.8 / 80
p0 −0.3431± 0.2724
pull
Entries 81
Mean −182.4
Std Dev 0
pull1D
Entries 81
Mean 0.04704
Std Dev 1.153

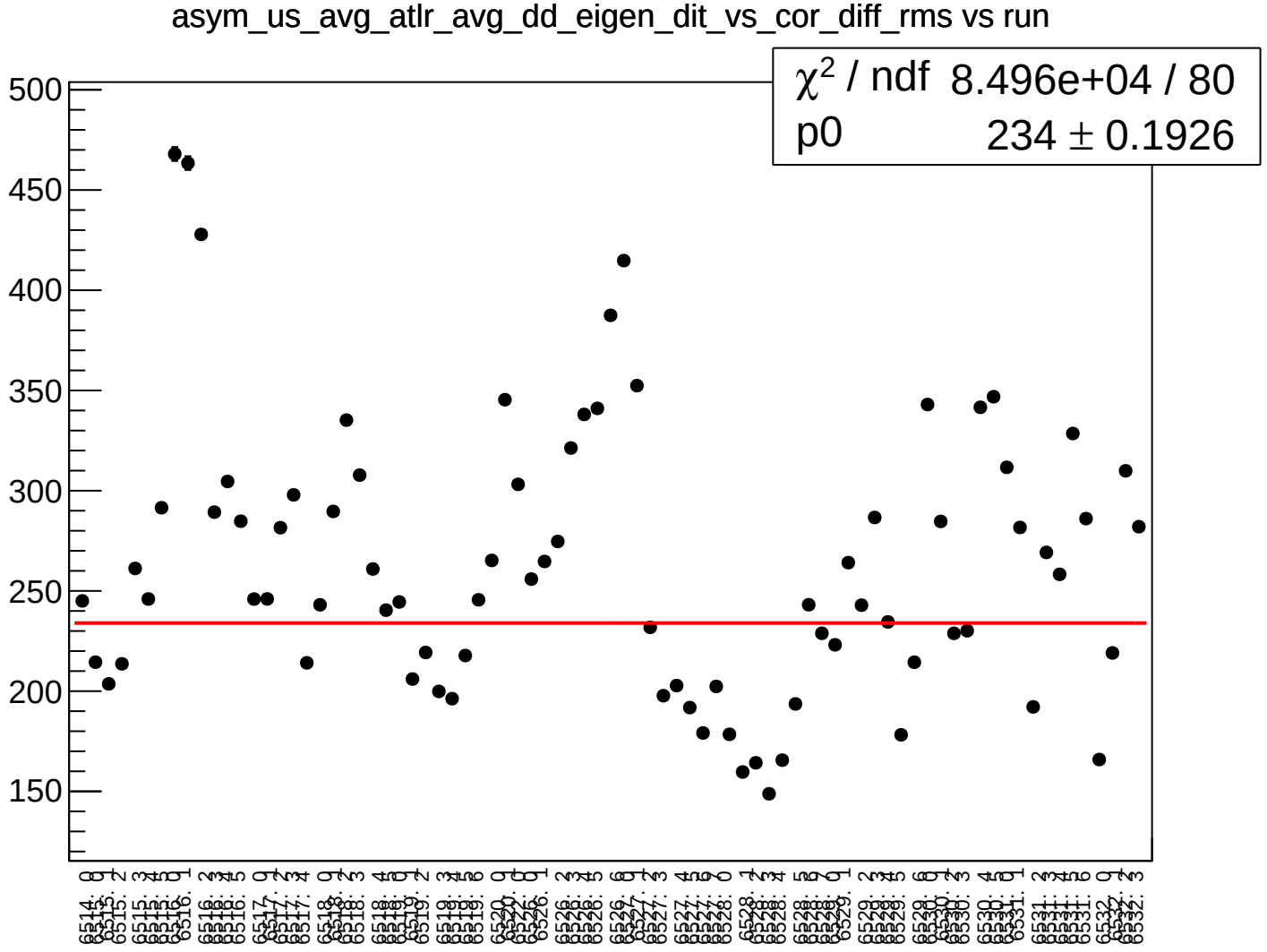

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.497e+04 / 80
p0 234 ± 0.1926
500
450
400
350
300
250
200
150

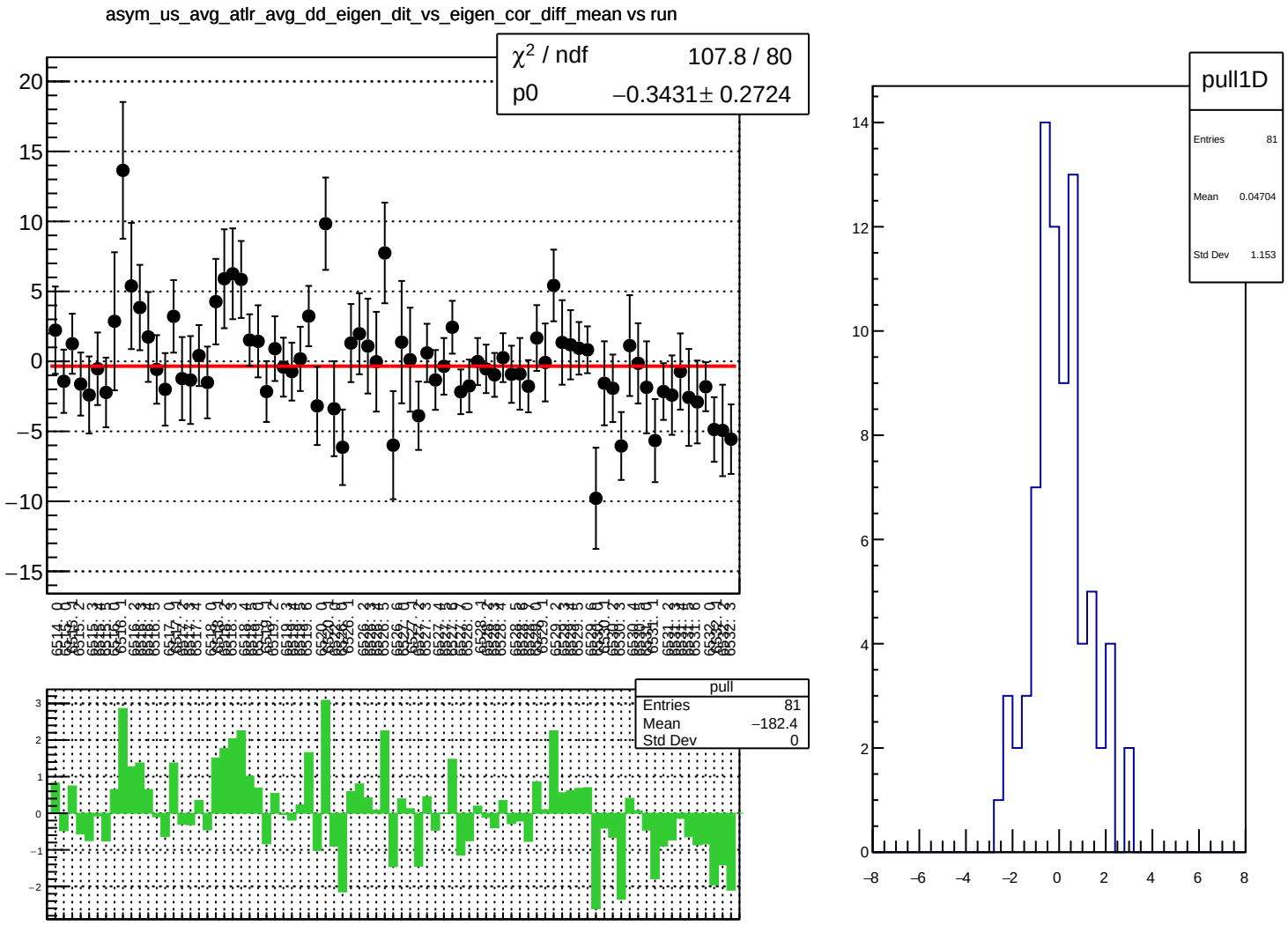

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.22 / 80
p0 −9.086e−06 ± 1.16e−05
pull
Entries 81
Mean −49.93
Std Dev 0

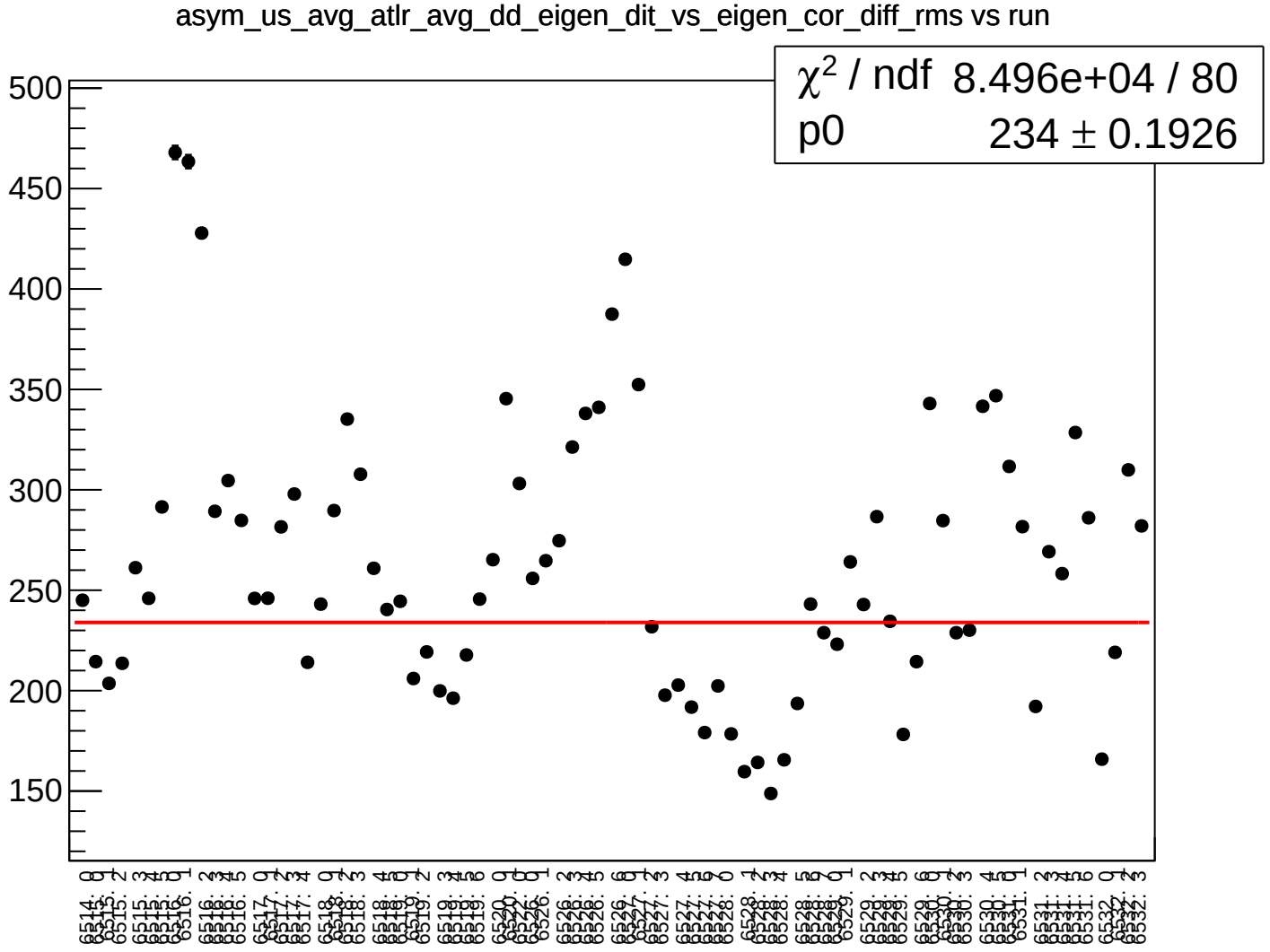

pull1D
Entries 81
Mean 0.0063
Std Dev 1.073

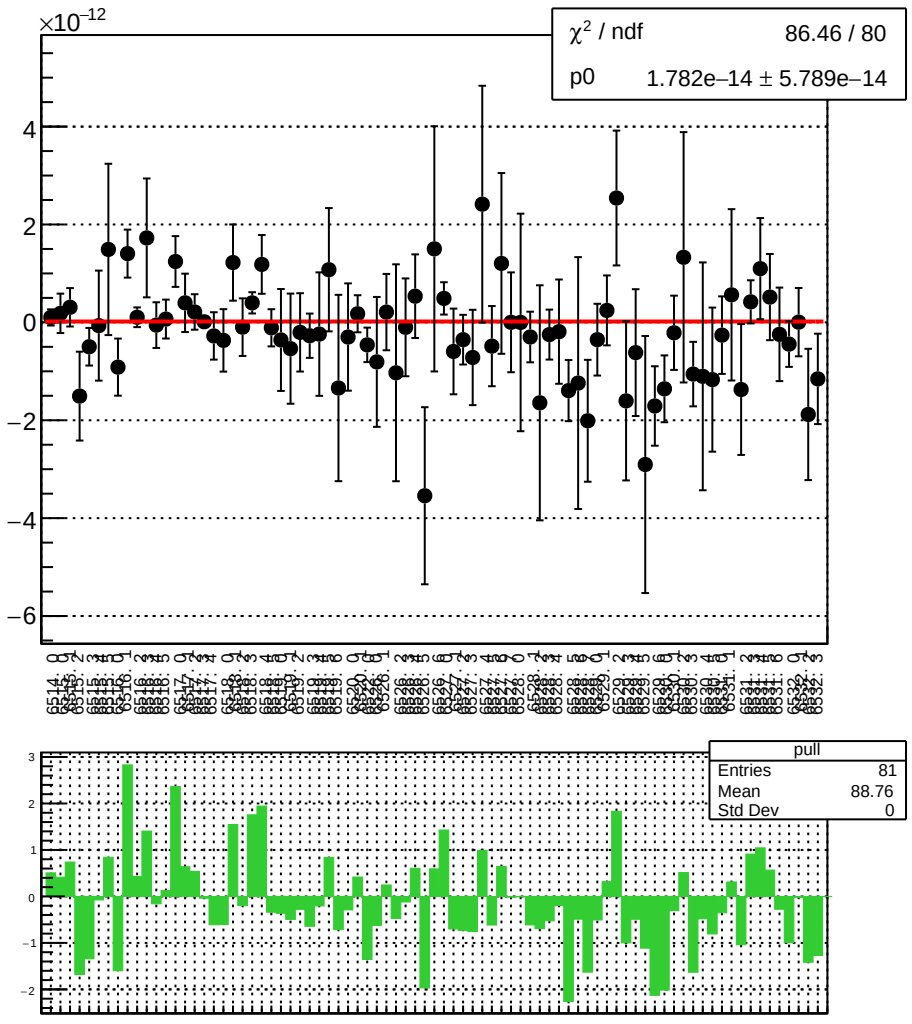

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.349e+04 / 80
p0 0.0101 ± 8.202e−06
0.013
0.012
0.011
0.01
0.009
0.008

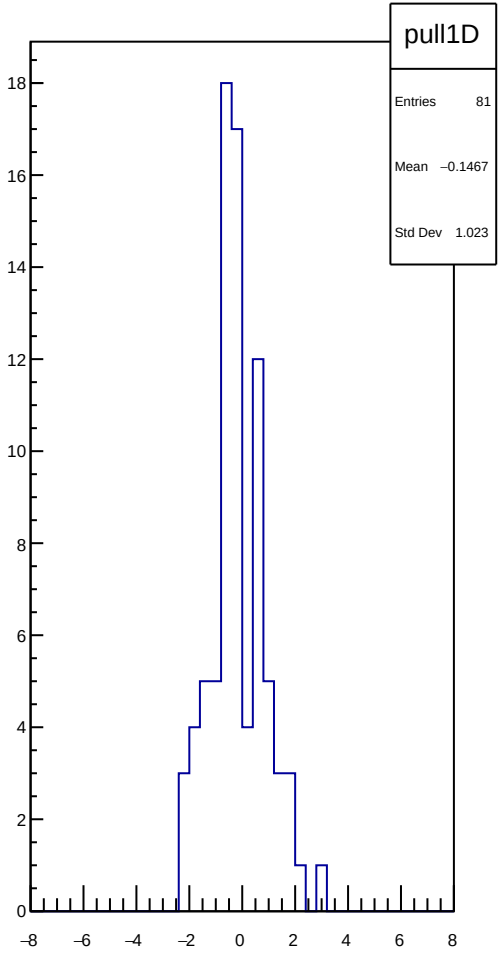

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 107.8 / 80
p0 −0.3431± 0.2724
pull
Entries 81
Mean −182.4
Std Dev 0
pull1D
Entries 81
Mean 0.04704
Std Dev 1.153

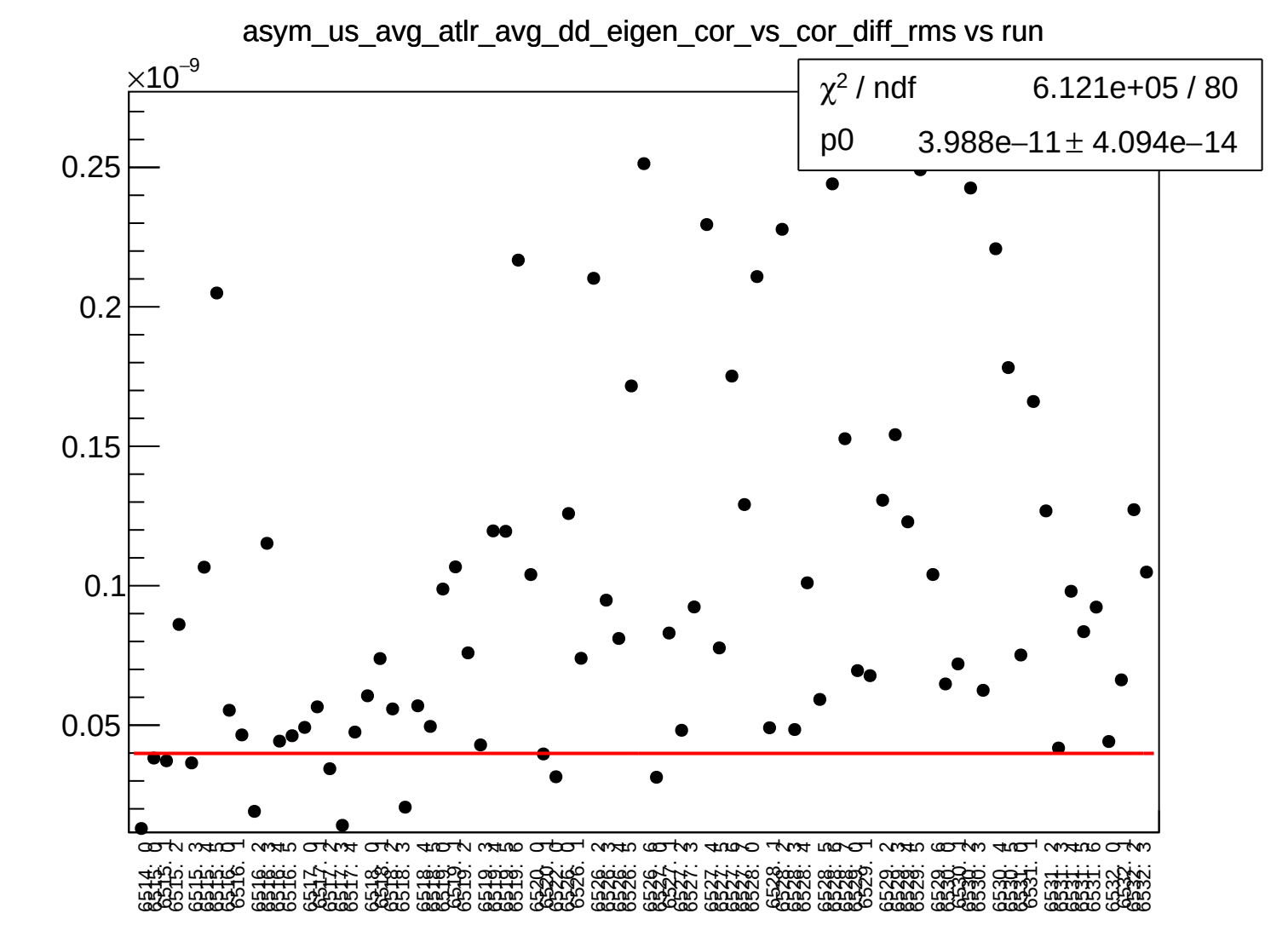

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.496e+04 / 80
p0 234 ± 0.1926
500
450
400
350
300
250
200
150

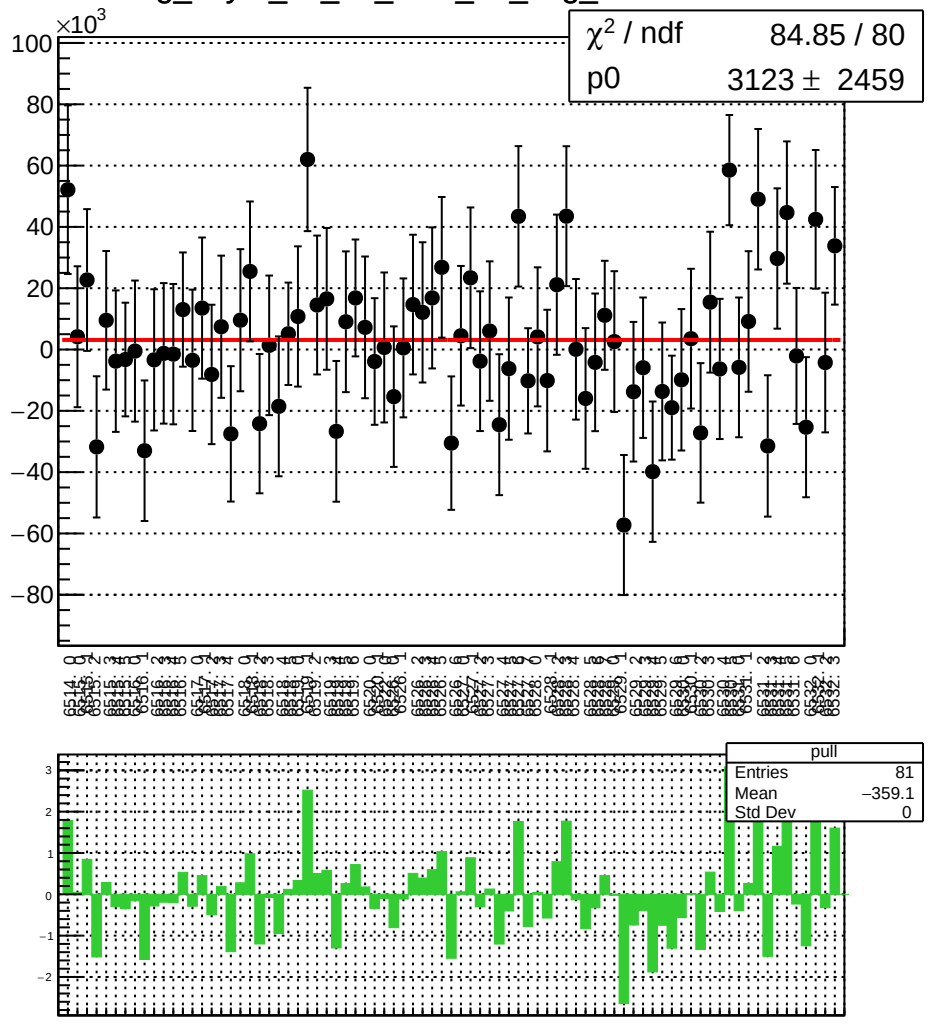

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.8 / 80
p0 −0.3431± 0.2724
pull
Entries 81
Mean −182.4
Std Dev 0
pull1D
Entries 81
Mean 0.04704
Std Dev 1.153

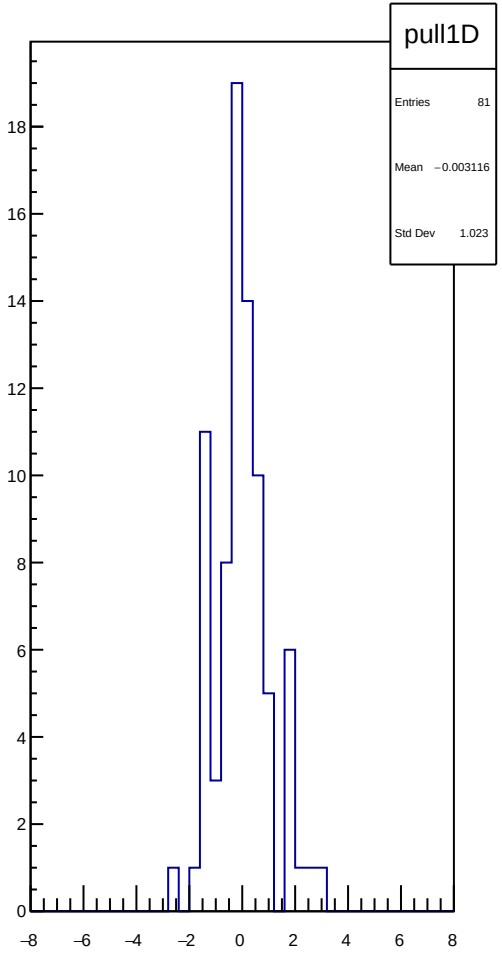

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.496e+04 / 80
p0 234 ± 0.1926
500
450
400
350
300
250
200
150

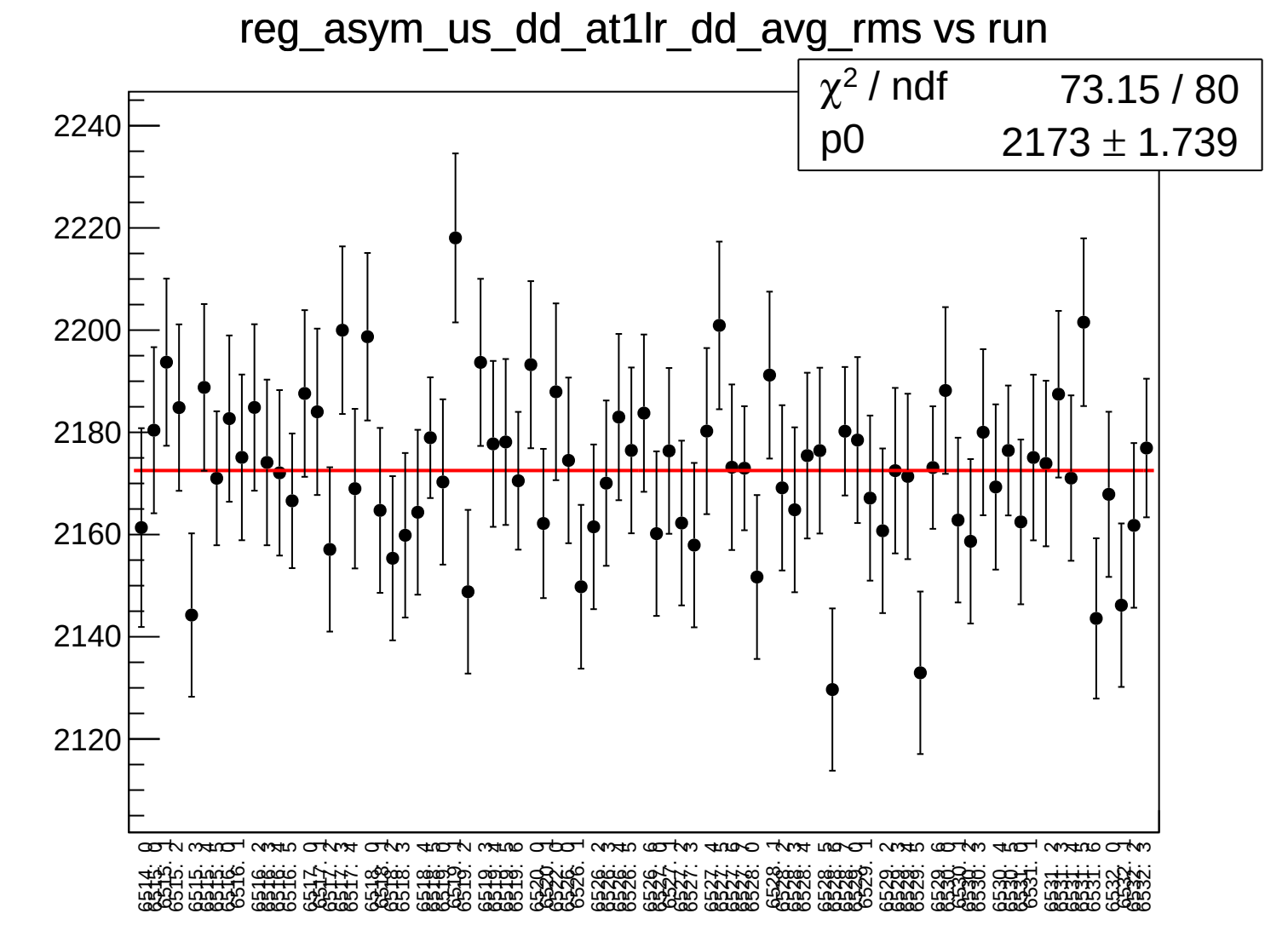

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.46 / 80
p0 1.782e−14 ± 5.789e−14
pull
Entries 81
Mean 88.76
Std Dev 0

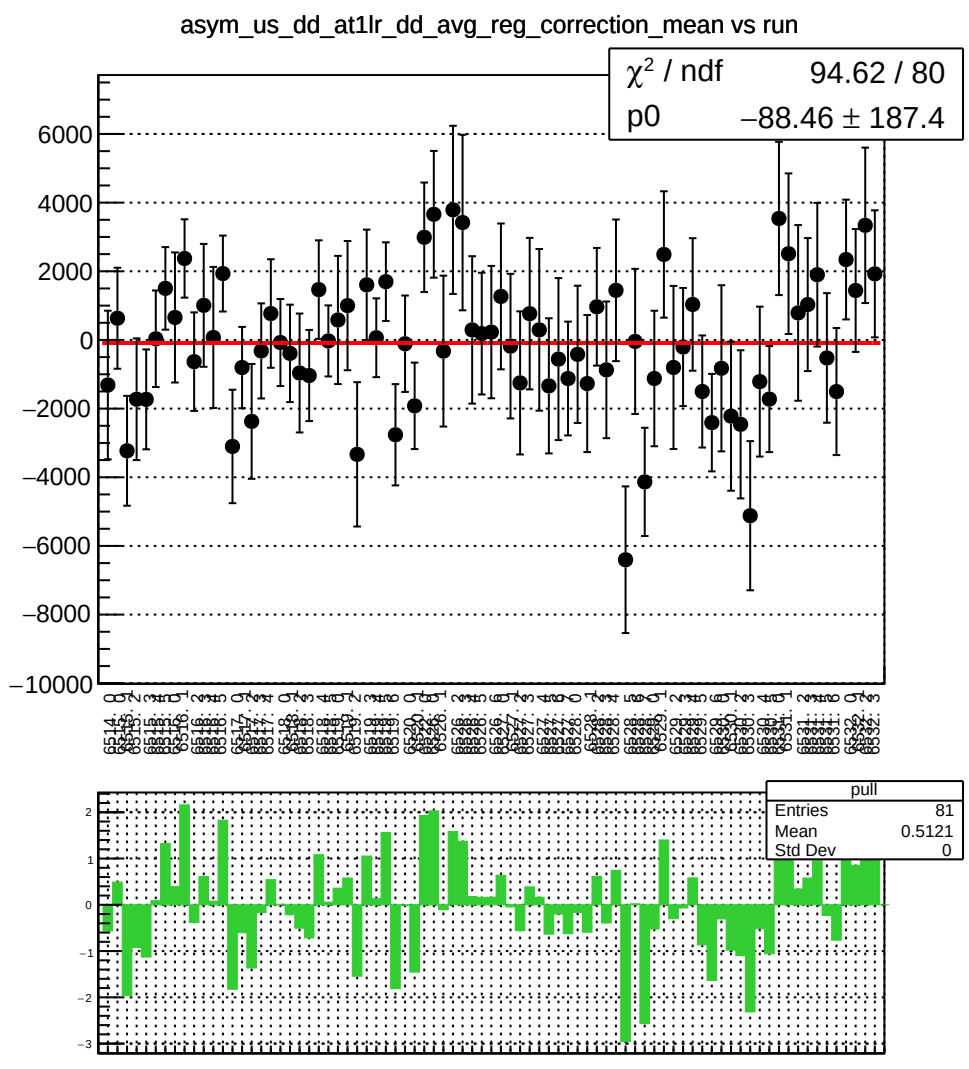

pull1D
Entries 81
Mean −0.1467
Std Dev 1.023

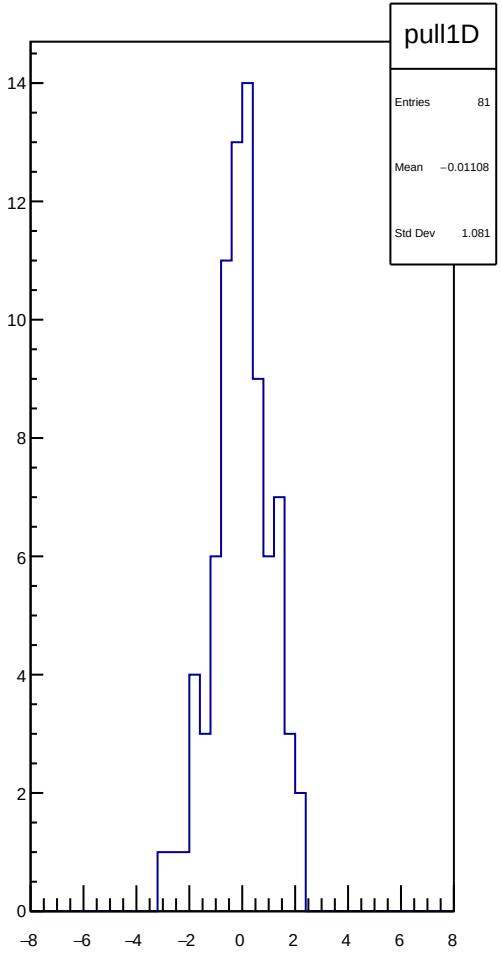

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.121e+05 / 80
p0 3.988e−11 ± 4.094e−14
0.25
0.2
0.15
0.1
0.05

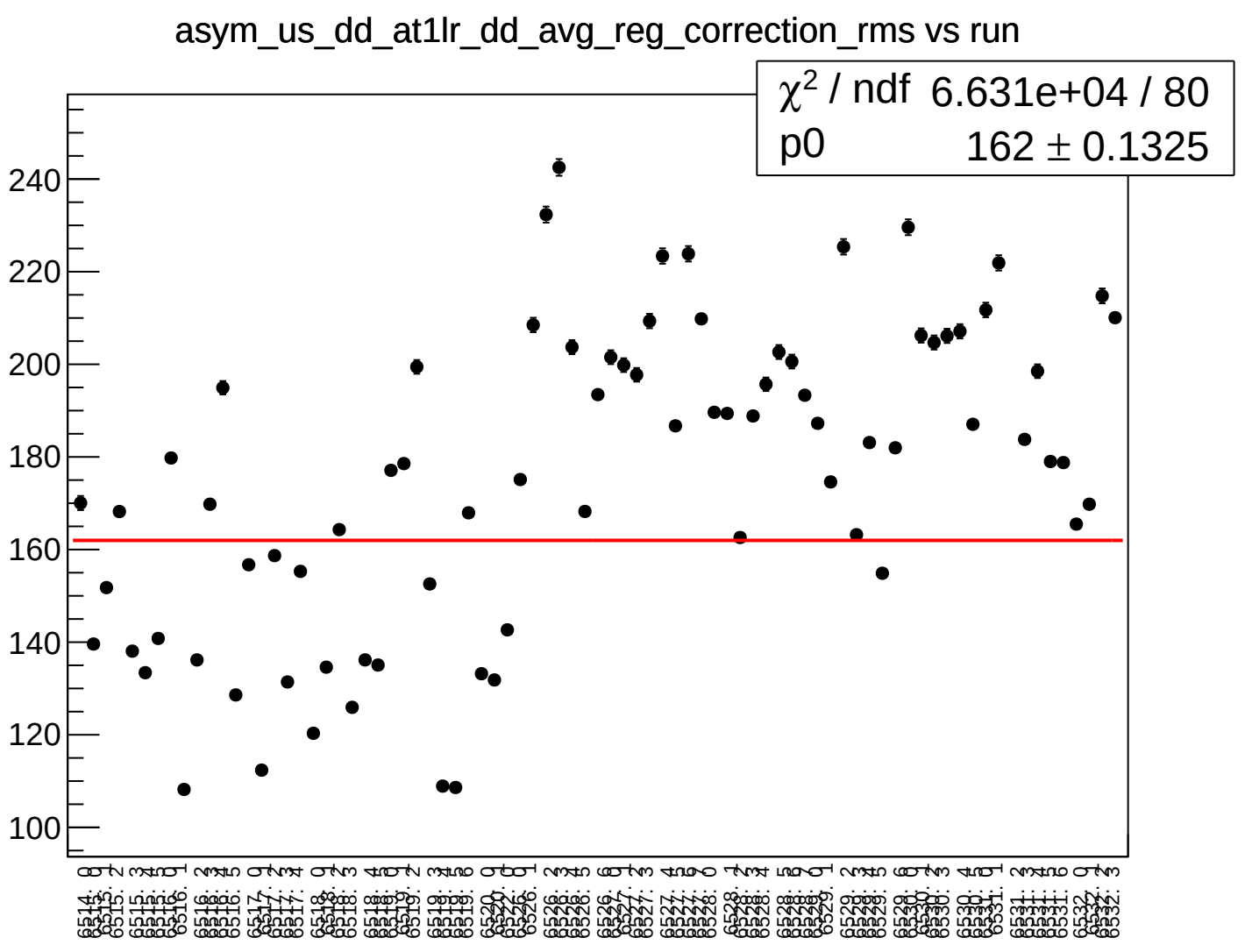

reg_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 84.85 / 80
p0 3123 ± 2459
pull
Entries 81
Mean −359.1
Std Dev 0

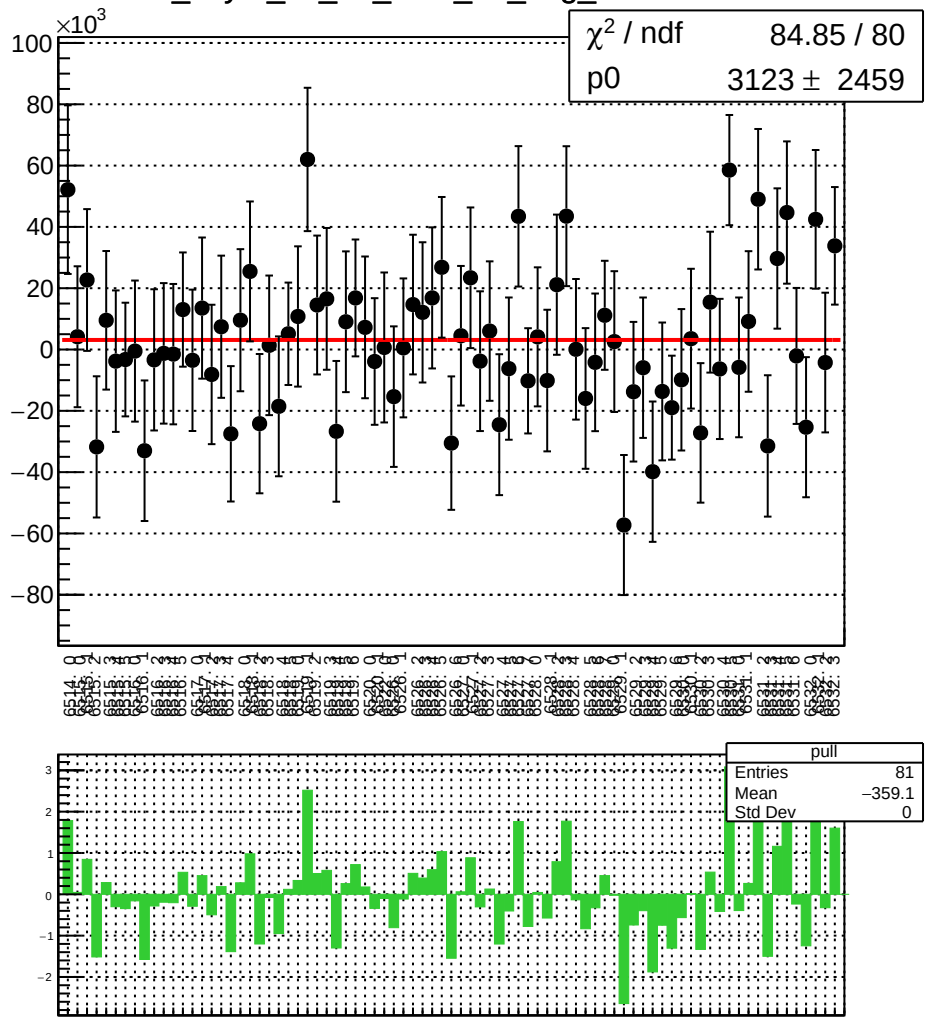

pull1D
Entries 81
Mean −0.003116
Std Dev 1.023

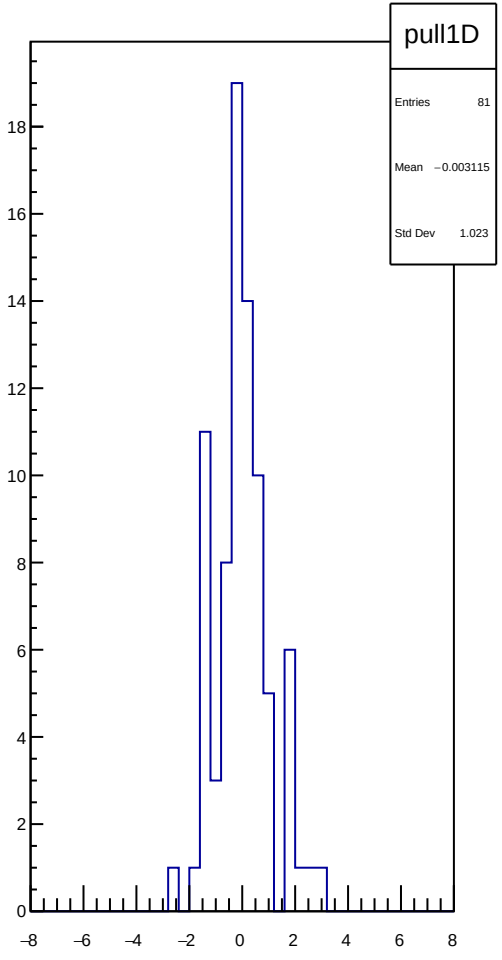

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 73.15 / 80
p0 2173 ± 1.739
2240
2220
2200
2180
2160
2140
2120

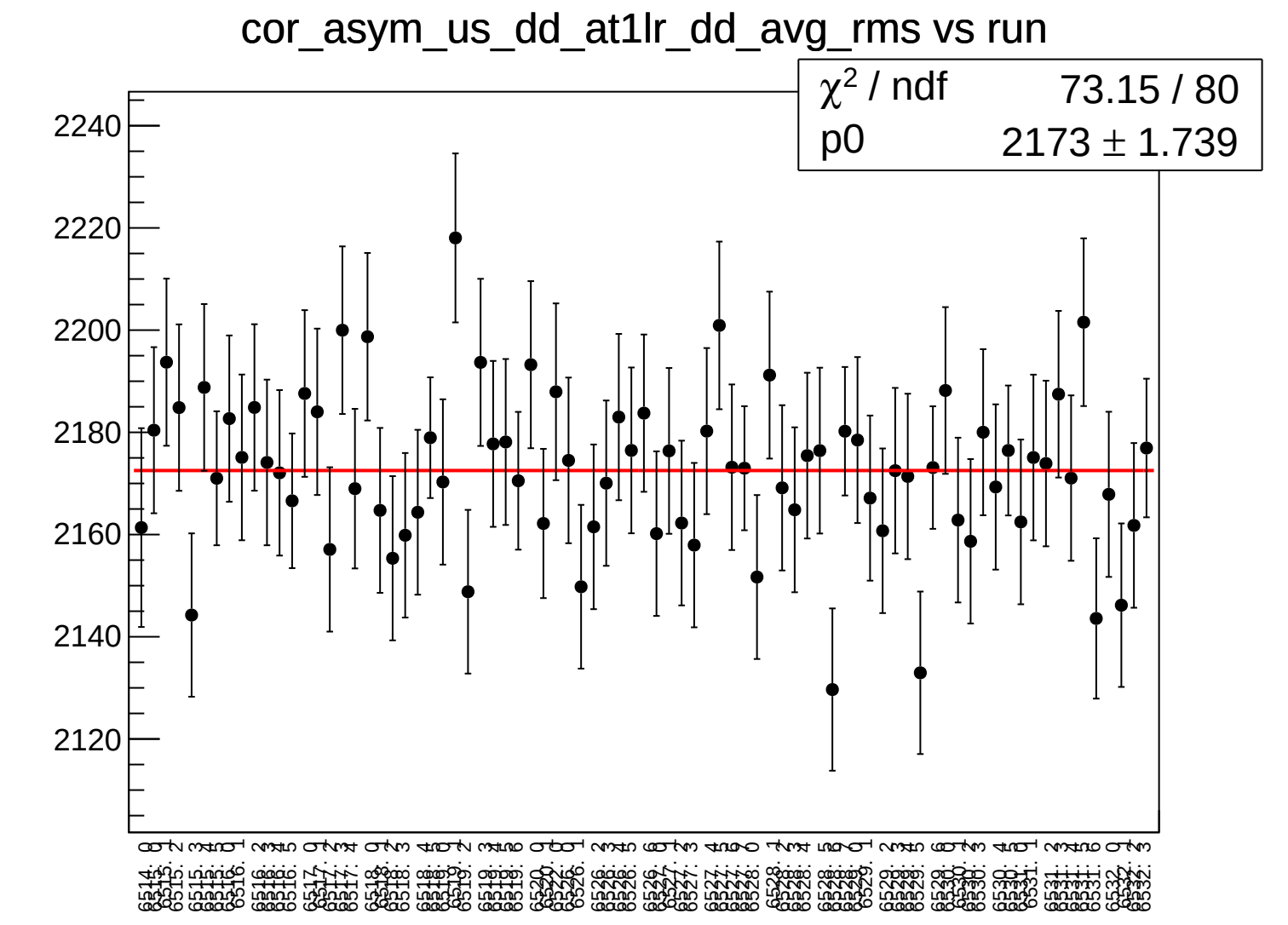

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 94.62 / 80
p0 −88.46 ± 187.4
pull
Entries 81
Mean 0.5121
Std Dev 0

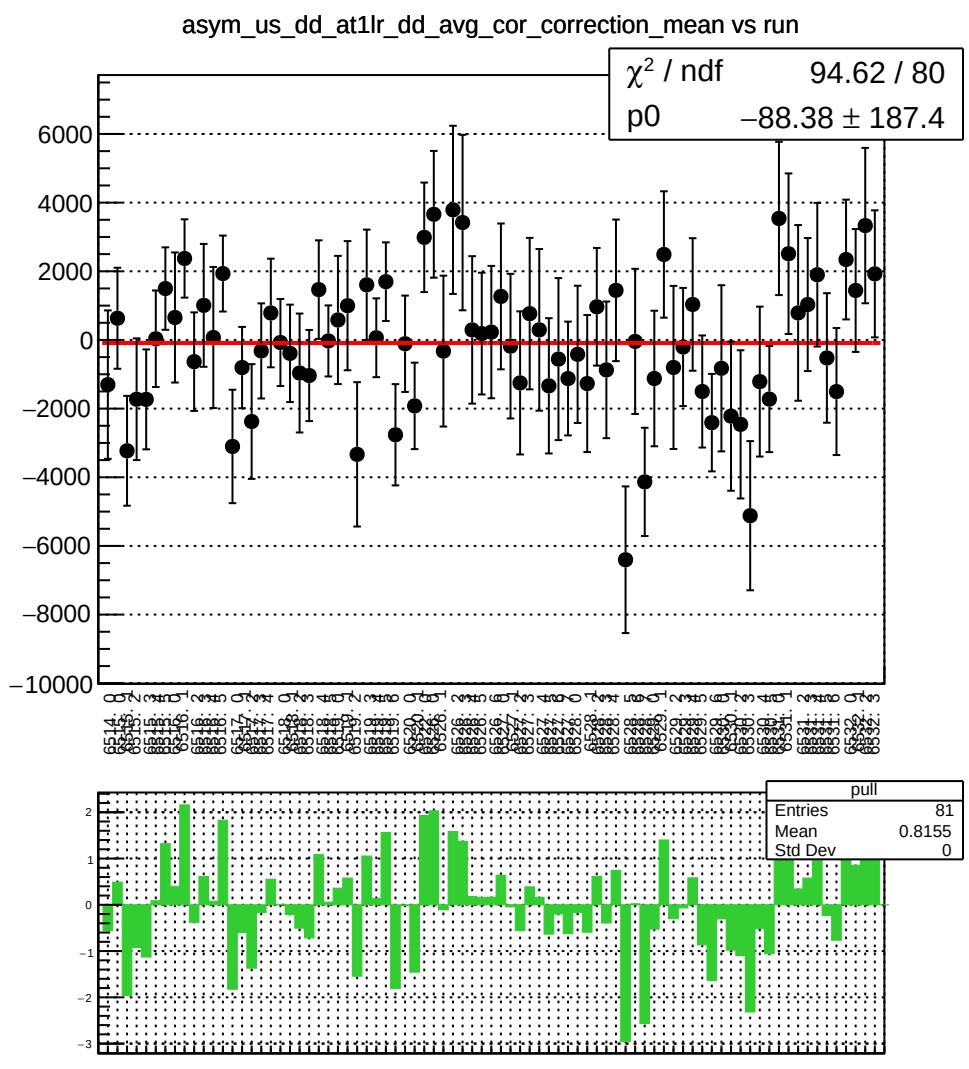

pull1D
Entries 81
Mean −0.01108
Std Dev 1.081

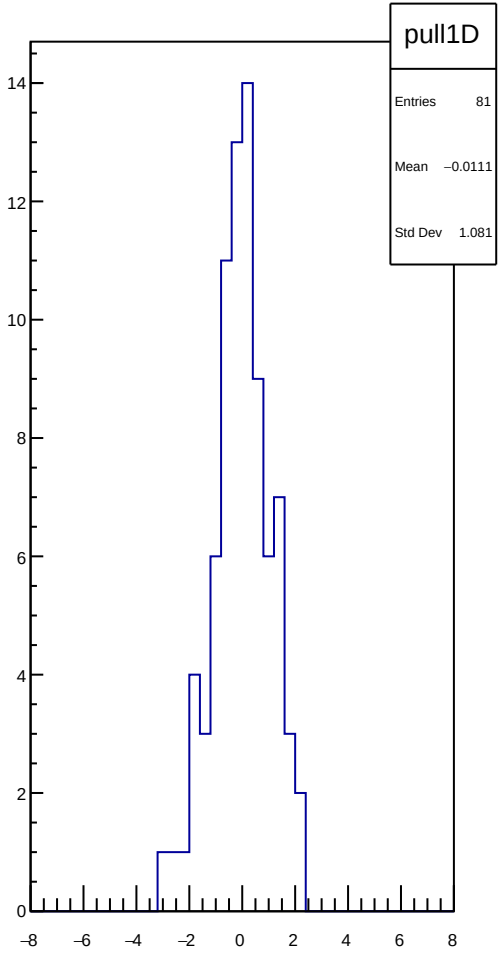

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 6.631e+04 / 80
p0 162 ± 0.1325
240
220
200
180
160
140
120
100

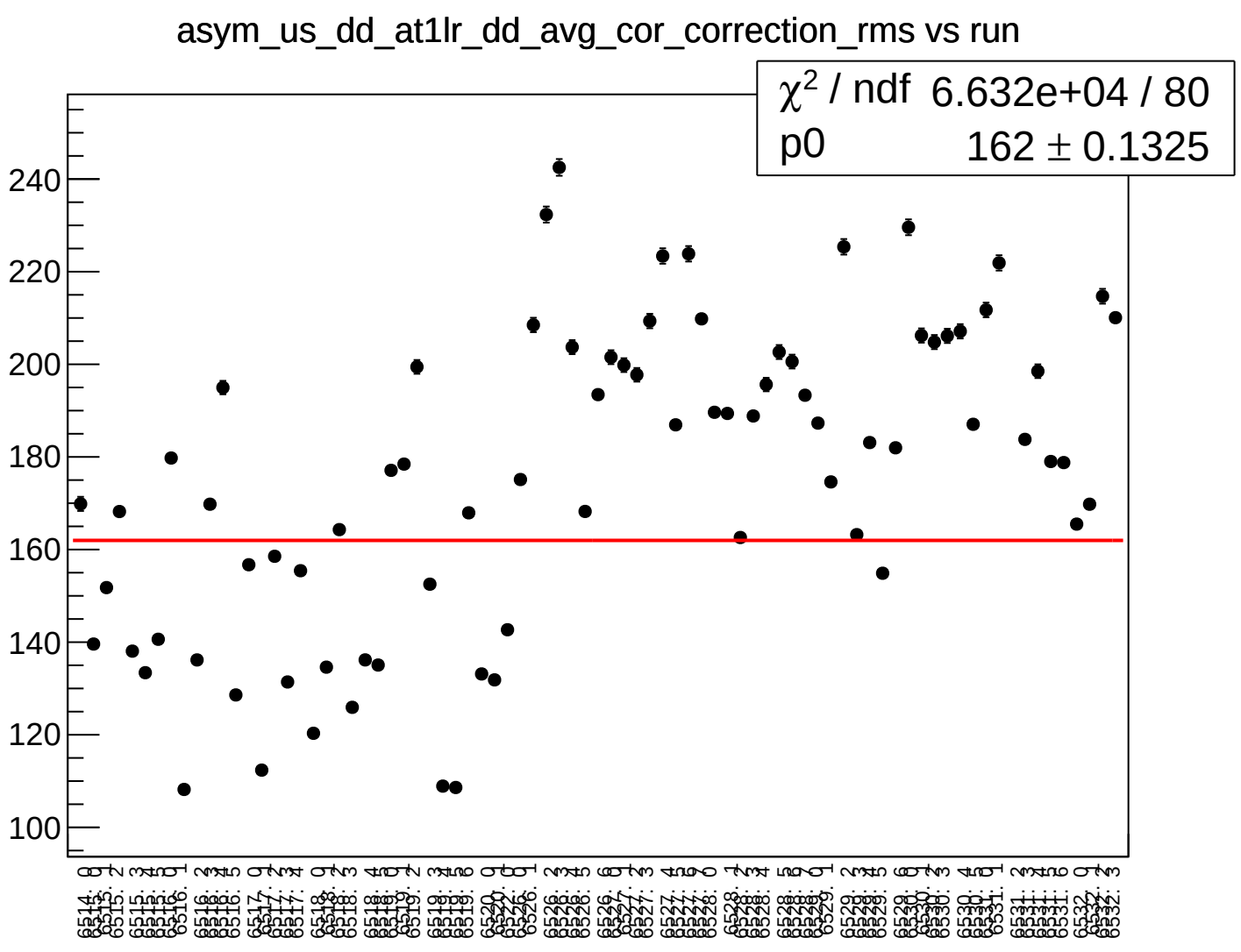

cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 84.85 / 80
p0 3123 ± 2459
pull
Entries 81
Mean −359.1
Std Dev 0

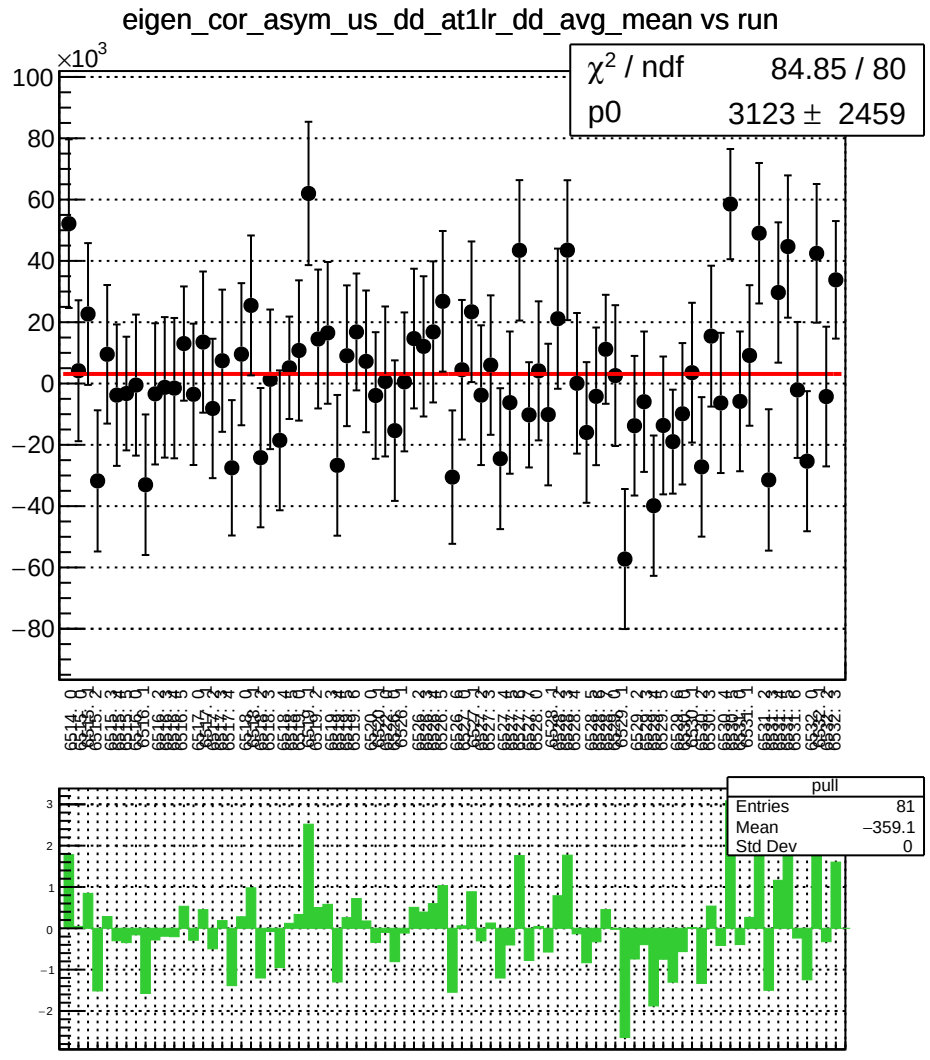

pull1D
Entries 81
Mean −0.003115
Std Dev 1.023

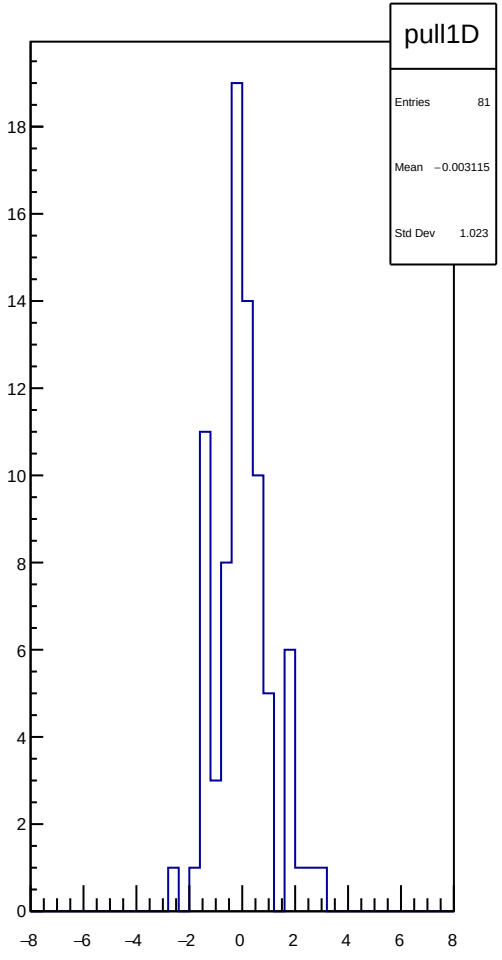

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 73.15 / 80
p0 2173 ± 1.739
2240
2220
2200
2180
2160
2140
2120

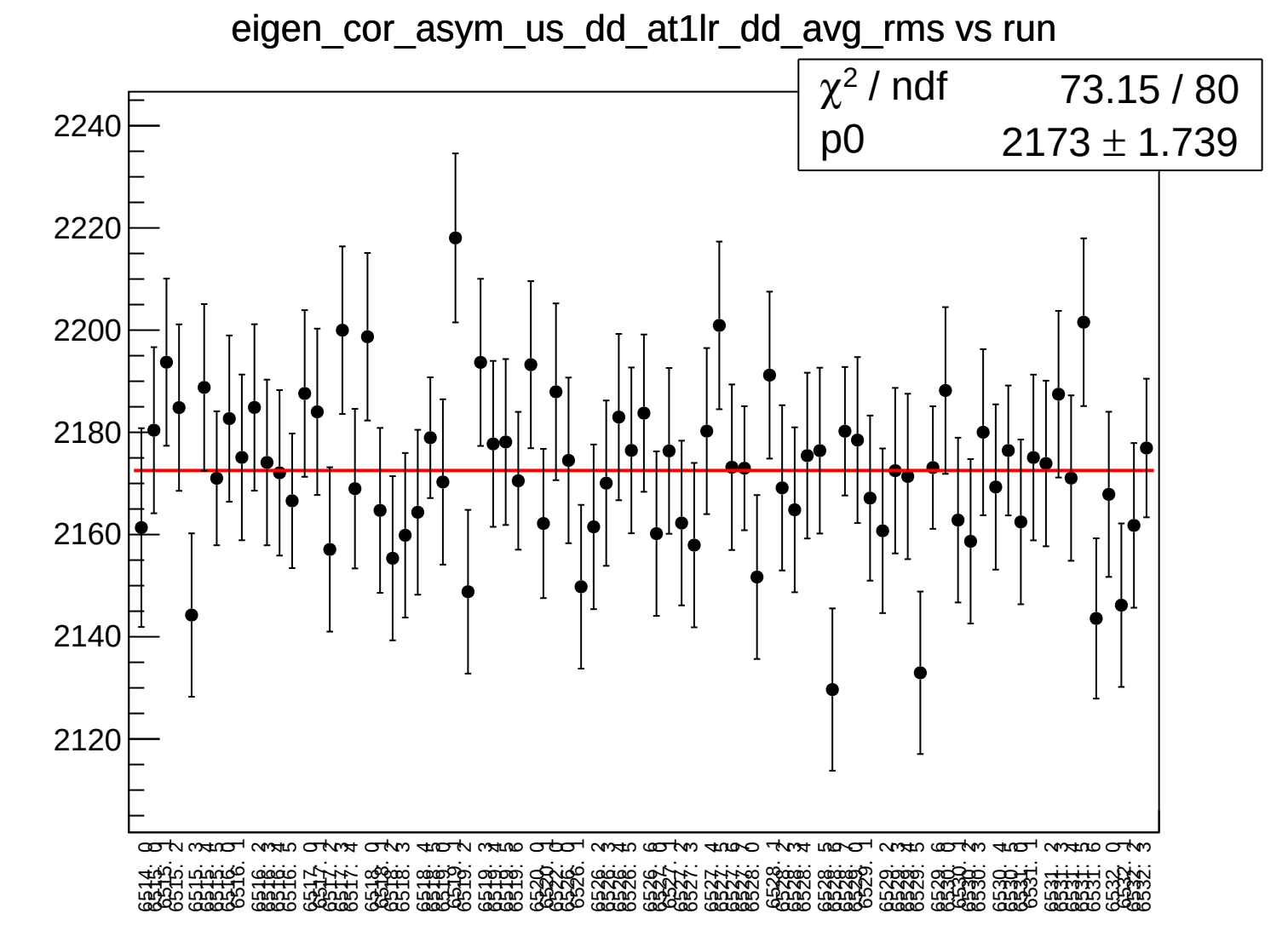

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 94.62 / 80
p0 −88.38 ± 187.4
pull
Entries 81
Mean 0.8155
Std Dev 0

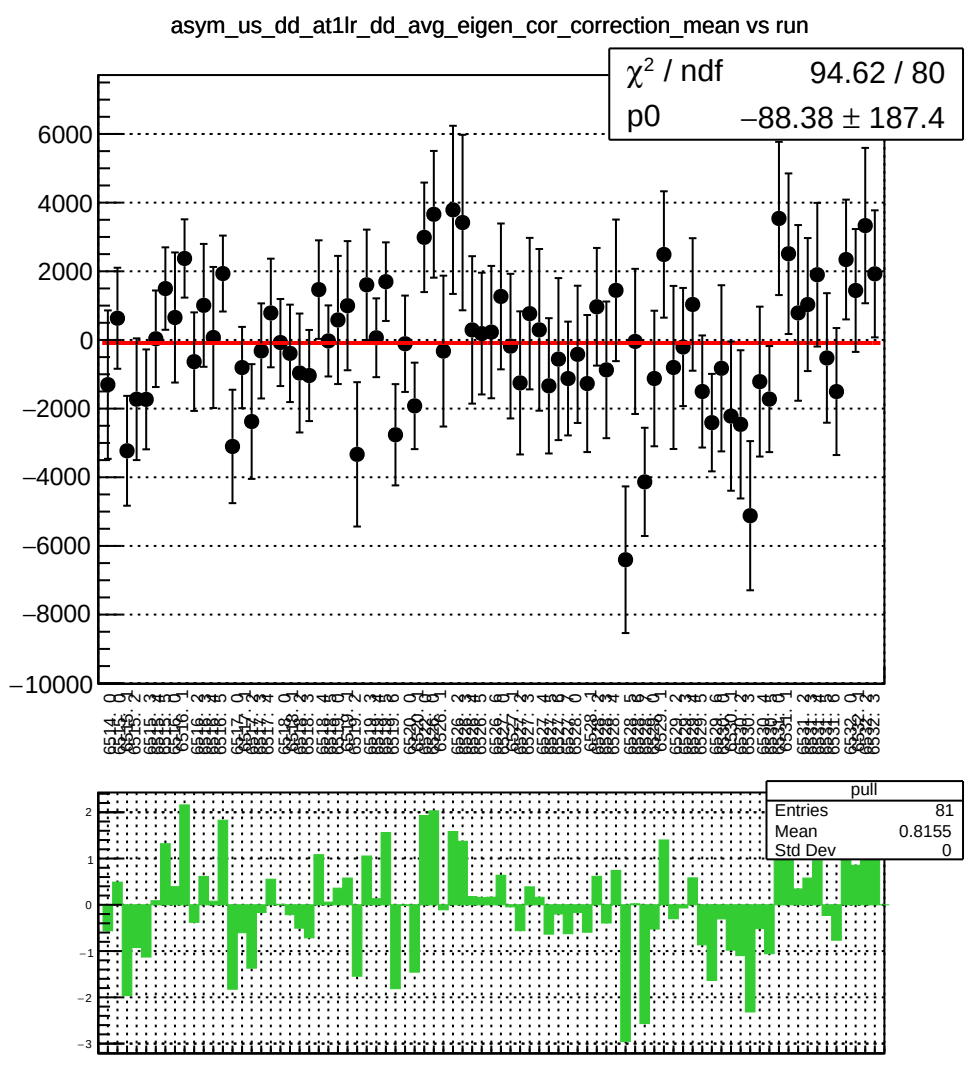

pull1D
Entries 81
Mean −0.0111
Std Dev 1.081

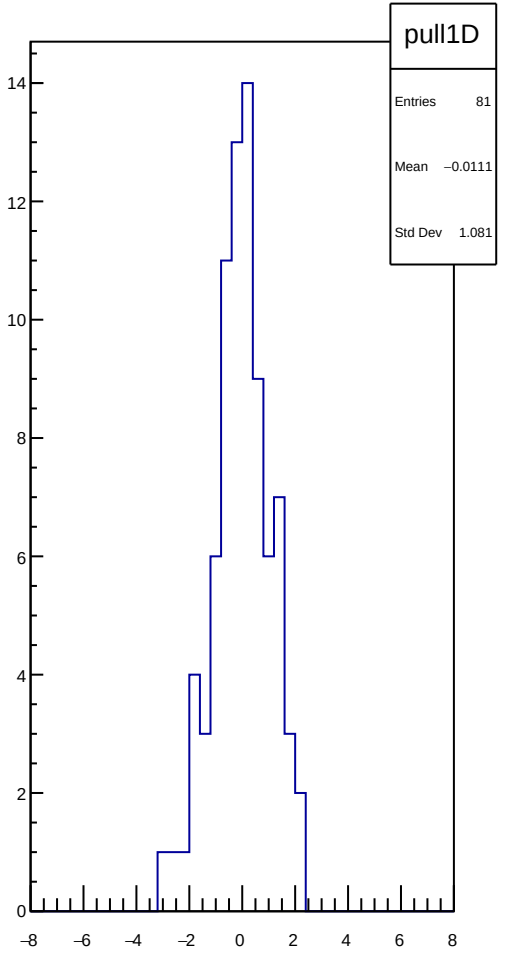

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ² / ndf 6.632e+04 / 80
p0 162 ± 0.1325
240
220
200
180
160
140
120
100

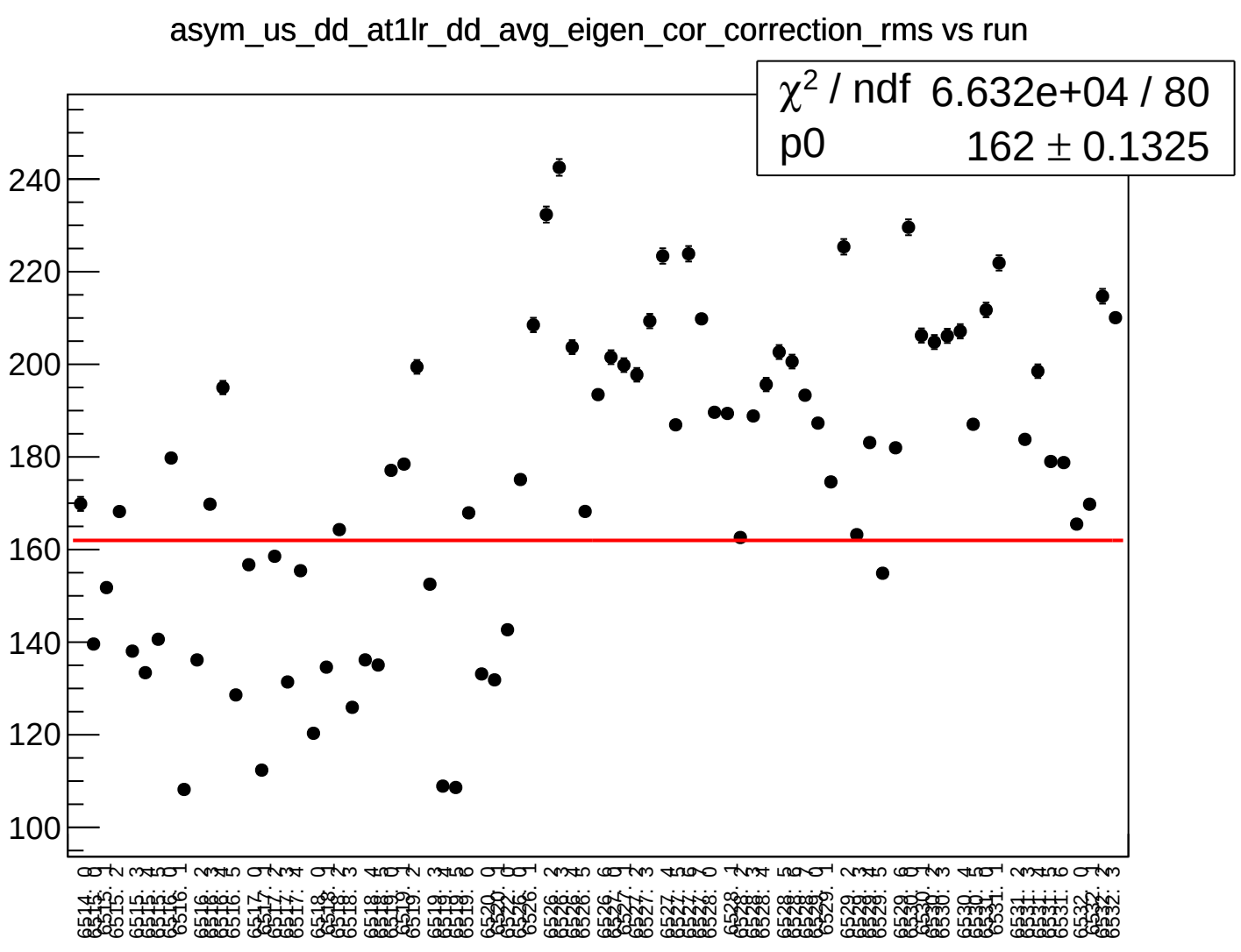

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 84.85 / 80
p0 3123 ± 2459
×10³
pull
Entries 81
Mean −359.1
Std Dev 0

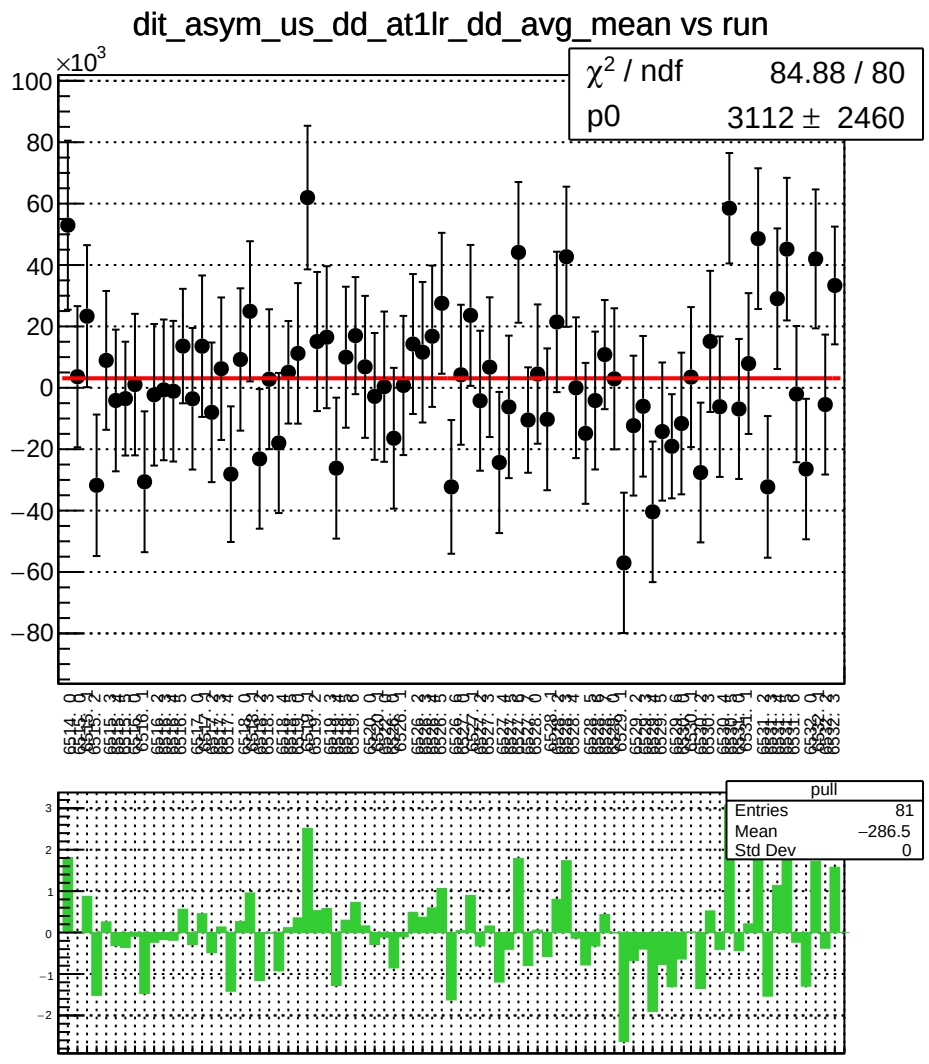

pull1D
Entries 81
Mean −0.003115
Std Dev 1.023

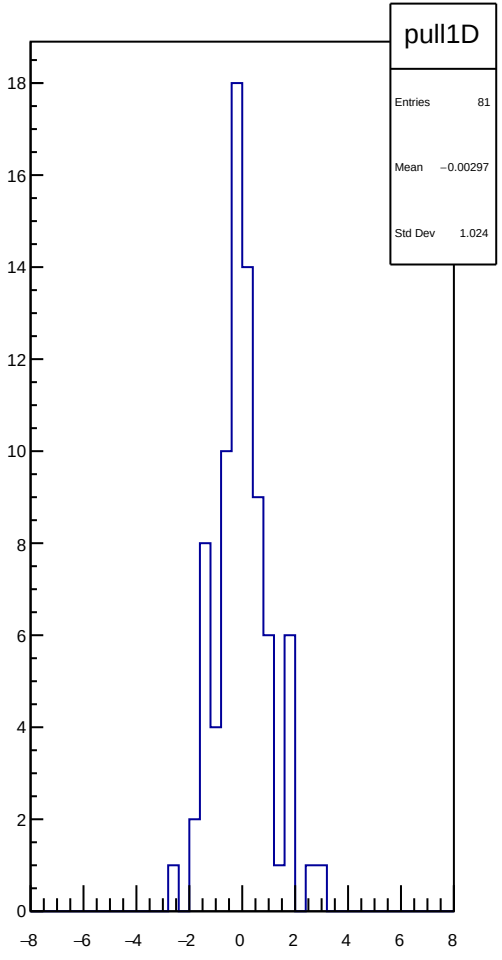

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 73.15 / 80
p0 2173 ± 1.739
2240
2220
2200
2180
2160
2140
2120

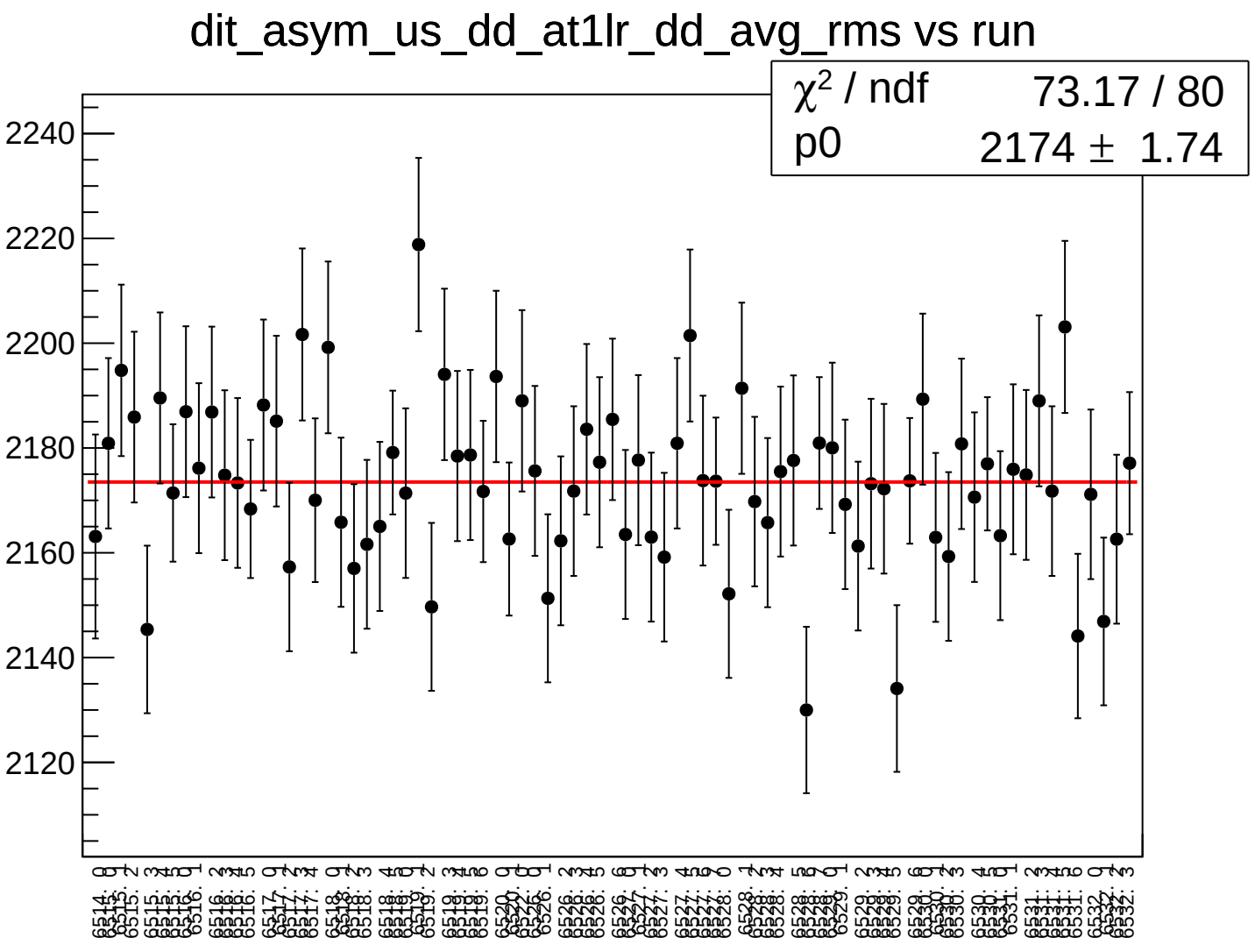

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 94.62 / 80
p0 −88.38 ± 187.4
pull
Entries 81
Mean 0.8155
Std Dev 0

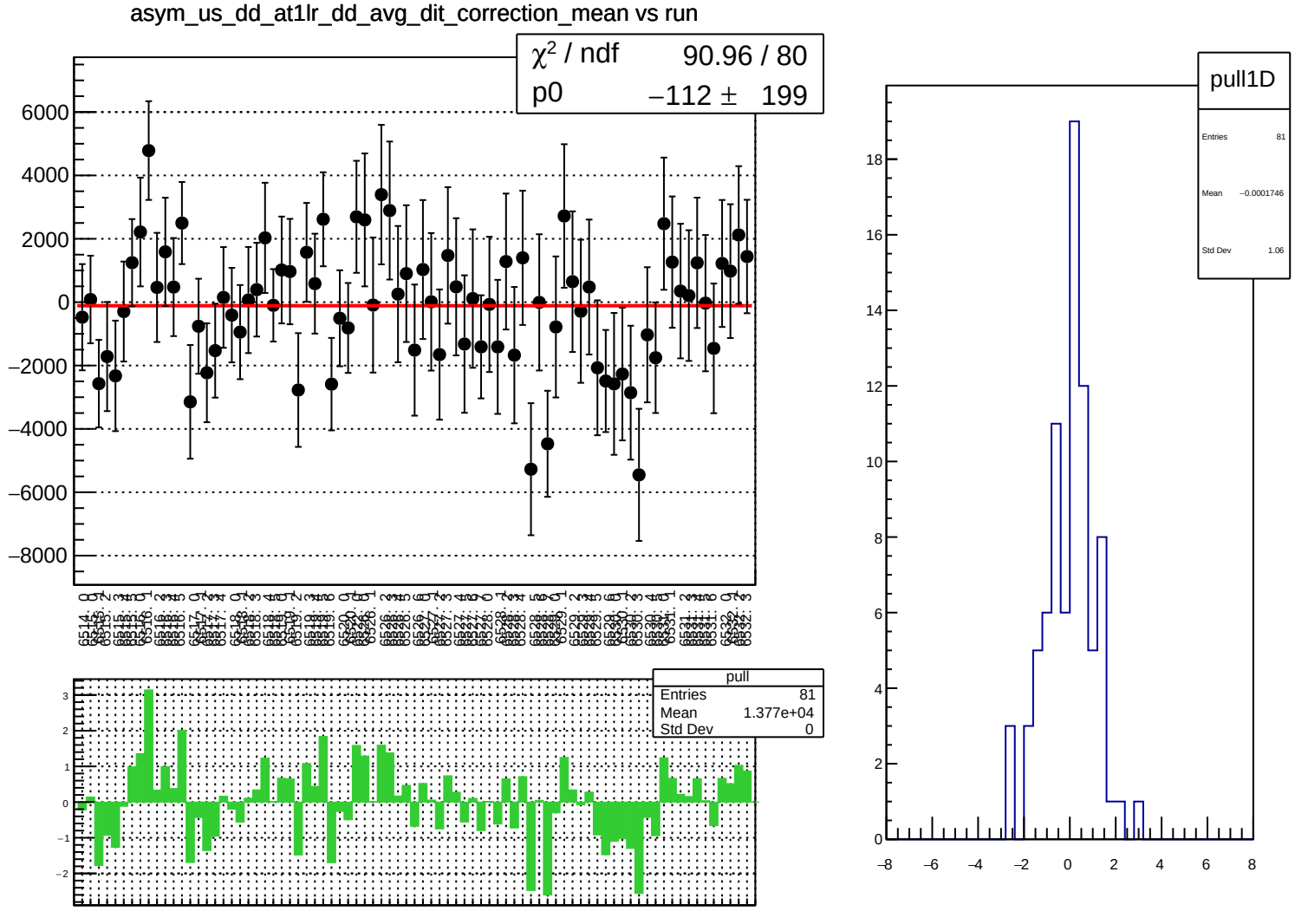

pull1D
Entries 81
Mean −0.0111
Std Dev 1.081

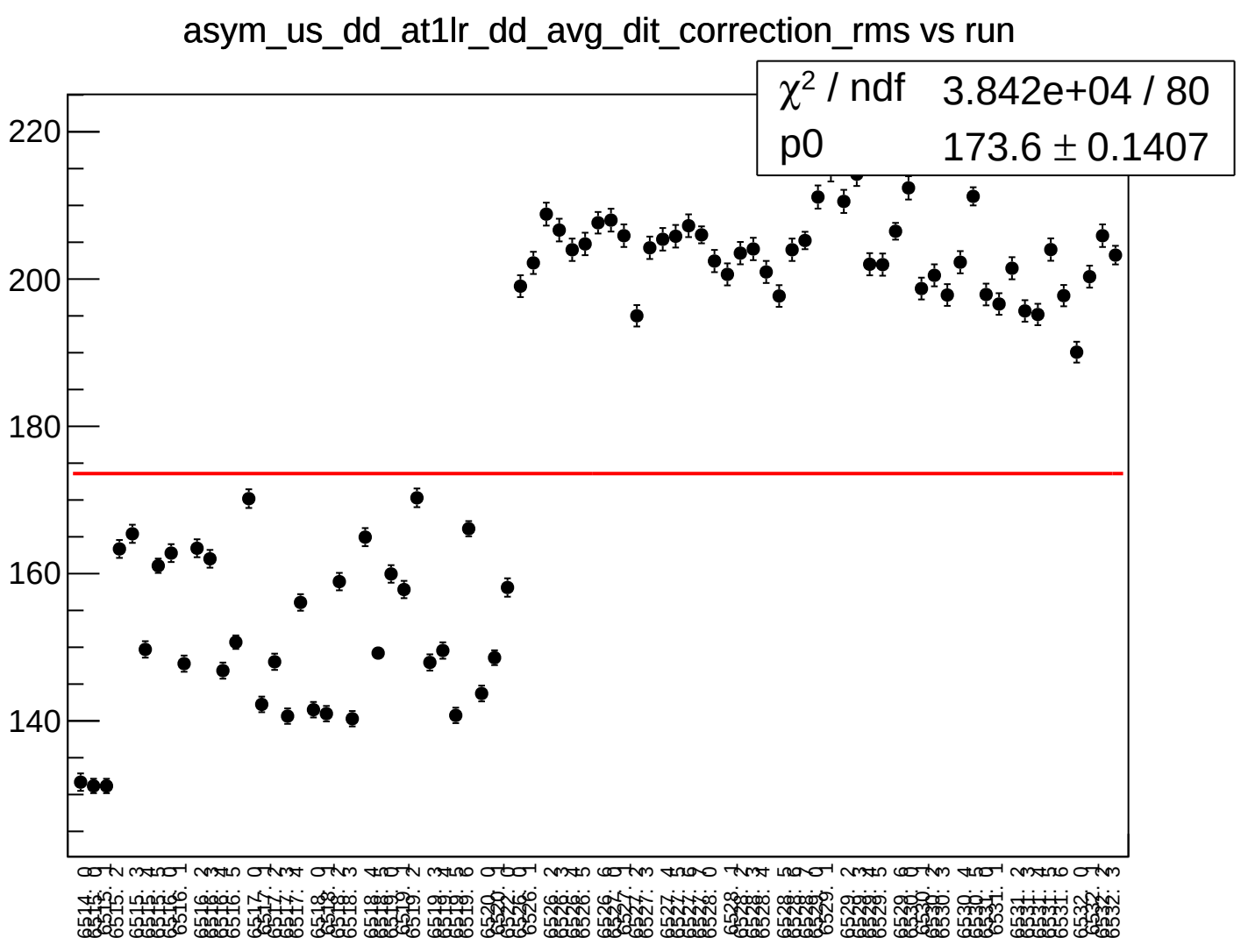

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 6.632e+04 / 80
p0 162 ± 0.1325
240
220
200
180
160
140
120
100

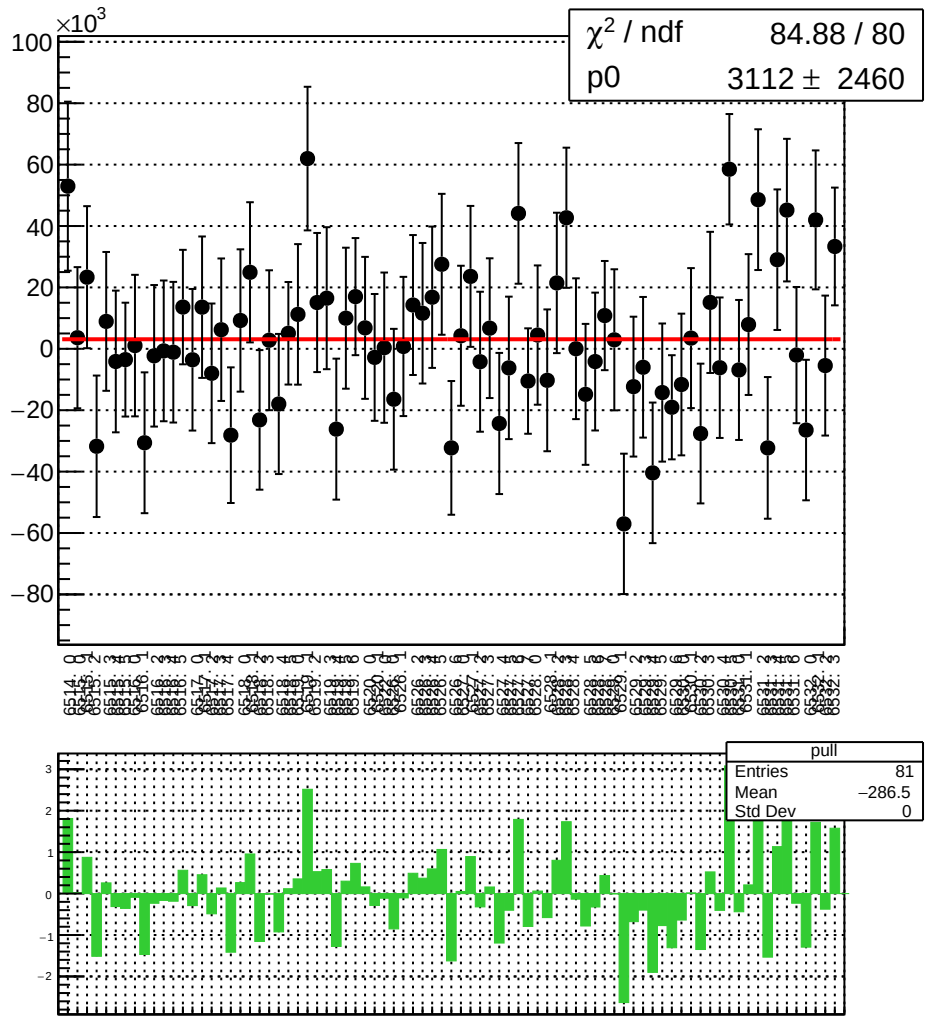

dit_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 84.88 / 80
p0 3112 ± 2460
pull
Entries 81
Mean −286.5
Std Dev 0

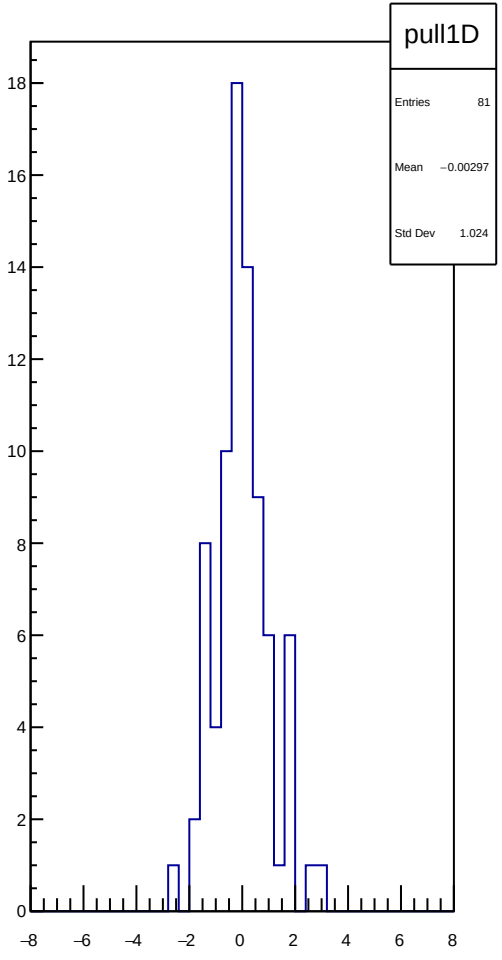

pull1D
Entries 81
Mean −0.00297
Std Dev 1.024

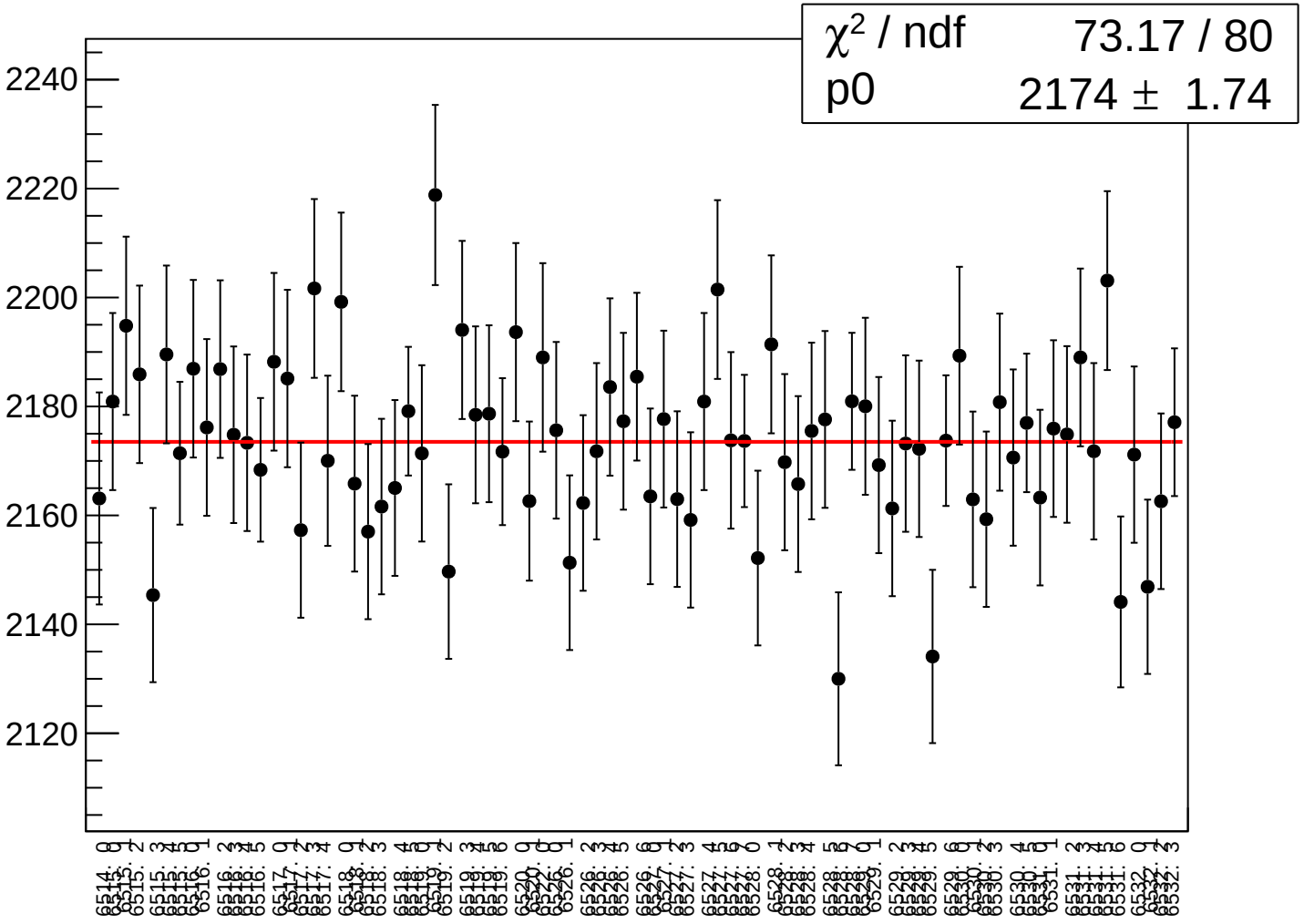

dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 73.17 / 80
p0 2174 ± 1.74
2240
2220
2200
2180
2160
2140
2120

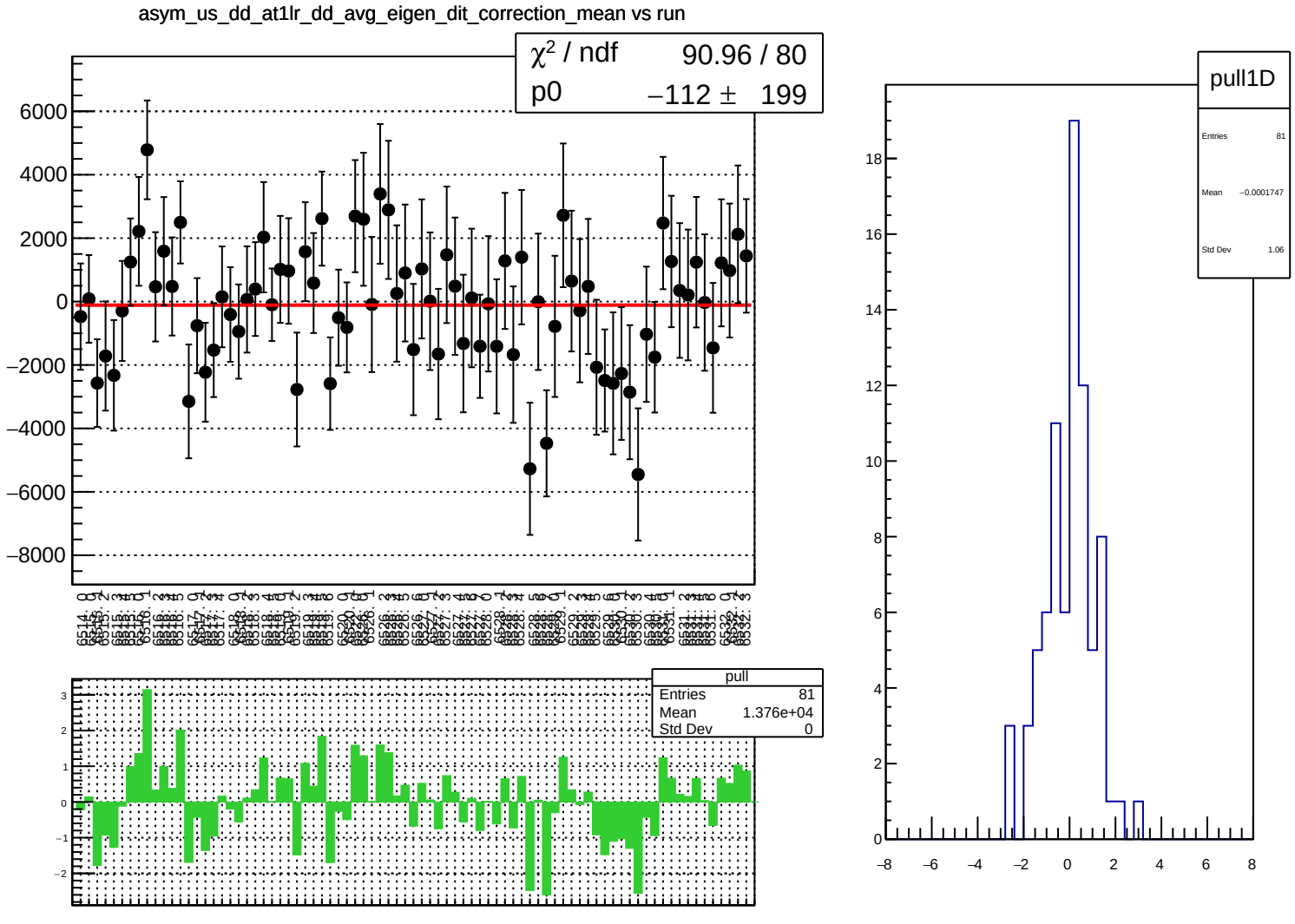

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 90.96 / 80
p0 −112 ± 199
pull
Entries 81
Mean 1.377e+04
Std Dev 0
pull1D
Entries 81
Mean −0.0001746
Std Dev 1.06

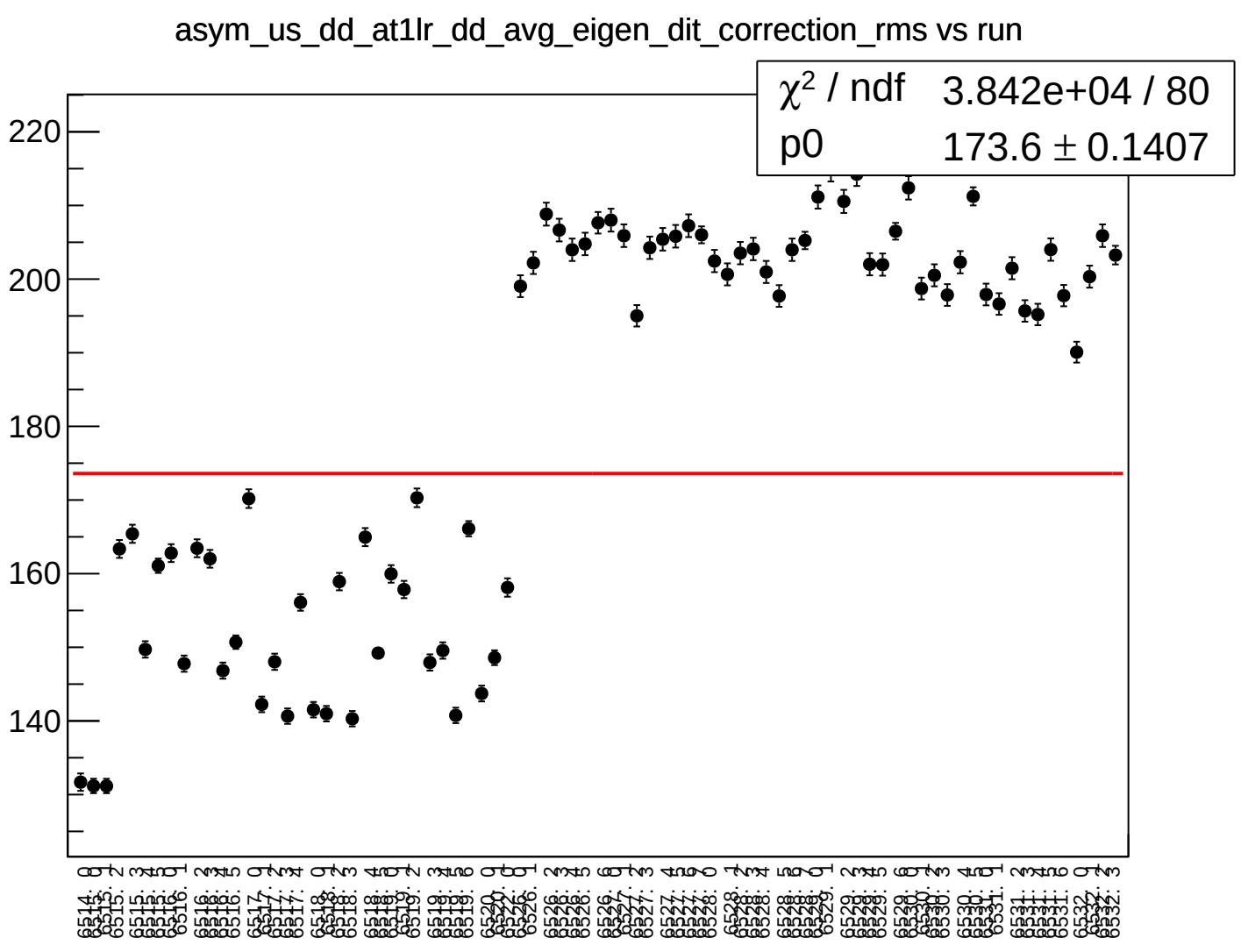

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 3.842e+04 / 80
p0 173.6 ± 0.1407
220
200
180
160
140

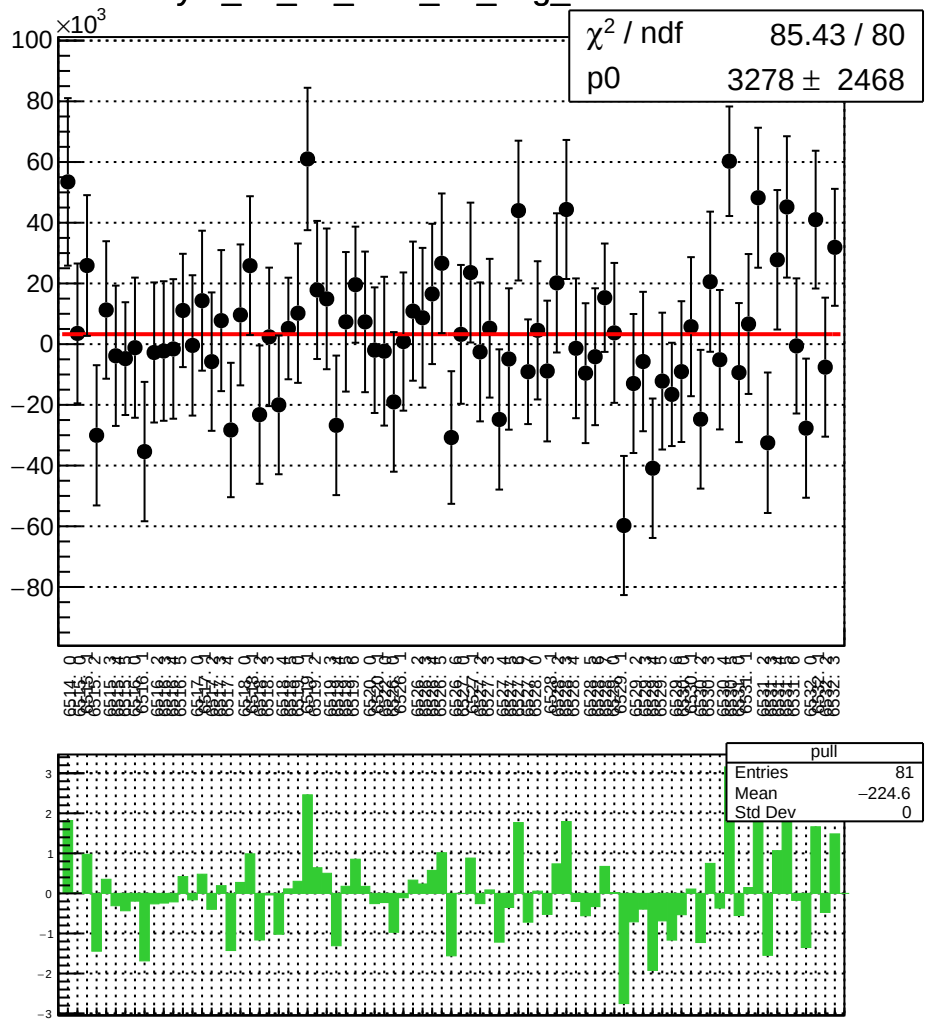

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 84.88 / 80
p0 3112 ± 2460
pull
Entries 81
Mean −286.5
Std Dev 0

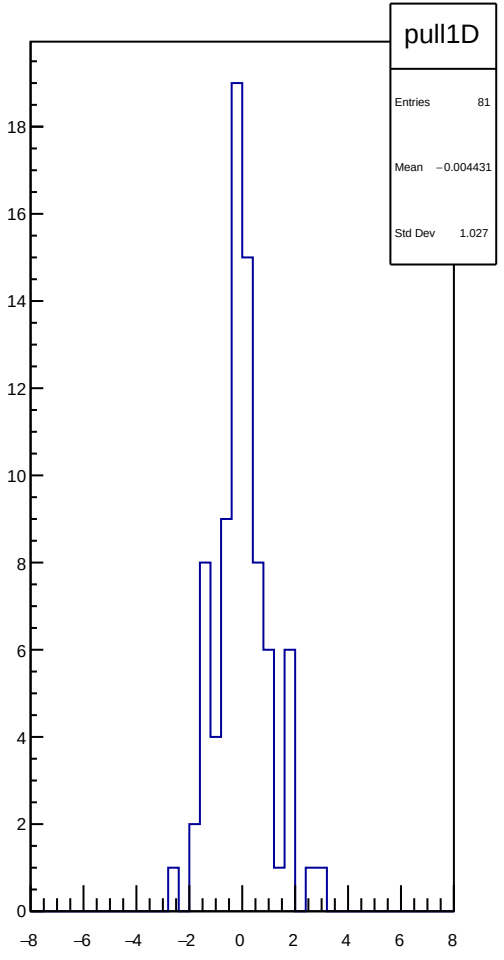

pull1D
Entries 81
Mean −0.00297
Std Dev 1.024

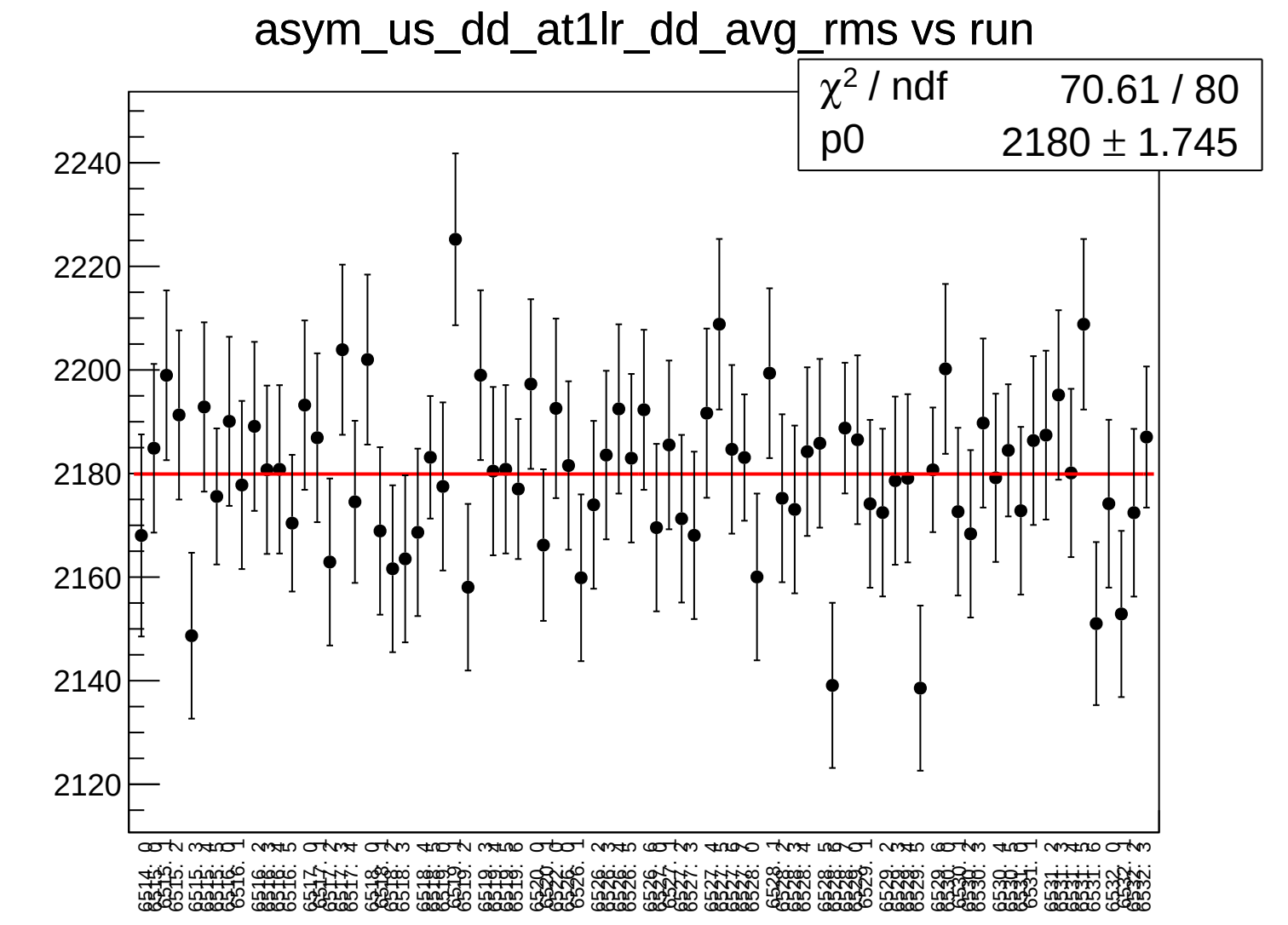

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 73.17 / 80
p0 2174 ± 1.74
2240
2220
2200
2180
2160
2140
2120

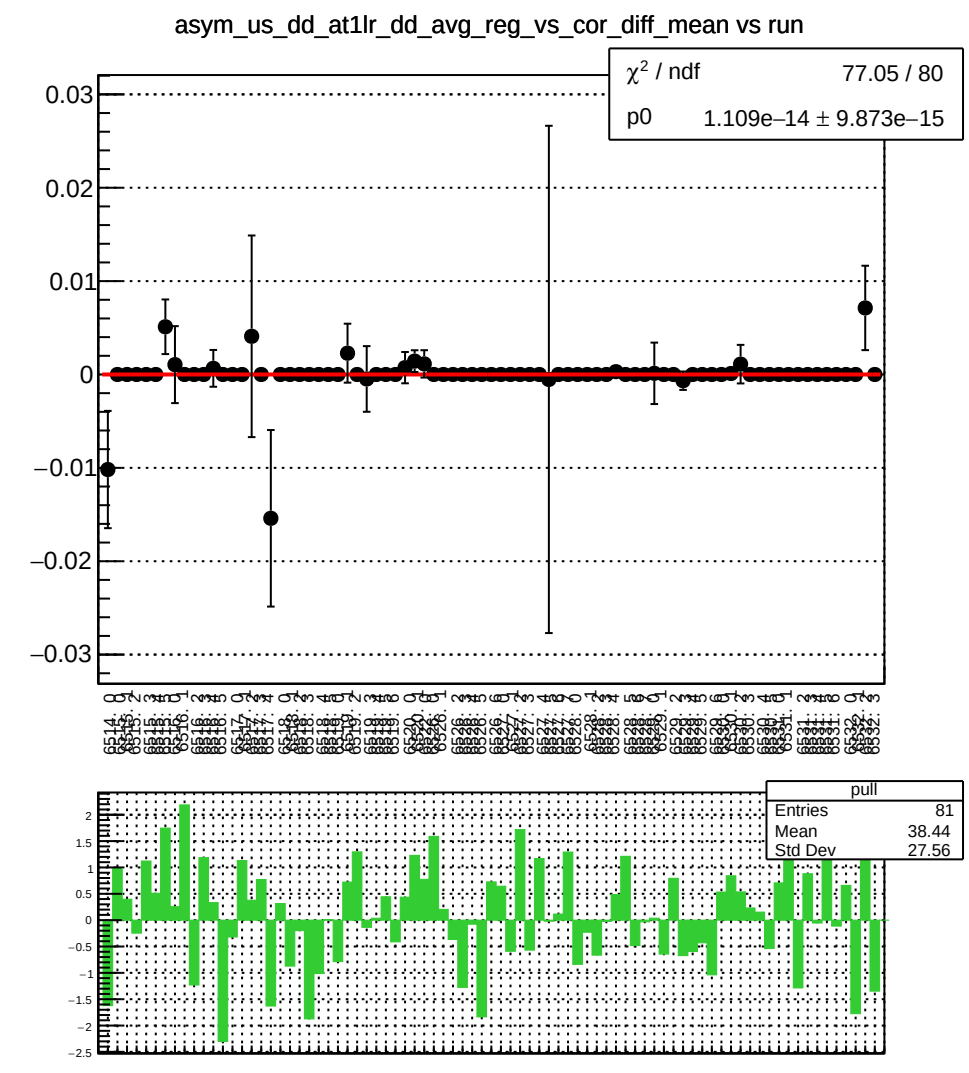

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 90.96 / 80
p0 −112 ± 199
pull
Entries 81
Mean 1.376e+04
Std Dev 0
pull1D
Entries 81
Mean −0.0001747
Std Dev 1.06

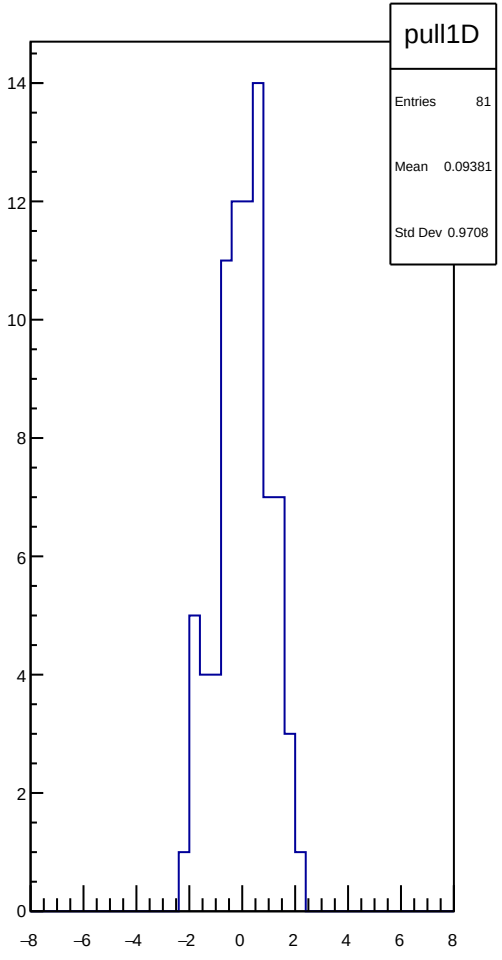

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.842e+04 / 80
p0 173.6 ± 0.1407
220
200
180
160
140

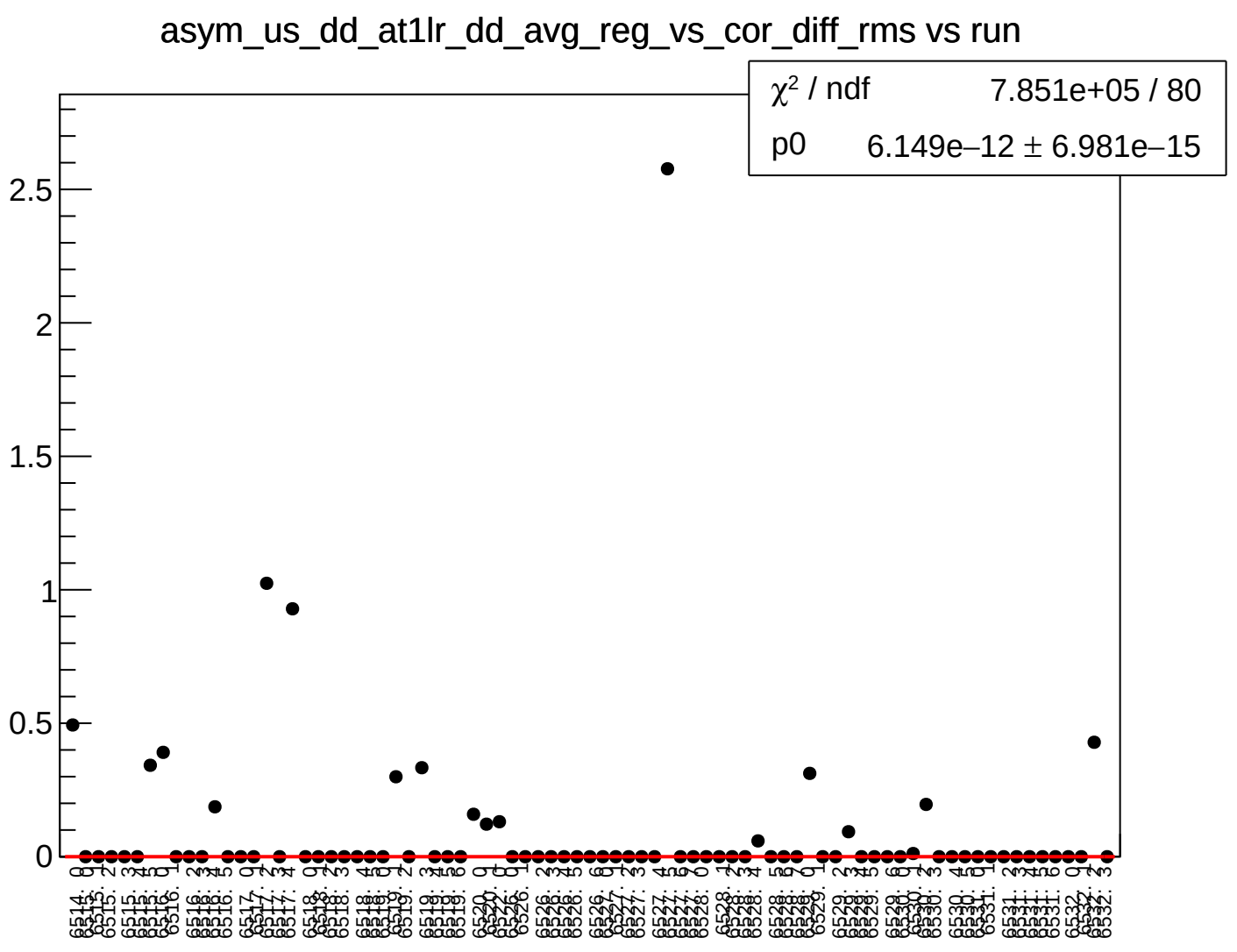

asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 85.43 / 80
p0 3278 ± 2468
×10³
pull
Entries 81
Mean −224.6
Std Dev 0

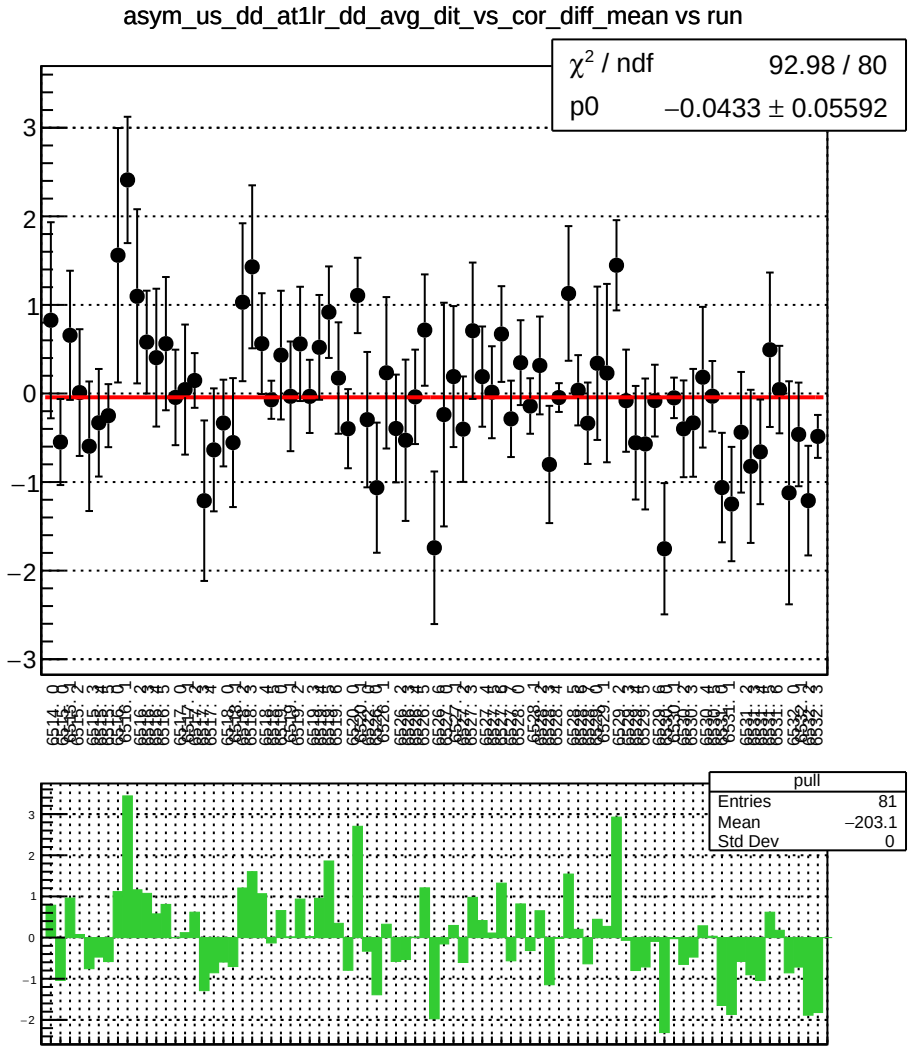

pull1D
Entries 81
Mean −0.004431
Std Dev 1.027

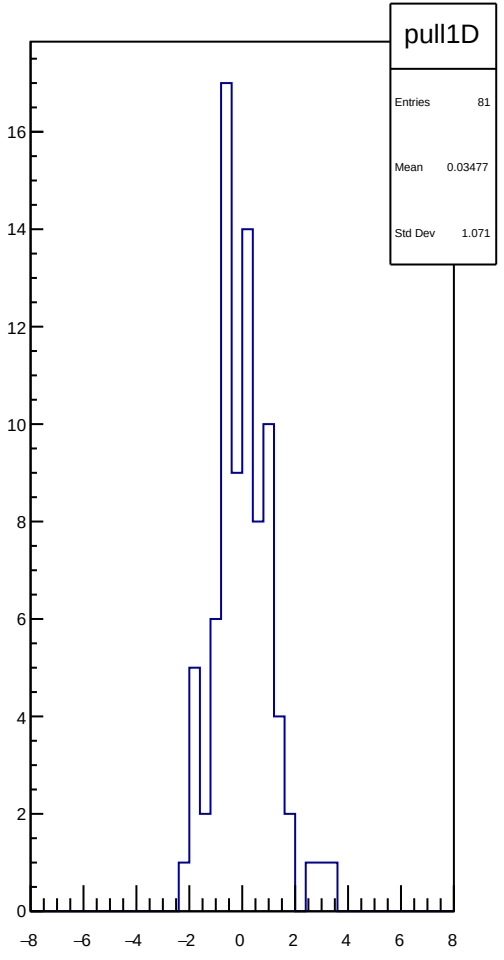

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 70.61 / 80
p0 2180 ± 1.745
2240
2220
2200
2180
2160
2140
2120

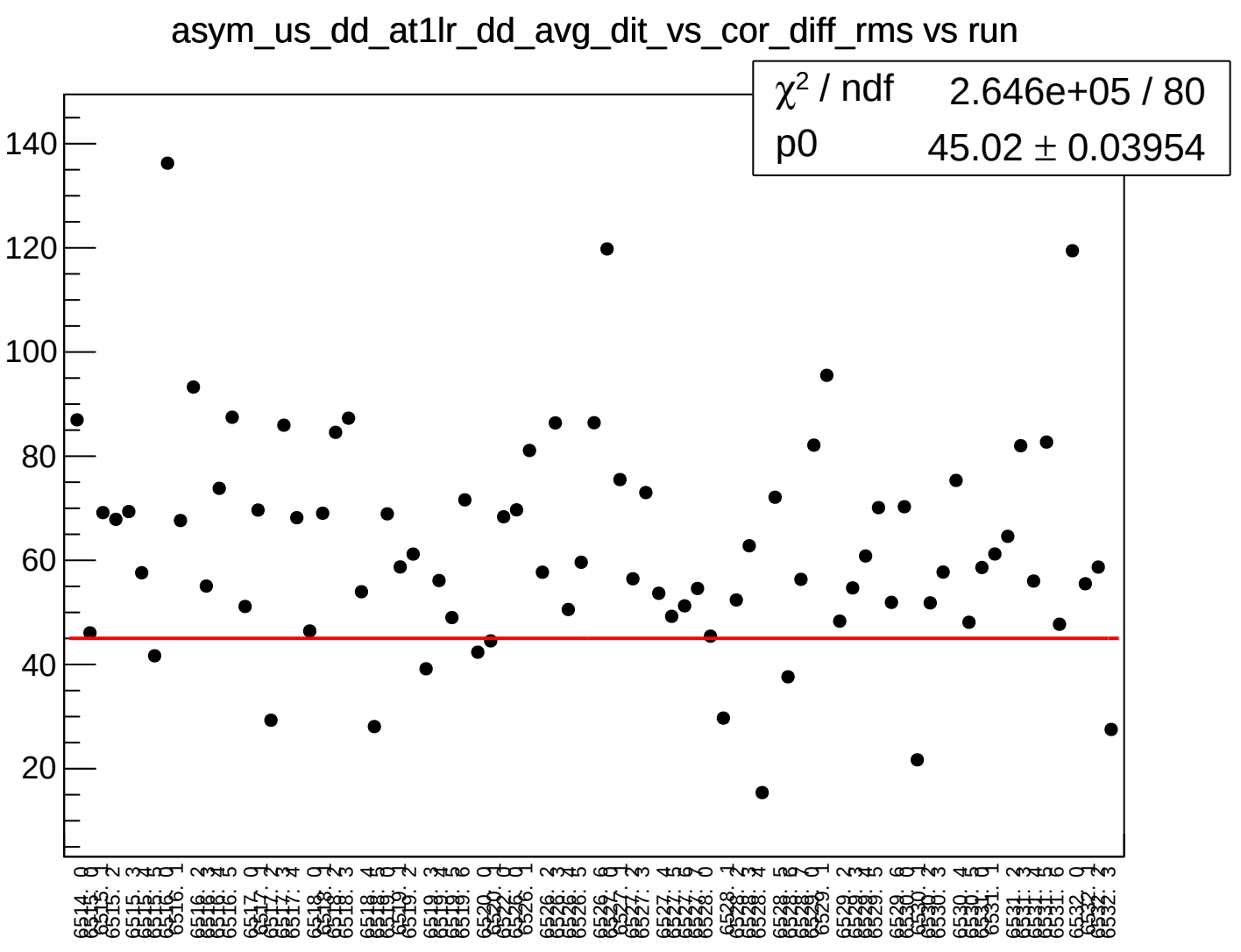

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 77.05 / 80
p0 1.109e−14 ± 9.873e−15
pull
Entries 81
Mean 38.44
Std Dev 27.56

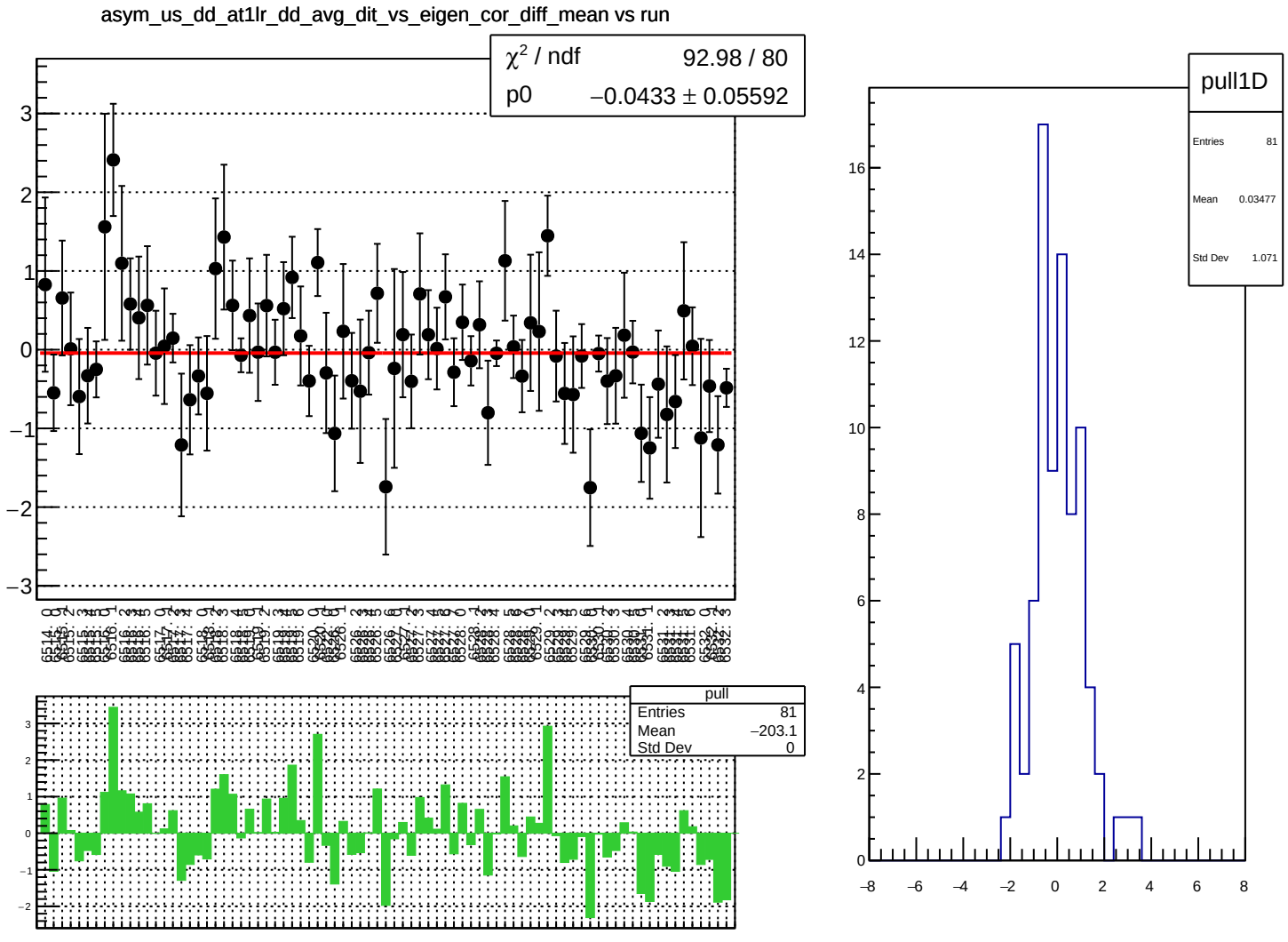

pull1D
Entries 81
Mean 0.09381
Std Dev 0.9708

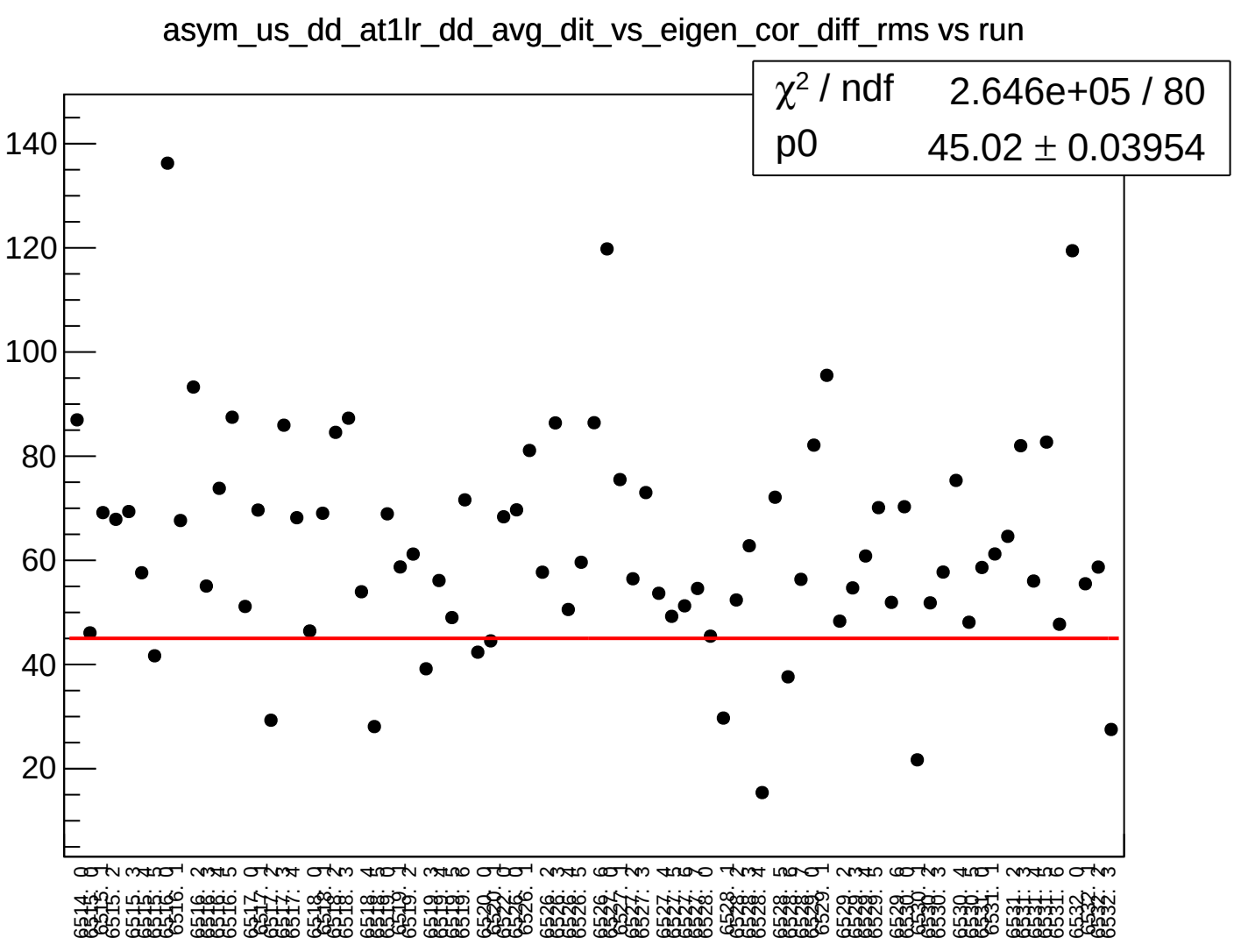

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 7.851e+05 / 80
p0 6.149e−12 ± 6.981e−15
2.5
2
1.5
1
0.5
0

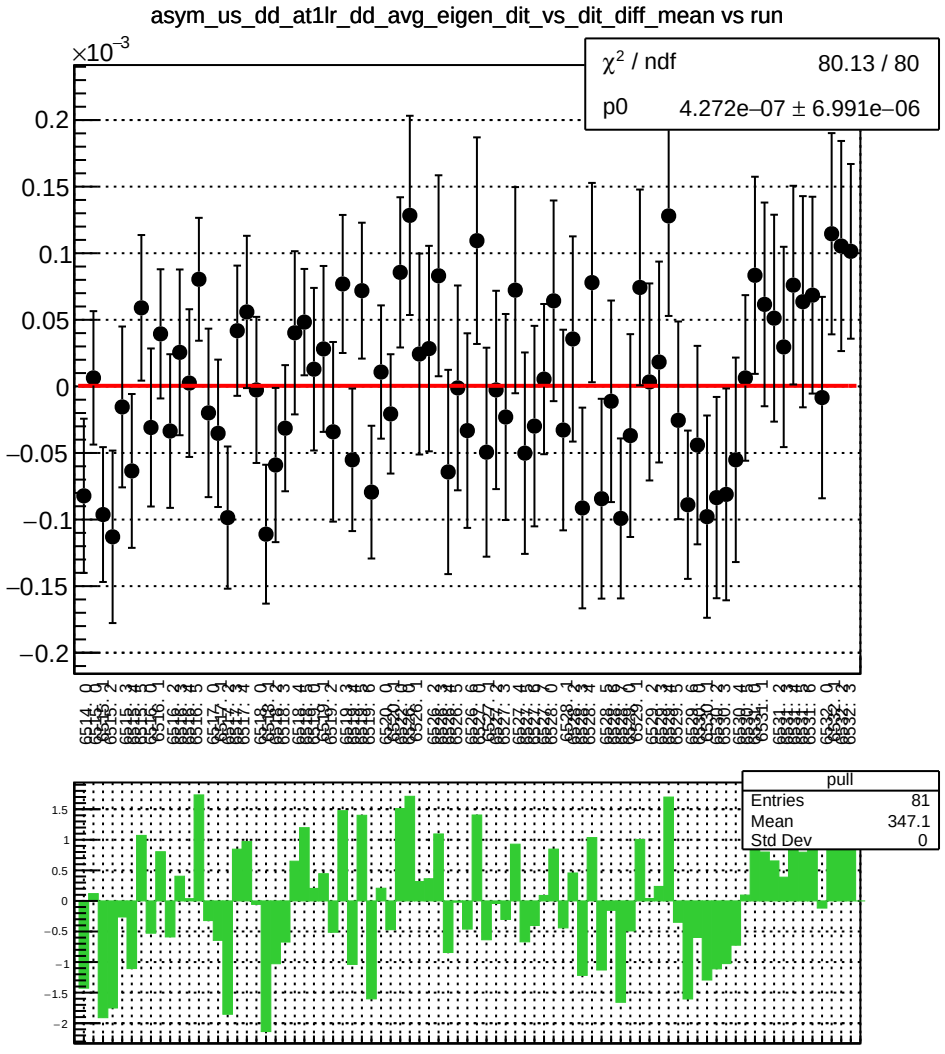

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 92.98 / 80
p0 −0.0433 ± 0.05592
pull
Entries 81
Mean −203.1
Std Dev 0

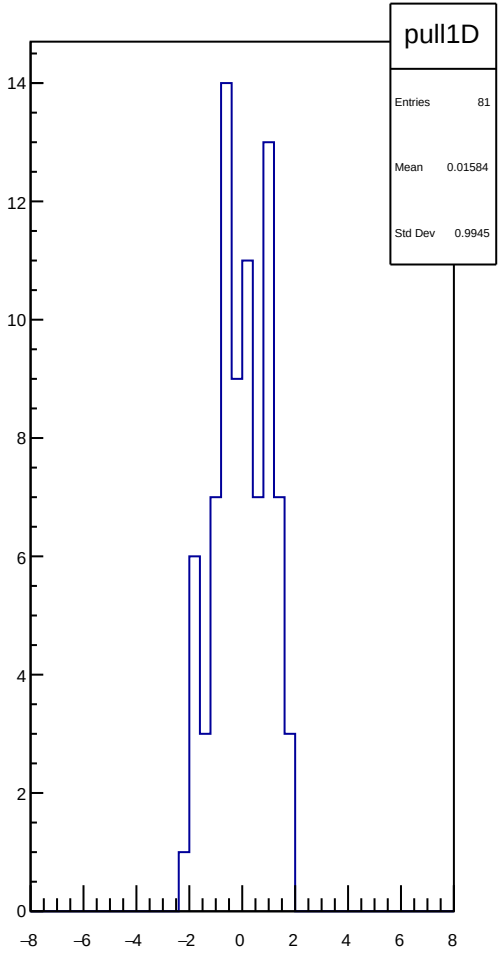

pull1D
Entries 81
Mean 0.03477
Std Dev 1.071

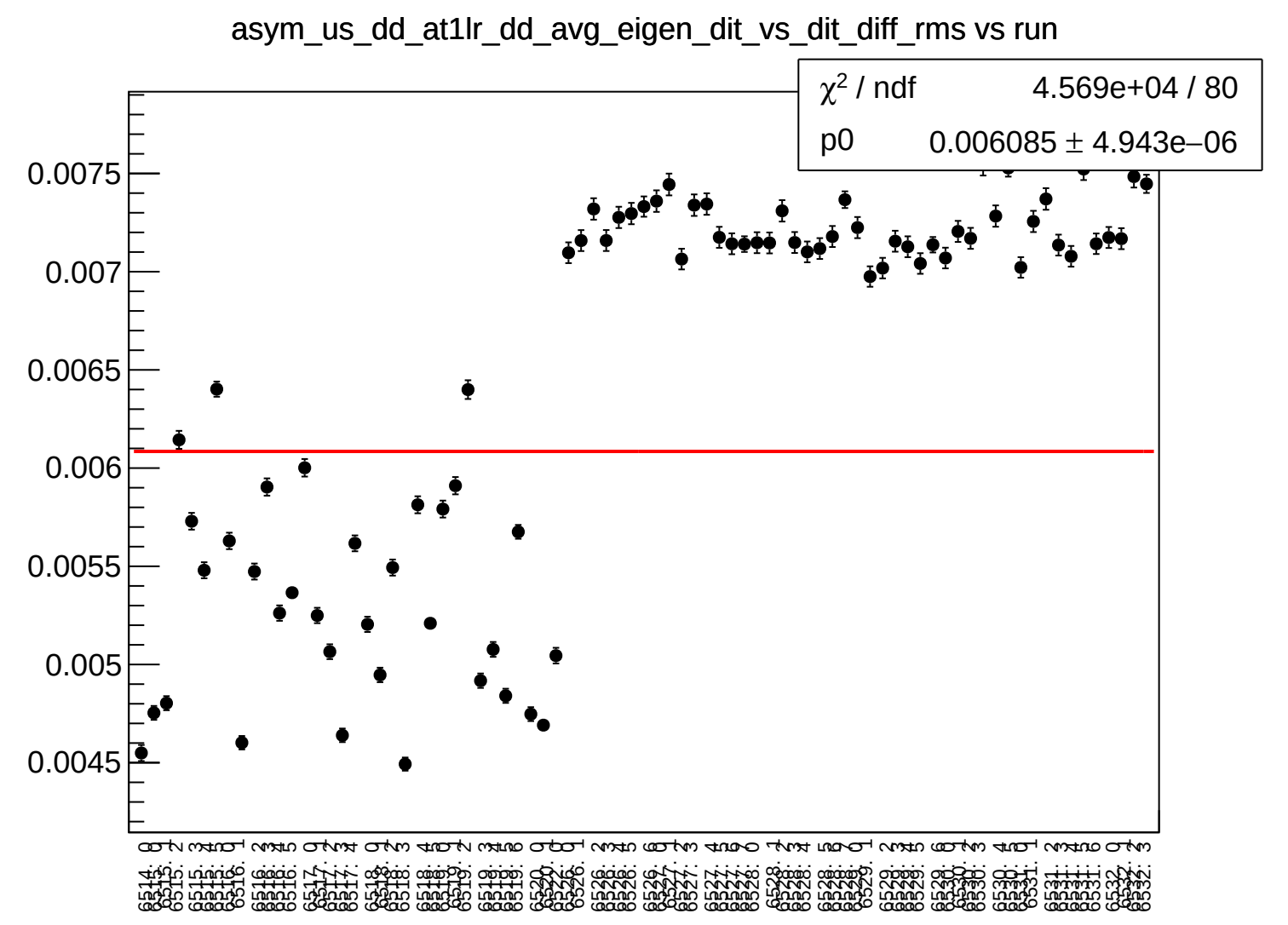

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.646e+05 / 80
p0 45.02 ± 0.03954
140
120
100
80
60
40
20

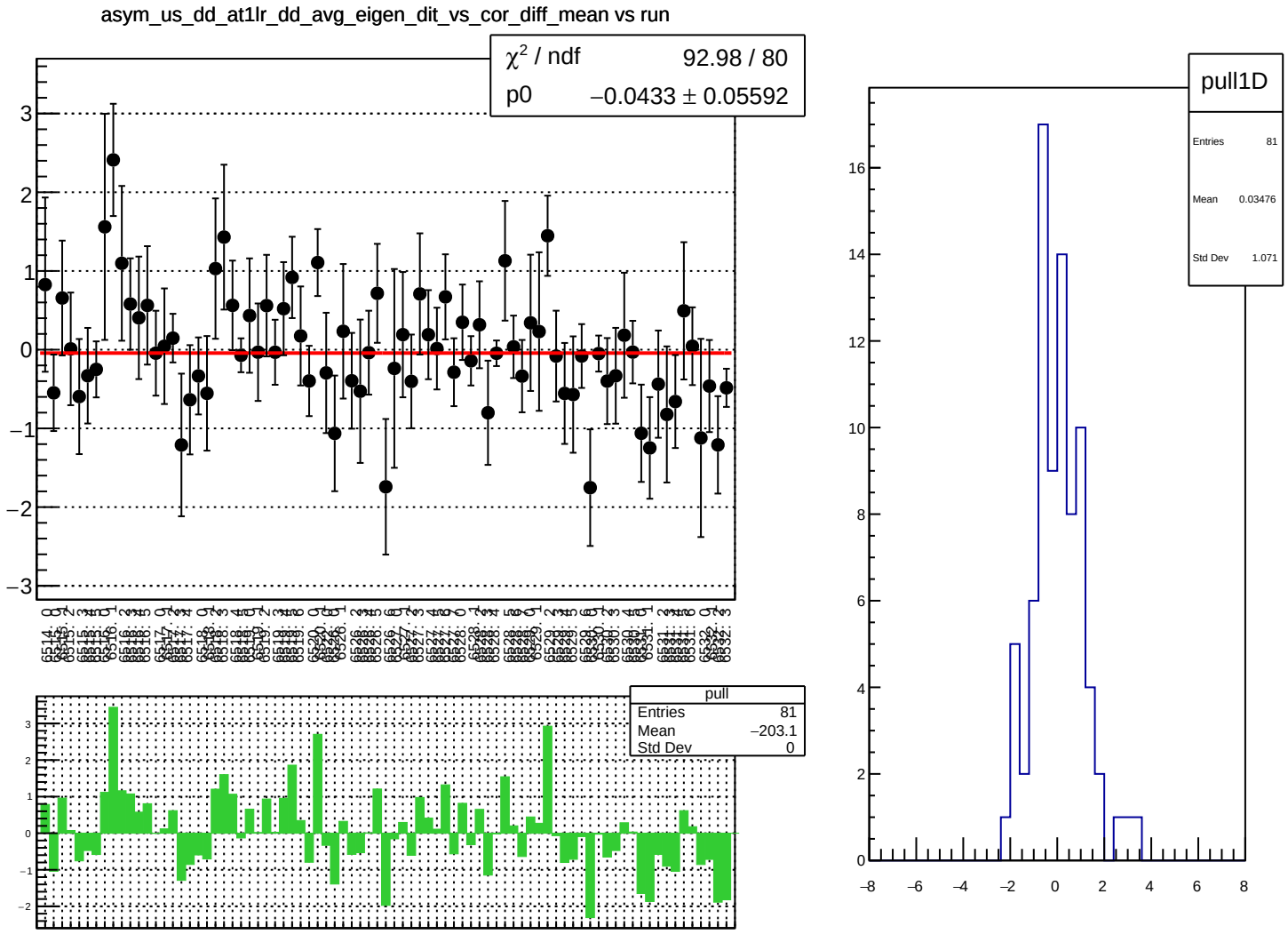

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.98 / 80
p0 −0.0433 ± 0.05592
pull
Entries 81
Mean −203.1
Std Dev 0
pull1D
Entries 81
Mean 0.03477
Std Dev 1.071

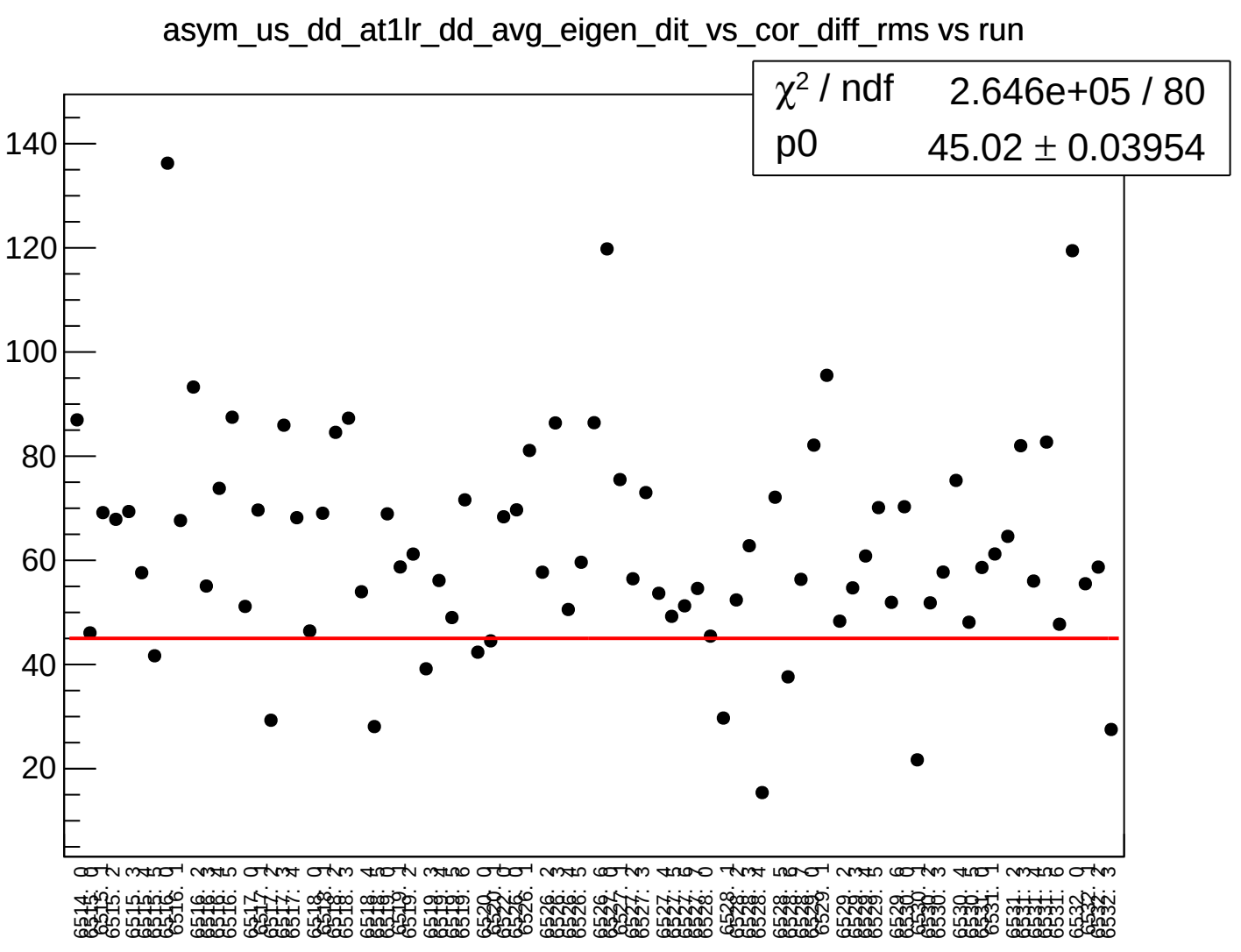

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.646e+05 / 80
p0 45.02 ± 0.03954
140
120
100
80
60
40
20

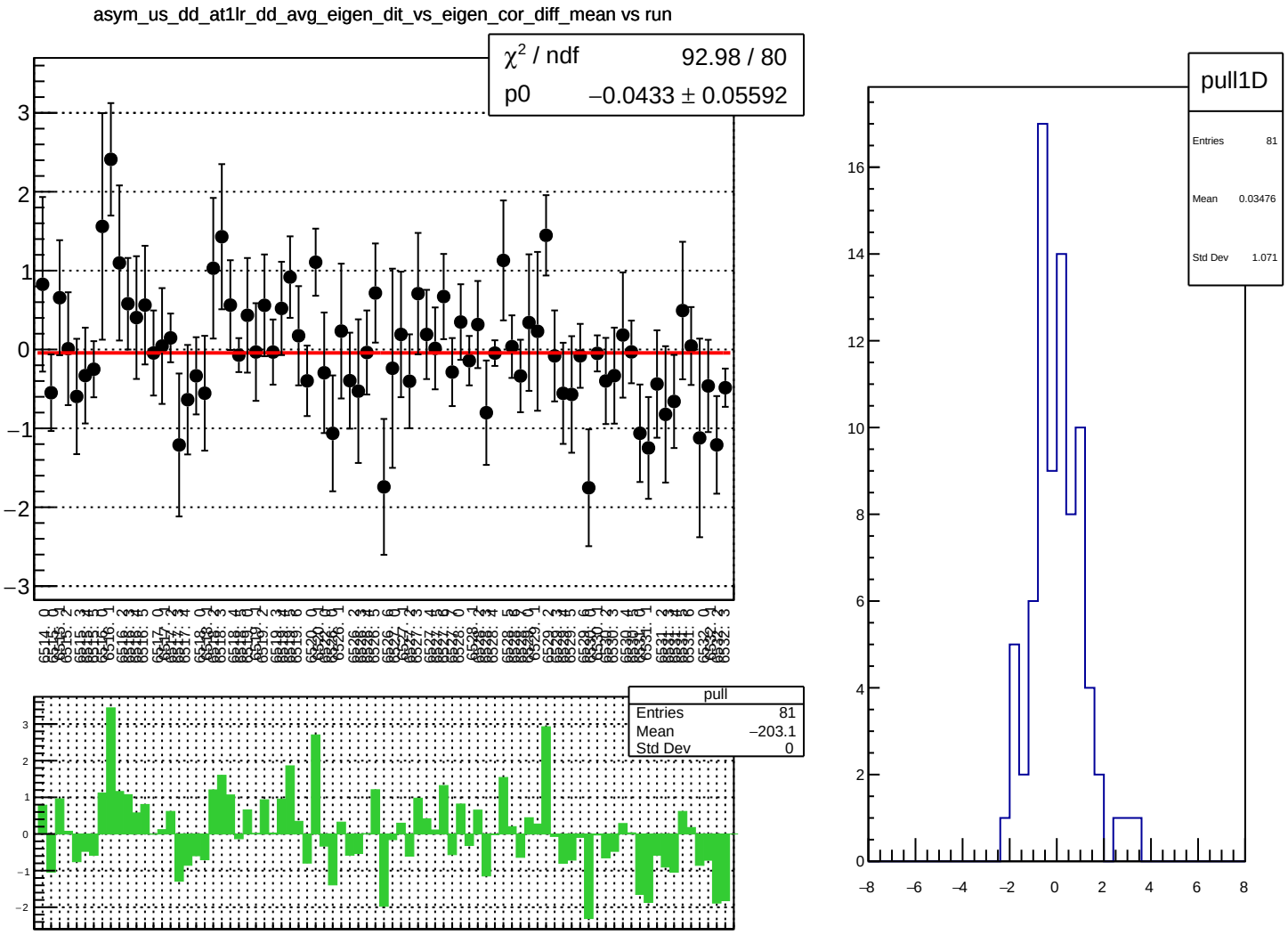

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.13 / 80
p0 4.272e−07 ± 6.991e−06
pull
Entries 81
Mean 347.1
Std Dev 0

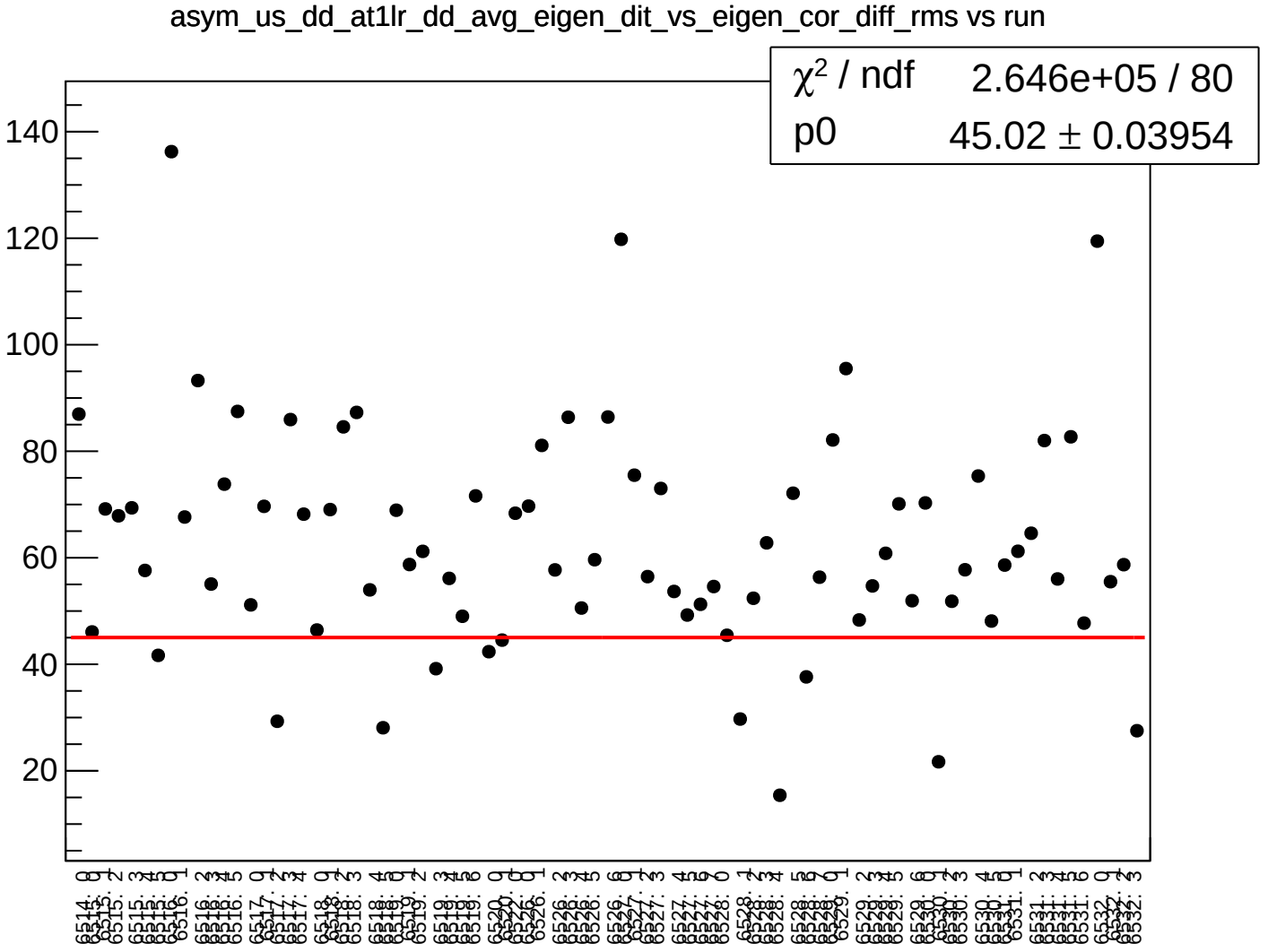

pull1D
Entries 81
Mean 0.01584
Std Dev 0.9945

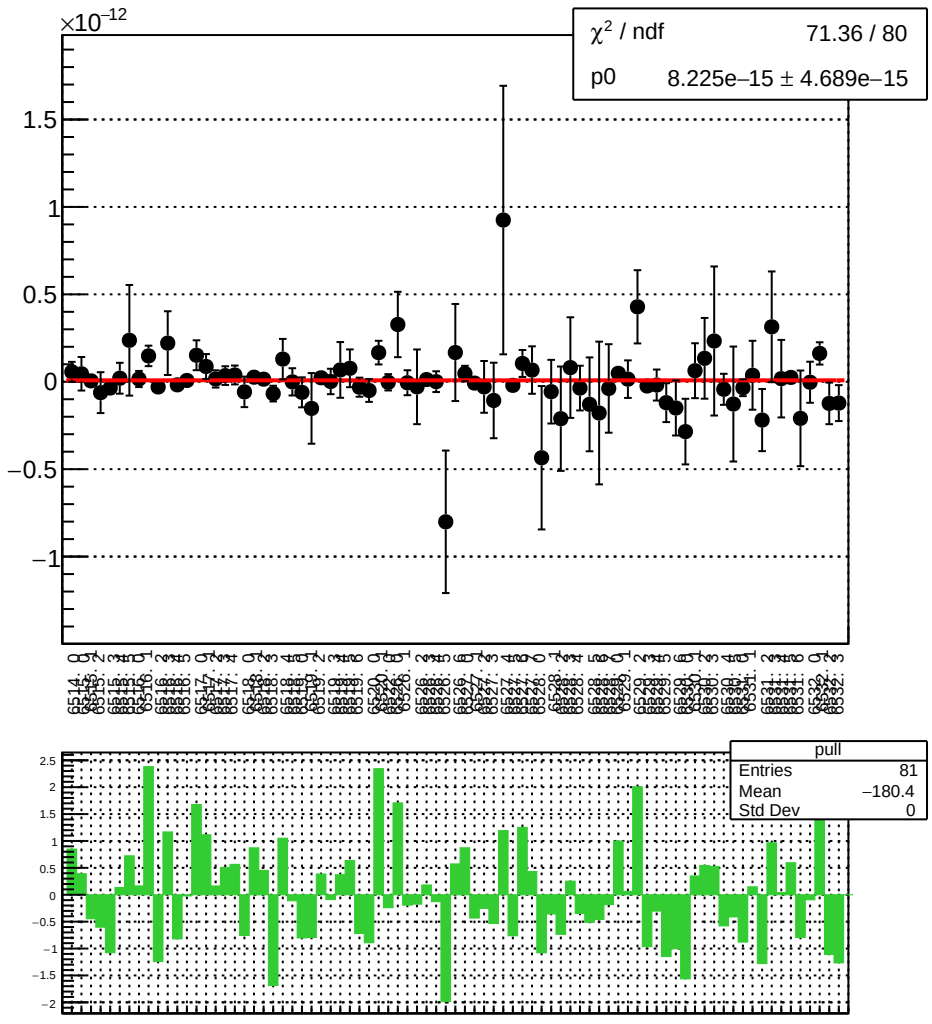

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.569e+04 / 80
p0 0.006085 ± 4.943e−06
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045

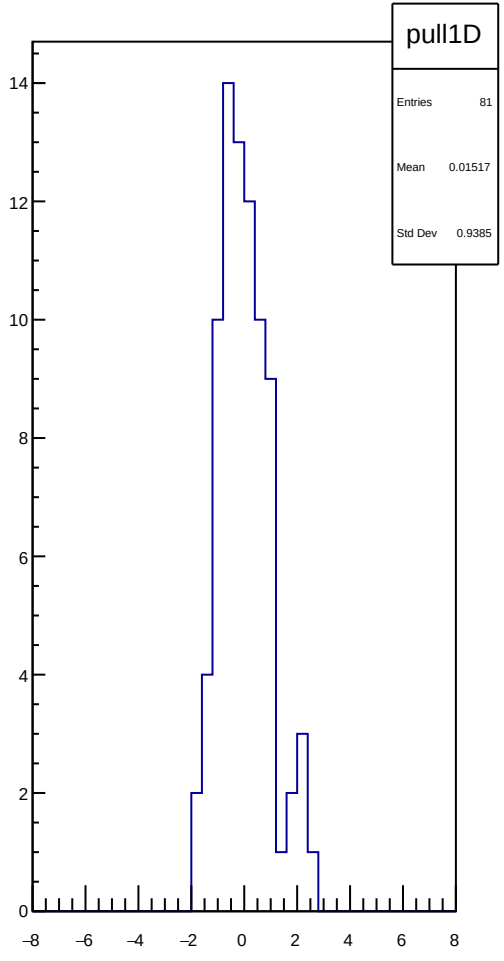

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.98 / 80
p0 −0.0433 ± 0.05592
pull
Entries 81
Mean −203.1
Std Dev 0
pull1D
Entries 81
Mean 0.03476
Std Dev 1.071

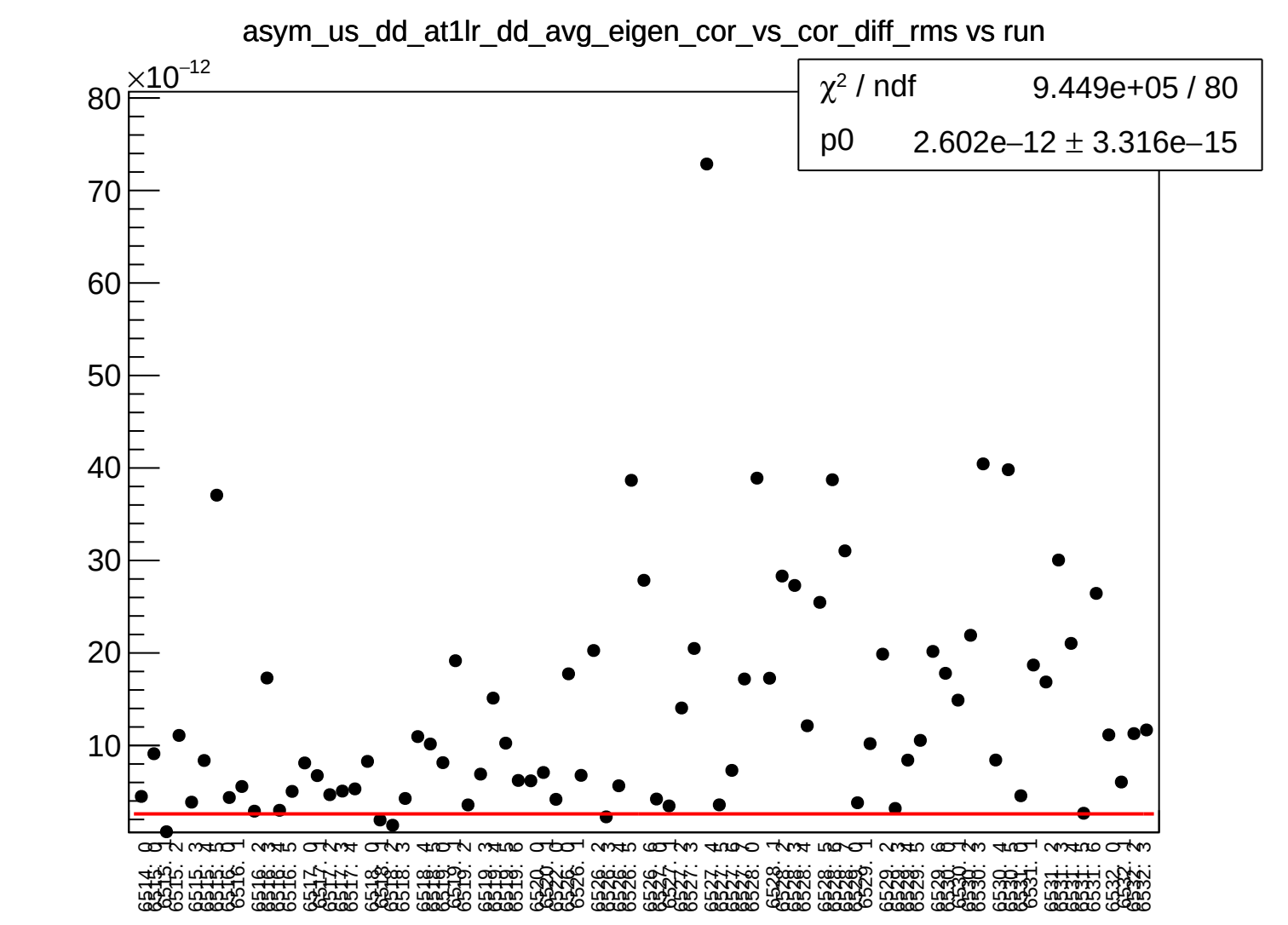

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.646e+05 / 80
p0 45.02 ± 0.03954
140
120
100
80
60
40
20

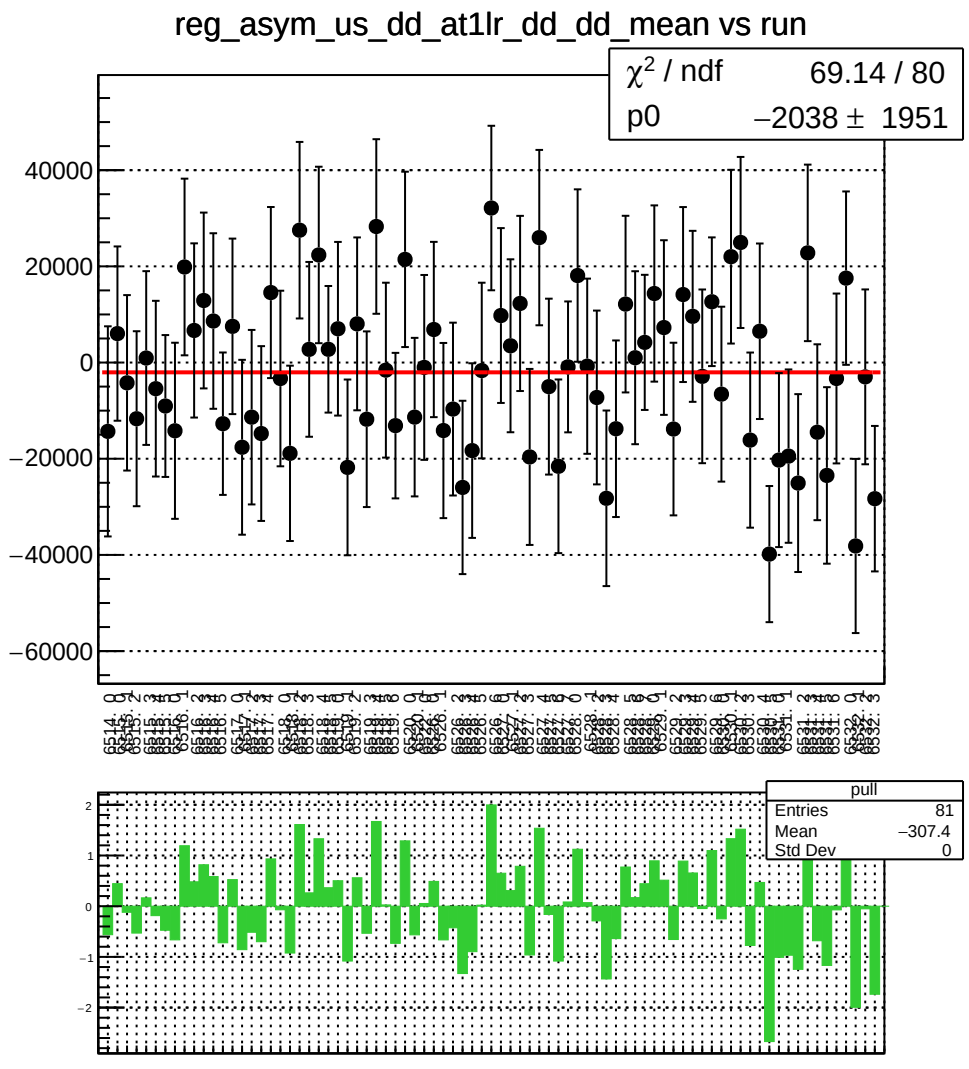

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.98 / 80
p0 −0.0433 ± 0.05592
pull
Entries 81
Mean −203.1
Std Dev 0
pull1D
Entries 81
Mean 0.03476
Std Dev 1.071

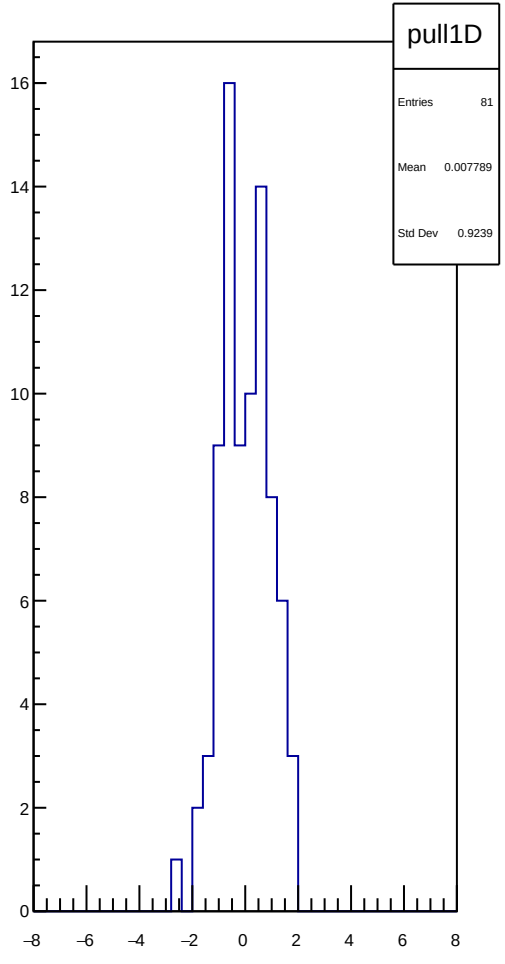

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.646e+05 / 80
p0 45.02 ± 0.03954
140
120
100
80
60
40
20

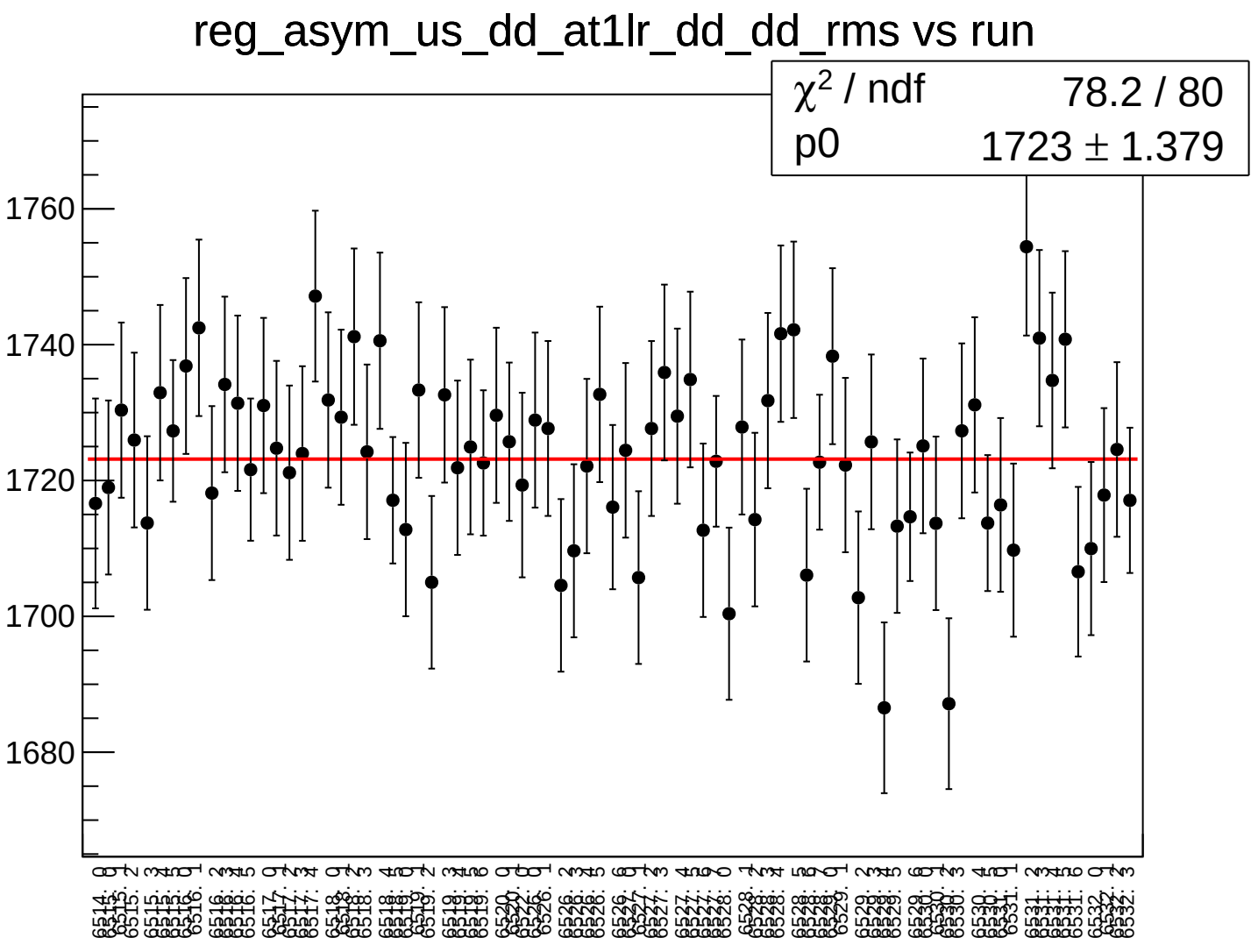

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71.36 / 80
p0 8.225e−15 ± 4.689e−15
pull
Entries 81
Mean −180.4
Std Dev 0

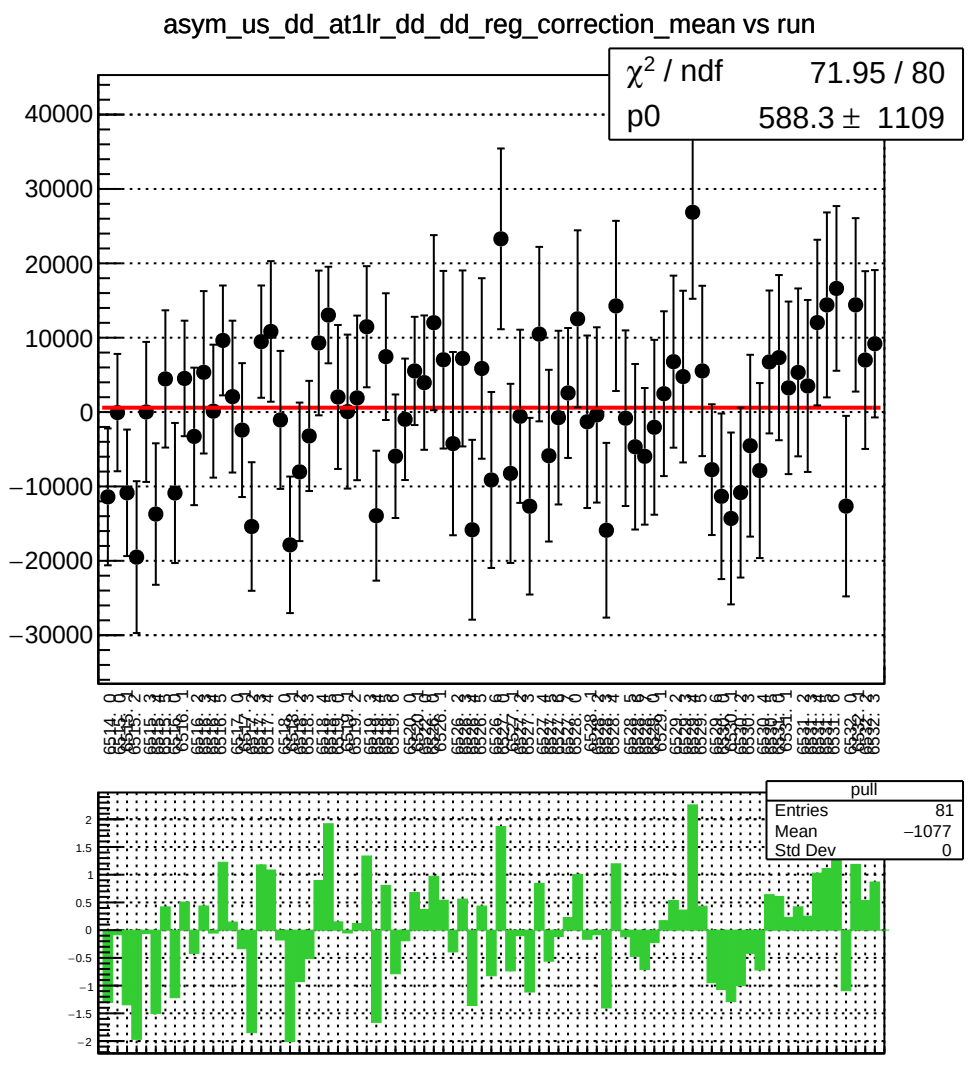

pull1D
Entries 81
Mean 0.01517
Std Dev 0.9385

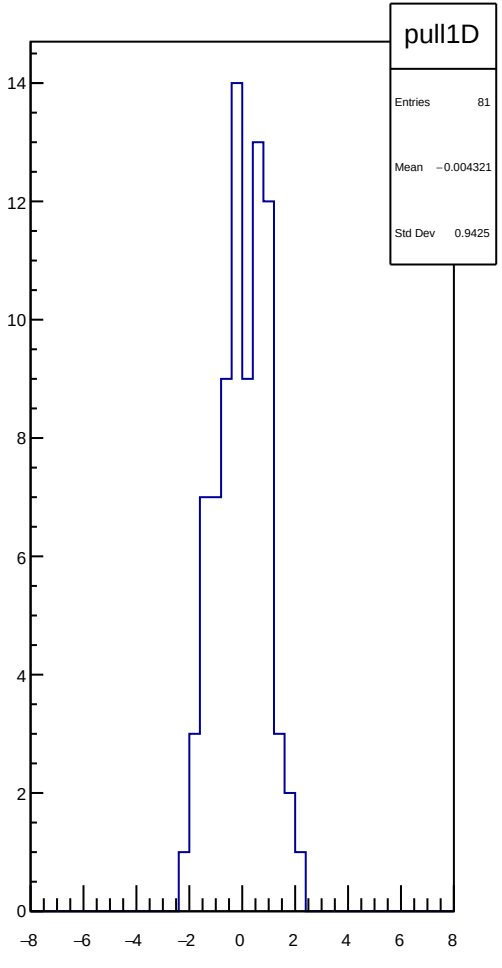

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 9.449e+05 / 80
p0 2.602e−12 ± 3.316e−15
80
70
60
50
40
30
20
10

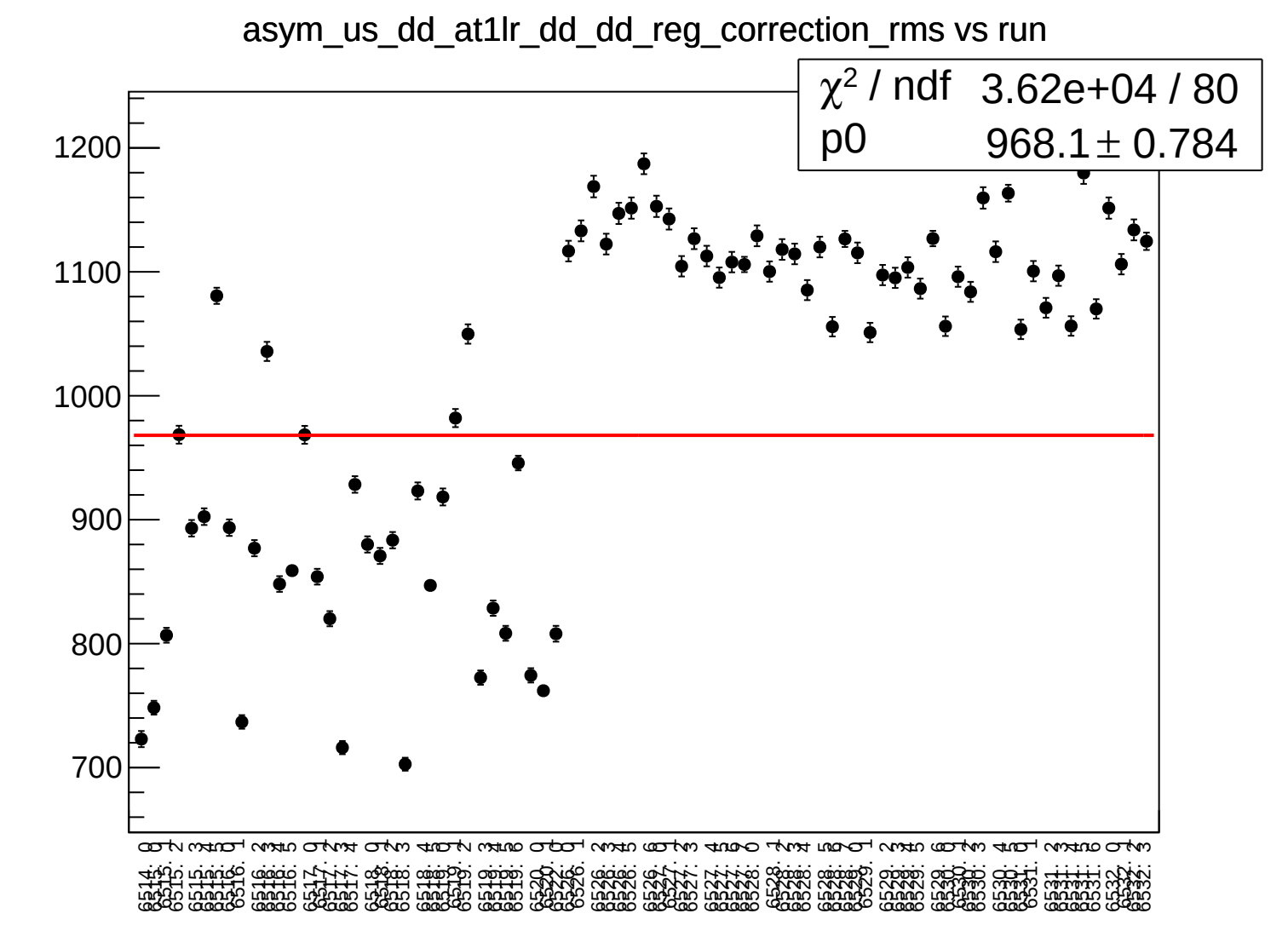

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 69.14 / 80
p0 −2038 ± 1951
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −307.4
Std Dev 0
2
1
0
−1
−2

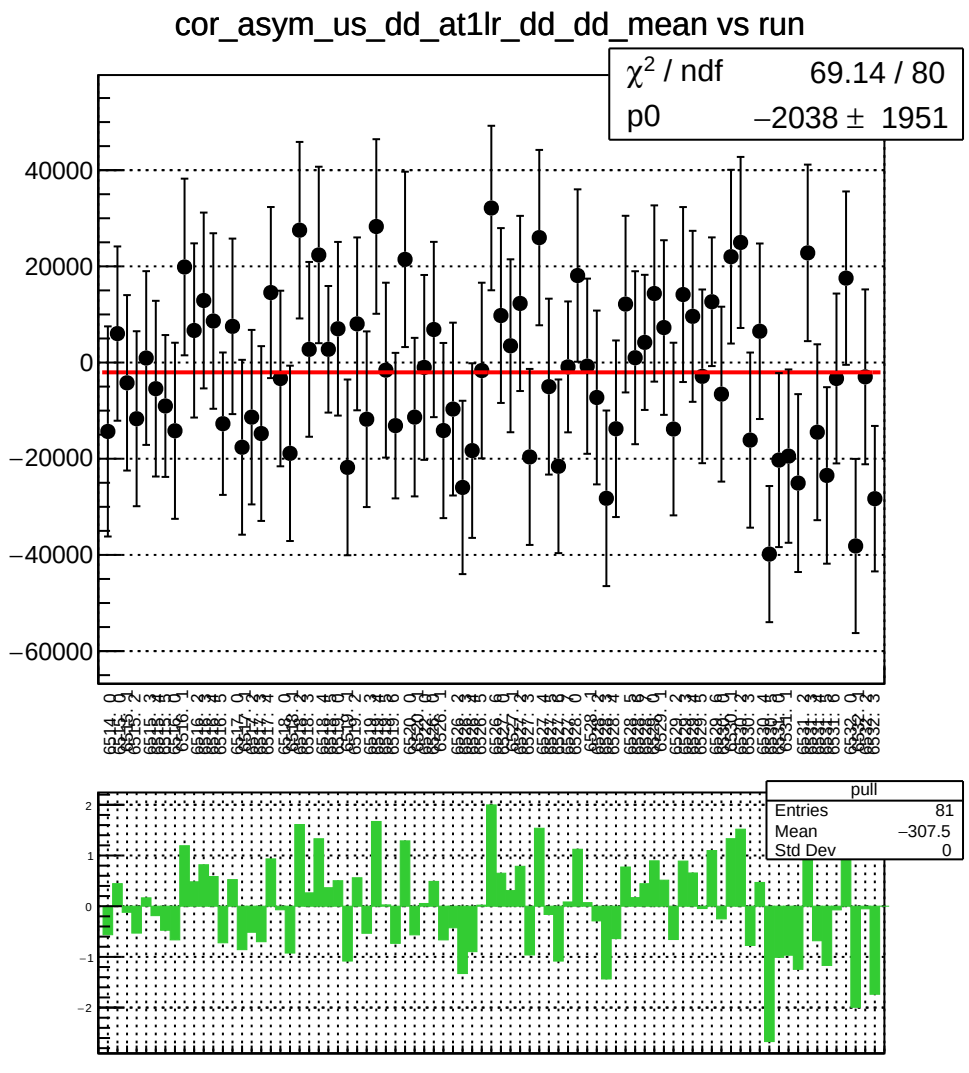

pull1D
Entries 81
Mean 0.007789
Std Dev 0.9239
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

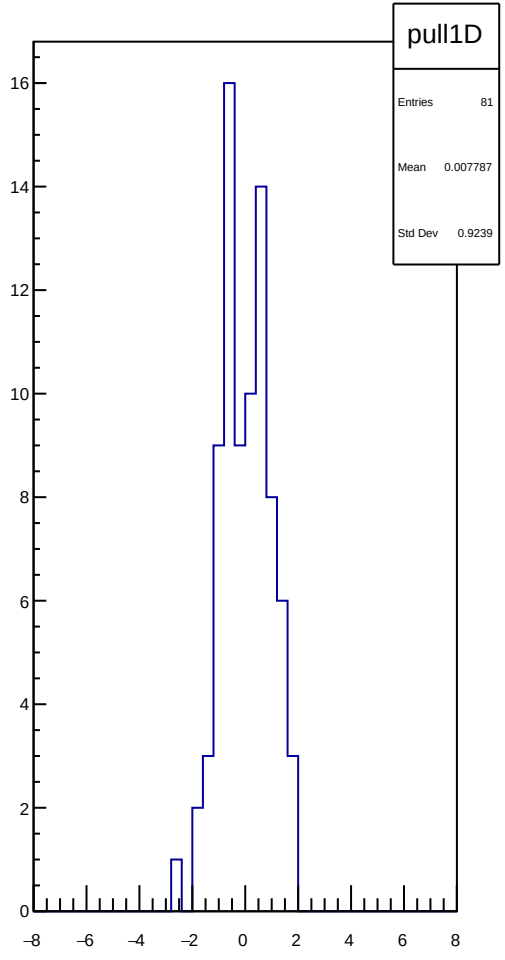

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 78.2 / 80
p0 1723 ± 1.379
1760
1740
1720
1700
1680

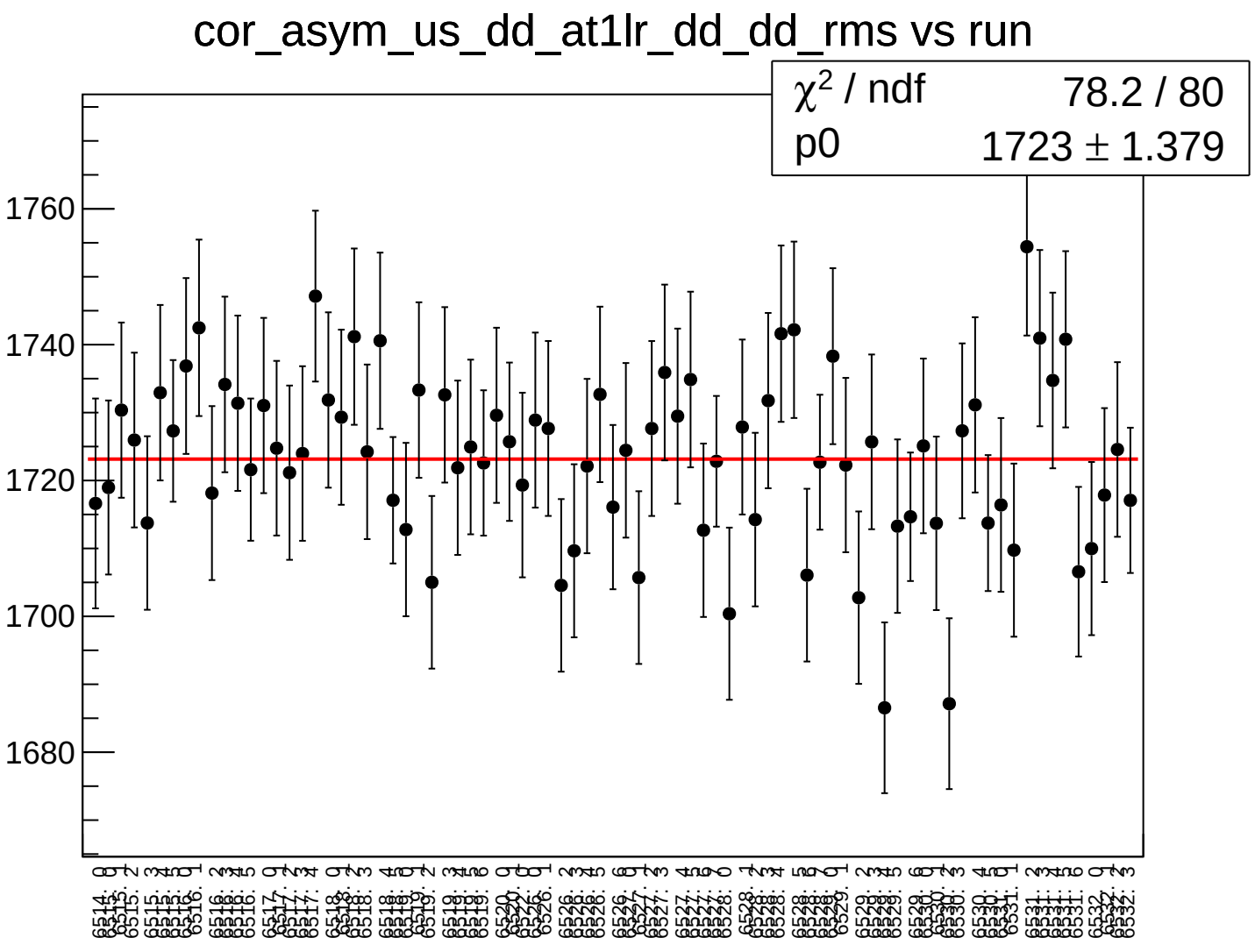

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 71.95 / 80
p0 588.3 ± 1109
pull
Entries 81
Mean −1077
Std Dev 0

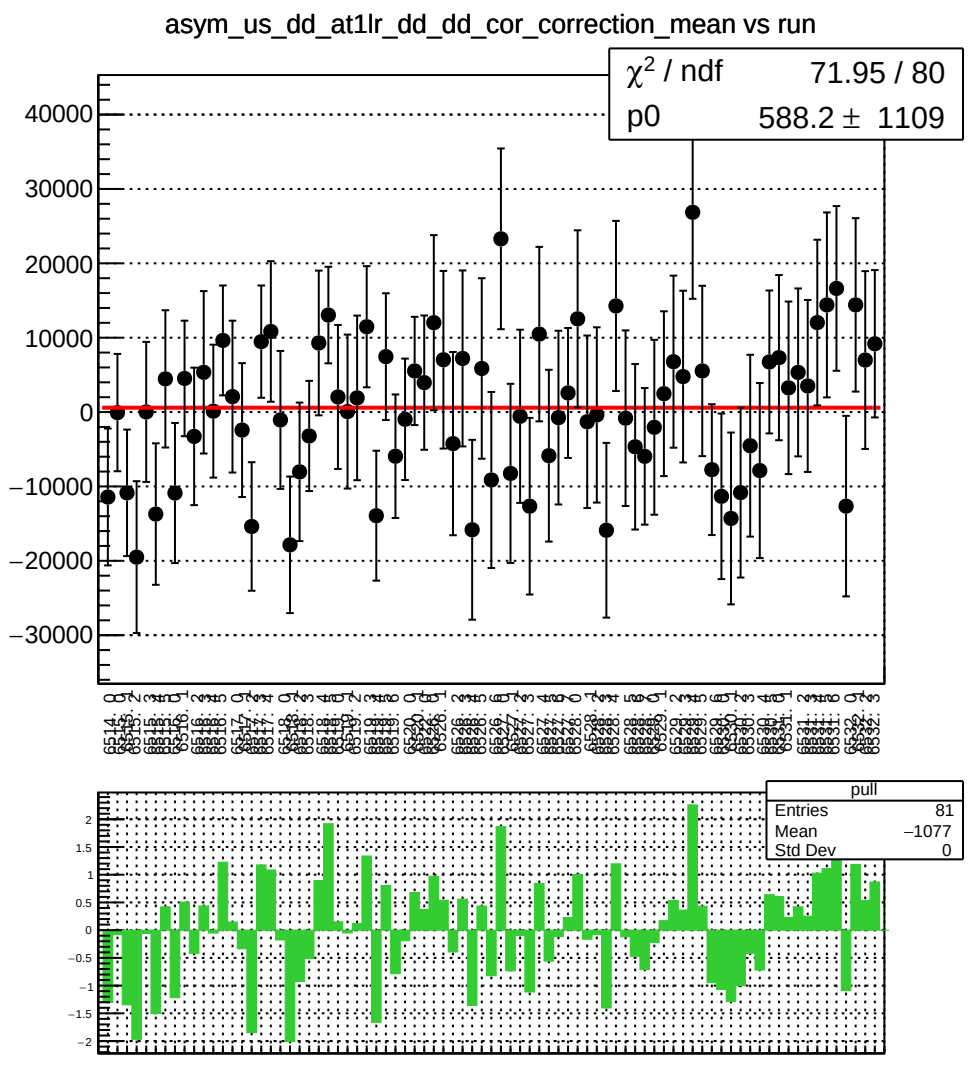

pull1D
Entries 81
Mean −0.004321
Std Dev 0.9425

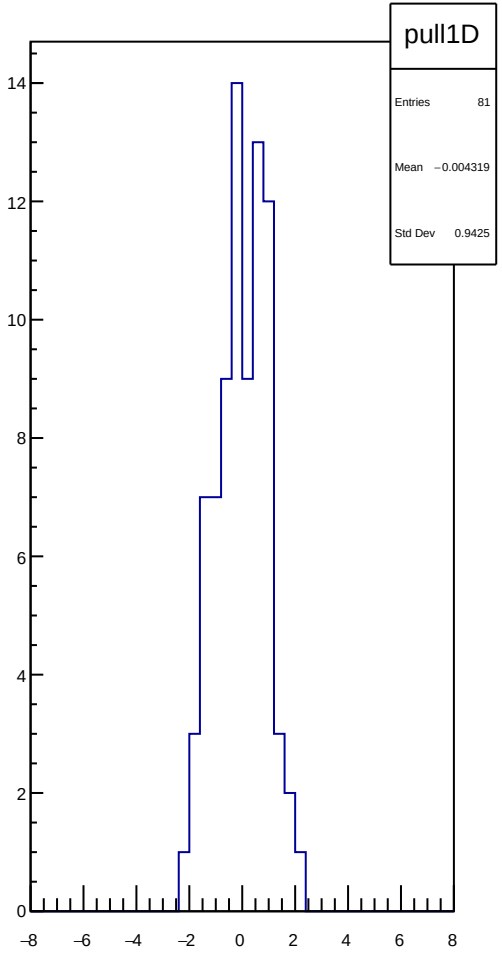

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 3.62e+04 / 80
p0 968.1 ± 0.784
1200
1100
1000
900
800
700

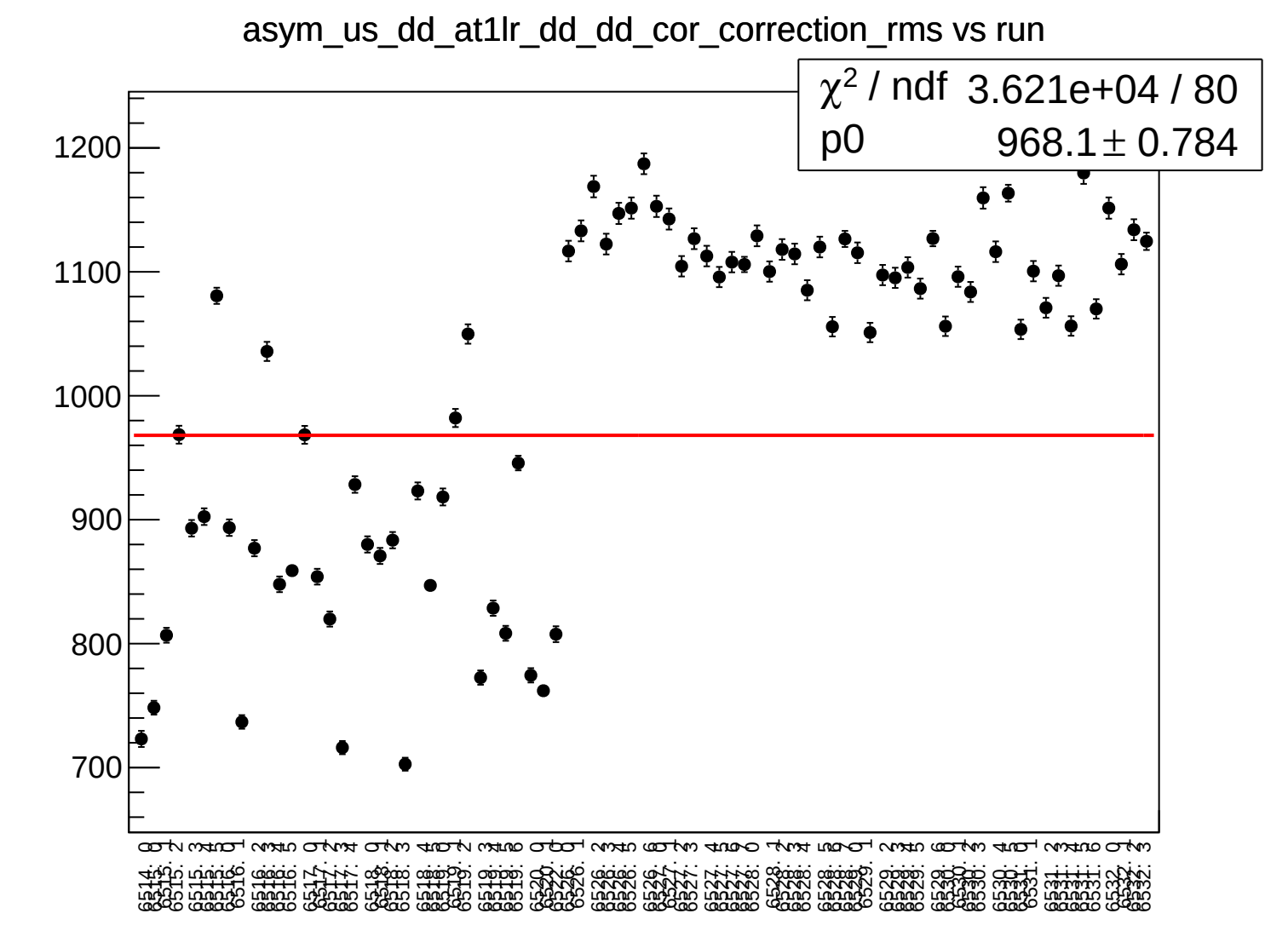

cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 69.14 / 80
p0 −2038 ± 1951
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −307.5
Std Dev 0
2
1
0
−1
−2

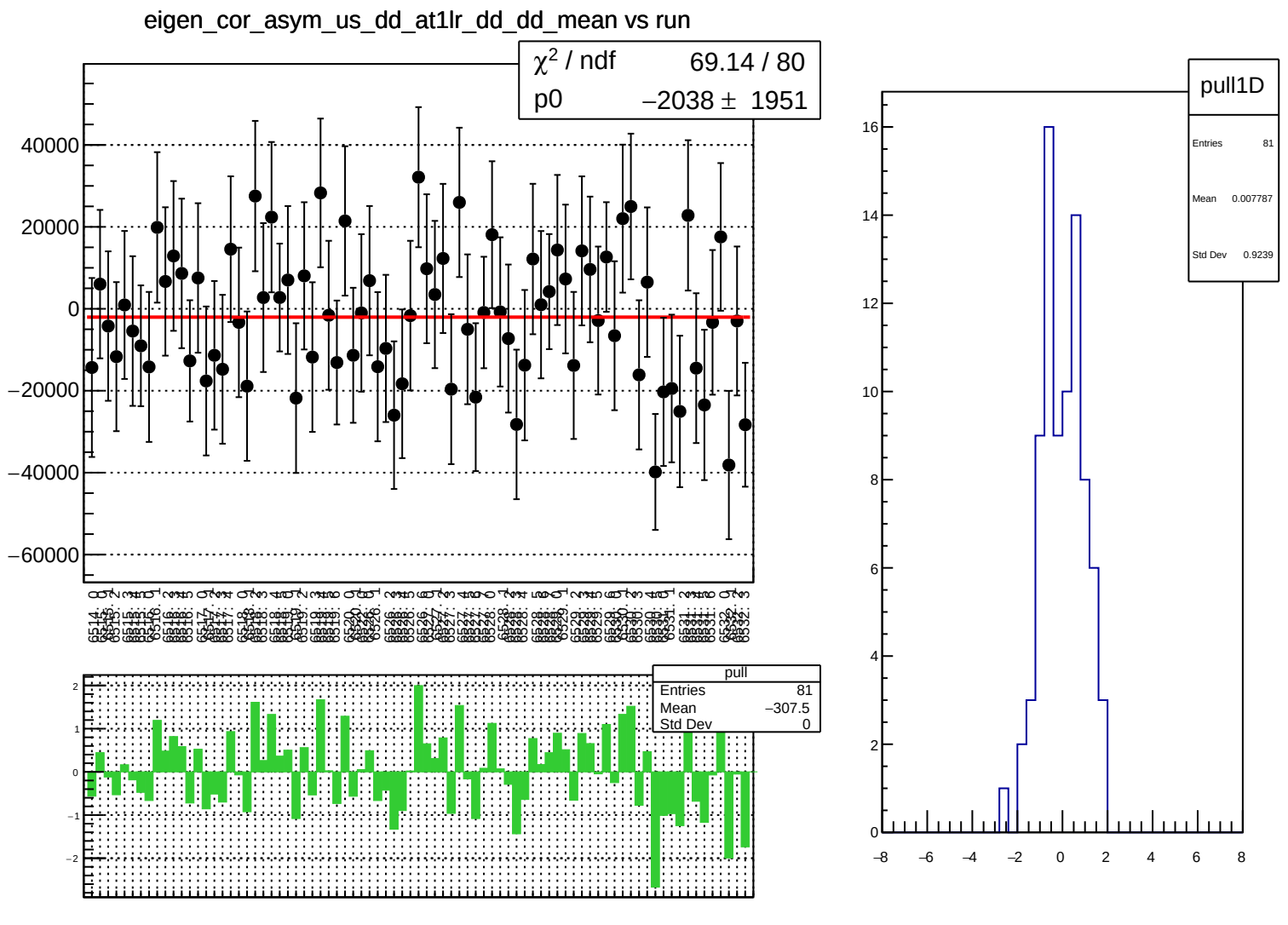

pull1D
Entries 81
Mean 0.007787
Std Dev 0.9239
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

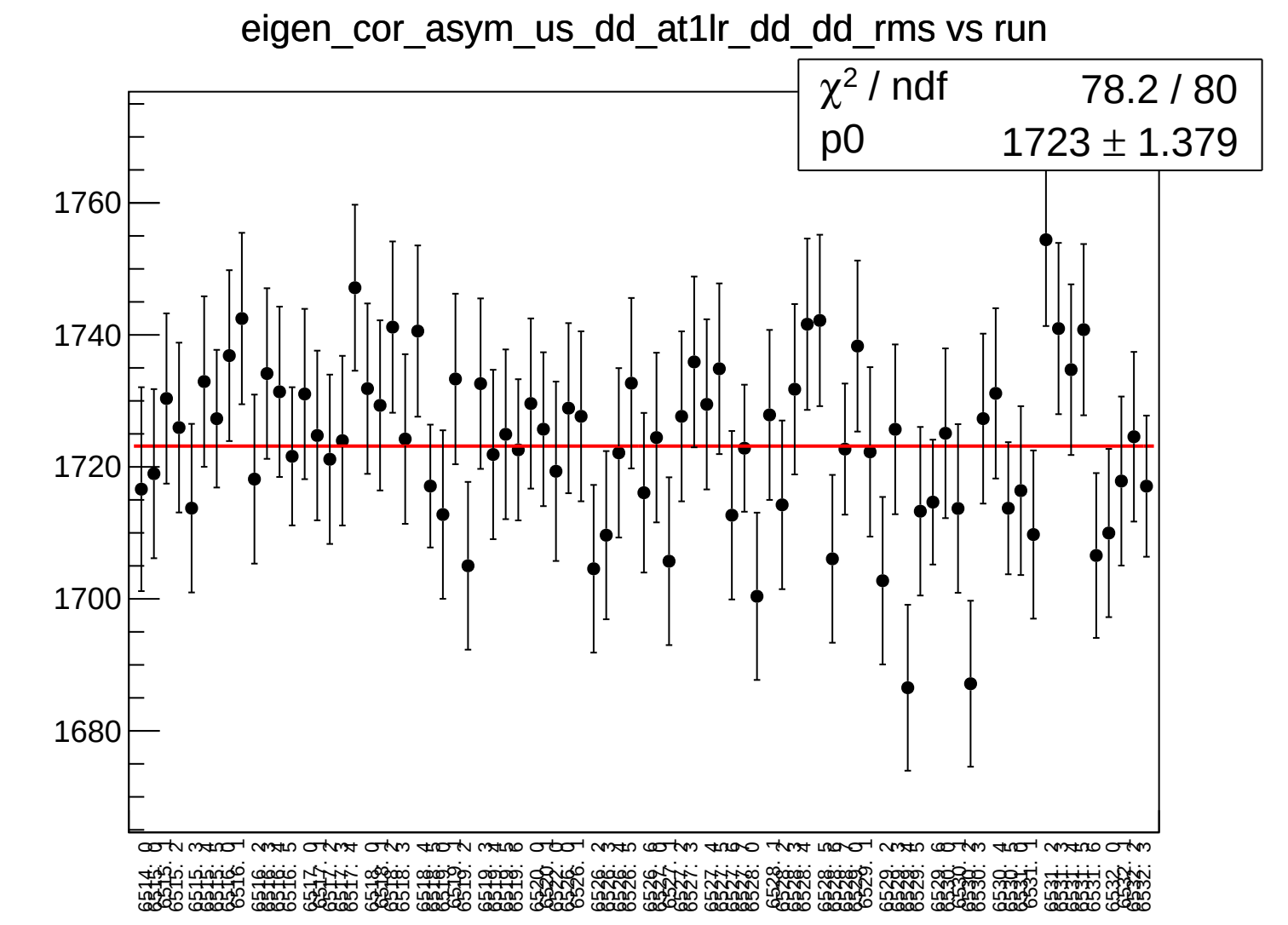

cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 78.2 / 80
p0 1723 ± 1.379
1760
1740
1720
1700
1680

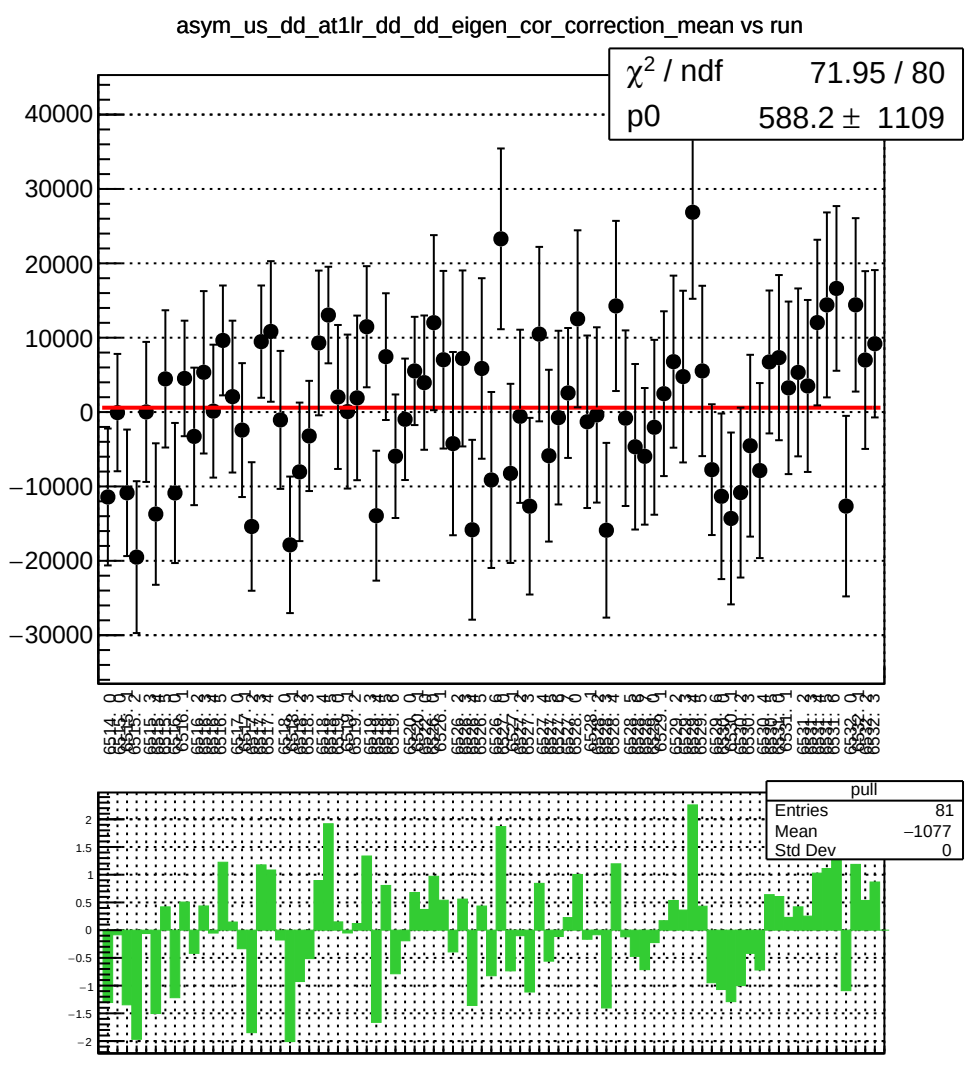

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ² / ndf 71.95 / 80
p0 588.2 ± 1109
pull
Entries 81
Mean −1077
Std Dev 0

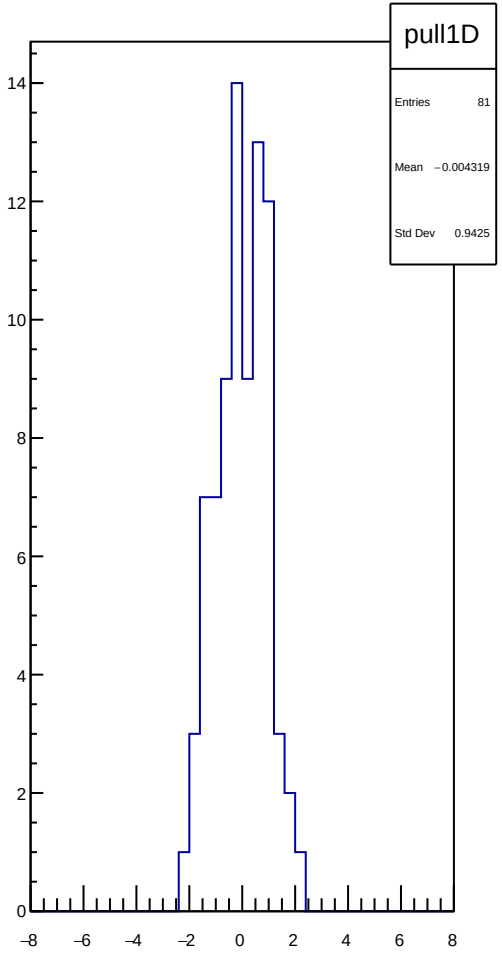

pull1D
Entries 81
Mean −0.004319
Std Dev 0.9425

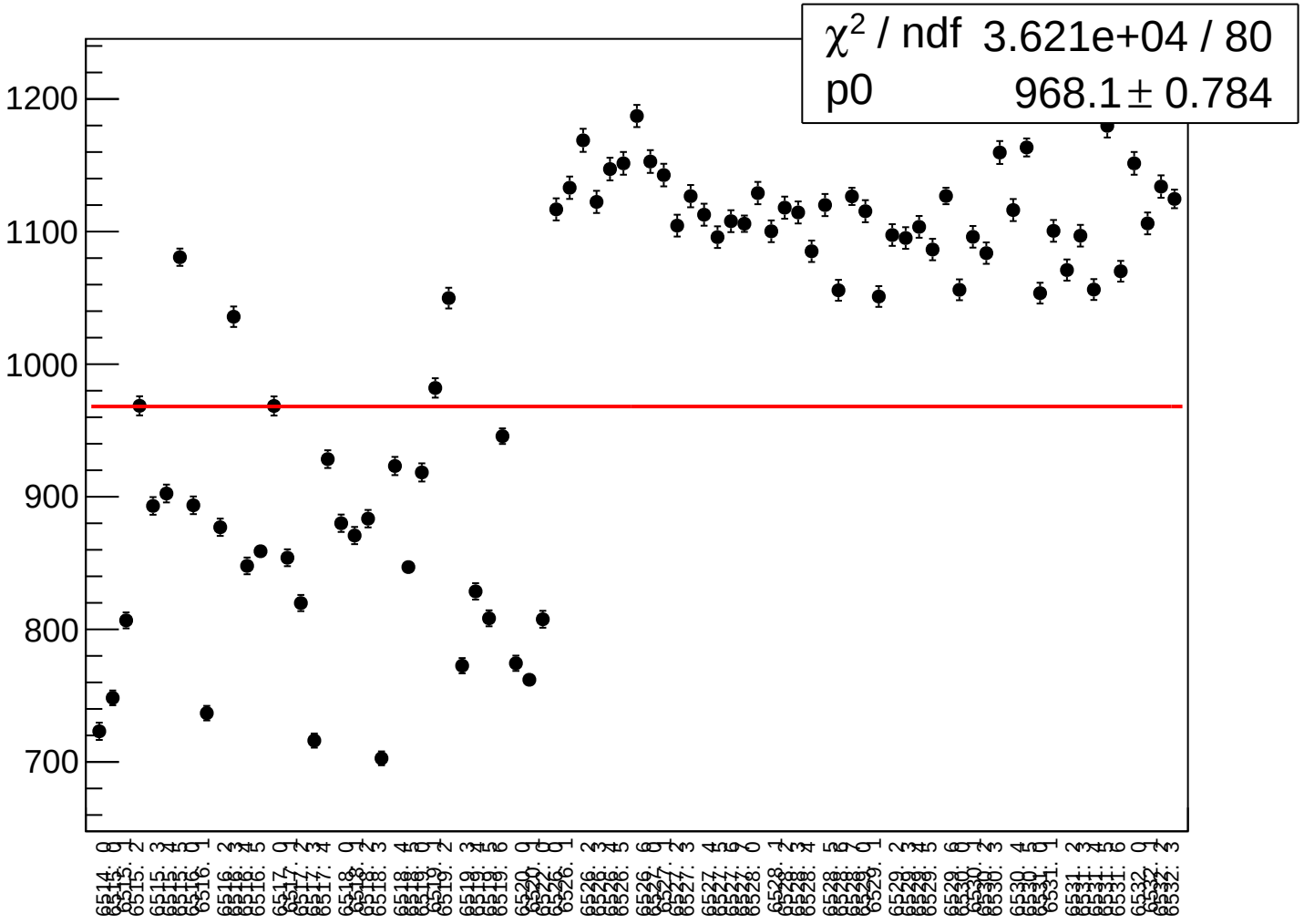

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 3.621e+04 / 80
p0 968.1 ± 0.784
1200
1100
1000
900
800
700

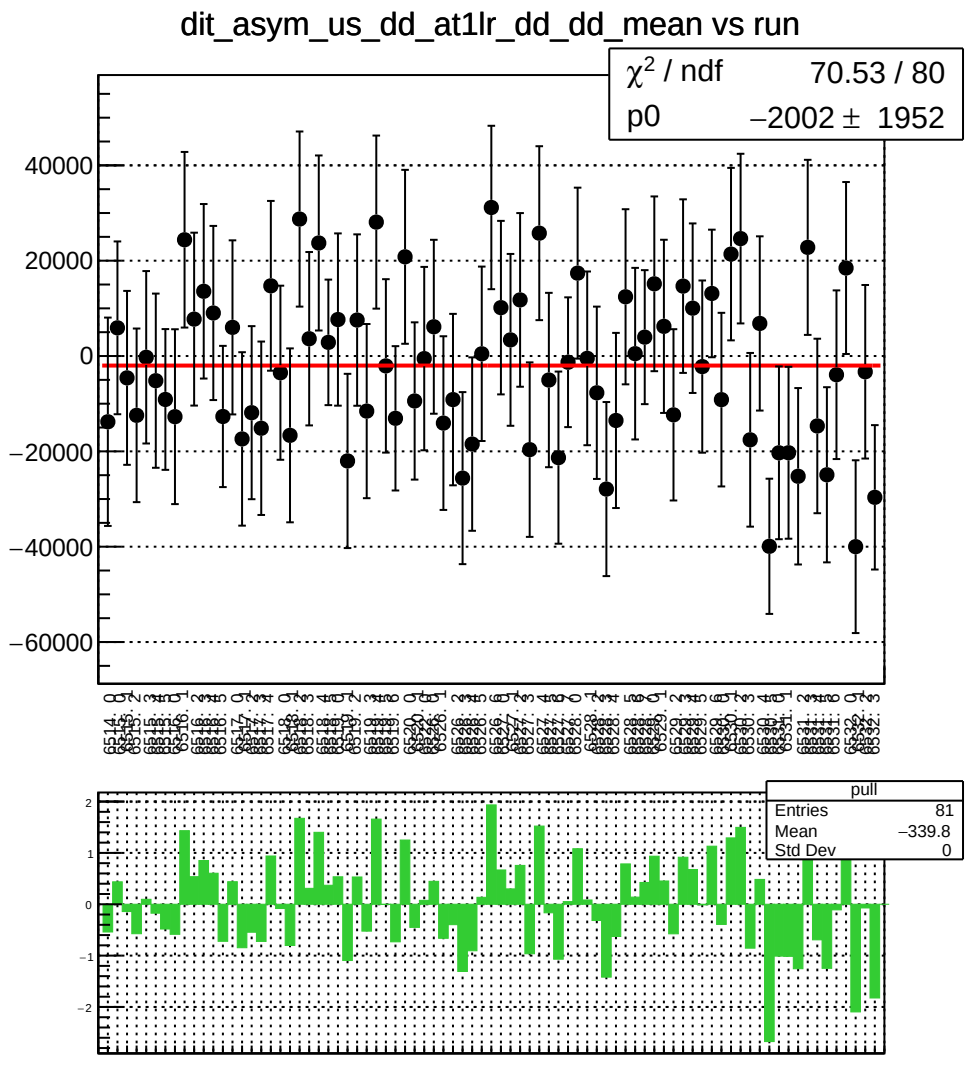

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 69.14 / 80
p0 −2038 ± 1951
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −307.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 81
Mean 0.007787
Std Dev 0.9239
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

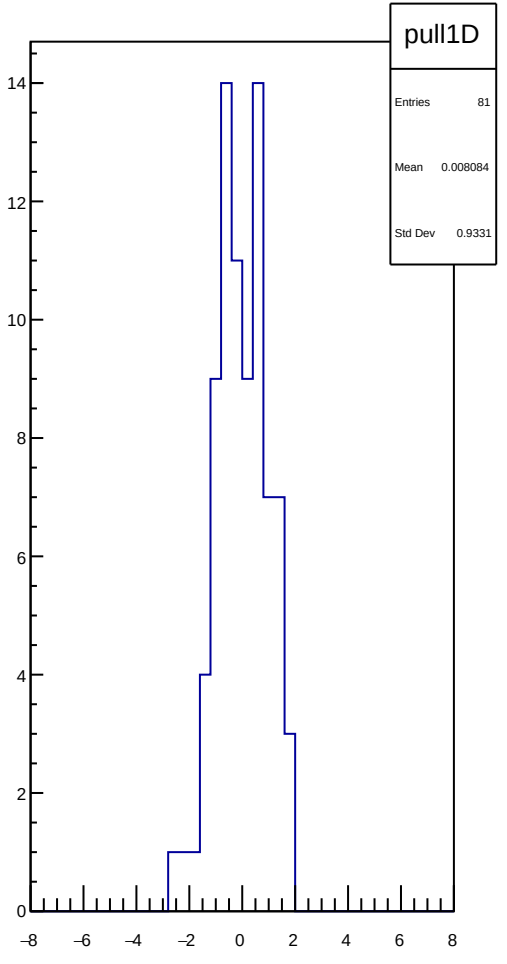

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 78.2 / 80
p0 1723 ± 1.379
1760
1740
1720
1700
1680

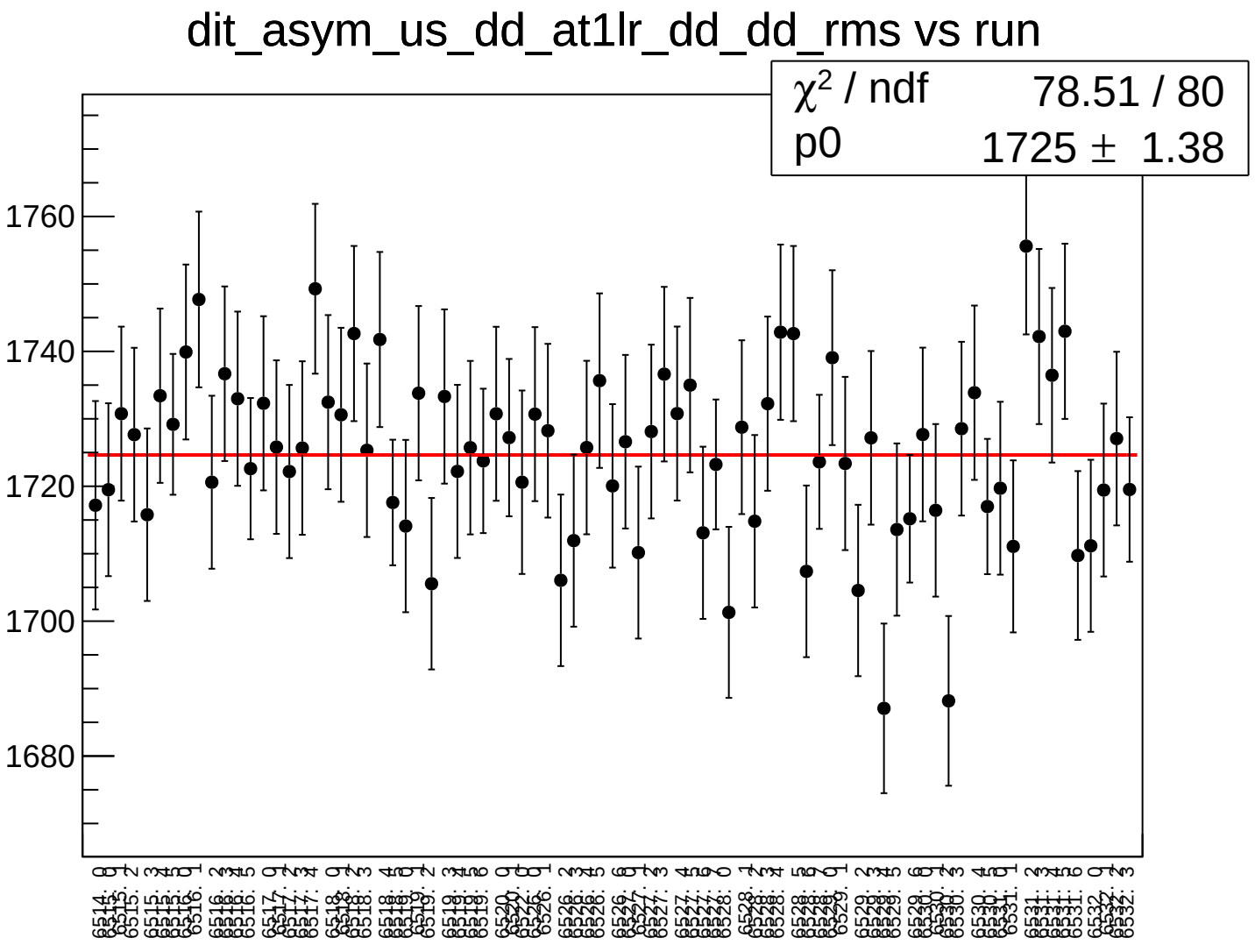

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 71.95 / 80
p0 588.2 ± 1109
pull
Entries 81
Mean −1077
Std Dev 0

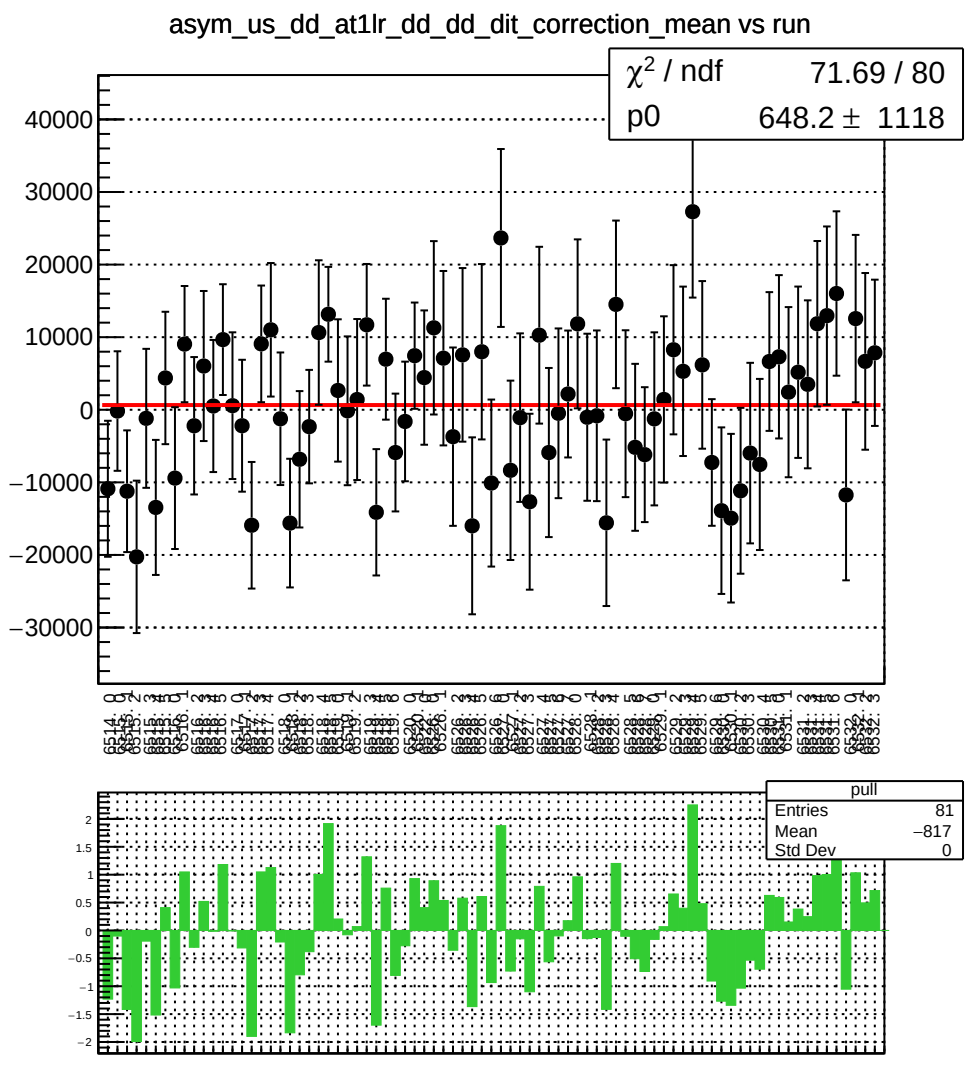

pull1D
Entries 81
Mean −0.004319
Std Dev 0.9425

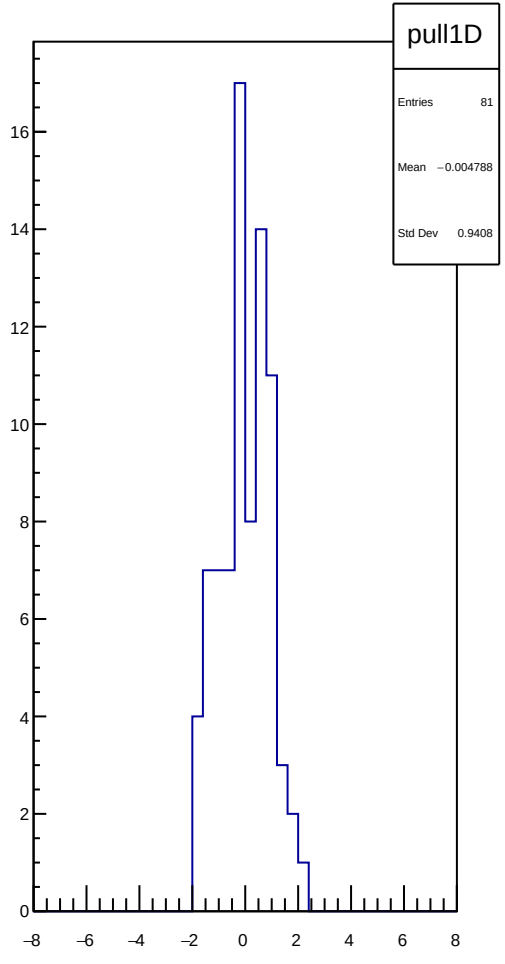

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.621e+04 / 80
p0 968.1 ± 0.784
1200
1100
1000
900
800
700

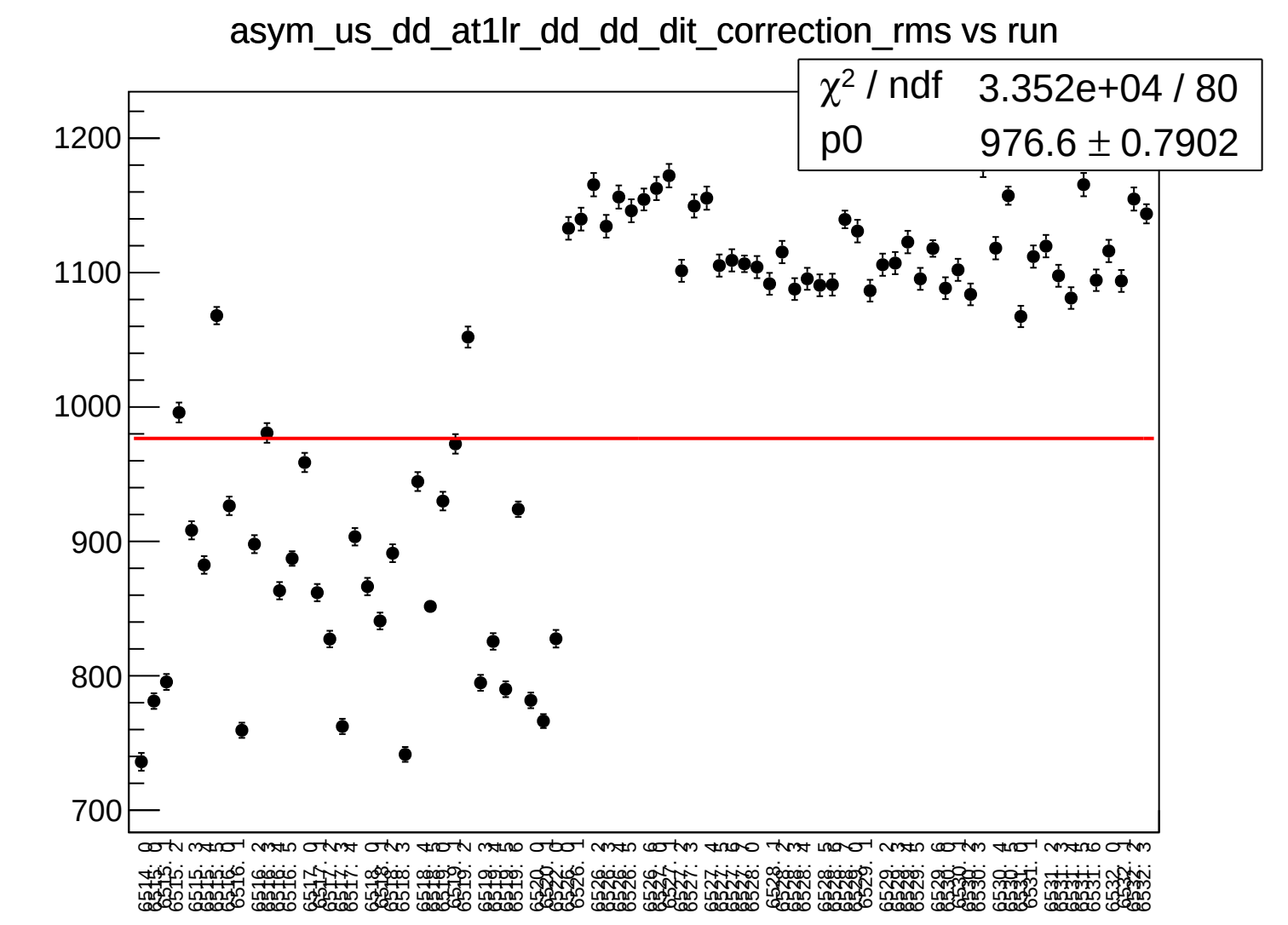

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 70.53 / 80
p0 −2002 ± 1952
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −339.8
Std Dev 0
2
1
0
−1
−2

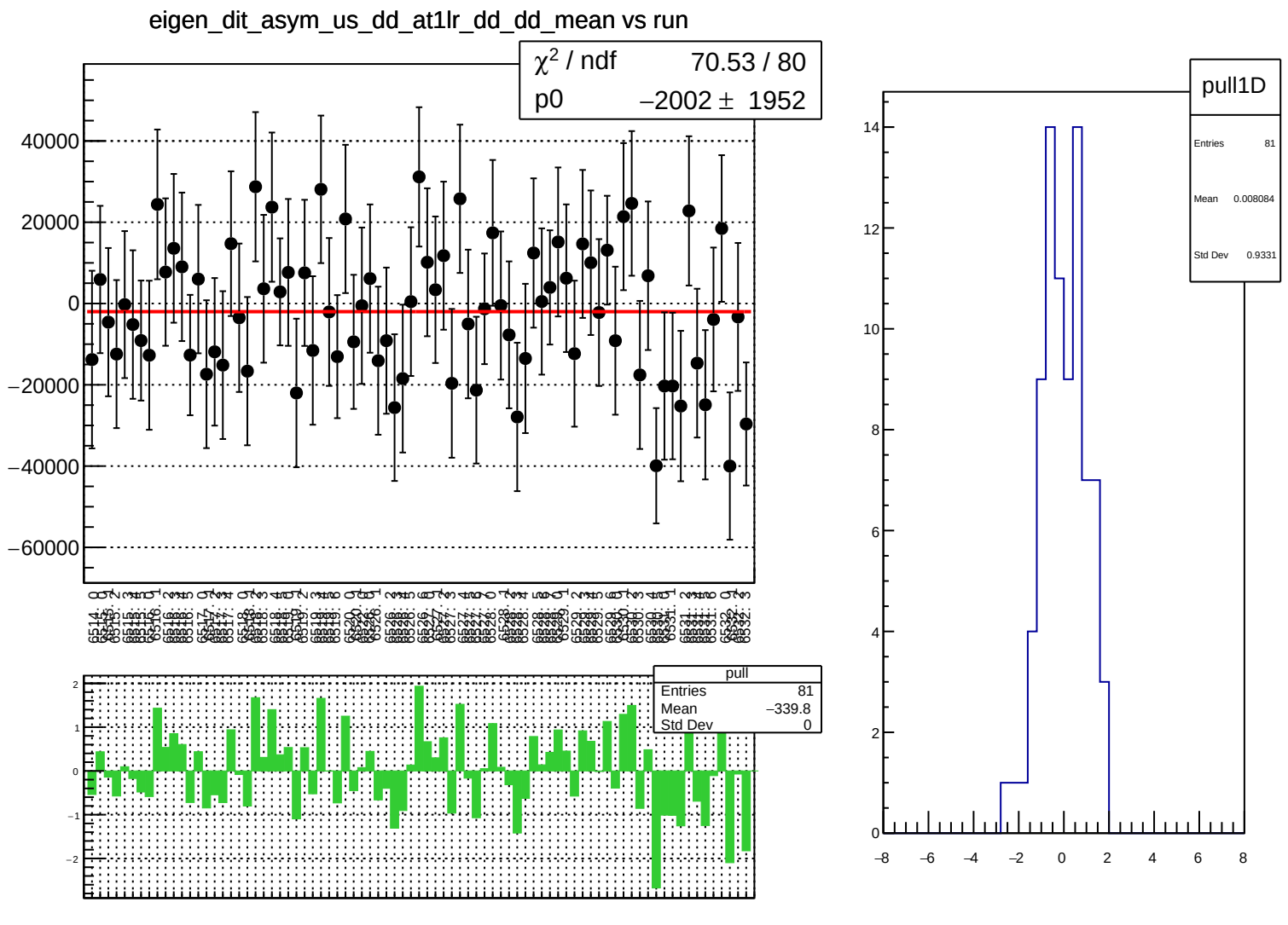

pull1D
Entries 81
Mean 0.008084
Std Dev 0.9331
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

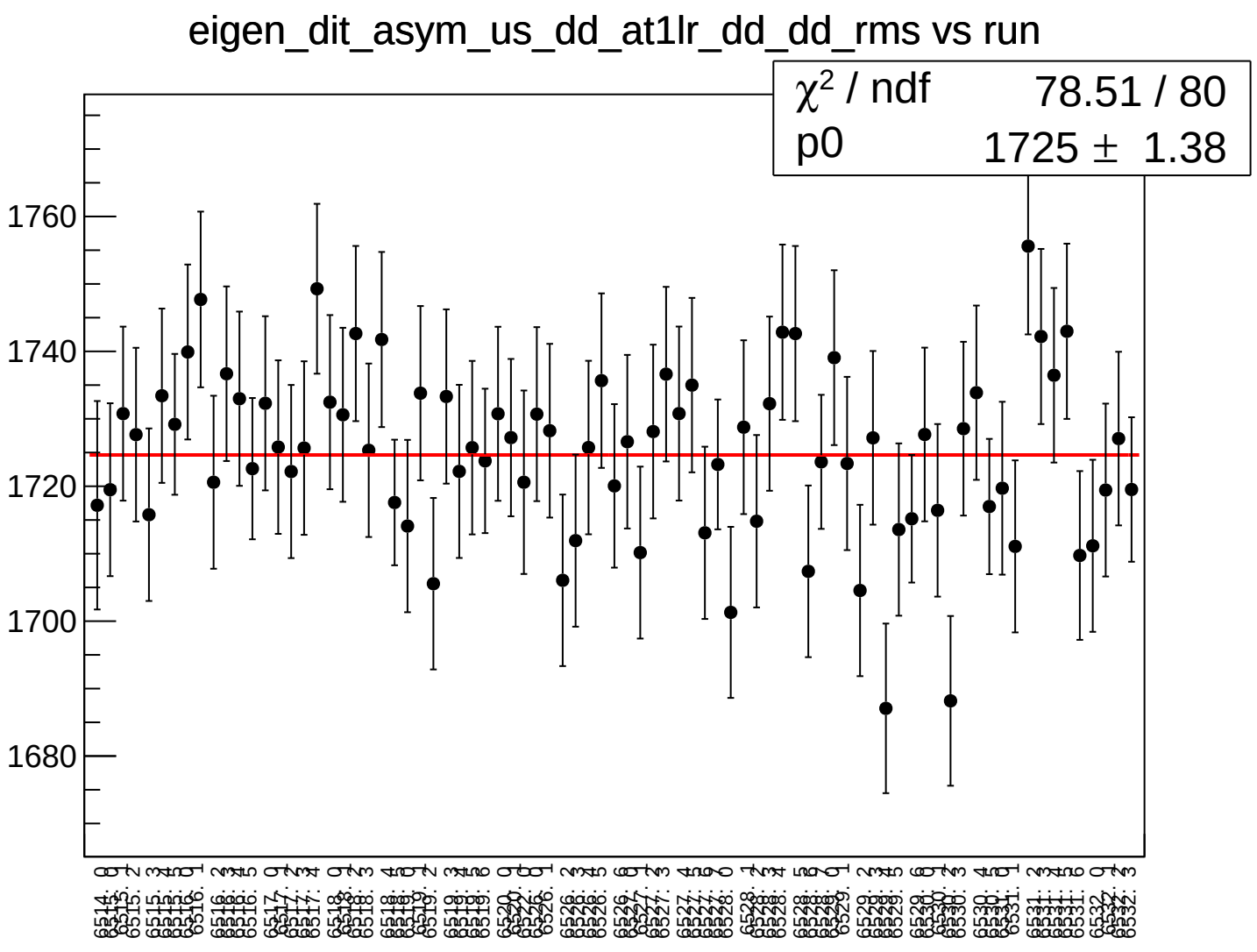

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 78.51 / 80
p0 1725 ± 1.38
1760
1740
1720
1700
1680

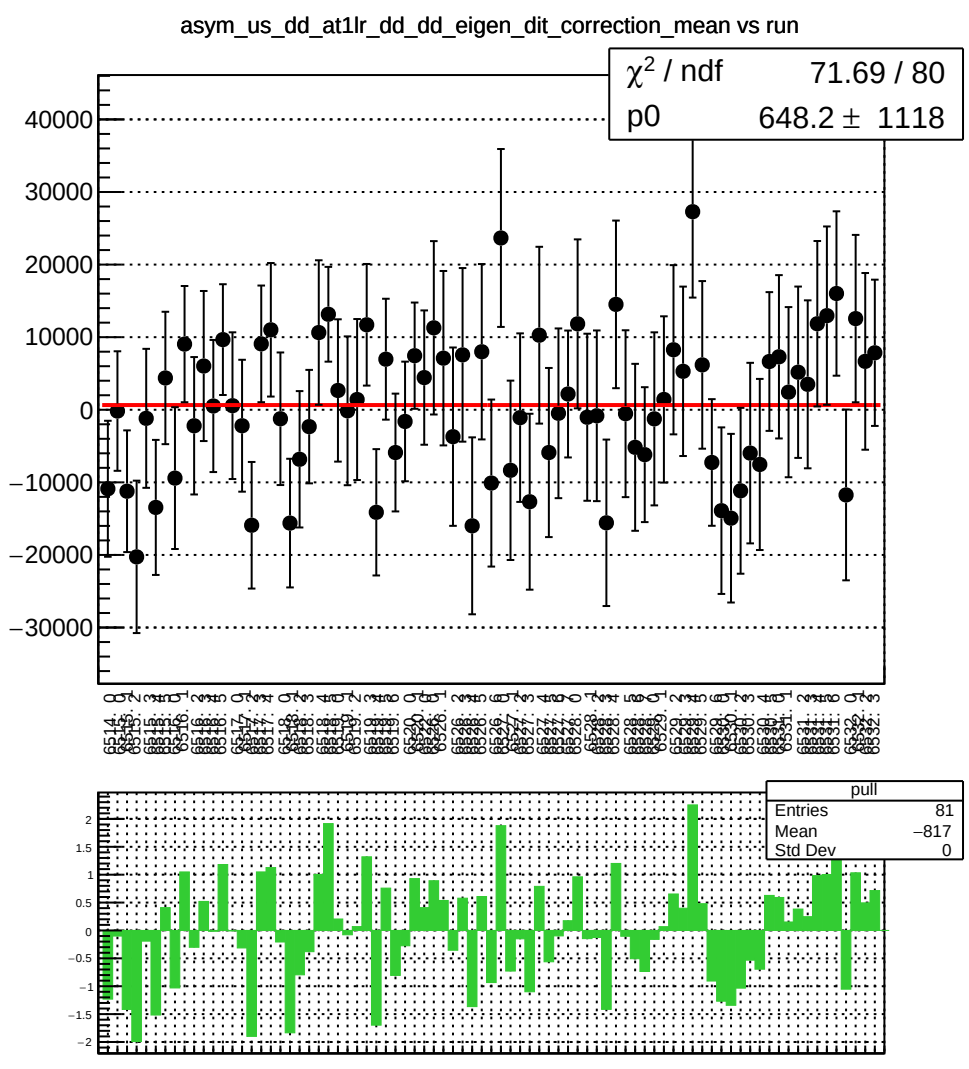

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
χ² / ndf 71.69 / 80
p0 648.2 ± 1118
pull
Entries 81
Mean −817
Std Dev 0

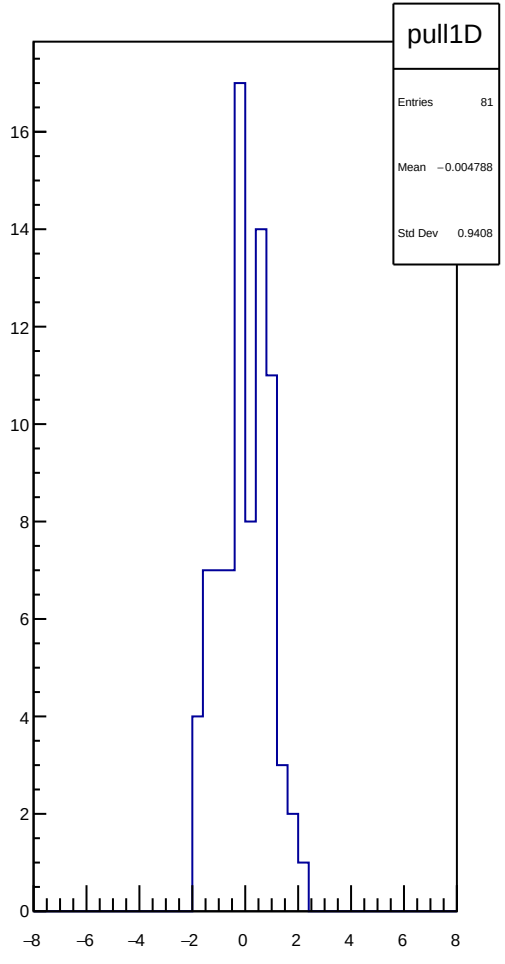

pull1D
Entries 81
Mean −0.004788
Std Dev 0.9408

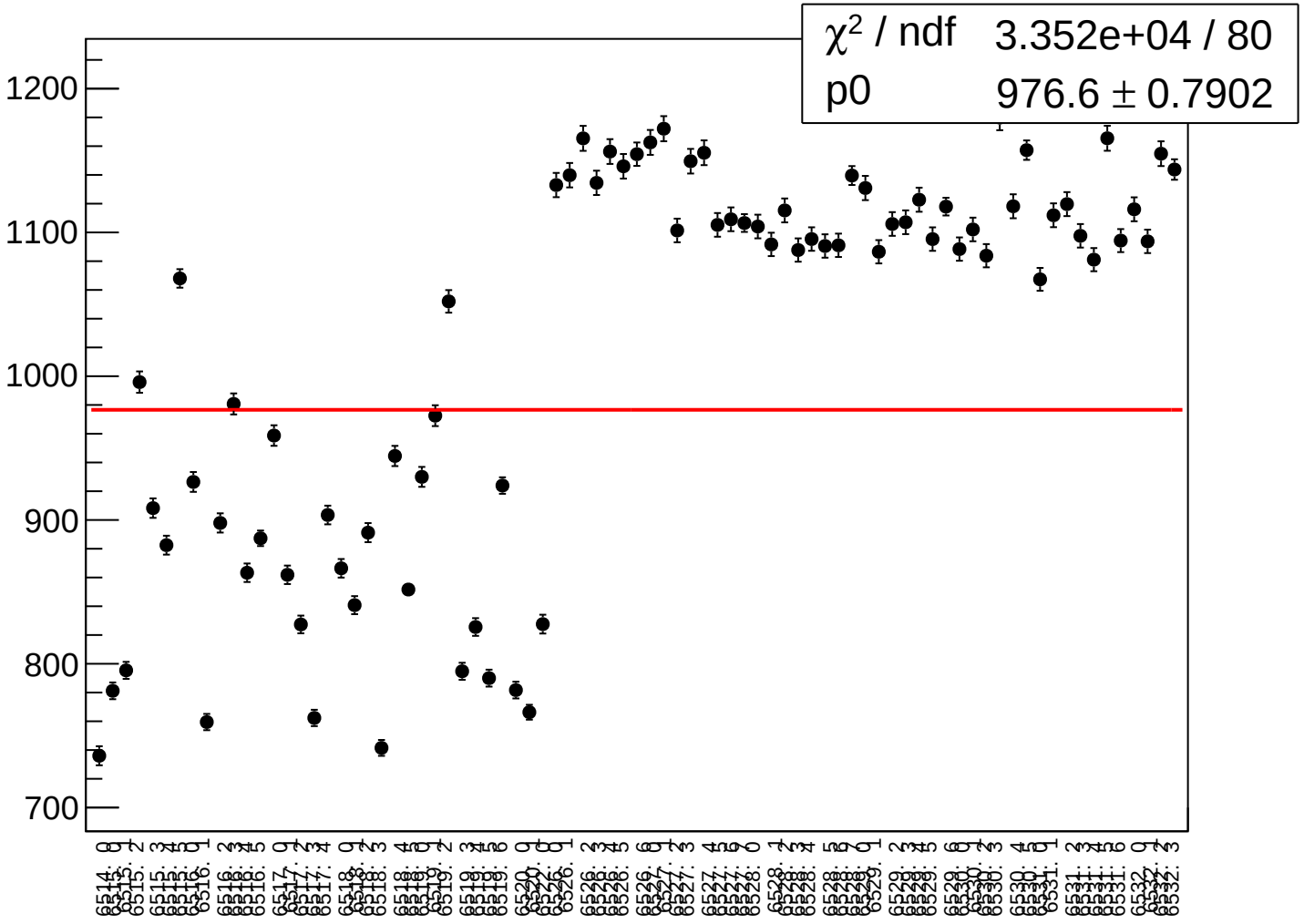

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 3.352e+04 / 80
p0 976.6 ± 0.7902
1200
1100
1000
900
800
700

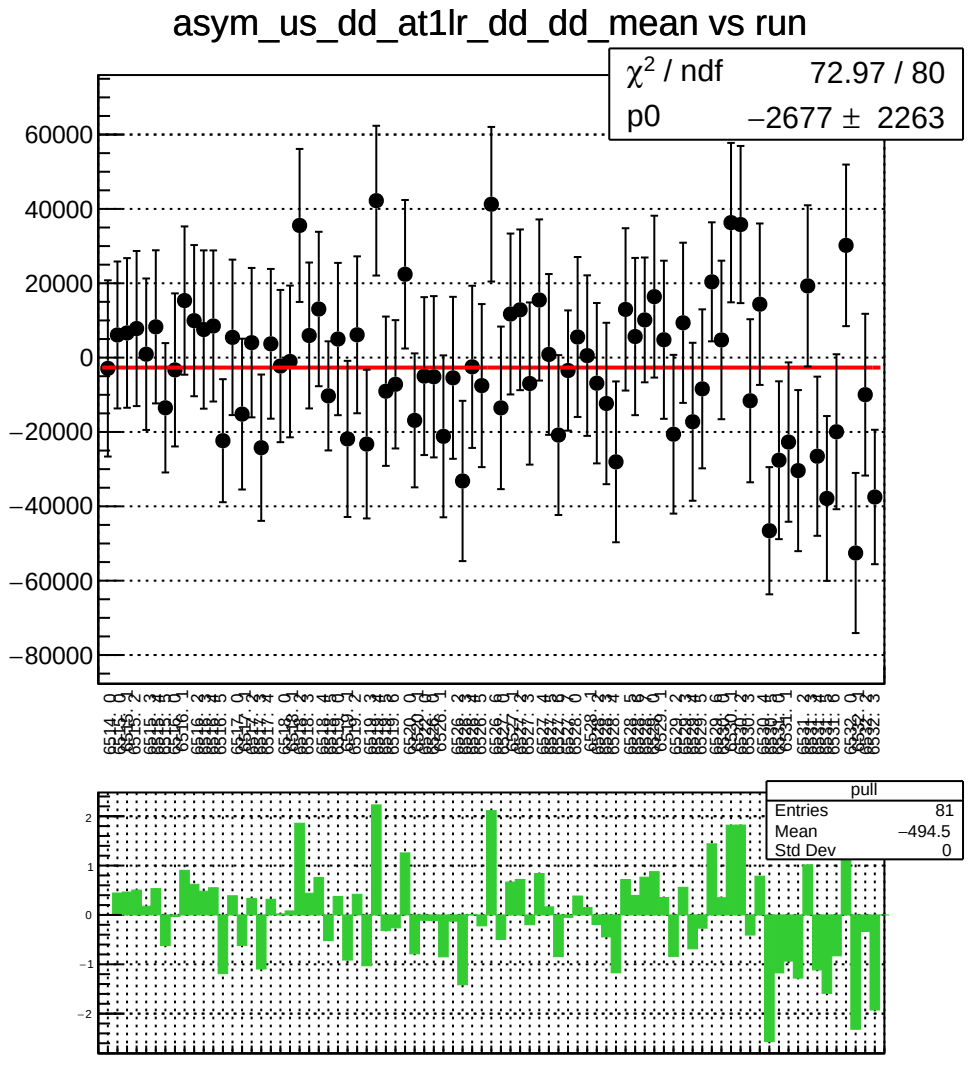

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 70.53 / 80
p0 −2002 ± 1952
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −339.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 81
Mean 0.008084
Std Dev 0.9331
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

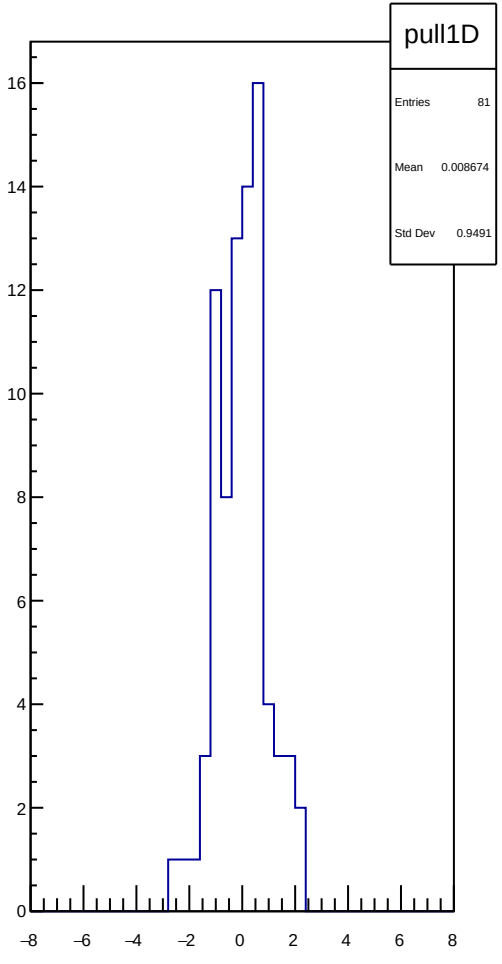

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 78.51 / 80
p0 1725 ± 1.38
1760
1740
1720
1700
1680

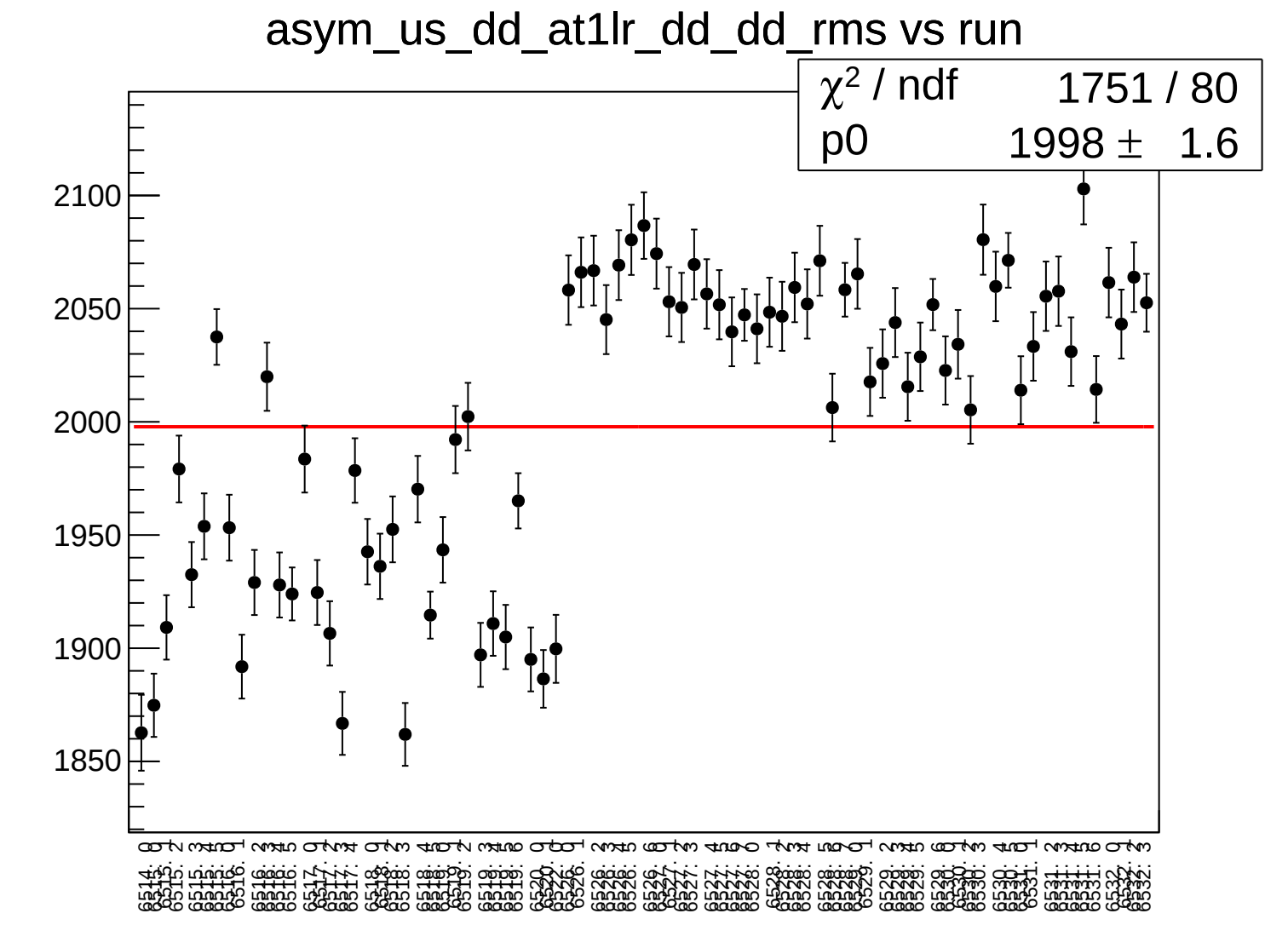

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 71.69 / 80
p0 648.2 ± 1118
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean −817
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

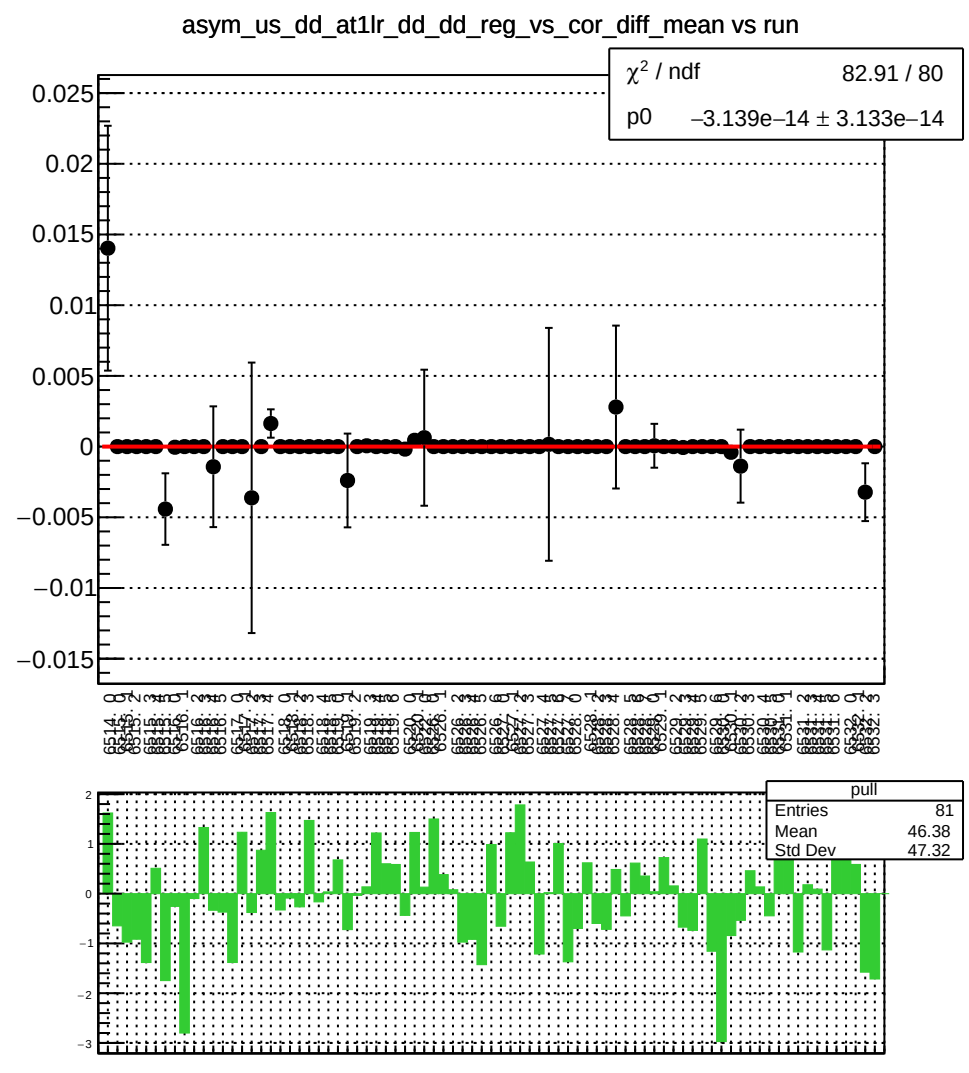

pull1D
Entries 81
Mean −0.004788
Std Dev 0.9408
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

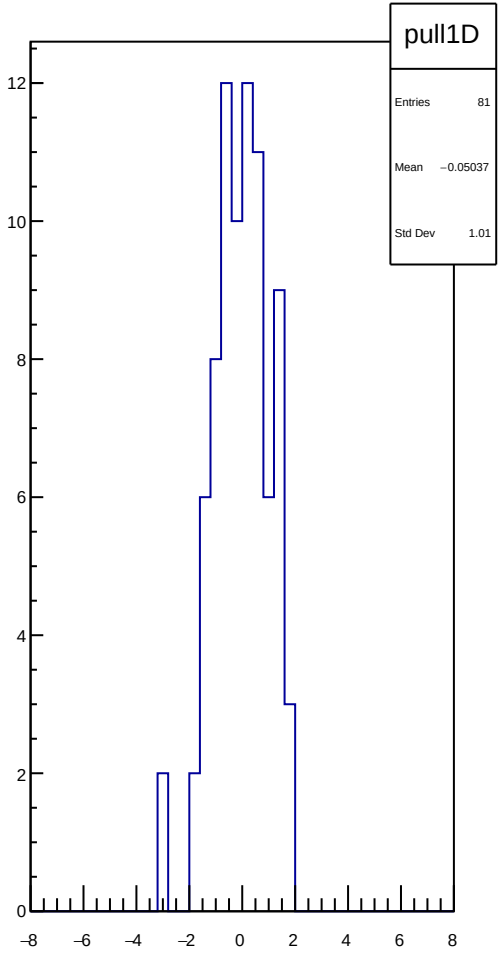

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.352e+04 / 80
p0 976.6 ± 0.7902
1200
1100
1000
900
800
700

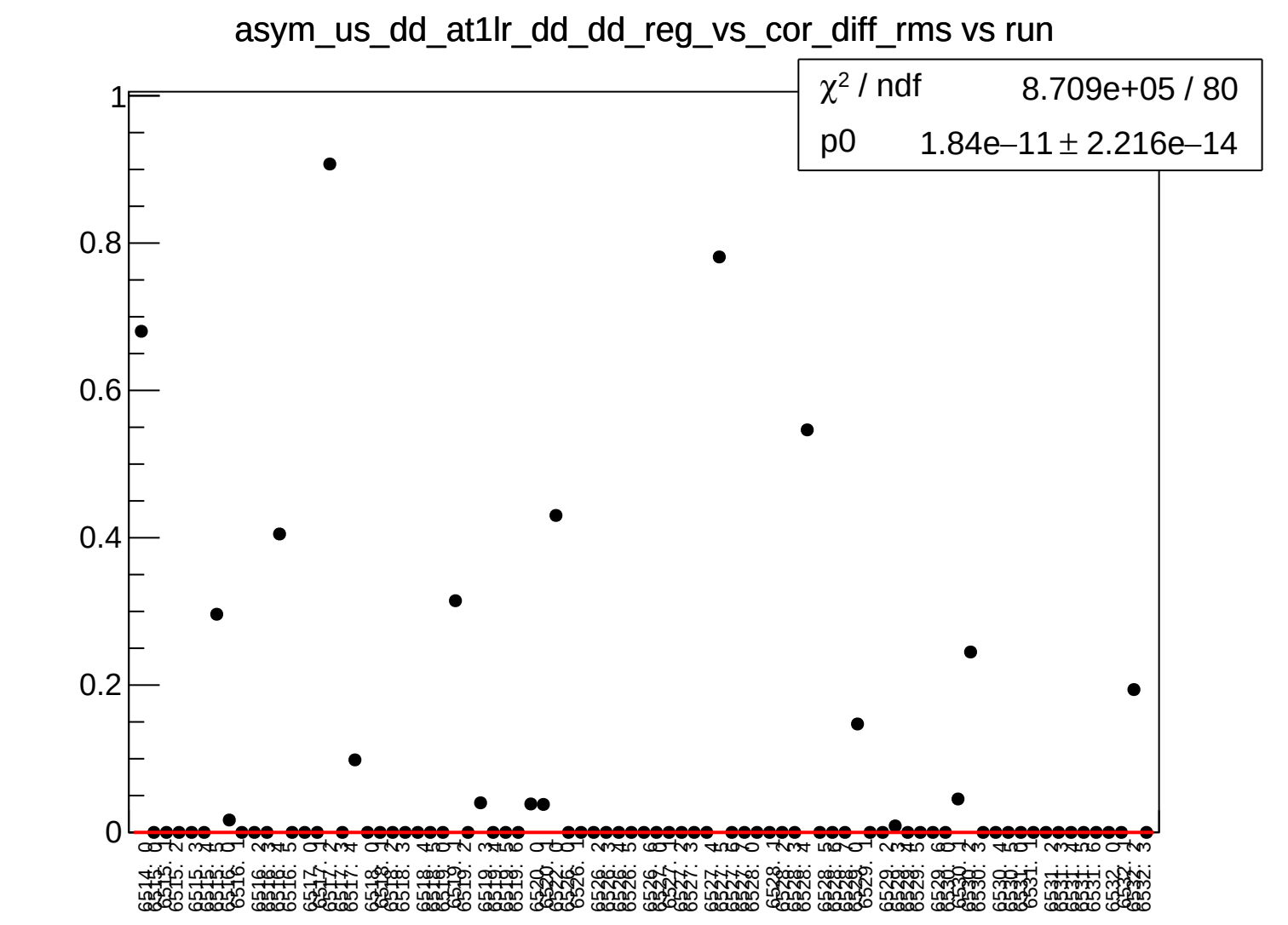

asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 72.97 / 80
p0 −2677 ± 2263
pull
Entries 81
Mean −494.5
Std Dev 0

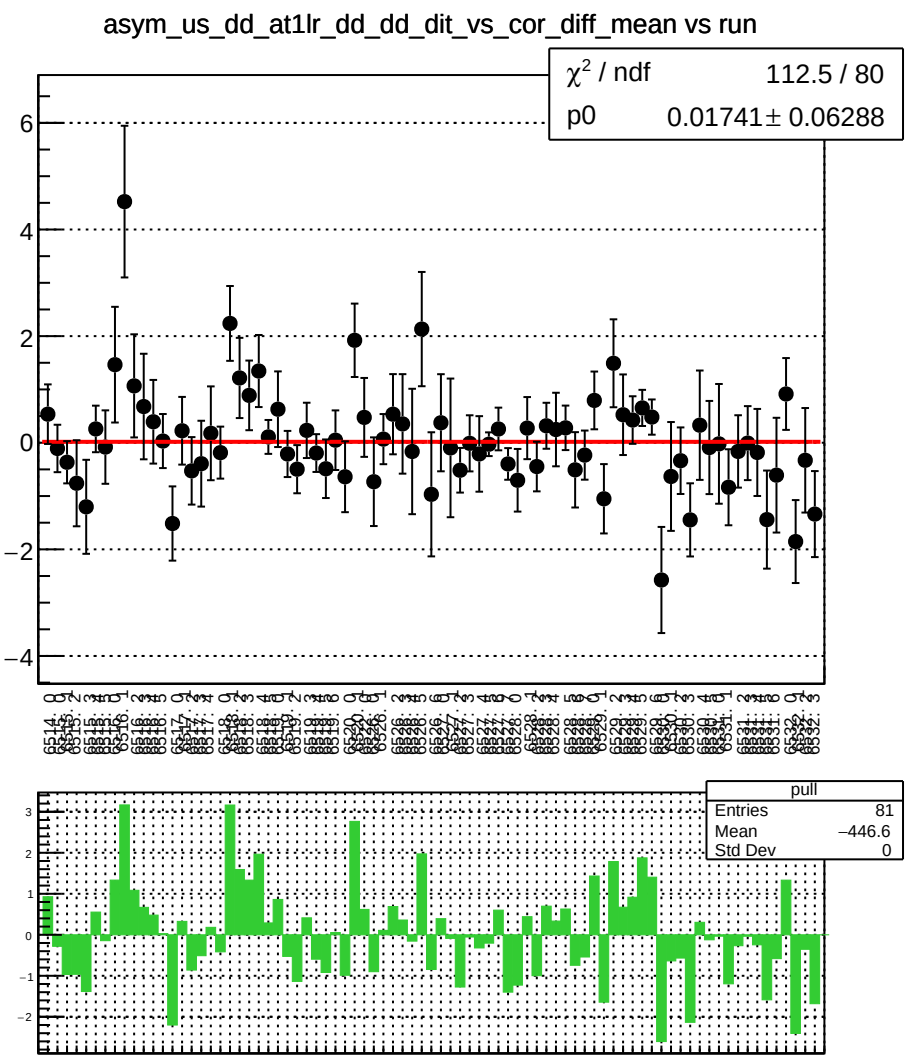

pull1D
Entries 81
Mean 0.008674
Std Dev 0.9491

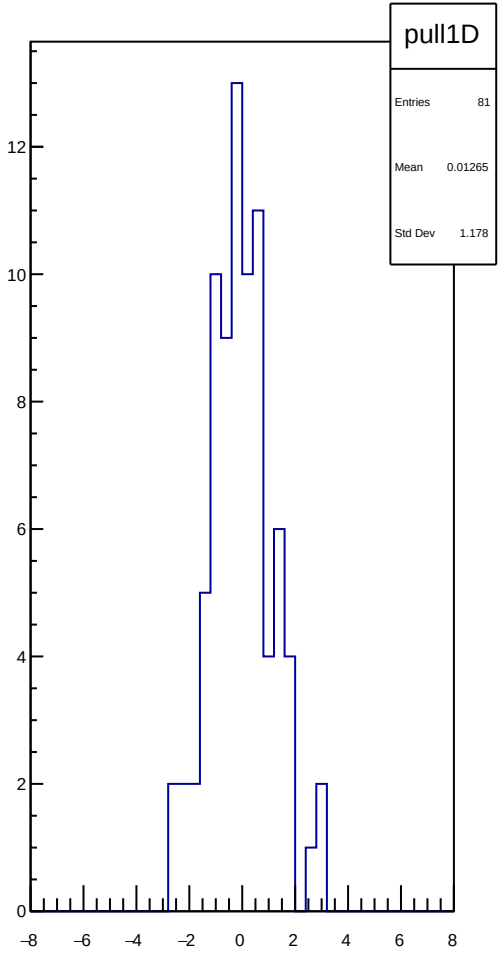

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 1751 / 80
p0 1998 ± 1.6
2100
2050
2000
1950
1900
1850

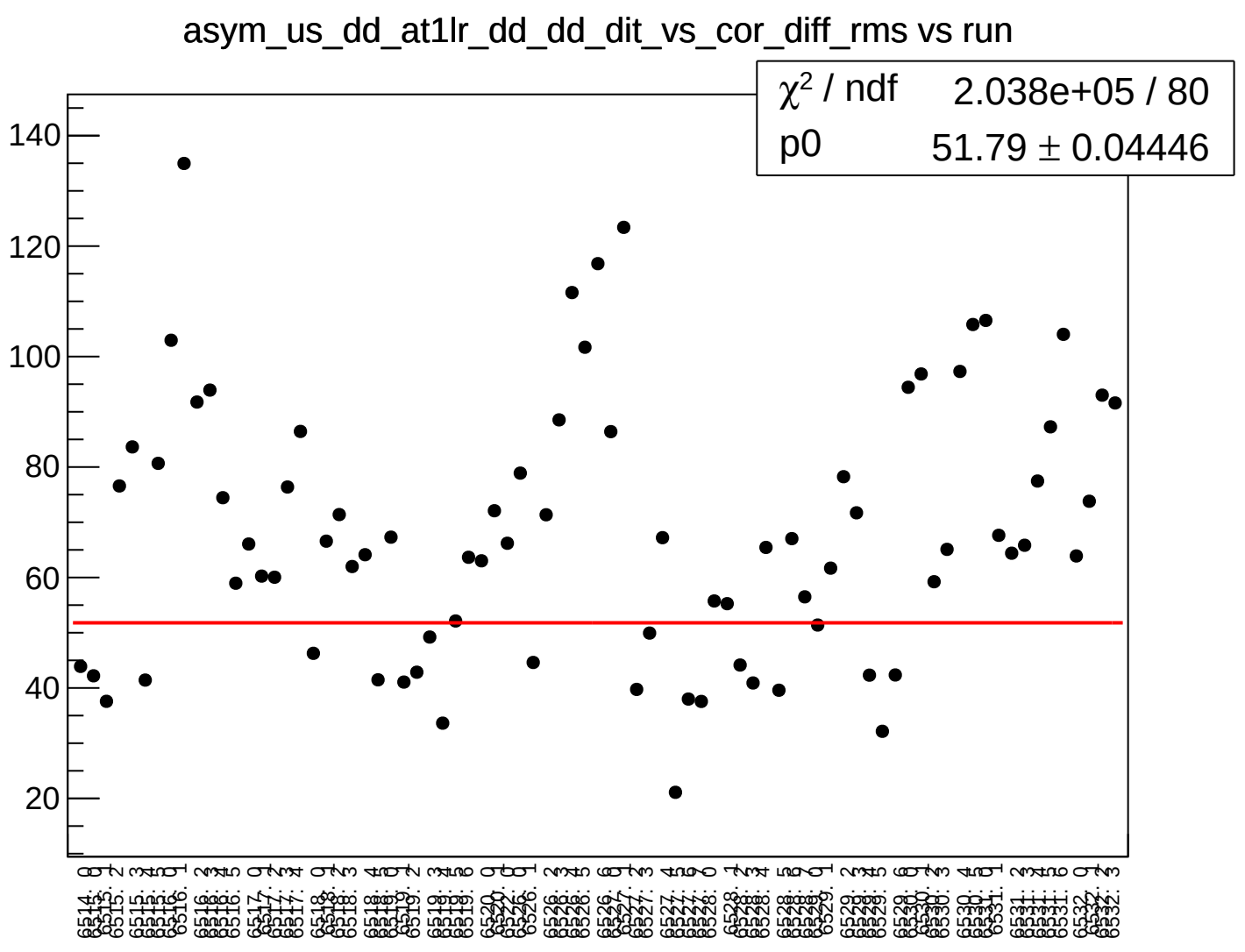

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 82.91 / 80
p0 −3.139e−14 ± 3.133e−14
pull
Entries 81
Mean 46.38
Std Dev 47.32

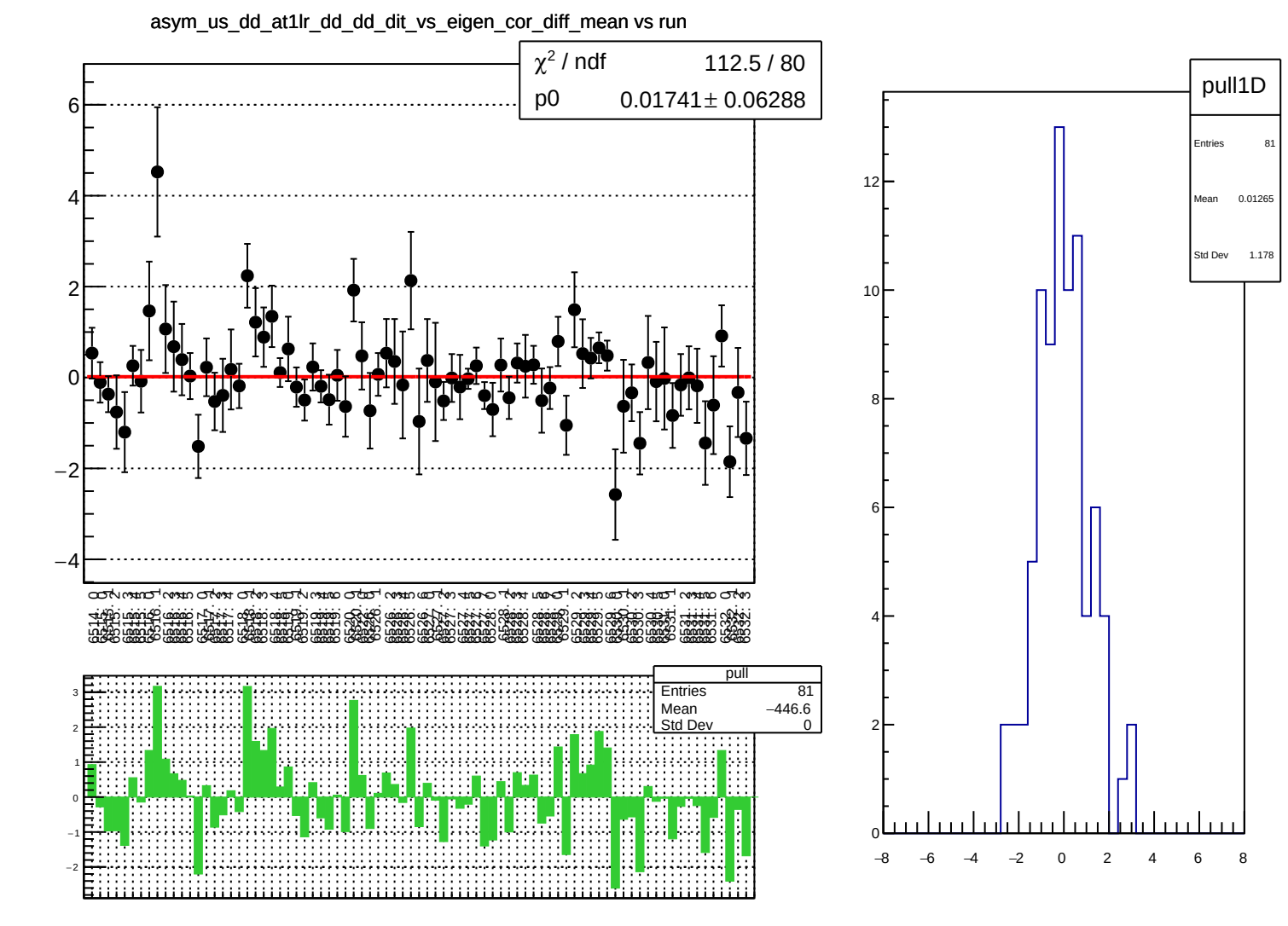

pull1D
Entries 81
Mean −0.05037
Std Dev 1.01

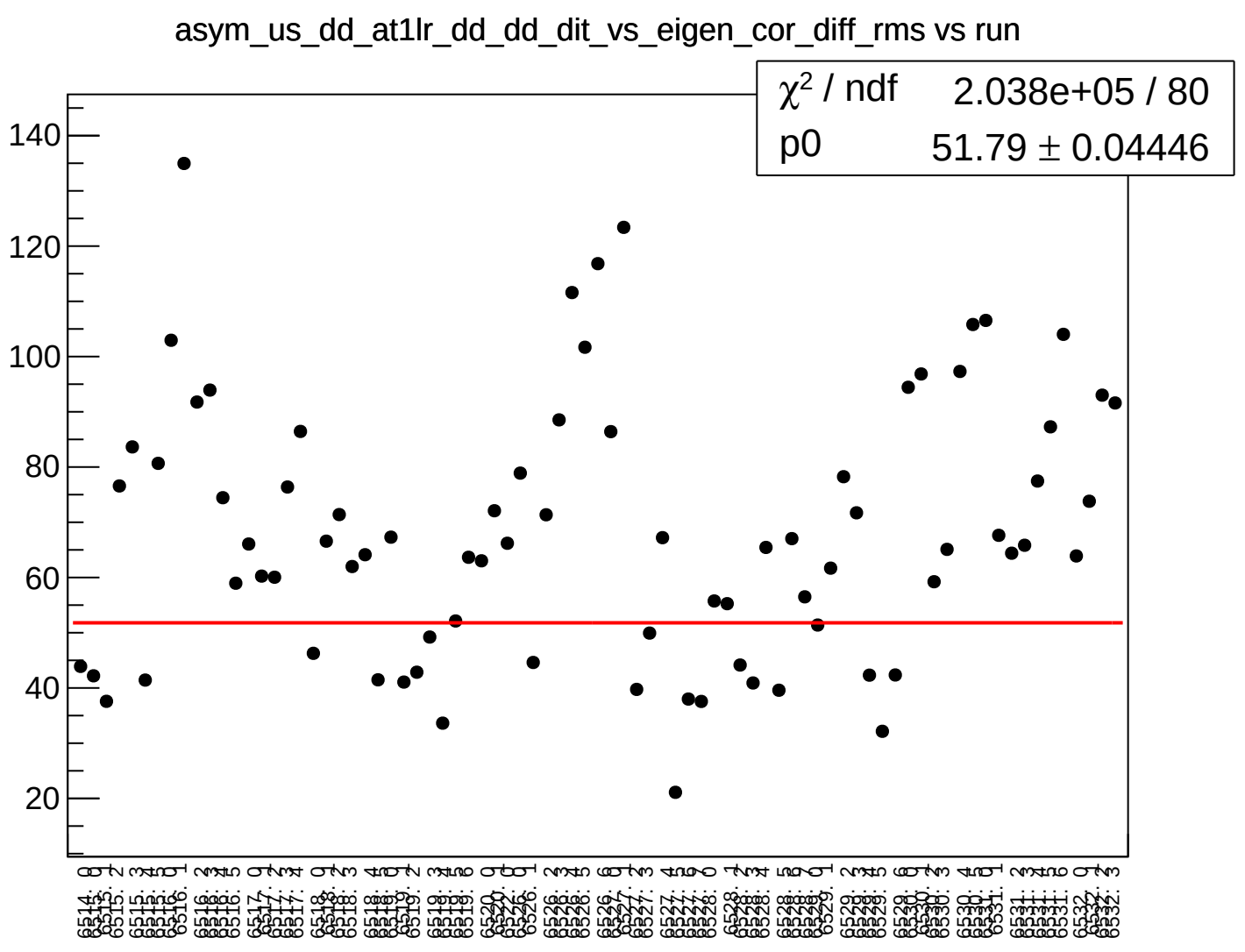

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.709e+05 / 80
p0 1.84e−11 ± 2.216e−14
1
0.8
0.6
0.4
0.2
0

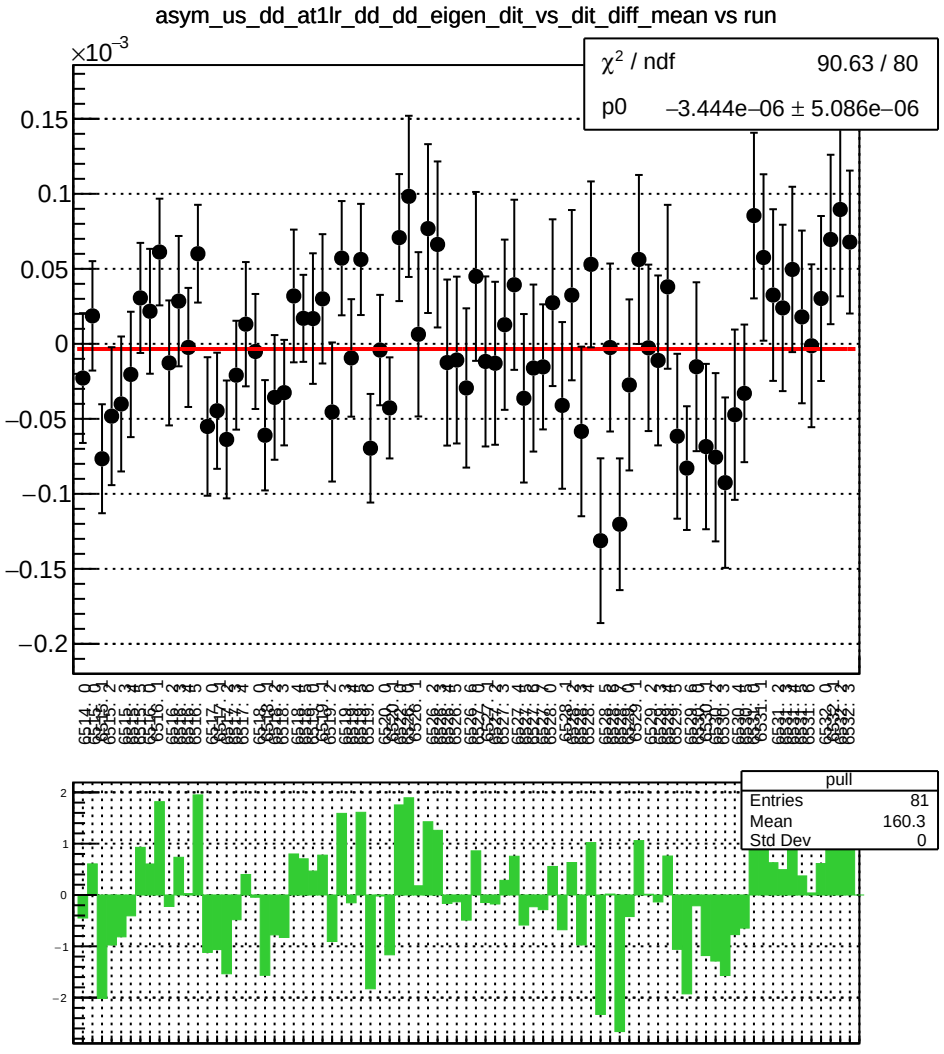

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 112.5 / 80
p0 0.01741 ± 0.06288
pull
Entries 81
Mean −446.6
Std Dev 0

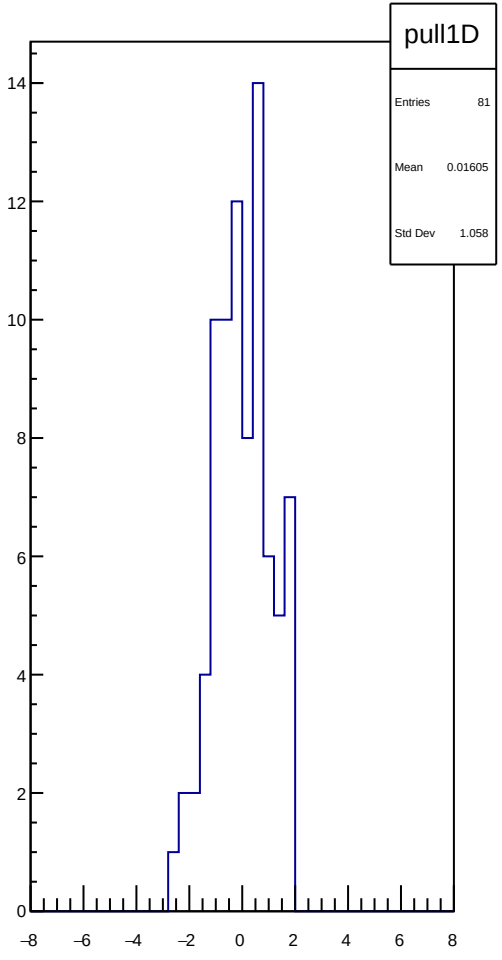

pull1D
Entries 81
Mean 0.01265
Std Dev 1.178

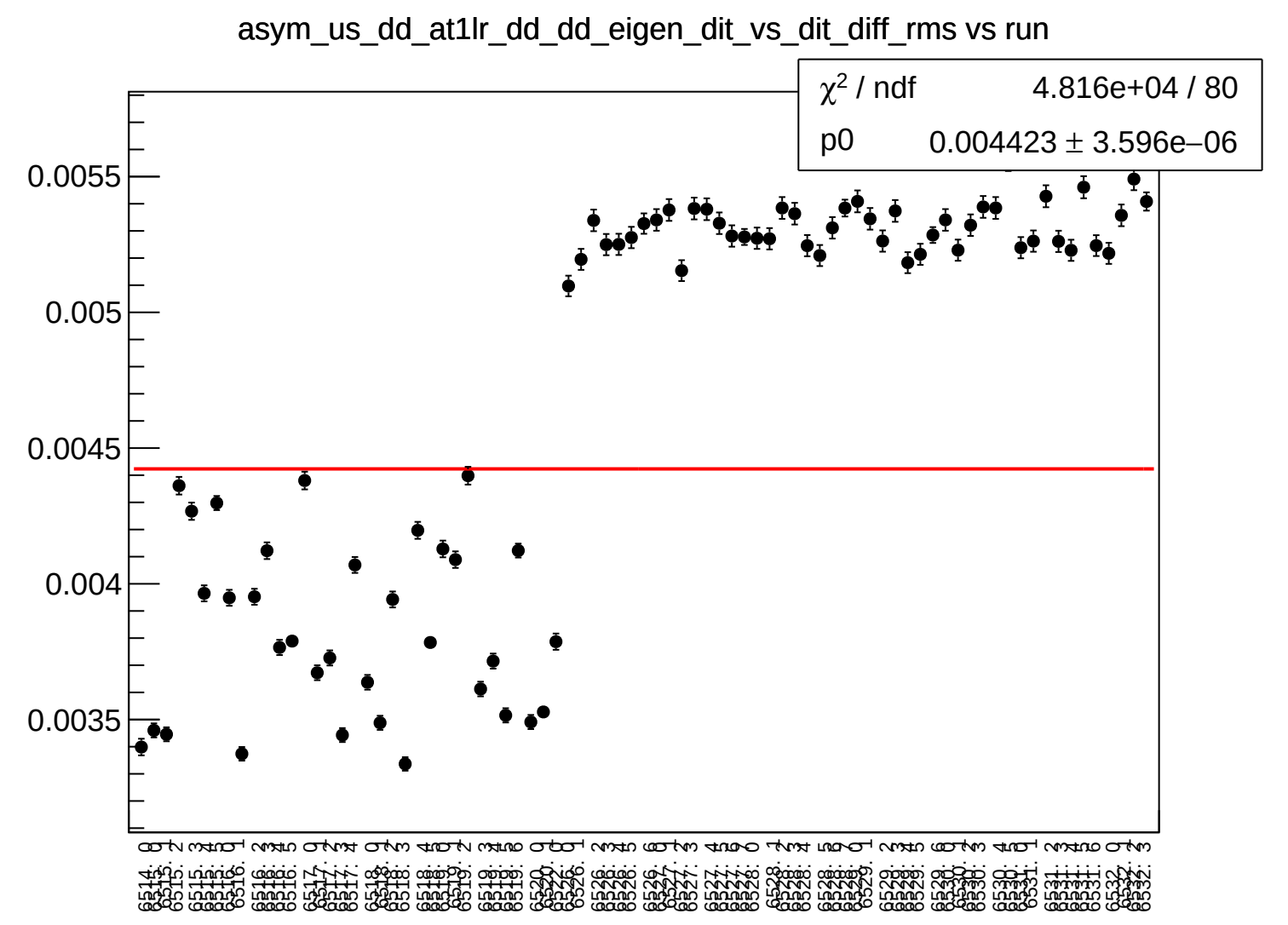

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.038e+05 / 80
p0 51.79 ± 0.04446
140
120
100
80
60
40
20

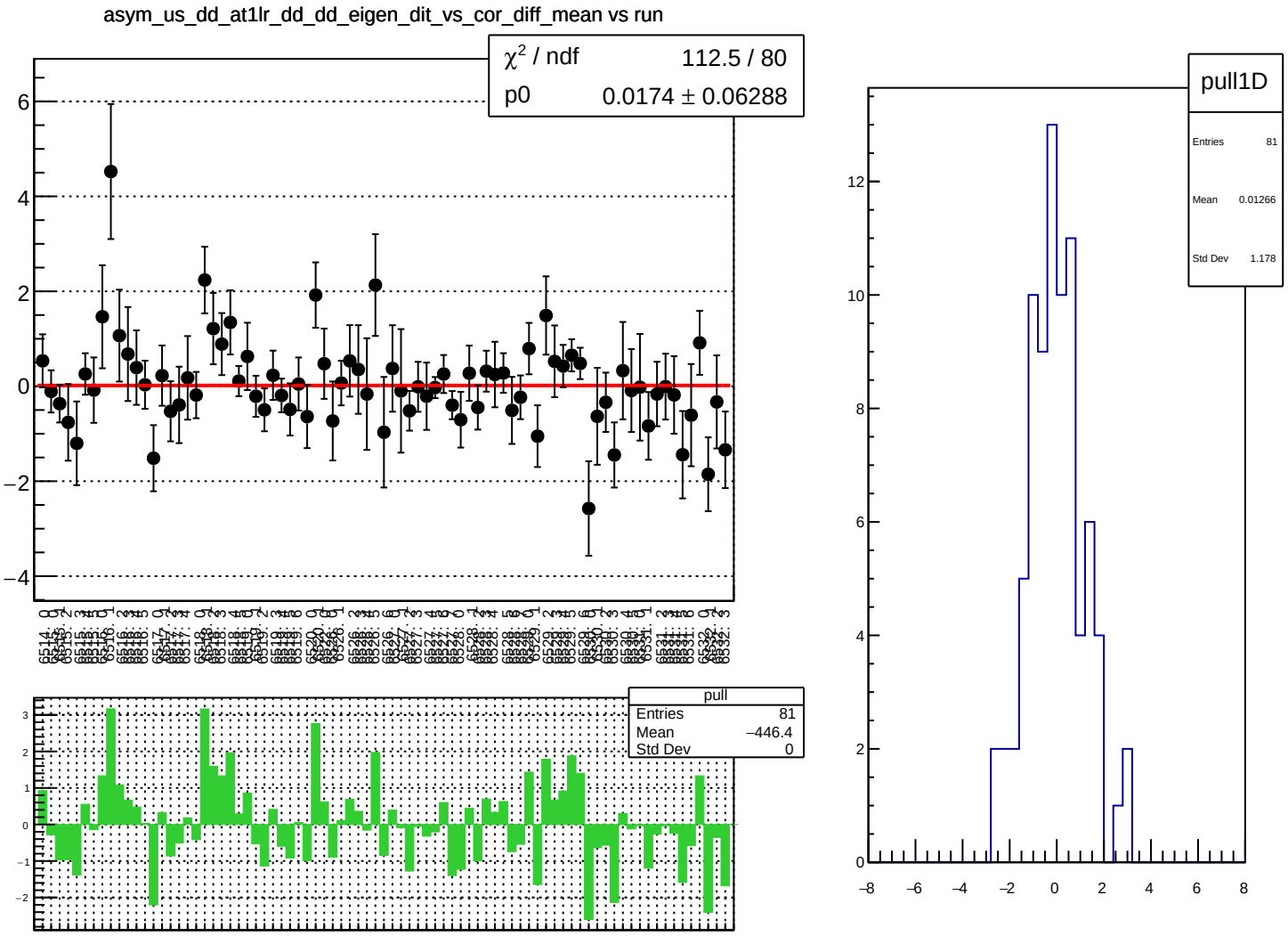

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.5 / 80
p0 0.01741 ± 0.06288
pull
Entries 81
Mean −446.6
Std Dev 0
pull1D
Entries 81
Mean 0.01265
Std Dev 1.178

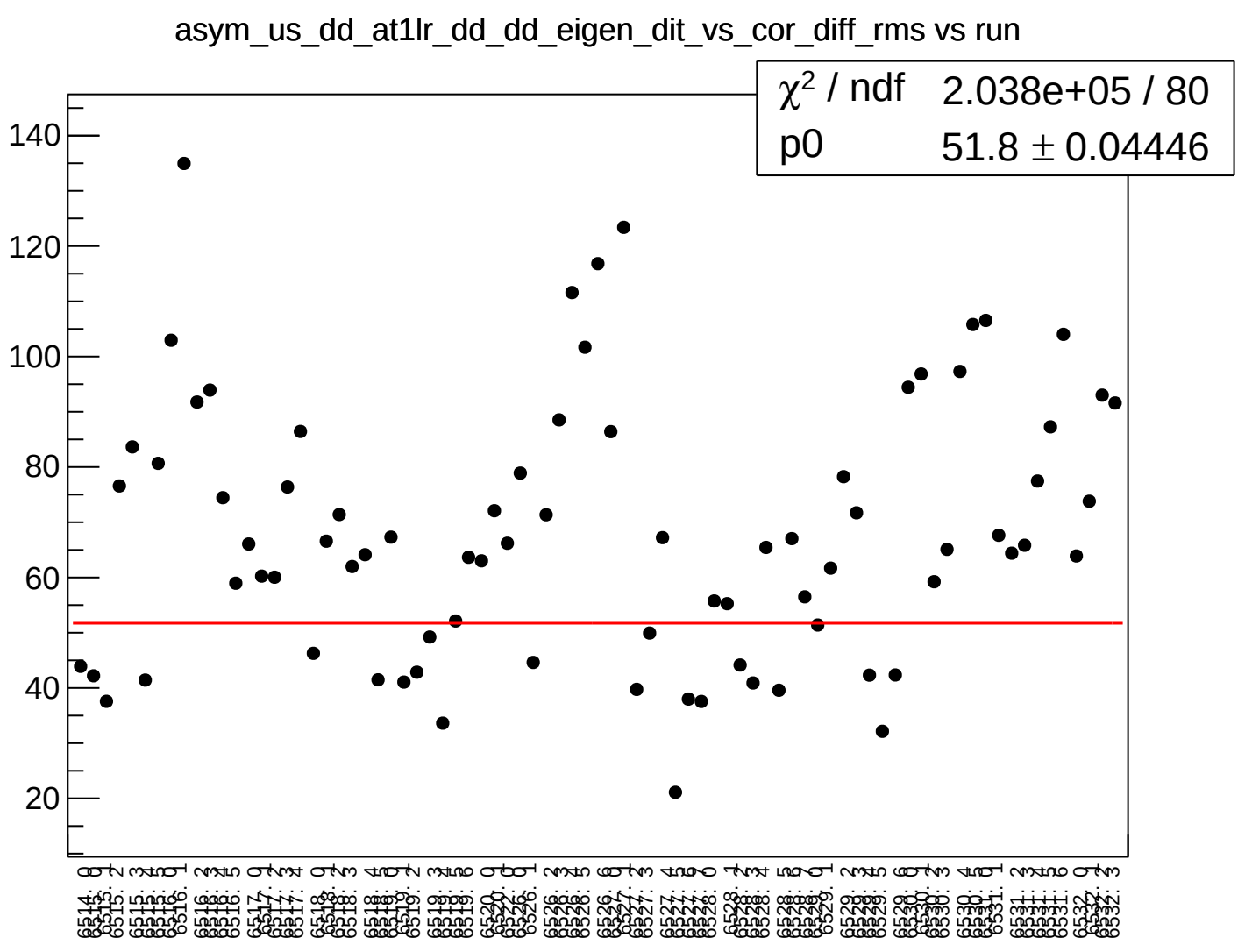

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.038e+05 / 80
p0 51.79 ± 0.04446
140
120
100
80
60
40
20

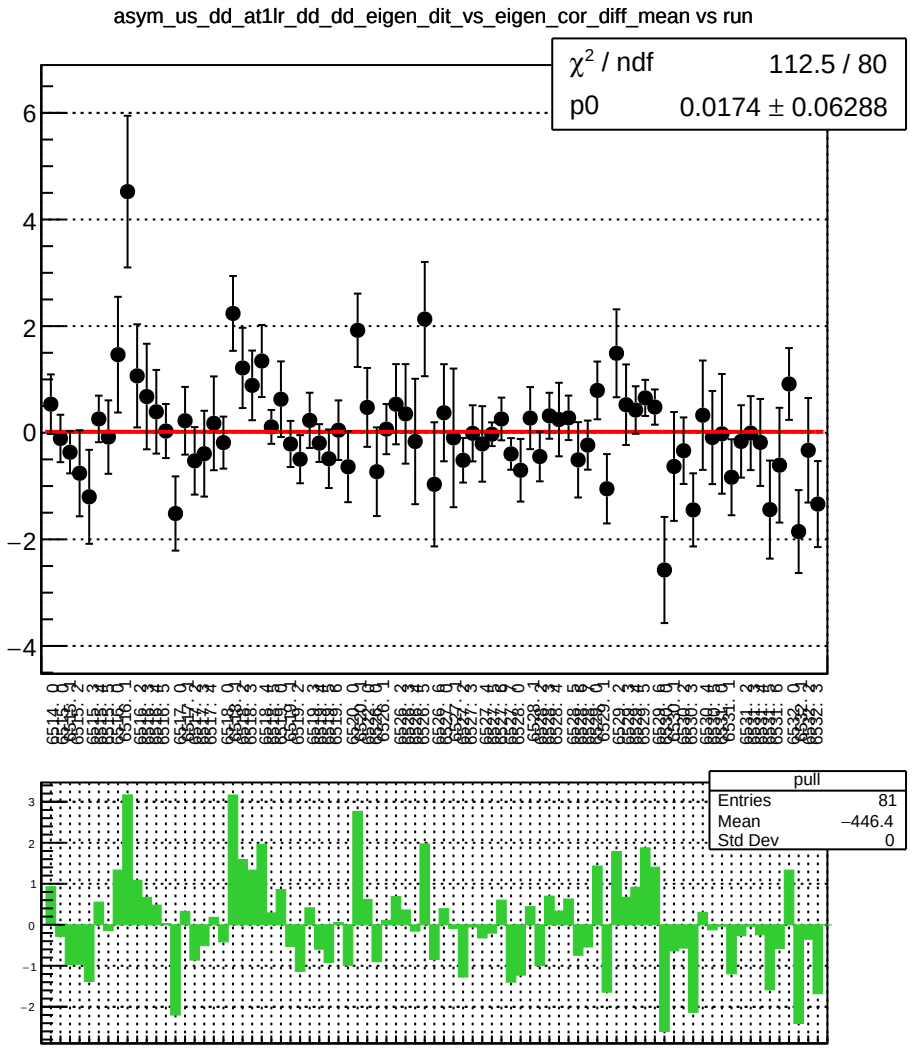

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.63 / 80
p0 −3.444e−06 ± 5.086e−06
pull
Entries 81
Mean 160.3
Std Dev 0

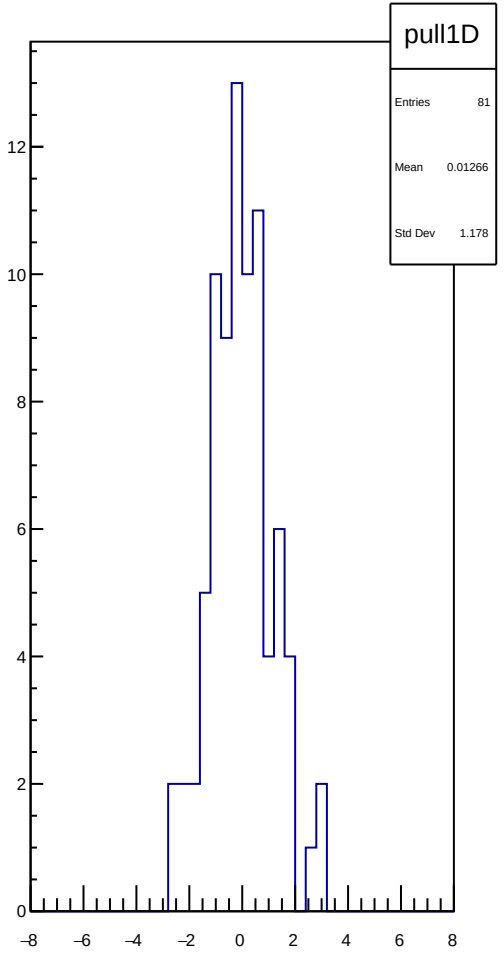

pull1D
Entries 81
Mean 0.01605
Std Dev 1.058

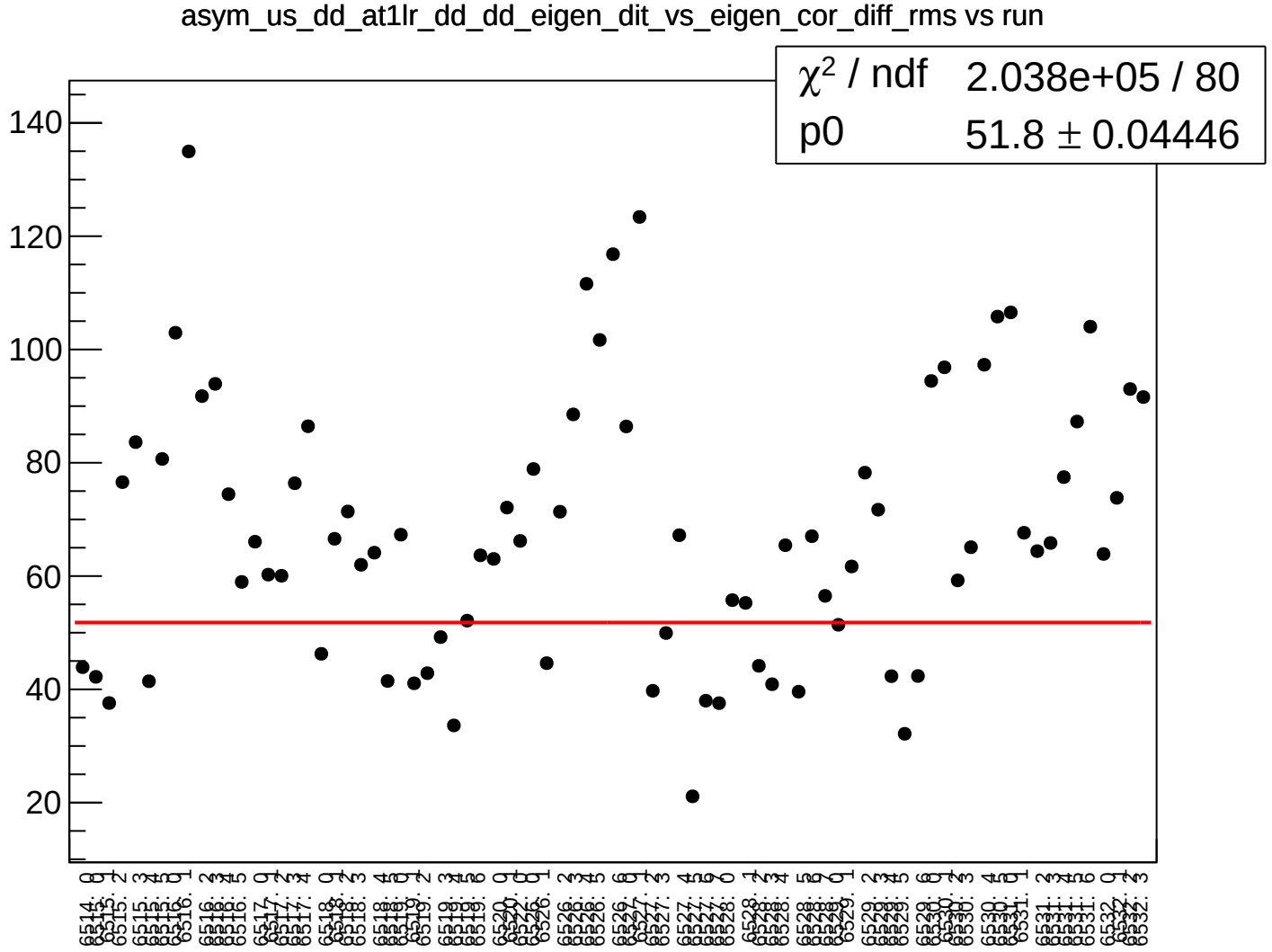

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.816e+04 / 80
p0 0.004423 ± 3.596e−06
0.0055
0.005
0.0045
0.004
0.0035

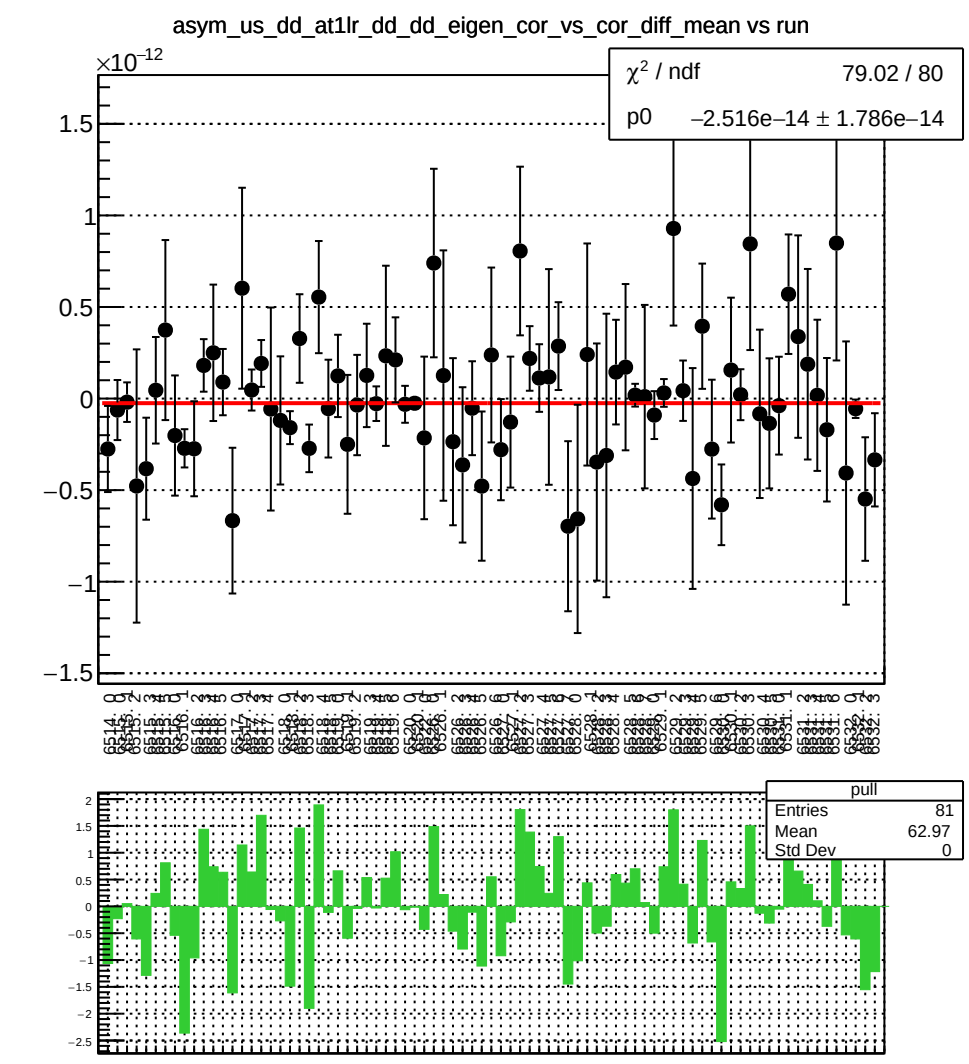

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 112.5 / 80
p0 0.0174 ± 0.06288
pull
Entries 81
Mean −446.4
Std Dev 0
pull1D
Entries 81
Mean 0.01266
Std Dev 1.178

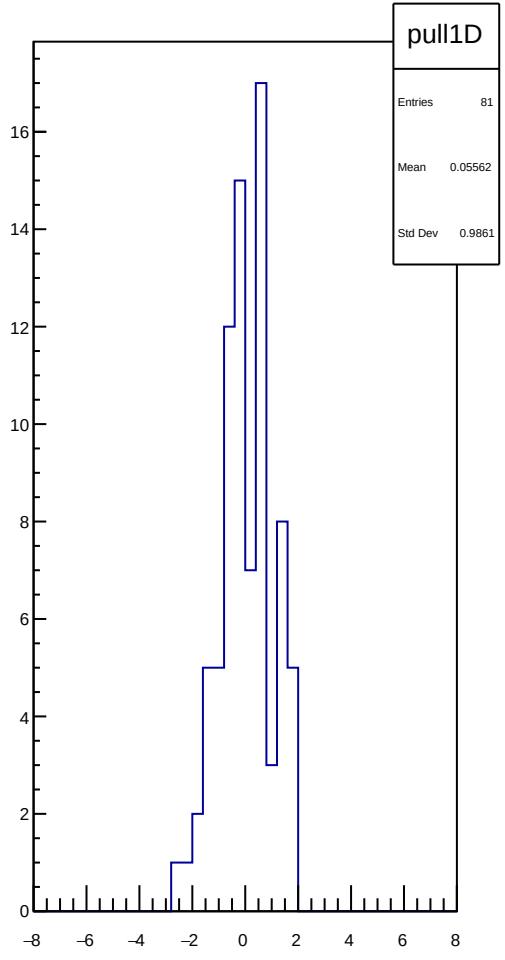

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.038e+05 / 80
p0 51.8 ± 0.04446
140
120
100
80
60
40
20

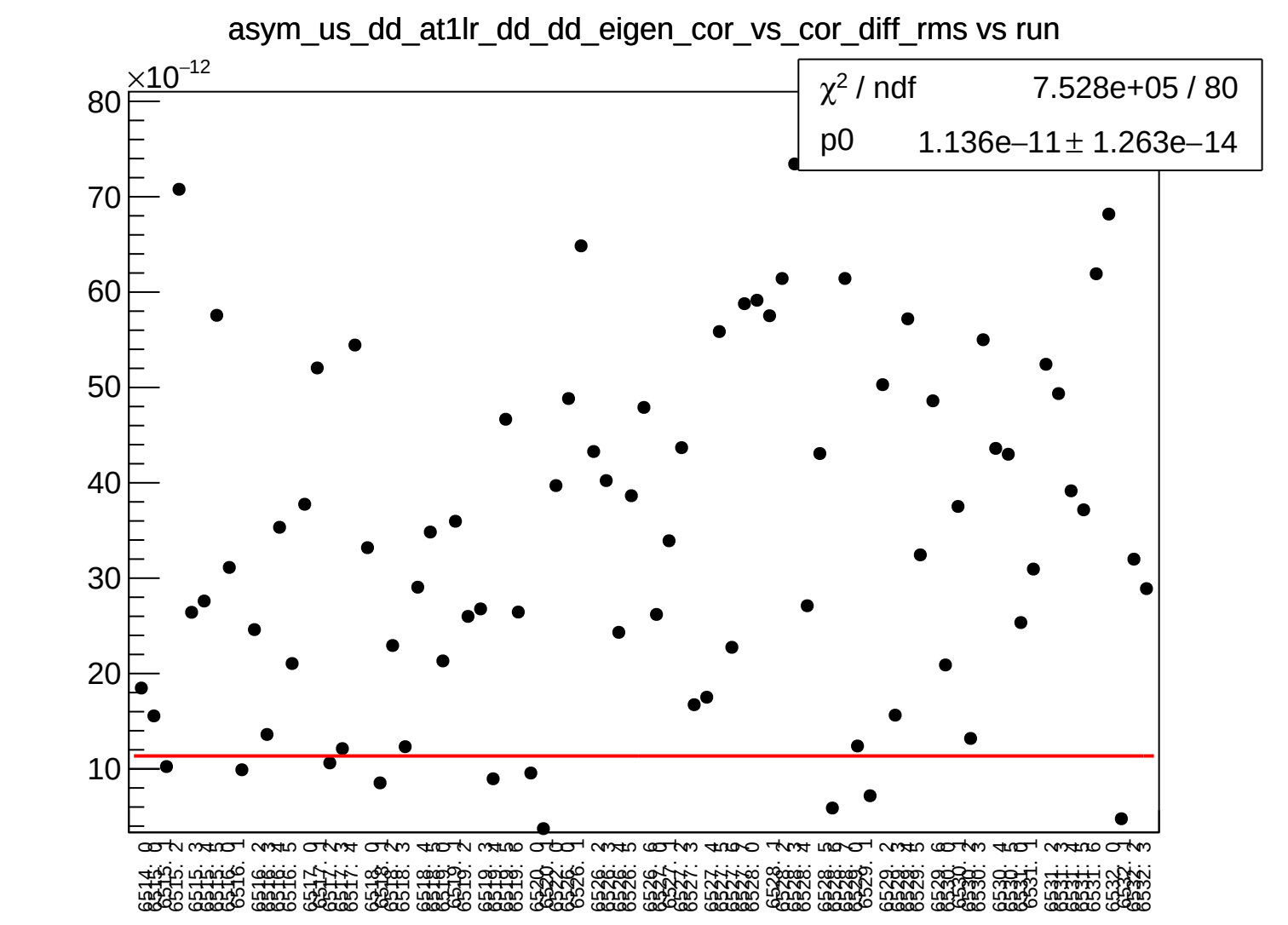

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.5 / 80
p0 0.0174 ± 0.06288
pull
Entries 81
Mean −446.4
Std Dev 0

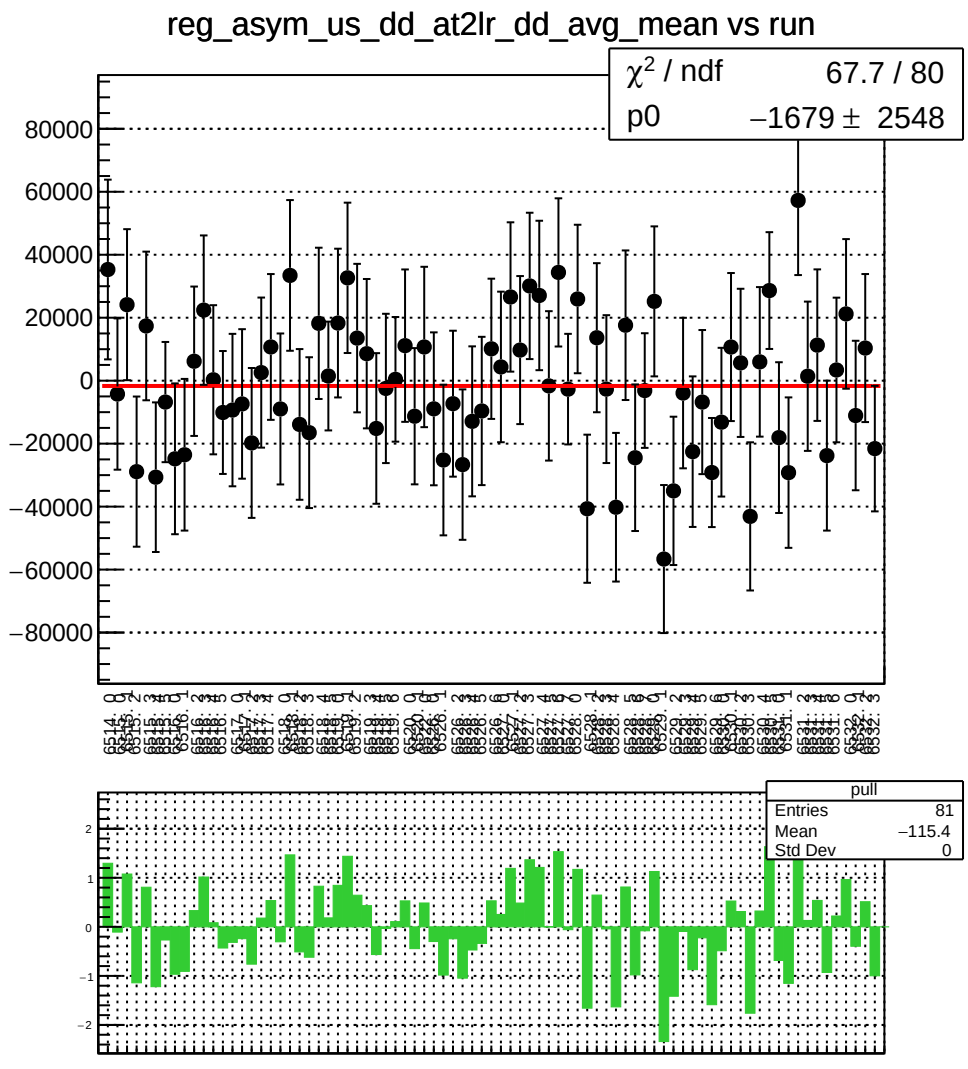

pull1D
Entries 81
Mean 0.01266
Std Dev 1.178

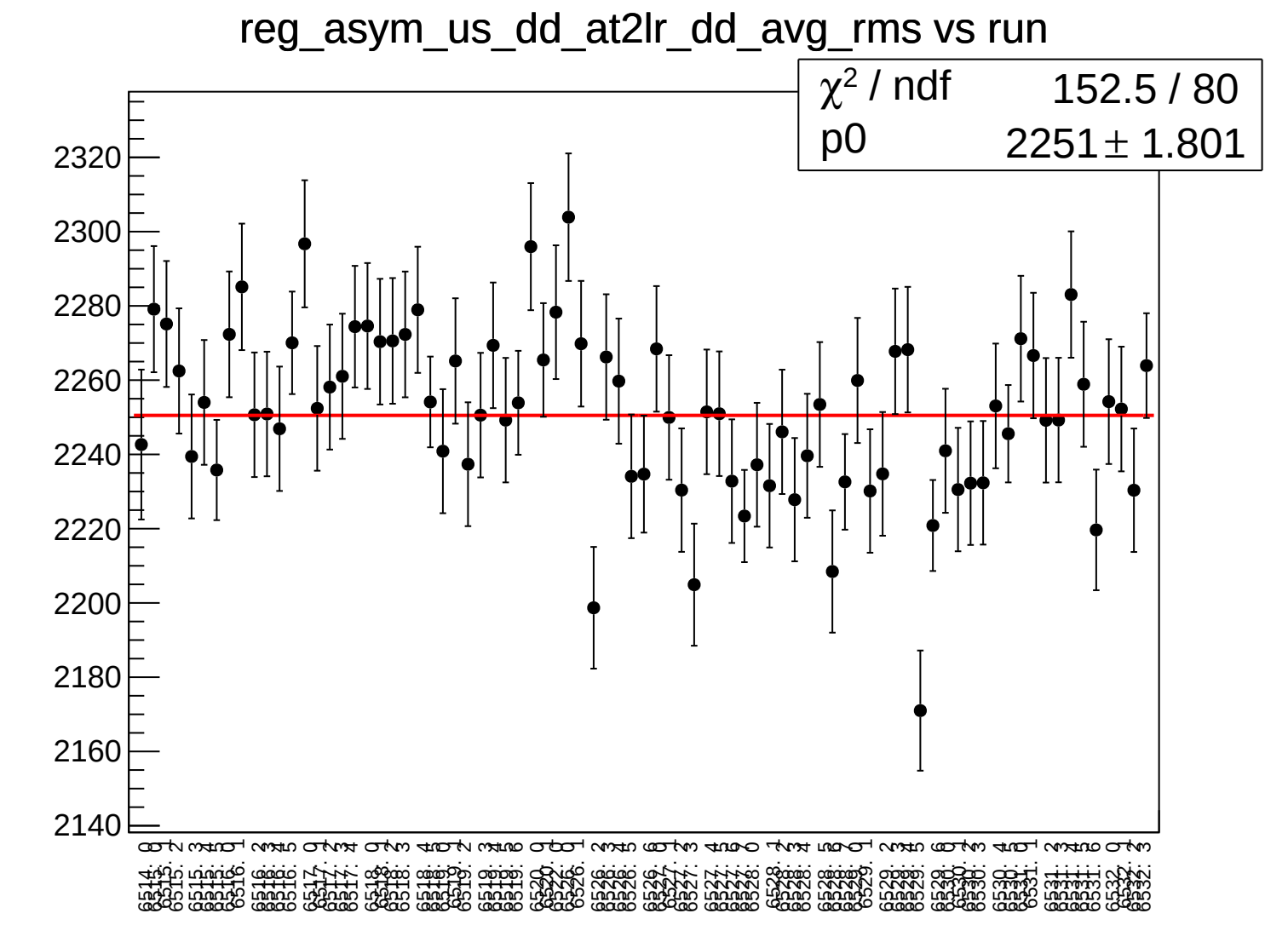

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.038e+05 / 80
p0 51.8 ± 0.04446
140
120
100
80
60
40
20

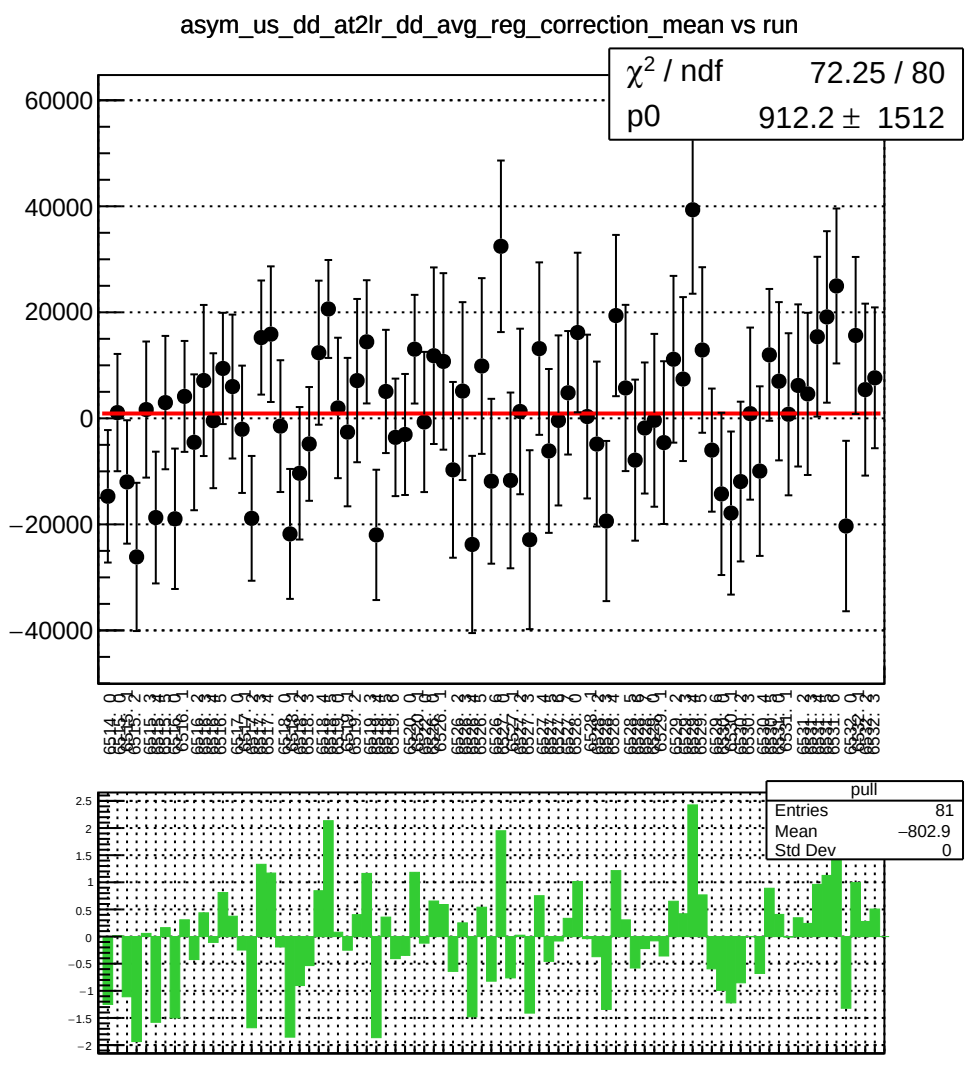

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.02 / 80
p0 −2.516e−14 ± 1.786e−14
pull
Entries 81
Mean 62.97
Std Dev 0

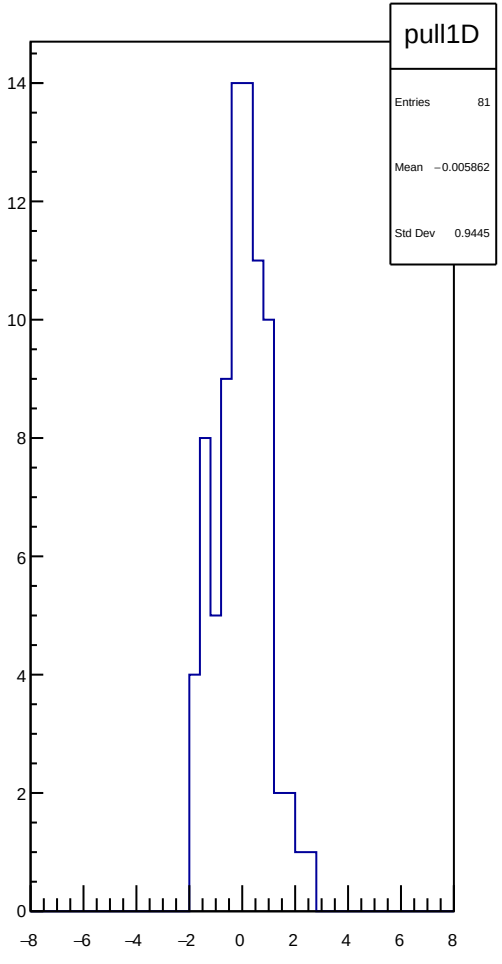

pull1D
Entries 81
Mean 0.05562
Std Dev 0.9861

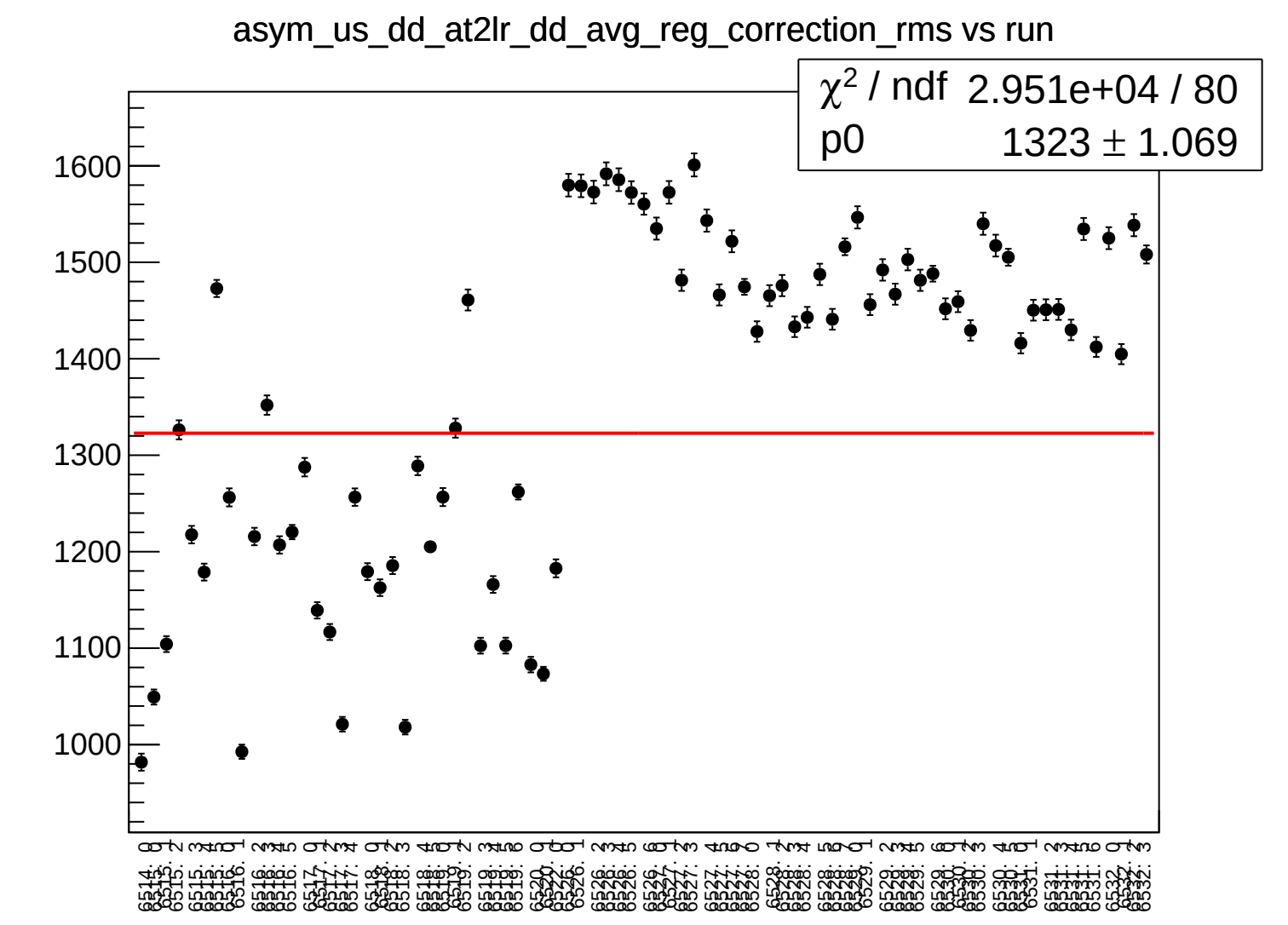

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.528e+05 / 80
p0 1.136e−11 ± 1.263e−14
80
70
60
50
40
30
20
10

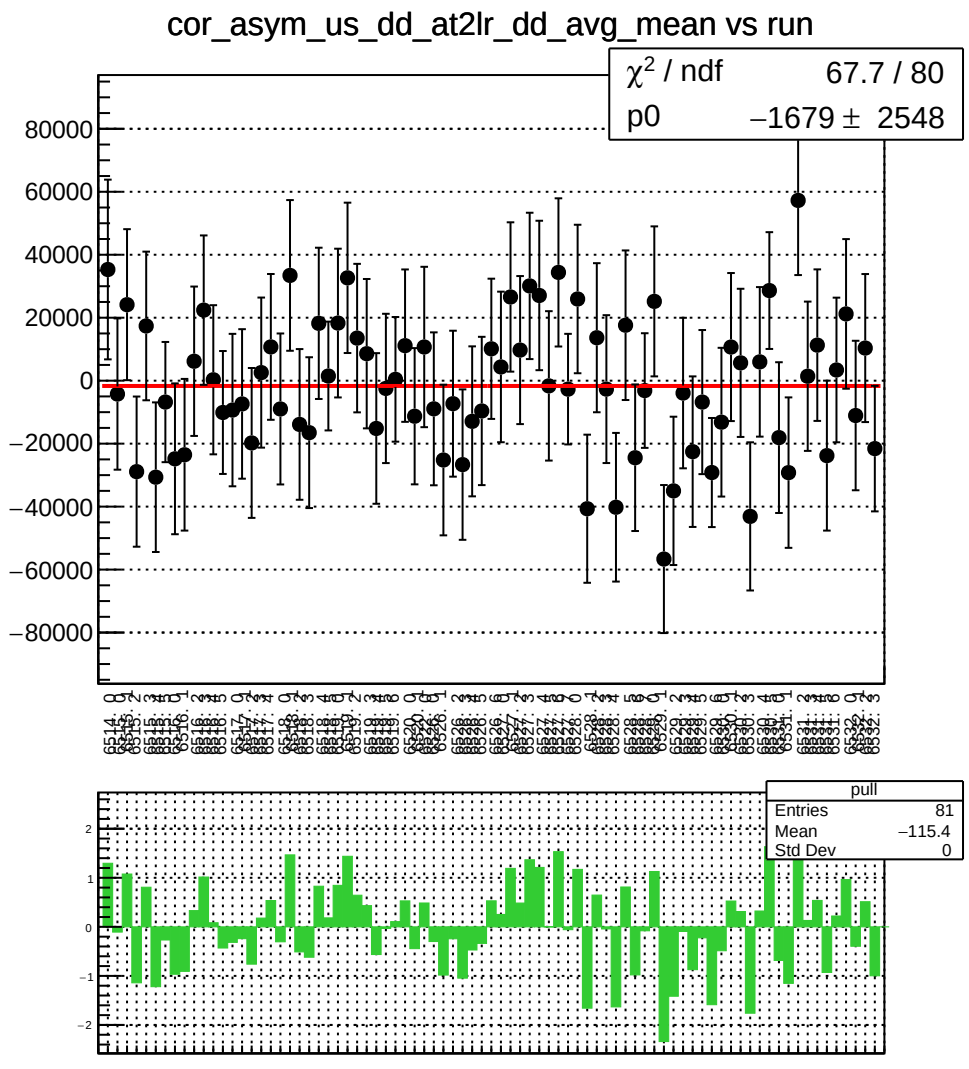

reg_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 67.7 / 80
p0 −1679 ± 2548
pull
Entries 81
Mean −115.4
Std Dev 0
pull1D
Entries 81
Mean 0.008176
Std Dev 0.9142

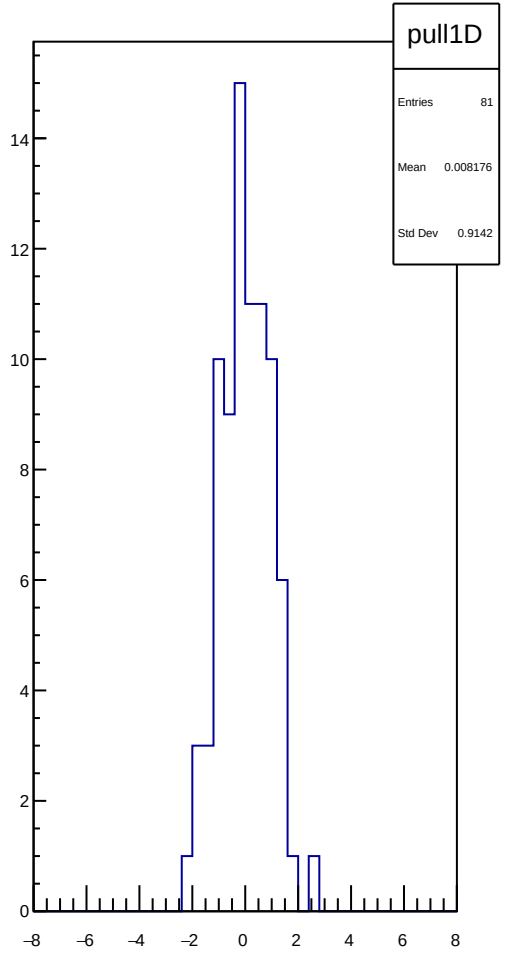

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 152.5 / 80
p0 2251 ± 1.801
2320
2300
2280
2260
2240
2220
2200
2180
2160
2140

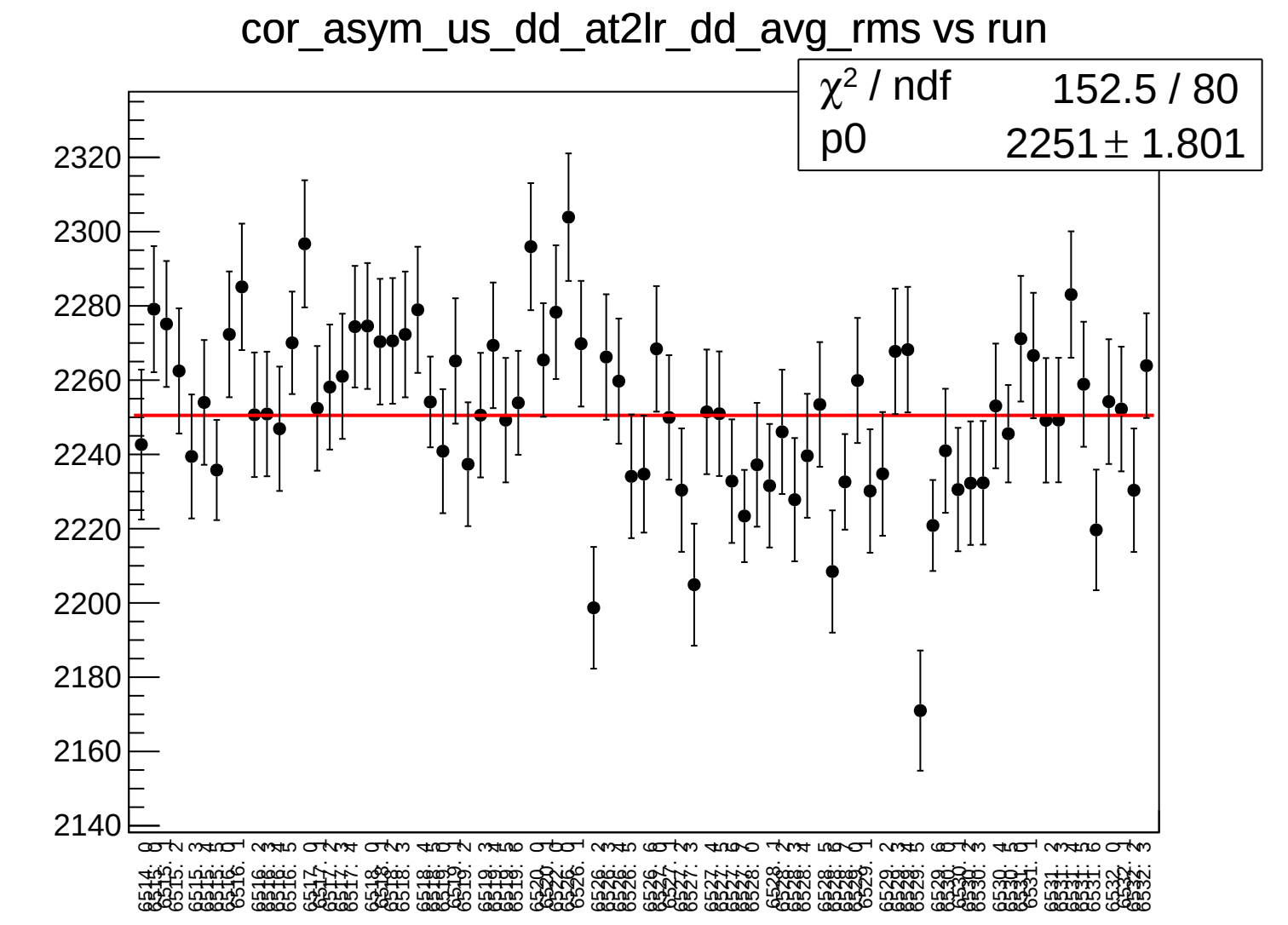

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
χ² / ndf 72.25 / 80
p0 912.2 ± 1512
60000
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −802.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

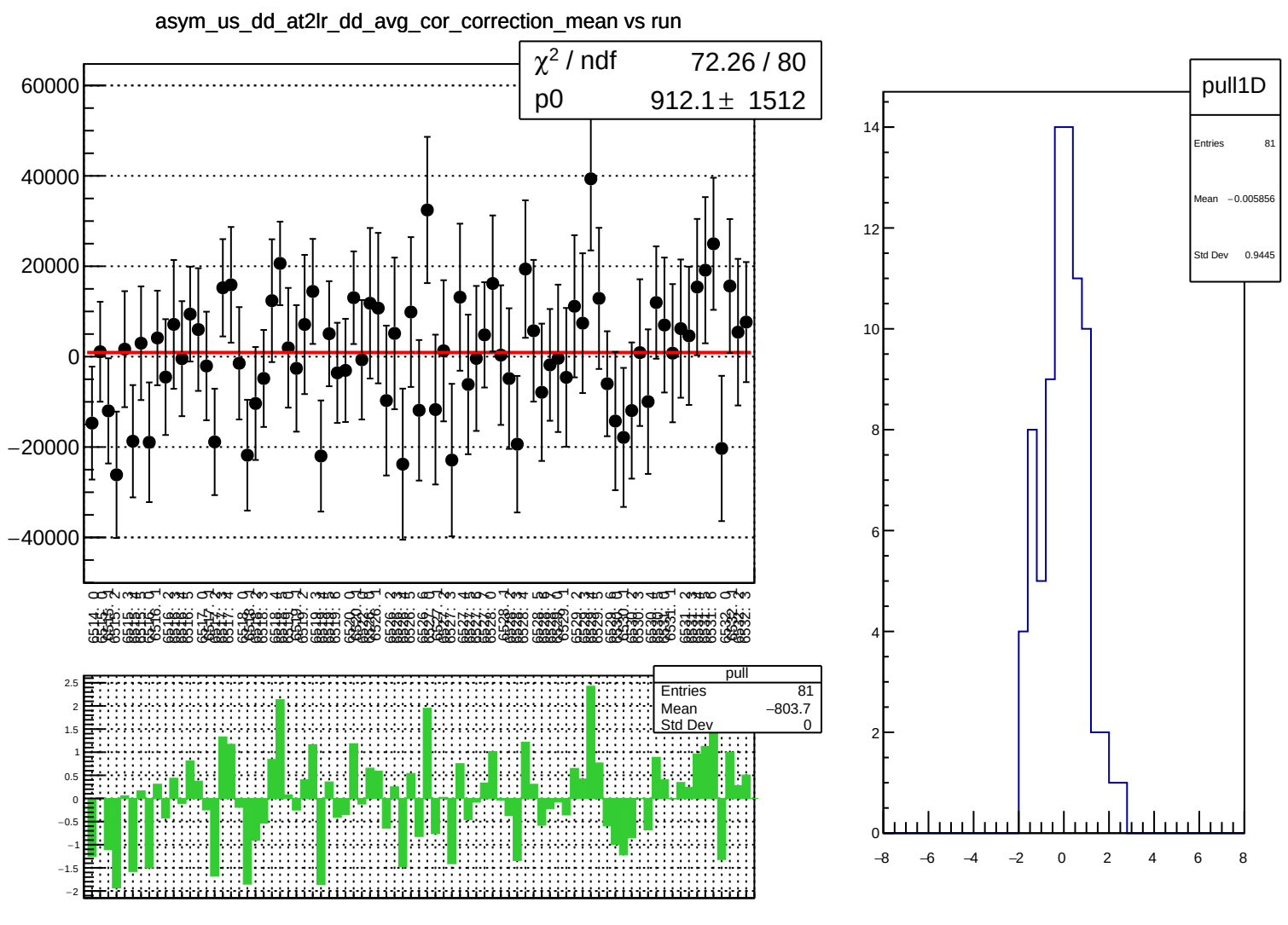

pull1D
Entries 81
Mean −0.005862
Std Dev 0.9445
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

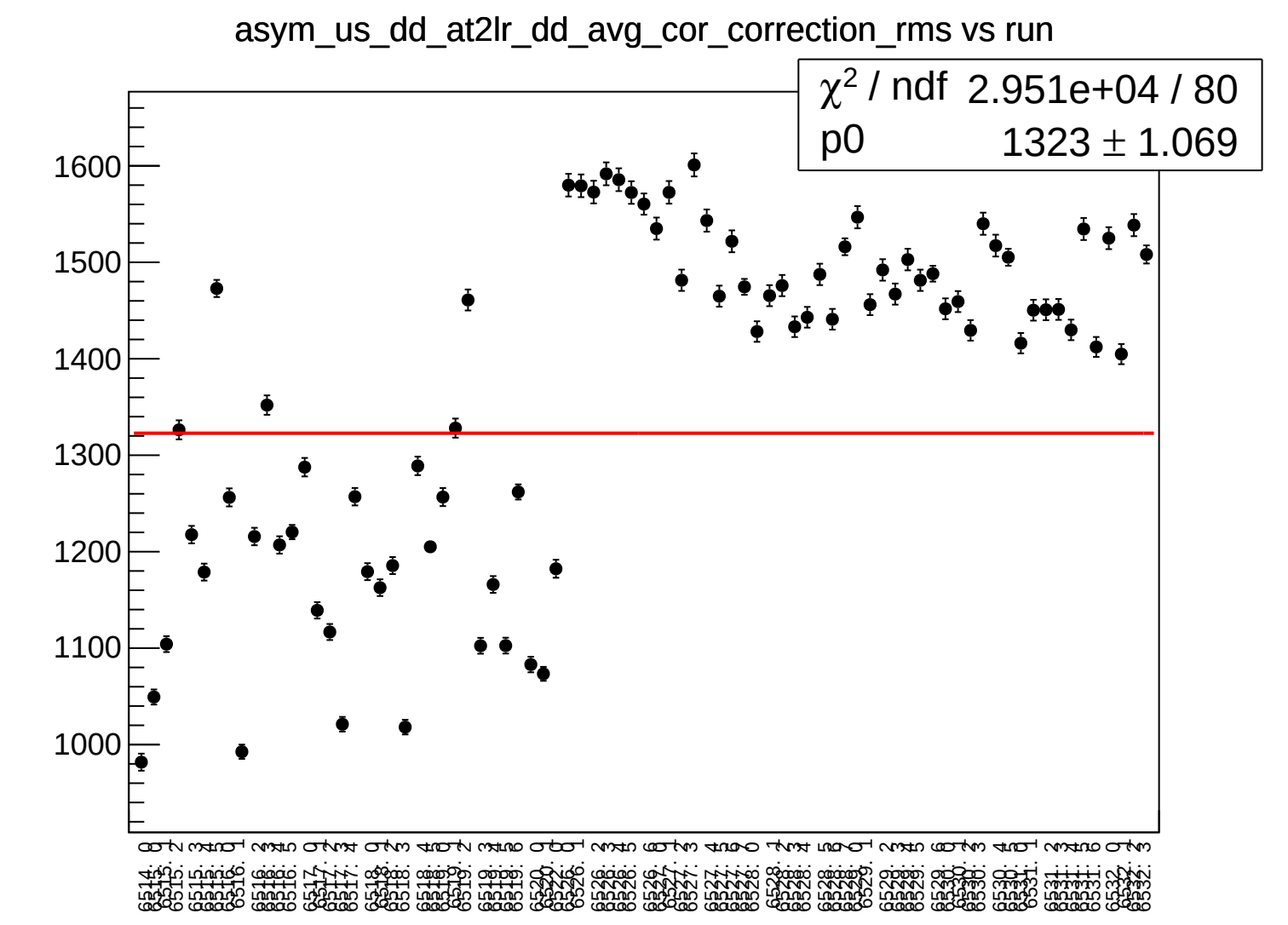

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ² / ndf 2.951e+04 / 80
p0 1323 ± 1.069
1600
1500
1400
1300
1200
1100
1000

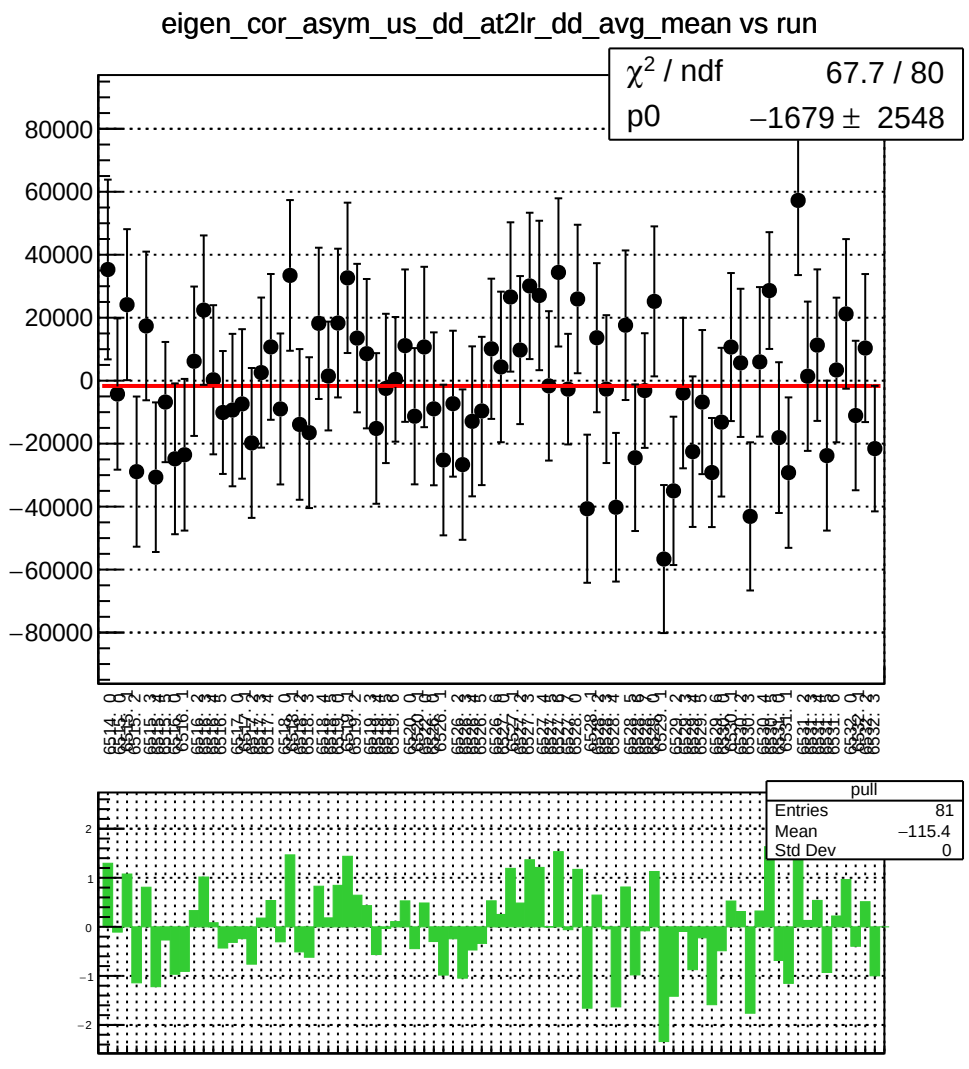

cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 67.7 / 80
p0 −1679 ± 2548
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 81
Mean −115.4
Std Dev 0
2
1
0
−1
−2

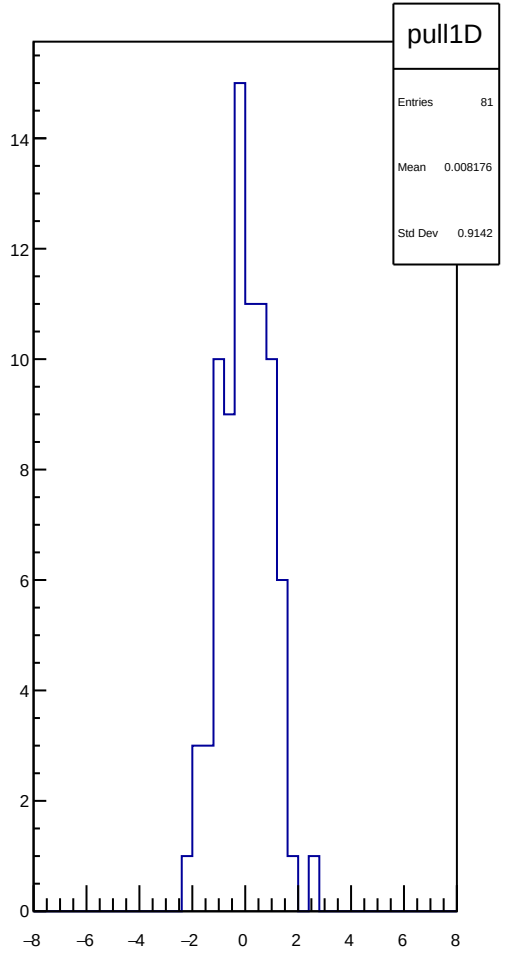

pull1D
Entries 81
Mean 0.008176
Std Dev 0.9142
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

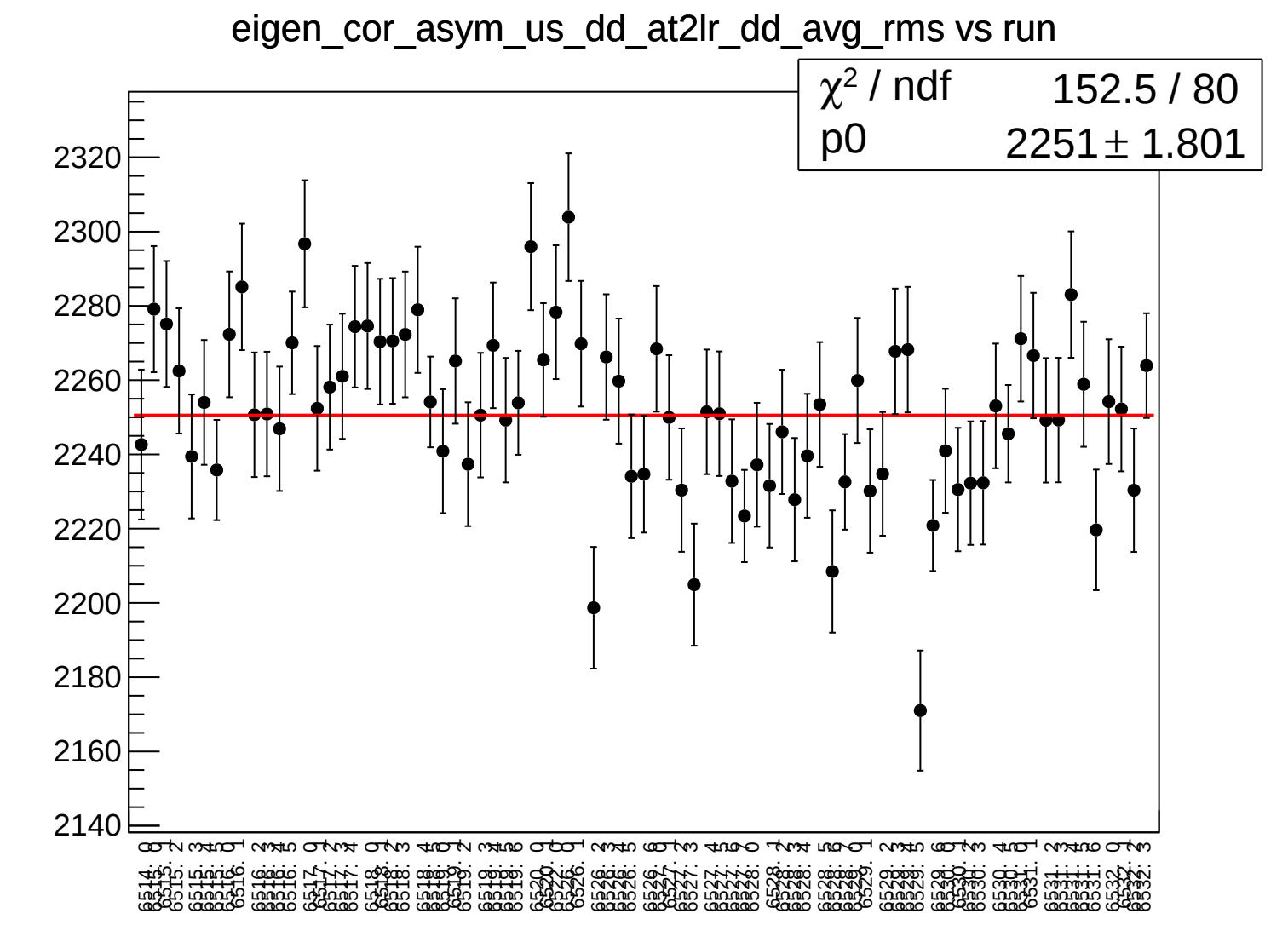

cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 152.5 / 80
p0 2251 ± 1.801
2320
2300
2280
2260
2240
2220
2200
2180
2160
2140

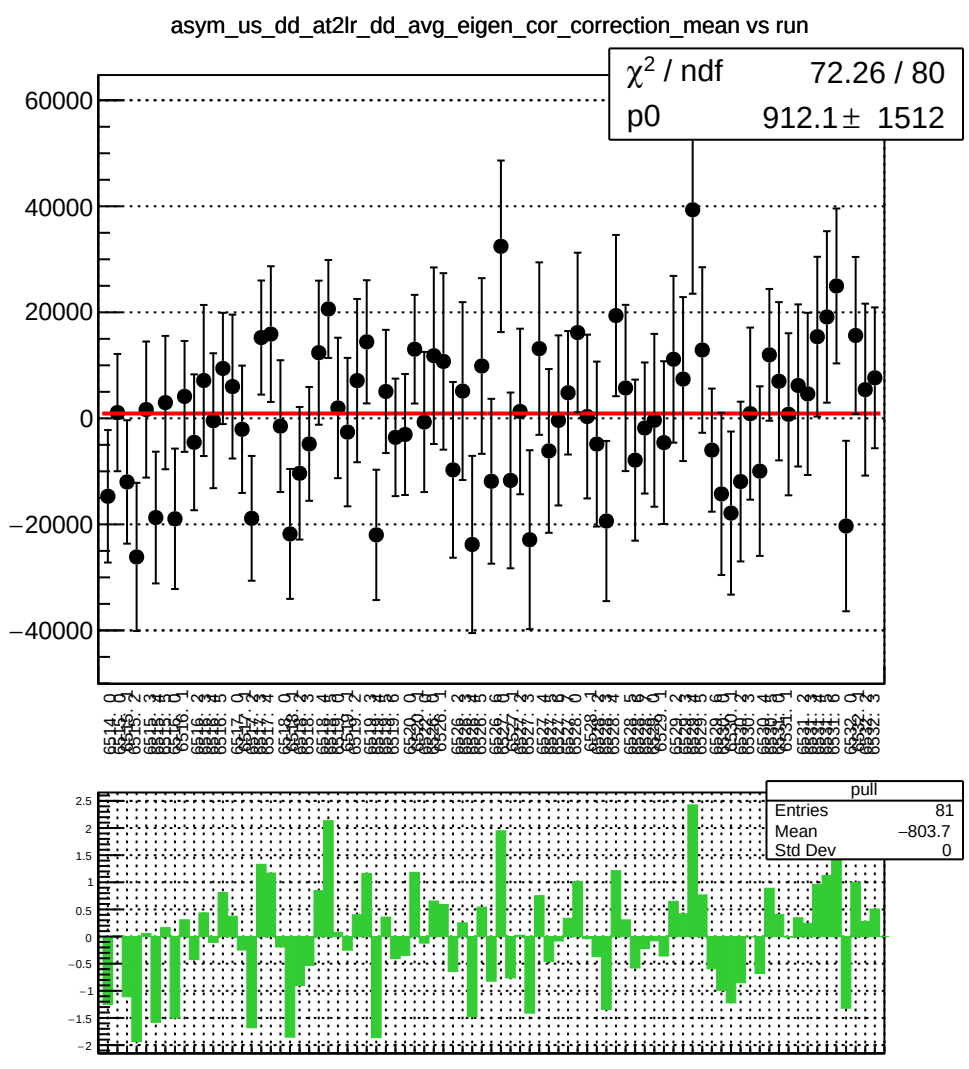

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
χ² / ndf 72.26 / 80
p0 912.1 ± 1512
60000
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −803.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 81
Mean −0.005856
Std Dev 0.9445
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

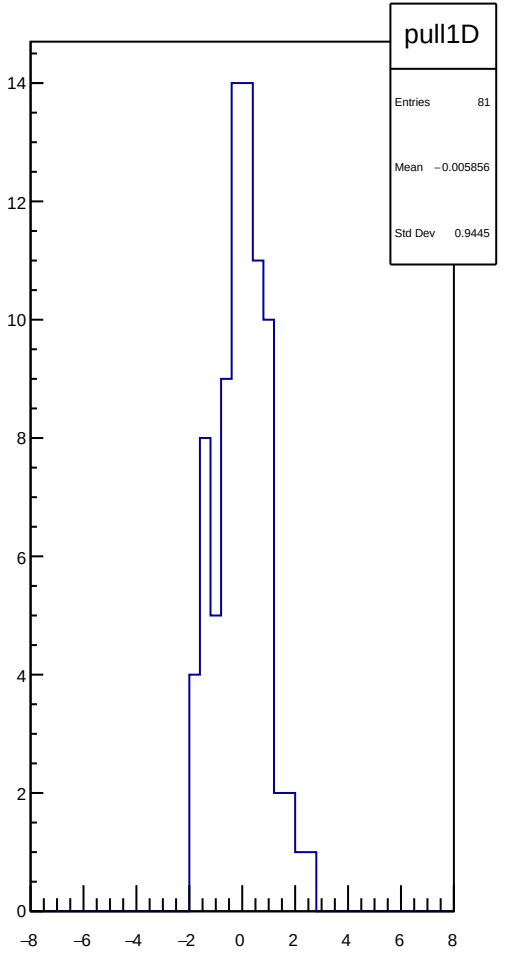

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ² / ndf 2.951e+04 / 80
p0 1323 ± 1.069
1600
1500
1400
1300
1200
1100
1000

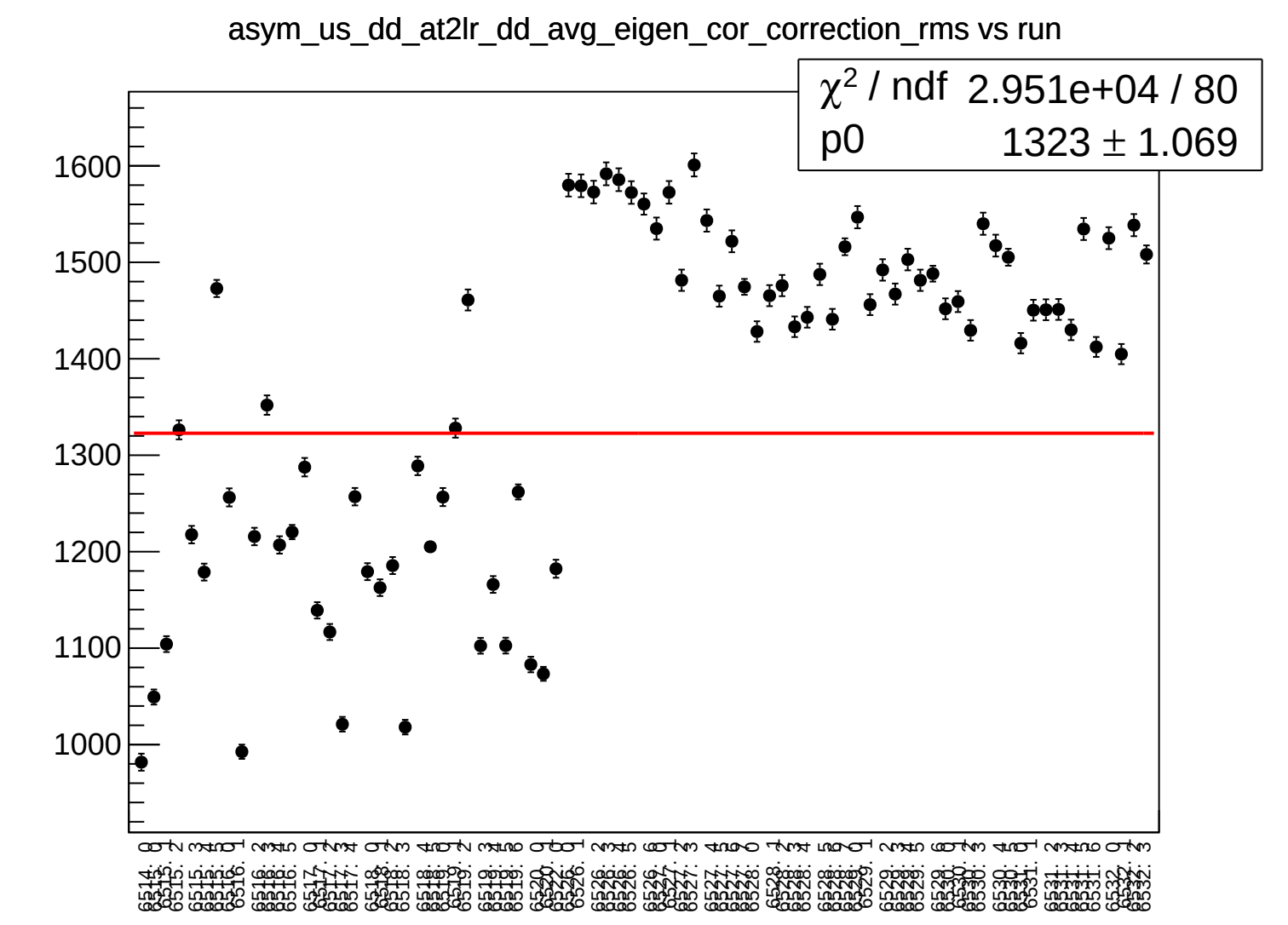

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 67.7 / 80
p0 −1679 ± 2548
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 81
Mean −115.4
Std Dev 0
2
1
0
−1
−2

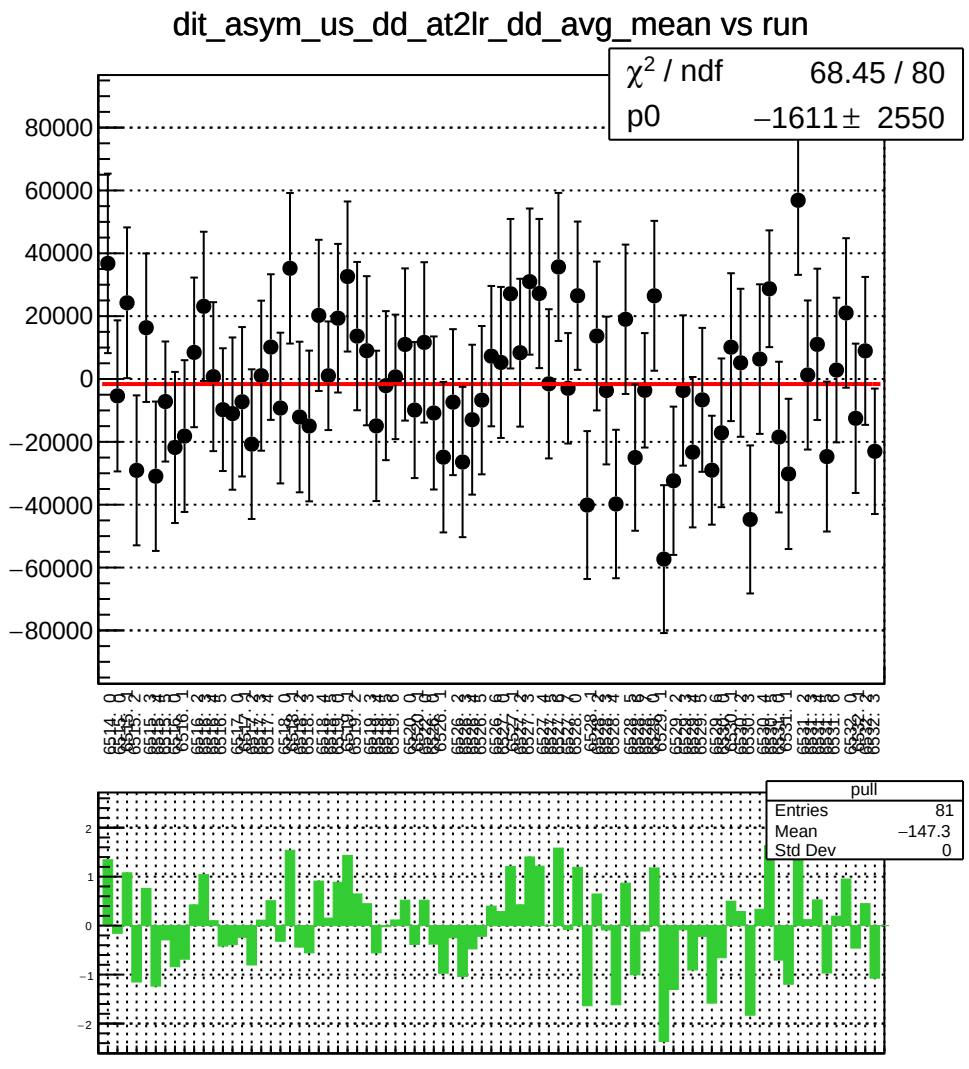

pull1D
Entries 81
Mean 0.008176
Std Dev 0.9142
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

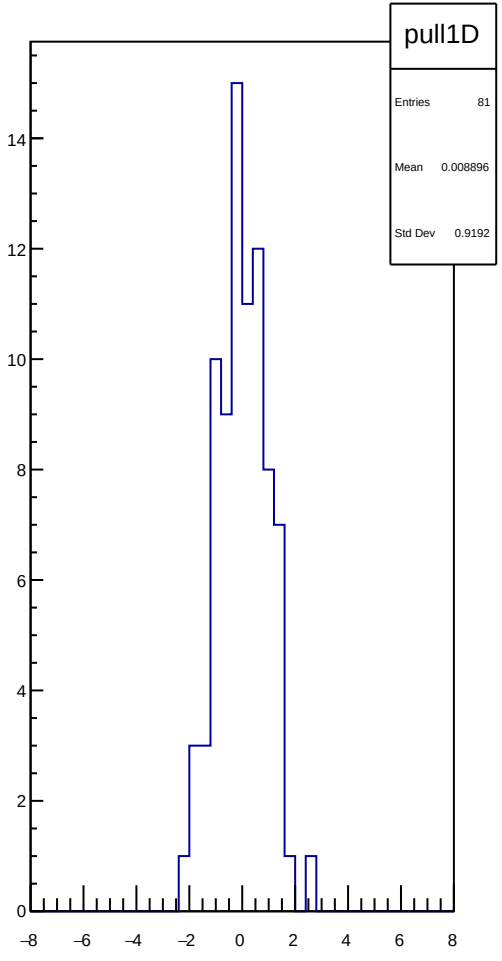

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 152.5 / 80
p0 2251 ± 1.801
2320
2300
2280
2260
2240
2220
2200
2180
2160
2140

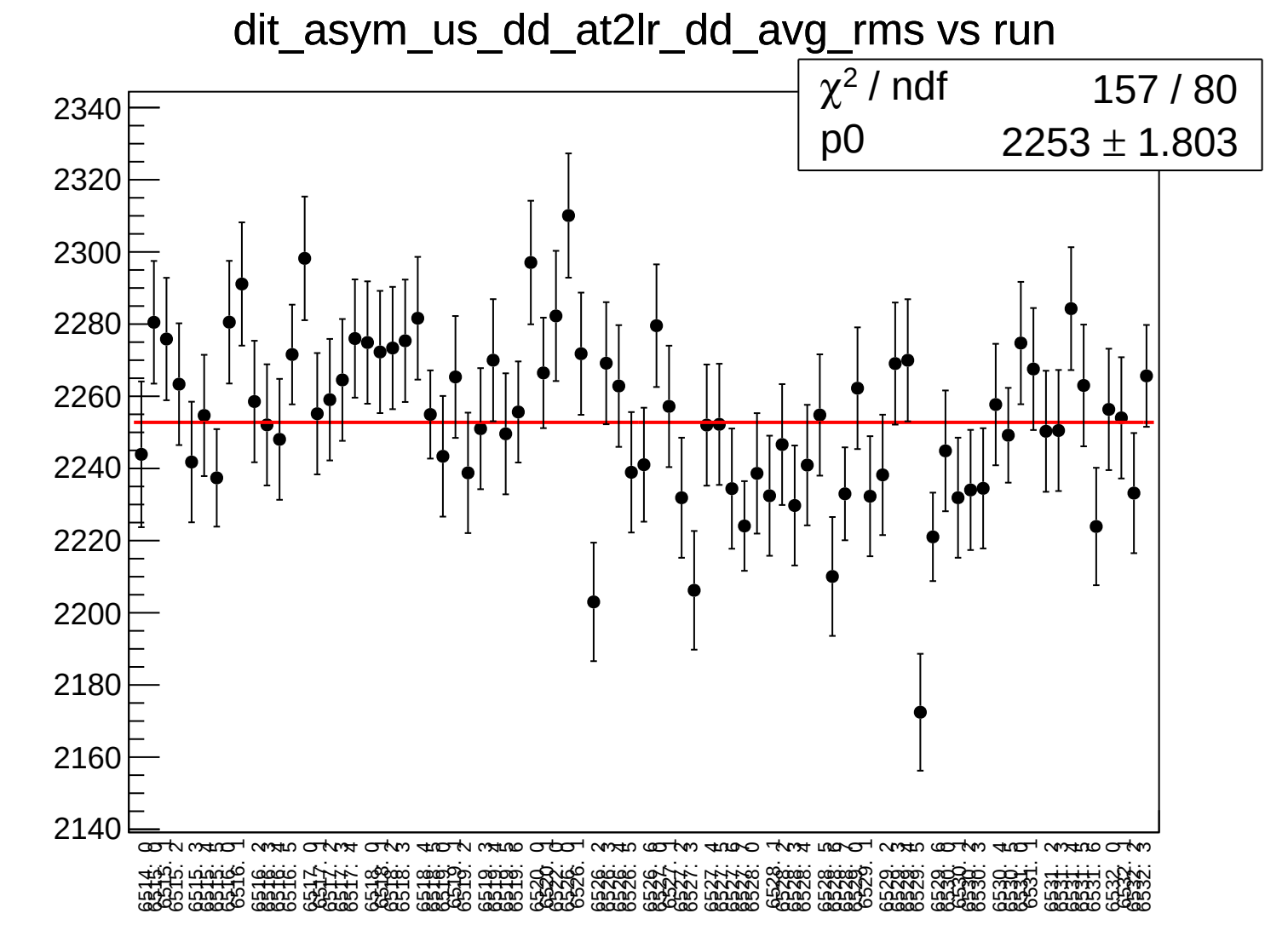

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 72.26 / 80
p0 912.1 ± 1512
60000
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −803.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

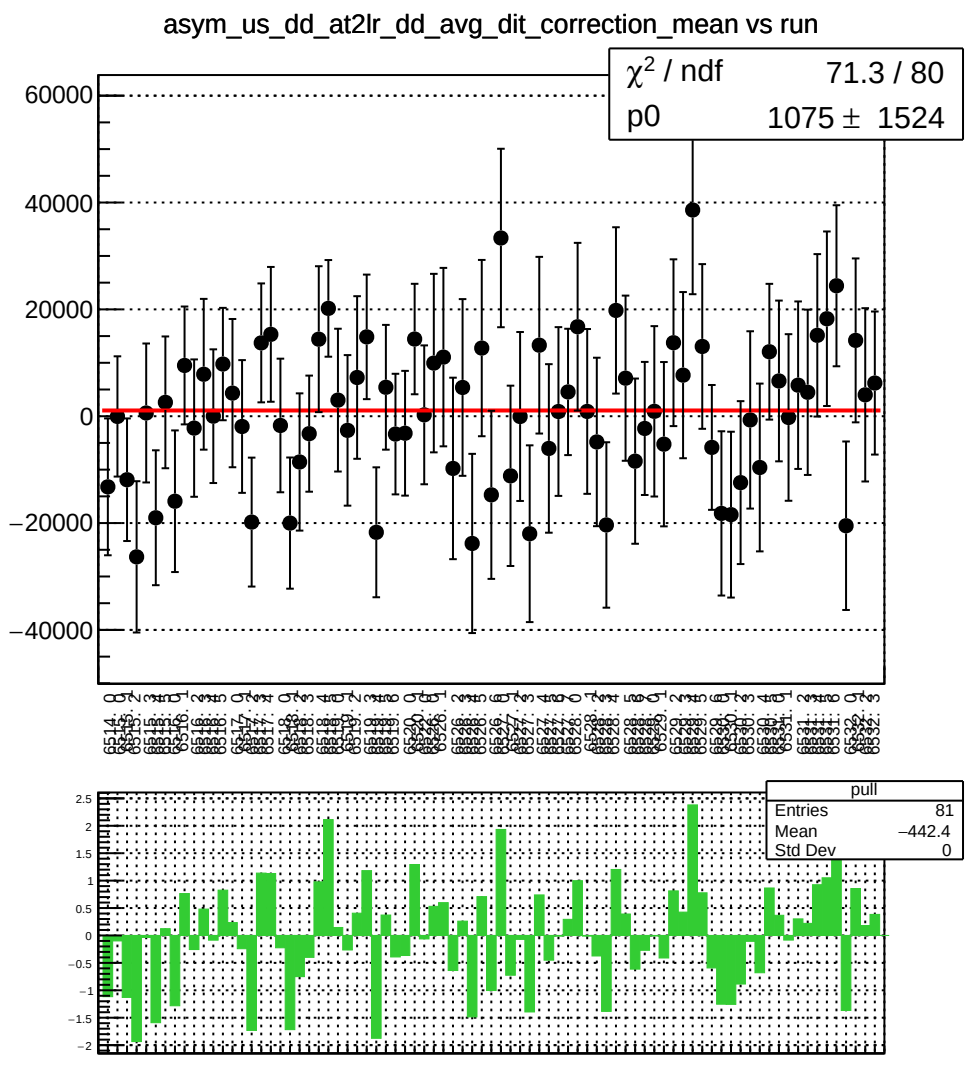

pull1D
Entries 81
Mean −0.005856
Std Dev 0.9445
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

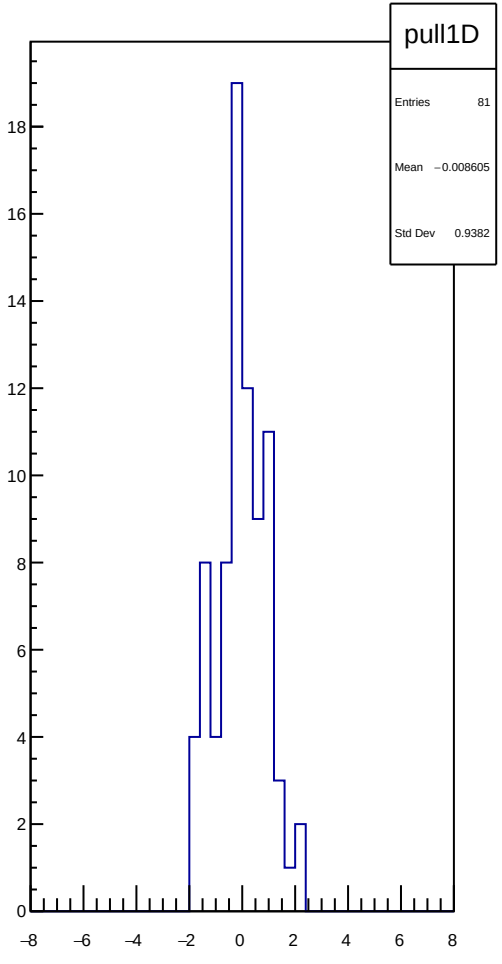

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.951e+04 / 80
p0 1323 ± 1.069
1600
1500
1400
1300
1200
1100
1000

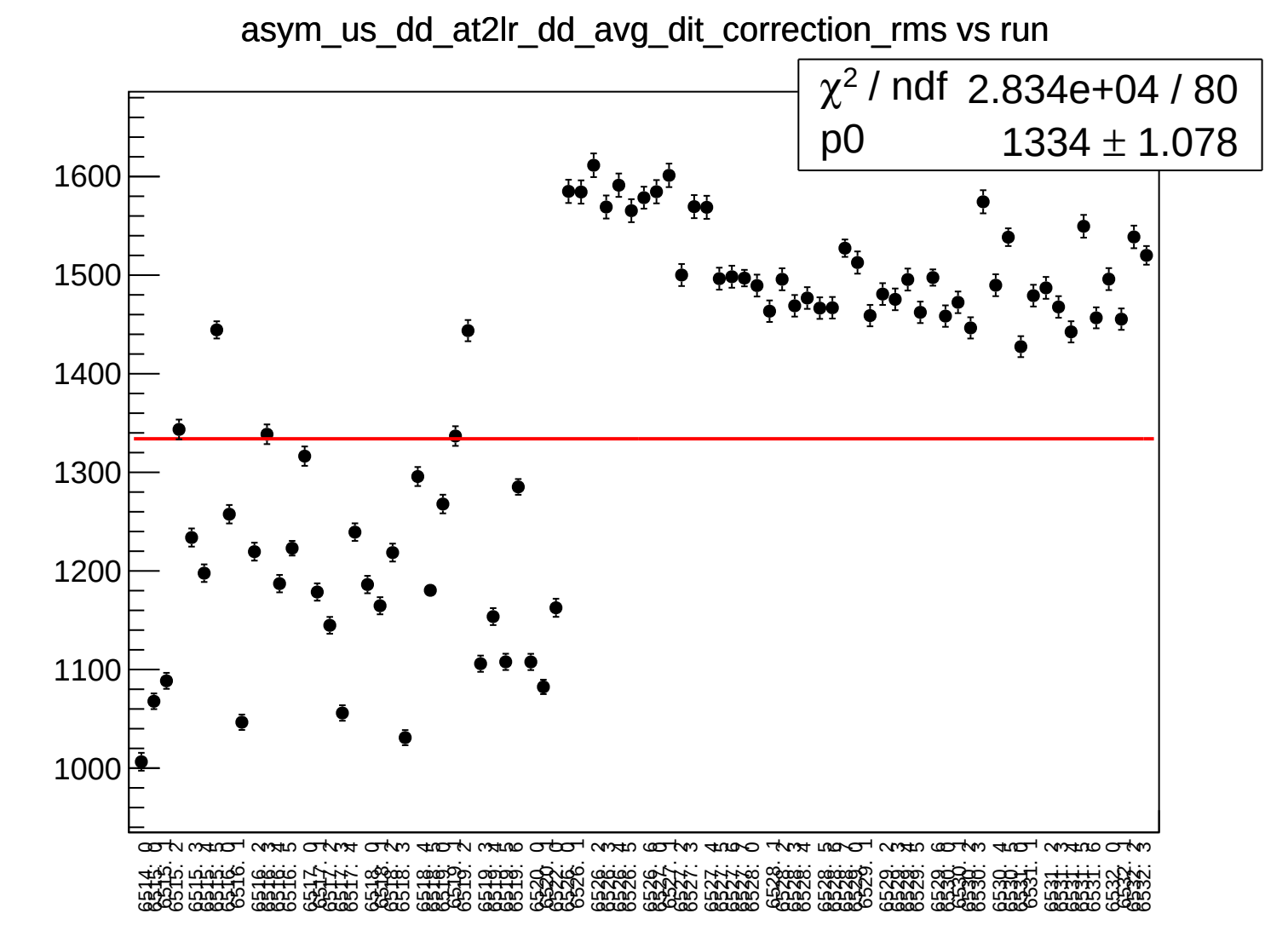

dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 68.45 / 80
p0 −1611 ± 2550
pull
Entries 81
Mean −147.3
Std Dev 0

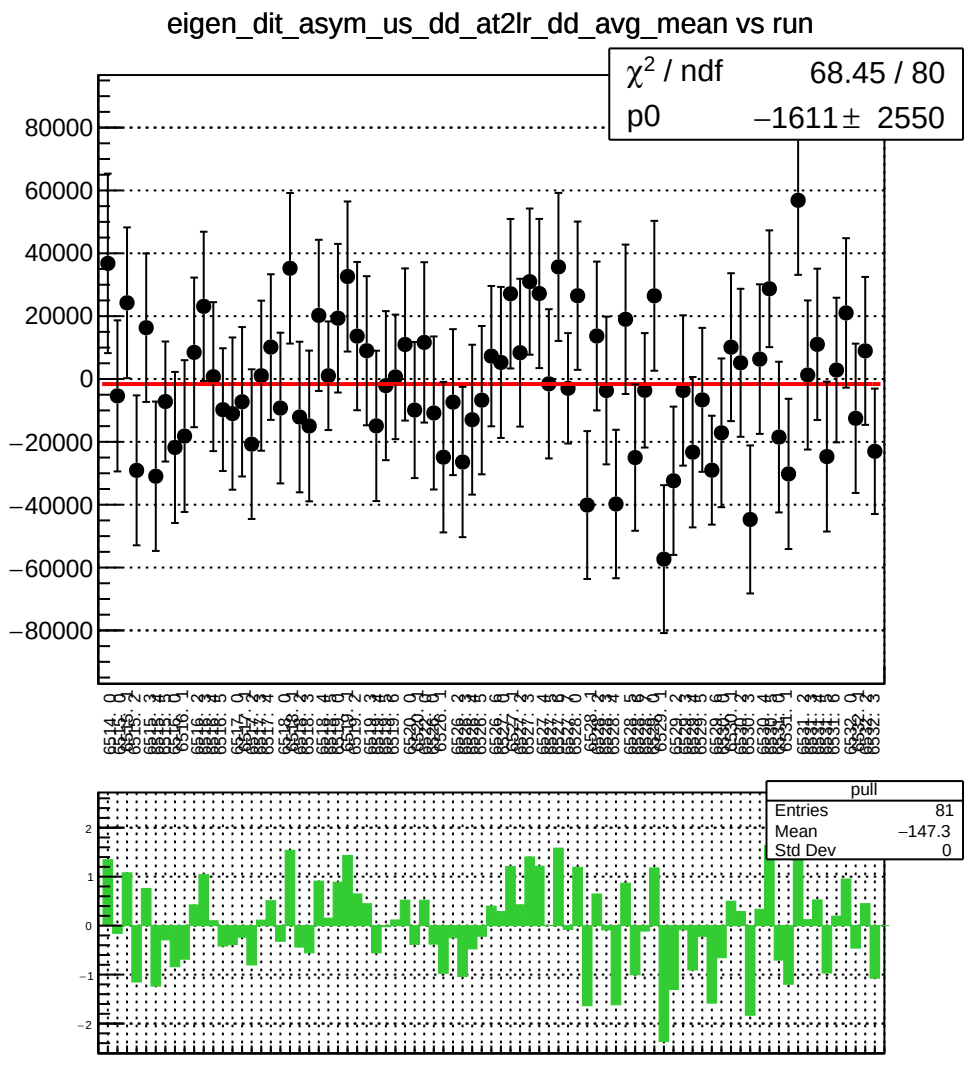

pull1D
Entries 81
Mean 0.008896
Std Dev 0.9192

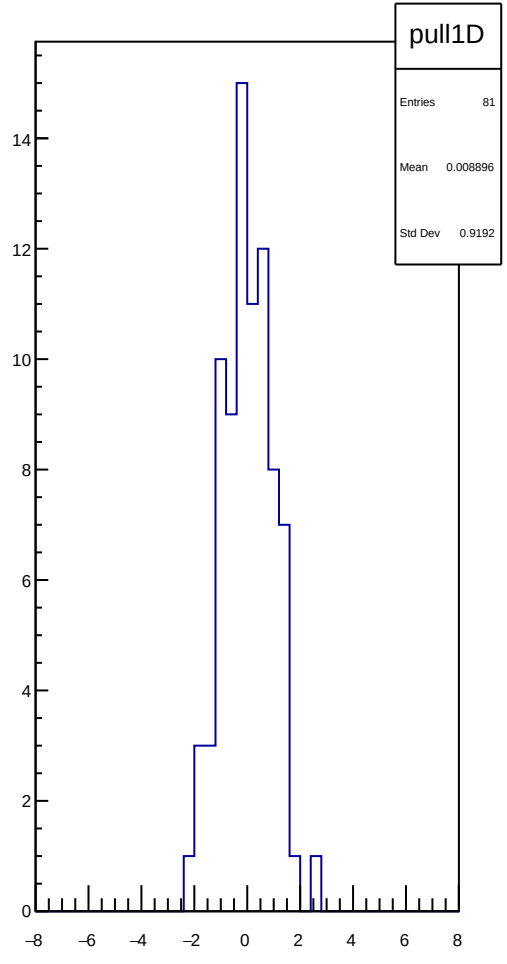

dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 157 / 80
p0 2253 ± 1.803
2340
2320
2300
2280
2260
2240
2220
2200
2180
2160
2140

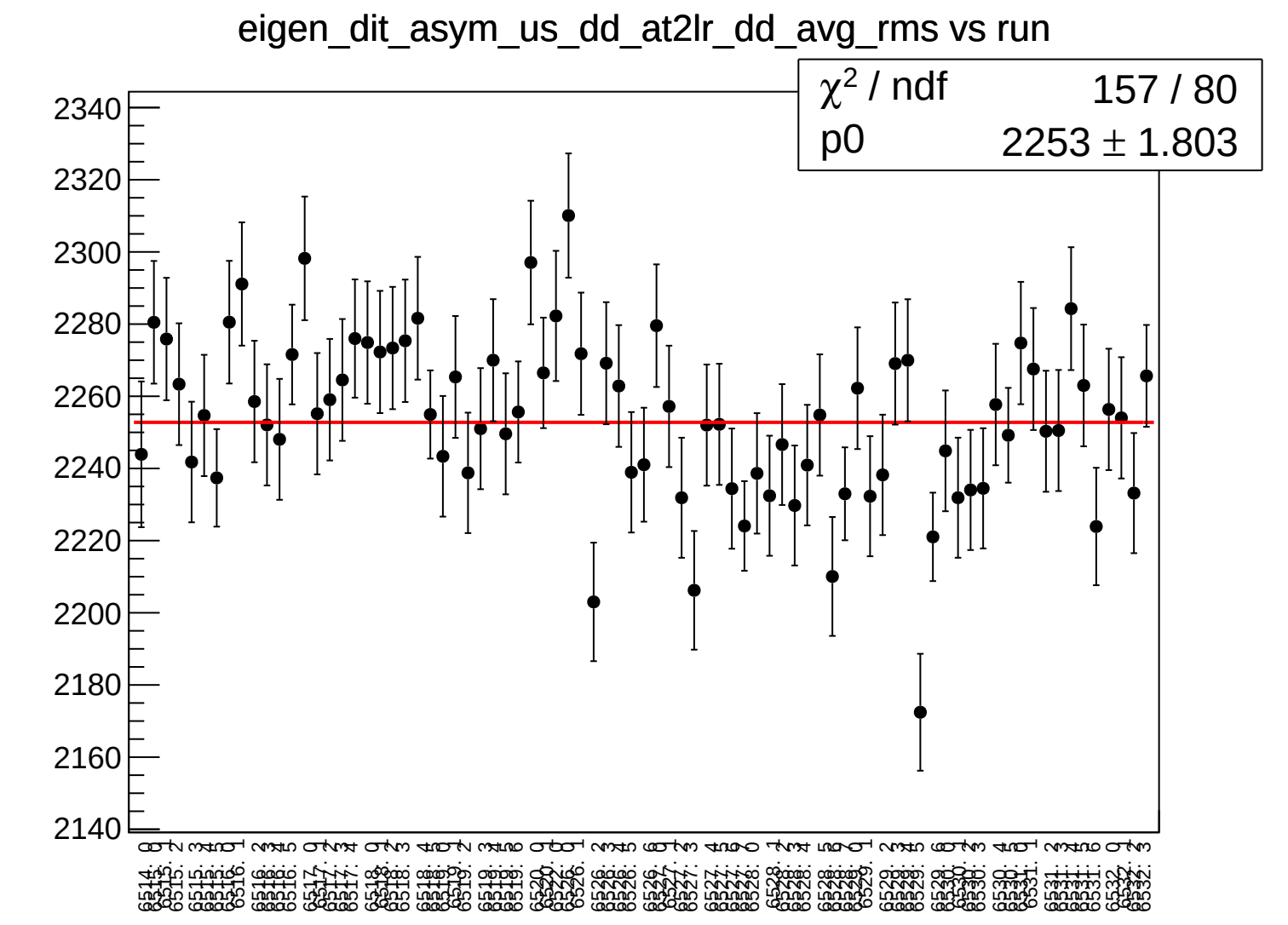

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
χ² / ndf 71.3 / 80
p0 1075 ± 1524
pull
Entries 81
Mean −442.4
Std Dev 0

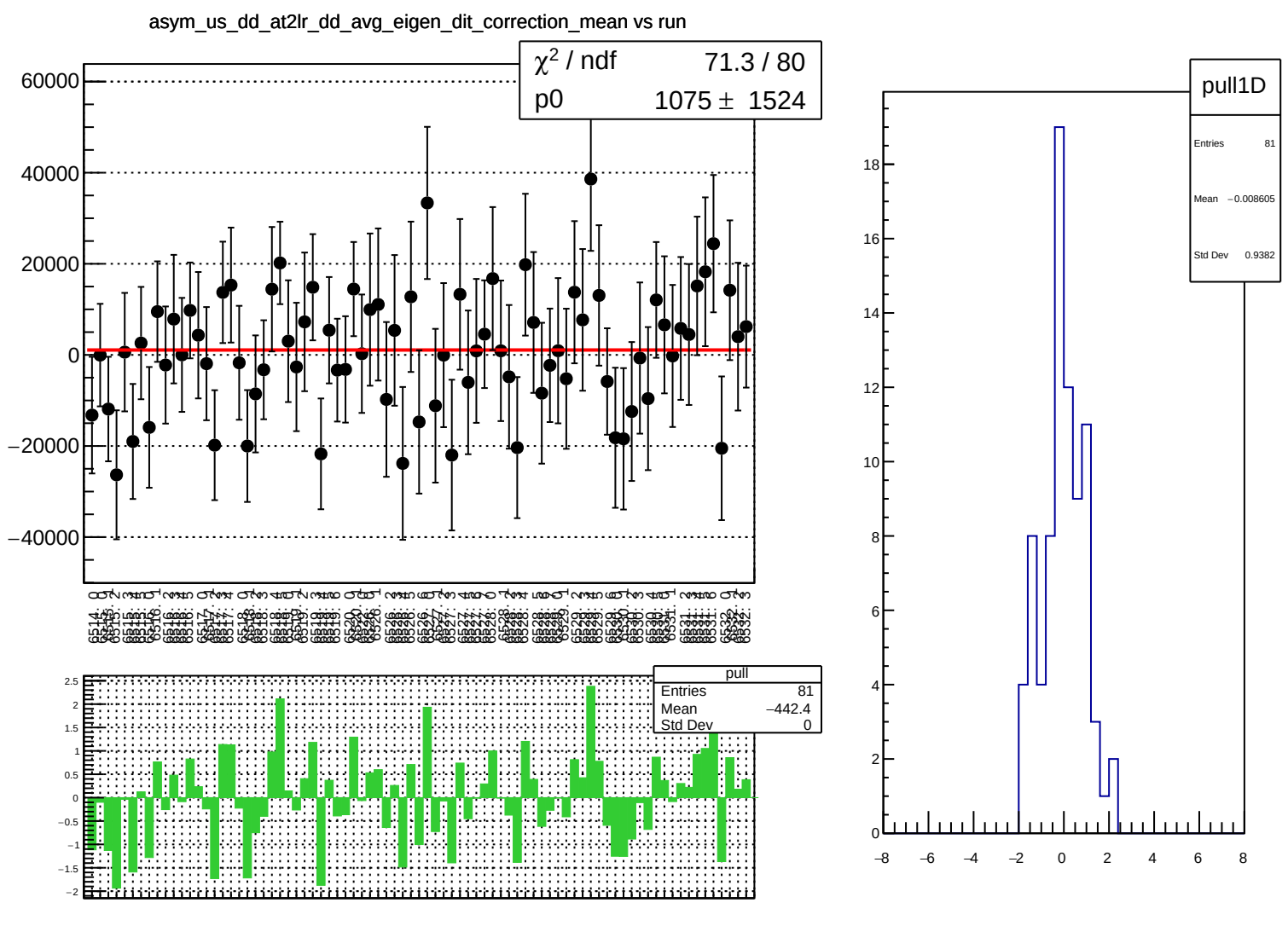

pull1D
Entries 81
Mean −0.008605
Std Dev 0.9382

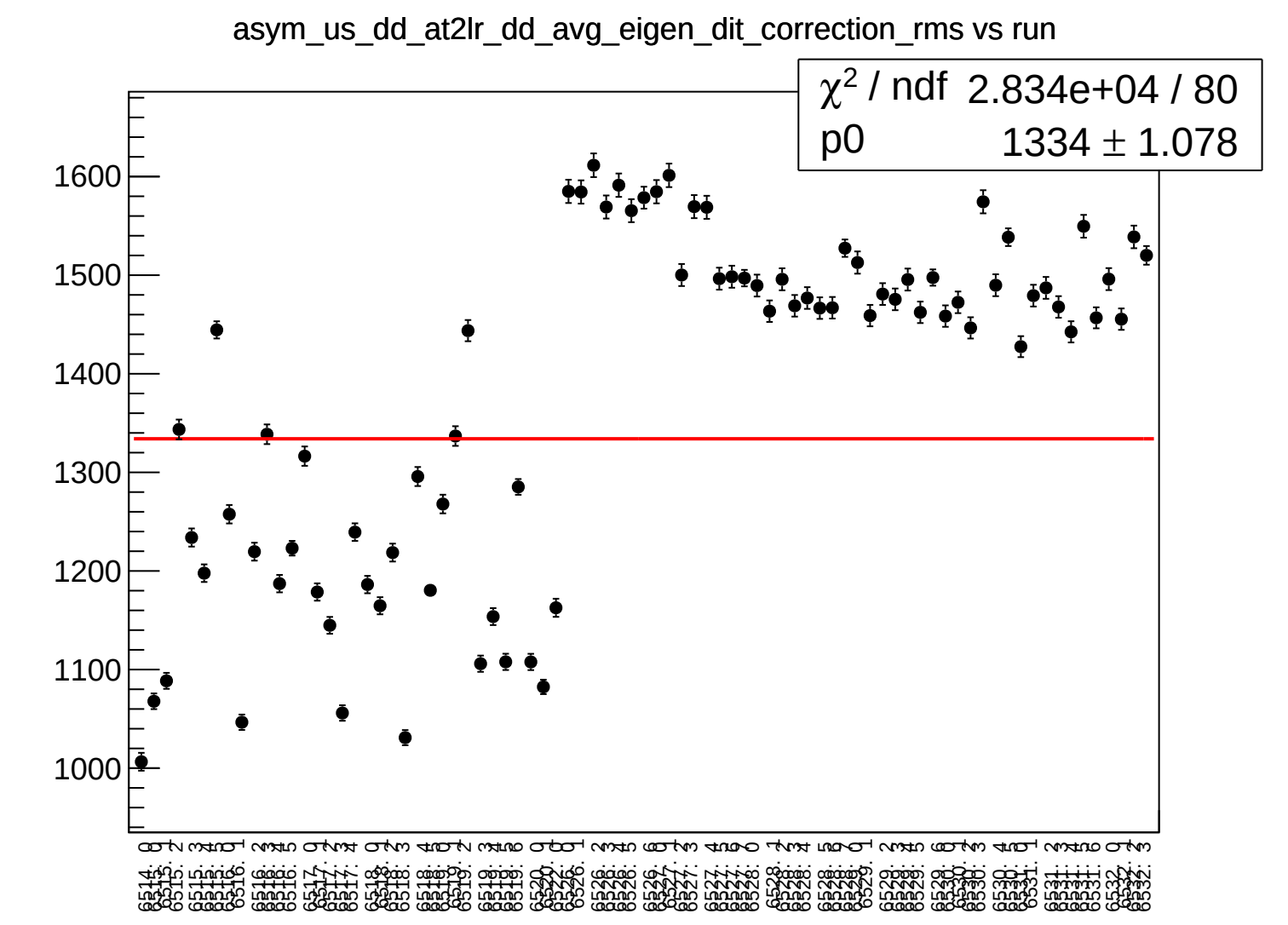

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 2.834e+04 / 80
p0 1334 ± 1.078
1600
1500
1400
1300
1200
1100
1000

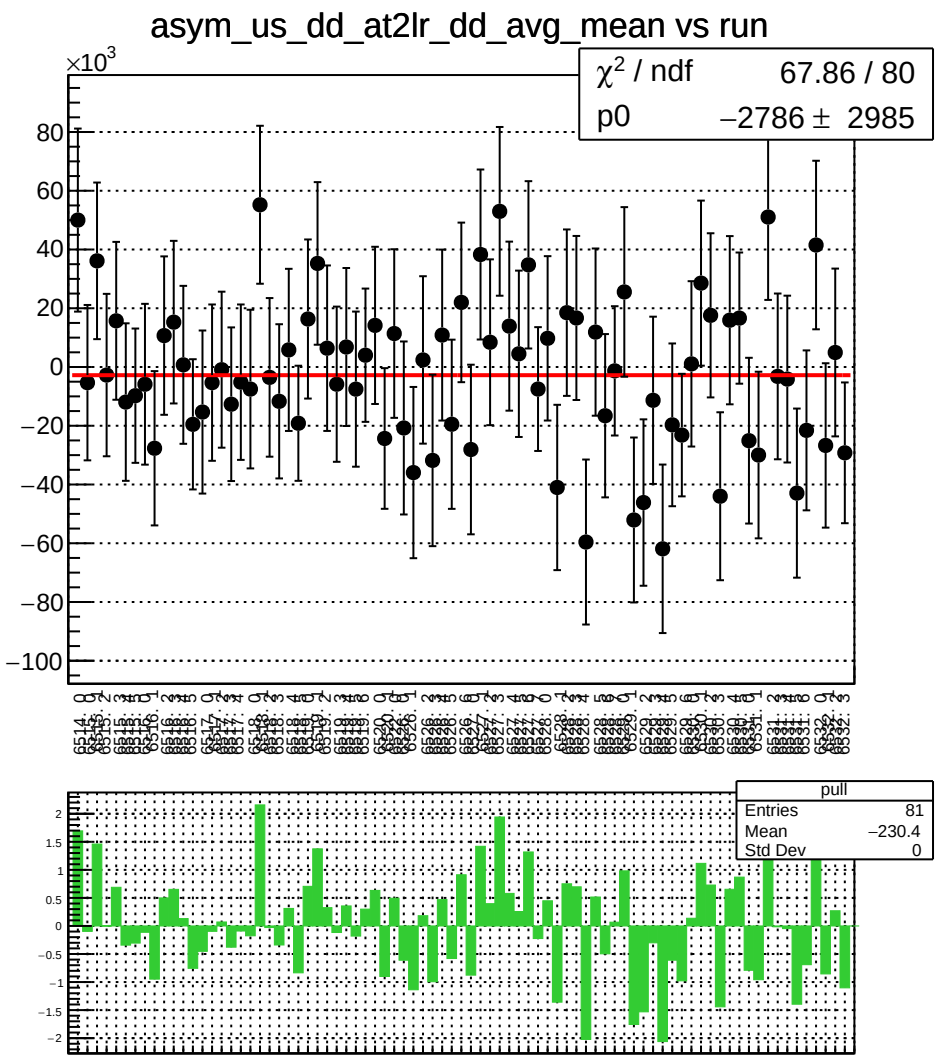

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 68.45 / 80
p0 −1611 ± 2550
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 81
Mean −147.3
Std Dev 0
2
1
0
−1
−2

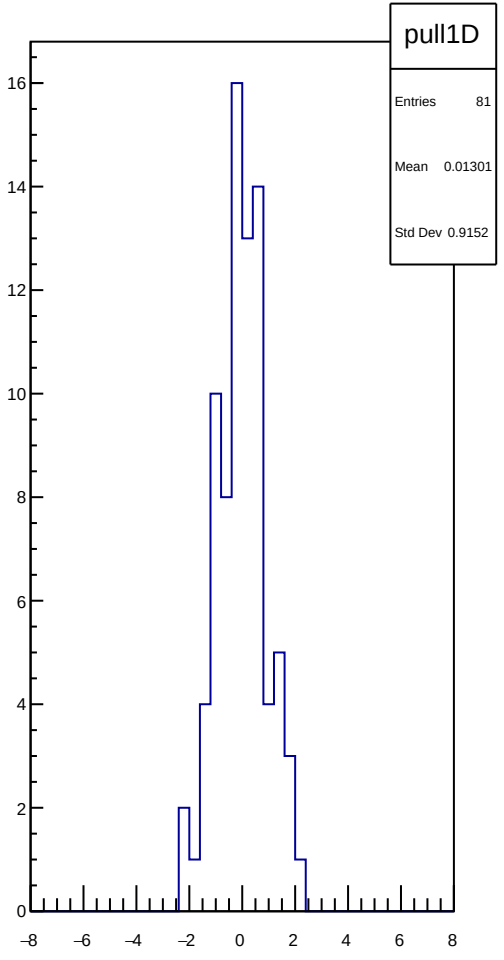

pull1D
Entries 81
Mean 0.008896
Std Dev 0.9192
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

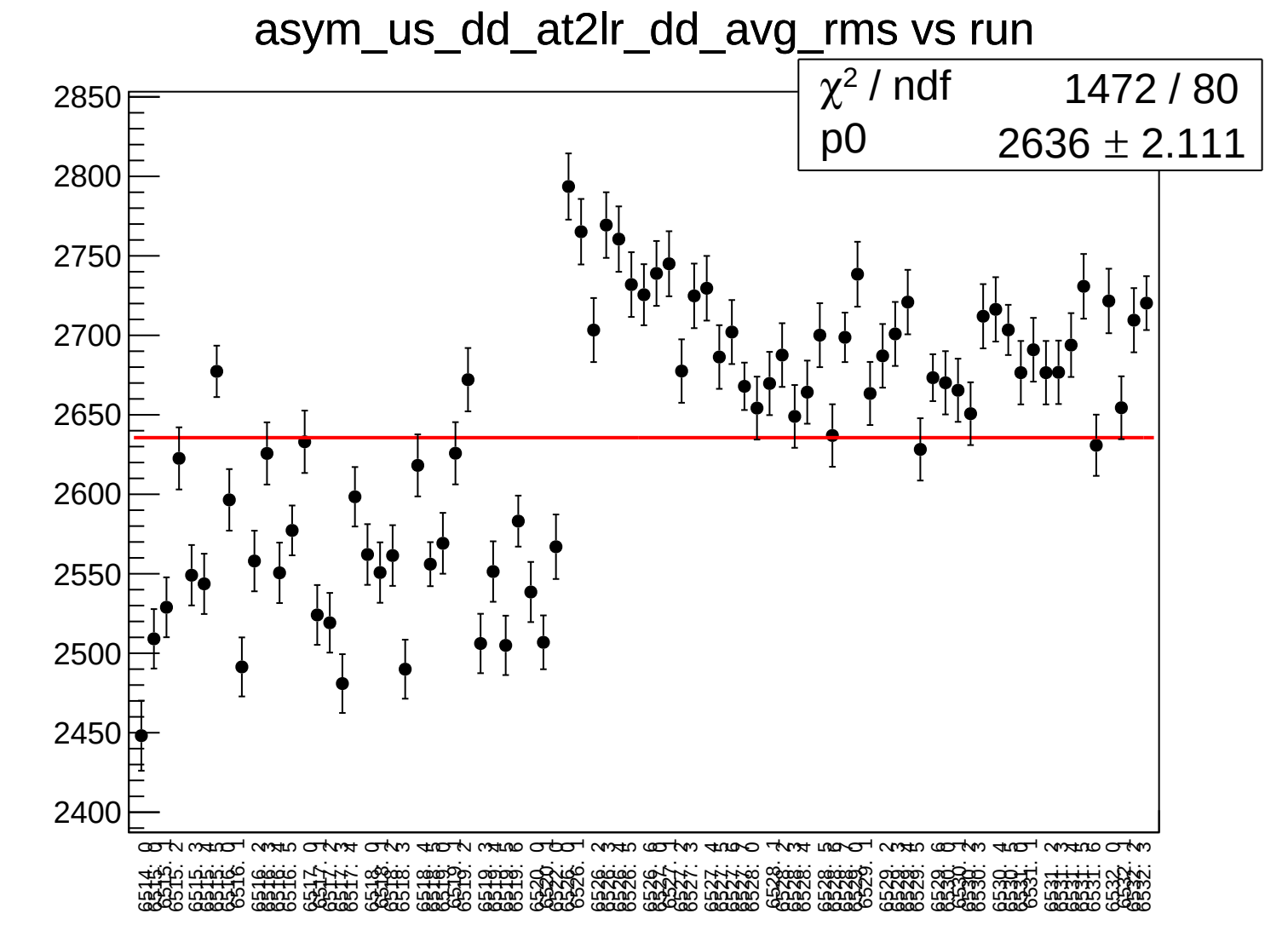

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 157 / 80
p0 2253 ± 1.803
2340
2320
2300
2280
2260
2240
2220
2200
2180
2160
2140

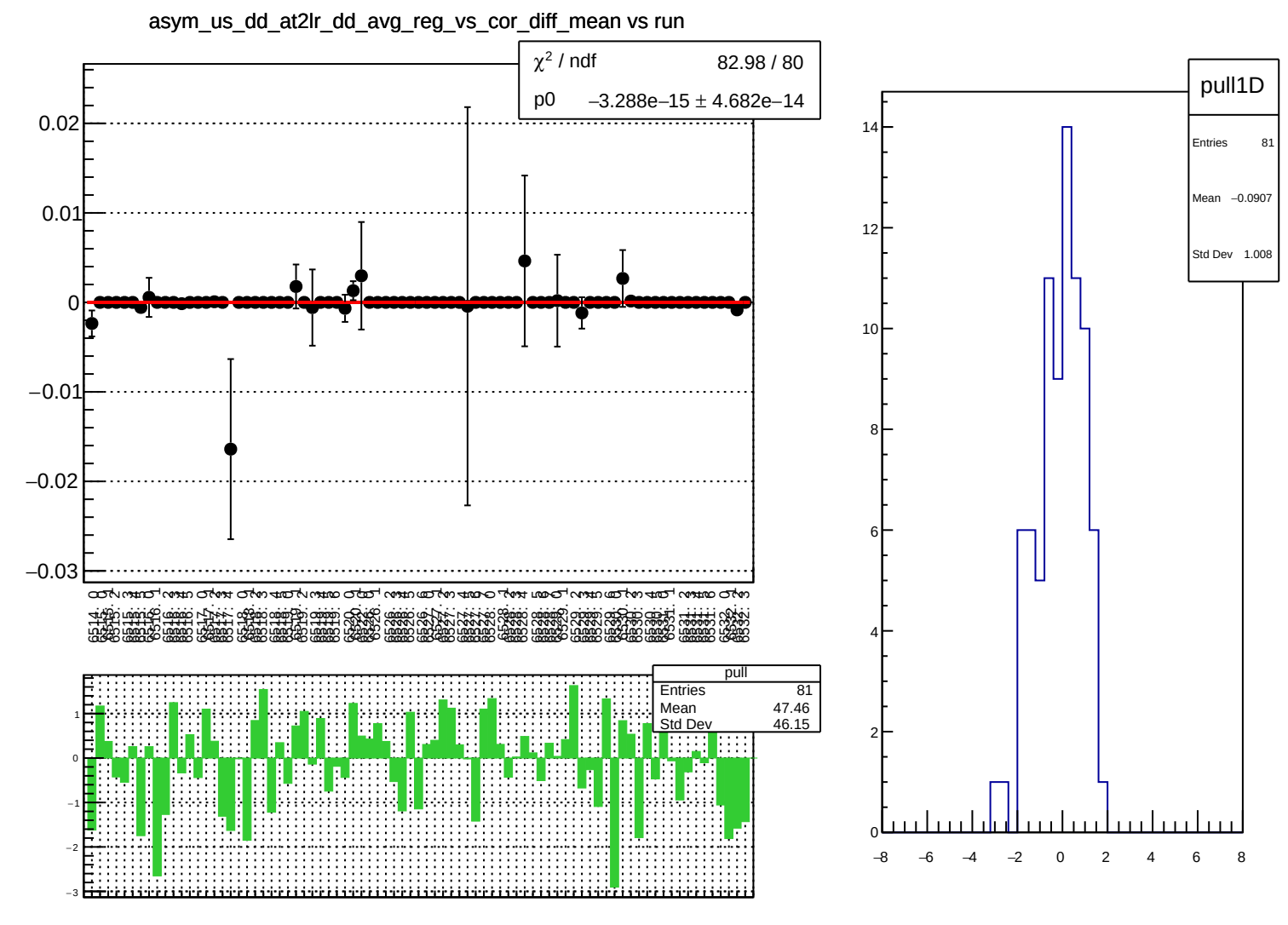

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 71.3 / 80
p0 1075 ± 1524
pull
Entries 81
Mean −442.4
Std Dev 0
pull1D
Entries 81
Mean −0.008605
Std Dev 0.9382

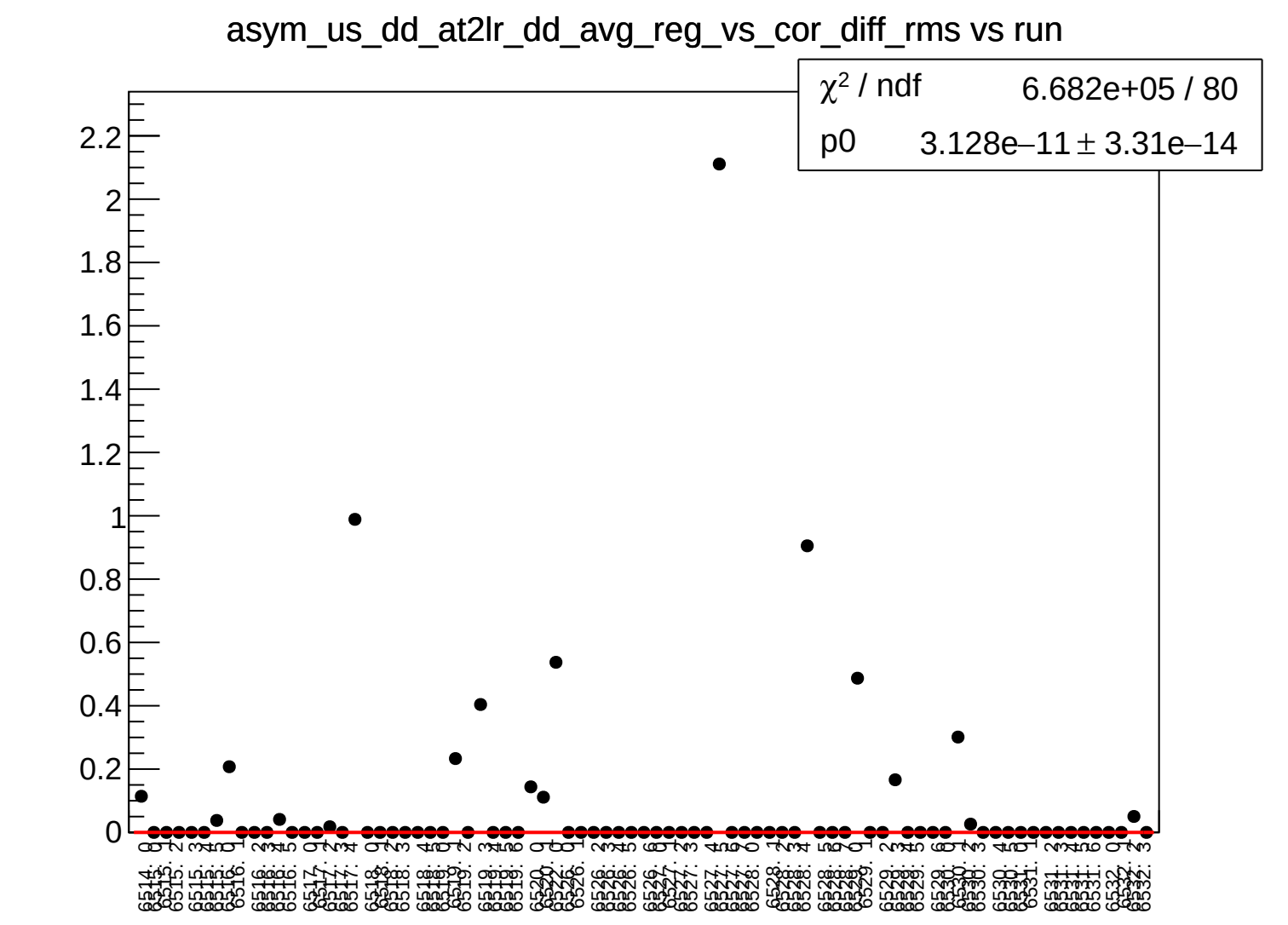

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.834e+04 / 80
p0 1334 ± 1.078
1600
1500
1400
1300
1200
1100
1000

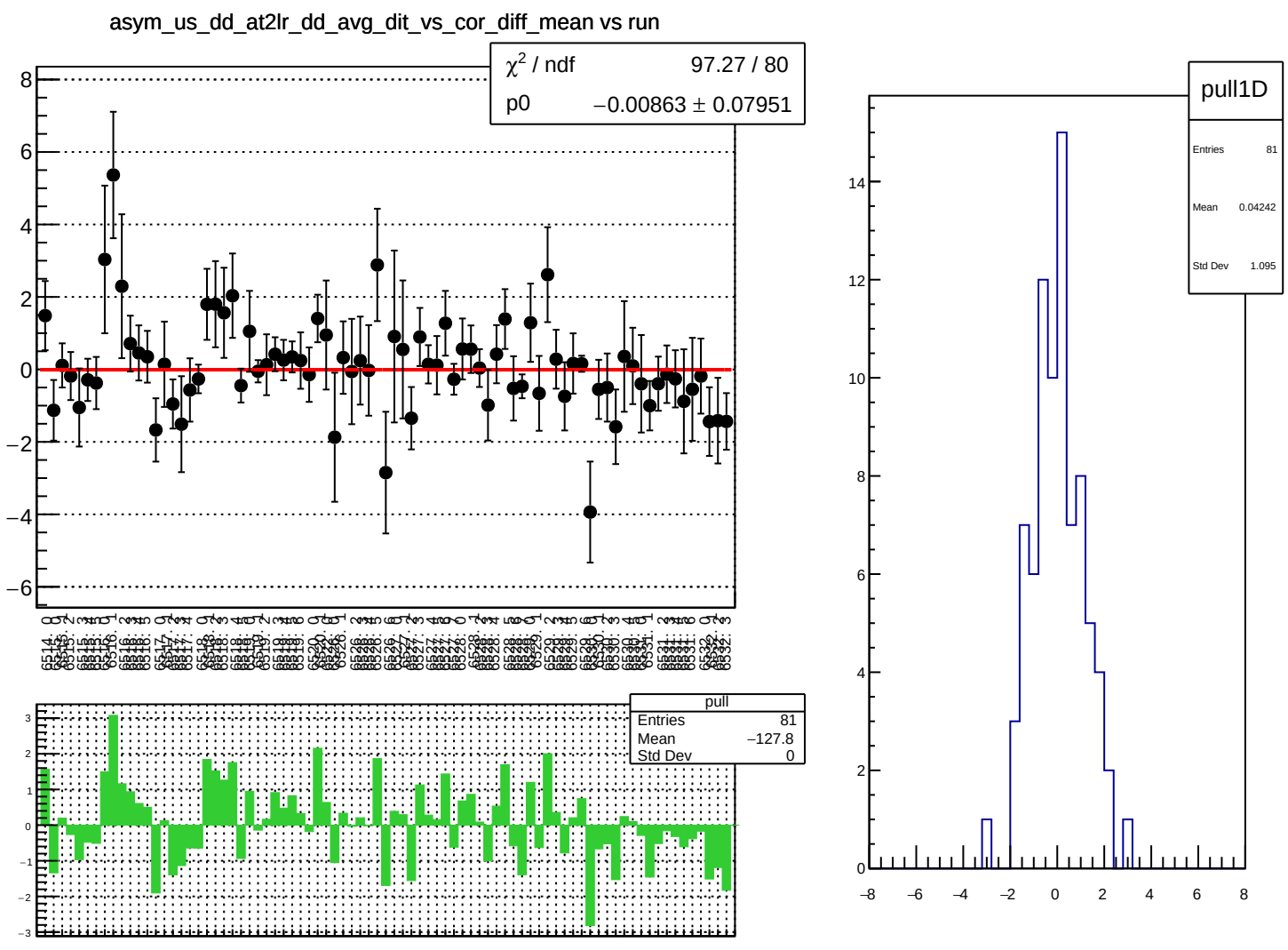

asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 67.86 / 80
p0 −2786 ± 2985
pull
Entries 81
Mean −230.4
Std Dev 0

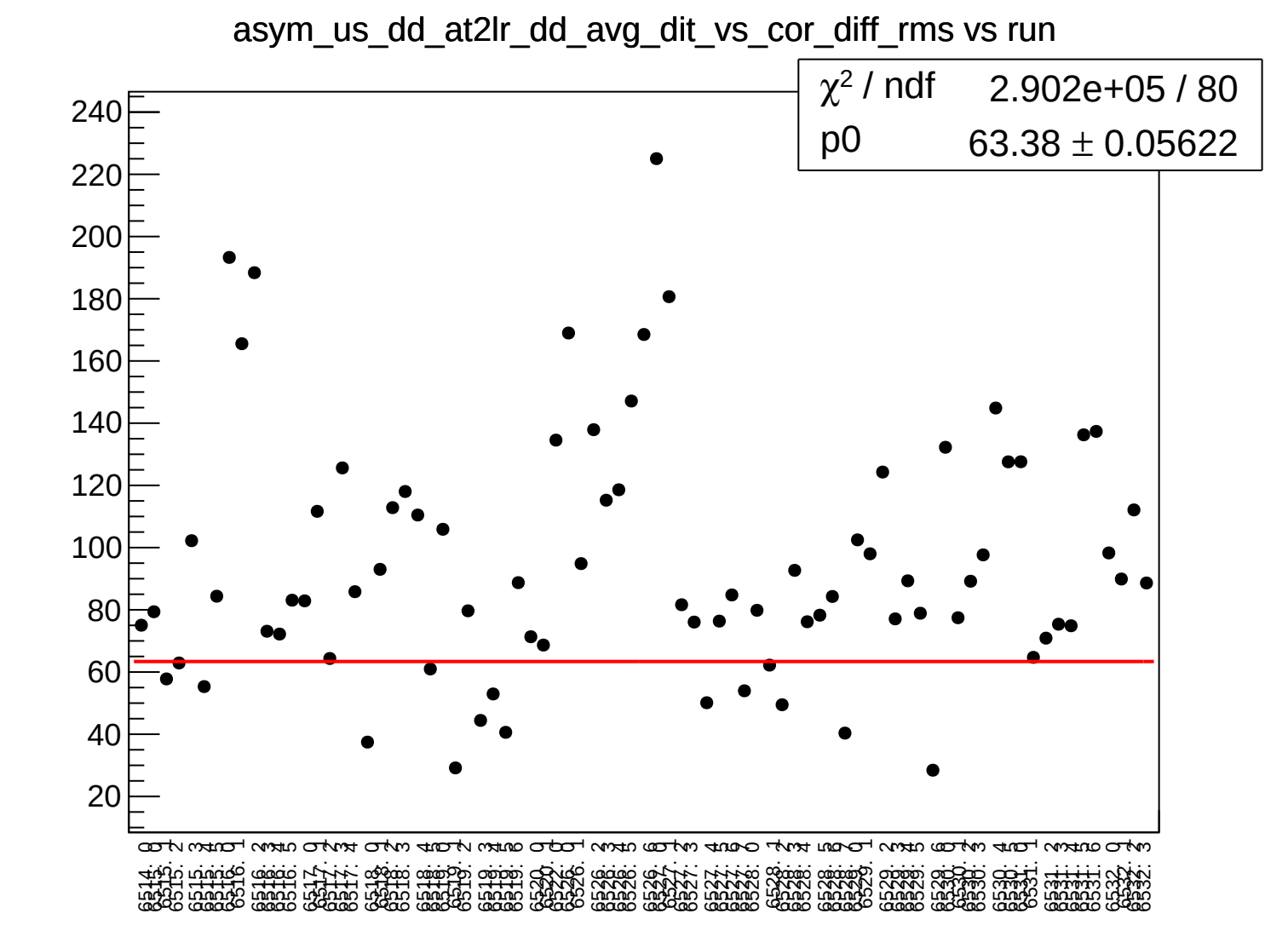

pull1D
Entries 81
Mean 0.01301
Std Dev 0.9152

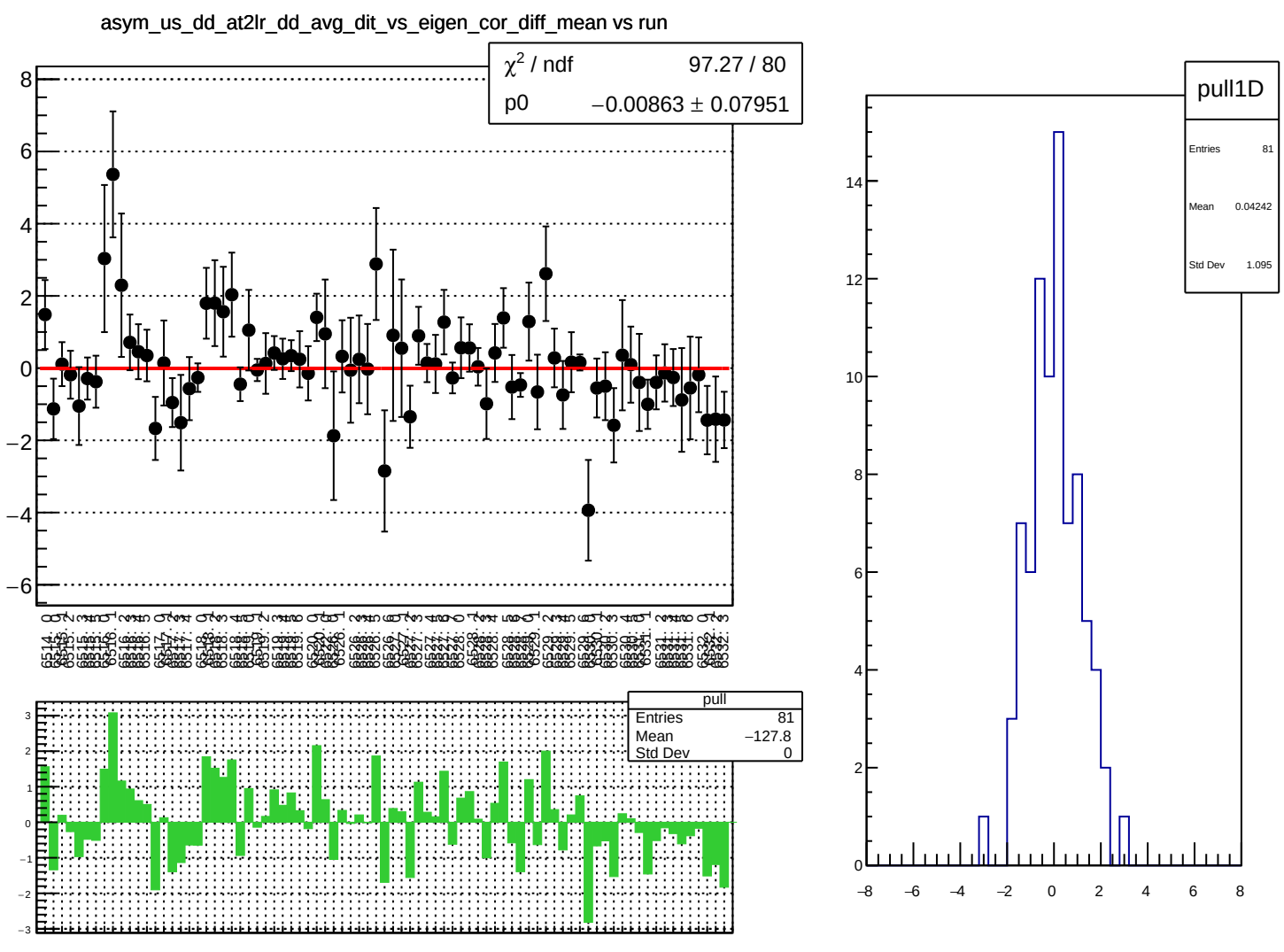

asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 1472 / 80
p0 2636 ± 2.111
2850
2800
2750
2700
2650
2600
2550
2500
2450
2400

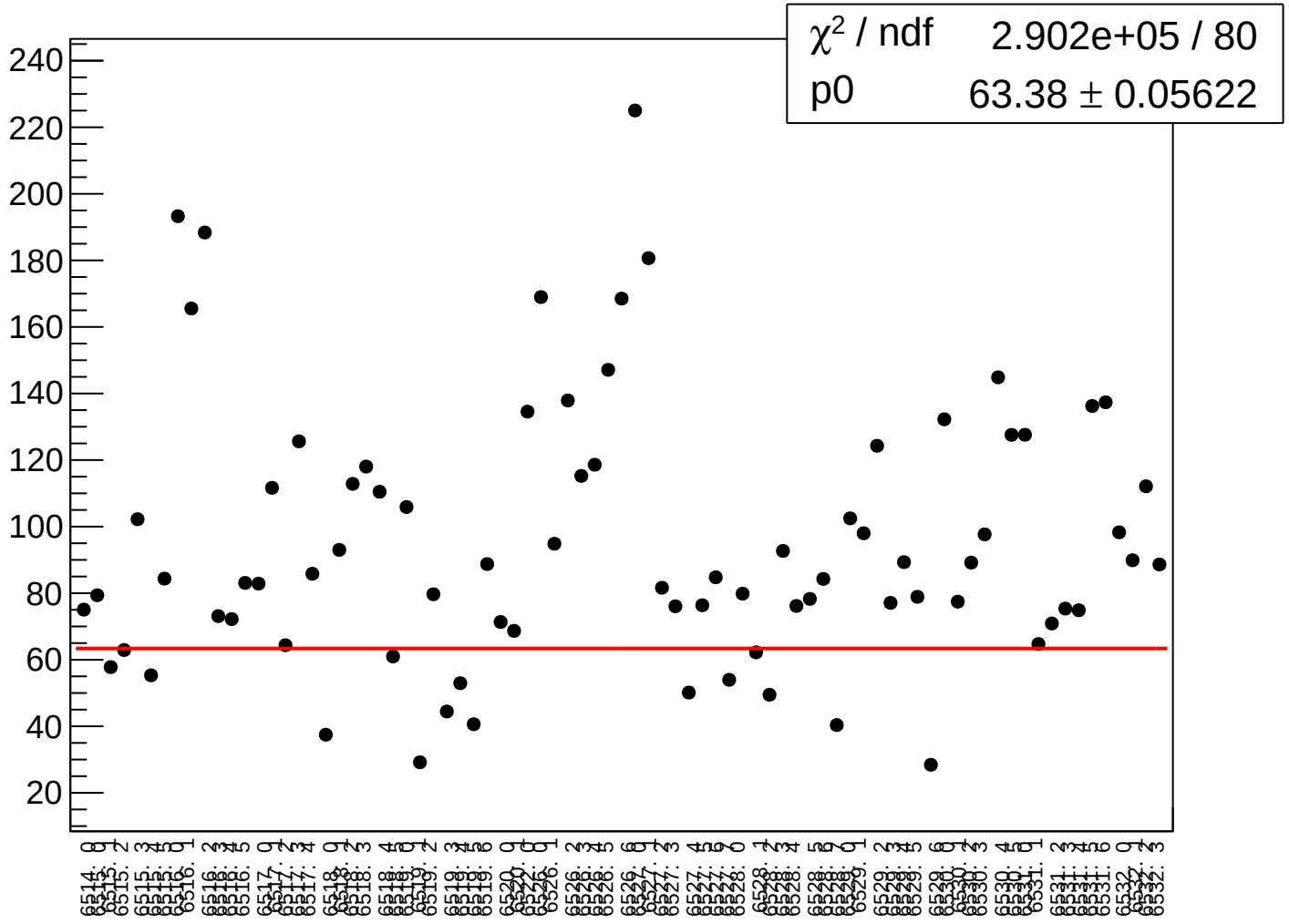

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 82.98 / 80
p0 −3.288e−15 ± 4.682e−14
pull
Entries 81
Mean 47.46
Std Dev 46.15
pull1D
Entries 81
Mean −0.0907
Std Dev 1.008

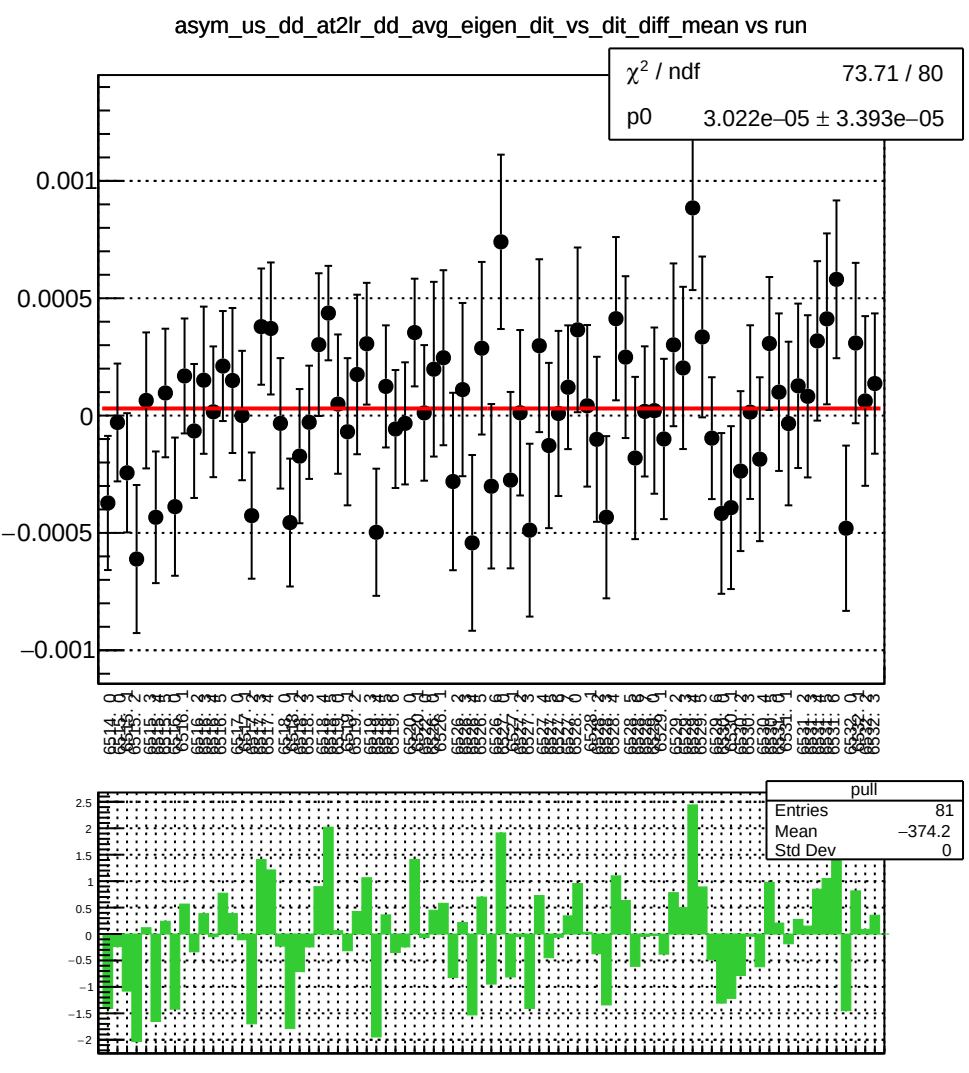

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 6.682e+05 / 80
p0 3.128e−11 ± 3.31e−14
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

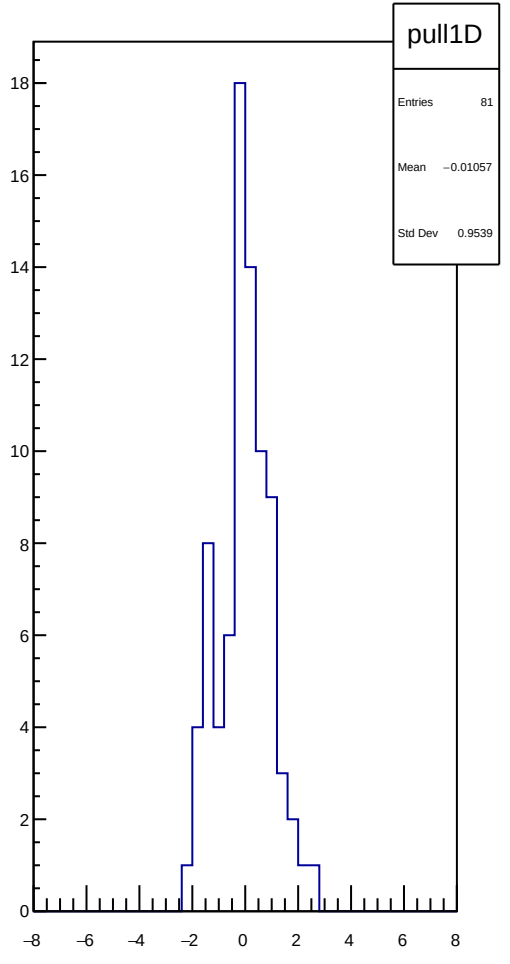

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 97.27 / 80
p0 −0.00863 ± 0.07951
pull
Entries 81
Mean −127.8
Std Dev 0
pull1D
Entries 81
Mean 0.04242
Std Dev 1.095

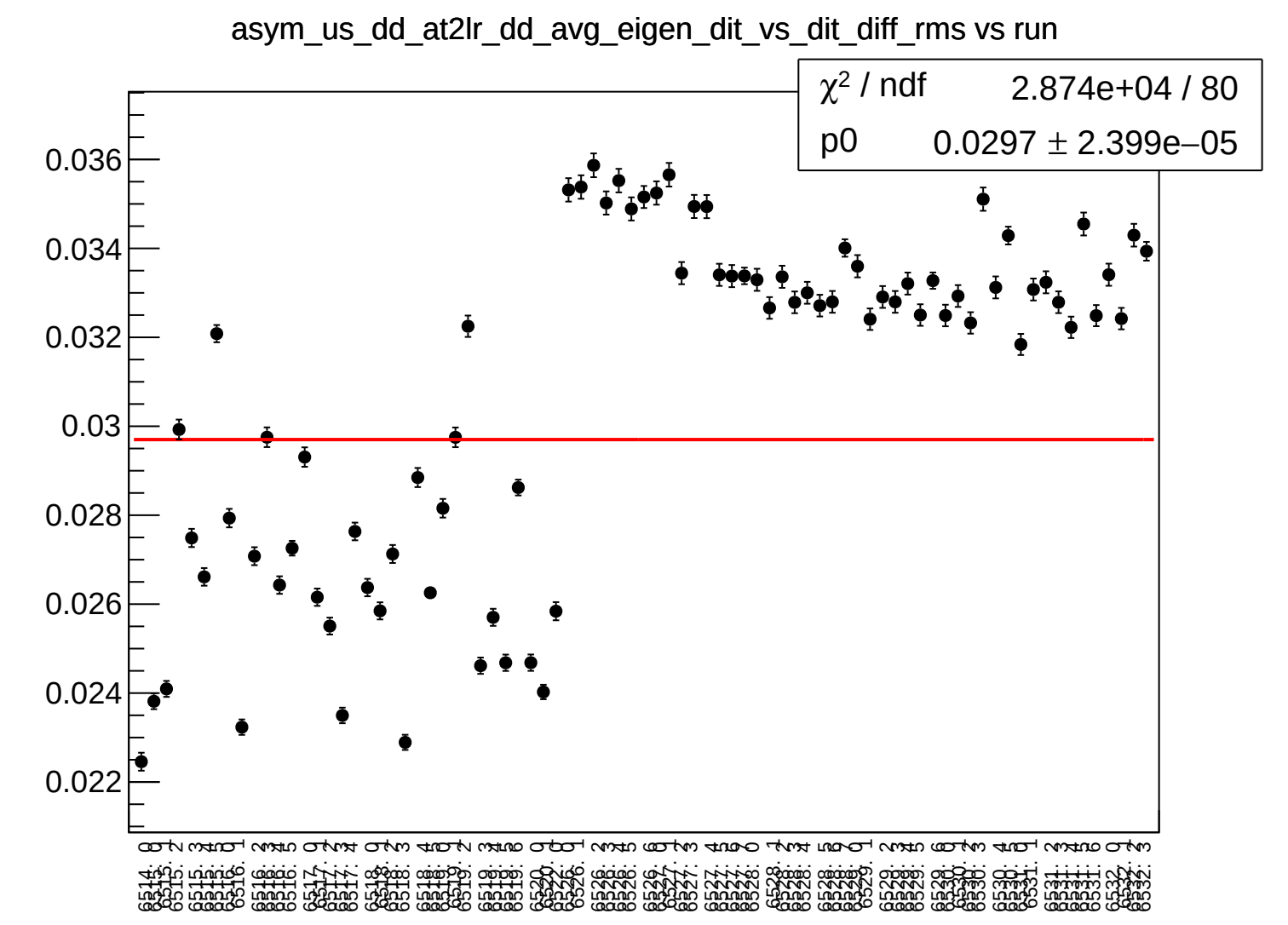

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.902e+05 / 80
p0 63.38 ± 0.05622
240
220
200
180
160
140
120
100
80
60
40
20


asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.27 / 80
p0 −0.00863 ± 0.07951
pull
Entries 81
Mean −127.8
Std Dev 0
pull1D
Entries 81
Mean 0.04242
Std Dev 1.095

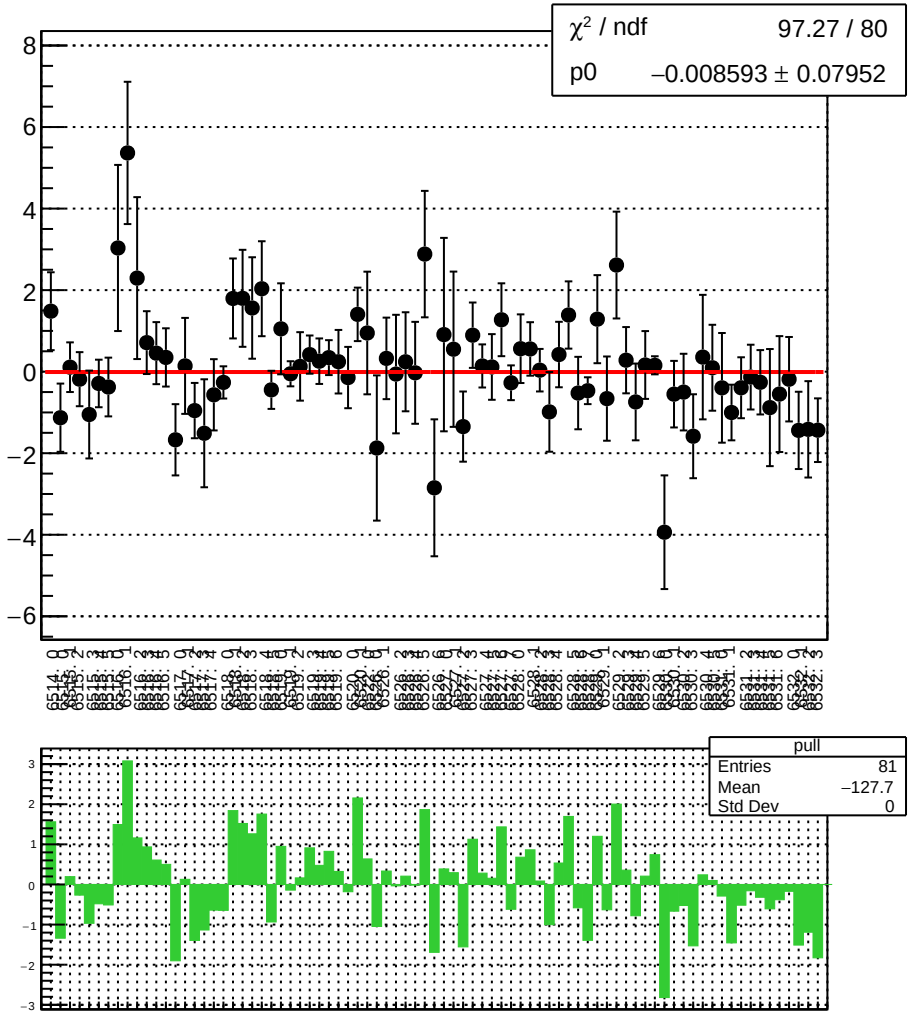

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.902e+05 / 80
p0 63.38 ± 0.05622
240
220
200
180
160
140
120
100
80
60
40
20

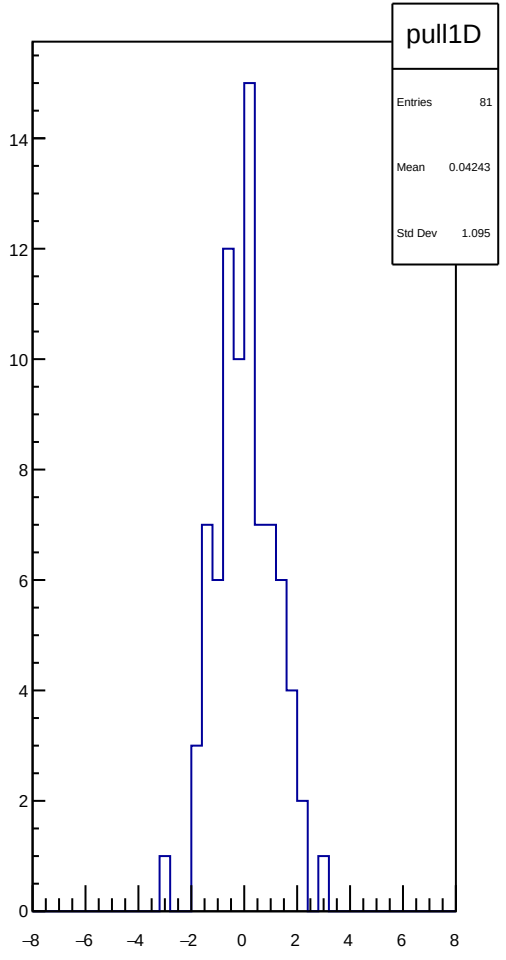

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 73.71 / 80
p0 3.022e−05 ± 3.393e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 81
Mean −374.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

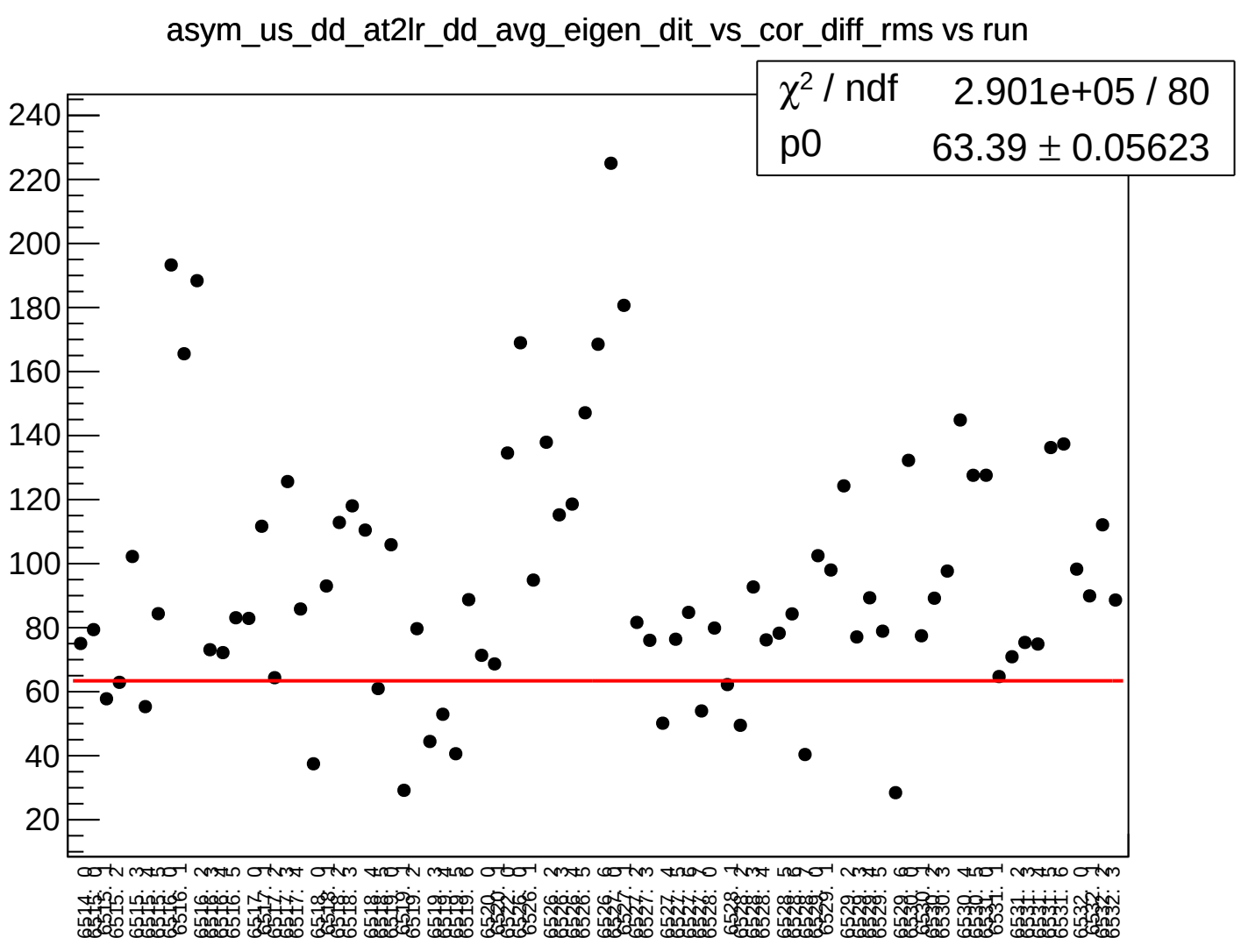

pull1D
Entries 81
Mean −0.01057
Std Dev 0.9539
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

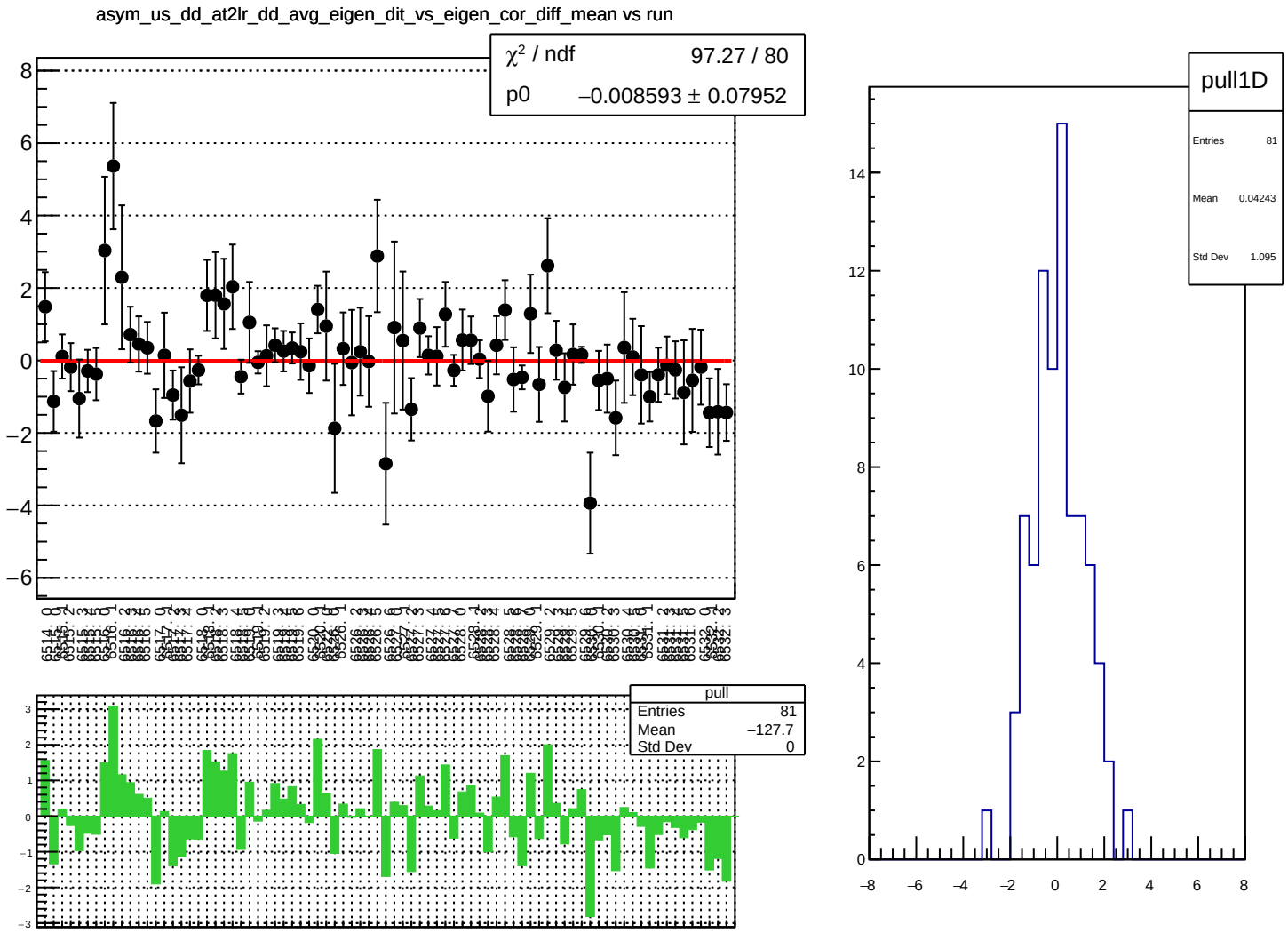

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.874e+04 / 80
p0 0.0297 ± 2.399e−05
0.036
0.034
0.032
0.03
0.028
0.026
0.024
0.022

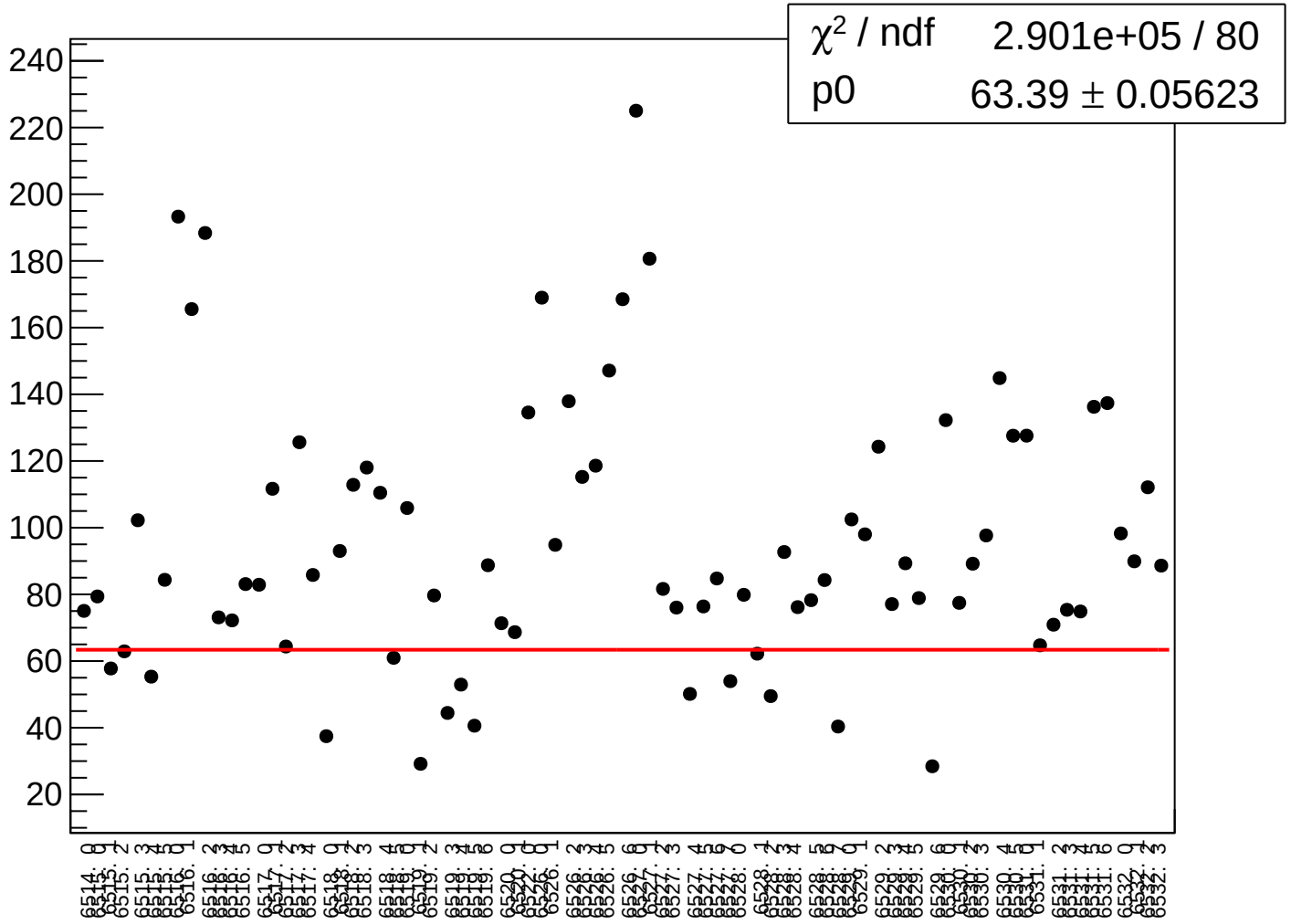
asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run

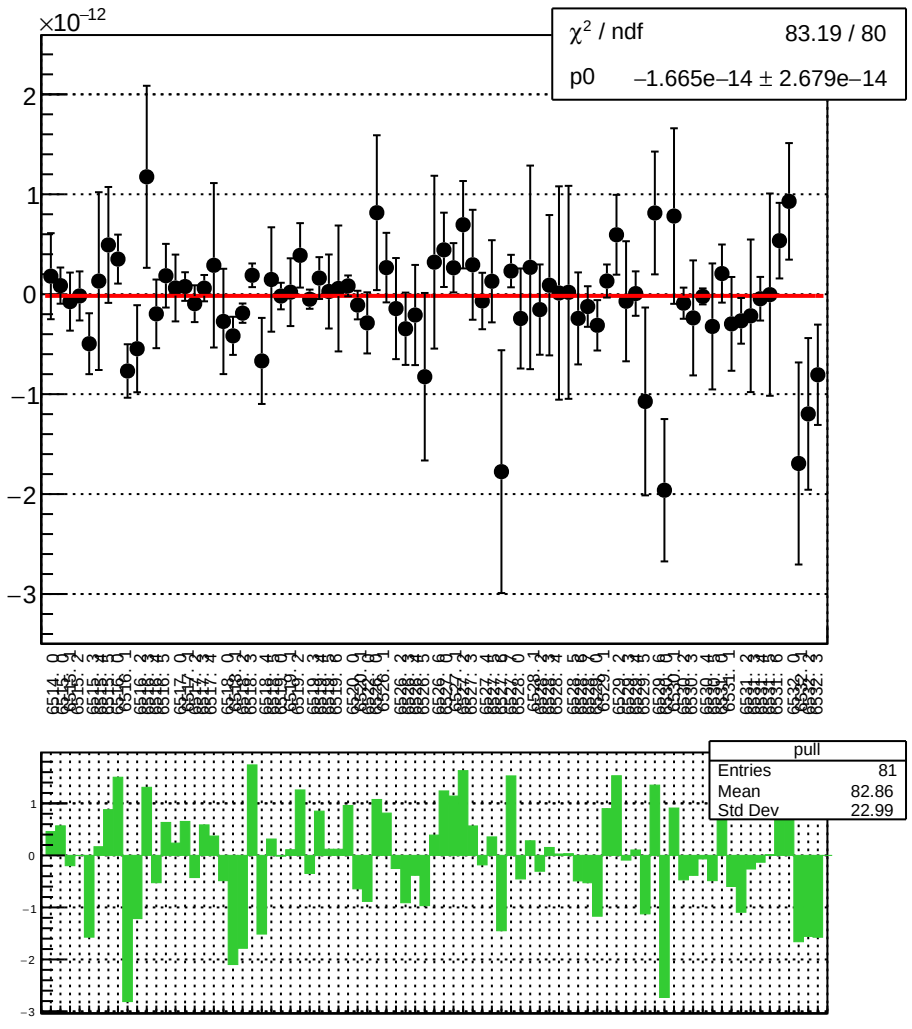


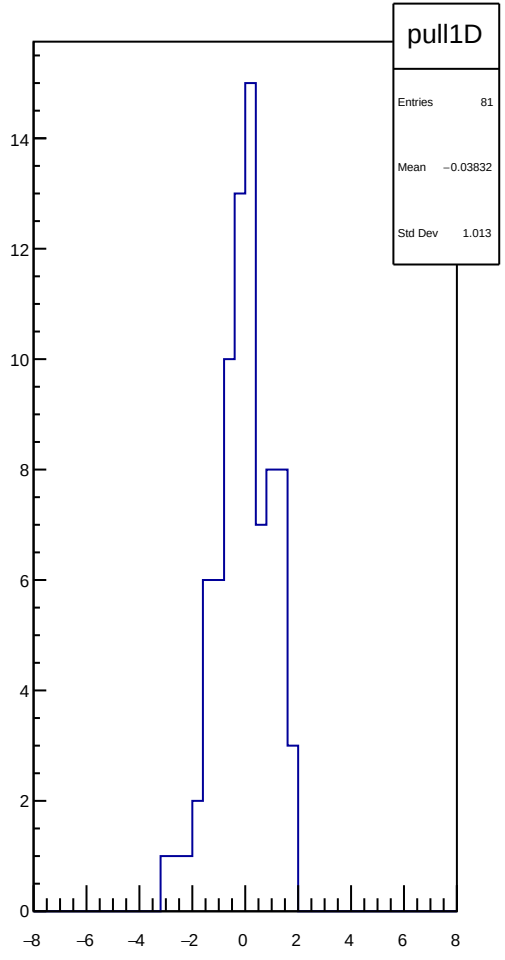


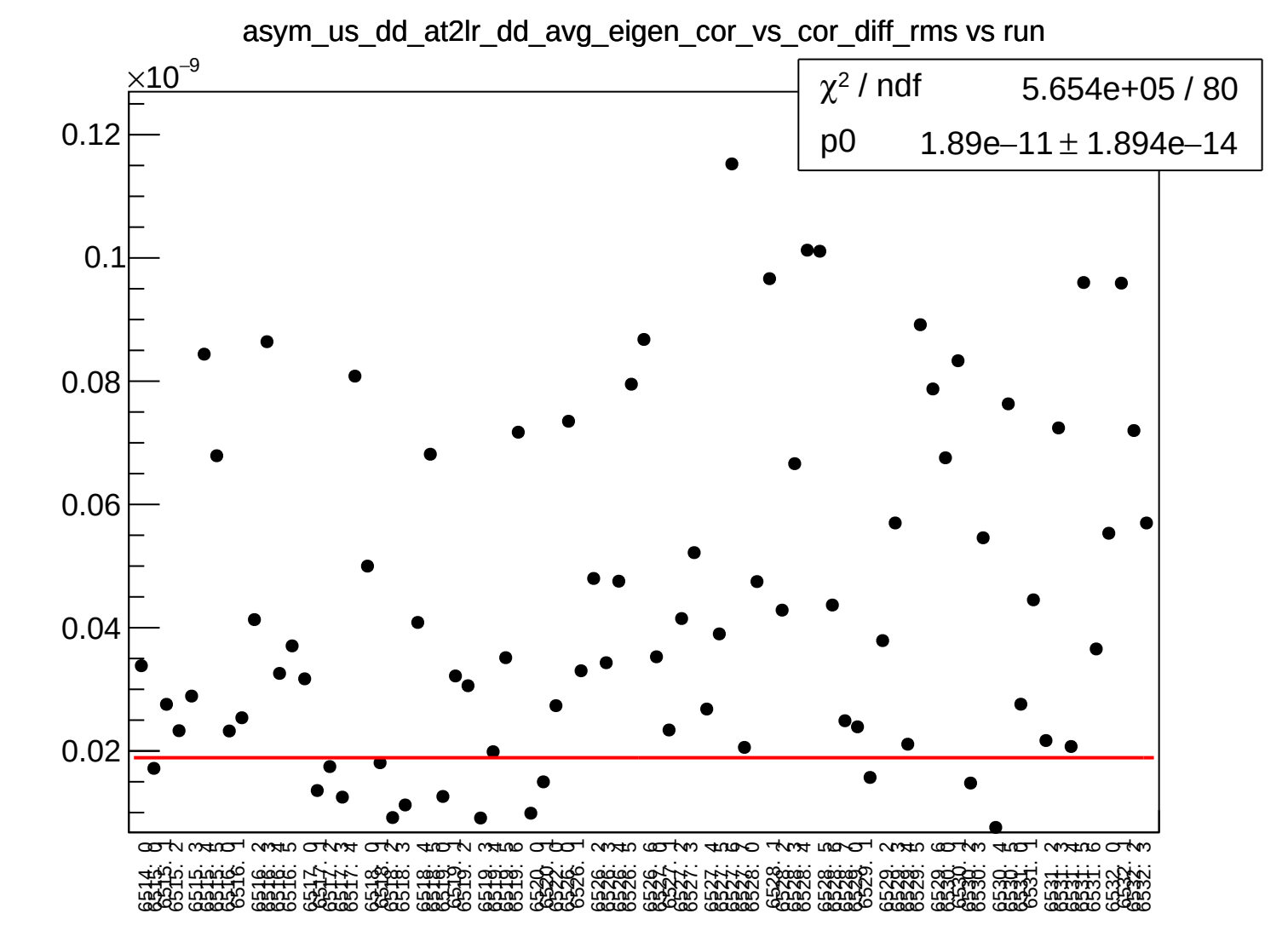

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.901e+05 / 80
p0 63.39 ± 0.05623
240
220
200
180
160
140
120
100
80
60
40
20

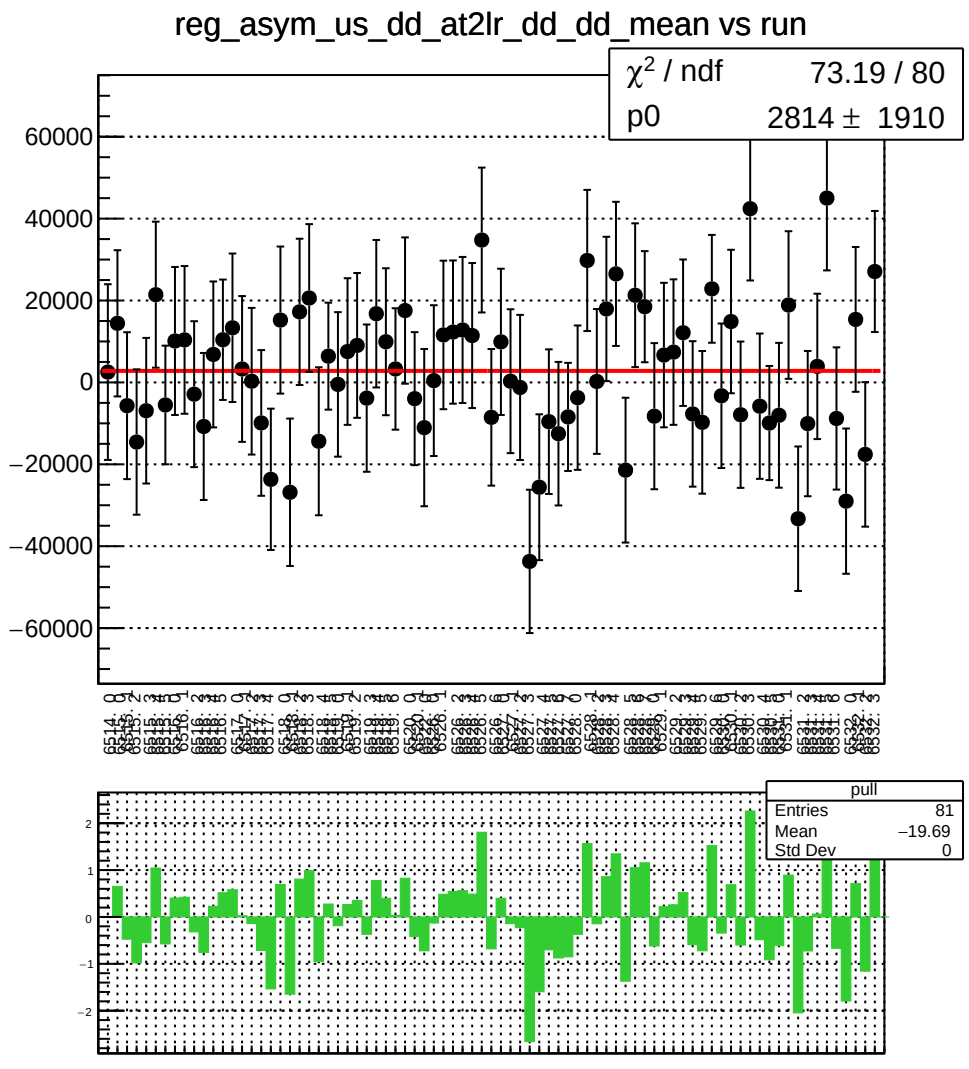

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.27 / 80
p0 −0.008593 ± 0.07952
pull
Entries 81
Mean −127.7
Std Dev 0
pull1D
Entries 81
Mean 0.04243
Std Dev 1.095

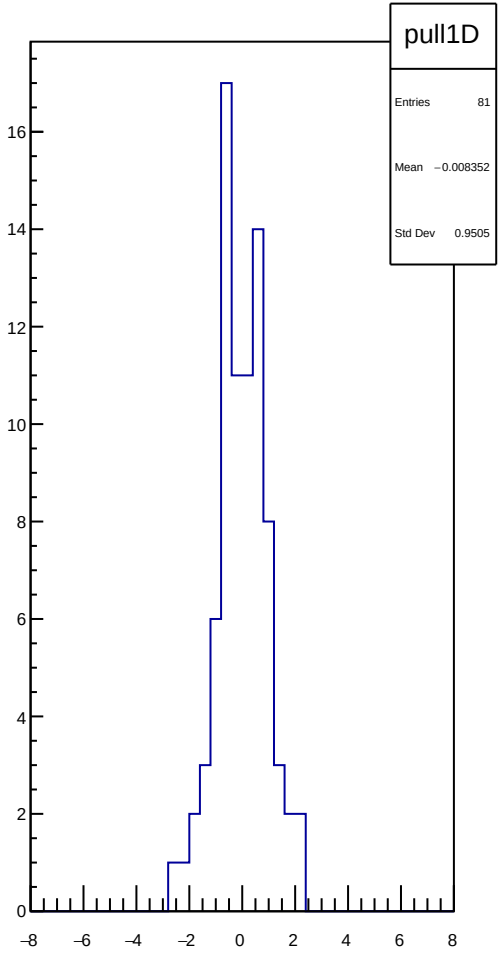

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.901e+05 / 80
p0 63.39 ± 0.05623
240
220
200
180
160
140
120
100
80
60
40
20

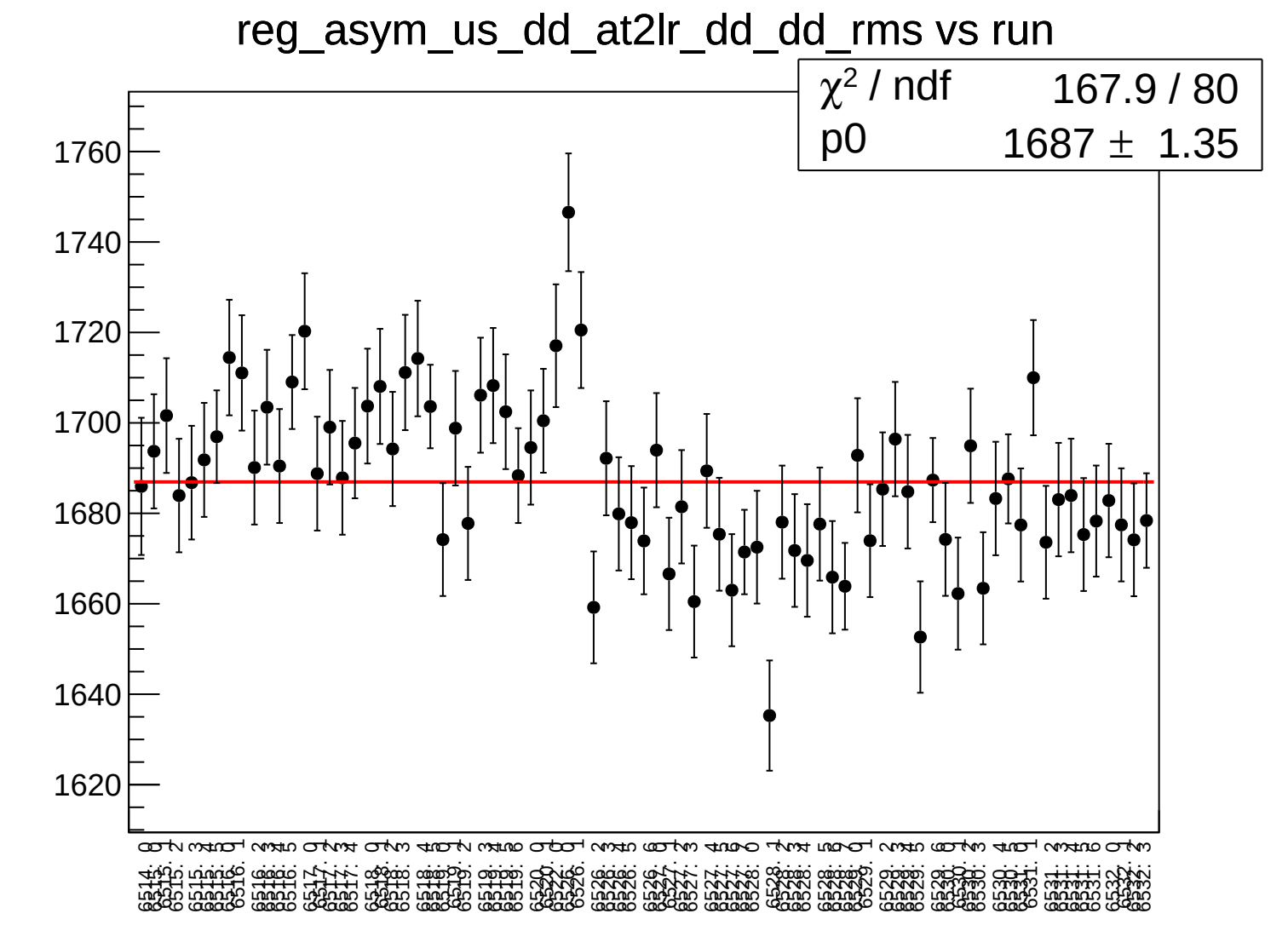

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.19 / 80
p0 −1.665e−14 ± 2.679e−14
pull
Entries 81
Mean 82.86
Std Dev 22.99

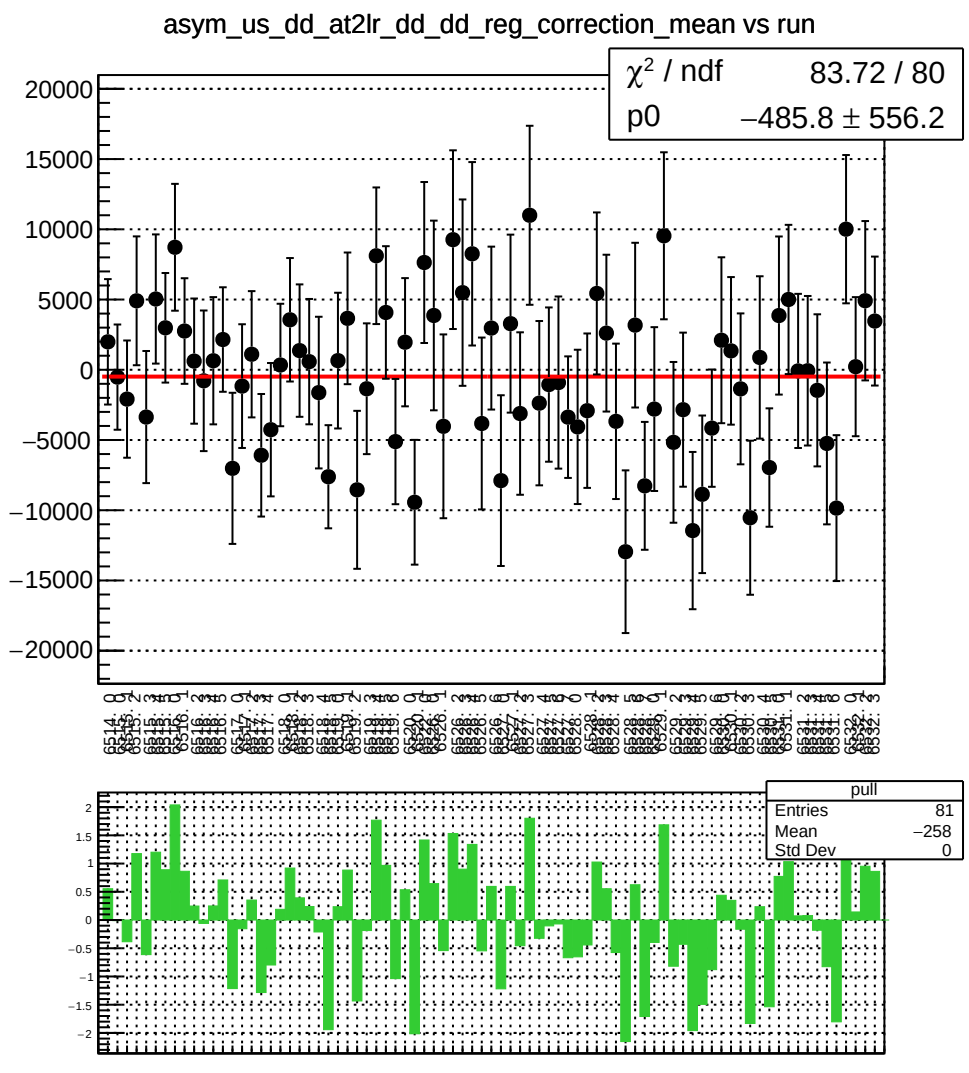

pull1D
Entries 81
Mean −0.03832
Std Dev 1.013

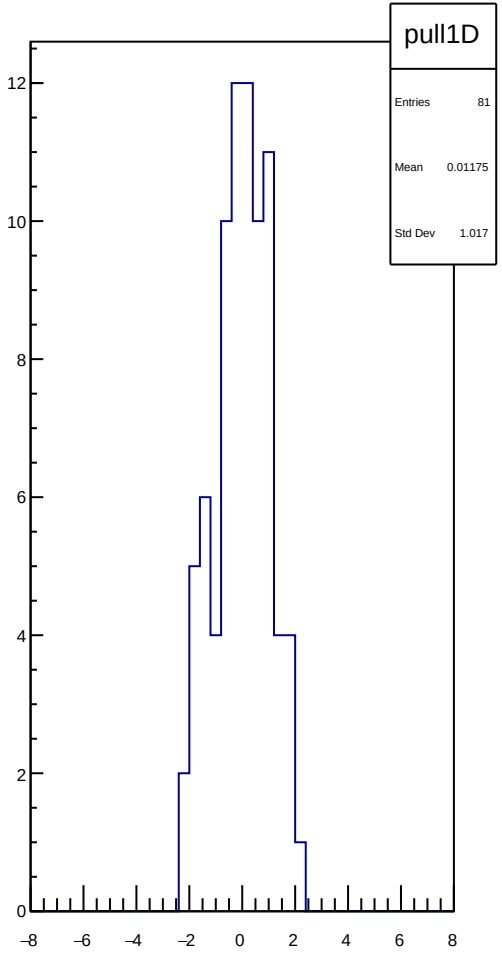

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.654e+05 / 80
p0 1.89e−11 ± 1.894e−14
0.12
0.1
0.08
0.06
0.04
0.02

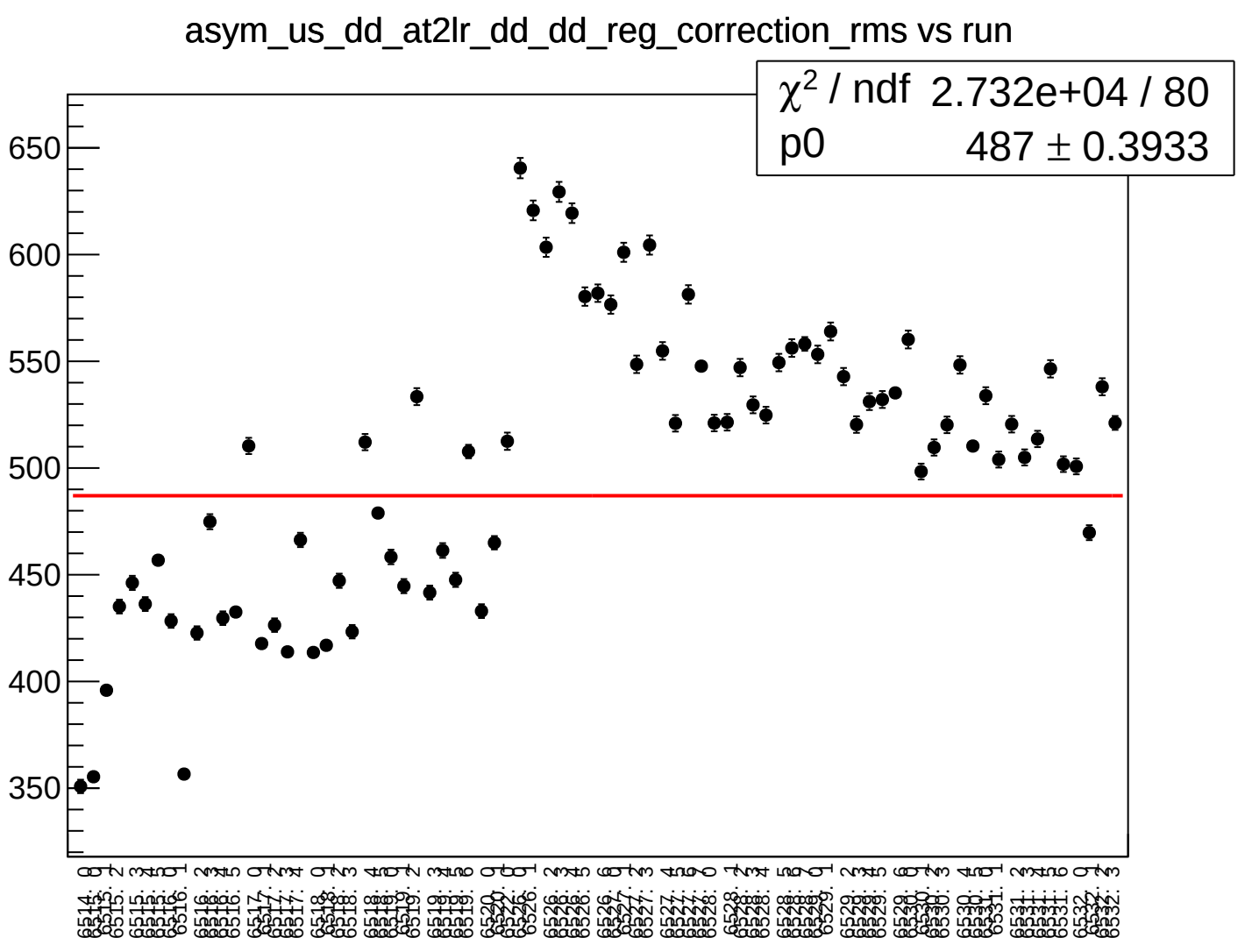

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 73.19 / 80
p0 2814 ± 1910
pull
Entries 81
Mean −19.69
Std Dev 0

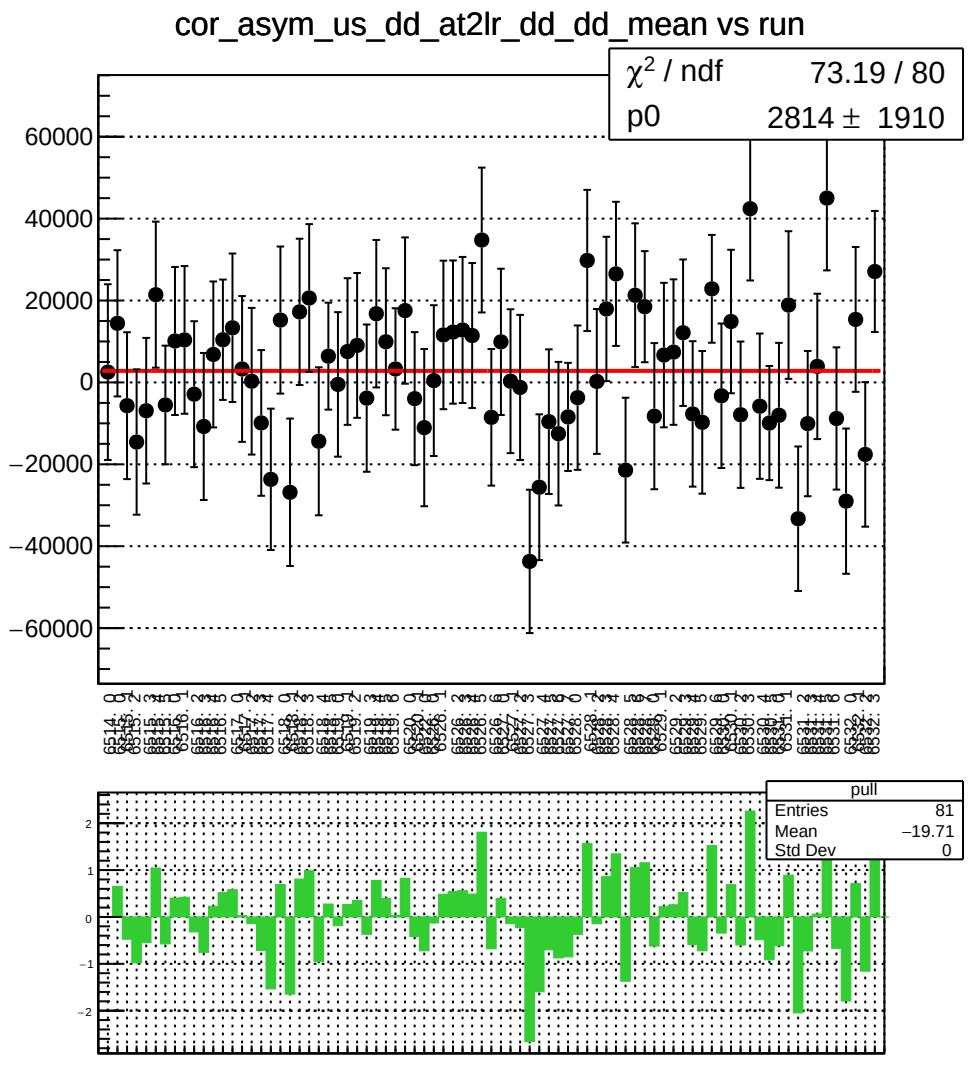

pull1D
Entries 81
Mean −0.008352
Std Dev 0.9505

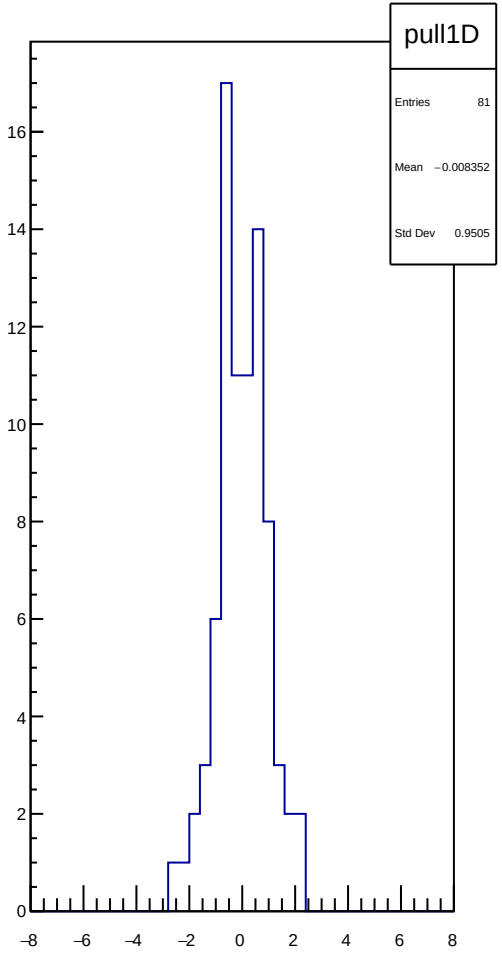

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 167.9 / 80
p0 1687 ± 1.35
1760
1740
1720
1700
1680
1660
1640
1620

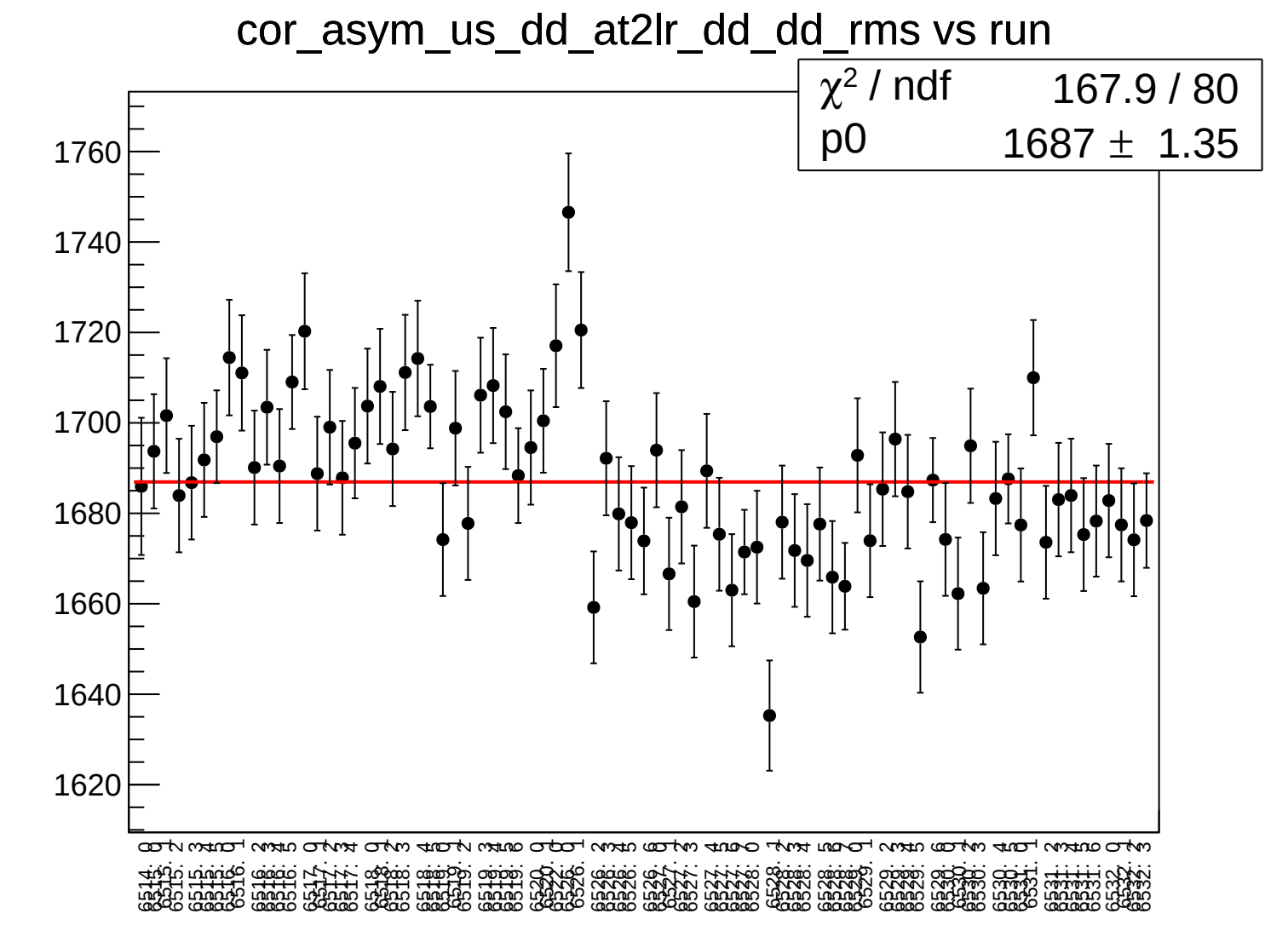

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 83.72 / 80
p0 −485.8 ± 556.2
pull
Entries 81
Mean −258
Std Dev 0

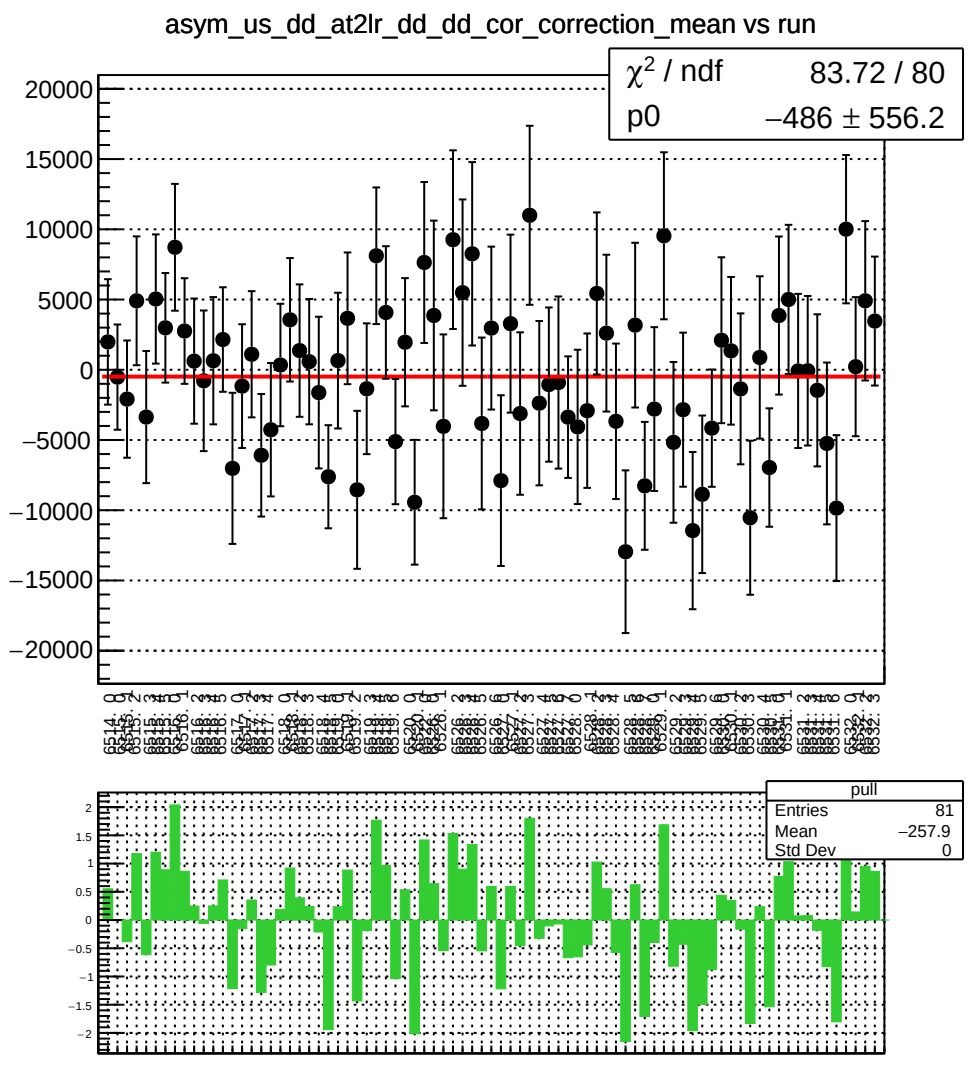

pull1D
Entries 81
Mean 0.01175
Std Dev 1.017

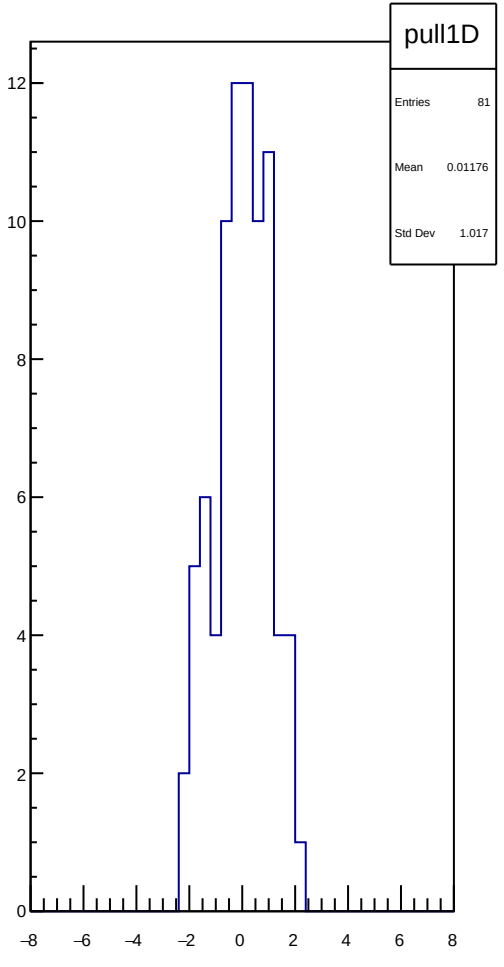

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 2.732e+04 / 80
p0 487 ± 0.3933
650
600
550
500
450
400
350

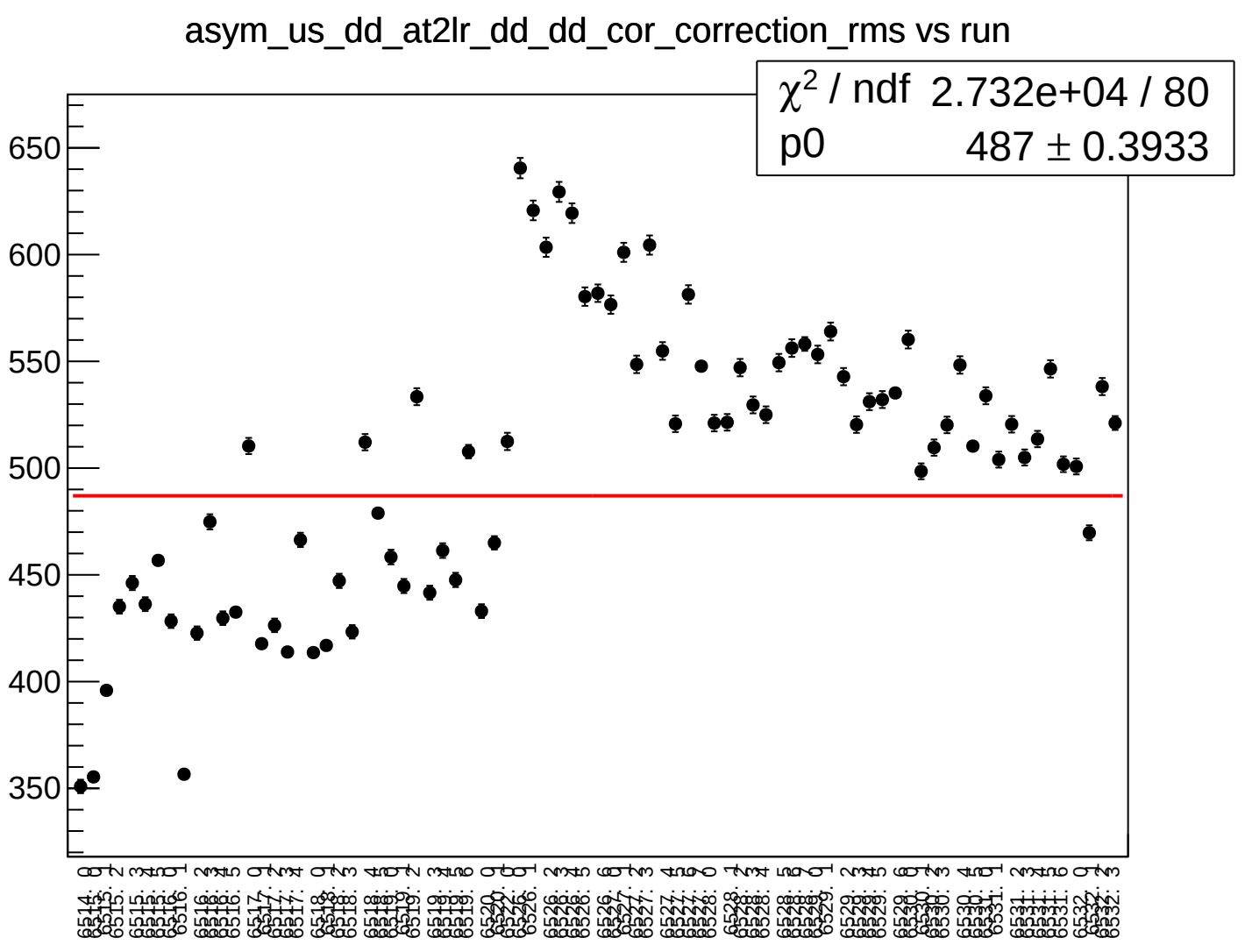

cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 73.19 / 80
p0 2814 ± 1910
pull
Entries 81
Mean −19.71
Std Dev 0

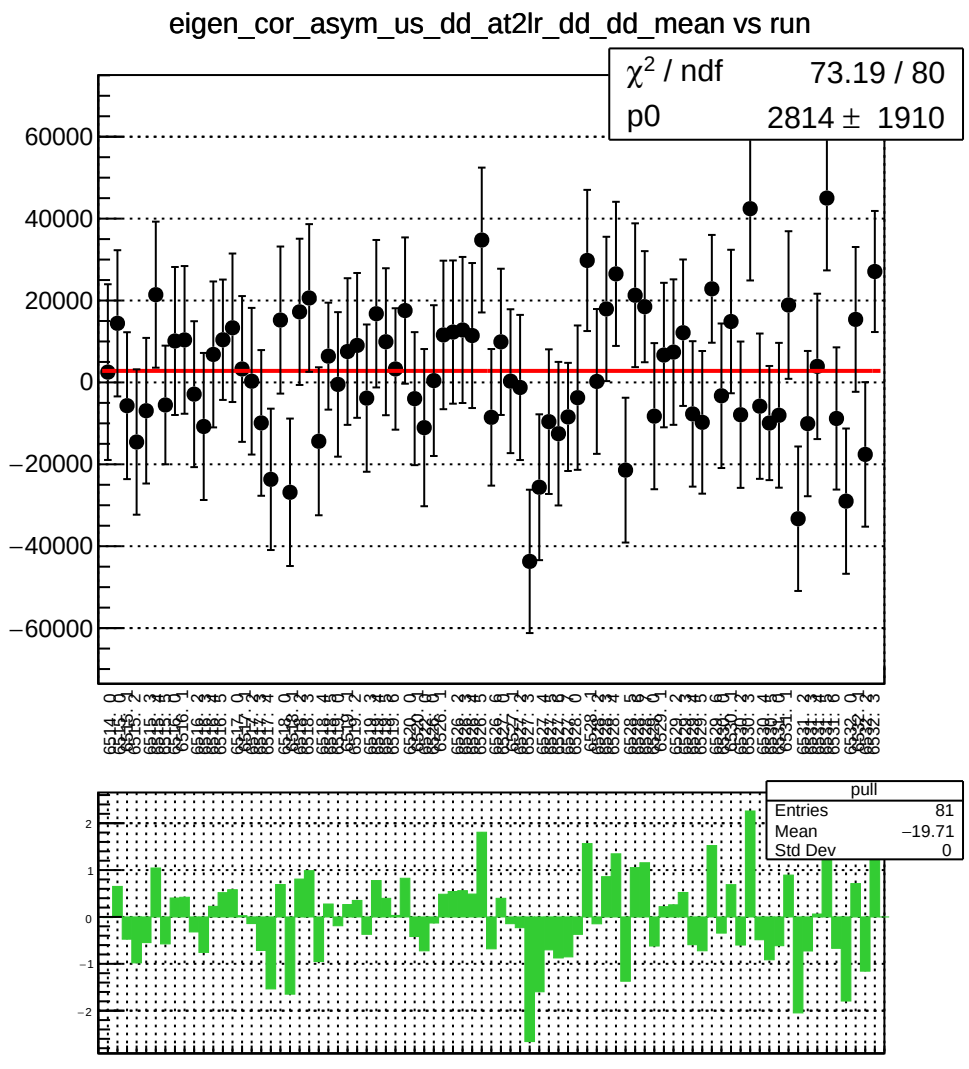

pull1D
Entries 81
Mean −0.008352
Std Dev 0.9505

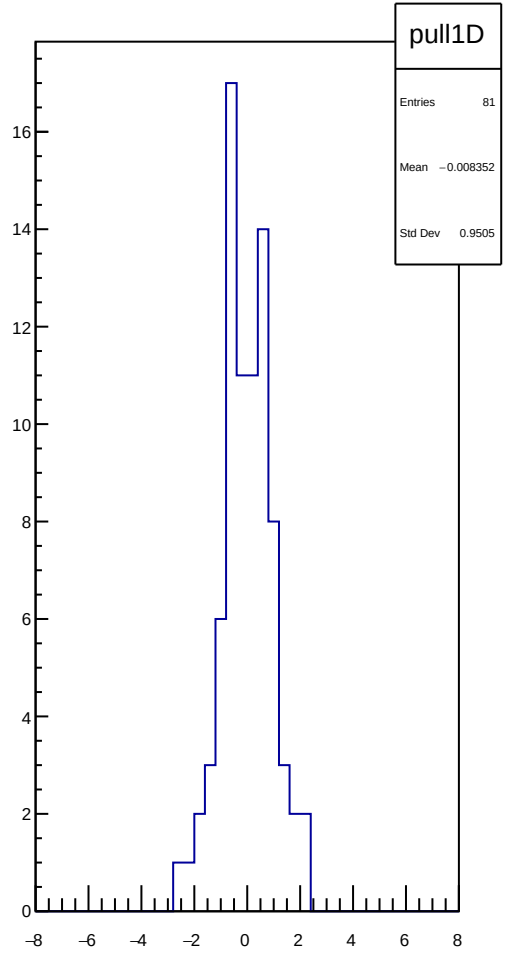

cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 167.9 / 80
p0 1687 ± 1.35
1760
1740
1720
1700
1680
1660
1640
1620

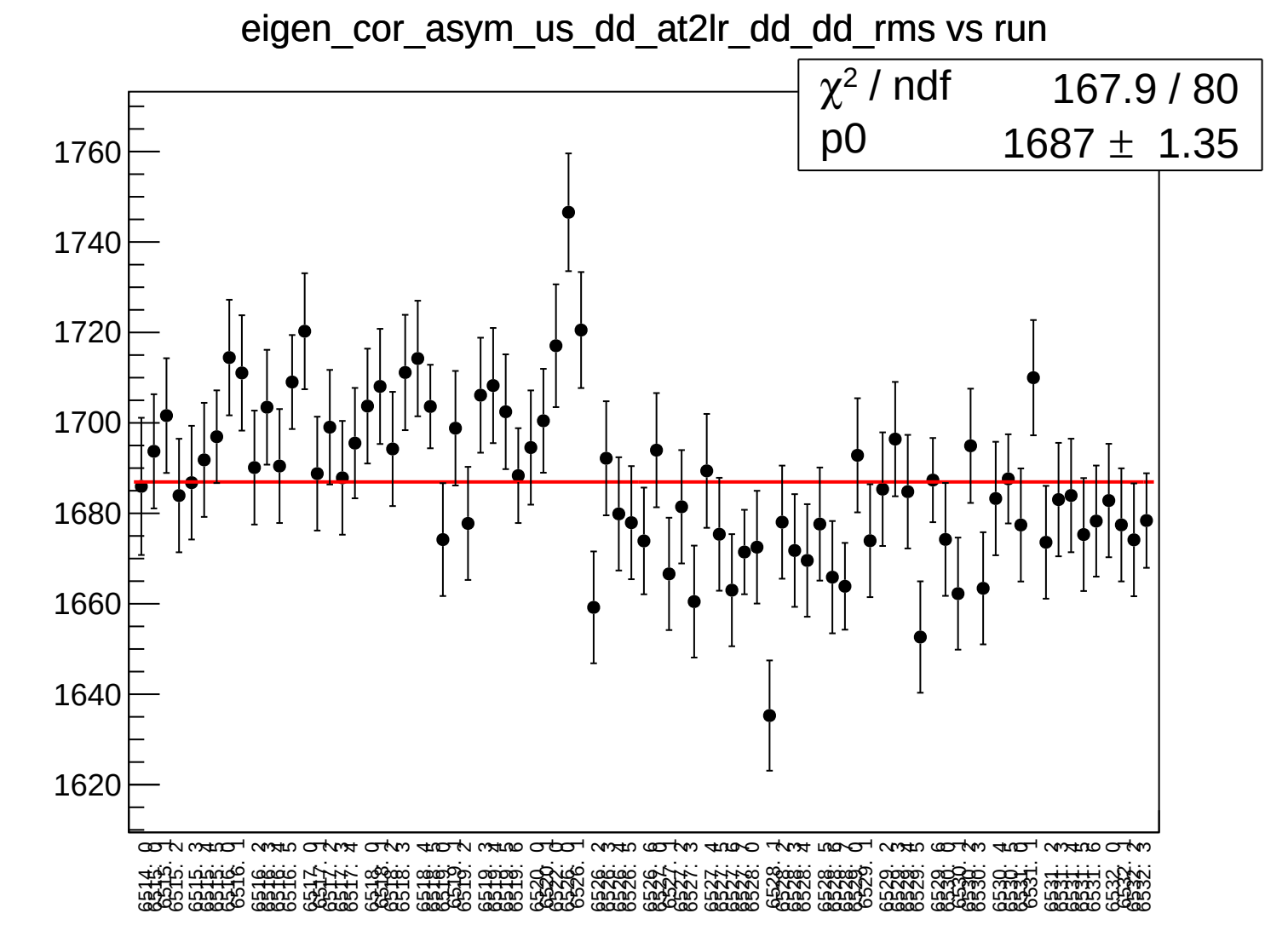

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 83.72 / 80
p0 −486 ± 556.2
pull
Entries 81
Mean −257.9
Std Dev 0

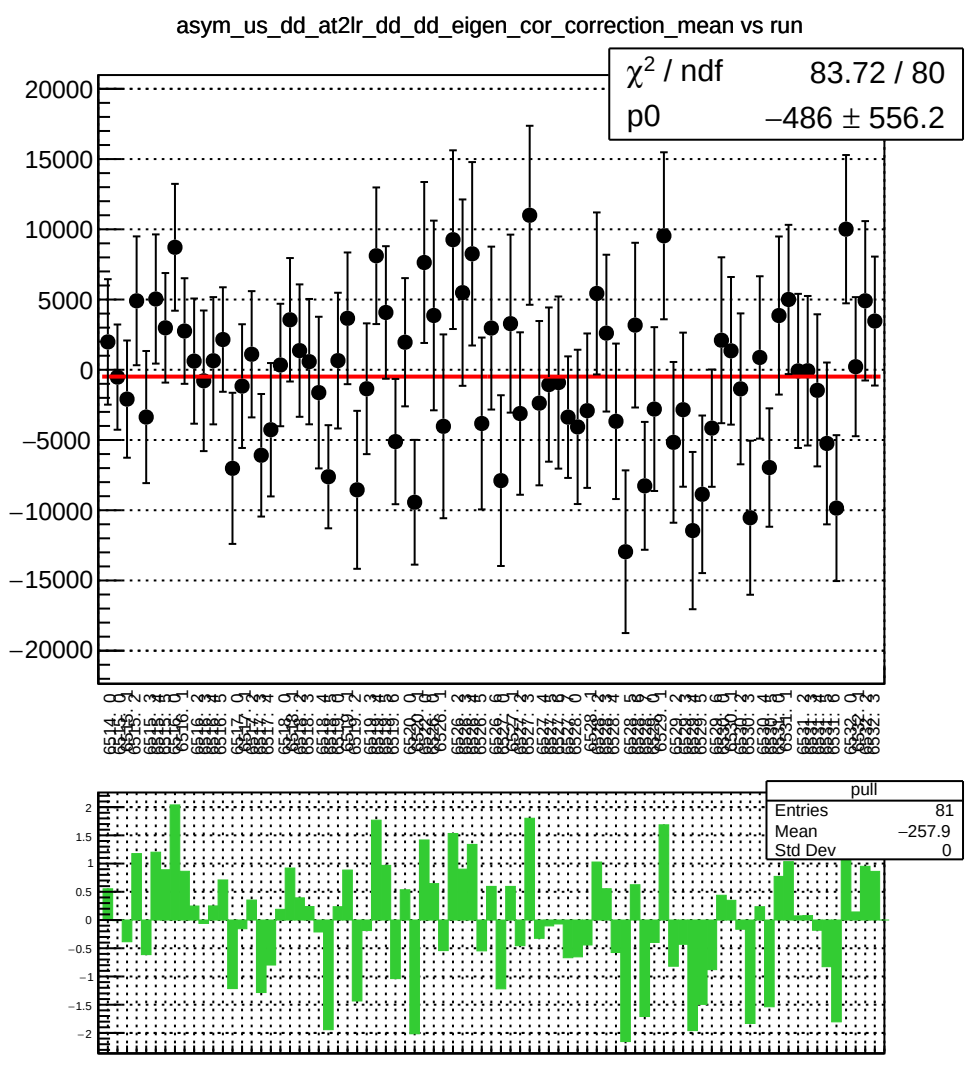

pull1D
Entries 81
Mean 0.01176
Std Dev 1.017

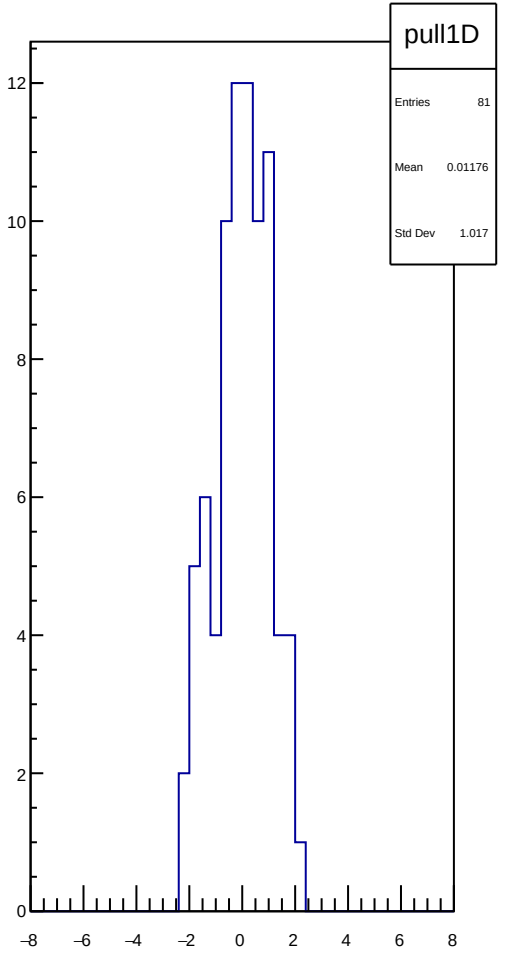

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 2.732e+04 / 80
p0 487 ± 0.3933
650
600
550
500
450
400
350

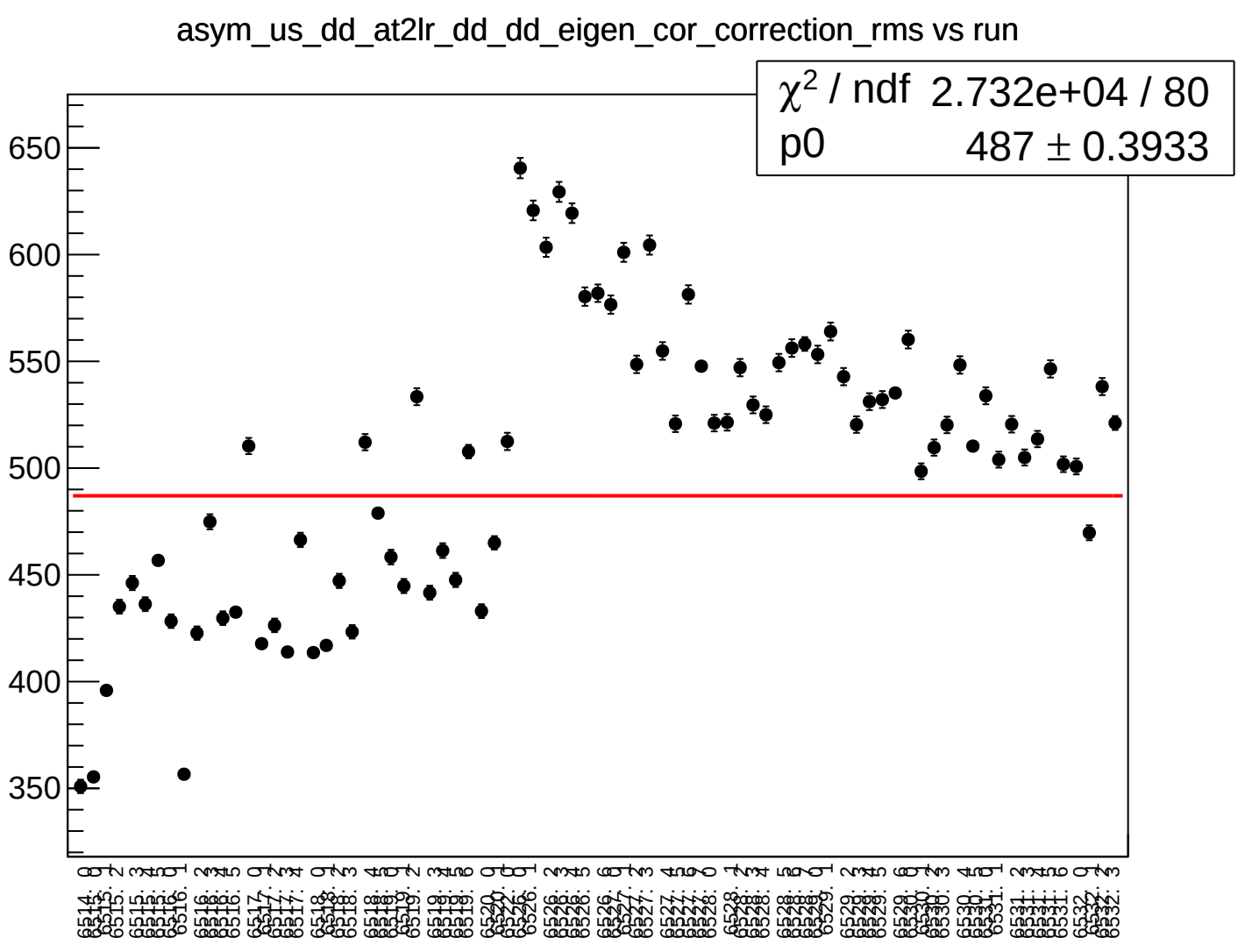

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 73.19 / 80
p0 2814 ± 1910
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −19.71
Std Dev 0
2
1
0
−1
−2

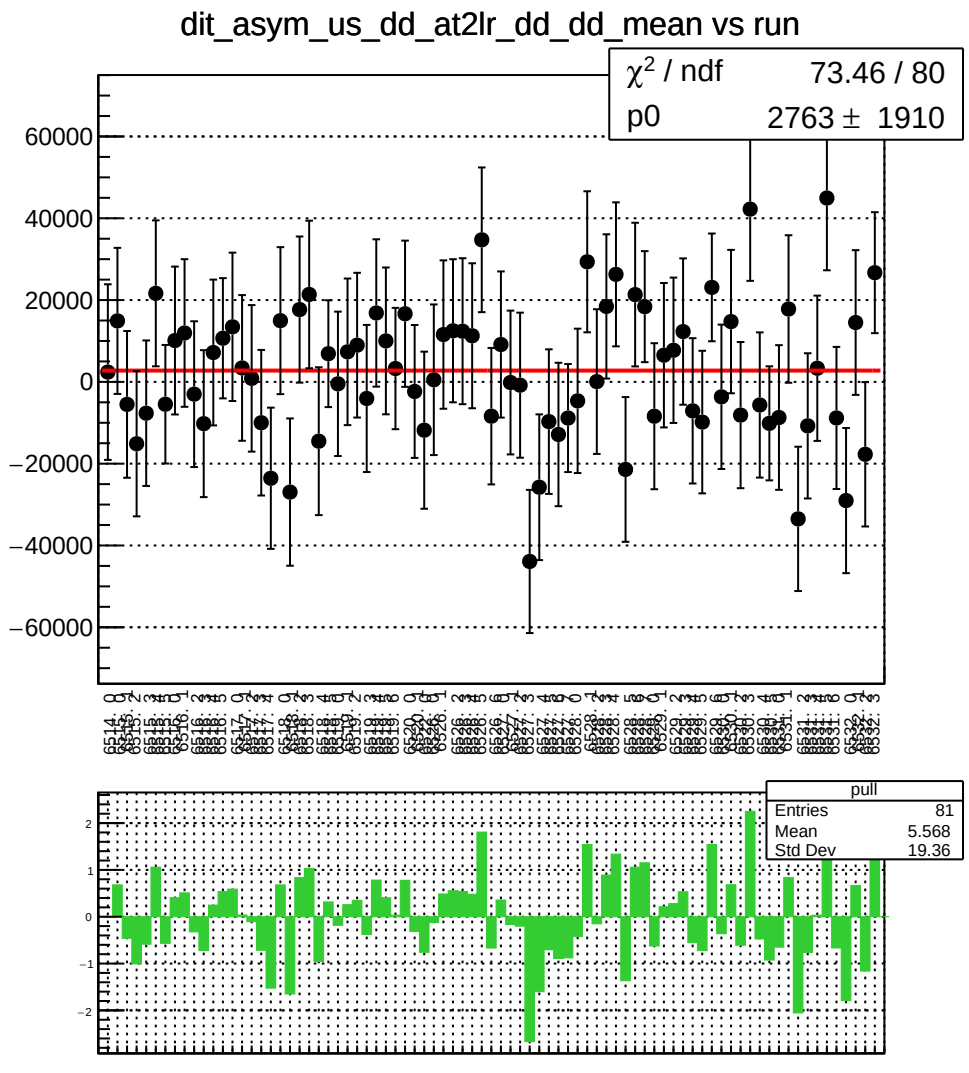

pull1D
Entries 81
Mean −0.008352
Std Dev 0.9505
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

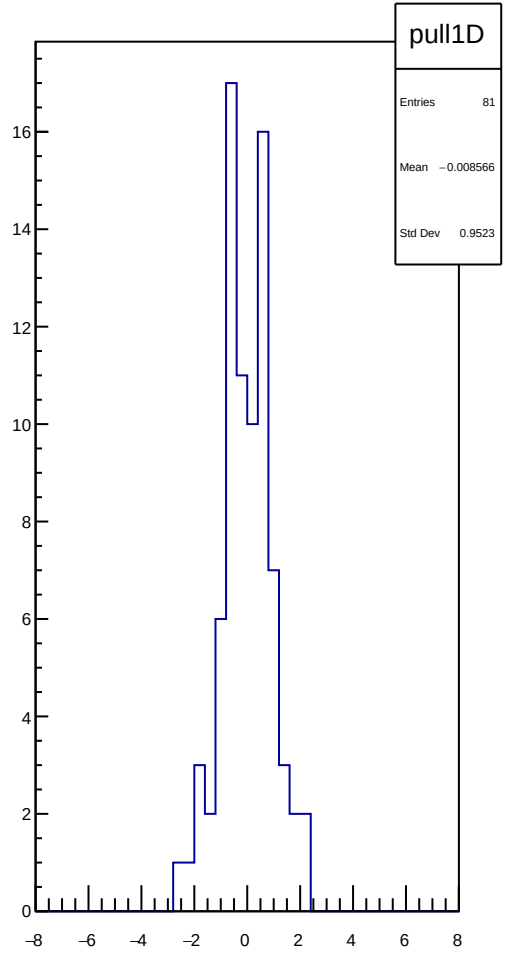

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 167.9 / 80
p0 1687 ± 1.35
1760
1740
1720
1700
1680
1660
1640
1620

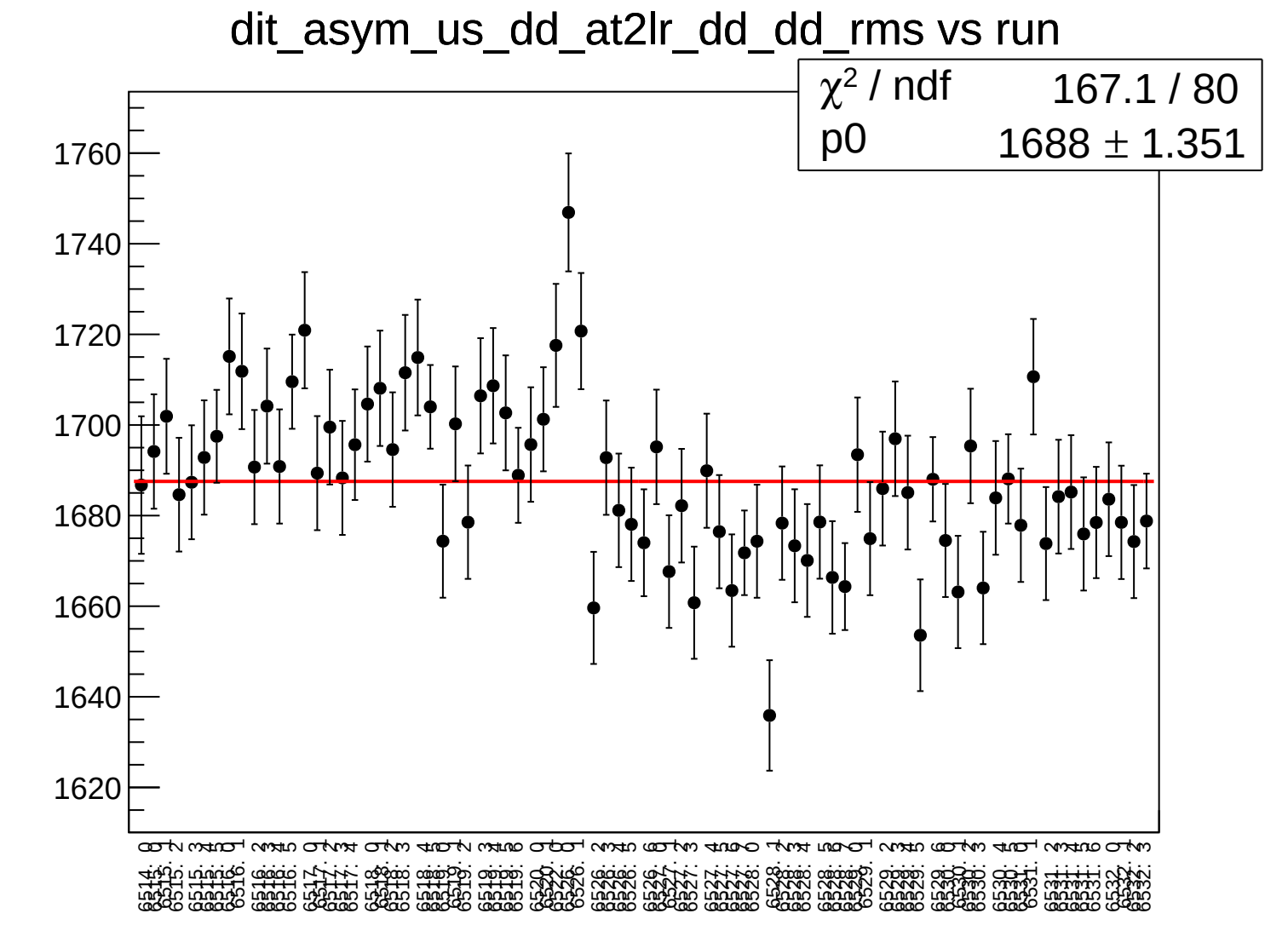

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 83.72 / 80
p0 −486 ± 556.2
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 81
Mean −257.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

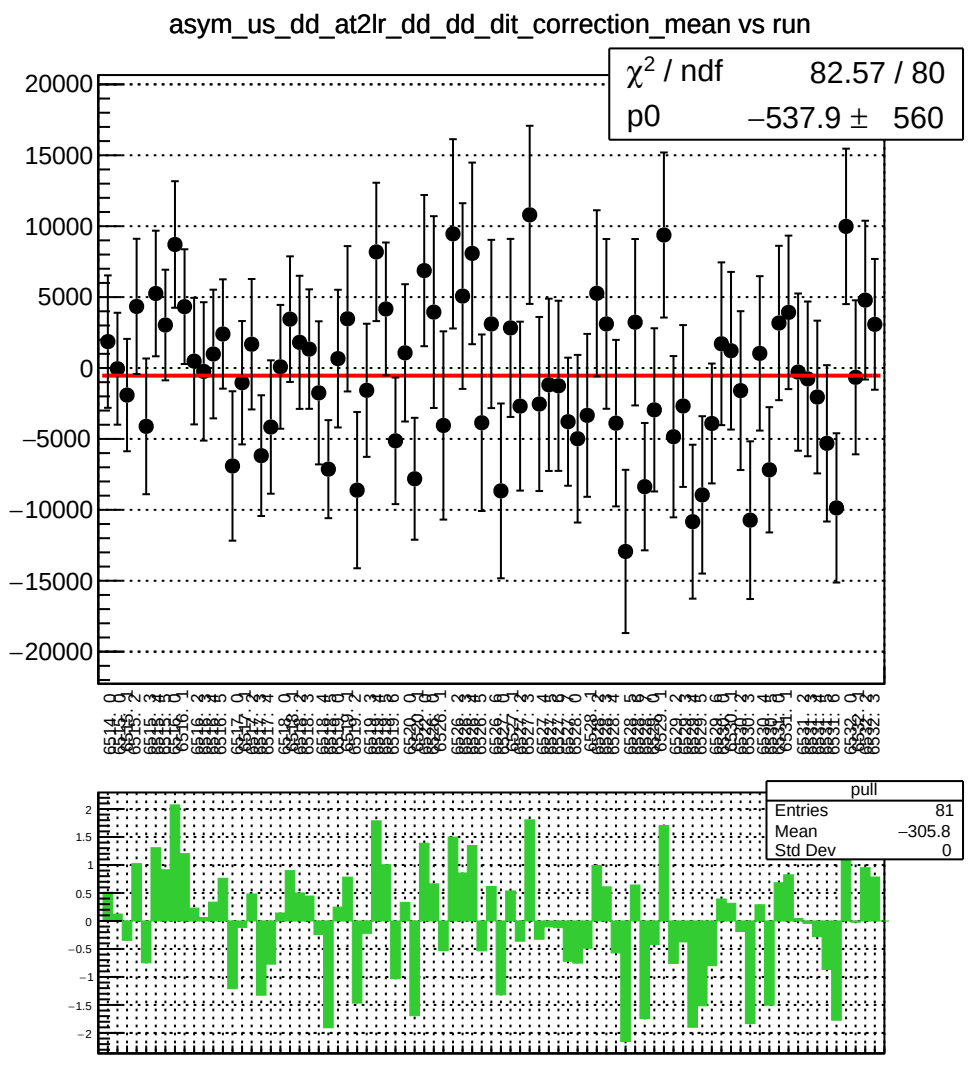

pull1D
Entries 81
Mean 0.01176
Std Dev 1.017
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

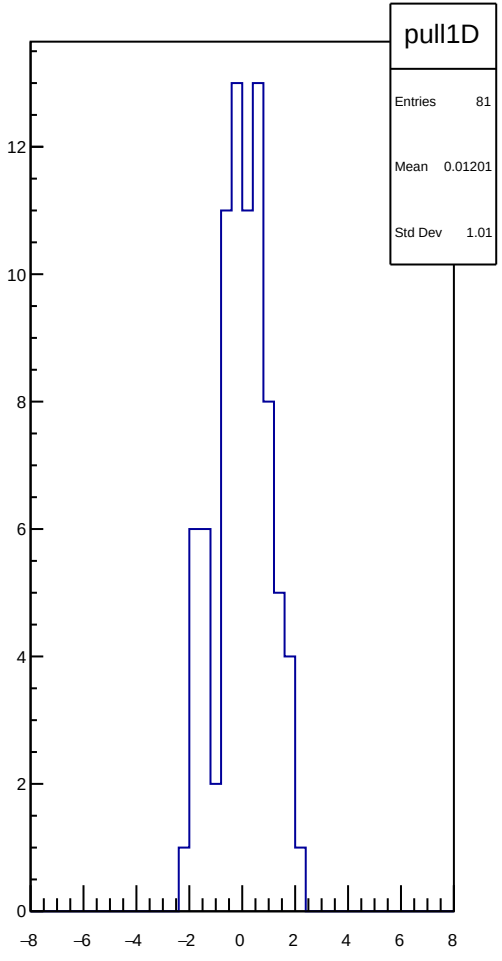

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.732e+04 / 80
p0 487 ± 0.3933
650
600
550
500
450
400
350

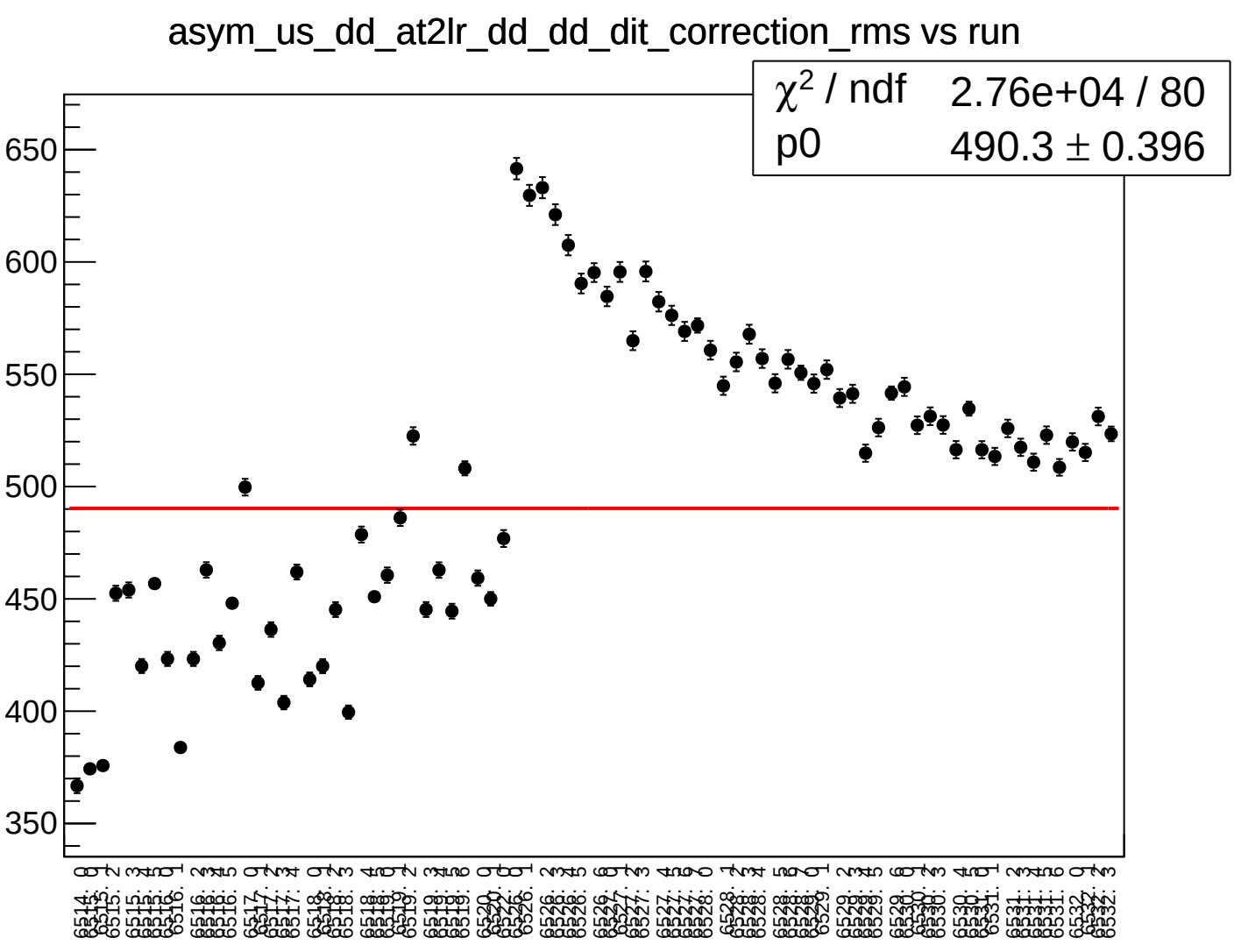

dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 73.46 / 80
p0 2763 ± 1910
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean 5.568
Std Dev 19.36
2
1
0
−1
−2

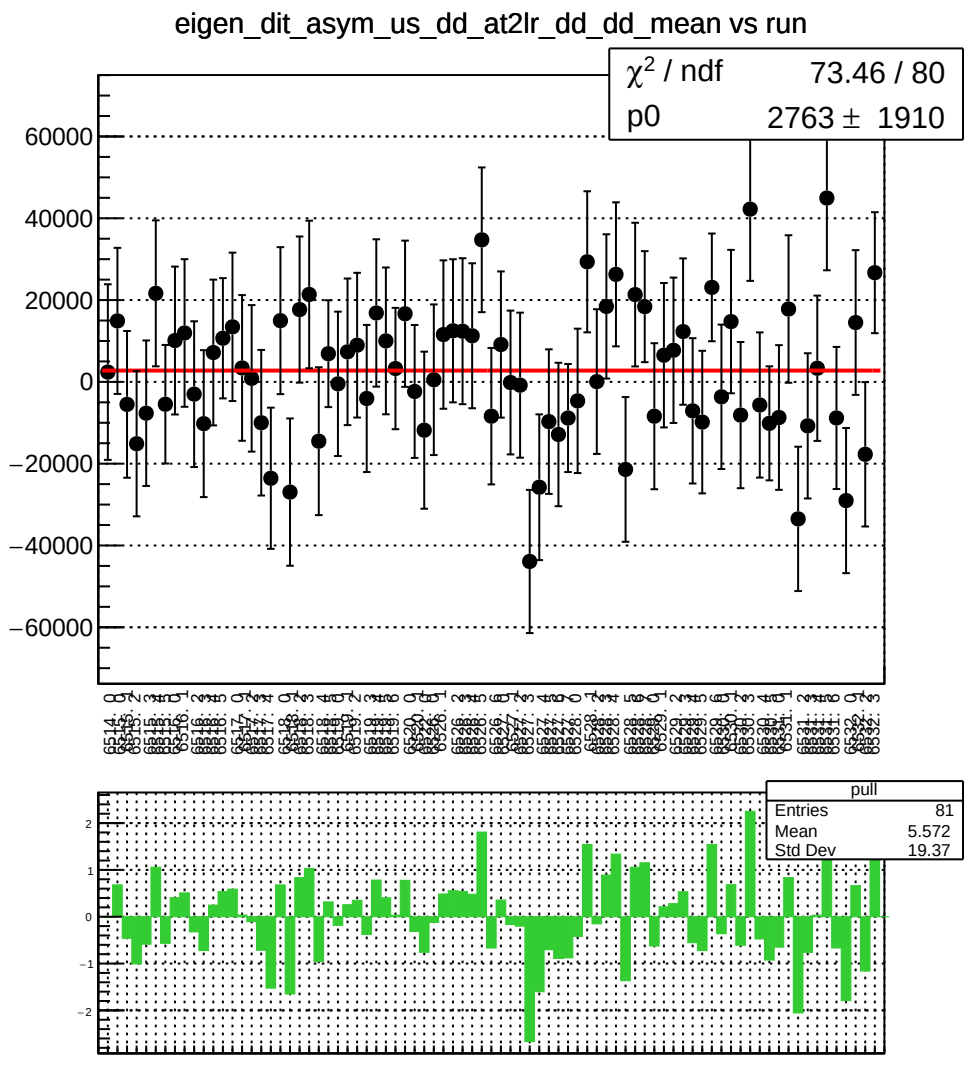

pull1D
Entries 81
Mean −0.008566
Std Dev 0.9523
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

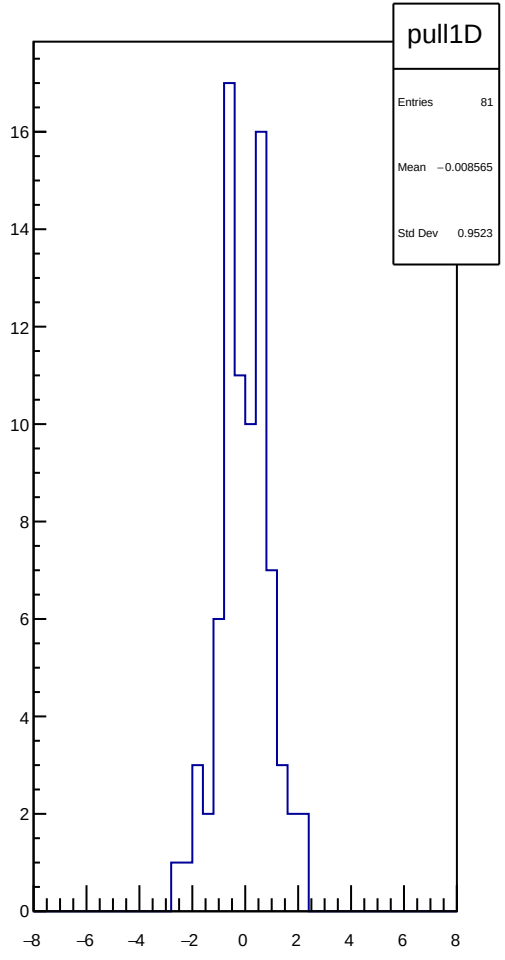

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 167.1 / 80
p0 1688 ± 1.351
1760
1740
1720
1700
1680
1660
1640
1620

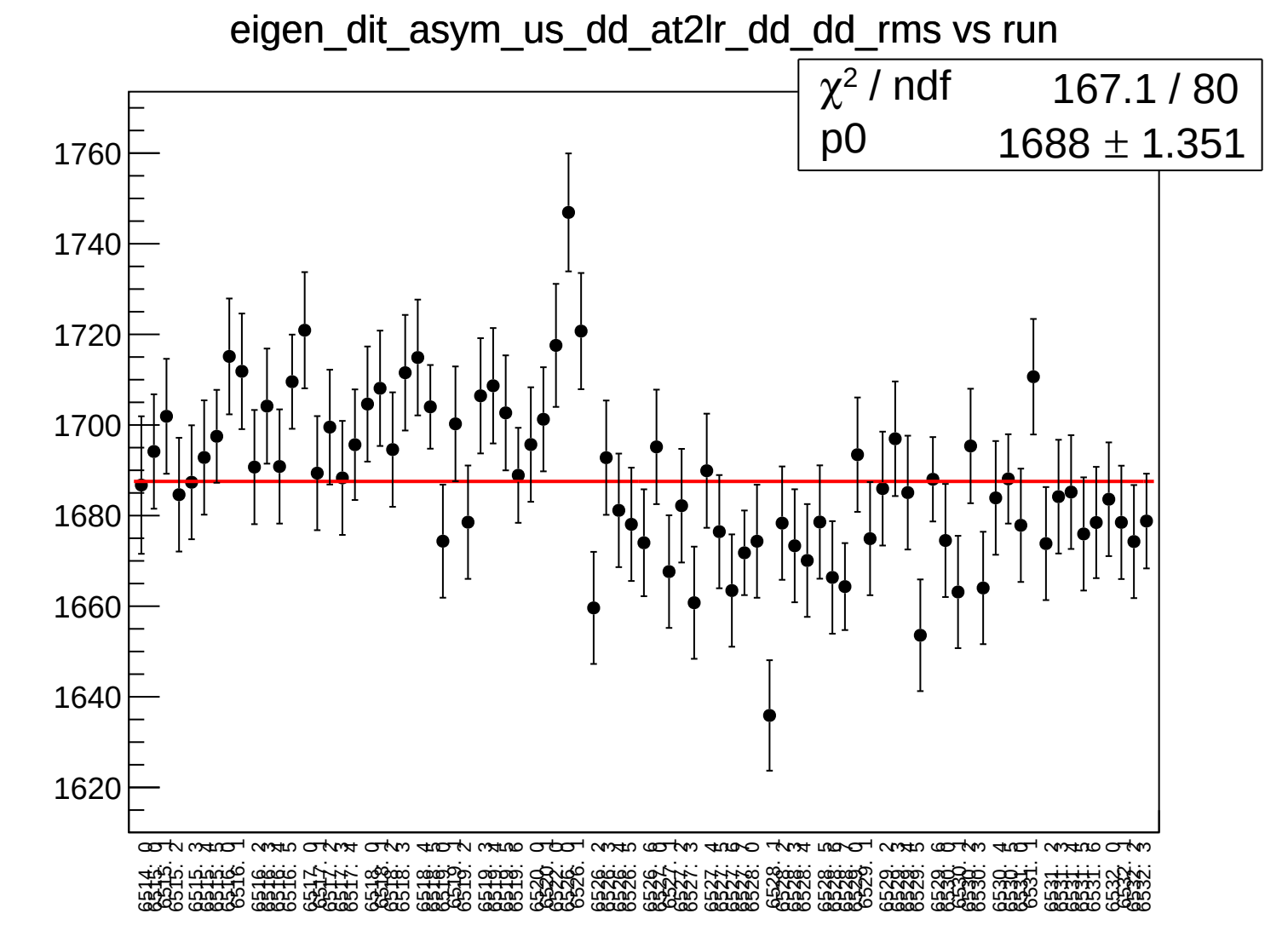

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 82.57 / 80
p0 −537.9 ± 560
pull
Entries 81
Mean −305.8
Std Dev 0

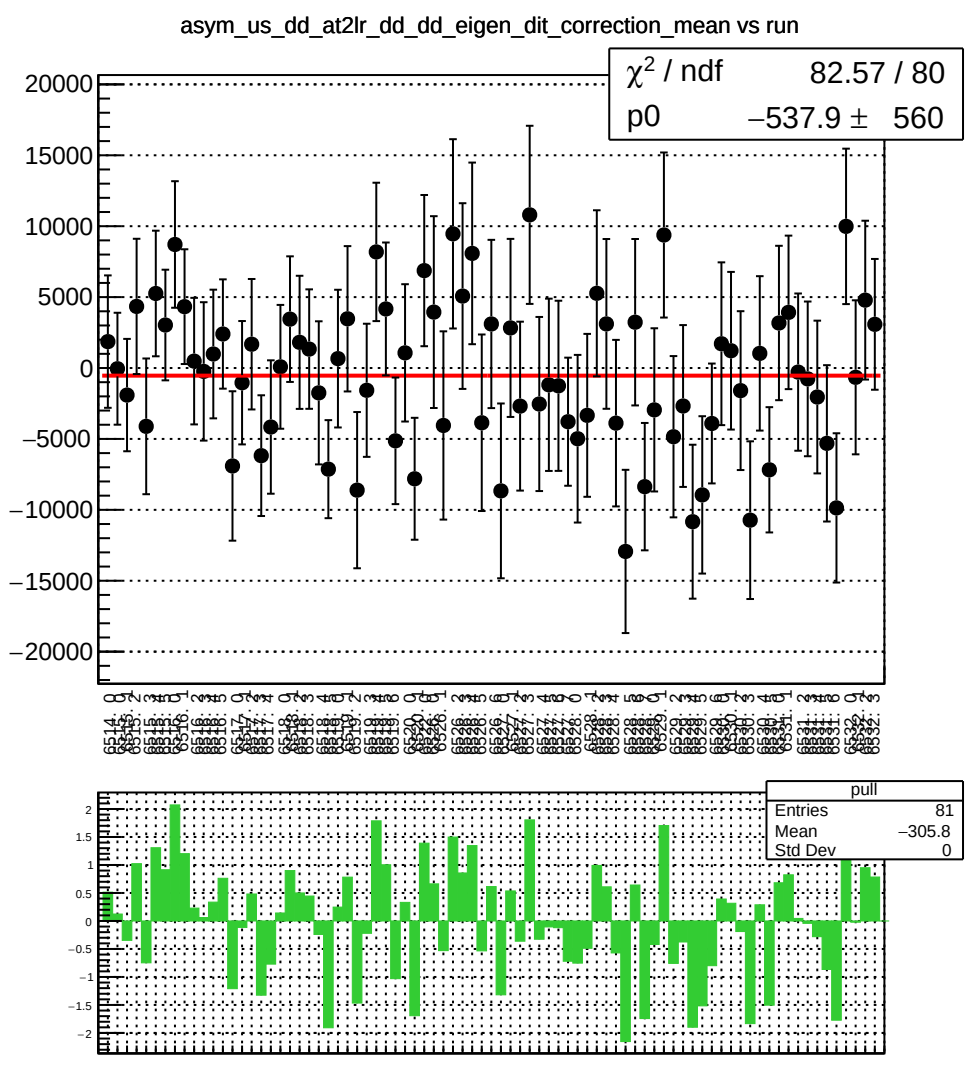

pull1D
Entries 81
Mean 0.01201
Std Dev 1.01

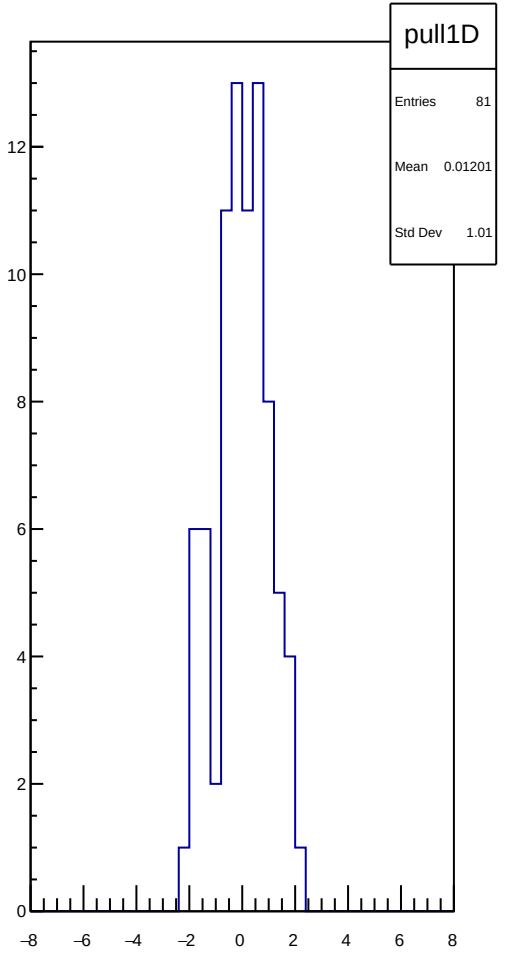

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 2.76e+04 / 80
p0 490.3 ± 0.396
650
600
550
500
450
400
350

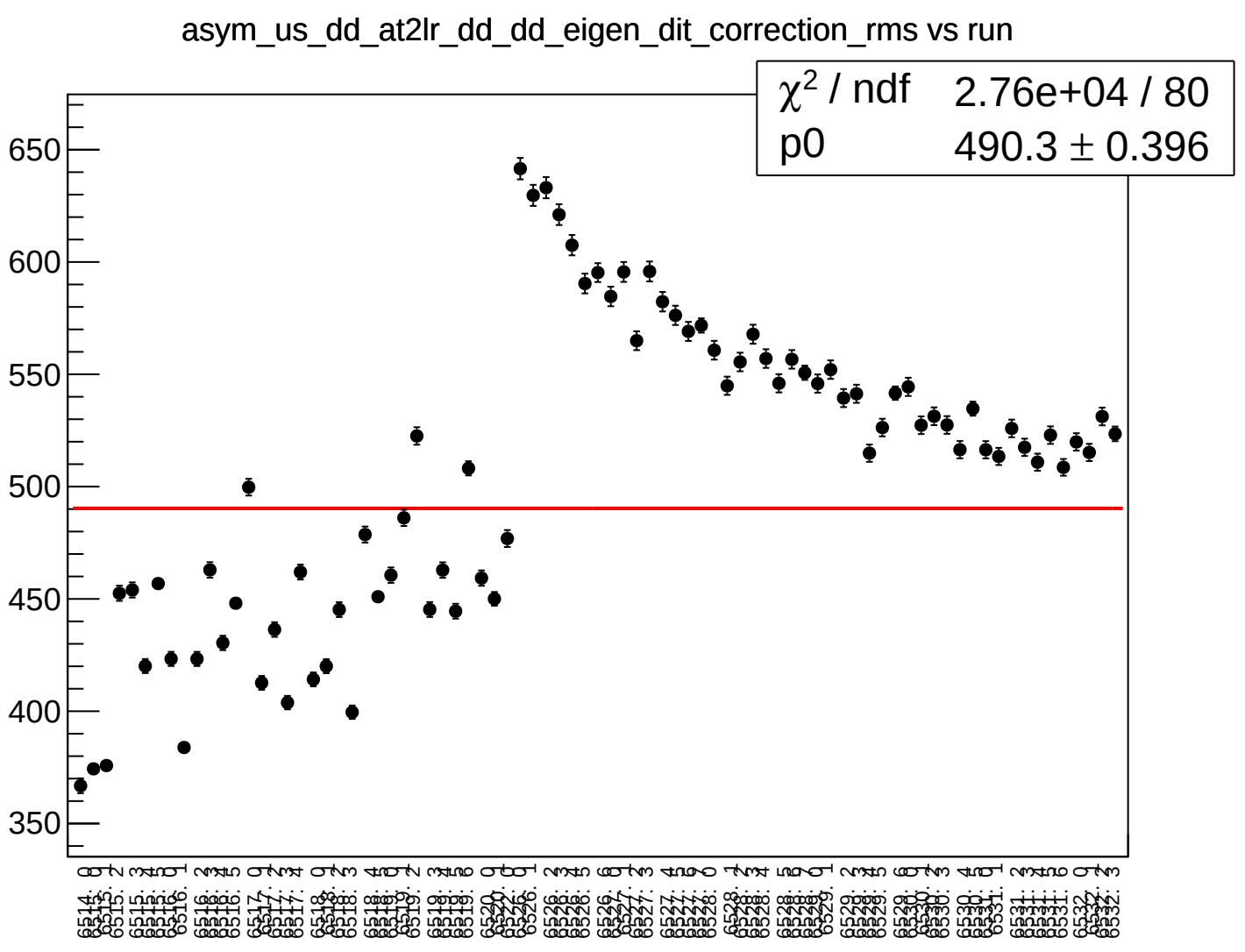

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 73.46 / 80
p0 2763 ± 1910
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean 5.572
Std Dev 19.37
2
1
0
−1
−2

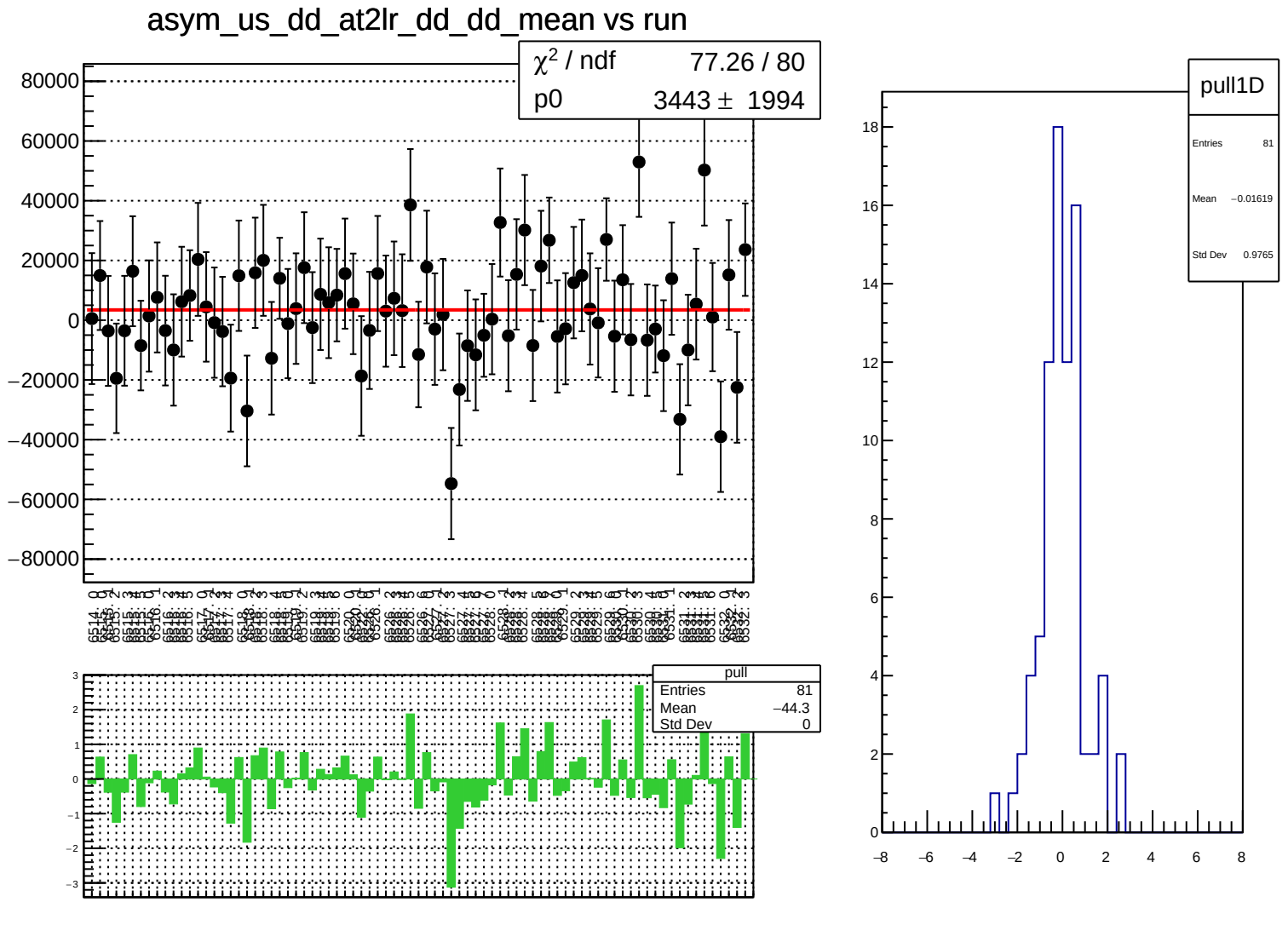

pull1D
Entries 81
Mean −0.008565
Std Dev 0.9523
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

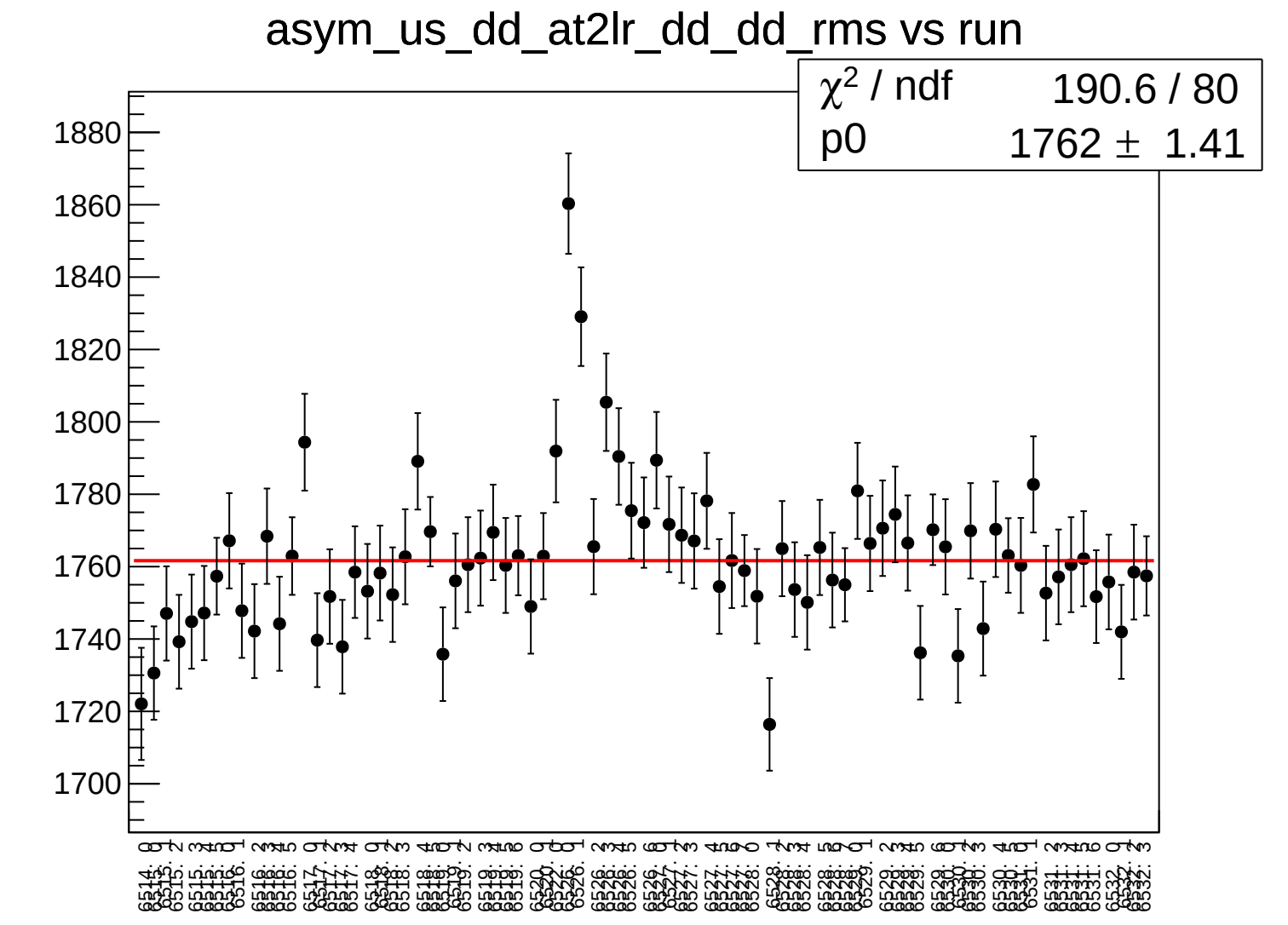

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 167.1 / 80
p0 1688 ± 1.351
1760
1740
1720
1700
1680
1660
1640
1620

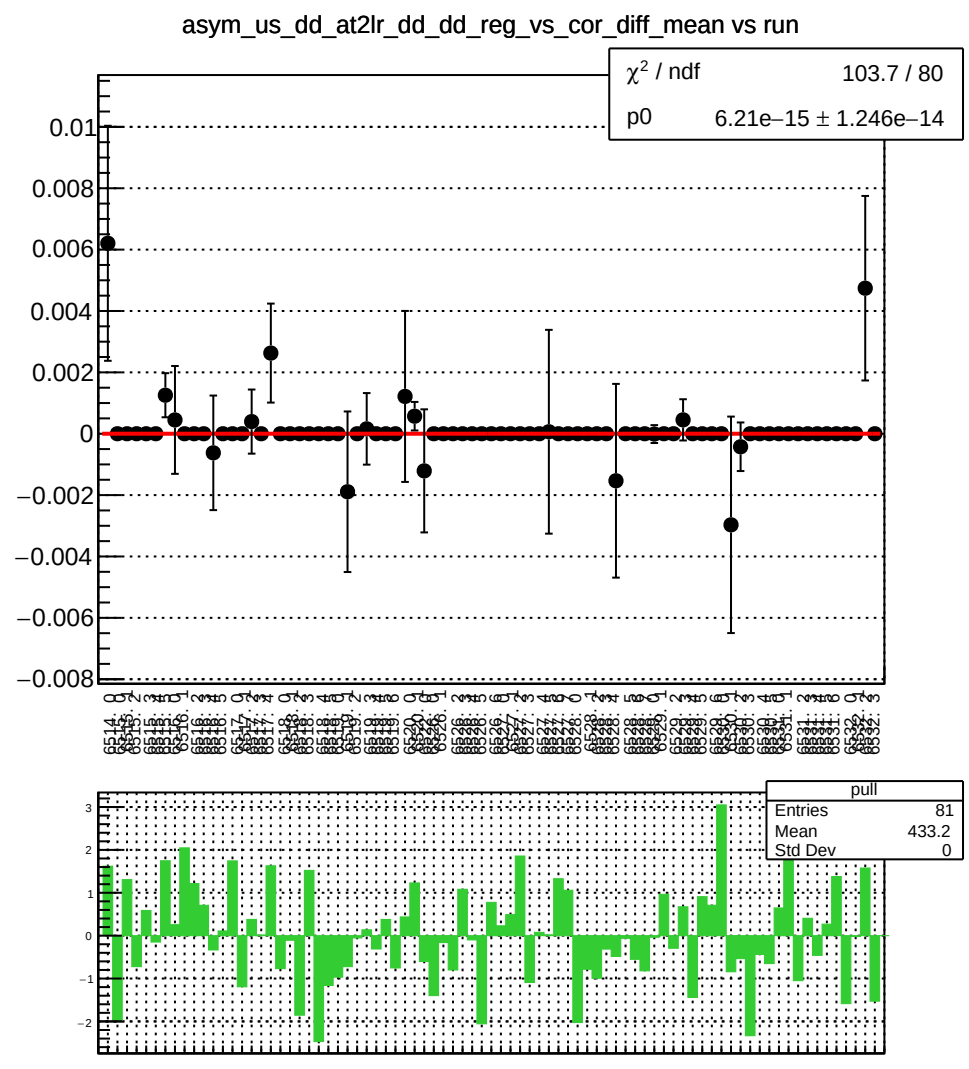

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 82.57 / 80
p0 −537.9 ± 560
pull
Entries 81
Mean −305.8
Std Dev 0

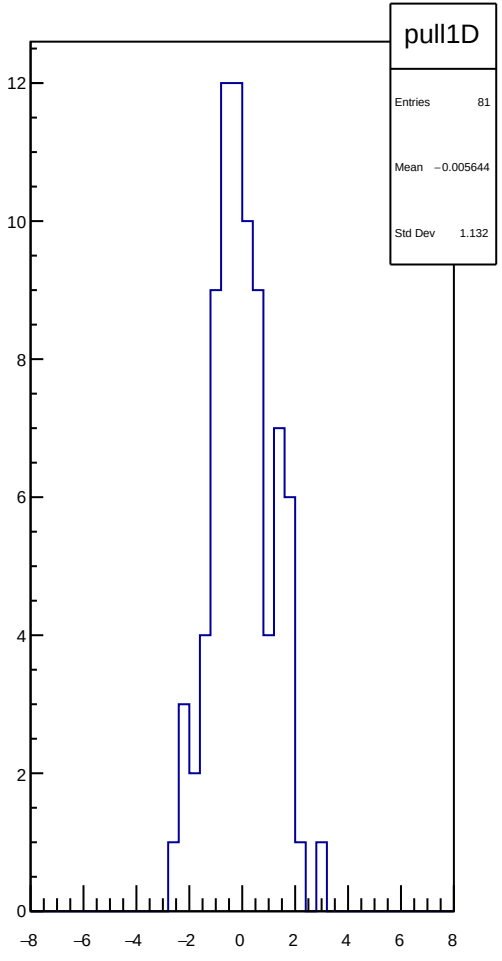

pull1D
Entries 81
Mean 0.01201
Std Dev 1.01

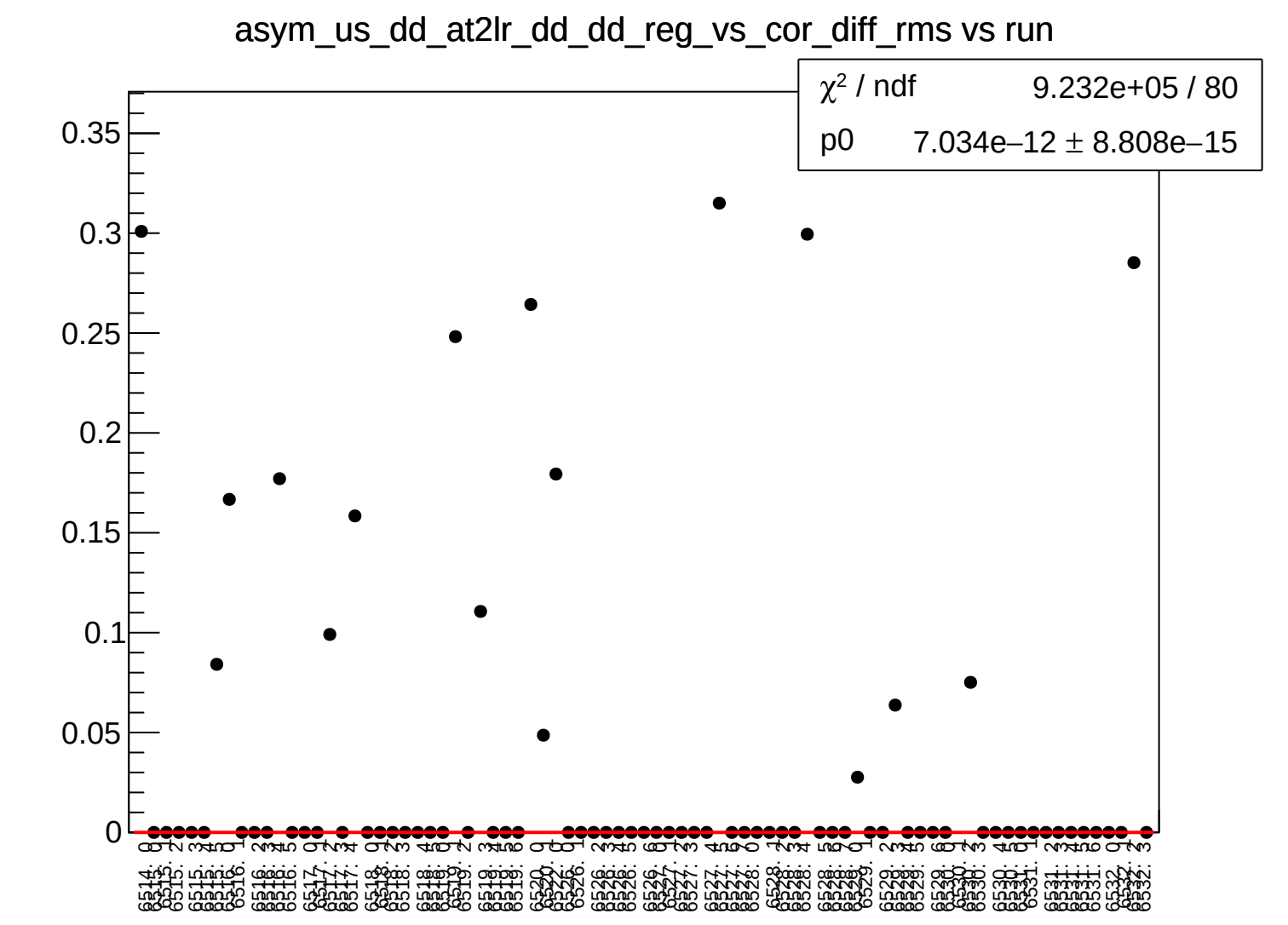

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.76e+04 / 80
p0 490.3 ± 0.396
650
600
550
500
450
400
350

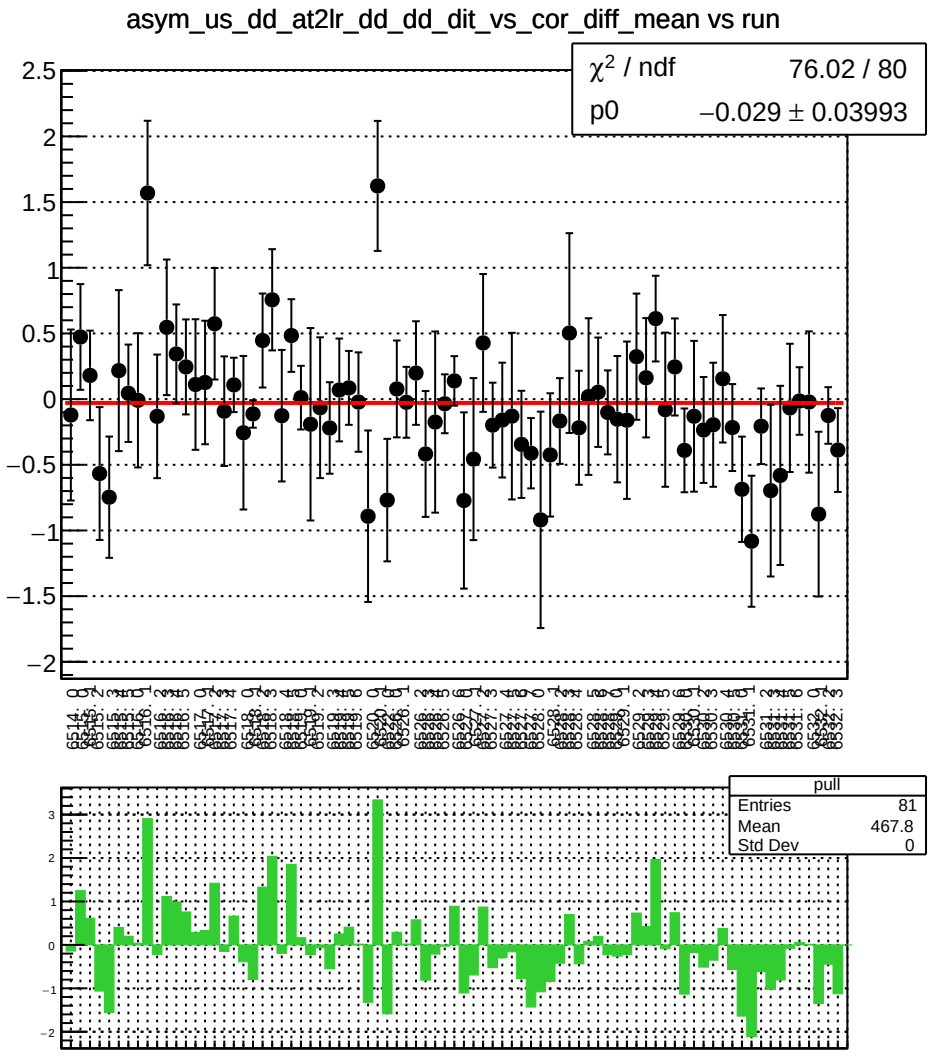

asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 77.26 / 80
p0 3443 ± 1994
pull
Entries 81
Mean −44.3
Std Dev 0
pull1D
Entries 81
Mean −0.01619
Std Dev 0.9765

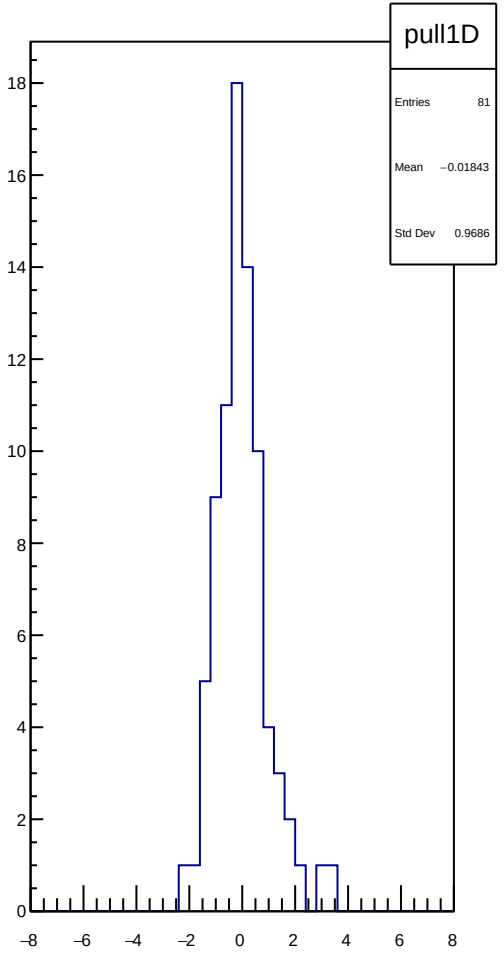

asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 190.6 / 80
p0 1762 ± 1.41
1880
1860
1840
1820
1800
1780
1760
1740
1720
1700

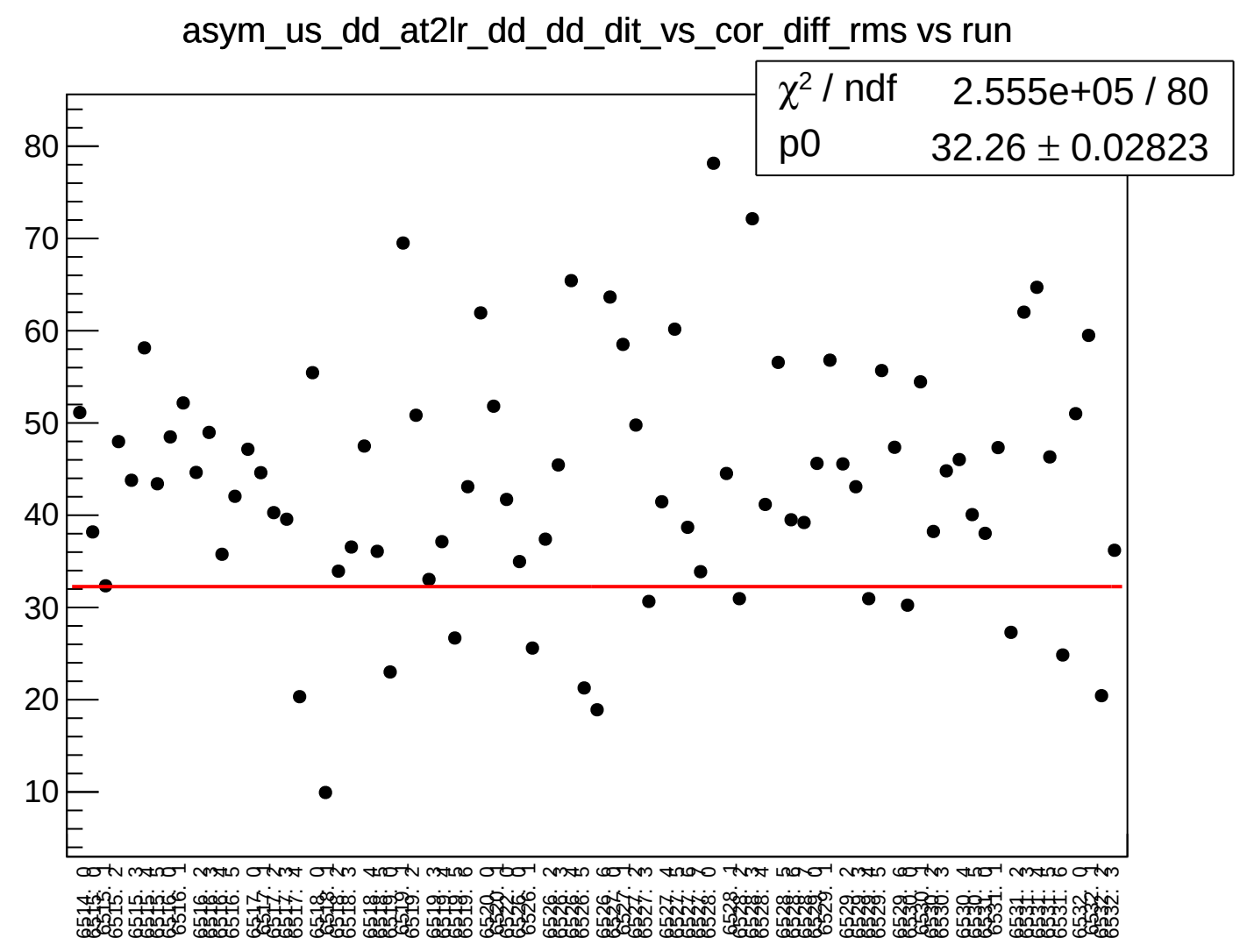

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 103.7 / 80
p0 6.21e−15 ± 1.246e−14
pull
Entries 81
Mean 433.2
Std Dev 0

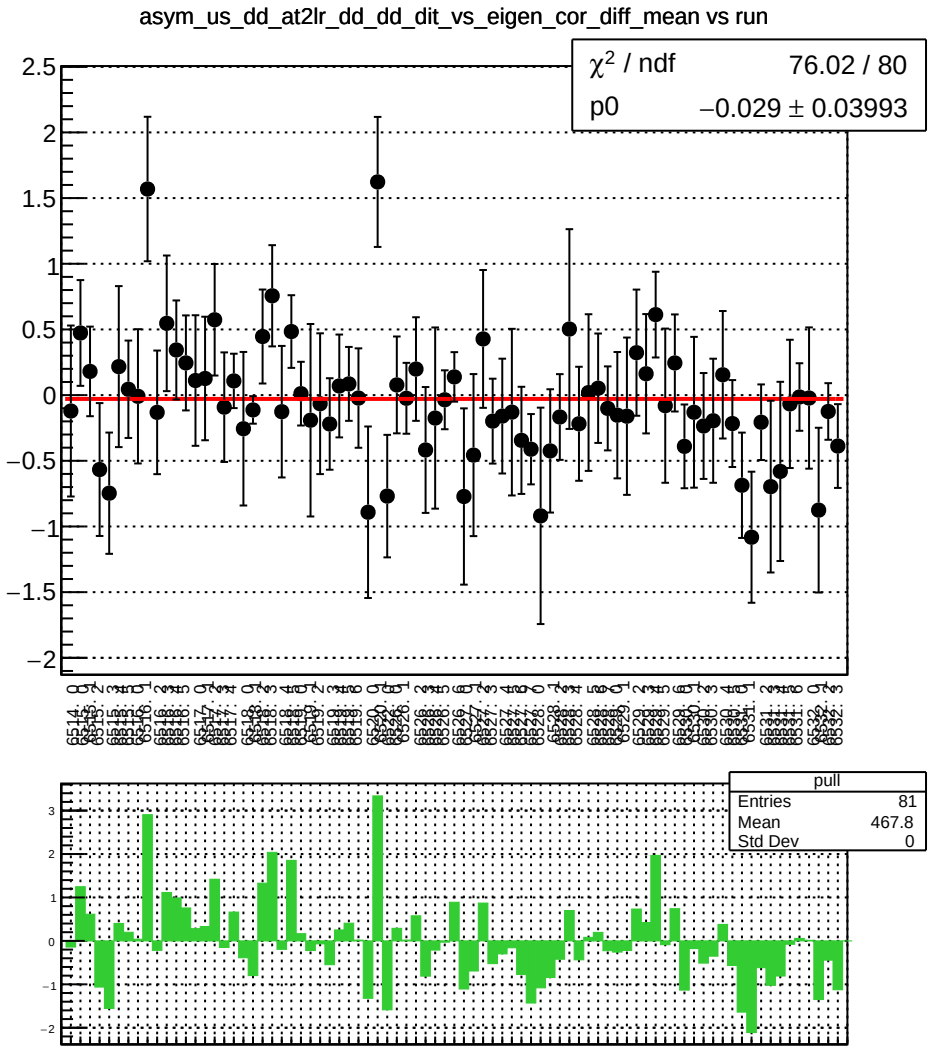

pull1D
Entries 81
Mean −0.005644
Std Dev 1.132

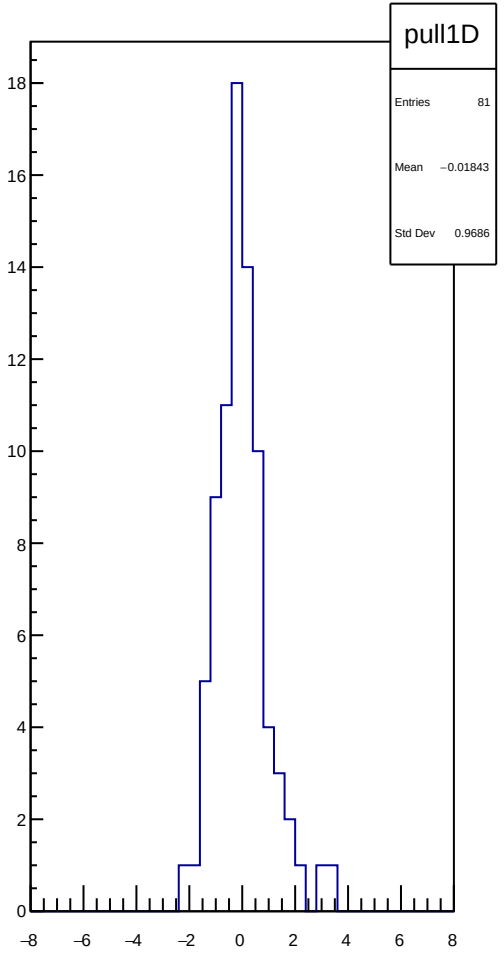

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.232e+05 / 80
p0 7.034e−12 ± 8.808e−15
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0

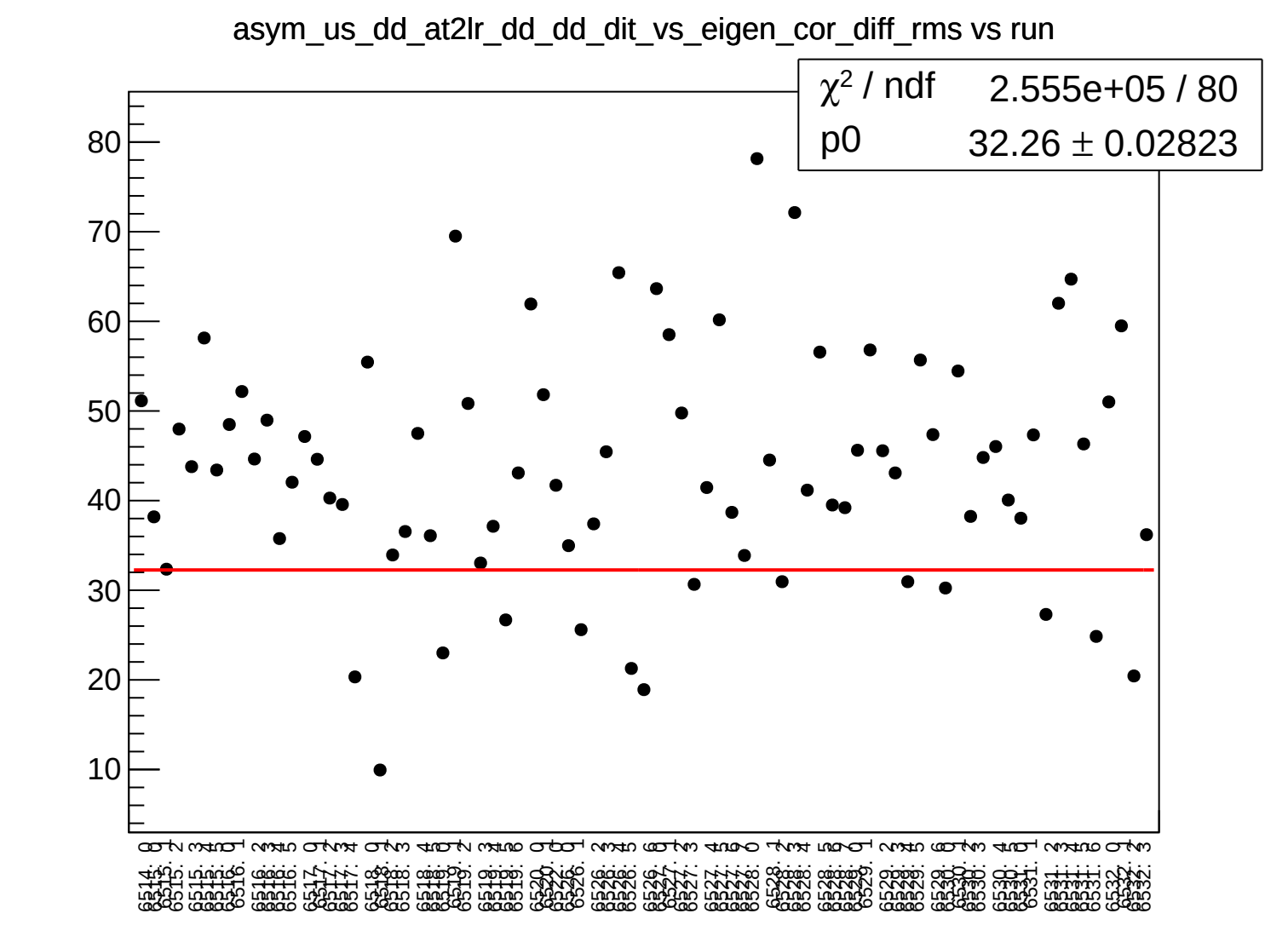

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 76.02 / 80
p0 −0.029 ± 0.03993
pull
Entries 81
Mean 467.8
Std Dev 0

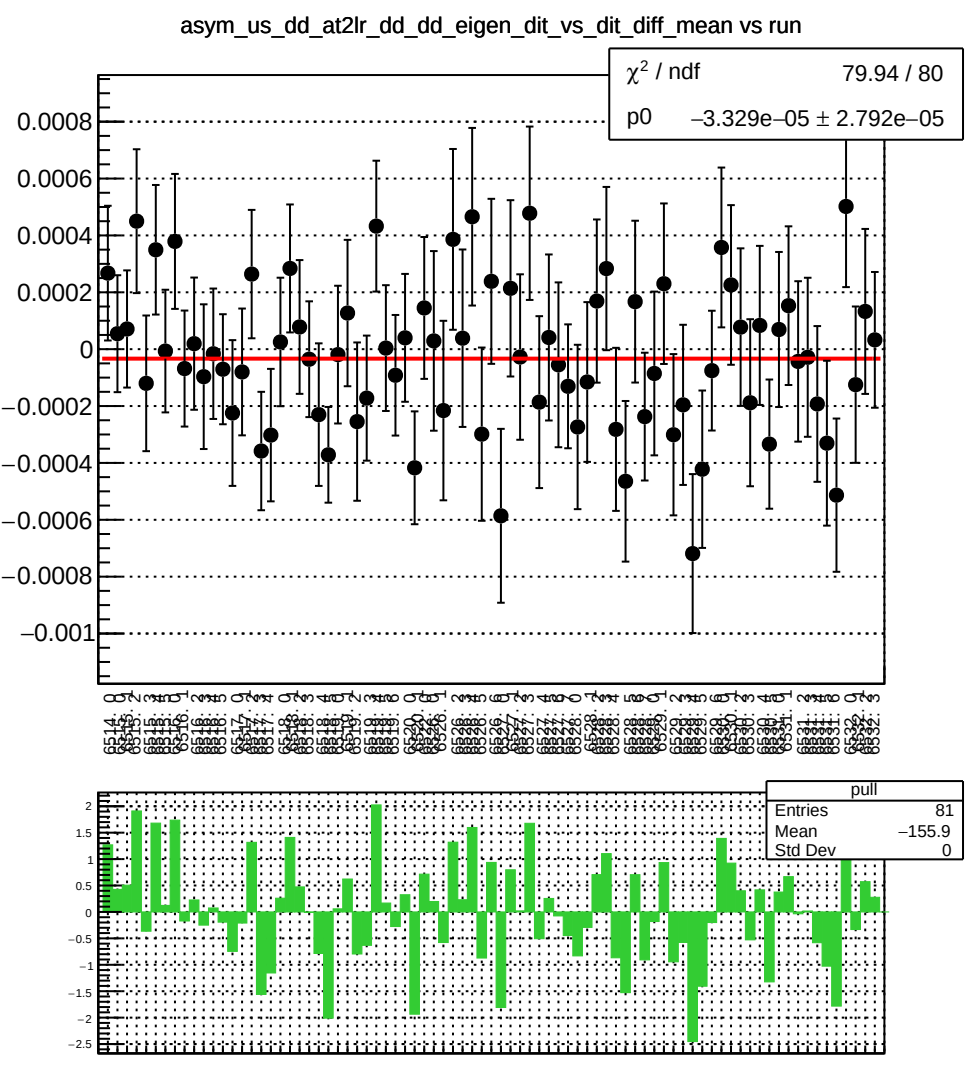

pull1D
Entries 81
Mean −0.01843
Std Dev 0.9686

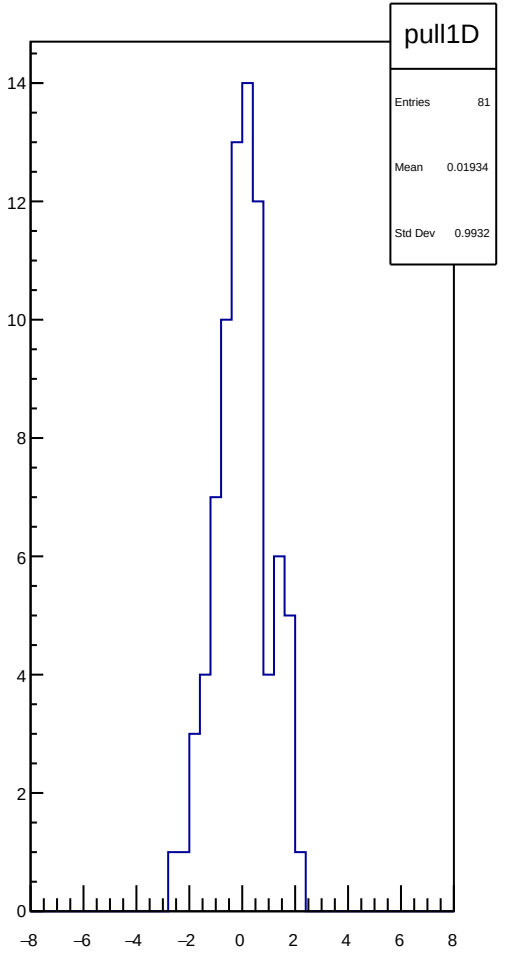

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.555e+05 / 80
p0 32.26 ± 0.02823
80
70
60
50
40
30
20
10

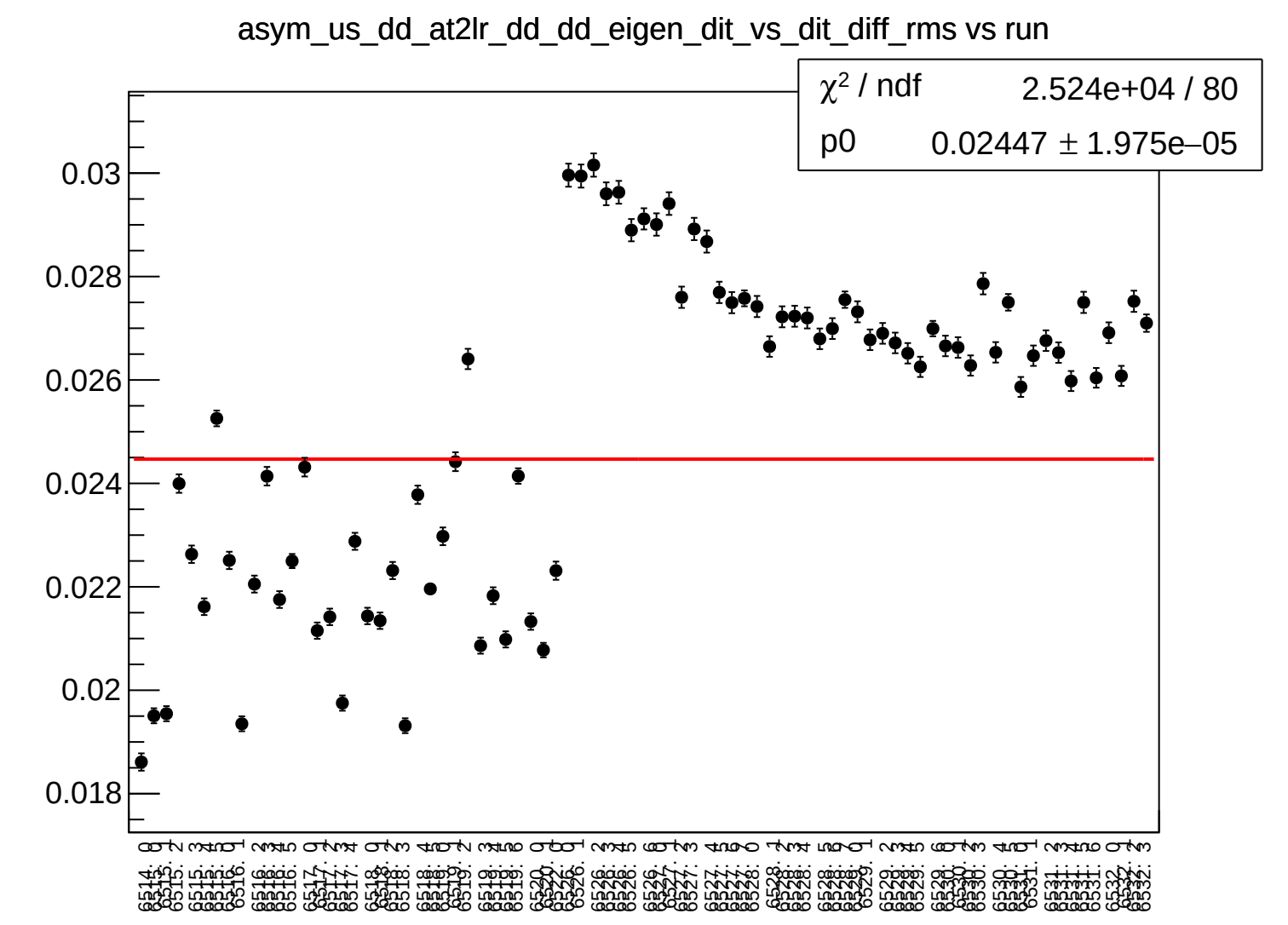

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.02 / 80
p0 −0.029 ± 0.03993
pull
Entries 81
Mean 467.8
Std Dev 0

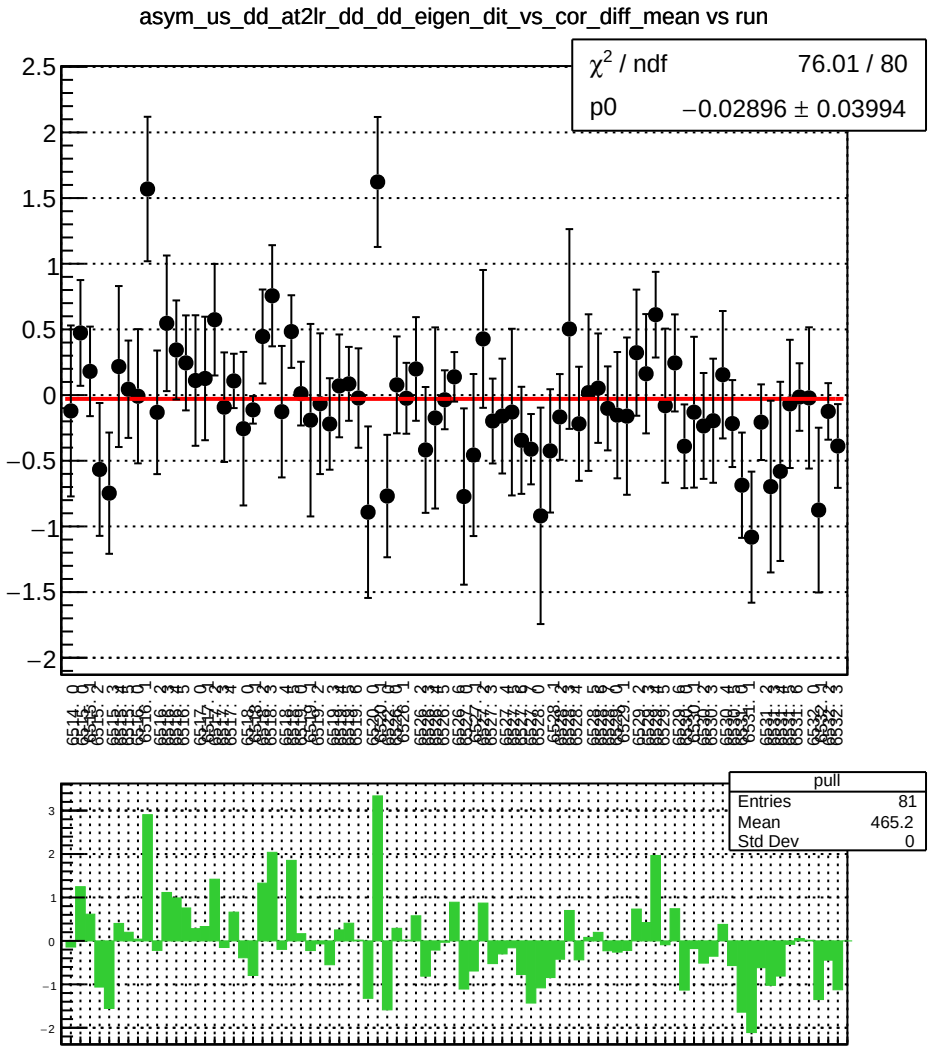

pull1D
Entries 81
Mean −0.01843
Std Dev 0.9686

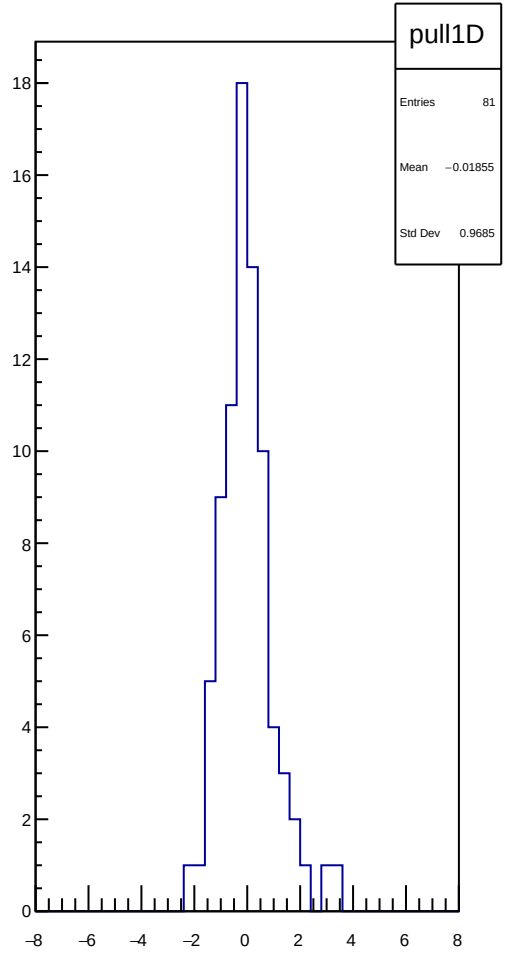

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.555e+05 / 80
p0 32.26 ± 0.02823
80
70
60
50
40
30
20
10

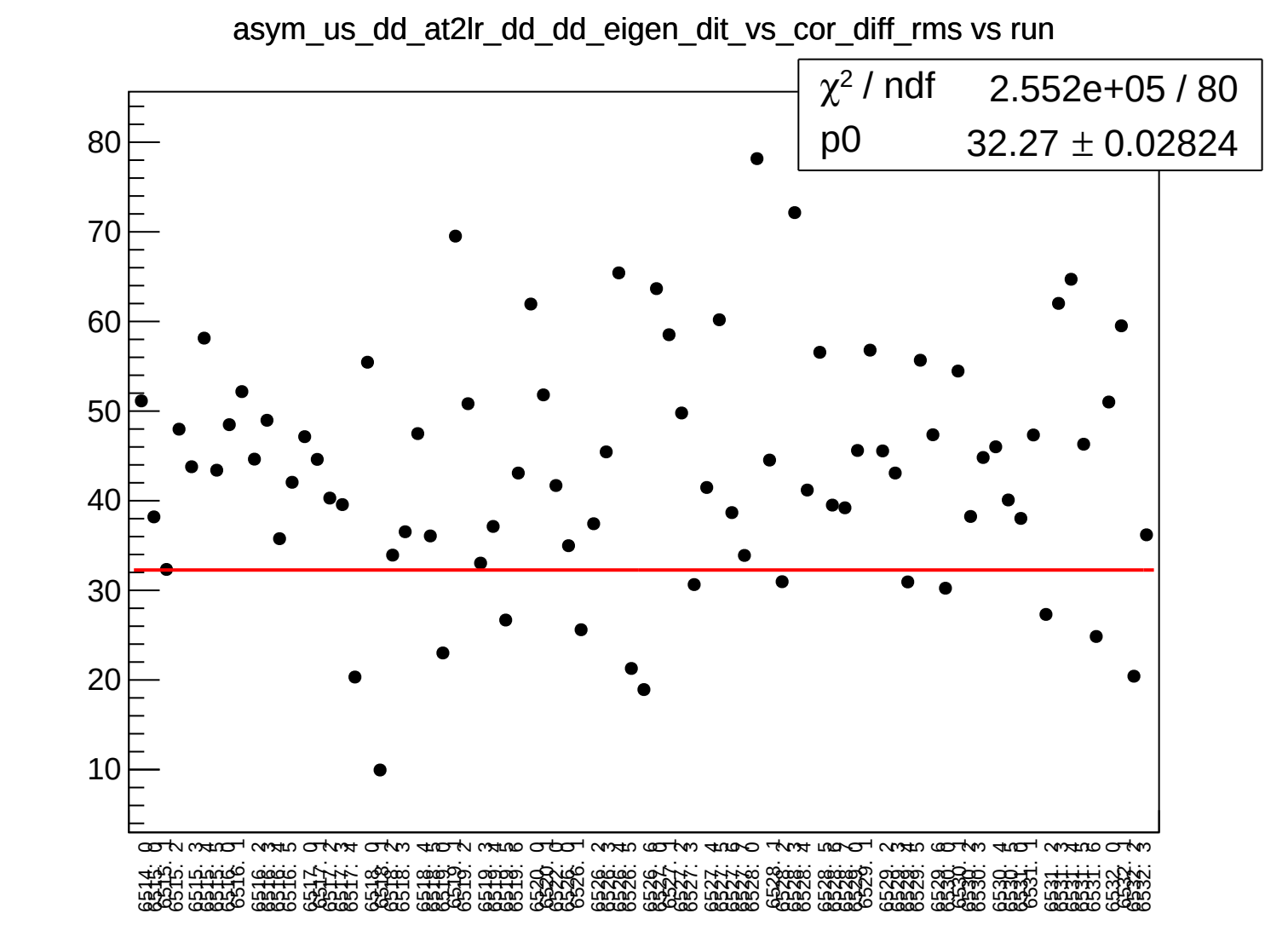

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 79.94 / 80
p0 −3.329e−05 ± 2.792e−05
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 81
Mean −155.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

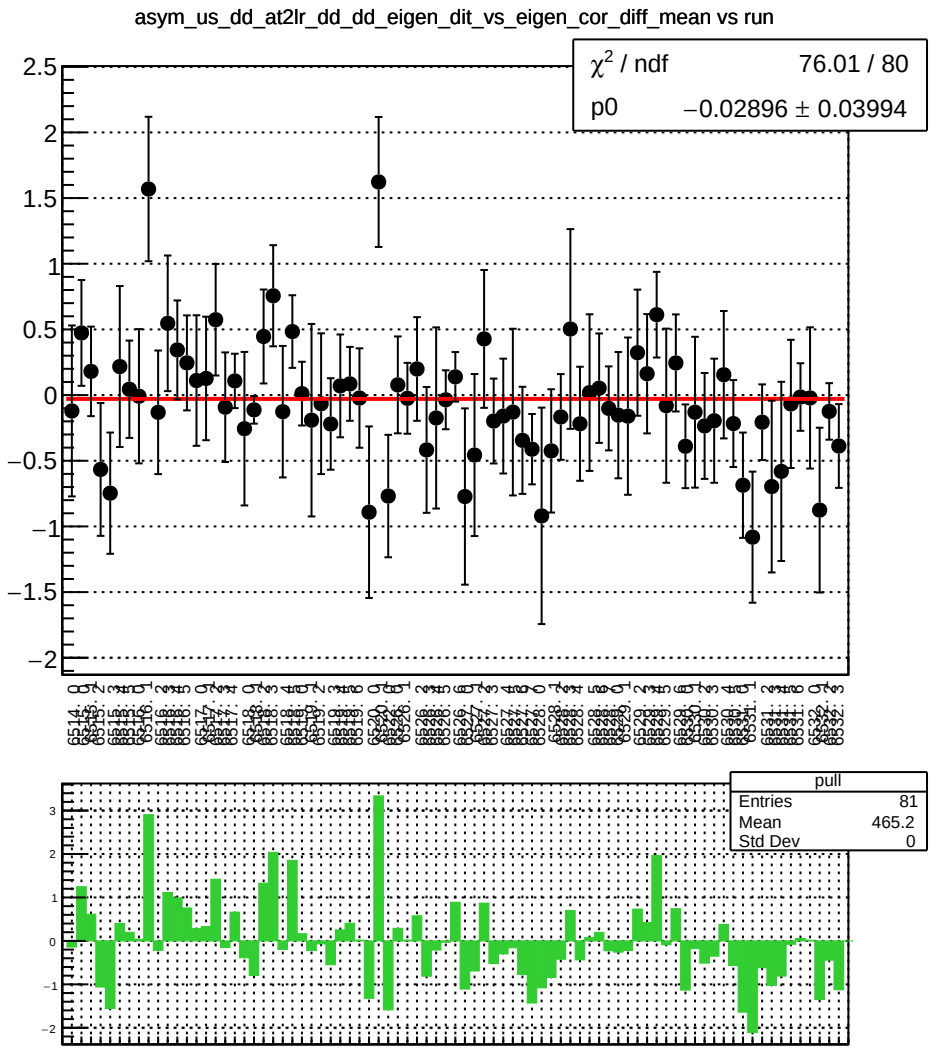

pull1D
Entries 81
Mean 0.01934
Std Dev 0.9932
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

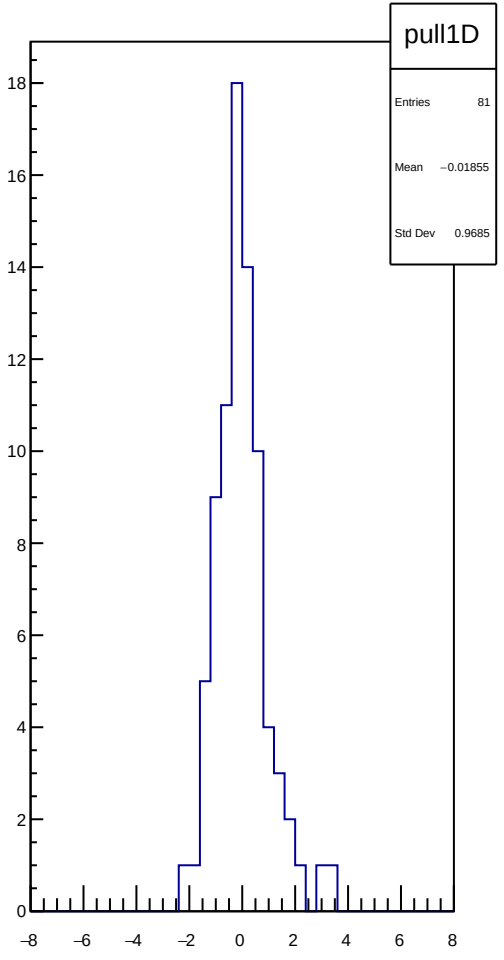

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.524e+04 / 80
p0 0.02447 ± 1.975e−05
0.03
0.028
0.026
0.024
0.022
0.02
0.018

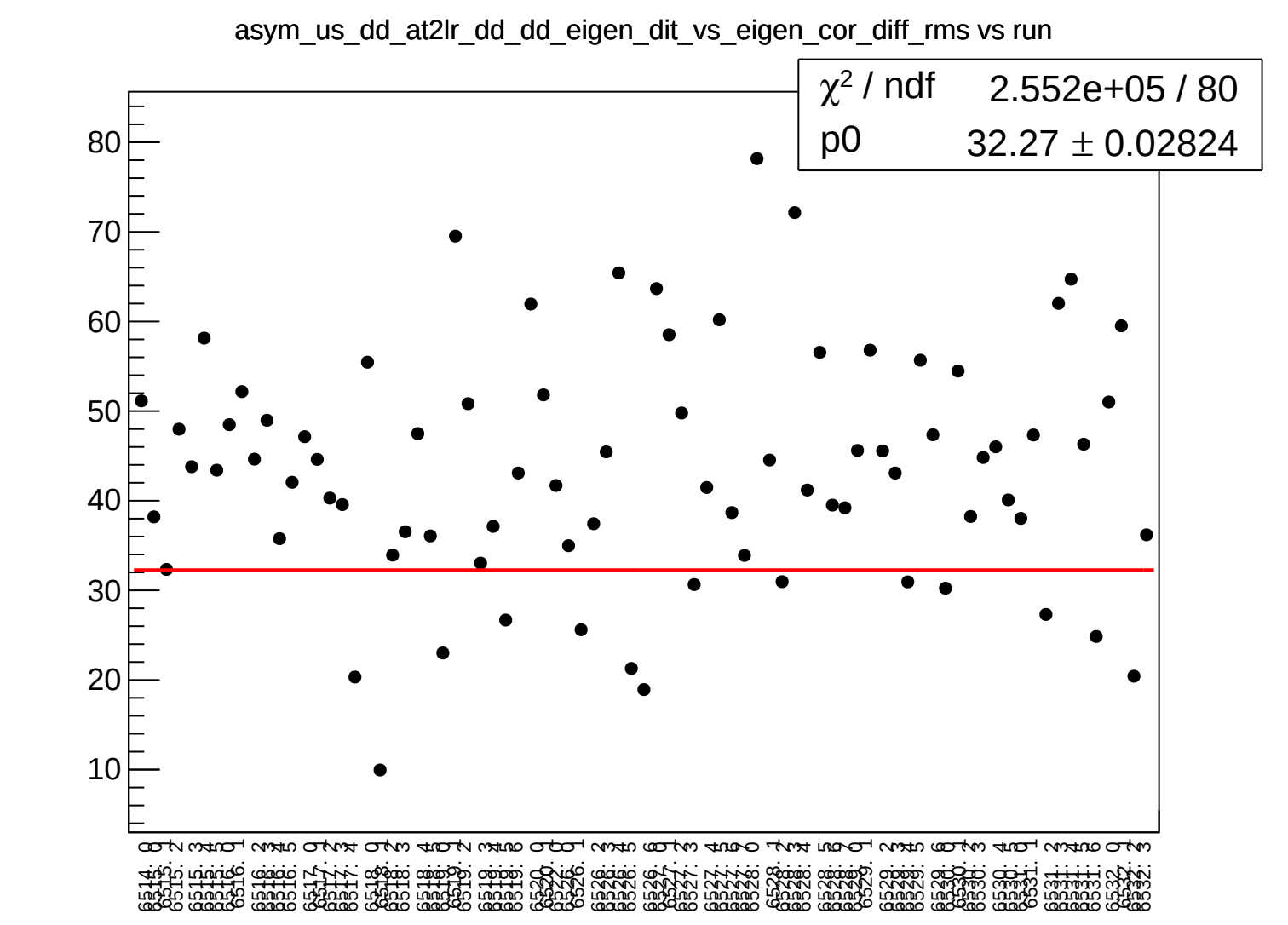

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.01 / 80
p0 −0.02896 ± 0.03994
pull
Entries 81
Mean 465.2
Std Dev 0

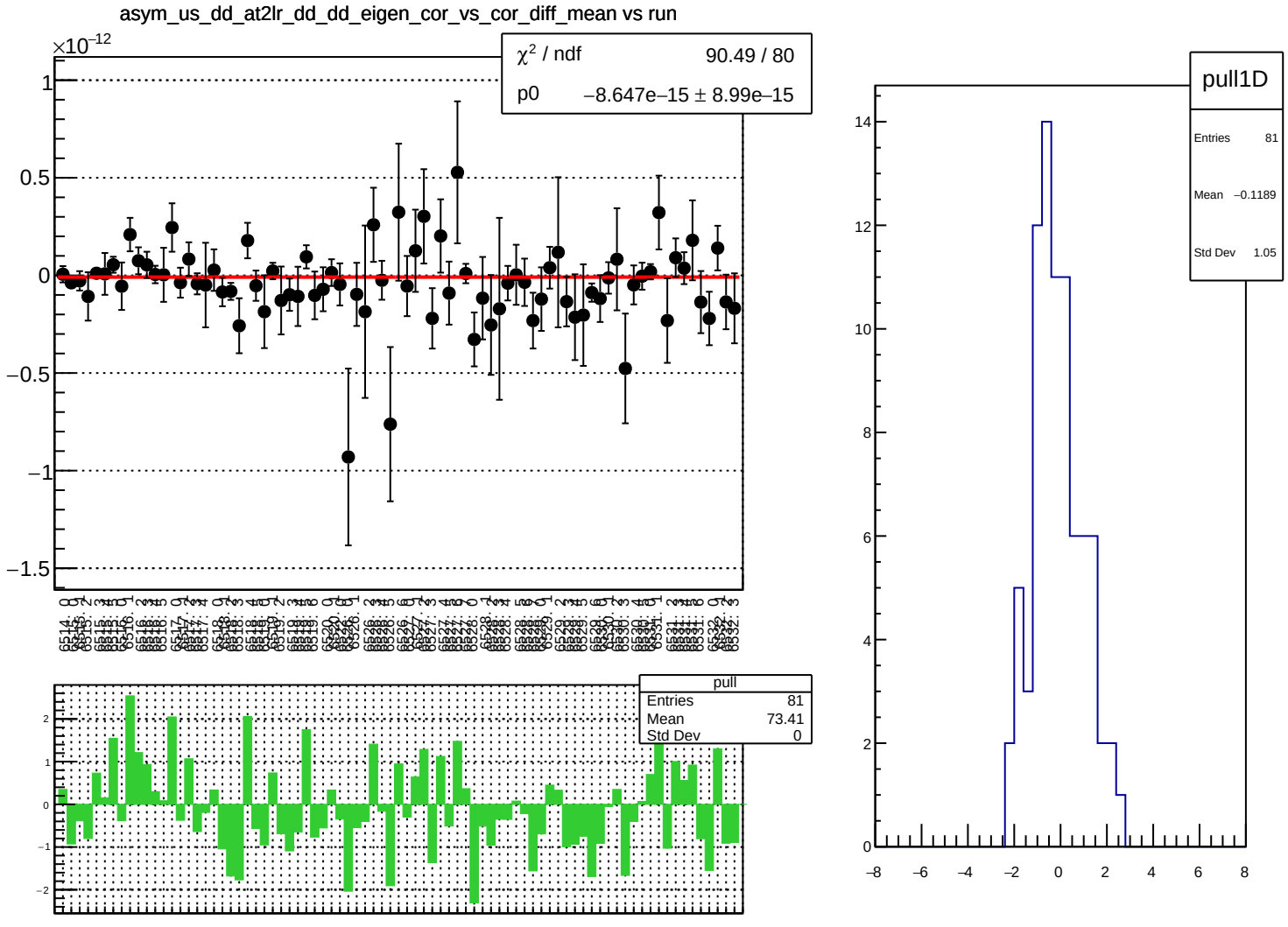

pull1D
Entries 81
Mean −0.01855
Std Dev 0.9685

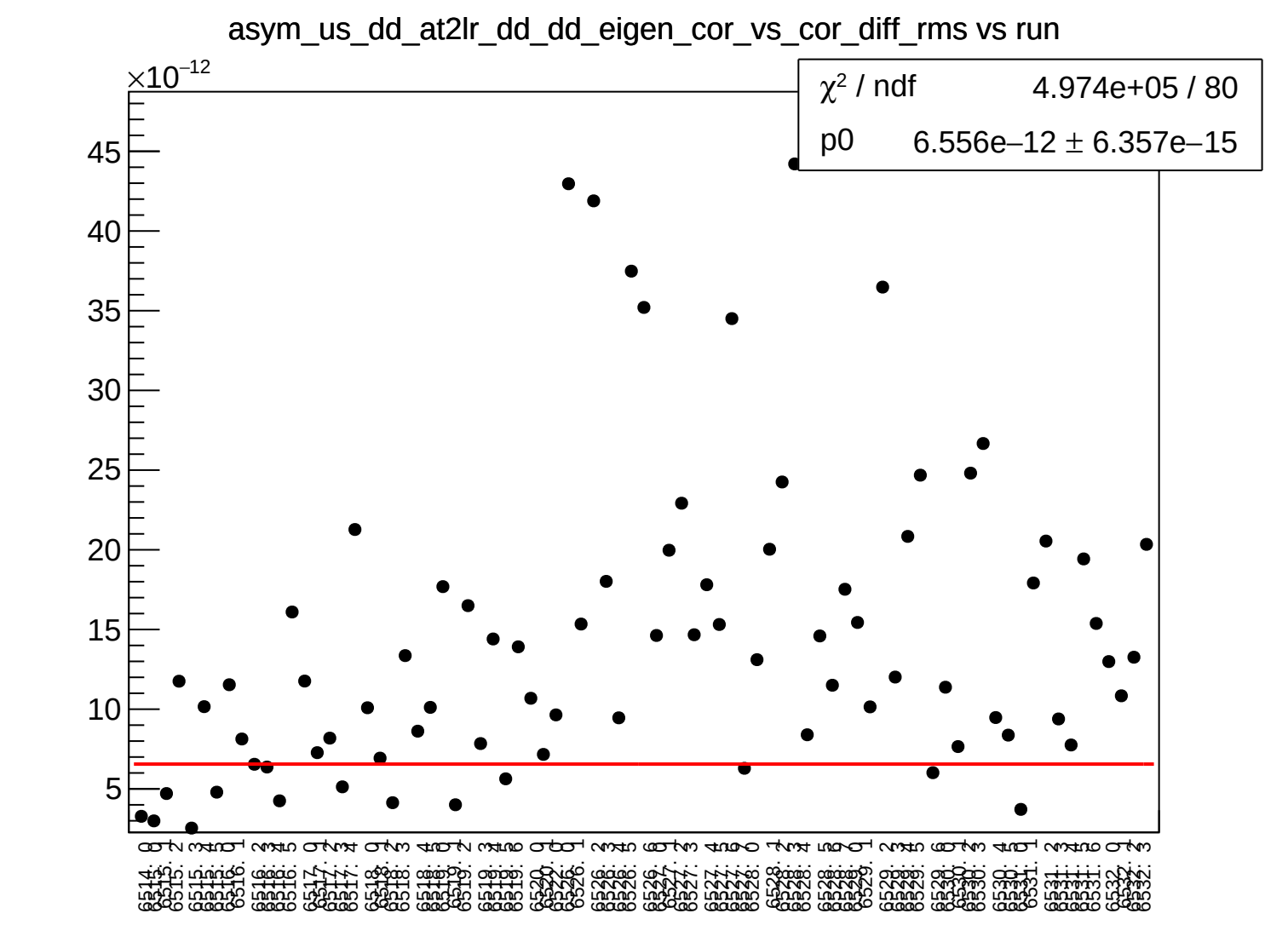

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.552e+05 / 80
p0 32.27 ± 0.02824
80
70
60
50
40
30
20
10

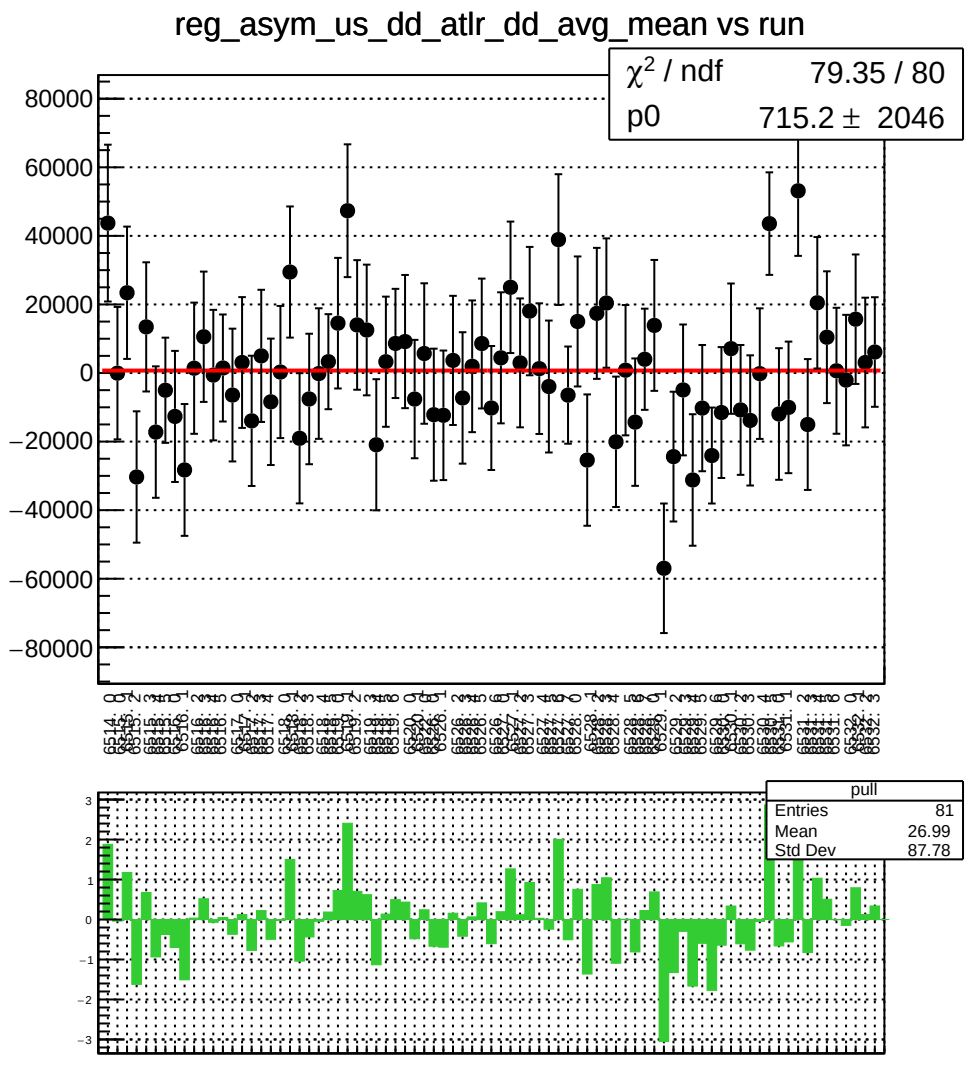

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.01 / 80
p0 −0.02896 ± 0.03994
pull
Entries 81
Mean 465.2
Std Dev 0

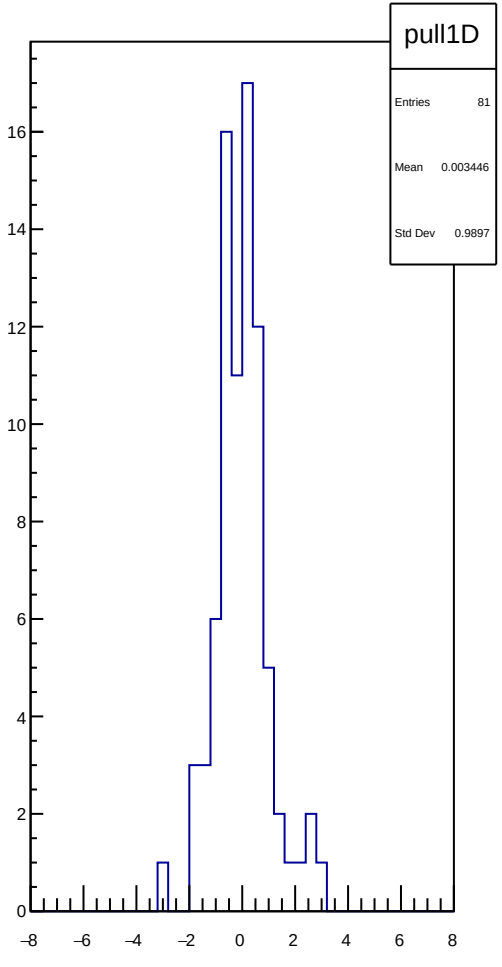

pull1D
Entries 81
Mean −0.01855
Std Dev 0.9685

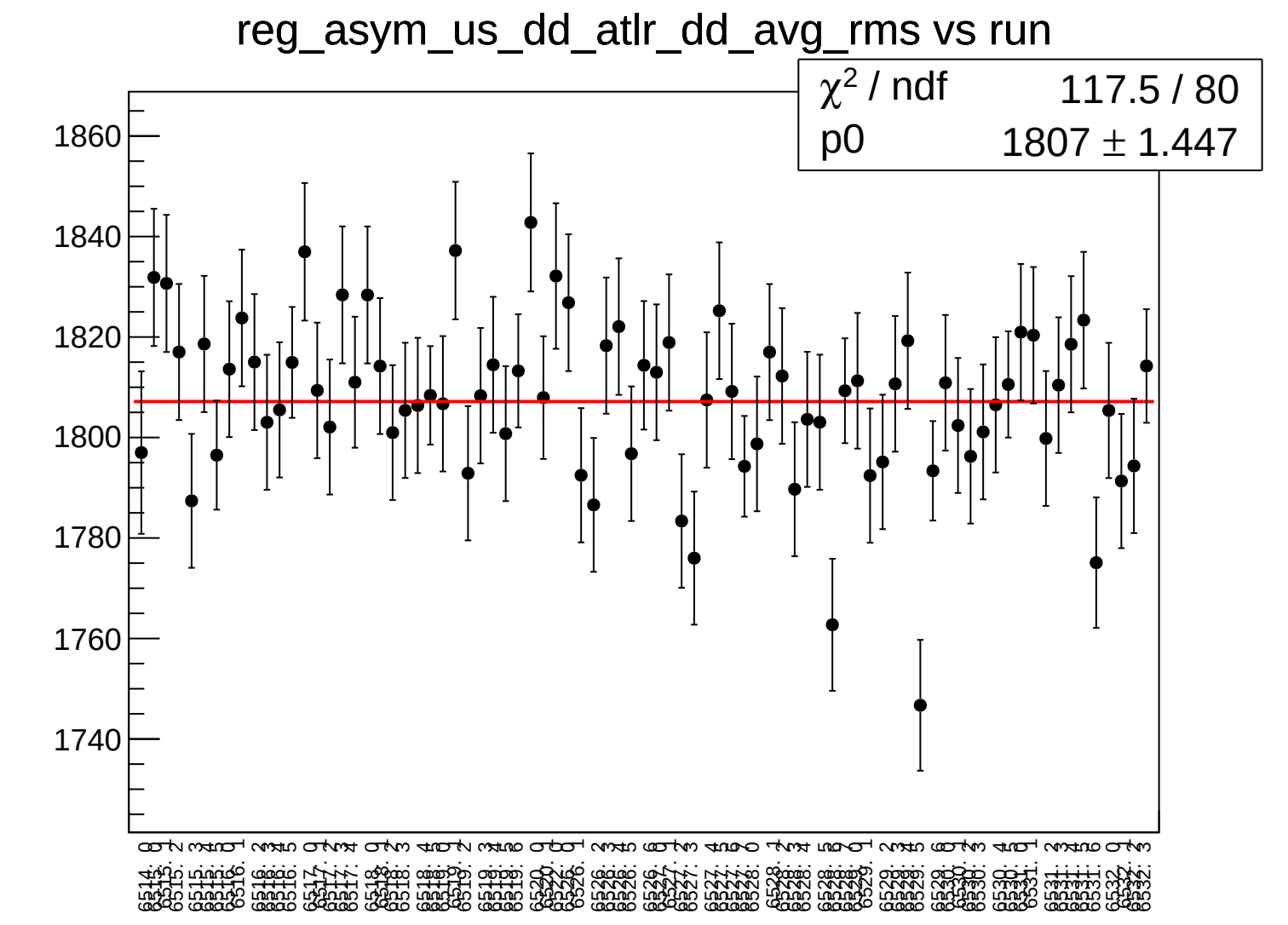

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.552e+05 / 80
p0 32.27 ± 0.02824
80
70
60
50
40
30
20
10

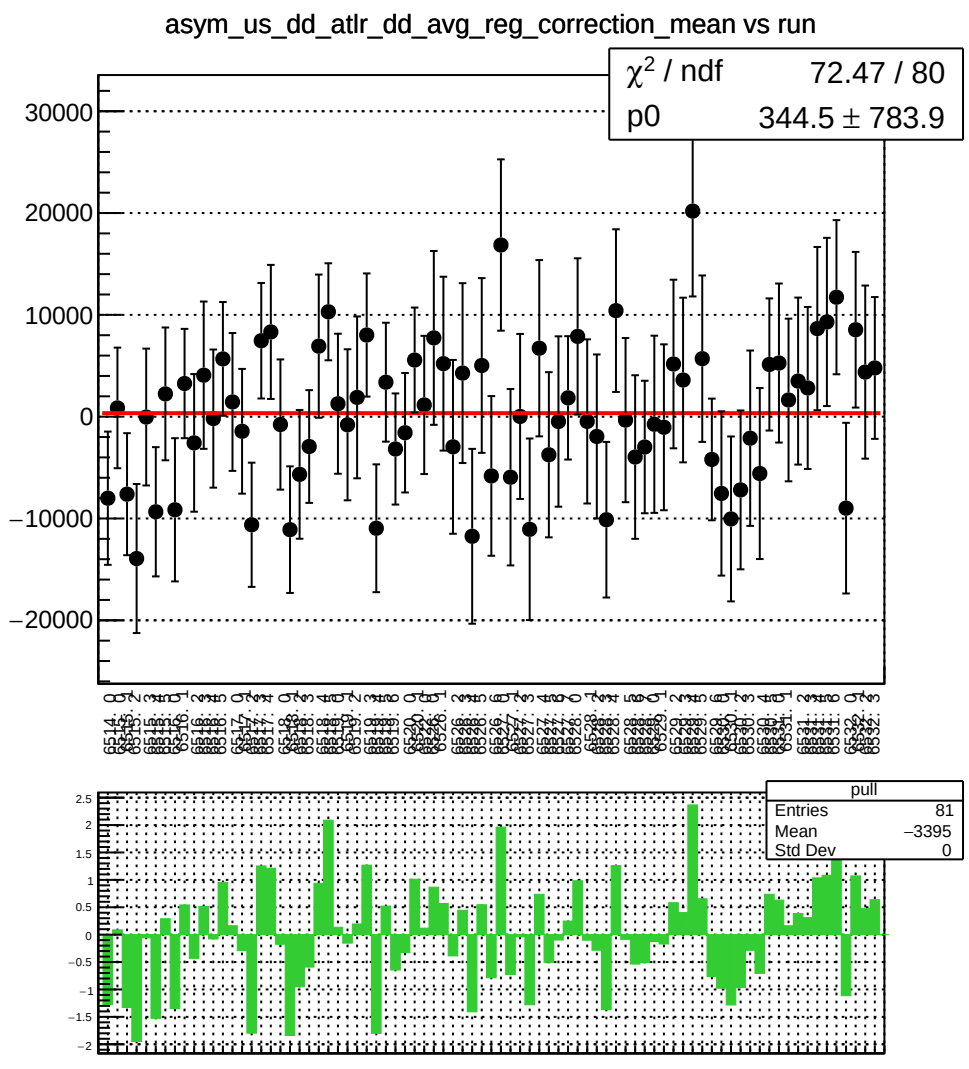

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.49 / 80
p0 −8.647e−15 ± 8.99e−15
pull
Entries 81
Mean 73.41
Std Dev 0
pull1D
Entries 81
Mean −0.1189
Std Dev 1.05

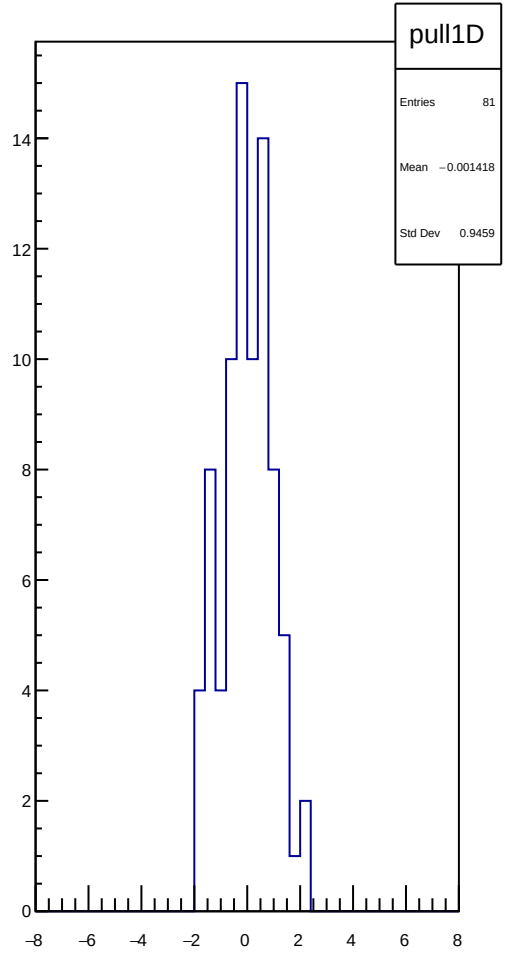

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.974e+05 / 80
p0 6.556e−12 ± 6.357e−15
45
40
35
30
25
20
15
10
5

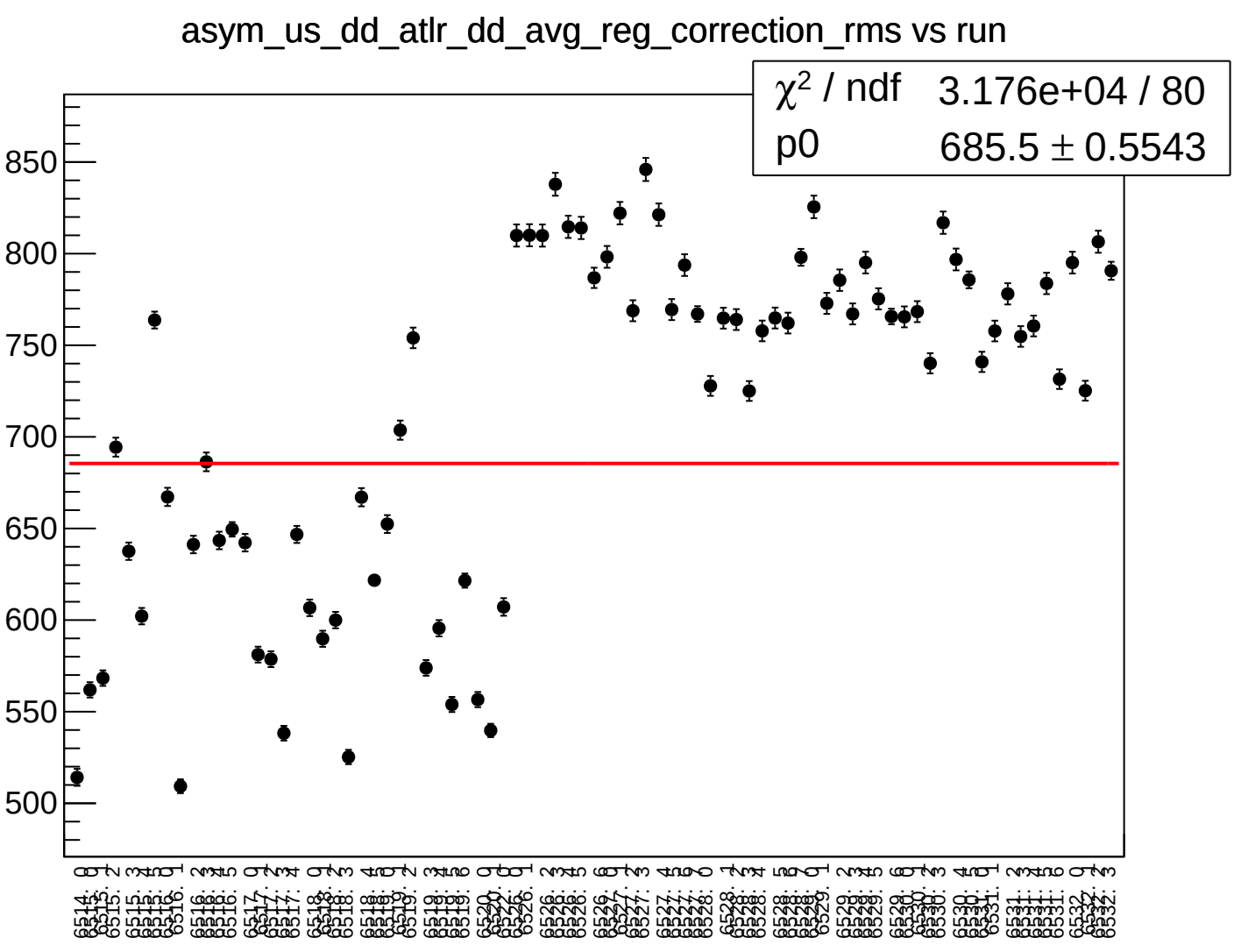

reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 79.35 / 80
p0 715.2 ± 2046
pull
Entries 81
Mean 26.99
Std Dev 87.78

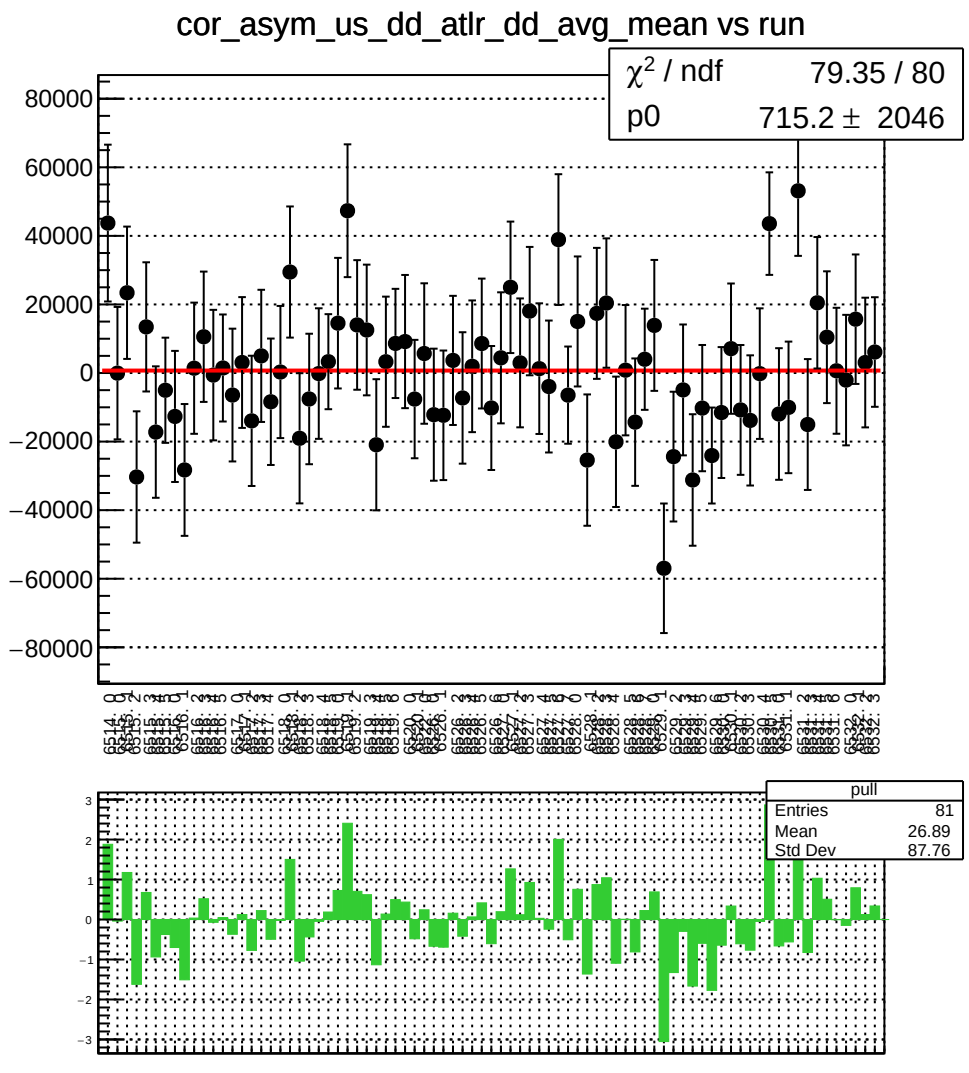

pull1D
Entries 81
Mean 0.003446
Std Dev 0.9897

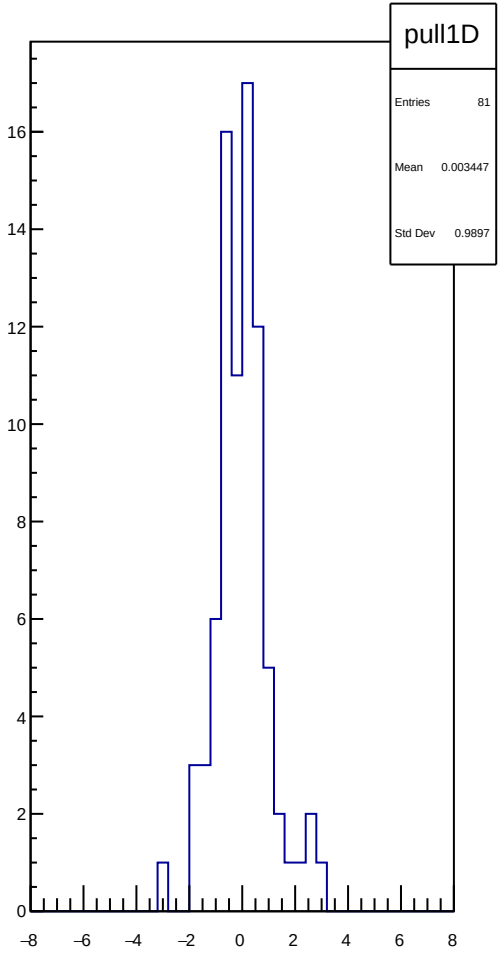

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 117.5 / 80
p0 1807 ± 1.447
1860
1840
1820
1800
1780
1760
1740

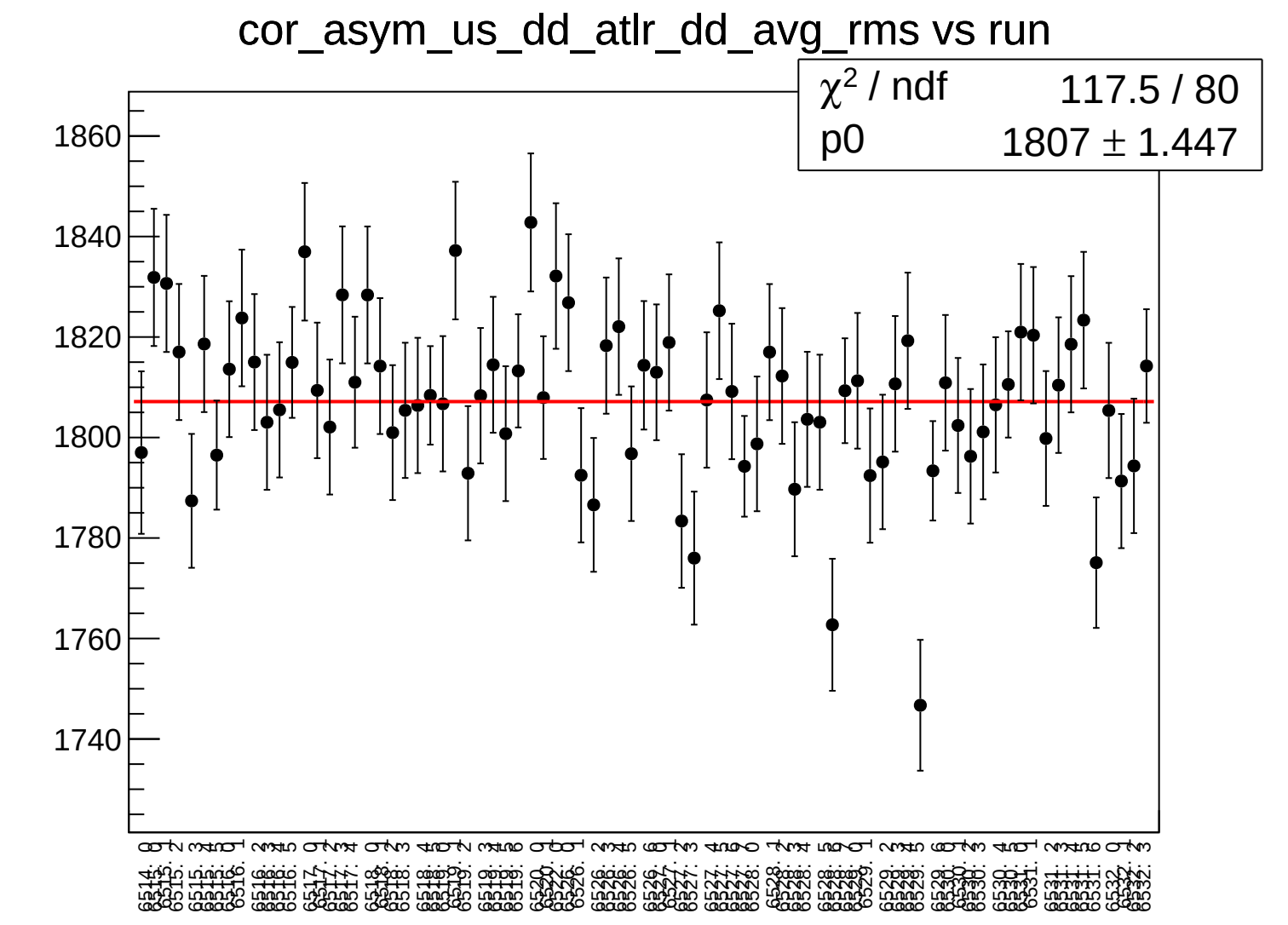

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
χ² / ndf 72.47 / 80
p0 344.5 ± 783.9
30000
20000
10000
0
−10000
−20000
pull
Entries 81
Mean −3395
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

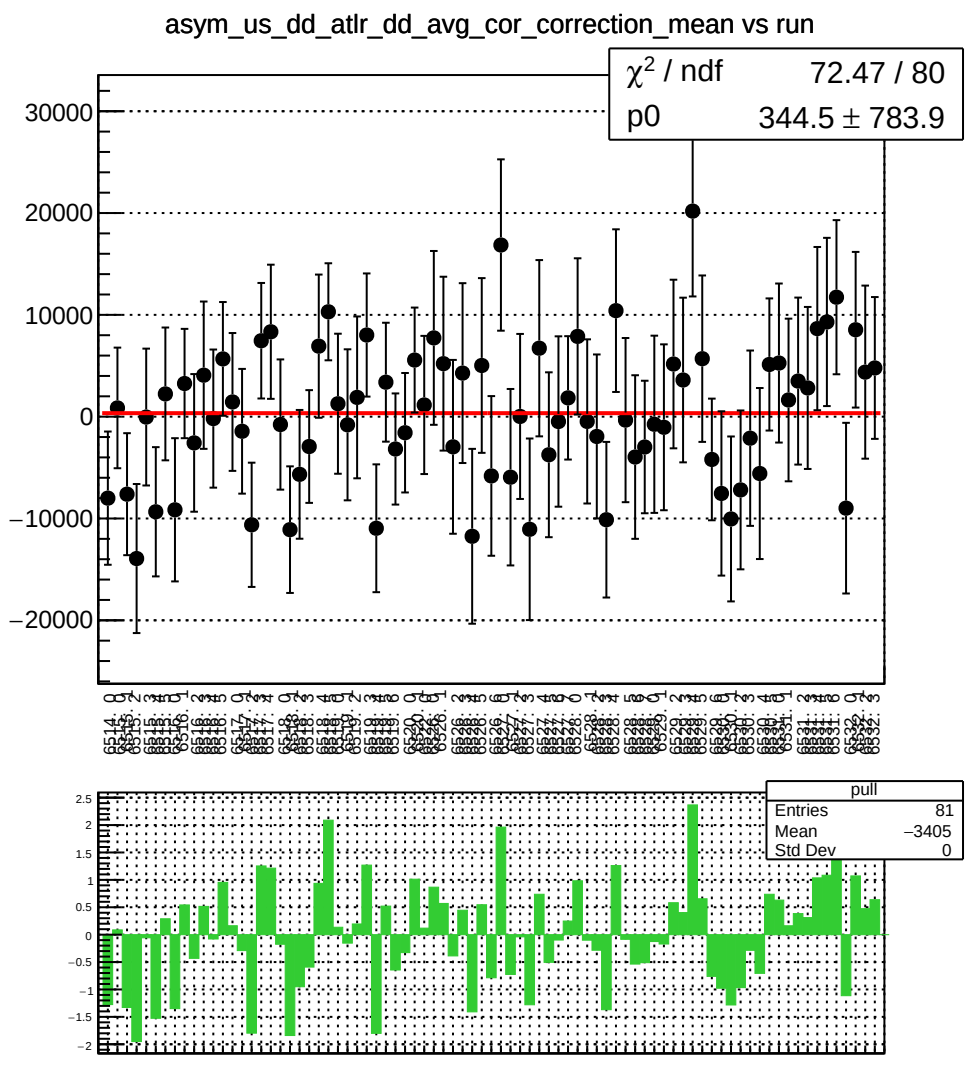

pull1D
Entries 81
Mean −0.001418
Std Dev 0.9459
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

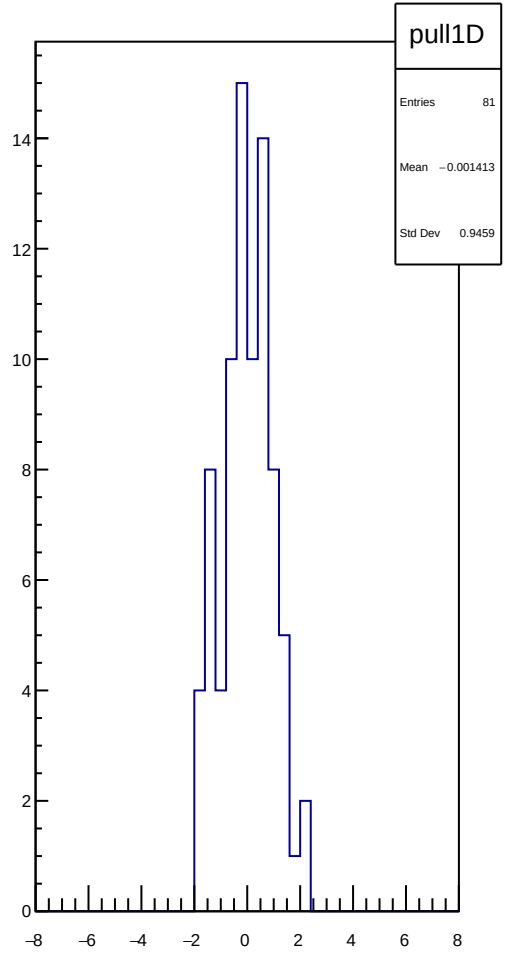

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 3.176e+04 / 80
p0 685.5 ± 0.5543
850
800
750
700
650
600
550
500

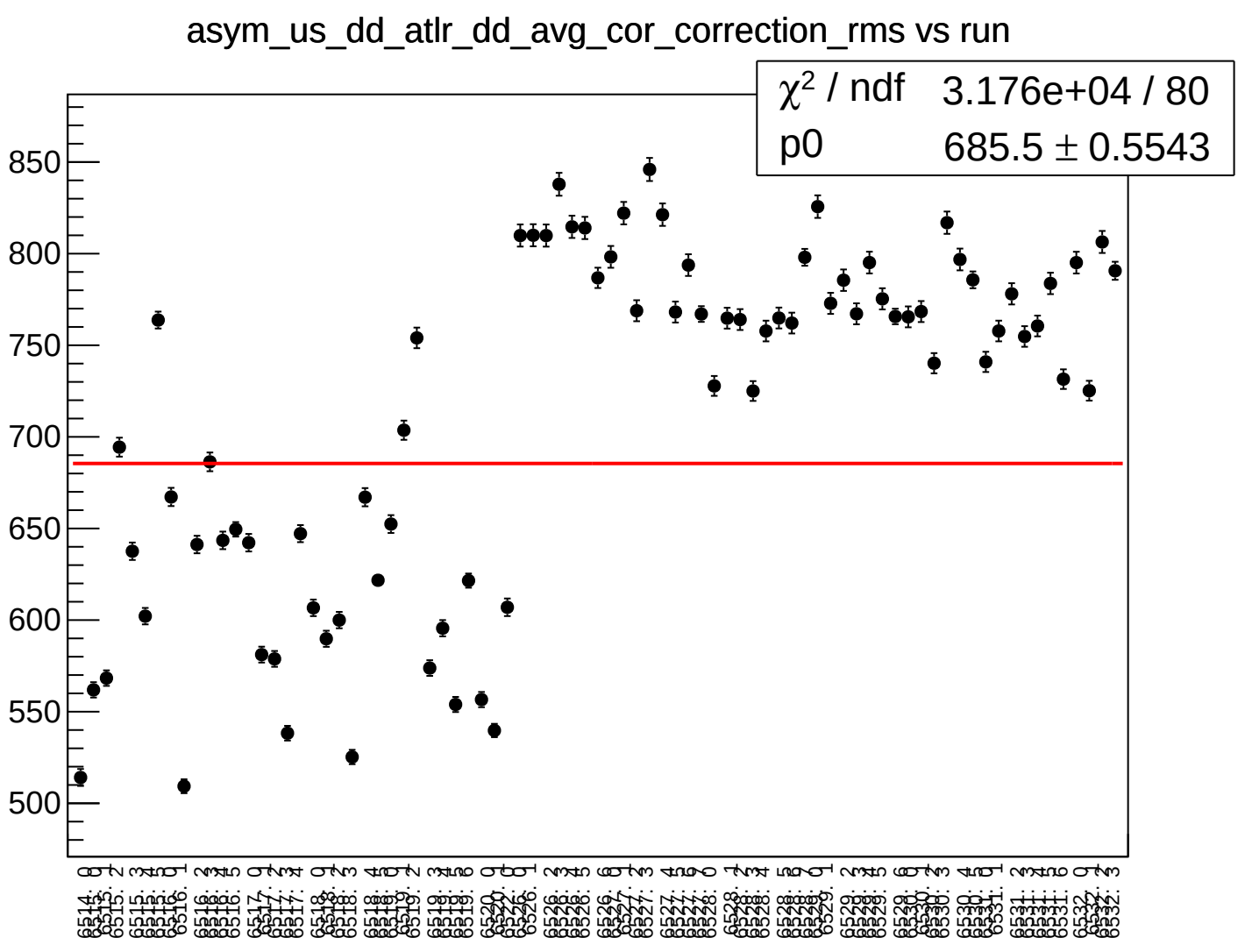

cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 79.35 / 80
p0 715.2 ± 2046
pull
Entries 81
Mean 26.89
Std Dev 87.76

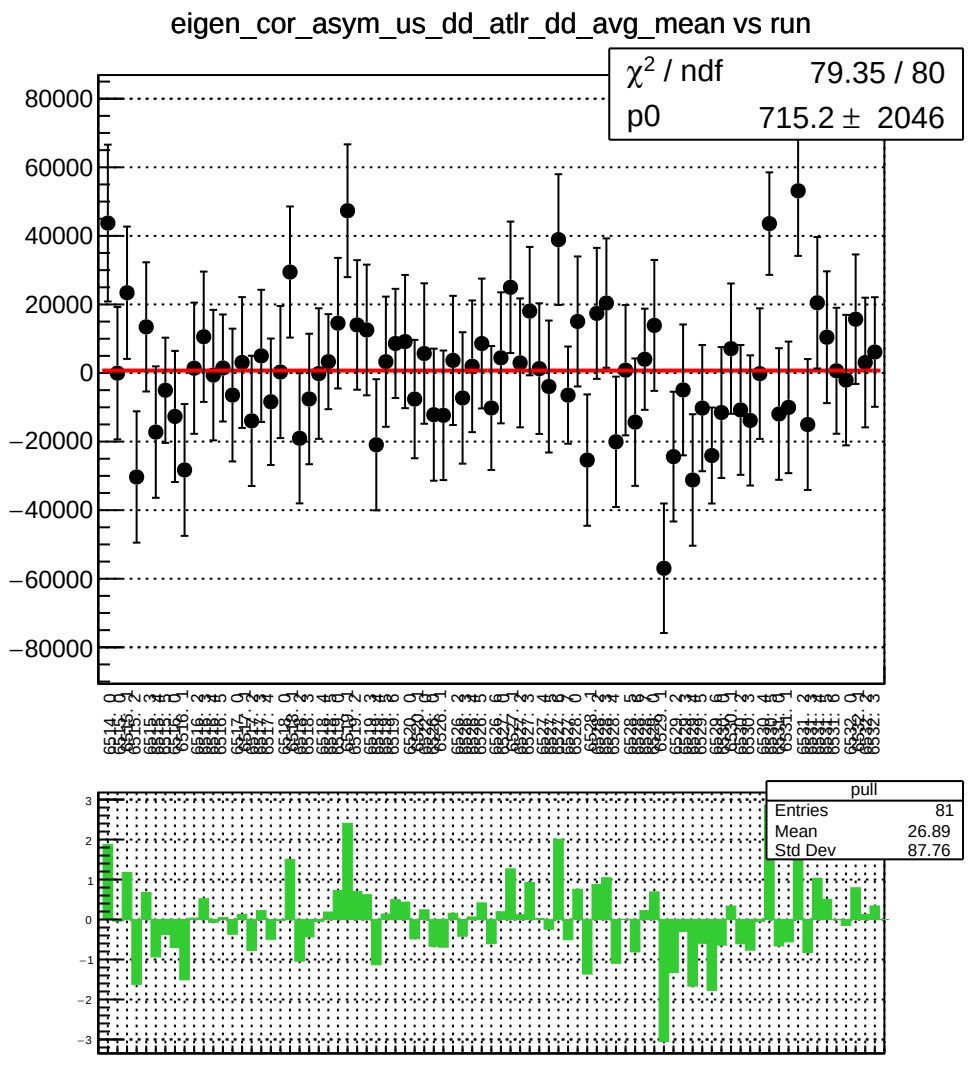

pull1D
Entries 81
Mean 0.003447
Std Dev 0.9897

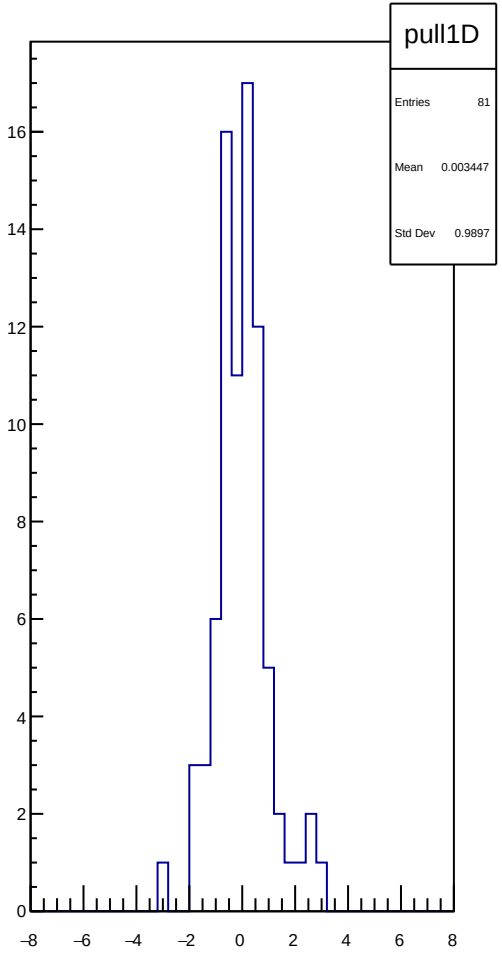

cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 117.5 / 80
p0 1807 ± 1.447
1860
1840
1820
1800
1780
1760
1740

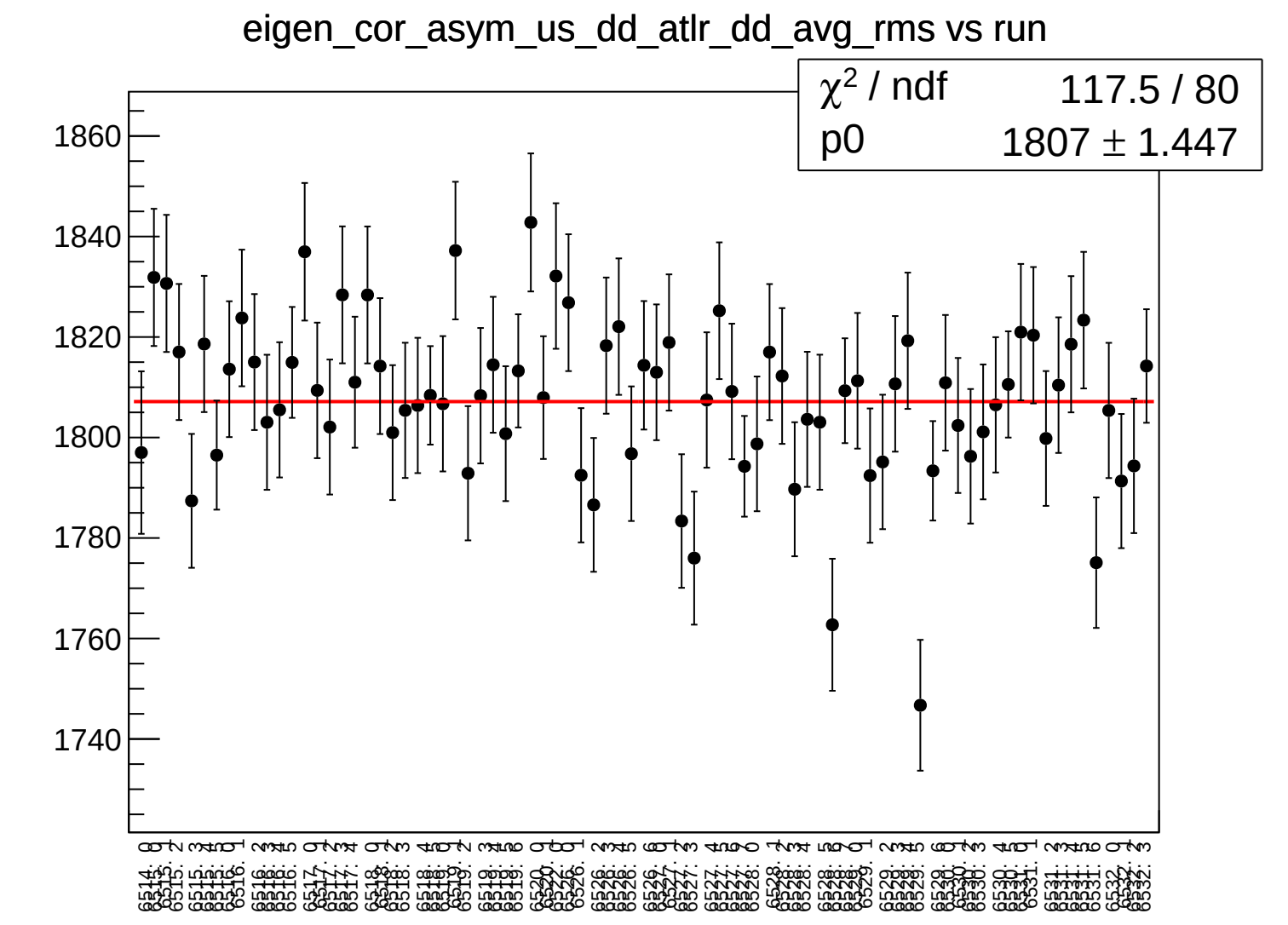

asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
χ² / ndf 72.47 / 80
p0 344.5 ± 783.9
30000
20000
10000
0
−10000
−20000
pull
Entries 81
Mean −3405
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

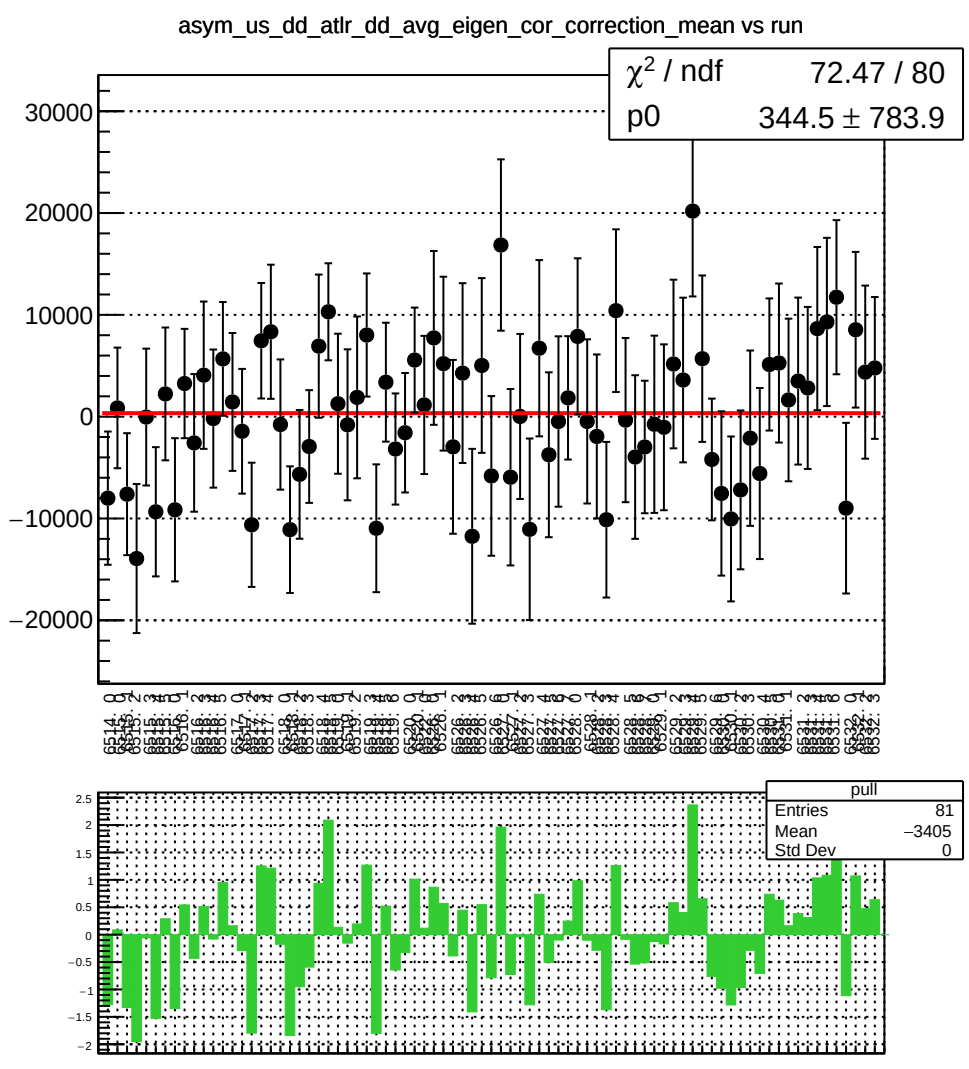

pull1D
Entries 81
Mean −0.001413
Std Dev 0.9459
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

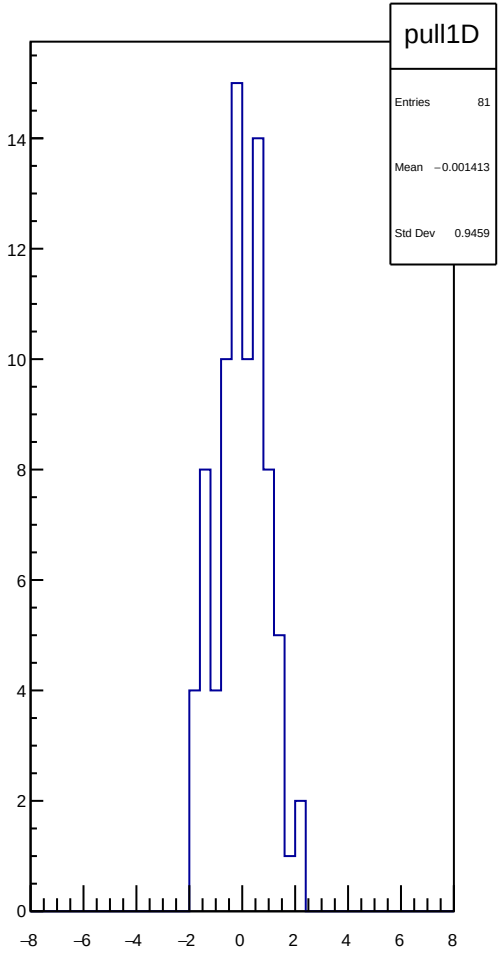

asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 3.176e+04 / 80
p0 685.5 ± 0.5543
850
800
750
700
650
600
550
500

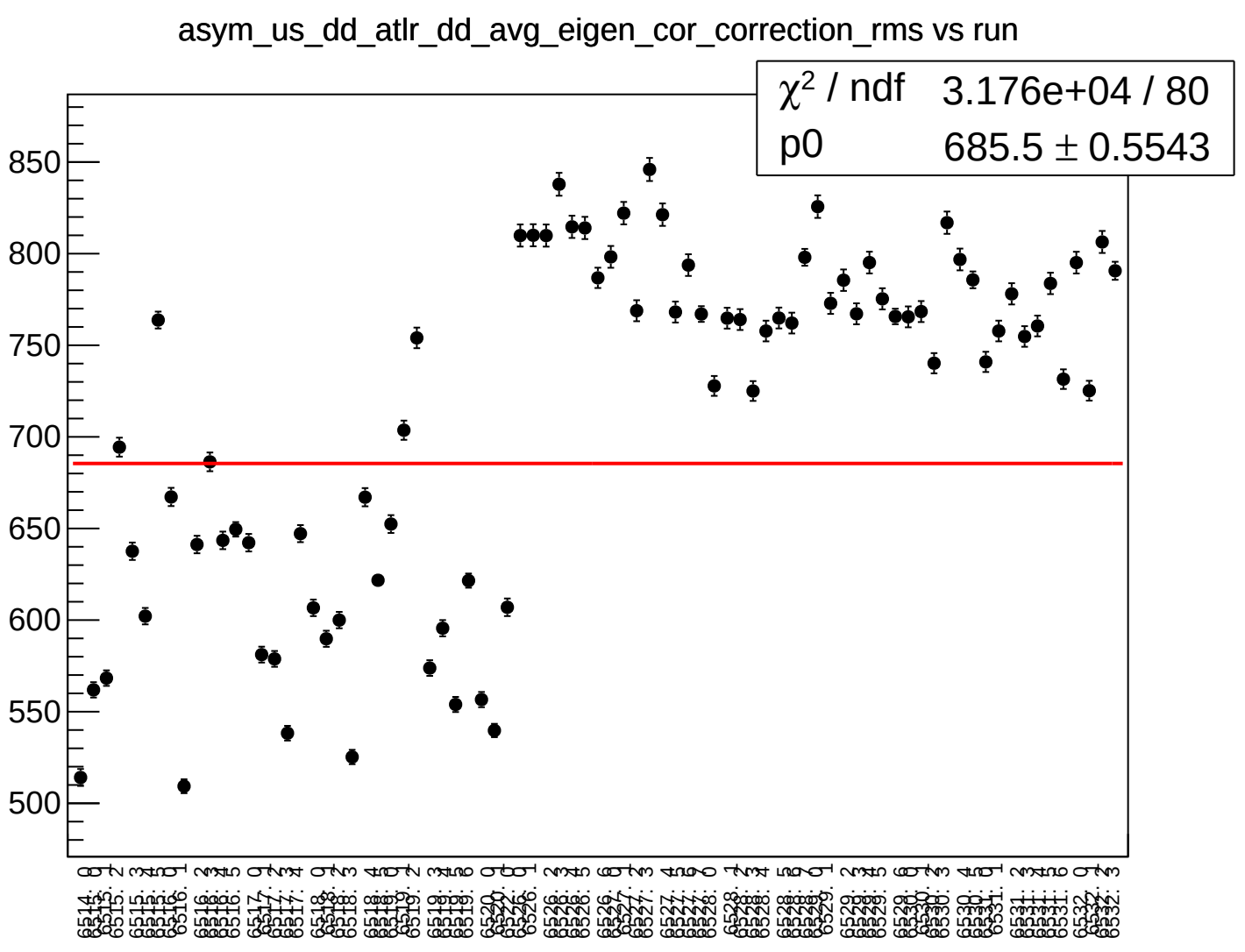

eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 79.35 / 80
p0 715.2 ± 2046
pull
Entries 81
Mean 26.89
Std Dev 87.76

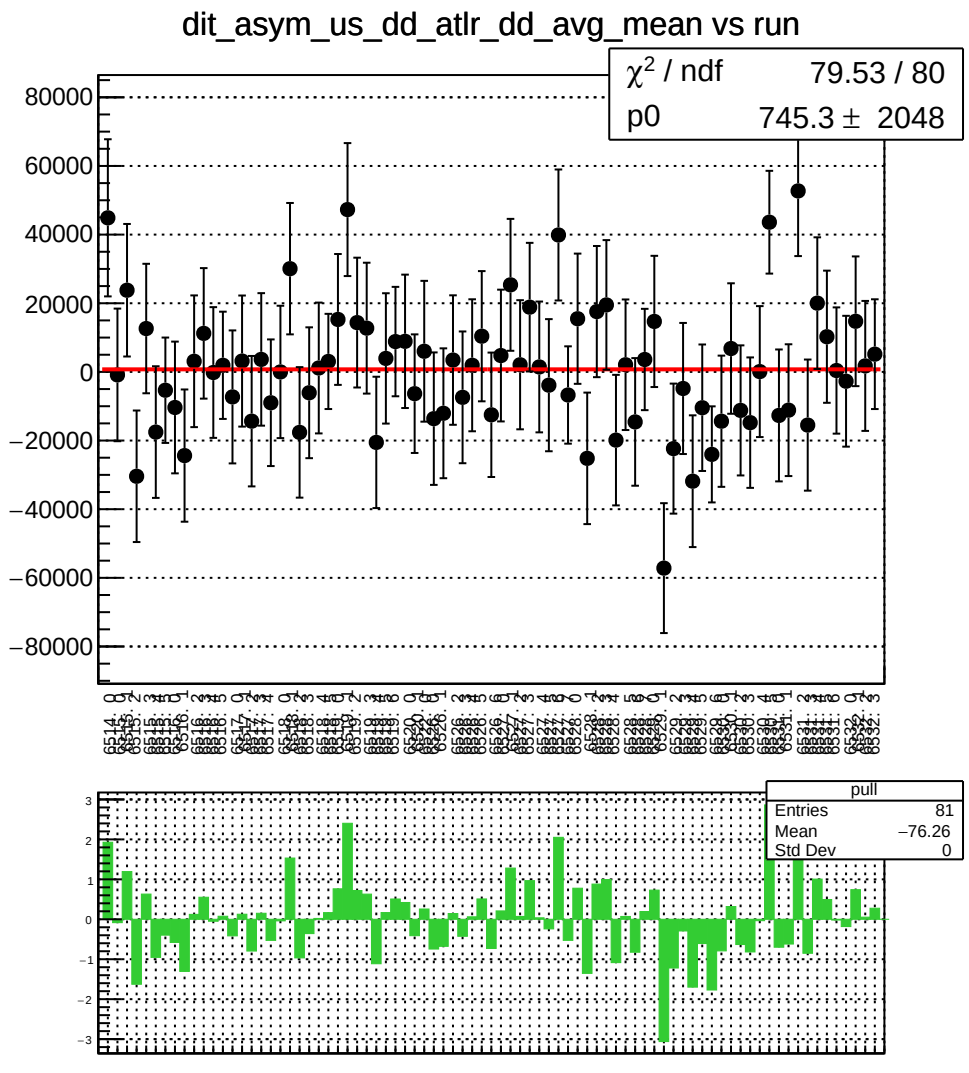

pull1D
Entries 81
Mean 0.003447
Std Dev 0.9897

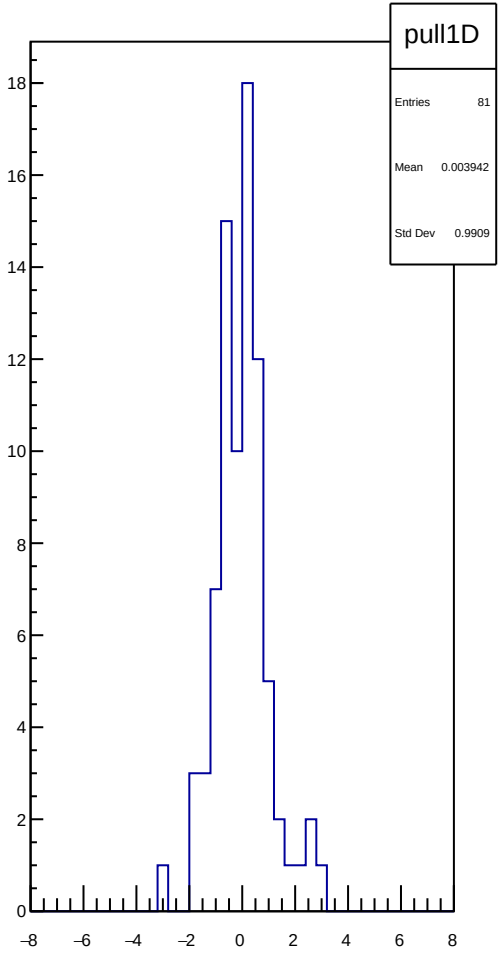

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 117.5 / 80
p0 1807 ± 1.447
1860
1840
1820
1800
1780
1760
1740

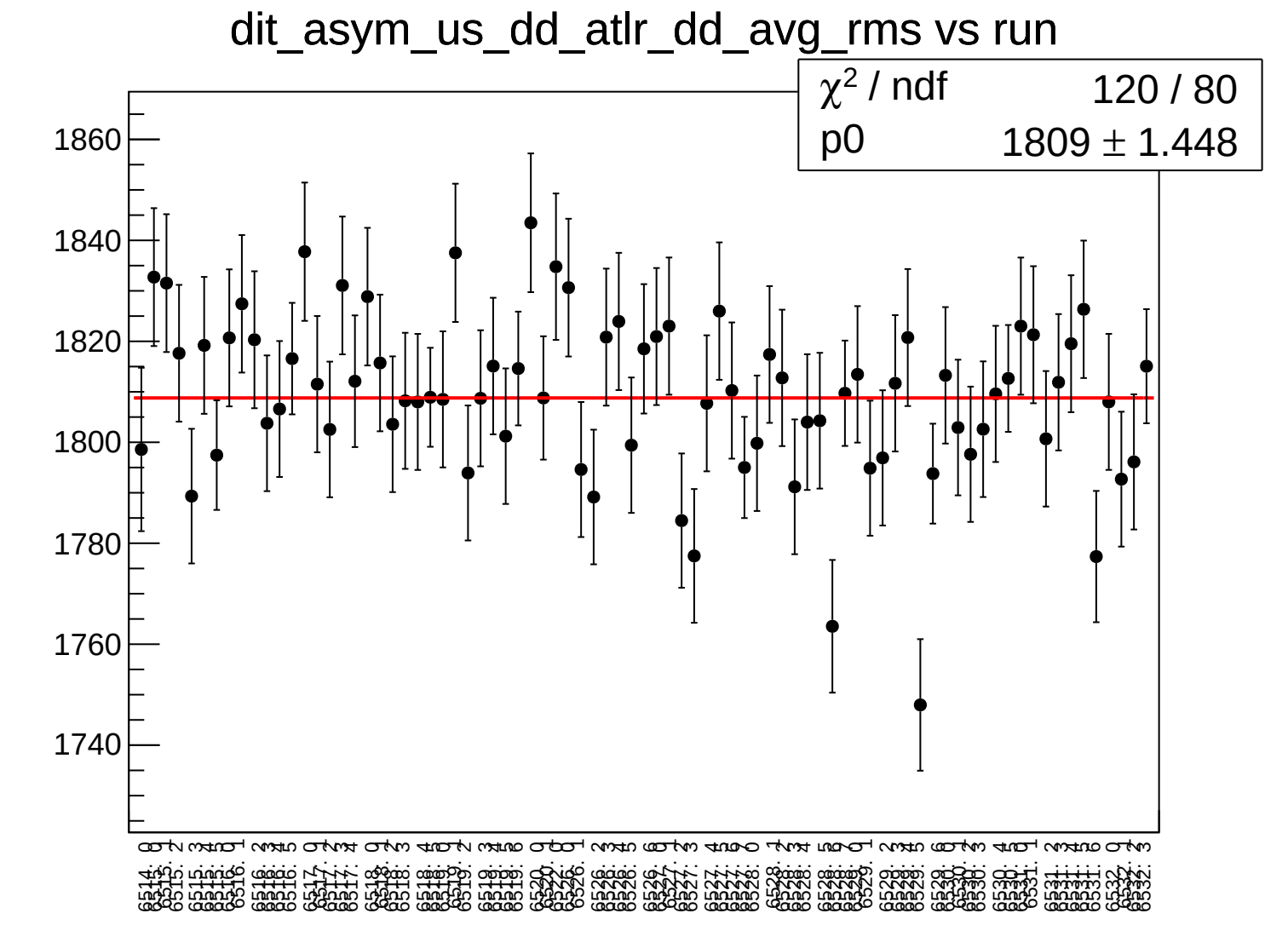

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 72.47 / 80
p0 344.5 ± 783.9
30000
20000
10000
0
−10000
−20000
pull
Entries 81
Mean −3405
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

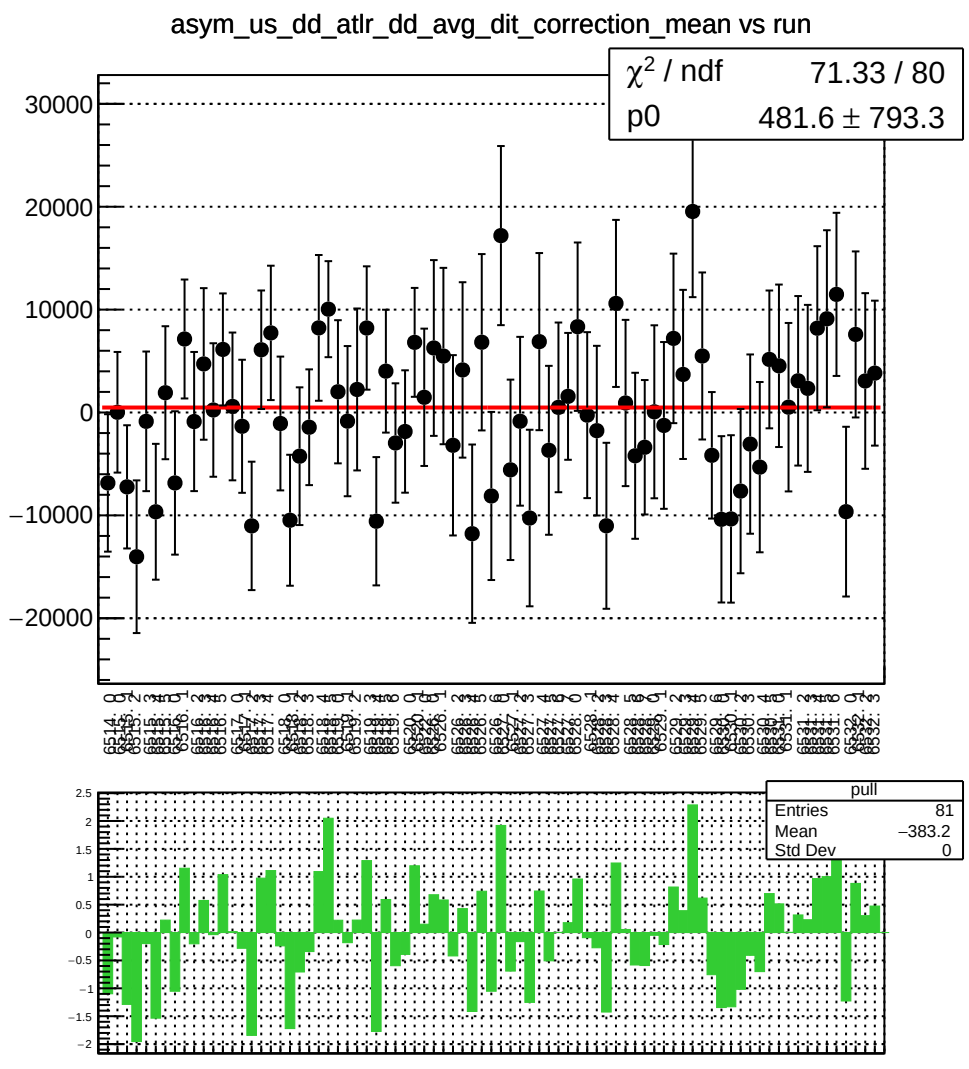

pull1D
Entries 81
Mean −0.001413
Std Dev 0.9459
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

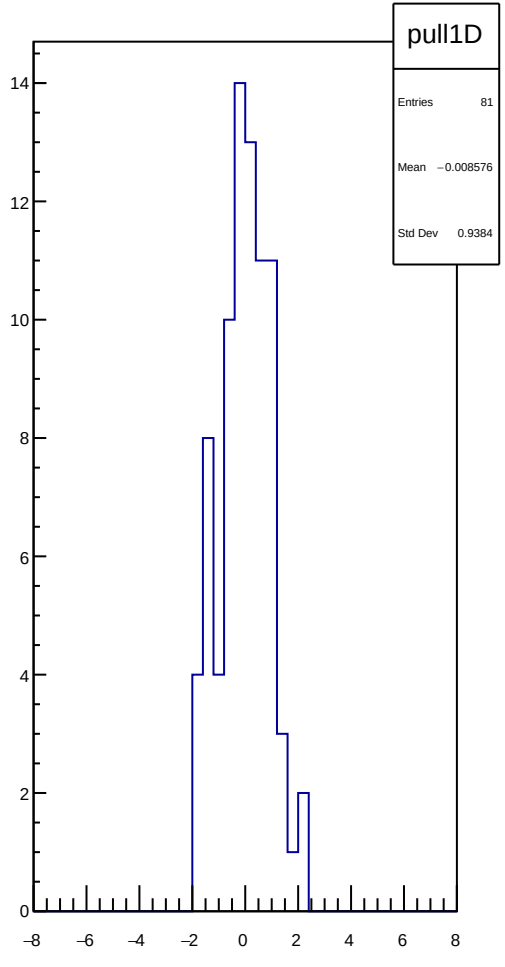

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.176e+04 / 80
p0 685.5 ± 0.5543
850
800
750
700
650
600
550
500

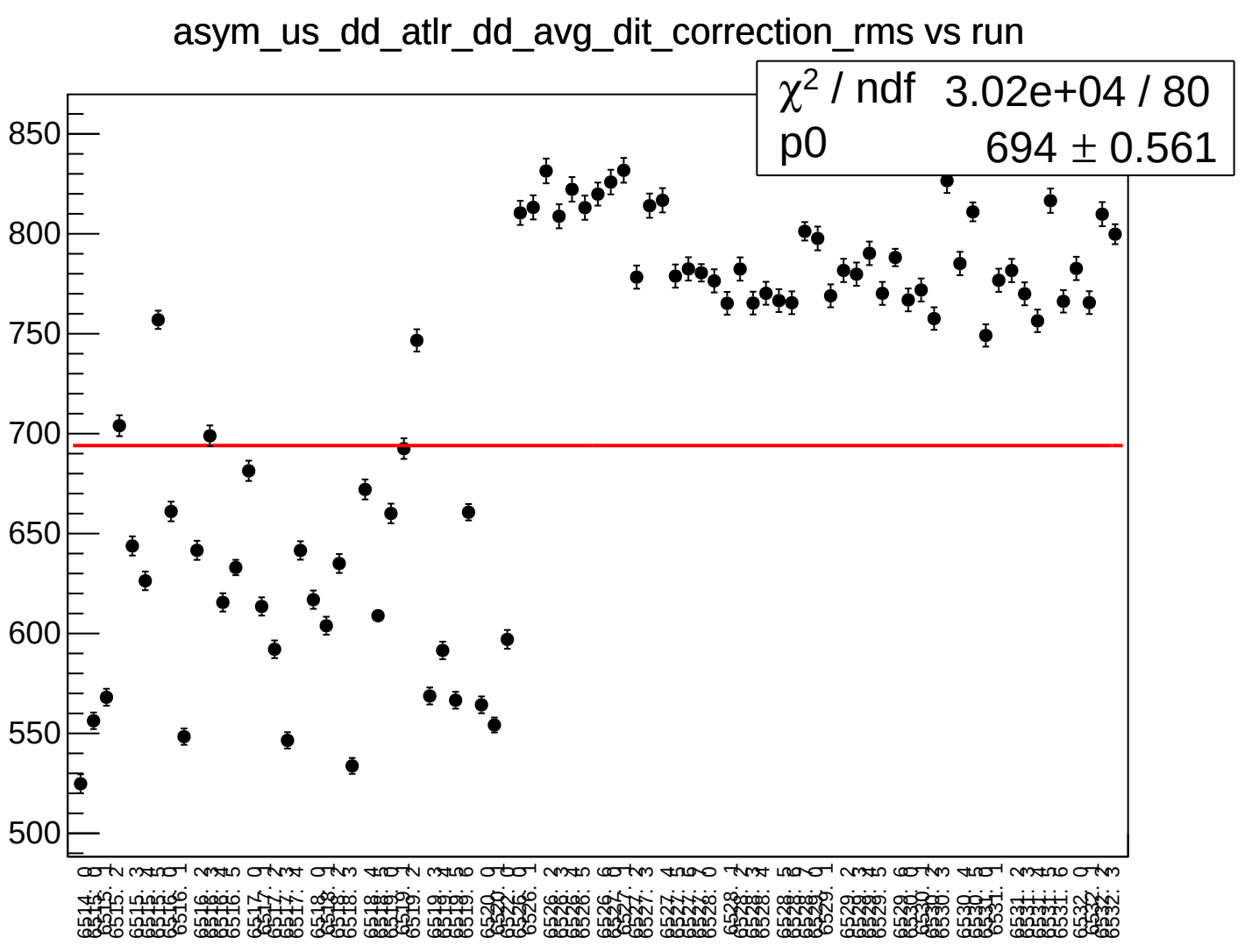

dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 79.53 / 80
p0 745.3 ± 2048
pull
Entries 81
Mean −76.26
Std Dev 0

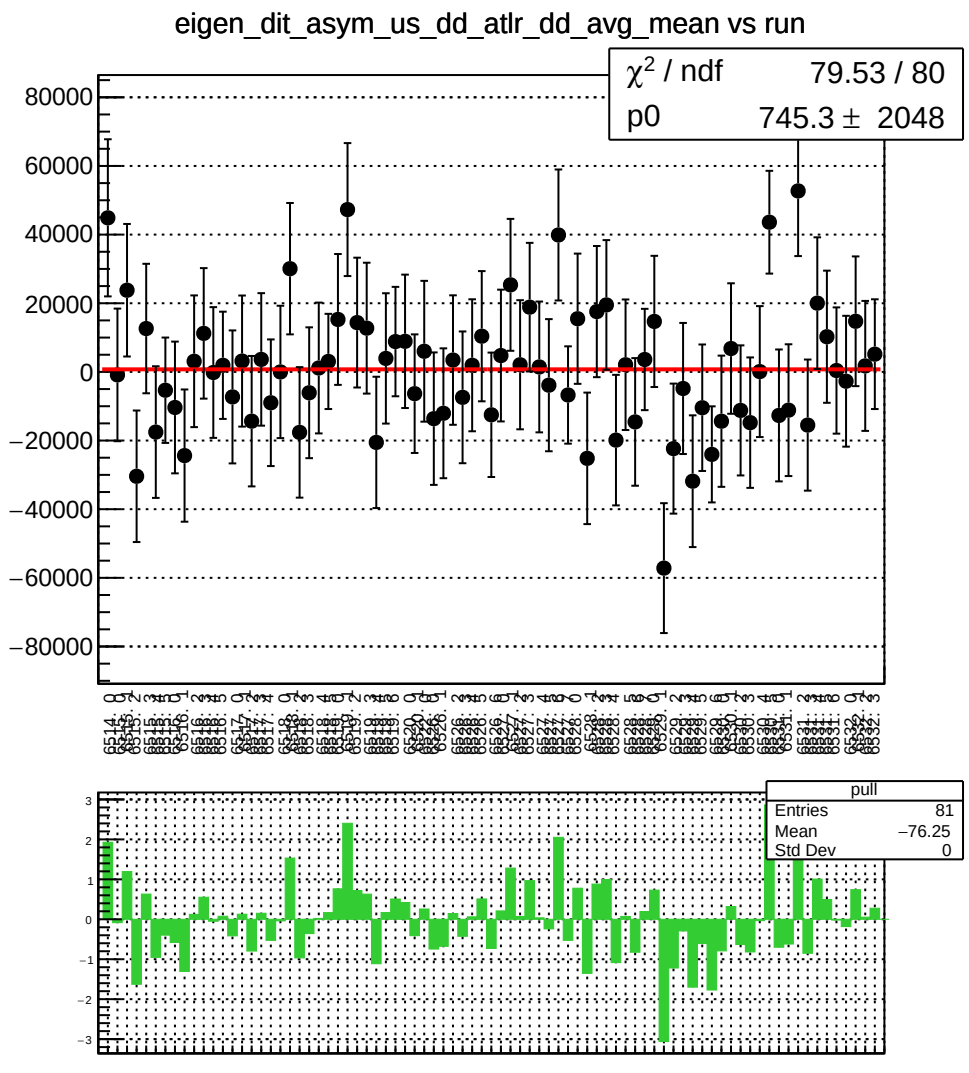

pull1D
Entries 81
Mean 0.003942
Std Dev 0.9909

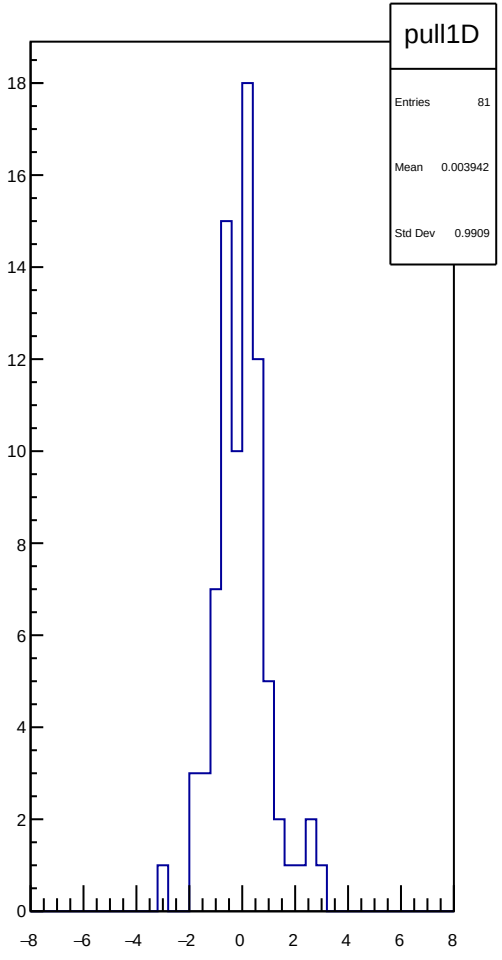

dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 120 / 80
p0 1809 ± 1.448
1860
1840
1820
1800
1780
1760
1740

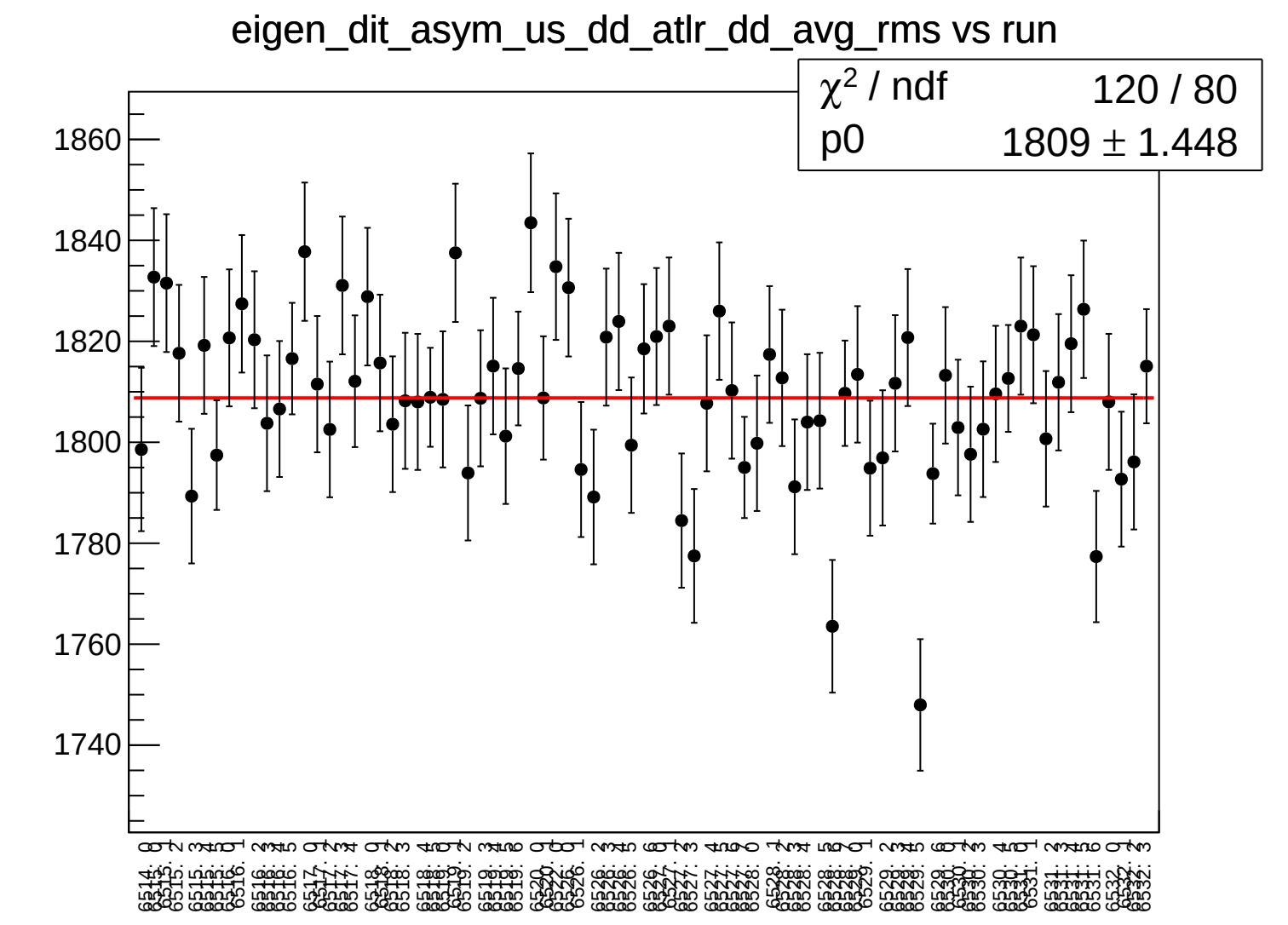

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
χ² / ndf 71.33 / 80
p0 481.6 ± 793.3
30000
20000
10000
0
−10000
−20000
pull
Entries 81
Mean −383.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

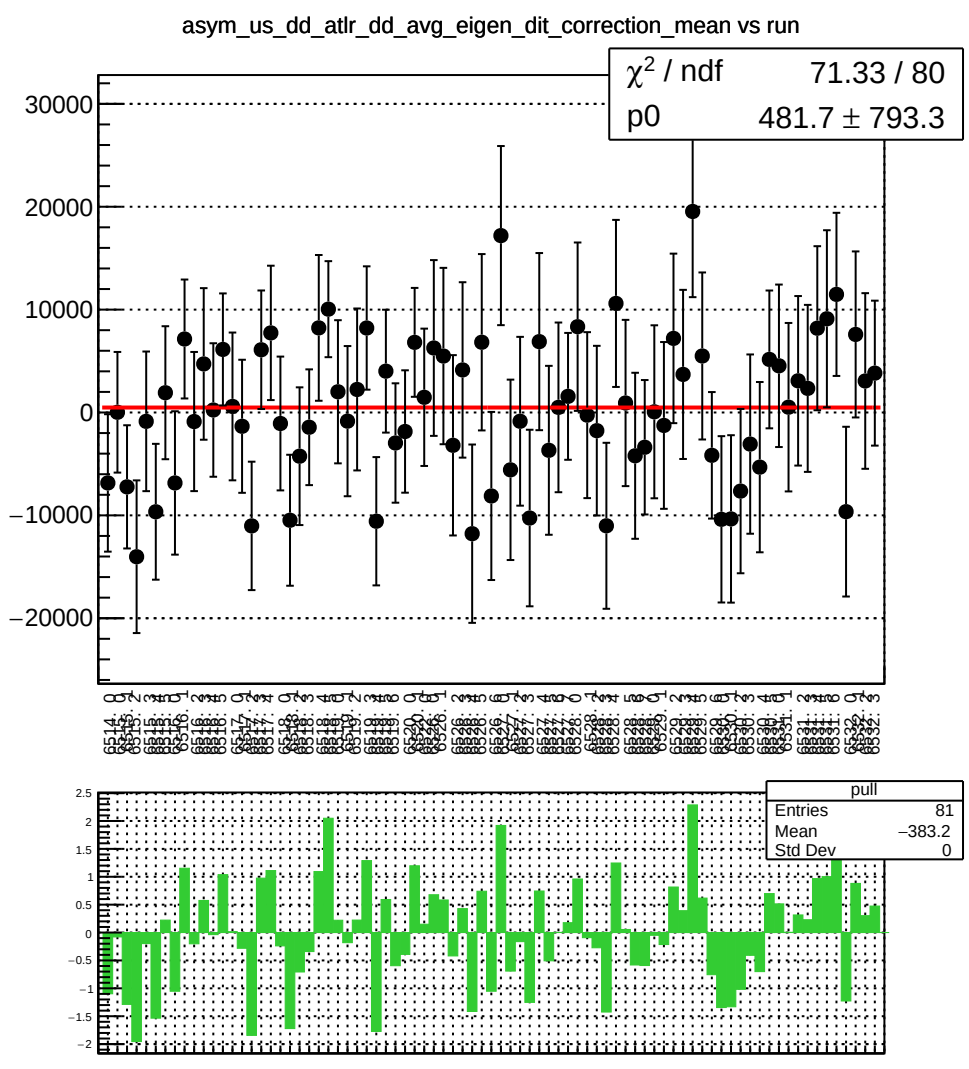

pull1D
Entries 81
Mean −0.008576
Std Dev 0.9384
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

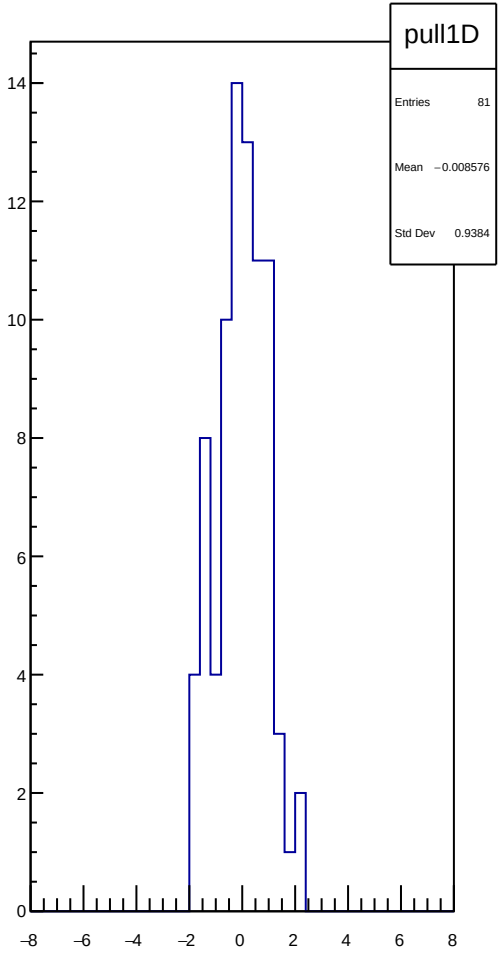

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ² / ndf 3.02e+04 / 80
p0 694 ± 0.561
850
800
750
700
650
600
550
500

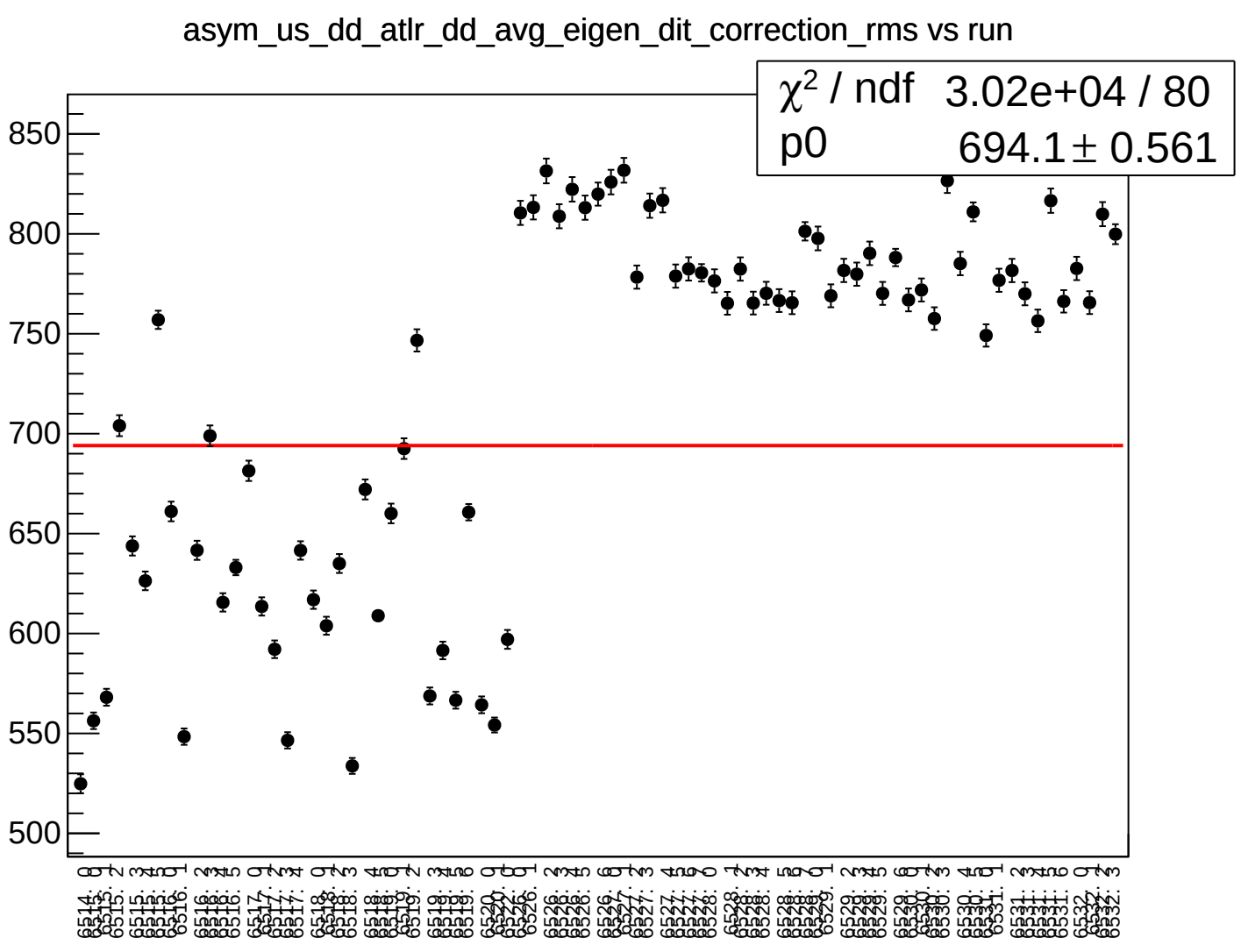

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 79.53 / 80
p0 745.3 ± 2048
pull
Entries 81
Mean −76.25
Std Dev 0

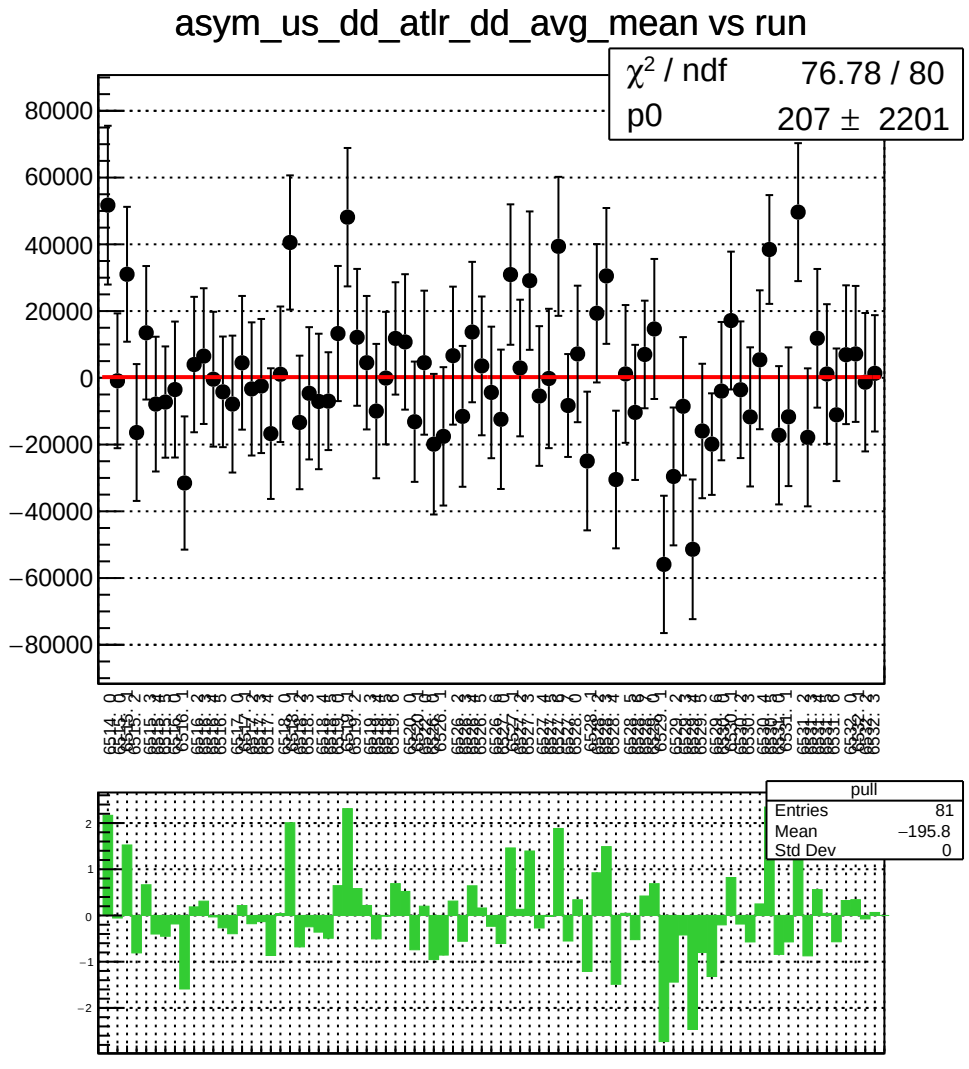

pull1D
Entries 81
Mean 0.003942
Std Dev 0.9909

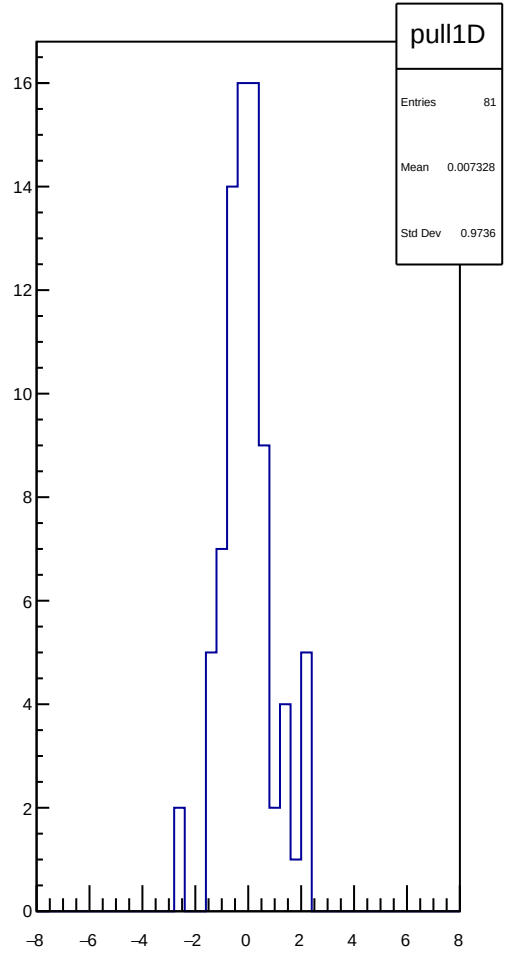

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 120 / 80
p0 1809 ± 1.448
1860
1840
1820
1800
1780
1760
1740

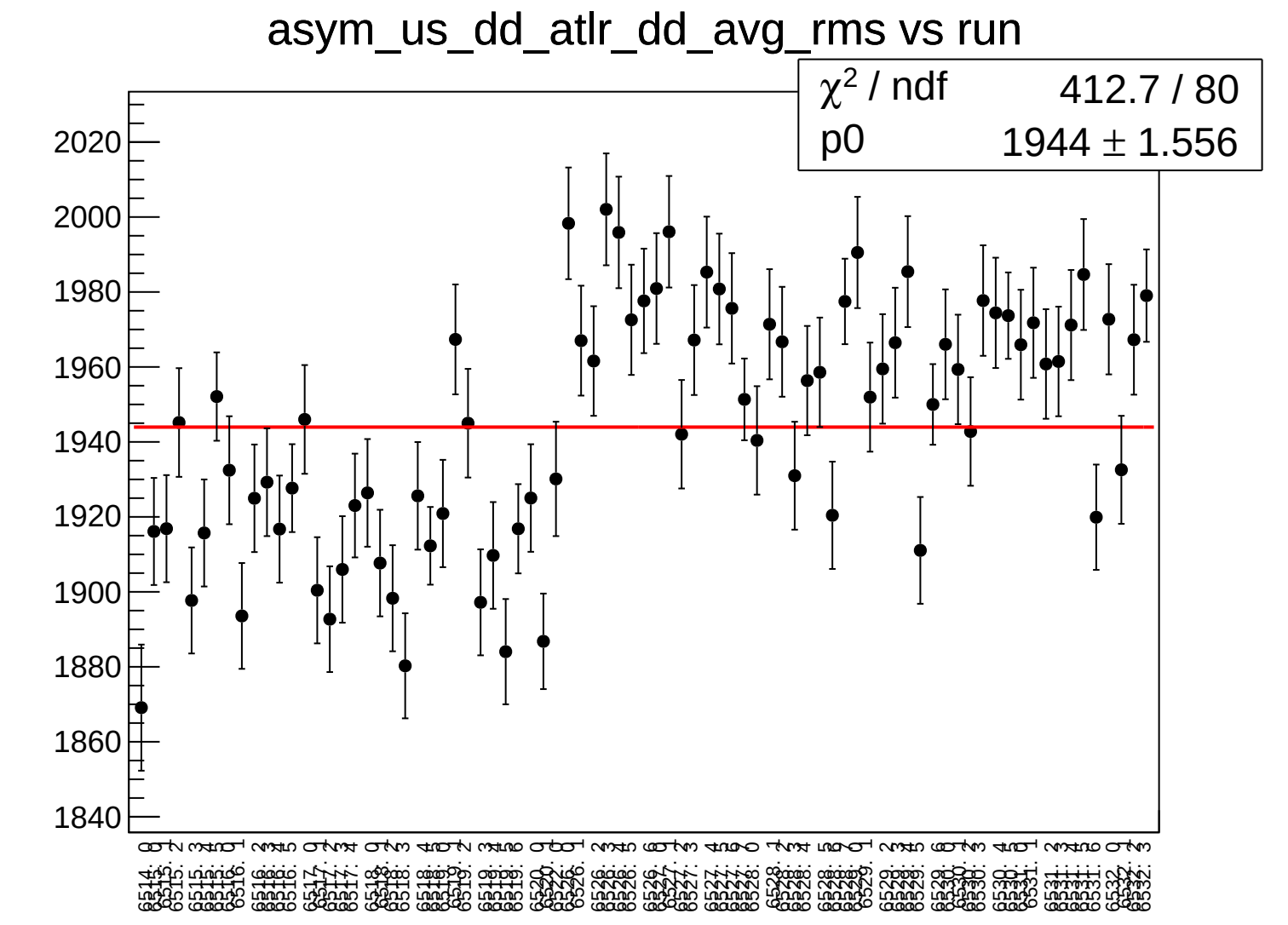

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 71.33 / 80
p0 481.7 ± 793.3
pull
Entries 81
Mean −383.2
Std Dev 0

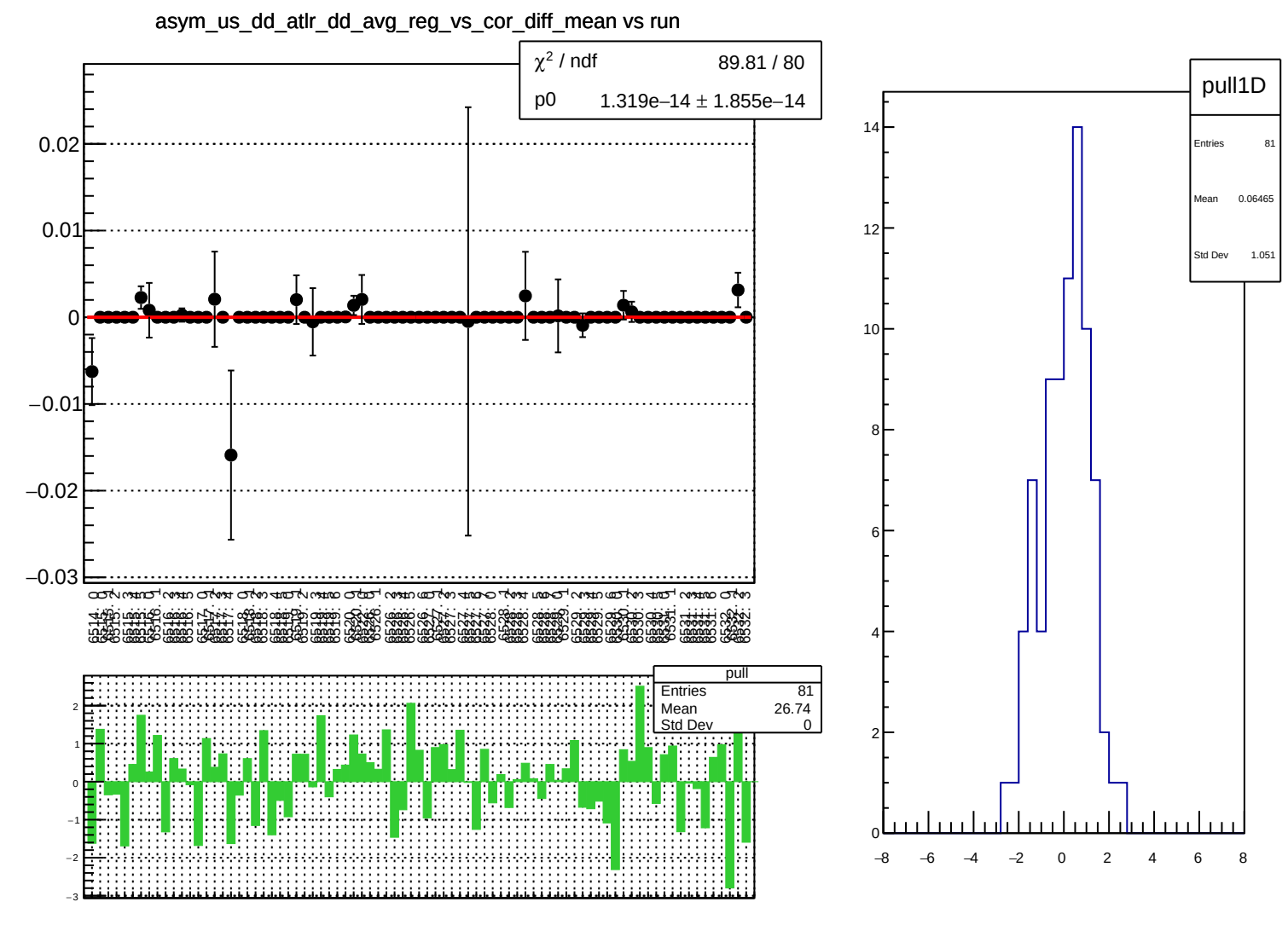

pull1D
Entries 81
Mean −0.008576
Std Dev 0.9384

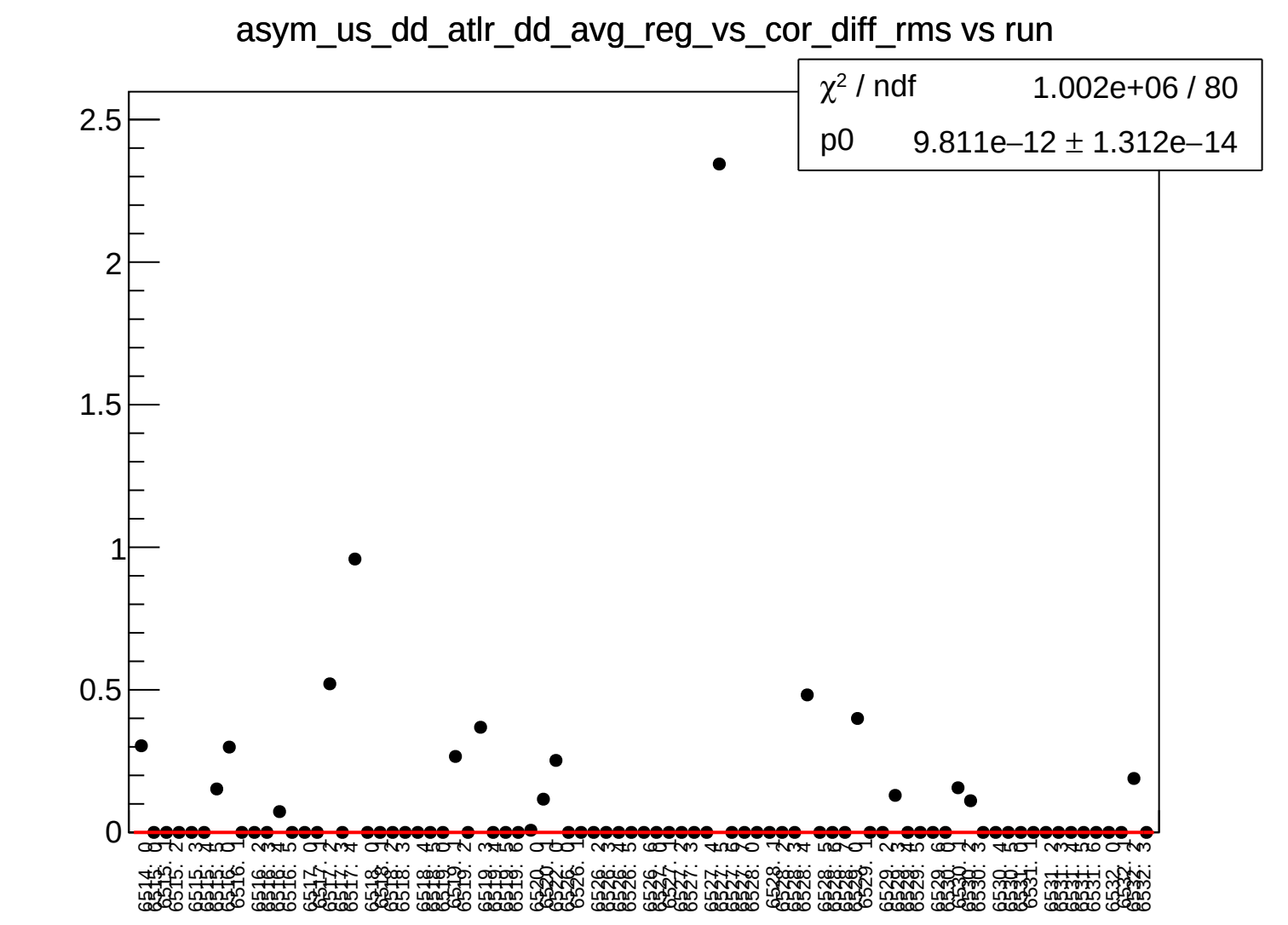

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.02e+04 / 80
p0 694.1 ± 0.561
850
800
750
700
650
600
550
500

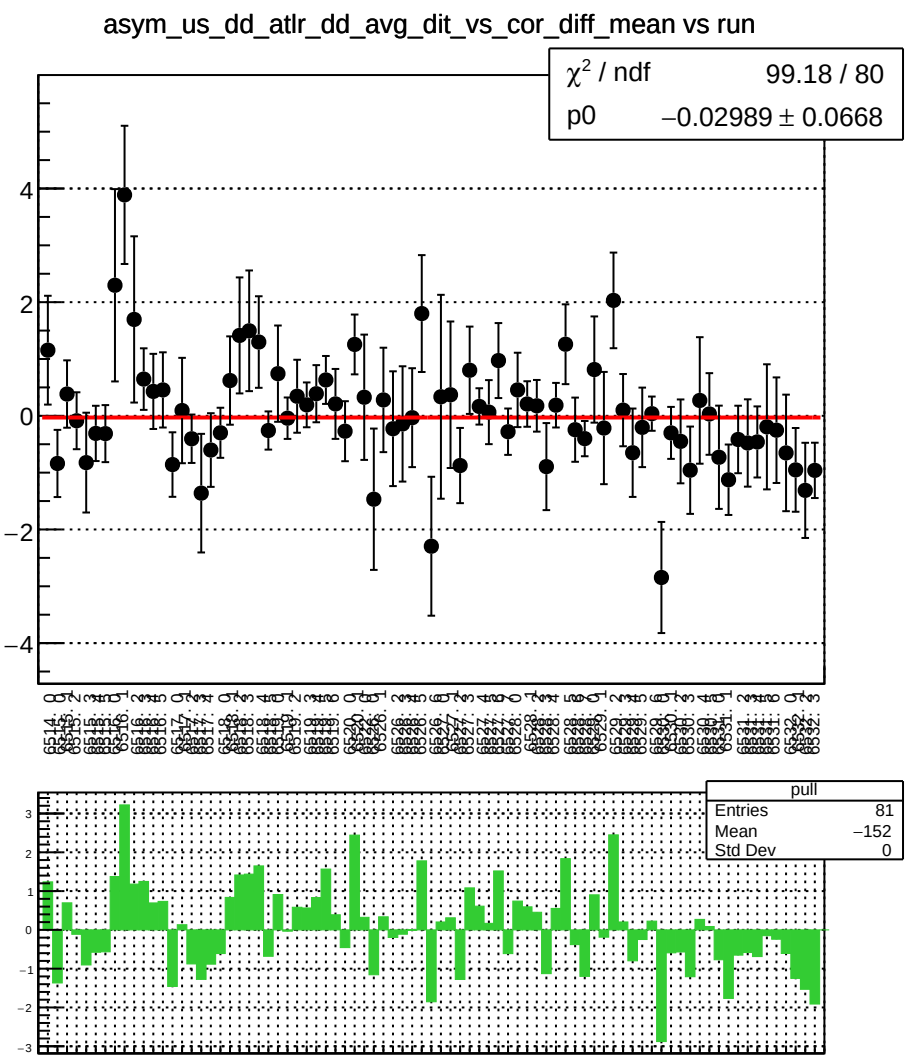

asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 76.78 / 80
p0 207 ± 2201
pull
Entries 81
Mean −195.8
Std Dev 0

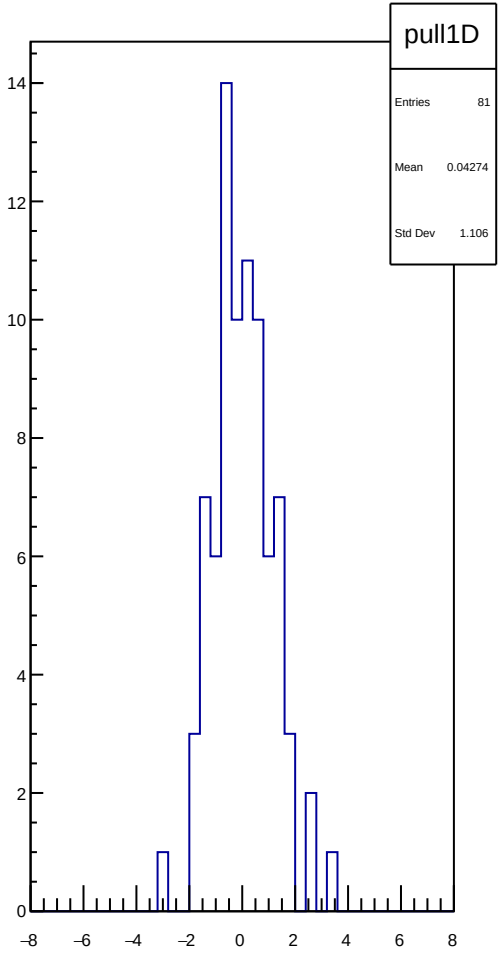

pull1D
Entries 81
Mean 0.007328
Std Dev 0.9736

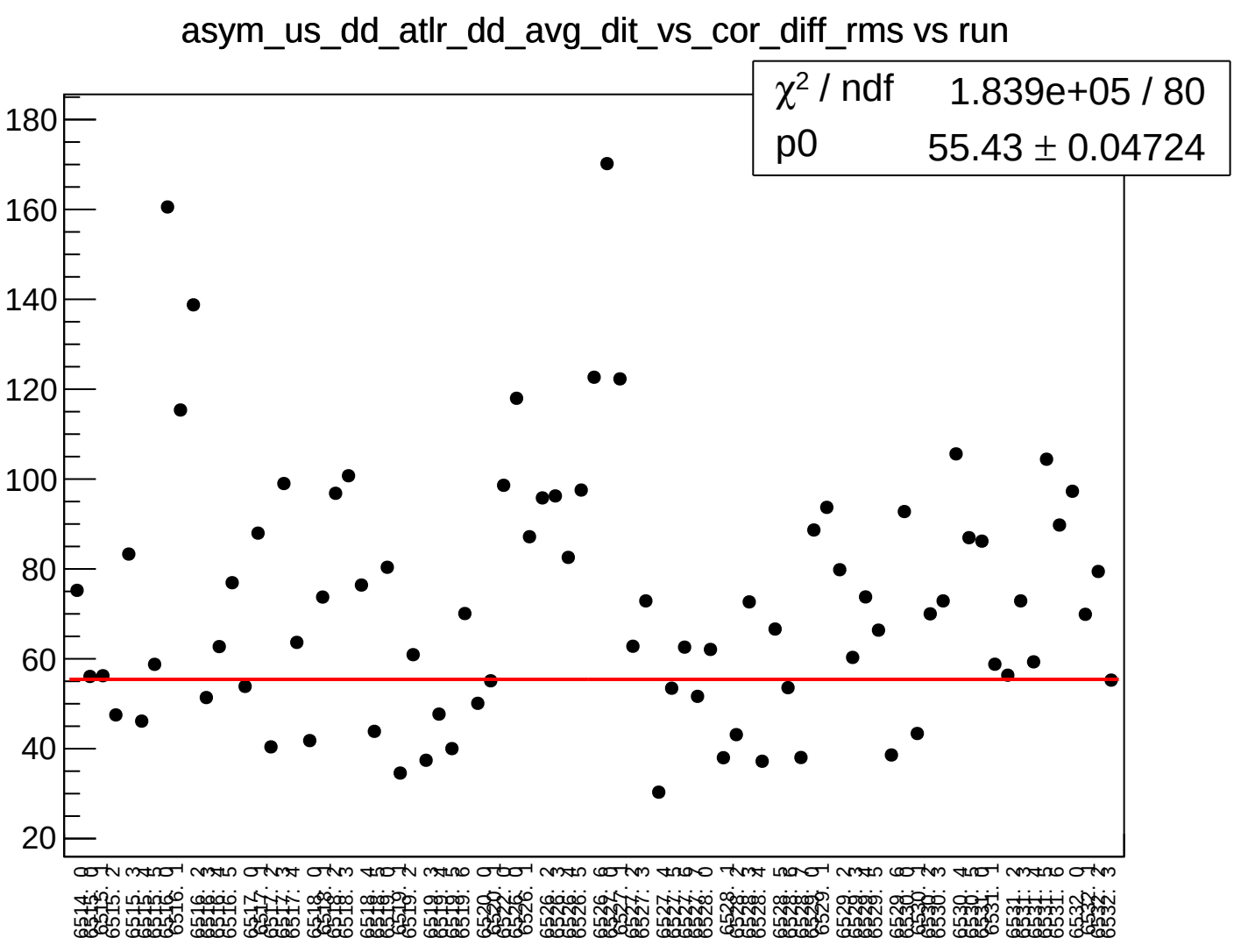

asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 412.7 / 80
p0 1944 ± 1.556
2020
2000
1980
1960
1940
1920
1900
1880
1860
1840

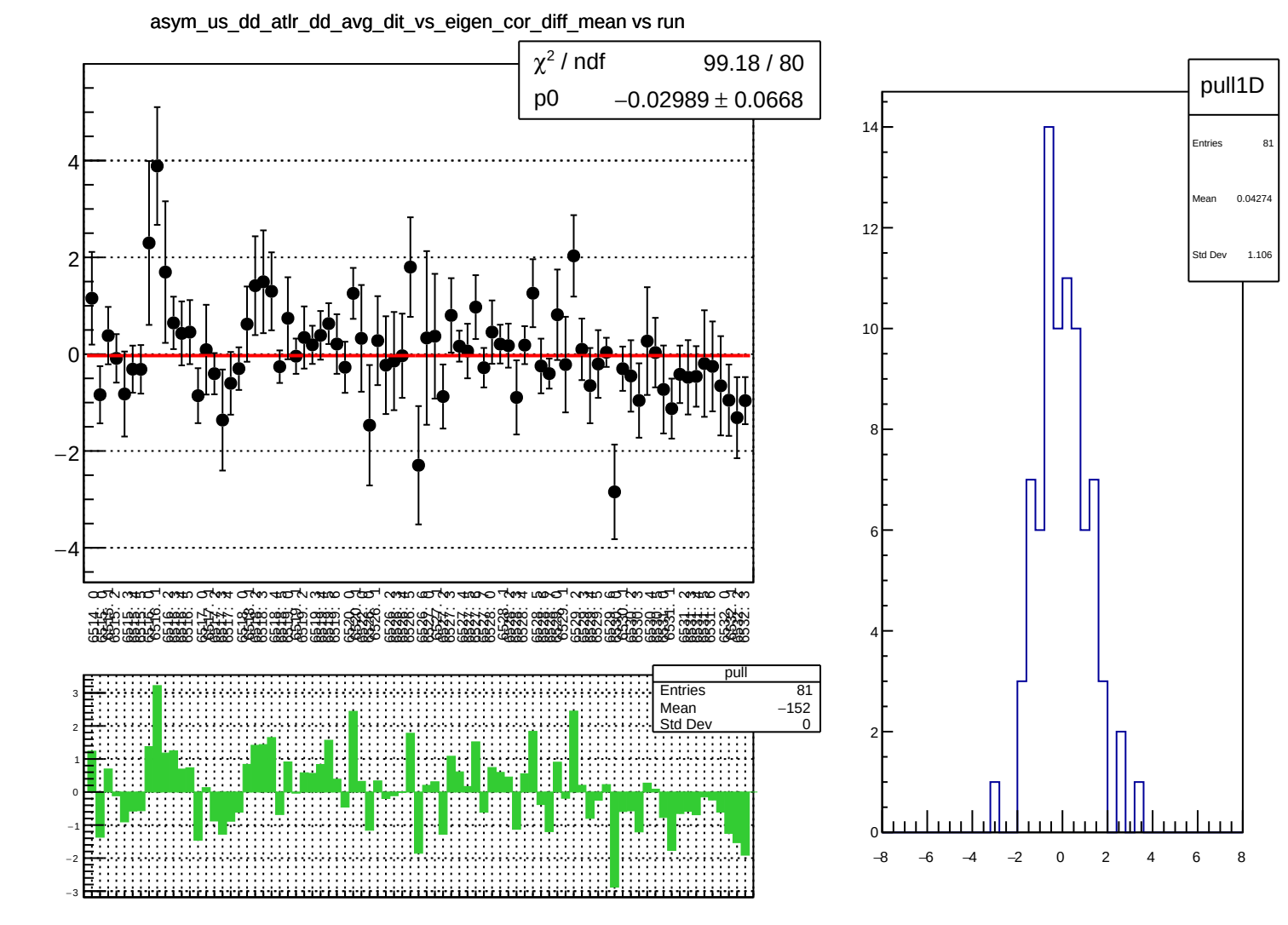

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 89.81 / 80
p0 1.319e−14 ± 1.855e−14
pull
Entries 81
Mean 26.74
Std Dev 0
pull1D
Entries 81
Mean 0.06465
Std Dev 1.051

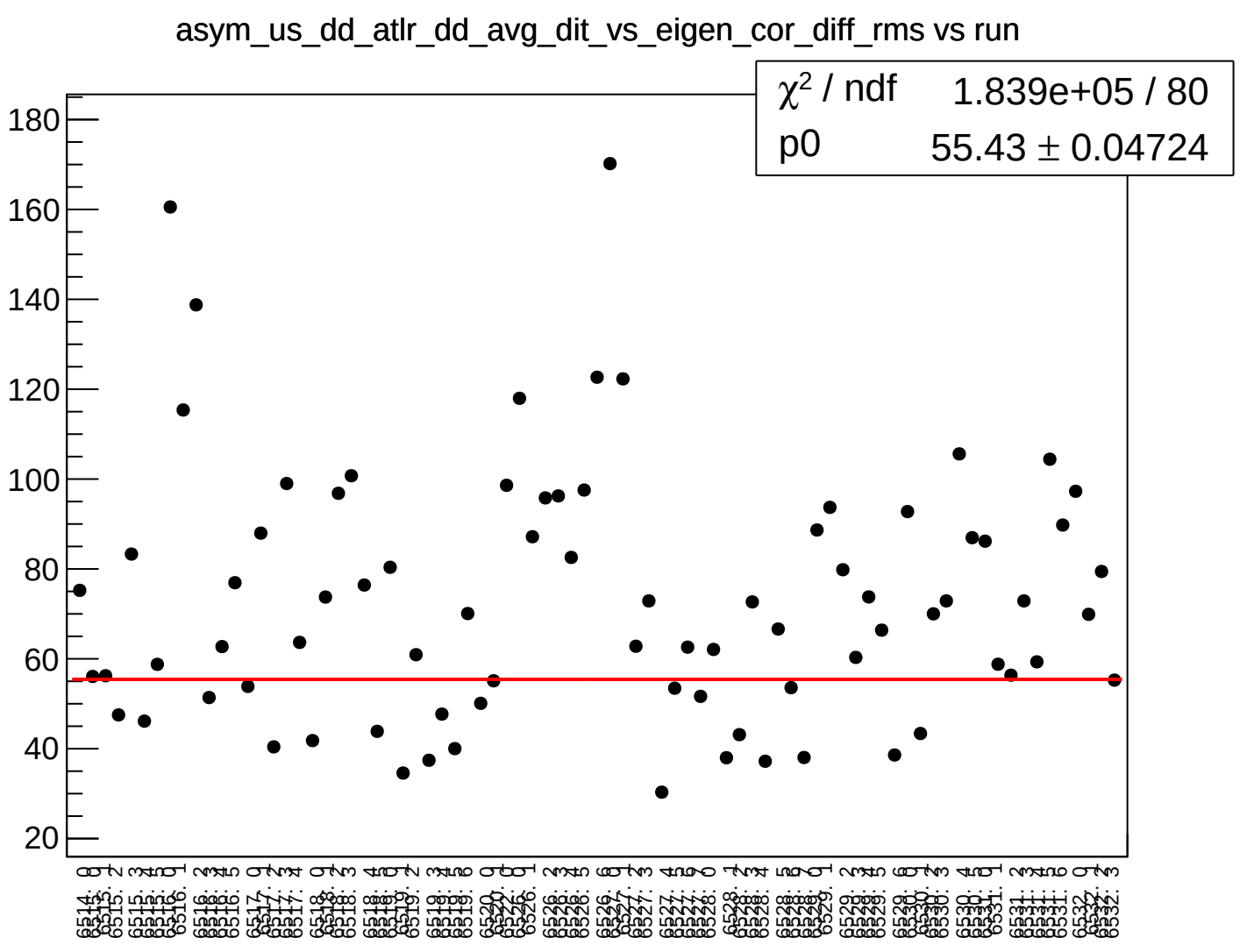

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.002e+06 / 80
p0 9.811e−12 ± 1.312e−14
2.5
2
1.5
1
0.5
0

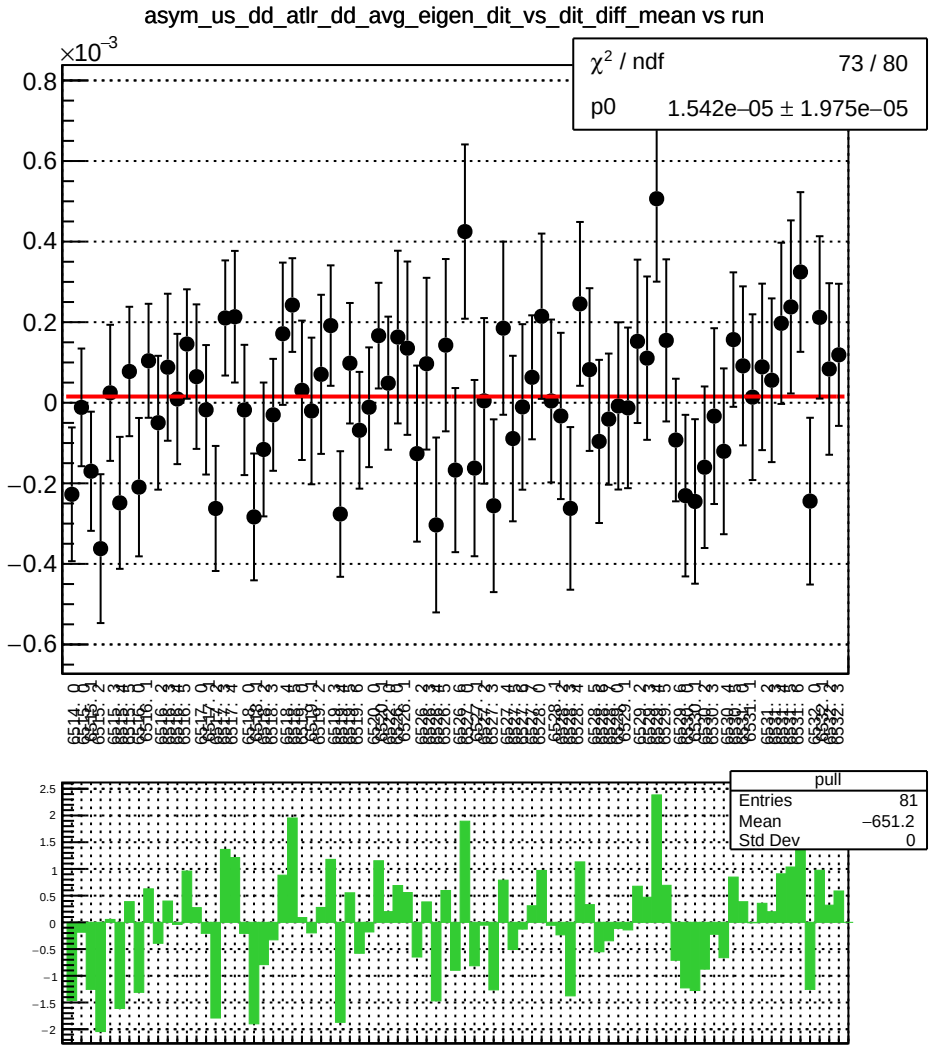

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 99.18 / 80
p0 −0.02989 ± 0.0668
pull
Entries 81
Mean −152
Std Dev 0

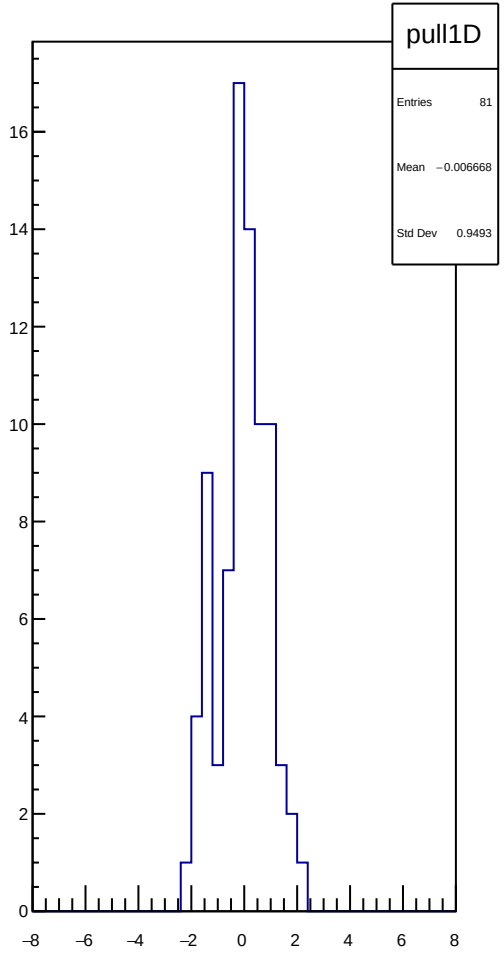

pull1D
Entries 81
Mean 0.04274
Std Dev 1.106

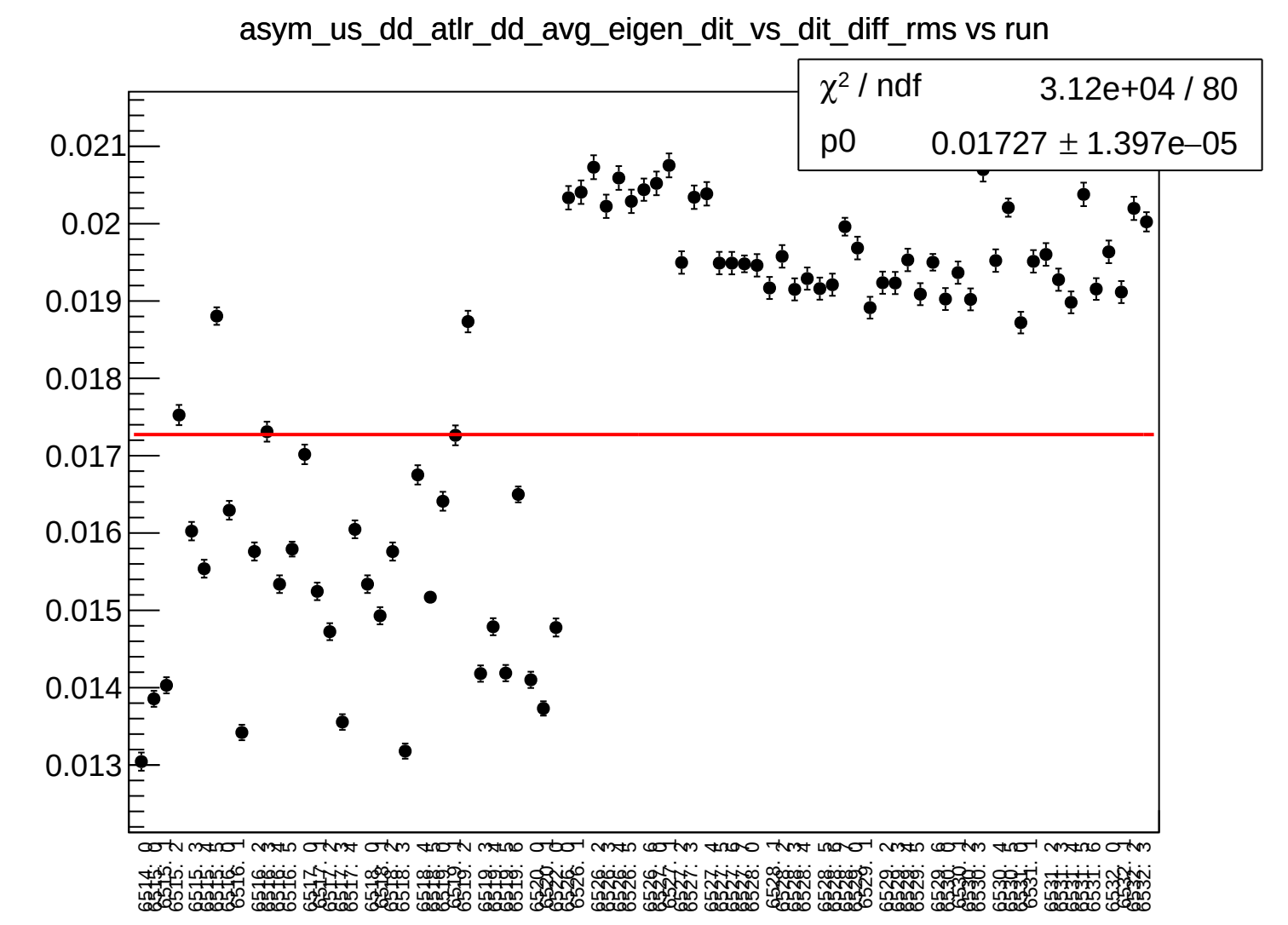

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.839e+05 / 80
p0 55.43 ± 0.04724
180
160
140
120
100
80
60
40
20

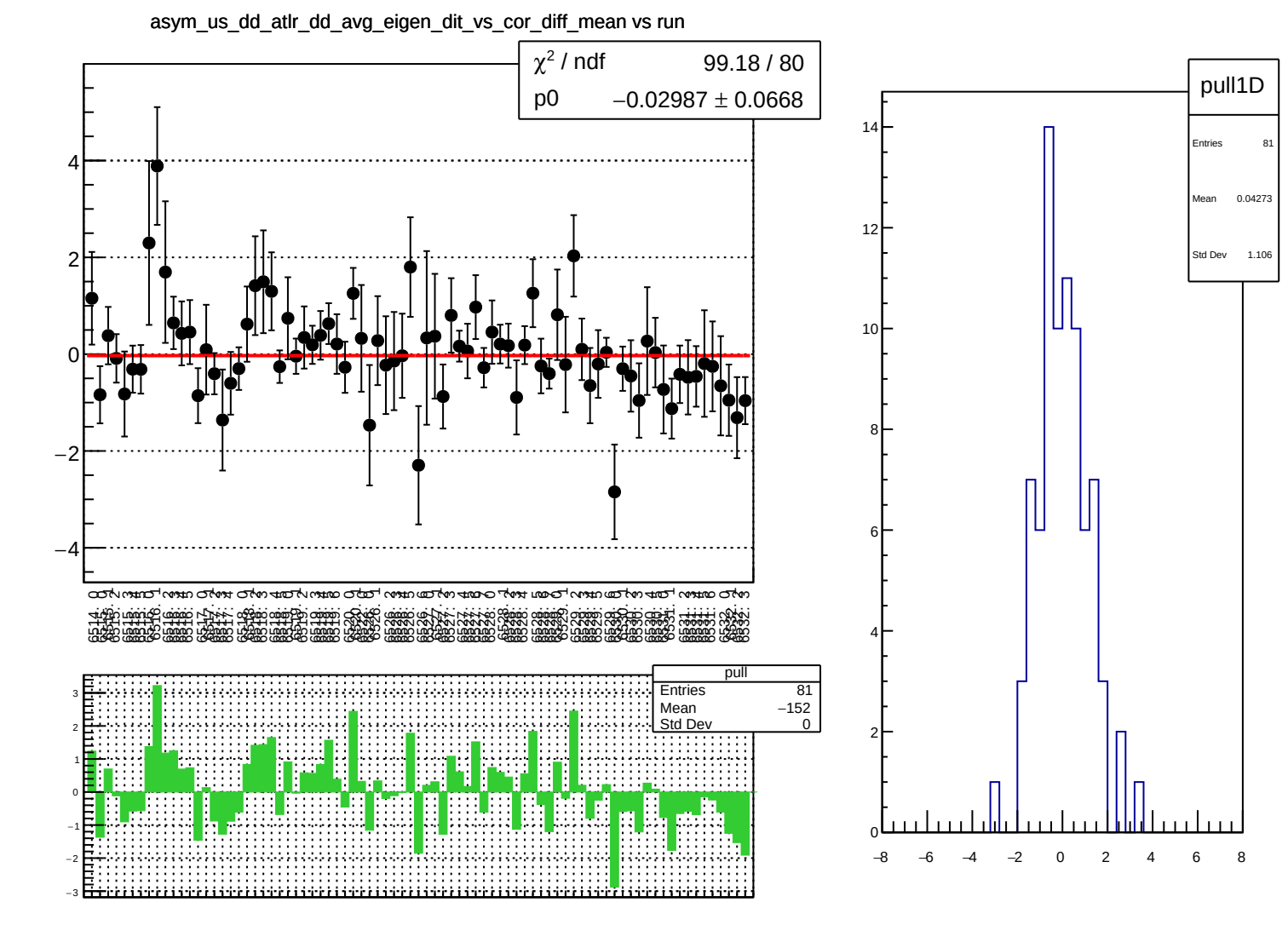

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.18 / 80
p0 −0.02989 ± 0.0668
pull
Entries 81
Mean −152
Std Dev 0
pull1D
Entries 81
Mean 0.04274
Std Dev 1.106

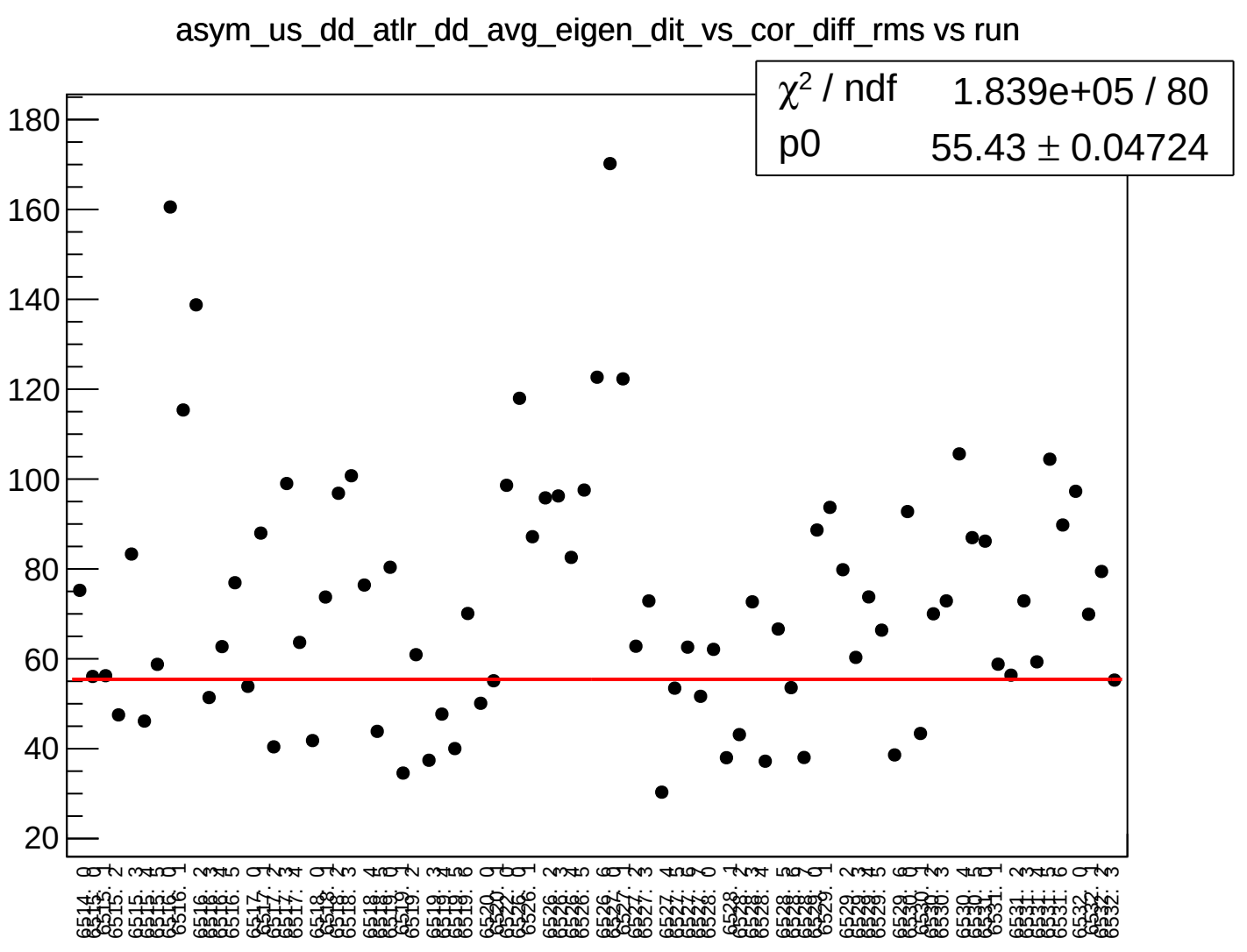

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.839e+05 / 80
p0 55.43 ± 0.04724
180
160
140
120
100
80
60
40
20

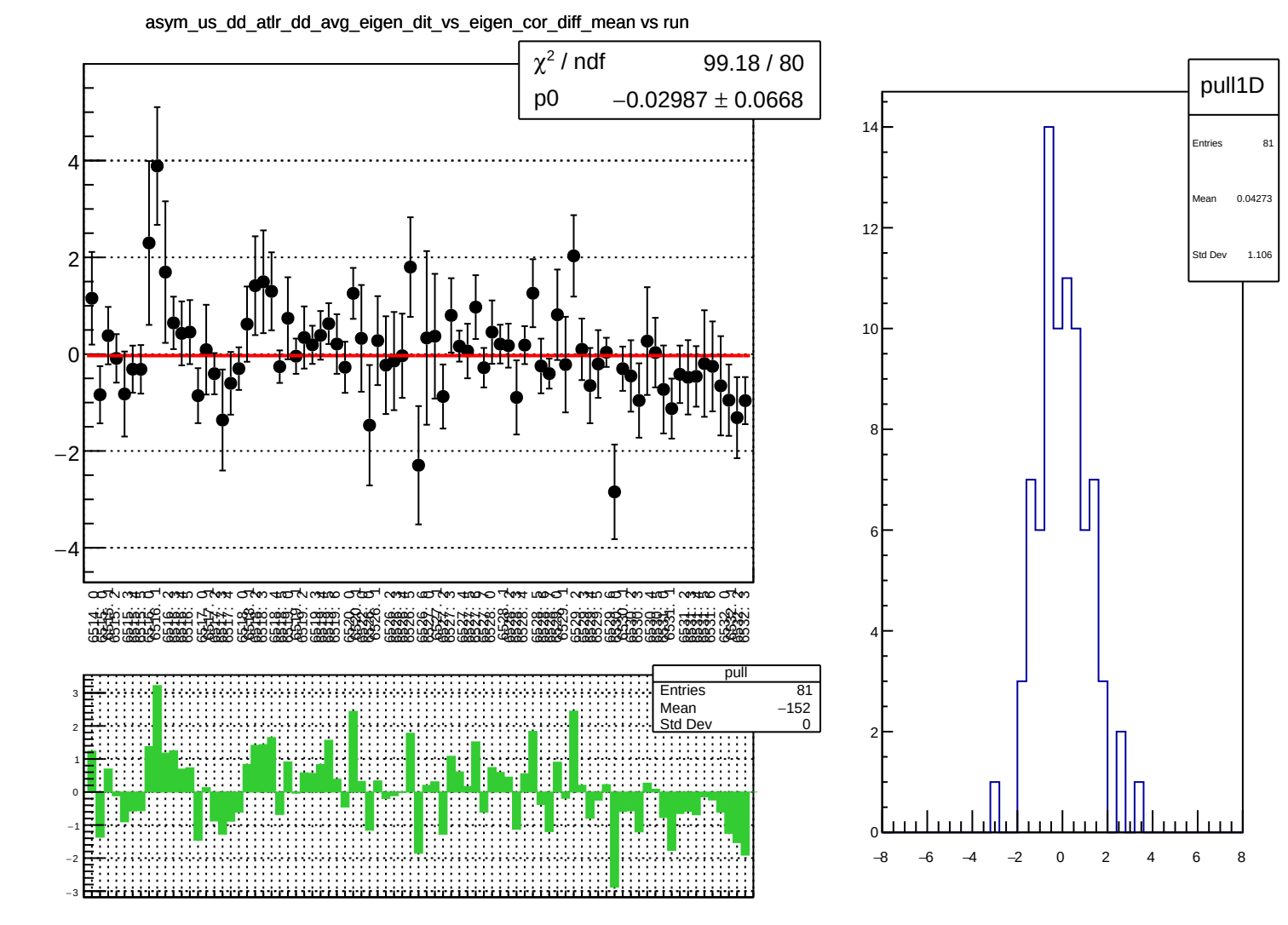

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73 / 80
p0 1.542e−05 ± 1.975e−05
pull
Entries 81
Mean −651.2
Std Dev 0

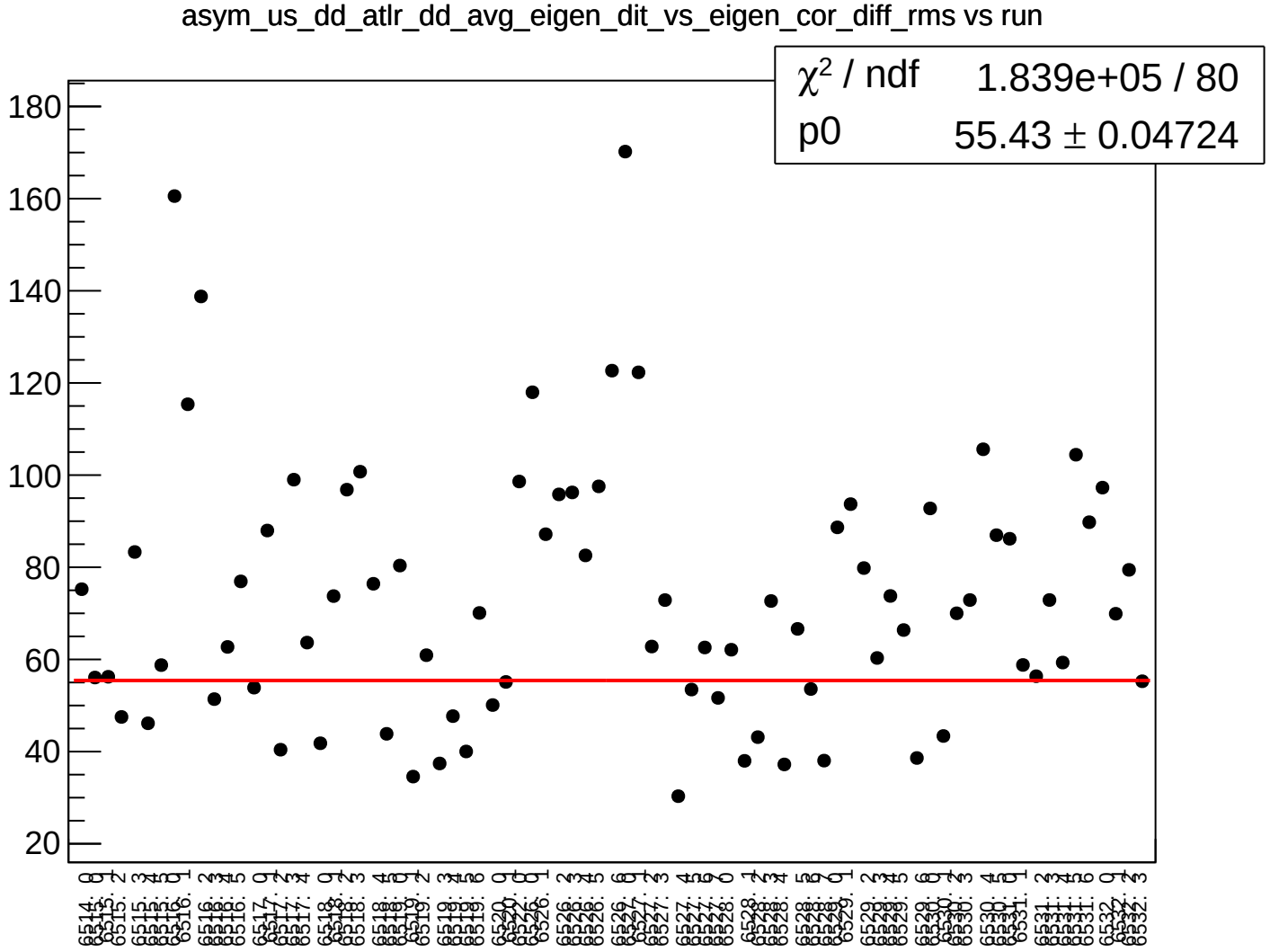

pull1D
Entries 81
Mean −0.006668
Std Dev 0.9493

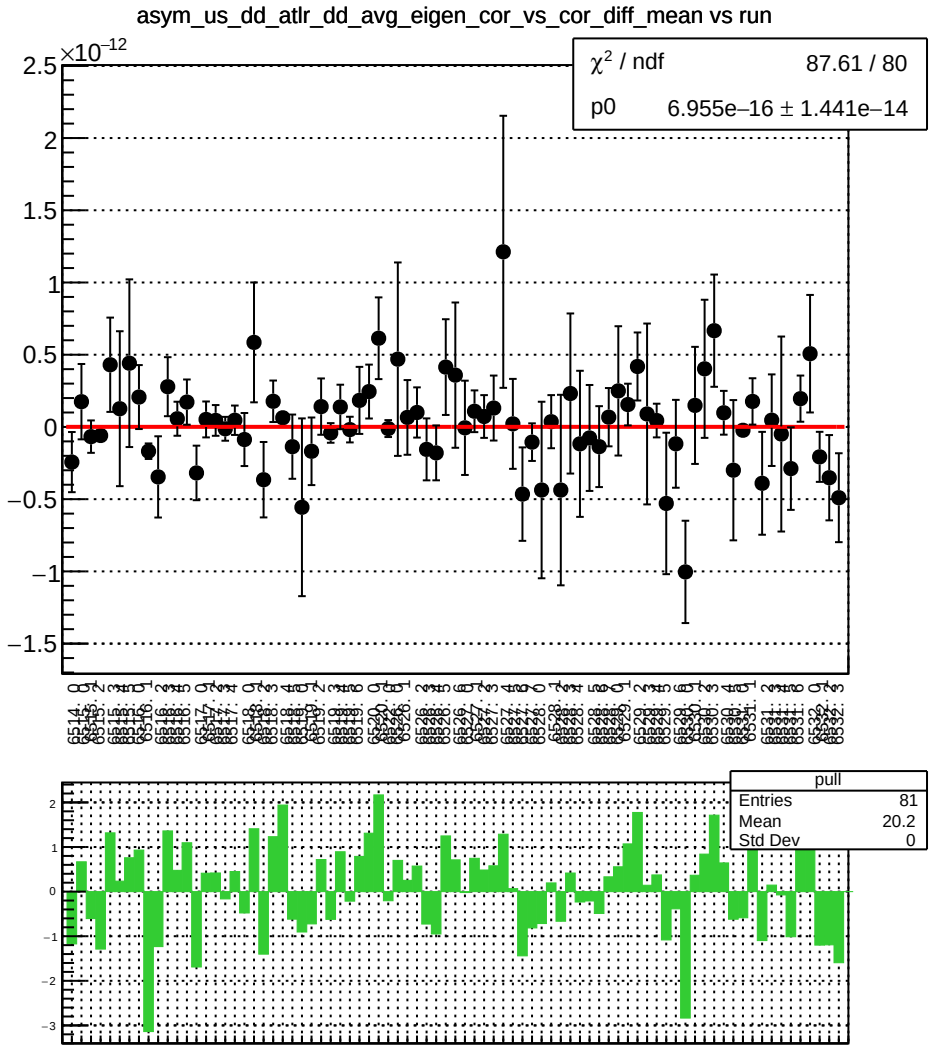

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.12e+04 / 80
p0 0.01727 ± 1.397e−05
0.021
0.02
0.019
0.018
0.017
0.016
0.015
0.014
0.013

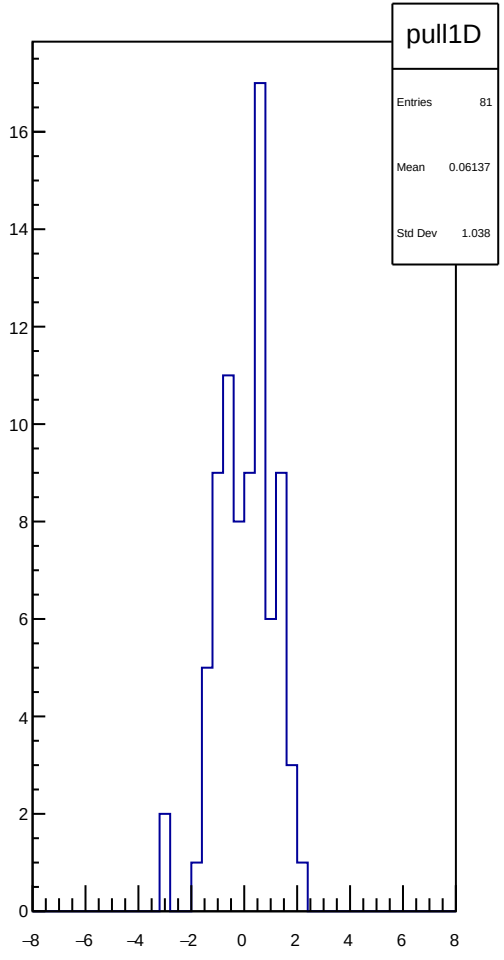

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.18 / 80
p0 −0.02987 ± 0.0668
pull
Entries 81
Mean −152
Std Dev 0
pull1D
Entries 81
Mean 0.04273
Std Dev 1.106

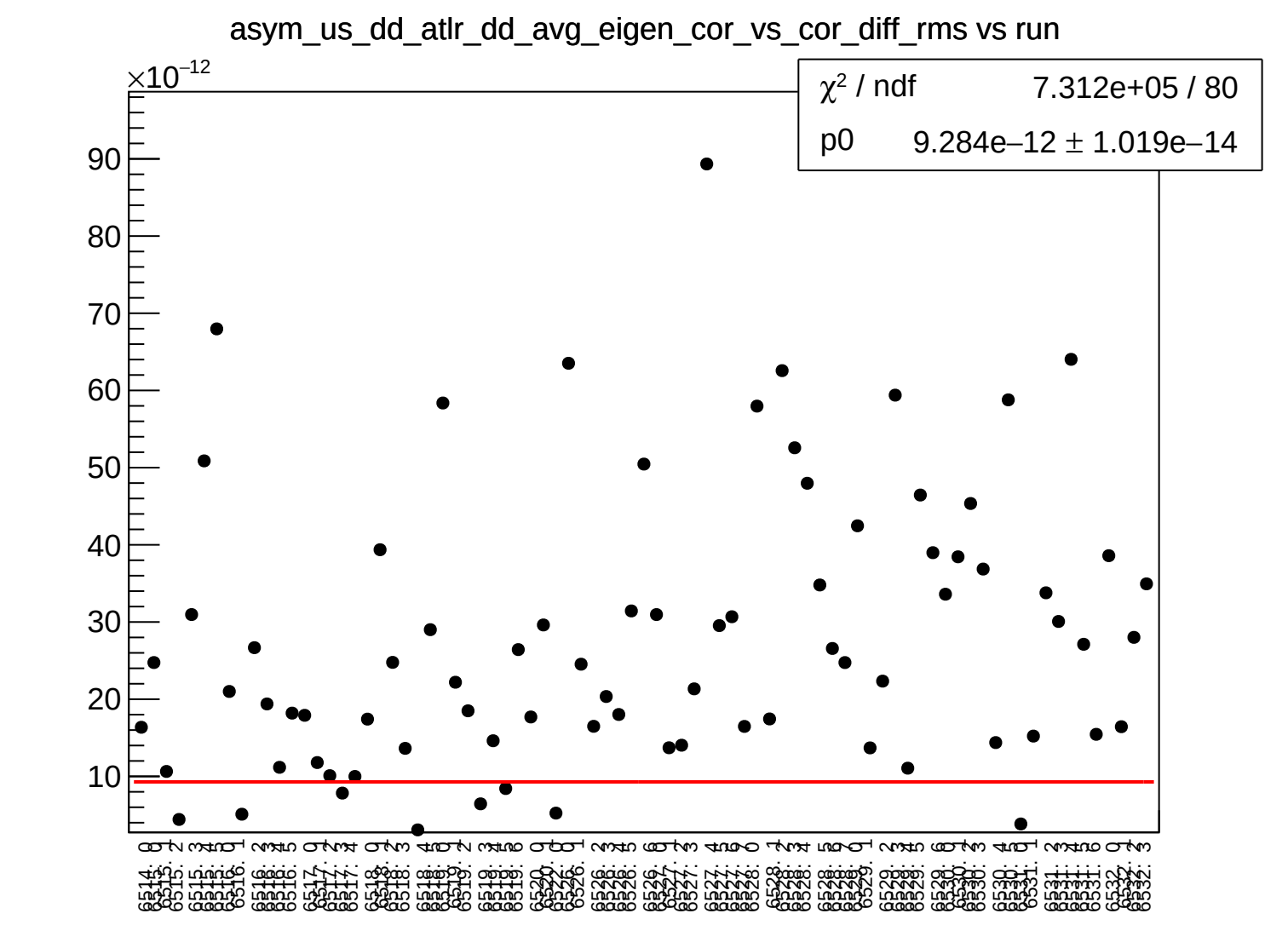

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.839e+05 / 80
p0 55.43 ± 0.04724
180
160
140
120
100
80
60
40
20

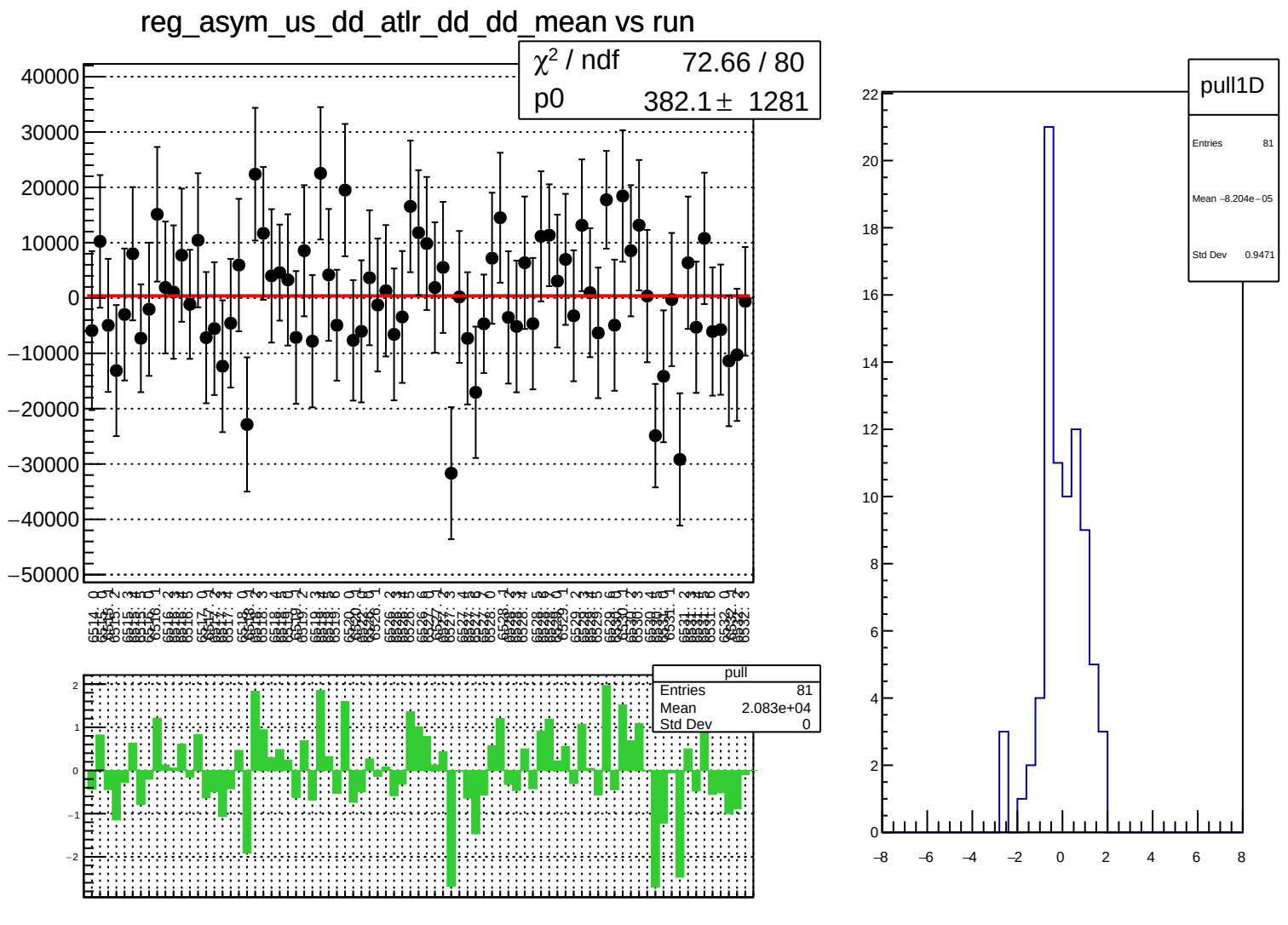

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.18 / 80
p0 −0.02987 ± 0.0668
pull
Entries 81
Mean −152
Std Dev 0
pull1D
Entries 81
Mean 0.04273
Std Dev 1.106

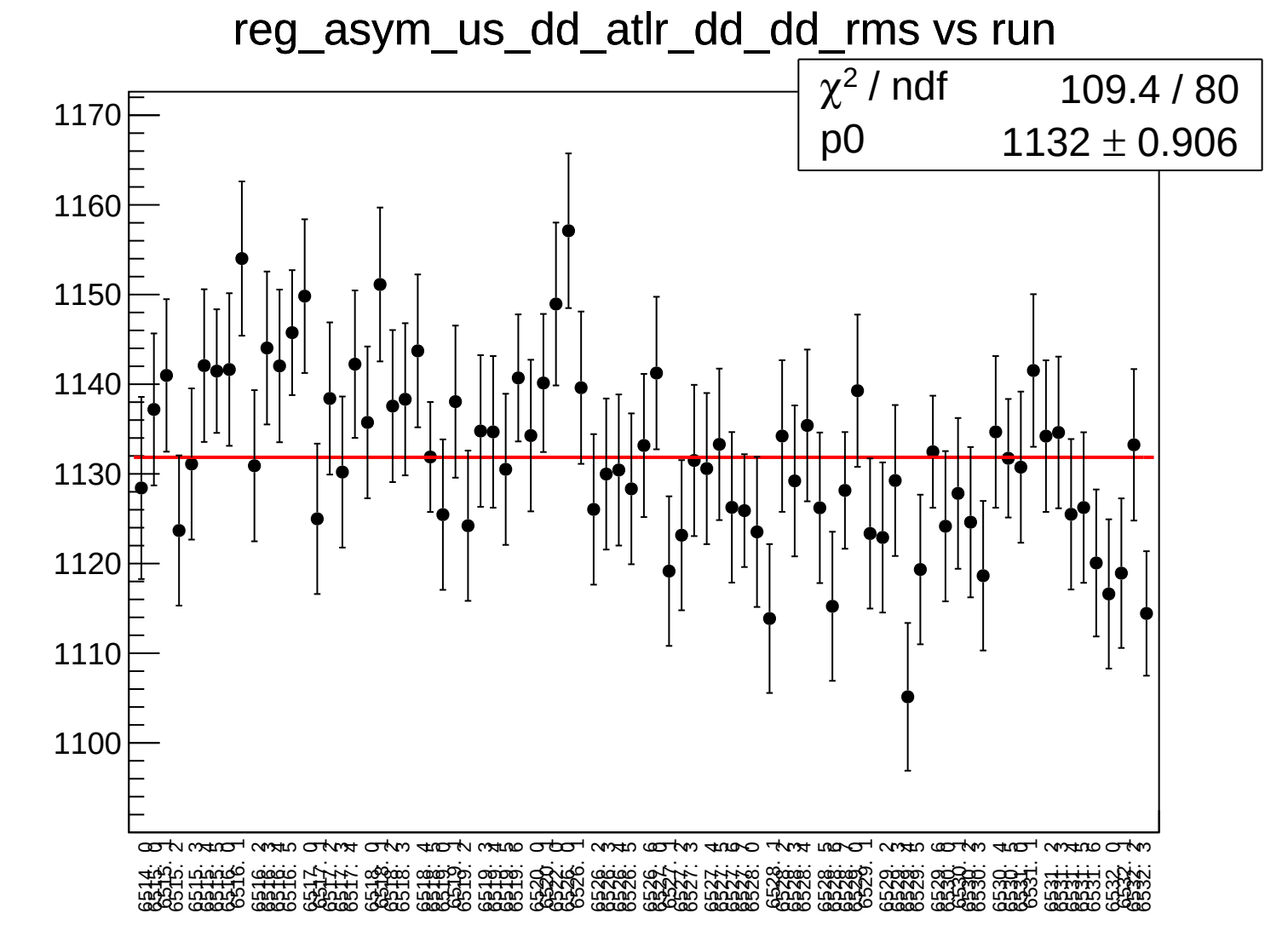

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.839e+05 / 80
p0 55.43 ± 0.04724
180
160
140
120
100
80
60
40
20

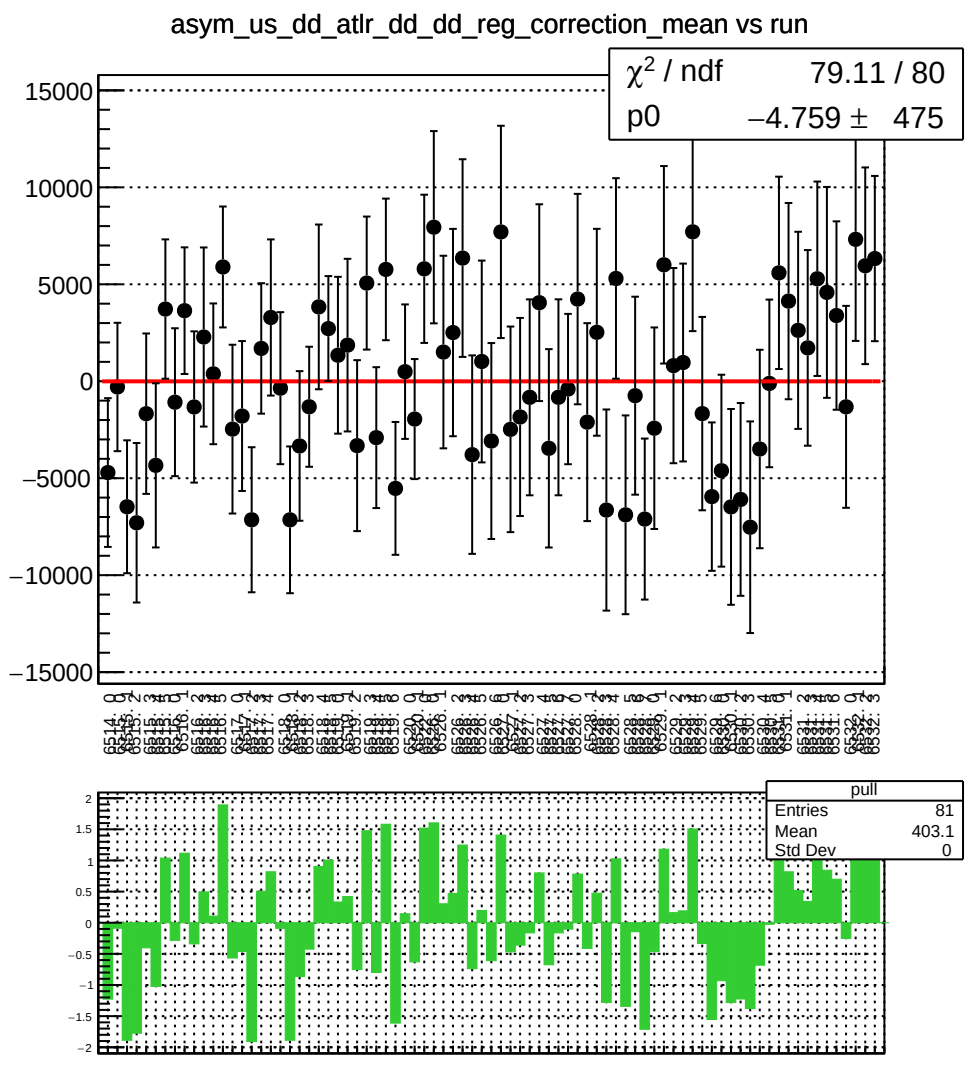

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.61 / 80
p0 6.955e−16 ± 1.441e−14
pull
Entries 81
Mean 20.2
Std Dev 0

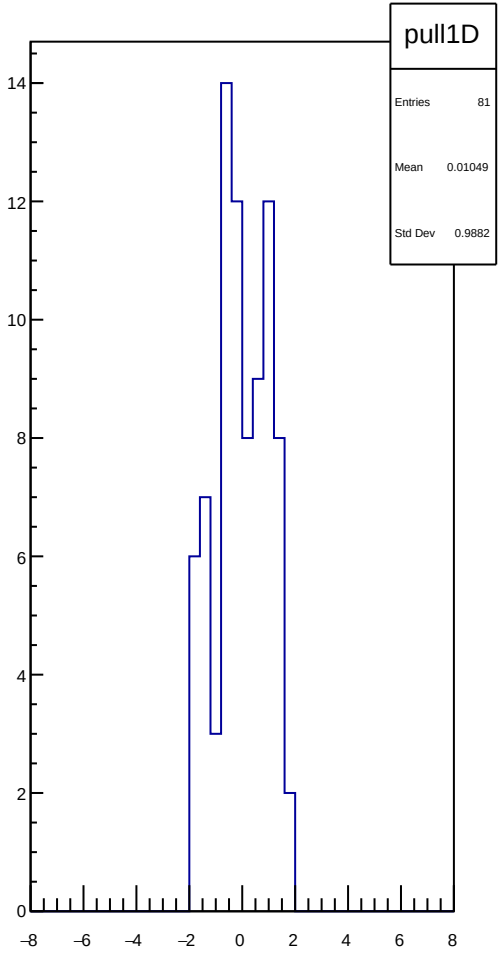

pull1D
Entries 81
Mean 0.06137
Std Dev 1.038

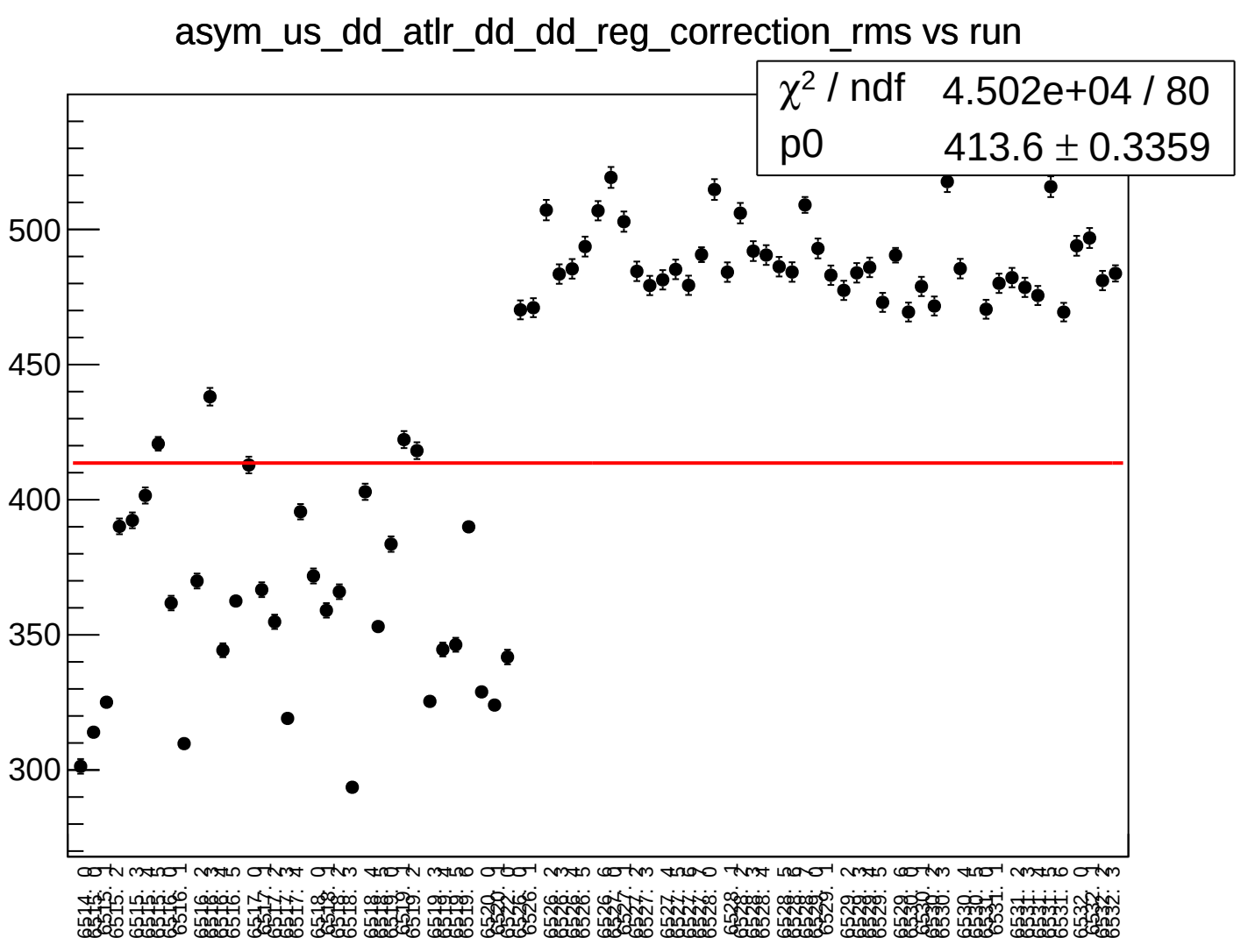

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.312e+05 / 80
p0 9.284e−12 ± 1.019e−14
90
80
70
60
50
40
30
20
10

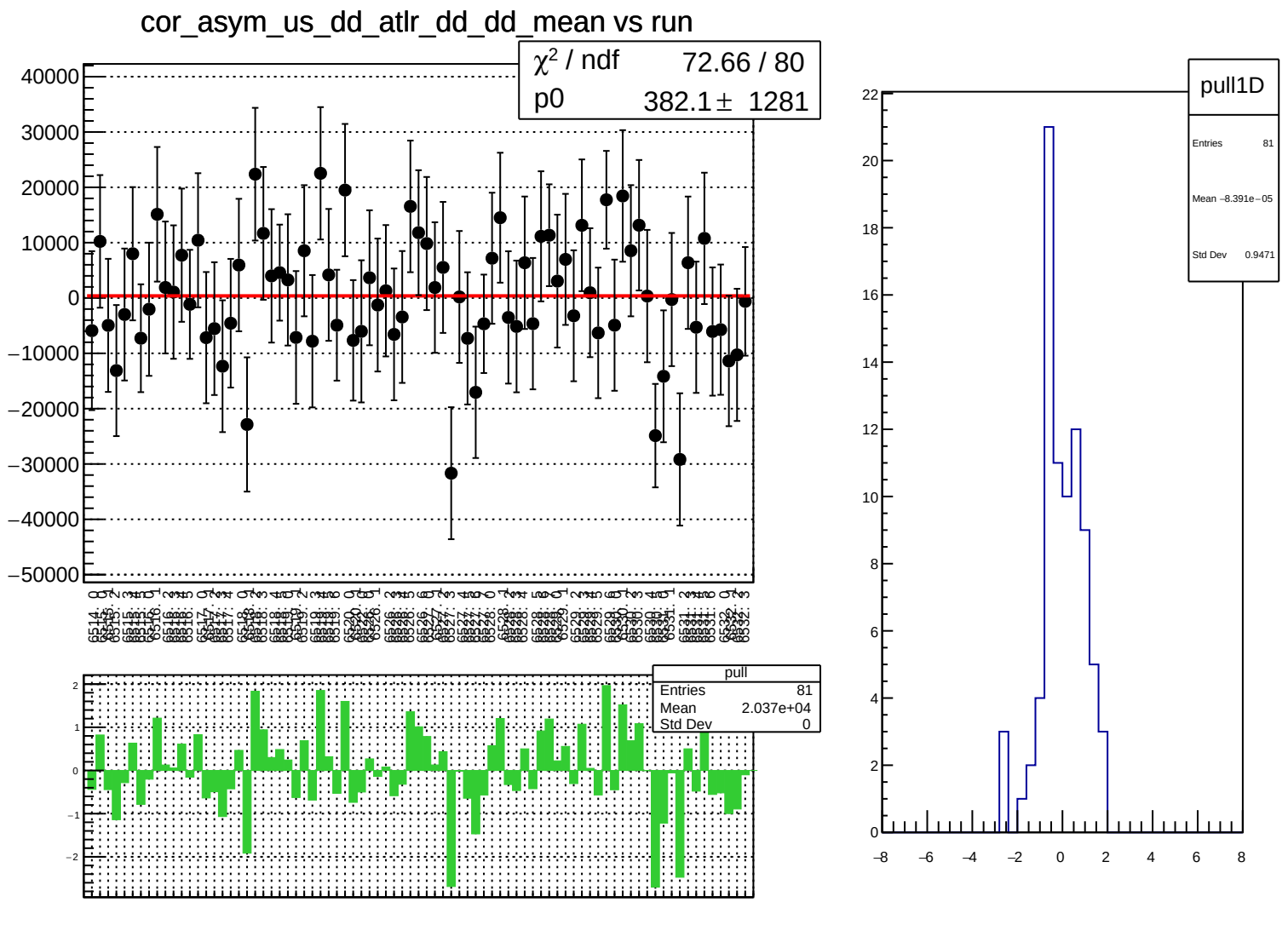

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 72.66 / 80
p0 382.1 ± 1281
pull
Entries 81
Mean 2.083e+04
Std Dev 0
pull1D
Entries 81
Mean −8.204e−05
Std Dev 0.9471

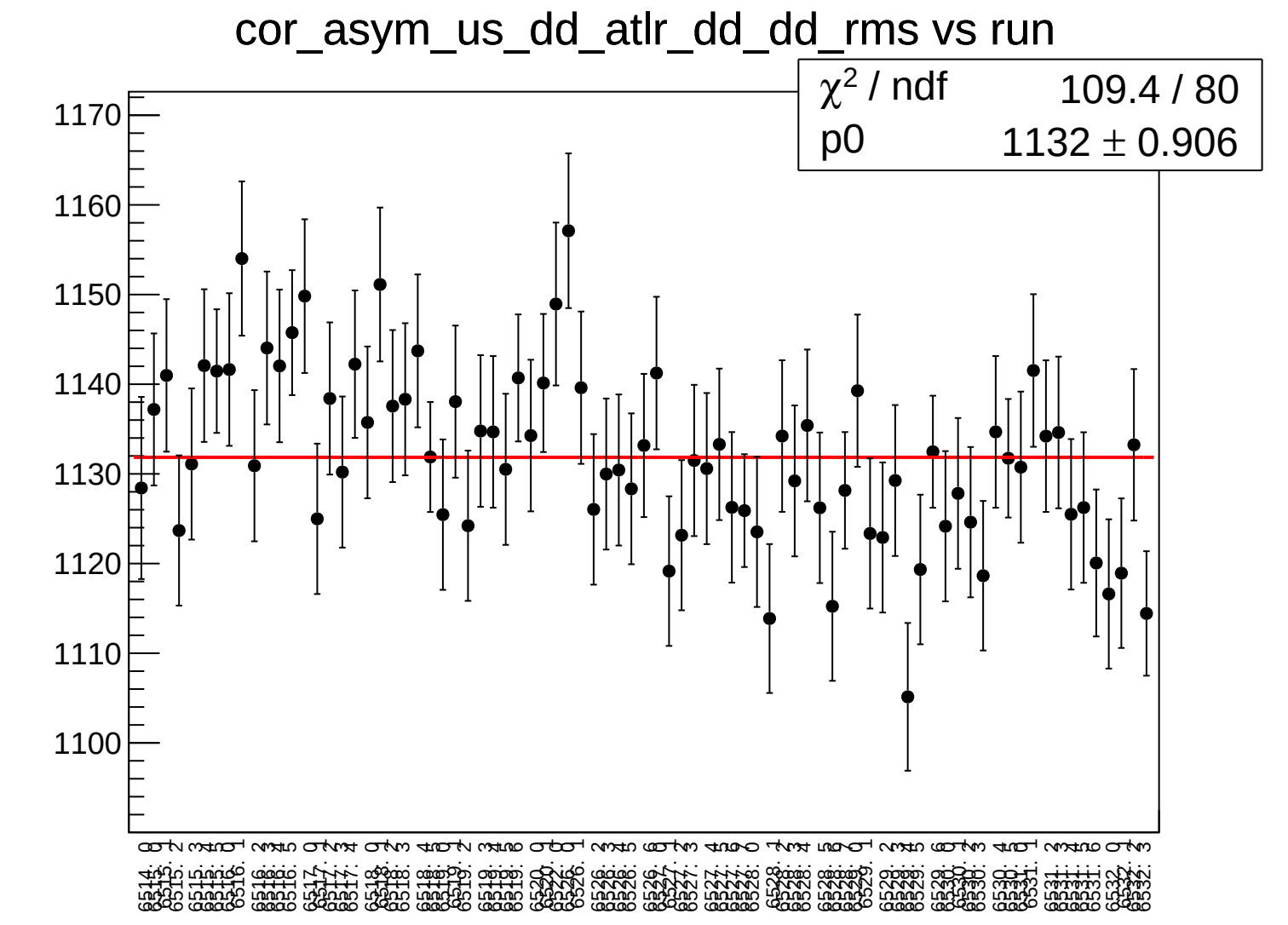

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 109.4 / 80
p0 1132 ± 0.906
1170
1160
1150
1140
1130
1120
1110
1100

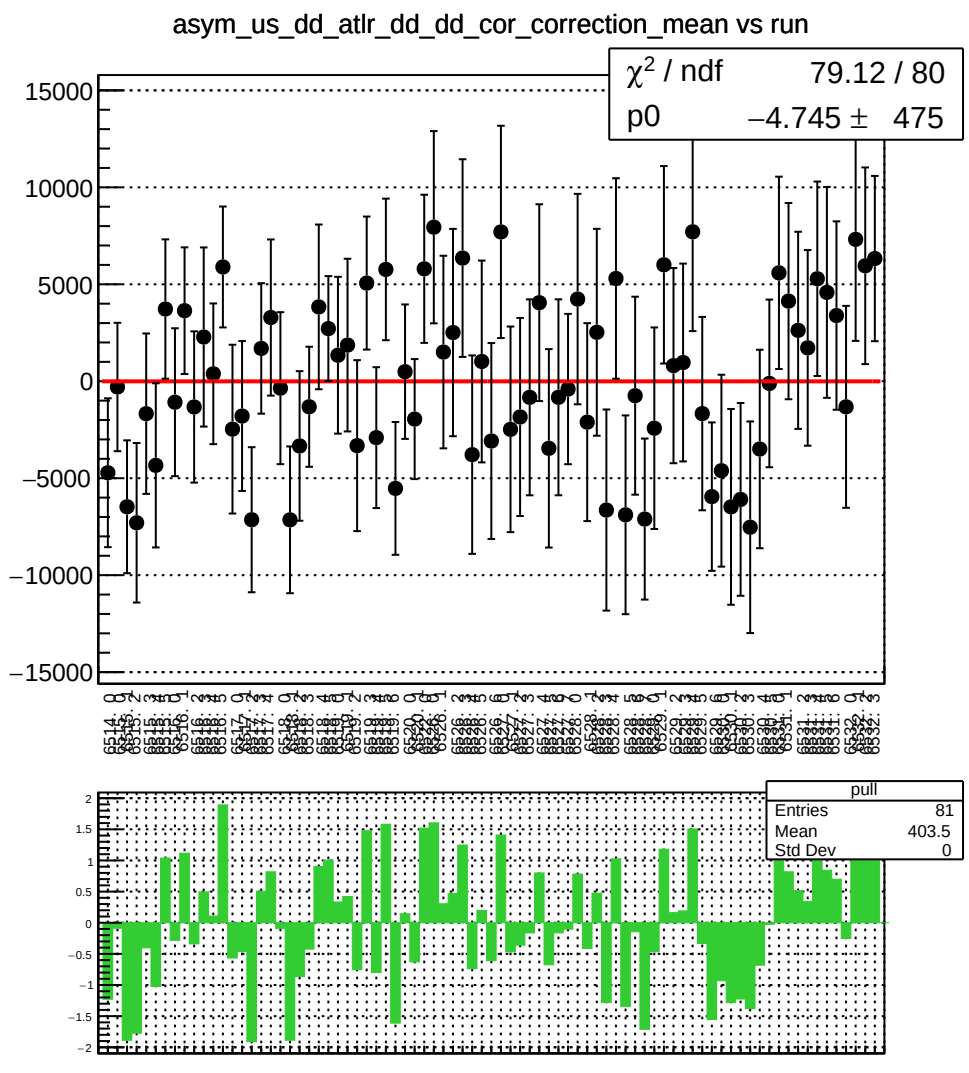

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 79.11 / 80
p0 −4.759 ± 475
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean 403.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

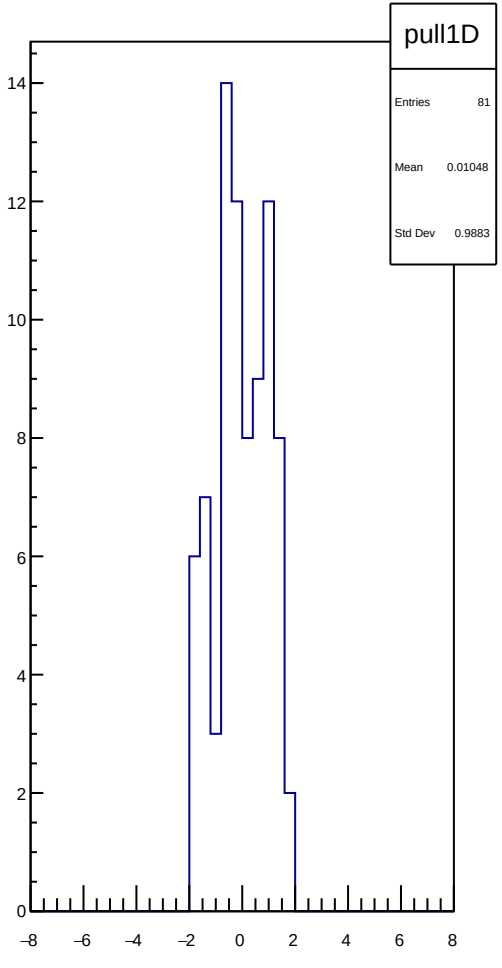

pull1D
Entries 81
Mean 0.01049
Std Dev 0.9882
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

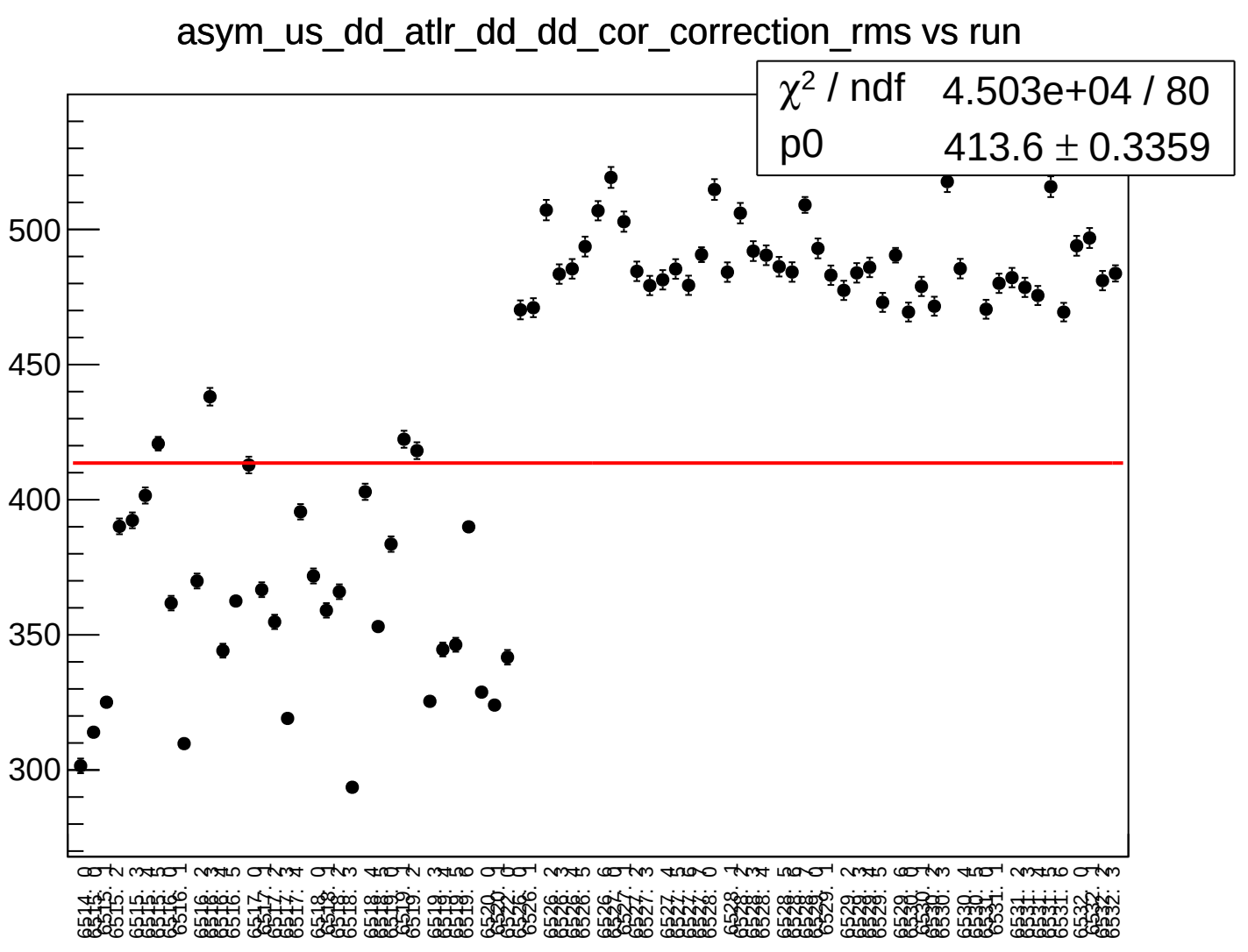

asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 4.502e+04 / 80
p0 413.6 ± 0.3359
500
450
400
350
300

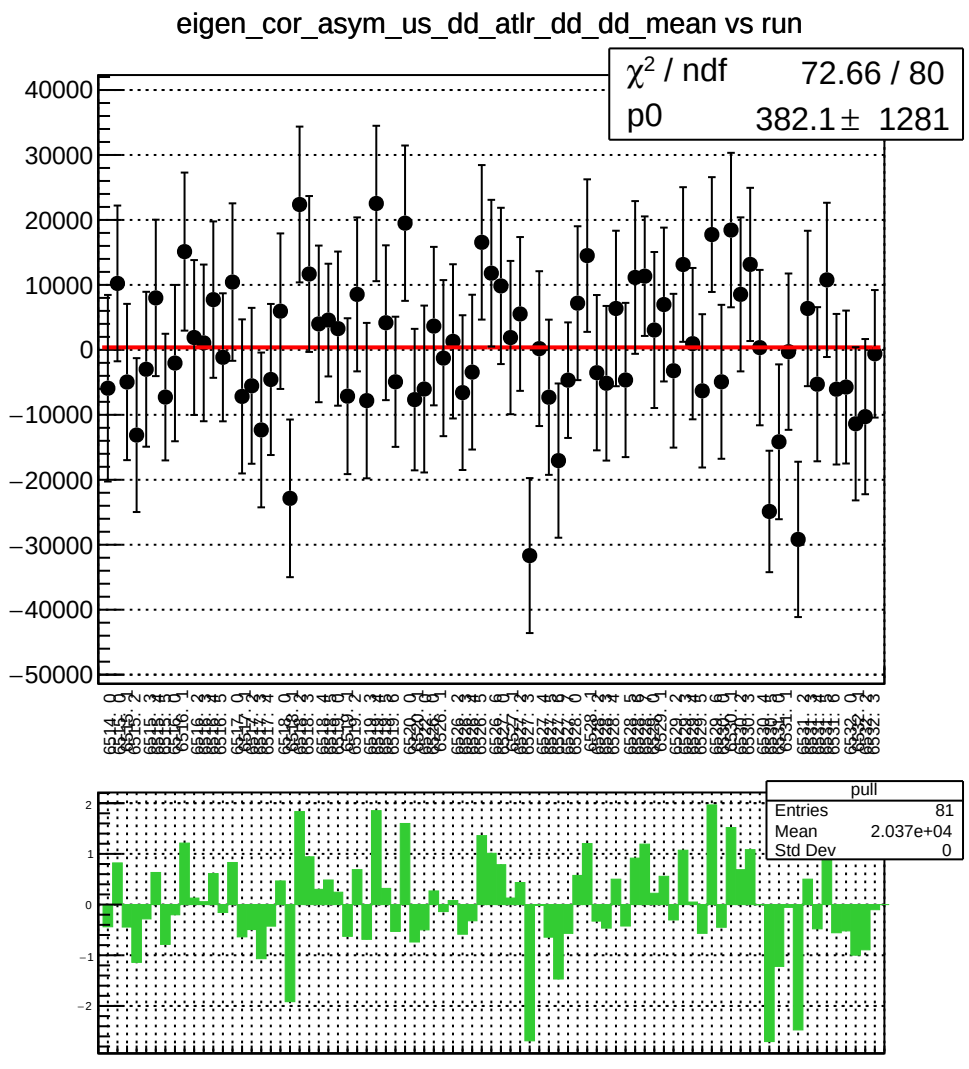

cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 72.66 / 80
p0 382.1 ± 1281
pull
Entries 81
Mean 2.037e+04
Std Dev 0
pull1D
Entries 81
Mean −8.391e−05
Std Dev 0.9471

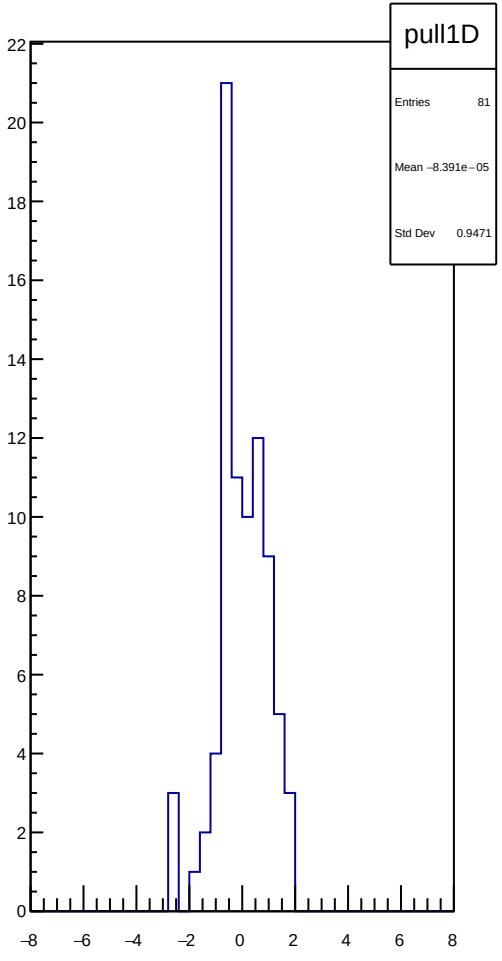

cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 109.4 / 80
p0 1132 ± 0.906
1170
1160
1150
1140
1130
1120
1110
1100

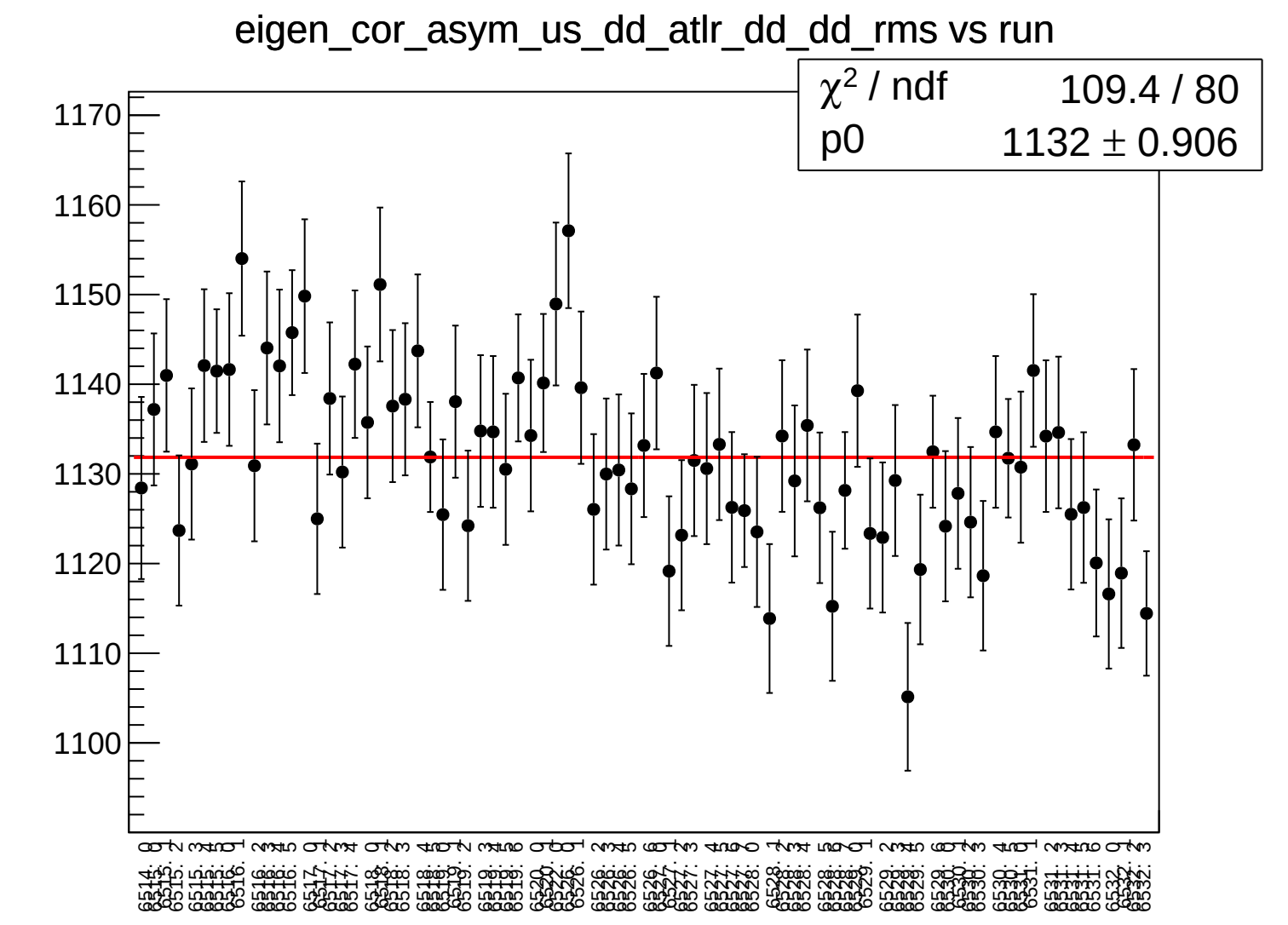

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 79.12 / 80
p0 −4.745 ± 475
pull
Entries 81
Mean 403.5
Std Dev 0

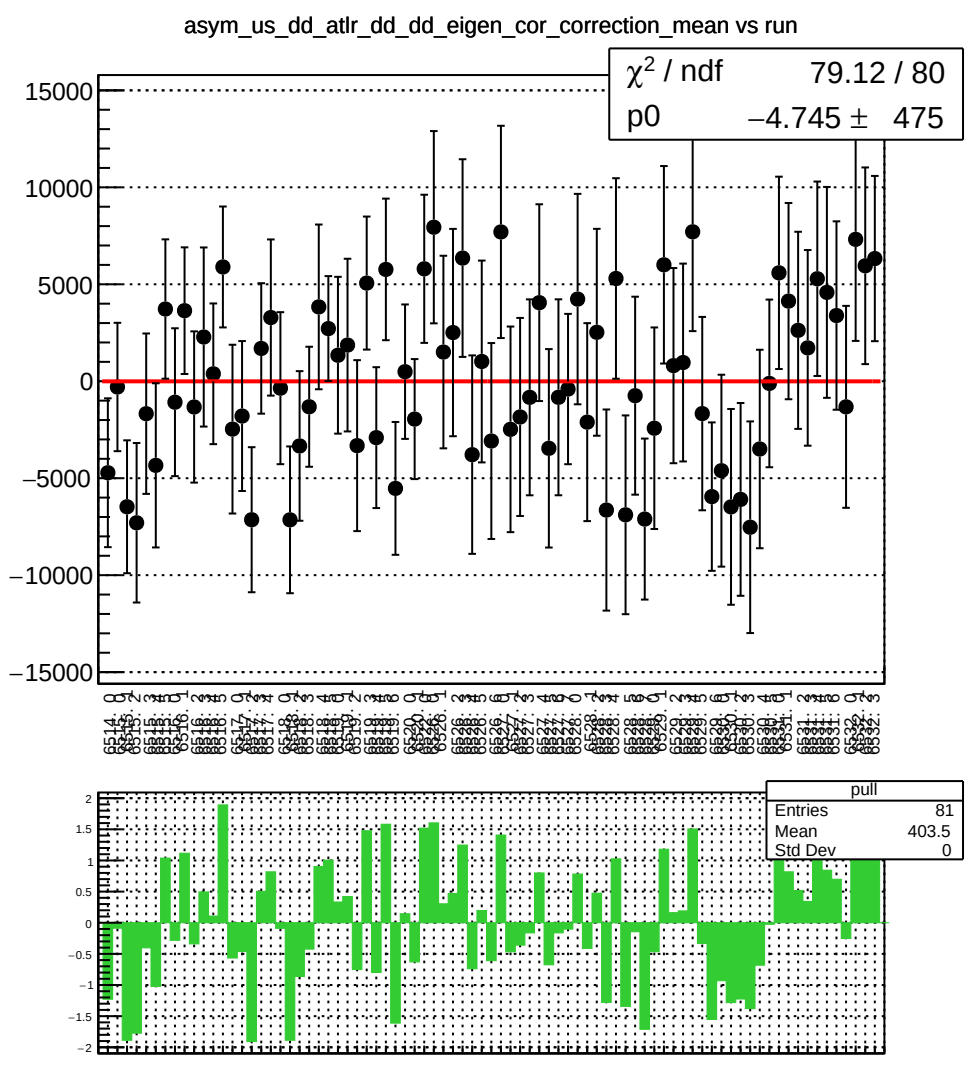

pull1D
Entries 81
Mean 0.01048
Std Dev 0.9883

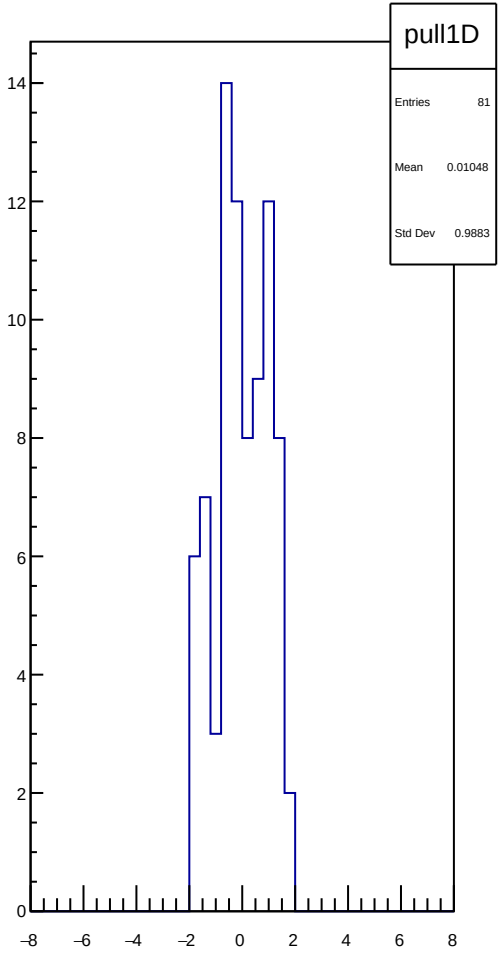

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 4.503e+04 / 80
p0 413.6 ± 0.3359
500
450
400
350
300

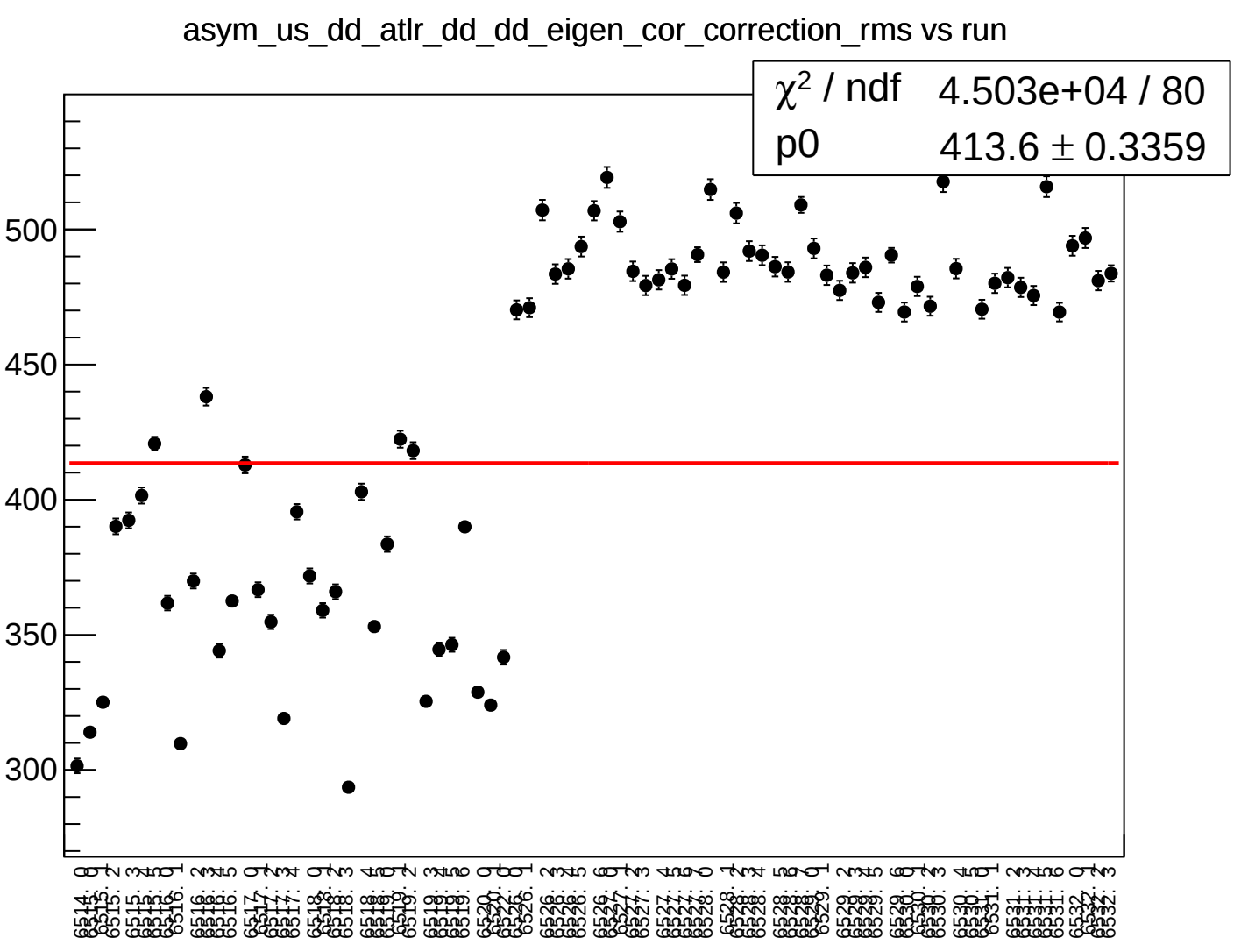

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 72.66 / 80
p0 382.1 ± 1281
pull
Entries 81
Mean 2.037e+04
Std Dev 0

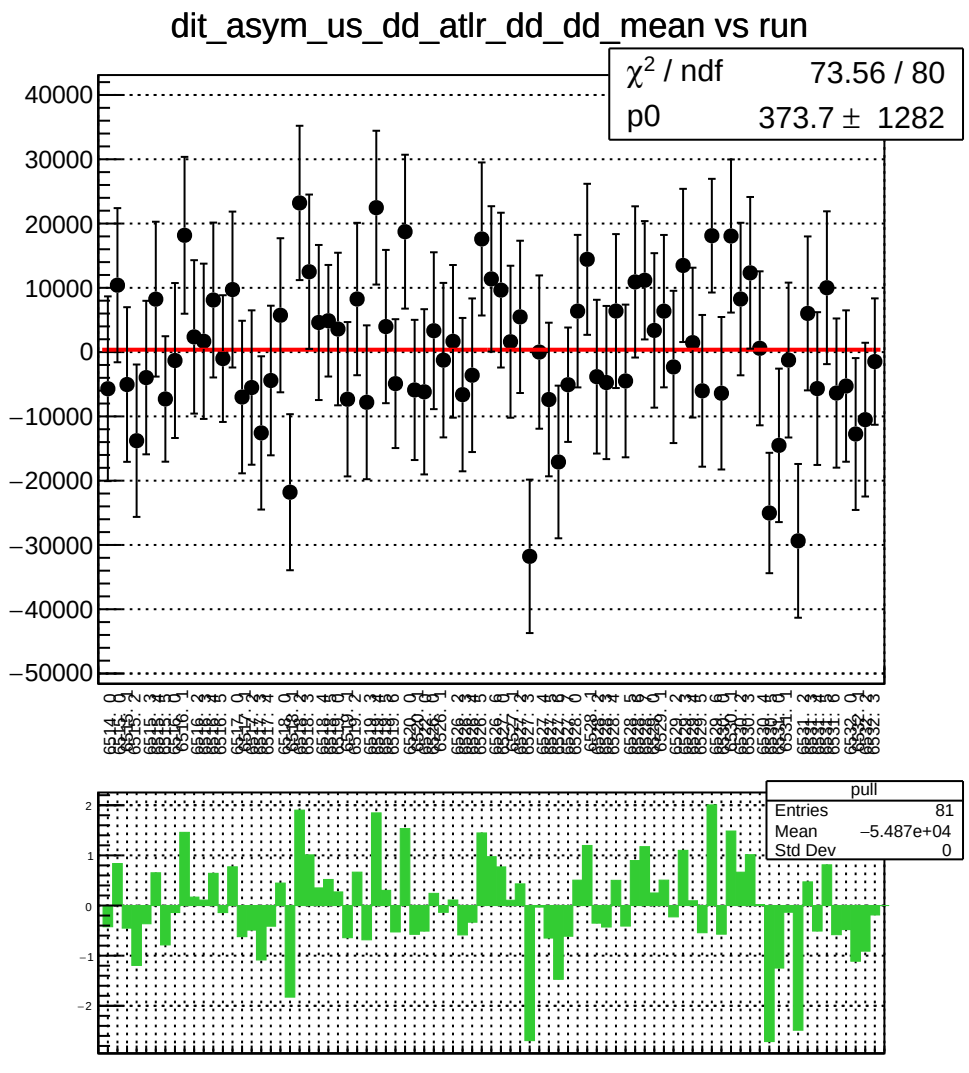

pull1D
Entries 81
Mean −8.391e−05
Std Dev 0.9471

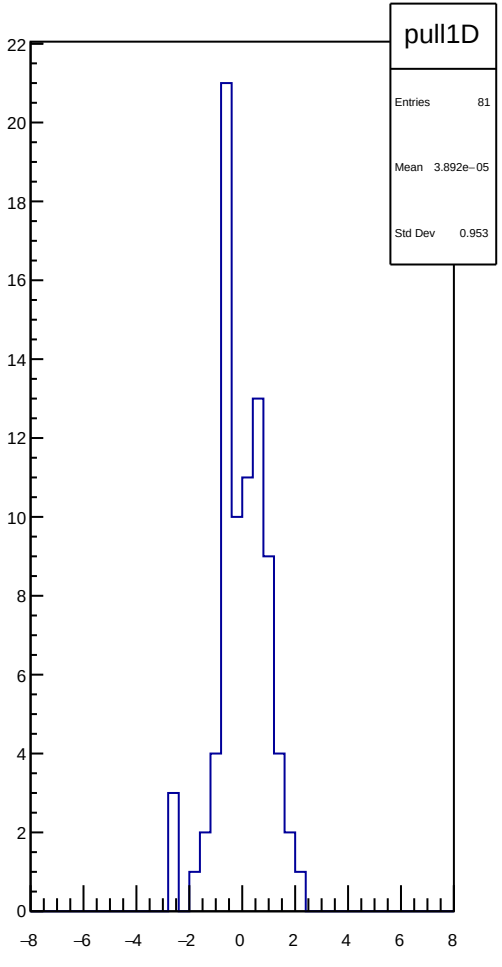

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 109.4 / 80
p0 1132 ± 0.906
1170
1160
1150
1140
1130
1120
1110
1100

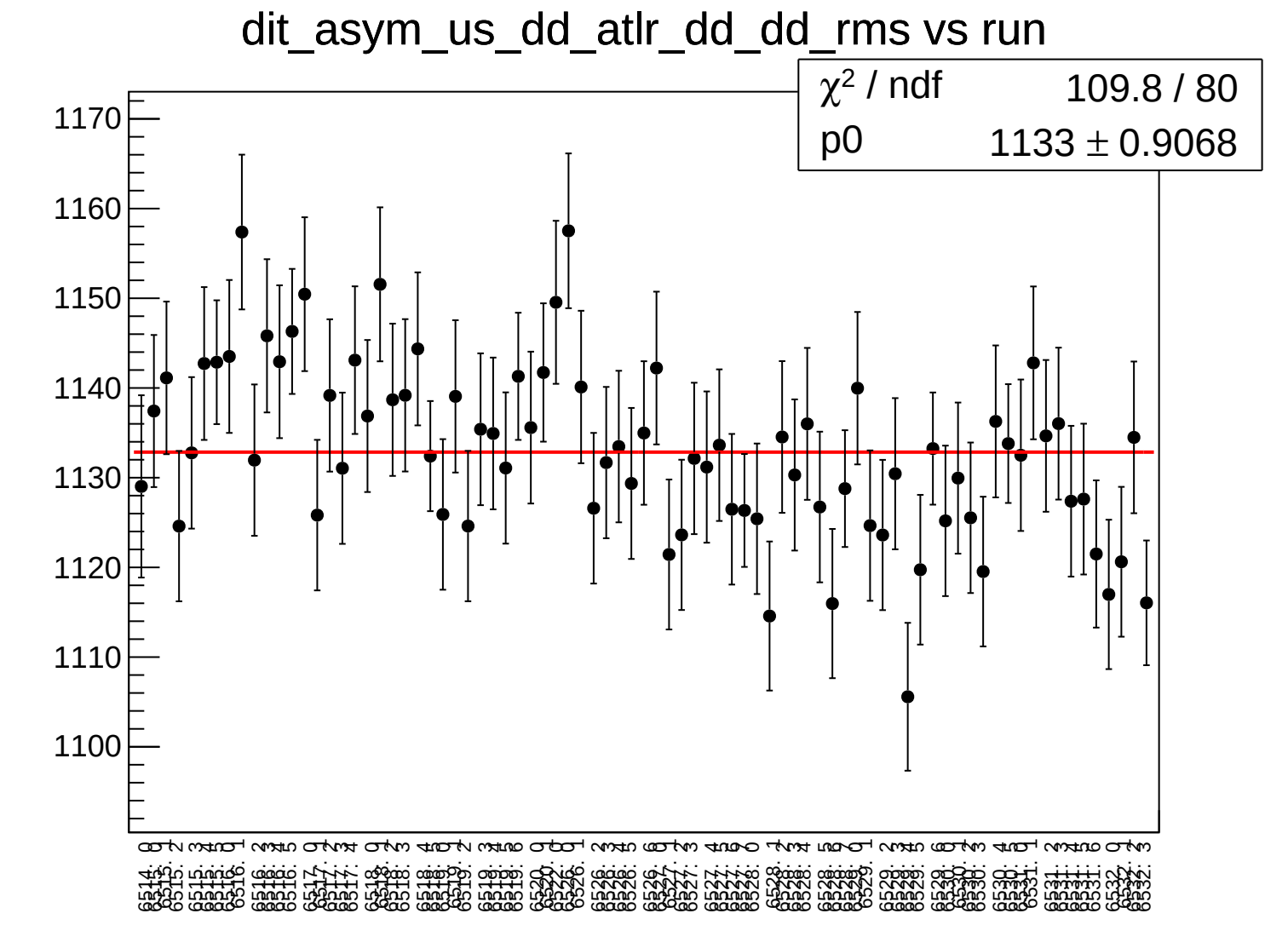

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 79.12 / 80
p0 −4.745 ± 475
pull
Entries 81
Mean 403.5
Std Dev 0

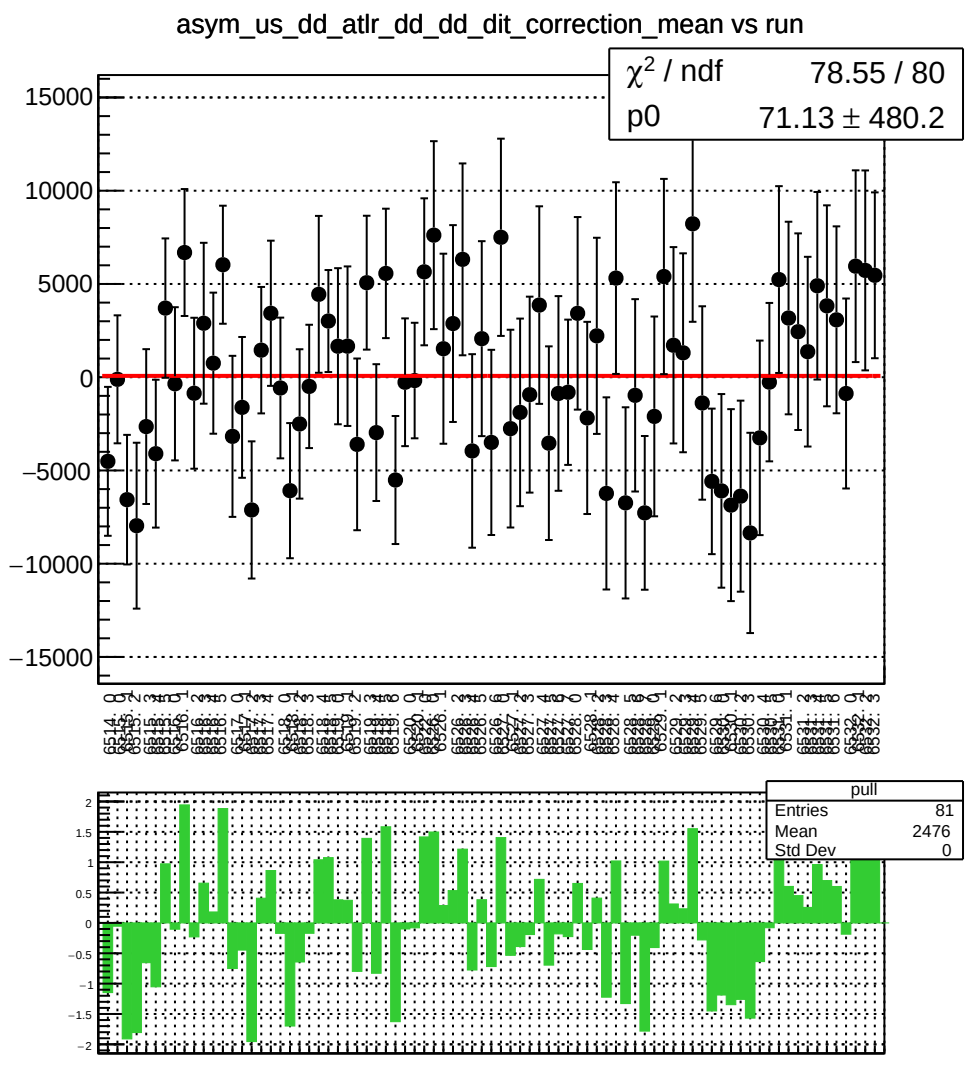

pull1D
Entries 81
Mean 0.01048
Std Dev 0.9883

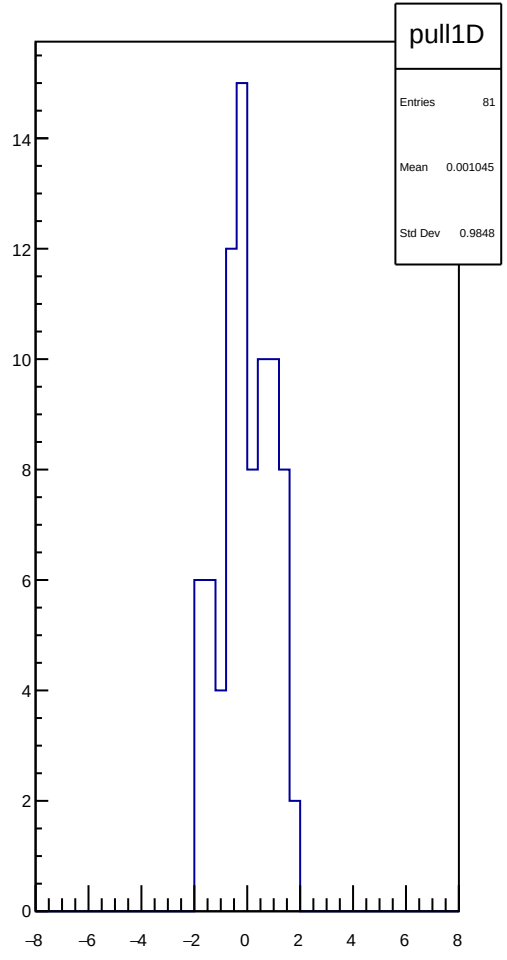

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 4.503e+04 / 80
p0 413.6 ± 0.3359
500
450
400
350
300

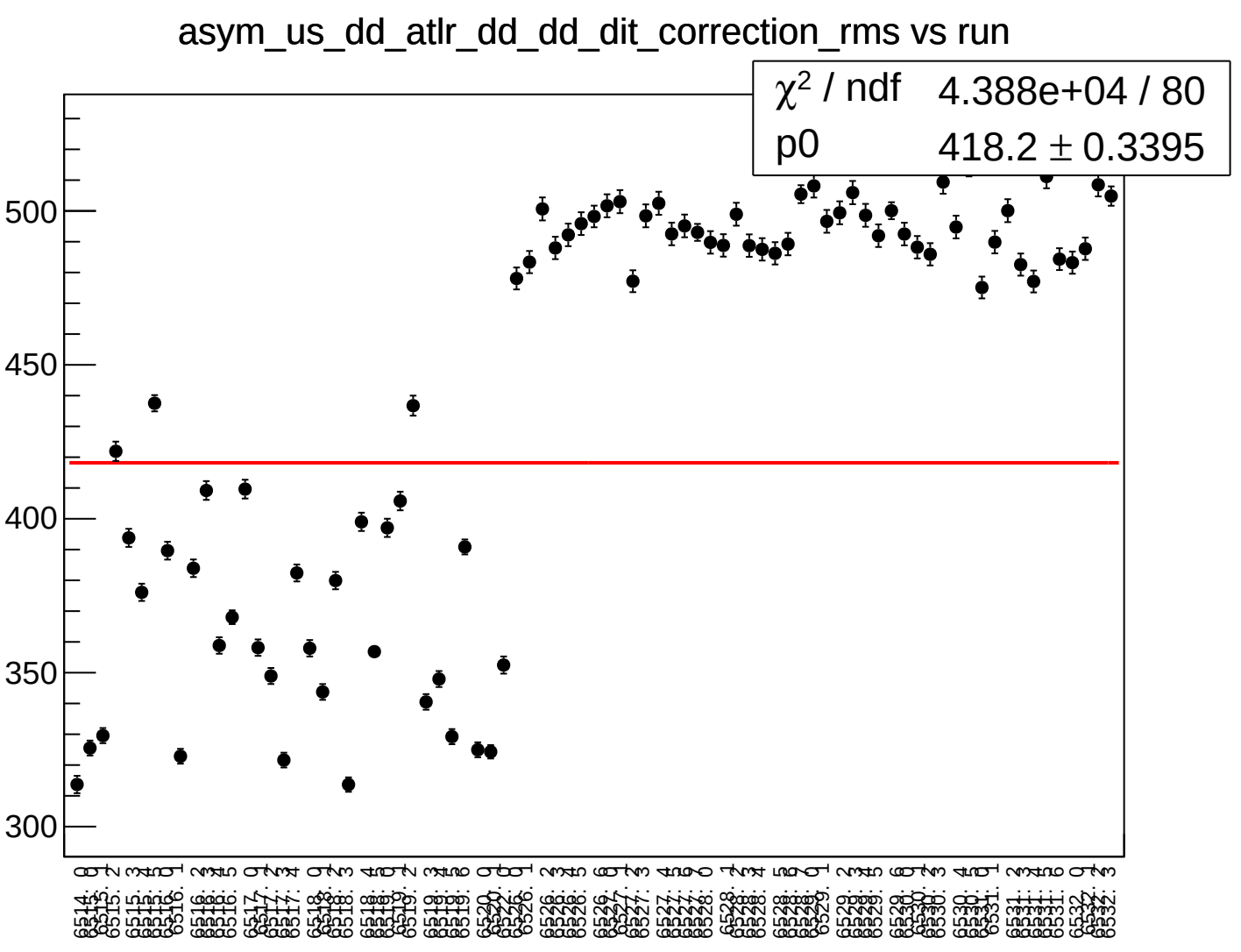

dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 73.56 / 80
p0 373.7 ± 1282
pull
Entries 81
Mean −5.487e+04
Std Dev 0

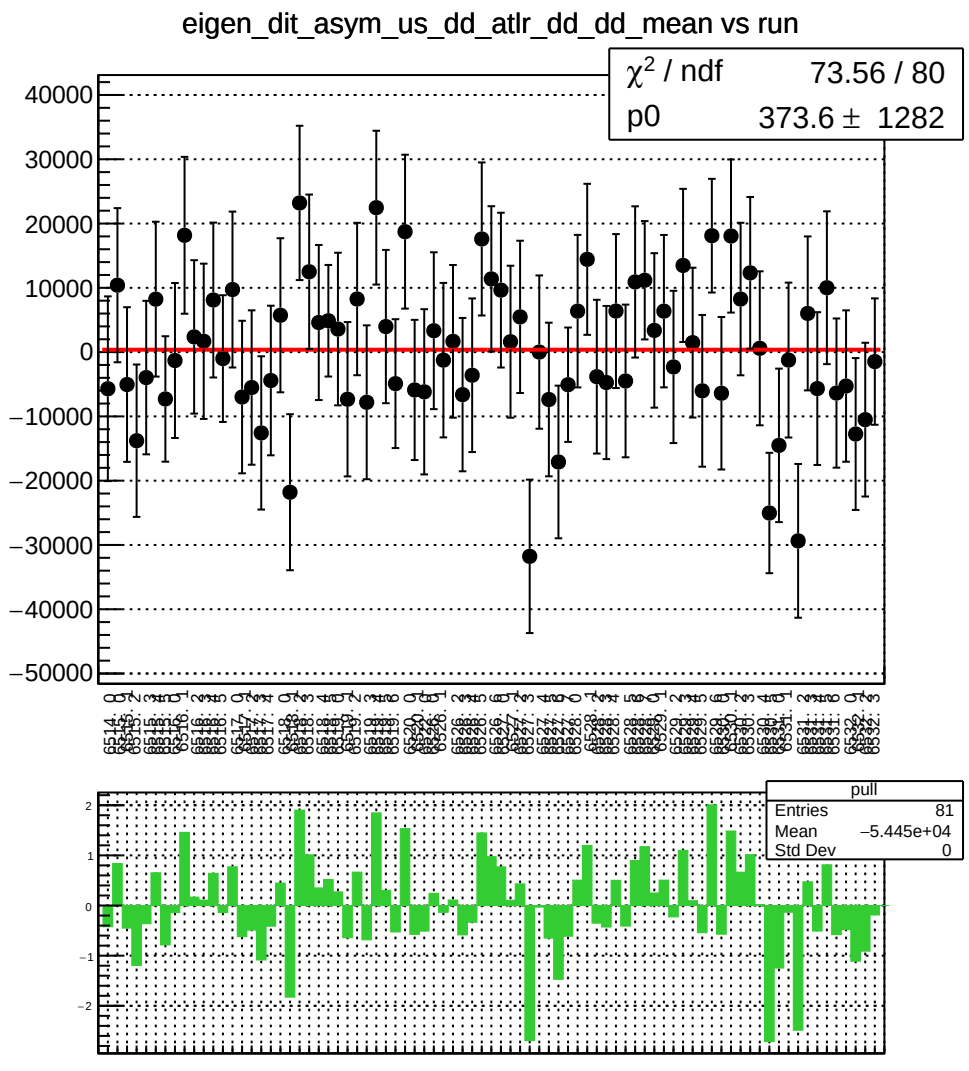

pull1D
Entries 81
Mean 3.892e−05
Std Dev 0.953

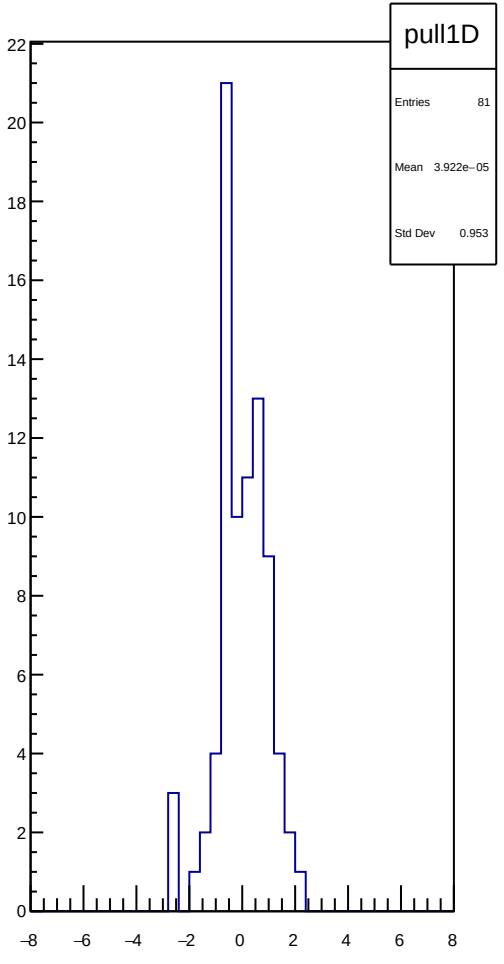

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 109.8 / 80
p0 1133 ± 0.9068
1170
1160
1150
1140
1130
1120
1110
1100

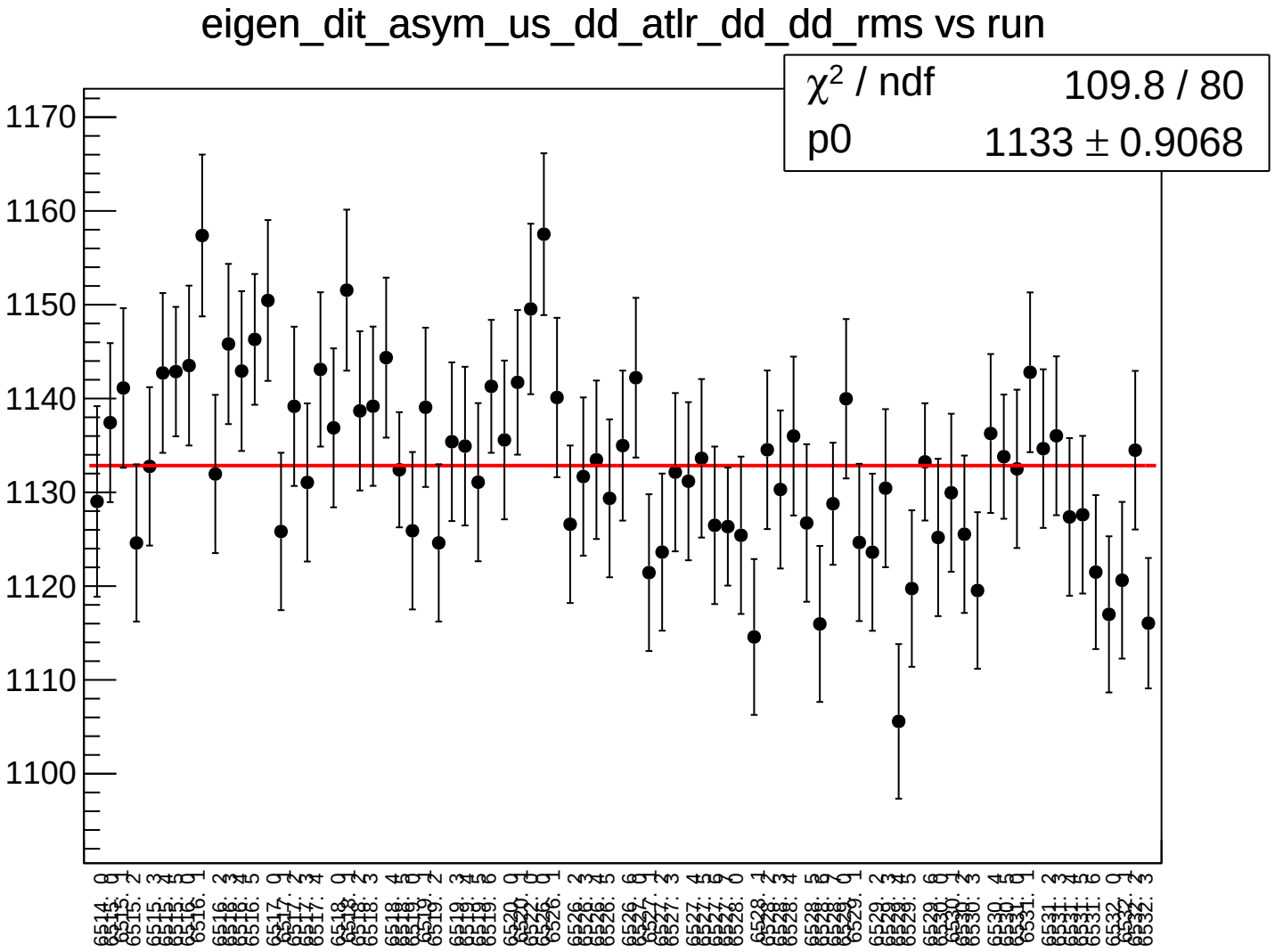

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 78.55 / 80
p0 71.13 ± 480.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean 2476
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

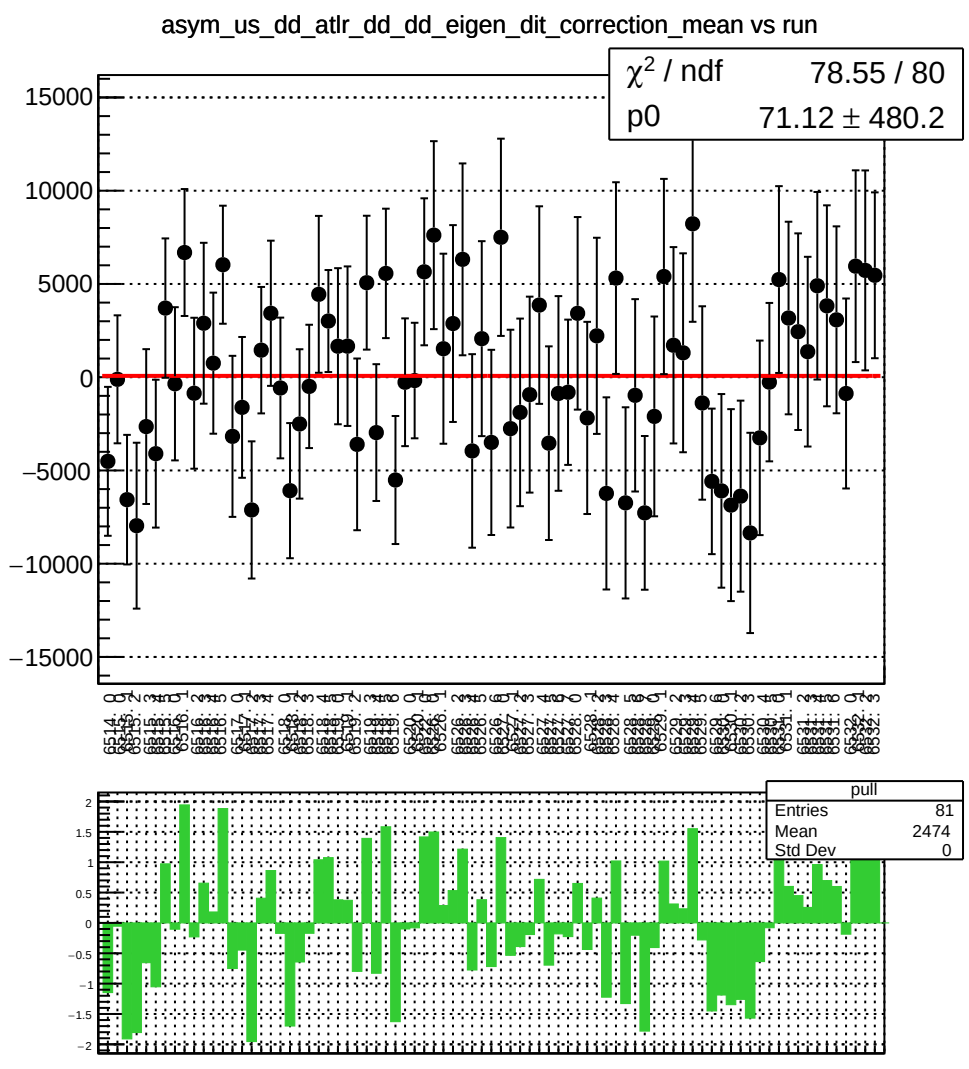

pull1D
Entries 81
Mean 0.001045
Std Dev 0.9848
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

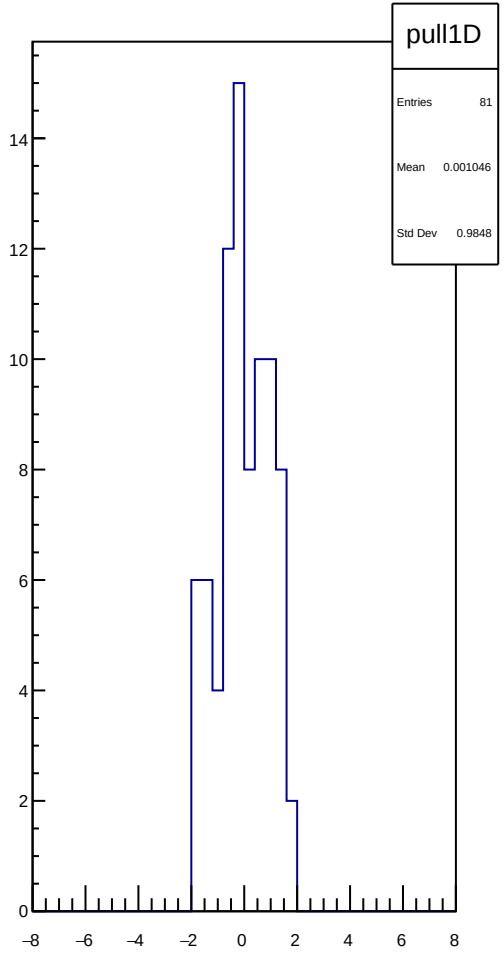

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 4.388e+04 / 80
p0 418.2 ± 0.3395
500
450
400
350
300

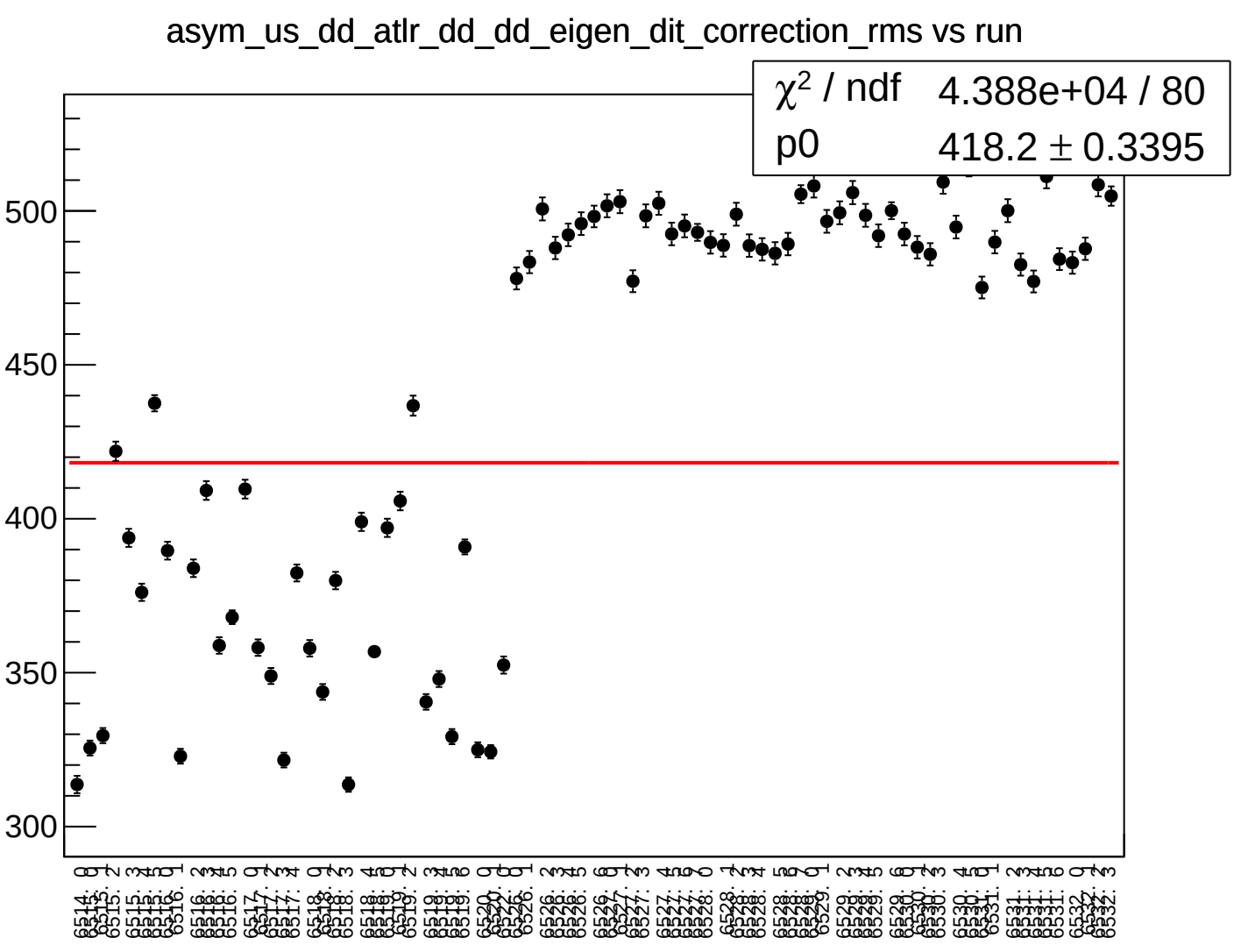

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 73.56 / 80
p0 373.6 ± 1282
pull
Entries 81
Mean −5.445e+04
Std Dev 0

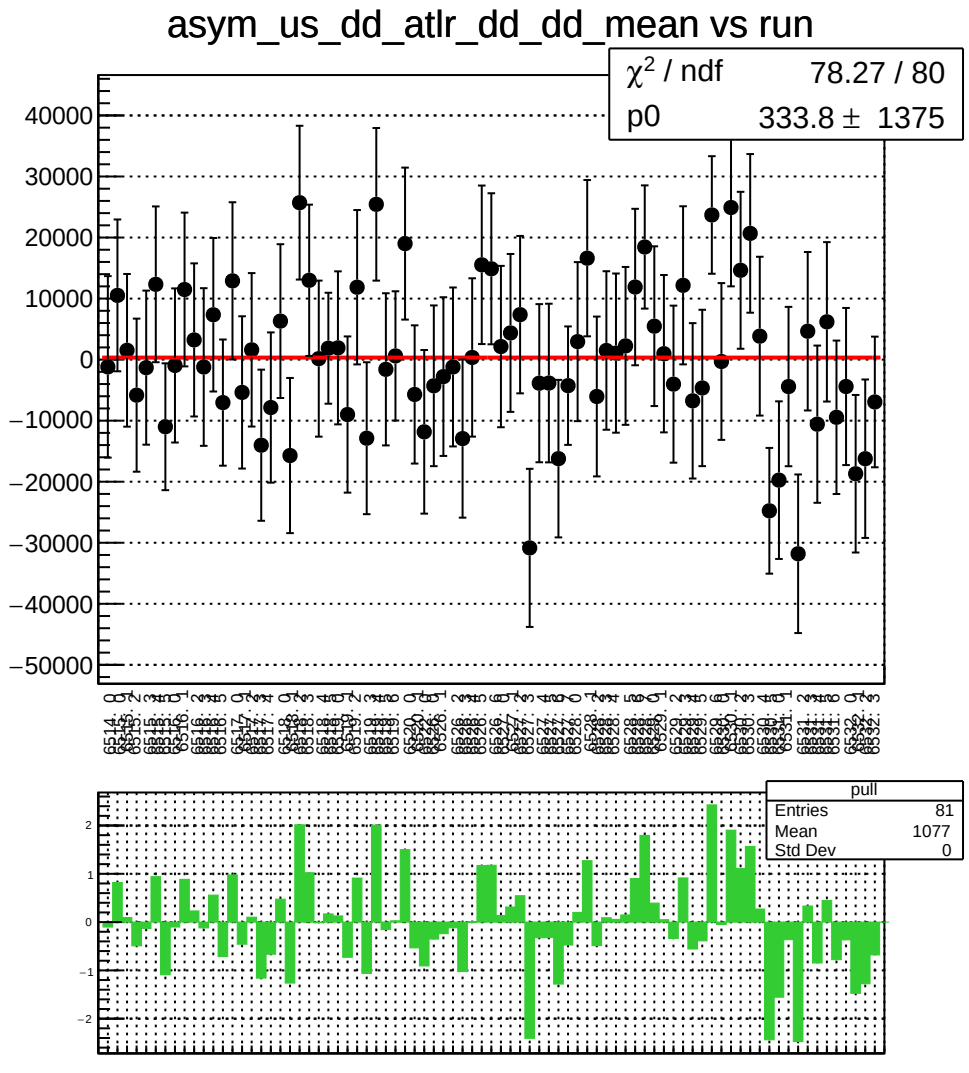

pull1D
Entries 81
Mean 3.922e−05
Std Dev 0.953

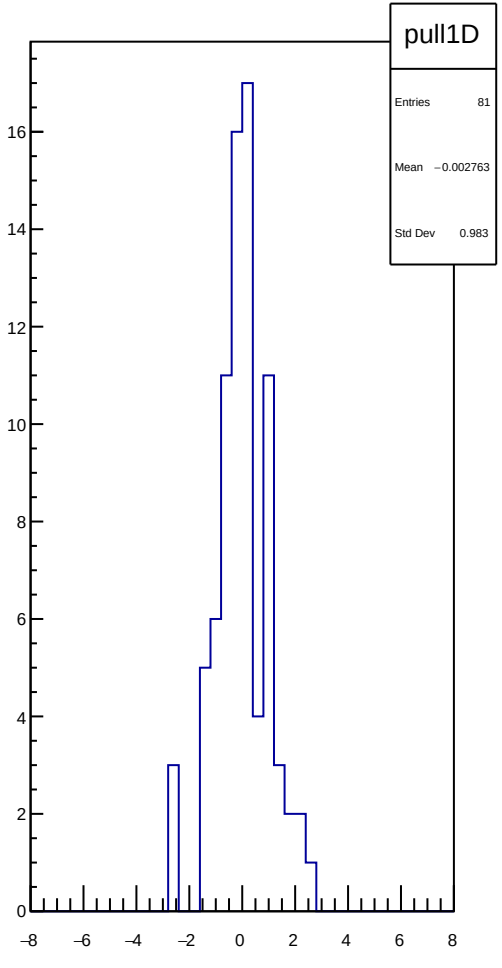

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ^2 / ndf 109.8 / 80
p0 1133 ± 0.9068
1170
1160
1150
1140
1130
1120
1110
1100

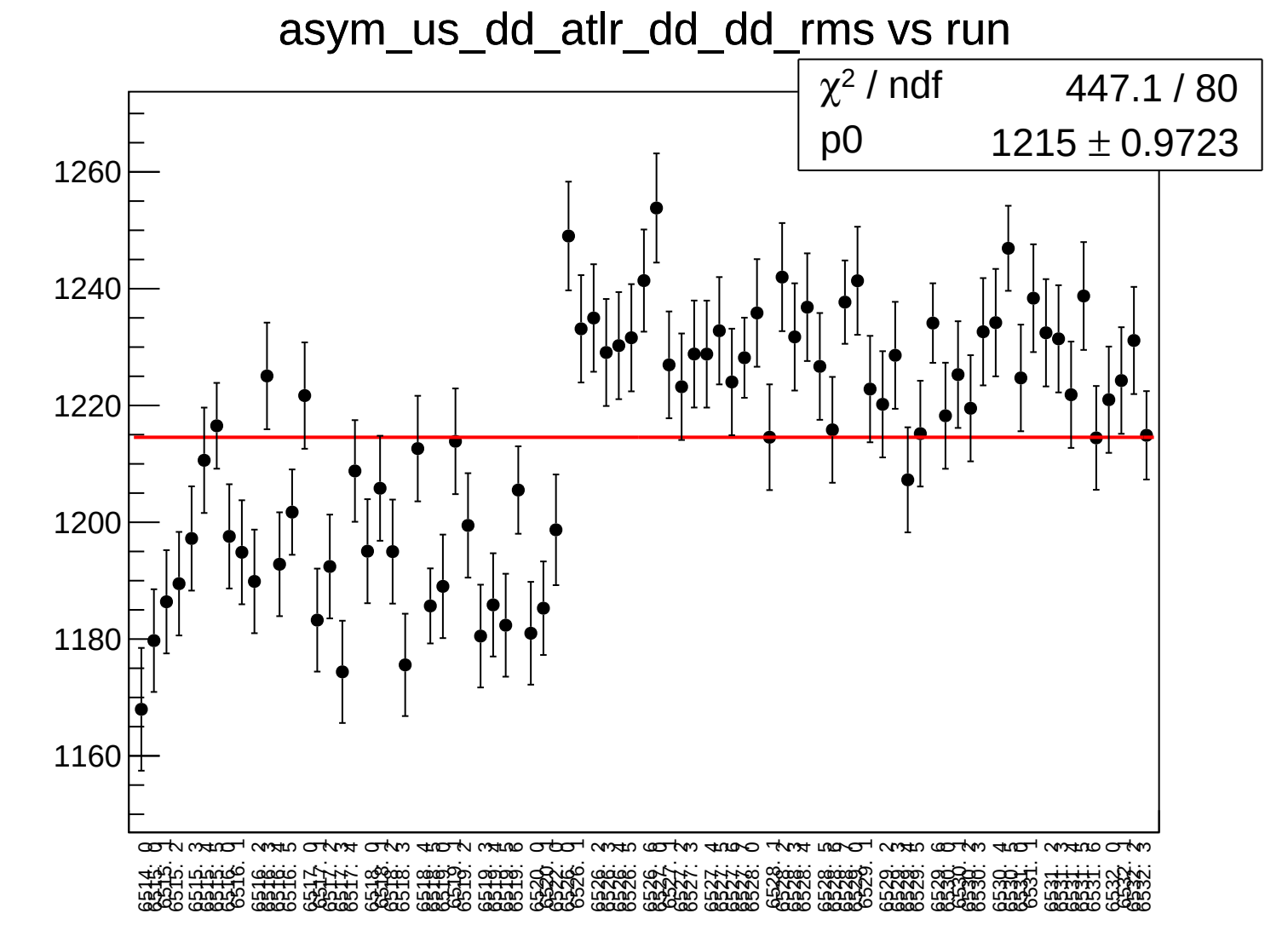

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 78.55 / 80
p0 71.12 ± 480.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean 2474
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

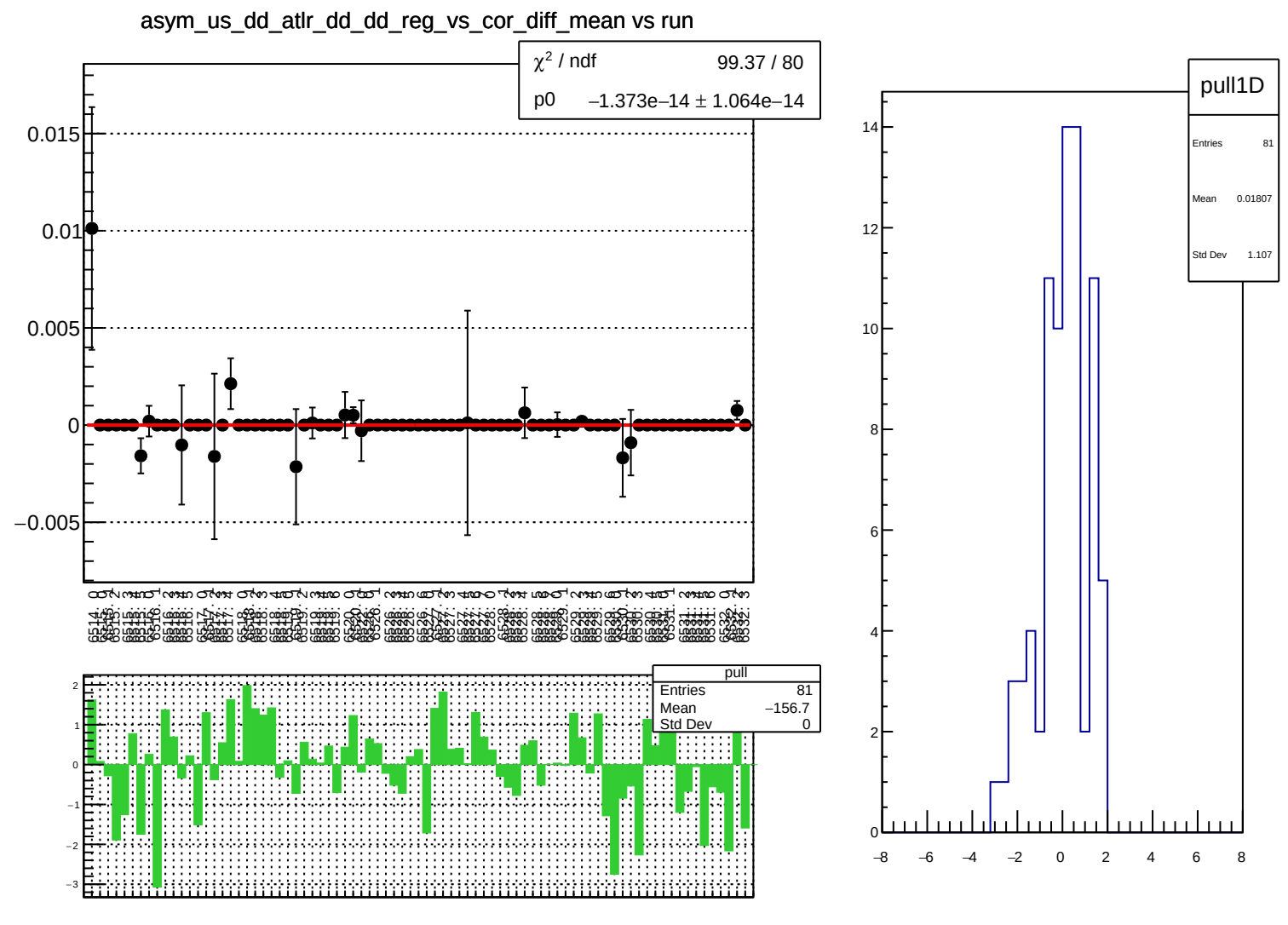

pull1D
Entries 81
Mean 0.001046
Std Dev 0.9848
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

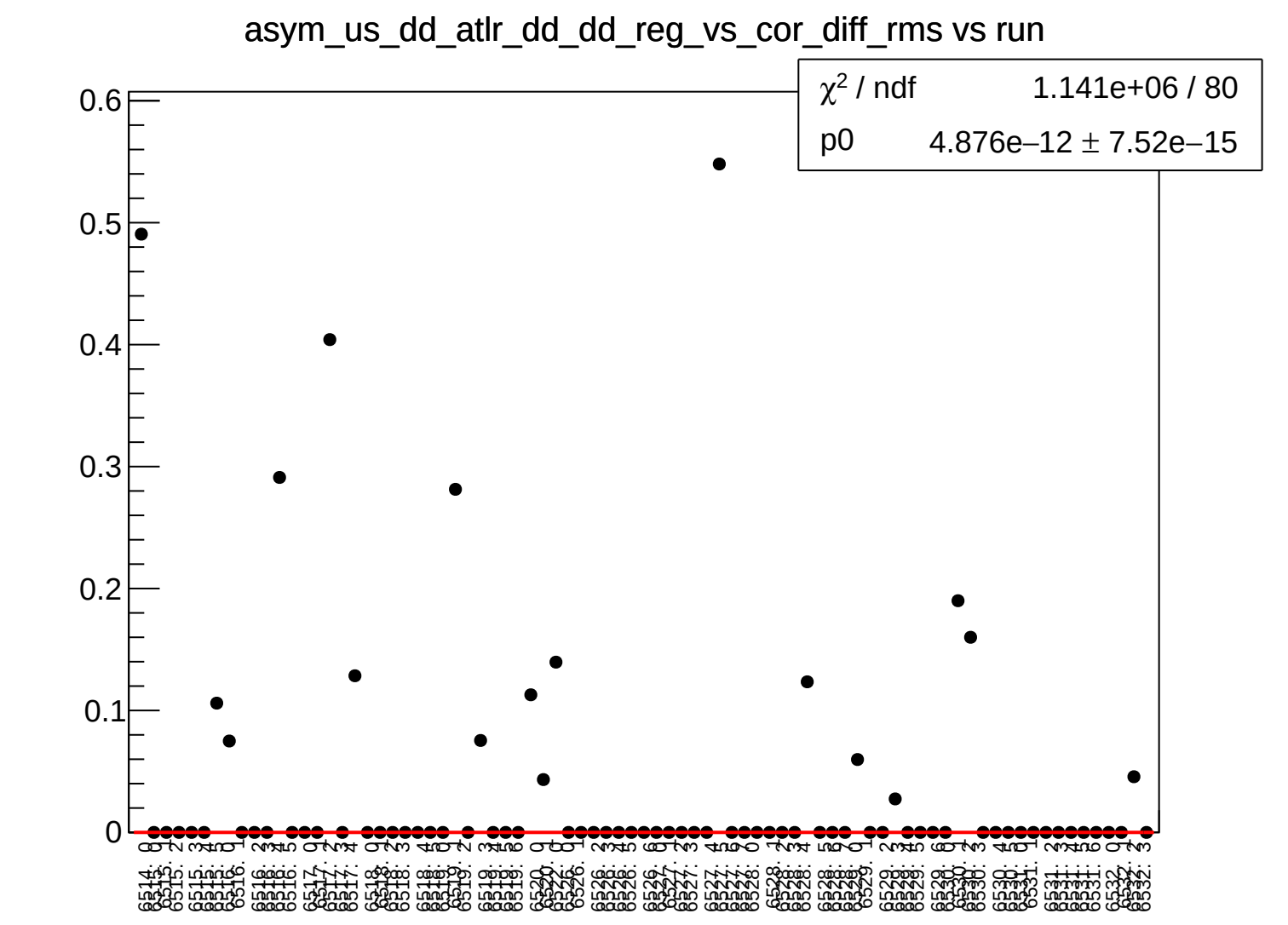

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 4.388e+04 / 80
p0 418.2 ± 0.3395
500
450
400
350
300

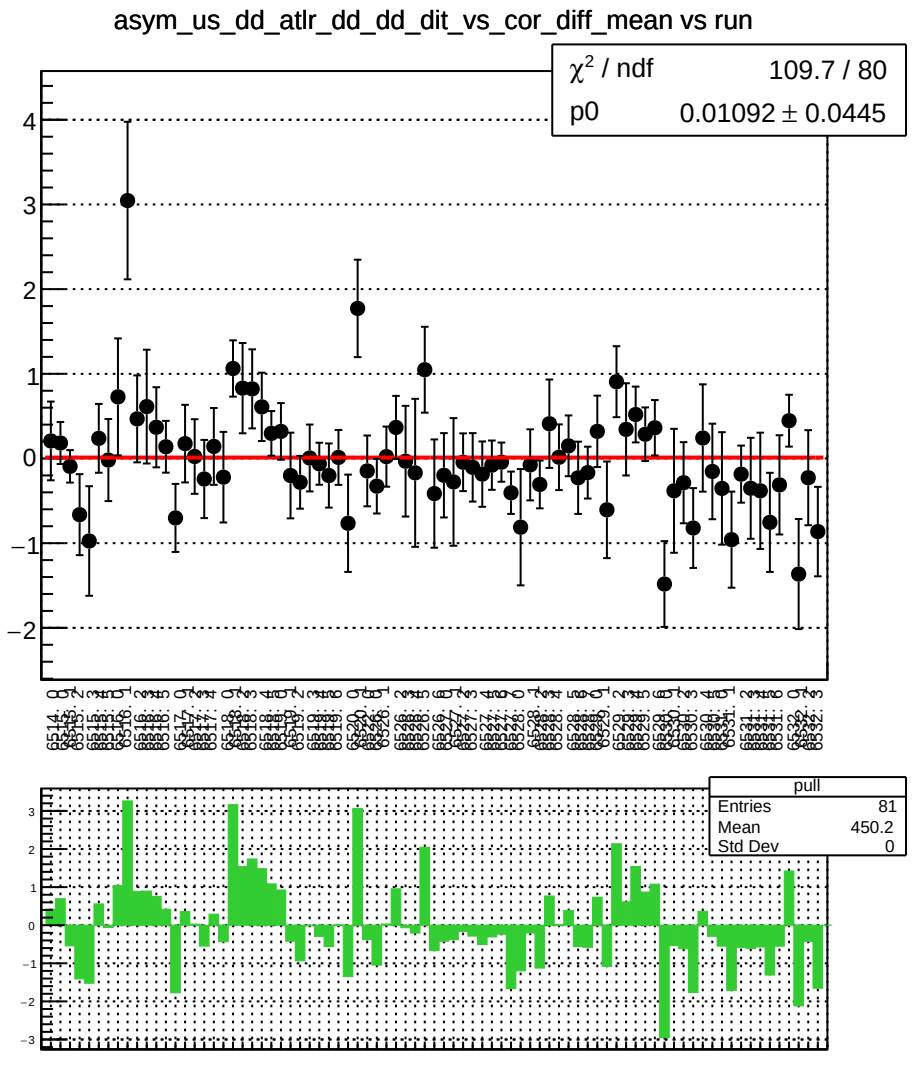

asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 78.27 / 80
p0 333.8 ± 1375
pull
Entries 81
Mean 1077
Std Dev 0

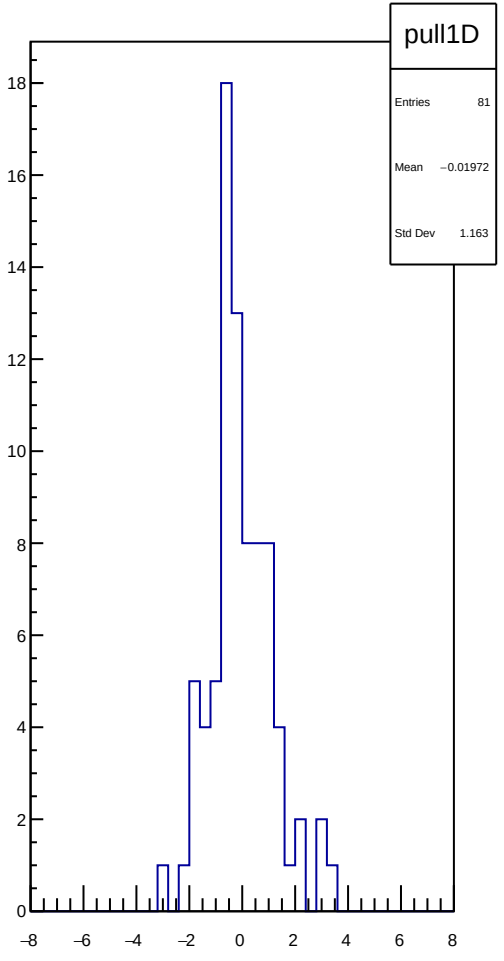

pull1D
Entries 81
Mean −0.002763
Std Dev 0.983

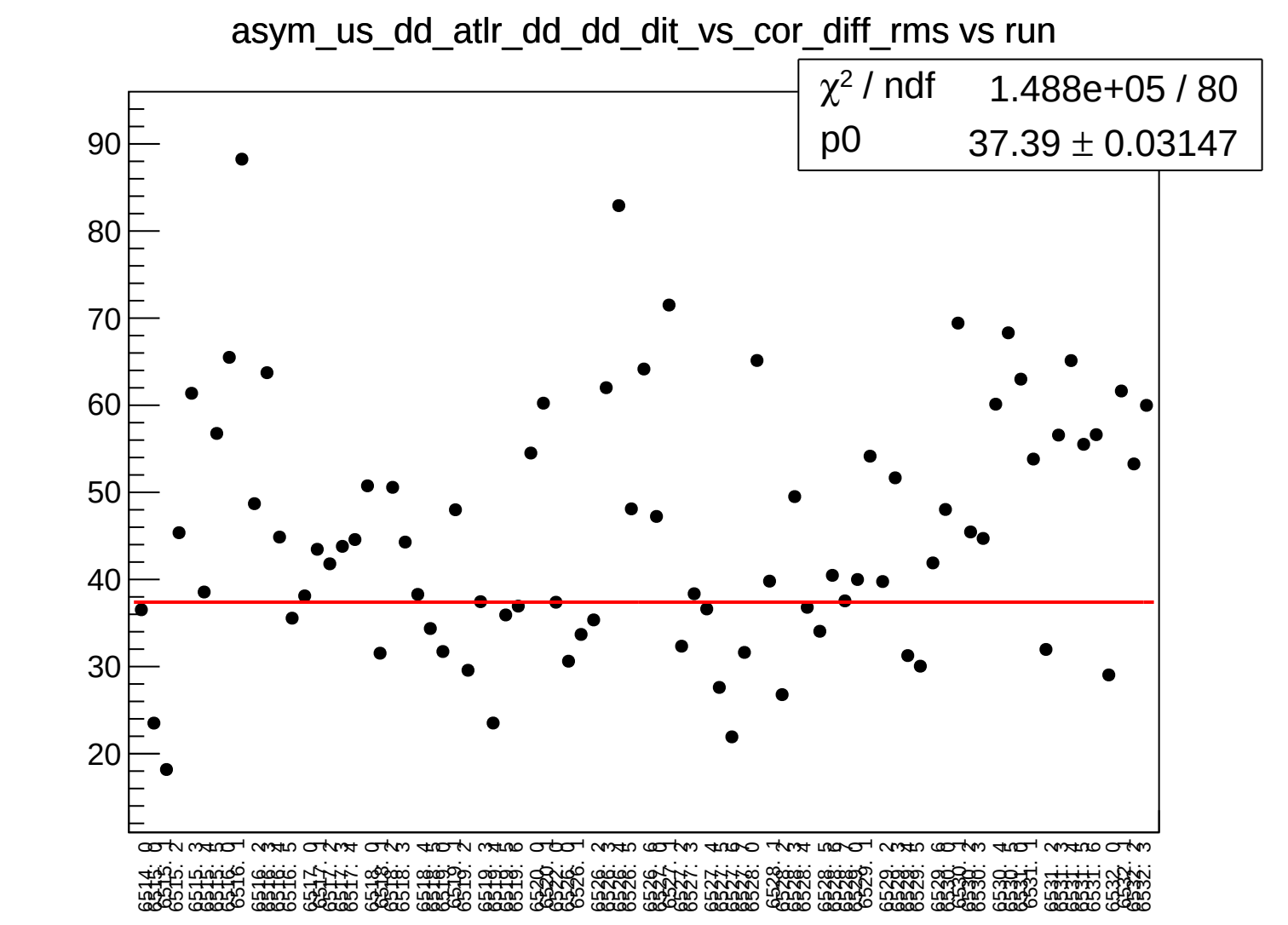

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 447.1 / 80
p0 1215 ± 0.9723
1260
1240
1220
1200
1180
1160

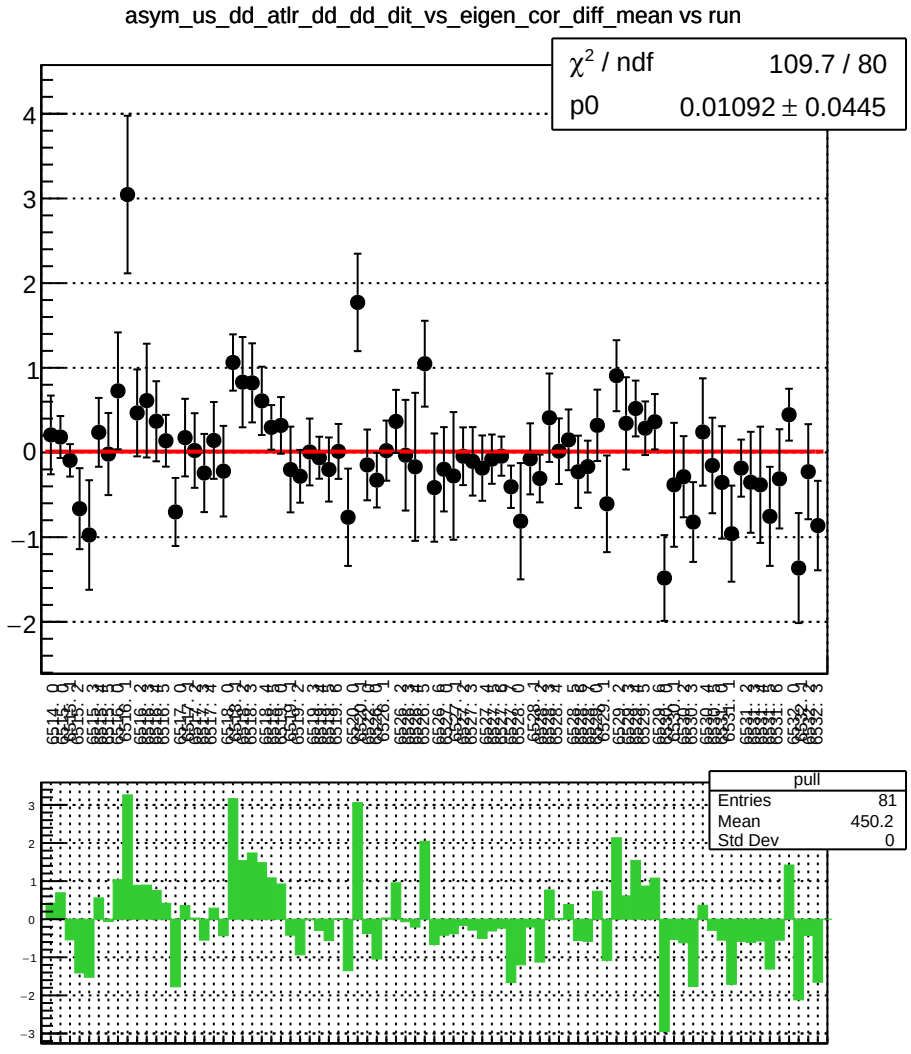

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 99.37 / 80
p0 −1.373e−14 ± 1.064e−14
0.015
0.01
0.005
0
−0.005
pull
Entries 81
Mean −156.7
Std Dev 0
pull1D
Entries 81
Mean 0.01807
Std Dev 1.107

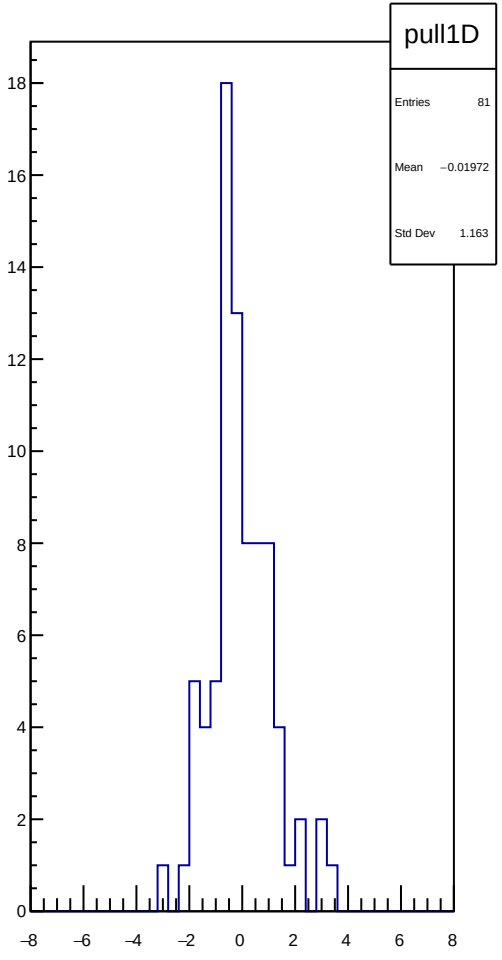

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.141e+06 / 80
p0 4.876e−12 ± 7.52e−15
0.6
0.5
0.4
0.3
0.2
0.1
0

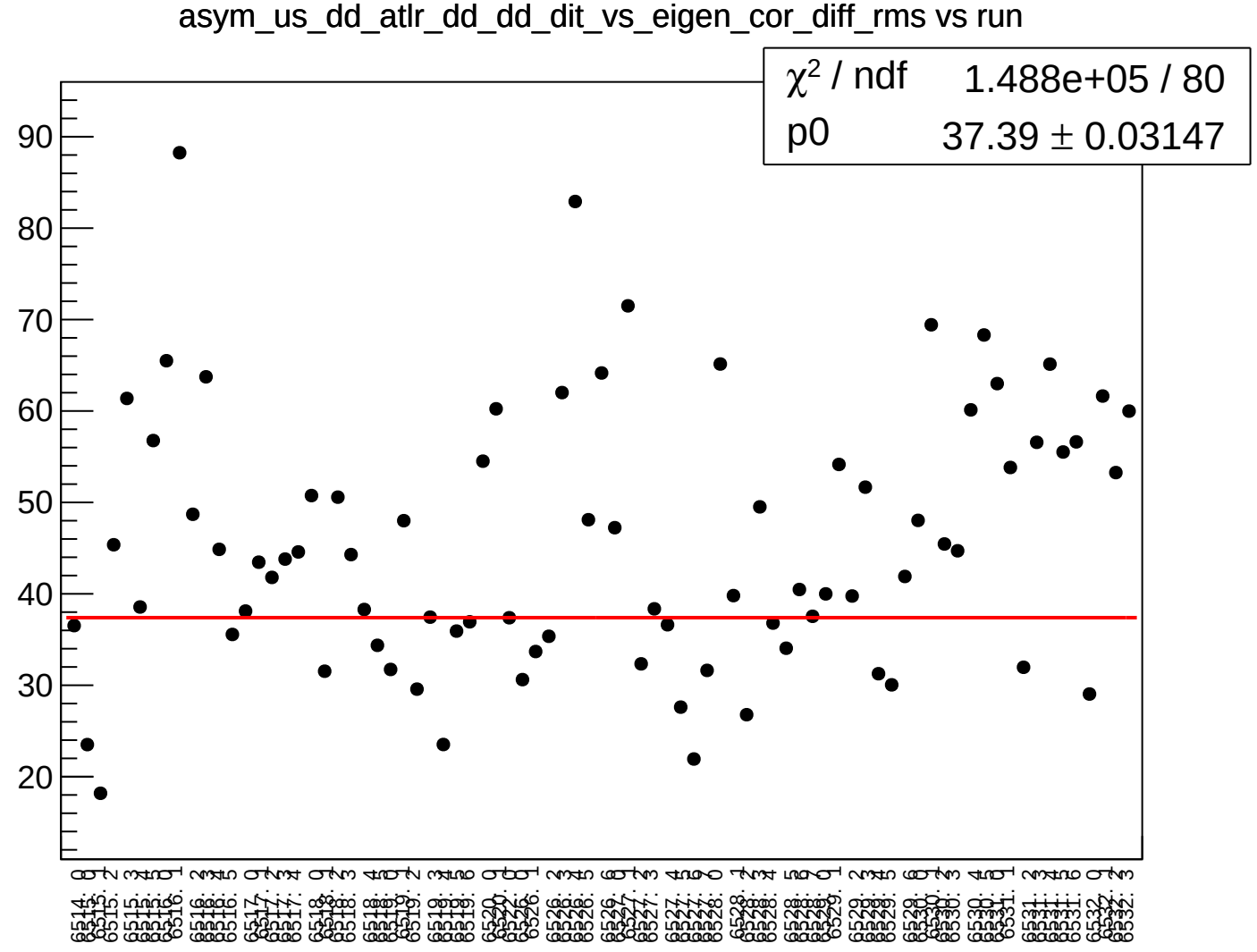

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 109.7 / 80
p0 0.01092 ± 0.0445
pull
Entries 81
Mean 450.2
Std Dev 0

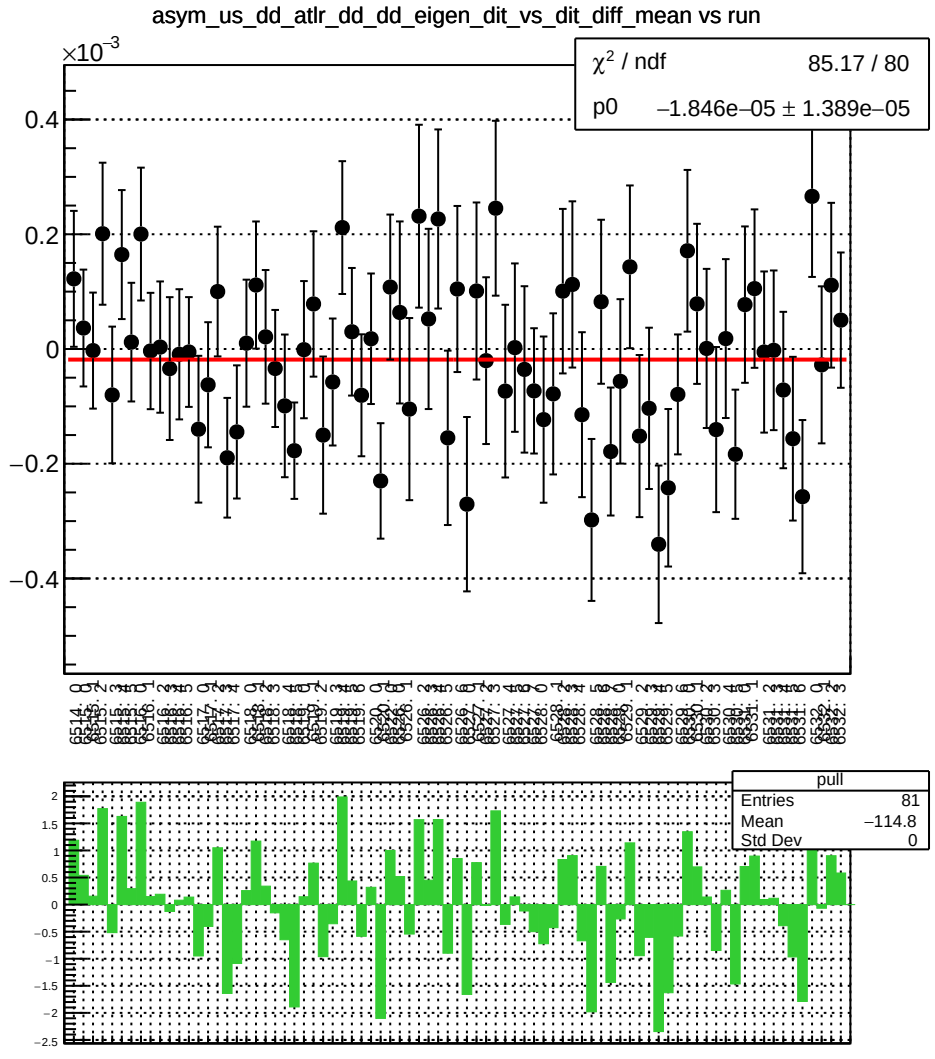

pull1D
Entries 81
Mean −0.01972
Std Dev 1.163

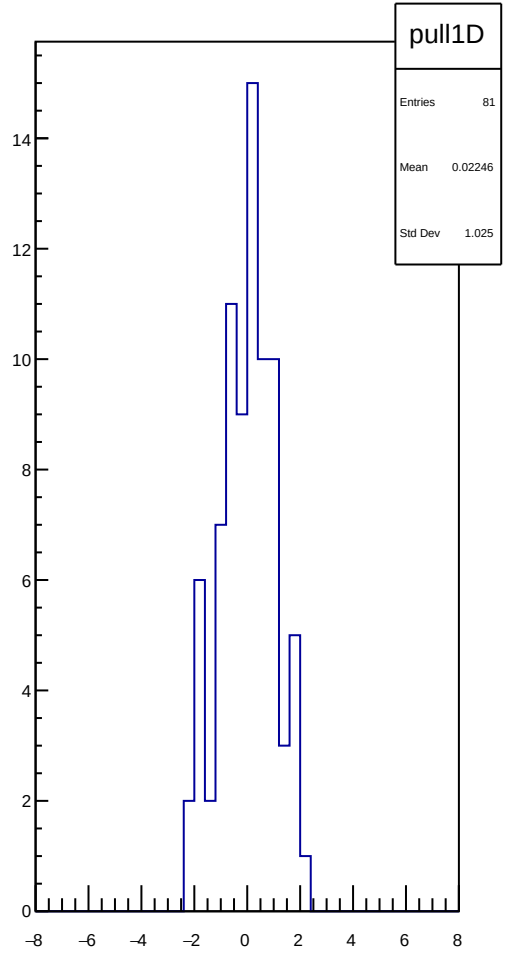

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.488e+05 / 80
p0 37.39 ± 0.03147
90
80
70
60
50
40
30
20

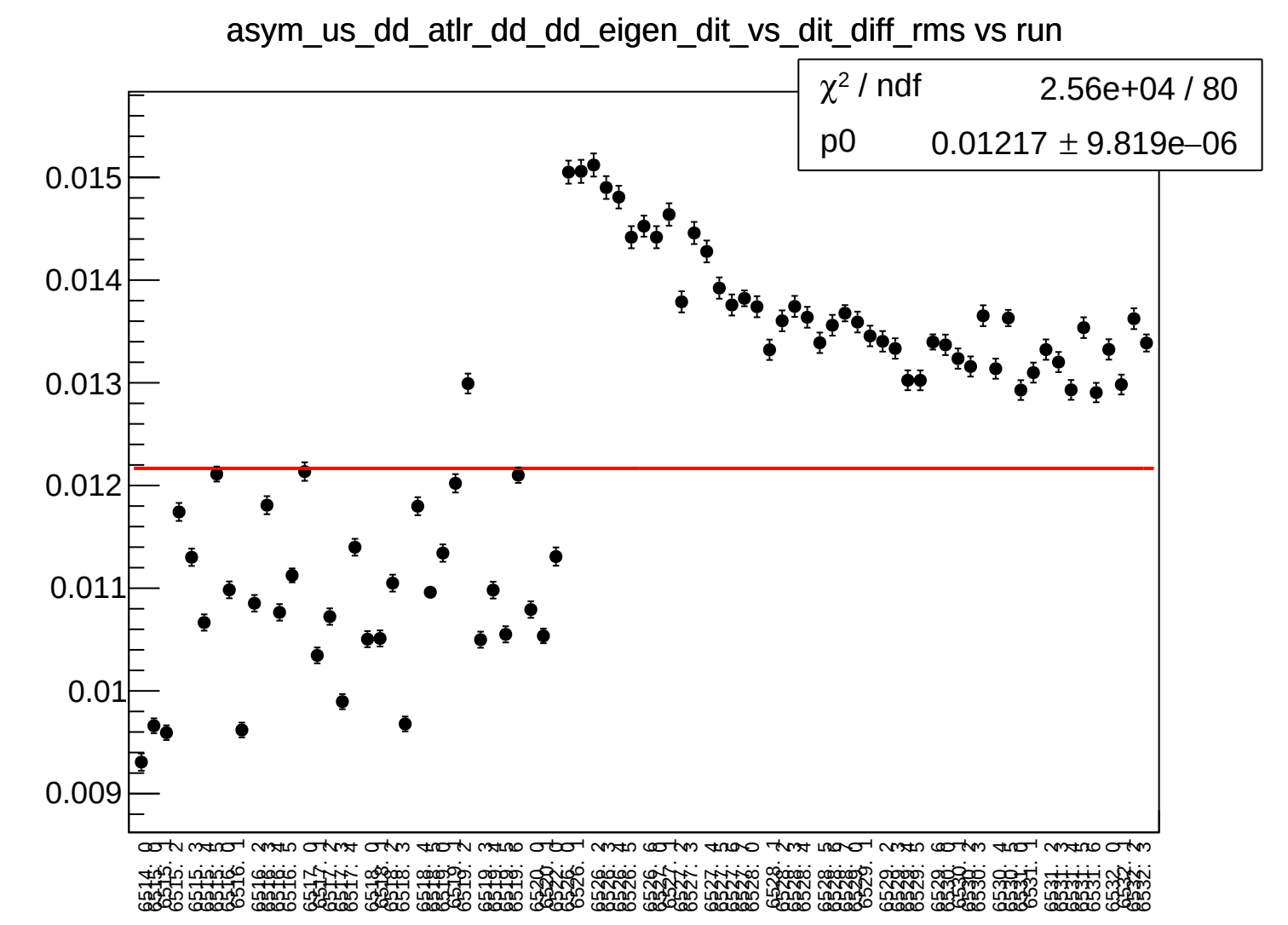

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.7 / 80
p0 0.01092 ± 0.0445
pull
Entries 81
Mean 450.2
Std Dev 0

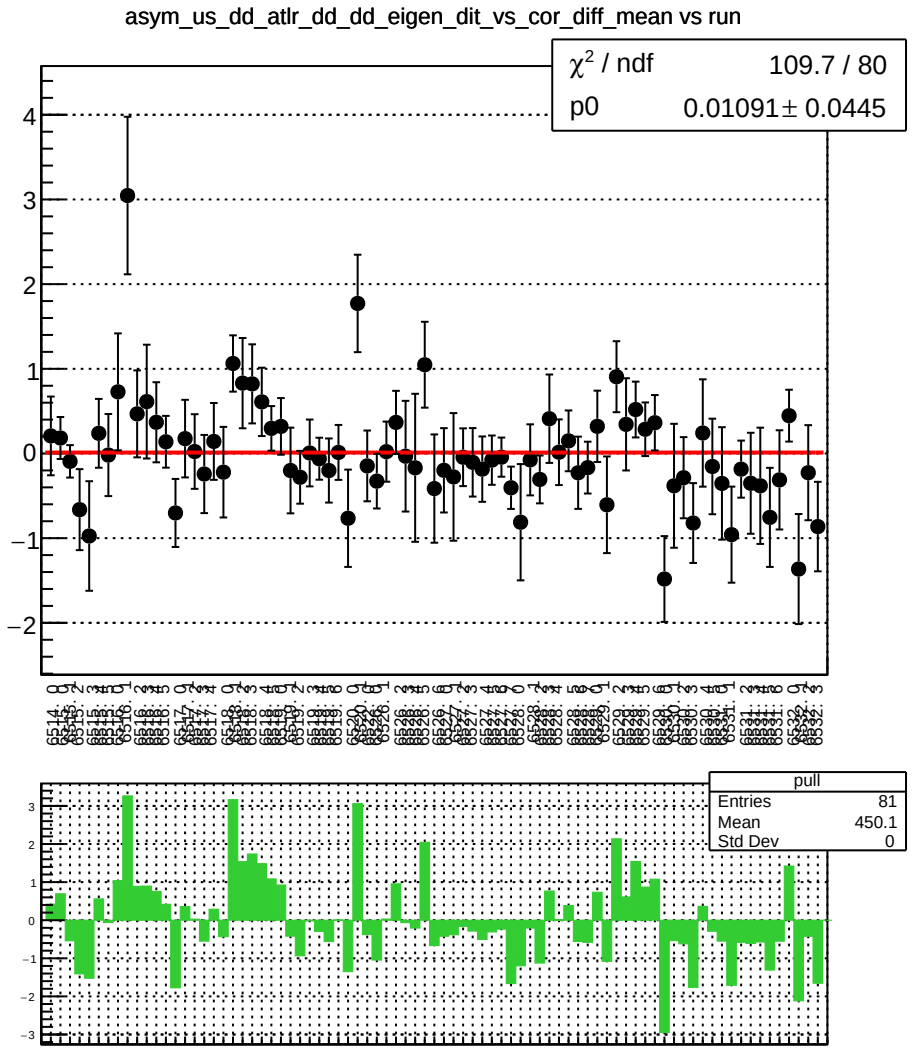

pull1D
Entries 81
Mean −0.01972
Std Dev 1.163

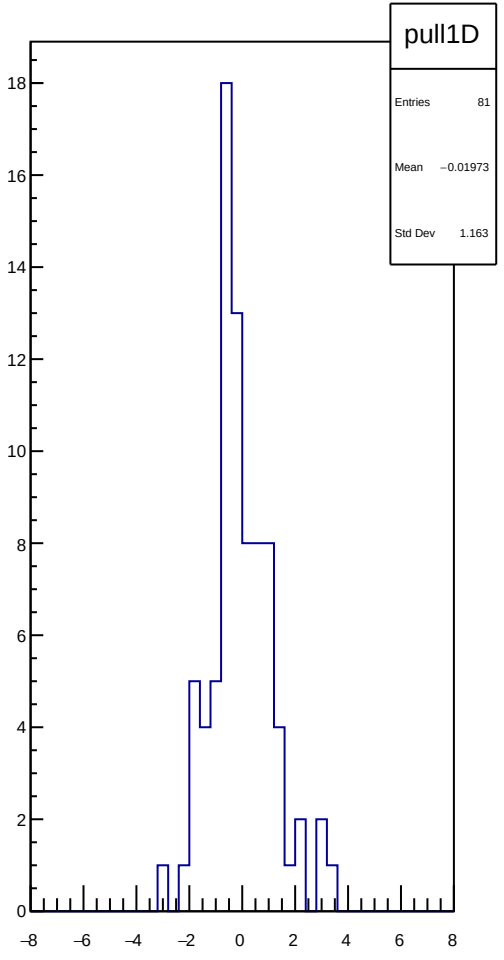

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.488e+05 / 80
p0 37.39 ± 0.03147
90
80
70
60
50
40
30
20

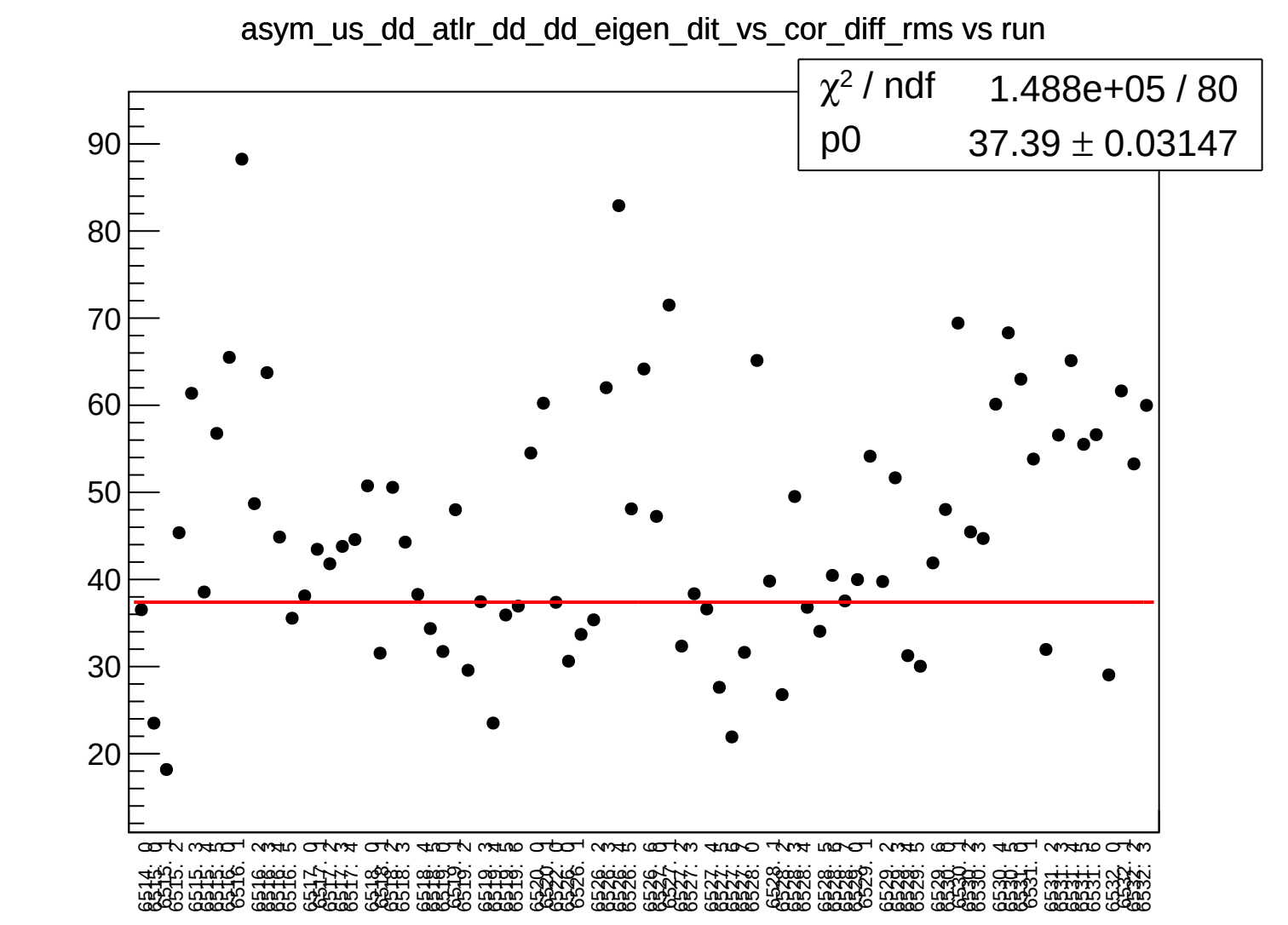

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.17 / 80
p0 −1.846e−05 ± 1.389e−05
pull
Entries 81
Mean −114.8
Std Dev 0

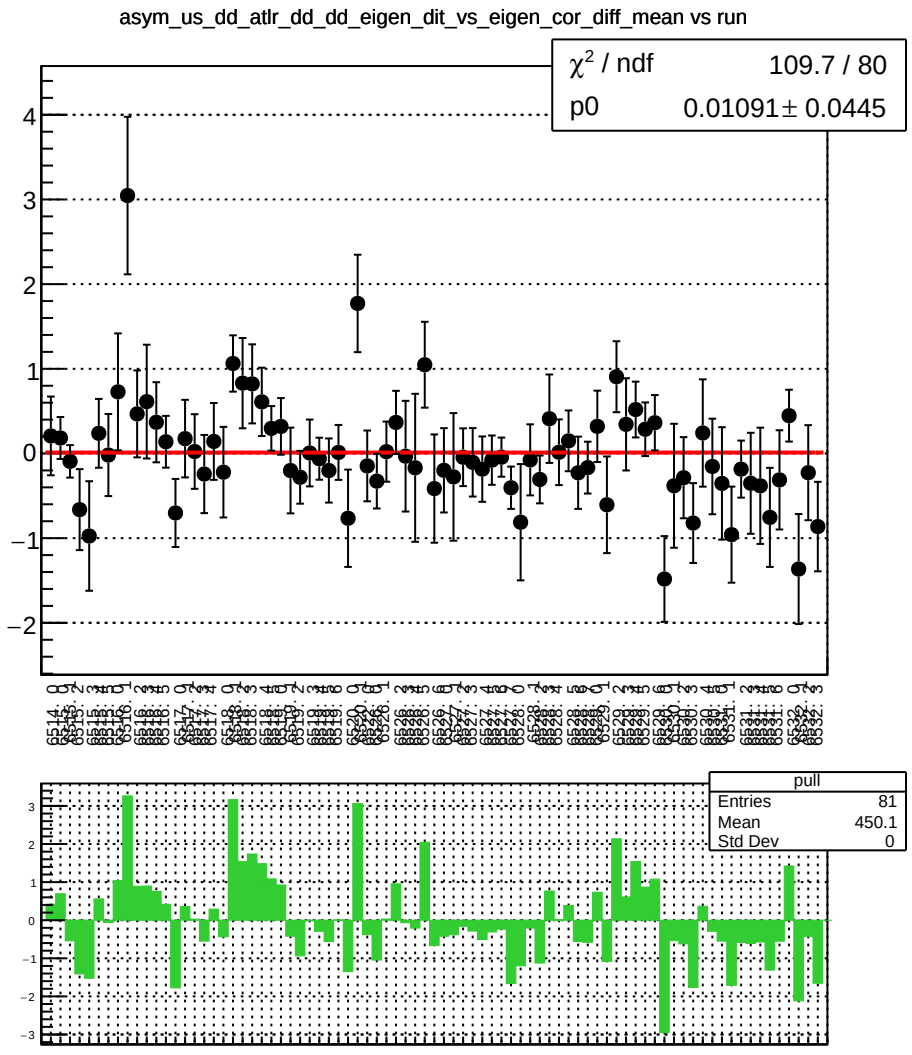

pull1D
Entries 81
Mean 0.02246
Std Dev 1.025

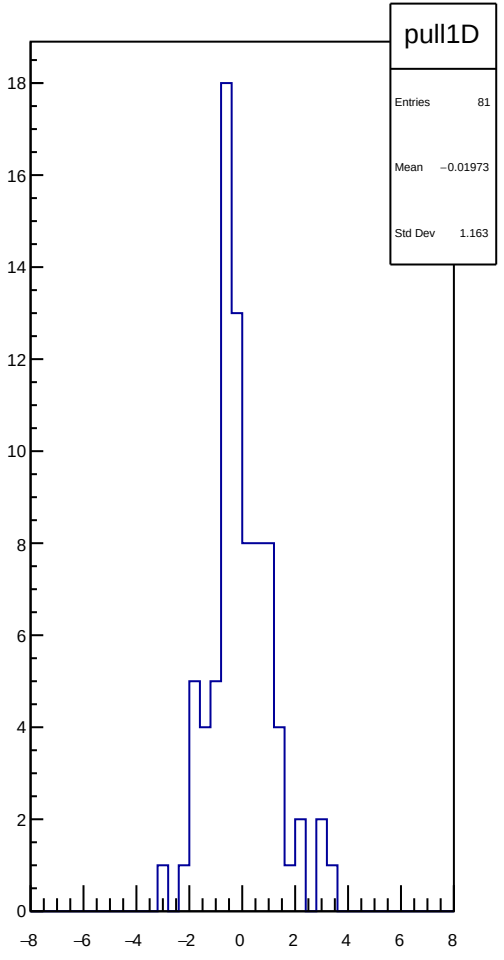

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.56e+04 / 80
p0 0.01217 ± 9.819e−06
0.015
0.014
0.013
0.012
0.011
0.01
0.009

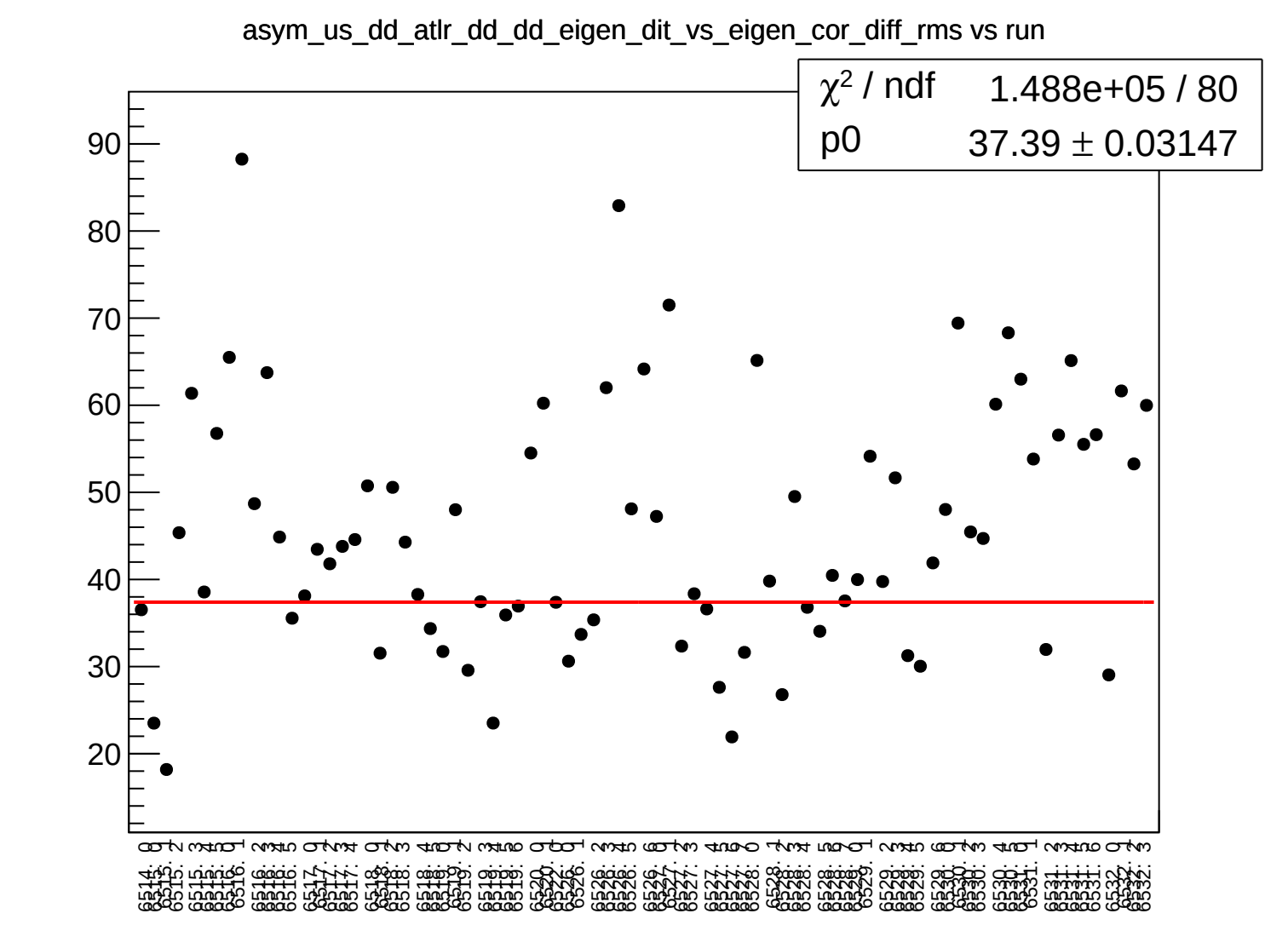

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 109.7 / 80
p0 0.01091 ± 0.0445
pull
Entries 81
Mean 450.1
Std Dev 0

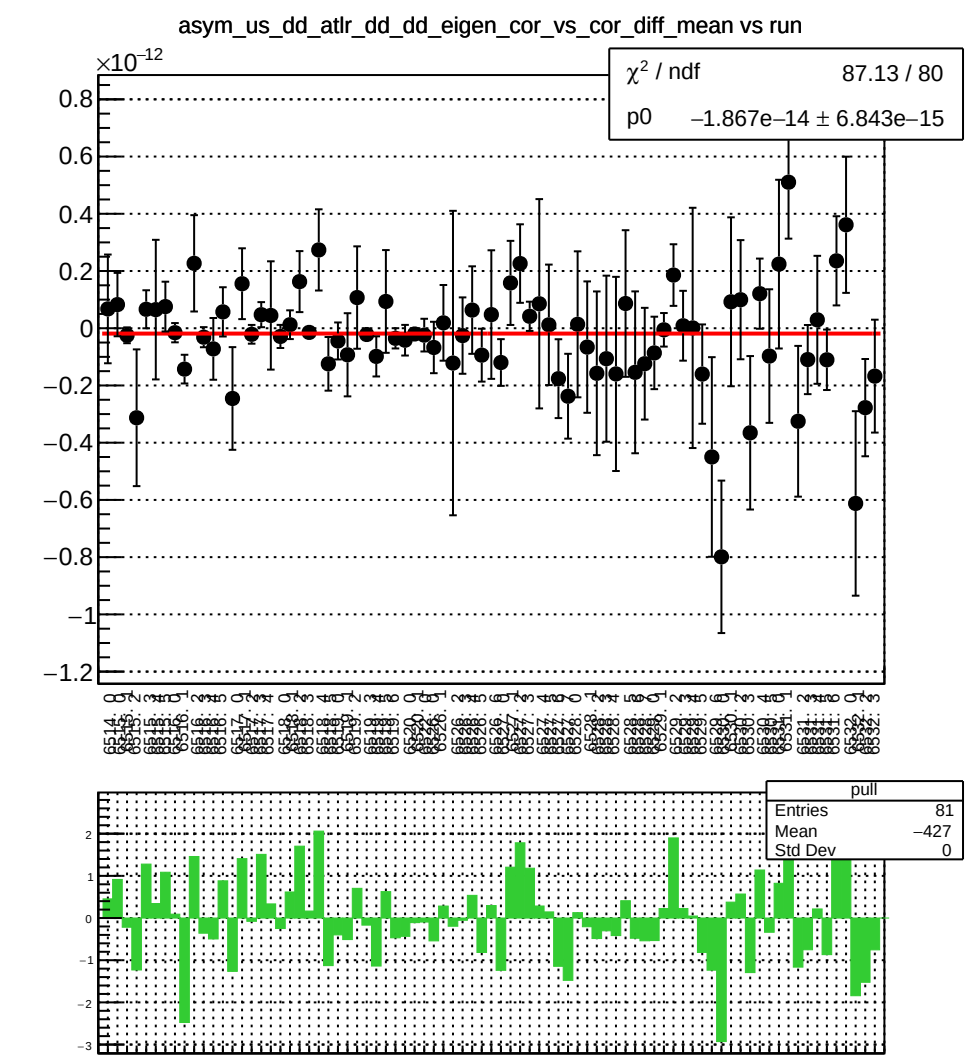

pull1D
Entries 81
Mean −0.01973
Std Dev 1.163

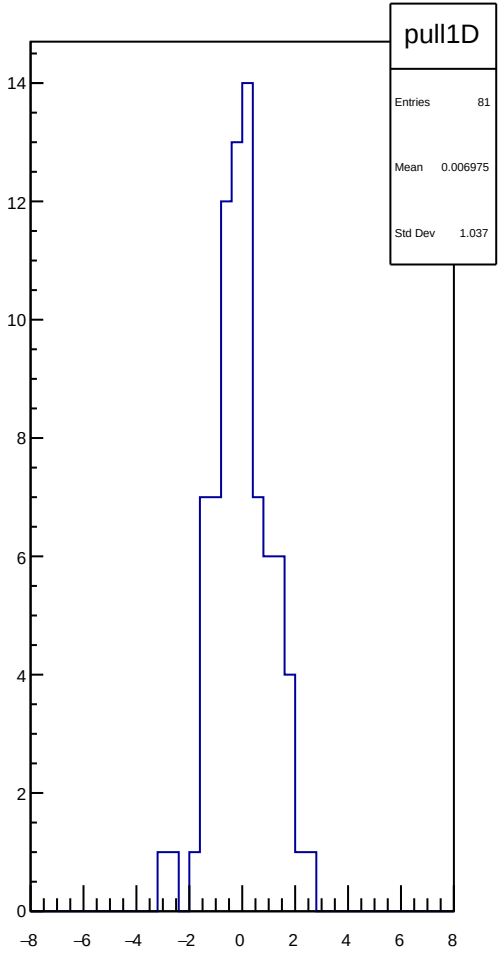

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.488e+05 / 80
p0 37.39 ± 0.03147
90
80
70
60
50
40
30
20

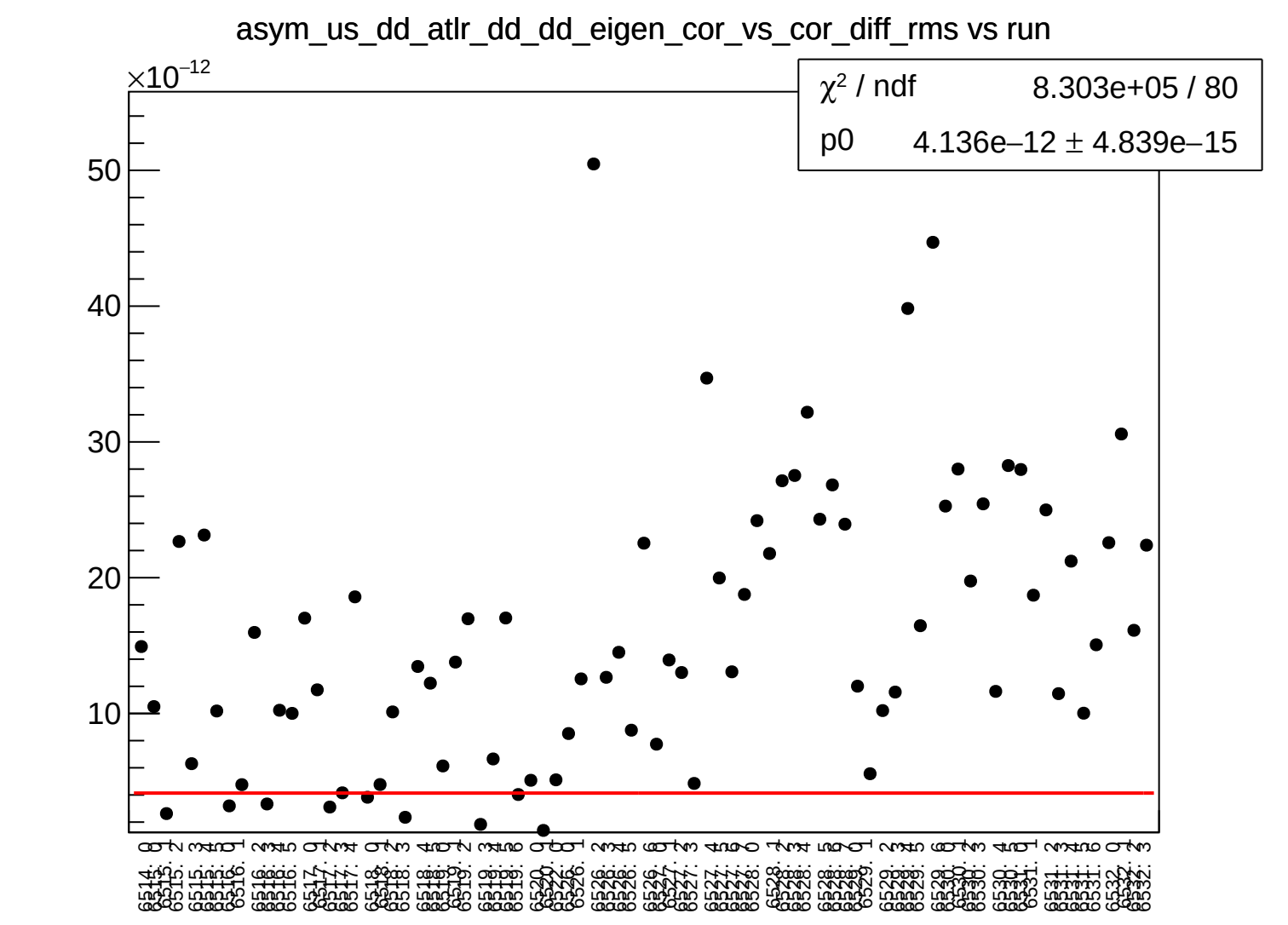

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ^2 / ndf 109.7 / 80
p0 0.01091 ± 0.0445
pull
Entries 81
Mean 450.1
Std Dev 0

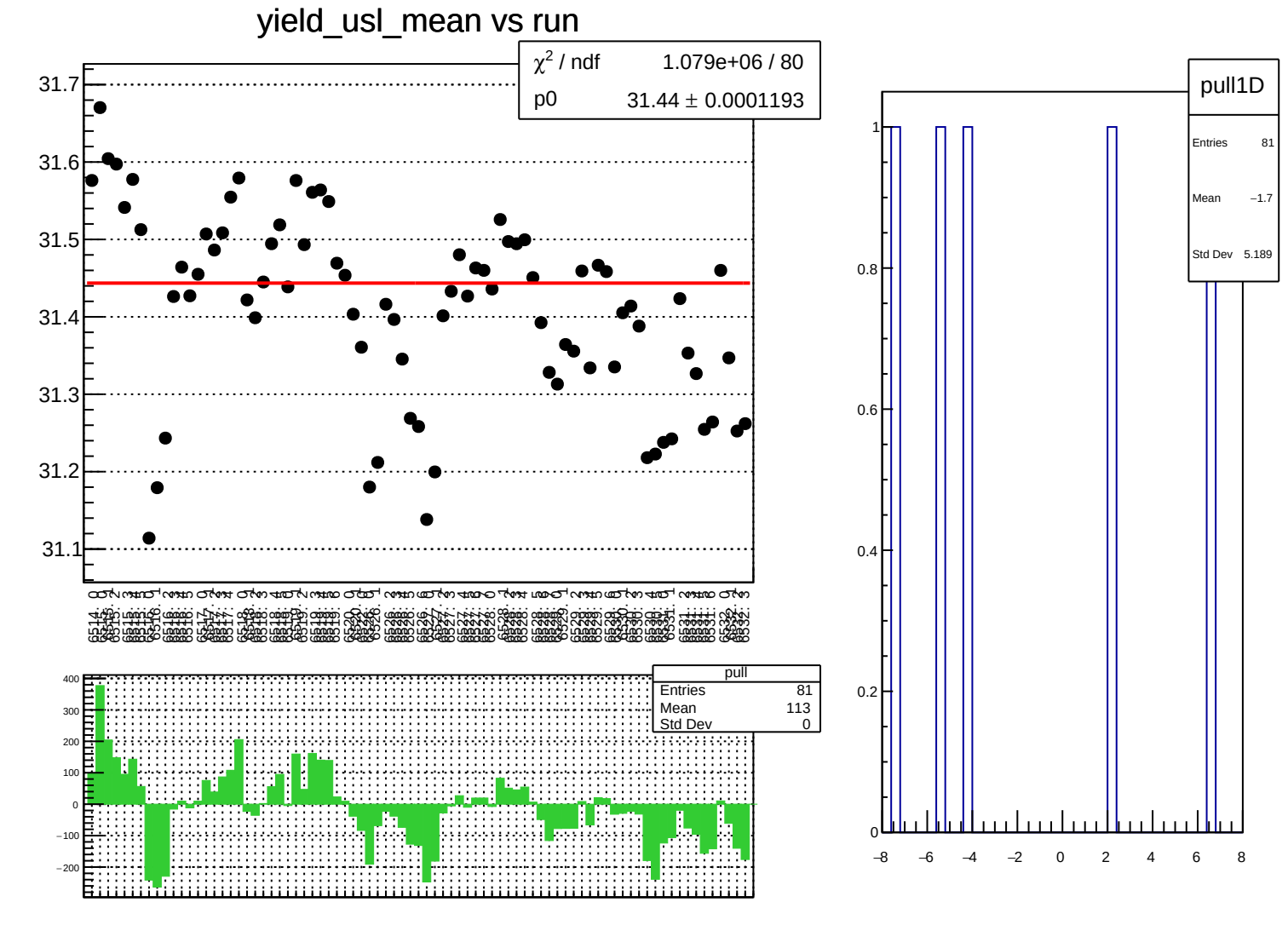

pull1D
Entries 81
Mean −0.01973
Std Dev 1.163

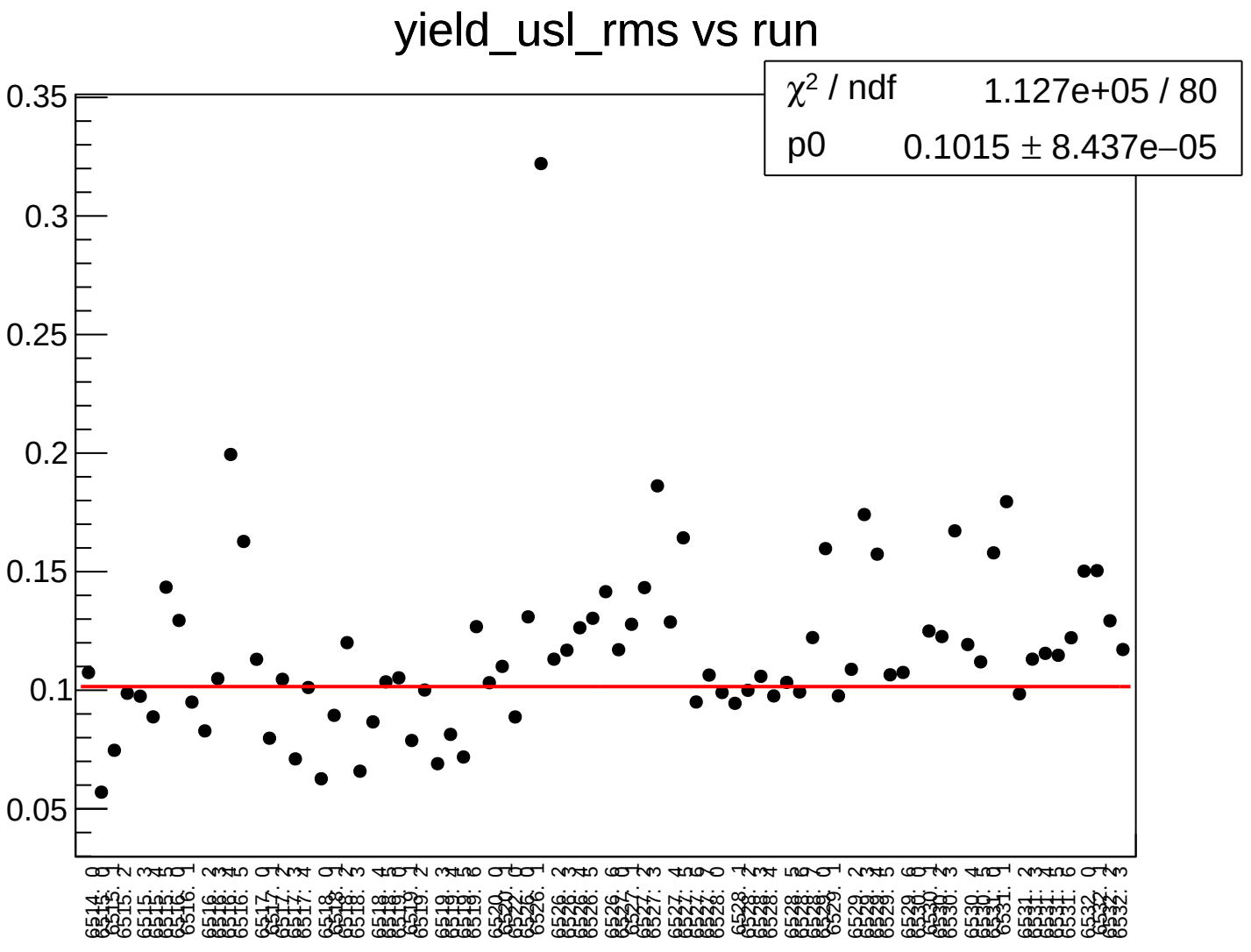

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.488e+05 / 80
p0 37.39 ± 0.03147
90
80
70
60
50
40
30
20

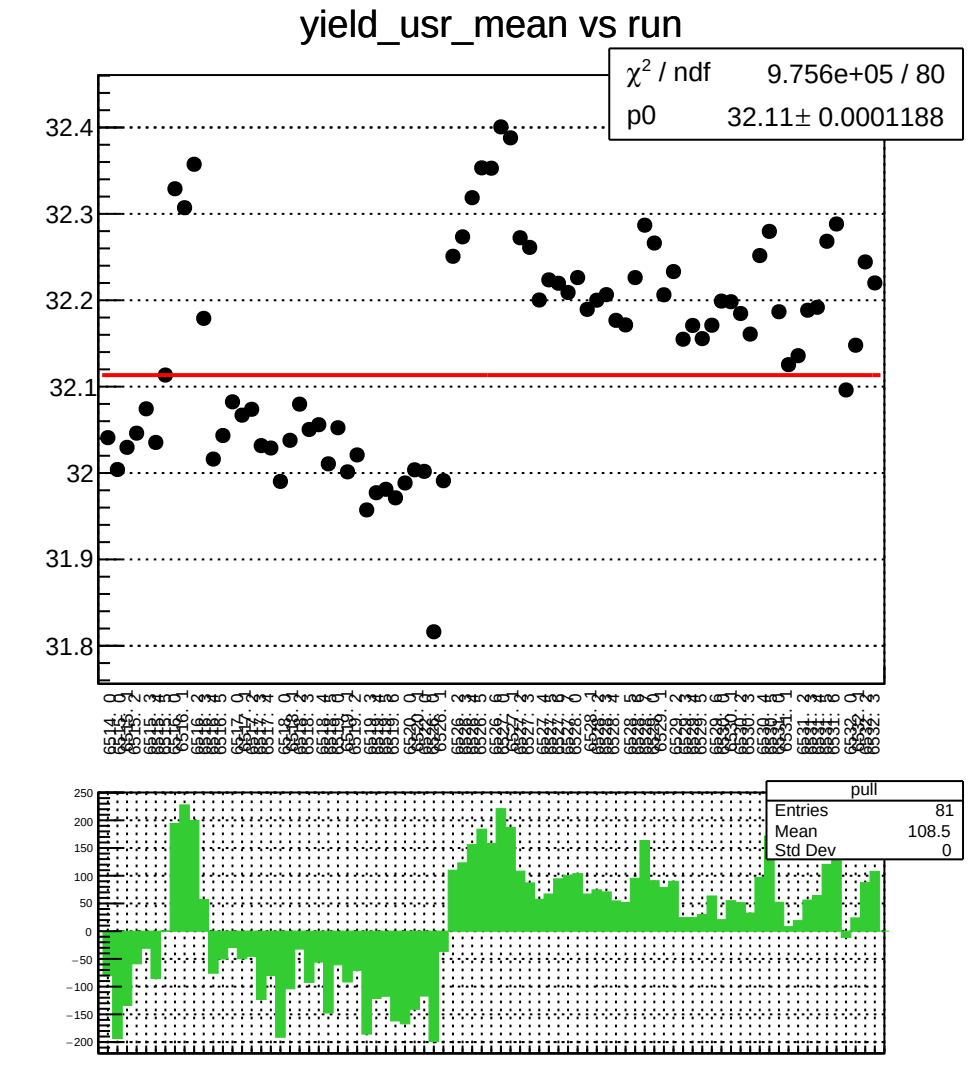

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.13 / 80
p0 −1.867e−14 ± 6.843e−15
pull
Entries 81
Mean −427
Std Dev 0

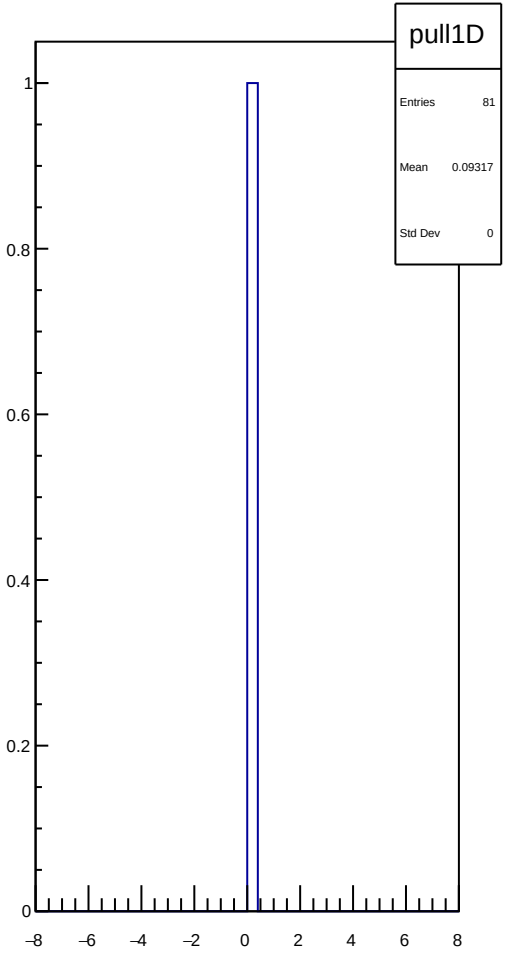

pull1D
Entries 81
Mean 0.006975
Std Dev 1.037

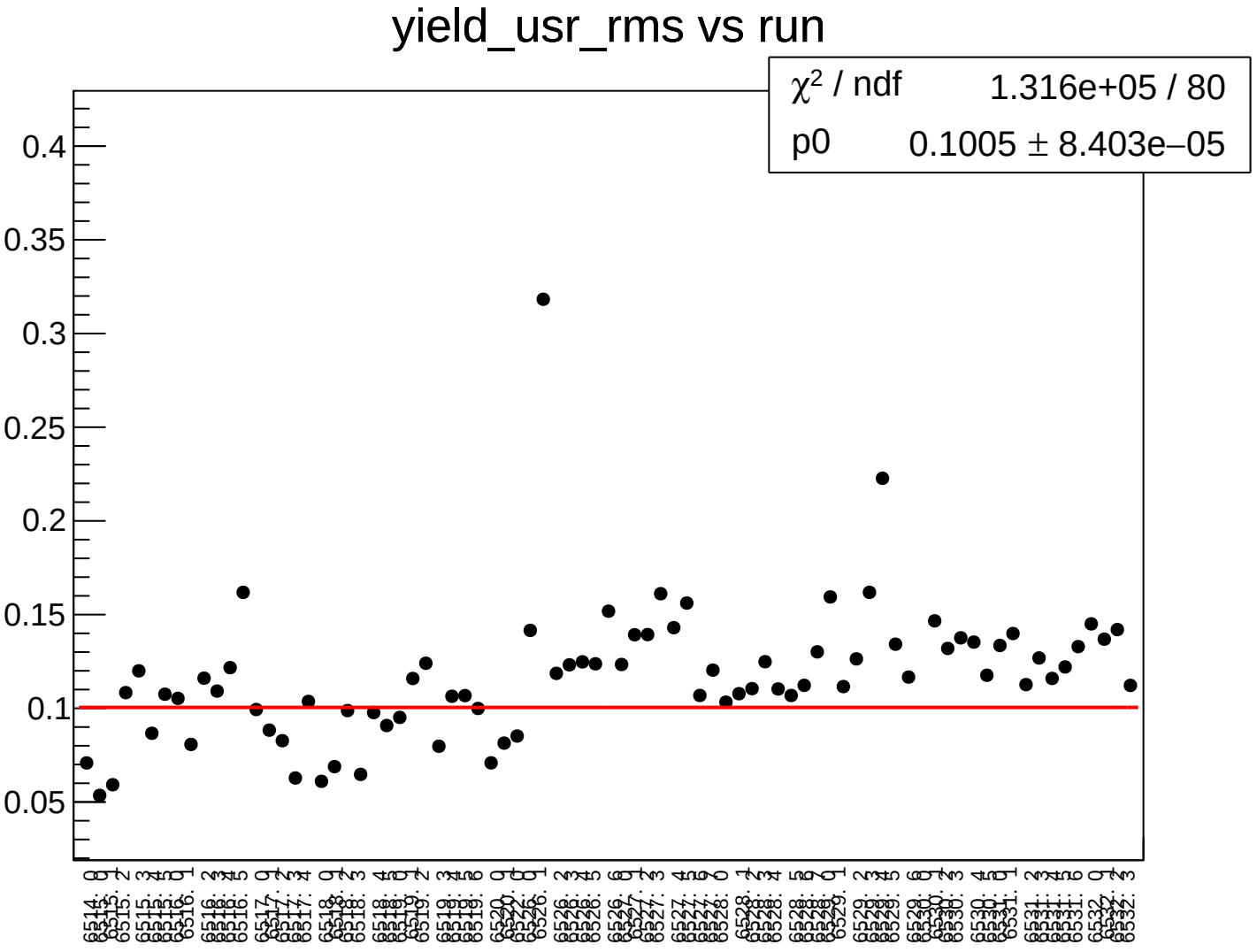

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 8.303e+05 / 80
p0 4.136e−12 ± 4.839e−15
50
40
30
20
10

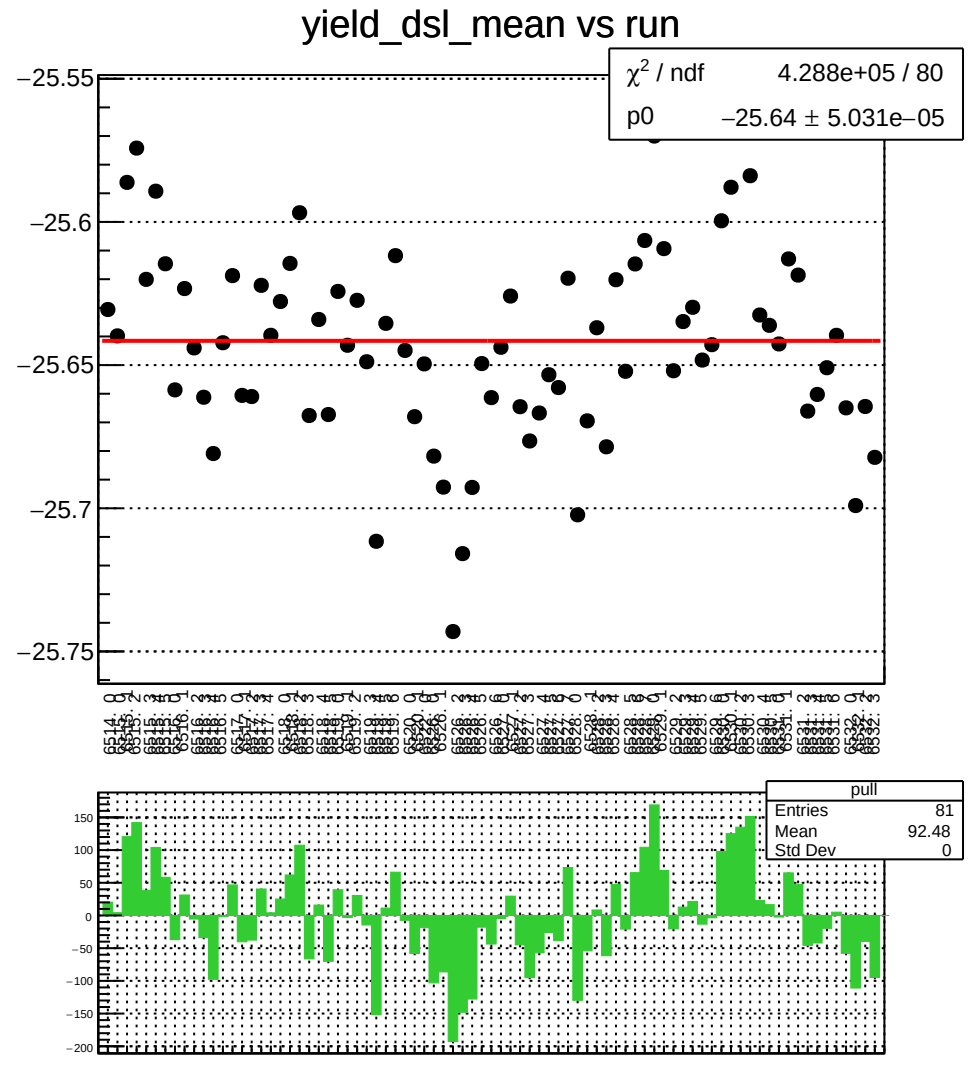

yield_usl_mean vs run
χ² / ndf 1.079e+06 / 80
p0 31.44 ± 0.0001193
31.7
31.6
31.5
31.4
31.3
31.2
31.1
pull
Entries 81
Mean 113
Std Dev 0
400
300
200
100
0
−100
−200
pull1D
Entries 81
Mean −1.7
Std Dev 5.189
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

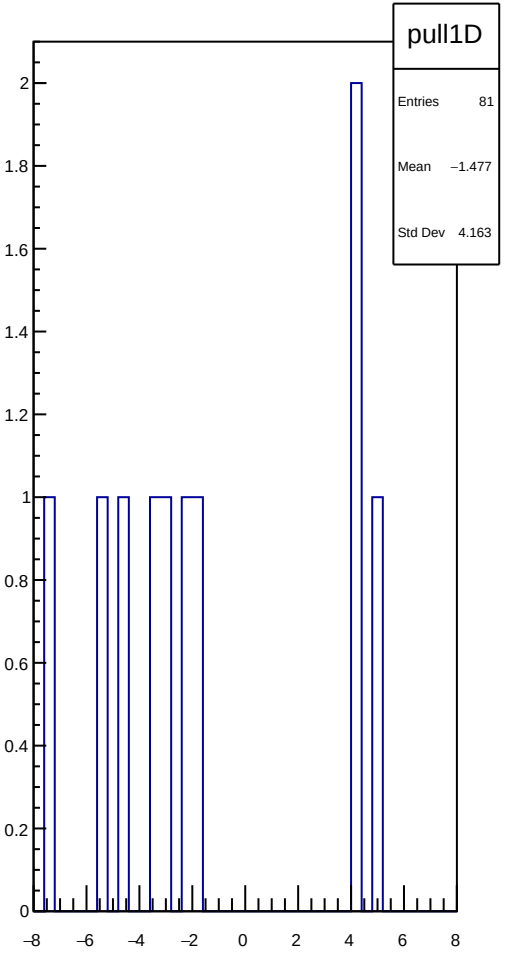

yield_usl_rms vs run
χ² / ndf 1.127e+05 / 80
p0 0.1015 ± 8.437e−05
0.35
0.3
0.25
0.2
0.15
0.1
0.05

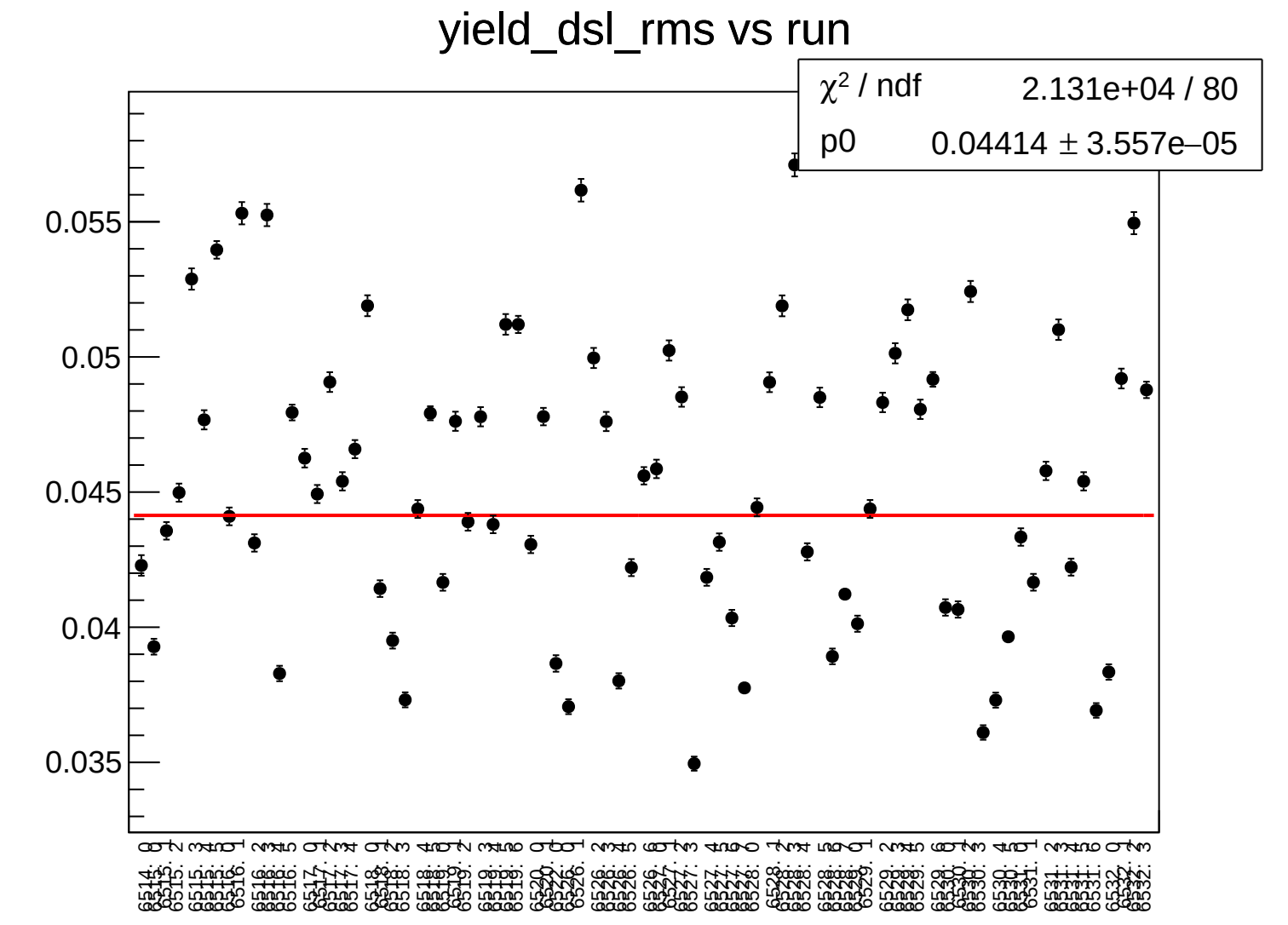

yield_usr_mean vs run
χ² / ndf 9.756e+05 / 80
p0 32.11± 0.0001188
32.4
32.3
32.2
32.1
32
31.9
31.8
pull
Entries 81
Mean 108.5
Std Dev 0
250
200
150
100
50
0
−50
−100
−150
−200

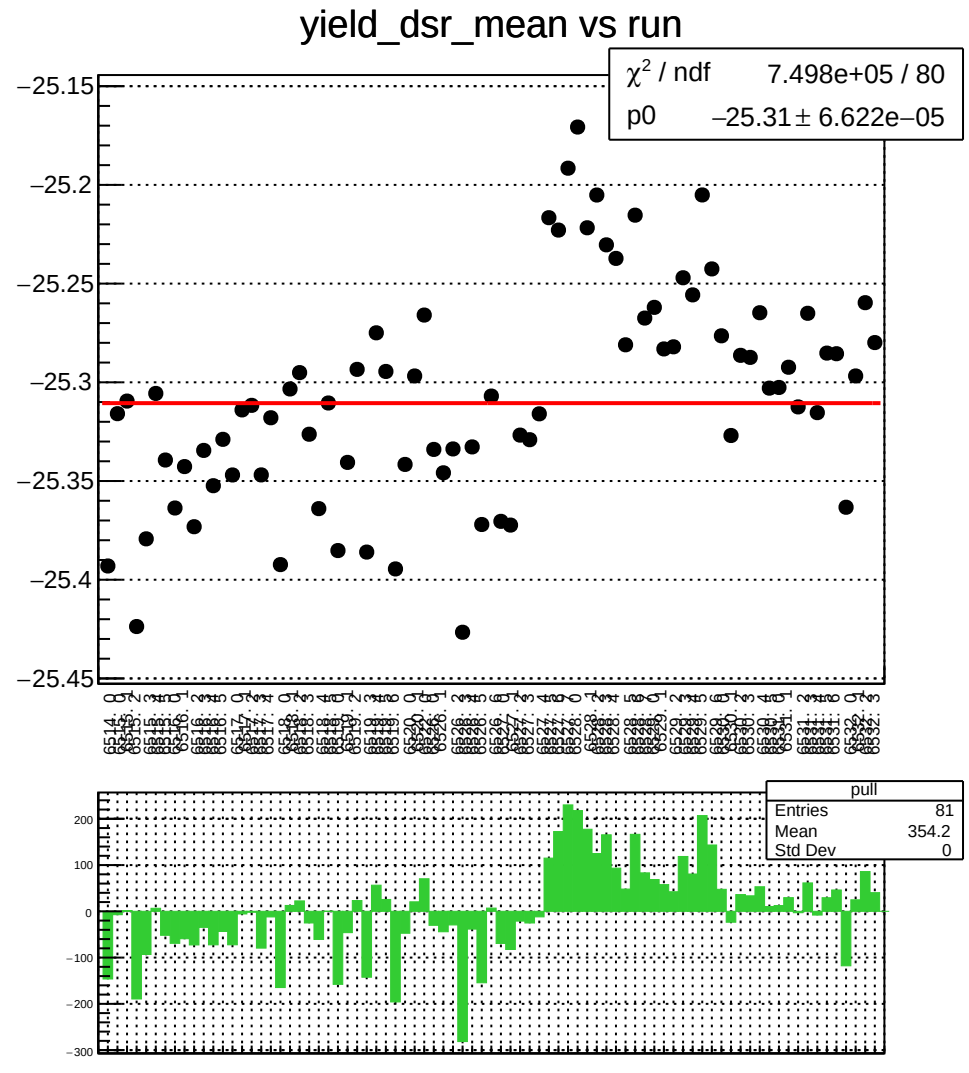

pull1D
Entries 81
Mean 0.09317
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

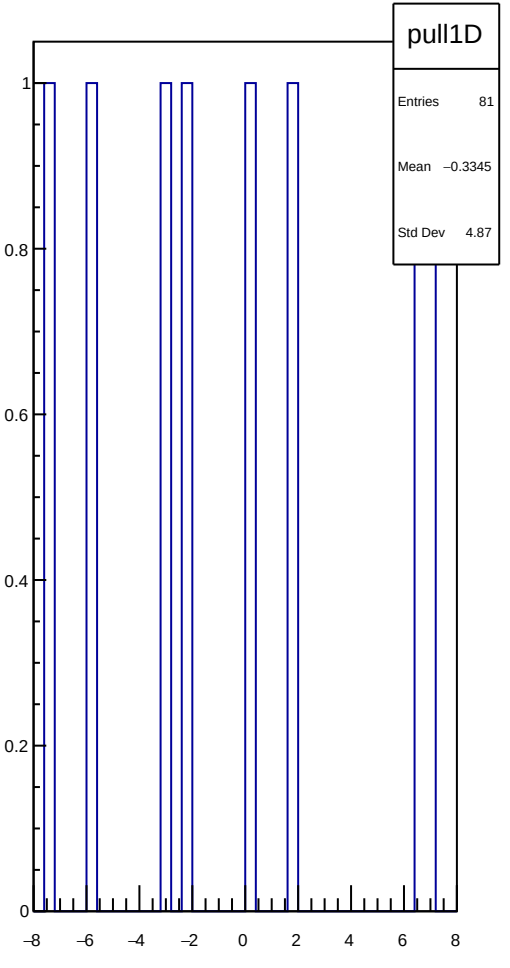

yield_usr_rms vs run
χ² / ndf 1.316e+05 / 80
p0 0.1005 ± 8.403e−05
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

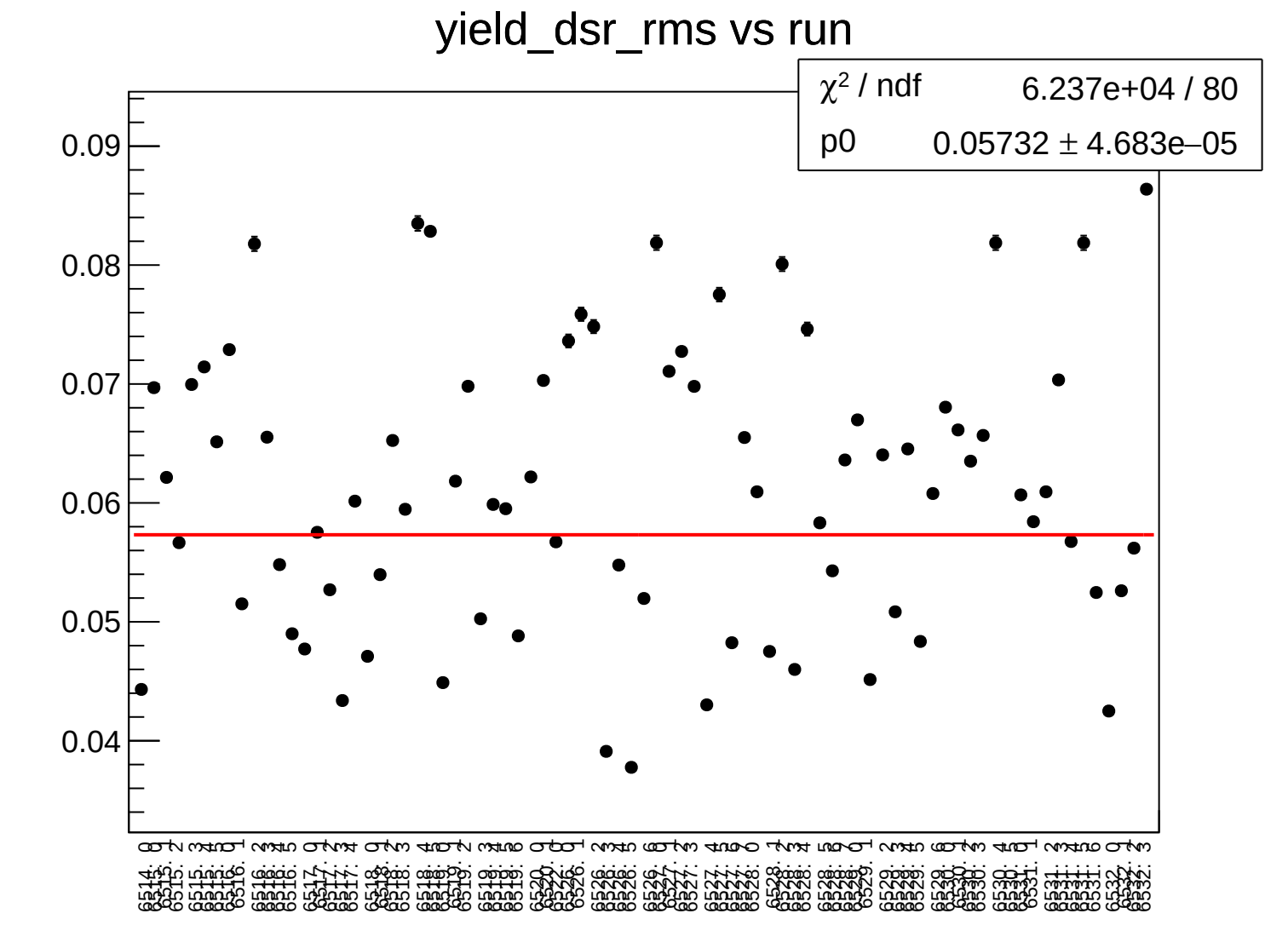

yield_dsl_mean vs run
χ² / ndf 4.288e+05 / 80
p0 −25.64 ± 5.031e−05
−25.55
−25.6
−25.65
−25.7
−25.75
pull
Entries 81
Mean 92.48
Std Dev 0
150
100
50
0
−50
−100
−150
−200

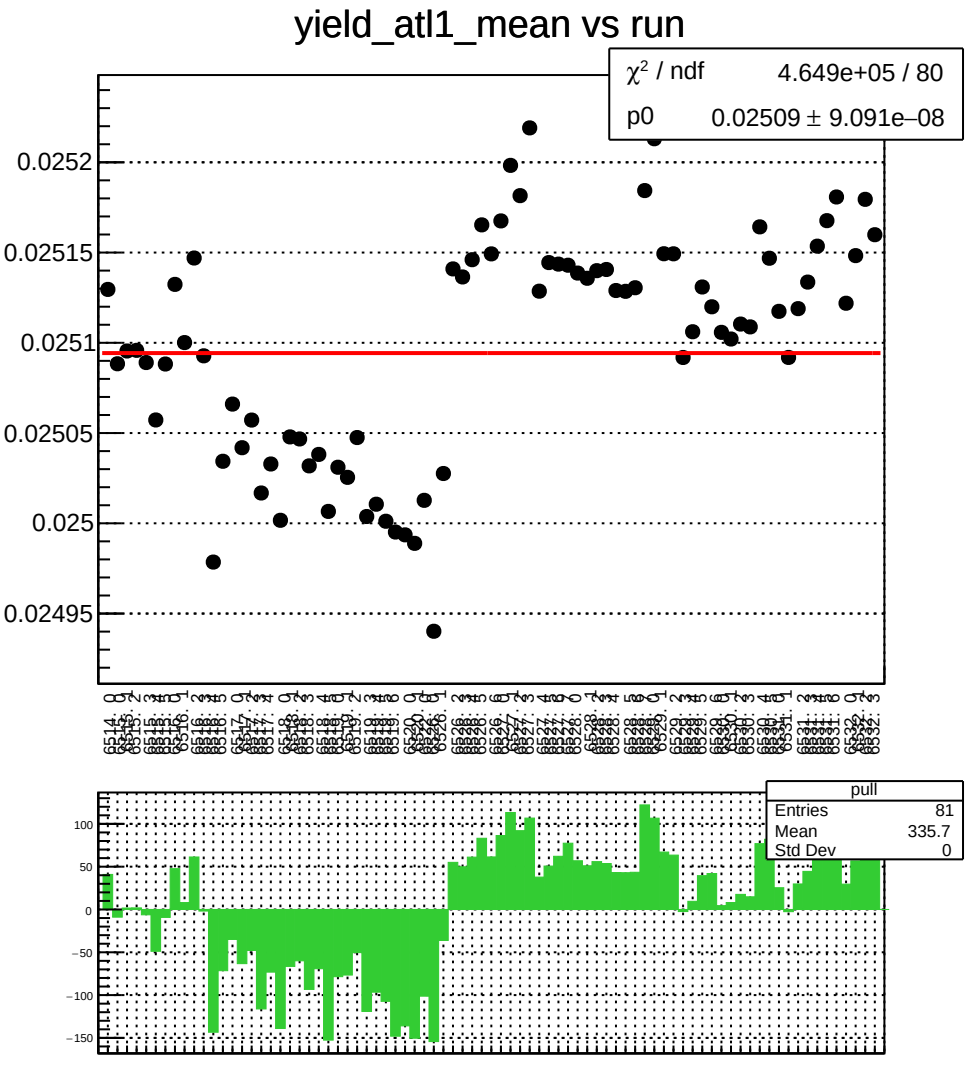

pull1D
Entries 81
Mean −1.477
Std Dev 4.163
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

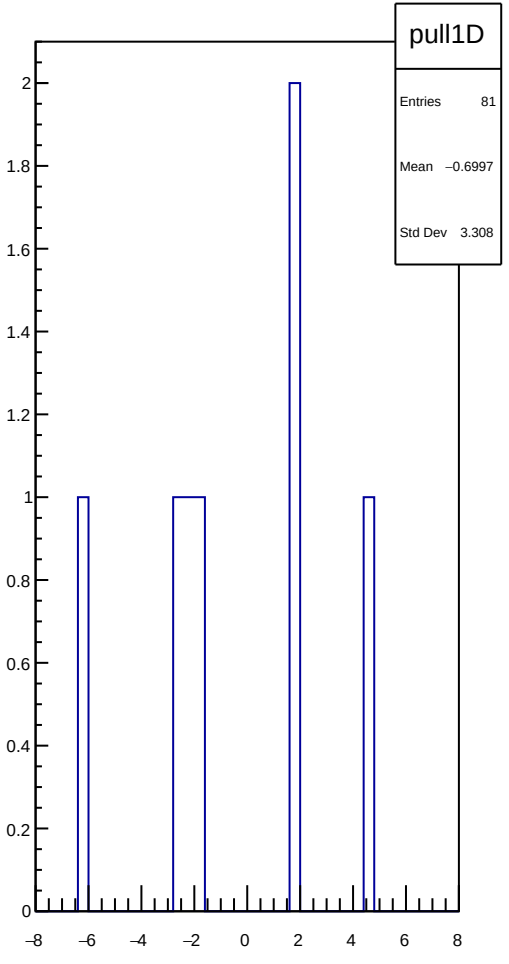

yield_dsl_rms vs run
χ² / ndf 2.131e+04 / 80
p0 0.04414 ± 3.557e−05
0.055
0.05
0.045
0.04
0.035

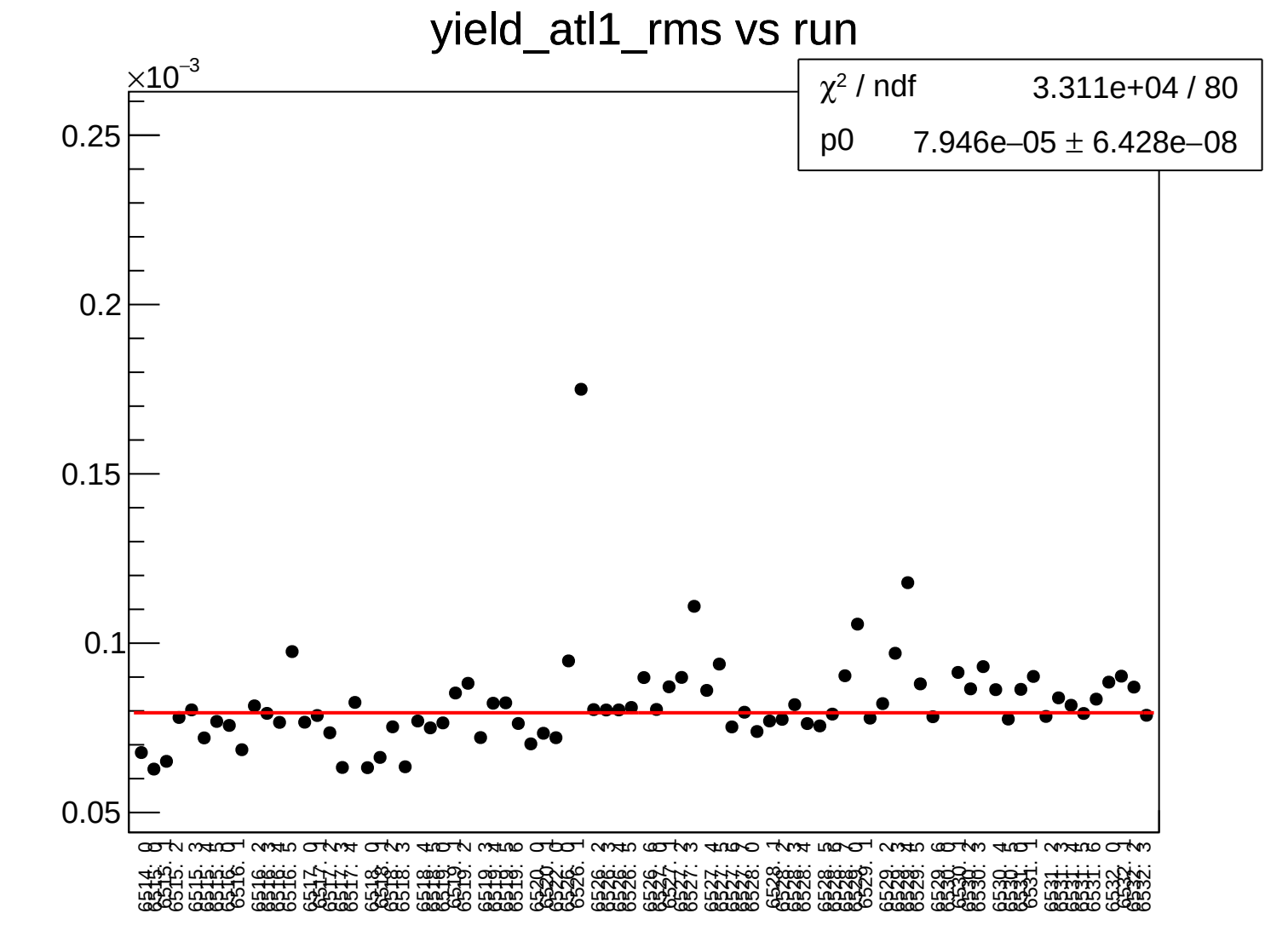

yield_dsr_mean vs run
χ² / ndf 7.498e+05 / 80
p0 −25.31 ± 6.622e−05
−25.15
−25.2
−25.25
−25.3
−25.35
−25.4
−25.45
pull
Entries 81
Mean 354.2
Std Dev 0
200
100
0
−100
−200
−300

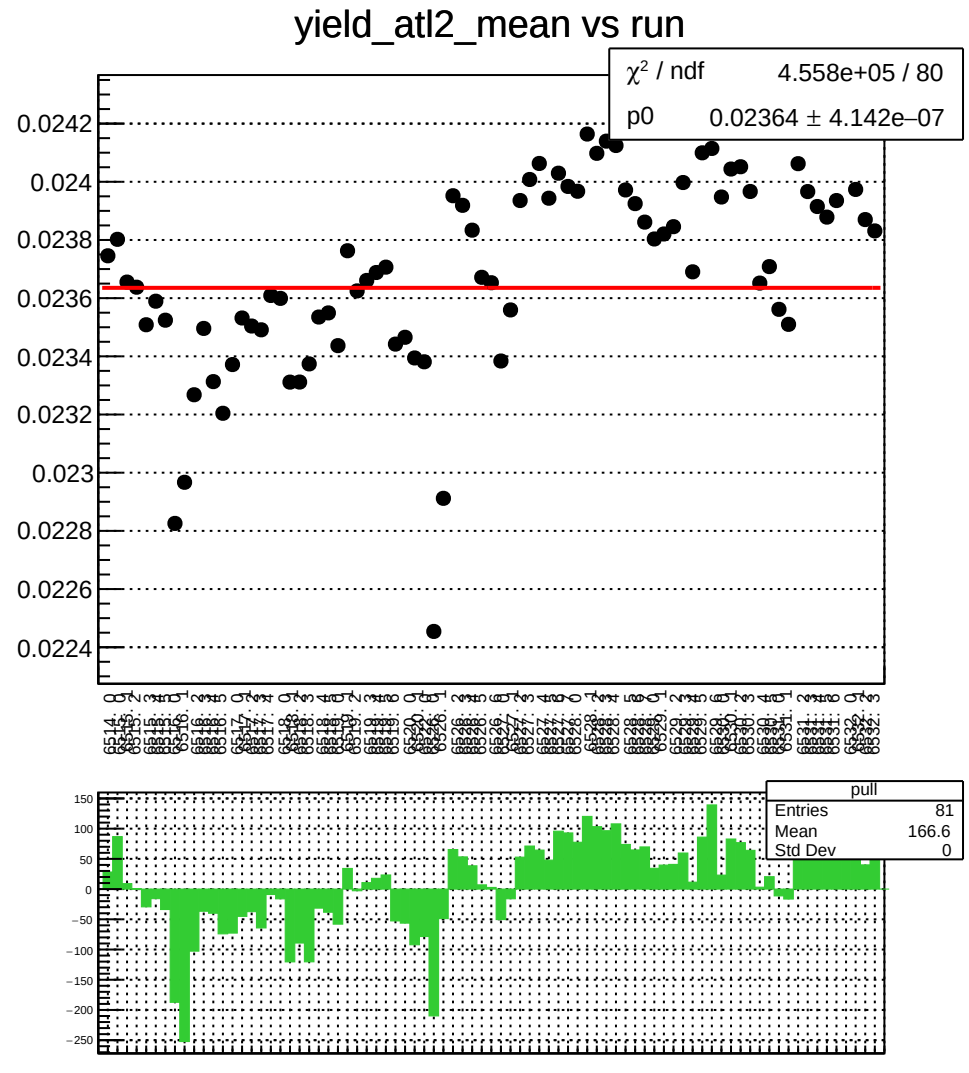

pull1D
Entries 81
Mean −0.3345
Std Dev 4.87
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

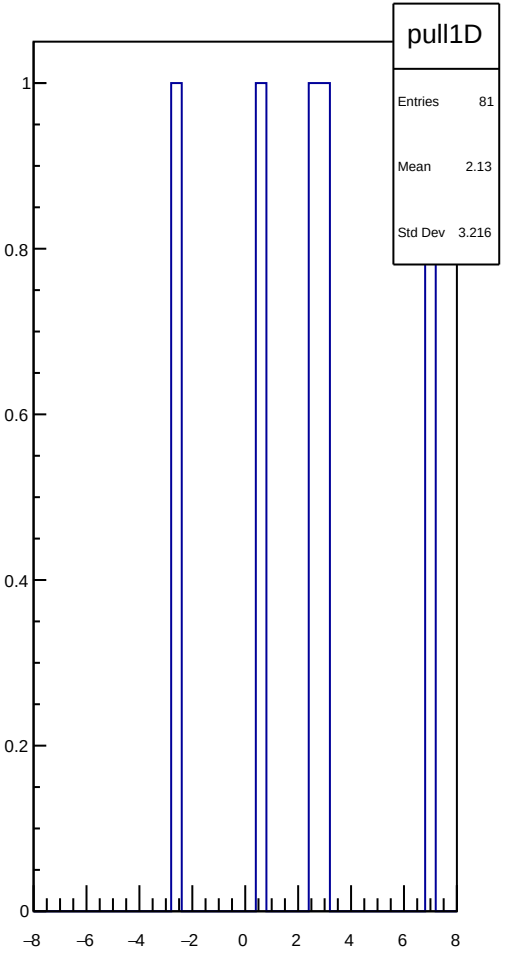

yield_dsr_rms vs run
χ² / ndf 6.237e+04 / 80
p0 0.05732 ± 4.683e−05
0.09
0.08
0.07
0.06
0.05
0.04

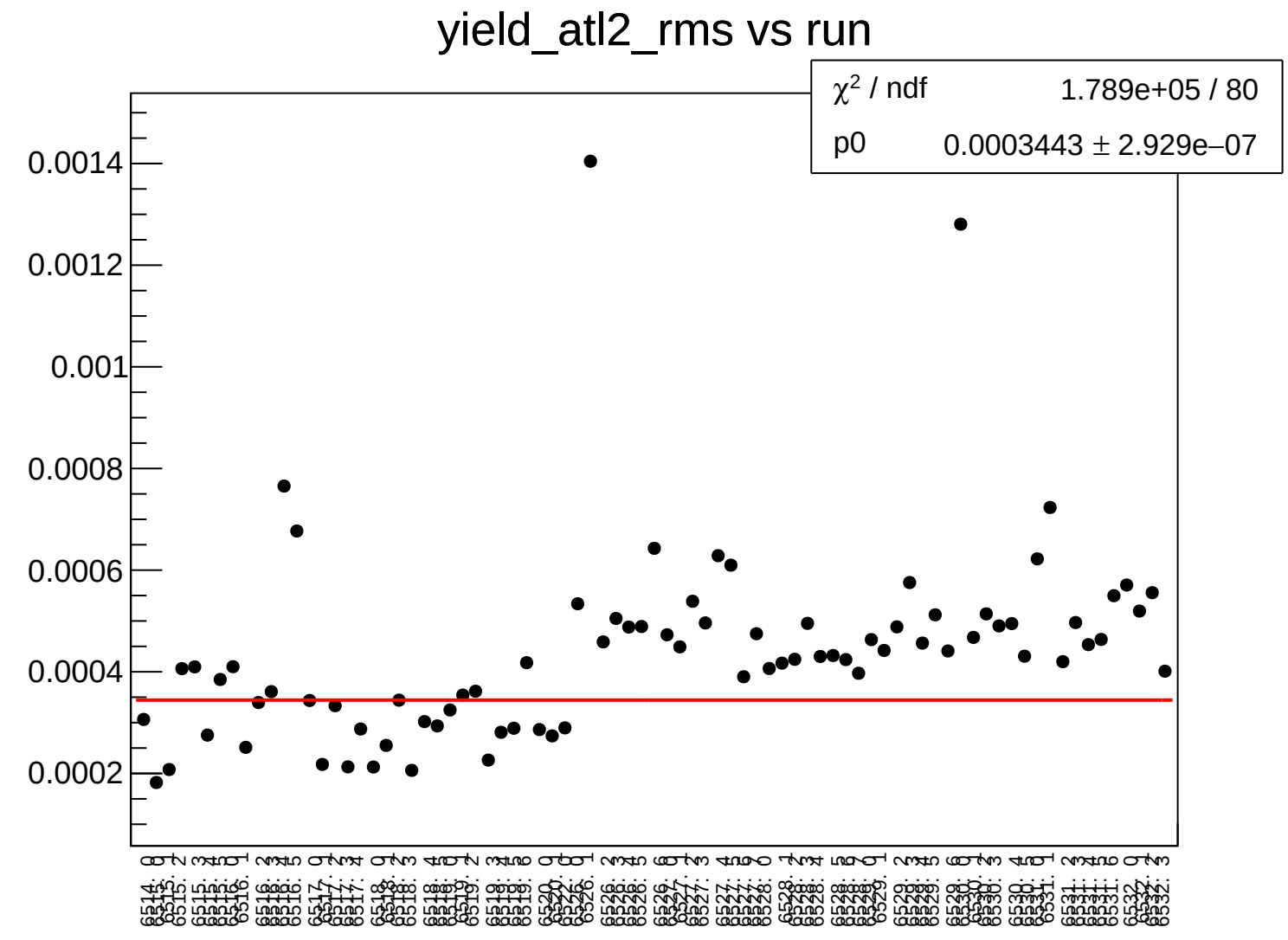

yield_atl1_mean vs run
χ² / ndf 4.649e+05 / 80
p0 0.02509 ± 9.091e−08
0.0252
0.02515
0.0251
0.02505
0.025
0.02495
pull
Entries 81
Mean 335.7
Std Dev 0
100
50
0
−50
−100
−150

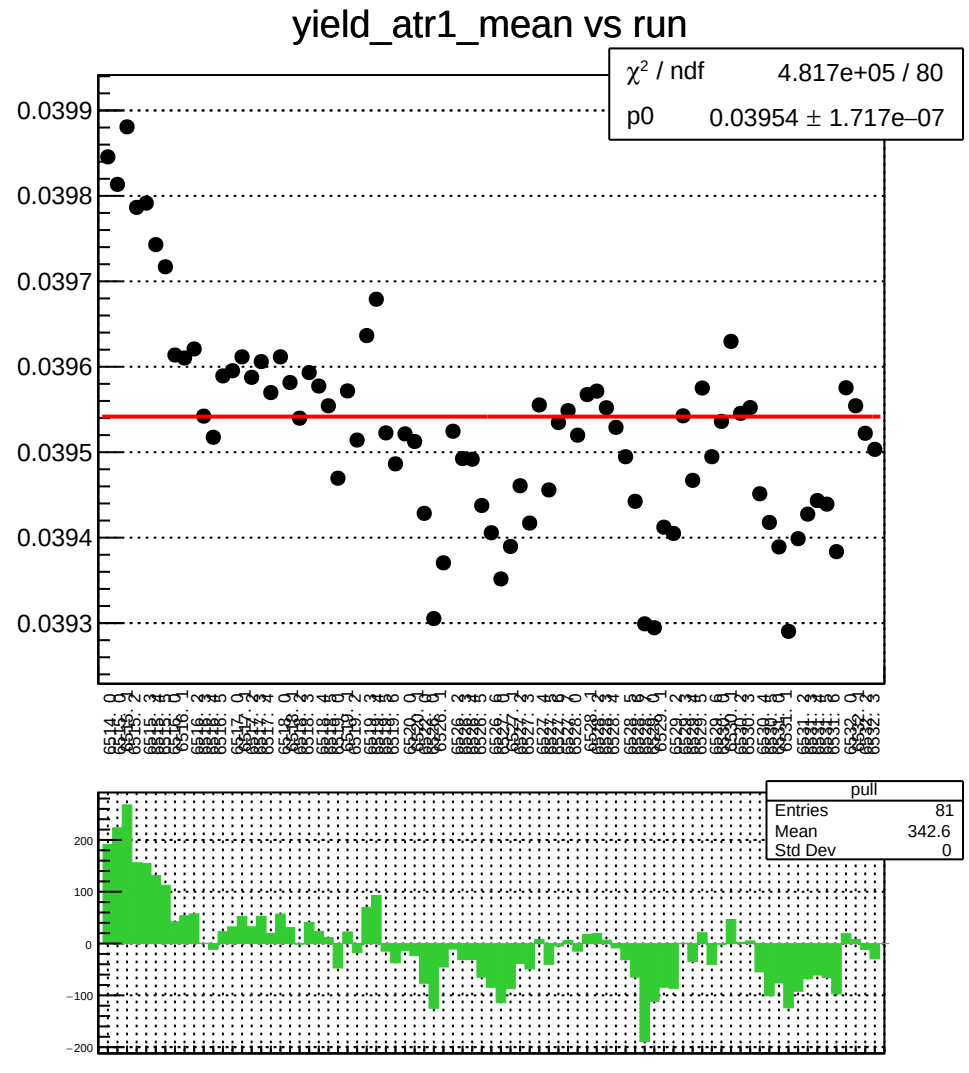

pull1D
Entries 81
Mean −0.6997
Std Dev 3.308
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

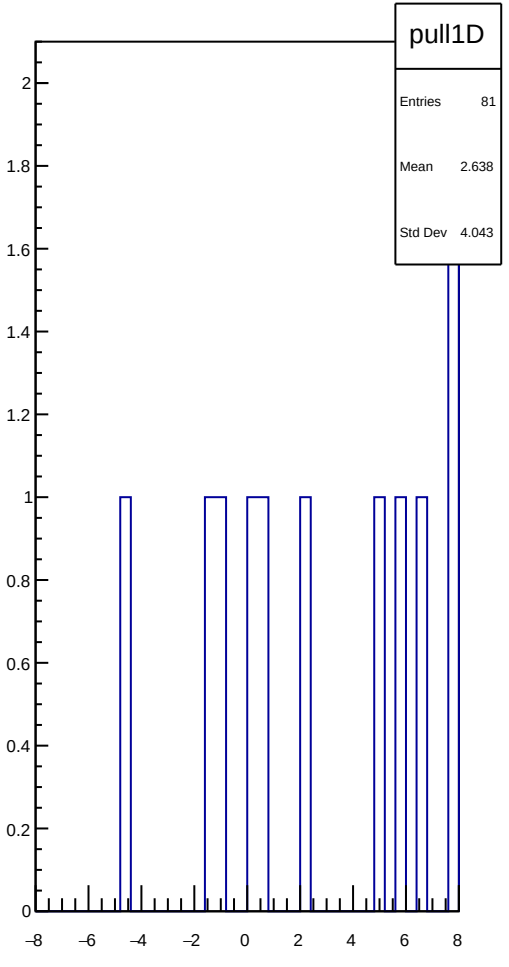

yield_atl1_rms vs run
×10⁻³
χ² / ndf 3.311e+04 / 80
p0 7.946e−05 ± 6.428e−08
0.25
0.2
0.15
0.1
0.05

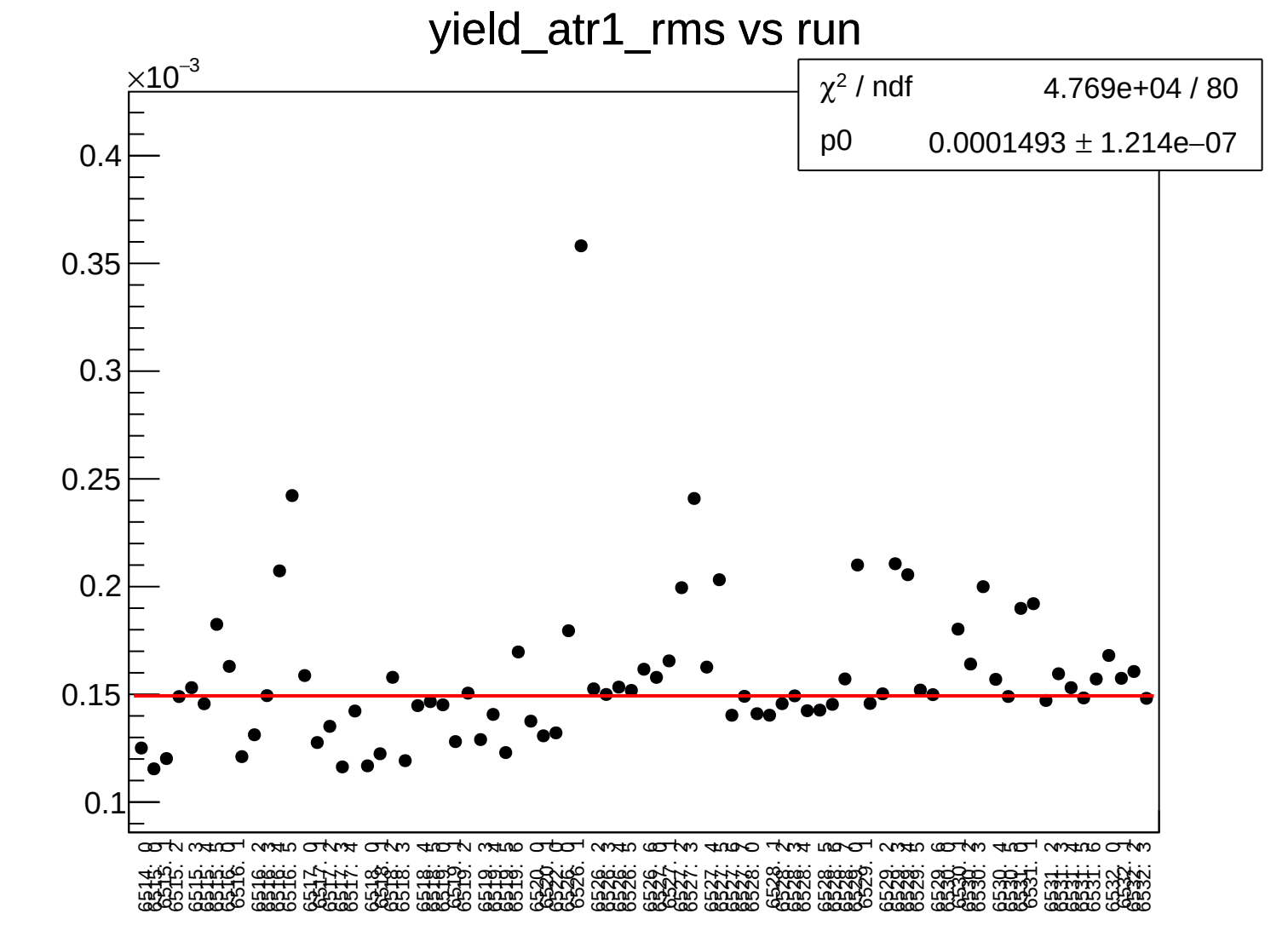

yield_atl2_mean vs run
χ² / ndf 4.558e+05 / 80
p0 0.02364 ± 4.142e–07
0.0242
0.024
0.0238
0.0236
0.0234
0.0232
0.023
0.0228
0.0226
0.0224
pull
Entries 81
Mean 166.6
Std Dev 0
150
100
50
0
−50
−100
−150
−200
−250

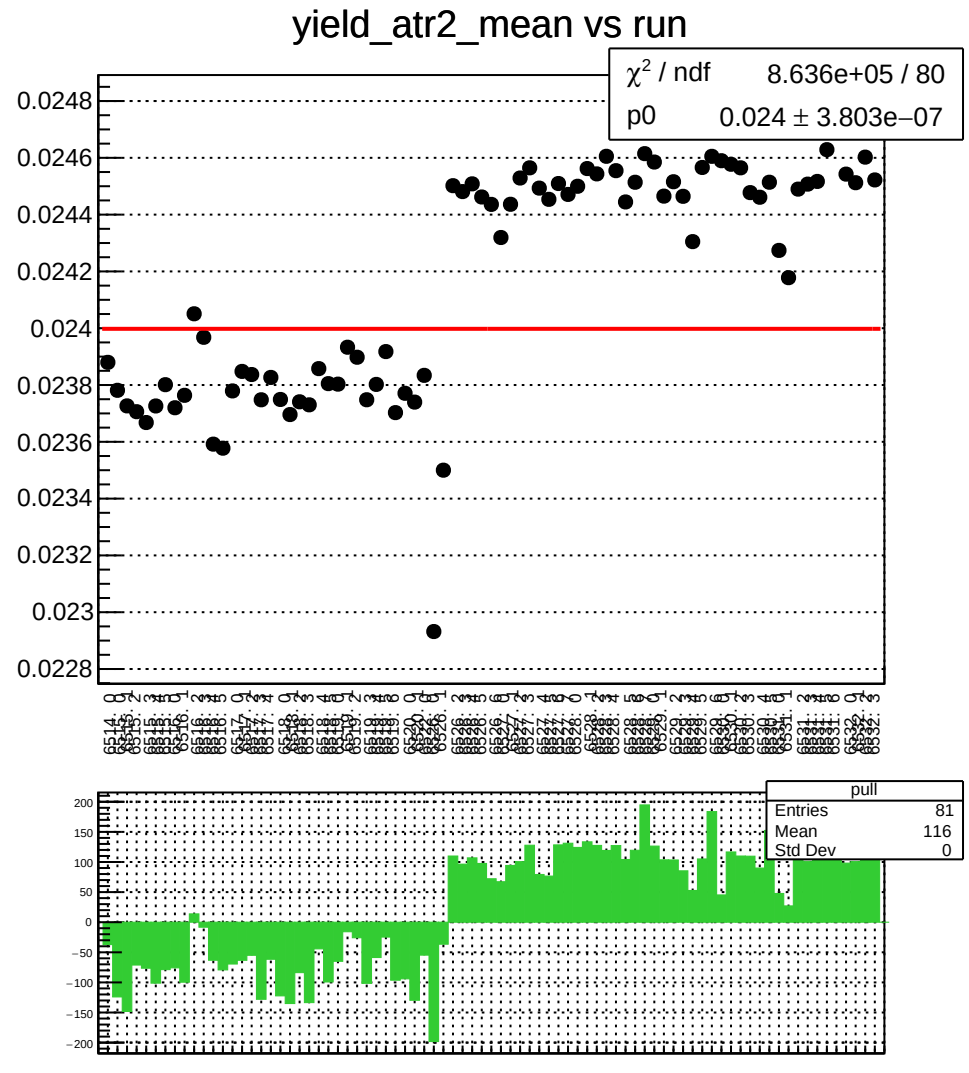

pull1D
Entries 81
Mean 2.13
Std Dev 3.216
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

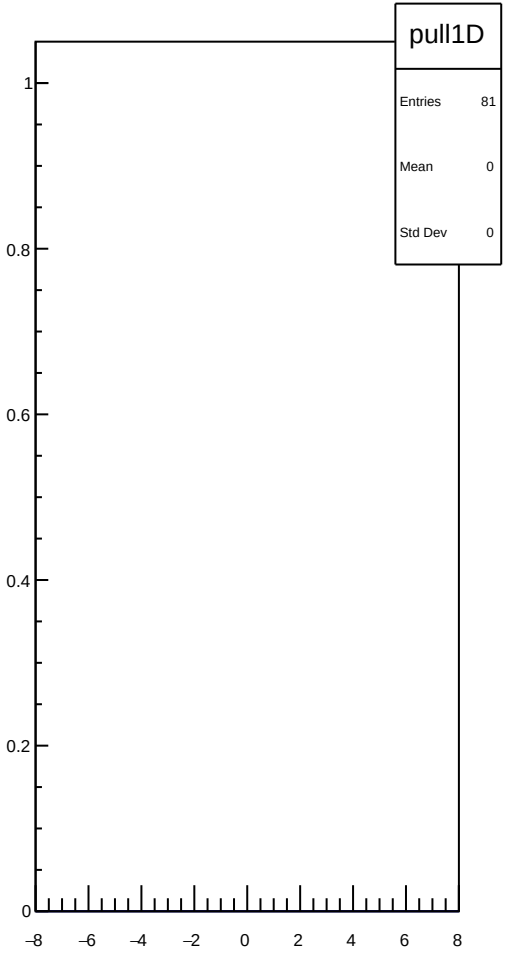

yield_atl2_rms vs run
χ² / ndf 1.789e+05 / 80
p0 0.0003443 ± 2.929e−07
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

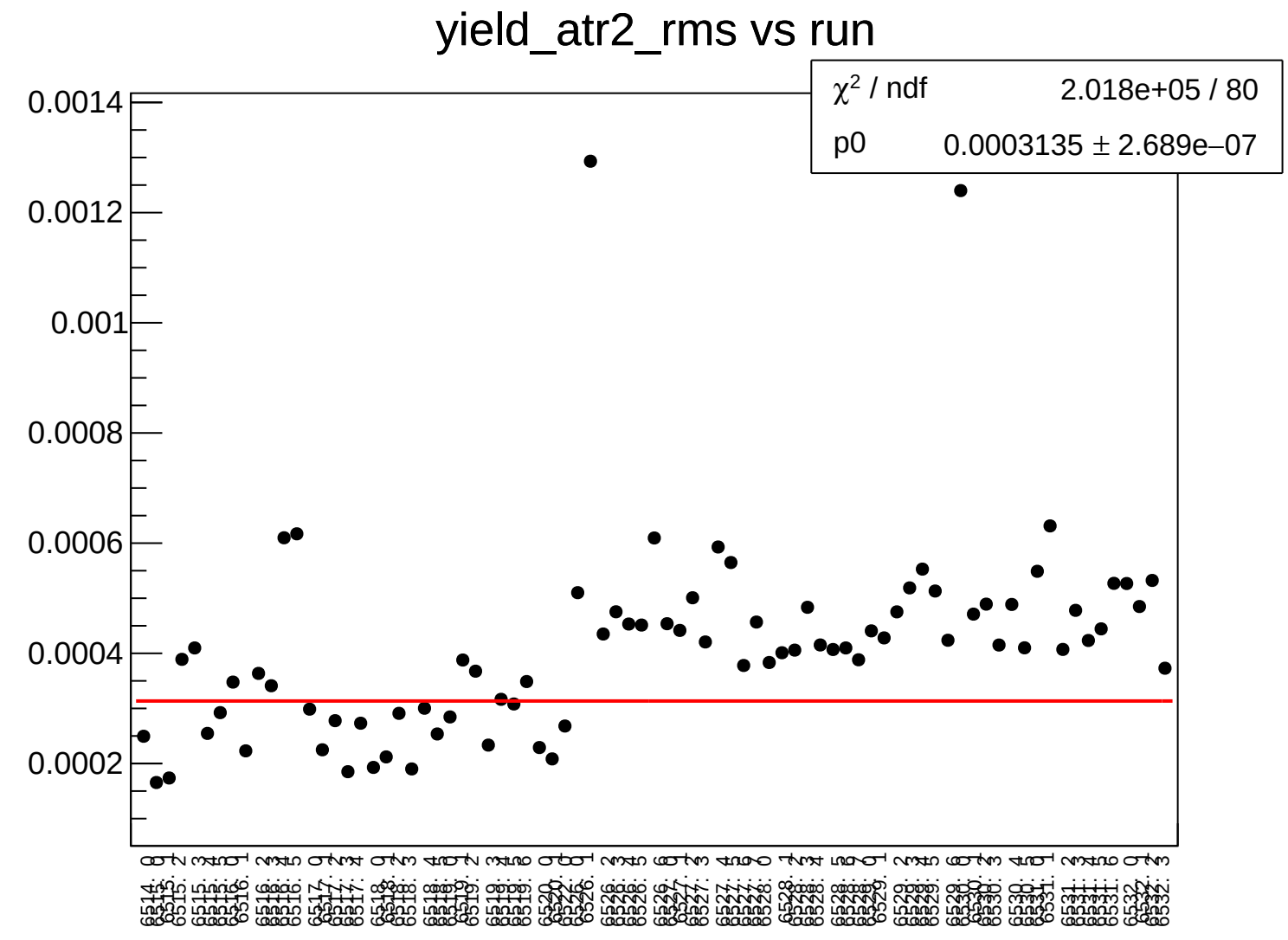

yield_atr1_mean vs run
χ² / ndf 4.817e+05 / 80
p0 0.03954 ± 1.717e−07
0.0399
0.0398
0.0397
0.0396
0.0395
0.0394
0.0393
pull
Entries 81
Mean 342.6
Std Dev 0
200
100
0
−100
−200

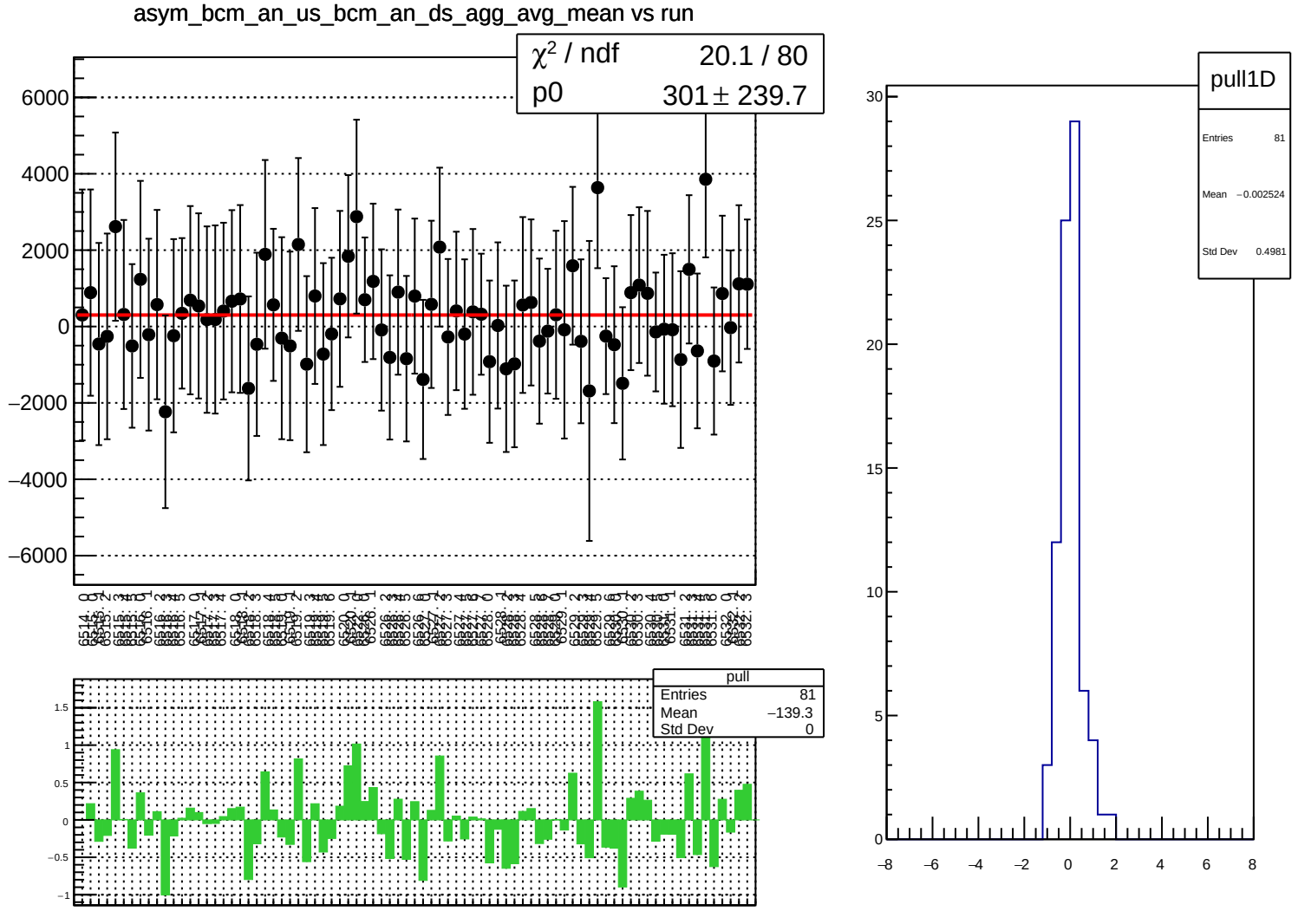

pull1D
Entries 81
Mean 2.638
Std Dev 4.043
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

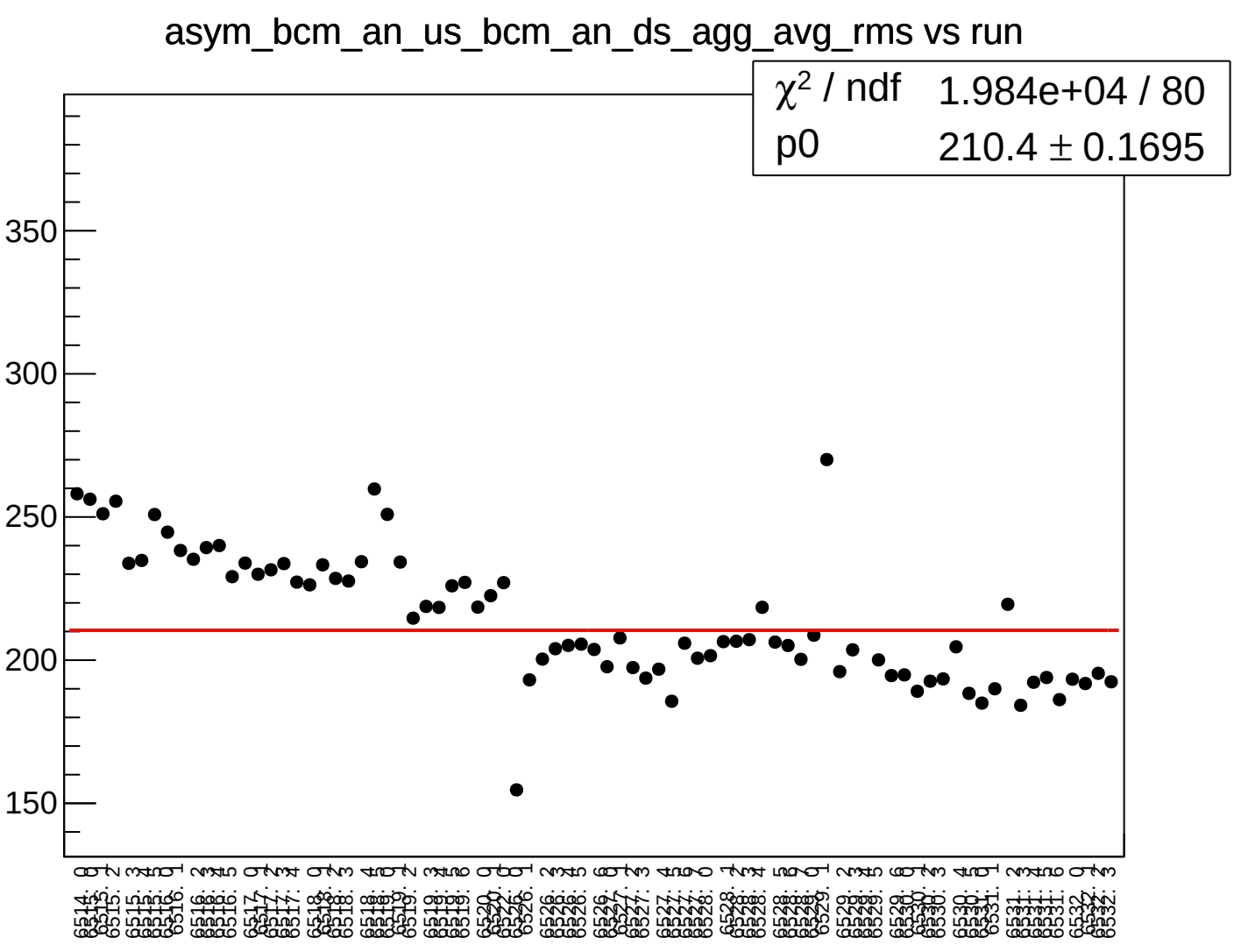

yield_atr1_rms vs run
×10⁻³
χ² / ndf 4.769e+04 / 80
p0 0.0001493 ± 1.214e−07
0.4
0.35
0.3
0.25
0.2
0.15
0.1

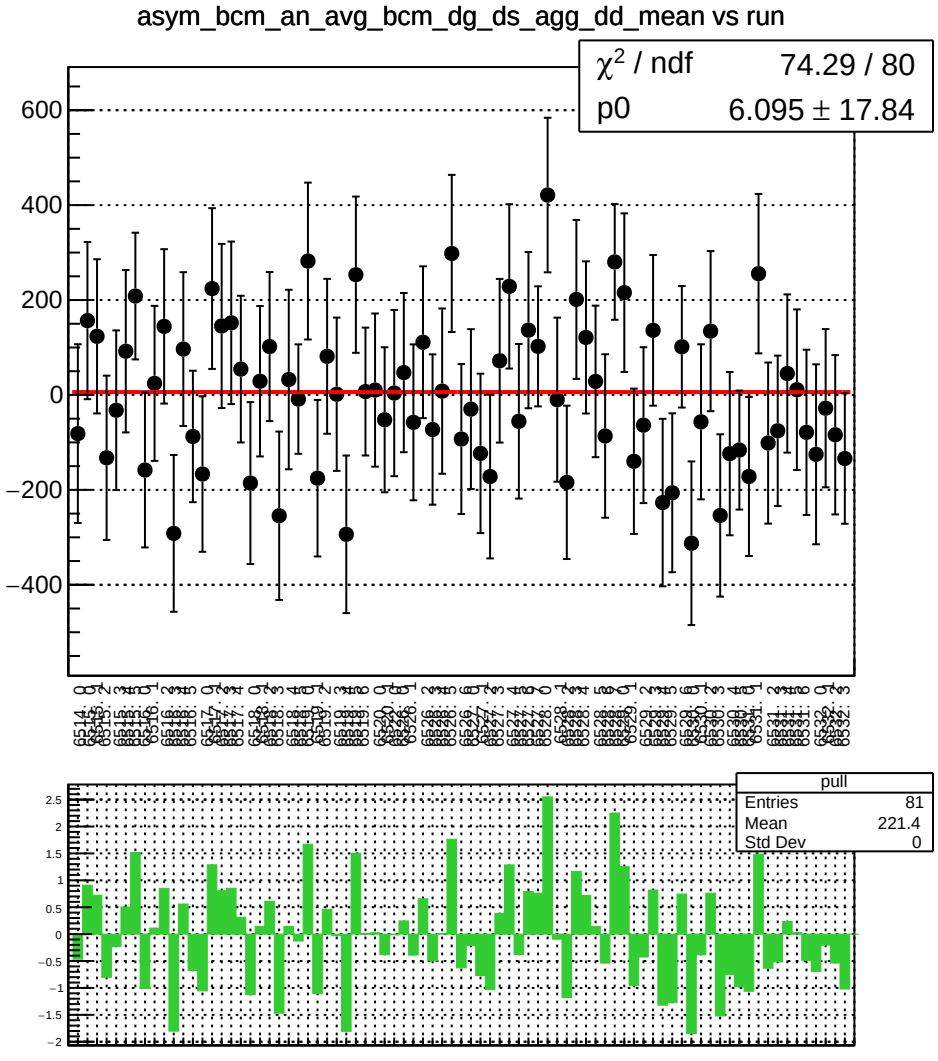

yield_atr2_mean vs run
χ² / ndf 8.636e+05 / 80
p0 0.024 ± 3.803e−07
0.0248
0.0246
0.0244
0.0242
0.024
0.0238
0.0236
0.0234
0.0232
0.023
0.0228
pull
Entries 81
Mean 116
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

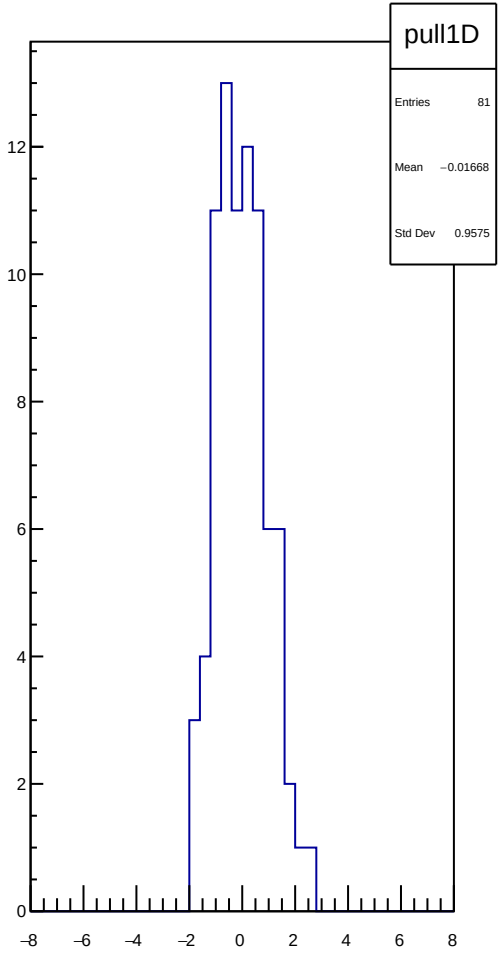

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

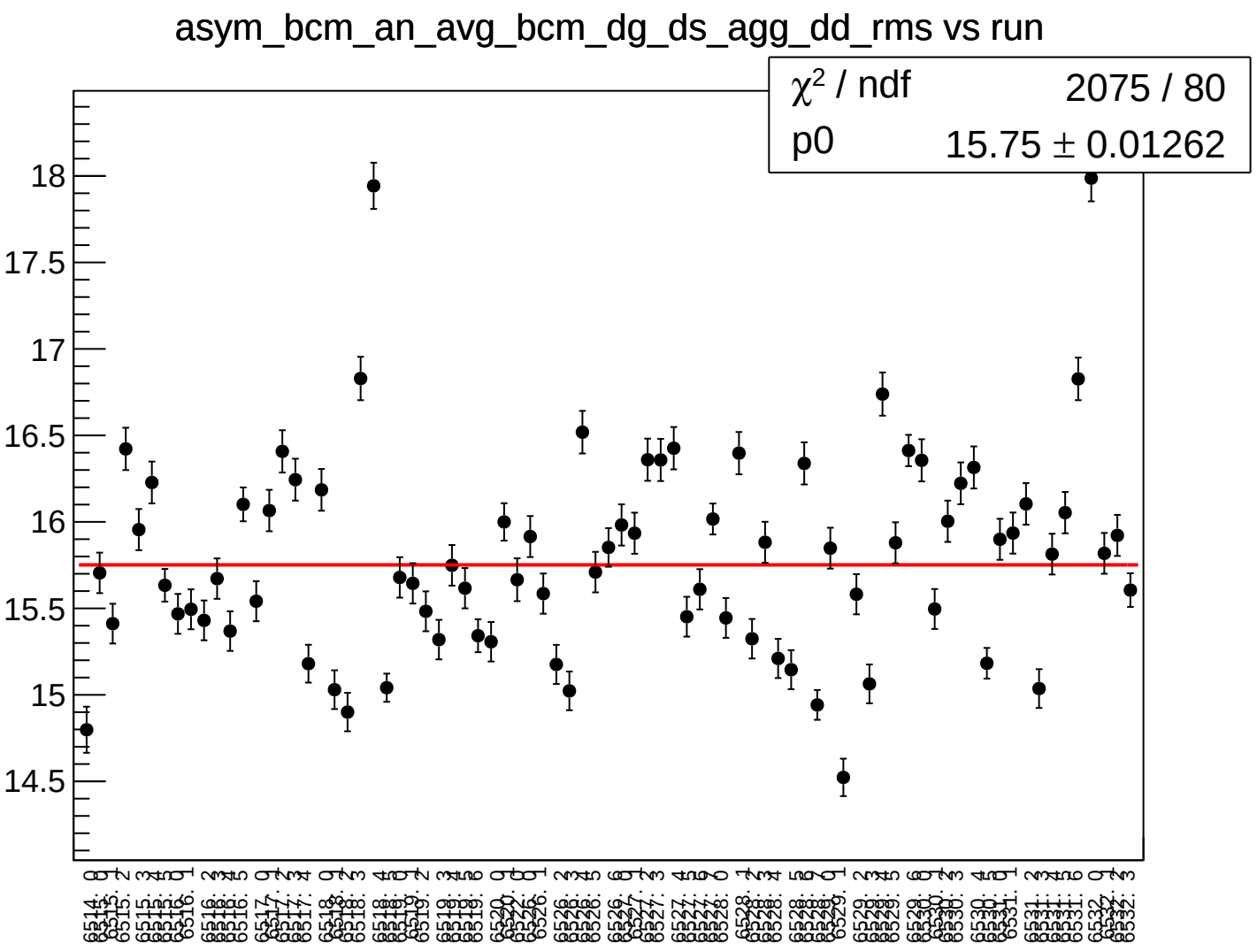

yield_atr2_rms vs run
χ² / ndf 2.018e+05 / 80
p0 0.0003135 ± 2.689e−07
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

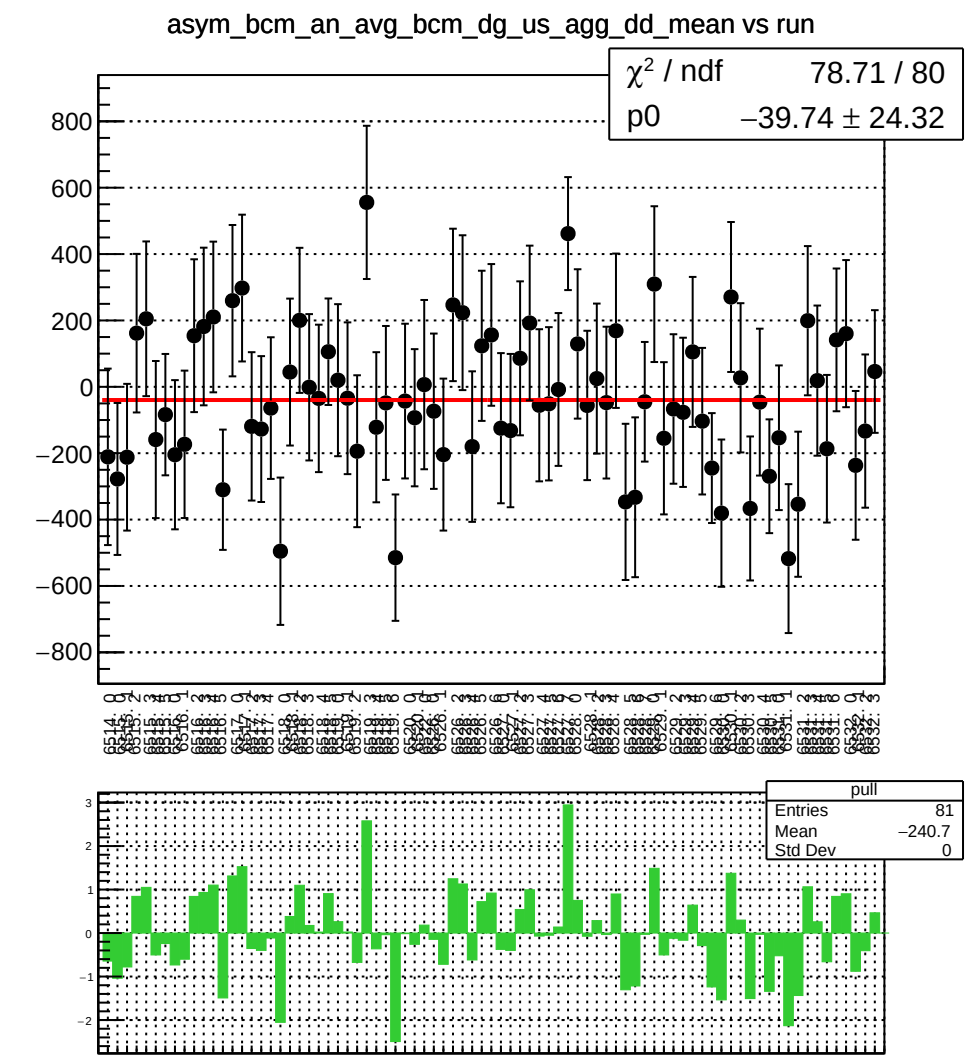

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 20.1 / 80
p0 301 ± 239.7
pull
Entries 81
Mean −139.3
Std Dev 0
pull1D
Entries 81
Mean −0.002524
Std Dev 0.4981

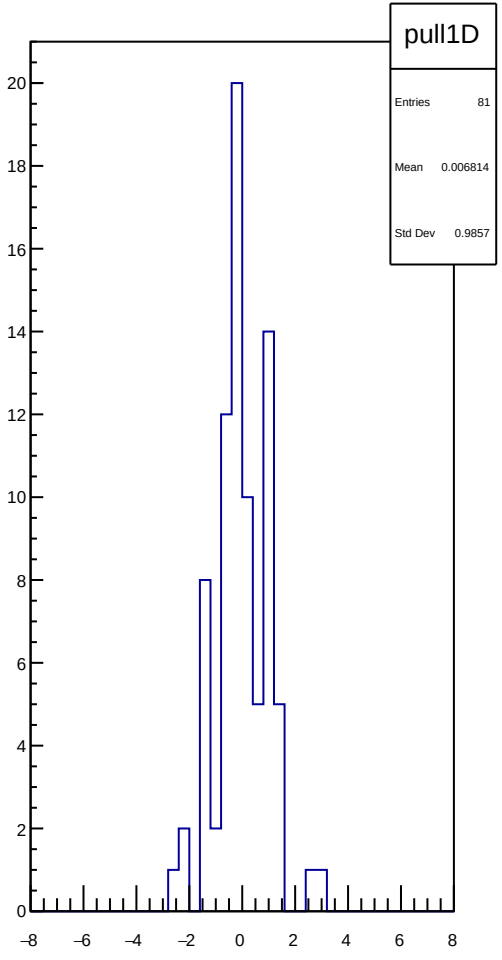

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.984e+04 / 80
p0 210.4 ± 0.1695
350
300
250
200
150

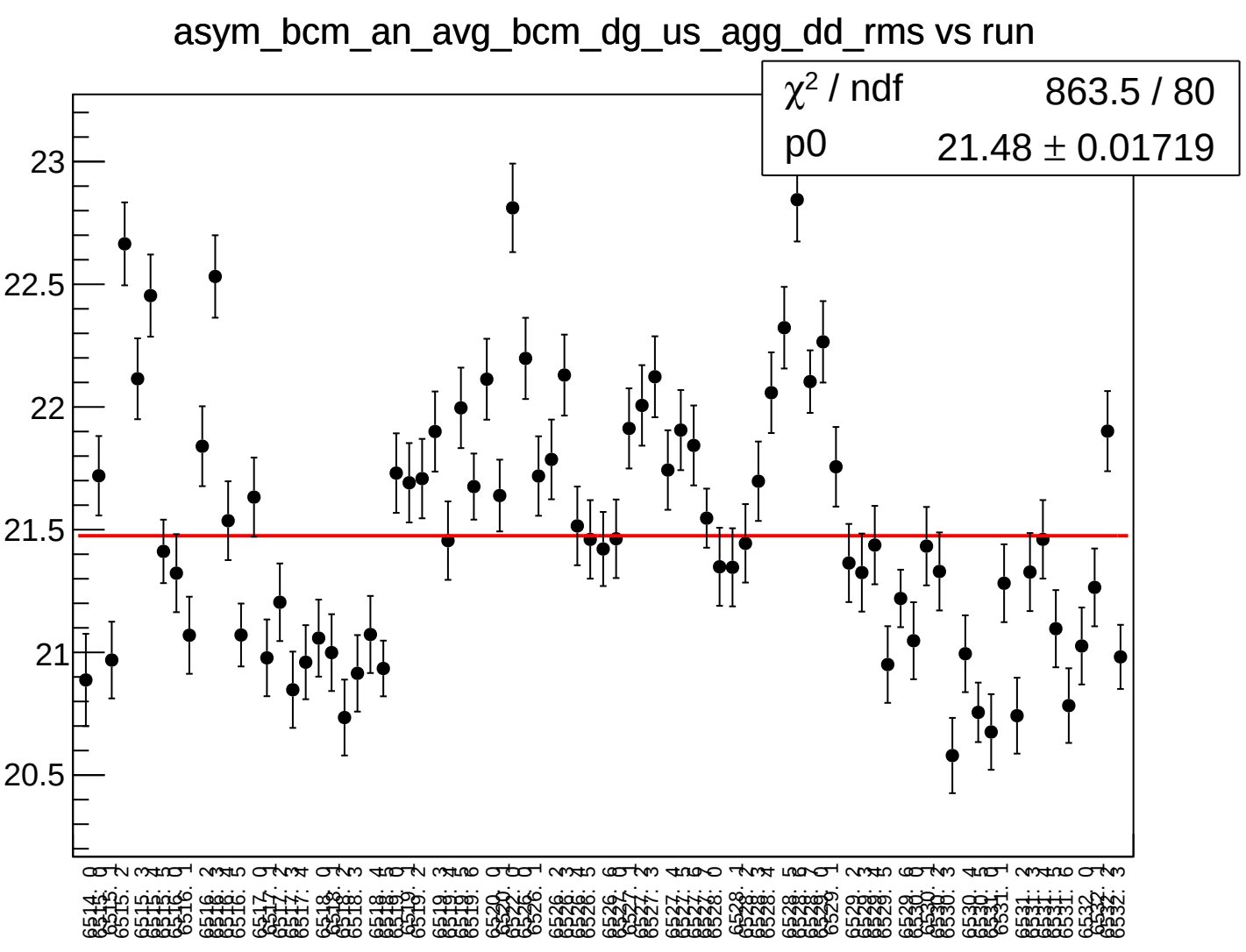

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 74.29 / 80
p0 6.095 ± 17.84
pull
Entries 81
Mean 221.4
Std Dev 0

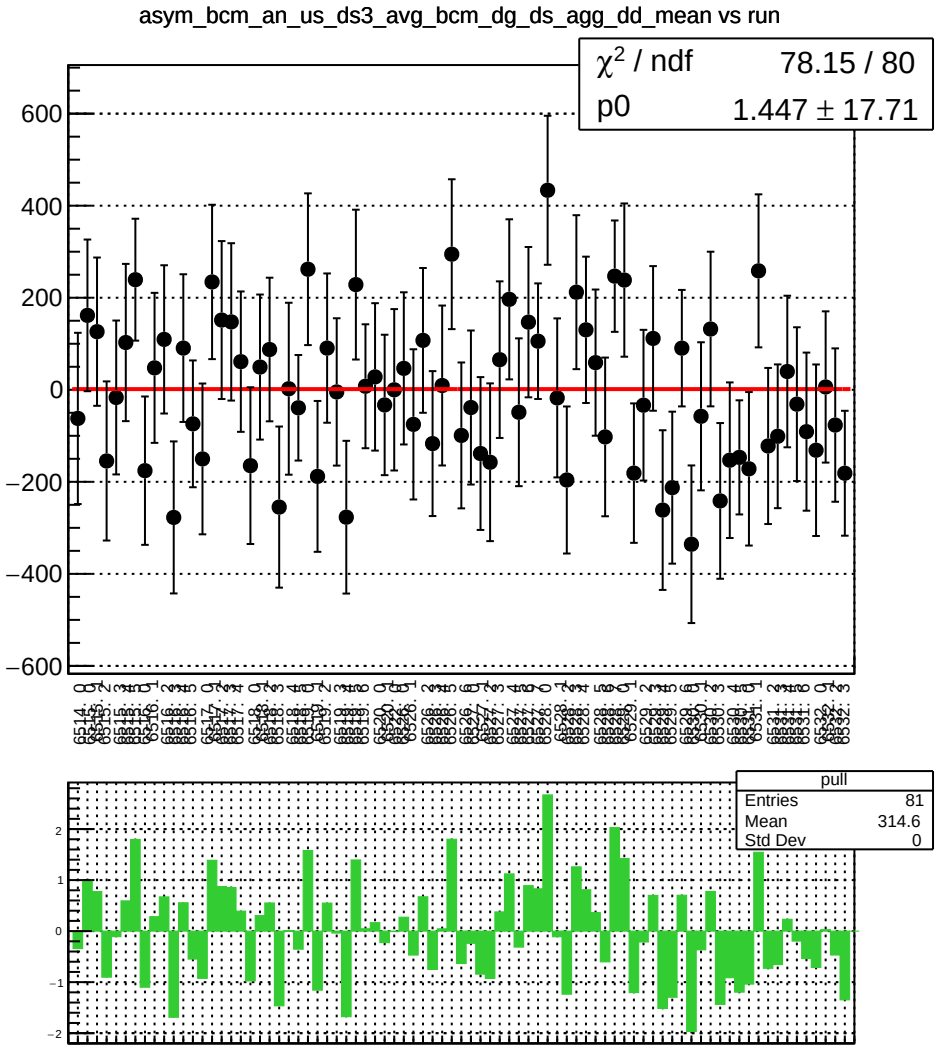

pull1D
Entries 81
Mean −0.01668
Std Dev 0.9575

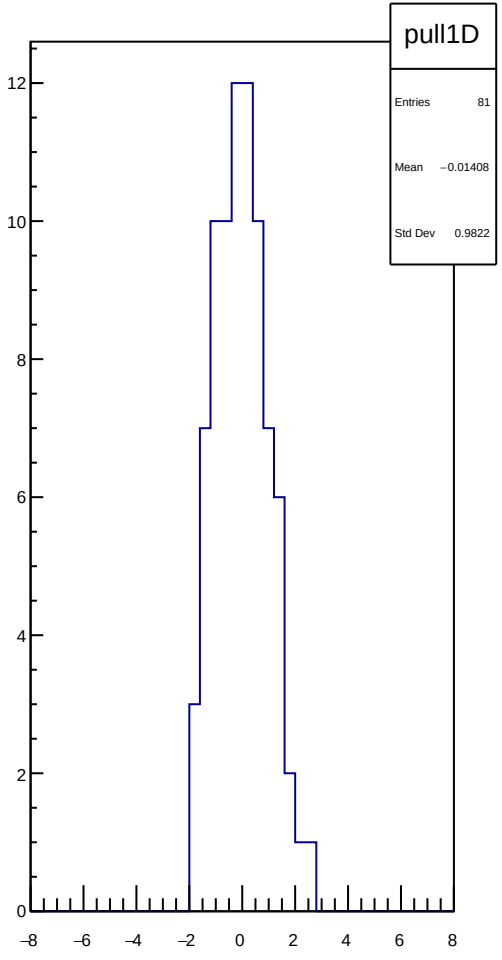

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2075 / 80
p0 15.75 ± 0.01262
18
17.5
17
16.5
16
15.5
15
14.5

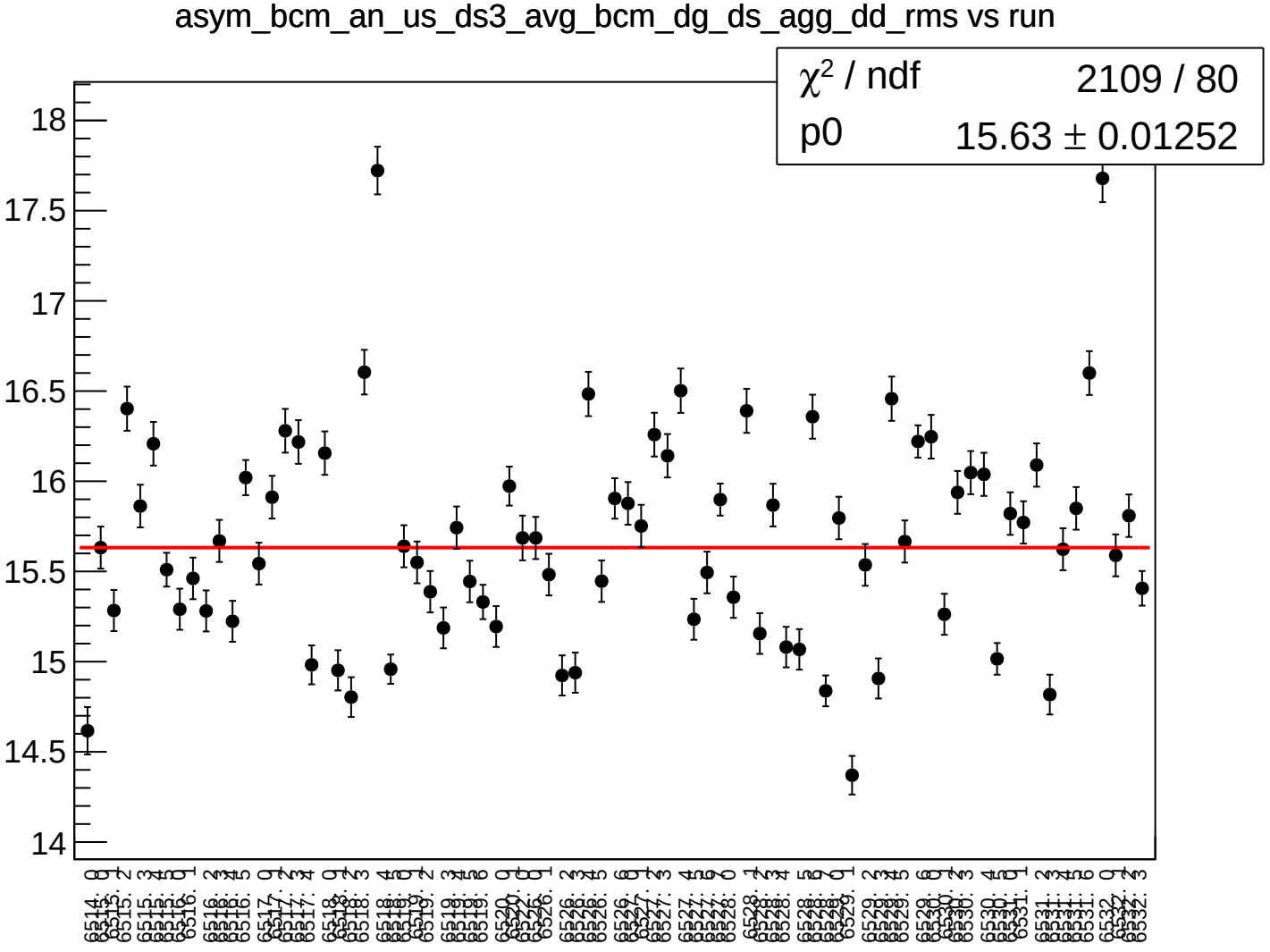

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 78.71 / 80
p0 −39.74 ± 24.32
pull
Entries 81
Mean −240.7
Std Dev 0

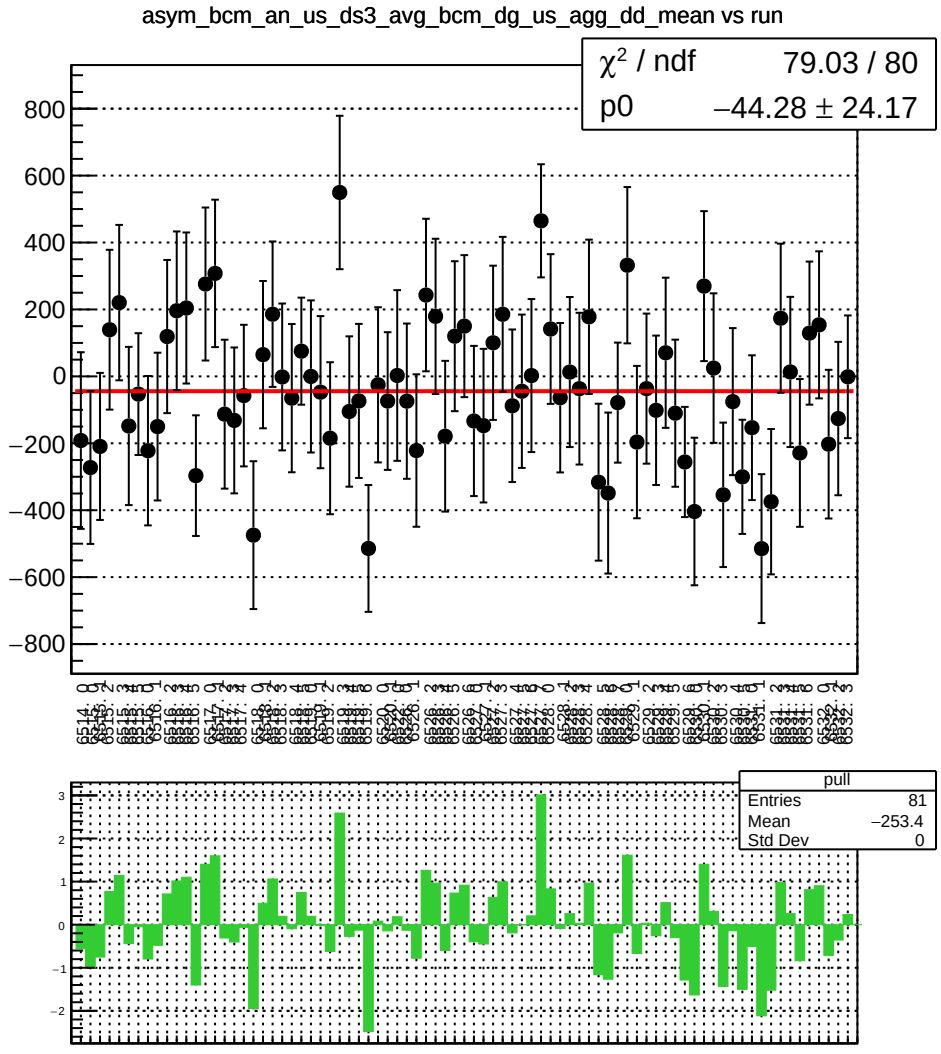

pull1D
Entries 81
Mean 0.006814
Std Dev 0.9857

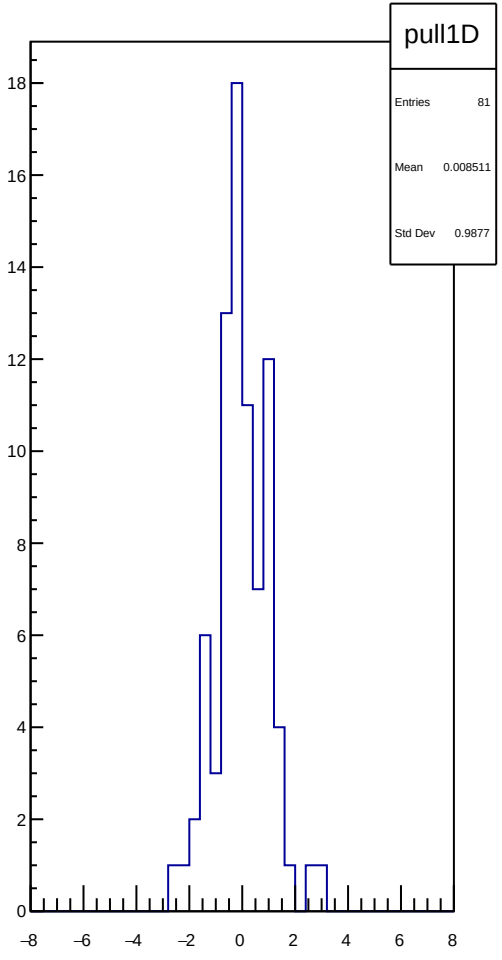

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 863.5 / 80
p0 21.48 ± 0.01719
23
22.5
22
21.5
21
20.5

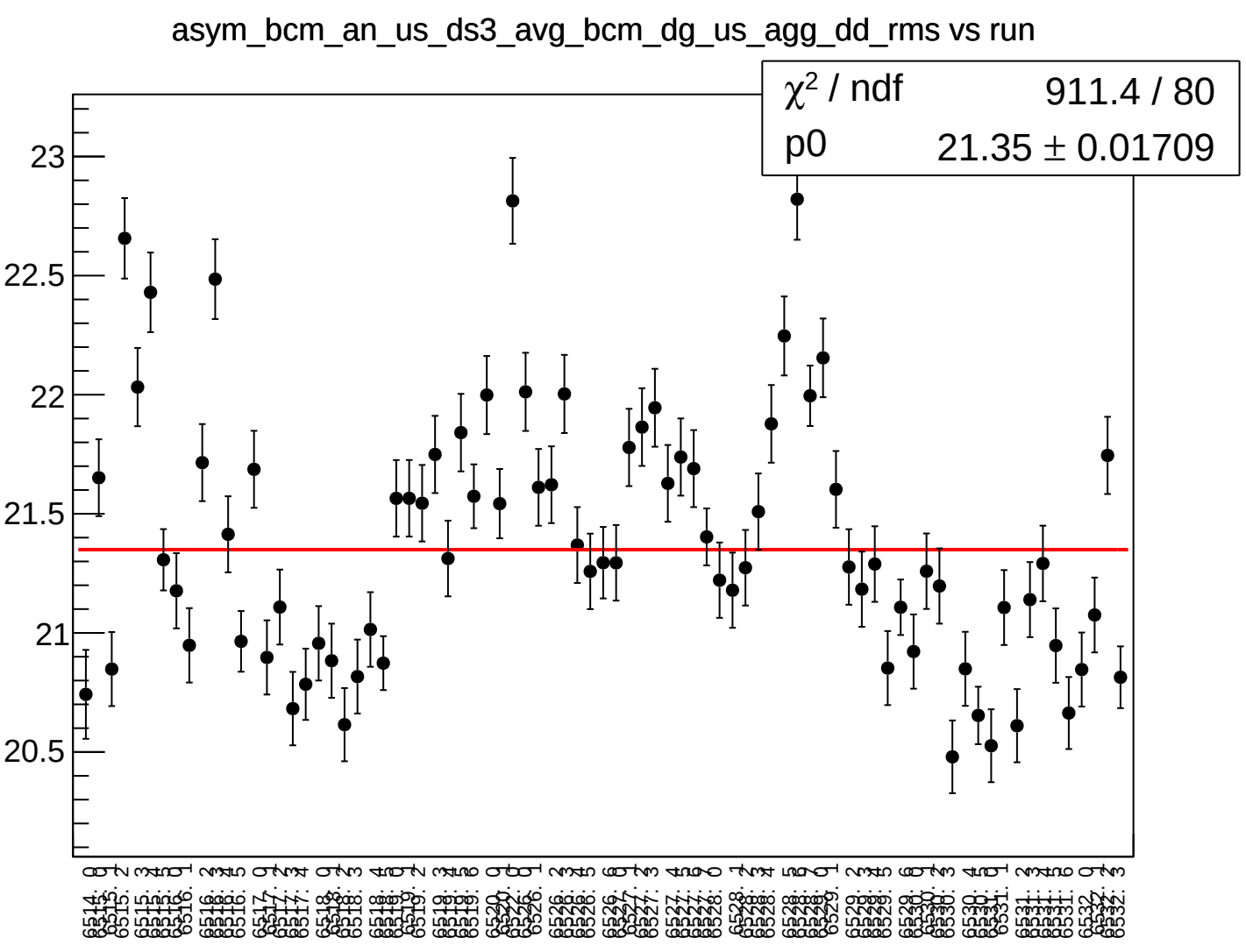

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 78.15 / 80
p0 1.447 ± 17.71
pull
Entries 81
Mean 314.6
Std Dev 0

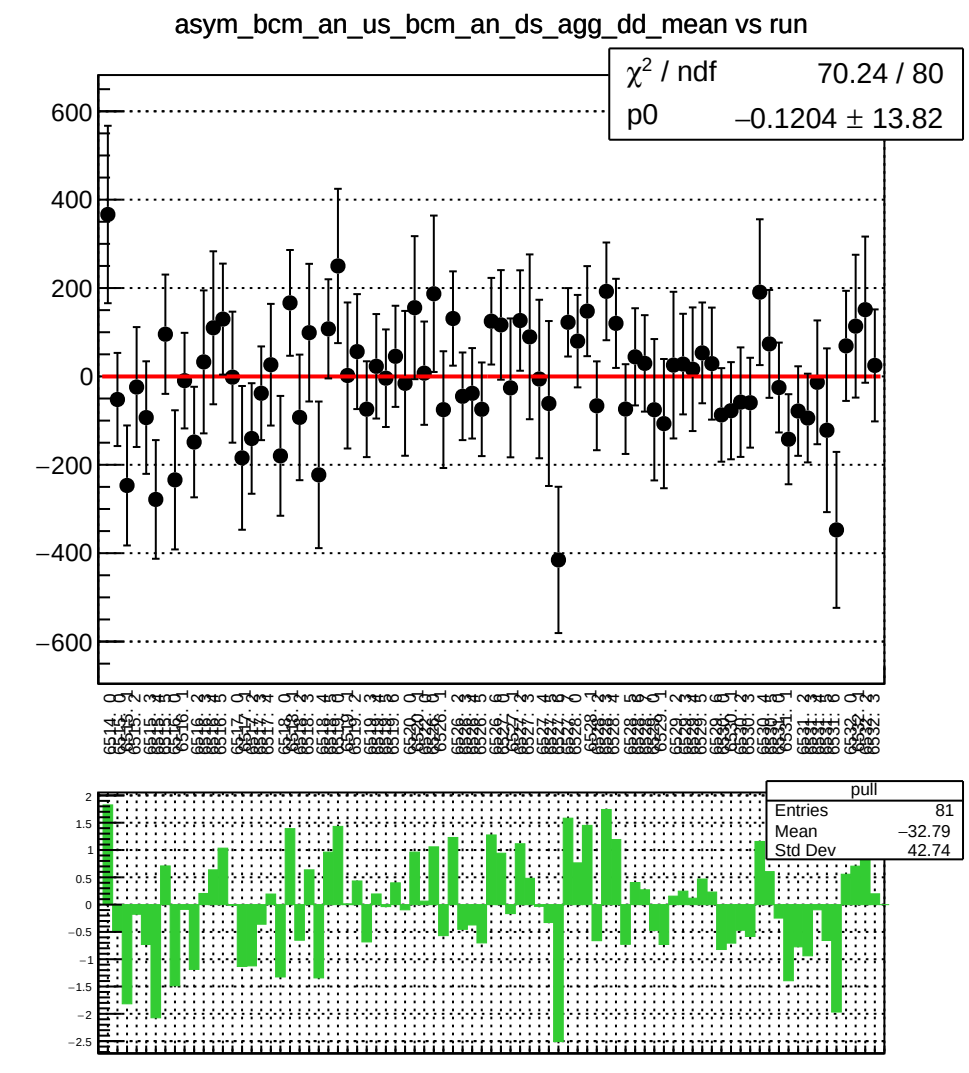

pull1D
Entries 81
Mean −0.01408
Std Dev 0.9822

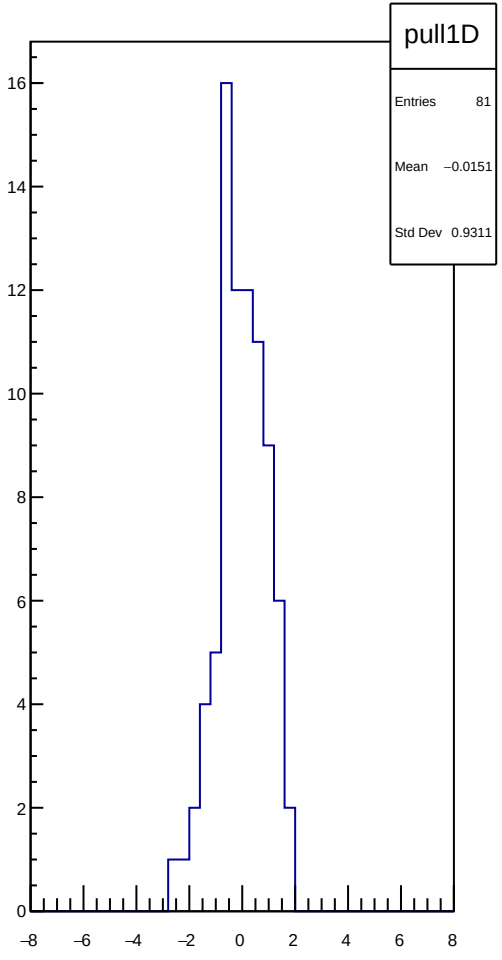

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2109 / 80
p0 15.63 ± 0.01252
18
17.5
17
16.5
16
15.5
15
14.5
14

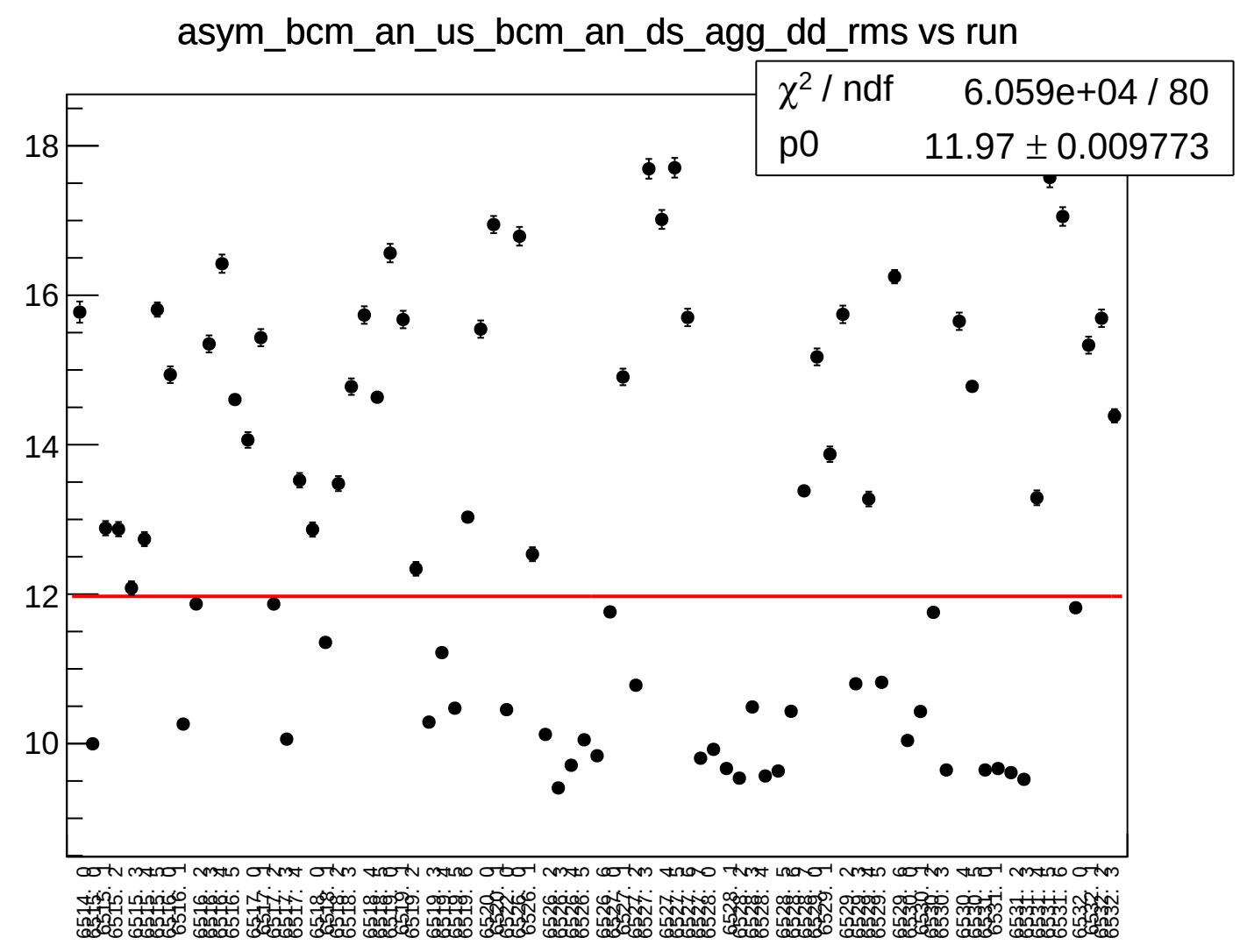

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 79.03 / 80
p0 −44.28 ± 24.17
pull
Entries 81
Mean −253.4
Std Dev 0

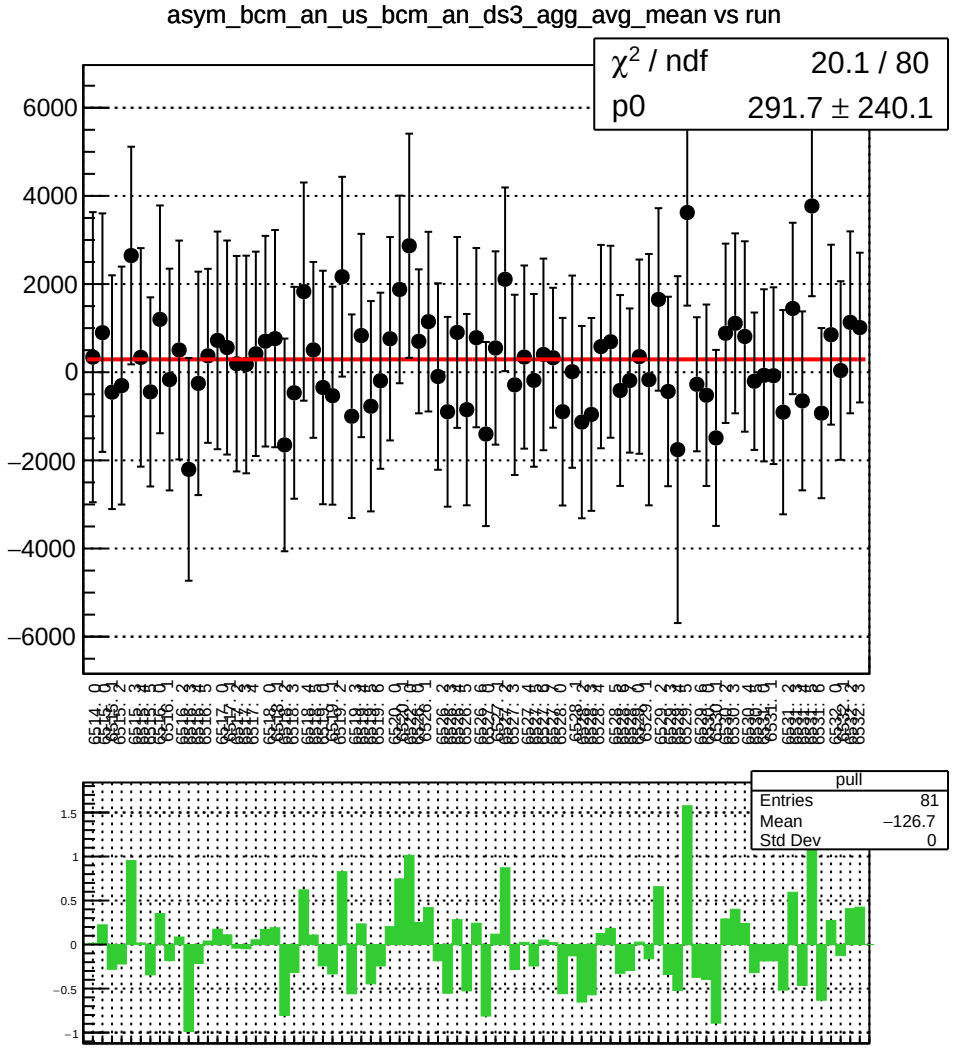

pull1D
Entries 81
Mean 0.008511
Std Dev 0.9877

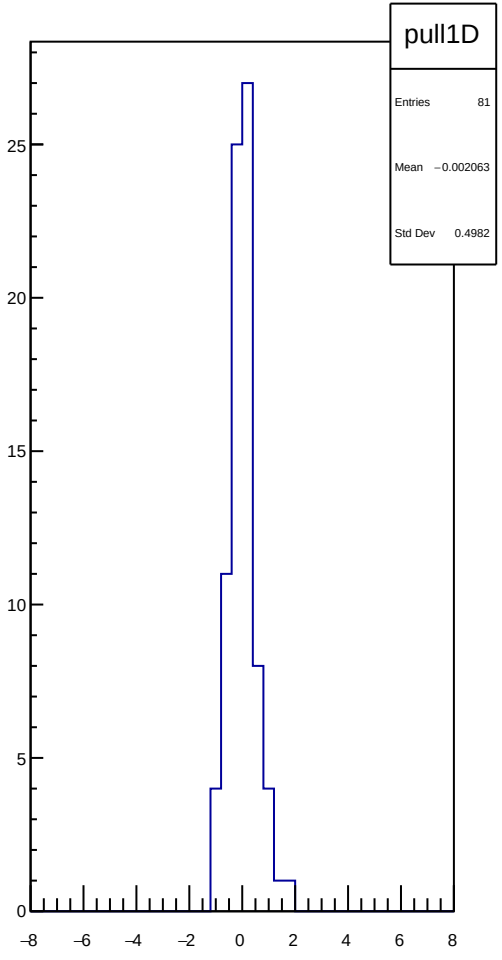

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 911.4 / 80
p0 21.35 ± 0.01709
23
22.5
22
21.5
21
20.5

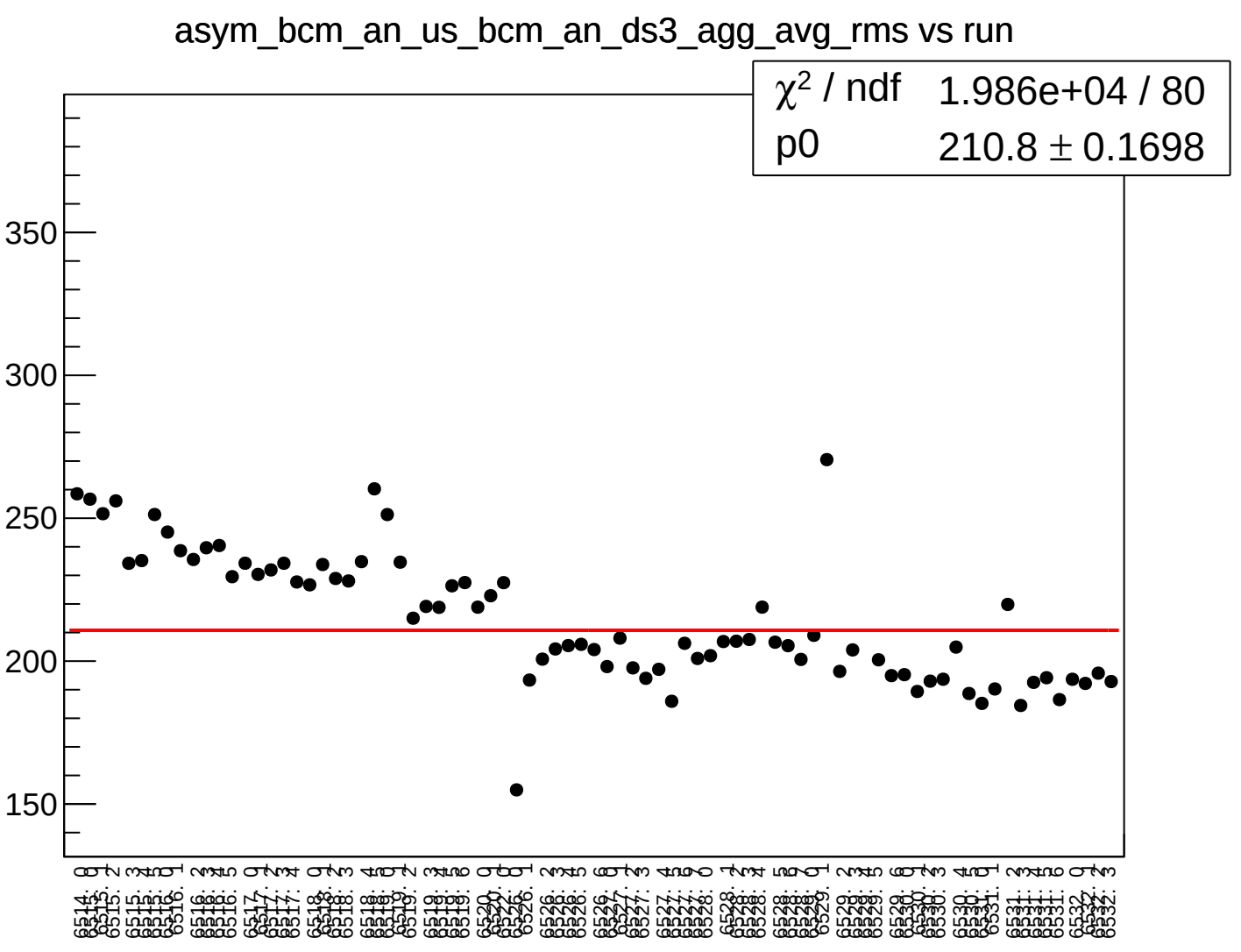

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 70.24 / 80
p0 −0.1204 ± 13.82
pull
Entries 81
Mean −32.79
Std Dev 42.74

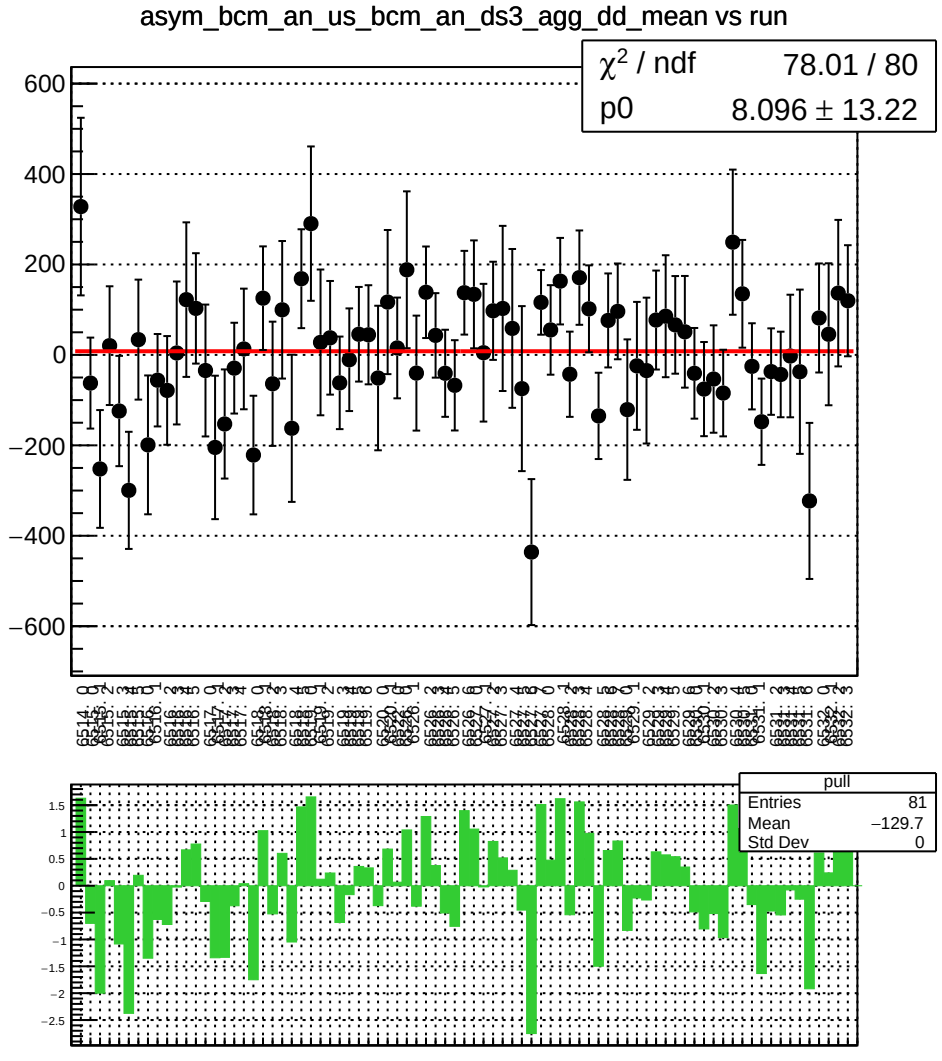

pull1D
Entries 81
Mean −0.0151
Std Dev 0.9311

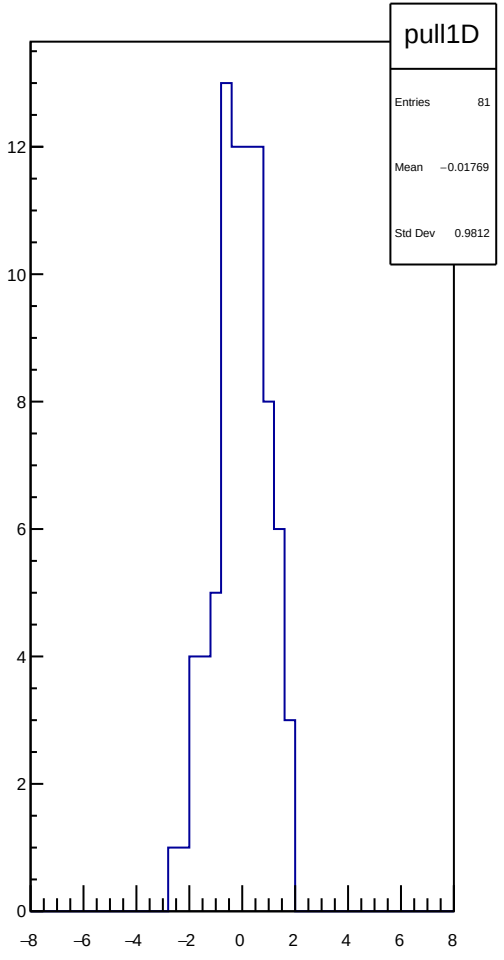

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 6.059e+04 / 80
p0 11.97 ± 0.009773
18
16
14
12
10

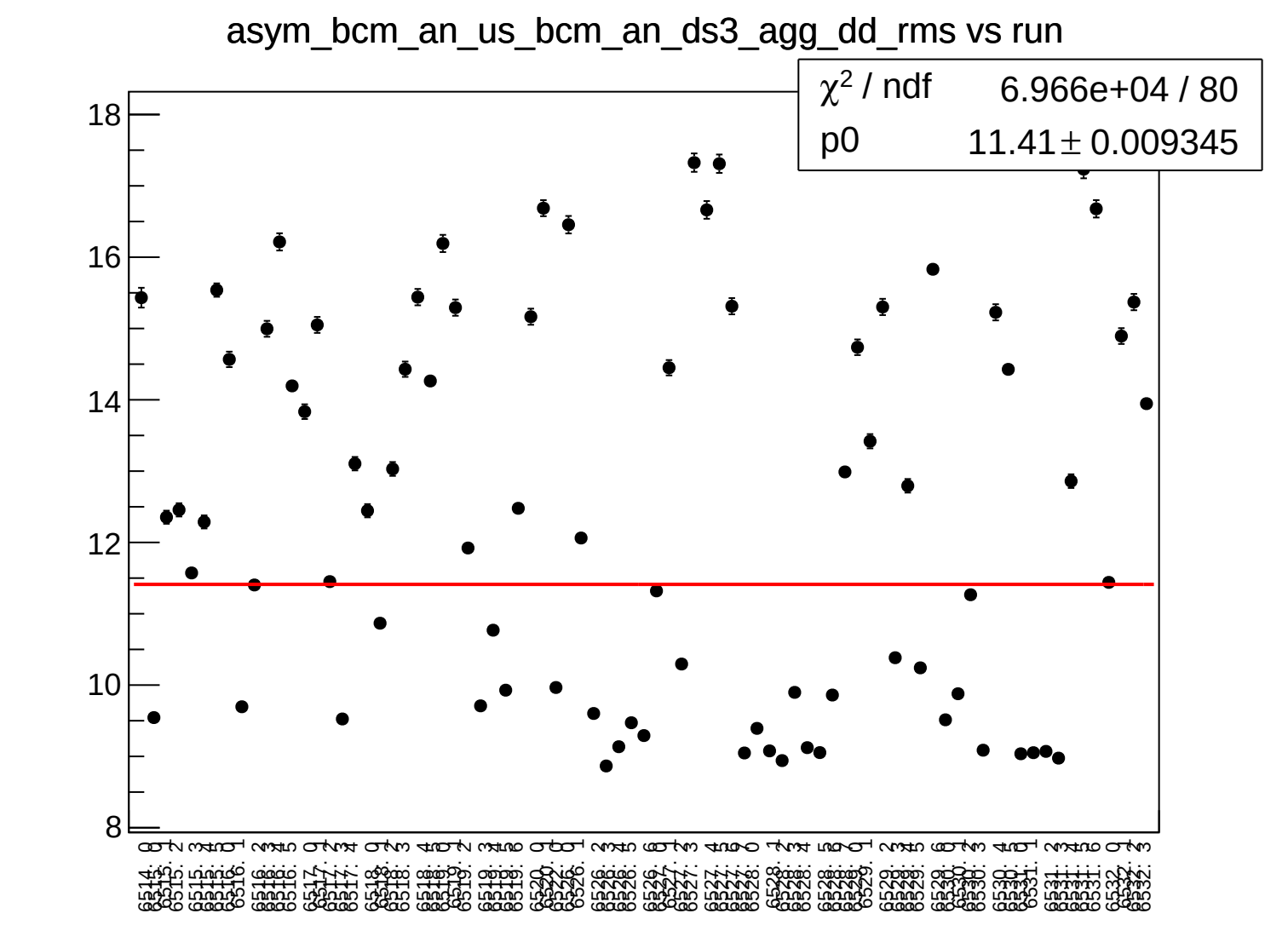

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 20.1 / 80
p0 291.7 ± 240.1
pull
Entries 81
Mean −126.7
Std Dev 0

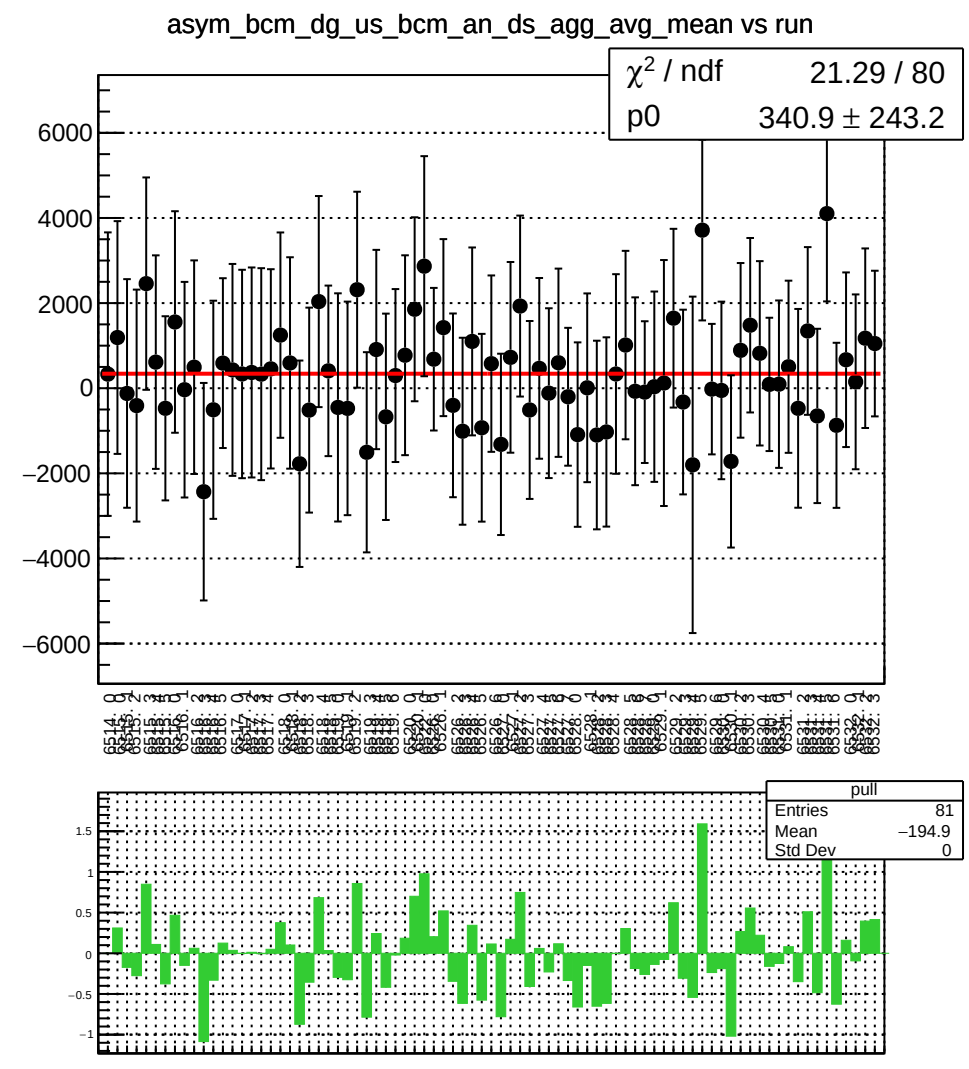

pull1D
Entries 81
Mean −0.002063
Std Dev 0.4982

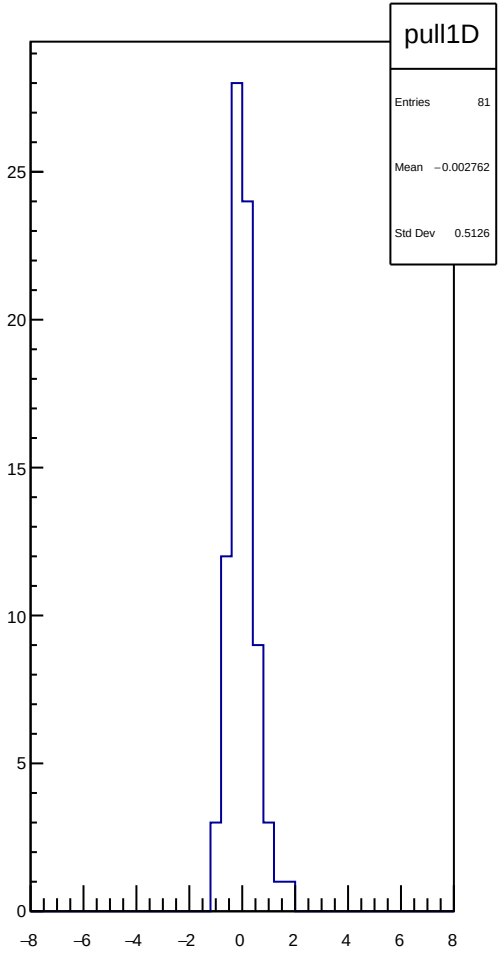

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 1.986e+04 / 80
p0 210.8 ± 0.1698
350
300
250
200
150

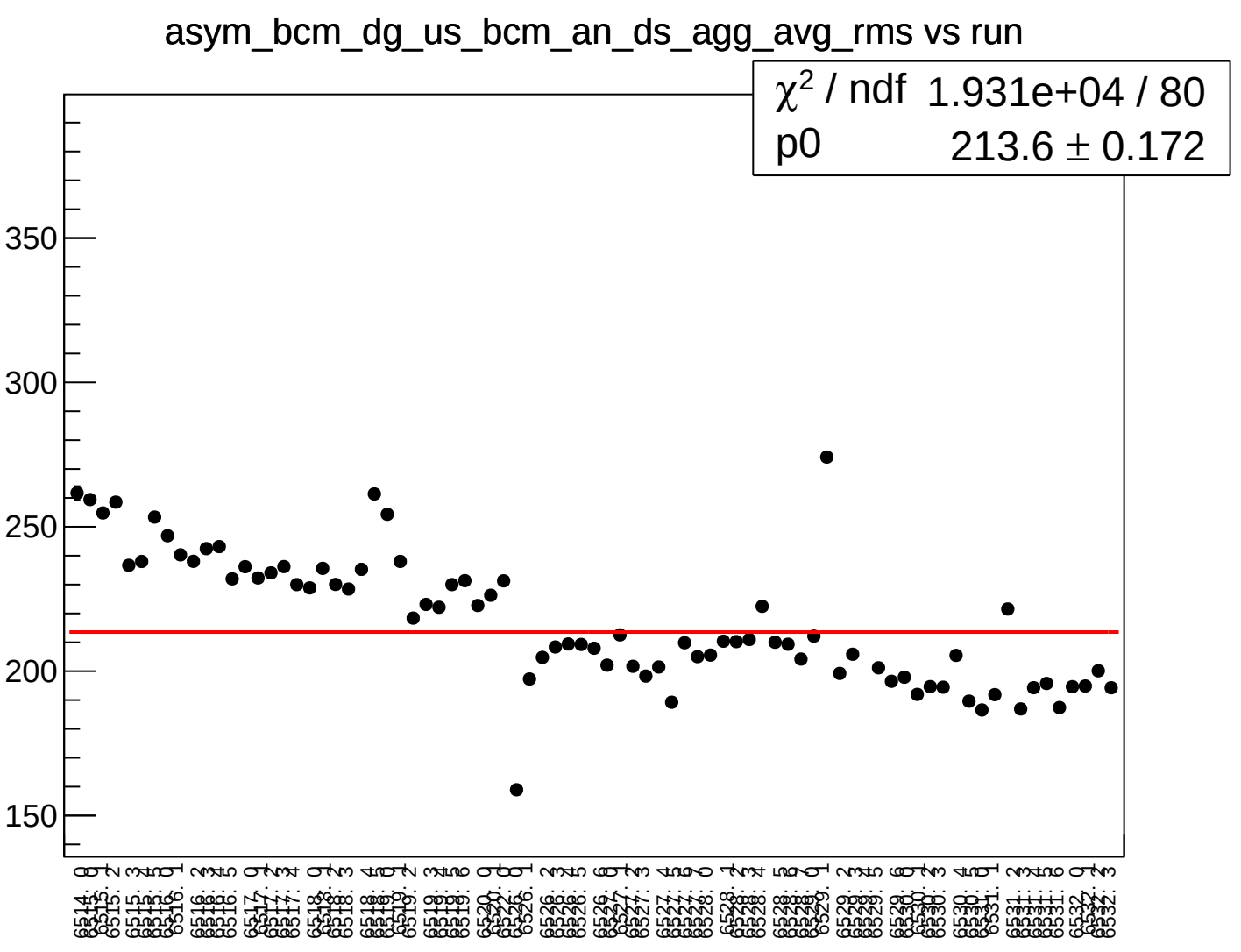

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 78.01 / 80
p0 8.096 ± 13.22
pull
Entries 81
Mean −129.7
Std Dev 0

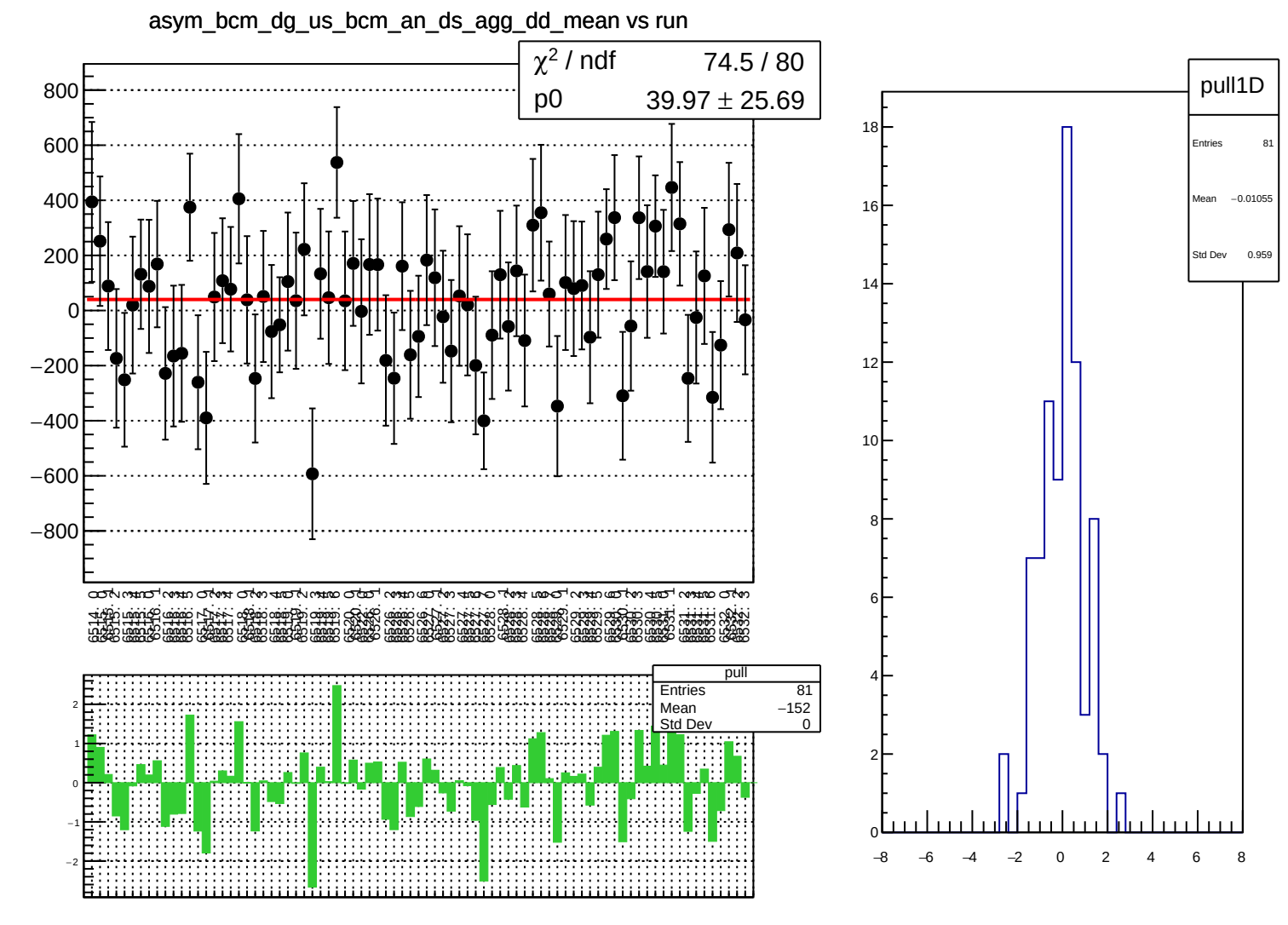

pull1D
Entries 81
Mean −0.01769
Std Dev 0.9812

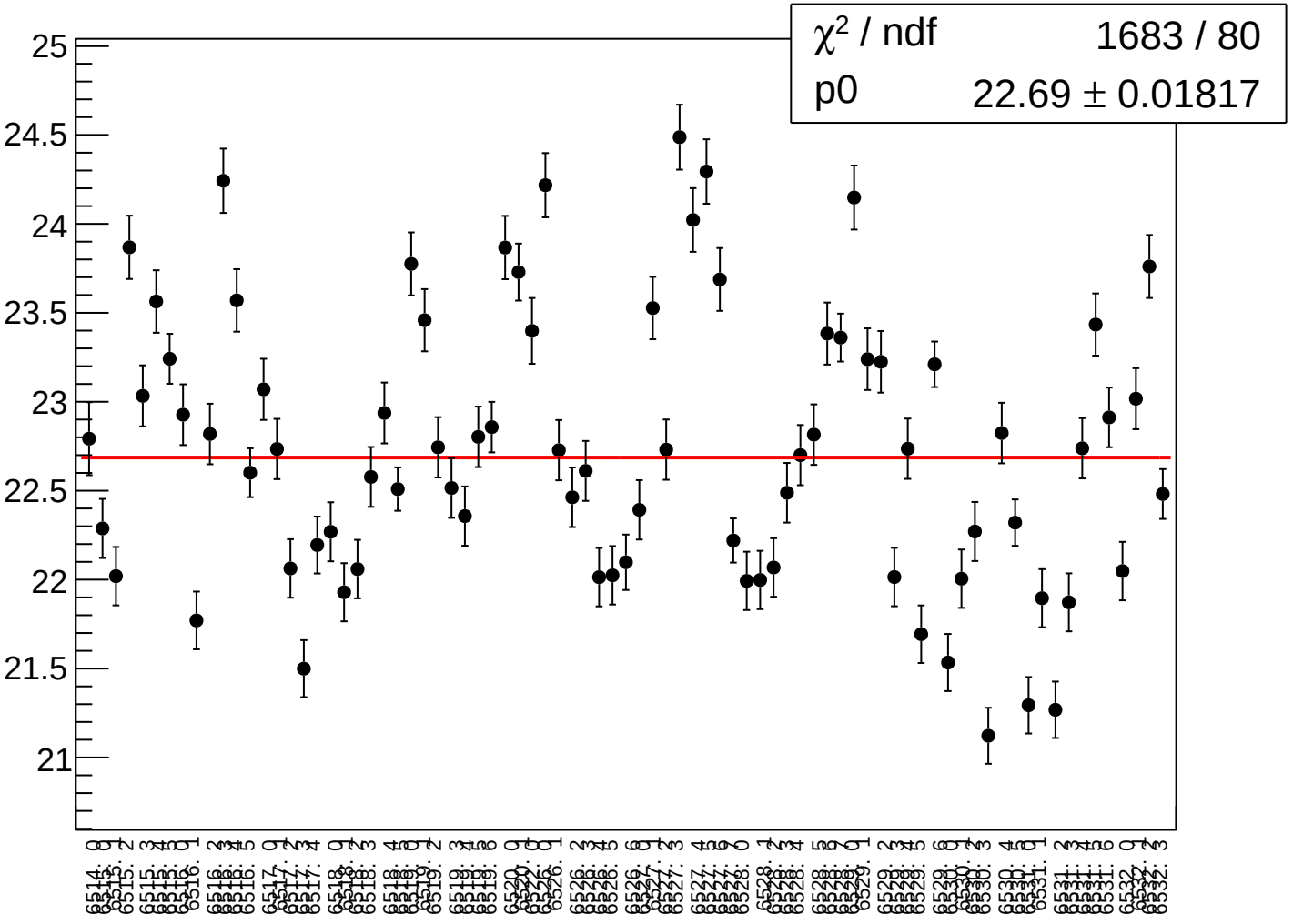

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 6.966e+04 / 80
p0 11.41 ± 0.009345
18
16
14
12
10
8

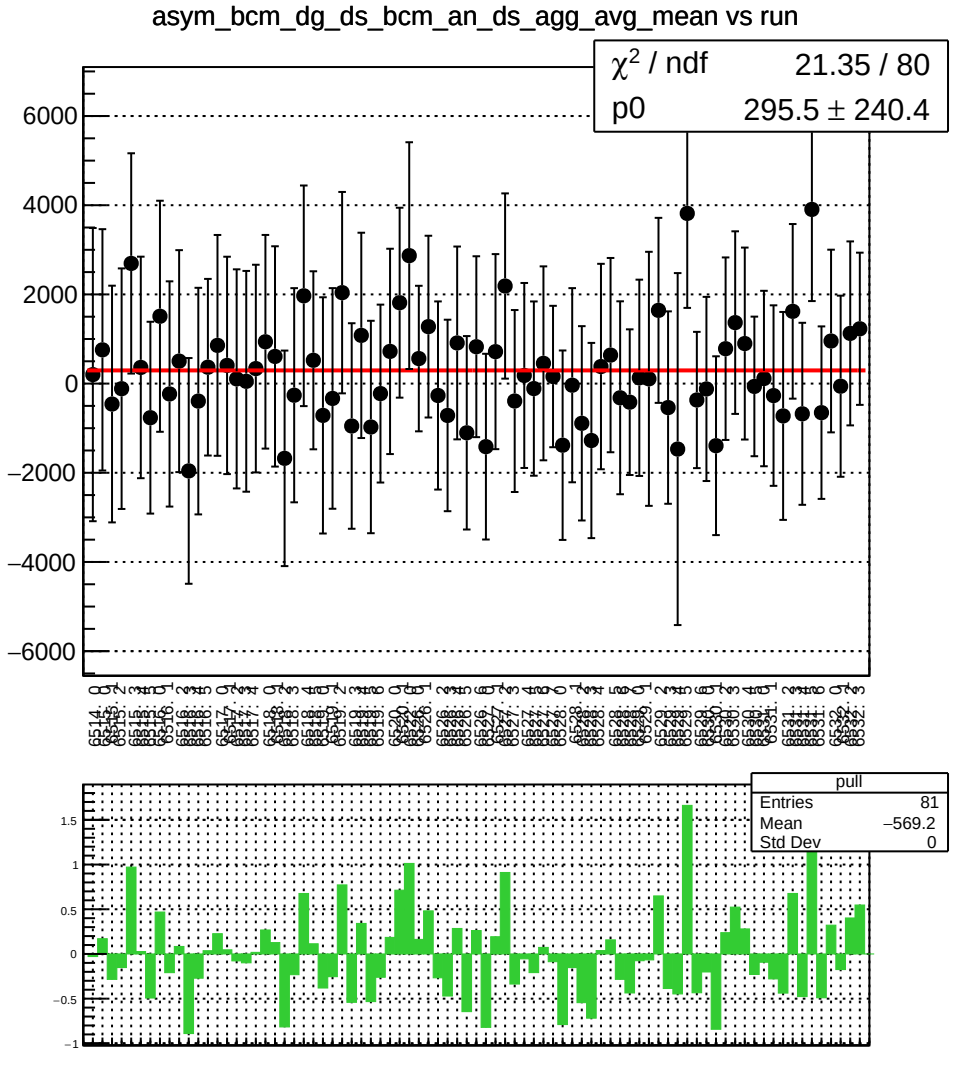

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 21.29 / 80
p0 340.9 ± 243.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 81
Mean −194.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1

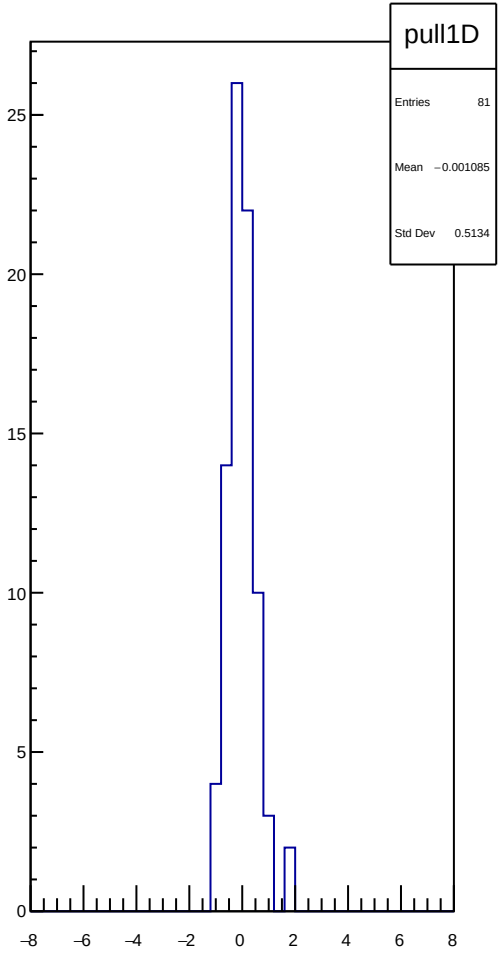

pull1D
Entries 81
Mean −0.002762
Std Dev 0.5126
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

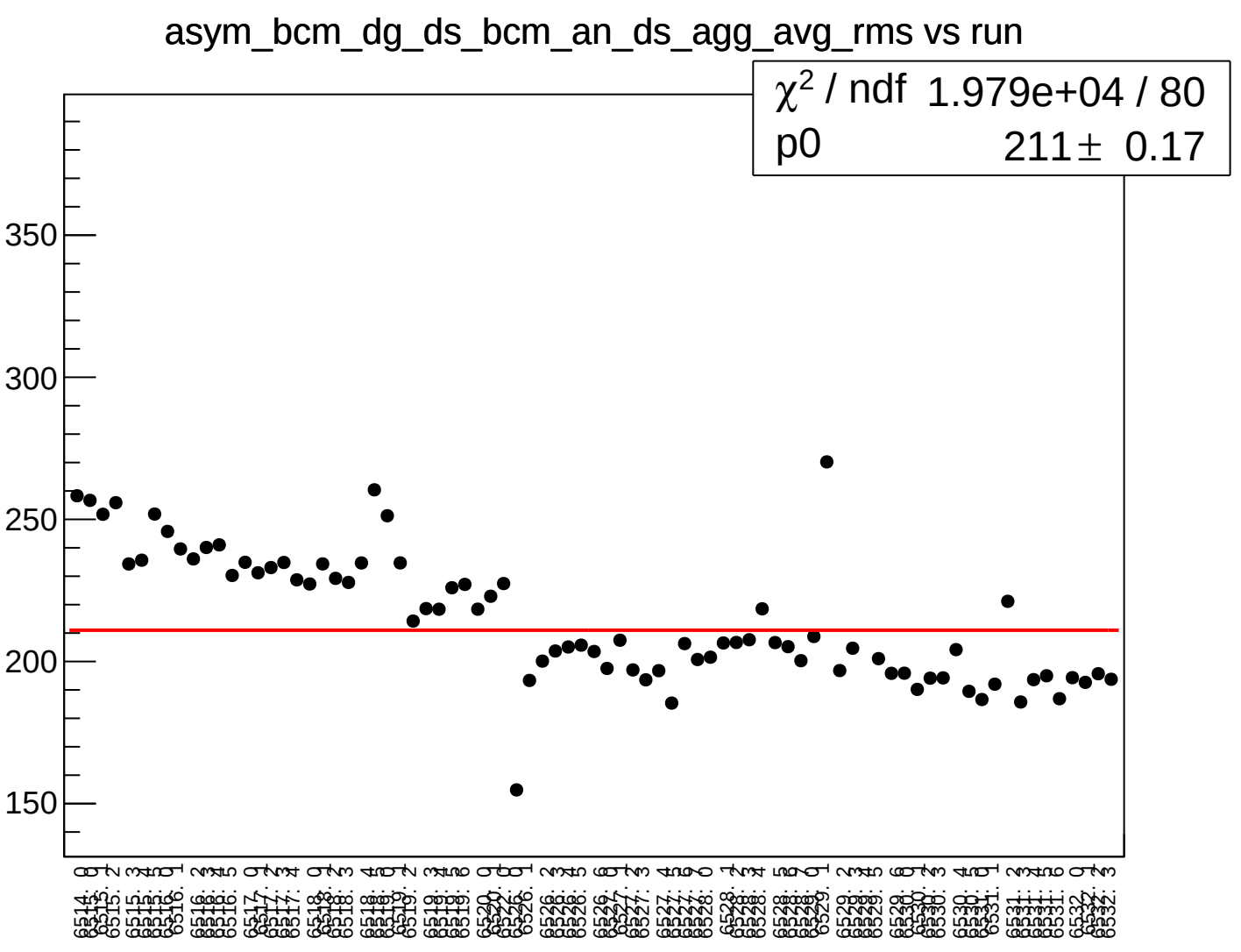

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.931e+04 / 80
p0 213.6 ± 0.172
350
300
250
200
150

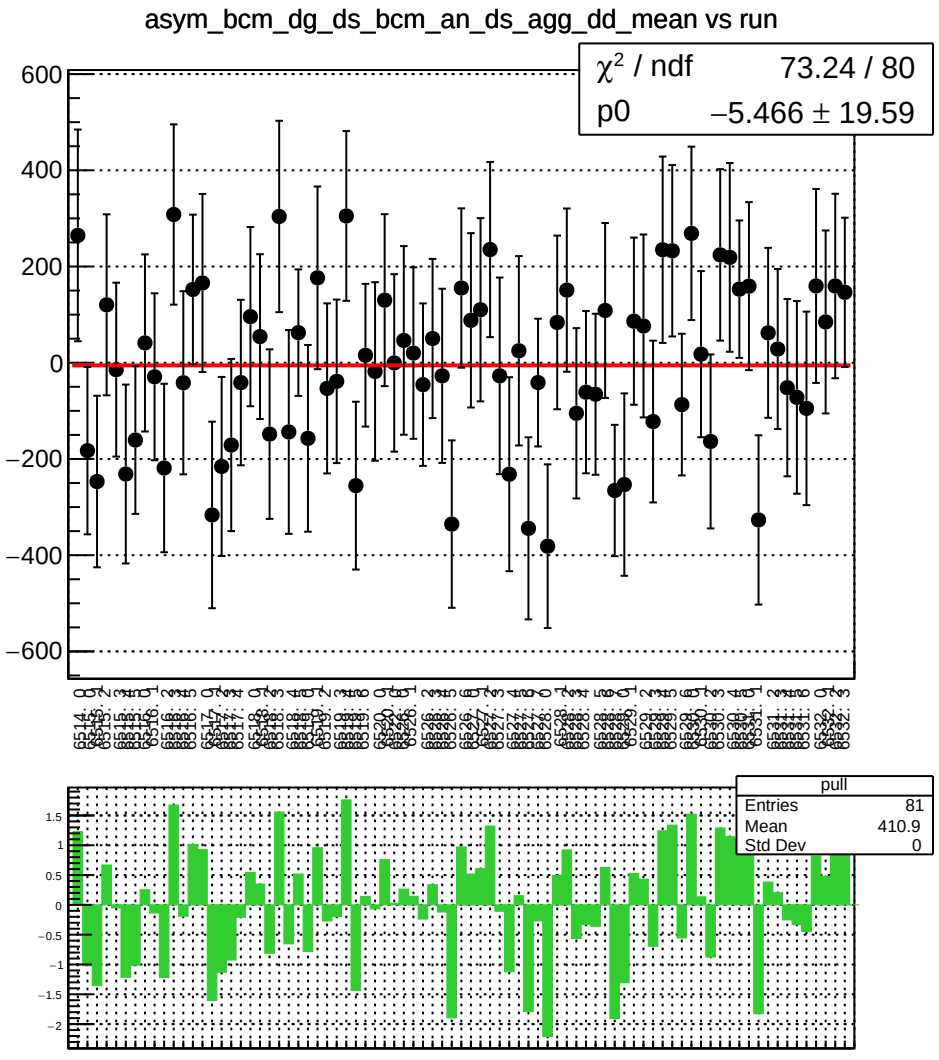

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 74.5 / 80
p0 39.97 ± 25.69
pull
Entries 81
Mean −152
Std Dev 0
pull1D
Entries 81
Mean −0.01055
Std Dev 0.959

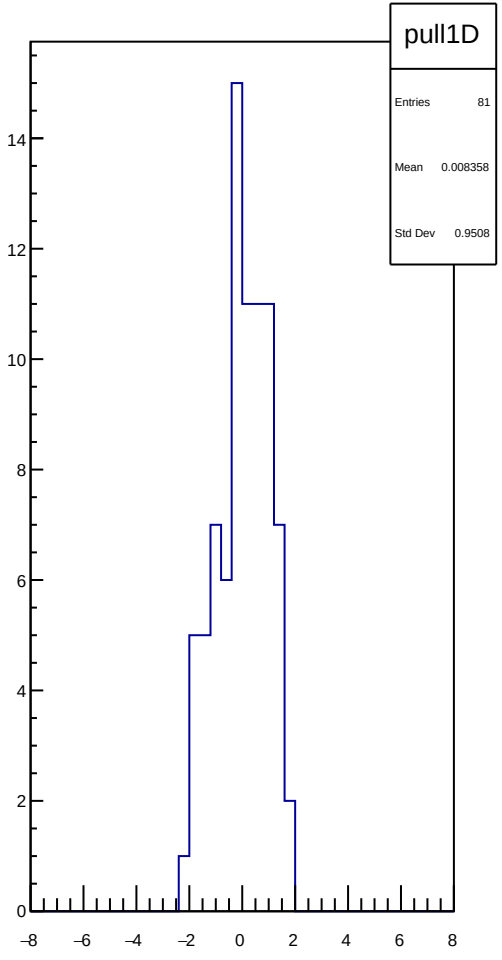

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1683 / 80
p0 22.69 ± 0.01817
25
24.5
24
23.5
23
22.5
22
21.5
21

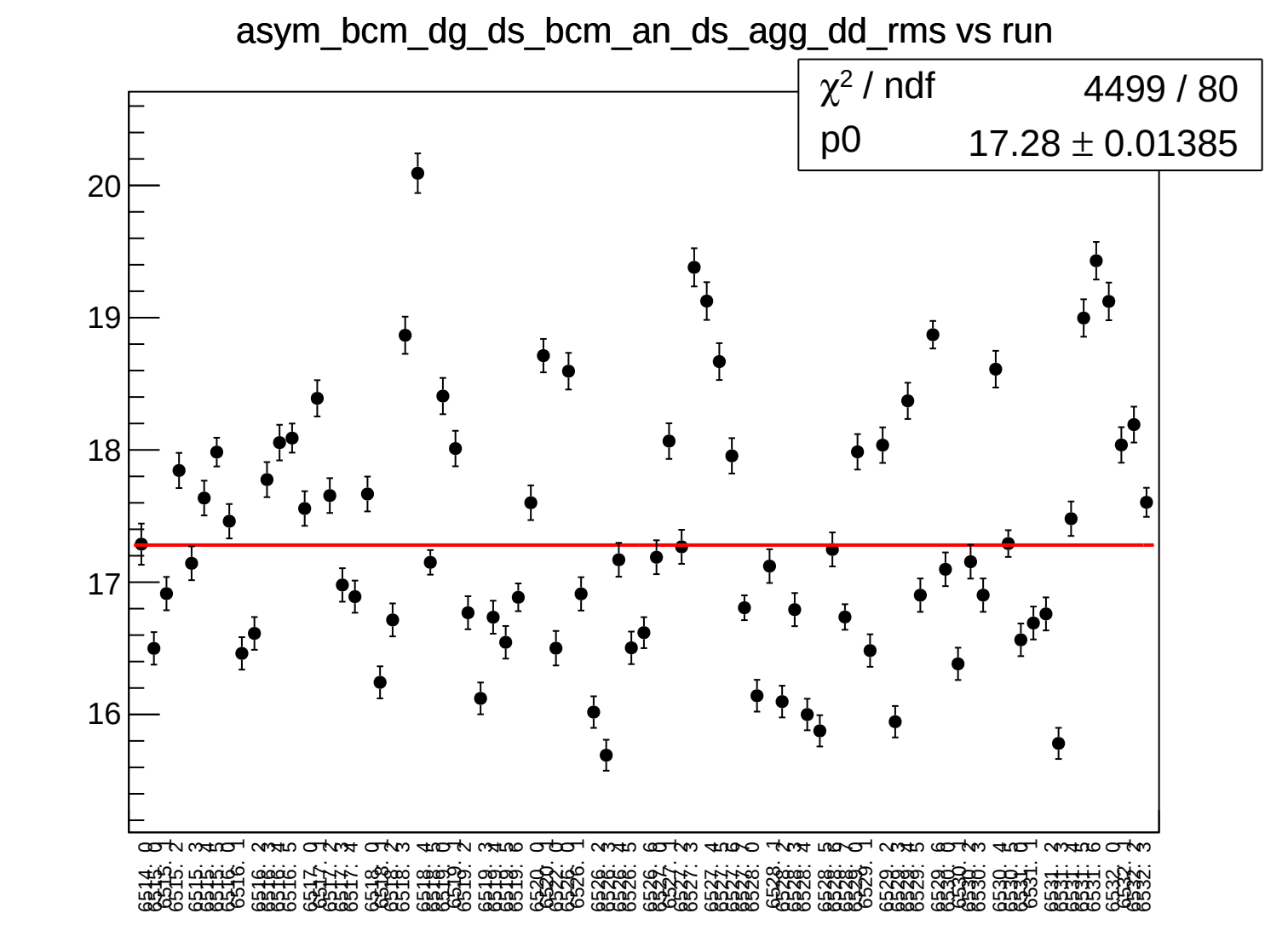

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 21.35 / 80
p0 295.5 ± 240.4
pull
Entries 81
Mean −569.2
Std Dev 0

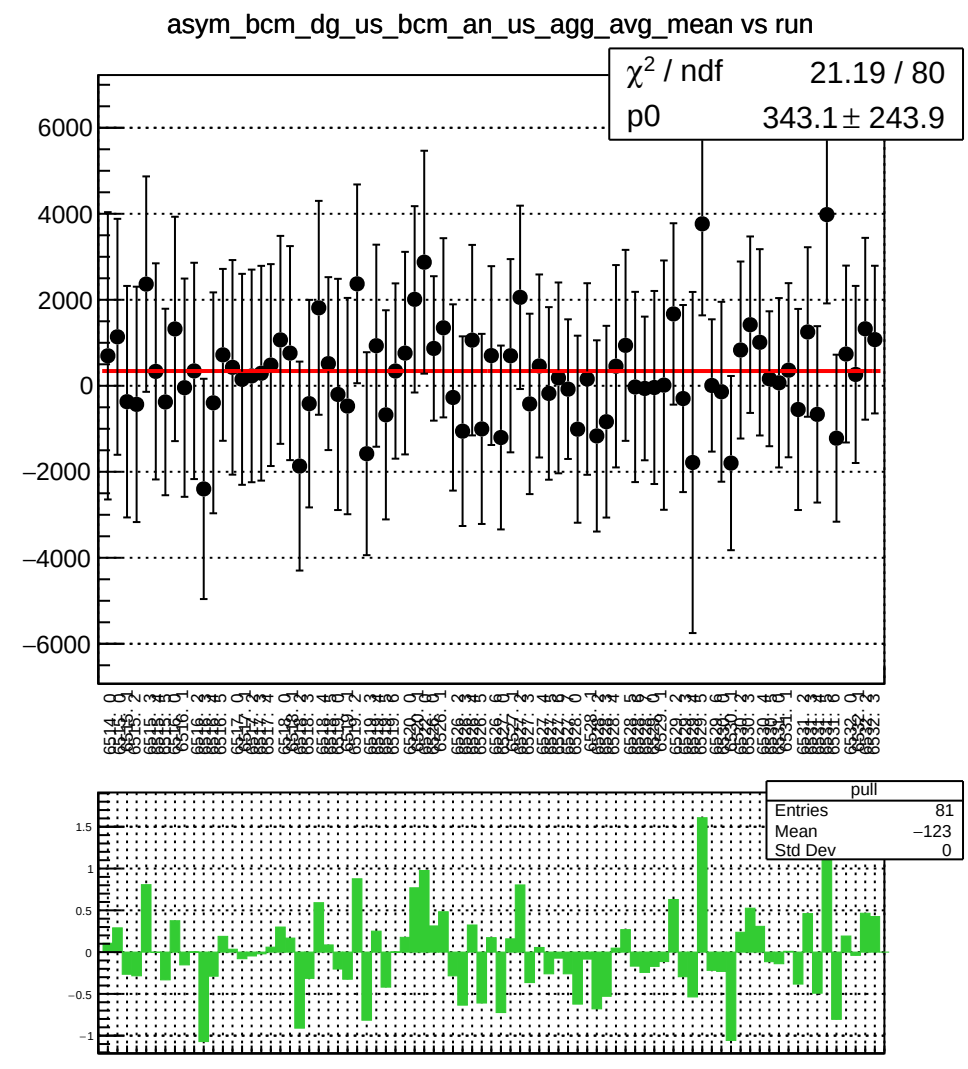

pull1D
Entries 81
Mean −0.001085
Std Dev 0.5134

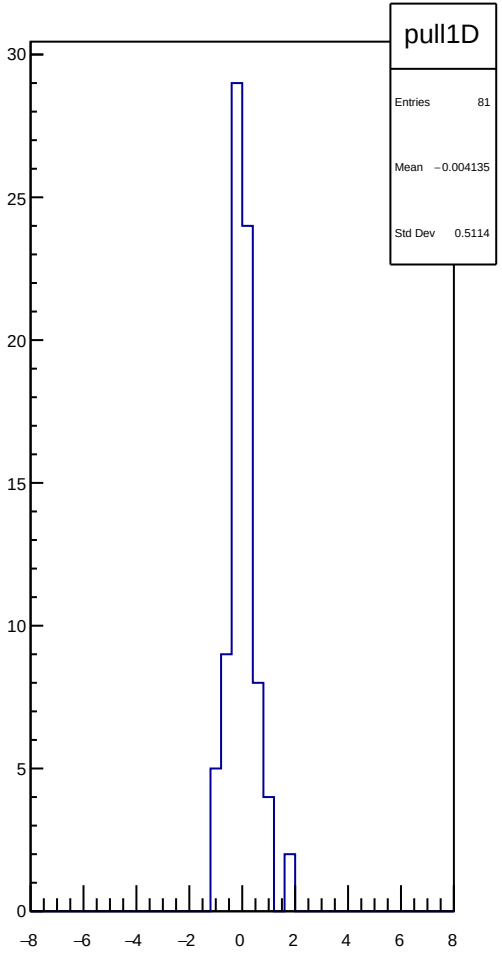

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.979e+04 / 80
p0 211 ± 0.17
350
300
250
200
150

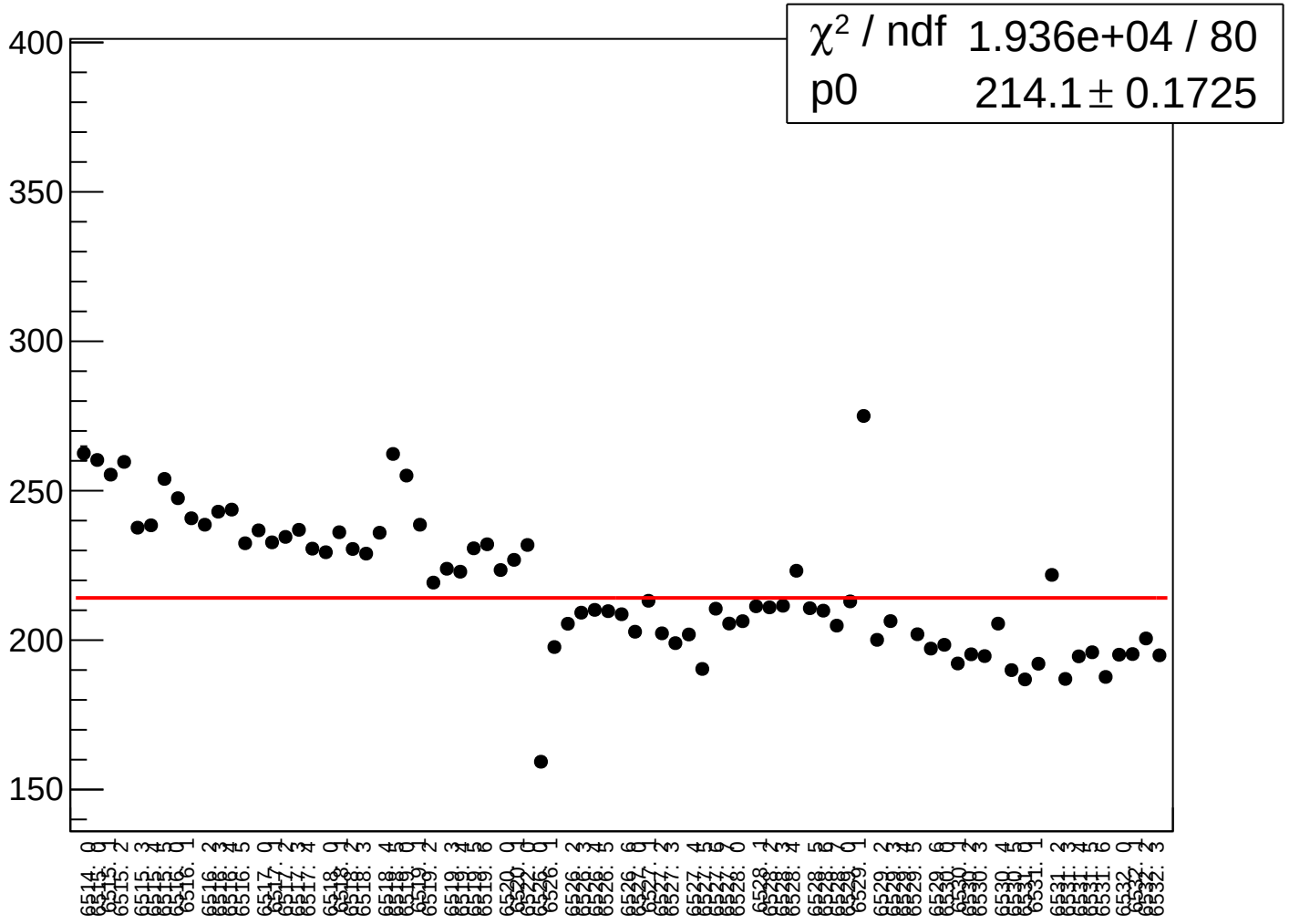

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 73.24 / 80
p0 −5.466 ± 19.59
pull
Entries 81
Mean 410.9
Std Dev 0

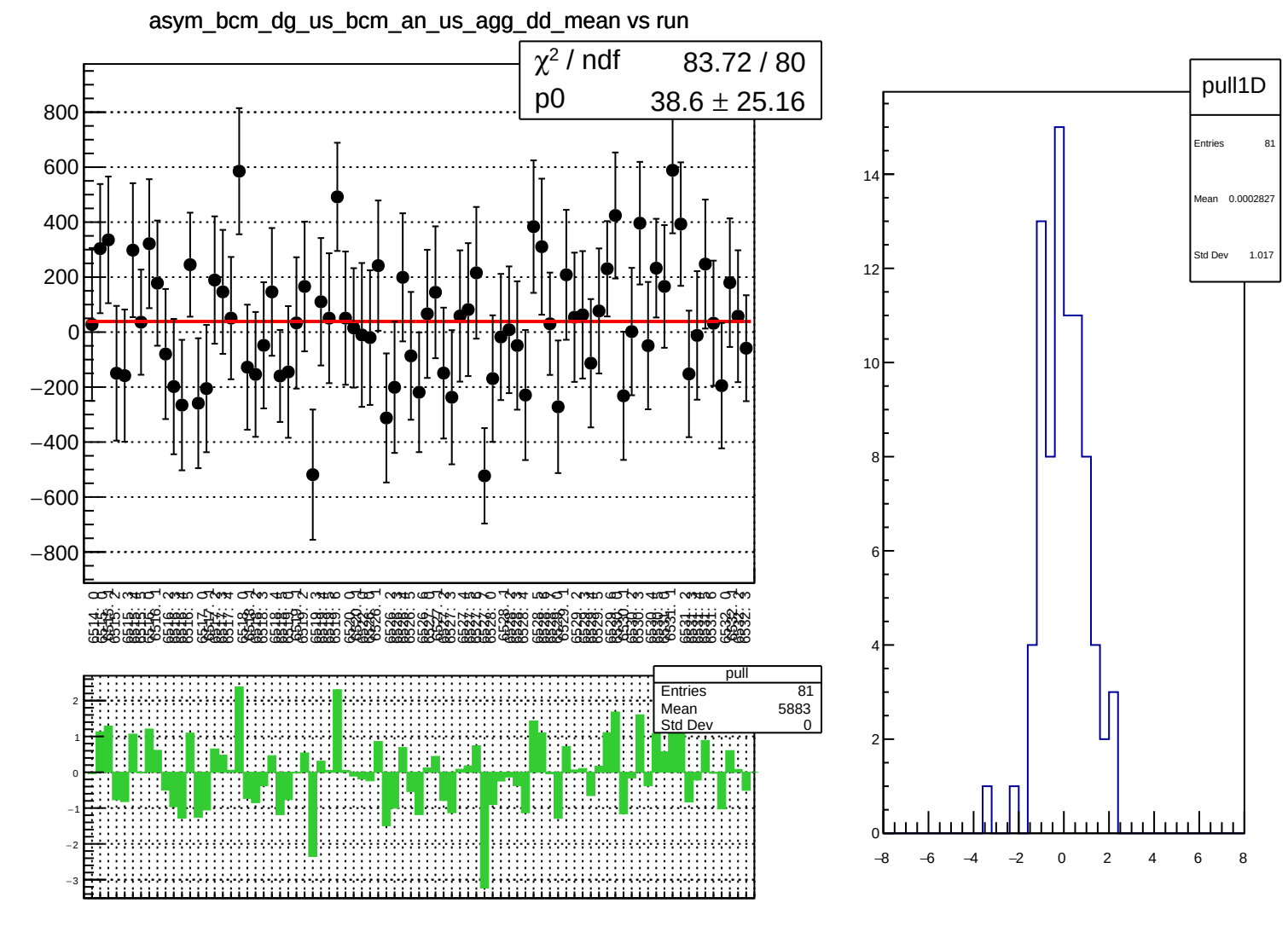

pull1D
Entries 81
Mean 0.008358
Std Dev 0.9508

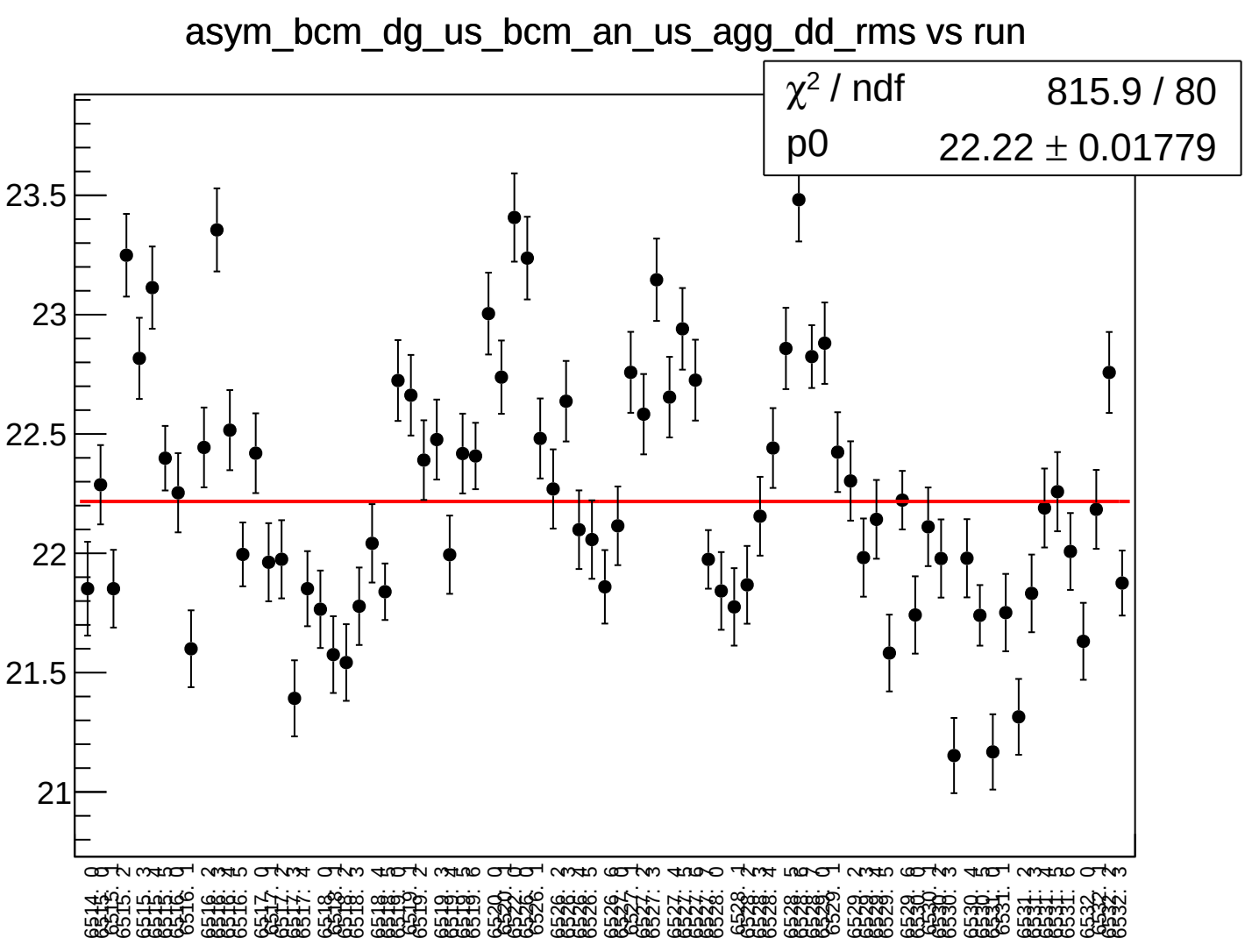

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 4499 / 80
p0 17.28 ± 0.01385
20
19
18
17
16

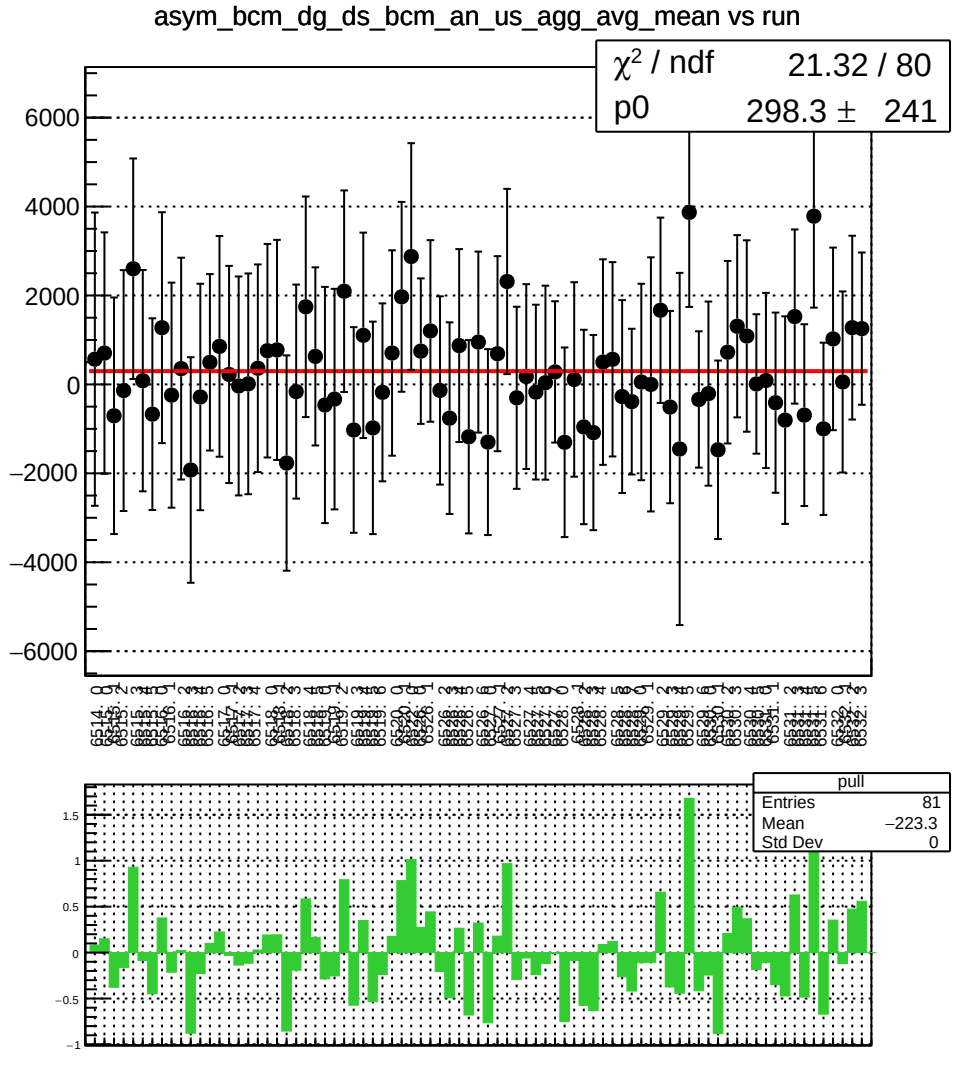

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 21.19 / 80
p0 343.1 ± 243.9
pull
Entries 81
Mean −123
Std Dev 0

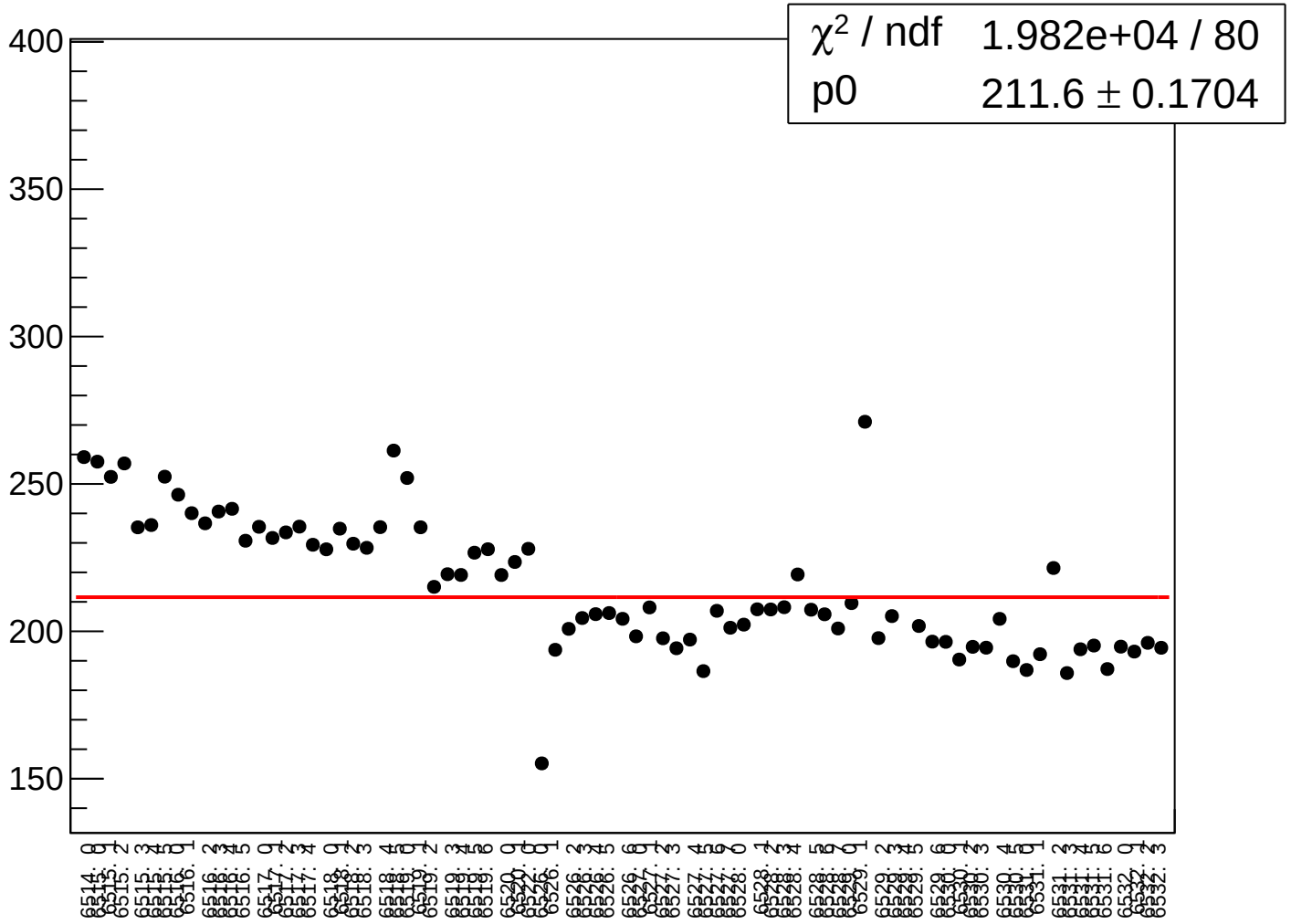

pull1D
Entries 81
Mean −0.004135
Std Dev 0.5114

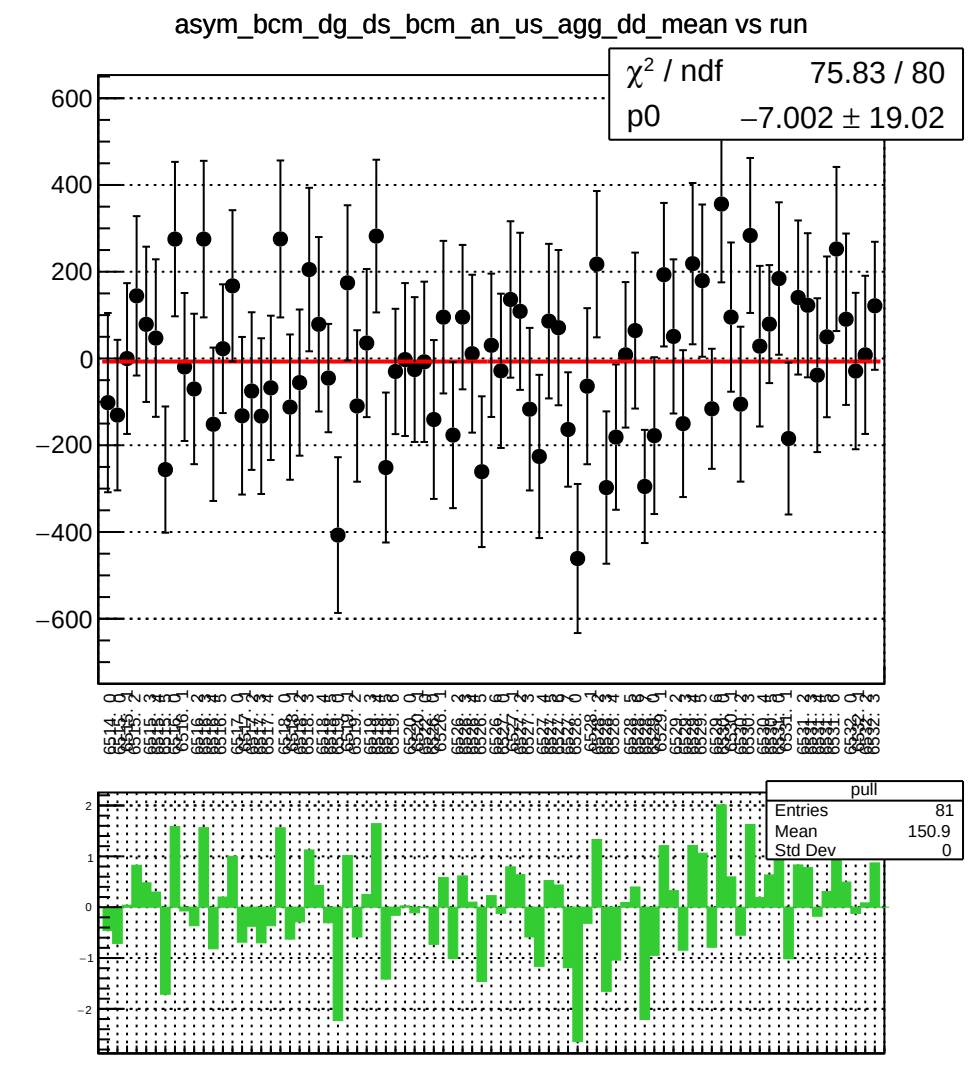

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.936e+04 / 80
p0 214.1 ± 0.1725
400
350
300
250
200
150

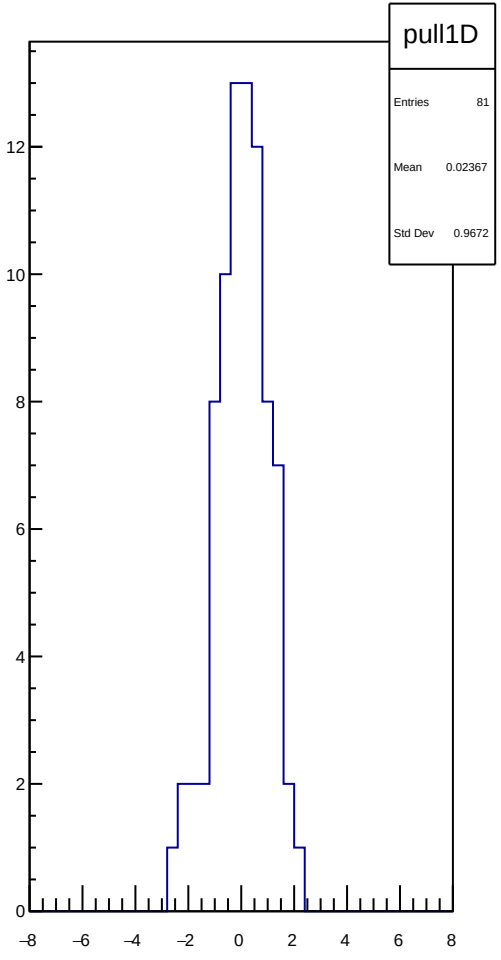

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 83.72 / 80
p0 38.6 ± 25.16
pull
Entries 81
Mean 5883
Std Dev 0
pull1D
Entries 81
Mean 0.0002827
Std Dev 1.017

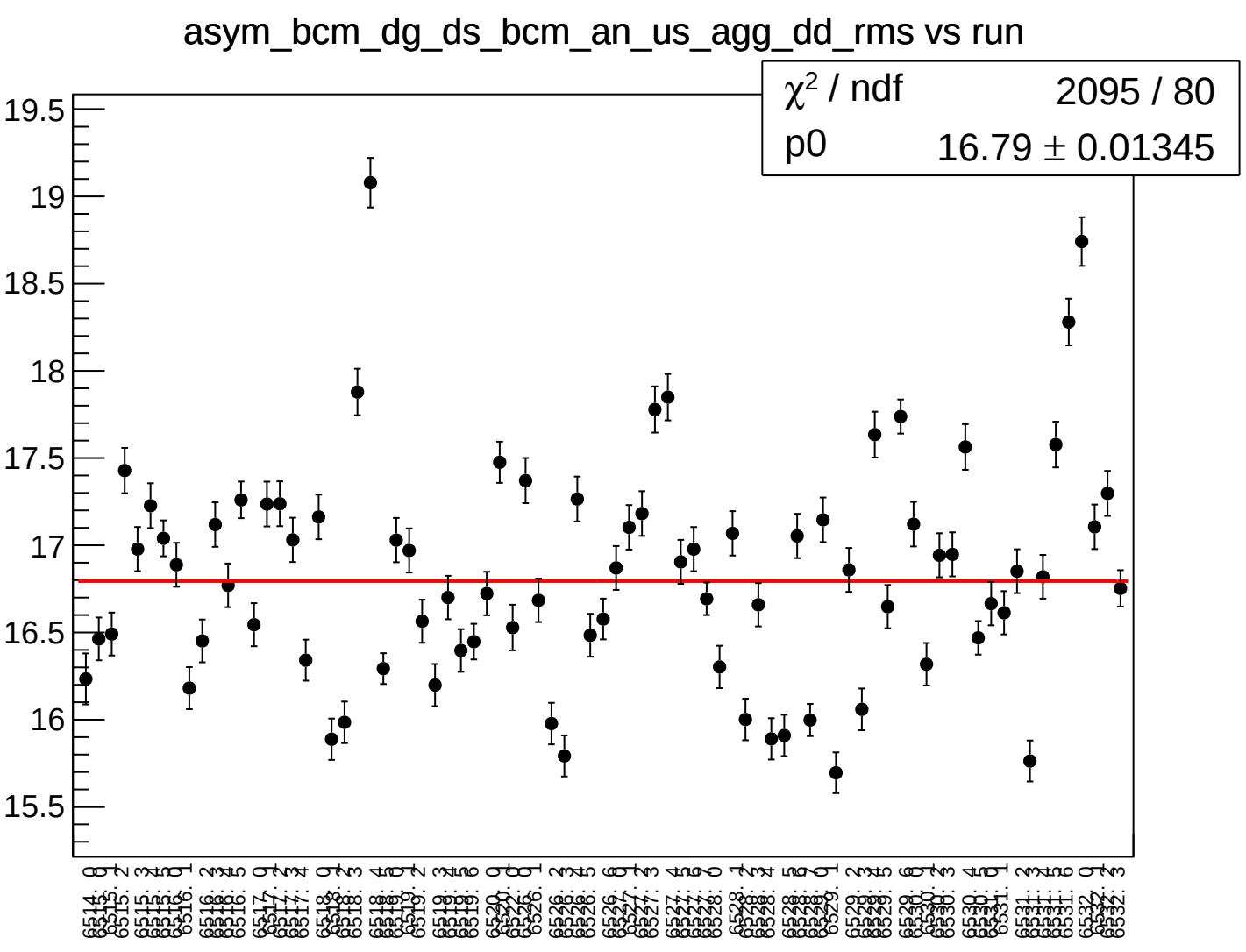

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 815.9 / 80
p0 22.22 ± 0.01779
23.5
23
22.5
22
21.5
21

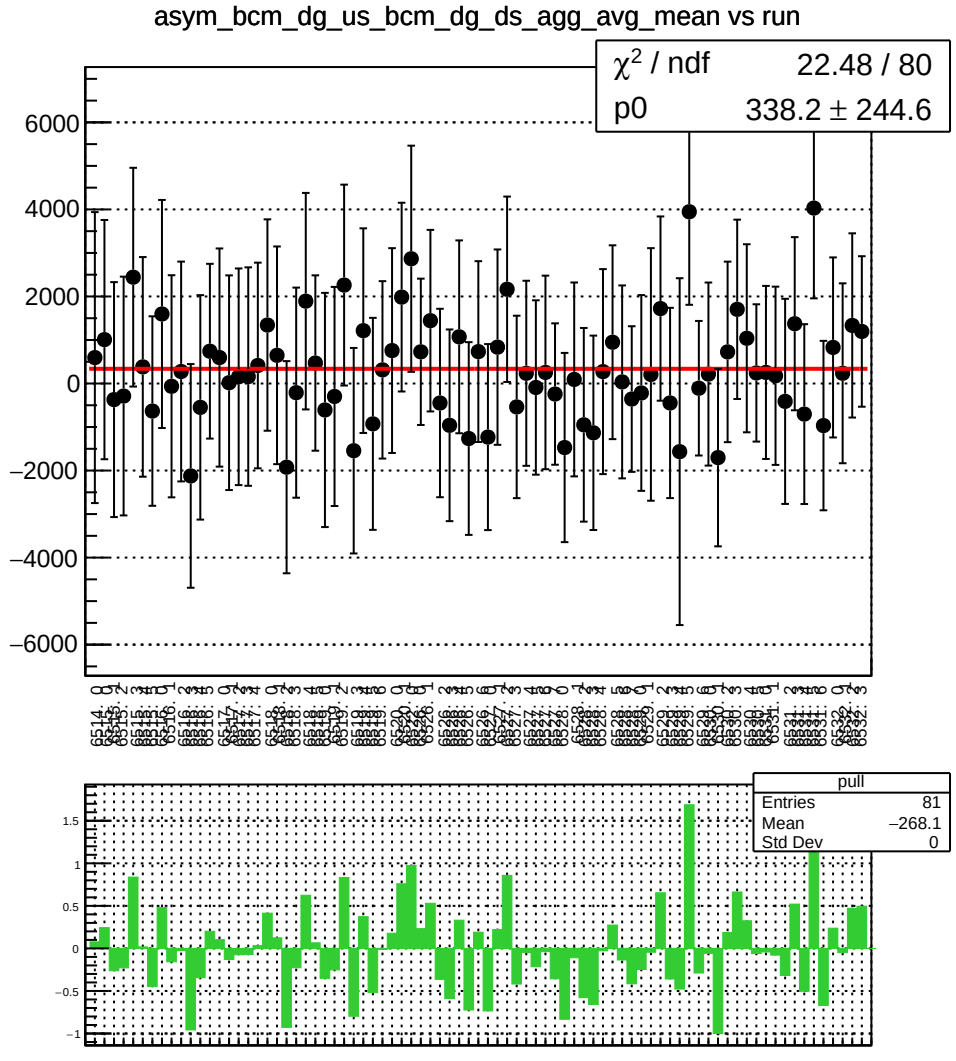

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 21.32 / 80
p0 298.3 ± 241
pull
Entries 81
Mean −223.3
Std Dev 0
pull1D
Entries 81
Mean −0.002609
Std Dev 0.5131

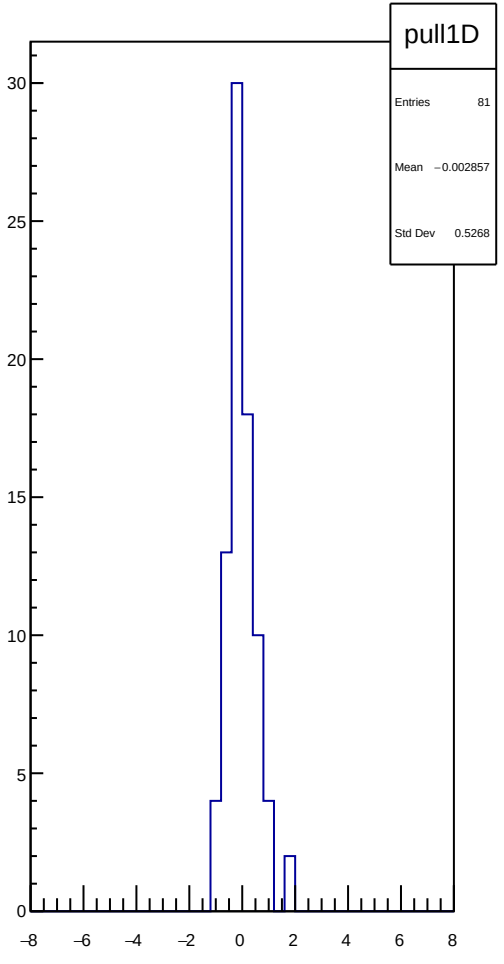

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.982e+04 / 80
p0 211.6 ± 0.1704
400
350
300
250
200
150

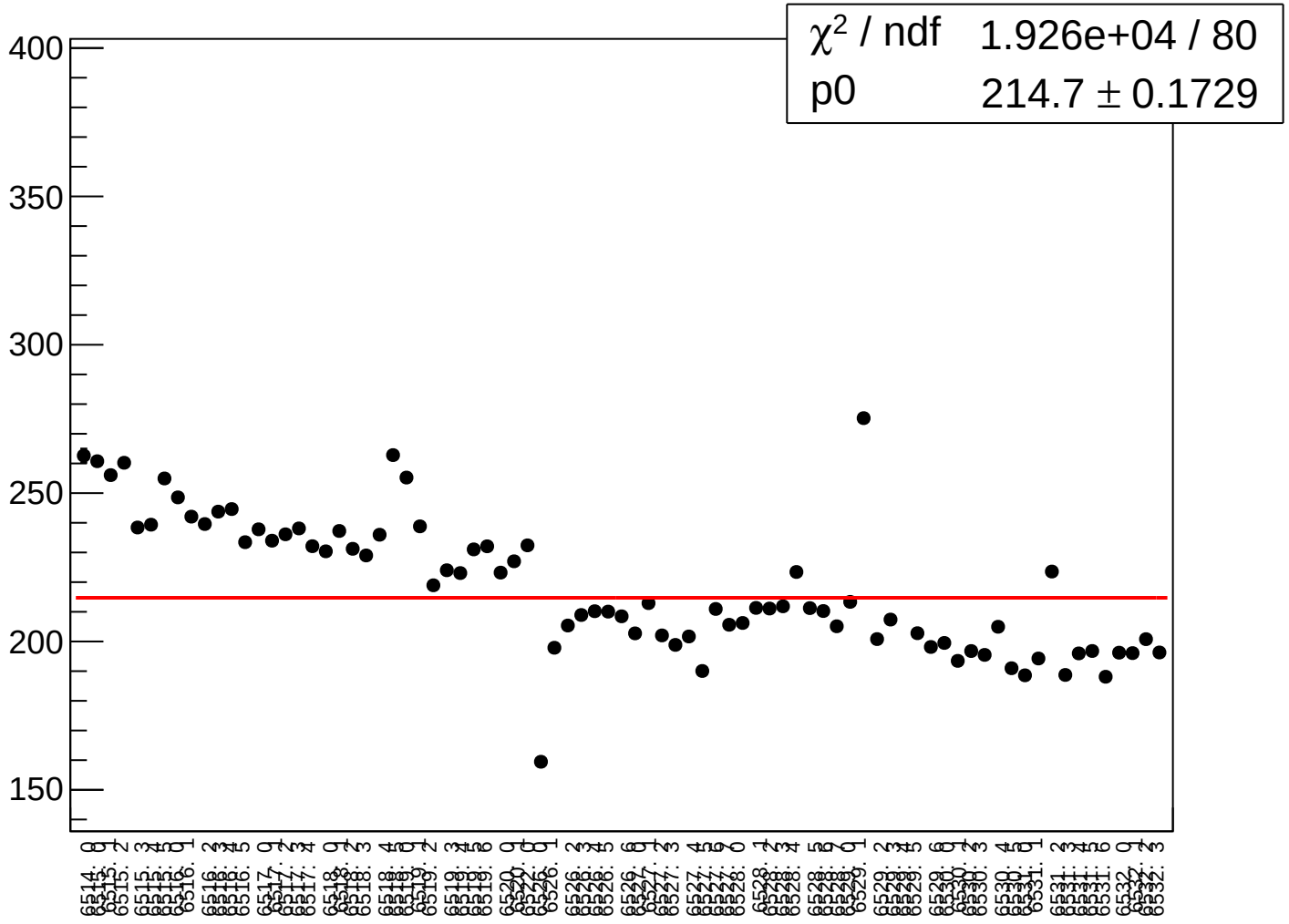

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 75.83 / 80
p0 −7.002 ± 19.02
pull
Entries 81
Mean 150.9
Std Dev 0

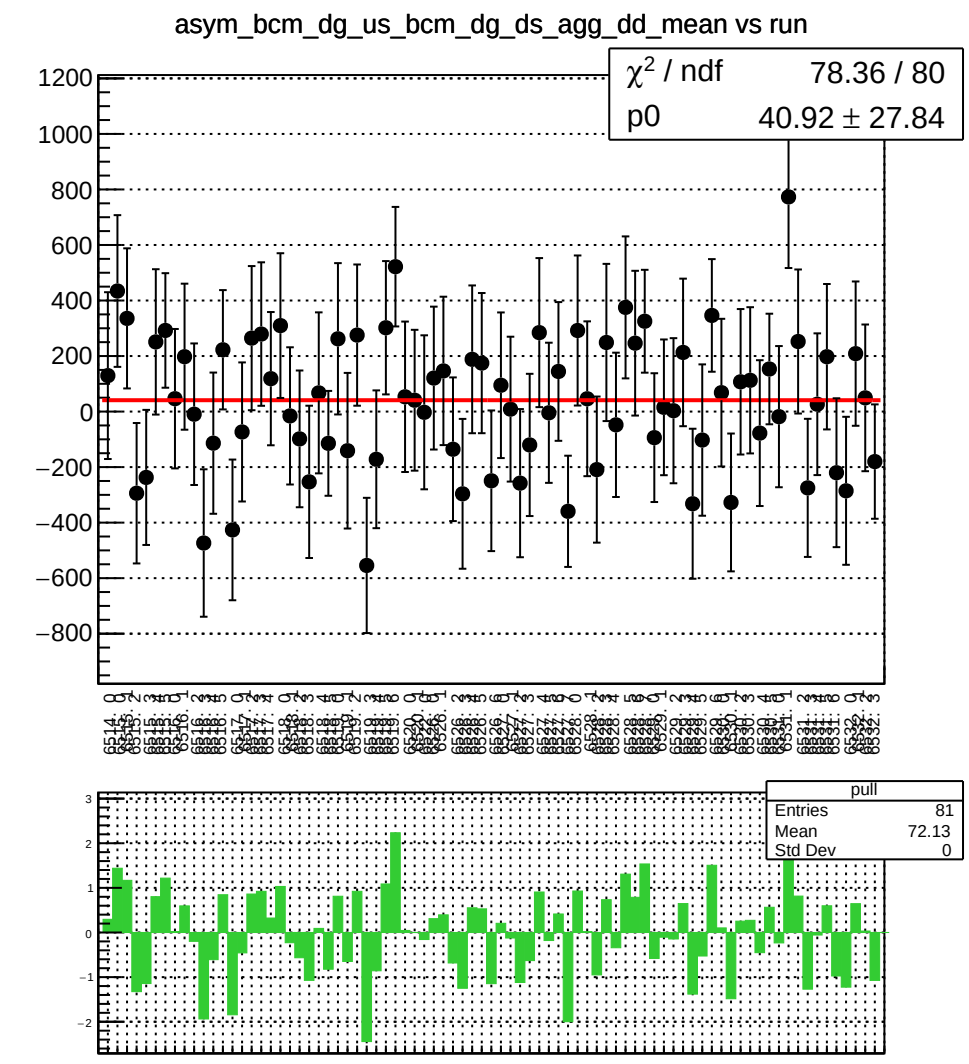

pull1D
Entries 81
Mean 0.02367
Std Dev 0.9672

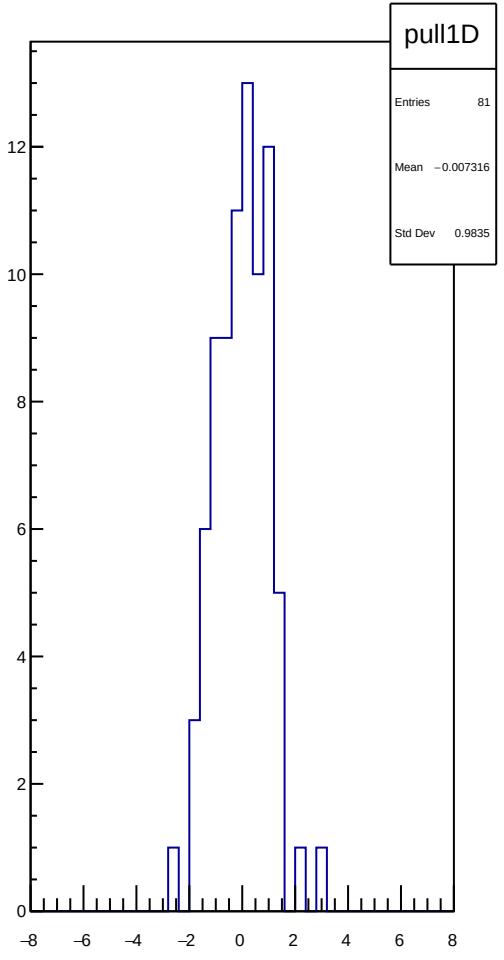

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2095 / 80
p0 16.79 ± 0.01345
19.5
19
18.5
18
17.5
17
16.5
16
15.5

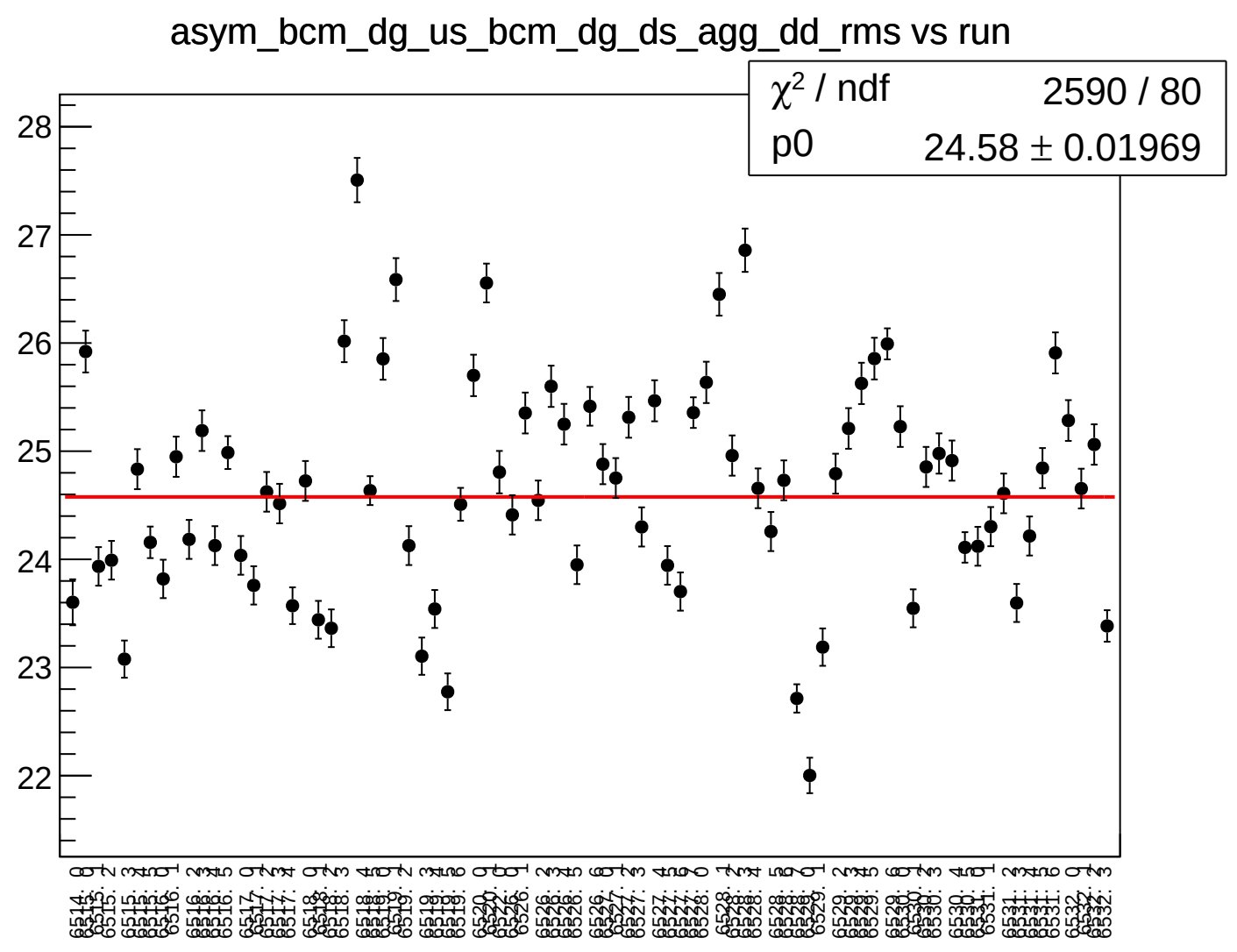

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 22.48 / 80
p0 338.2 ± 244.6
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 81
Mean −268.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1

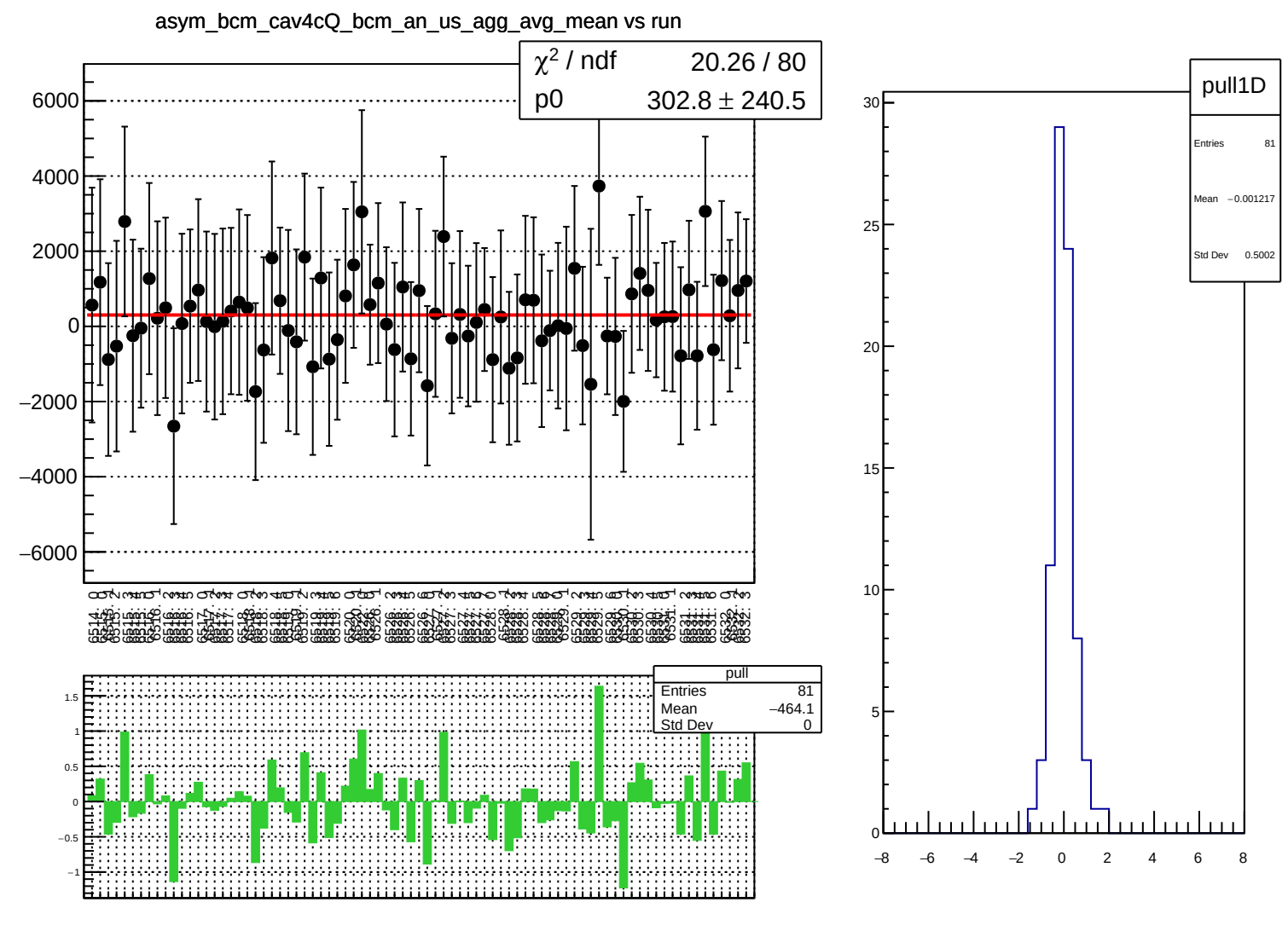

pull1D
Entries 81
Mean −0.002857
Std Dev 0.5268
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

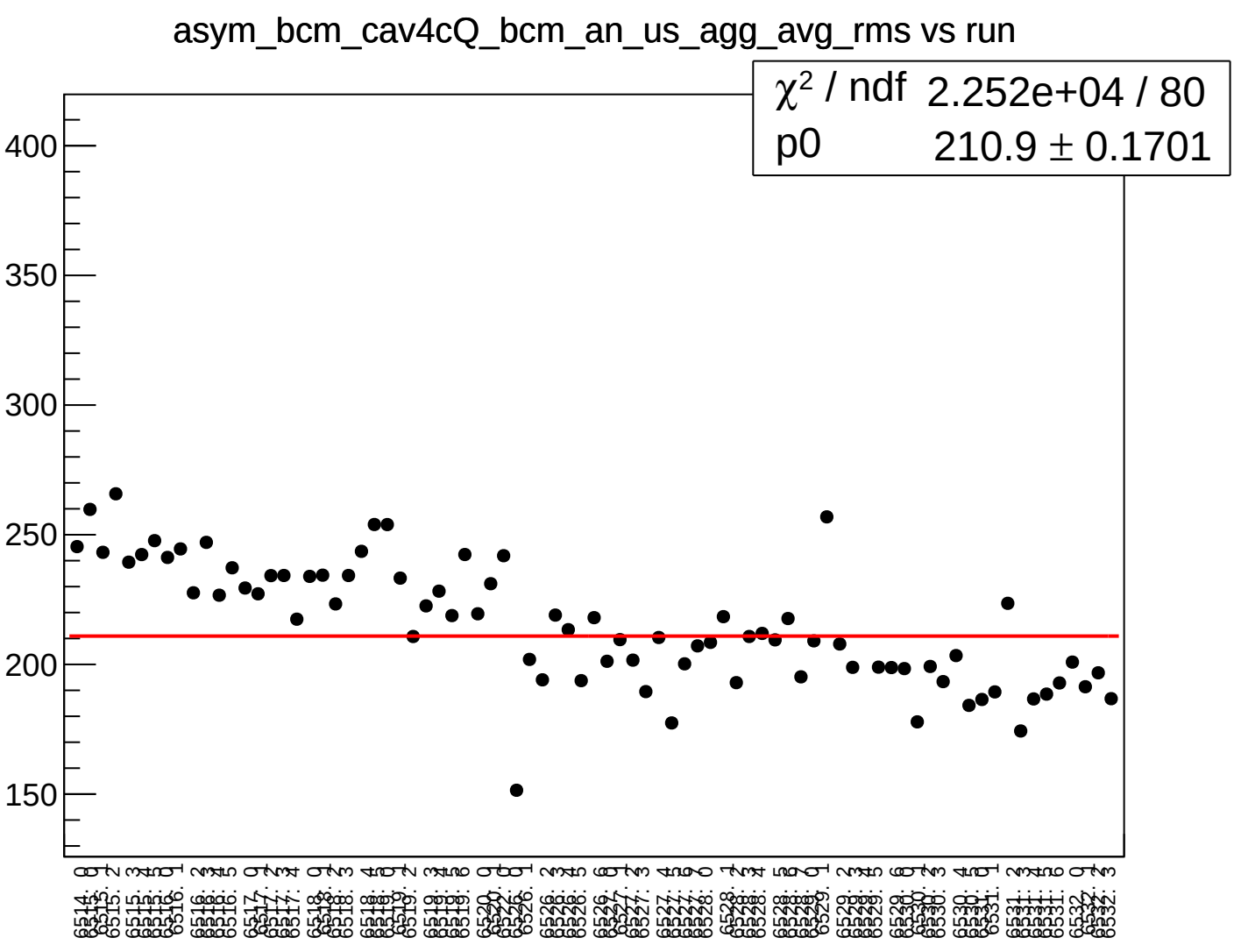

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1.926e+04 / 80
p0 214.7 ± 0.1729
400
350
300
250
200
150

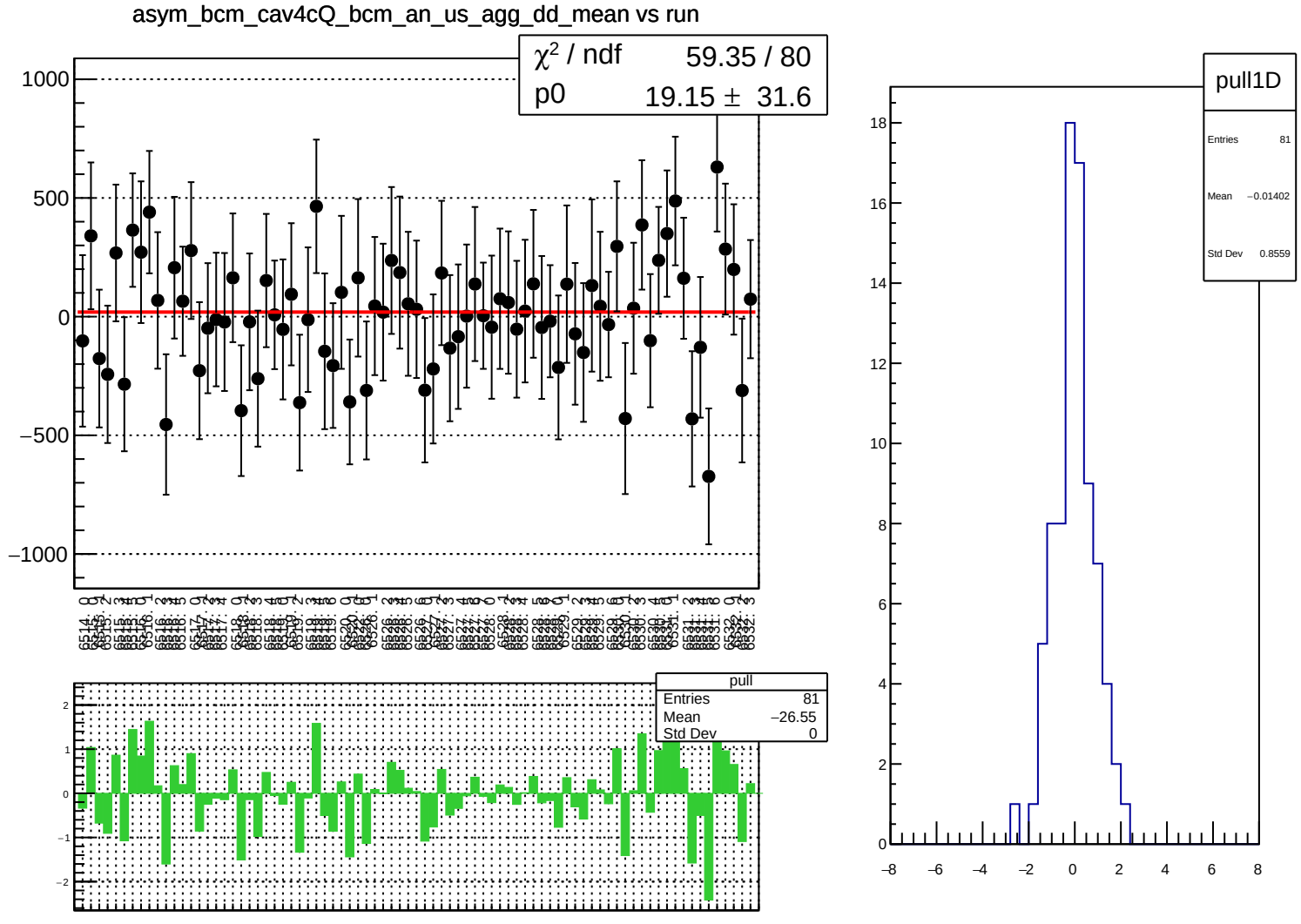

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 78.36 / 80
p0 40.92 ± 27.84
pull
Entries 81
Mean 72.13
Std Dev 0

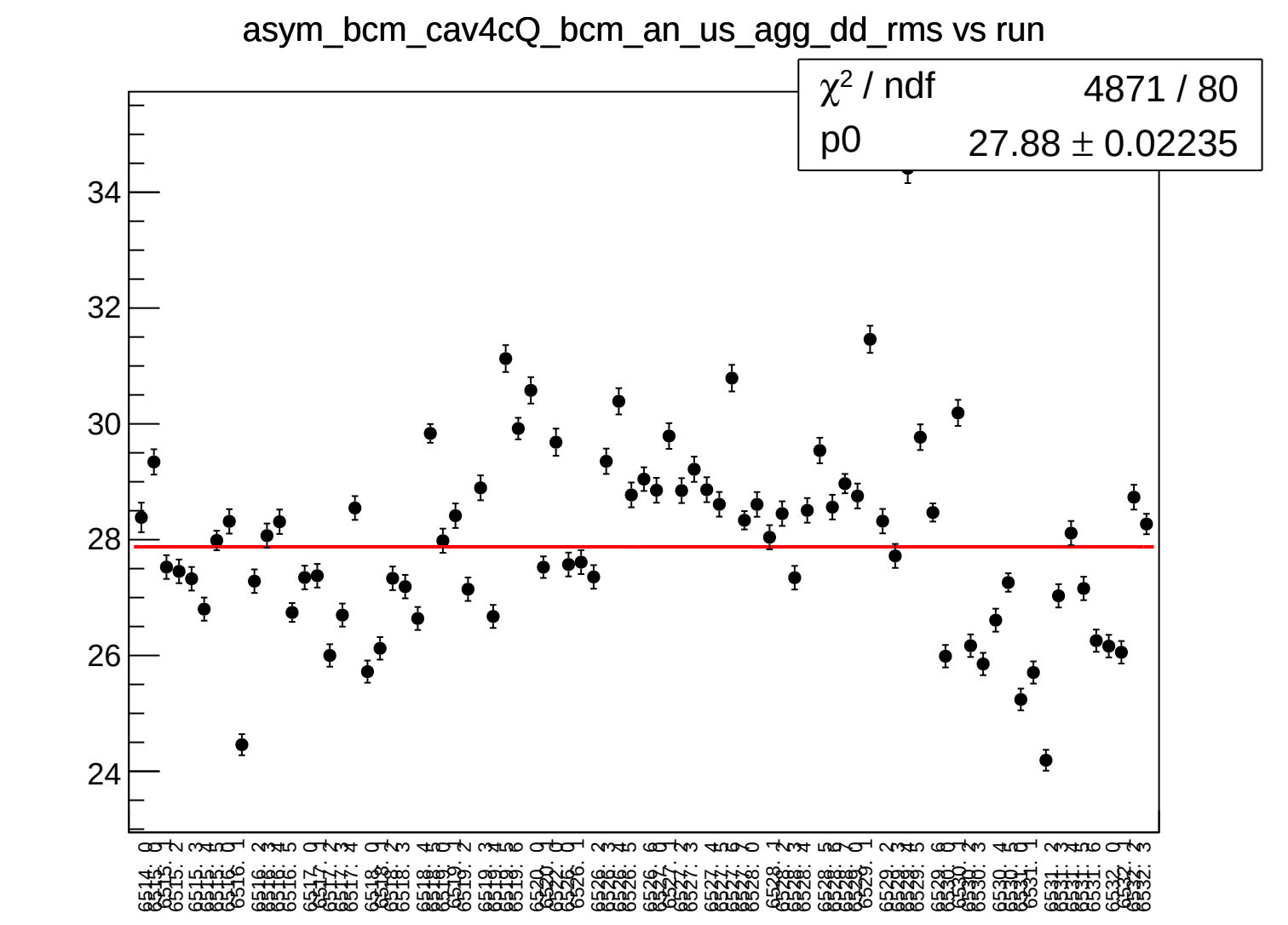

pull1D
Entries 81
Mean −0.007316
Std Dev 0.9835

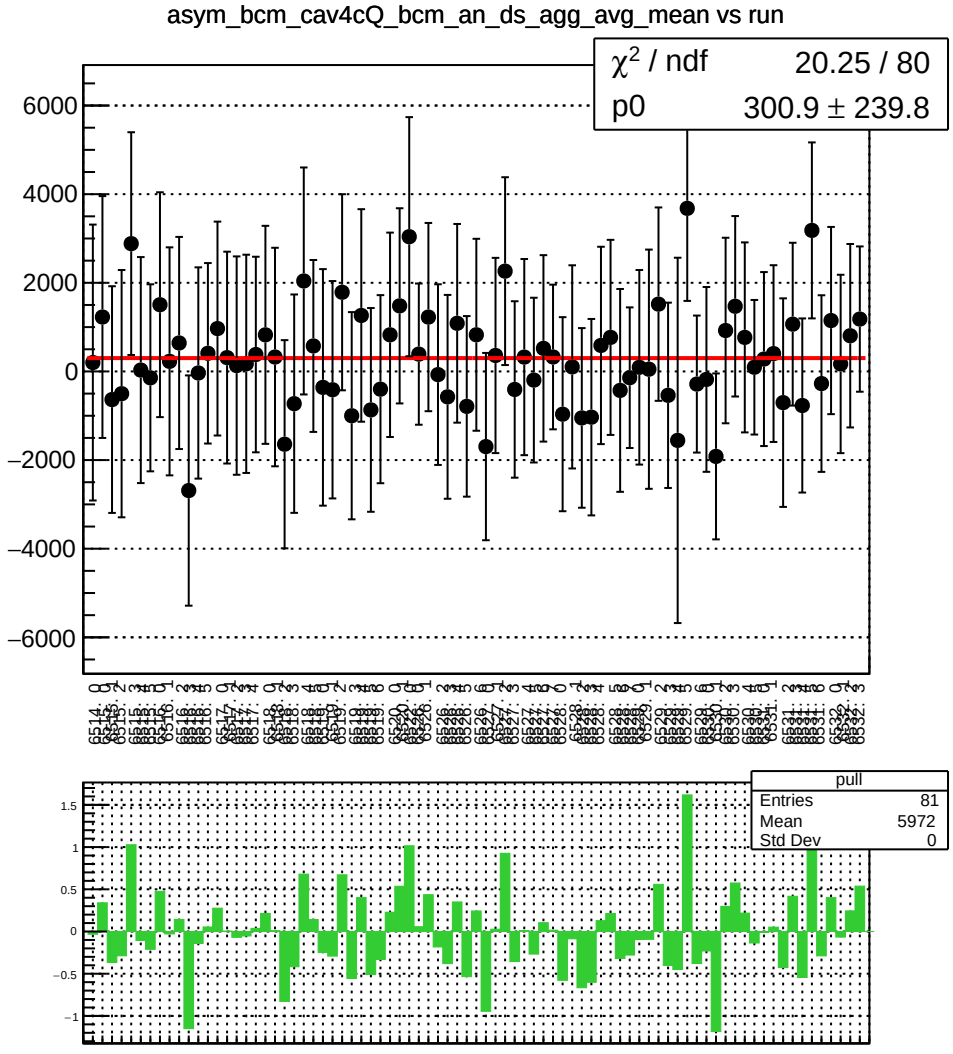

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2590 / 80
p0 24.58 ± 0.01969
28
27
26
25
24
23
22

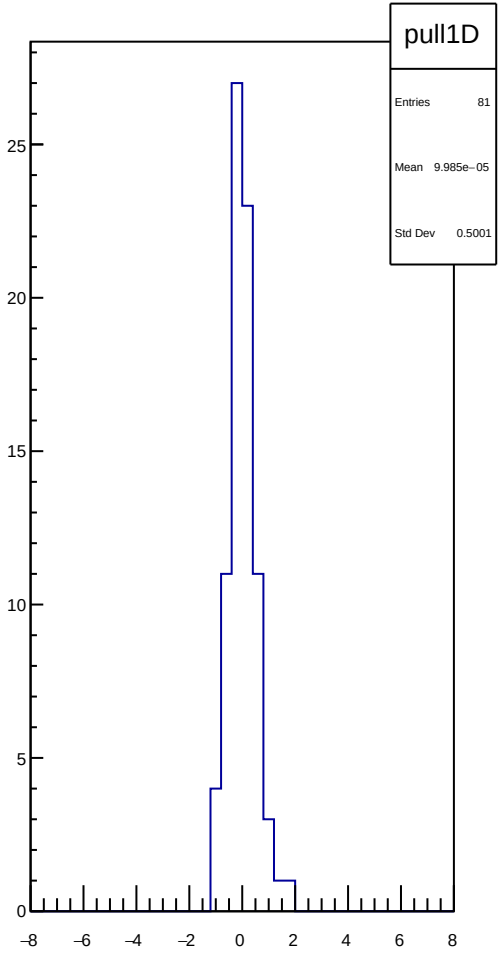

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 20.26 / 80
p0 302.8 ± 240.5
pull
Entries 81
Mean −464.1
Std Dev 0
pull1D
Entries 81
Mean −0.001217
Std Dev 0.5002

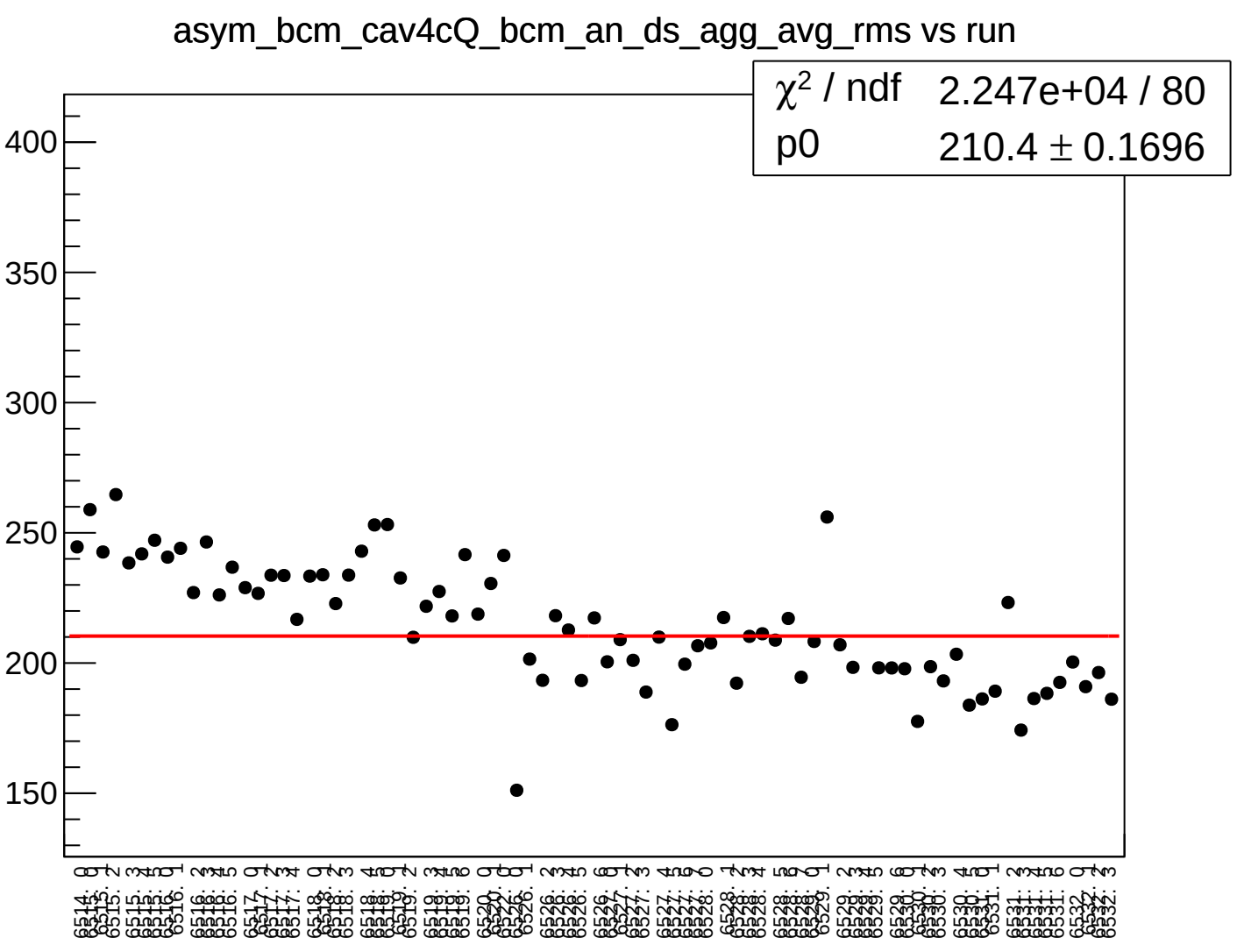

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2.252e+04 / 80
p0 210.9 ± 0.1701
400
350
300
250
200
150

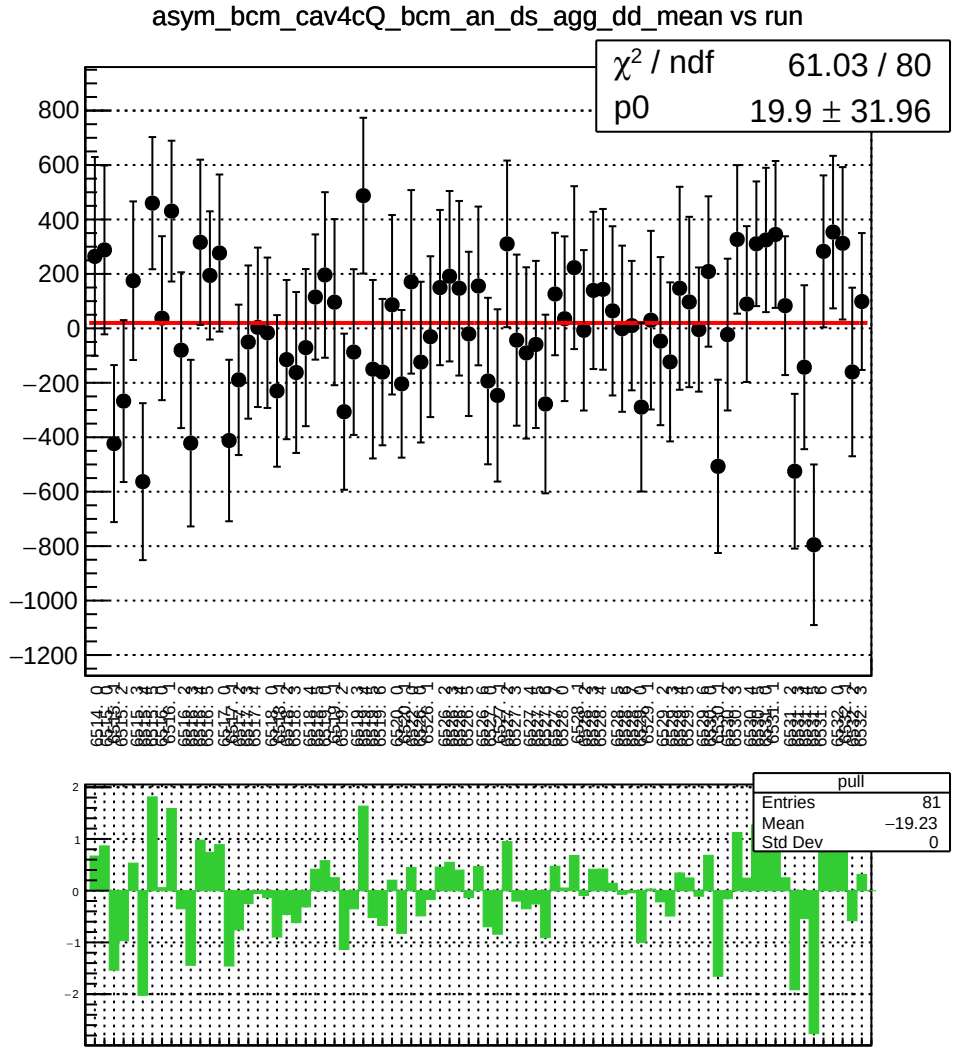

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 59.35 / 80
p0 19.15 ± 31.6
1000
500
0
−500
−1000
pull
Entries 81
Mean −26.55
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 81
Mean −0.01402
Std Dev 0.8559
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

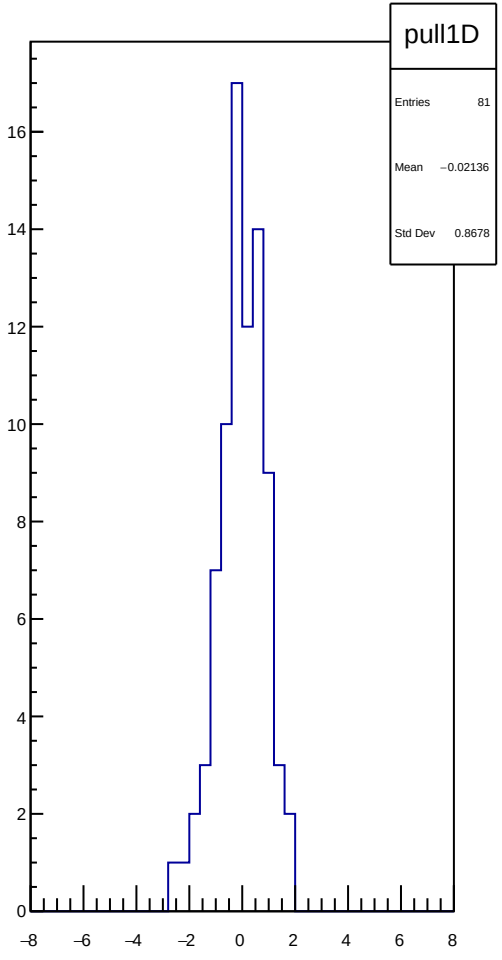

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 4871 / 80
p0 27.88 ± 0.02235
34
32
30
28
26
24

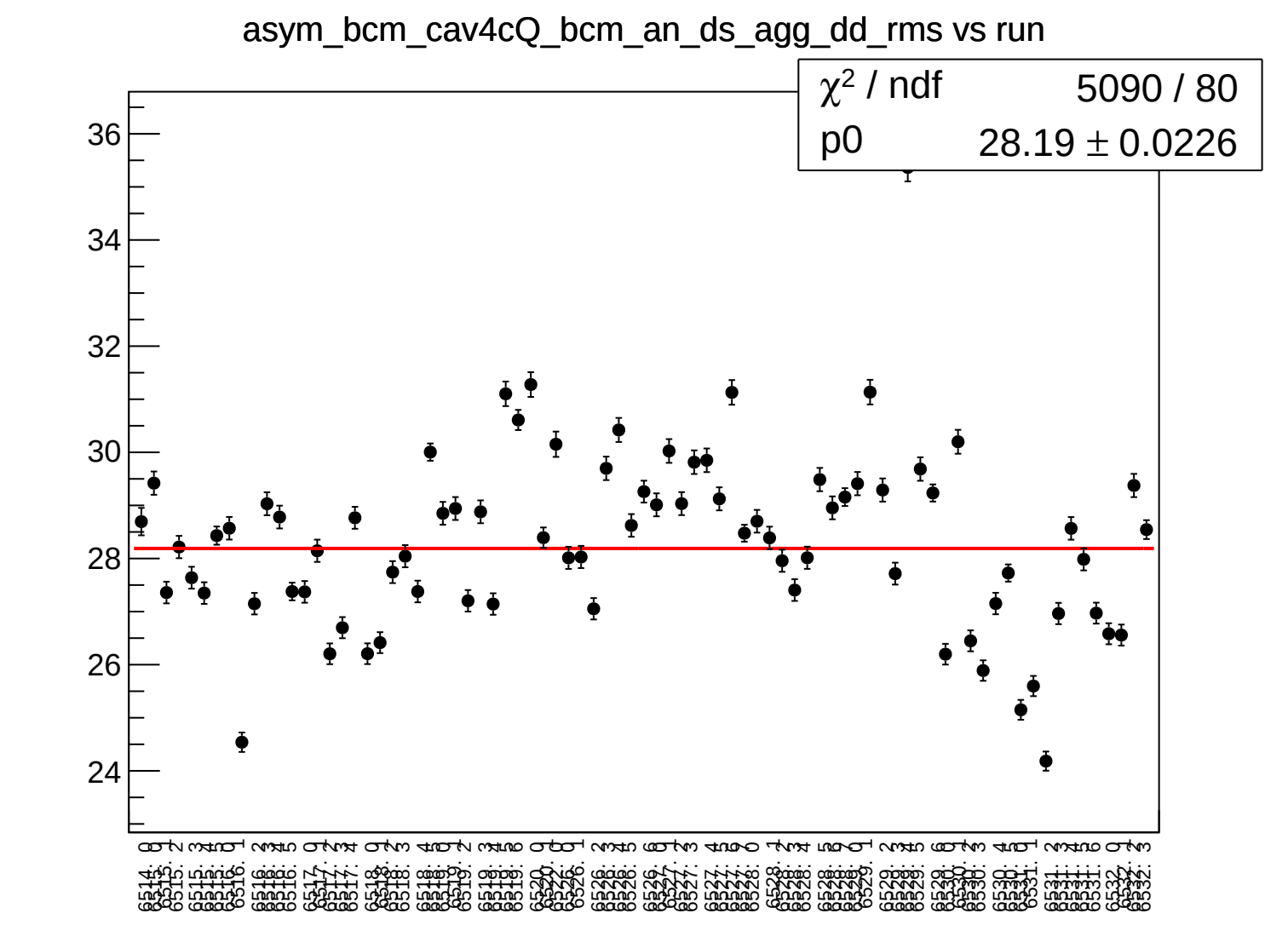

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 20.25 / 80
p0 300.9 ± 239.8
pull
Entries 81
Mean 5972
Std Dev 0

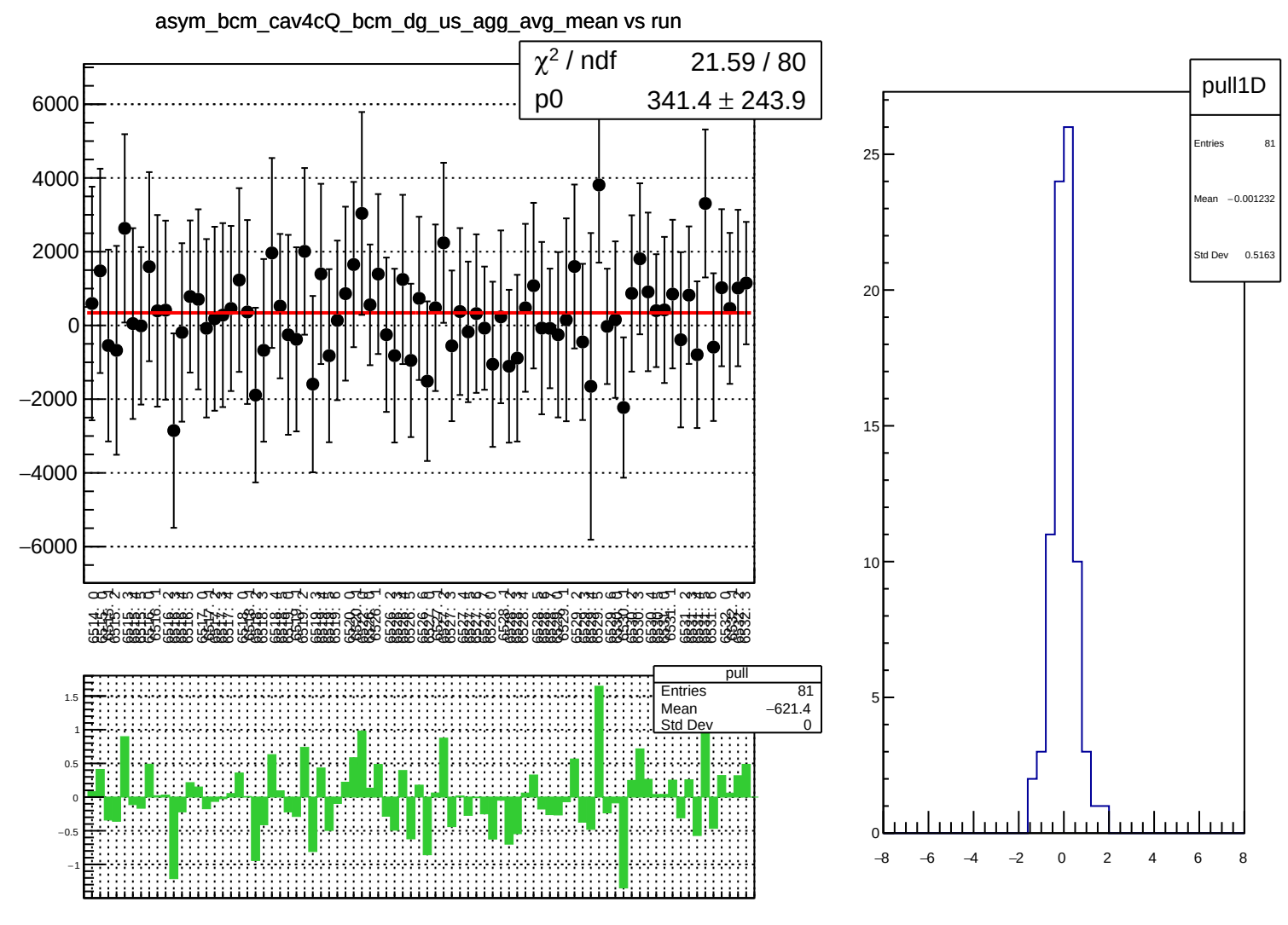

pull1D
Entries 81
Mean 9.985e−05
Std Dev 0.5001

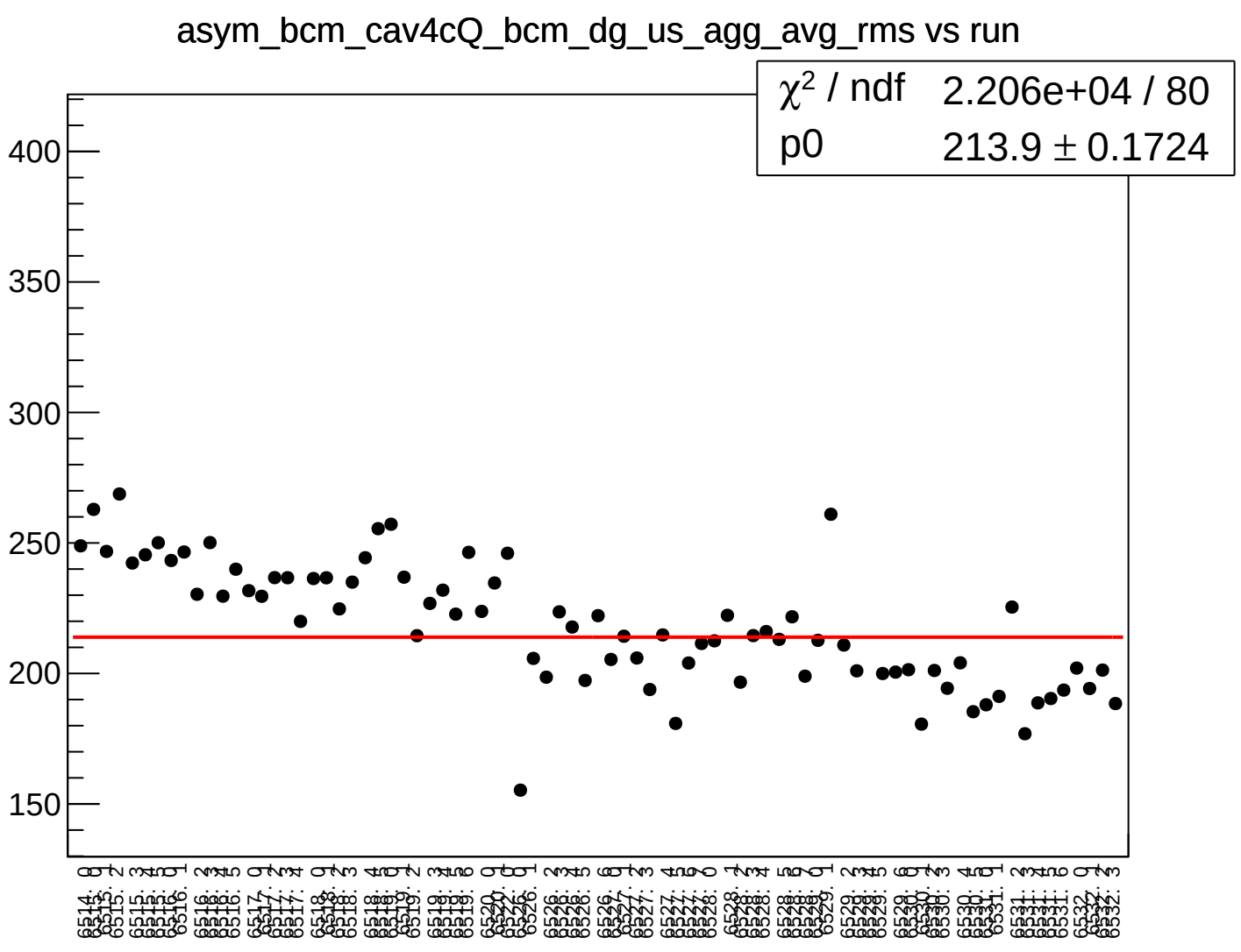

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.247e+04 / 80
p0 210.4 ± 0.1696
400
350
300
250
200
150

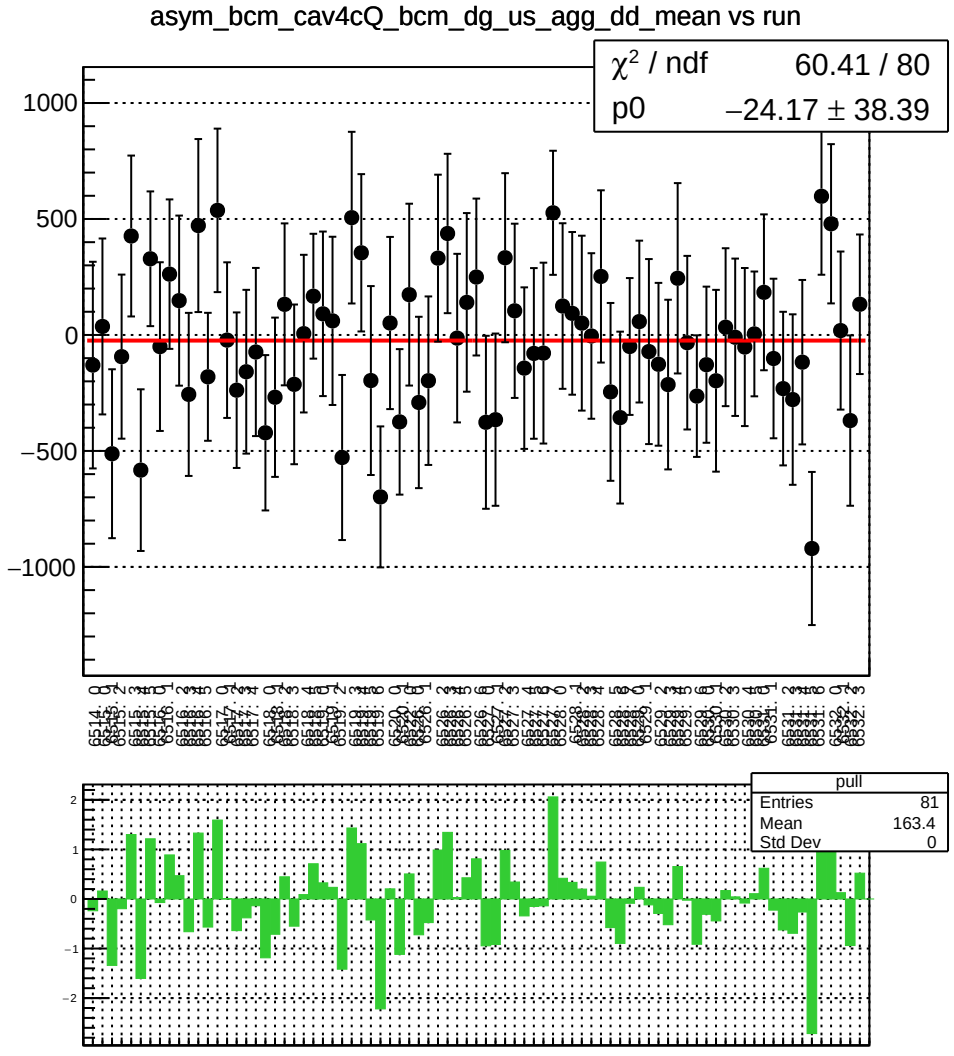

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 61.03 / 80
p0 19.9 ± 31.96
pull
Entries 81
Mean −19.23
Std Dev 0

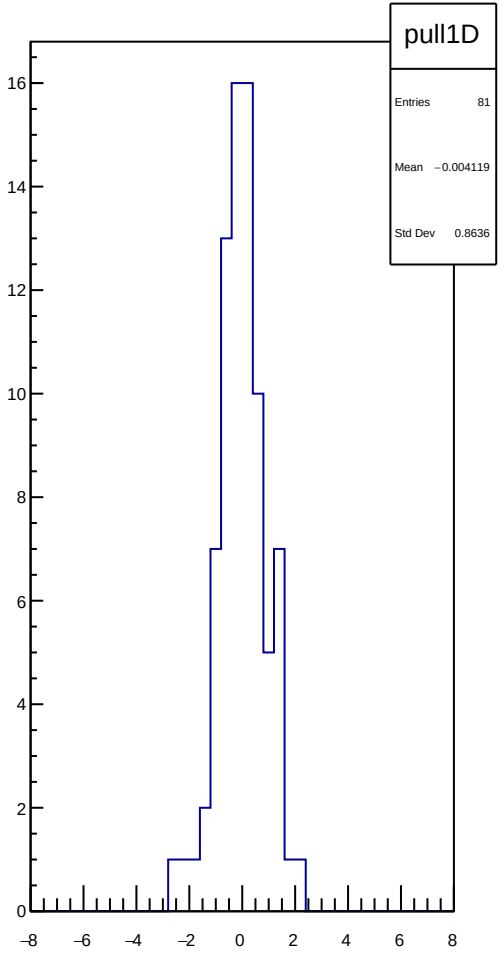

pull1D
Entries 81
Mean −0.02136
Std Dev 0.8678

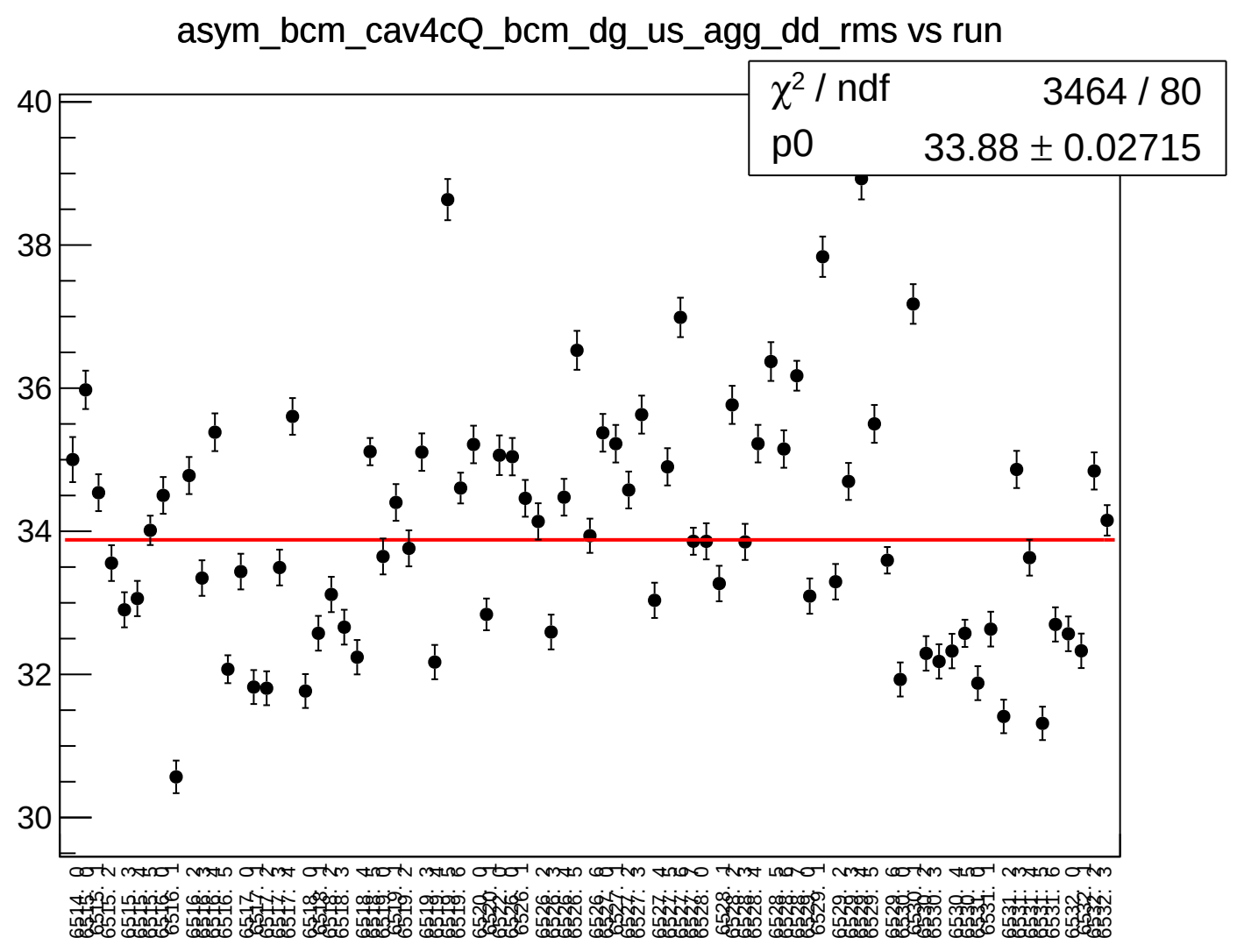

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 5090 / 80
p0 28.19 ± 0.0226
36
34
32
30
28
26
24

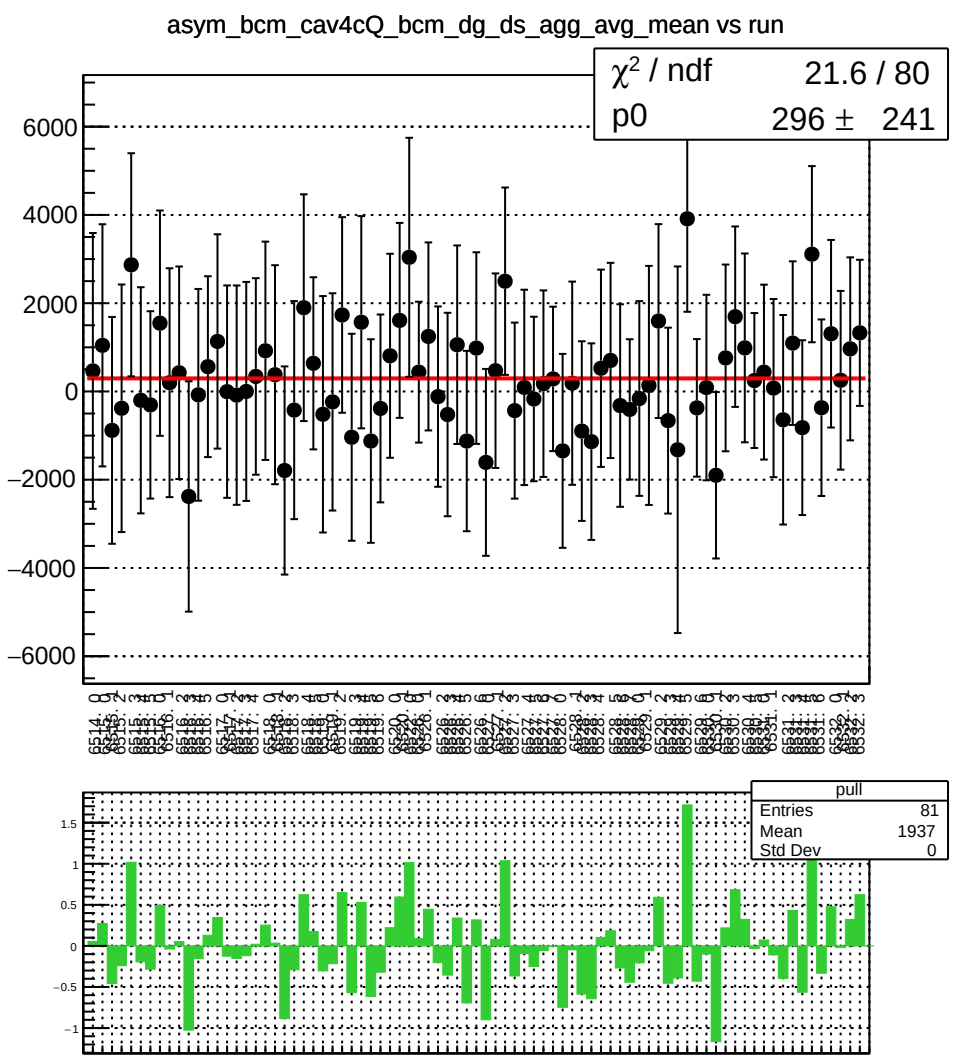

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 21.59 / 80
p0 341.4 ± 243.9
pull
Entries 81
Mean −621.4
Std Dev 0
pull1D
Entries 81
Mean −0.001232
Std Dev 0.5163

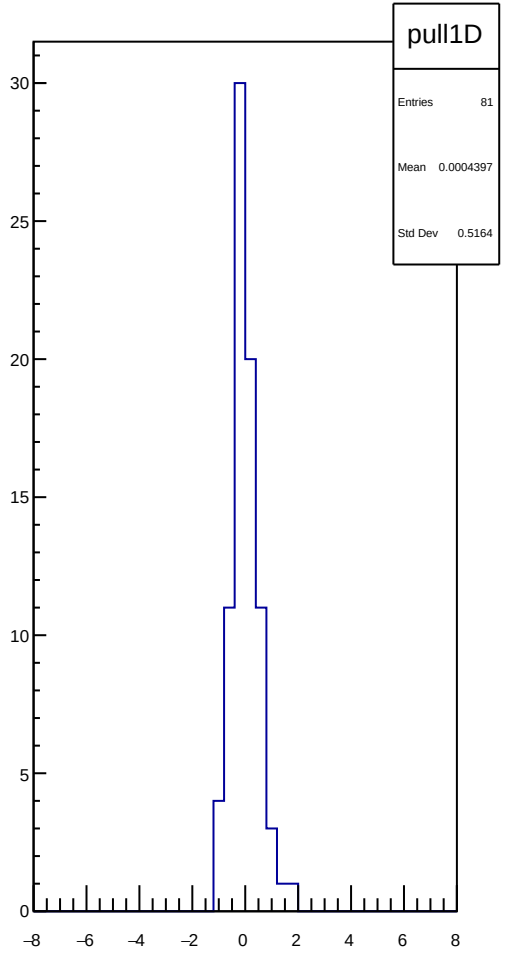

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 2.206e+04 / 80
p0 213.9 ± 0.1724
400
350
300
250
200
150

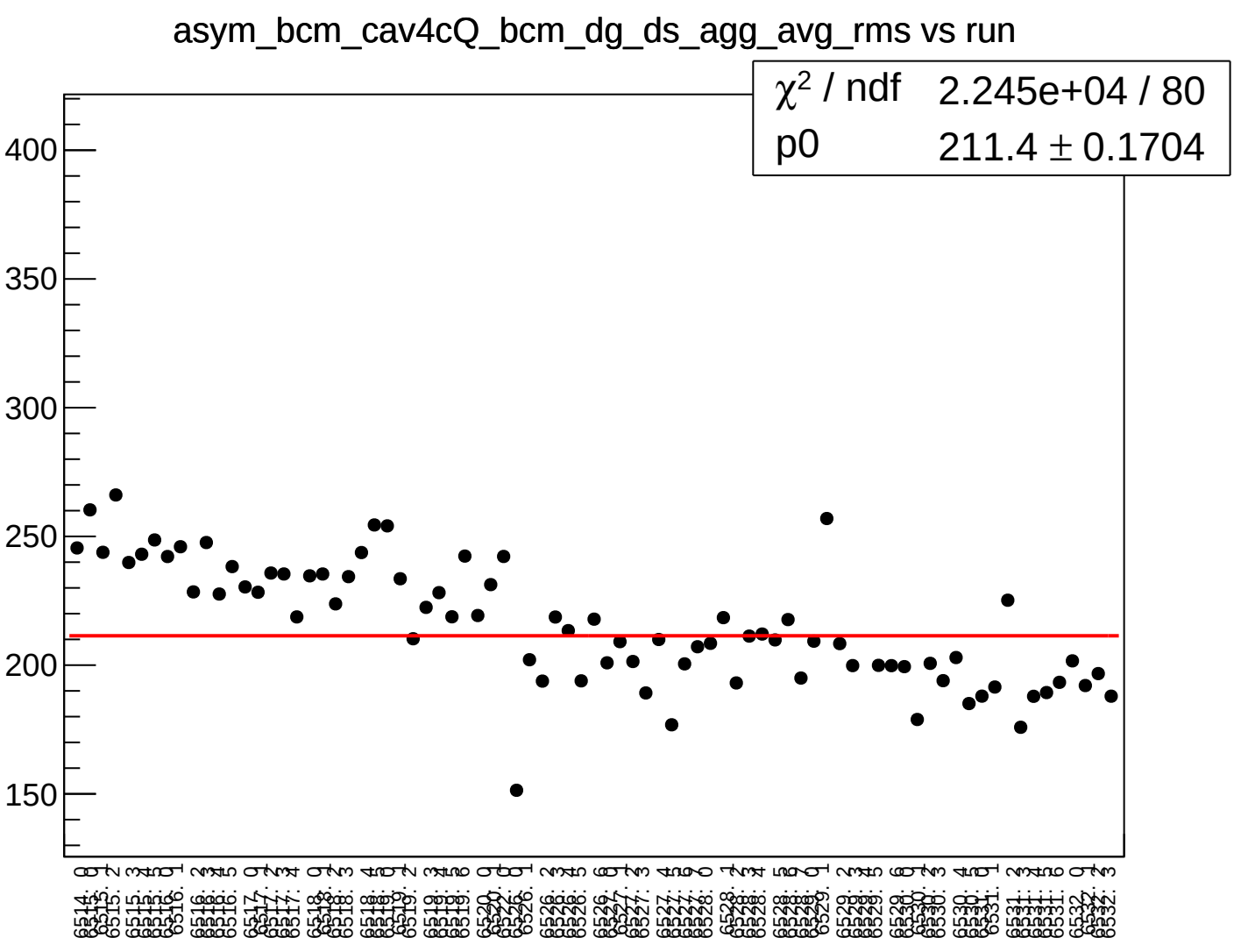

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 60.41 / 80
p0 −24.17 ± 38.39
1000
500
0
−500
−1000
pull
Entries 81
Mean 163.4
Std Dev 0
2
1
0
−1
−2

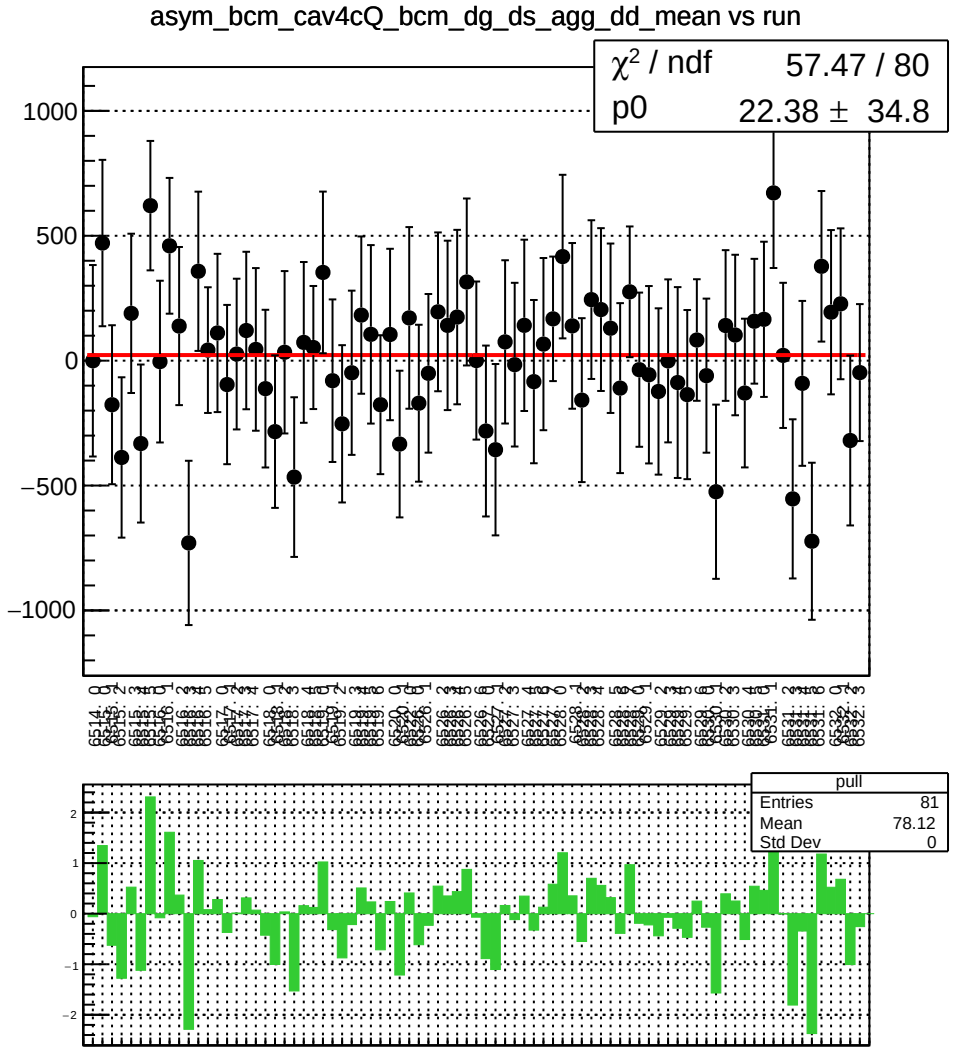

pull1D
Entries 81
Mean −0.004119
Std Dev 0.8636
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

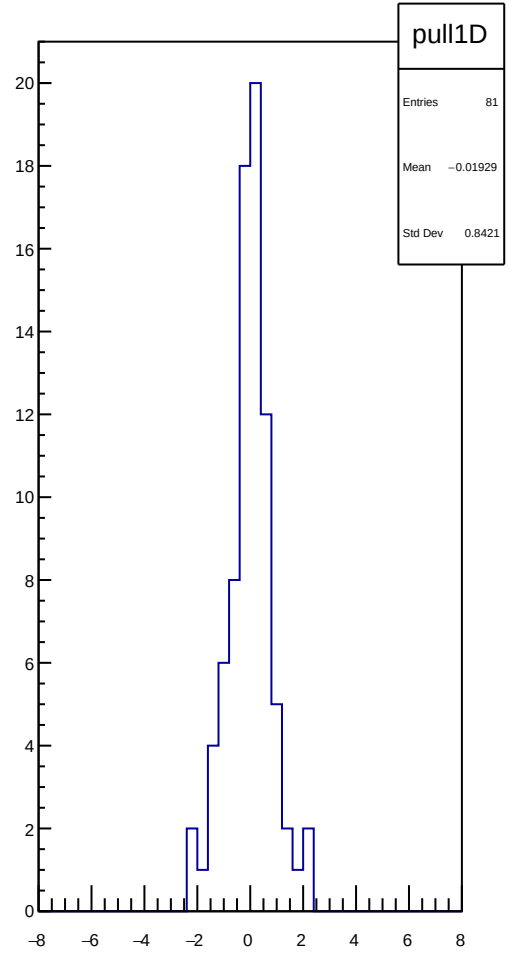

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 3464 / 80
p0 33.88 ± 0.02715
40
38
36
34
32
30

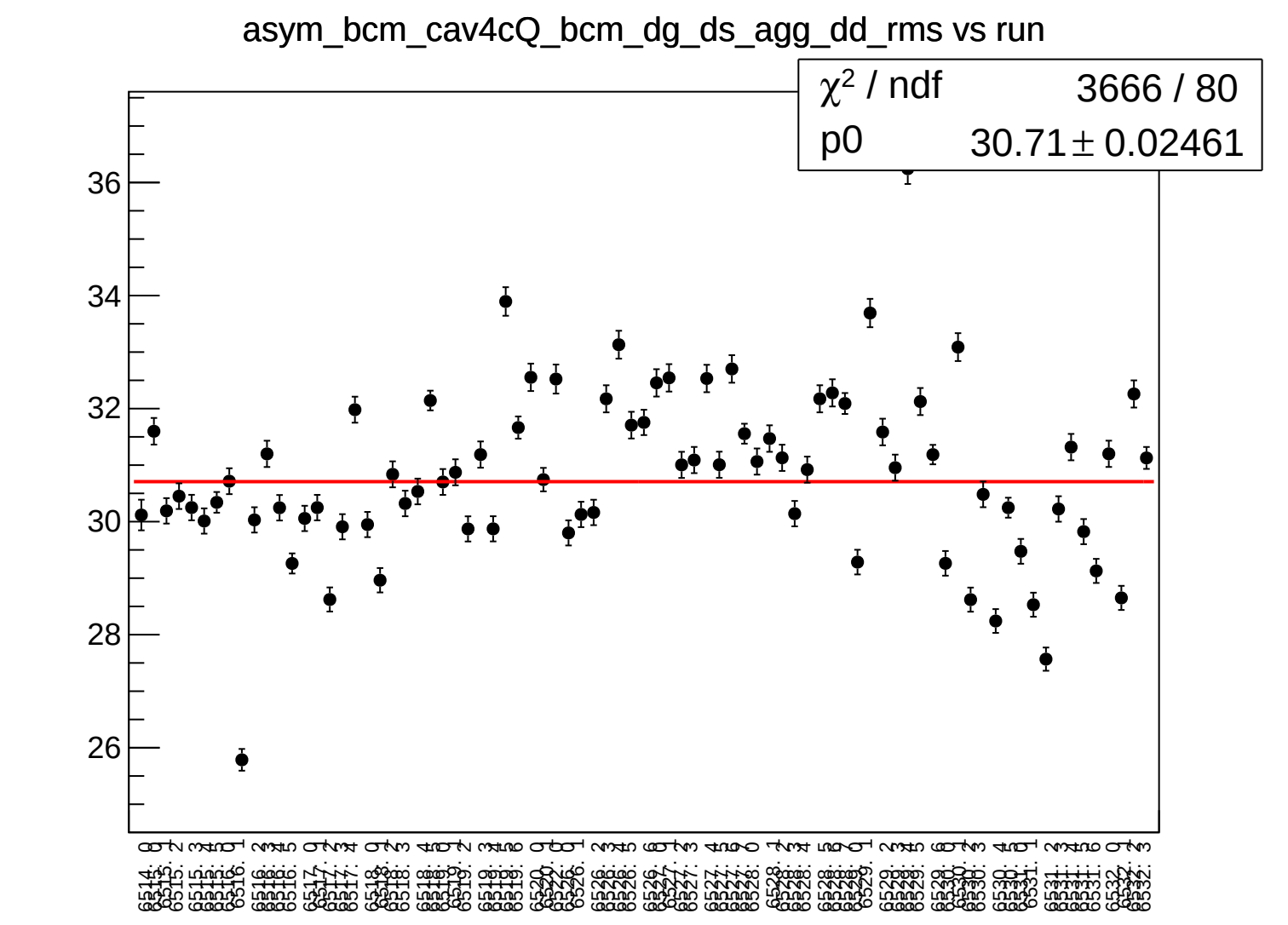

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 21.6 / 80
p0 296 ± 241
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 81
Mean 1937
Std Dev 0
1.5
1
0.5
0
−0.5
−1

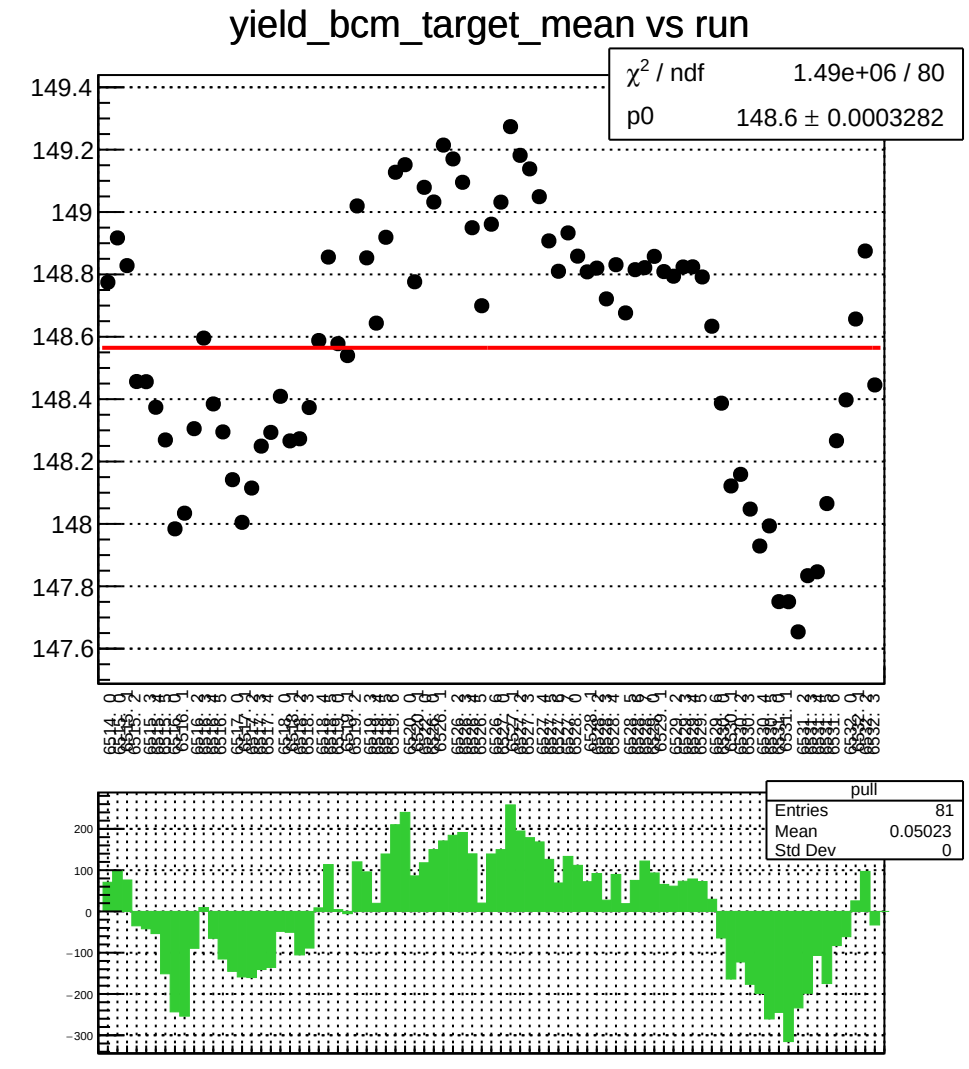

pull1D
Entries 81
Mean 0.0004397
Std Dev 0.5164
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

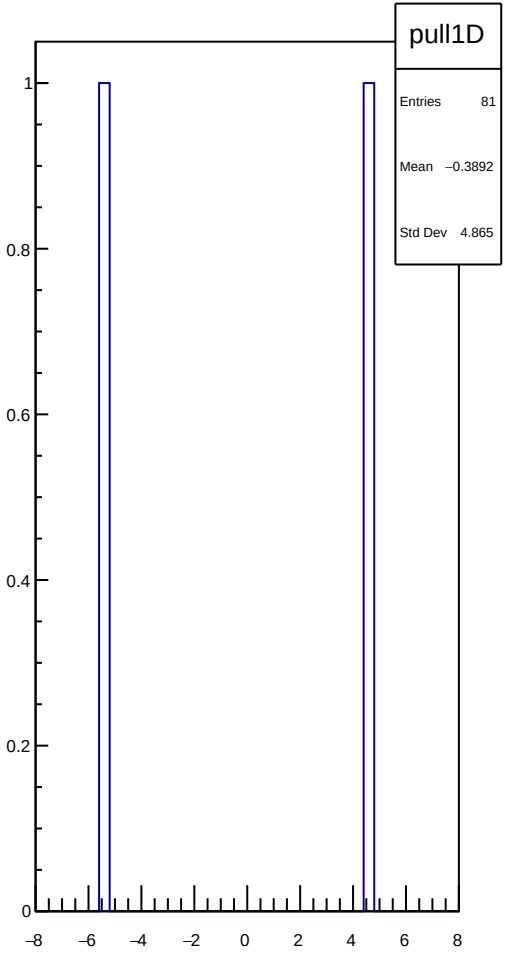

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 2.245e+04 / 80
p0 211.4 ± 0.1704
400
350
300
250
200
150

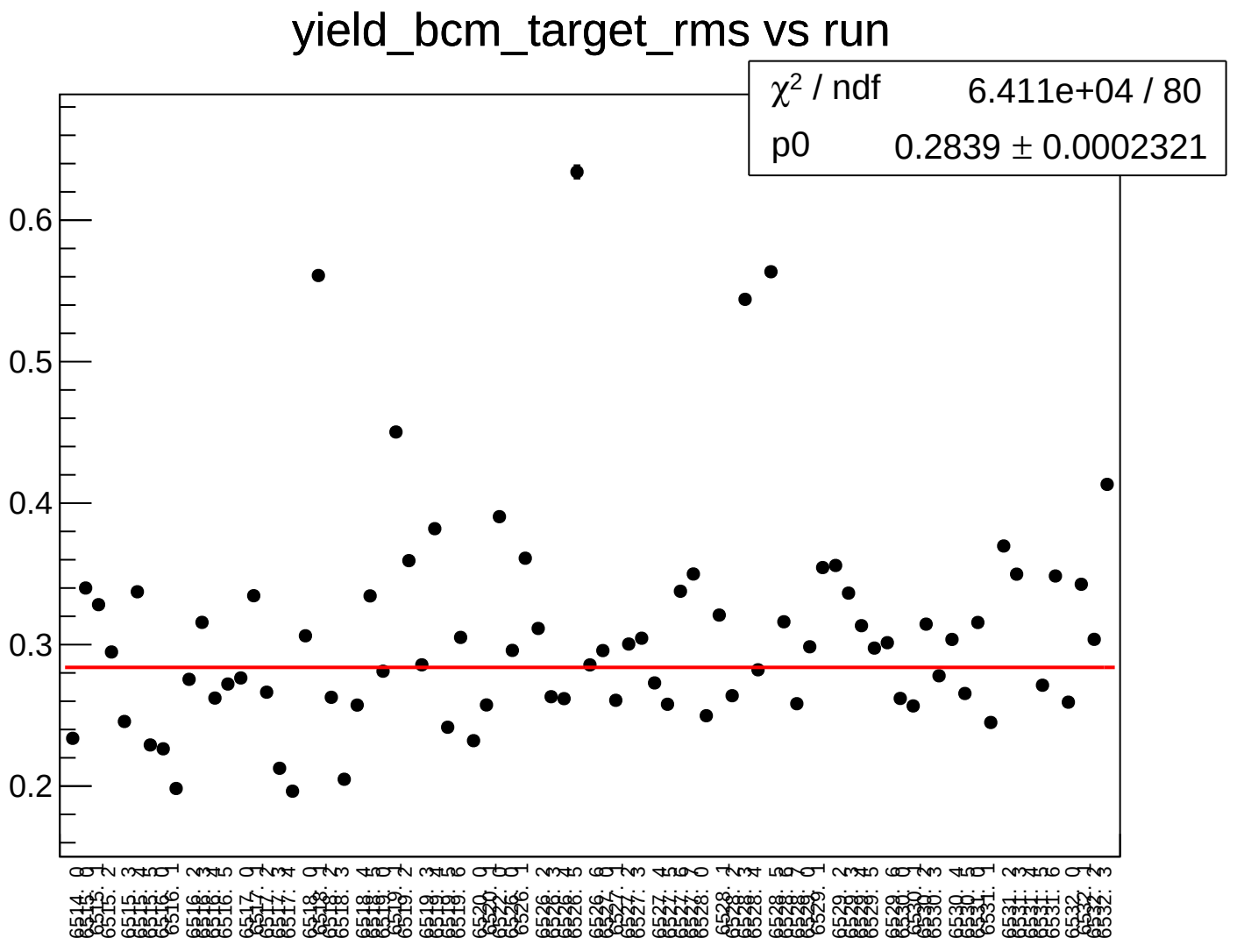

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 57.47 / 80
p0 22.38 ± 34.8
1000
500
0
−500
−1000
pull
Entries 81
Mean 78.12
Std Dev 0
2
1
0
−1
−2

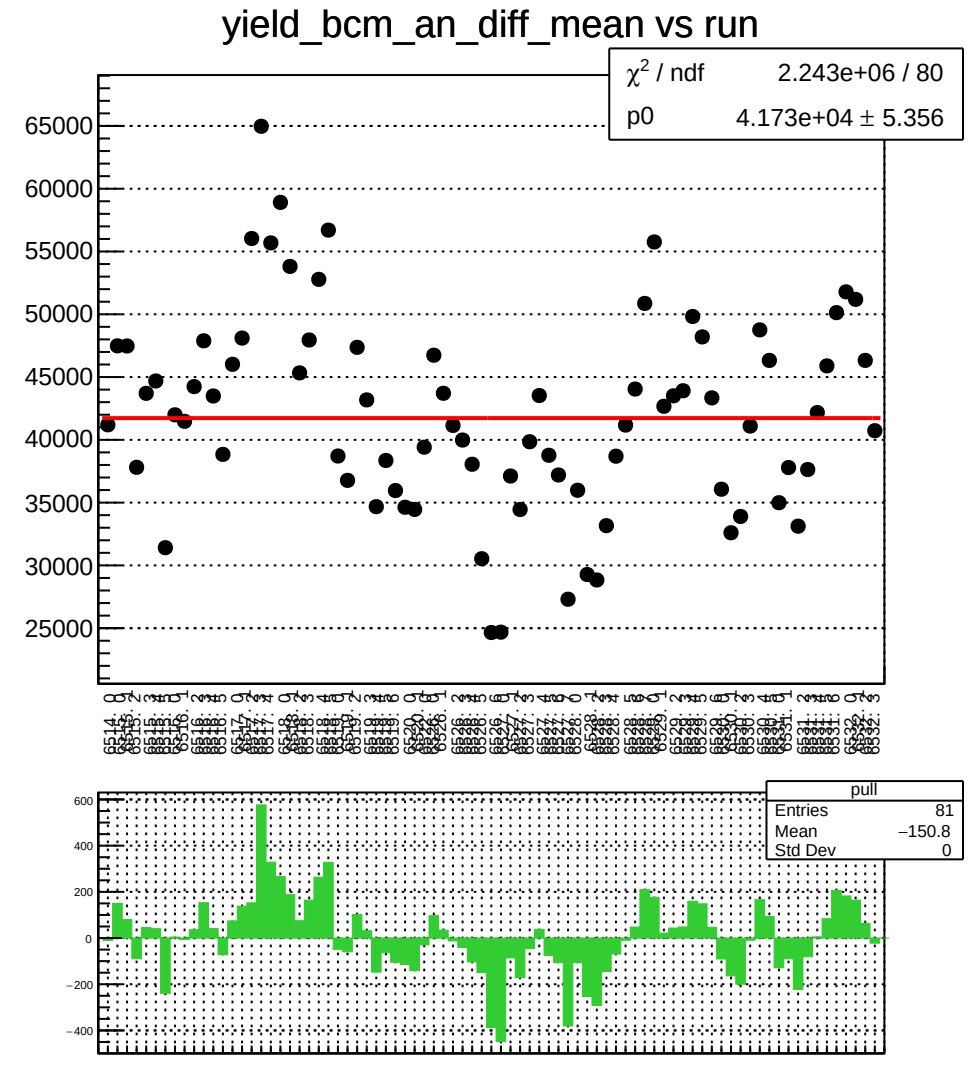

pull1D
Entries 81
Mean −0.01929
Std Dev 0.8421
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

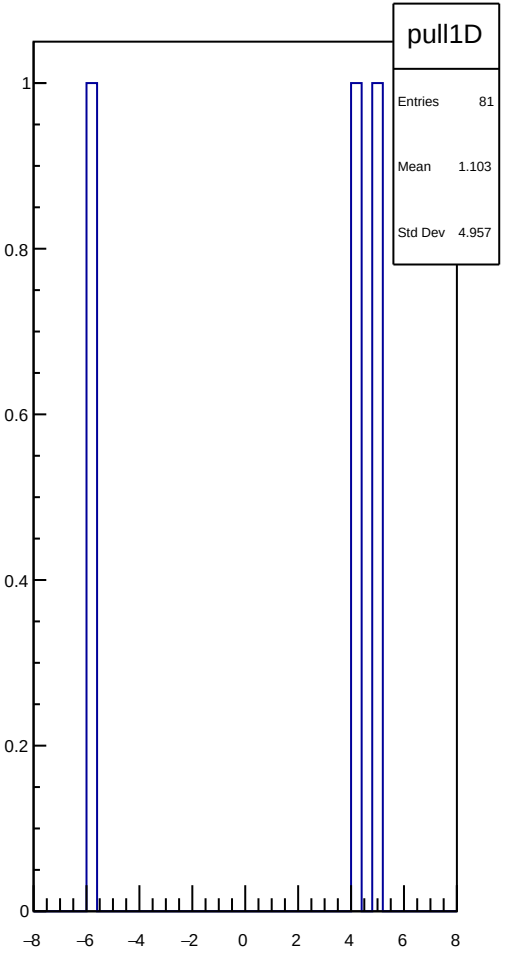

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 3666 / 80
p0 30.71 ± 0.02461
36
34
32
30
28
26

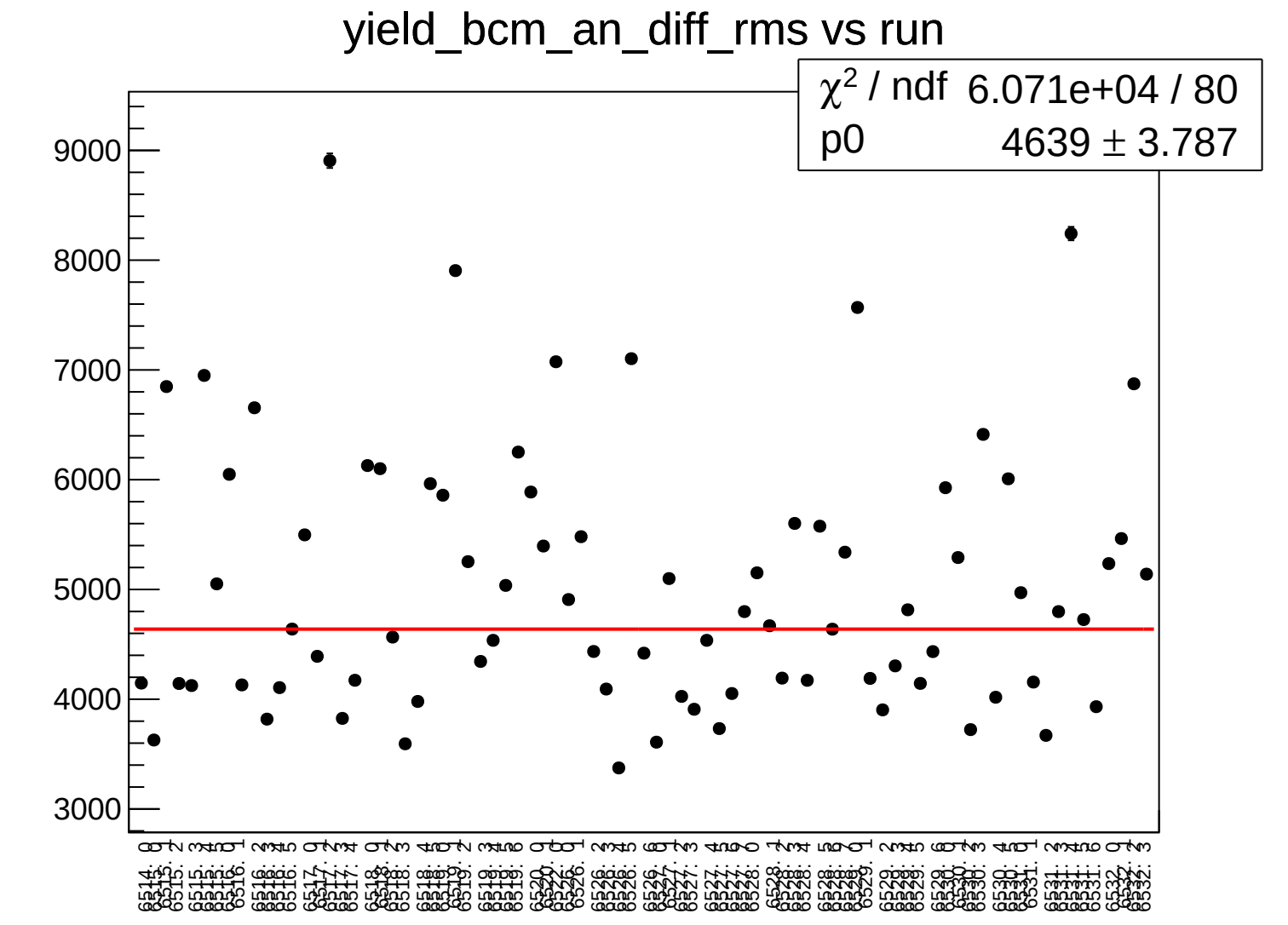

yield_bcm_target_mean vs run
χ² / ndf 1.49e+06 / 80
p0 148.6 ± 0.0003282
149.4
149.2
149
148.8
148.6
148.4
148.2
148
147.8
147.6
pull
Entries 81
Mean 0.05023
Std Dev 0
200
100
0
−100
−200
−300

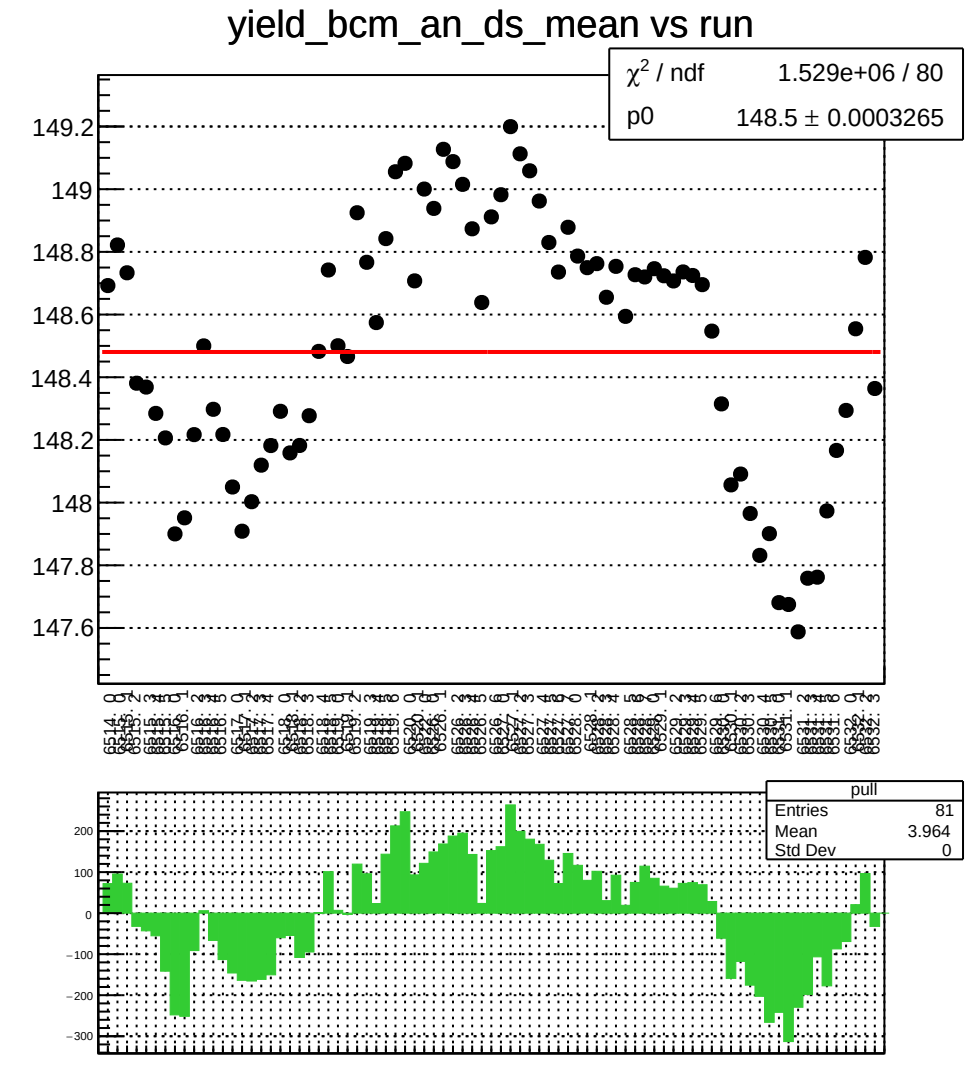

pull1D
Entries 81
Mean −0.3892
Std Dev 4.865
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

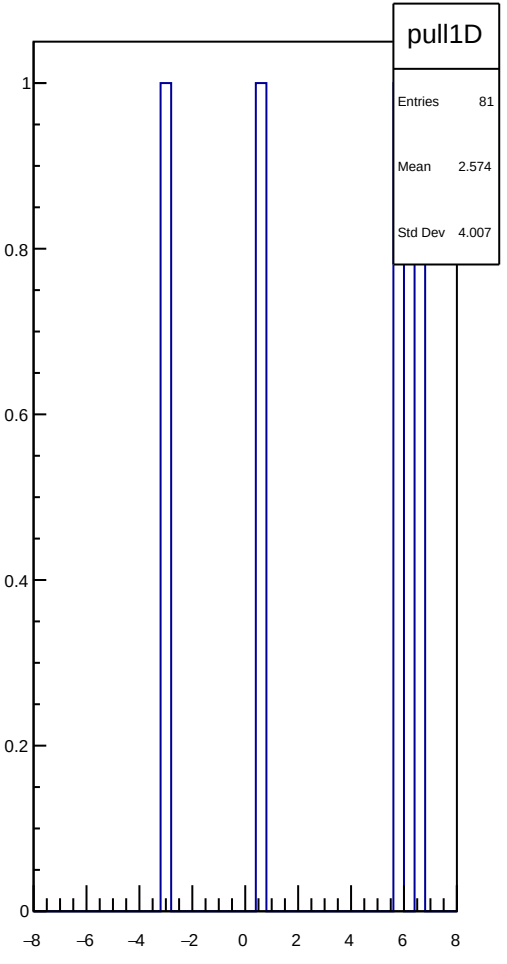

yield_bcm_target_rms vs run
χ² / ndf 6.411e+04 / 80
p0 0.2839 ± 0.0002321
0.6
0.5
0.4
0.3
0.2

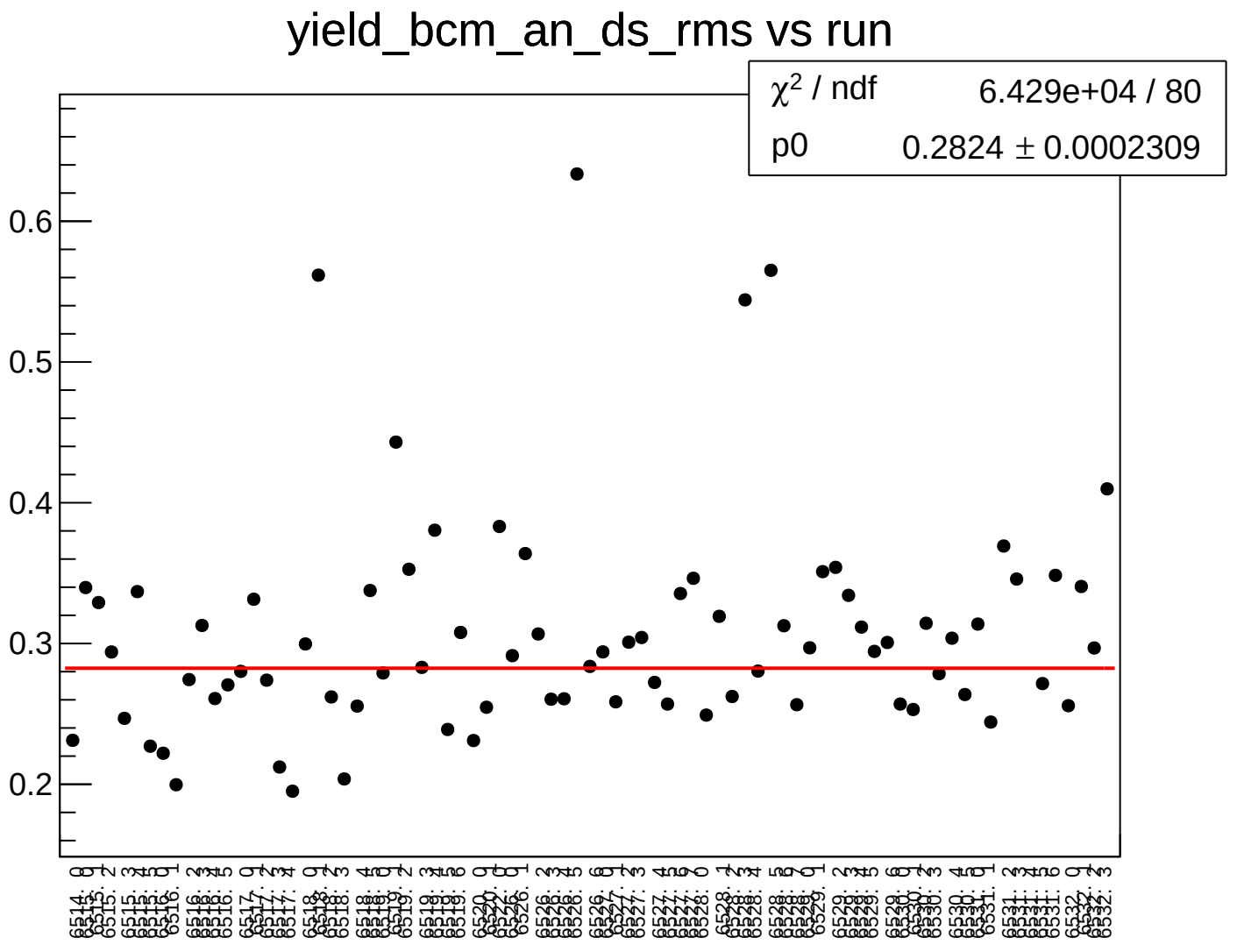

yield_bcm_an_diff_mean vs run
χ² / ndf 2.243e+06 / 80
p0 4.173e+04 ± 5.356
65000
60000
55000
50000
45000
40000
35000
30000
25000
pull
Entries 81
Mean −150.8
Std Dev 0
600
400
200
0
−200
−400

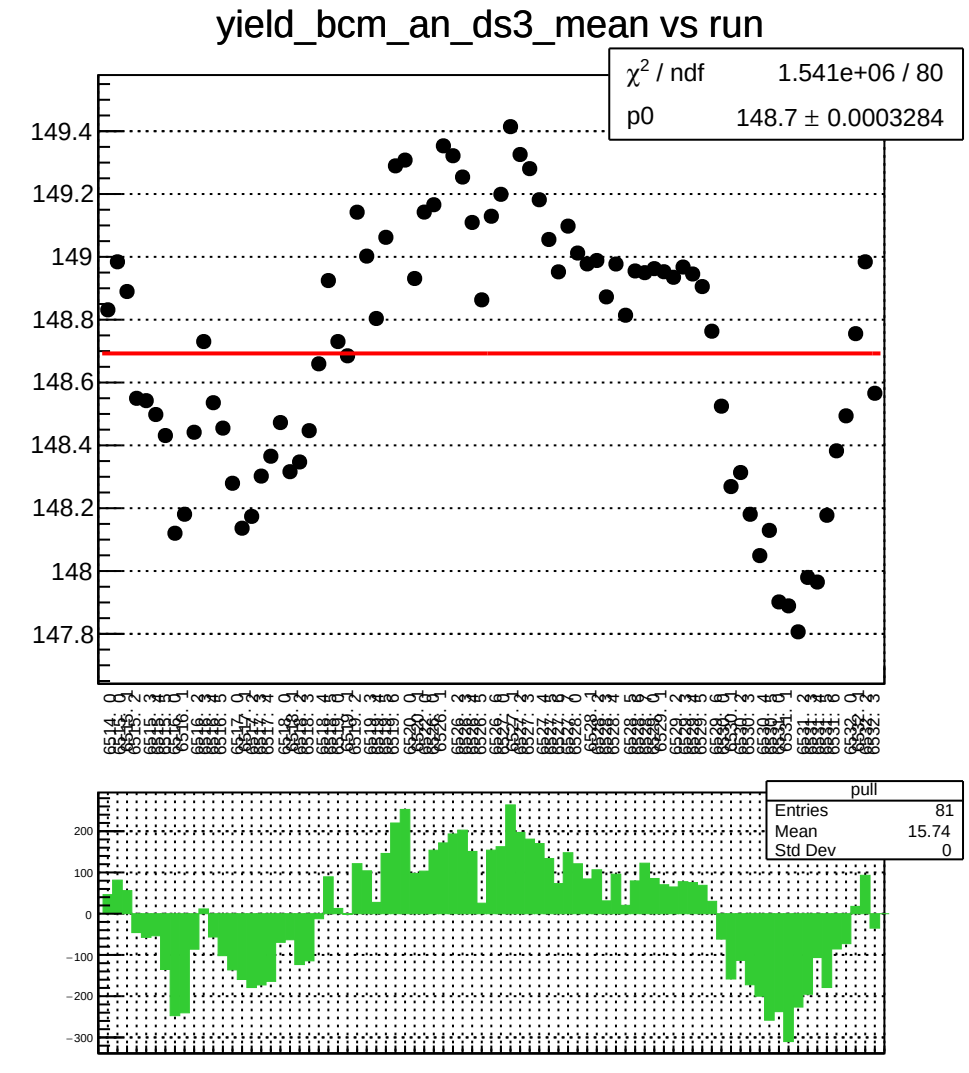

pull1D
Entries 81
Mean 1.103
Std Dev 4.957
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

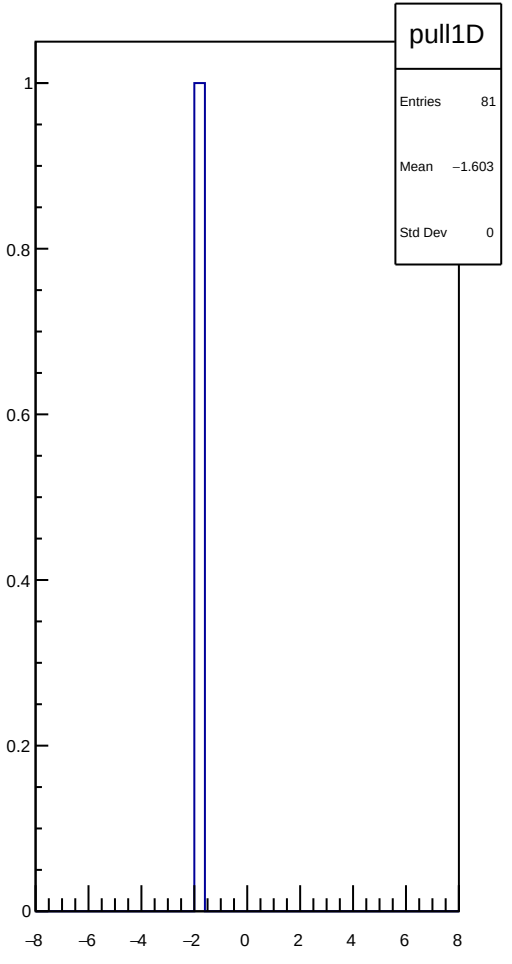

yield_bcm_an_diff_rms vs run
χ² / ndf 6.071e+04 / 80
p0 4639 ± 3.787
9000
8000
7000
6000
5000
4000
3000

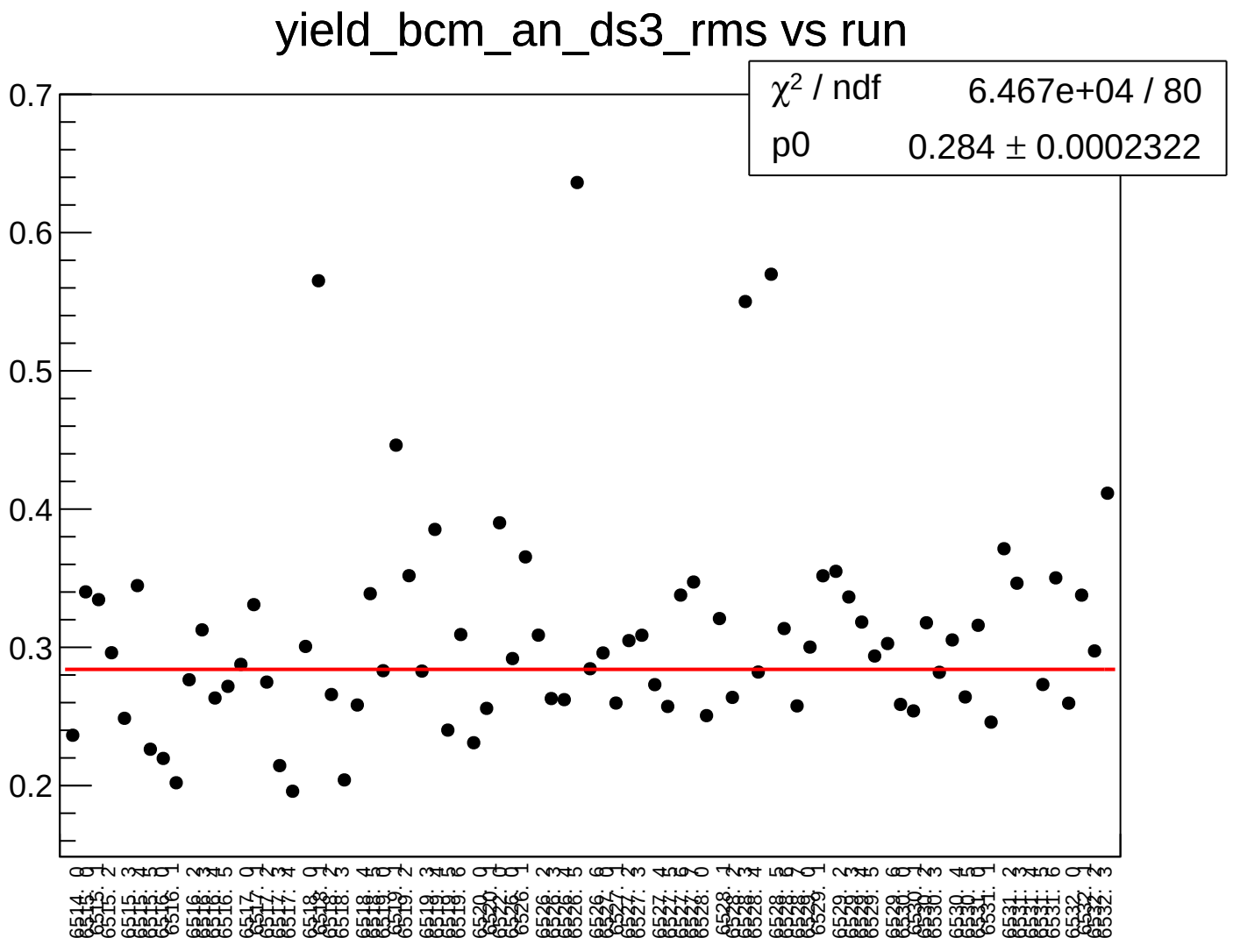

yield_bcm_an_ds_mean vs run
χ² / ndf 1.529e+06 / 80
p0 148.5 ± 0.0003265
149.2
149
148.8
148.6
148.4
148.2
148
147.8
147.6
pull
Entries 81
Mean 3.964
Std Dev 0
200
100
0
−100
−200
−300

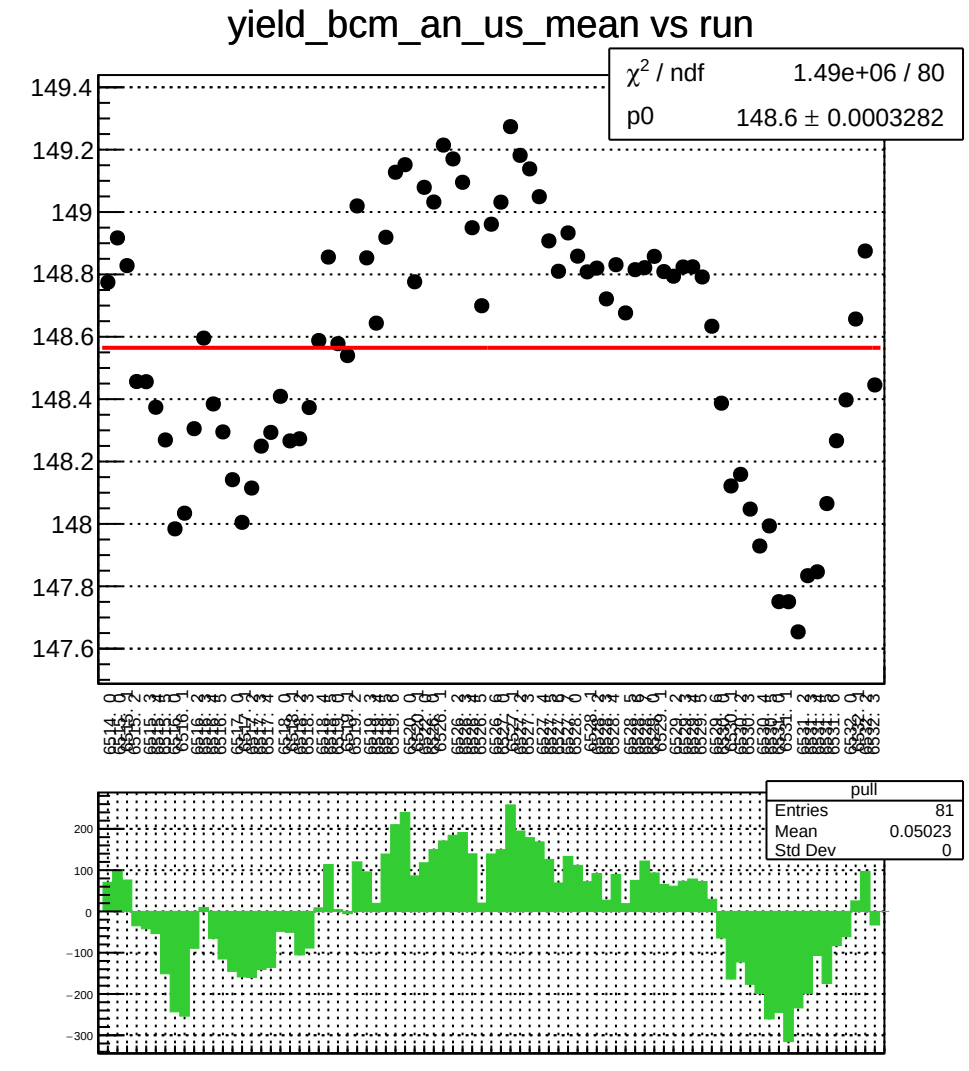

pull1D
Entries 81
Mean 2.574
Std Dev 4.007
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

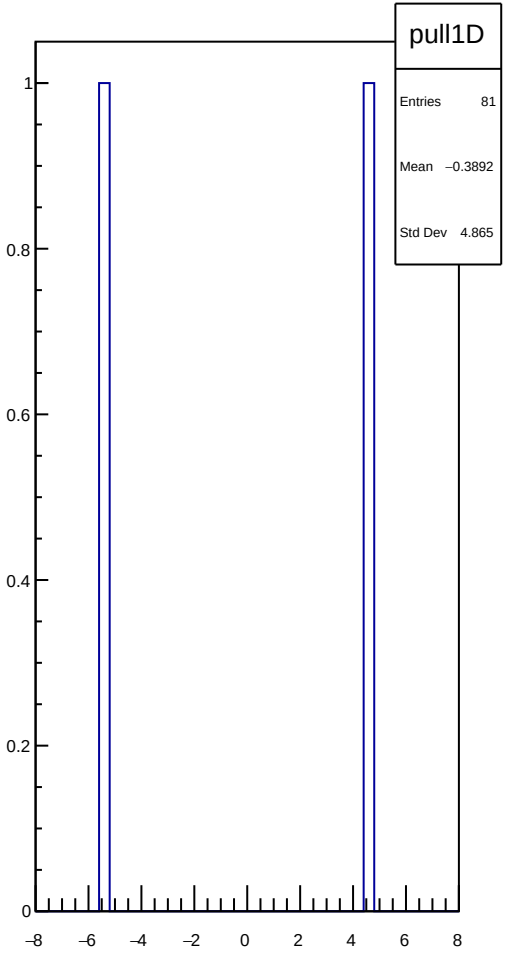

yield_bcm_an_ds_rms vs run
χ² / ndf 6.429e+04 / 80
p0 0.2824 ± 0.0002309
0.6
0.5
0.4
0.3
0.2

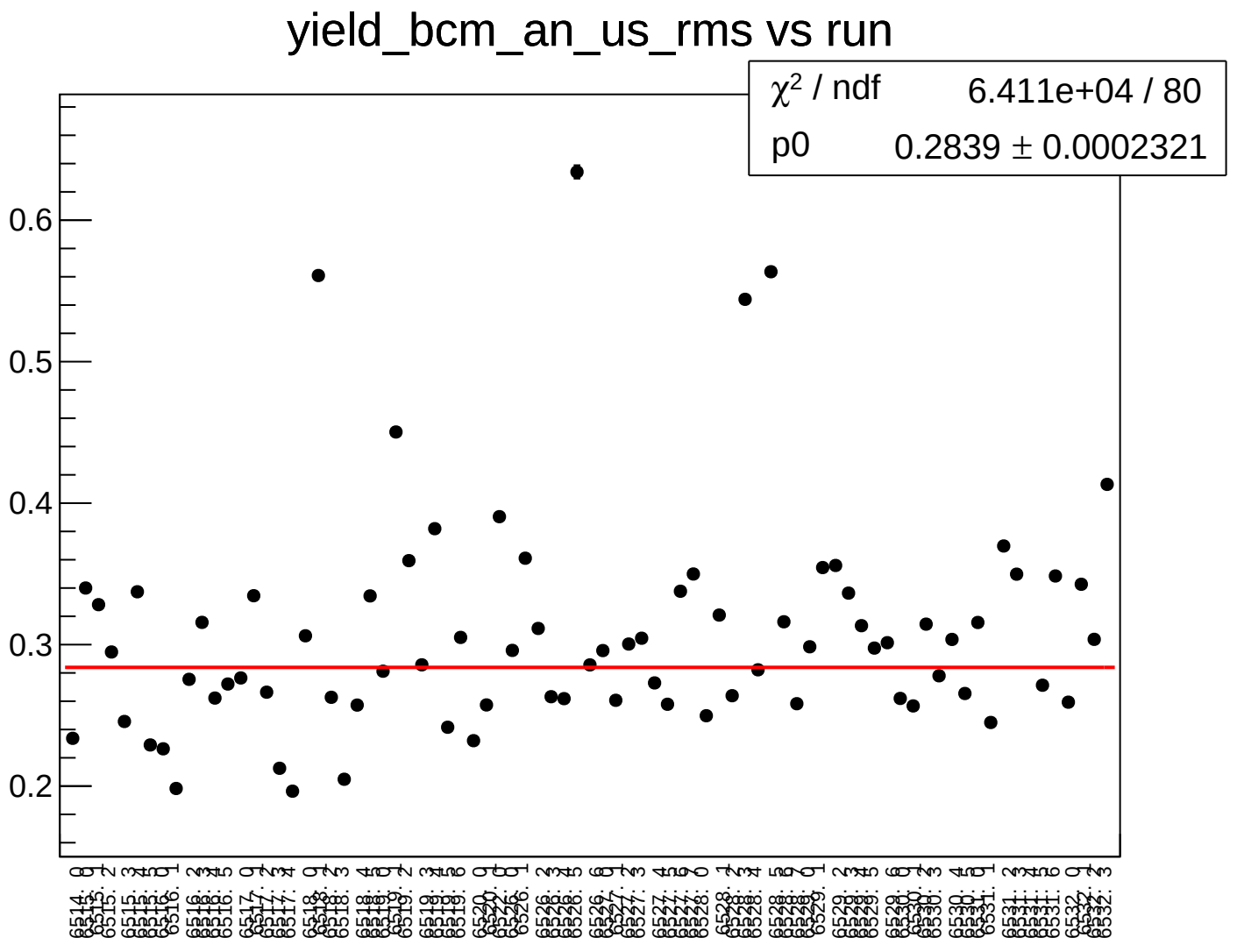

yield_bcm_an_ds3_mean vs run
χ² / ndf 1.541e+06 / 80
p0 148.7 ± 0.0003284
149.4
149.2
149
148.8
148.6
148.4
148.2
148
147.8
pull
Entries 81
Mean 15.74
Std Dev 0
200
100
0
−100
−200
−300

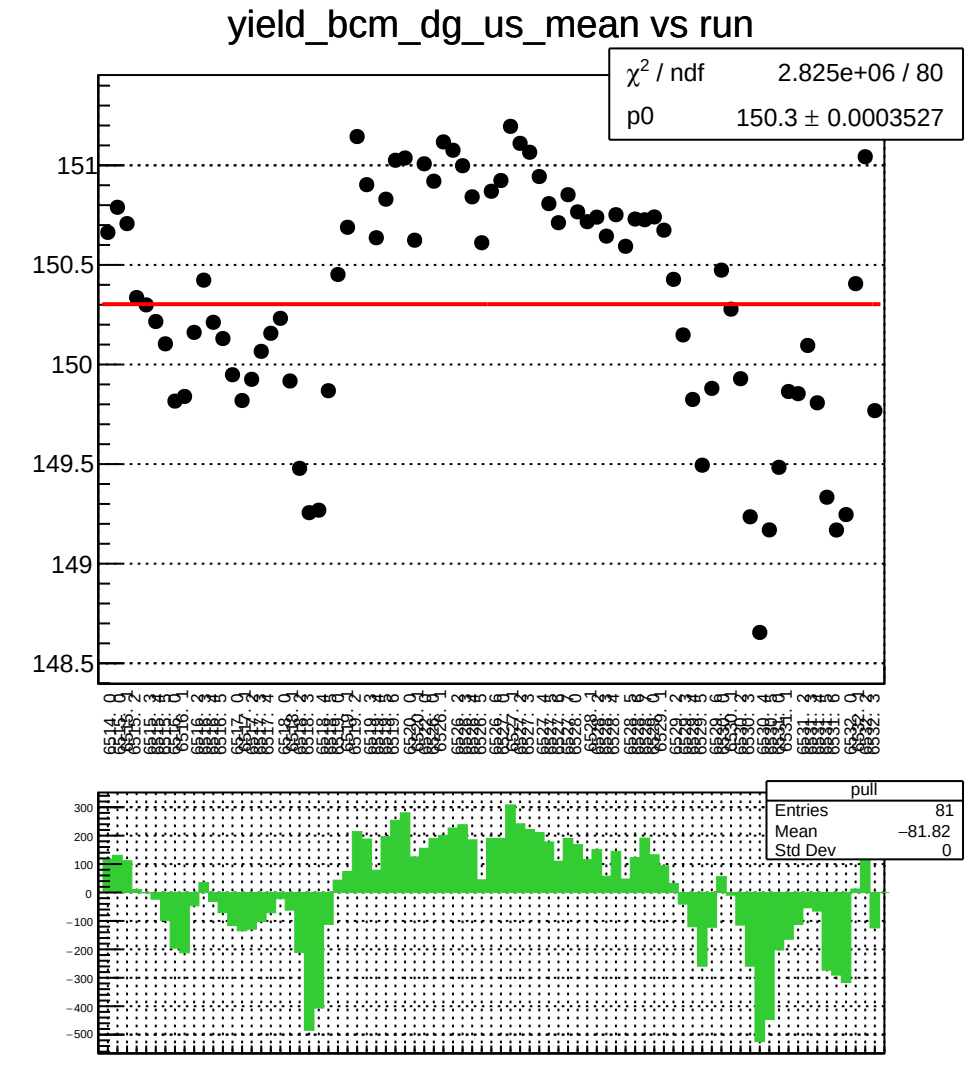

pull1D
Entries 81
Mean −1.603
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

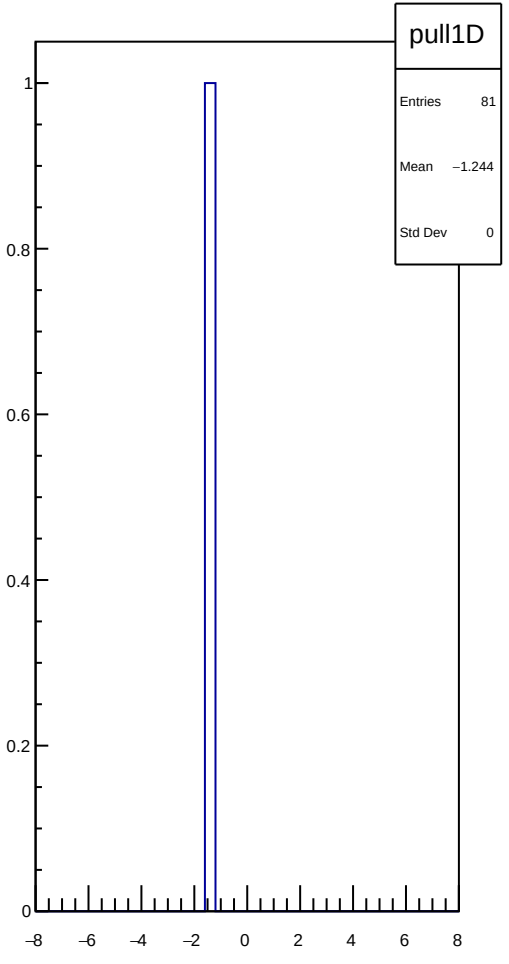

yield_bcm_an_ds3_rms vs run
χ² / ndf 6.467e+04 / 80
p0 0.284 ± 0.0002322
0.7
0.6
0.5
0.4
0.3
0.2

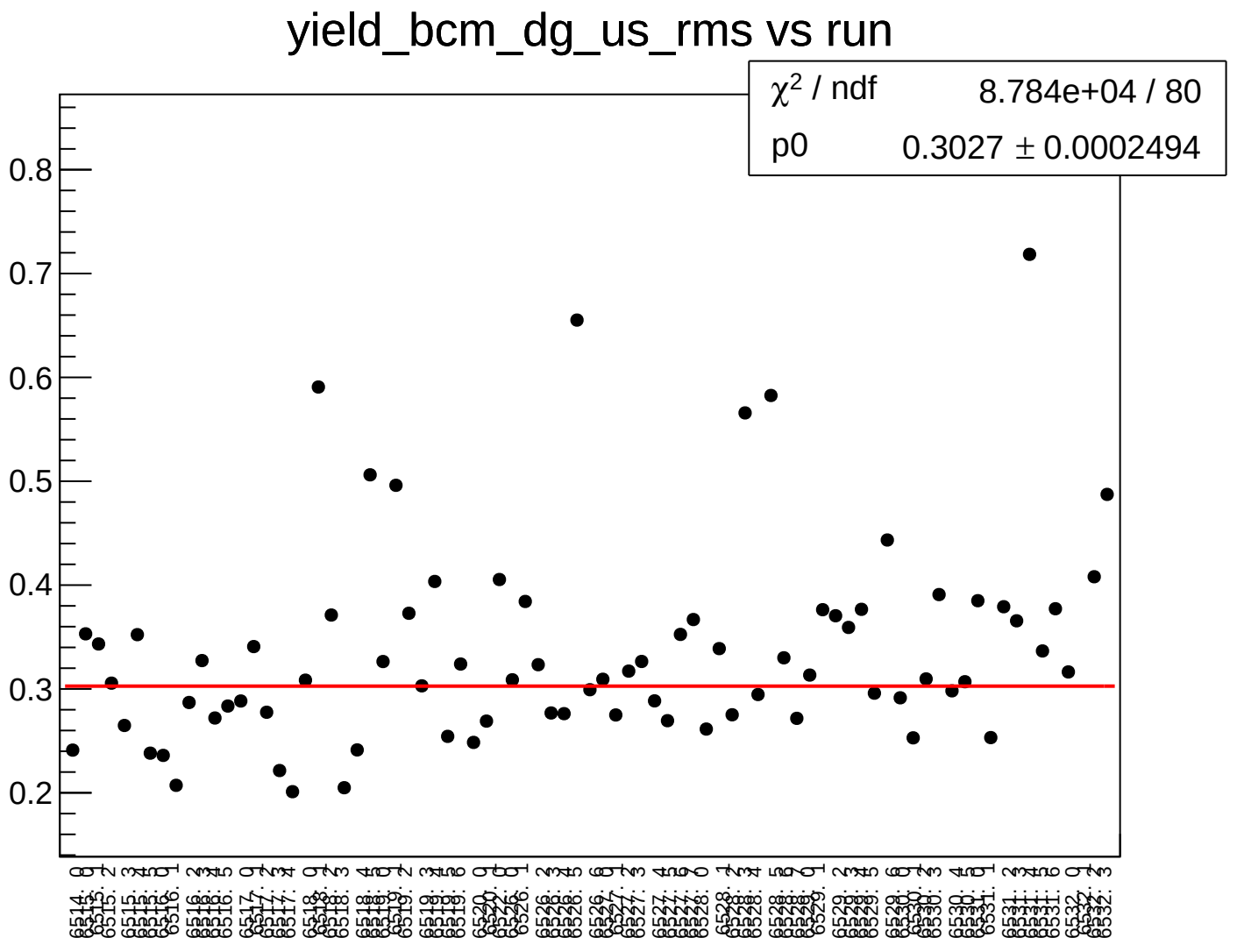

yield_bcm_an_us_mean vs run
χ² / ndf 1.49e+06 / 80
p0 148.6 ± 0.0003282
149.4
149.2
149
148.8
148.6
148.4
148.2
148
147.8
147.6
pull
Entries 81
Mean 0.05023
Std Dev 0
200
100
0
−100
−200
−300

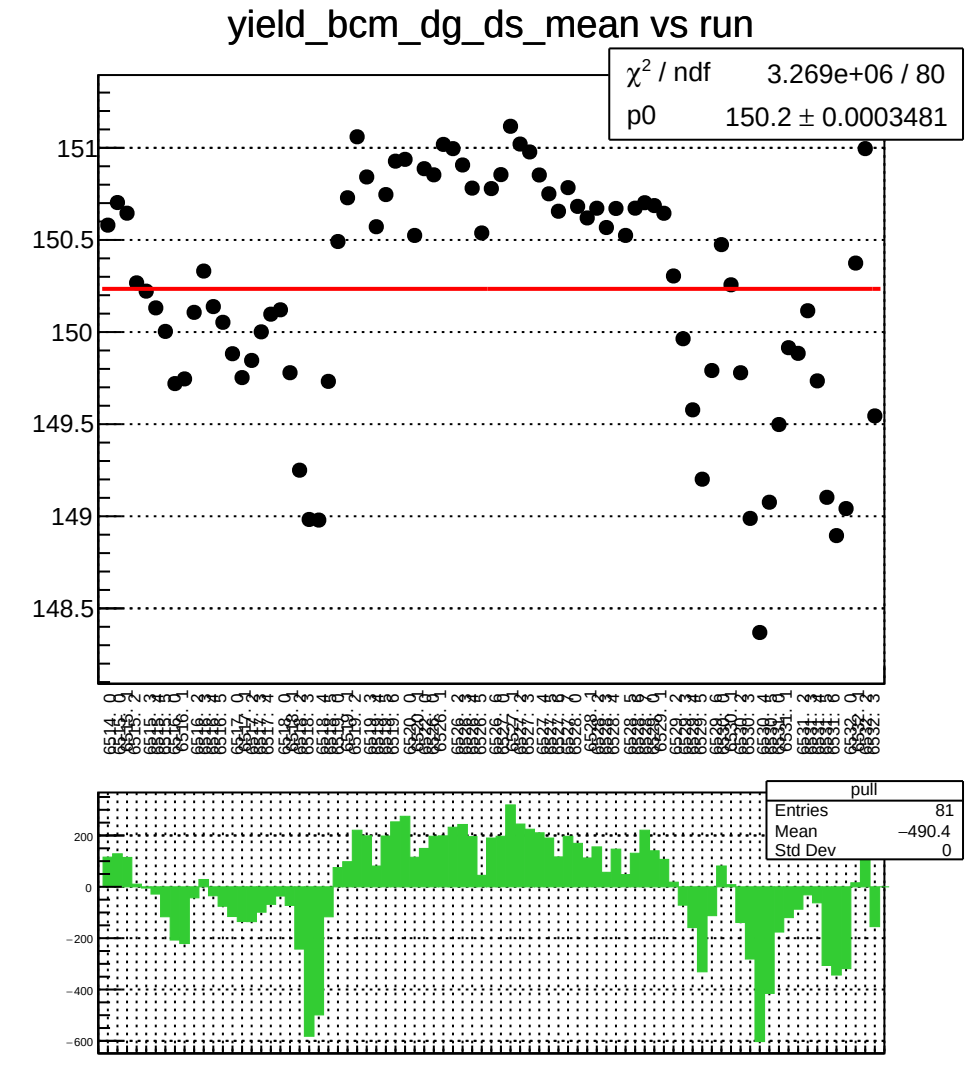

pull1D
Entries 81
Mean −0.3892
Std Dev 4.865
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

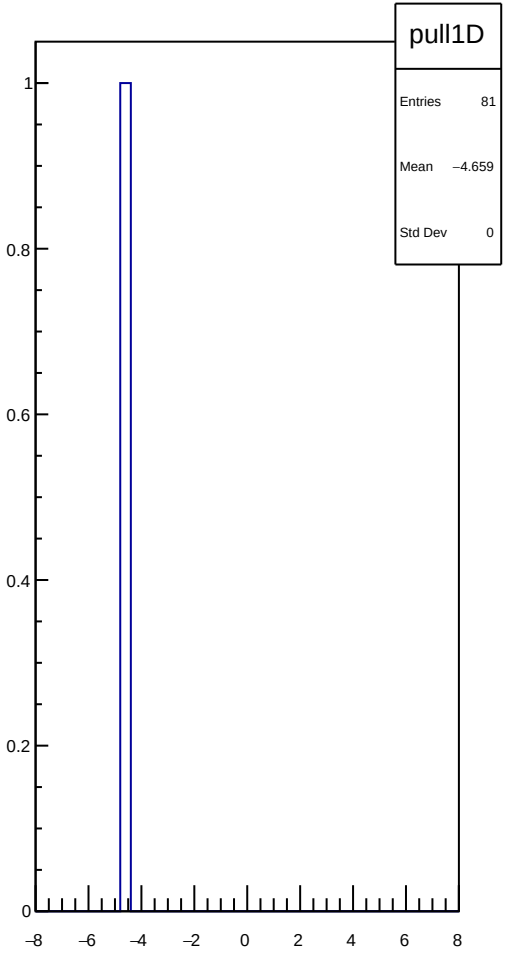

yield_bcm_an_us_rms vs run
χ² / ndf 6.411e+04 / 80
p0 0.2839 ± 0.0002321
0.6
0.5
0.4
0.3
0.2

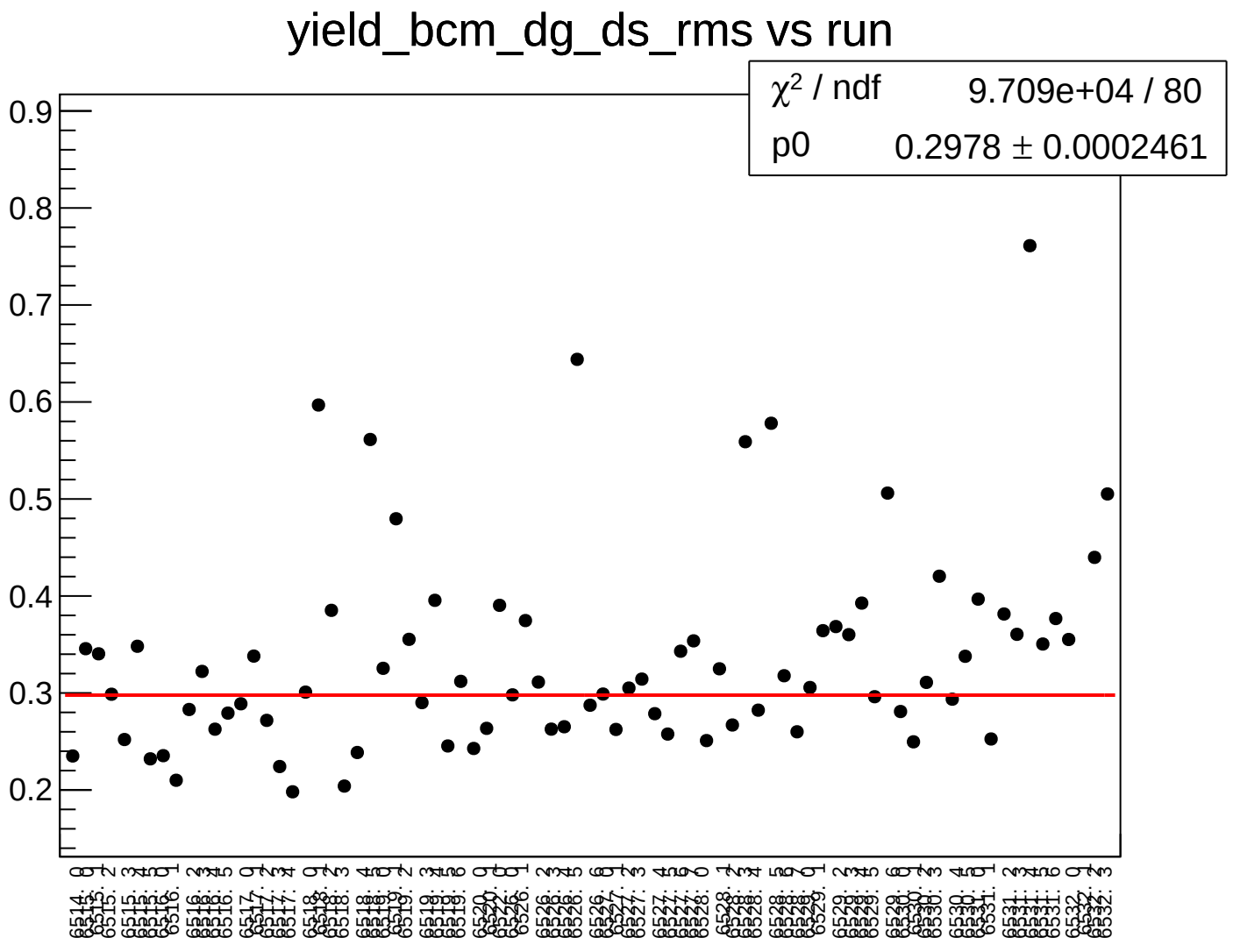

yield_bcm_dg_us_mean vs run
χ² / ndf 2.825e+06 / 80
p0 150.3 ± 0.0003527
151
150.5
150
149.5
149
148.5
pull
Entries 81
Mean −81.82
Std Dev 0
300
200
100
0
−100
−200
−300
−400
−500

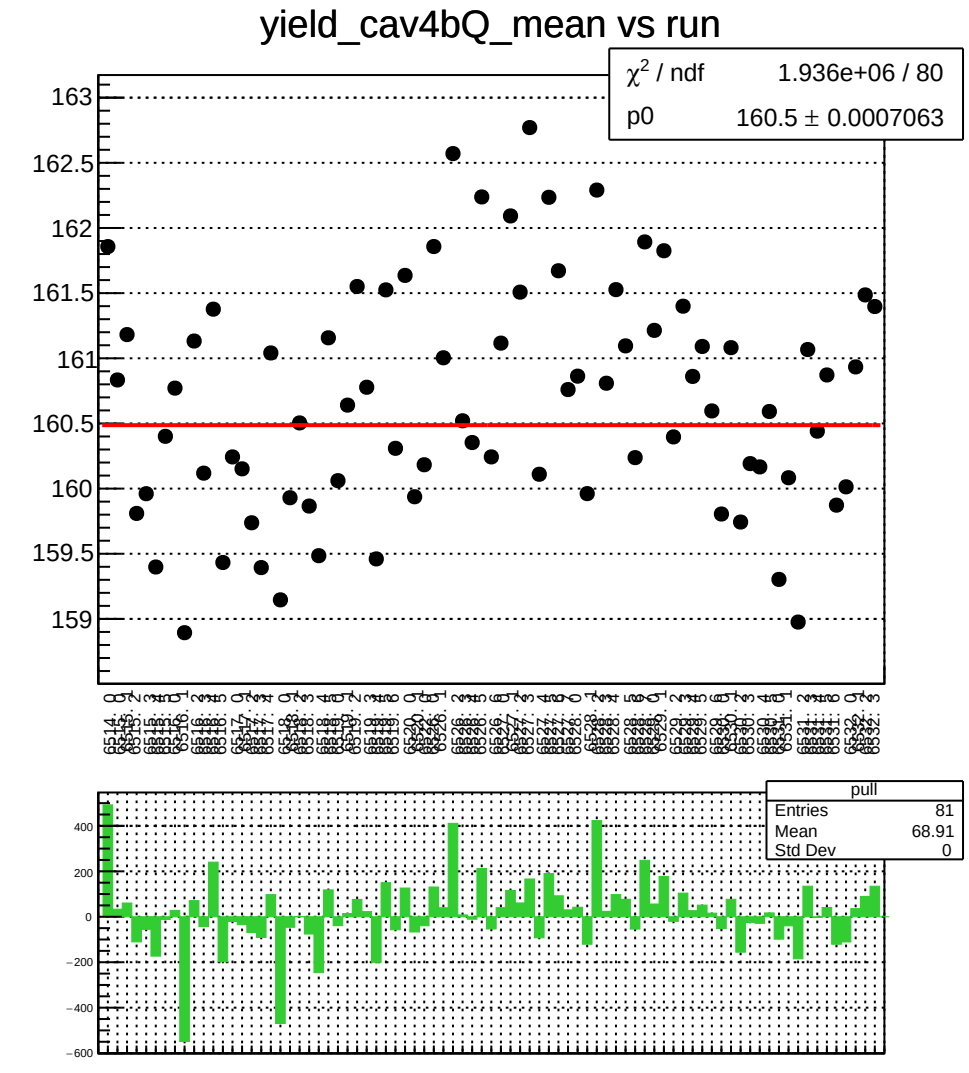

pull1D
Entries 81
Mean −1.244
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

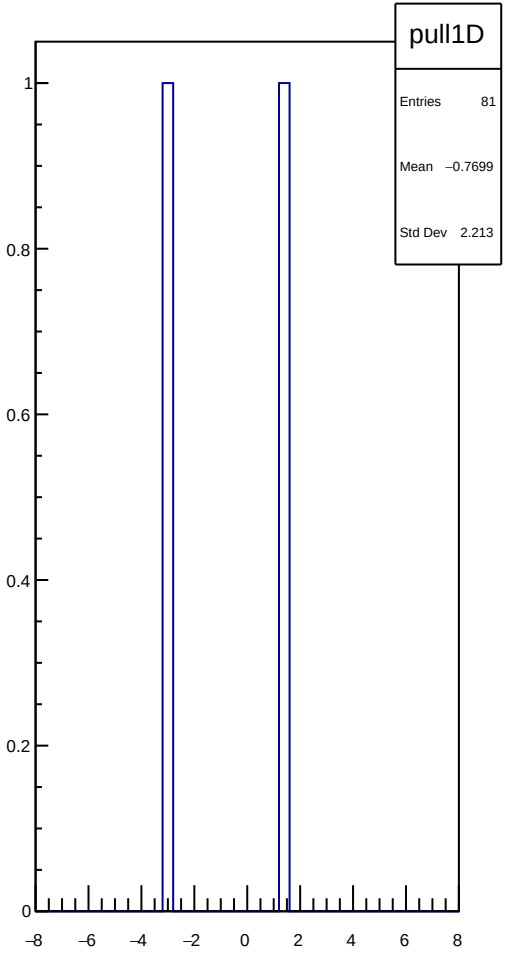

yield_bcm_dg_us_rms vs run
χ² / ndf 8.784e+04 / 80
p0 0.3027 ± 0.0002494
0.8
0.7
0.6
0.5
0.4
0.3
0.2

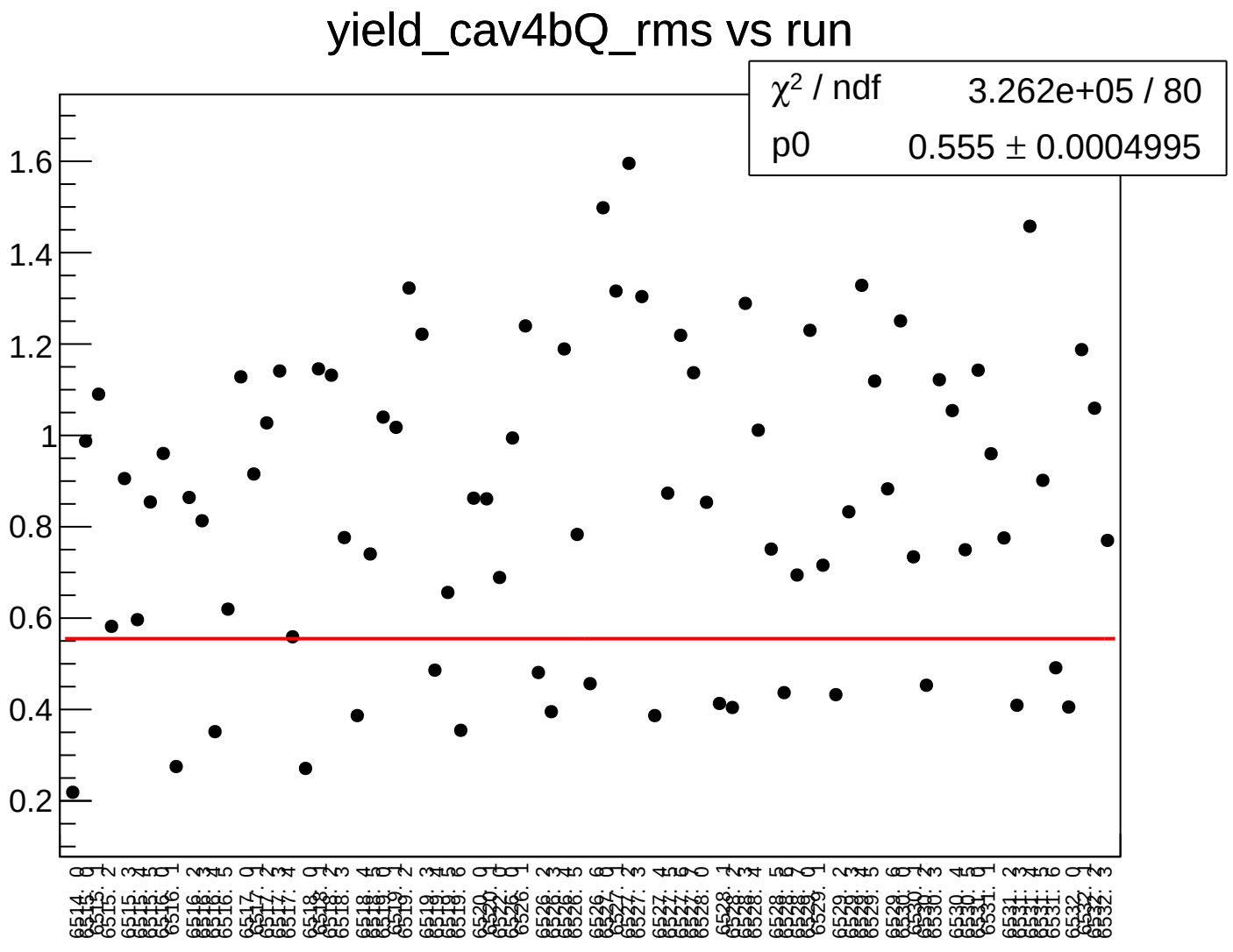

yield_bcm_dg_ds_mean vs run
χ² / ndf 3.269e+06 / 80
p0 150.2 ± 0.0003481
151
150.5
150
149.5
149
148.5
pull
Entries 81
Mean −490.4
Std Dev 0
200
0
−200
−400
−600

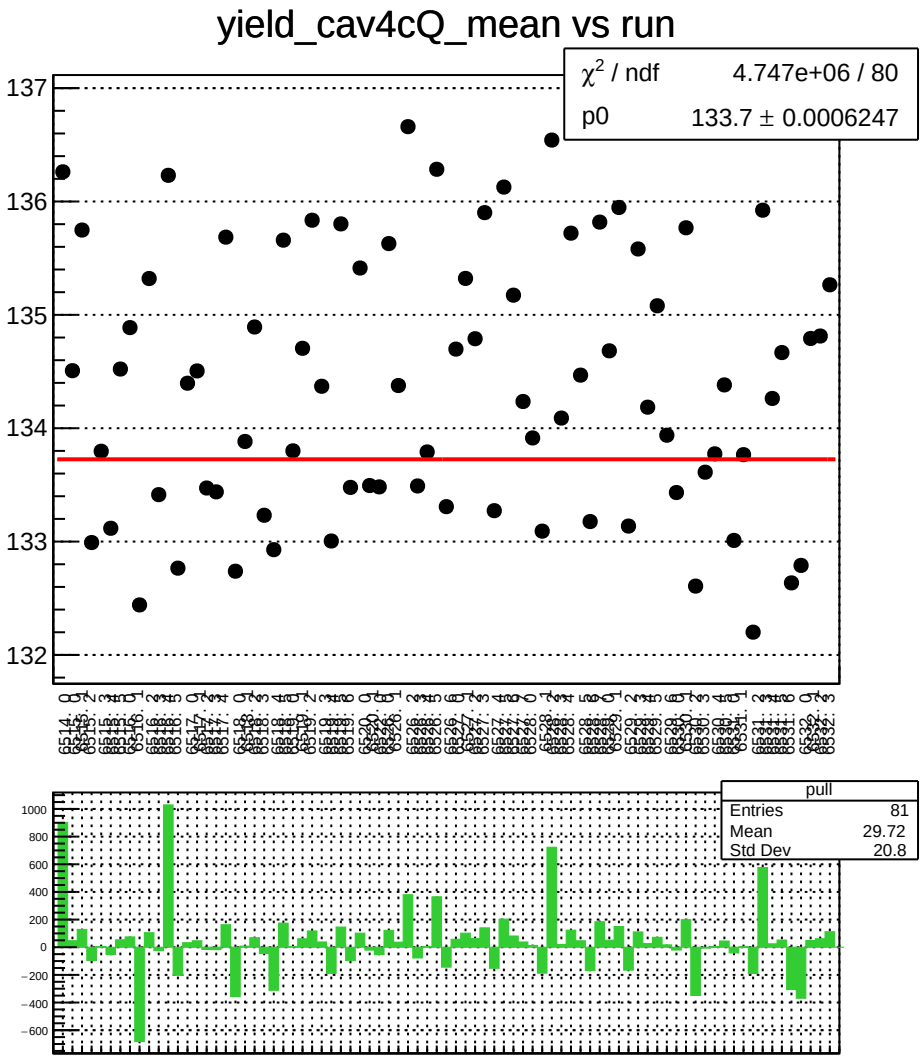

pull1D
Entries 81
Mean −4.659
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

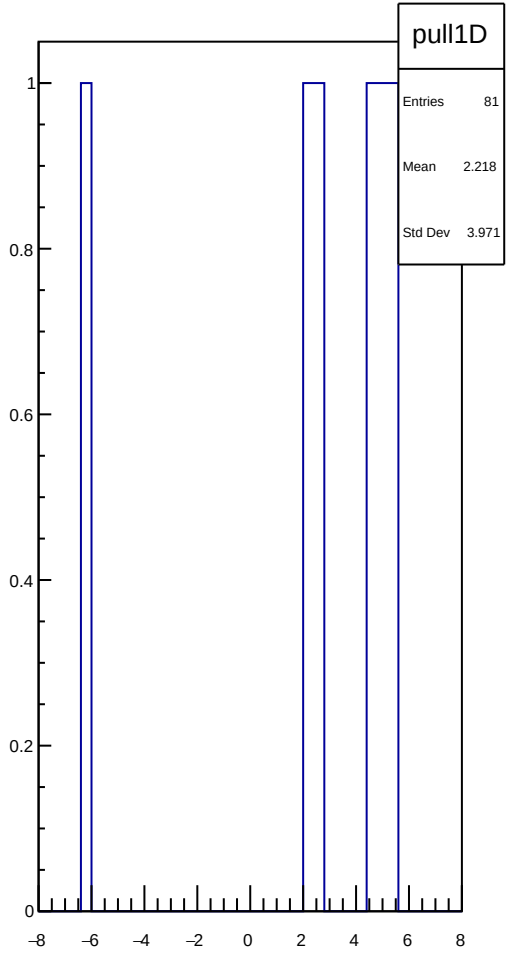

yield_bcm_dg_ds_rms vs run
χ² / ndf 9.709e+04 / 80
p0 0.2978 ± 0.0002461
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2

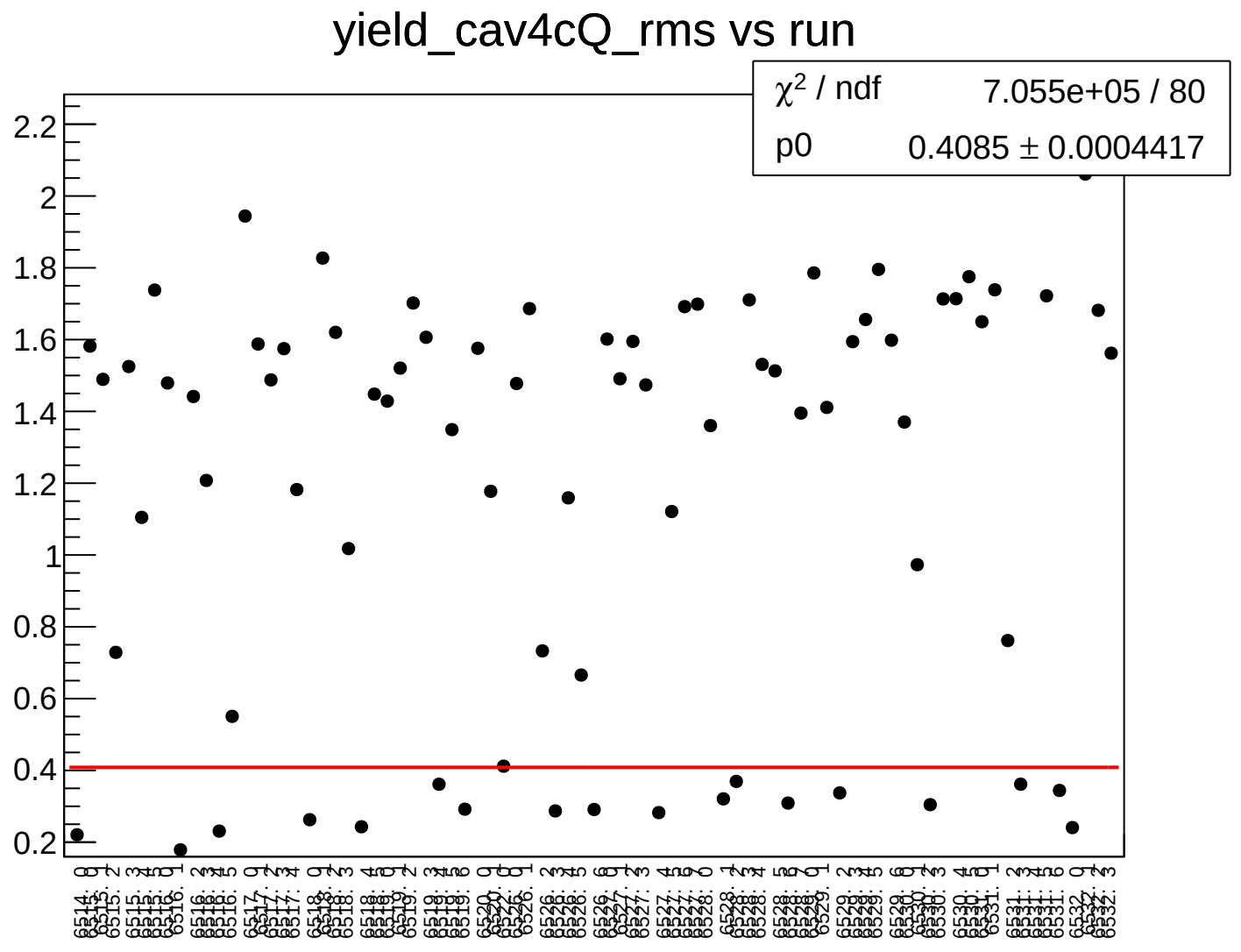

yield_cav4bQ_mean vs run
χ² / ndf 1.936e+06 / 80
p0 160.5 ± 0.0007063
163
162.5
162
161.5
161
160.5
160
159.5
159
pull
Entries 81
Mean 68.91
Std Dev 0
400
200
0
−200
−400
−600

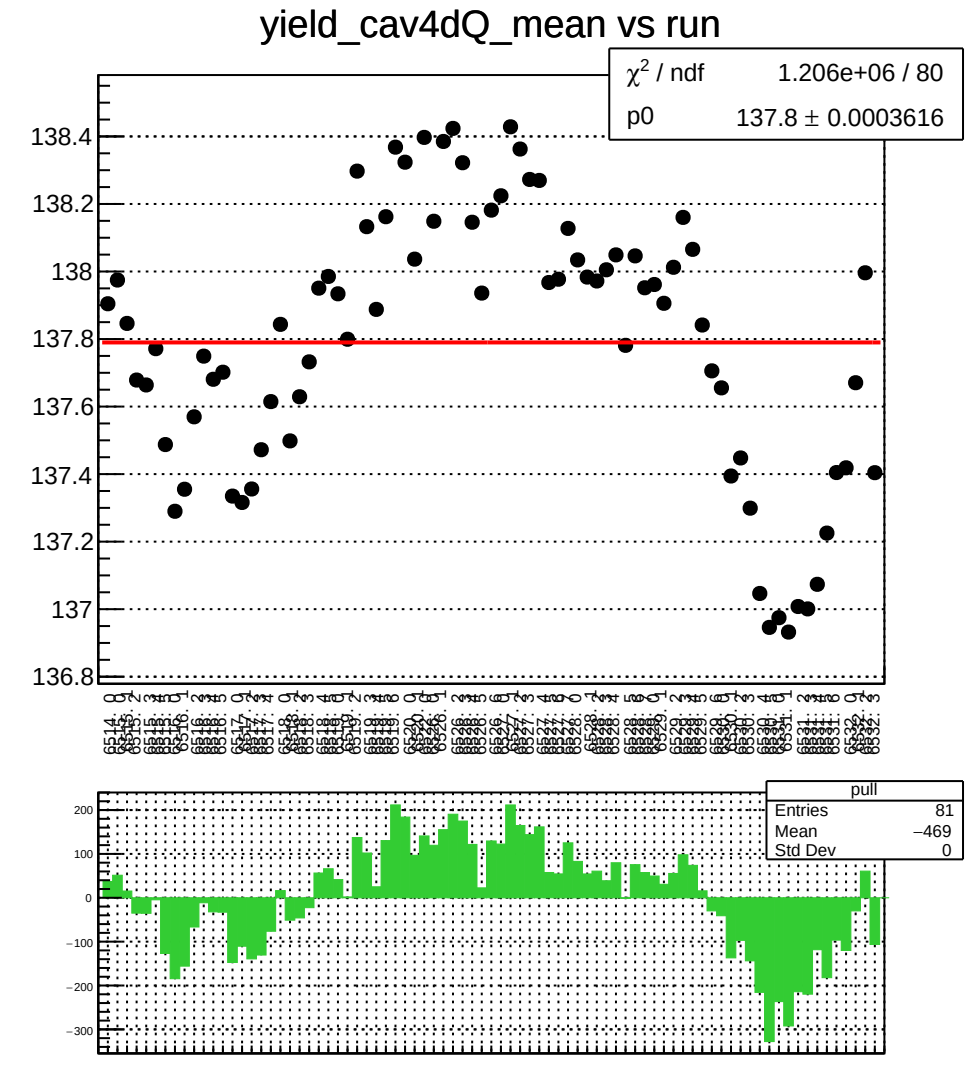

pull1D
Entries 81
Mean −0.7699
Std Dev 2.213
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

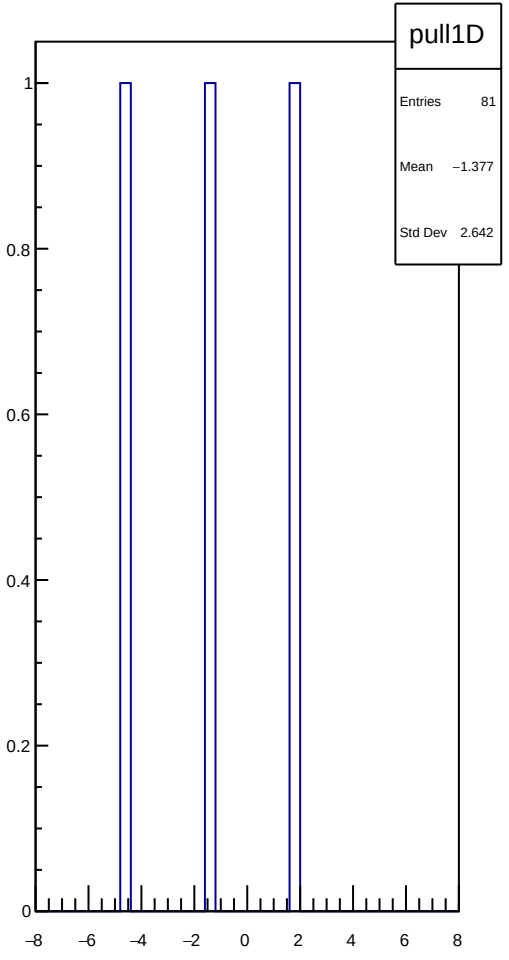

yield_cav4bQ_rms vs run
χ² / ndf 3.262e+05 / 80
p0 0.555 ± 0.0004995
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

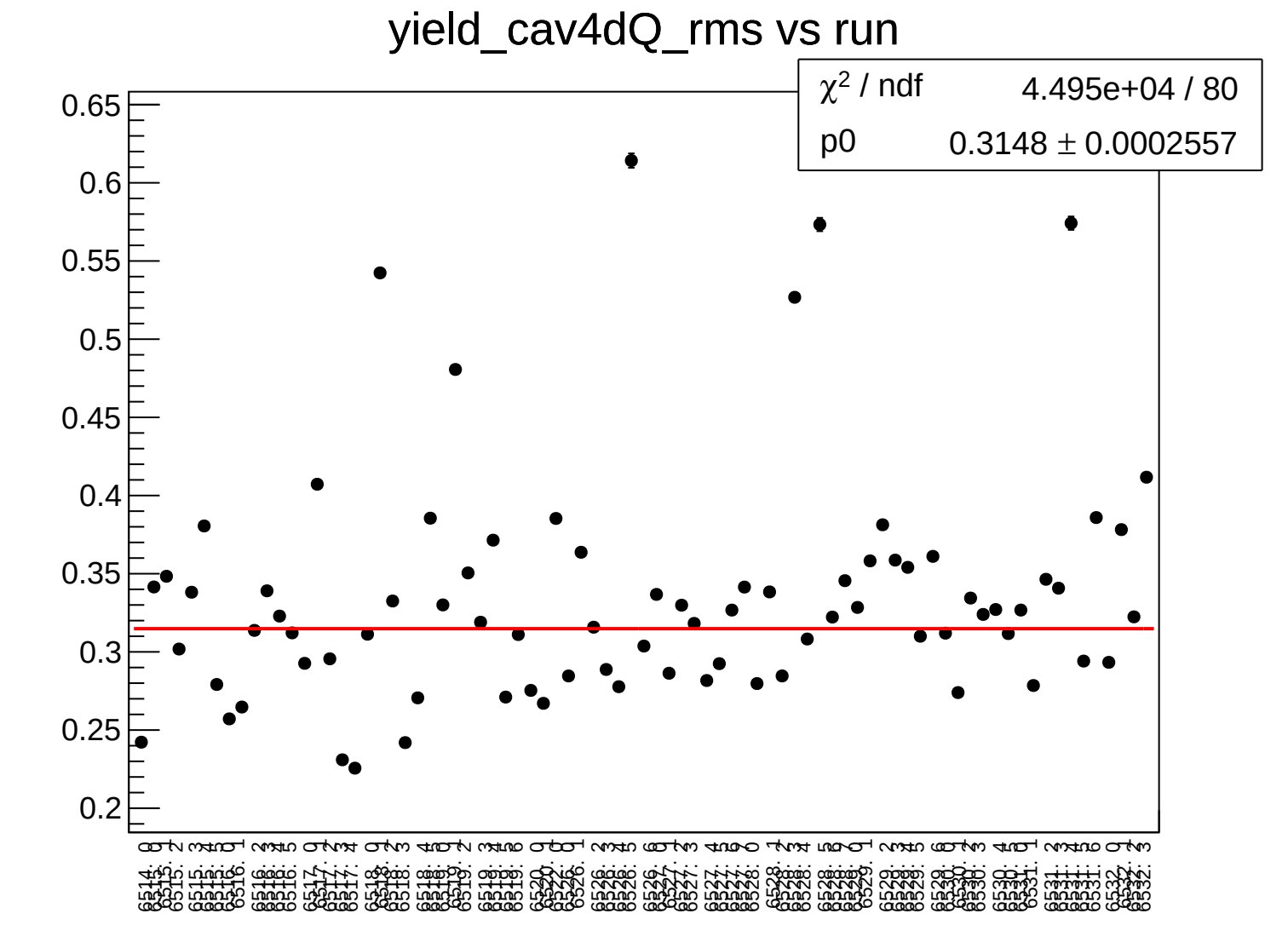

yield_cav4cQ_mean vs run
χ² / ndf 4.747e+06 / 80
p0 133.7 ± 0.0006247
137
136
135
134
133
132
pull
Entries 81
Mean 29.72
Std Dev 20.8
1000
800
600
400
200
0
−200
−400
−600

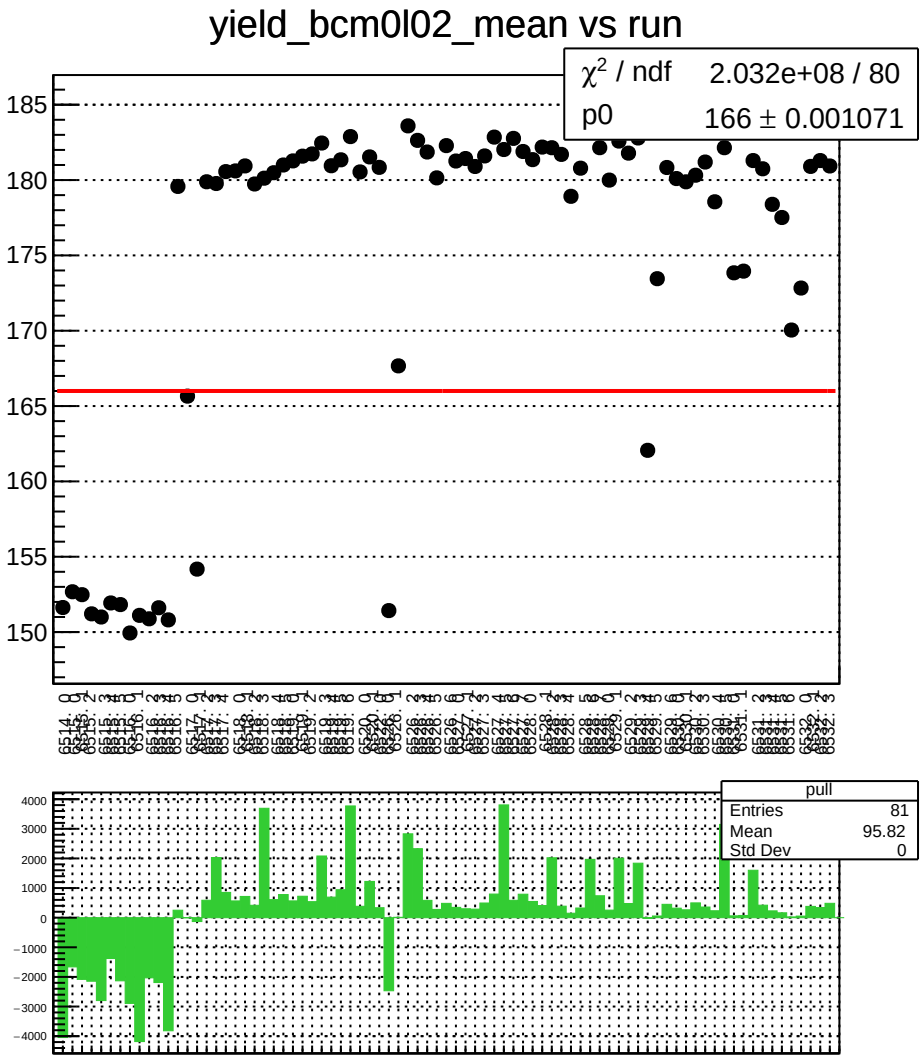

pull1D
Entries 81
Mean 2.218
Std Dev 3.971
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

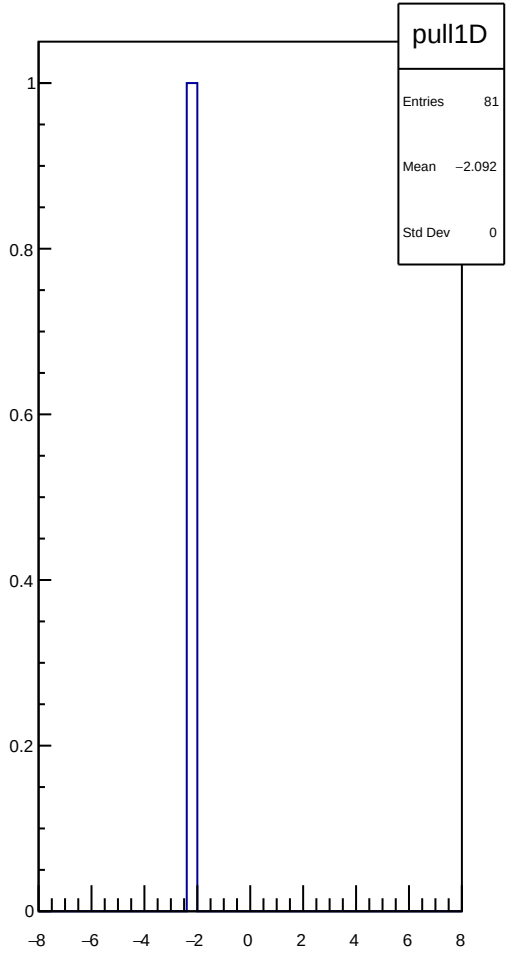

yield_cav4cQ_rms vs run
χ² / ndf 7.055e+05 / 80
p0 0.4085 ± 0.0004417
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

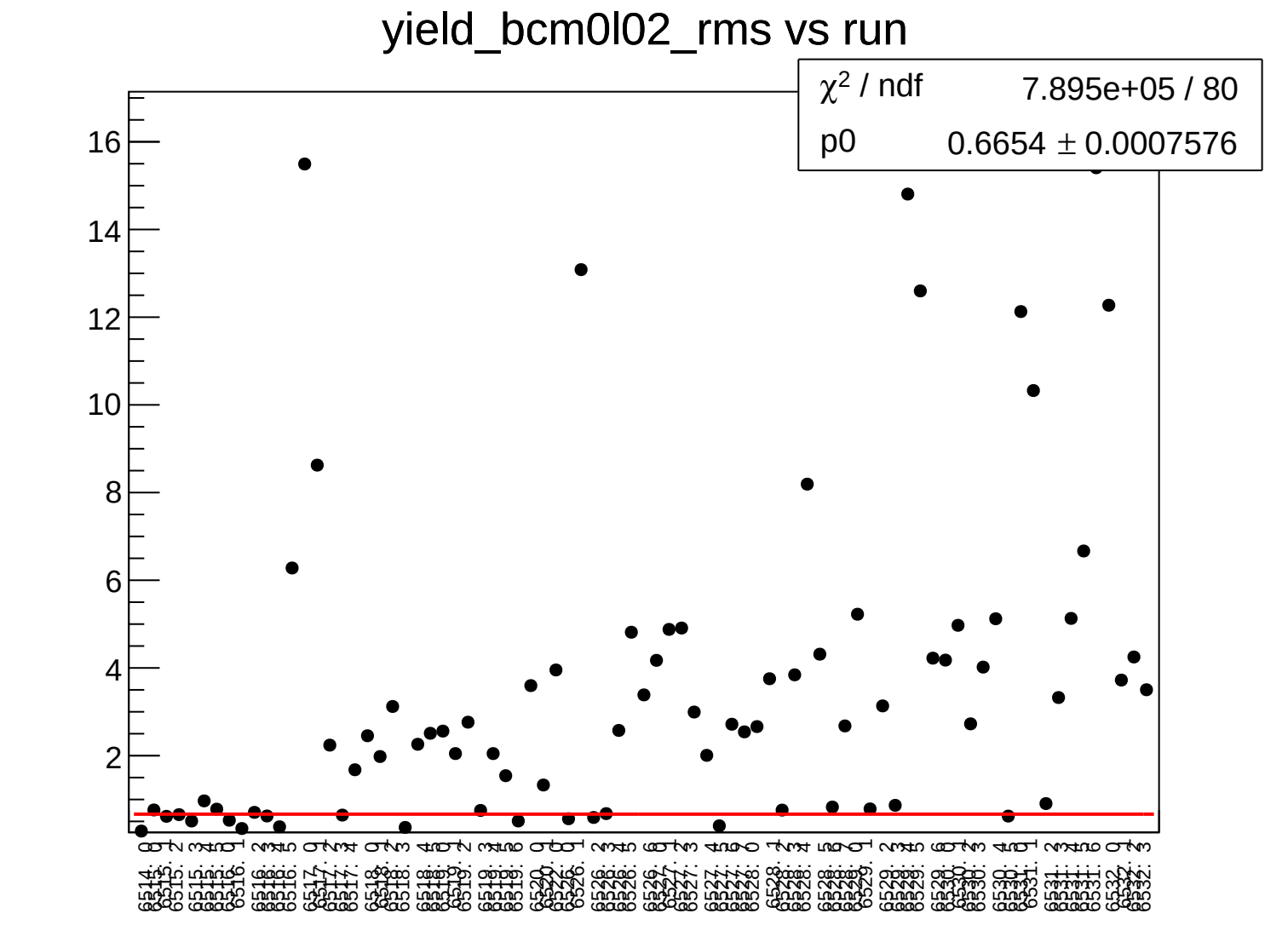

yield_cav4dQ_mean vs run
χ² / ndf 1.206e+06 / 80
p0 137.8 ± 0.0003616
138.4
138.2
138
137.8
137.6
137.4
137.2
137
136.8
pull
Entries 81
Mean −469
Std Dev 0
200
100
0
−100
−200
−300

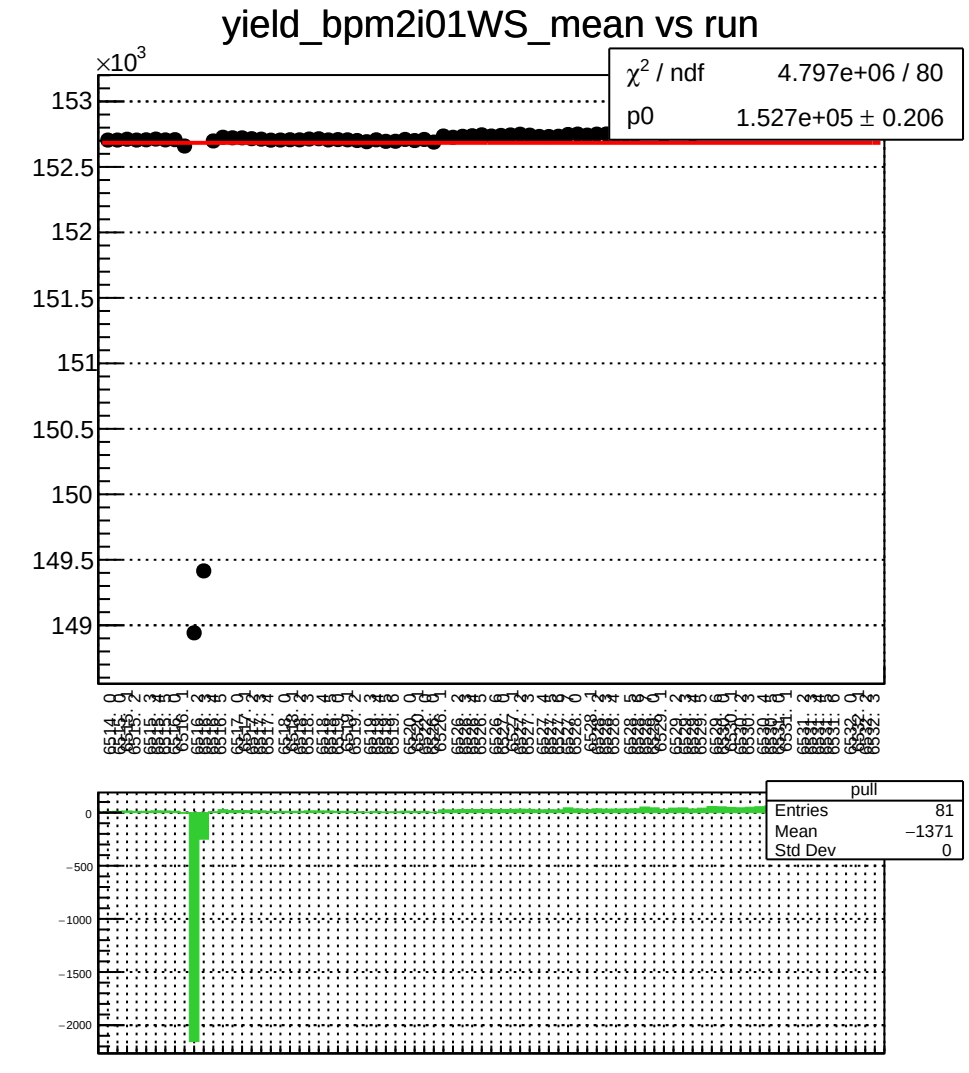

pull1D
Entries 81
Mean −1.377
Std Dev 2.642
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

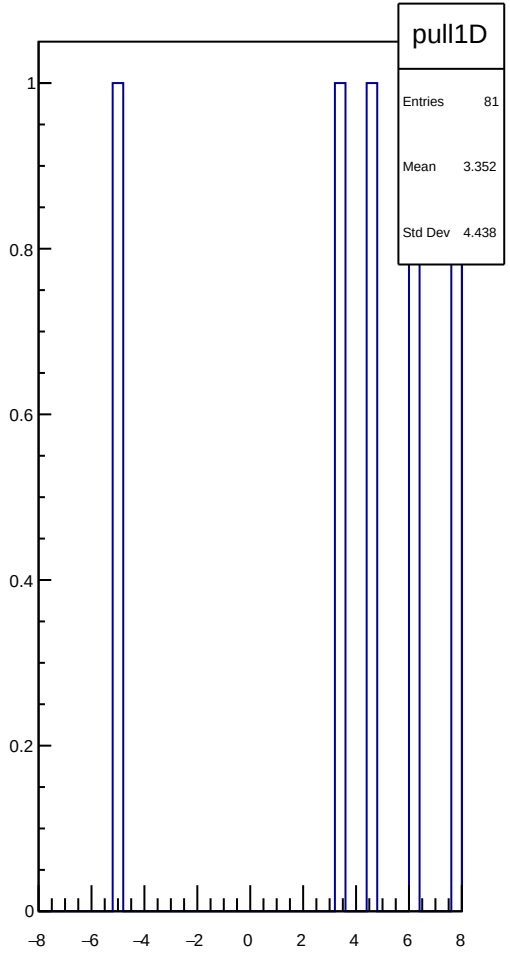

yield_cav4dQ_rms vs run
χ² / ndf 4.495e+04 / 80
p0 0.3148 ± 0.0002557
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2

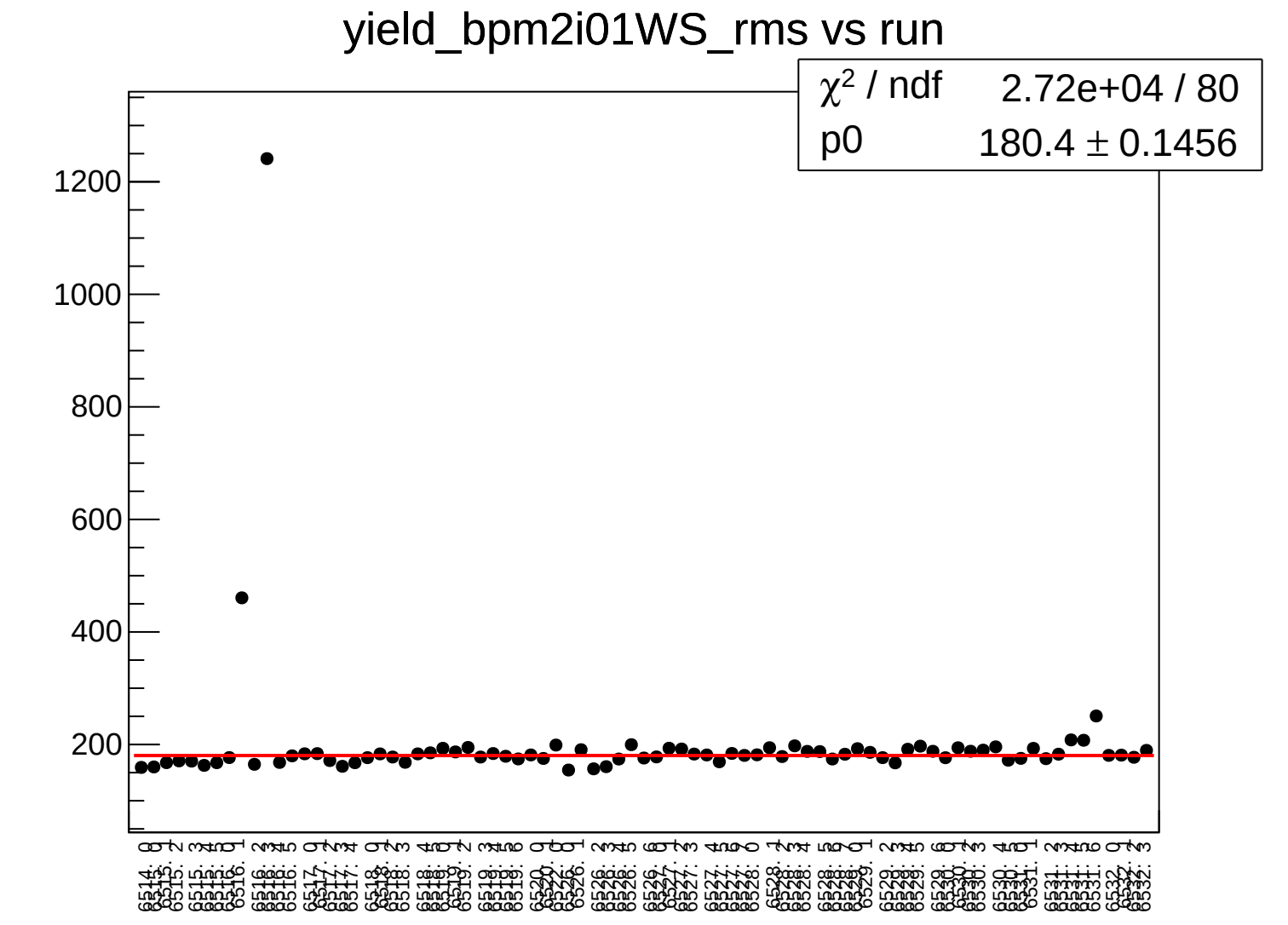

yield_bcm0l02_mean vs run
χ² / ndf 2.032e+08 / 80
p0 166 ± 0.001071
185
180
175
170
165
160
155
150
pull
Entries 81
Mean 95.82
Std Dev 0
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000

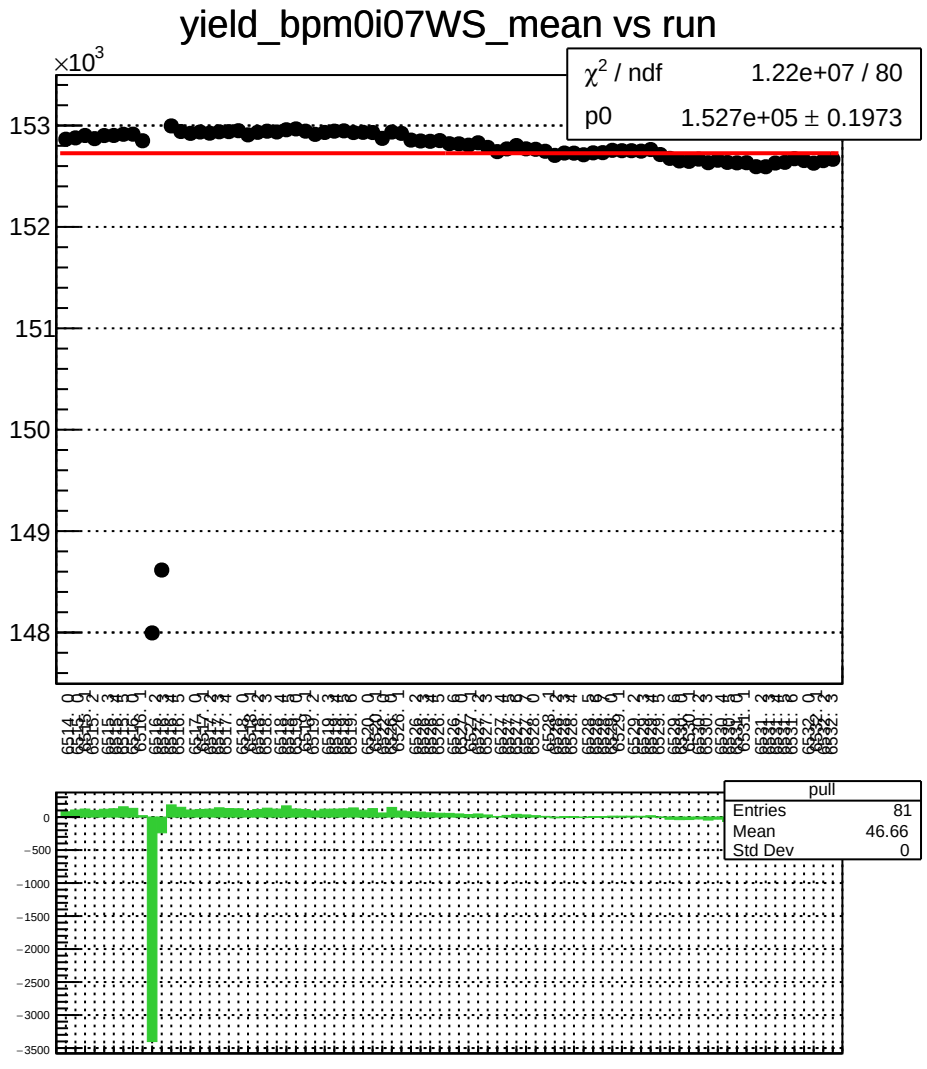

pull1D
Entries 81
Mean −2.092
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

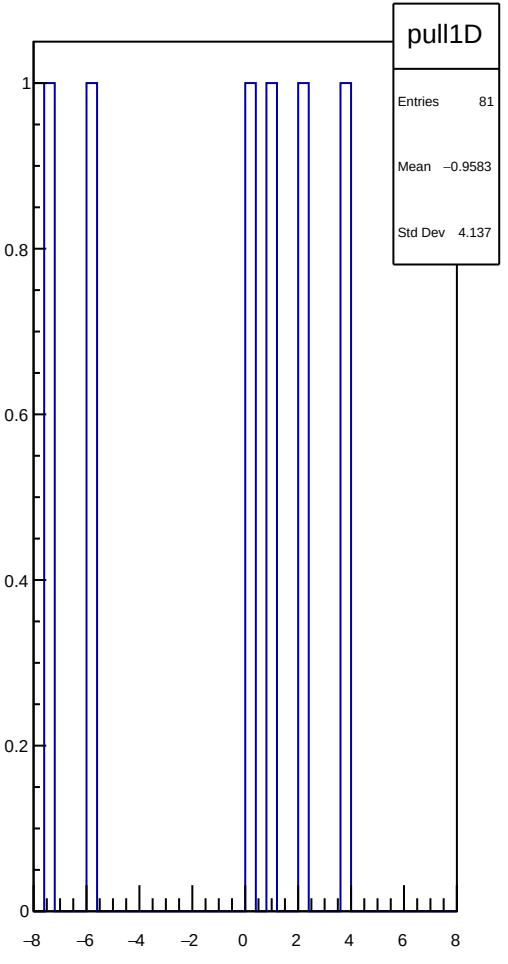

yield_bcm0l02_rms vs run
χ² / ndf 7.895e+05 / 80
p0 0.6654 ± 0.0007576
16
14
12
10
8
6
4
2

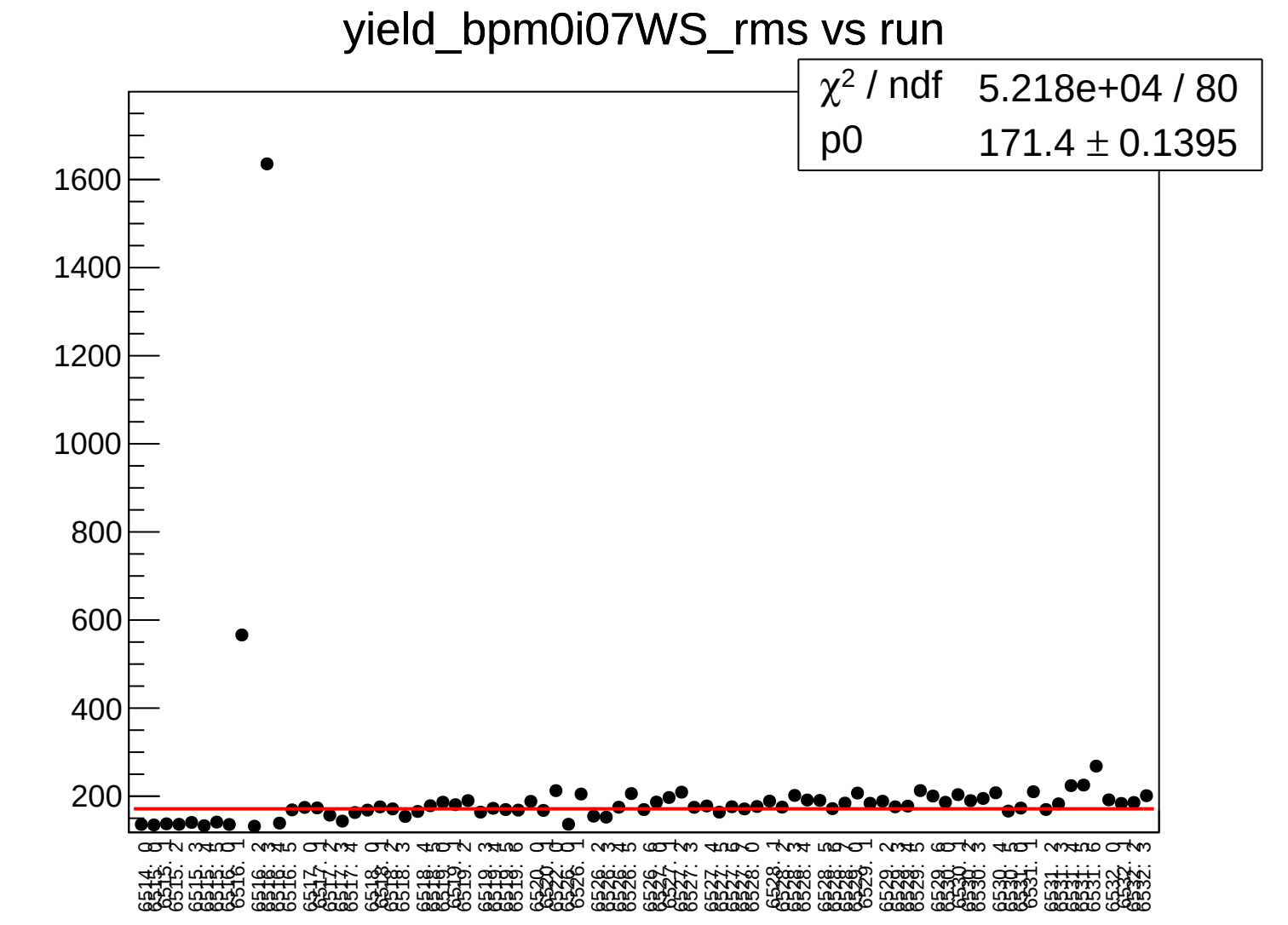

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 4.797e+06 / 80
p0 1.527e+05 ± 0.206
153
152.5
152
151.5
151
150.5
150
149.5
149
pull
Entries 81
Mean −1371
Std Dev 0
0
−500
−1000
−1500
−2000

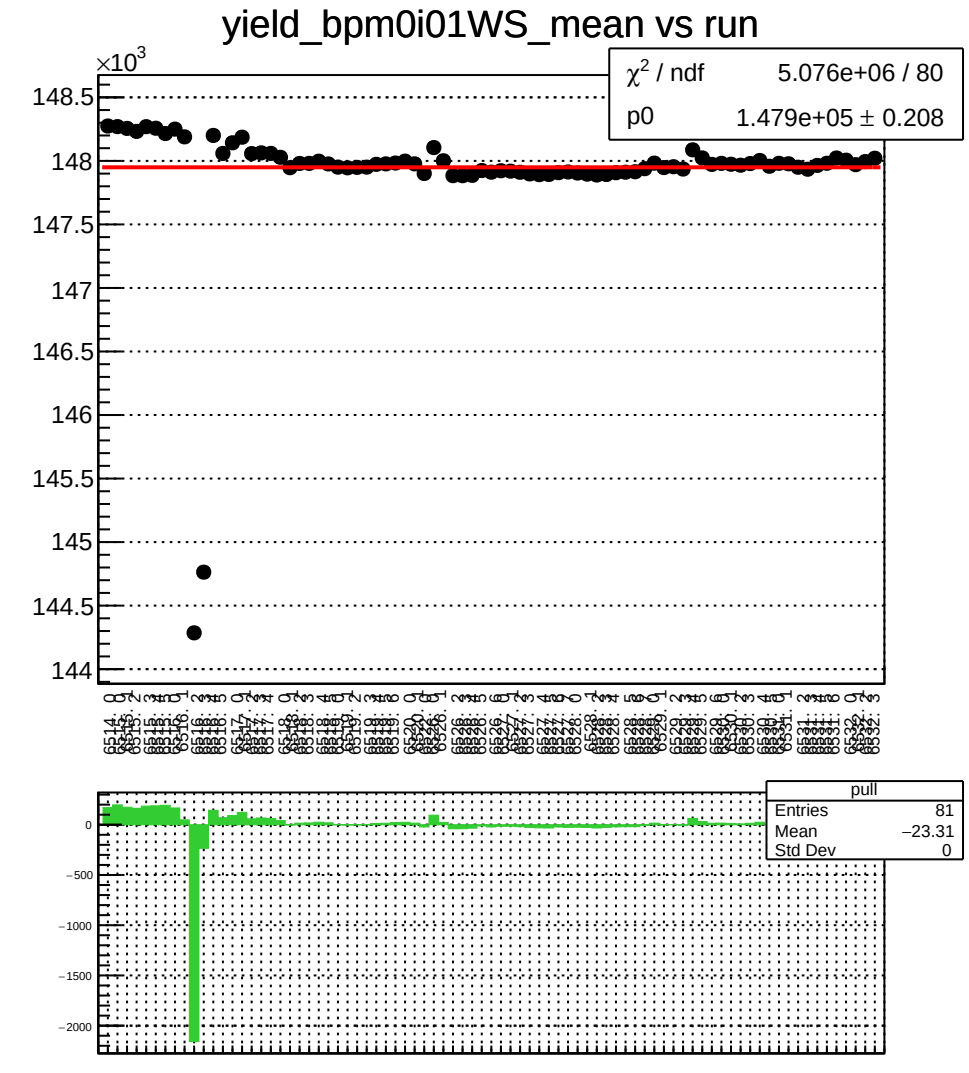

pull1D
Entries 81
Mean 3.352
Std Dev 4.438
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

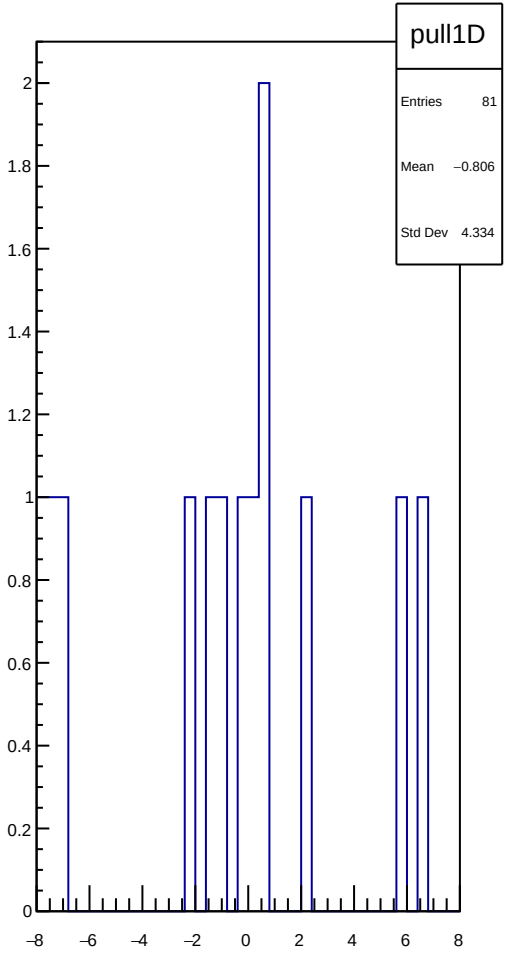

yield_bpm2i01WS_rms vs run
χ² / ndf 2.72e+04 / 80
p0 180.4 ± 0.1456
1200
1000
800
600
400
200

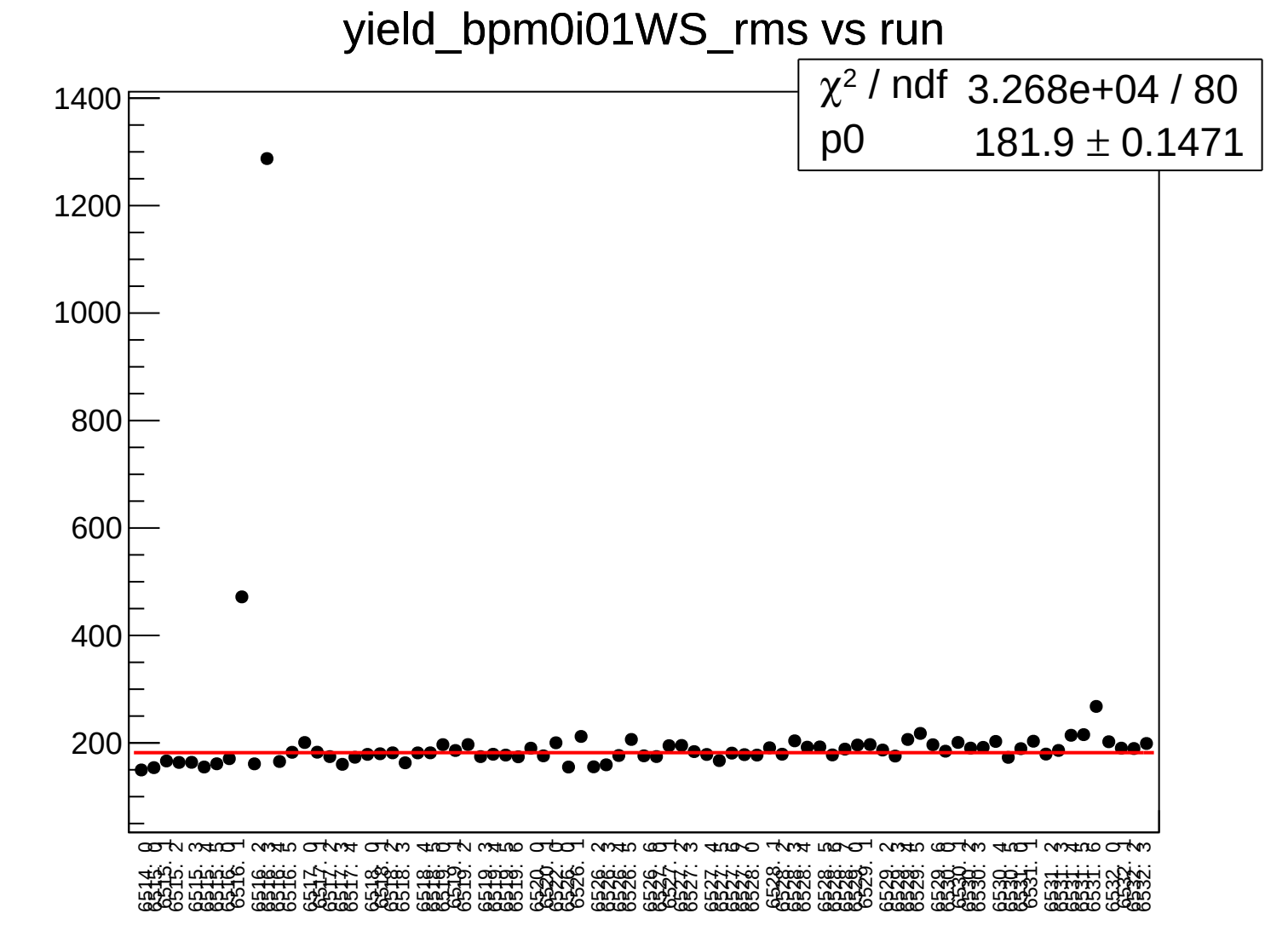

yield_bpm0i07WS_mean vs run
×10^3
χ^2 / ndf 1.22e+07 / 80
p0 1.527e+05 ± 0.1973
153
152
151
150
149
148
pull
Entries 81
Mean 46.66
Std Dev 0
0
−500
−1000
−1500
−2000
−2500
−3000
−3500

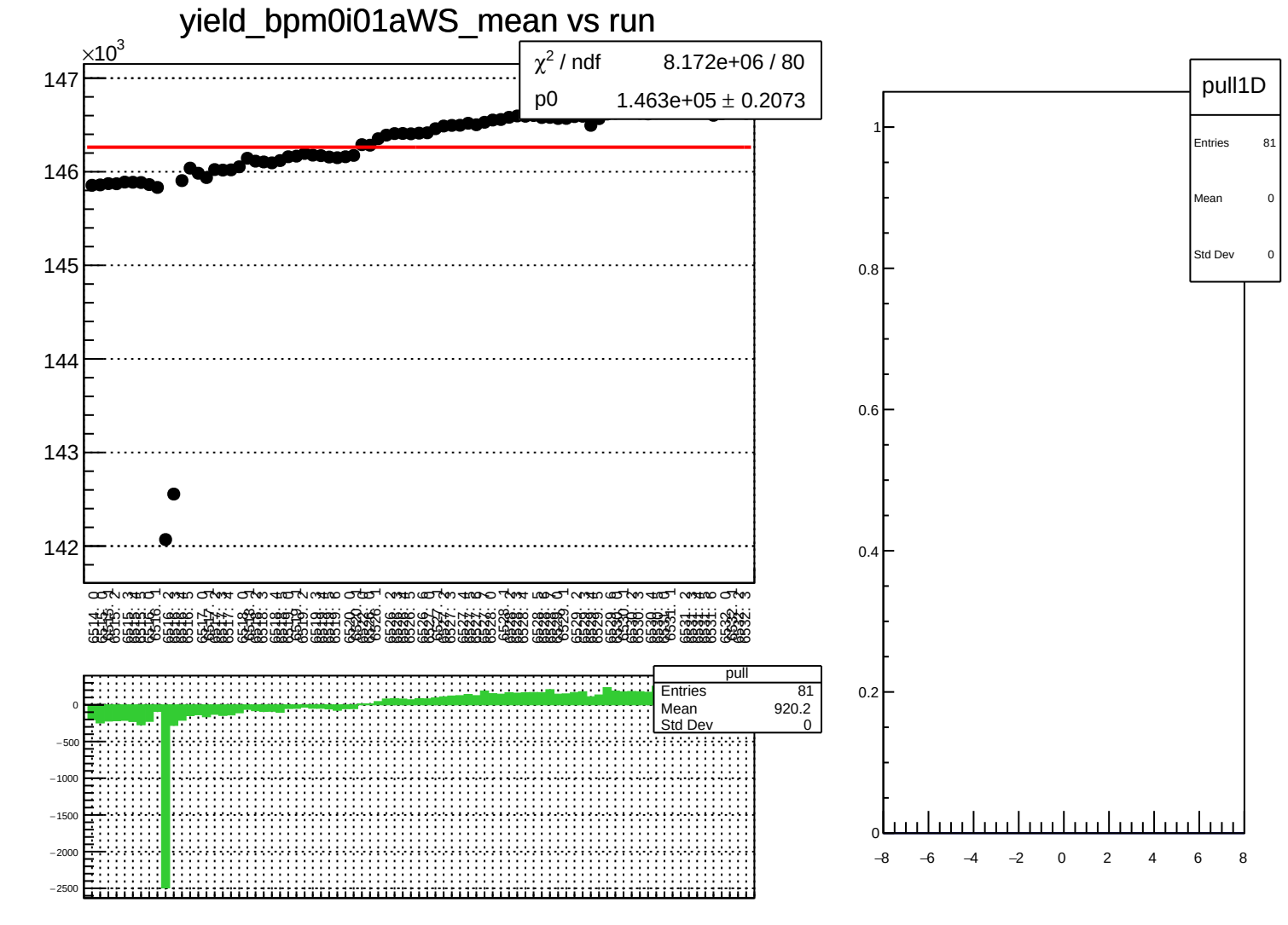

pull1D
Entries 81
Mean −0.9583
Std Dev 4.137
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

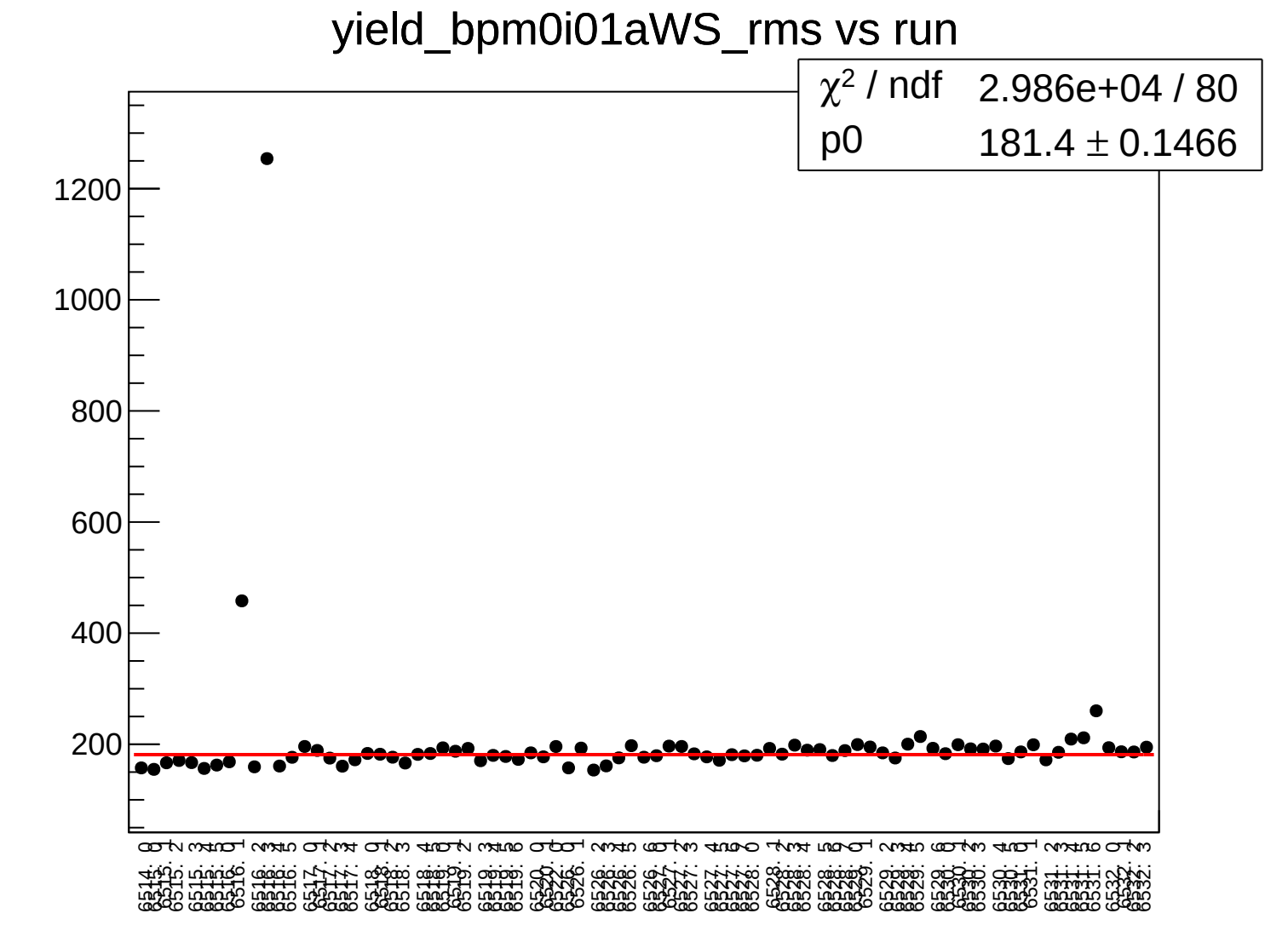

yield_bpm0i07WS_rms vs run
χ² / ndf 5.218e+04 / 80
p0 171.4 ± 0.1395
1600
1400
1200
1000
800
600
400
200

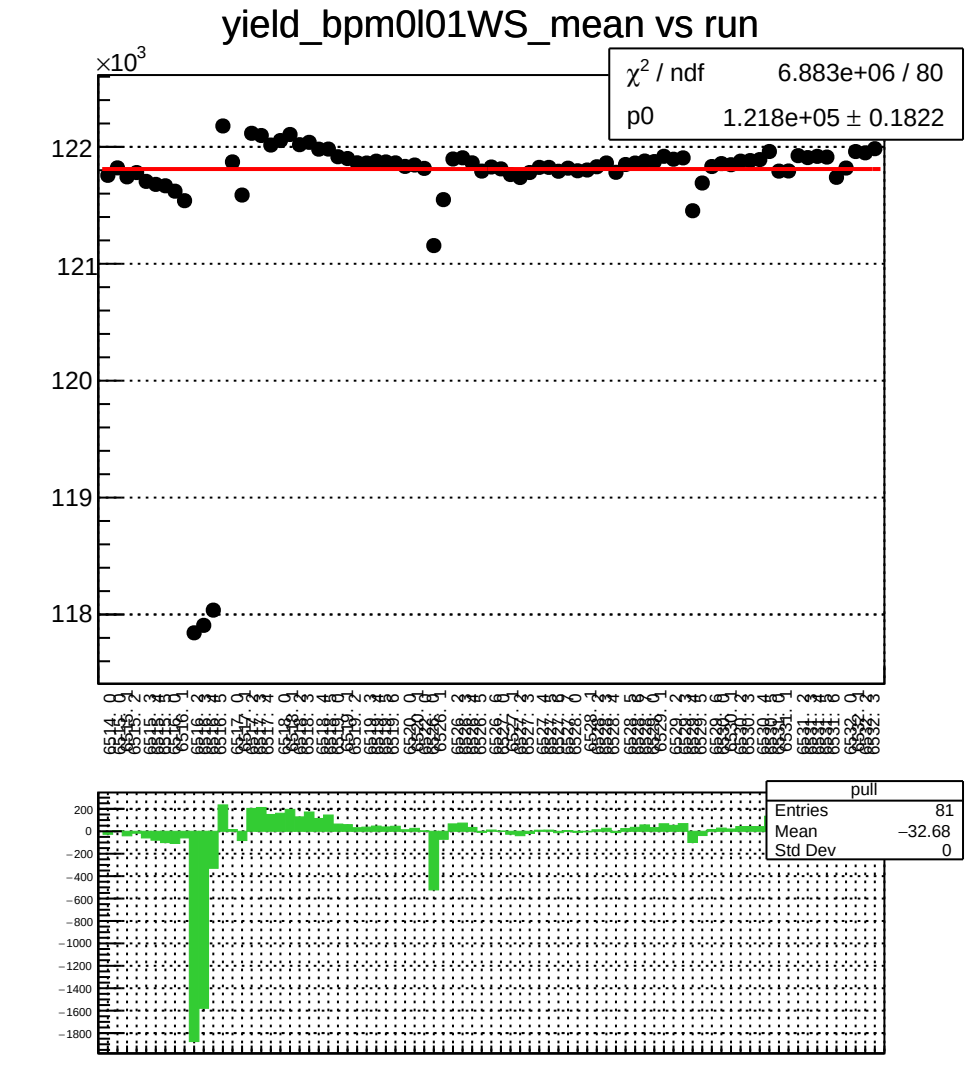

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 5.076e+06 / 80
p0 1.479e+05 ± 0.208
148.5
148
147.5
147
146.5
146
145.5
145
144.5
144
pull
Entries 81
Mean −23.31
Std Dev 0
0
−500
−1000
−1500
−2000

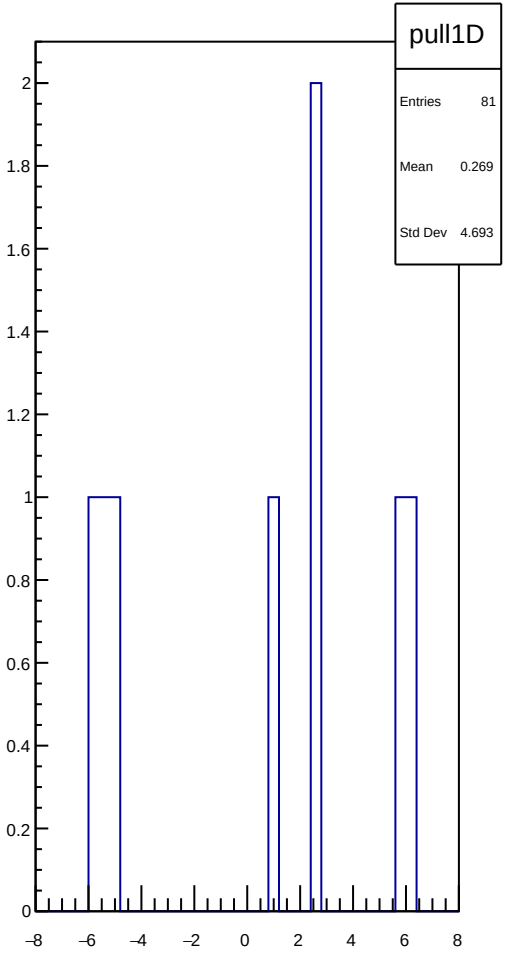

pull1D
Entries 81
Mean −0.806
Std Dev 4.334
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

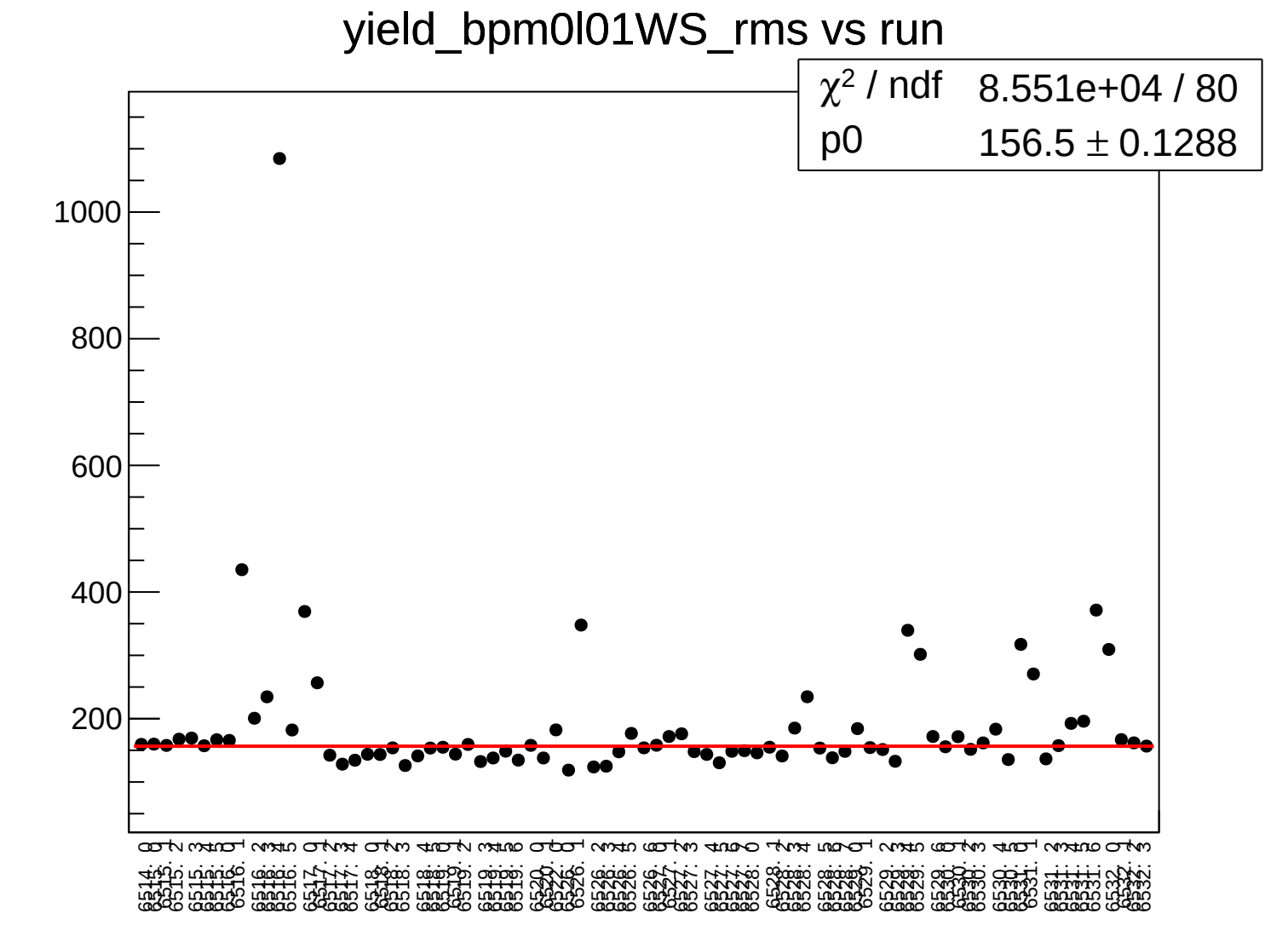

yield_bpm0i01WS_rms vs run
χ² / ndf 3.268e+04 / 80
p0 181.9 ± 0.1471
1400
1200
1000
800
600
400
200

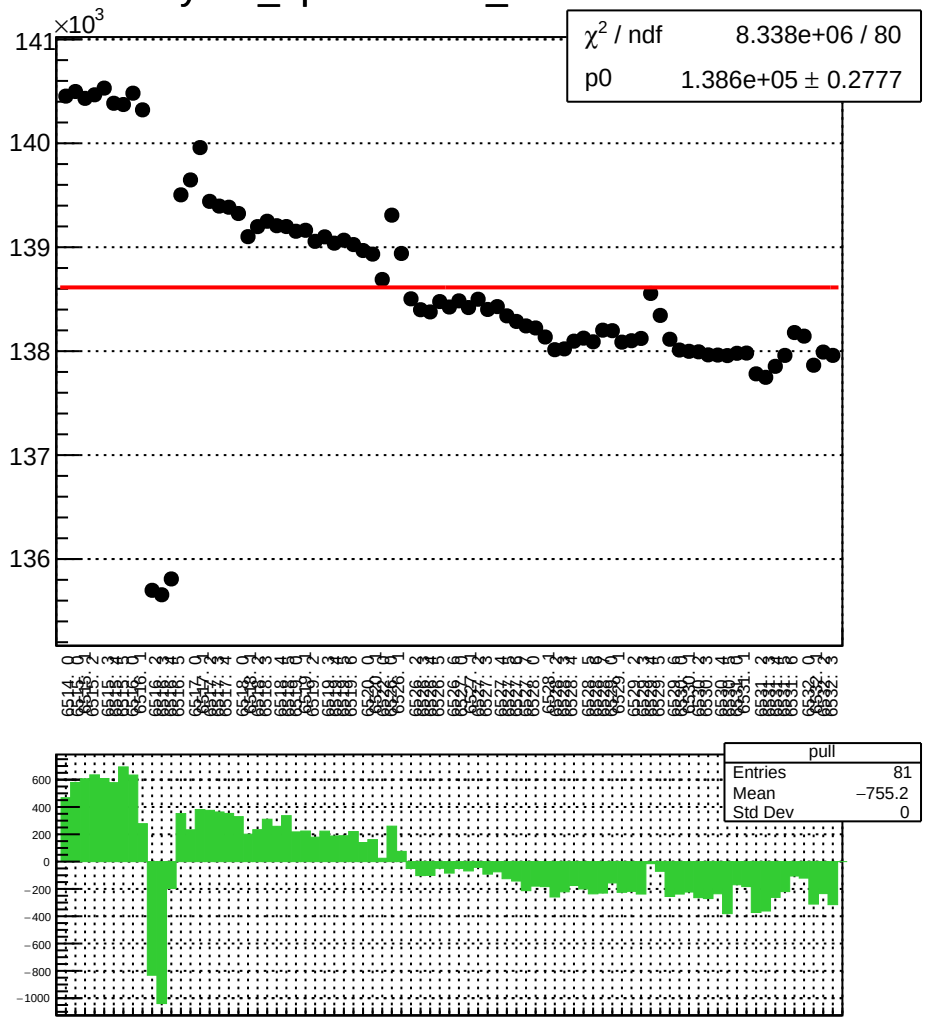

yield_bpm0i01aWS_mean vs run
×10^3
147
146
145
144
143
142
χ² / ndf 8.172e+06 / 80
p0 1.463e+05 ± 0.2073
pull
Entries 81
Mean 920.2
Std Dev 0
0
−500
−1000
−1500
−2000
−2500
pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

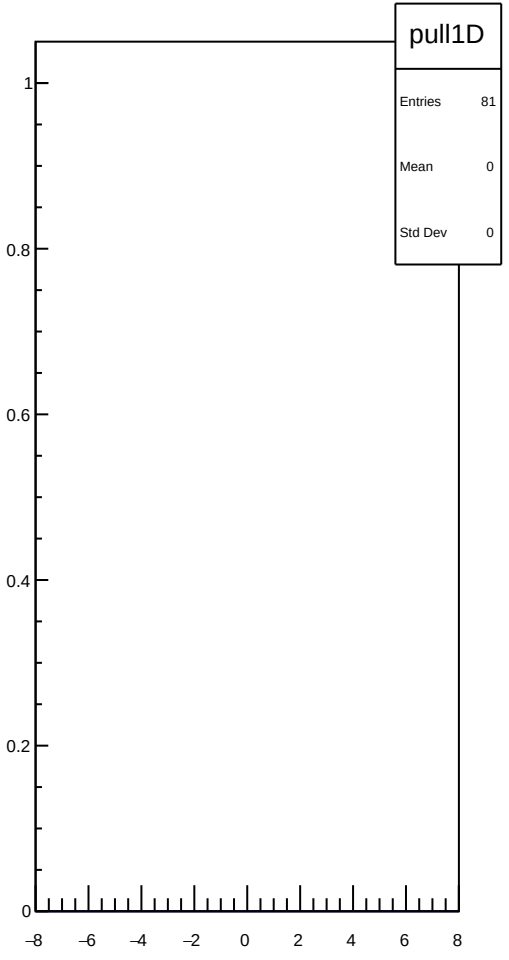

yield_bpm0i01aWS_rms vs run
χ² / ndf 2.986e+04 / 80
p0 181.4 ± 0.1466
1200
1000
800
600
400
200

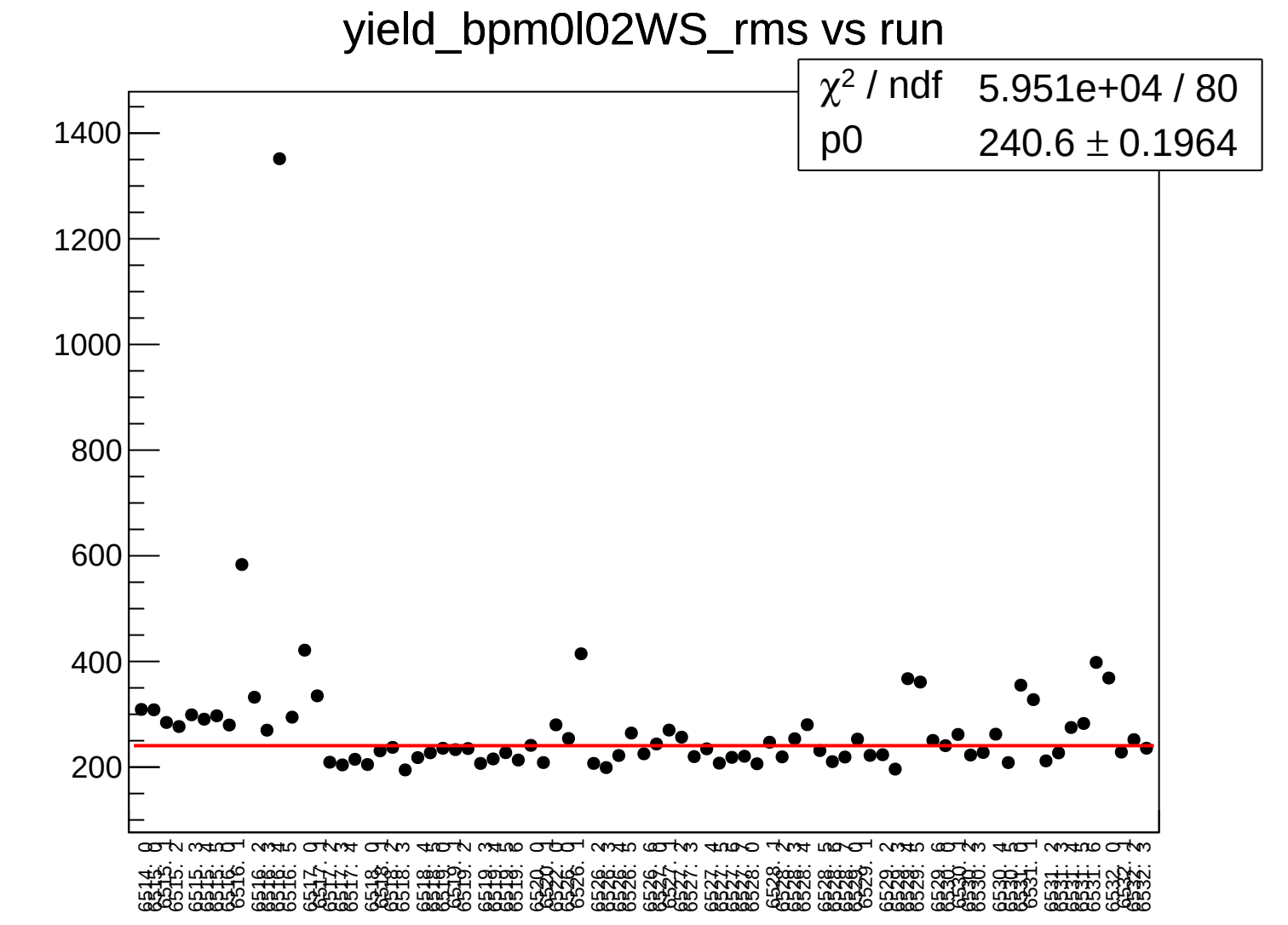

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 6.883e+06 / 80
p0 1.218e+05 ± 0.1822
122
121
120
119
118
pull
Entries 81
Mean −32.68
Std Dev 0
200
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600
−1800

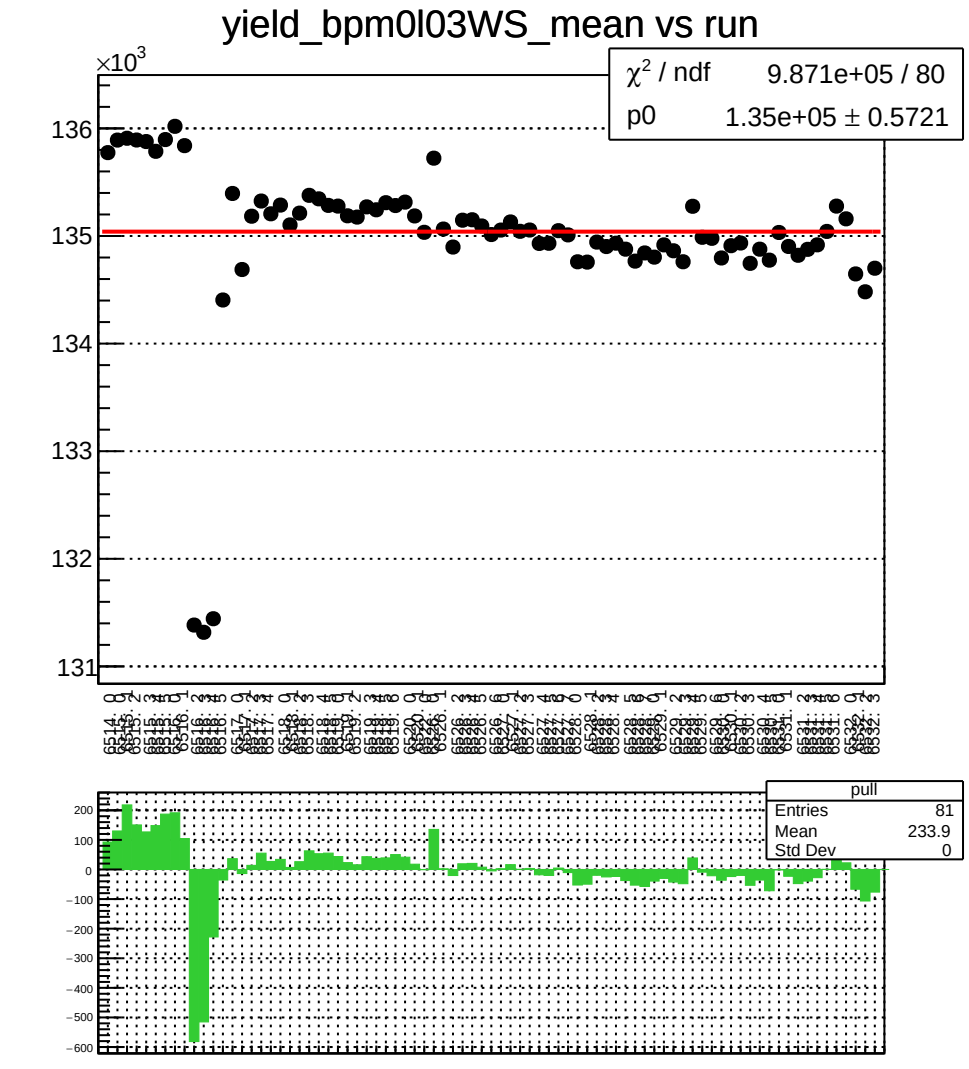

pull1D
Entries 81
Mean 0.269
Std Dev 4.693
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

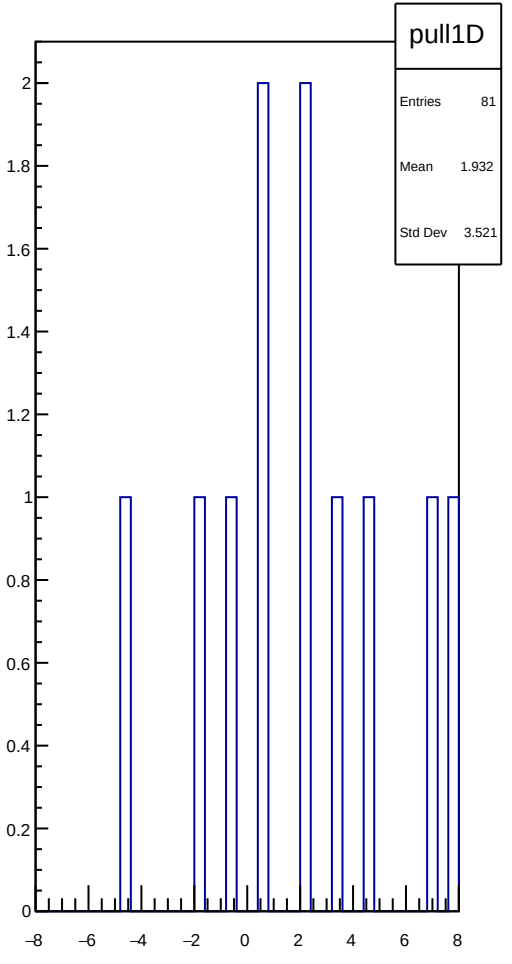

yield_bpm0l01WS_rms vs run
χ² / ndf 8.551e+04 / 80
p0 156.5 ± 0.1288
1000
800
600
400
200

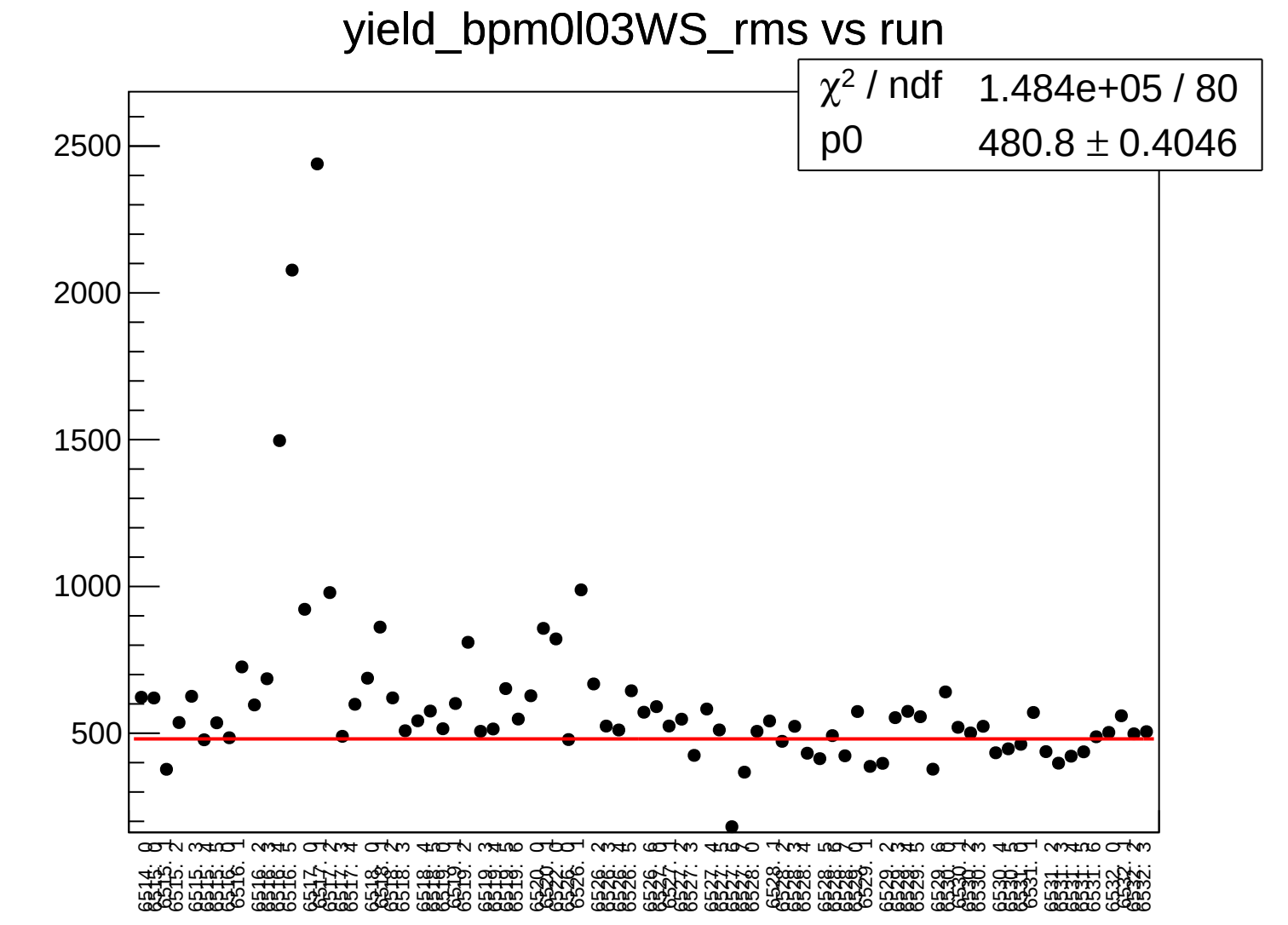

yield_bpm0l02WS_mean vs run
×10^3
141
140
139
138
137
136
χ² / ndf 8.338e+06 / 80
p0 1.386e+05 ± 0.2777
pull
Entries 81
Mean −755.2
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000

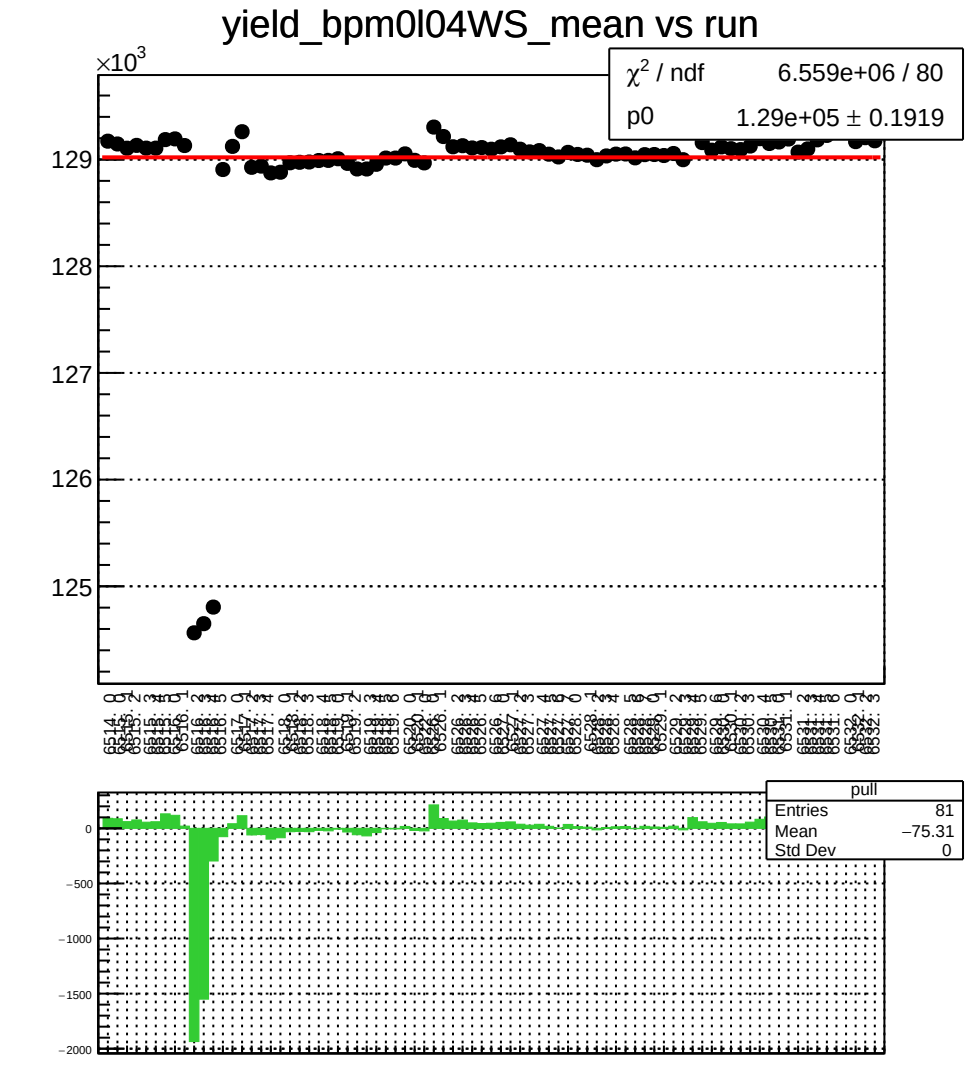

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

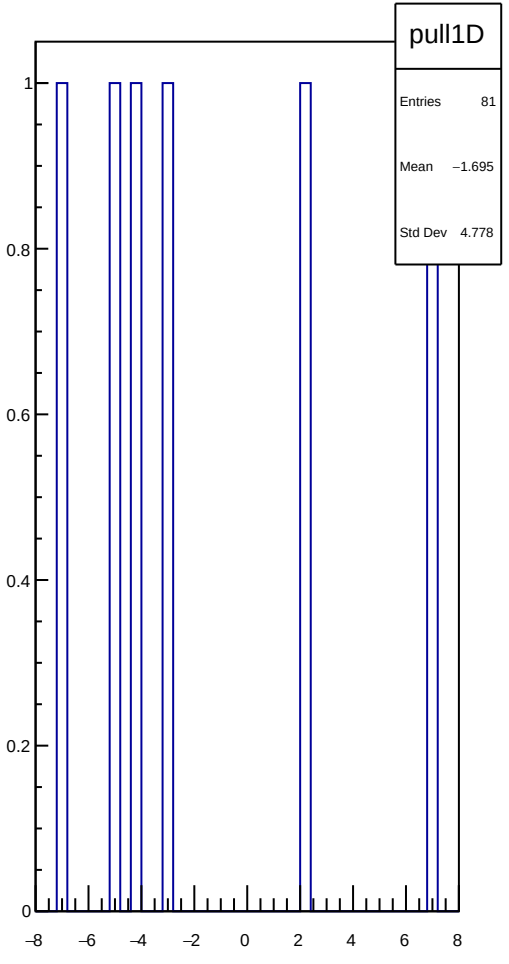

yield_bpm0l02WS_rms vs run
χ² / ndf 5.951e+04 / 80
p0 240.6 ± 0.1964
1400
1200
1000
800
600
400
200

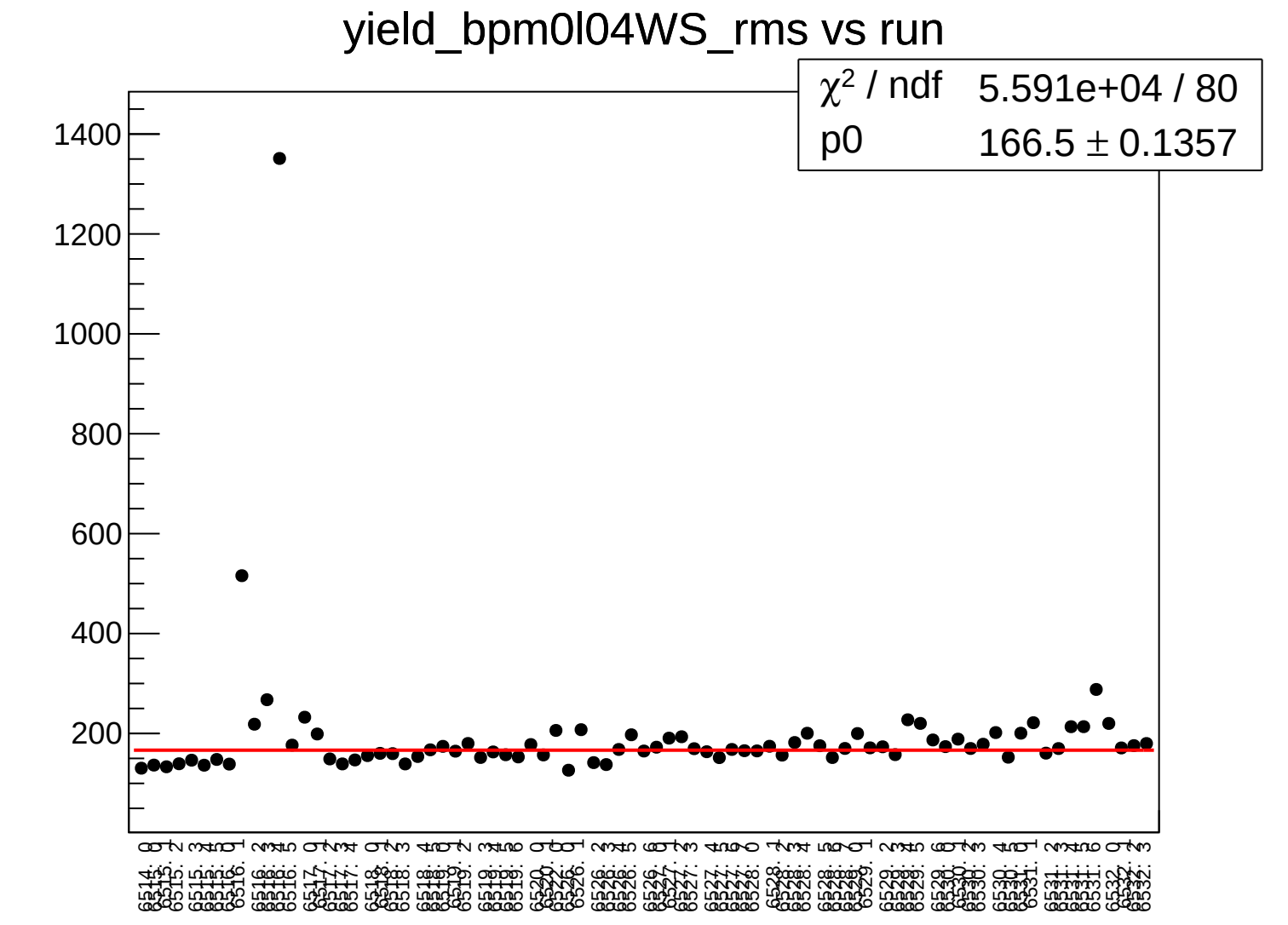

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 9.871e+05 / 80
p0 1.35e+05 ± 0.5721
136
135
134
133
132
131
pull
Entries 81
Mean 233.9
Std Dev 0
200
100
0
−100
−200
−300
−400
−500
−600

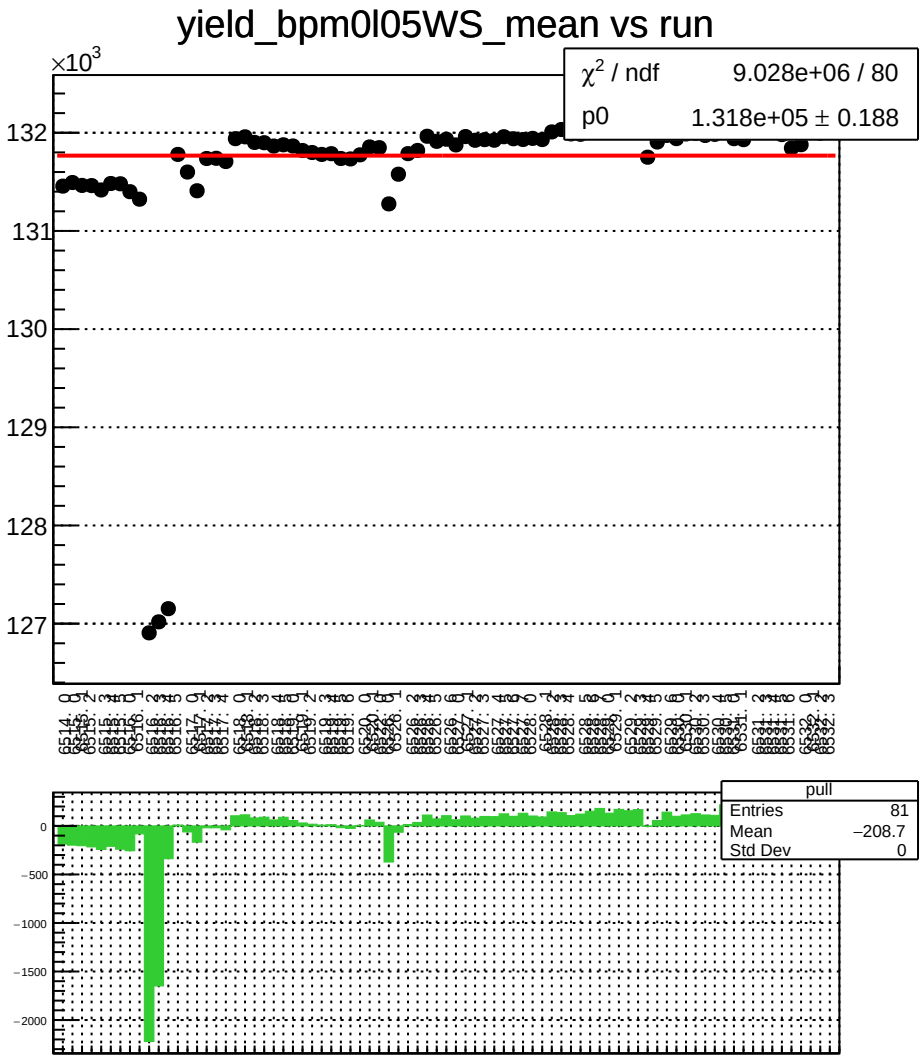

pull1D
Entries 81
Mean 1.932
Std Dev 3.521
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

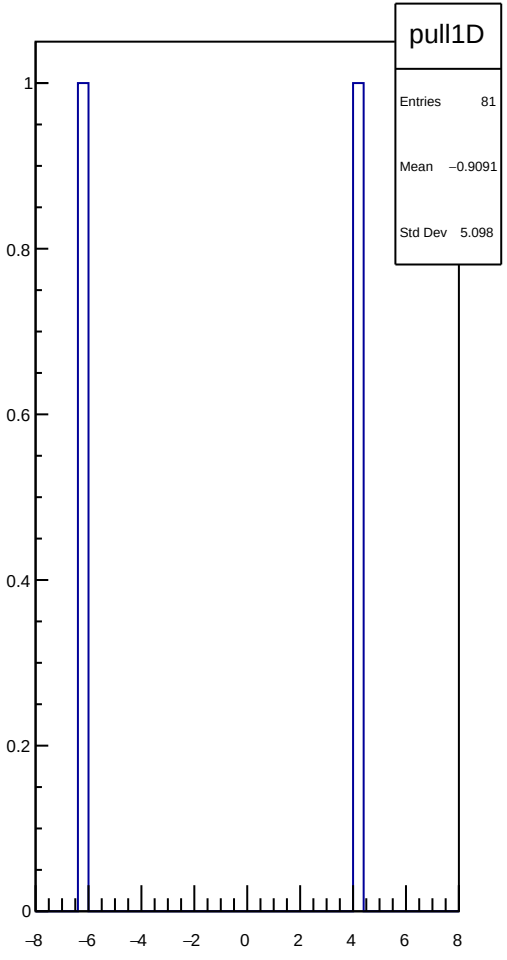

yield_bpm0l03WS_rms vs run
χ² / ndf 1.484e+05 / 80
p0 480.8 ± 0.4046
2500
2000
1500
1000
500

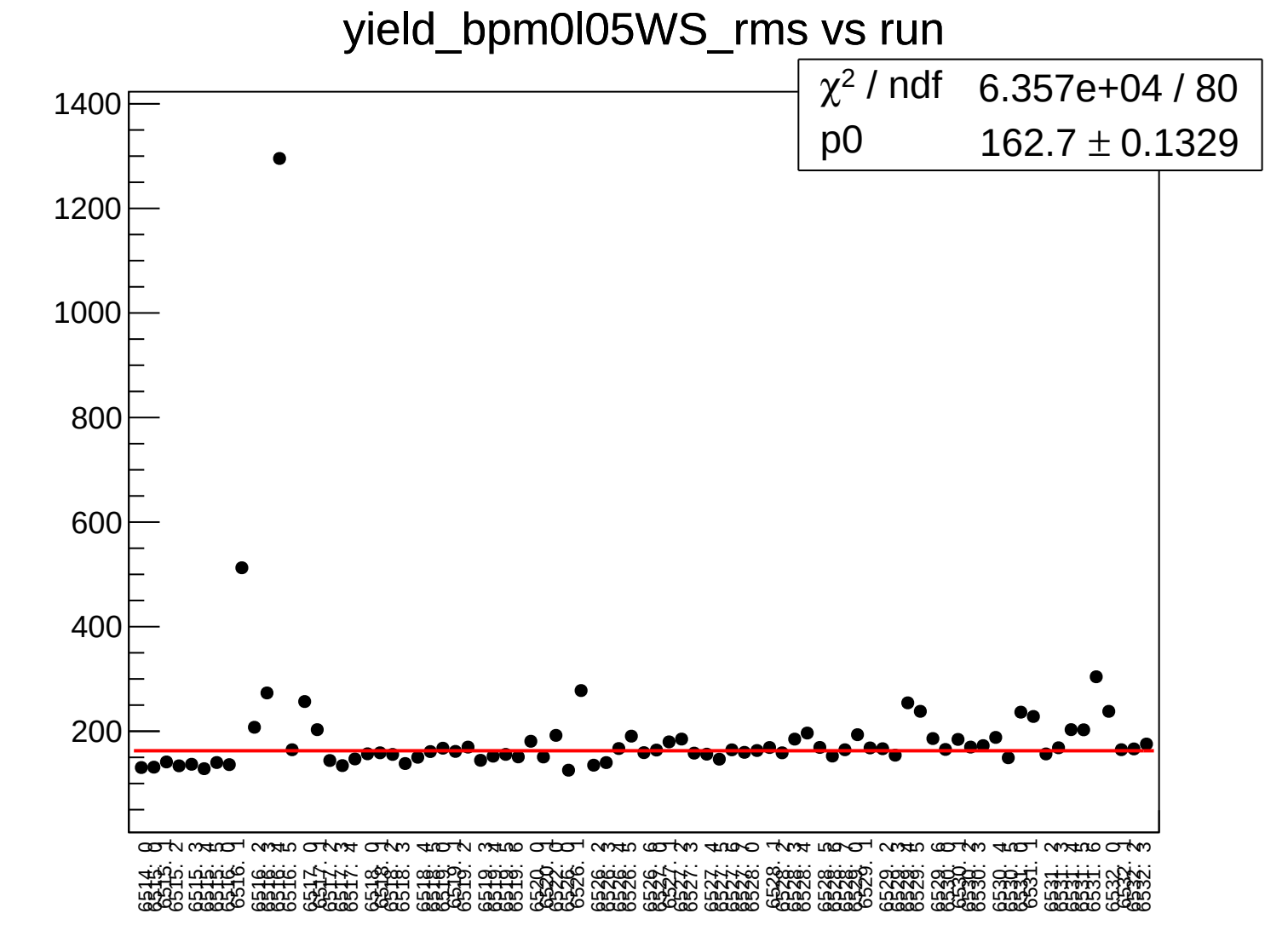

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 6.559e+06 / 80
p0 1.29e+05 ± 0.1919
129
128
127
126
125
pull
Entries 81
Mean −75.31
Std Dev 0
0
−500
−1000
−1500
−2000

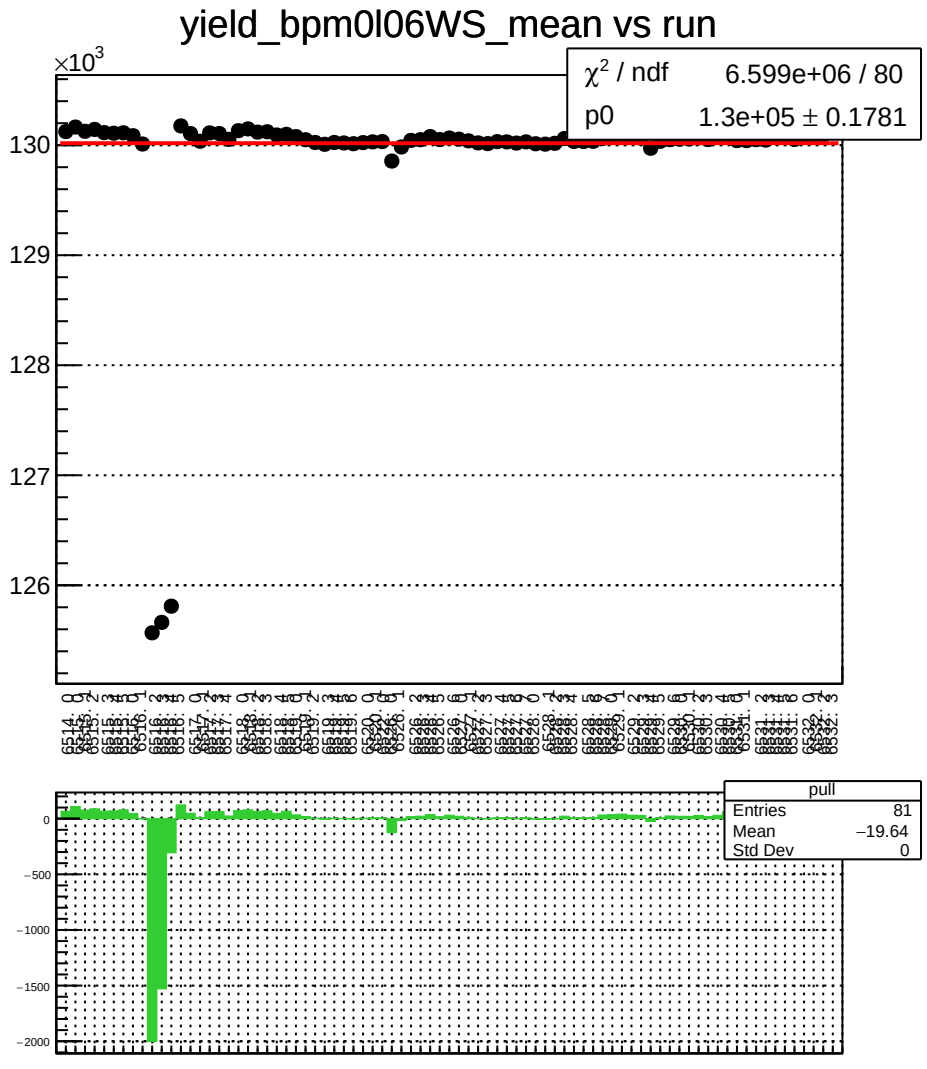

pull1D
Entries 81
Mean −1.695
Std Dev 4.778
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

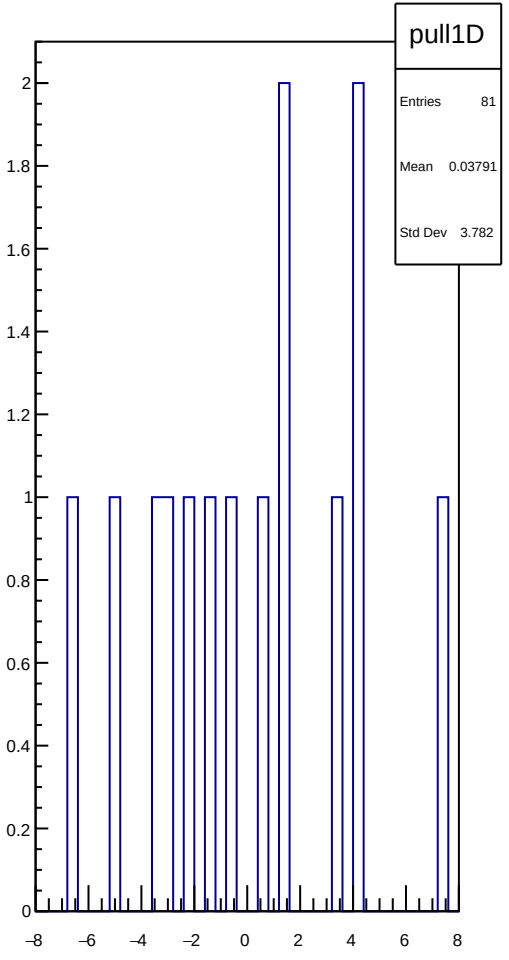

yield_bpm0l04WS_rms vs run
χ² / ndf 5.591e+04 / 80
p0 166.5 ± 0.1357
1400
1200
1000
800
600
400
200

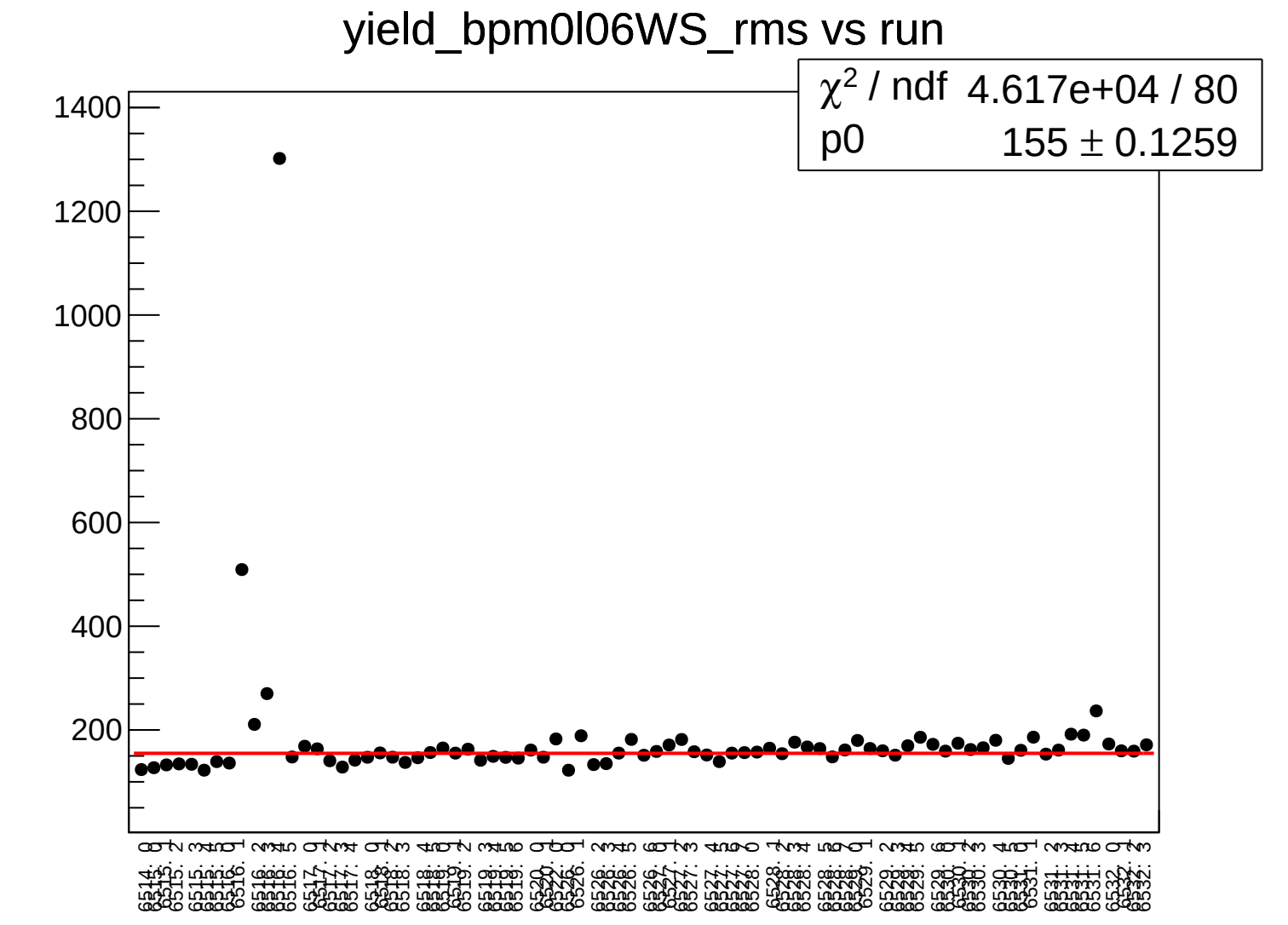

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 9.028e+06 / 80
p0 1.318e+05 ± 0.188
132
131
130
129
128
127
pull
Entries 81
Mean −208.7
Std Dev 0
0
−500
−1000
−1500
−2000

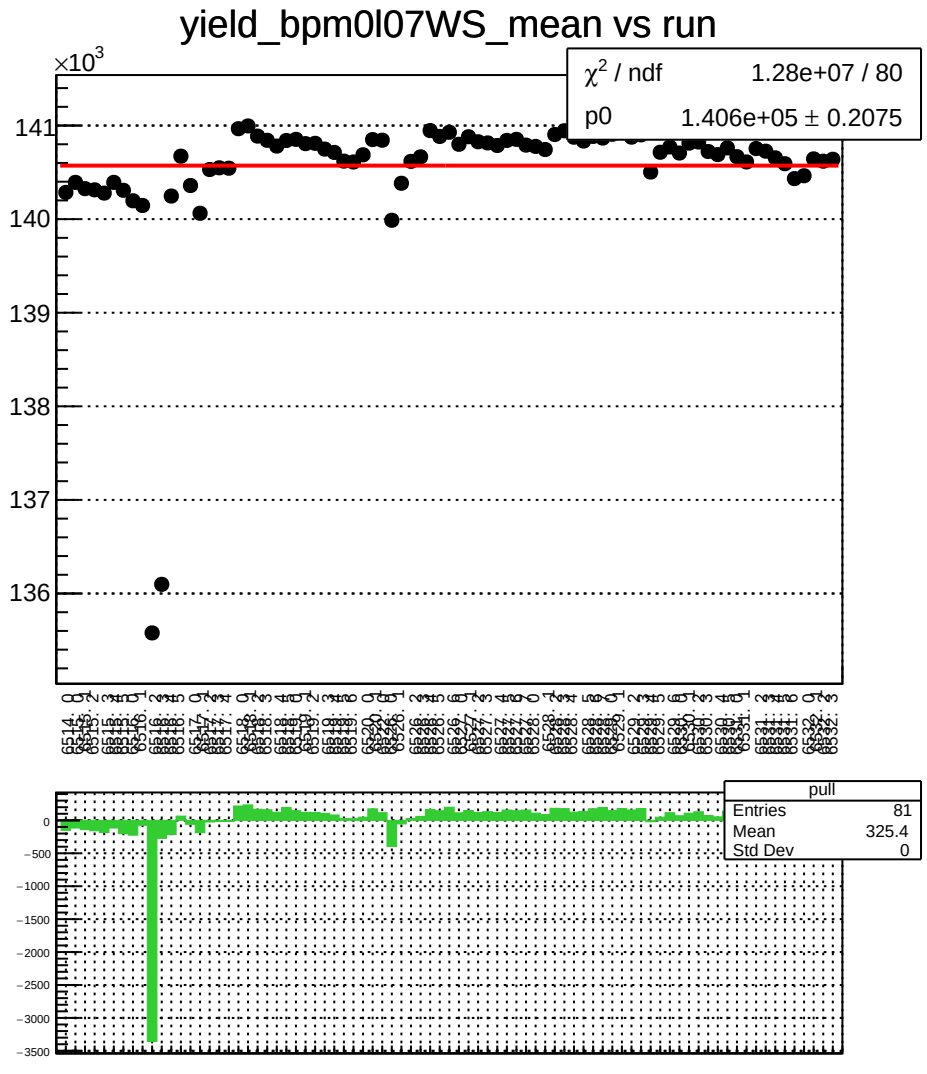

pull1D
Entries 81
Mean −0.9091
Std Dev 5.098
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

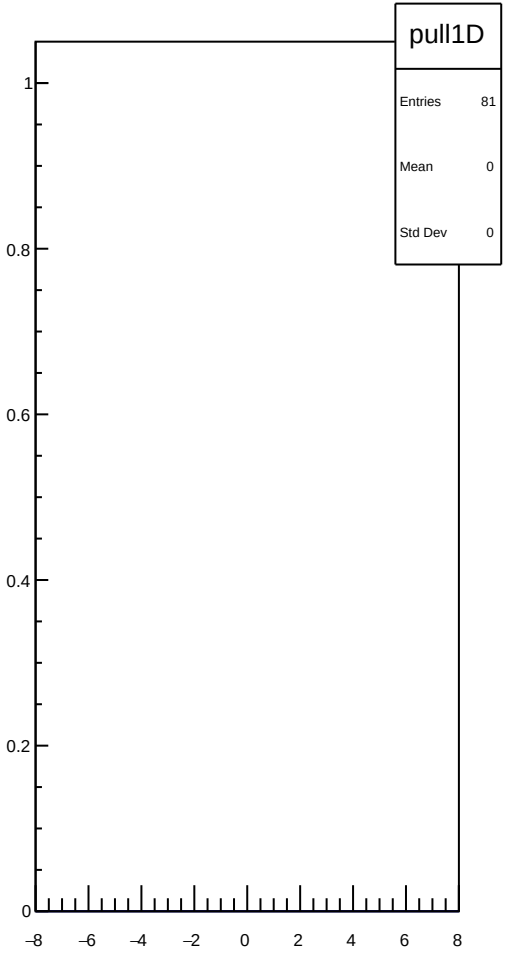

yield_bpm0l05WS_rms vs run
χ² / ndf 6.357e+04 / 80
p0 162.7 ± 0.1329
1400
1200
1000
800
600
400
200

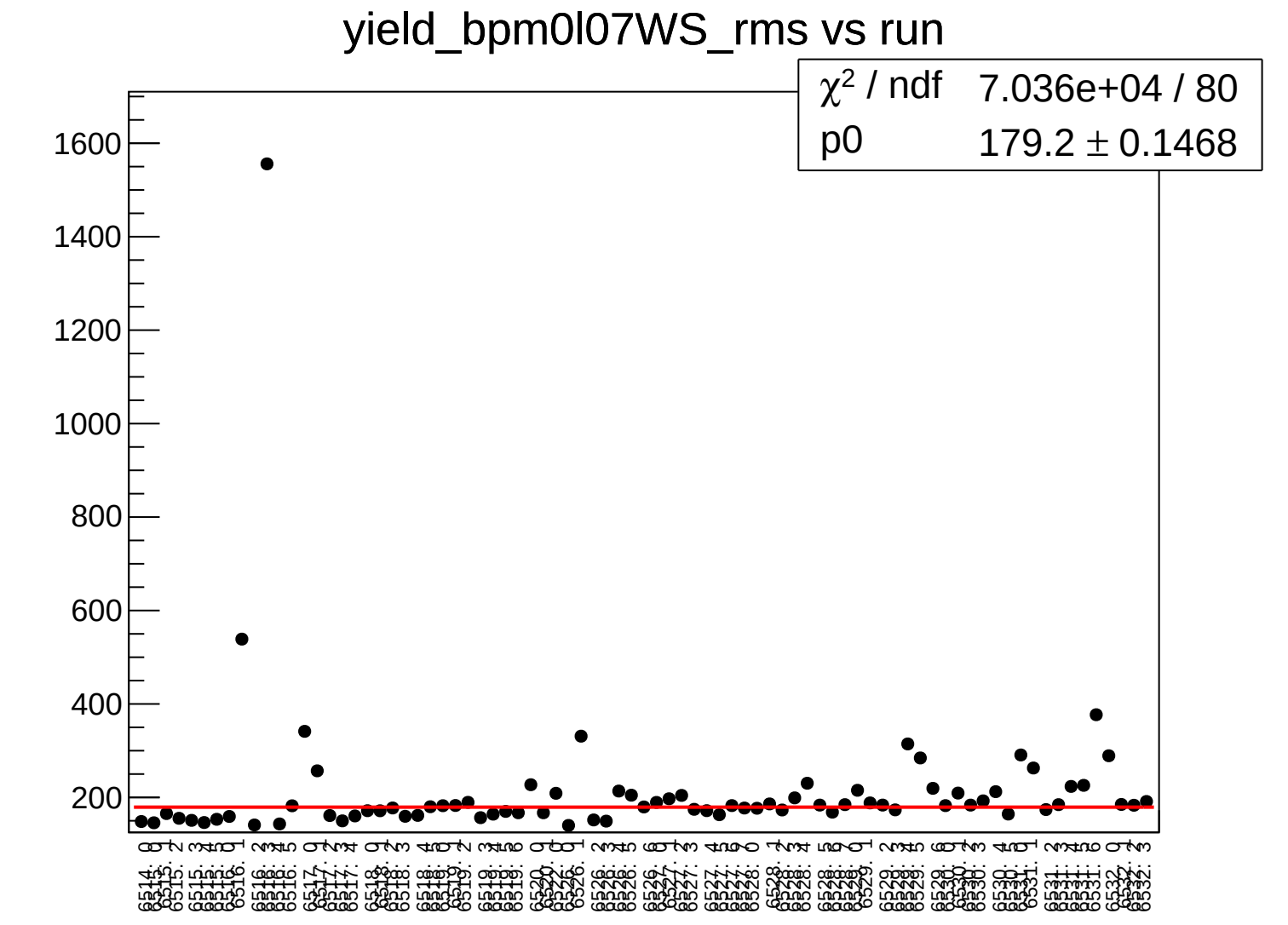

yield_bpm0l06WS_mean vs run
×10^3
χ² / ndf 6.599e+06 / 80
p0 1.3e+05 ± 0.1781
130
129
128
127
126
pull
Entries 81
Mean −19.64
Std Dev 0
0
−500
−1000
−1500
−2000

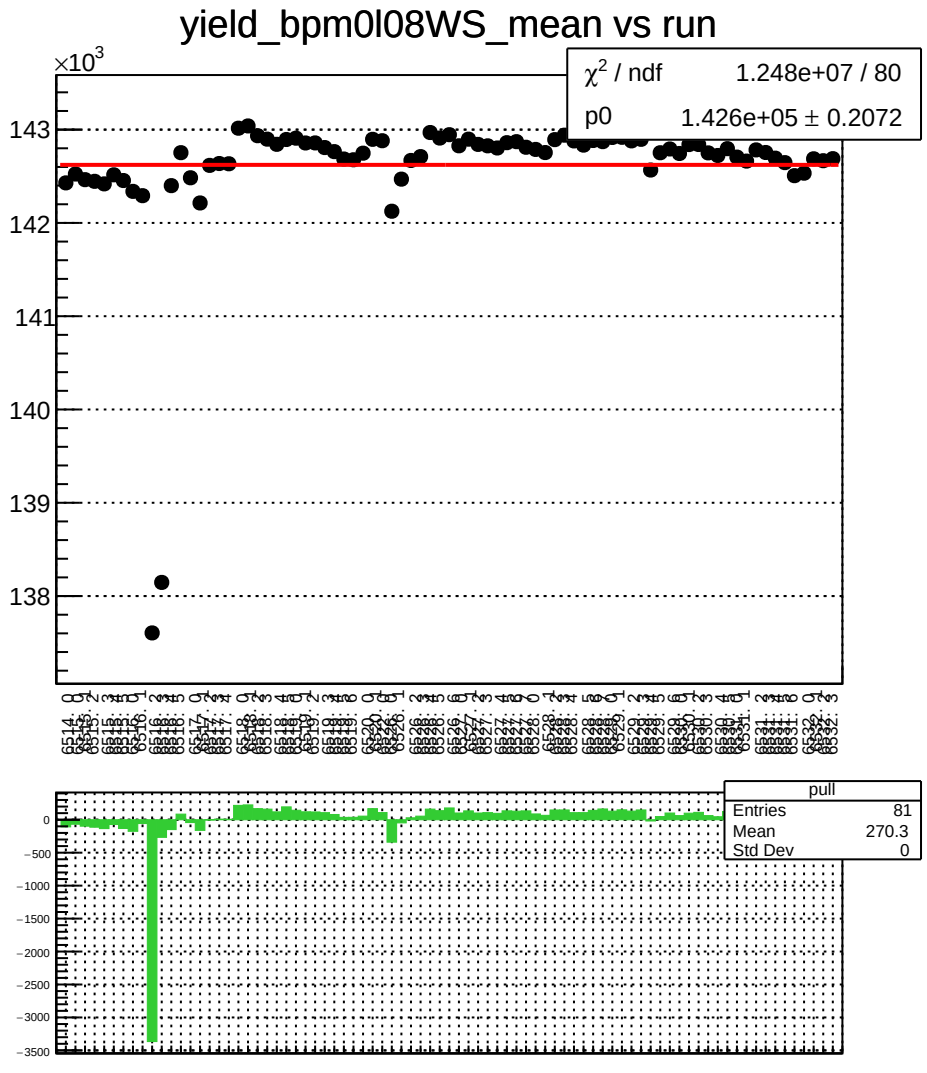

pull1D
Entries 81
Mean 0.03791
Std Dev 3.782
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

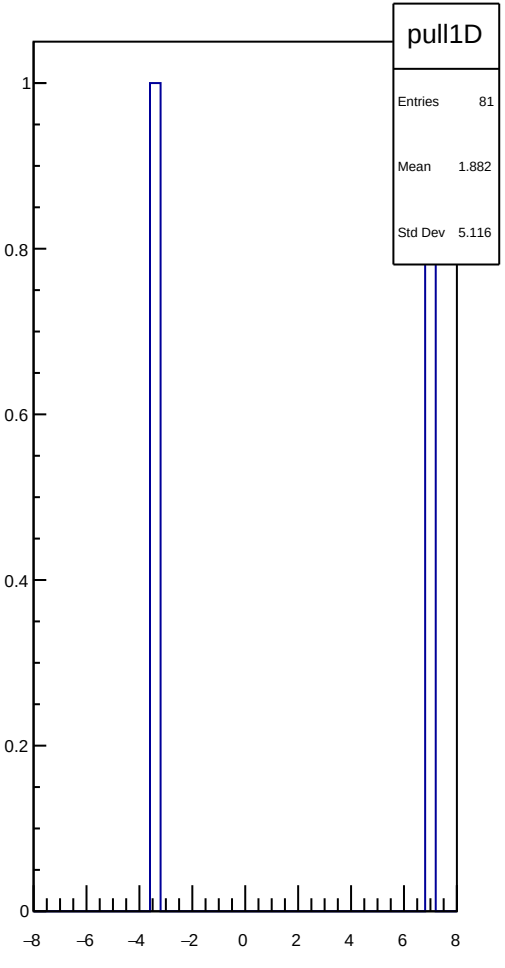

yield_bpm0l06WS_rms vs run
χ² / ndf 4.617e+04 / 80
p0 155 ± 0.1259
1400
1200
1000
800
600
400
200

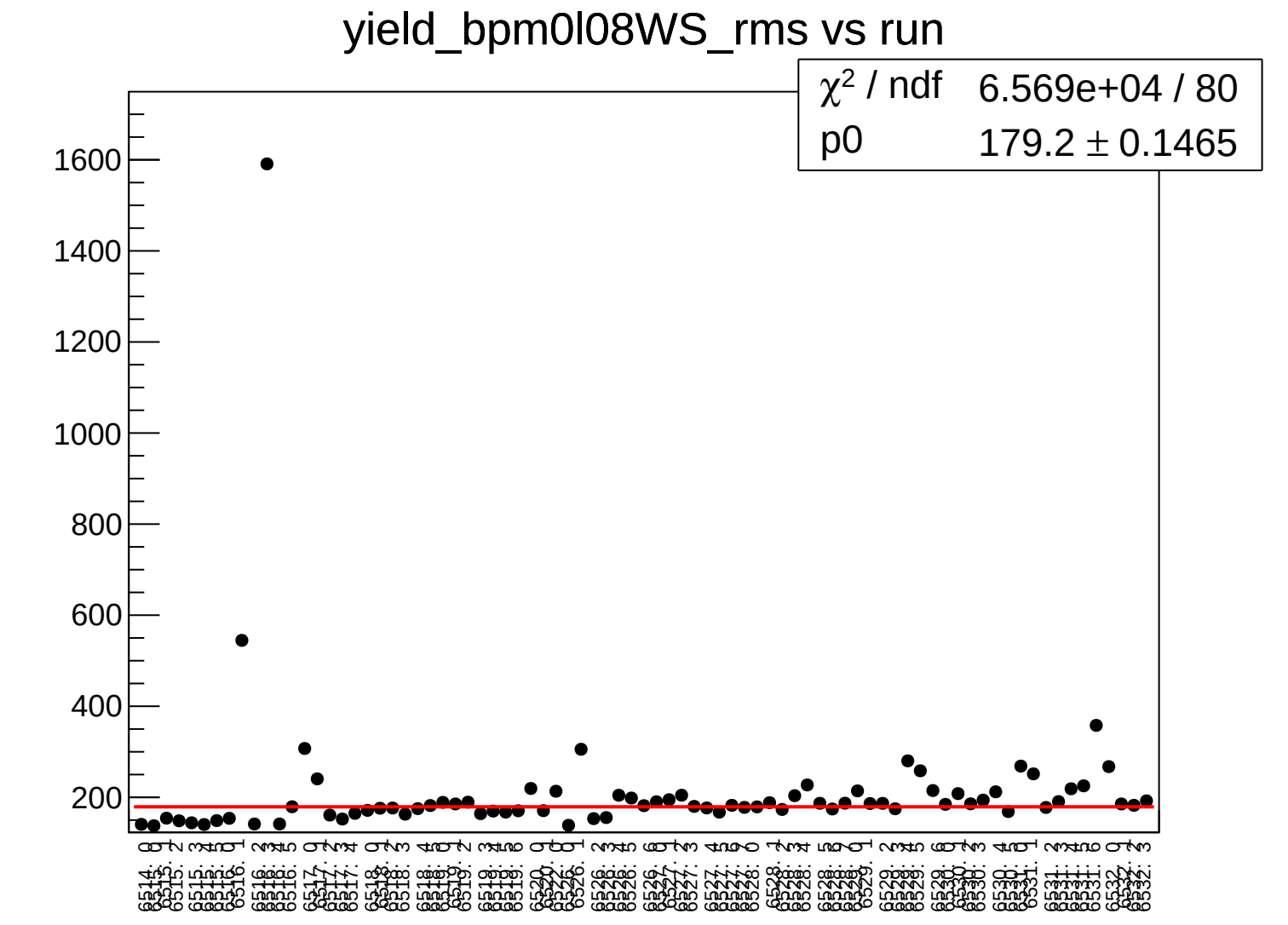

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 1.28e+07 / 80
p0 1.406e+05 ± 0.2075
141
140
139
138
137
136
pull
Entries 81
Mean 325.4
Std Dev 0
0
−500
−1000
−1500
−2000
−2500
−3000
−3500

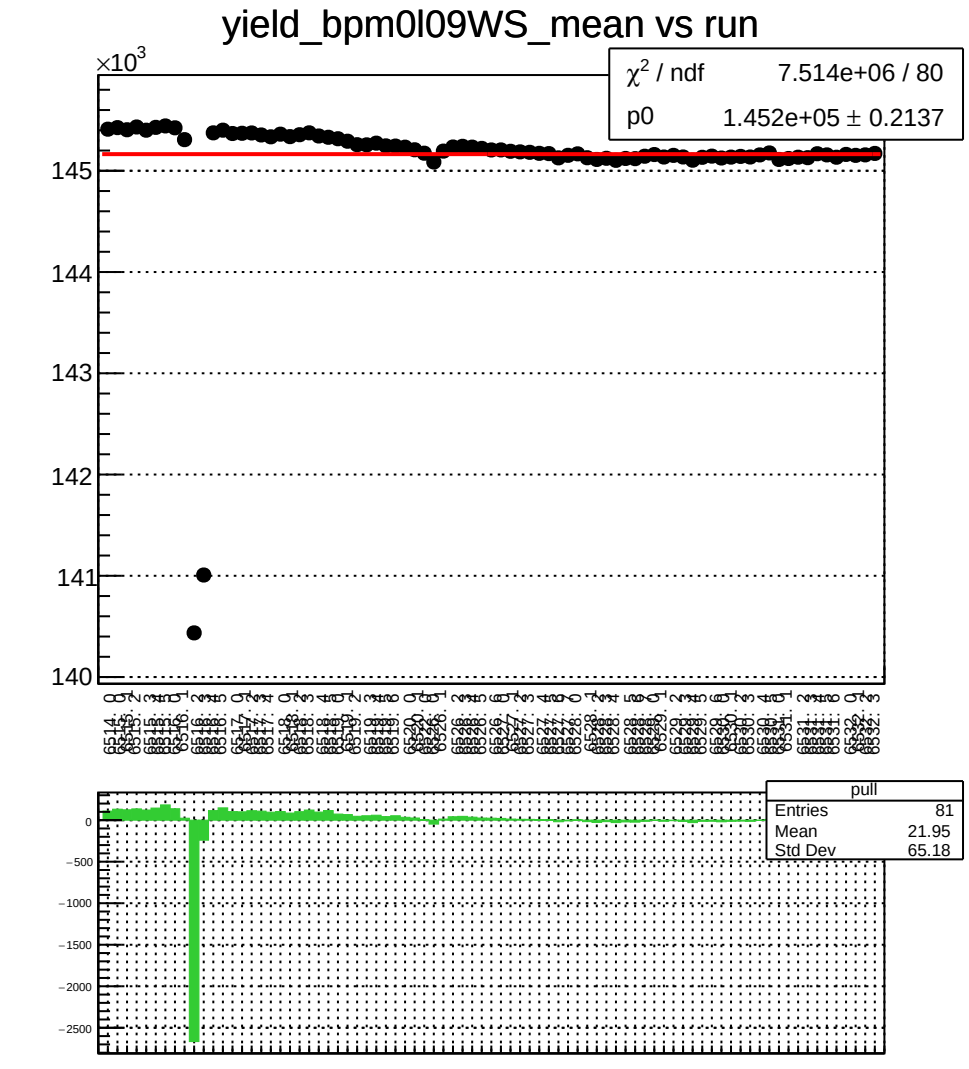

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

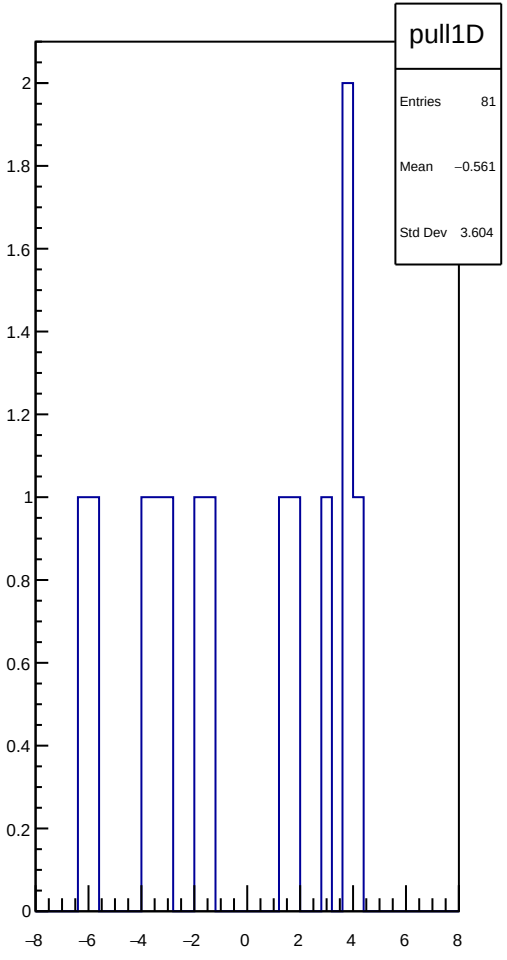

yield_bpm0l07WS_rms vs run
χ² / ndf 7.036e+04 / 80
p0 179.2 ± 0.1468
1600
1400
1200
1000
800
600
400
200

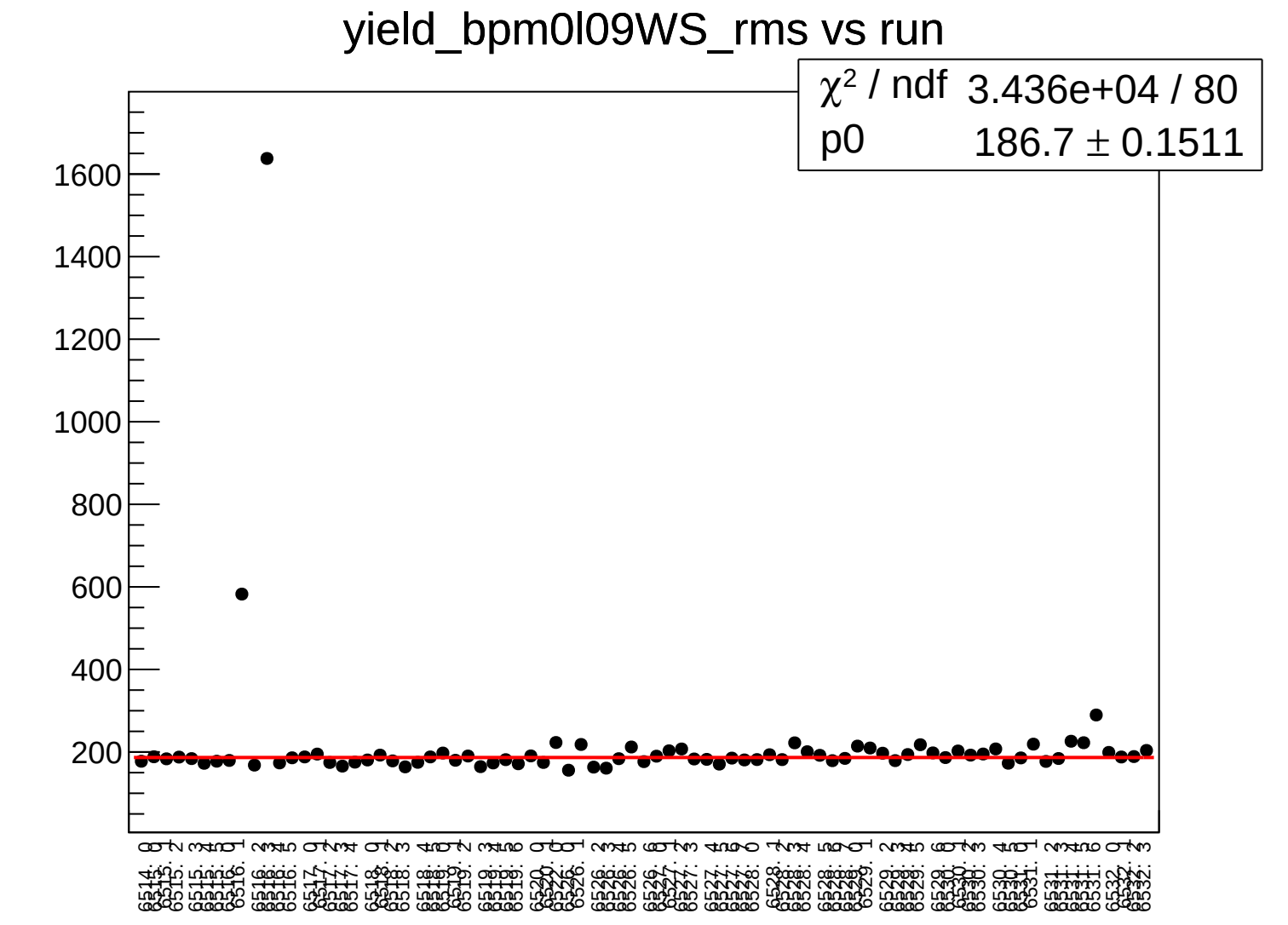

yield_bpm0l08WS_mean vs run
×10^3
χ² / ndf 1.248e+07 / 80
p0 1.426e+05 ± 0.2072
143
142
141
140
139
138
pull
Entries 81
Mean 270.3
Std Dev 0
0
−500
−1000
−1500
−2000
−2500
−3000
−3500

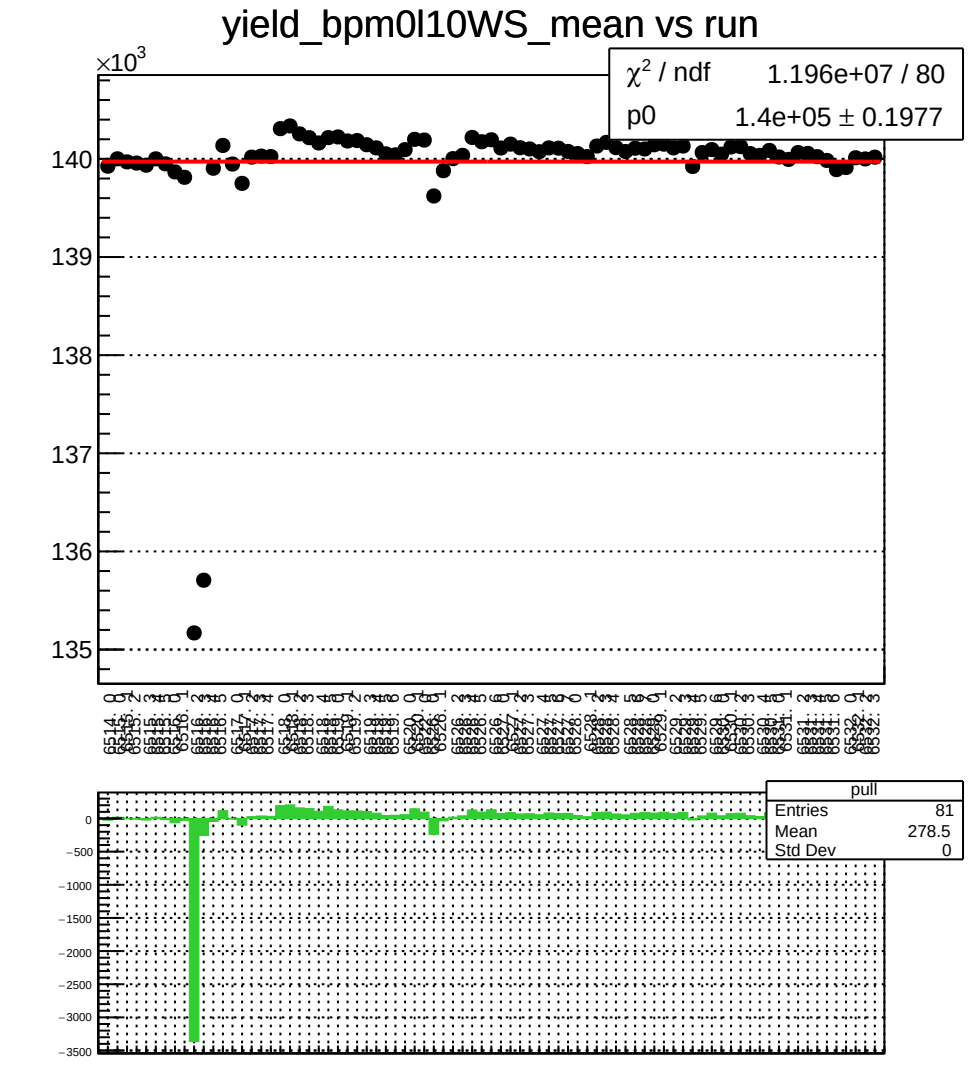

pull1D
Entries 81
Mean 1.882
Std Dev 5.116
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

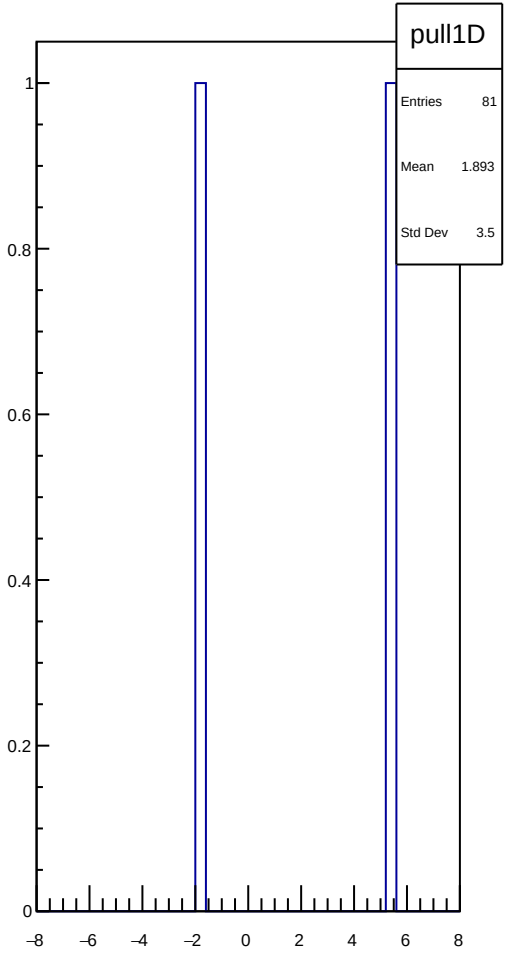

yield_bpm0l08WS_rms vs run
χ² / ndf 6.569e+04 / 80
p0 179.2 ± 0.1465
1600
1400
1200
1000
800
600
400
200

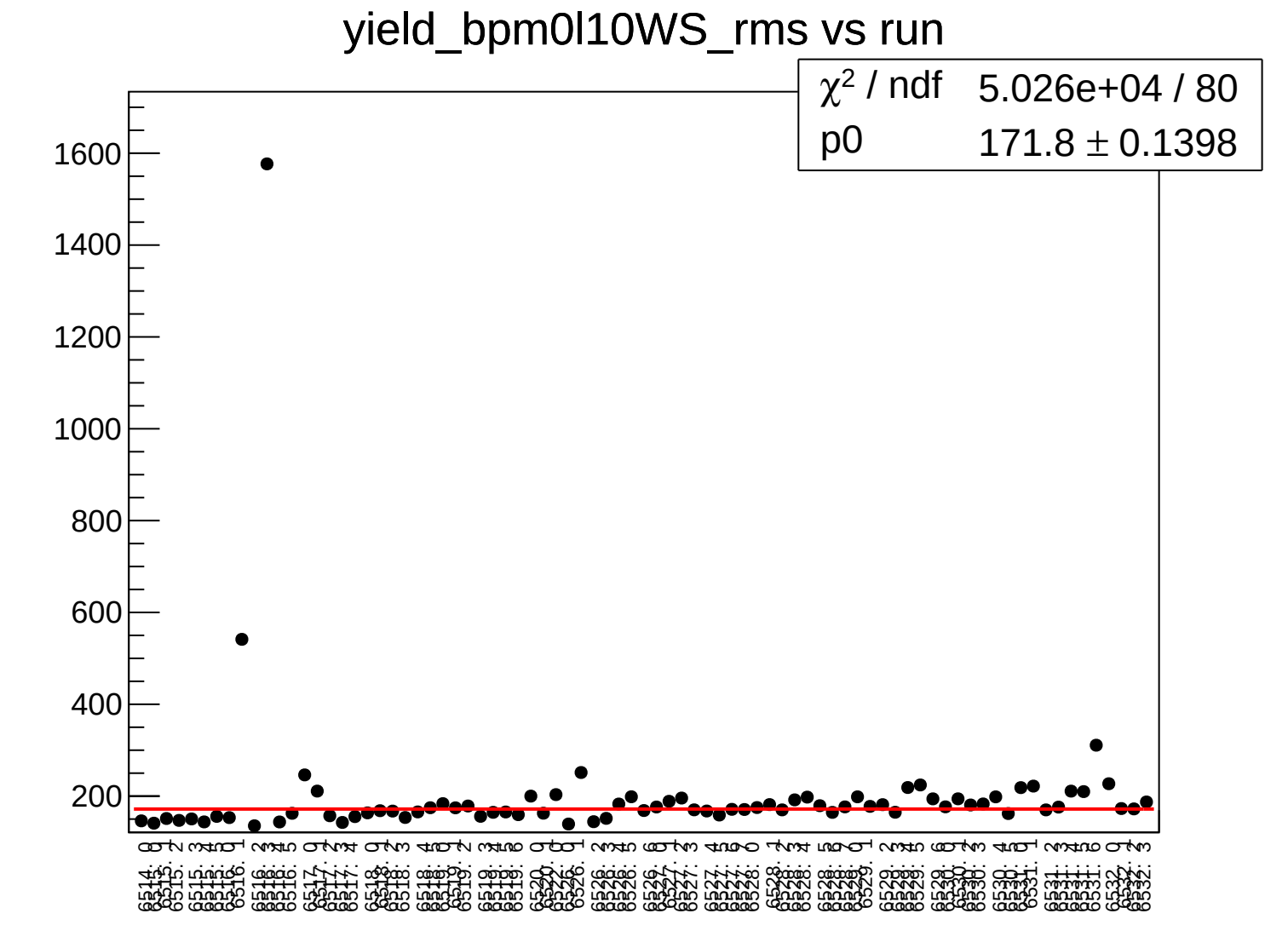

yield_bpm0l09WS_mean vs run
×10^3
χ² / ndf 7.514e+06 / 80
p0 1.452e+05 ± 0.2137
145
144
143
142
141
140
pull
Entries 81
Mean 21.95
Std Dev 65.18
0
−500
−1000
−1500
−2000
−2500

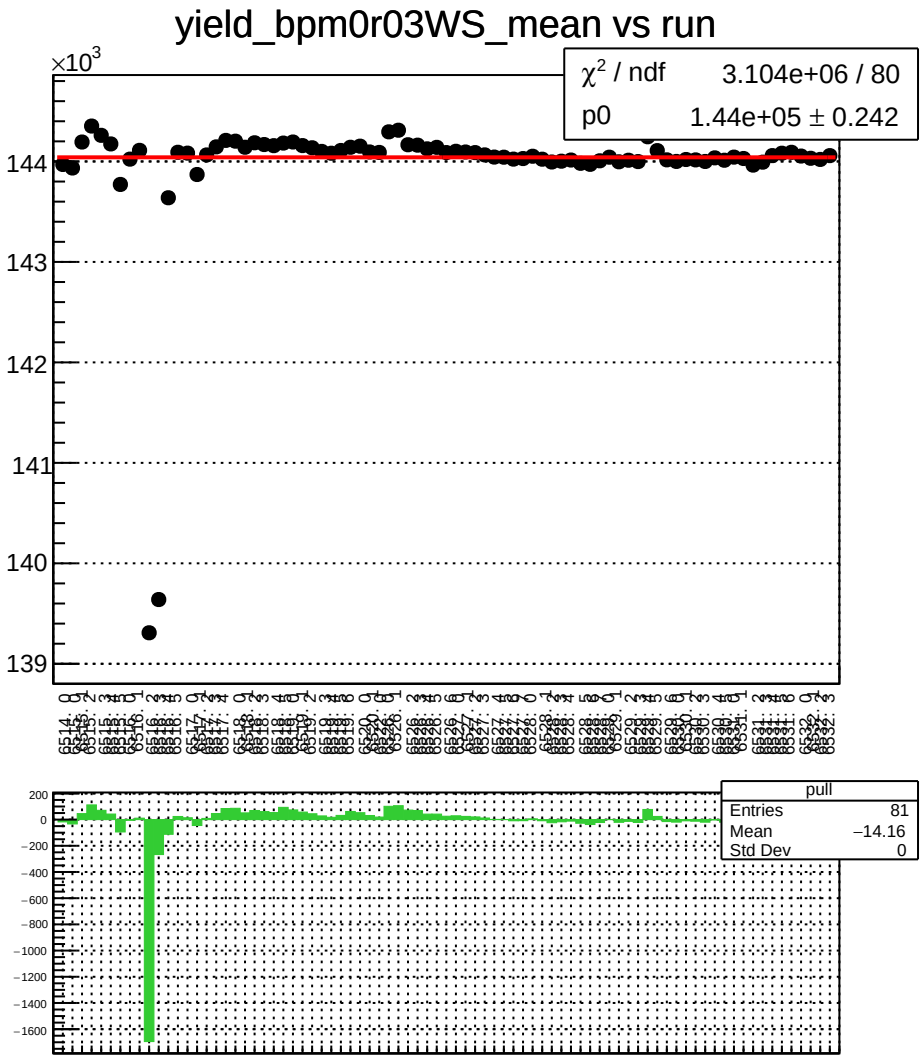

pull1D
Entries 81
Mean −0.561
Std Dev 3.604
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

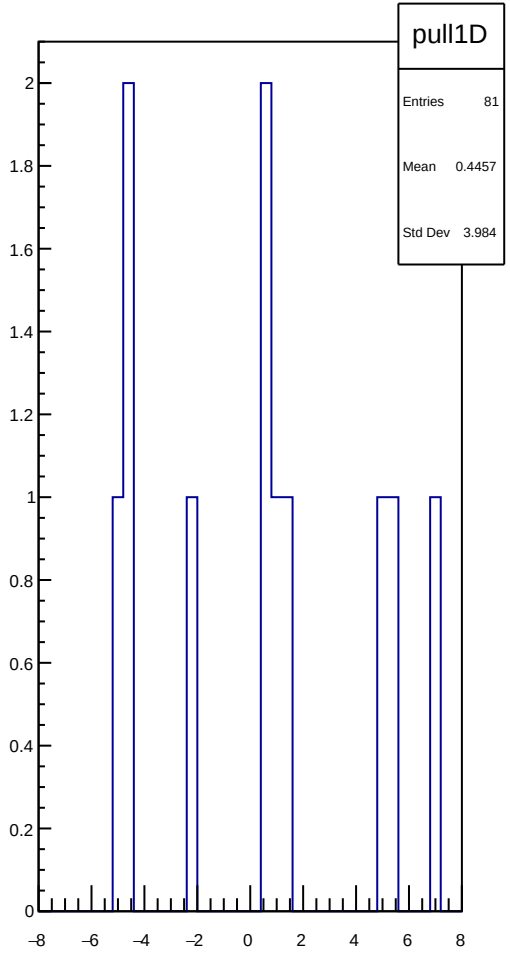

yield_bpm0l09WS_rms vs run
χ² / ndf 3.436e+04 / 80
p0 186.7 ± 0.1511
1600
1400
1200
1000
800
600
400
200

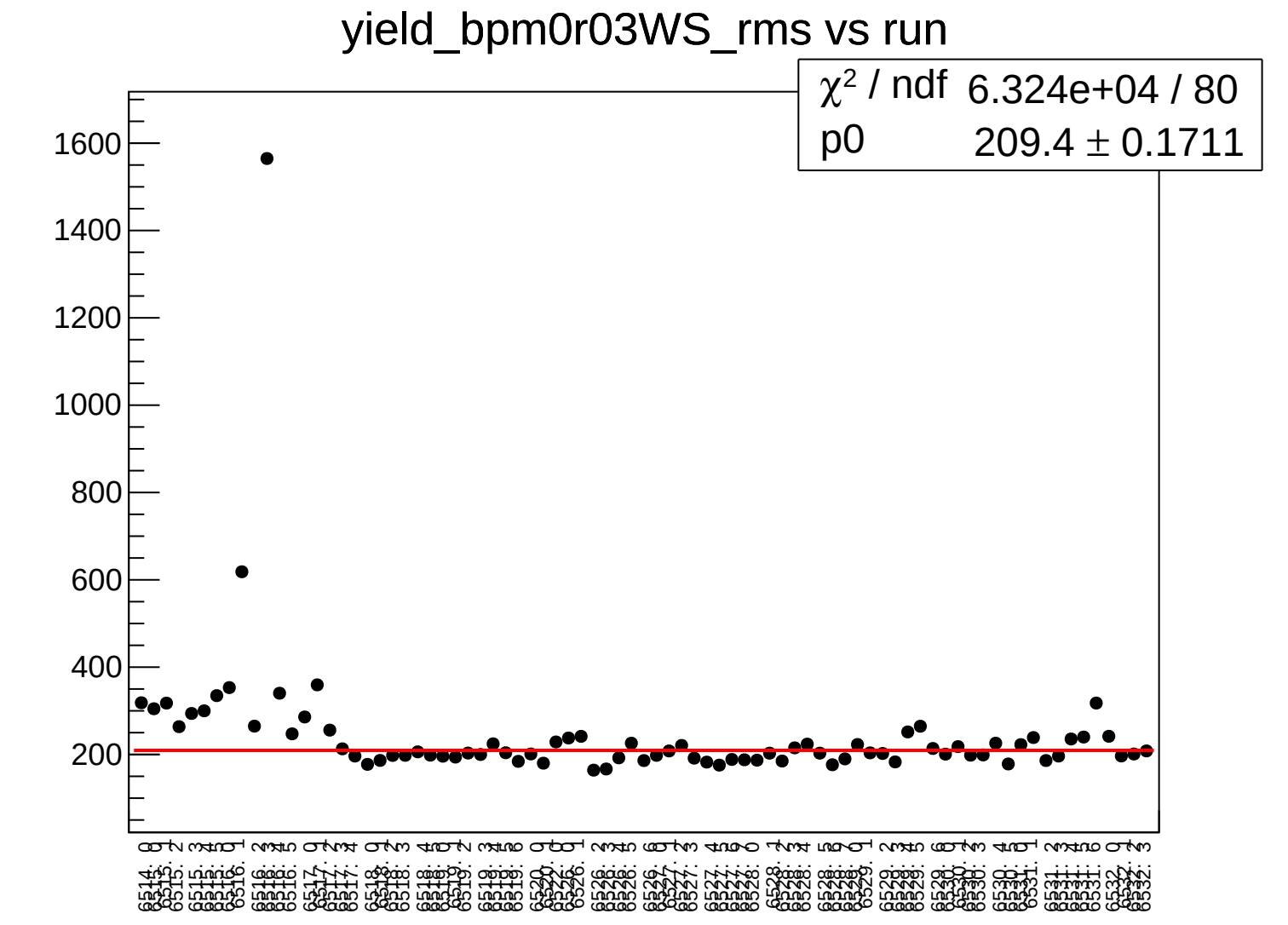

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 1.196e+07 / 80
p0 1.4e+05 ± 0.1977
140
139
138
137
136
135
pull
Entries 81
Mean 278.5
Std Dev 0
0
−500
−1000
−1500
−2000
−2500
−3000
−3500

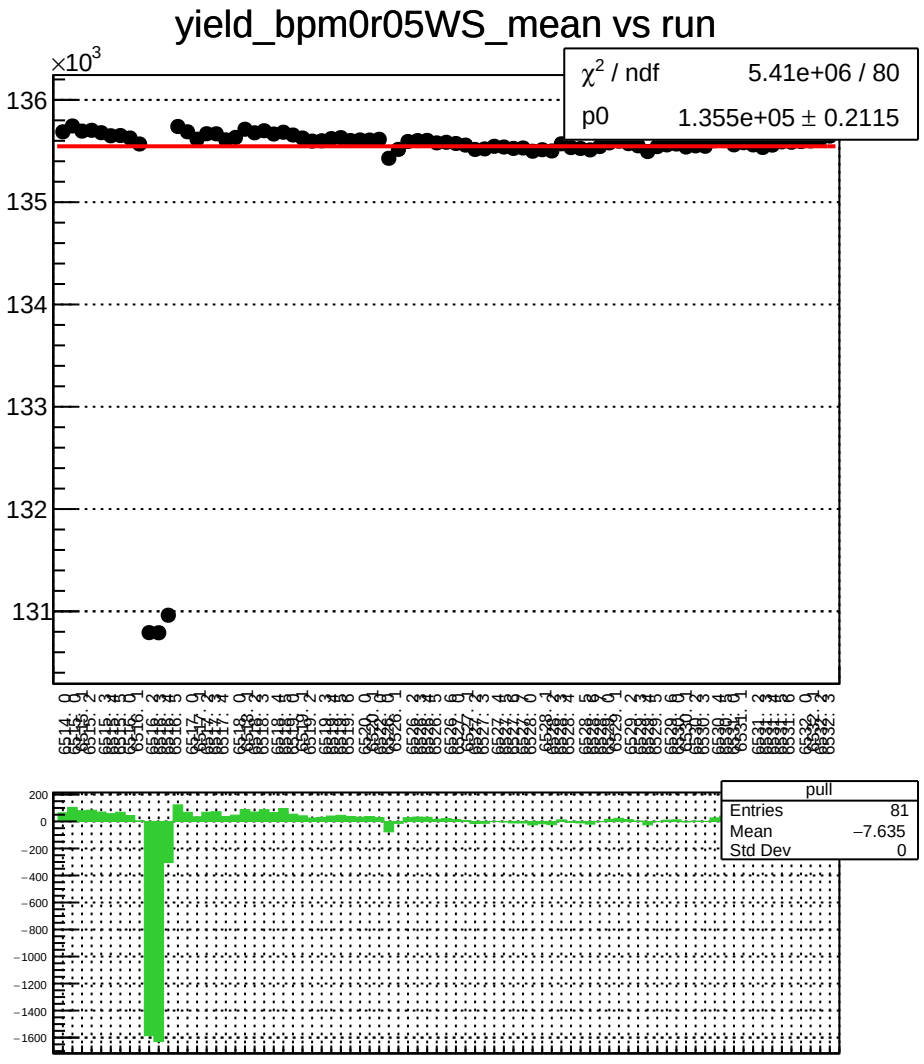

pull1D
Entries 81
Mean 1.893
Std Dev 3.5
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

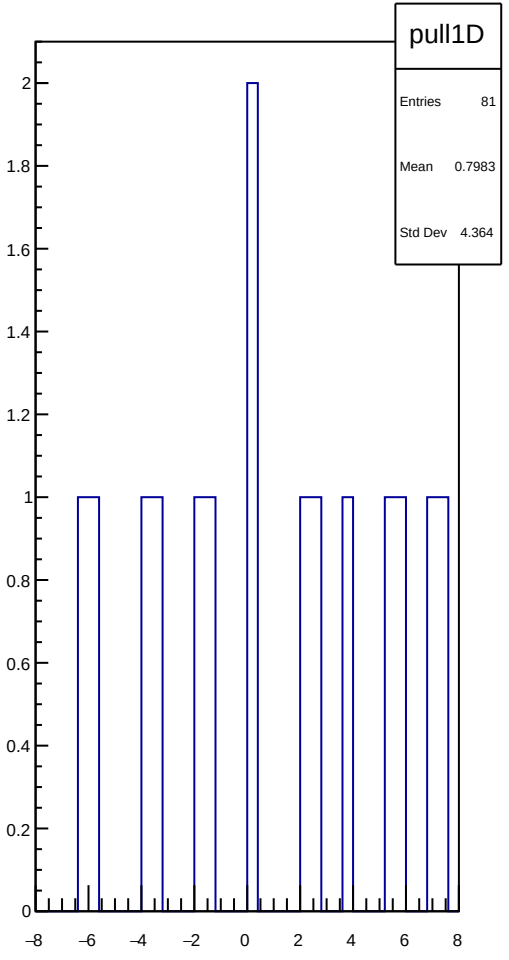

yield_bpm0l10WS_rms vs run
χ² / ndf 5.026e+04 / 80
p0 171.8 ± 0.1398
1600
1400
1200
1000
800
600
400
200

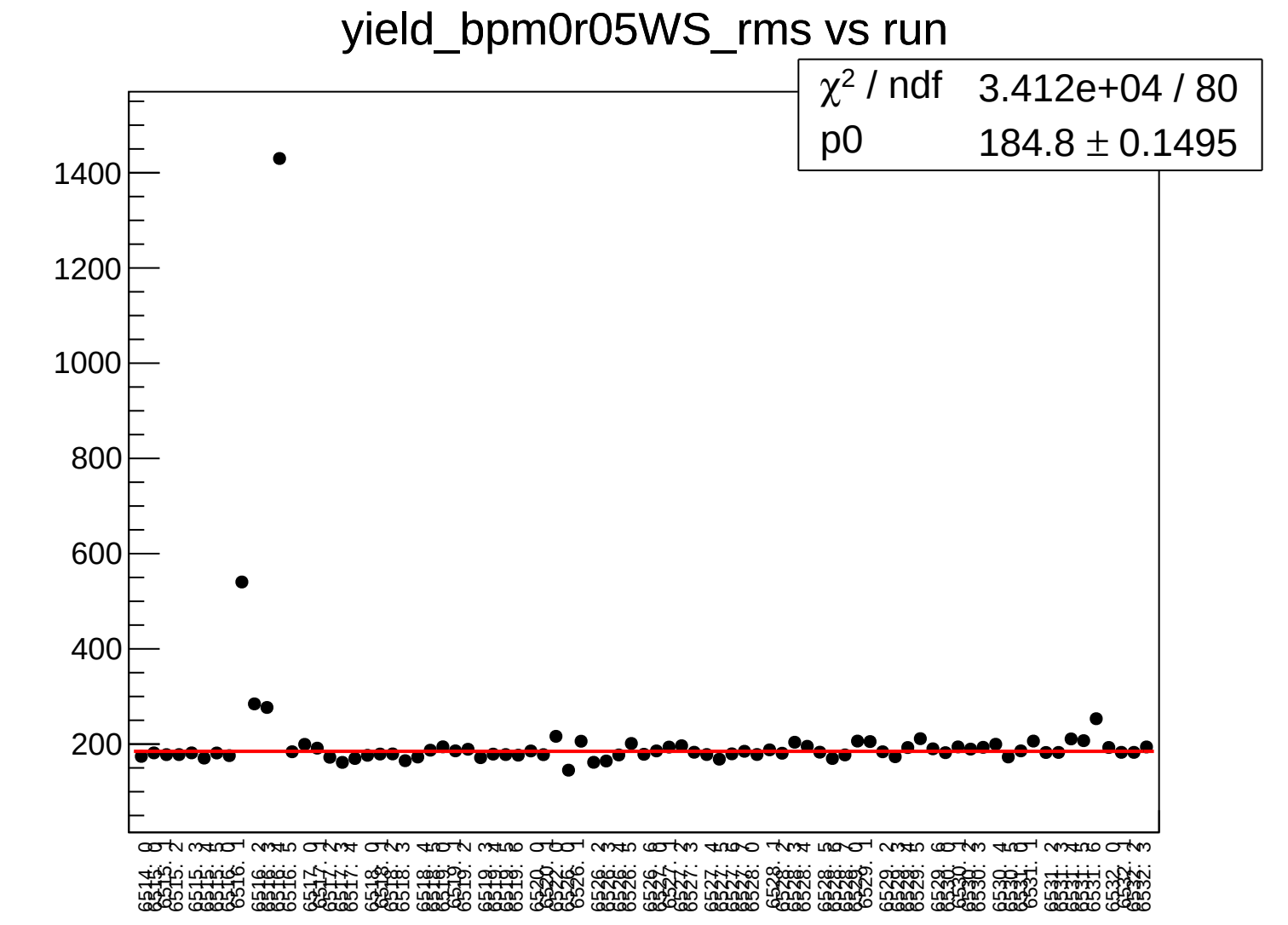

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 3.104e+06 / 80
p0 1.44e+05 ± 0.242
144
143
142
141
140
139
pull
Entries 81
Mean −14.16
Std Dev 0
200
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600

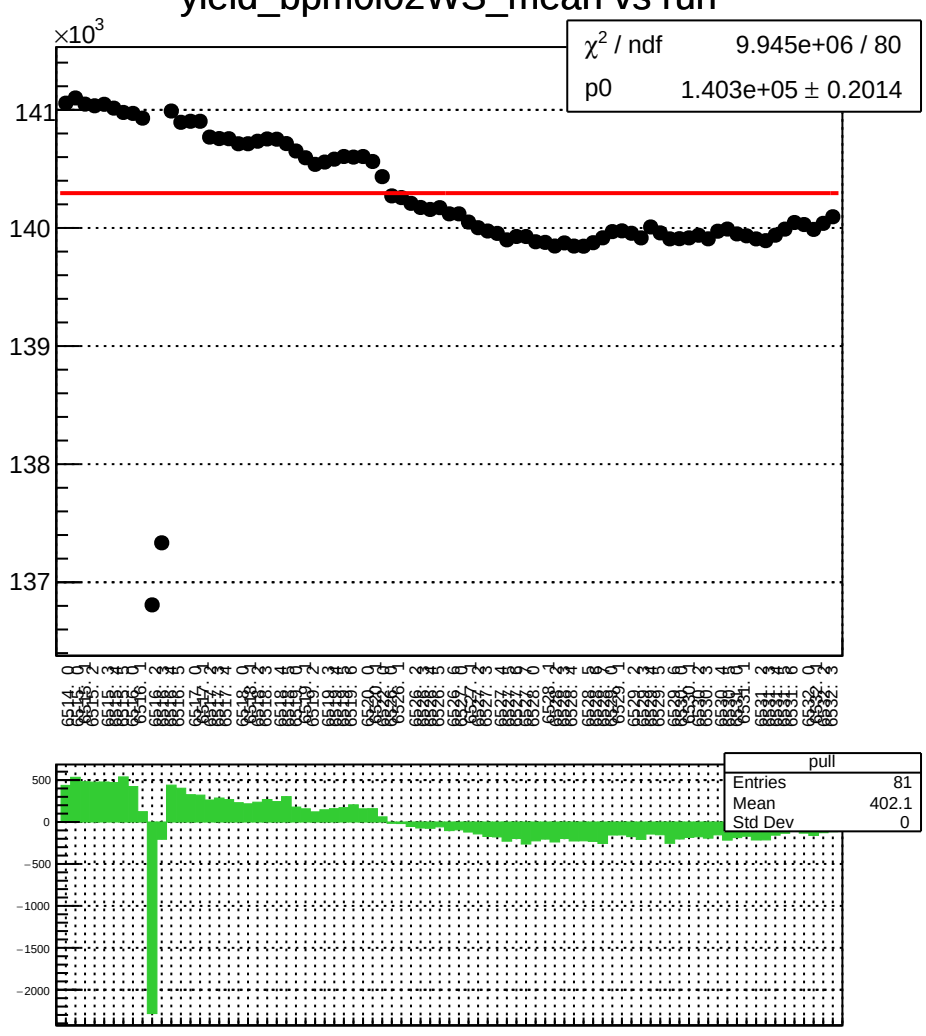

pull1D
Entries 81
Mean 0.4457
Std Dev 3.984
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

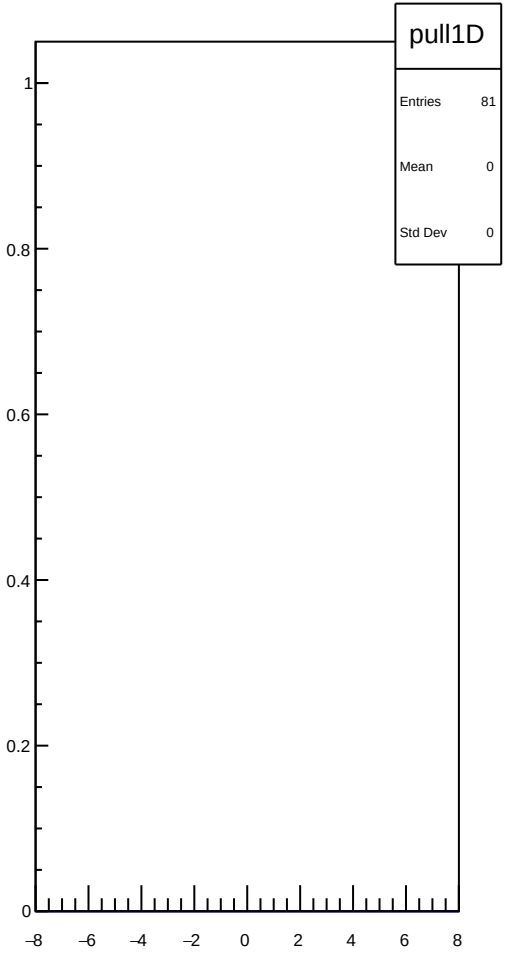

yield_bpm0r03WS_rms vs run
χ² / ndf 6.324e+04 / 80
p0 209.4 ± 0.1711
1600
1400
1200
1000
800
600
400
200

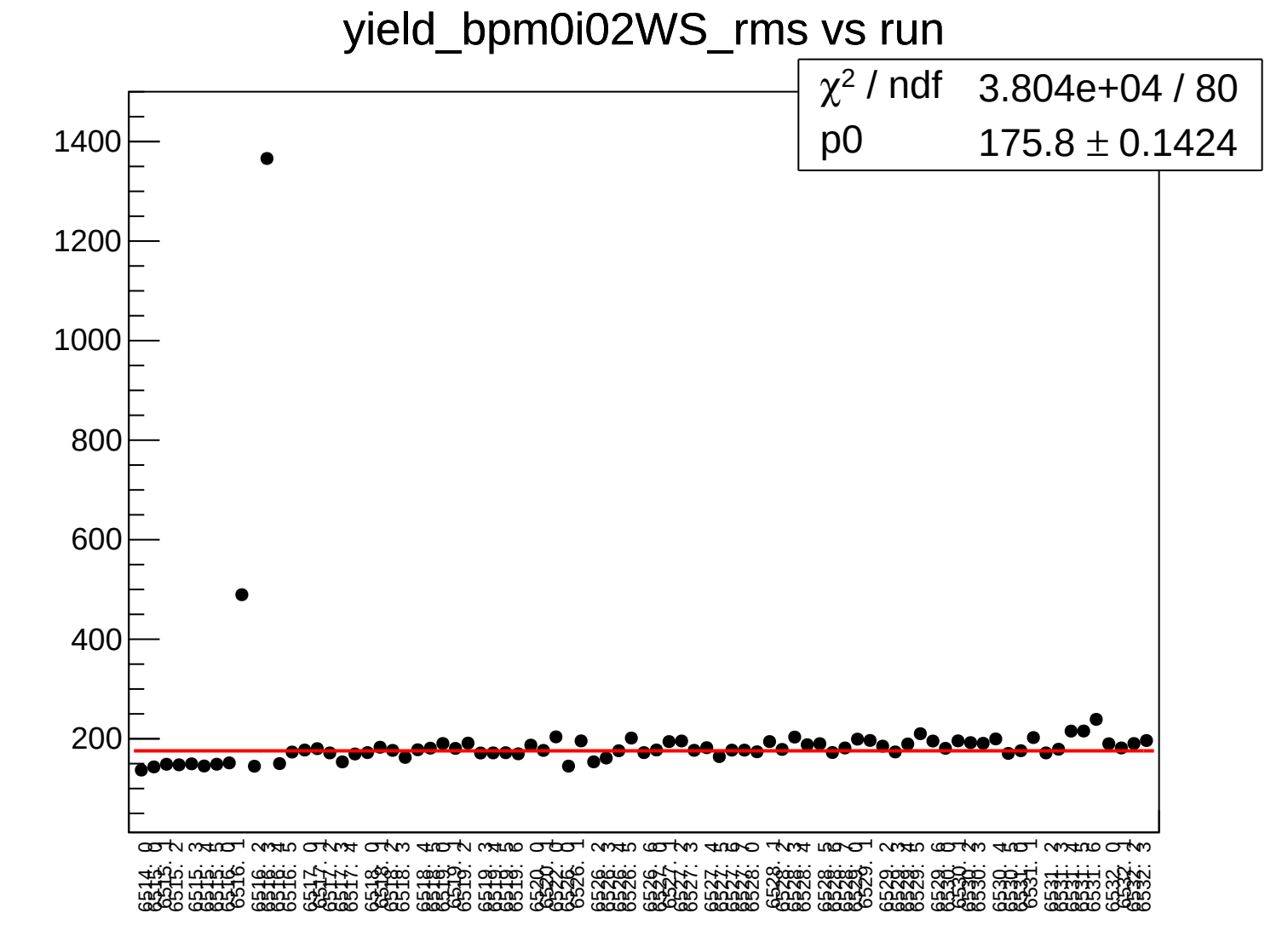

yield_bpm0r05WS_mean vs run
×10^3
χ² / ndf 5.41e+06 / 80
p0 1.355e+05 ± 0.2115
136
135
134
133
132
131
pull
Entries 81
Mean −7.635
Std Dev 0
200
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600

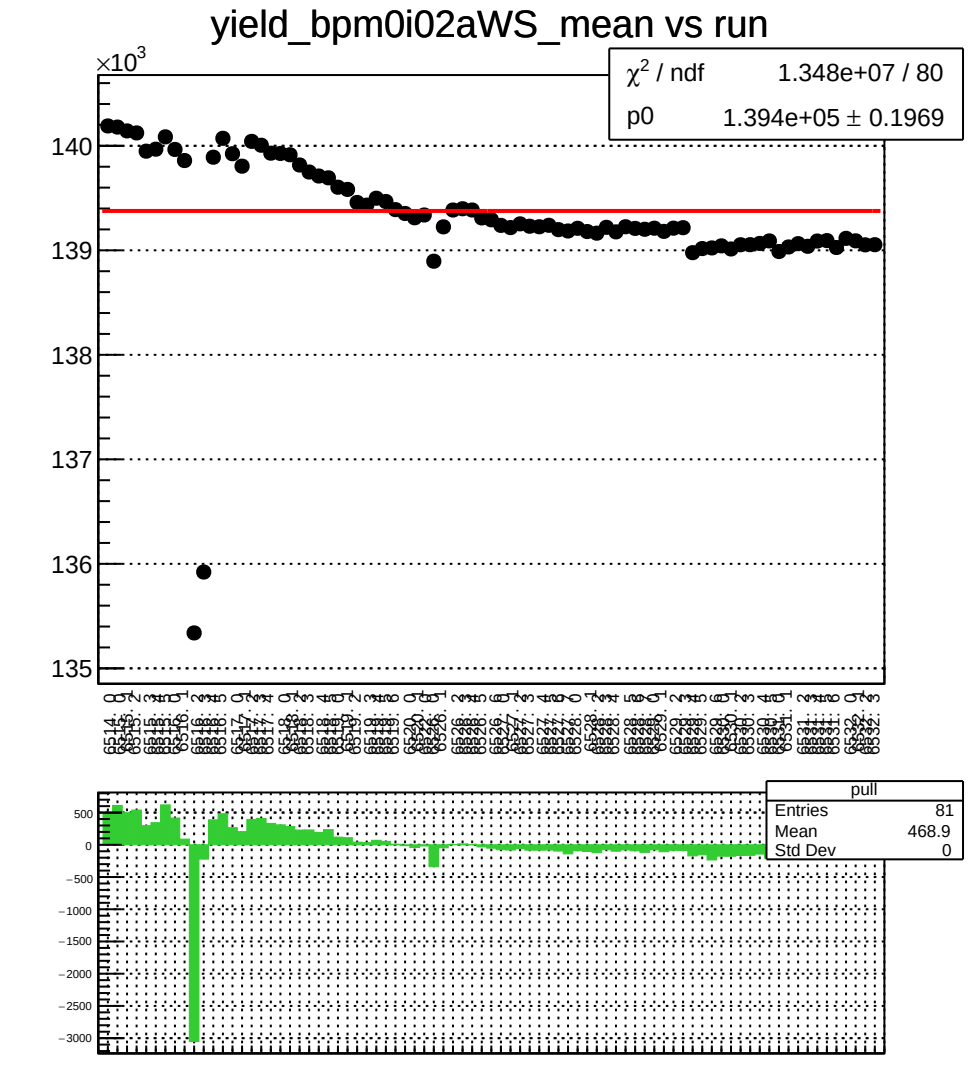

pull1D
Entries 81
Mean 0.7983
Std Dev 4.364
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

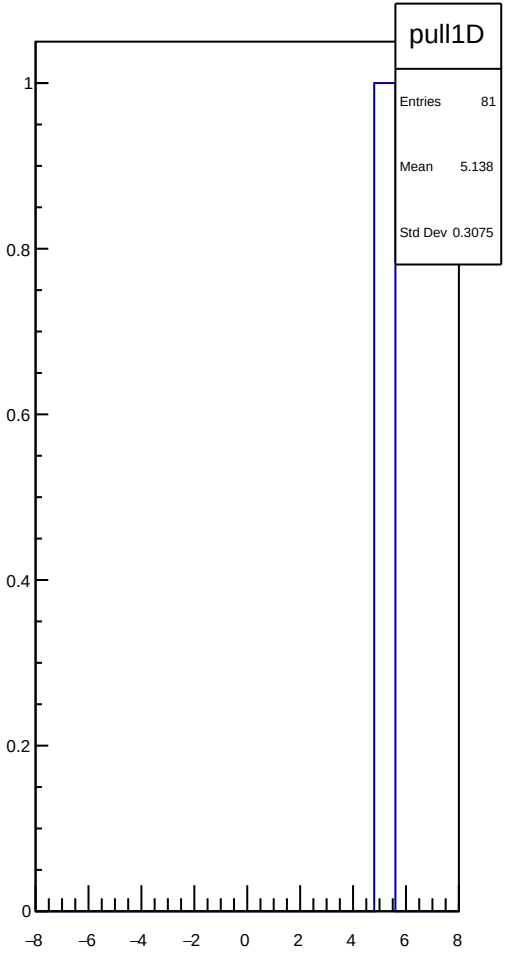

yield_bpm0r05WS_rms vs run
χ² / ndf 3.412e+04 / 80
p0 184.8 ± 0.1495
1400
1200
1000
800
600
400
200

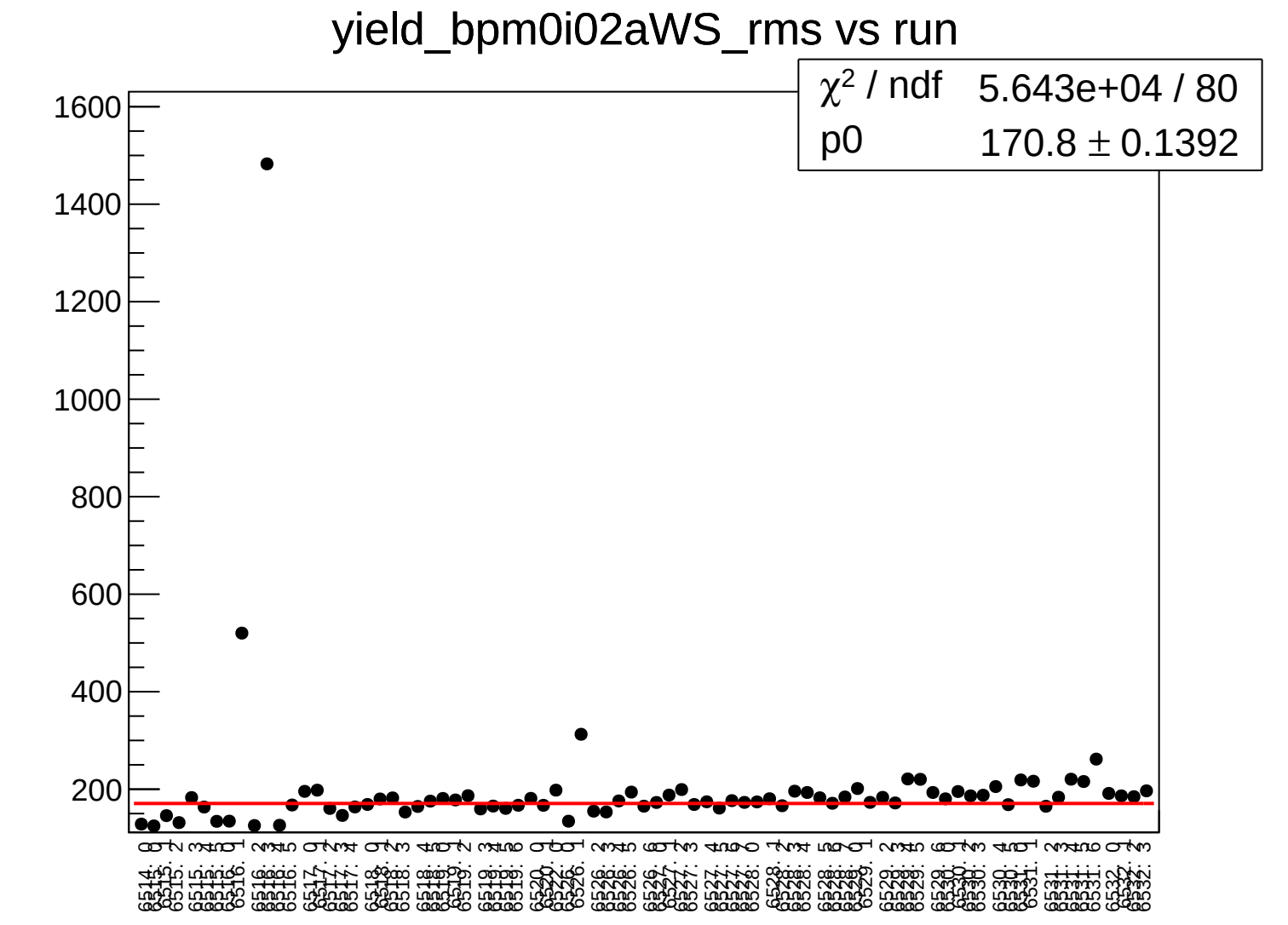

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 9.945e+06 / 80
p0 1.403e+05 ± 0.2014
141
140
139
138
137
pull
Entries 81
Mean 402.1
Std Dev 0
500
0
−500
−1000
−1500
−2000

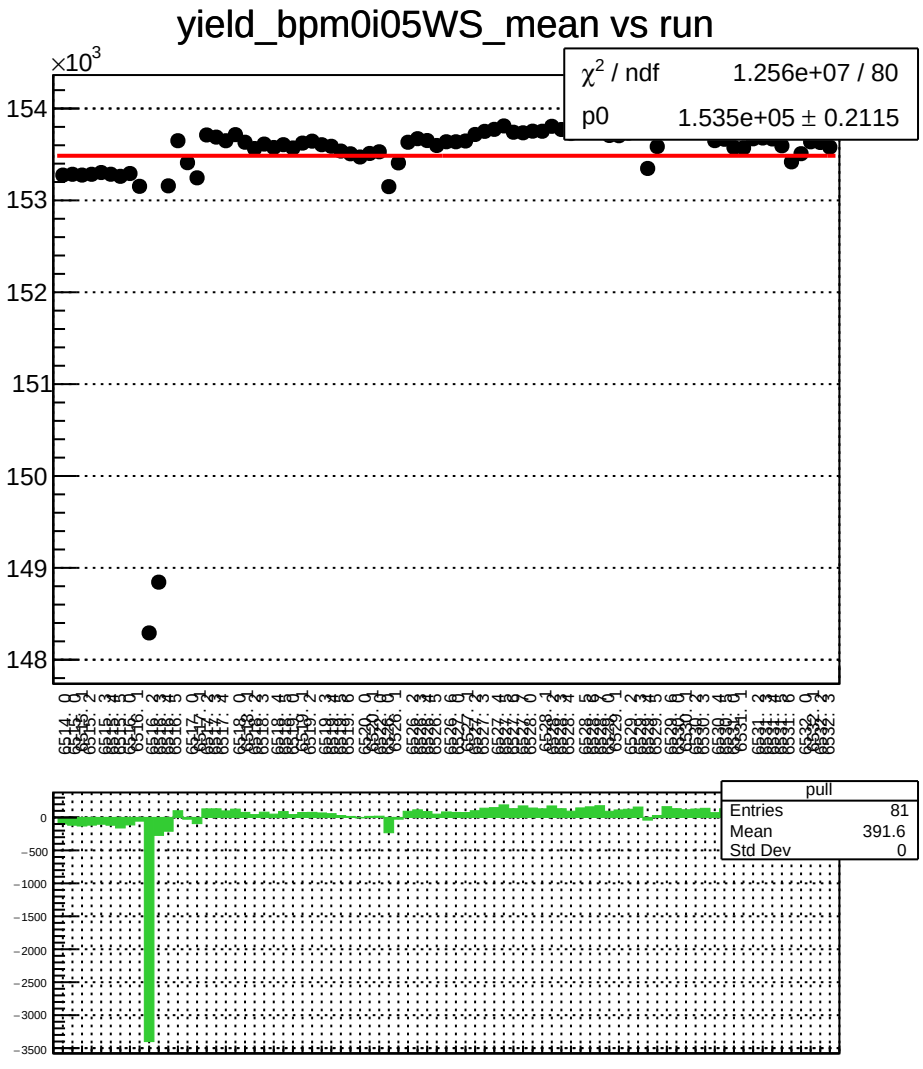

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

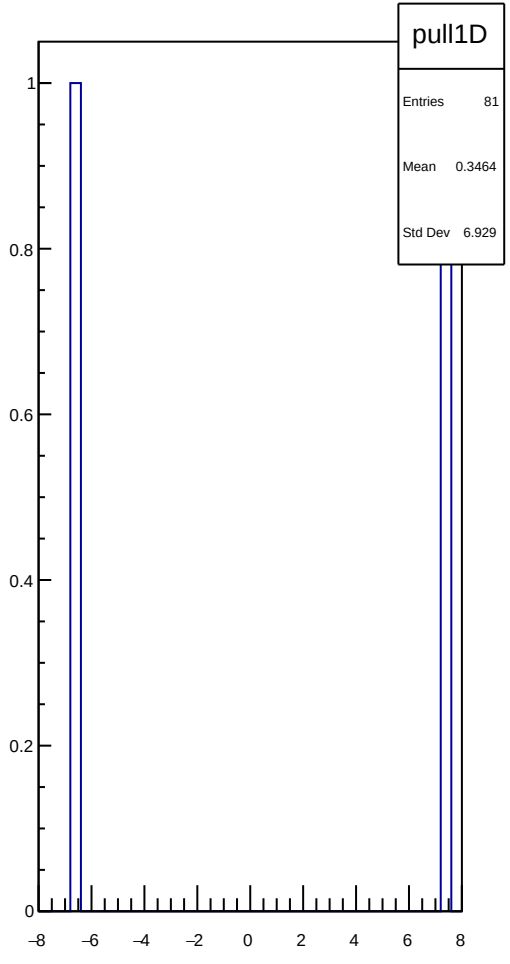

yield_bpm0i02WS_rms vs run
χ² / ndf 3.804e+04 / 80
p0 175.8 ± 0.1424
1400
1200
1000
800
600
400
200

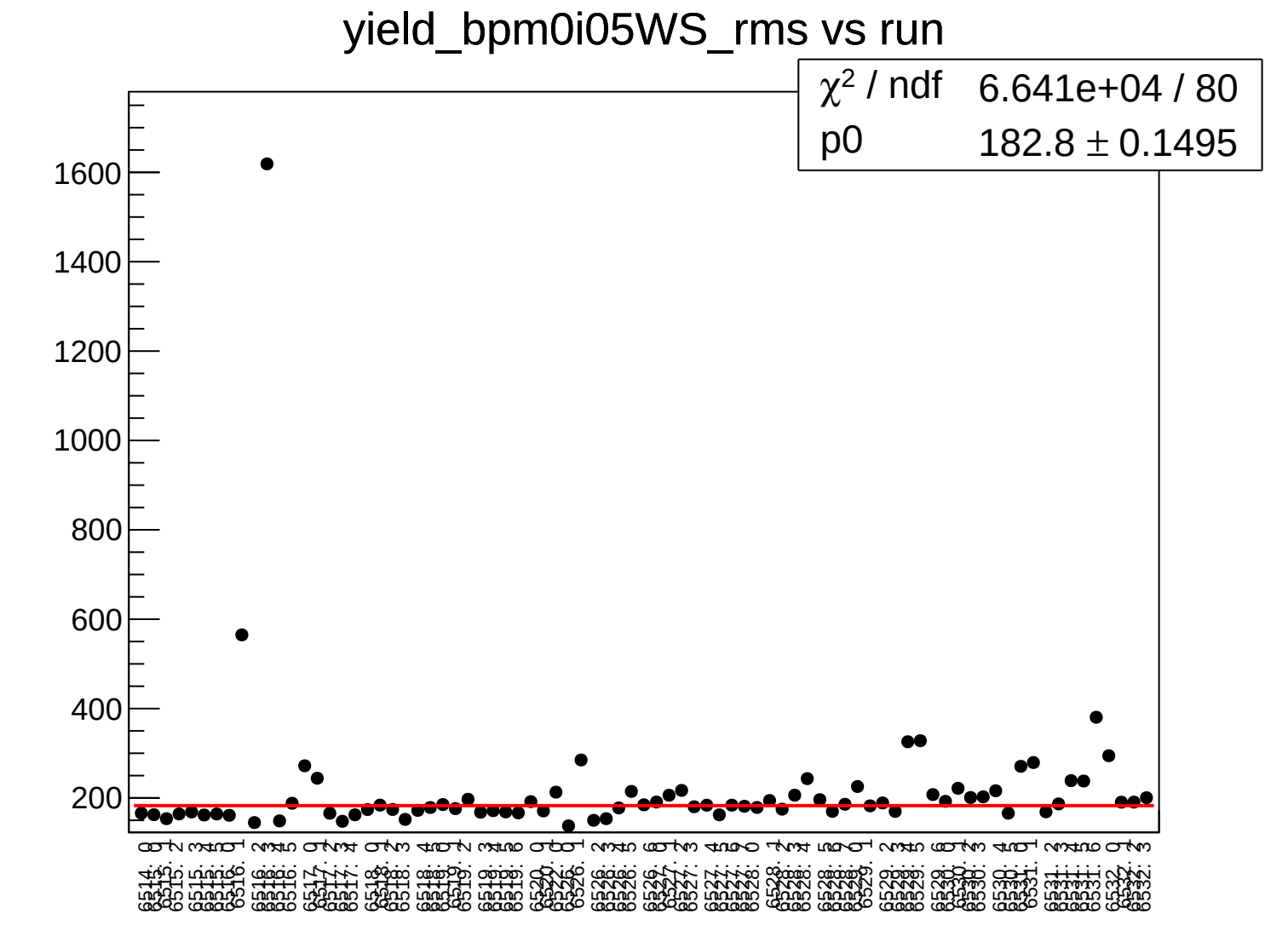

yield_bpm0i02aWS_mean vs run
×10^3
χ^2 / ndf 1.348e+07 / 80
p0 1.394e+05 ± 0.1969
140
139
138
137
136
135
pull
Entries 81
Mean 468.9
Std Dev 0
500
0
−500
−1000
−1500
−2000
−2500
−3000

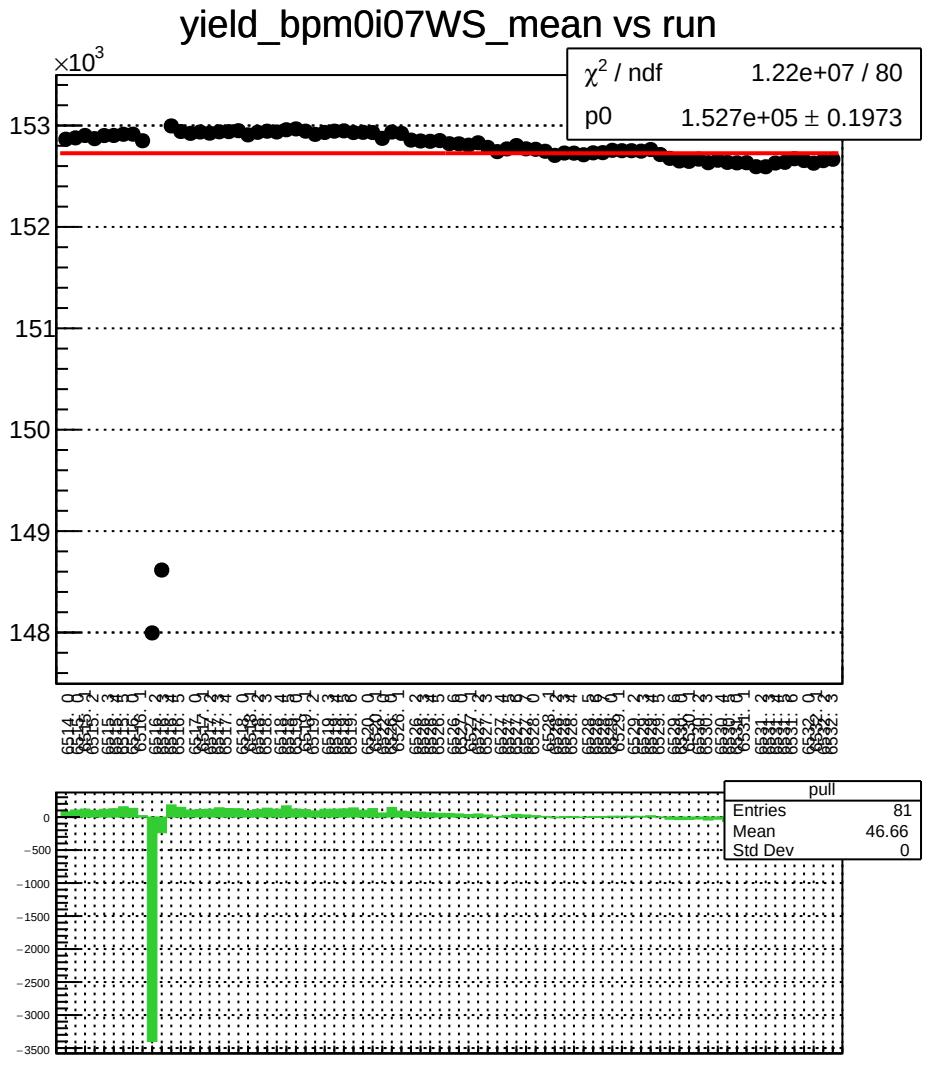

pull1D
Entries 81
Mean 5.138
Std Dev 0.3075
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

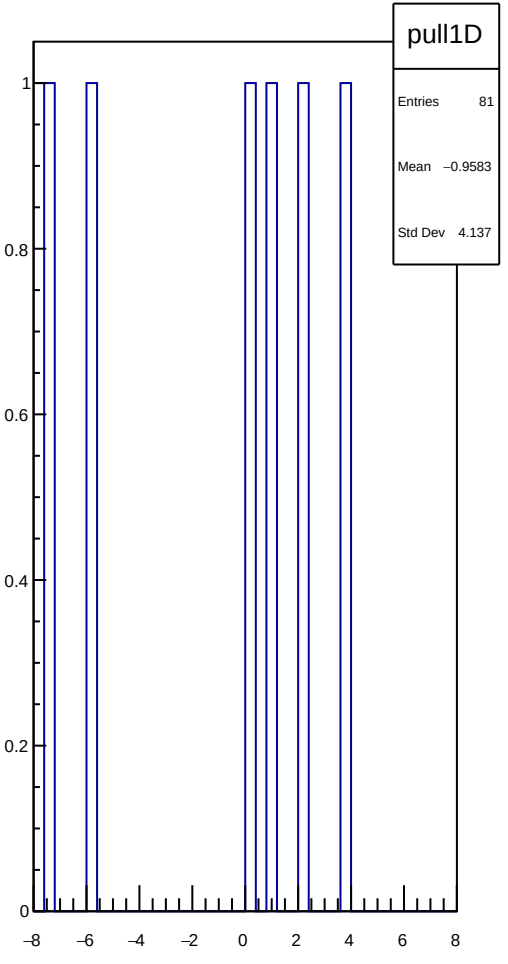

yield_bpm0i02aWS_rms vs run
χ² / ndf 5.643e+04 / 80
p0 170.8 ± 0.1392
1600
1400
1200
1000
800
600
400
200

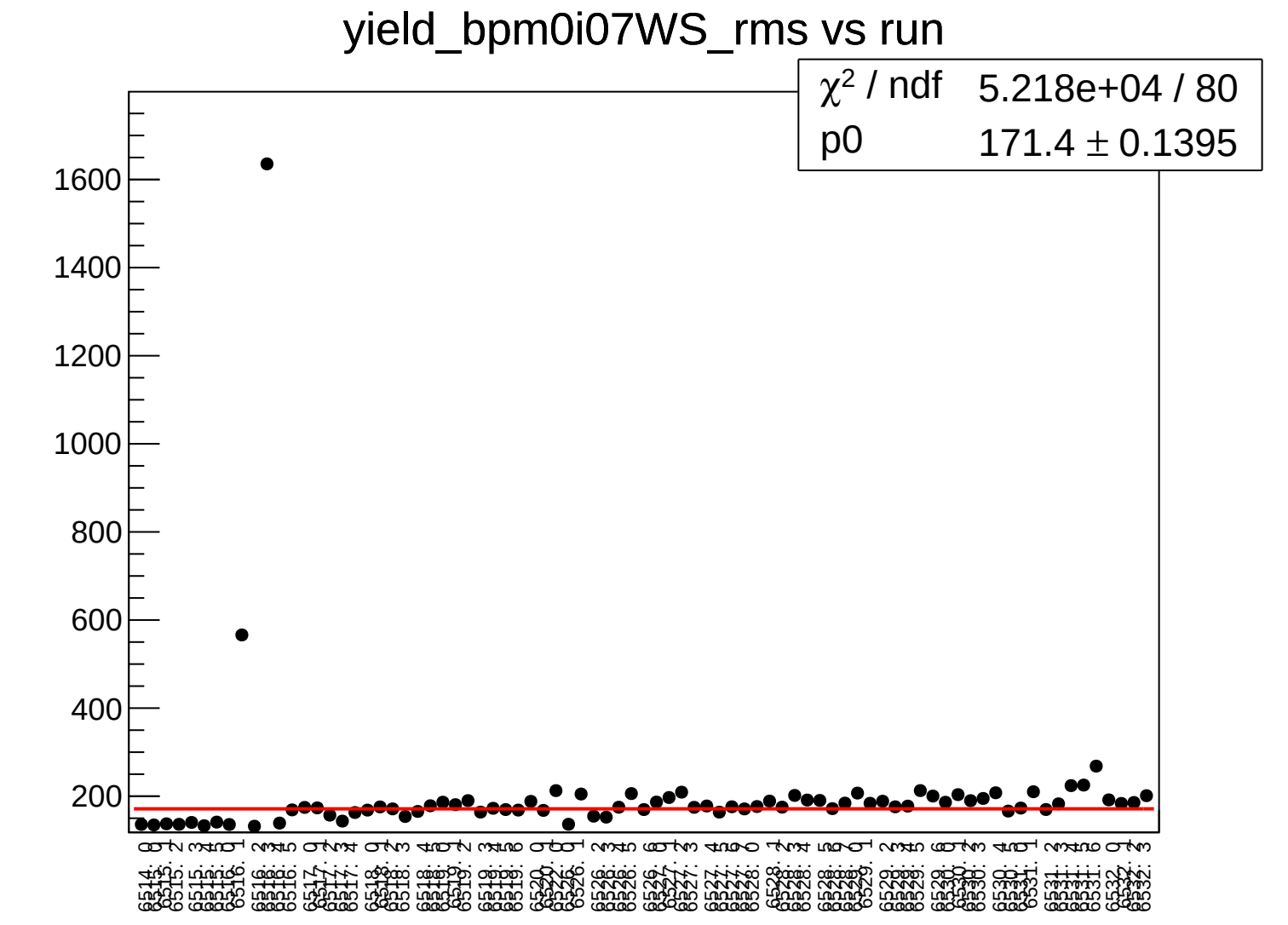

yield_bpm0i05WS_mean vs run
×10^3
χ^2 / ndf 1.256e+07 / 80
p0 1.535e+05 ± 0.2115
154
153
152
151
150
149
148
pull
Entries 81
Mean 391.6
Std Dev 0
0
−500
−1000
−1500
−2000
−2500
−3000
−3500

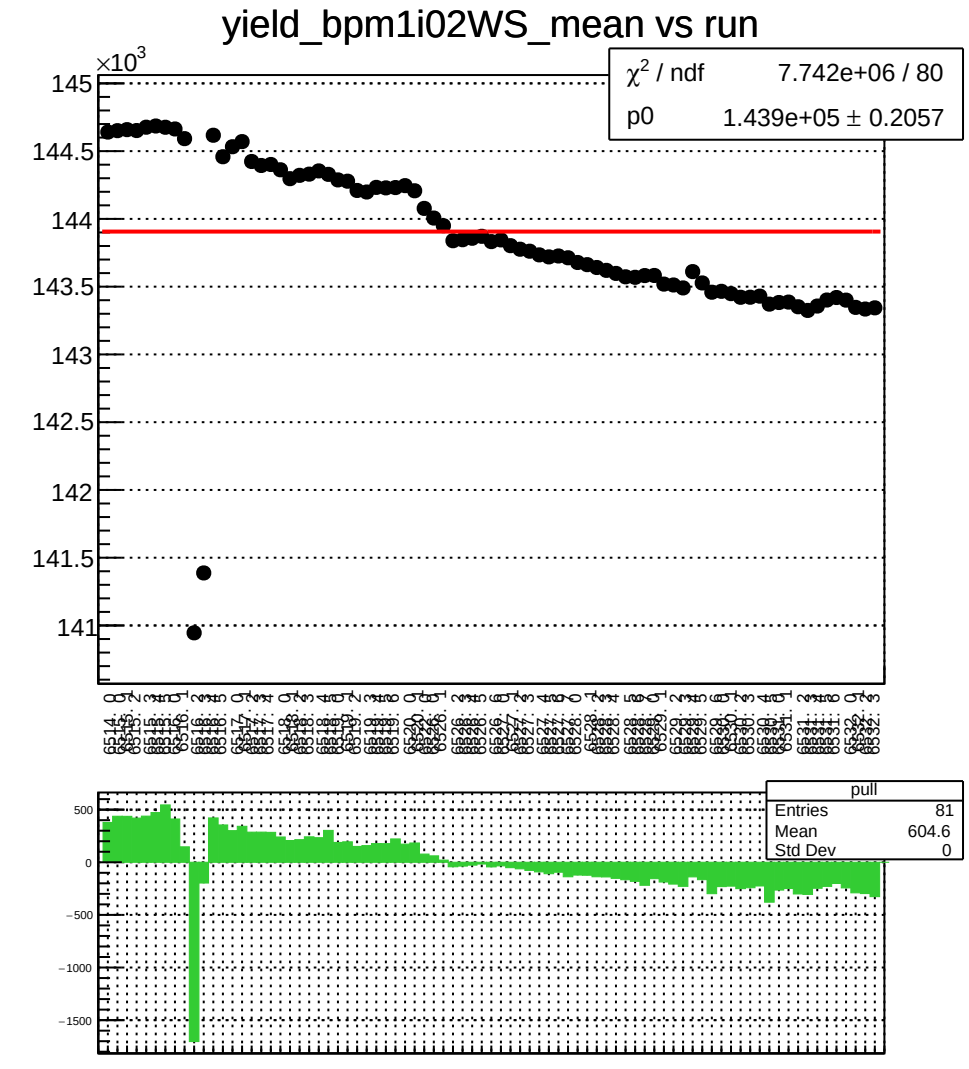

pull1D
Entries 81
Mean 0.3464
Std Dev 6.929
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

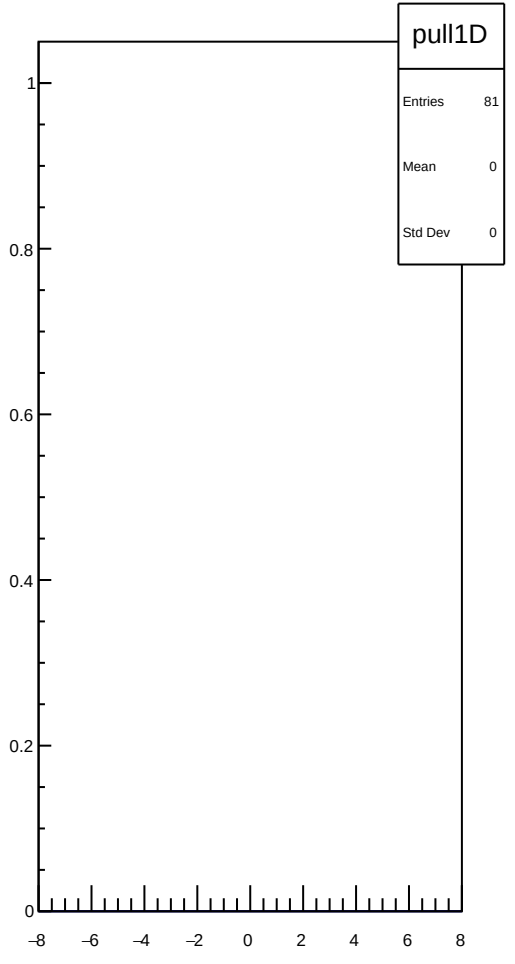

yield_bpm0i05WS_rms vs run
χ² / ndf 6.641e+04 / 80
p0 182.8 ± 0.1495
1600
1400
1200
1000
800
600
400
200

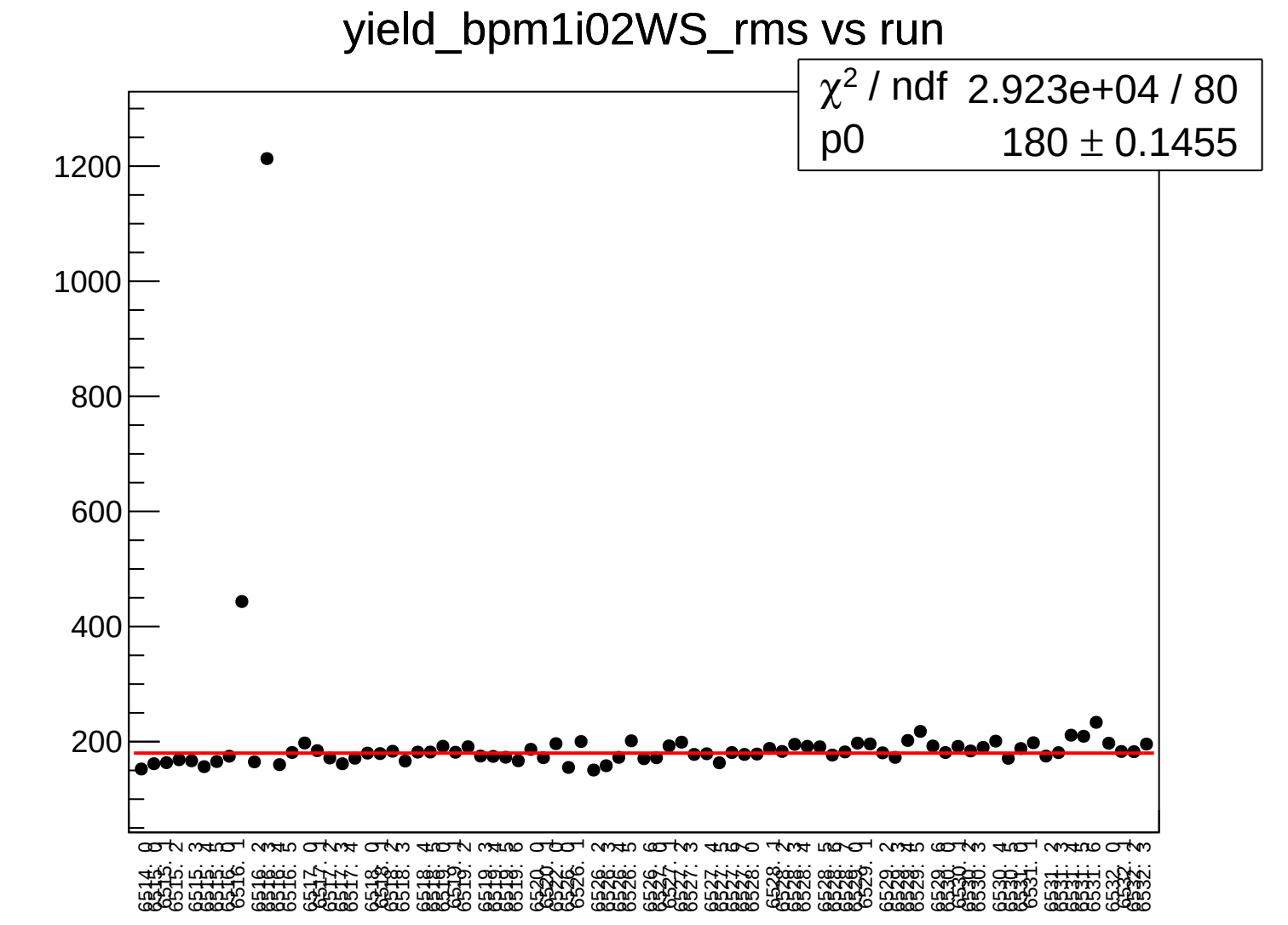

yield_bpm0i07WS_mean vs run
×10^3
χ^2 / ndf 1.22e+07 / 80
p0 1.527e+05 ± 0.1973
153
152
151
150
149
148
pull
Entries 81
Mean 46.66
Std Dev 0
0
−500
−1000
−1500
−2000
−2500
−3000
−3500

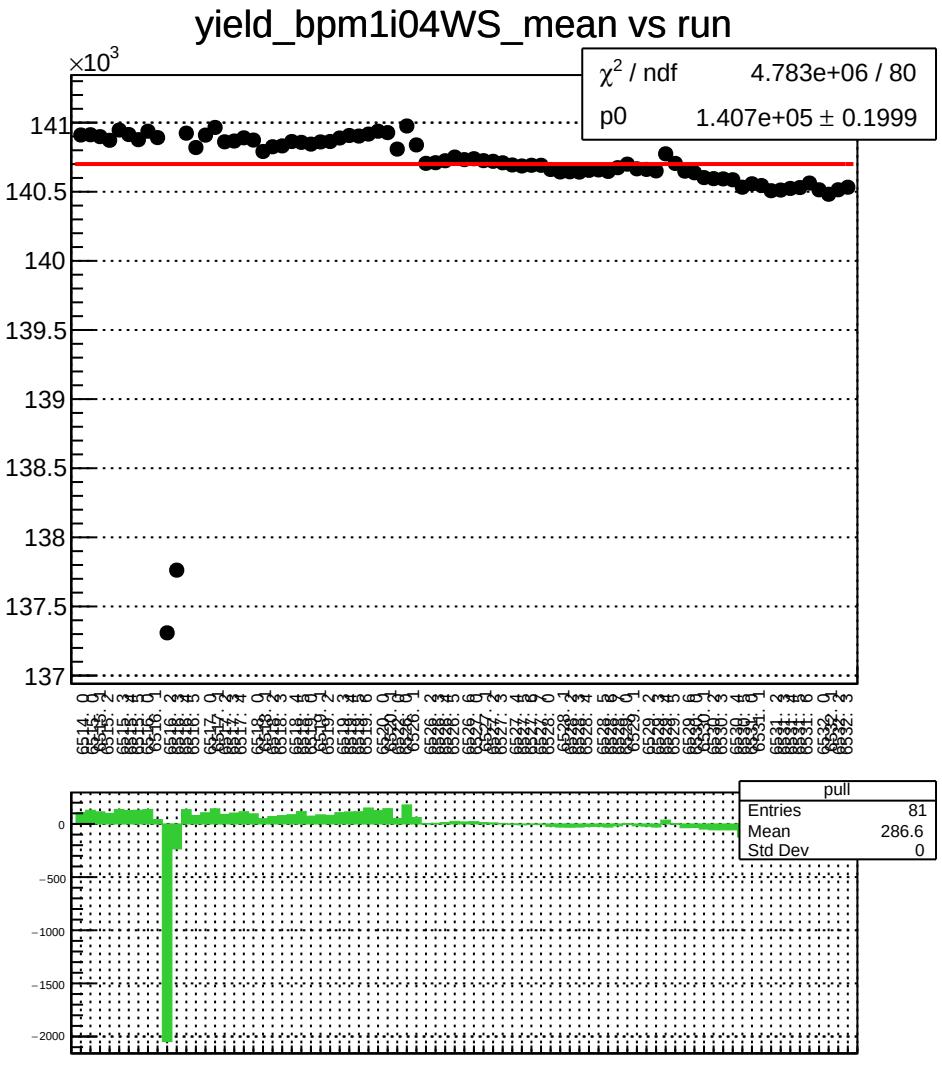

pull1D
Entries 81
Mean −0.9583
Std Dev 4.137
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

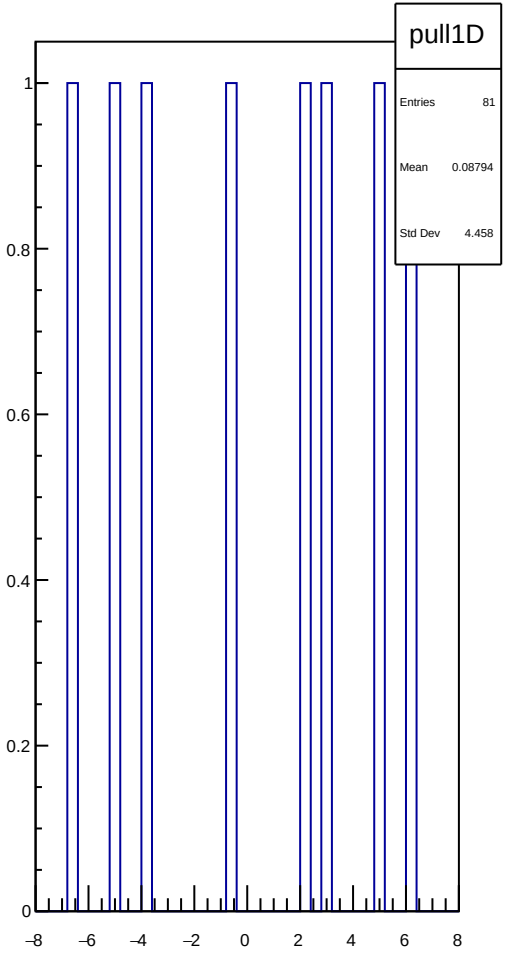

yield_bpm0i07WS_rms vs run
χ² / ndf 5.218e+04 / 80
p0 171.4 ± 0.1395
1600
1400
1200
1000
800
600
400
200

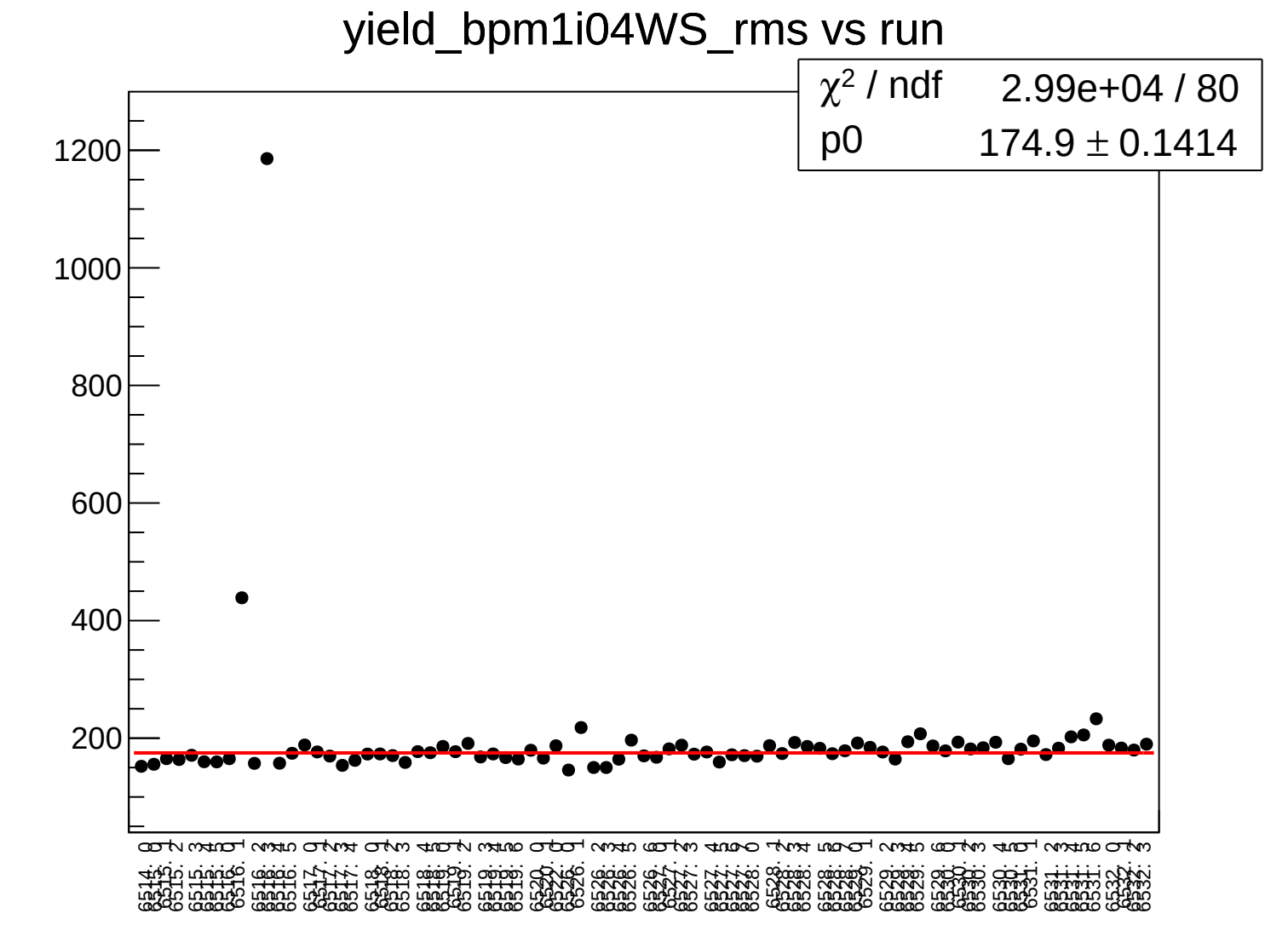

yield_bpm1i02WS_mean vs run
χ^2 / ndf 7.742e+06 / 80
p0 1.439e+05 ± 0.2057
×10^3
145
144.5
144
143.5
143
142.5
142
141.5
141
pull
Entries 81
Mean 604.6
Std Dev 0
500
0
−500
−1000
−1500

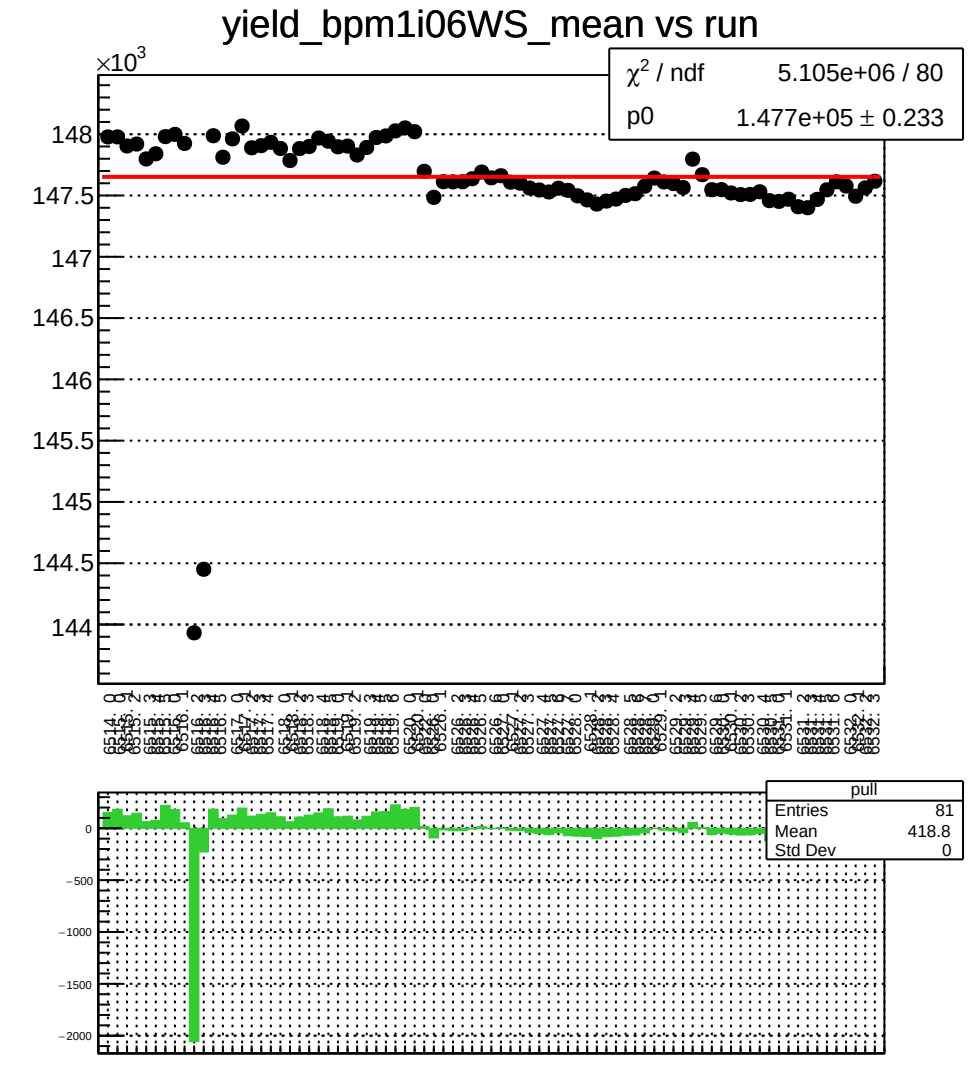

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

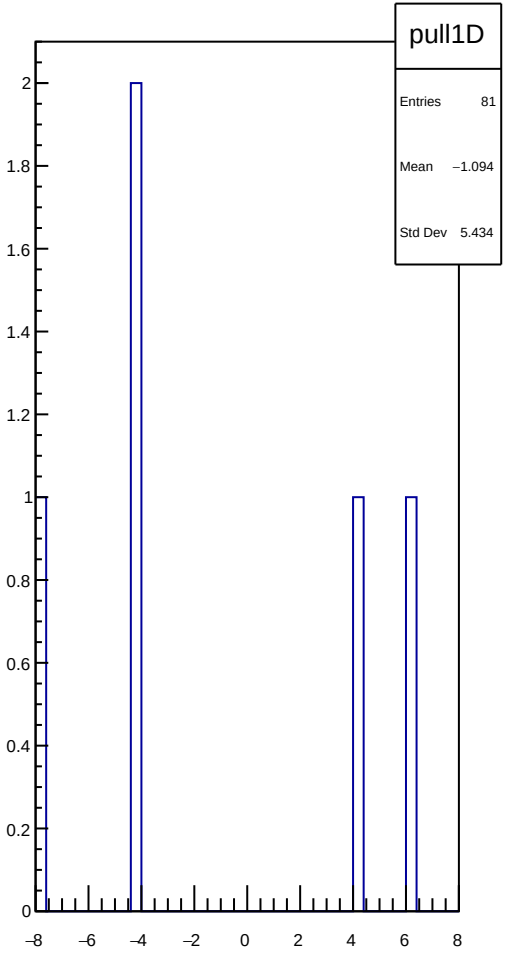

yield_bpm1i02WS_rms vs run
χ² / ndf 2.923e+04 / 80
p0 180 ± 0.1455
1200
1000
800
600
400
200

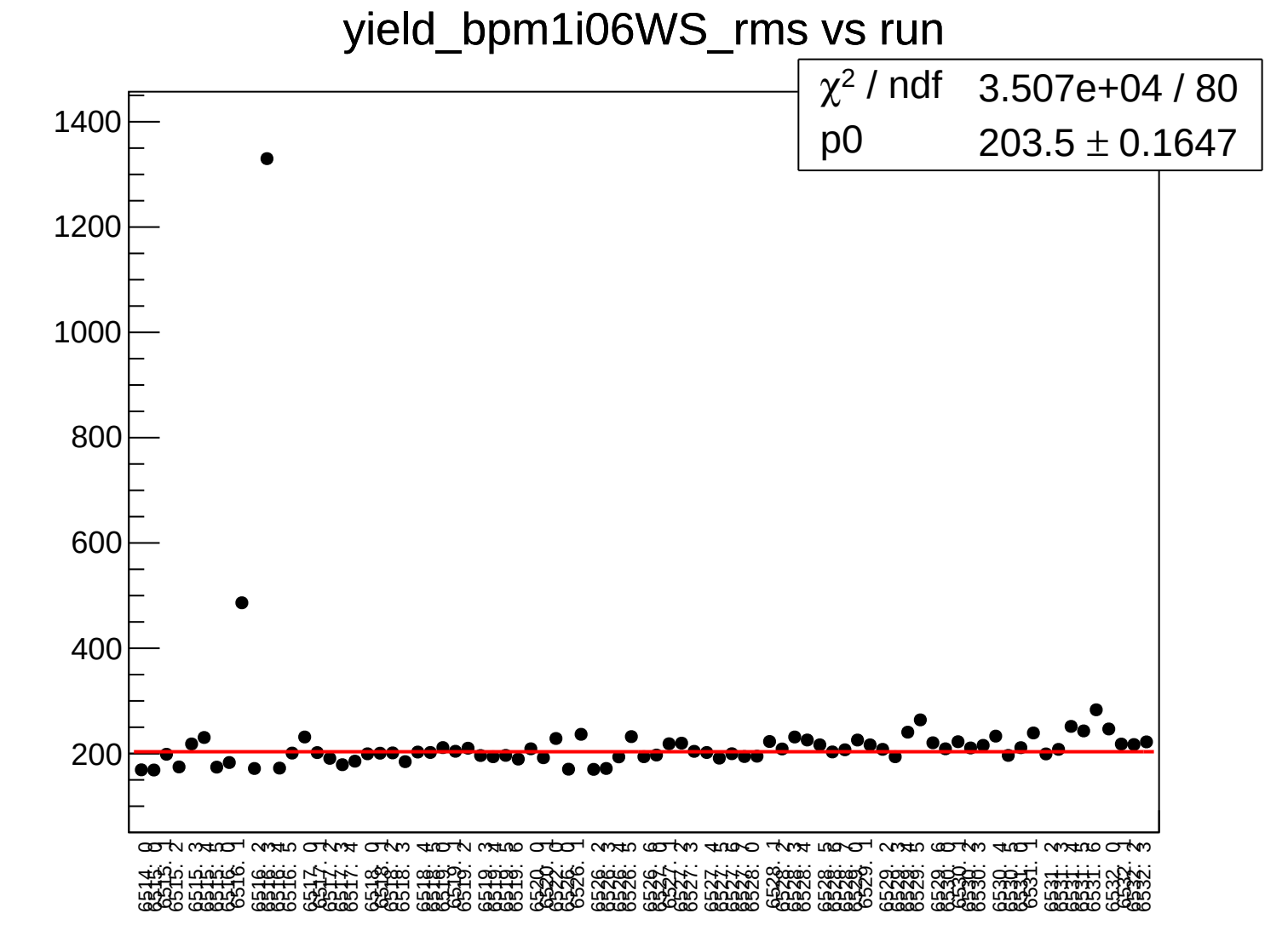

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 4.783e+06 / 80
p0 1.407e+05 ± 0.1999
141
140.5
140
139.5
139
138.5
138
137.5
137
pull
Entries 81
Mean 286.6
Std Dev 0
0
−500
−1000
−1500
−2000

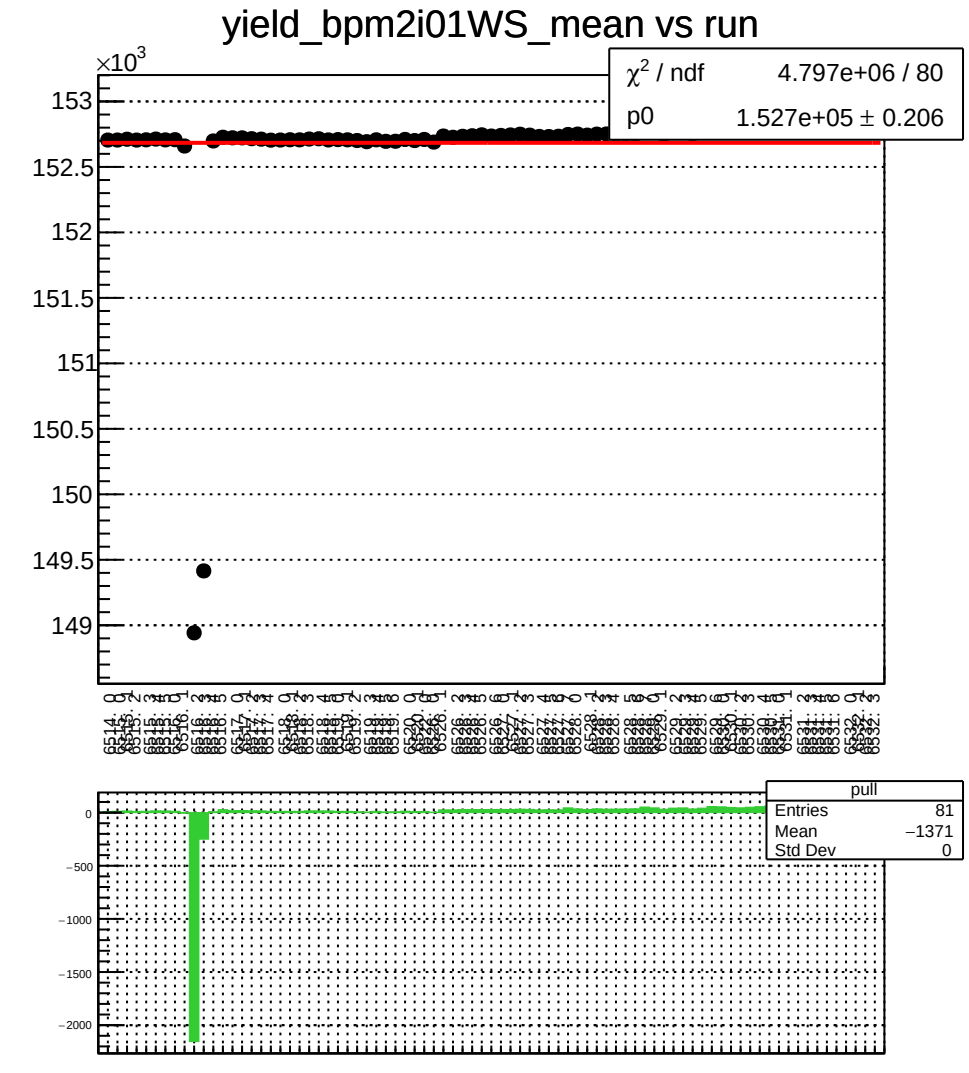

pull1D
Entries 81
Mean 0.08794
Std Dev 4.458
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

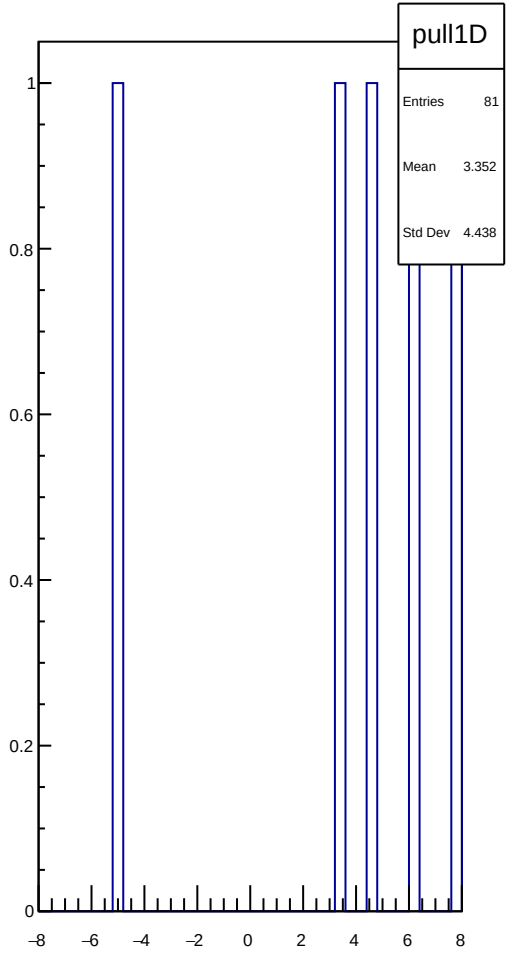

yield_bpm1i04WS_rms vs run
χ² / ndf 2.99e+04 / 80
p0 174.9 ± 0.1414
1200
1000
800
600
400
200

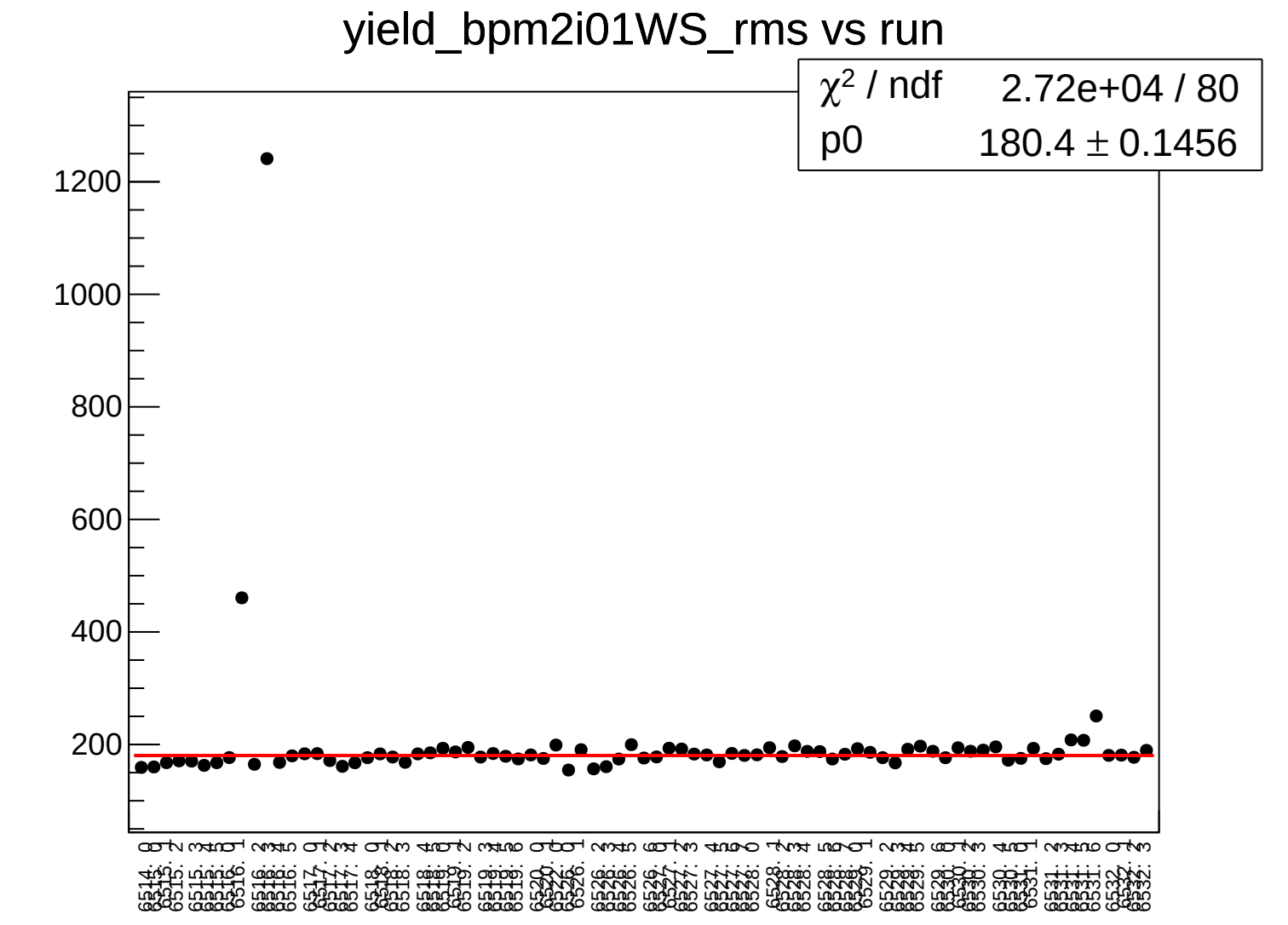

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 5.105e+06 / 80
p0 1.477e+05 ± 0.233
148
147.5
147
146.5
146
145.5
145
144.5
144
pull
Entries 81
Mean 418.8
Std Dev 0
0
−500
−1000
−1500
−2000

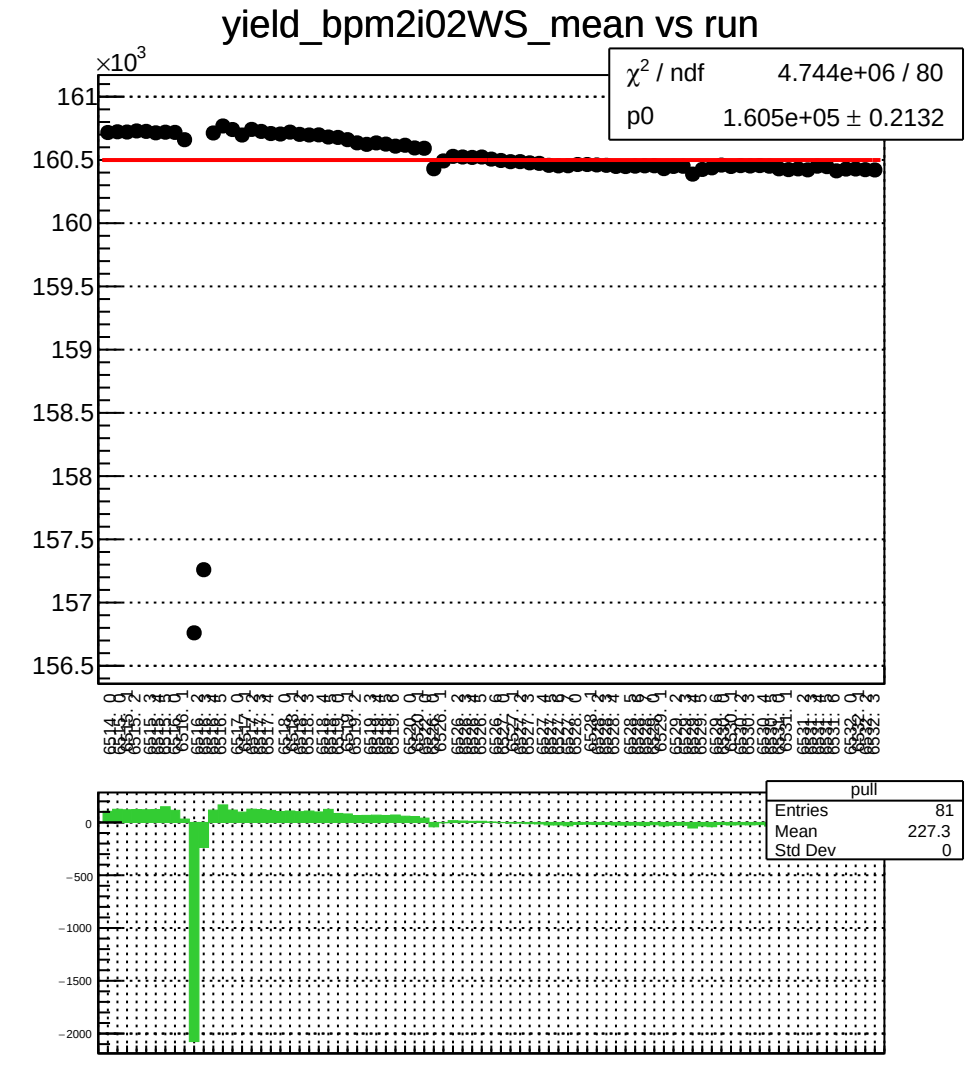

pull1D
Entries 81
Mean −1.094
Std Dev 5.434
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

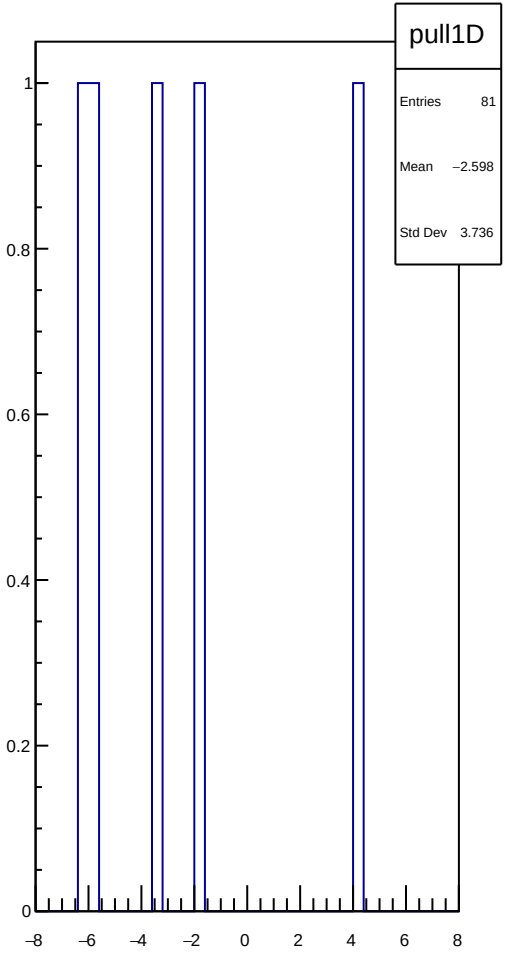

yield_bpm1i06WS_rms vs run
χ² / ndf 3.507e+04 / 80
p0 203.5 ± 0.1647
1400
1200
1000
800
600
400
200

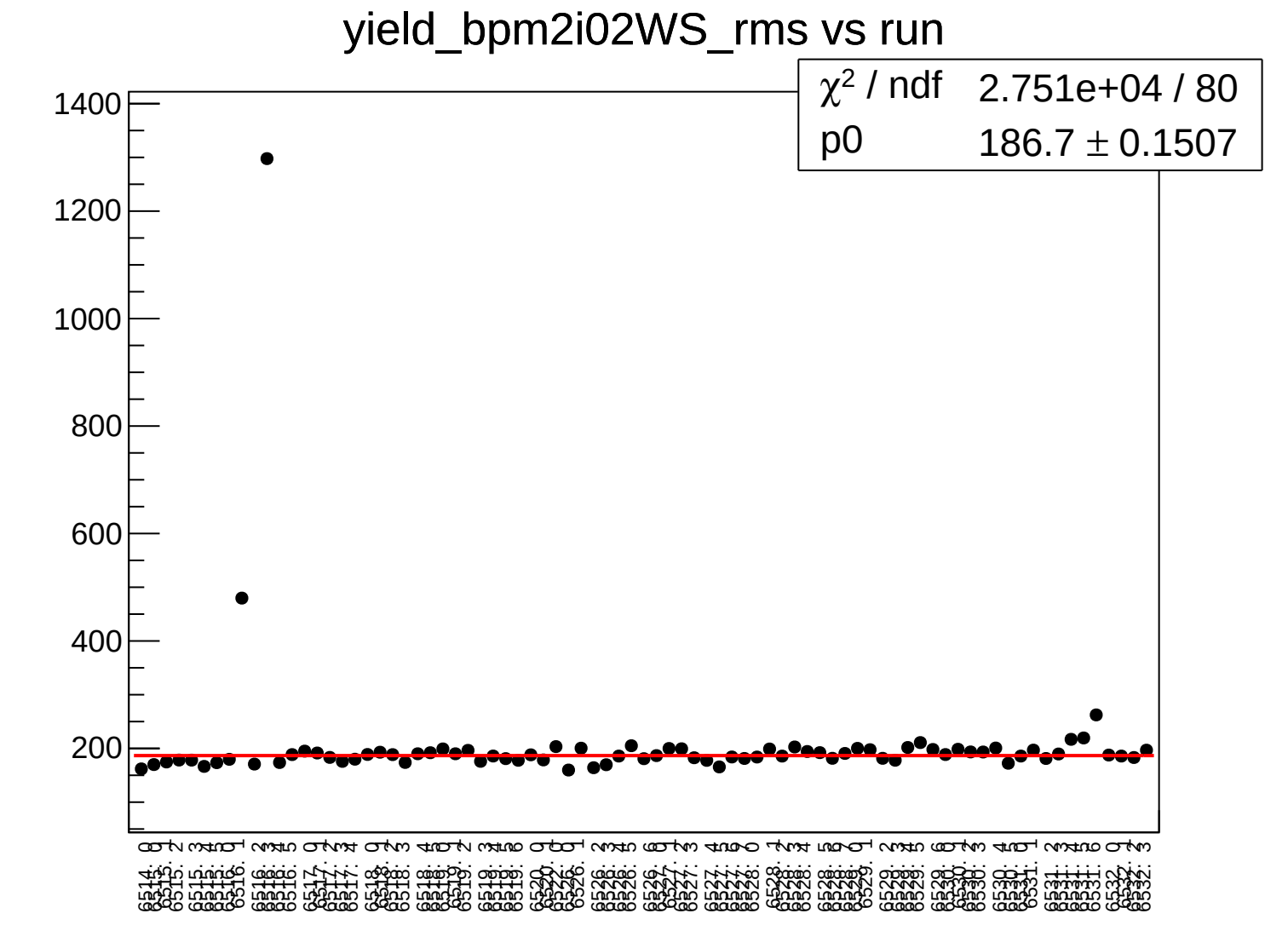

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 4.797e+06 / 80
p0 1.527e+05 ± 0.206
153
152.5
152
151.5
151
150.5
150
149.5
149
pull
Entries 81
Mean −1371
Std Dev 0
0
−500
−1000
−1500
−2000

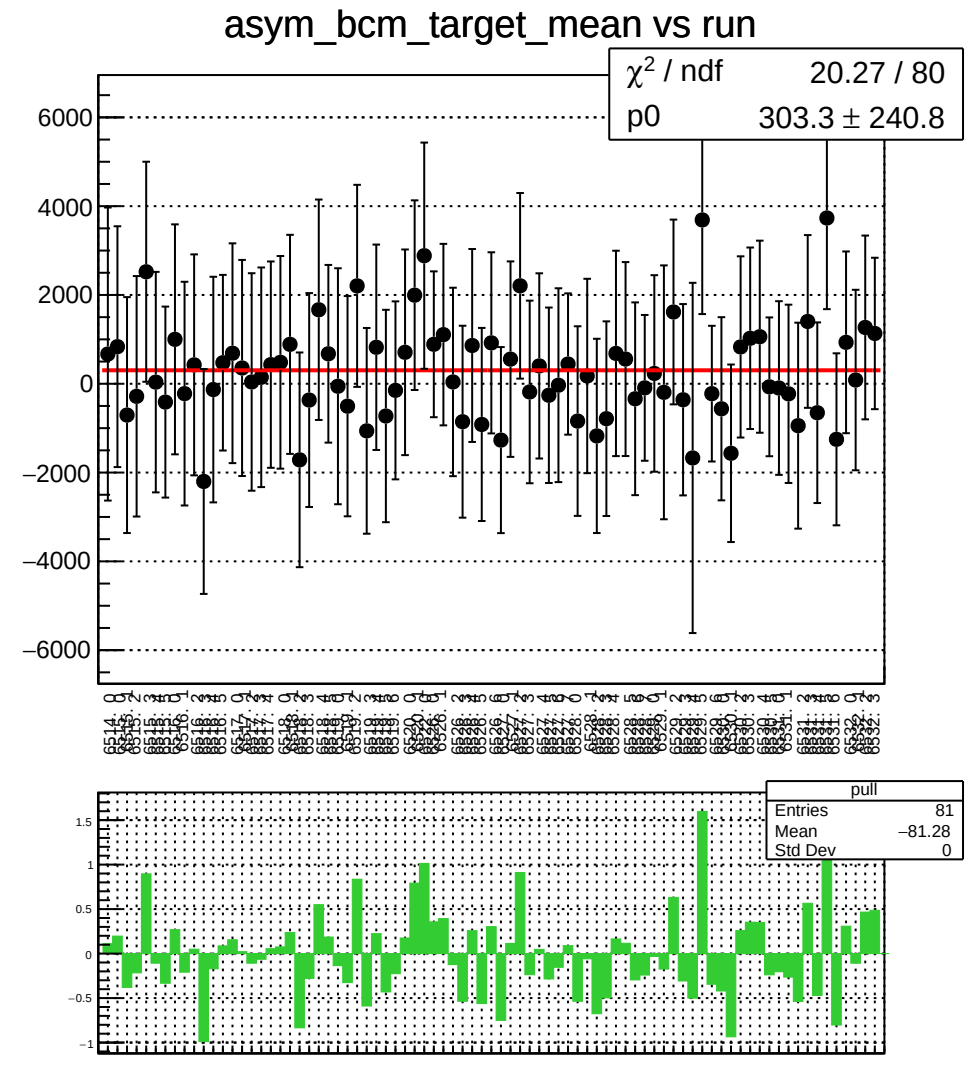

pull1D
Entries 81
Mean 3.352
Std Dev 4.438
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

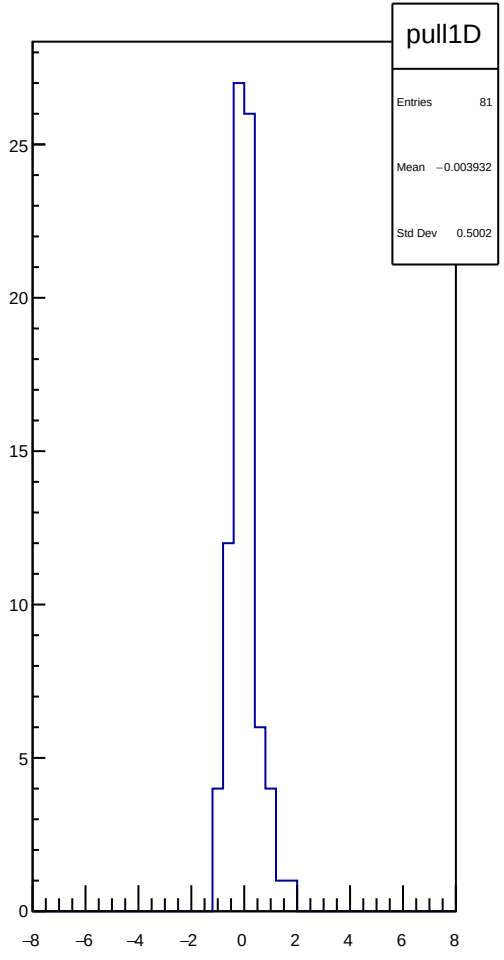

yield_bpm2i01WS_rms vs run
χ² / ndf 2.72e+04 / 80
p0 180.4 ± 0.1456
1200
1000
800
600
400
200

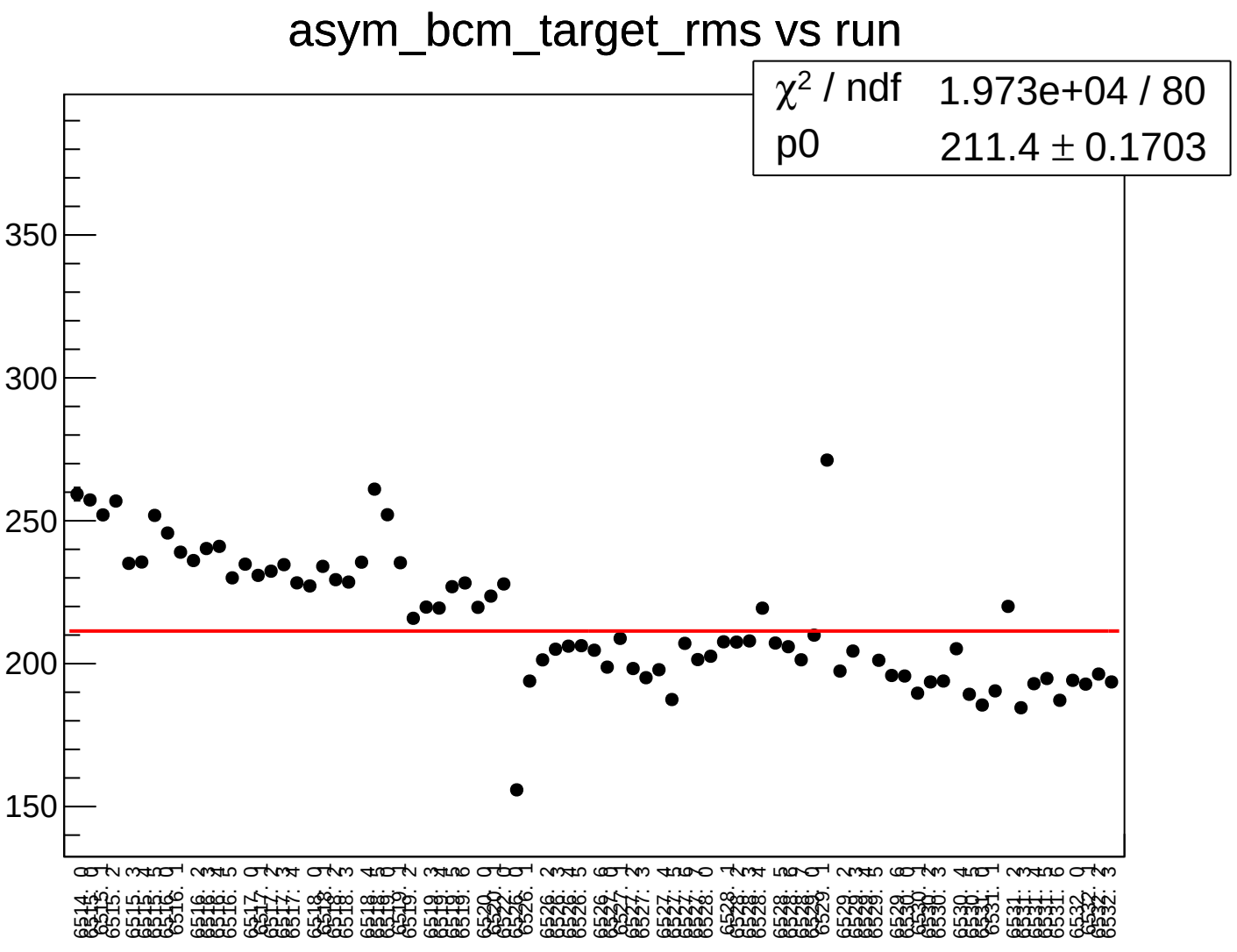

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 4.744e+06 / 80
p0 1.605e+05 ± 0.2132
161
160.5
160
159.5
159
158.5
158
157.5
157
156.5
pull
Entries 81
Mean 227.3
Std Dev 0
0
−500
−1000
−1500
−2000

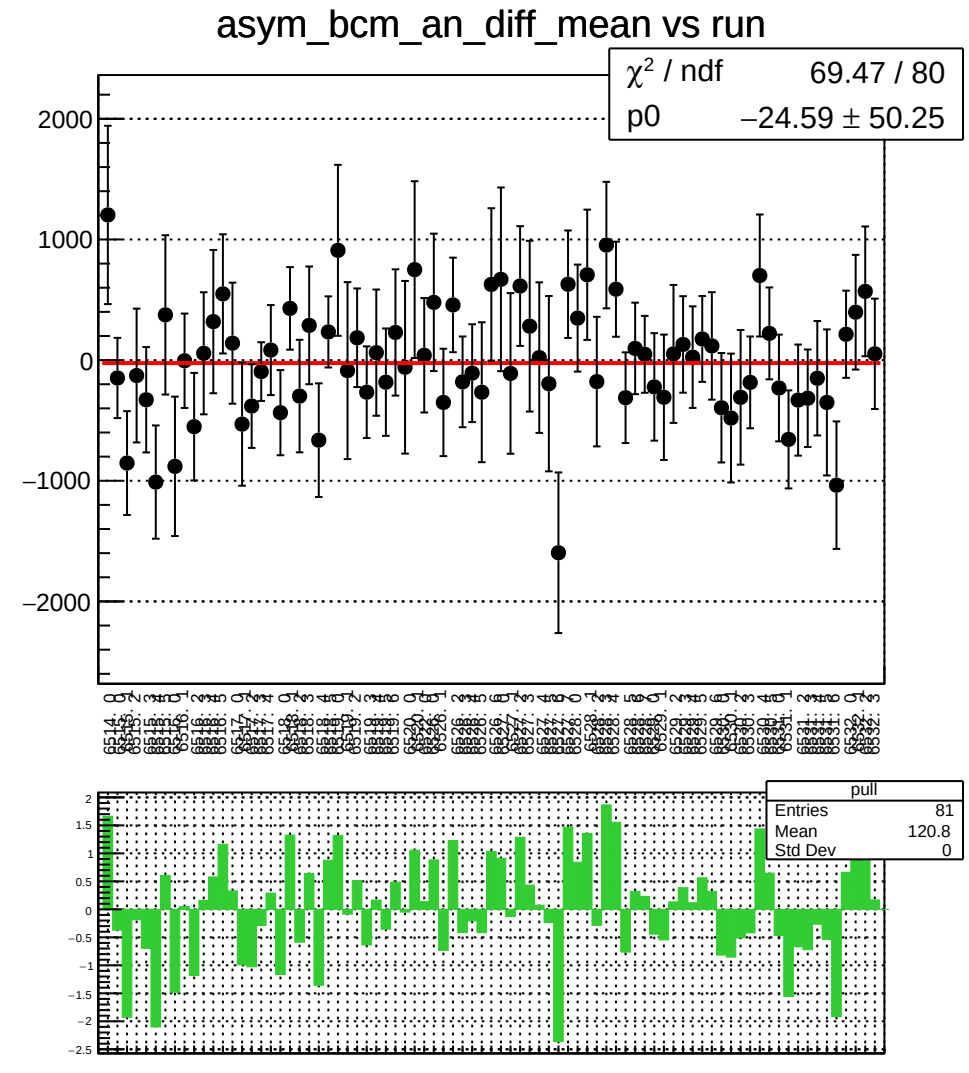

pull1D
Entries 81
Mean −2.598
Std Dev 3.736
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

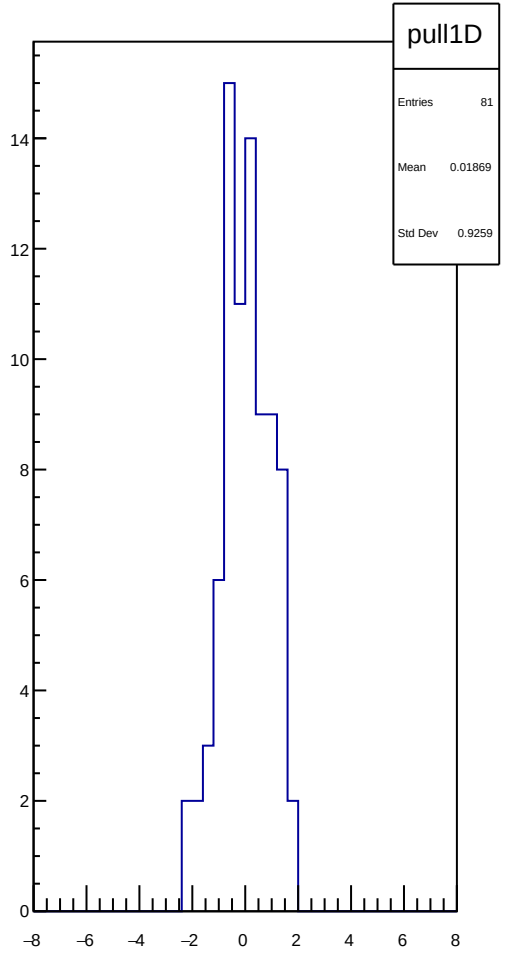

yield_bpm2i02WS_rms vs run
χ² / ndf 2.751e+04 / 80
p0 186.7 ± 0.1507
1400
1200
1000
800
600
400
200

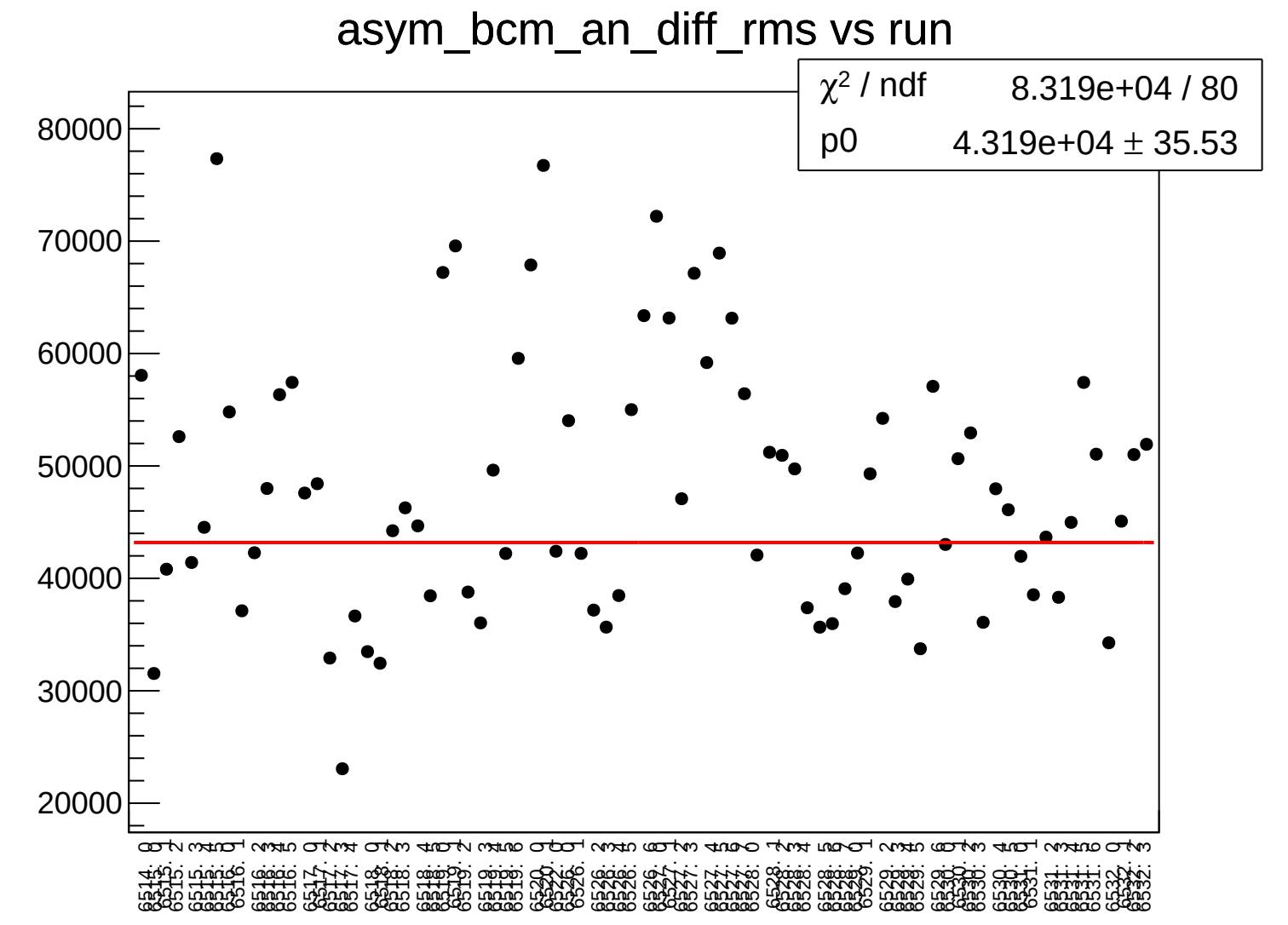

asym_bcm_target_mean vs run
χ² / ndf 20.27 / 80
p0 303.3 ± 240.8
pull
Entries 81
Mean −81.28
Std Dev 0

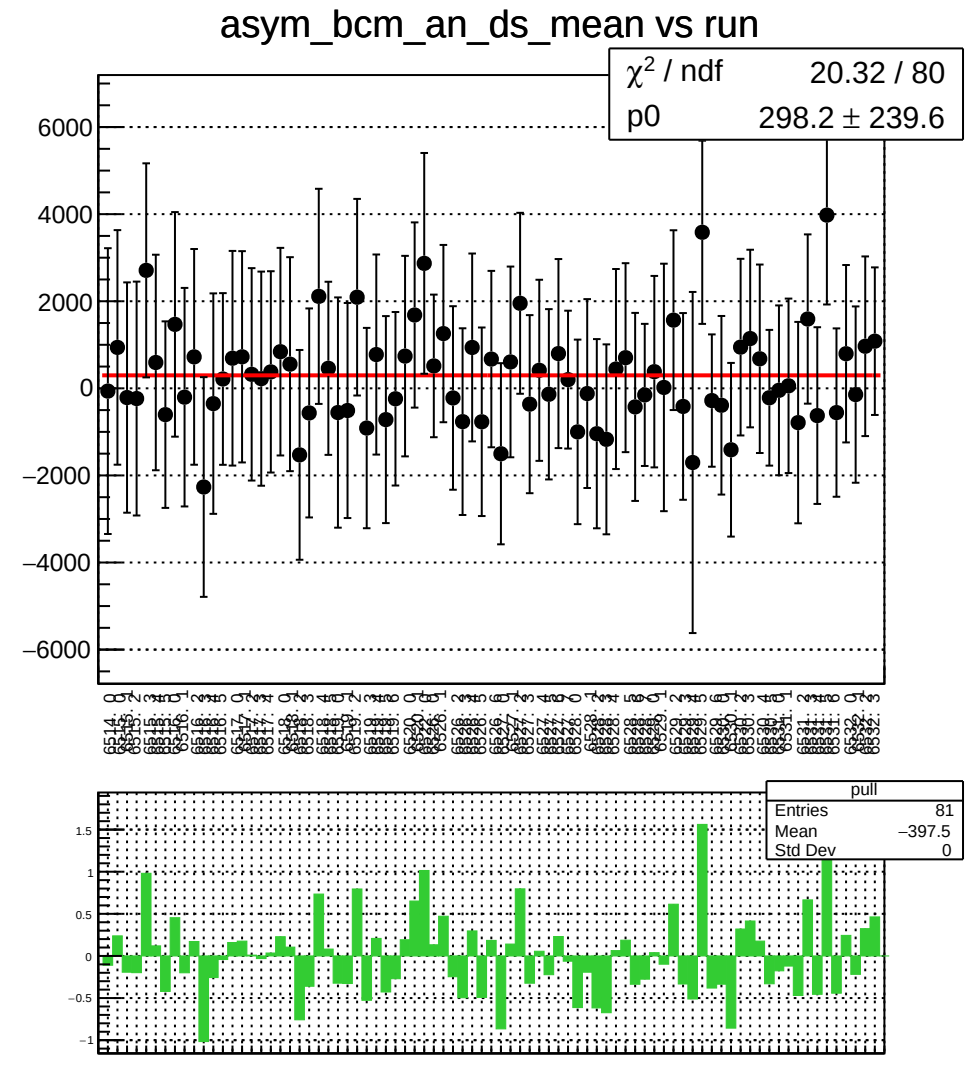

pull1D
Entries 81
Mean −0.003932
Std Dev 0.5002

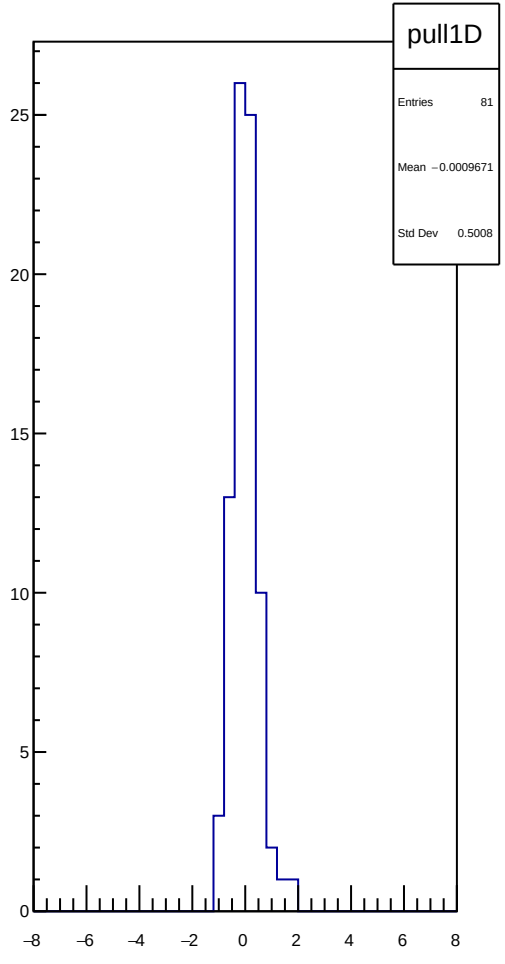

asym_bcm_target_rms vs run
χ² / ndf 1.973e+04 / 80
p0 211.4 ± 0.1703
350
300
250
200
150

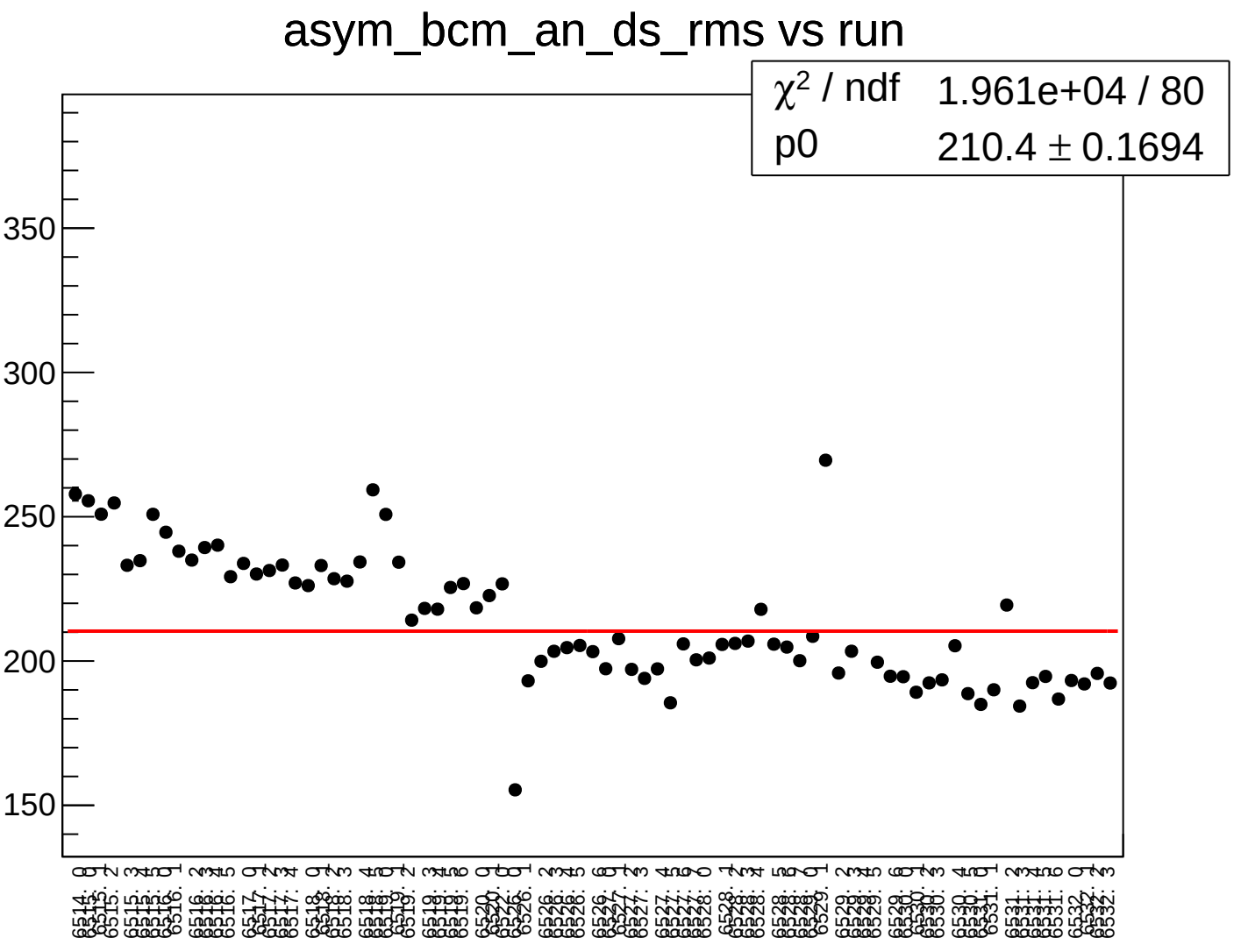

asym_bcm_an_diff_mean vs run
χ² / ndf 69.47 / 80
p0 −24.59 ± 50.25
2000
1000
0
−1000
−2000
pull
Entries 81
Mean 120.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

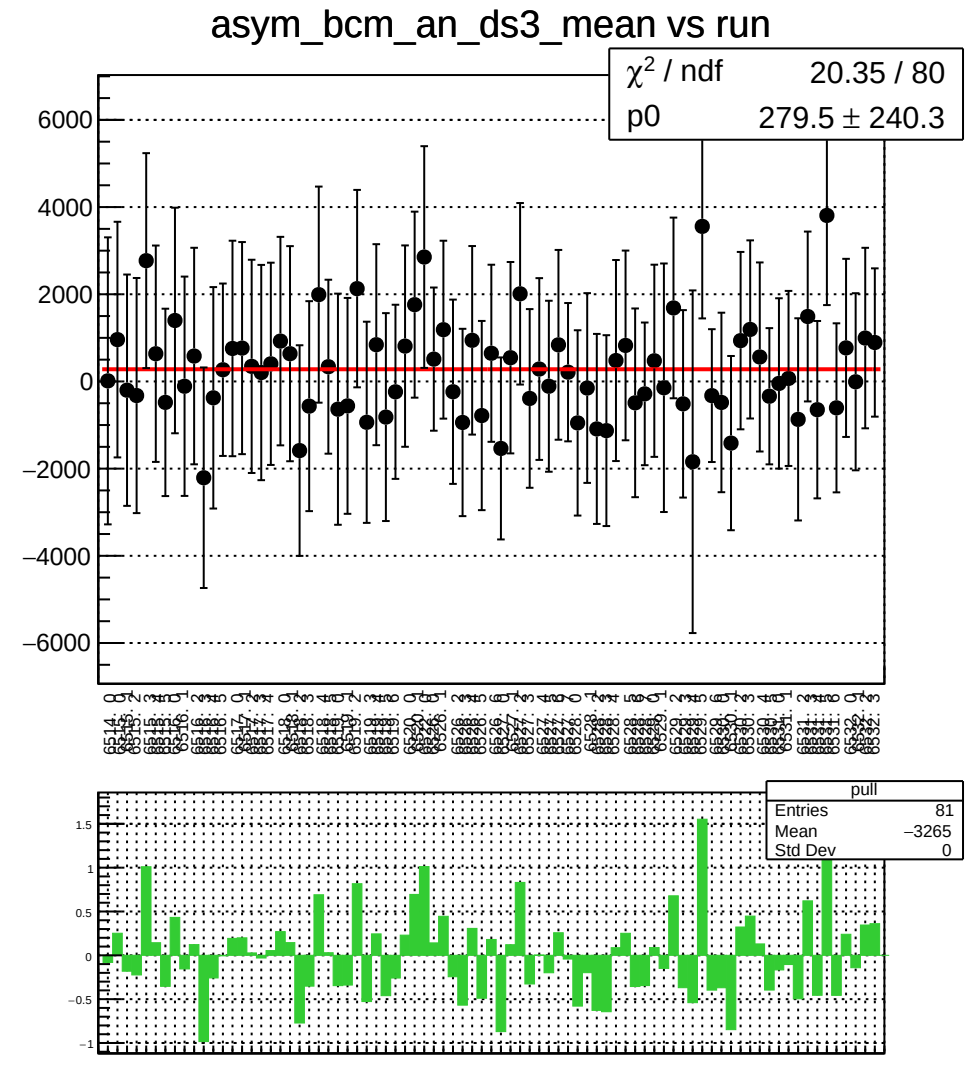

pull1D
Entries 81
Mean 0.01869
Std Dev 0.9259
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

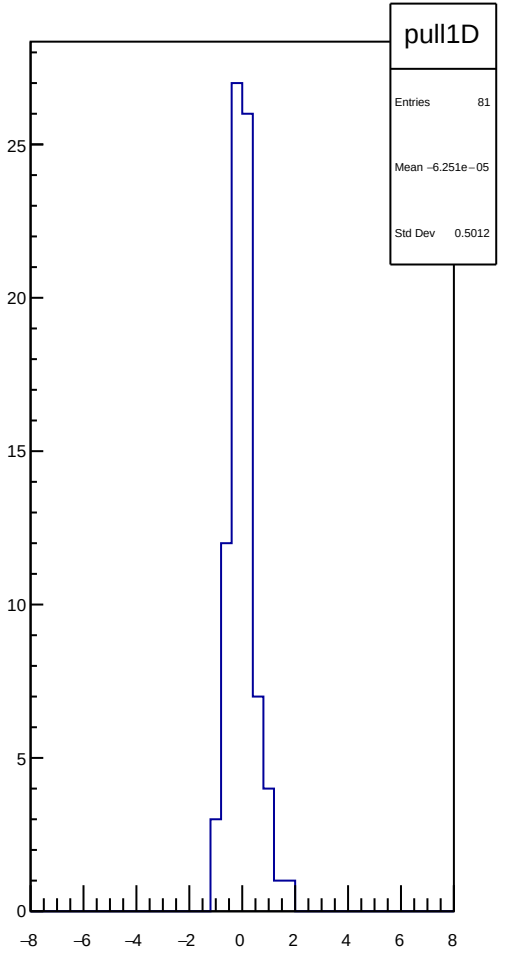

asym_bcm_an_diff_rms vs run
χ² / ndf 8.319e+04 / 80
p0 4.319e+04 ± 35.53
80000
70000
60000
50000
40000
30000
20000

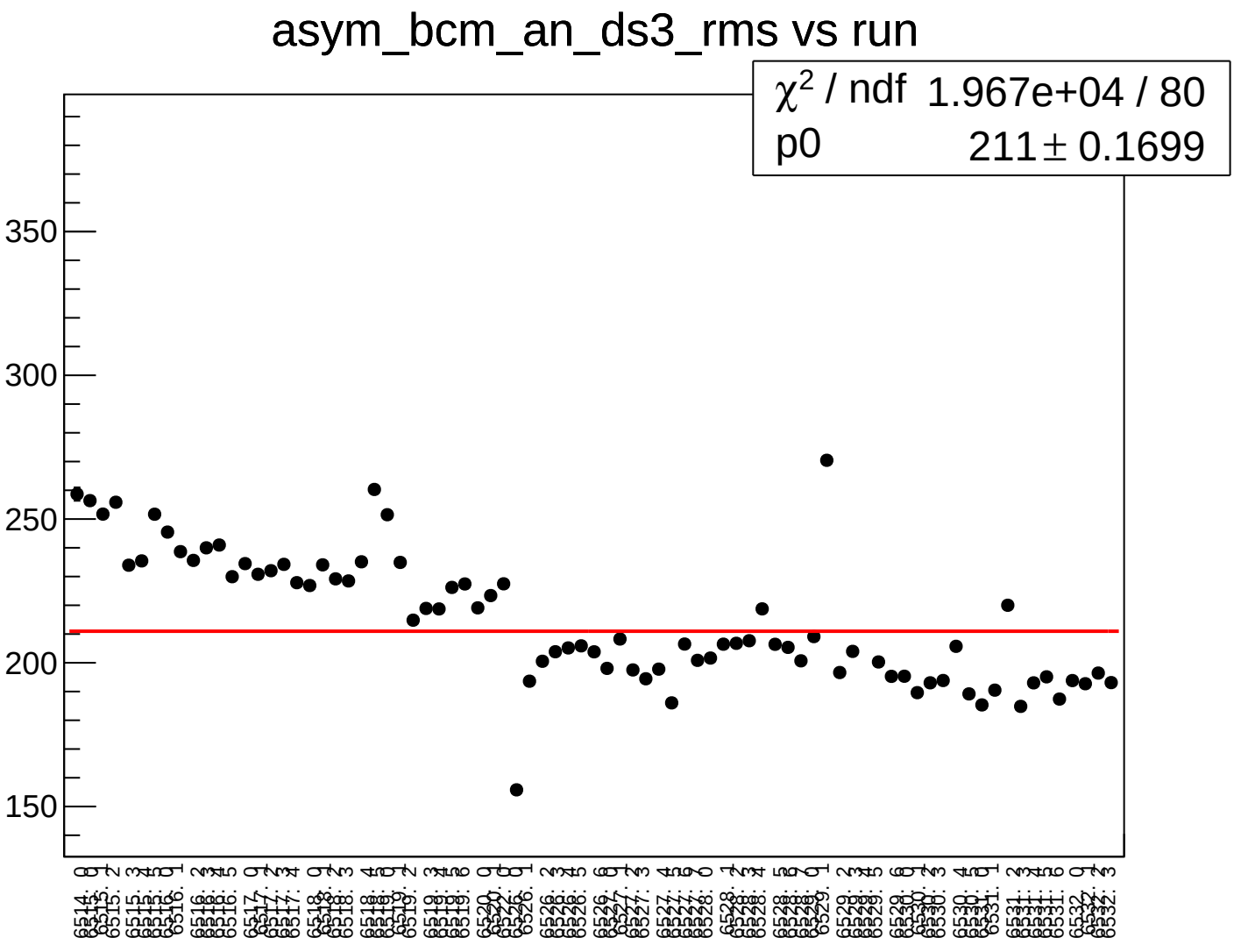

asym_bcm_an_ds_mean vs run
χ² / ndf 20.32 / 80
p0 298.2 ± 239.6
pull
Entries 81
Mean −397.5
Std Dev 0

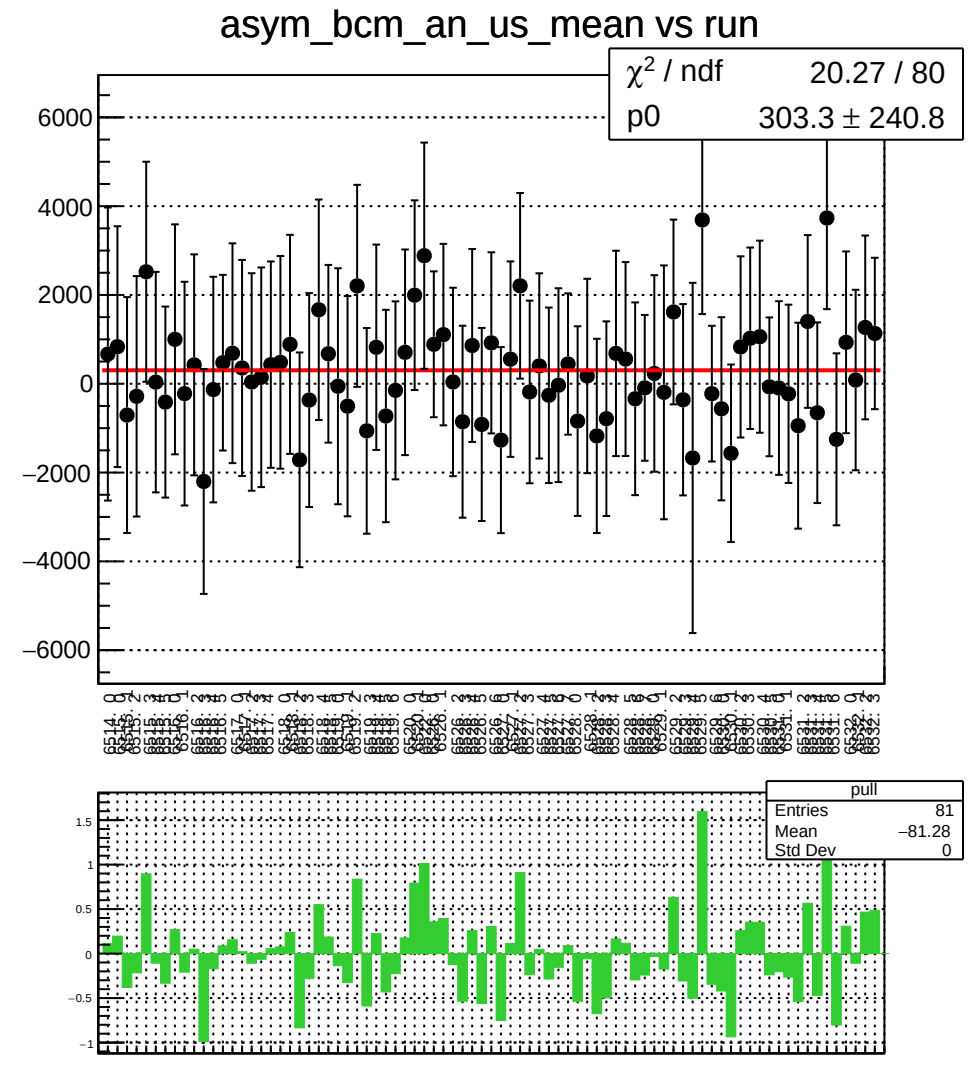

pull1D
Entries 81
Mean −0.0009671
Std Dev 0.5008

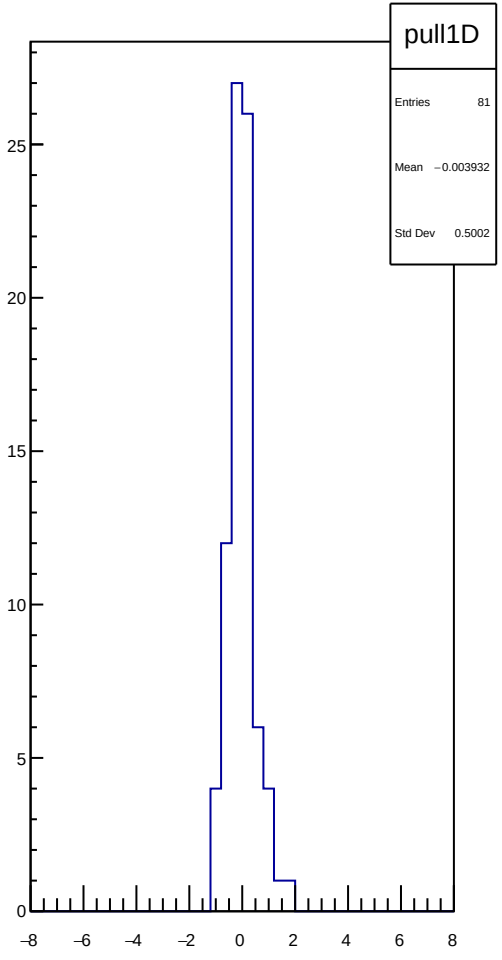

asym_bcm_an_ds_rms vs run
χ² / ndf 1.961e+04 / 80
p0 210.4 ± 0.1694
350
300
250
200
150

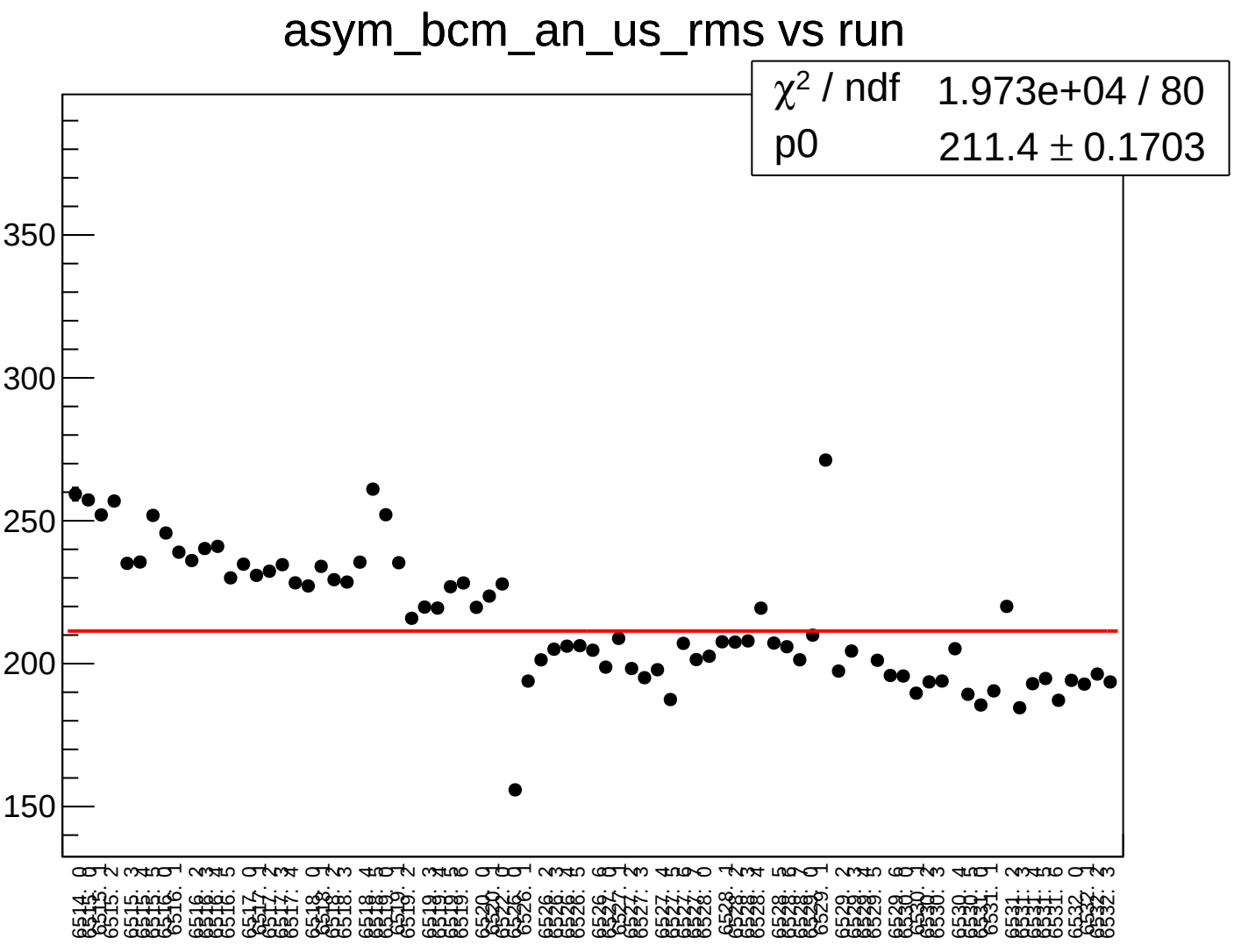

asym_bcm_an_ds3_mean vs run
χ² / ndf 20.35 / 80
p0 279.5 ± 240.3
pull
Entries 81
Mean −3265
Std Dev 0

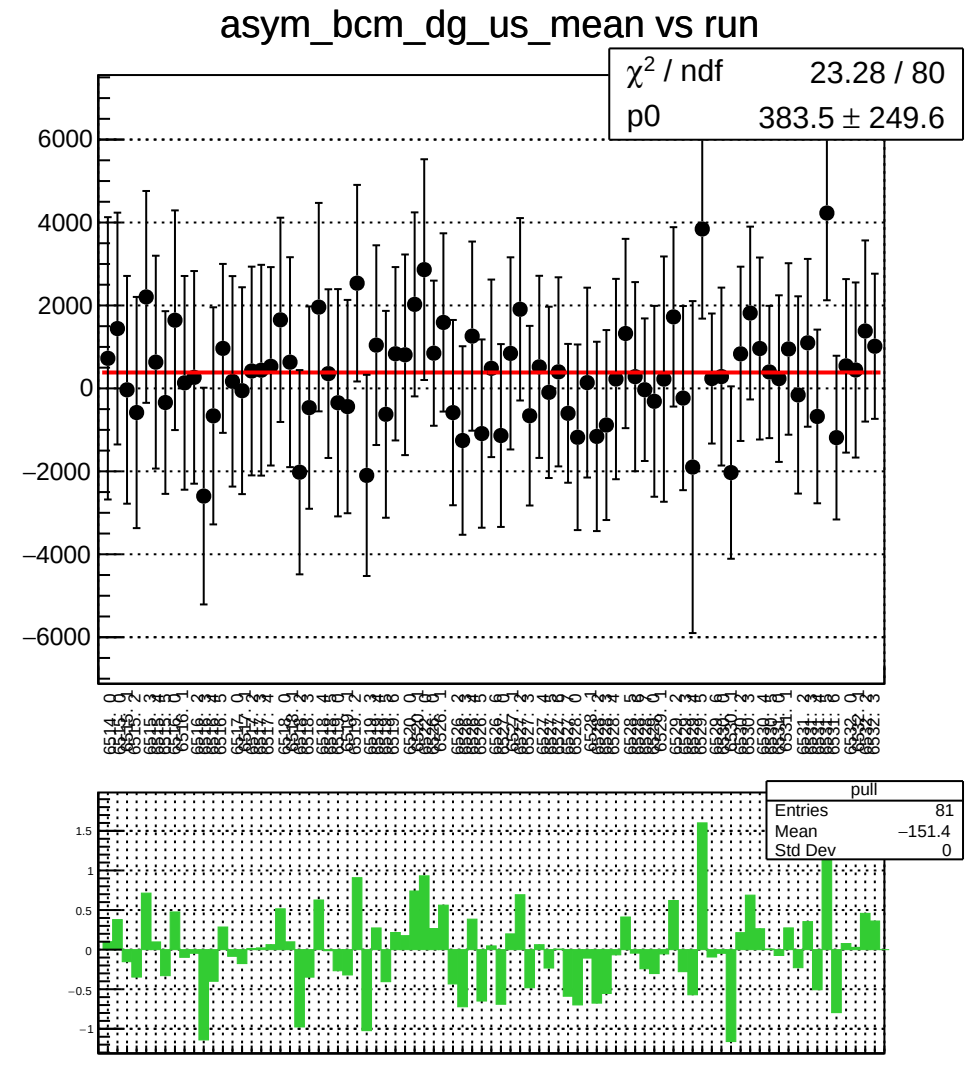

pull1D
Entries 81
Mean −6.251e−05
Std Dev 0.5012

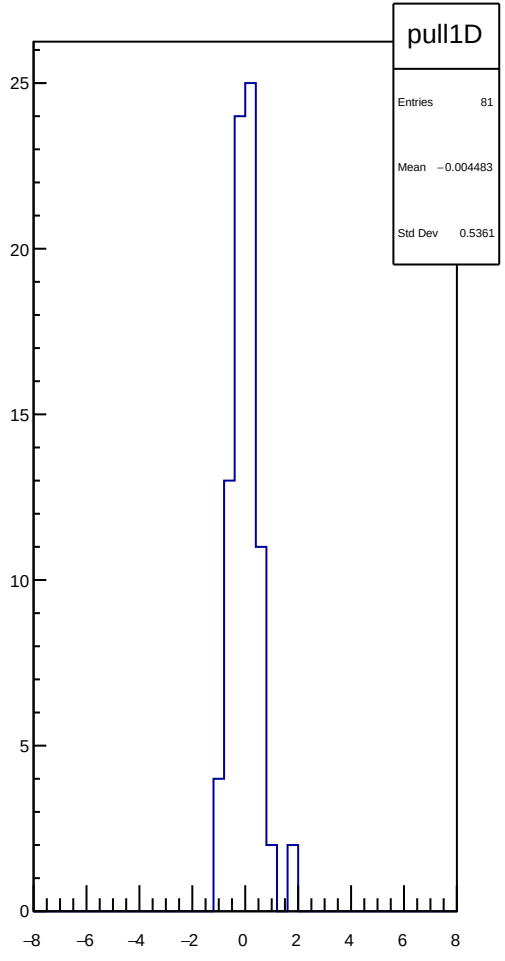

asym_bcm_an_ds3_rms vs run
χ² / ndf 1.967e+04 / 80
p0 211 ± 0.1699
350
300
250
200
150

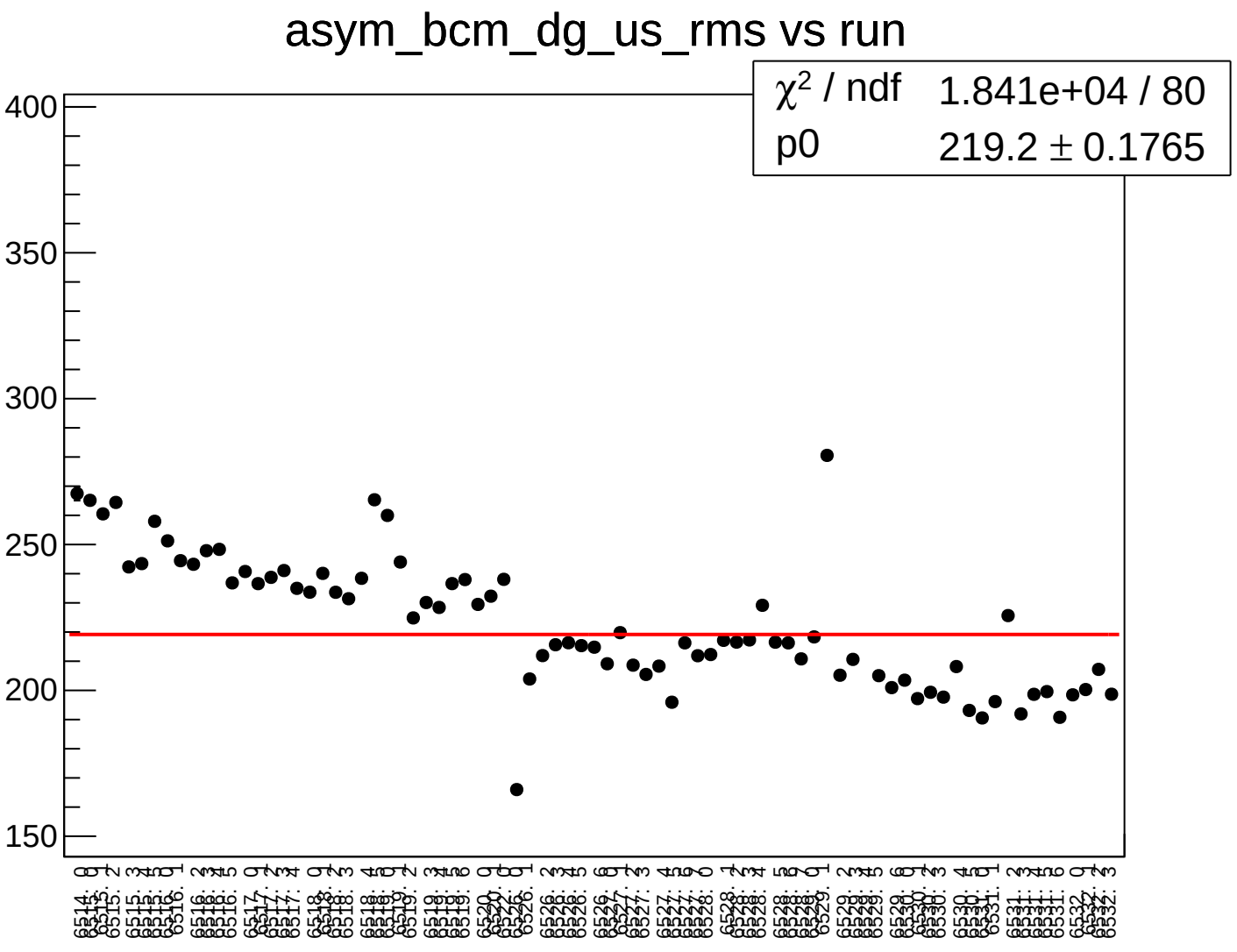

asym_bcm_an_us_mean vs run
χ² / ndf 20.27 / 80
p0 303.3 ± 240.8
pull
Entries 81
Mean −81.28
Std Dev 0

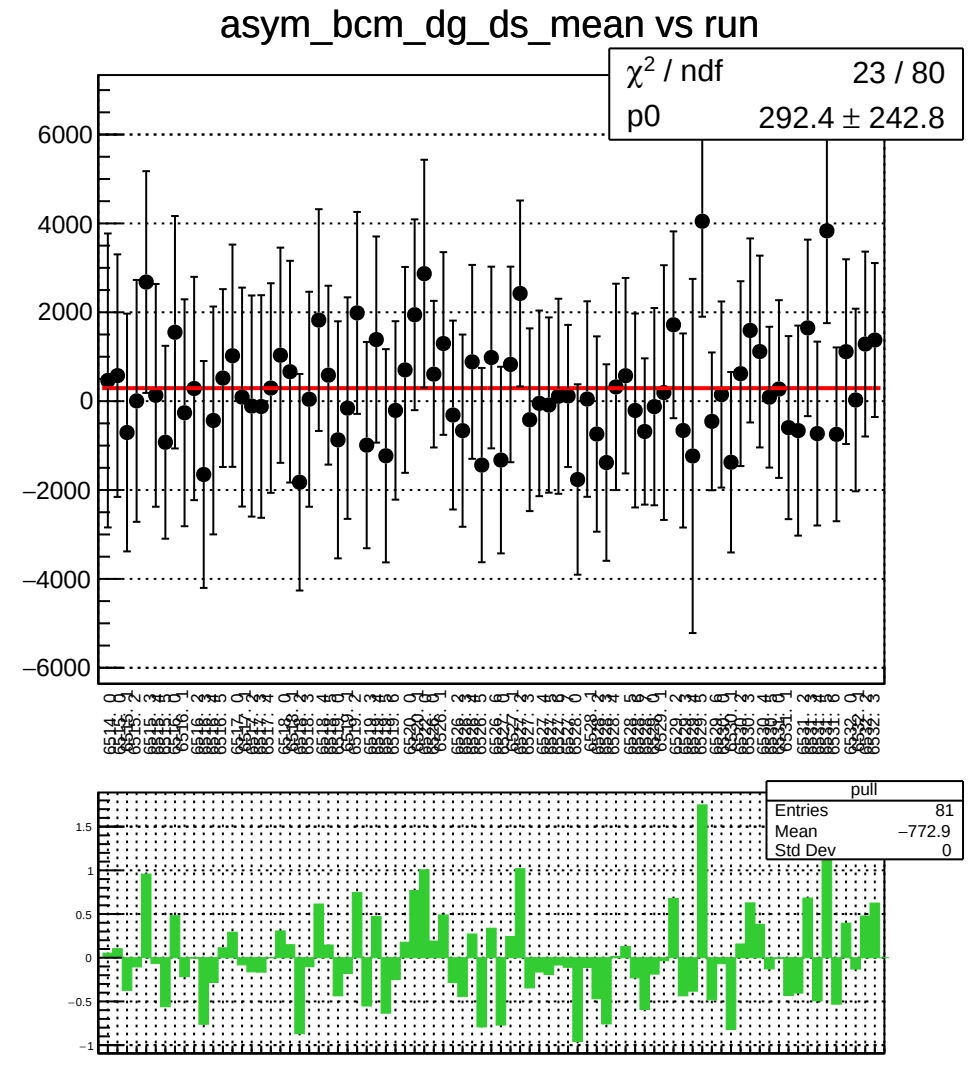

pull1D
Entries 81
Mean −0.003932
Std Dev 0.5002

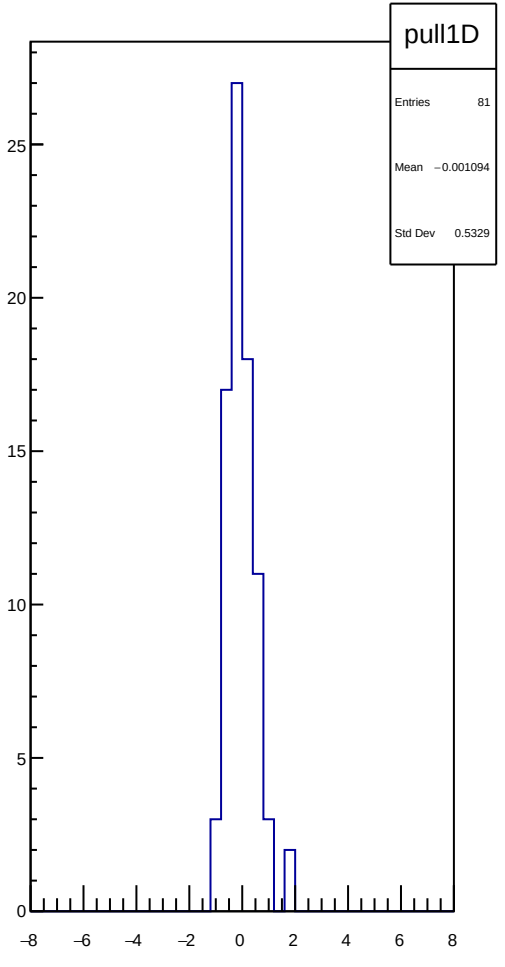

asym_bcm_an_us_rms vs run
χ² / ndf 1.973e+04 / 80
p0 211.4 ± 0.1703
350
300
250
200
150

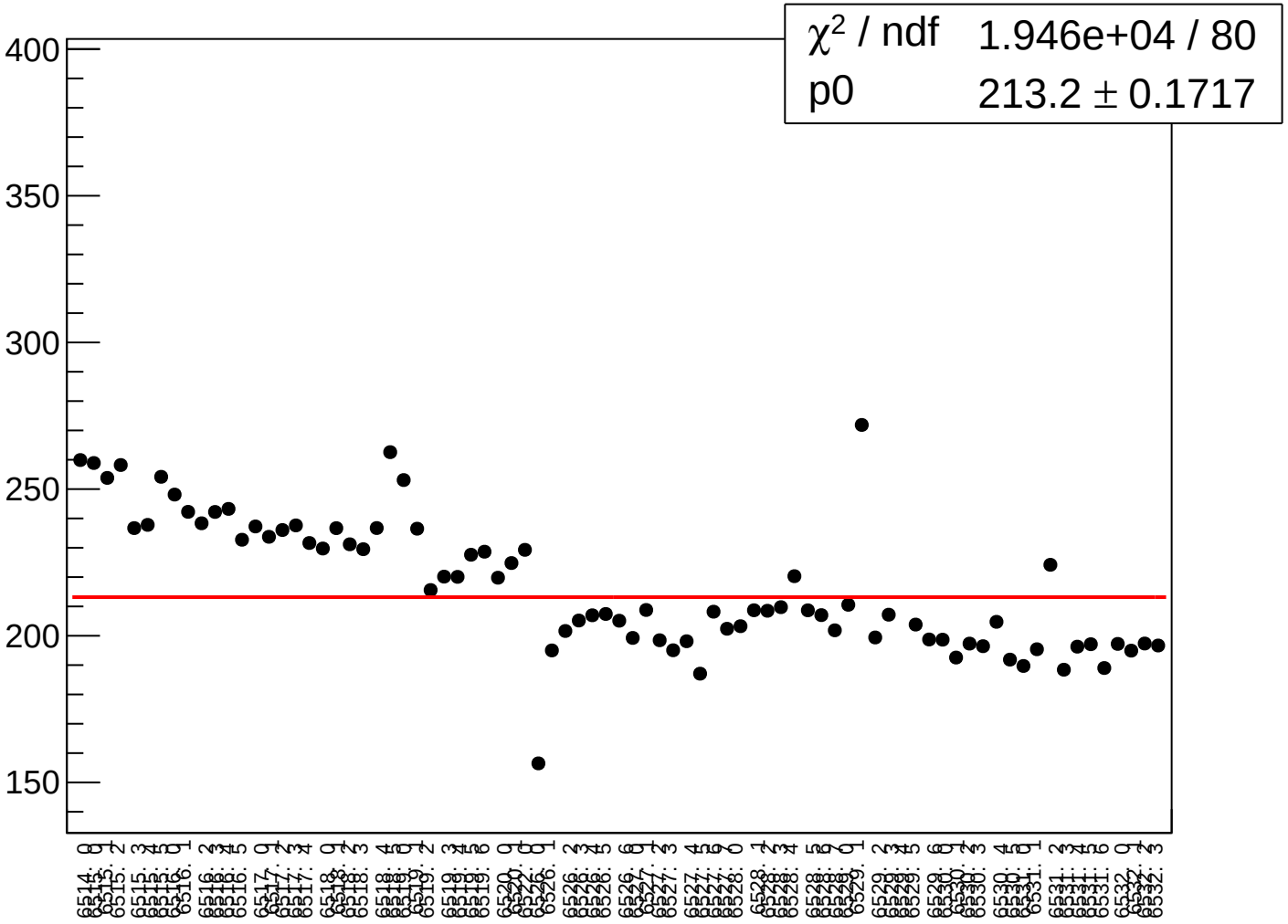

asym_bcm_dg_us_mean vs run
χ² / ndf 23.28 / 80
p0 383.5 ± 249.6
pull
Entries 81
Mean −151.4
Std Dev 0

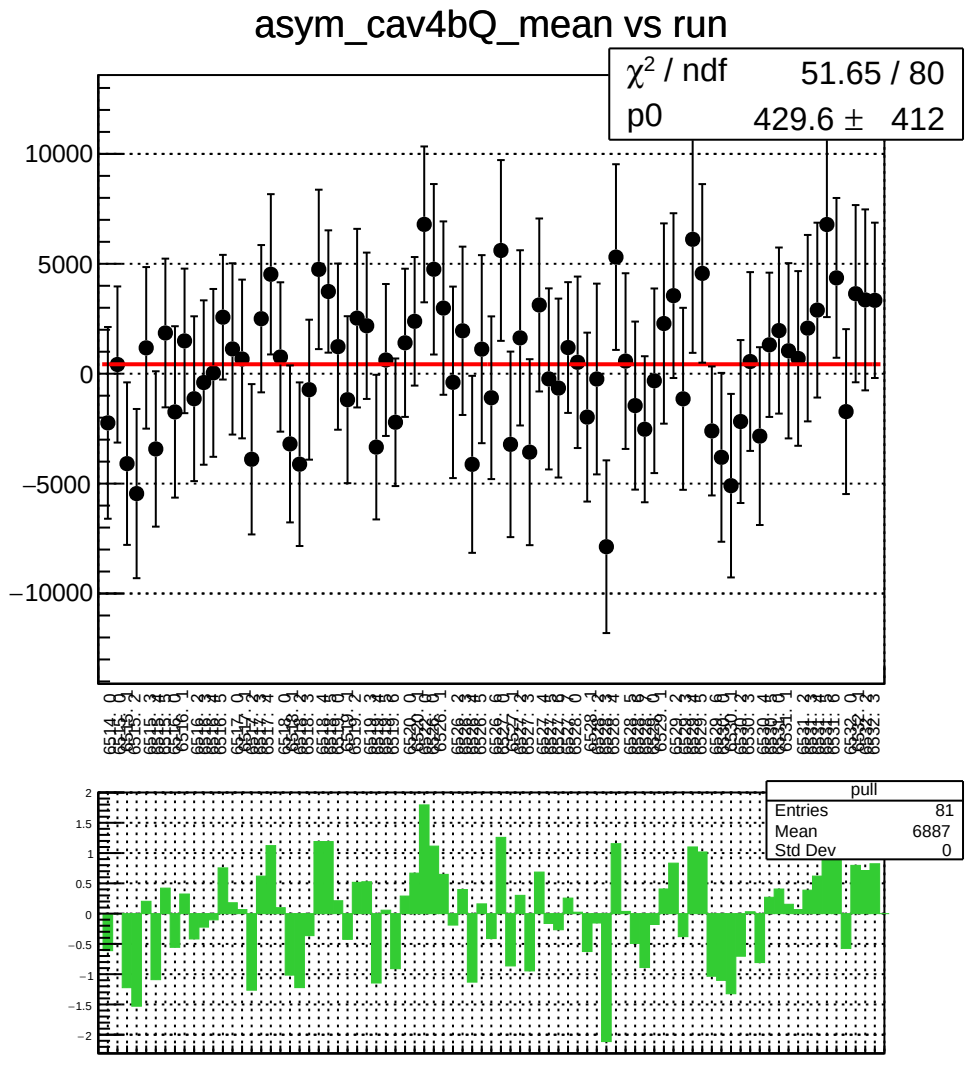

pull1D
Entries 81
Mean −0.004483
Std Dev 0.5361

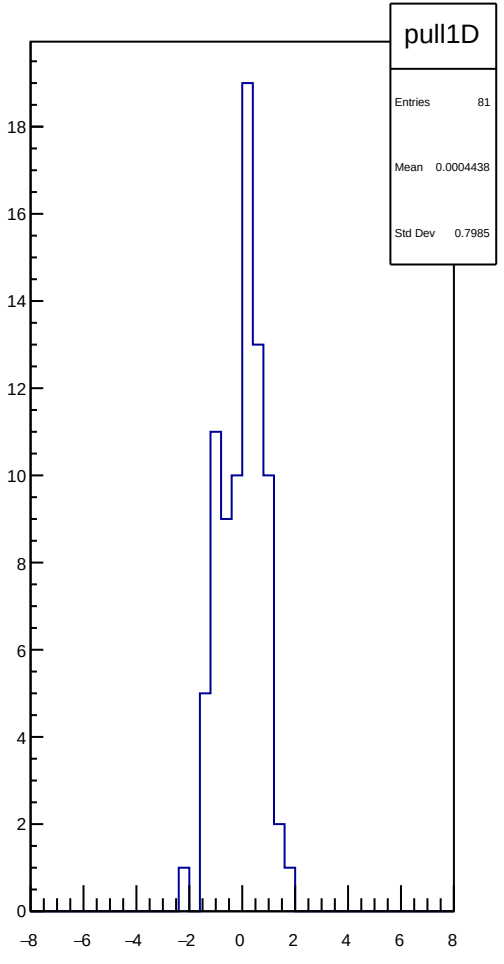

asym_bcm_dg_us_rms vs run
χ² / ndf 1.841e+04 / 80
p0 219.2 ± 0.1765
400
350
300
250
200
150

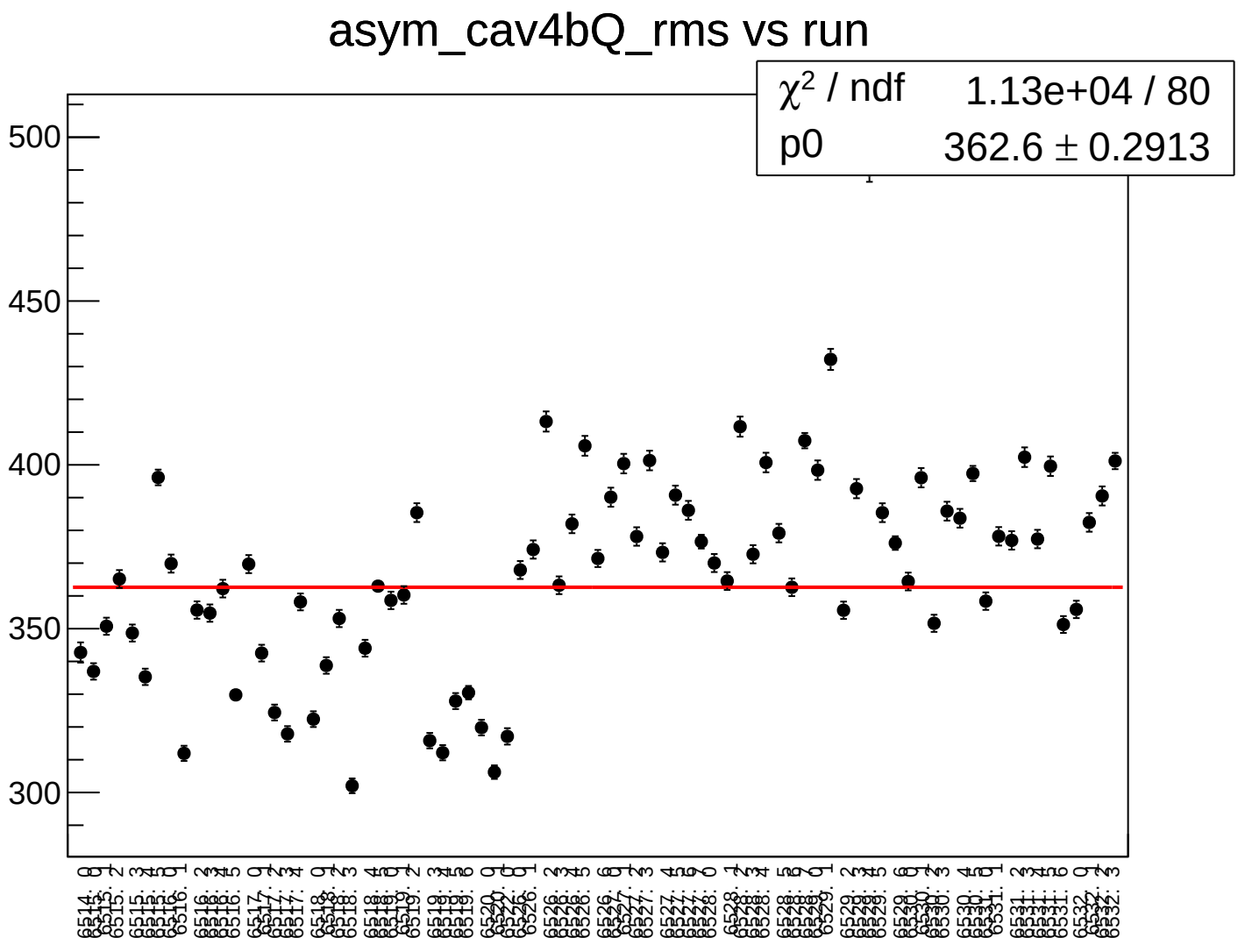

asym_bcm_dg_ds_mean vs run
χ² / ndf 23 / 80
p0 292.4 ± 242.8
pull
Entries 81
Mean −772.9
Std Dev 0

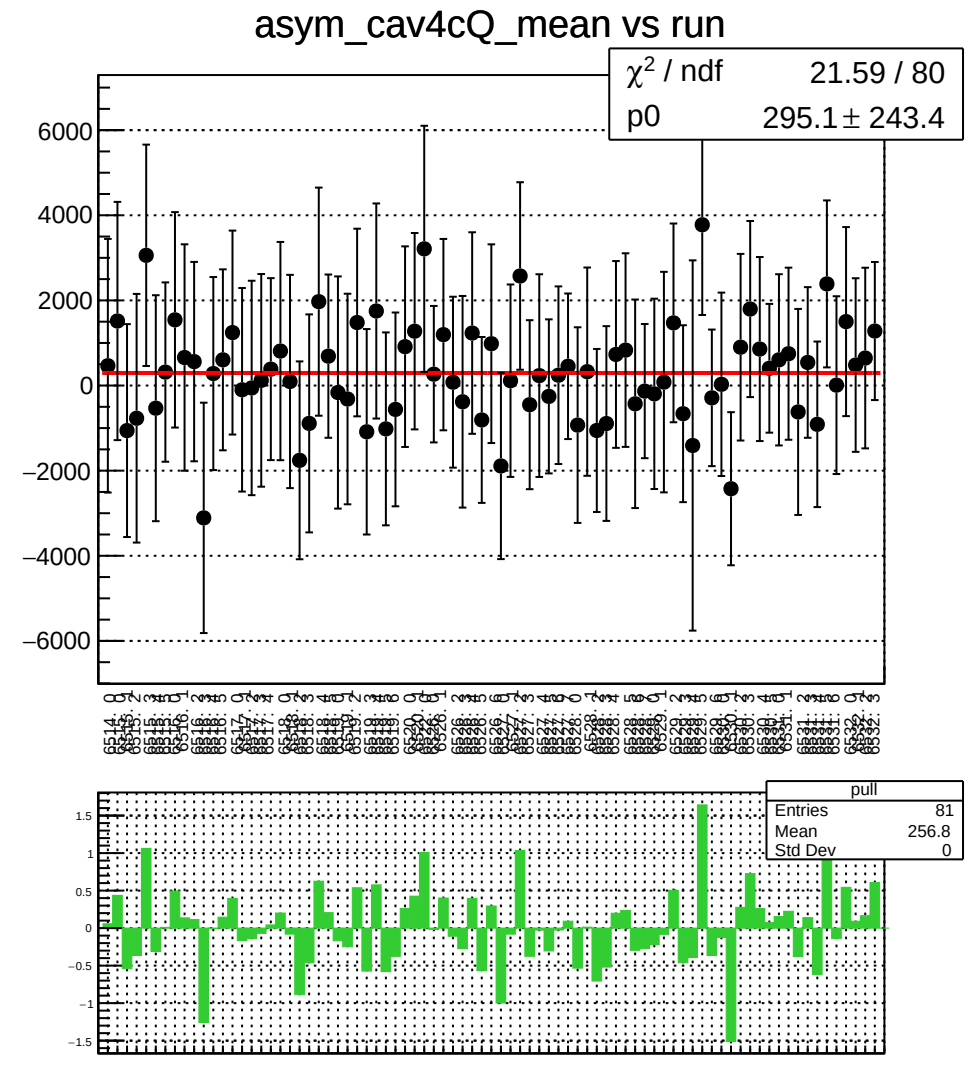

pull1D
Entries 81
Mean −0.001094
Std Dev 0.5329

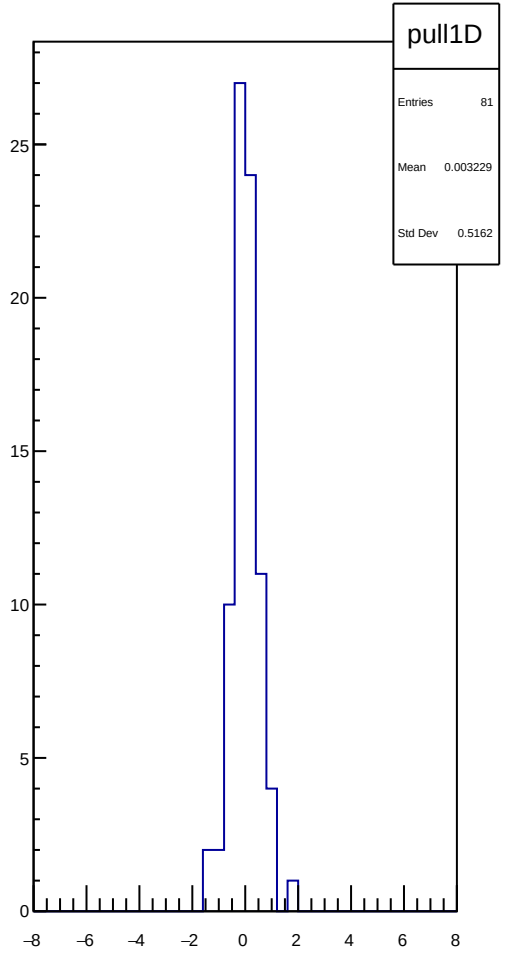

asym_bcm_dg_ds_rms vs run
χ² / ndf 1.946e+04 / 80
p0 213.2 ± 0.1717
400
350
300
250
200
150

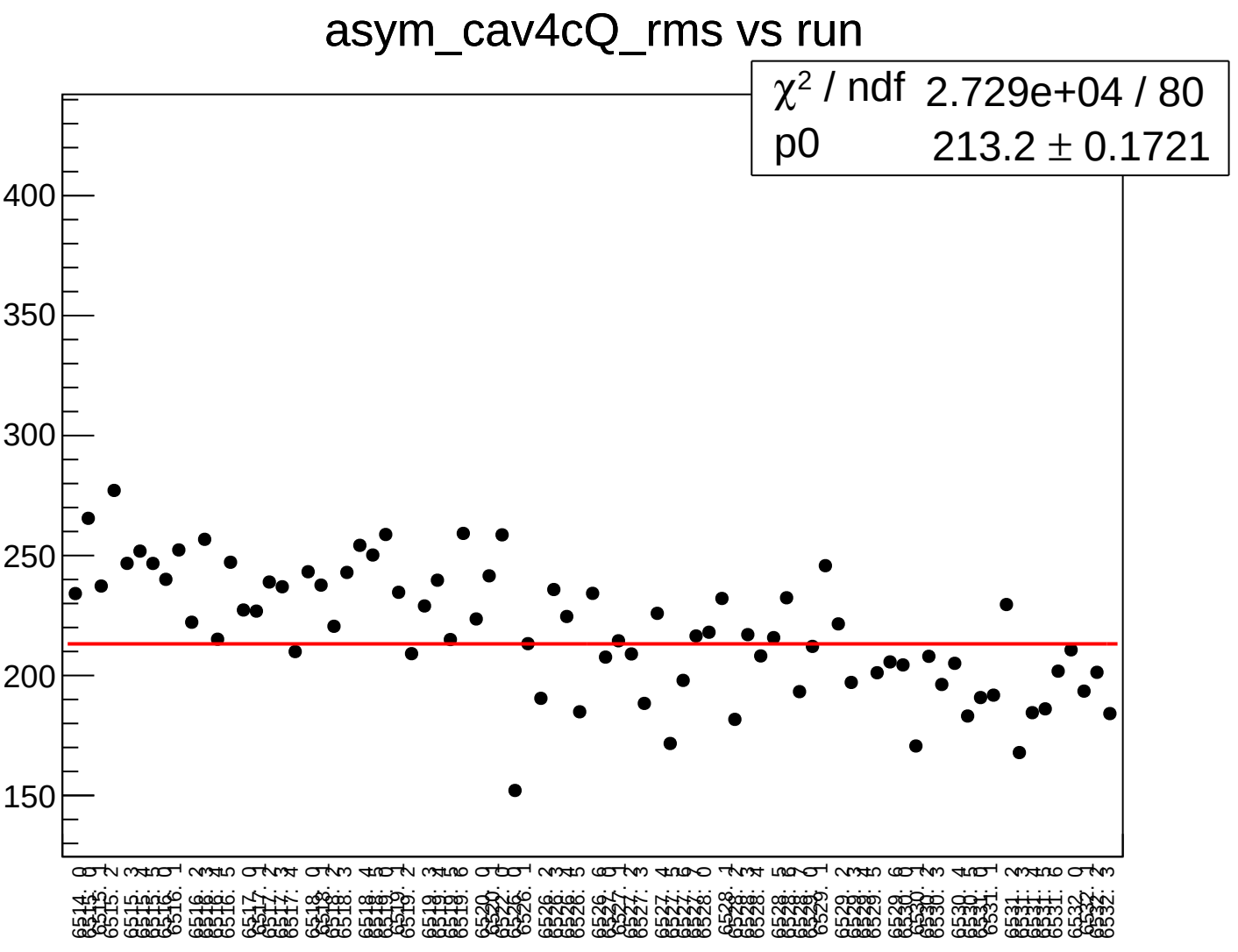

asym_cav4bQ_mean vs run
χ² / ndf 51.65 / 80
p0 429.6 ± 412
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 6887
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

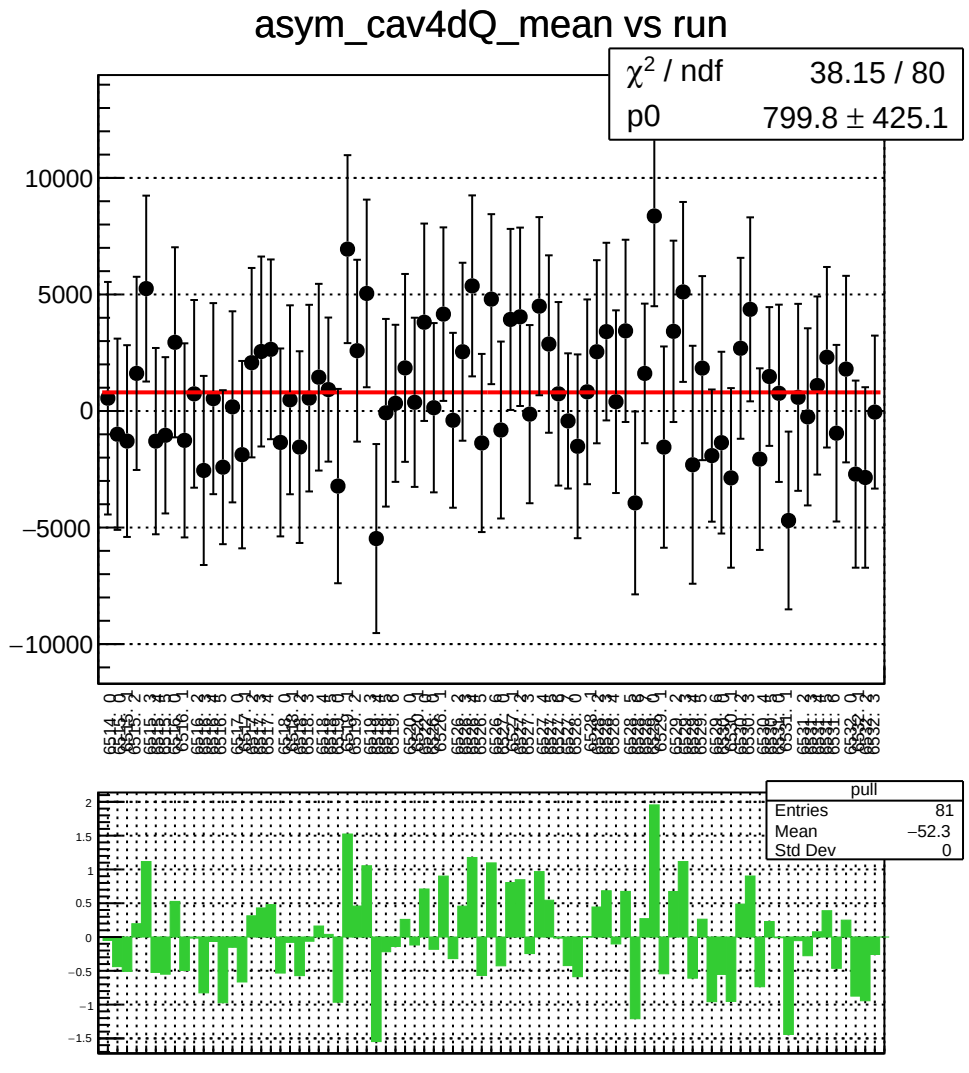

pull1D
Entries 81
Mean 0.0004438
Std Dev 0.7985
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

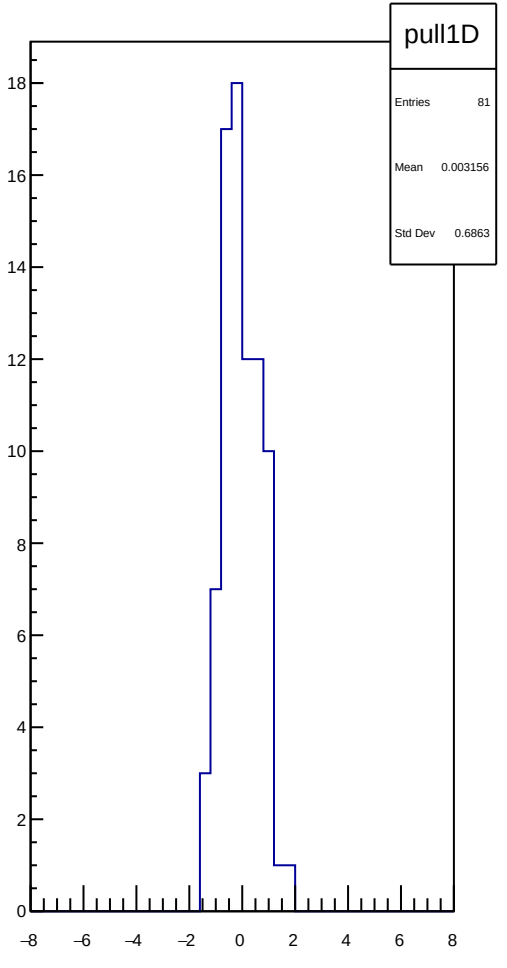

asym_cav4bQ_rms vs run
χ² / ndf 1.13e+04 / 80
p0 362.6 ± 0.2913
500
450
400
350
300

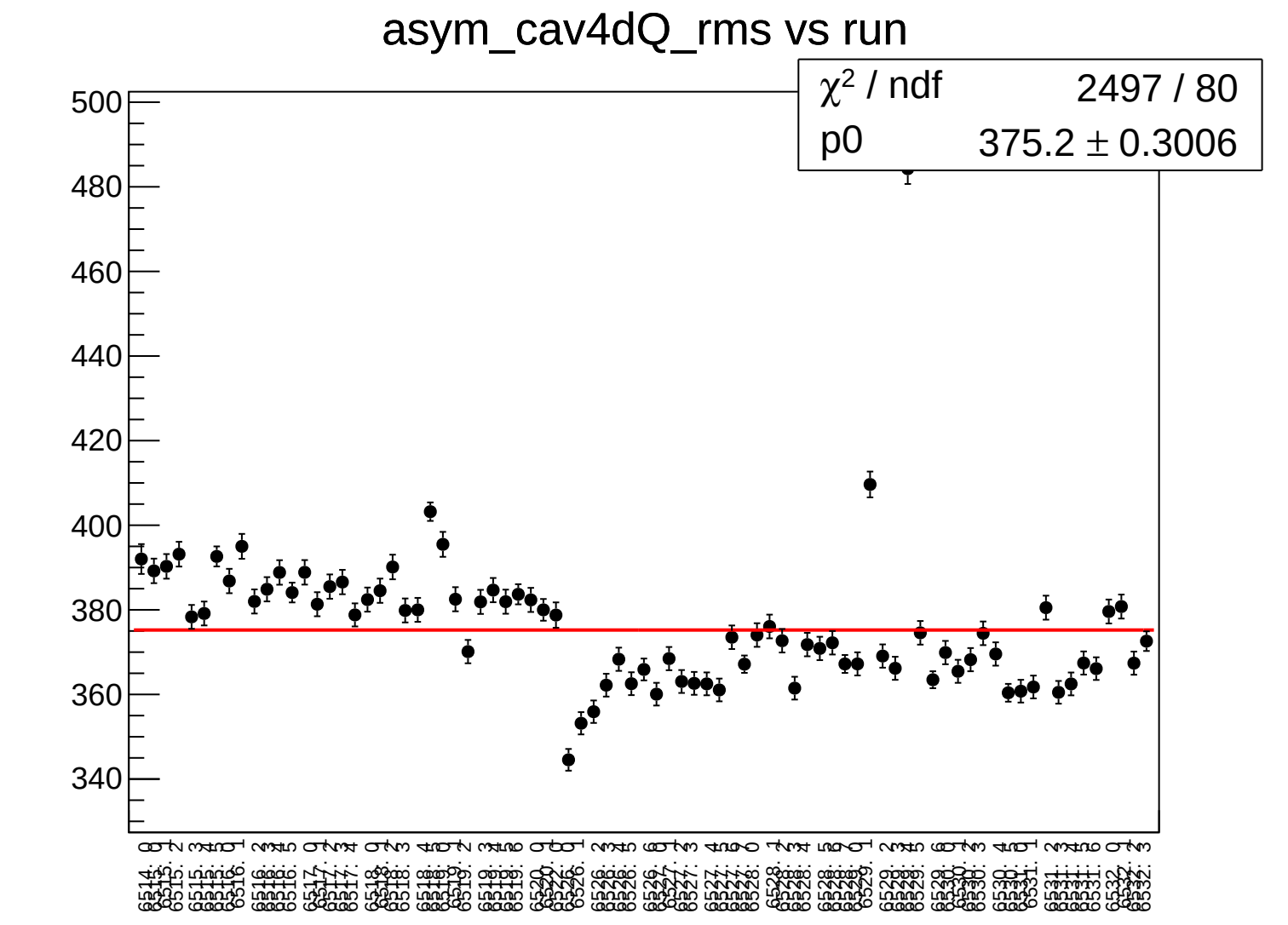

asym_cav4cQ_mean vs run
χ² / ndf 21.59 / 80
p0 295.1 ± 243.4
pull
Entries 81
Mean 256.8
Std Dev 0

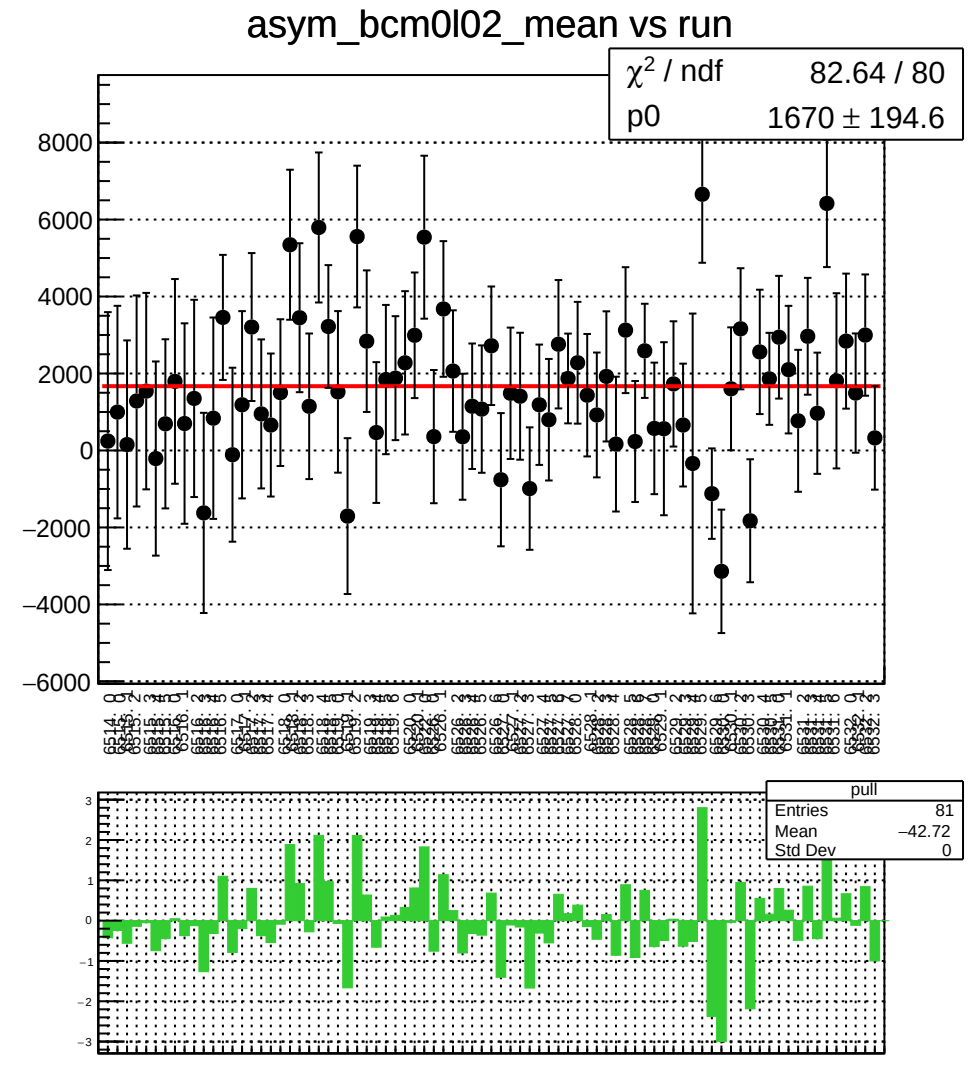

pull1D
Entries 81
Mean 0.003229
Std Dev 0.5162

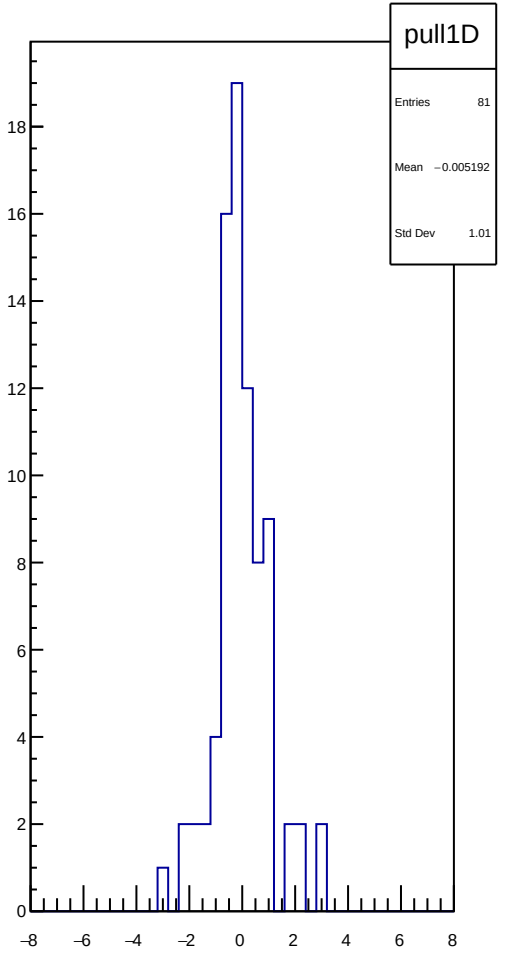

asym_cav4cQ_rms vs run
χ² / ndf 2.729e+04 / 80
p0 213.2 ± 0.1721
400
350
300
250
200
150

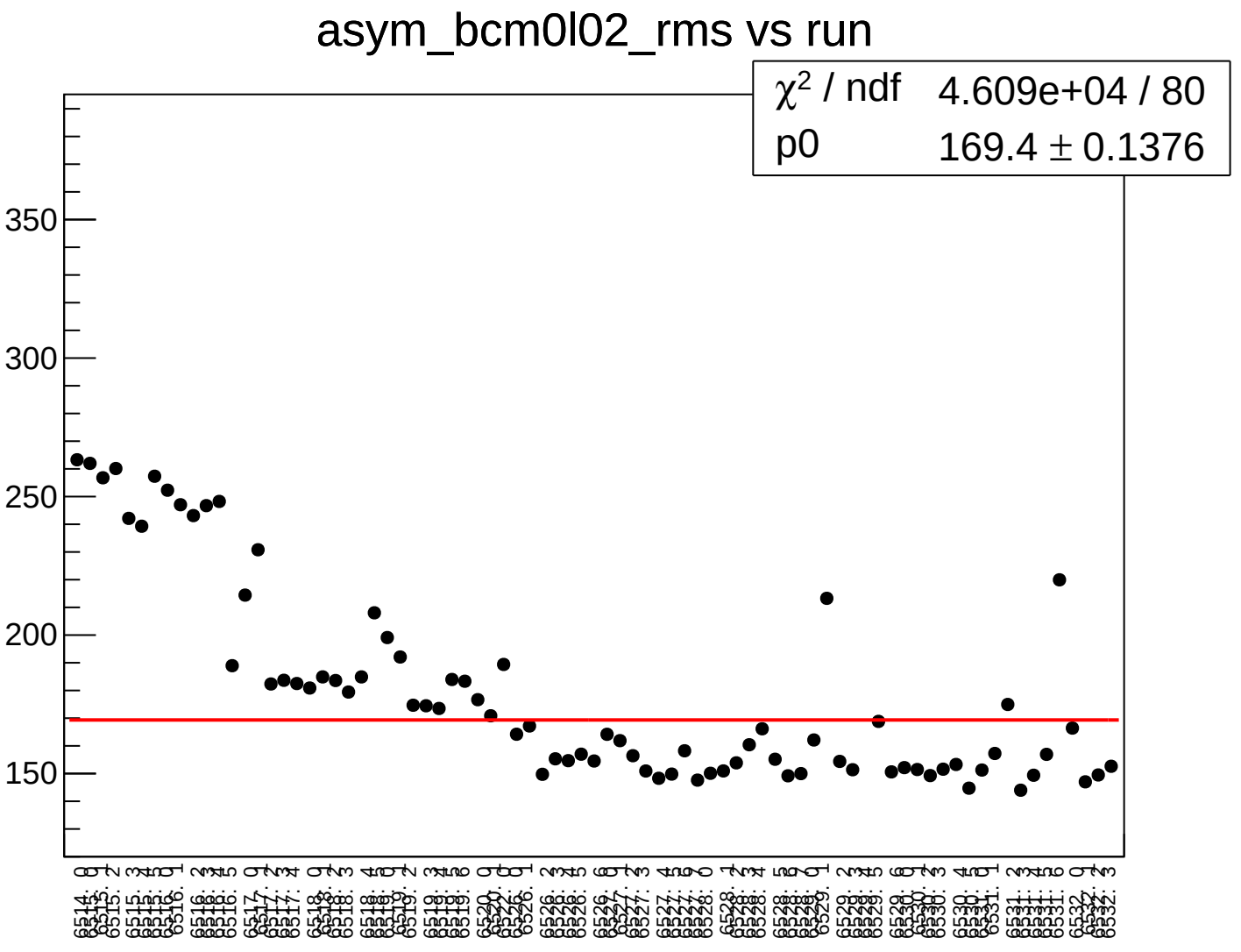

asym_cav4dQ_mean vs run
χ² / ndf 38.15 / 80
p0 799.8 ± 425.1
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −52.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

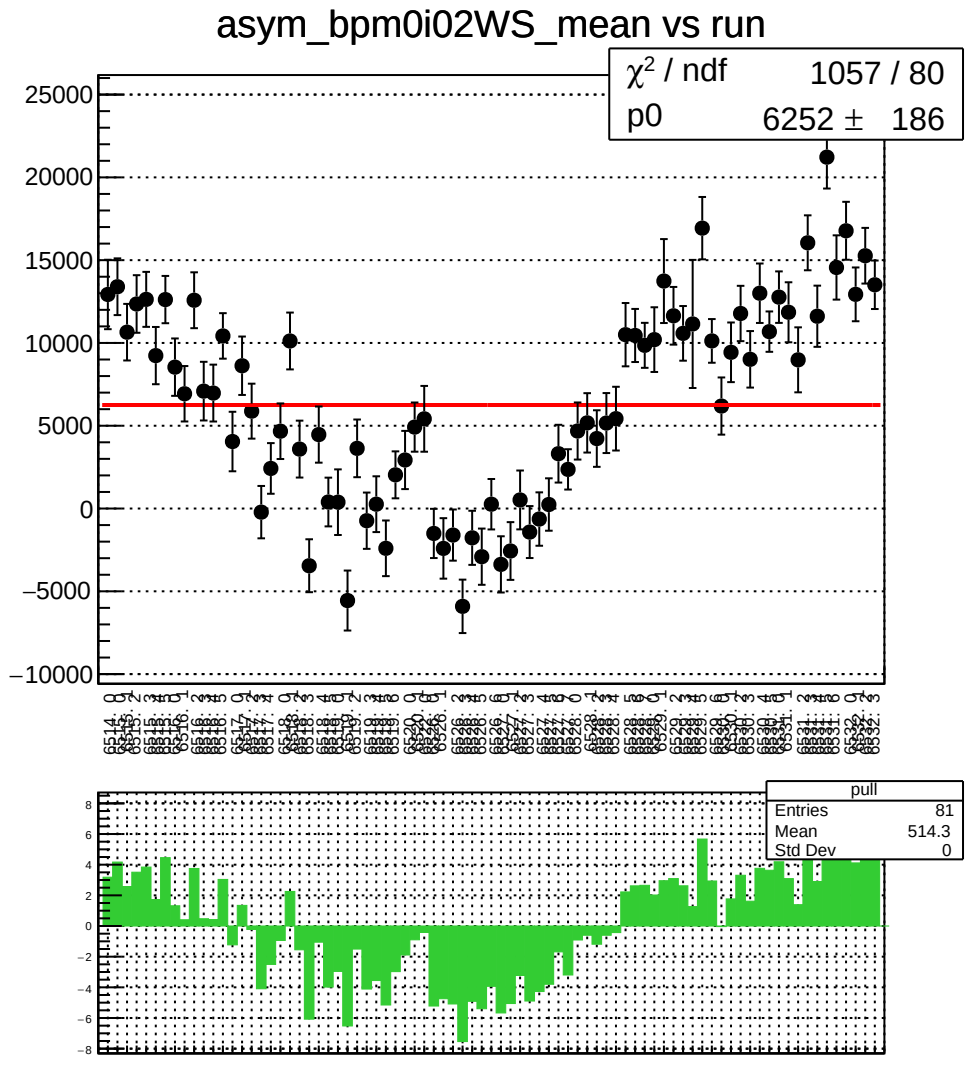

pull1D
Entries 81
Mean 0.003156
Std Dev 0.6863
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

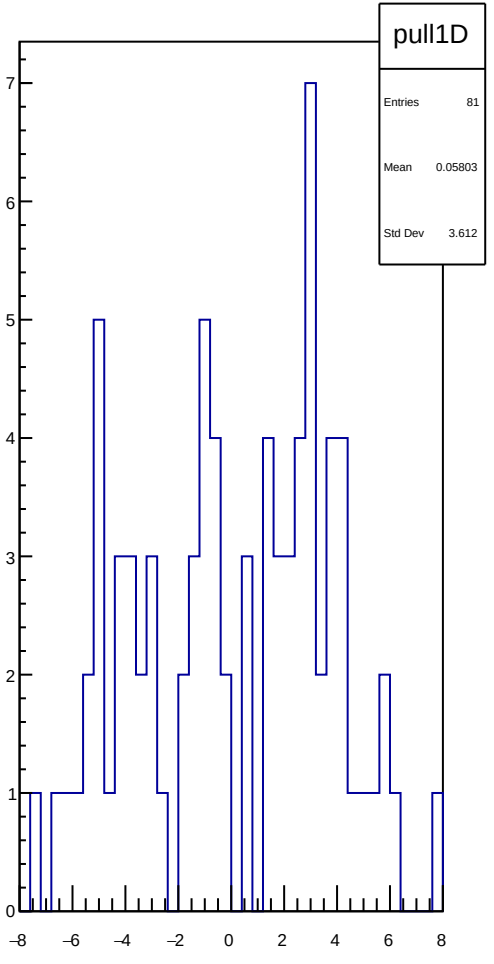

asym_cav4dQ_rms vs run
χ² / ndf 2497 / 80
p0 375.2 ± 0.3006
500
480
460
440
420
400
380
360
340

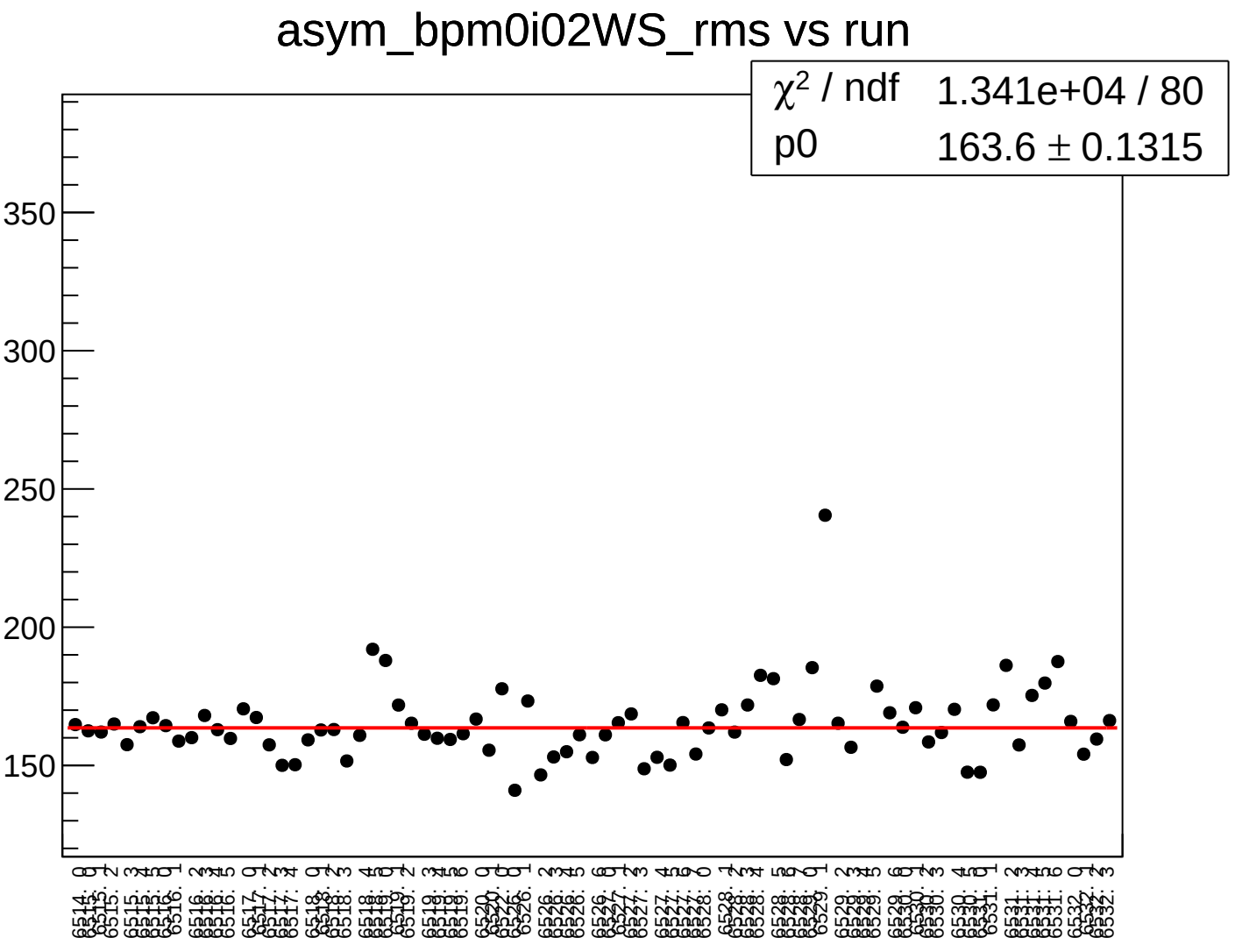

asym_bcm0l02_mean vs run
χ² / ndf 82.64 / 80
p0 1670 ± 194.6
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 81
Mean −42.72
Std Dev 0
3
2
1
0
−1
−2
−3

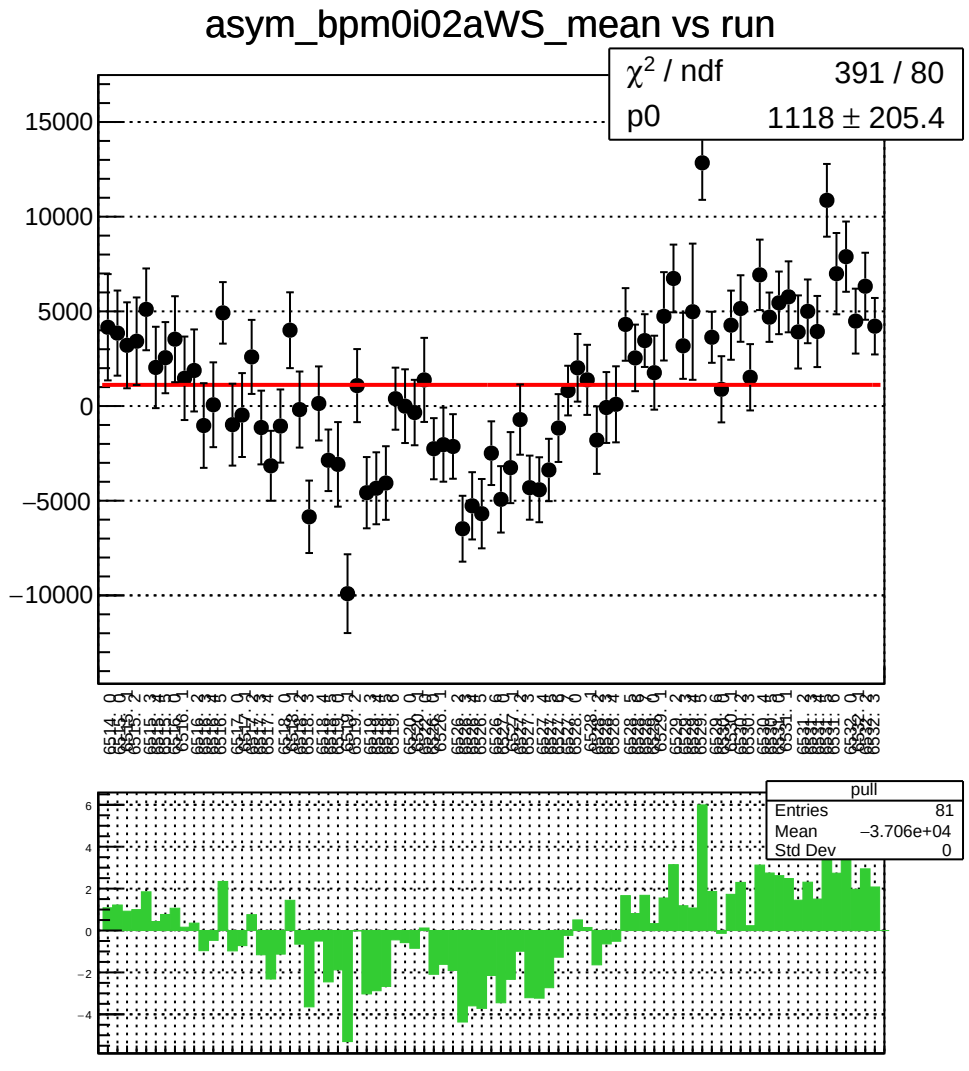

pull1D
Entries 81
Mean −0.005192
Std Dev 1.01
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

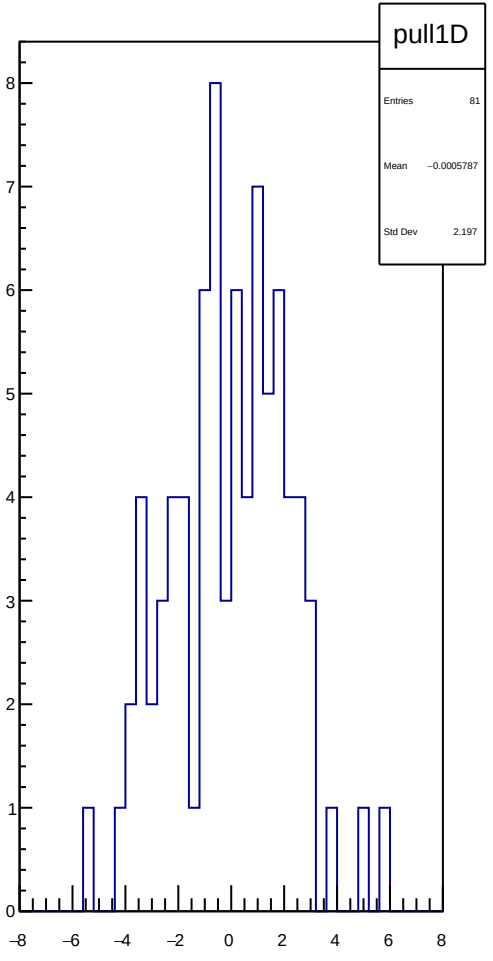

asym_bcm0l02_rms vs run
χ² / ndf 4.609e+04 / 80
p0 169.4 ± 0.1376
350
300
250
200
150

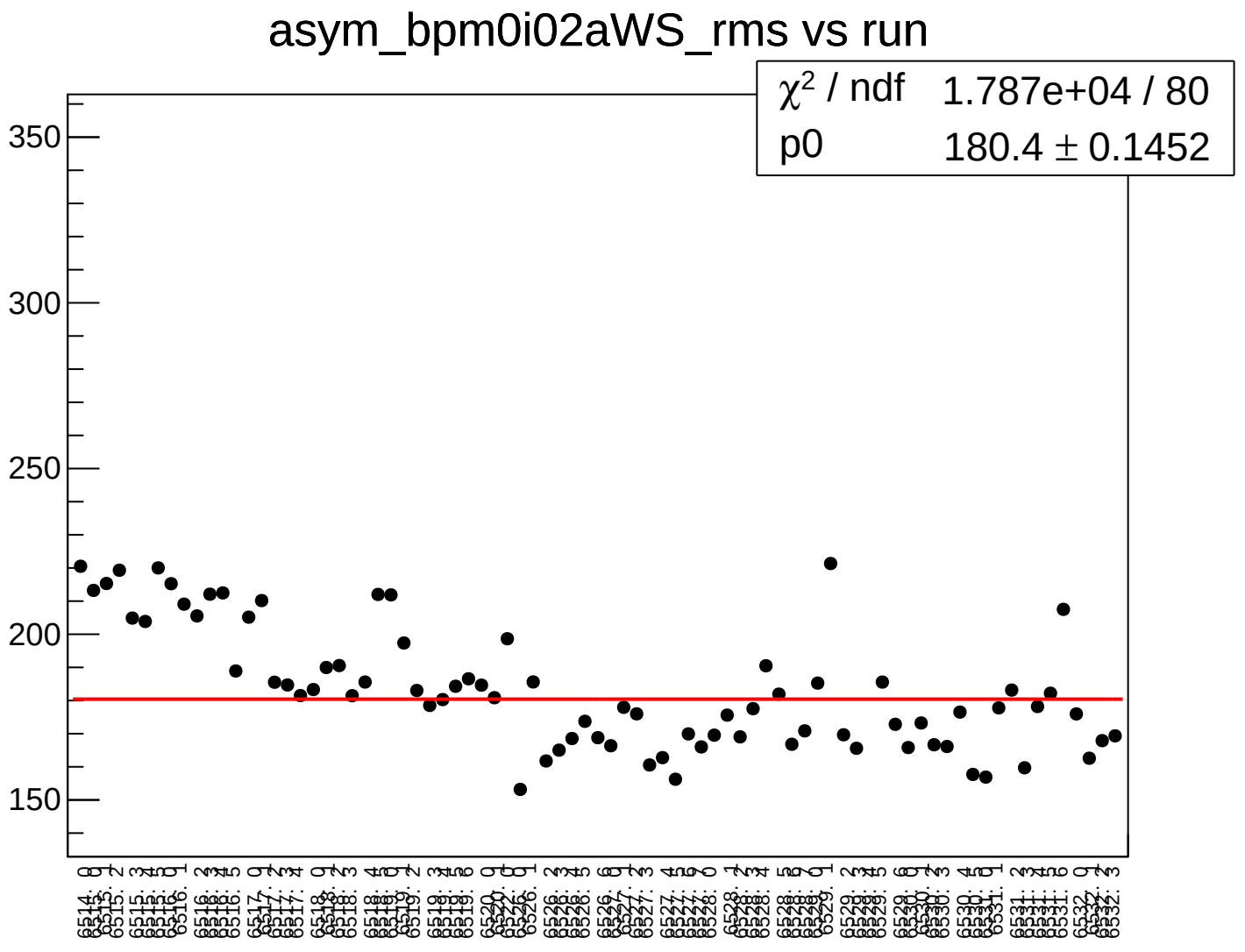

asym_bpm0i02WS_mean vs run
χ² / ndf 1057 / 80
p0 6252 ± 186
pull
Entries 81
Mean 514.3
Std Dev 0

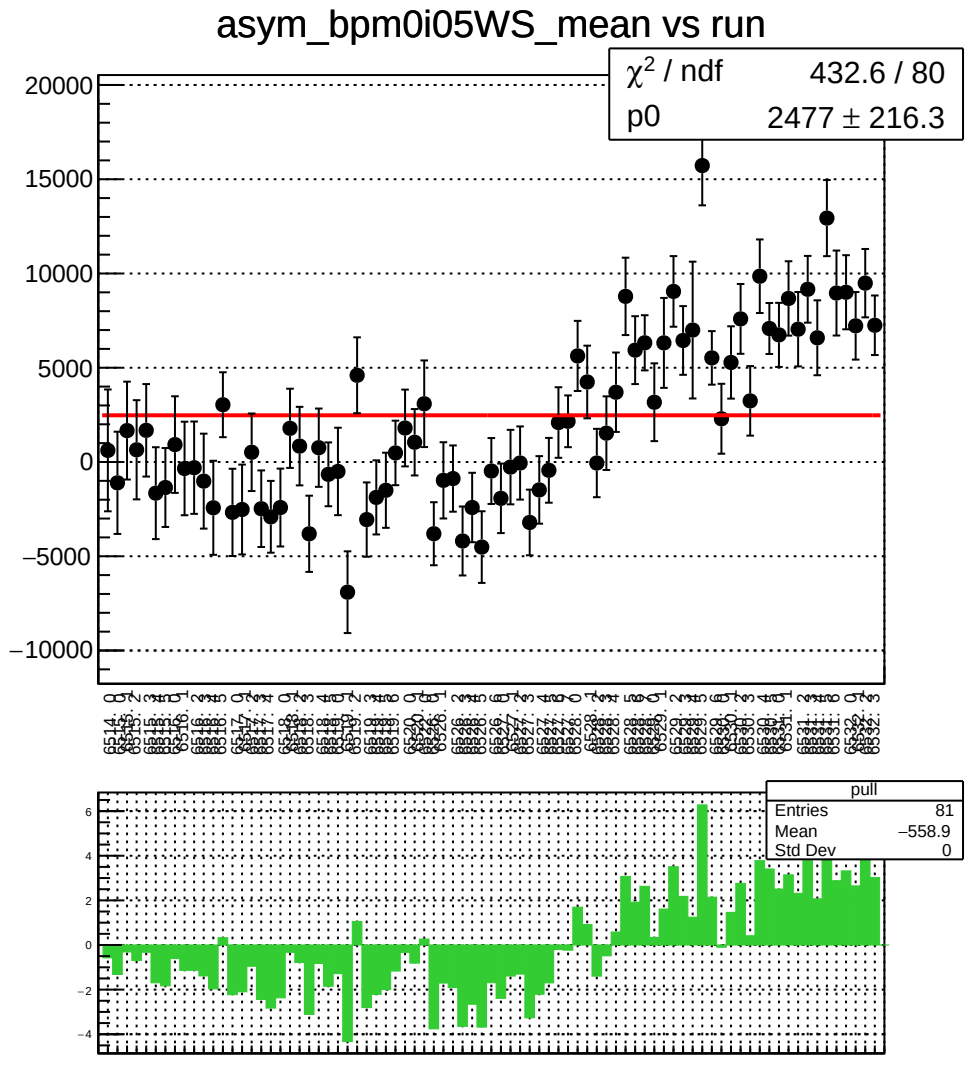

pull1D
Entries 81
Mean 0.05803
Std Dev 3.612

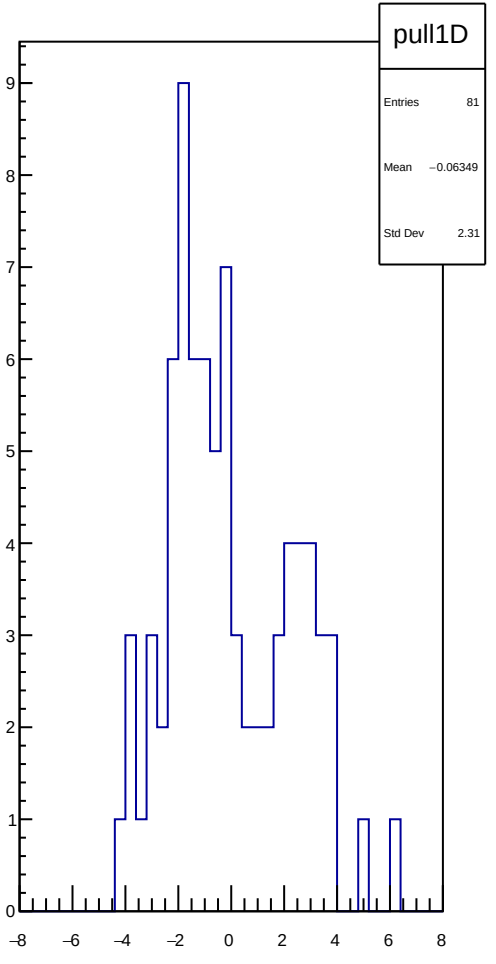

asym_bpm0i02WS_rms vs run
χ² / ndf 1.341e+04 / 80
p0 163.6 ± 0.1315
350
300
250
200
150

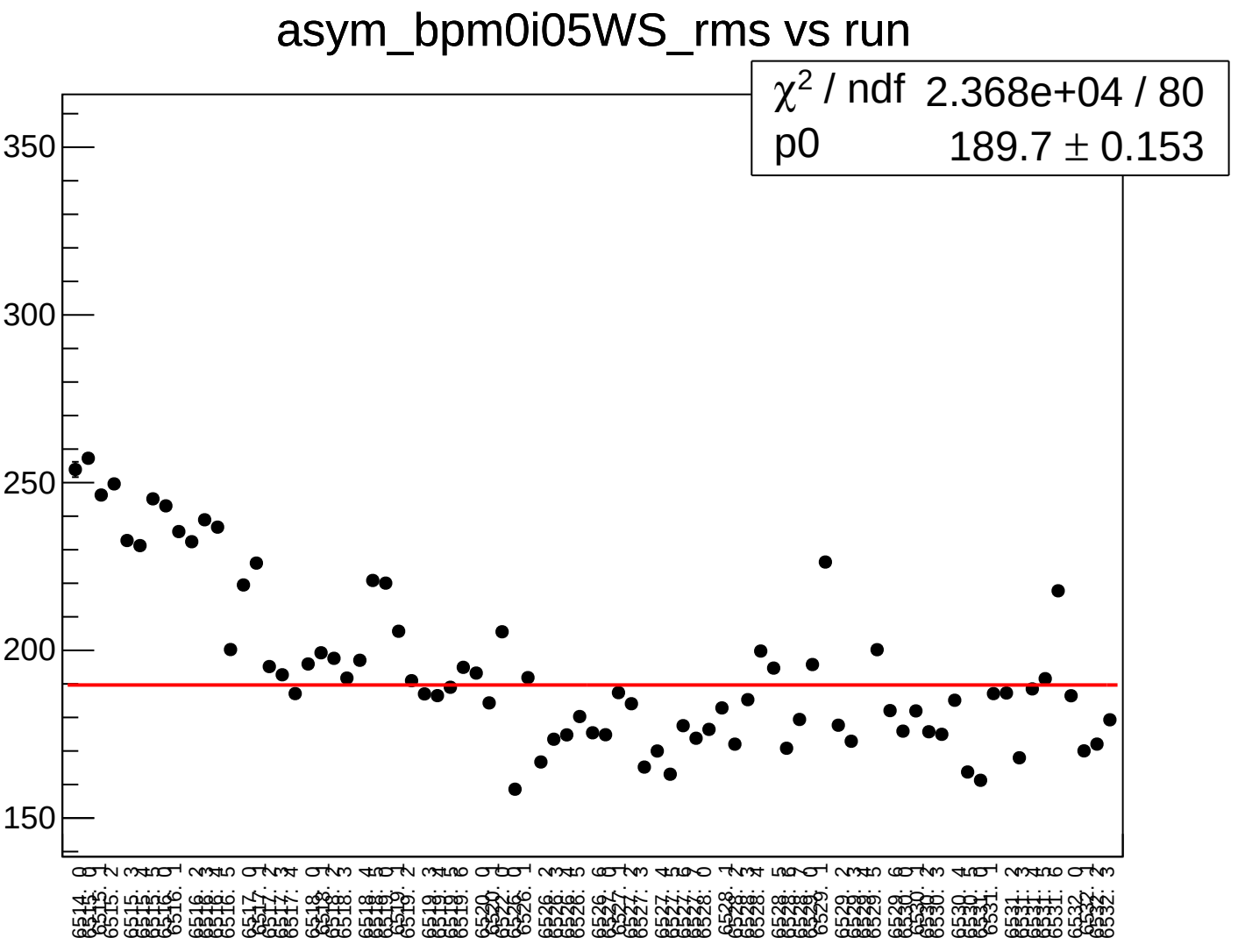

asym_bpm0i02aWS_mean vs run
χ² / ndf 391 / 80
p0 1118 ± 205.4
15000
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −3.706e+04
Std Dev 0
6
4
2
0
−2
−4

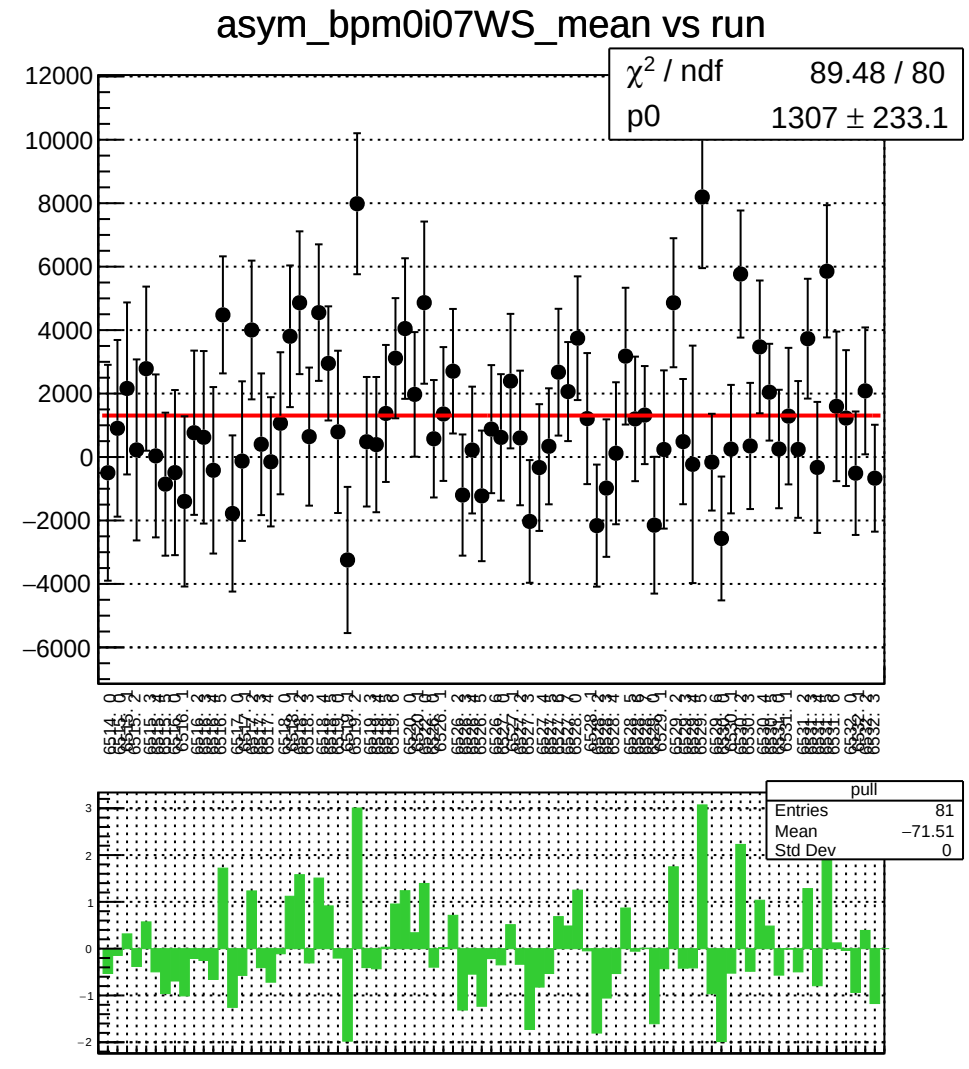

pull1D
Entries 81
Mean −0.0005787
Std Dev 2.197
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

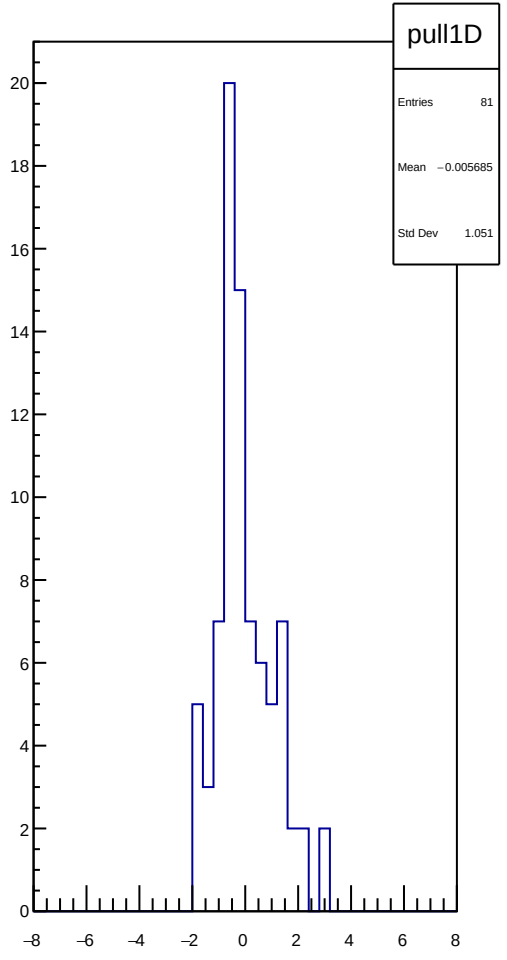

asym_bpm0i02aWS_rms vs run
χ² / ndf 1.787e+04 / 80
p0 180.4 ± 0.1452
350
300
250
200
150

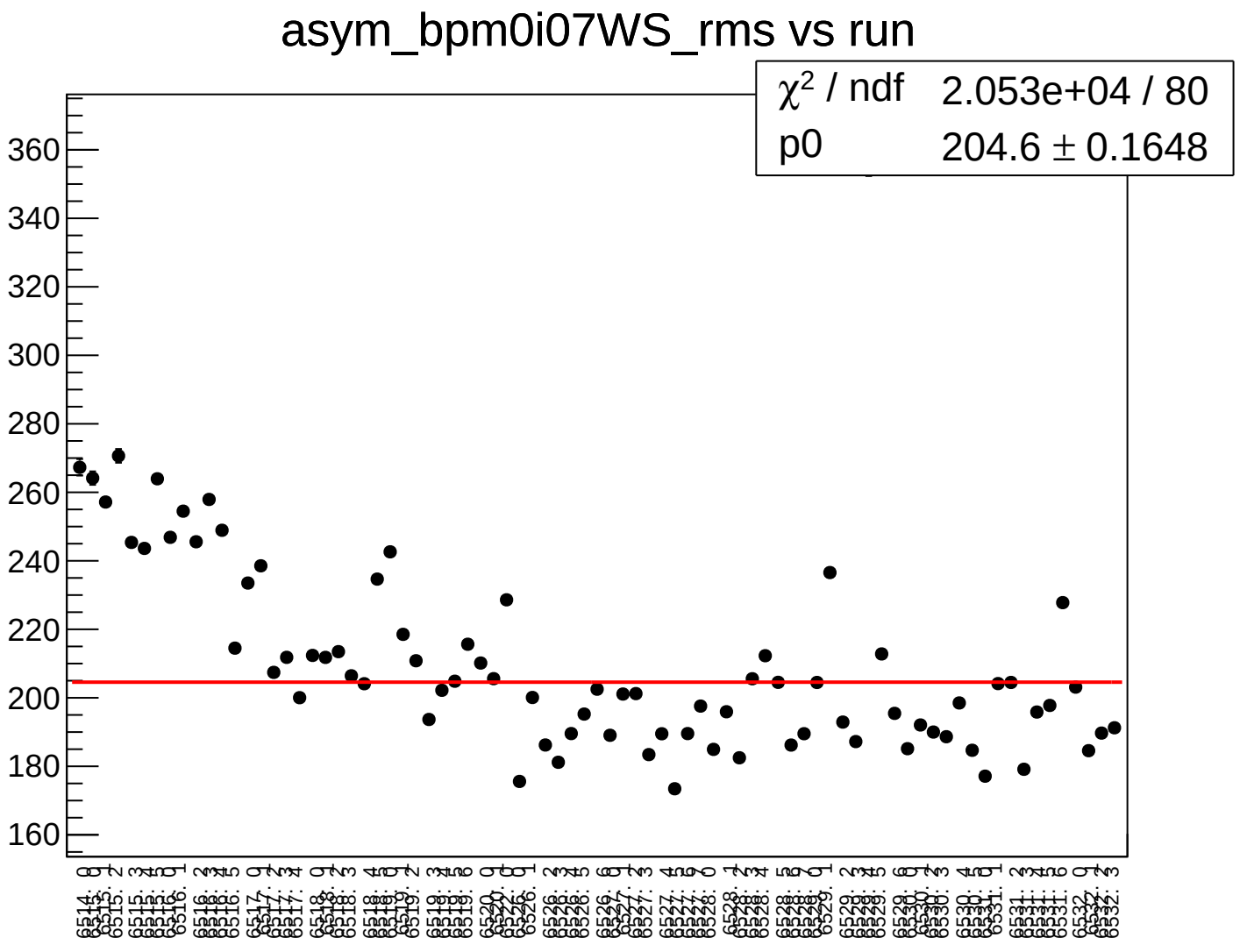

asym_bpm0i05WS_mean vs run
χ² / ndf 432.6 / 80
p0 2477 ± 216.3
pull
Entries 81
Mean −558.9
Std Dev 0

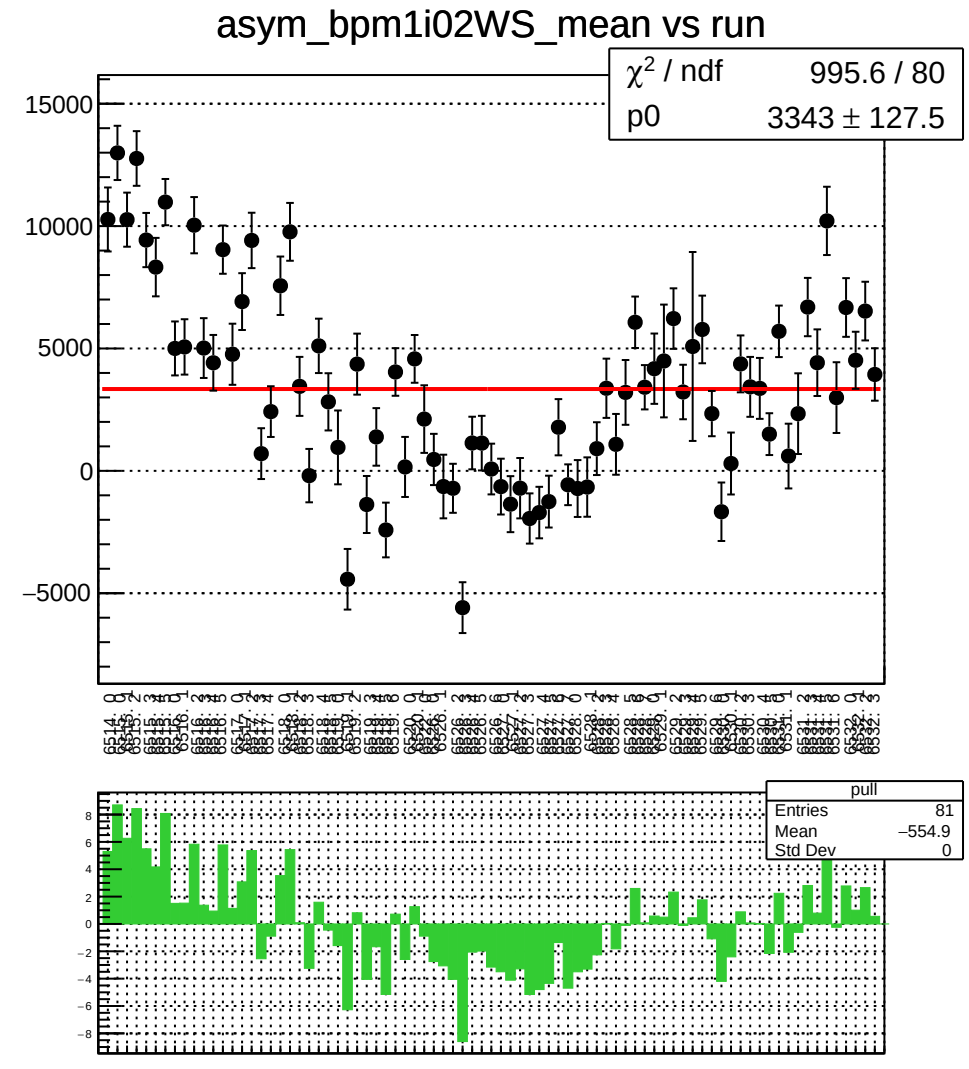

pull1D
Entries 81
Mean −0.06349
Std Dev 2.31

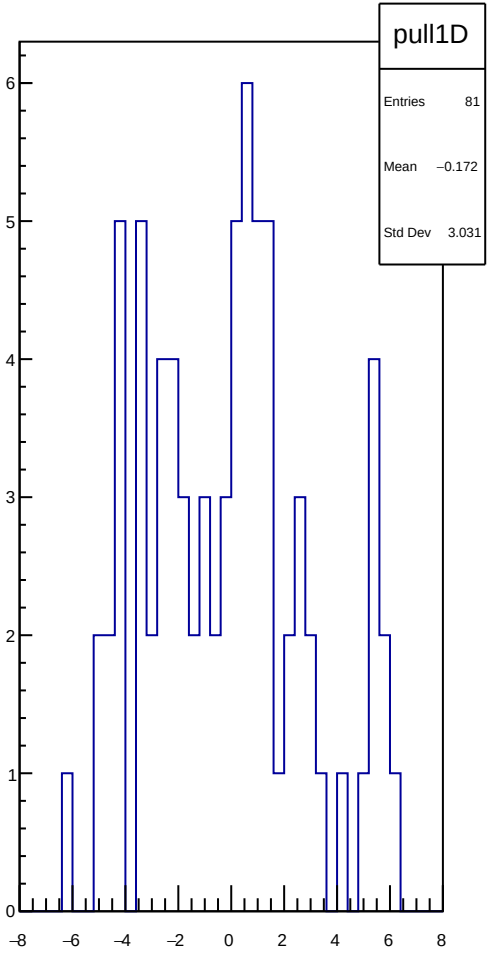

asym_bpm0i05WS_rms vs run
χ^2 / ndf 2.368e+04 / 80
p0 189.7 ± 0.153
350
300
250
200
150

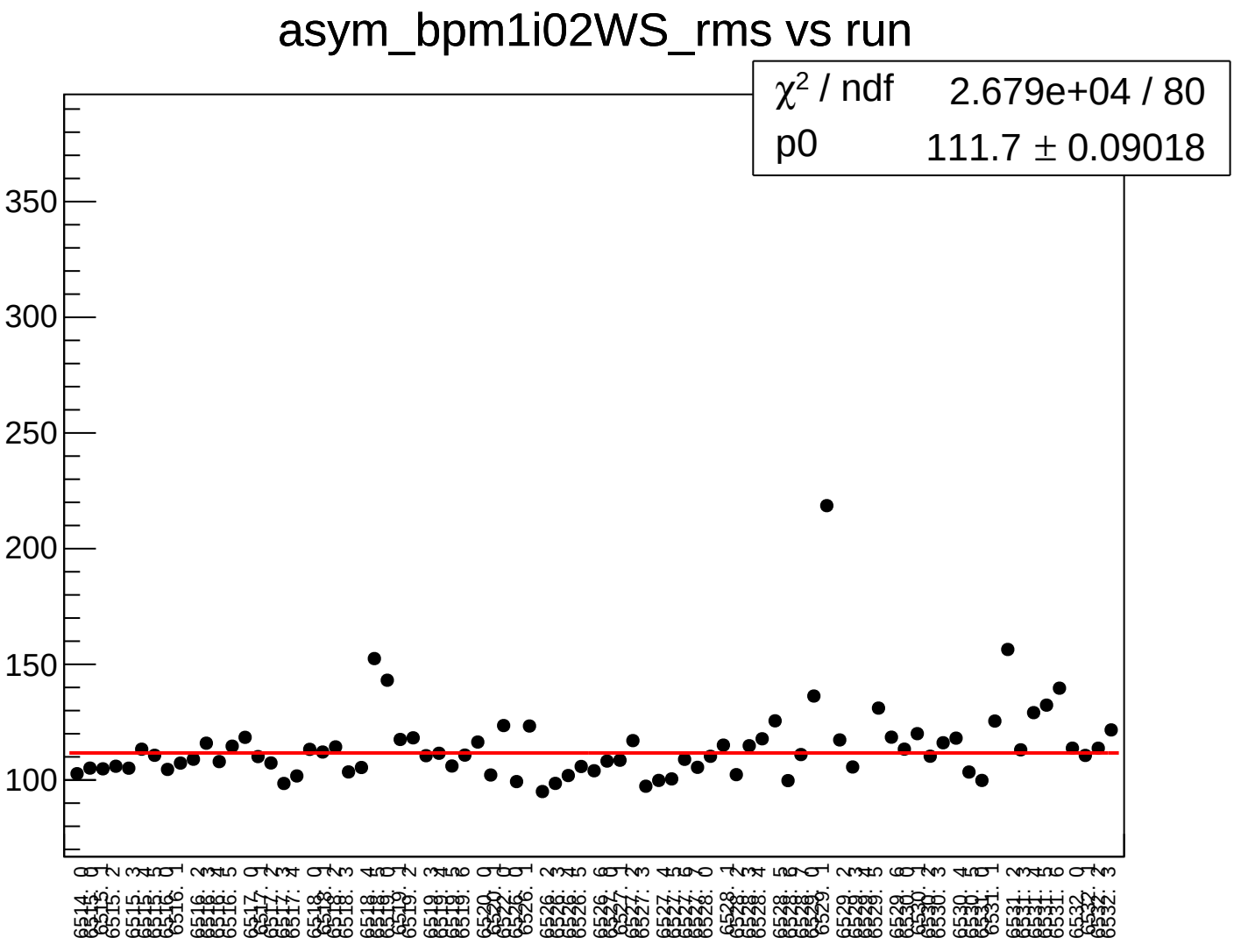

asym_bpm0i07WS_mean vs run
χ² / ndf 89.48 / 80
p0 1307 ± 233.1
pull
Entries 81
Mean −71.51
Std Dev 0

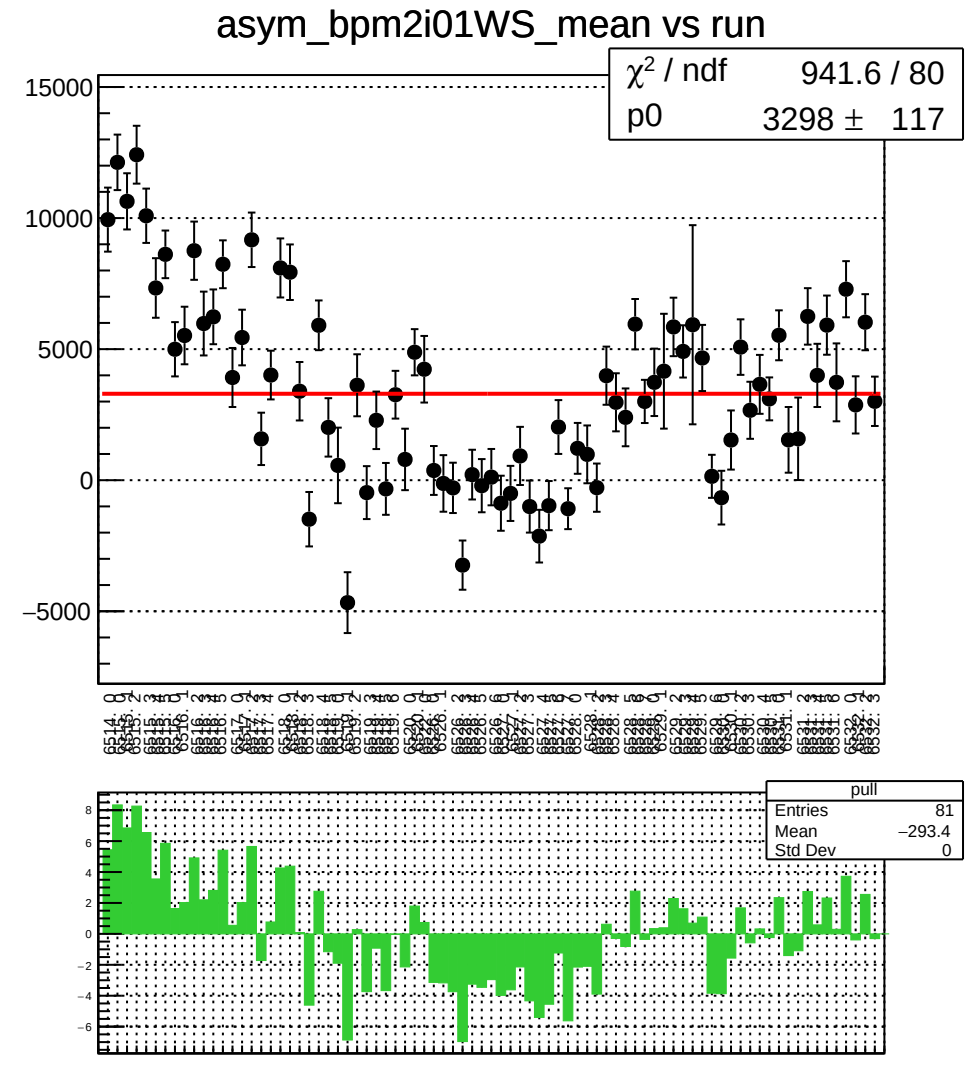

pull1D
Entries 81
Mean −0.005685
Std Dev 1.051

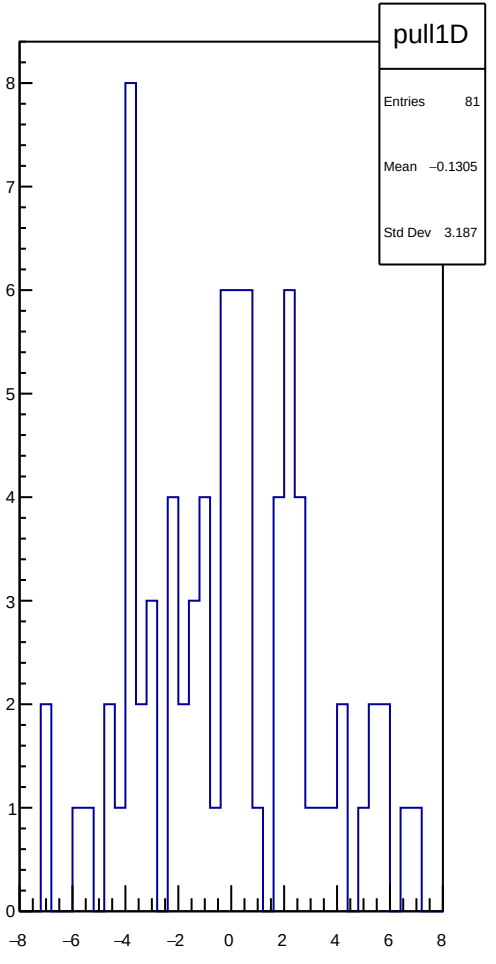

asym_bpm0i07WS_rms vs run
χ^2 / ndf 2.053e+04 / 80
p0 204.6 ± 0.1648
360
340
320
300
280
260
240
220
200
180
160

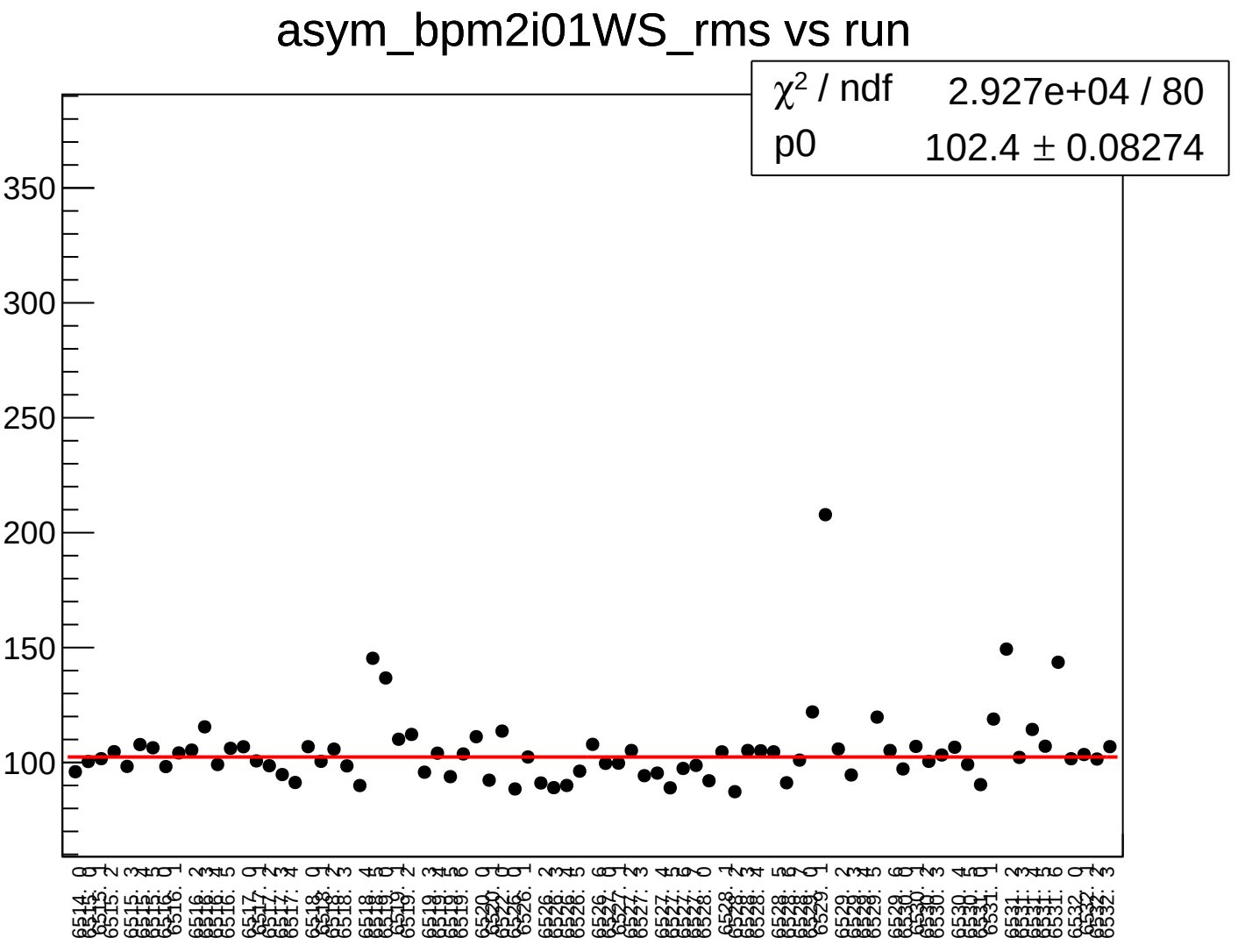

asym_bpm1i02WS_mean vs run
χ² / ndf 995.6 / 80
p0 3343 ± 127.5
15000
10000
5000
0
−5000
pull
Entries 81
Mean −554.9
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8

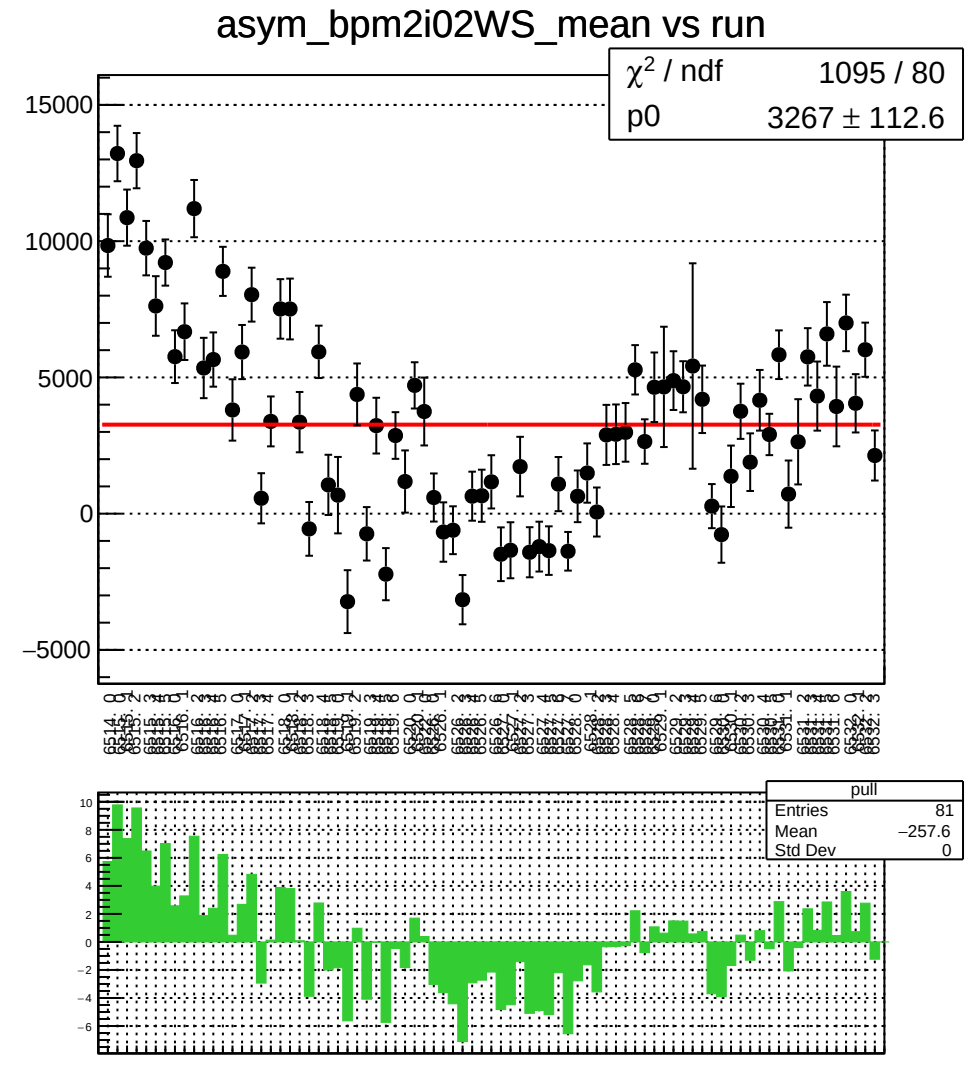

pull1D
Entries 81
Mean −0.172
Std Dev 3.031
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

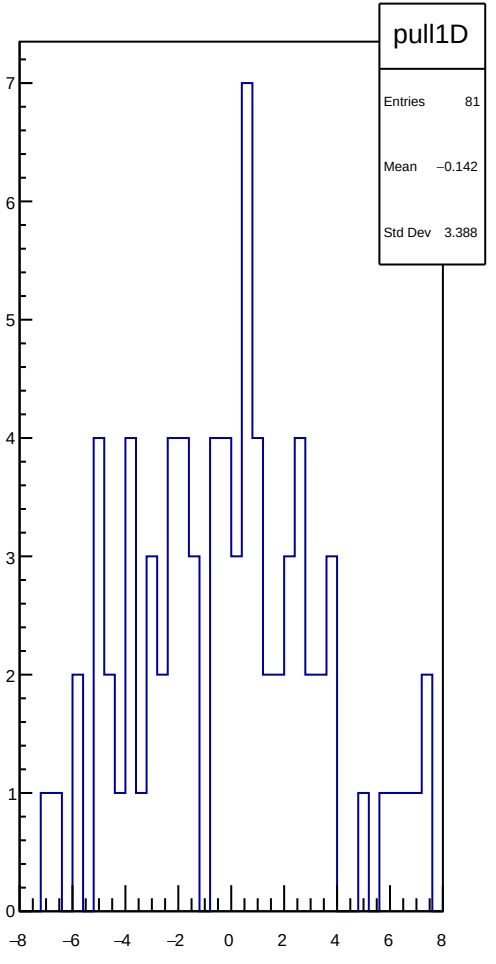

asym_bpm1i02WS_rms vs run
χ² / ndf 2.679e+04 / 80
p0 111.7 ± 0.09018
350
300
250
200
150
100

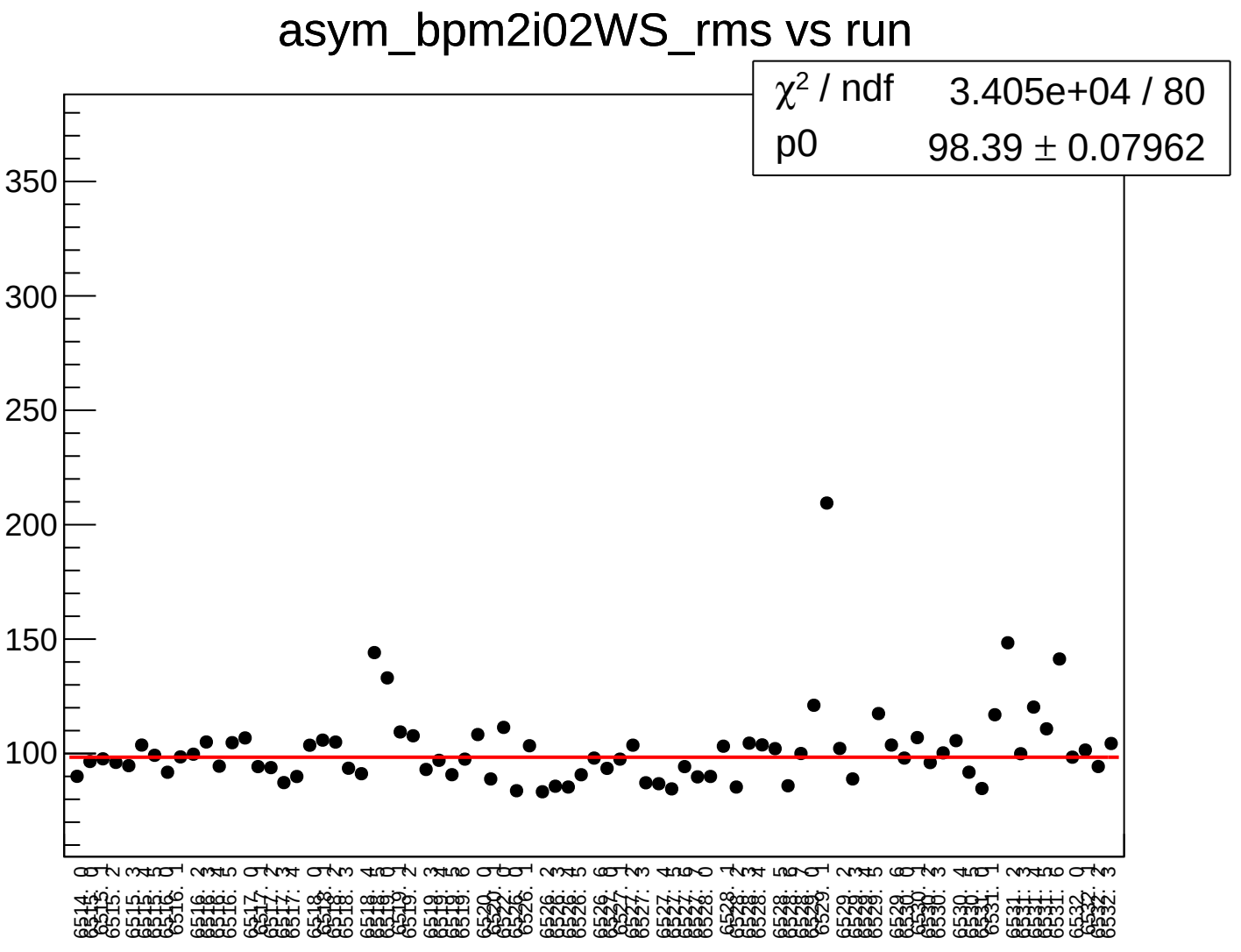

asym_bpm2i01WS_mean vs run
χ² / ndf 941.6 / 80
p0 3298 ± 117
15000
10000
5000
0
−5000
pull
Entries 81
Mean −293.4
Std Dev 0
8
6
4
2
0
−2
−4
−6

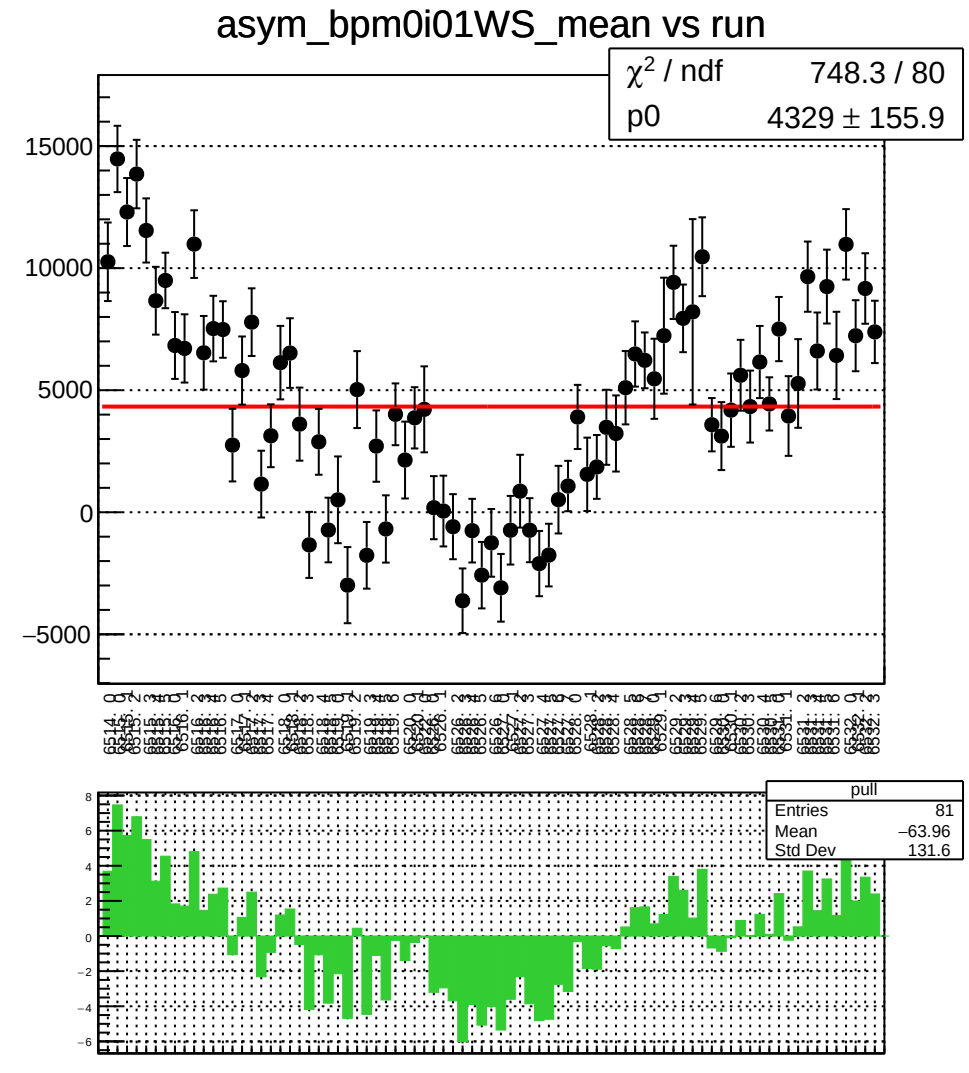

pull1D
Entries 81
Mean −0.1305
Std Dev 3.187
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

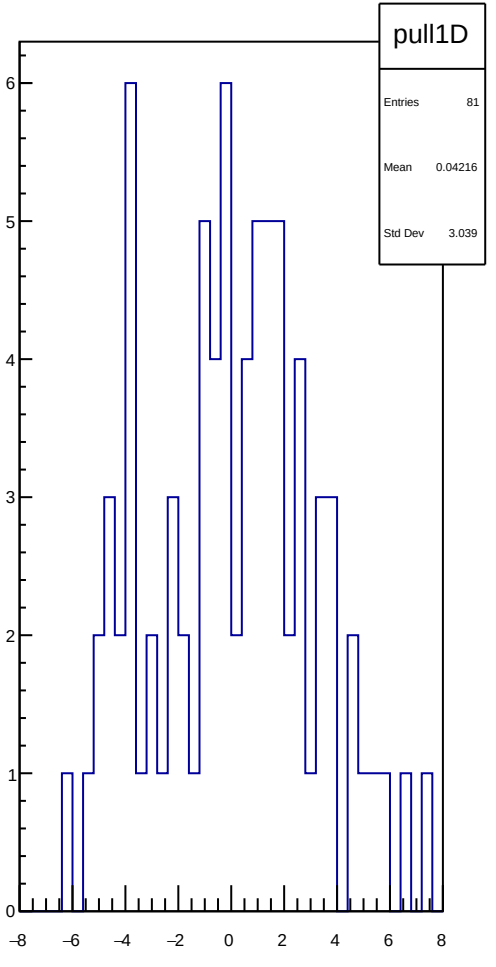

asym_bpm2i01WS_rms vs run
χ² / ndf 2.927e+04 / 80
p0 102.4 ± 0.08274
350
300
250
200
150
100

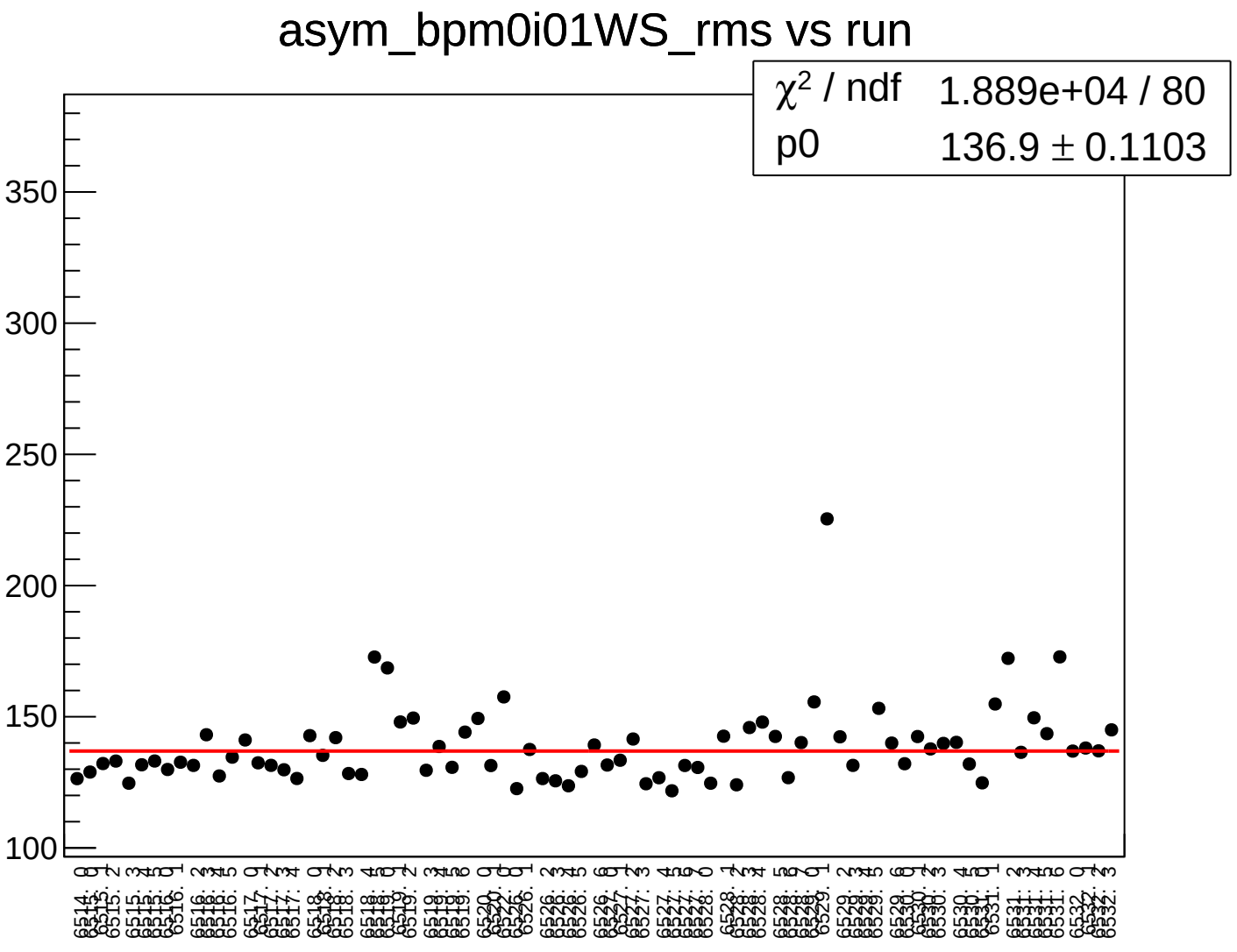

asym_bpm2i02WS_mean vs run
χ² / ndf 1095 / 80
p0 3267 ± 112.6
15000
10000
5000
0
−5000
pull
Entries 81
Mean −257.6
Std Dev 0
10
8
6
4
2
0
−2
−4
−6

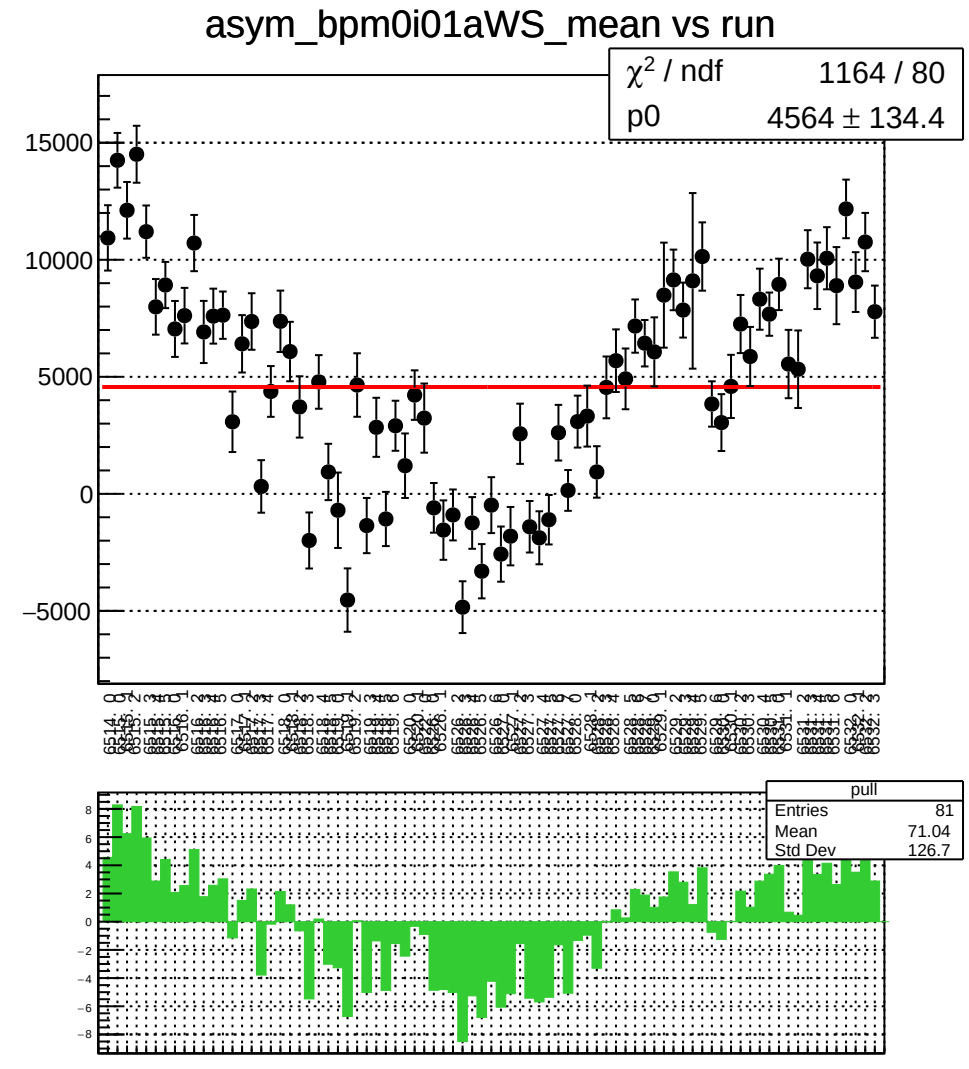

pull1D
Entries 81
Mean −0.142
Std Dev 3.388
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

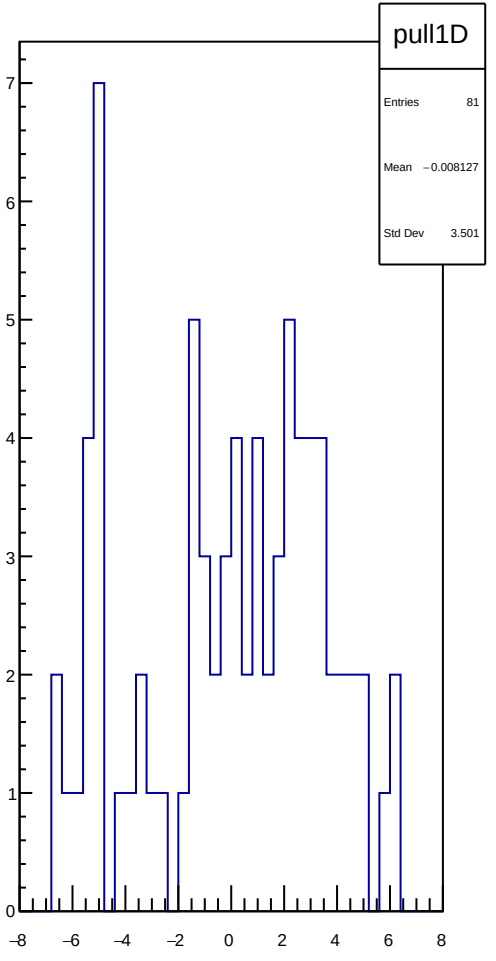

asym_bpm2i02WS_rms vs run
χ^2 / ndf 3.405e+04 / 80
p0 98.39 ± 0.07962
350
300
250
200
150
100

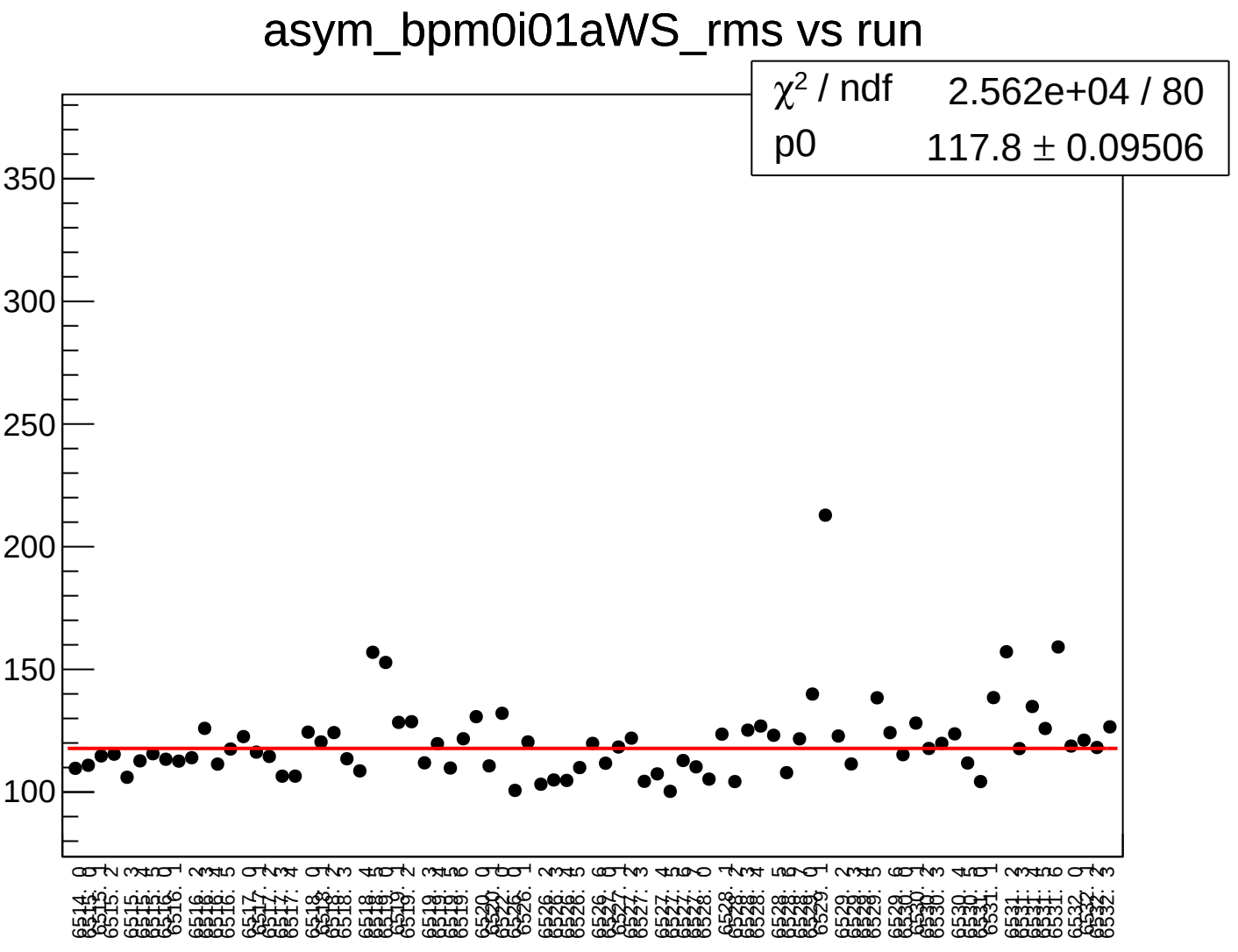

asym_bpm0i01WS_mean vs run
χ² / ndf 748.3 / 80
p0 4329 ± 155.9
15000
10000
5000
0
−5000
pull
Entries 81
Mean −63.96
Std Dev 131.6
8
6
4
2
0
−2
−4
−6

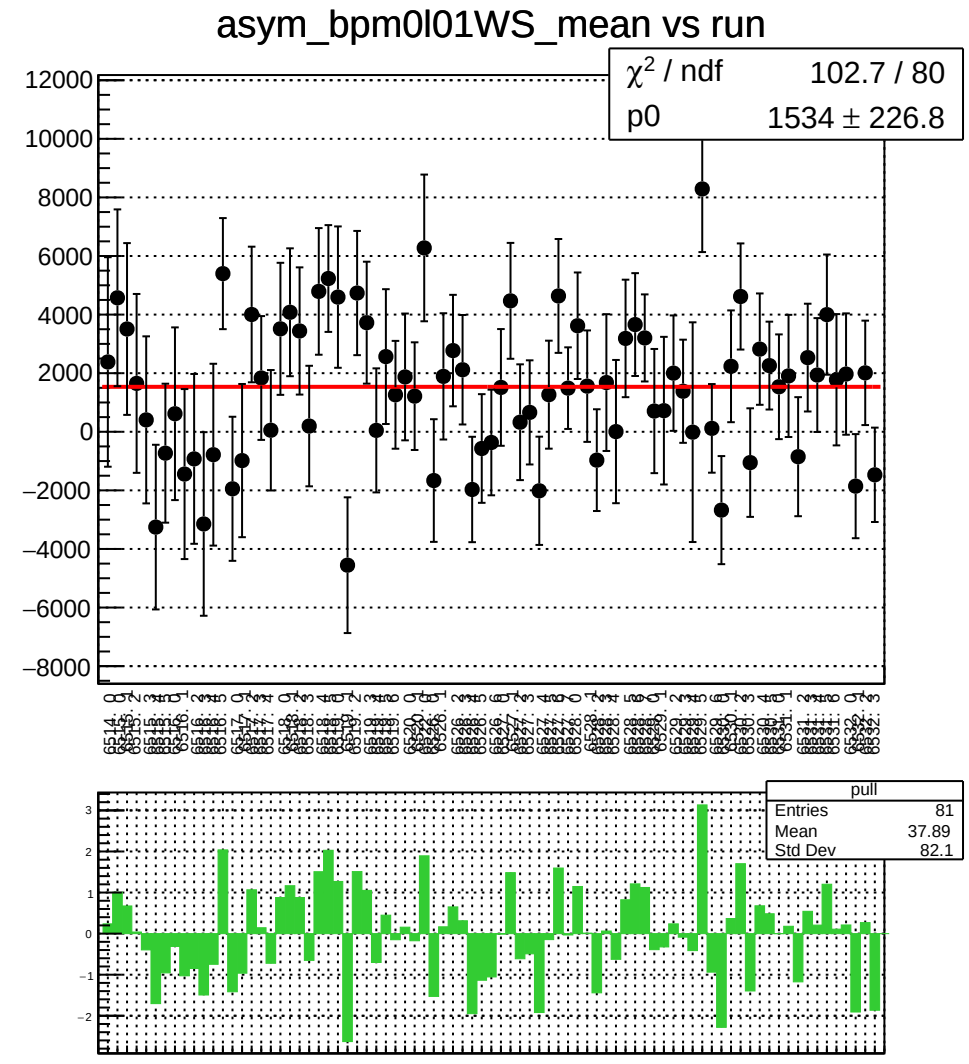

pull1D
Entries 81
Mean 0.04216
Std Dev 3.039
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

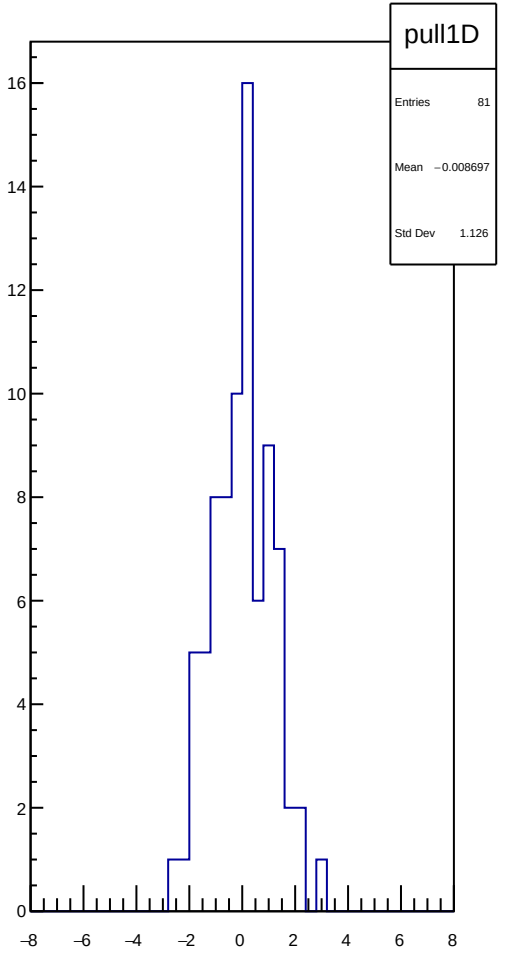

asym_bpm0i01WS_rms vs run
χ² / ndf 1.889e+04 / 80
p0 136.9 ± 0.1103
350
300
250
200
150
100

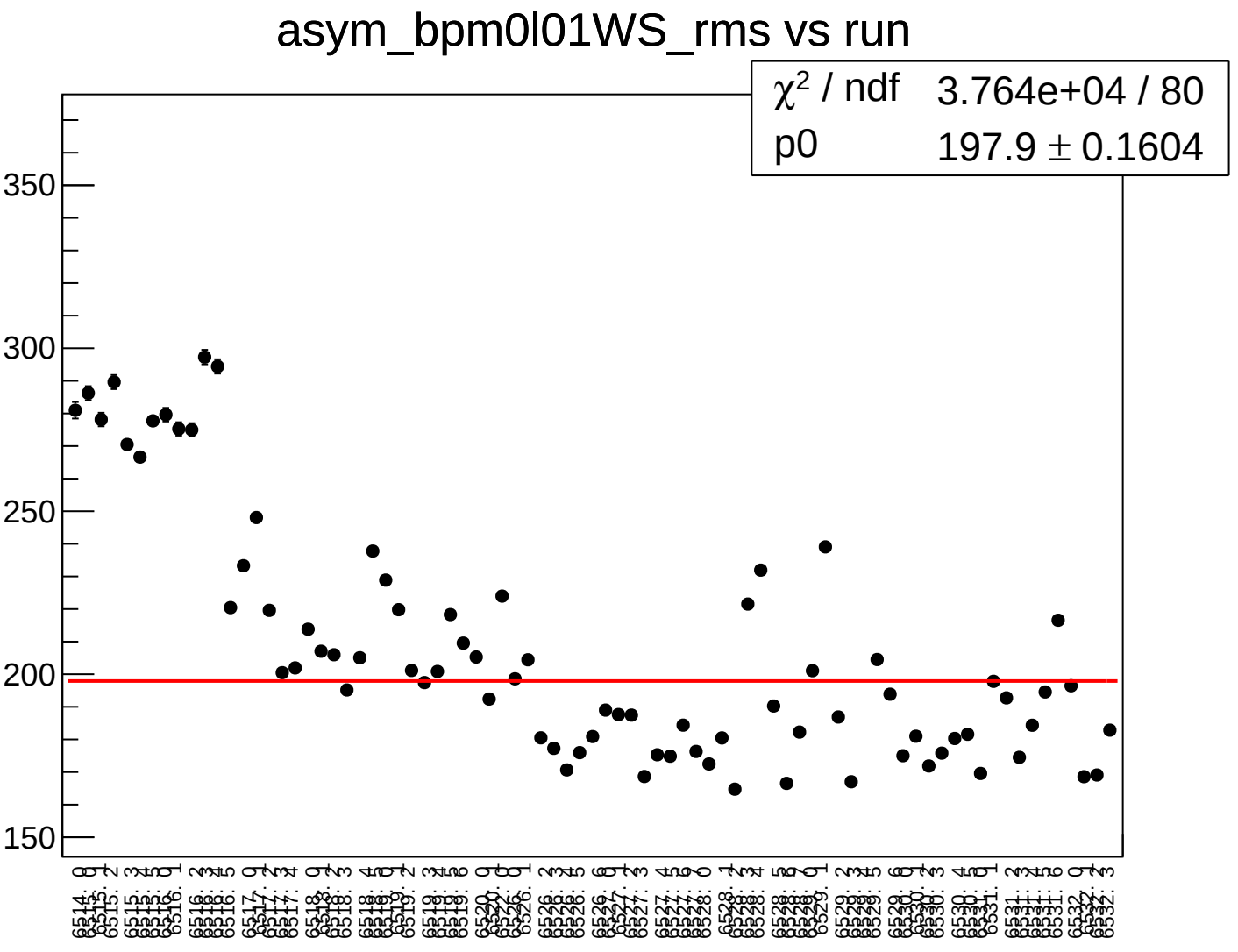

asym_bpm0i01aWS_mean vs run
χ² / ndf 1164 / 80
p0 4564 ± 134.4
15000
10000
5000
0
−5000
pull
Entries 81
Mean 71.04
Std Dev 126.7
8
6
4
2
0
−2
−4
−6
−8

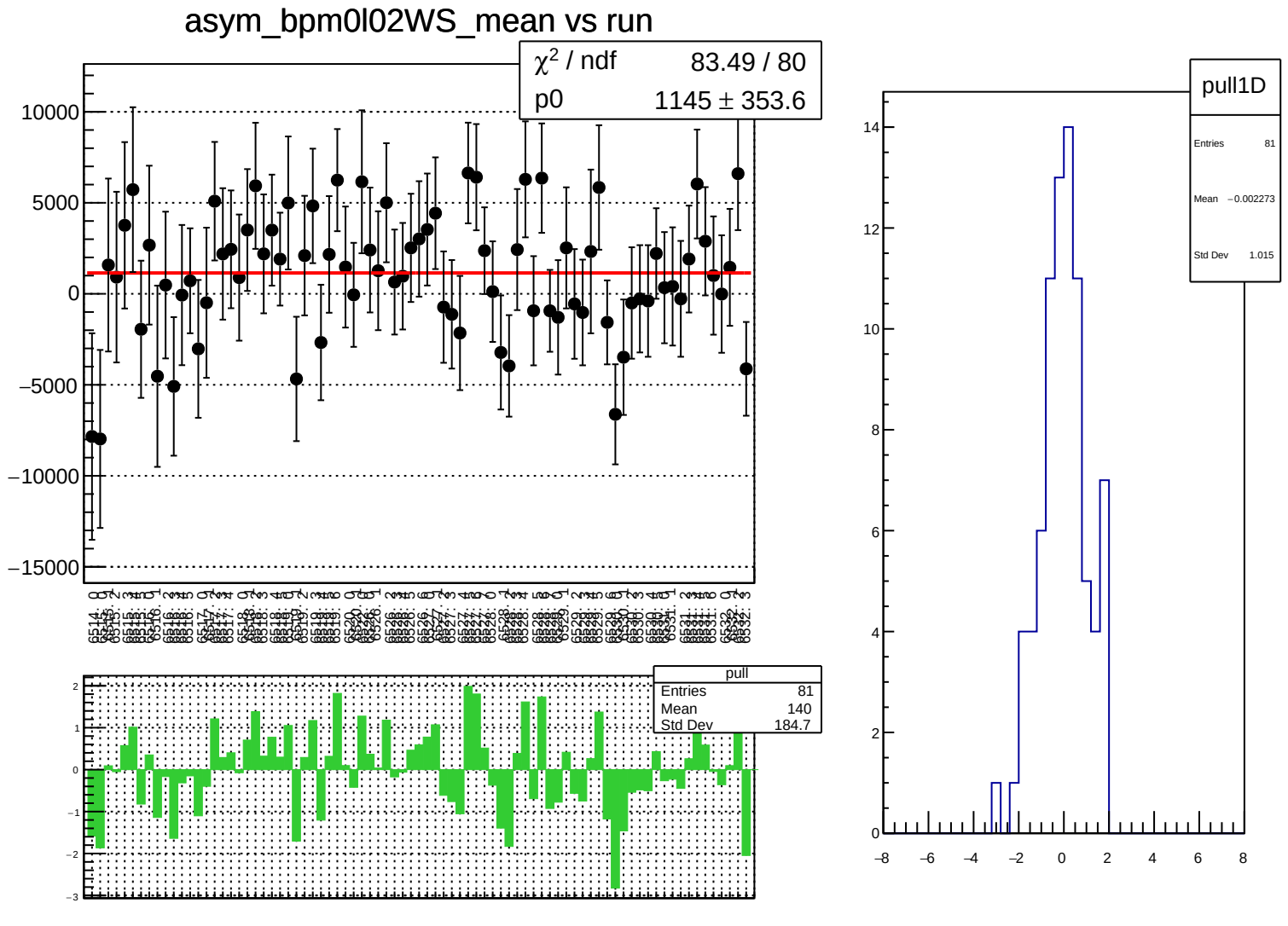

pull1D
Entries 81
Mean −0.008127
Std Dev 3.501
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

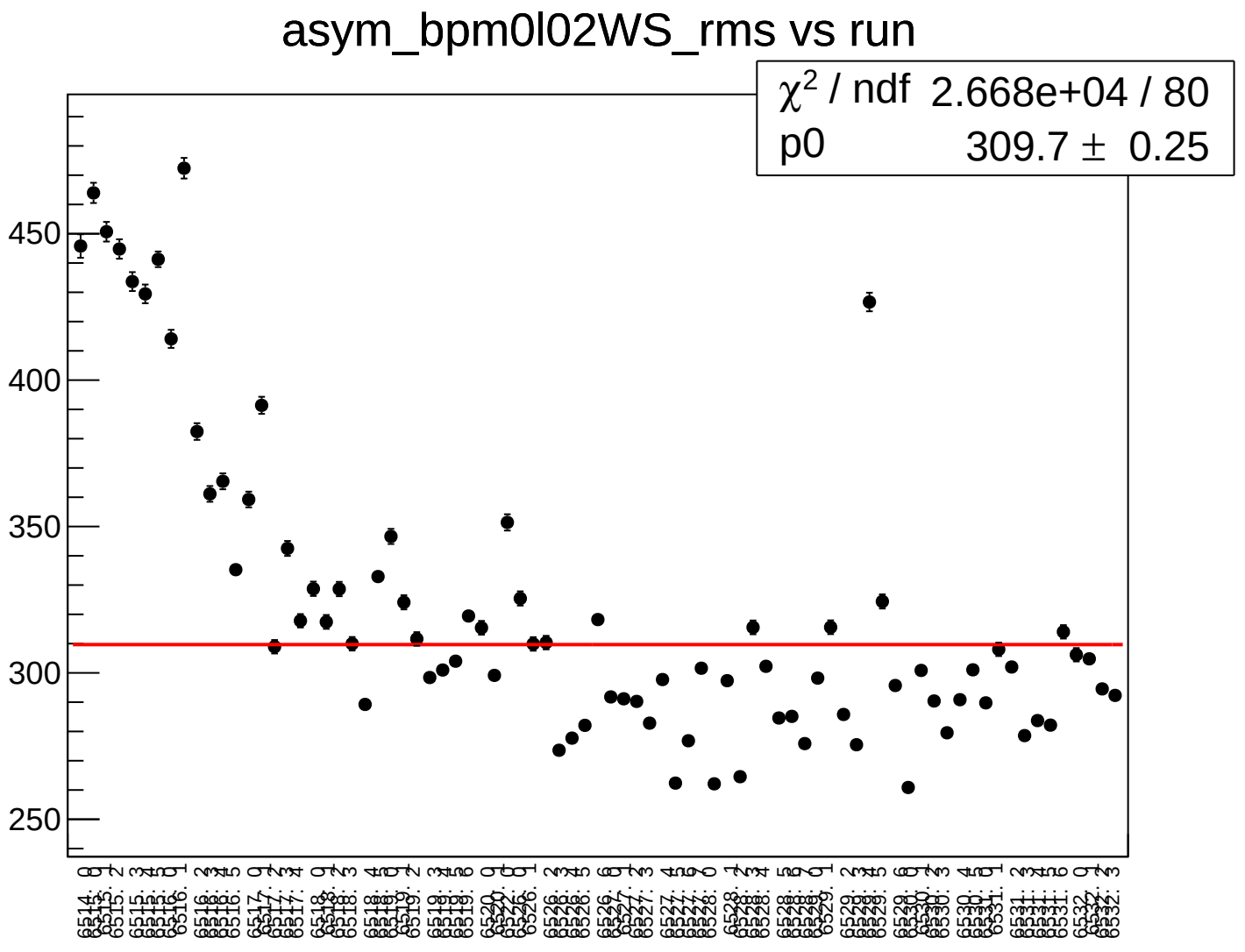

asym_bpm0i01aWS_rms vs run
χ² / ndf 2.562e+04 / 80
p0 117.8 ± 0.09506
350
300
250
200
150
100

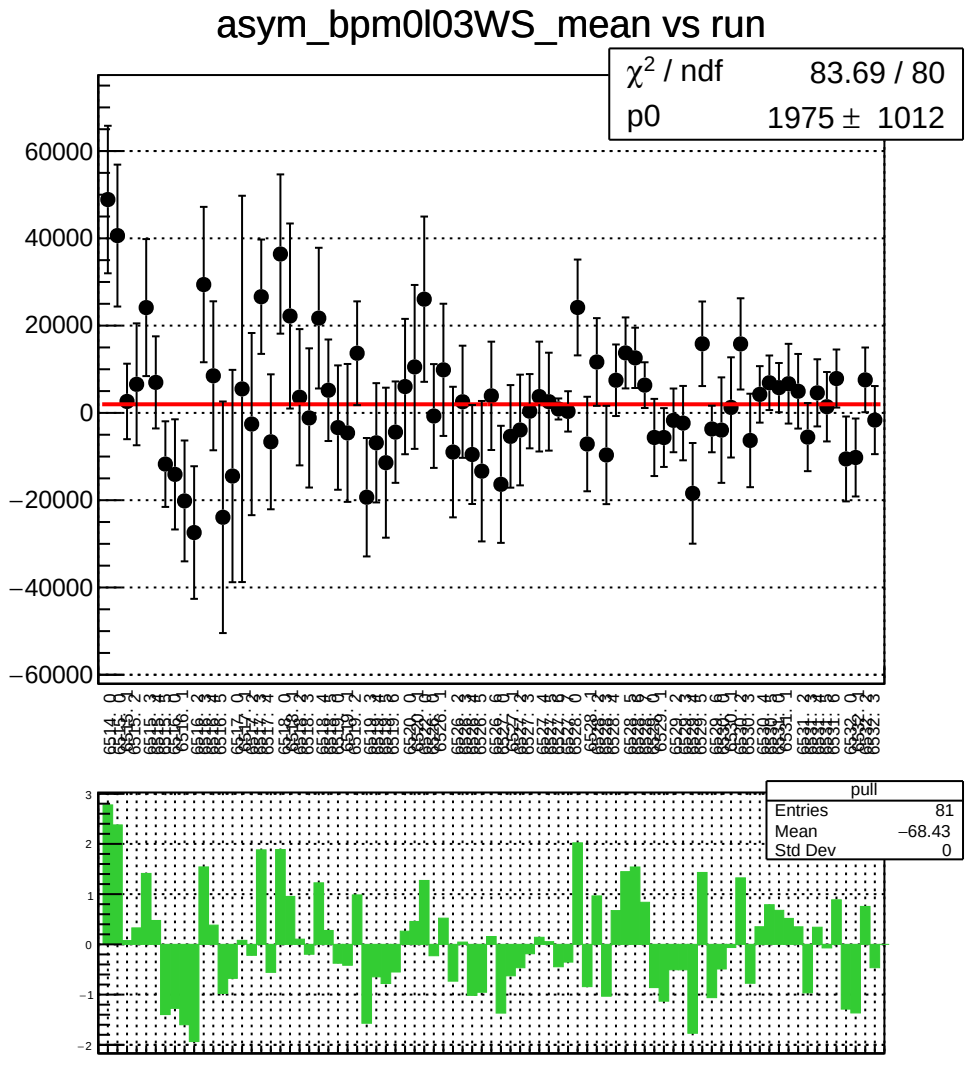

asym_bpm0l01WS_mean vs run
χ² / ndf 102.7 / 80
p0 1534 ± 226.8
pull
Entries 81
Mean 37.89
Std Dev 82.1

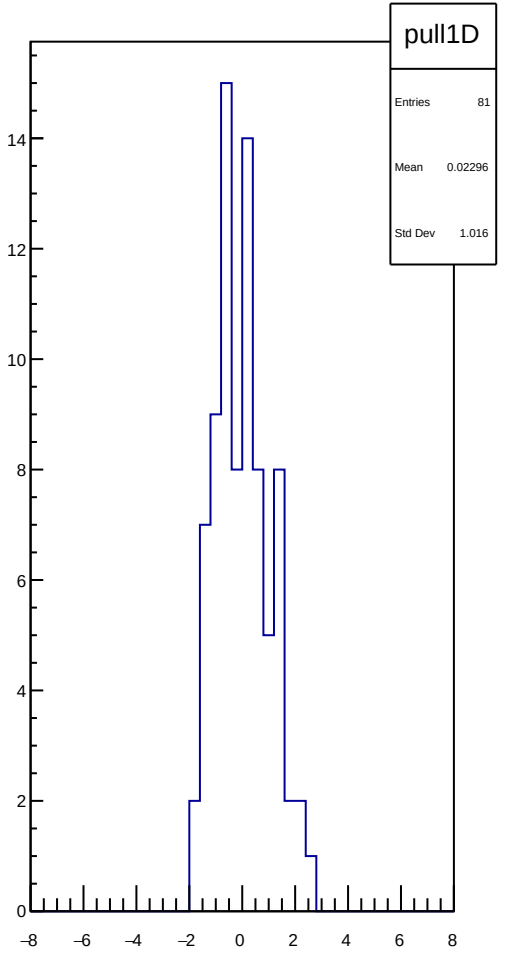

pull1D
Entries 81
Mean −0.008697
Std Dev 1.126

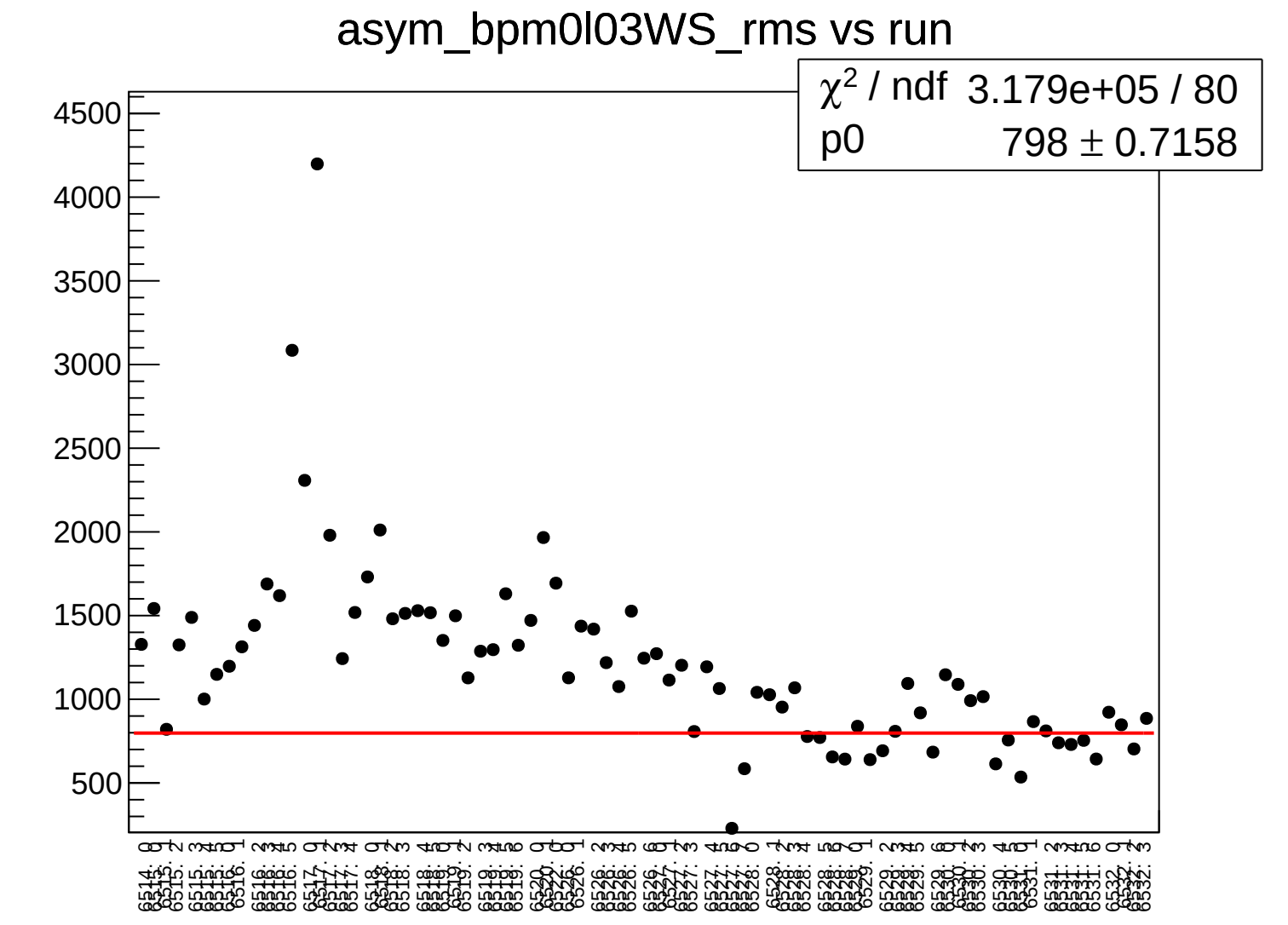

asym_bpm0l01WS_rms vs run
χ² / ndf 3.764e+04 / 80
p0 197.9 ± 0.1604
350
300
250
200
150

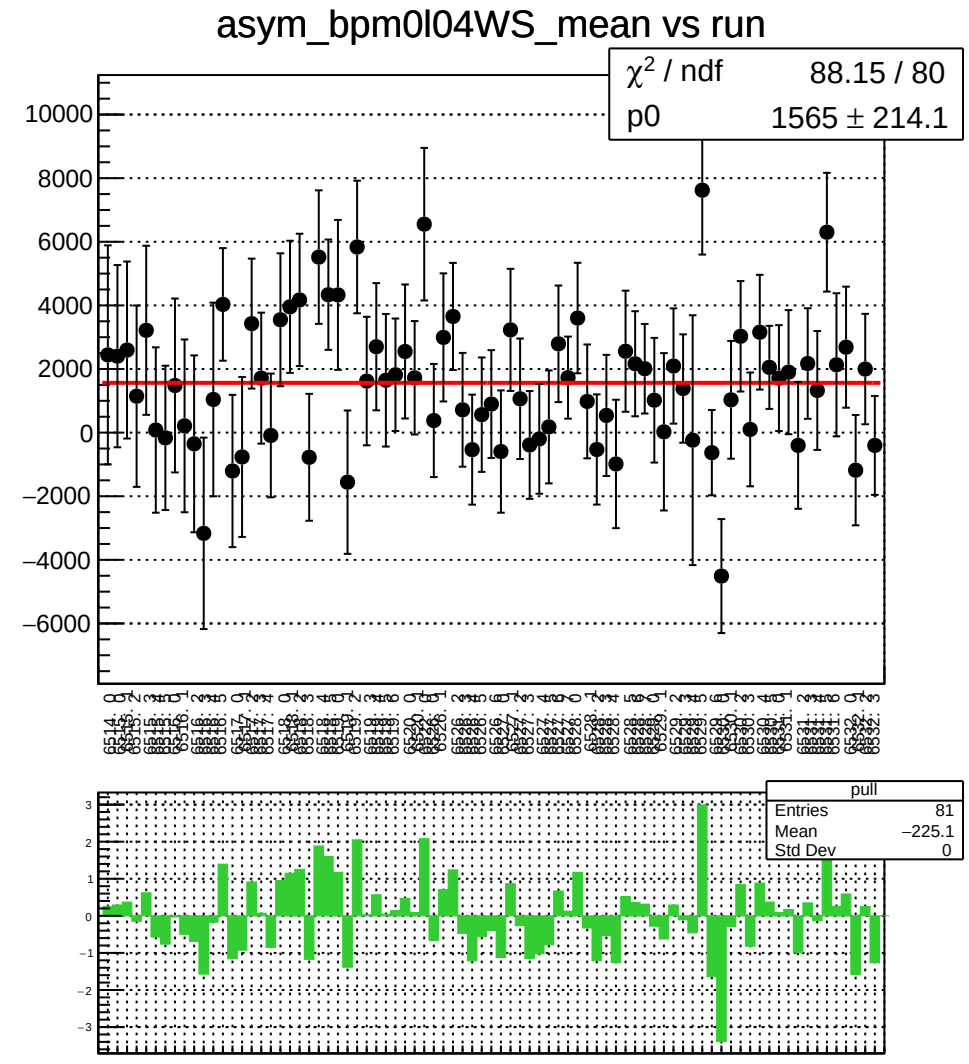

asym_bpm0l02WS_mean vs run
χ² / ndf 83.49 / 80
p0 1145 ± 353.6
pull
Entries 81
Mean 140
Std Dev 184.7
pull1D
Entries 81
Mean −0.002273
Std Dev 1.015

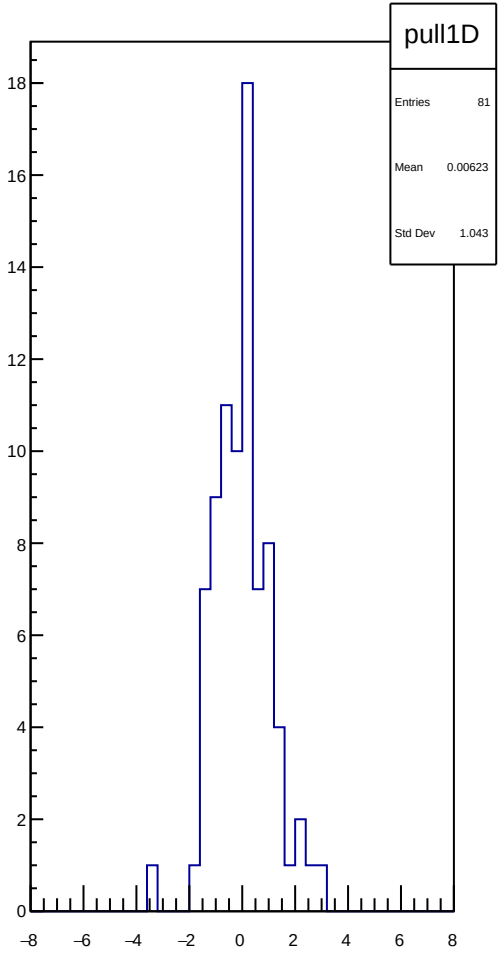

asym_bpm0l02WS_rms vs run
χ^2 / ndf 2.668e+04 / 80
p0 309.7 ± 0.25
450
400
350
300
250

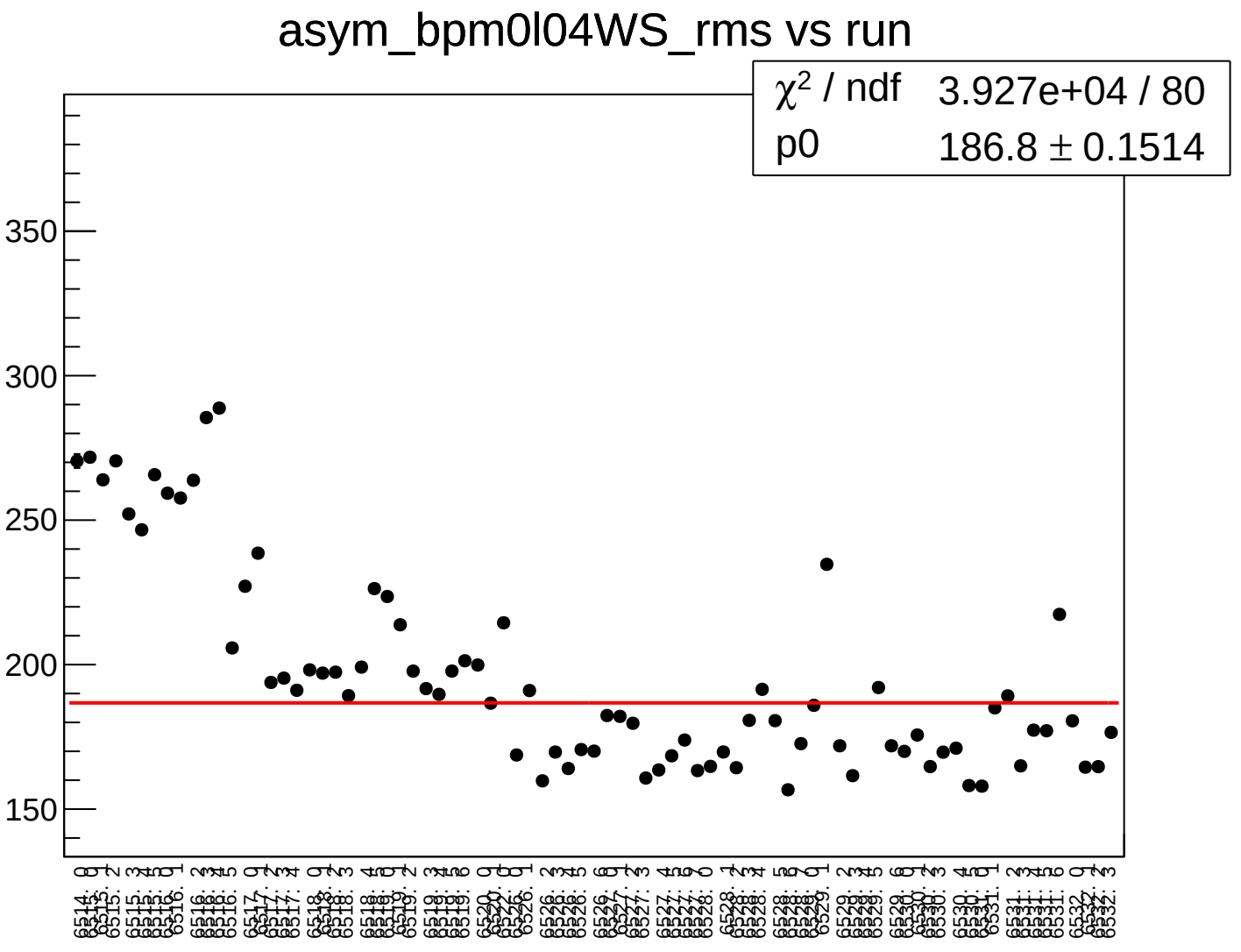

asym_bpm0l03WS_mean vs run
χ² / ndf 83.69 / 80
p0 1975 ± 1012
pull
Entries 81
Mean −68.43
Std Dev 0

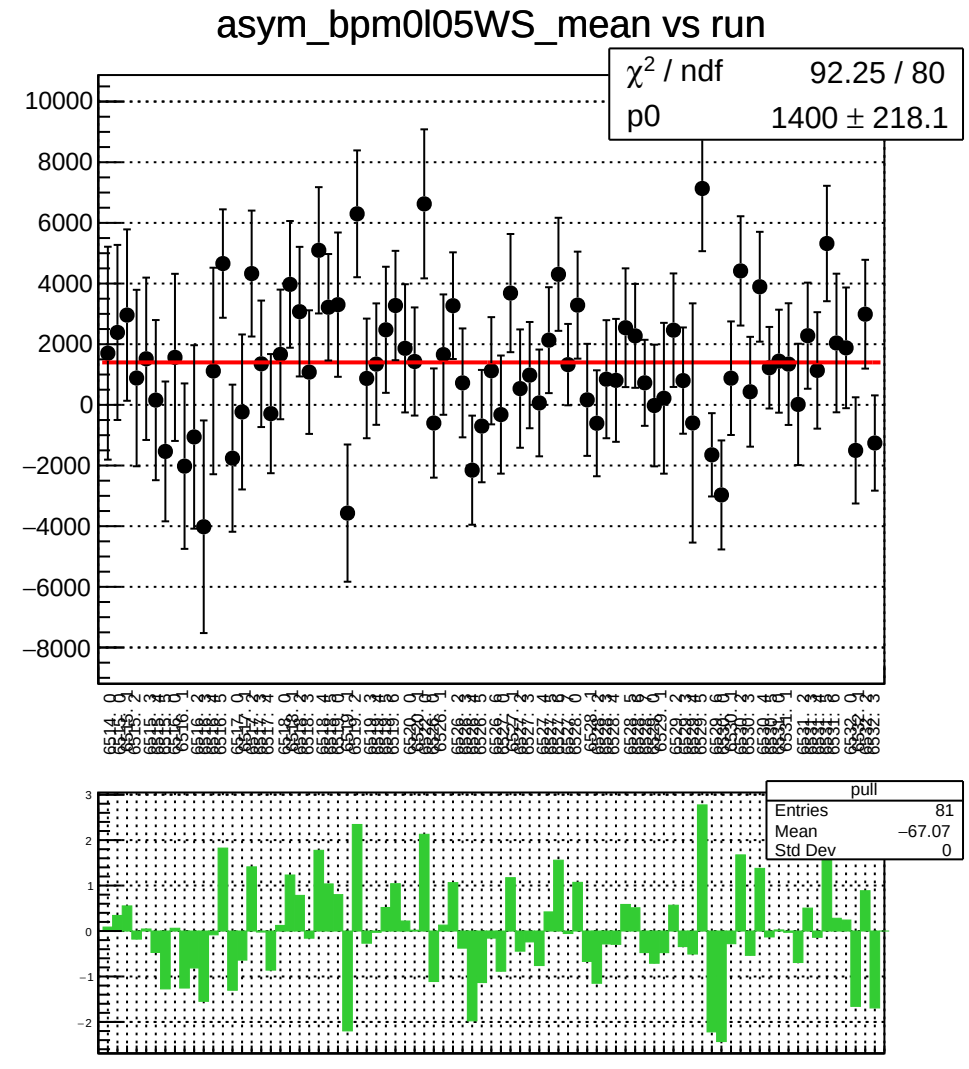

pull1D
Entries 81
Mean 0.02296
Std Dev 1.016

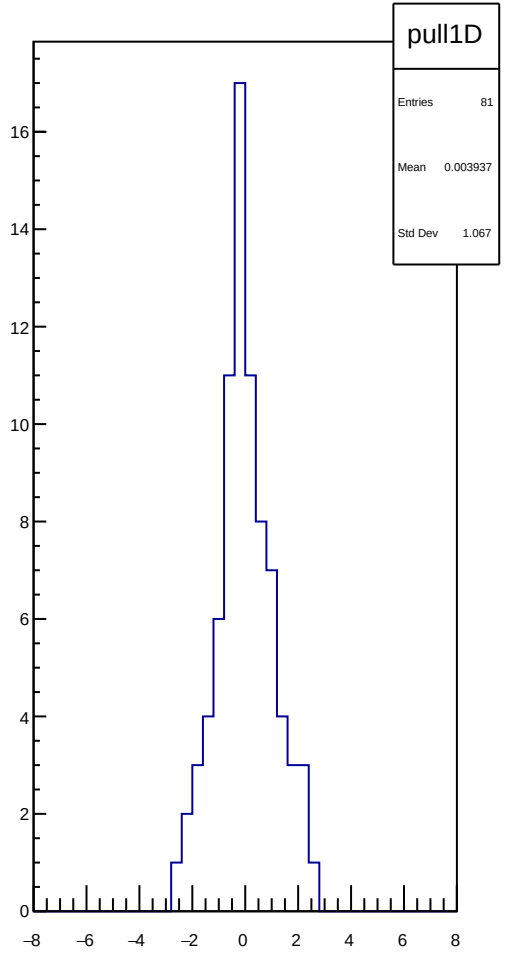

asym_bpm0l03WS_rms vs run
χ^2 / ndf 3.179e+05 / 80
p0 798 ± 0.7158
4500
4000
3500
3000
2500
2000
1500
1000
500

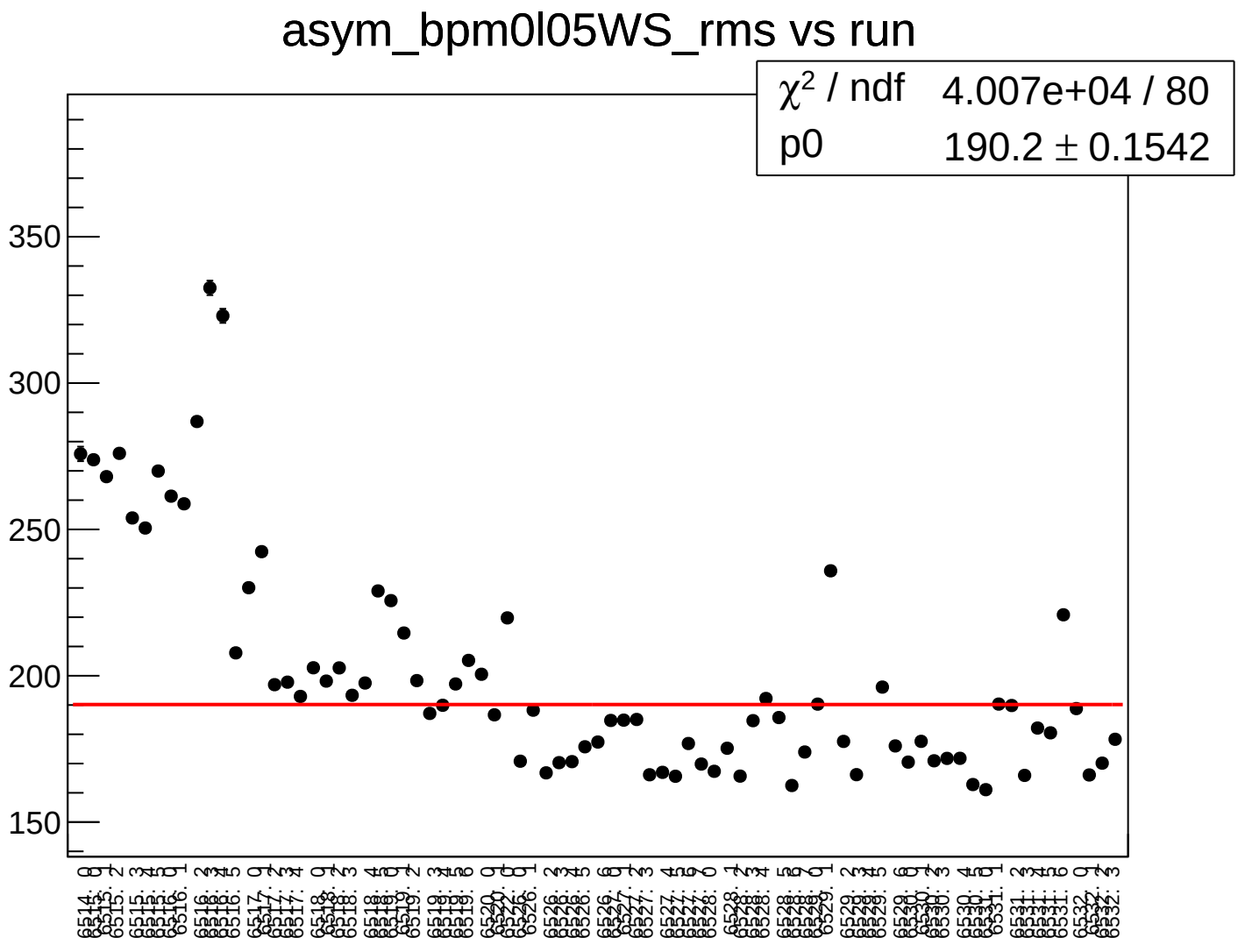

asym_bpm0l04WS_mean vs run
χ^2 / ndf 88.15 / 80
p0 1565 ± 214.1
pull
Entries 81
Mean −225.1
Std Dev 0

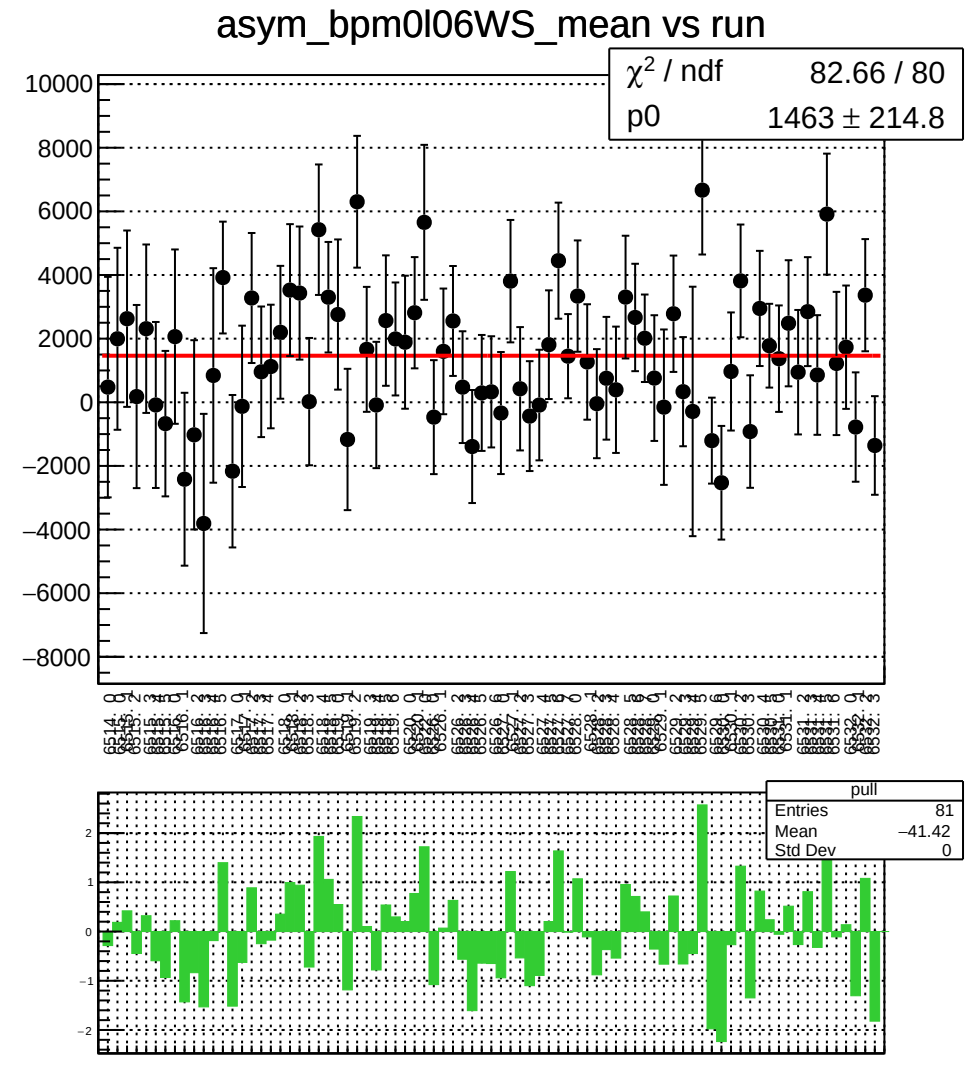

pull1D
Entries 81
Mean 0.00623
Std Dev 1.043

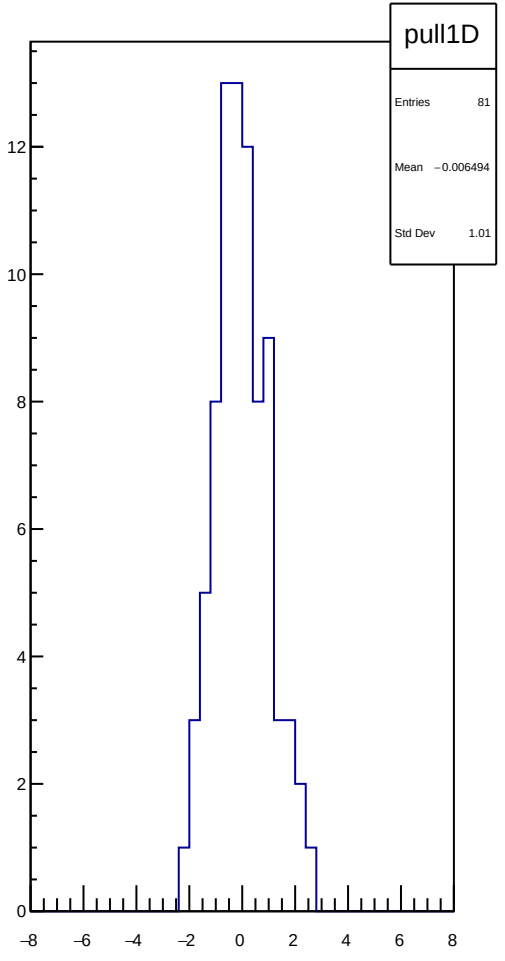

asym_bpm0l04WS_rms vs run
χ² / ndf 3.927e+04 / 80
p0 186.8 ± 0.1514
350
300
250
200
150

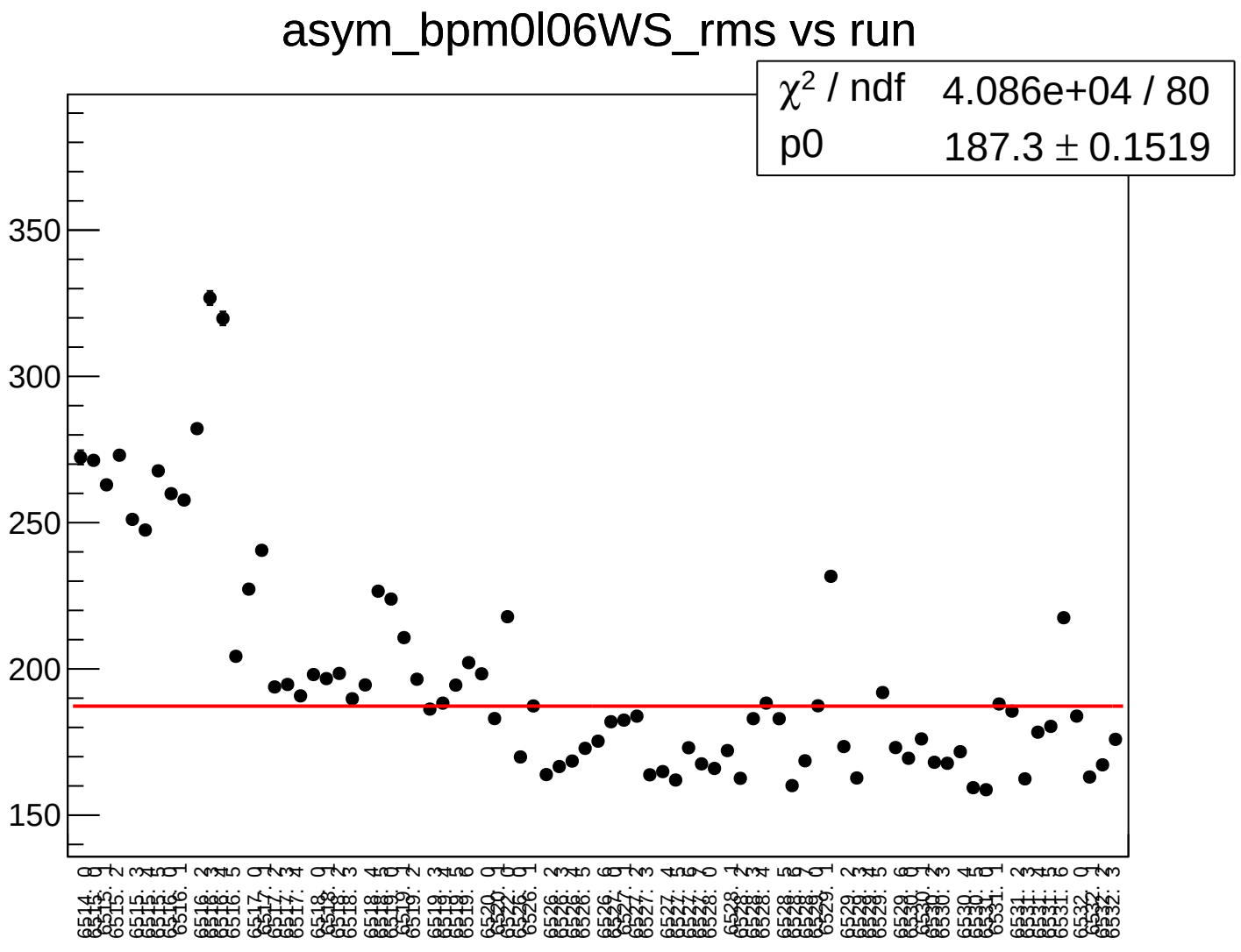

asym_bpm0l05WS_mean vs run
χ² / ndf 92.25 / 80
p0 1400 ± 218.1
pull
Entries 81
Mean −67.07
Std Dev 0

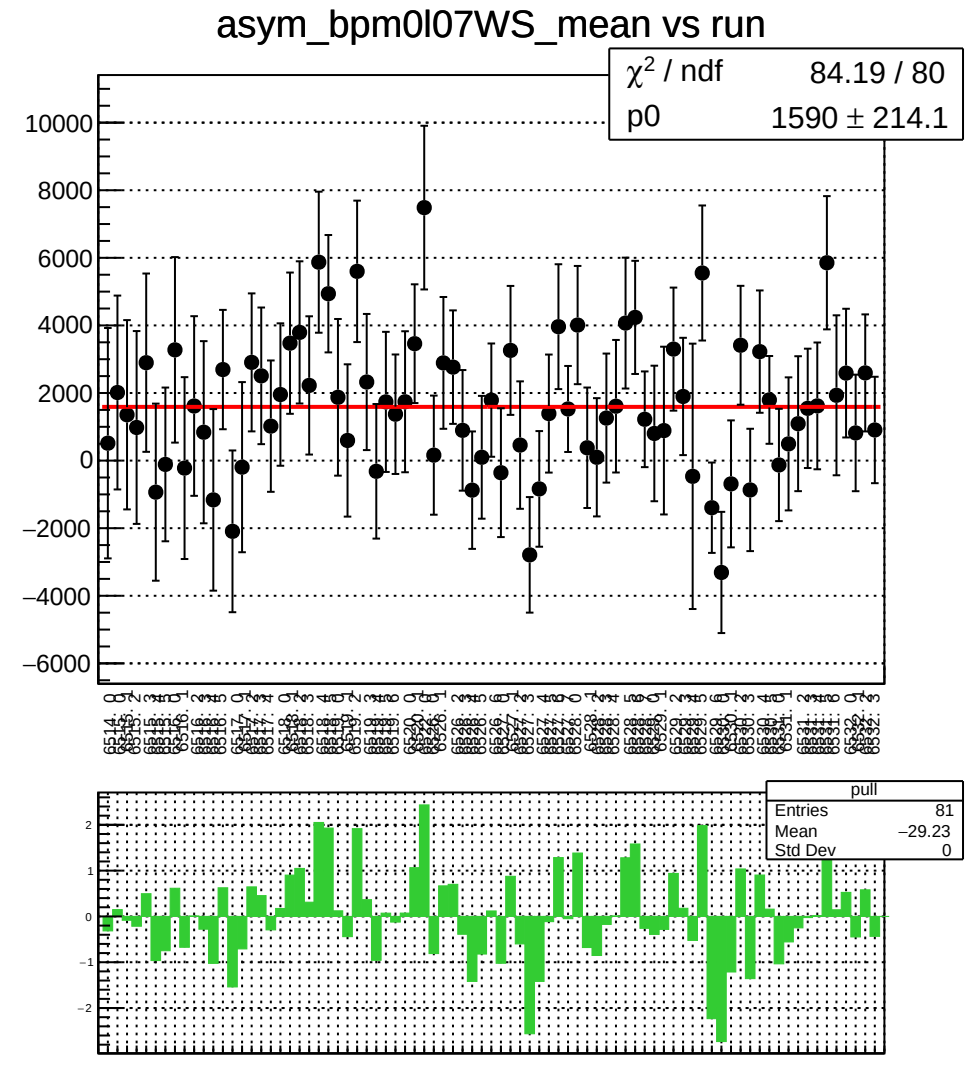

pull1D
Entries 81
Mean 0.003937
Std Dev 1.067

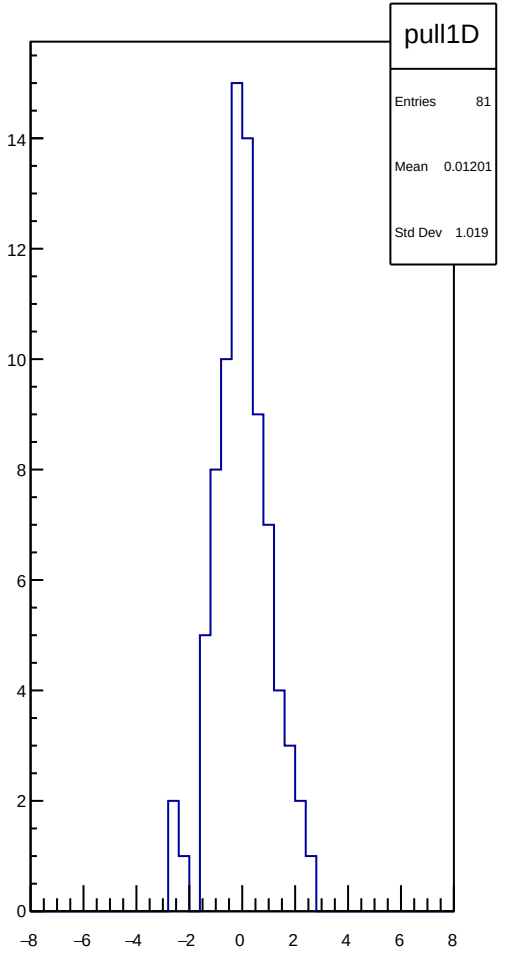

asym_bpm0l05WS_rms vs run
χ² / ndf 4.007e+04 / 80
p0 190.2 ± 0.1542
350
300
250
200
150

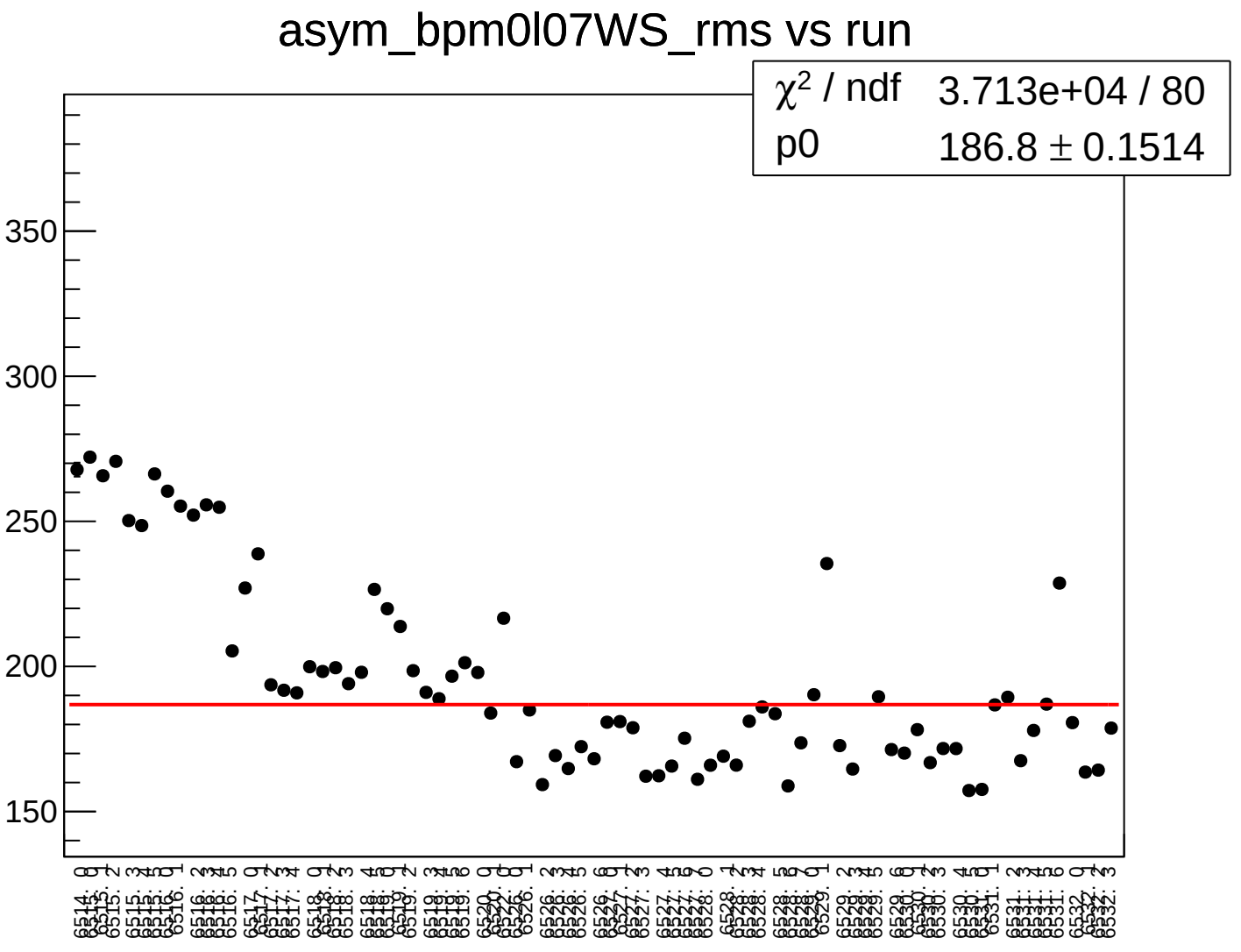

asym_bpm0l06WS_mean vs run
χ² / ndf 82.66 / 80
p0 1463 ± 214.8
pull
Entries 81
Mean −41.42
Std Dev 0

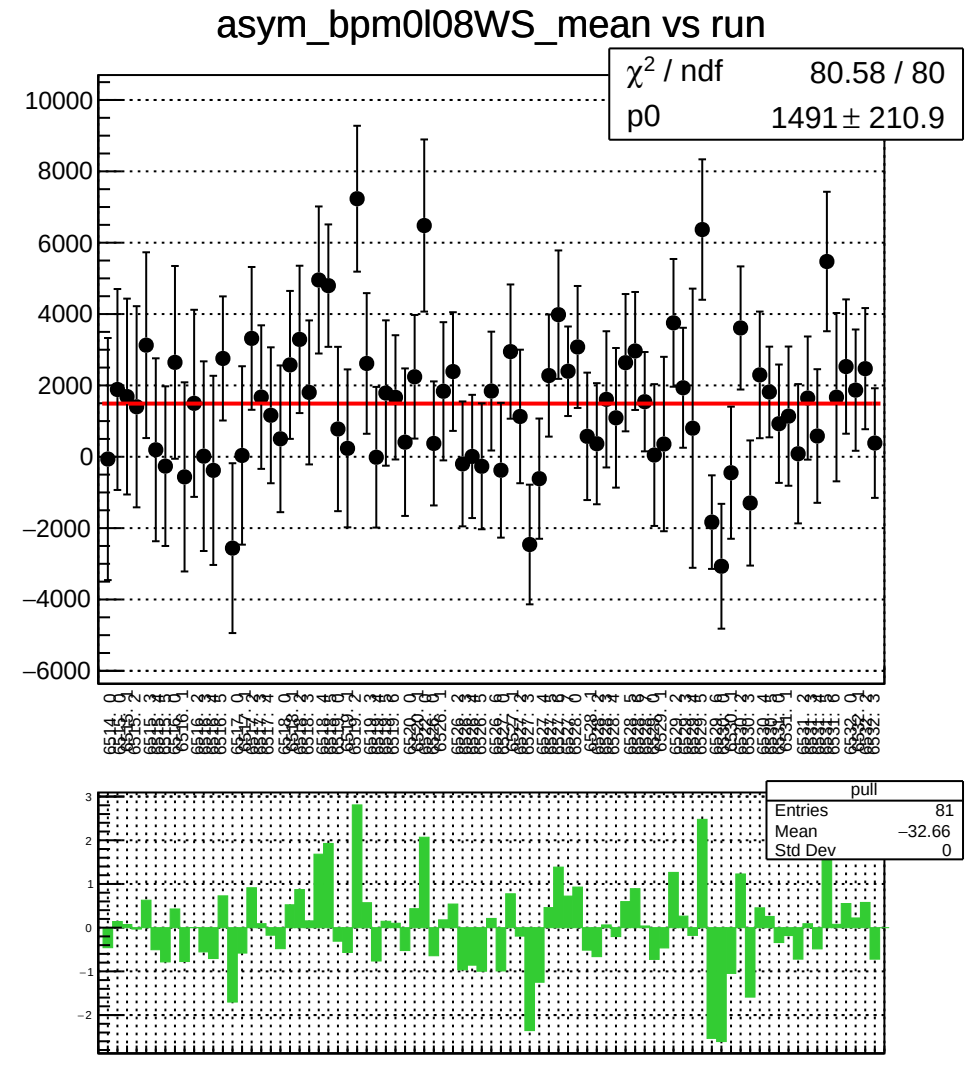

pull1D
Entries 81
Mean −0.006494
Std Dev 1.01

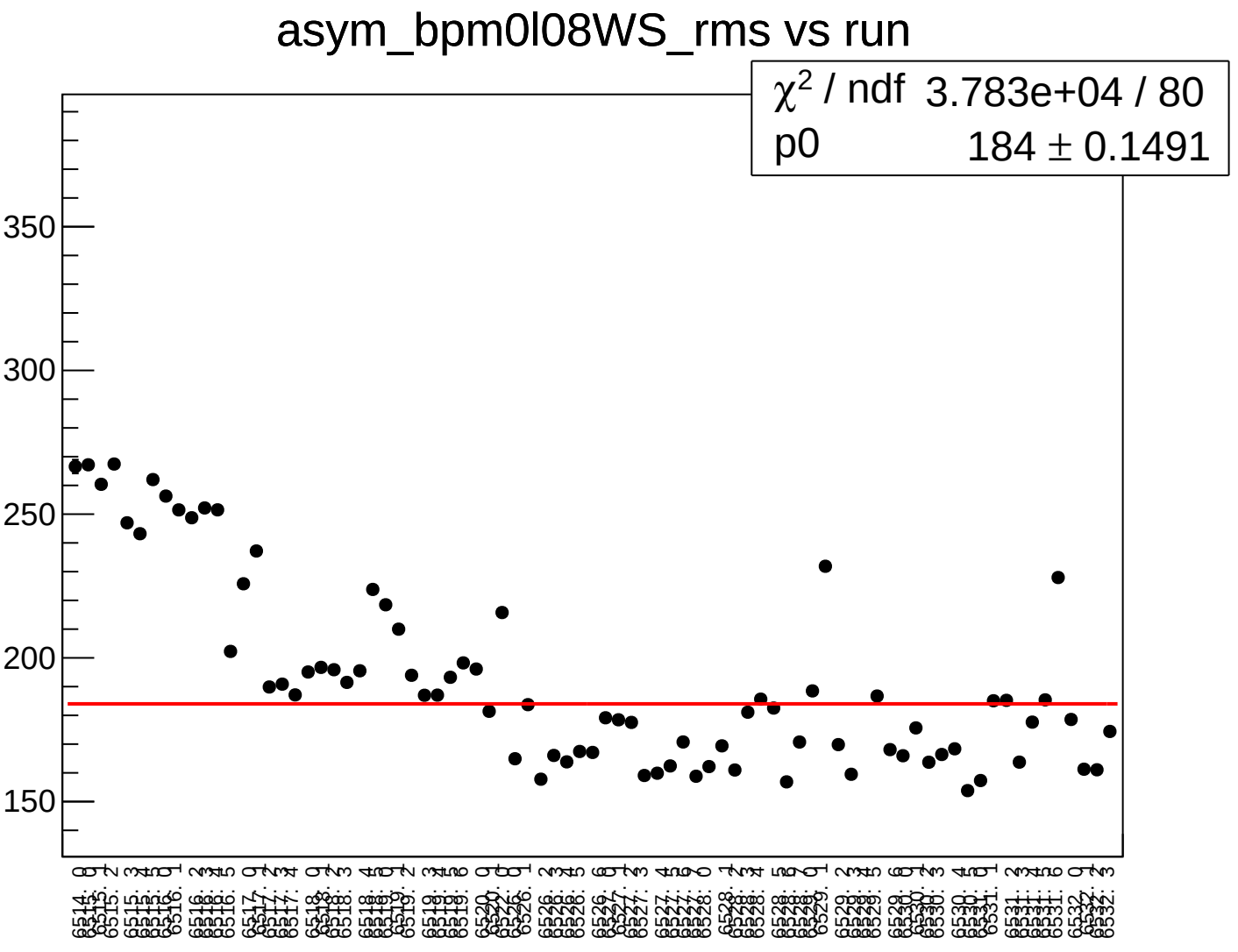

asym_bpm0l06WS_rms vs run
χ² / ndf 4.086e+04 / 80
p0 187.3 ± 0.1519
350
300
250
200
150

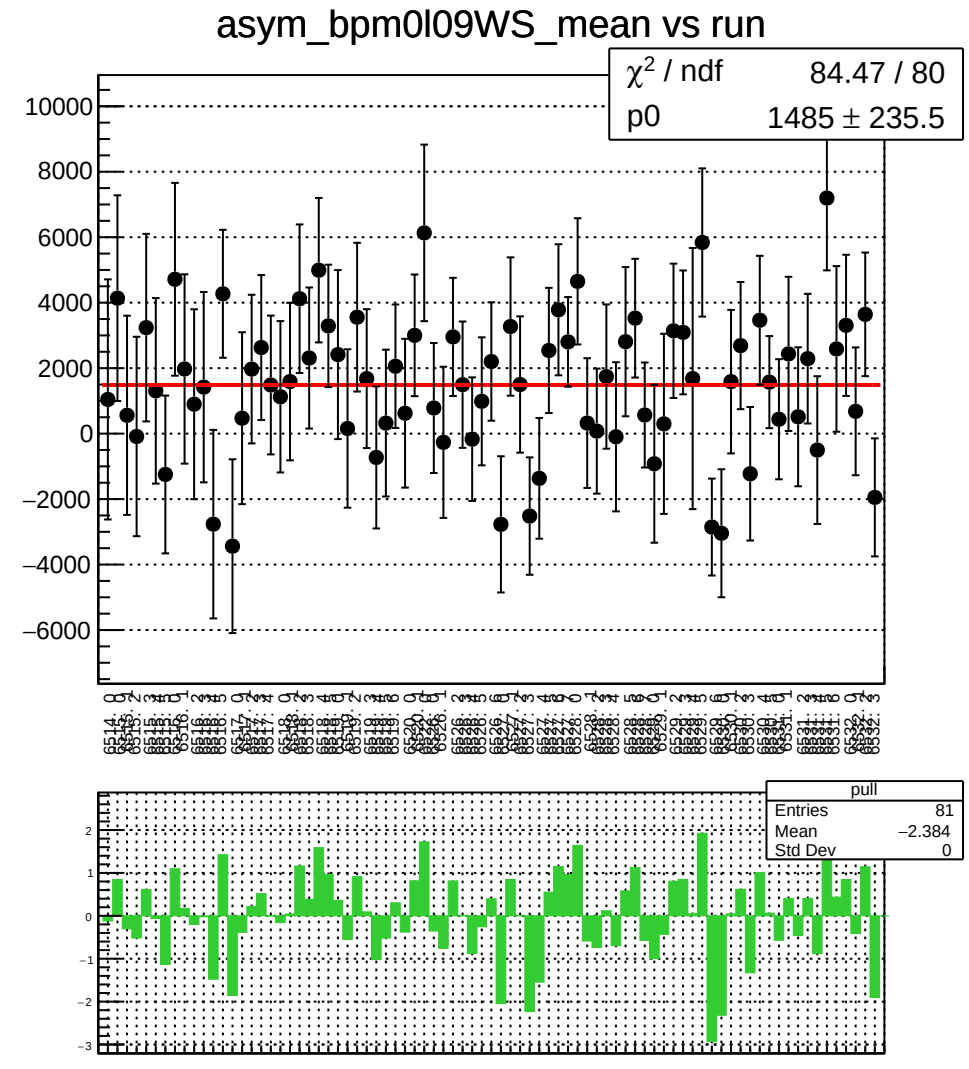

asym_bpm0l07WS_mean vs run
χ^2 / ndf 84.19 / 80
p0 1590 ± 214.1
pull
Entries 81
Mean −29.23
Std Dev 0

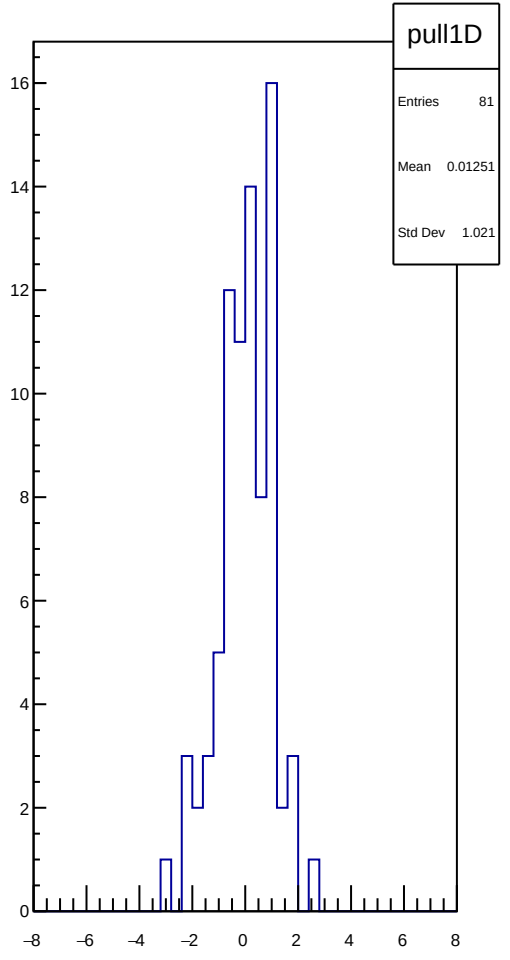

pull1D
Entries 81
Mean 0.01201
Std Dev 1.019

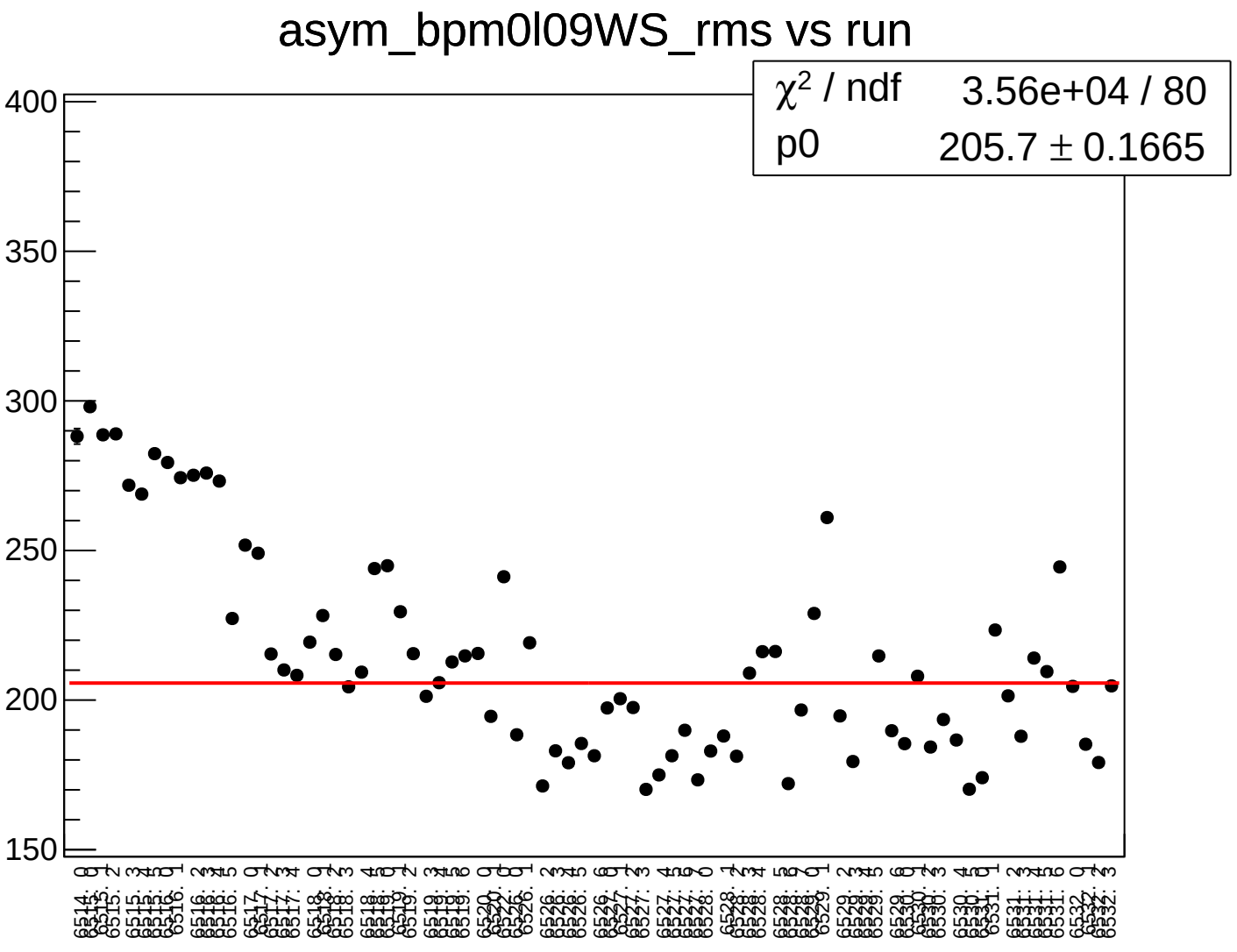

asym_bpm0l07WS_rms vs run
χ^2 / ndf 3.713e+04 / 80
p0 186.8 ± 0.1514
350
300
250
200
150

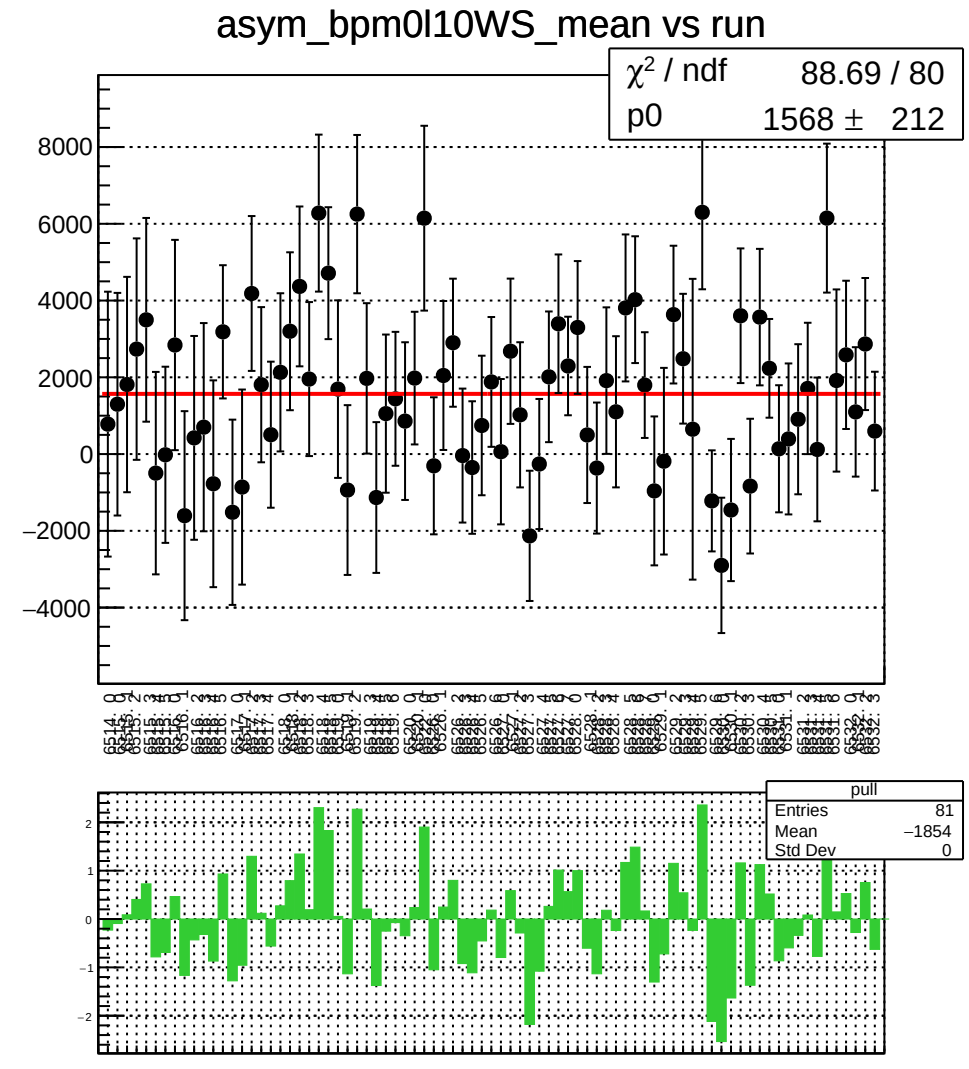

asym_bpm0l08WS_mean vs run
χ² / ndf 80.58 / 80
p0 1491 ± 210.9
pull
Entries 81
Mean −32.66
Std Dev 0
pull1D
Entries 81
Mean 0.005455
Std Dev 0.9974

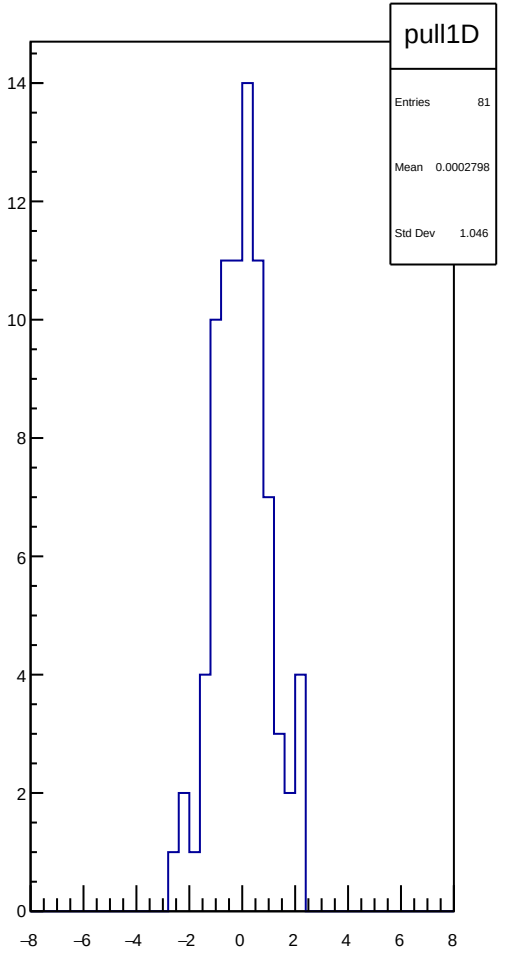

asym_bpm0l08WS_rms vs run
χ^2 / ndf 3.783e+04 / 80
p0 184 ± 0.1491
350
300
250
200
150

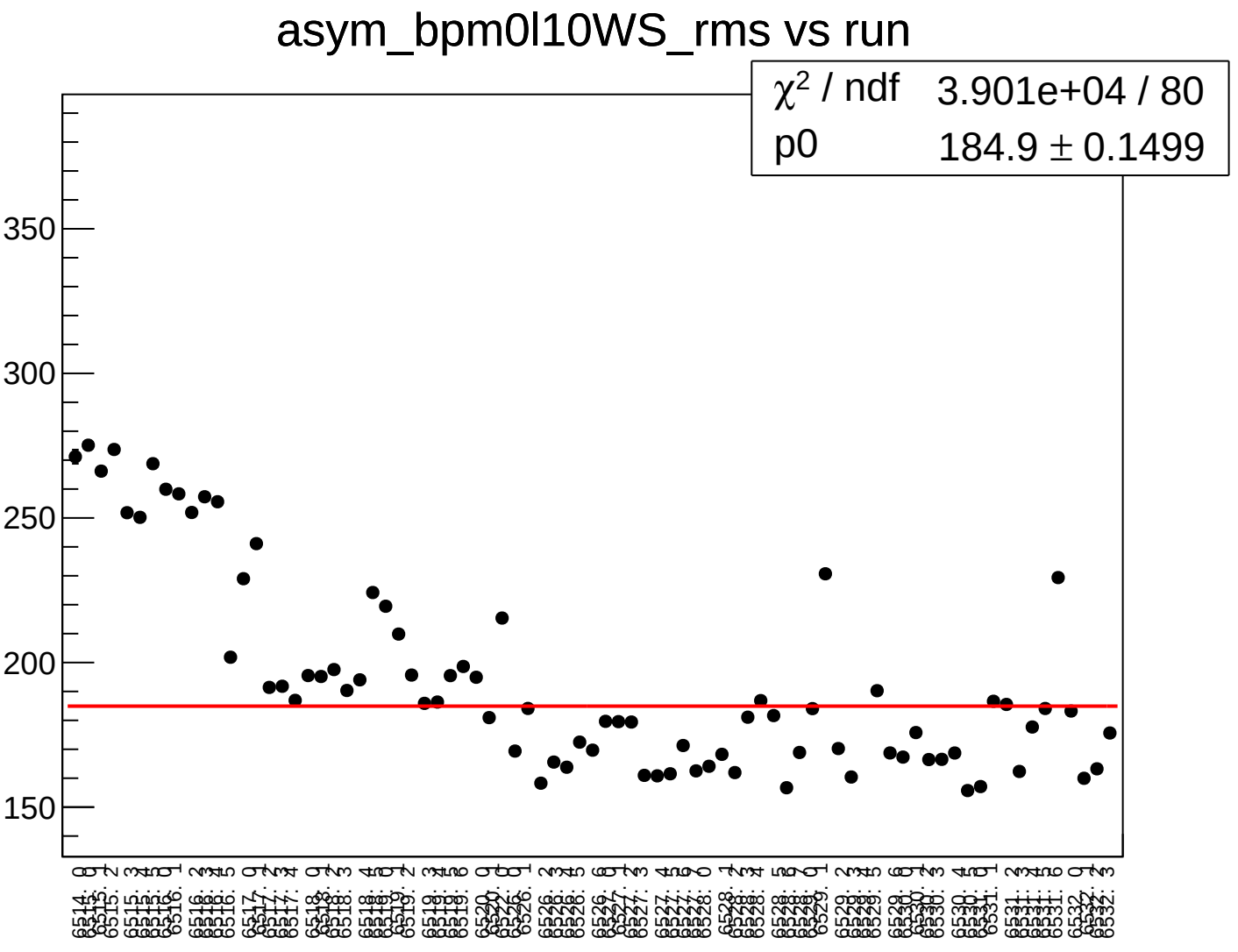

asym_bpm0l09WS_mean vs run
χ² / ndf 84.47 / 80
p0 1485 ± 235.5
pull
Entries 81
Mean −2.384
Std Dev 0

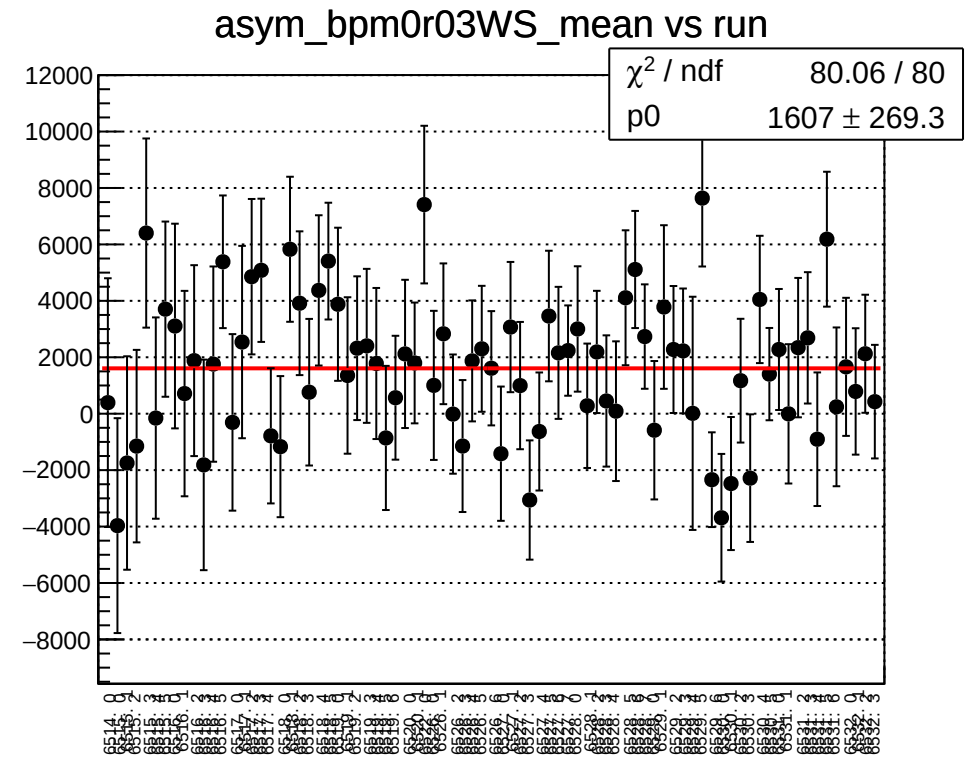

pull1D
Entries 81
Mean 0.01251
Std Dev 1.021

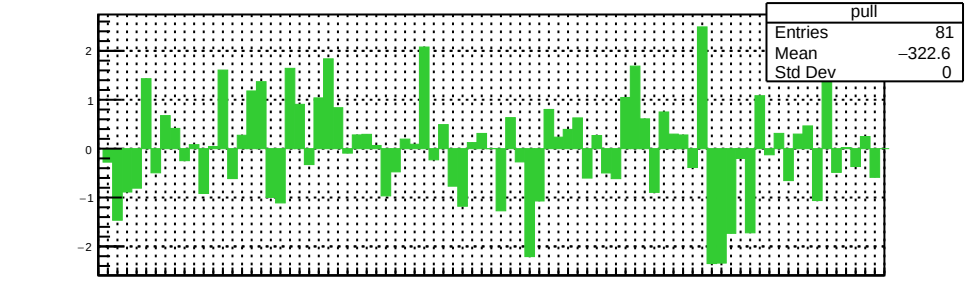

asym_bpm0l09WS_rms vs run
χ² / ndf 3.56e+04 / 80
p0 205.7 ± 0.1665
400
350
300
250
200
150

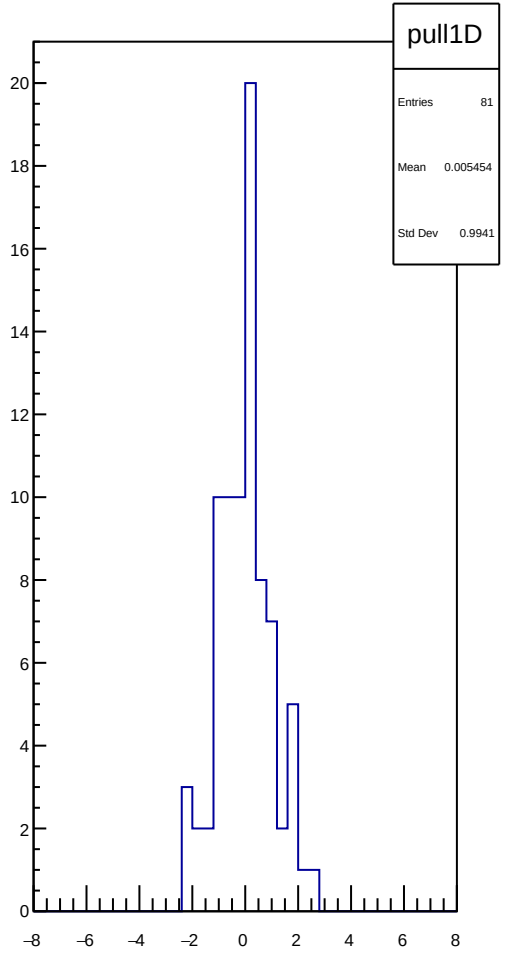

asym_bpm0l10WS_mean vs run
χ² / ndf 88.69 / 80
p0 1568 ± 212
8000
6000
4000
2000
0
−2000
−4000
pull
Entries 81
Mean −1854
Std Dev 0
2
1
0
−1
−2

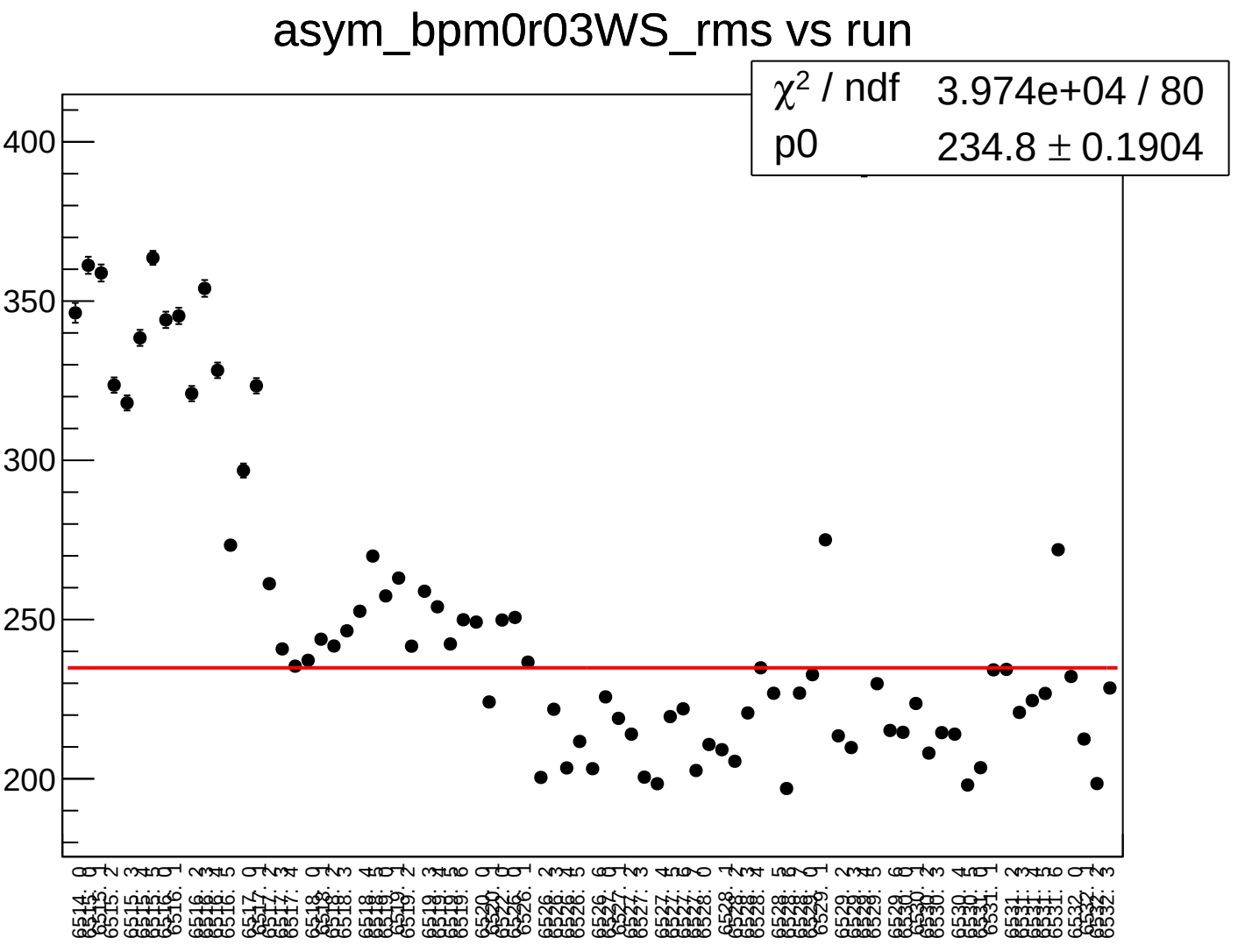

pull1D
Entries 81
Mean 0.0002798
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

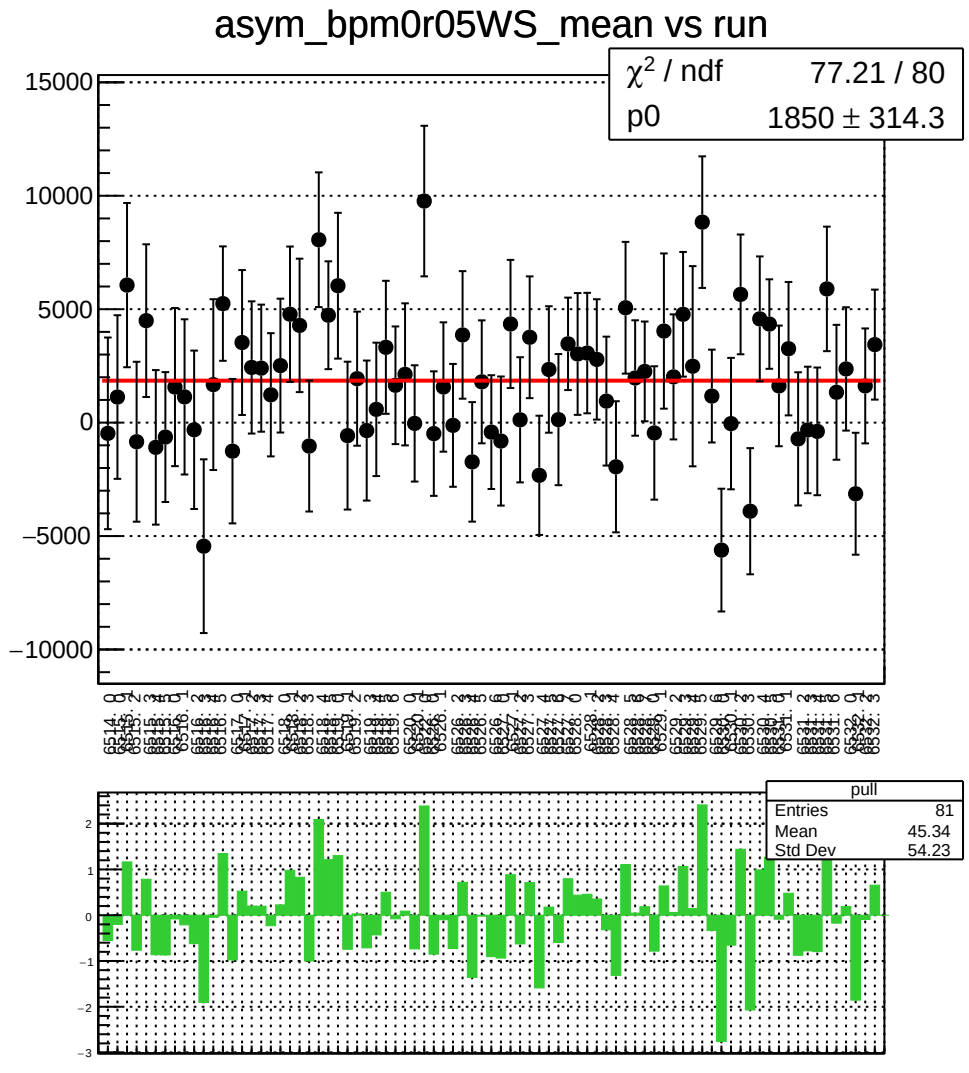

asym_bpm0l10WS_rms vs run
χ² / ndf 3.901e+04 / 80
p0 184.9 ± 0.1499
350
300
250
200
150

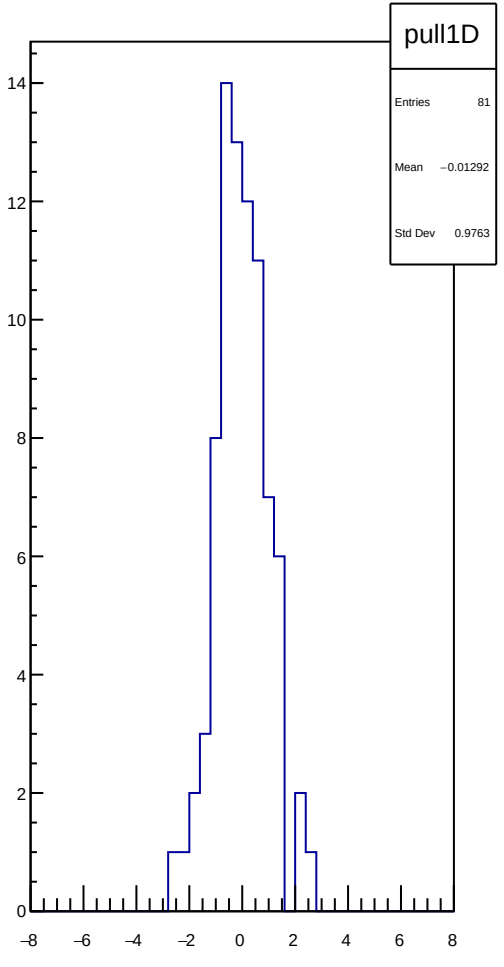

asym_bpm0r03WS_mean vs run
χ² / ndf 80.06 / 80
p0 1607 ± 269.3
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000

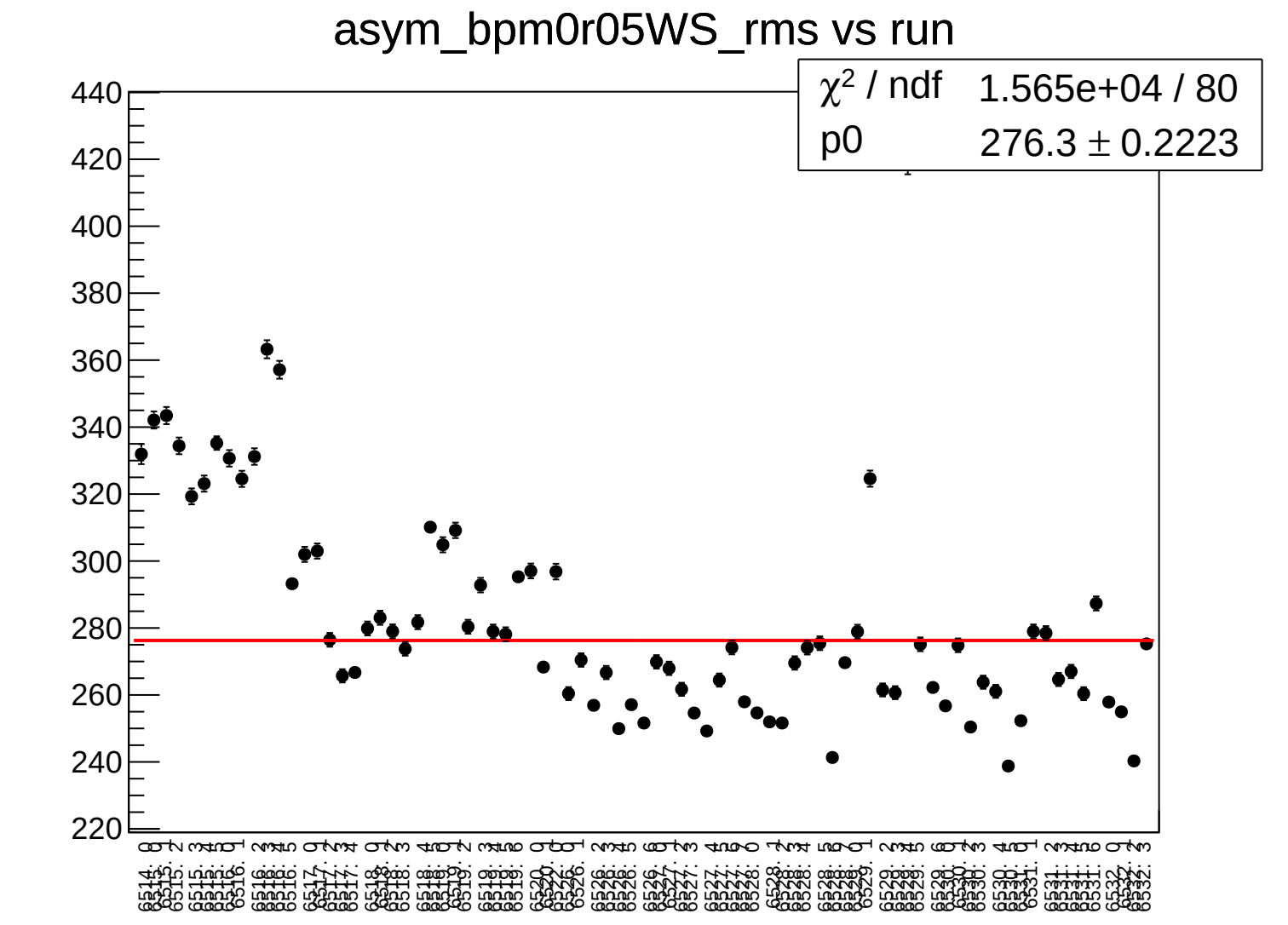

pull
Entries 81
Mean −322.6
Std Dev 0
2
1
0
−1
−2

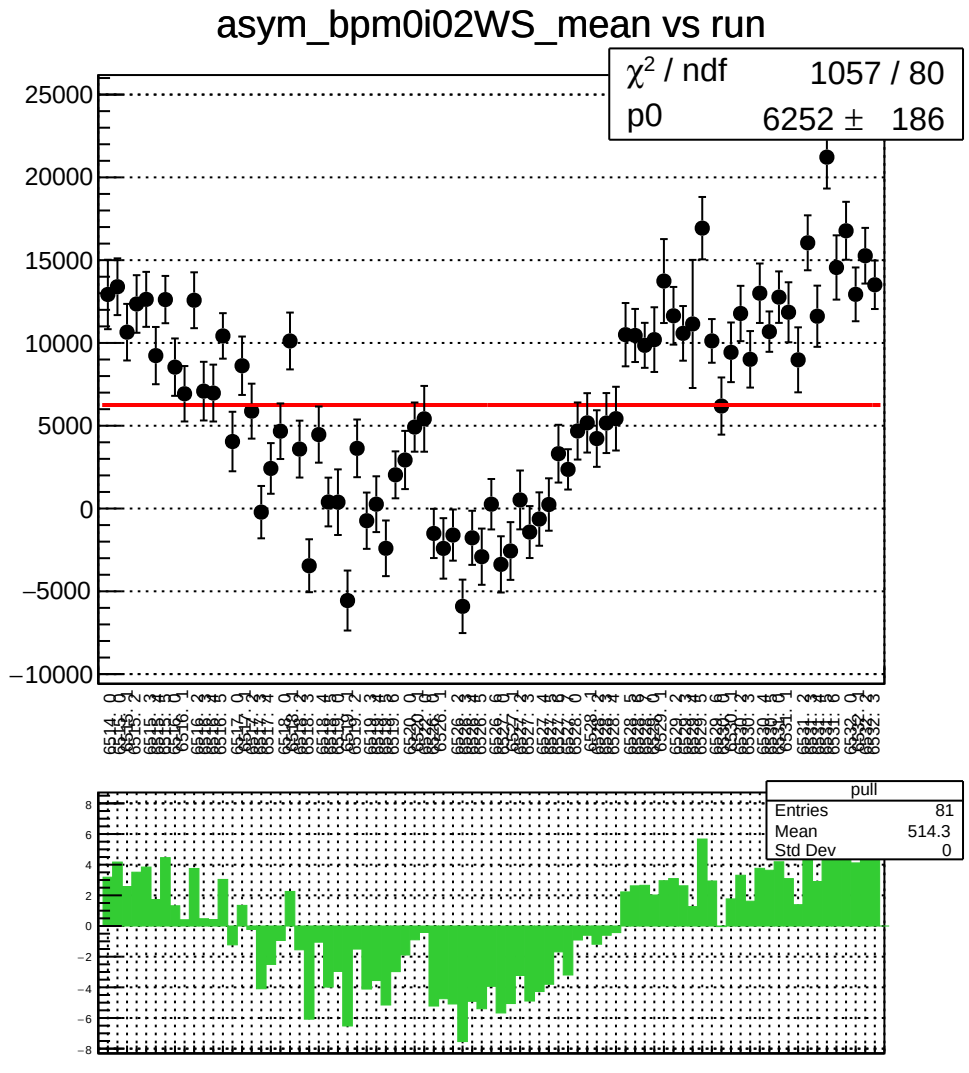

pull1D
Entries 81
Mean 0.005454
Std Dev 0.9941
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

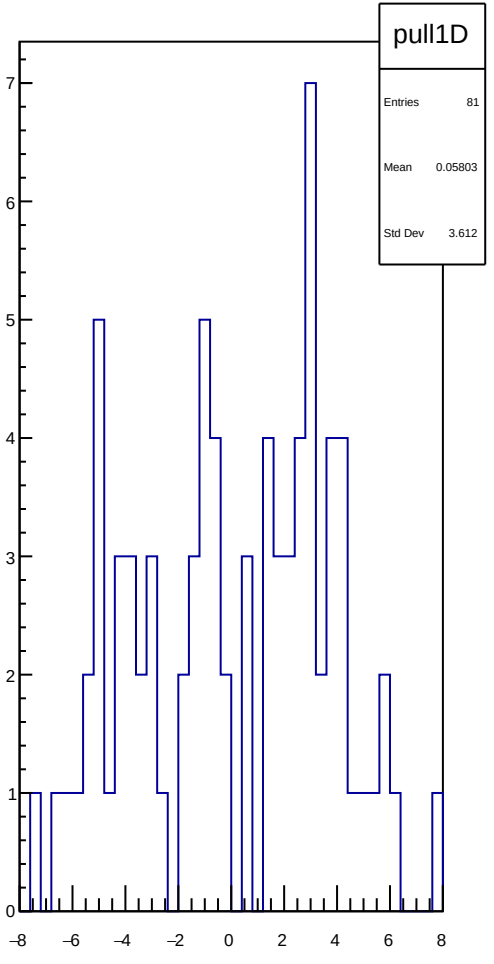

asym_bpm0r03WS_rms vs run
χ² / ndf 3.974e+04 / 80
p0 234.8 ± 0.1904
400
350
300
250
200

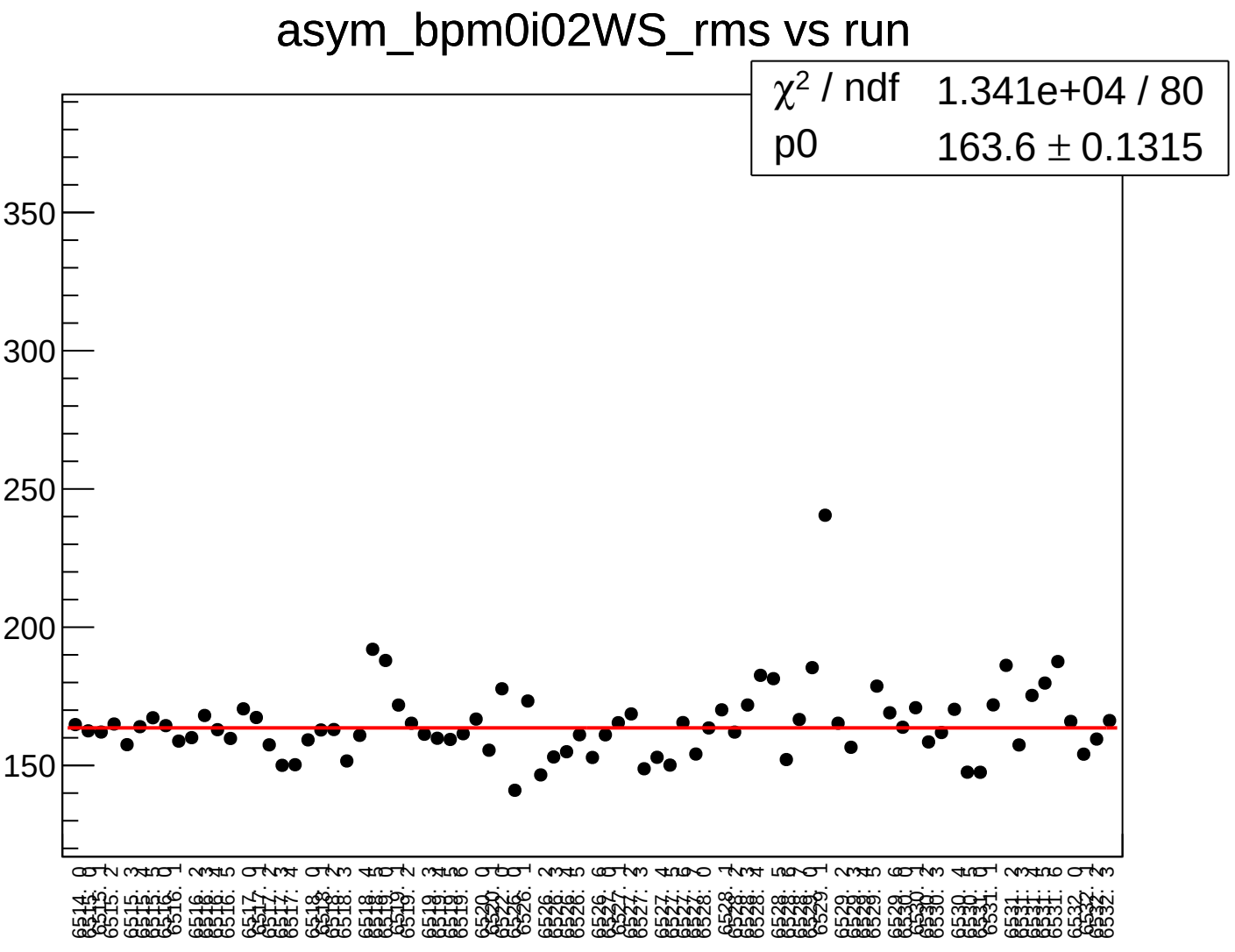

asym_bpm0r05WS_mean vs run
χ² / ndf 77.21 / 80
p0 1850 ± 314.3
pull
Entries 81
Mean 45.34
Std Dev 54.23

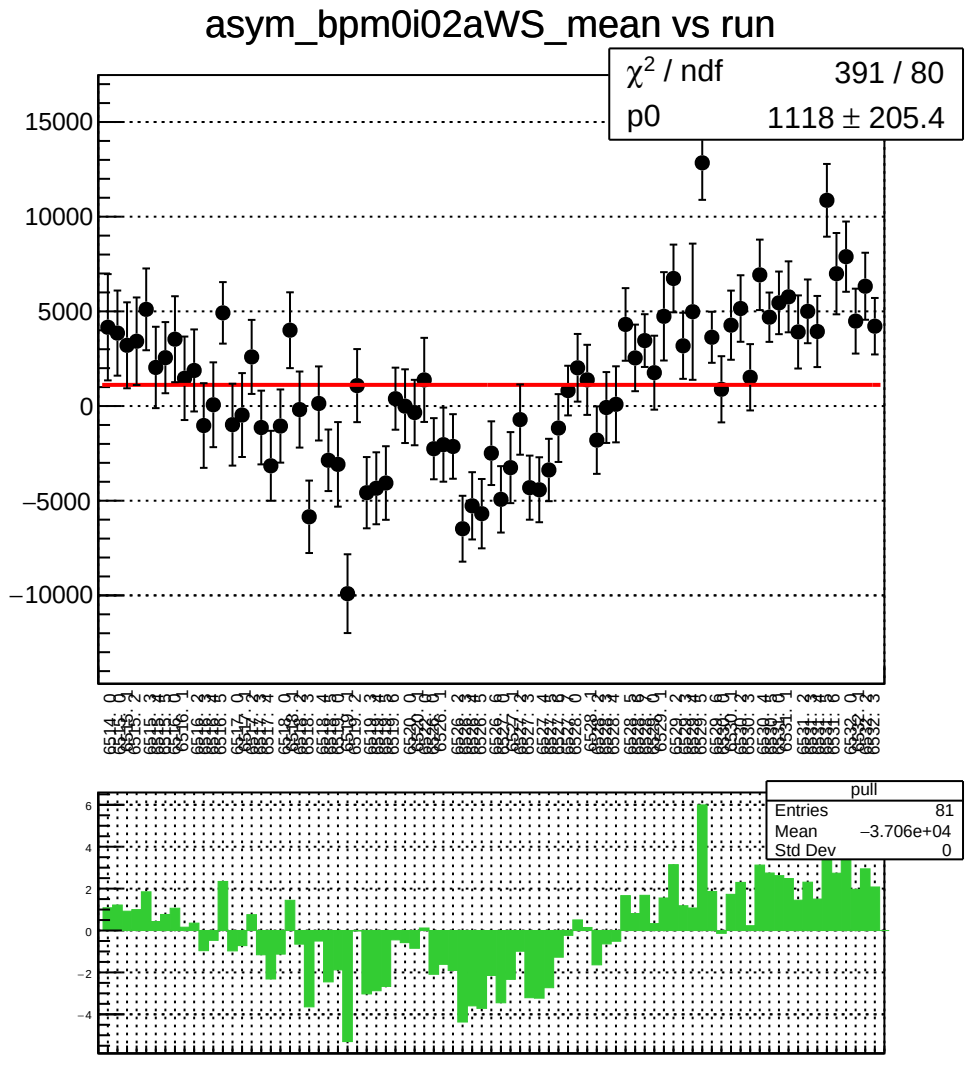

pull1D
Entries 81
Mean −0.01292
Std Dev 0.9763

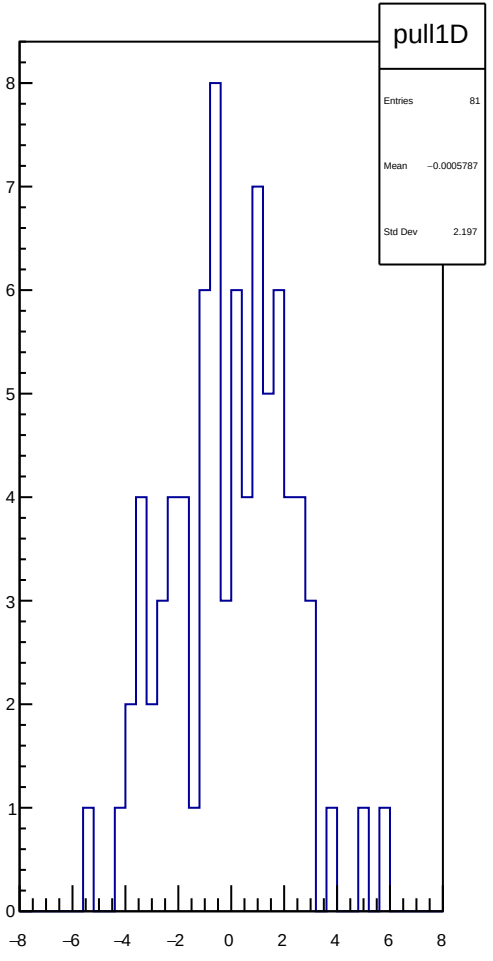

asym_bpm0r05WS_rms vs run
χ^2 / ndf 1.565e+04 / 80
p0 276.3 ± 0.2223
440
420
400
380
360
340
320
300
280
260
240
220

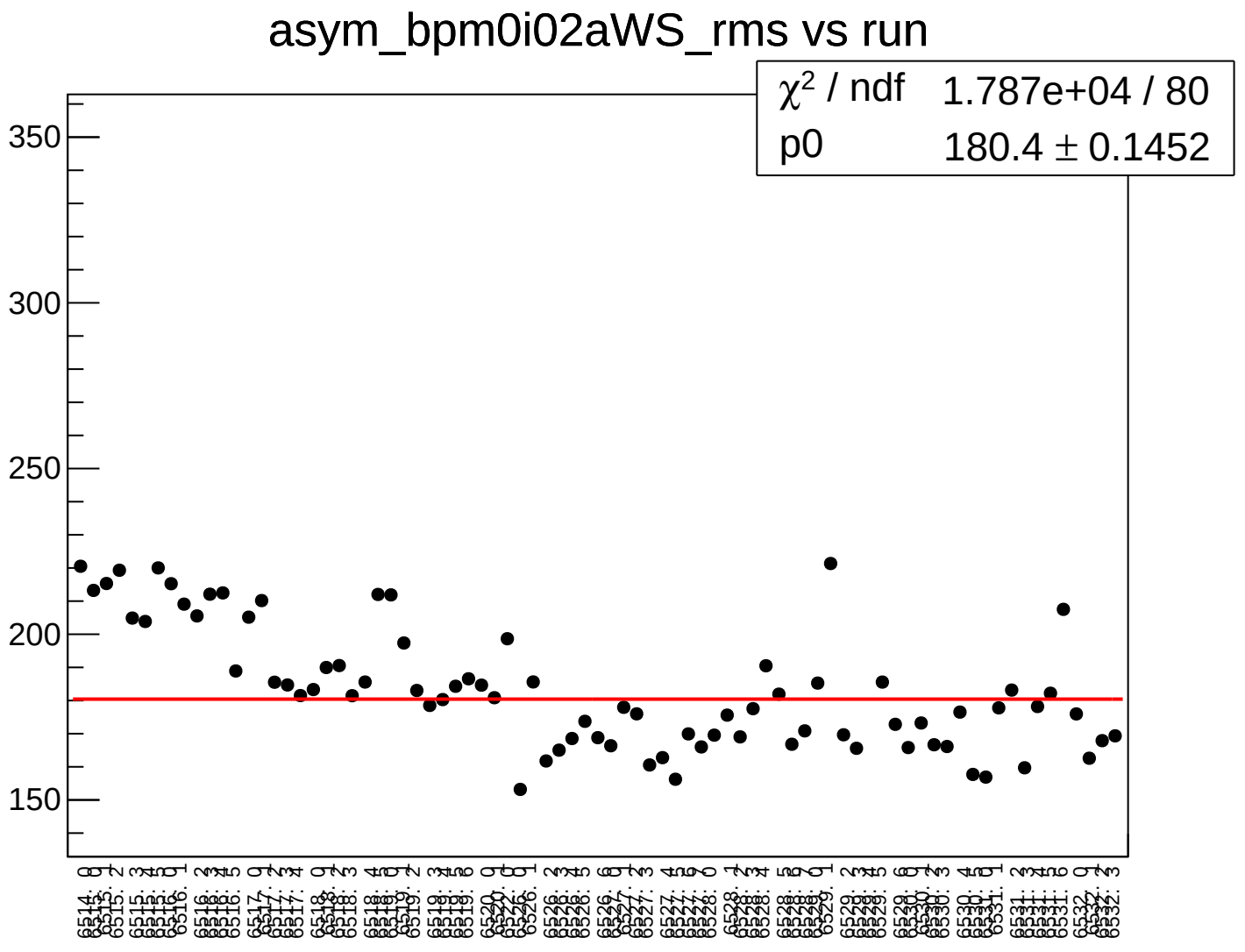

asym_bpm0i02WS_mean vs run
χ² / ndf 1057 / 80
p0 6252 ± 186
pull
Entries 81
Mean 514.3
Std Dev 0

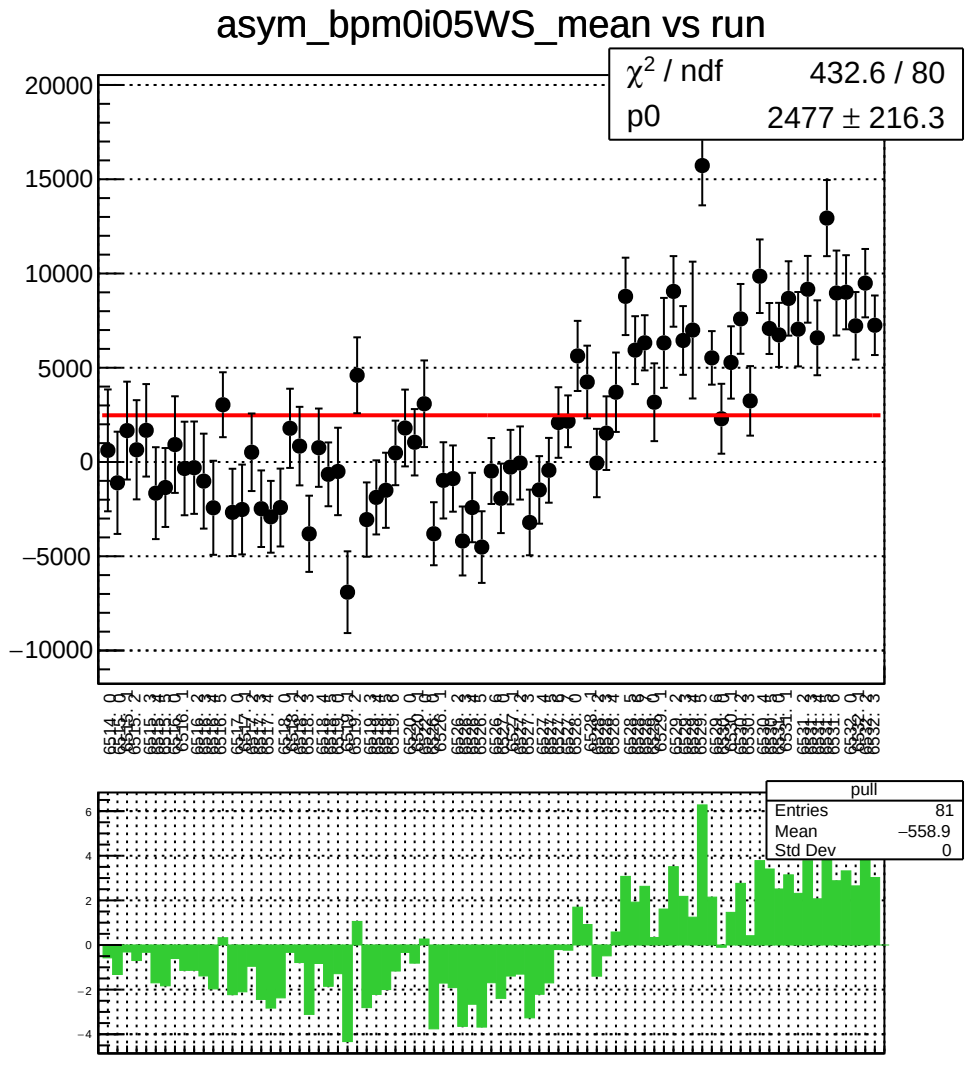

pull1D
Entries 81
Mean 0.05803
Std Dev 3.612

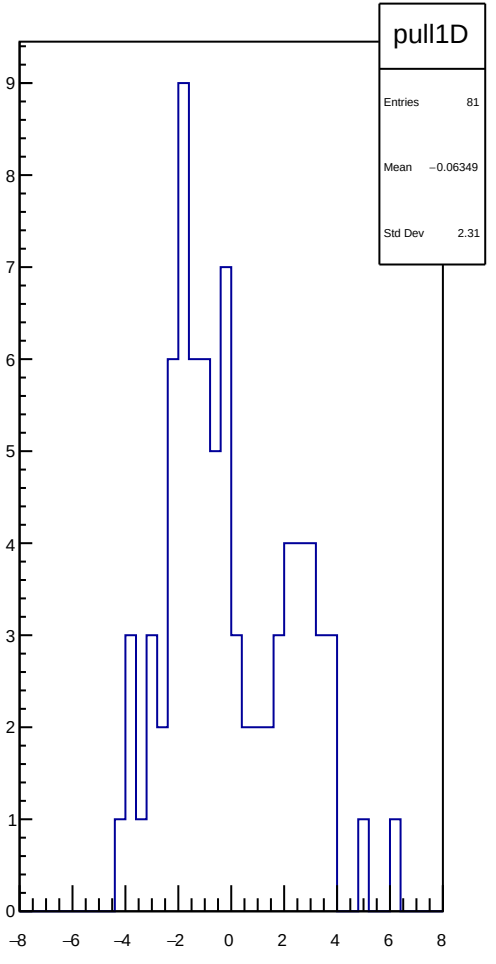

asym_bpm0i02WS_rms vs run
χ² / ndf 1.341e+04 / 80
p0 163.6 ± 0.1315
350
300
250
200
150

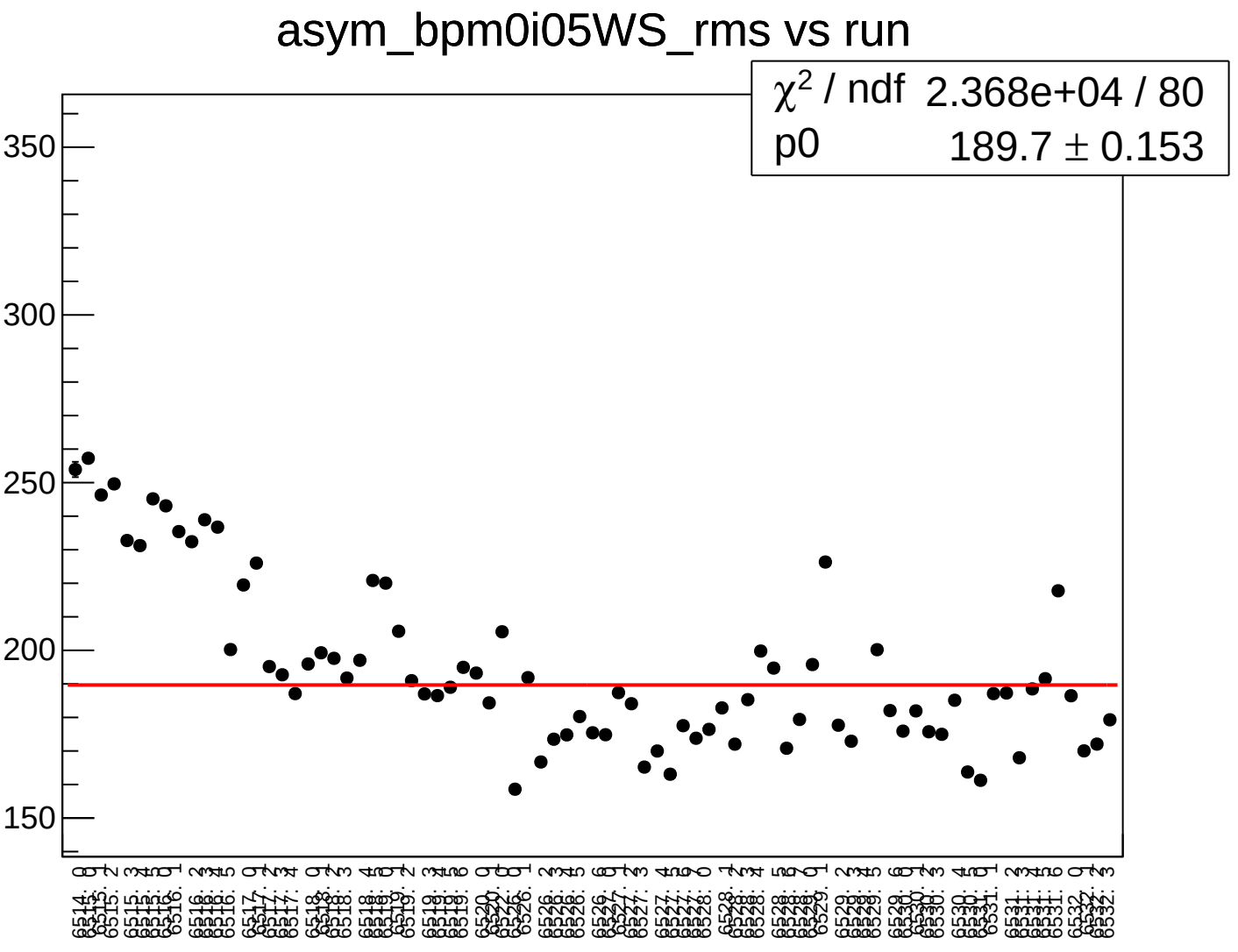

asym_bpm0i02aWS_mean vs run
χ² / ndf 391 / 80
p0 1118 ± 205.4
15000
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −3.706e+04
Std Dev 0
6
4
2
0
−2
−4

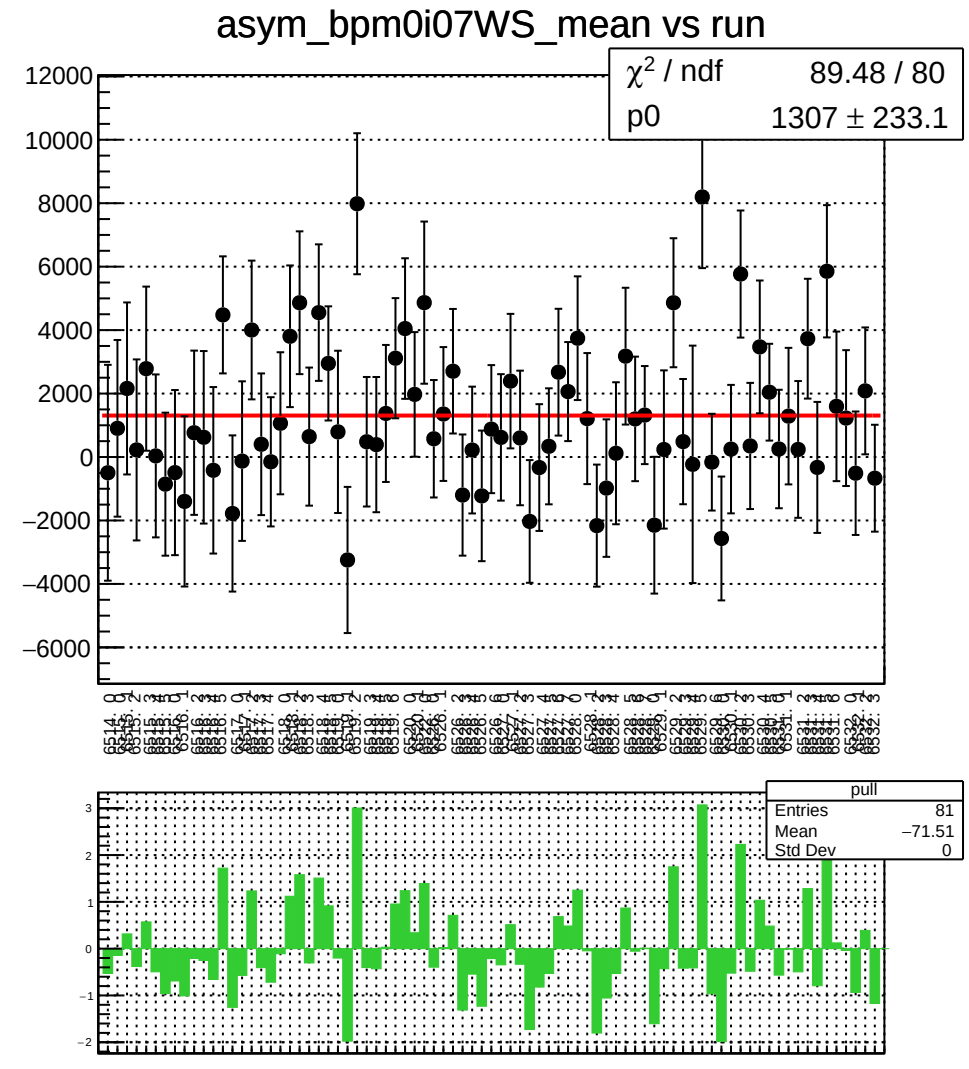

pull1D
Entries 81
Mean −0.0005787
Std Dev 2.197
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

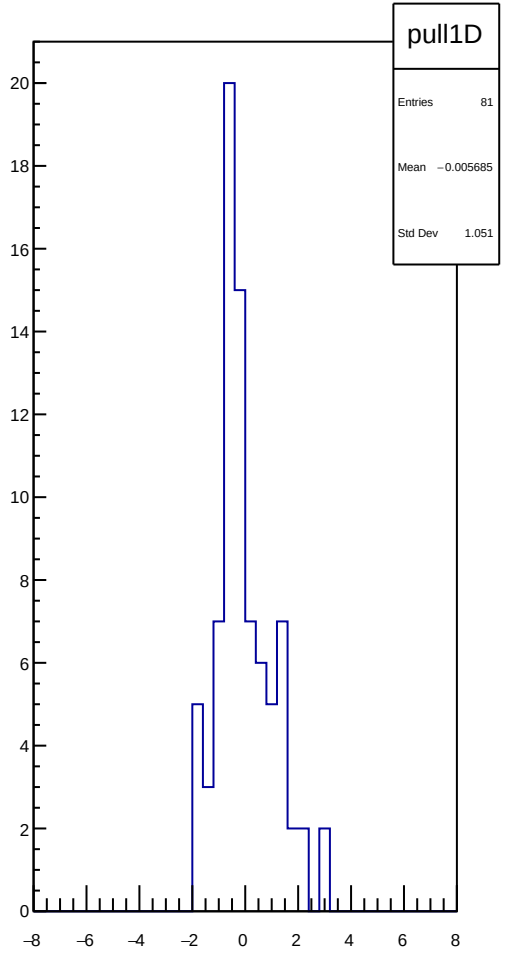

asym_bpm0i02aWS_rms vs run
χ² / ndf 1.787e+04 / 80
p0 180.4 ± 0.1452
350
300
250
200
150

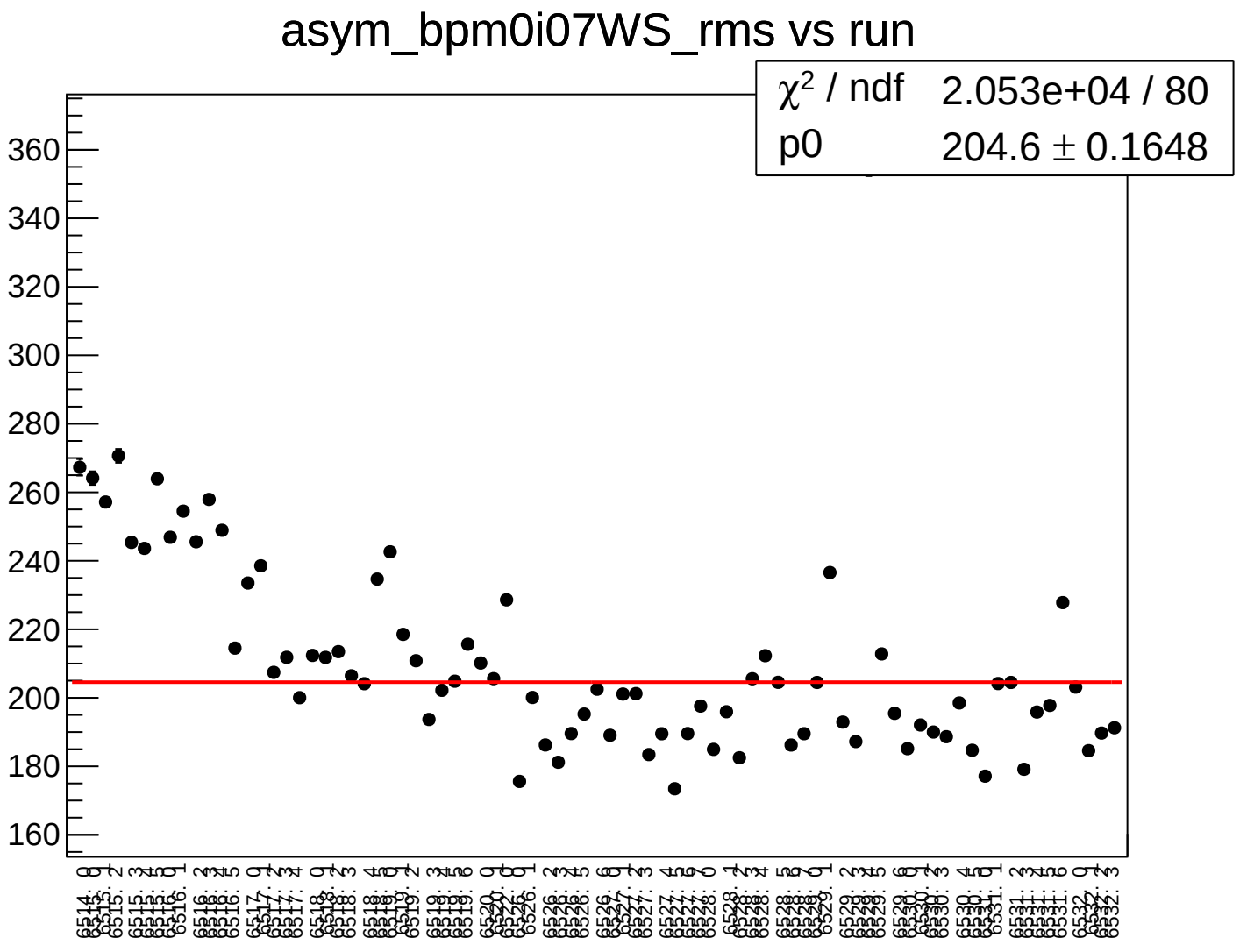

asym_bpm0i05WS_mean vs run
χ² / ndf 432.6 / 80
p0 2477 ± 216.3
pull
Entries 81
Mean −558.9
Std Dev 0

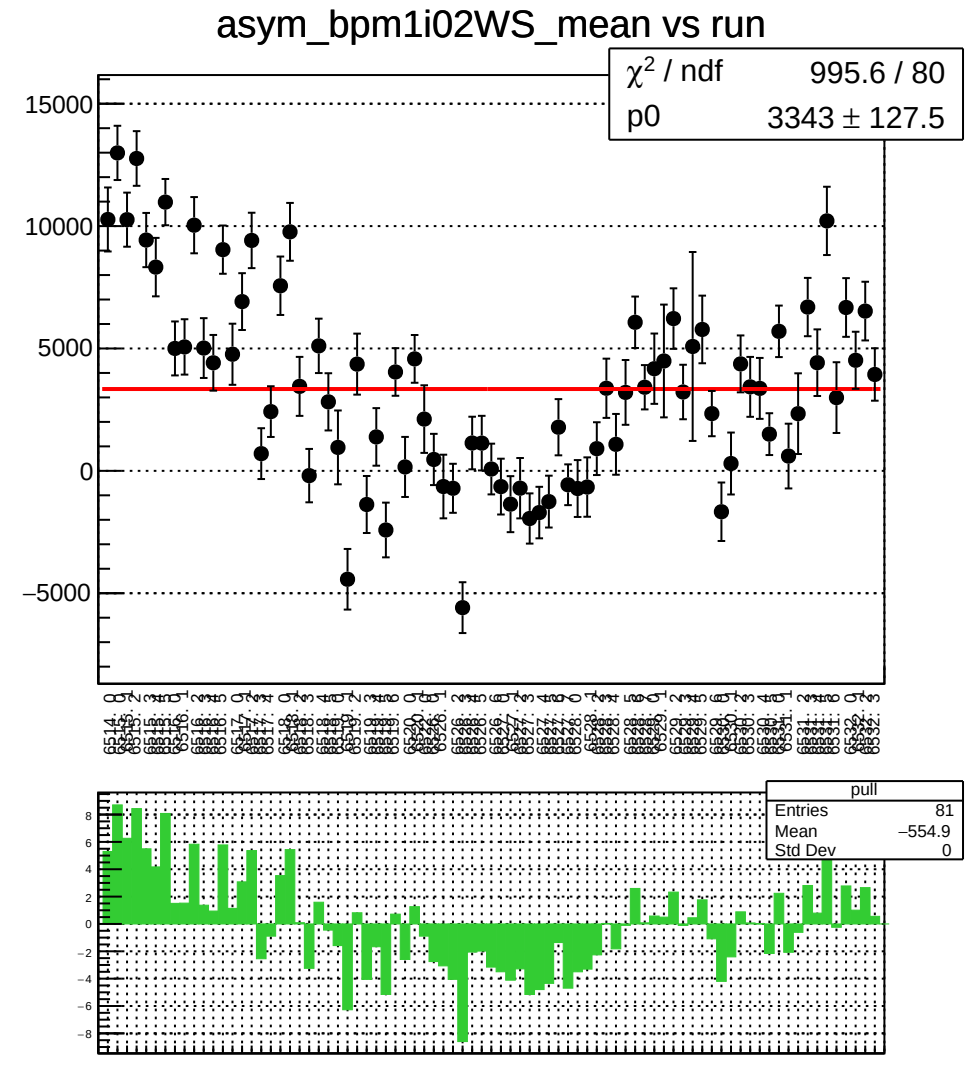

pull1D
Entries 81
Mean −0.06349
Std Dev 2.31

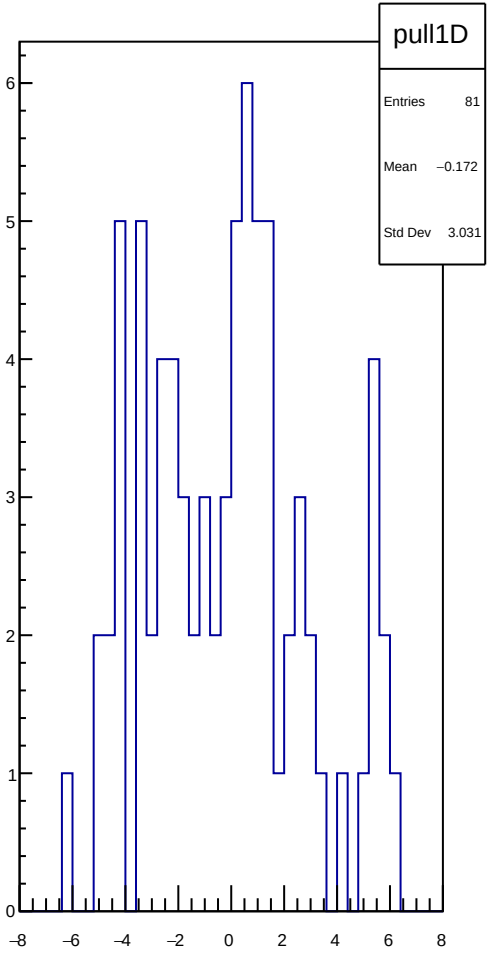

asym_bpm0i05WS_rms vs run
χ^2 / ndf 2.368e+04 / 80
p0 189.7 ± 0.153
350
300
250
200
150

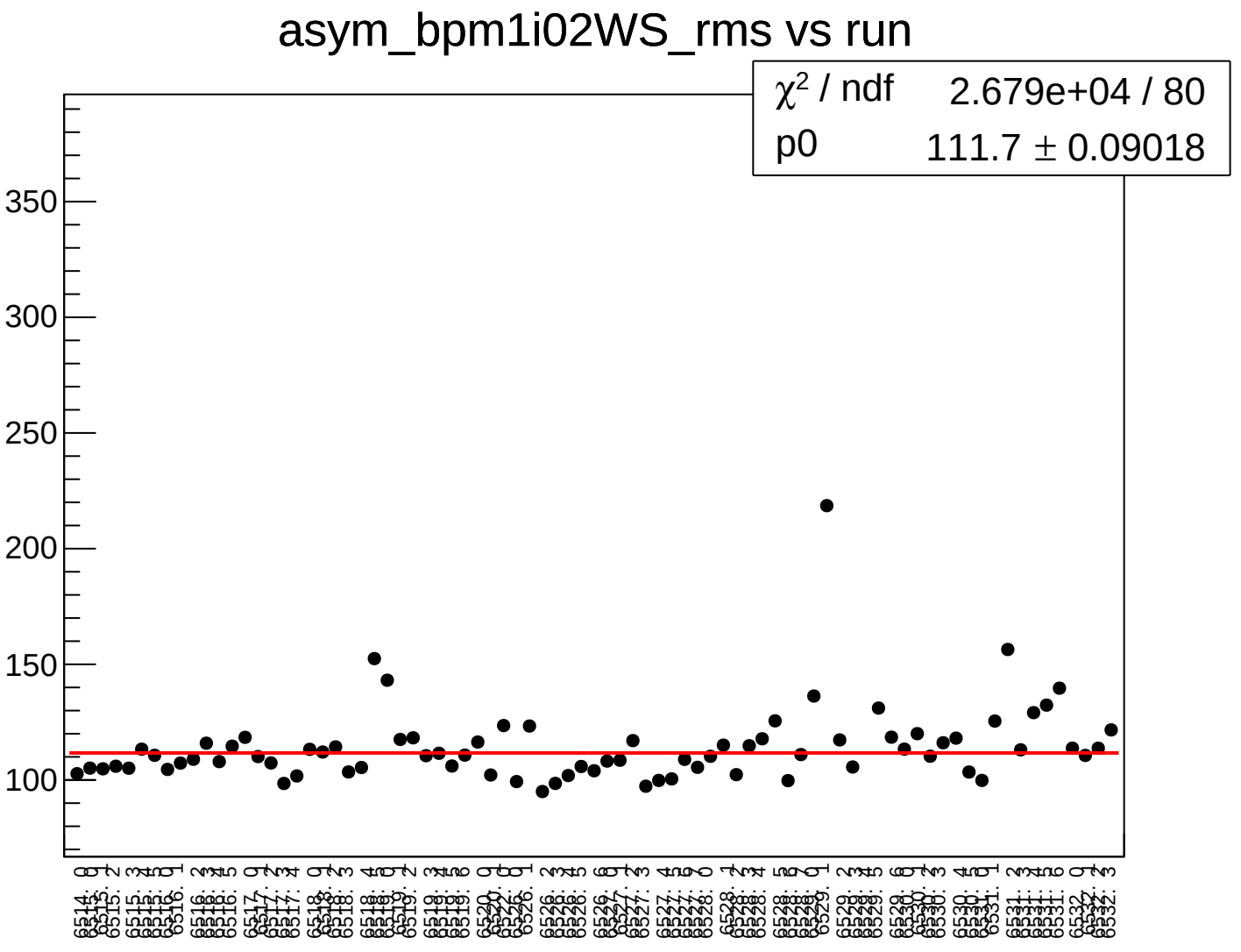

asym_bpm0i07WS_mean vs run
χ² / ndf 89.48 / 80
p0 1307 ± 233.1
pull
Entries 81
Mean −71.51
Std Dev 0

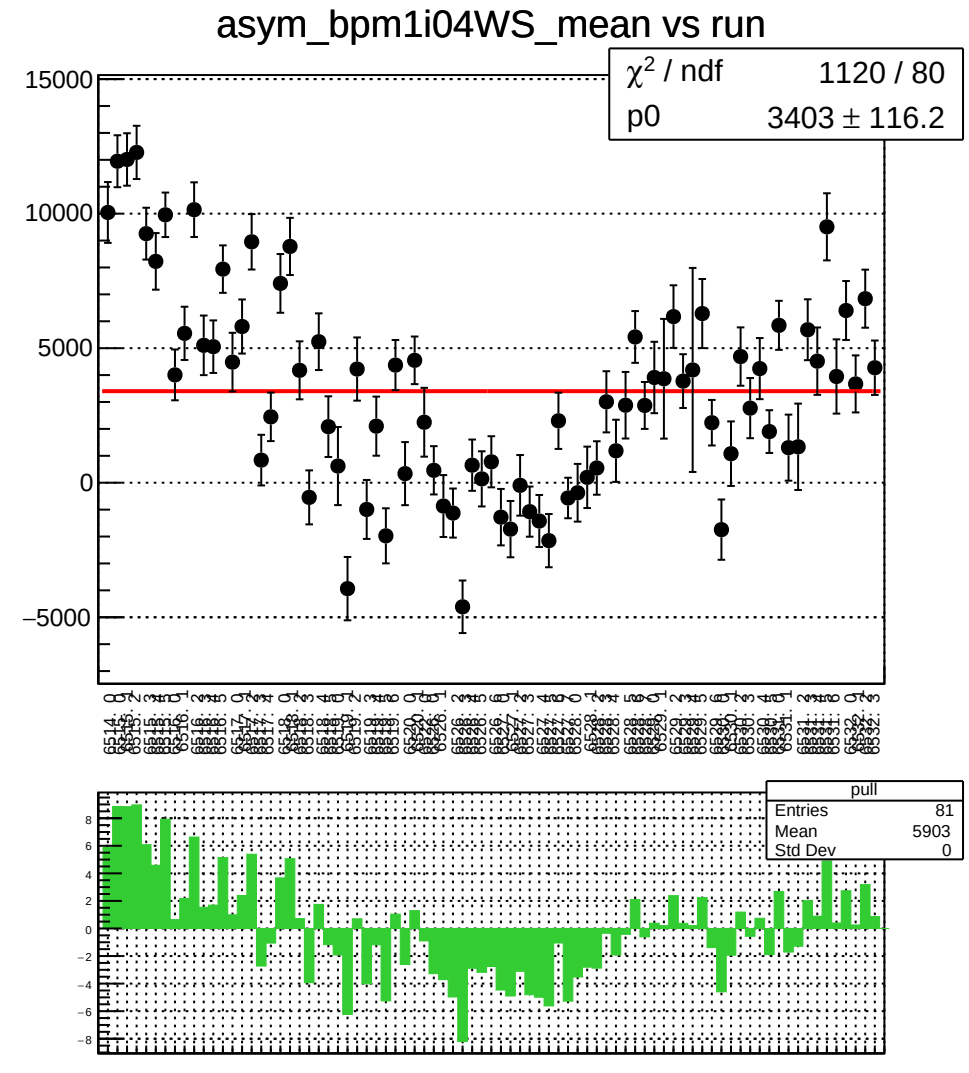

pull1D
Entries 81
Mean −0.005685
Std Dev 1.051

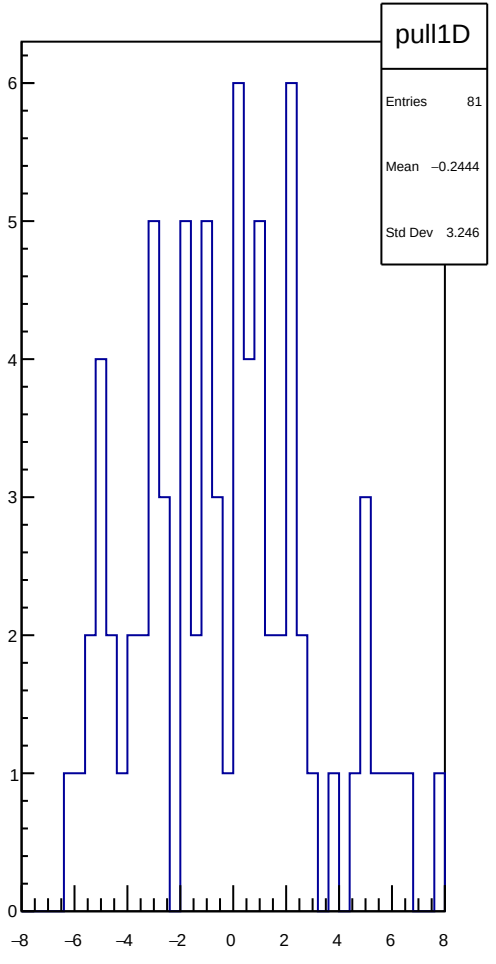

asym_bpm0i07WS_rms vs run
χ^2 / ndf 2.053e+04 / 80
p0 204.6 ± 0.1648
360
340
320
300
280
260
240
220
200
180
160

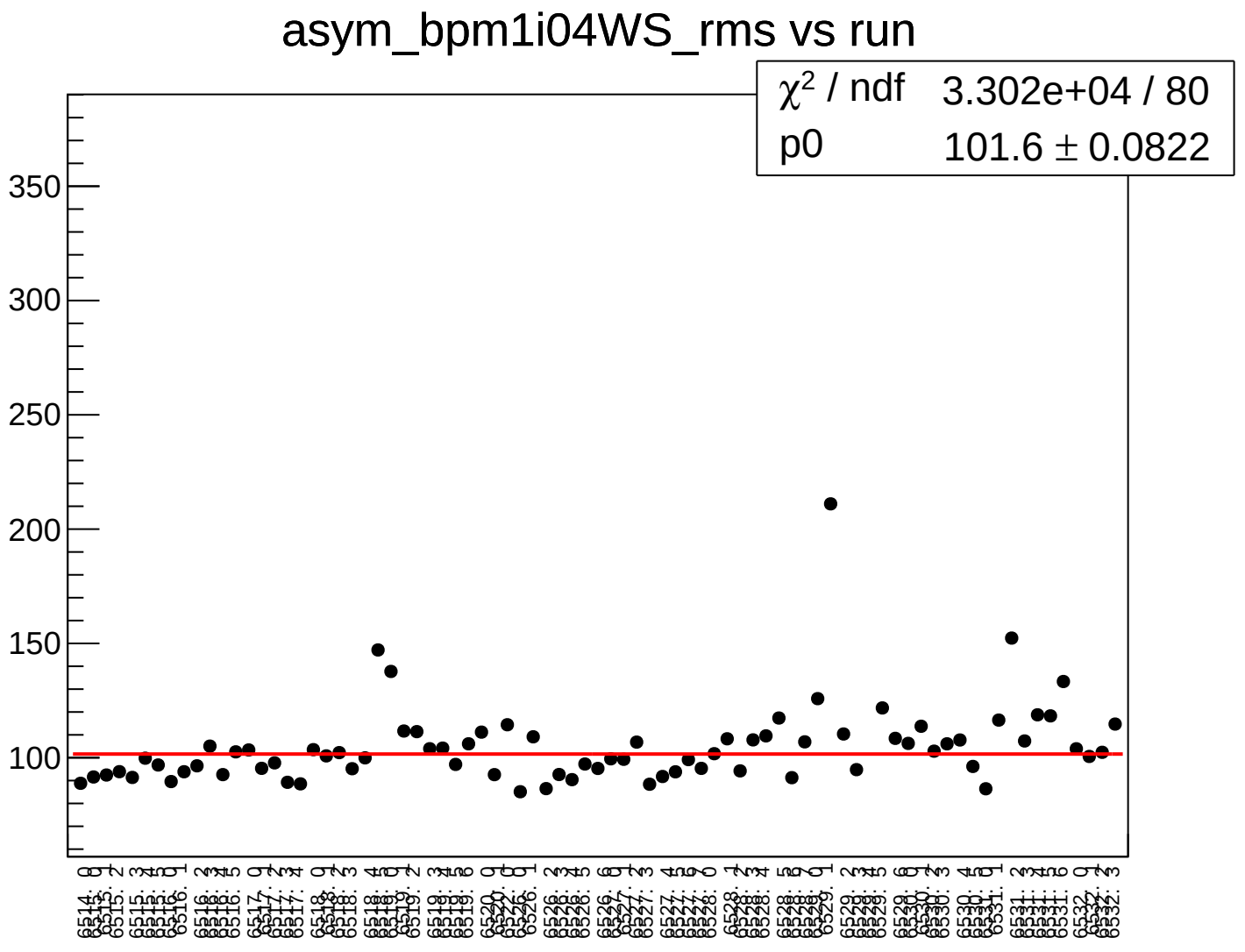

asym_bpm1i02WS_mean vs run
χ² / ndf 995.6 / 80
p0 3343 ± 127.5
15000
10000
5000
0
−5000
pull
Entries 81
Mean −554.9
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8

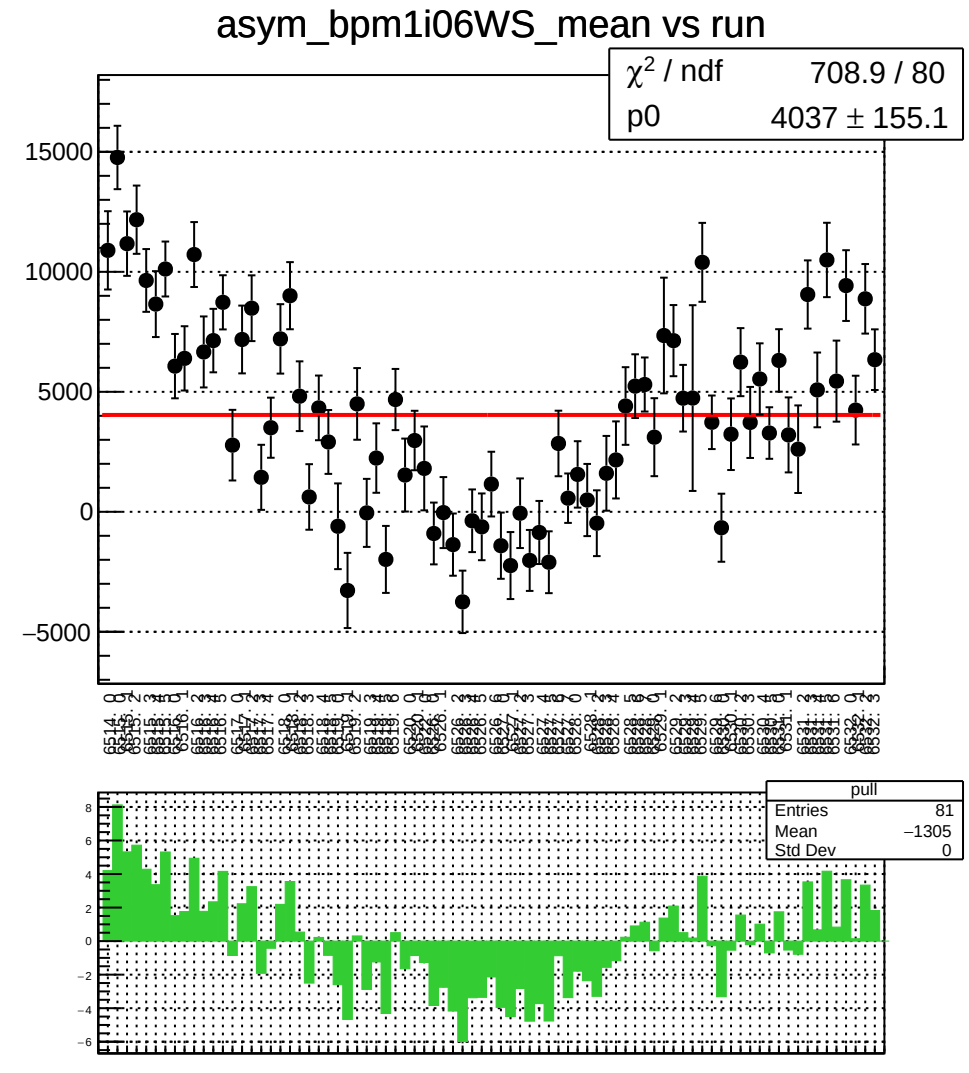

pull1D
Entries 81
Mean −0.172
Std Dev 3.031
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

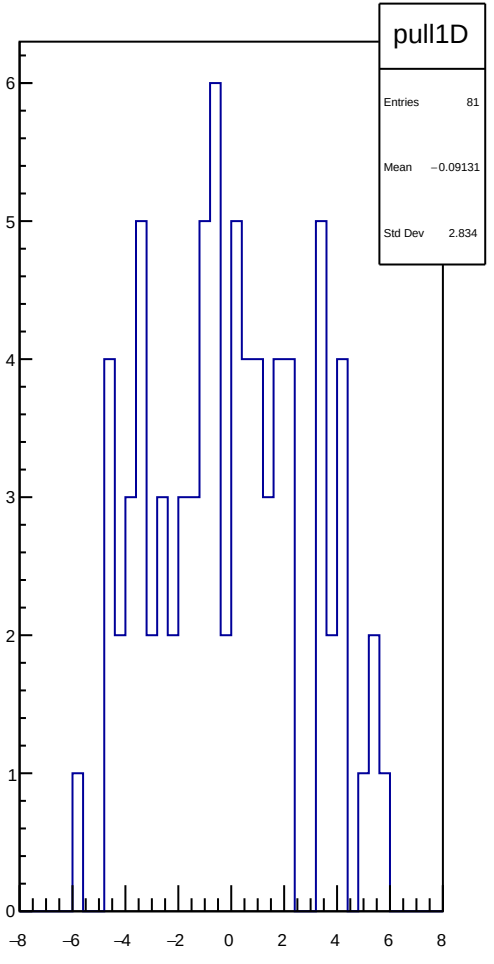

asym_bpm1i02WS_rms vs run
χ² / ndf 2.679e+04 / 80
p0 111.7 ± 0.09018
350
300
250
200
150
100

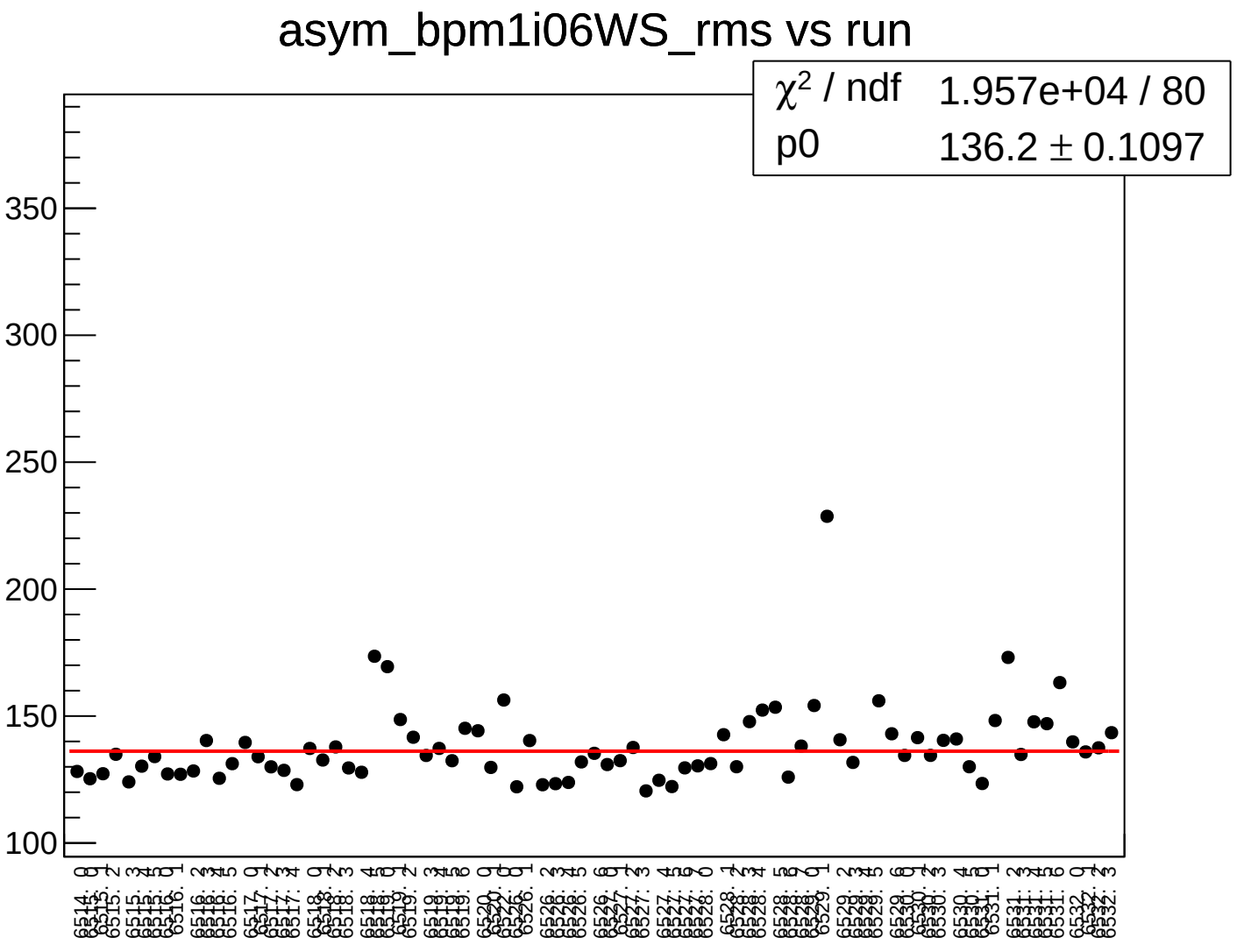

asym_bpm1i04WS_mean vs run
χ² / ndf 1120 / 80
p0 3403 ± 116.2
15000
10000
5000
0
−5000
pull
Entries 81
Mean 5903
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8

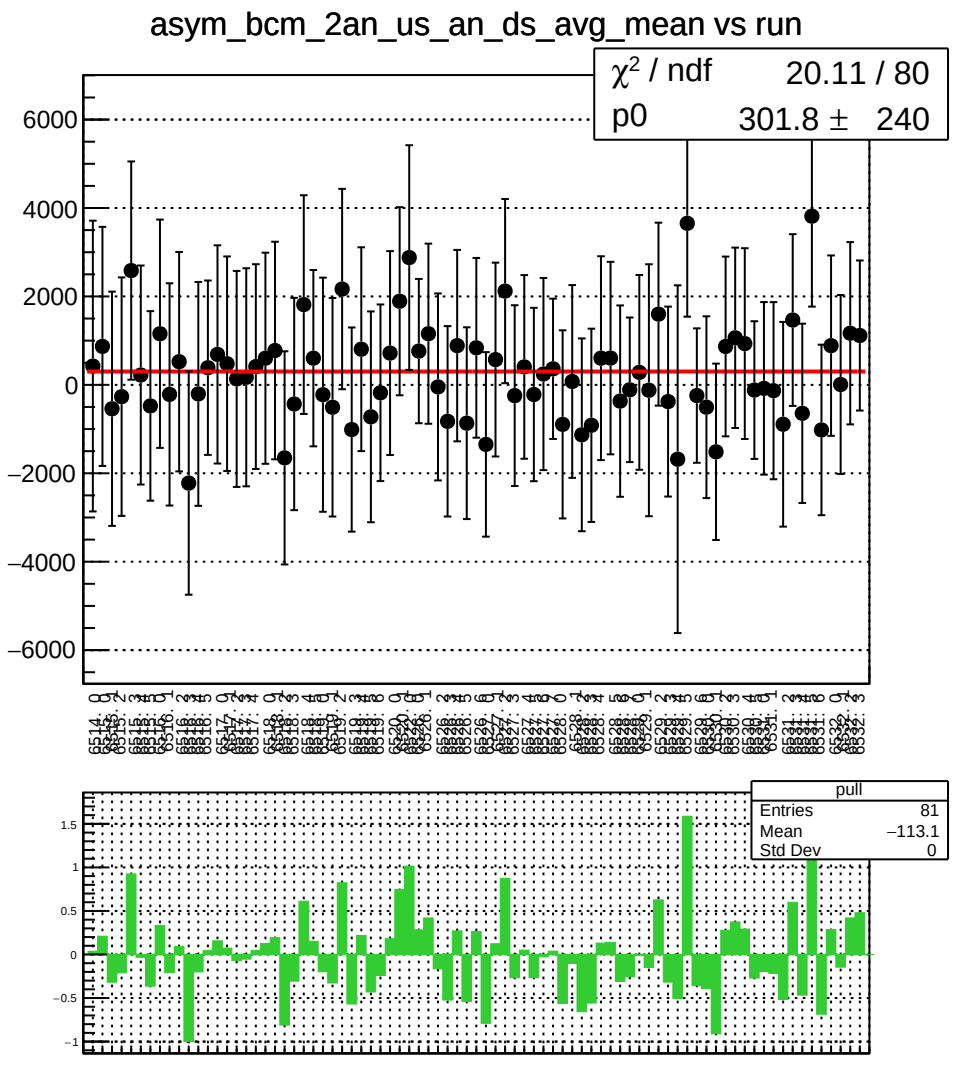

pull1D
Entries 81
Mean −0.2444
Std Dev 3.246
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

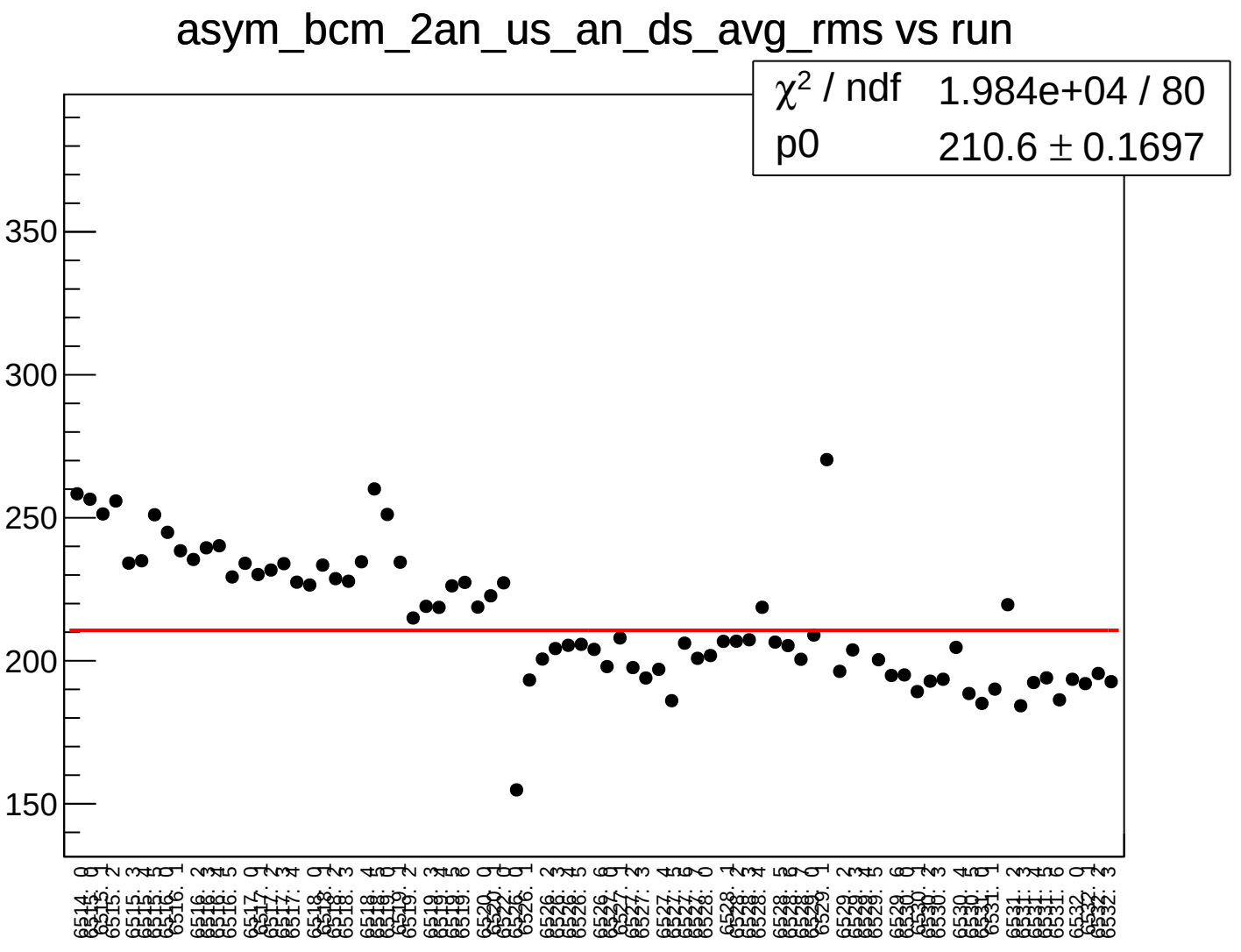

asym_bpm1i04WS_rms vs run
χ² / ndf 3.302e+04 / 80
p0 101.6 ± 0.0822
350
300
250
200
150
100

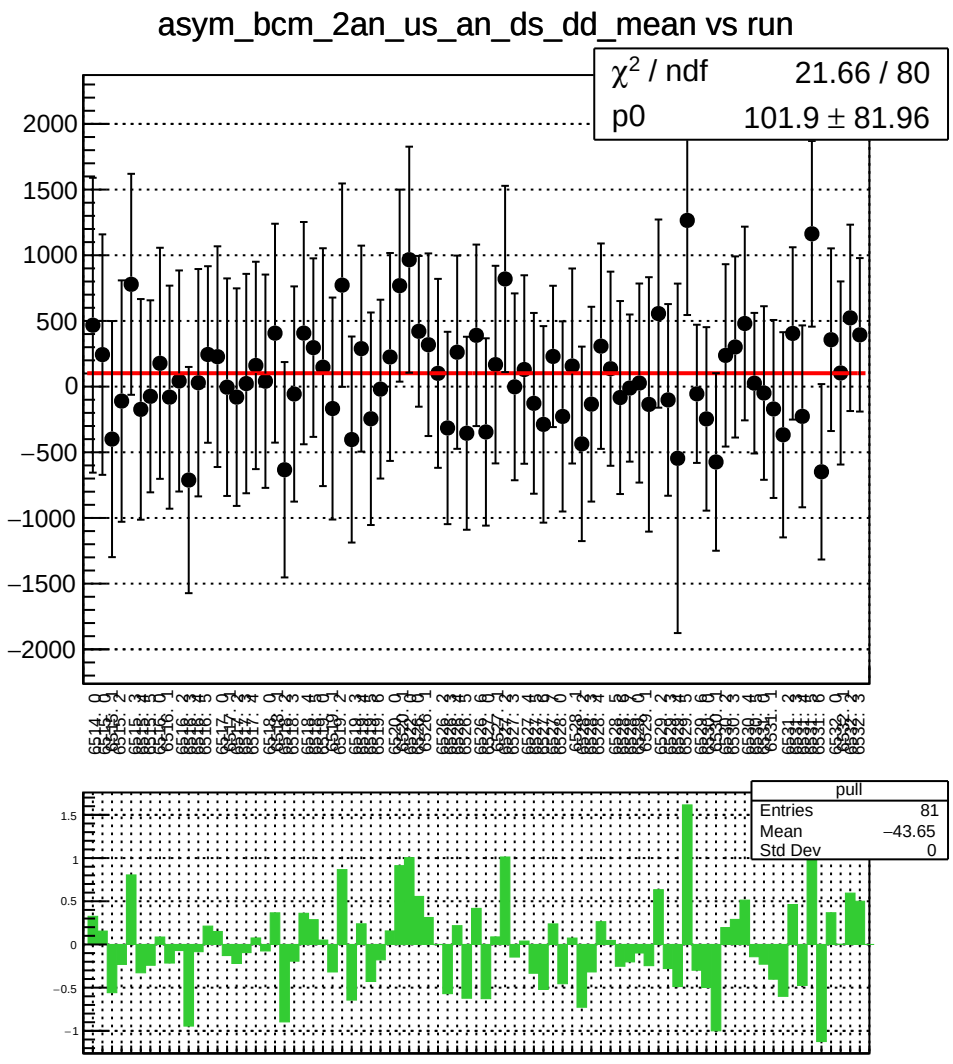

asym_bpm1i06WS_mean vs run
χ² / ndf 708.9 / 80
p0 4037 ± 155.1
15000
10000
5000
0
−5000
pull
Entries 81
Mean −1305
Std Dev 0
8
6
4
2
0
−2
−4
−6

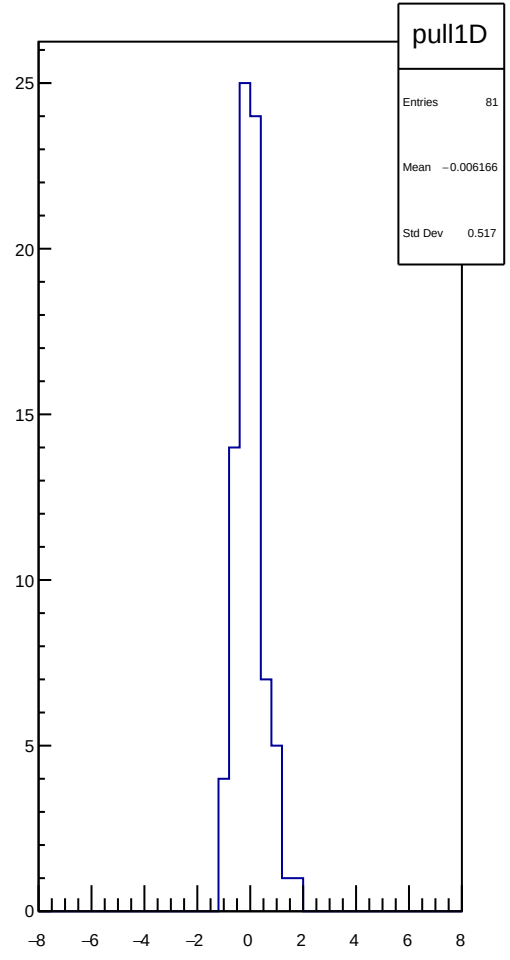

pull1D
Entries 81
Mean −0.09131
Std Dev 2.834
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

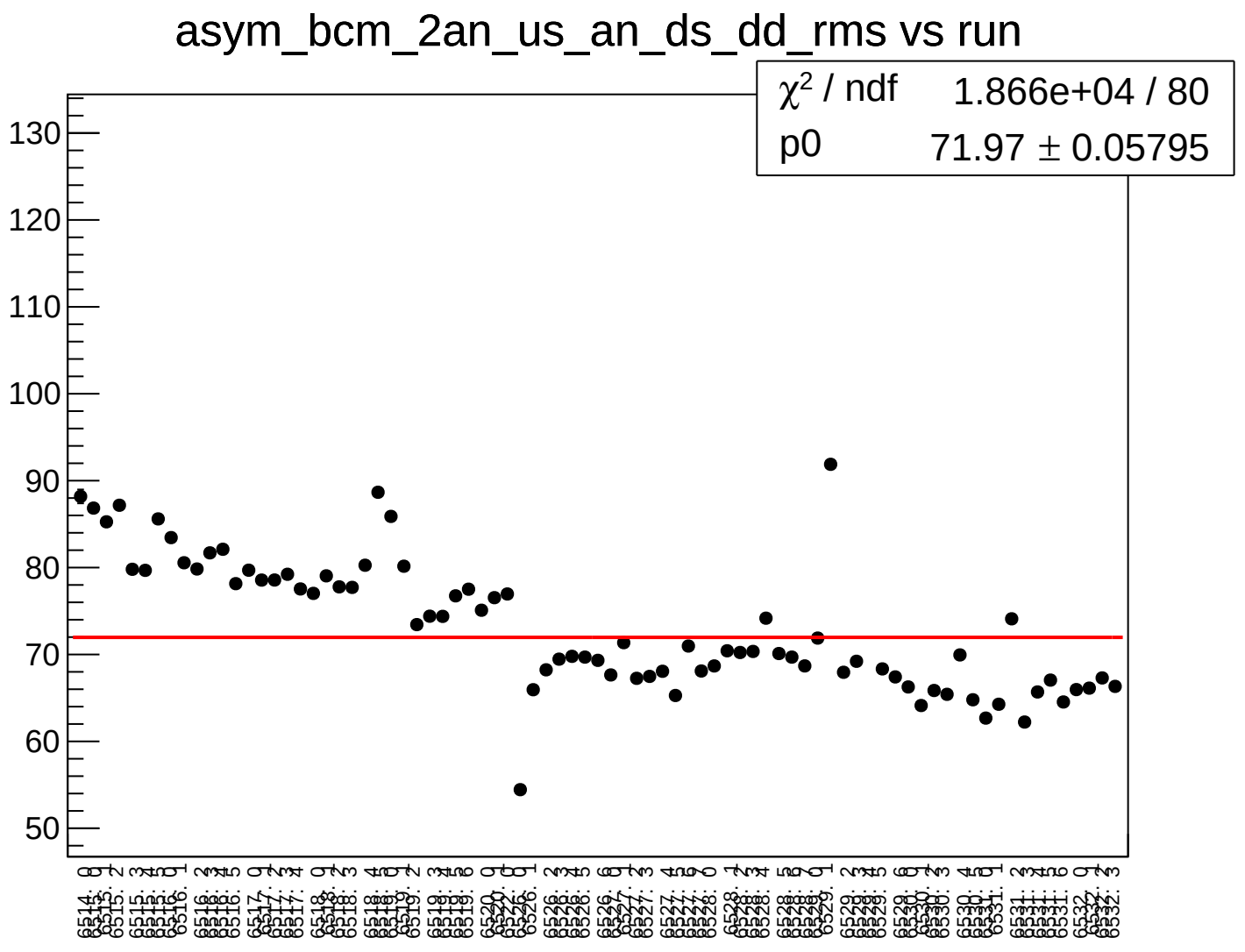

asym_bpm1i06WS_rms vs run
χ² / ndf 1.957e+04 / 80
p0 136.2 ± 0.1097
350
300
250
200
150
100

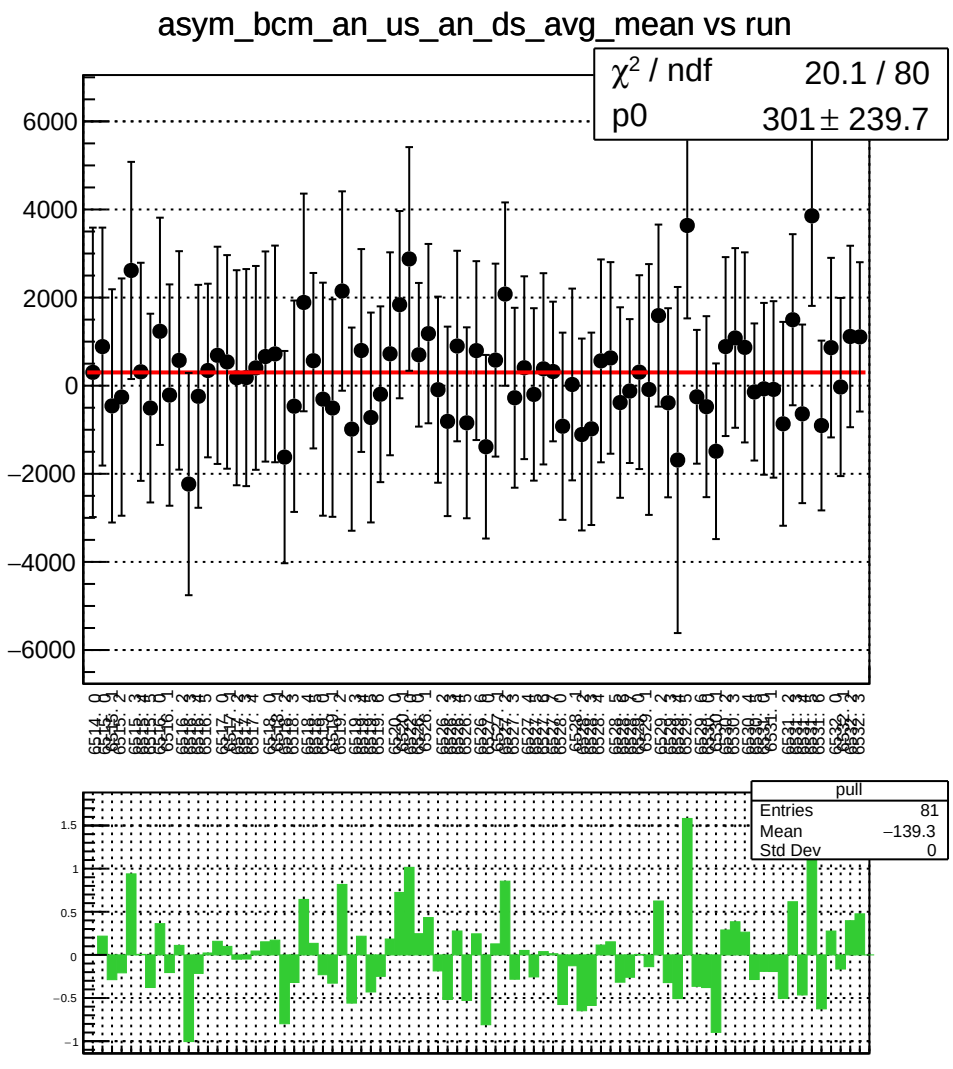

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 20.11 / 80
p0 301.8 ± 240
pull
Entries 81
Mean −113.1
Std Dev 0
pull1D
Entries 81
Mean −0.003012
Std Dev 0.4983

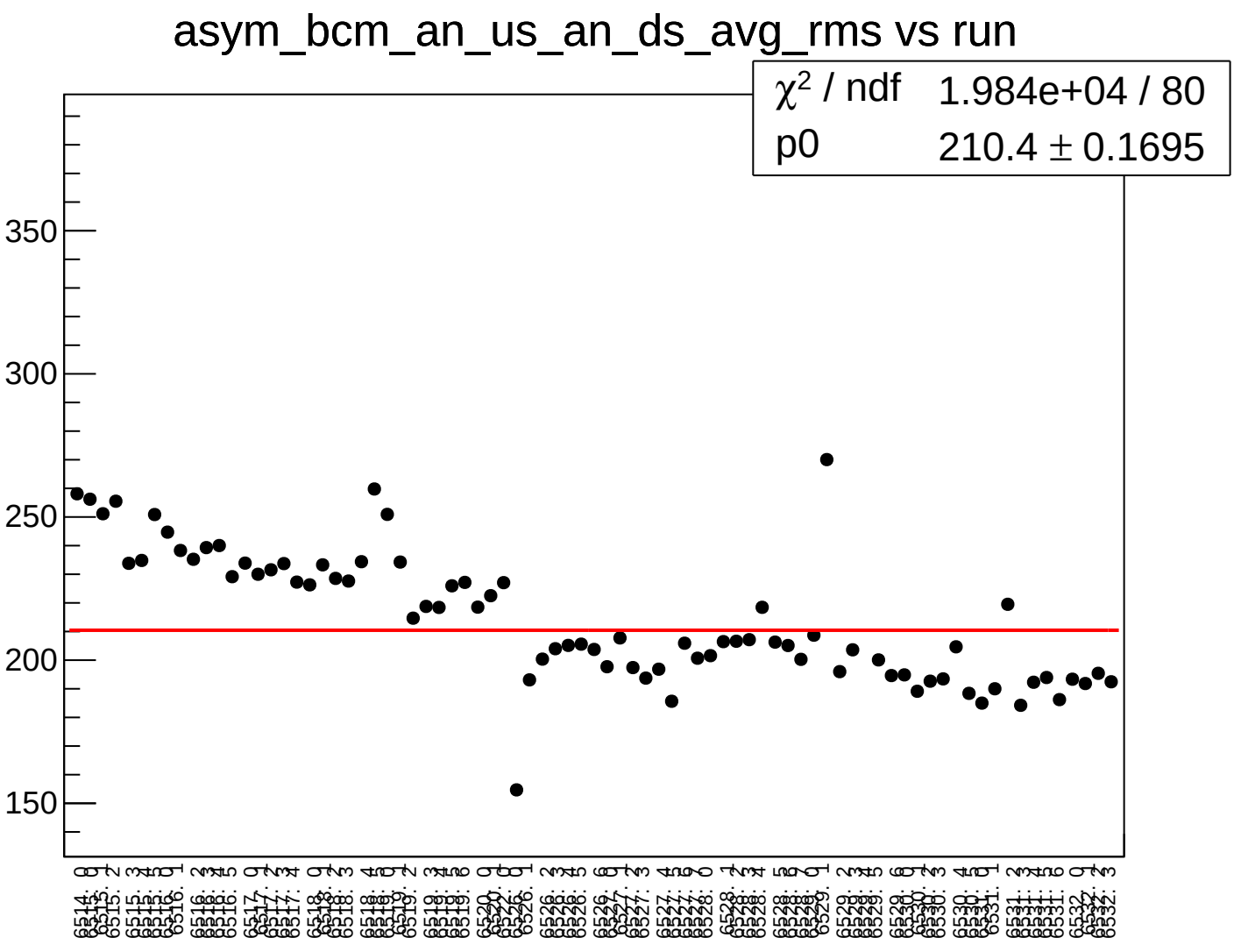

asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 1.984e+04 / 80
p0 210.6 ± 0.1697
350
300
250
200
150

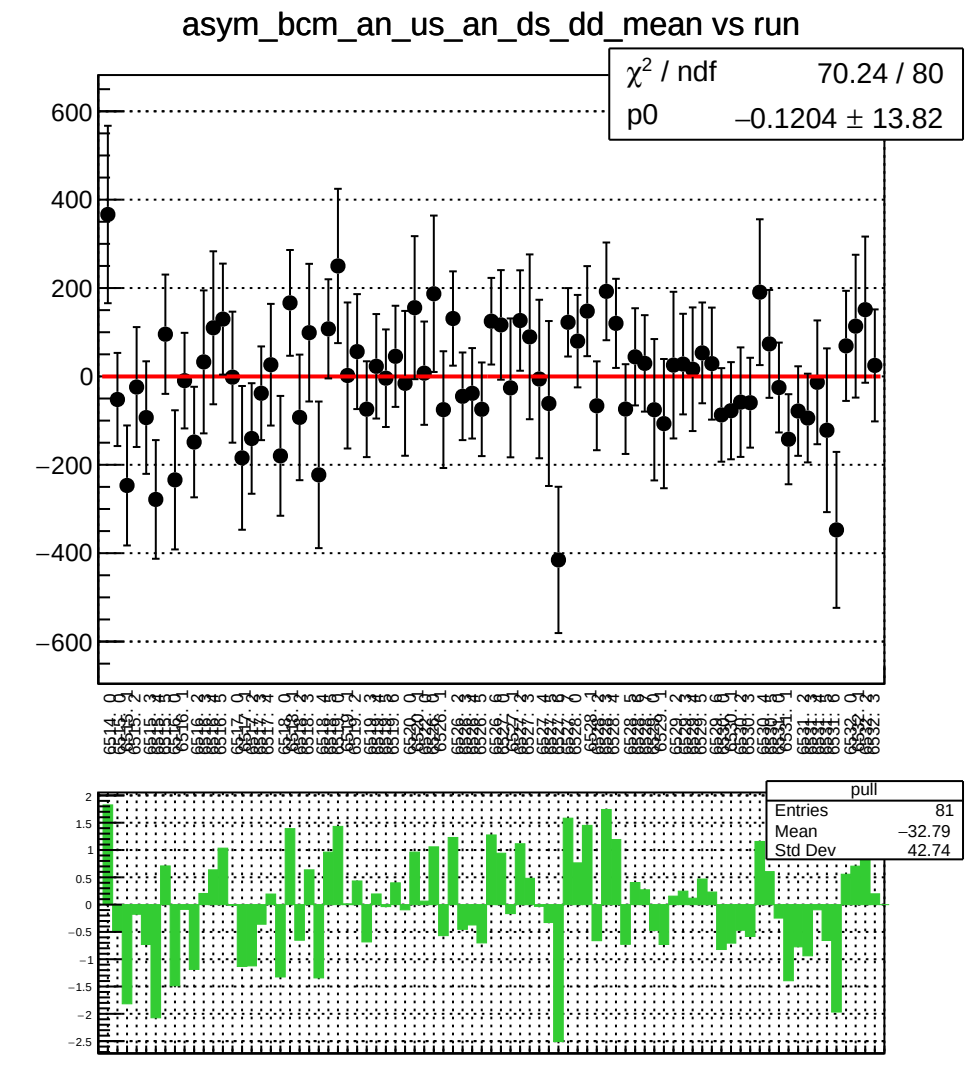

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 21.66 / 80
p0 101.9 ± 81.96
pull
Entries 81
Mean −43.65
Std Dev 0

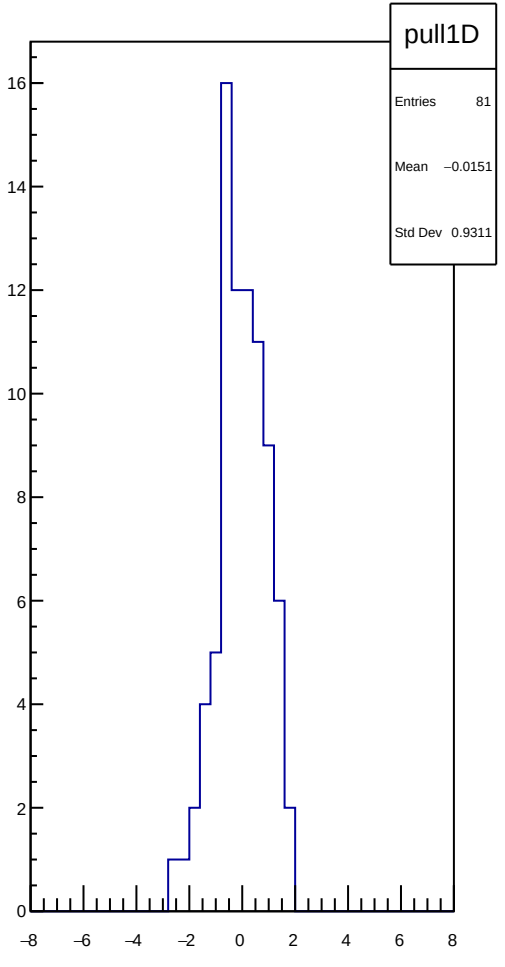

pull1D
Entries 81
Mean −0.006166
Std Dev 0.517

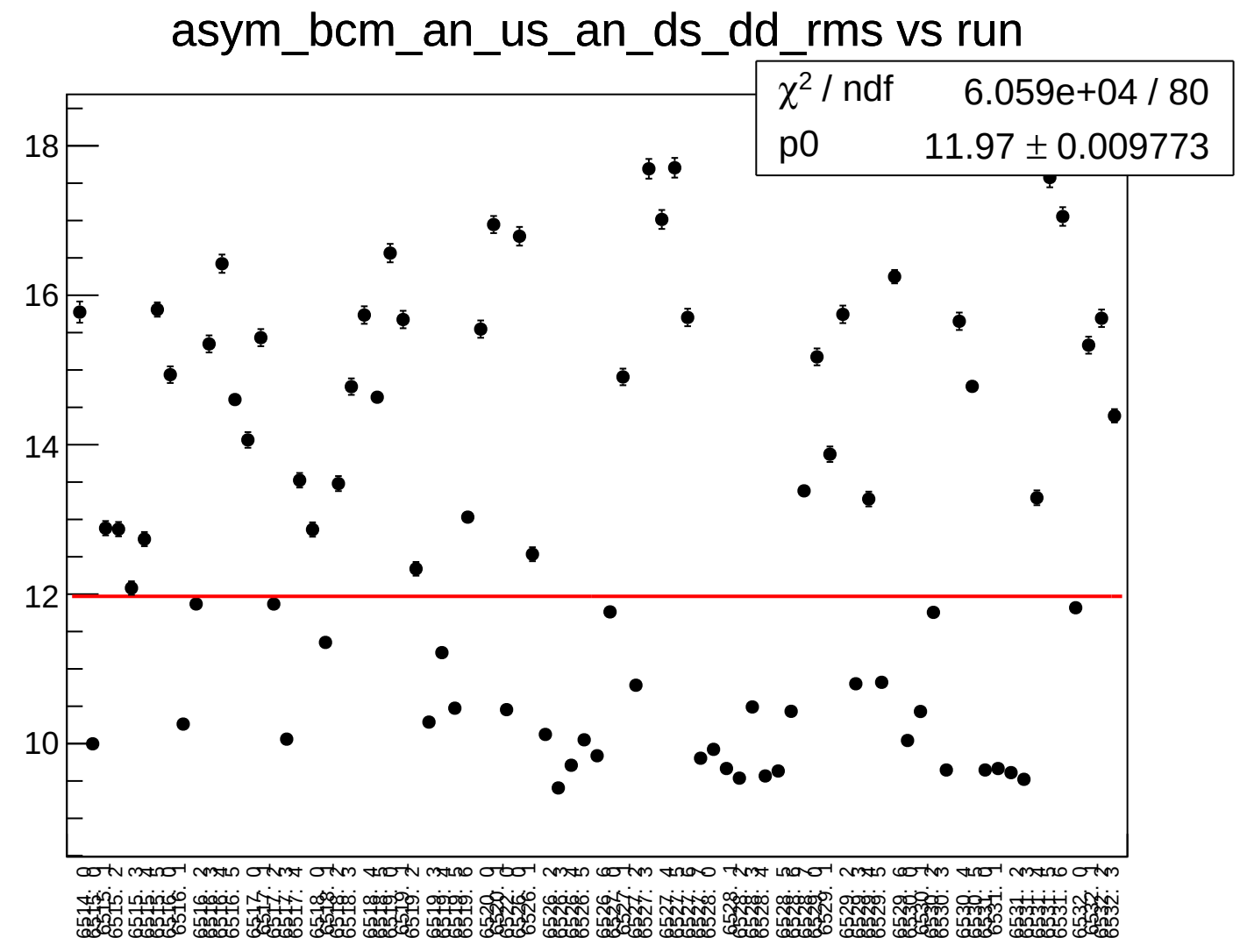

asym_bcm_2an_us_an_ds_dd_rms vs run
χ² / ndf 1.866e+04 / 80
p0 71.97 ± 0.05795
130
120
110
100
90
80
70
60
50

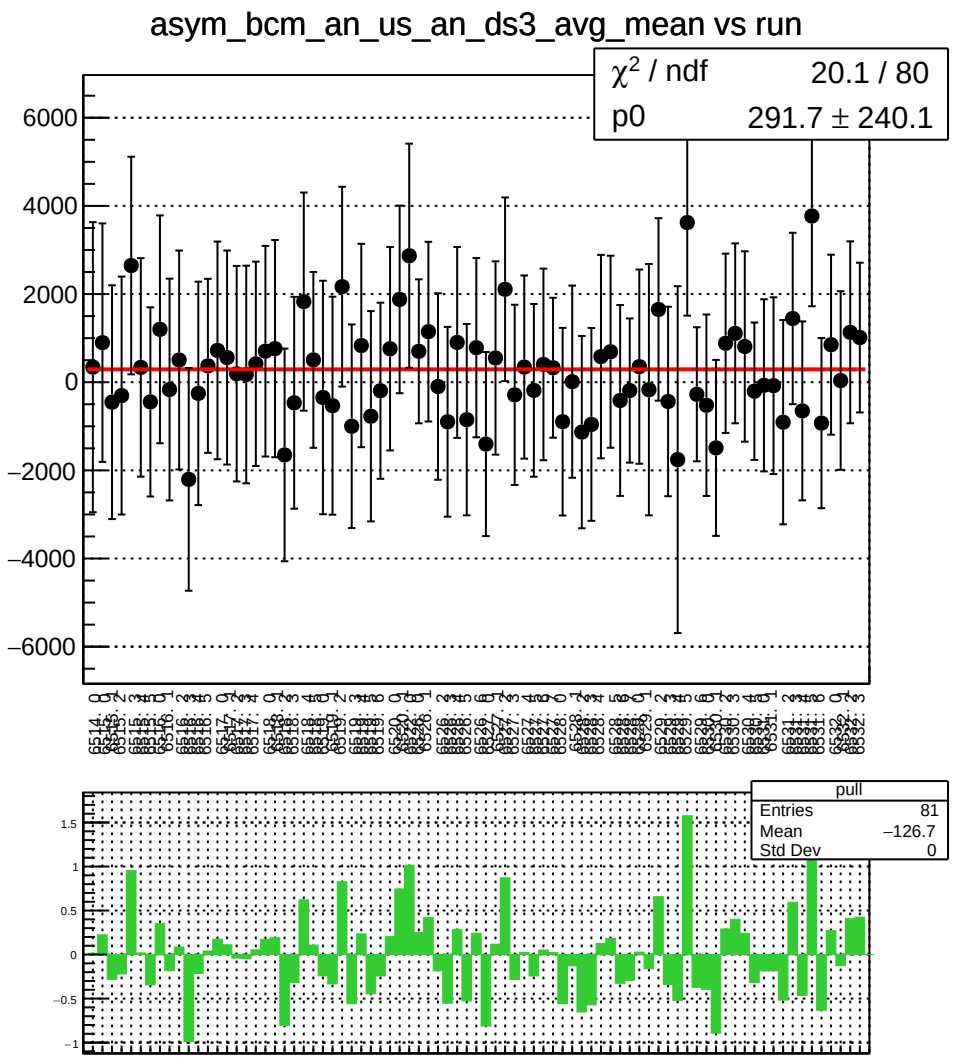

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 20.1 / 80
p0 301 ± 239.7
pull
Entries 81
Mean −139.3
Std Dev 0
pull1D
Entries 81
Mean −0.002524
Std Dev 0.4981

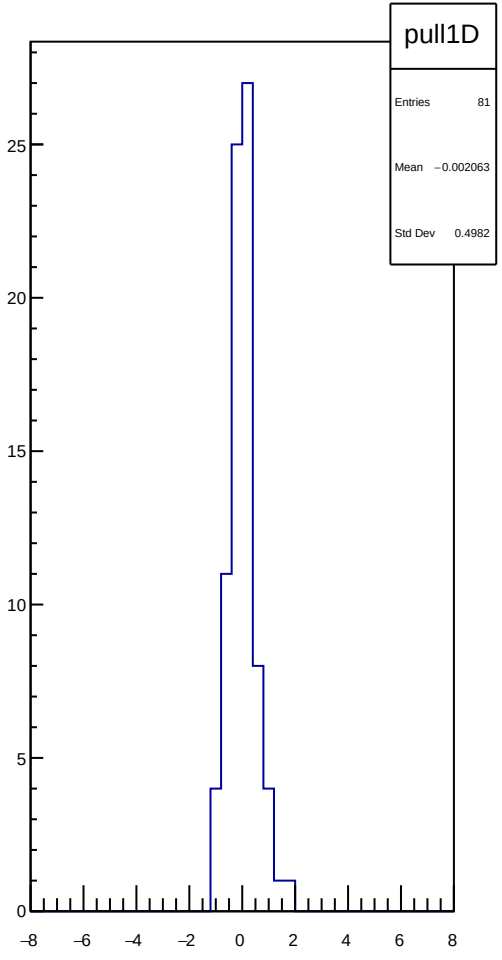

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 1.984e+04 / 80
p0 210.4 ± 0.1695
350
300
250
200
150

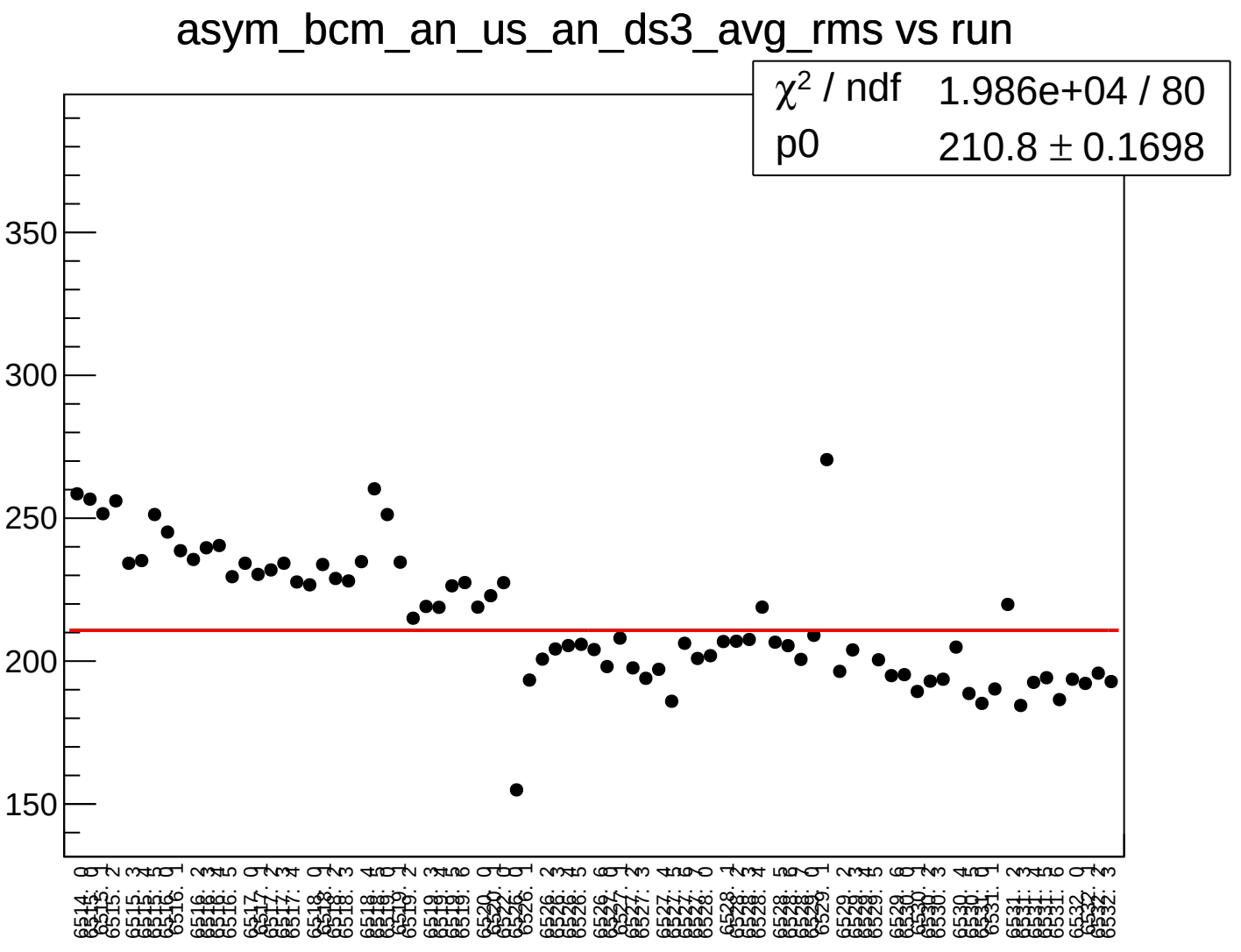

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 70.24 / 80
p0 −0.1204 ± 13.82
pull
Entries 81
Mean −32.79
Std Dev 42.74

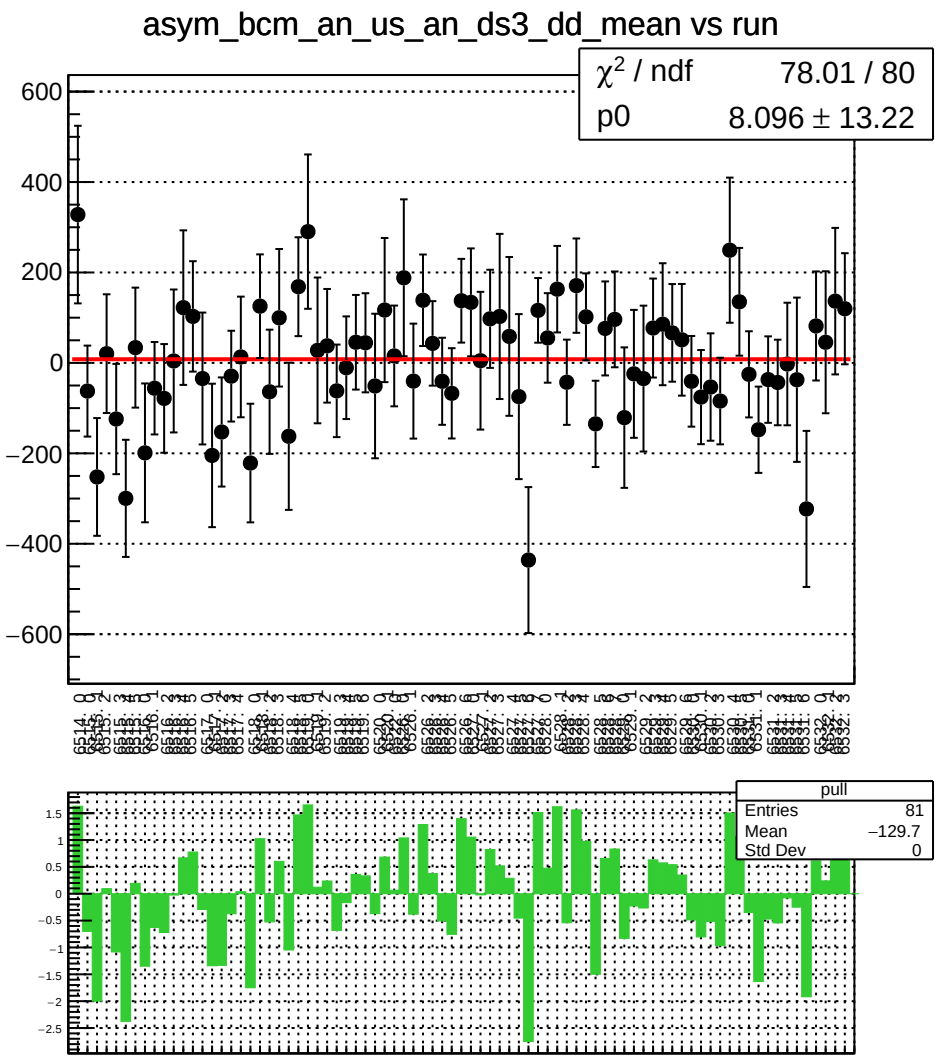

pull1D
Entries 81
Mean −0.0151
Std Dev 0.9311

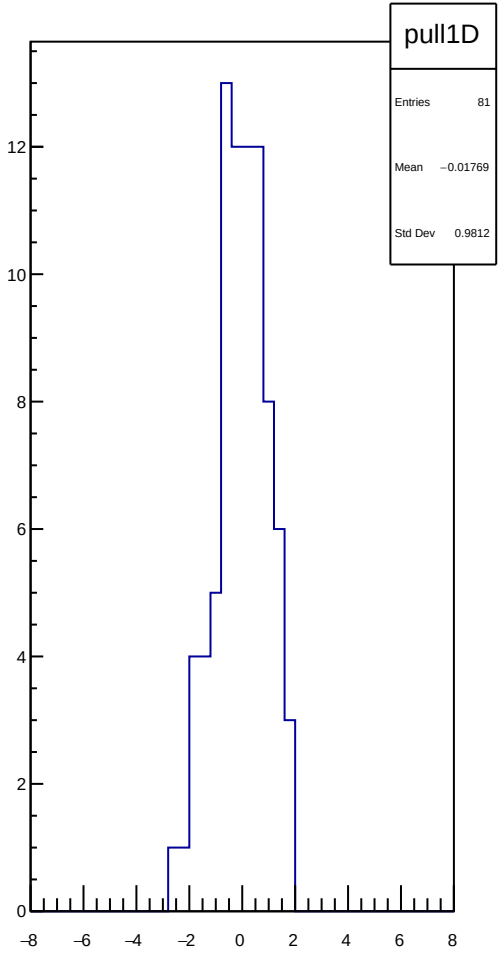

asym_bcm_an_us_an_ds_dd_rms vs run
χ² / ndf 6.059e+04 / 80
p0 11.97 ± 0.009773
18
16
14
12
10

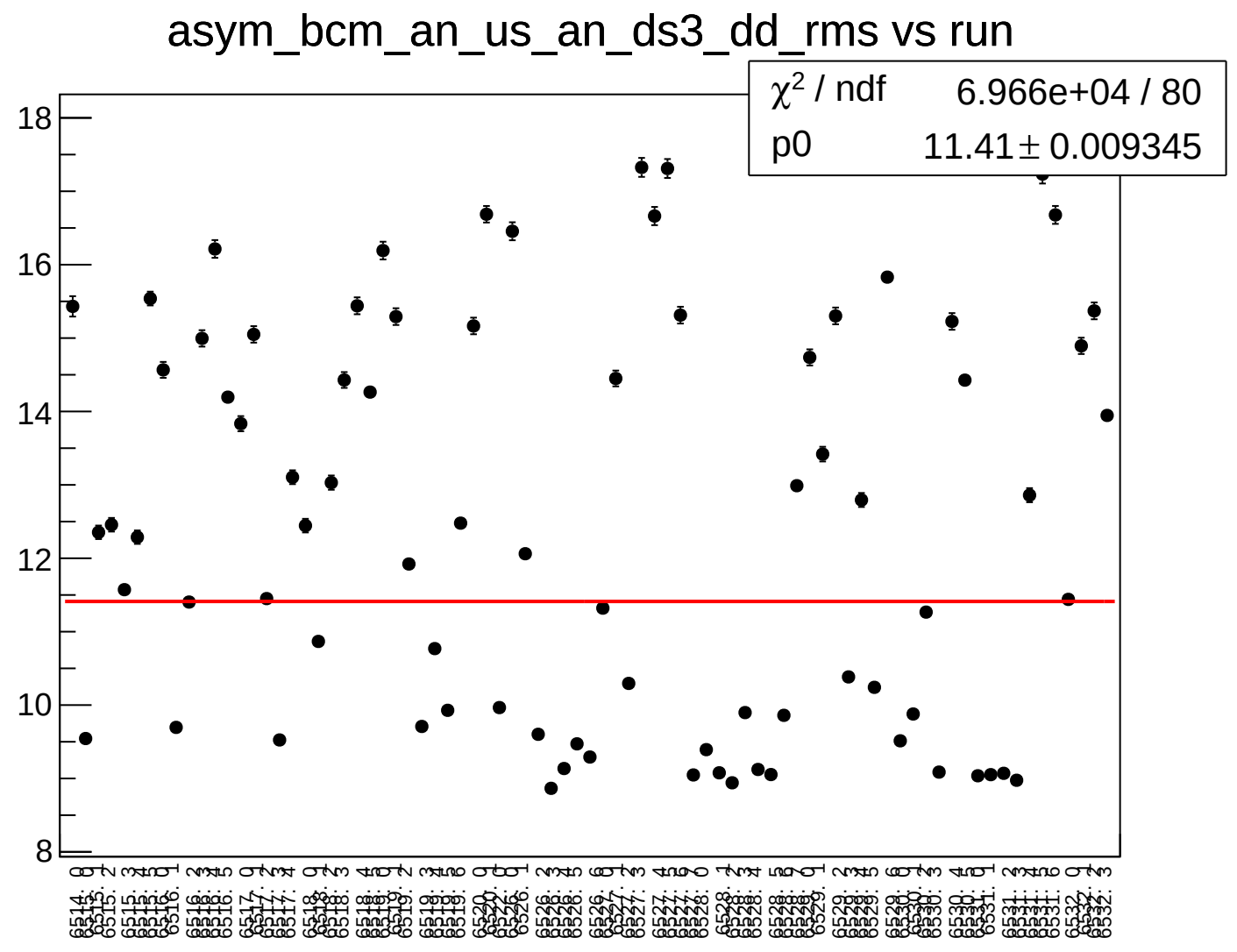

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 20.1 / 80
p0 291.7 ± 240.1
pull
Entries 81
Mean −126.7
Std Dev 0

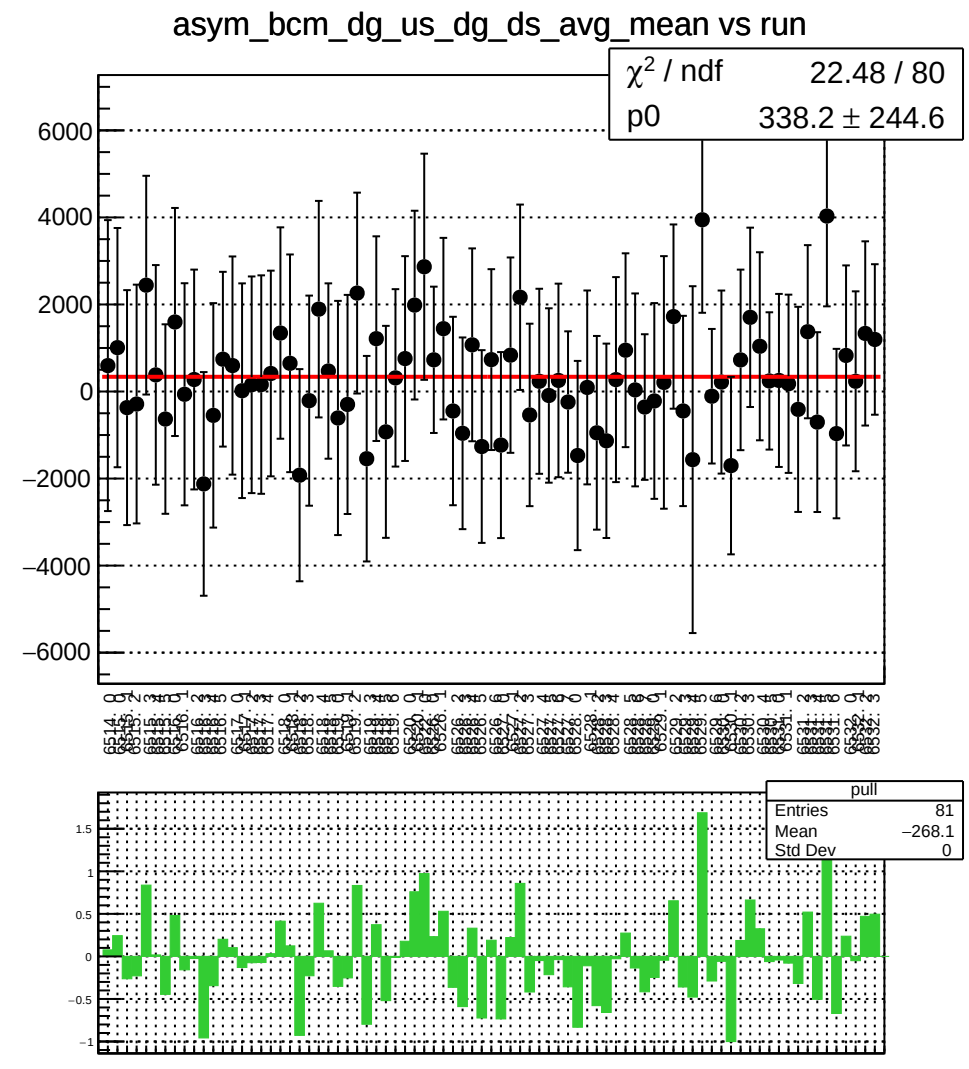

pull1D
Entries 81
Mean −0.002063
Std Dev 0.4982

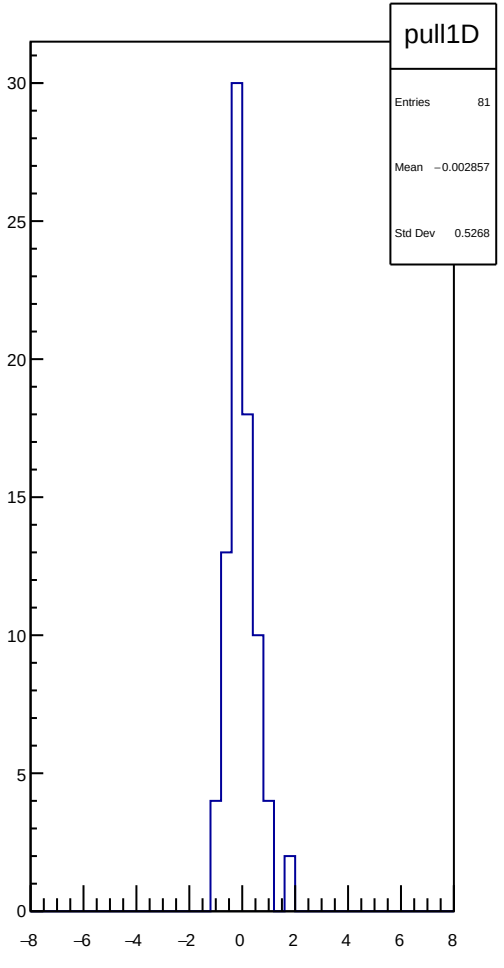

asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 1.986e+04 / 80
p0 210.8 ± 0.1698
350
300
250
200
150

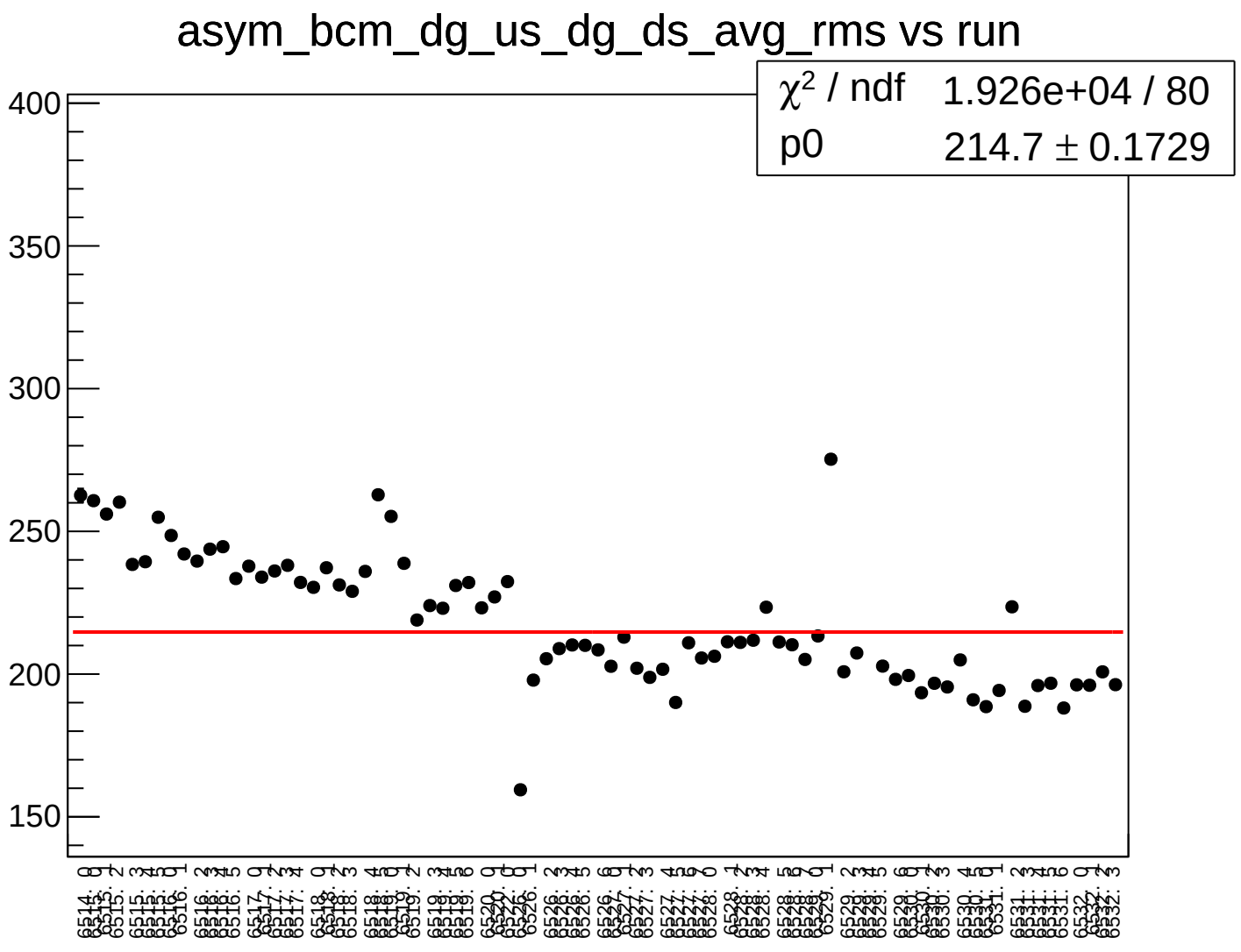

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 78.01 / 80
p0 8.096 ± 13.22
pull
Entries 81
Mean −129.7
Std Dev 0

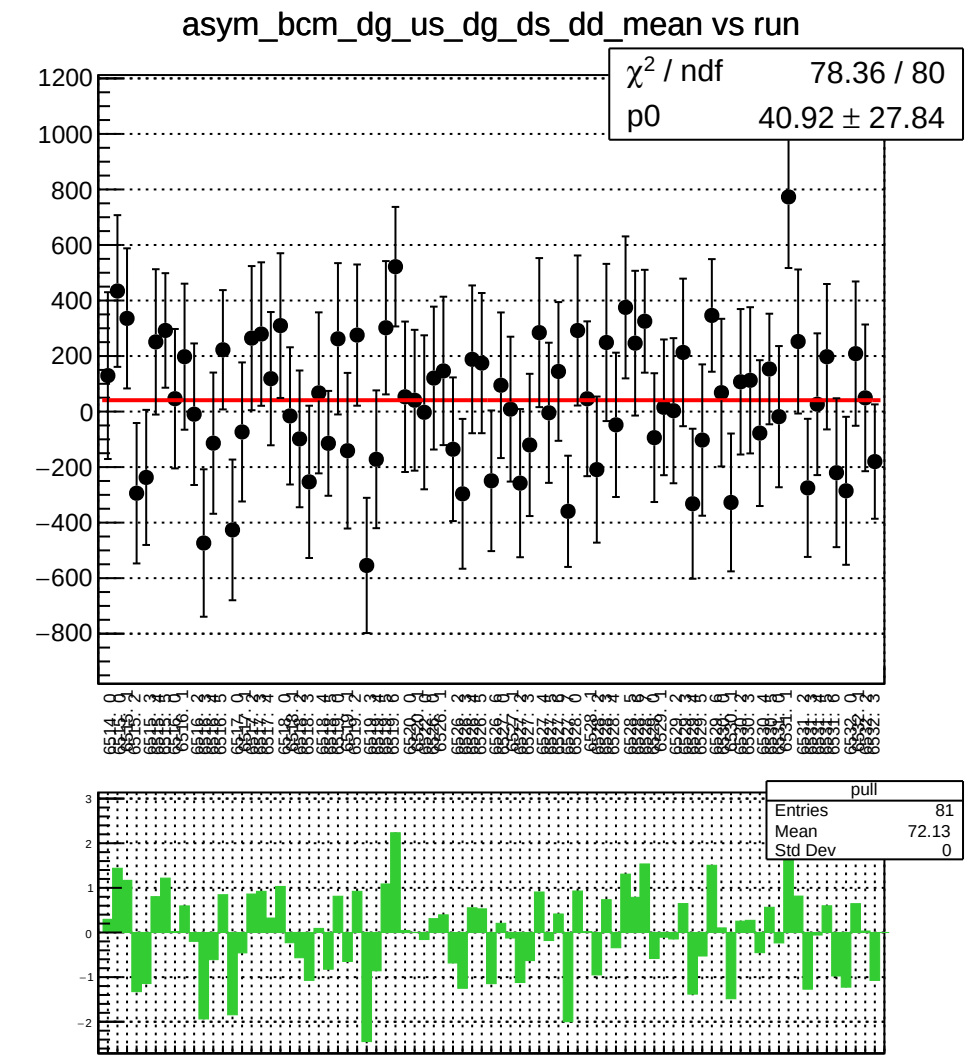

pull1D
Entries 81
Mean −0.01769
Std Dev 0.9812

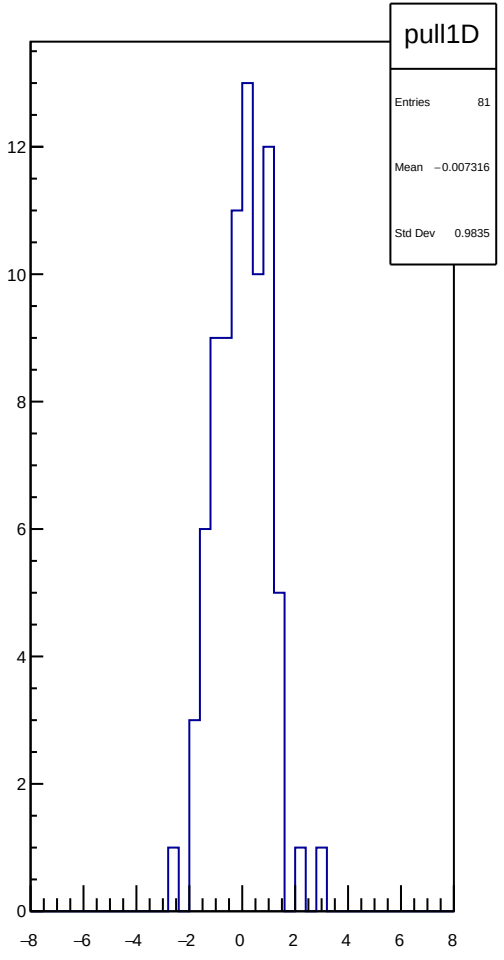

asym_bcm_an_us_an_ds3_dd_rms vs run
χ² / ndf 6.966e+04 / 80
p0 11.41 ± 0.009345
18
16
14
12
10
8

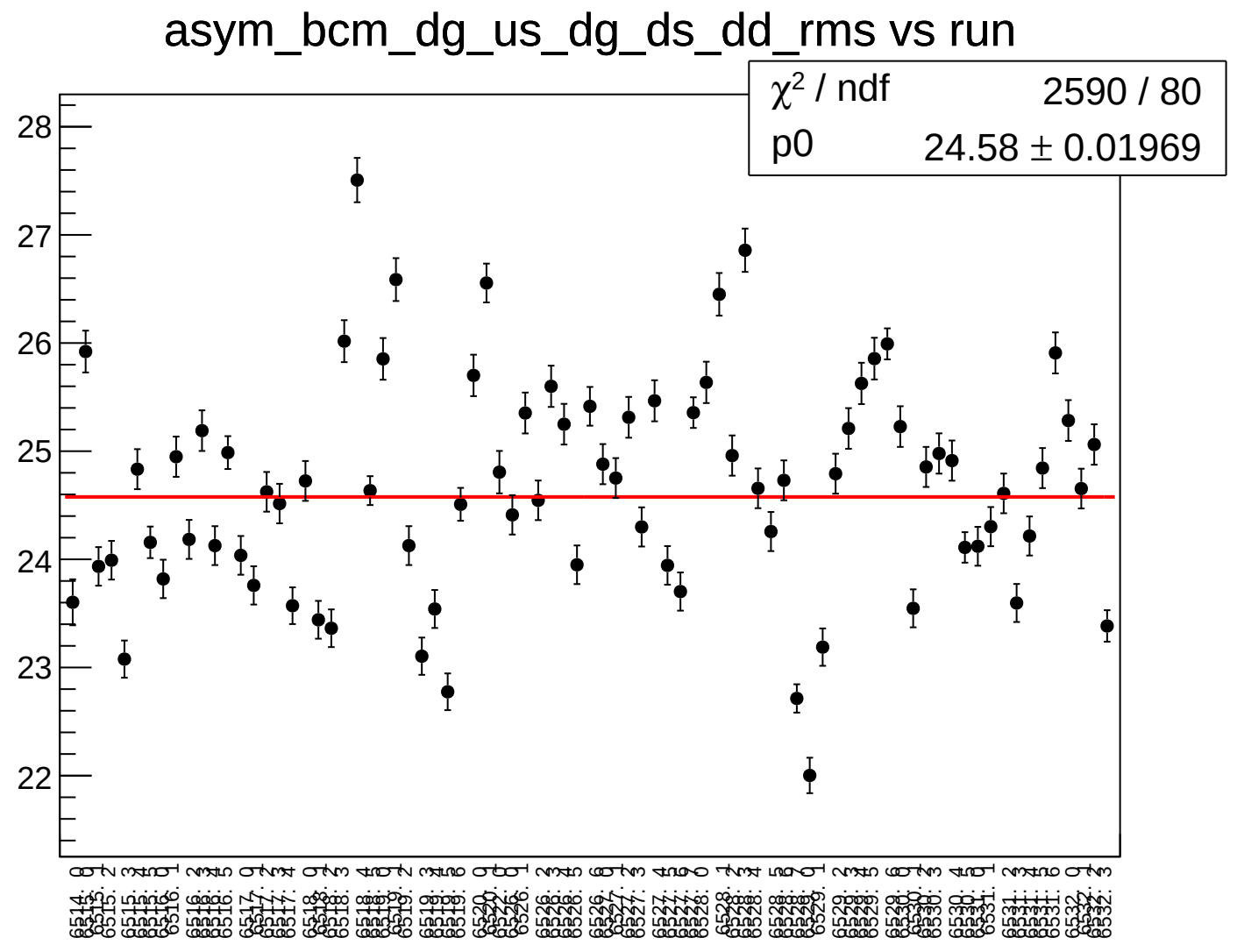

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 22.48 / 80
p0 338.2 ± 244.6
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 81
Mean −268.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1

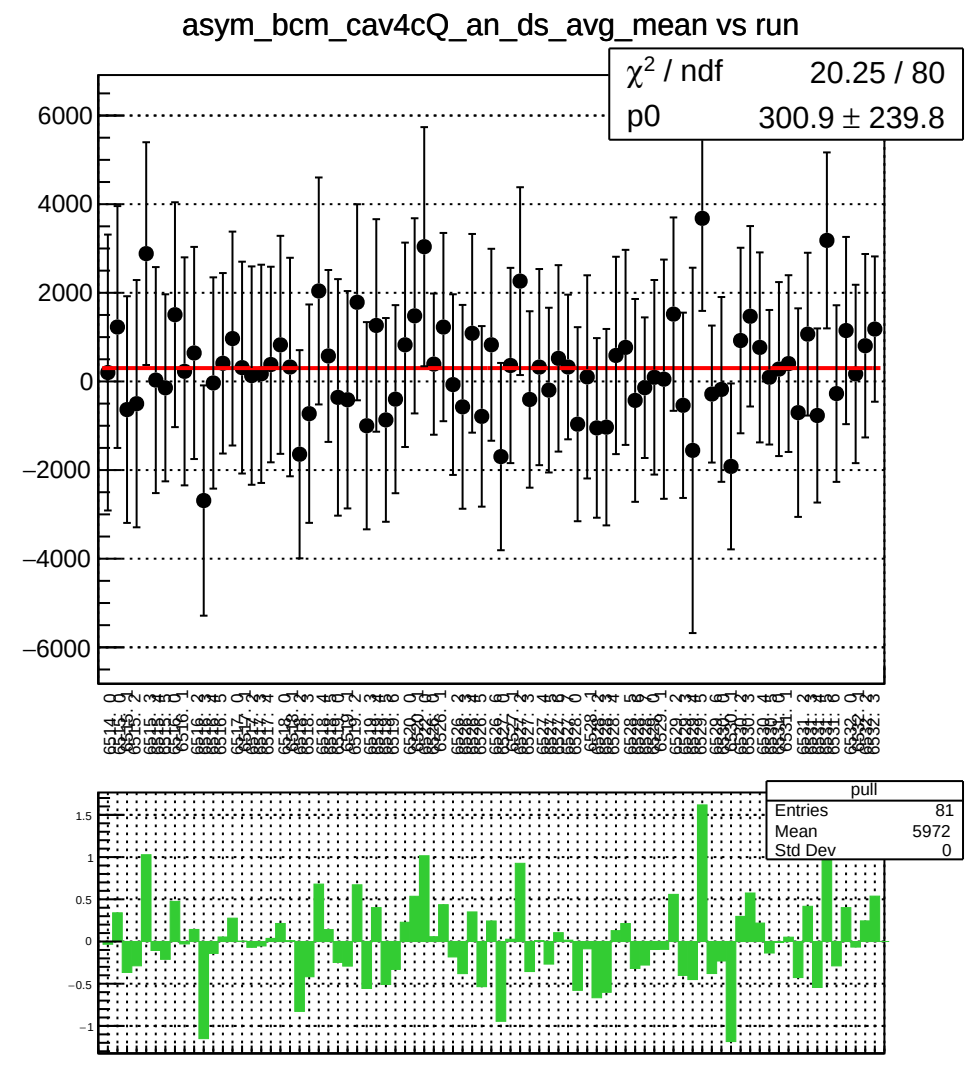

pull1D
Entries 81
Mean −0.002857
Std Dev 0.5268
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

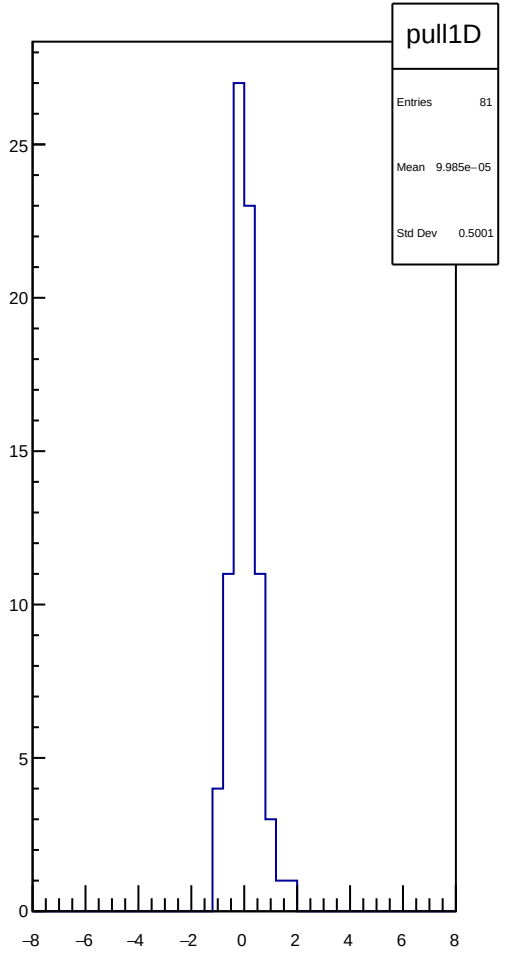

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 1.926e+04 / 80
p0 214.7 ± 0.1729
400
350
300
250
200
150

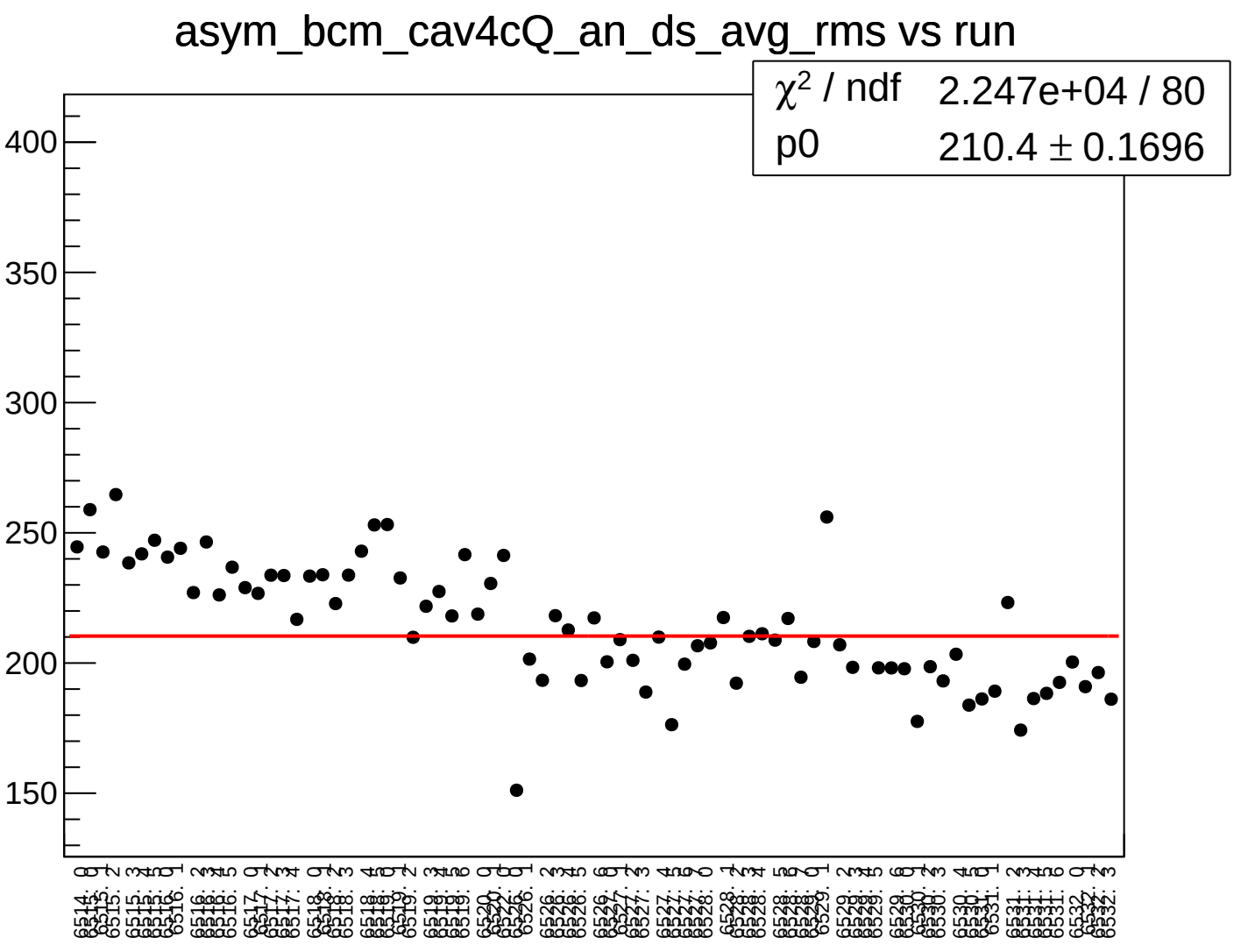

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 78.36 / 80
p0 40.92 ± 27.84
pull
Entries 81
Mean 72.13
Std Dev 0

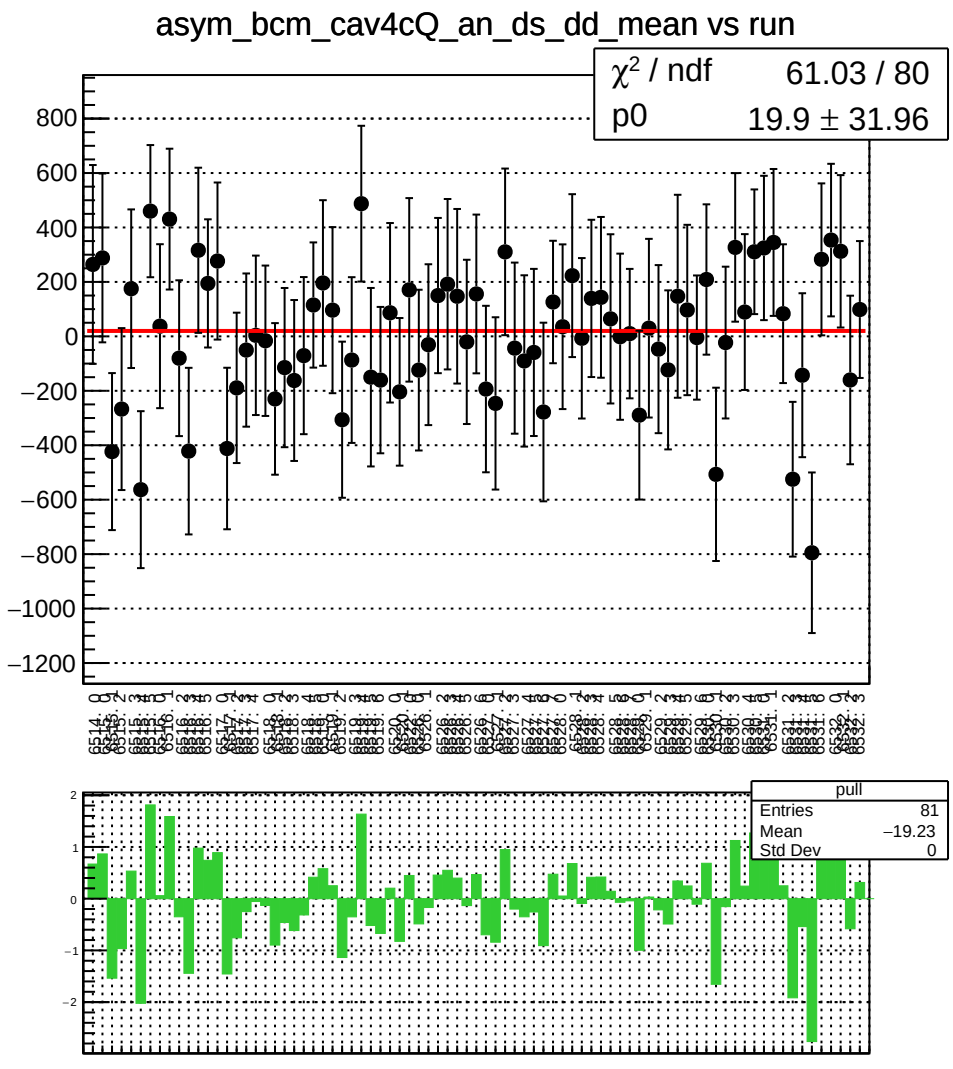

pull1D
Entries 81
Mean −0.007316
Std Dev 0.9835

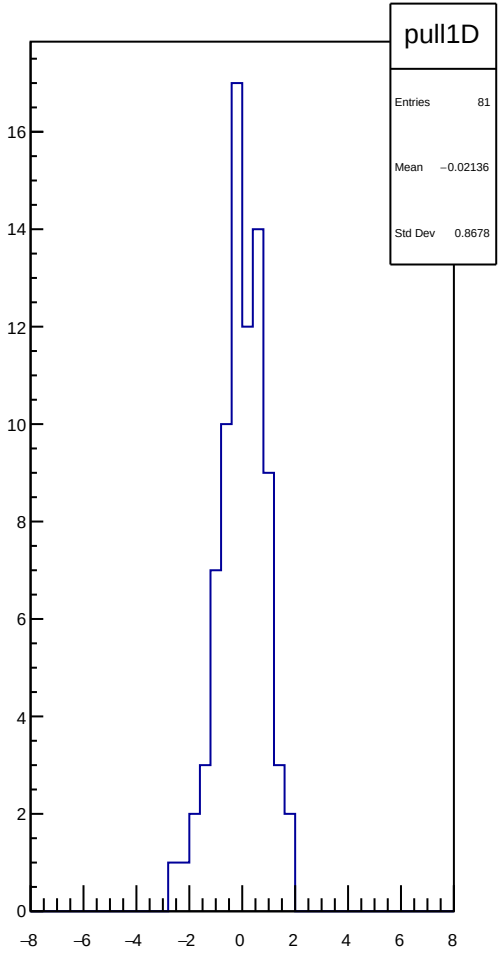

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 2590 / 80
p0 24.58 ± 0.01969
28
27
26
25
24
23
22

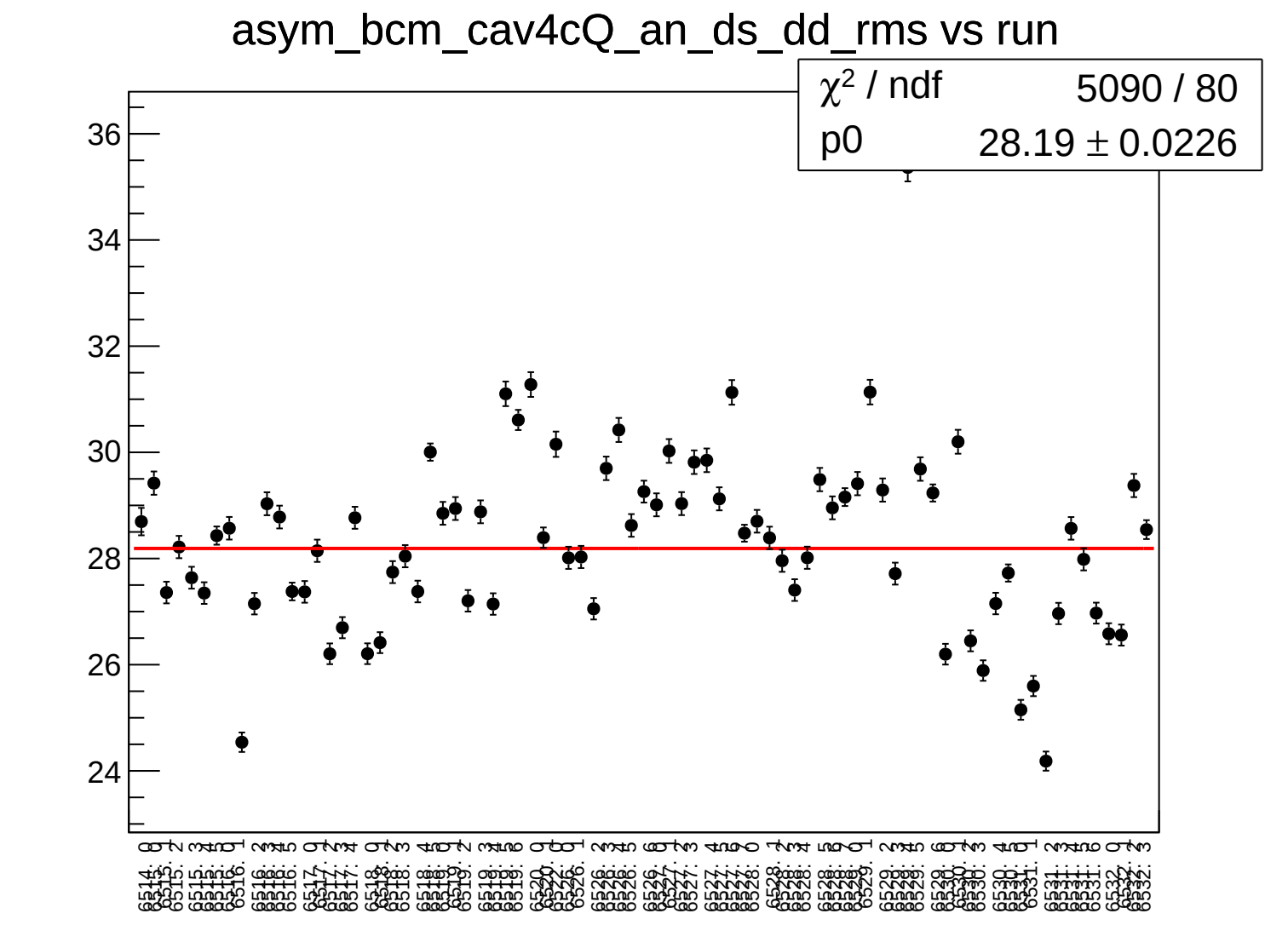

asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 20.25 / 80
p0 300.9 ± 239.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 81
Mean 5972
Std Dev 0
1.5
1
0.5
0
−0.5
−1

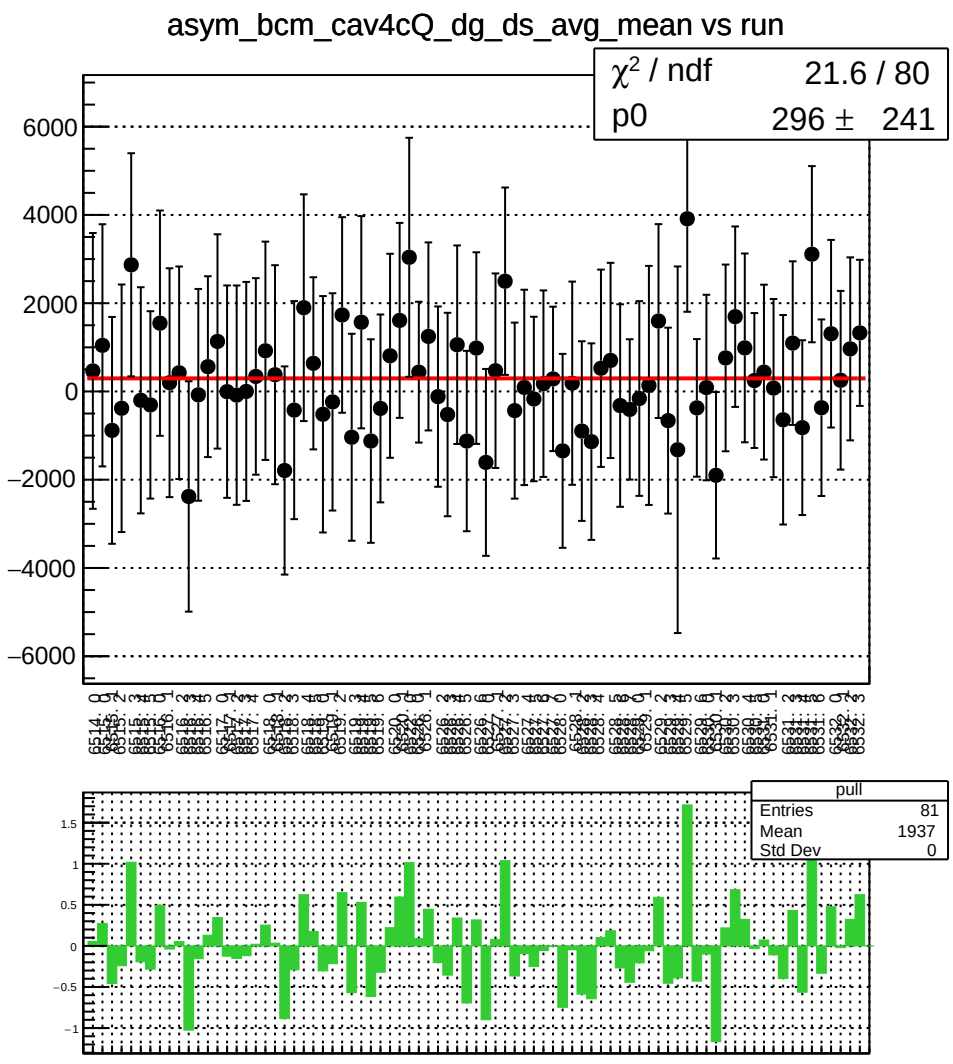

pull1D
Entries 81
Mean 9.985e−05
Std Dev 0.5001
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

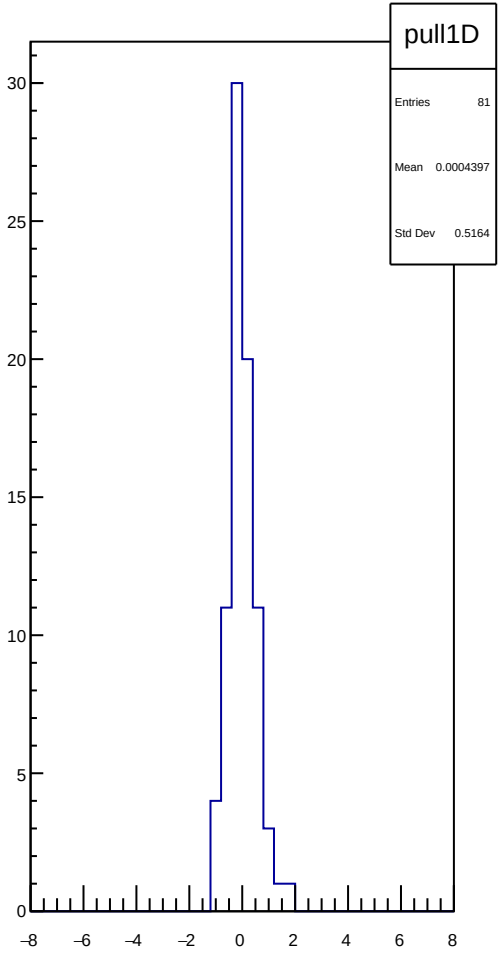

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 2.247e+04 / 80
p0 210.4 ± 0.1696
400
350
300
250
200
150

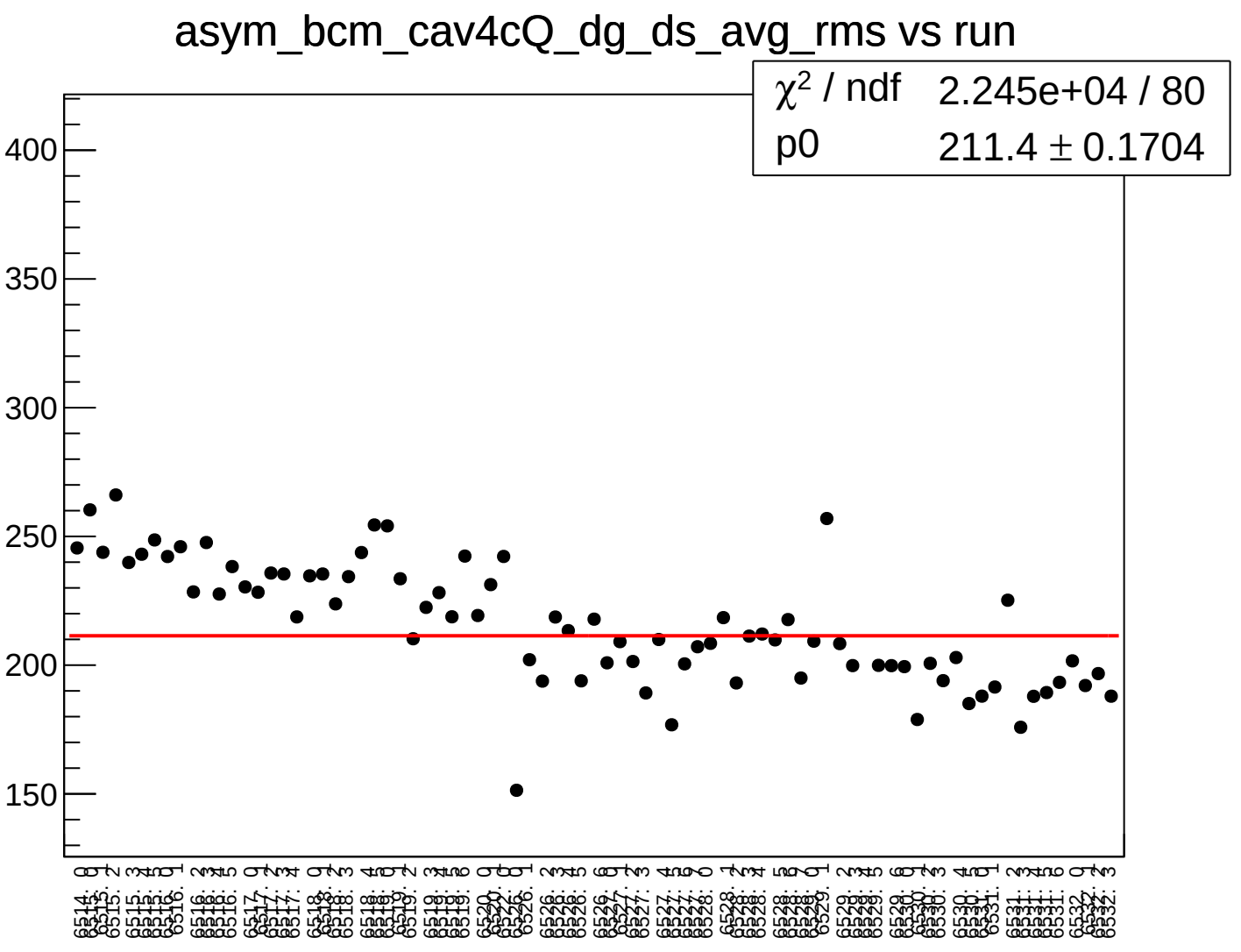

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 61.03 / 80
p0 19.9 ± 31.96
pull
Entries 81
Mean −19.23
Std Dev 0

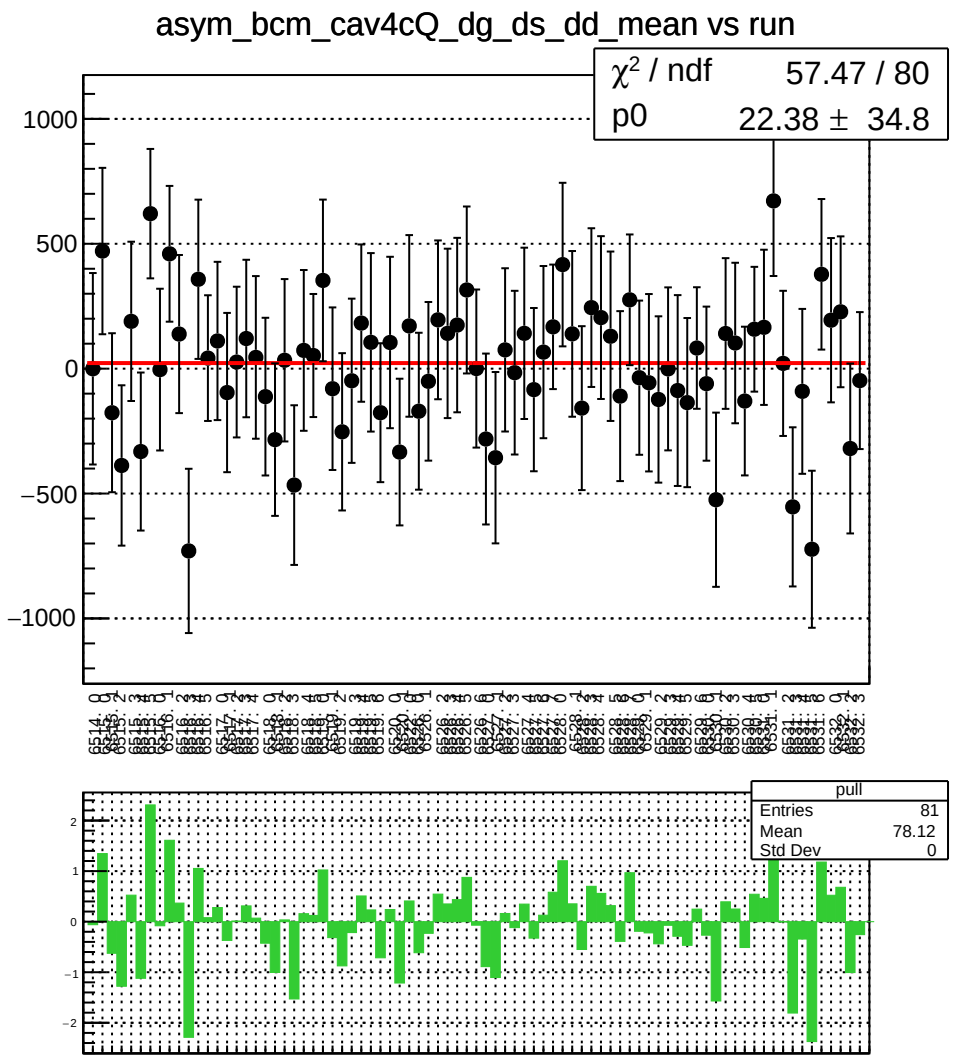

pull1D
Entries 81
Mean −0.02136
Std Dev 0.8678

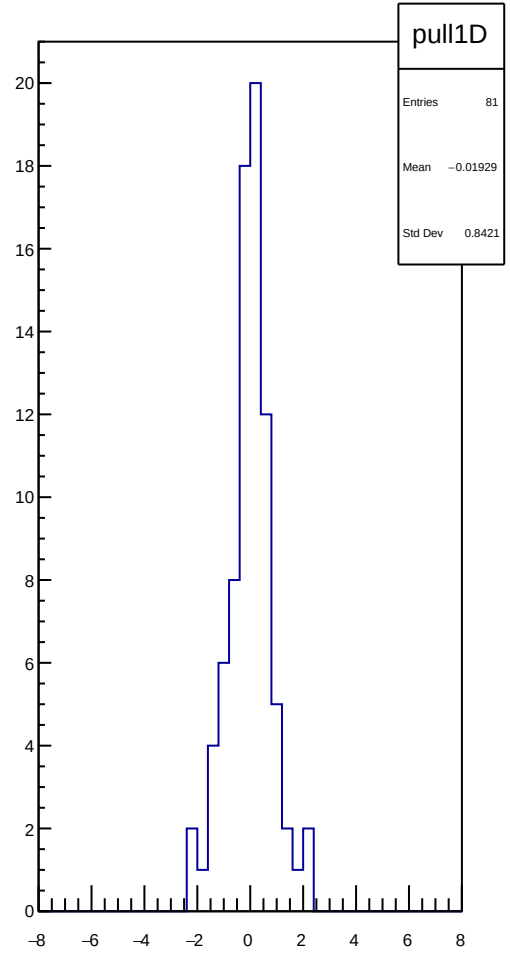

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 5090 / 80
p0 28.19 ± 0.0226
36
34
32
30
28
26
24

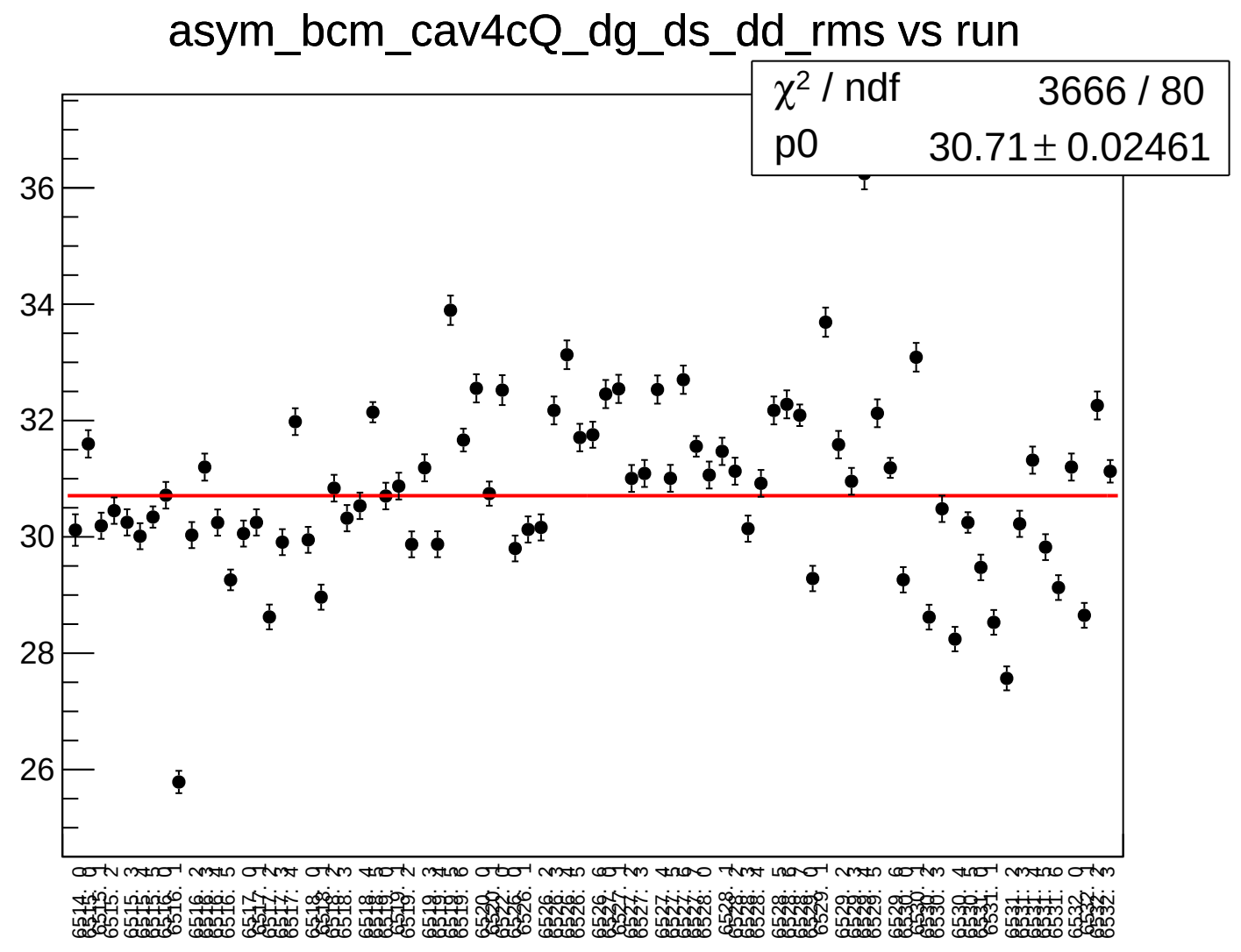

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 21.6 / 80
p0 296 ± 241
pull
Entries 81
Mean 1937
Std Dev 0

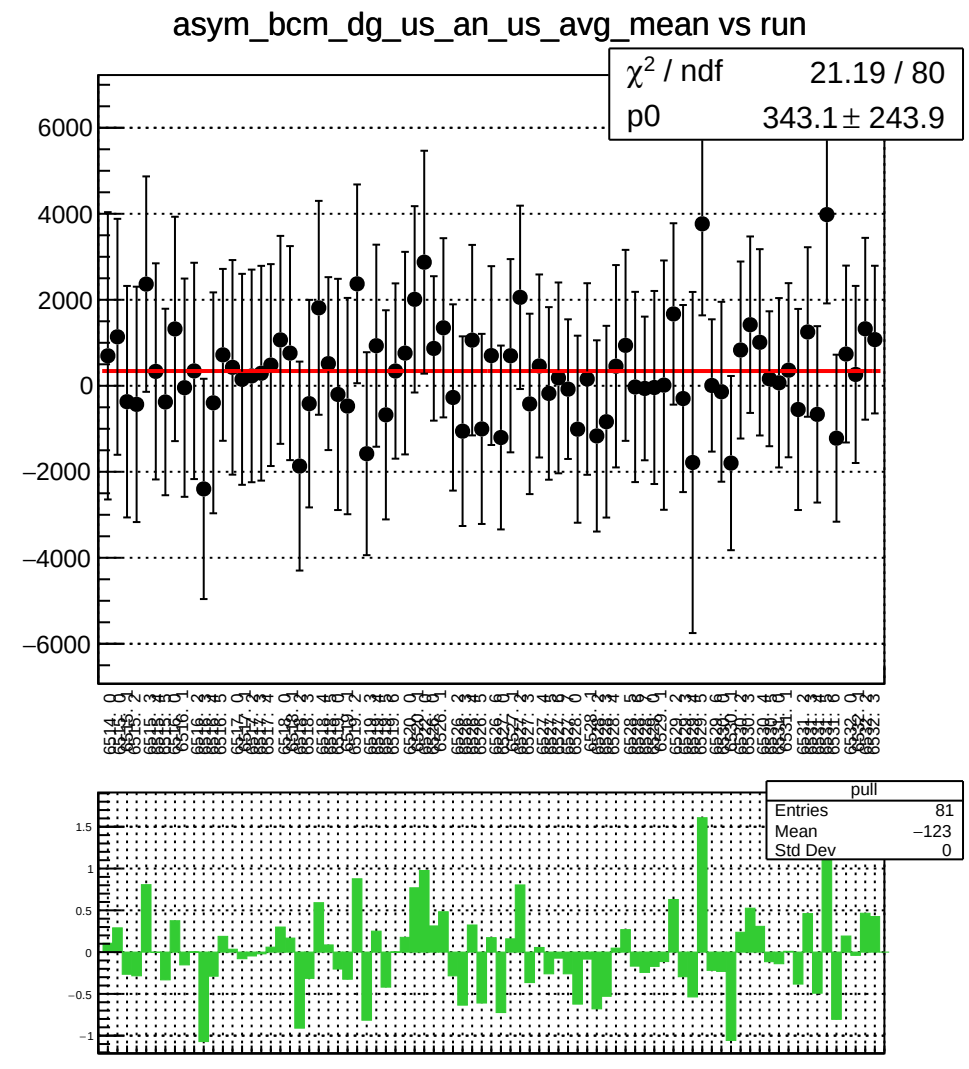

pull1D
Entries 81
Mean 0.0004397
Std Dev 0.5164

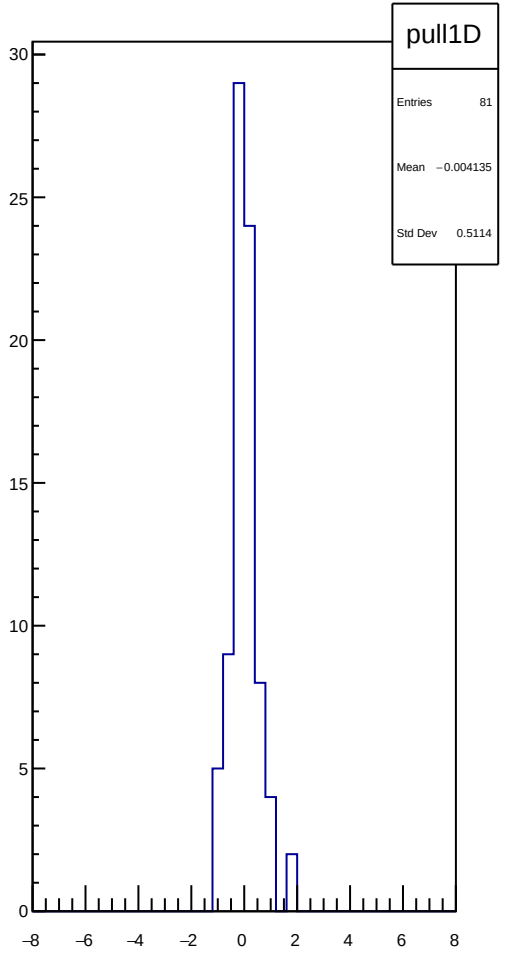

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 2.245e+04 / 80
p0 211.4 ± 0.1704
400
350
300
250
200
150

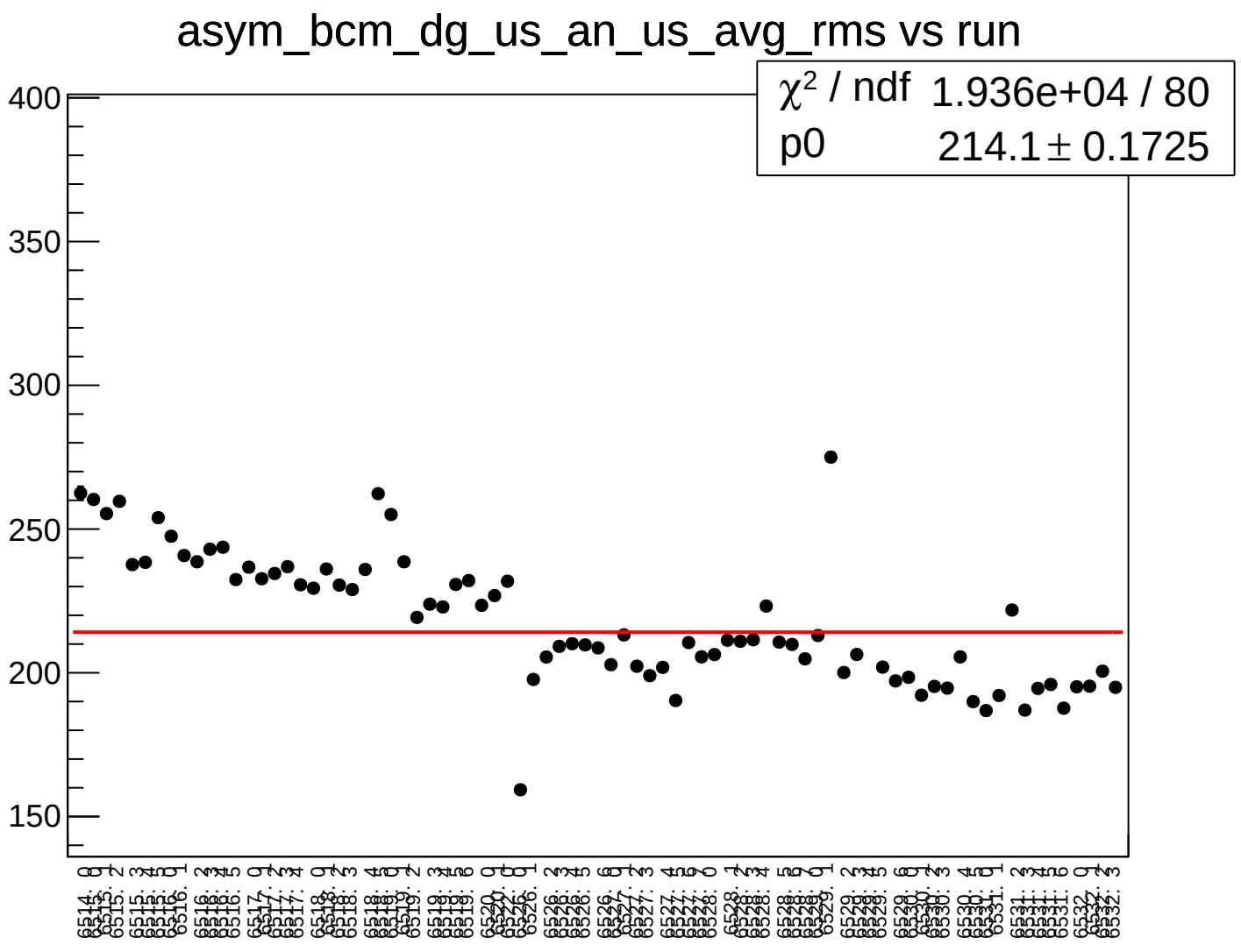

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 57.47 / 80
p0 22.38 ± 34.8
1000
500
0
−500
−1000
pull
Entries 81
Mean 78.12
Std Dev 0
2
1
0
−1
−2

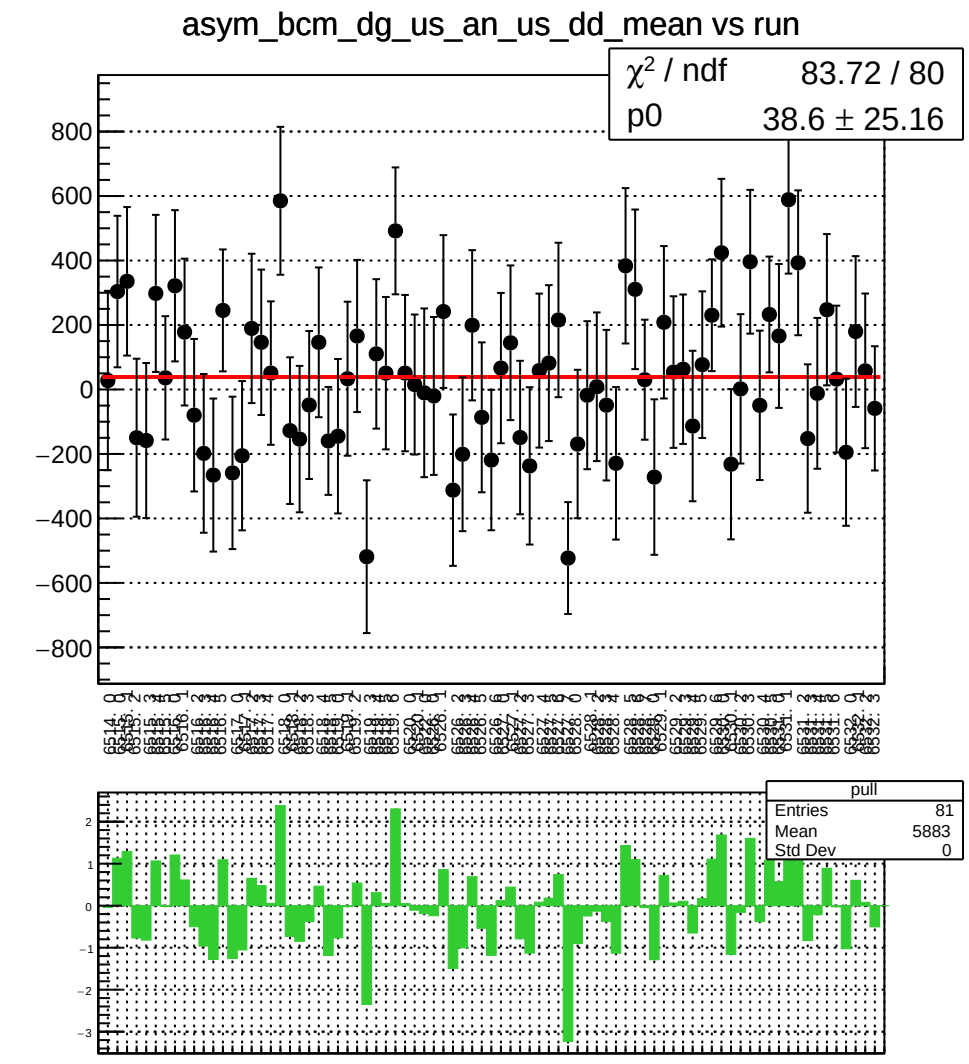

pull1D
Entries 81
Mean −0.01929
Std Dev 0.8421
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

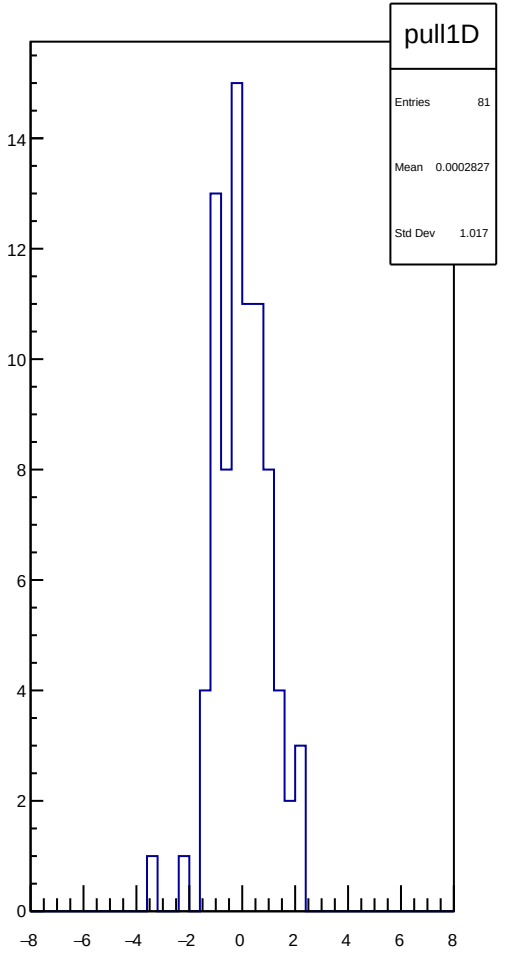

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 3666 / 80
p0 30.71 ± 0.02461
36
34
32
30
28
26

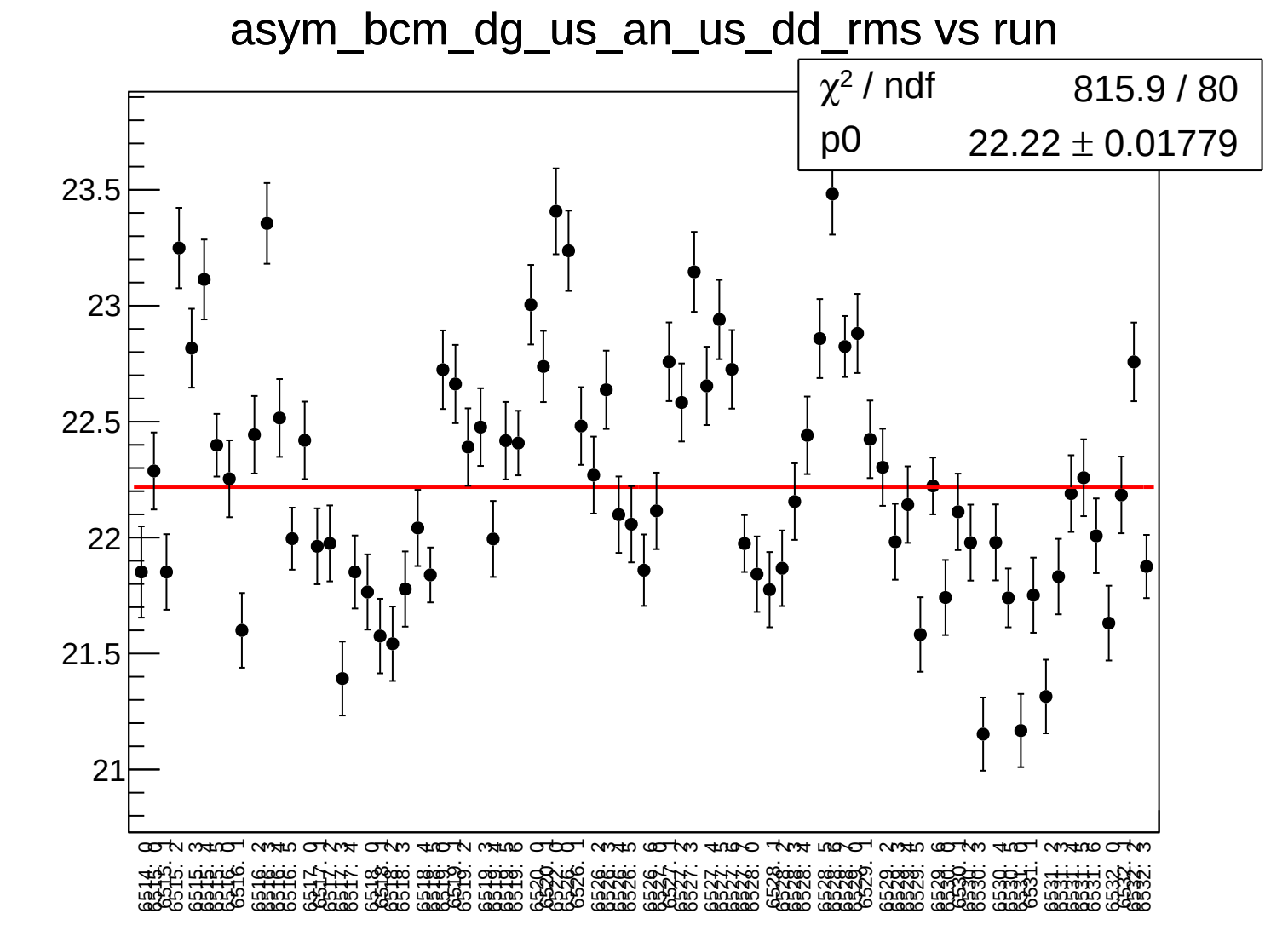

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 21.19 / 80
p0 343.1 ± 243.9
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 81
Mean −123
Std Dev 0
1.5
1
0.5
0
−0.5
−1

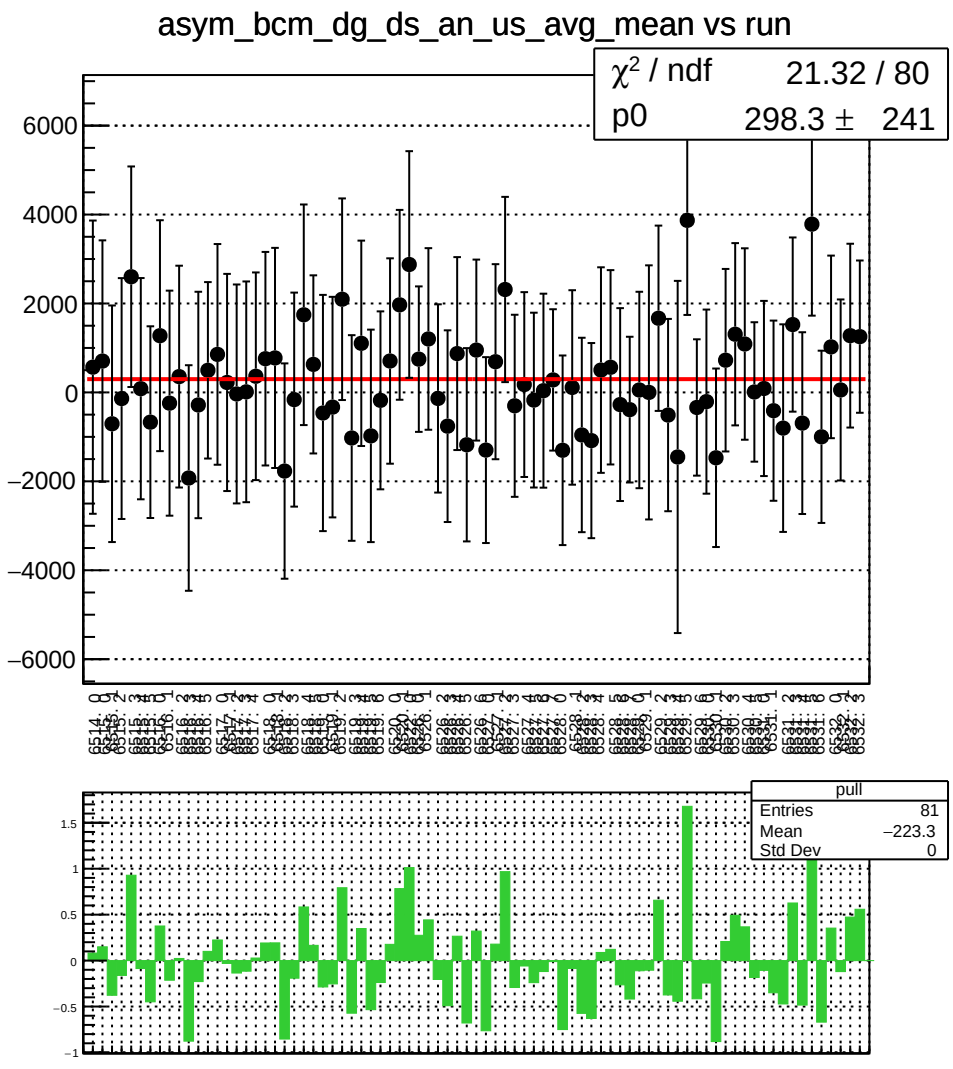

pull1D
Entries 81
Mean −0.004135
Std Dev 0.5114
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

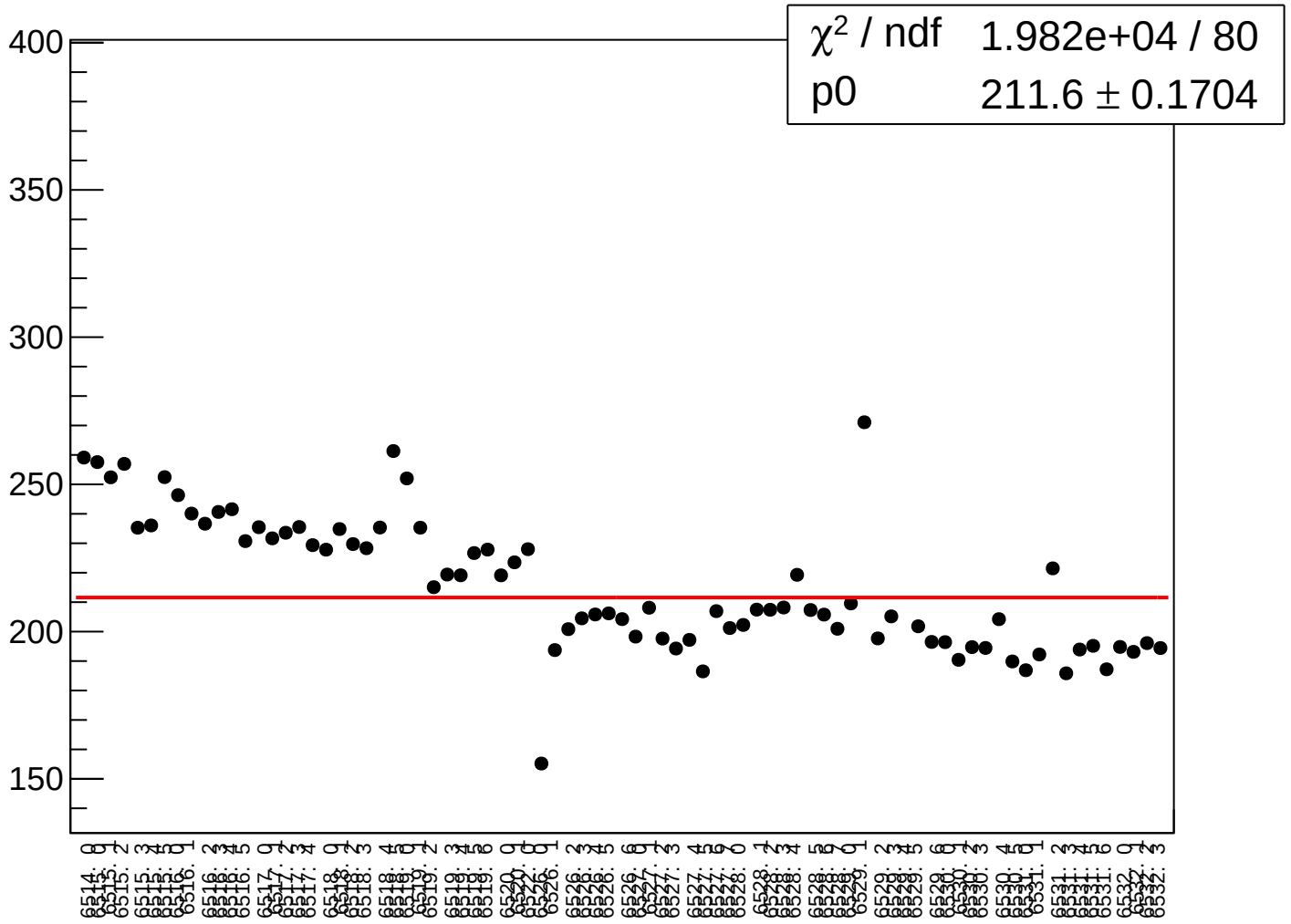

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 1.936e+04 / 80
p0 214.1 ± 0.1725
400
350
300
250
200
150

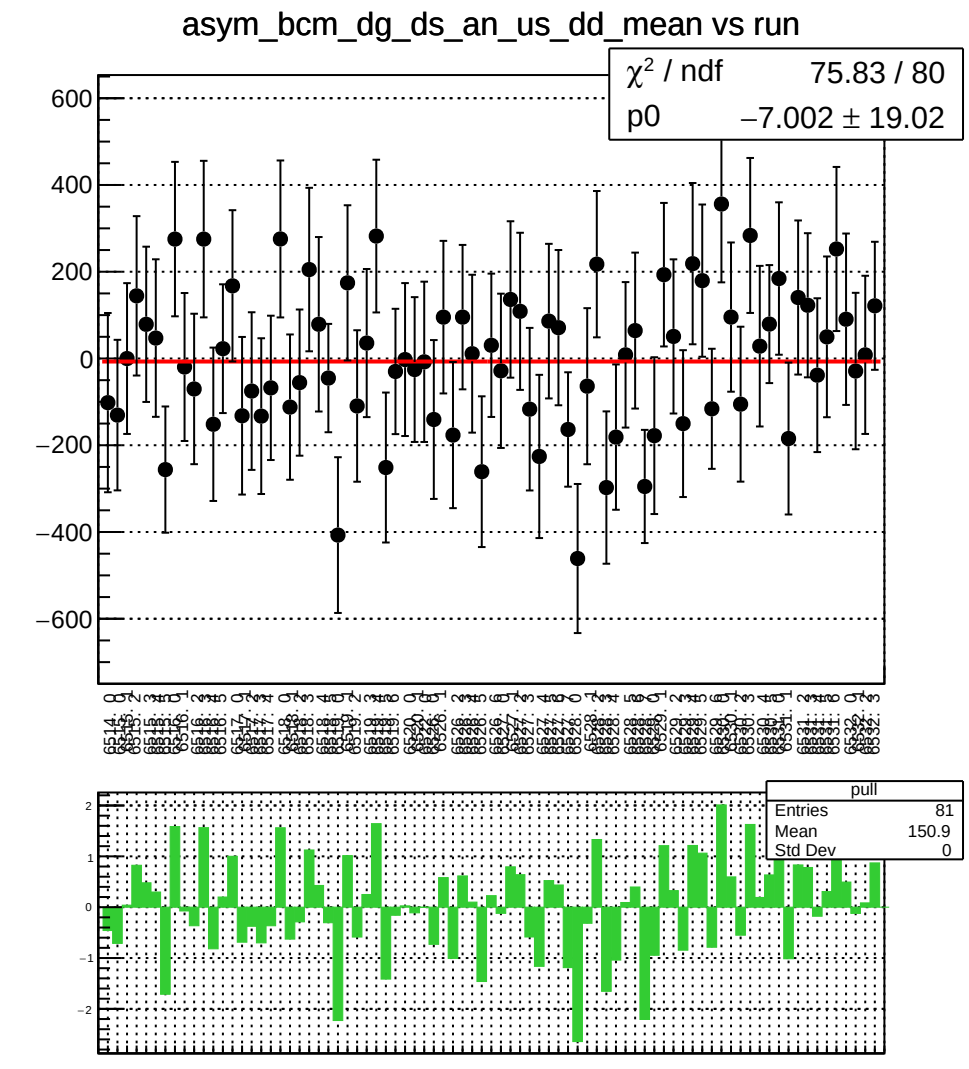

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 83.72 / 80
p0 38.6 ± 25.16
pull
Entries 81
Mean 5883
Std Dev 0

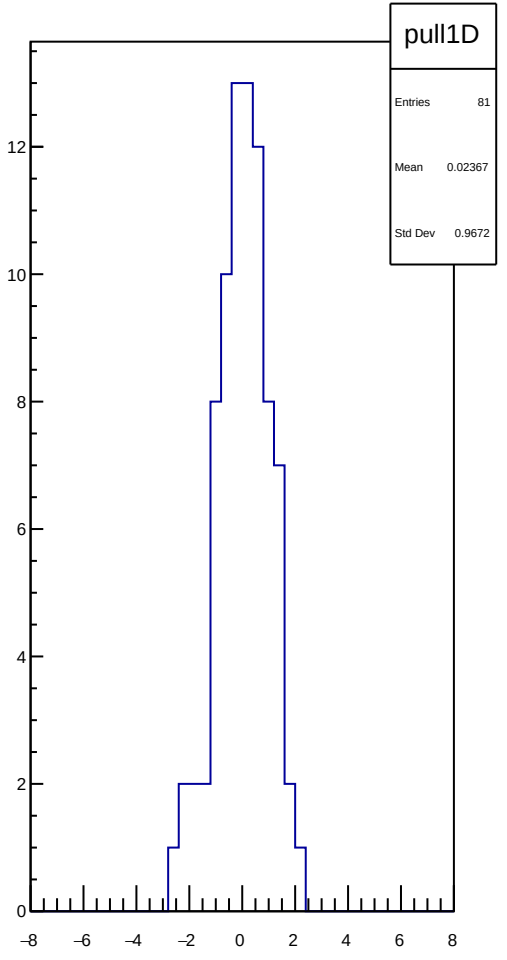

pull1D
Entries 81
Mean 0.0002827
Std Dev 1.017

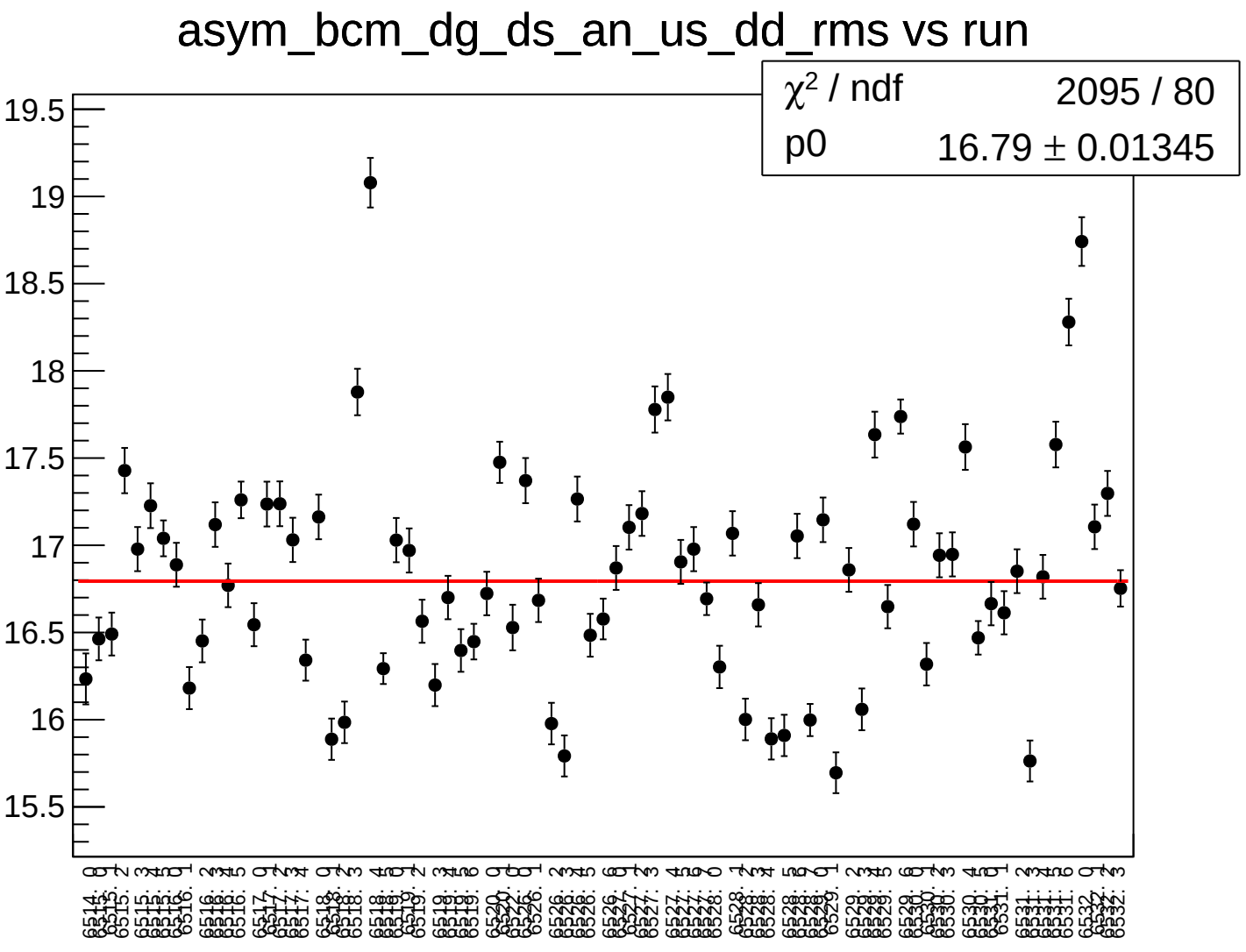

asym_bcm_dg_us_an_us_dd_rms vs run
χ² / ndf 815.9 / 80
p0 22.22 ± 0.01779
23.5
23
22.5
22
21.5
21

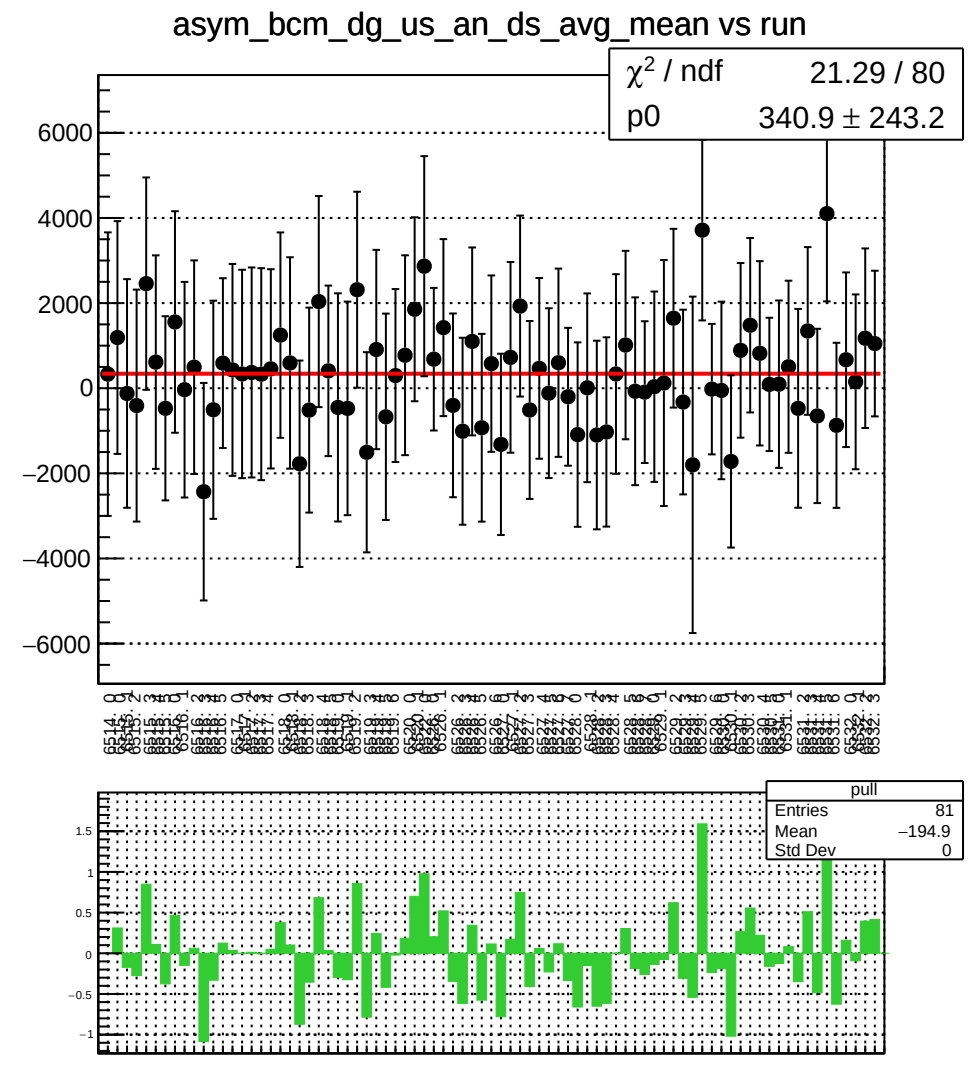

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 21.32 / 80
p0 298.3 ± 241
pull
Entries 81
Mean −223.3
Std Dev 0
pull1D
Entries 81
Mean −0.002609
Std Dev 0.5131

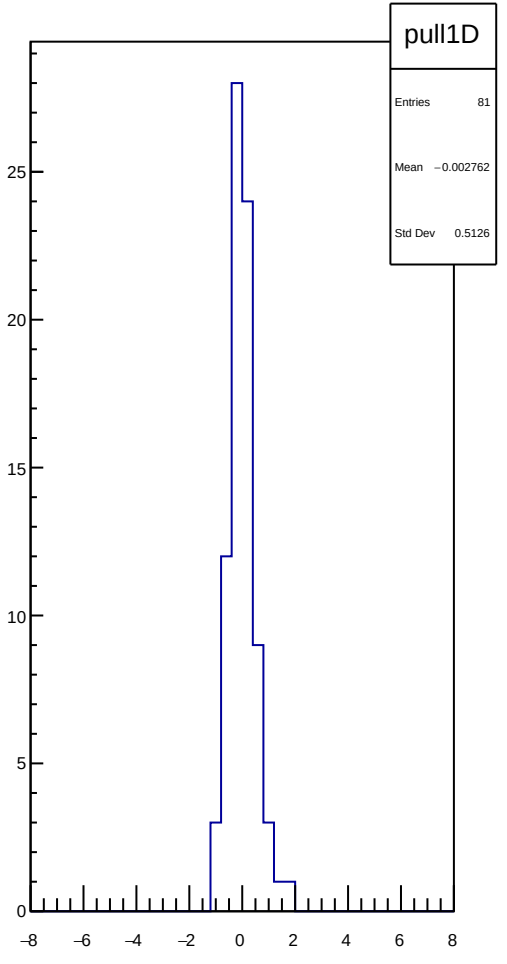

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 1.982e+04 / 80
p0 211.6 ± 0.1704
400
350
300
250
200
150

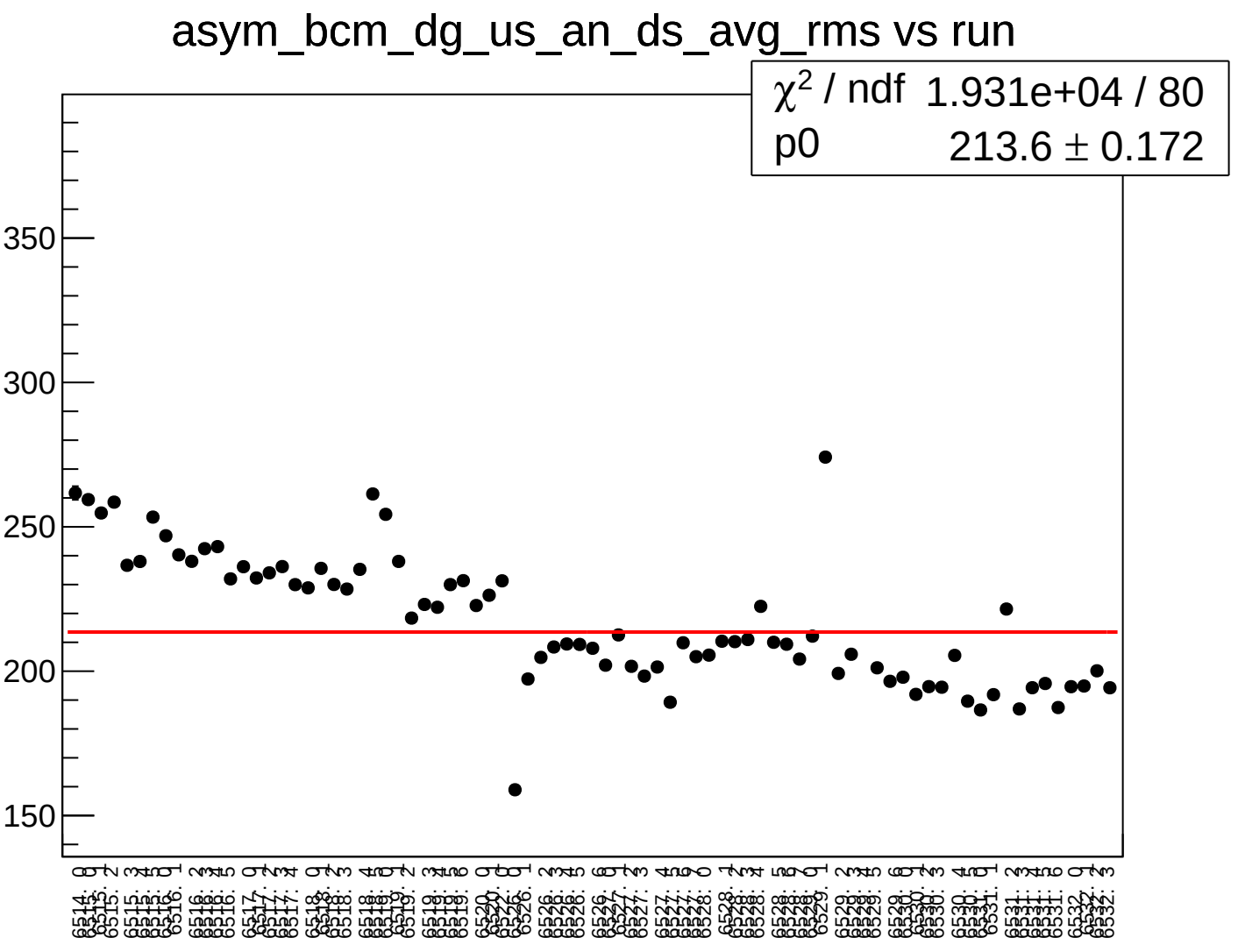

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 75.83 / 80
p0 −7.002 ± 19.02
600
400
200
0
−200
−400
−600
pull
Entries 81
Mean 150.9
Std Dev 0
2
1
0
−1
−2

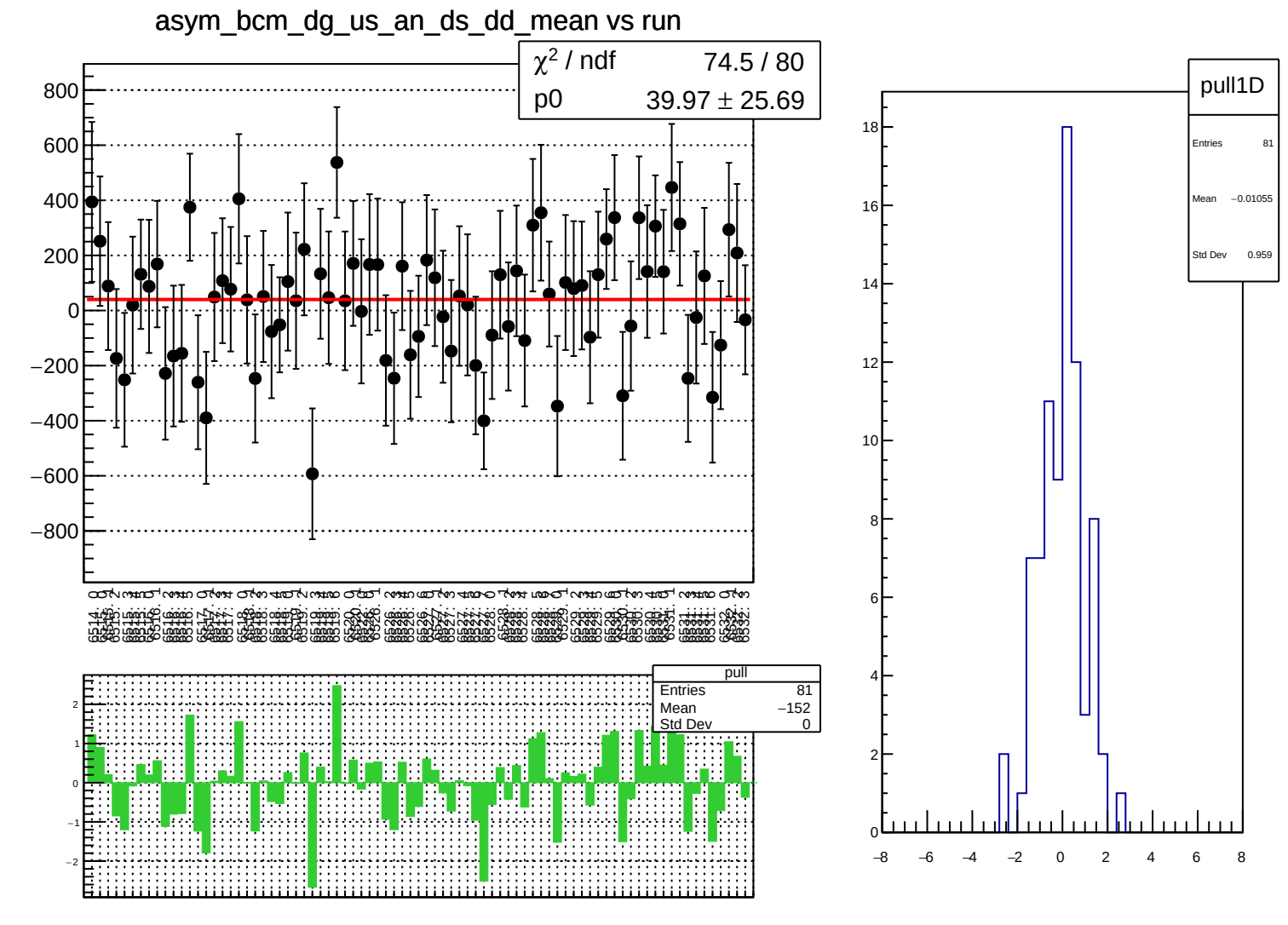

pull1D
Entries 81
Mean 0.02367
Std Dev 0.9672
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

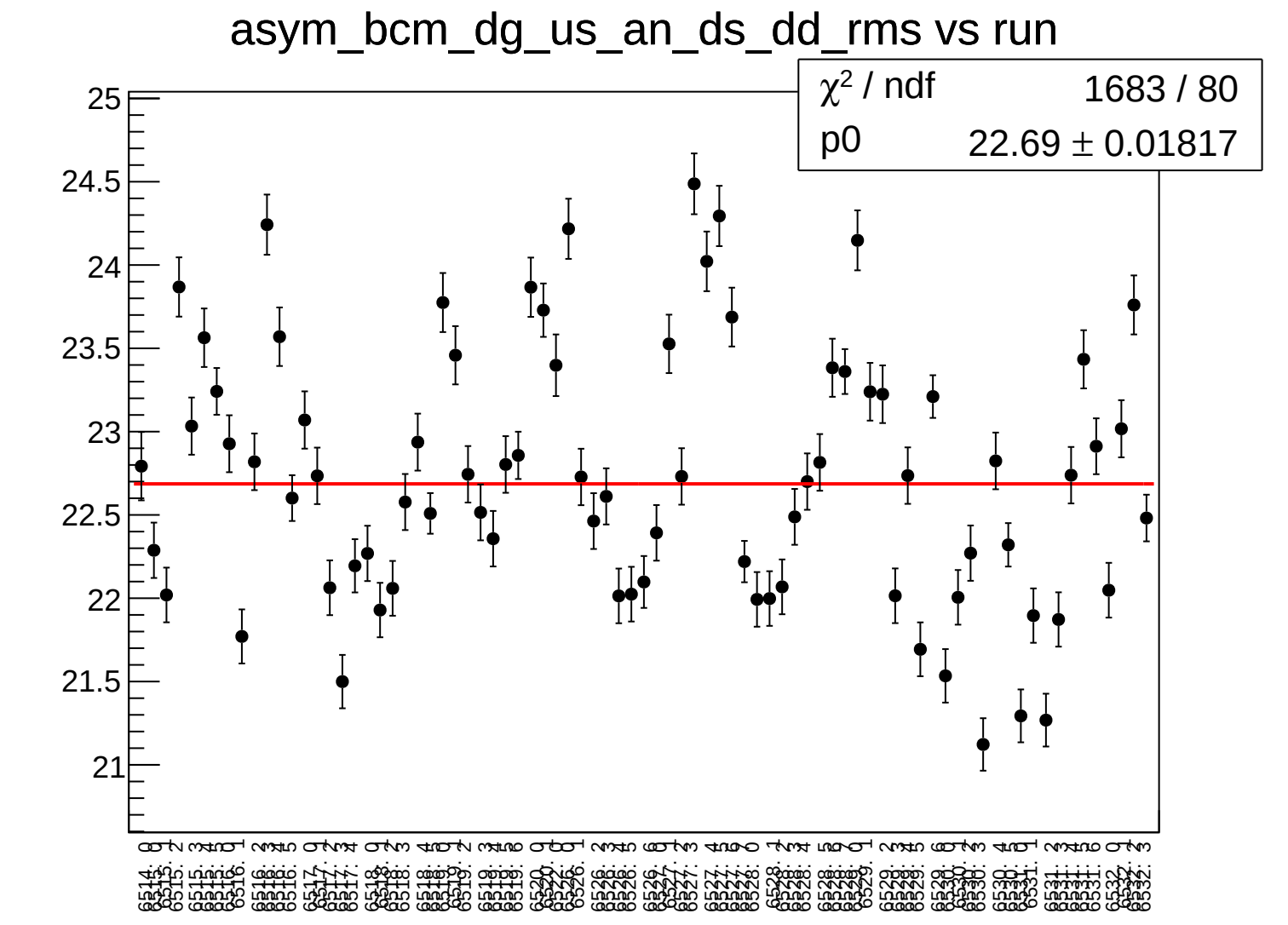

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 2095 / 80
p0 16.79 ± 0.01345
19.5
19
18.5
18
17.5
17
16.5
16
15.5

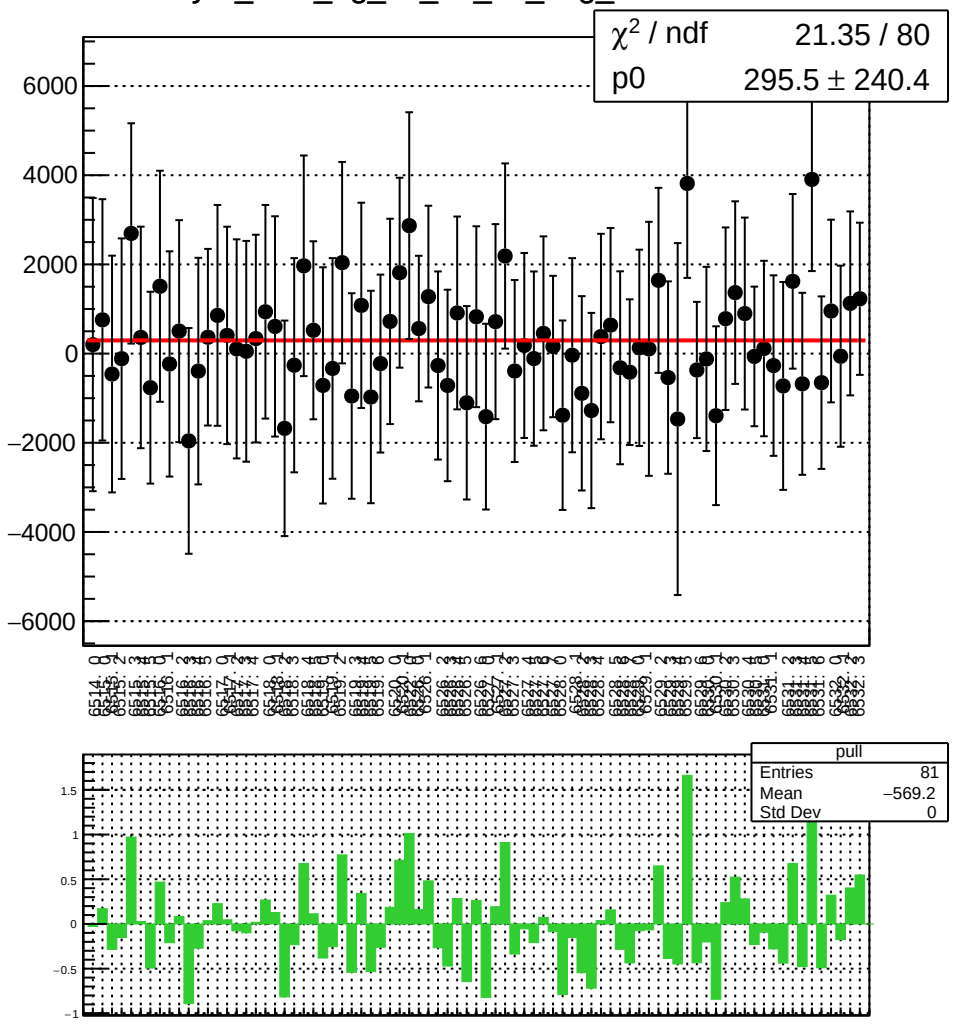

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 21.29 / 80
p0 340.9 ± 243.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 81
Mean −194.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1

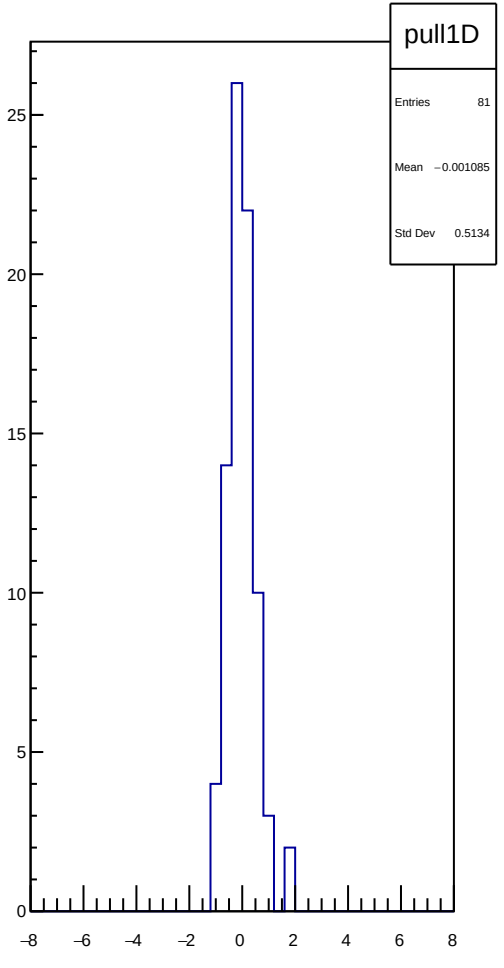

pull1D
Entries 81
Mean −0.002762
Std Dev 0.5126
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

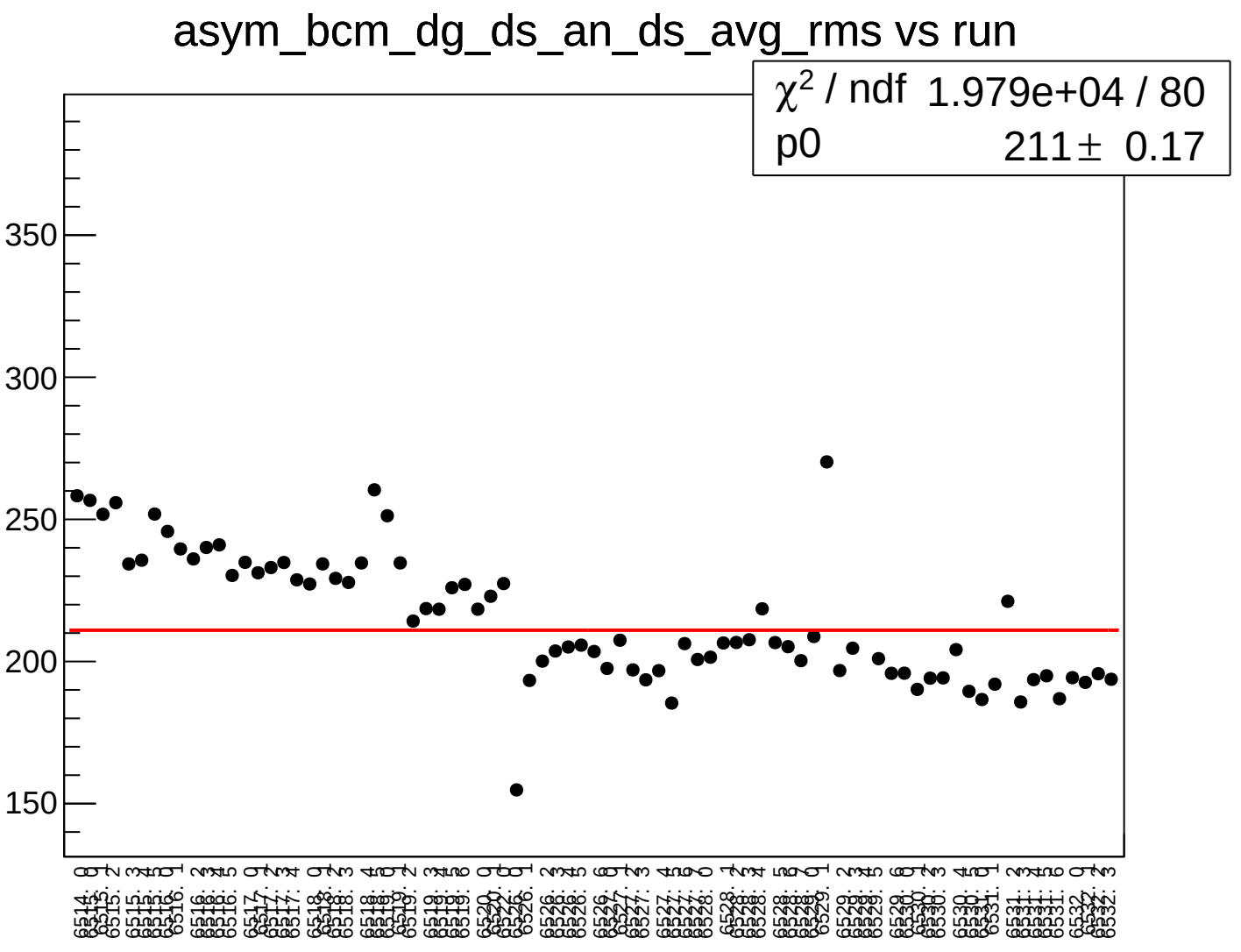

asym_bcm_dg_us_an_ds_avg_rms vs run
χ^2 / ndf 1.931e+04 / 80
p0 213.6 ± 0.172
350
300
250
200
150

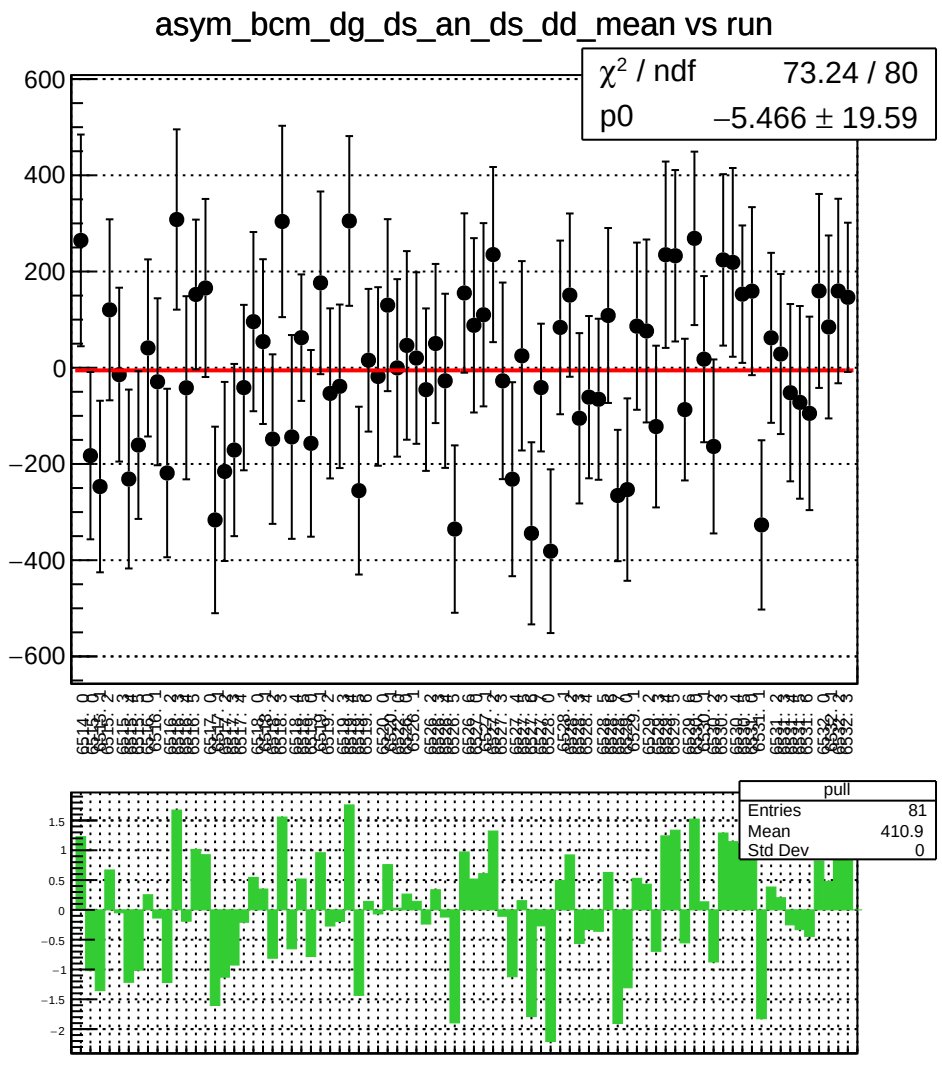

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 74.5 / 80
p0 39.97 ± 25.69
pull
Entries 81
Mean −152
Std Dev 0
pull1D
Entries 81
Mean −0.01055
Std Dev 0.959

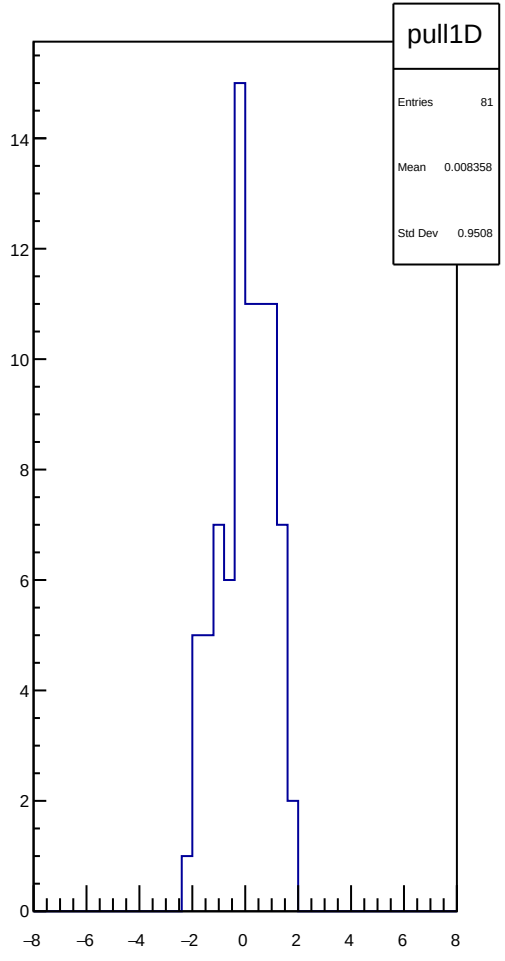

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 1683 / 80
p0 22.69 ± 0.01817
25
24.5
24
23.5
23
22.5
22
21.5
21

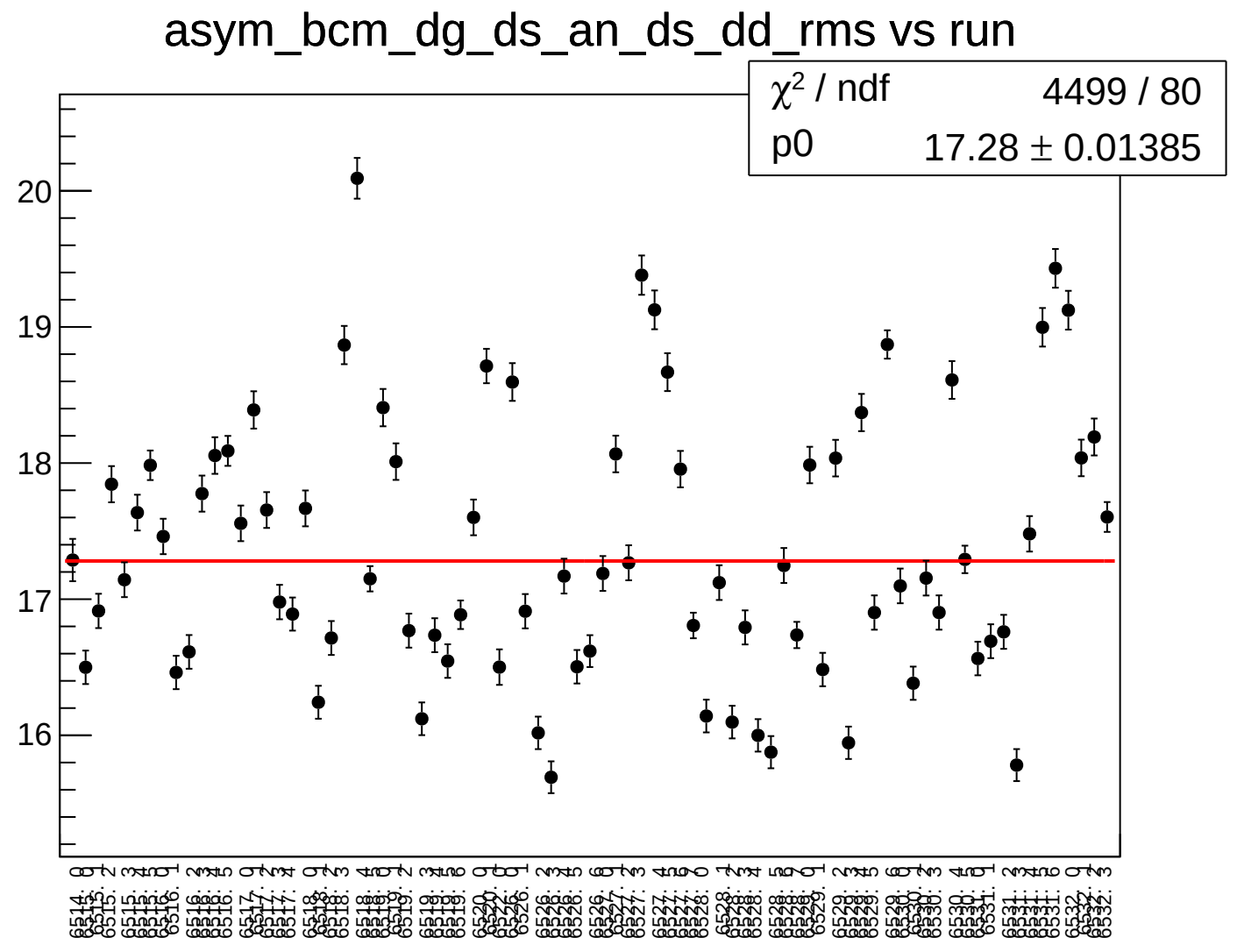

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 21.35 / 80
p0 295.5 ± 240.4
pull
Entries 81
Mean −569.2
Std Dev 0

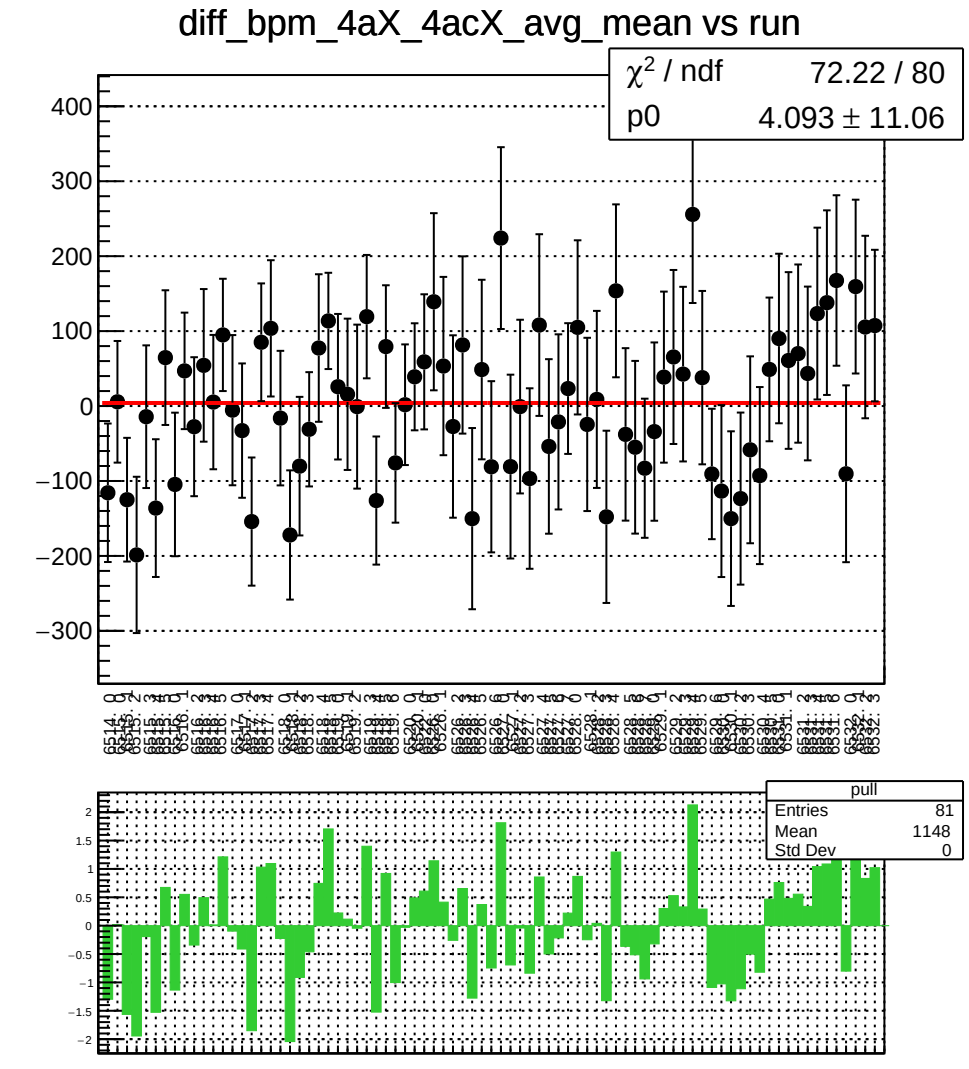

pull1D
Entries 81
Mean −0.001085
Std Dev 0.5134

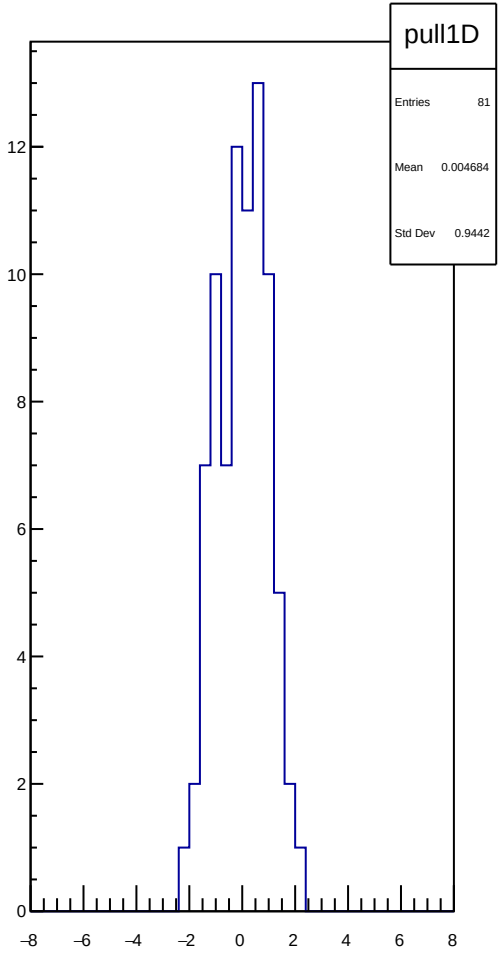

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 1.979e+04 / 80
p0 211 ± 0.17
350
300
250
200
150

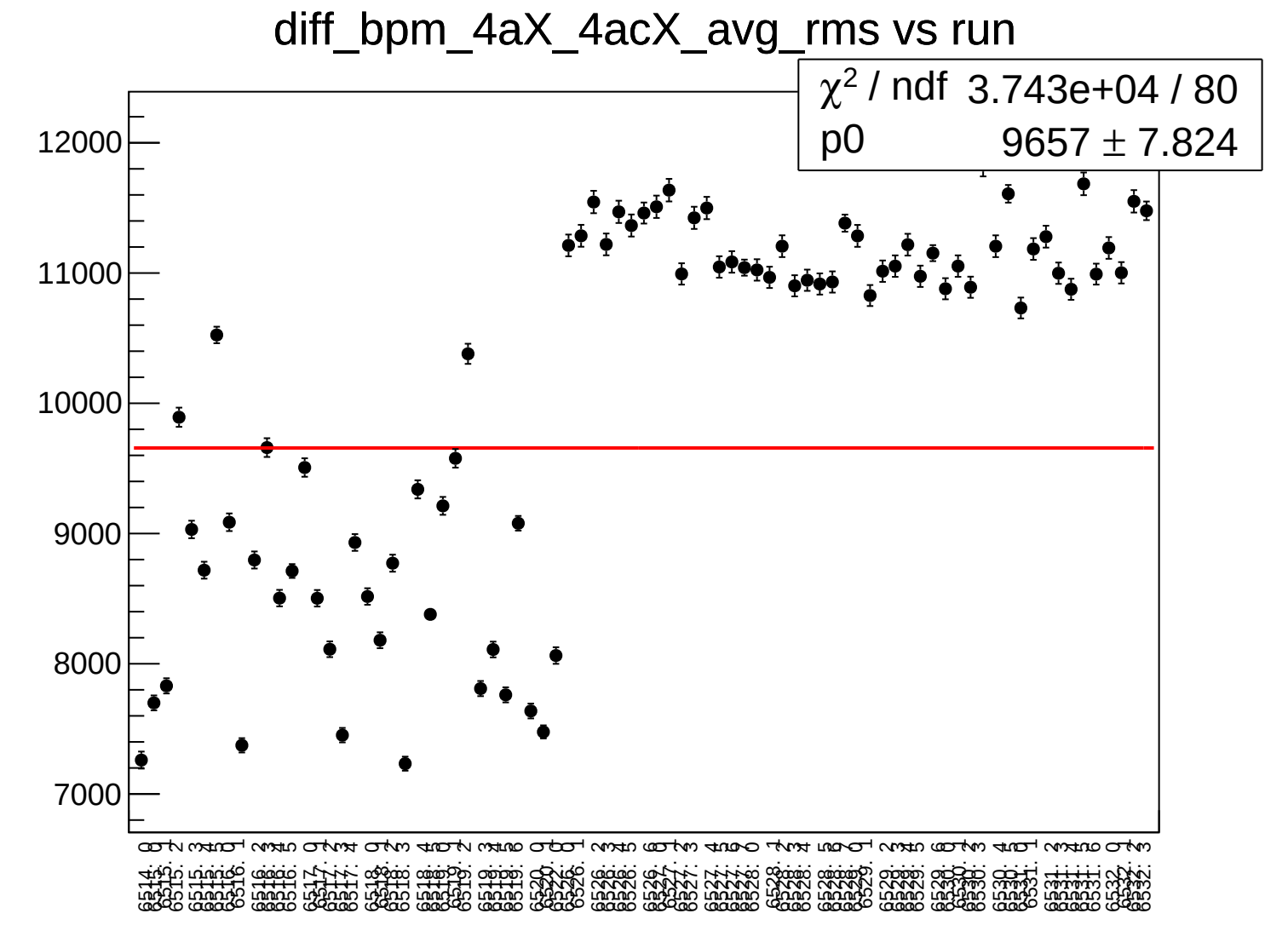

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 73.24 / 80
p0 −5.466 ± 19.59
pull
Entries 81
Mean 410.9
Std Dev 0

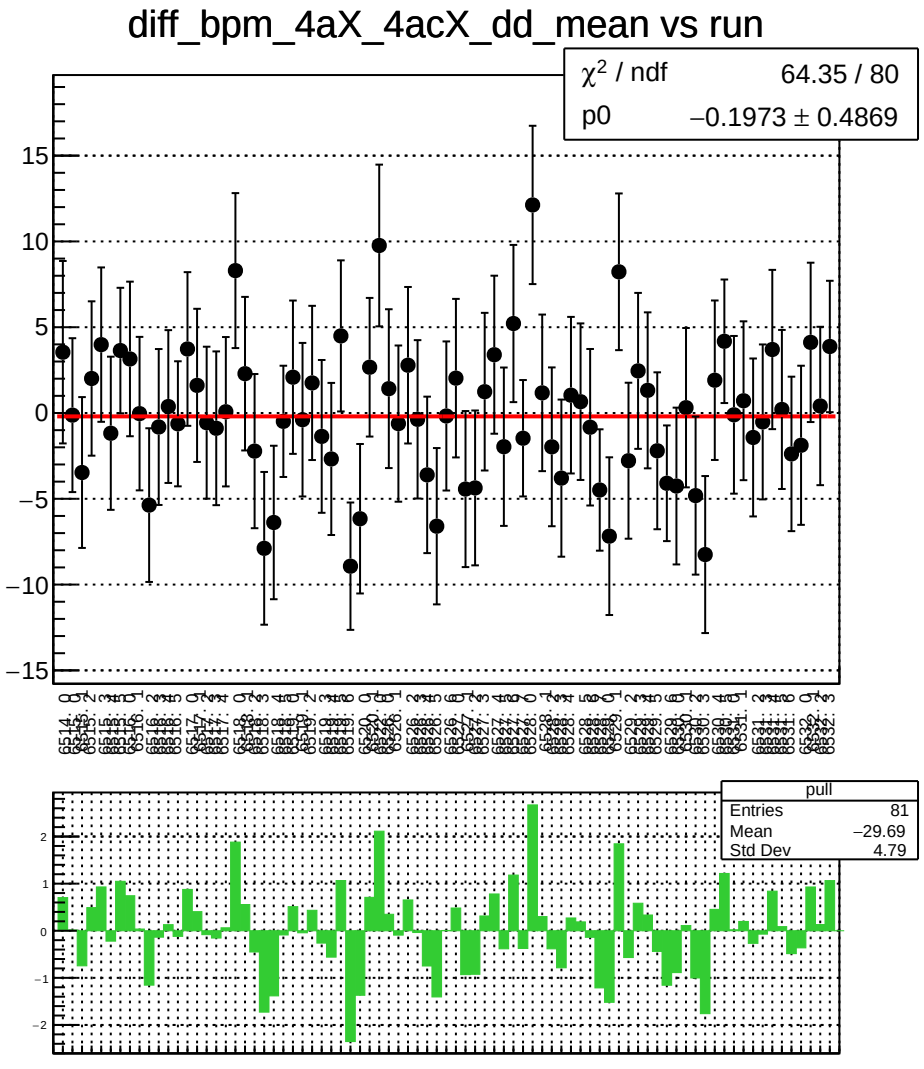

pull1D
Entries 81
Mean 0.008358
Std Dev 0.9508

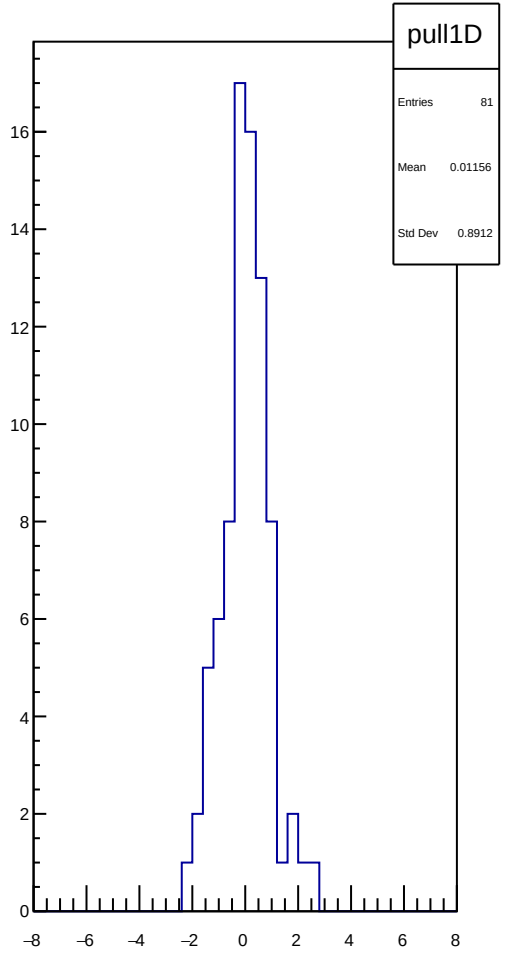

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 4499 / 80
p0 17.28 ± 0.01385
20
19
18
17
16

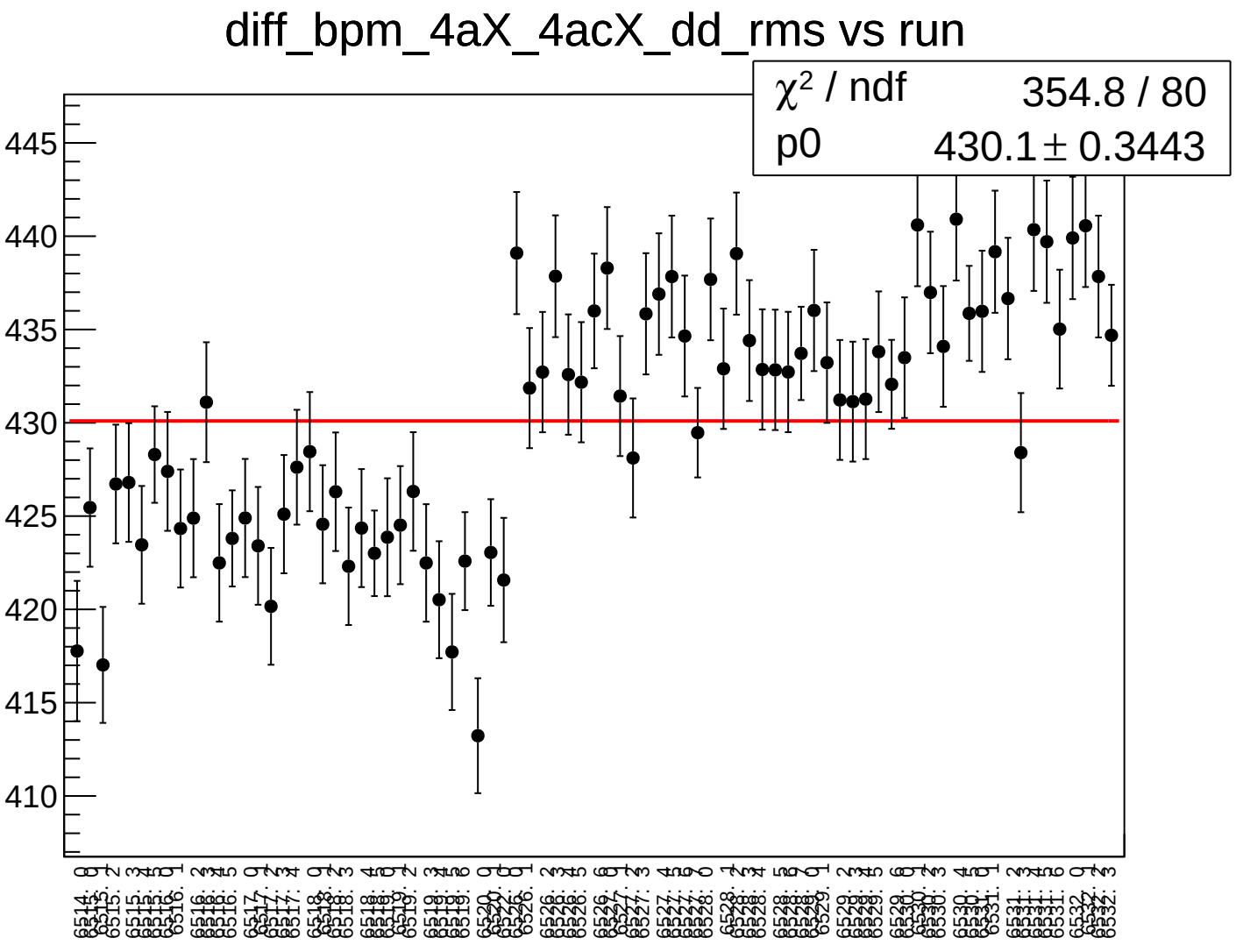

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 72.22 / 80
p0 4.093 ± 11.06
pull
Entries 81
Mean 1148
Std Dev 0

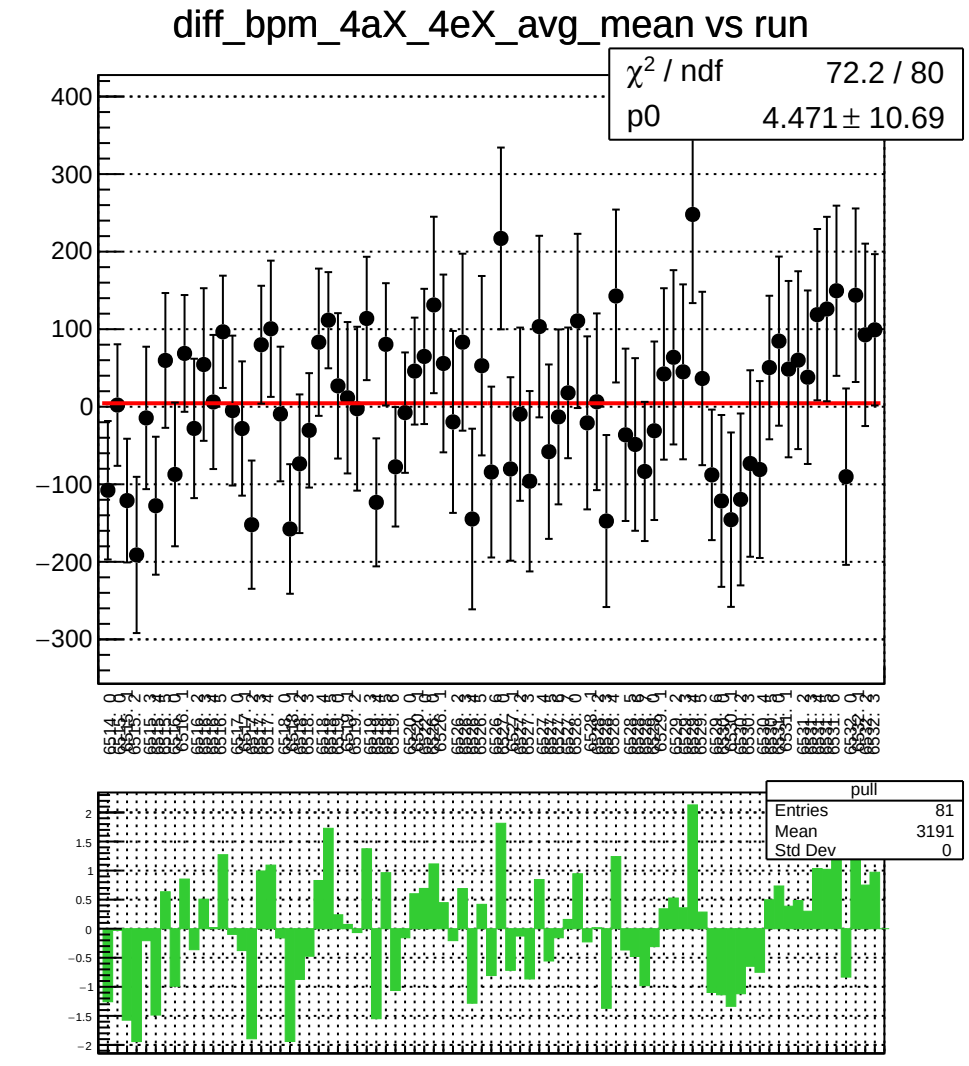

pull1D
Entries 81
Mean 0.004684
Std Dev 0.9442

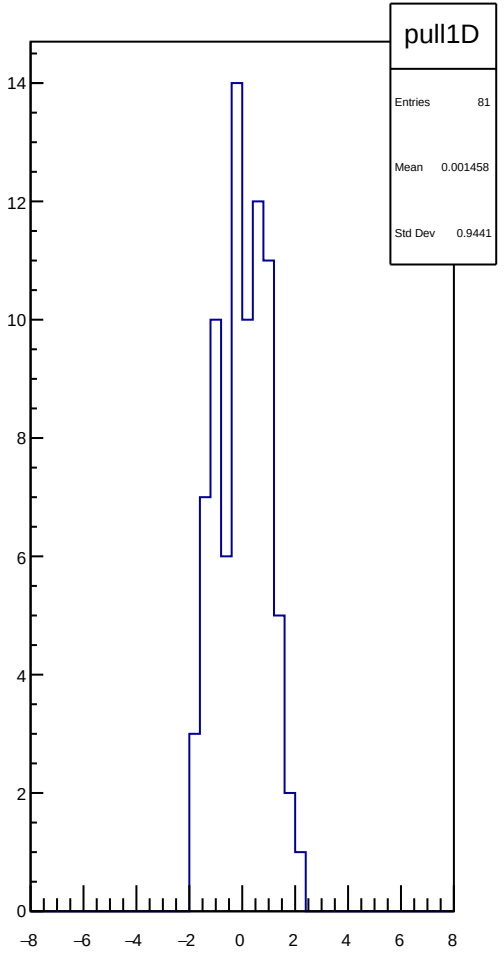

diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 3.743e+04 / 80
p0 9657 ± 7.824
12000
11000
10000
9000
8000
7000

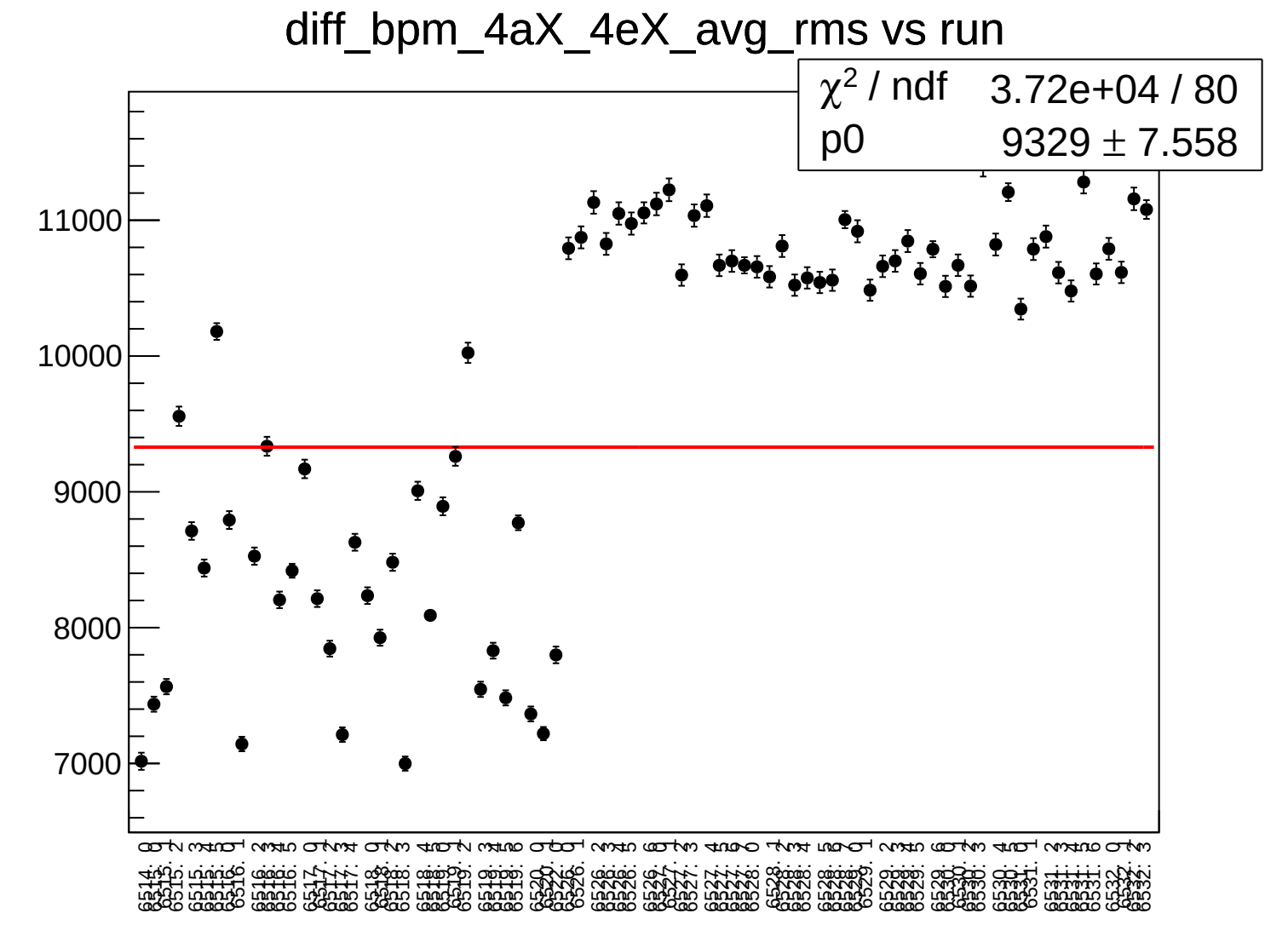

diff_bpm_4aX_4acX_dd_mean vs run
χ^2 / ndf 64.35 / 80
p0 −0.1973 ± 0.4869
pull
Entries 81
Mean −29.69
Std Dev 4.79

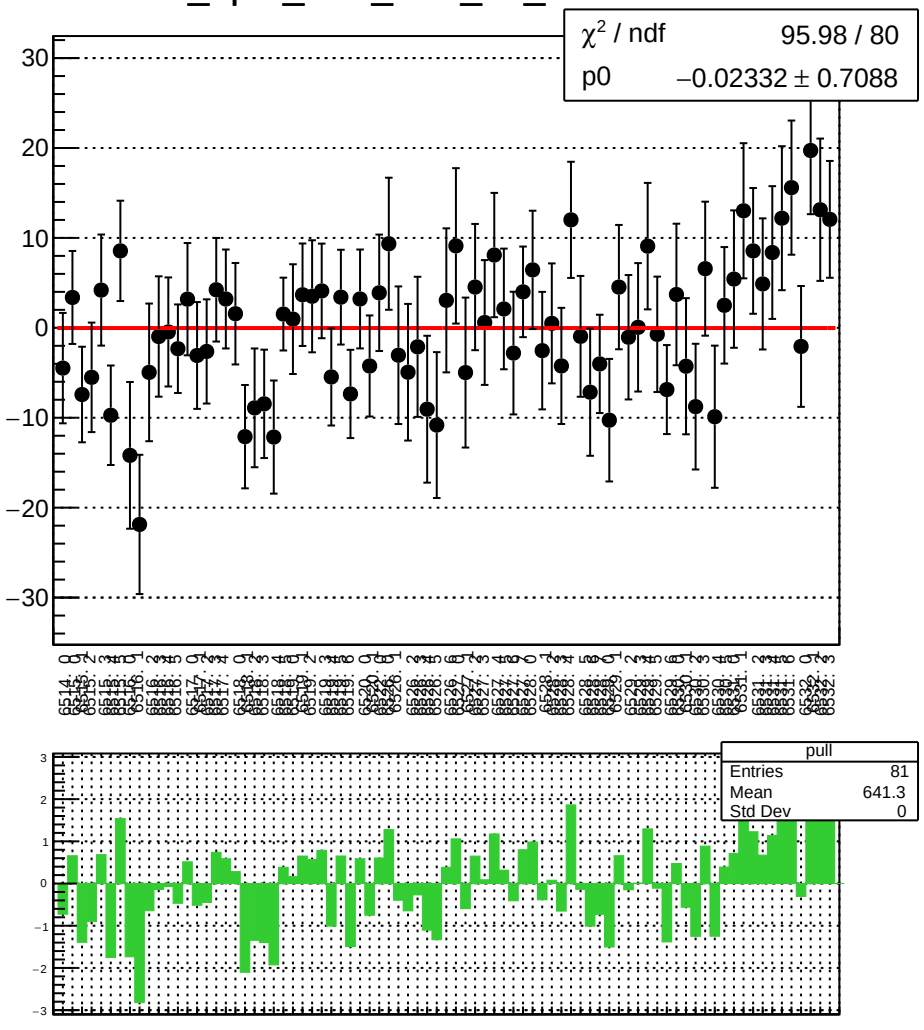

pull1D
Entries 81
Mean 0.01156
Std Dev 0.8912

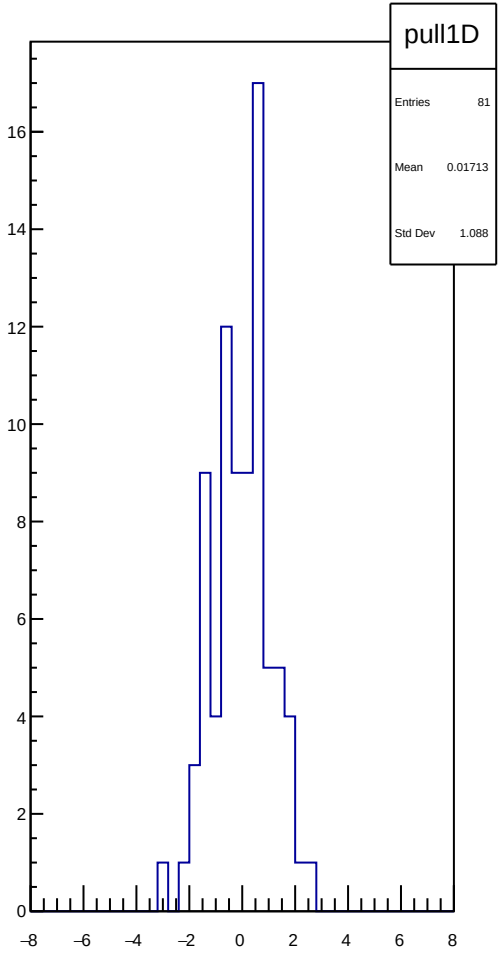

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 354.8 / 80
p0 430.1 ± 0.3443
445
440
435
430
425
420
415
410

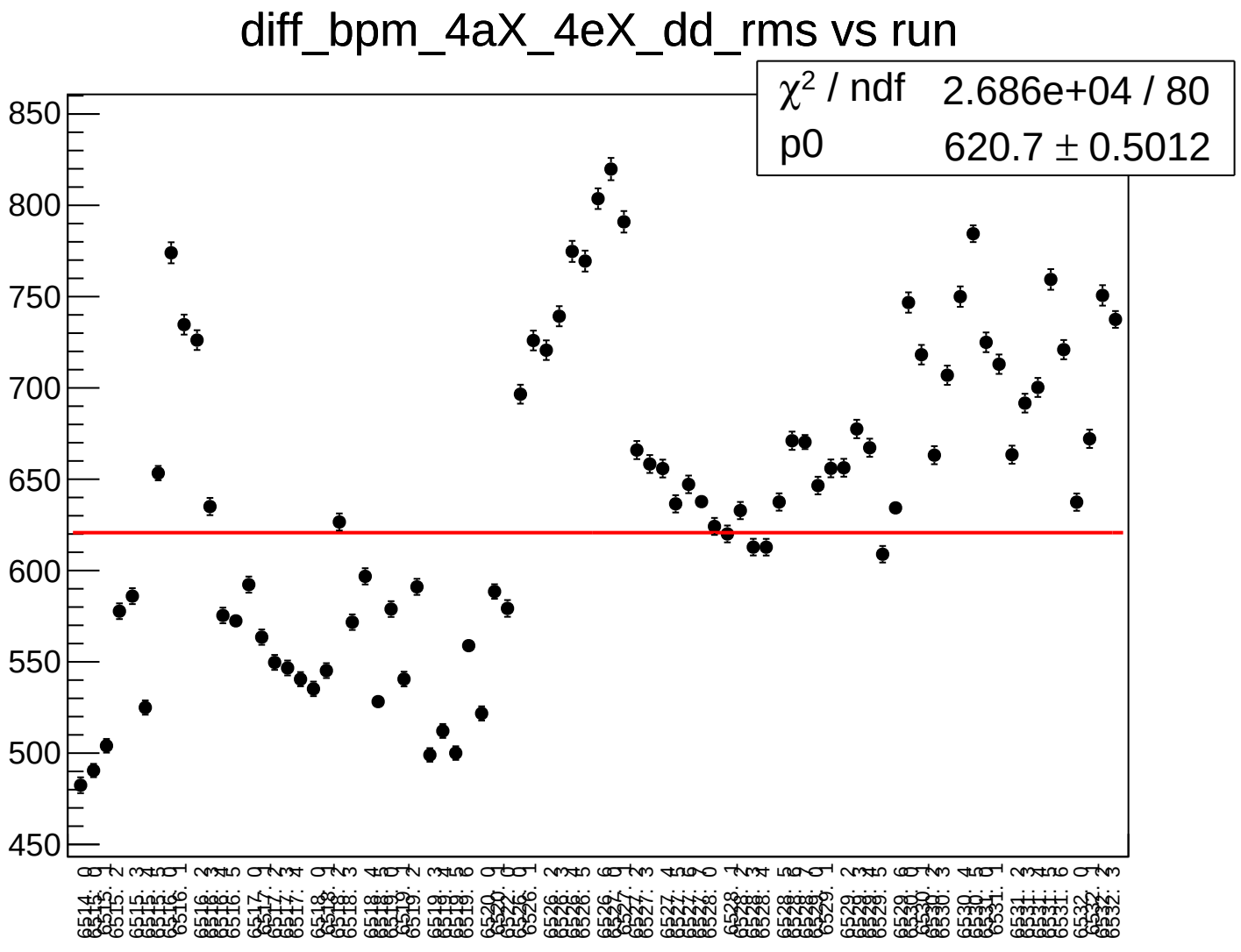

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 72.2 / 80
p0 4.471 ± 10.69
pull
Entries 81
Mean 3191
Std Dev 0

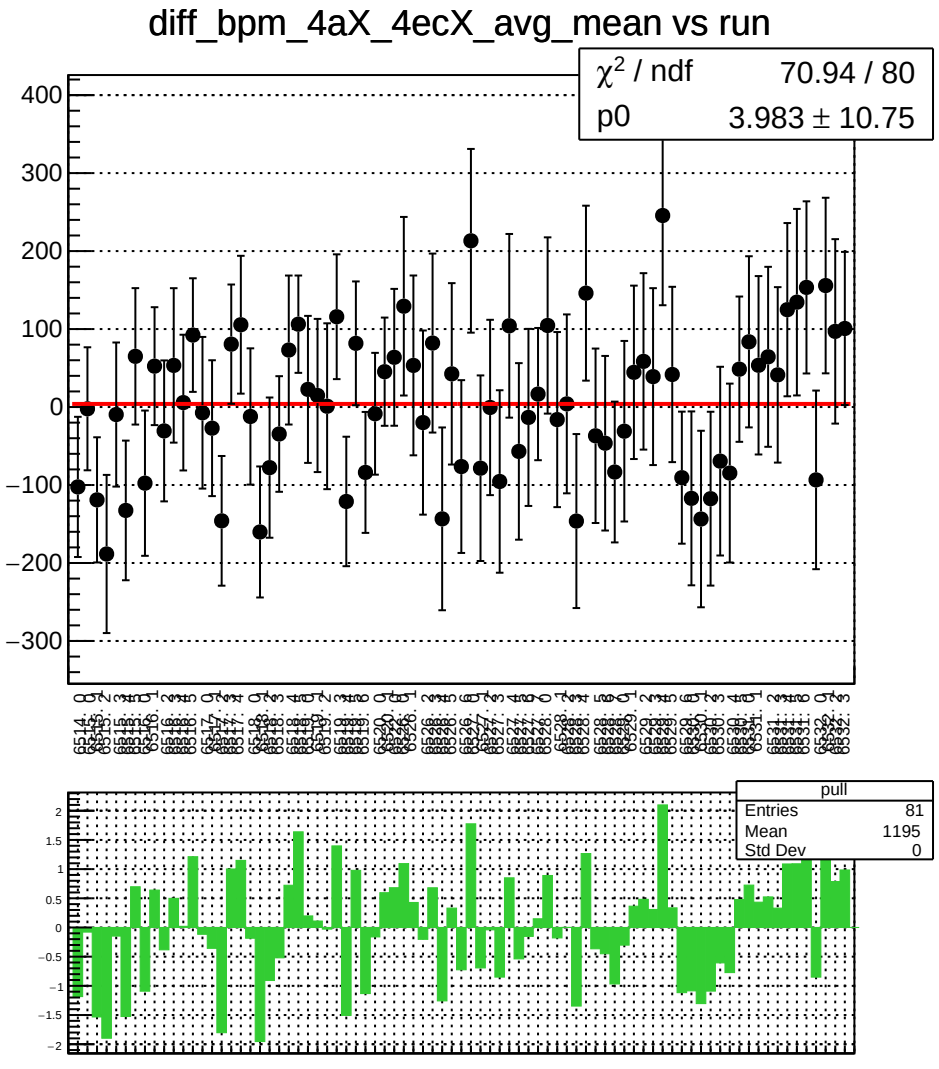

pull1D
Entries 81
Mean 0.001458
Std Dev 0.9441

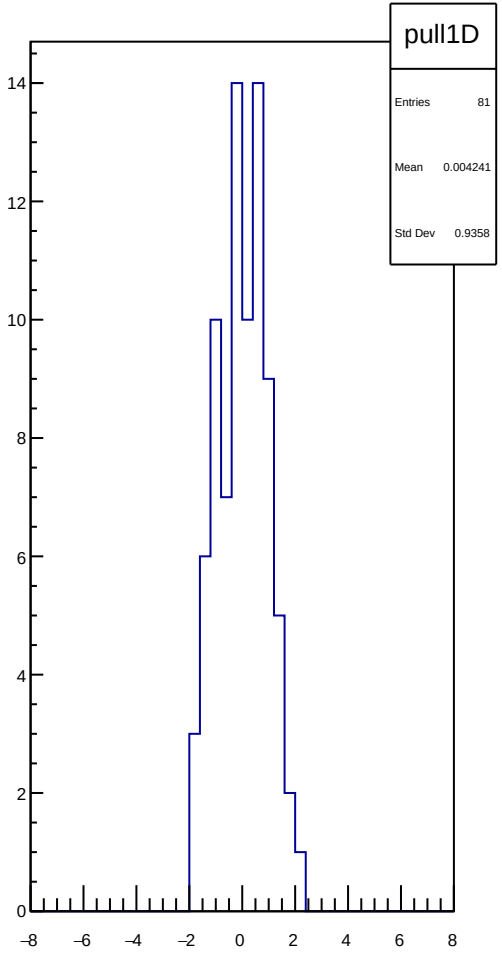

diff_bpm_4aX_4eX_avg_rms vs run
χ² / ndf 3.72e+04 / 80
p0 9329 ± 7.558
11000
10000
9000
8000
7000

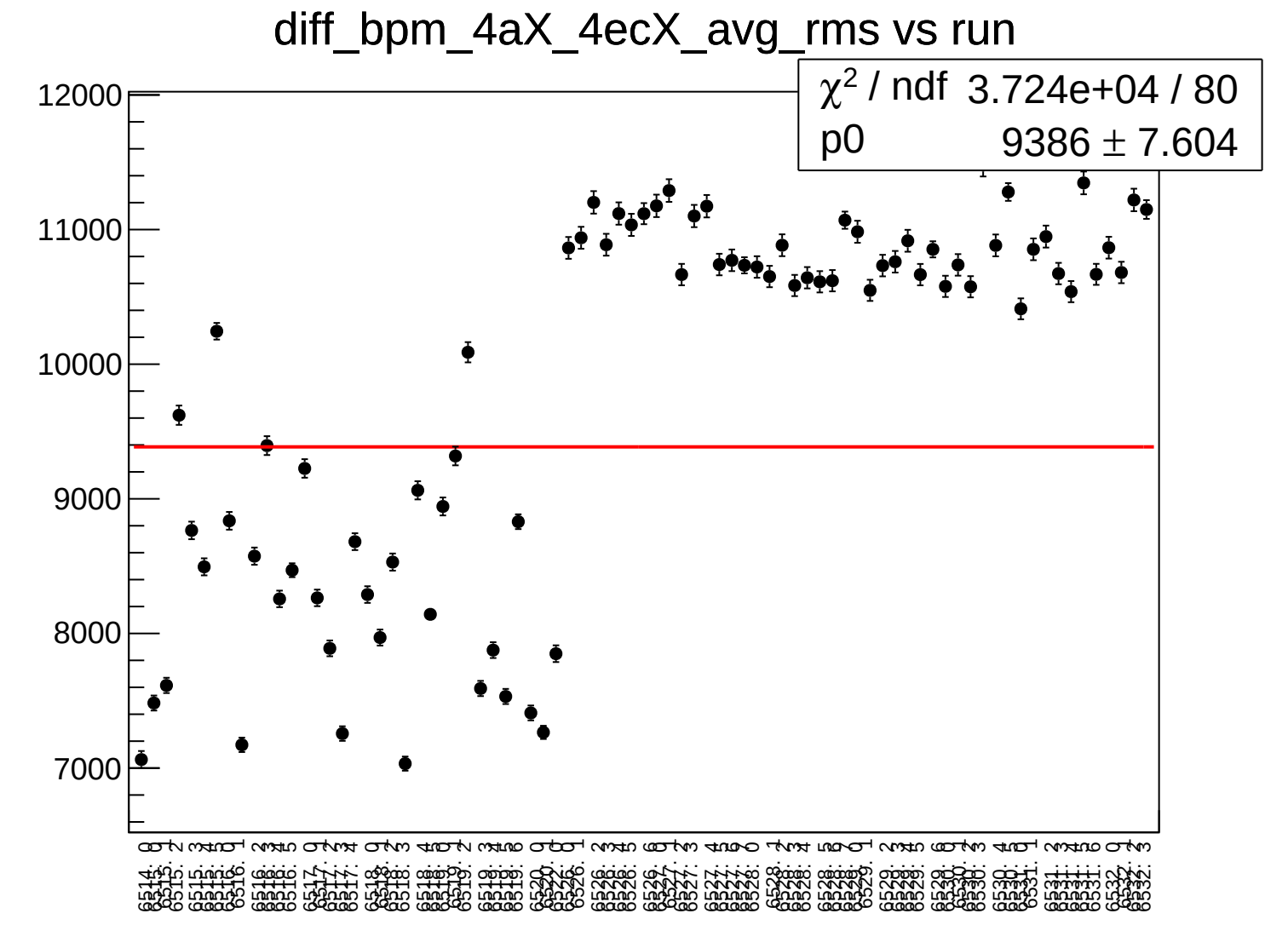

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 95.98 / 80
p0 −0.02332 ± 0.7088
pull
Entries 81
Mean 641.3
Std Dev 0

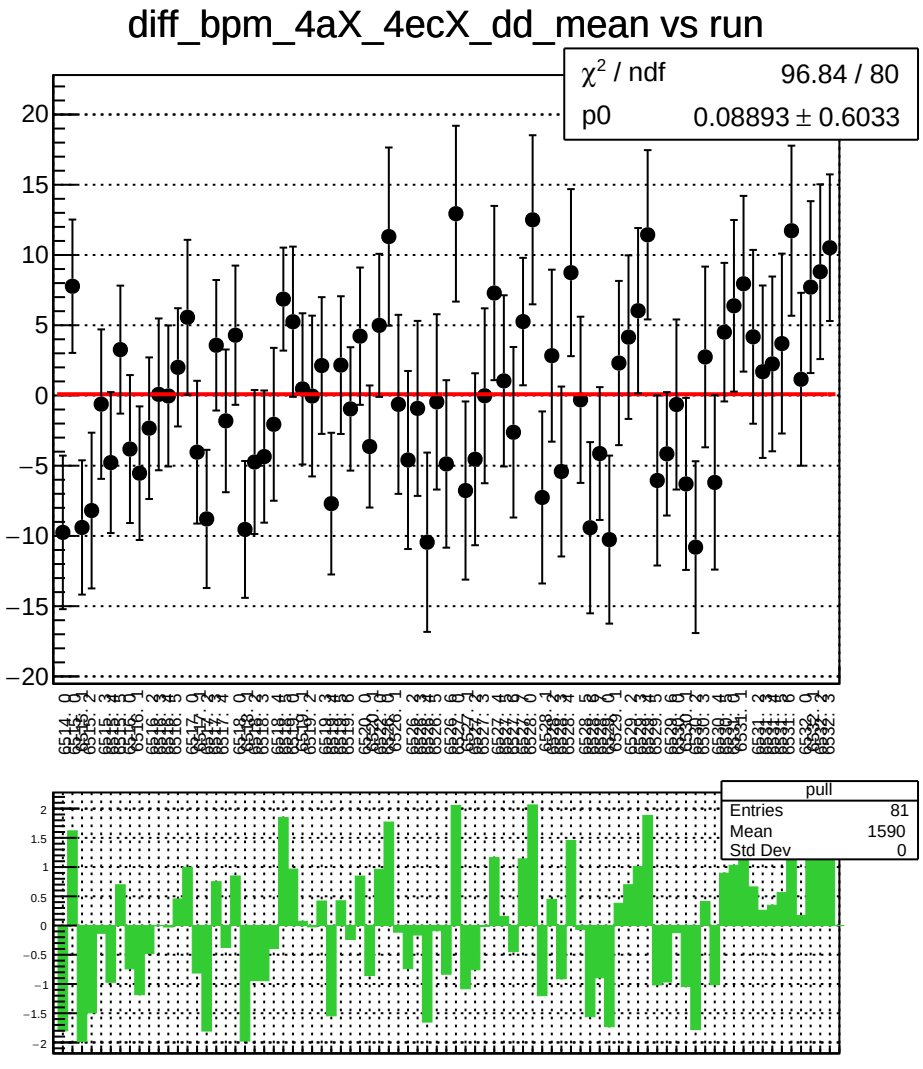

pull1D
Entries 81
Mean 0.01713
Std Dev 1.088

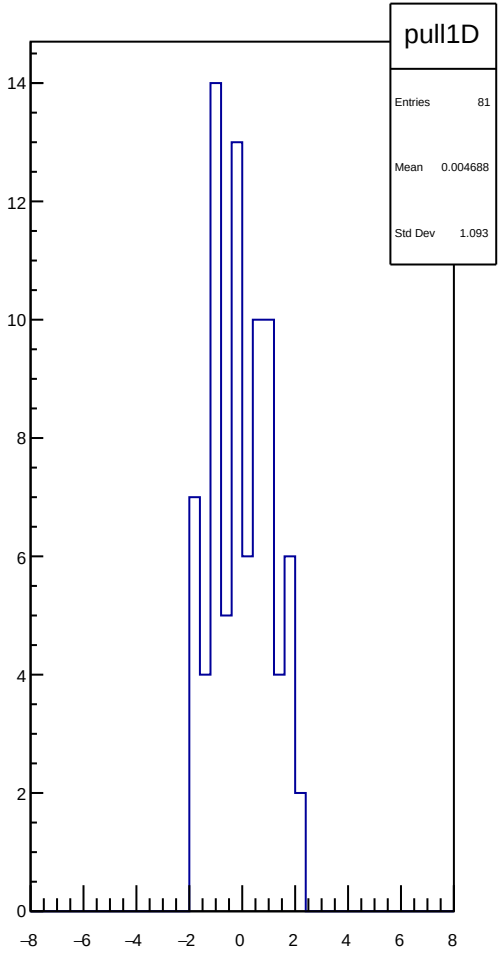

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 2.686e+04 / 80
p0 620.7 ± 0.5012
850
800
750
700
650
600
550
500
450

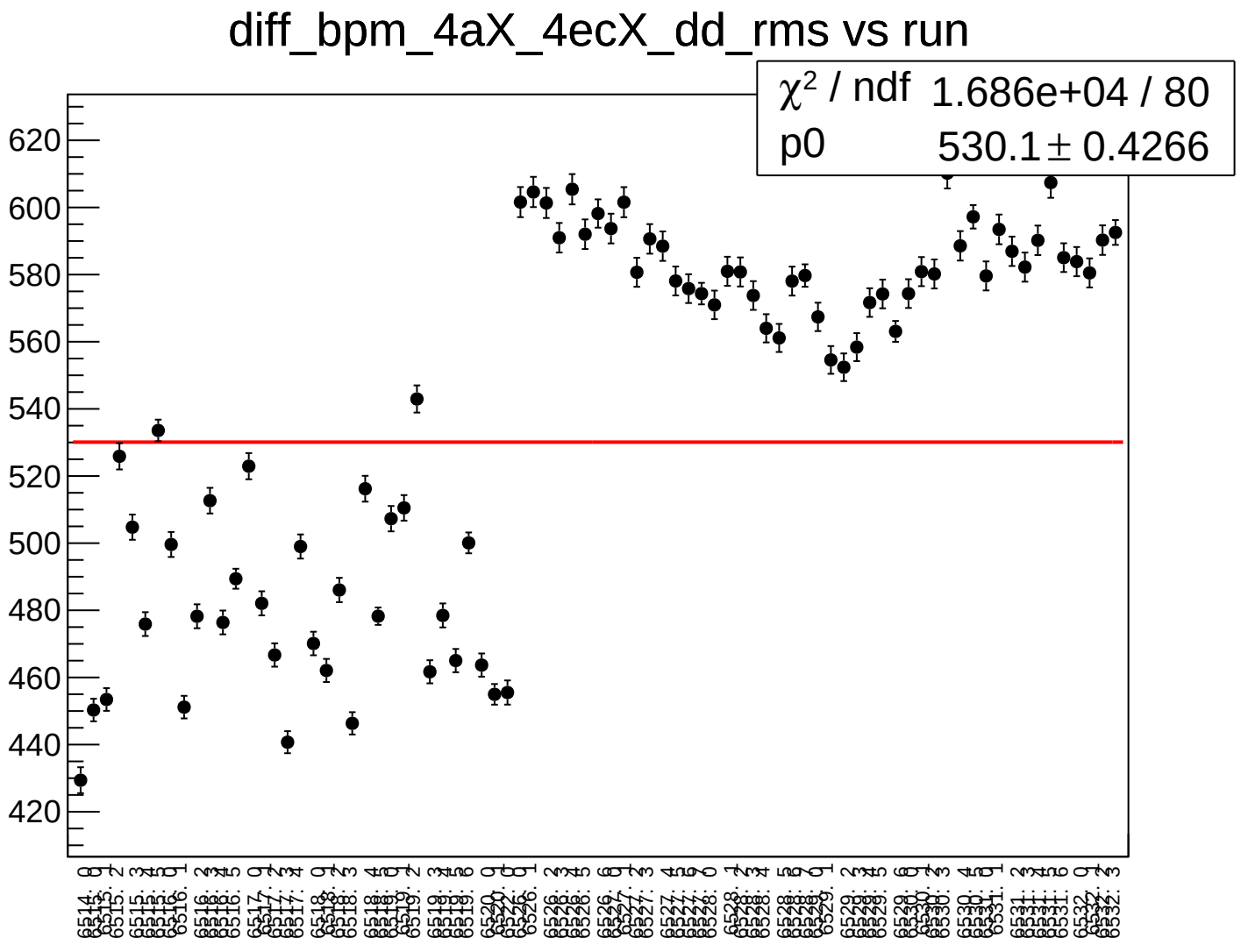

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 70.94 / 80
p0 3.983 ± 10.75
pull
Entries 81
Mean 1195
Std Dev 0

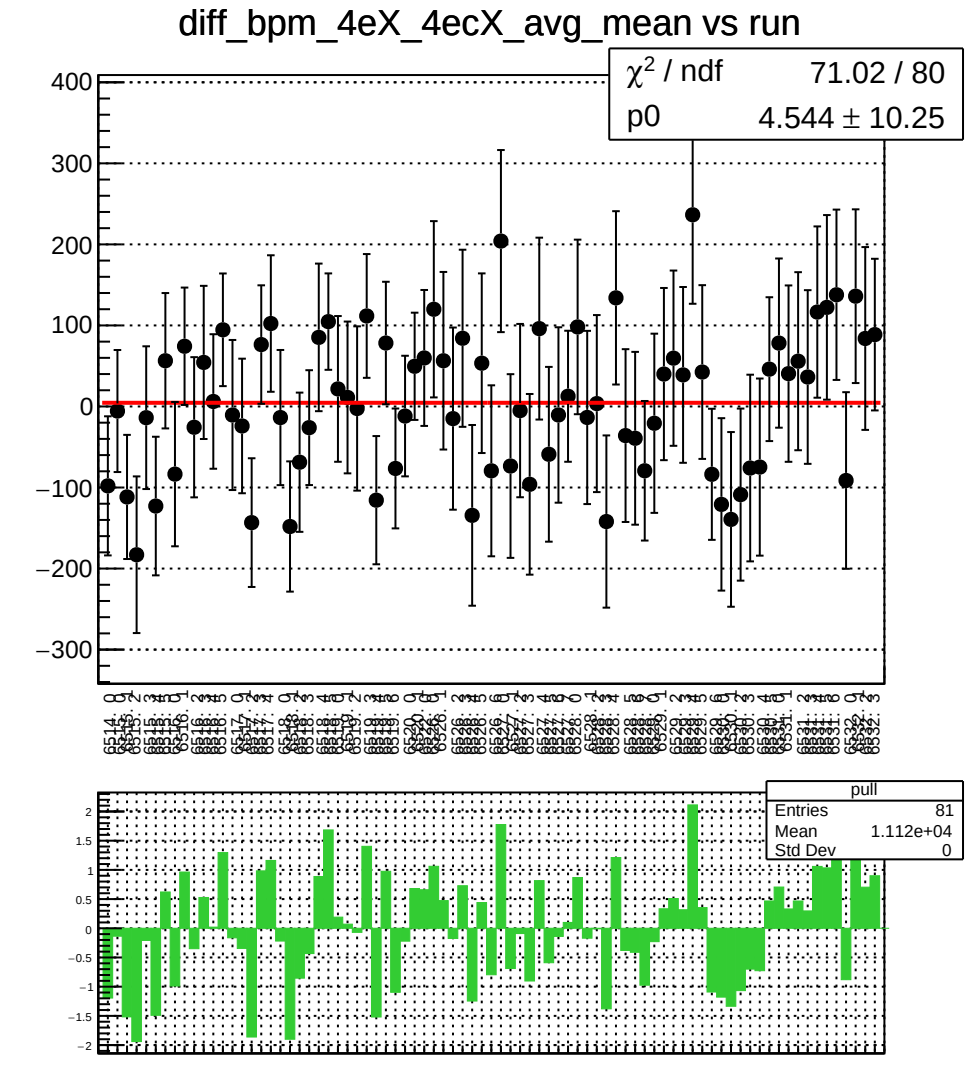

pull1D
Entries 81
Mean 0.004241
Std Dev 0.9358

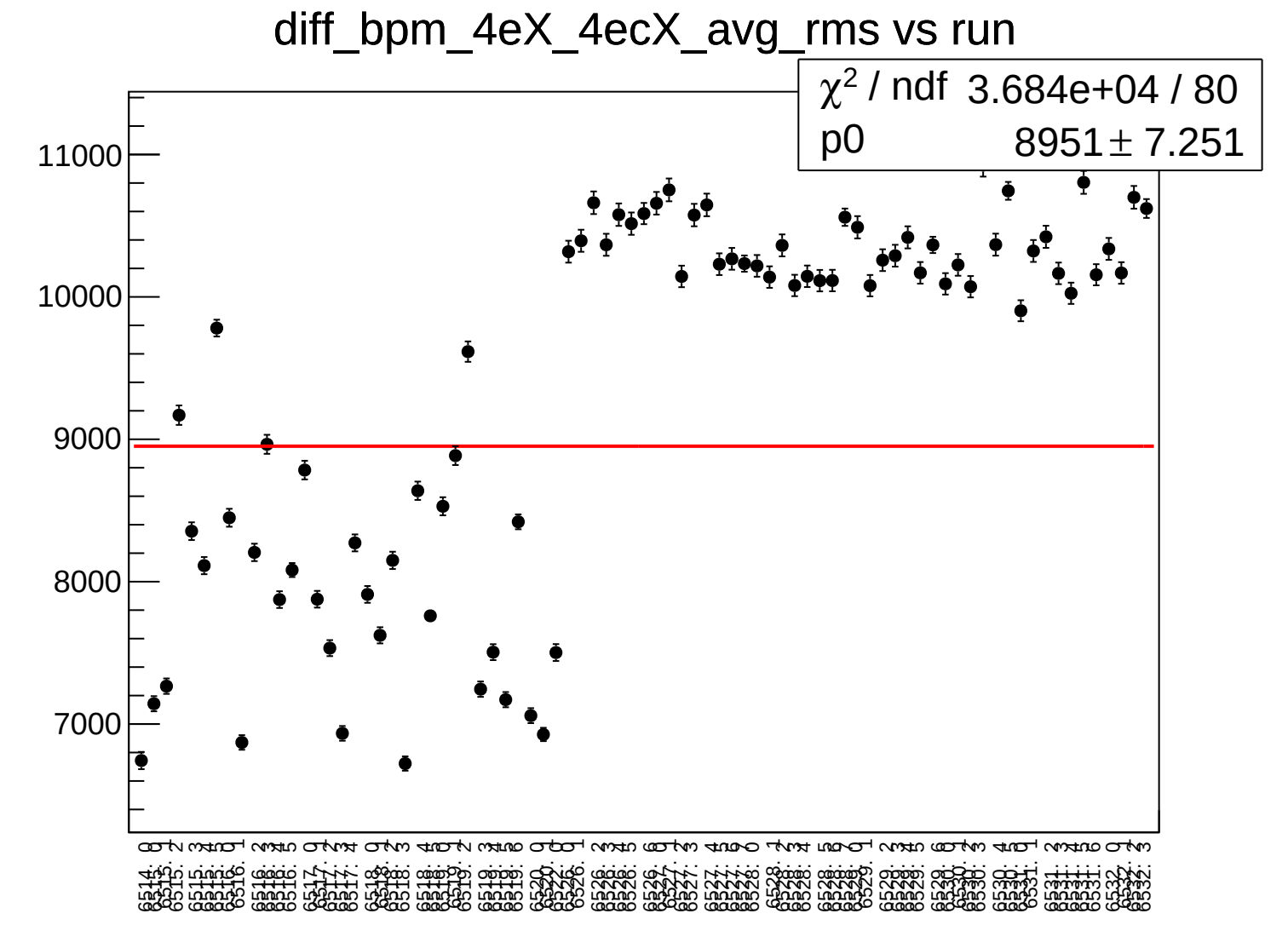

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 3.724e+04 / 80
p0 9386 ± 7.604
12000
11000
10000
9000
8000
7000

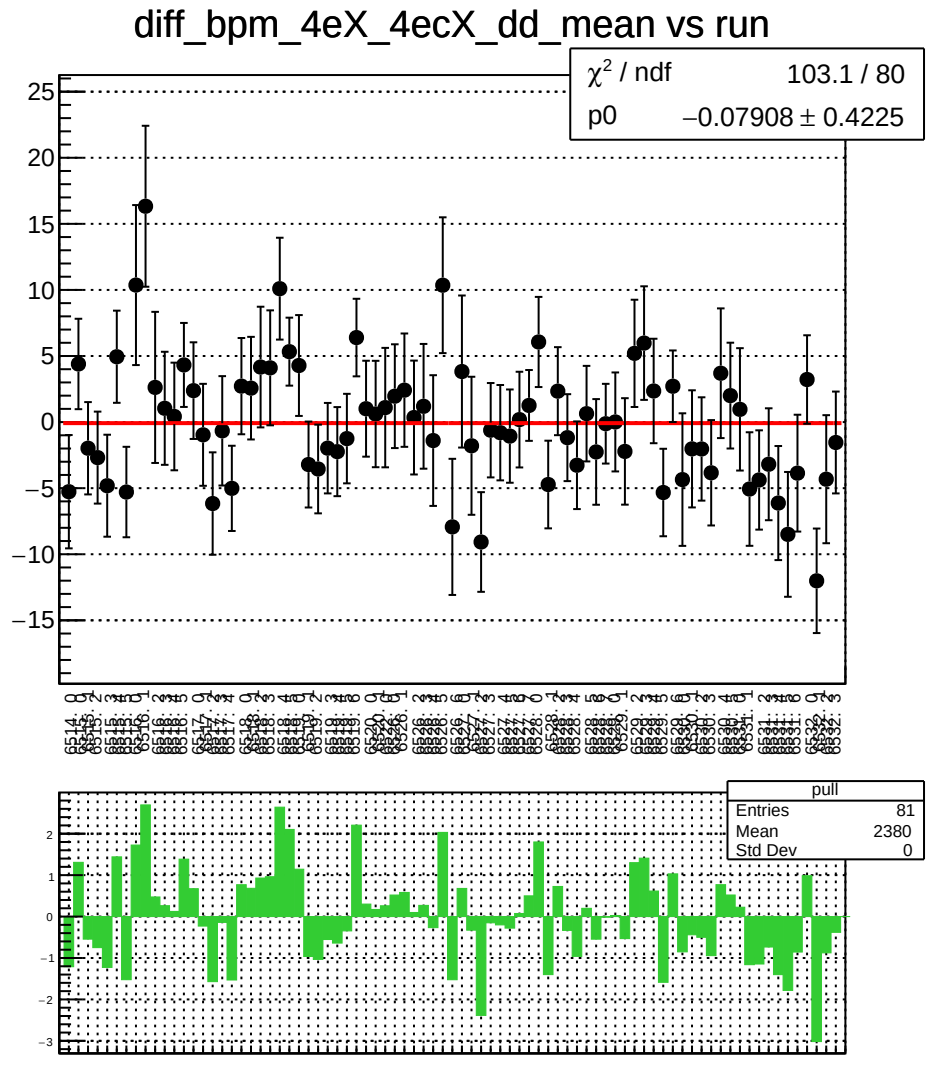

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 96.84 / 80
p0 0.08893 ± 0.6033
pull
Entries 81
Mean 1590
Std Dev 0

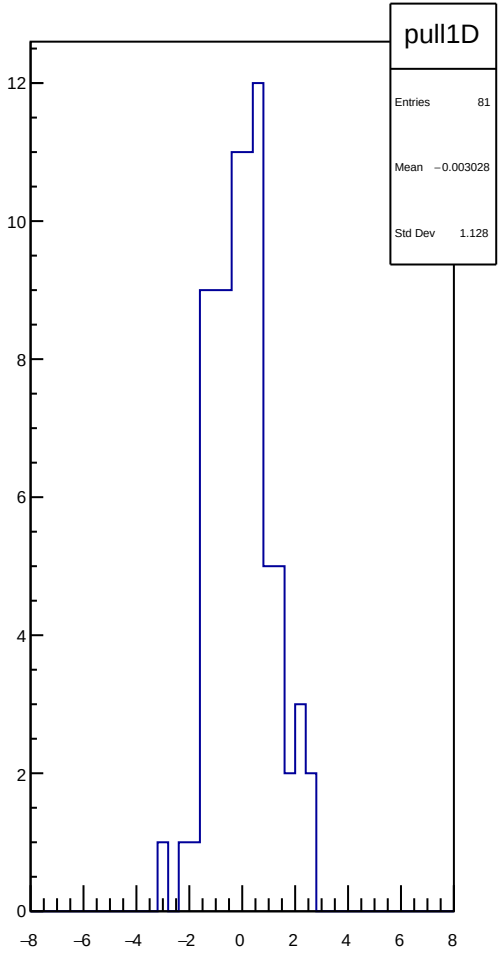

pull1D
Entries 81
Mean 0.004688
Std Dev 1.093

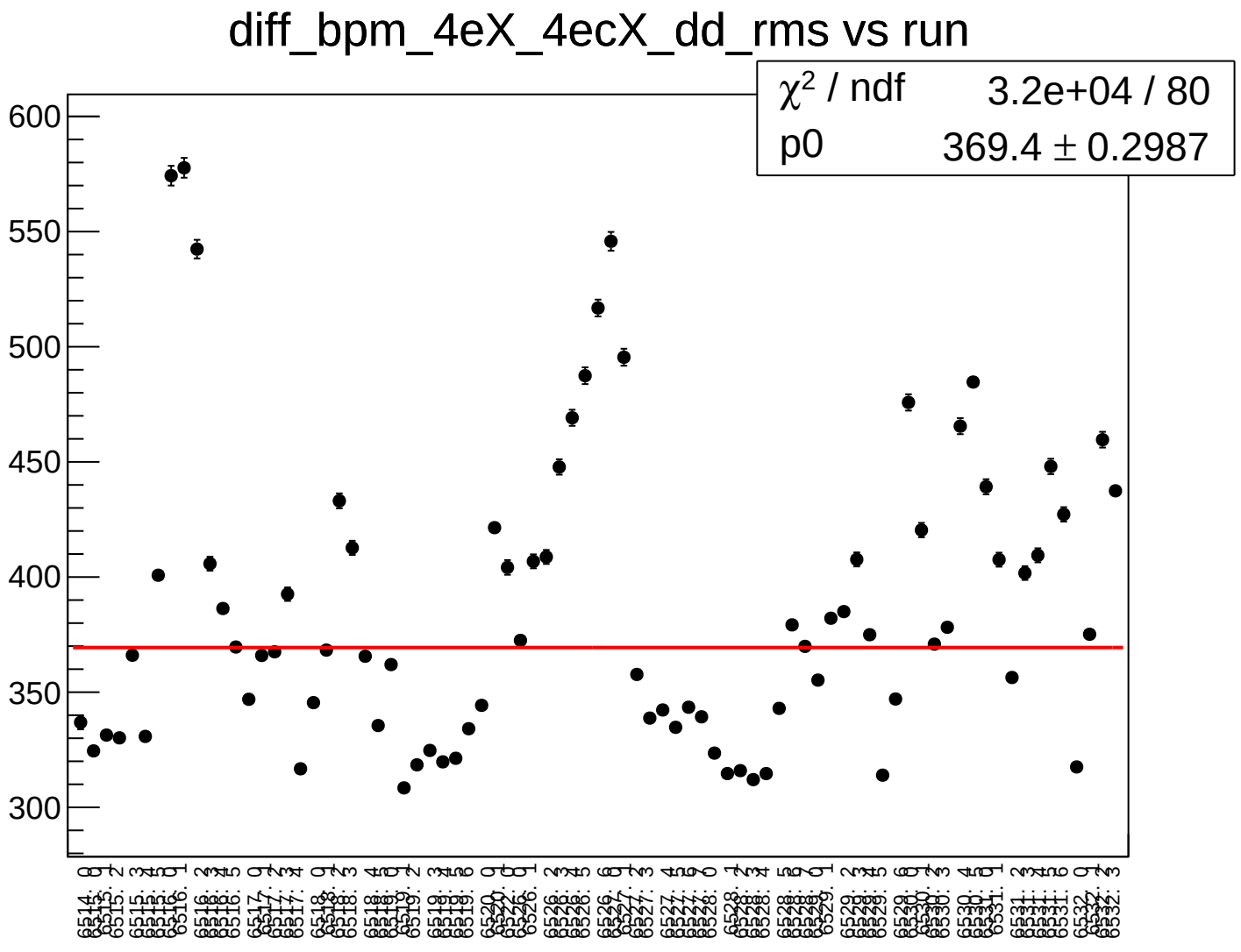

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 1.686e+04 / 80
p0 530.1 ± 0.4266
620
600
580
560
540
520
500
480
460
440
420

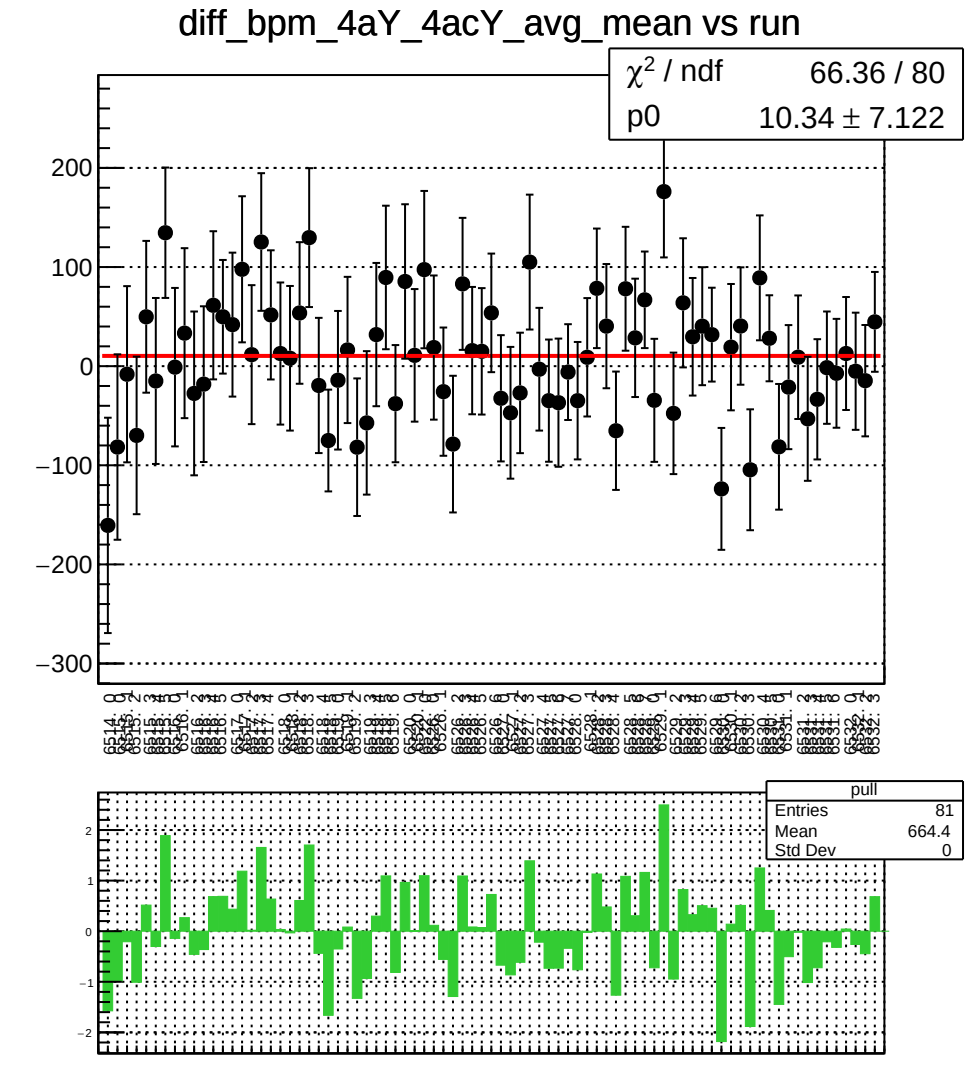

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 71.02 / 80
p0 4.544 ± 10.25
pull
Entries 81
Mean 1.112e+04
Std Dev 0
pull1D
Entries 81
Mean 0.0003937
Std Dev 0.9364

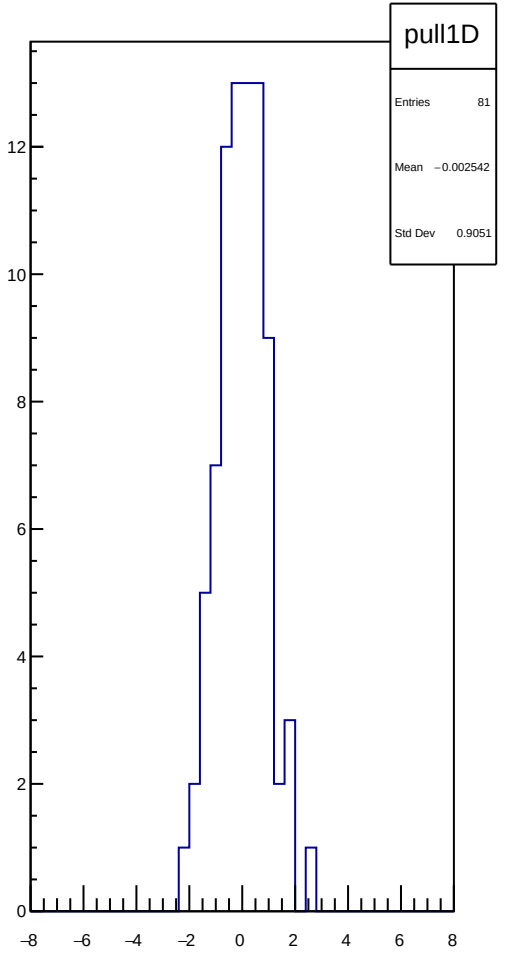

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 3.684e+04 / 80
p0 8951 ± 7.251
11000
10000
9000
8000
7000

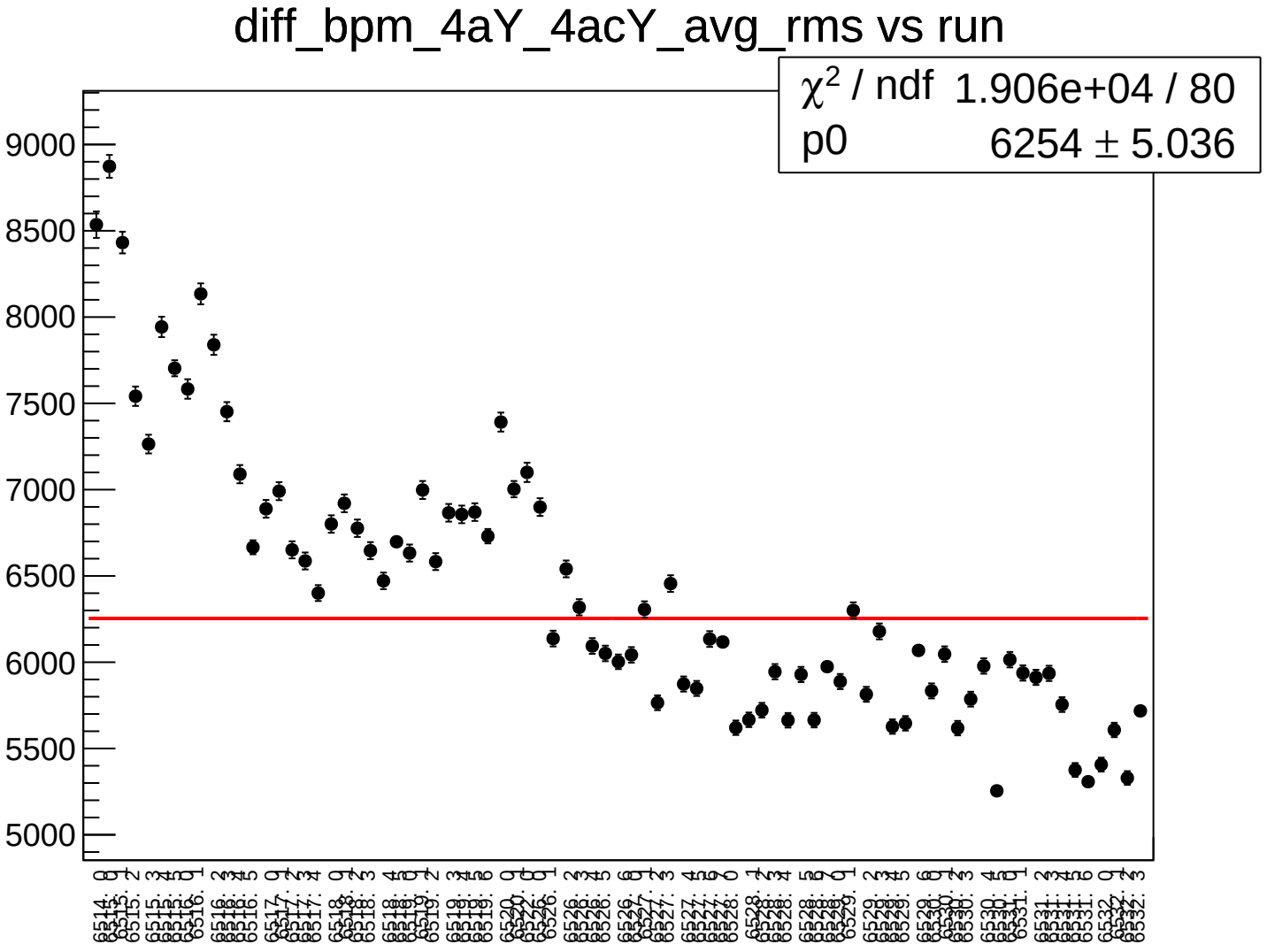

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 103.1 / 80
p0 −0.07908 ± 0.4225
pull
Entries 81
Mean 2380
Std Dev 0

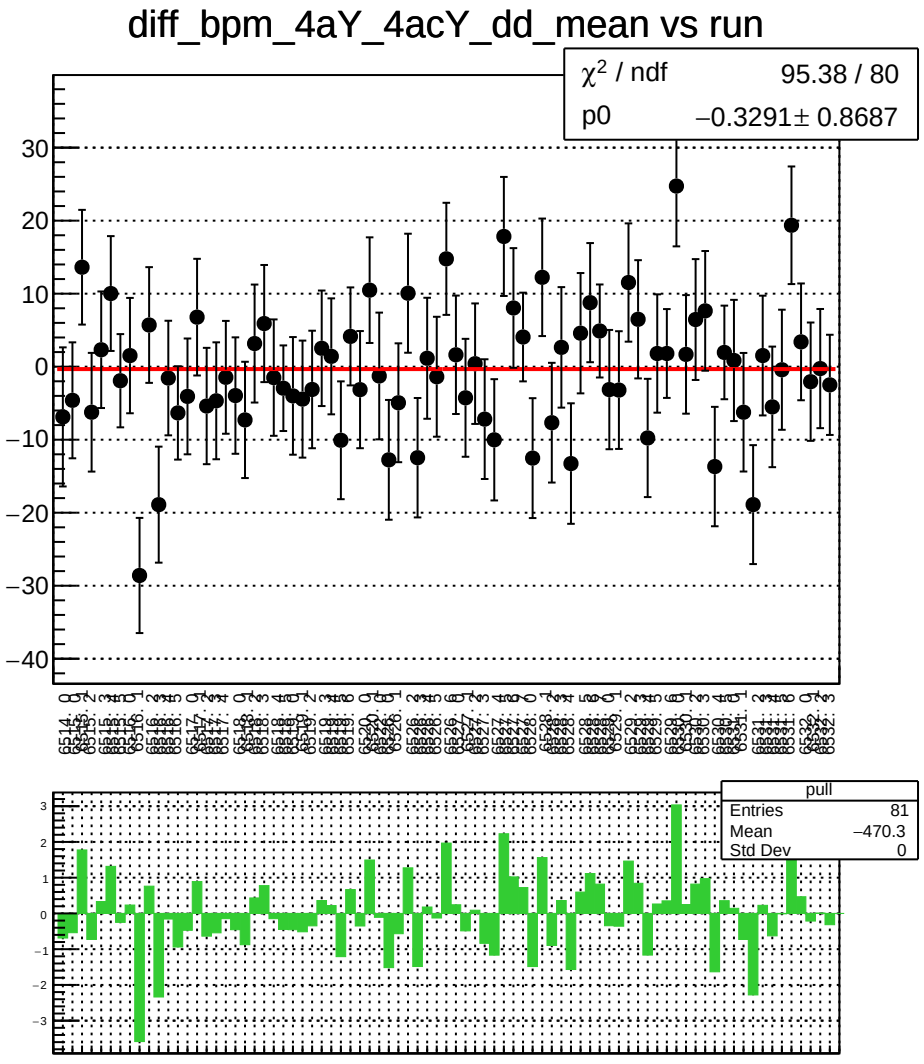

pull1D
Entries 81
Mean −0.003028
Std Dev 1.128

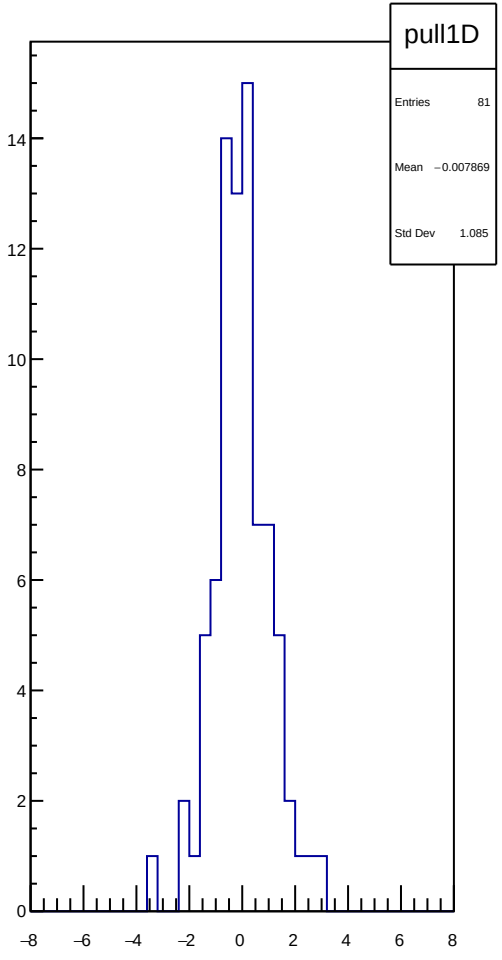

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 3.2e+04 / 80
p0 369.4 ± 0.2987
600
550
500
450
400
350
300

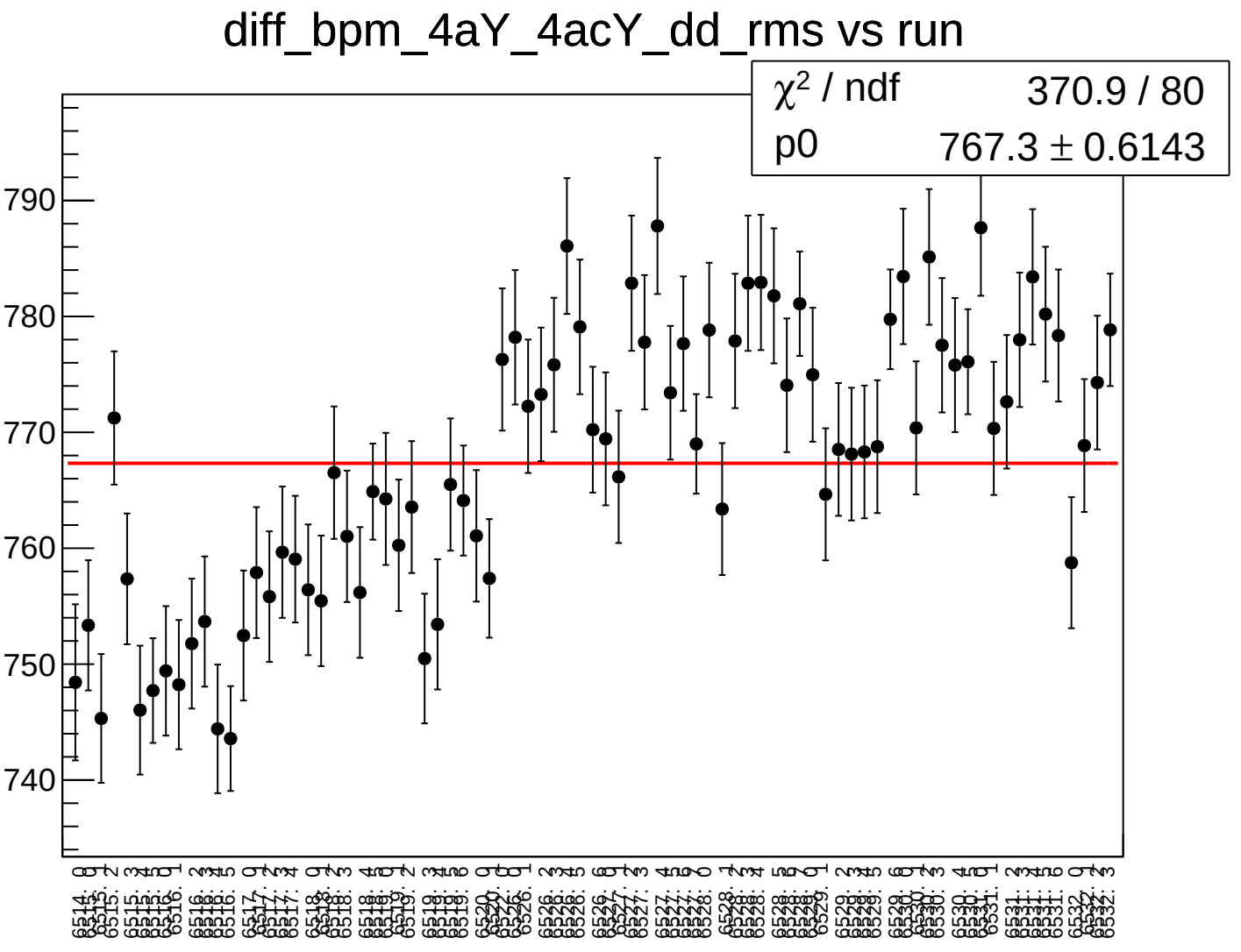

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 66.36 / 80
p0 10.34 ± 7.122
200
100
0
−100
−200
−300
pull
Entries 81
Mean 664.4
Std Dev 0
2
1
0
−1
−2

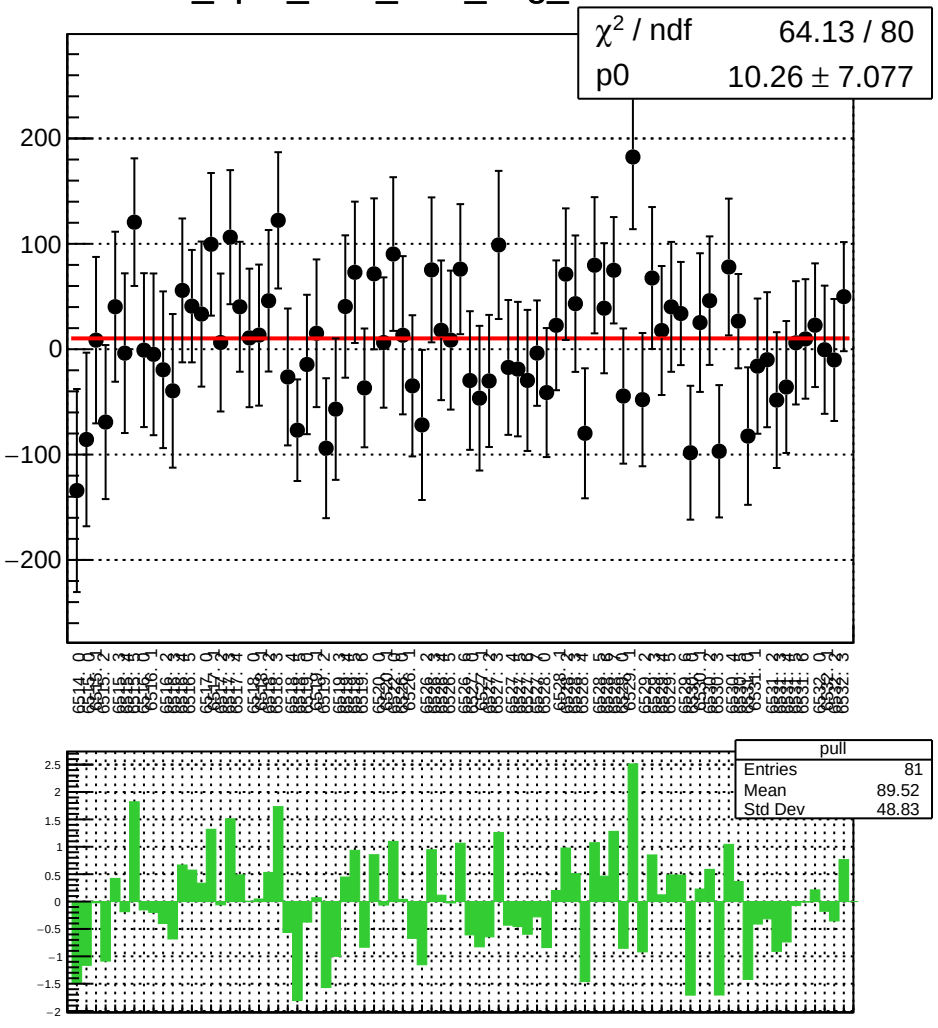

pull1D
Entries 81
Mean −0.002542
Std Dev 0.9051
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

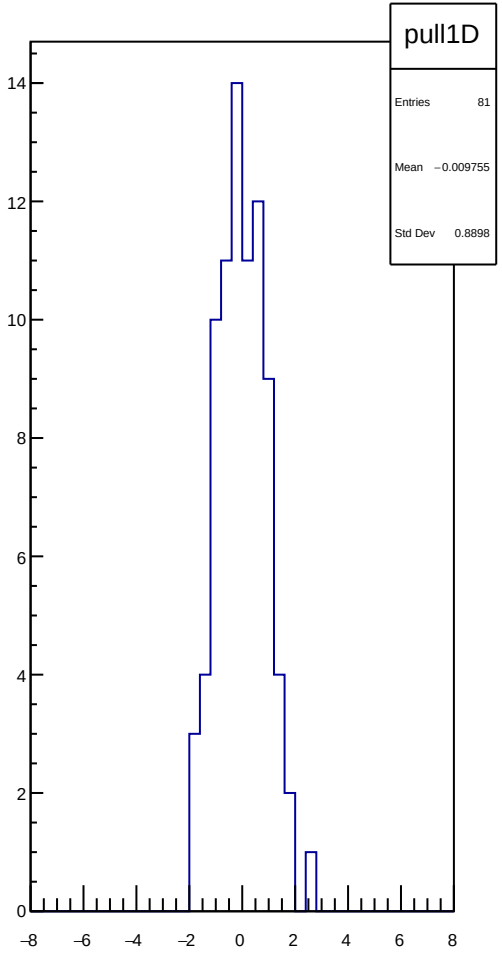

diff_bpm_4aY_4acY_avg_rms vs run
χ^2 / ndf 1.906e+04 / 80
p0 6254 ± 5.036
9000
8500
8000
7500
7000
6500
6000
5500
5000

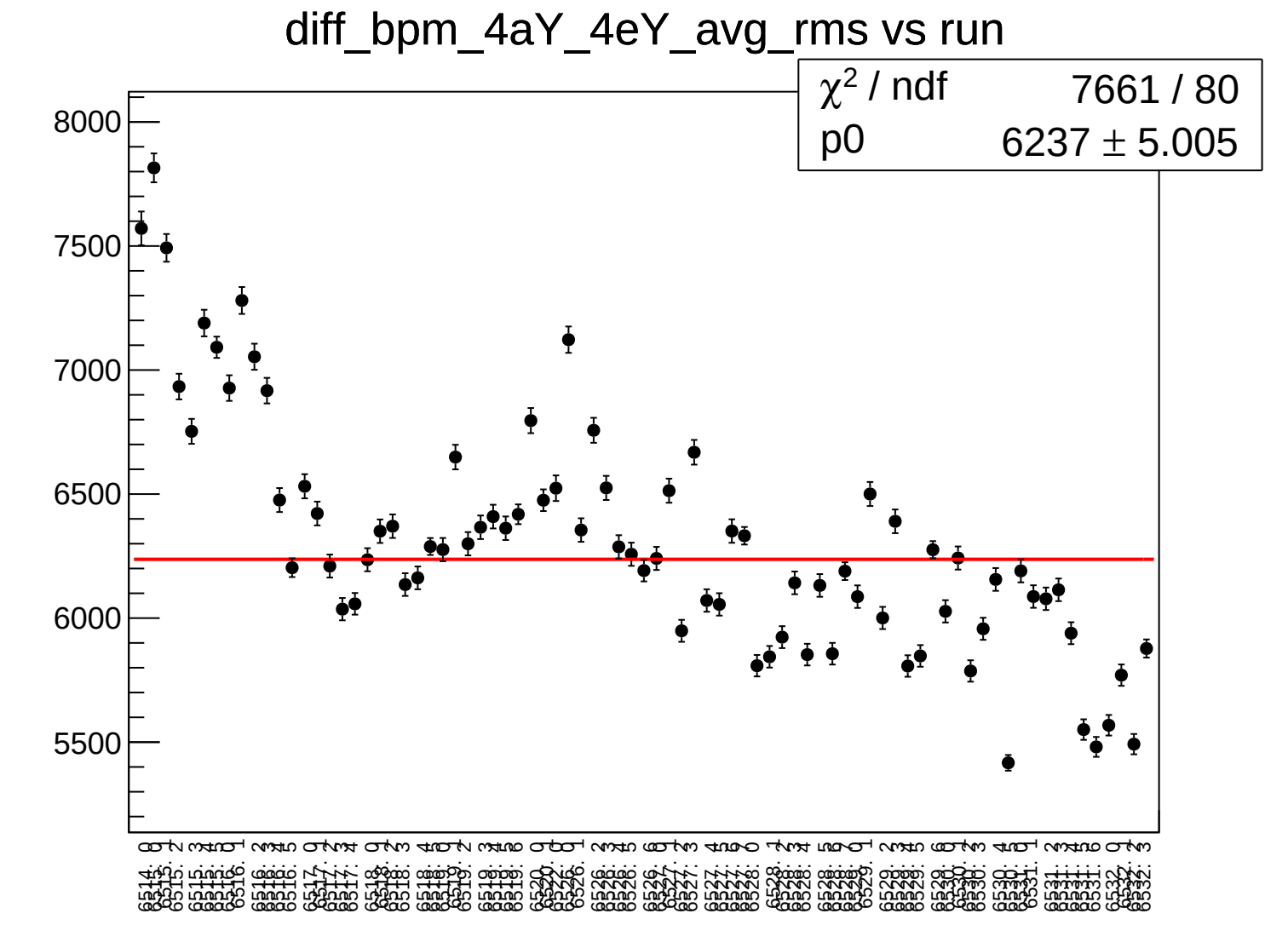

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 95.38 / 80
p0 −0.3291± 0.8687
pull
Entries 81
Mean −470.3
Std Dev 0

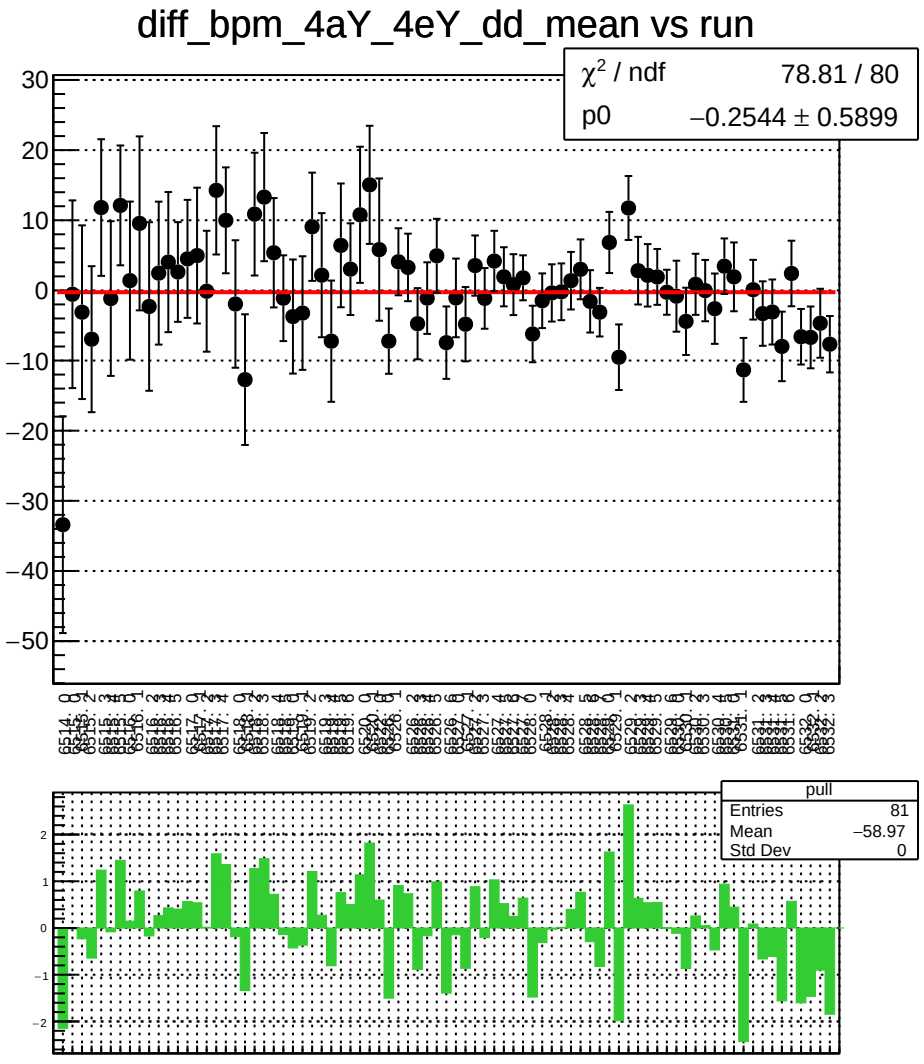

pull1D
Entries 81
Mean −0.007869
Std Dev 1.085

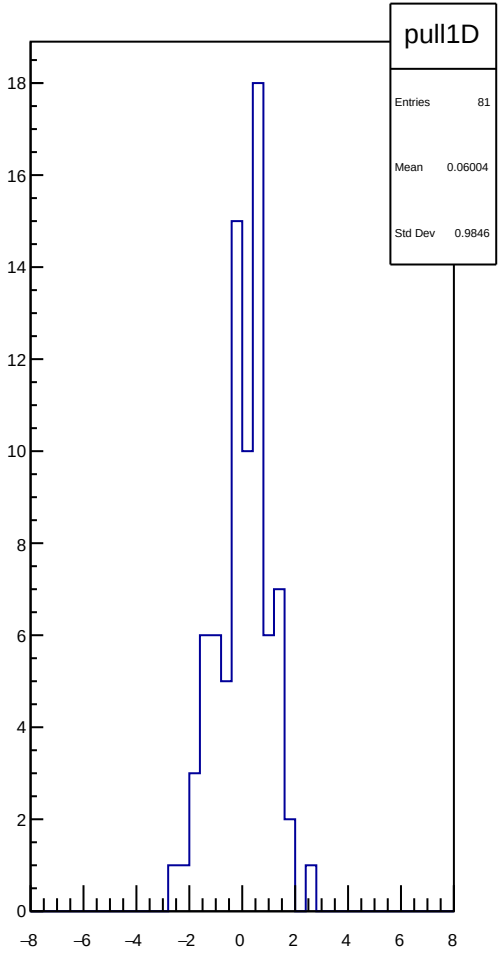

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 370.9 / 80
p0 767.3 ± 0.6143
790
780
770
760
750
740

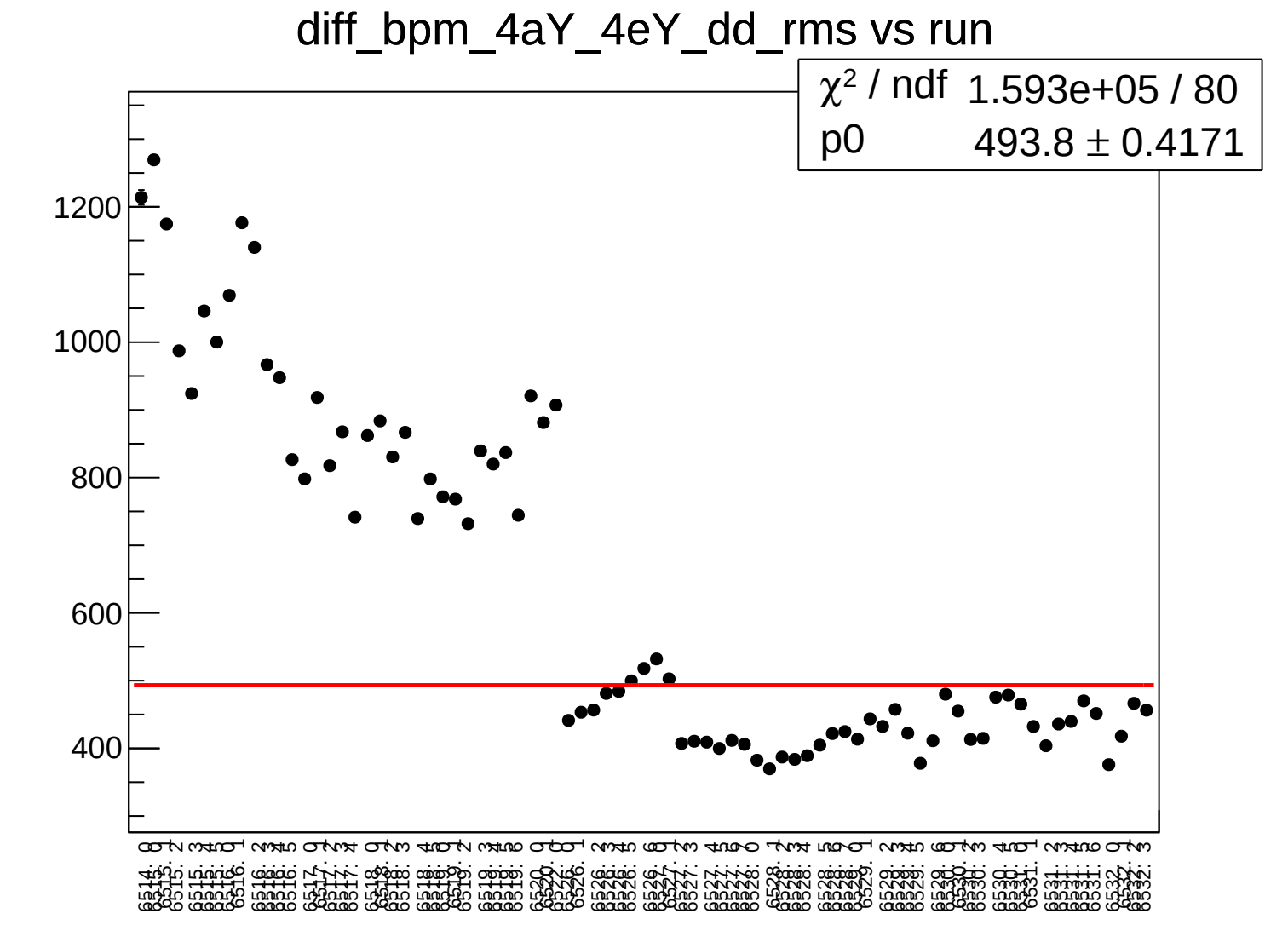

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 64.13 / 80
p0 10.26 ± 7.077
pull
Entries 81
Mean 89.52
Std Dev 48.83

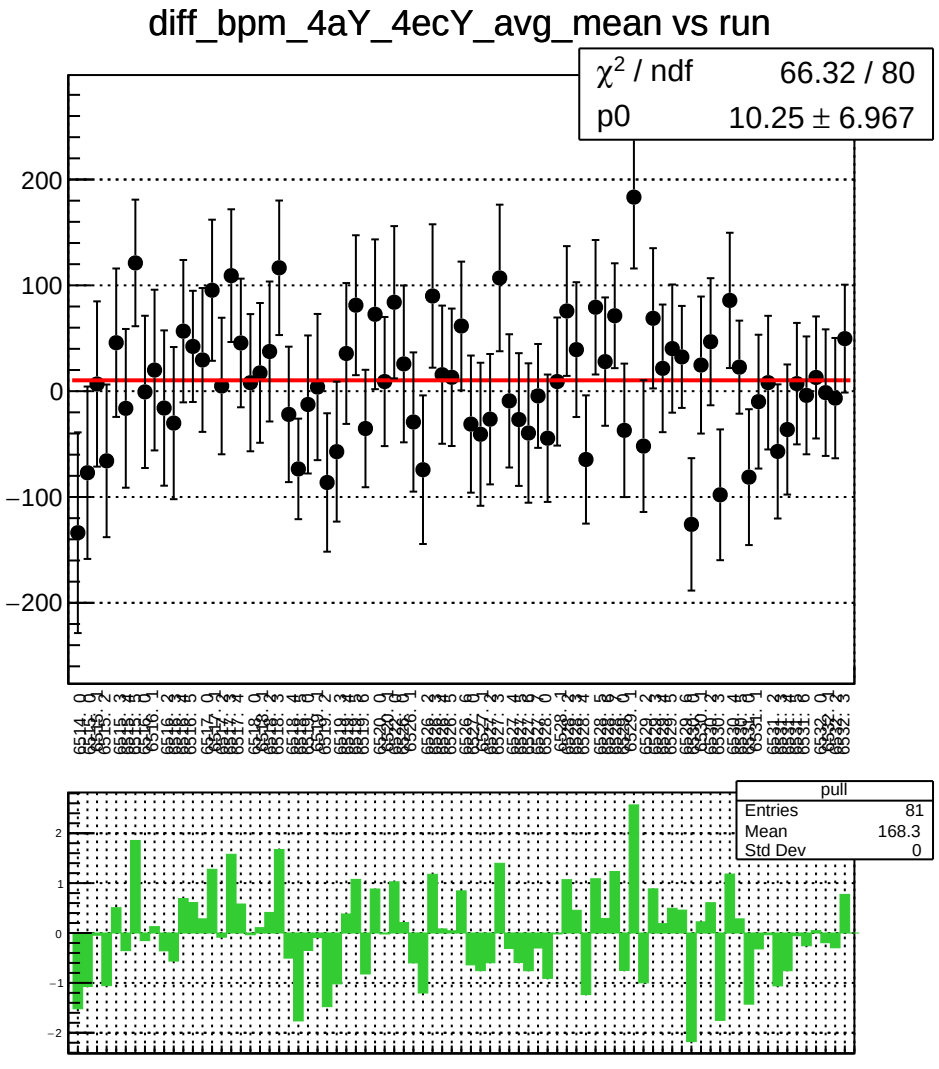

pull1D
Entries 81
Mean −0.009755
Std Dev 0.8898

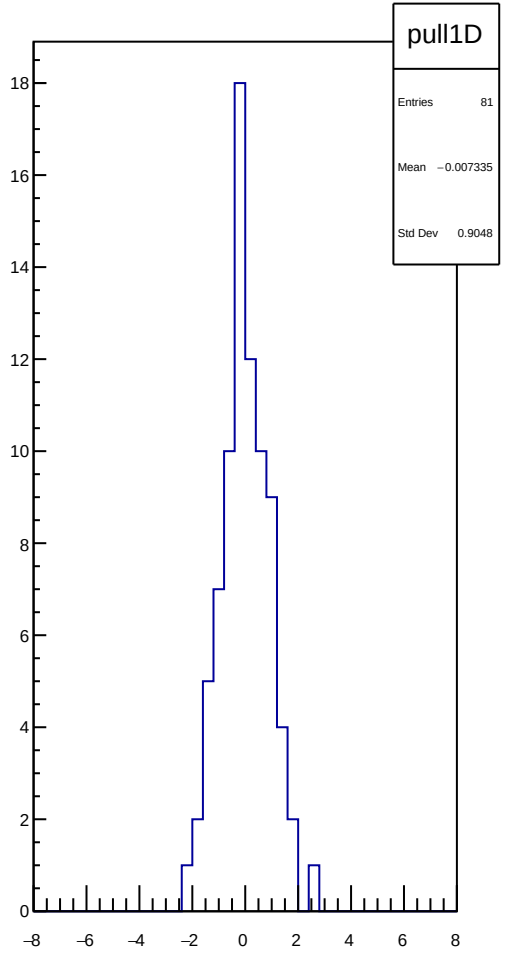

diff_bpm_4aY_4eY_avg_rms vs run
χ² / ndf 7661 / 80
p0 6237 ± 5.005
8000
7500
7000
6500
6000
5500

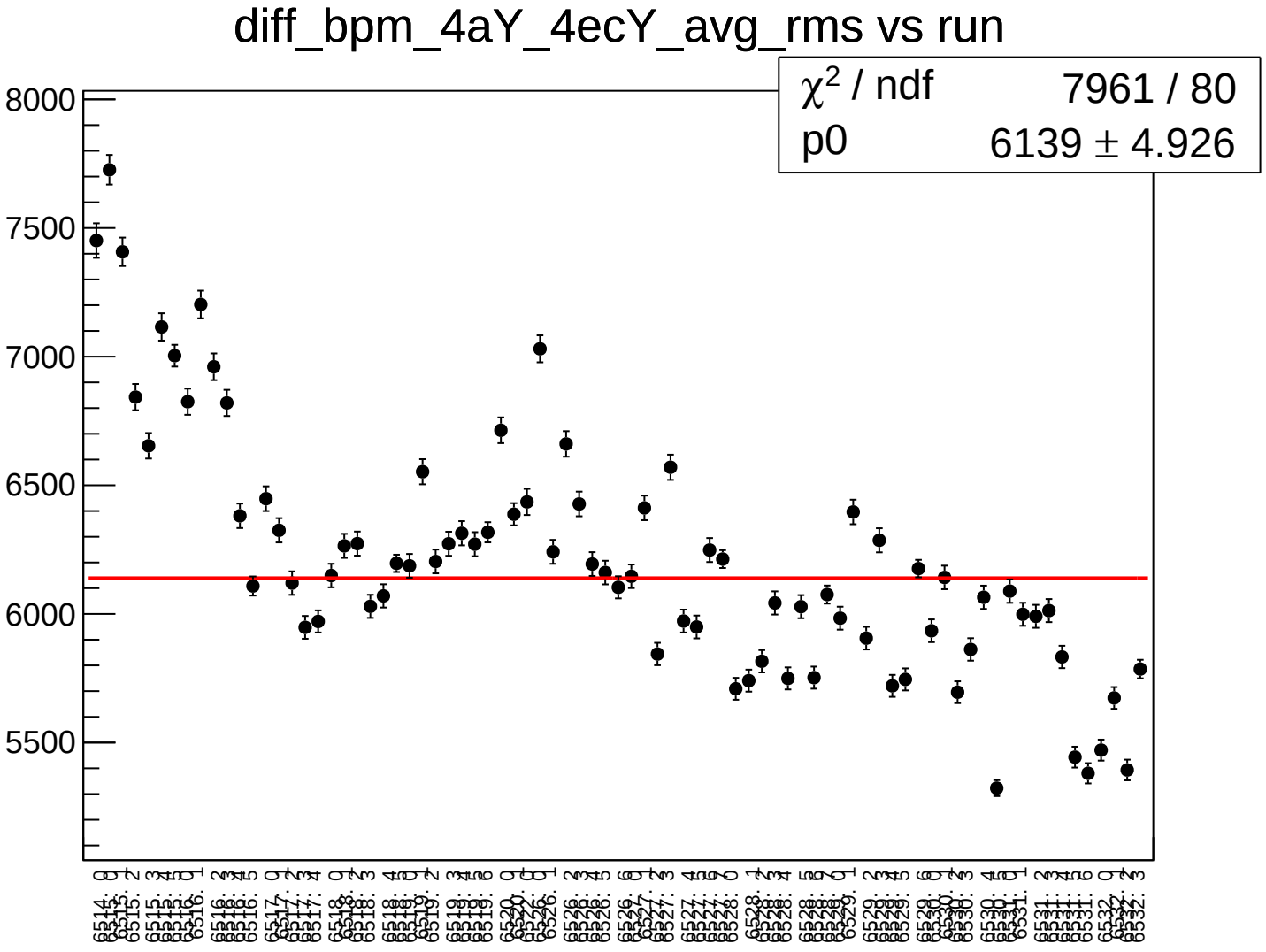

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 78.81 / 80
p0 −0.2544 ± 0.5899
pull
Entries 81
Mean −58.97
Std Dev 0

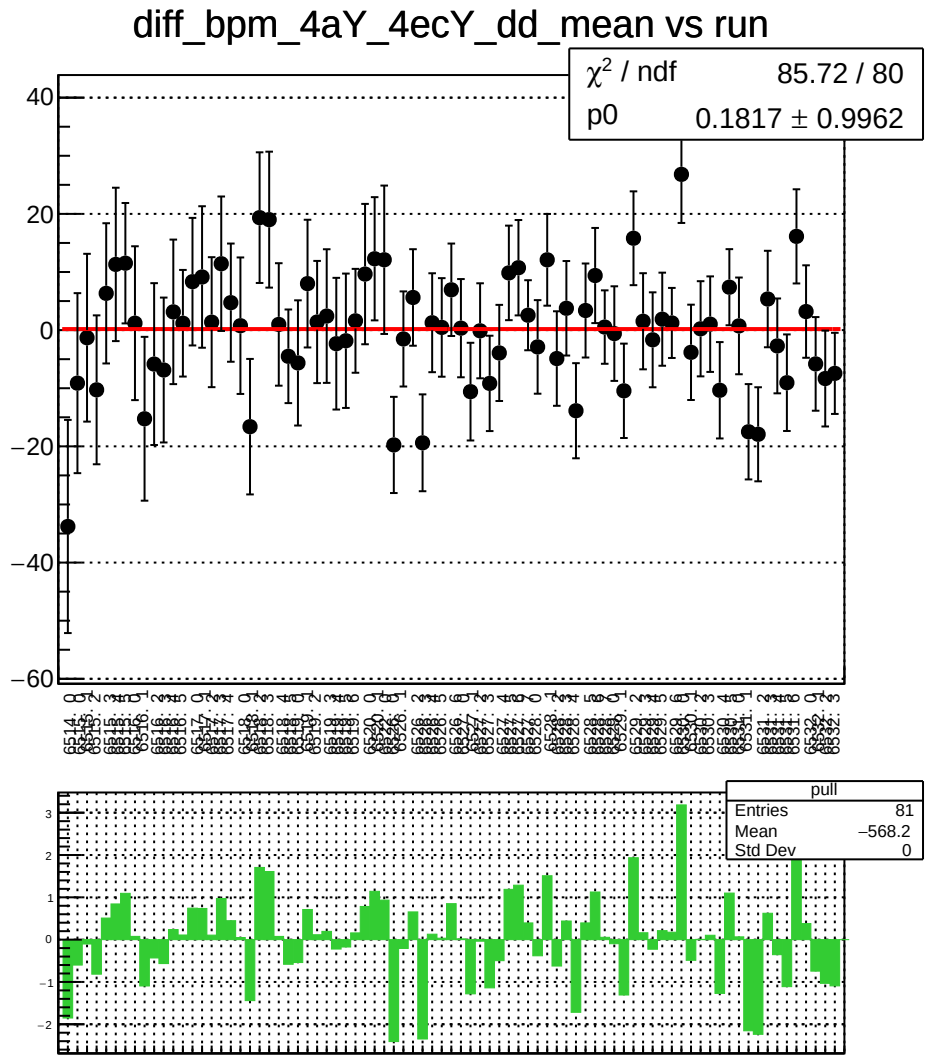

pull1D
Entries 81
Mean 0.06004
Std Dev 0.9846

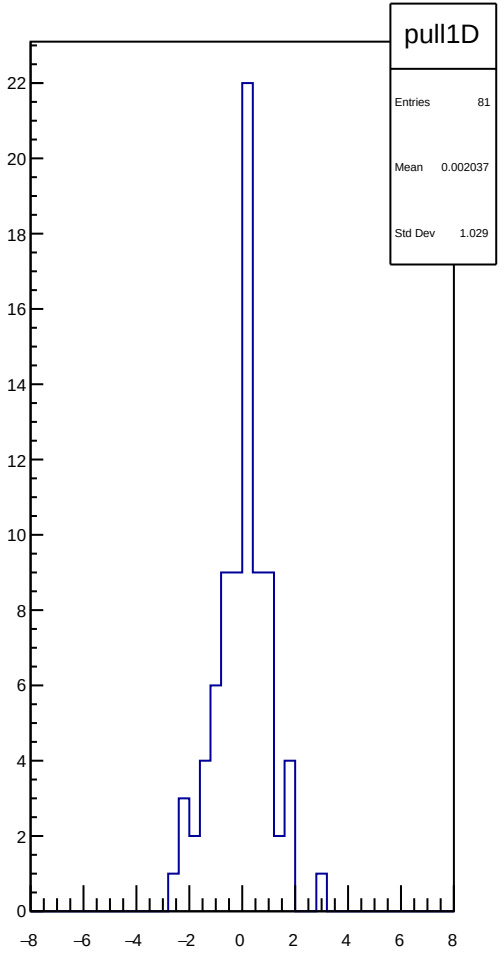

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 1.593e+05 / 80
p0 493.8 ± 0.4171
1200
1000
800
600
400

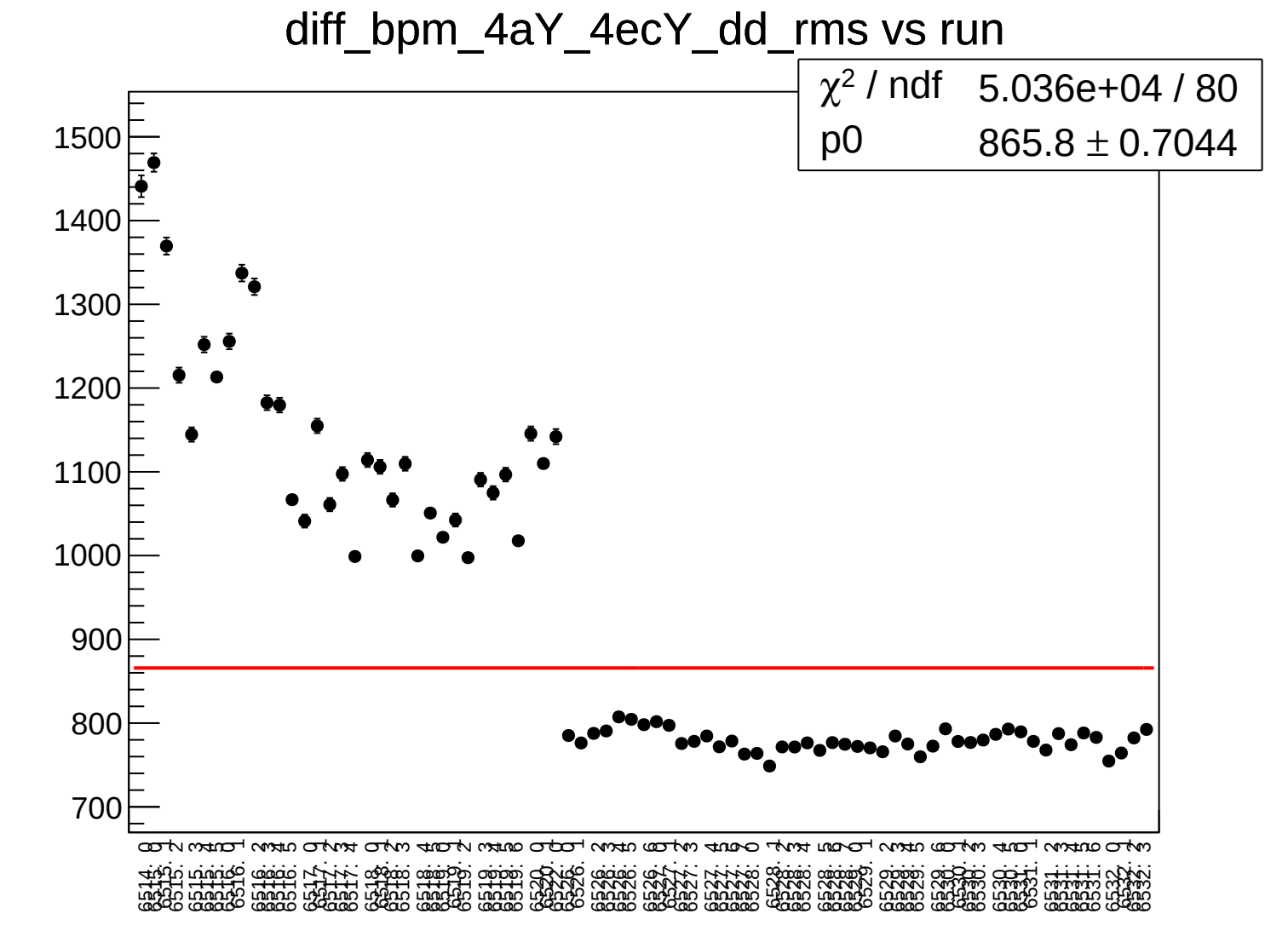

diff_bpm_4aY_4ecY_avg_mean vs run
χ^2 / ndf 66.32 / 80
p0 10.25 ± 6.967
200
100
0
−100
−200
pull
Entries 81
Mean 168.3
Std Dev 0
2
1
0
−1
−2

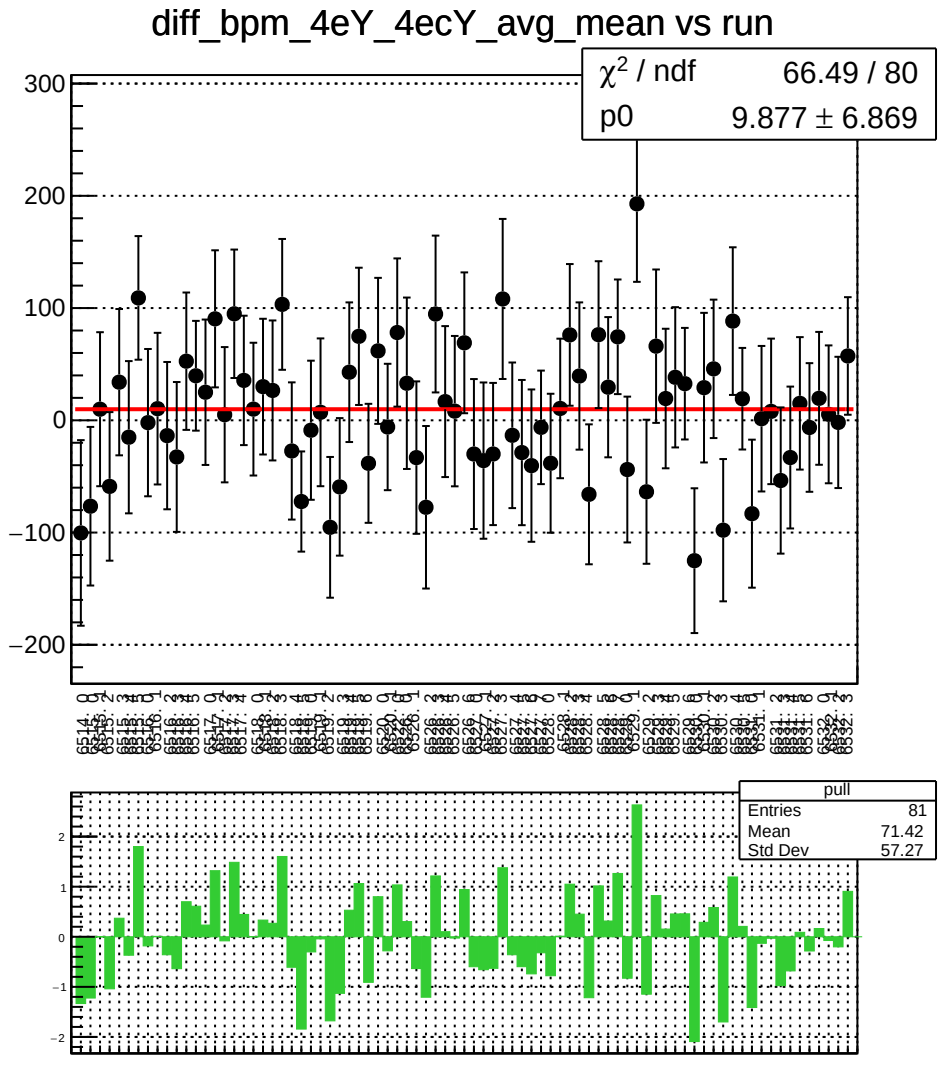

pull1D
Entries 81
Mean −0.007335
Std Dev 0.9048
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

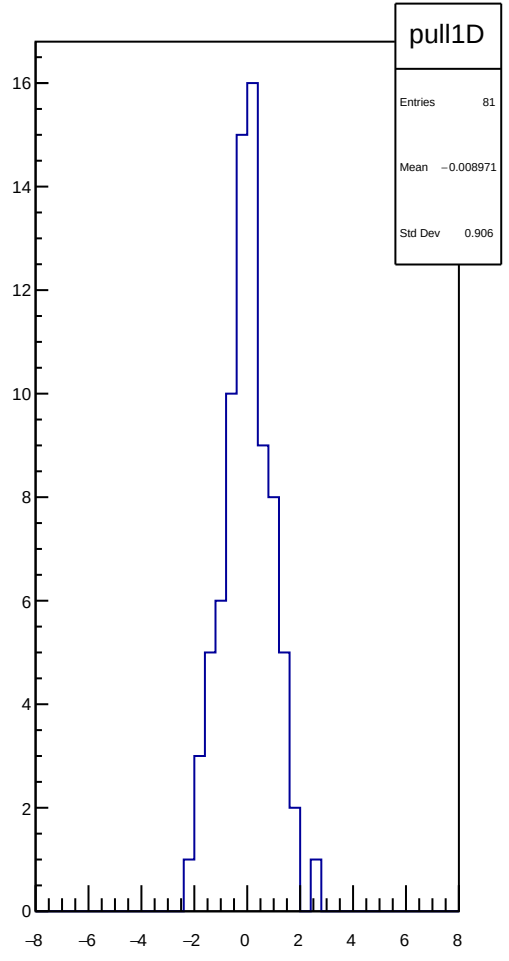

diff_bpm_4aY_4ecY_avg_rms vs run
χ² / ndf 7961 / 80
p0 6139 ± 4.926
8000
7500
7000
6500
6000
5500

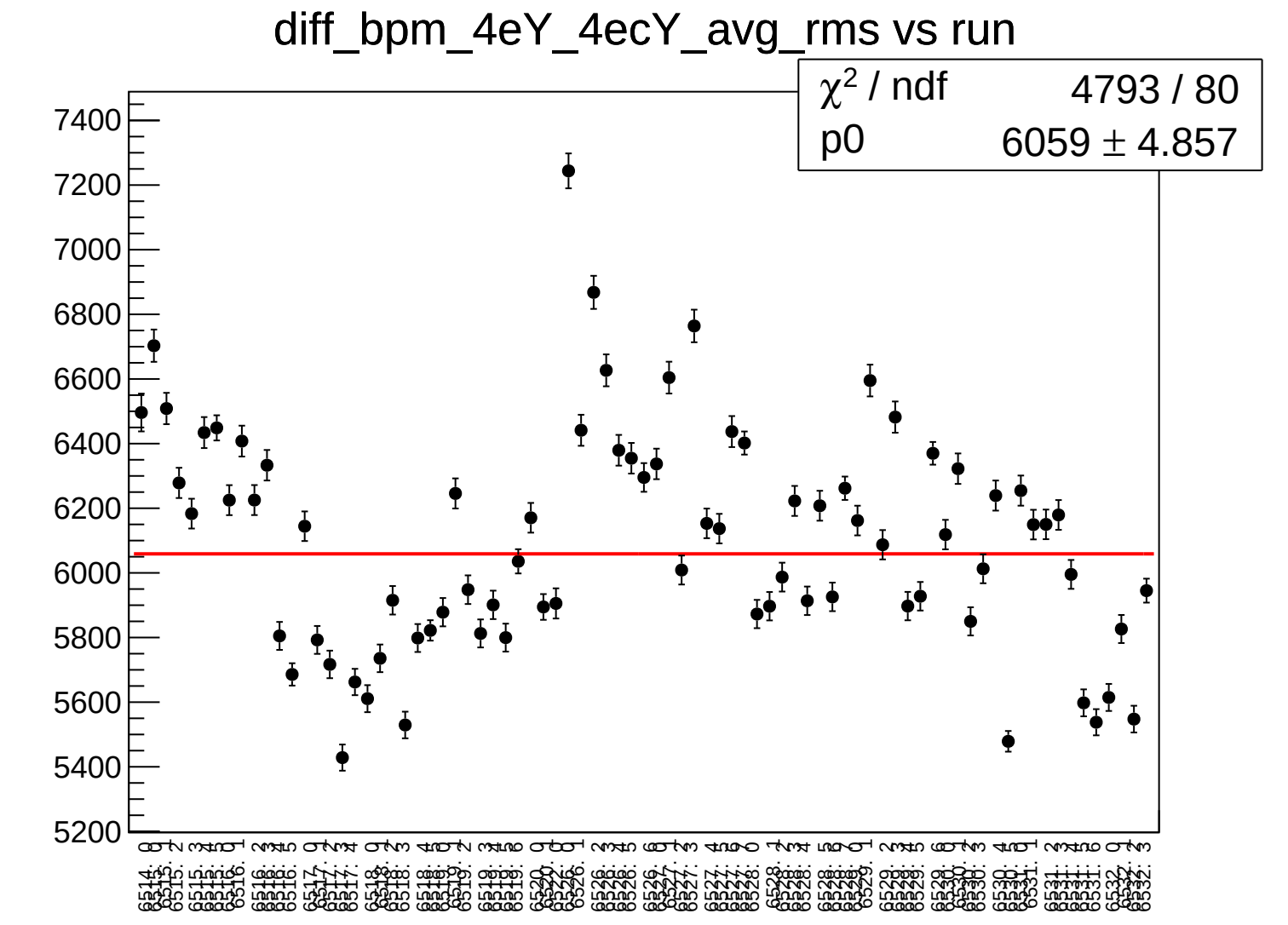

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 85.72 / 80
p0 0.1817 ± 0.9962
pull
Entries 81
Mean −568.2
Std Dev 0

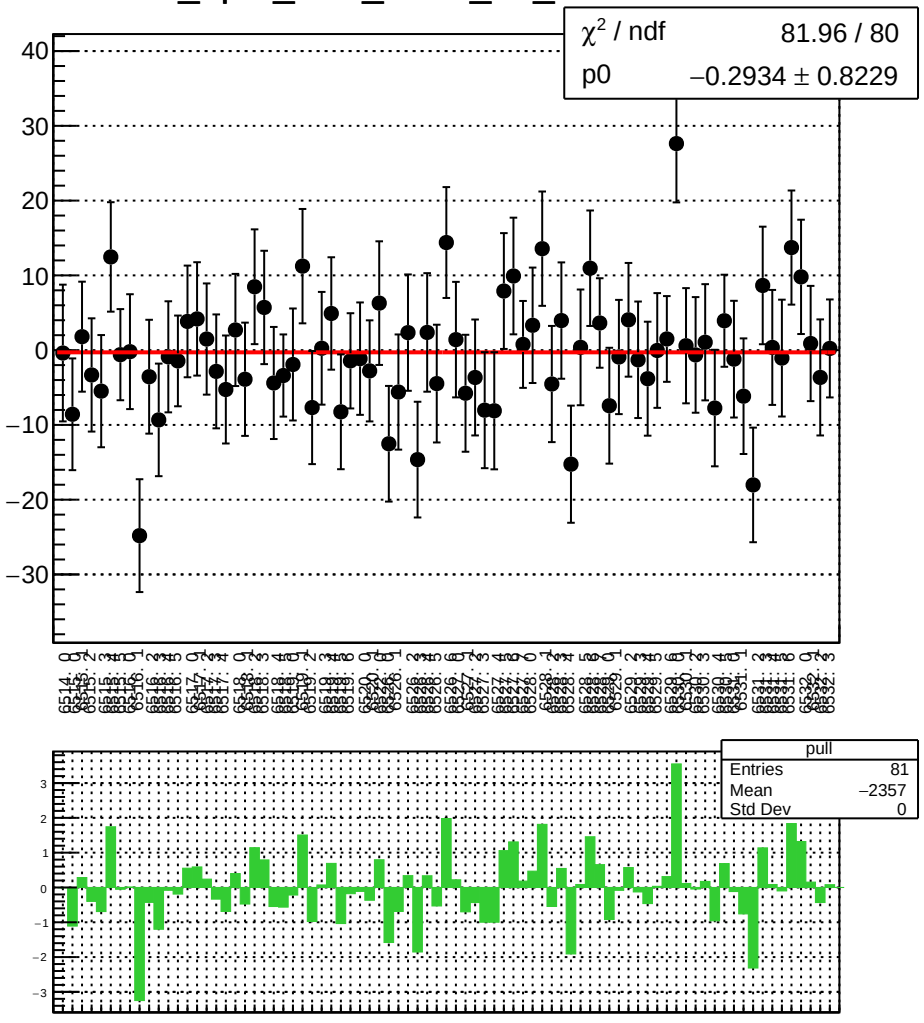

pull1D
Entries 81
Mean 0.002037
Std Dev 1.029

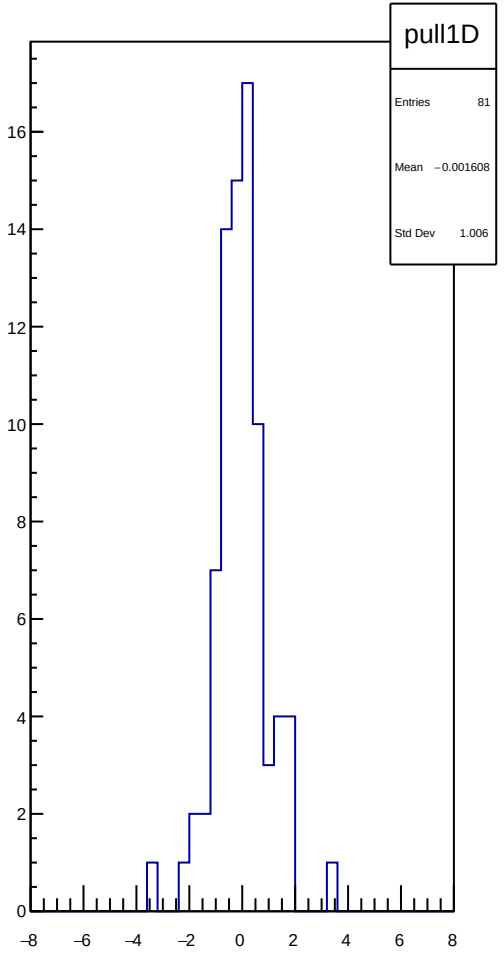

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 5.036e+04 / 80
p0 865.8 ± 0.7044
1500
1400
1300
1200
1100
1000
900
800
700

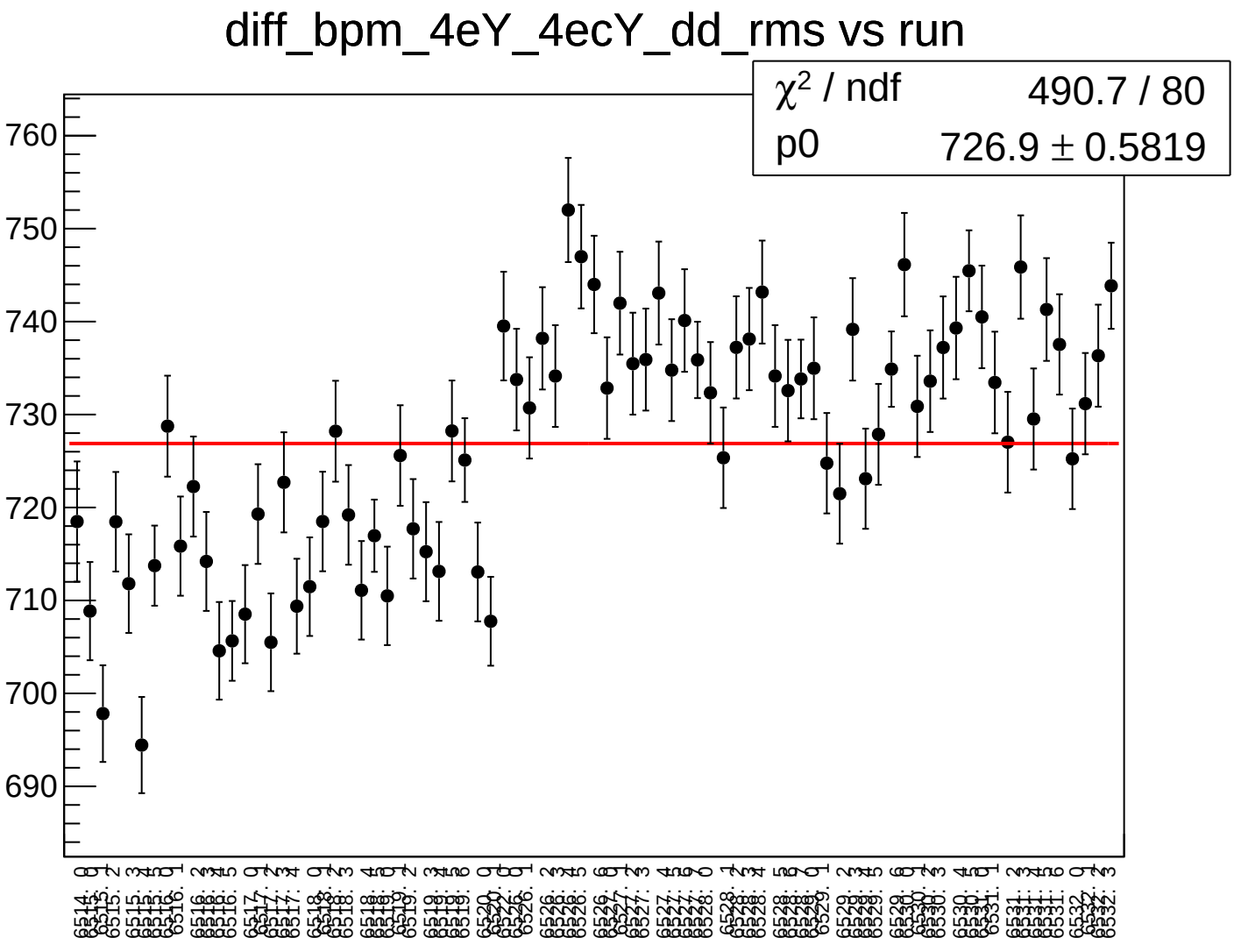

diff_bpm_4eY_4ecY_avg_mean vs run
χ² / ndf 66.49 / 80
p0 9.877 ± 6.869
300
200
100
0
−100
−200
pull
Entries 81
Mean 71.42
Std Dev 57.27
2
1
0
−1
−2

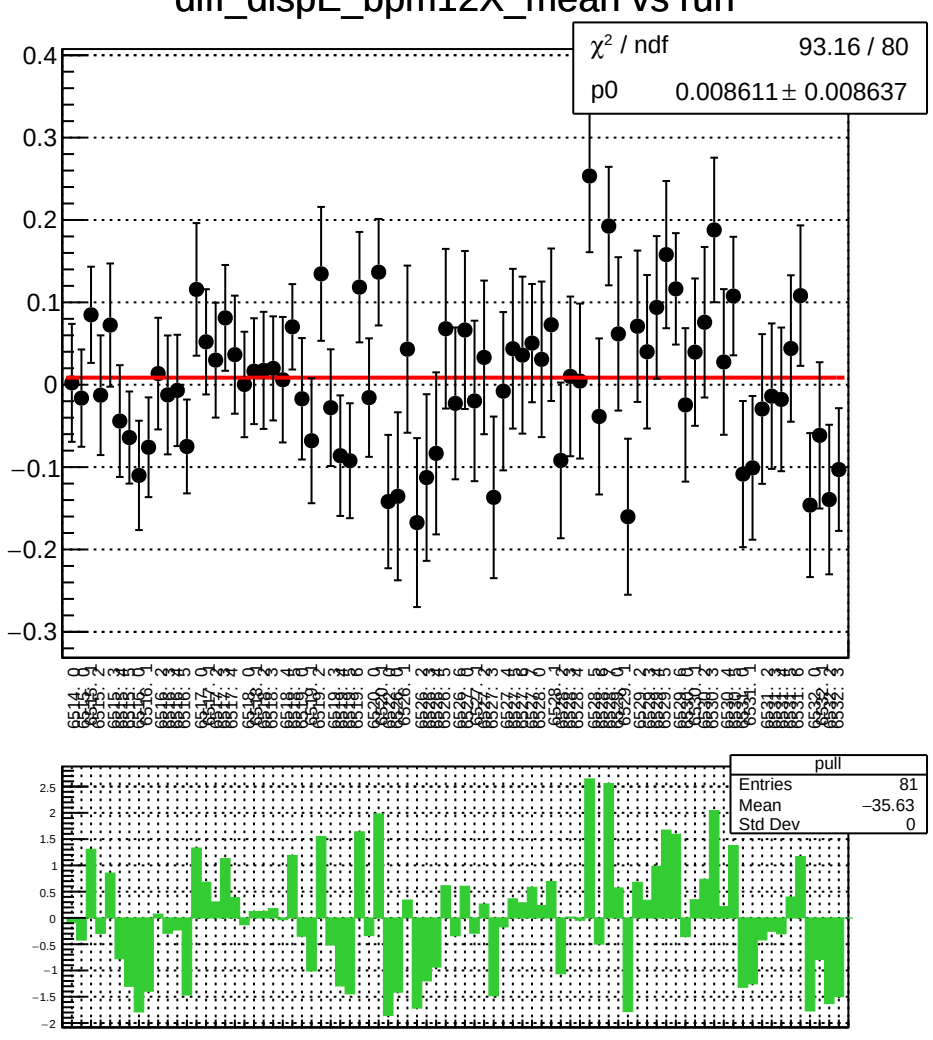

pull1D
Entries 81
Mean −0.008971
Std Dev 0.906
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

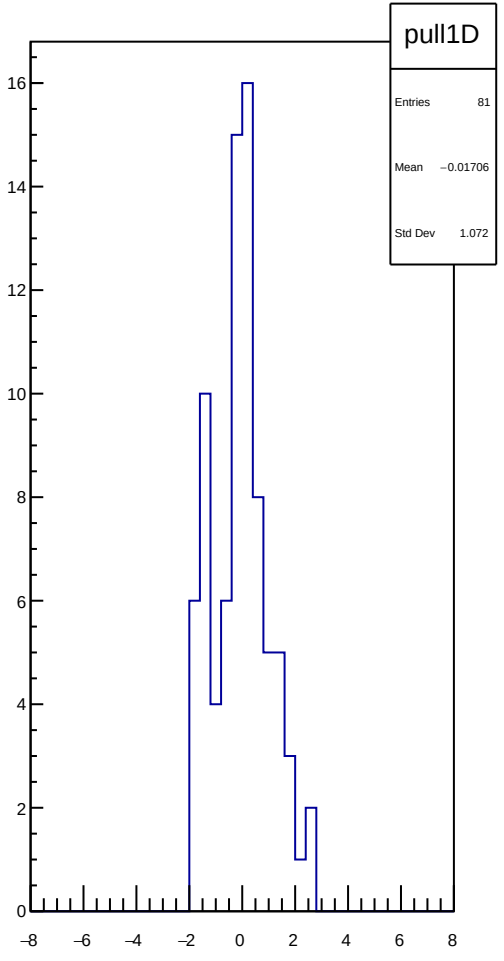

diff_bpm_4eY_4ecY_avg_rms vs run
χ² / ndf 4793 / 80
p0 6059 ± 4.857
7400
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400
5200

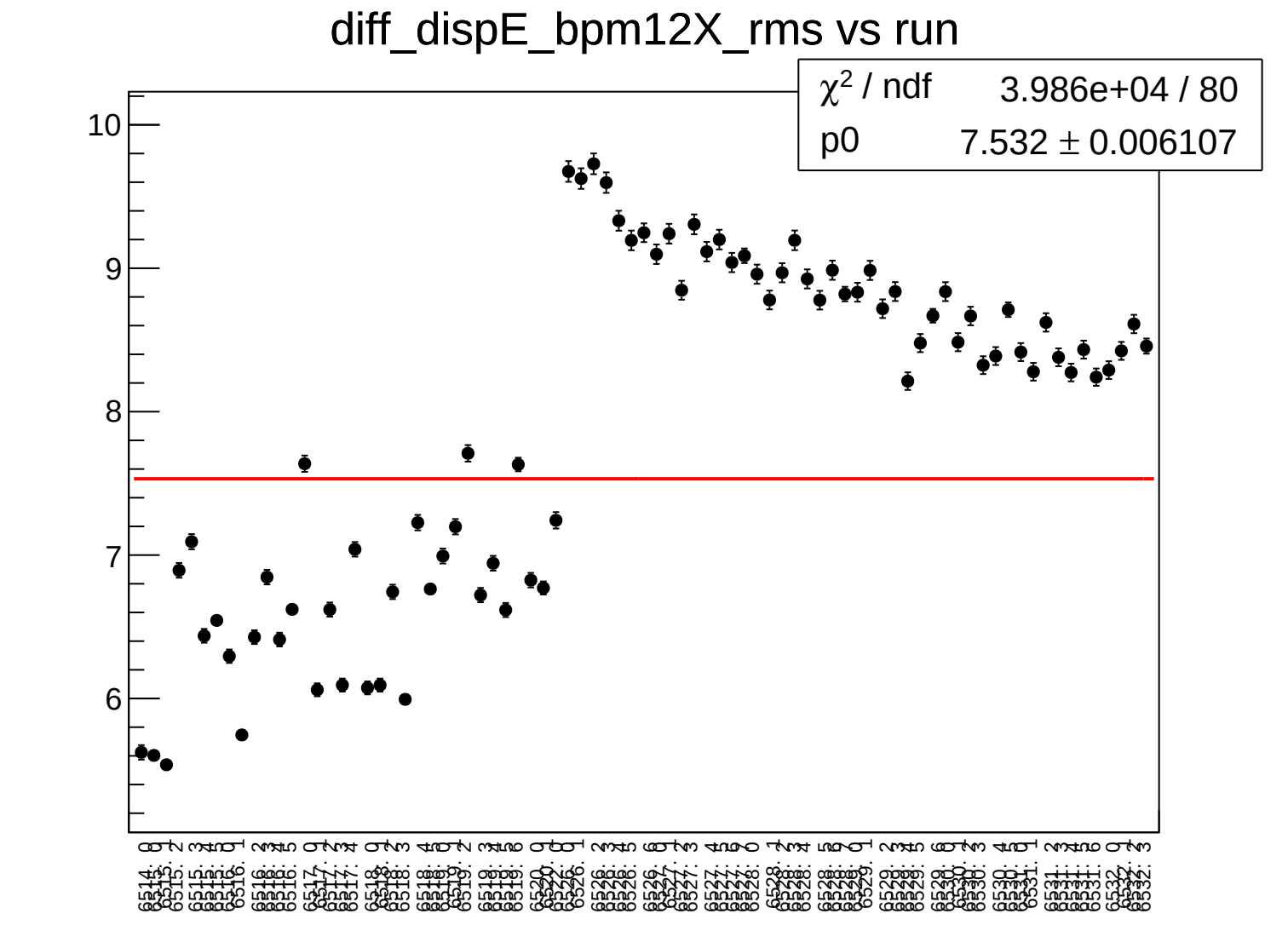

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 81.96 / 80
p0 −0.2934 ± 0.8229
pull
Entries 81
Mean −2357
Std Dev 0

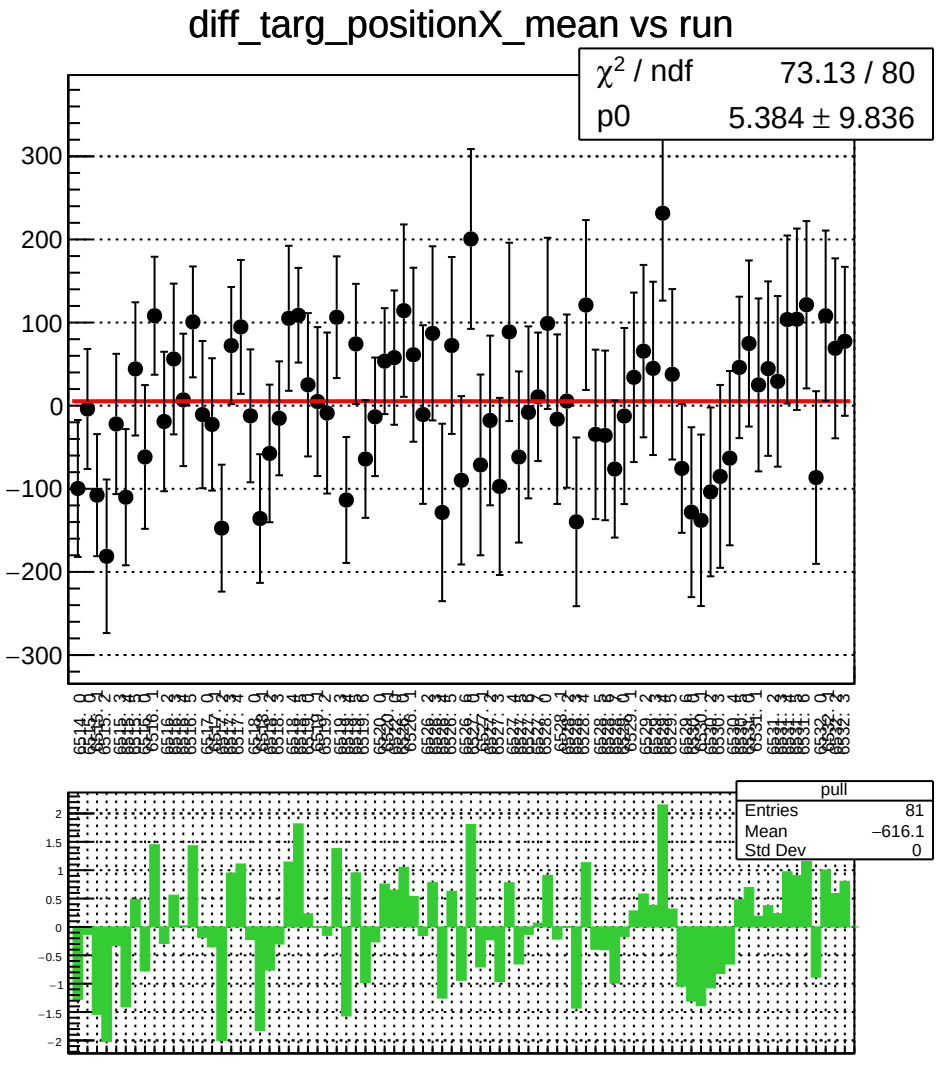

pull1D
Entries 81
Mean −0.001608
Std Dev 1.006

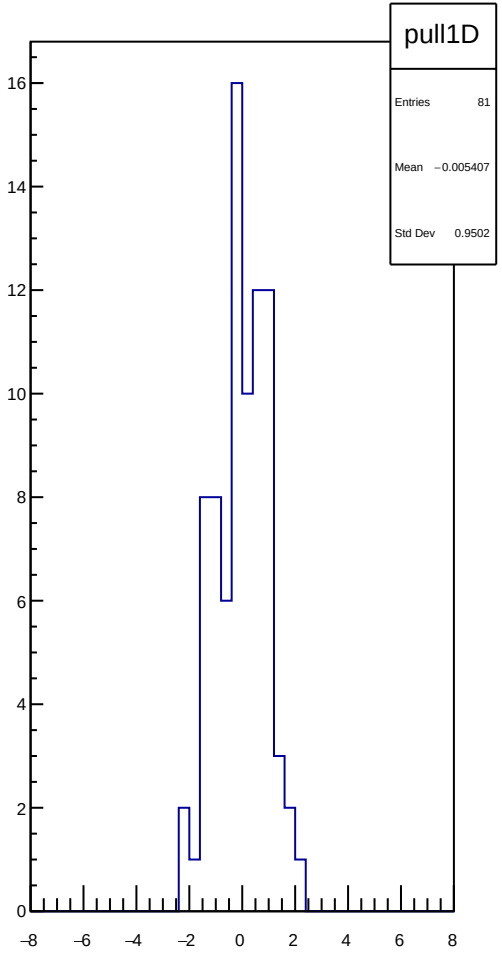

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 490.7 / 80
p0 726.9 ± 0.5819
760
750
740
730
720
710
700
690

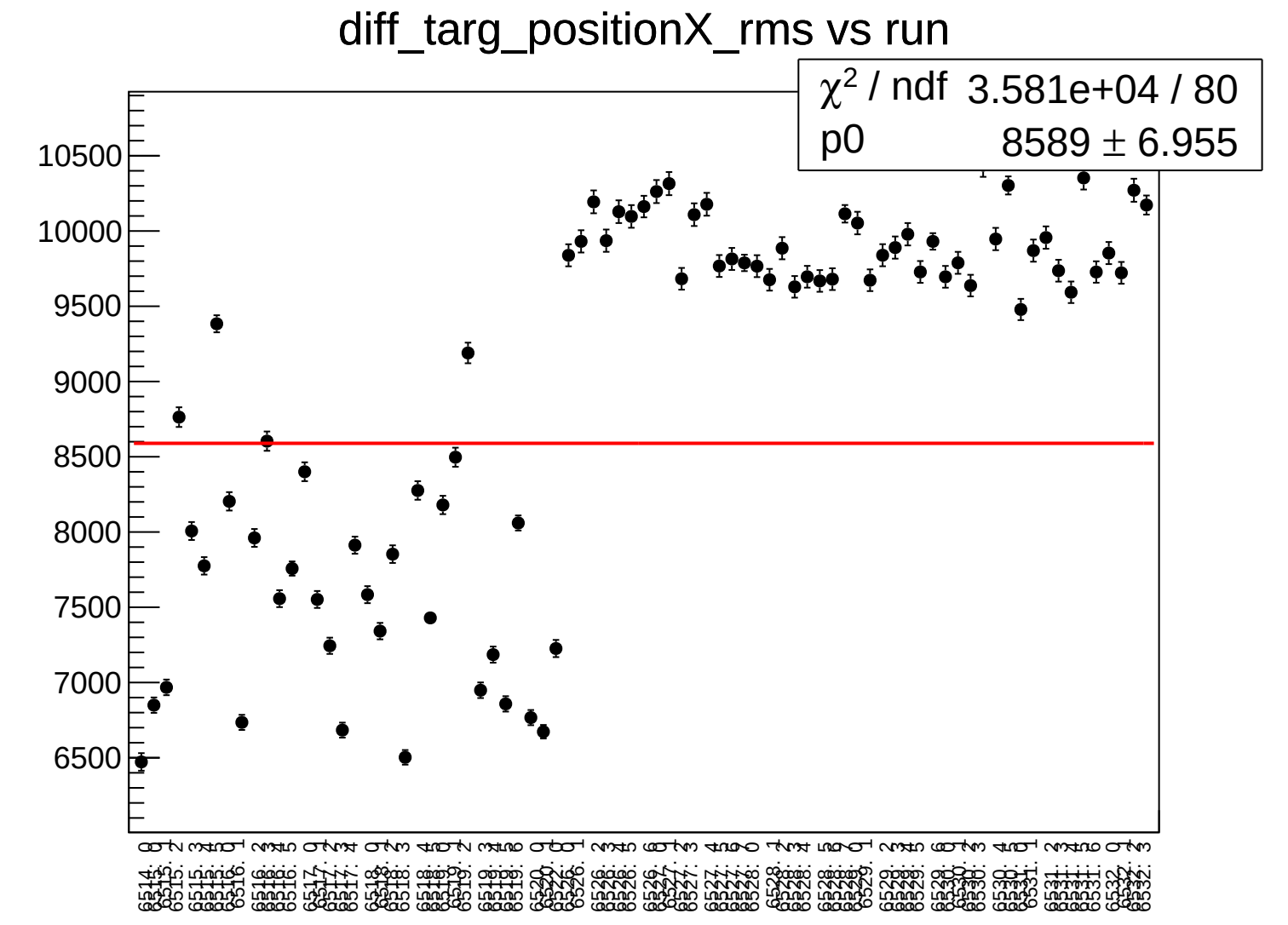

diff_dispE_bpm12X_mean vs run
χ² / ndf 93.16 / 80
p0 0.008611 ± 0.008637
pull
Entries 81
Mean −35.63
Std Dev 0

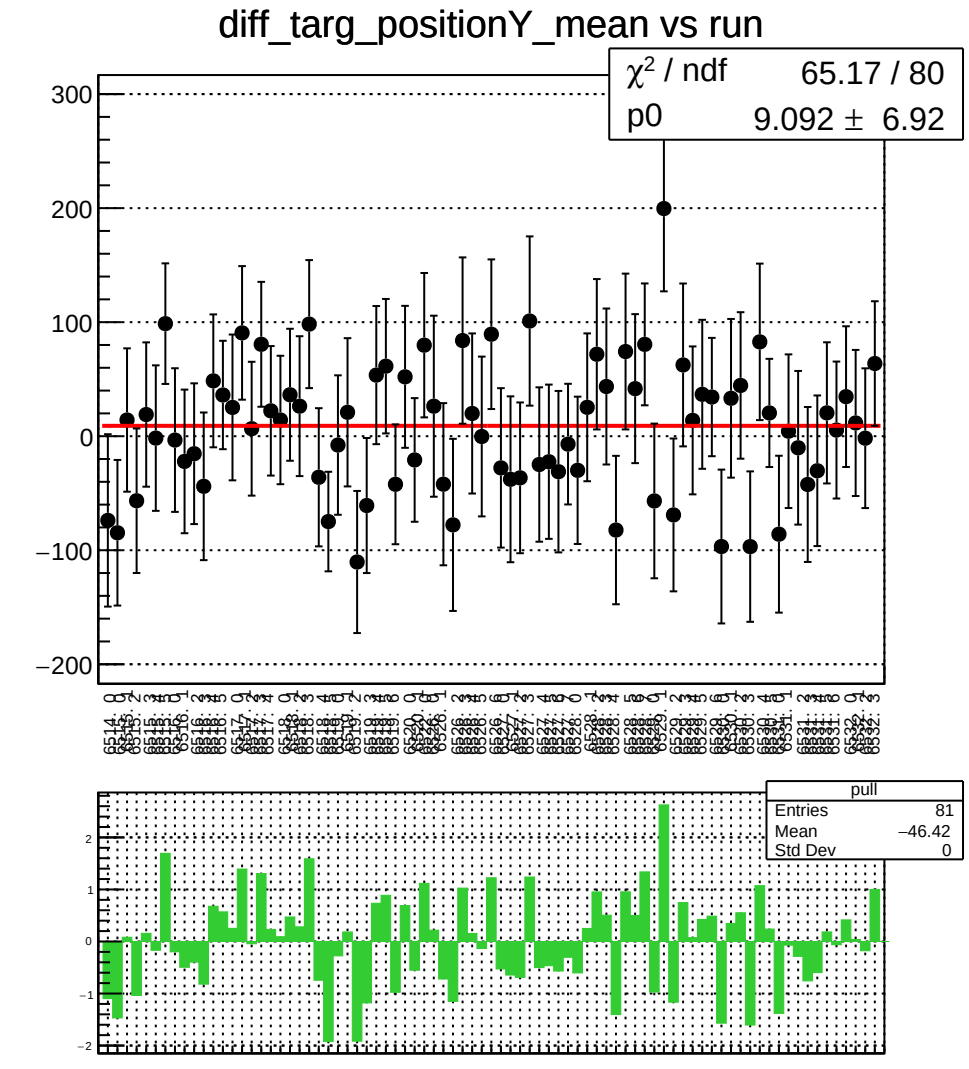

pull1D
Entries 81
Mean −0.01706
Std Dev 1.072

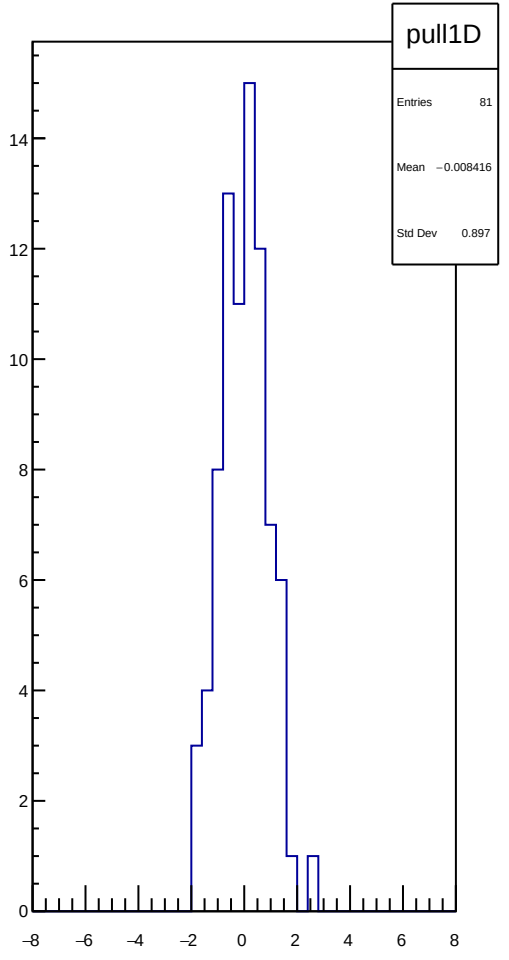

diff_dispE_bpm12X_rms vs run
χ^2 / ndf 3.986e+04 / 80
p0 7.532 ± 0.006107
10
9
8
7
6

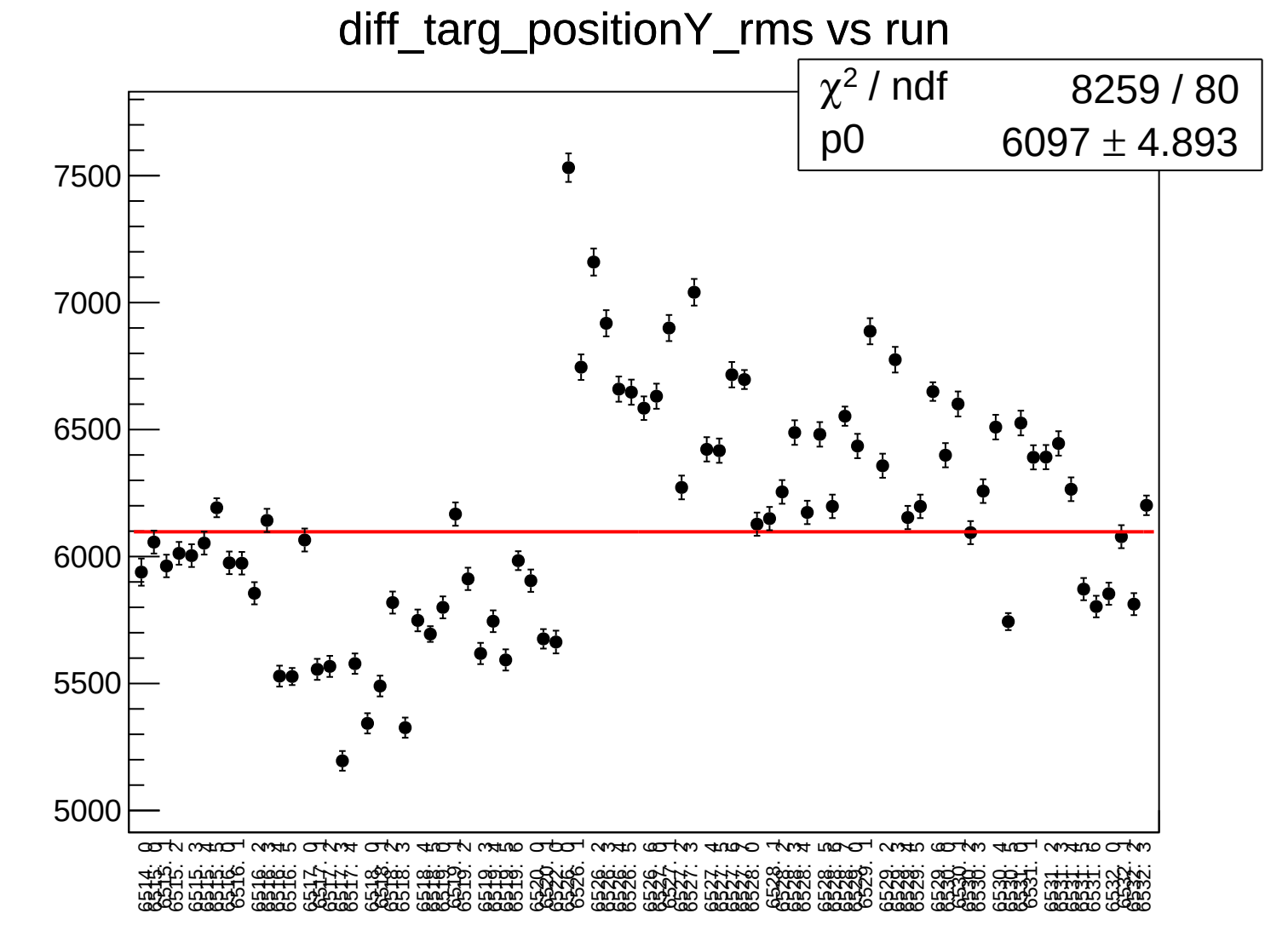

diff_targ_positionX_mean vs run
χ^2 / ndf 73.13 / 80
p0 5.384 ± 9.836
pull
Entries 81
Mean −616.1
Std Dev 0

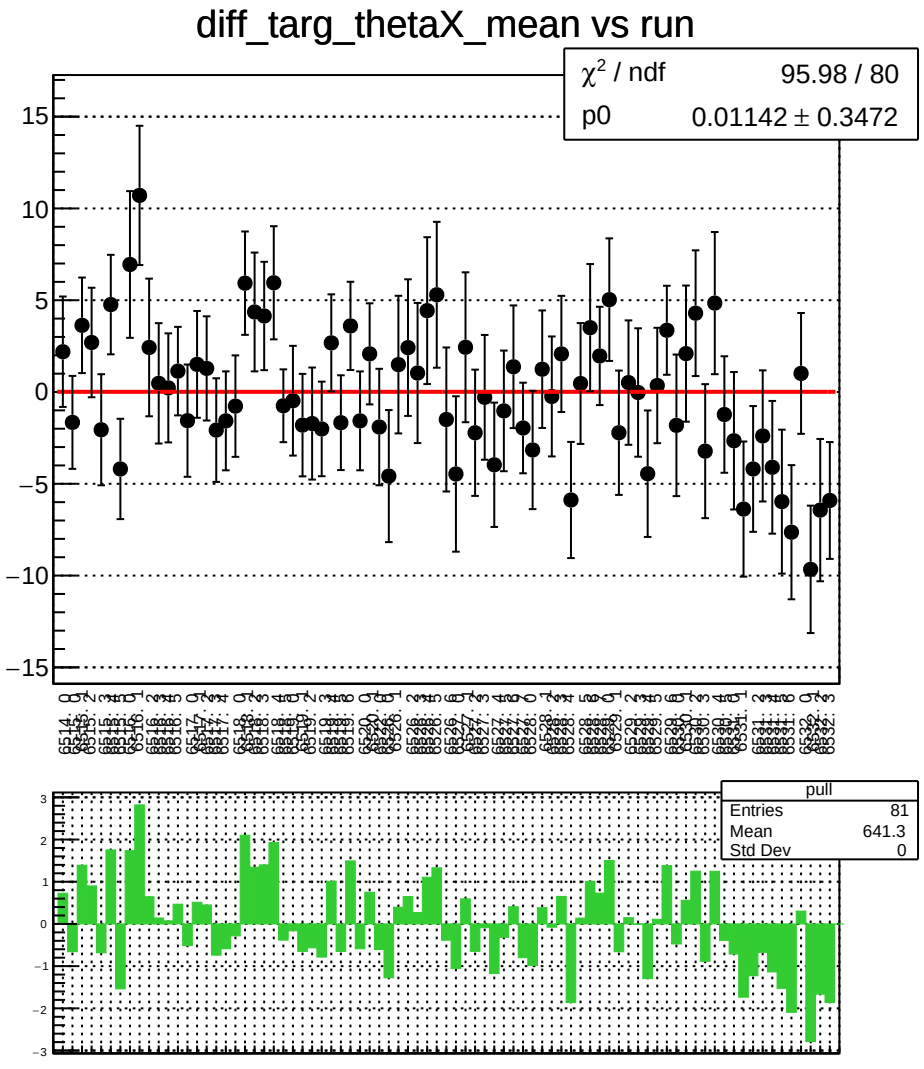

pull1D
Entries 81
Mean −0.005407
Std Dev 0.9502

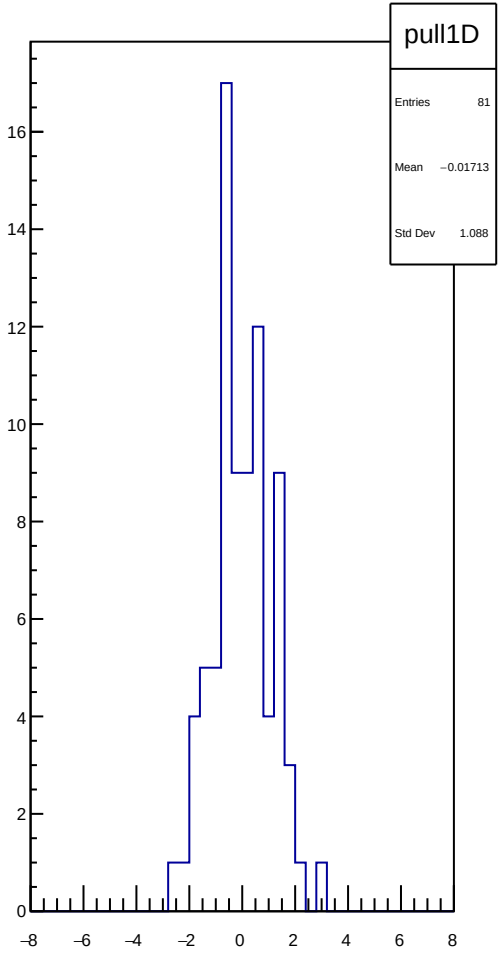

diff_targ_positionX_rms vs run
χ² / ndf 3.581e+04 / 80
p0 8589 ± 6.955
10500
10000
9500
9000
8500
8000
7500
7000
6500

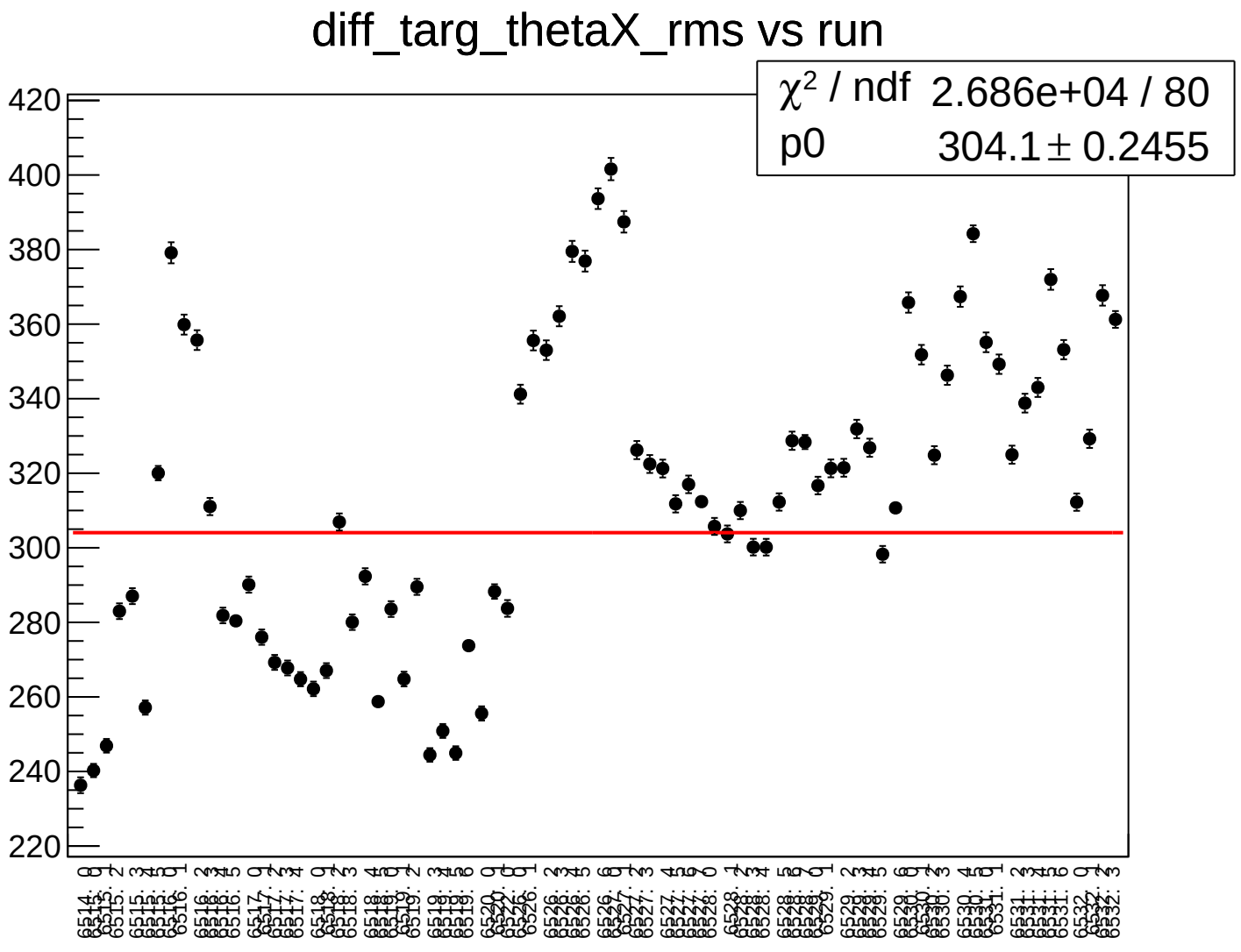

diff_targ_positionY_mean vs run
χ² / ndf 65.17 / 80
p0 9.092 ± 6.92
pull
Entries 81
Mean −46.42
Std Dev 0

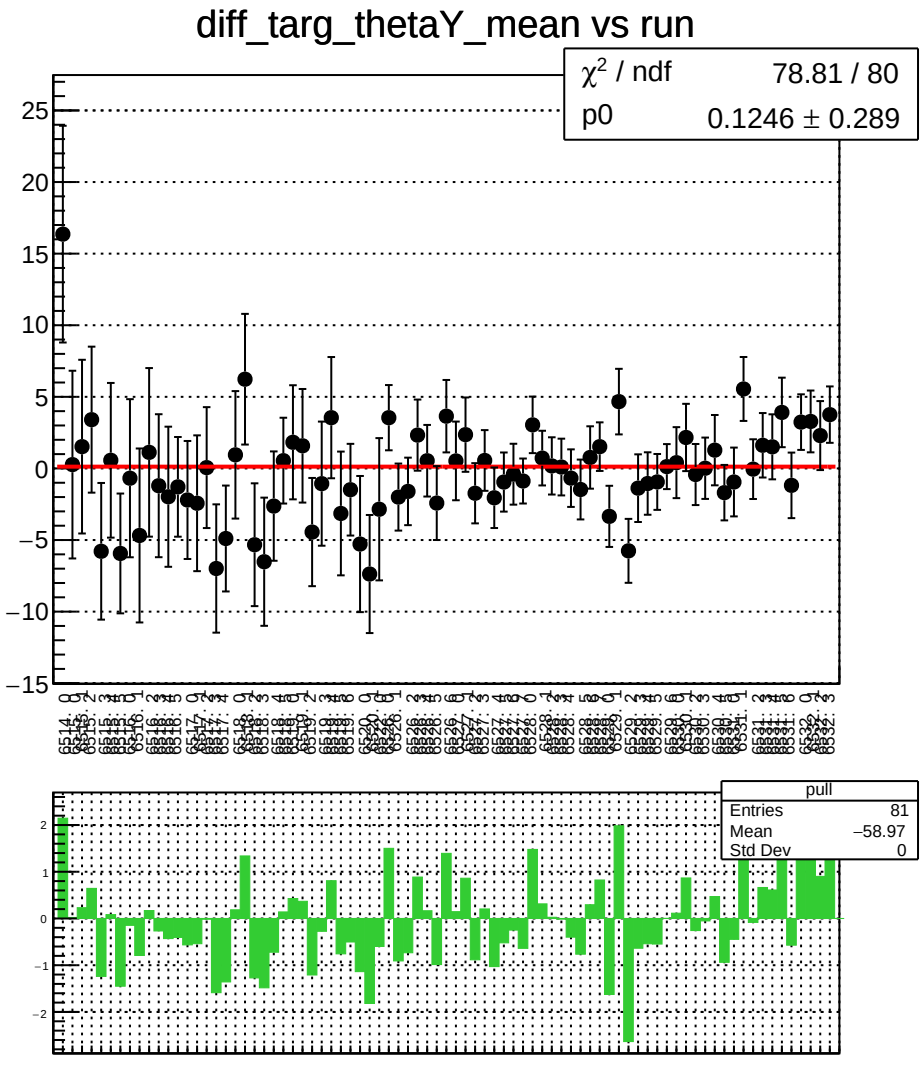

pull1D
Entries 81
Mean −0.008416
Std Dev 0.897

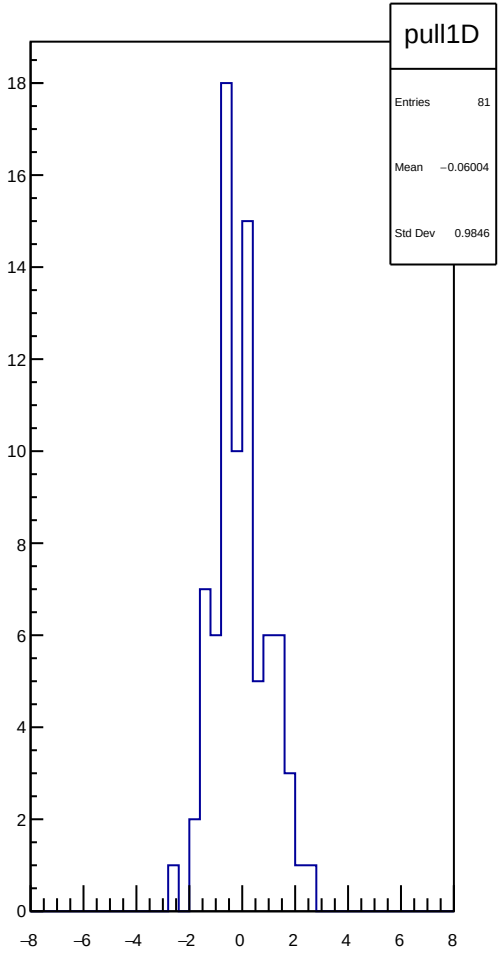

diff_targ_positionY_rms vs run
χ² / ndf 8259 / 80
p0 6097 ± 4.893
7500
7000
6500
6000
5500
5000

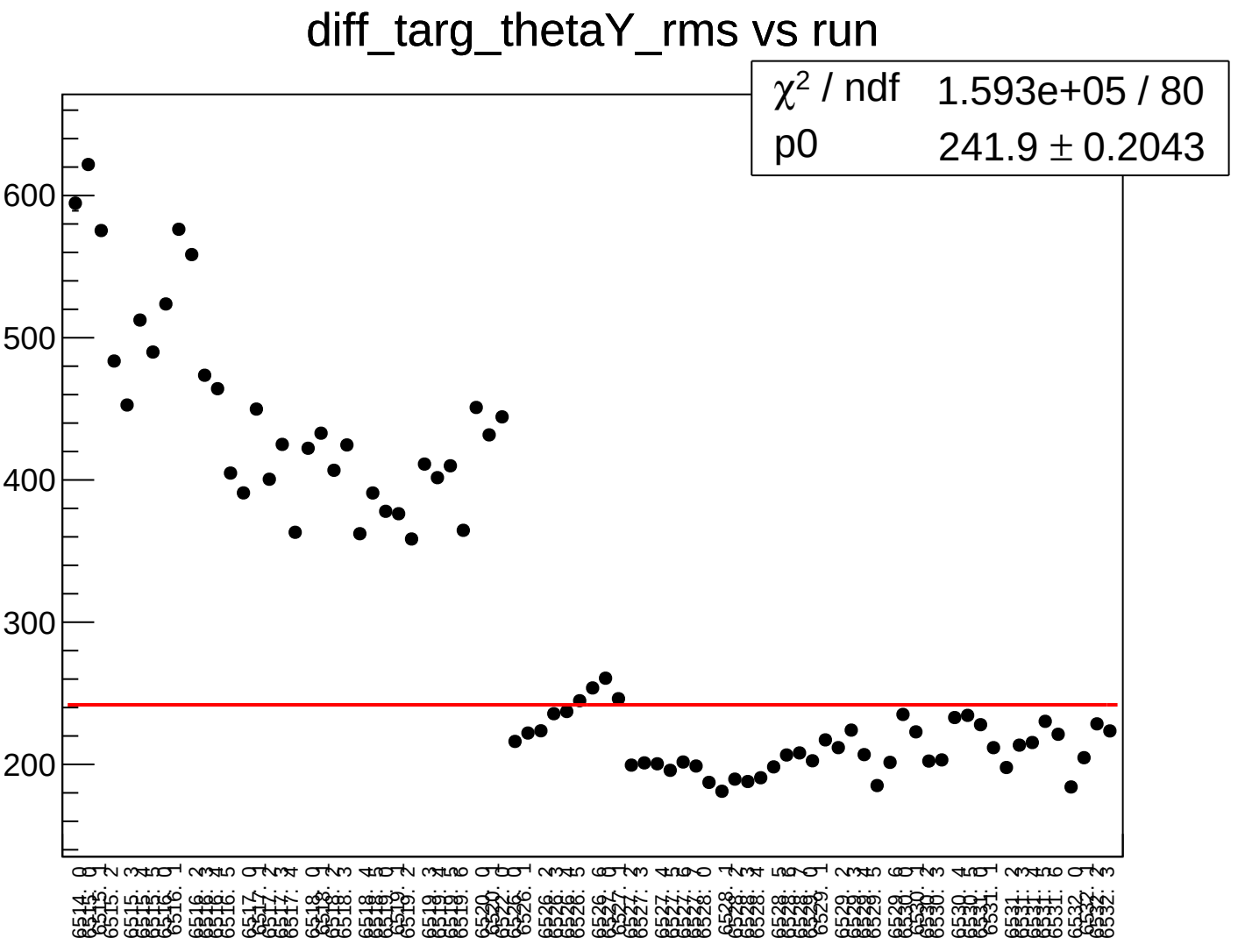

diff_targ_thetaX_mean vs run
χ² / ndf 95.98 / 80
p0 0.01142 ± 0.3472
pull
Entries 81
Mean 641.3
Std Dev 0

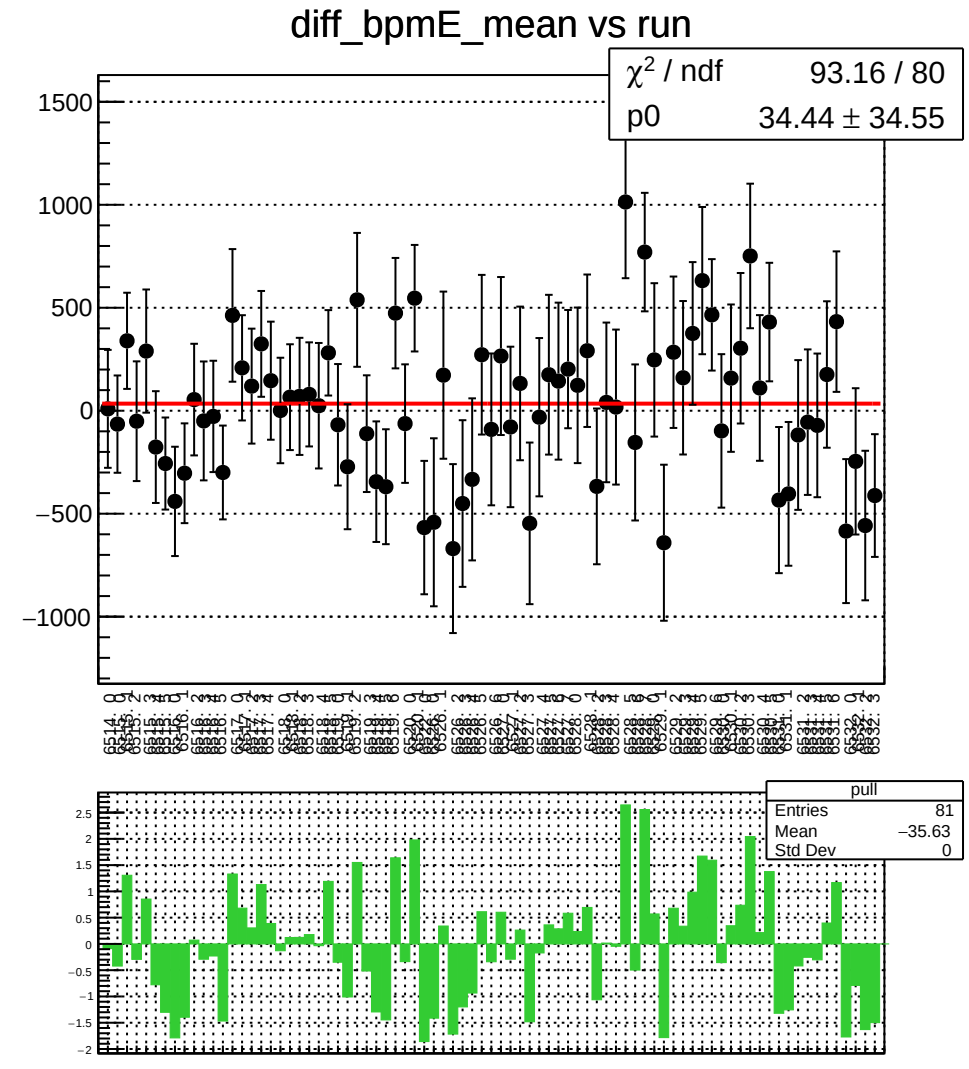

pull1D
Entries 81
Mean −0.01713
Std Dev 1.088

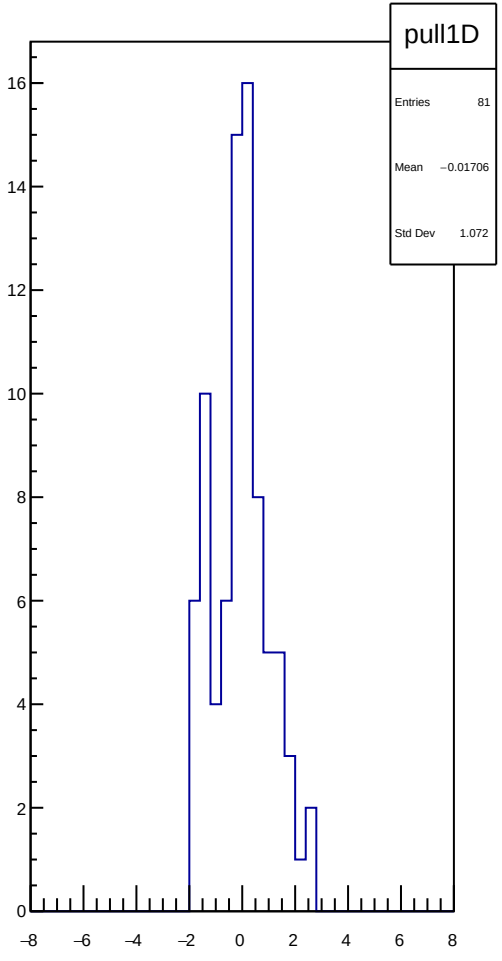

diff_targ_thetaX_rms vs run
χ² / ndf 2.686e+04 / 80
p0 304.1 ± 0.2455
420
400
380
360
340
320
300
280
260
240
220

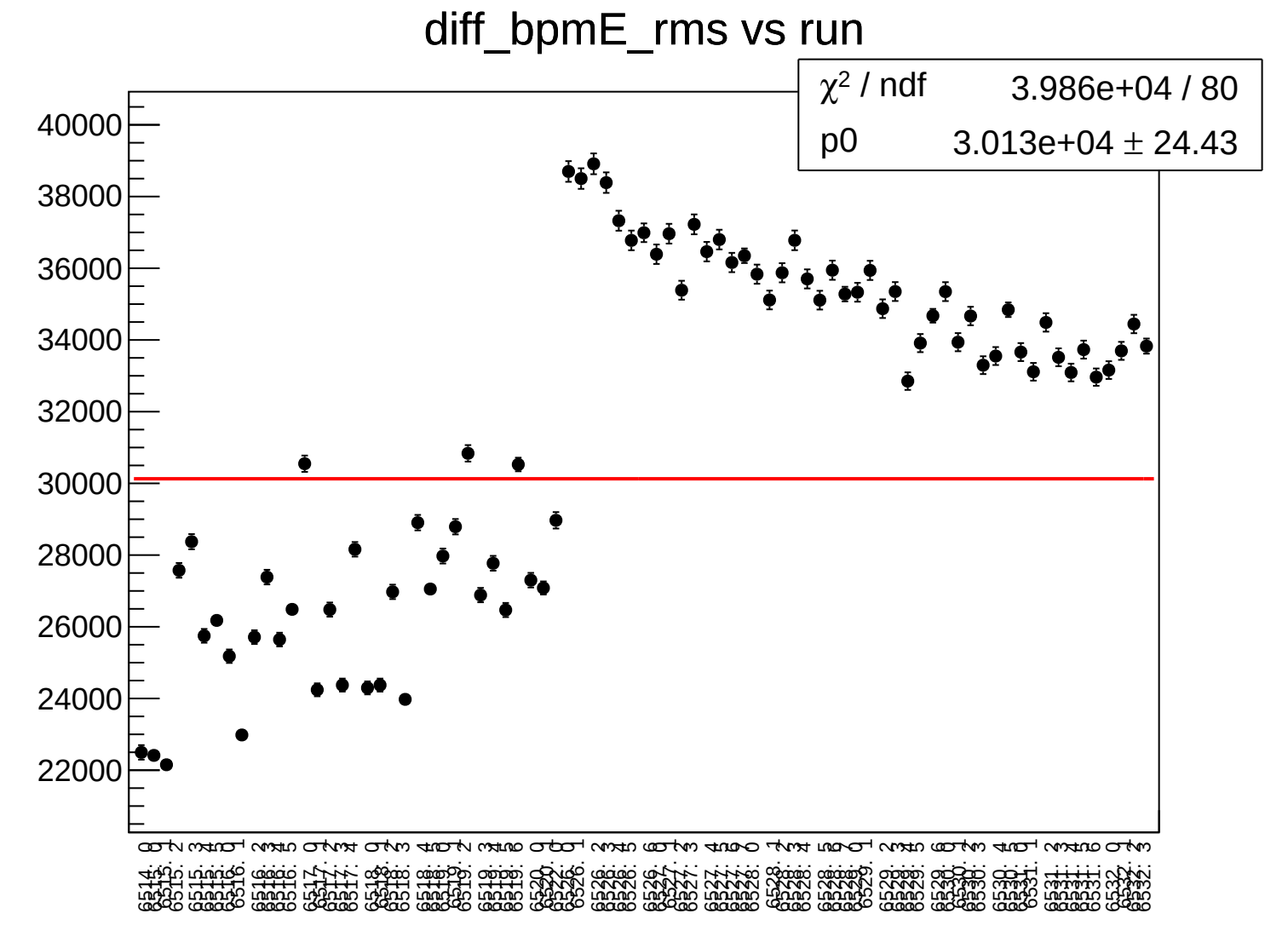

diff_targ_thetaY_mean vs run
χ² / ndf 78.81 / 80
p0 0.1246 ± 0.289
pull
Entries 81
Mean −58.97
Std Dev 0

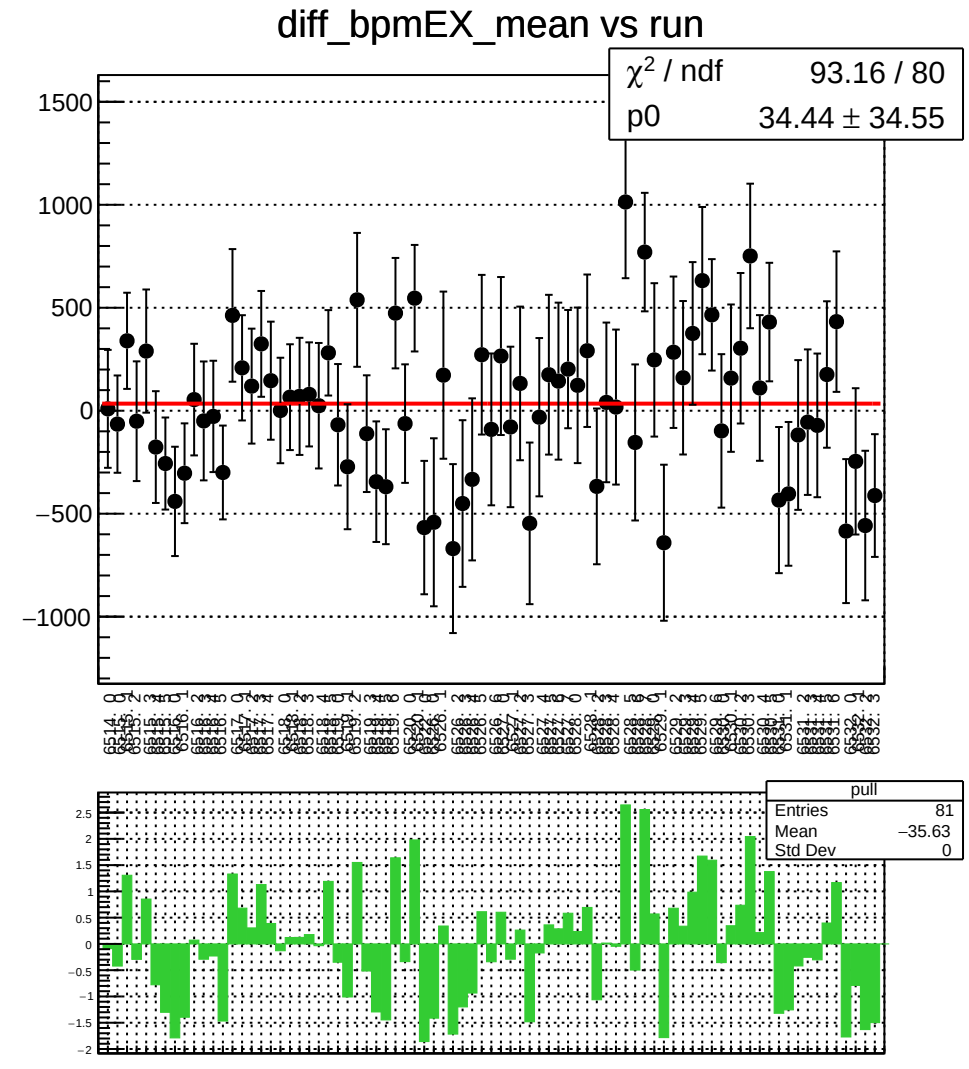

pull1D
Entries 81
Mean −0.06004
Std Dev 0.9846

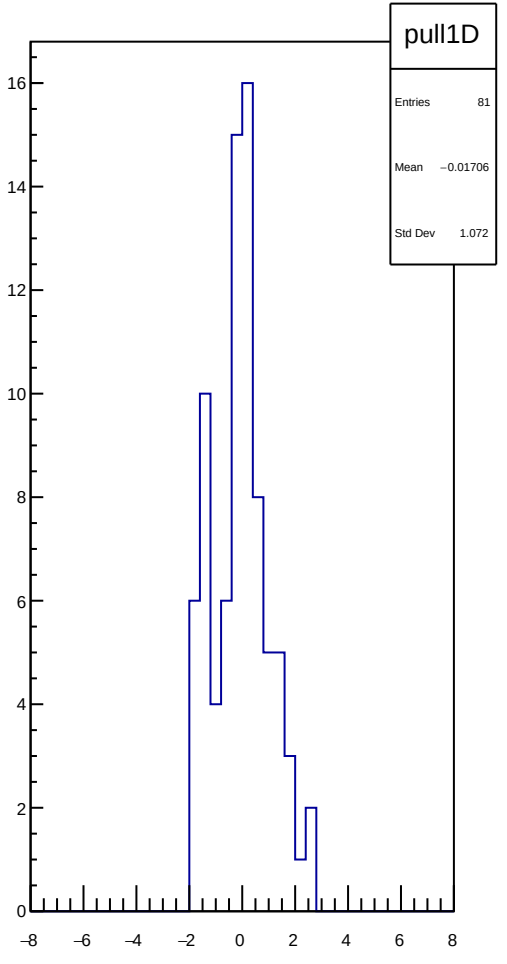

diff_targ_thetaY_rms vs run
χ² / ndf 1.593e+05 / 80
p0 241.9 ± 0.2043
600
500
400
300
200

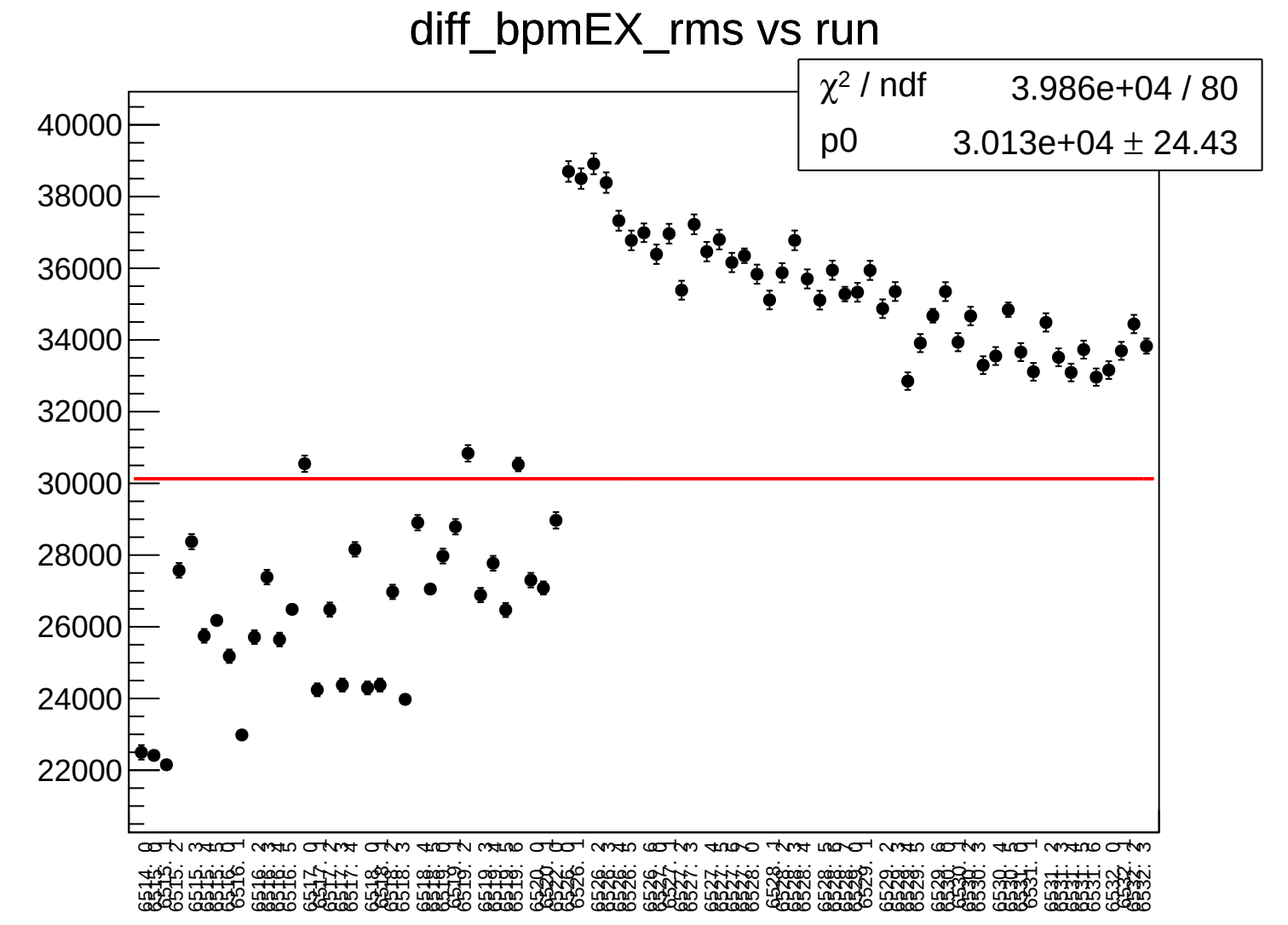

diff_bpmE_mean vs run
χ^2 / ndf 93.16 / 80
p0 34.44 ± 34.55
pull
Entries 81
Mean −35.63
Std Dev 0

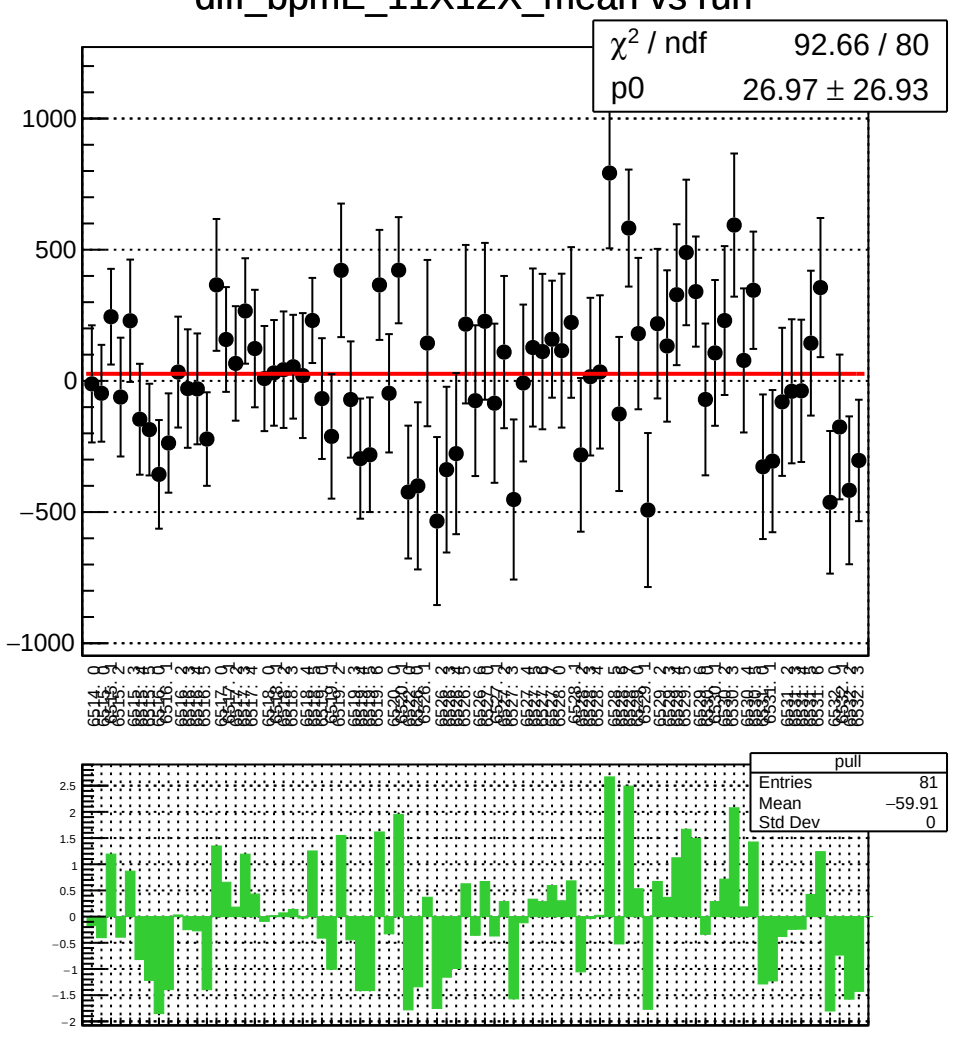

pull1D
Entries 81
Mean −0.01706
Std Dev 1.072

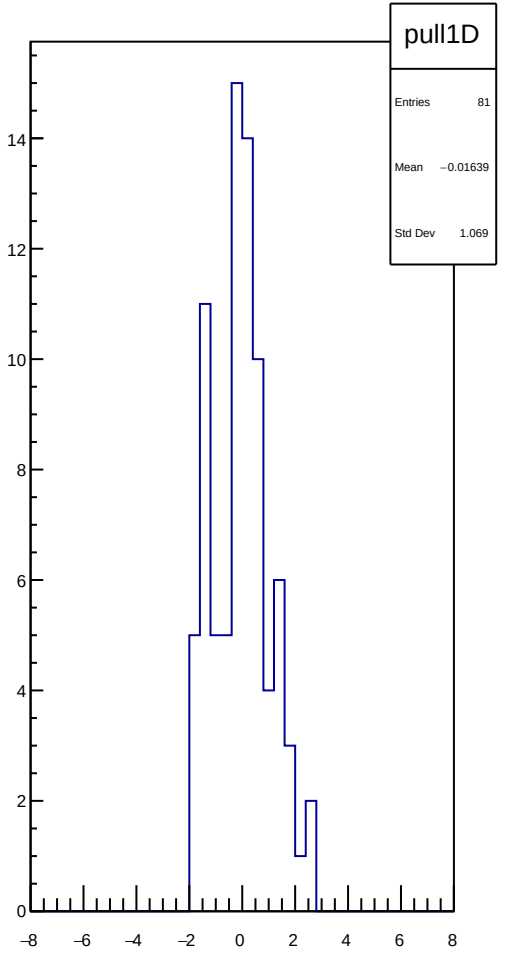

diff_bpmE_rms vs run
χ² / ndf 3.986e+04 / 80
p0 3.013e+04 ± 24.43
40000
38000
36000
34000
32000
30000
28000
26000
24000
22000

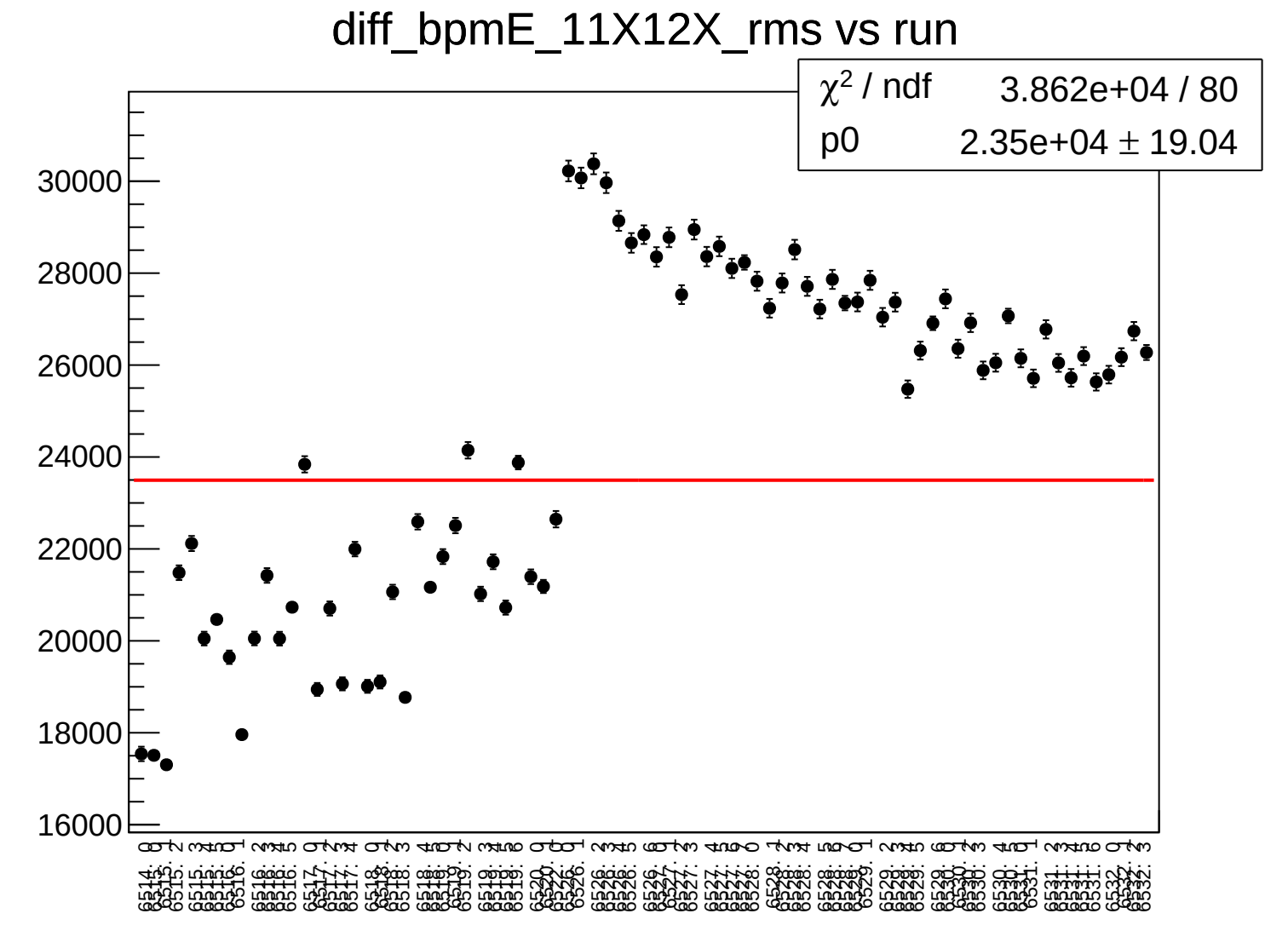

diff_bpmEX_mean vs run
χ^2 / ndf 93.16 / 80
p0 34.44 ± 34.55
1500
1000
500
0
−500
−1000
pull
Entries 81
Mean −35.63
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

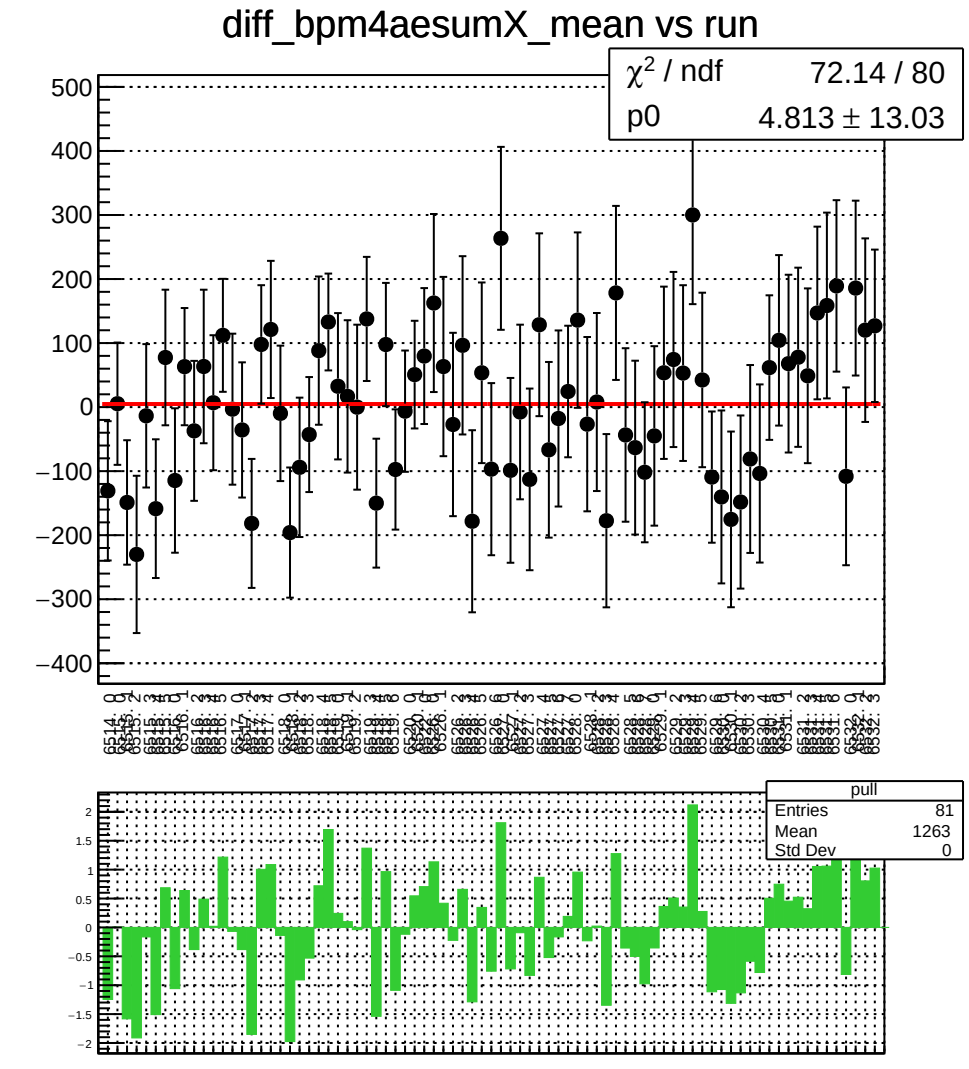

pull1D
Entries 81
Mean −0.01706
Std Dev 1.072
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

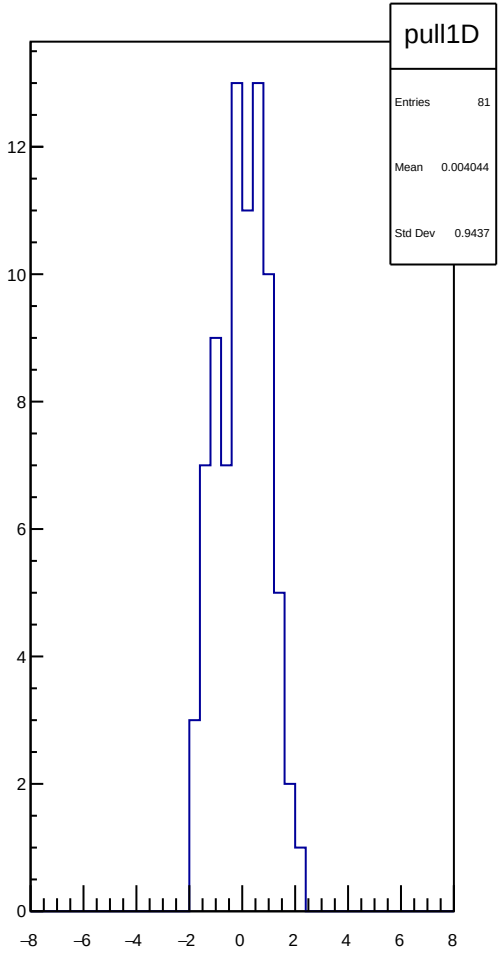

diff_bpmEX_rms vs run
χ² / ndf 3.986e+04 / 80
p0 3.013e+04 ± 24.43
40000
38000
36000
34000
32000
30000
28000
26000
24000
22000

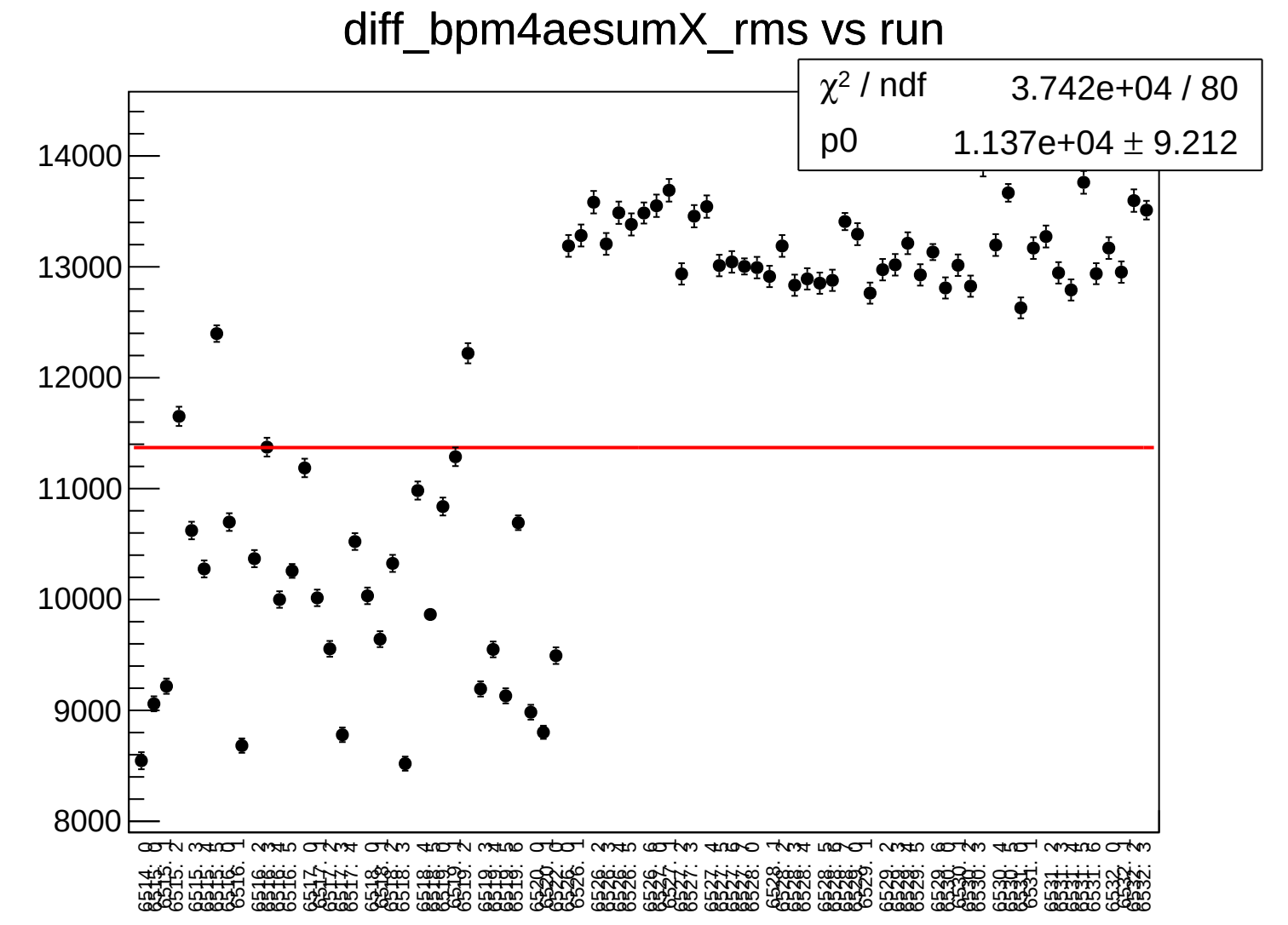

diff_bpmE_11X12X_mean vs run
χ² / ndf 92.66 / 80
p0 26.97 ± 26.93
1000
500
0
−500
−1000
pull
Entries 81
Mean −59.91
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

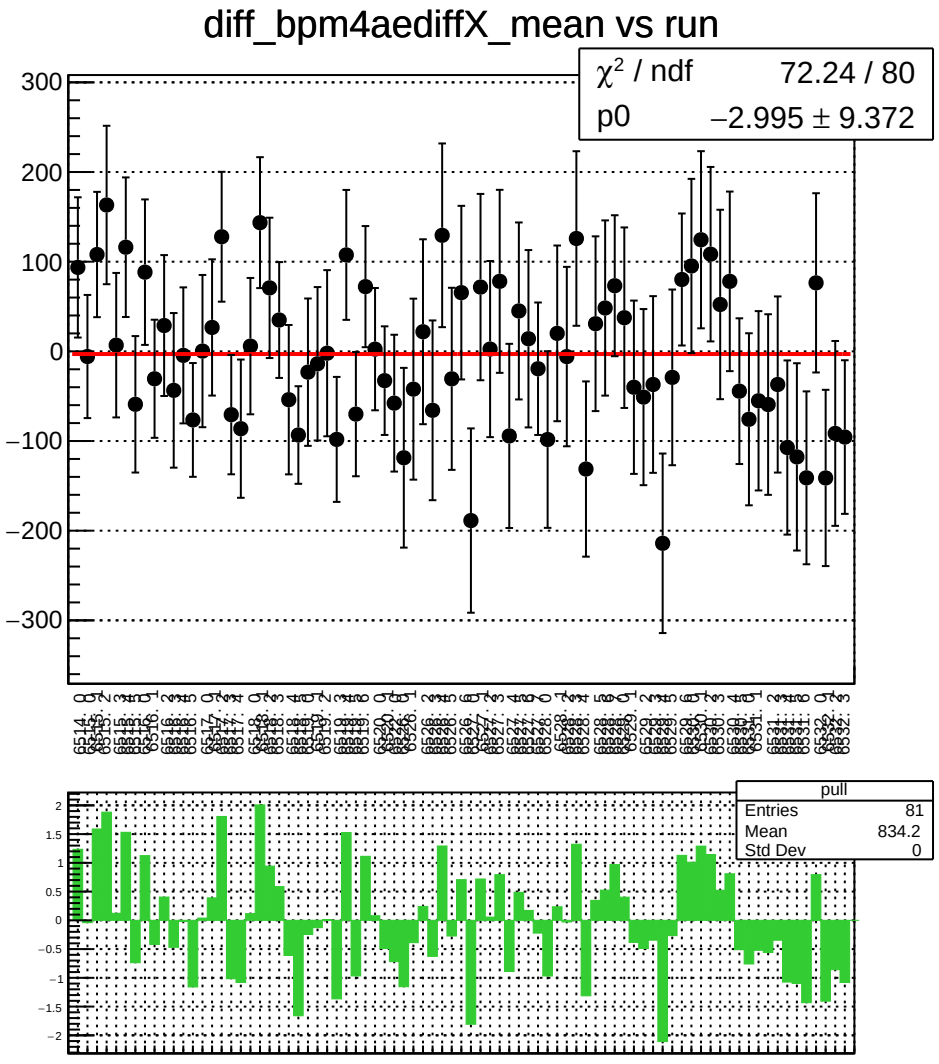

pull1D
Entries 81
Mean −0.01639
Std Dev 1.069
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

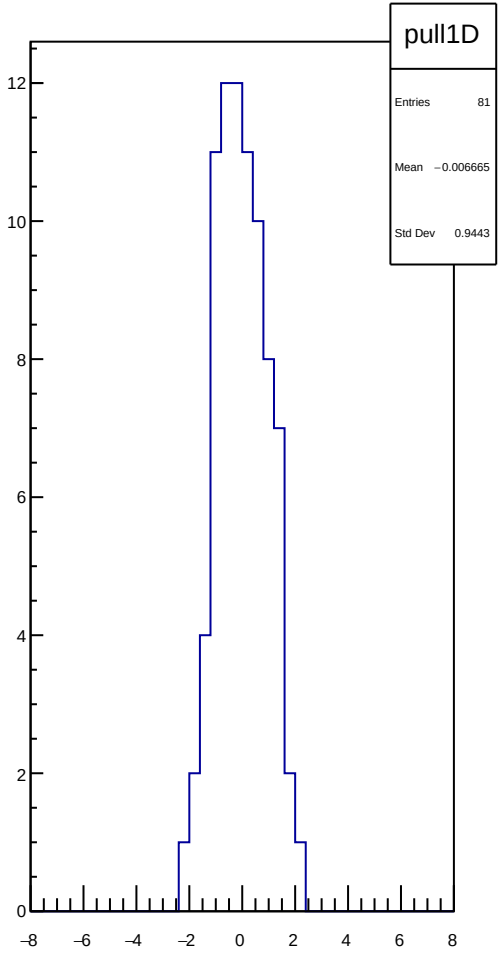

diff_bpmE_11X12X_rms vs run
χ^2 / ndf 3.862e+04 / 80
p0 2.35e+04 ± 19.04
30000
28000
26000
24000
22000
20000
18000
16000

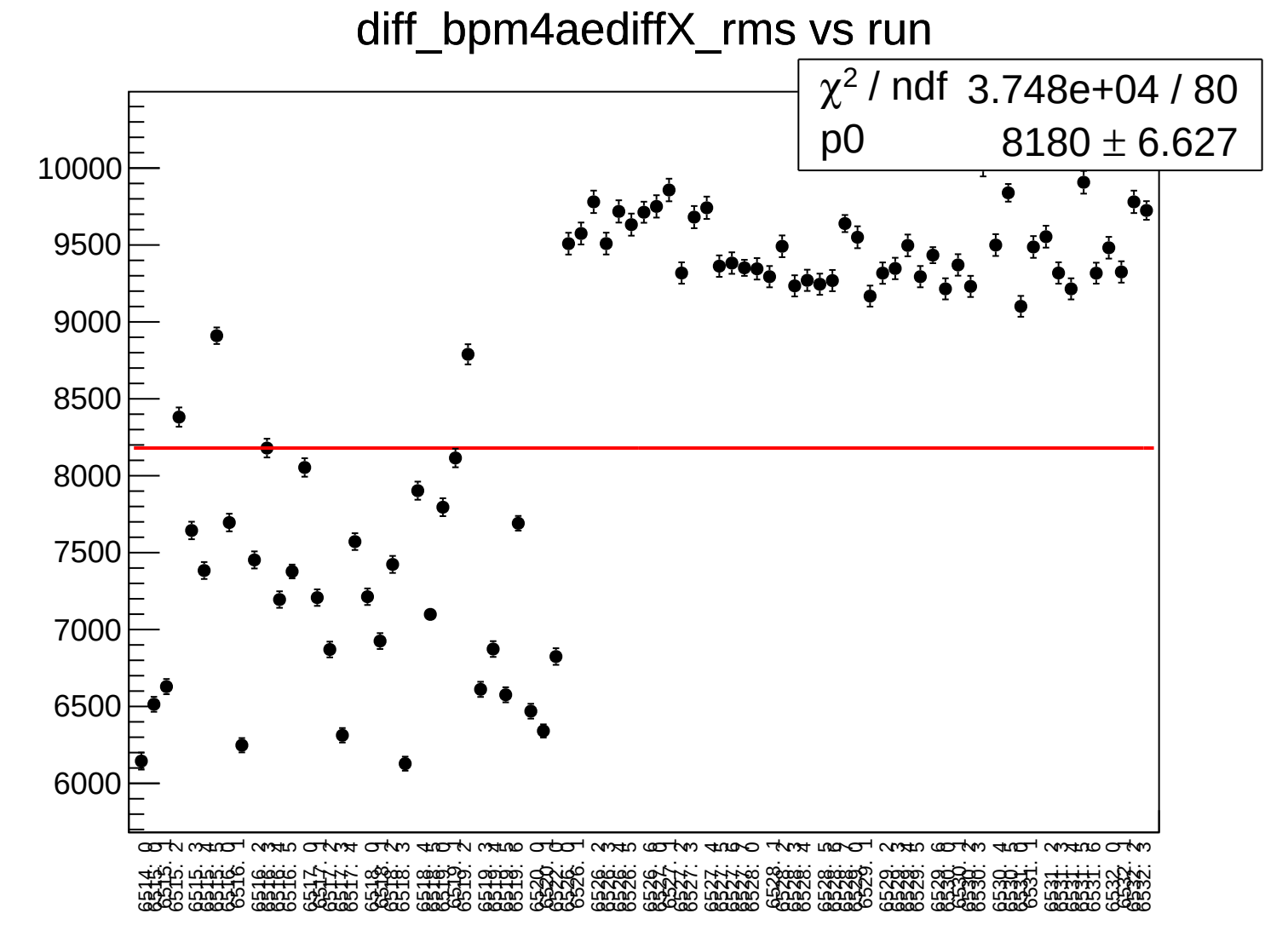

diff_bpm4aesumX_mean vs run
χ² / ndf 72.14 / 80
p0 4.813 ± 13.03
pull
Entries 81
Mean 1263
Std Dev 0

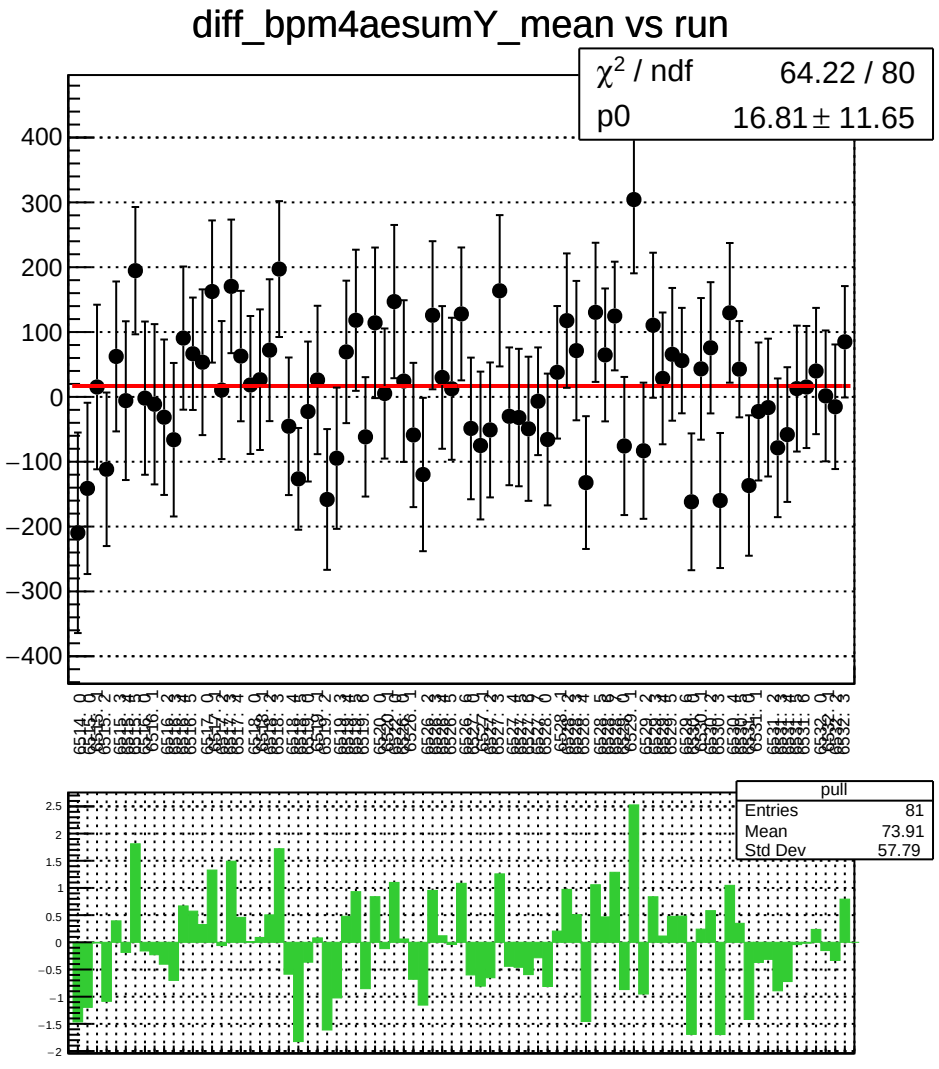

pull1D
Entries 81
Mean 0.004044
Std Dev 0.9437

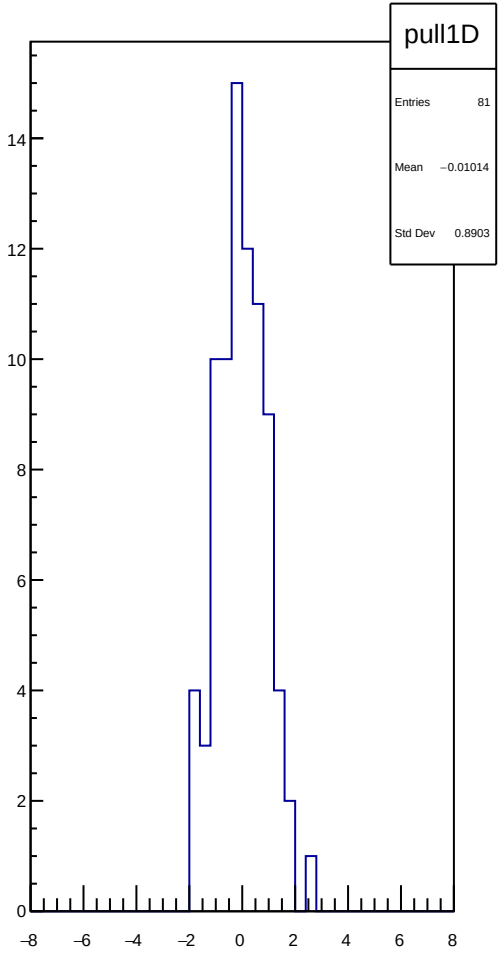

diff_bpm4aesumX_rms vs run
χ² / ndf 3.742e+04 / 80
p0 1.137e+04 ± 9.212
14000
13000
12000
11000
10000
9000
8000

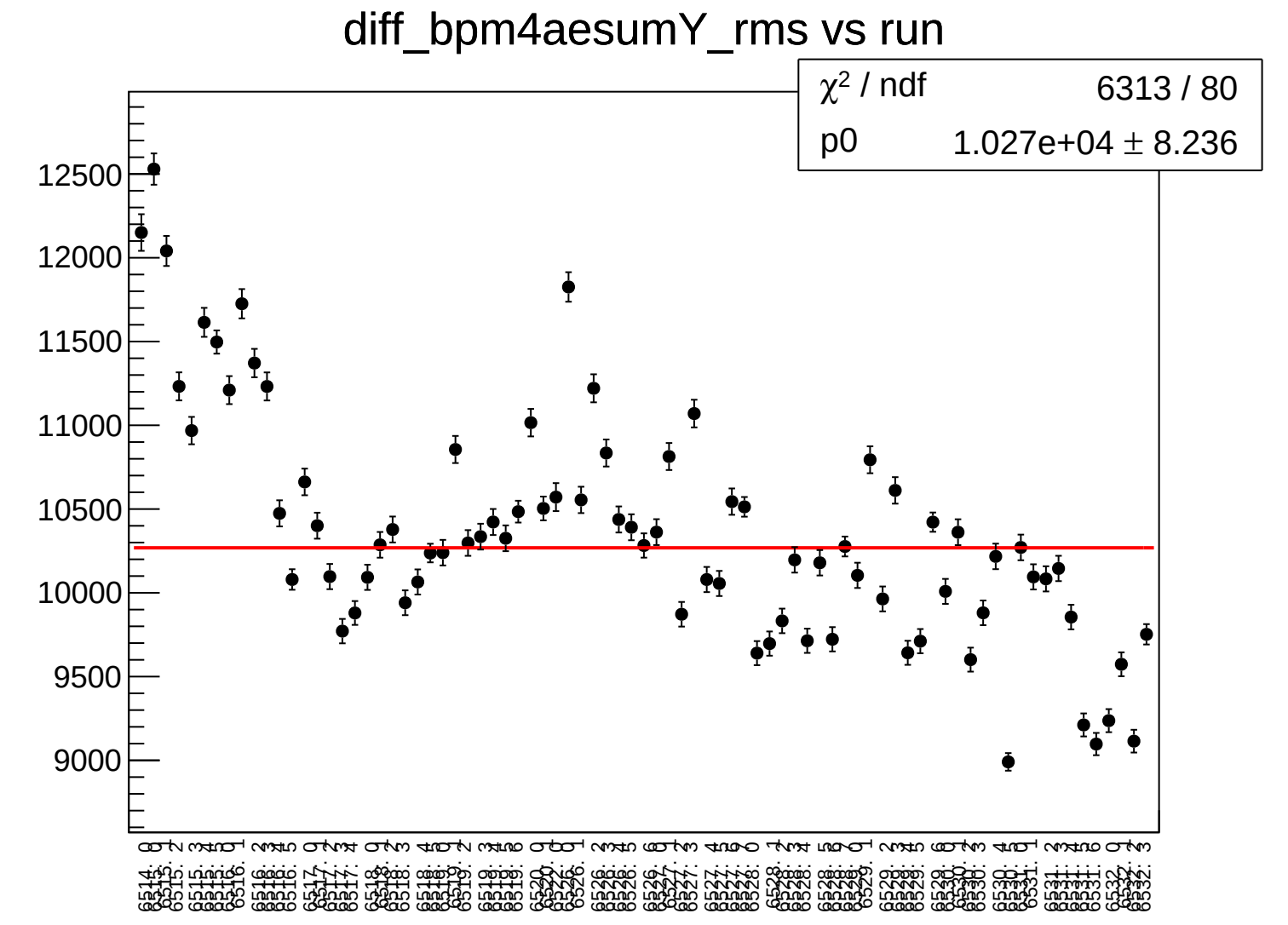

diff_bpm4aediffX_mean vs run
χ² / ndf 72.24 / 80
p0 −2.995 ± 9.372
pull
Entries 81
Mean 834.2
Std Dev 0

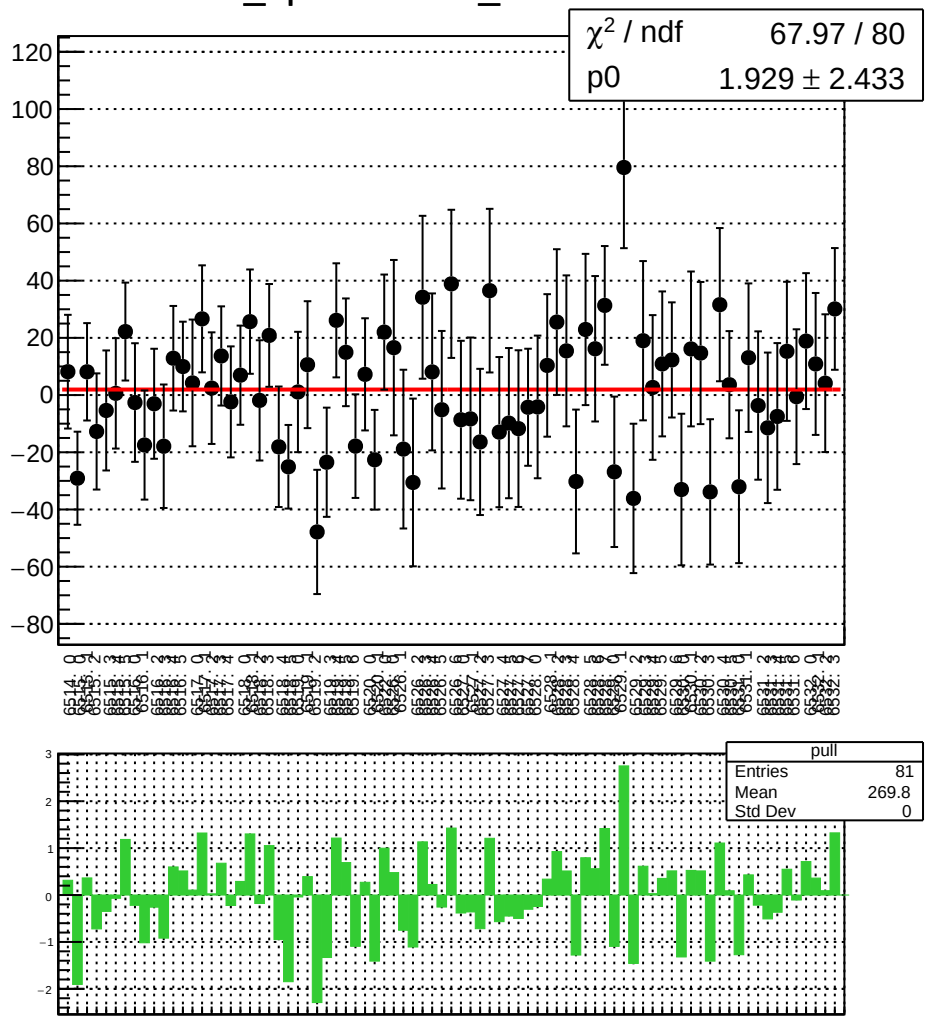

pull1D
Entries 81
Mean −0.006665
Std Dev 0.9443

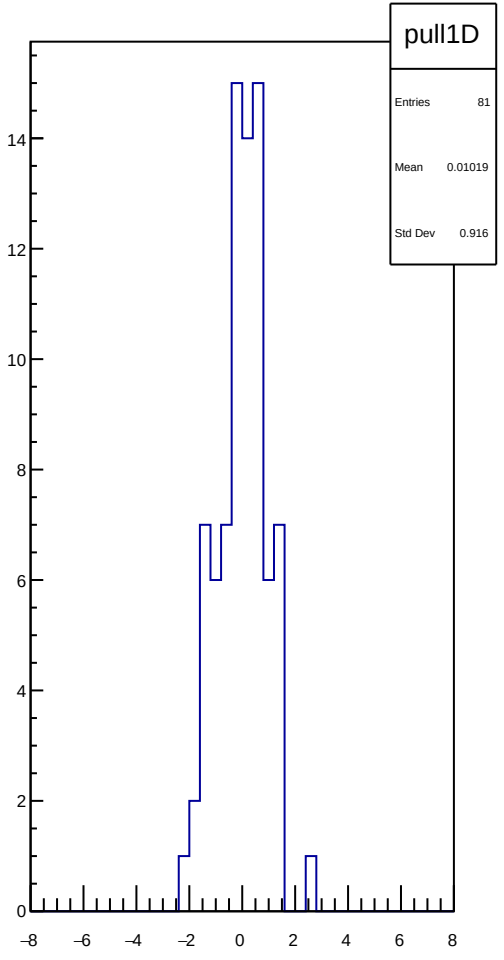

diff_bpm4aediffX_rms vs run
χ² / ndf 3.748e+04 / 80
p0 8180 ± 6.627
10000
9500
9000
8500
8000
7500
7000
6500
6000

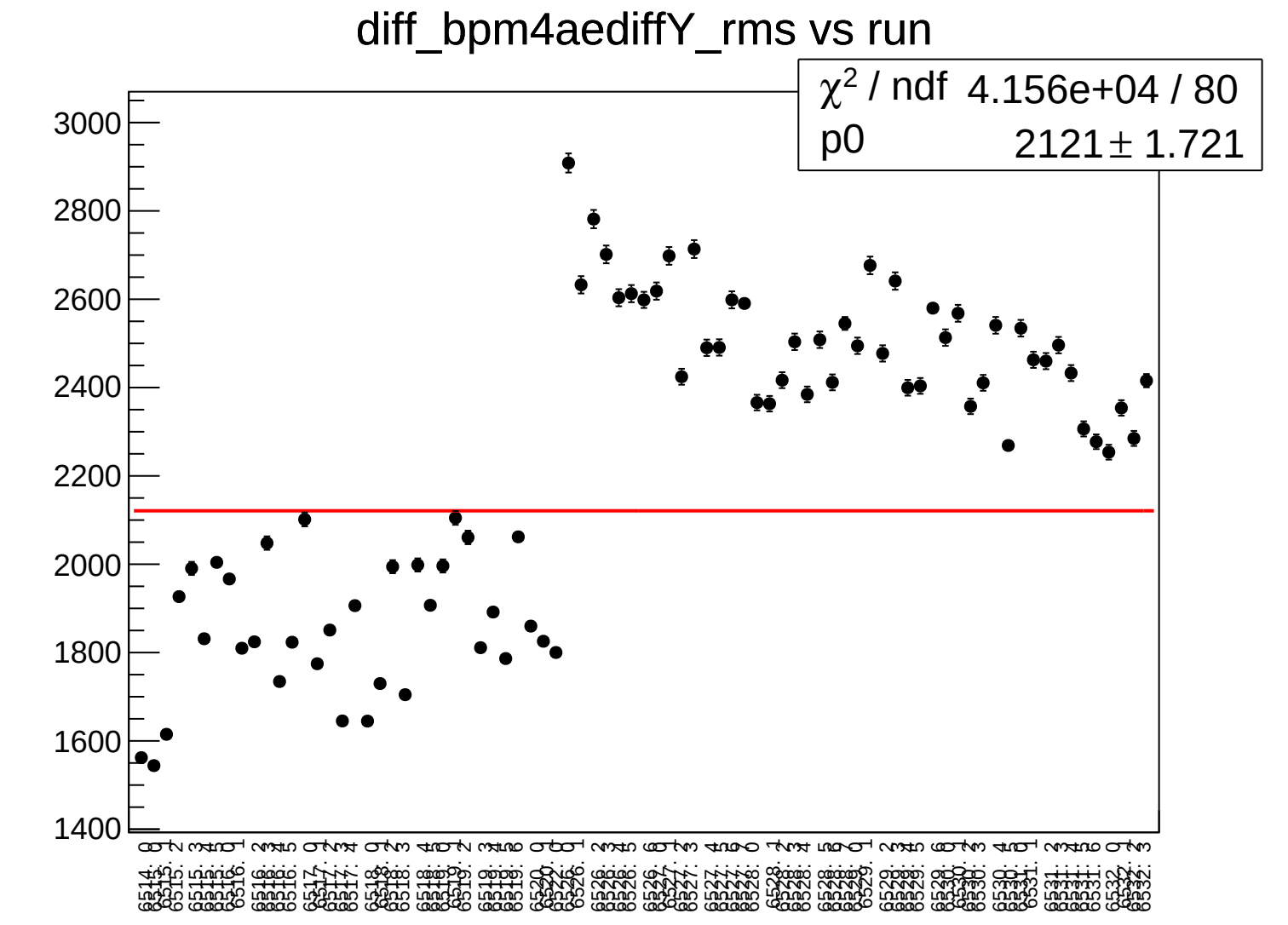

diff_bpm4aesumY_mean vs run
χ² / ndf 64.22 / 80
p0 16.81 ± 11.65
pull
Entries 81
Mean 73.91
Std Dev 57.79

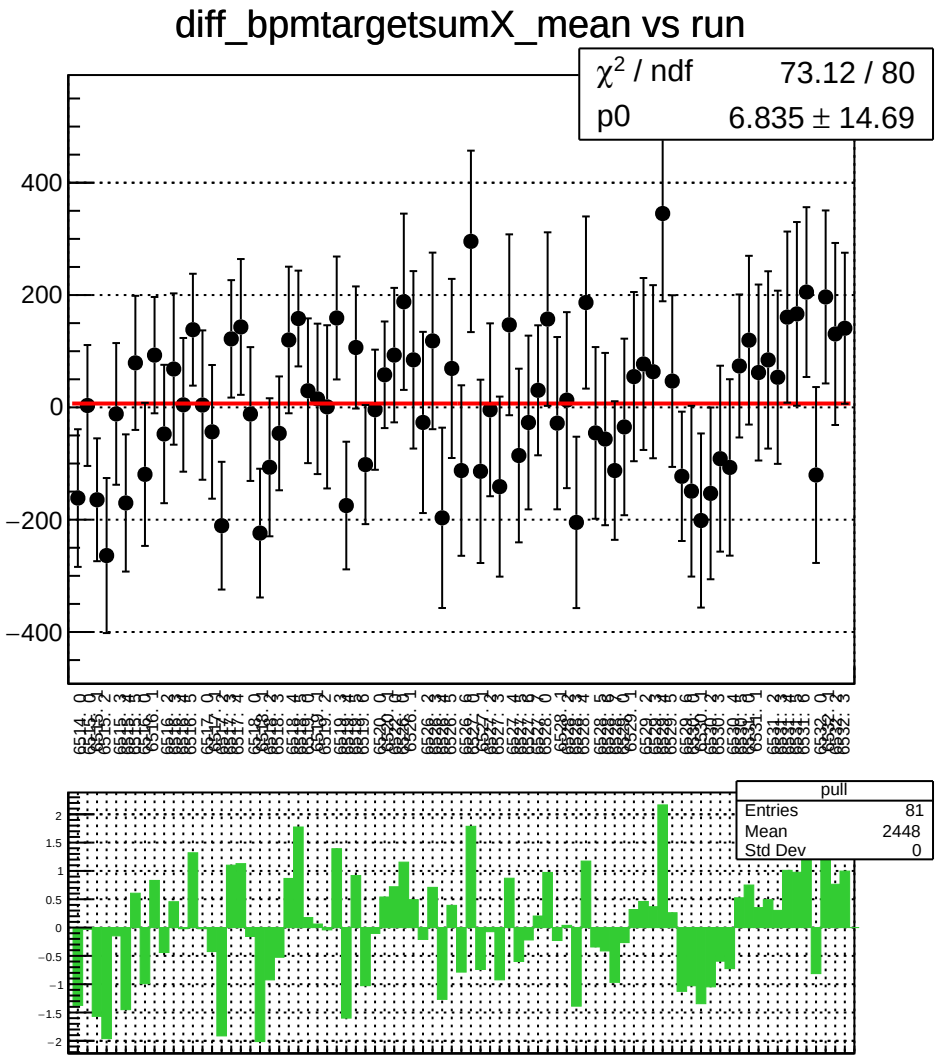

pull1D
Entries 81
Mean −0.01014
Std Dev 0.8903

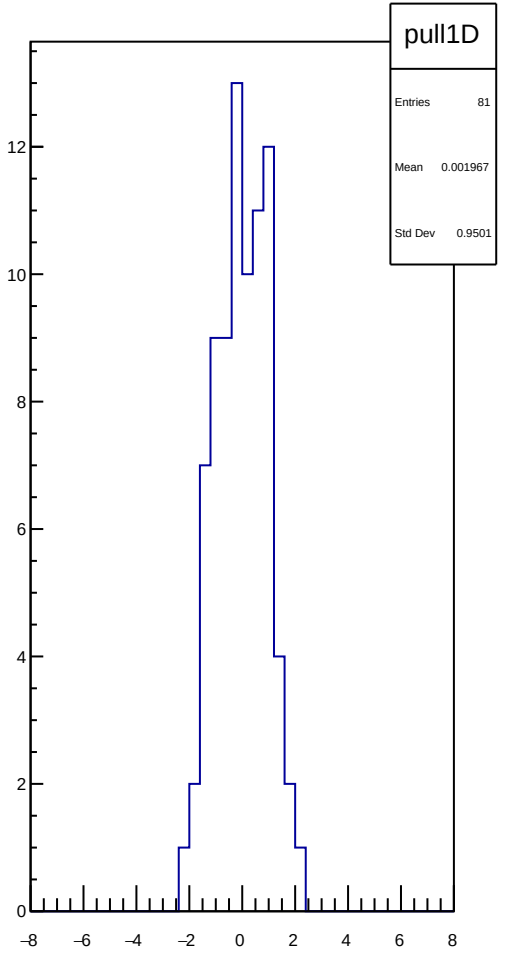

diff_bpm4aesumY_rms vs run
χ² / ndf 6313 / 80
p0 1.027e+04 ± 8.236
12500
12000
11500
11000
10500
10000
9500
9000

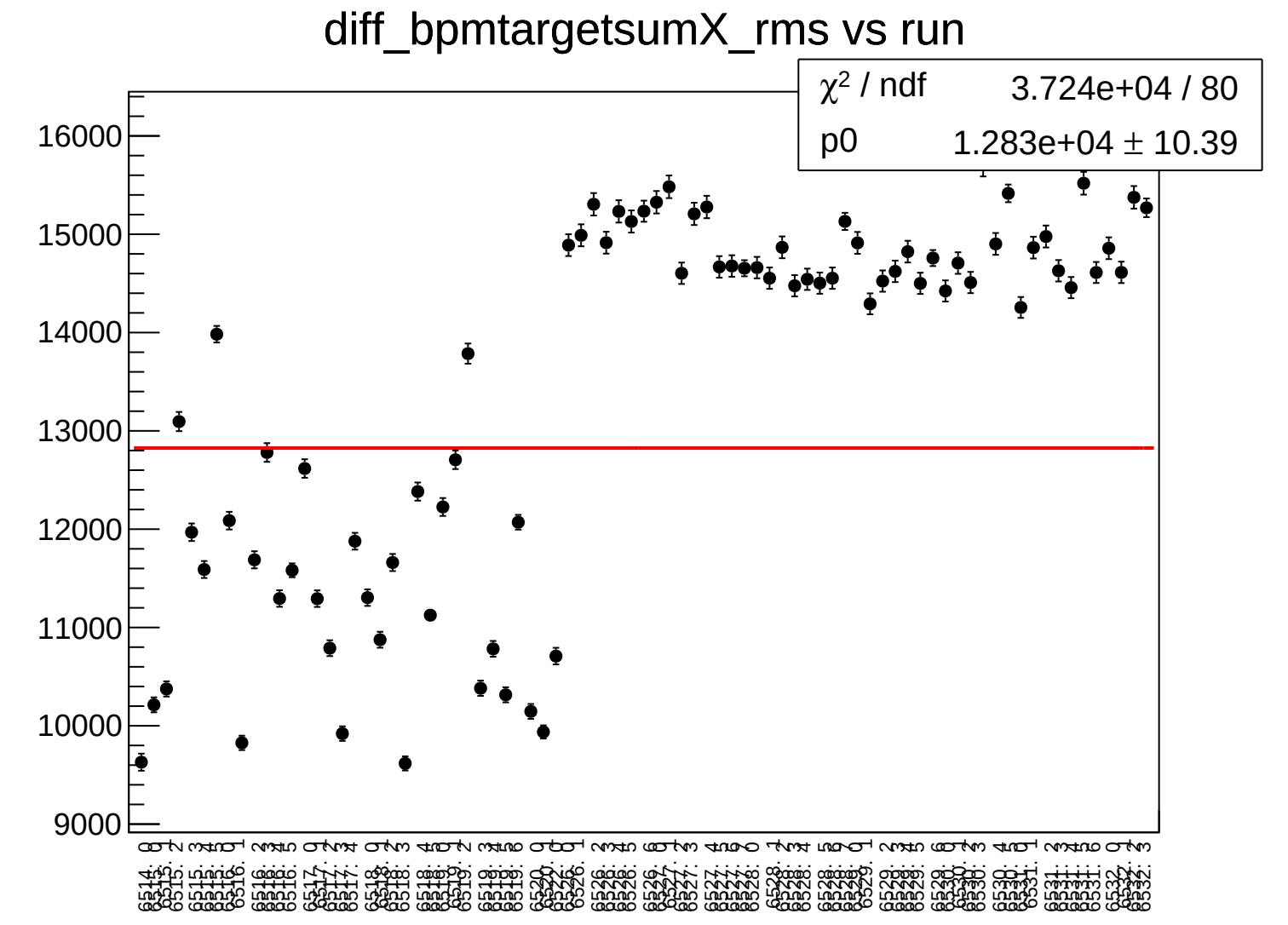

diff_bpm4aediffY_mean vs run
χ^2 / ndf 67.97 / 80
p0 1.929 ± 2.433
pull
Entries 81
Mean 269.8
Std Dev 0

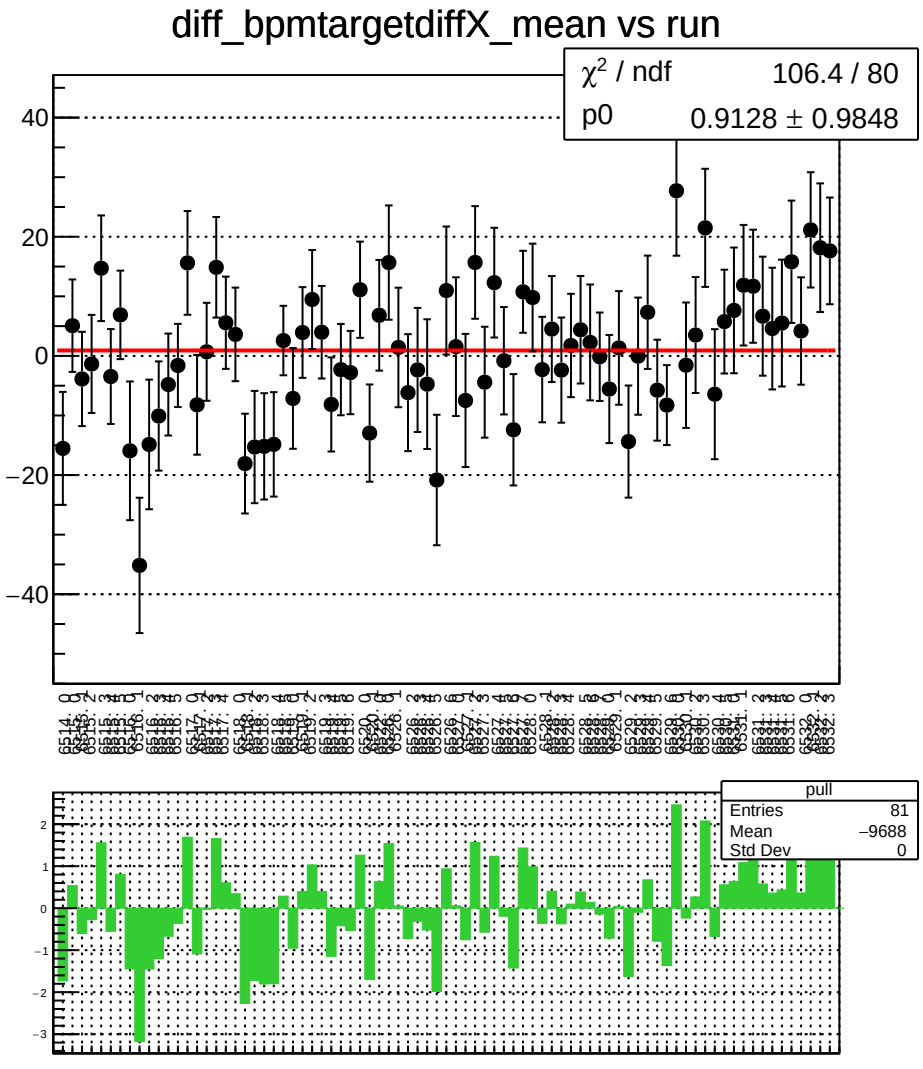

pull1D
Entries 81
Mean 0.01019
Std Dev 0.916

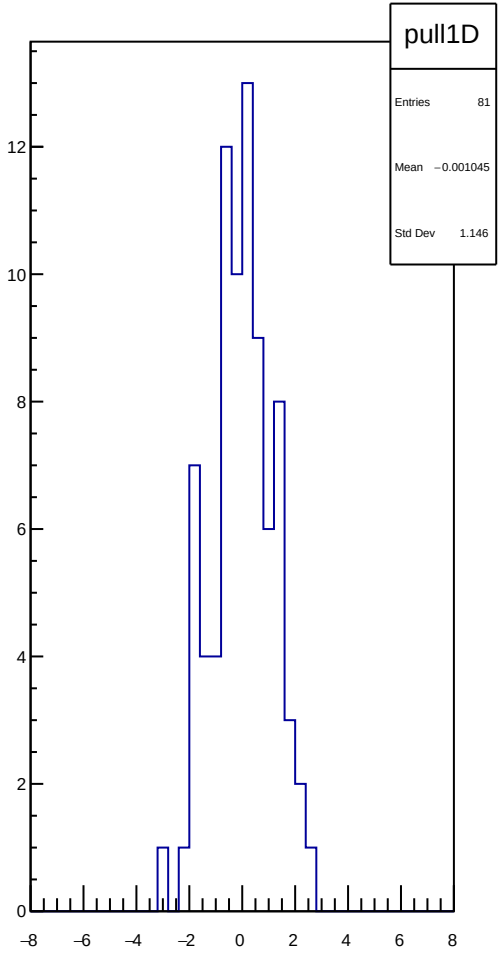

diff_bpm4aediffY_rms vs run
χ² / ndf 4.156e+04 / 80
p0 2121 ± 1.721
3000
2800
2600
2400
2200
2000
1800
1600
1400

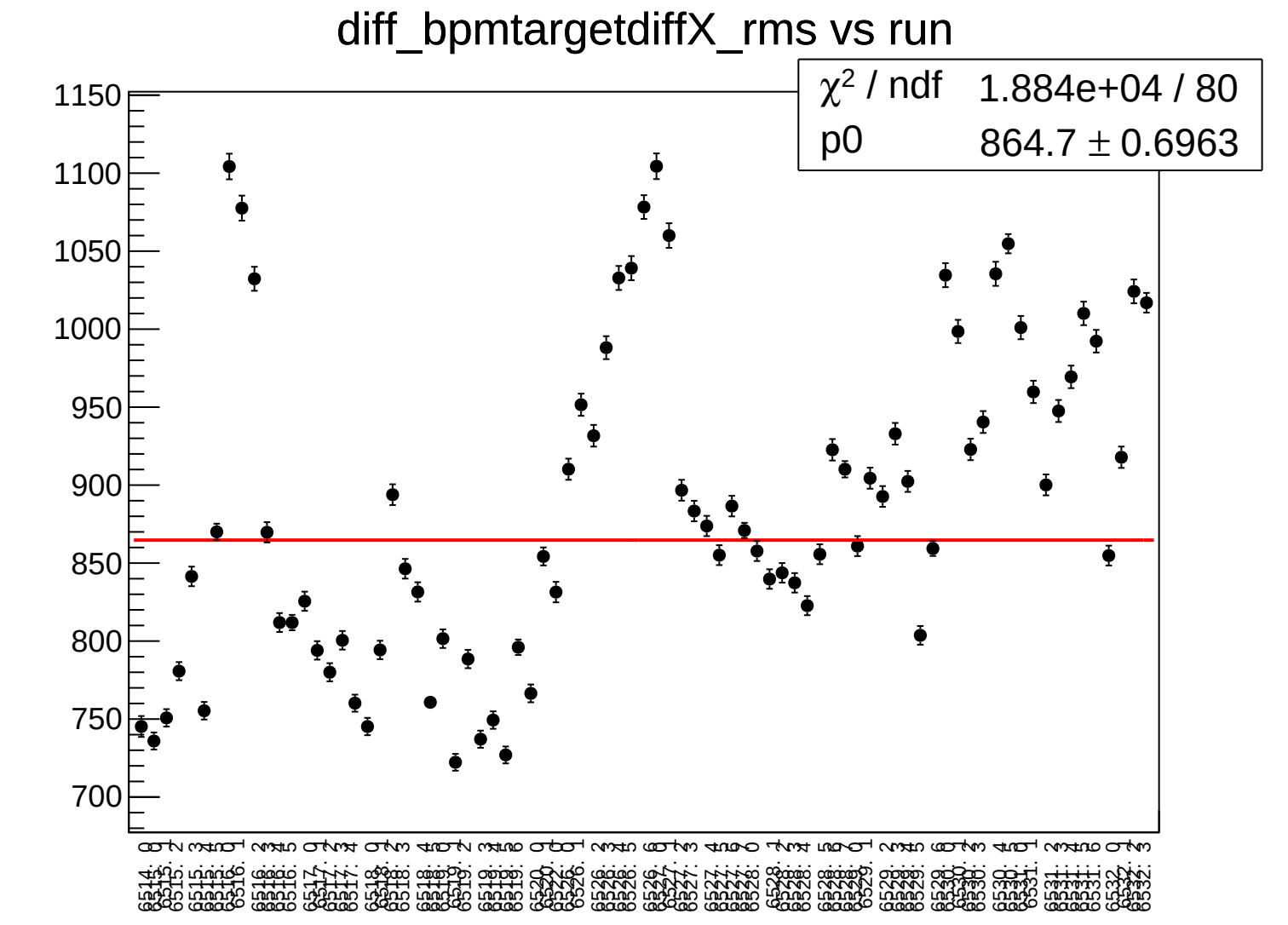

diff_bpmtargetsumX_mean vs run
χ² / ndf 73.12 / 80
p0 6.835 ± 14.69
400
200
0
−200
−400
pull
Entries 81
Mean 2448
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

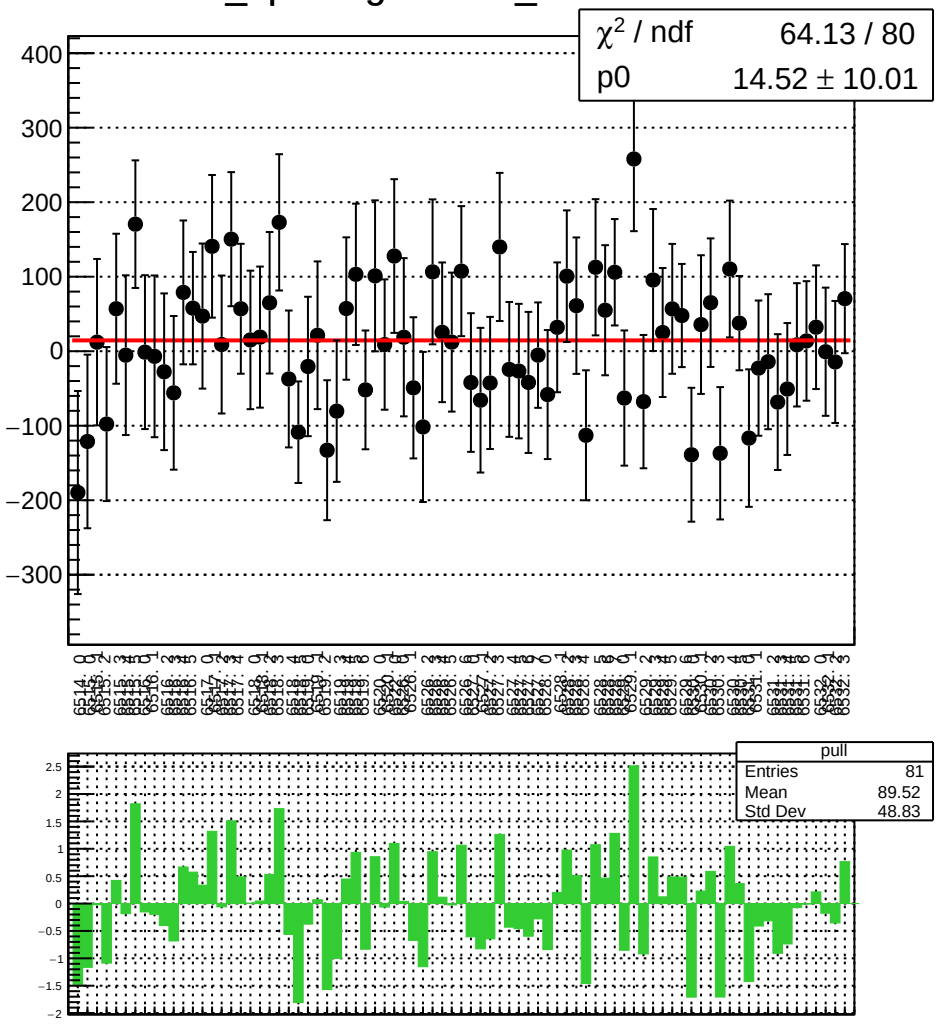

pull1D
Entries 81
Mean 0.001967
Std Dev 0.9501
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

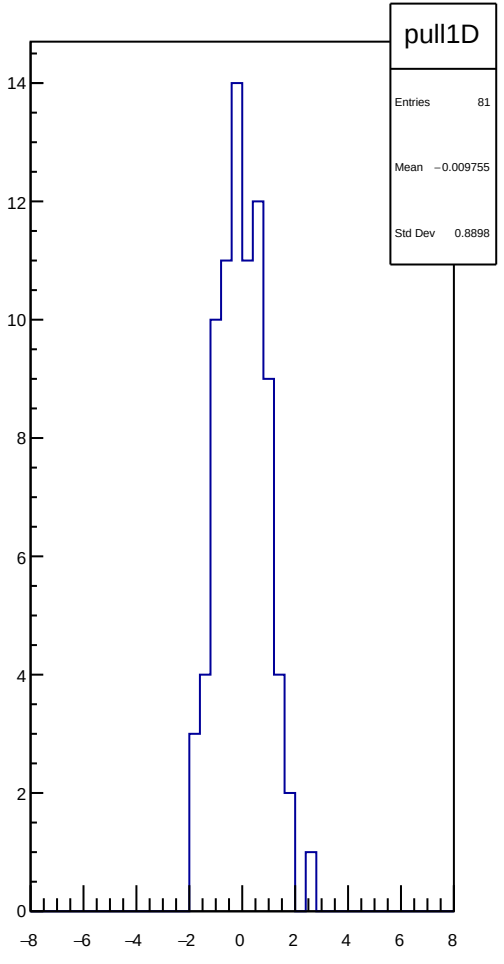

diff_bpmtargetsumX_rms vs run
χ² / ndf 3.724e+04 / 80
p0 1.283e+04 ± 10.39
16000
15000
14000
13000
12000
11000
10000
9000

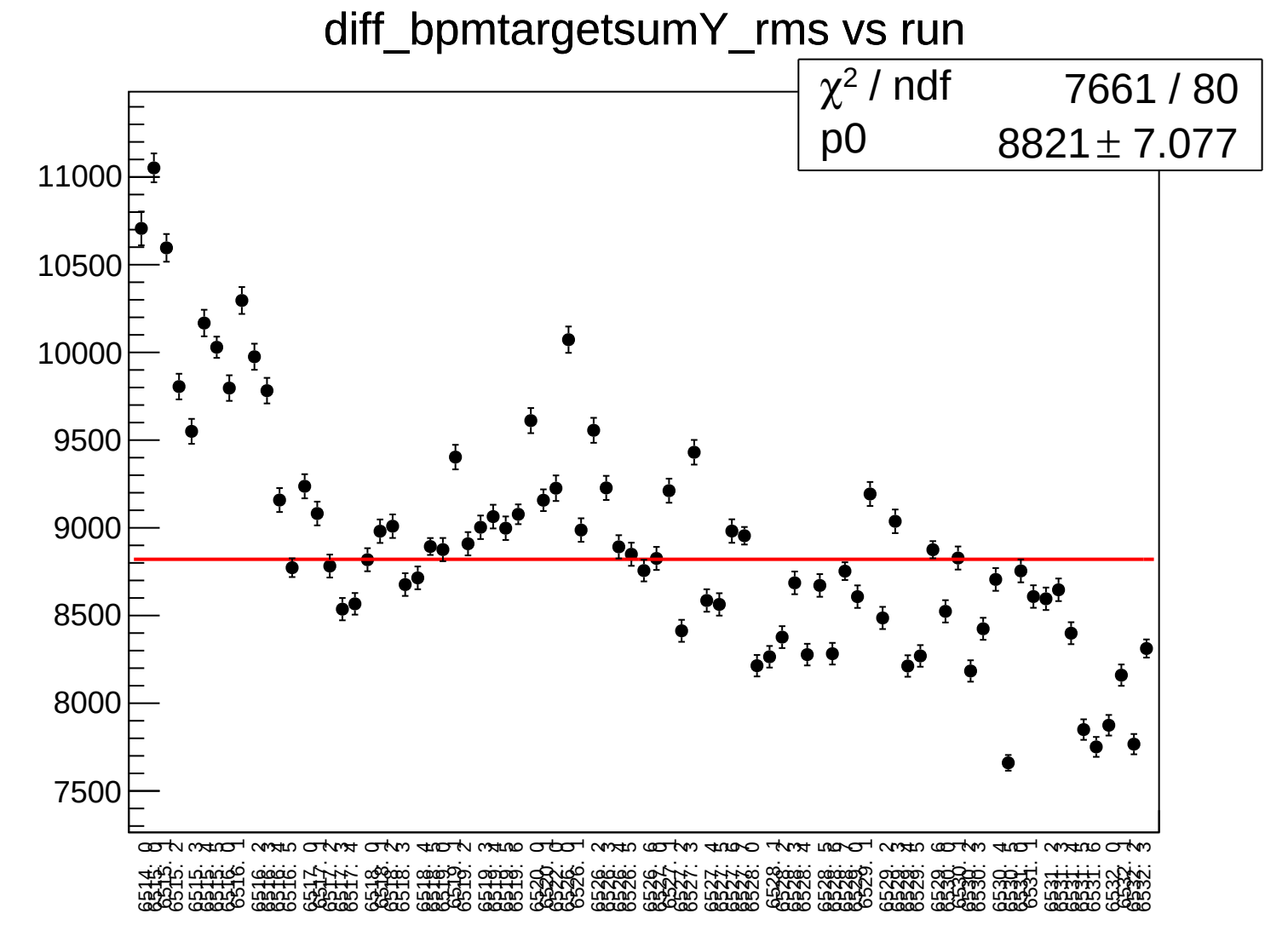

diff_bpmtargetdiffX_mean vs run
χ² / ndf 106.4 / 80
p0 0.9128 ± 0.9848
pull
Entries 81
Mean −9688
Std Dev 0

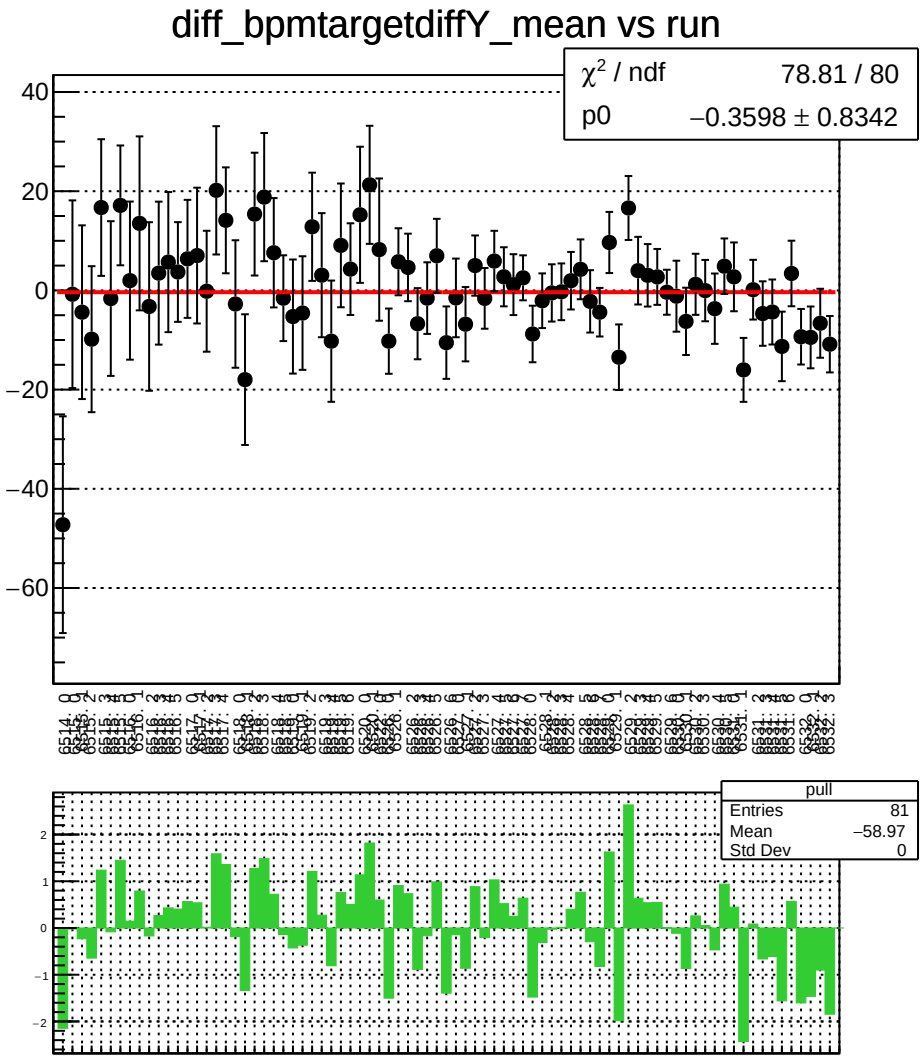

pull1D
Entries 81
Mean −0.001045
Std Dev 1.146

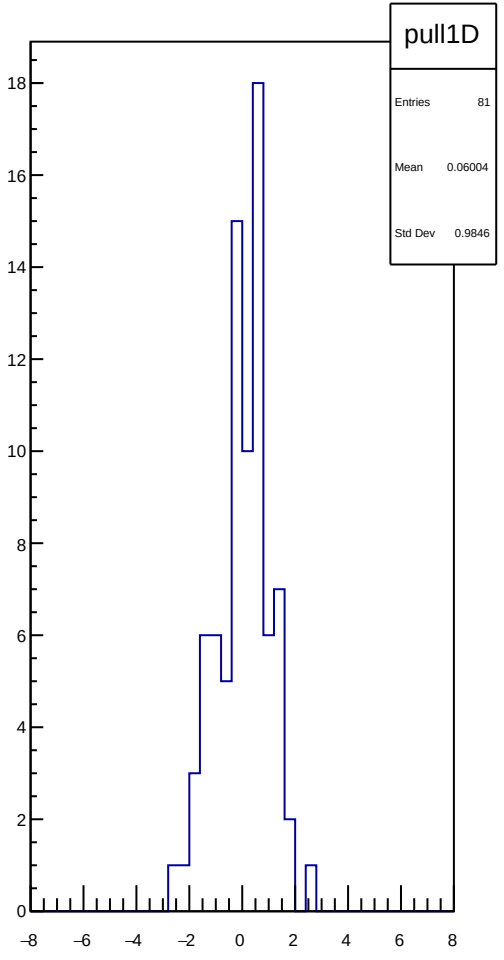

diff_bpmtargetdiffX_rms vs run
χ² / ndf 1.884e+04 / 80
p0 864.7 ± 0.6963
1150
1100
1050
1000
950
900
850
800
750
700

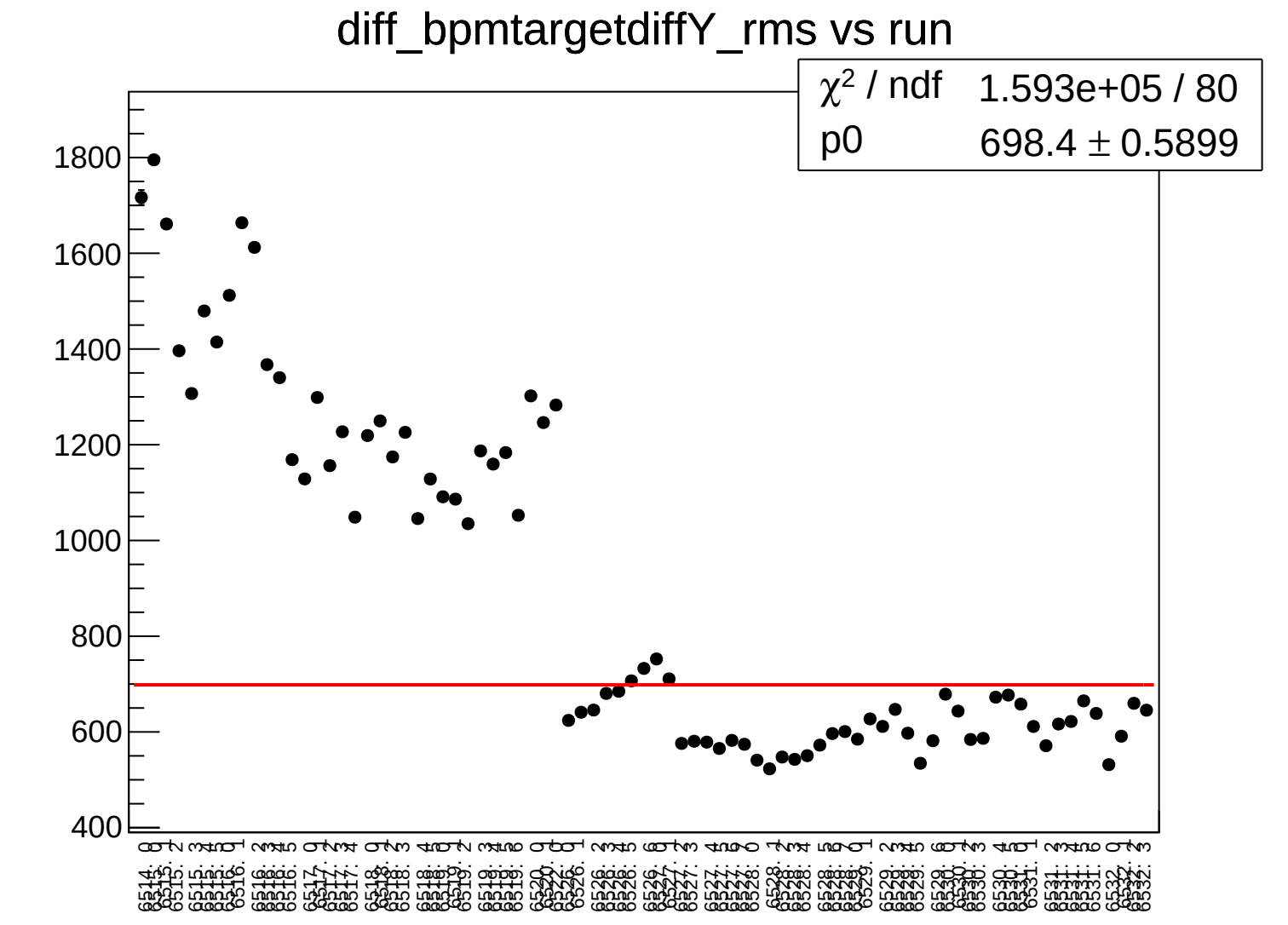

diff_bpmtargetsumY_mean vs run
χ² / ndf 64.13 / 80
p0 14.52 ± 10.01
pull
Entries 81
Mean 89.52
Std Dev 48.83

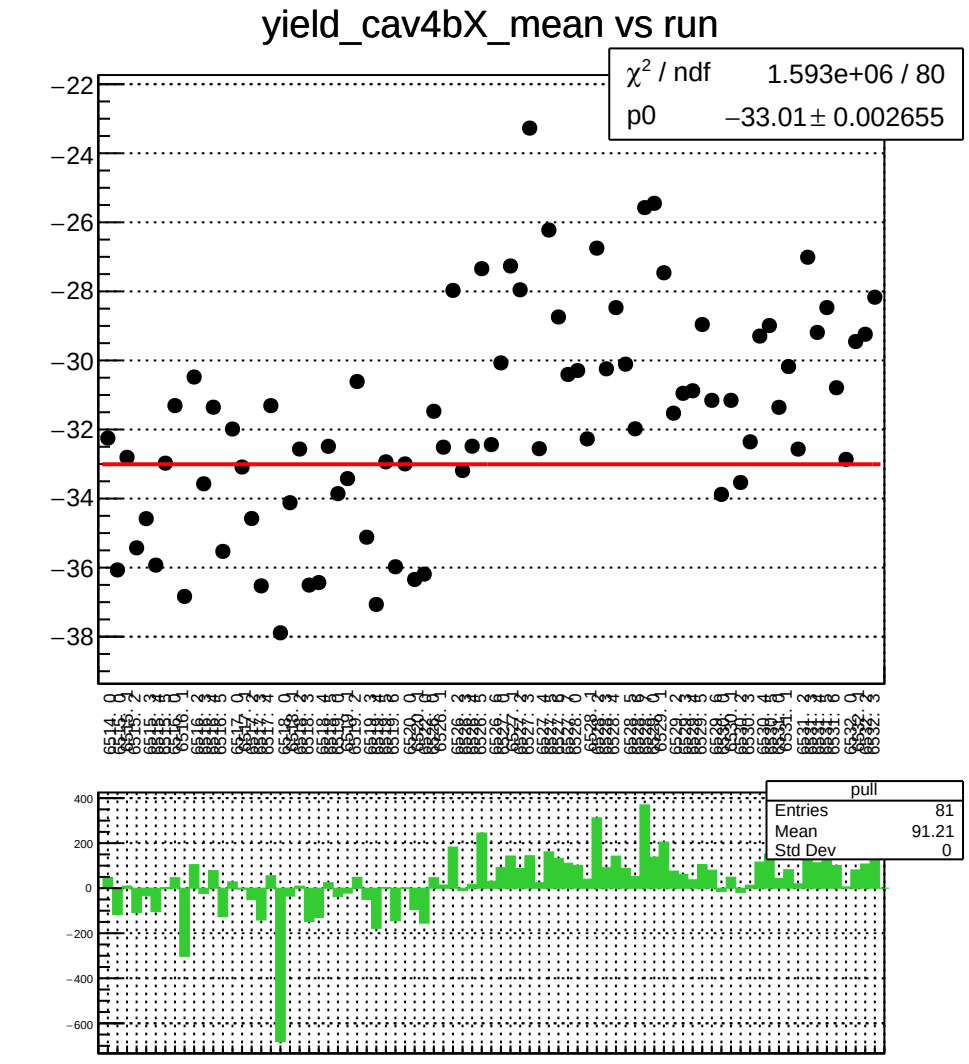

pull1D
Entries 81
Mean −0.009755
Std Dev 0.8898

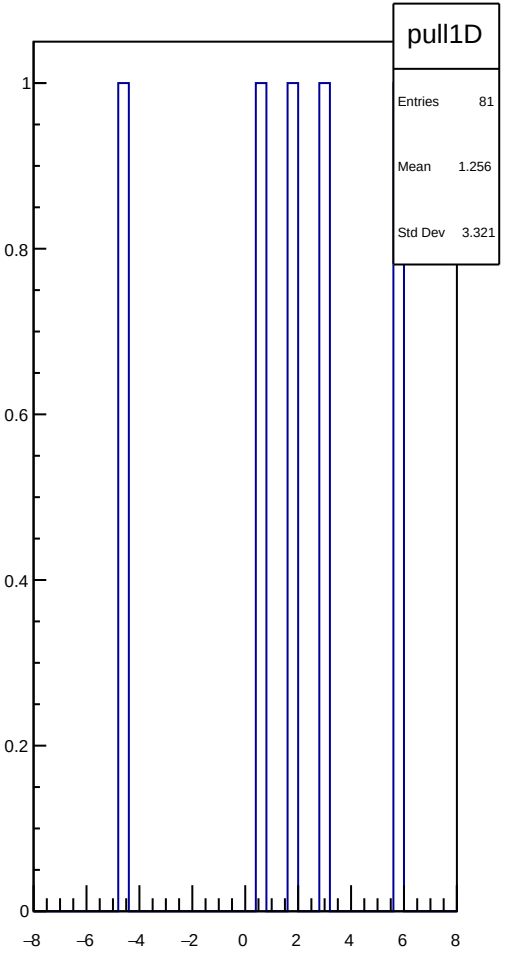

diff_bpmtargetsumY_rms vs run
χ² / ndf 7661 / 80
p0 8821 ± 7.077
11000
10500
10000
9500
9000
8500
8000
7500

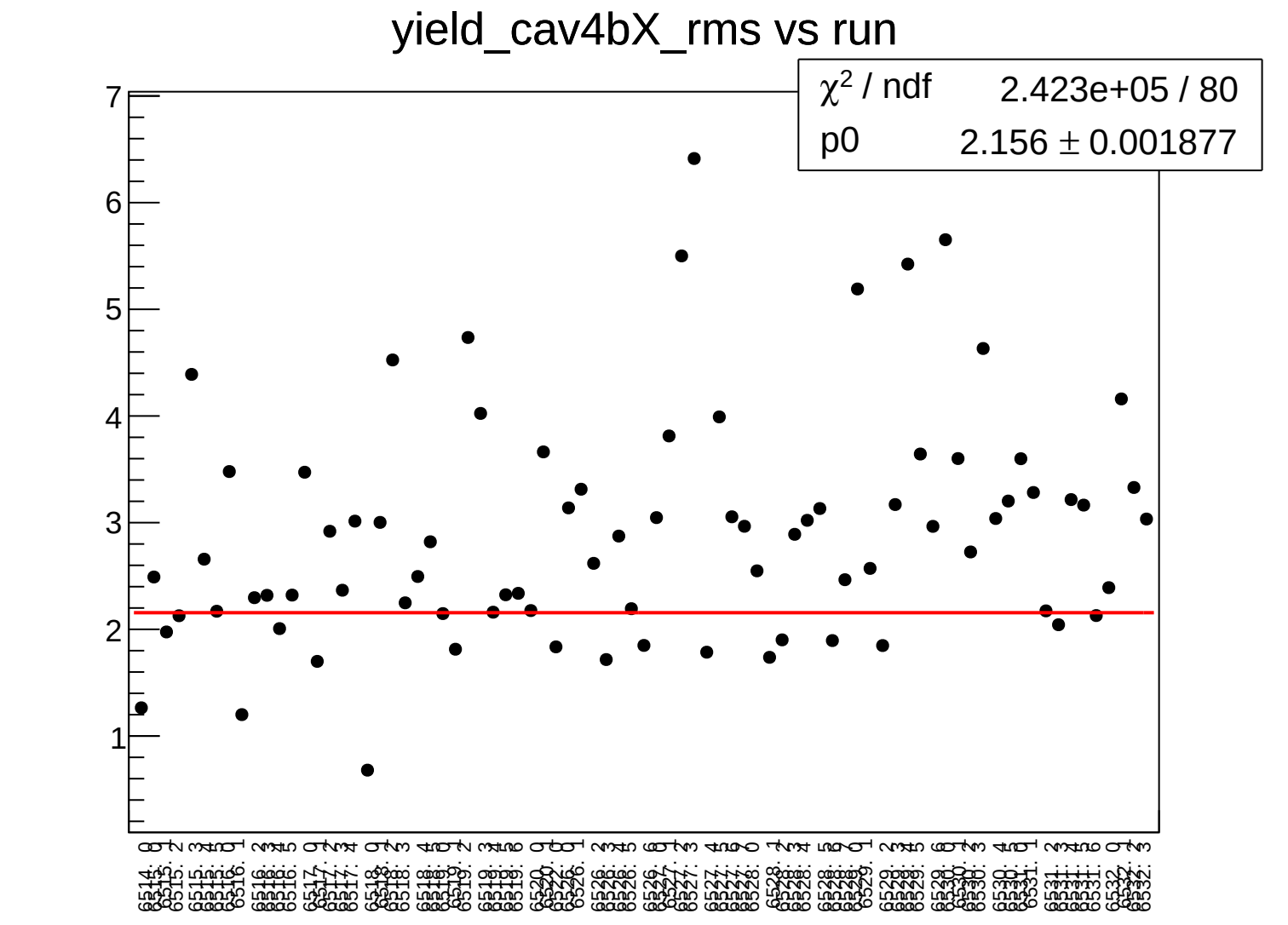

diff_bpmtargetdiffY_mean vs run
χ² / ndf 78.81 / 80
p0 −0.3598 ± 0.8342
pull
Entries 81
Mean −58.97
Std Dev 0

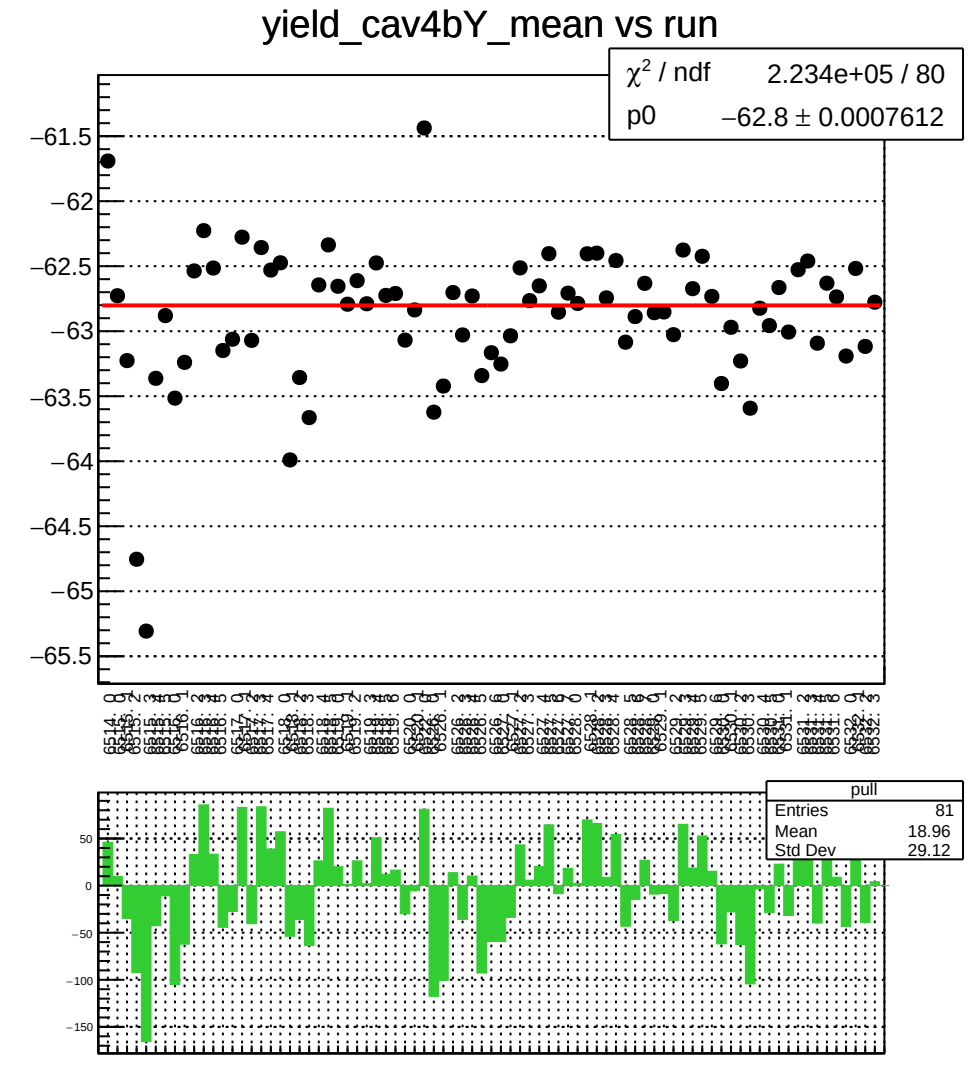

pull1D
Entries 81
Mean 0.06004
Std Dev 0.9846

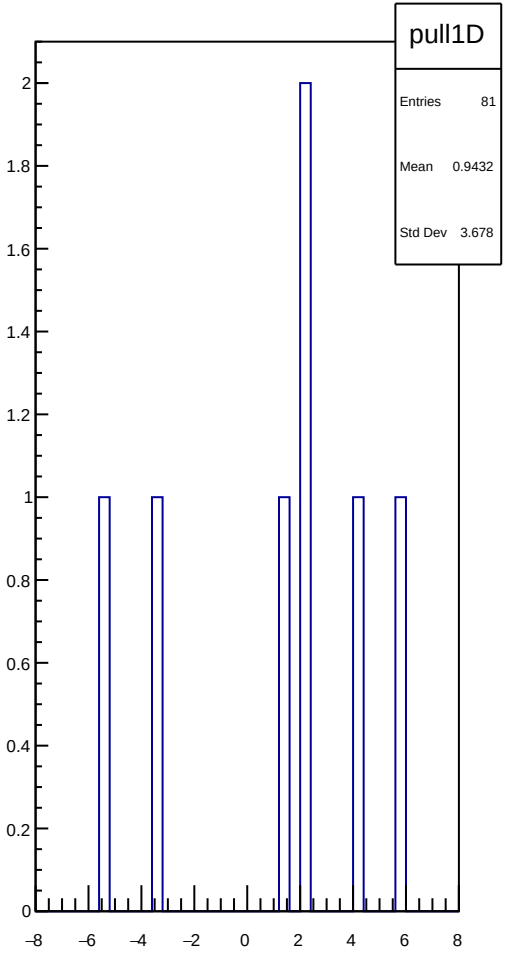

diff_bpmtargetdiffY_rms vs run
χ² / ndf 1.593e+05 / 80
p0 698.4 ± 0.5899
1800
1600
1400
1200
1000
800
600
400

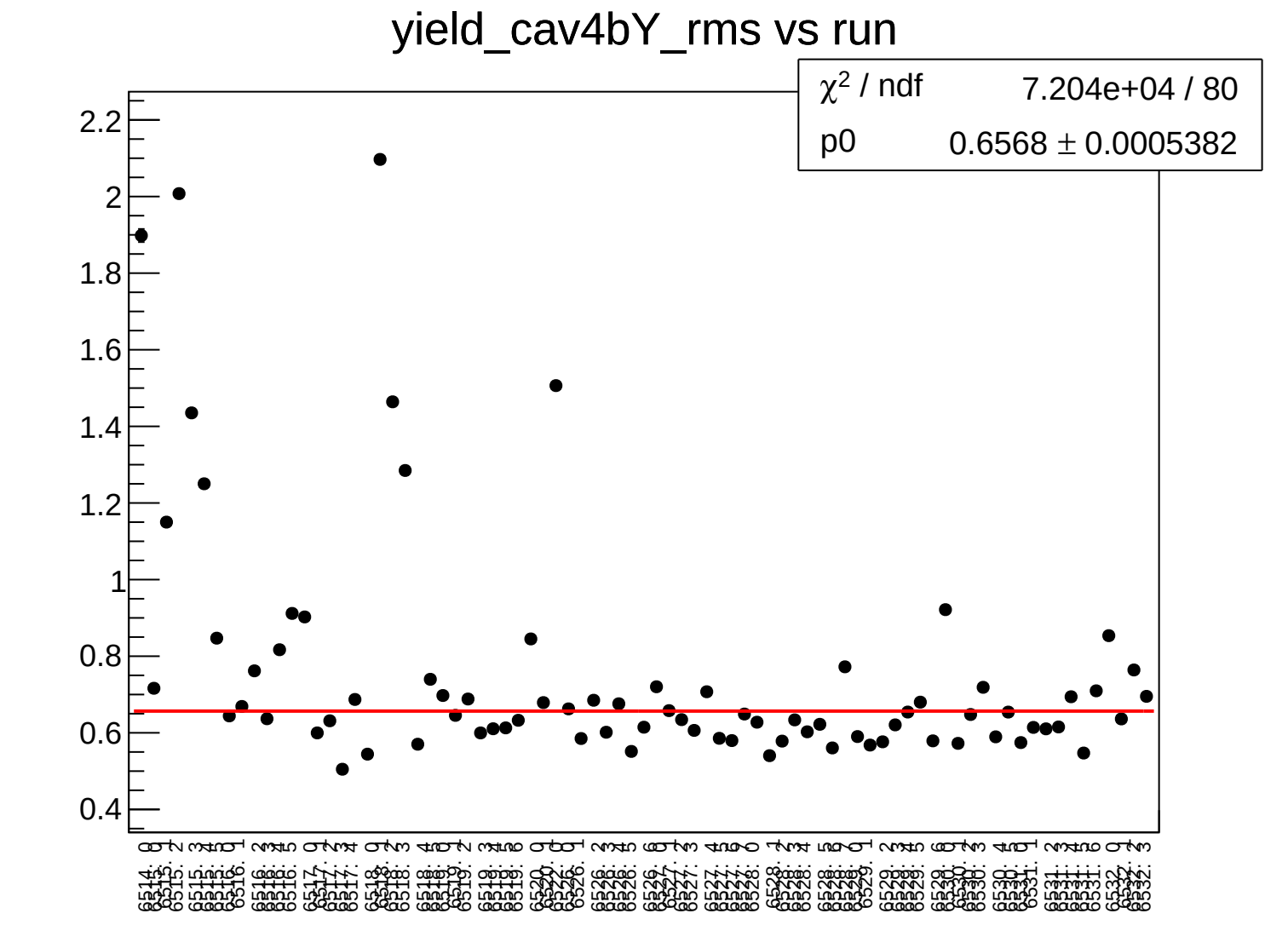

yield_cav4bX_mean vs run
χ² / ndf 1.593e+06 / 80
p0 −33.01 ± 0.002655
pull
Entries 81
Mean 91.21
Std Dev 0

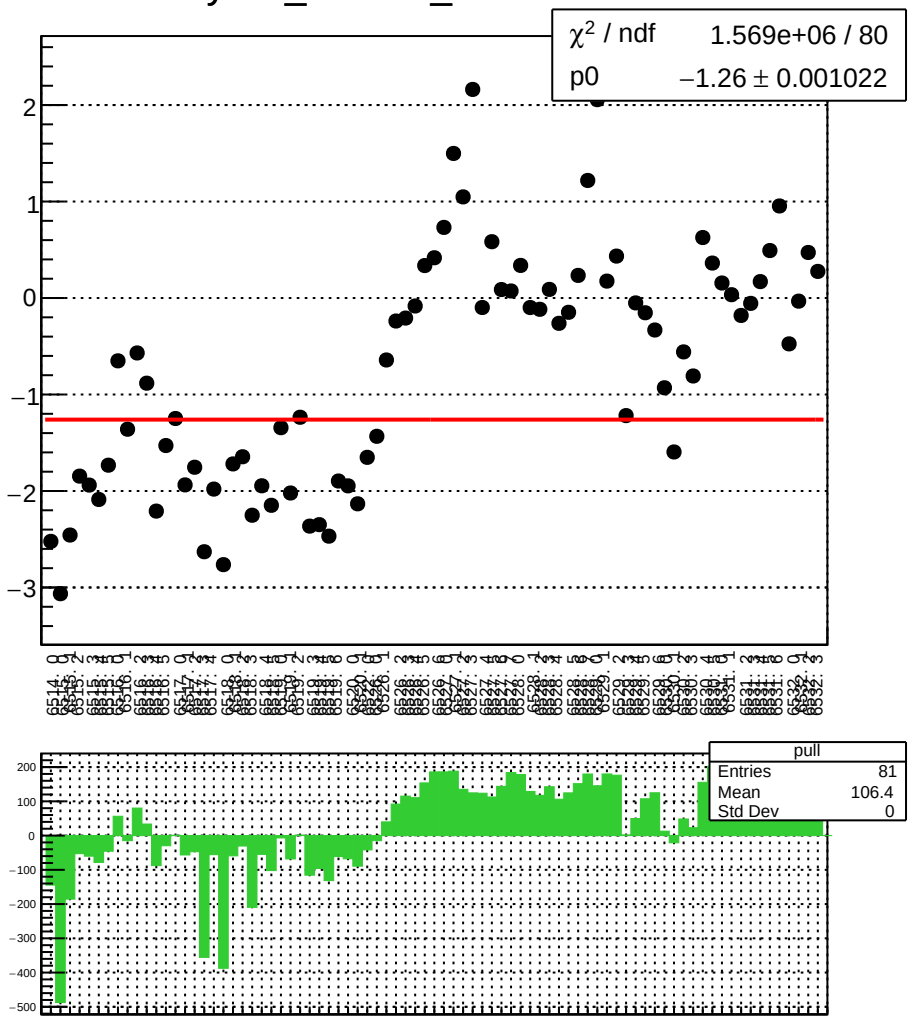

pull1D
Entries 81
Mean 1.256
Std Dev 3.321

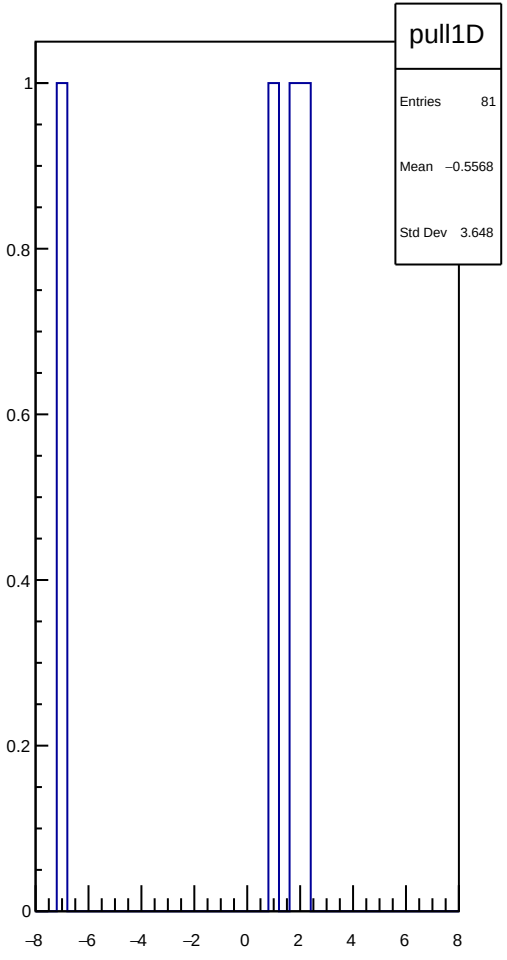

yield_cav4bX_rms vs run
χ^2 / ndf 2.423e+05 / 80
p0 2.156 ± 0.001877
7
6
5
4
3
2
1

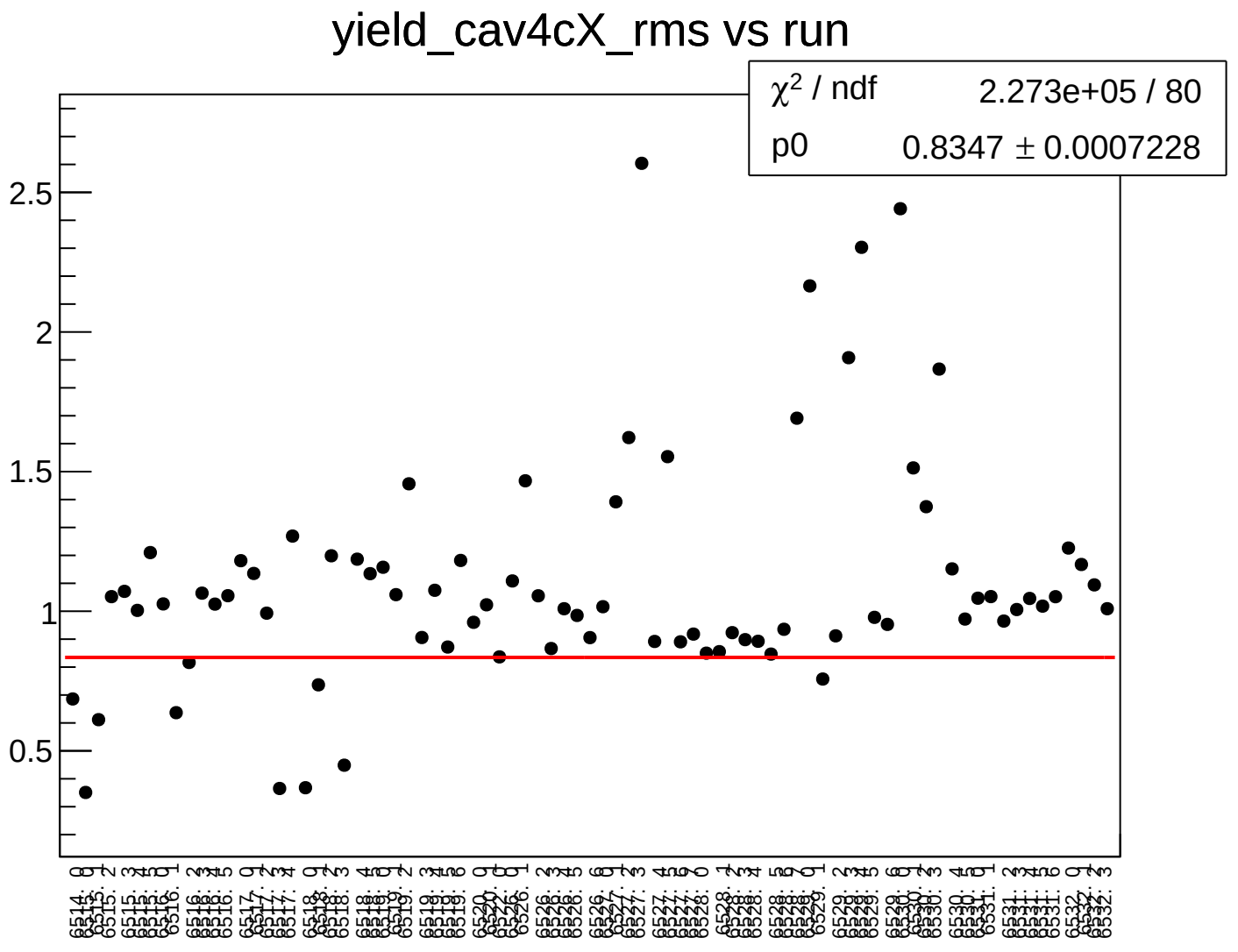

yield_cav4bY_mean vs run
χ² / ndf 2.234e+05 / 80
p0 −62.8 ± 0.0007612
−61.5
−62
−62.5
−63
−63.5
−64
−64.5
−65
−65.5
pull
Entries 81
Mean 18.96
Std Dev 29.12
50
0
−50
−100
−150

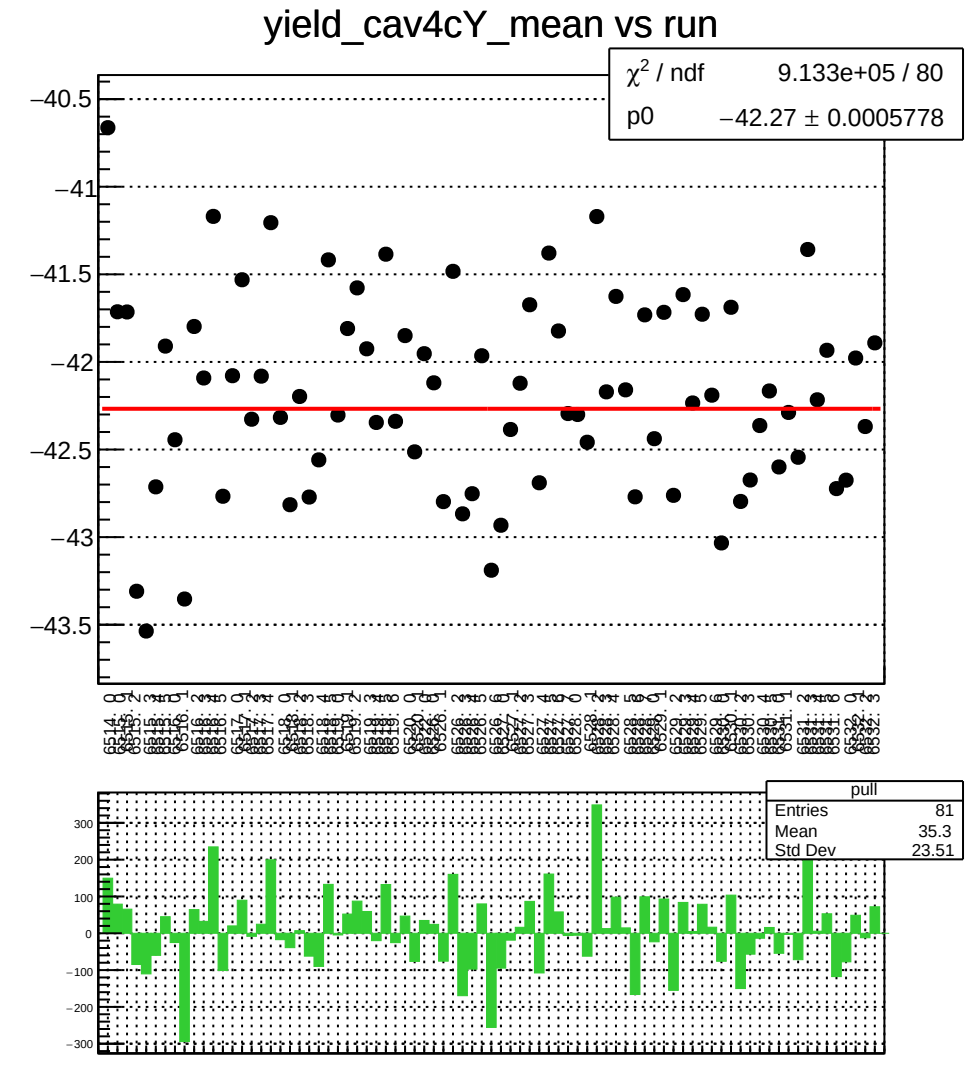

pull1D
Entries 81
Mean 0.9432
Std Dev 3.678
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

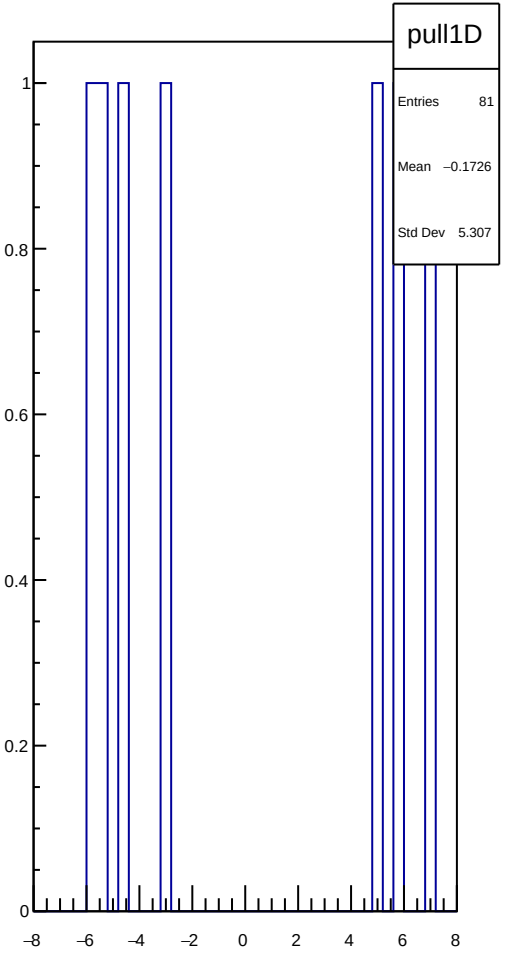

yield_cav4bY_rms vs run
χ^2 / ndf 7.204e+04 / 80
p0 0.6568 ± 0.0005382
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4

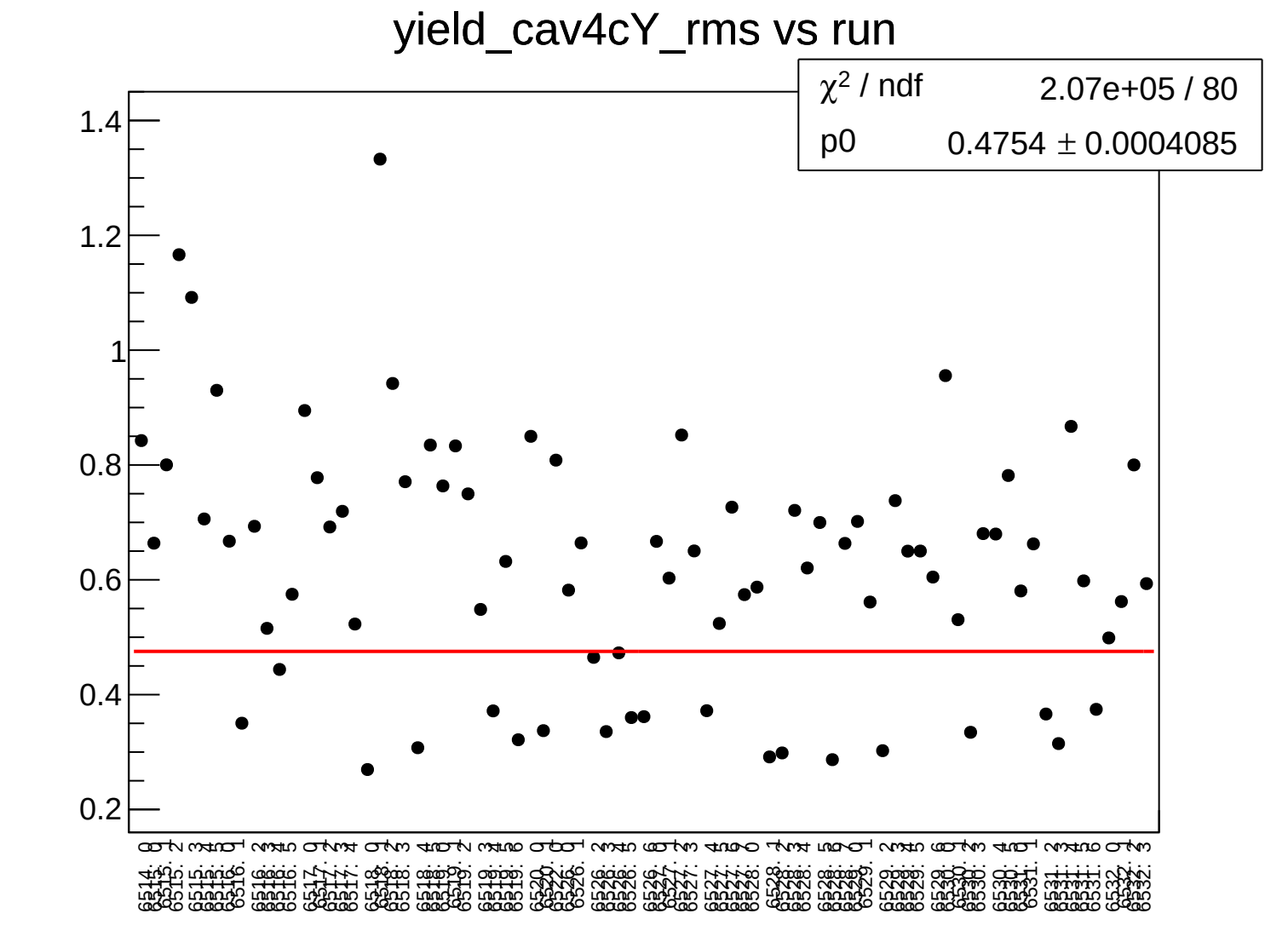

yield_cav4cX_mean vs run
χ² / ndf 1.569e+06 / 80
p0 −1.26 ± 0.001022
pull
Entries 81
Mean 106.4
Std Dev 0

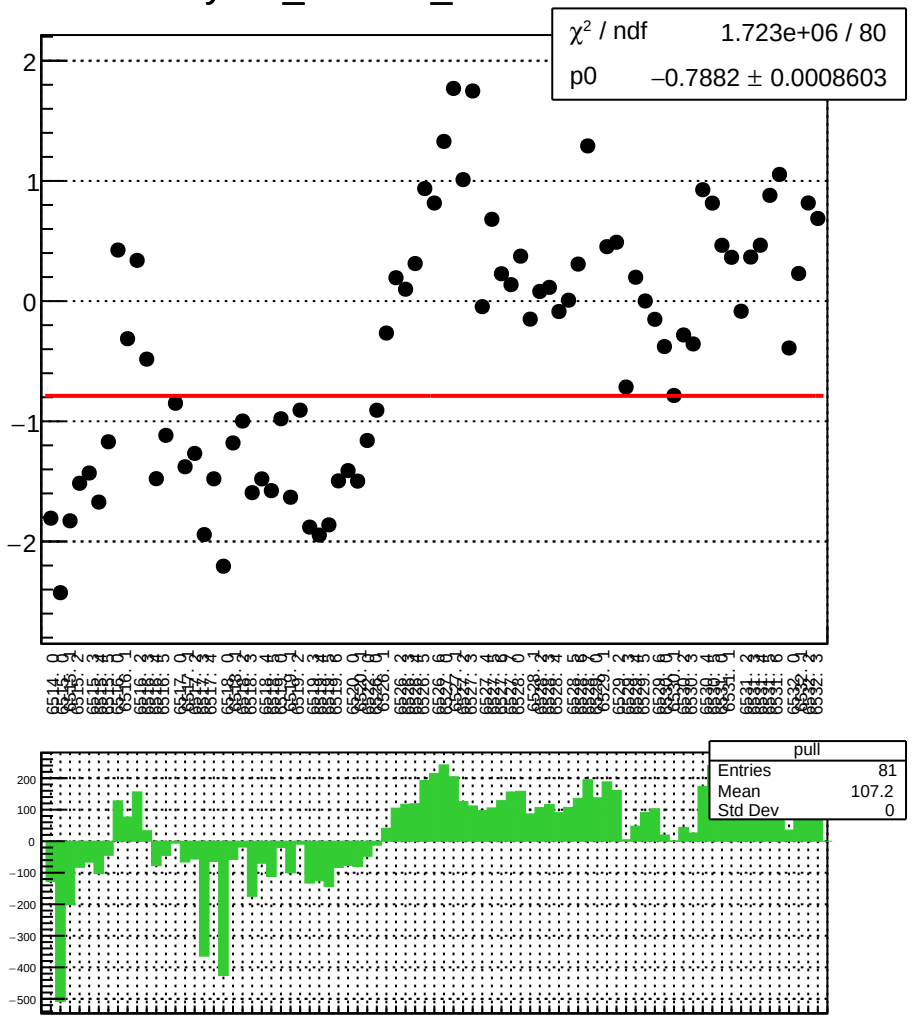

pull1D
Entries 81
Mean −0.5568
Std Dev 3.648

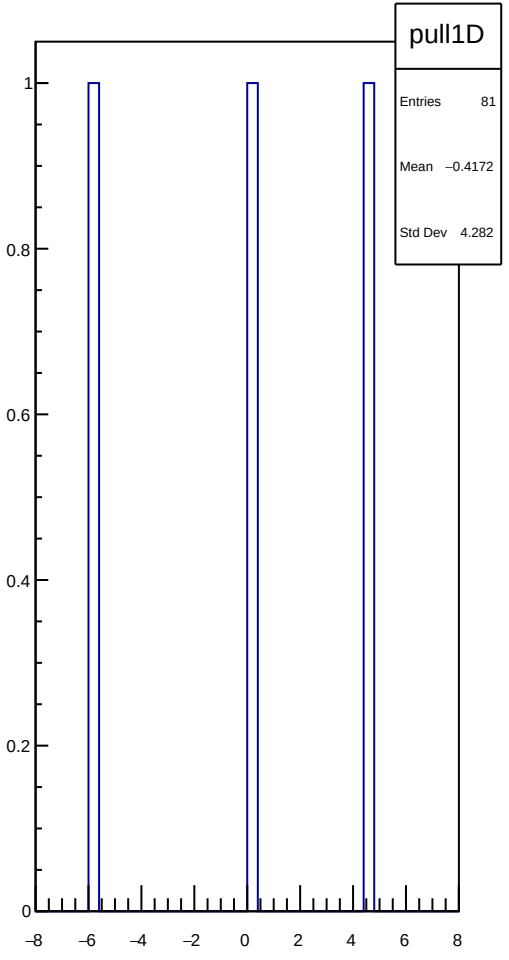

yield_cav4cX_rms vs run
χ² / ndf 2.273e+05 / 80
p0 0.8347 ± 0.0007228
2.5
2
1.5
1
0.5

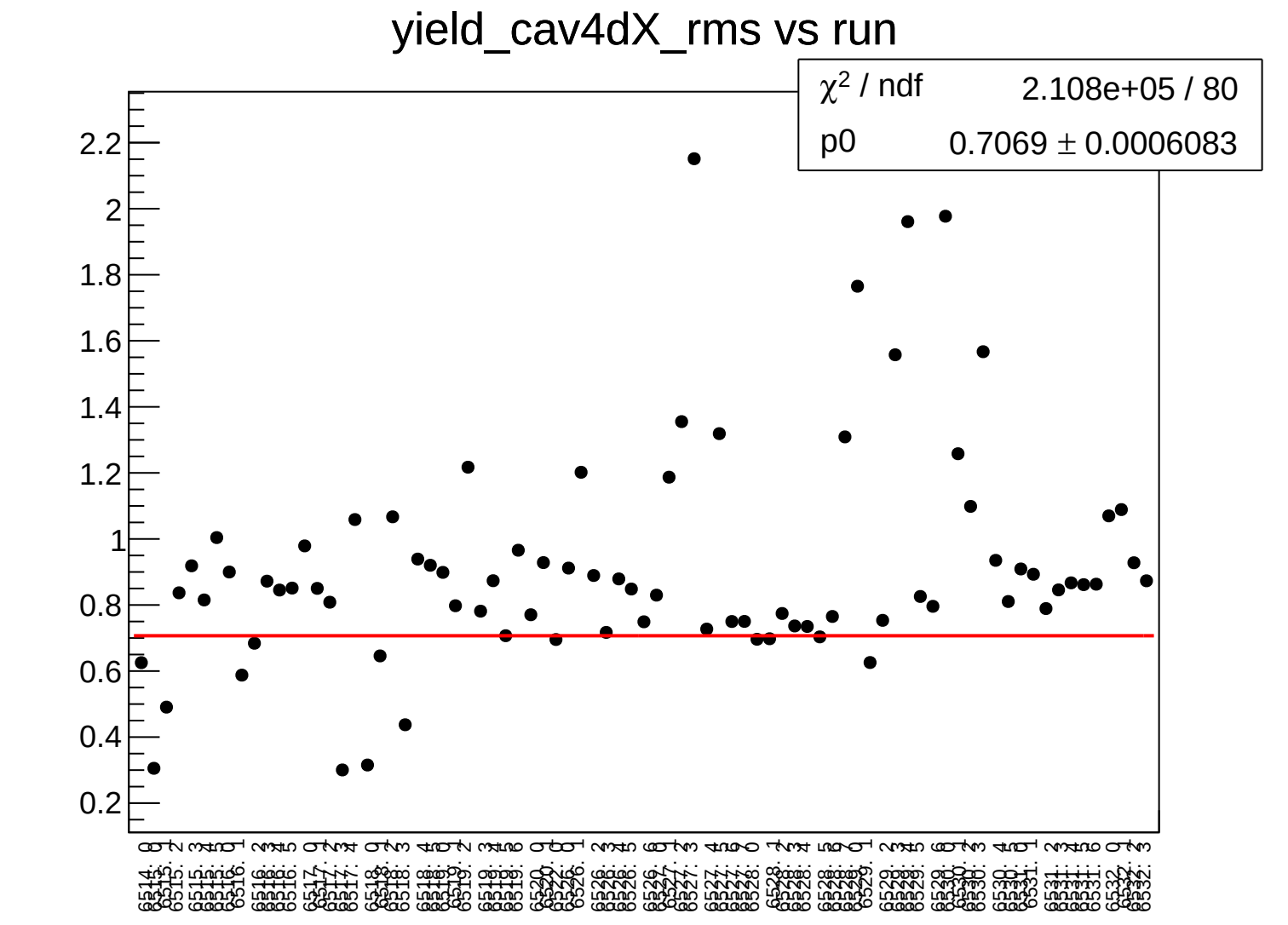

yield_cav4cY_mean vs run
χ² / ndf 9.133e+05 / 80
p0 −42.27 ± 0.0005778
−40.5
−41
−41.5
−42
−42.5
−43
−43.5
pull
Entries 81
Mean 35.3
Std Dev 23.51
300
200
100
0
−100
−200
−300

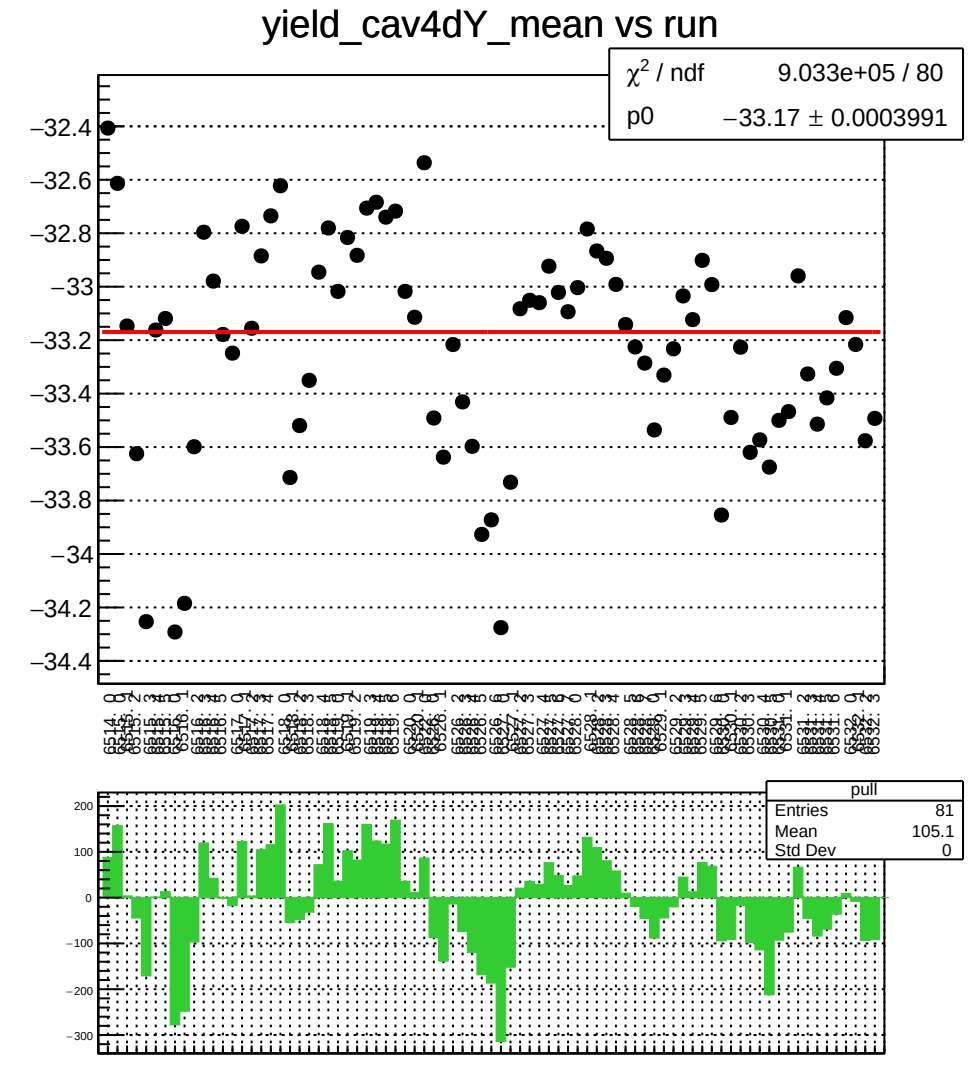

pull1D
Entries 81
Mean −0.1726
Std Dev 5.307
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

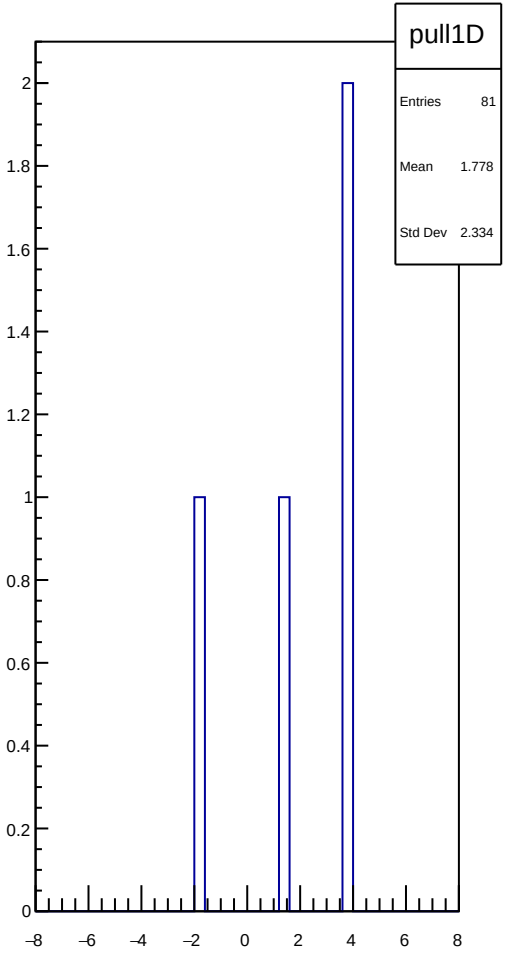

yield_cav4cY_rms vs run
χ² / ndf 2.07e+05 / 80
p0 0.4754 ± 0.0004085
1.4
1.2
1
0.8
0.6
0.4
0.2

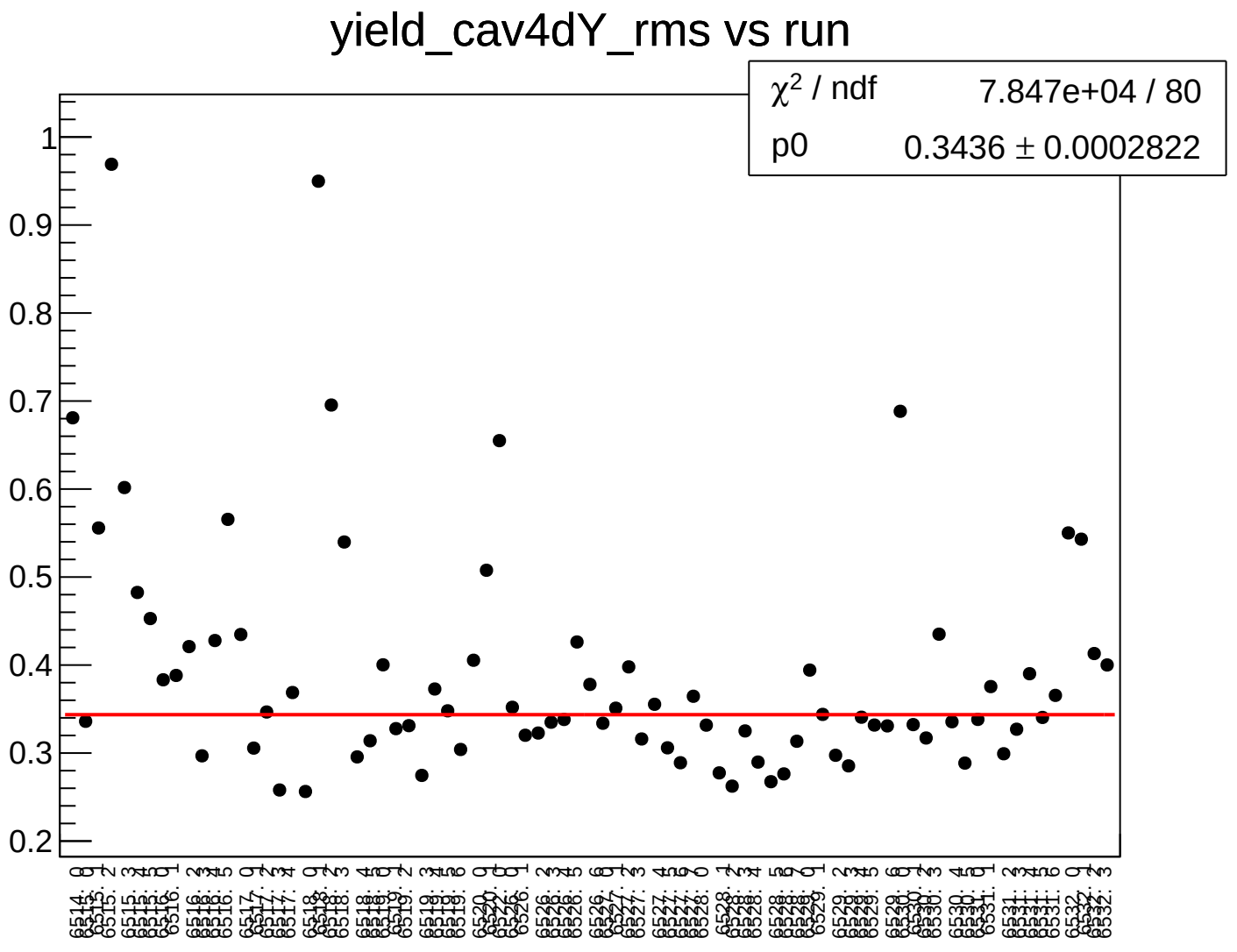

yield_cav4dX_mean vs run
χ² / ndf 1.723e+06 / 80
p0 −0.7882 ± 0.0008603
pull
Entries 81
Mean 107.2
Std Dev 0

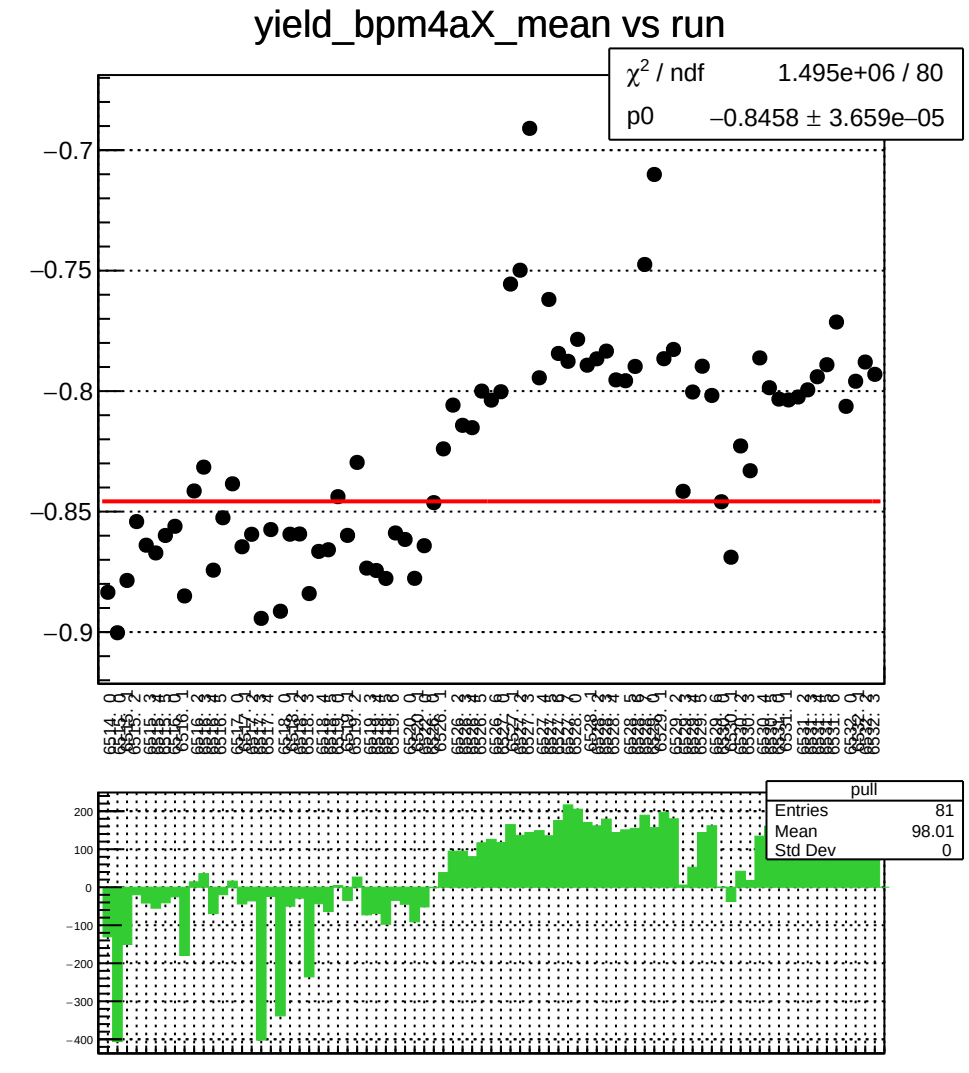

pull1D
Entries 81
Mean −0.4172
Std Dev 4.282

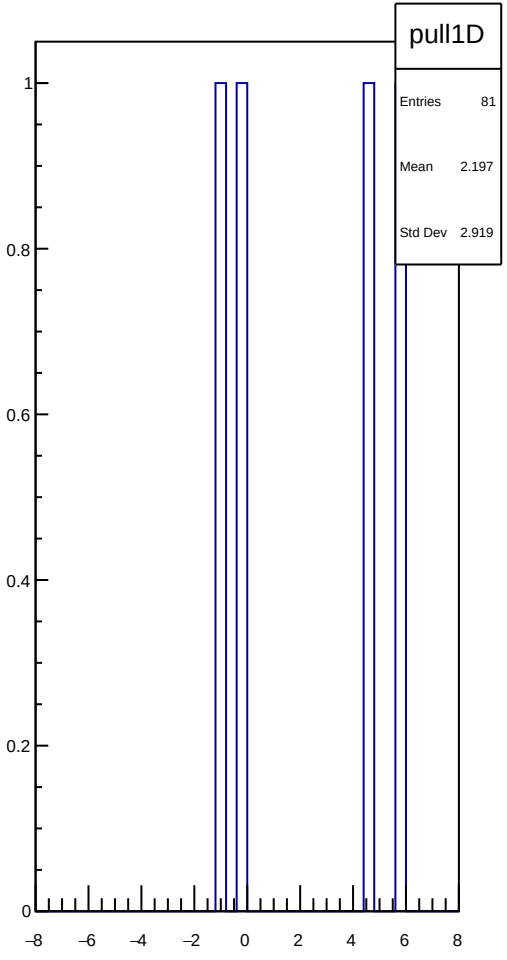

yield_cav4dX_rms vs run
χ² / ndf 2.108e+05 / 80
p0 0.7069 ± 0.0006083
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

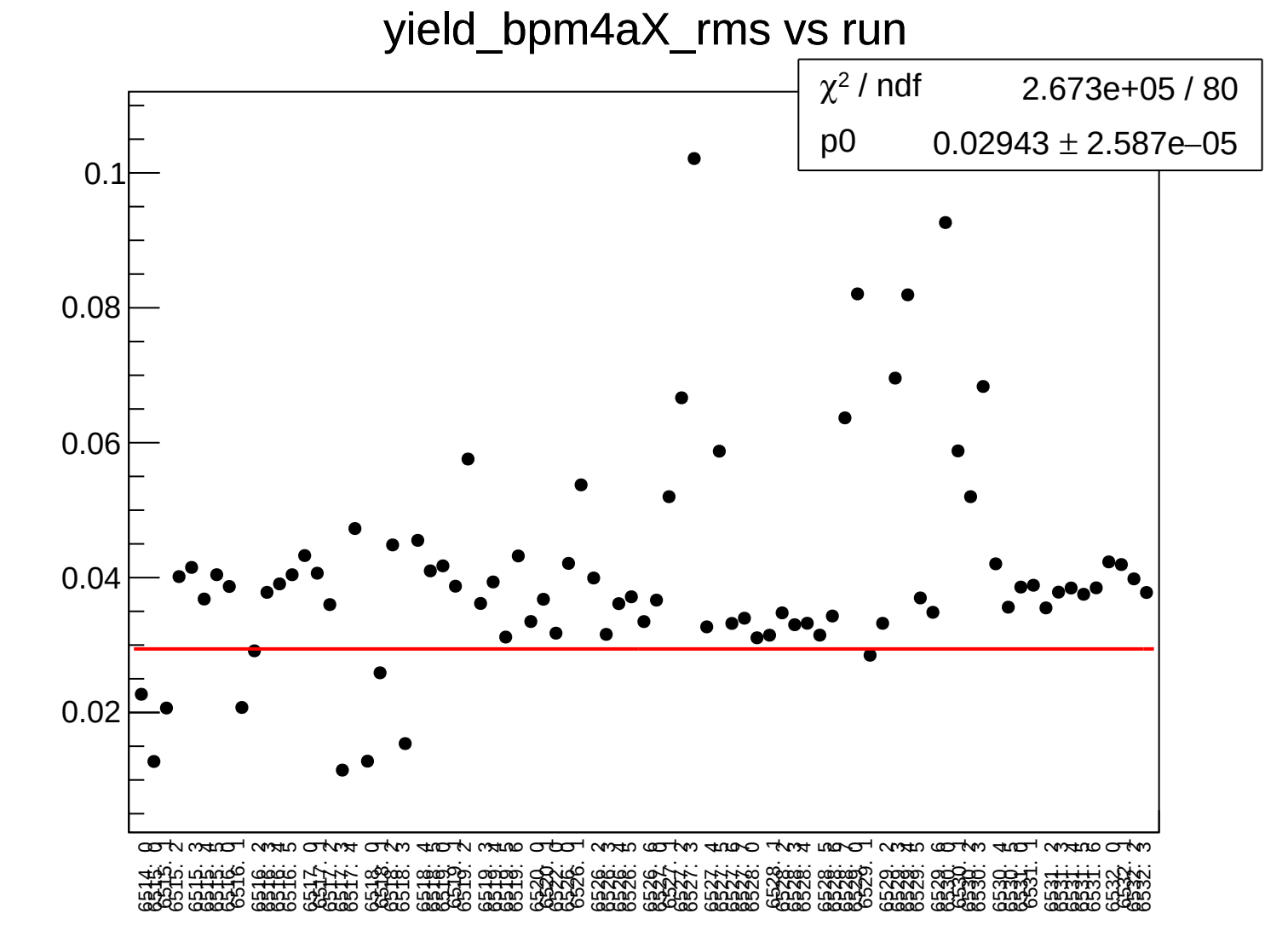

yield_cav4dY_mean vs run
χ² / ndf 9.033e+05 / 80
p0 −33.17 ± 0.0003991
−32.4
−32.6
−32.8
−33
−33.2
−33.4
−33.6
−33.8
−34
−34.2
−34.4
pull
Entries 81
Mean 105.1
Std Dev 0
200
100
0
−100
−200
−300

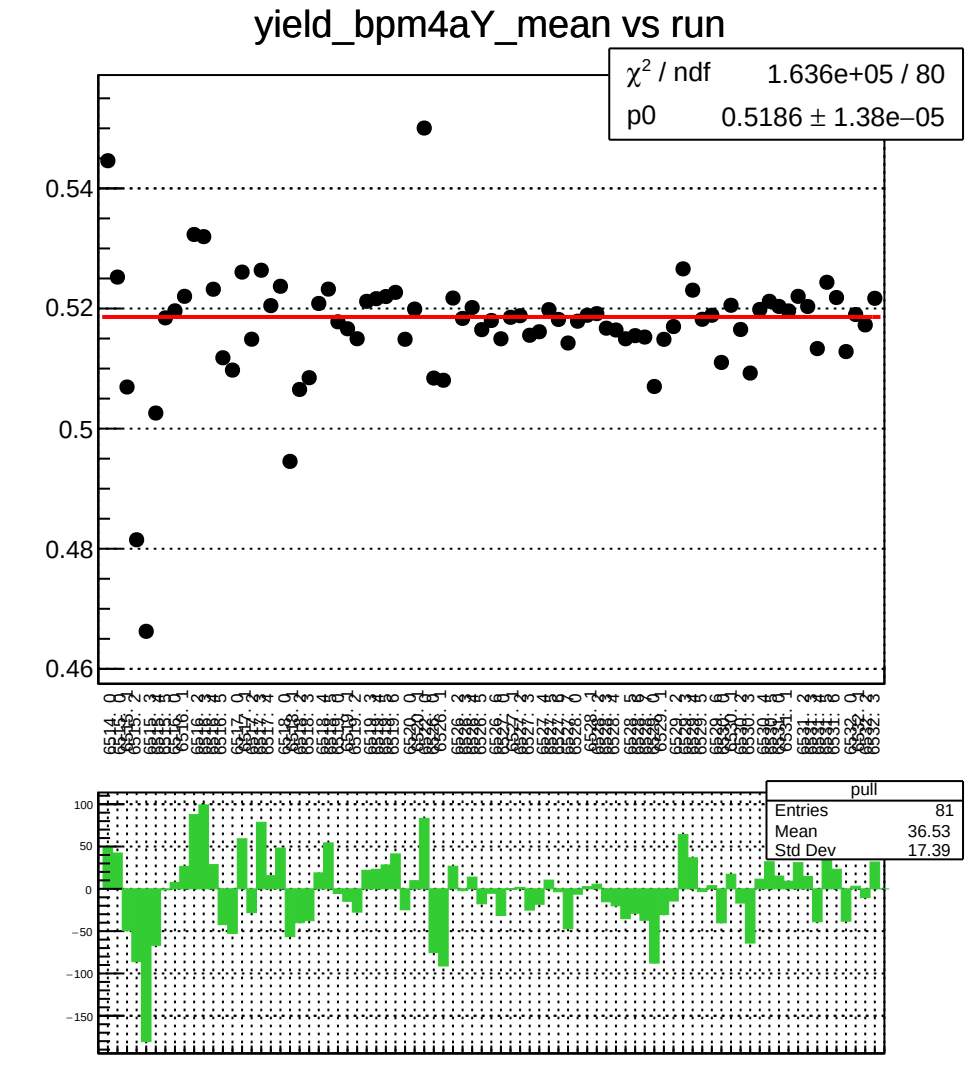

pull1D
Entries 81
Mean 1.778
Std Dev 2.334
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

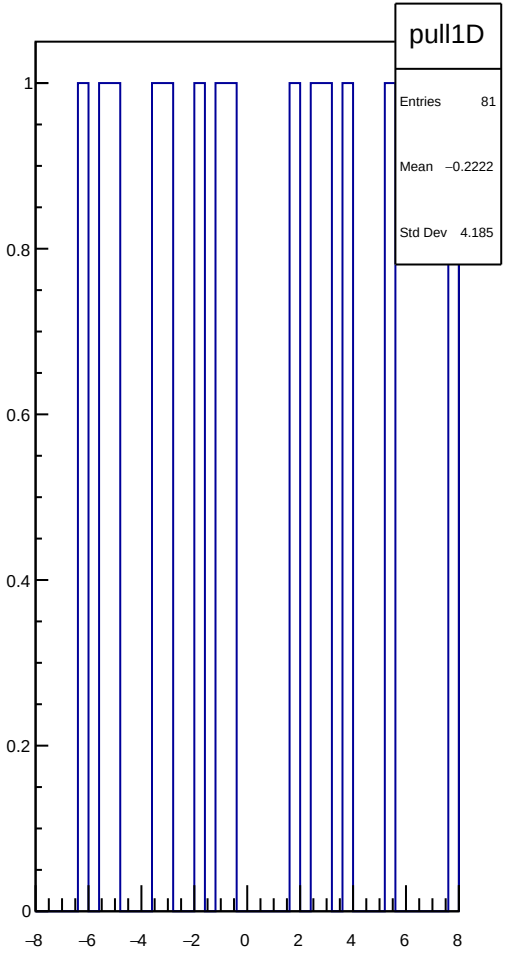

yield_cav4dY_rms vs run
χ^2 / ndf 7.847e+04 / 80
p0 0.3436 ± 0.0002822
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2


yield_bpm4aX_mean vs run
χ² / ndf 1.495e+06 / 80
p0 −0.8458 ± 3.659e−05
−0.7
−0.75
−0.8
−0.85
−0.9
pull
Entries 81
Mean 98.01
Std Dev 0
200
100
0
−100
−200
−300
−400

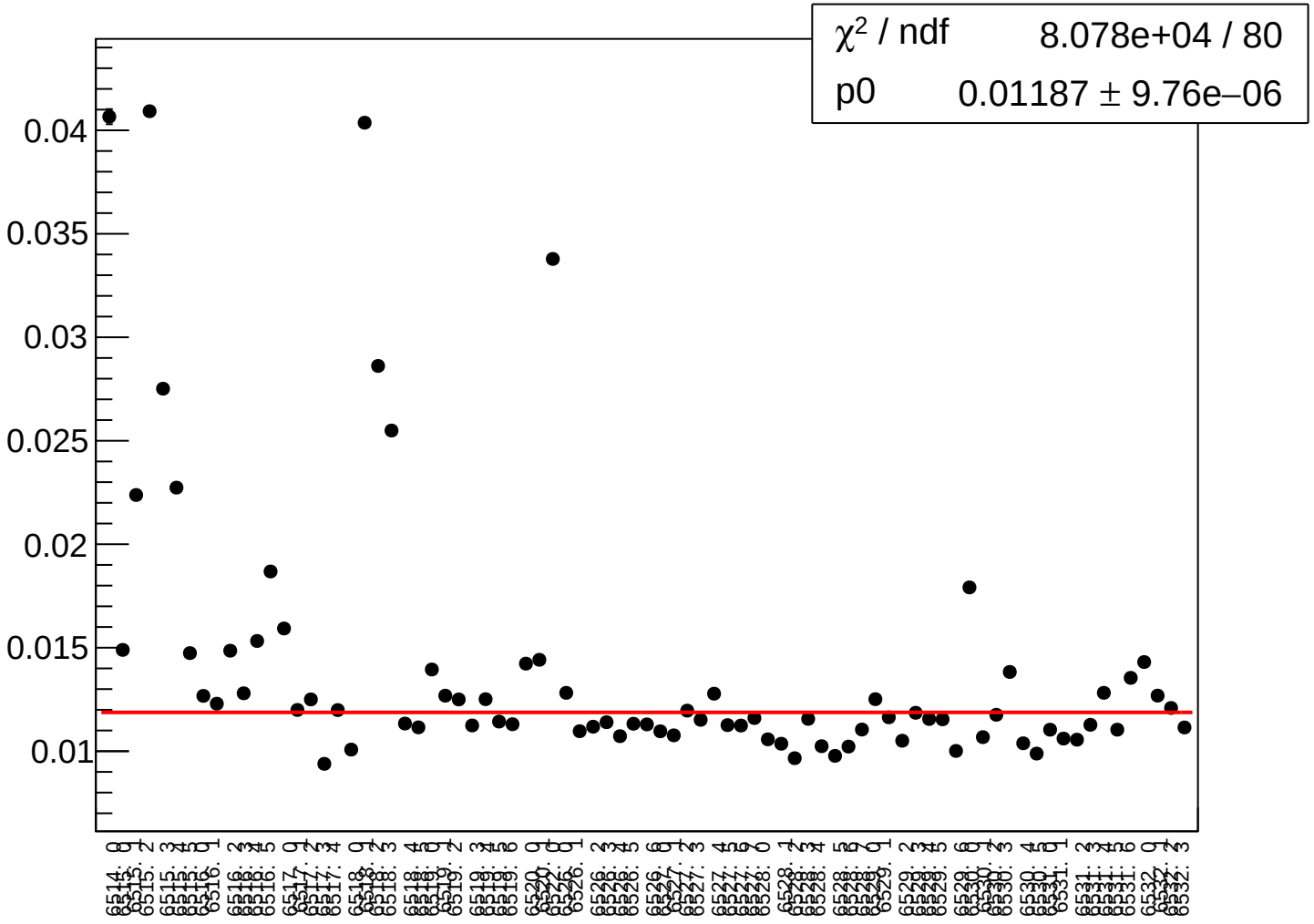

pull1D
Entries 81
Mean 2.197
Std Dev 2.919
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

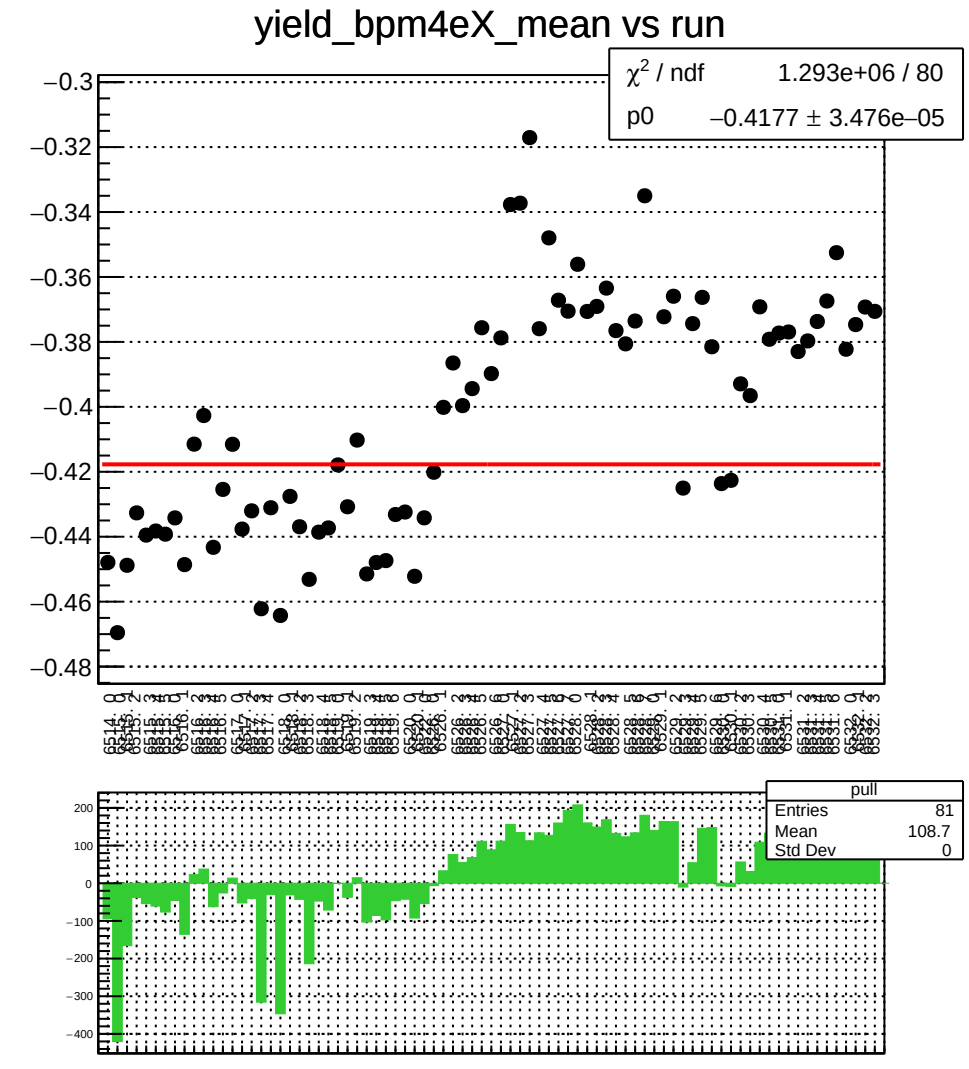

yield_bpm4aX_rms vs run
χ² / ndf 2.673e+05 / 80
p0 0.02943 ± 2.587e–05
0.1
0.08
0.06
0.04
0.02

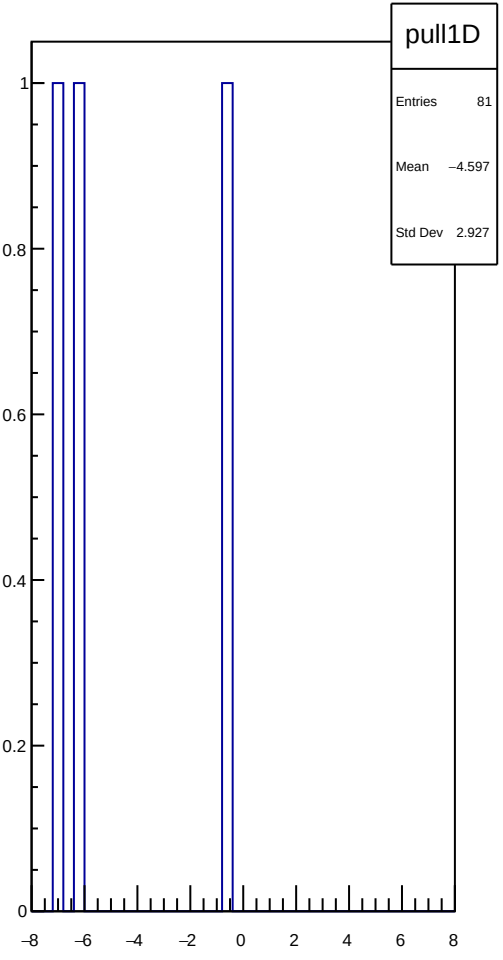

yield_bpm4aY_mean vs run
χ² / ndf 1.636e+05 / 80
p0 0.5186 ± 1.38e−05
0.54
0.52
0.5
0.48
0.46
pull
Entries 81
Mean 36.53
Std Dev 17.39
100
50
0
−50
−100
−150

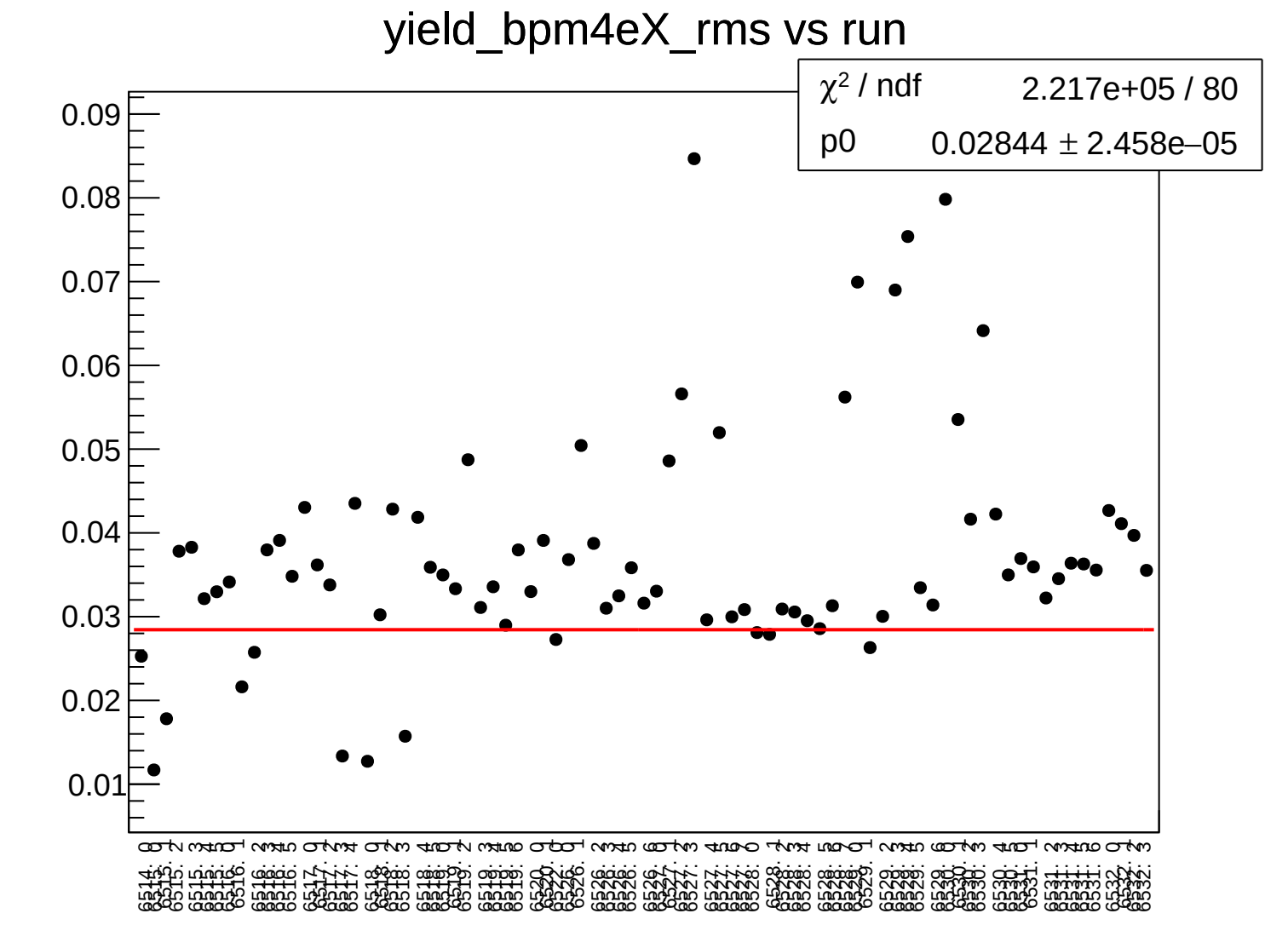

pull1D
Entries 81
Mean −0.2222
Std Dev 4.185
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

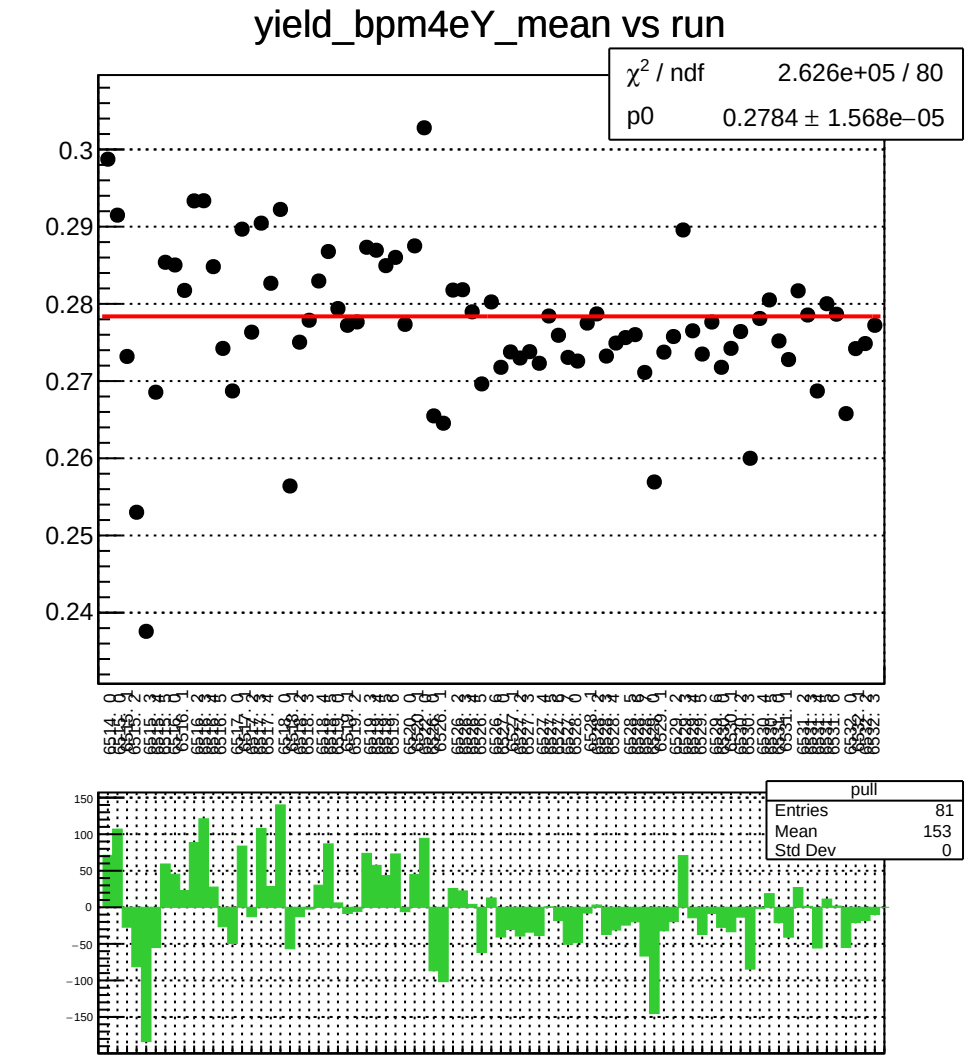
yield_bpm4aY_rms vs run

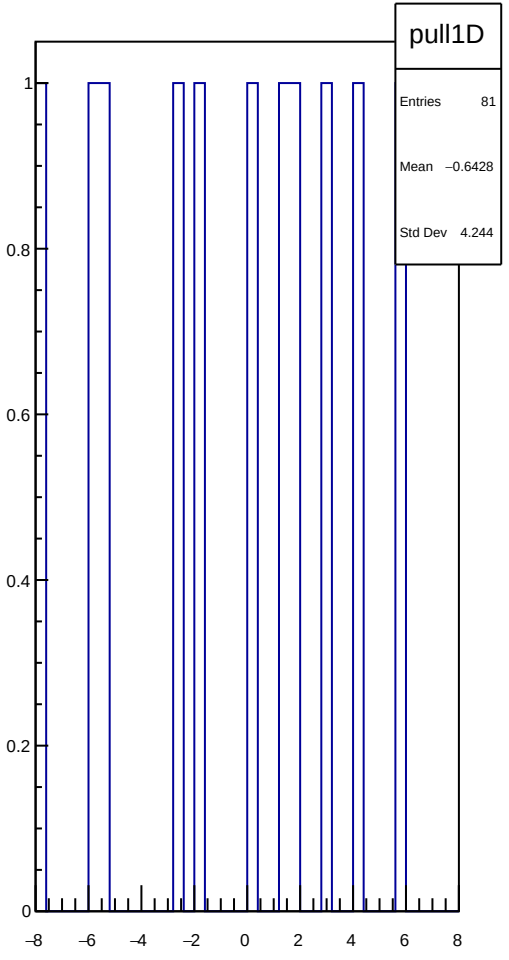


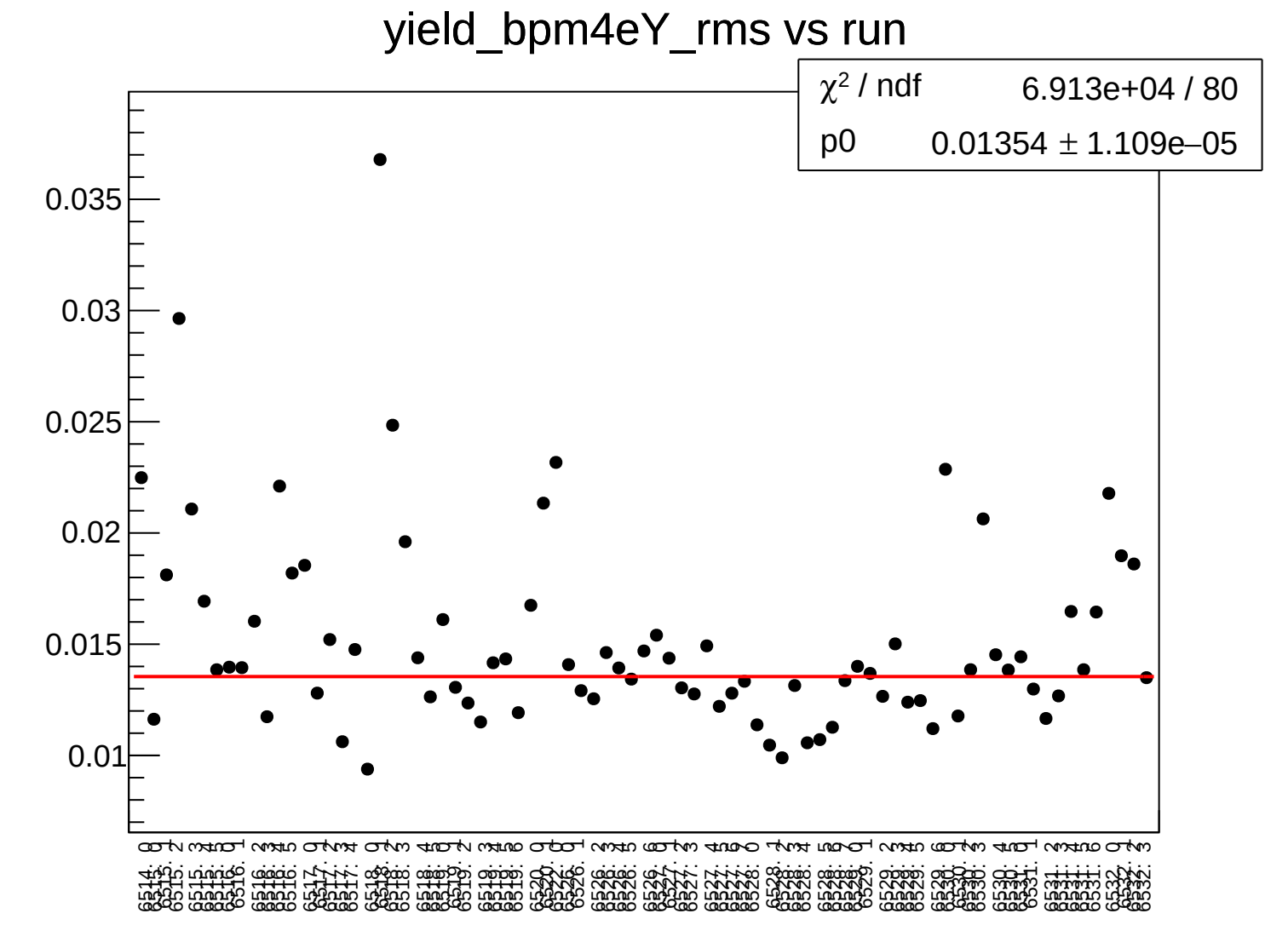

yield_bpm4eX_mean vs run
χ² / ndf 1.293e+06 / 80
p0 −0.4177 ± 3.476e−05
pull
Entries 81
Mean 108.7
Std Dev 0

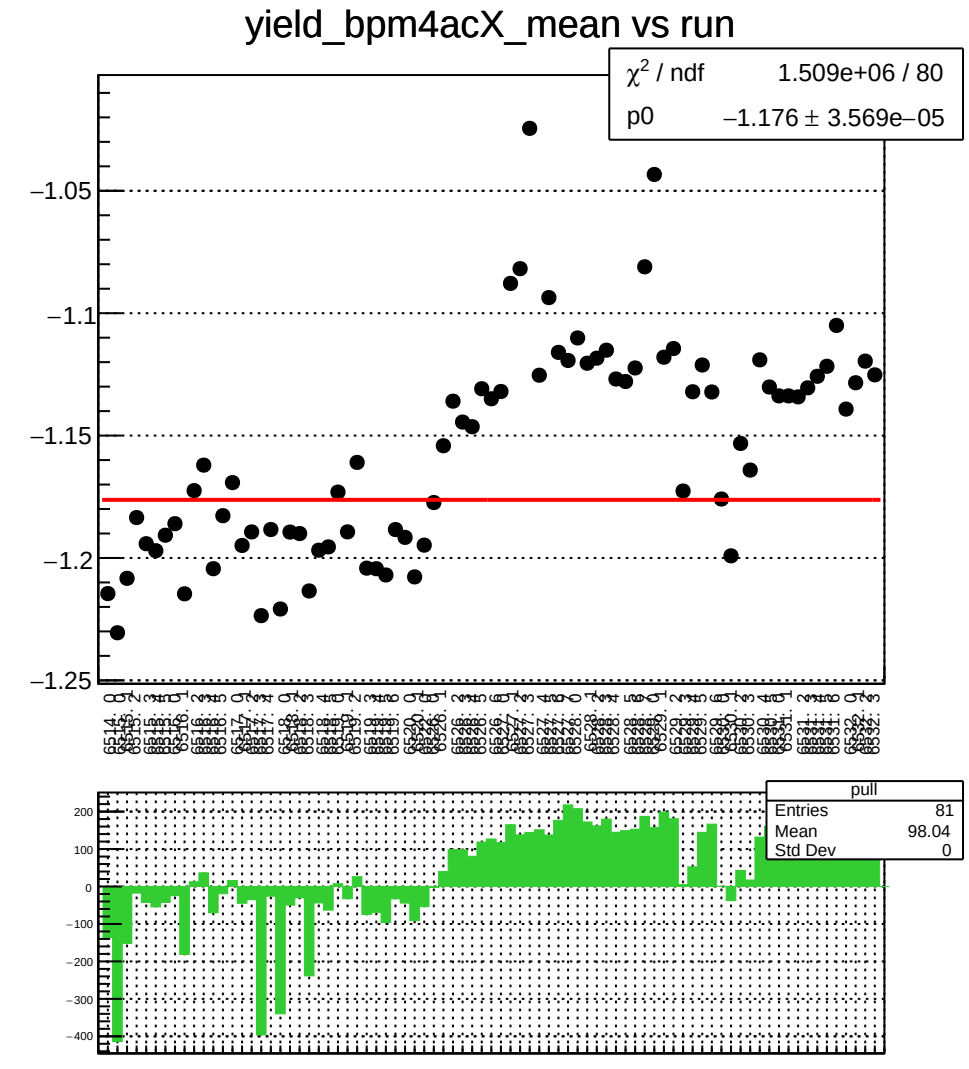

pull1D
Entries 81
Mean −4.597
Std Dev 2.927

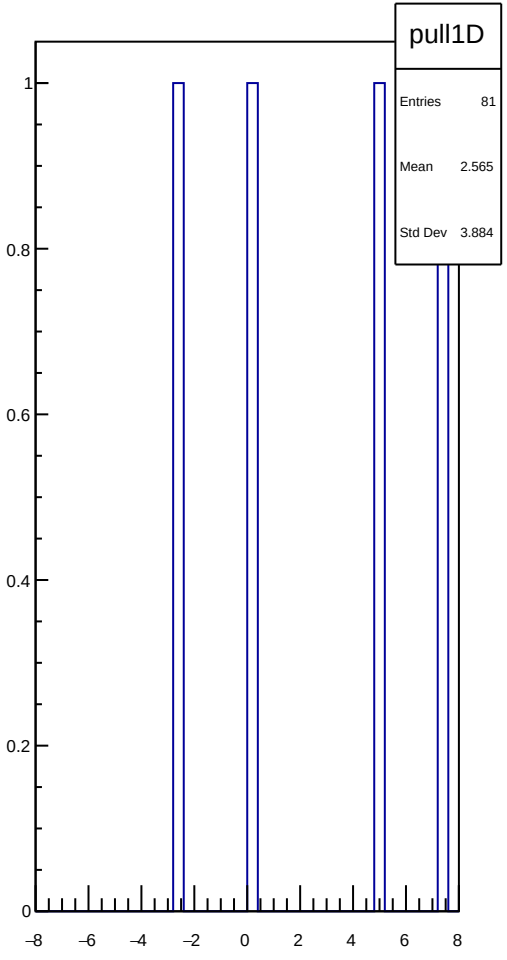

yield_bpm4eX_rms vs run
χ² / ndf 2.217e+05 / 80
p0 0.02844 ± 2.458e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

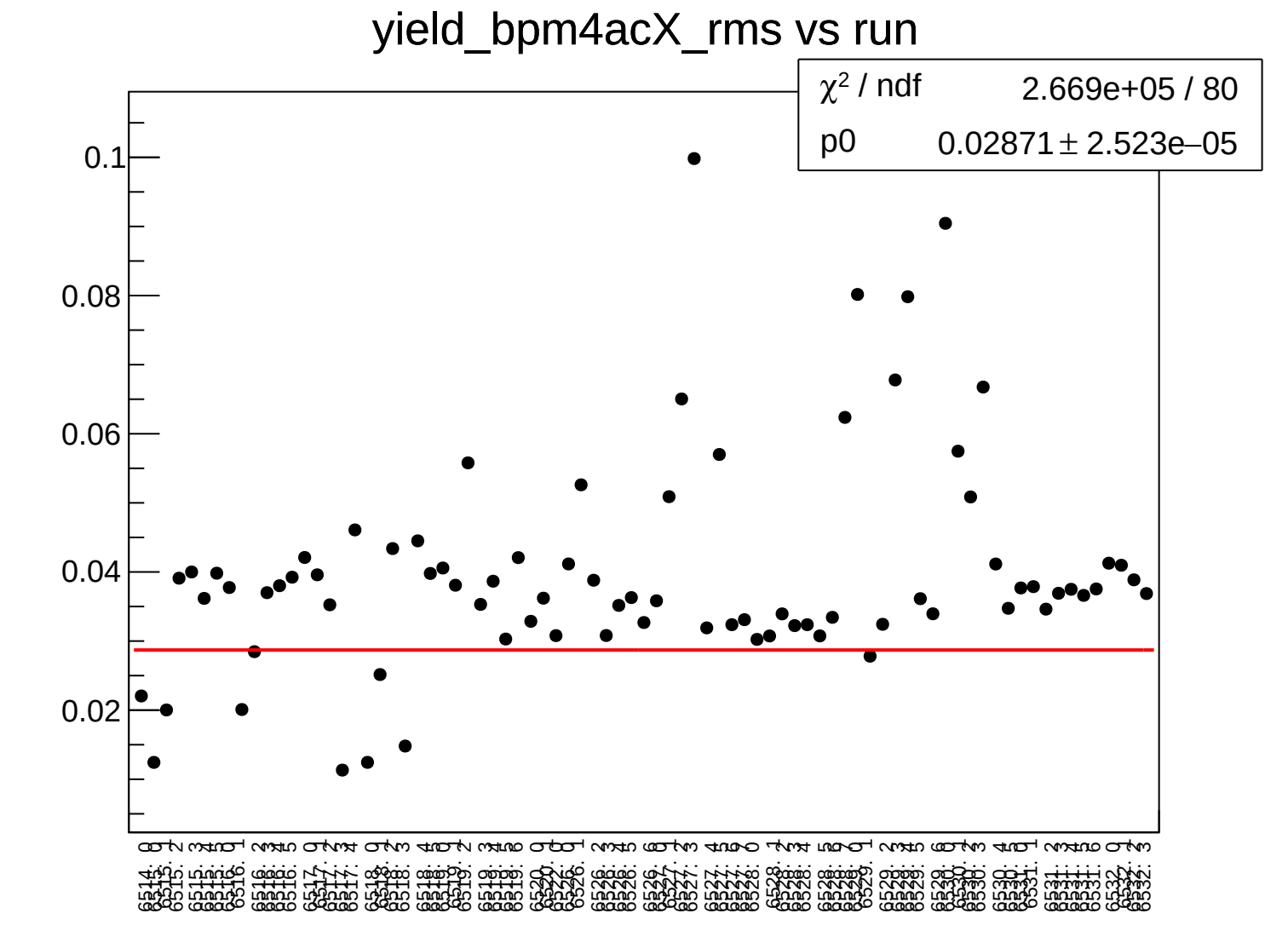

yield_bpm4eY_mean vs run
χ² / ndf 2.626e+05 / 80
p0 0.2784 ± 1.568e−05
0.3
0.29
0.28
0.27
0.26
0.25
0.24
pull
Entries 81
Mean 153
Std Dev 0
150
100
50
0
−50
−100
−150

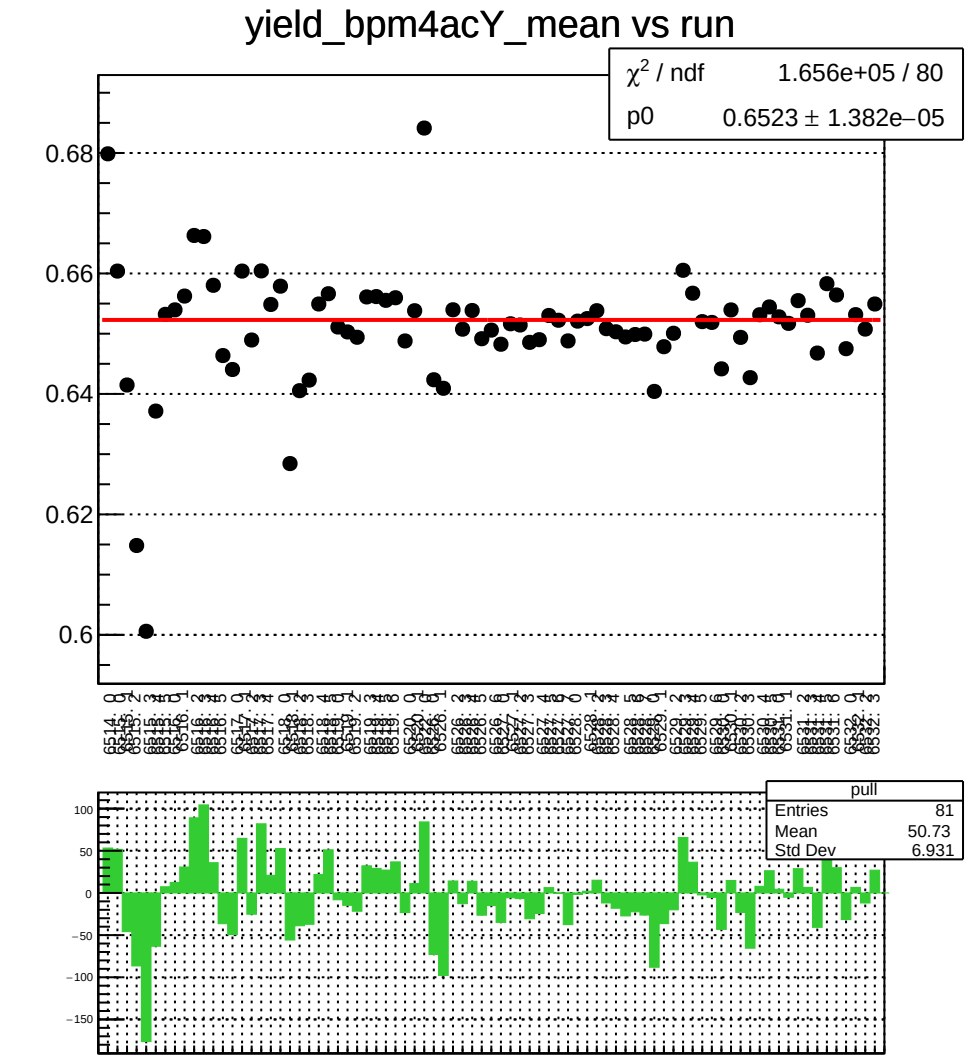

pull1D
Entries 81
Mean −0.6428
Std Dev 4.244
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

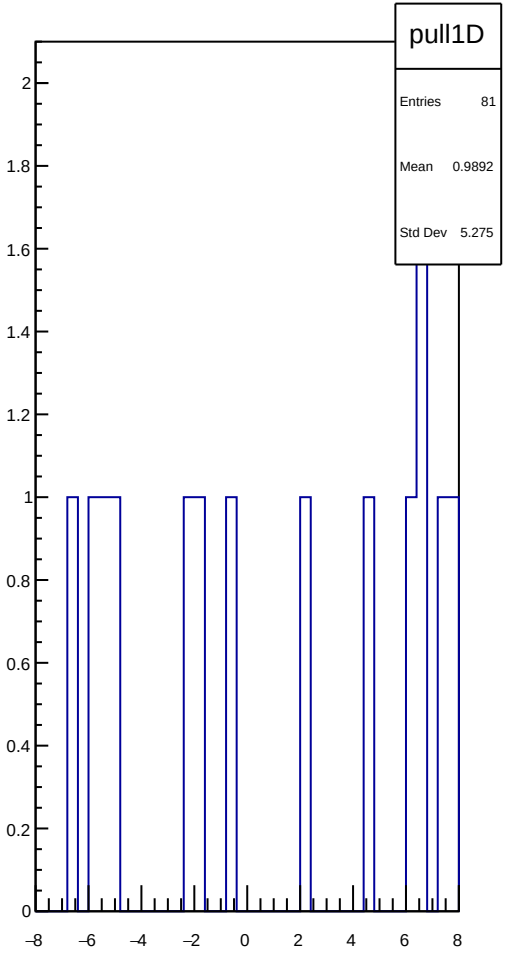

yield_bpm4eY_rms vs run
χ² / ndf 6.913e+04 / 80
p0 0.01354 ± 1.109e–05
0.035
0.03
0.025
0.02
0.015
0.01

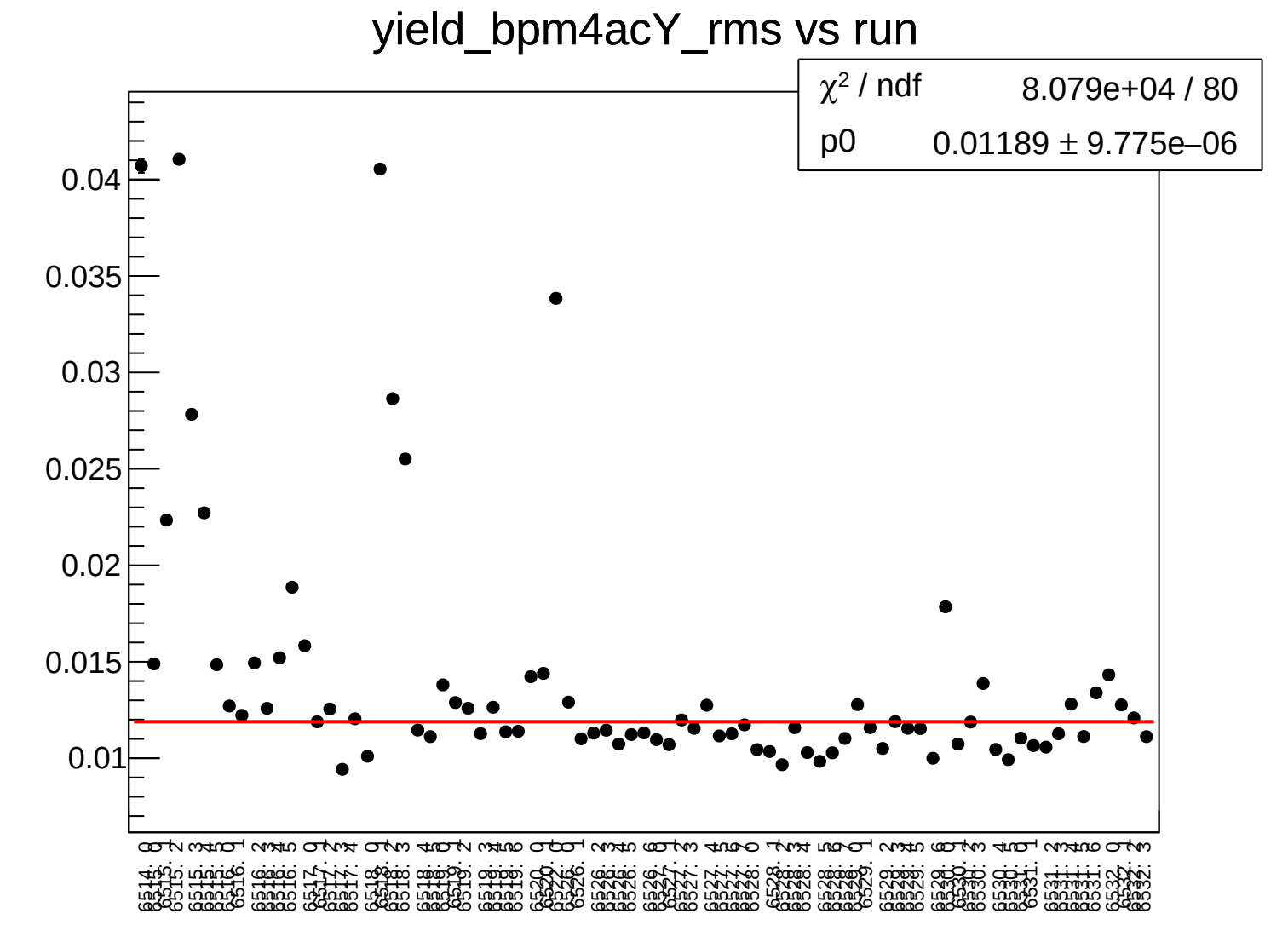

yield_bpm4acX_mean vs run
χ² / ndf 1.509e+06 / 80
p0 −1.176 ± 3.569e−05
−1.05
−1.1
−1.15
−1.2
−1.25
pull
Entries 81
Mean 98.04
Std Dev 0
200
100
0
−100
−200
−300
−400

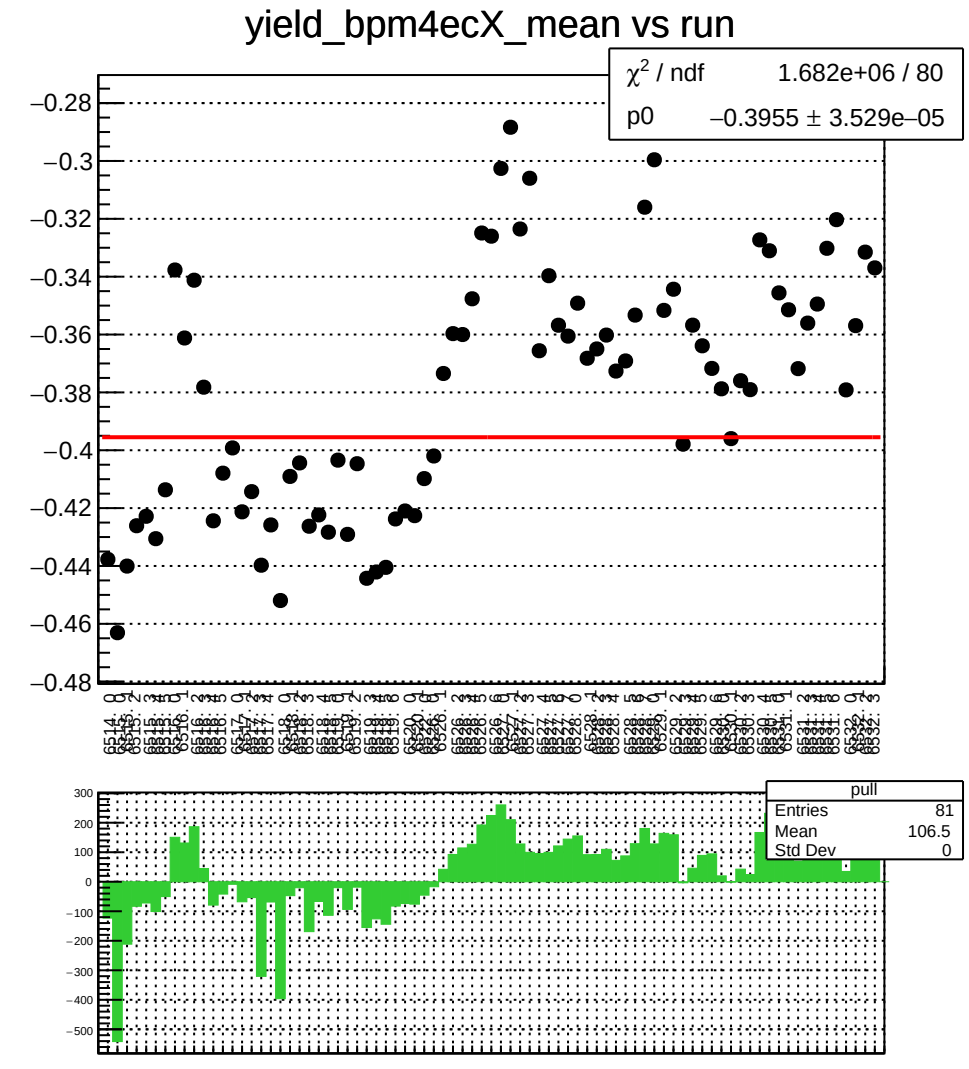

pull1D
Entries 81
Mean 2.565
Std Dev 3.884
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

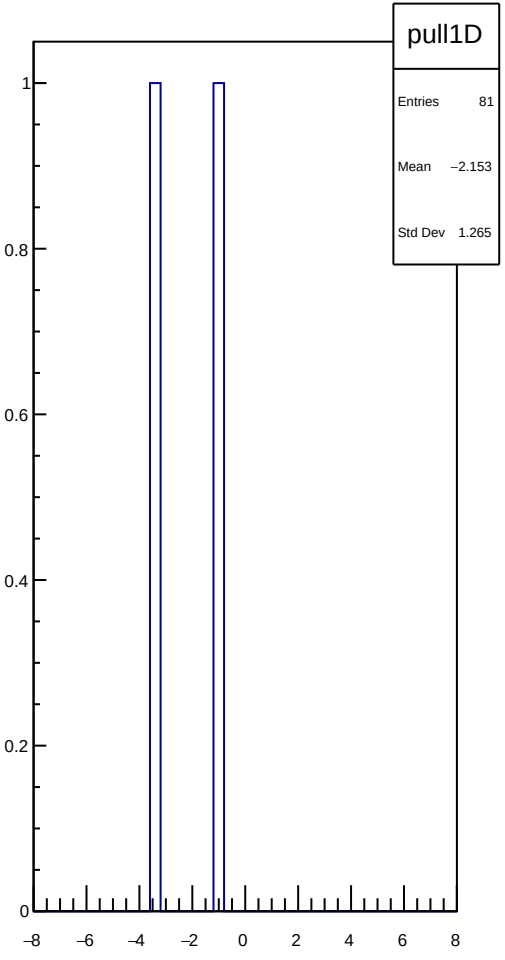

yield_bpm4acX_rms vs run
χ² / ndf 2.669e+05 / 80
p0 0.02871 ± 2.523e–05
0.1
0.08
0.06
0.04
0.02

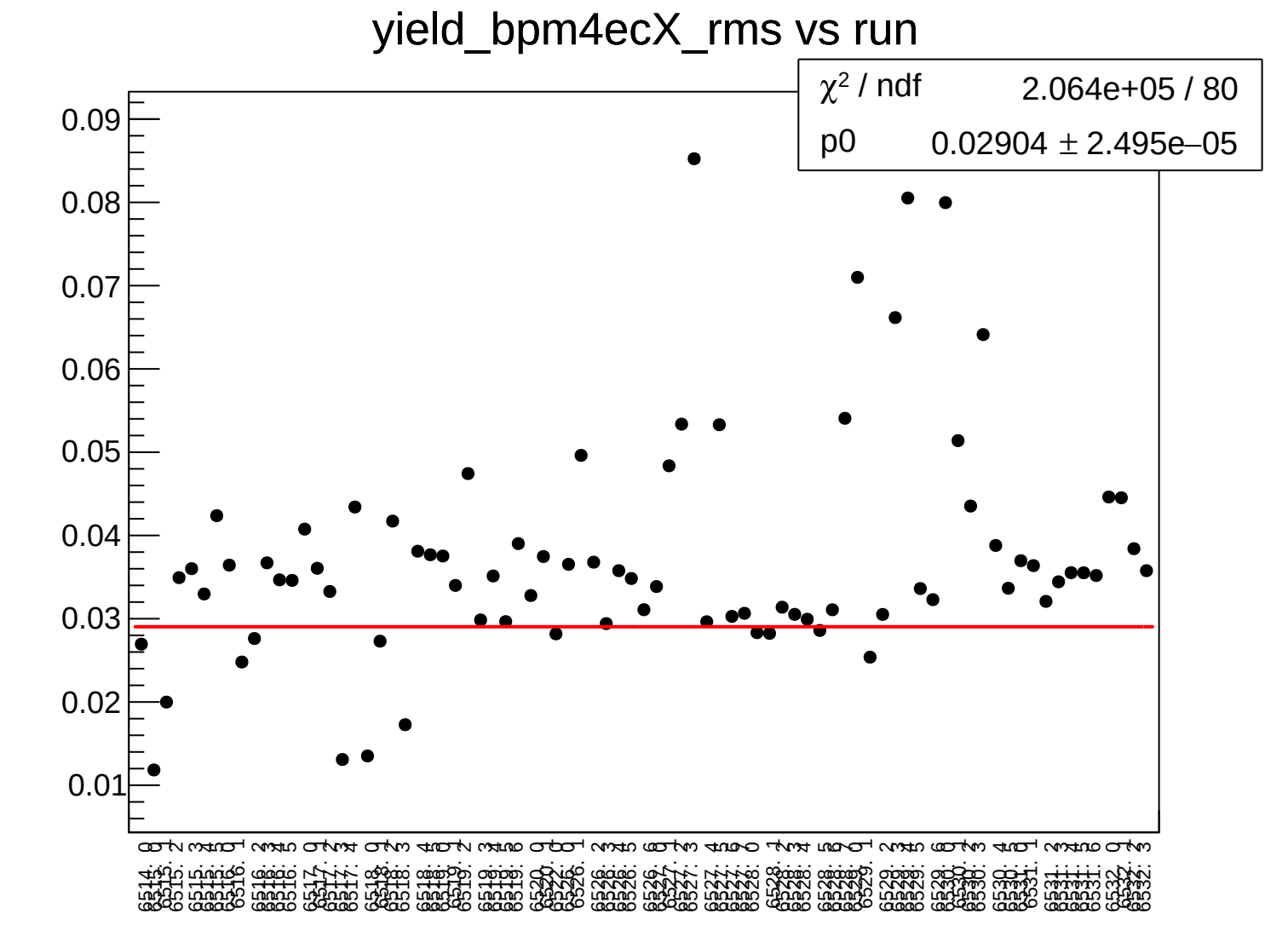

yield_bpm4acY_mean vs run
χ² / ndf 1.656e+05 / 80
p0 0.6523 ± 1.382e−05
0.68
0.66
0.64
0.62
0.6
pull
Entries 81
Mean 50.73
Std Dev 6.931
100
50
0
−50
−100
−150

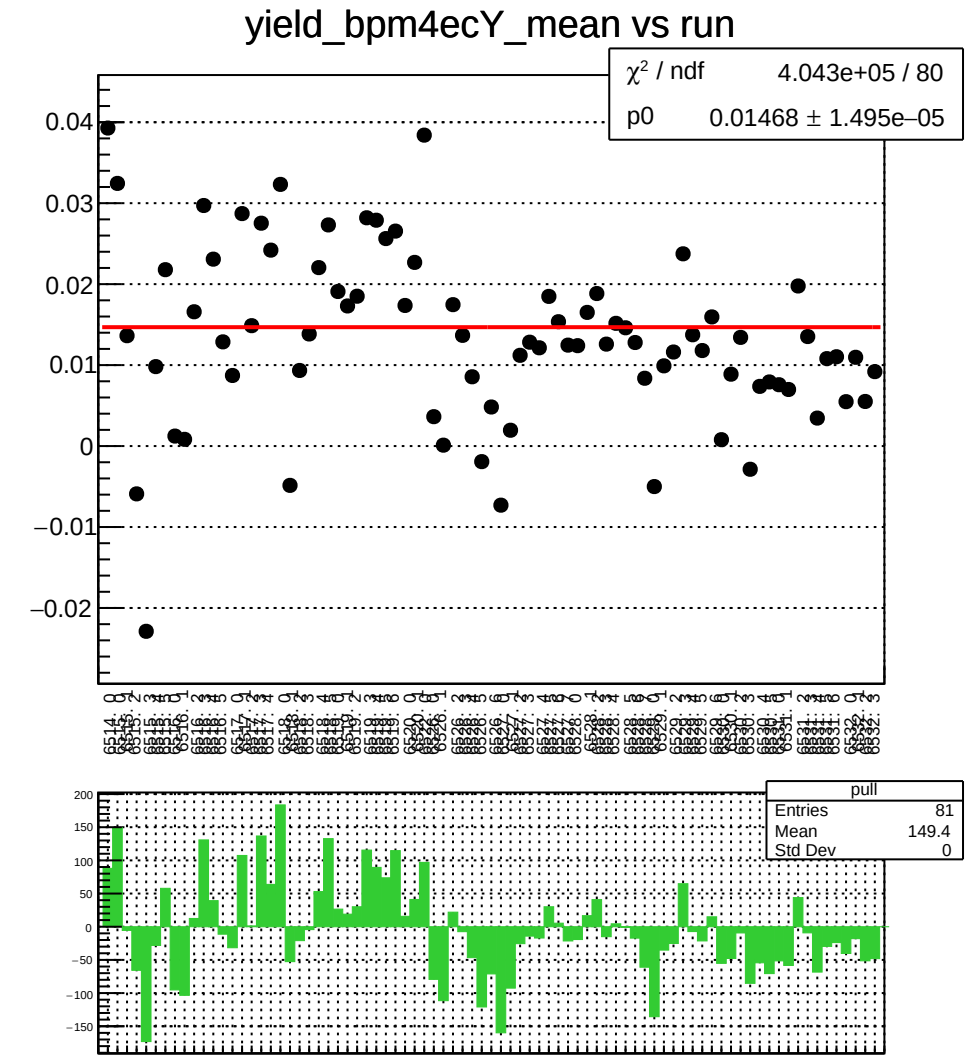

pull1D
Entries 81
Mean 0.9892
Std Dev 5.275
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

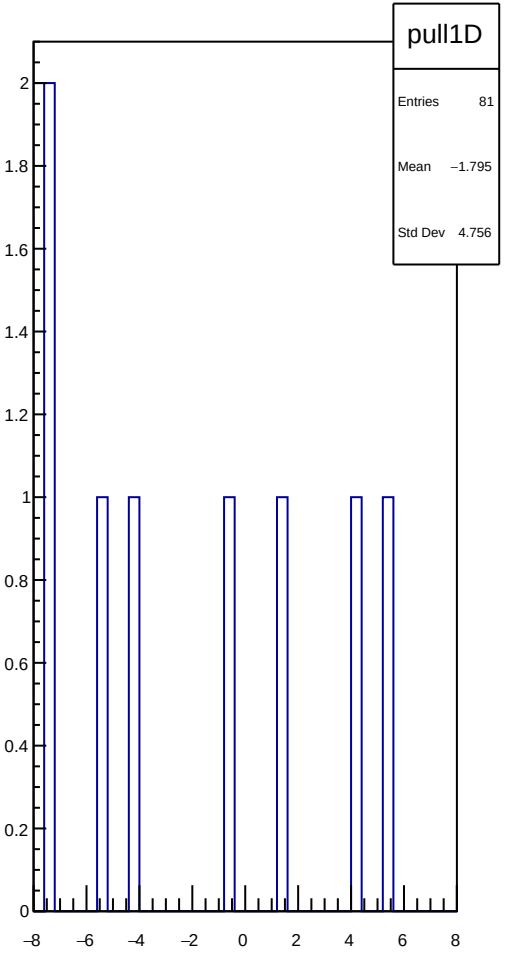

yield_bpm4acY_rms vs run
χ² / ndf 8.079e+04 / 80
p0 0.01189 ± 9.775e–06
0.04
0.035
0.03
0.025
0.02
0.015
0.01

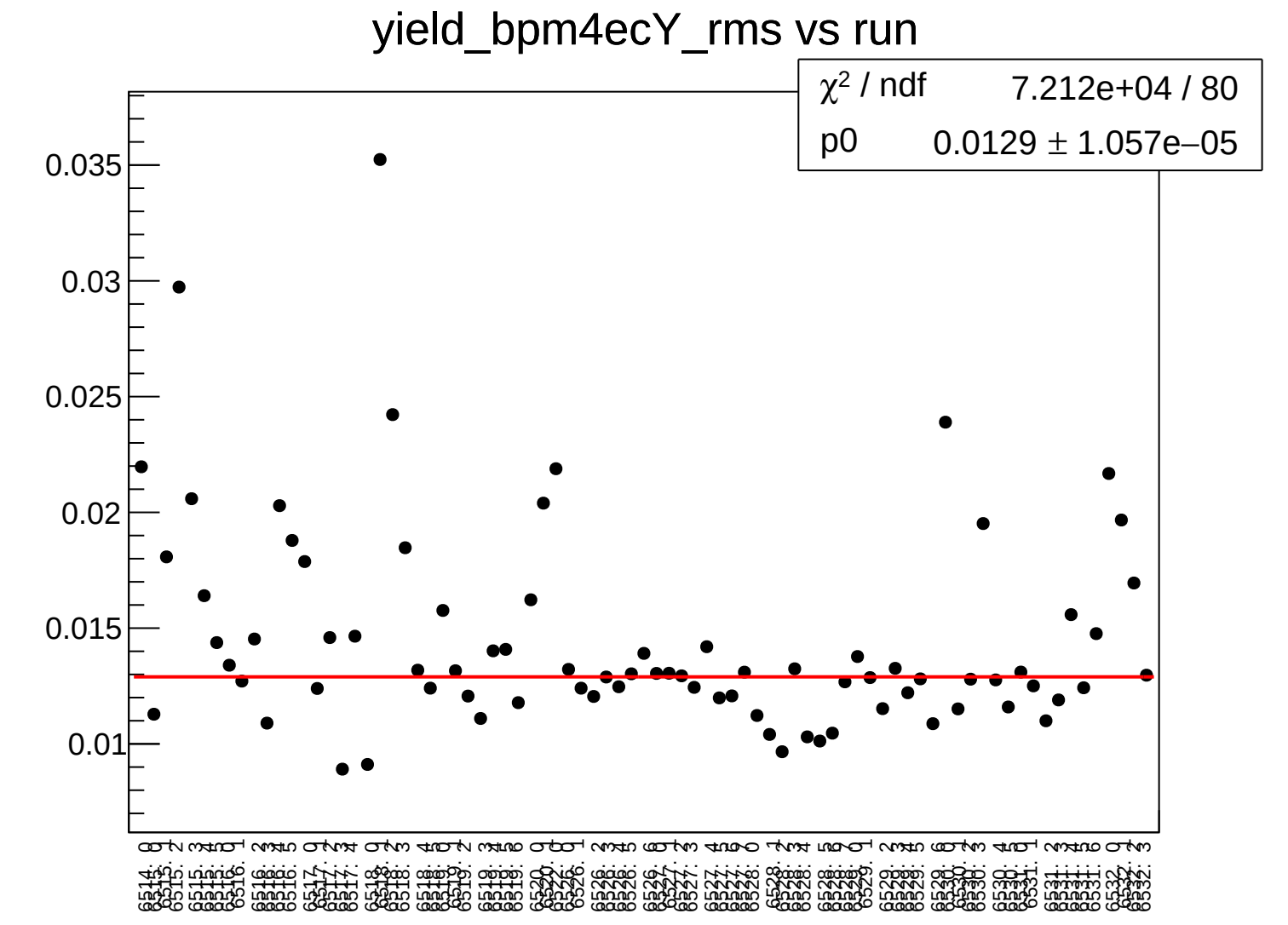

yield_bpm4ecX_mean vs run
χ² / ndf 1.682e+06 / 80
p0 −0.3955 ± 3.529e−05
pull
Entries 81
Mean 106.5
Std Dev 0

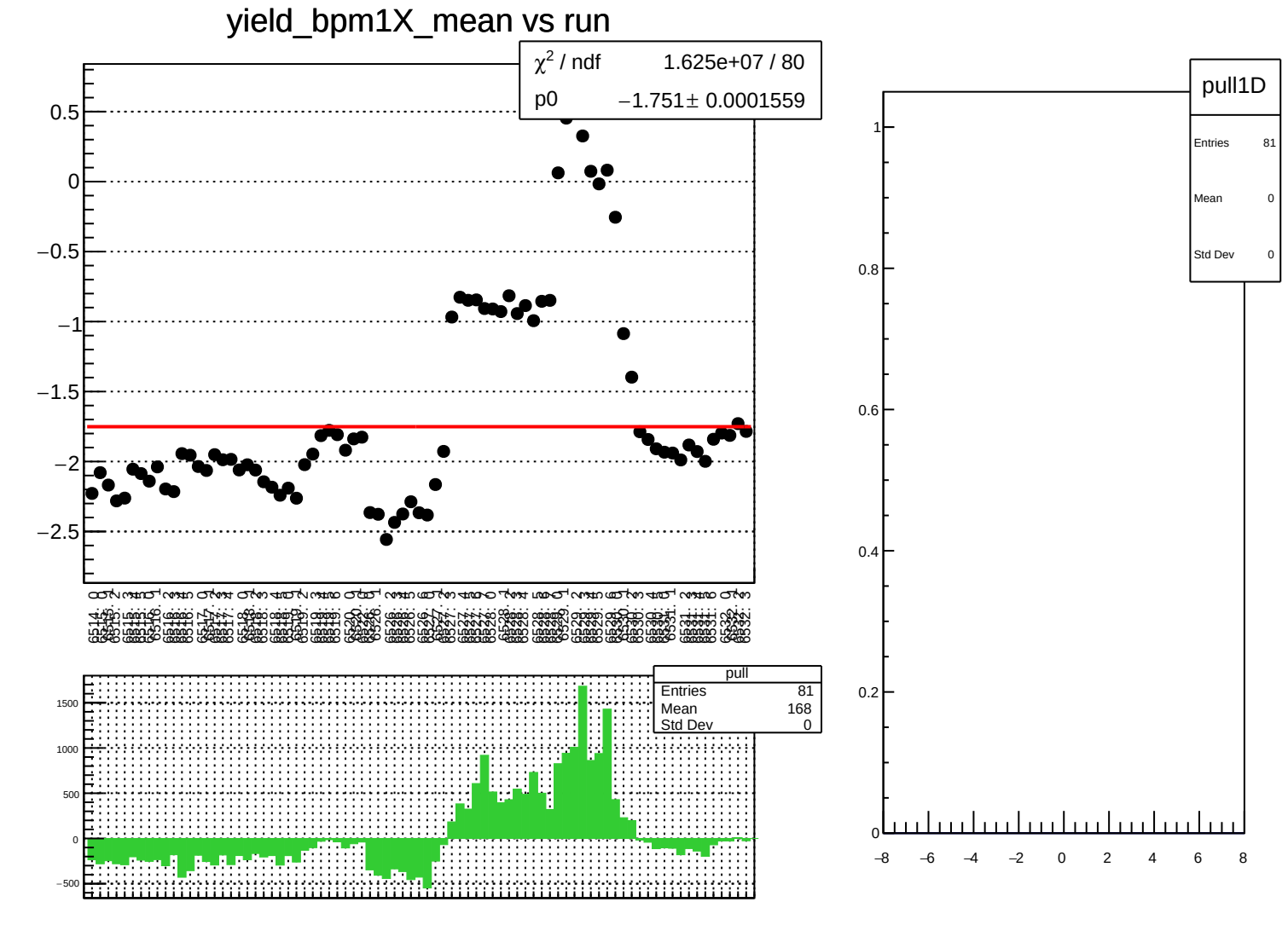

pull1D
Entries 81
Mean −2.153
Std Dev 1.265

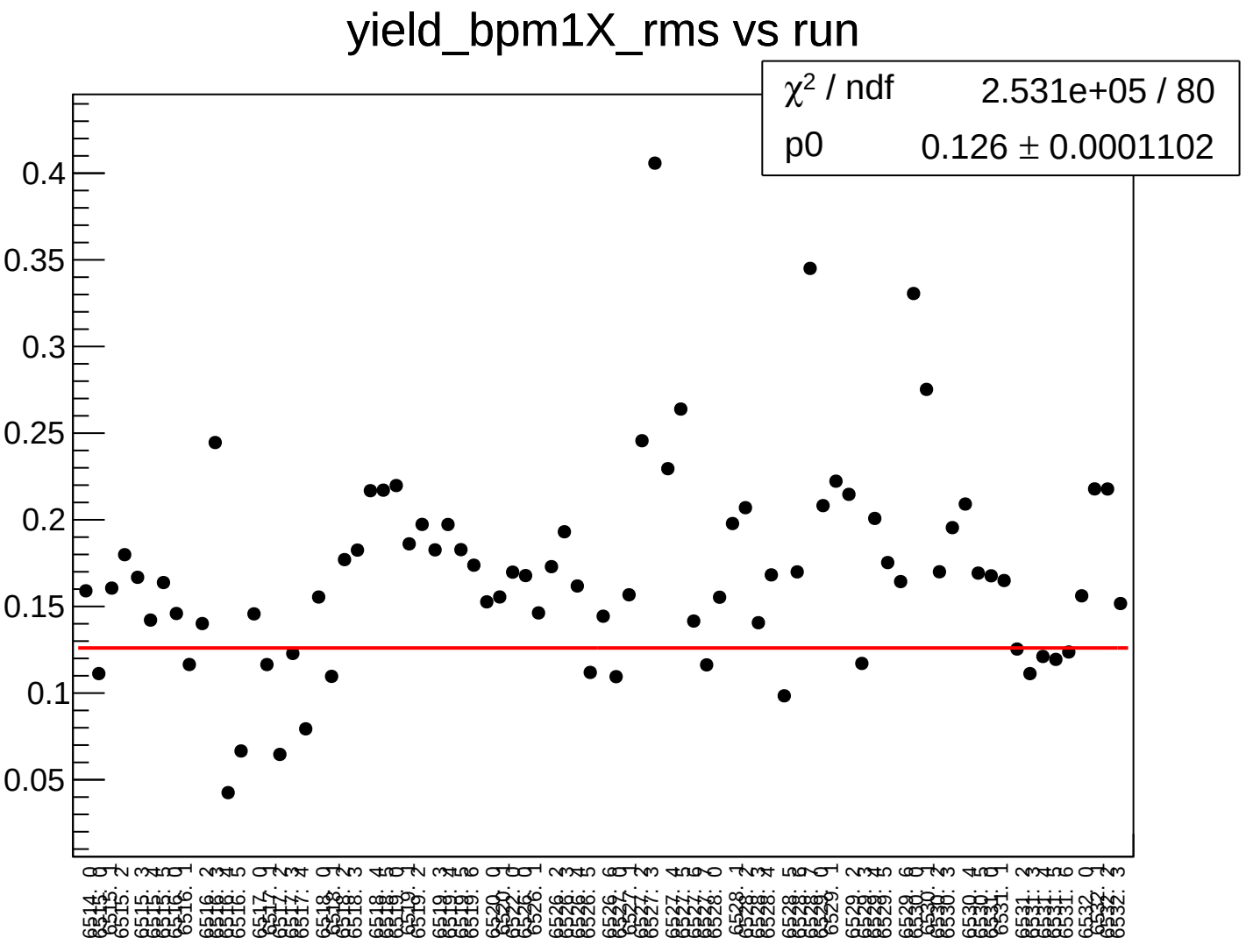

yield_bpm4ecX_rms vs run
χ² / ndf 2.064e+05 / 80
p0 0.02904 ± 2.495e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

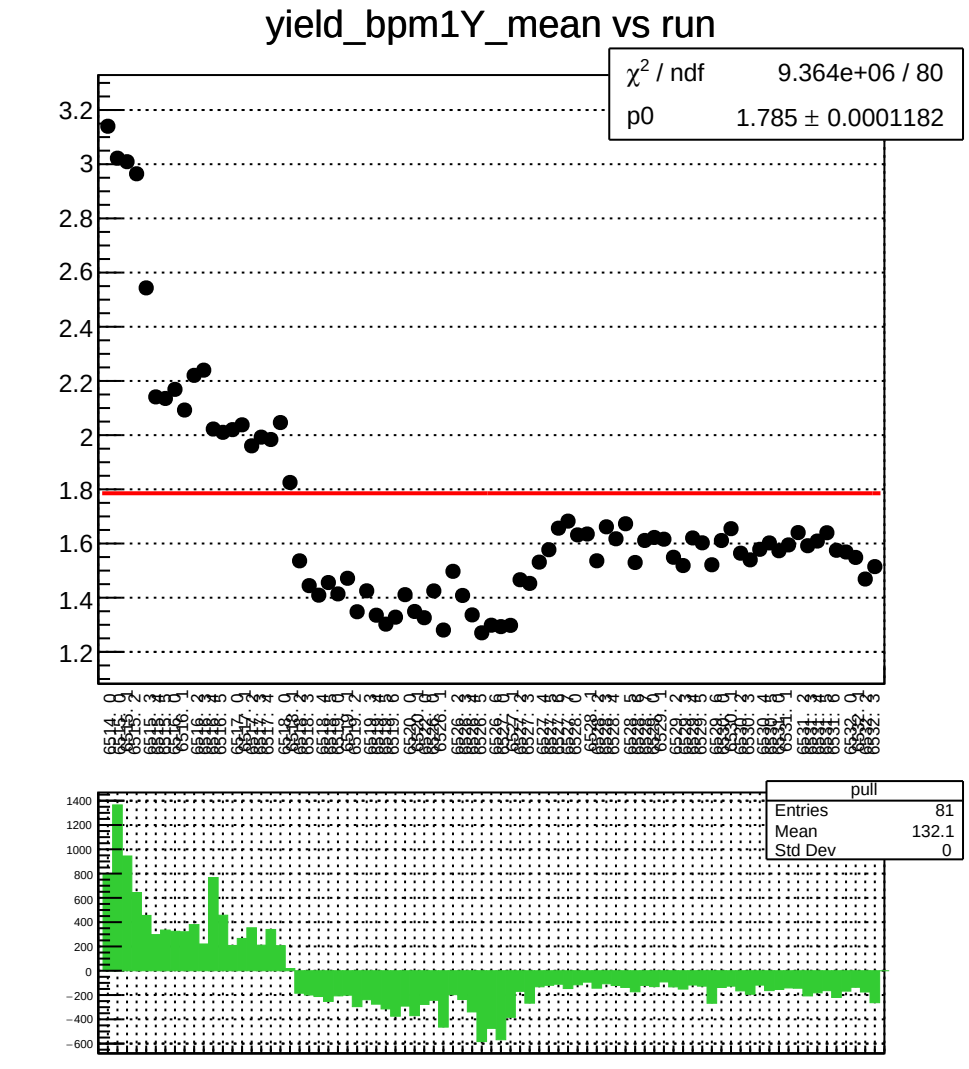

yield_bpm4ecY_mean vs run
χ² / ndf 4.043e+05 / 80
p0 0.01468 ± 1.495e−05
0.04
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 81
Mean 149.4
Std Dev 0
200
150
100
50
0
−50
−100
−150

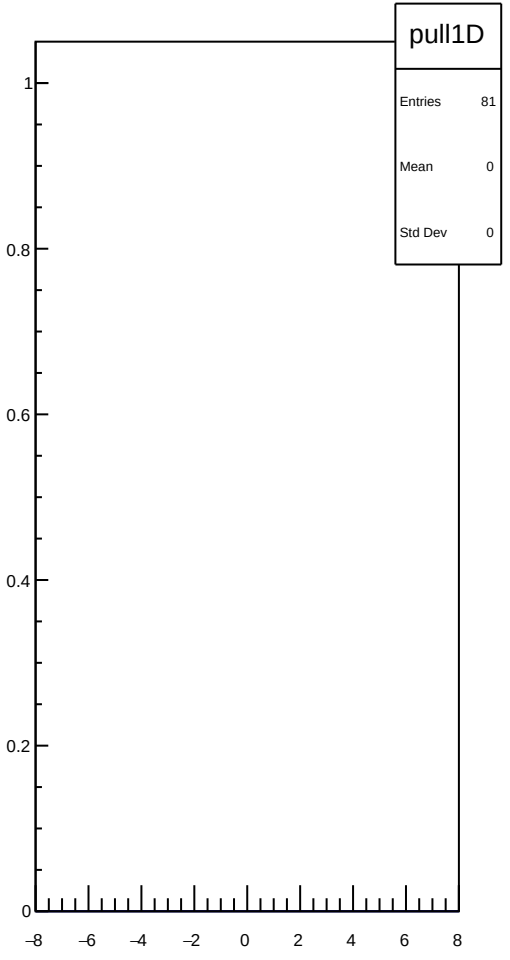

pull1D
Entries 81
Mean −1.795
Std Dev 4.756
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

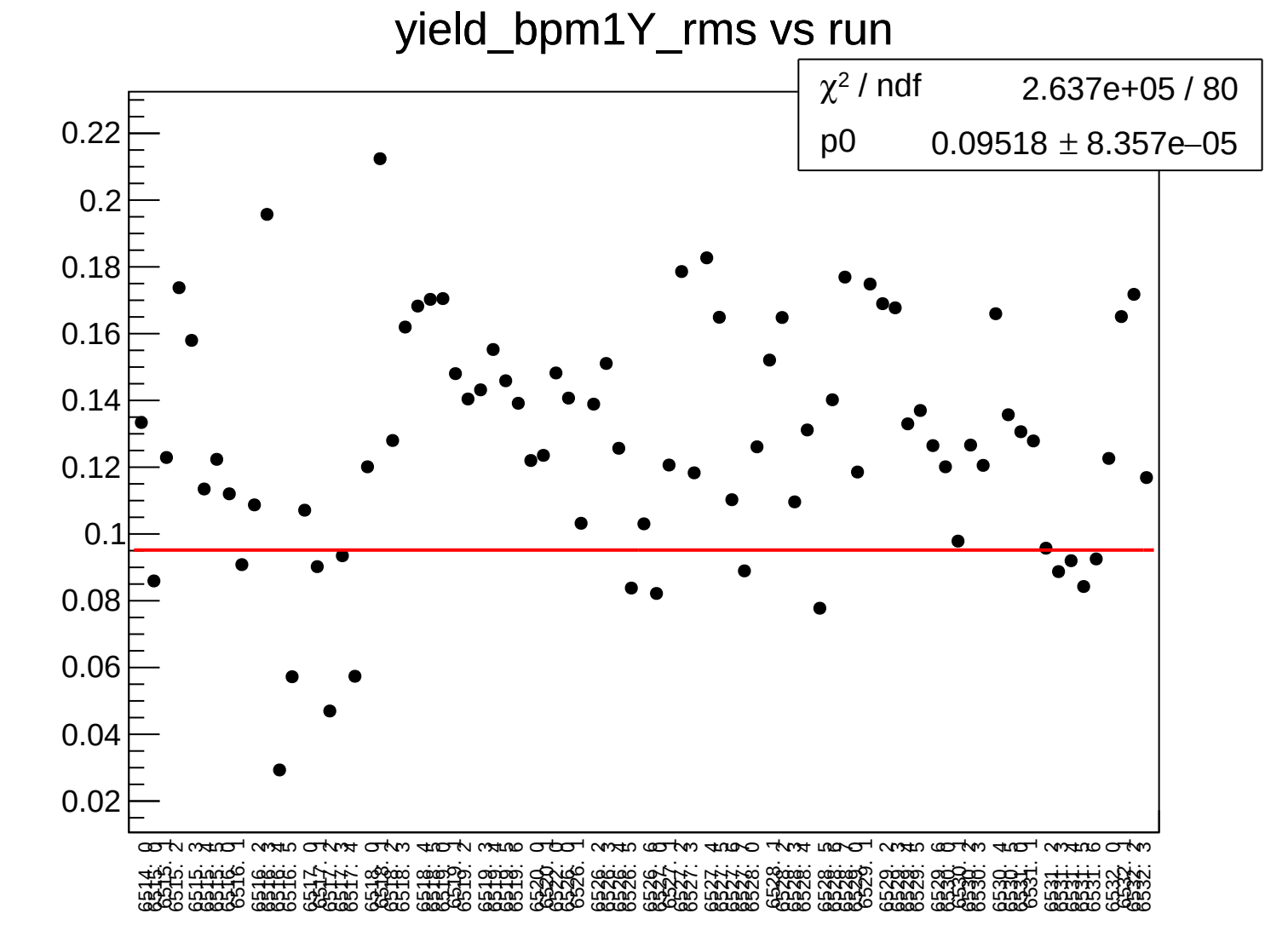

yield_bpm4ecY_rms vs run
χ² / ndf 7.212e+04 / 80
p0 0.0129 ± 1.057e−05
0.035
0.03
0.025
0.02
0.015
0.01

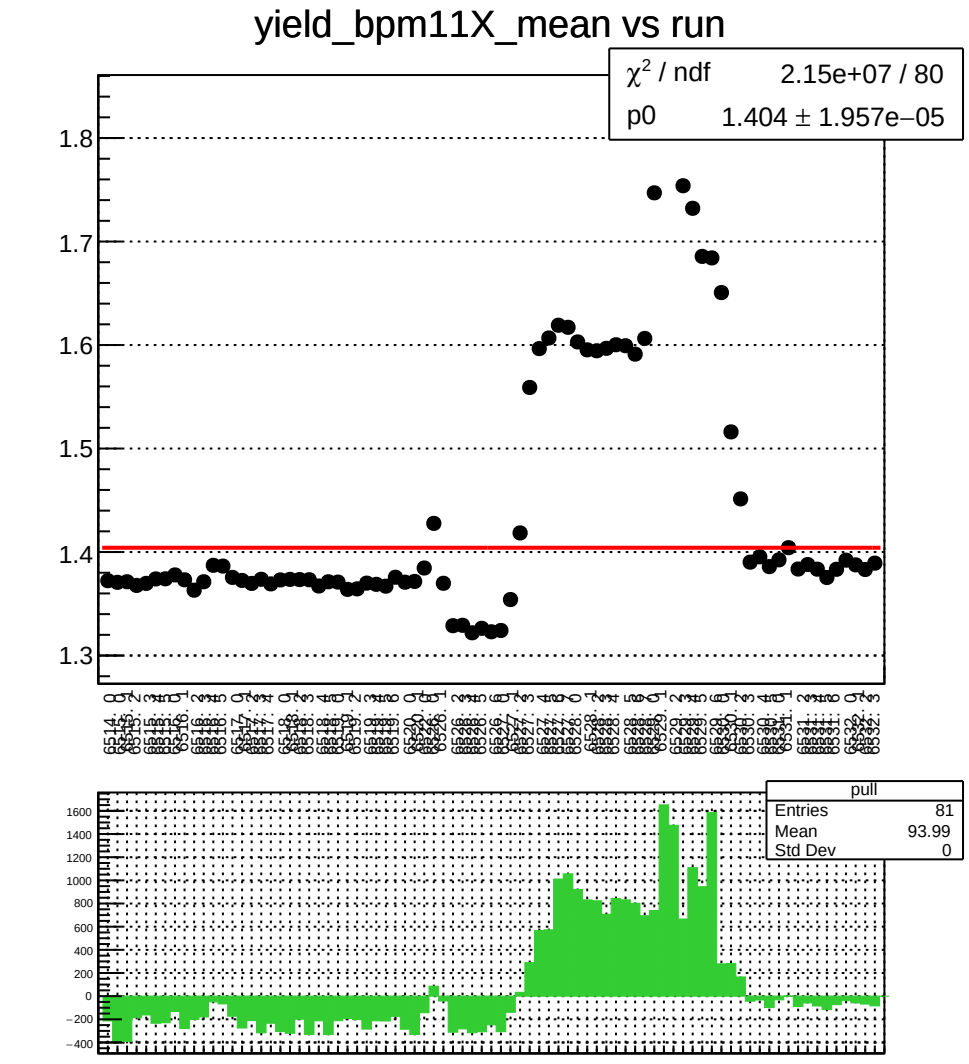

yield_bpm1X_mean vs run
χ² / ndf 1.625e+07 / 80
p0 −1.751± 0.0001559
pull
Entries 81
Mean 168
Std Dev 0
pull1D
Entries 81
Mean 0
Std Dev 0

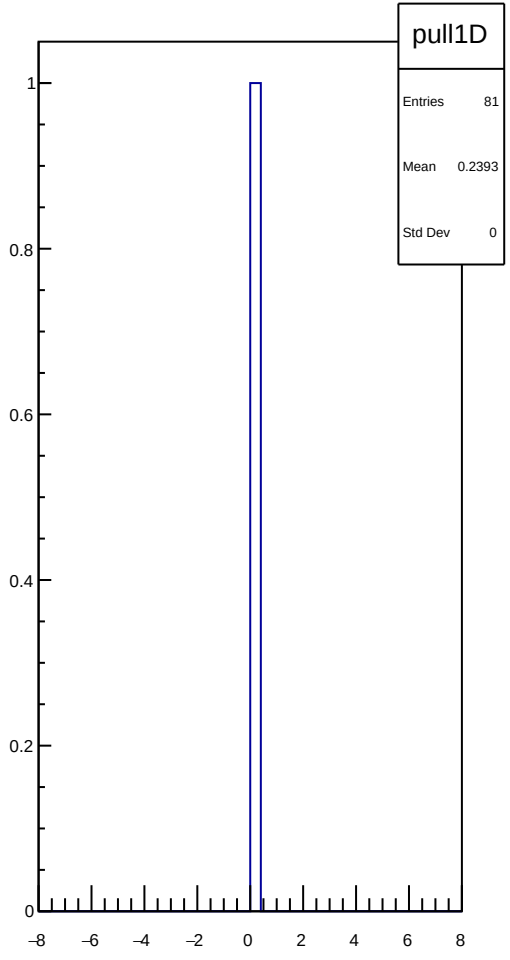

yield_bpm1X_rms vs run
χ² / ndf 2.531e+05 / 80
p0 0.126 ± 0.0001102
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

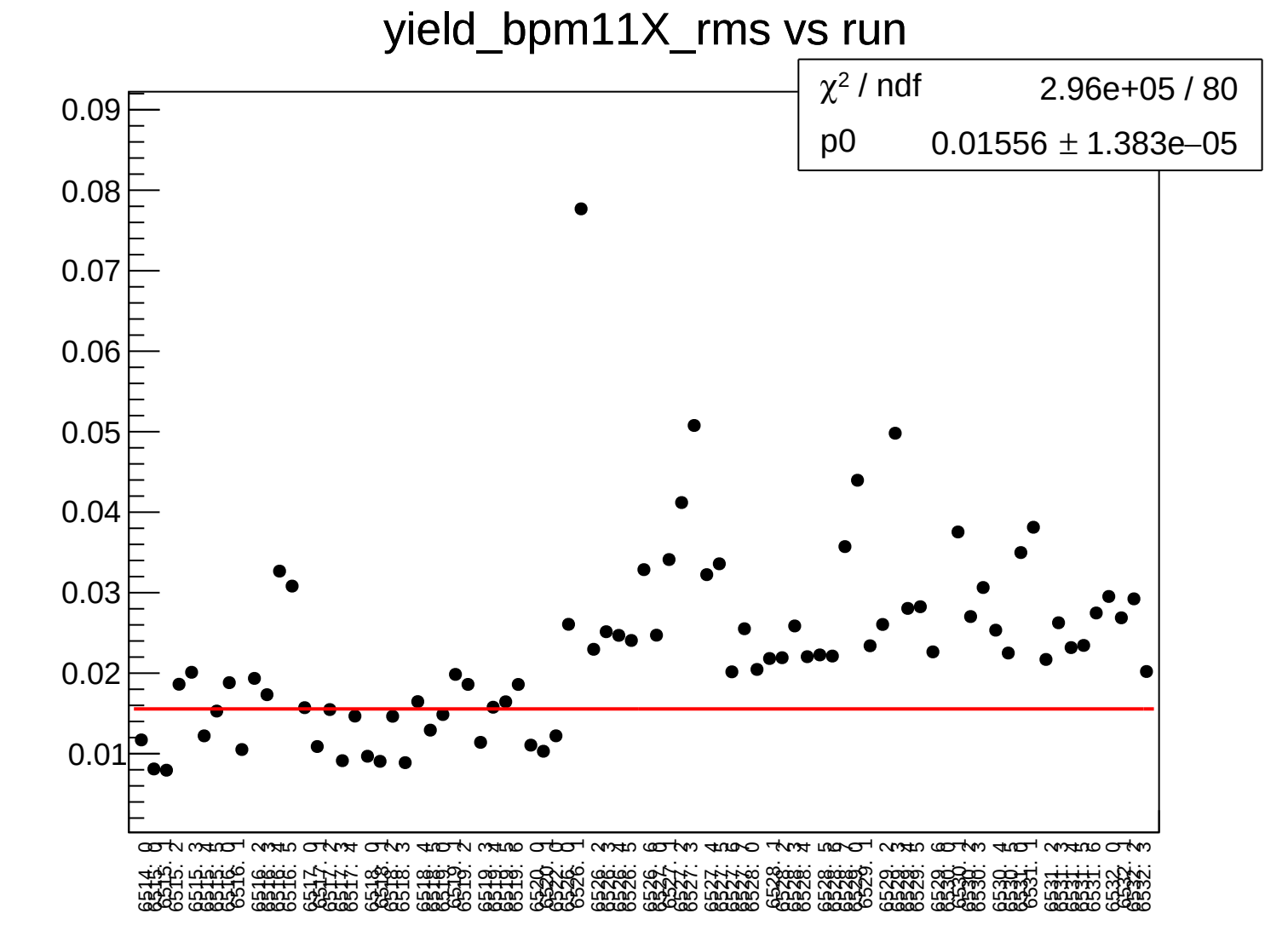

yield_bpm1Y_mean vs run
χ² / ndf 9.364e+06 / 80
p0 1.785 ± 0.0001182
pull
Entries 81
Mean 132.1
Std Dev 0

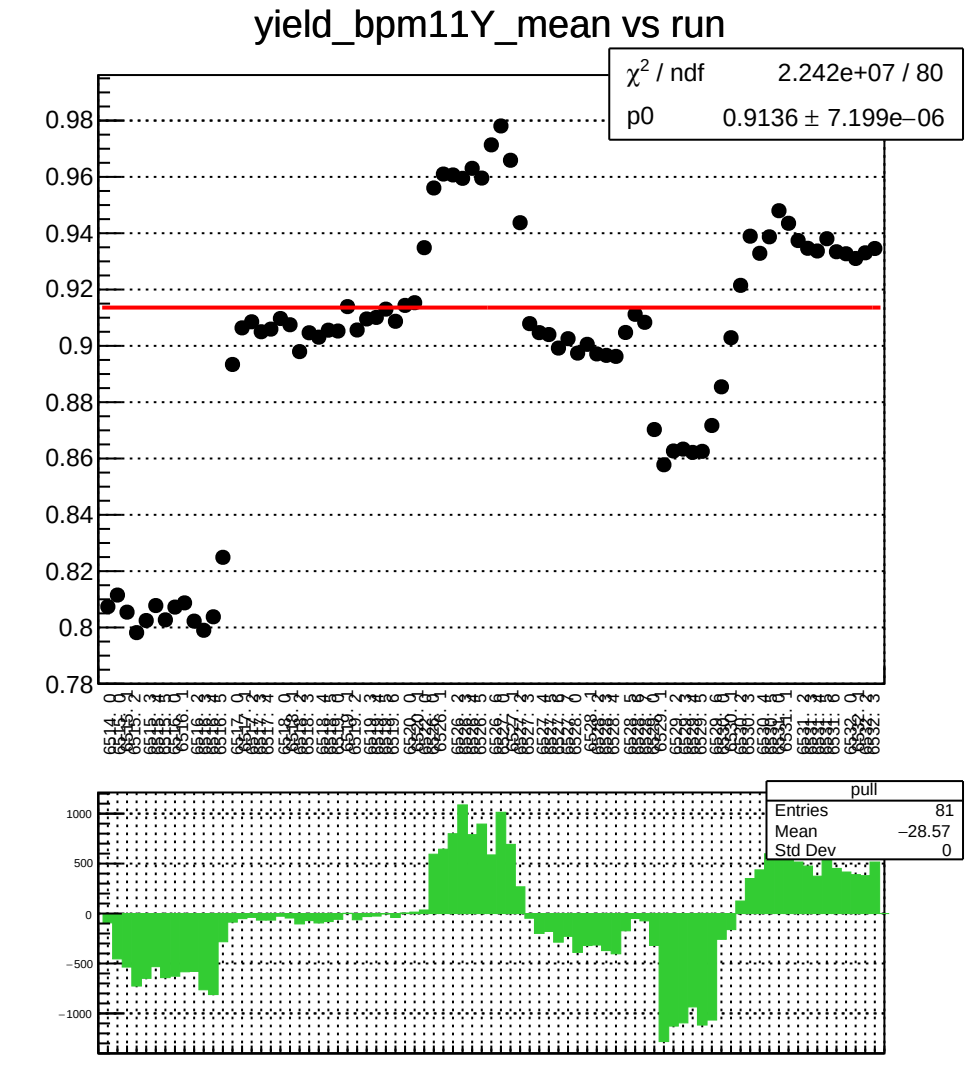

pull1D
Entries 81
Mean 0
Std Dev 0

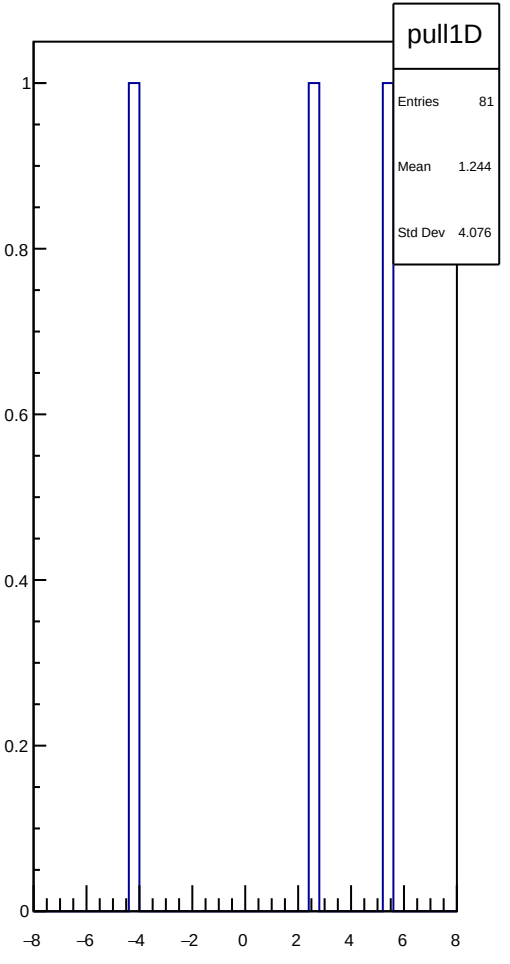

yield_bpm1Y_rms vs run
χ² / ndf 2.637e+05 / 80
p0 0.09518 ± 8.357e–05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

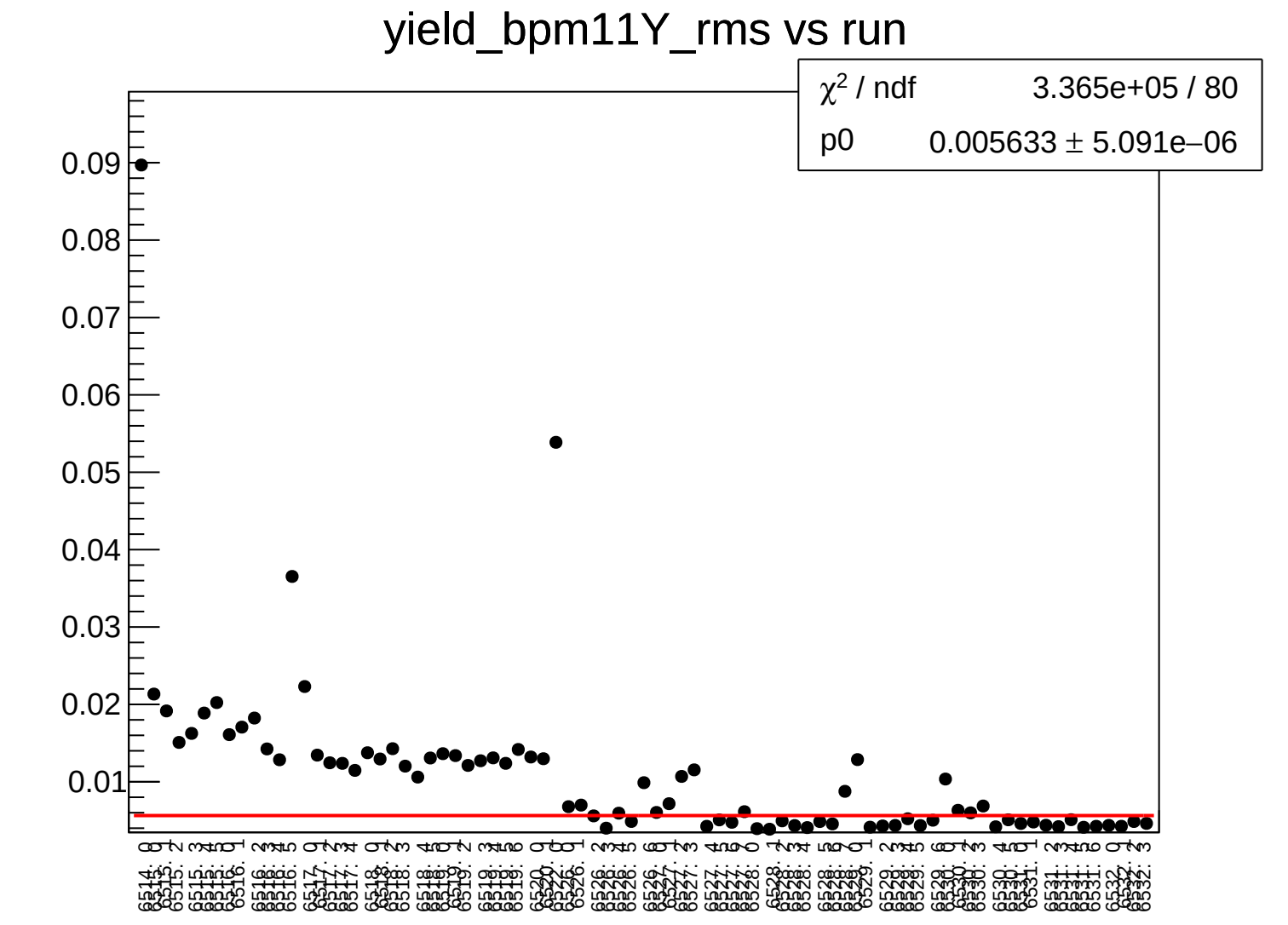

yield_bpm11X_mean vs run
χ² / ndf 2.15e+07 / 80
p0 1.404 ± 1.957e−05
1.8
1.7
1.6
1.5
1.4
1.3
pull
Entries 81
Mean 93.99
Std Dev 0
1600
1400
1200
1000
800
600
400
200
0
−200
−400

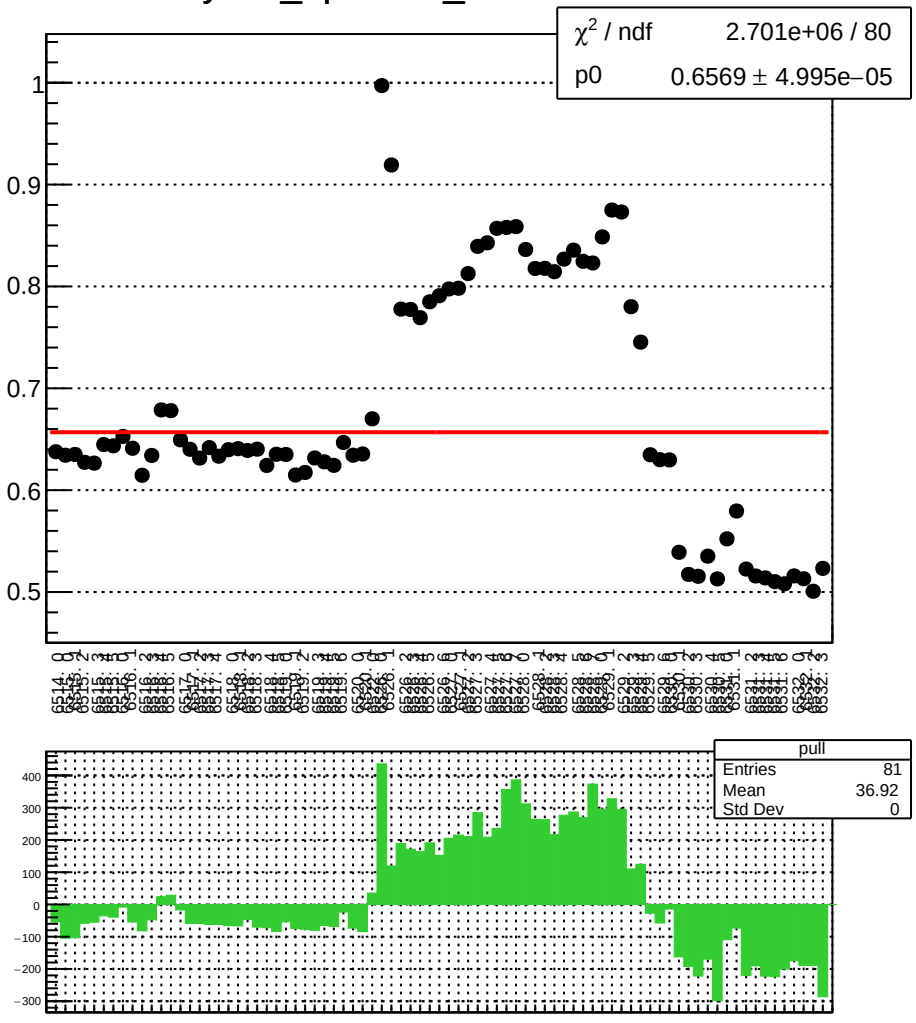

pull1D
Entries 81
Mean 0.2393
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

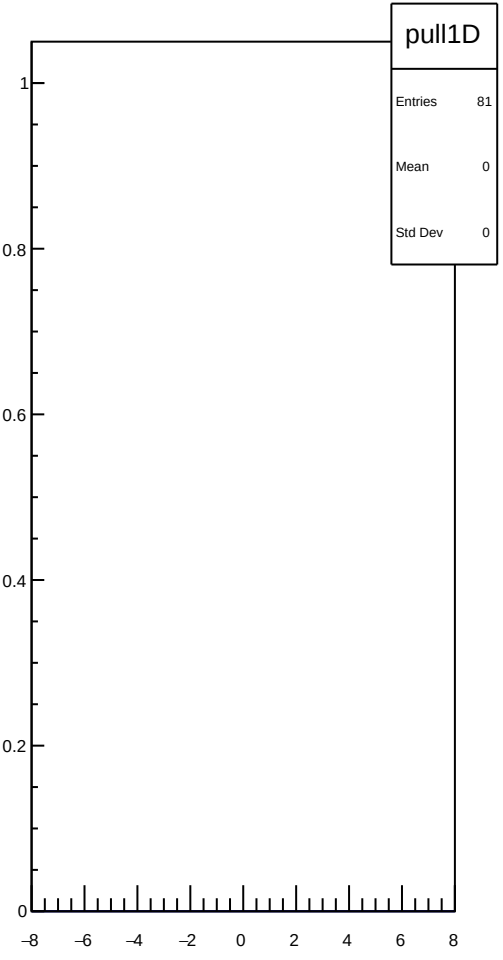

yield_bpm11X_rms vs run
χ² / ndf 2.96e+05 / 80
p0 0.01556 ± 1.383e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

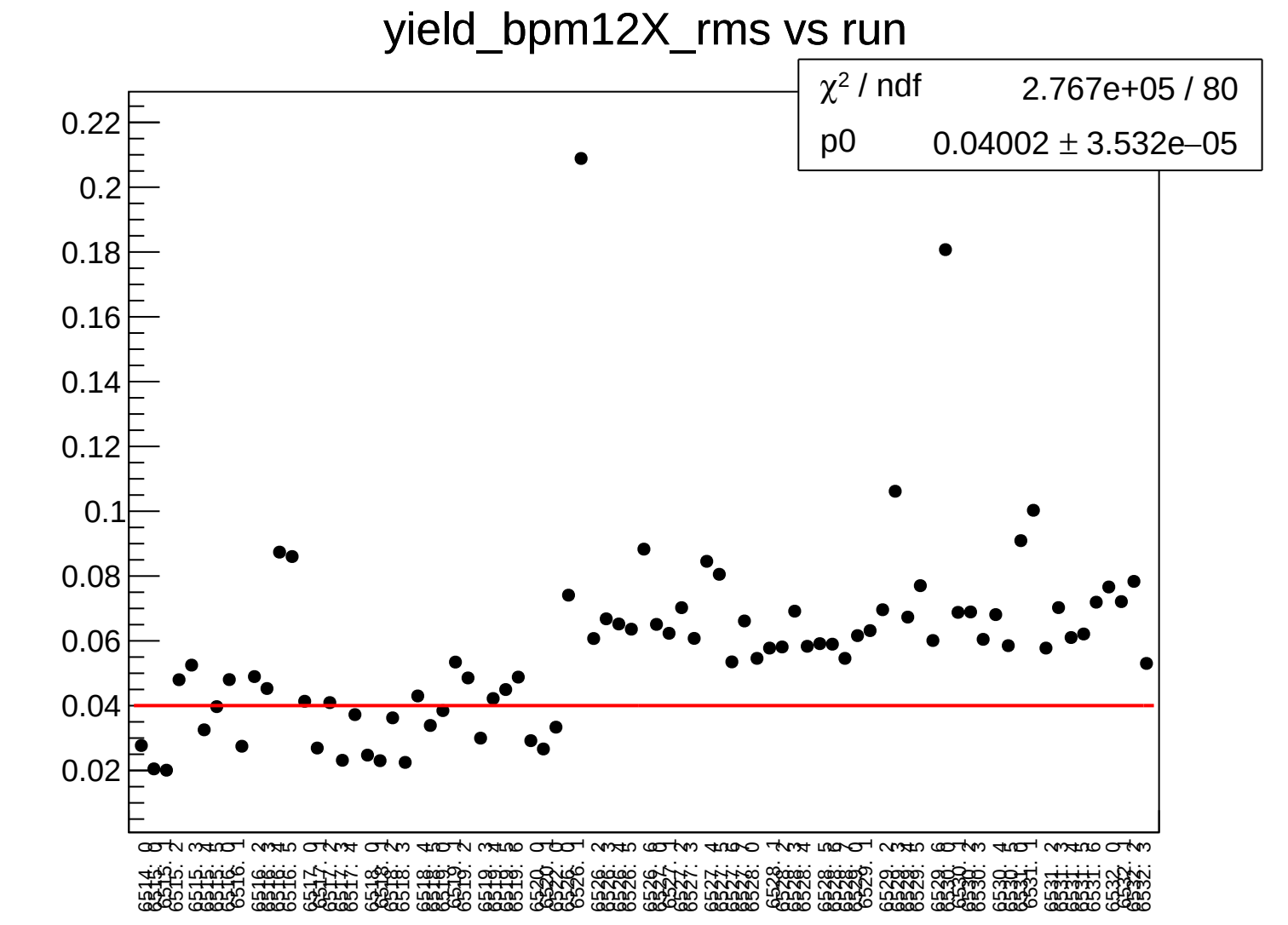

yield_bpm11Y_mean vs run
χ² / ndf 2.242e+07 / 80
p0 0.9136 ± 7.199e−06
0.98
0.96
0.94
0.92
0.9
0.88
0.86
0.84
0.82
0.8
0.78
pull
Entries 81
Mean −28.57
Std Dev 0
1000
500
0
−500
−1000

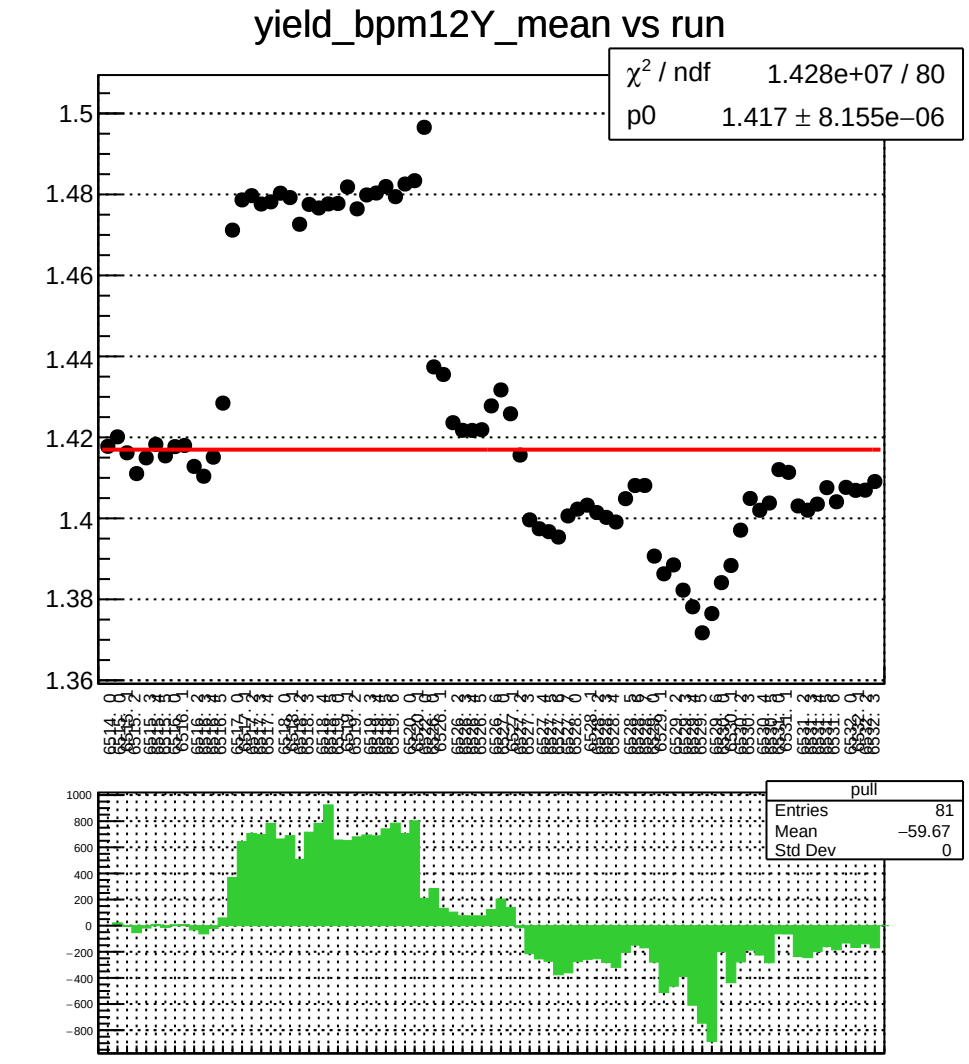

pull1D
Entries 81
Mean 1.244
Std Dev 4.076
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

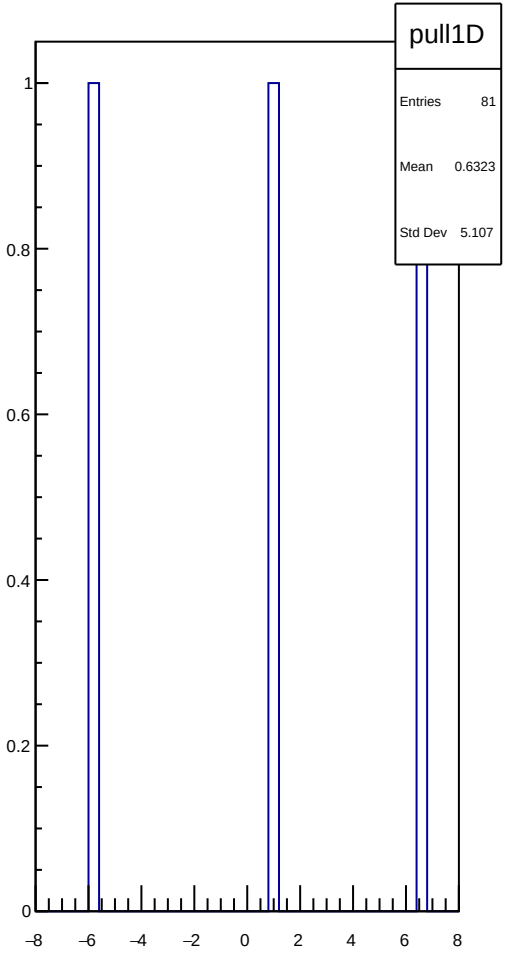

yield_bpm11Y_rms vs run
χ² / ndf 3.365e+05 / 80
p0 0.005633 ± 5.091e−06
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

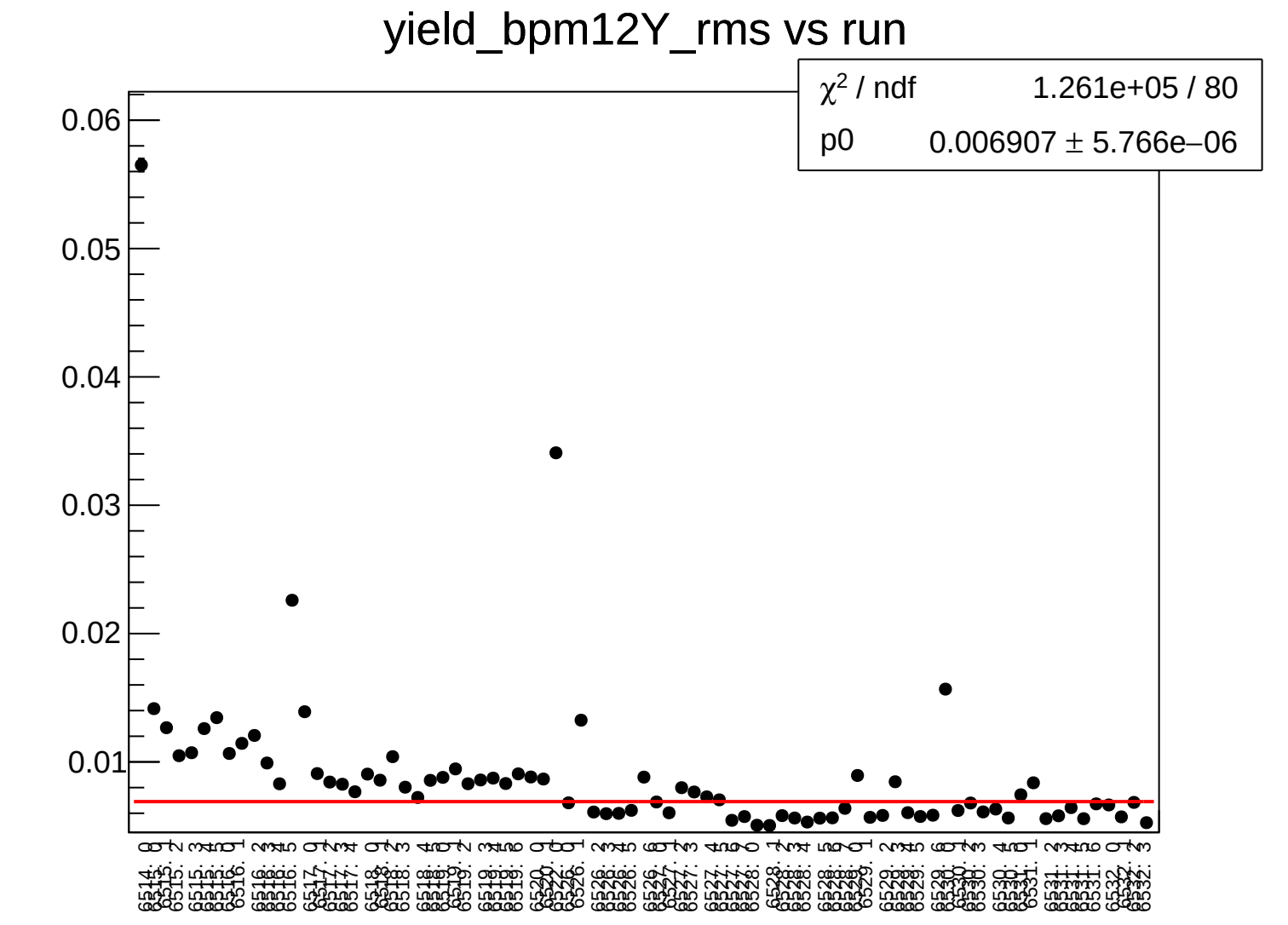

yield_bpm12X_mean vs run
χ^2 / ndf 2.701e+06 / 80
p0 0.6569 ± 4.995e−05
pull
Entries 81
Mean 36.92
Std Dev 0

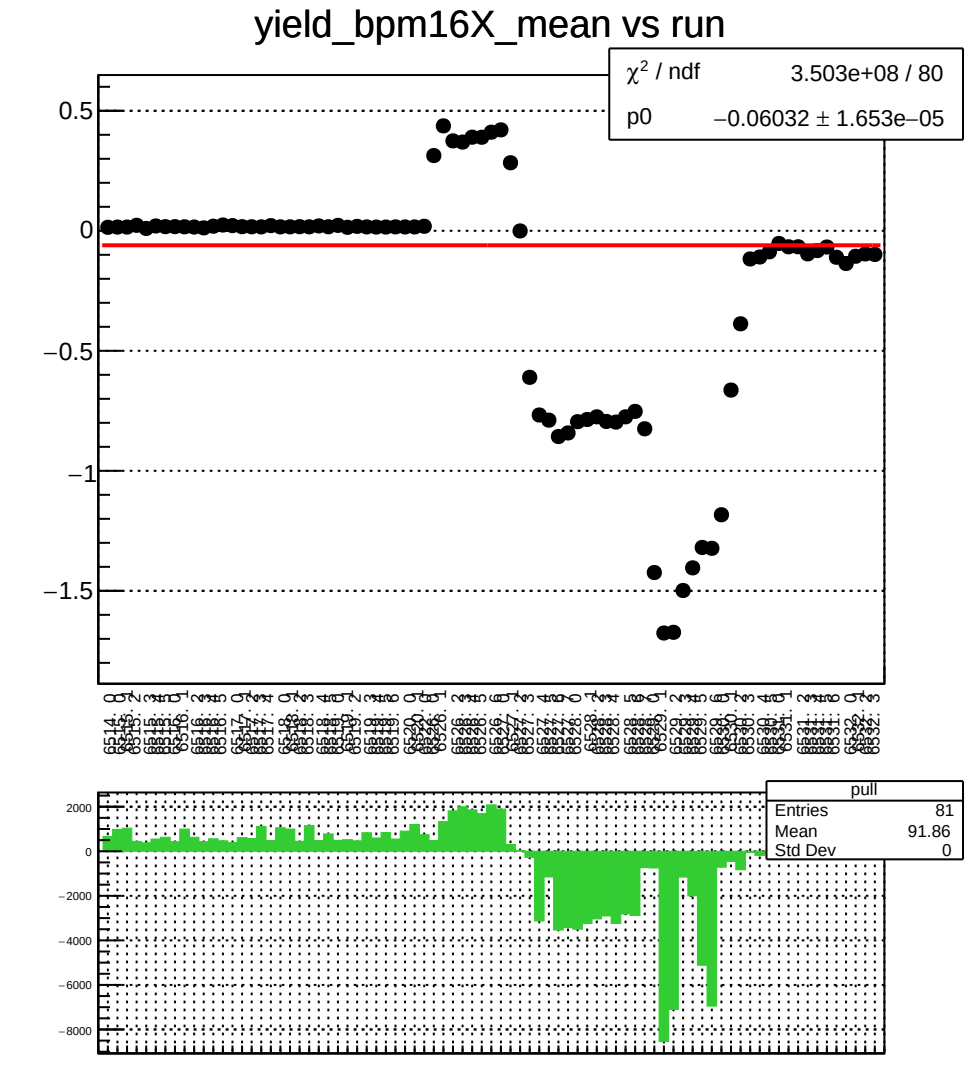

pull1D
Entries 81
Mean 0
Std Dev 0

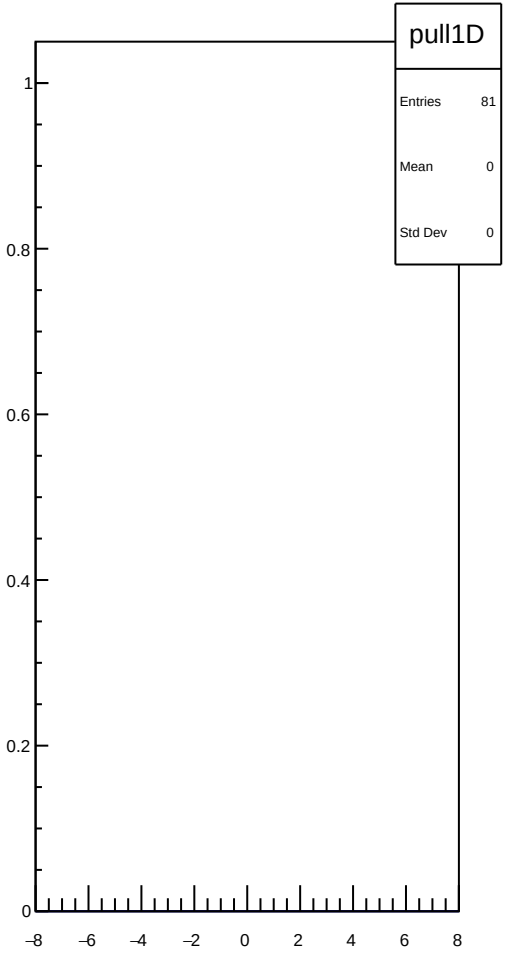

yield_bpm12X_rms vs run
χ² / ndf 2.767e+05 / 80
p0 0.04002 ± 3.532e–05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

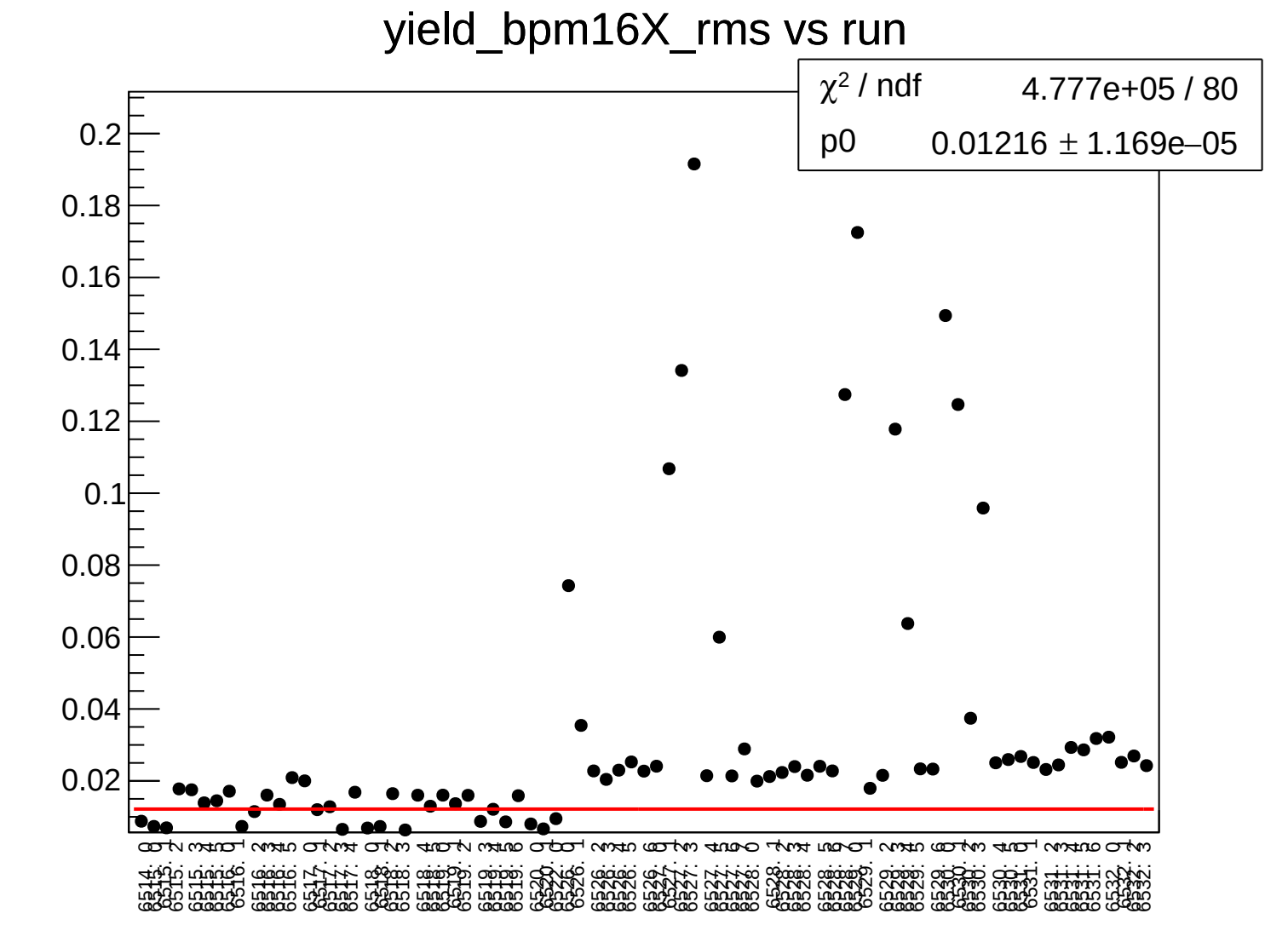

yield_bpm12Y_mean vs run
χ² / ndf 1.428e+07 / 80
p0 1.417 ± 8.155e−06
1.5
1.48
1.46
1.44
1.42
1.4
1.38
1.36
pull
Entries 81
Mean −59.67
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600
−800

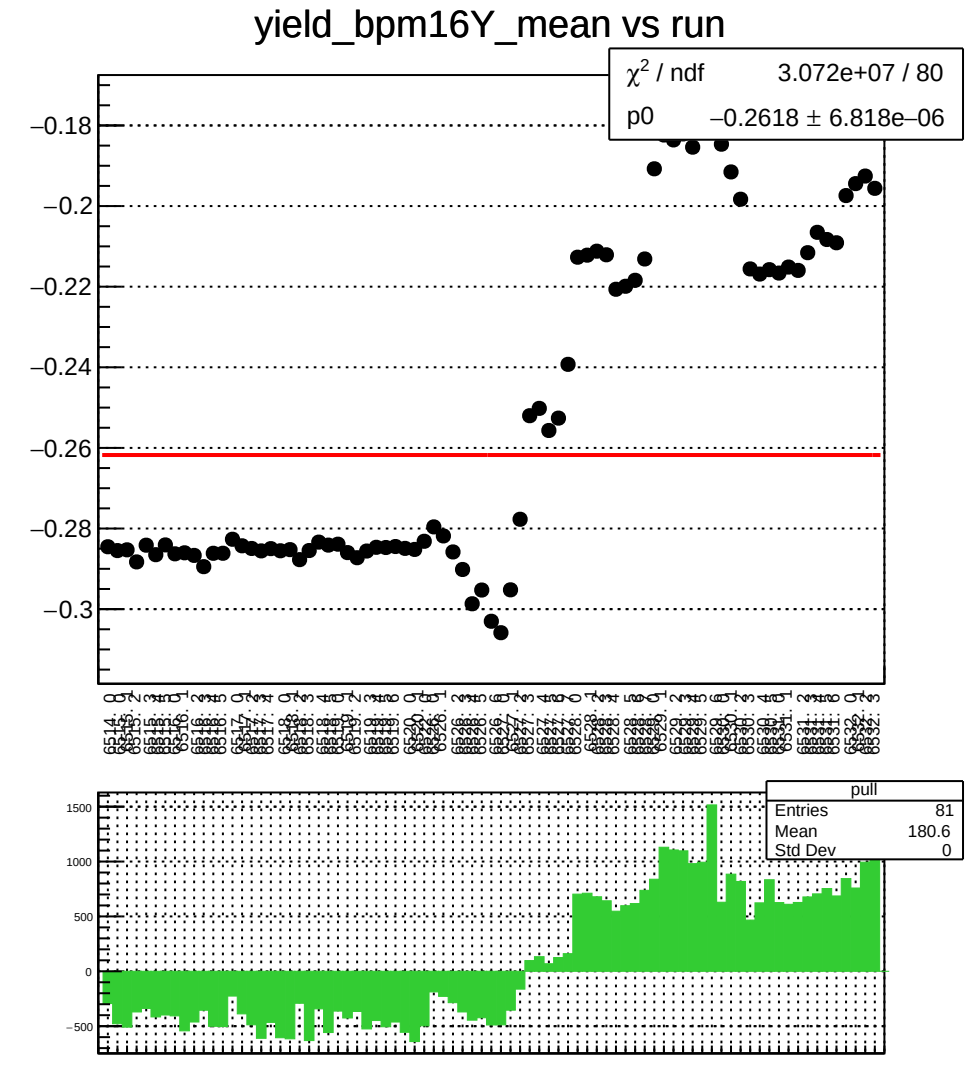

pull1D
Entries 81
Mean 0.6323
Std Dev 5.107
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

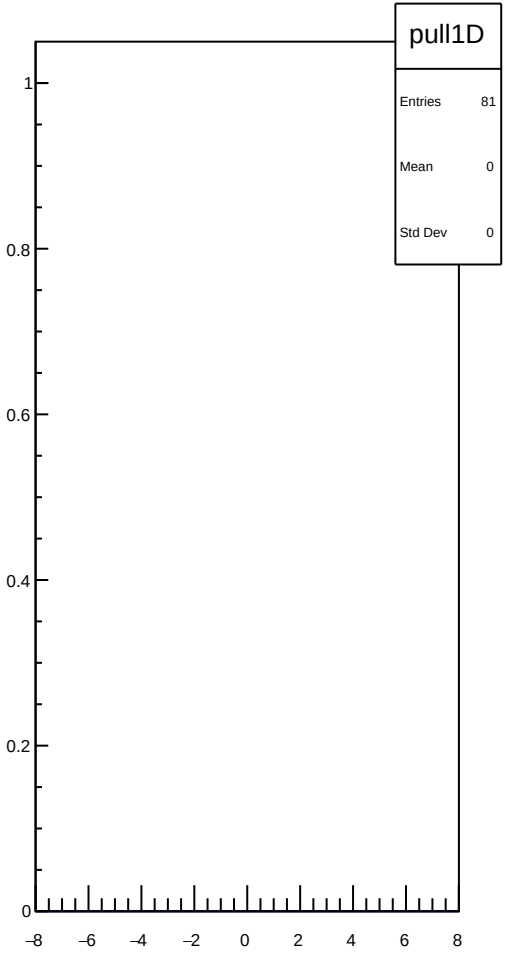

yield_bpm12Y_rms vs run
χ² / ndf 1.261e+05 / 80
p0 0.006907 ± 5.766e−06
0.06
0.05
0.04
0.03
0.02
0.01

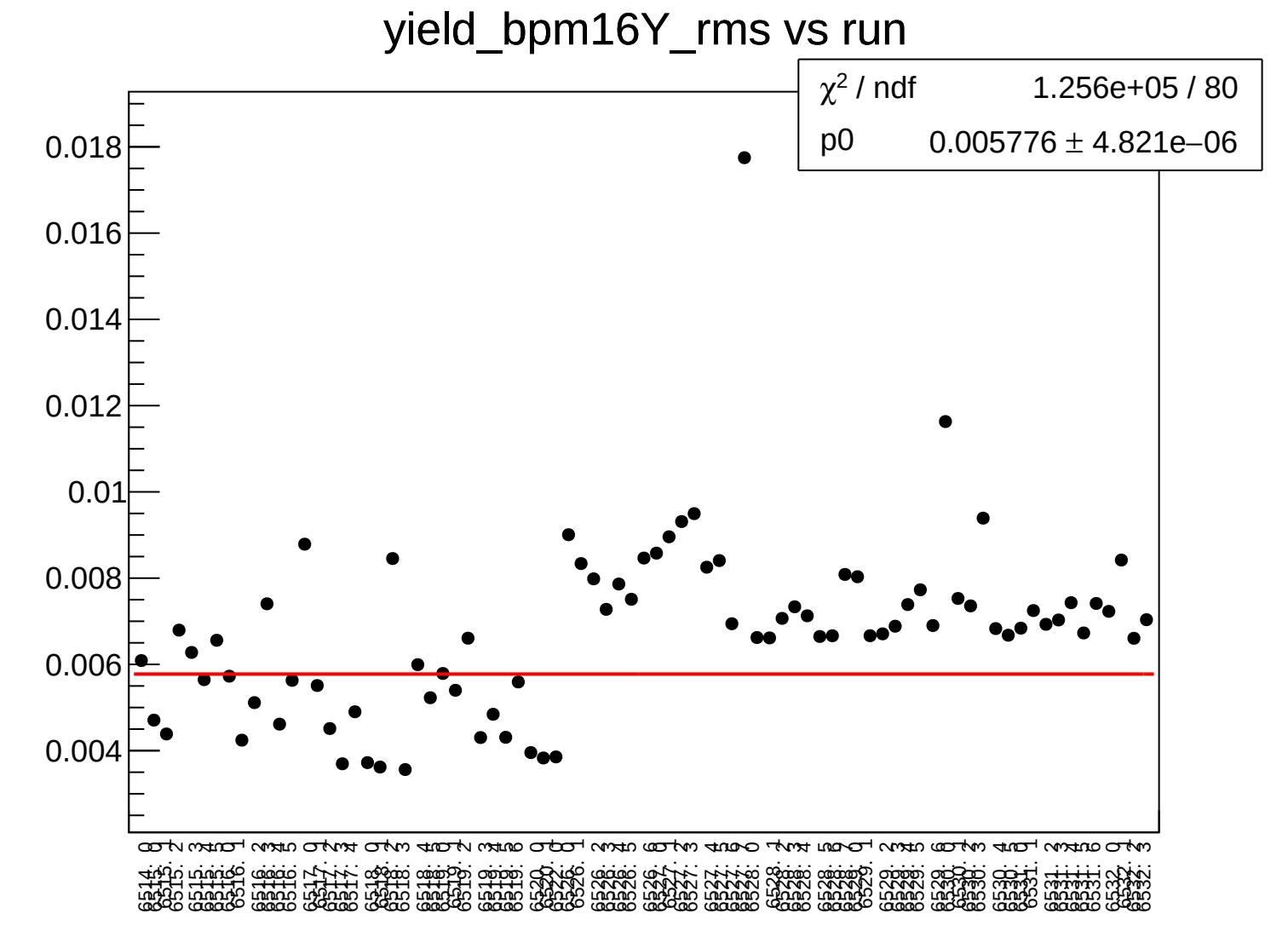

yield_bpm16X_mean vs run
χ² / ndf 3.503e+08 / 80
p0 −0.06032 ± 1.653e−05
0.5
0
−0.5
−1
−1.5
pull
Entries 81
Mean 91.86
Std Dev 0
2000
0
−2000
−4000
−6000
−8000

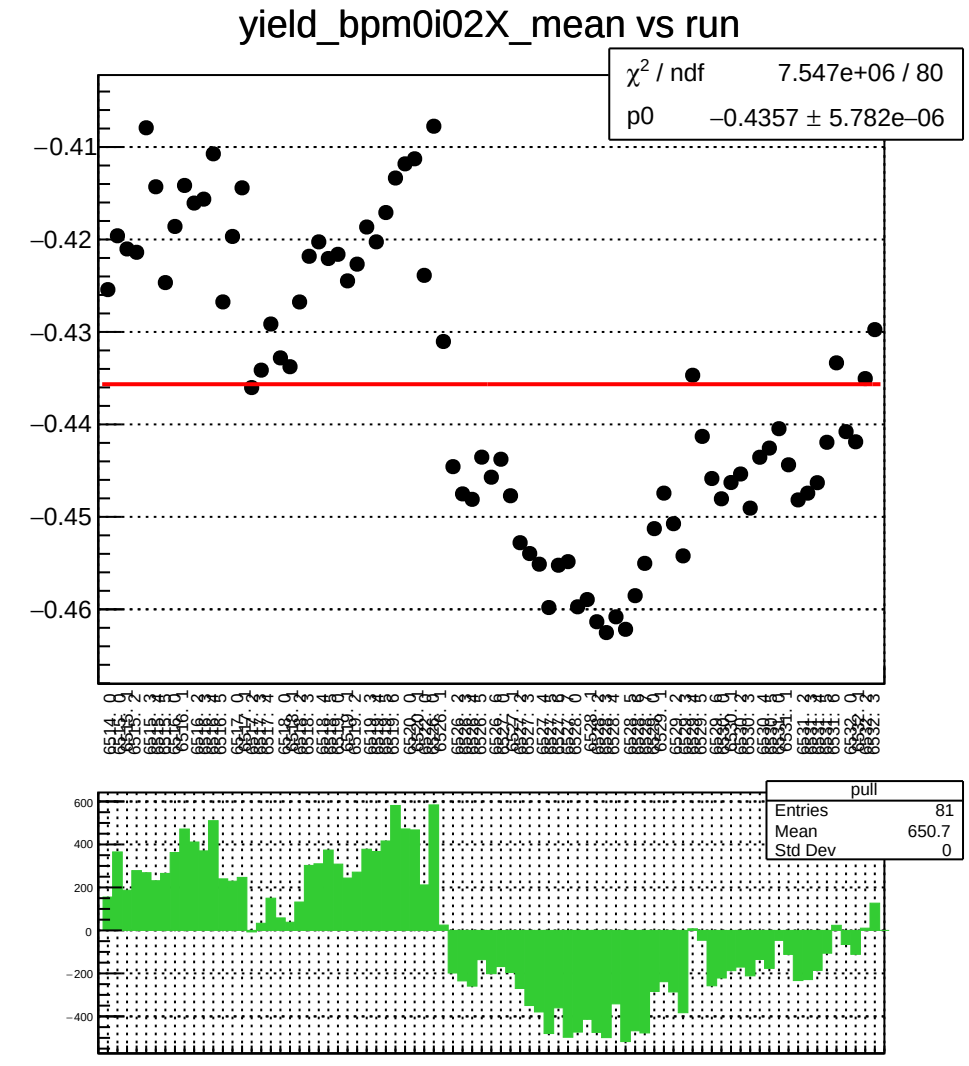

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

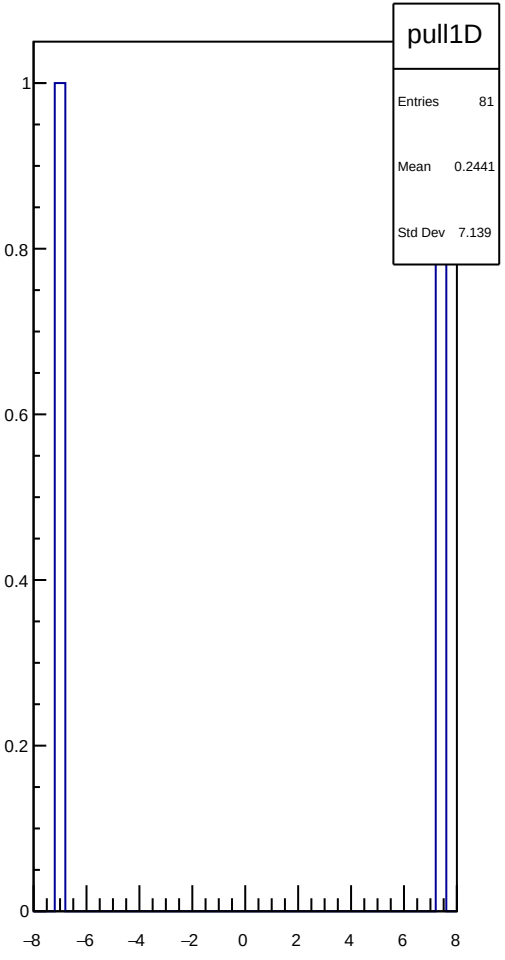

yield_bpm16X_rms vs run
χ² / ndf 4.777e+05 / 80
p0 0.01216 ± 1.169e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

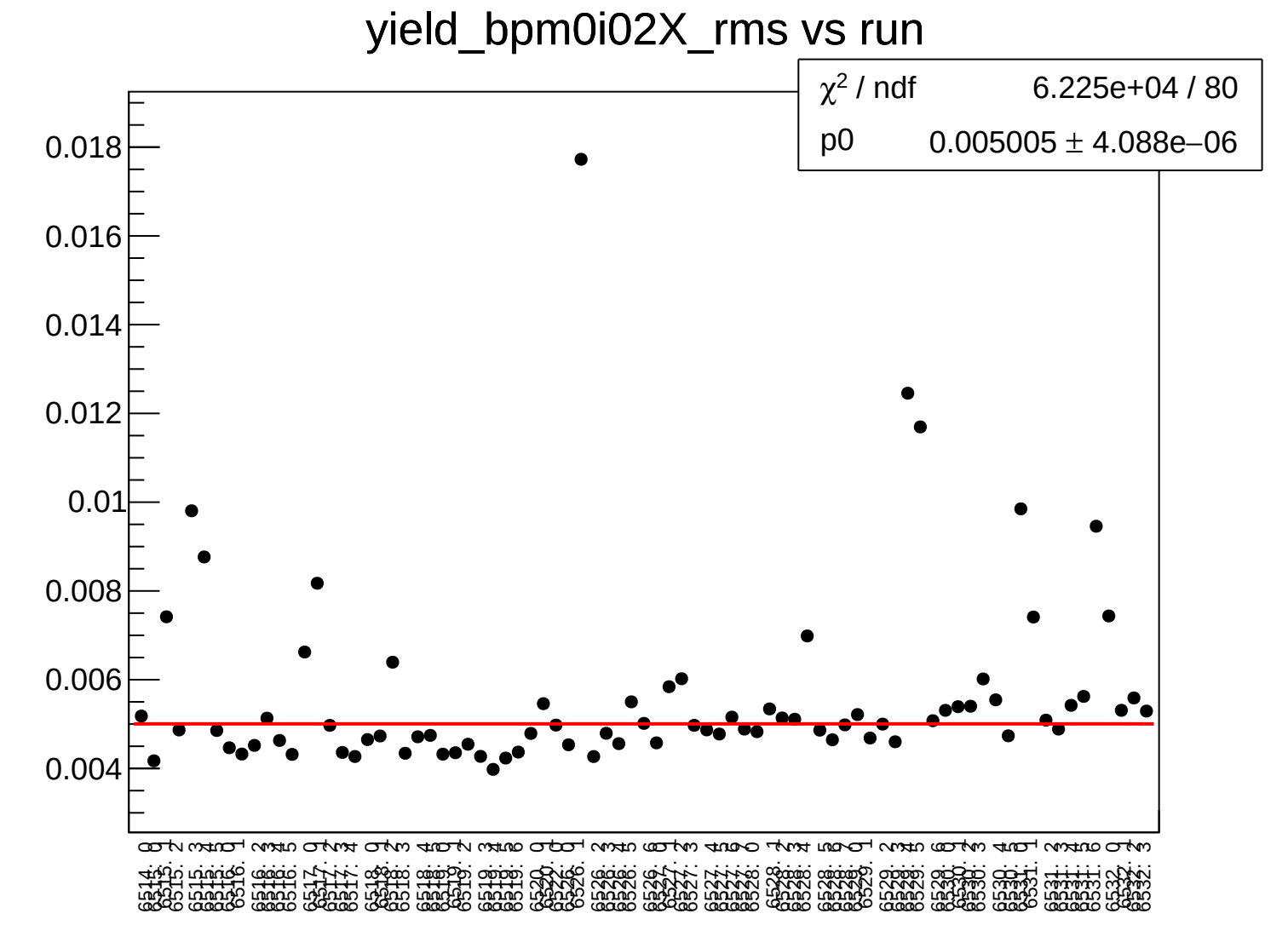

yield_bpm16Y_mean vs run
χ² / ndf 3.072e+07 / 80
p0 −0.2618 ± 6.818e−06
−0.18
−0.2
−0.22
−0.24
−0.26
−0.28
−0.3
pull
Entries 81
Mean 180.6
Std Dev 0
1500
1000
500
0
−500

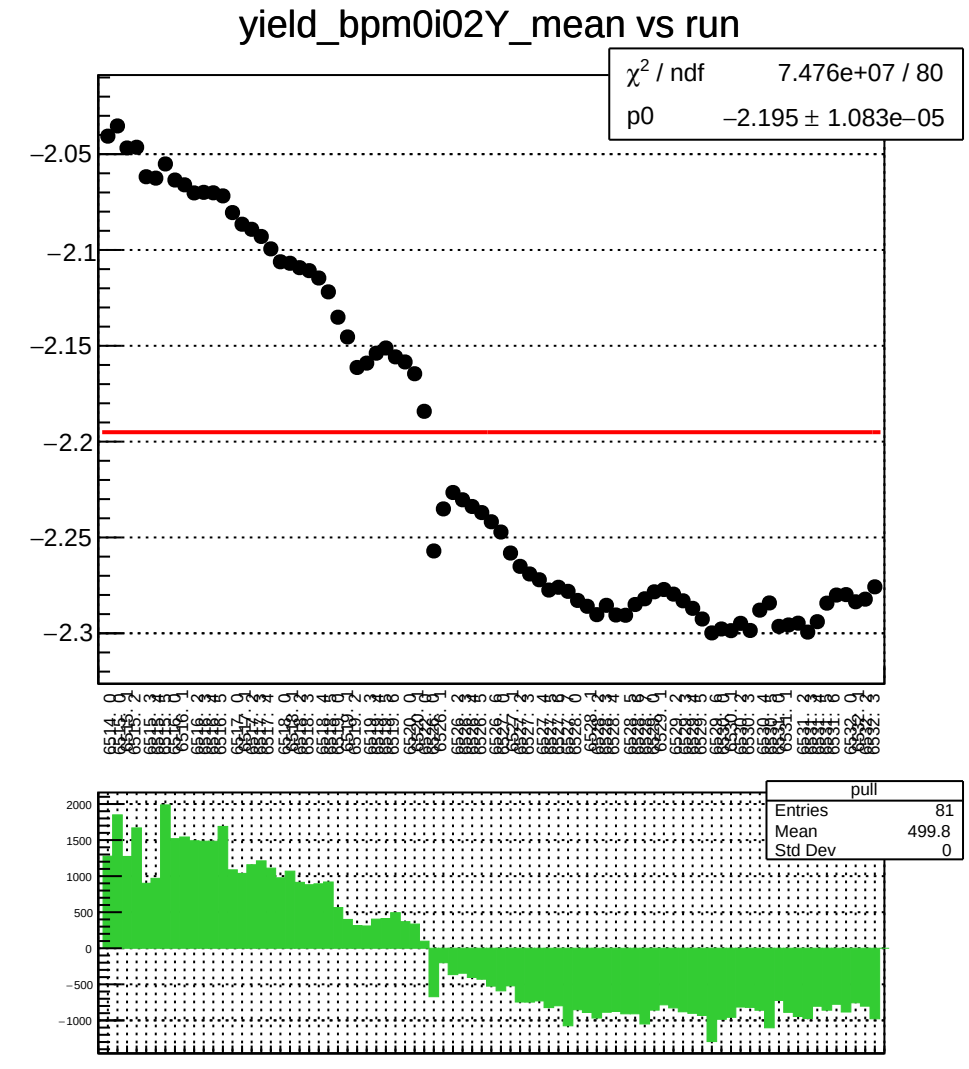

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

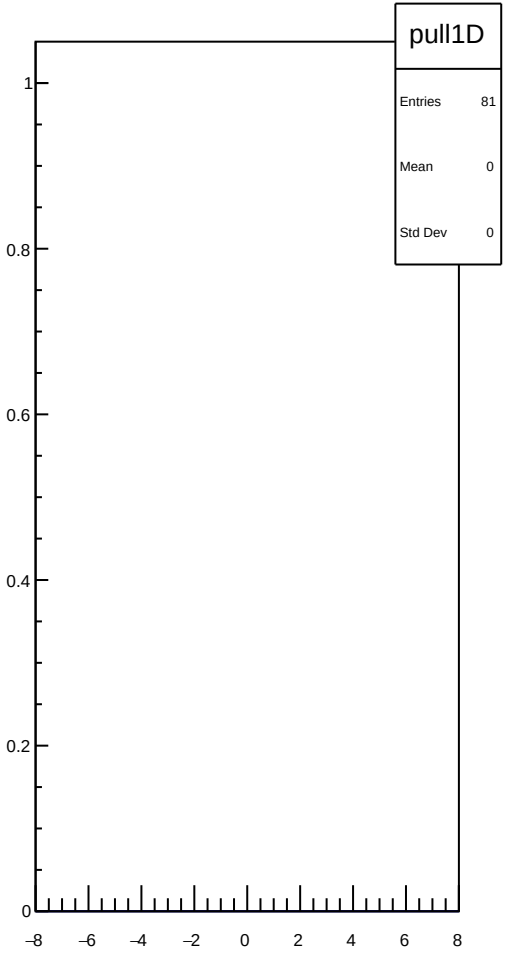

yield_bpm16Y_rms vs run
χ² / ndf 1.256e+05 / 80
p0 0.005776 ± 4.821e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

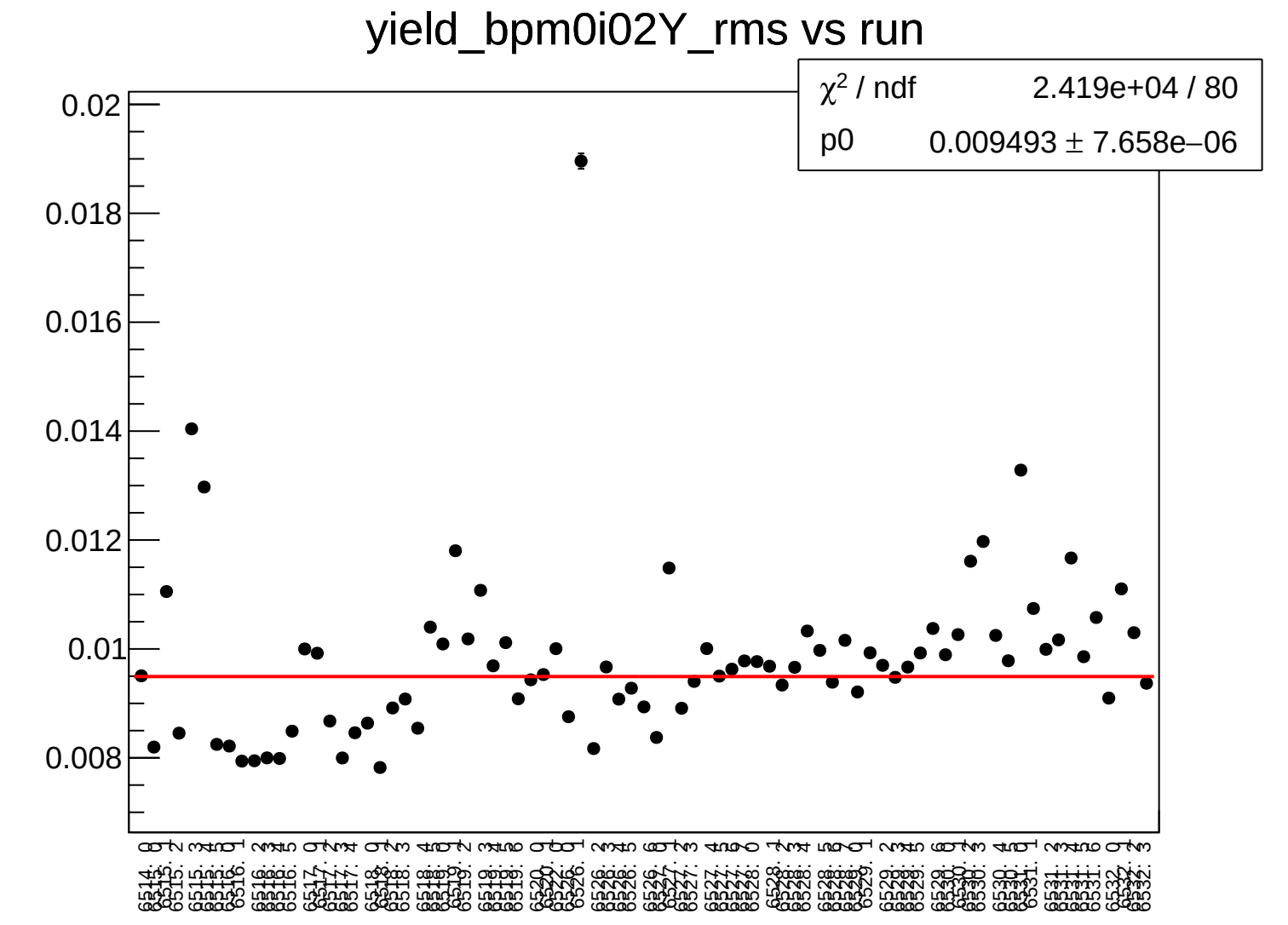

yield_bpm0i02X_mean vs run
χ² / ndf 7.547e+06 / 80
p0 −0.4357 ± 5.782e−06
−0.41
−0.42
−0.43
−0.44
−0.45
−0.46
pull
Entries 81
Mean 650.7
Std Dev 0
600
400
200
0
−200
−400

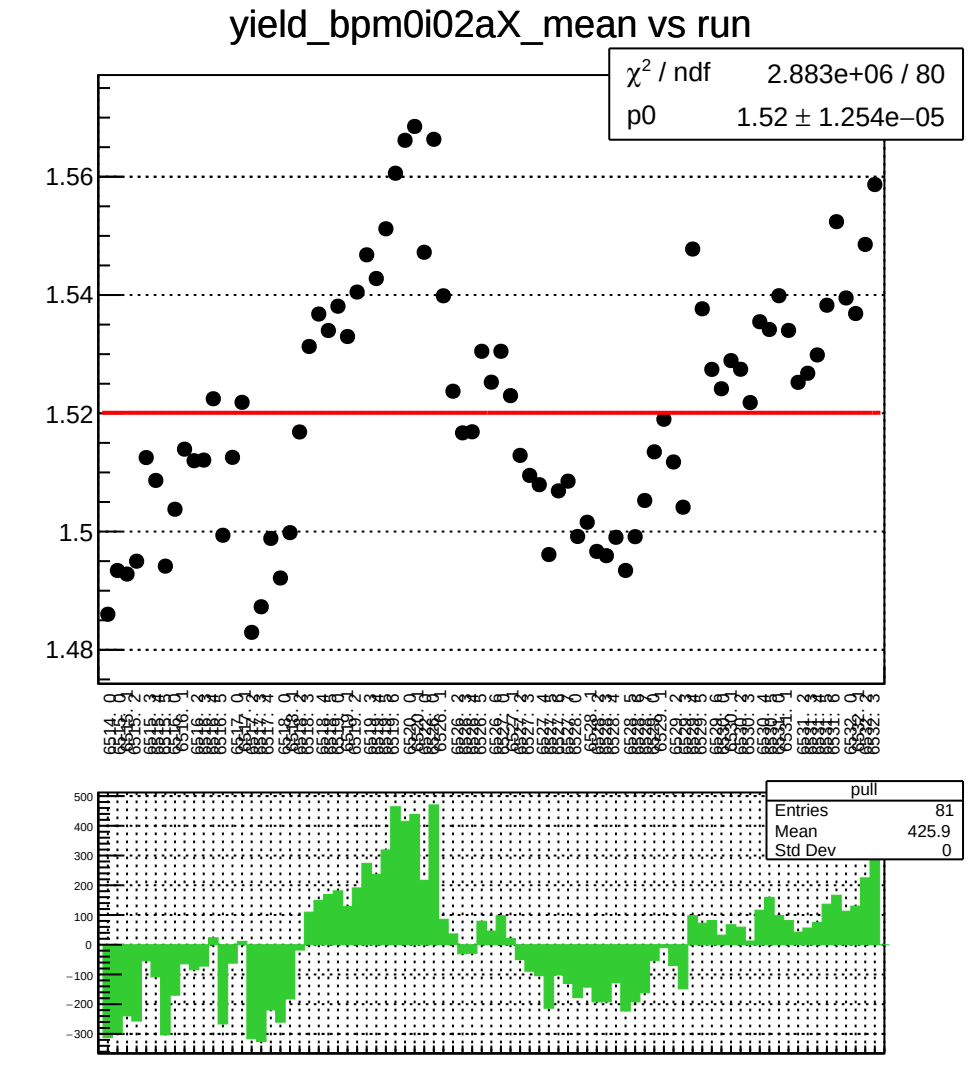

pull1D
Entries 81
Mean 0.2441
Std Dev 7.139
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

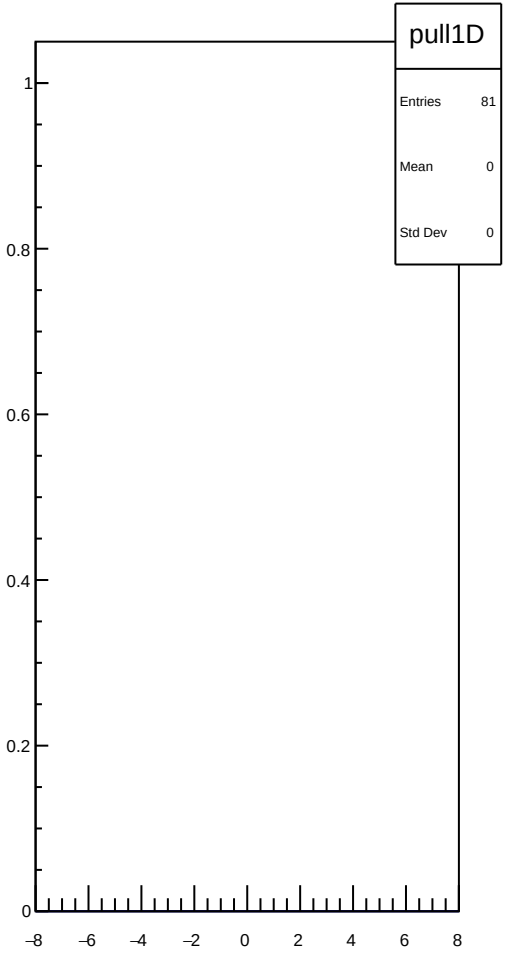

yield_bpm0i02X_rms vs run
χ^2 / ndf 6.225e+04 / 80
p0 0.005005 ± 4.088e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

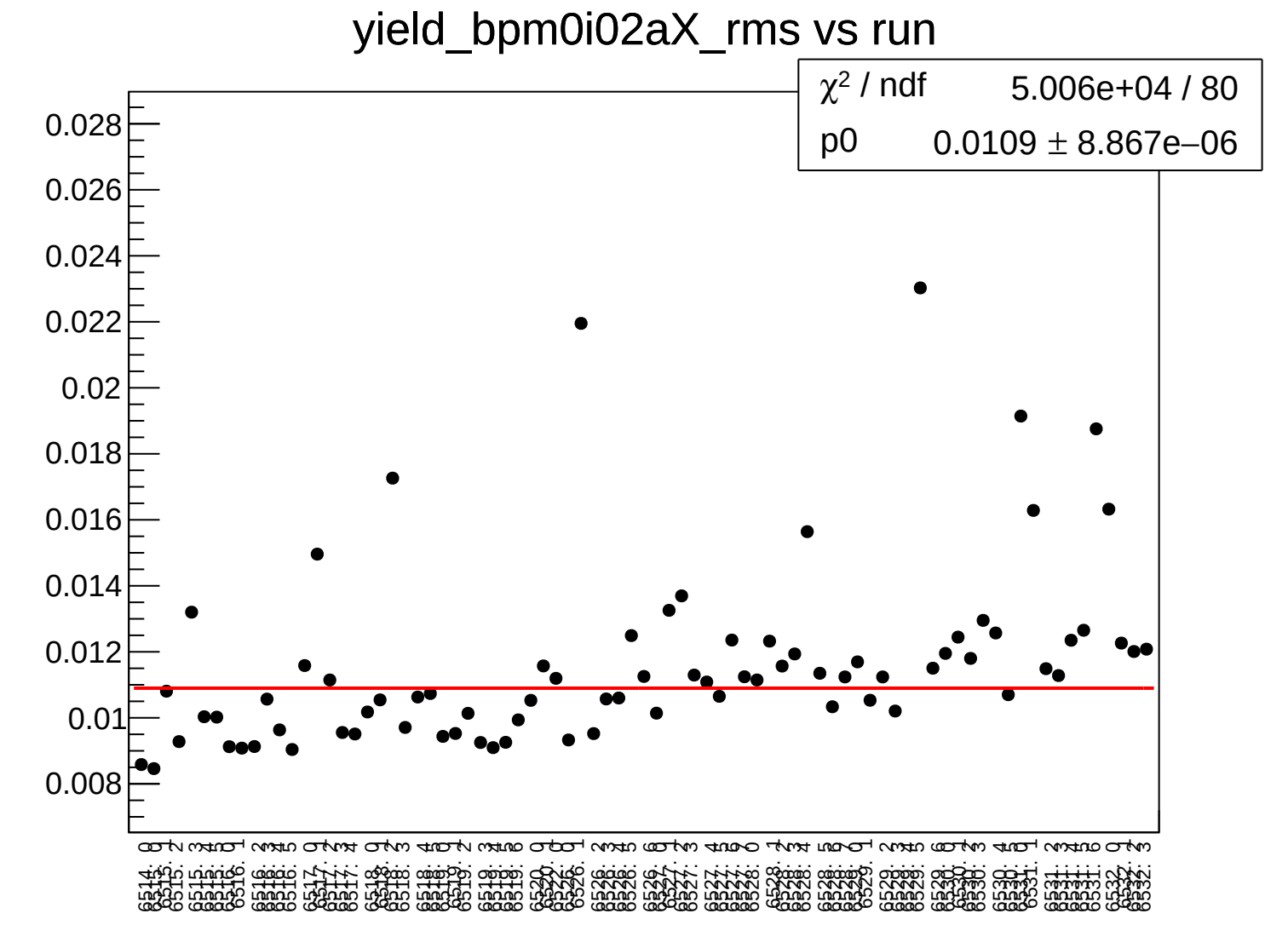

yield_bpm0i02Y_mean vs run
χ² / ndf 7.476e+07 / 80
p0 −2.195 ± 1.083e−05
−2.05
−2.1
−2.15
−2.2
−2.25
−2.3
pull
Entries 81
Mean 499.8
Std Dev 0
2000
1500
1000
500
0
−500
−1000

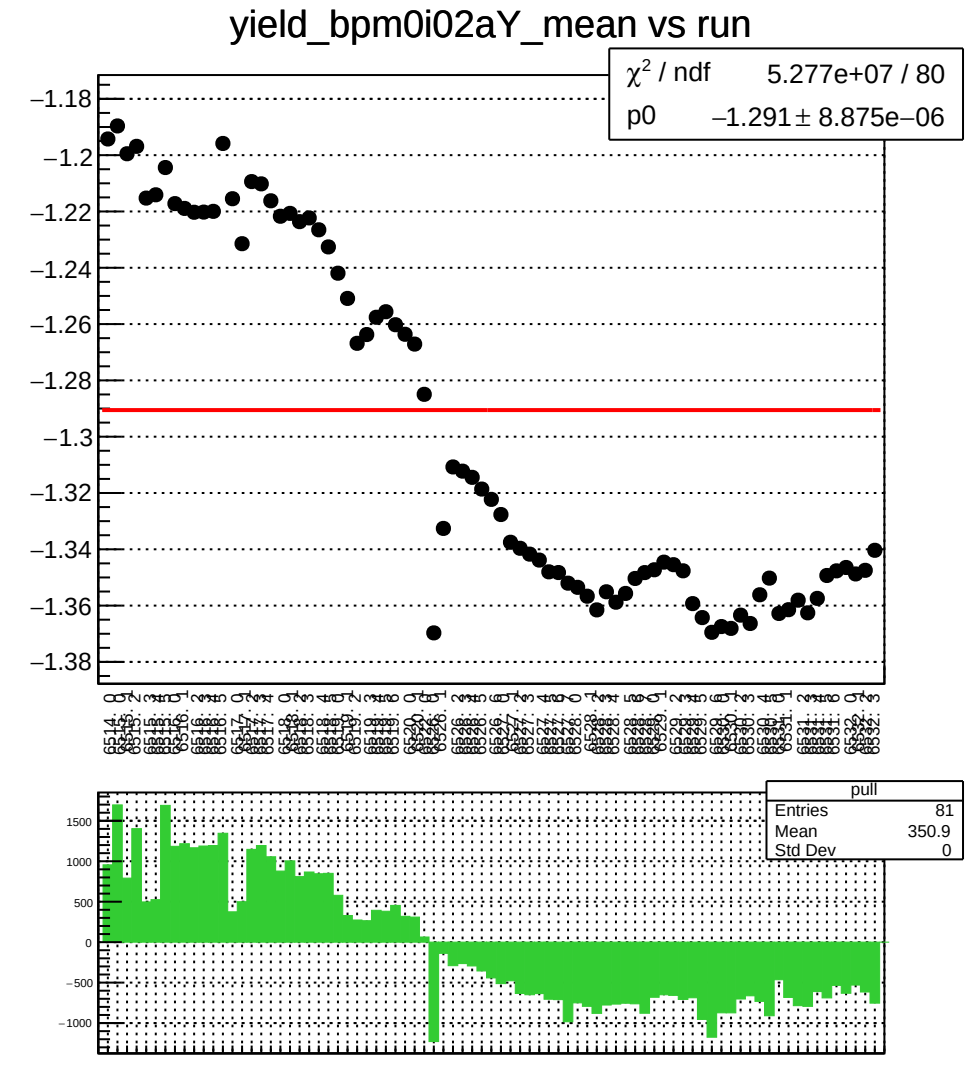

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

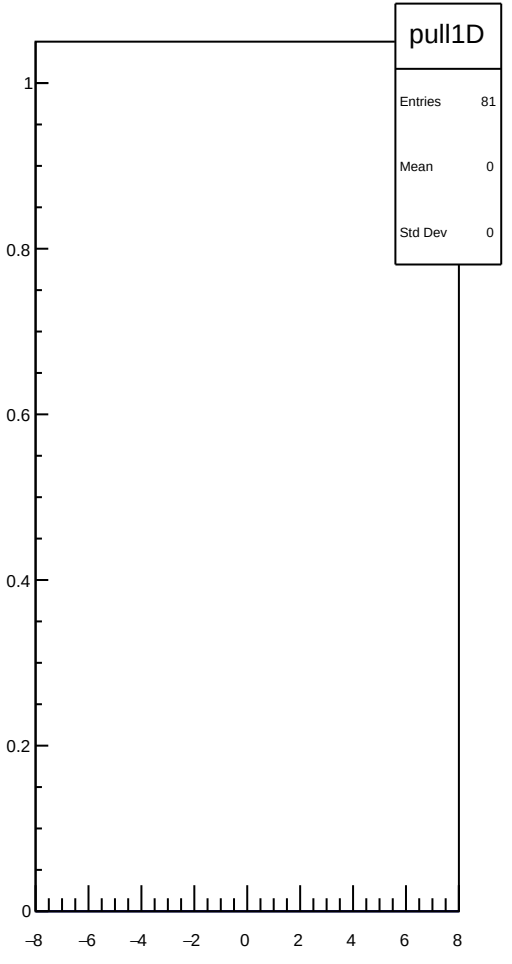

yield_bpm0i02Y_rms vs run
χ² / ndf 2.419e+04 / 80
p0 0.009493 ± 7.658e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008

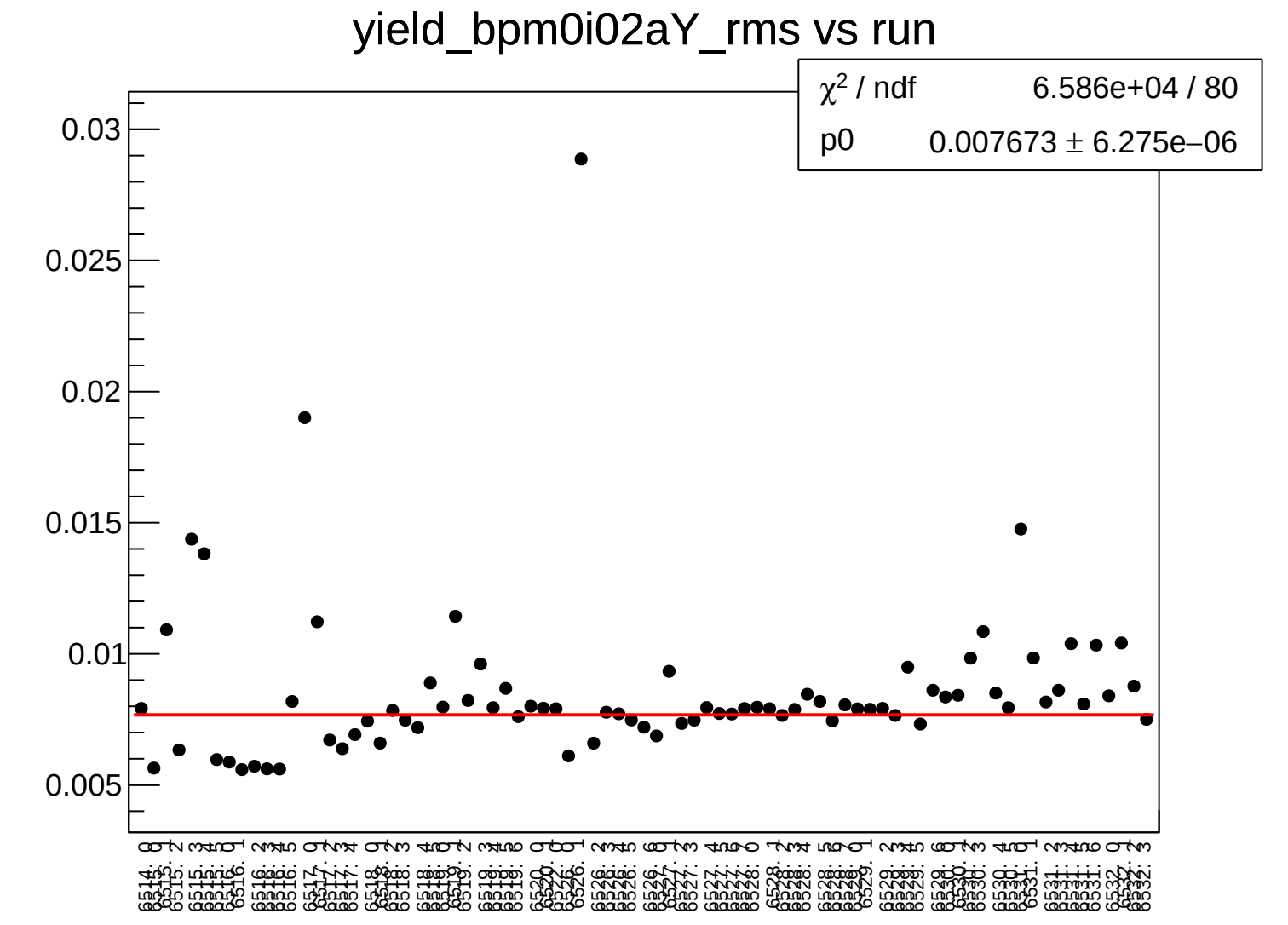

yield_bpm0i02aX_mean vs run
χ² / ndf 2.883e+06 / 80
p0 1.52 ± 1.254e−05
1.56
1.54
1.52
1.5
1.48
pull
Entries 81
Mean 425.9
Std Dev 0
500
400
300
200
100
0
−100
−200
−300

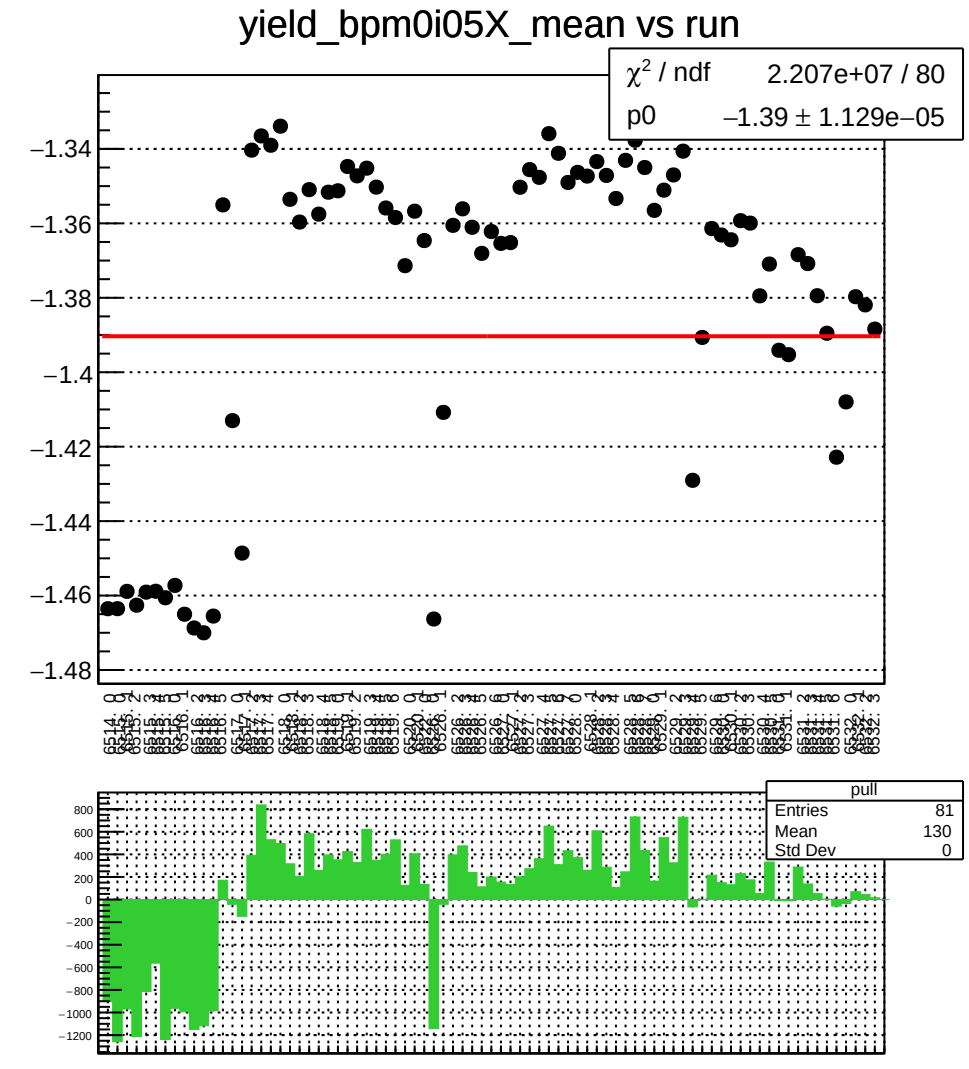

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

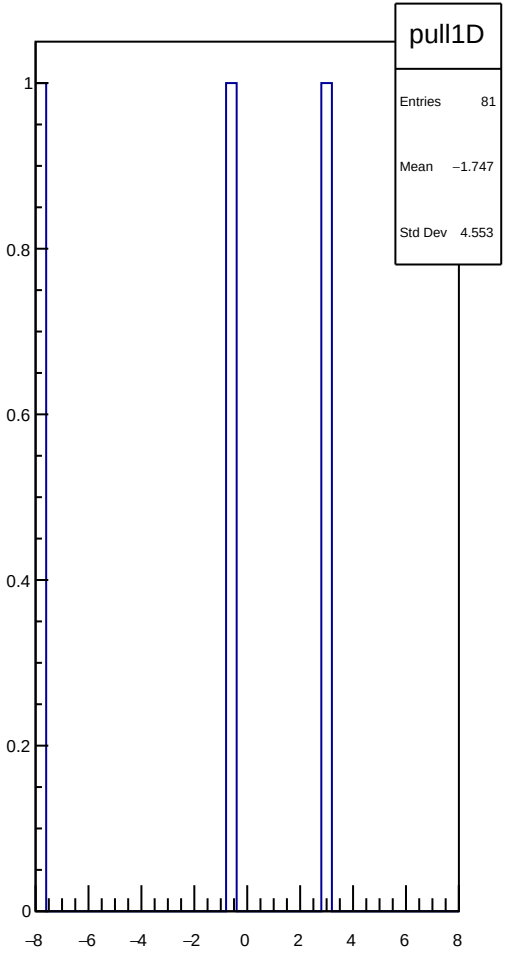

yield_bpm0i02aX_rms vs run
χ² / ndf 5.006e+04 / 80
p0 0.0109 ± 8.867e−06
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

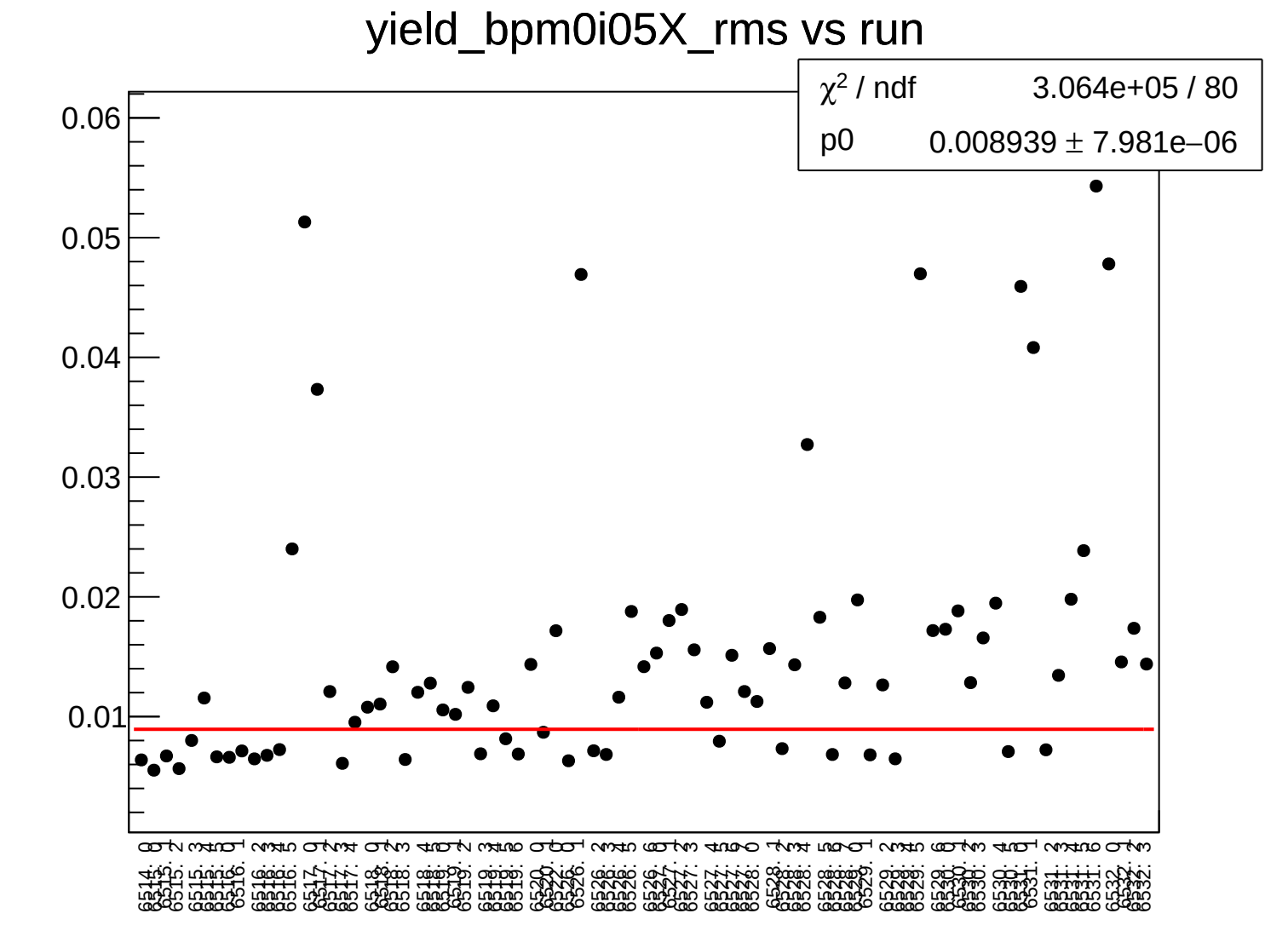

yield_bpm0i02aY_mean vs run
χ² / ndf 5.277e+07 / 80
p0 −1.291 ± 8.875e−06
−1.18
−1.2
−1.22
−1.24
−1.26
−1.28
−1.3
−1.32
−1.34
−1.36
−1.38
pull
Entries 81
Mean 350.9
Std Dev 0
1500
1000
500
0
−500
−1000

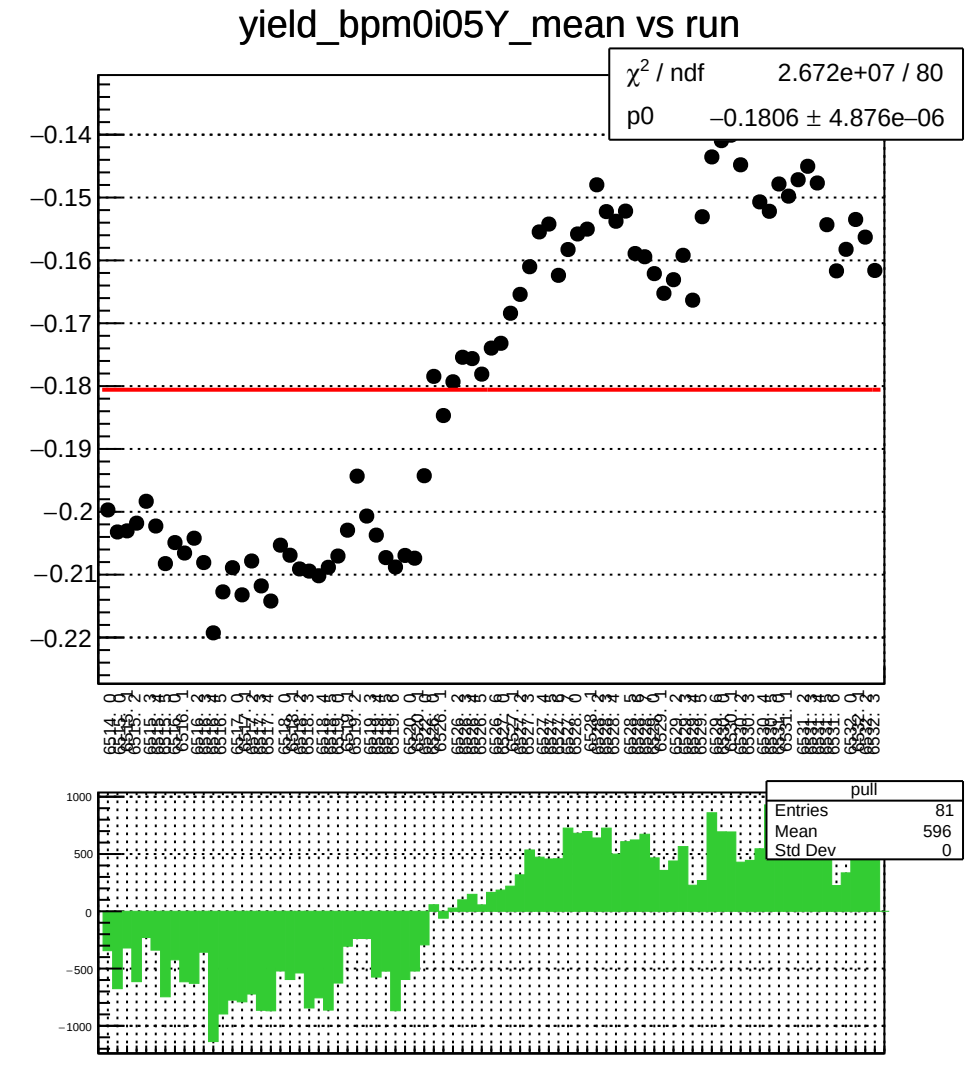

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

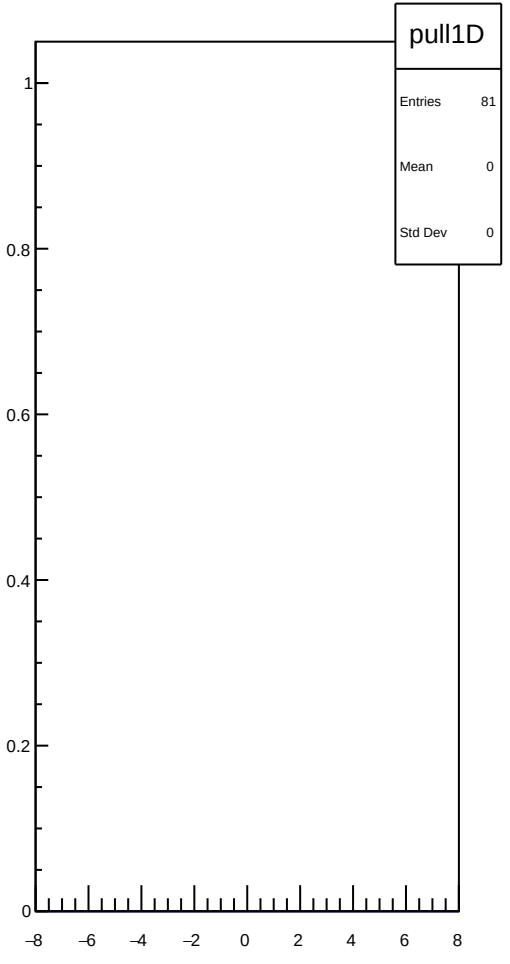

yield_bpm0i02aY_rms vs run
χ² / ndf 6.586e+04 / 80
p0 0.007673 ± 6.275e−06
0.03
0.025
0.02
0.015
0.01
0.005

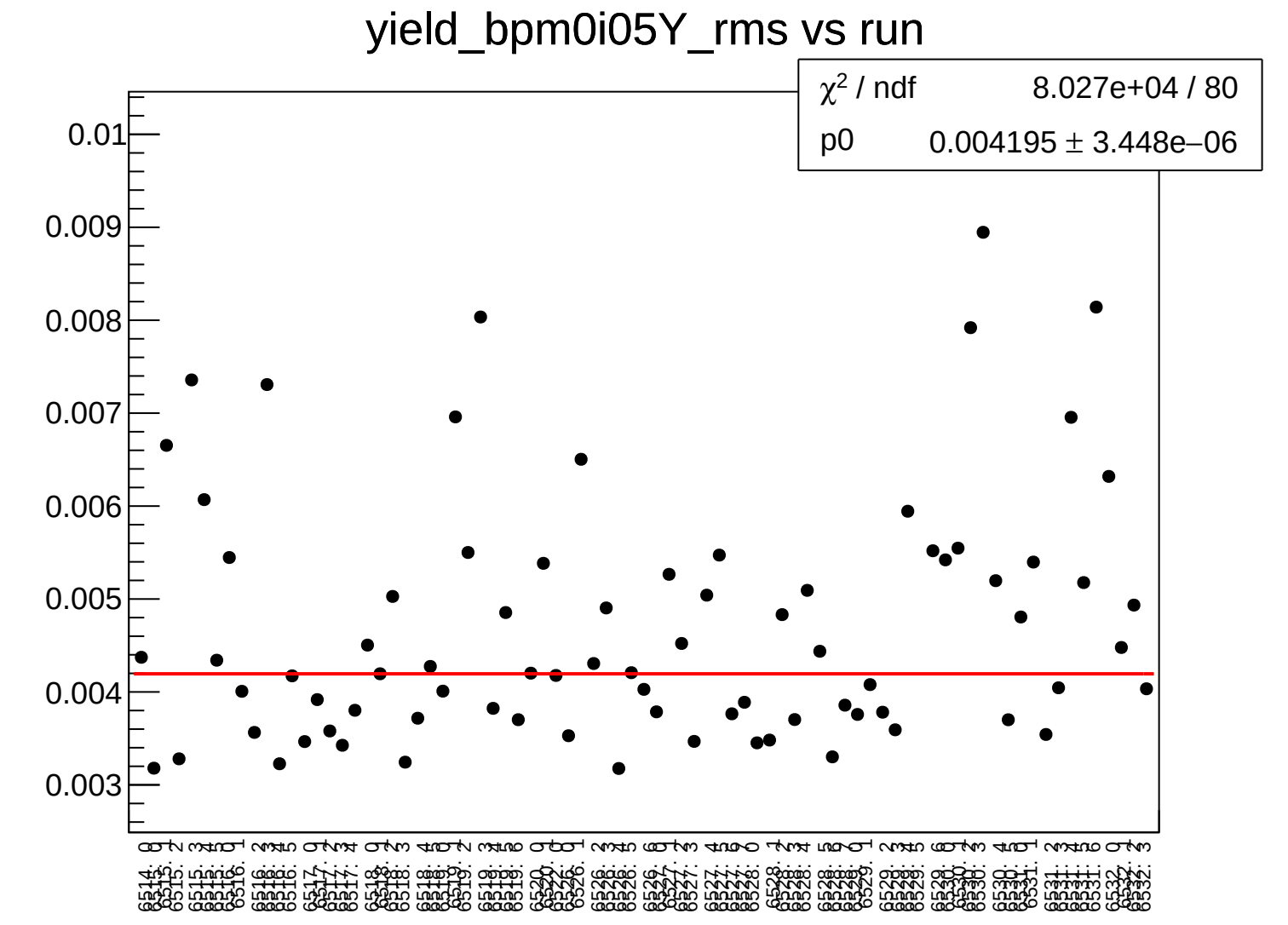

yield_bpm0i05X_mean vs run
χ² / ndf 2.207e+07 / 80
p0 −1.39 ± 1.129e−05
−1.34
−1.36
−1.38
−1.4
−1.42
−1.44
−1.46
−1.48
pull
Entries 81
Mean 130
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200

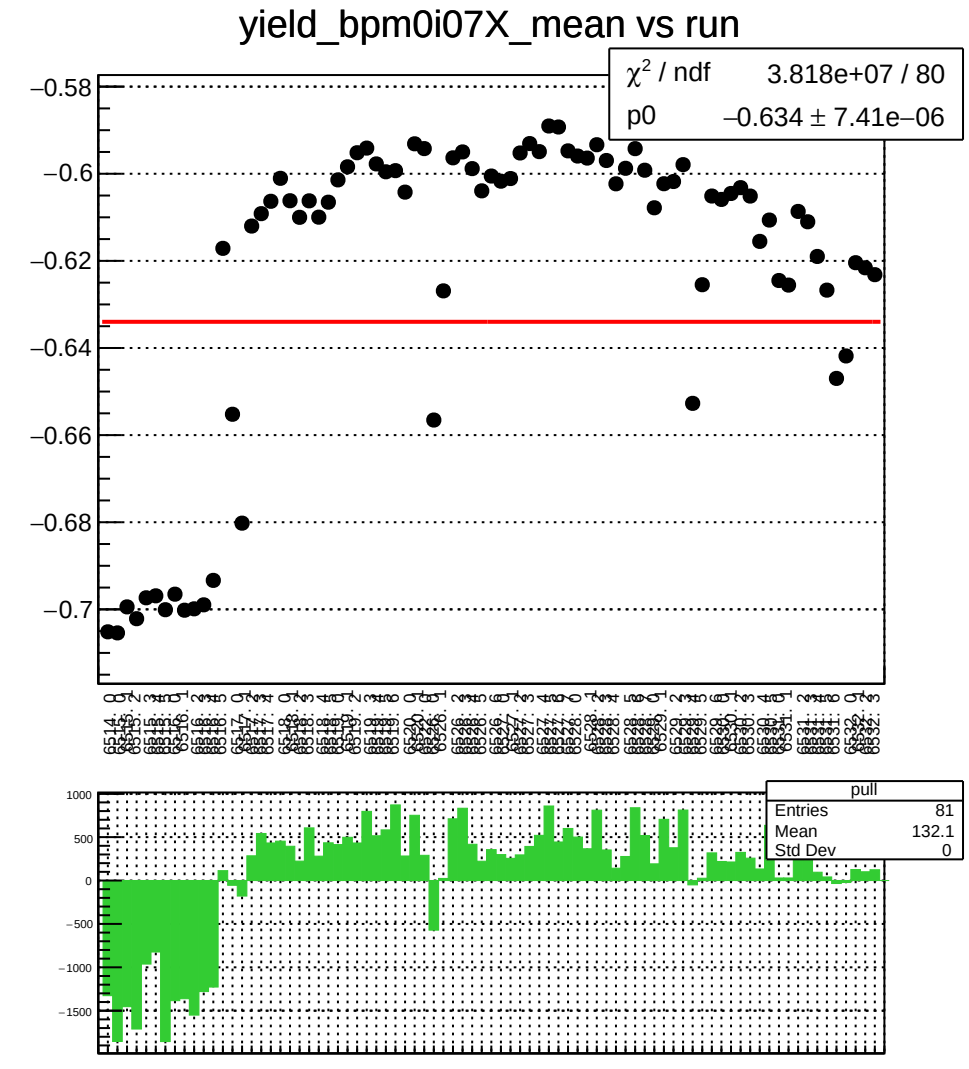

pull1D
Entries 81
Mean −1.747
Std Dev 4.553
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

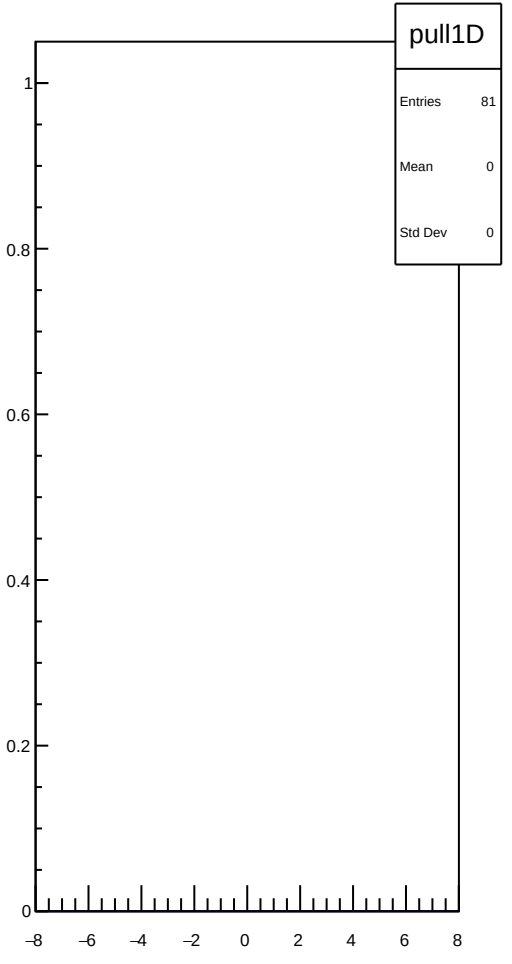

yield_bpm0i05X_rms vs run
χ² / ndf 3.064e+05 / 80
p0 0.008939 ± 7.981e−06
0.06
0.05
0.04
0.03
0.02
0.01

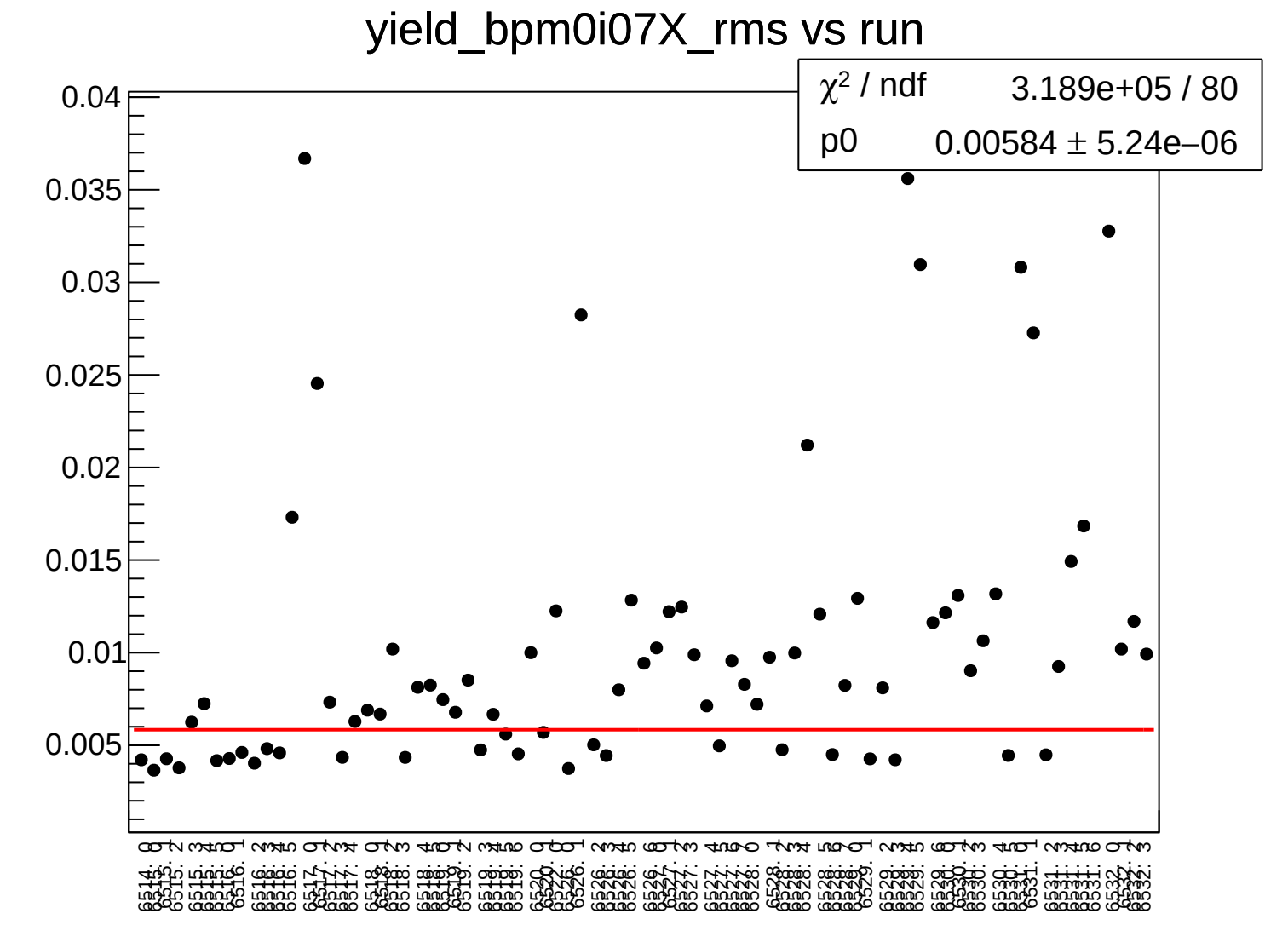

yield_bpm0i05Y_mean vs run
χ² / ndf 2.672e+07 / 80
p0 −0.1806 ± 4.876e−06
−0.14
−0.15
−0.16
−0.17
−0.18
−0.19
−0.2
−0.21
−0.22
pull
Entries 81
Mean 596
Std Dev 0
1000
500
0
−500
−1000

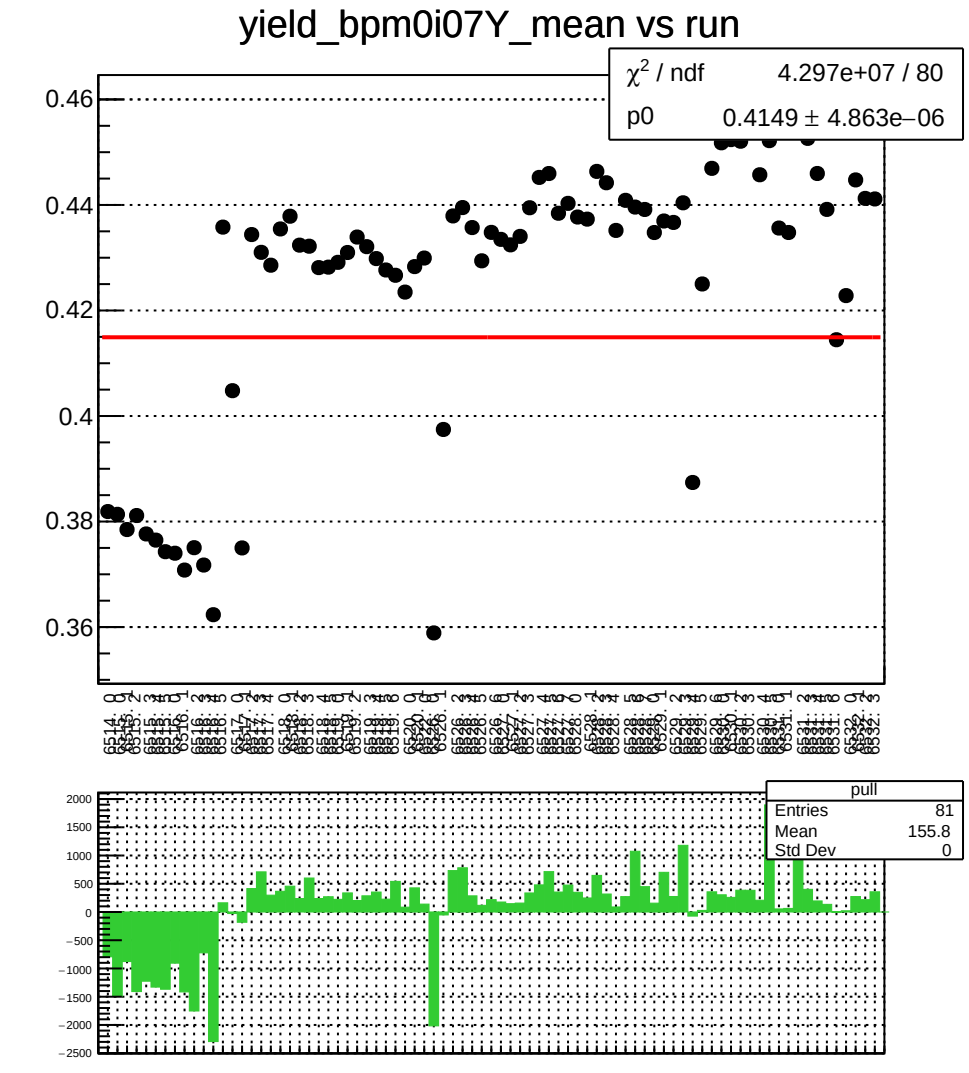

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

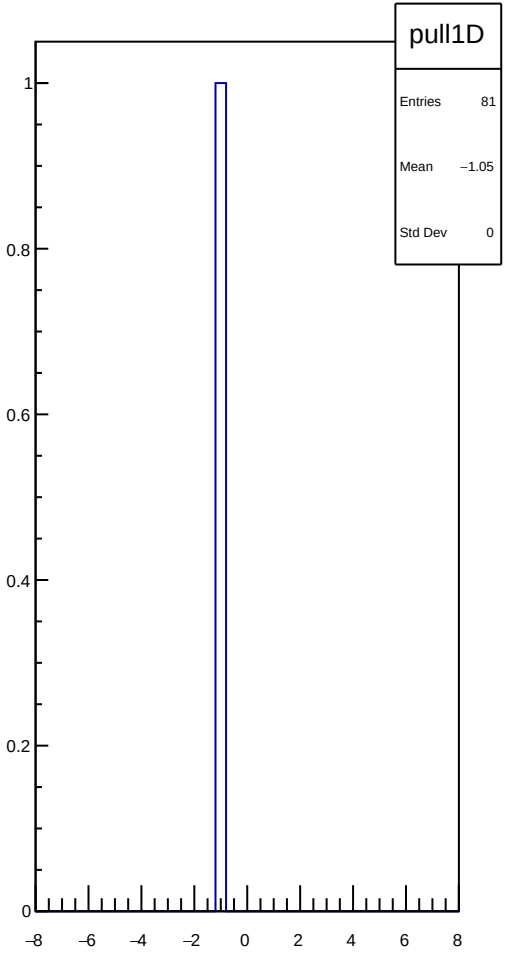

yield_bpm0i05Y_rms vs run
χ² / ndf 8.027e+04 / 80
p0 0.004195 ± 3.448e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003


yield_bpm0i07X_mean vs run
χ² / ndf 3.818e+07 / 80
p0 −0.634 ± 7.41e−06
−0.58
−0.6
−0.62
−0.64
−0.66
−0.68
−0.7
pull
Entries 81
Mean 132.1
Std Dev 0
1000
500
0
−500
−1000
−1500

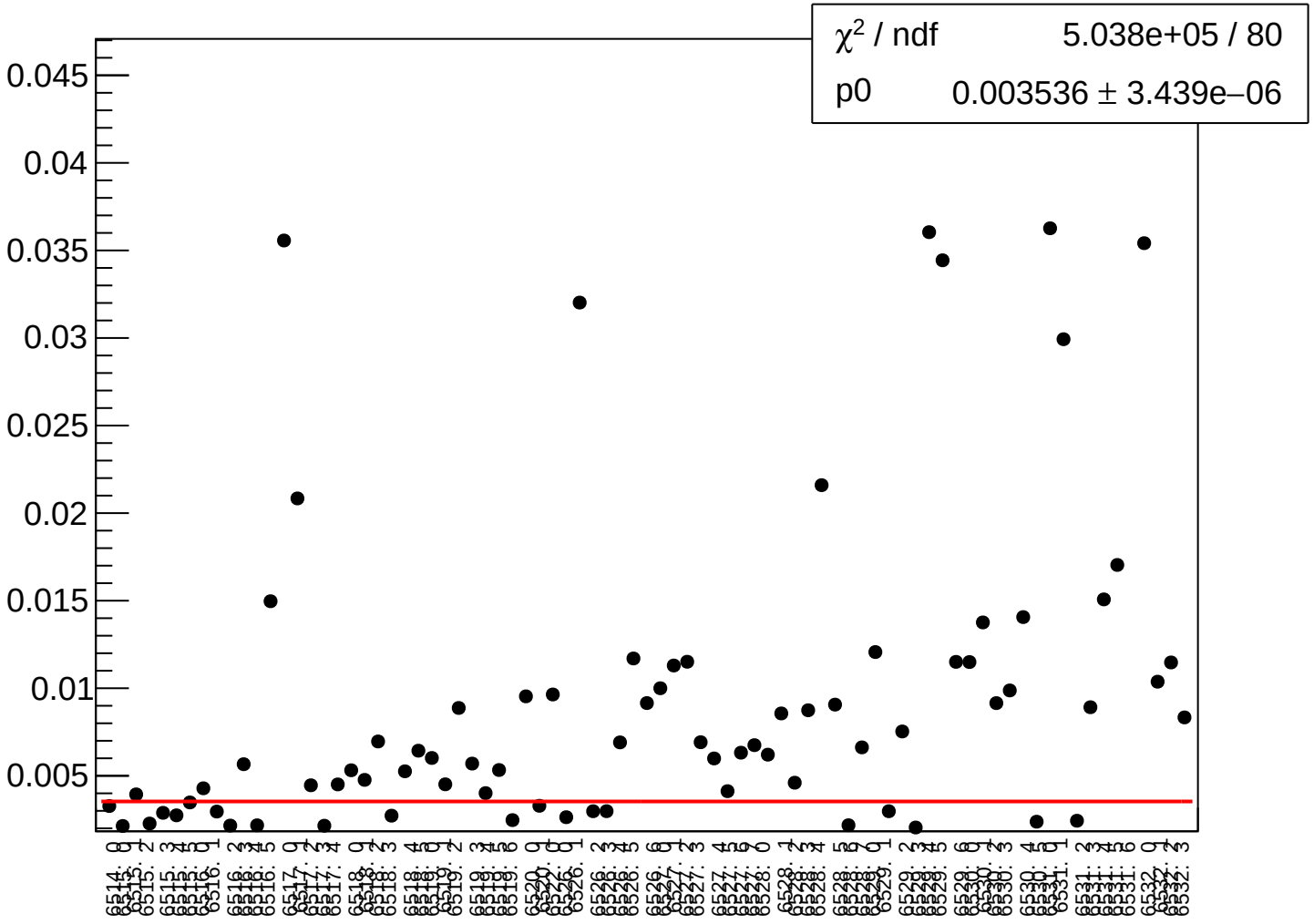

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

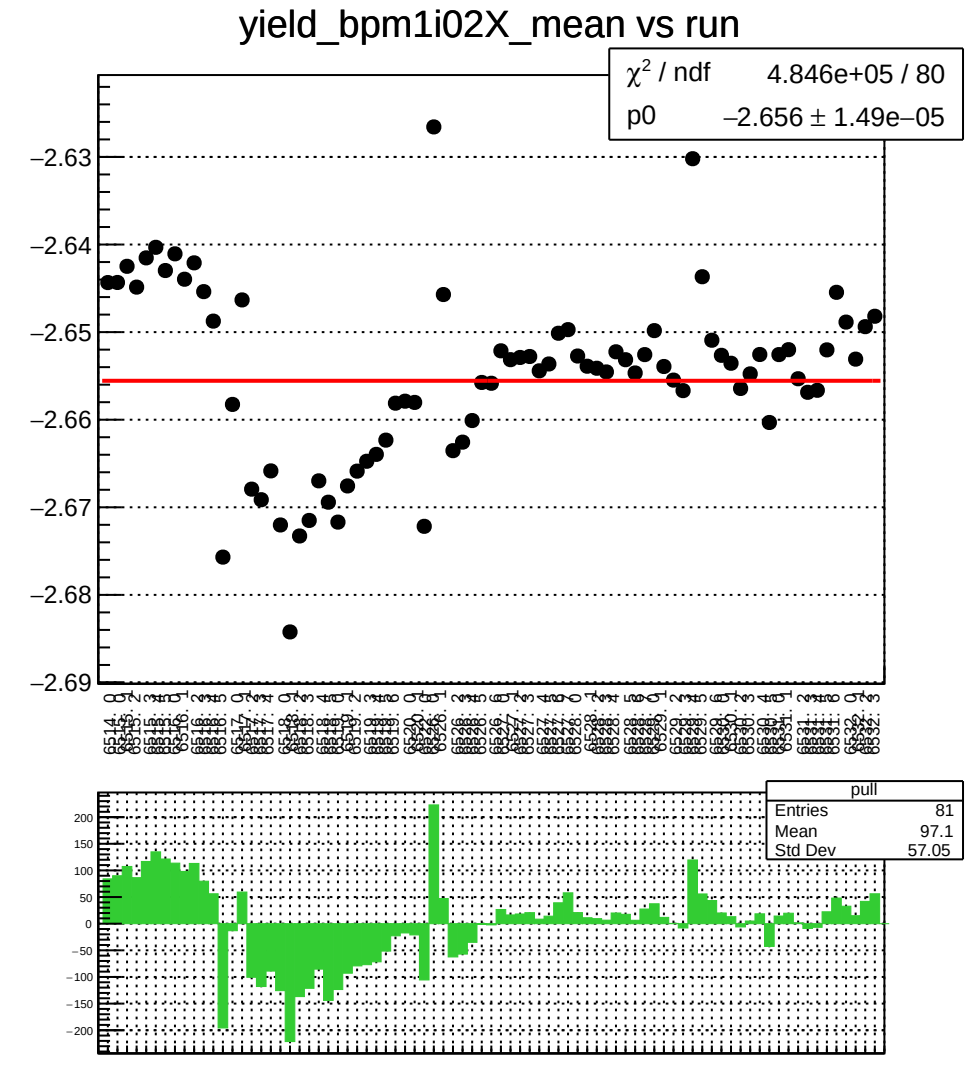

yield_bpm0i07X_rms vs run
χ² / ndf 3.189e+05 / 80
p0 0.00584 ± 5.24e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

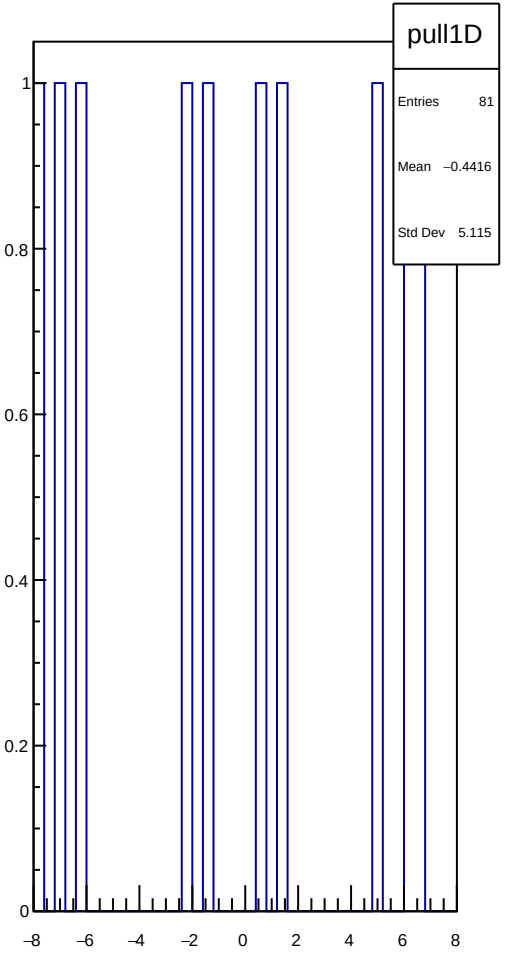

yield_bpm0i07Y_mean vs run
χ² / ndf 4.297e+07 / 80
p0 0.4149 ± 4.863e−06
0.46
0.44
0.42
0.4
0.38
0.36
pull
Entries 81
Mean 155.8
Std Dev 0
2000
1500
1000
500
0
−500
−1000
−1500
−2000
−2500

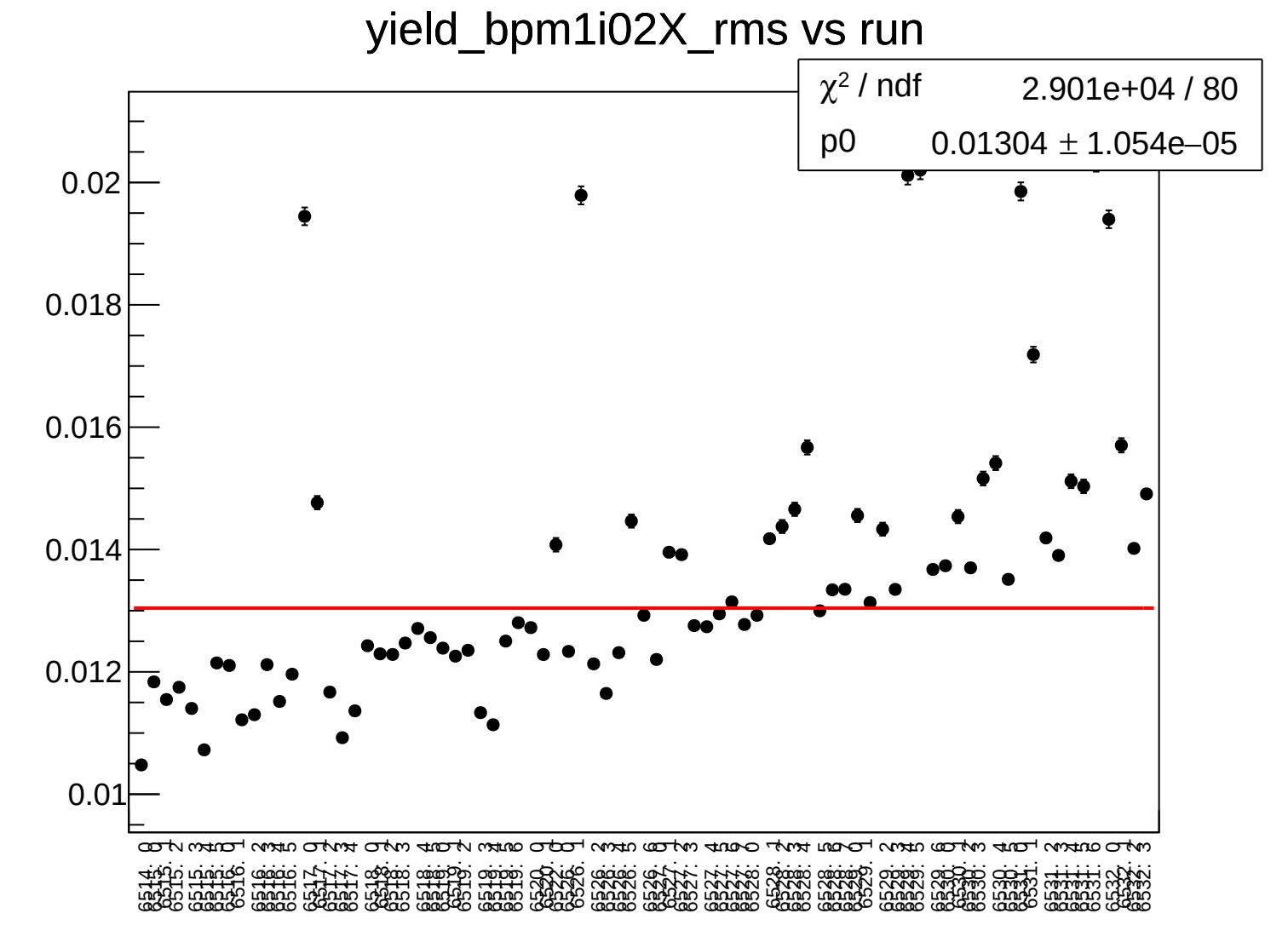

pull1D
Entries 81
Mean −1.05
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

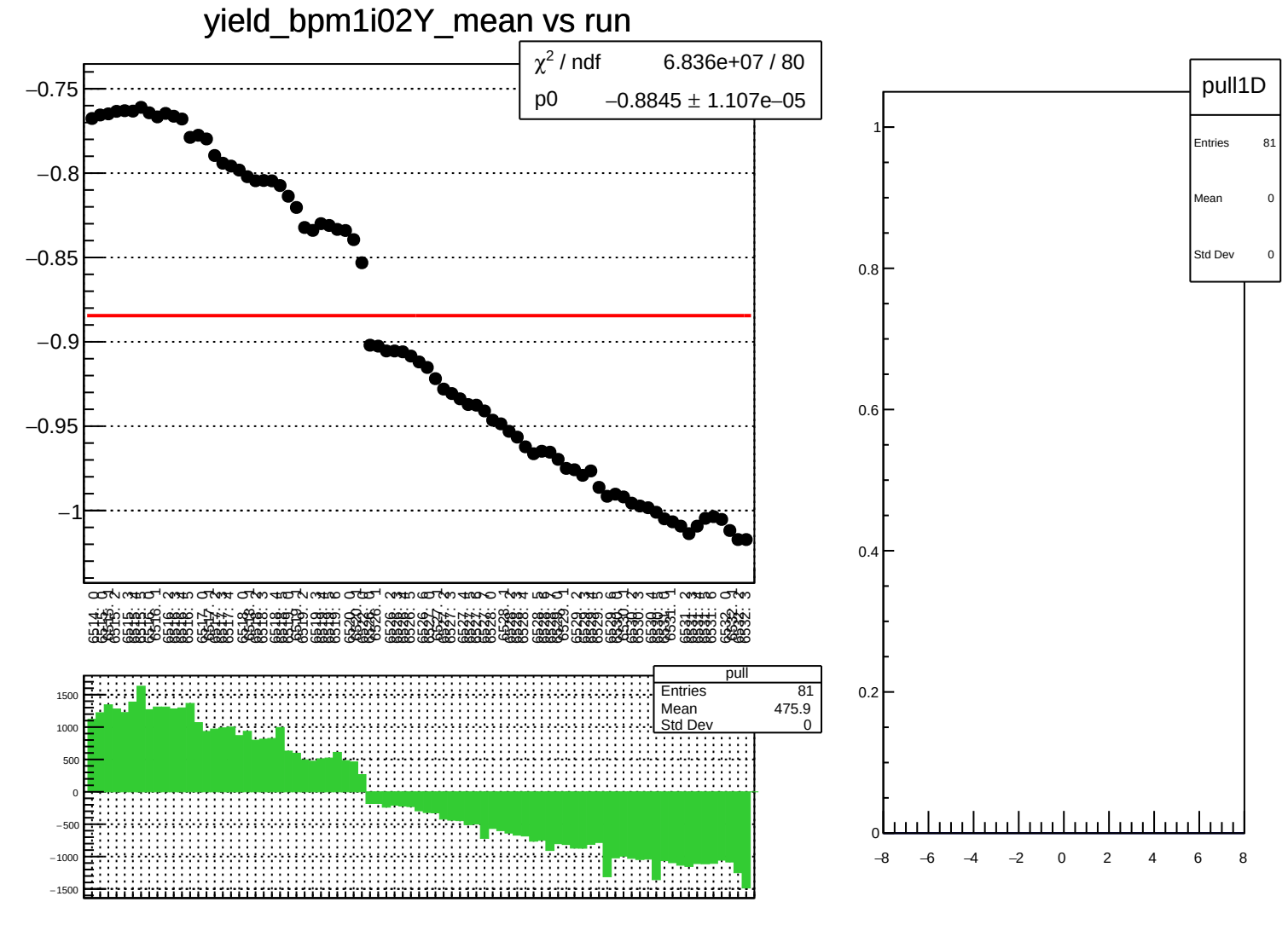
yield_bpm0i07Y_rms vs run



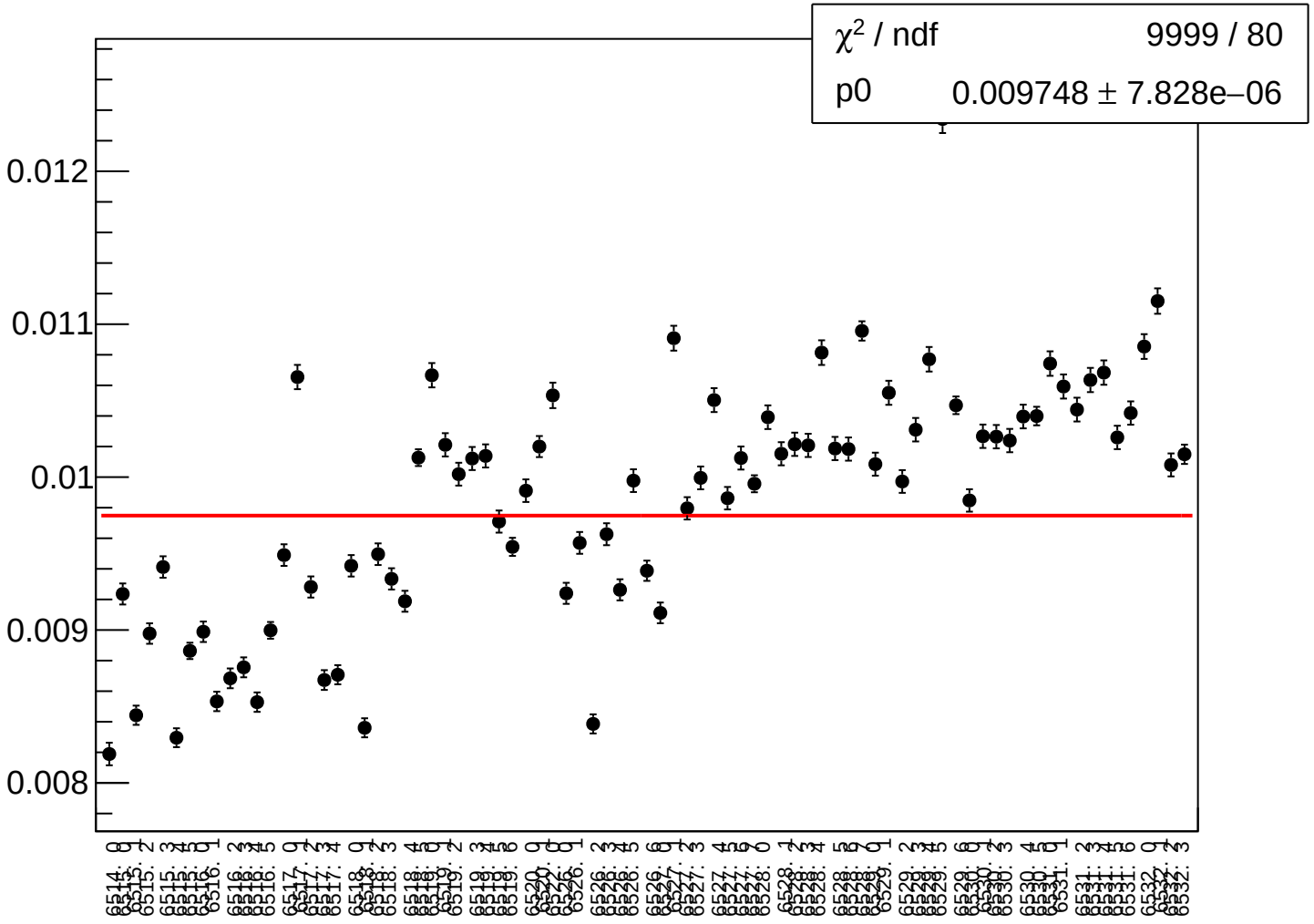

yield_bpm1i02X_mean vs run
χ² / ndf 4.846e+05 / 80
p0 −2.656 ± 1.49e−05
−2.63
−2.64
−2.65
−2.66
−2.67
−2.68
−2.69
pull
Entries 81
Mean 97.1
Std Dev 57.05
200
150
100
50
0
−50
−100
−150
−200

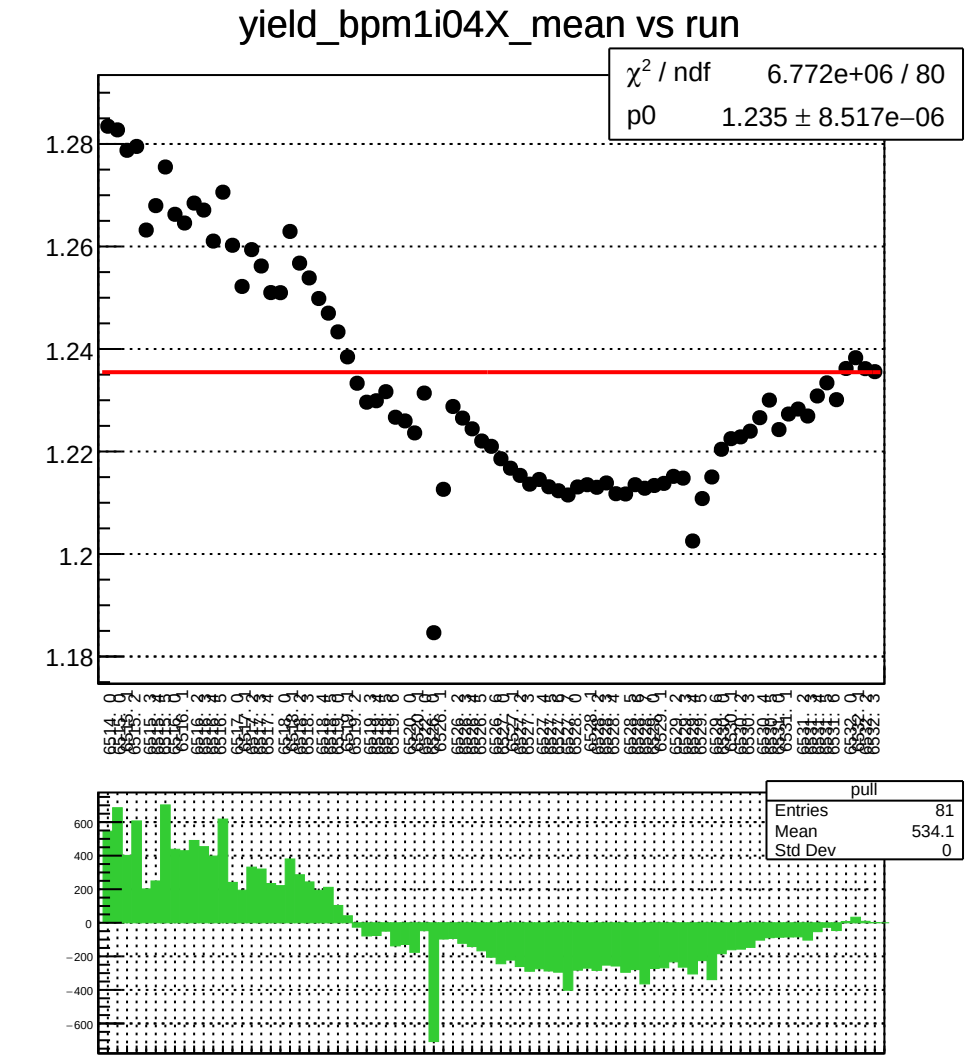

pull1D
Entries 81
Mean −0.4416
Std Dev 5.115
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

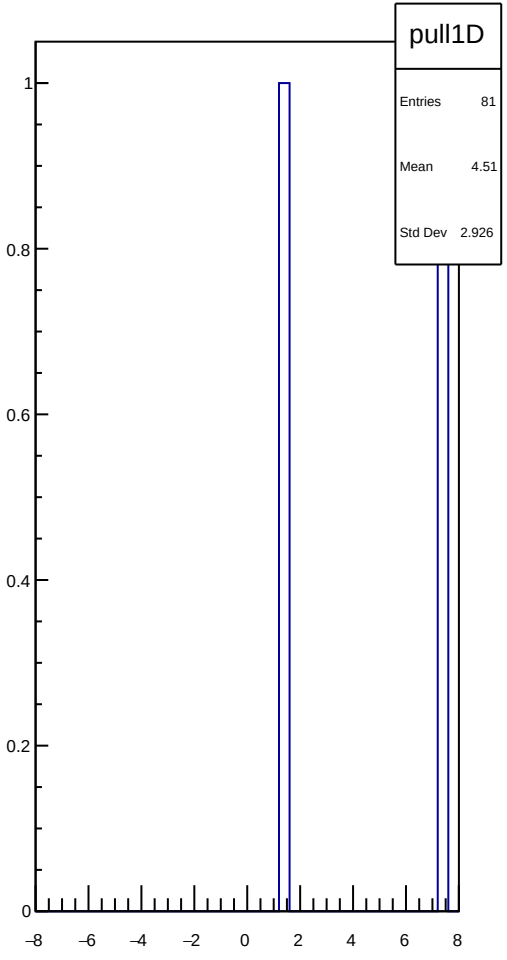

yield_bpm1i02X_rms vs run
χ² / ndf 2.901e+04 / 80
p0 0.01304 ± 1.054e−05
0.02
0.018
0.016
0.014
0.012
0.01

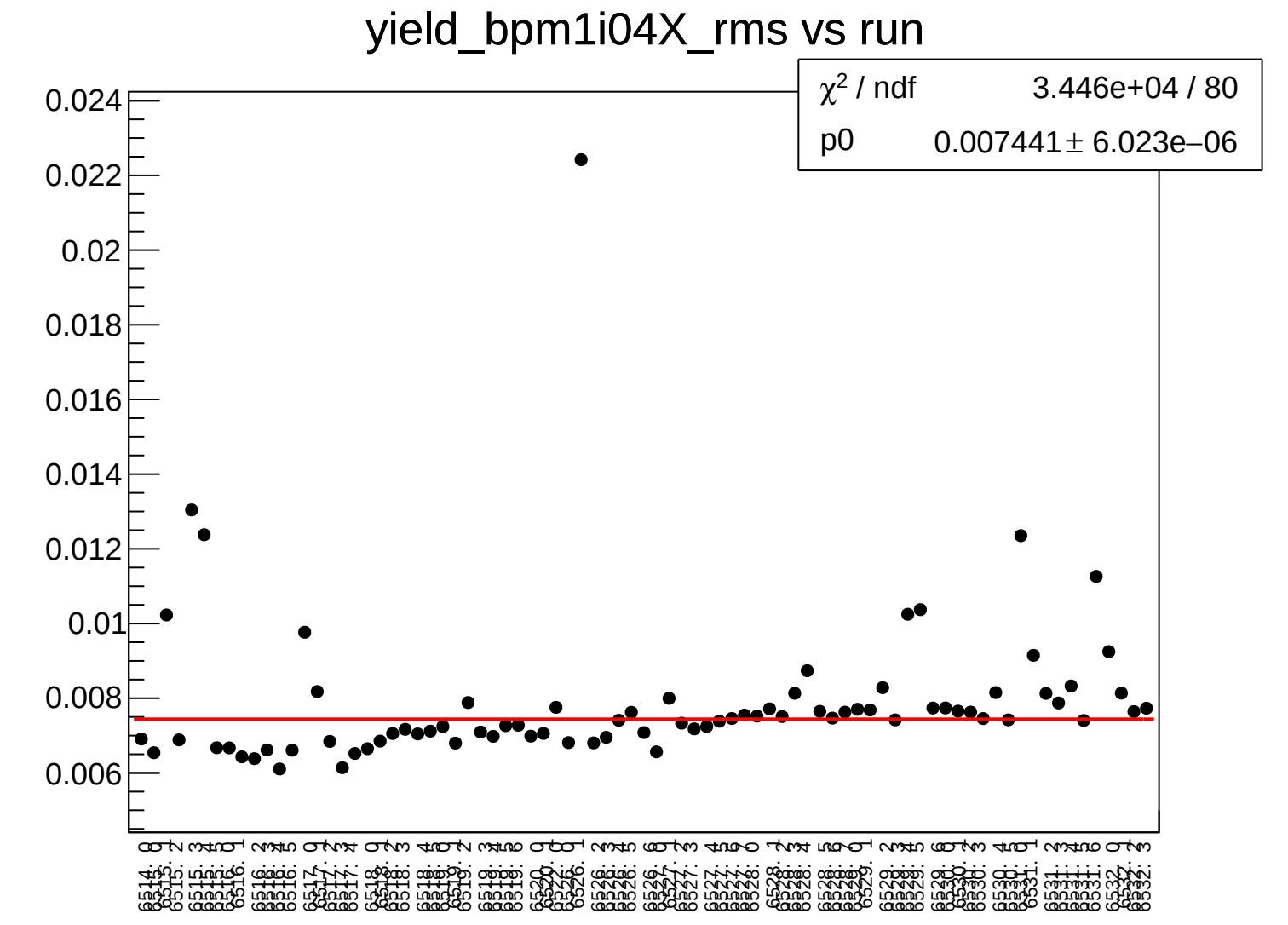

yield_bpm1i02Y_mean vs run
χ² / ndf 6.836e+07 / 80
p0 −0.8845 ± 1.107e−05
−0.75
−0.8
−0.85
−0.9
−0.95
−1
pull
Entries 81
Mean 475.9
Std Dev 0
1500
1000
500
0
−500
−1000
−1500
pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

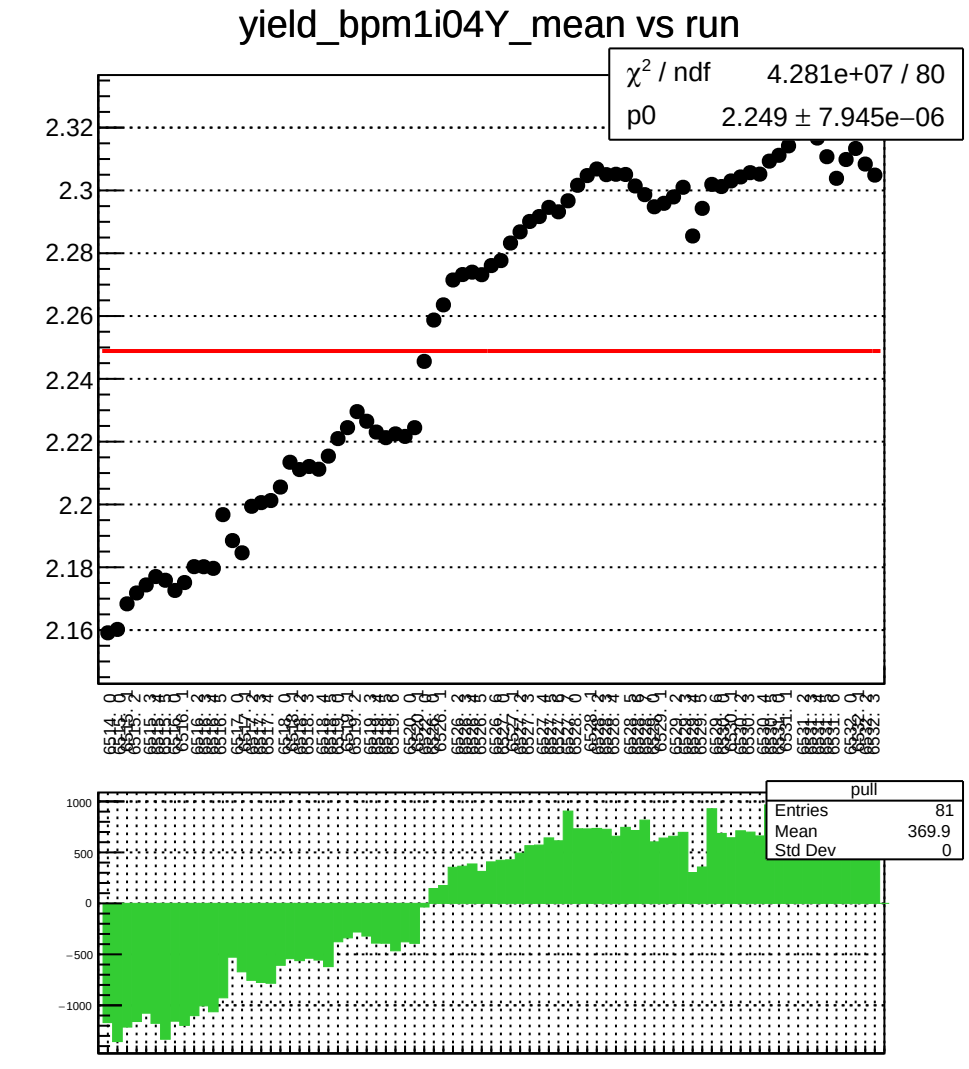
yield_bpm1i02Y_rms vs run

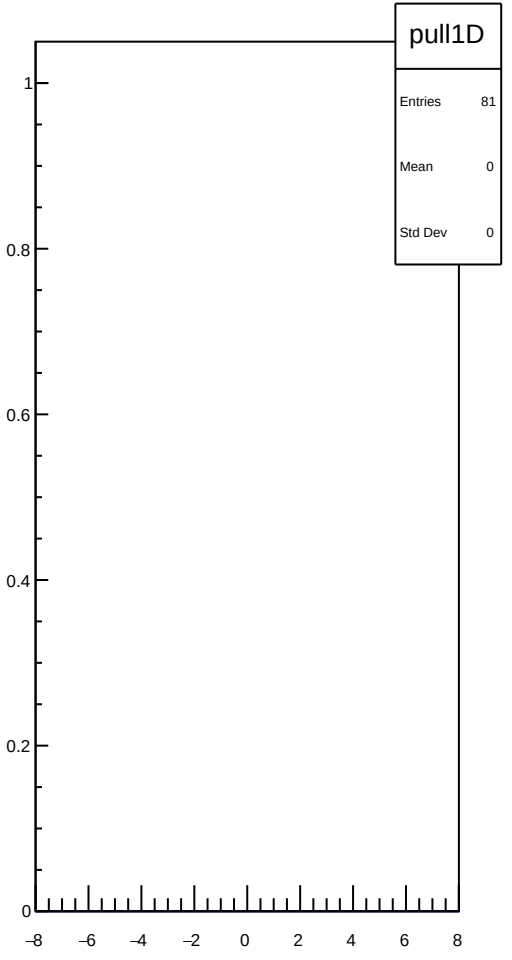


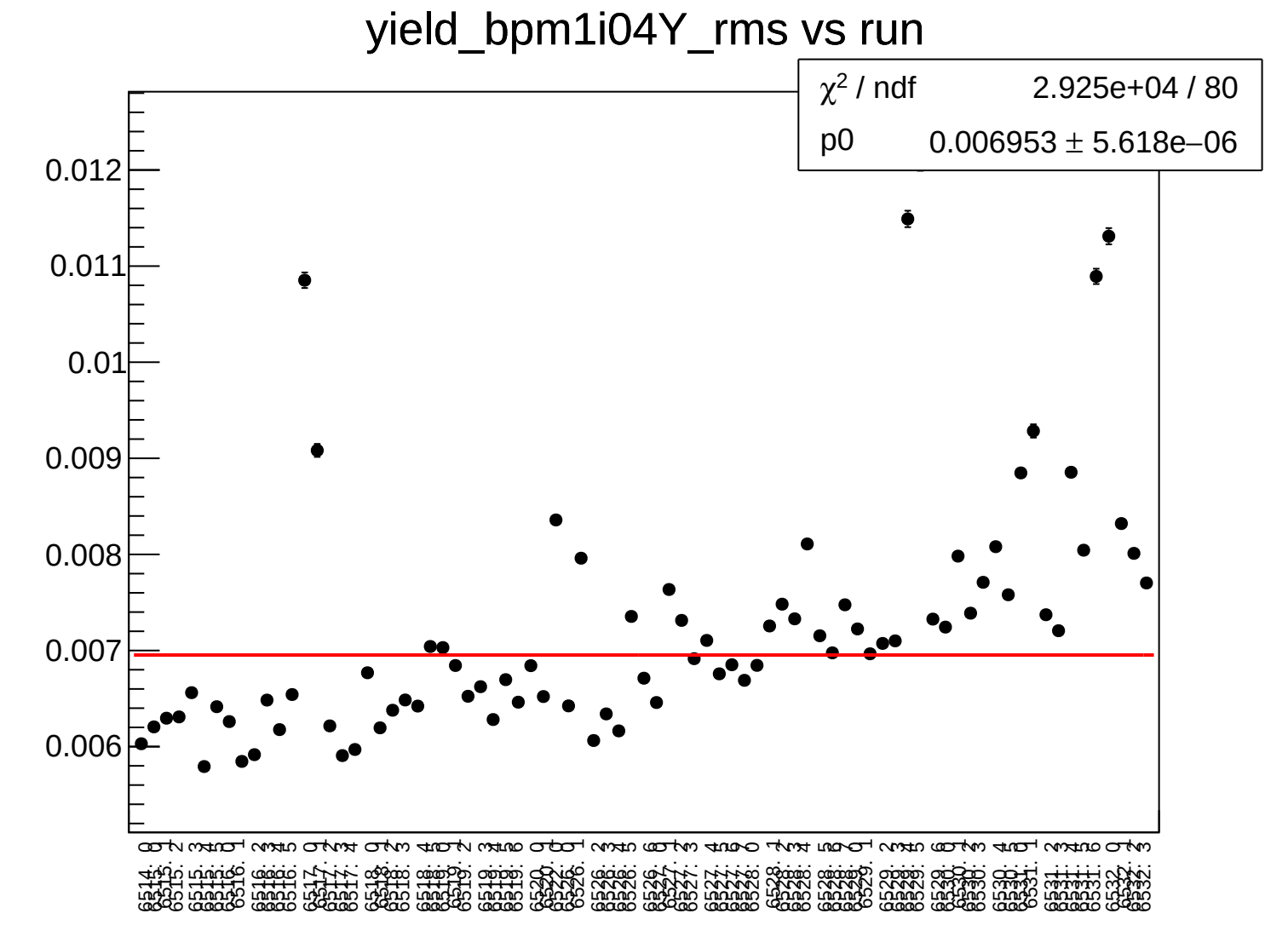

yield_bpm1i04X_mean vs run
χ² / ndf 6.772e+06 / 80
p0 1.235 ± 8.517e−06
1.28
1.26
1.24
1.22
1.2
1.18
pull
Entries 81
Mean 534.1
Std Dev 0
600
400
200
0
−200
−400
−600

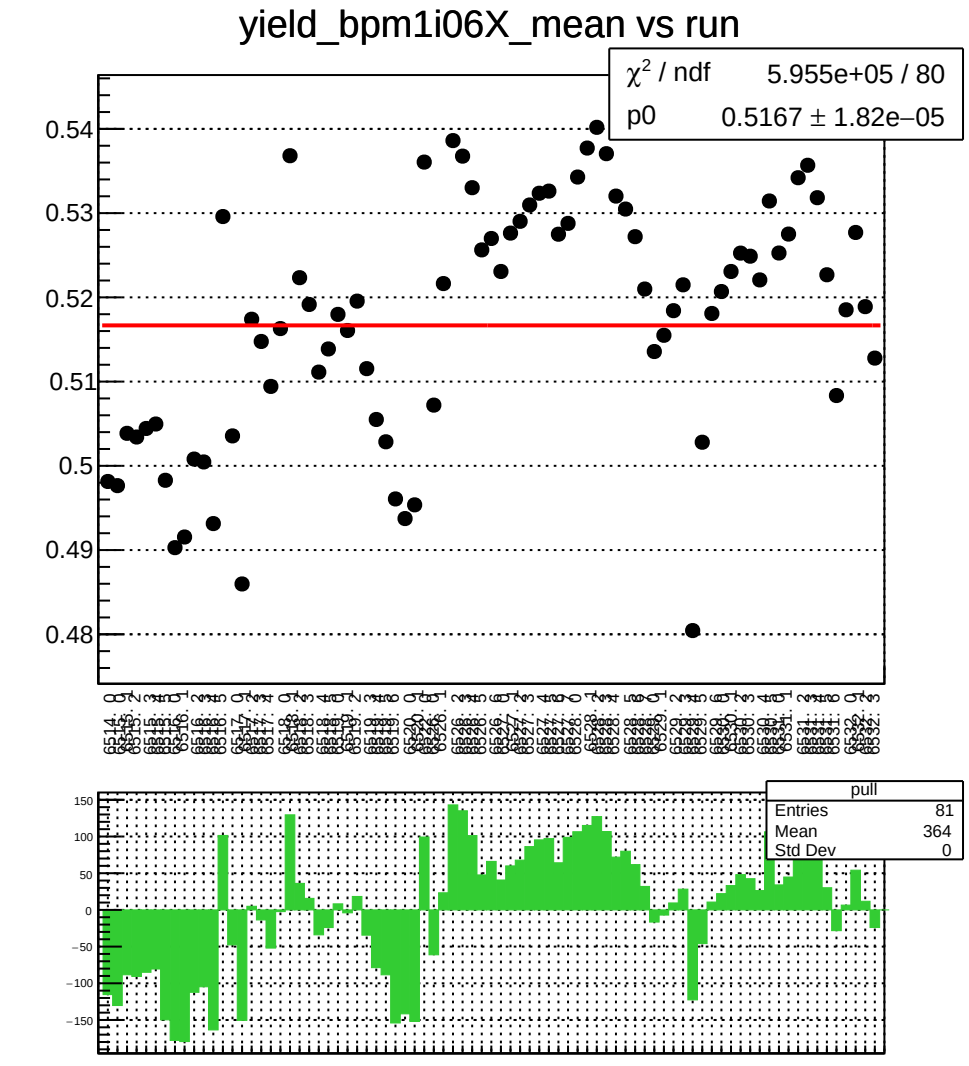

pull1D
Entries 81
Mean 4.51
Std Dev 2.926
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

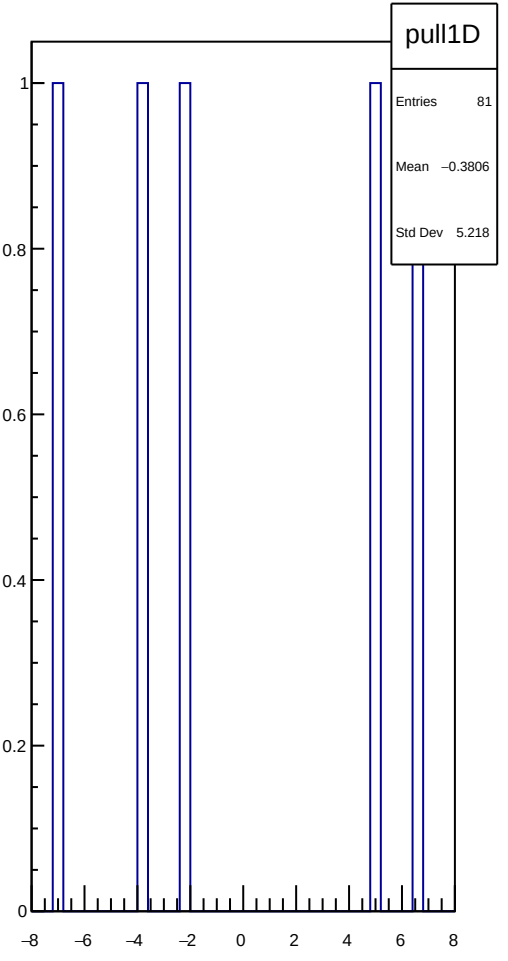

yield_bpm1i04X_rms vs run
χ² / ndf 3.446e+04 / 80
p0 0.007441 ± 6.023e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

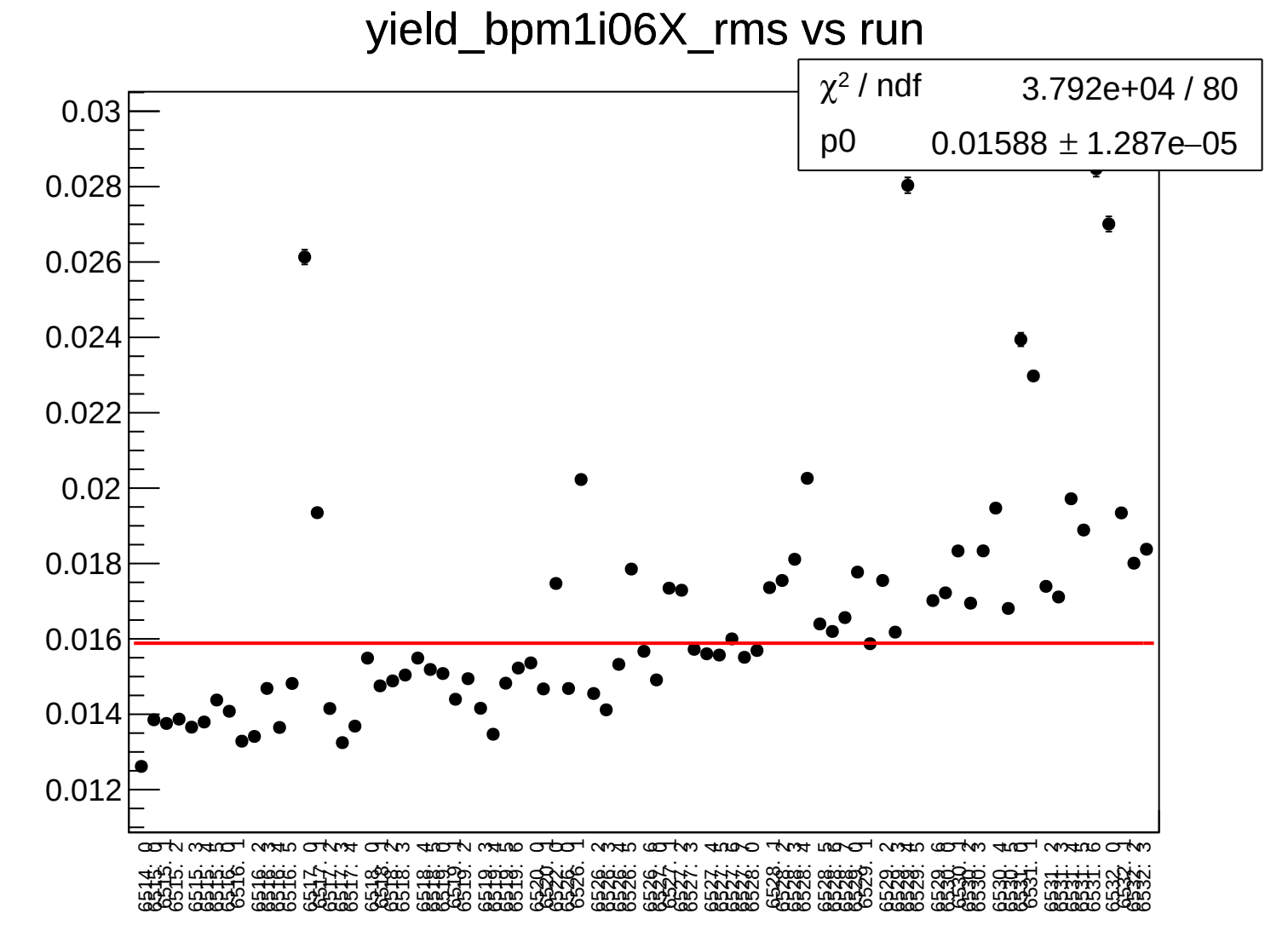

yield_bpm1i04Y_mean vs run
χ² / ndf 4.281e+07 / 80
p0 2.249 ± 7.945e−06
2.32
2.3
2.28
2.26
2.24
2.22
2.2
2.18
2.16
pull
Entries 81
Mean 369.9
Std Dev 0
1000
500
0
−500
−1000

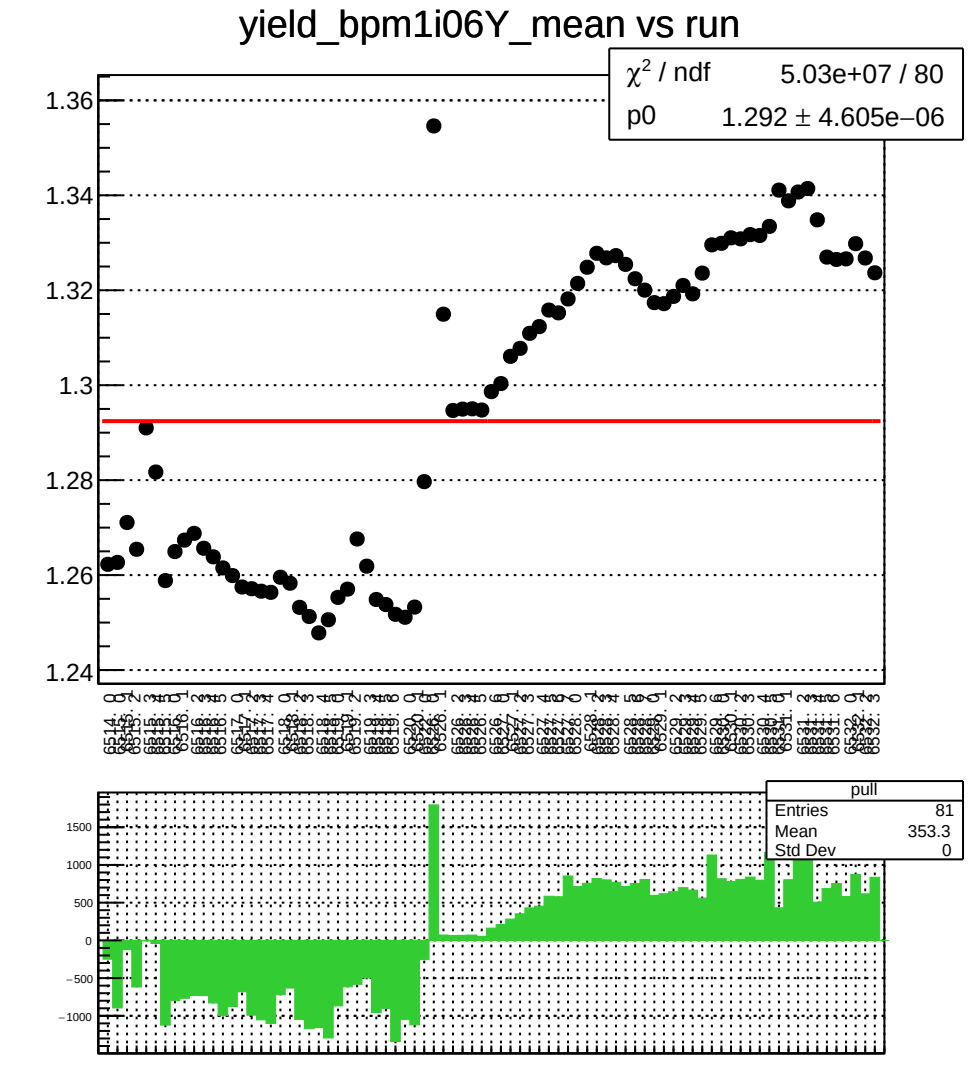

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

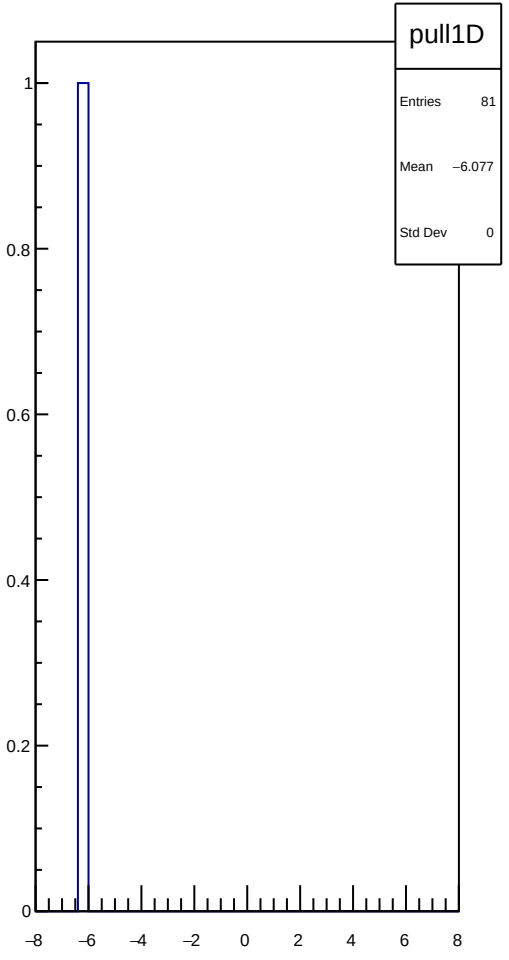

yield_bpm1i04Y_rms vs run
χ² / ndf 2.925e+04 / 80
p0 0.006953 ± 5.618e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006

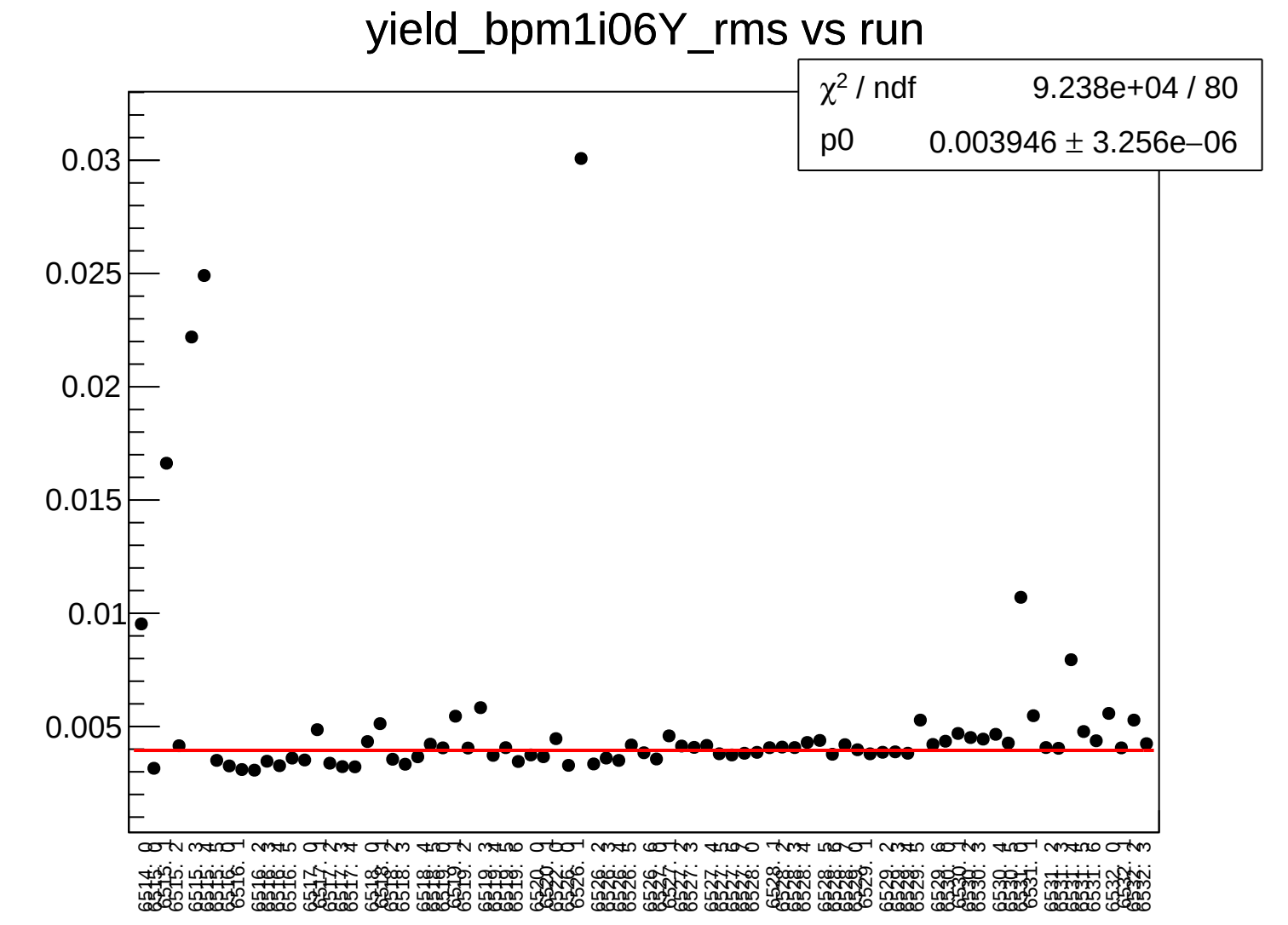

yield_bpm1i06X_mean vs run
χ² / ndf 5.955e+05 / 80
p0 0.5167 ± 1.82e−05
0.54
0.53
0.52
0.51
0.5
0.49
0.48
pull
Entries 81
Mean 364
Std Dev 0
150
100
50
0
−50
−100
−150

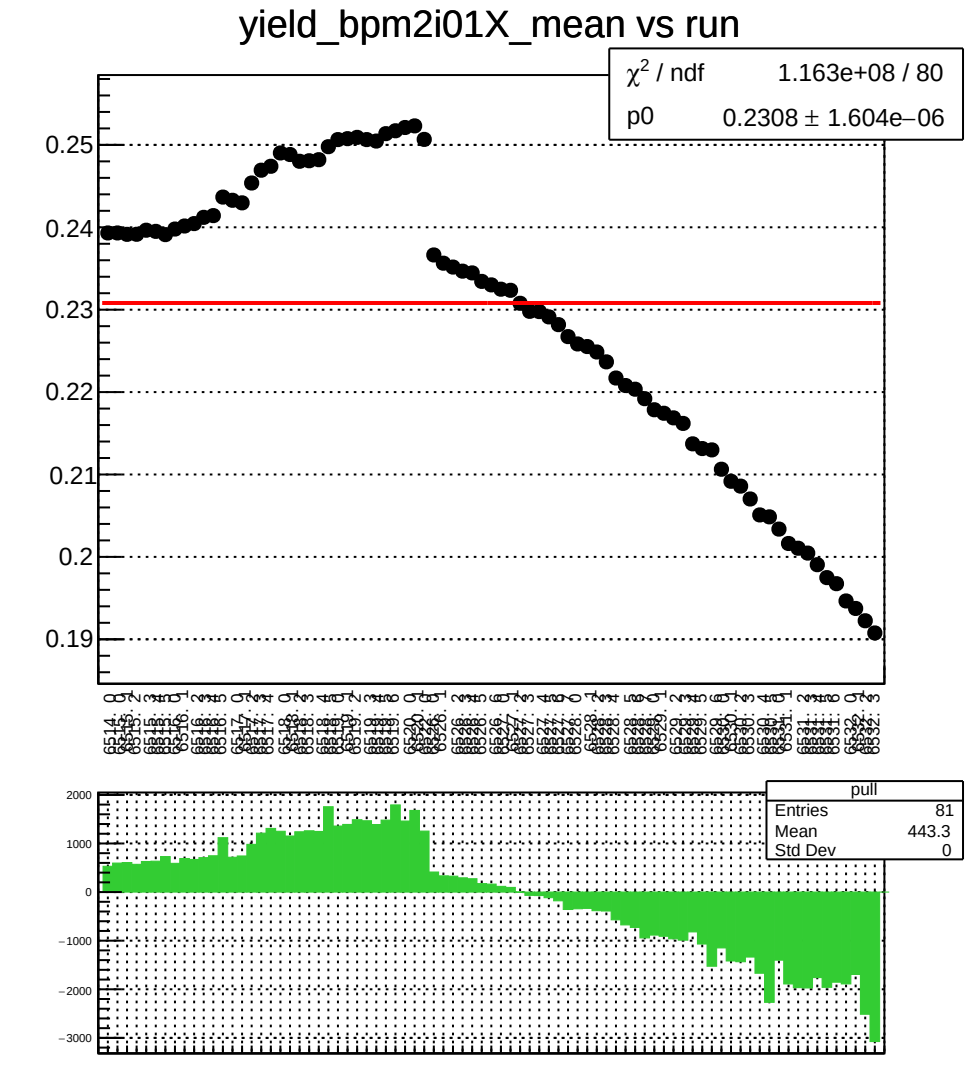

pull1D
Entries 81
Mean −0.3806
Std Dev 5.218
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

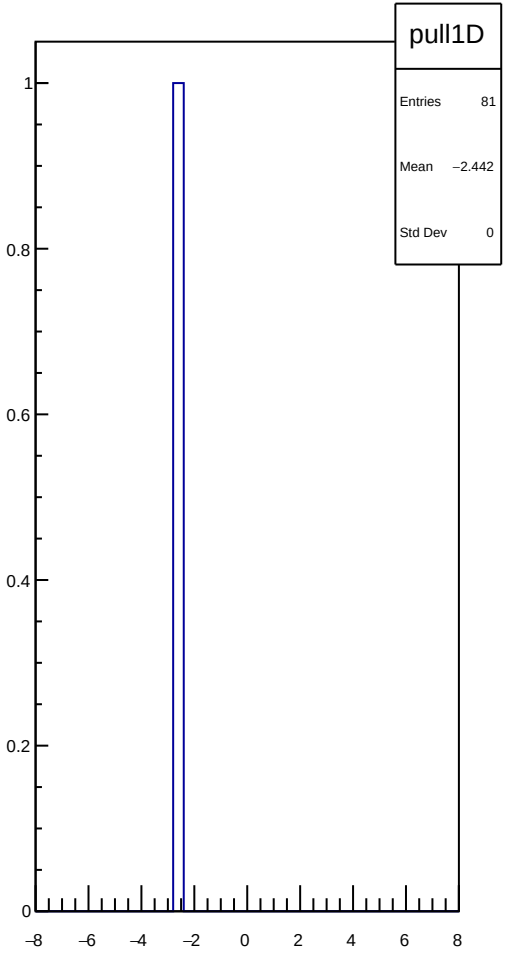

yield_bpm1i06X_rms vs run
χ² / ndf 3.792e+04 / 80
p0 0.01588 ± 1.287e–05
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012


yield_bpm1i06Y_mean vs run
χ² / ndf 5.03e+07 / 80
p0 1.292 ± 4.605e−06
1.36
1.34
1.32
1.3
1.28
1.26
1.24
pull
Entries 81
Mean 353.3
Std Dev 0
1500
1000
500
0
−500
−1000

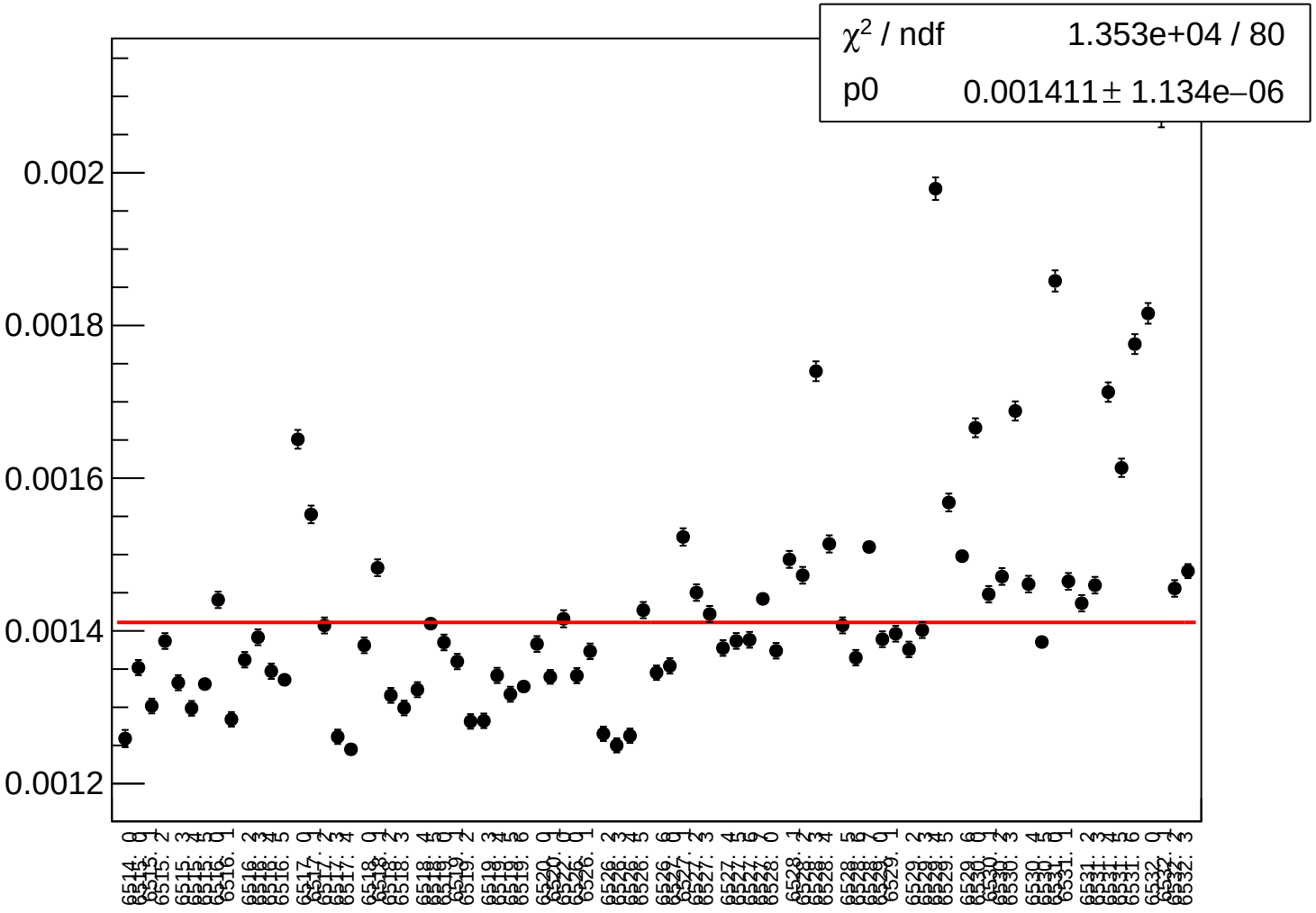

pull1D
Entries 81
Mean −6.077
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

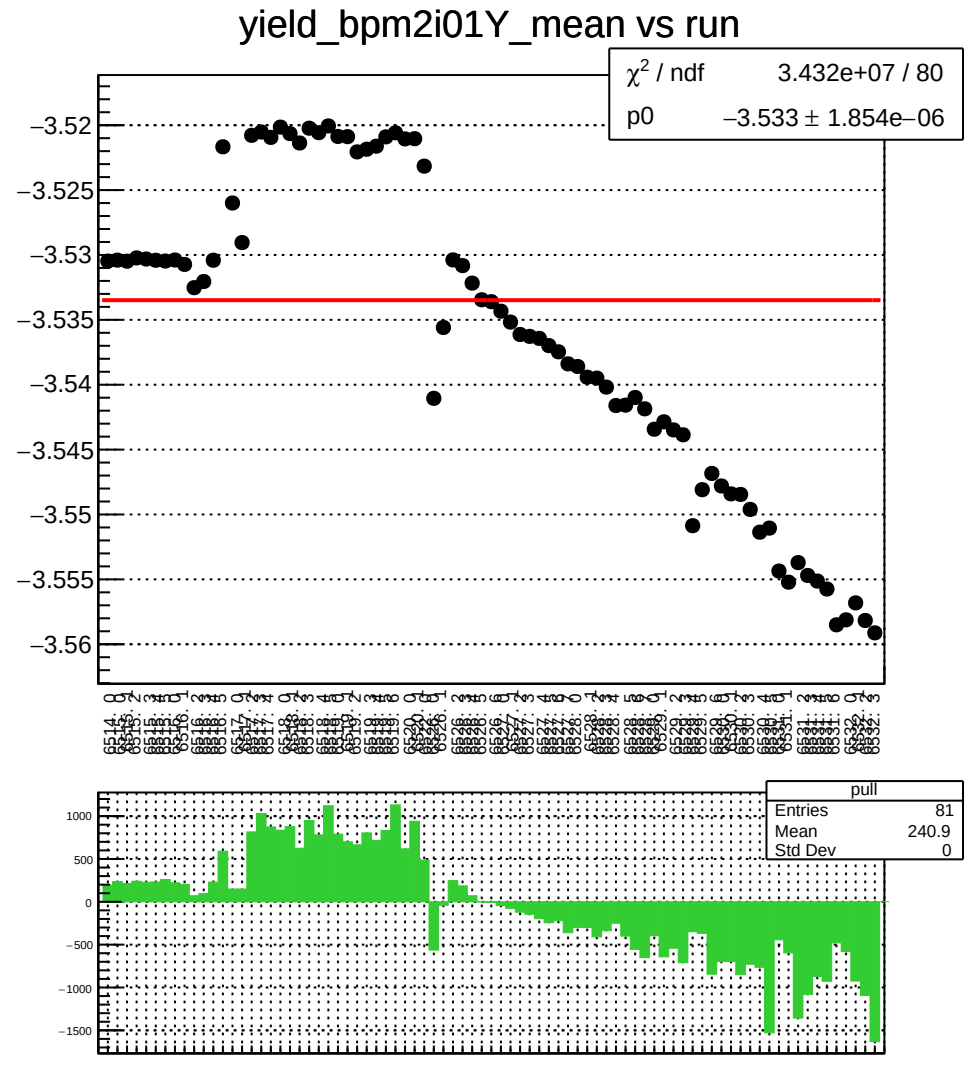

yield_bpm1i06Y_rms vs run
χ² / ndf 9.238e+04 / 80
p0 0.003946 ± 3.256e−06
0.03
0.025
0.02
0.015
0.01
0.005

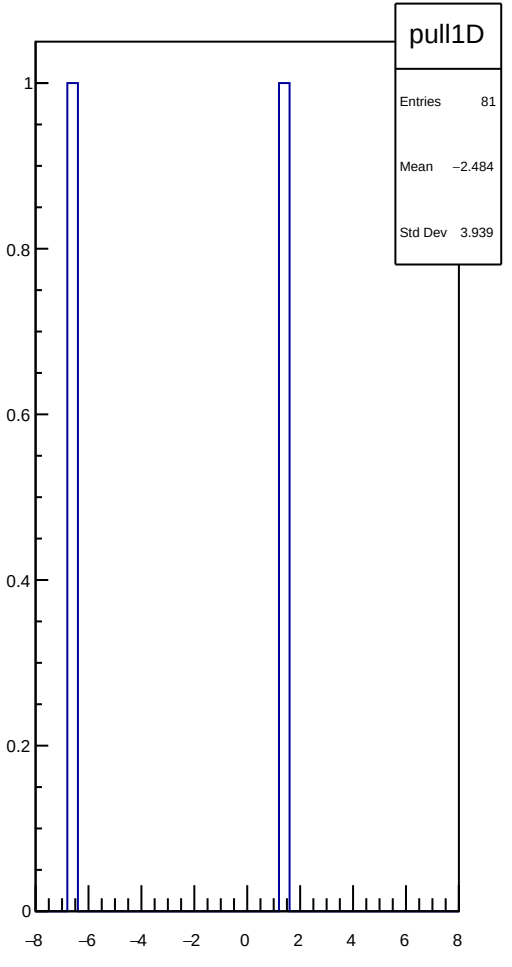

yield_bpm2i01X_mean vs run
χ² / ndf 1.163e+08 / 80
p0 0.2308 ± 1.604e−06
0.25
0.24
0.23
0.22
0.21
0.2
0.19
pull
Entries 81
Mean 443.3
Std Dev 0
2000
1000
0
−1000
−2000
−3000

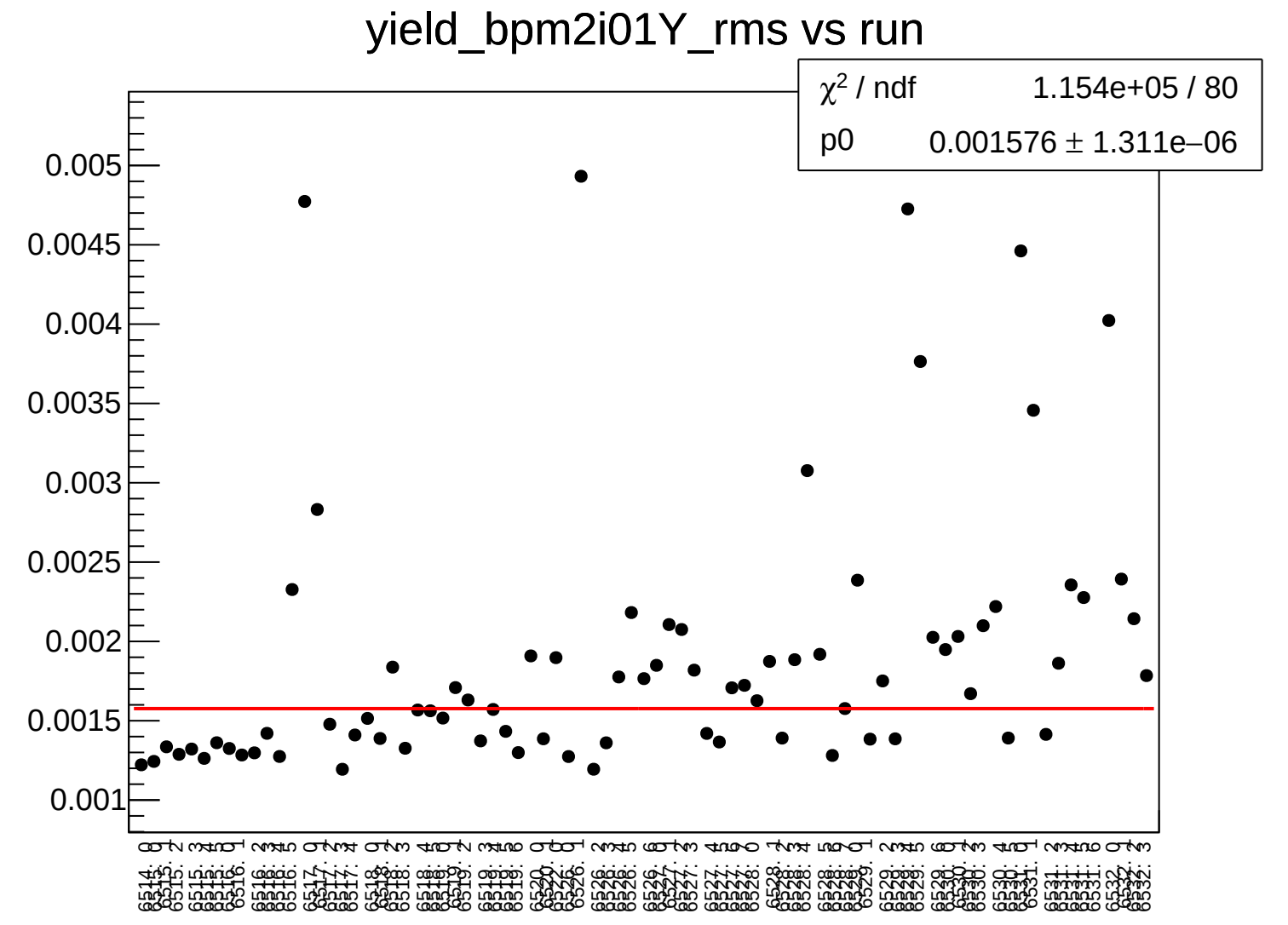

pull1D
Entries 81
Mean −2.442
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

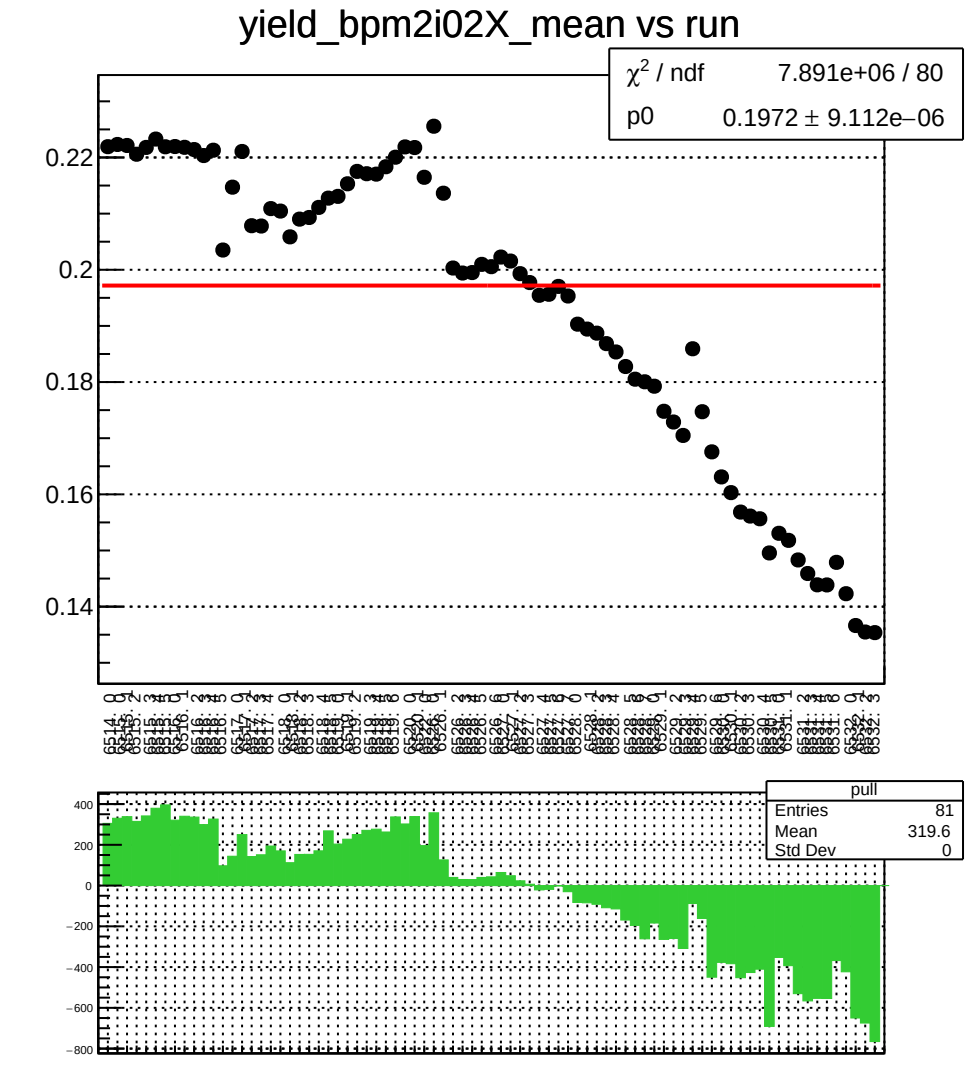
yield_bpm2i01X_rms vs run

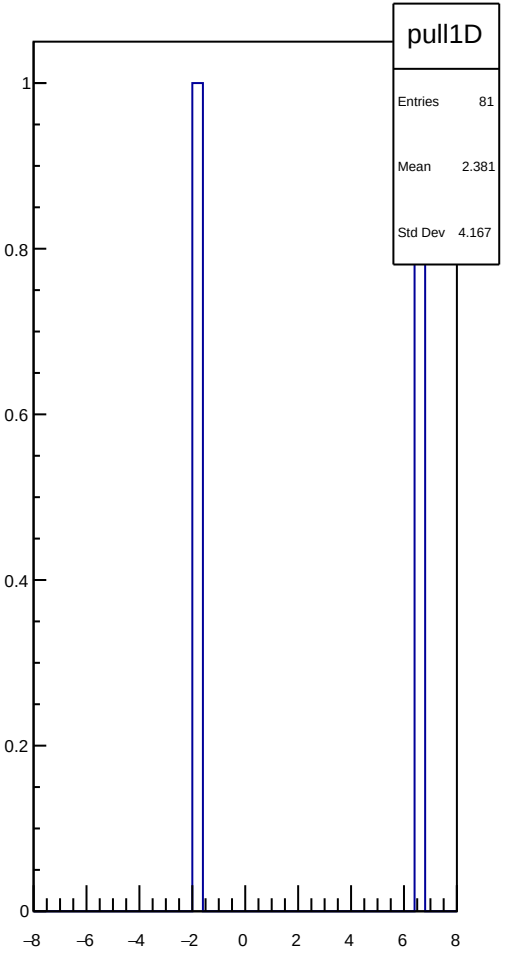


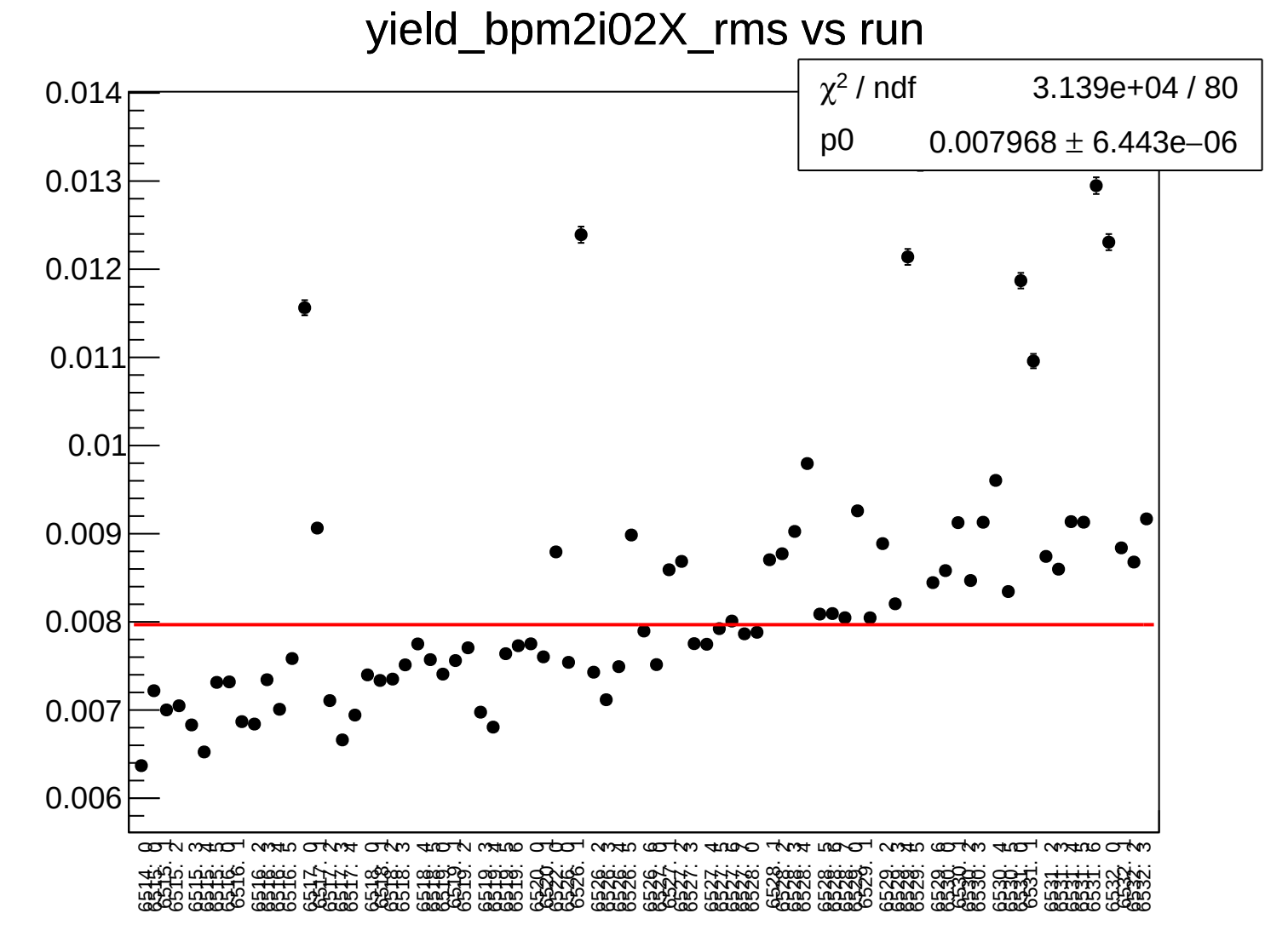

yield_bpm2i01Y_mean vs run
χ² / ndf 3.432e+07 / 80
p0 −3.533 ± 1.854e−06
−3.52
−3.525
−3.53
−3.535
−3.54
−3.545
−3.55
−3.555
−3.56
pull
Entries 81
Mean 240.9
Std Dev 0
1000
500
0
−500
−1000
−1500

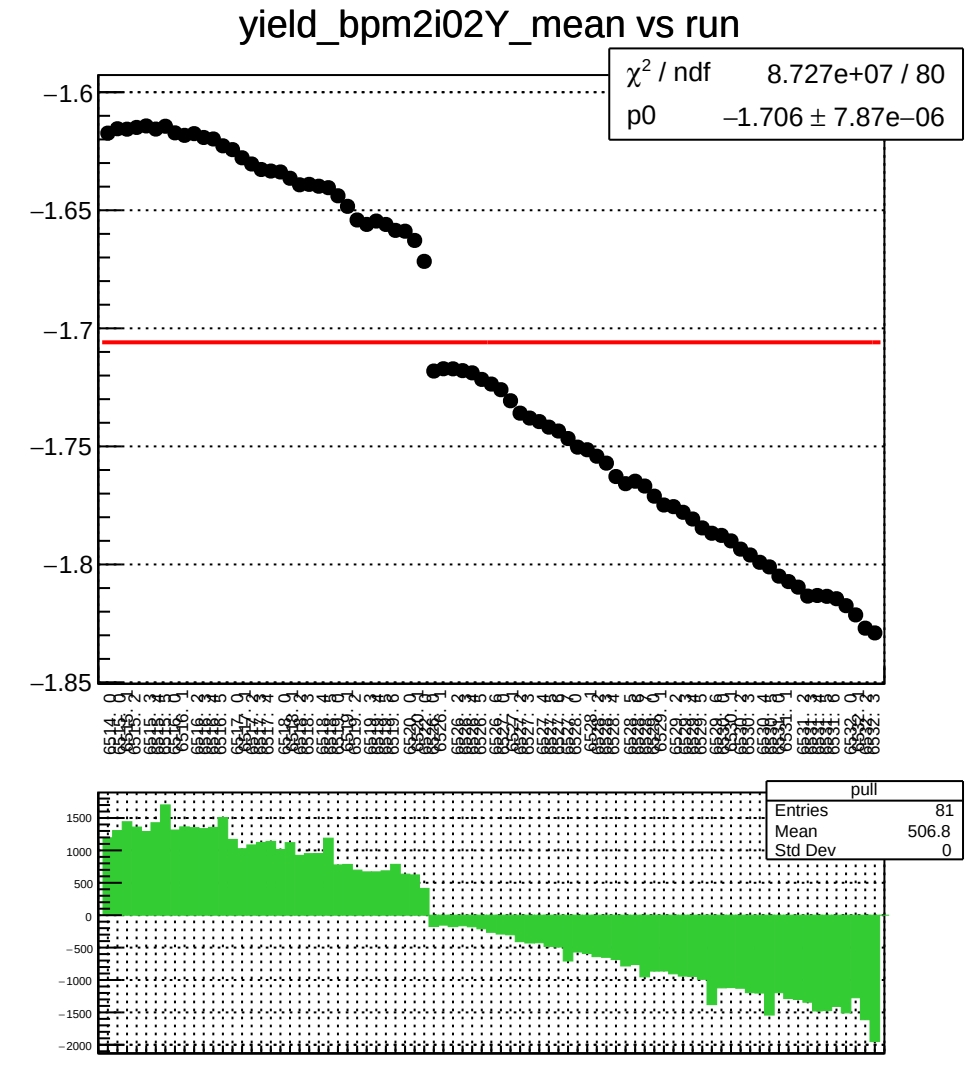

pull1D
Entries 81
Mean −2.484
Std Dev 3.939
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

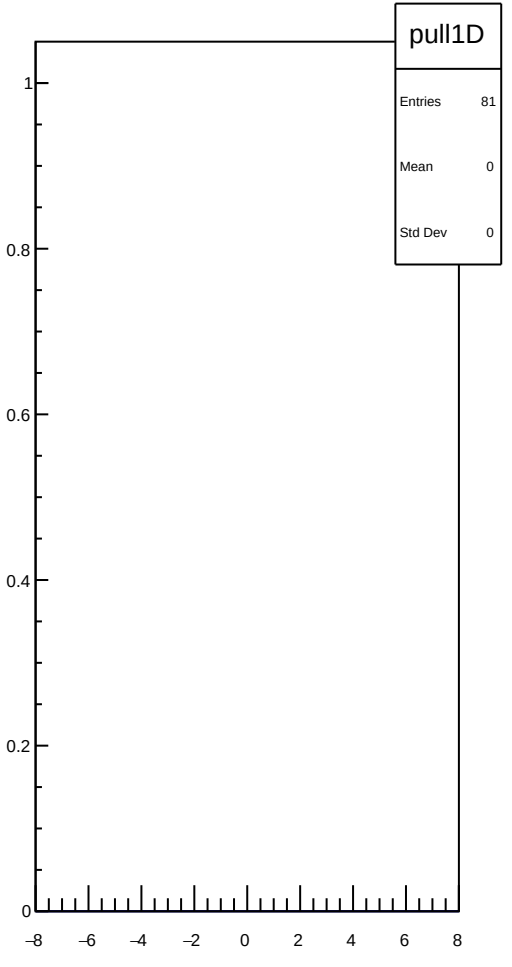

yield_bpm2i01Y_rms vs run
χ² / ndf 1.154e+05 / 80
p0 0.001576 ± 1.311e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

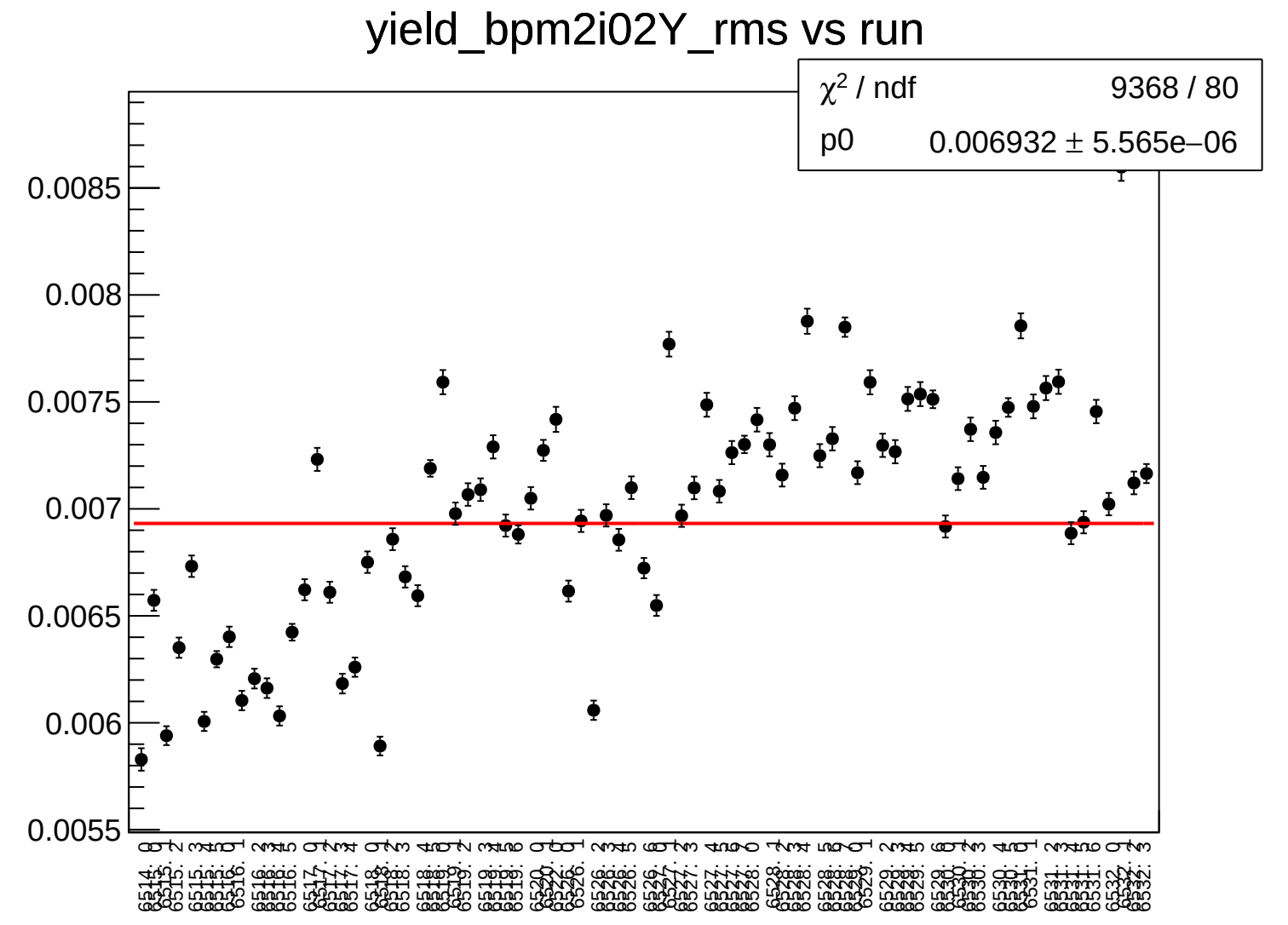

yield_bpm2i02X_mean vs run
χ² / ndf 7.891e+06 / 80
p0 0.1972 ± 9.112e−06
0.22
0.2
0.18
0.16
0.14
pull
Entries 81
Mean 319.6
Std Dev 0
400
200
0
−200
−400
−600
−800

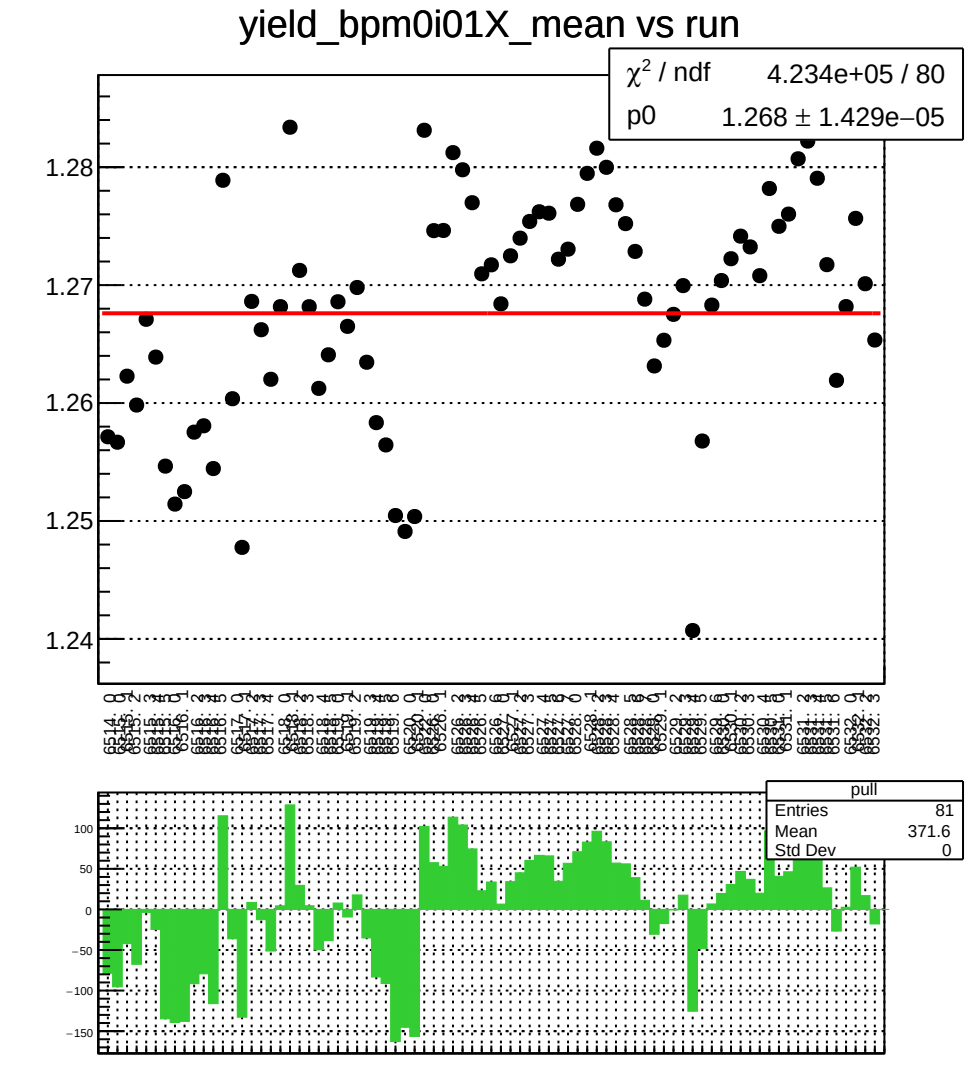

pull1D
Entries 81
Mean 2.381
Std Dev 4.167
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

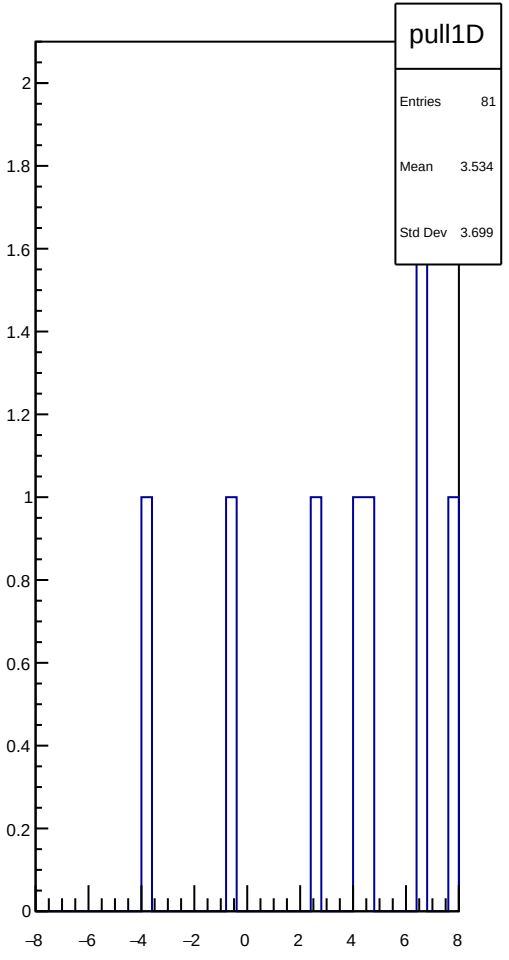

yield_bpm2i02X_rms vs run
χ² / ndf 3.139e+04 / 80
p0 0.007968 ± 6.443e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006

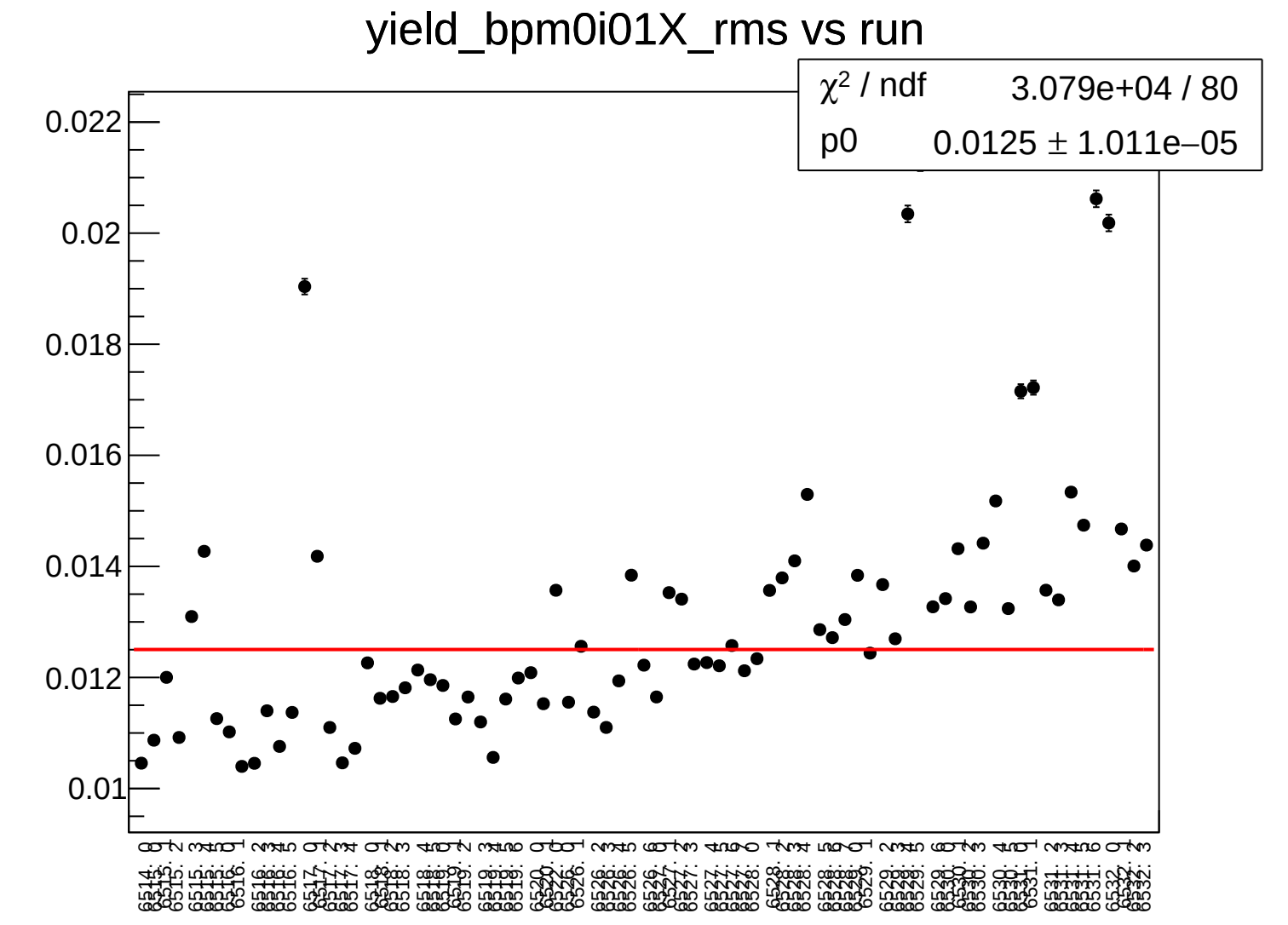

yield_bpm2i02Y_mean vs run
χ² / ndf 8.727e+07 / 80
p0 –1.706 ± 7.87e–06
–1.6
–1.65
–1.7
–1.75
–1.8
–1.85
pull
Entries 81
Mean 506.8
Std Dev 0
1500
1000
500
0
–500
–1000
–1500
–2000

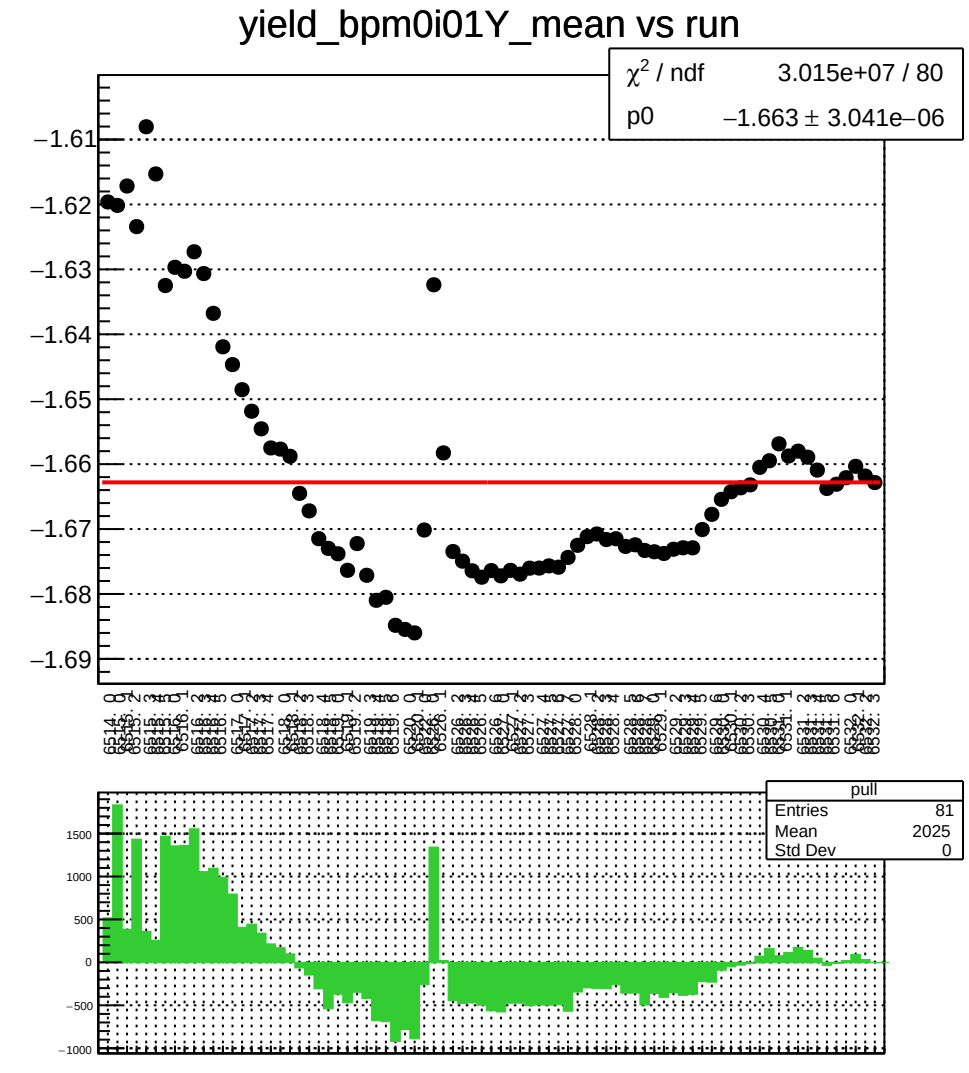

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

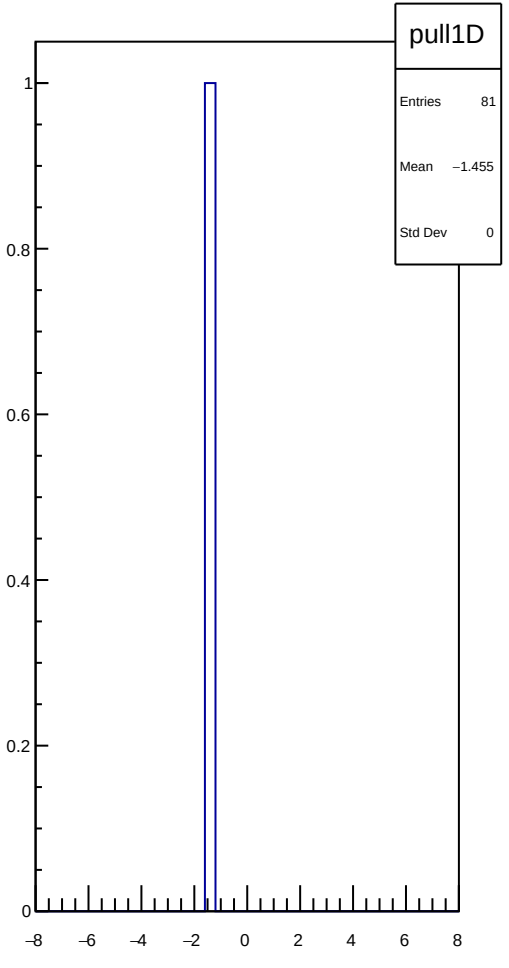

yield_bpm2i02Y_rms vs run
χ² / ndf 9368 / 80
p0 0.006932 ± 5.565e−06
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055

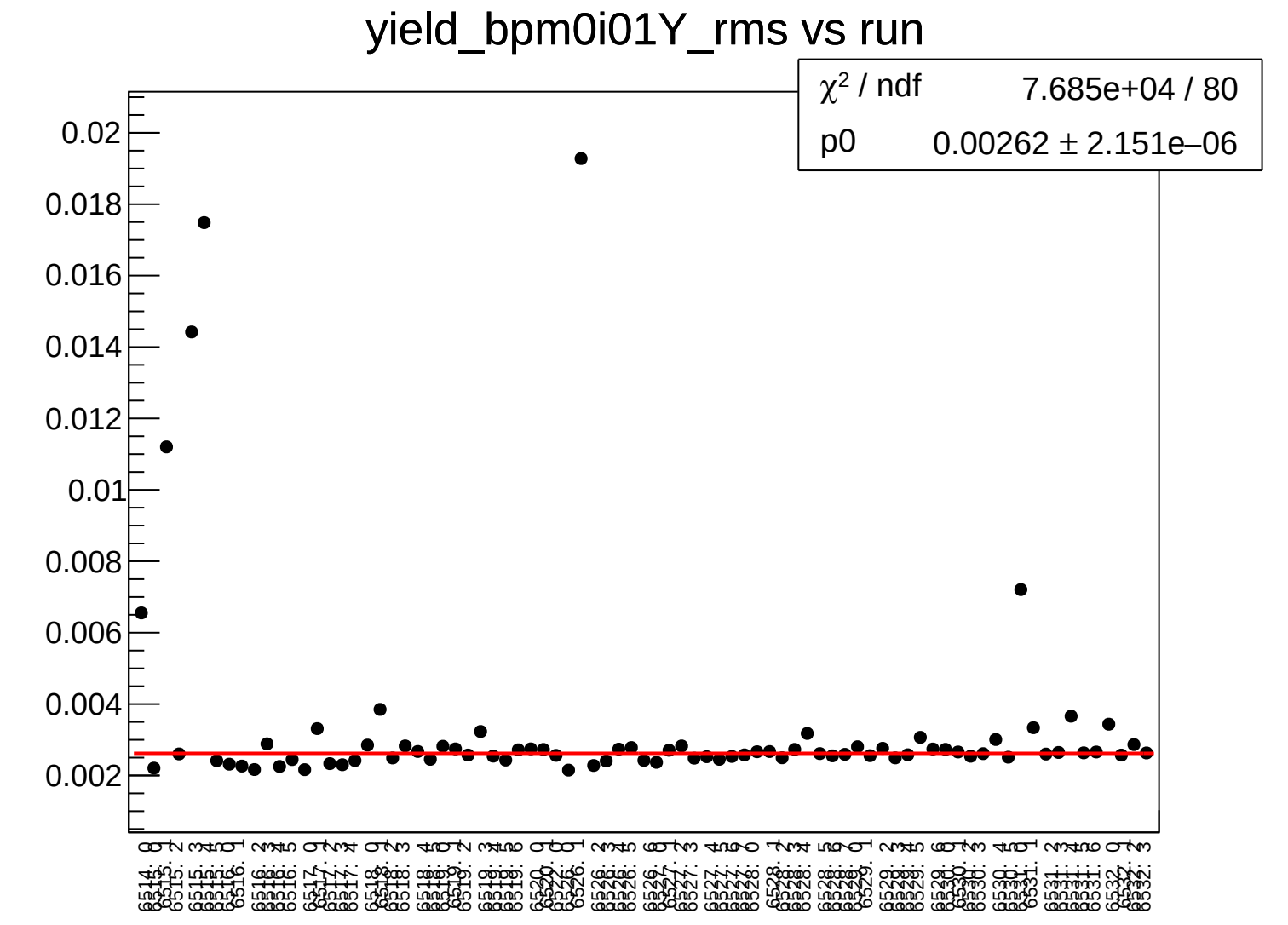

yield_bpm0i01X_mean vs run
χ² / ndf 4.234e+05 / 80
p0 1.268 ± 1.429e−05
1.28
1.27
1.26
1.25
1.24
pull
Entries 81
Mean 371.6
Std Dev 0
100
50
0
−50
−100
−150

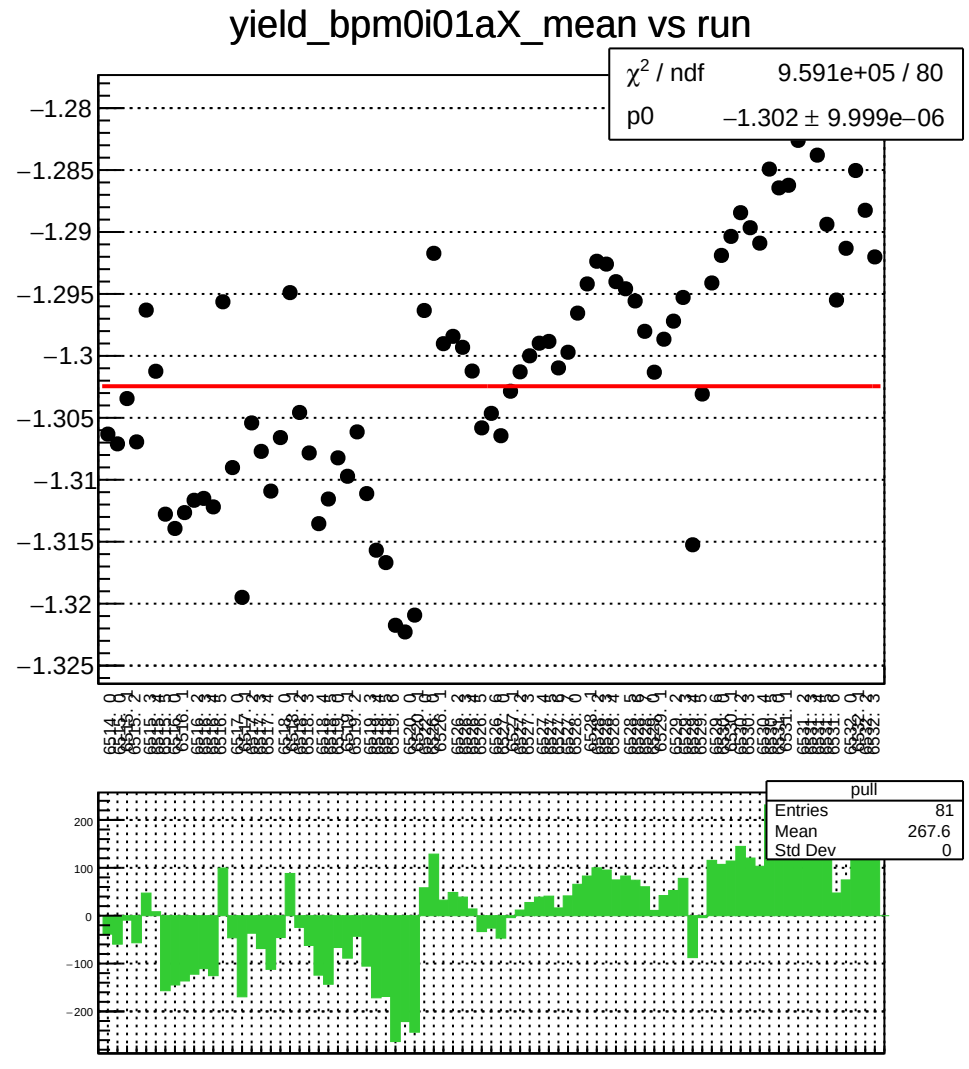

pull1D
Entries 81
Mean 3.534
Std Dev 3.699
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

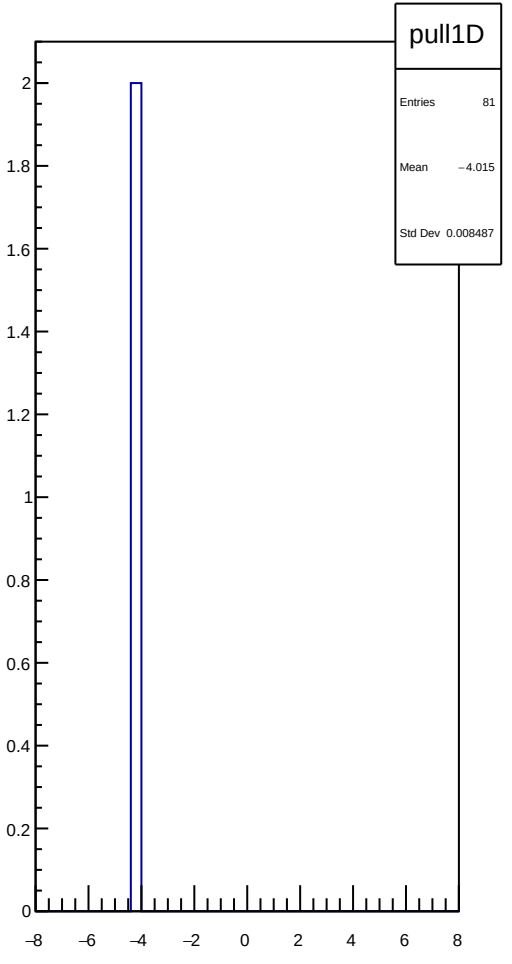

yield_bpm0i01X_rms vs run
χ² / ndf 3.079e+04 / 80
p0 0.0125 ± 1.011e−05
0.022
0.02
0.018
0.016
0.014
0.012
0.01

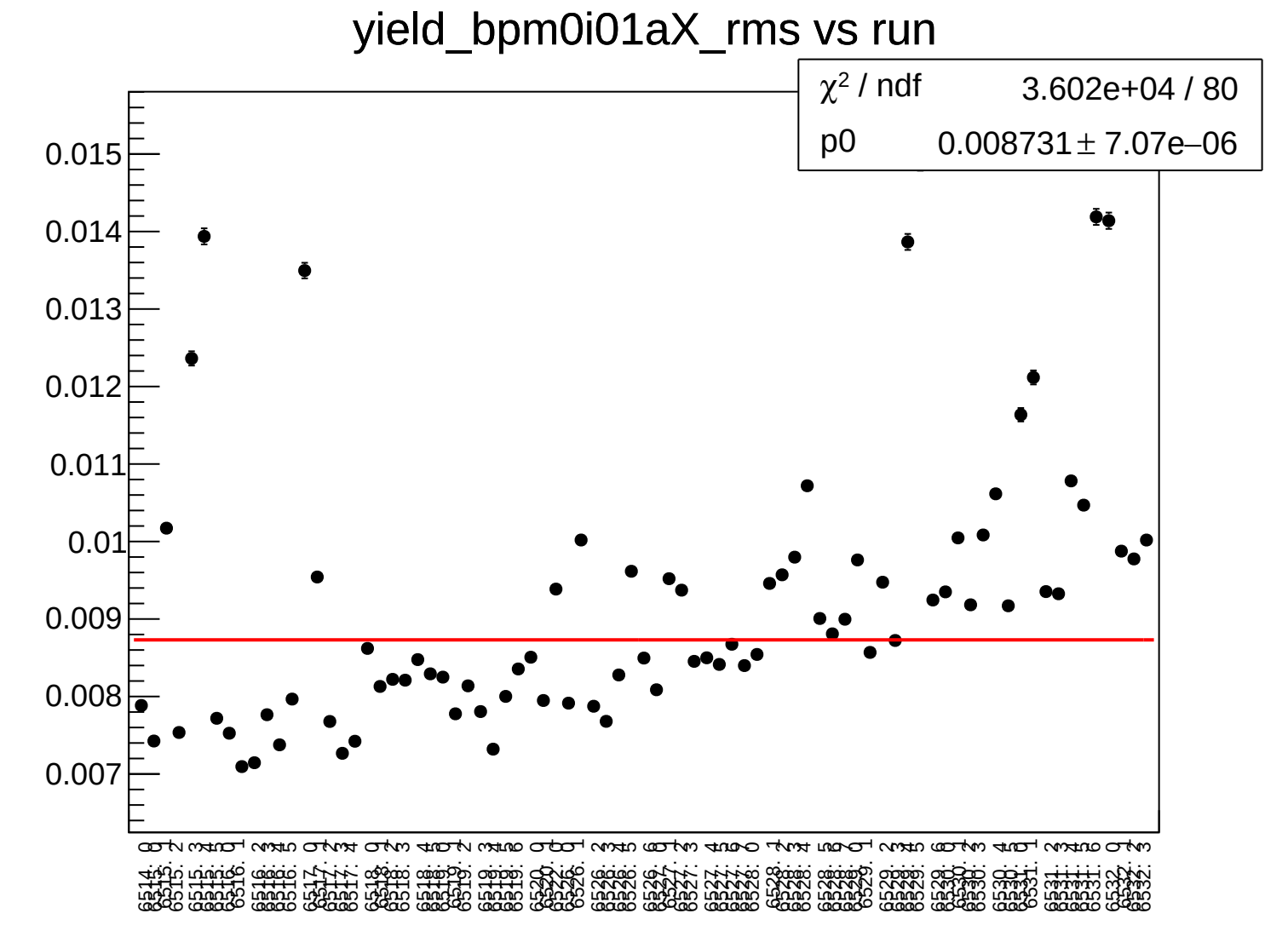

yield_bpm0i01Y_mean vs run
χ² / ndf 3.015e+07 / 80
p0 −1.663 ± 3.041e−06
−1.61
−1.62
−1.63
−1.64
−1.65
−1.66
−1.67
−1.68
−1.69
pull
Entries 81
Mean 2025
Std Dev 0
1500
1000
500
0
−500
−1000

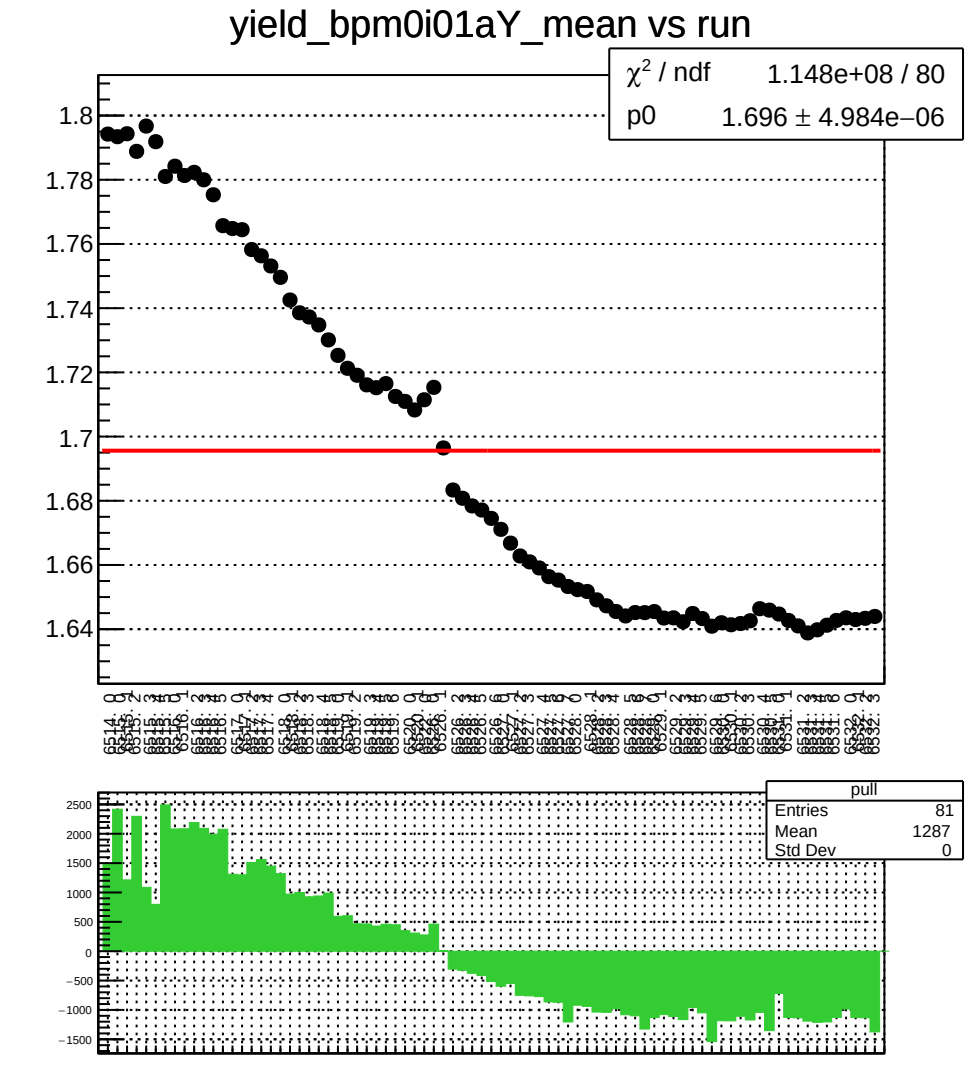

pull1D
Entries 81
Mean −1.455
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

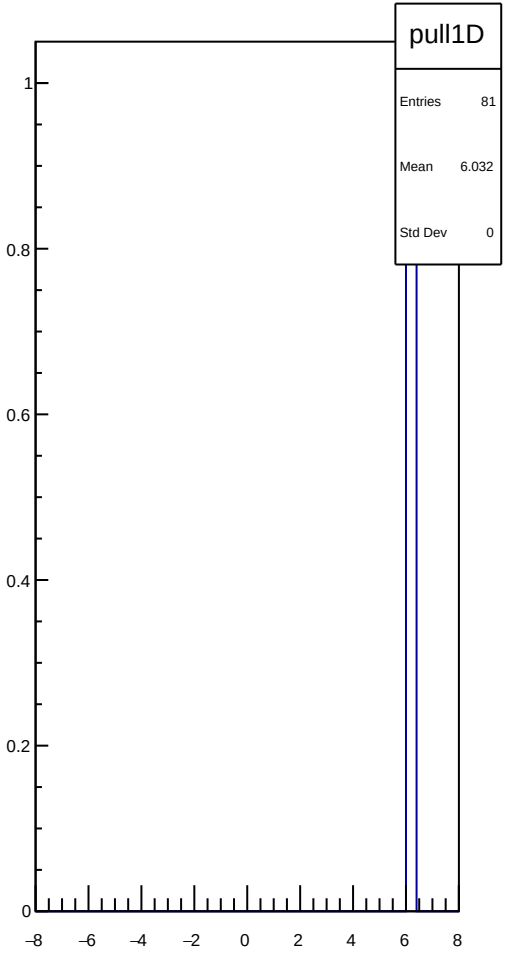

yield_bpm0i01Y_rms vs run
χ² / ndf 7.685e+04 / 80
p0 0.00262 ± 2.151e–06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

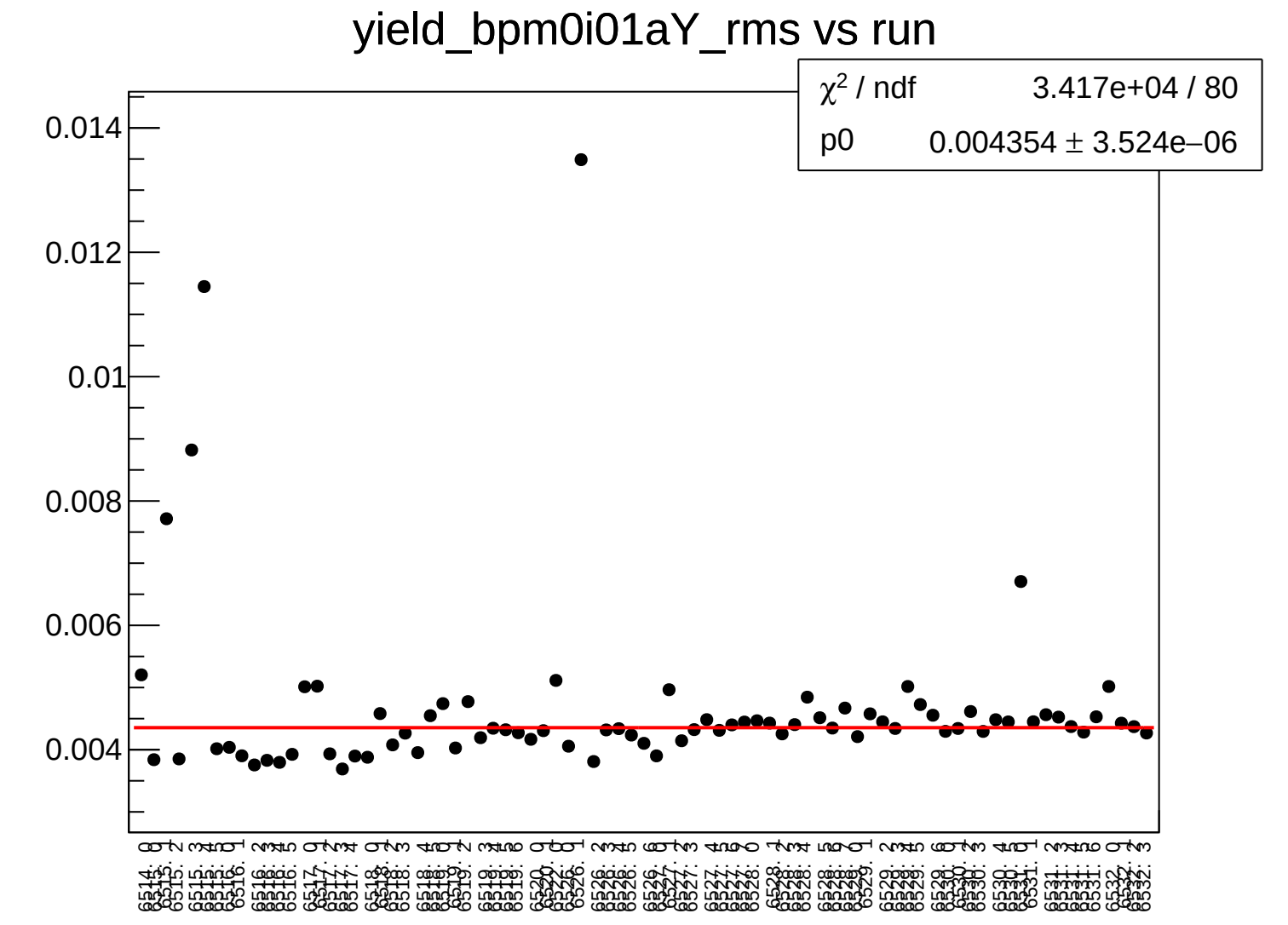

yield_bpm0i01aX_mean vs run
χ² / ndf 9.591e+05 / 80
p0 −1.302 ± 9.999e−06
−1.28
−1.285
−1.29
−1.295
−1.3
−1.305
−1.31
−1.315
−1.32
−1.325
pull
Entries 81
Mean 267.6
Std Dev 0
200
100
0
−100
−200

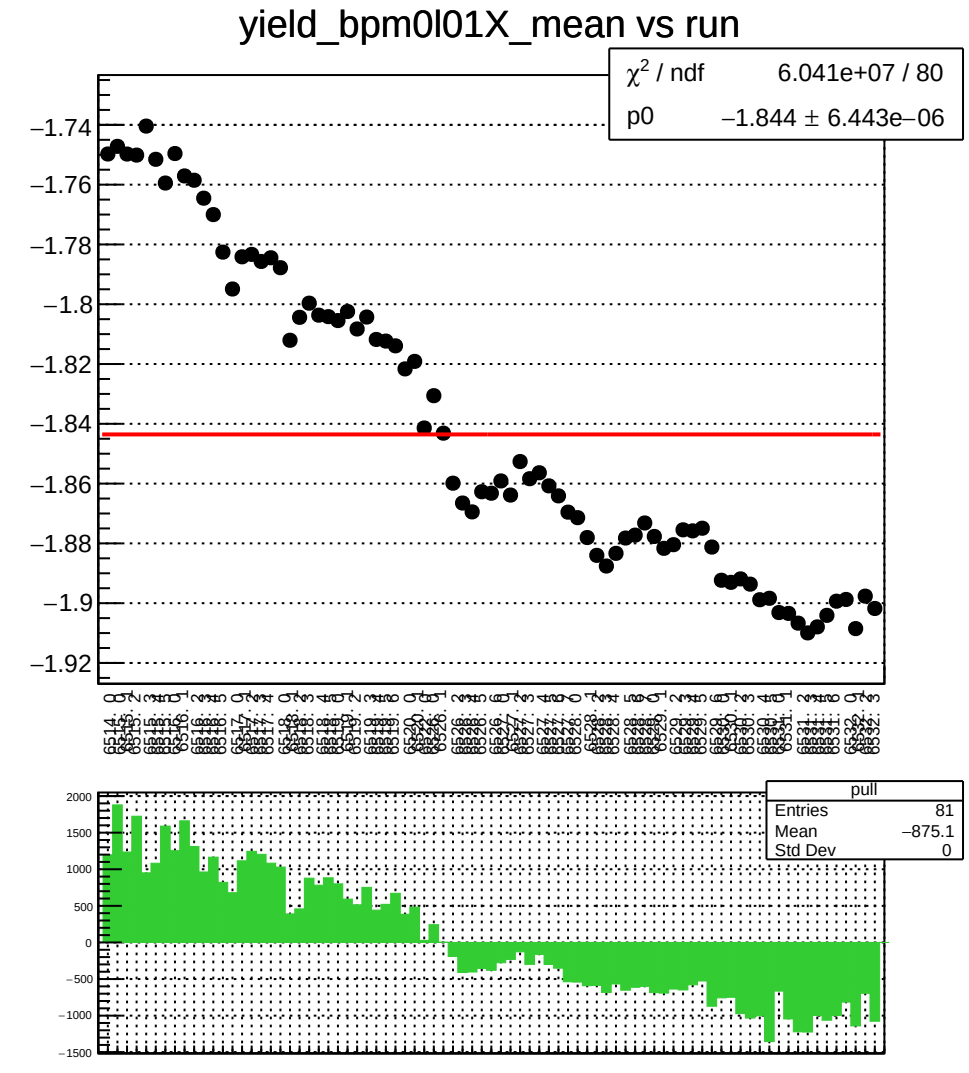

pull1D
Entries 81
Mean −4.015
Std Dev 0.008487
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

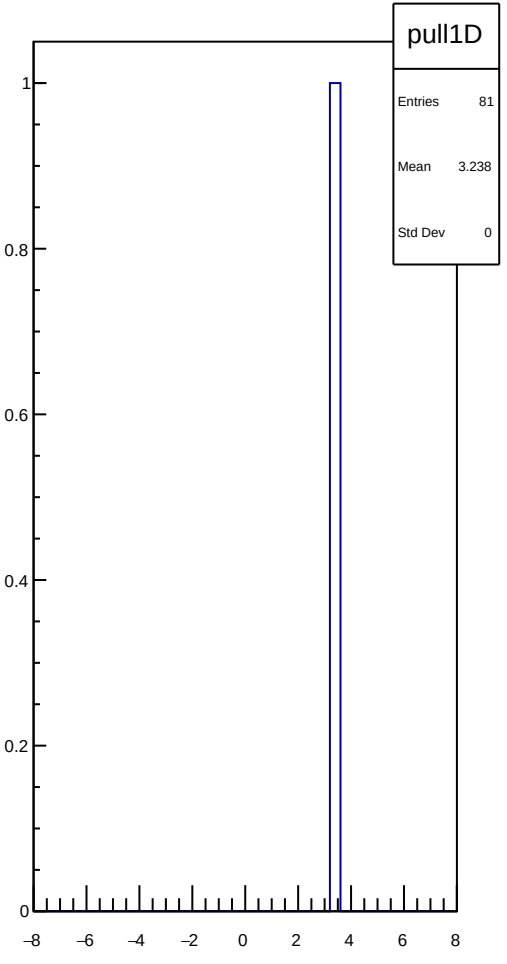

yield_bpm0i01aX_rms vs run
χ² / ndf 3.602e+04 / 80
p0 0.008731 ± 7.07e–06
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007

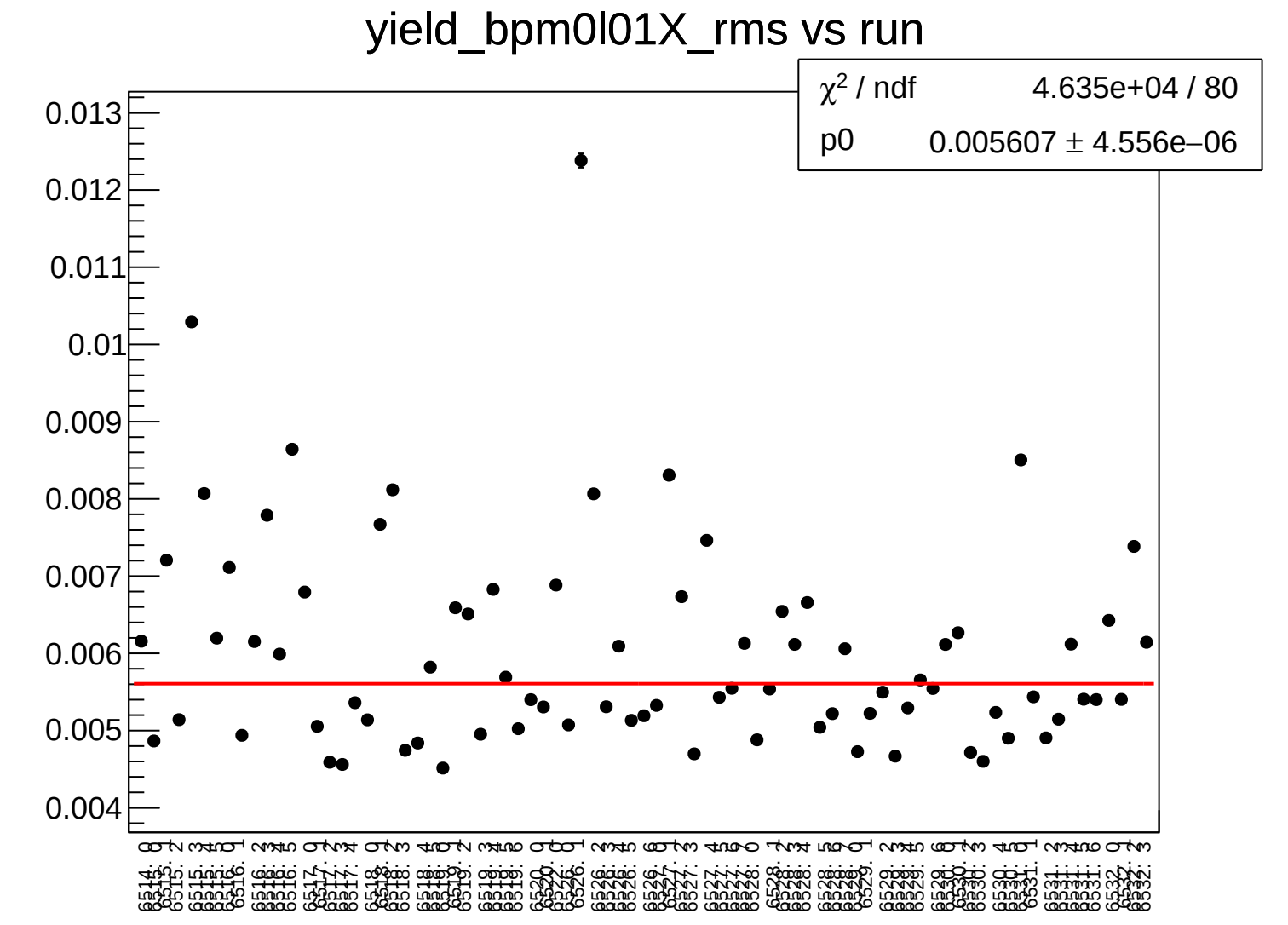

yield_bpm0i01aY_mean vs run
χ² / ndf 1.148e+08 / 80
p0 1.696 ± 4.984e−06
pull
Entries 81
Mean 1287
Std Dev 0

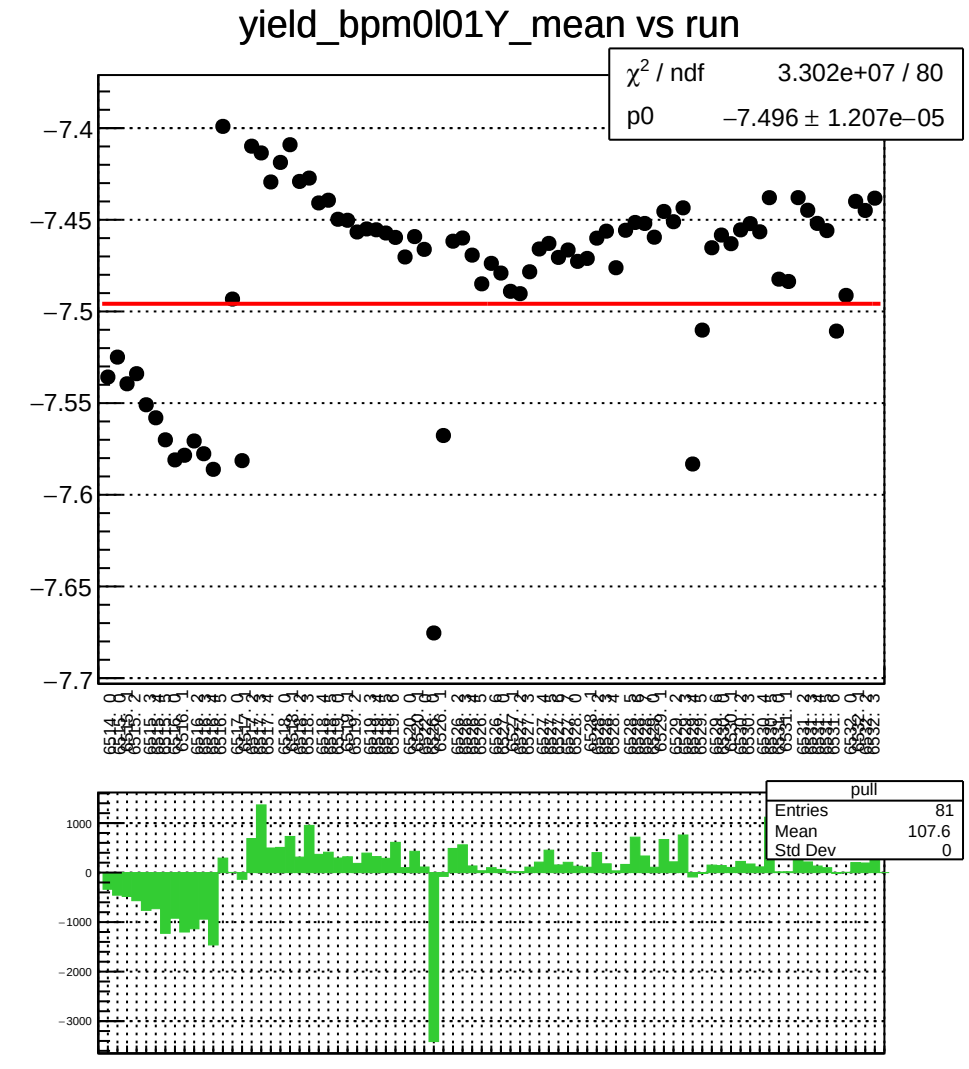

pull1D
Entries 81
Mean 6.032
Std Dev 0

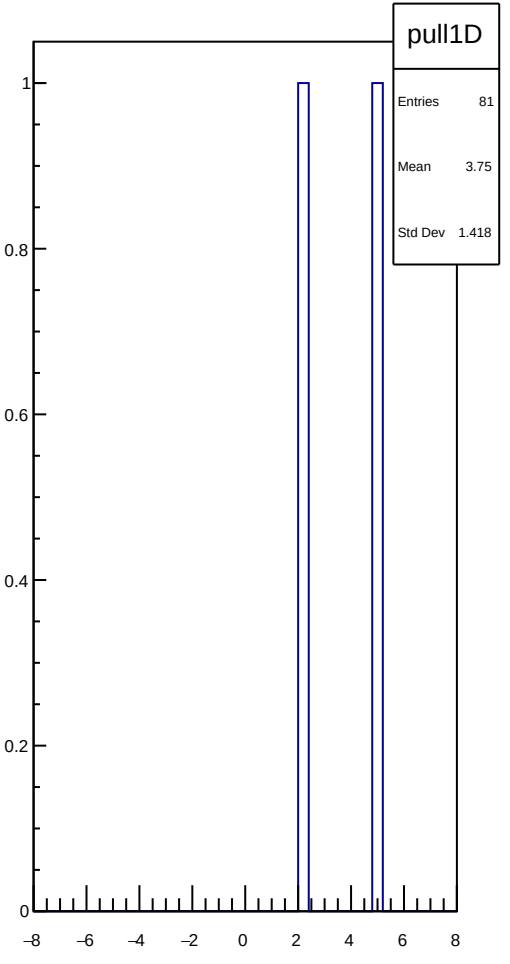

yield_bpm0i01aY_rms vs run
χ² / ndf 3.417e+04 / 80
p0 0.004354 ± 3.524e−06
0.014
0.012
0.01
0.008
0.006
0.004

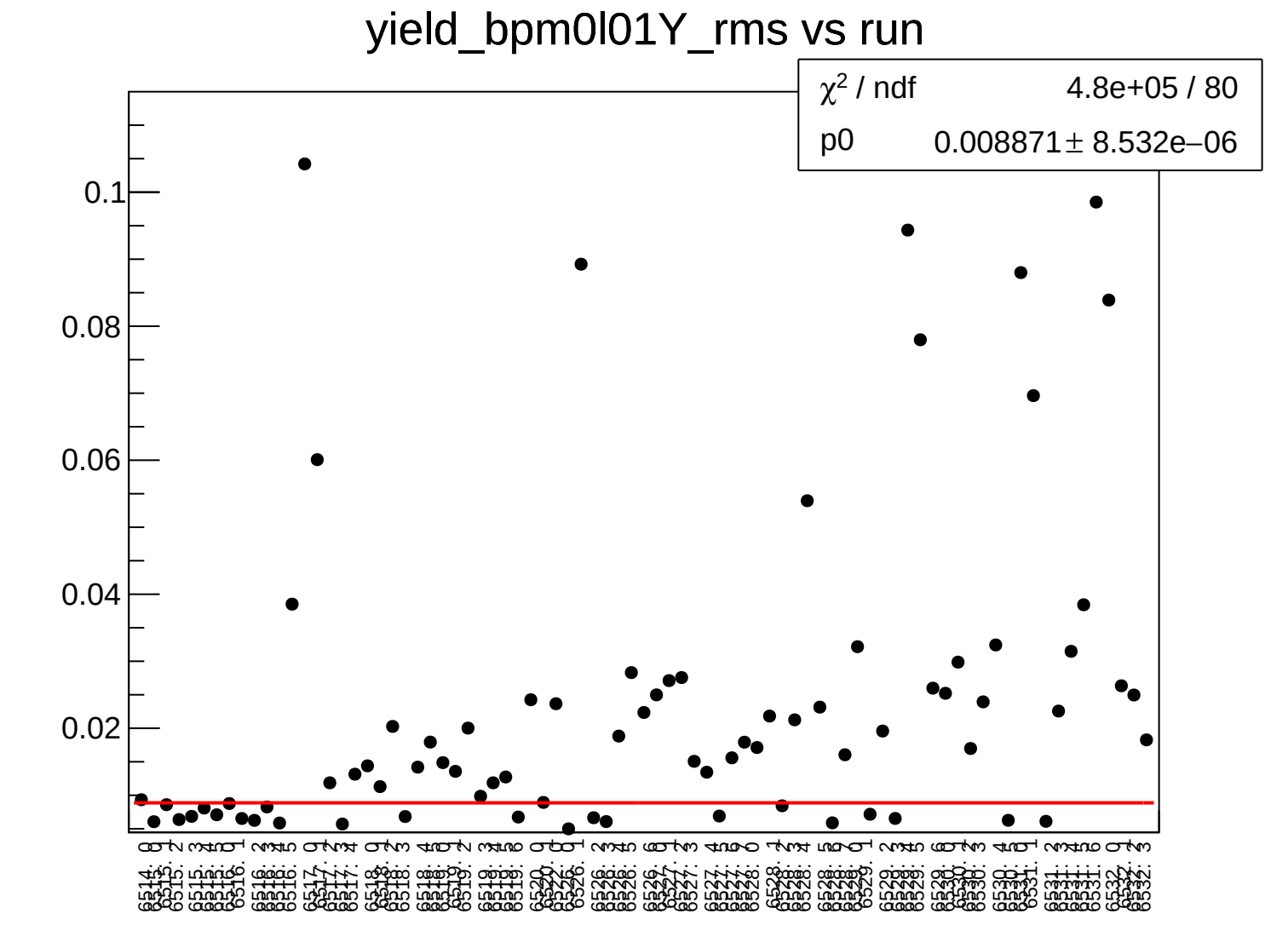

yield_bpm0l01X_mean vs run
χ² / ndf 6.041e+07 / 80
p0 −1.844 ± 6.443e−06
−1.74
−1.76
−1.78
−1.8
−1.82
−1.84
−1.86
−1.88
−1.9
−1.92
pull
Entries 81
Mean −875.1
Std Dev 0
2000
1500
1000
500
0
−500
−1000
−1500

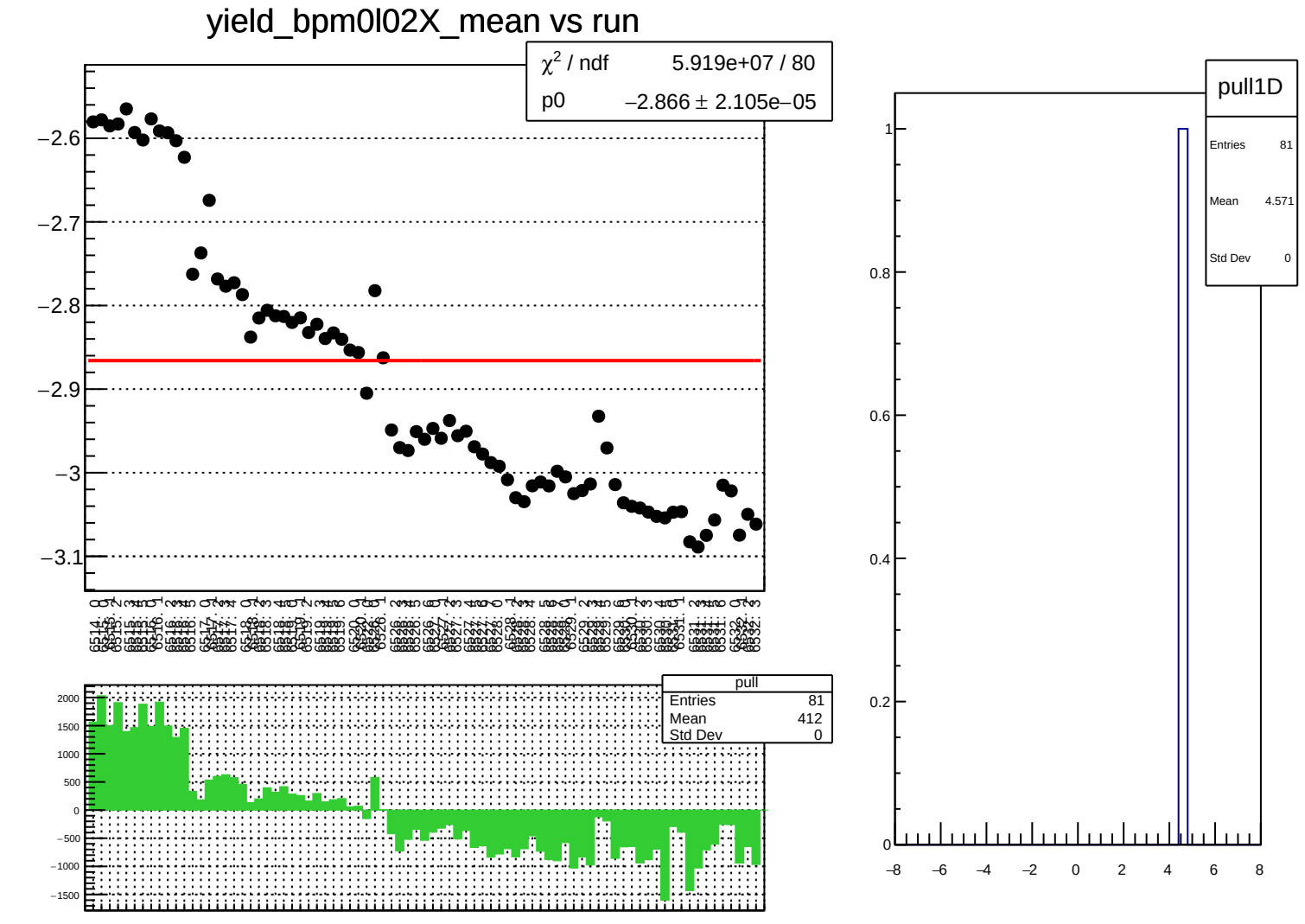

pull1D
Entries 81
Mean 3.238
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

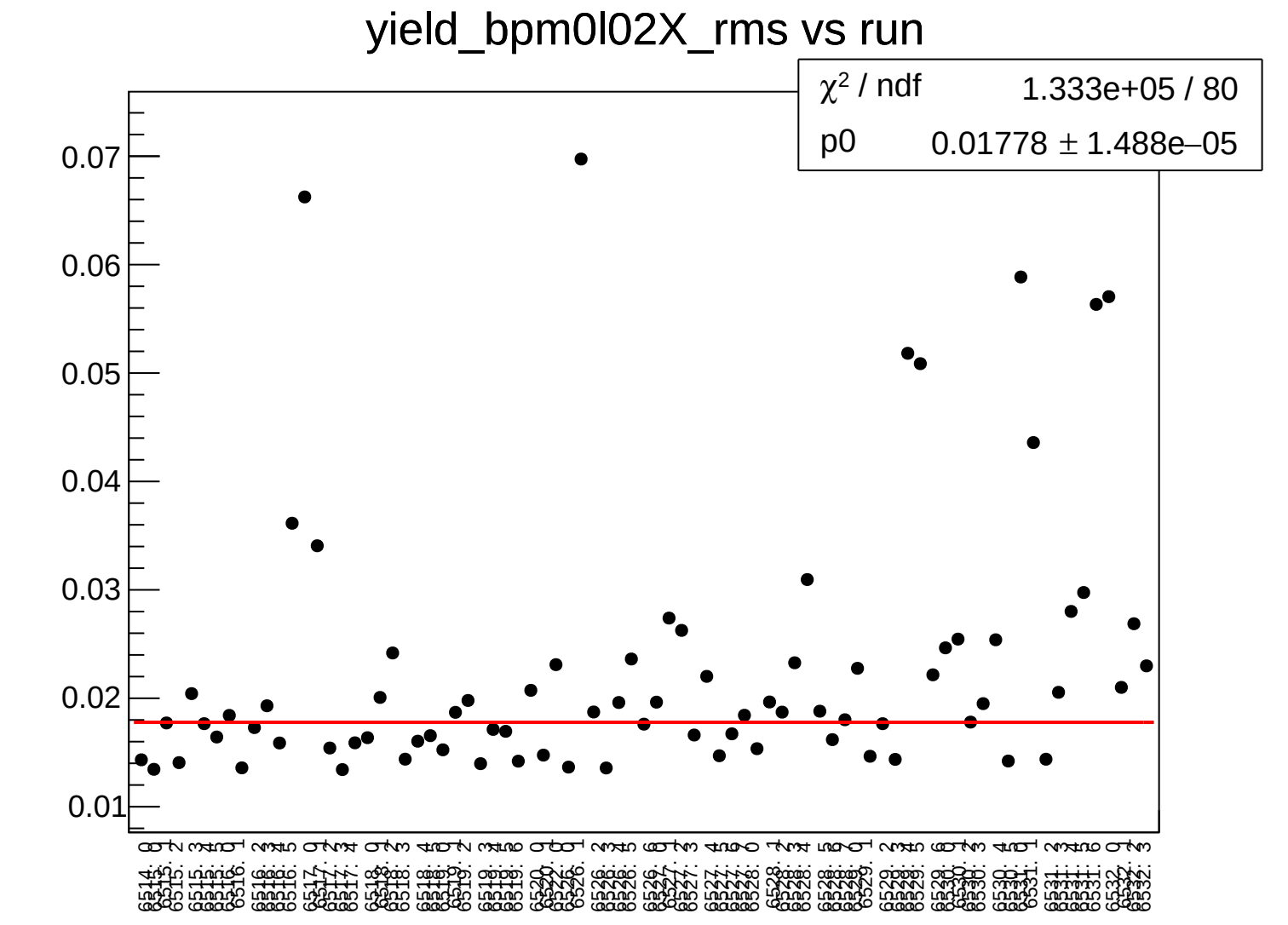

yield_bpm0l01X_rms vs run
χ² / ndf 4.635e+04 / 80
p0 0.005607 ± 4.556e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004

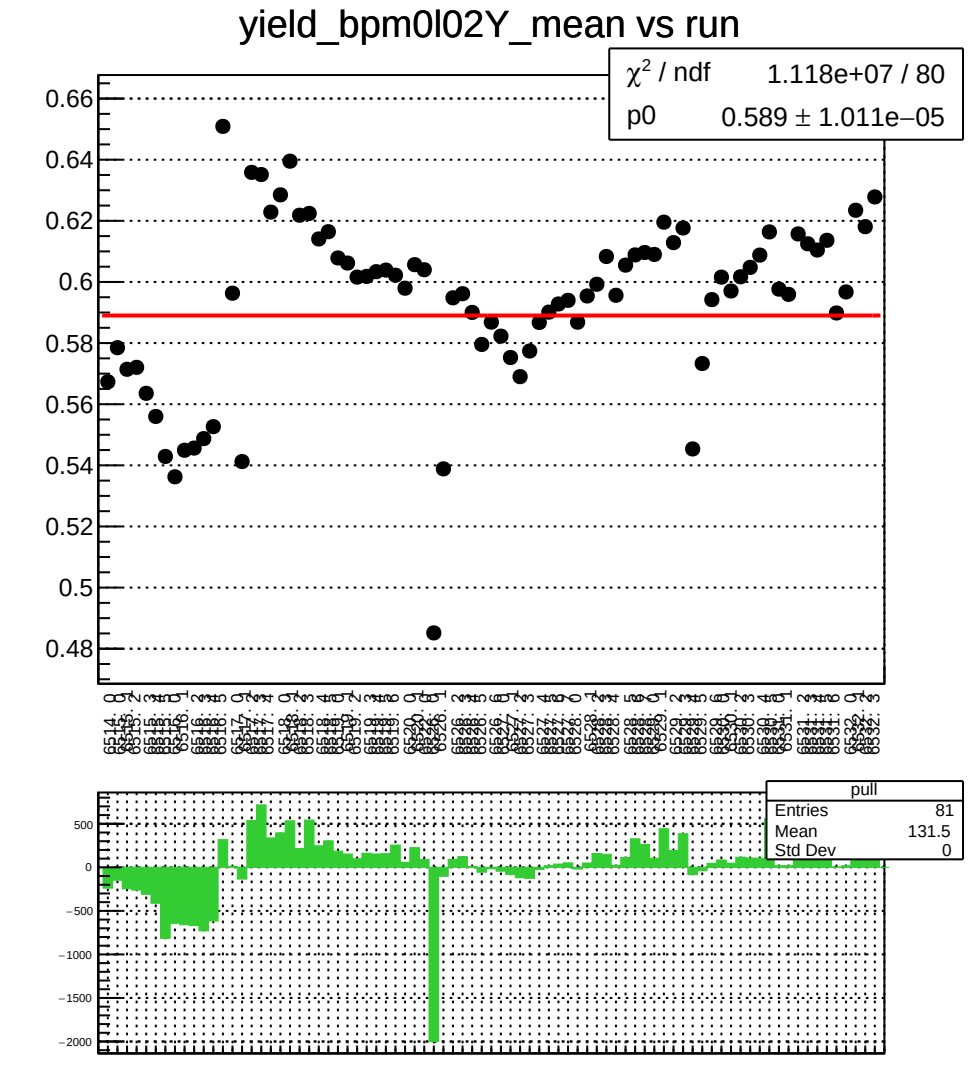

yield_bpm0l01Y_mean vs run
χ² / ndf 3.302e+07 / 80
p0 −7.496 ± 1.207e−05
−7.4
−7.45
−7.5
−7.55
−7.6
−7.65
−7.7
pull
Entries 81
Mean 107.6
Std Dev 0
1000
0
−1000
−2000
−3000

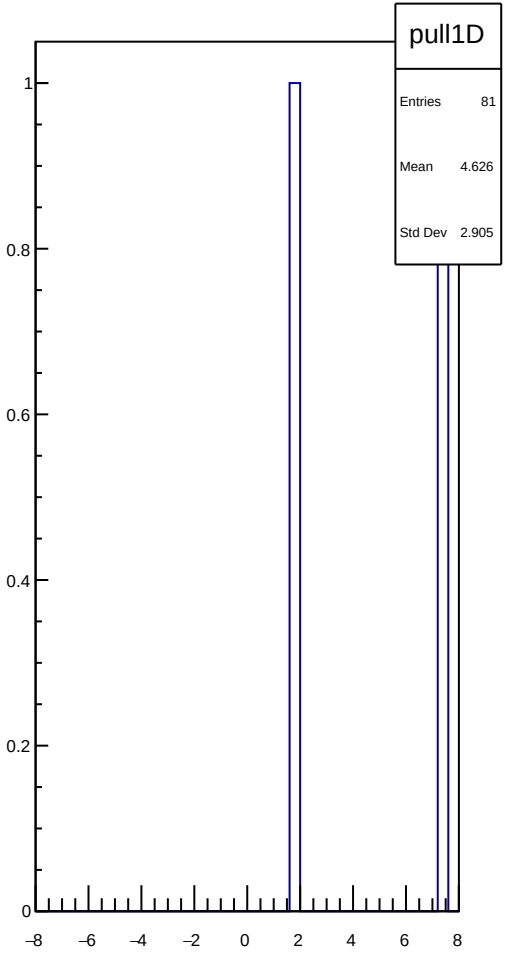

pull1D
Entries 81
Mean 3.75
Std Dev 1.418
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

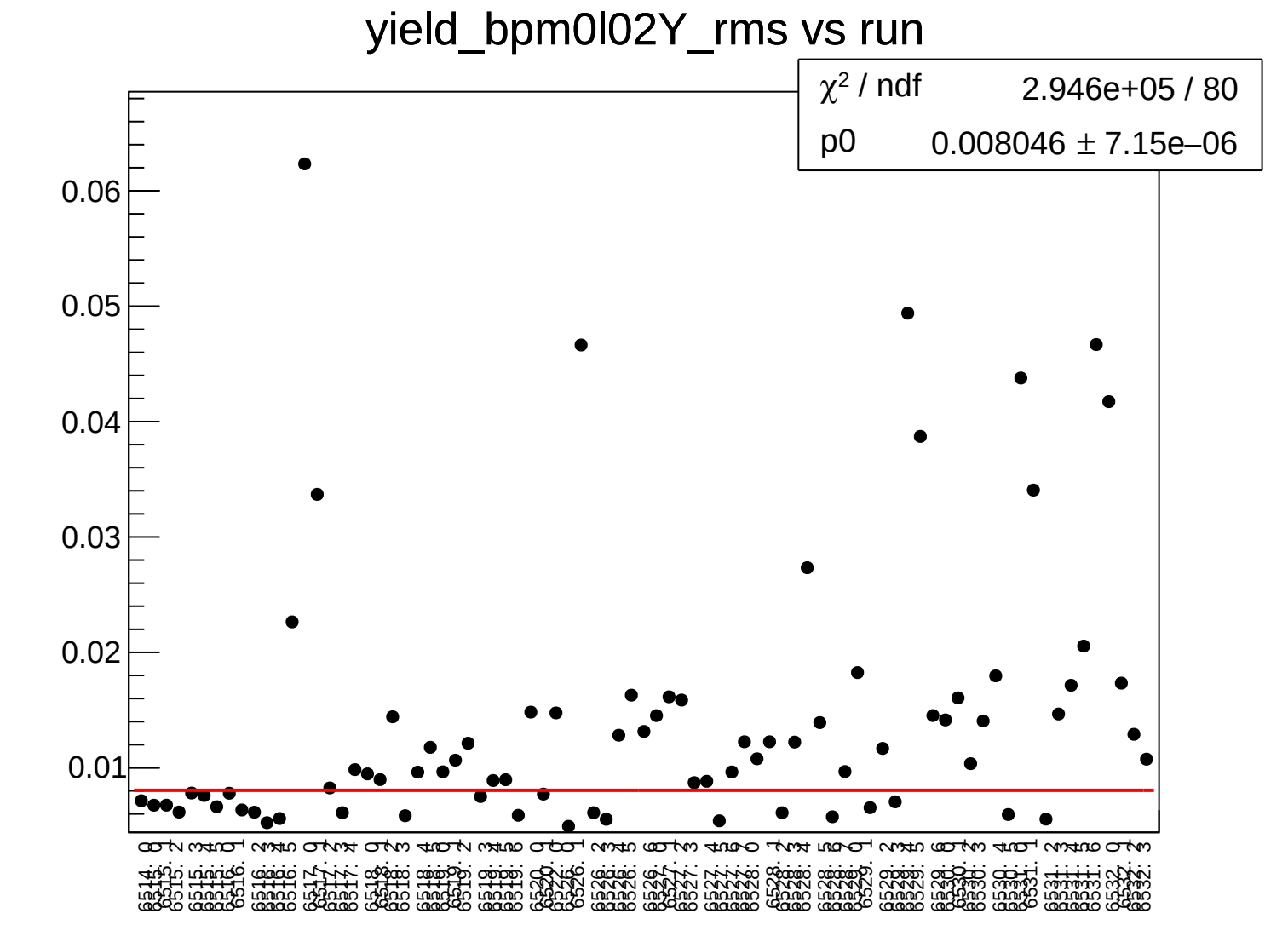

yield_bpm0l01Y_rms vs run
χ² / ndf 4.8e+05 / 80
p0 0.008871 ± 8.532e−06
0.1
0.08
0.06
0.04
0.02

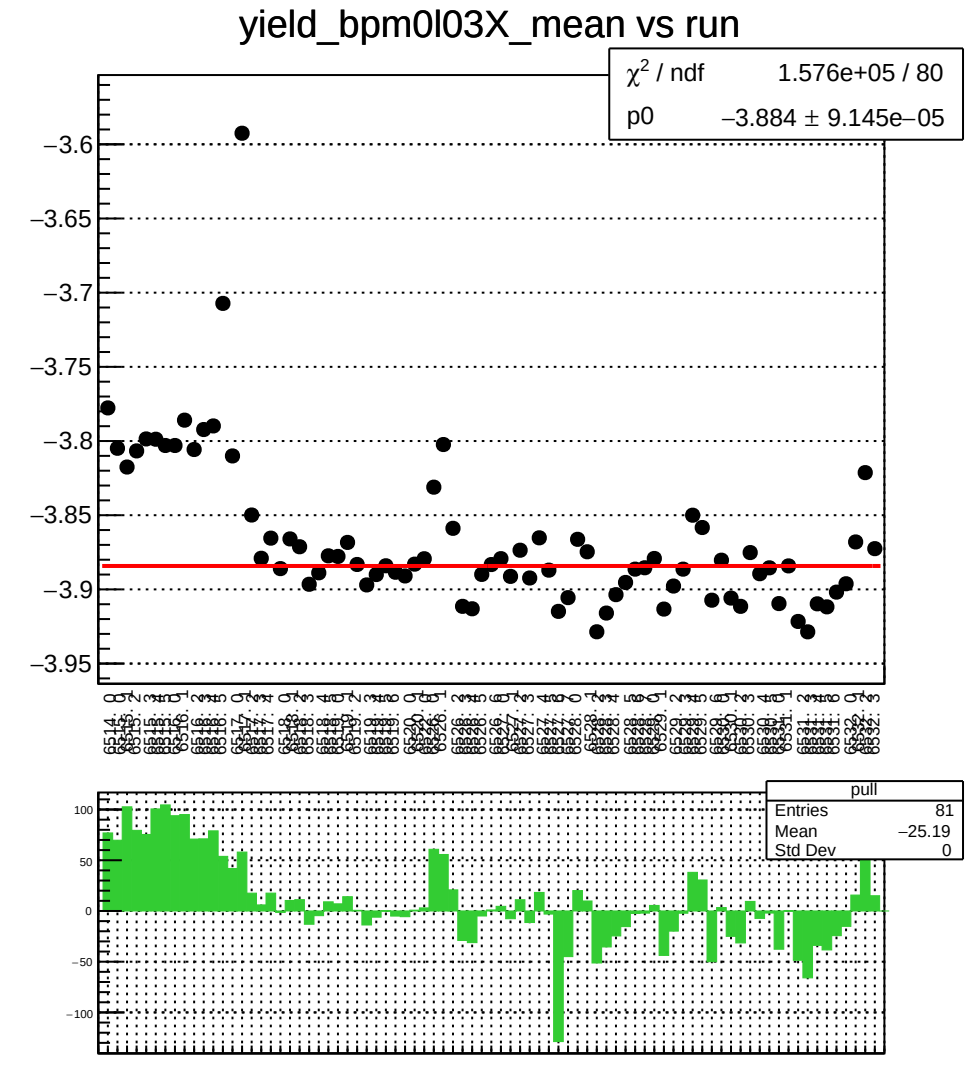

yield_bpm0l02X_mean vs run
χ² / ndf 5.919e+07 / 80
p0 −2.866 ± 2.105e−05
−2.6
−2.7
−2.8
−2.9
−3
−3.1
pull
Entries 81
Mean 412
Std Dev 0
2000
1500
1000
500
0
−500
−1000
−1500
pull1D
Entries 81
Mean 4.571
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

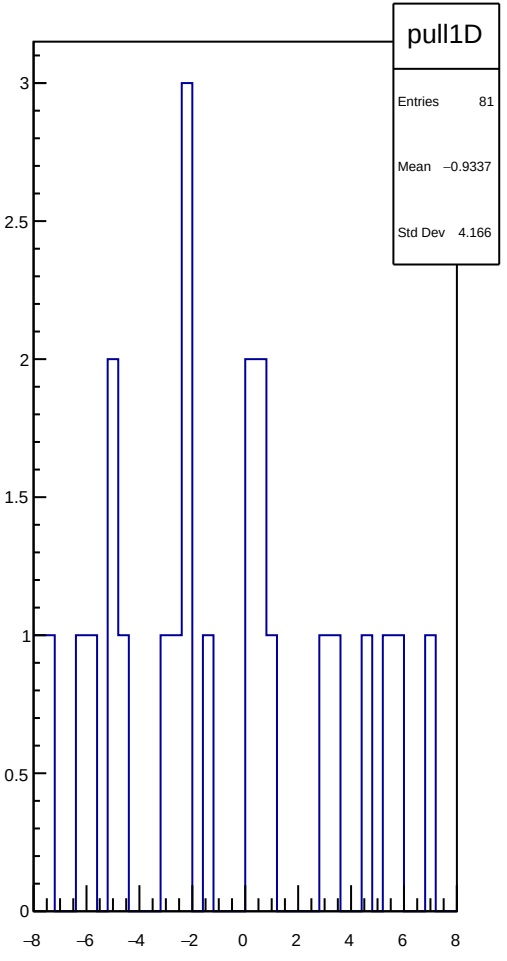

yield_bpm0l02X_rms vs run
χ² / ndf 1.333e+05 / 80
p0 0.01778 ± 1.488e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

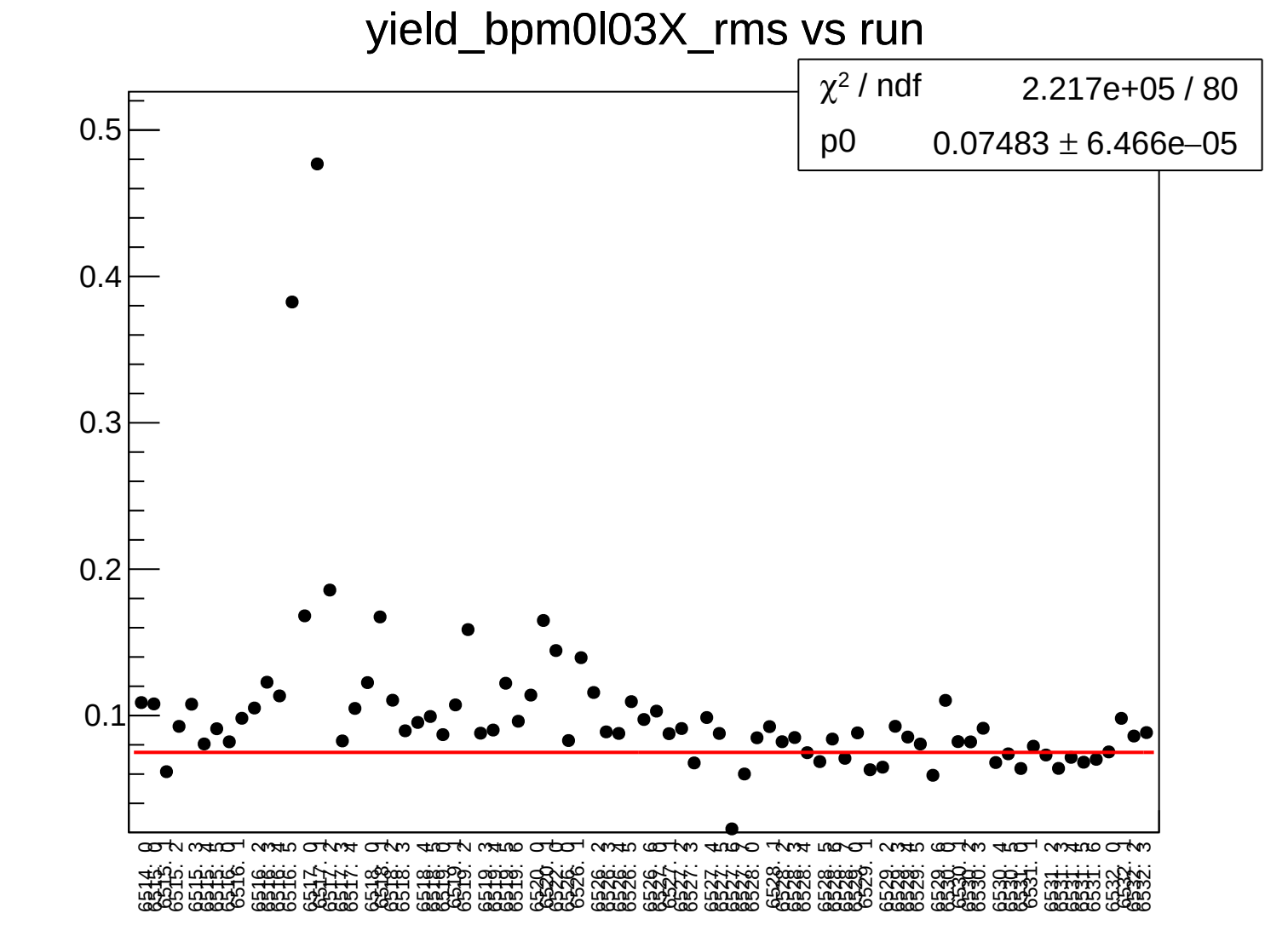

yield_bpm0l02Y_mean vs run
χ² / ndf 1.118e+07 / 80
p0 0.589 ± 1.011e−05
pull
Entries 81
Mean 131.5
Std Dev 0

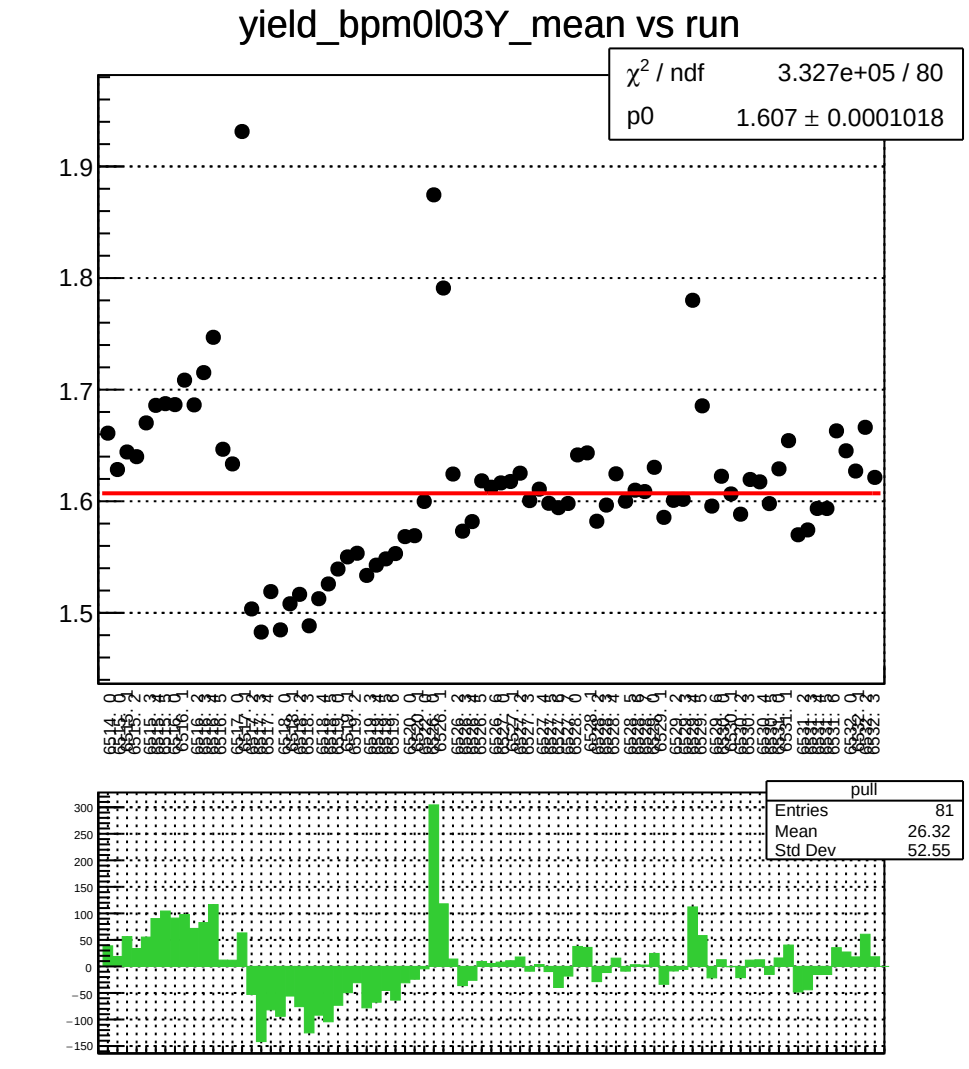

pull1D
Entries 81
Mean 4.626
Std Dev 2.905

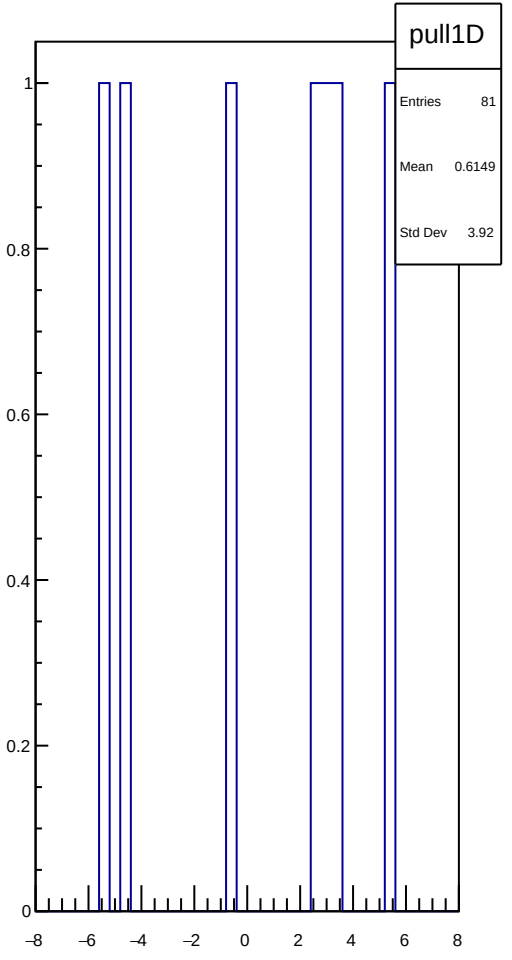

yield_bpm0l02Y_rms vs run
χ² / ndf 2.946e+05 / 80
p0 0.008046 ± 7.15e−06
0.06
0.05
0.04
0.03
0.02
0.01

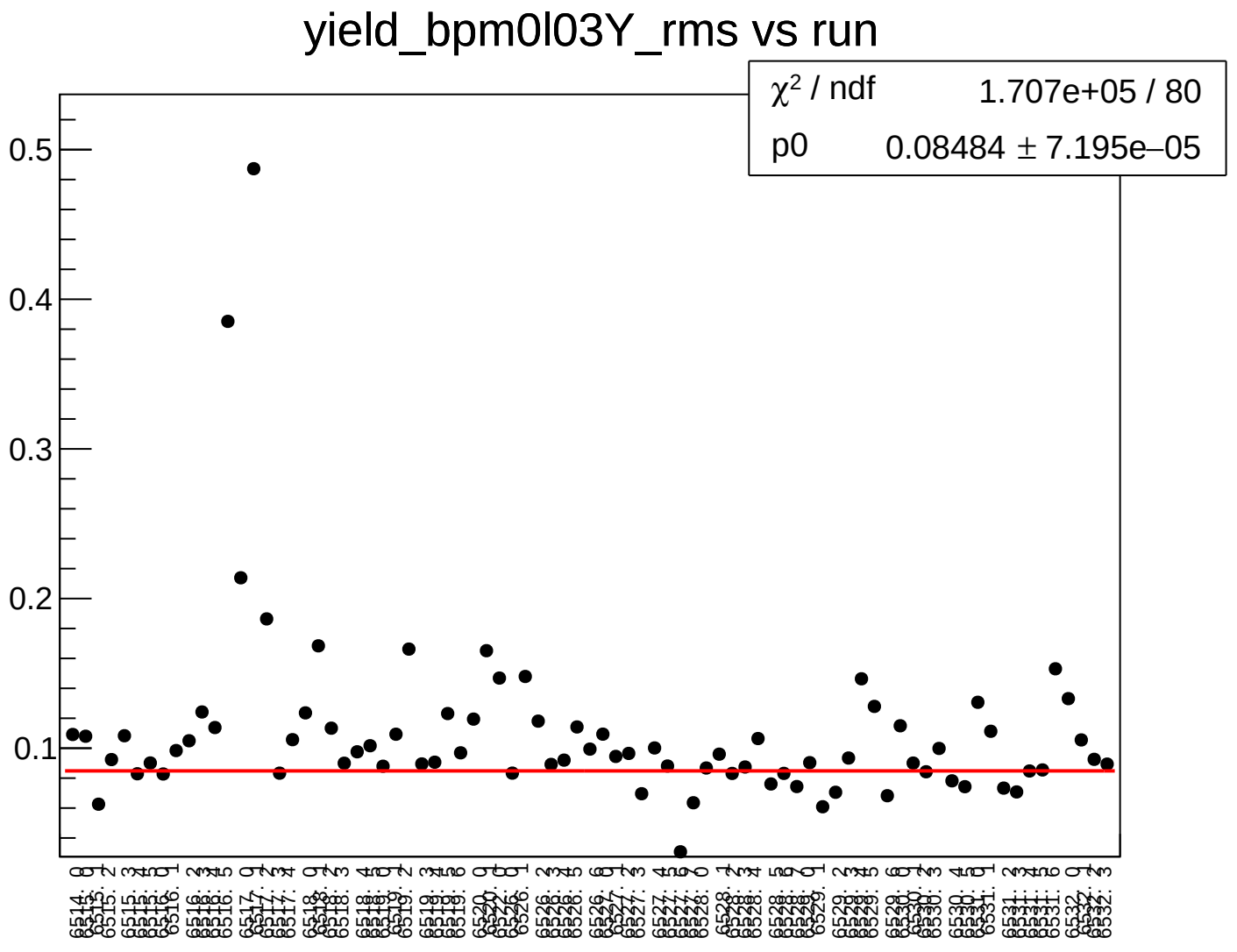

yield_bpm0l03X_mean vs run
χ² / ndf 1.576e+05 / 80
p0 −3.884 ± 9.145e−05
−3.6
−3.65
−3.7
−3.75
−3.8
−3.85
−3.9
−3.95
pull
Entries 81
Mean −25.19
Std Dev 0
100
50
0
−50
−100

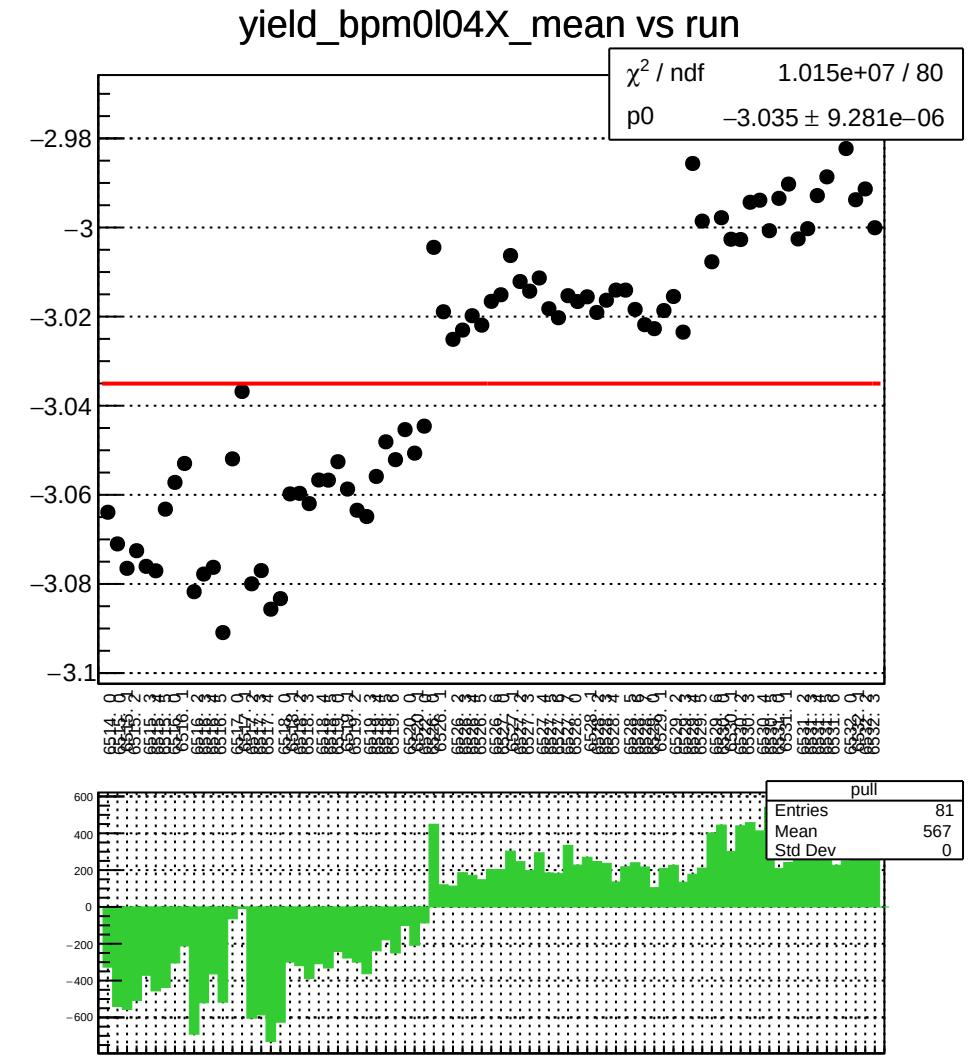

pull1D
Entries 81
Mean −0.9337
Std Dev 4.166
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

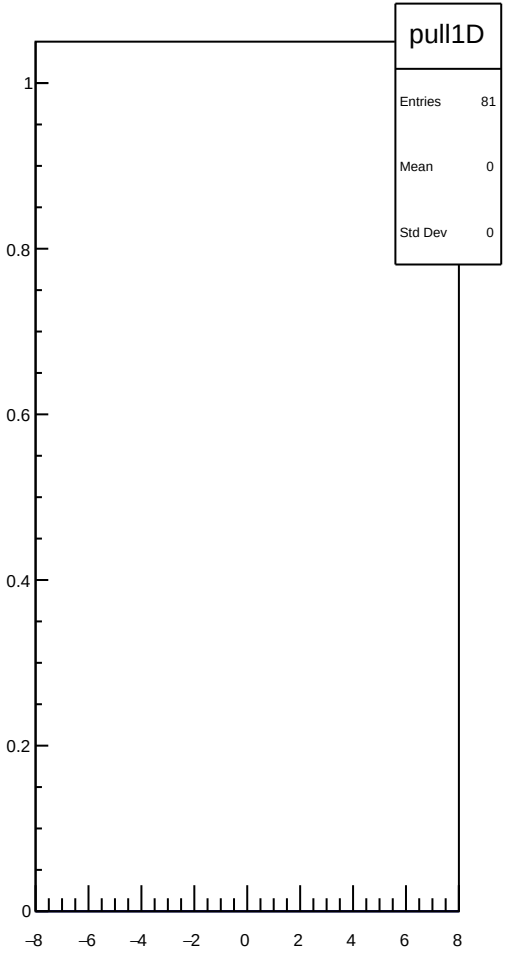

yield_bpm0l03X_rms vs run
χ² / ndf 2.217e+05 / 80
p0 0.07483 ± 6.466e−05
0.5
0.4
0.3
0.2
0.1

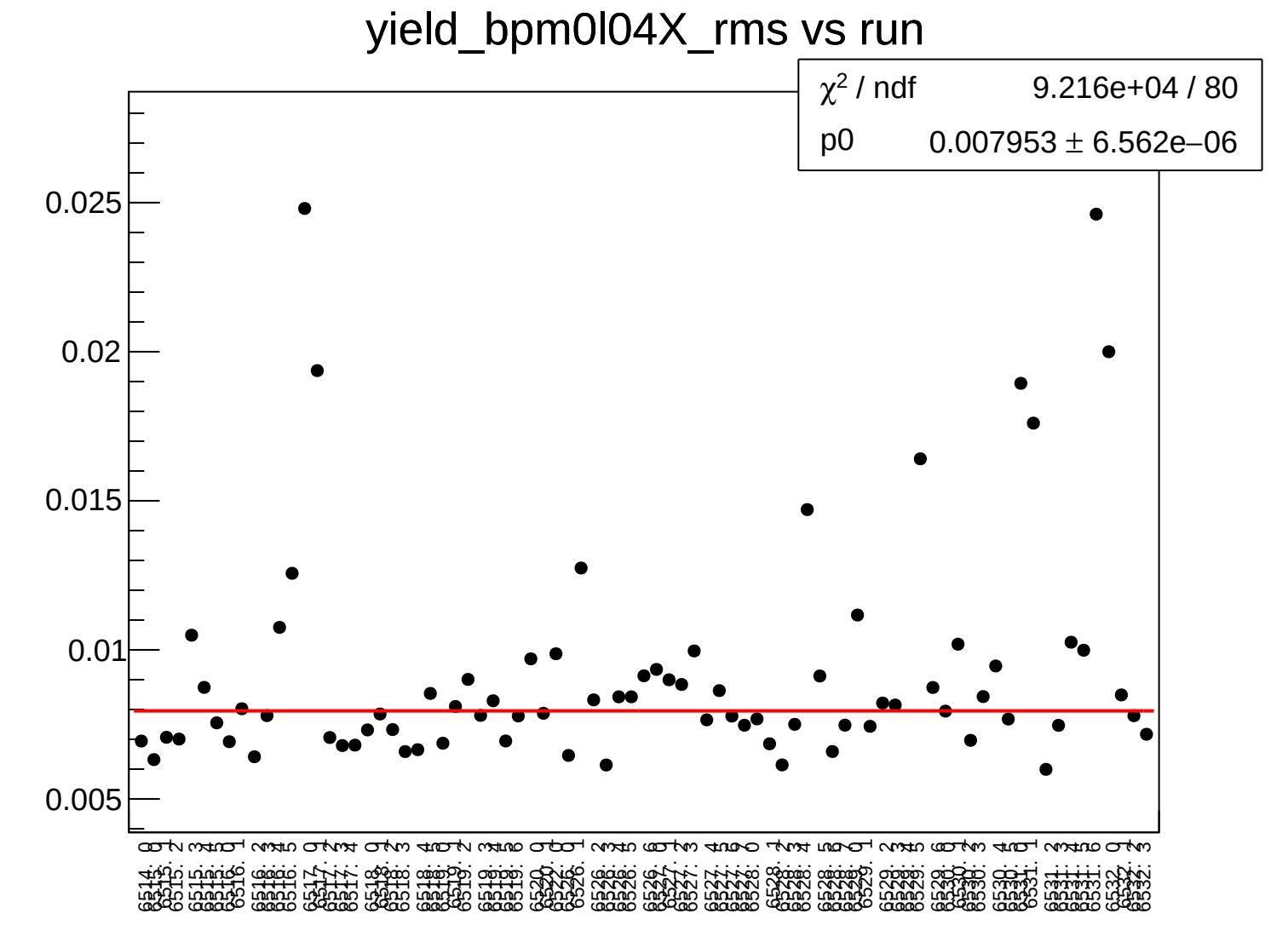

yield_bpm0l03Y_mean vs run
χ² / ndf 3.327e+05 / 80
p0 1.607 ± 0.0001018
1.9
1.8
1.7
1.6
1.5
pull
Entries 81
Mean 26.32
Std Dev 52.55
300
250
200
150
100
50
0
−50
−100
−150

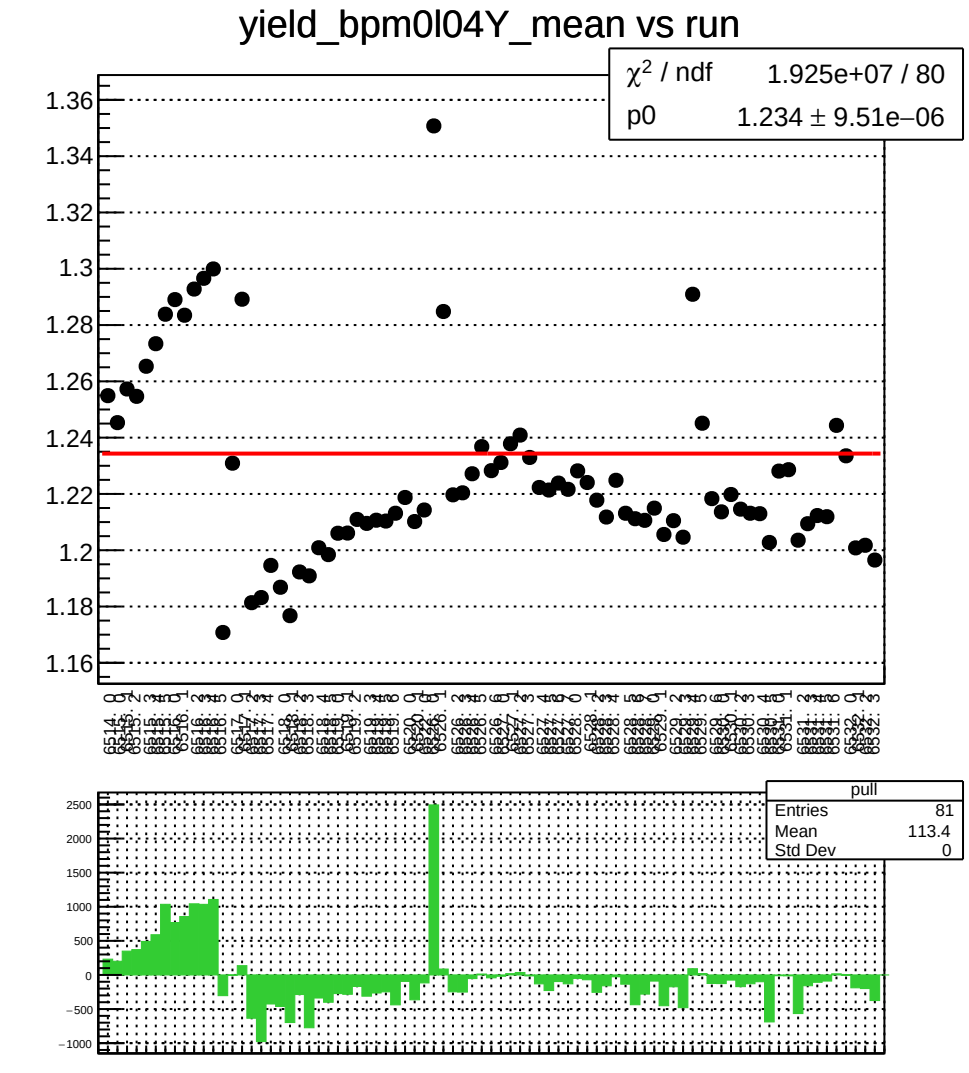

pull1D
Entries 81
Mean 0.6149
Std Dev 3.92
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

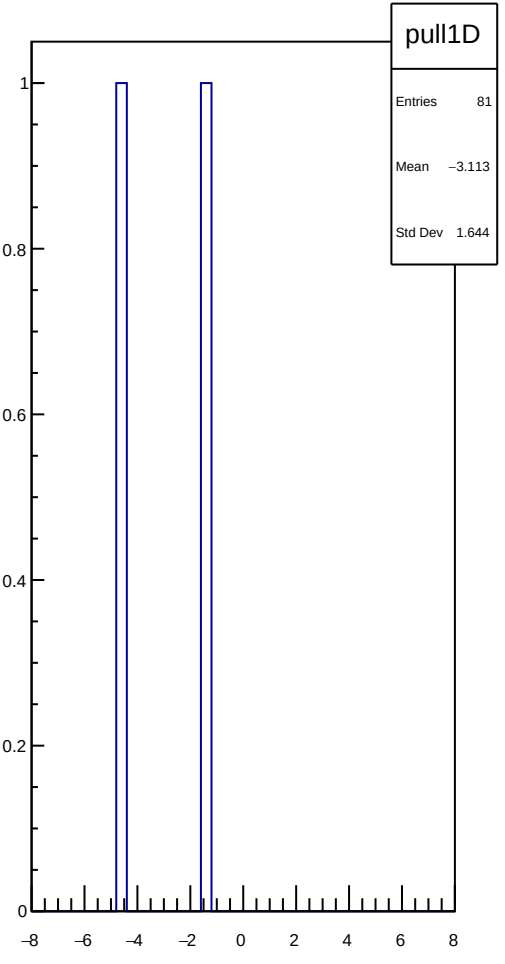

yield_bpm0l03Y_rms vs run
χ² / ndf 1.707e+05 / 80
p0 0.08484 ± 7.195e−05
0.5
0.4
0.3
0.2
0.1

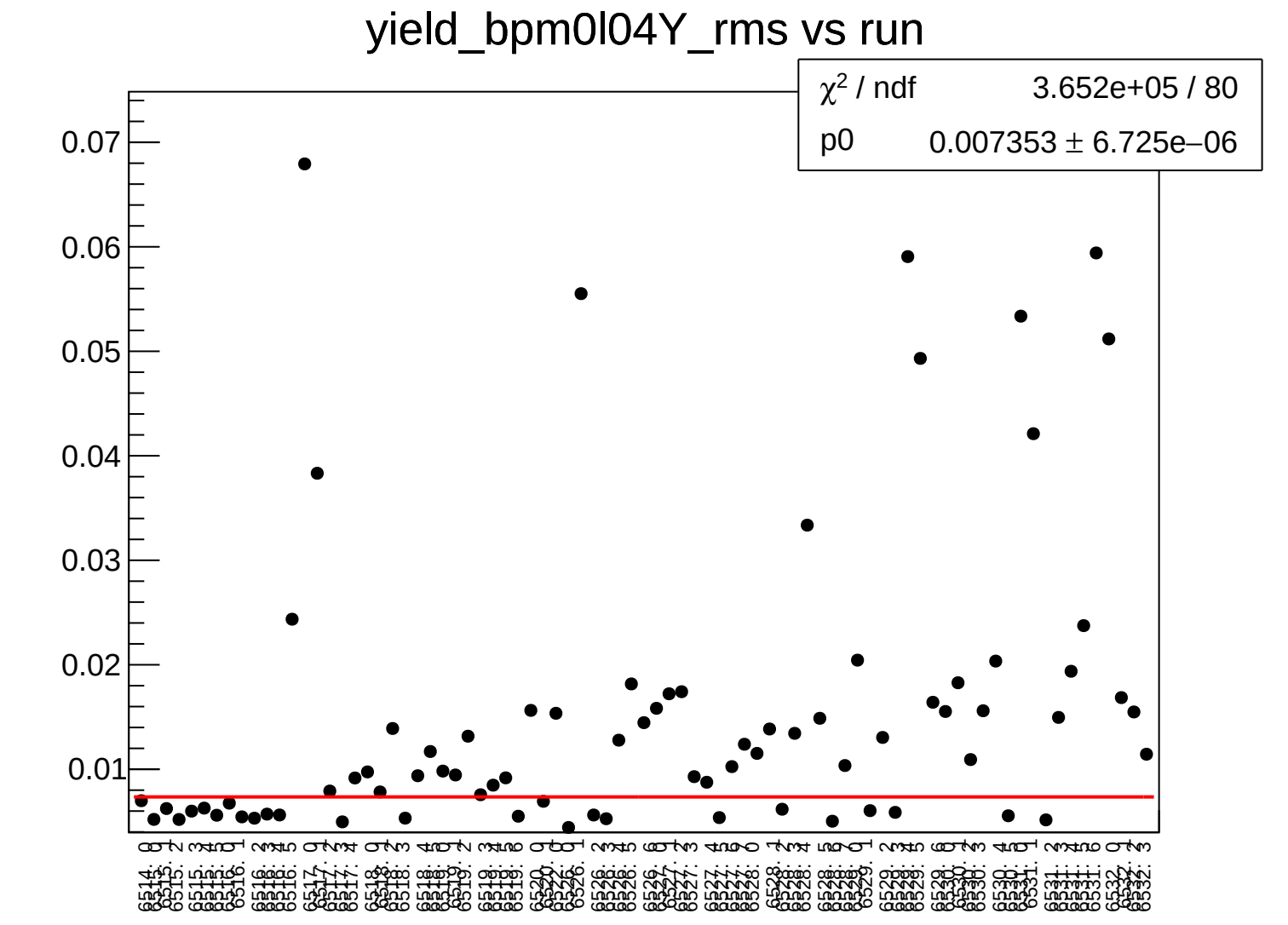

yield_bpm0l04X_mean vs run
χ² / ndf 1.015e+07 / 80
p0 −3.035 ± 9.281e−06
−2.98
−3
−3.02
−3.04
−3.06
−3.08
−3.1
pull
Entries 81
Mean 567
Std Dev 0
600
400
200
0
−200
−400
−600

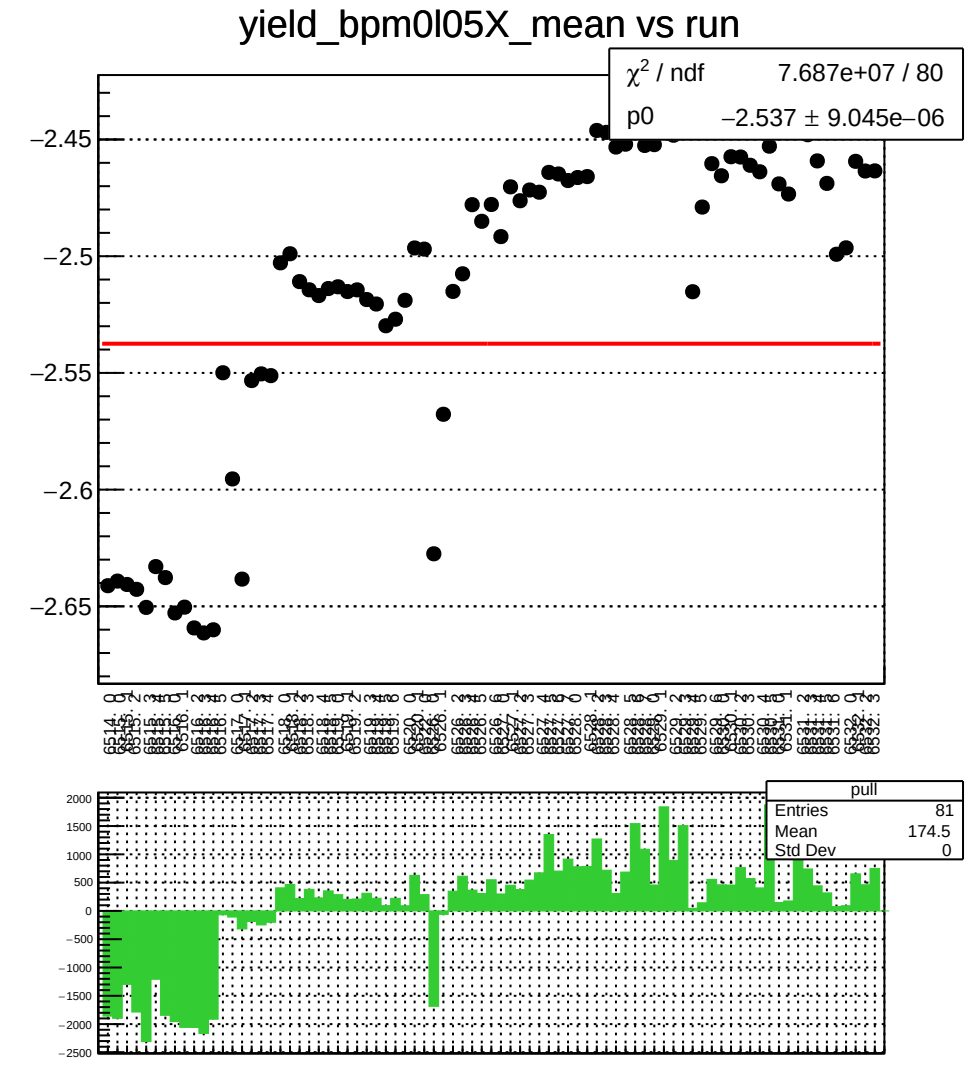

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

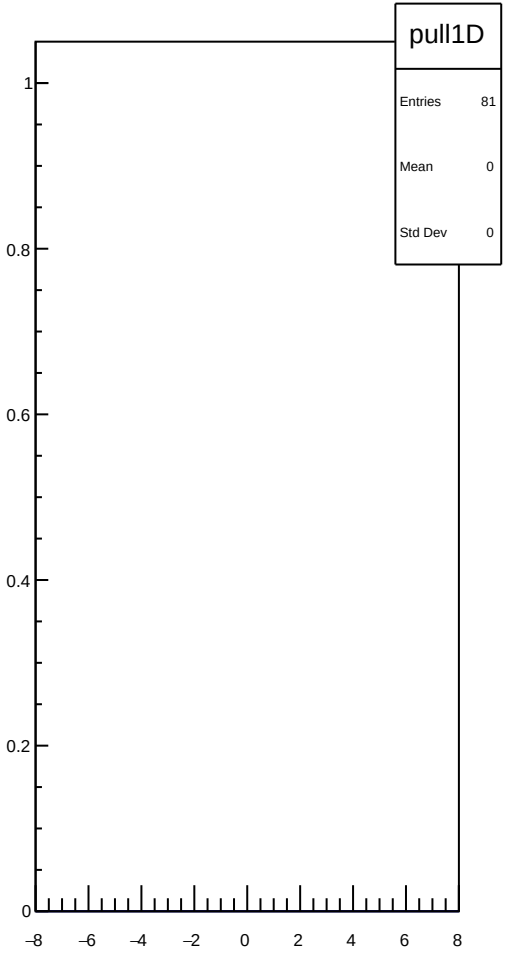

yield_bpm0l04X_rms vs run
χ² / ndf 9.216e+04 / 80
p0 0.007953 ± 6.562e−06
0.025
0.02
0.015
0.01
0.005

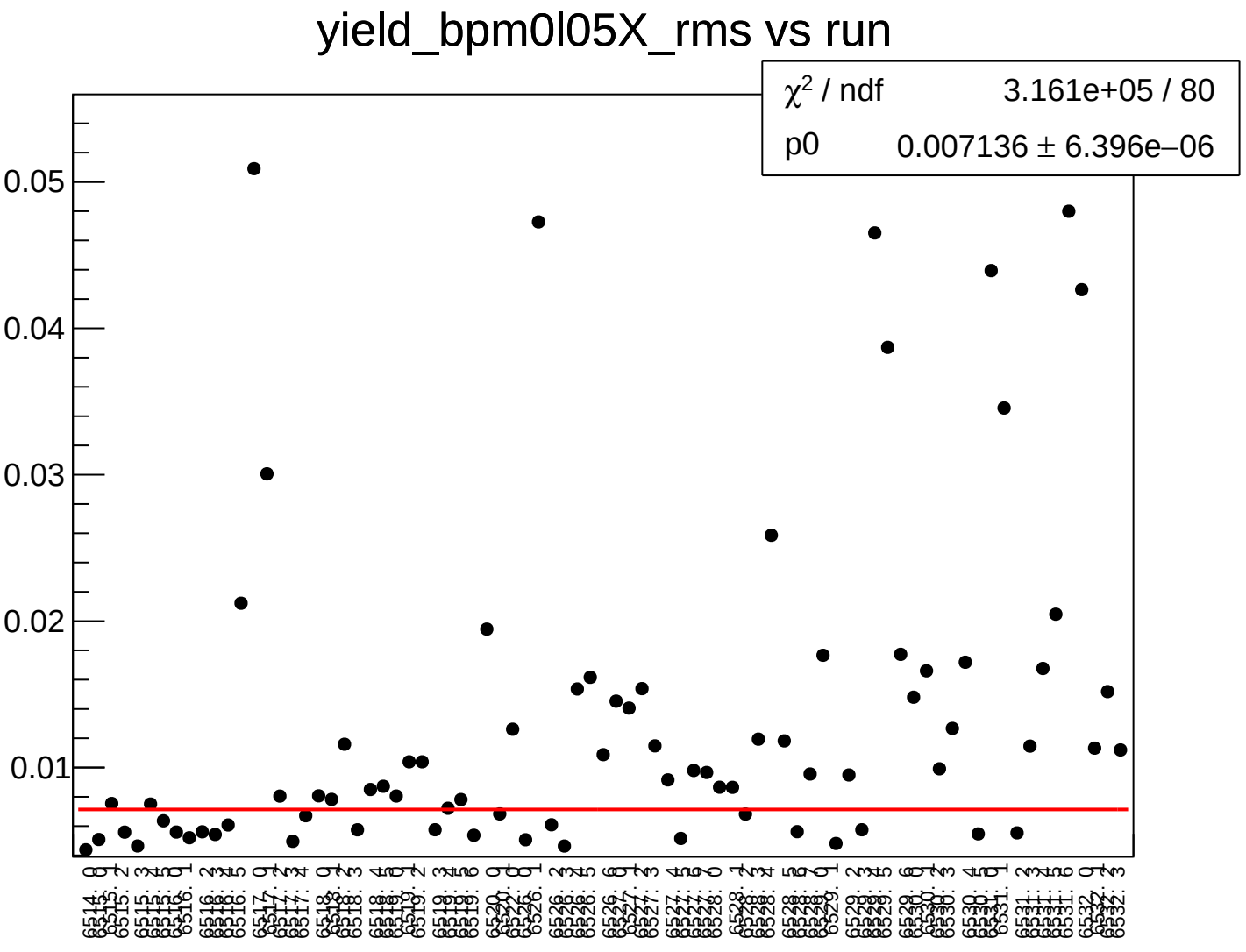

yield_bpm0l04Y_mean vs run
χ² / ndf 1.925e+07 / 80
p0 1.234 ± 9.51e−06
pull
Entries 81
Mean 113.4
Std Dev 0

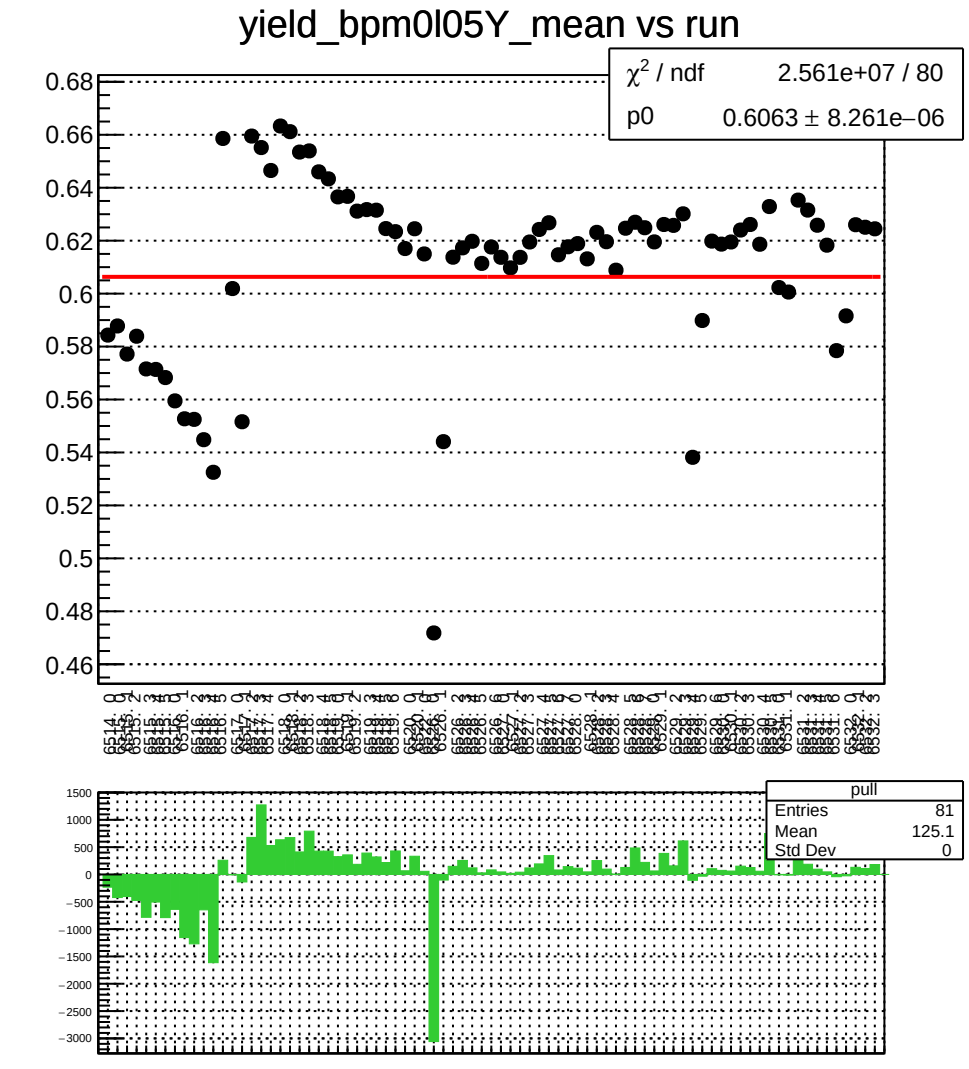

pull1D
Entries 81
Mean −3.113
Std Dev 1.644

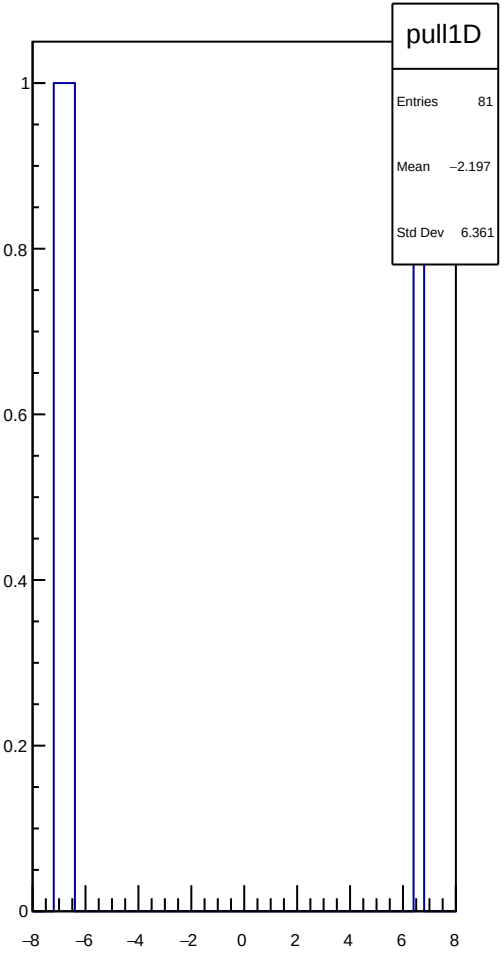

yield_bpm0l04Y_rms vs run
χ² / ndf 3.652e+05 / 80
p0 0.007353 ± 6.725e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

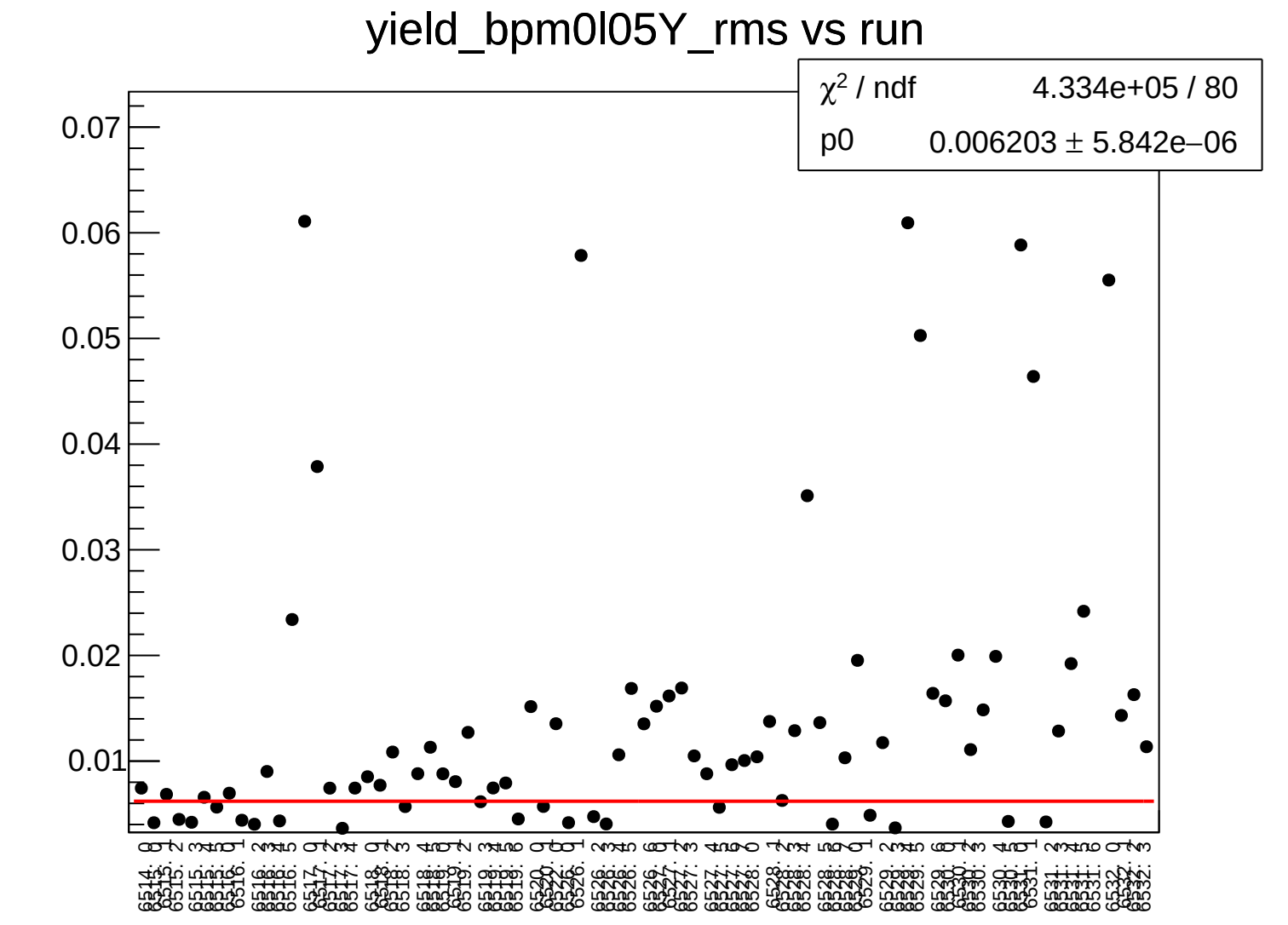

yield_bpm0l05X_mean vs run
χ² / ndf 7.687e+07 / 80
p0 −2.537 ± 9.045e−06
−2.45
−2.5
−2.55
−2.6
−2.65
pull
Entries 81
Mean 174.5
Std Dev 0
2000
1500
1000
500
0
−500
−1000
−1500
−2000
−2500

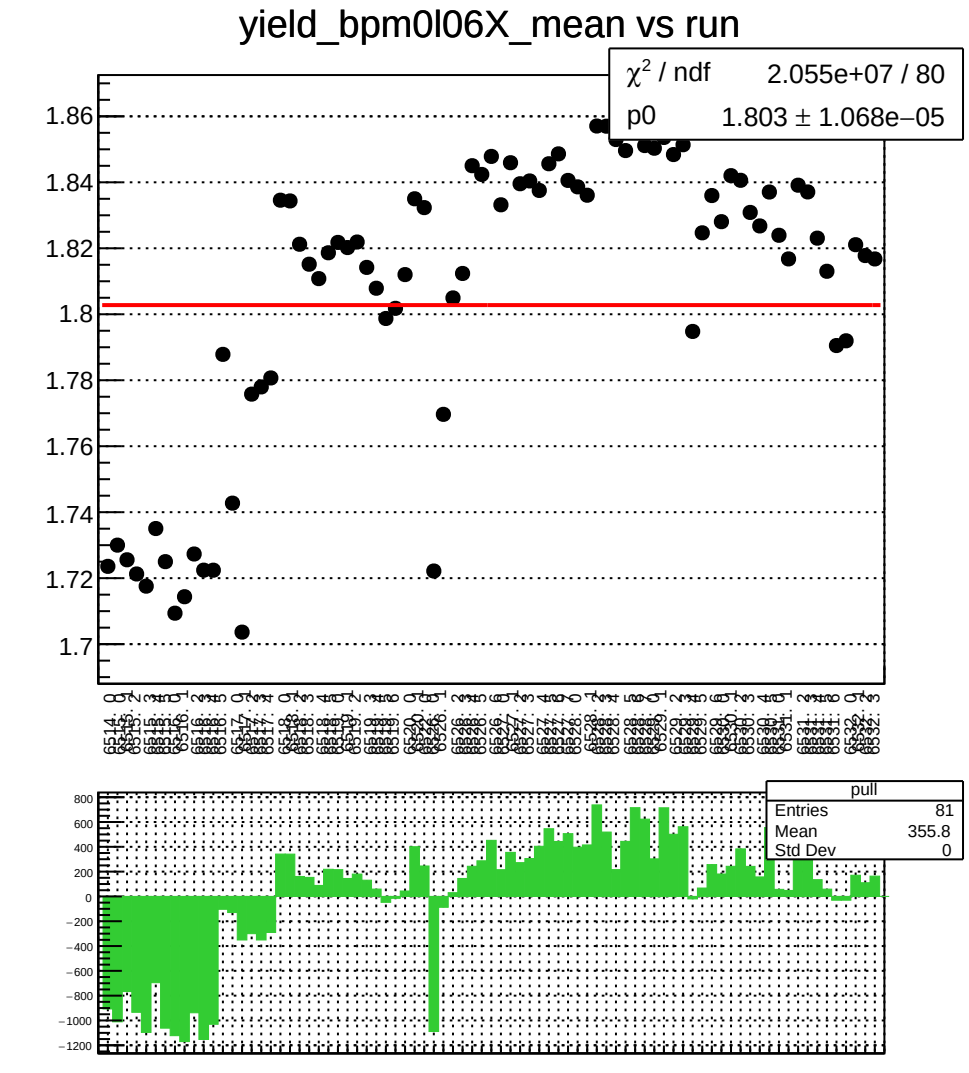

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

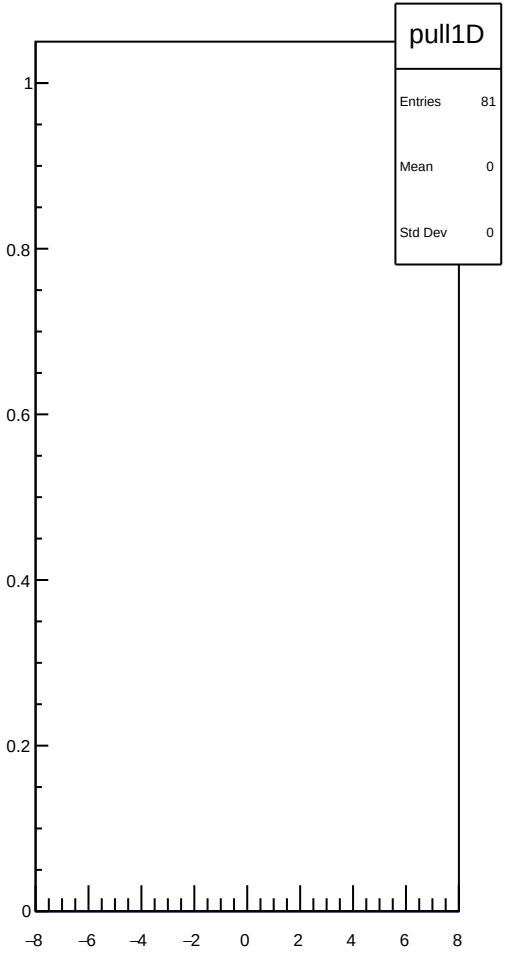

yield_bpm0l05X_rms vs run
χ² / ndf 3.161e+05 / 80
p0 0.007136 ± 6.396e−06
0.05
0.04
0.03
0.02
0.01

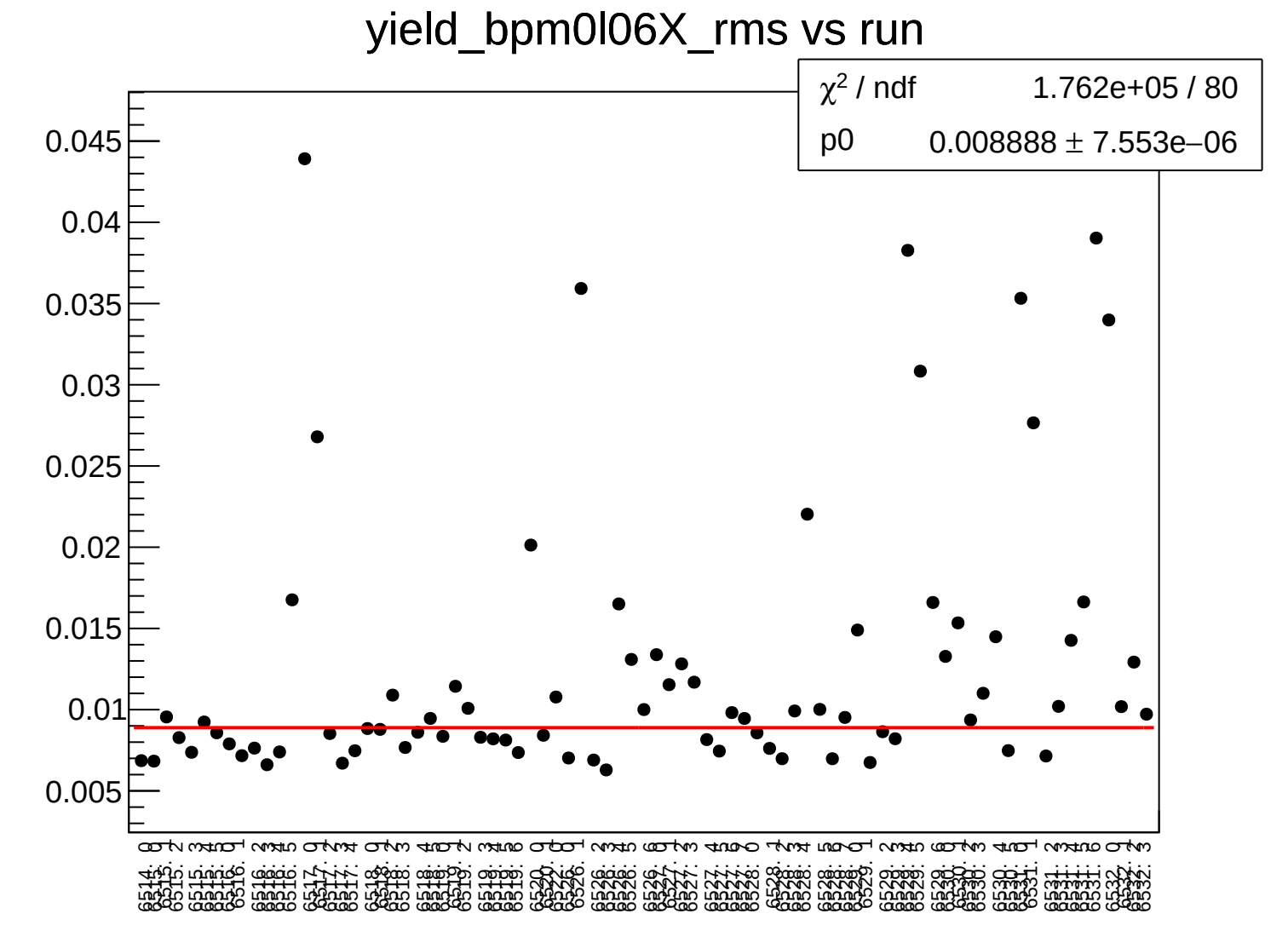

yield_bpm0l05Y_mean vs run
χ² / ndf 2.561e+07 / 80
p0 0.6063 ± 8.261e−06
pull
Entries 81
Mean 125.1
Std Dev 0

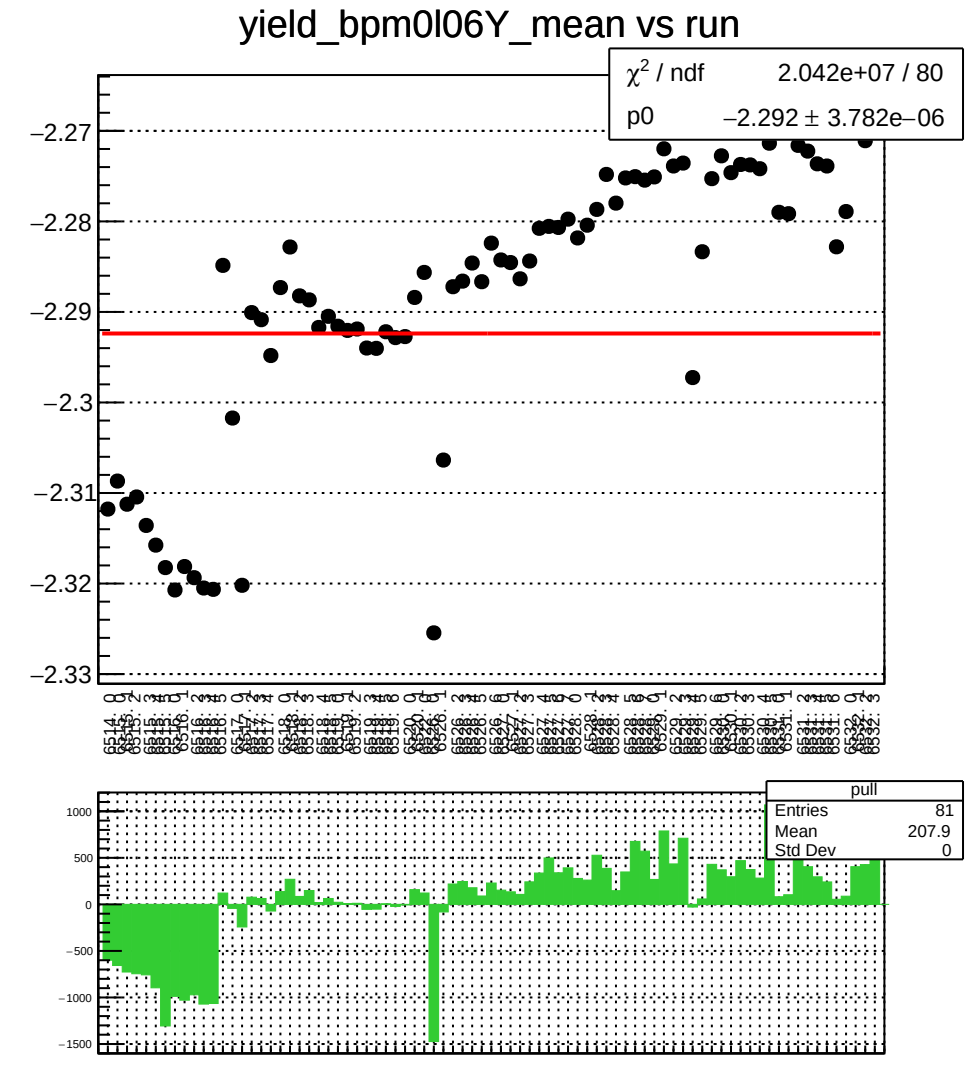

pull1D
Entries 81
Mean −2.197
Std Dev 6.361

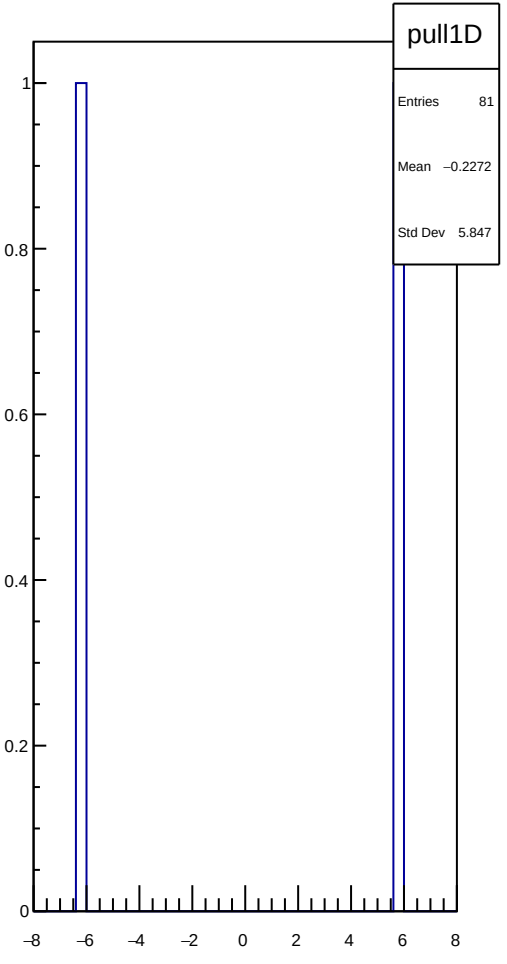

yield_bpm0l05Y_rms vs run
χ² / ndf 4.334e+05 / 80
p0 0.006203 ± 5.842e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

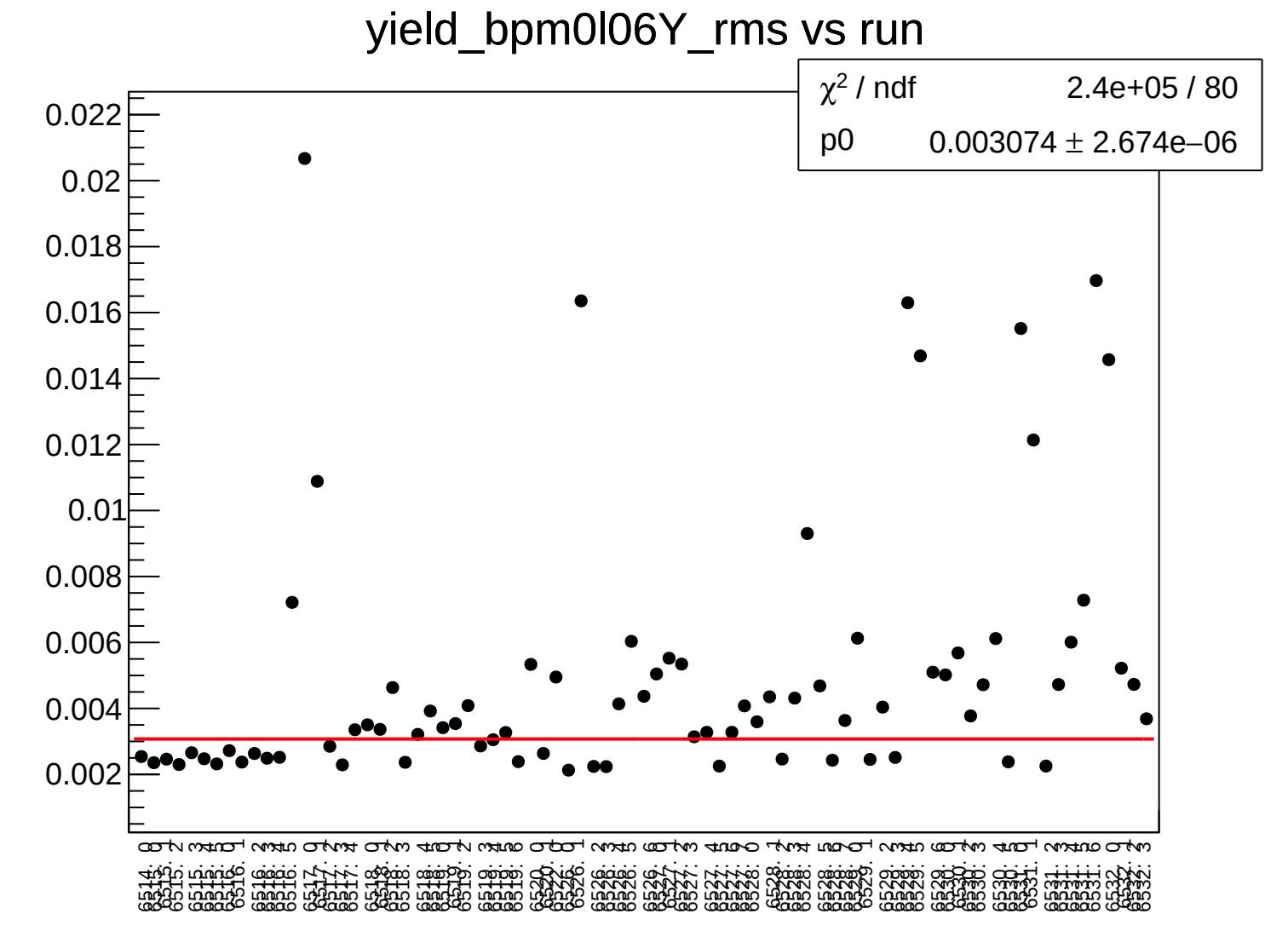

yield_bpm0l06X_mean vs run
χ² / ndf 2.055e+07 / 80
p0 1.803 ± 1.068e−05
1.86
1.84
1.82
1.8
1.78
1.76
1.74
1.72
1.7
pull
Entries 81
Mean 355.8
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200

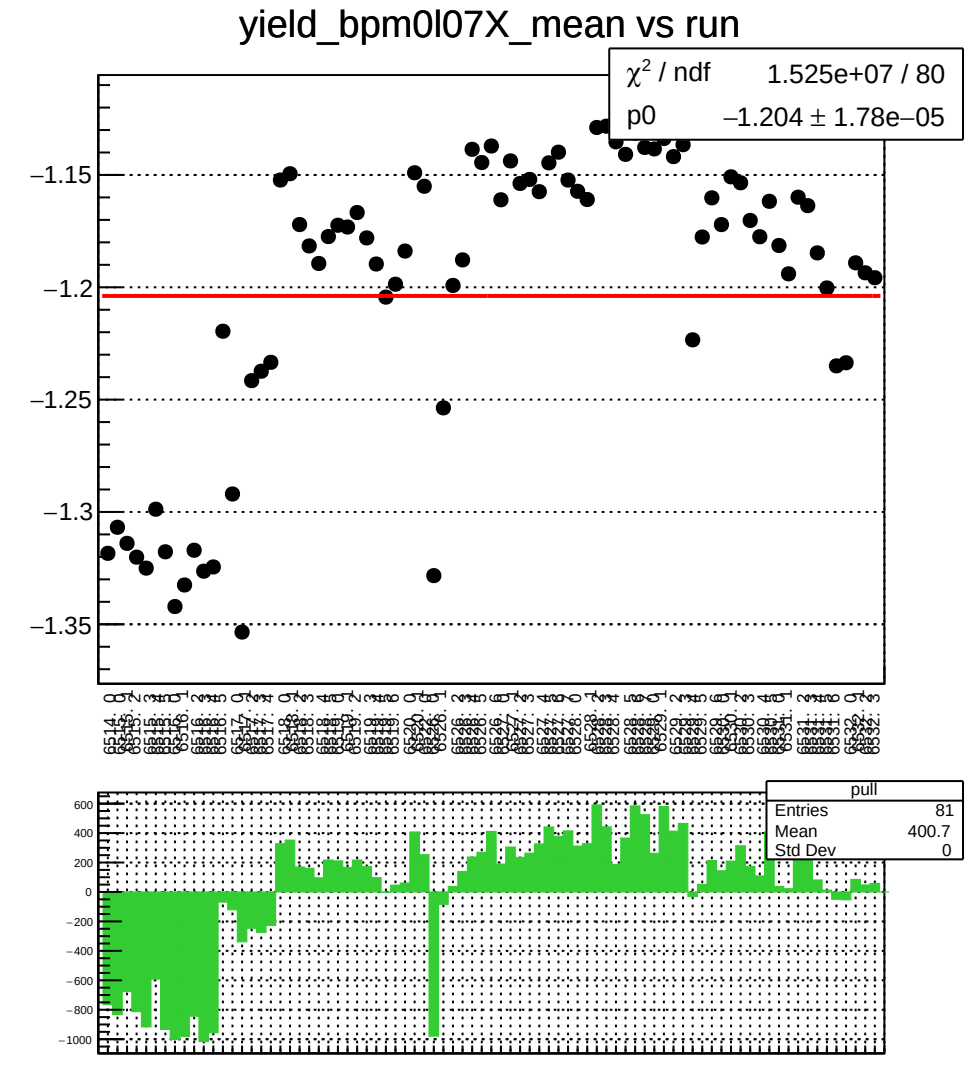

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

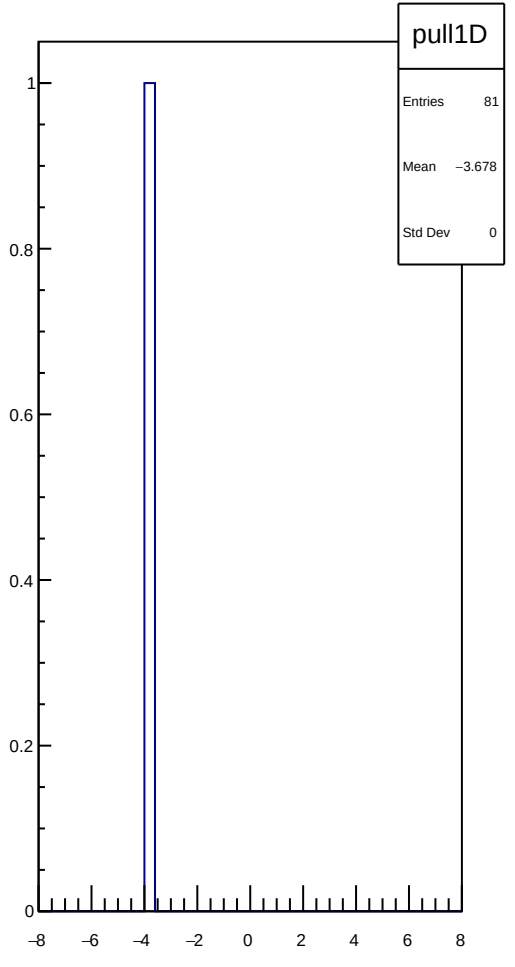

yield_bpm0l06X_rms vs run
χ² / ndf 1.762e+05 / 80
p0 0.008888 ± 7.553e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

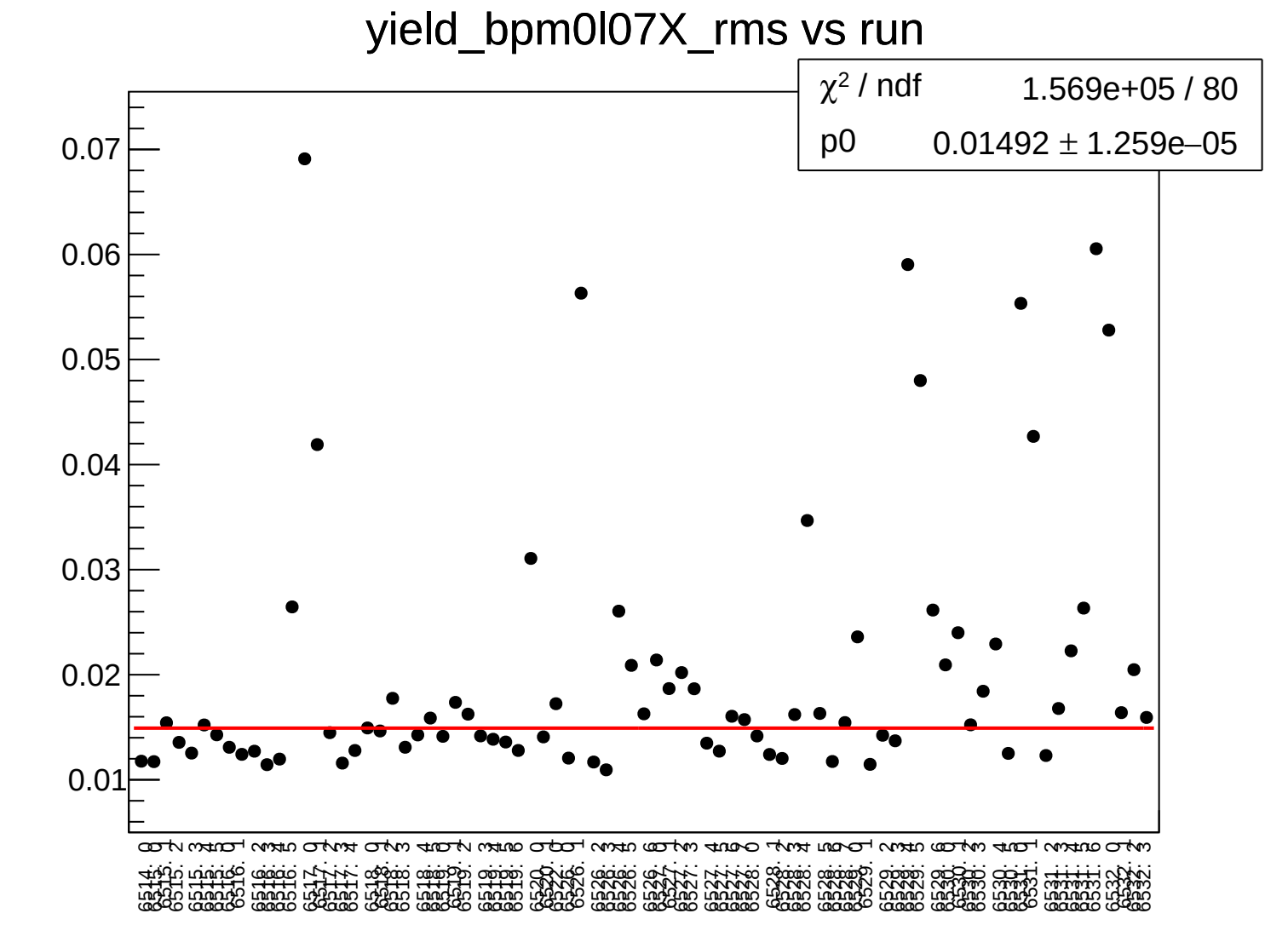

yield_bpm0l06Y_mean vs run
χ² / ndf 2.042e+07 / 80
p0 −2.292 ± 3.782e−06
−2.27
−2.28
−2.29
−2.3
−2.31
−2.32
−2.33
pull
Entries 81
Mean 207.9
Std Dev 0
1000
500
0
−500
−1000
−1500

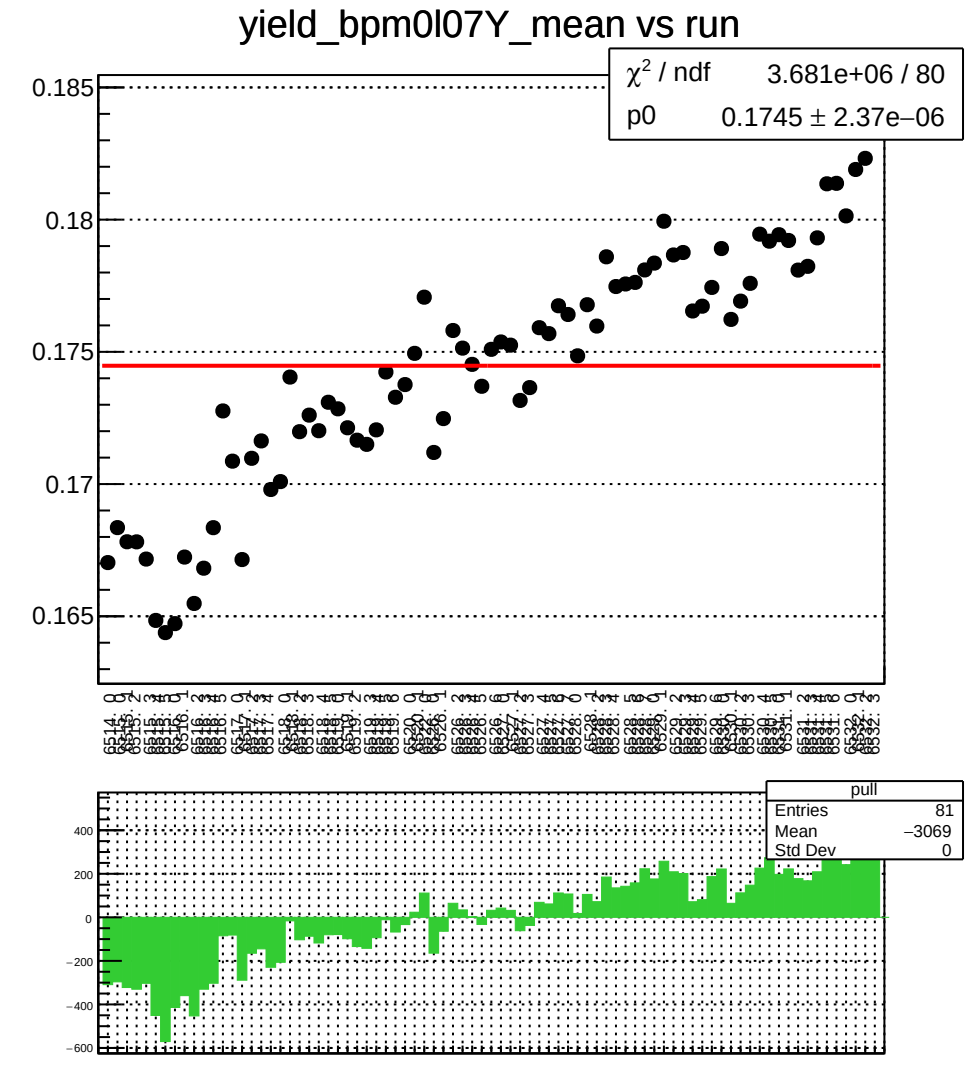

pull1D
Entries 81
Mean −0.2272
Std Dev 5.847
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

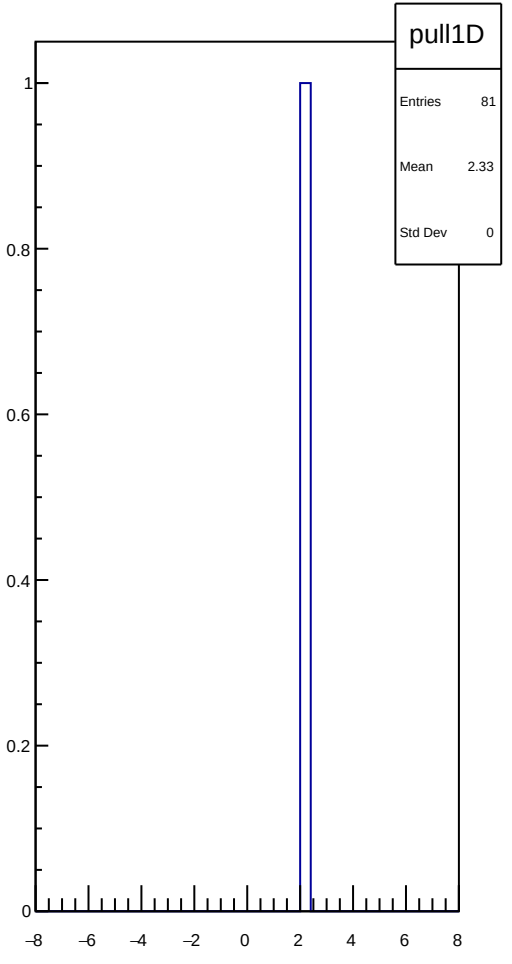

yield_bpm0l06Y_rms vs run
χ² / ndf 2.4e+05 / 80
p0 0.003074 ± 2.674e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

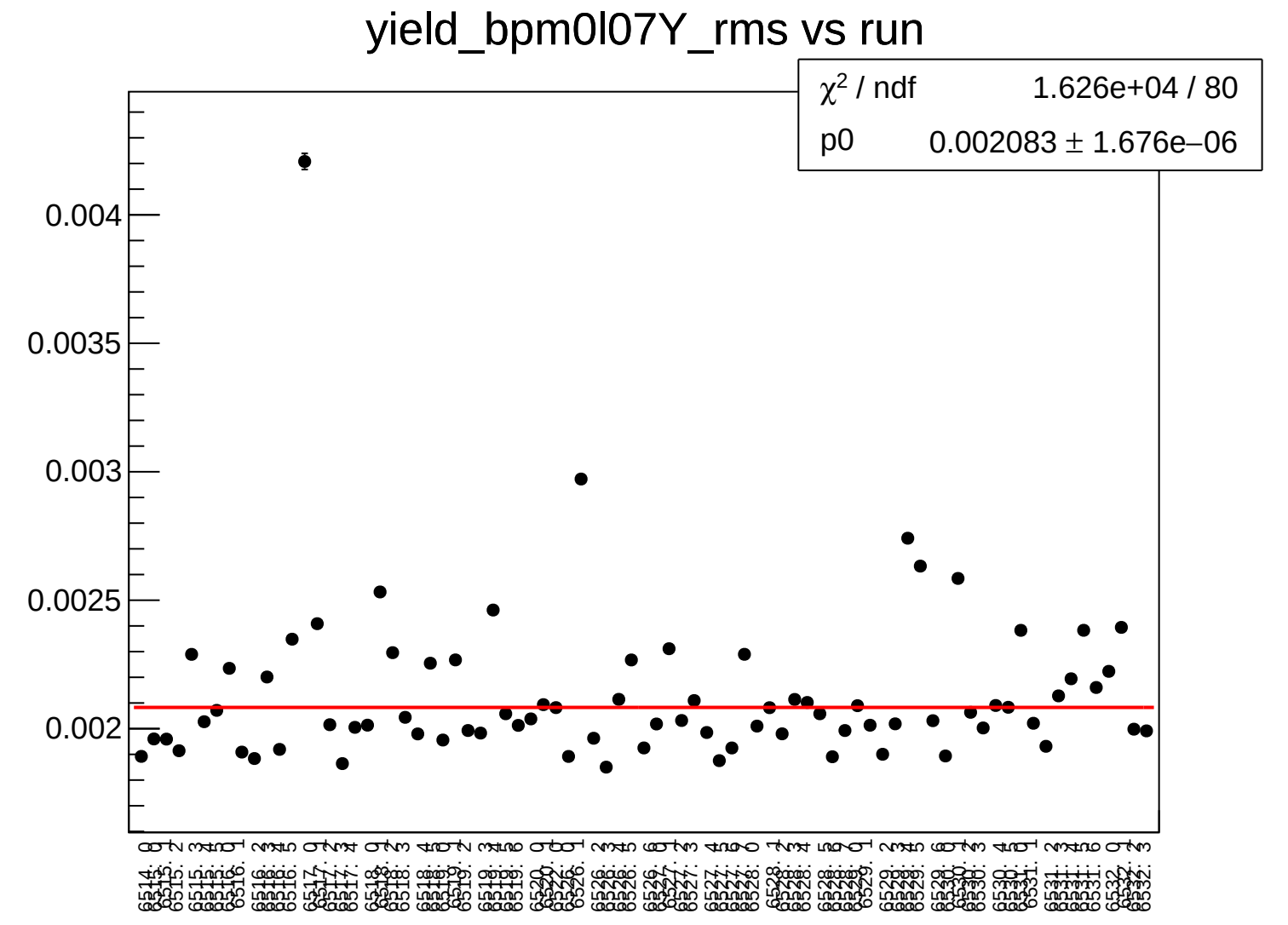

yield_bpm0l07X_mean vs run
χ² / ndf 1.525e+07 / 80
p0 −1.204 ± 1.78e−05
−1.15
−1.2
−1.25
−1.3
−1.35
pull
Entries 81
Mean 400.7
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000

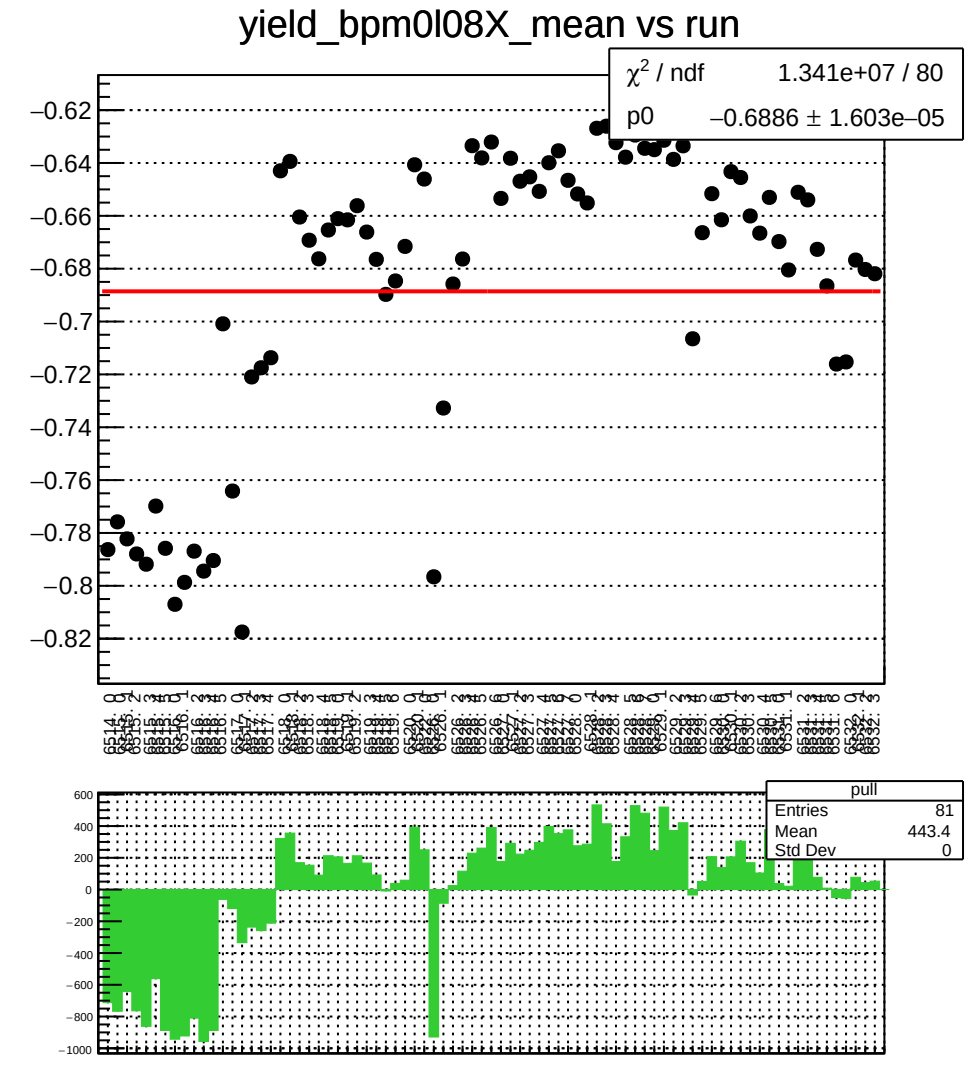

pull1D
Entries 81
Mean −3.678
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

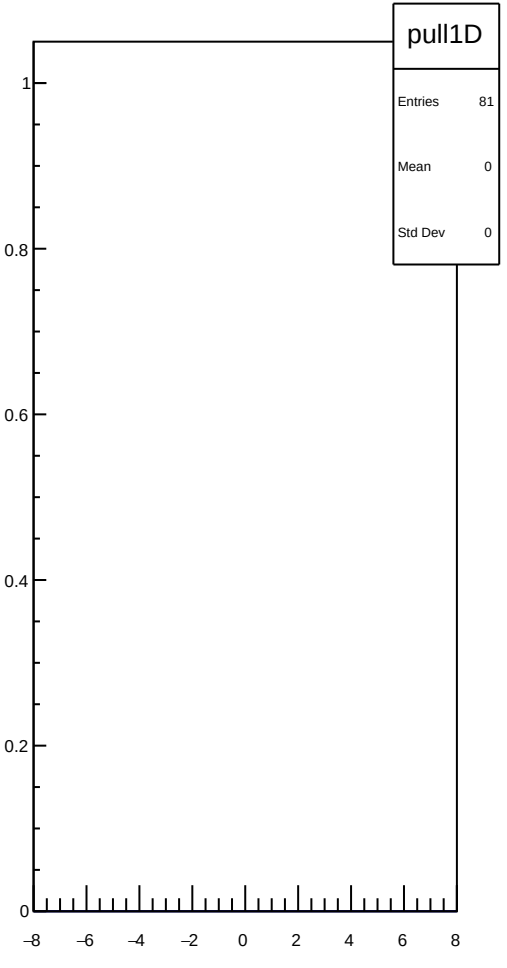

yield_bpm0l07X_rms vs run
χ² / ndf 1.569e+05 / 80
p0 0.01492 ± 1.259e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

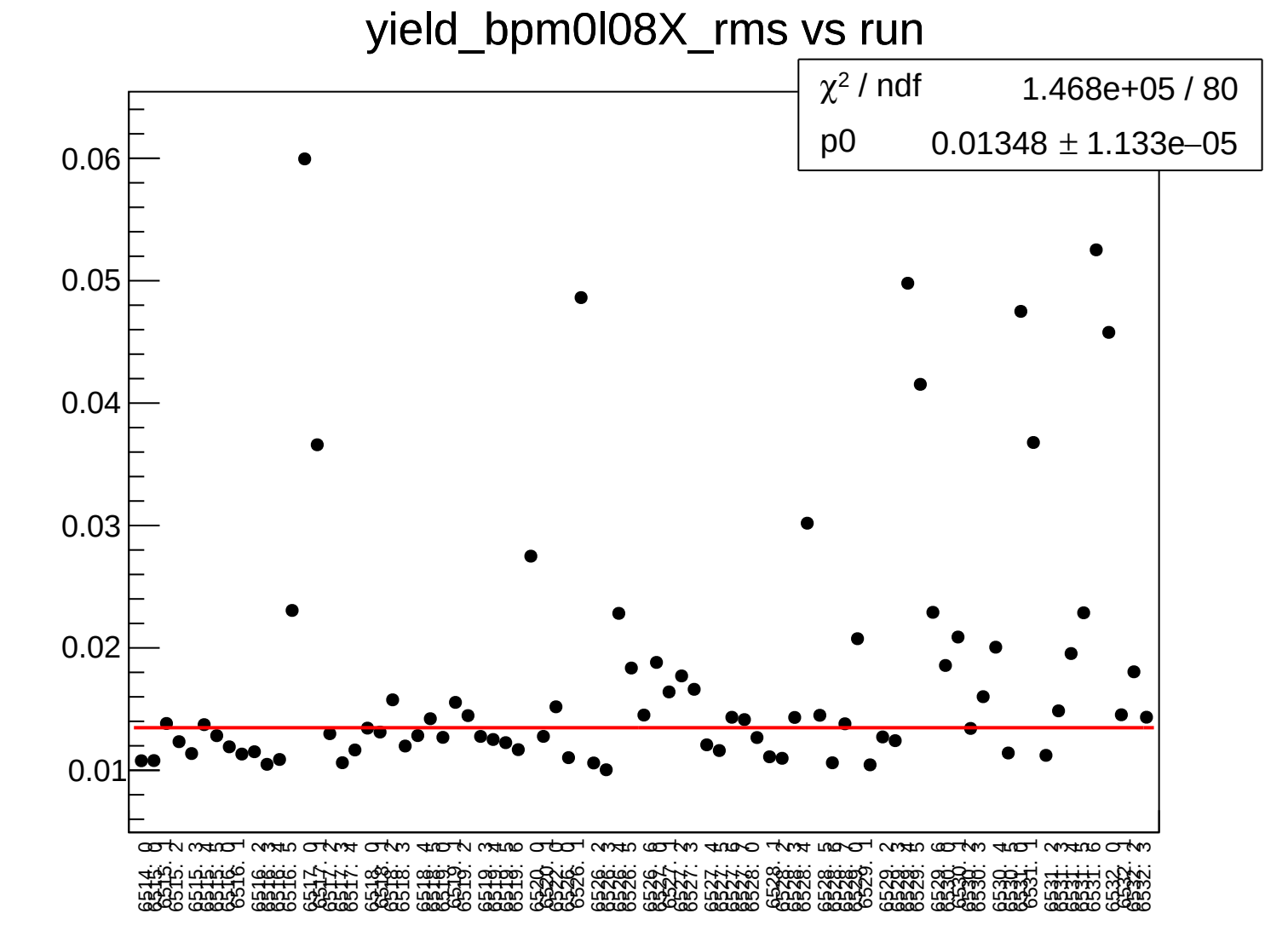

yield_bpm0l07Y_mean vs run
χ² / ndf 3.681e+06 / 80
p0 0.1745 ± 2.37e−06
0.185
0.18
0.175
0.17
0.165
pull
Entries 81
Mean −3069
Std Dev 0
400
200
0
−200
−400
−600

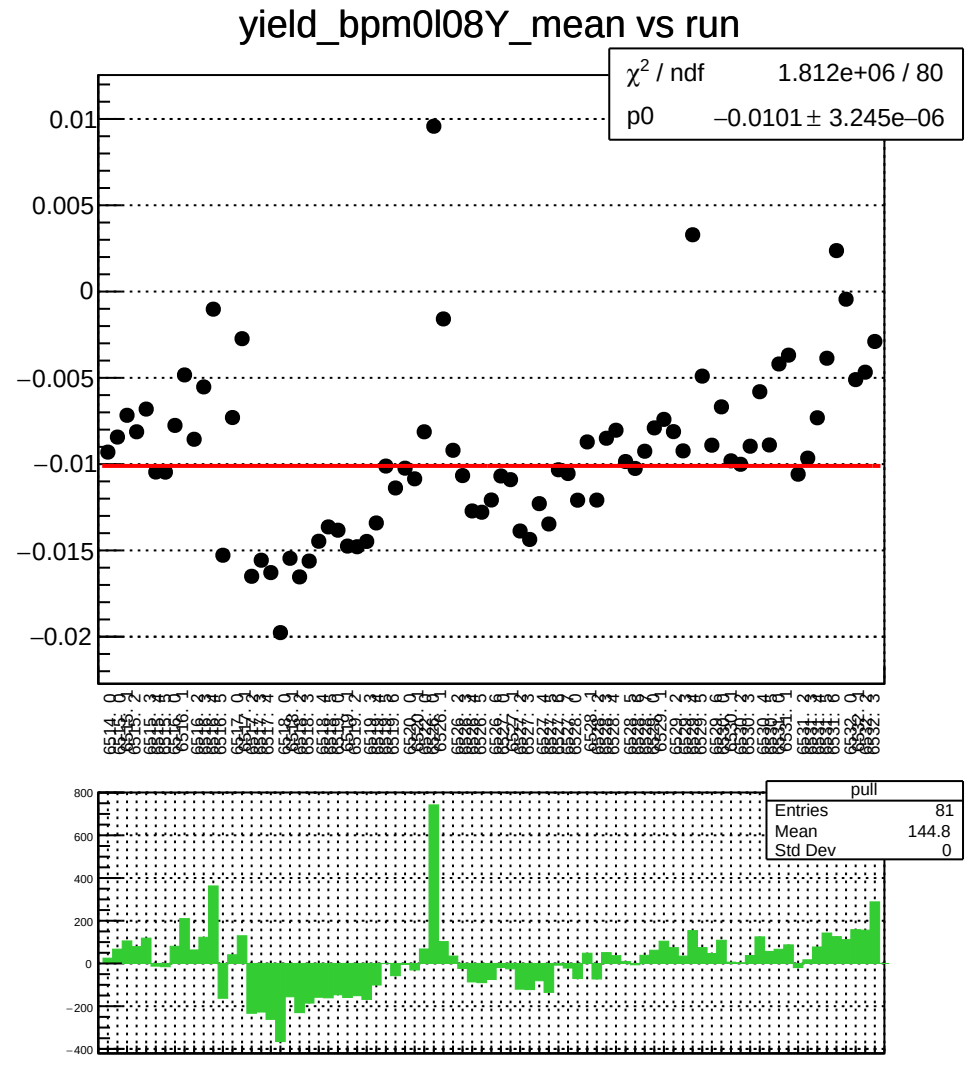

pull1D
Entries 81
Mean 2.33
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

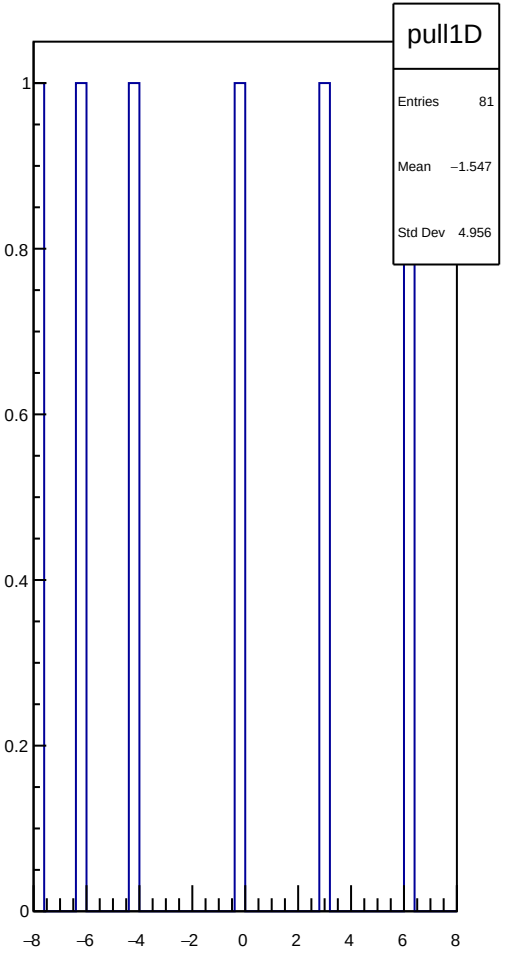

yield_bpm0l07Y_rms vs run
χ² / ndf 1.626e+04 / 80
p0 0.002083 ± 1.676e−06
0.004
0.0035
0.003
0.0025
0.002

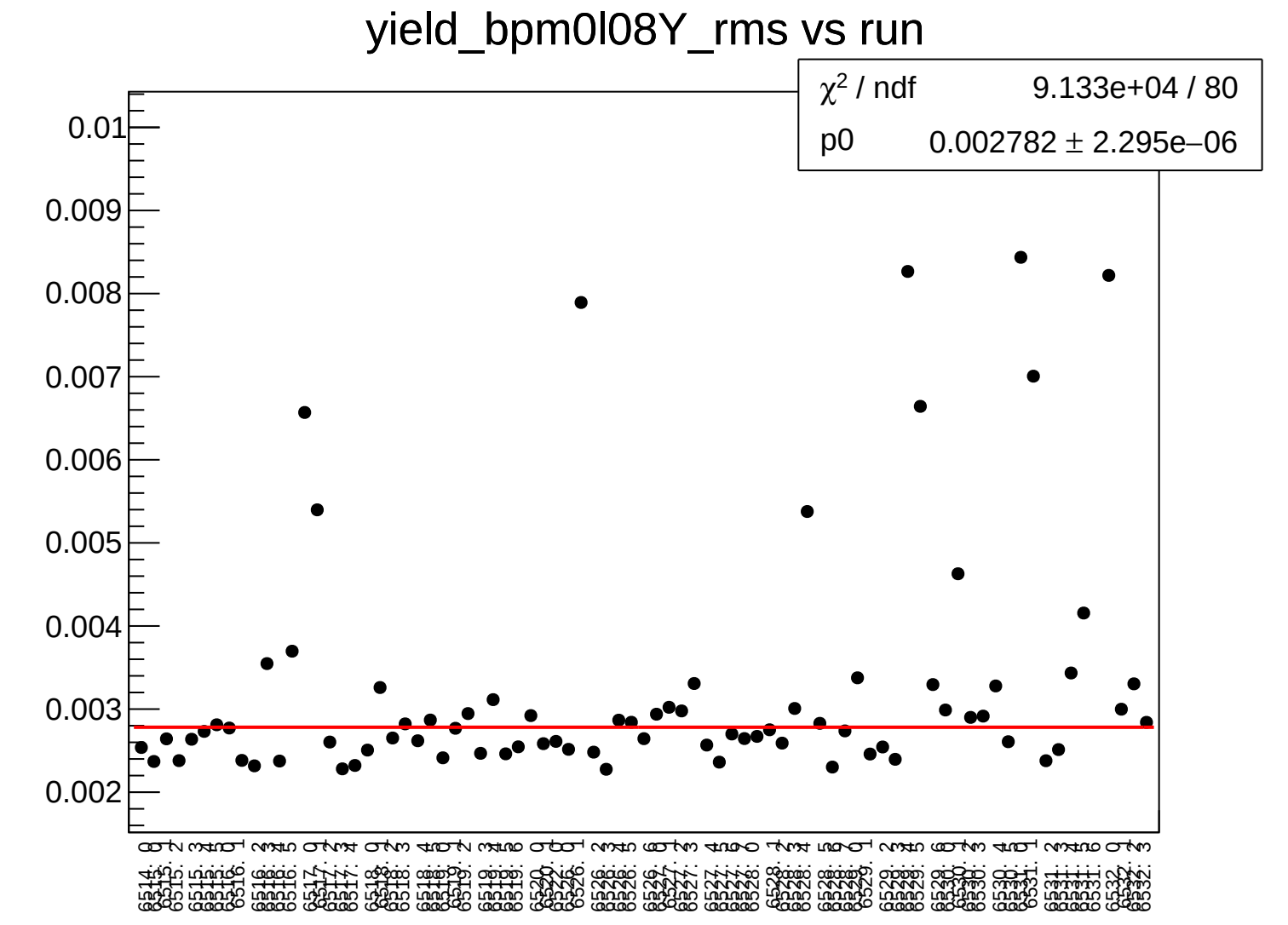

yield_bpm0l08X_mean vs run
χ² / ndf 1.341e+07 / 80
p0 −0.6886 ± 1.603e−05
pull
Entries 81
Mean 443.4
Std Dev 0

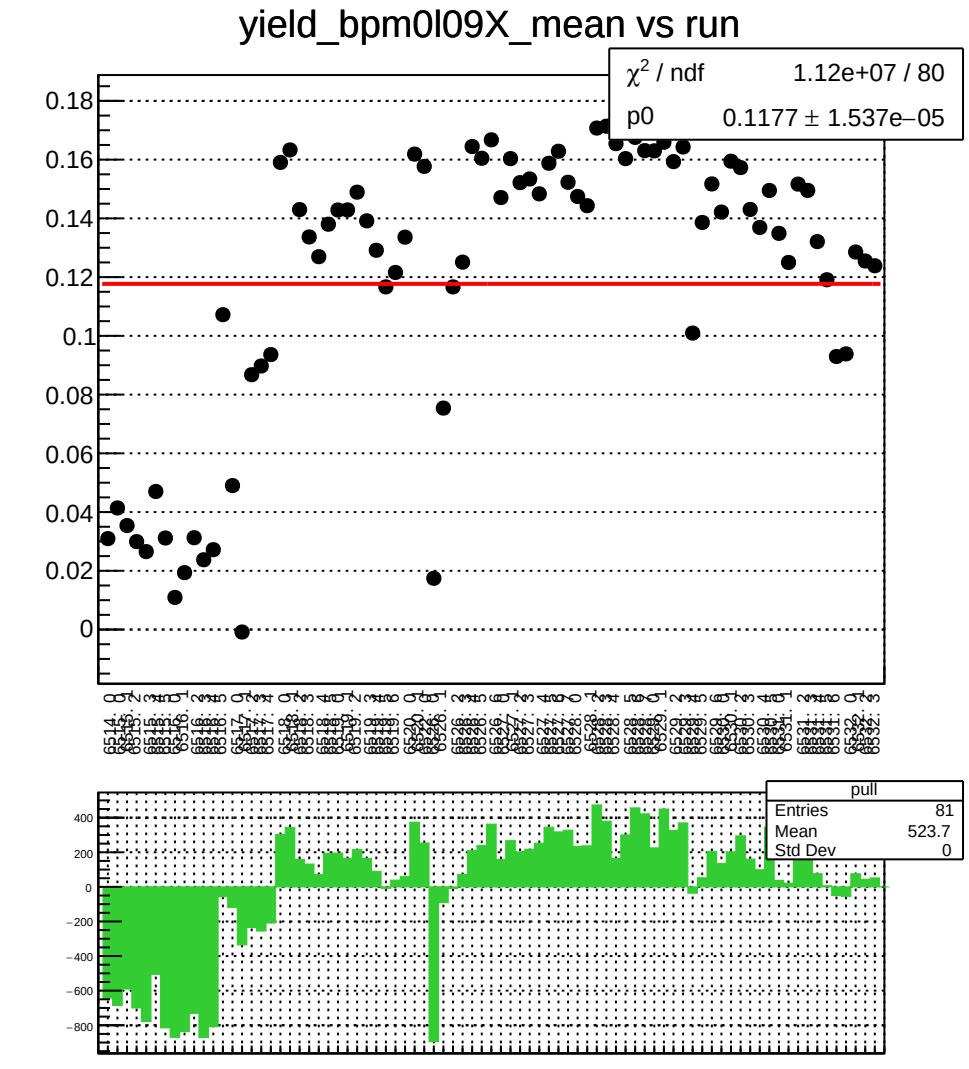

pull1D
Entries 81
Mean 0
Std Dev 0

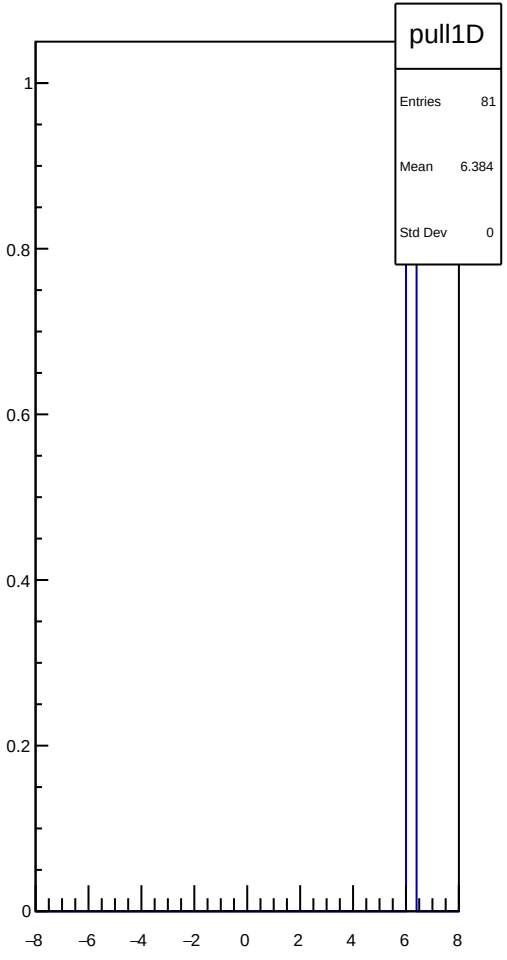

yield_bpm0l08X_rms vs run
χ² / ndf 1.468e+05 / 80
p0 0.01348 ± 1.133e–05
0.06
0.05
0.04
0.03
0.02
0.01

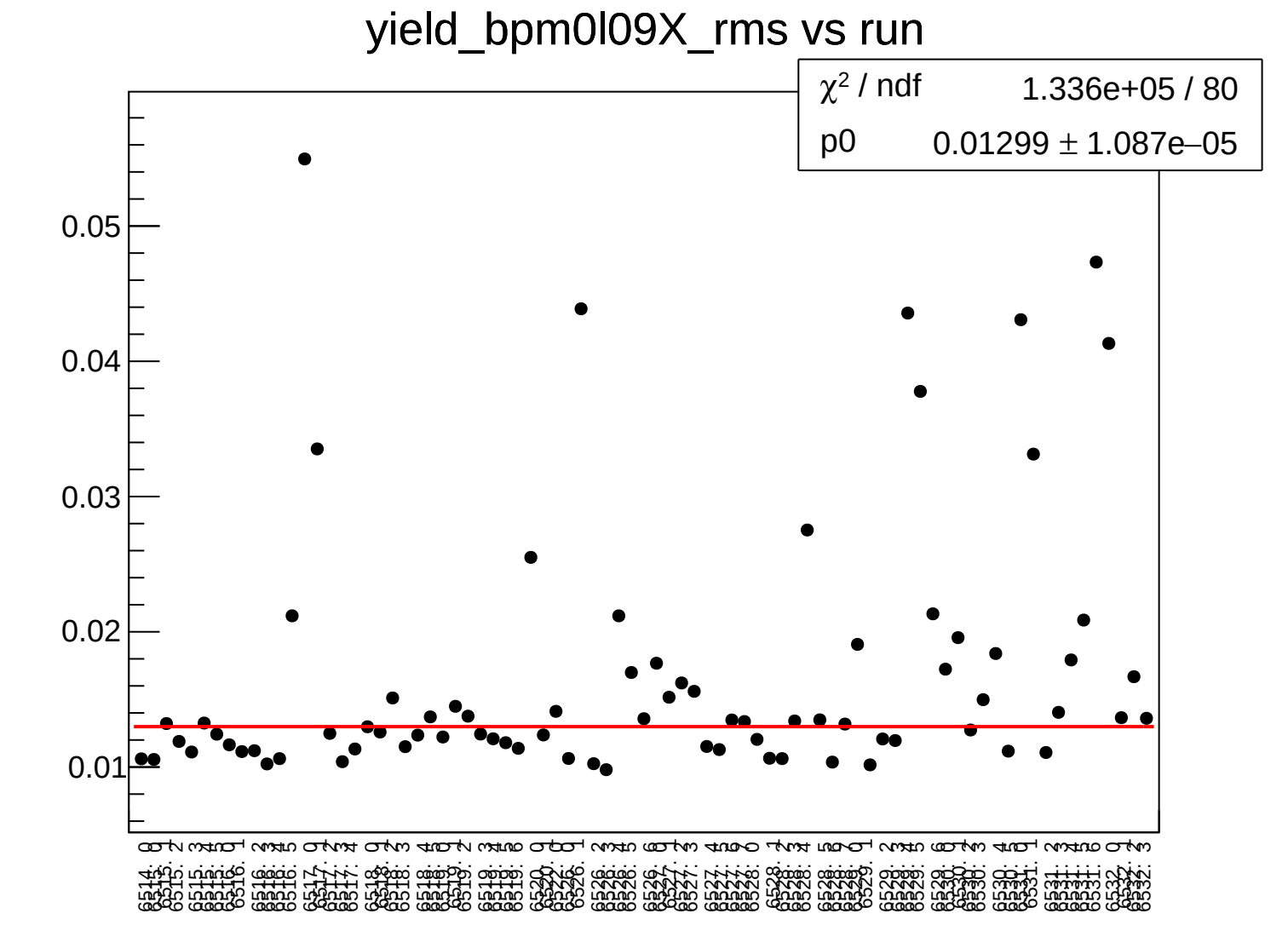

yield_bpm0l08Y_mean vs run
χ² / ndf 1.812e+06 / 80
p0 −0.0101 ± 3.245e−06
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 81
Mean 144.8
Std Dev 0
800
600
400
200
0
−200
−400

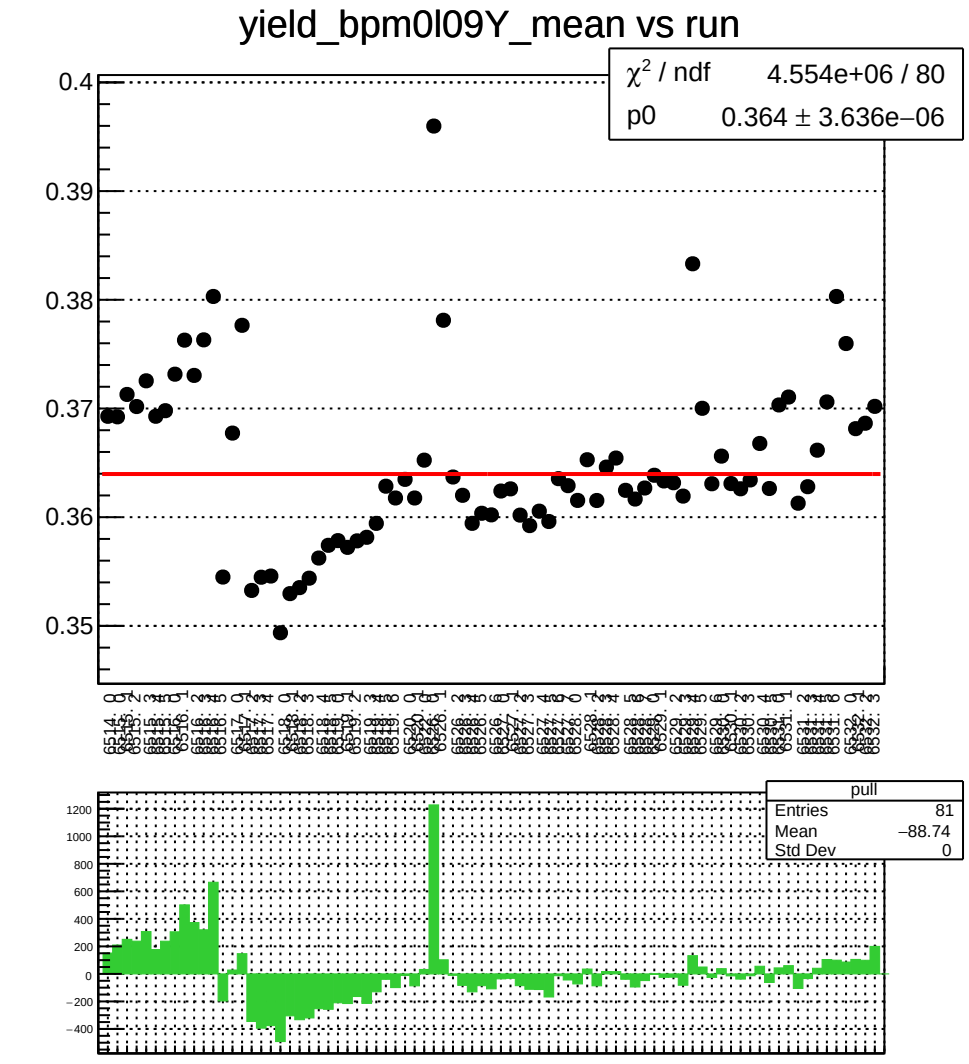

pull1D
Entries 81
Mean −1.547
Std Dev 4.956
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

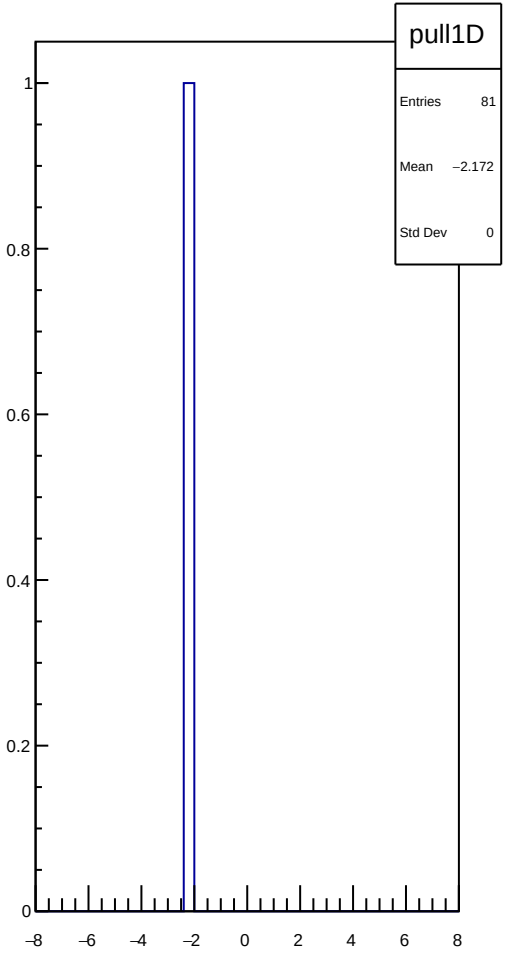

yield_bpm0l08Y_rms vs run
χ^2 / ndf 9.133e+04 / 80
p0 0.002782 ± 2.295e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

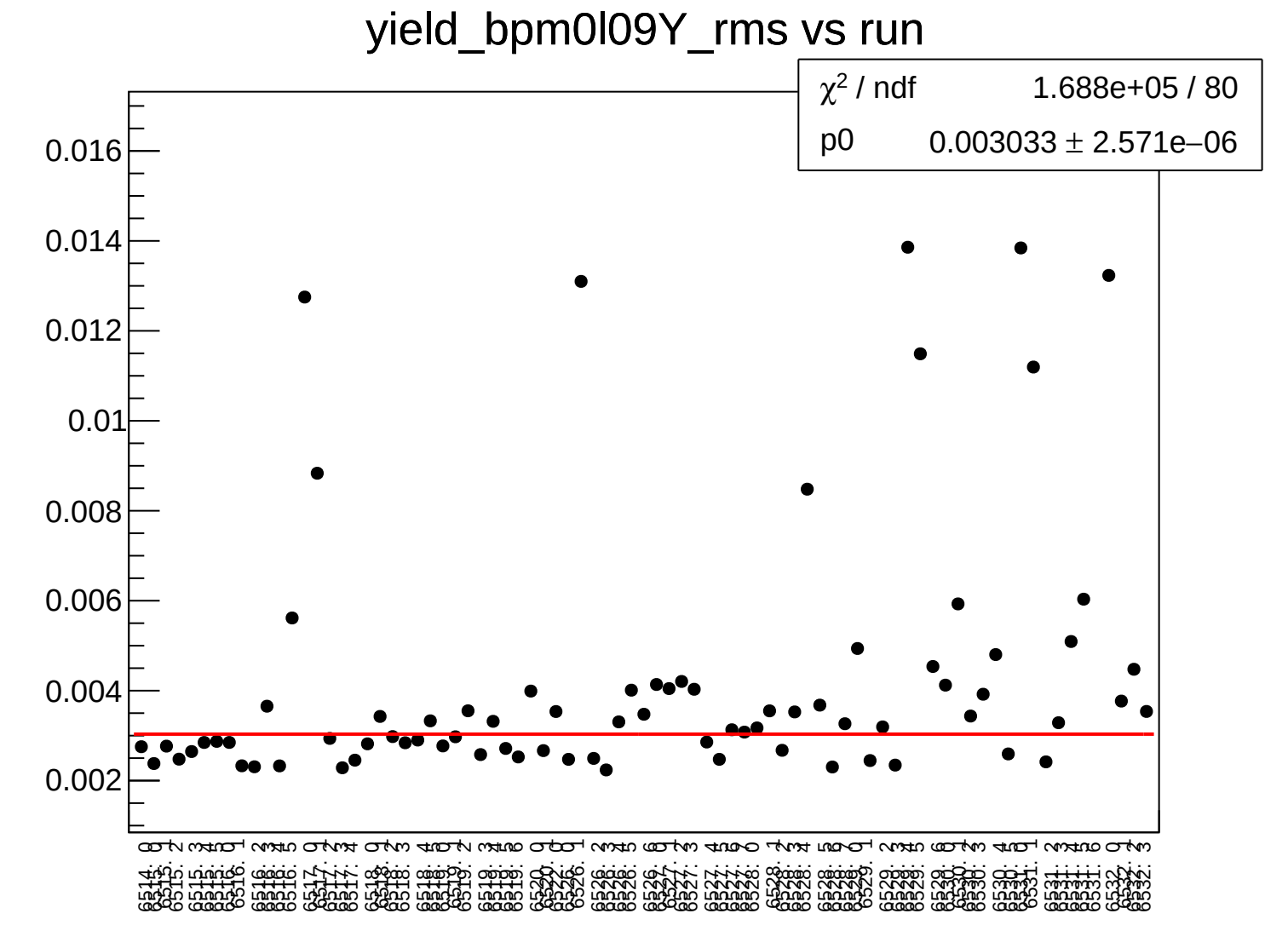

yield_bpm0l09X_mean vs run
χ² / ndf 1.12e+07 / 80
p0 0.1177 ± 1.537e−05
pull
Entries 81
Mean 523.7
Std Dev 0

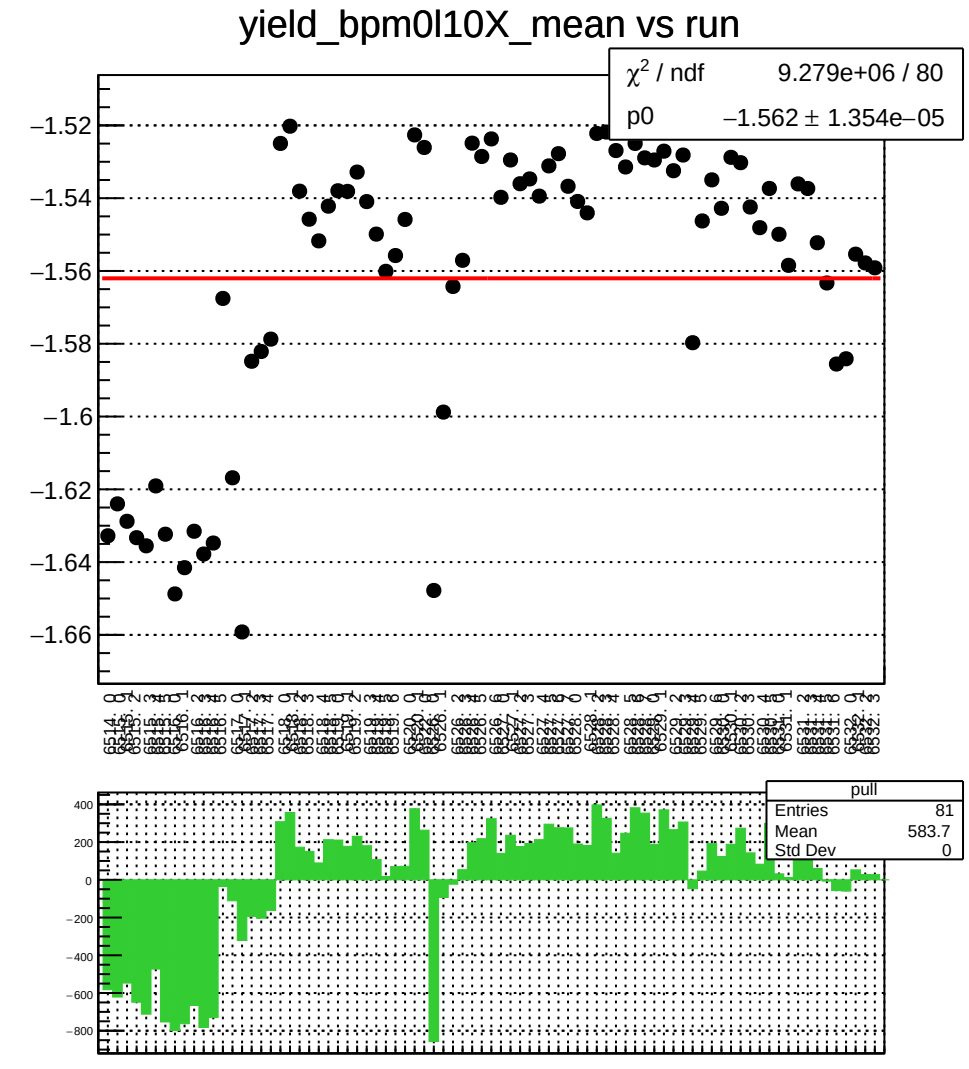

pull1D
Entries 81
Mean 6.384
Std Dev 0

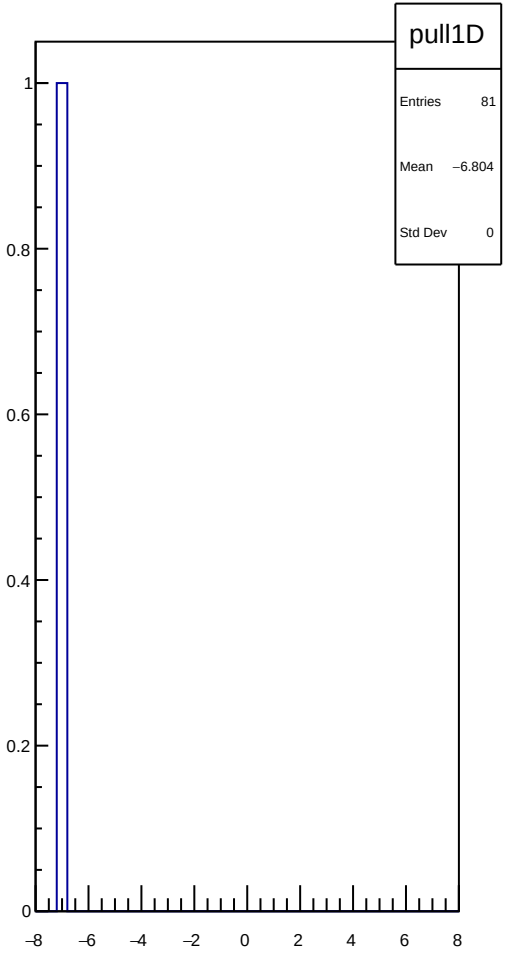

yield_bpm0l09X_rms vs run
χ² / ndf 1.336e+05 / 80
p0 0.01299 ± 1.087e–05
0.05
0.04
0.03
0.02
0.01

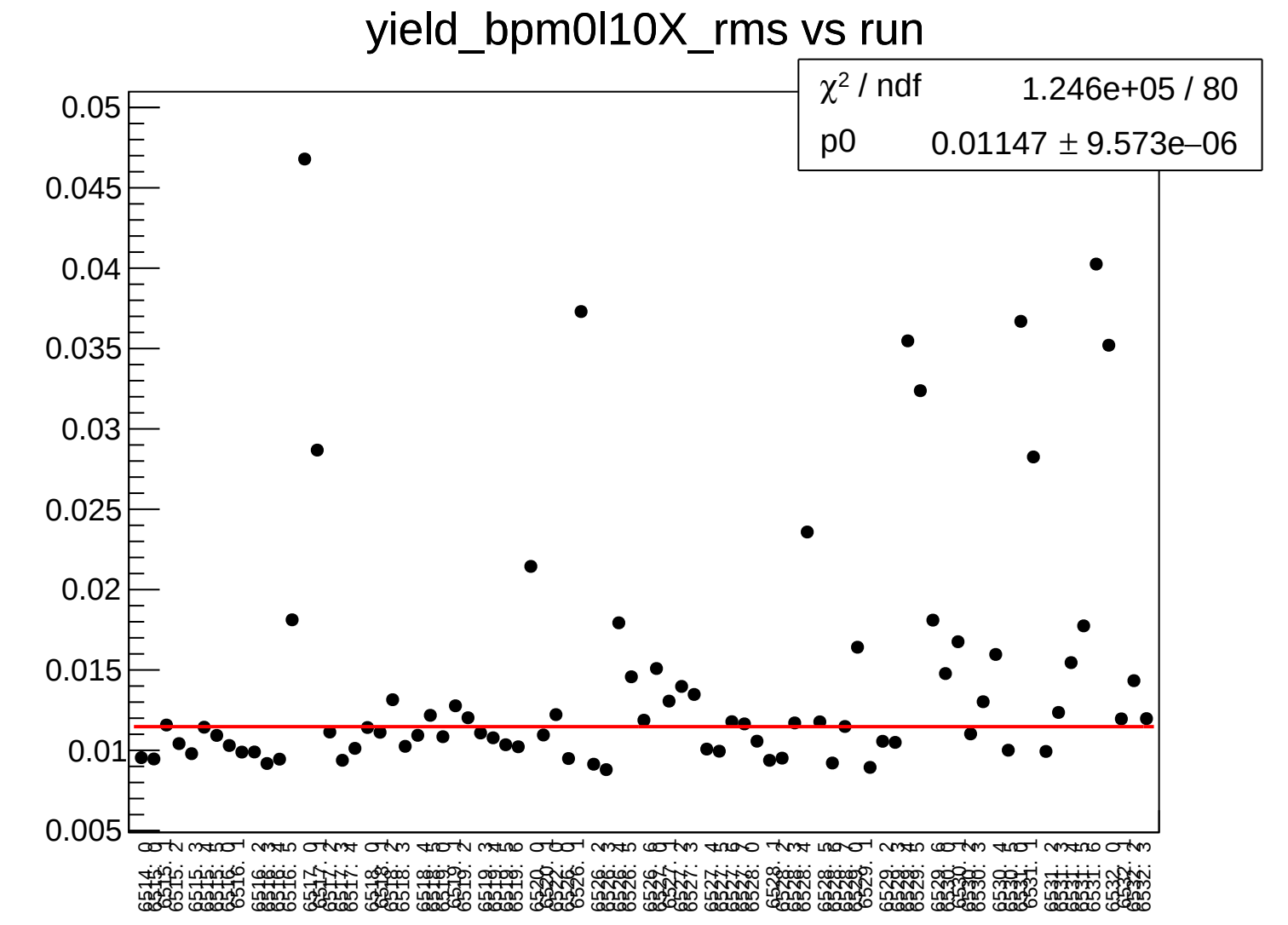

yield_bpm0l09Y_mean vs run
χ² / ndf 4.554e+06 / 80
p0 0.364 ± 3.636e−06
0.4
0.39
0.38
0.37
0.36
0.35
pull
Entries 81
Mean −88.74
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400

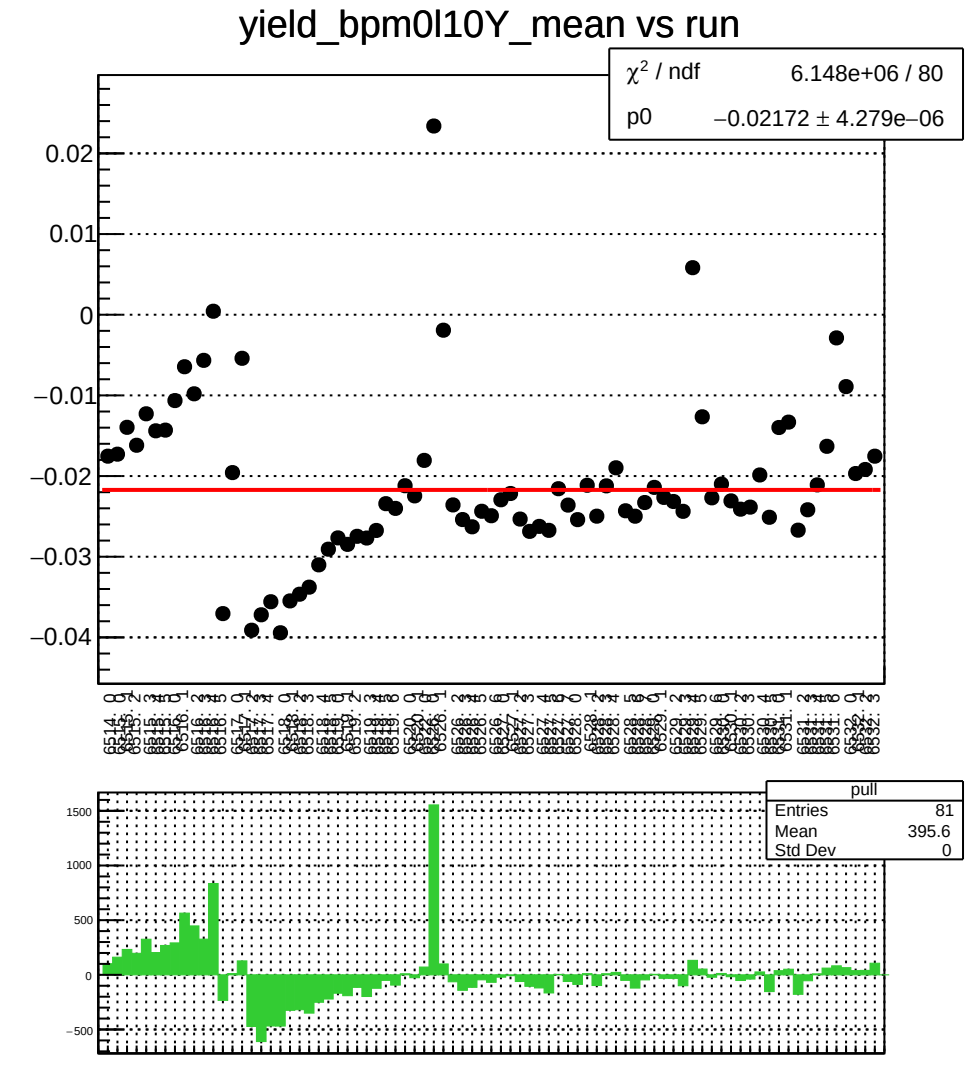

pull1D
Entries 81
Mean −2.172
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

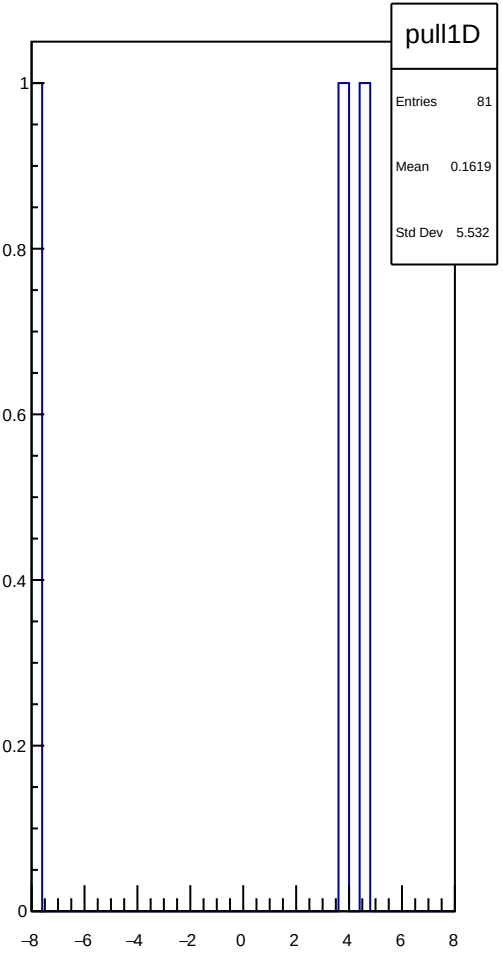

yield_bpm0l09Y_rms vs run
χ^2 / ndf 1.688e+05 / 80
p0 0.003033 ± 2.571e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

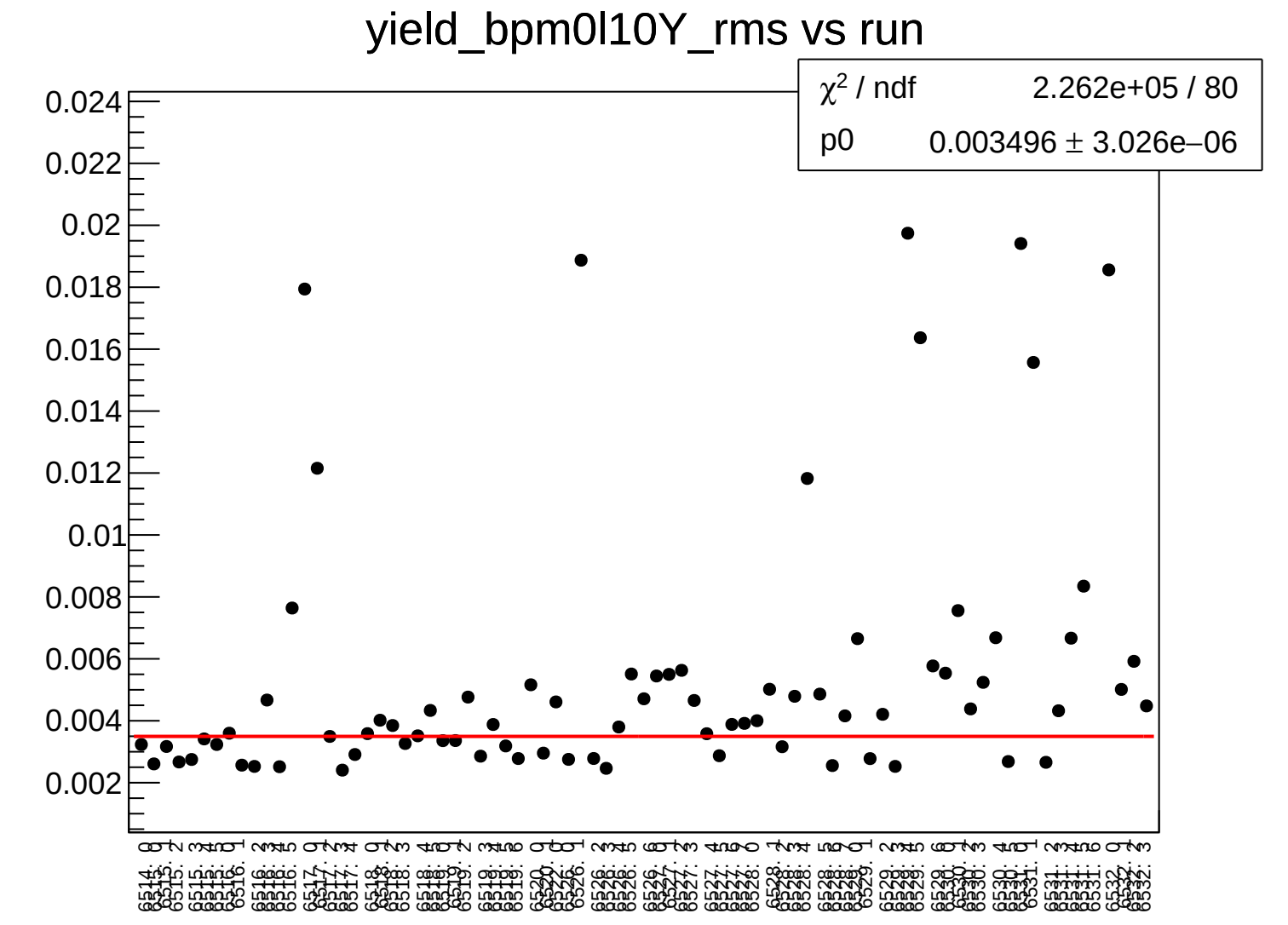

yield_bpm0l10X_mean vs run
χ² / ndf 9.279e+06 / 80
p0 −1.562 ± 1.354e−05
−1.52
−1.54
−1.56
−1.58
−1.6
−1.62
−1.64
−1.66
pull
Entries 81
Mean 583.7
Std Dev 0
400
200
0
−200
−400
−600
−800

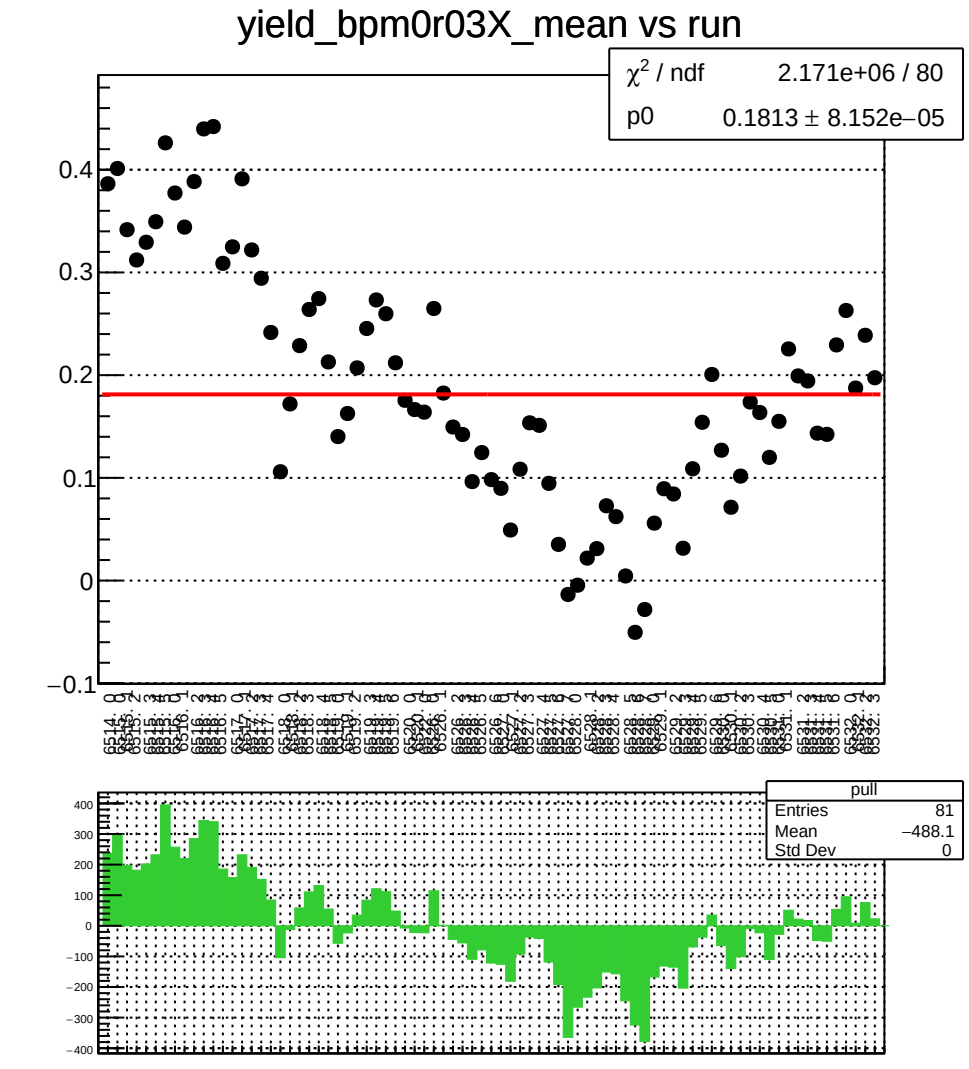

pull1D
Entries 81
Mean −6.804
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

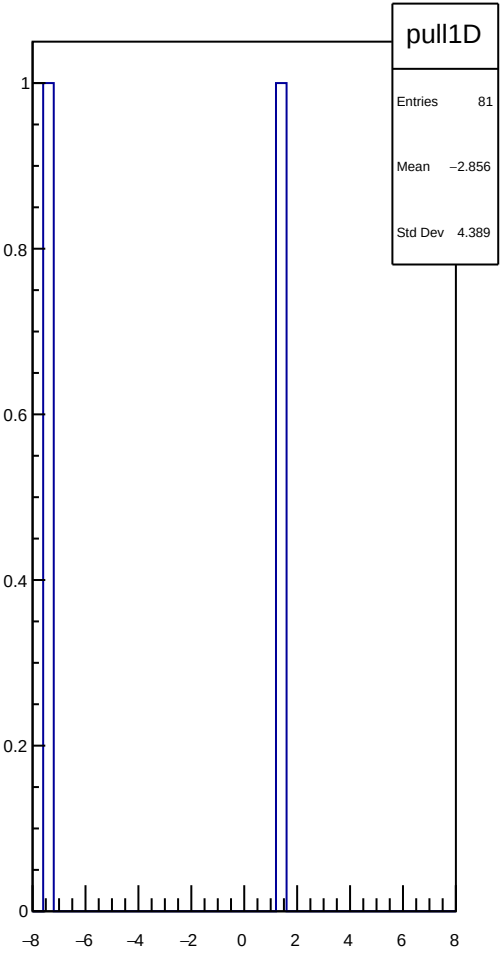

yield_bpm0l10X_rms vs run
χ² / ndf 1.246e+05 / 80
p0 0.01147 ± 9.573e–06
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

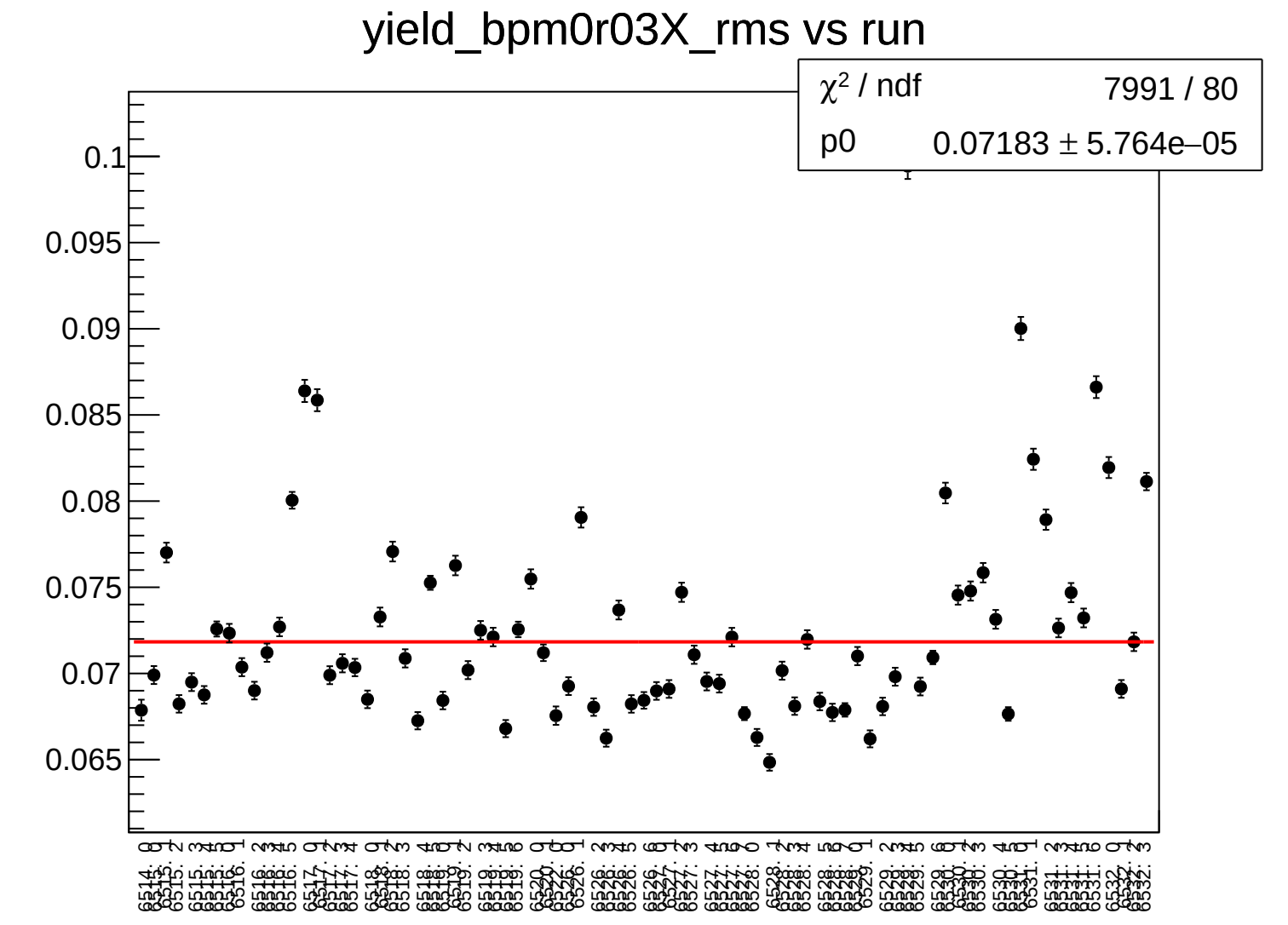

yield_bpm0l10Y_mean vs run
χ² / ndf 6.148e+06 / 80
p0 −0.02172 ± 4.279e−06
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 81
Mean 395.6
Std Dev 0
1500
1000
500
0
−500

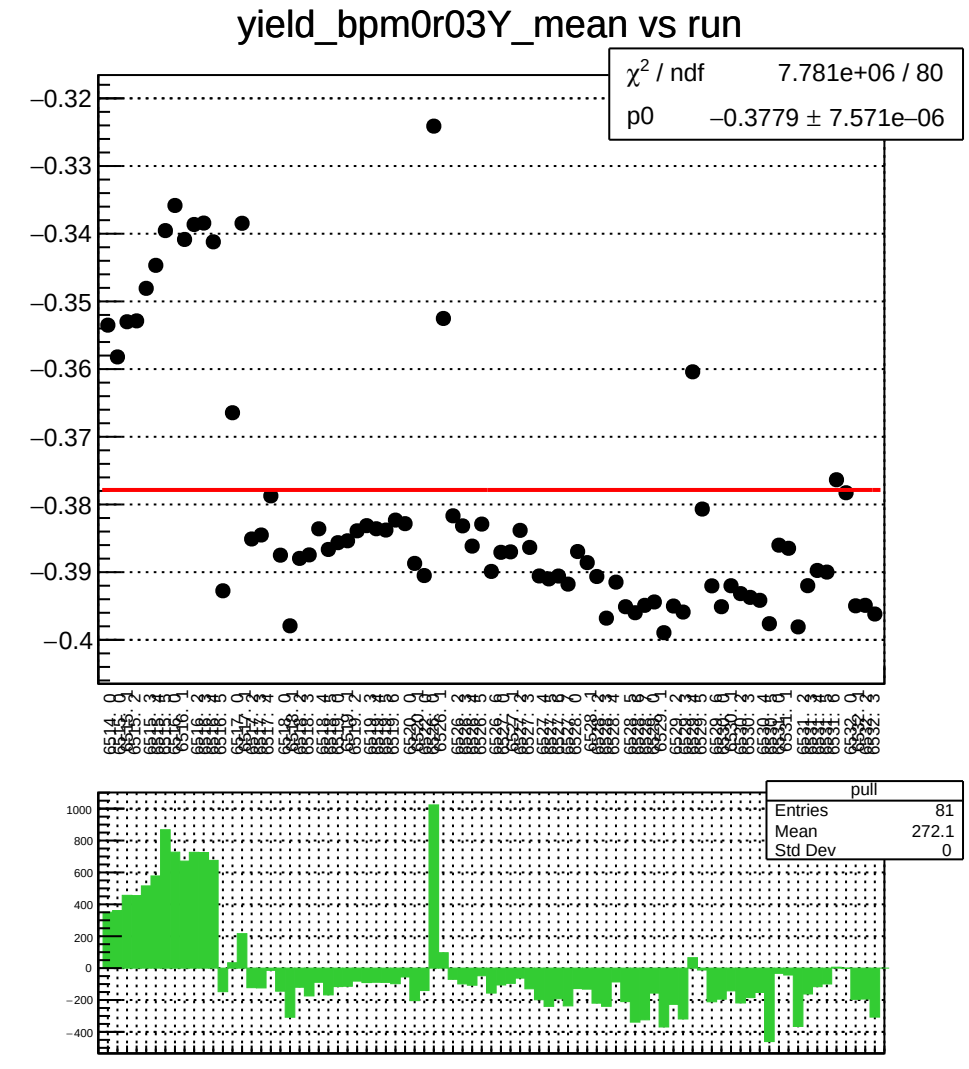

pull1D
Entries 81
Mean 0.1619
Std Dev 5.532
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

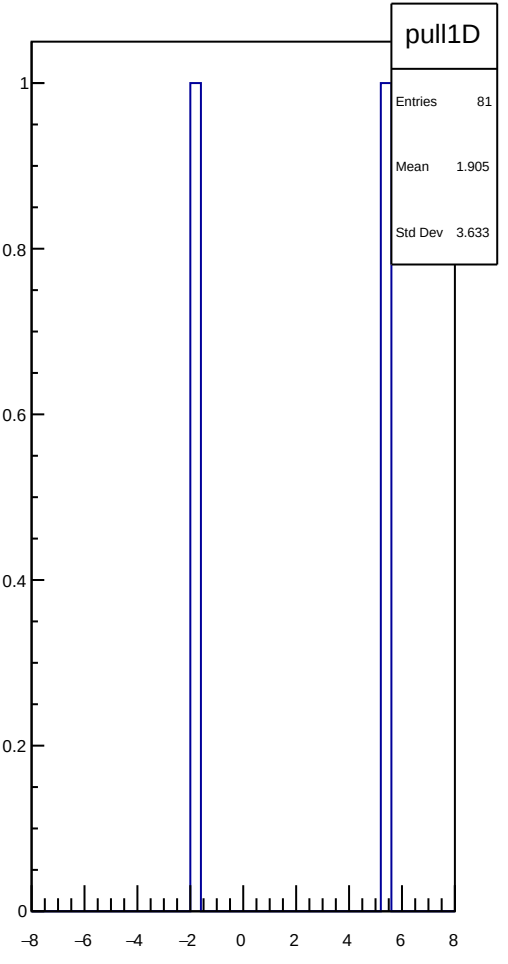

yield_bpm0l10Y_rms vs run
χ² / ndf 2.262e+05 / 80
p0 0.003496 ± 3.026e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

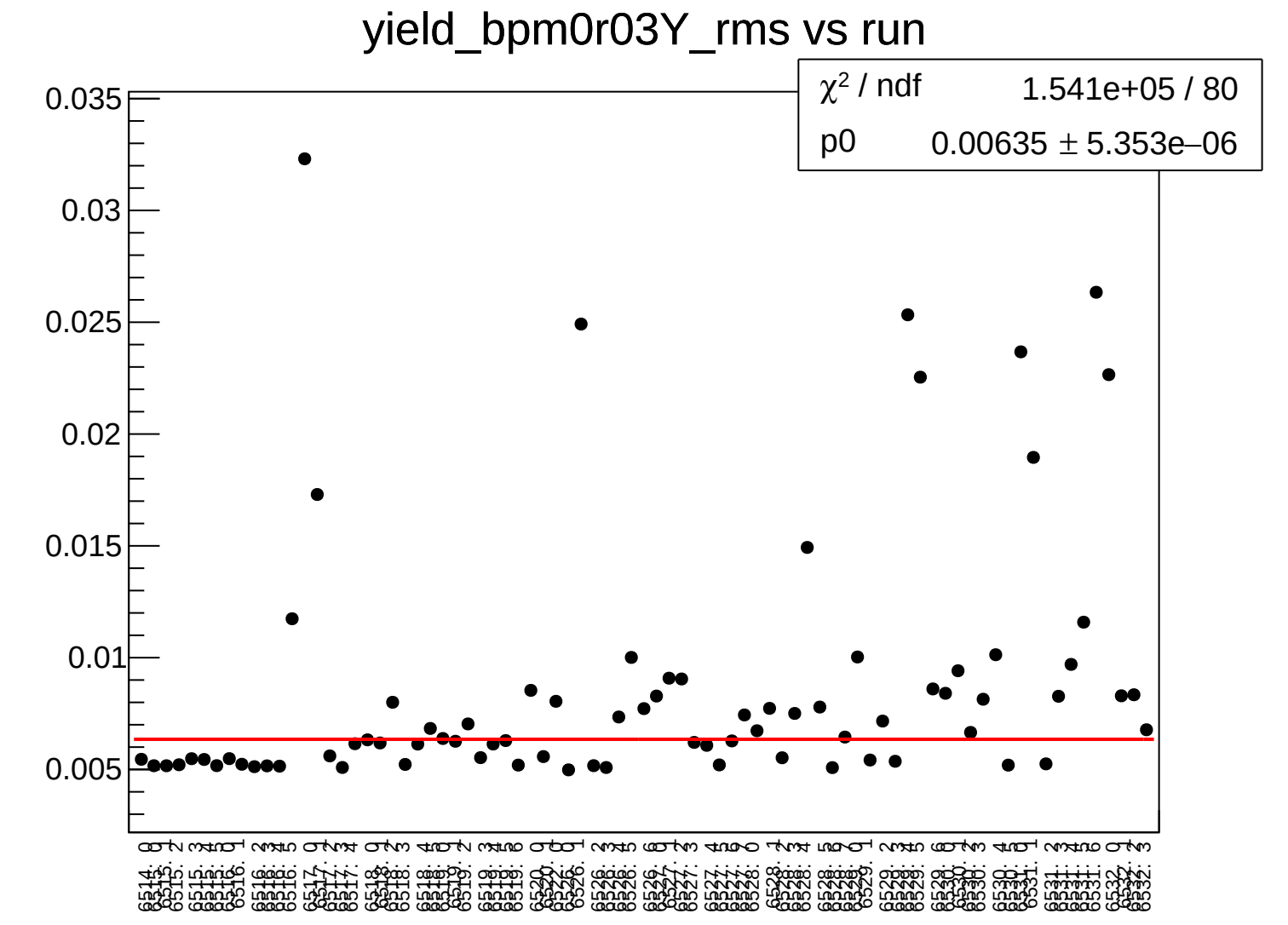

yield_bpm0r03X_mean vs run
χ² / ndf 2.171e+06 / 80
p0 0.1813 ± 8.152e−05
pull
Entries 81
Mean −488.1
Std Dev 0

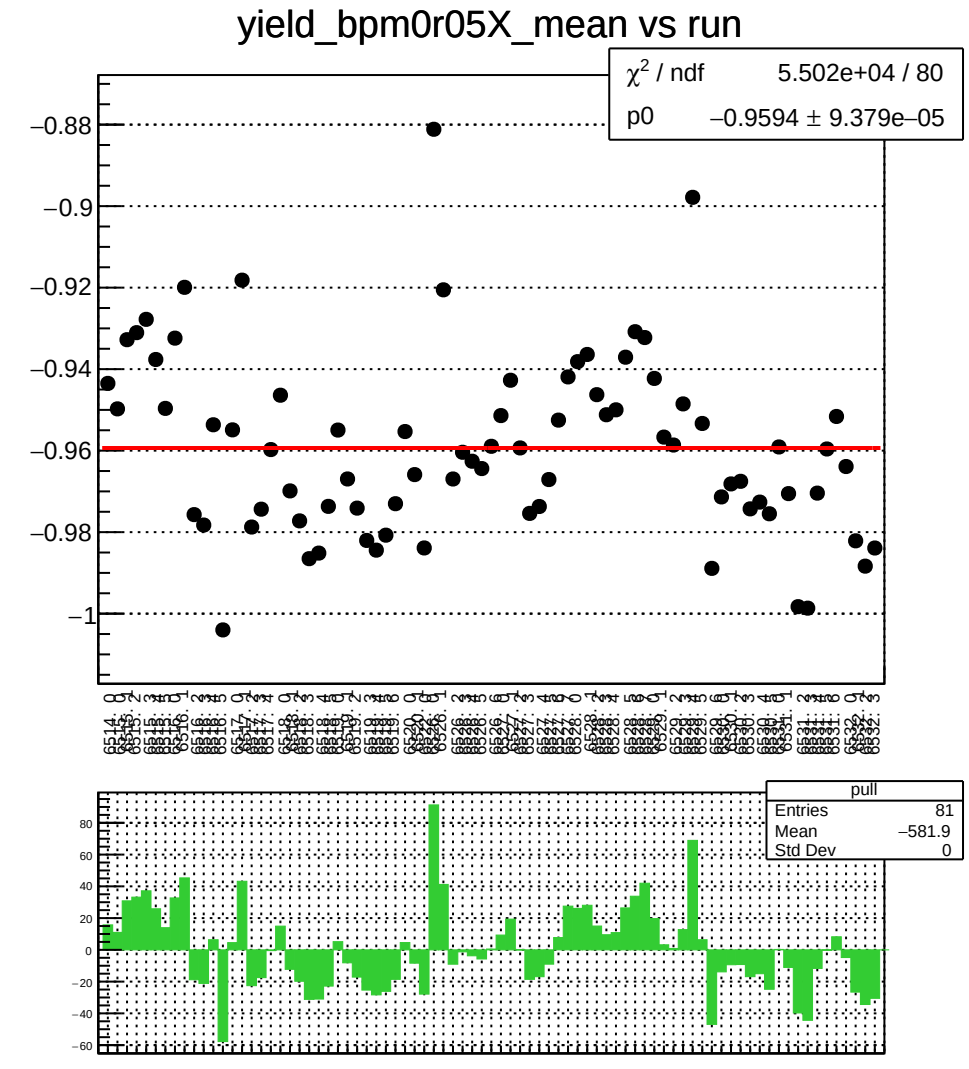

pull1D
Entries 81
Mean −2.856
Std Dev 4.389

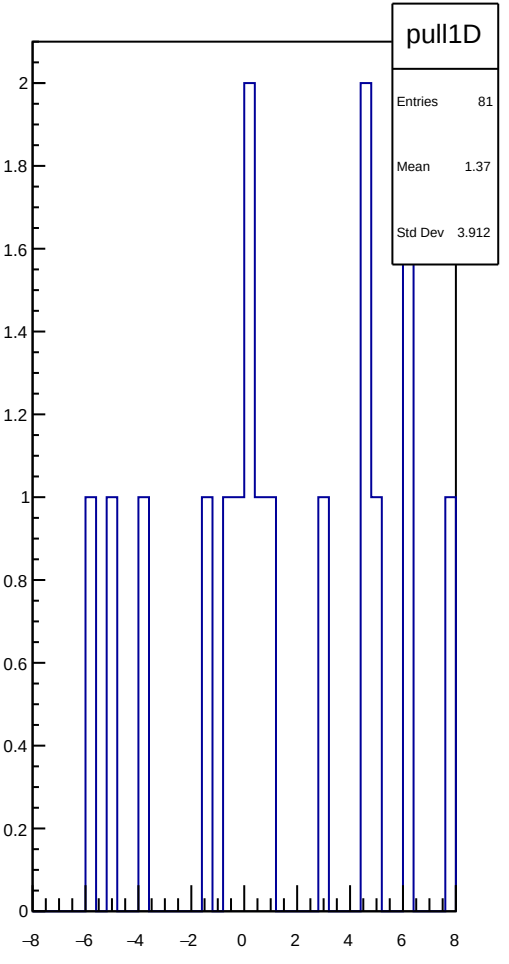

yield_bpm0r03X_rms vs run
χ² / ndf 7991 / 80
p0 0.07183 ± 5.764e−05
0.1
0.095
0.09
0.085
0.08
0.075
0.07
0.065

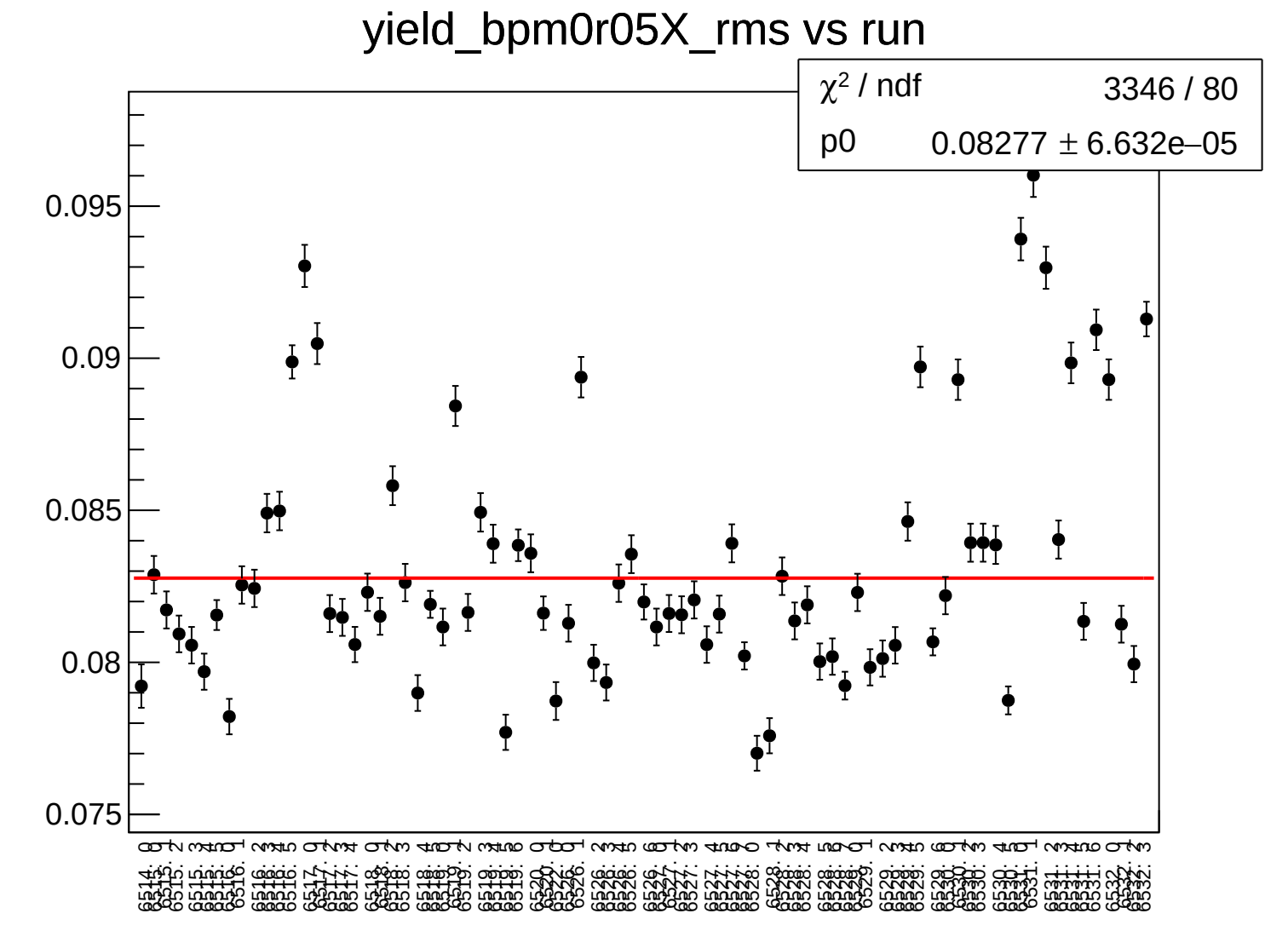

yield_bpm0r03Y_mean vs run
χ² / ndf 7.781e+06 / 80
p0 −0.3779 ± 7.571e−06
−0.32
−0.33
−0.34
−0.35
−0.36
−0.37
−0.38
−0.39
−0.4
pull
Entries 81
Mean 272.1
Std Dev 0
1000
800
600
400
200
0
−200
−400

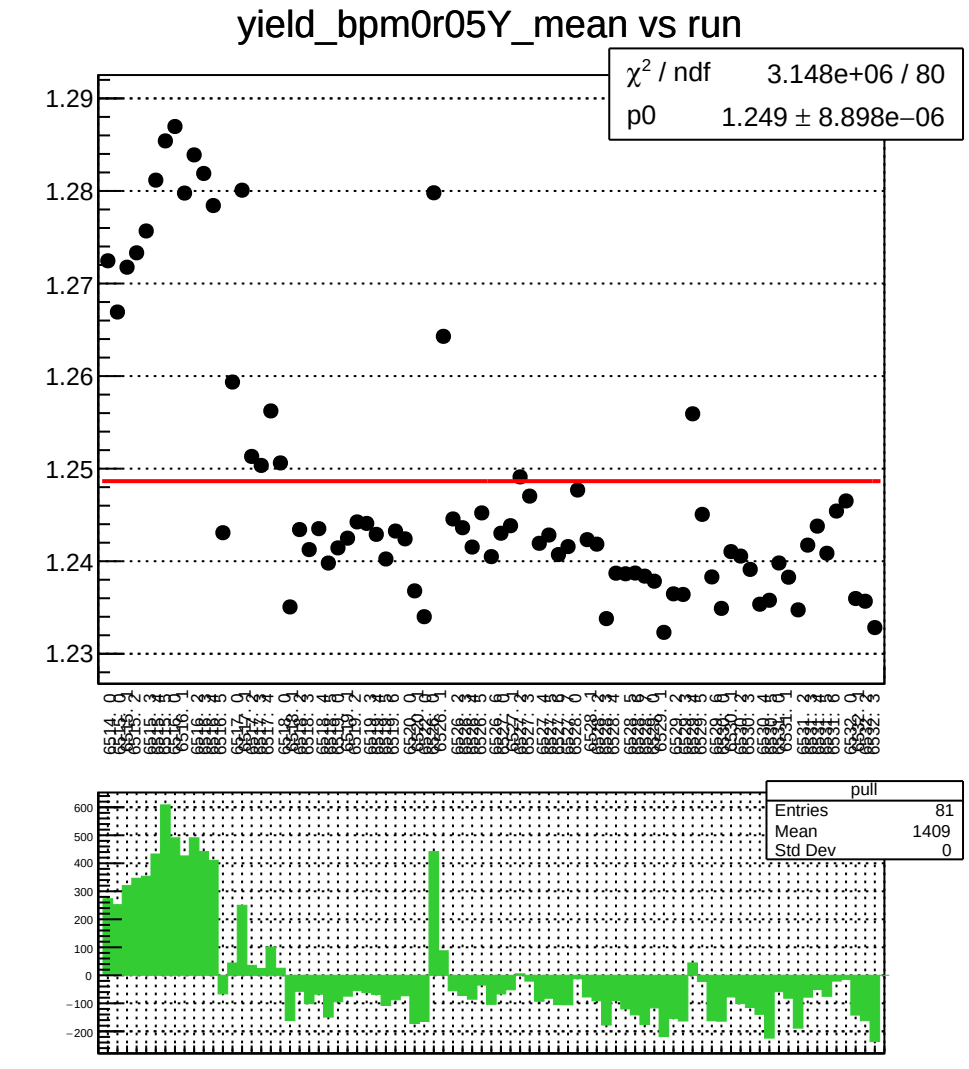

pull1D
Entries 81
Mean 1.905
Std Dev 3.633
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

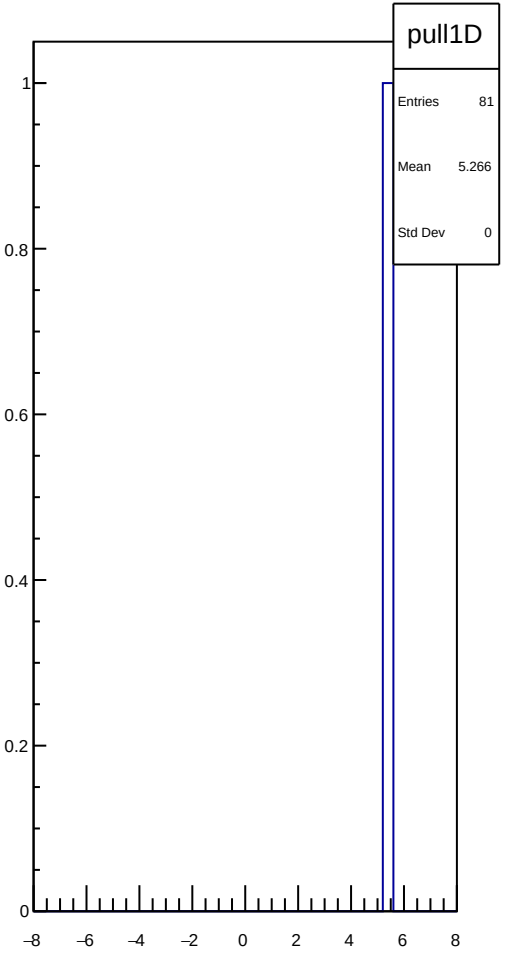

yield_bpm0r03Y_rms vs run
χ² / ndf 1.541e+05 / 80
p0 0.00635 ± 5.353e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

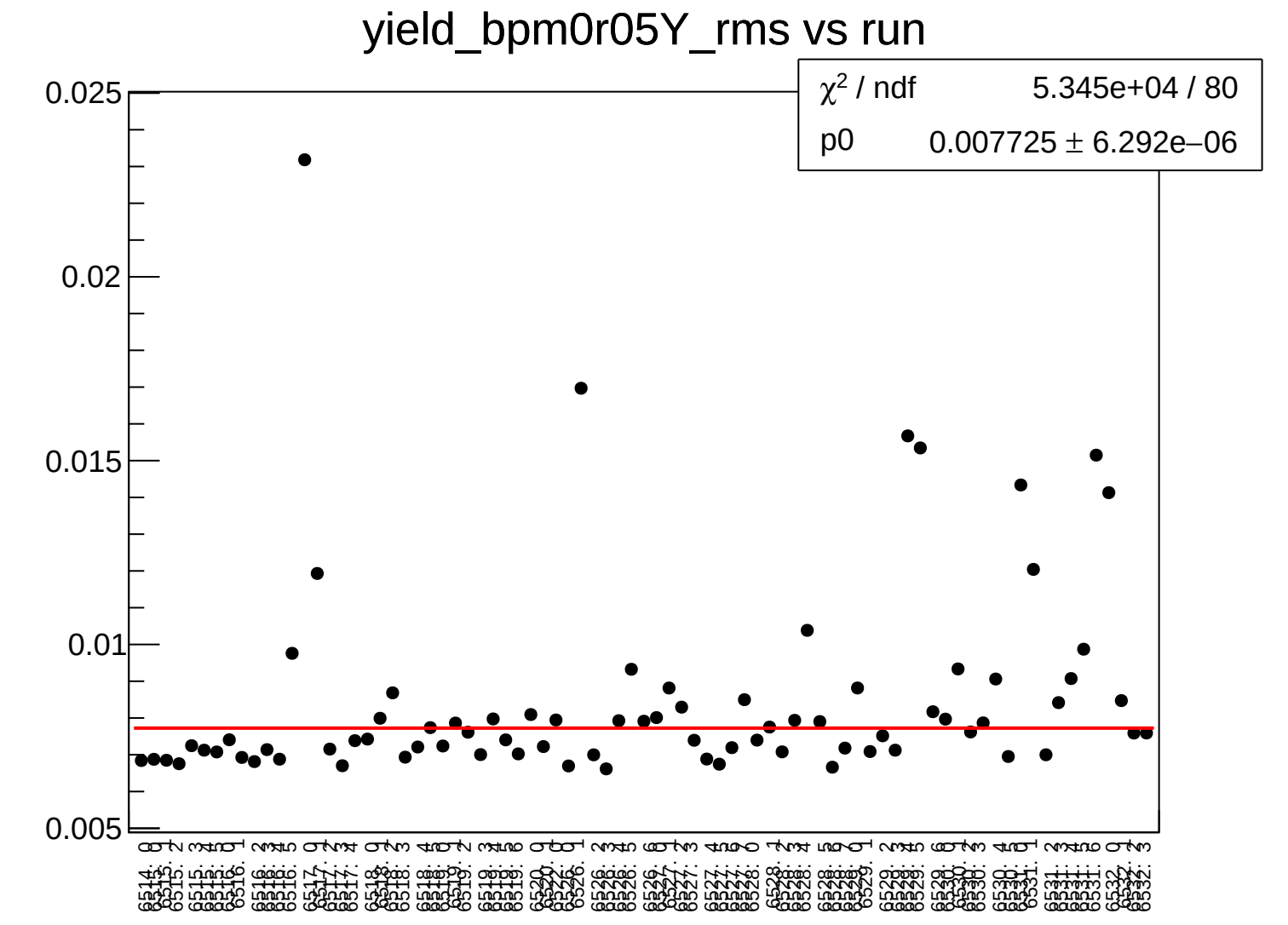

yield_bpm0r05X_mean vs run
χ² / ndf 5.502e+04 / 80
p0 −0.9594 ± 9.379e−05
−0.88
−0.9
−0.92
−0.94
−0.96
−0.98
−1
pull
Entries 81
Mean −581.9
Std Dev 0
80
60
40
20
0
−20
−40
−60

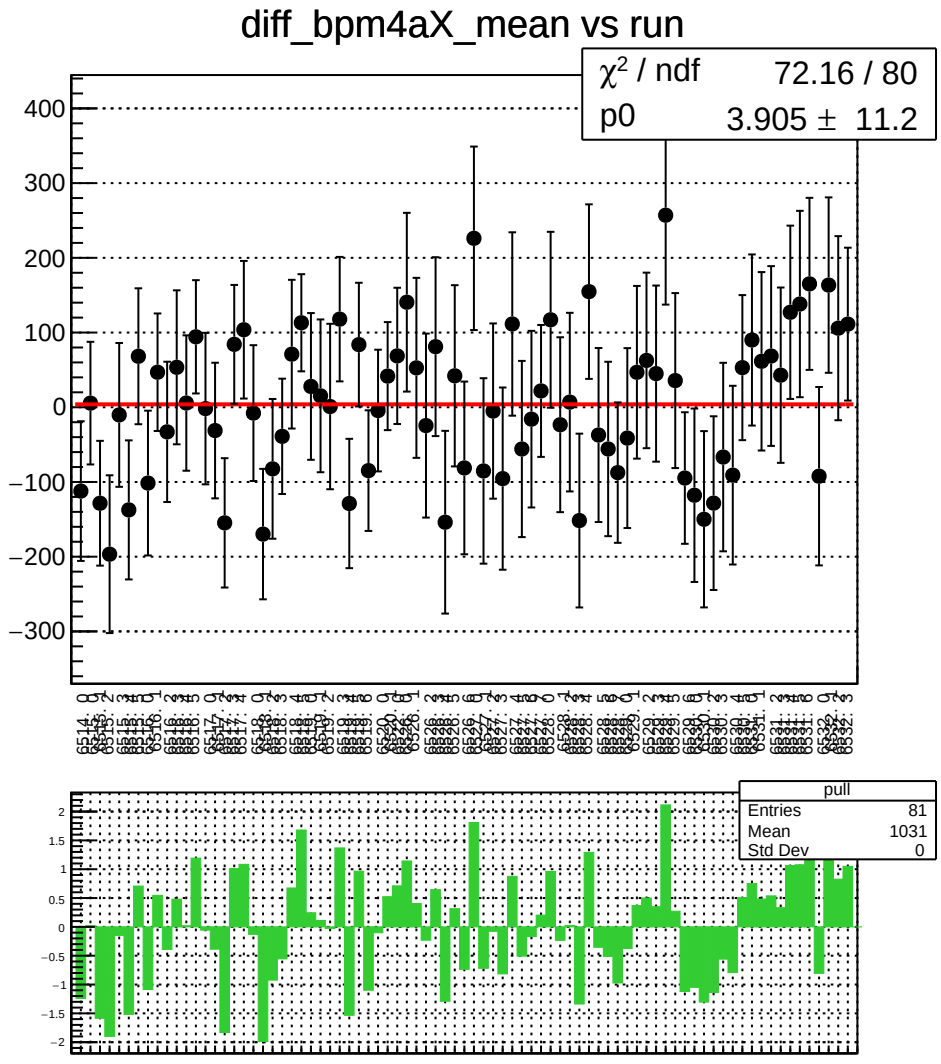

pull1D
Entries 81
Mean 1.37
Std Dev 3.912
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

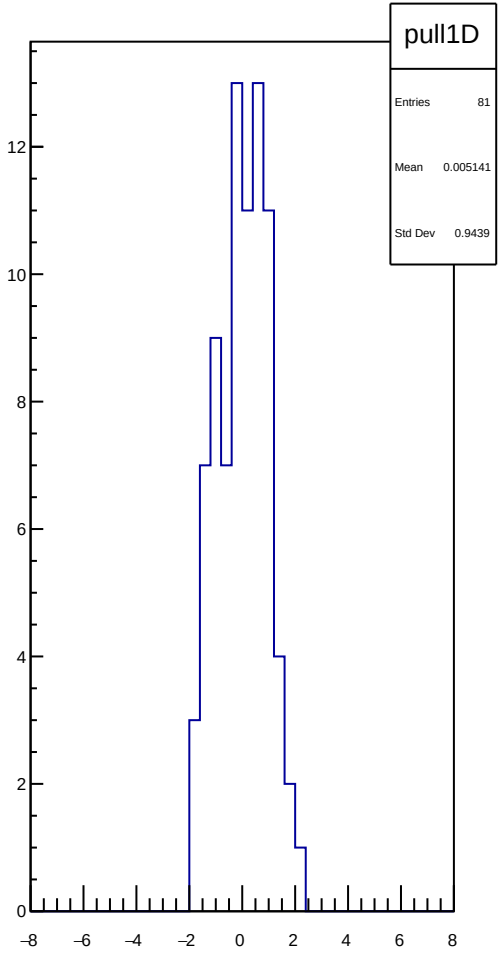

yield_bpm0r05X_rms vs run
χ² / ndf 3346 / 80
p0 0.08277 ± 6.632e–05
0.095
0.09
0.085
0.08
0.075

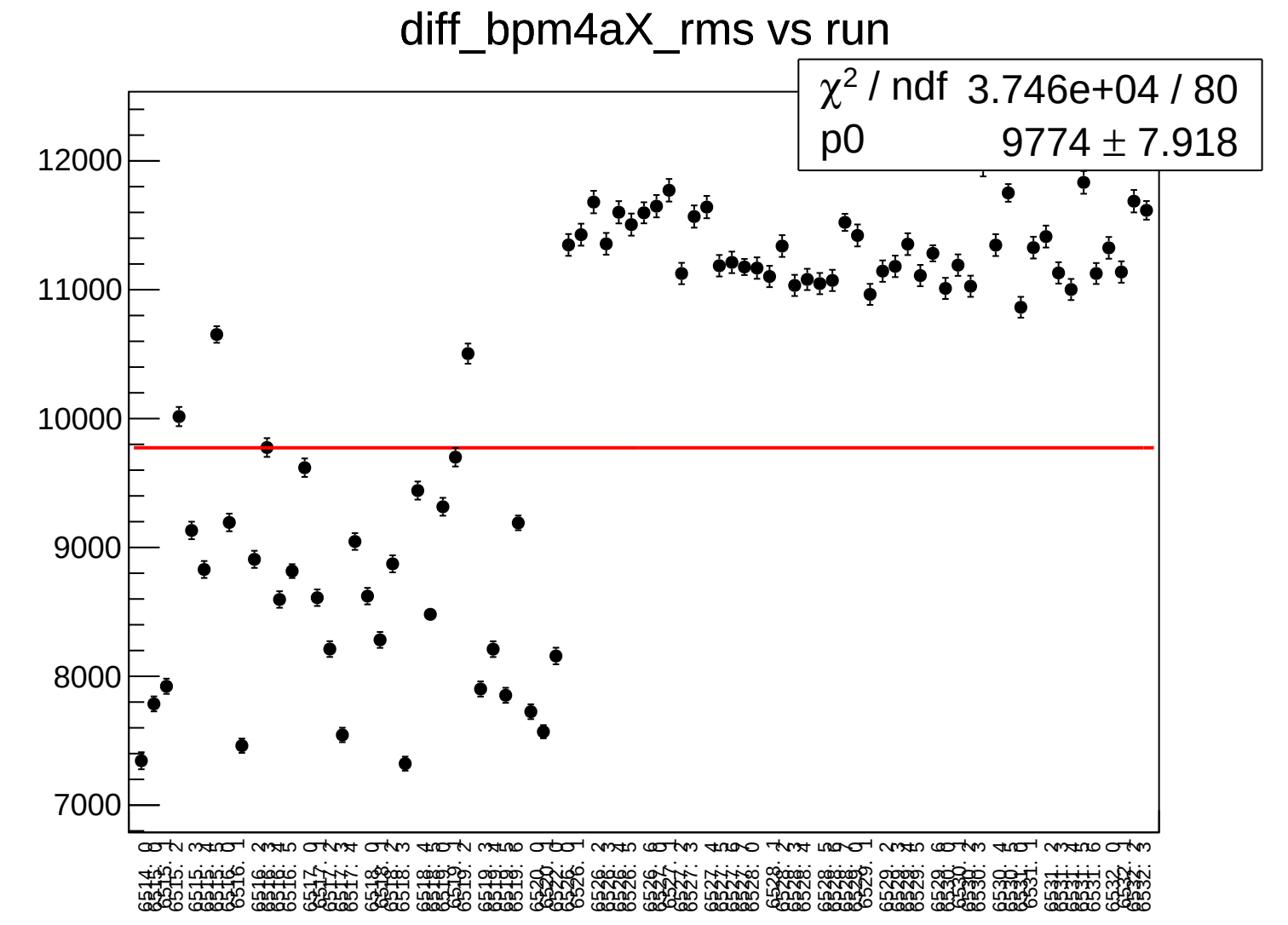

yield_bpm0r05Y_mean vs run
χ² / ndf 3.148e+06 / 80
p0 1.249 ± 8.898e−06
1.29
1.28
1.27
1.26
1.25
1.24
1.23
pull
Entries 81
Mean 1409
Std Dev 0
600
500
400
300
200
100
0
−100
−200

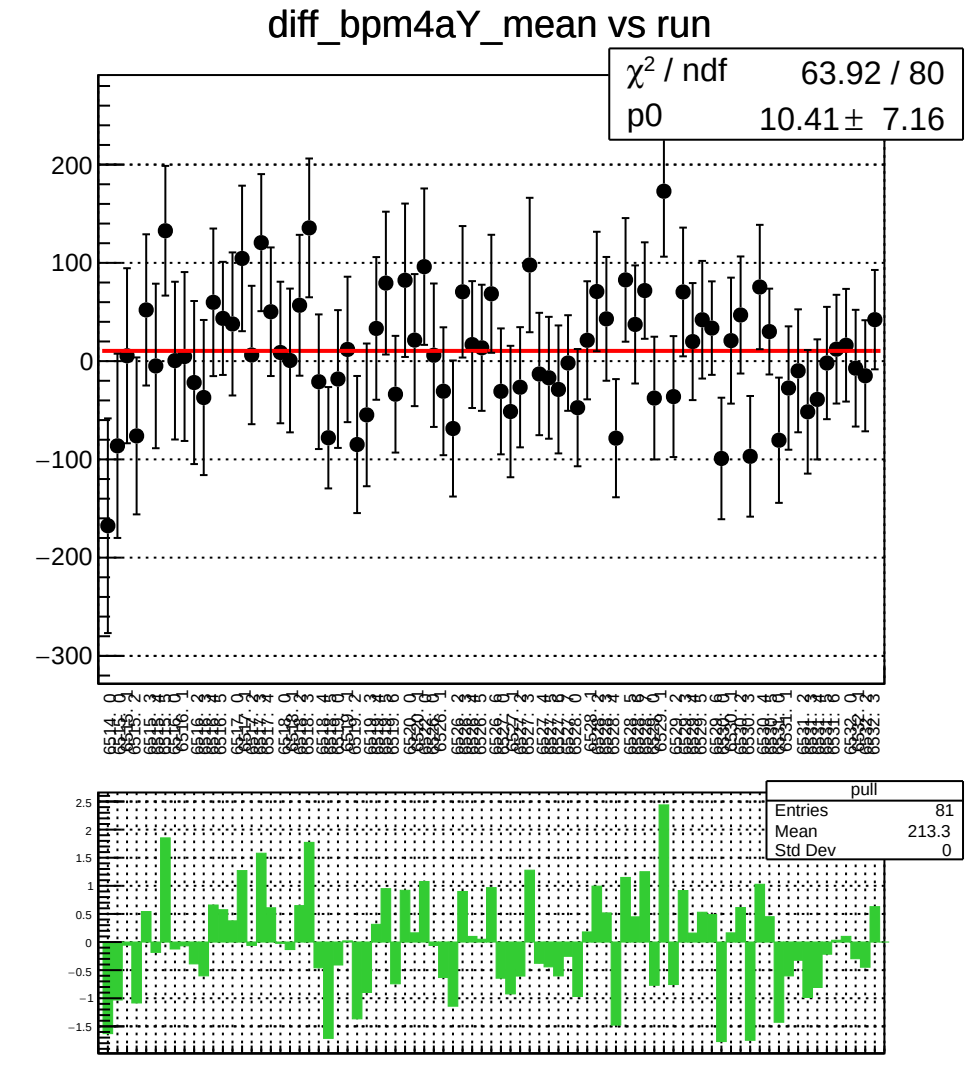

pull1D
Entries 81
Mean 5.266
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

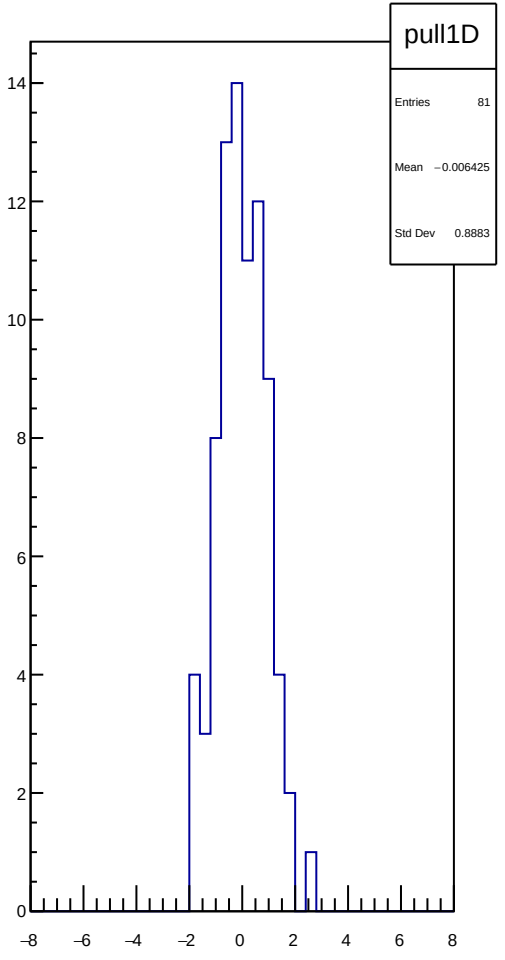

yield_bpm0r05Y_rms vs run
χ² / ndf 5.345e+04 / 80
p0 0.007725 ± 6.292e−06
0.025
0.02
0.015
0.01
0.005

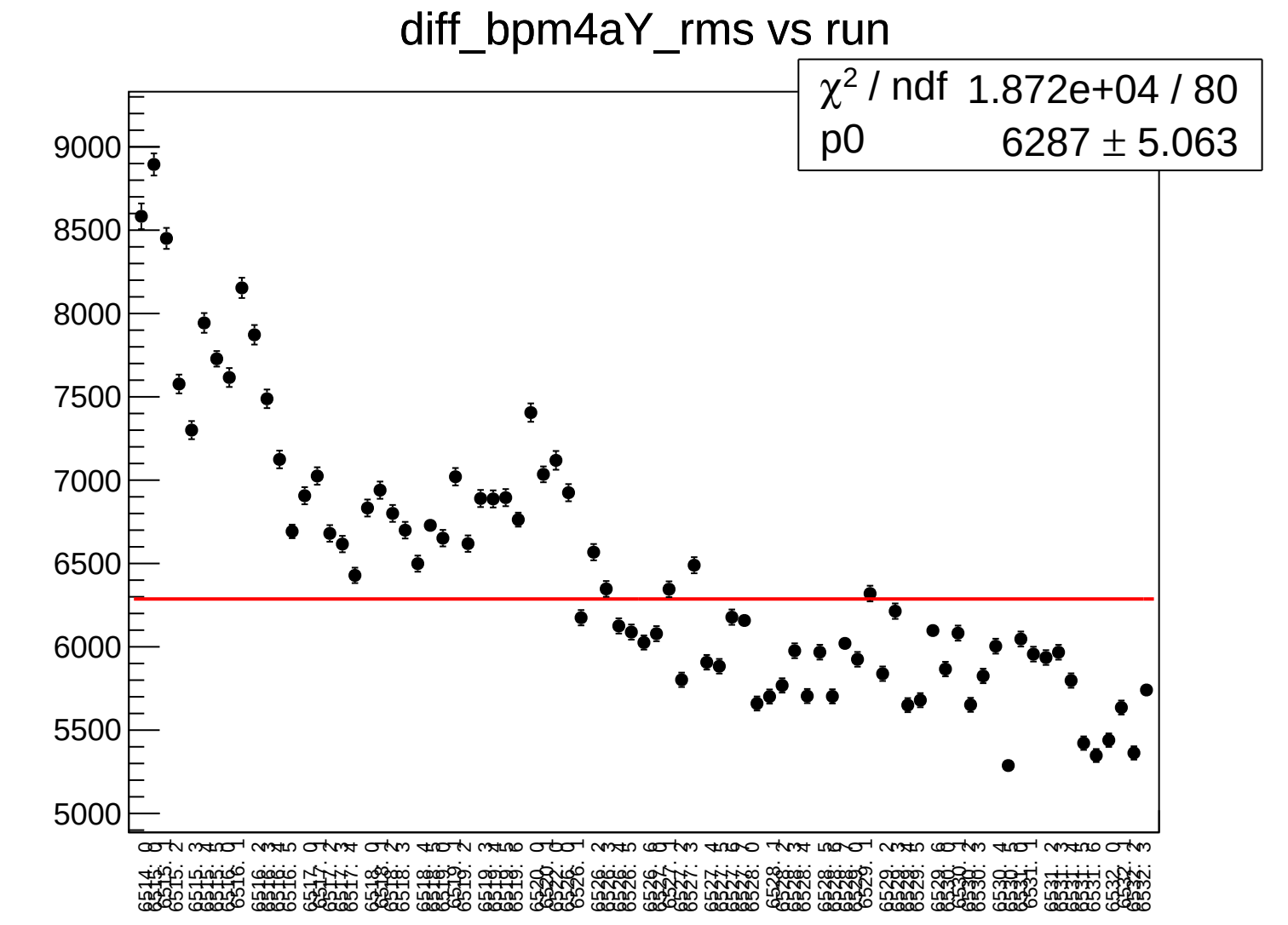

diff_bpm4aX_mean vs run
χ² / ndf 72.16 / 80
p0 3.905 ± 11.2
pull
Entries 81
Mean 1031
Std Dev 0

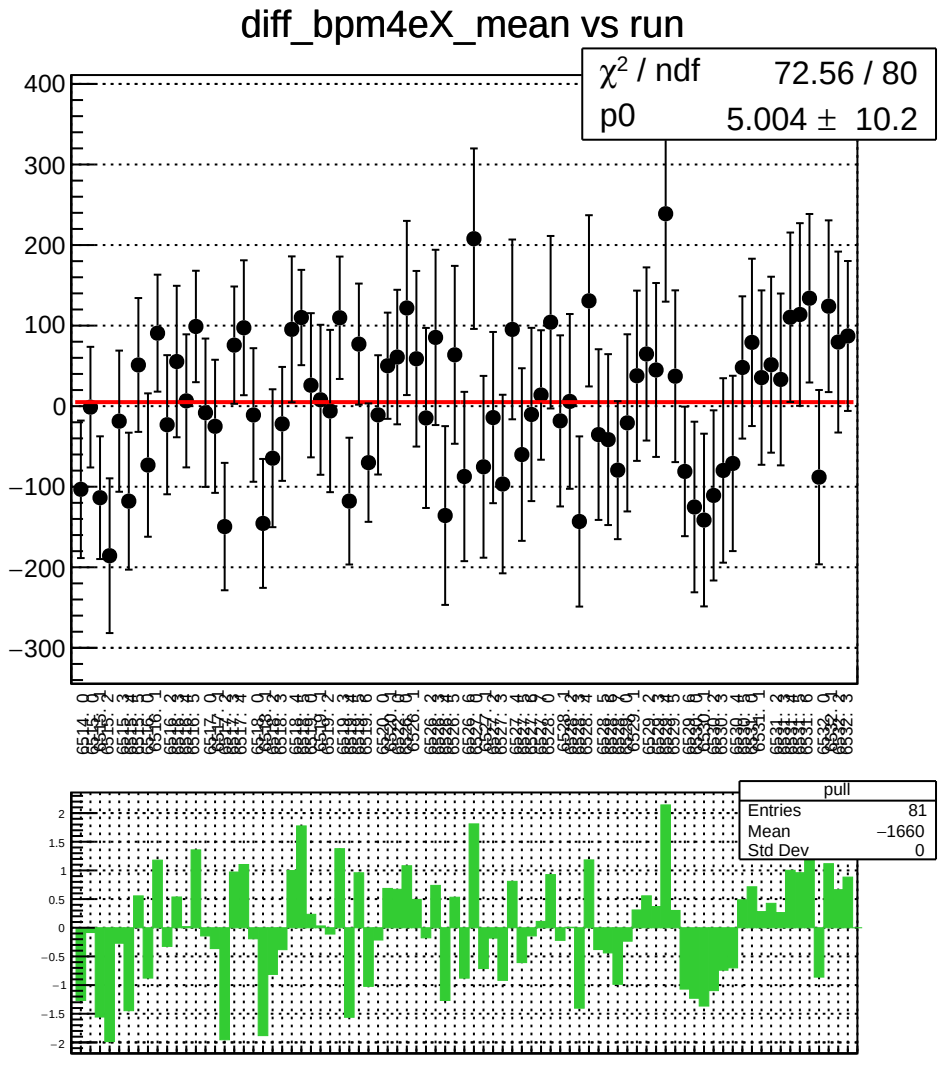

pull1D
Entries 81
Mean 0.005141
Std Dev 0.9439

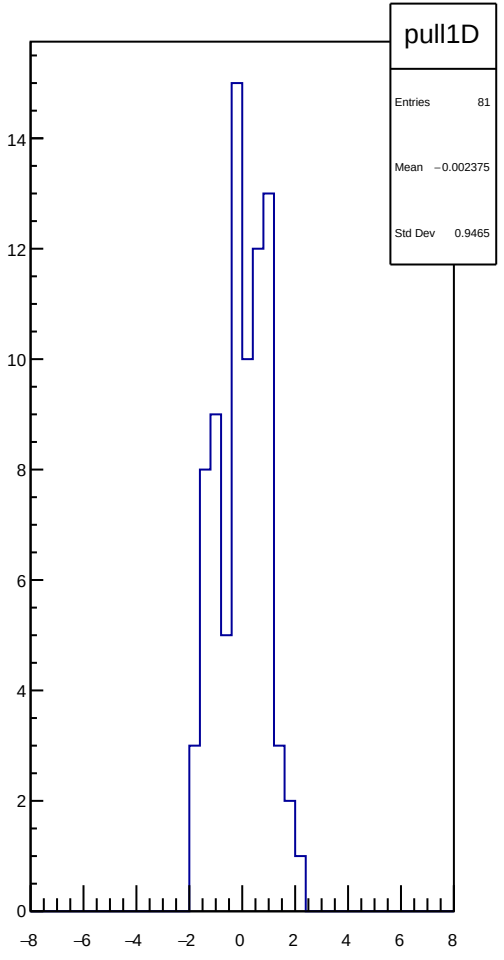

diff_bpm4aX_rms vs run
χ² / ndf 3.746e+04 / 80
p0 9774 ± 7.918
12000
11000
10000
9000
8000
7000

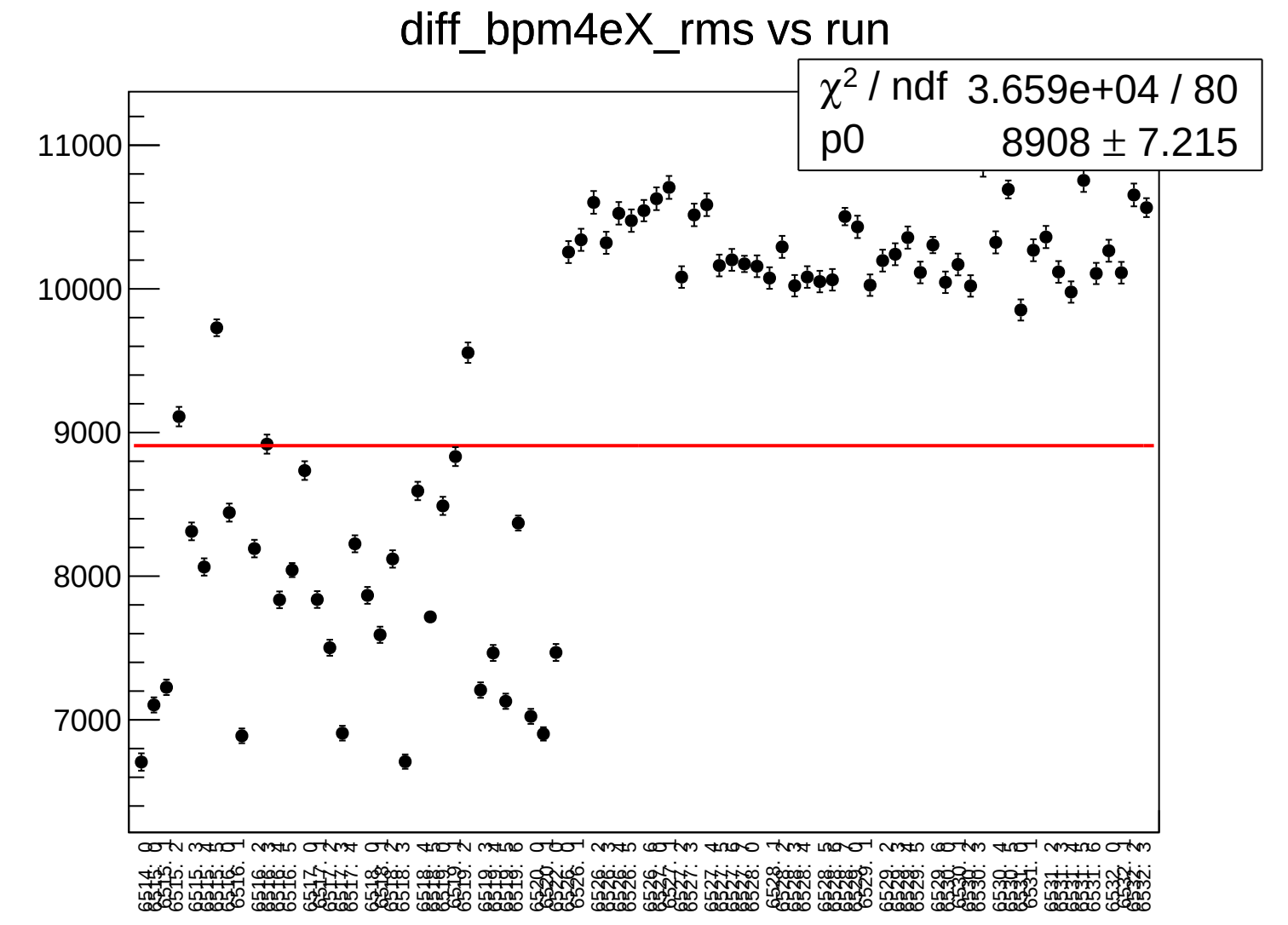

diff_bpm4aY_mean vs run
χ² / ndf 63.92 / 80
p0 10.41 ± 7.16
pull
Entries 81
Mean 213.3
Std Dev 0

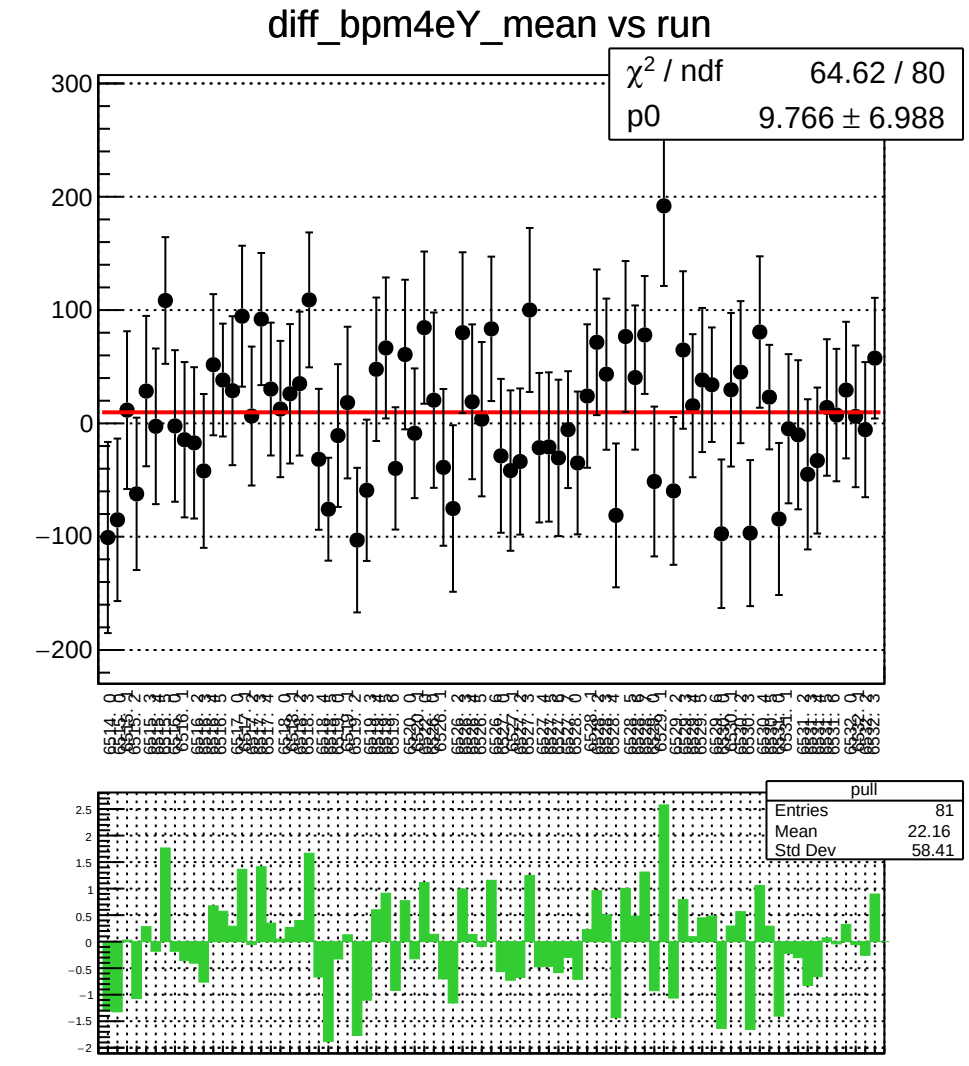

pull1D
Entries 81
Mean −0.006425
Std Dev 0.8883

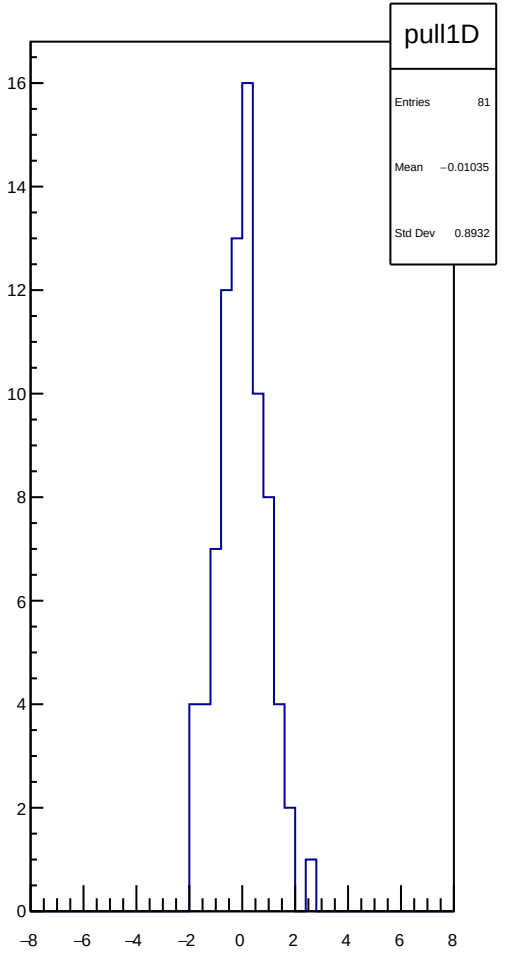

diff_bpm4aY_rms vs run
χ^2 / ndf 1.872e+04 / 80
p0 6287 ± 5.063
9000
8500
8000
7500
7000
6500
6000
5500
5000

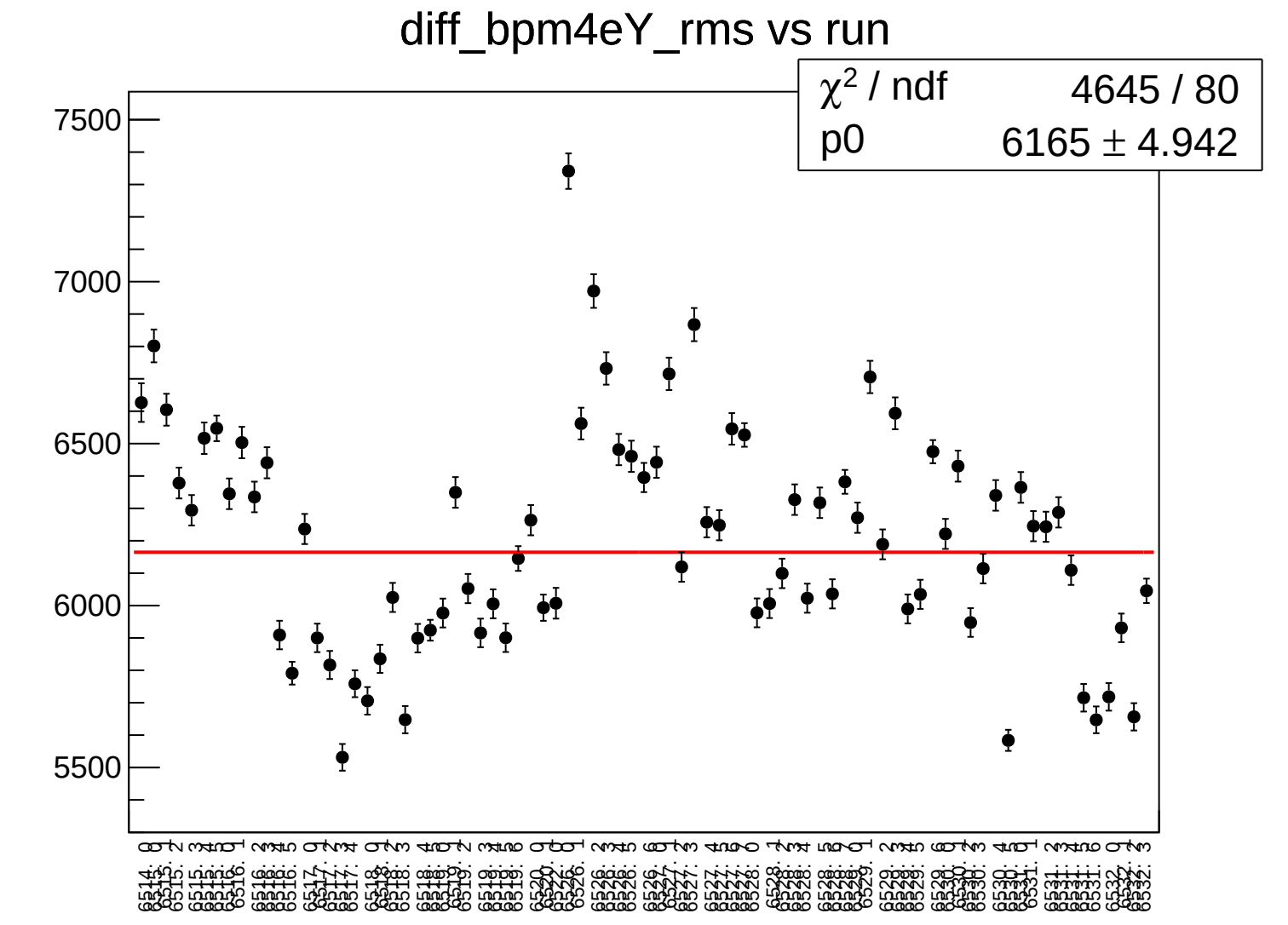

diff_bpm4eX_mean vs run
χ² / ndf 72.56 / 80
p0 5.004 ± 10.2
pull
Entries 81
Mean −1660
Std Dev 0

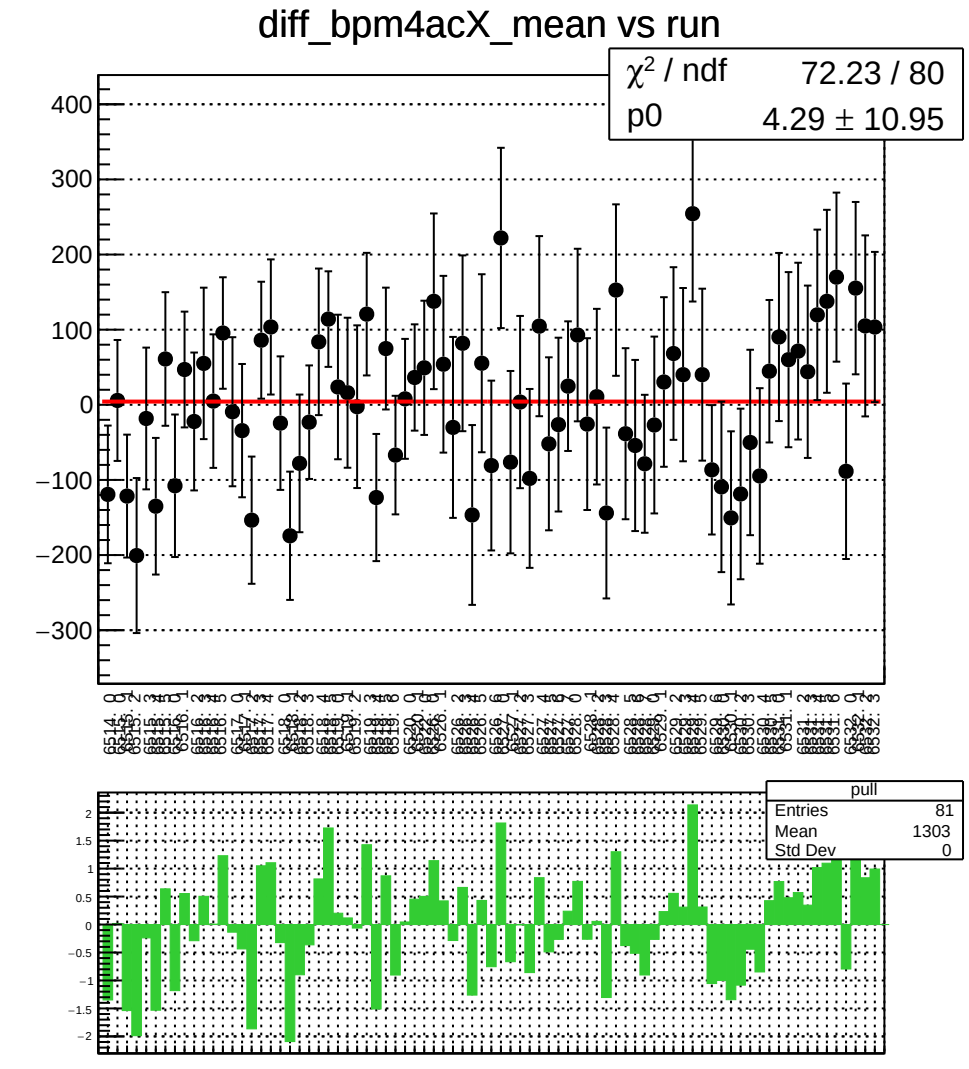

pull1D
Entries 81
Mean −0.002375
Std Dev 0.9465

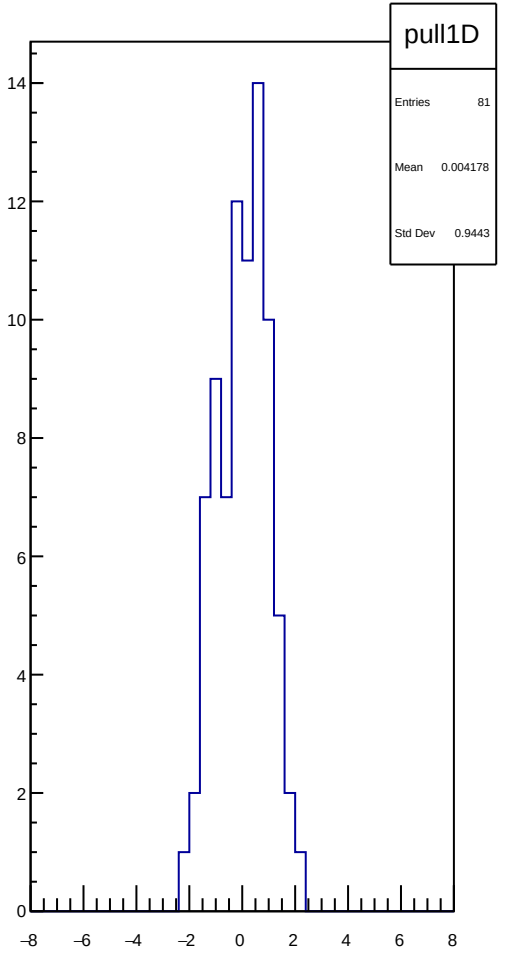

diff_bpm4eX_rms vs run
χ² / ndf 3.659e+04 / 80
p0 8908 ± 7.215
11000
10000
9000
8000
7000

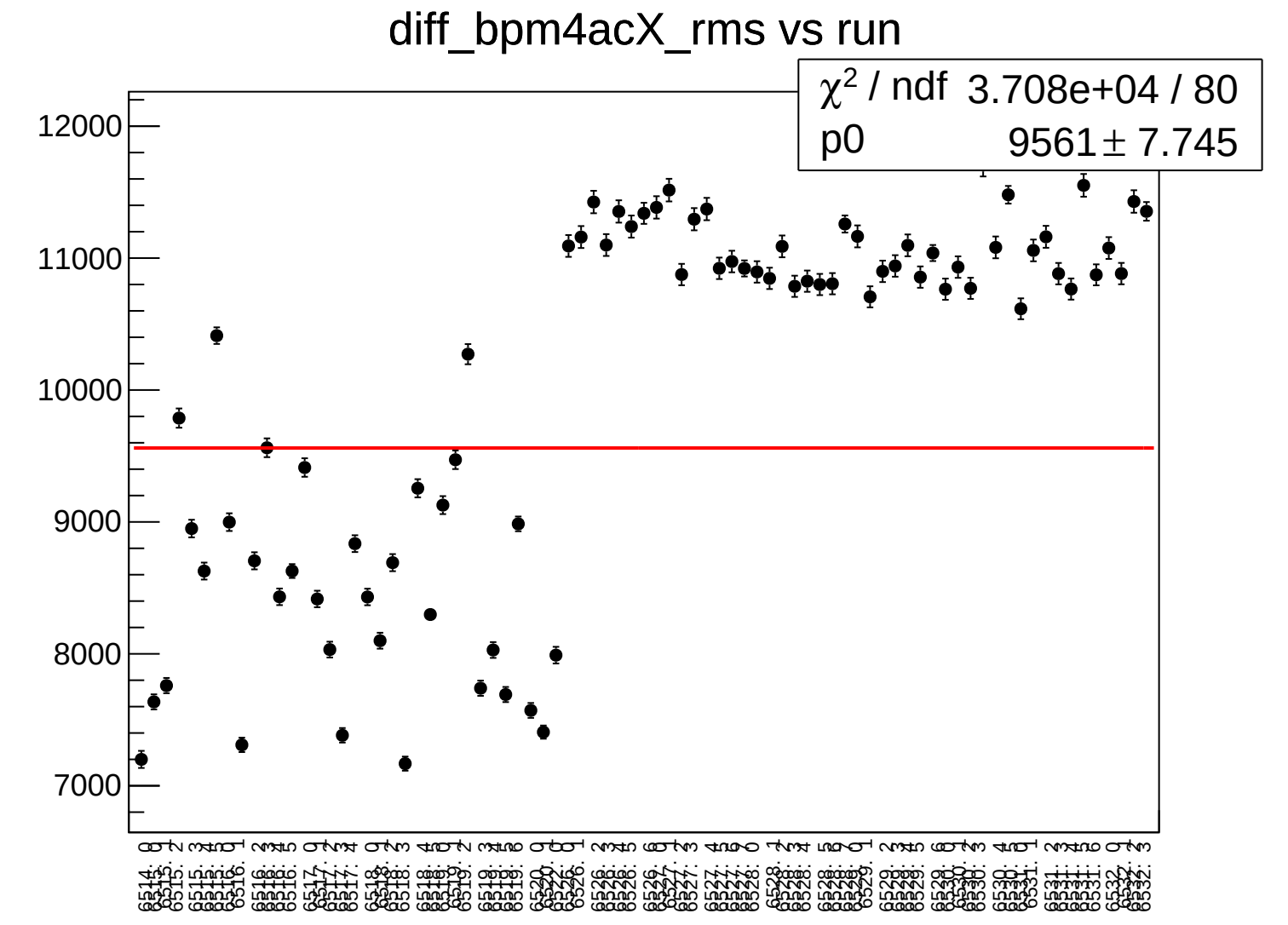

diff_bpm4eY_mean vs run
χ² / ndf 64.62 / 80
p0 9.766 ± 6.988
pull
Entries 81
Mean 22.16
Std Dev 58.41

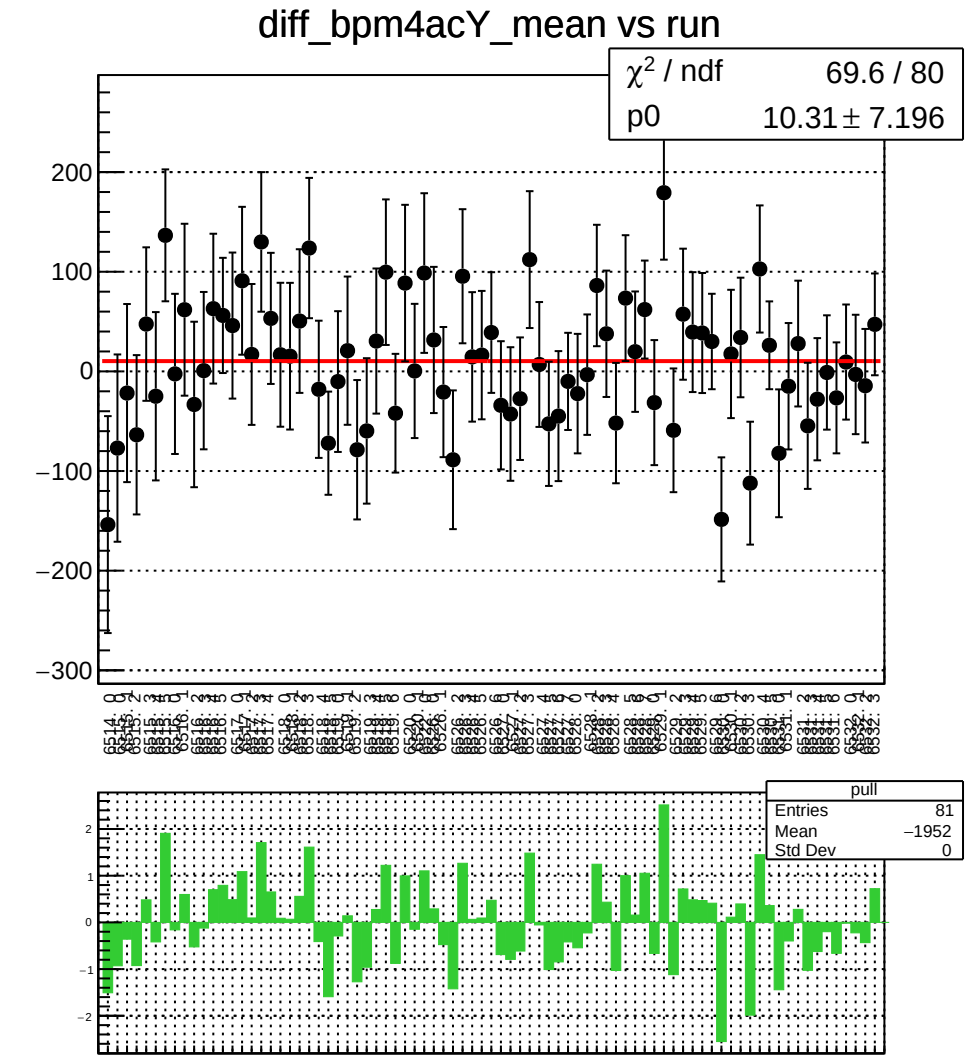

pull1D
Entries 81
Mean −0.01035
Std Dev 0.8932

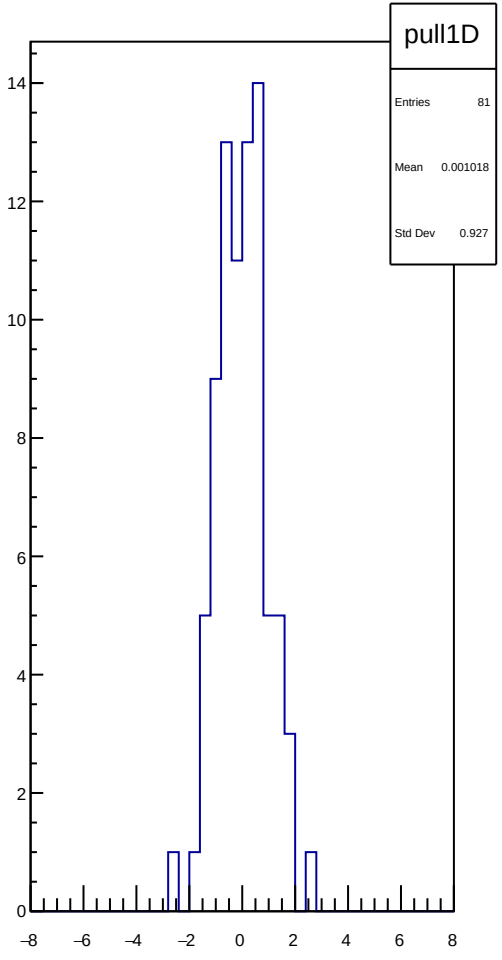

diff_bpm4eY_rms vs run
χ² / ndf 4645 / 80
p0 6165 ± 4.942
7500
7000
6500
6000
5500

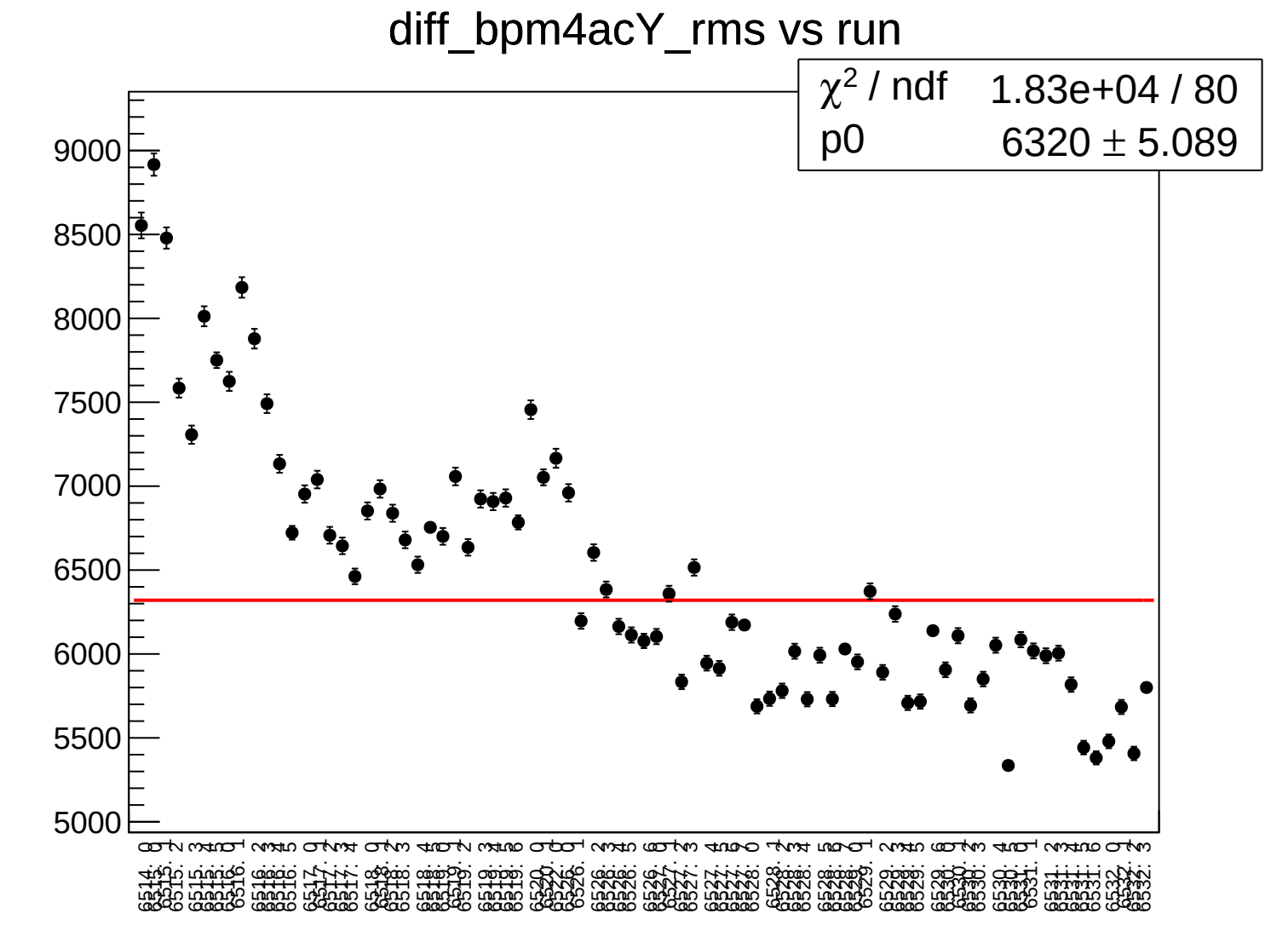

diff_bpm4acX_mean vs run
χ² / ndf 72.23 / 80
p0 4.29 ± 10.95
pull
Entries 81
Mean 1303
Std Dev 0

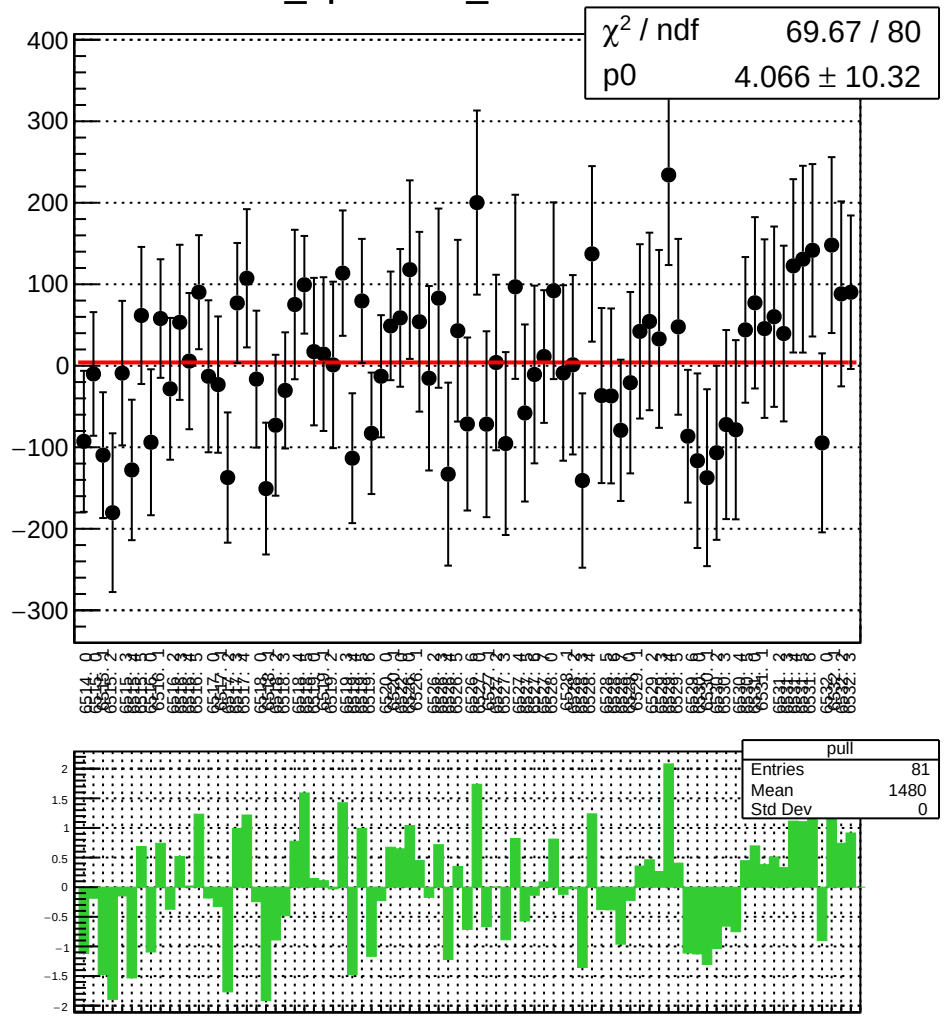

pull1D
Entries 81
Mean 0.004178
Std Dev 0.9443

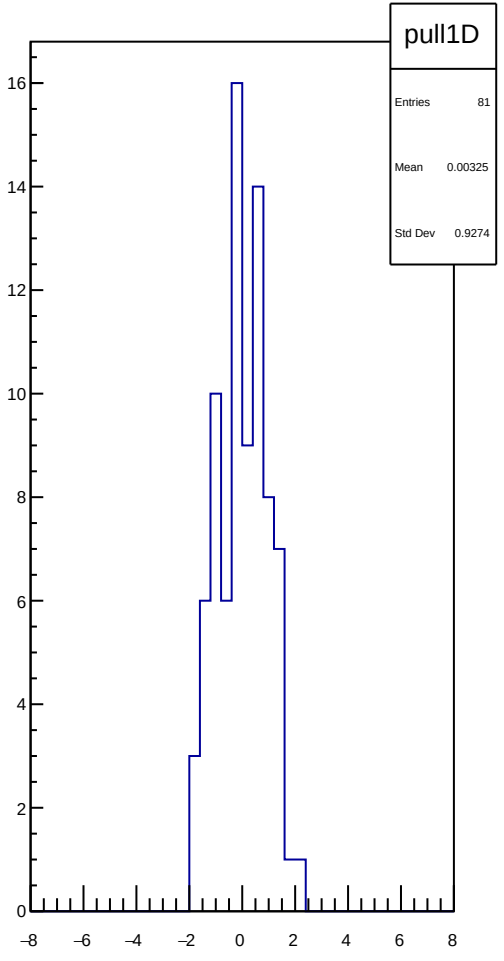

diff_bpm4acX_rms vs run
χ² / ndf 3.708e+04 / 80
p0 9561 ± 7.745
12000
11000
10000
9000
8000
7000

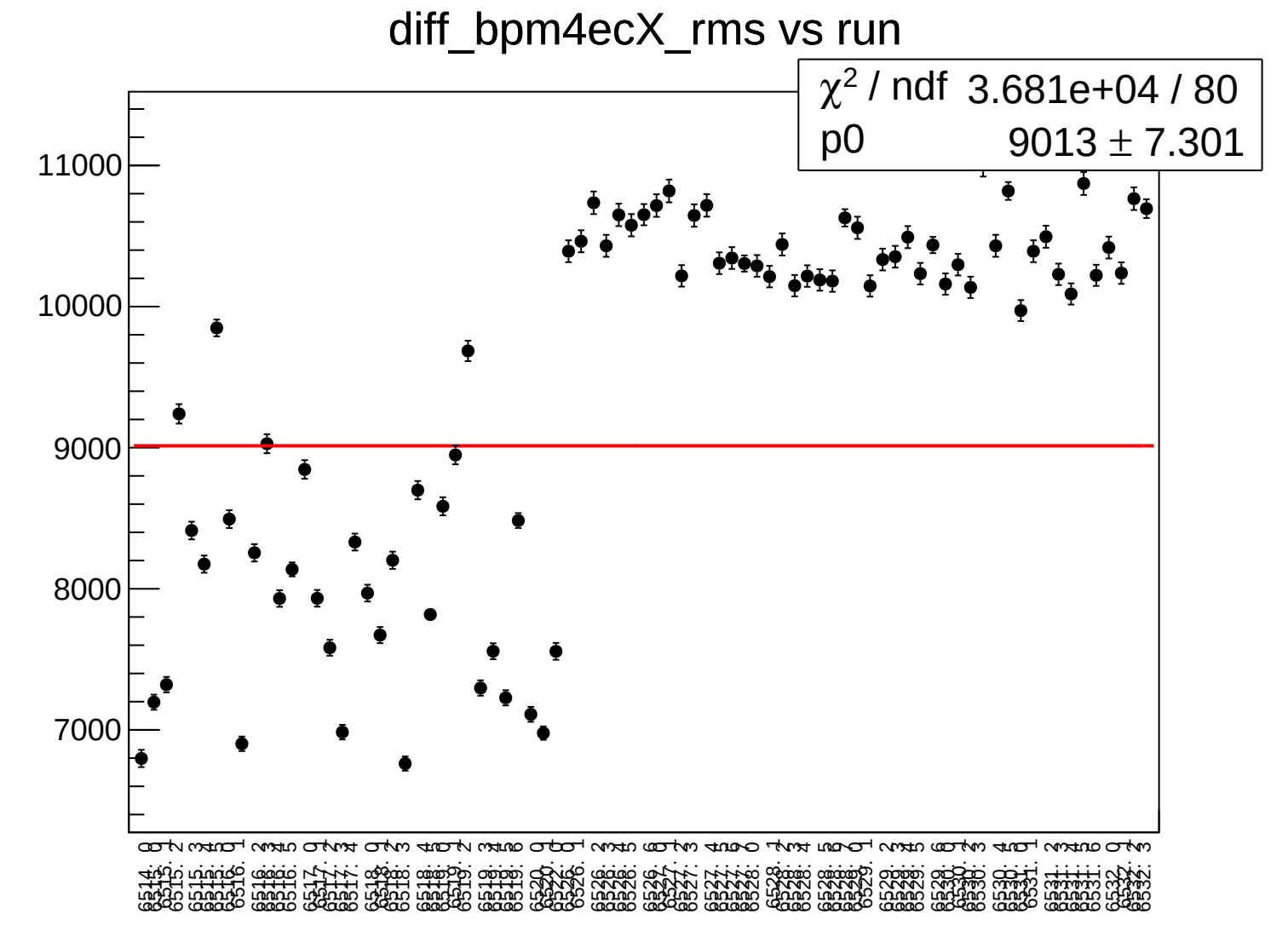

diff_bpm4acY_mean vs run
χ^2 / ndf 69.6 / 80
p0 10.31 ± 7.196
pull
Entries 81
Mean −1952
Std Dev 0

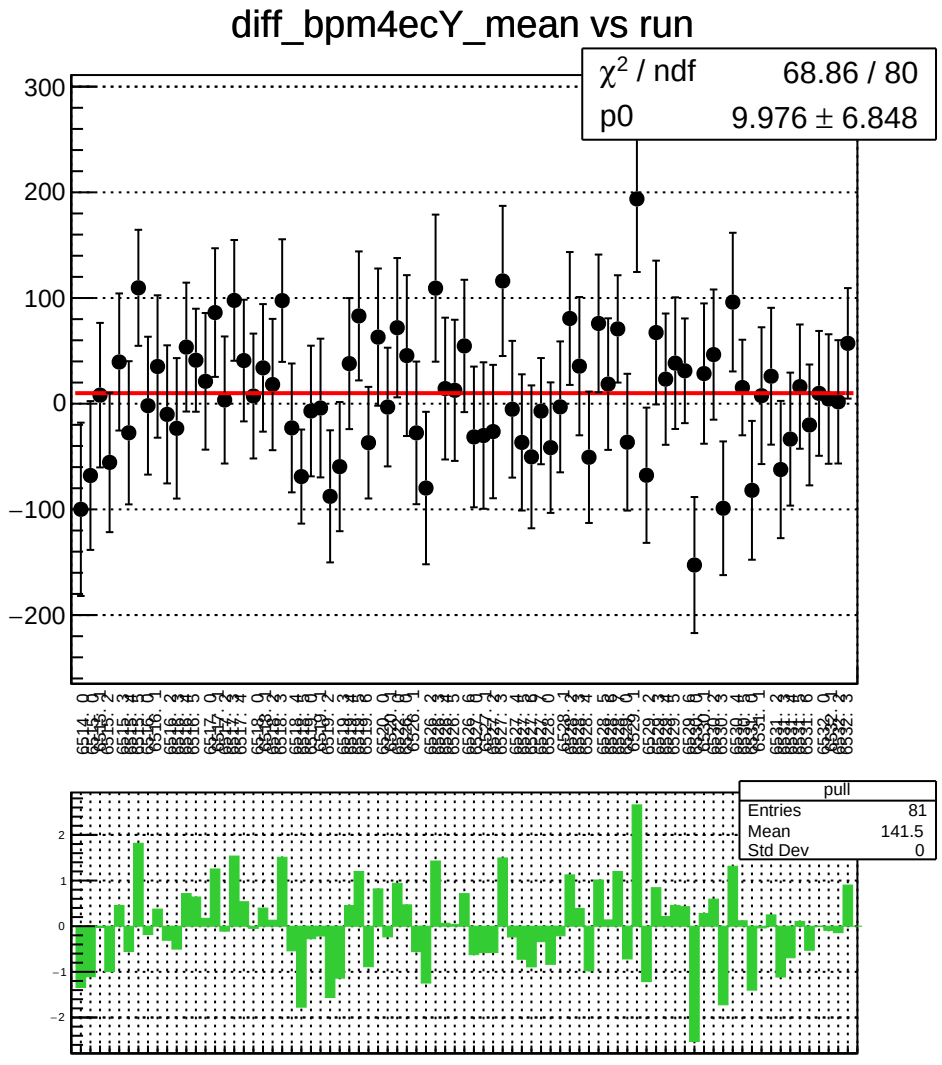

pull1D
Entries 81
Mean 0.001018
Std Dev 0.927

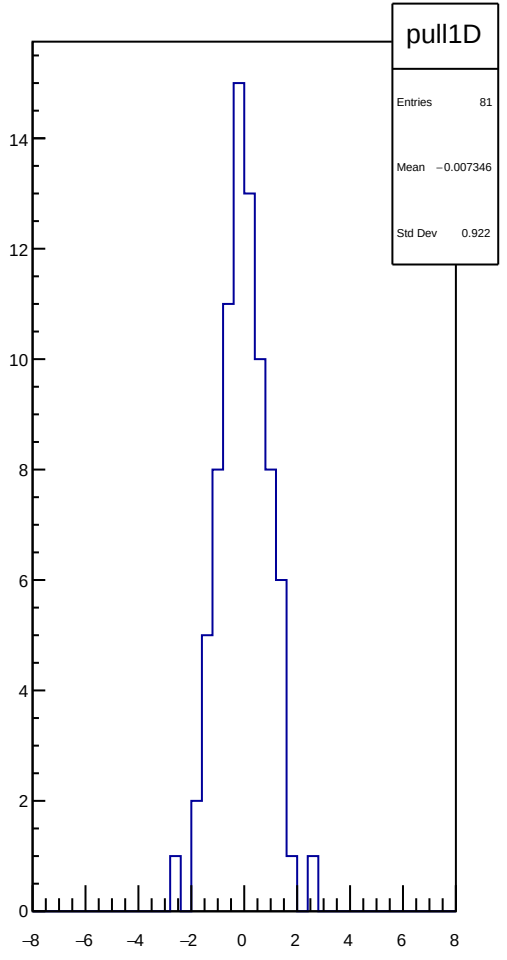

diff_bpm4acY_rms vs run
χ^2 / ndf 1.83e+04 / 80
p0 6320 ± 5.089
9000
8500
8000
7500
7000
6500
6000
5500
5000

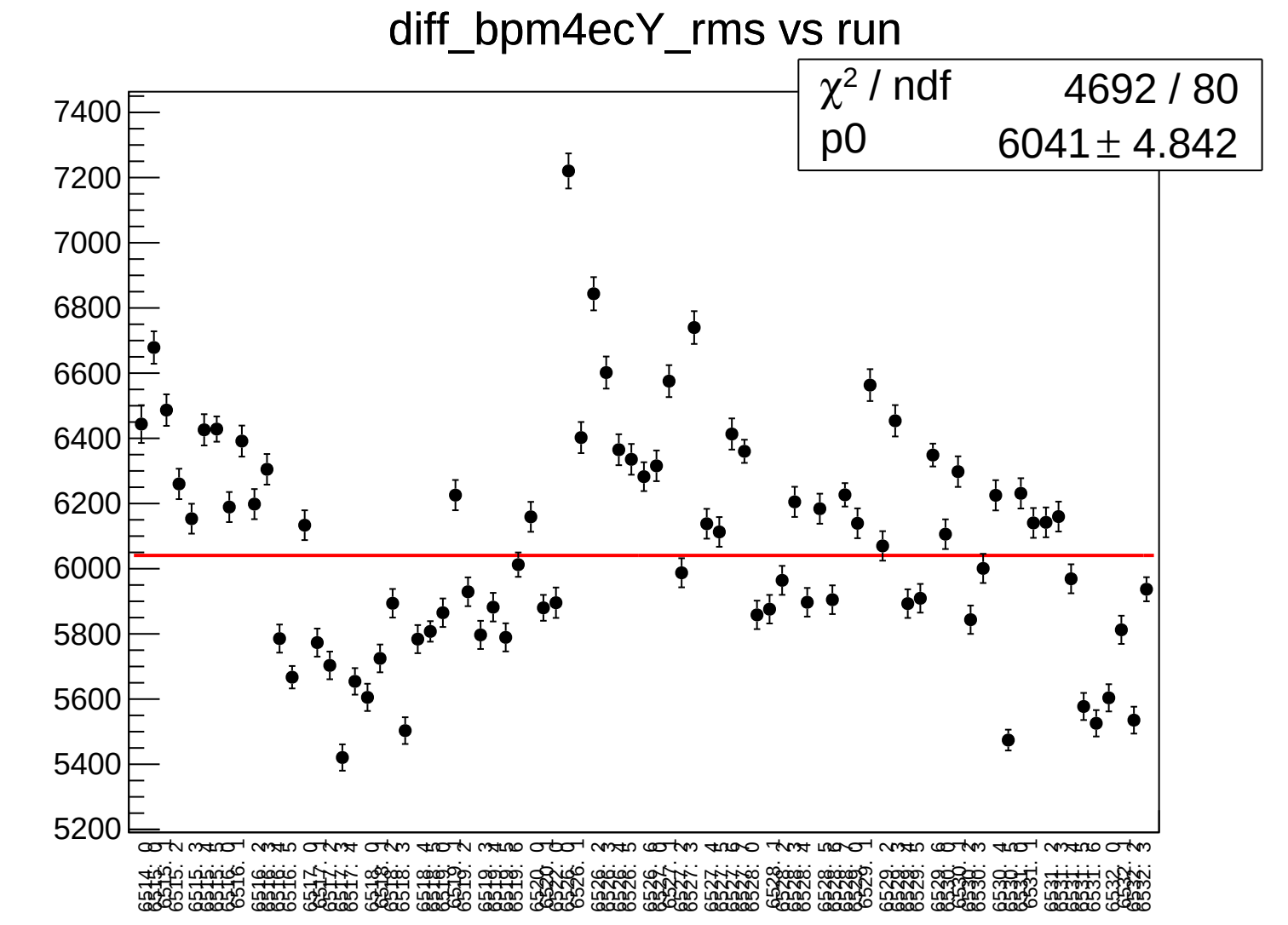

diff_bpm4ecX_mean vs run
χ^2 / ndf 69.67 / 80
p0 4.066 ± 10.32
pull
Entries 81
Mean 1480
Std Dev 0

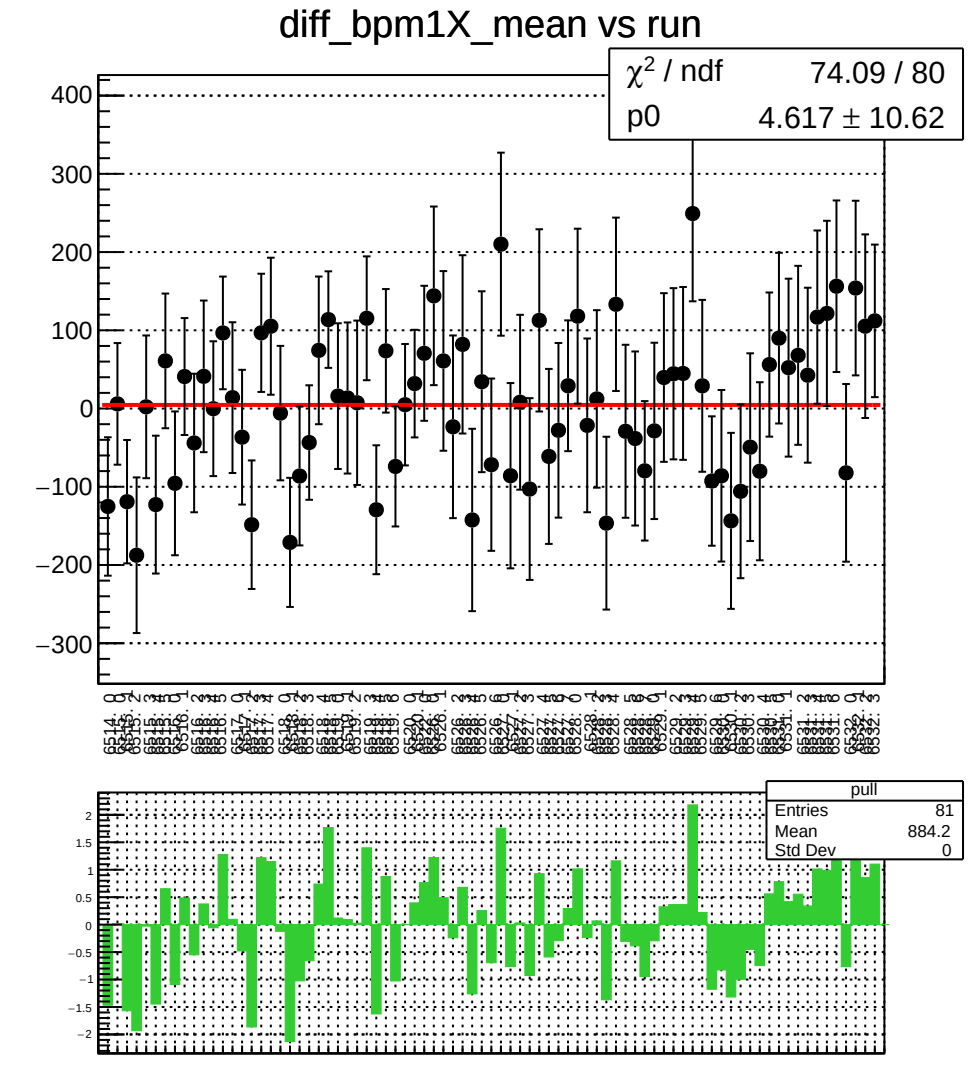

pull1D
Entries 81
Mean 0.00325
Std Dev 0.9274

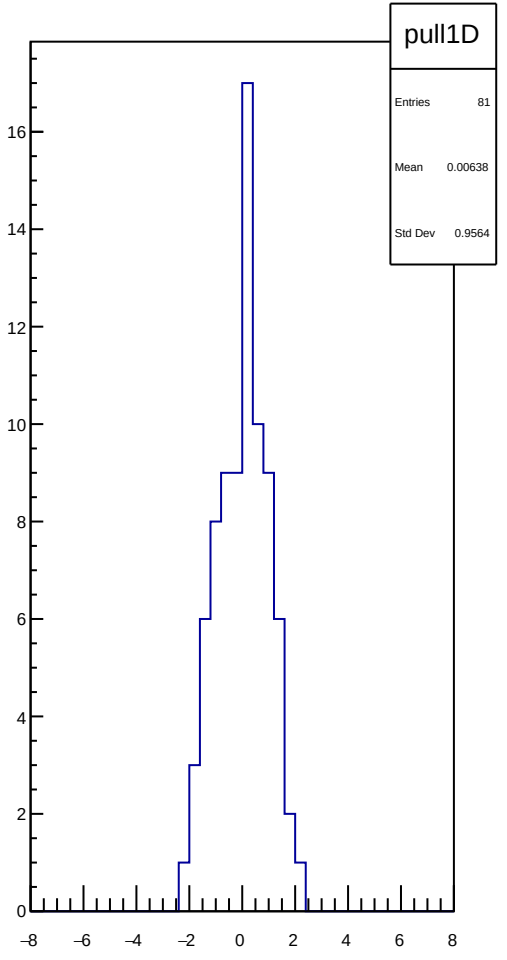

diff_bpm4ecX_rms vs run
χ² / ndf 3.681e+04 / 80
p0 9013 ± 7.301
11000
10000
9000
8000
7000

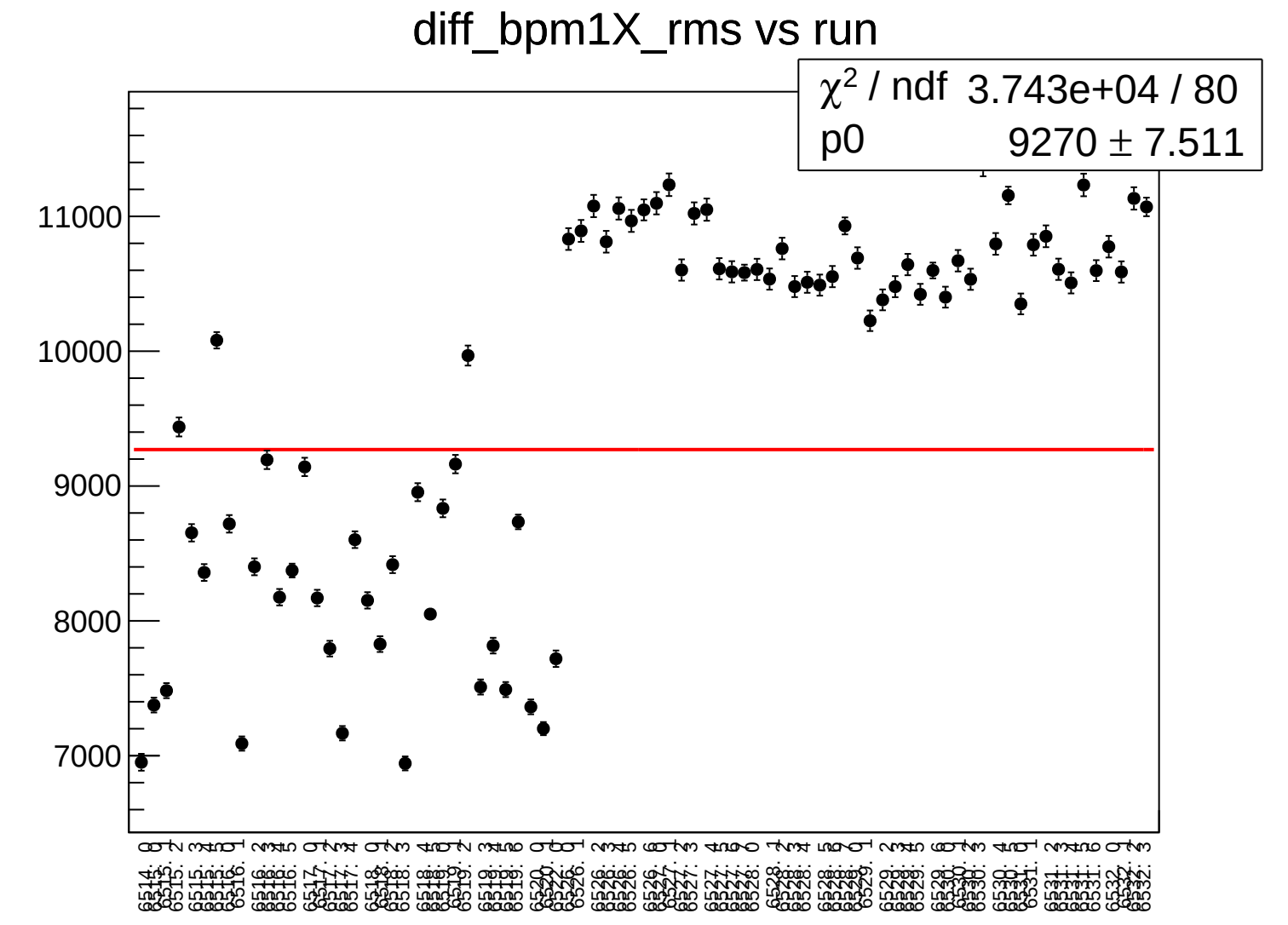

diff_bpm4ecY_mean vs run
χ² / ndf 68.86 / 80
p0 9.976 ± 6.848
300
200
100
0
−100
−200
pull
Entries 81
Mean 141.5
Std Dev 0
2
1
0
−1
−2

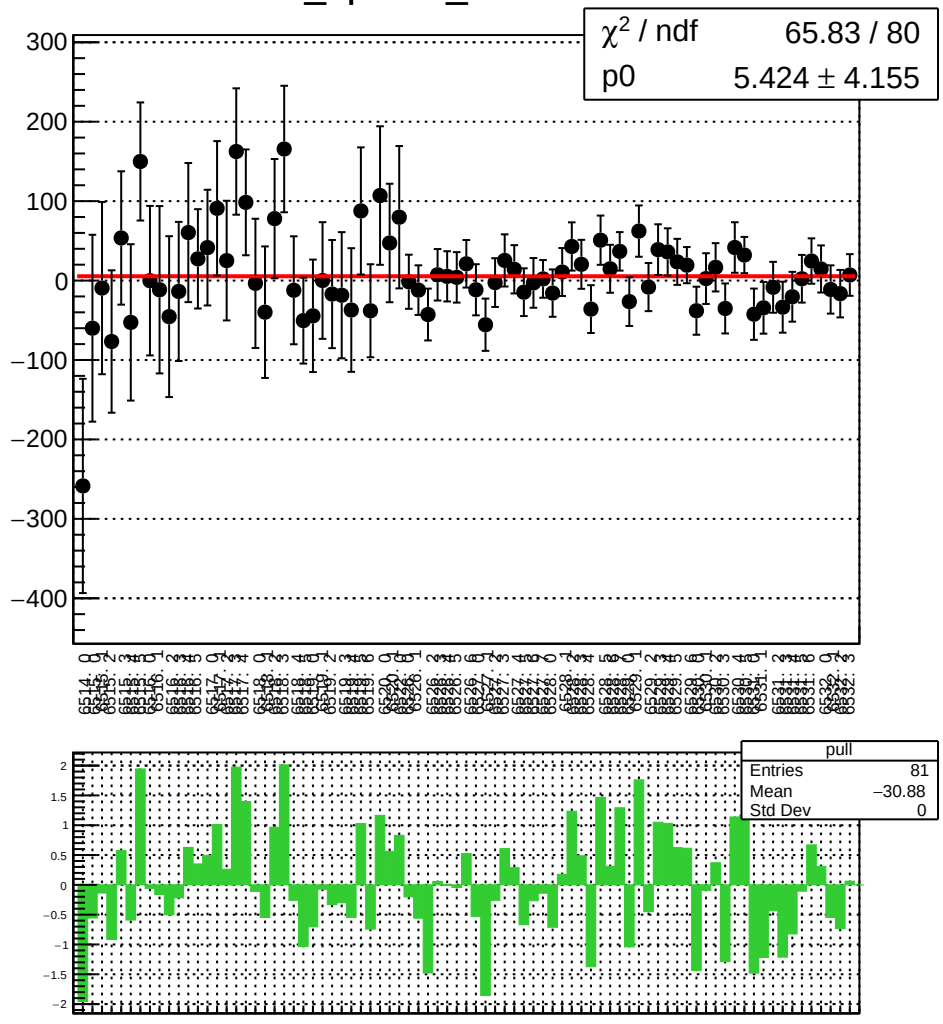

pull1D
Entries 81
Mean −0.007346
Std Dev 0.922
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

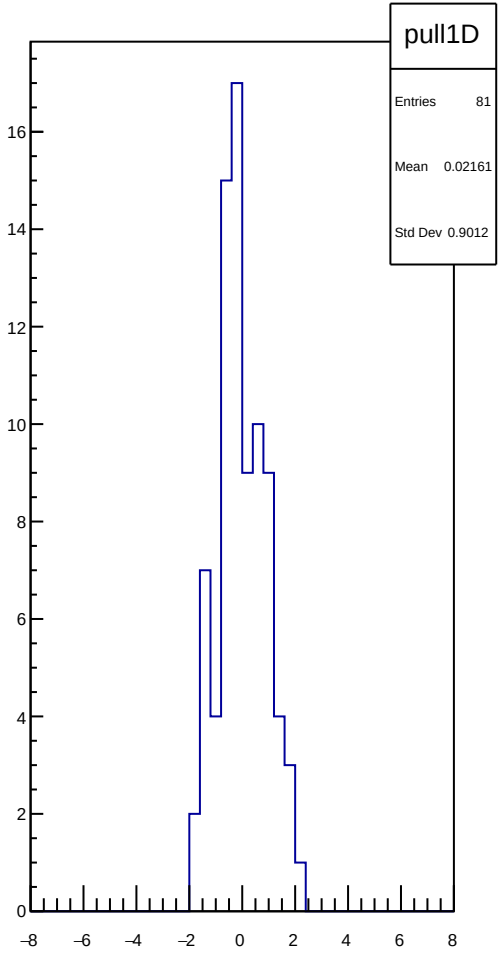

diff_bpm4ecY_rms vs run
χ² / ndf 4692 / 80
p0 6041 ± 4.842
7400
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400
5200

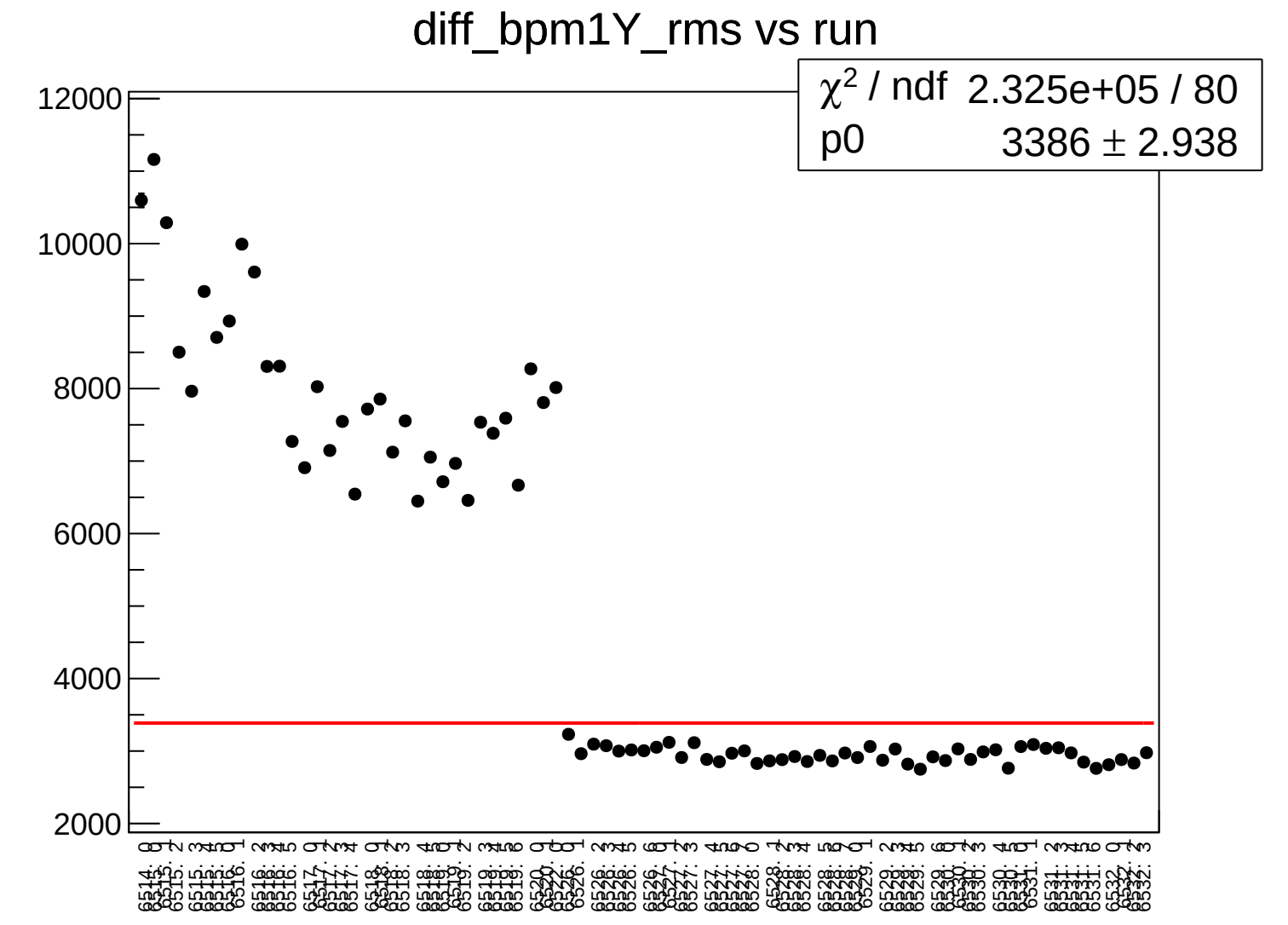

diff_bpm1X_mean vs run
χ² / ndf 74.09 / 80
p0 4.617 ± 10.62
pull
Entries 81
Mean 884.2
Std Dev 0

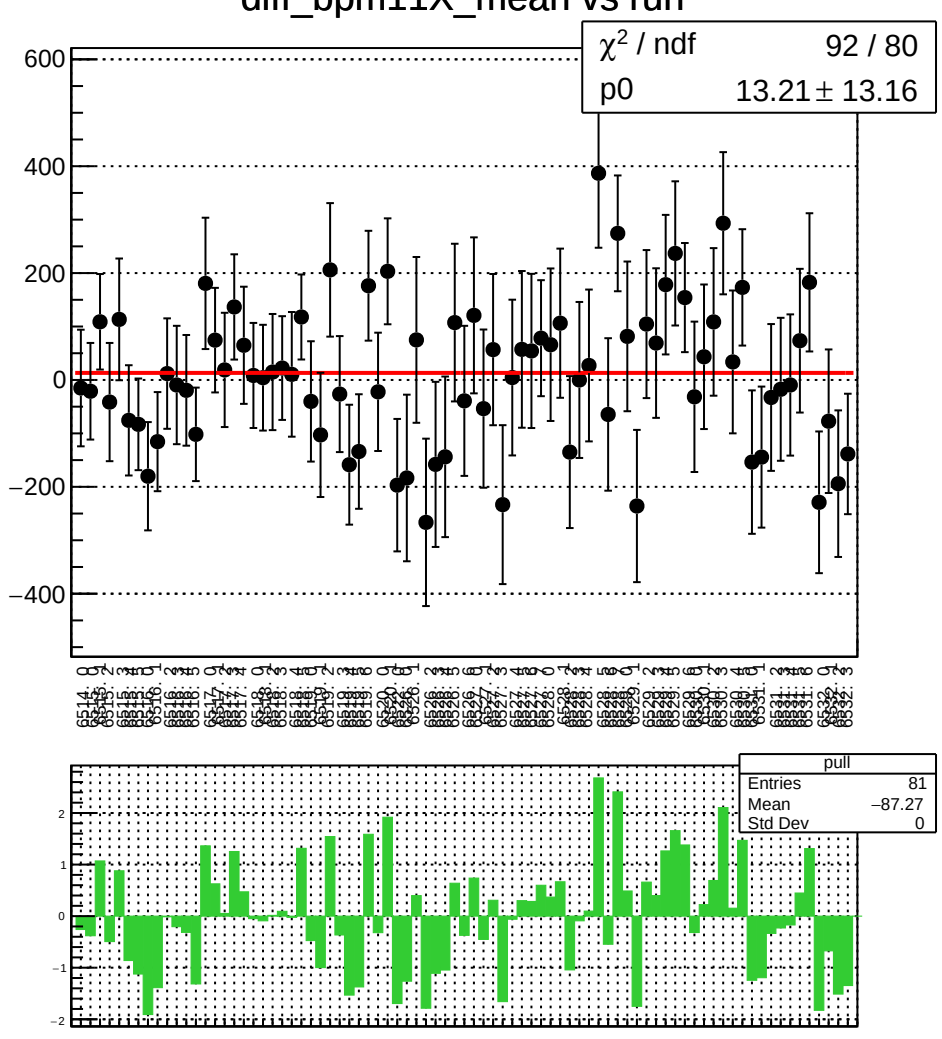

pull1D
Entries 81
Mean 0.00638
Std Dev 0.9564

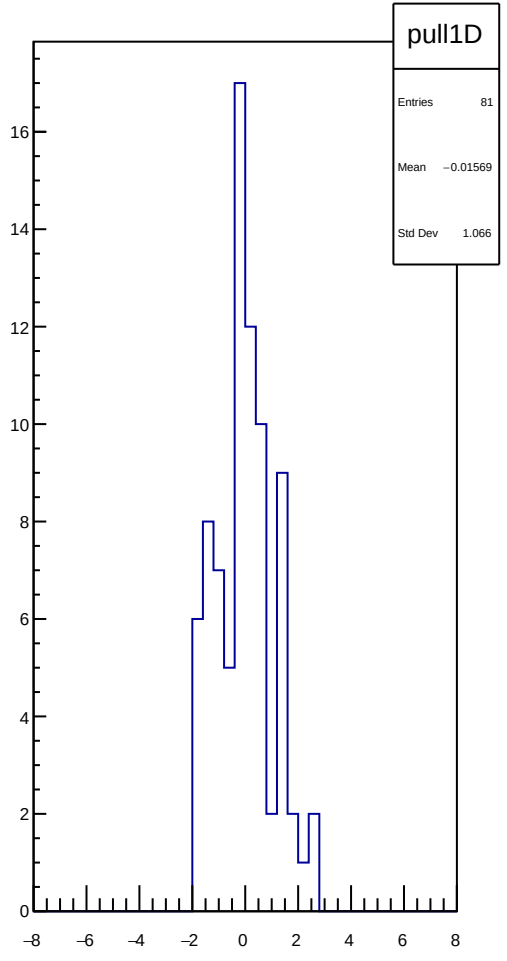

diff_bpm1X_rms vs run
χ² / ndf 3.743e+04 / 80
p0 9270 ± 7.511
11000
10000
9000
8000
7000

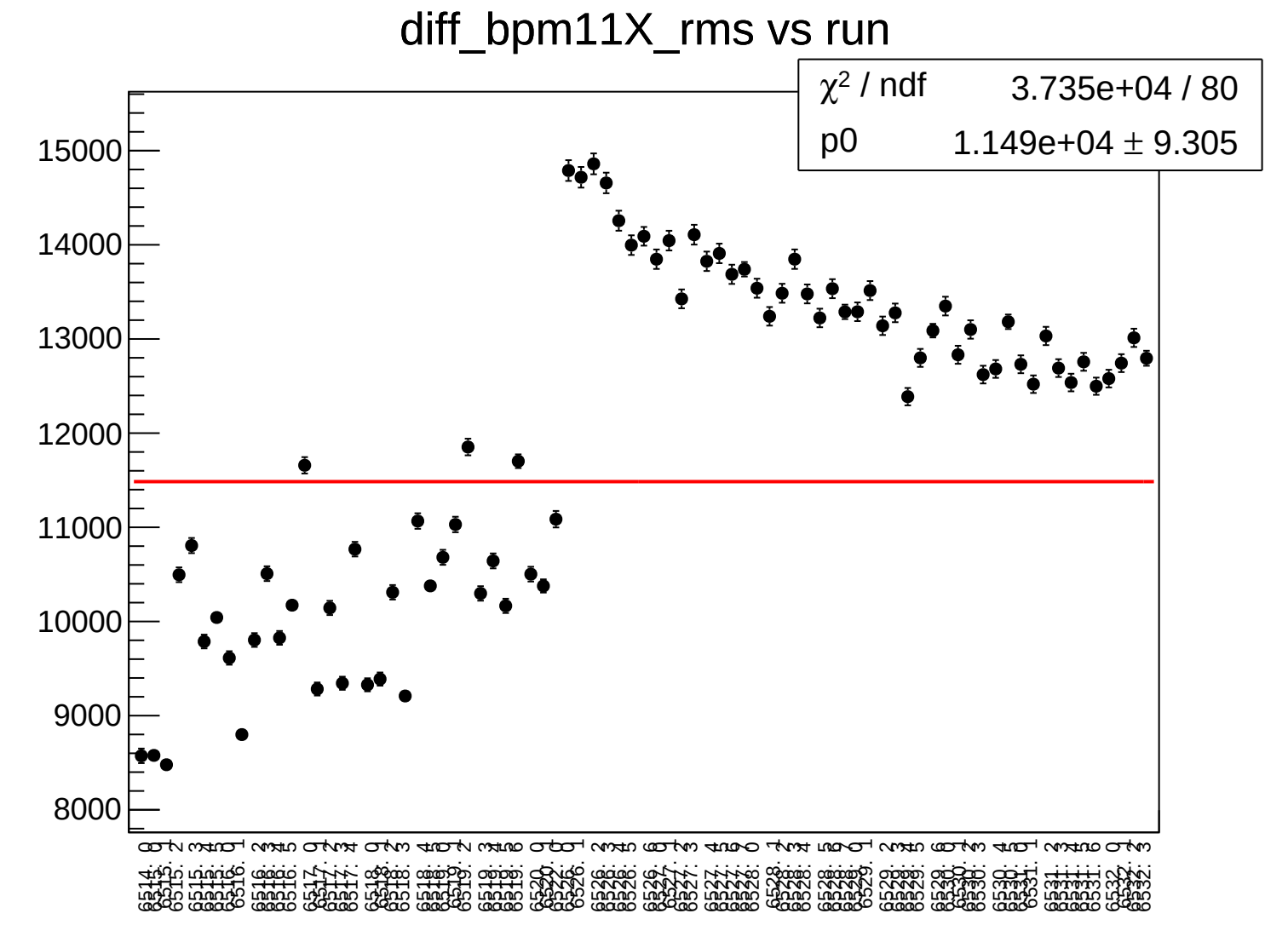

diff_bpm1Y_mean vs run
χ² / ndf 65.83 / 80
p0 5.424 ± 4.155
pull
Entries 81
Mean −30.88
Std Dev 0

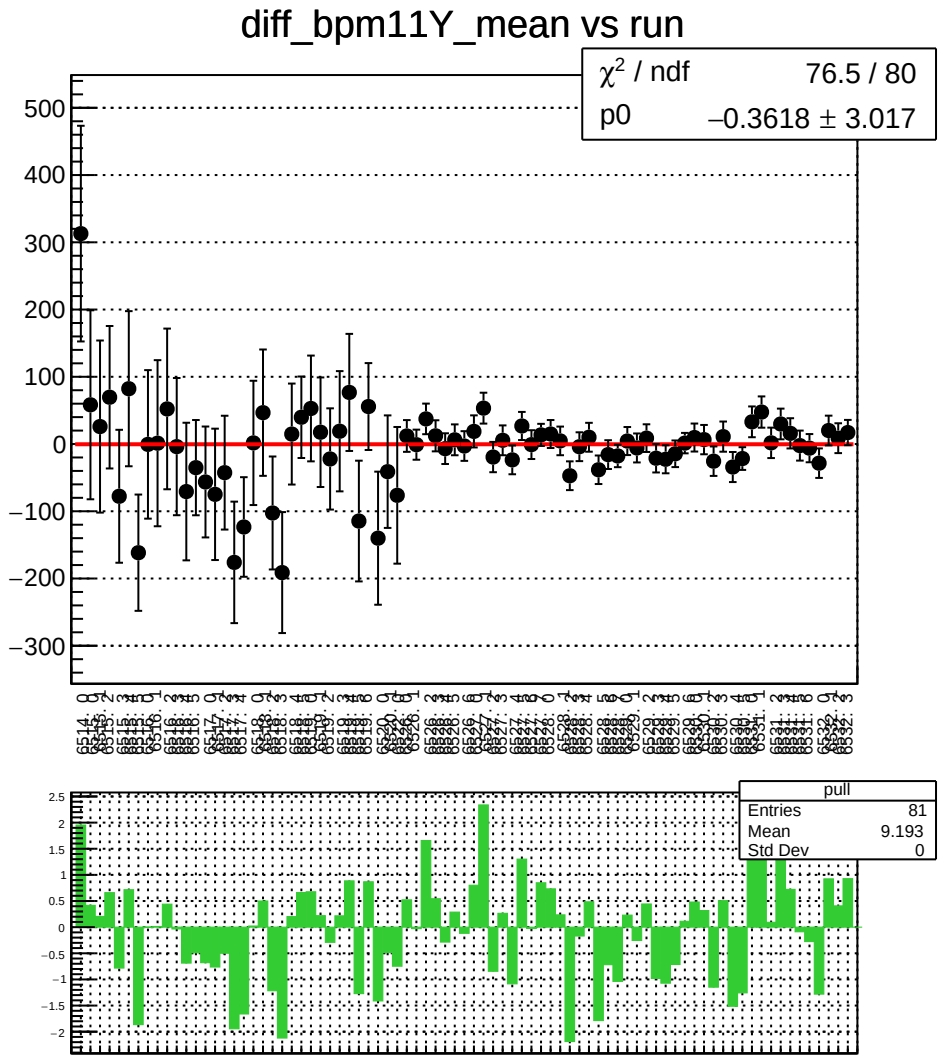

pull1D
Entries 81
Mean 0.02161
Std Dev 0.9012

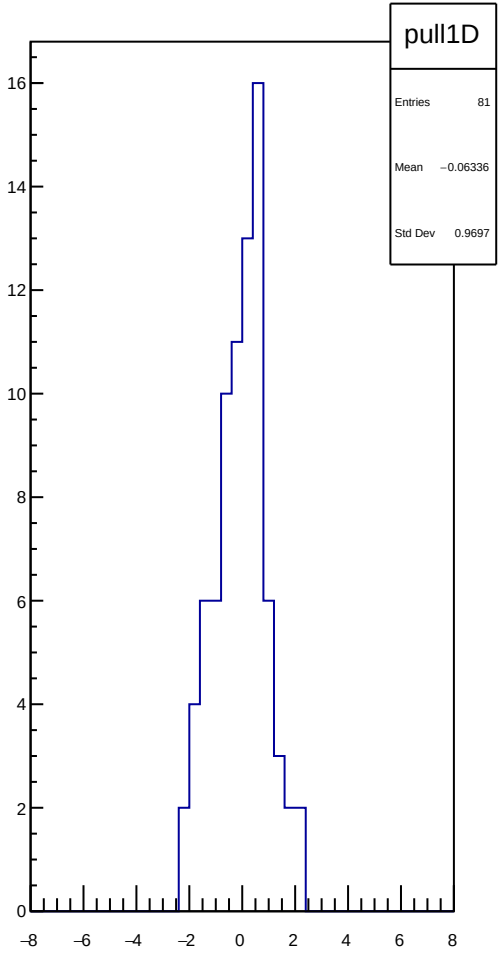

diff_bpm1Y_rms vs run
χ² / ndf 2.325e+05 / 80
p0 3386 ± 2.938
12000
10000
8000
6000
4000
2000

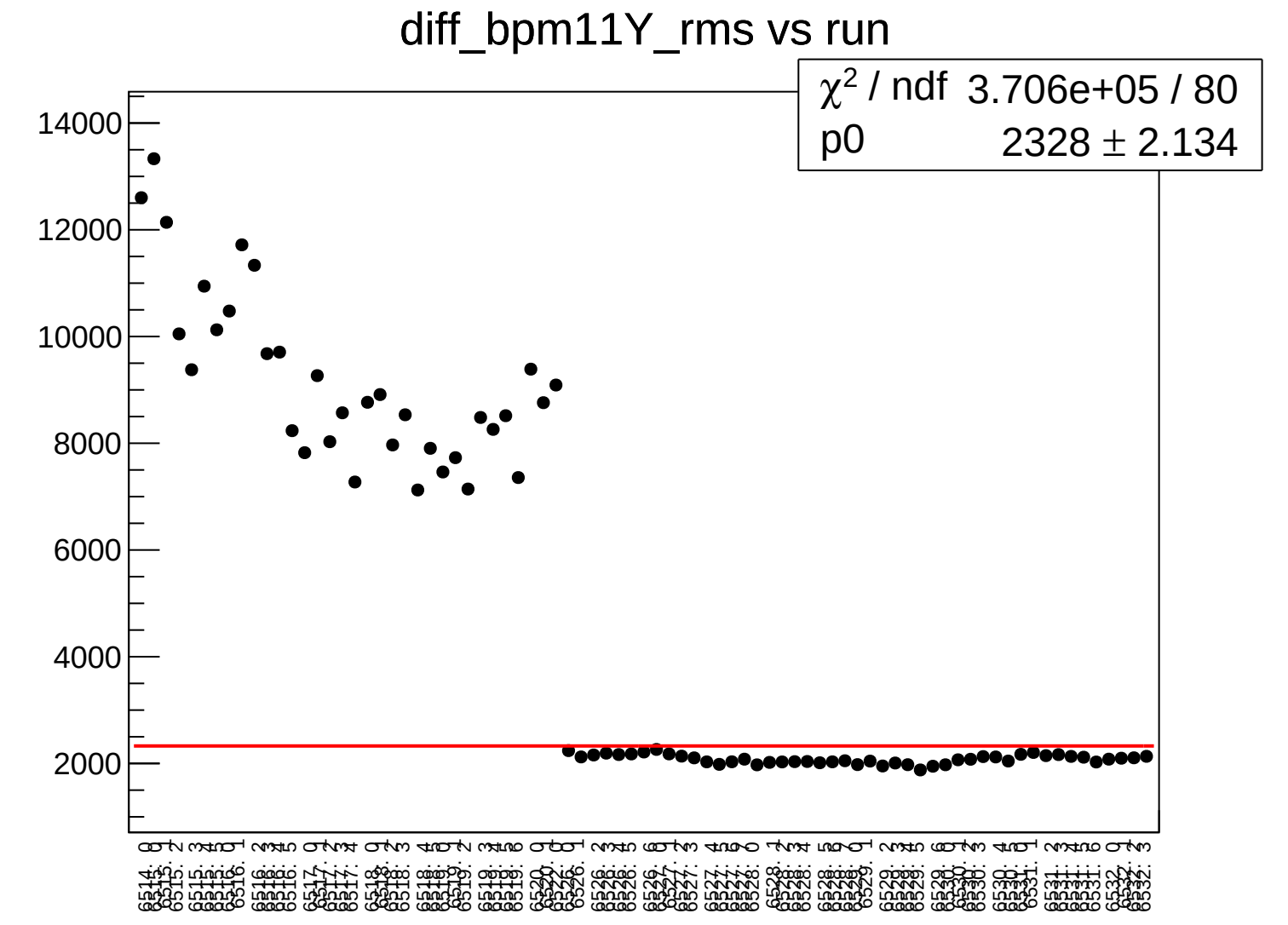

diff_bpm11X_mean vs run
χ^2 / ndf 92 / 80
p0 13.21 ± 13.16
600
400
200
0
−200
−400
pull
Entries 81
Mean −87.27
Std Dev 0
2
1
0
−1
−2

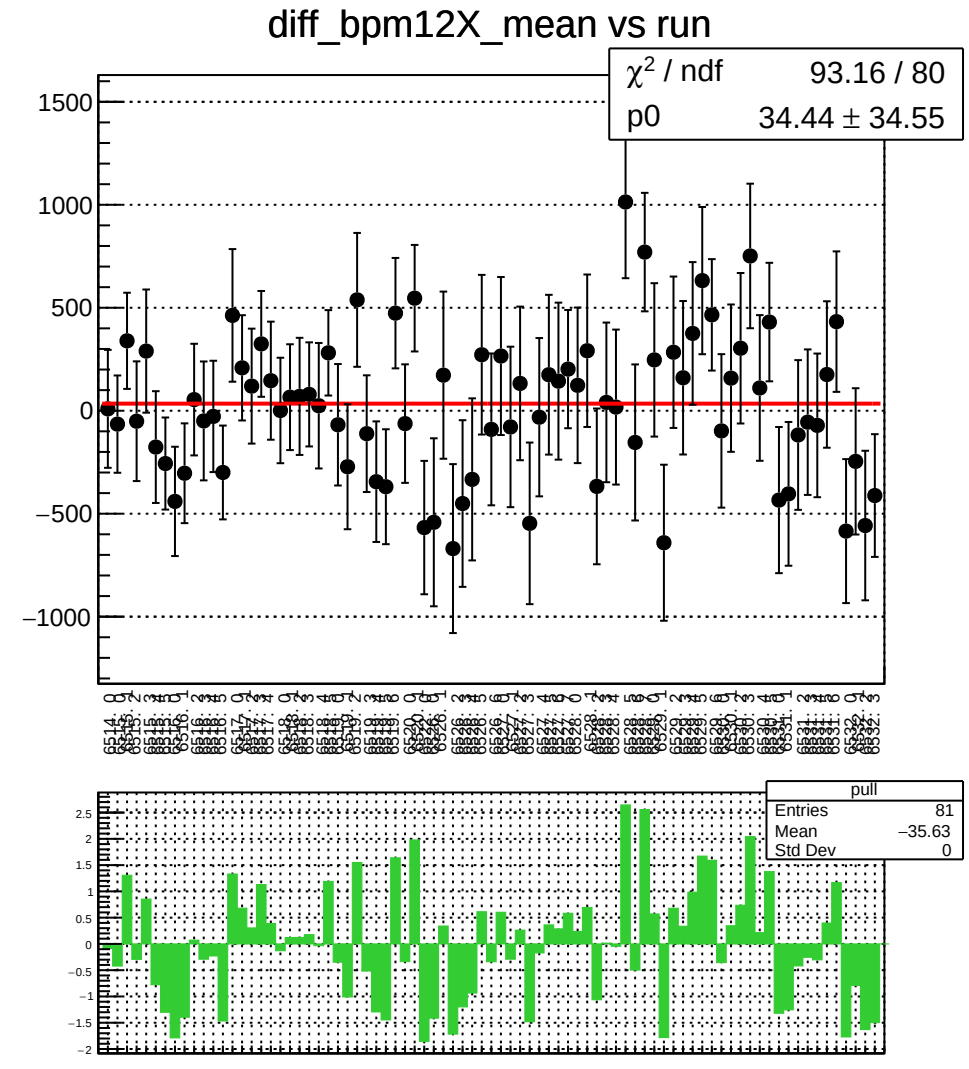

pull1D
Entries 81
Mean −0.01569
Std Dev 1.066
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

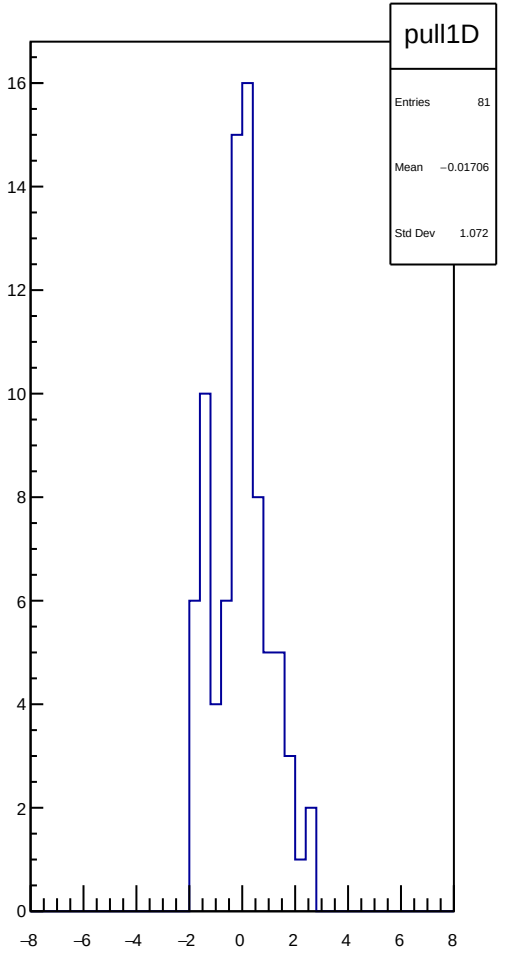

diff_bpm11X_rms vs run
χ² / ndf 3.735e+04 / 80
p0 1.149e+04 ± 9.305
15000
14000
13000
12000
11000
10000
9000
8000

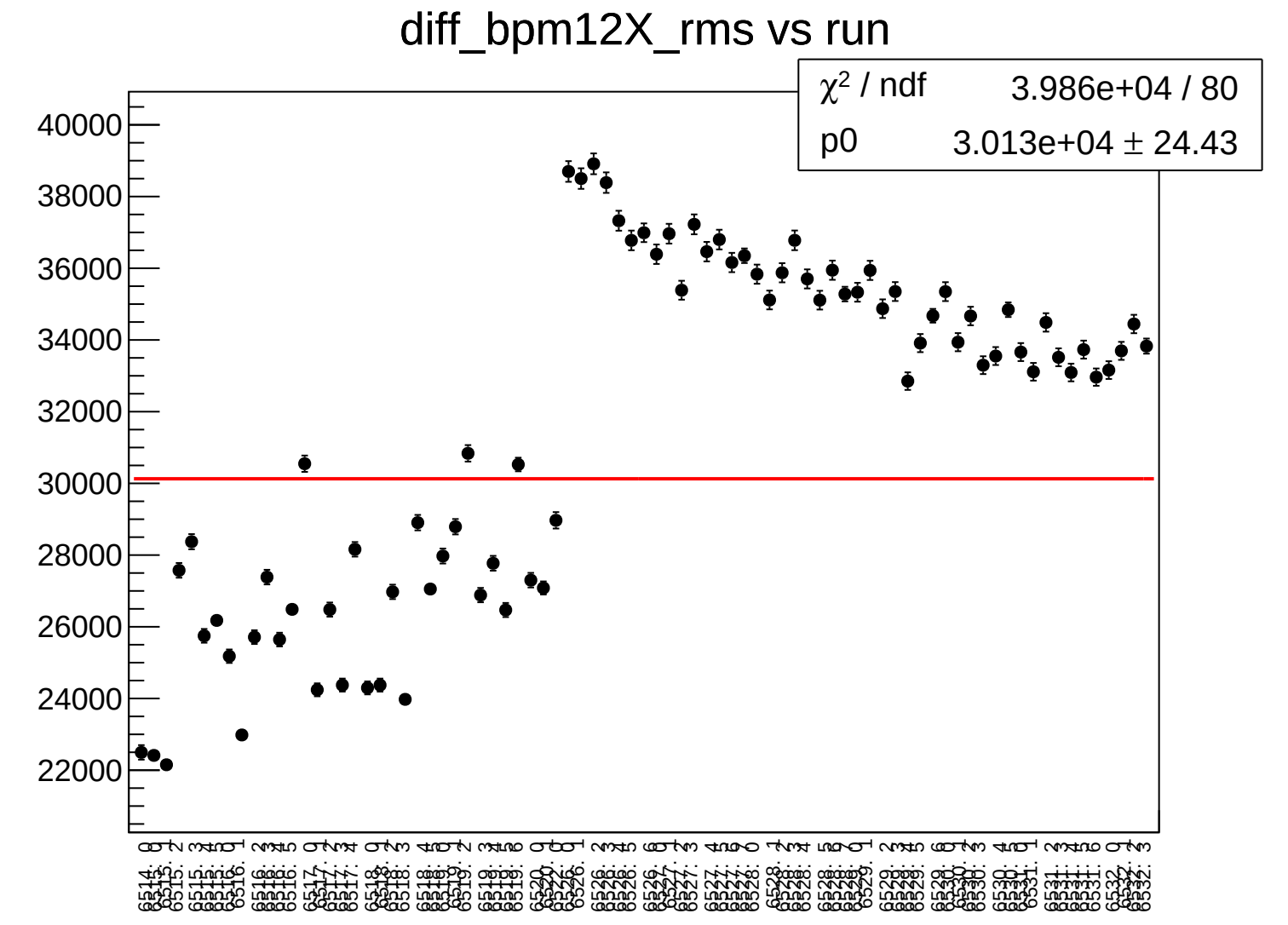

diff_bpm11Y_mean vs run
χ² / ndf 76.5 / 80
p0 −0.3618 ± 3.017
pull
Entries 81
Mean 9.193
Std Dev 0

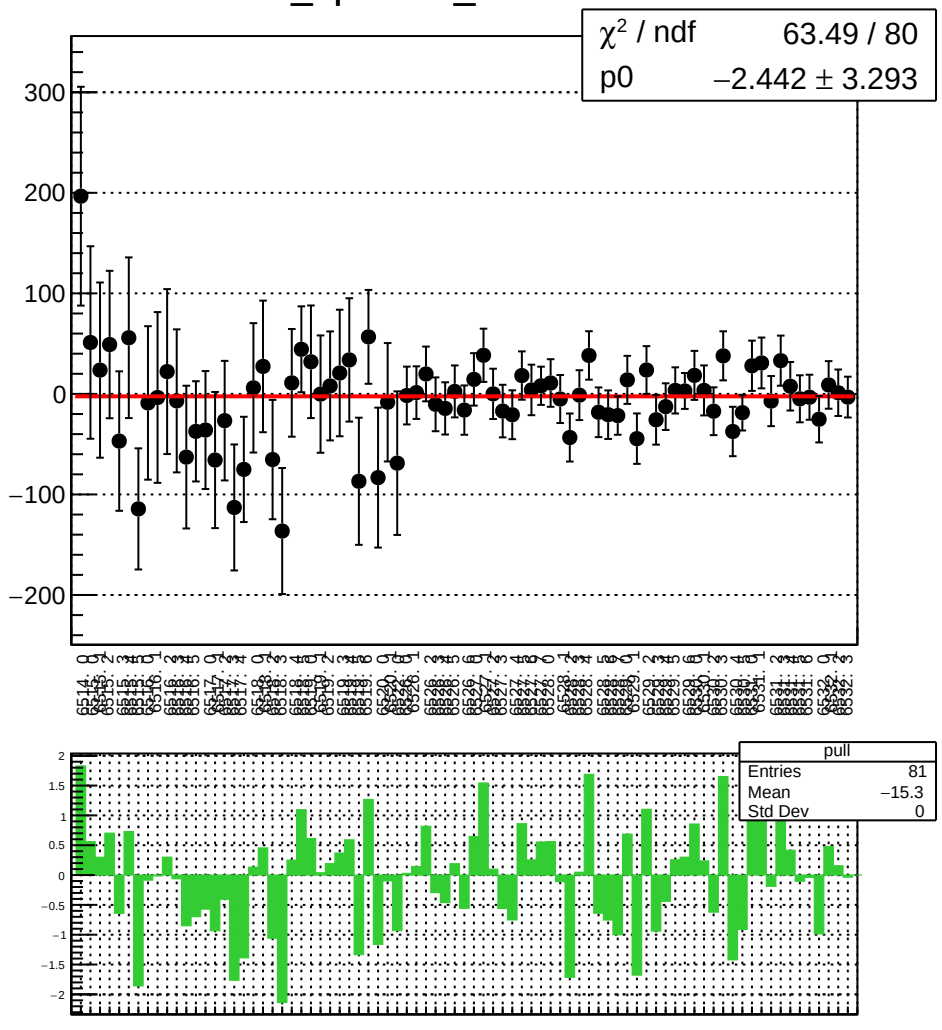

pull1D
Entries 81
Mean −0.06336
Std Dev 0.9697

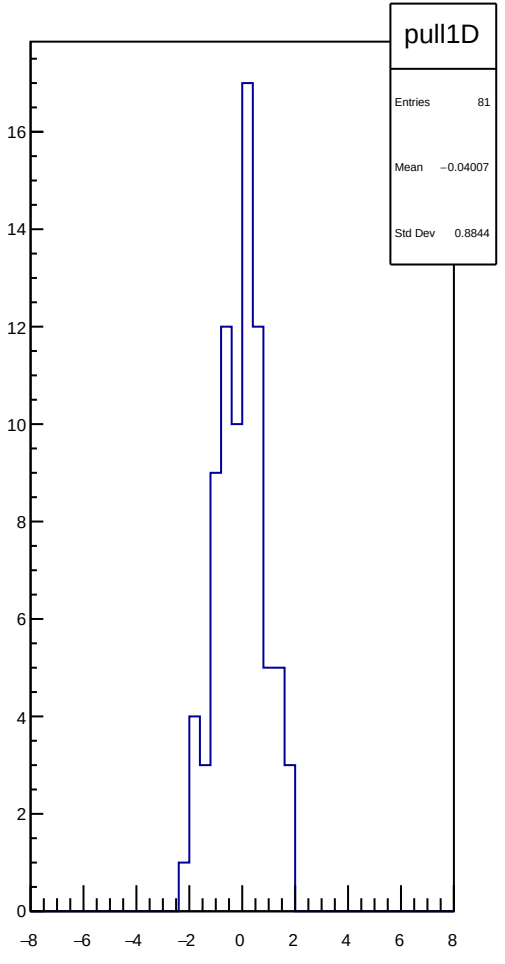

diff_bpm11Y_rms vs run
χ² / ndf 3.706e+05 / 80
p0 2328 ± 2.134
14000
12000
10000
8000
6000
4000
2000

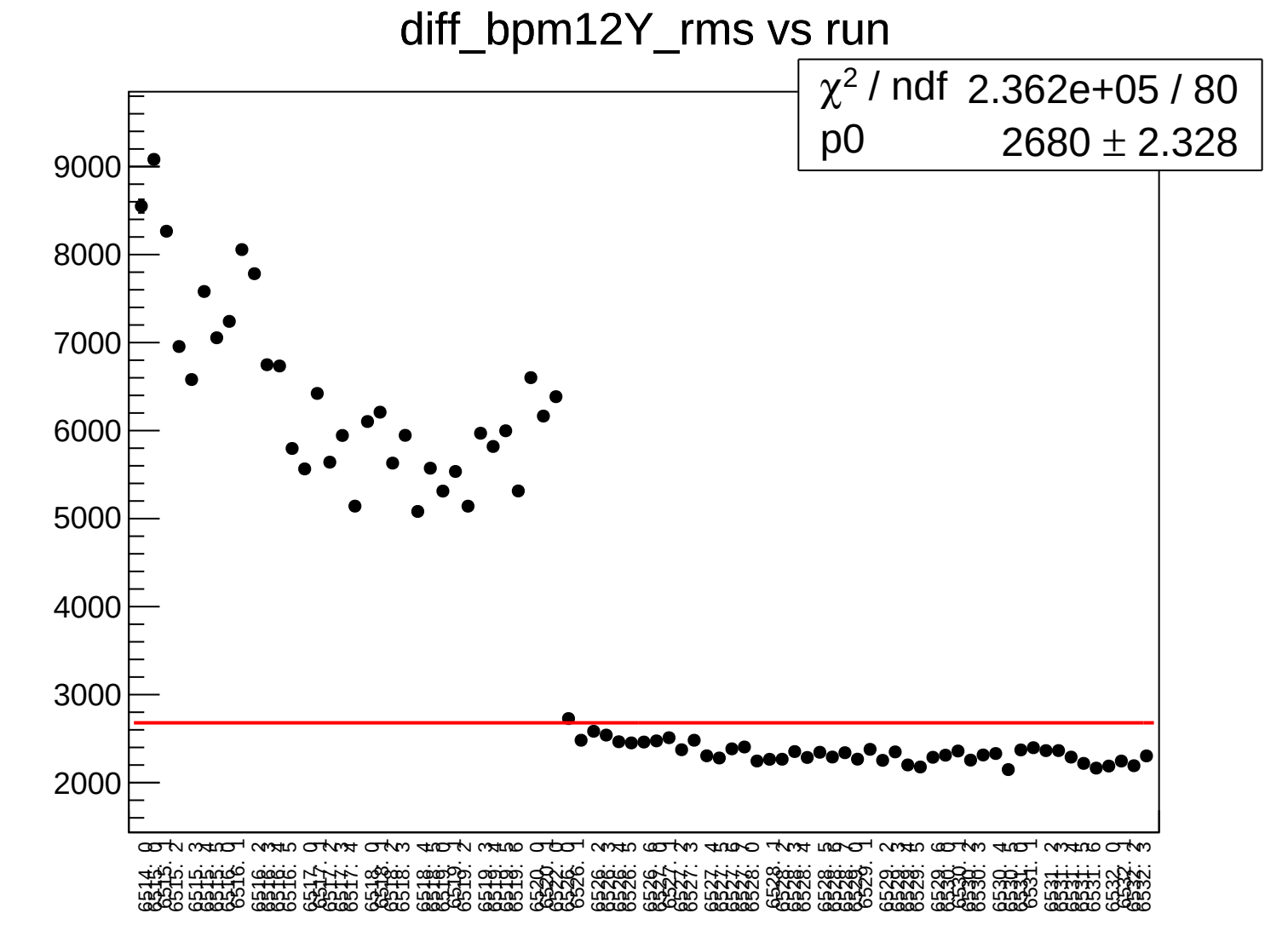

diff_bpm12X_mean vs run
χ^2 / ndf 93.16 / 80
p0 34.44 ± 34.55
1500
1000
500
0
−500
−1000
pull
Entries 81
Mean −35.63
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

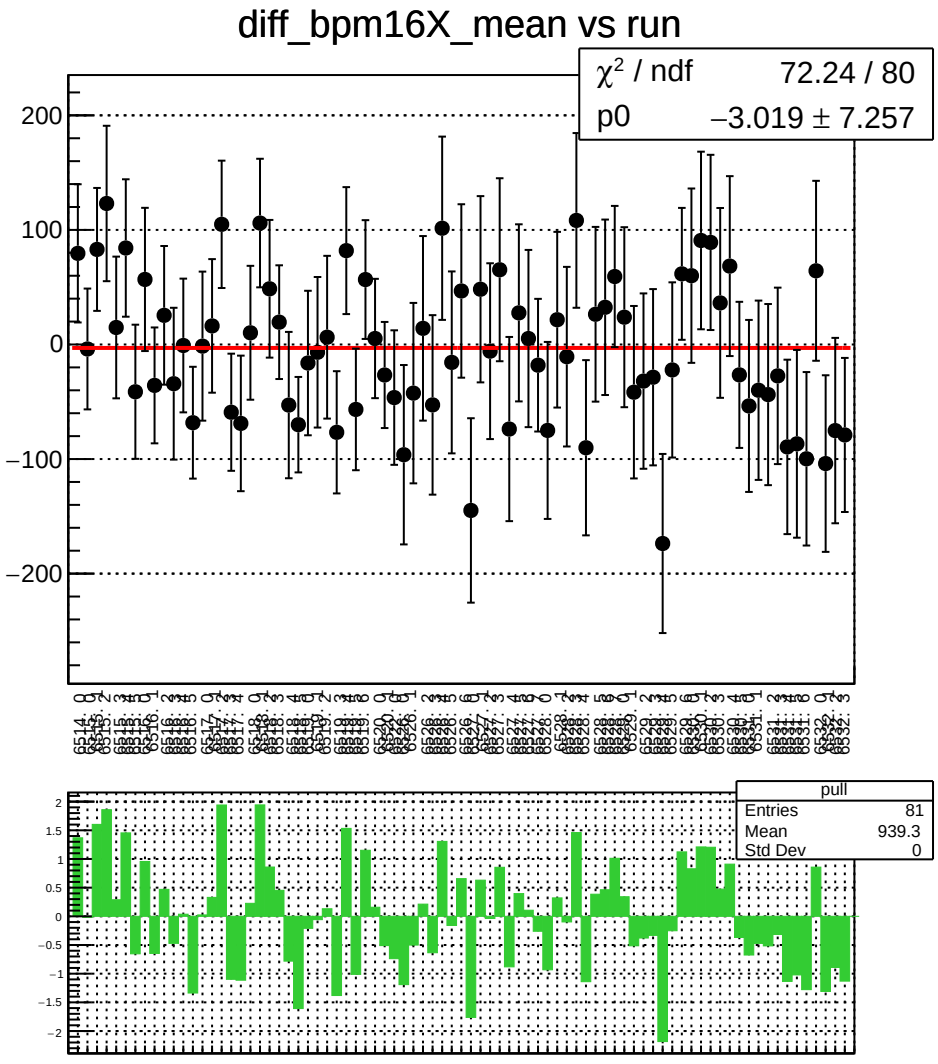

pull1D
Entries 81
Mean −0.01706
Std Dev 1.072
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

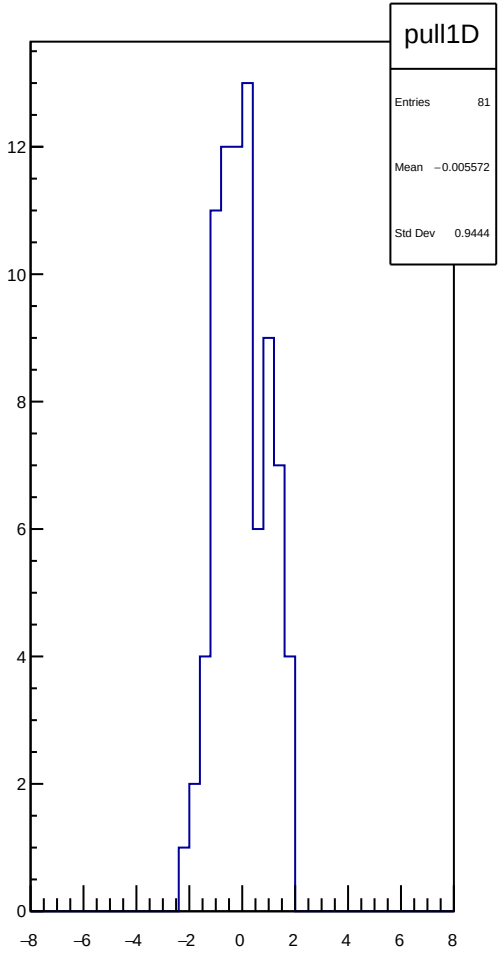

diff_bpm12X_rms vs run
χ² / ndf 3.986e+04 / 80
p0 3.013e+04 ± 24.43
40000
38000
36000
34000
32000
30000
28000
26000
24000
22000

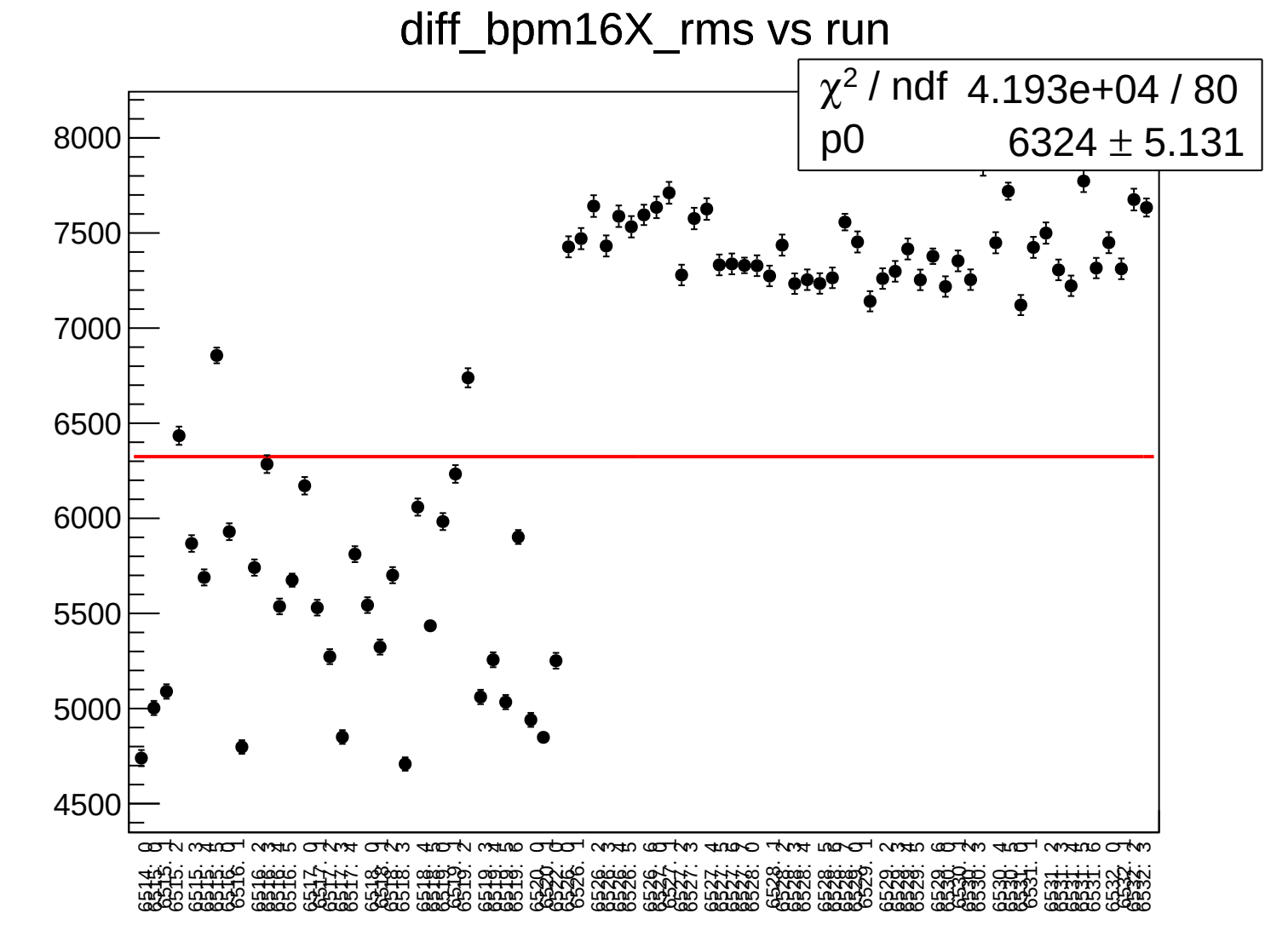

diff_bpm12Y_mean vs run
χ² / ndf 63.49 / 80
p0 −2.442 ± 3.293
300
200
100
0
−100
−200
pull
Entries 81
Mean −15.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

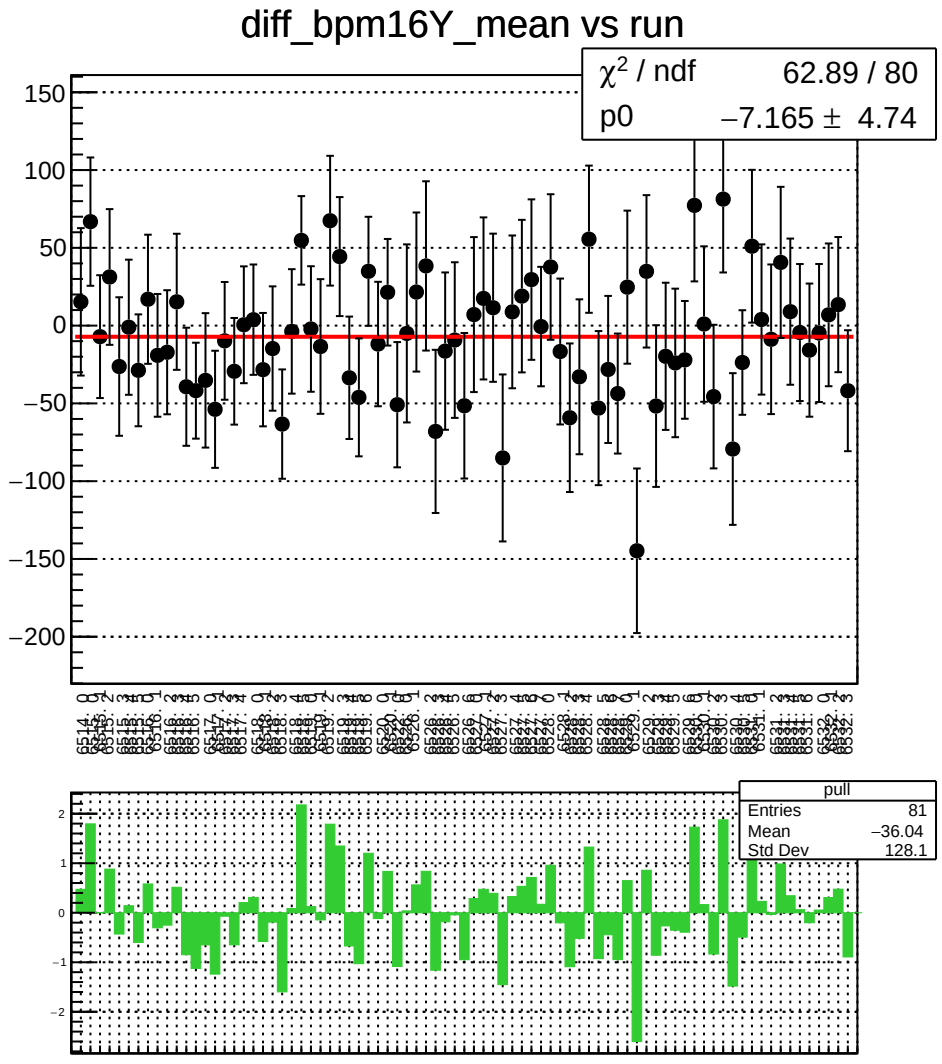

pull1D
Entries 81
Mean −0.04007
Std Dev 0.8844
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

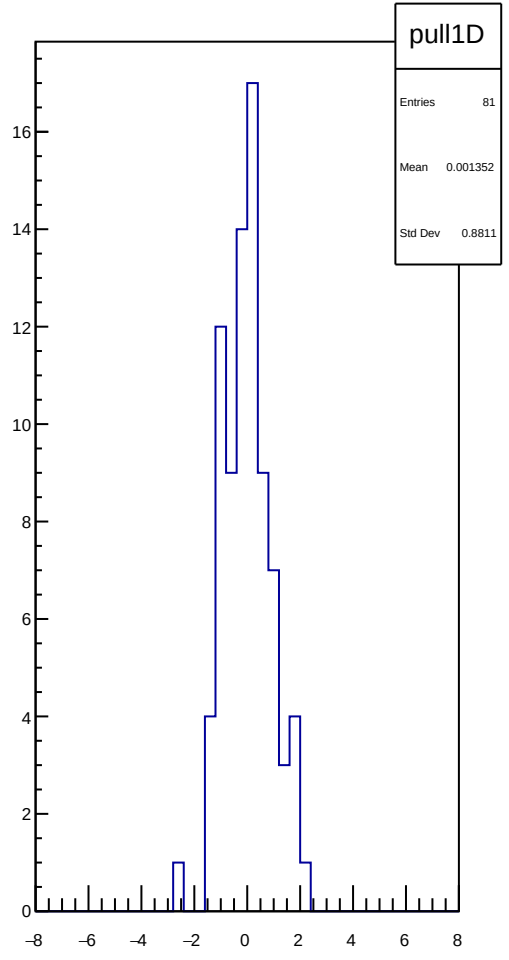

diff_bpm12Y_rms vs run
χ² / ndf 2.362e+05 / 80
p0 2680 ± 2.328
9000
8000
7000
6000
5000
4000
3000
2000

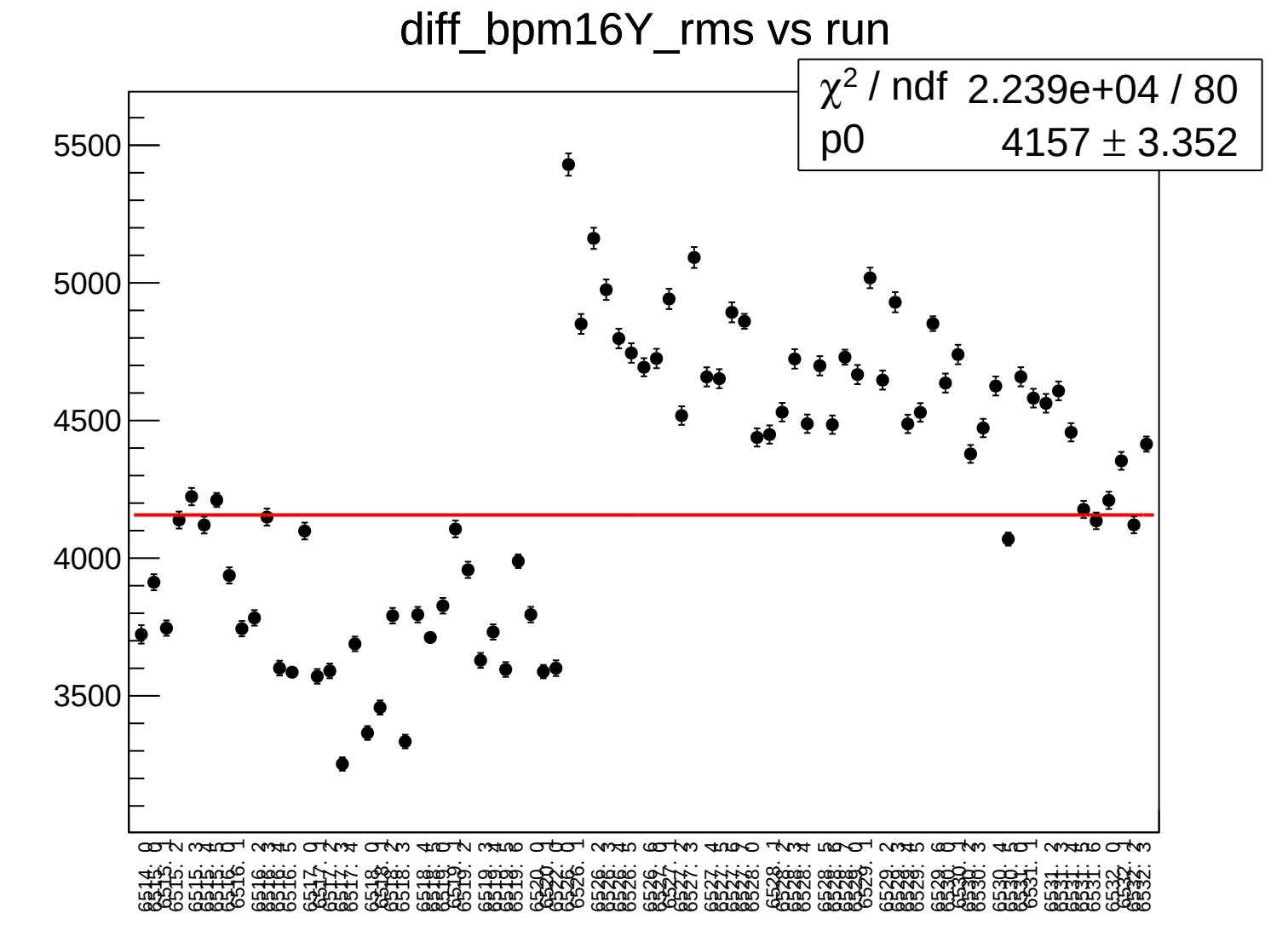

diff_bpm16X_mean vs run
χ² / ndf 72.24 / 80
p0 −3.019 ± 7.257
200
100
0
−100
−200
pull
Entries 81
Mean 939.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

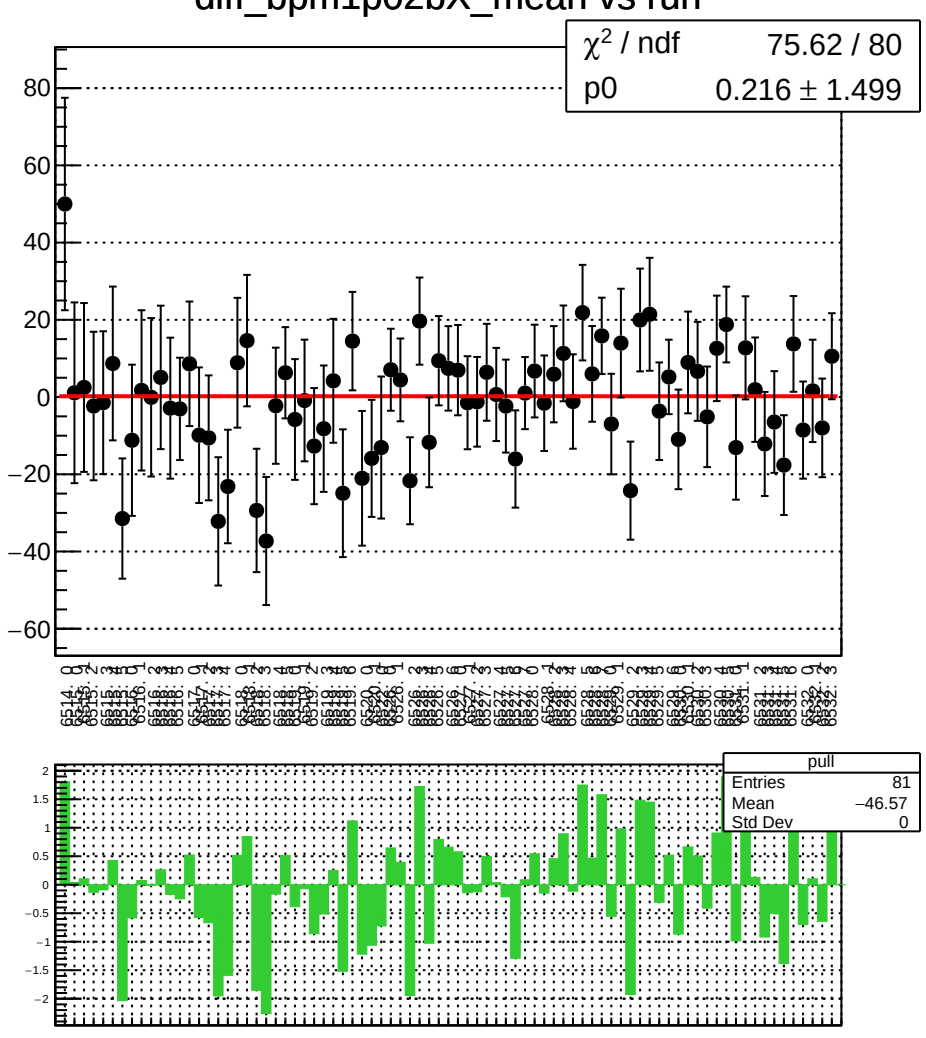

pull1D
Entries 81
Mean −0.005572
Std Dev 0.9444
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

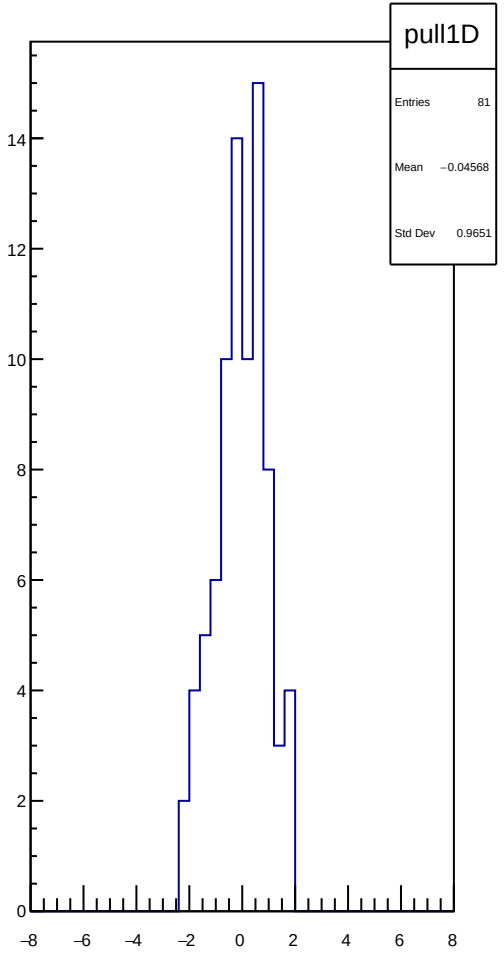

diff_bpm16X_rms vs run
χ² / ndf 4.193e+04 / 80
p0 6324 ± 5.131
8000
7500
7000
6500
6000
5500
5000
4500

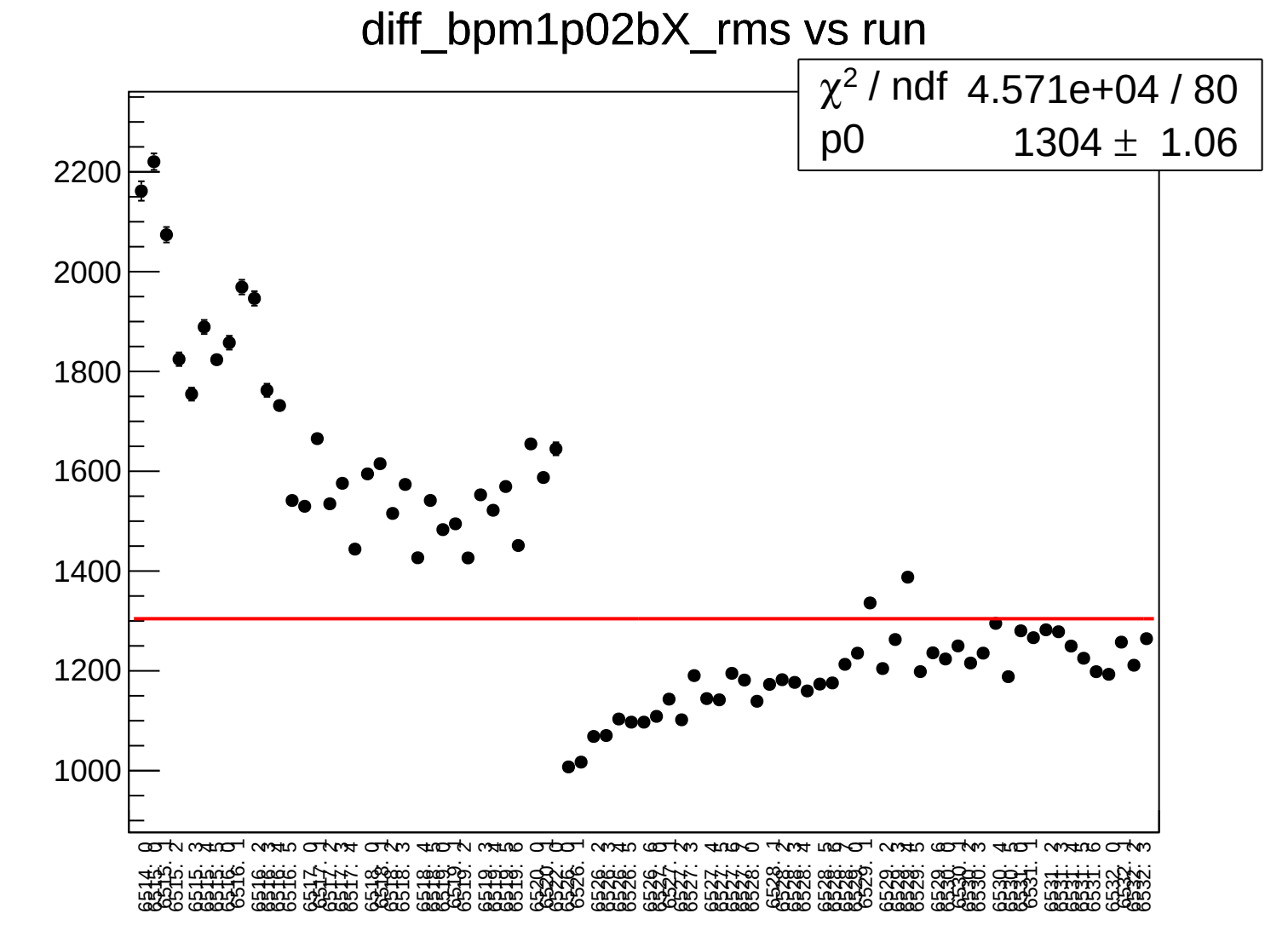

diff_bpm16Y_mean vs run
χ² / ndf 62.89 / 80
p0 −7.165 ± 4.74
150
100
50
0
−50
−100
−150
−200
pull
Entries 81
Mean −36.04
Std Dev 128.1
2
1
0
−1
−2

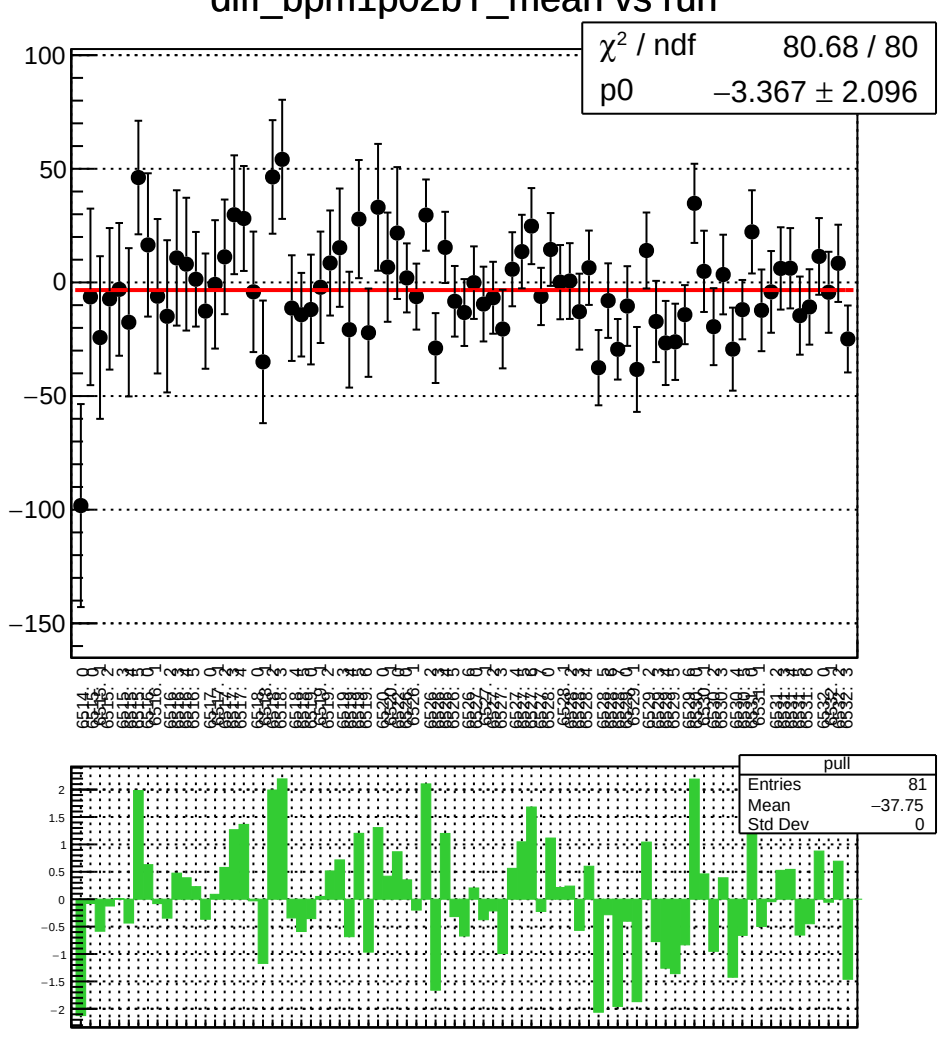

pull1D
Entries 81
Mean 0.001352
Std Dev 0.8811
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

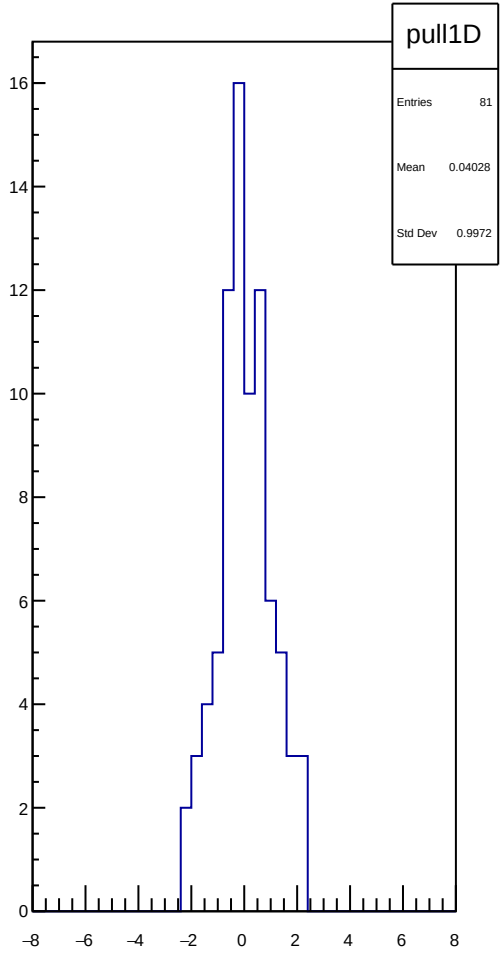

diff_bpm16Y_rms vs run
χ^2 / ndf 2.239e+04 / 80
p0 4157 ± 3.352
5500
5000
4500
4000
3500

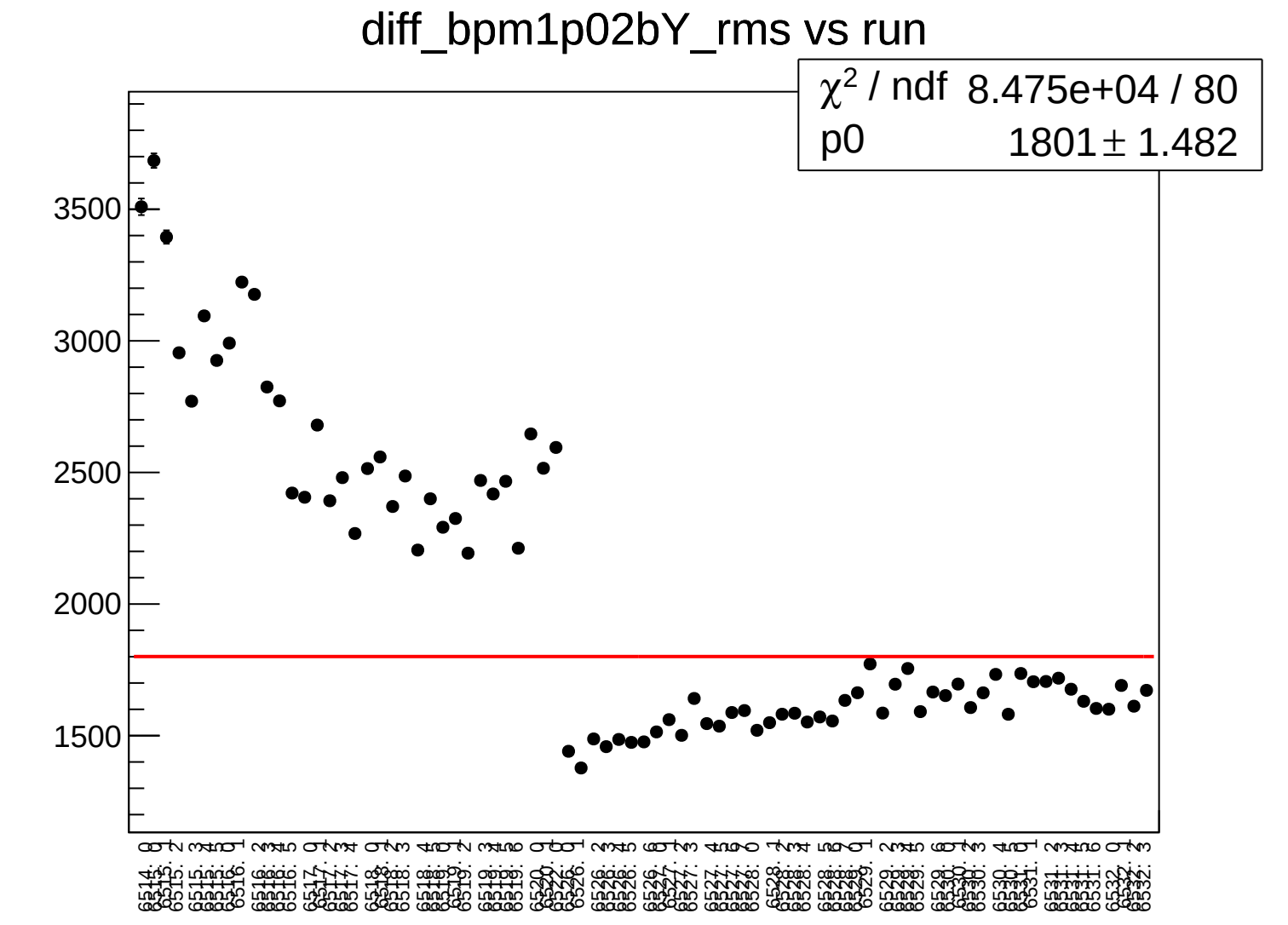

diff_bpm1p02bX_mean vs run
χ² / ndf 75.62 / 80
p0 0.216 ± 1.499
pull
Entries 81
Mean −46.57
Std Dev 0

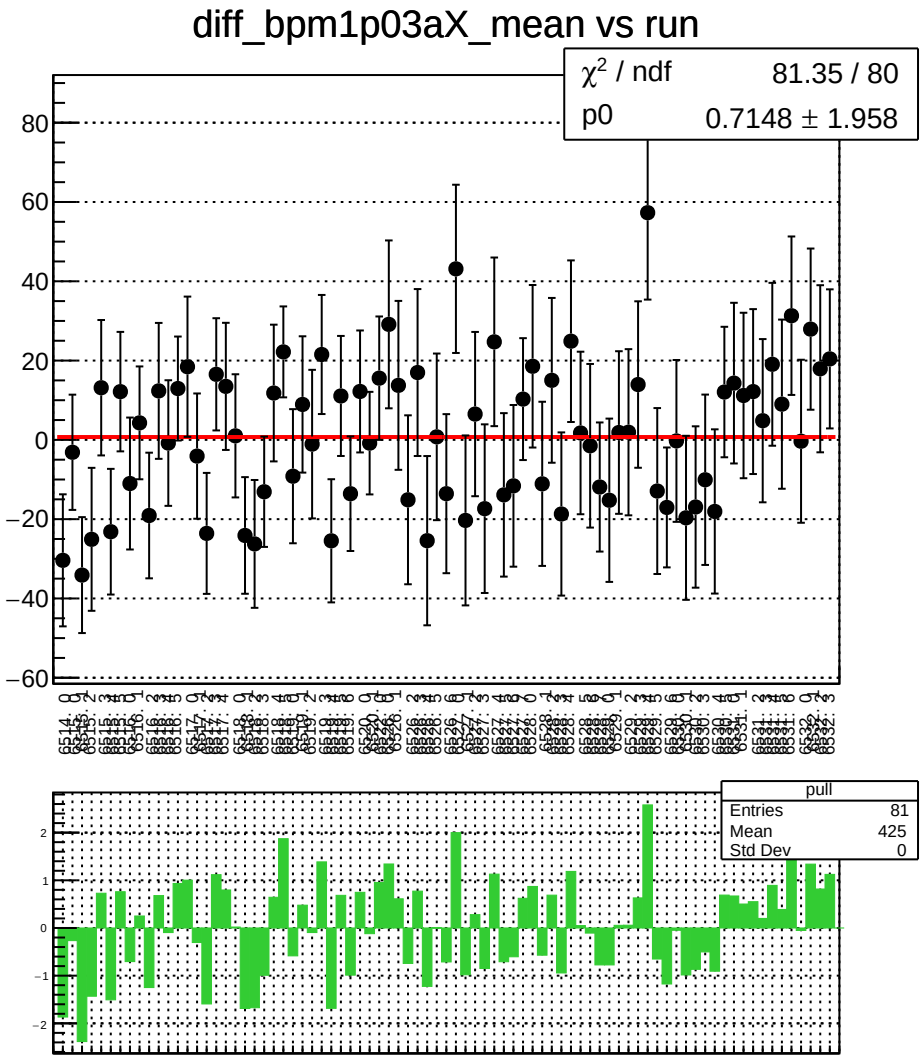

pull1D
Entries 81
Mean −0.04568
Std Dev 0.9651

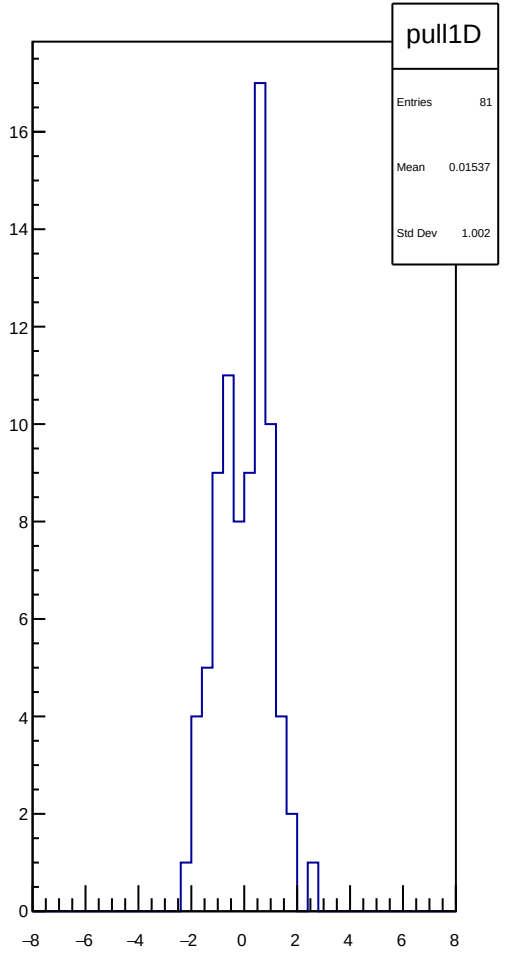

diff_bpm1p02bX_rms vs run
χ² / ndf 4.571e+04 / 80
p0 1304 ± 1.06
2200
2000
1800
1600
1400
1200
1000

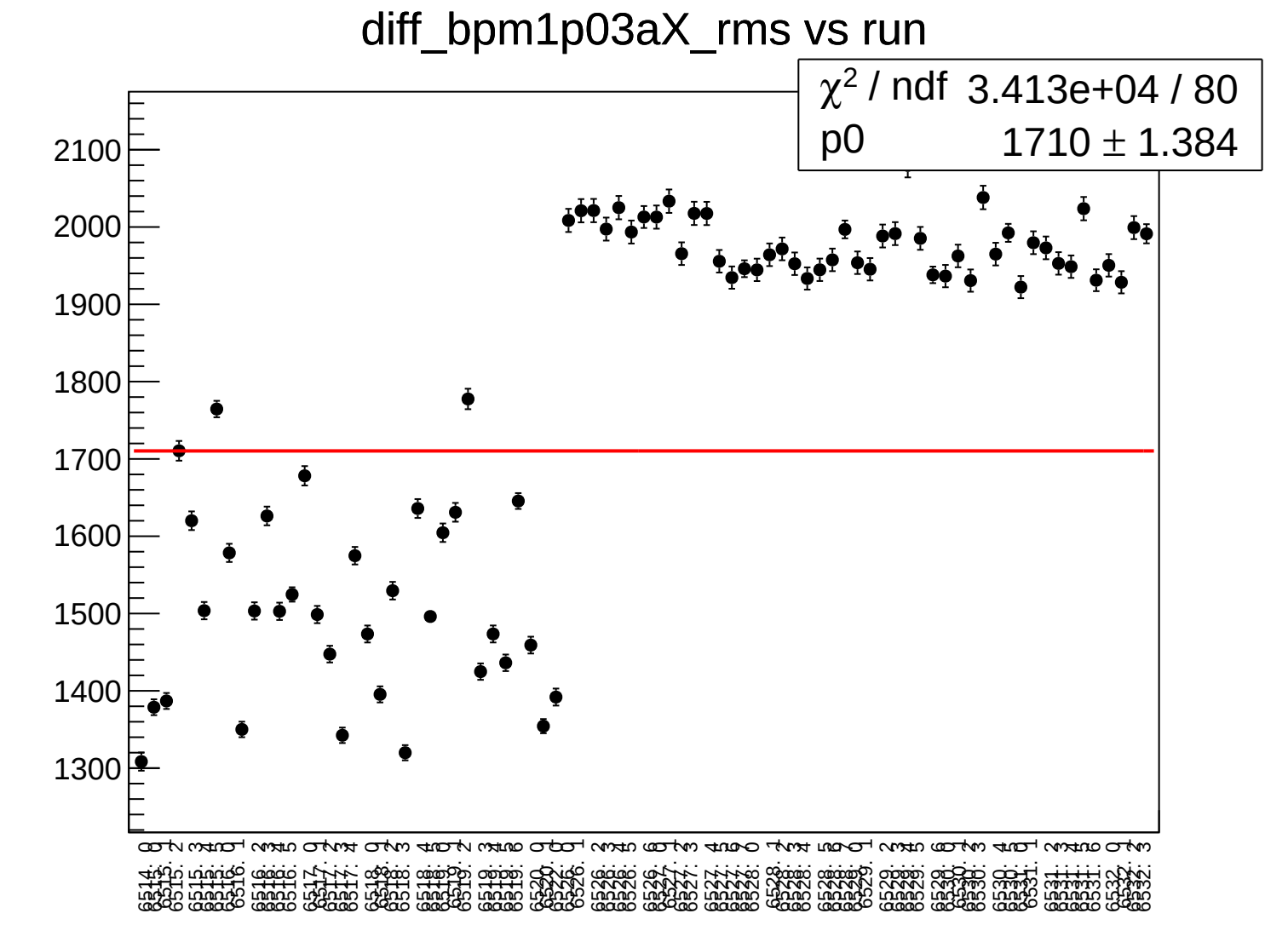

diff_bpm1p02bY_mean vs run
χ² / ndf 80.68 / 80
p0 −3.367 ± 2.096
pull
Entries 81
Mean −37.75
Std Dev 0

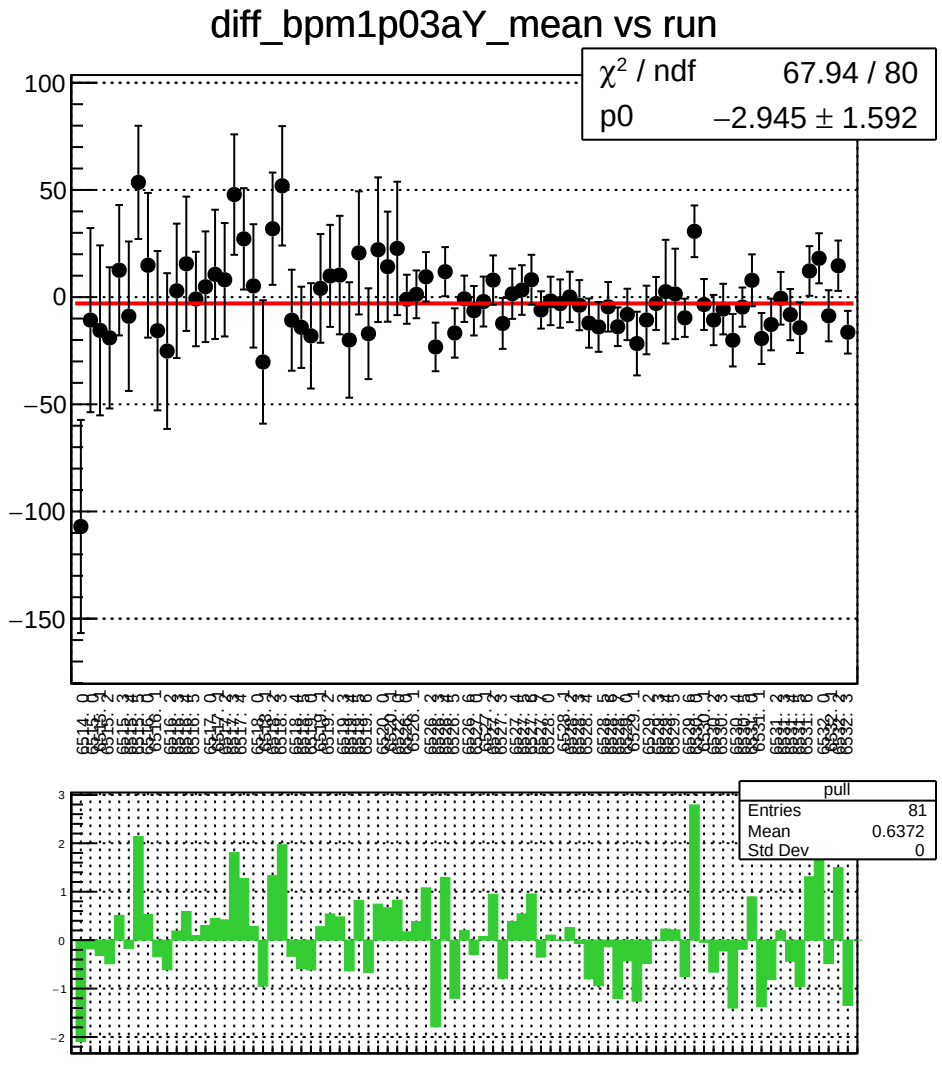

pull1D
Entries 81
Mean 0.04028
Std Dev 0.9972

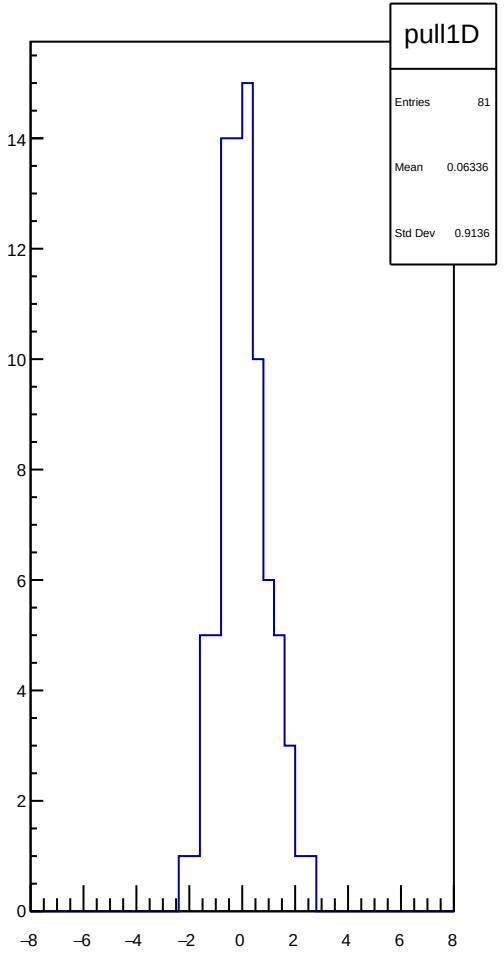

diff_bpm1p02bY_rms vs run
χ² / ndf 8.475e+04 / 80
p0 1801 ± 1.482
3500
3000
2500
2000
1500

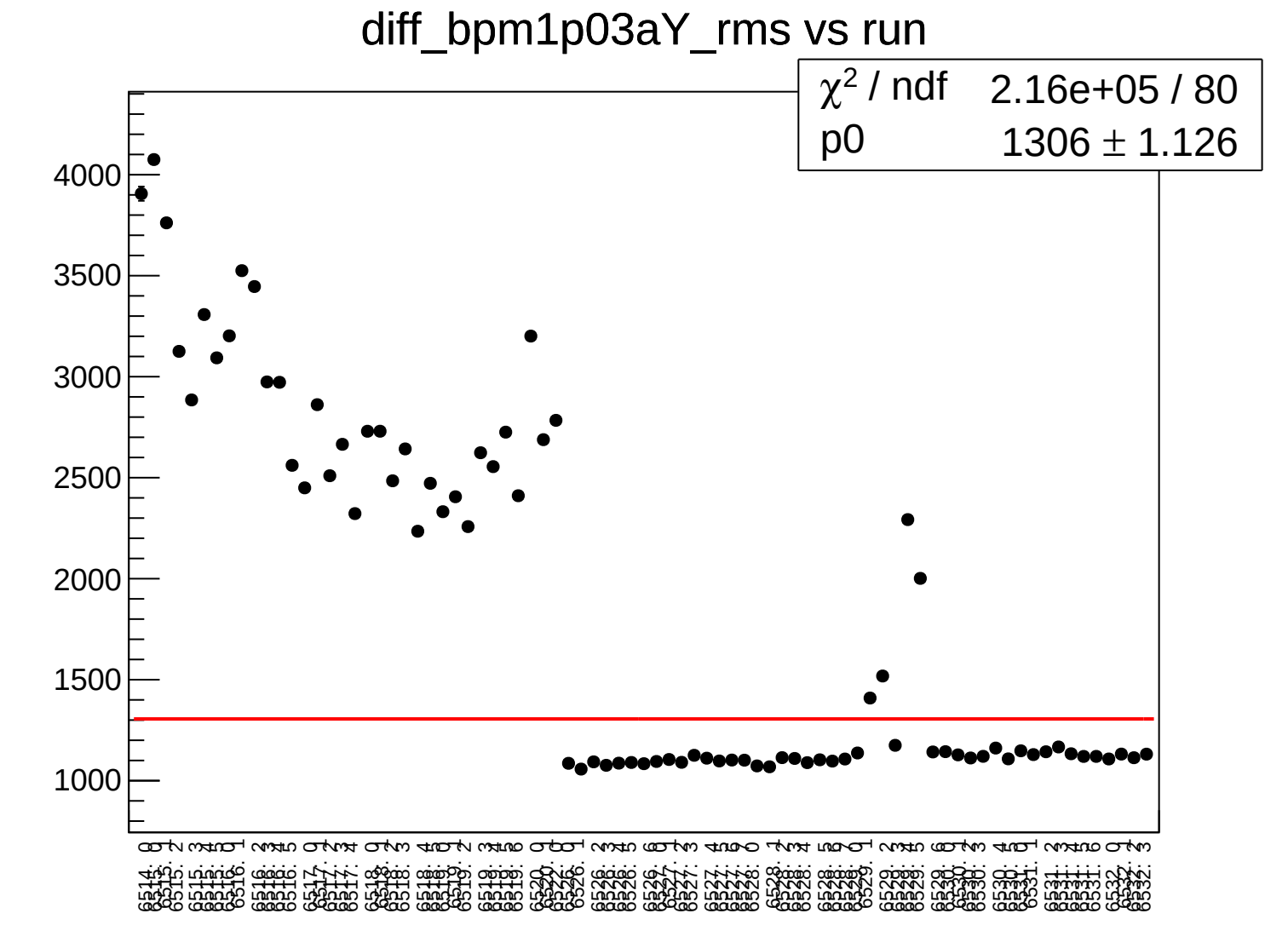

diff_bpm1p03aX_mean vs run
χ² / ndf 81.35 / 80
p0 0.7148 ± 1.958
pull
Entries 81
Mean 425
Std Dev 0

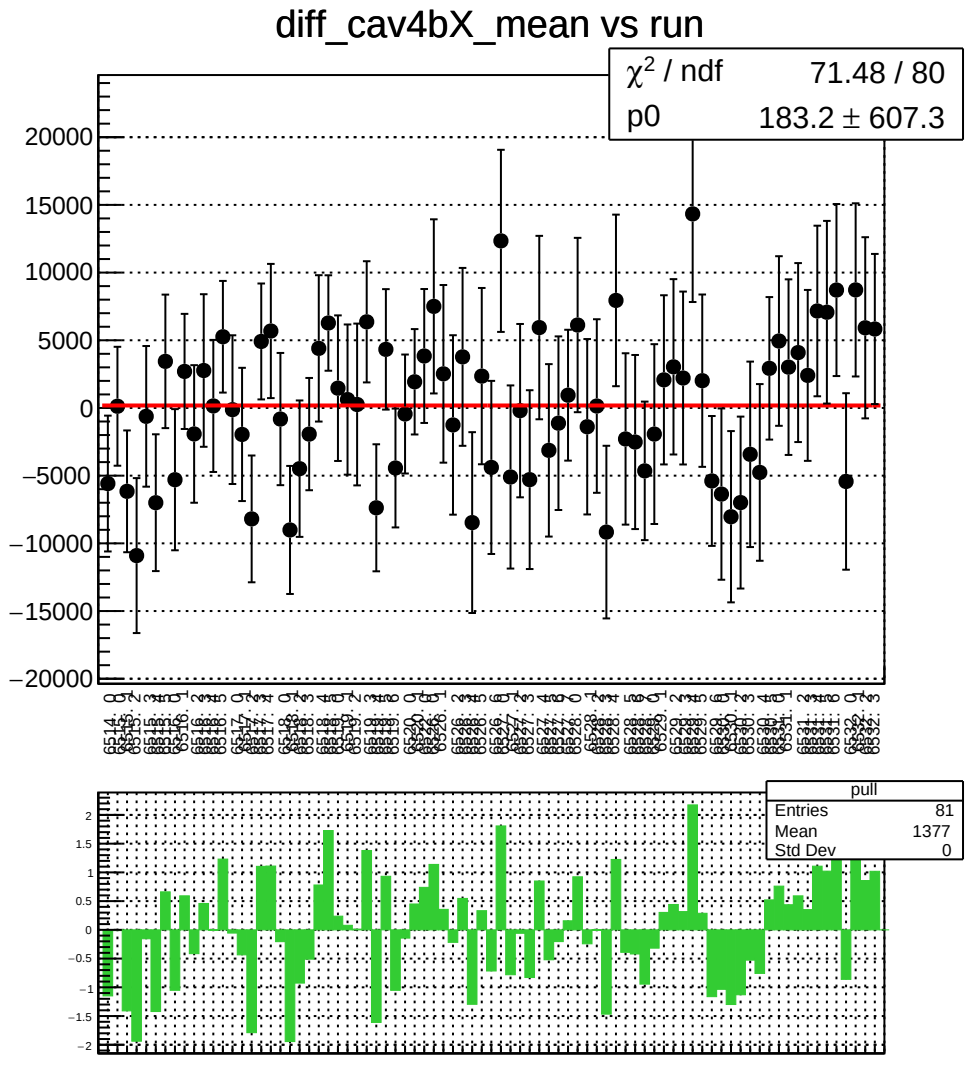

pull1D
Entries 81
Mean 0.01537
Std Dev 1.002

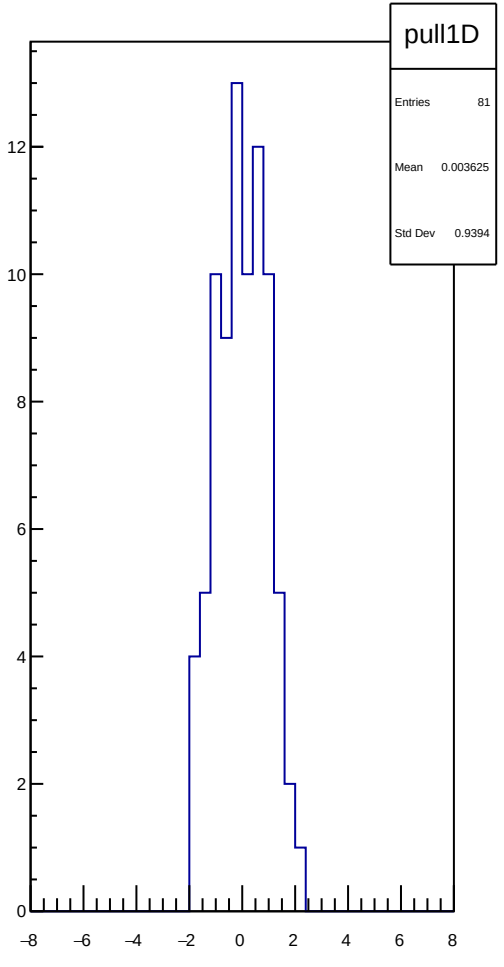

diff_bpm1p03aX_rms vs run
χ² / ndf 3.413e+04 / 80
p0 1710 ± 1.384
2100
2000
1900
1800
1700
1600
1500
1400
1300

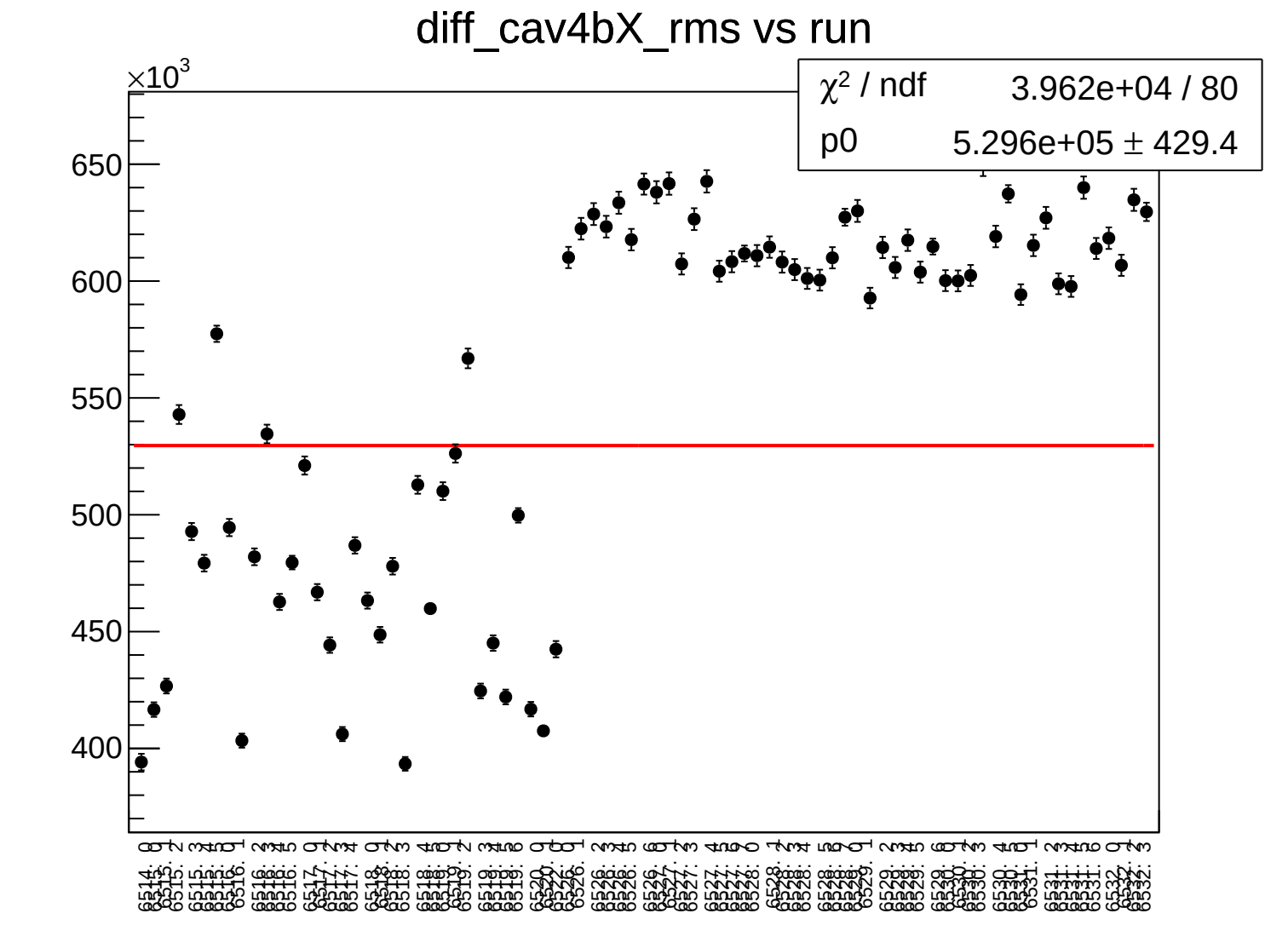

diff_bpm1p03aY_mean vs run
χ² / ndf 67.94 / 80
p0 −2.945 ± 1.592
100
50
0
−50
−100
−150
pull
Entries 81
Mean 0.6372
Std Dev 0
3
2
1
0
−1
−2

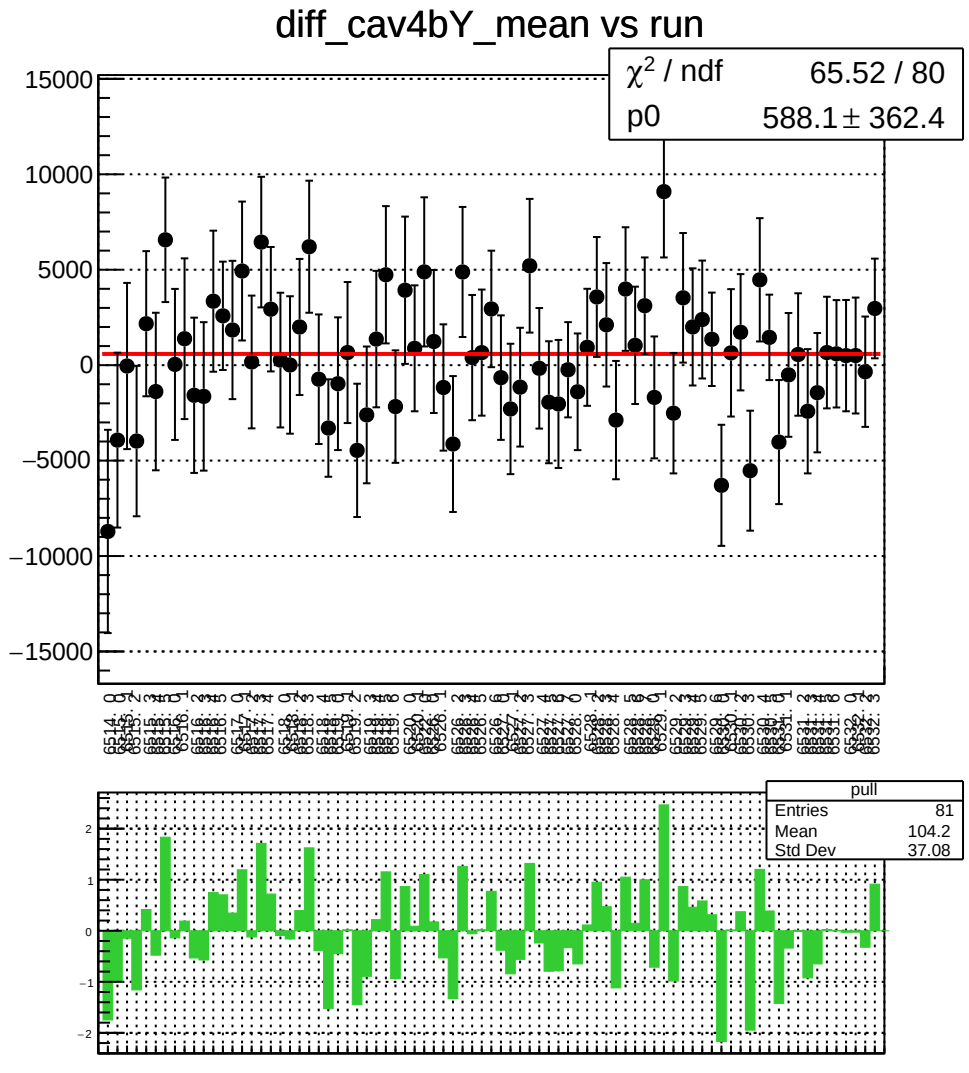

pull1D
Entries 81
Mean 0.06336
Std Dev 0.9136
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

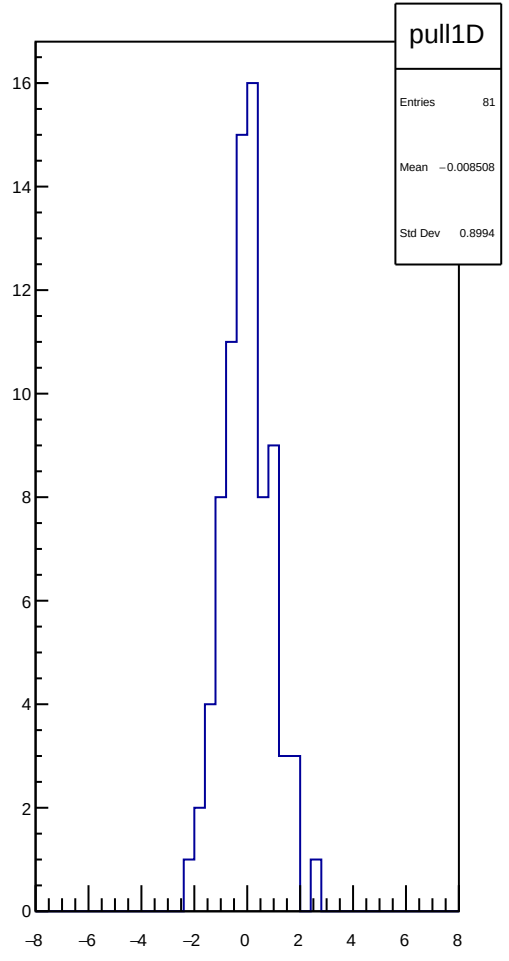

diff_bpm1p03aY_rms vs run
χ² / ndf 2.16e+05 / 80
p0 1306 ± 1.126
4000
3500
3000
2500
2000
1500
1000

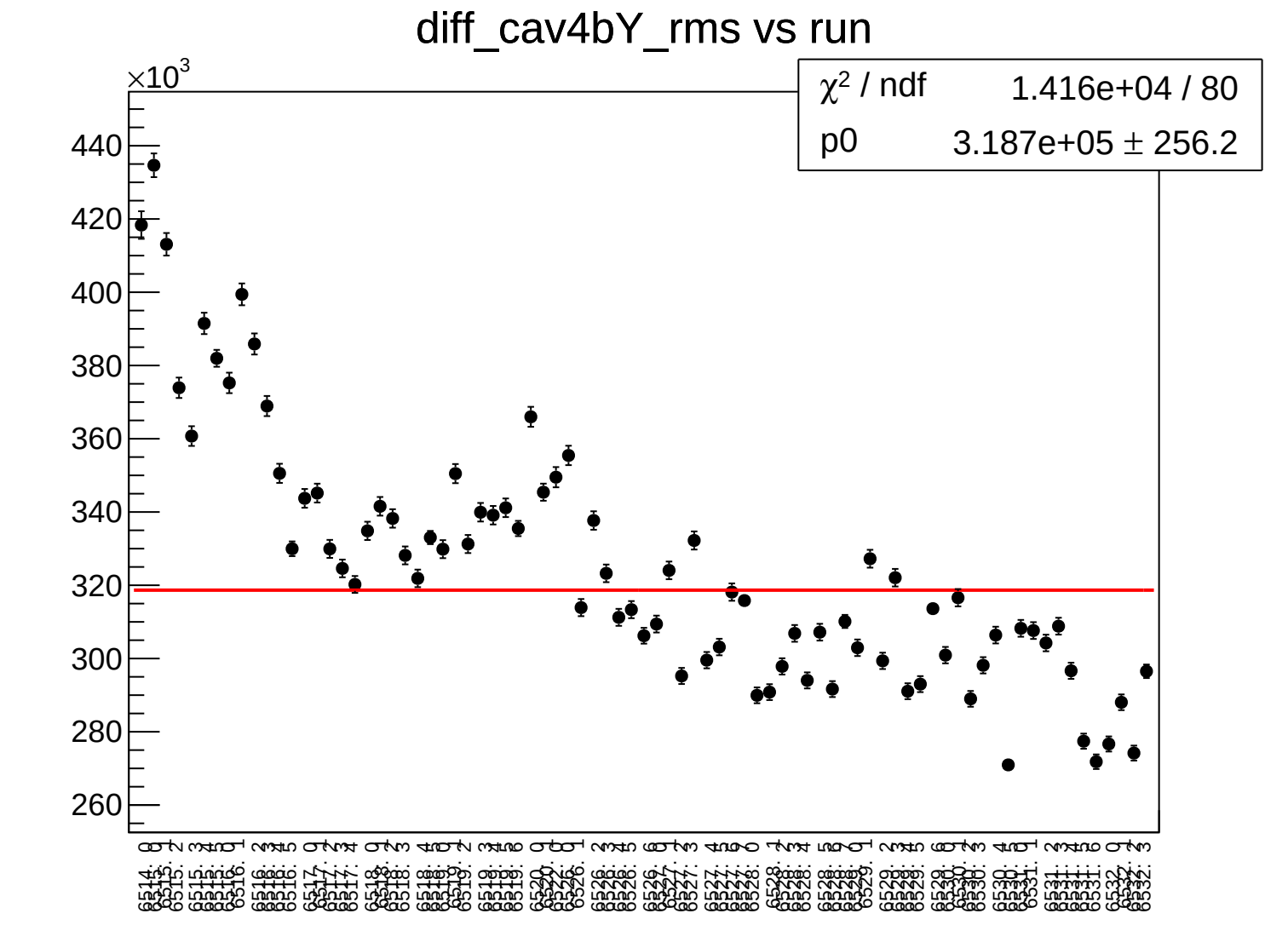

diff_cav4bX_mean vs run
χ^2 / ndf 71.48 / 80
p0 183.2 ± 607.3
pull
Entries 81
Mean 1377
Std Dev 0

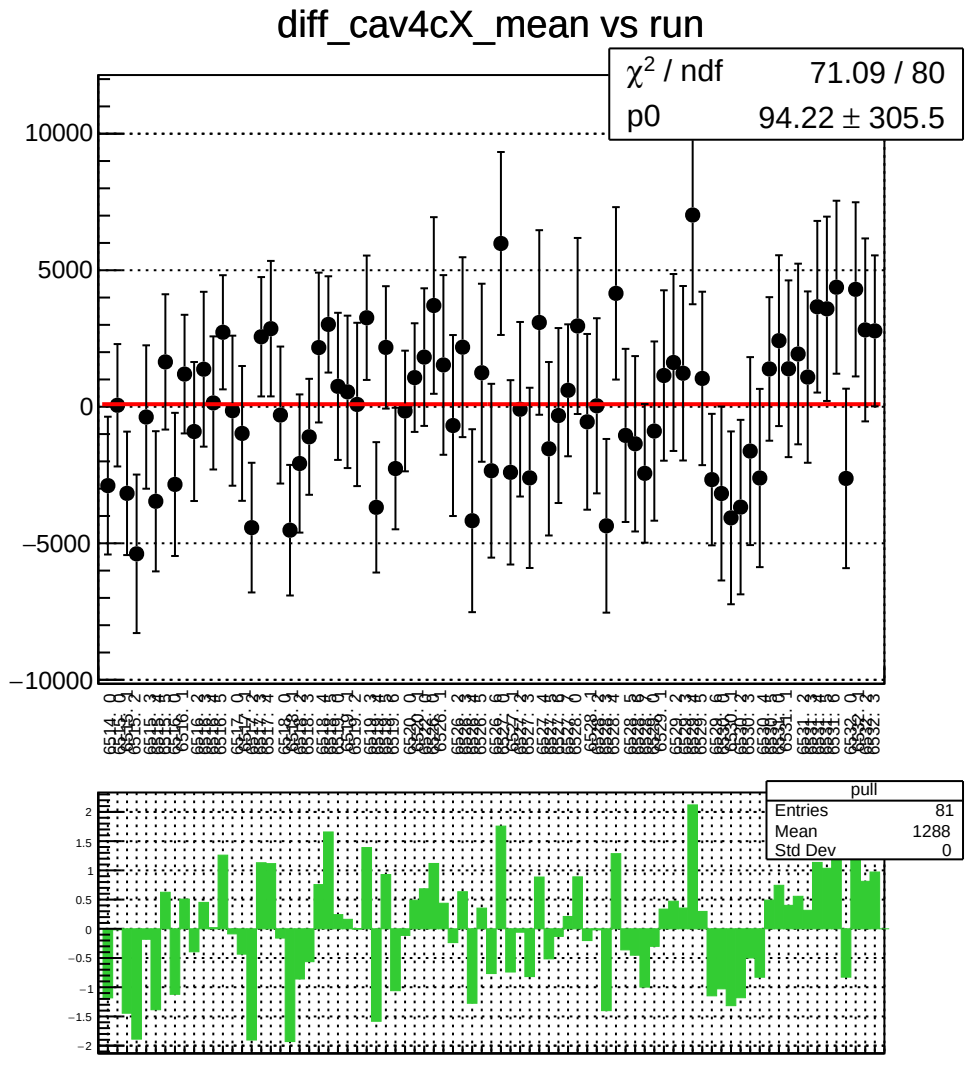

pull1D
Entries 81
Mean 0.003625
Std Dev 0.9394

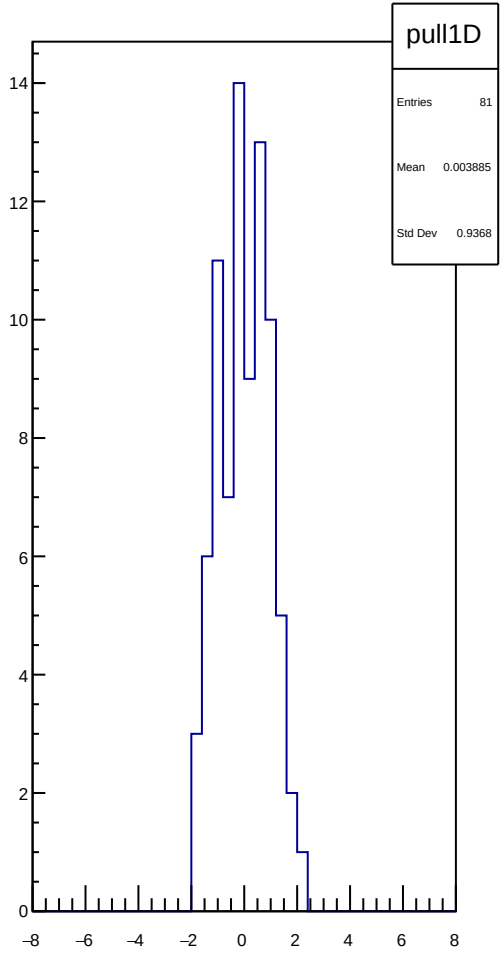

diff_cav4bX_rms vs run
×10^3
χ² / ndf 3.962e+04 / 80
p0 5.296e+05 ± 429.4
650
600
550
500
450
400

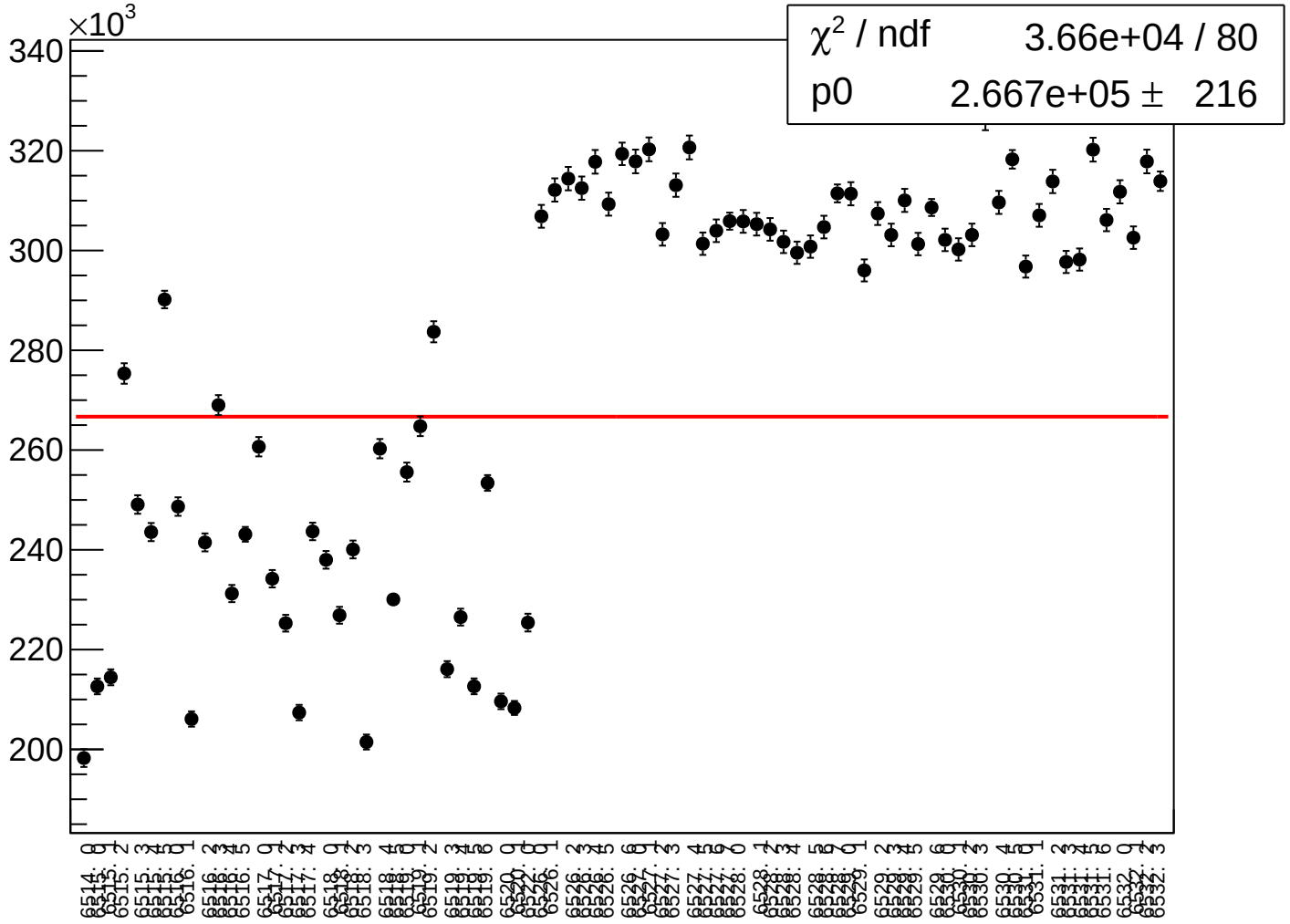

diff_cav4bY_mean vs run
χ² / ndf 65.52 / 80
p0 588.1 ± 362.4
pull
Entries 81
Mean 104.2
Std Dev 37.08

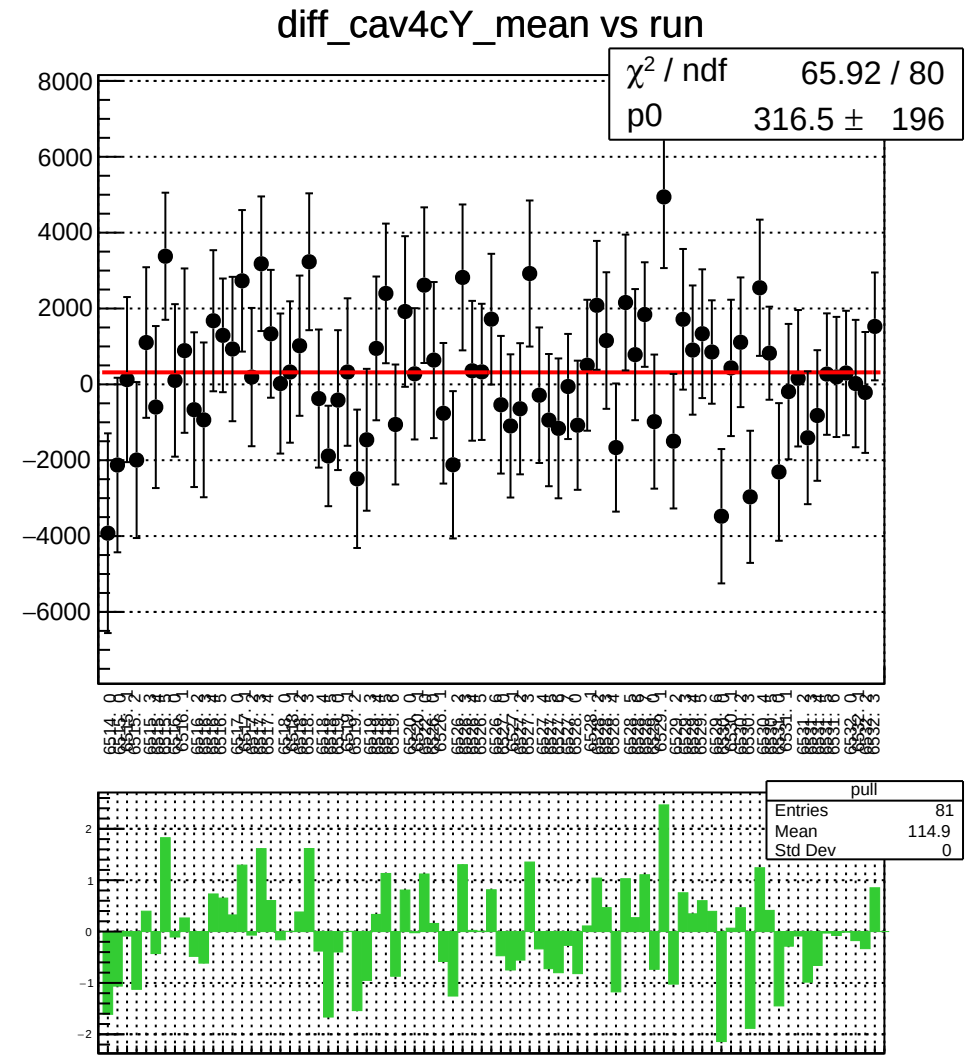

pull1D
Entries 81
Mean −0.008508
Std Dev 0.8994

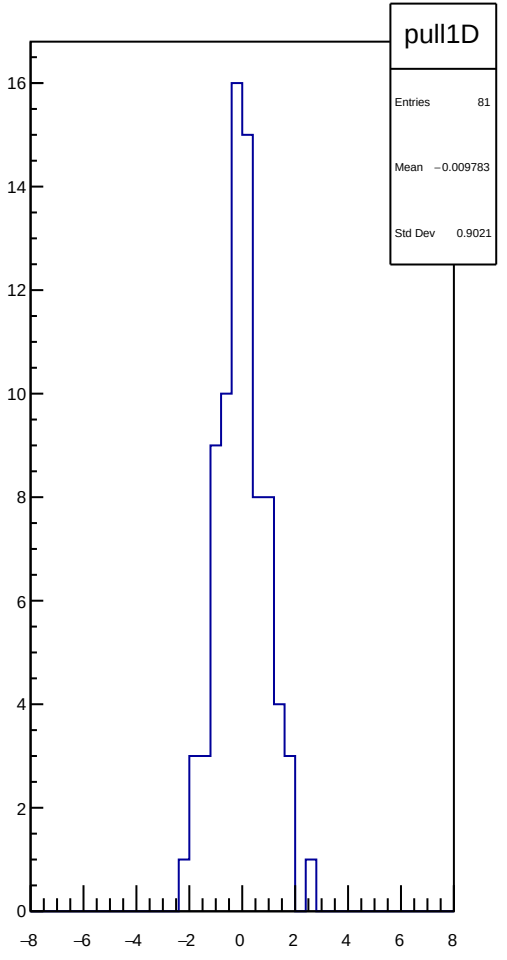

diff_cav4bY_rms vs run
×10^3
440
420
400
380
360
340
320
300
280
260
χ² / ndf 1.416e+04 / 80
p0 3.187e+05 ± 256.2

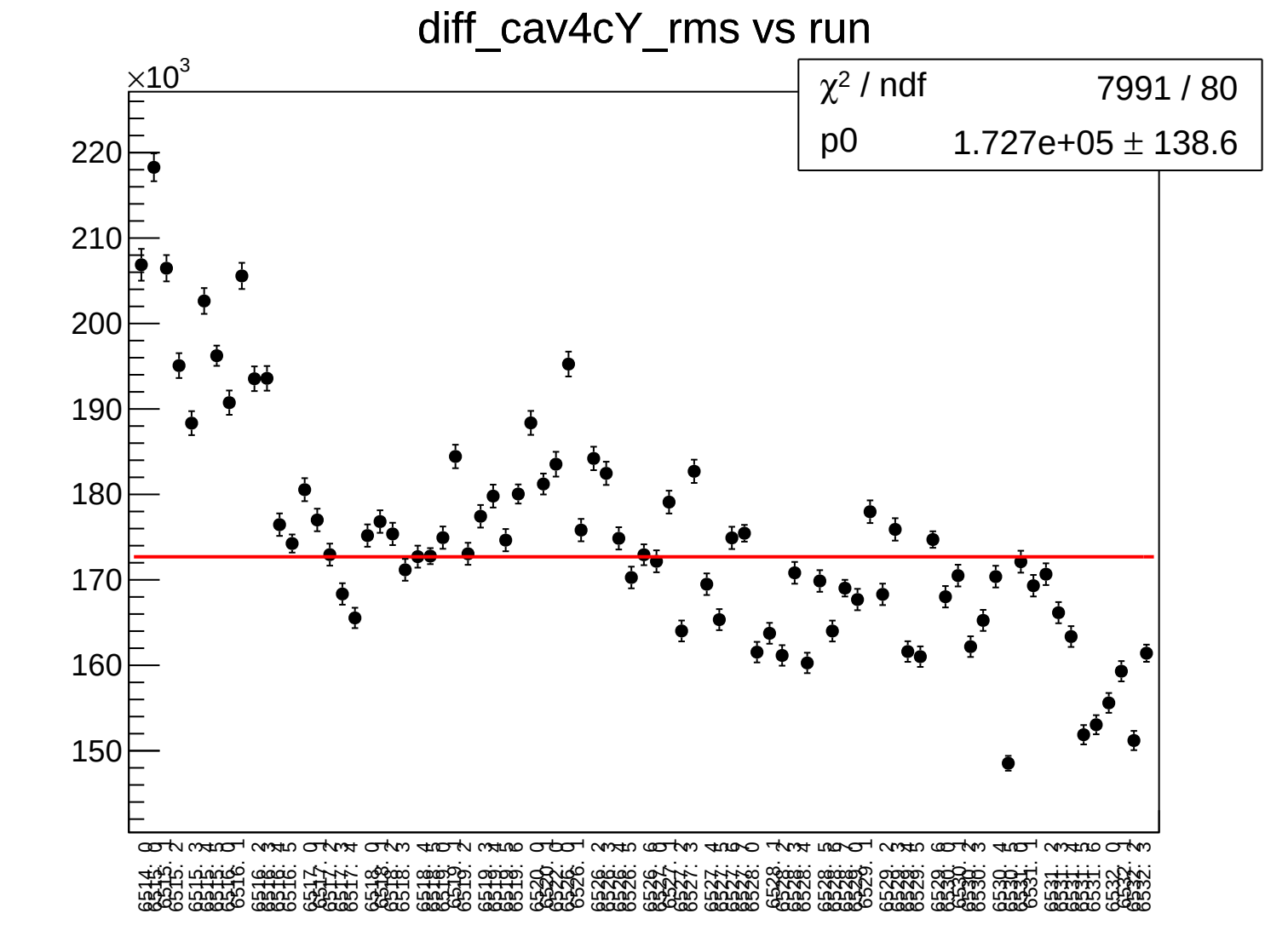

diff_cav4cX_mean vs run
χ^2 / ndf 71.09 / 80
p0 94.22 ± 305.5
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 1288
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

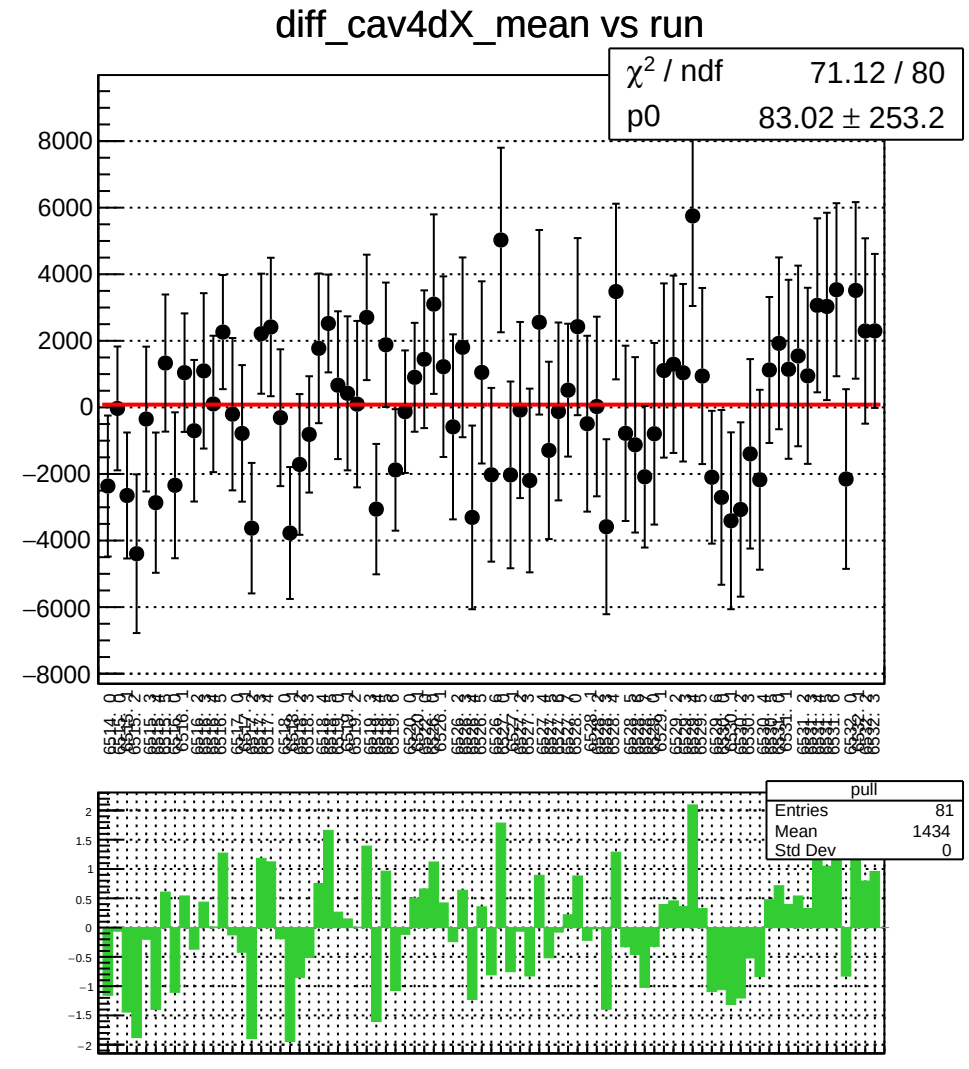

pull1D
Entries 81
Mean 0.003885
Std Dev 0.9368
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

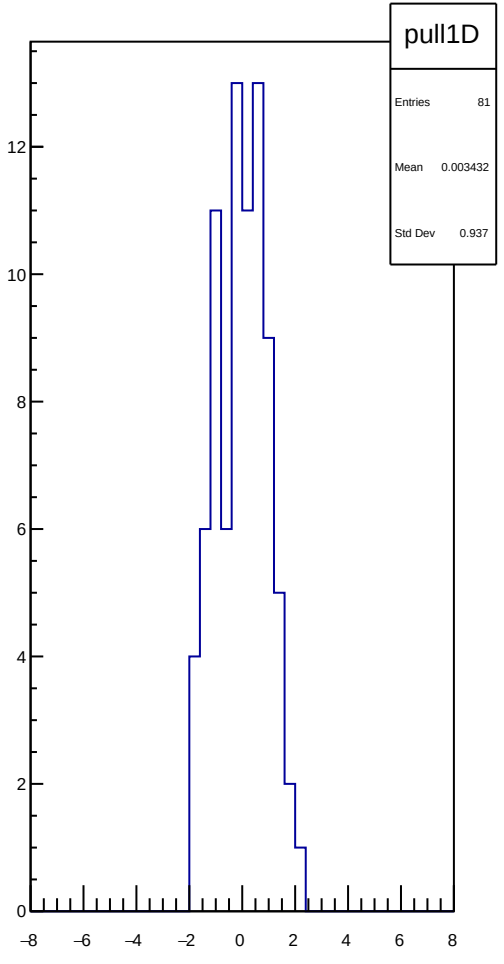

diff_cav4cX_rms vs run
×10^3
340
320
300
280
260
240
220
200
χ² / ndf 3.66e+04 / 80
p0 2.667e+05 ± 216

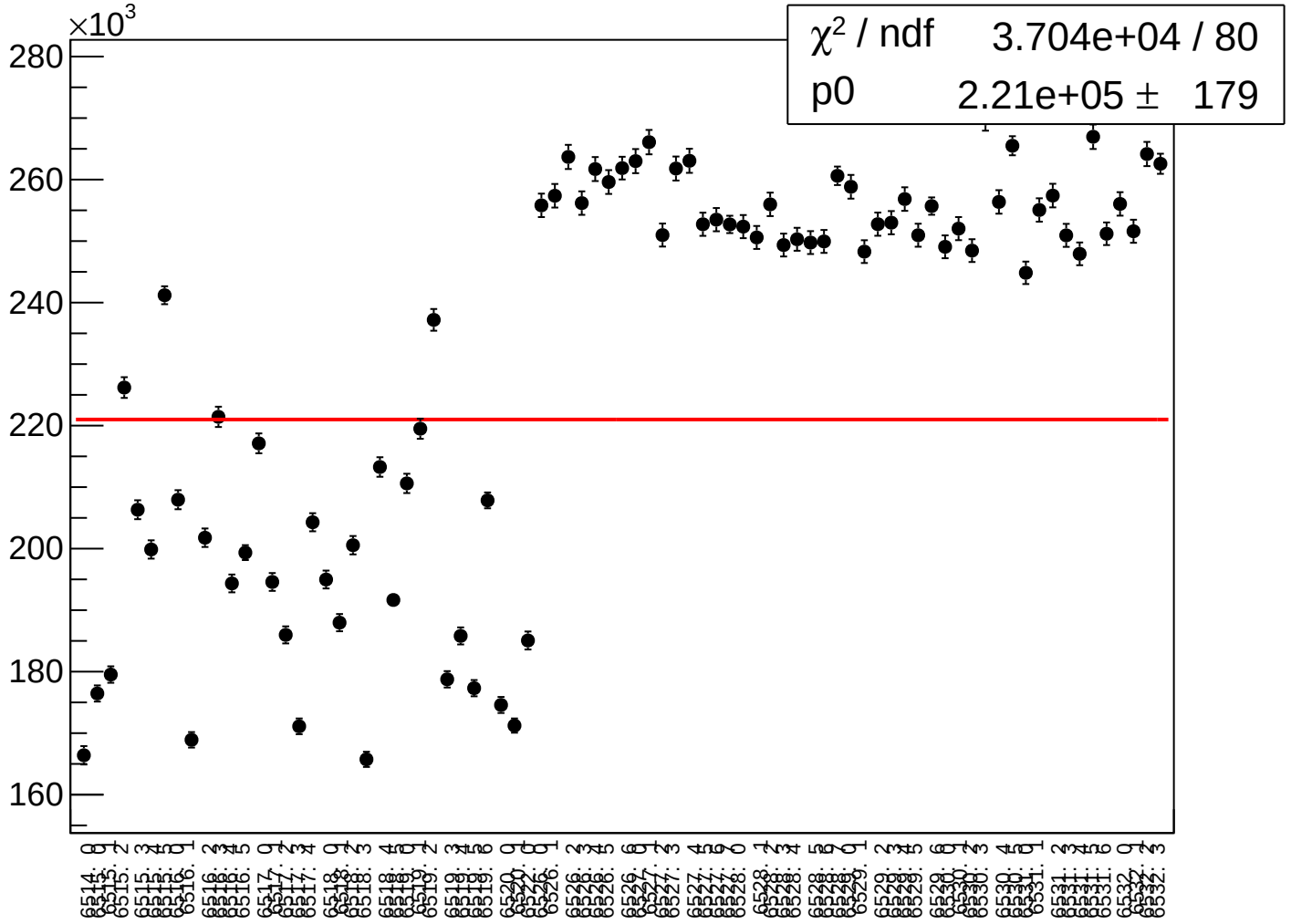

diff_cav4cY_mean vs run
χ² / ndf 65.92 / 80
p0 316.5 ± 196
pull
Entries 81
Mean 114.9
Std Dev 0

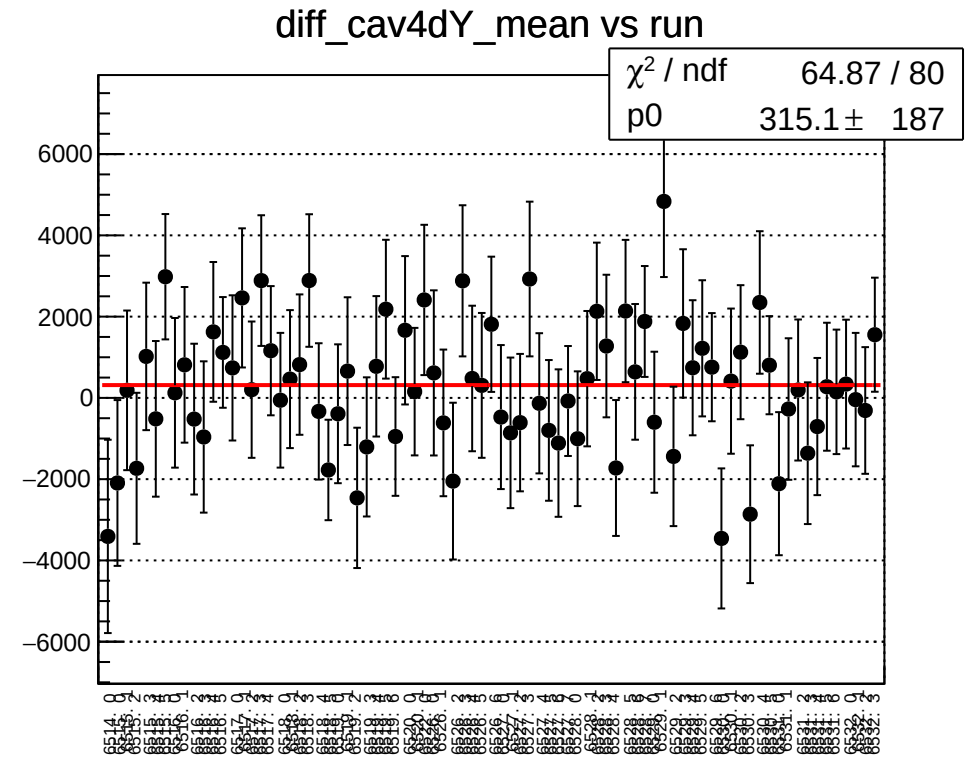

pull1D
Entries 81
Mean −0.009783
Std Dev 0.9021

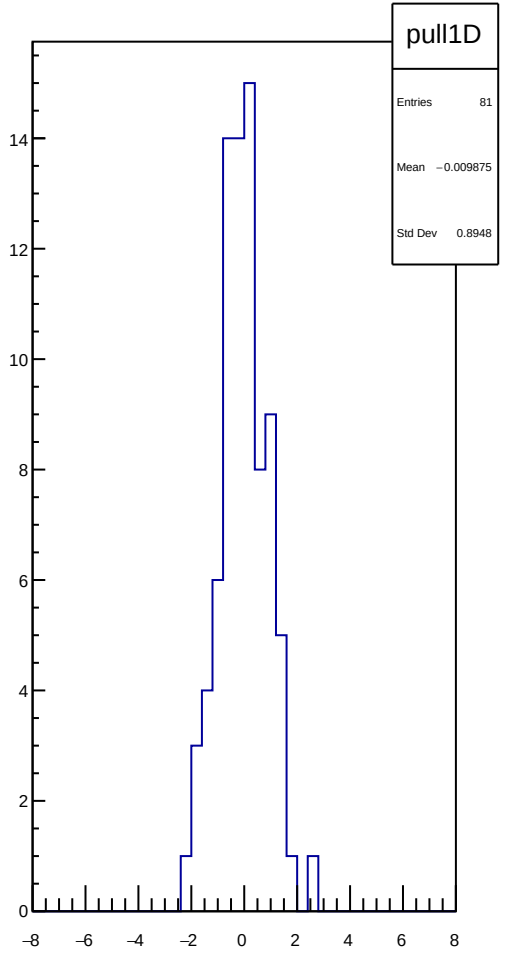

diff_cav4cY_rms vs run
×10^3
χ² / ndf 7991 / 80
p0 1.727e+05 ± 138.6
220
210
200
190
180
170
160
150

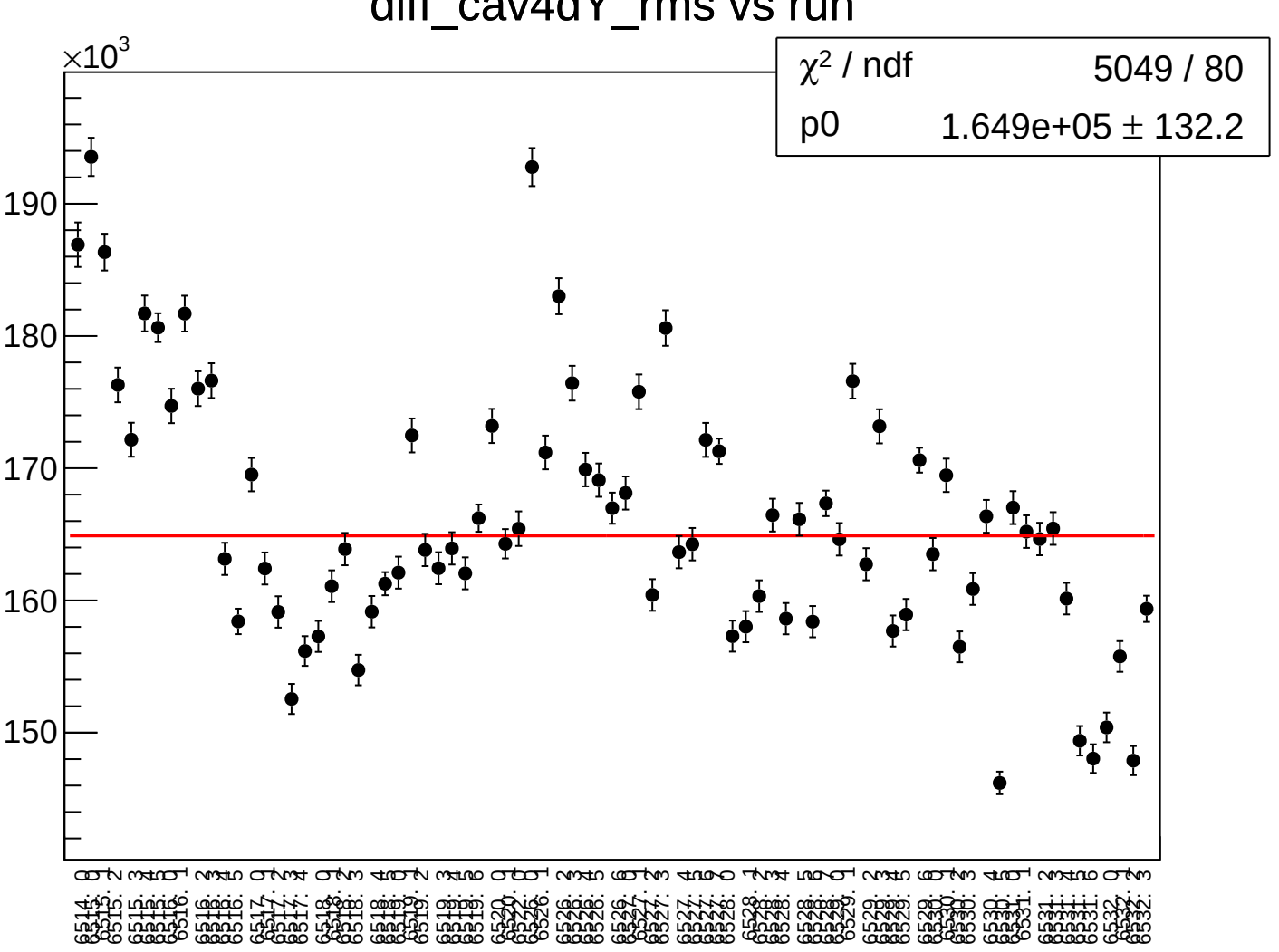

diff_cav4dX_mean vs run
χ² / ndf 71.12 / 80
p0 83.02 ± 253.2
pull
Entries 81
Mean 1434
Std Dev 0

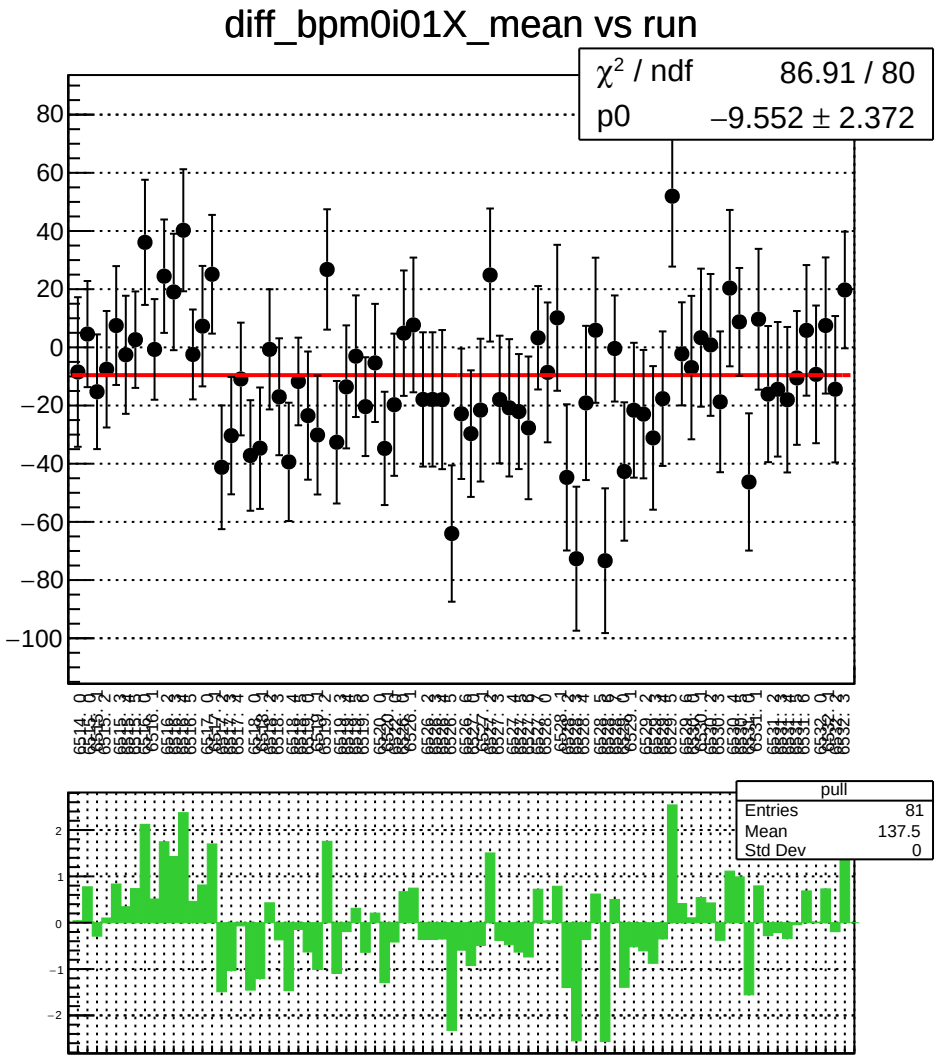

pull1D
Entries 81
Mean 0.003432
Std Dev 0.937

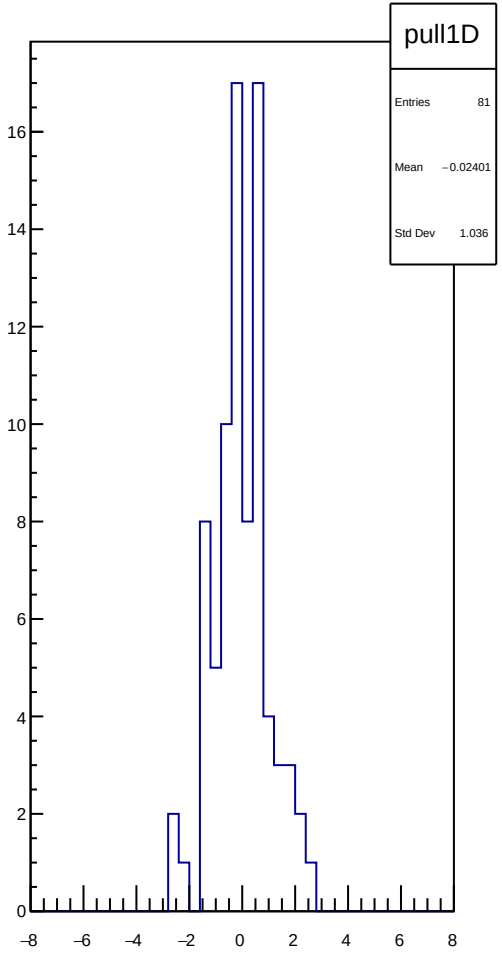

diff_cav4dX_rms vs run
×10^3
280
260
240
220
200
180
160
χ² / ndf 3.704e+04 / 80
p0 2.21e+05 ± 179

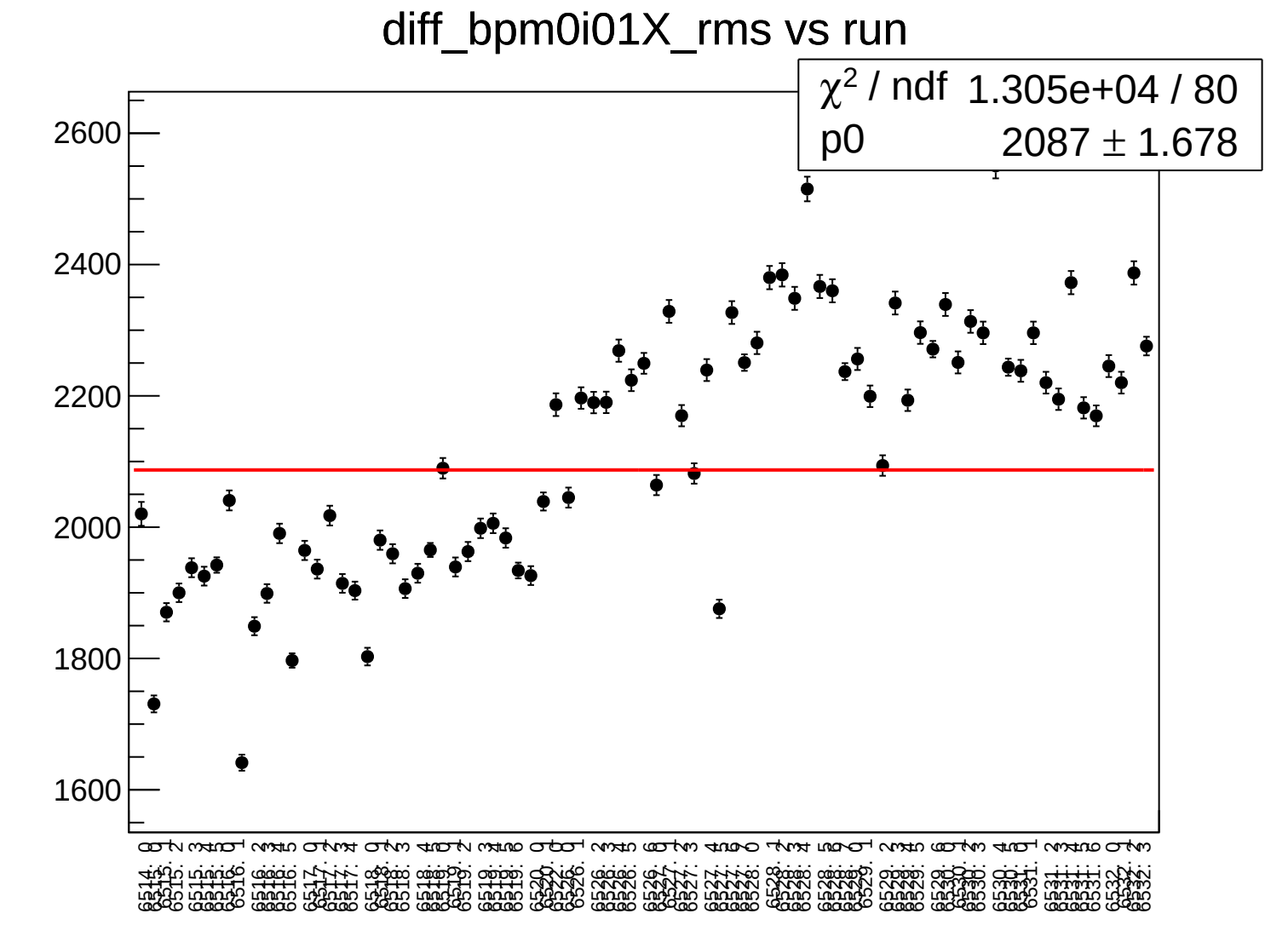

diff_cav4dY_mean vs run
χ² / ndf 64.87 / 80
p0 315.1 ± 187
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 81
Mean 97.48
Std Dev 47.26
2
1
0
−1
−2

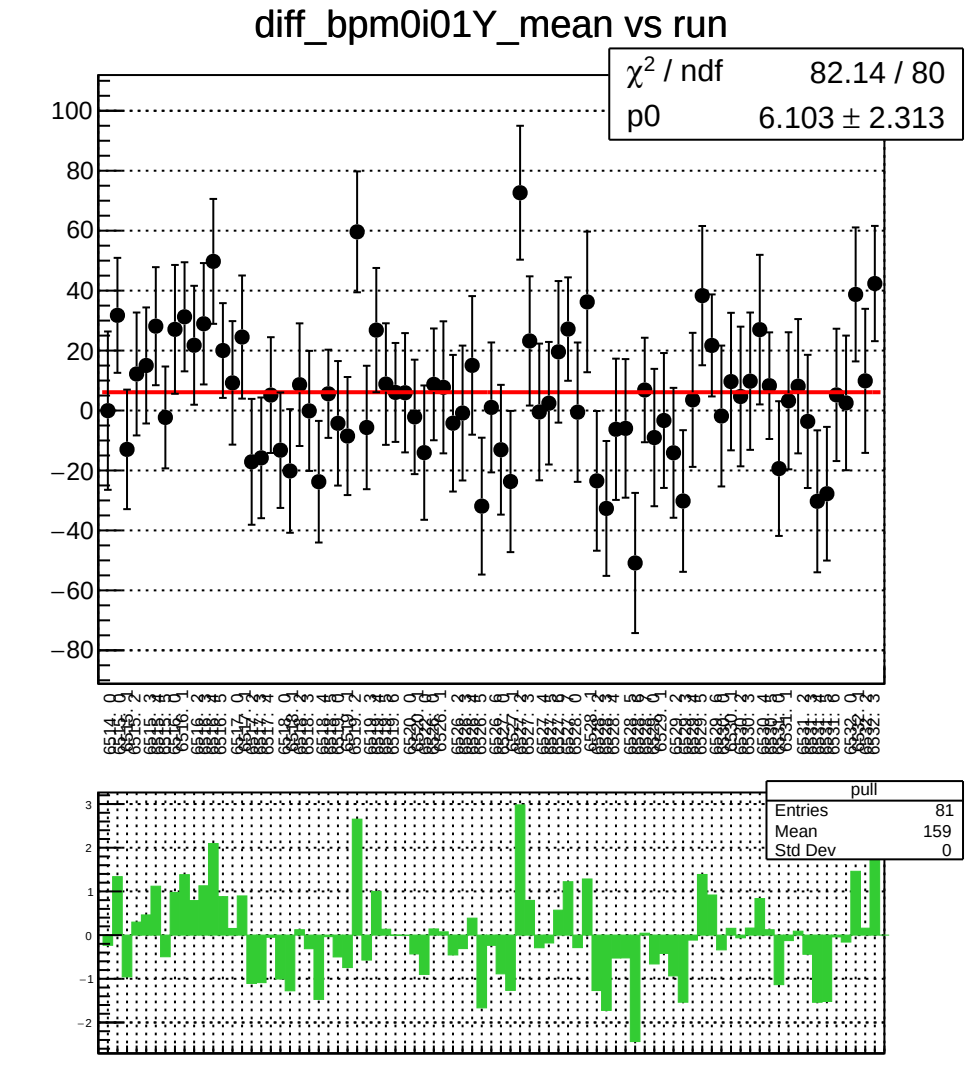

pull1D
Entries 81
Mean −0.009875
Std Dev 0.8948
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

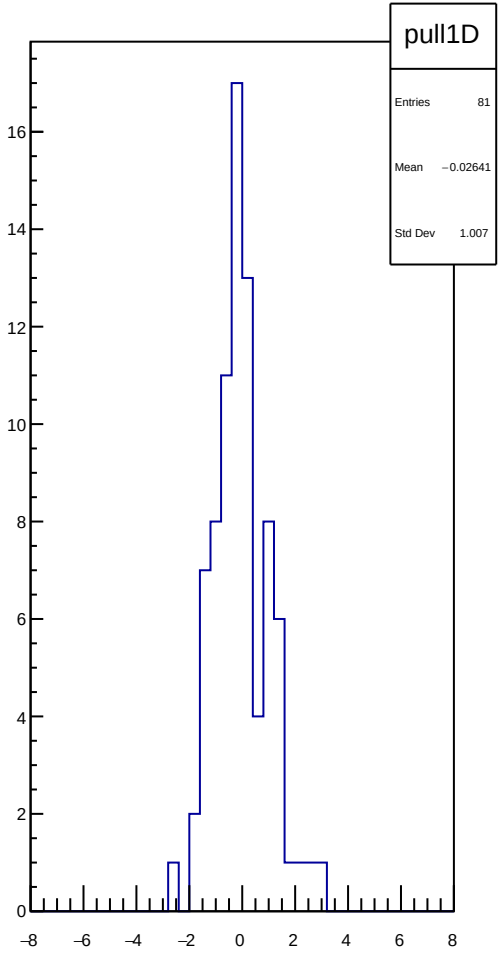

diff_cav4dY_rms vs run
×10^3
χ² / ndf 5049 / 80
p0 1.649e+05 ± 132.2
190
180
170
160
150

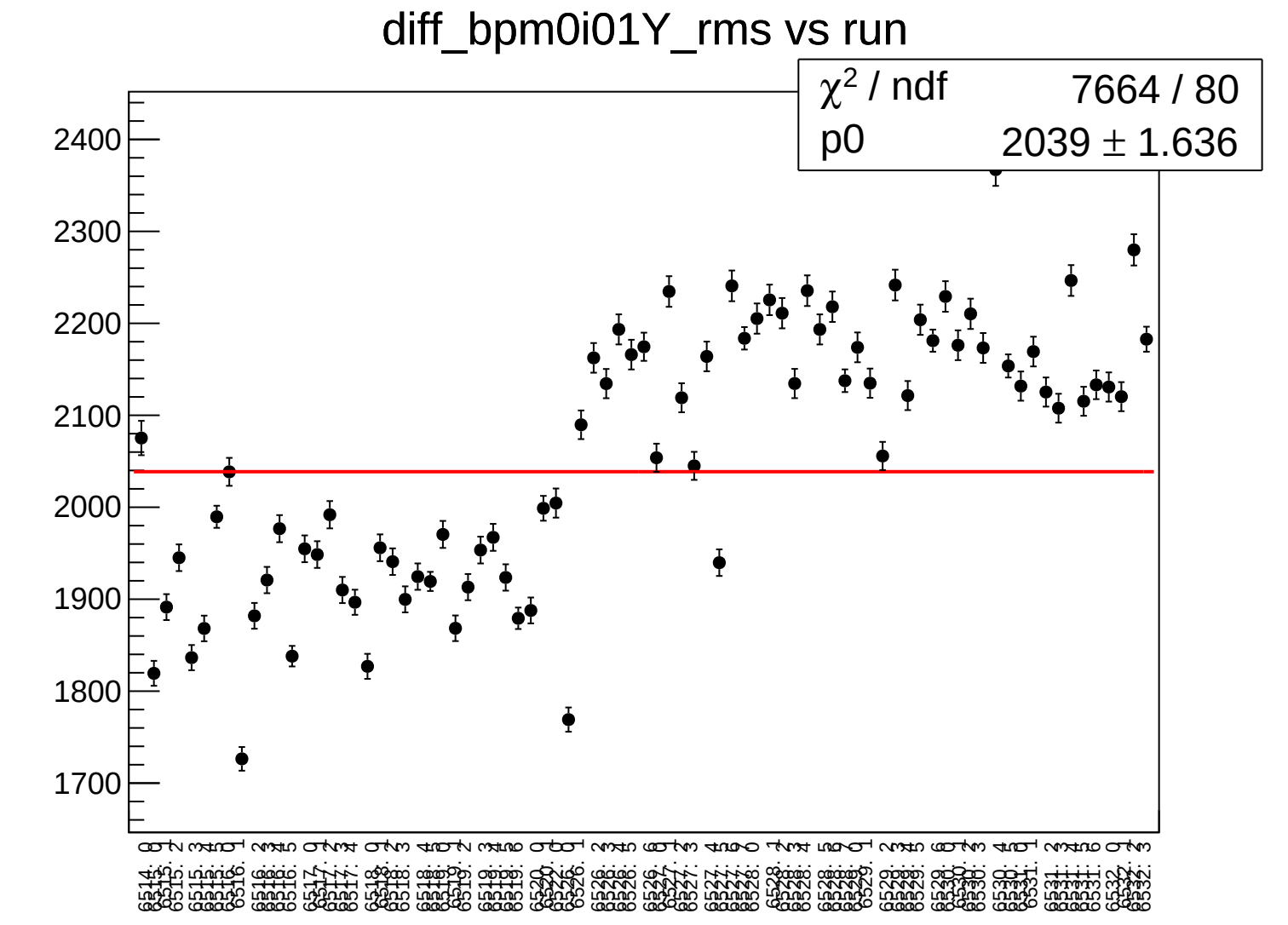

diff_bpm0i01X_mean vs run
χ² / ndf 86.91 / 80
p0 −9.552 ± 2.372
pull
Entries 81
Mean 137.5
Std Dev 0

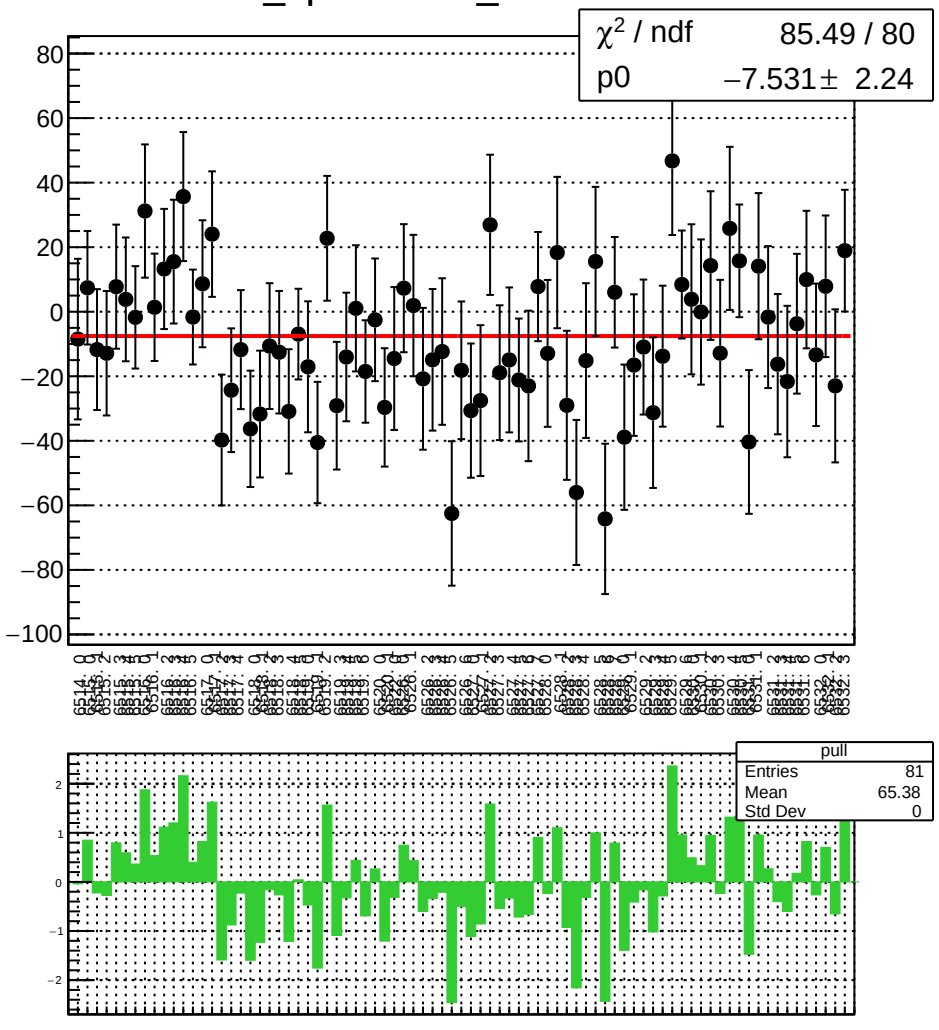

pull1D
Entries 81
Mean −0.02401
Std Dev 1.036

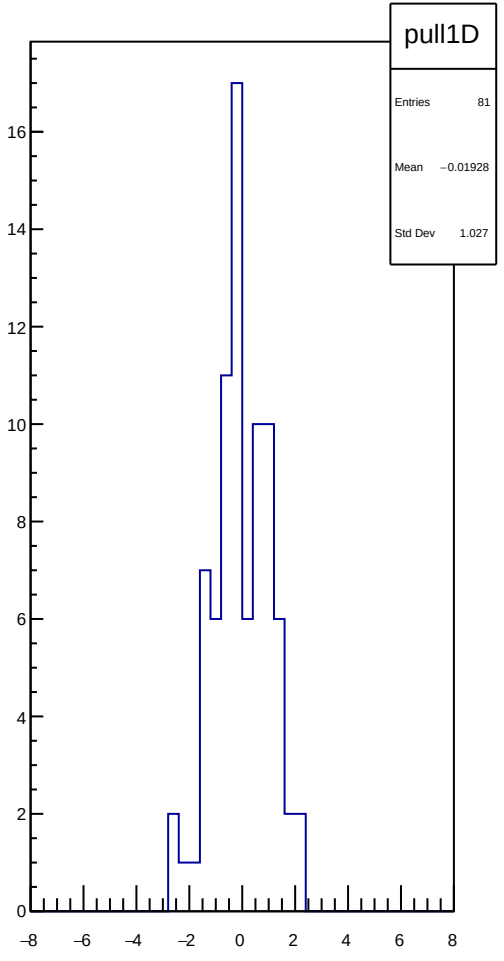

diff_bpm0i01X_rms vs run
χ² / ndf 1.305e+04 / 80
p0 2087 ± 1.678
2600
2400
2200
2000
1800
1600

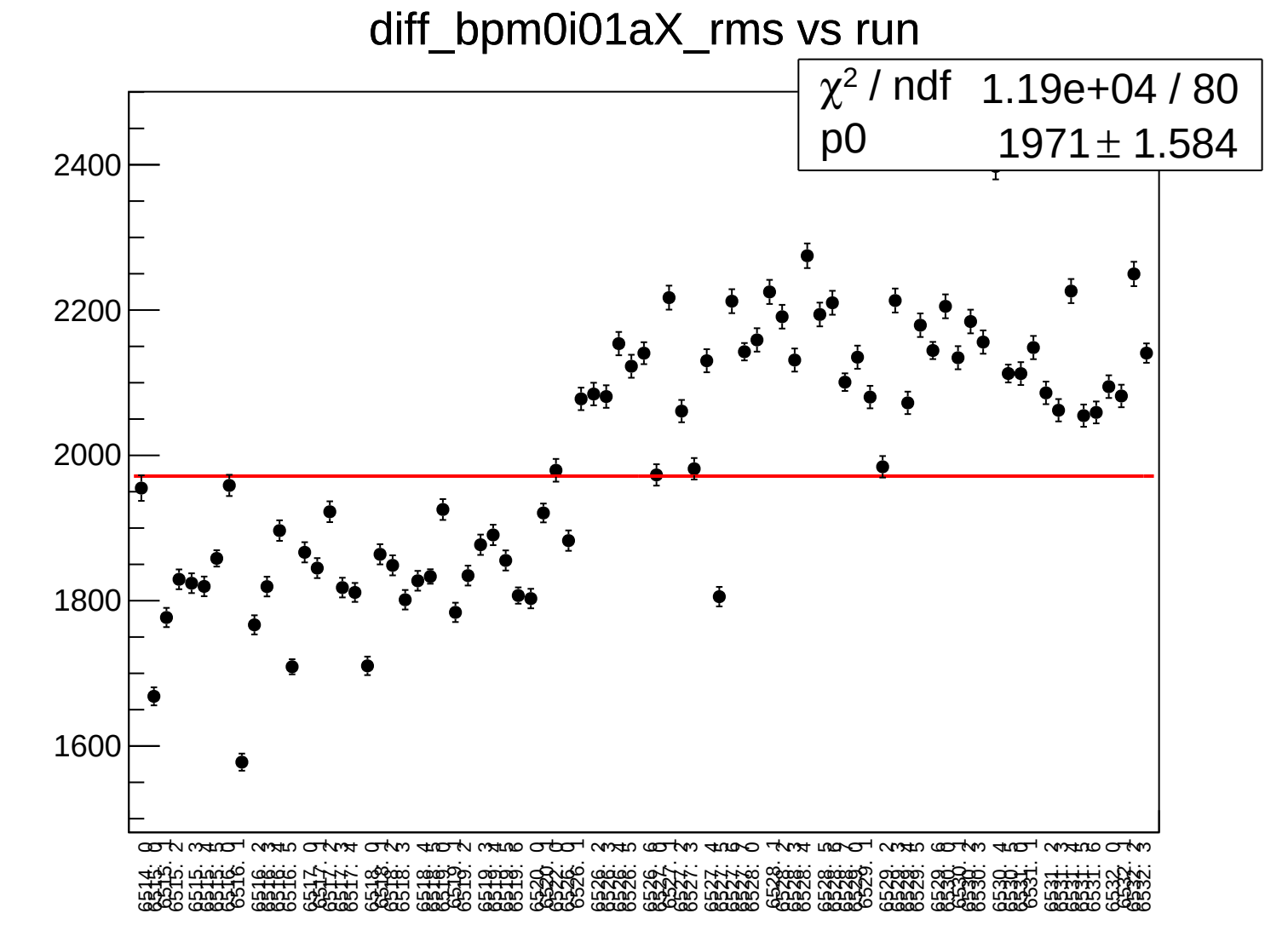

diff_bpm0i01Y_mean vs run
χ^2 / ndf 82.14 / 80
p0 6.103 ± 2.313
pull
Entries 81
Mean 159
Std Dev 0

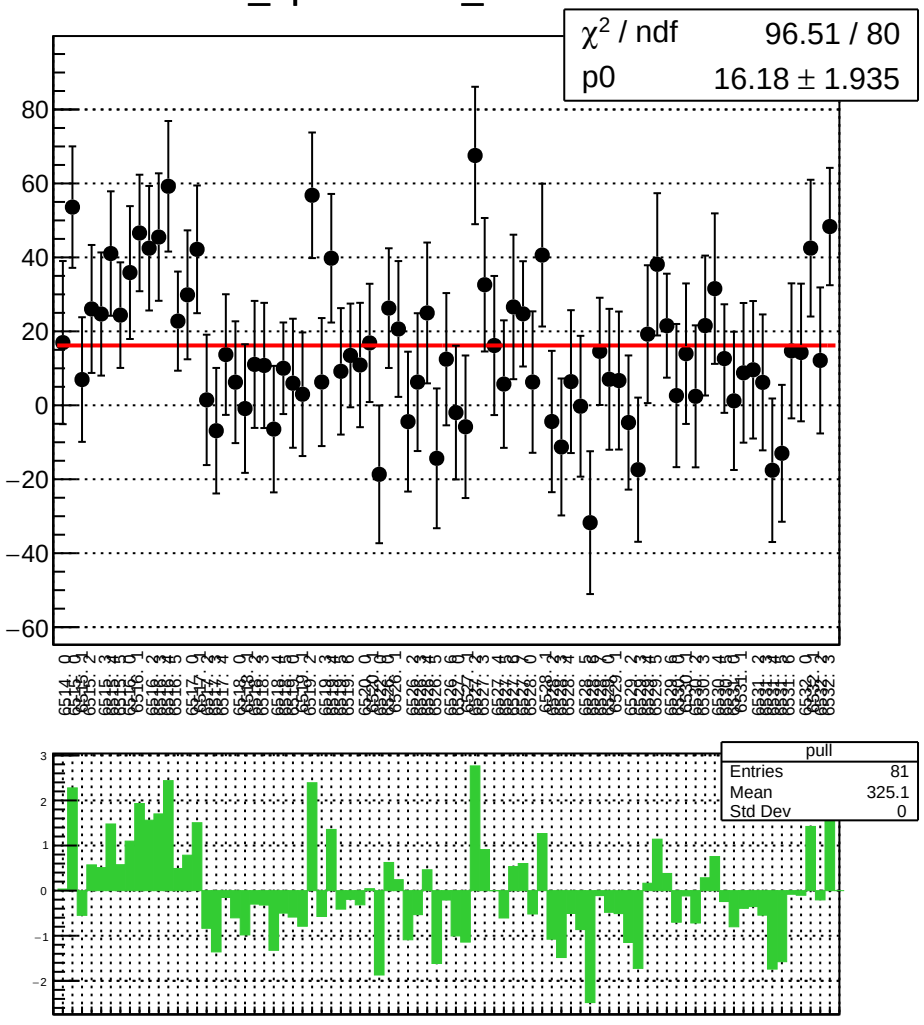

pull1D
Entries 81
Mean −0.02641
Std Dev 1.007

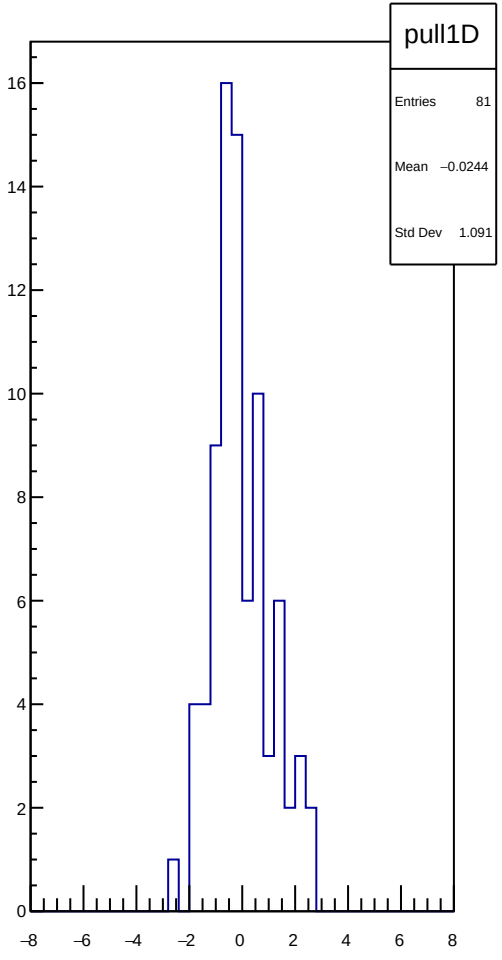

diff_bpm0i01Y_rms vs run
χ² / ndf 7664 / 80
p0 2039 ± 1.636
2400
2300
2200
2100
2000
1900
1800
1700

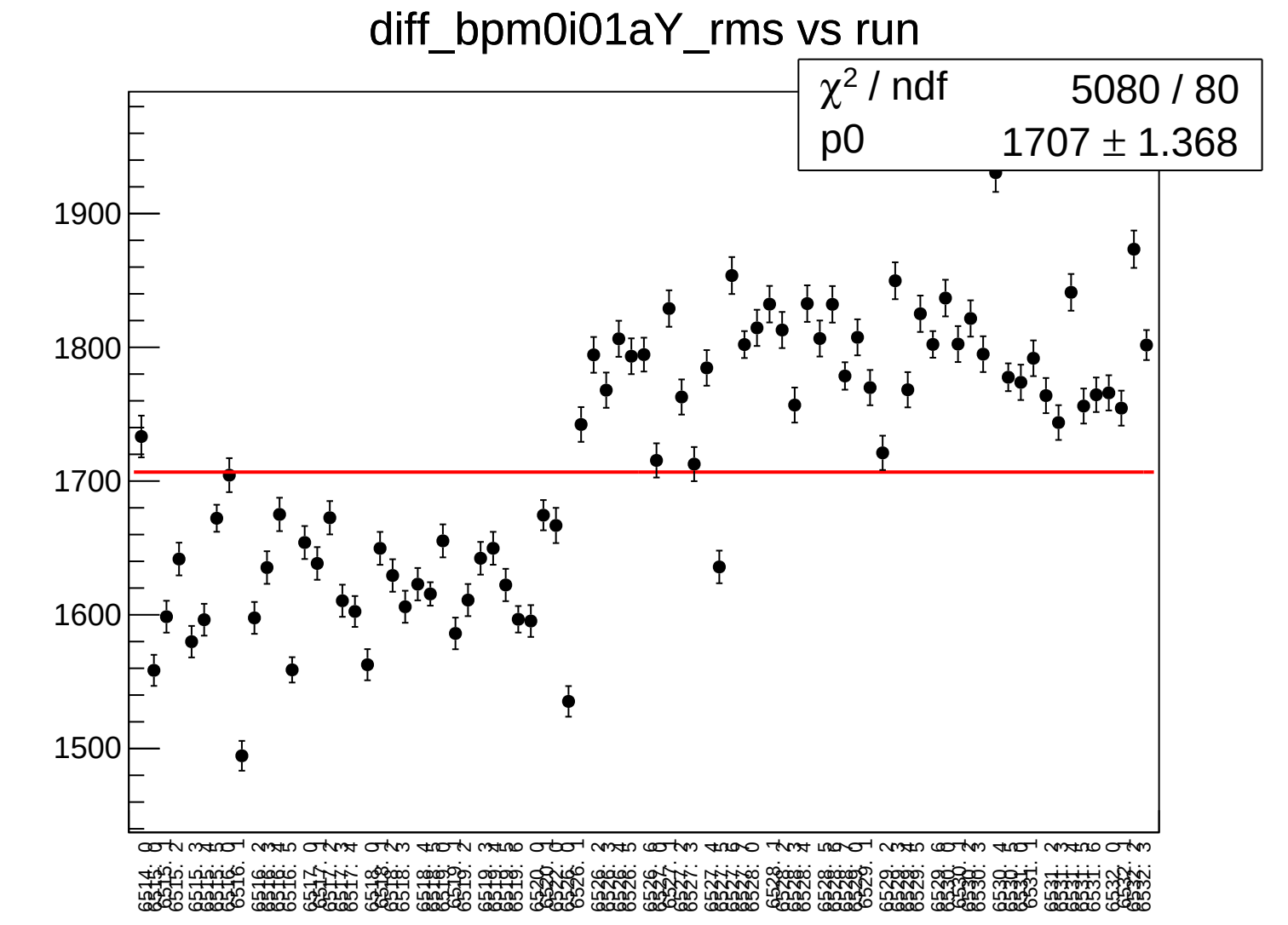

diff_bpm0i01aX_mean vs run
χ² / ndf 85.49 / 80
p0 −7.531± 2.24
pull
Entries 81
Mean 65.38
Std Dev 0

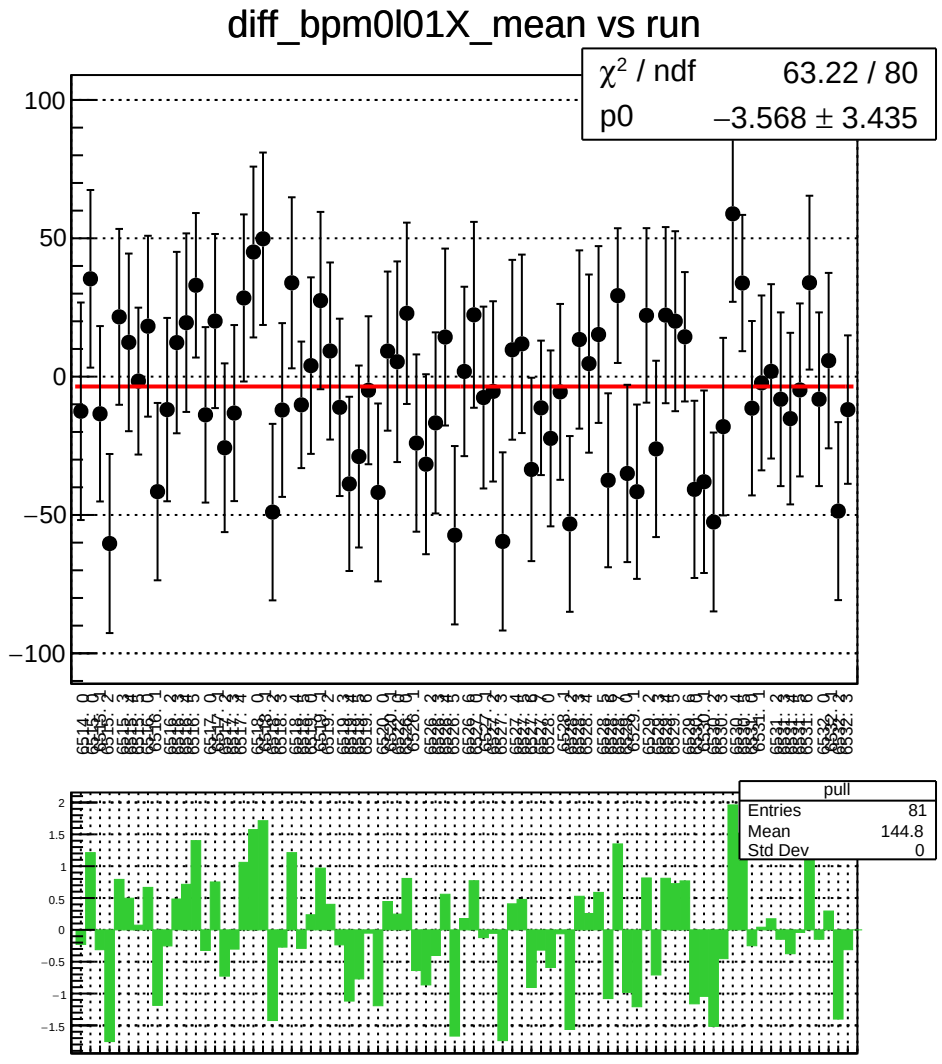

pull1D
Entries 81
Mean −0.01928
Std Dev 1.027

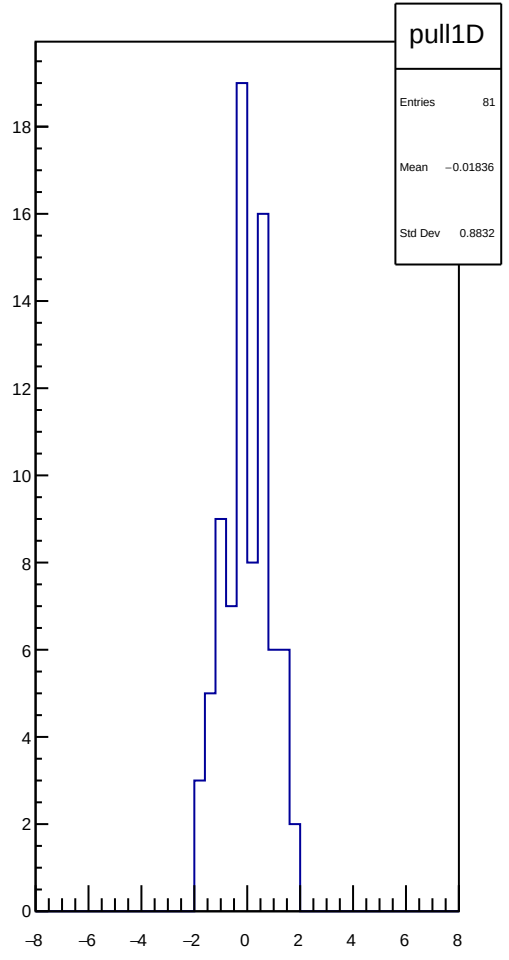

diff_bpm0i01aX_rms vs run
χ² / ndf 1.19e+04 / 80
p0 1971 ± 1.584
2400
2200
2000
1800
1600

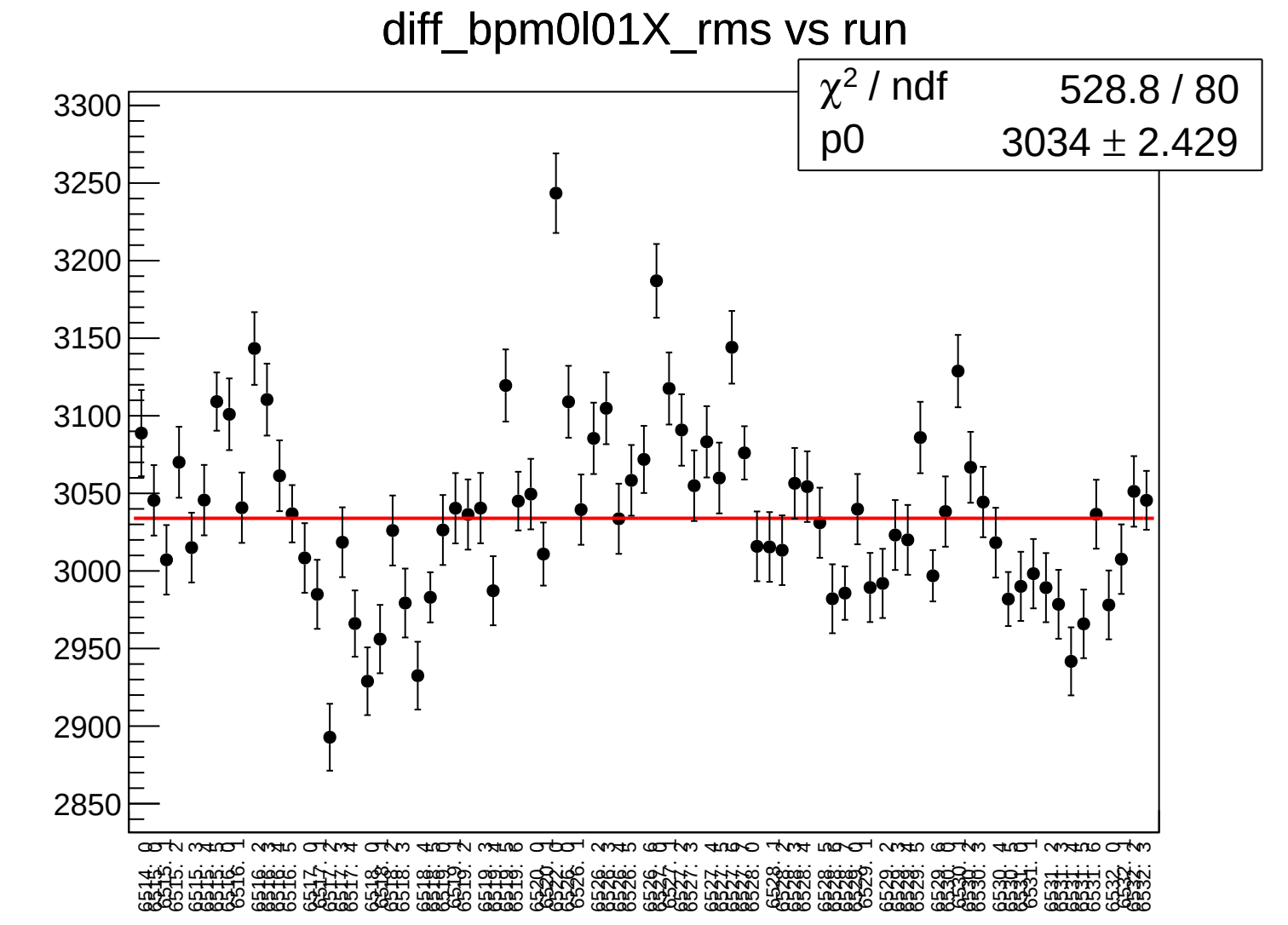

diff_bpm0i01aY_mean vs run
χ² / ndf 96.51 / 80
p0 16.18 ± 1.935
pull
Entries 81
Mean 325.1
Std Dev 0

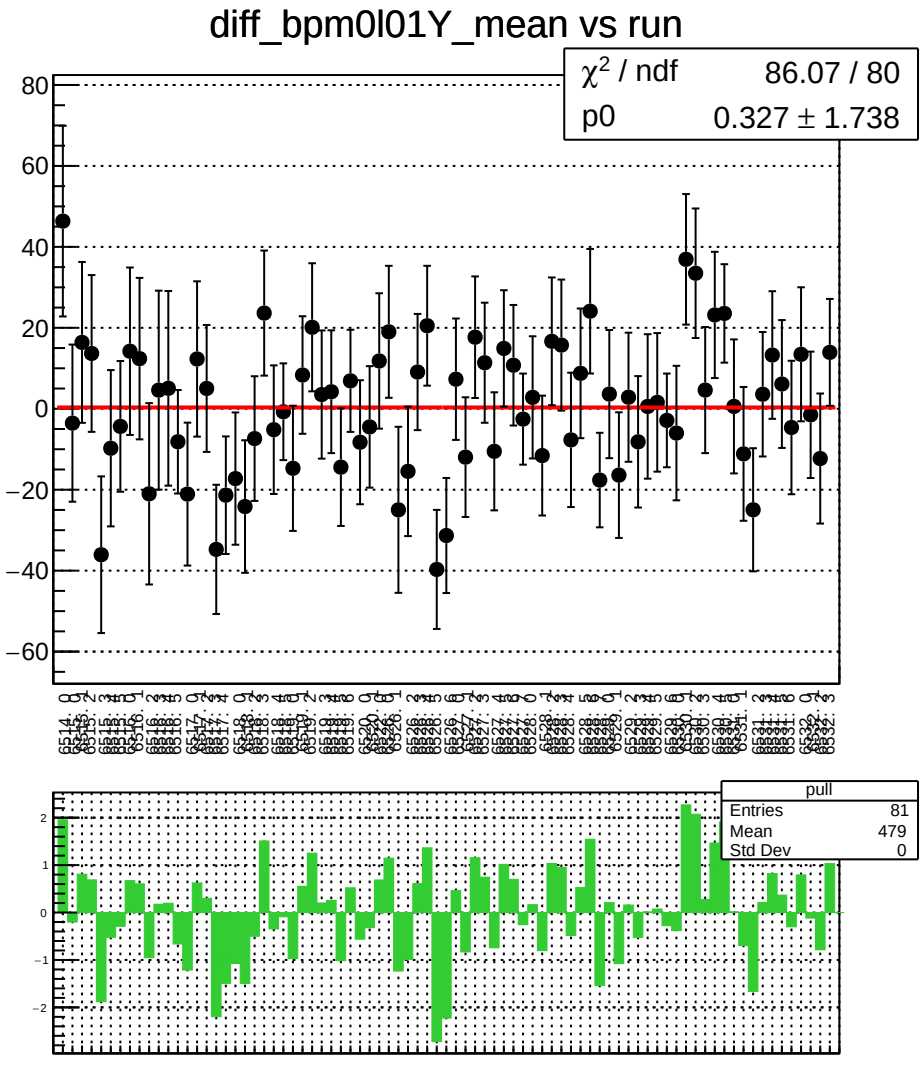

pull1D
Entries 81
Mean −0.0244
Std Dev 1.091

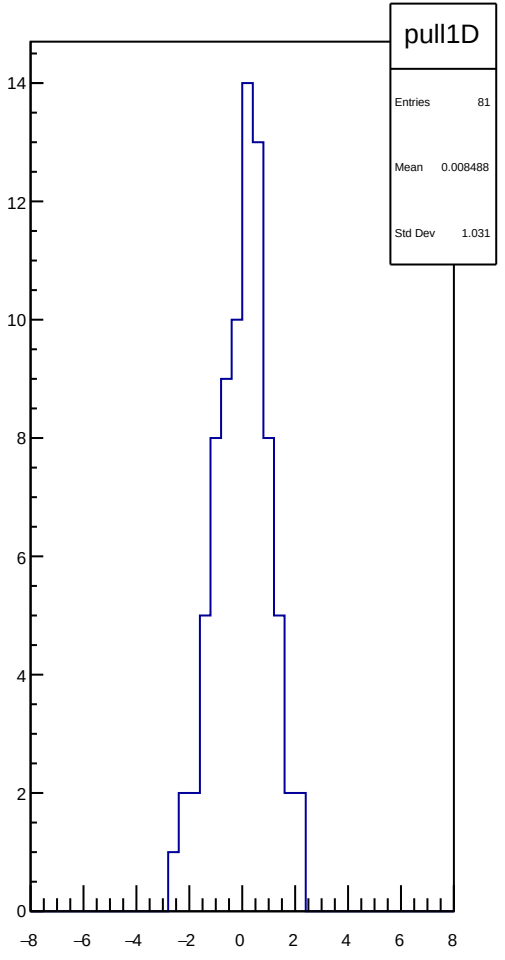

diff_bpm0i01aY_rms vs run
χ² / ndf 5080 / 80
p0 1707 ± 1.368
1900
1800
1700
1600
1500

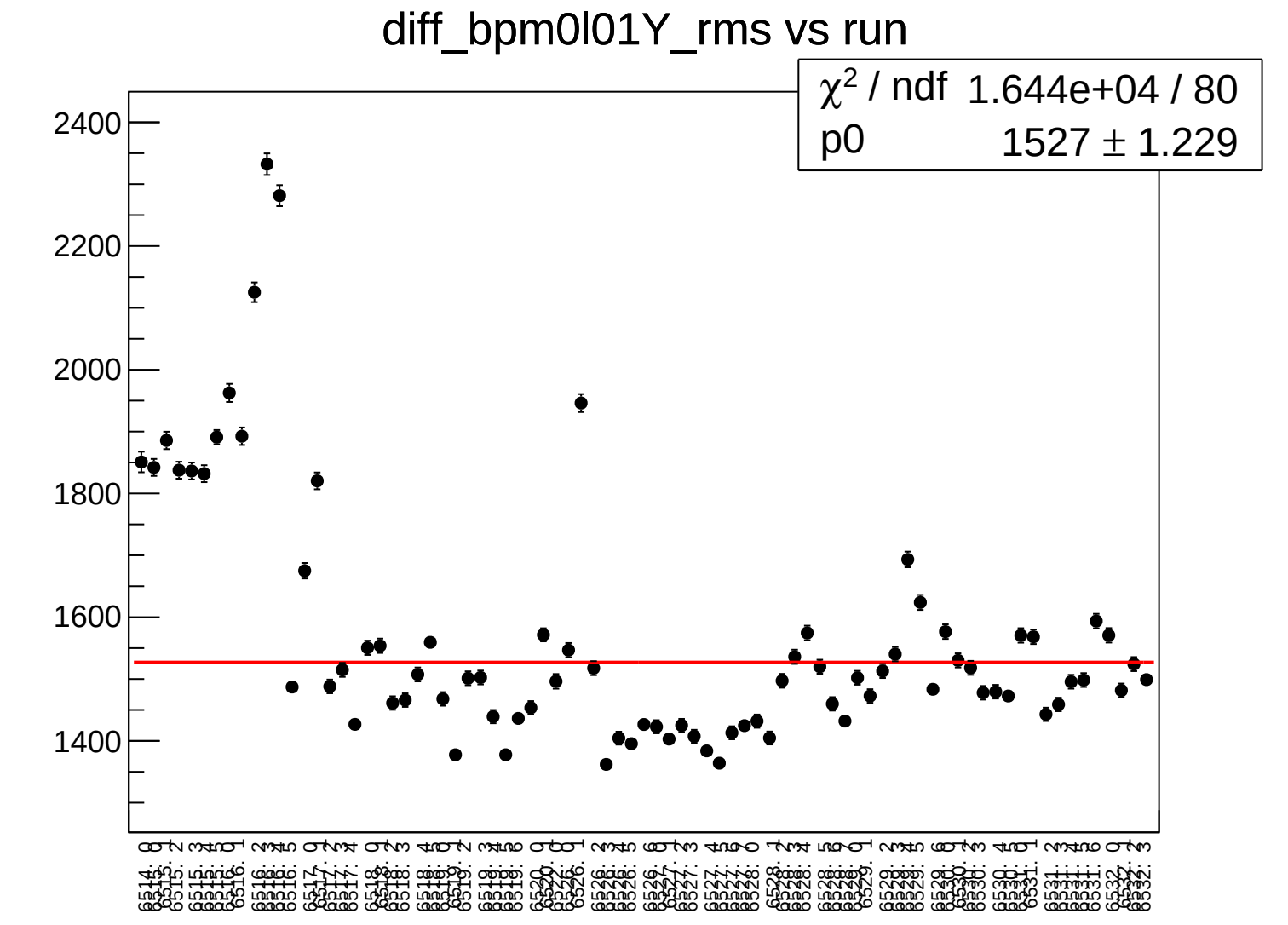

diff_bpm0l01X_mean vs run
χ² / ndf 63.22 / 80
p0 −3.568 ± 3.435
100
50
0
−50
−100
pull
Entries 81
Mean 144.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

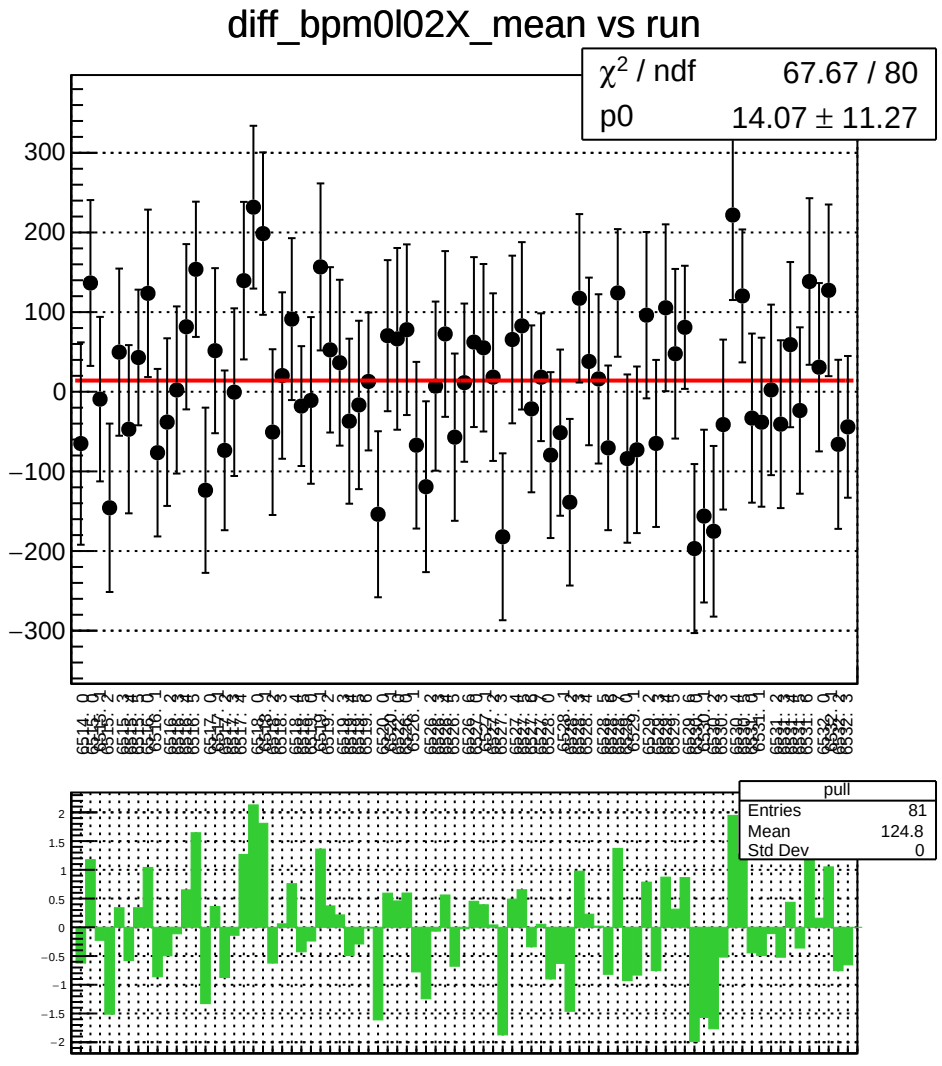

pull1D
Entries 81
Mean −0.01836
Std Dev 0.8832
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

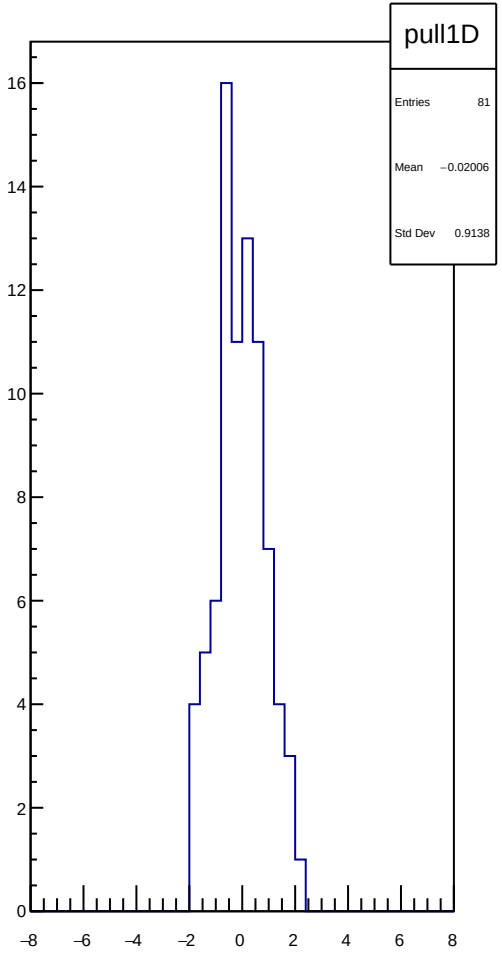

diff_bpm0l01X_rms vs run
χ² / ndf 528.8 / 80
p0 3034 ± 2.429
3300
3250
3200
3150
3100
3050
3000
2950
2900
2850

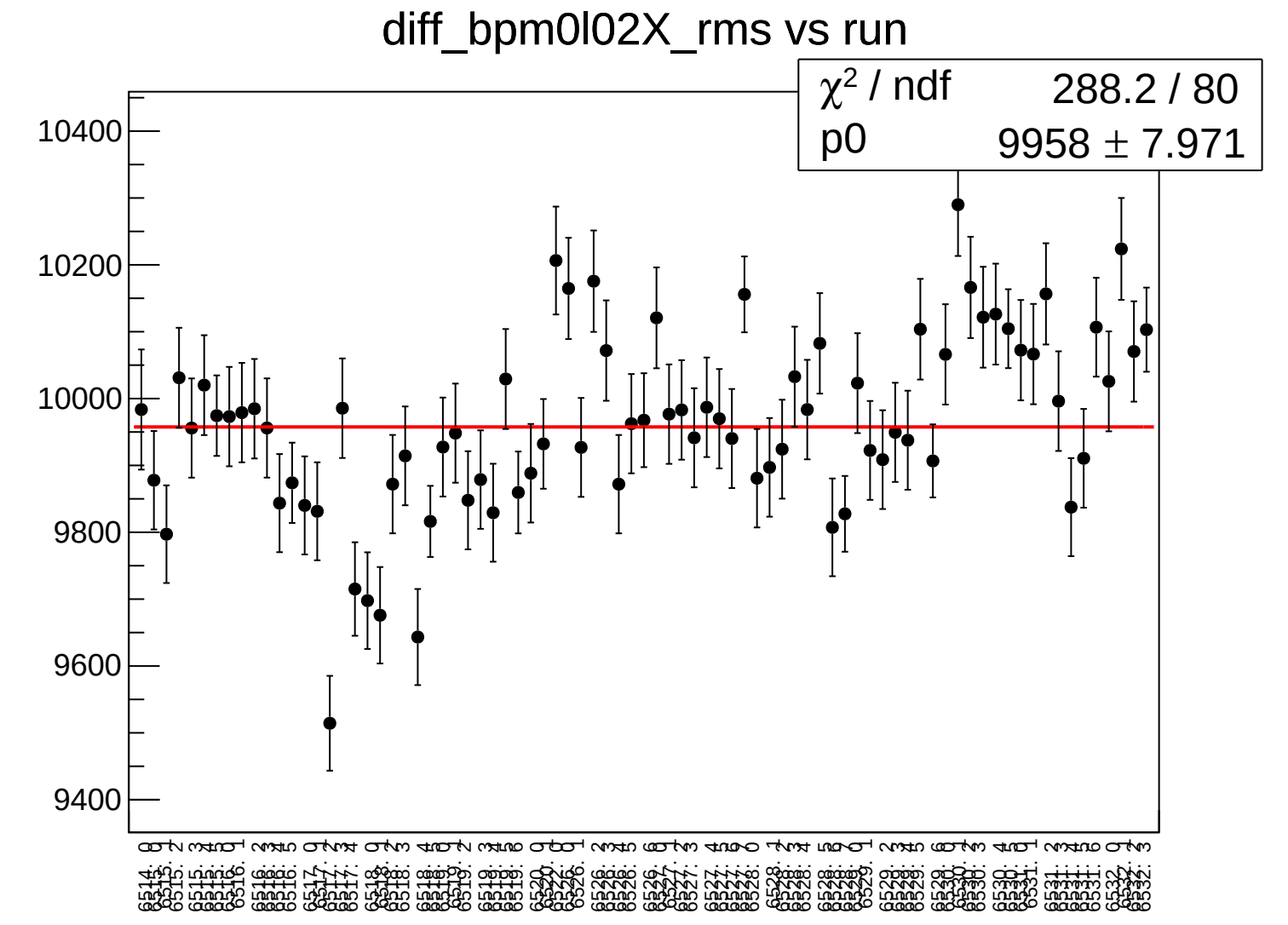

diff_bpm0l01Y_mean vs run
χ^2 / ndf 86.07 / 80
p0 0.327 ± 1.738
pull
Entries 81
Mean 479
Std Dev 0

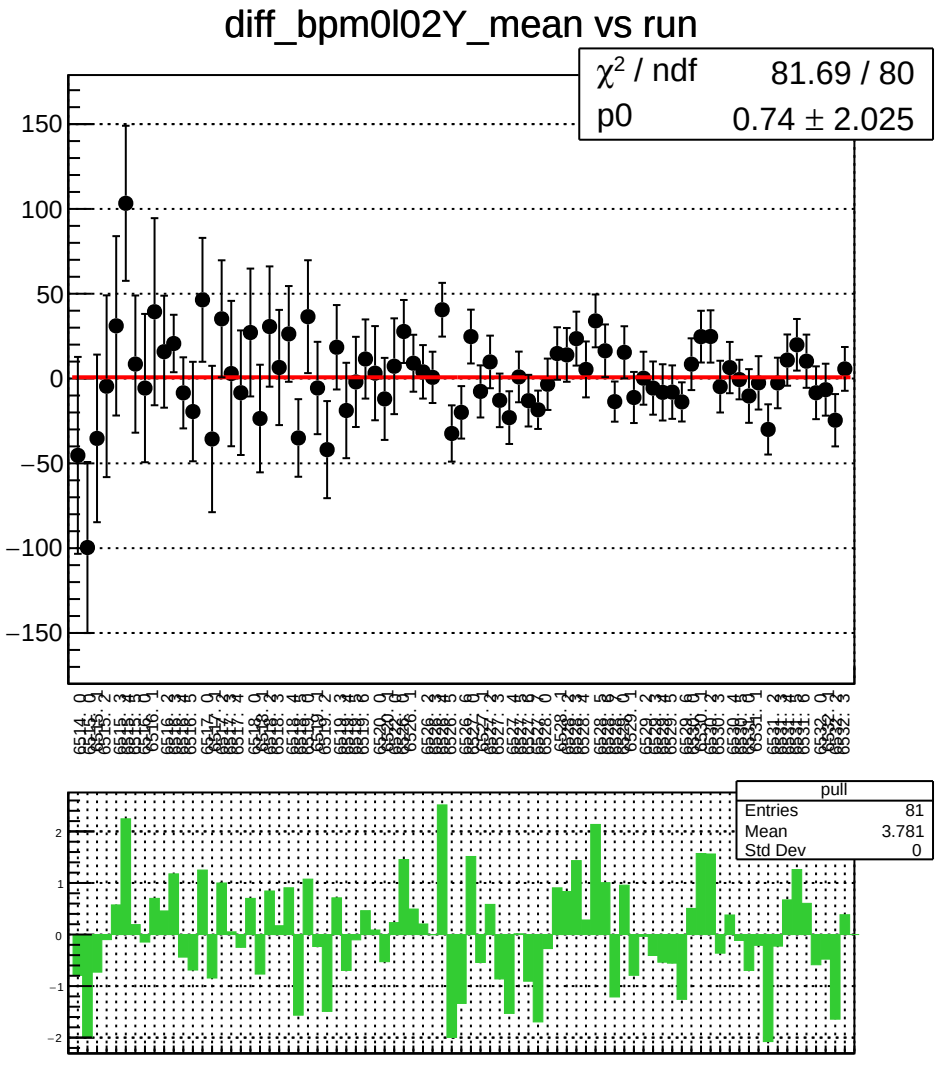

pull1D
Entries 81
Mean 0.008488
Std Dev 1.031

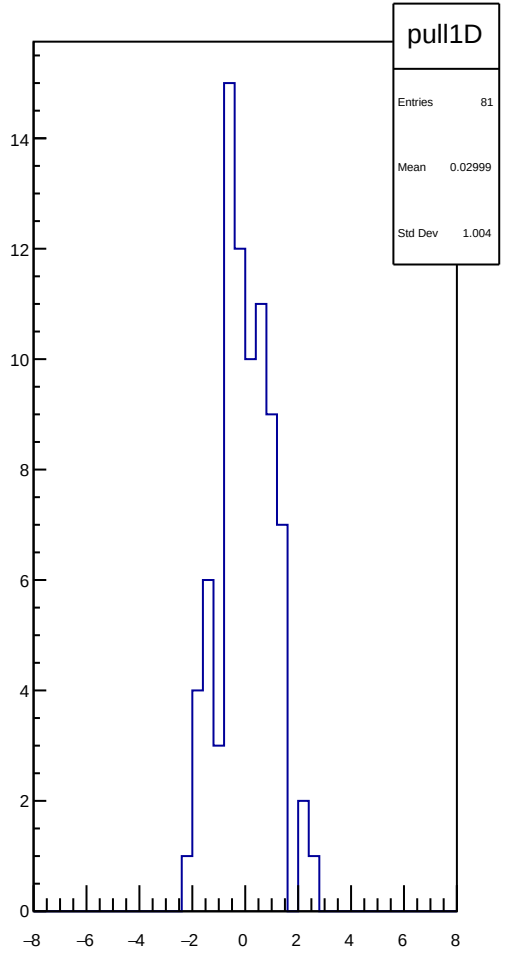

diff_bpm0l01Y_rms vs run
χ² / ndf 1.644e+04 / 80
p0 1527 ± 1.229
2400
2200
2000
1800
1600
1400

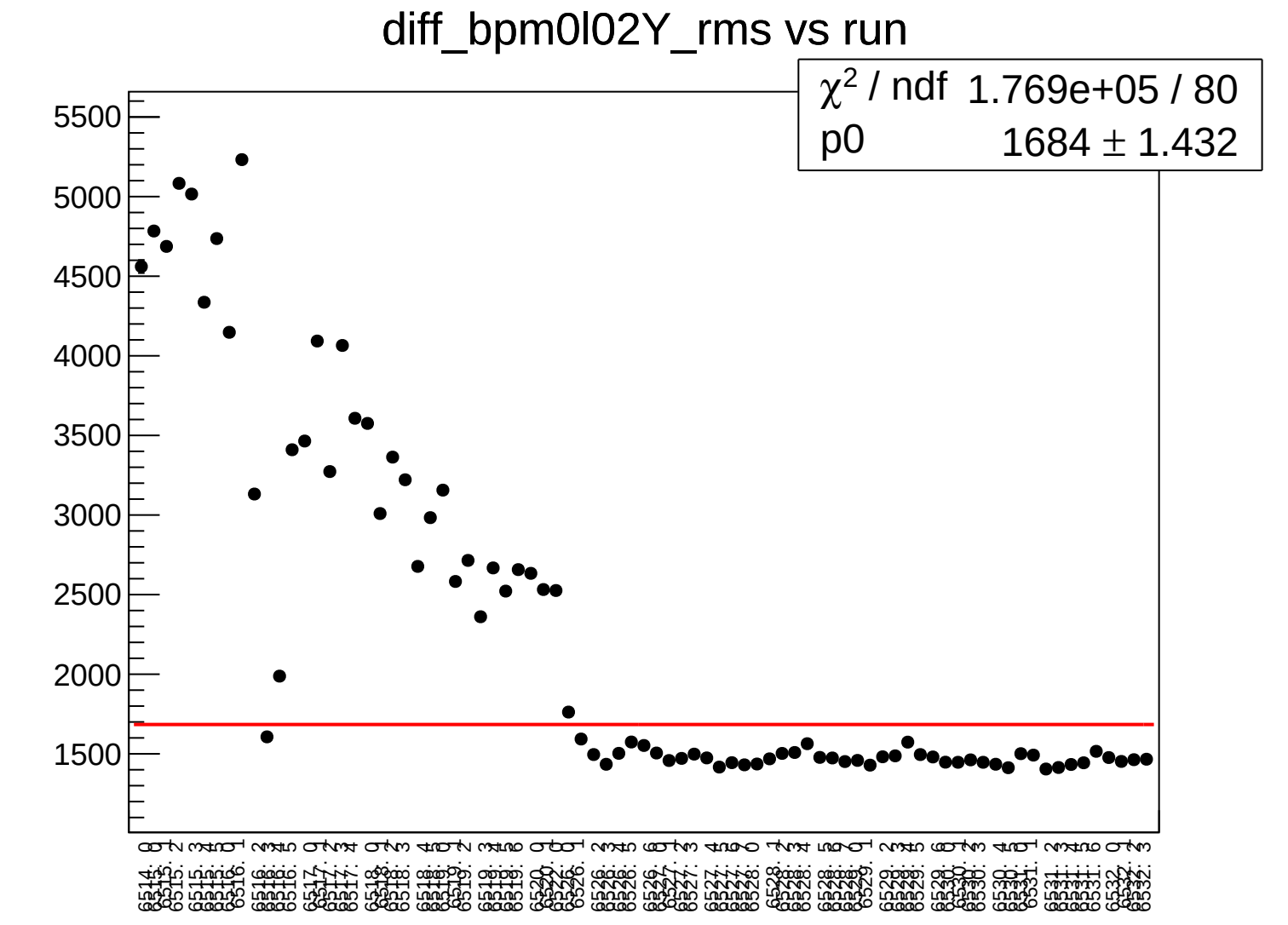

diff_bpm0l02X_mean vs run
χ^2 / ndf 67.67 / 80
p0 14.07 ± 11.27
pull
Entries 81
Mean 124.8
Std Dev 0

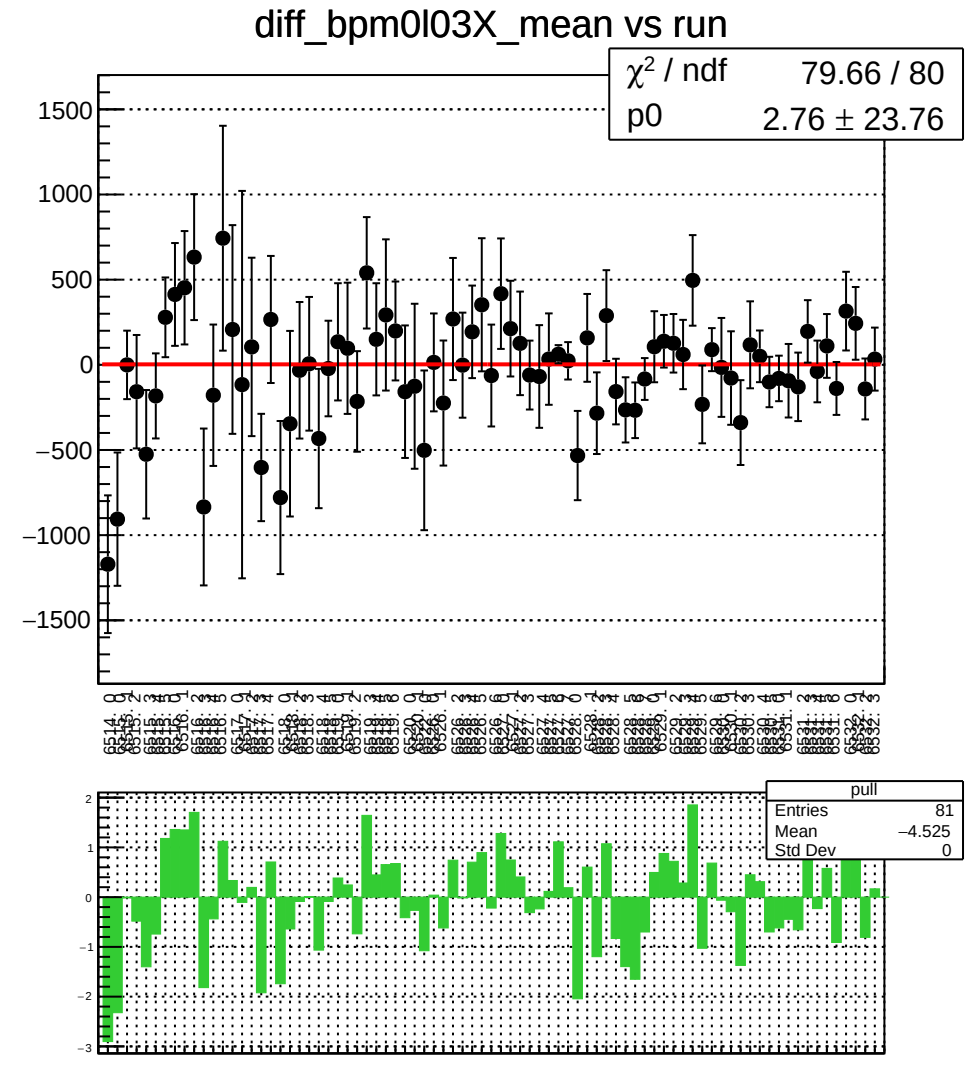

pull1D
Entries 81
Mean −0.02006
Std Dev 0.9138

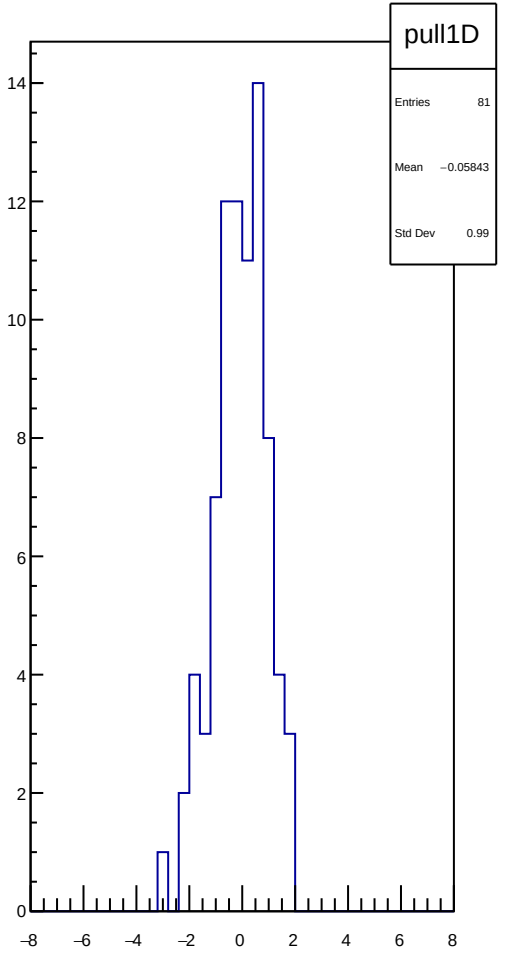

diff_bpm0l02X_rms vs run
χ² / ndf 288.2 / 80
p0 9958 ± 7.971
10400
10200
10000
9800
9600
9400

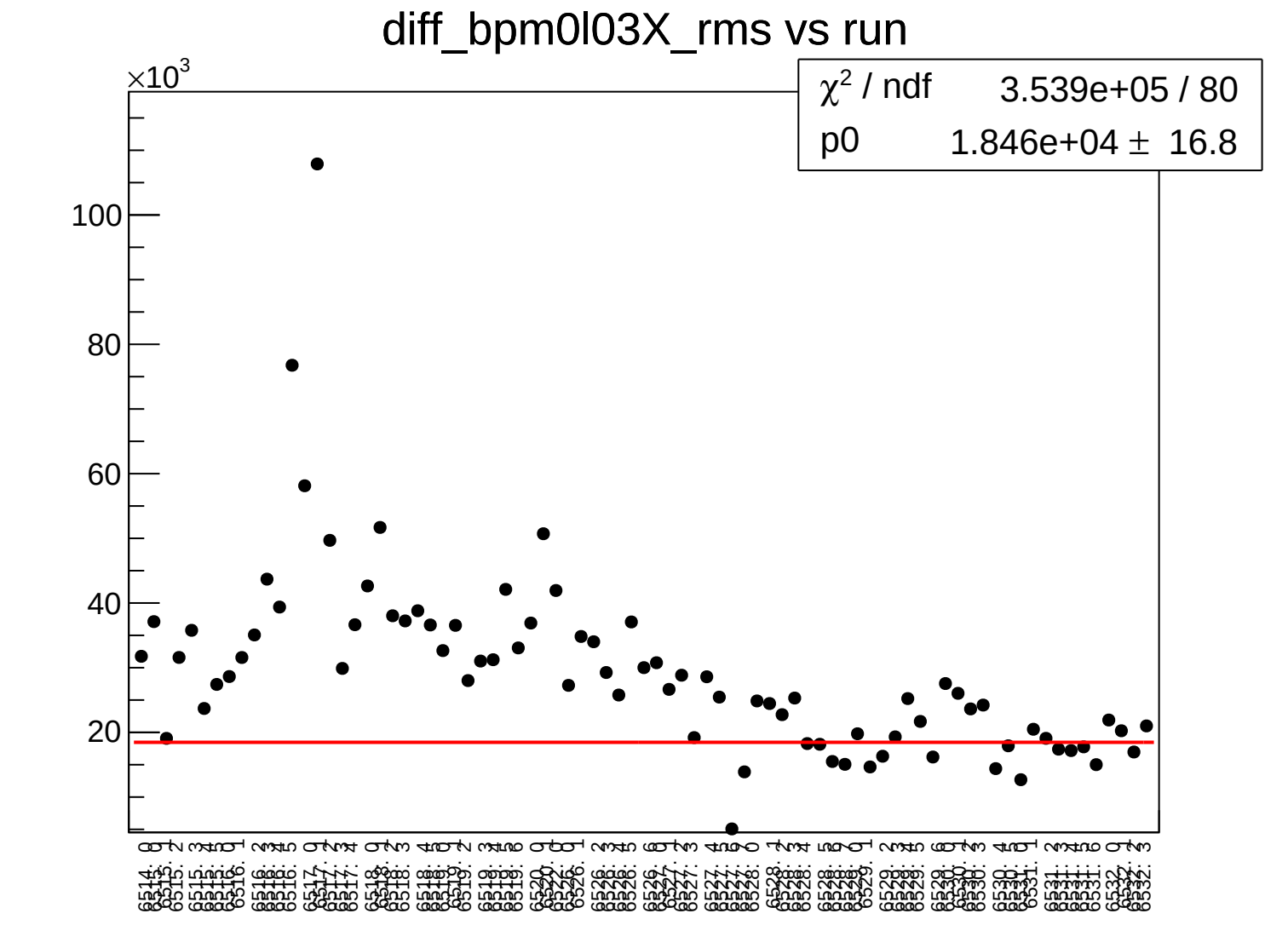

diff_bpm0l02Y_mean vs run
χ² / ndf 81.69 / 80
p0 0.74 ± 2.025
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean 3.781
Std Dev 0
2
1
0
−1
−2

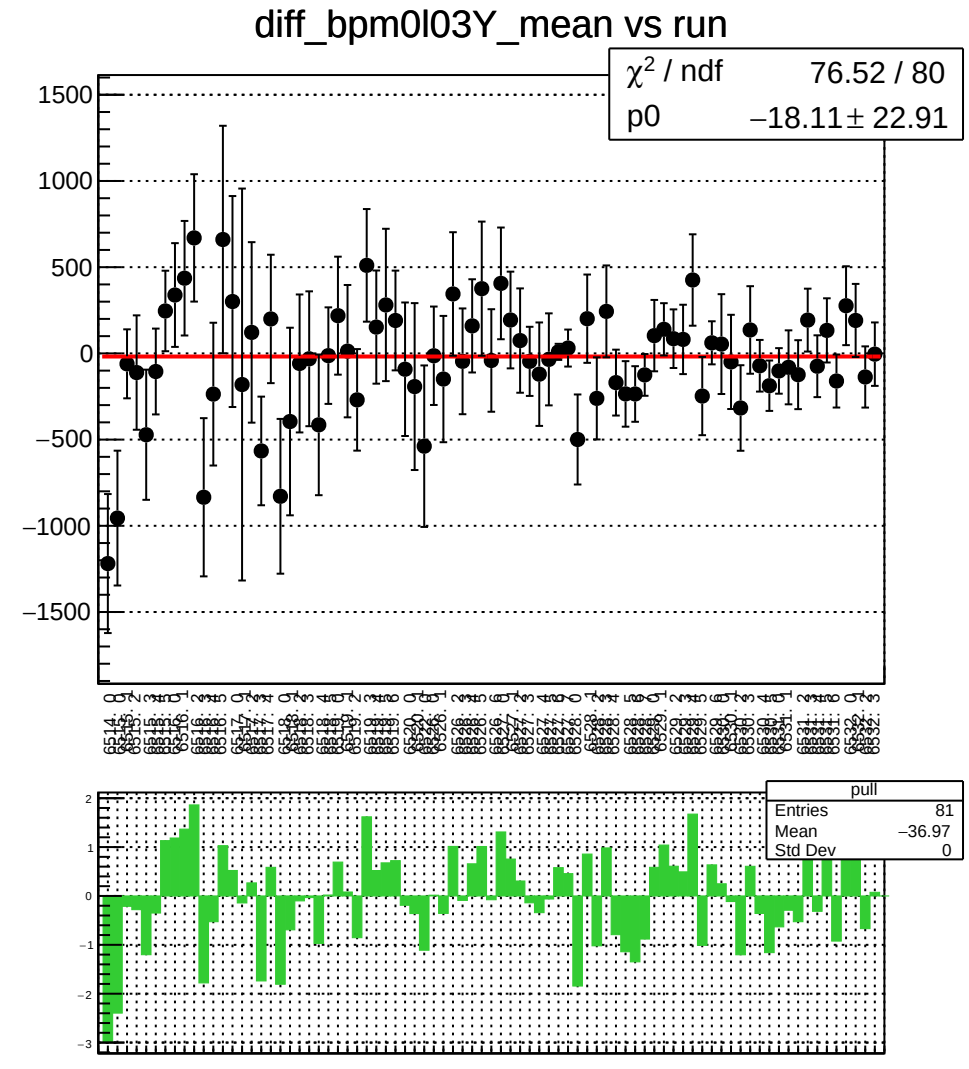

pull1D
Entries 81
Mean 0.02999
Std Dev 1.004
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

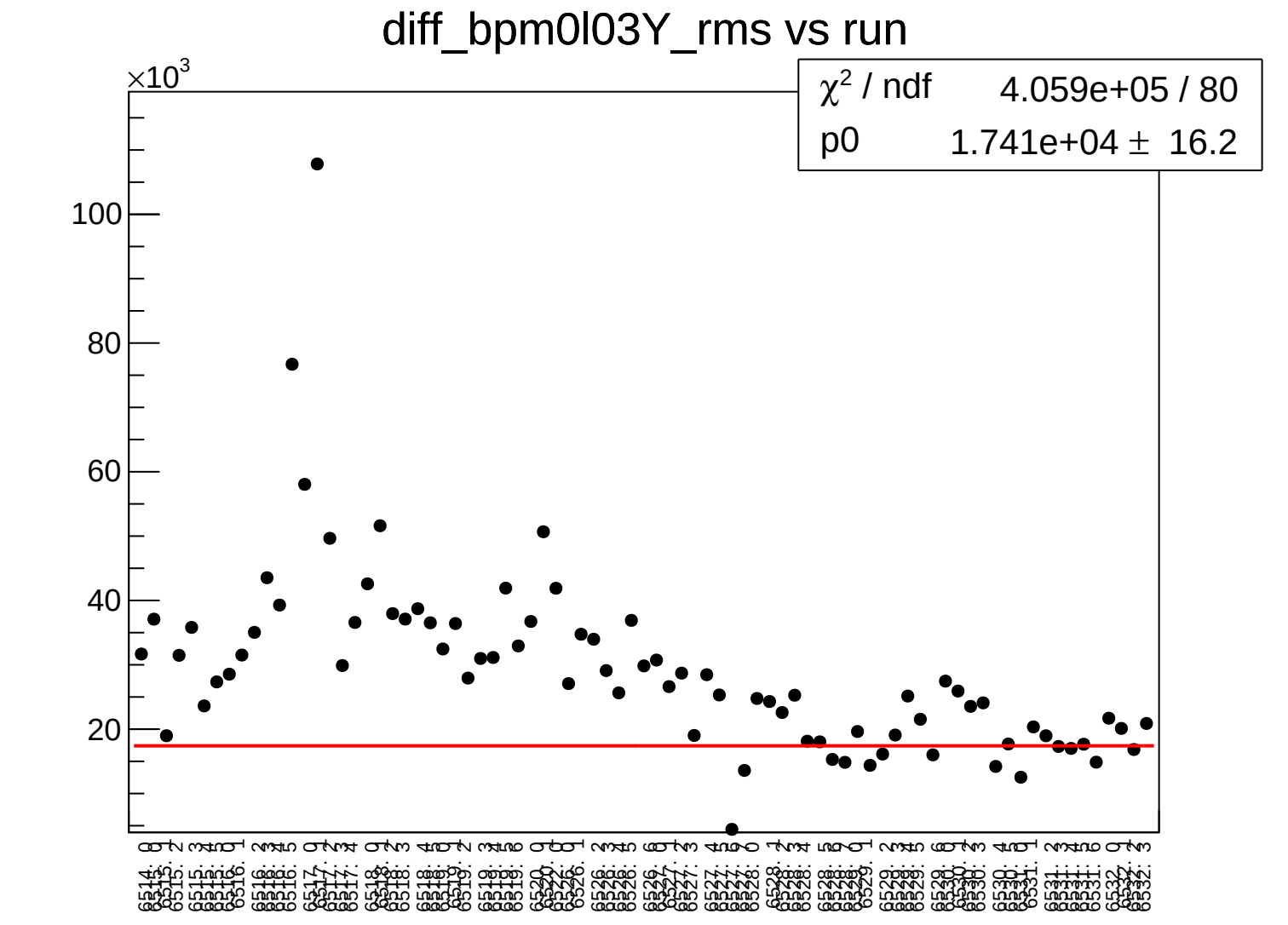

diff_bpm0l02Y_rms vs run
χ² / ndf 1.769e+05 / 80
p0 1684 ± 1.432
5500
5000
4500
4000
3500
3000
2500
2000
1500

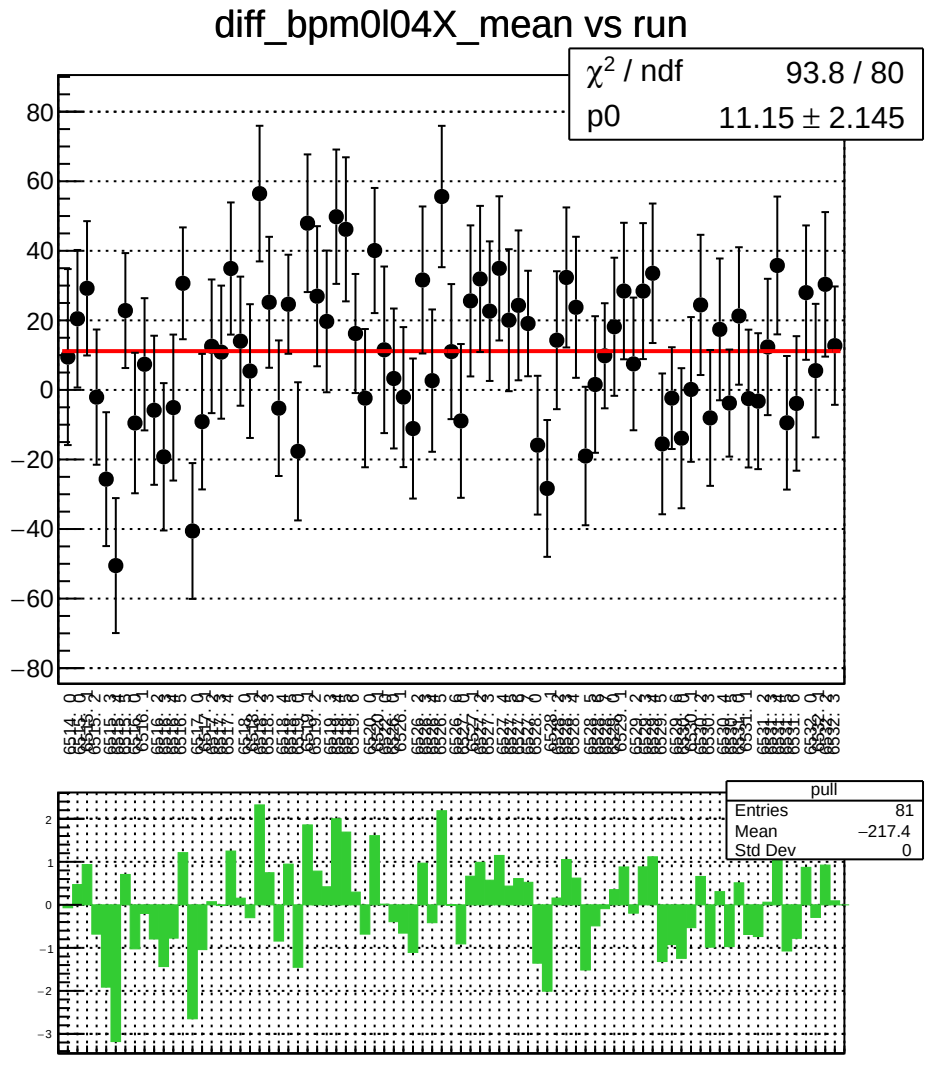

diff_bpm0l03X_mean vs run
χ² / ndf 79.66 / 80
p0 2.76 ± 23.76
pull
Entries 81
Mean −4.525
Std Dev 0

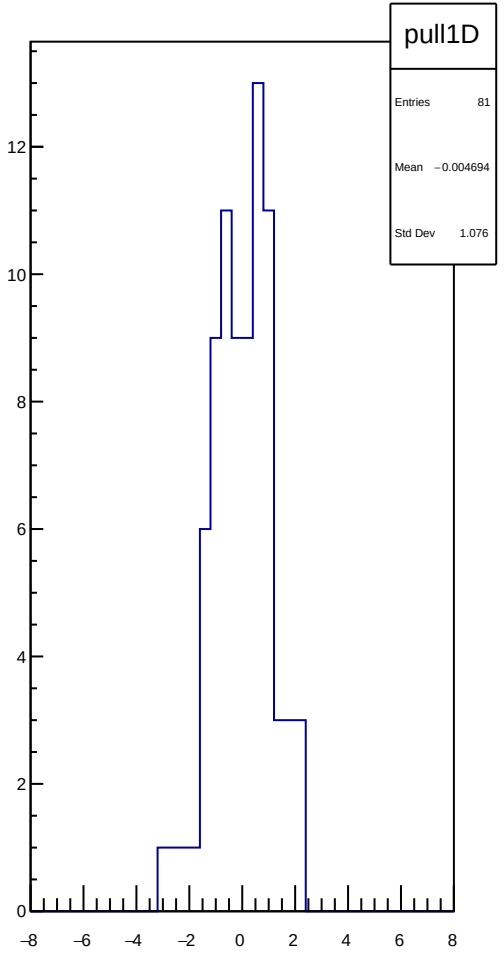

pull1D
Entries 81
Mean −0.05843
Std Dev 0.99

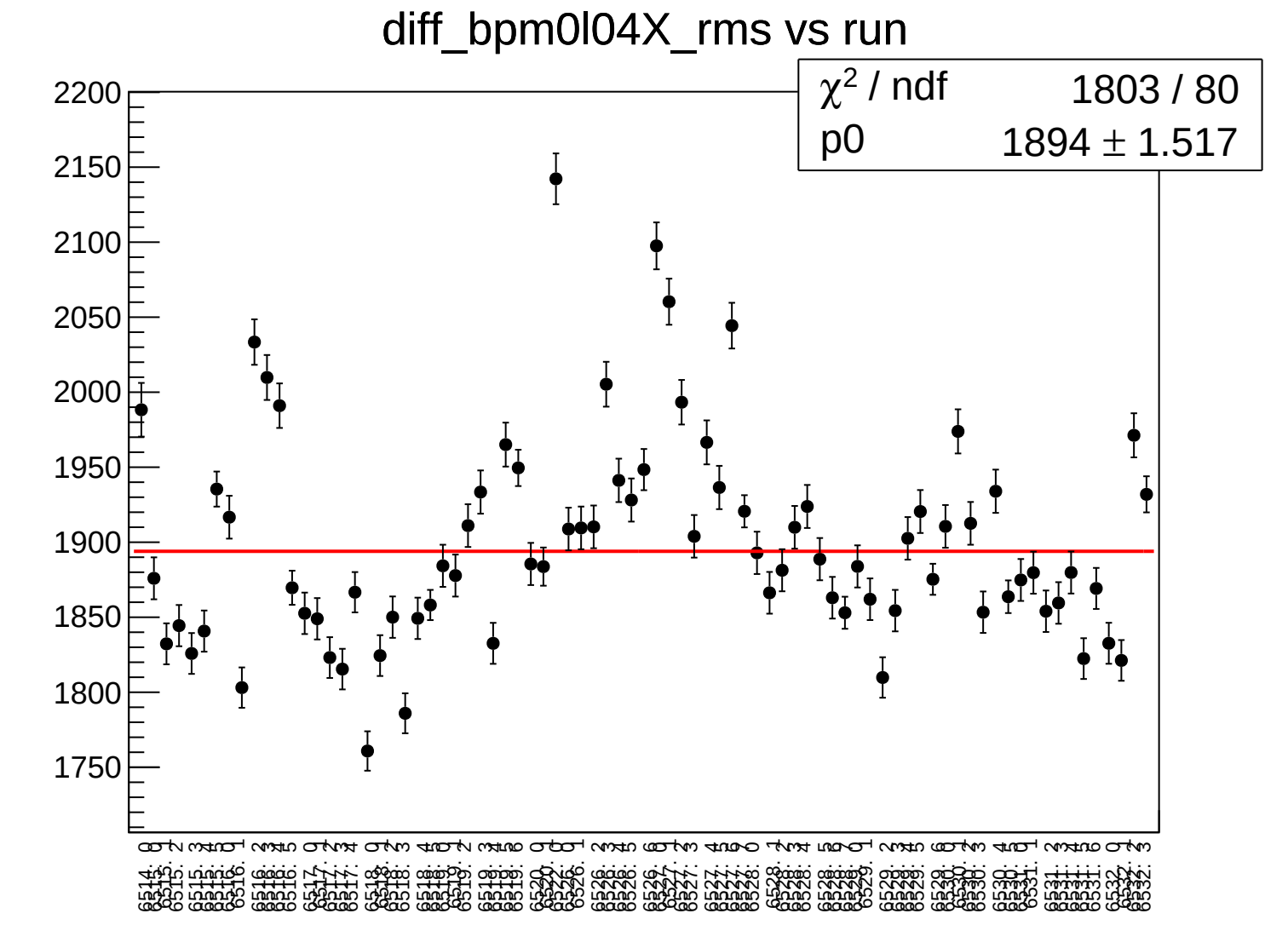

diff_bpm0l03X_rms vs run
×10^3
χ^2 / ndf 3.539e+05 / 80
p0 1.846e+04 ± 16.8
100
80
60
40
20

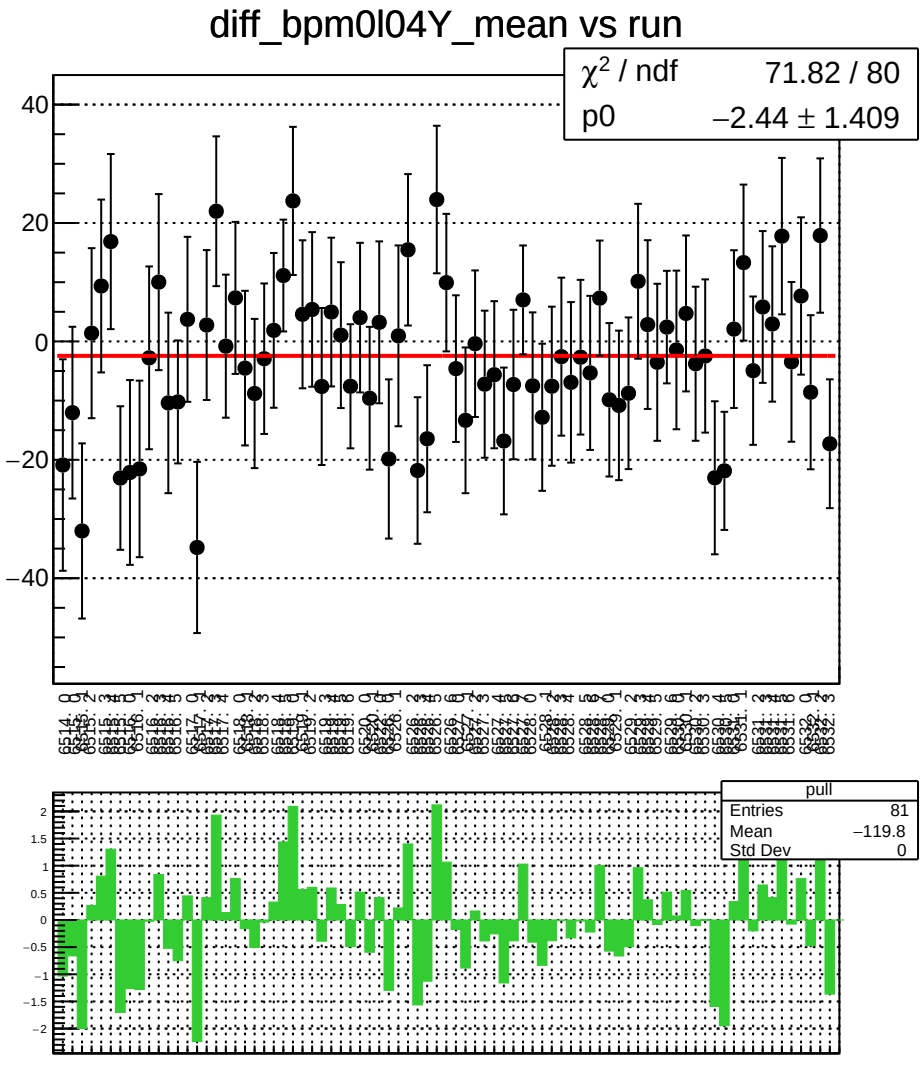

diff_bpm0l03Y_mean vs run
χ² / ndf 76.52 / 80
p0 −18.11 ± 22.91
pull
Entries 81
Mean −36.97
Std Dev 0
pull1D
Entries 81
Mean −0.03206
Std Dev 0.9714

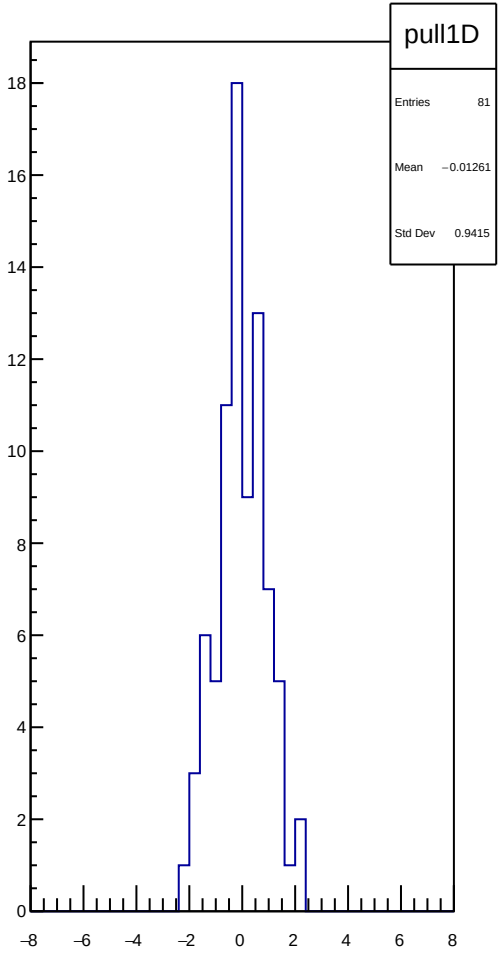

diff_bpm0l03Y_rms vs run
×10^3
χ^2 / ndf 4.059e+05 / 80
p0 1.741e+04 ± 16.2
100
80
60
40
20

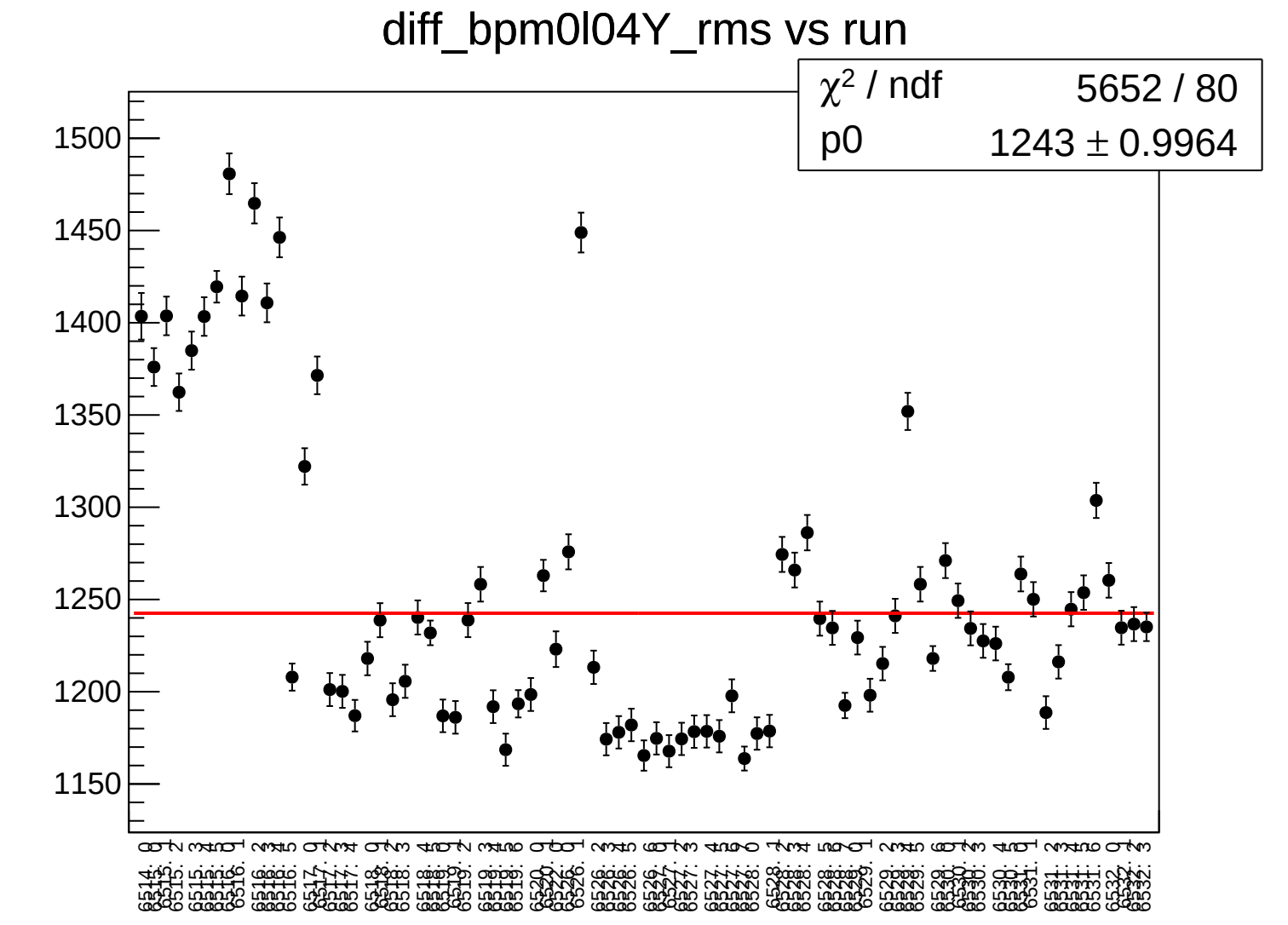

diff_bpm0l04X_mean vs run
χ^2 / ndf 93.8 / 80
p0 11.15 ± 2.145
pull
Entries 81
Mean −217.4
Std Dev 0

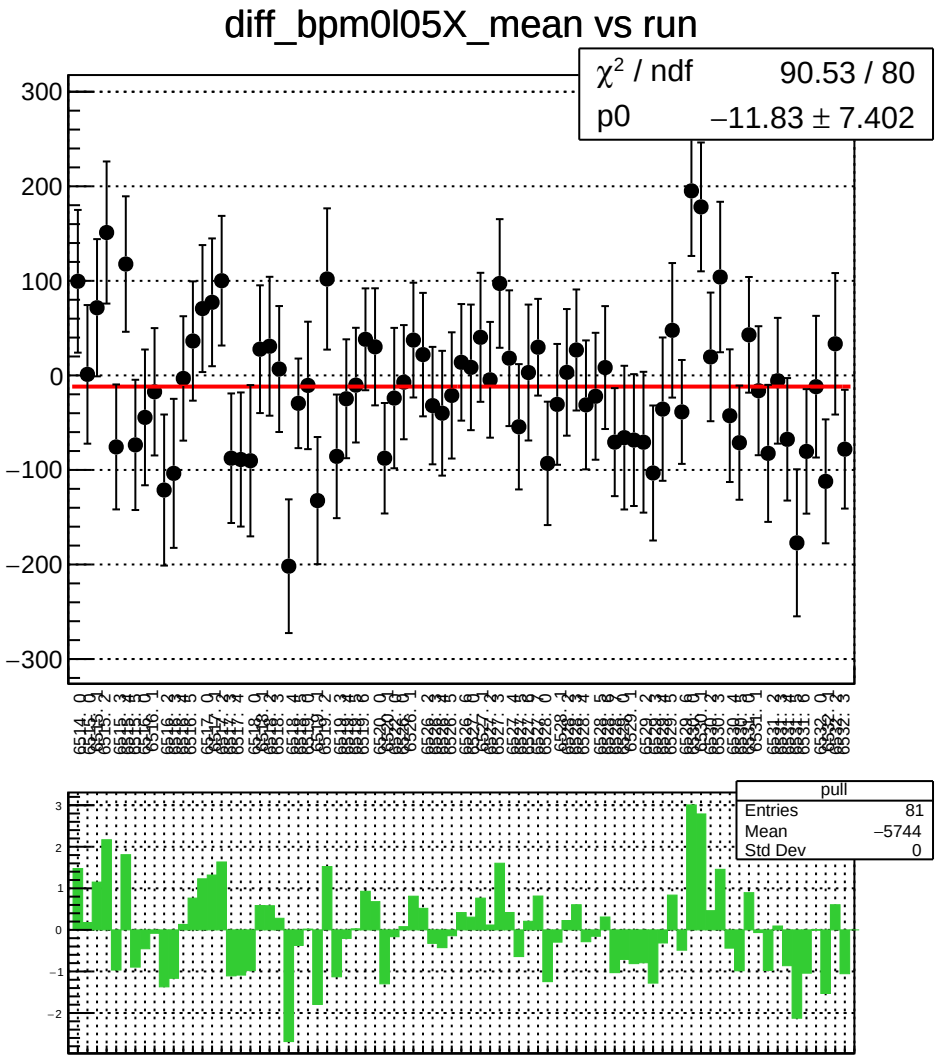

pull1D
Entries 81
Mean −0.004694
Std Dev 1.076

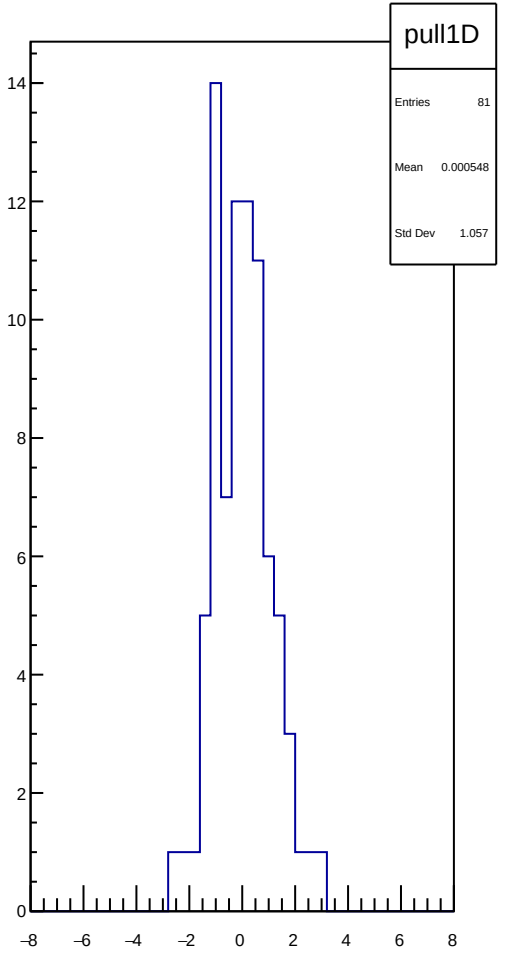

diff_bpm0l04X_rms vs run
χ² / ndf 1803 / 80
p0 1894 ± 1.517
2200
2150
2100
2050
2000
1950
1900
1850
1800
1750

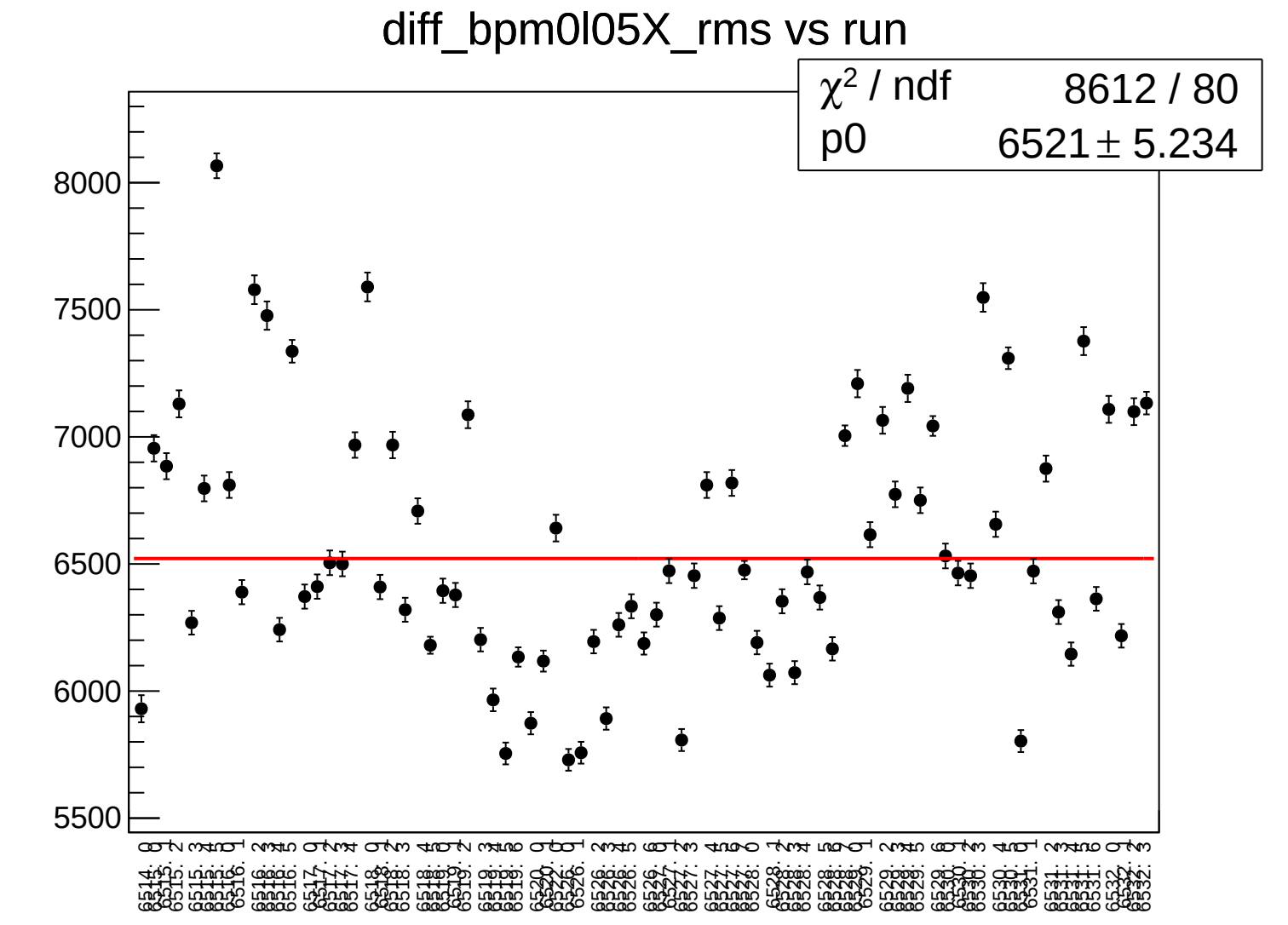

diff_bpm0l04Y_mean vs run
χ² / ndf 71.82 / 80
p0 −2.44 ± 1.409
pull
Entries 81
Mean −119.8
Std Dev 0

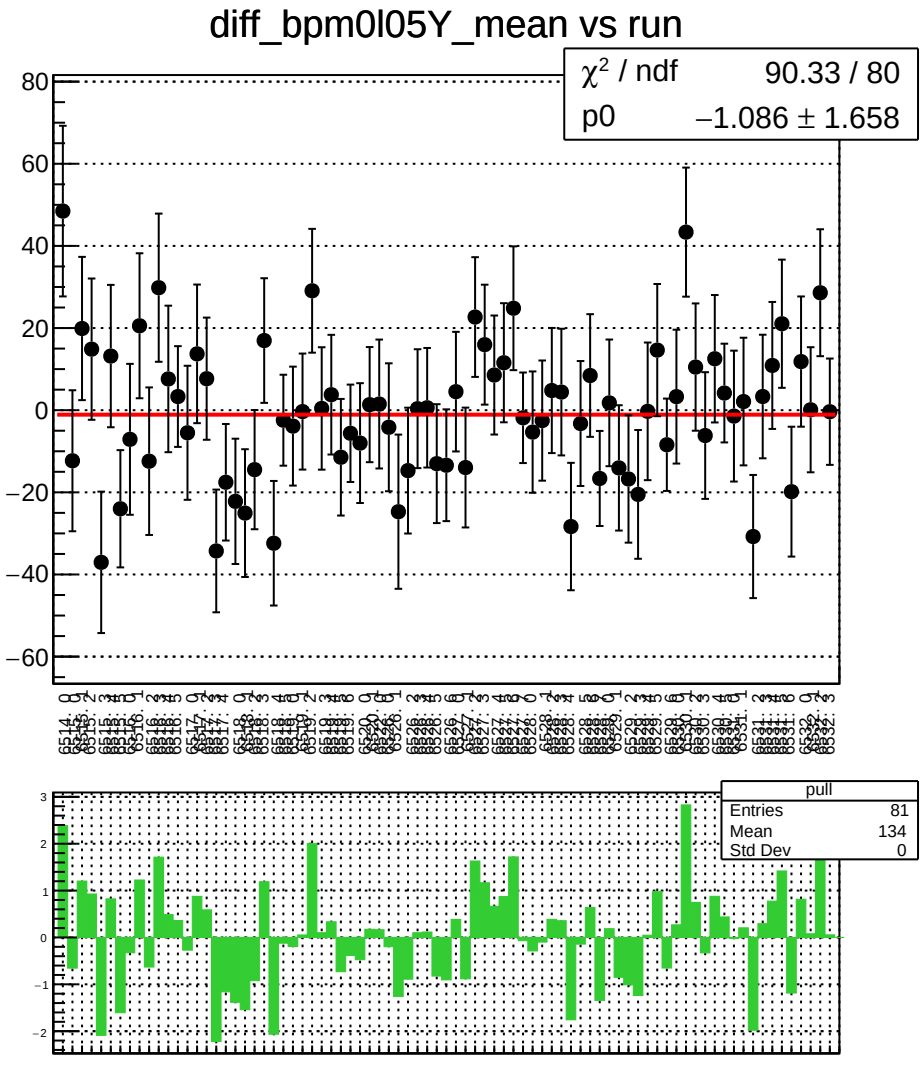

pull1D
Entries 81
Mean −0.01261
Std Dev 0.9415

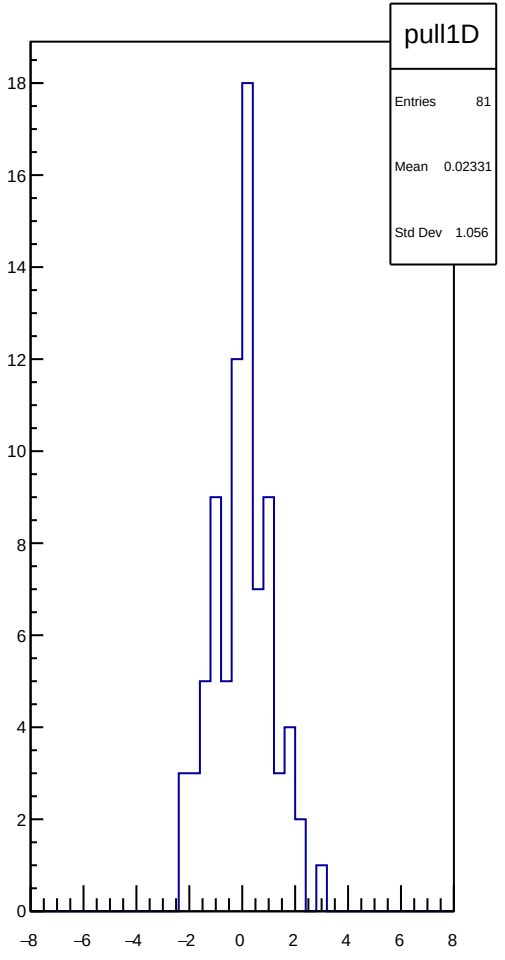

diff_bpm0l04Y_rms vs run
χ² / ndf 5652 / 80
p0 1243 ± 0.9964
1500
1450
1400
1350
1300
1250
1200
1150

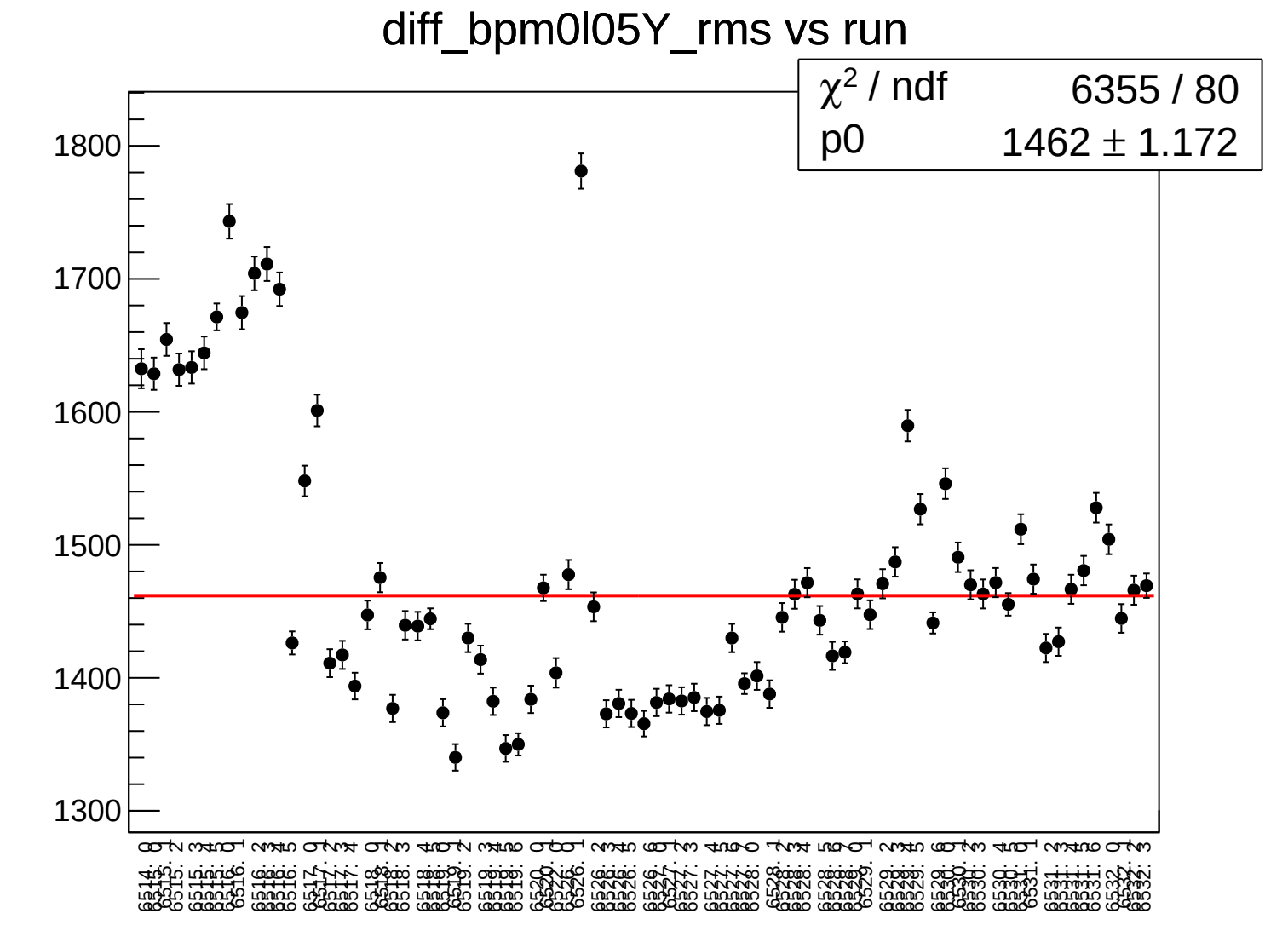

diff_bpm0l05X_mean vs run
χ² / ndf 90.53 / 80
p0 −11.83 ± 7.402
pull
Entries 81
Mean −5744
Std Dev 0

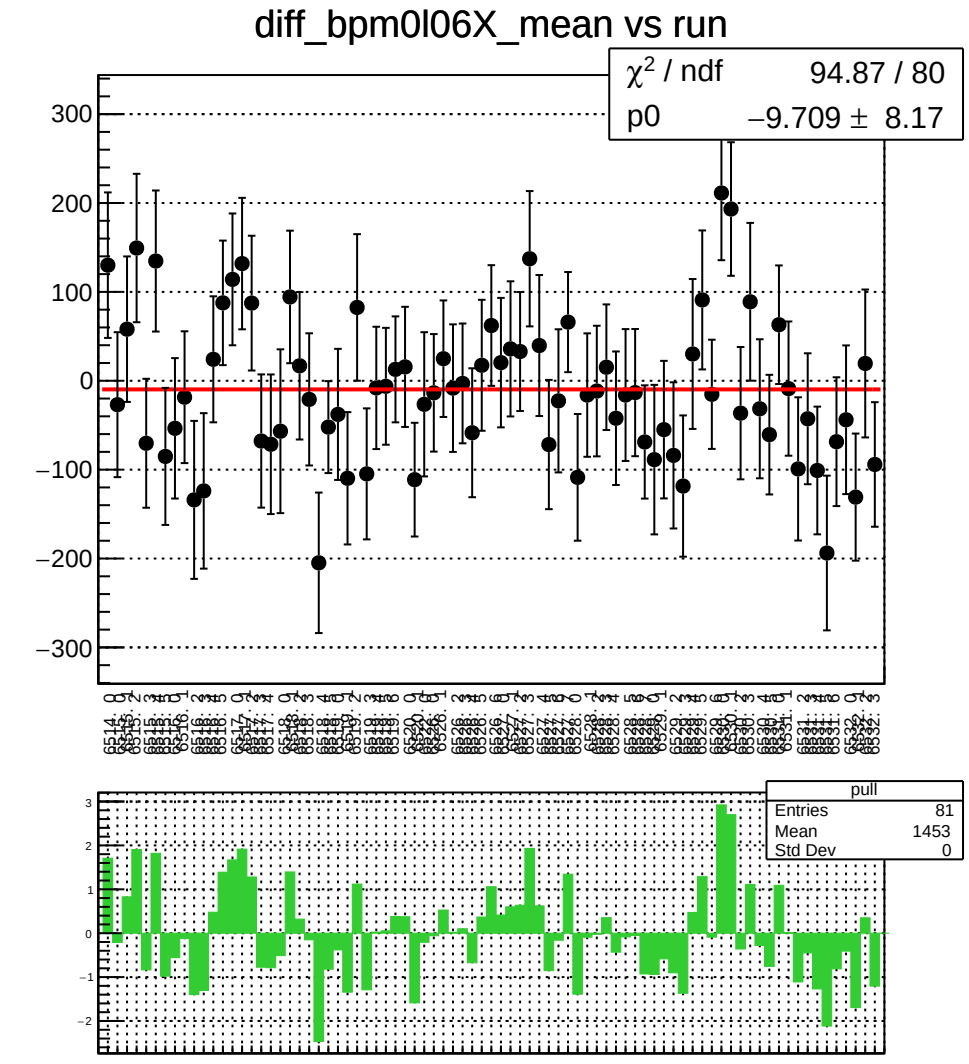

pull1D
Entries 81
Mean 0.000548
Std Dev 1.057

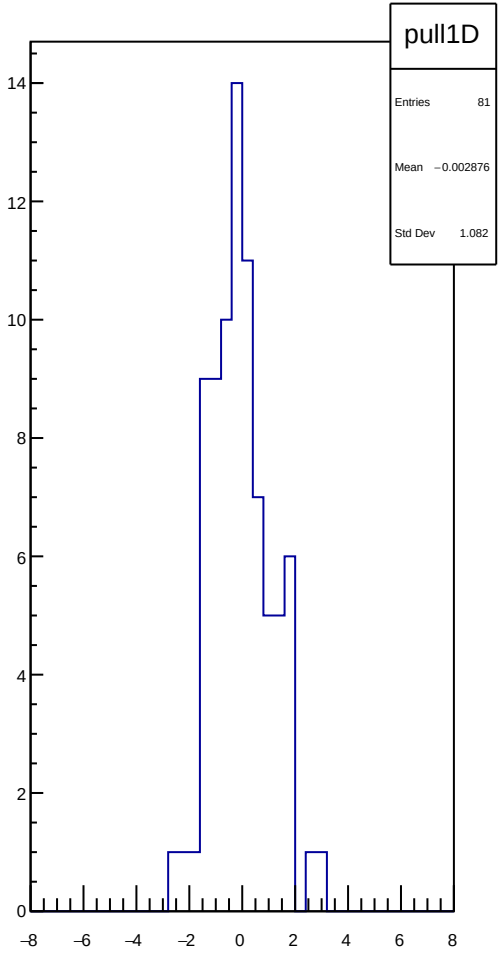

diff_bpm0l05X_rms vs run
χ² / ndf 8612 / 80
p0 6521 ± 5.234
8000
7500
7000
6500
6000
5500

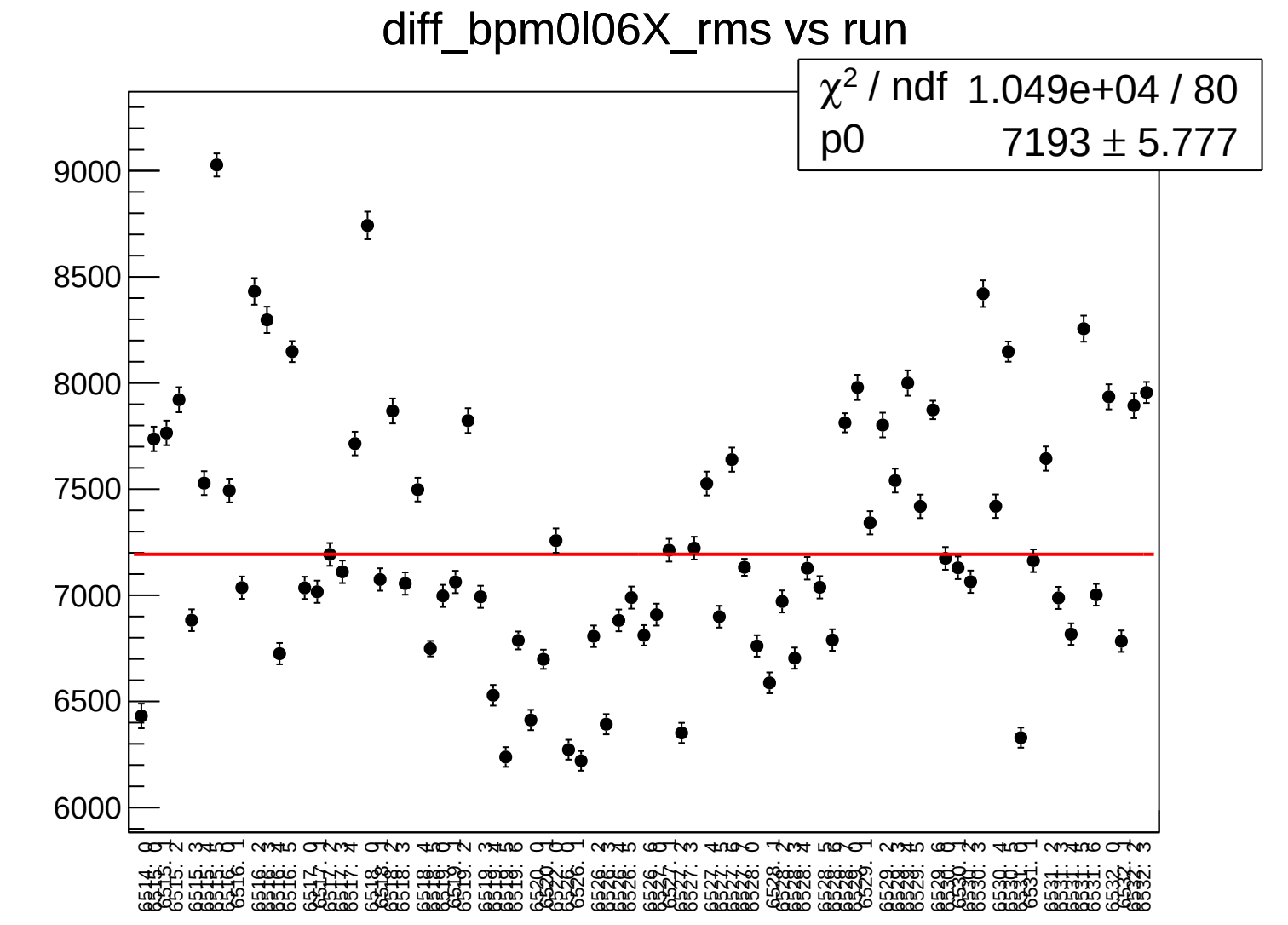

diff_bpm0l05Y_mean vs run
χ² / ndf 90.33 / 80
p0 −1.086 ± 1.658
pull
Entries 81
Mean 134
Std Dev 0

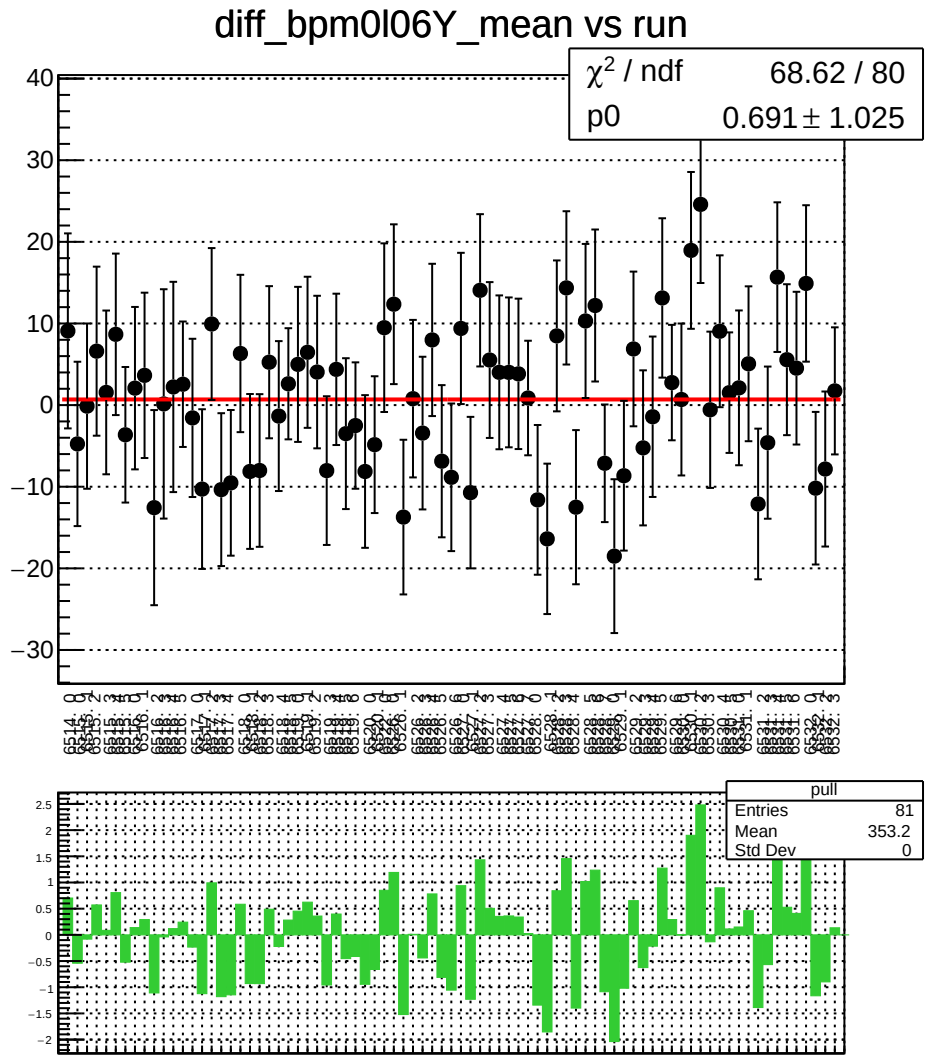

pull1D
Entries 81
Mean 0.02331
Std Dev 1.056

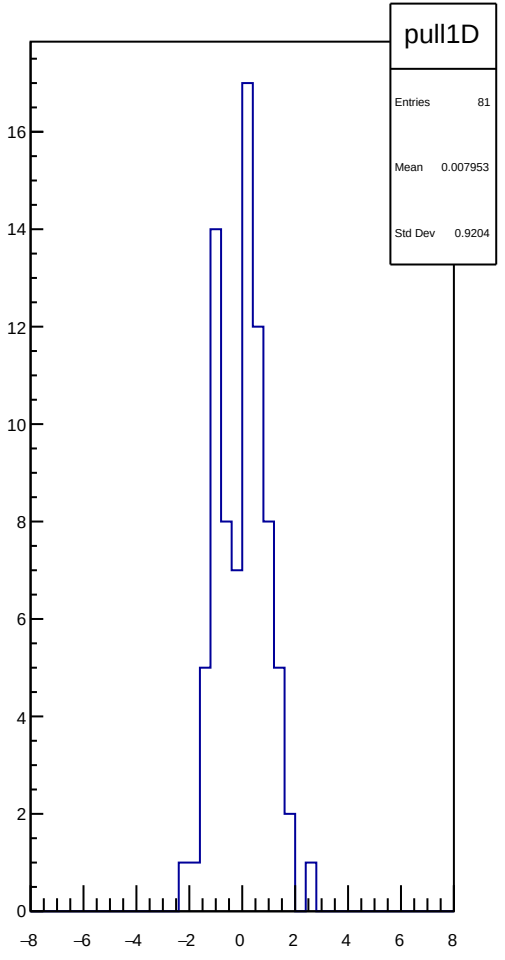

diff_bpm0l05Y_rms vs run
χ² / ndf 6355 / 80
p0 1462 ± 1.172
1800
1700
1600
1500
1400
1300

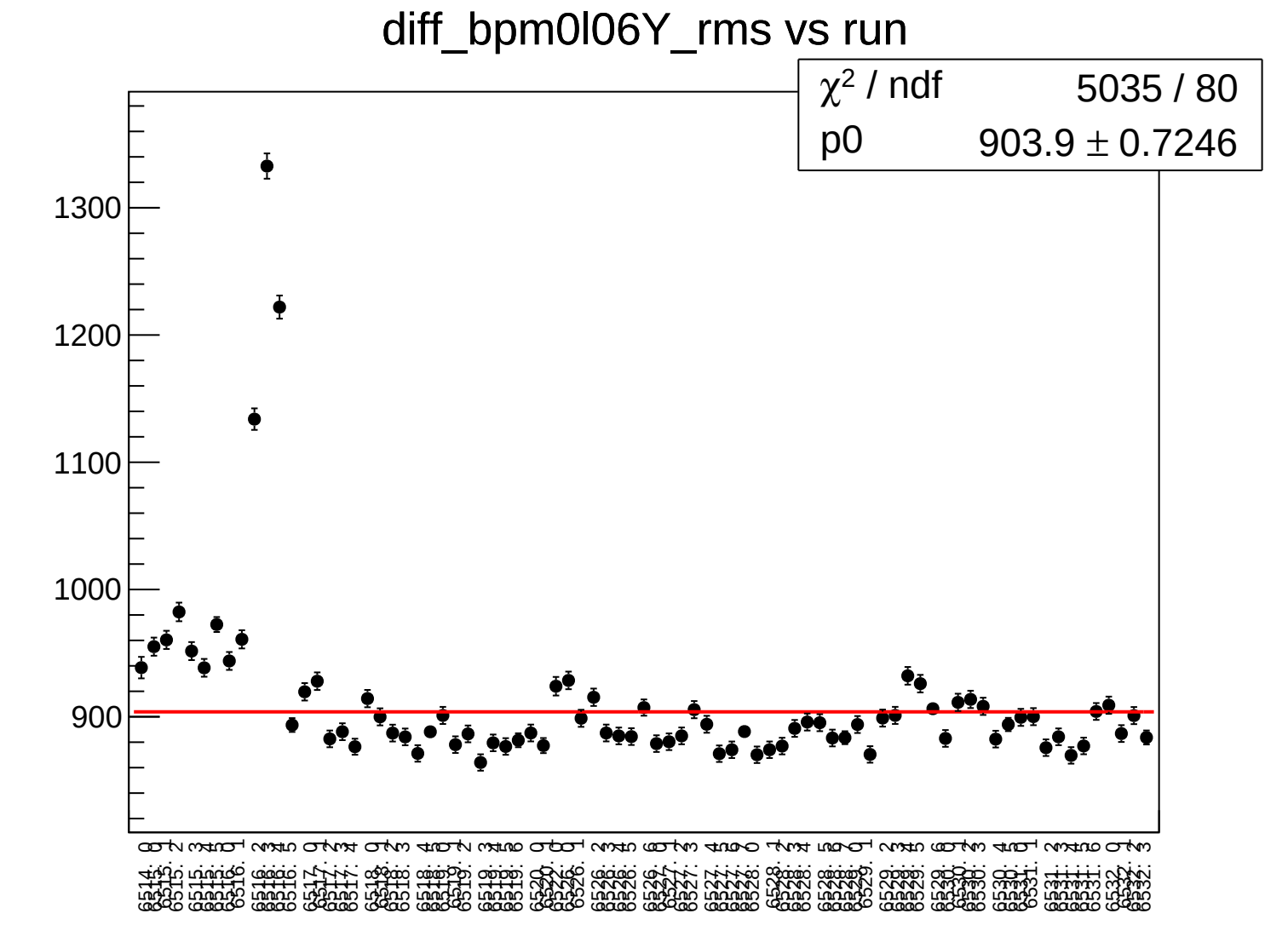

diff_bpm0l06X_mean vs run
χ² / ndf 94.87 / 80
p0 −9.709 ± 8.17
pull
Entries 81
Mean 1453
Std Dev 0

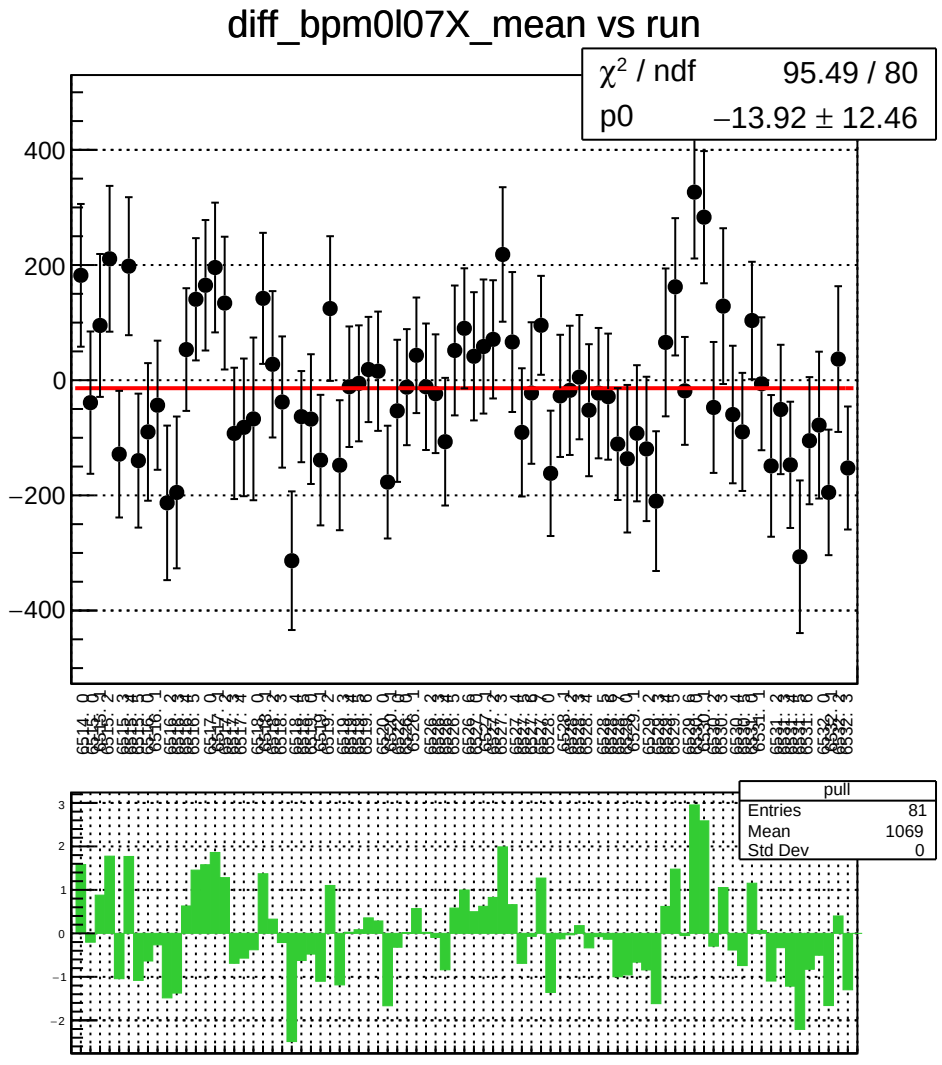

pull1D
Entries 81
Mean −0.002876
Std Dev 1.082

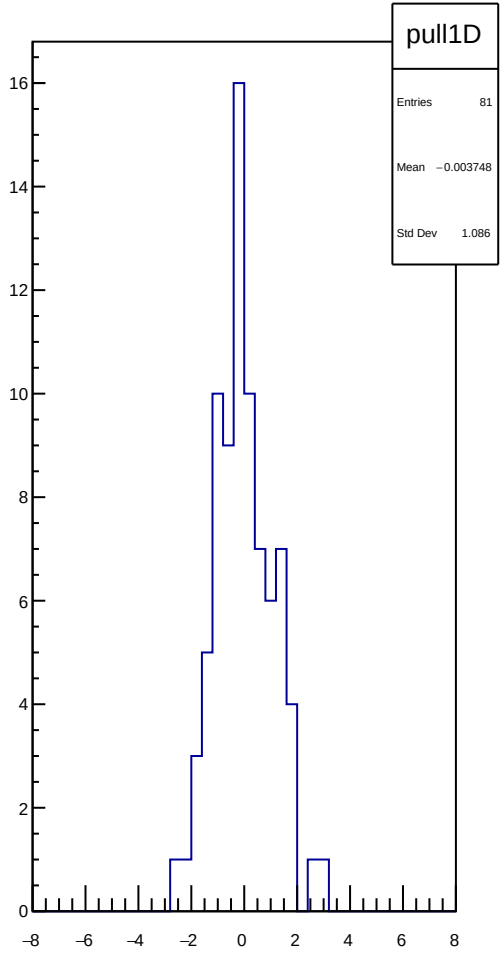

diff_bpm0l06X_rms vs run
χ² / ndf 1.049e+04 / 80
p0 7193 ± 5.777
9000
8500
8000
7500
7000
6500
6000

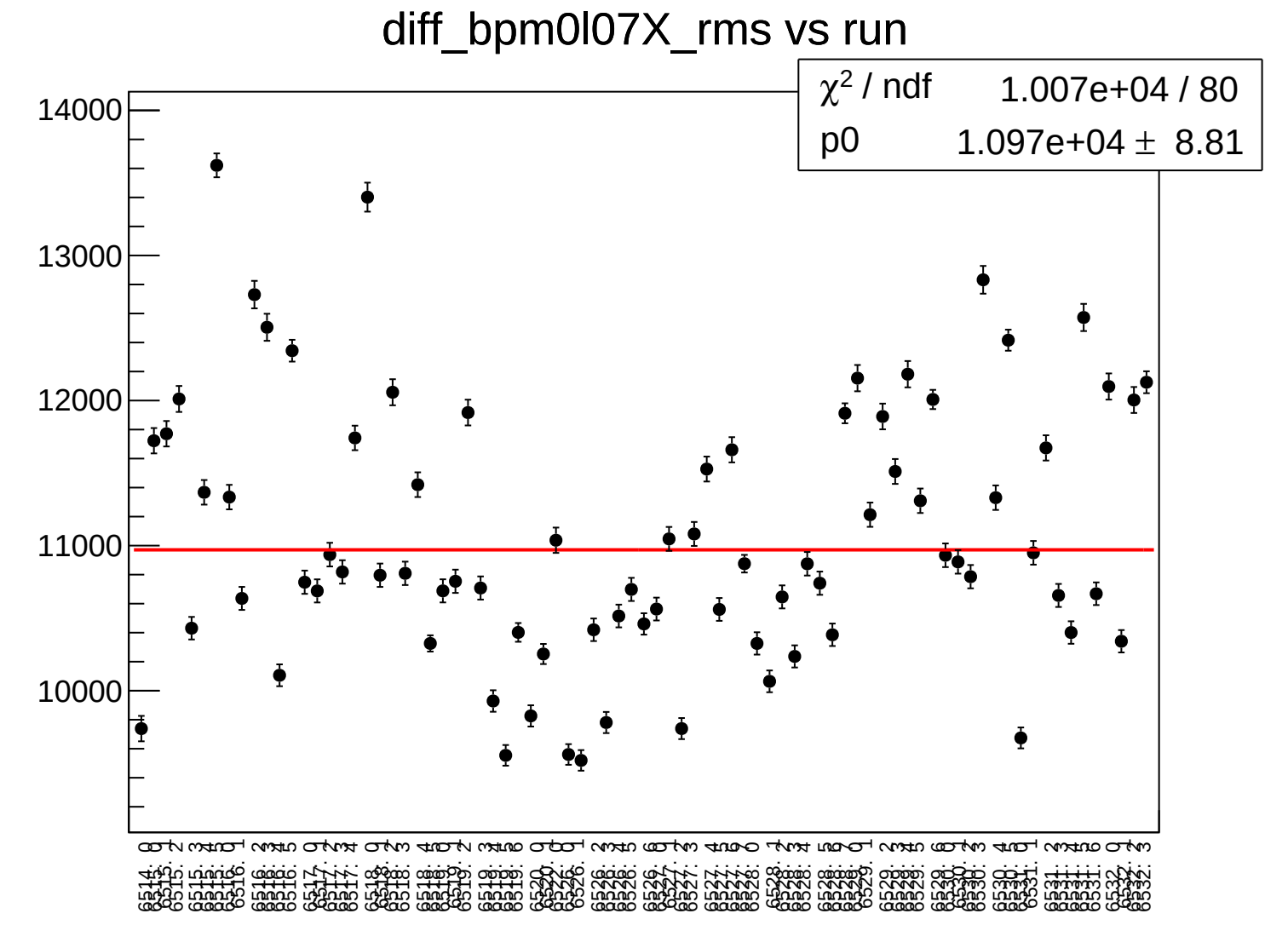

diff_bpm0l06Y_mean vs run
χ^2 / ndf 68.62 / 80
p0 0.691 ± 1.025
pull
Entries 81
Mean 353.2
Std Dev 0

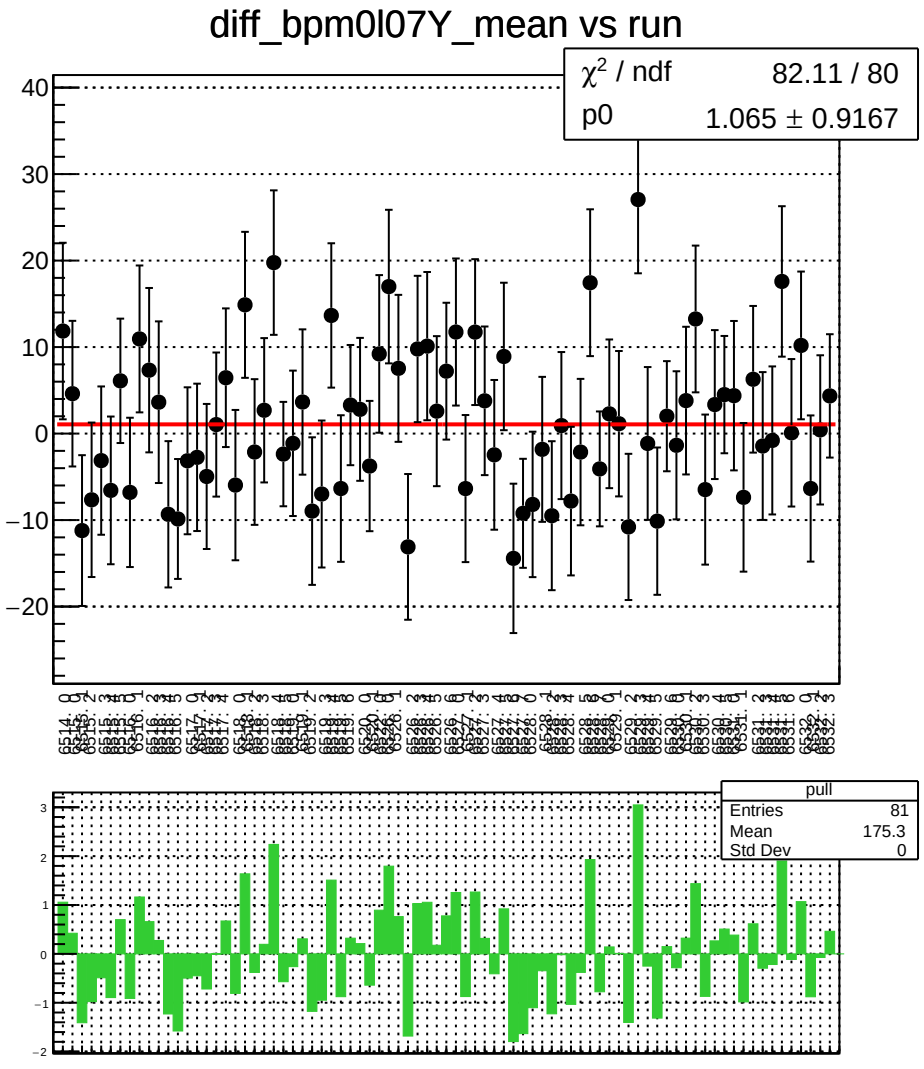

pull1D
Entries 81
Mean 0.007953
Std Dev 0.9204

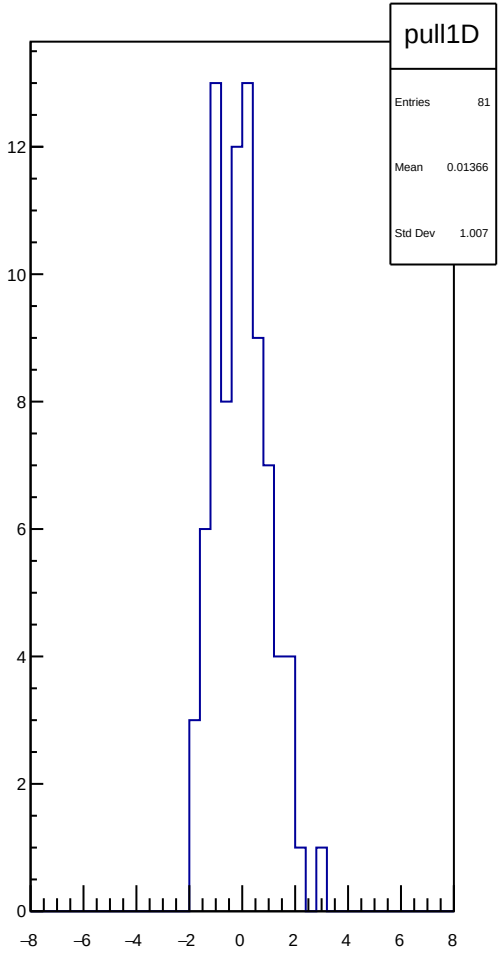

diff_bpm0l06Y_rms vs run
χ² / ndf 5035 / 80
p0 903.9 ± 0.7246
1300
1200
1100
1000
900

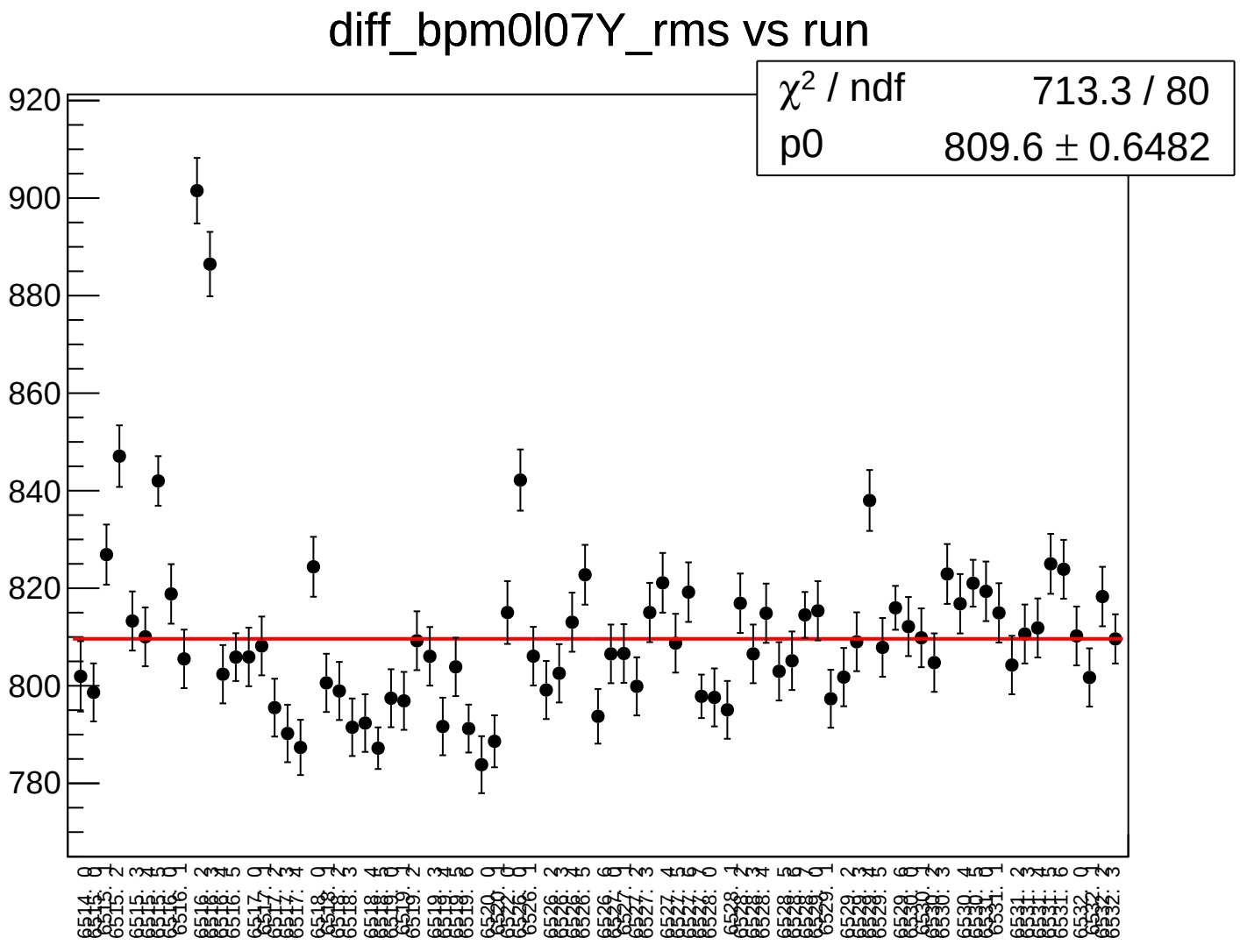

diff_bpm0l07X_mean vs run
χ² / ndf 95.49 / 80
p0 −13.92 ± 12.46
400
200
0
−200
−400
pull
Entries 81
Mean 1069
Std Dev 0
3
2
1
0
−1
−2

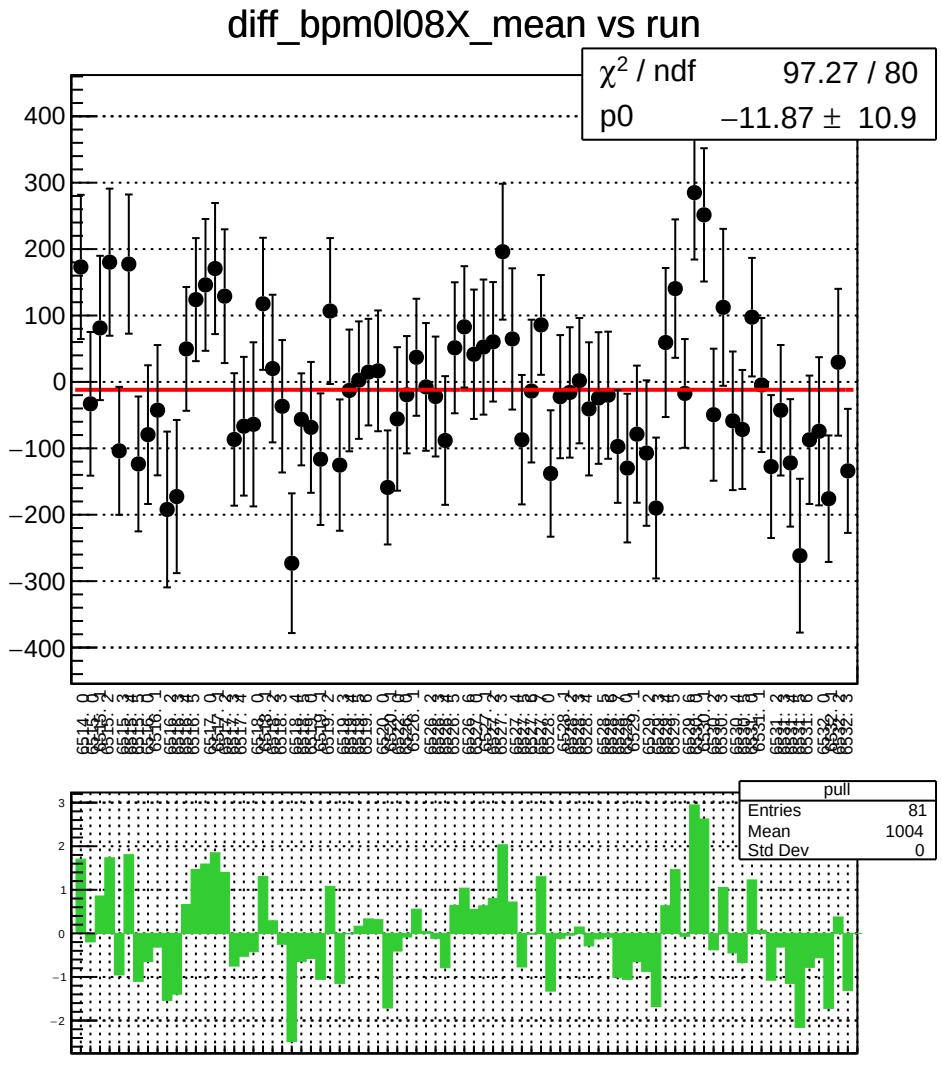

pull1D
Entries 81
Mean −0.003748
Std Dev 1.086
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

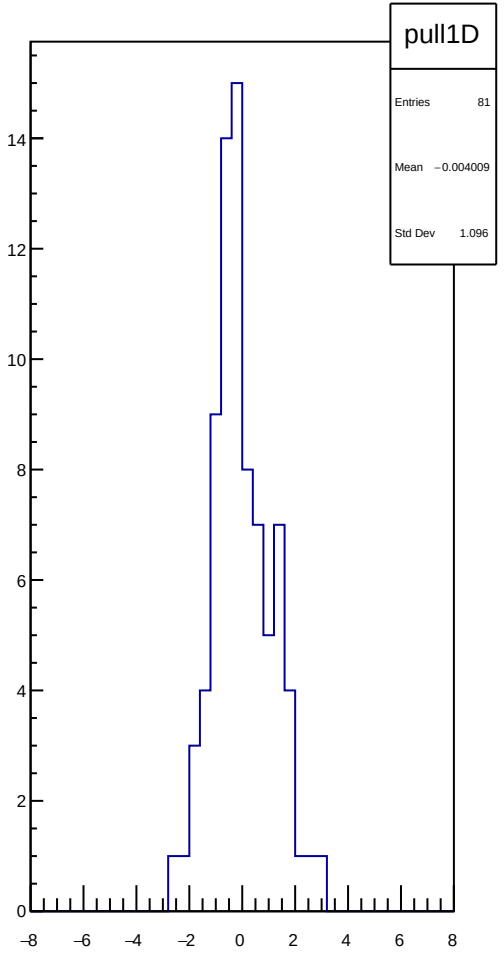

diff_bpm0l07X_rms vs run
χ² / ndf 1.007e+04 / 80
p0 1.097e+04 ± 8.81
14000
13000
12000
11000
10000

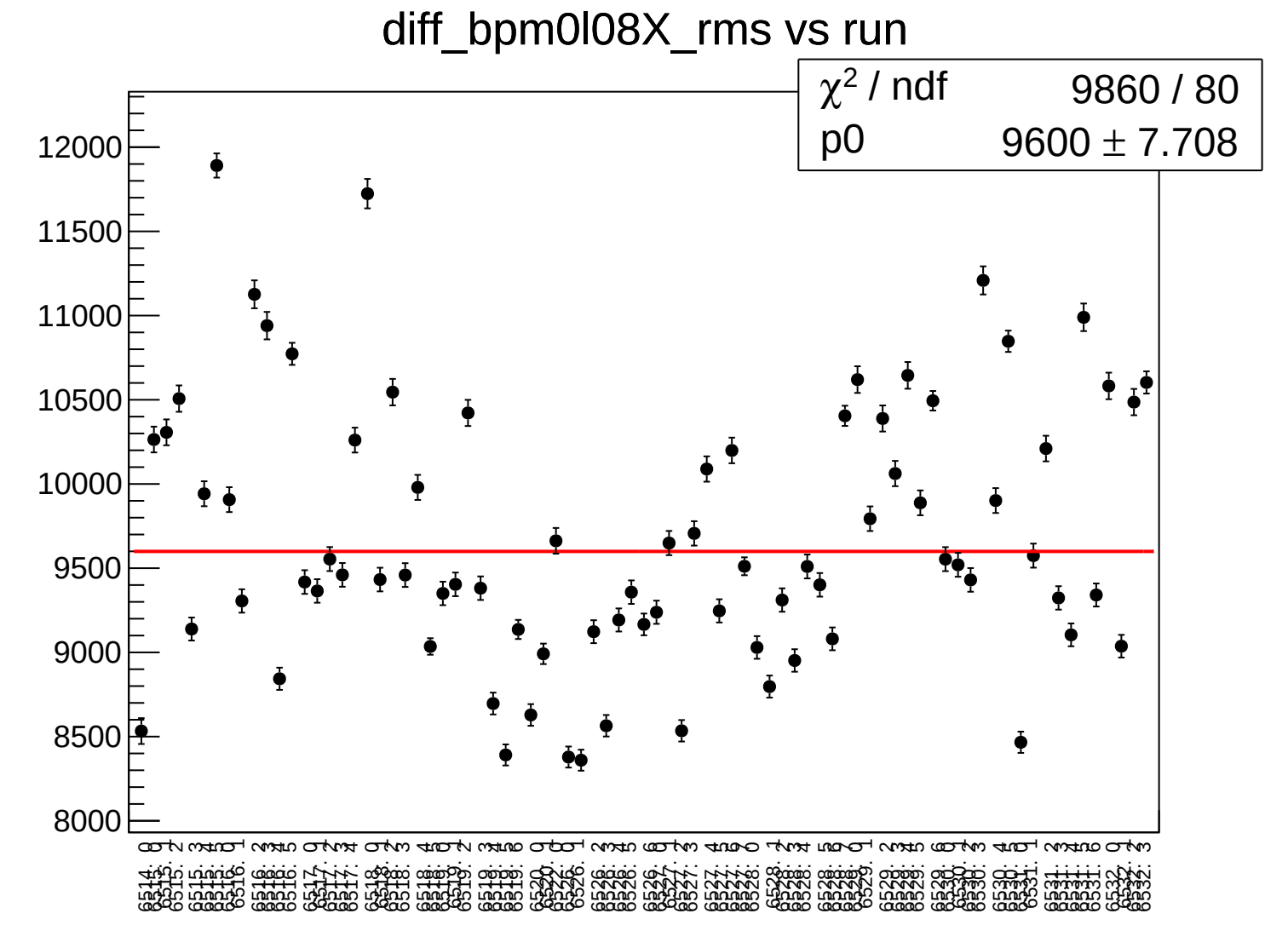

diff_bpm0l07Y_mean vs run
χ² / ndf 82.11 / 80
p0 1.065 ± 0.9167
pull
Entries 81
Mean 175.3
Std Dev 0

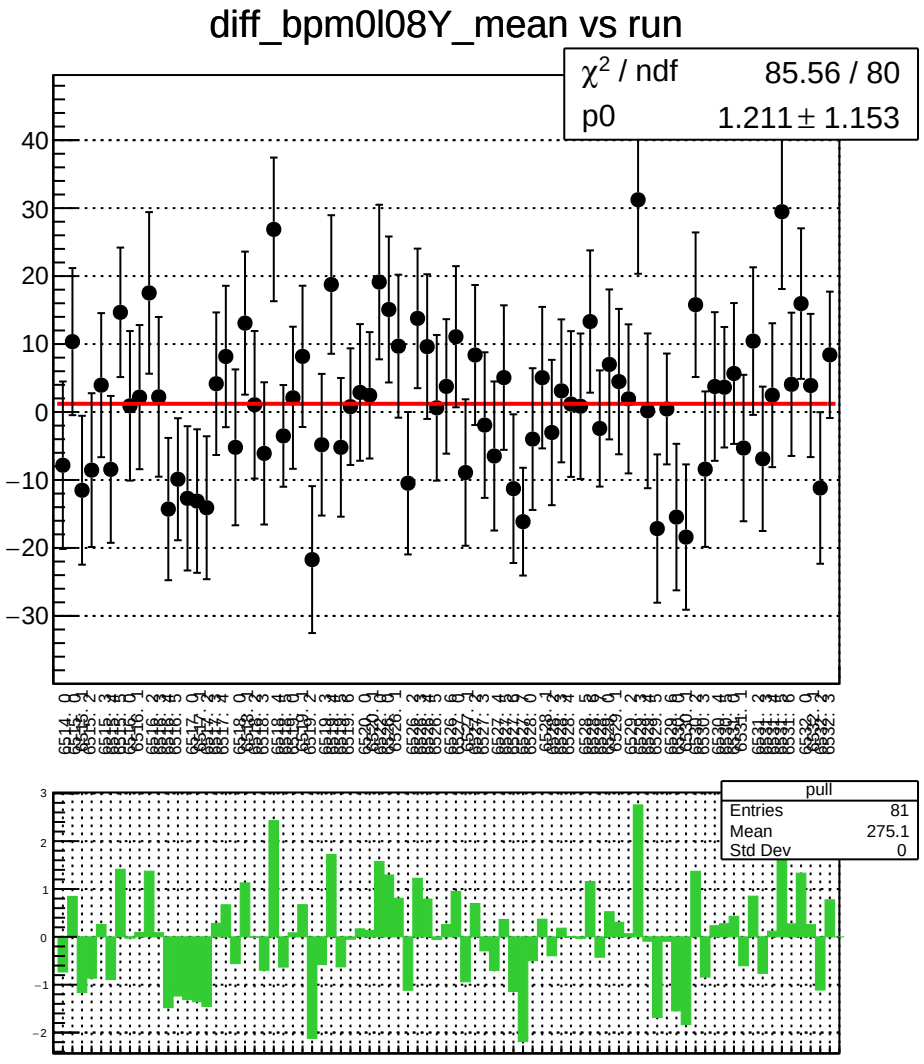

pull1D
Entries 81
Mean 0.01366
Std Dev 1.007

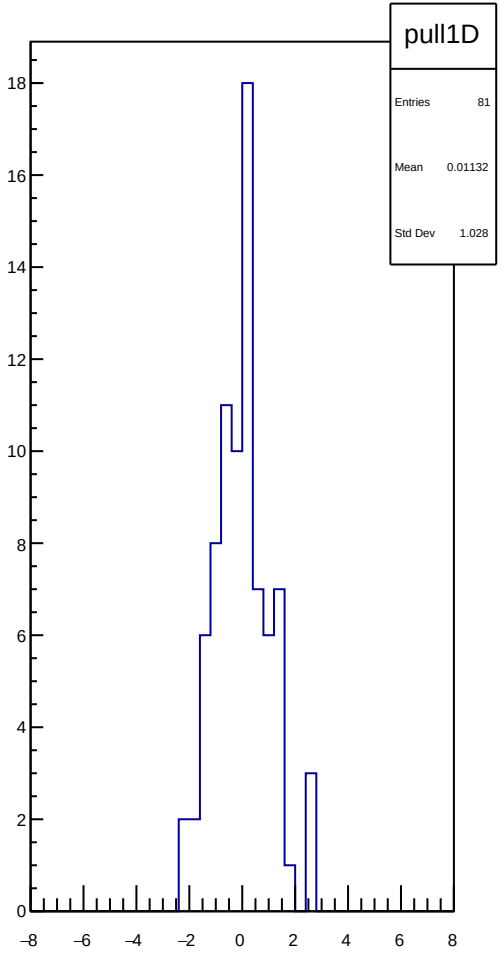

diff_bpm0l07Y_rms vs run
χ² / ndf 713.3 / 80
p0 809.6 ± 0.6482
920
900
880
860
840
820
800
780

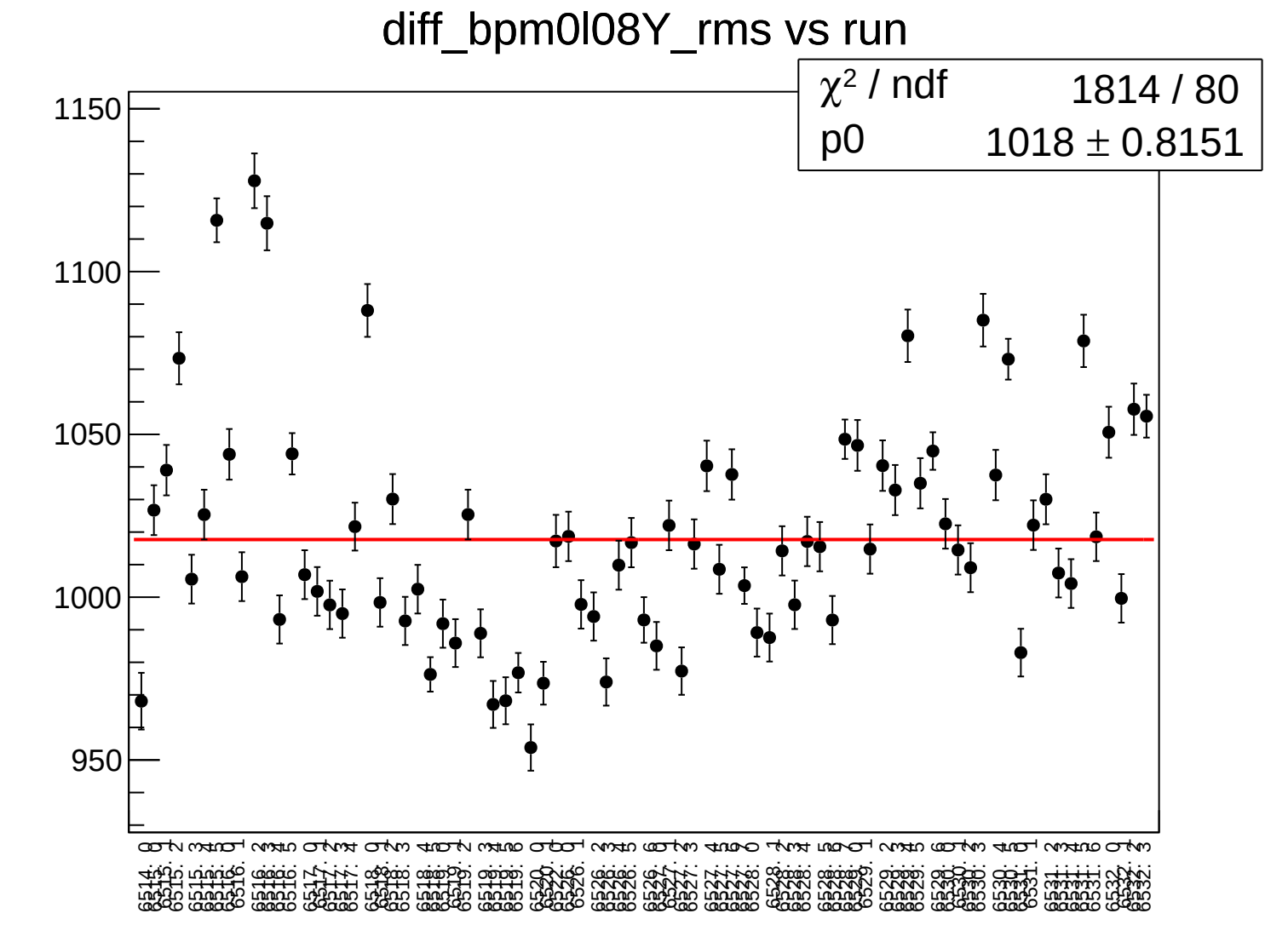

diff_bpm0l08X_mean vs run
χ² / ndf 97.27 / 80
p0 −11.87 ± 10.9
pull
Entries 81
Mean 1004
Std Dev 0

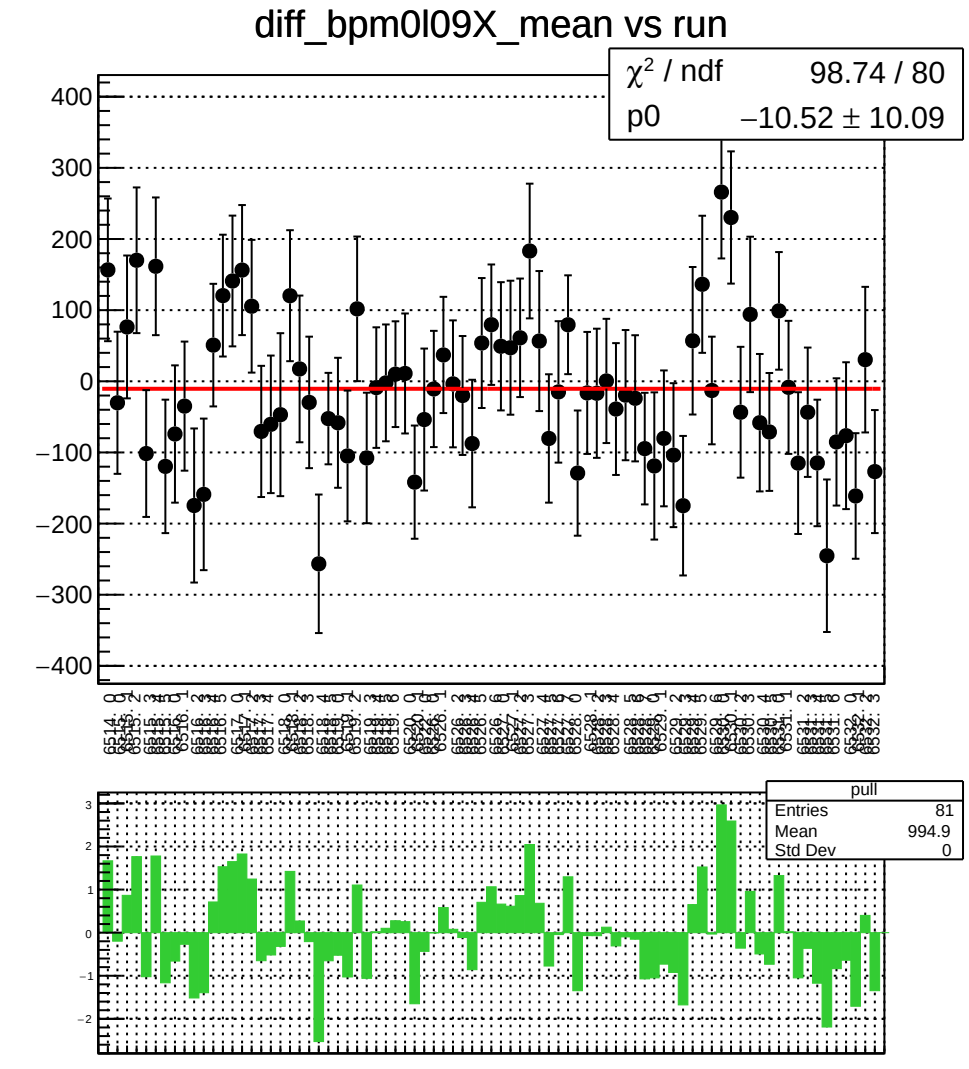

pull1D
Entries 81
Mean −0.004009
Std Dev 1.096

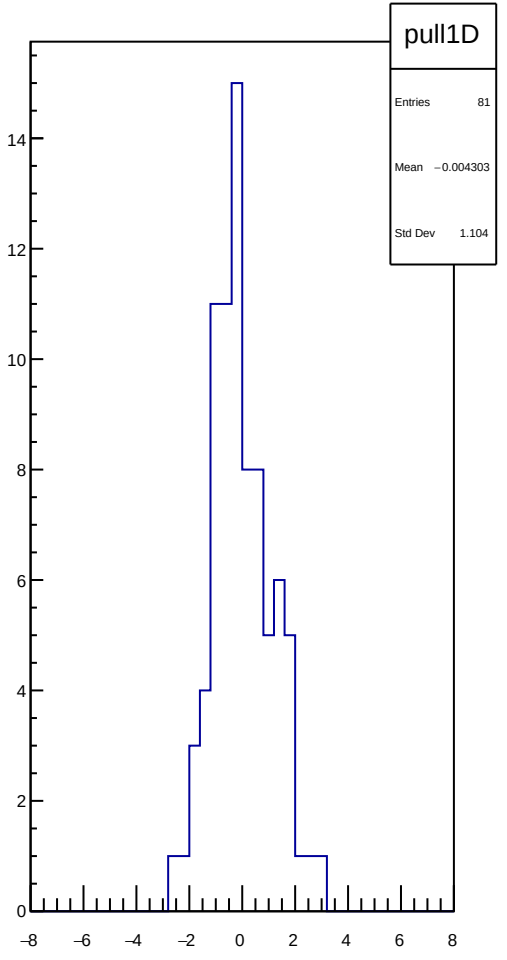

diff_bpm0l08X_rms vs run
χ² / ndf 9860 / 80
p0 9600 ± 7.708
12000
11500
11000
10500
10000
9500
9000
8500
8000

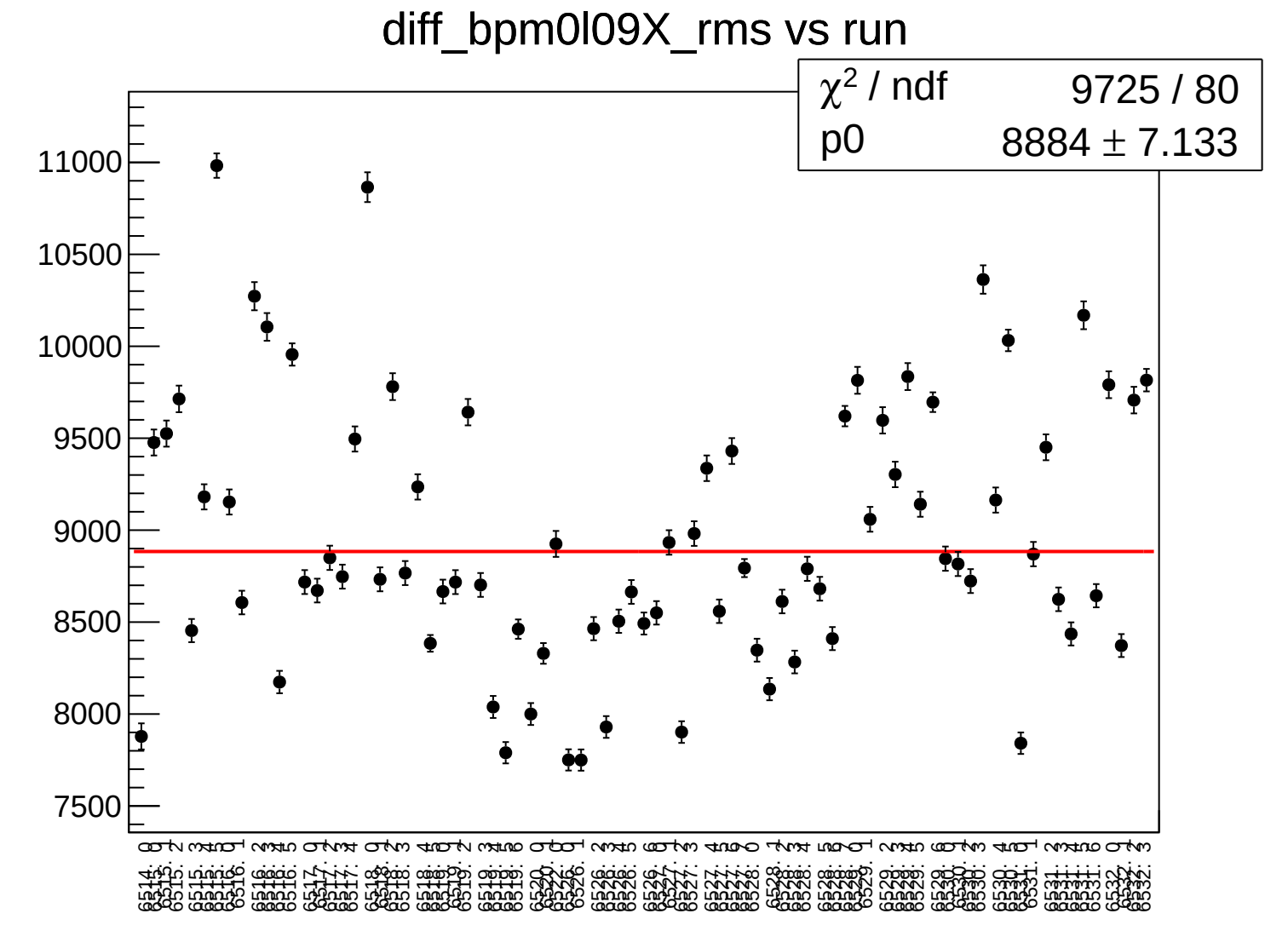

diff_bpm0l08Y_mean vs run
χ² / ndf 85.56 / 80
p0 1.211 ± 1.153
pull
Entries 81
Mean 275.1
Std Dev 0

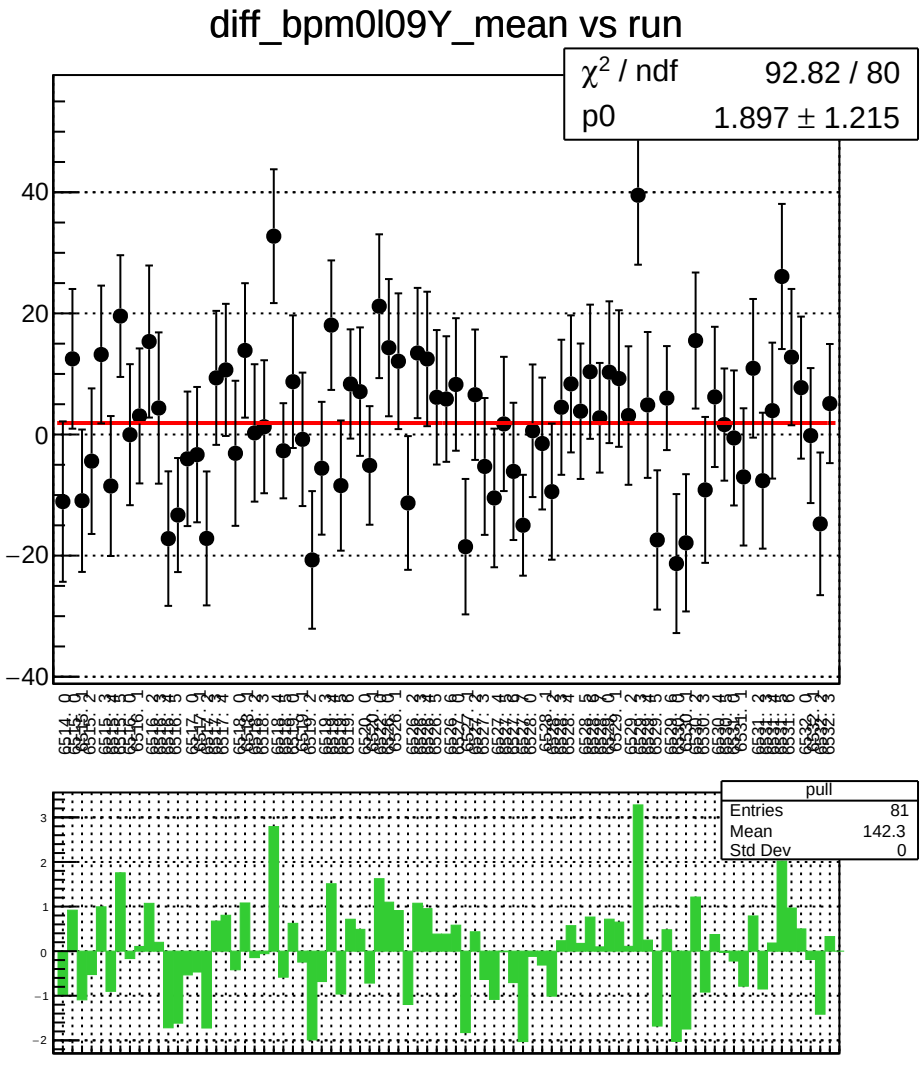

pull1D
Entries 81
Mean 0.01132
Std Dev 1.028

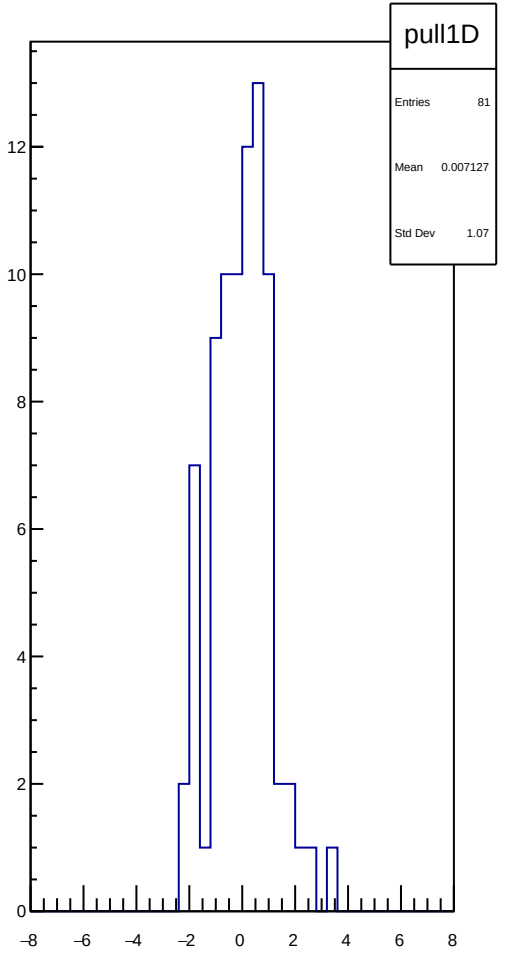

diff_bpm0l08Y_rms vs run
χ² / ndf 1814 / 80
p0 1018 ± 0.8151
1150
1100
1050
1000
950

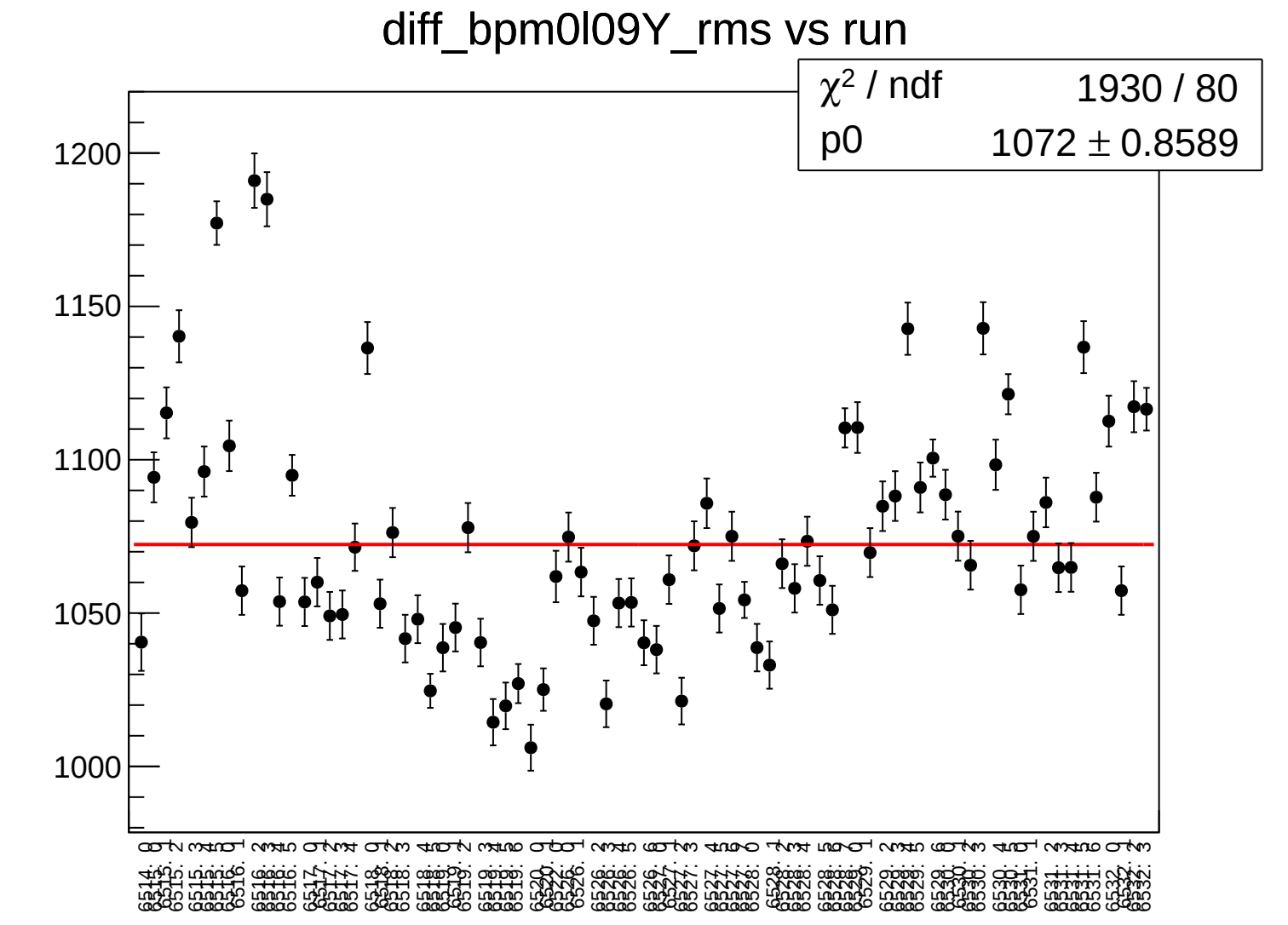

diff_bpm0l09X_mean vs run
χ² / ndf 98.74 / 80
p0 −10.52 ± 10.09
pull
Entries 81
Mean 994.9
Std Dev 0

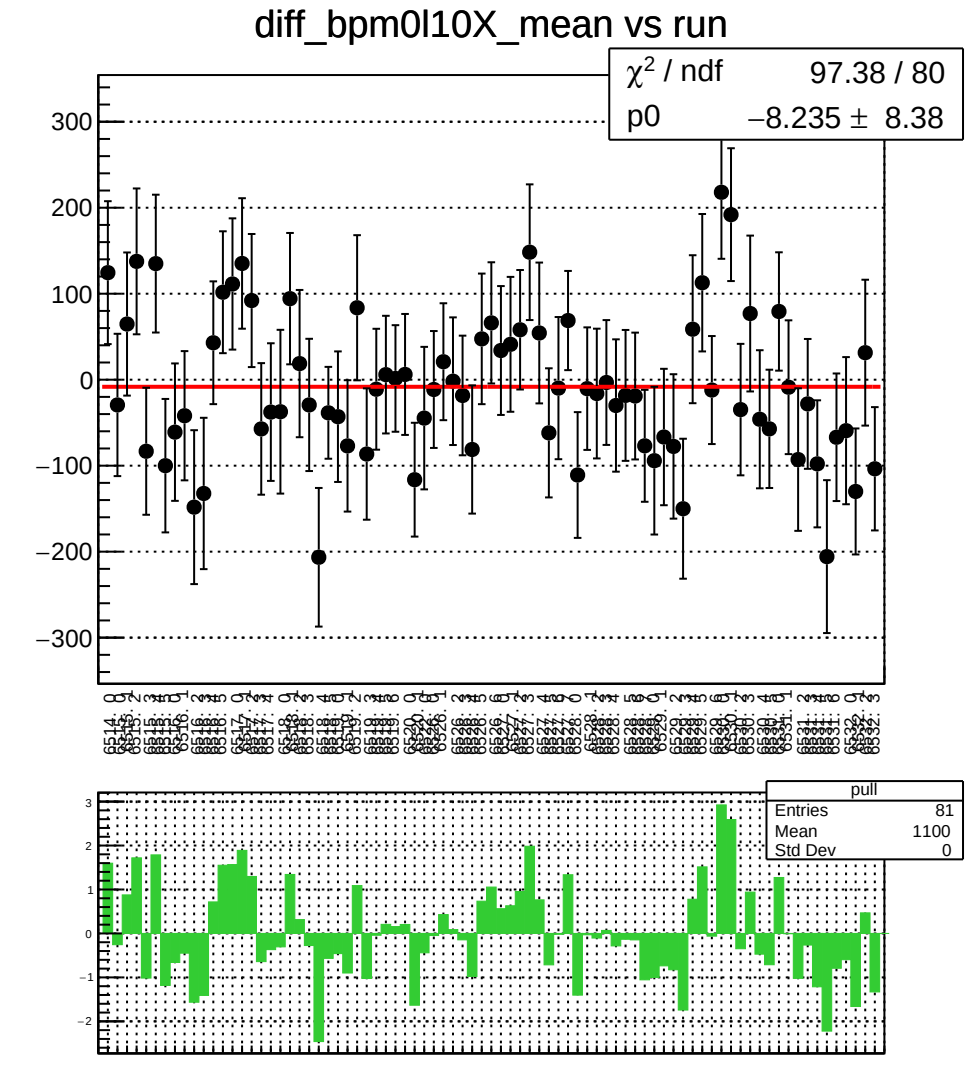

pull1D
Entries 81
Mean −0.004303
Std Dev 1.104

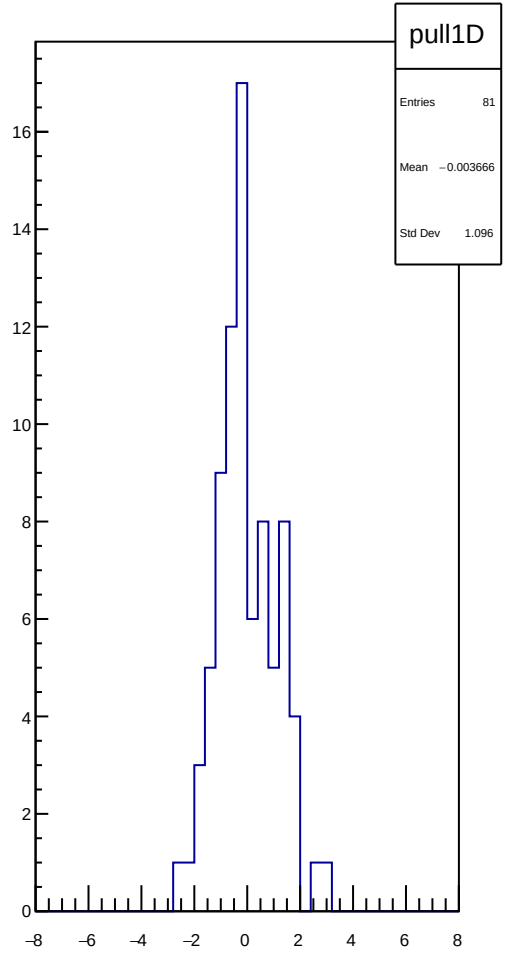

diff_bpm0l09X_rms vs run
χ² / ndf 9725 / 80
p0 8884 ± 7.133
11000
10500
10000
9500
9000
8500
8000
7500

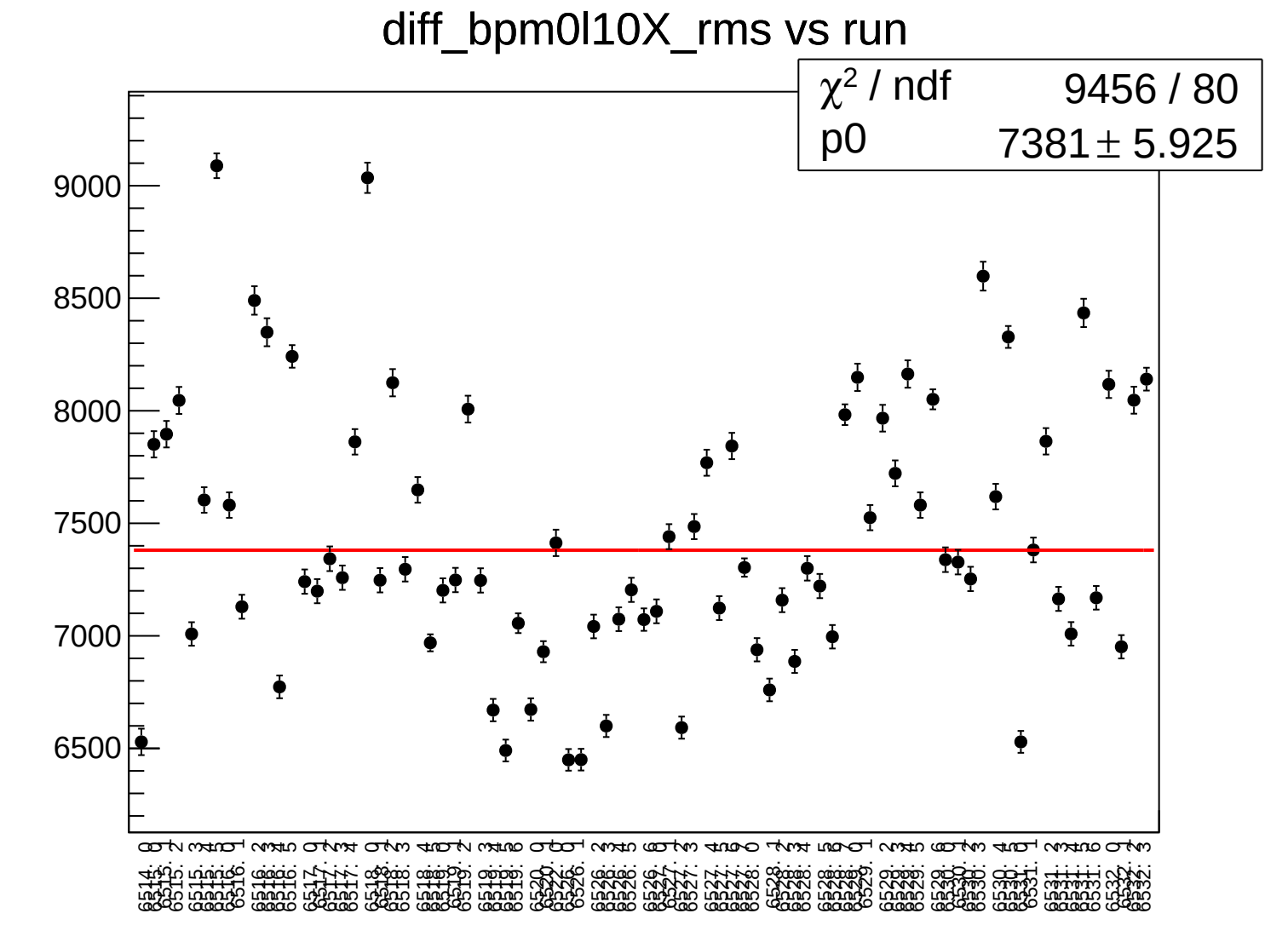

diff_bpm0l09Y_mean vs run
χ^2 / ndf 92.82 / 80
p0 1.897 ± 1.215
pull
Entries 81
Mean 142.3
Std Dev 0

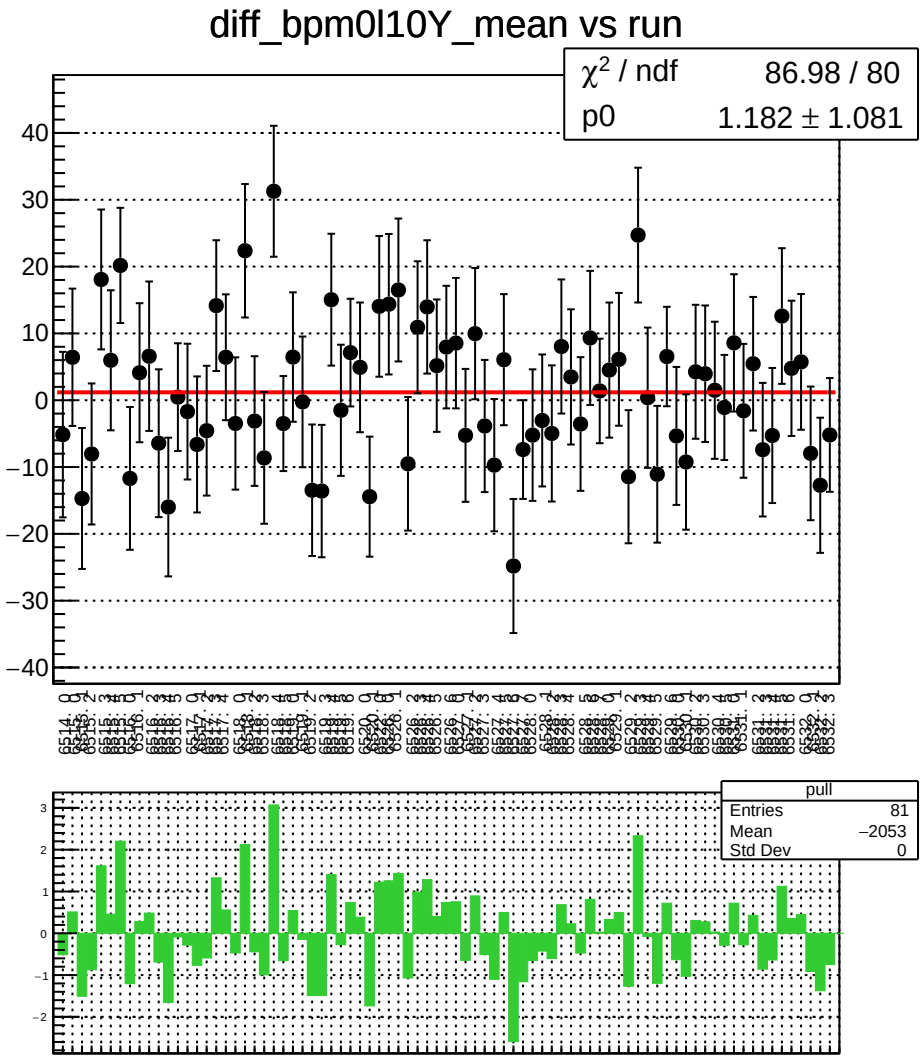

pull1D
Entries 81
Mean 0.007127
Std Dev 1.07

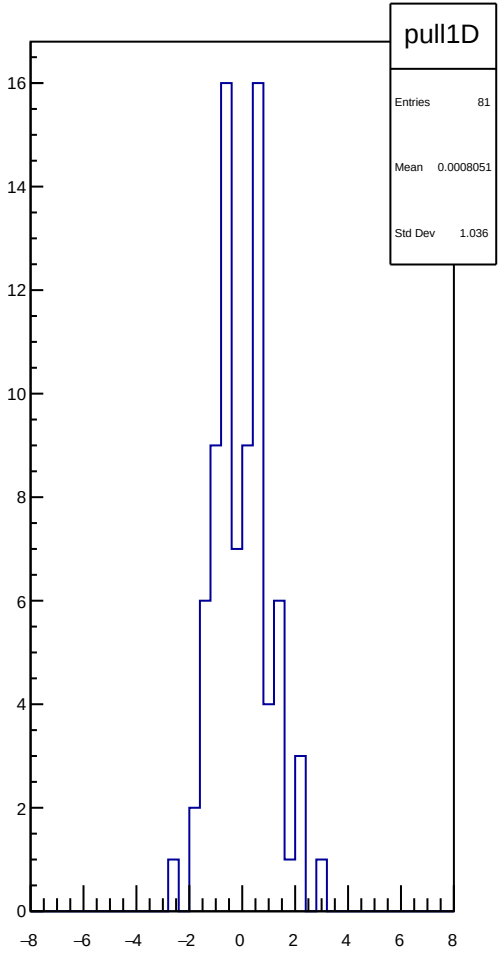

diff_bpm0l09Y_rms vs run
χ² / ndf 1930 / 80
p0 1072 ± 0.8589
1200
1150
1100
1050
1000

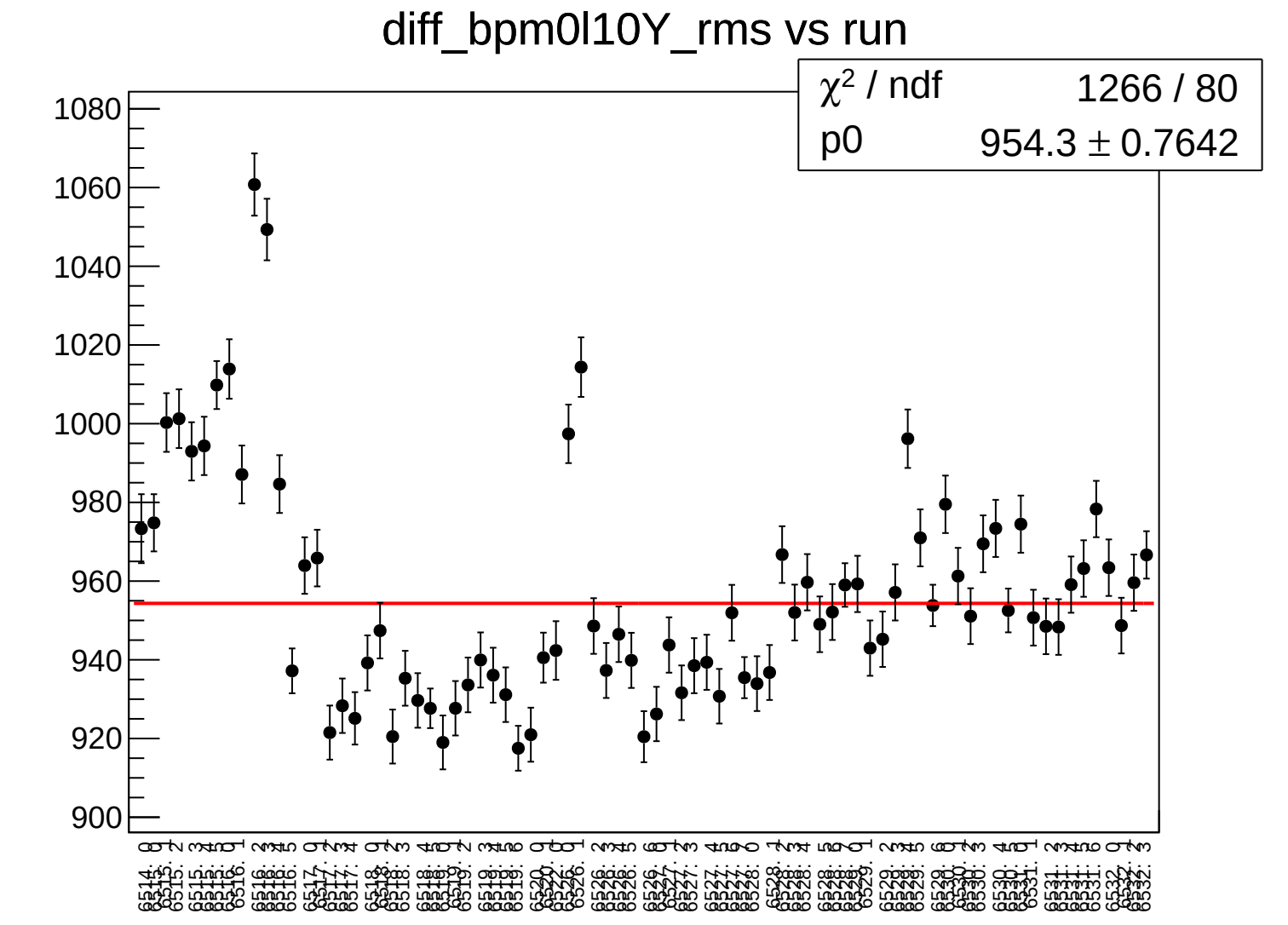

diff_bpm0l10X_mean vs run
χ^2 / ndf 97.38 / 80
p0 −8.235 ± 8.38
300
200
100
0
−100
−200
−300
pull
Entries 81
Mean 1100
Std Dev 0
3
2
1
0
−1
−2

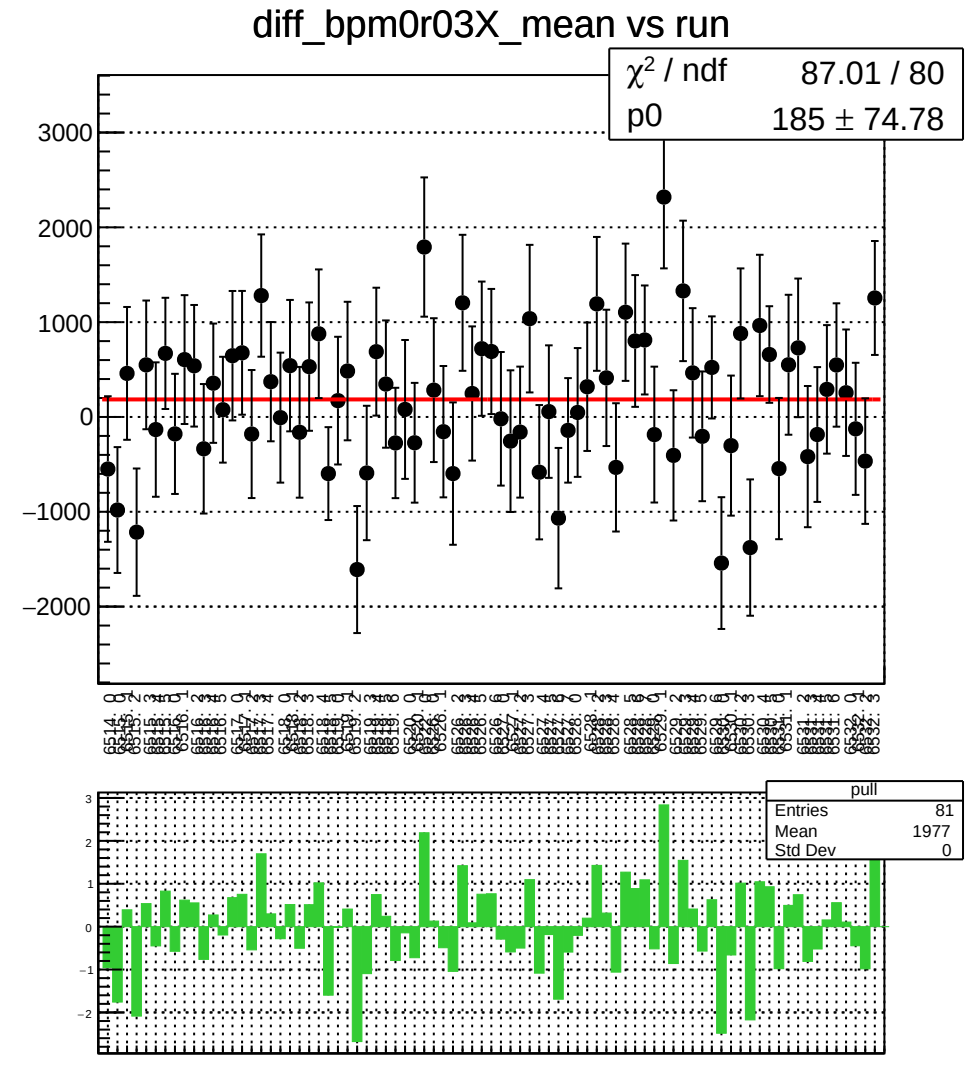

pull1D
Entries 81
Mean −0.003666
Std Dev 1.096
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

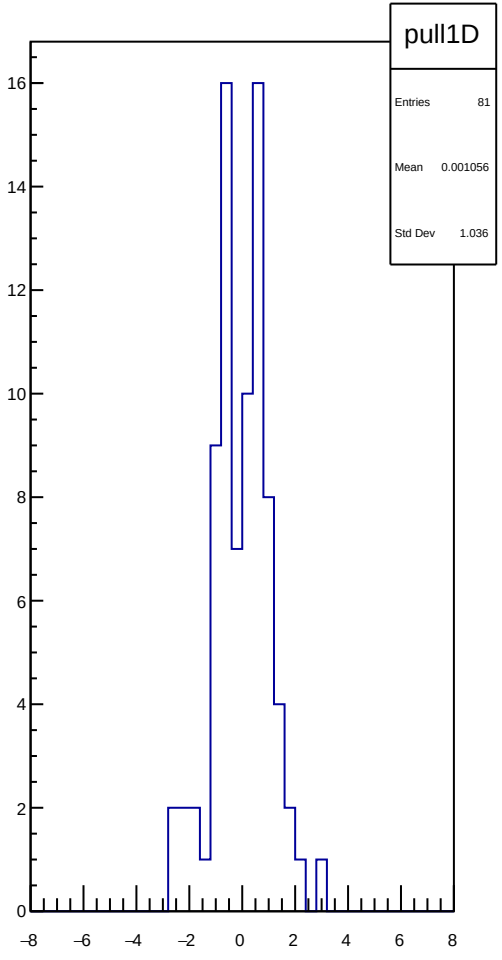

diff_bpm0l10X_rms vs run
χ² / ndf 9456 / 80
p0 7381 ± 5.925
9000
8500
8000
7500
7000
6500

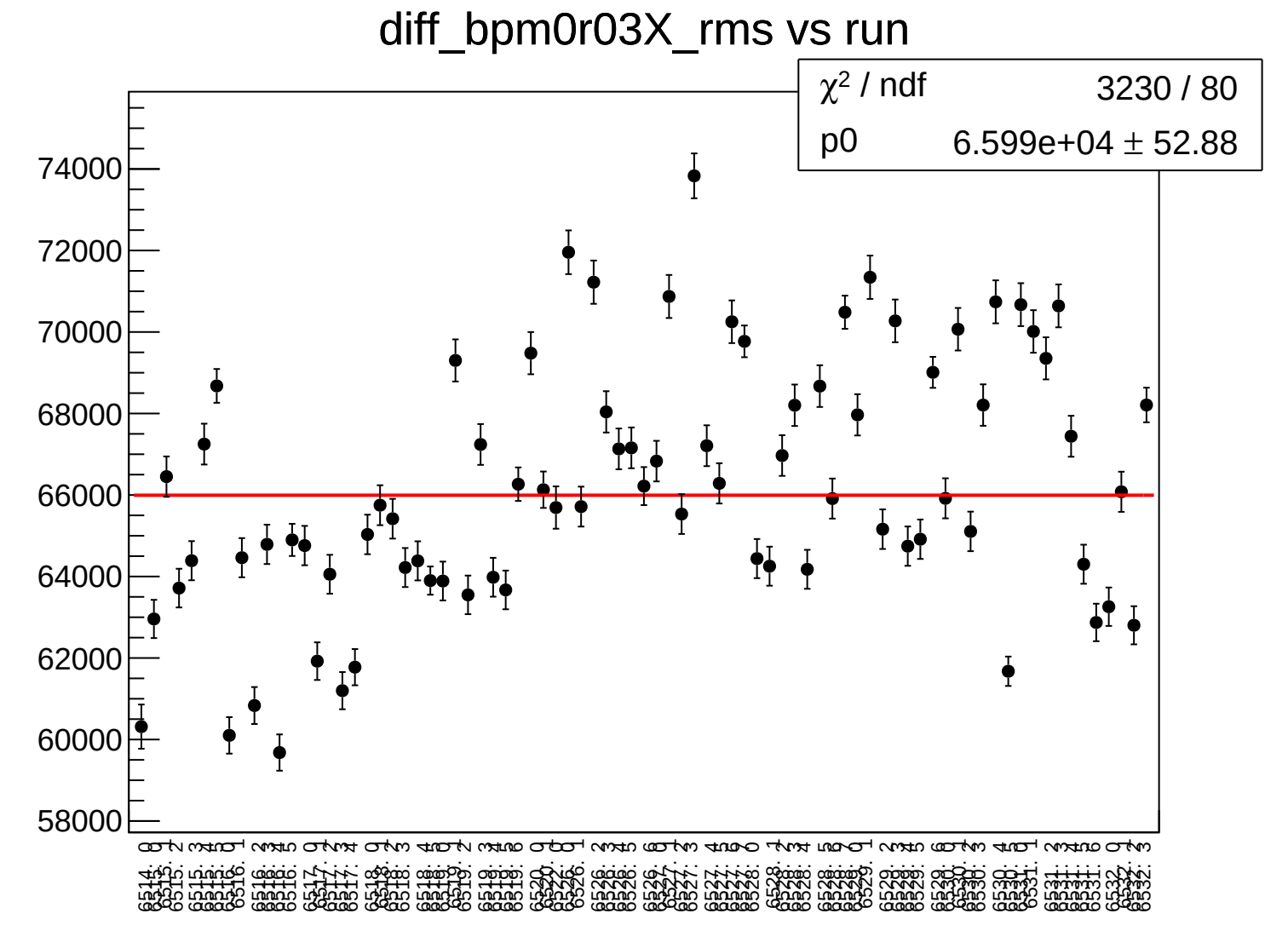

diff_bpm0l10Y_mean vs run
χ² / ndf 86.98 / 80
p0 1.182 ± 1.081
pull
Entries 81
Mean −2053
Std Dev 0

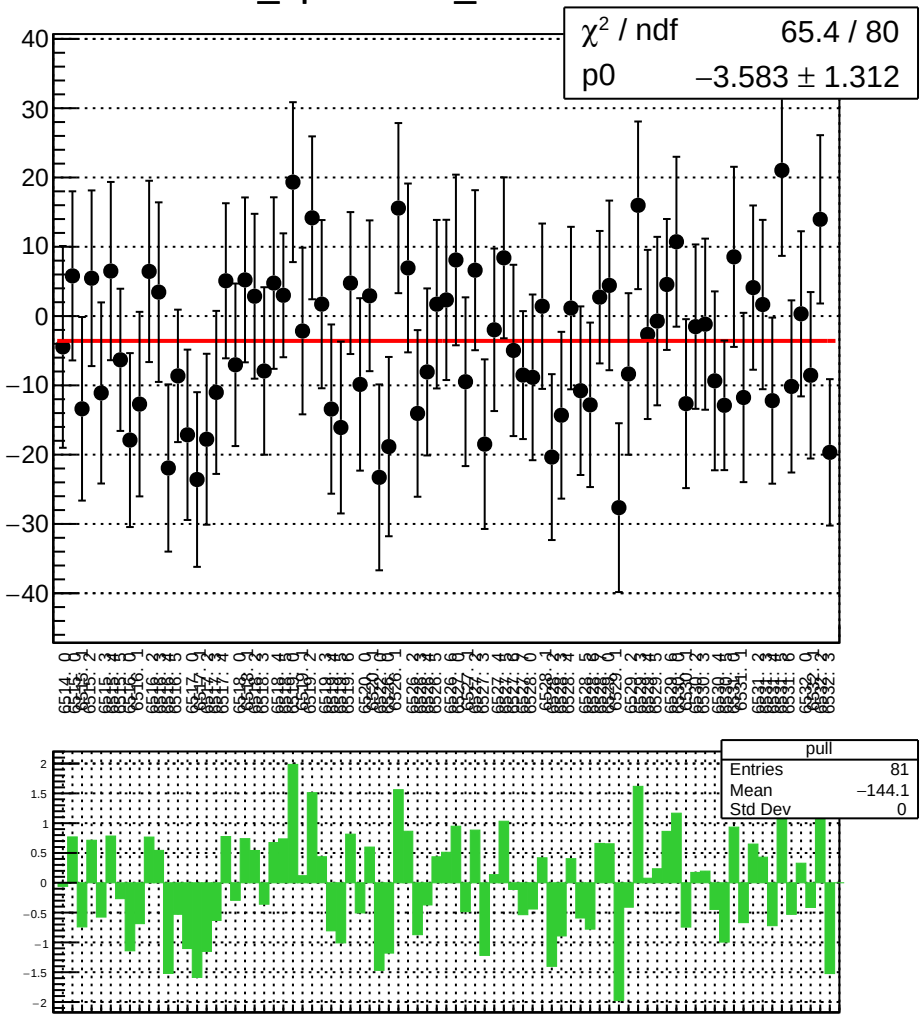

pull1D
Entries 81
Mean 0.0008051
Std Dev 1.036

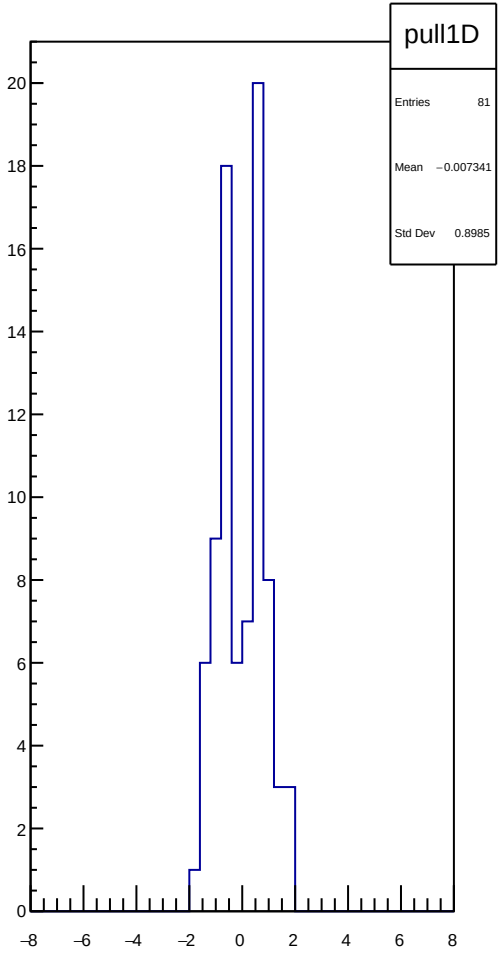

diff_bpm0l10Y_rms vs run
χ² / ndf 1266 / 80
p0 954.3 ± 0.7642
1080
1060
1040
1020
1000
980
960
940
920
900

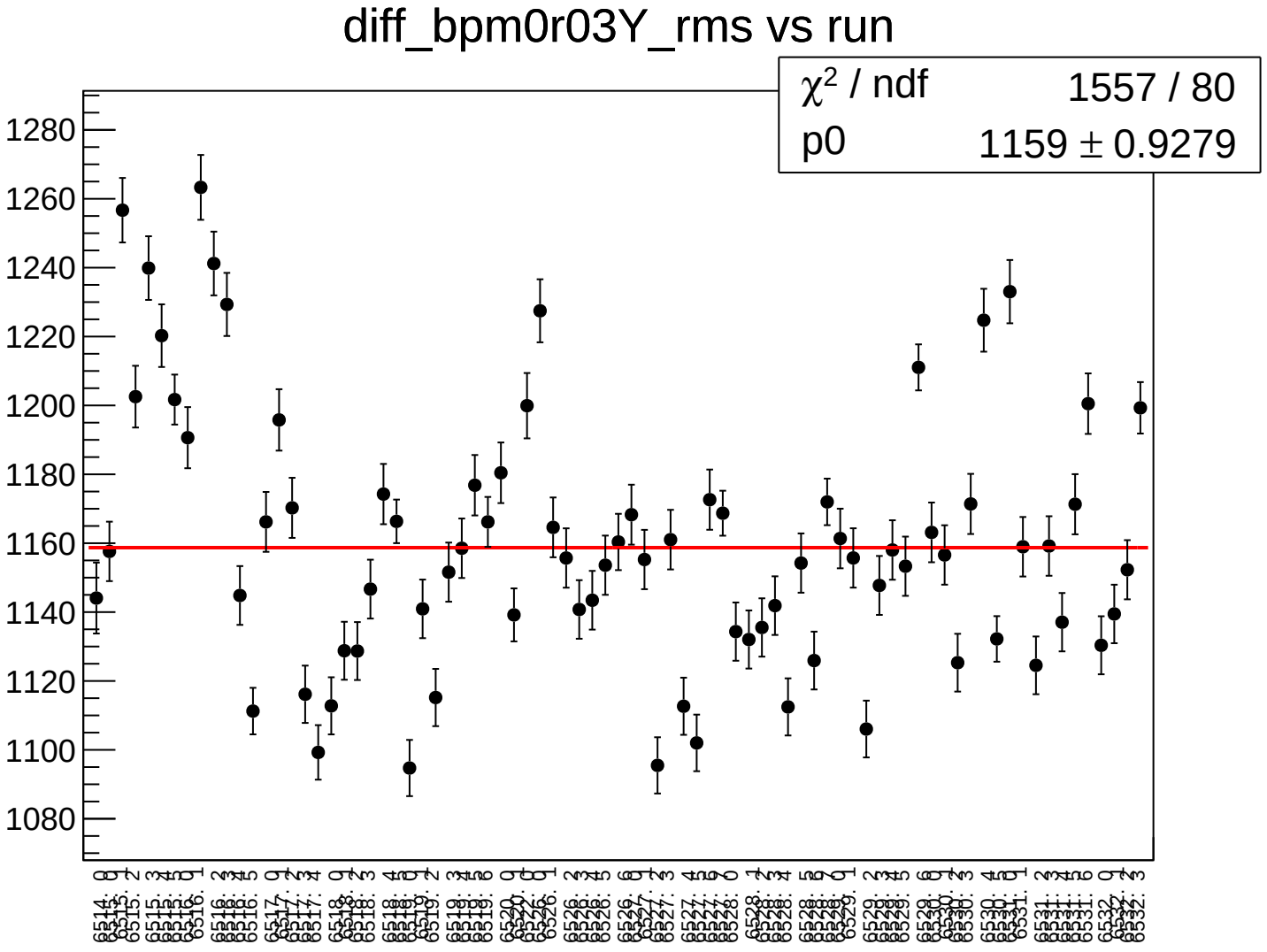

diff_bpm0r03X_mean vs run
χ² / ndf 87.01 / 80
p0 185 ± 74.78
3000
2000
1000
0
−1000
−2000
pull
Entries 81
Mean 1977
Std Dev 0
3
2
1
0
−1
−2

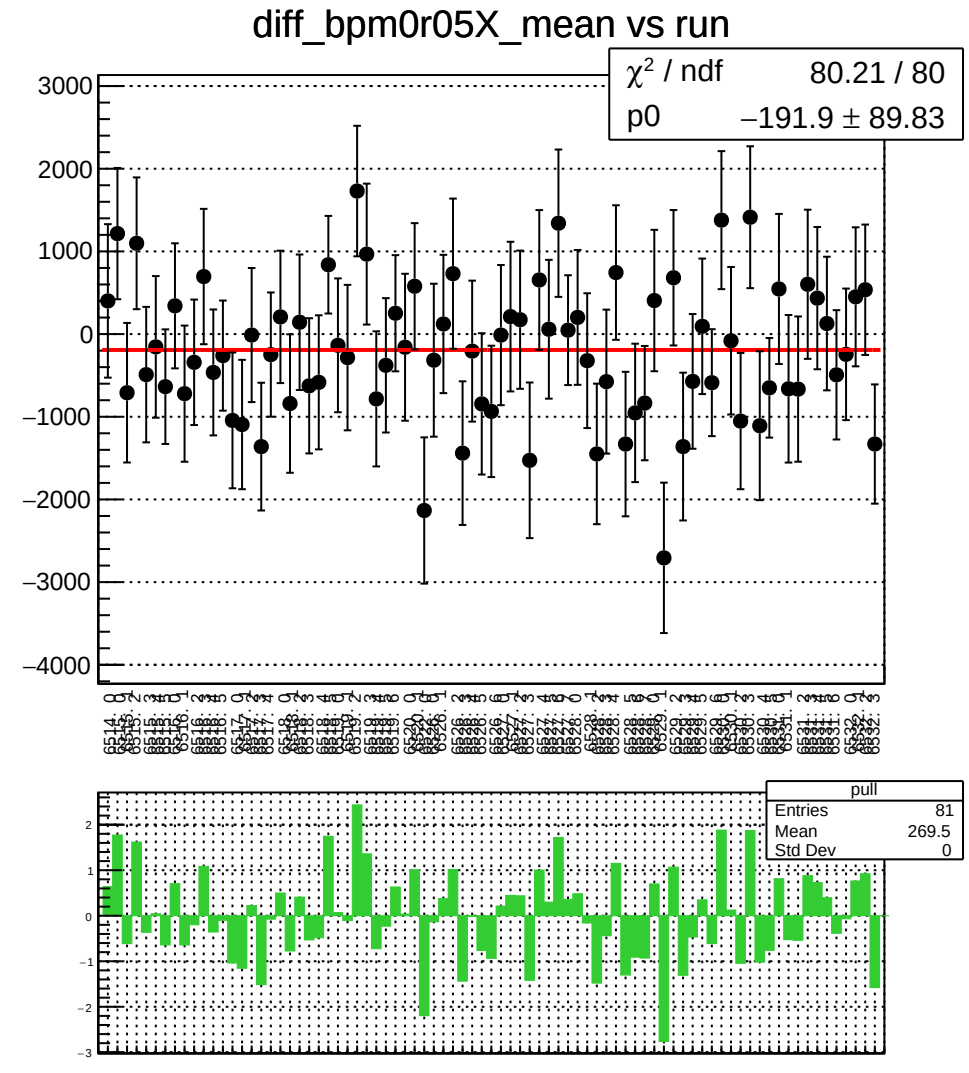

pull1D
Entries 81
Mean 0.001056
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

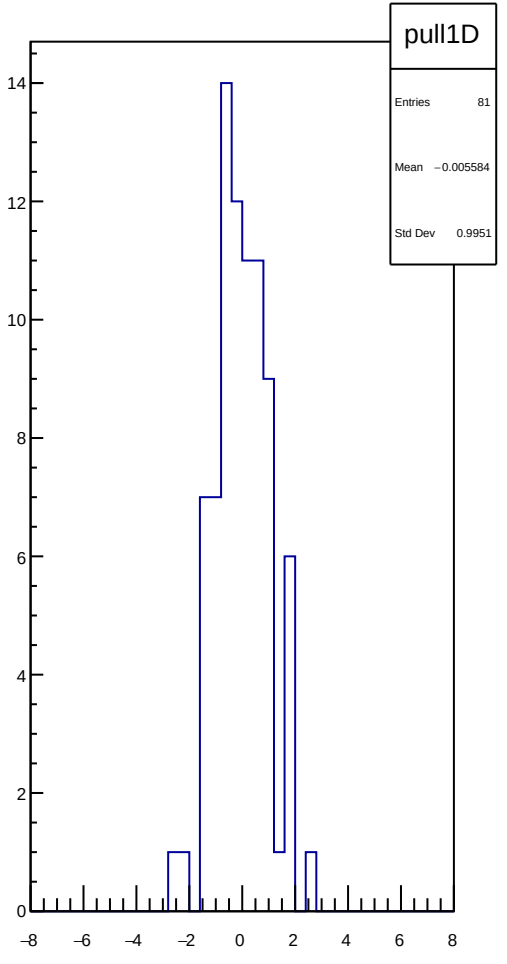

diff_bpm0r03X_rms vs run
χ² / ndf 3230 / 80
p0 6.599e+04 ± 52.88
74000
72000
70000
68000
66000
64000
62000
60000
58000

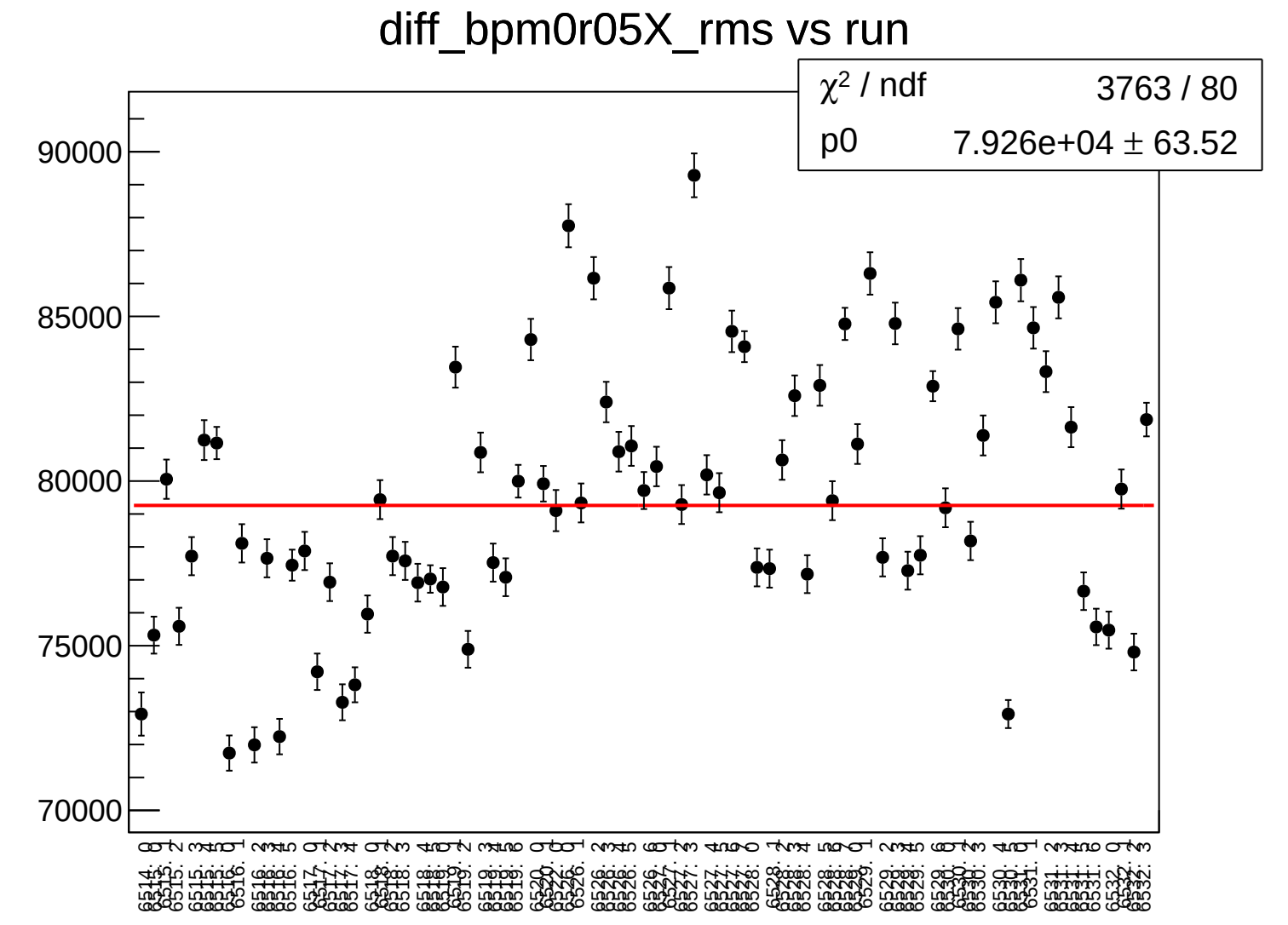

diff_bpm0r03Y_mean vs run
χ² / ndf 65.4 / 80
p0 −3.583 ± 1.312
pull
Entries 81
Mean −144.1
Std Dev 0

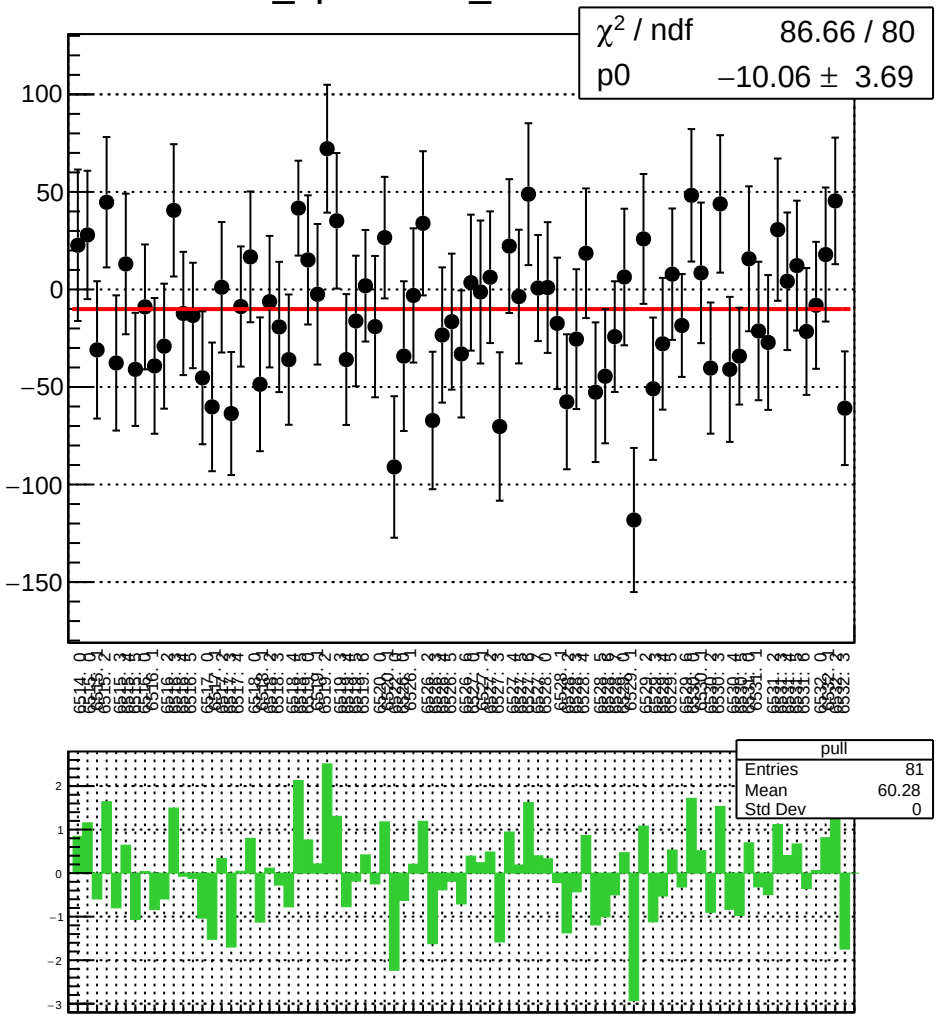

pull1D
Entries 81
Mean −0.007341
Std Dev 0.8985

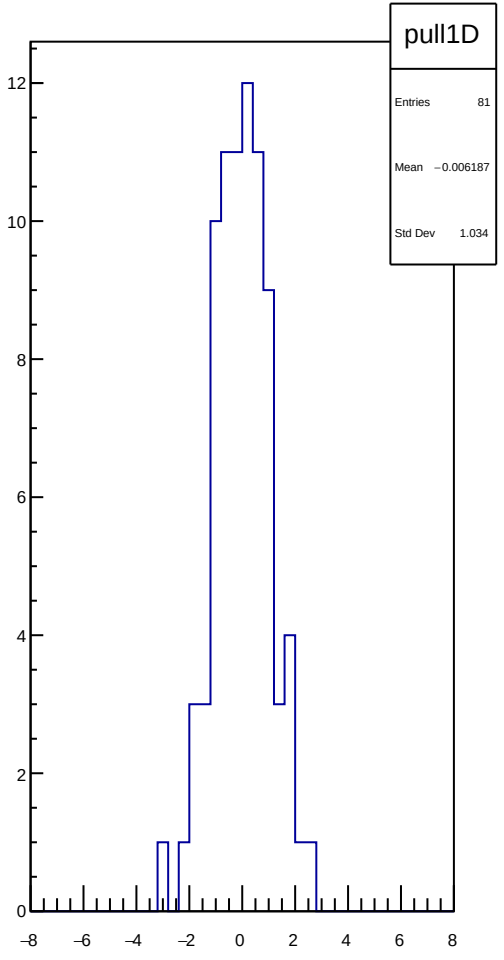

diff_bpm0r03Y_rms vs run
χ² / ndf 1557 / 80
p0 1159 ± 0.9279
1280
1260
1240
1220
1200
1180
1160
1140
1120
1100
1080

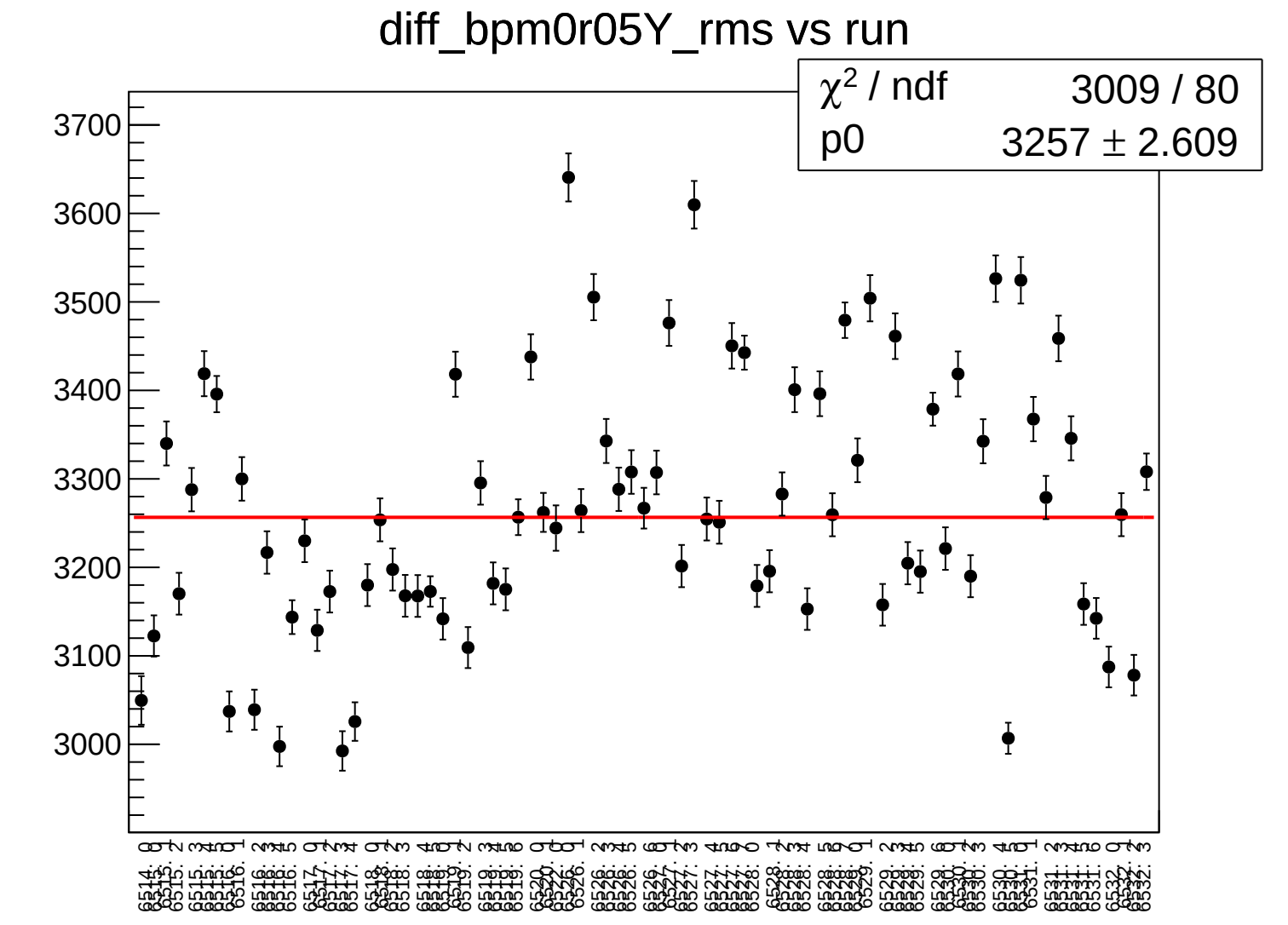

diff_bpm0r05X_mean vs run
χ² / ndf 80.21 / 80
p0 −191.9 ± 89.83
pull
Entries 81
Mean 269.5
Std Dev 0

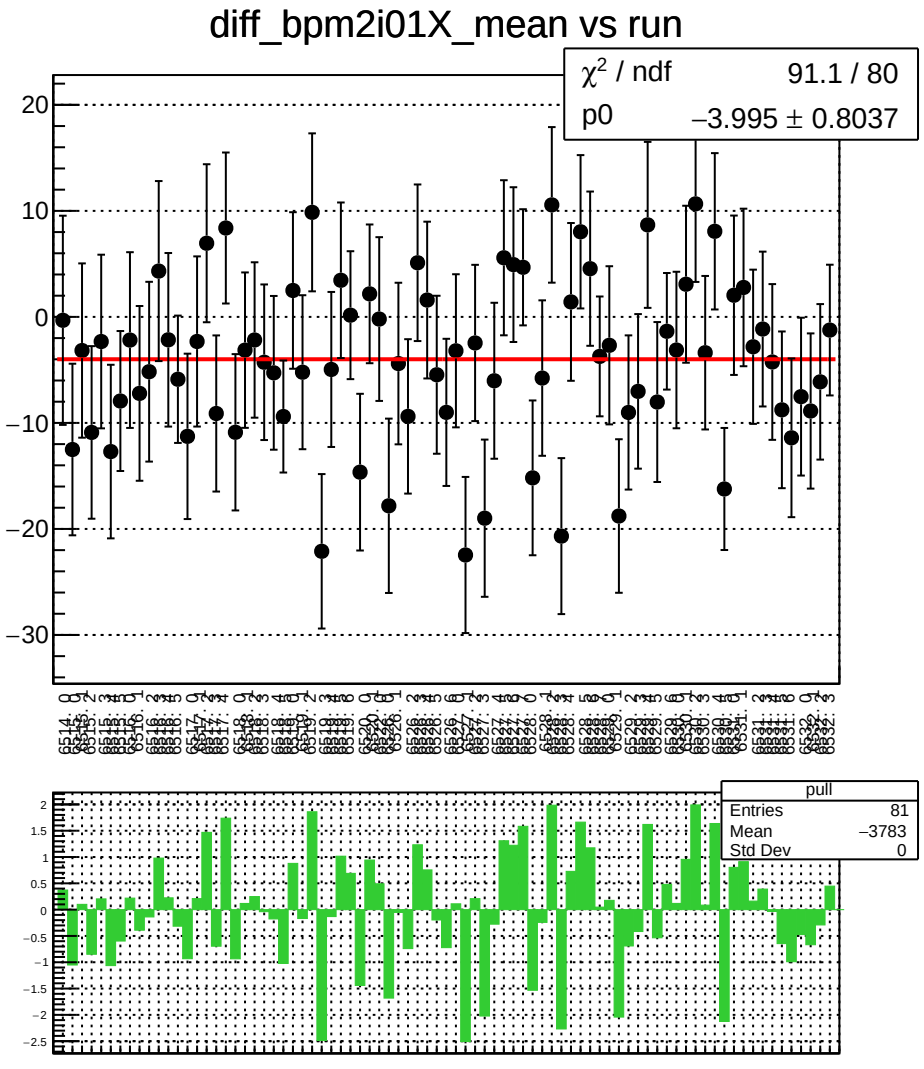

pull1D
Entries 81
Mean −0.005584
Std Dev 0.9951

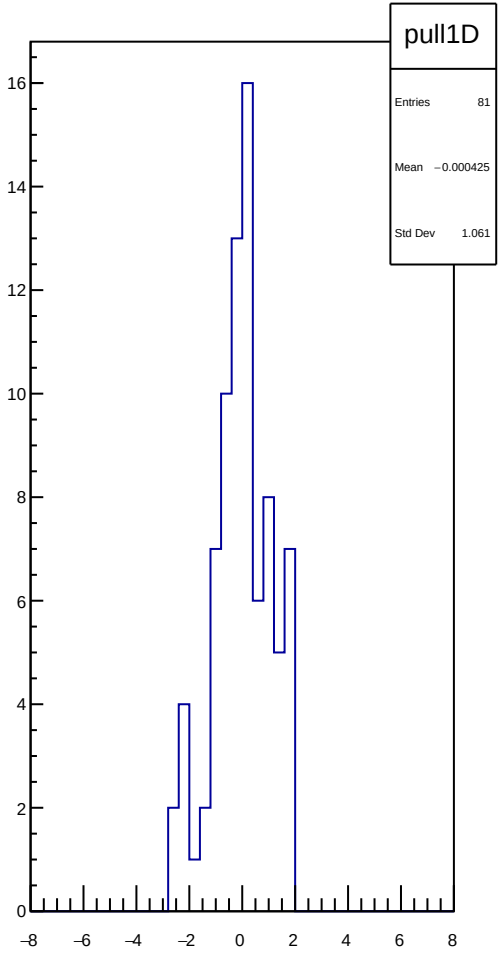

diff_bpm0r05X_rms vs run
χ² / ndf 3763 / 80
p0 7.926e+04 ± 63.52
90000
85000
80000
75000
70000

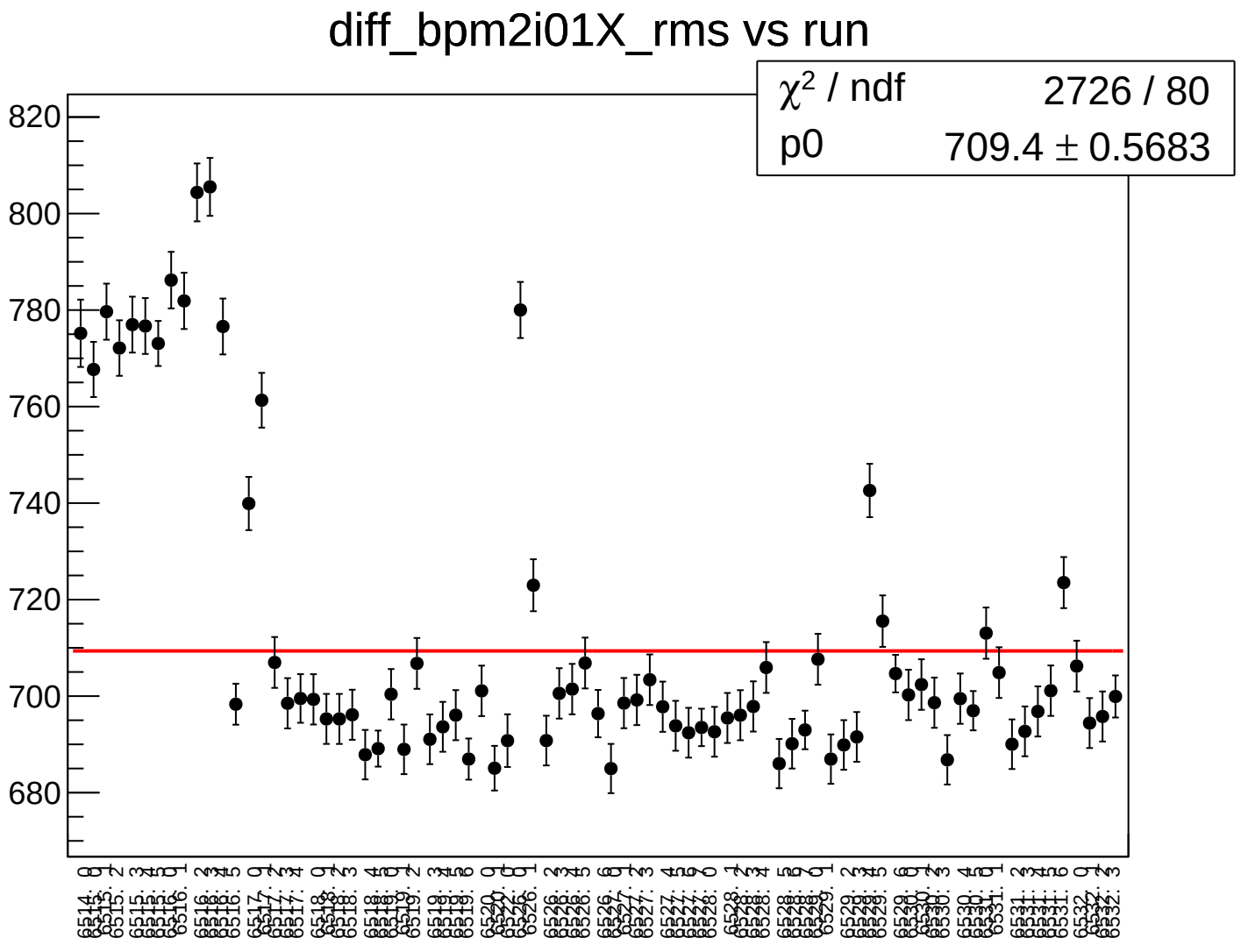

diff_bpm0r05Y_mean vs run
χ² / ndf 86.66 / 80
p0 −10.06 ± 3.69
pull
Entries 81
Mean 60.28
Std Dev 0

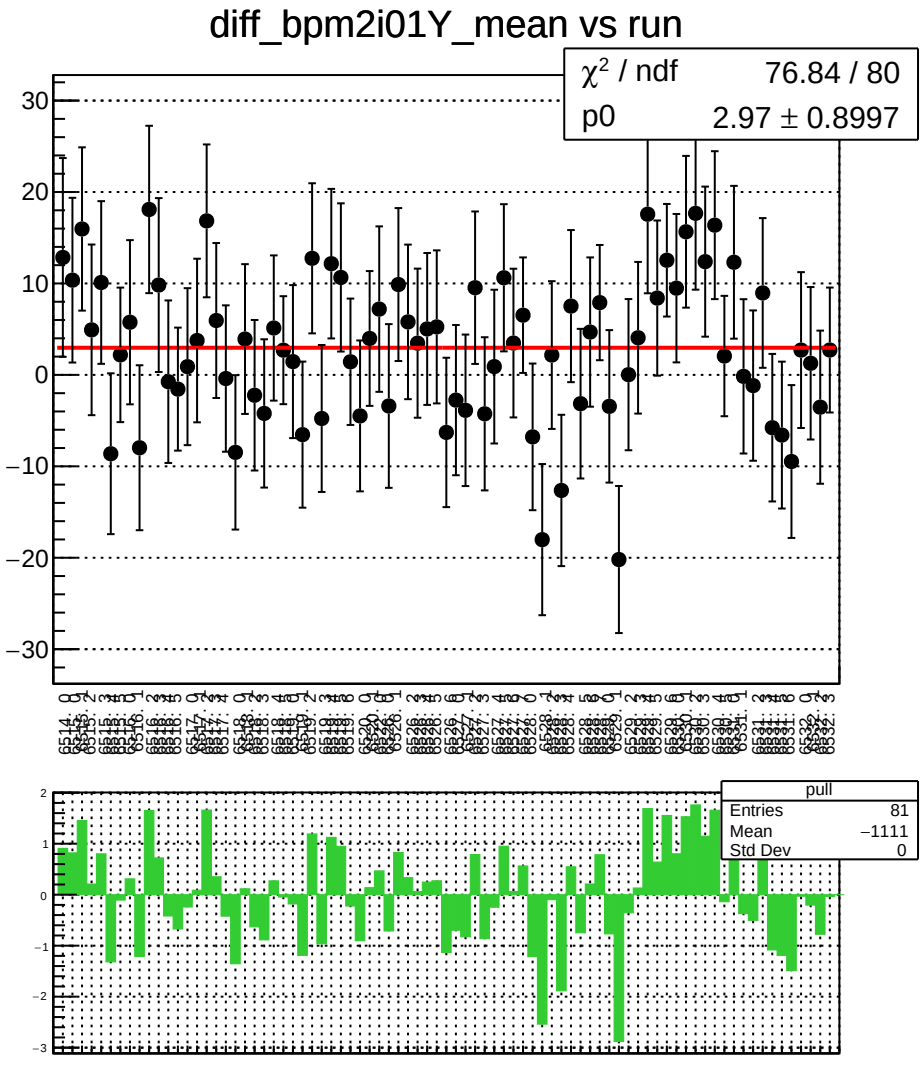

pull1D
Entries 81
Mean −0.006187
Std Dev 1.034

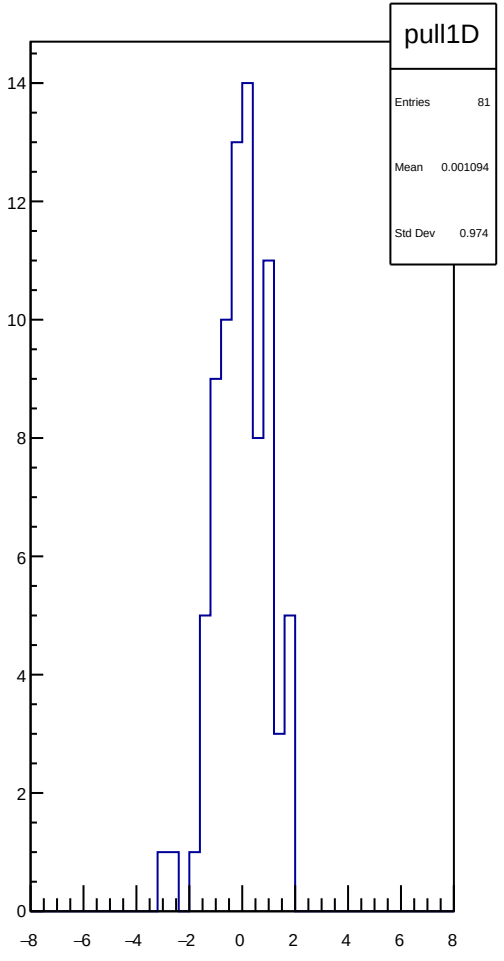

diff_bpm0r05Y_rms vs run
χ² / ndf 3009 / 80
p0 3257 ± 2.609
3700
3600
3500
3400
3300
3200
3100
3000

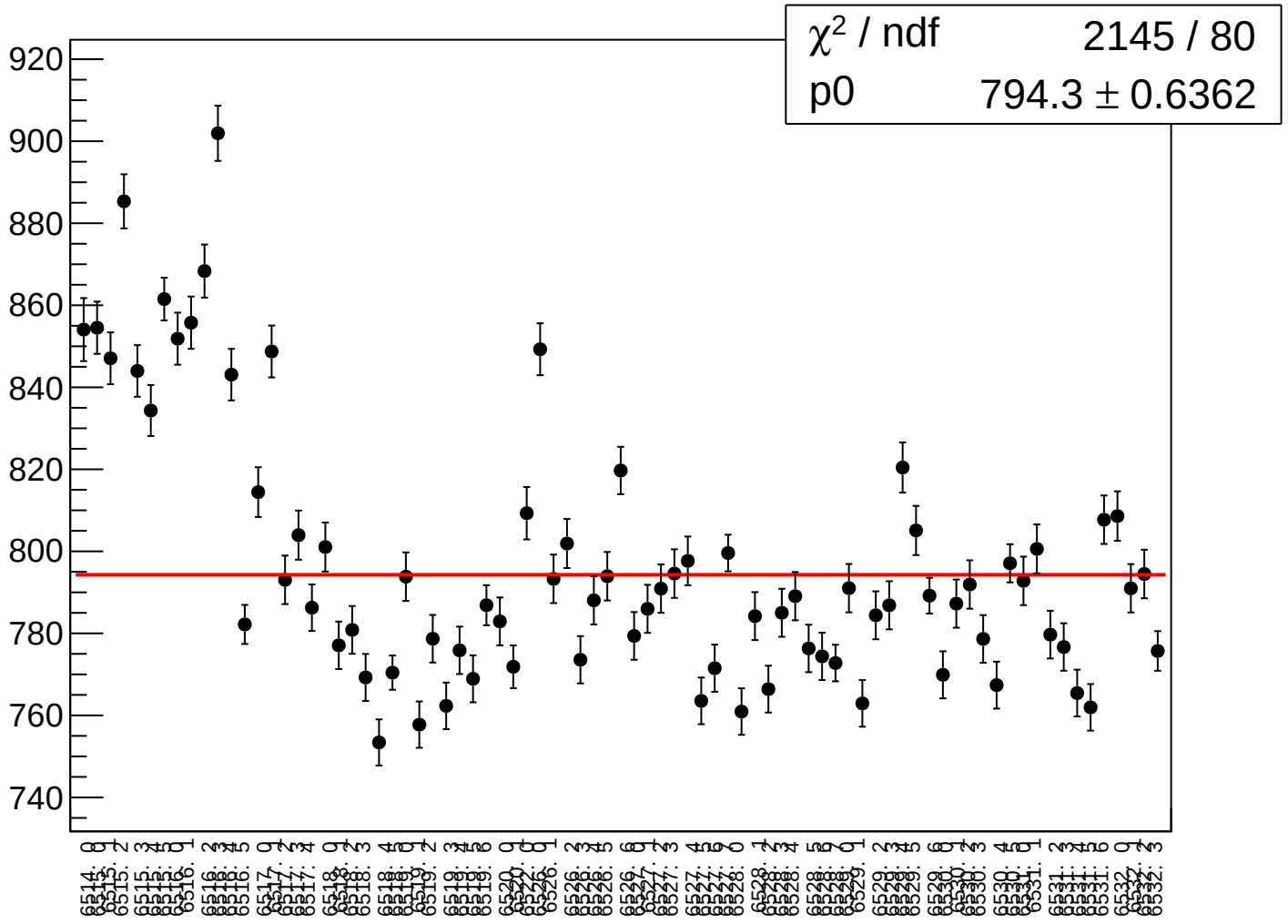

diff_bpm2i01X_mean vs run
χ² / ndf 91.1 / 80
p0 −3.995 ± 0.8037
pull
Entries 81
Mean −3783
Std Dev 0

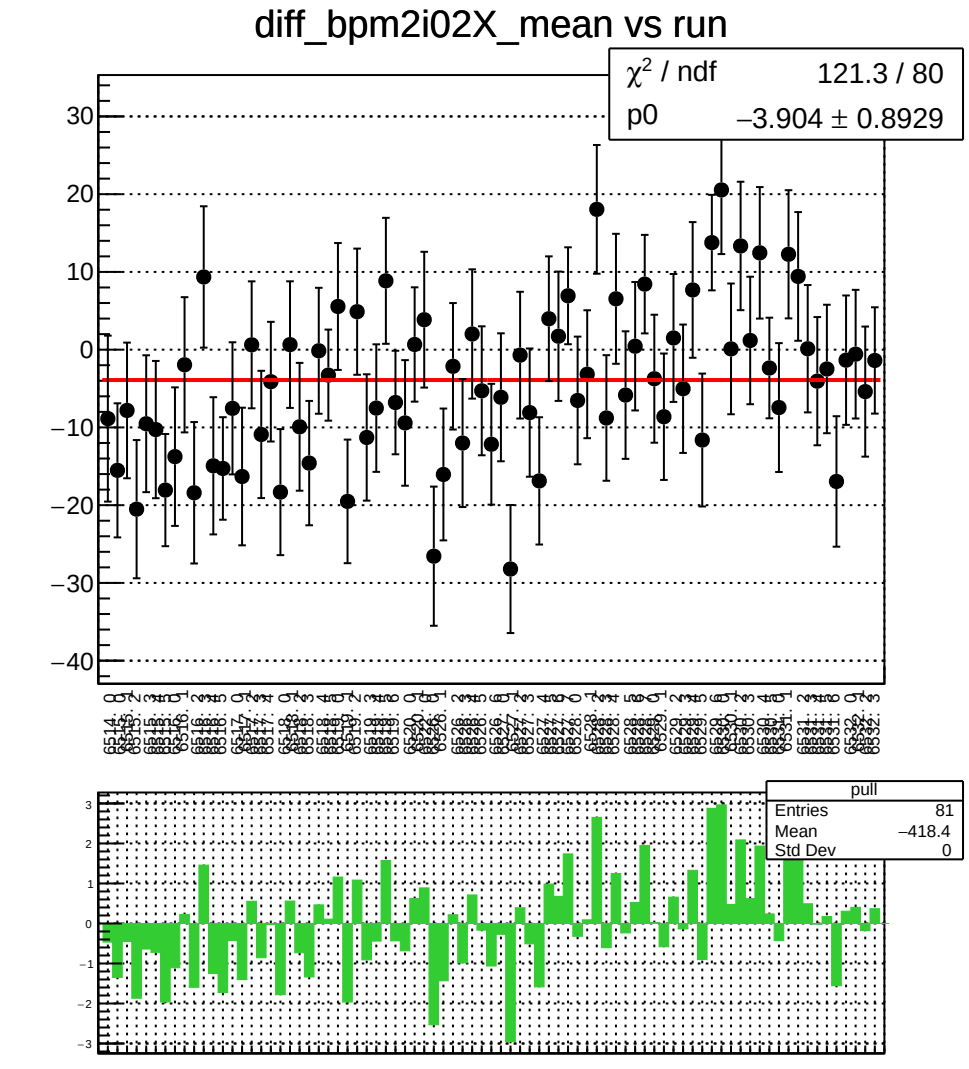

pull1D
Entries 81
Mean −0.000425
Std Dev 1.061

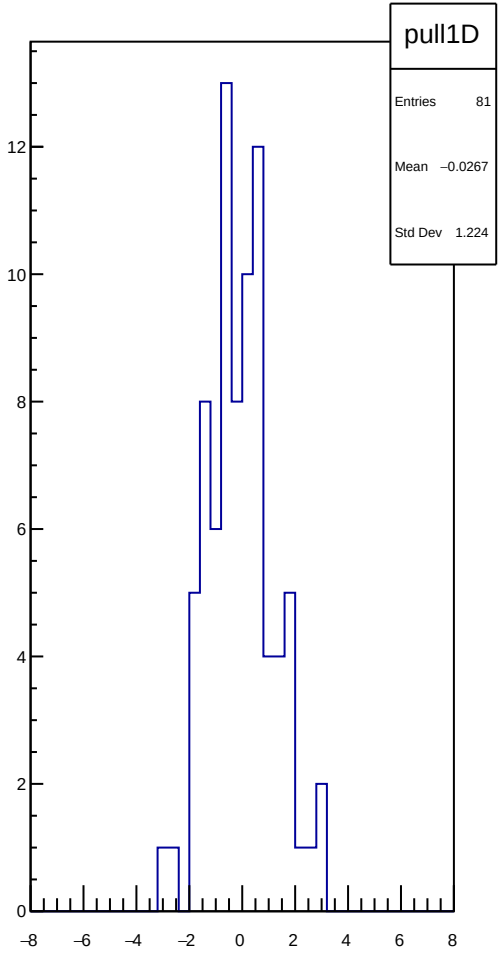

diff_bpm2i01X_rms vs run
χ² / ndf 2726 / 80
p0 709.4 ± 0.5683
820
800
780
760
740
720
700
680

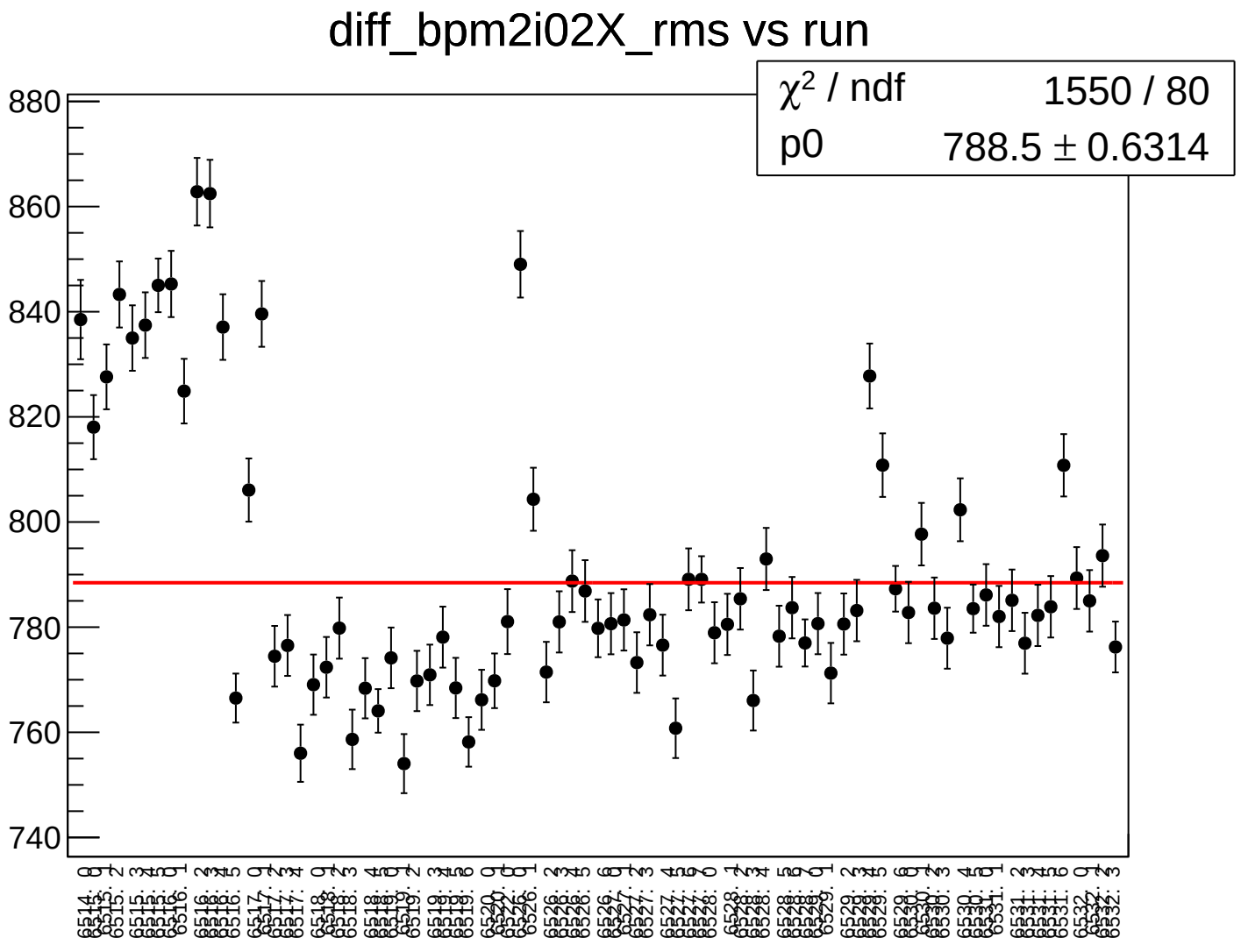

diff_bpm2i01Y_mean vs run
χ² / ndf 76.84 / 80
p0 2.97 ± 0.8997
pull
Entries 81
Mean −1111
Std Dev 0

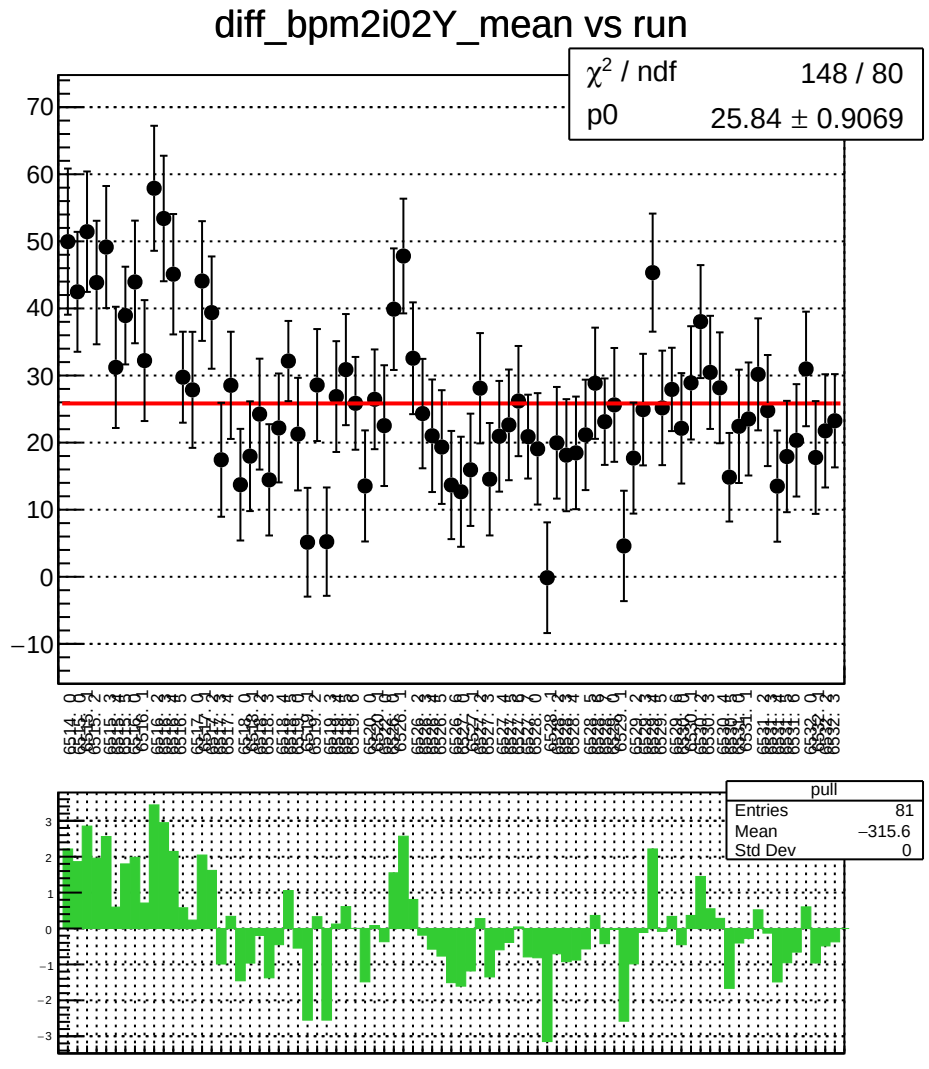

pull1D
Entries 81
Mean 0.001094
Std Dev 0.974

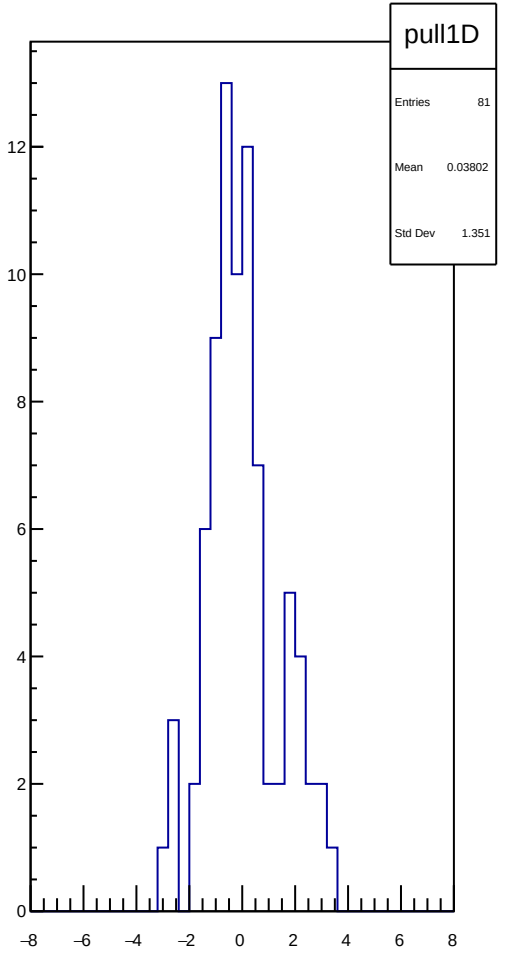

diff_bpm2i01Y_rms vs run
χ² / ndf 2145 / 80
p0 794.3 ± 0.6362
920
900
880
860
840
820
800
780
760
740

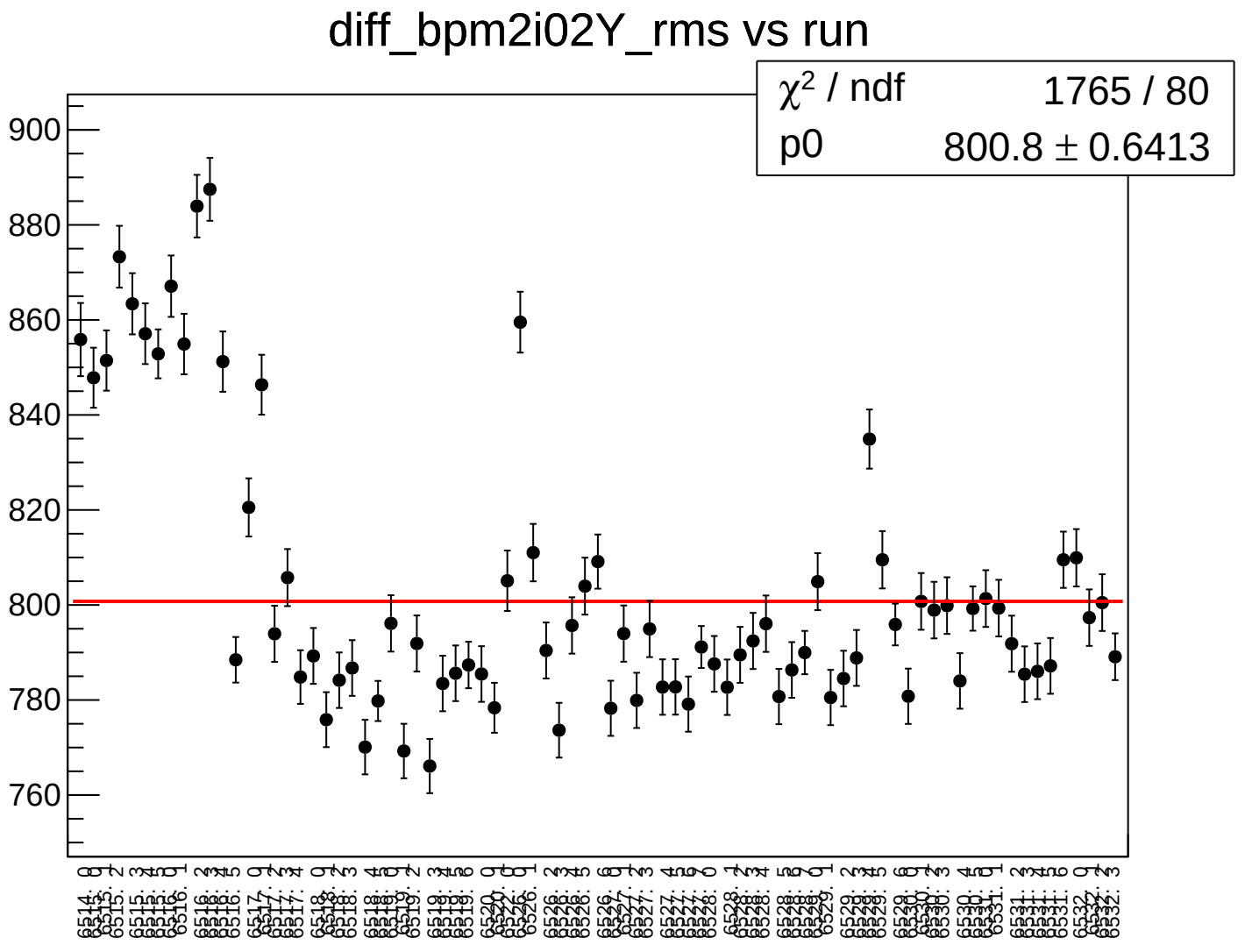

diff_bpm2i02X_mean vs run
χ² / ndf 121.3 / 80
p0 −3.904 ± 0.8929
pull
Entries 81
Mean −418.4
Std Dev 0

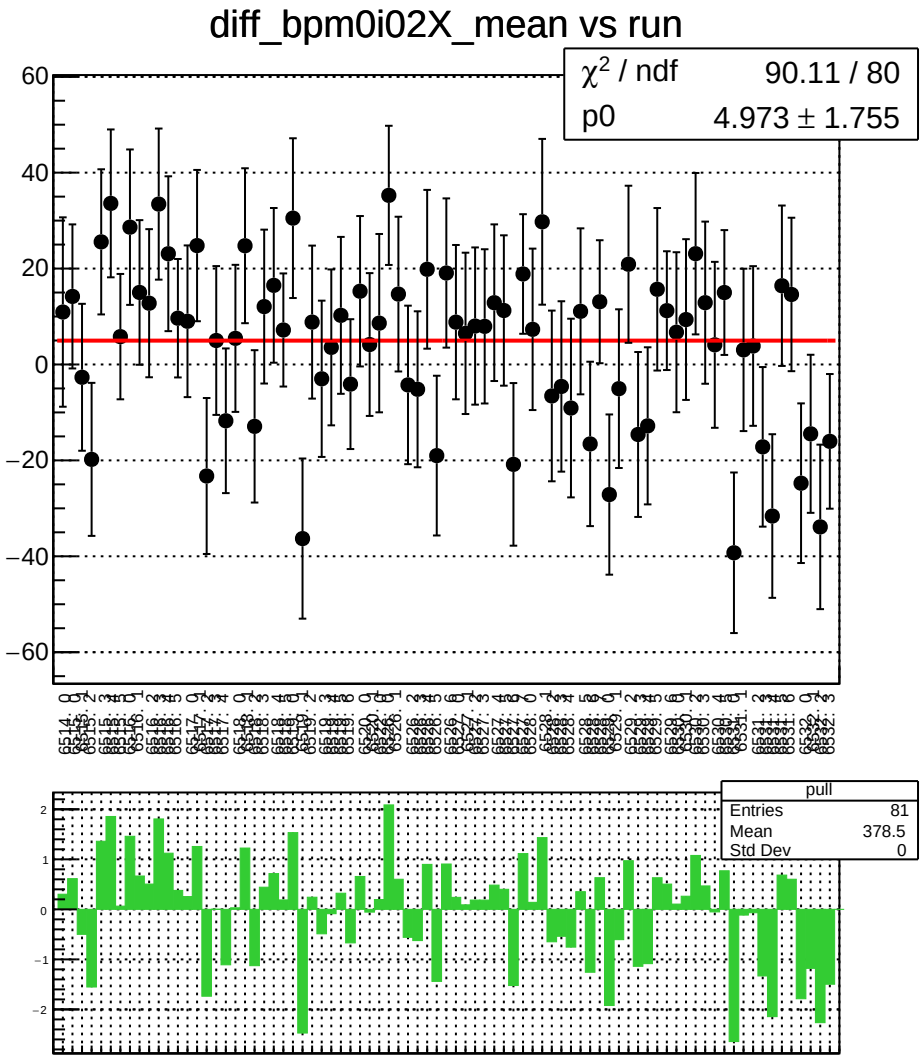

pull1D
Entries 81
Mean −0.0267
Std Dev 1.224

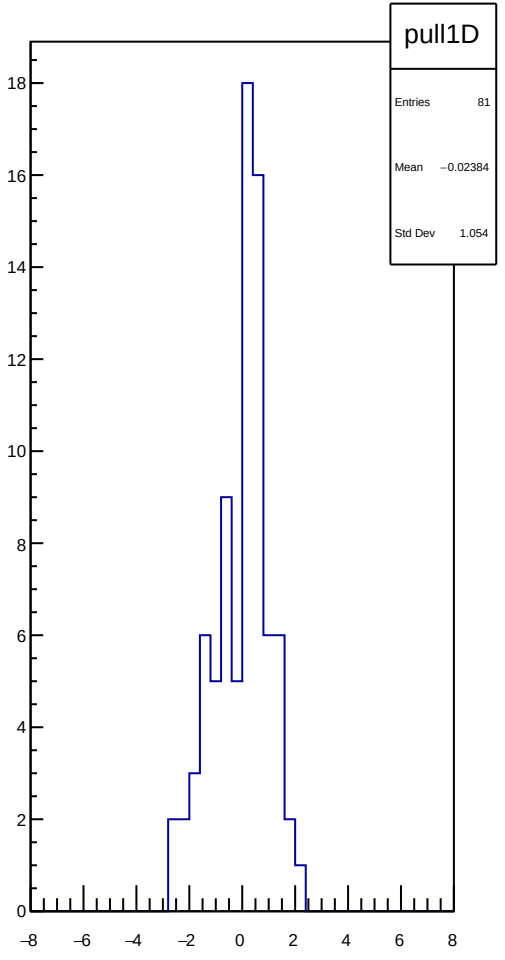

diff_bpm2i02X_rms vs run
χ² / ndf 1550 / 80
p0 788.5 ± 0.6314
880
860
840
820
800
780
760
740

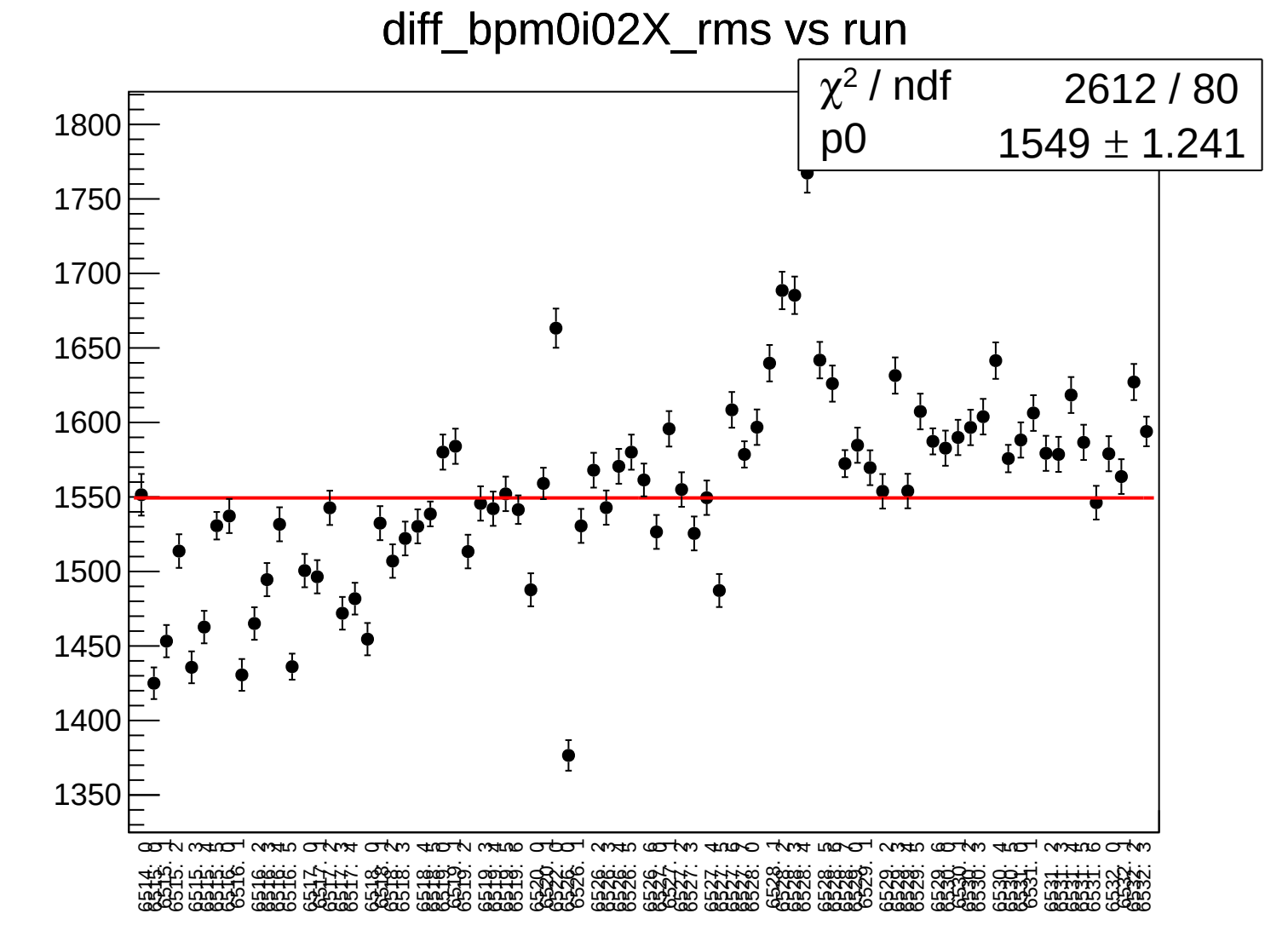

diff_bpm2i02Y_mean vs run
χ² / ndf 148 / 80
p0 25.84 ± 0.9069
pull
Entries 81
Mean −315.6
Std Dev 0

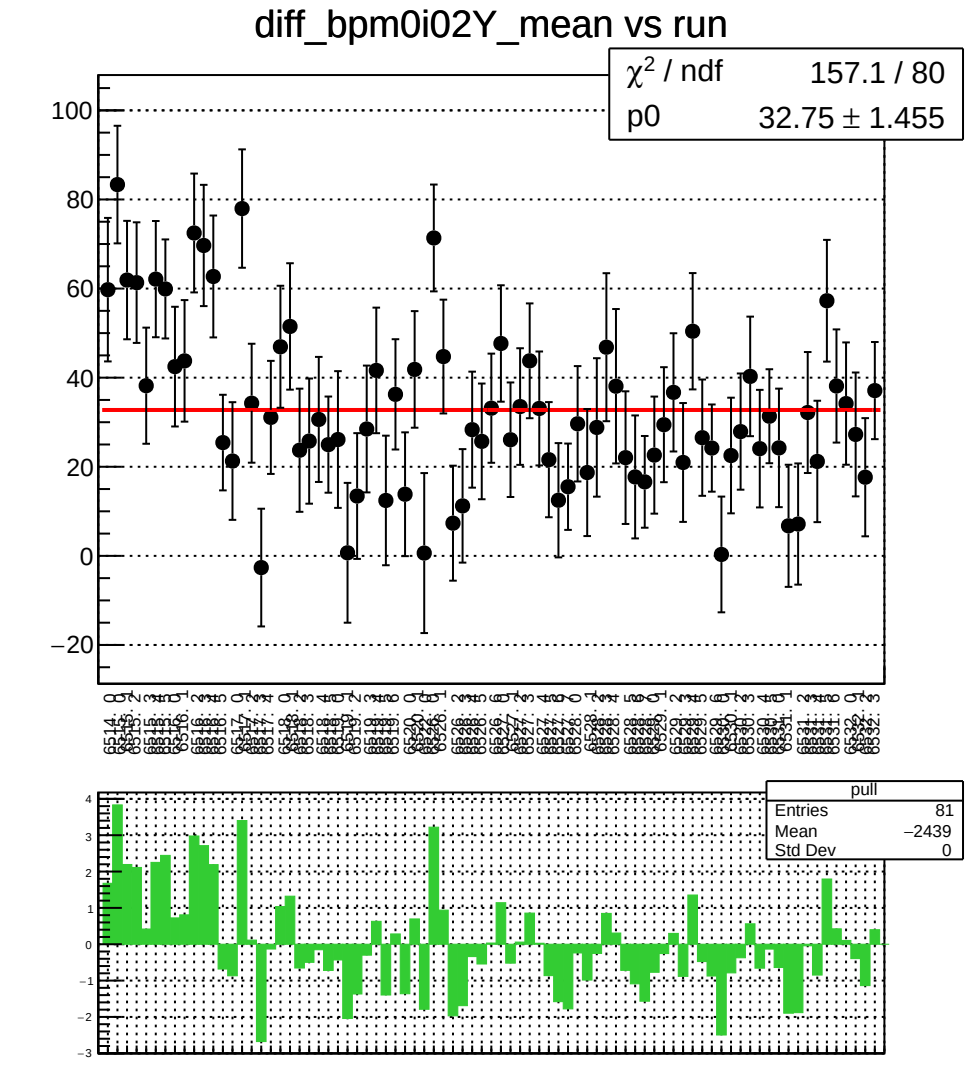

pull1D
Entries 81
Mean 0.03802
Std Dev 1.351

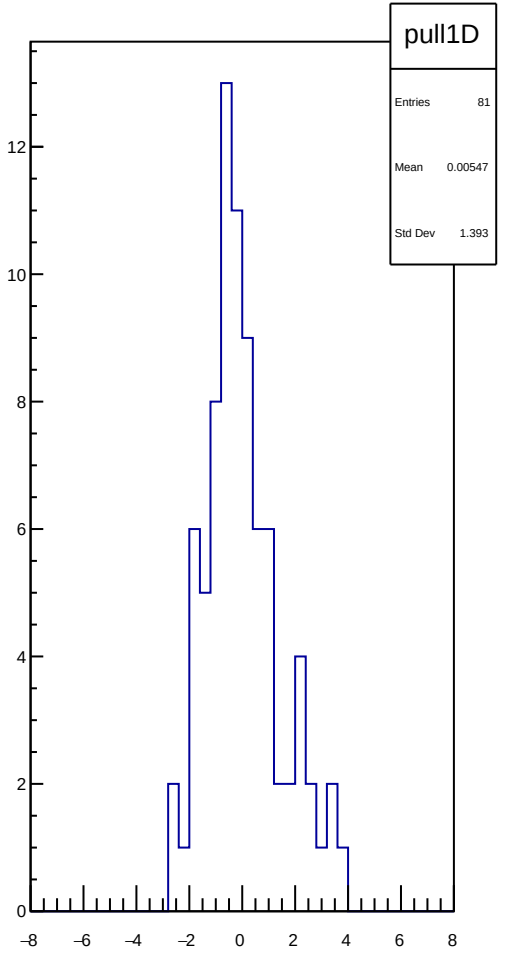

diff_bpm2i02Y_rms vs run
χ² / ndf 1765 / 80
p0 800.8 ± 0.6413
900
880
860
840
820
800
780
760

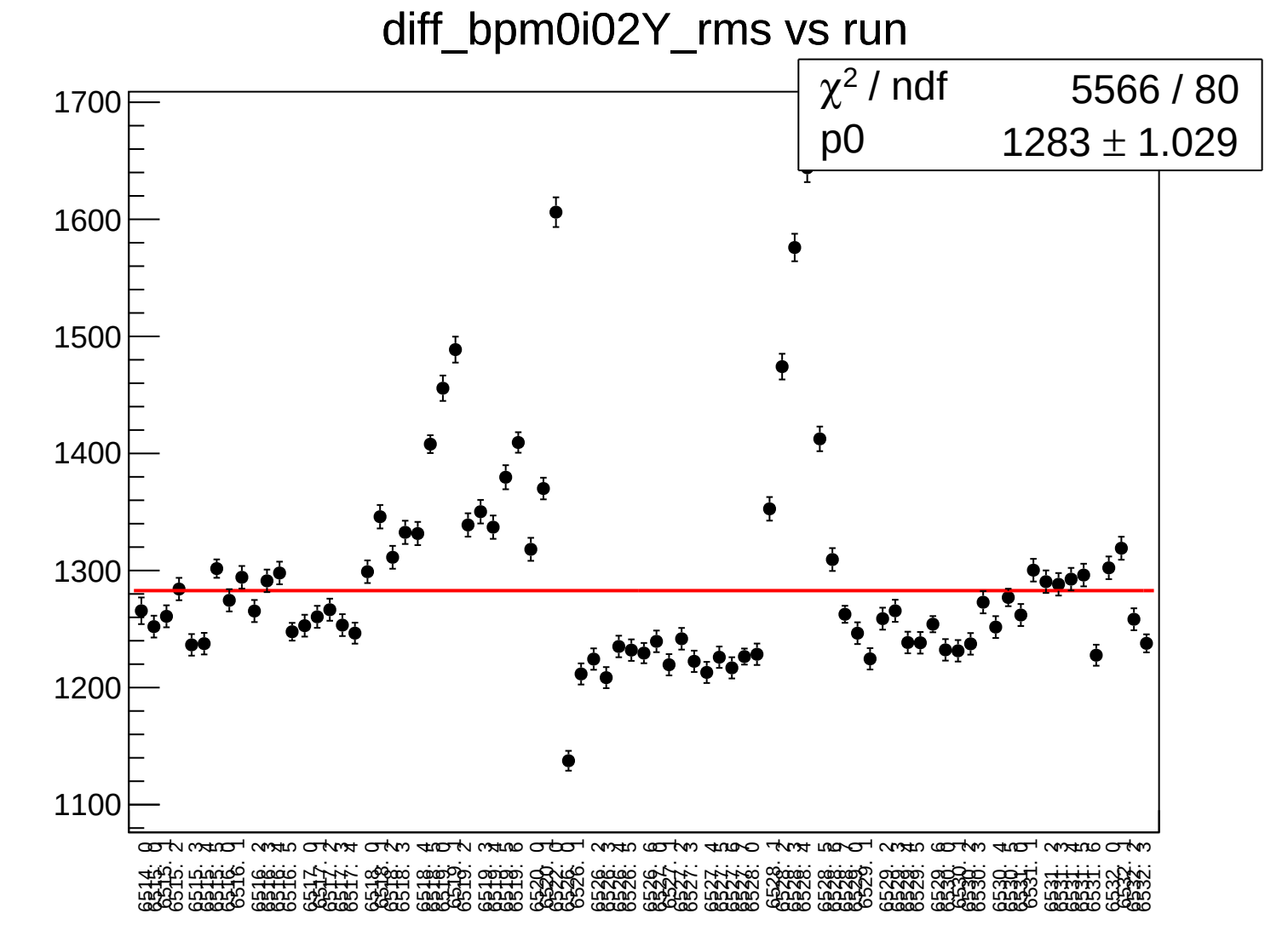

diff_bpm0i02X_mean vs run
χ² / ndf 90.11 / 80
p0 4.973 ± 1.755
pull
Entries 81
Mean 378.5
Std Dev 0

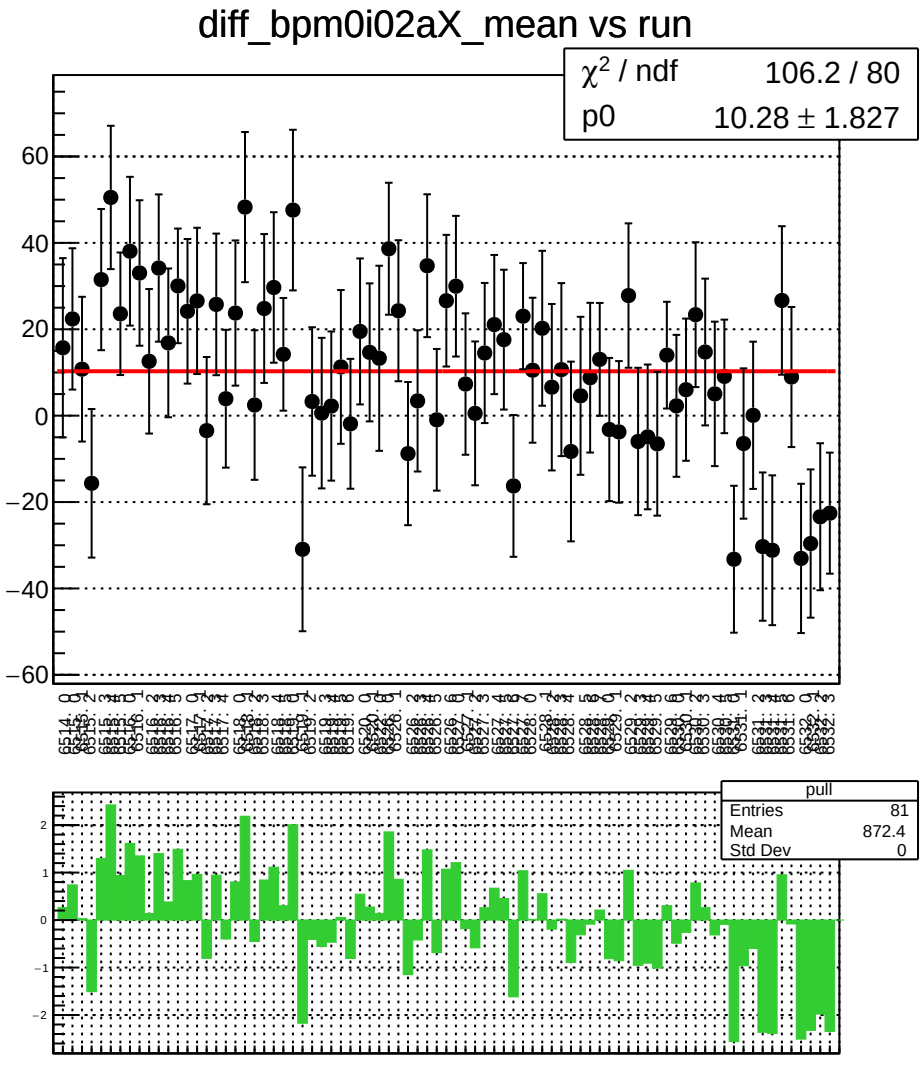

pull1D
Entries 81
Mean −0.02384
Std Dev 1.054

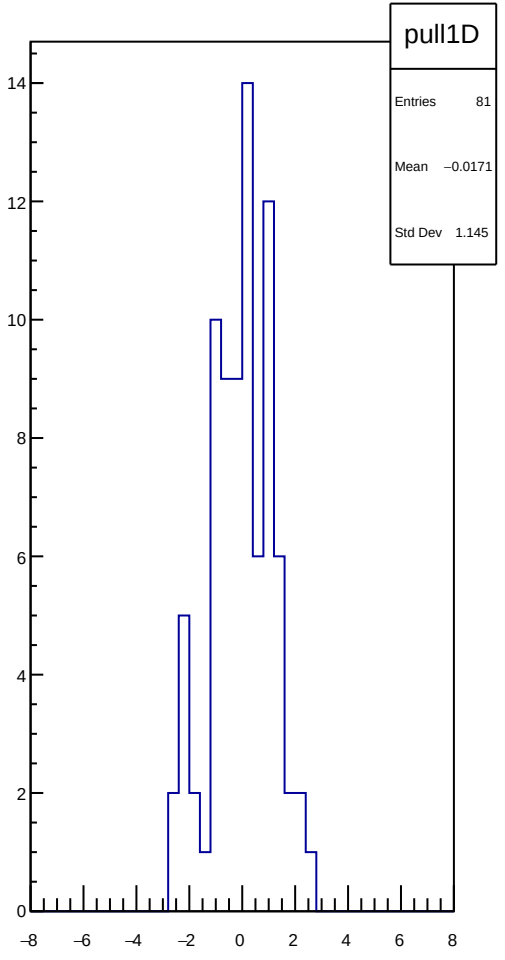

diff_bpm0i02X_rms vs run
χ² / ndf 2612 / 80
p0 1549 ± 1.241
1800
1750
1700
1650
1600
1550
1500
1450
1400
1350

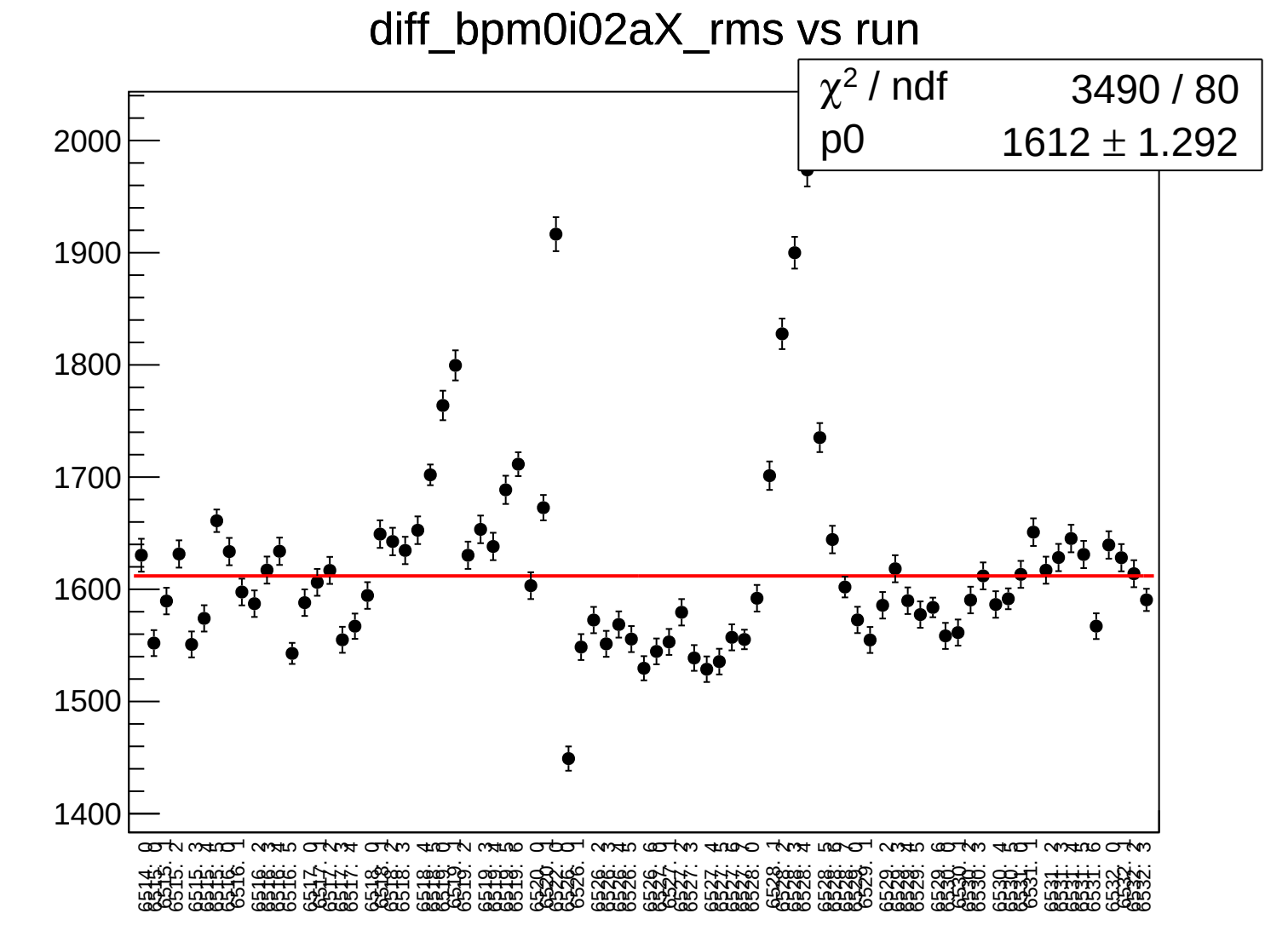

diff_bpm0i02Y_mean vs run
χ² / ndf 157.1 / 80
p0 32.75 ± 1.455
pull
Entries 81
Mean −2439
Std Dev 0

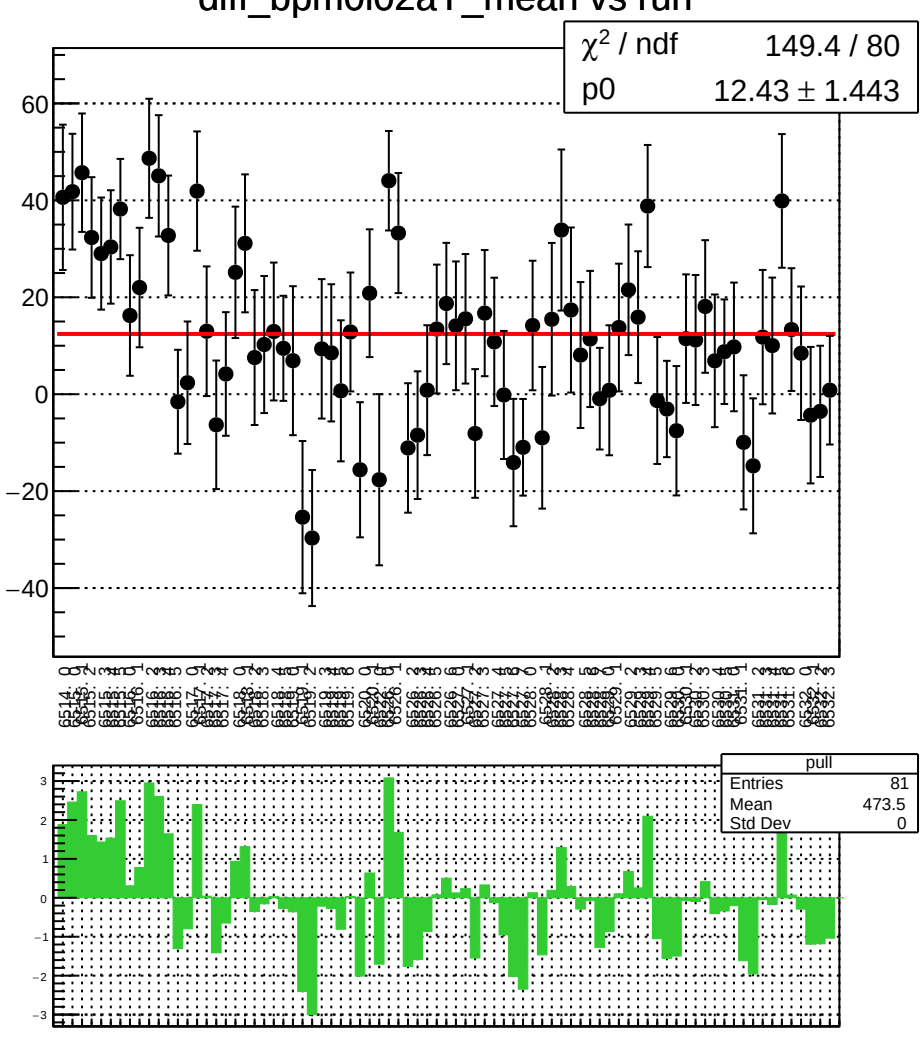

pull1D
Entries 81
Mean 0.00547
Std Dev 1.393

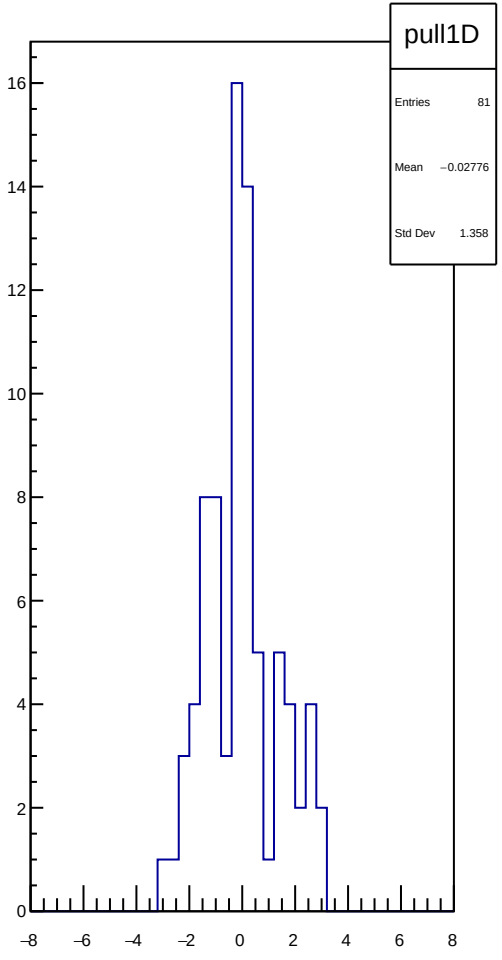

diff_bpm0i02Y_rms vs run
χ² / ndf 5566 / 80
p0 1283 ± 1.029
1700
1600
1500
1400
1300
1200
1100

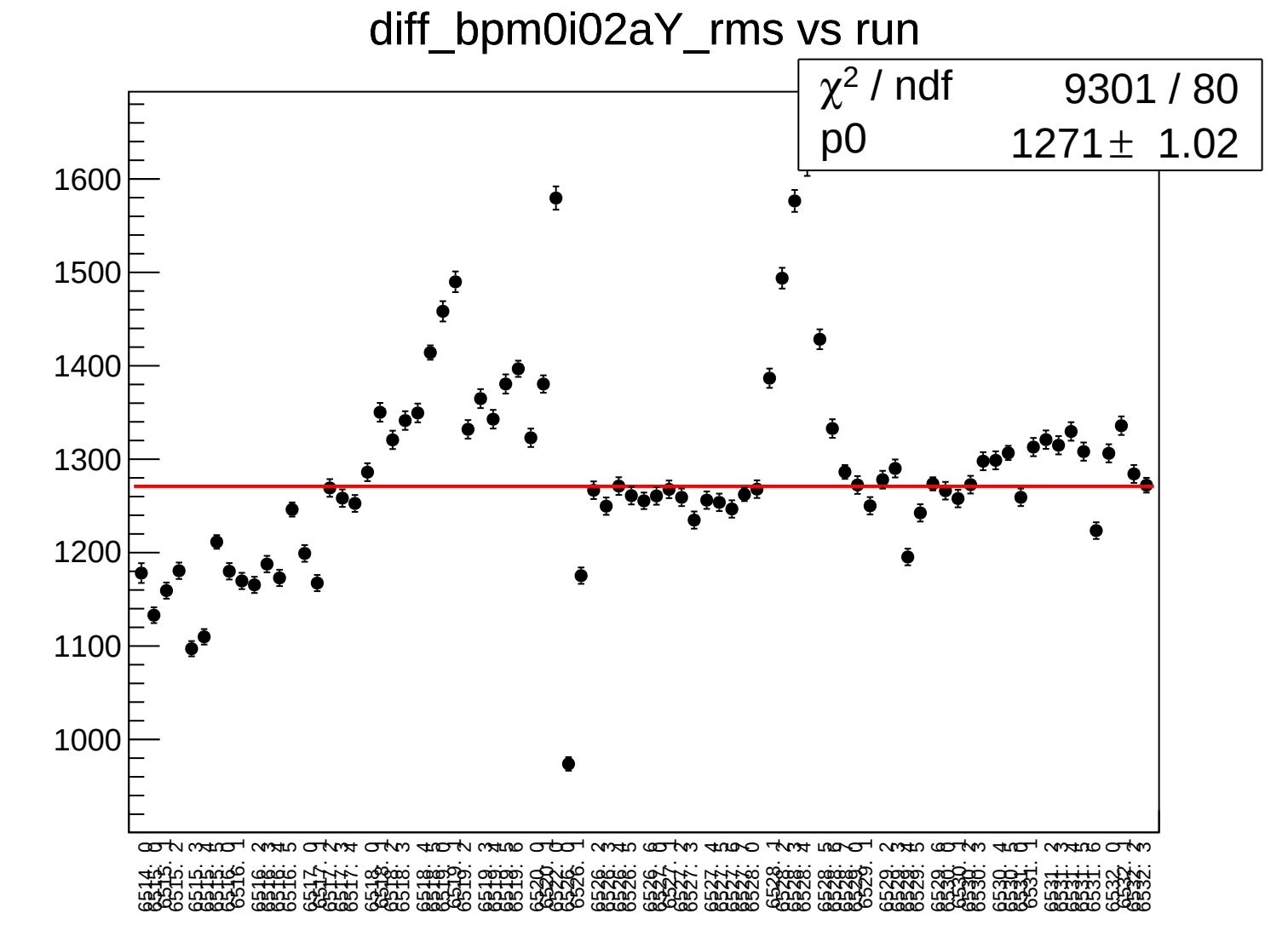

diff_bpm0i02aX_mean vs run
χ^2 / ndf 106.2 / 80
p0 10.28 ± 1.827
pull
Entries 81
Mean 872.4
Std Dev 0

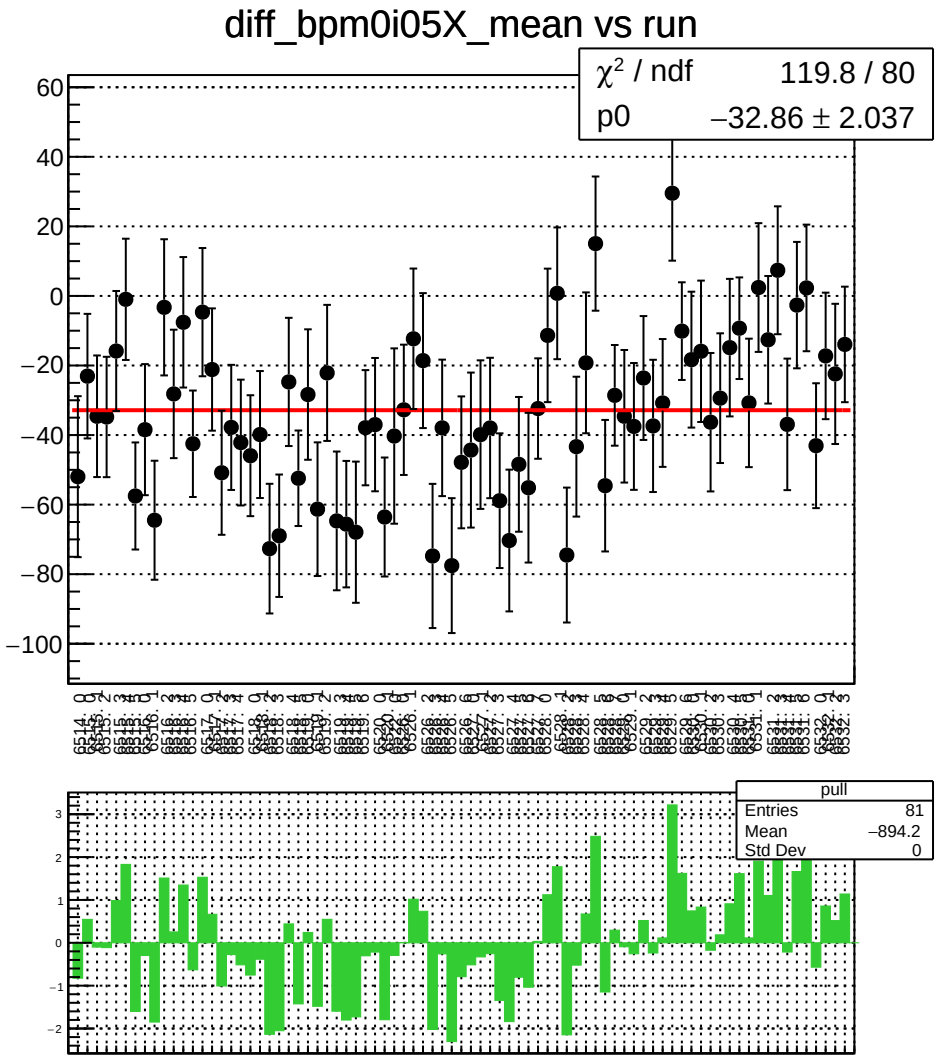

pull1D
Entries 81
Mean −0.0171
Std Dev 1.145

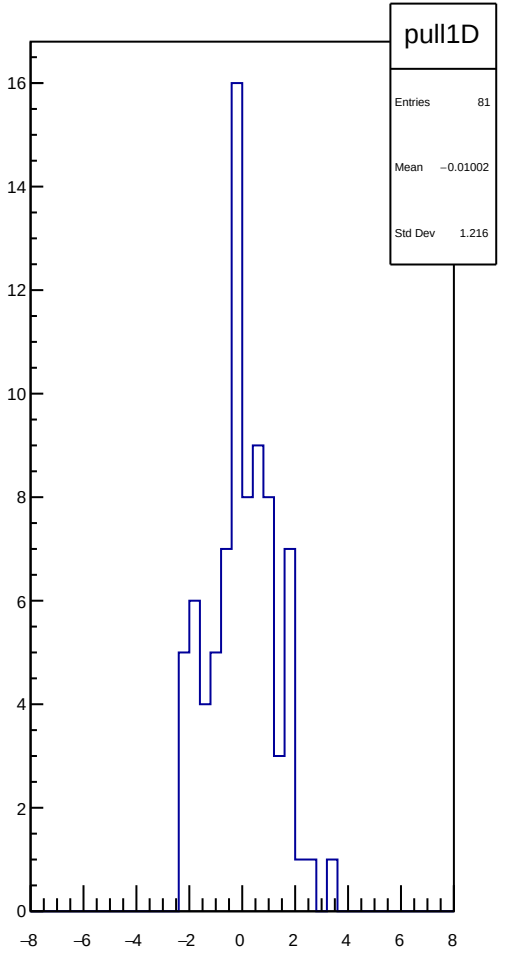

diff_bpm0i02aX_rms vs run
χ² / ndf 3490 / 80
p0 1612 ± 1.292
2000
1900
1800
1700
1600
1500
1400

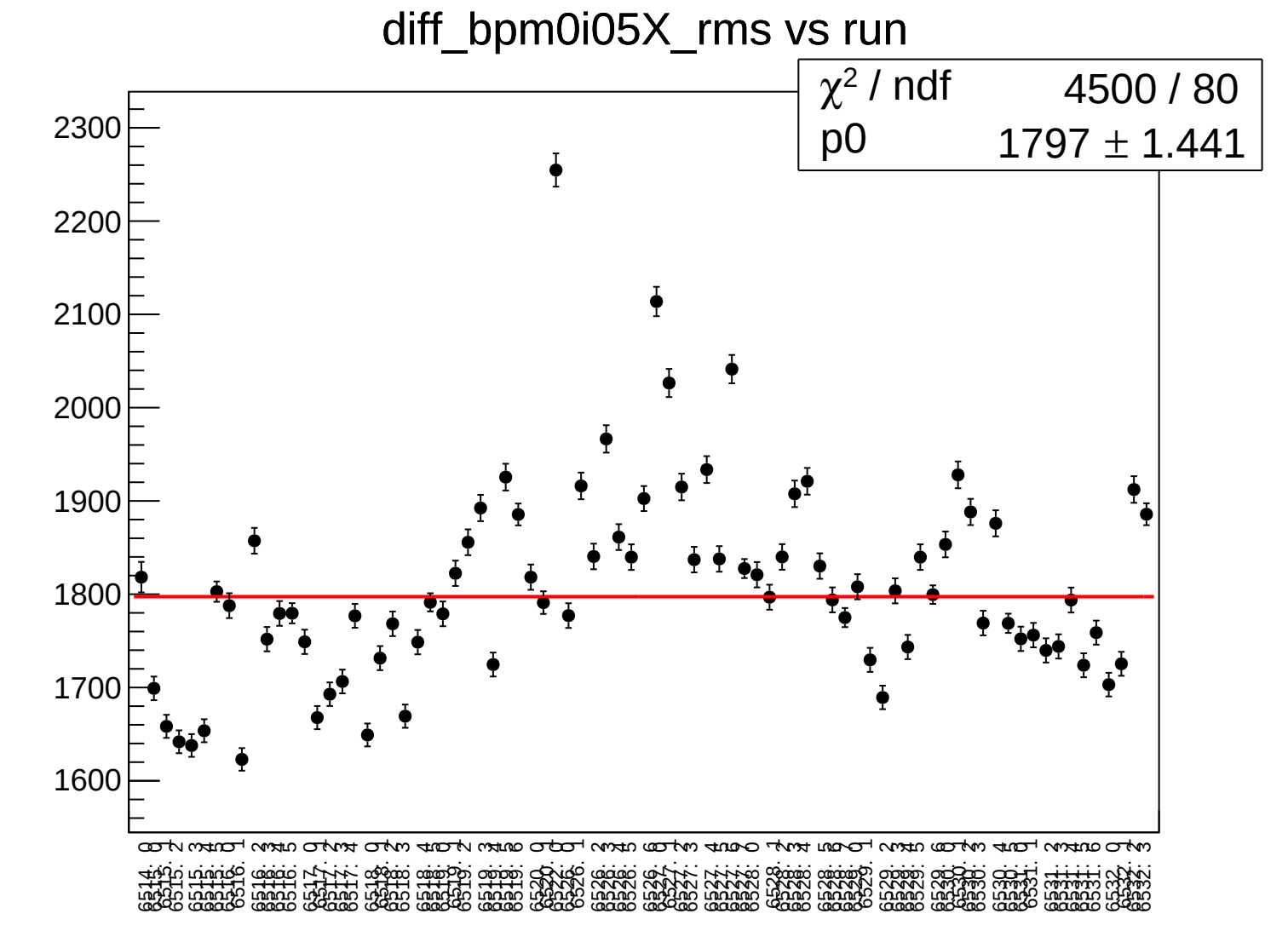

diff_bpm0i02aY_mean vs run
χ^2 / ndf 149.4 / 80
p0 12.43 ± 1.443
pull
Entries 81
Mean 473.5
Std Dev 0

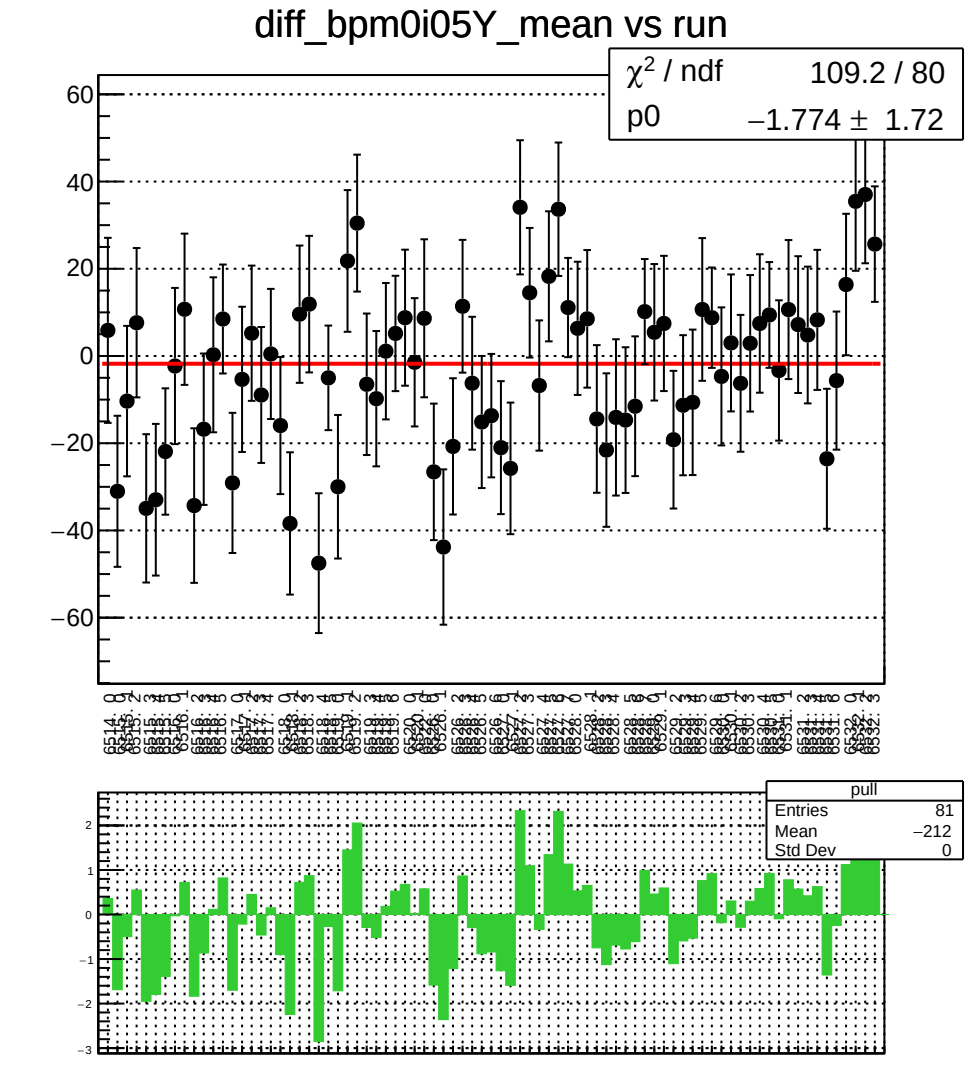

pull1D
Entries 81
Mean −0.02776
Std Dev 1.358

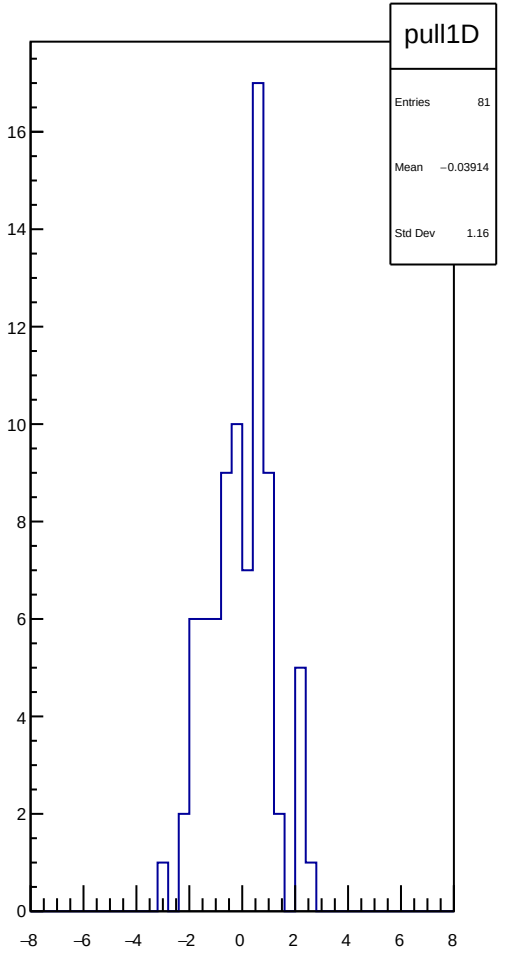

diff_bpm0i02aY_rms vs run
χ² / ndf 9301 / 80
p0 1271 ± 1.02
1600
1500
1400
1300
1200
1100
1000

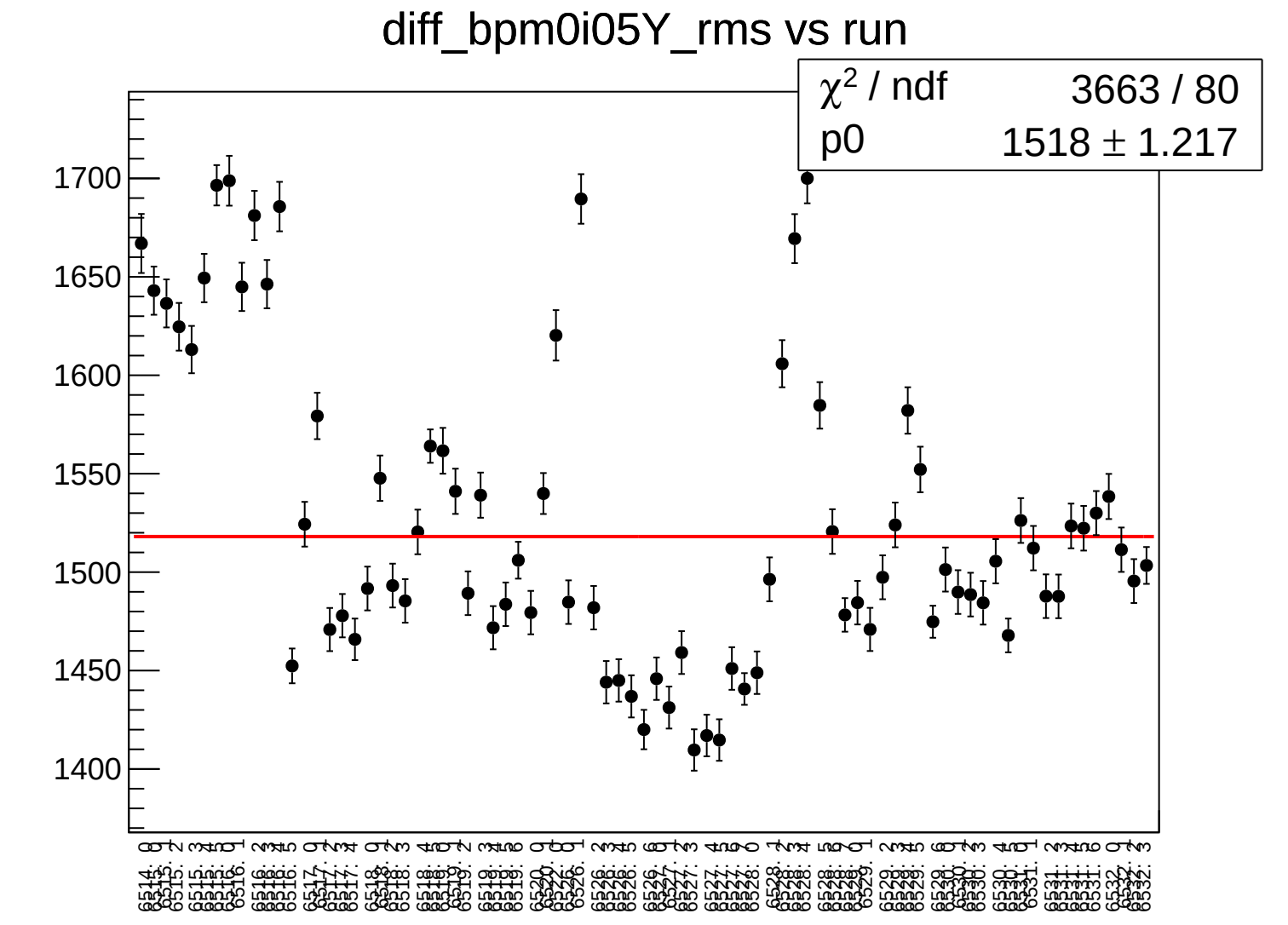

diff_bpm0i05X_mean vs run
χ² / ndf 119.8 / 80
p0 −32.86 ± 2.037
pull
Entries 81
Mean −894.2
Std Dev 0

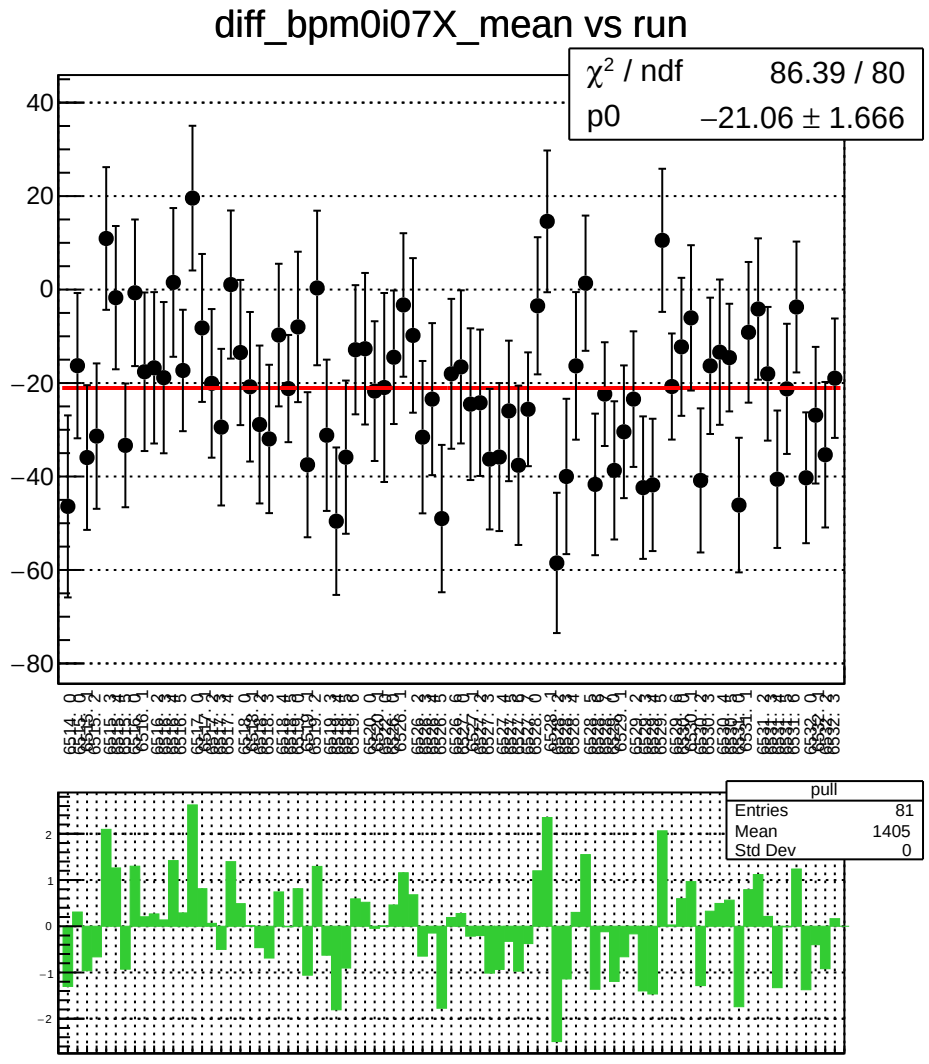

pull1D
Entries 81
Mean −0.01002
Std Dev 1.216

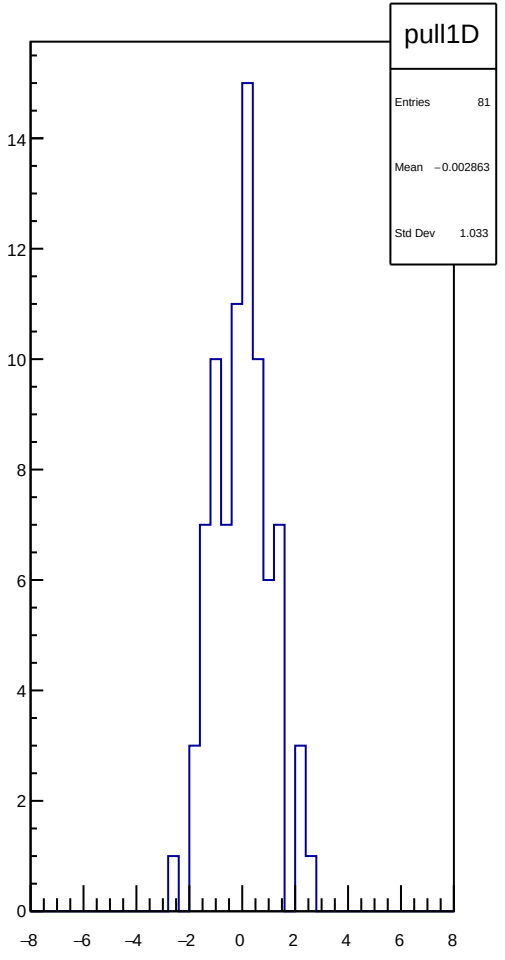

diff_bpm0i05X_rms vs run
χ² / ndf 4500 / 80
p0 1797 ± 1.441
2300
2200
2100
2000
1900
1800
1700
1600

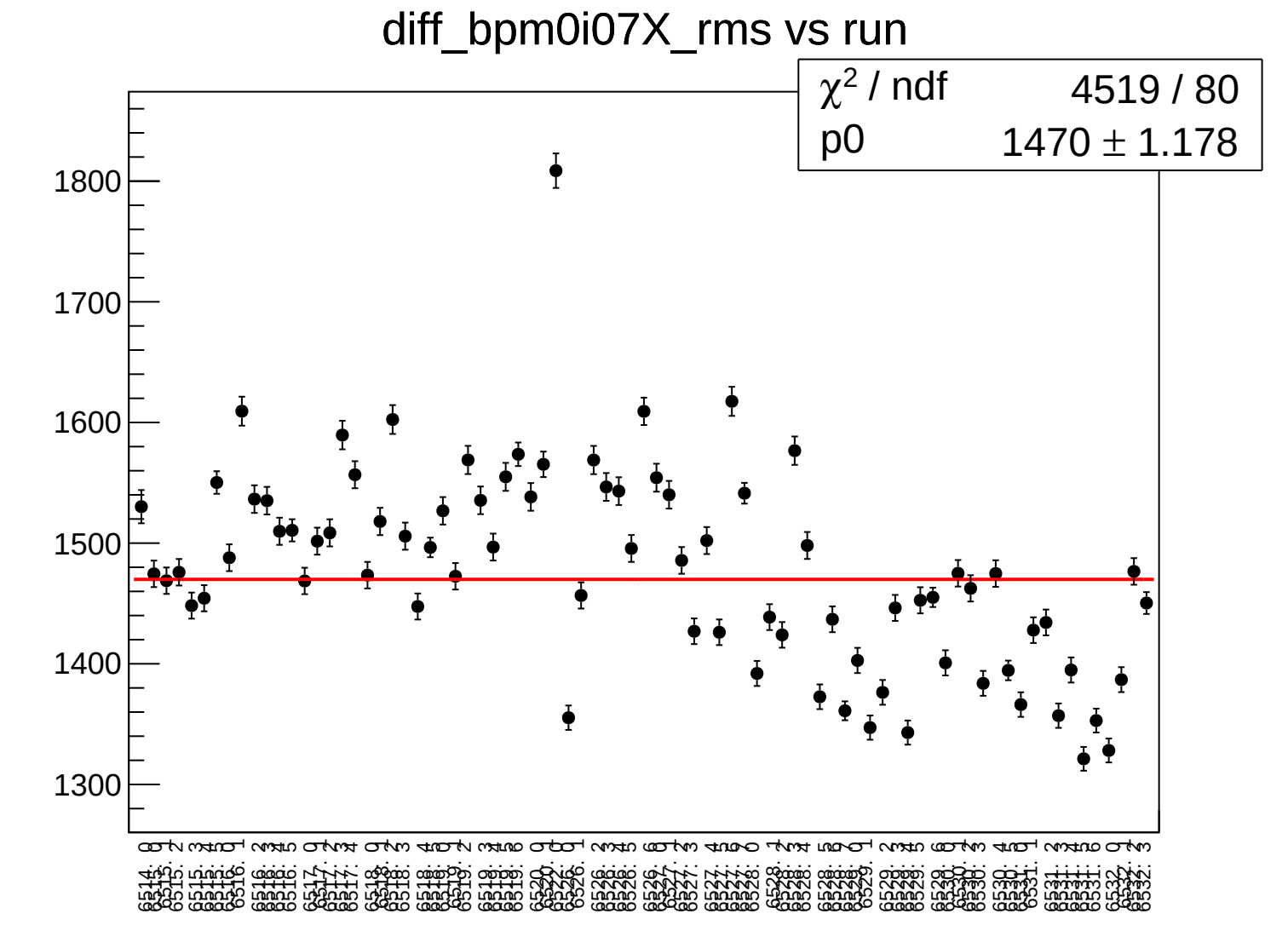

diff_bpm0i05Y_mean vs run
χ² / ndf 109.2 / 80
p0 −1.774 ± 1.72
pull
Entries 81
Mean −212
Std Dev 0

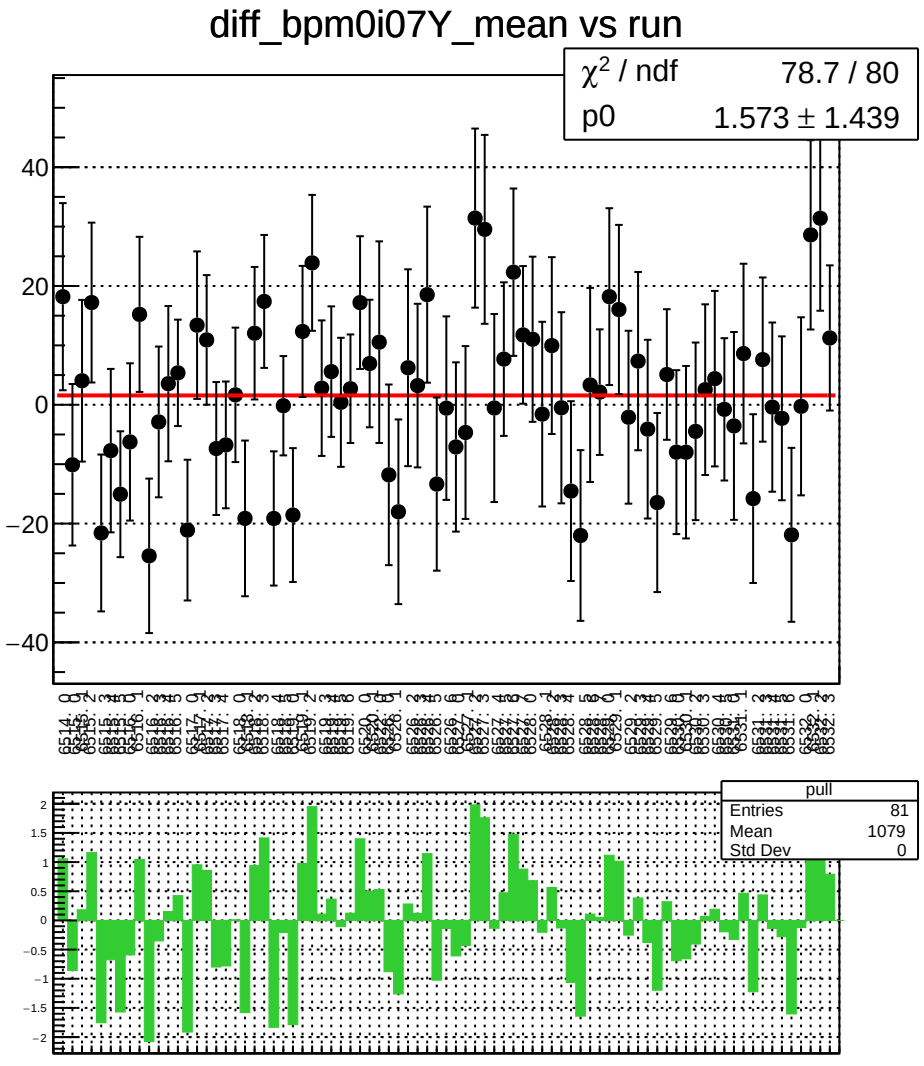

pull1D
Entries 81
Mean −0.03914
Std Dev 1.16

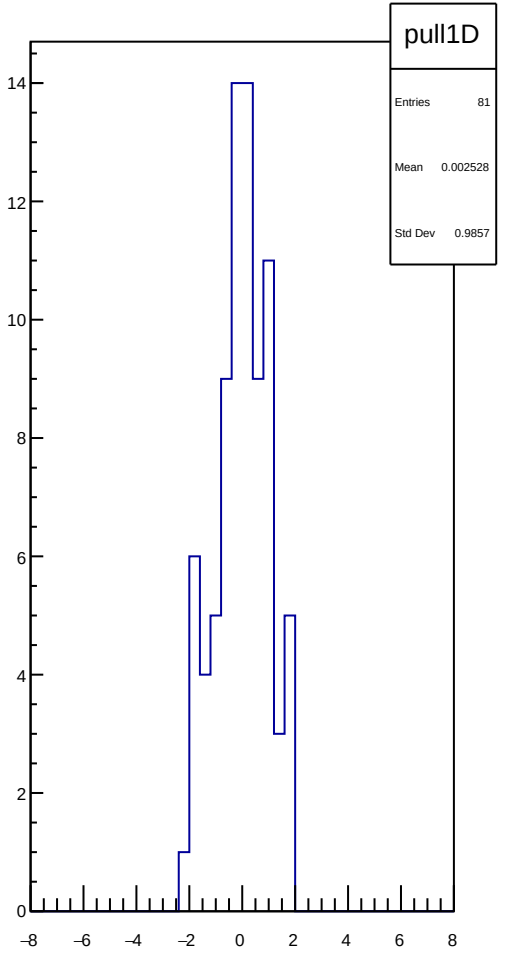

diff_bpm0i05Y_rms vs run
χ² / ndf 3663 / 80
p0 1518 ± 1.217
1700
1650
1600
1550
1500
1450
1400

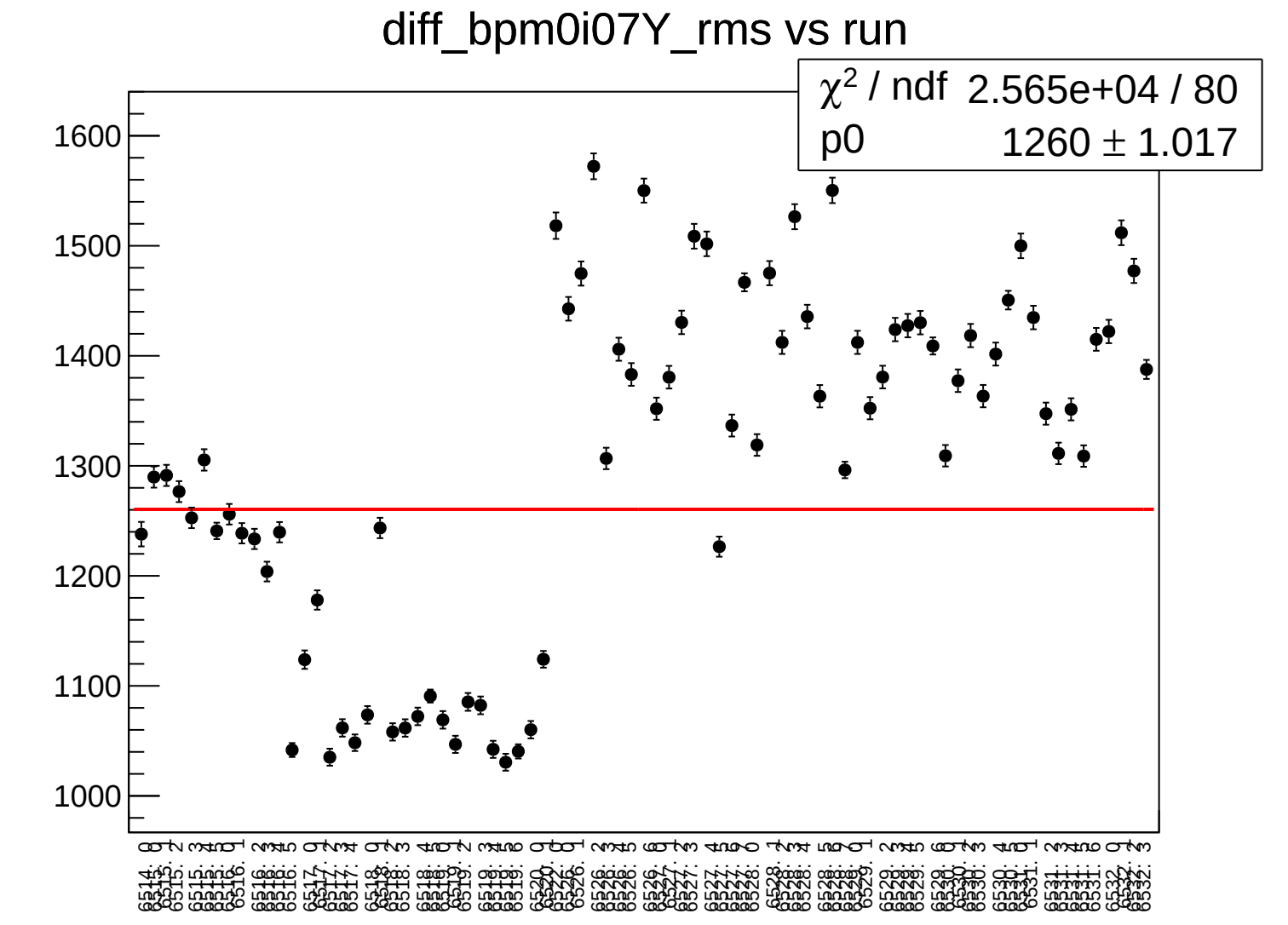

diff_bpm0i07X_mean vs run
χ² / ndf 86.39 / 80
p0 −21.06 ± 1.666
pull
Entries 81
Mean 1405
Std Dev 0

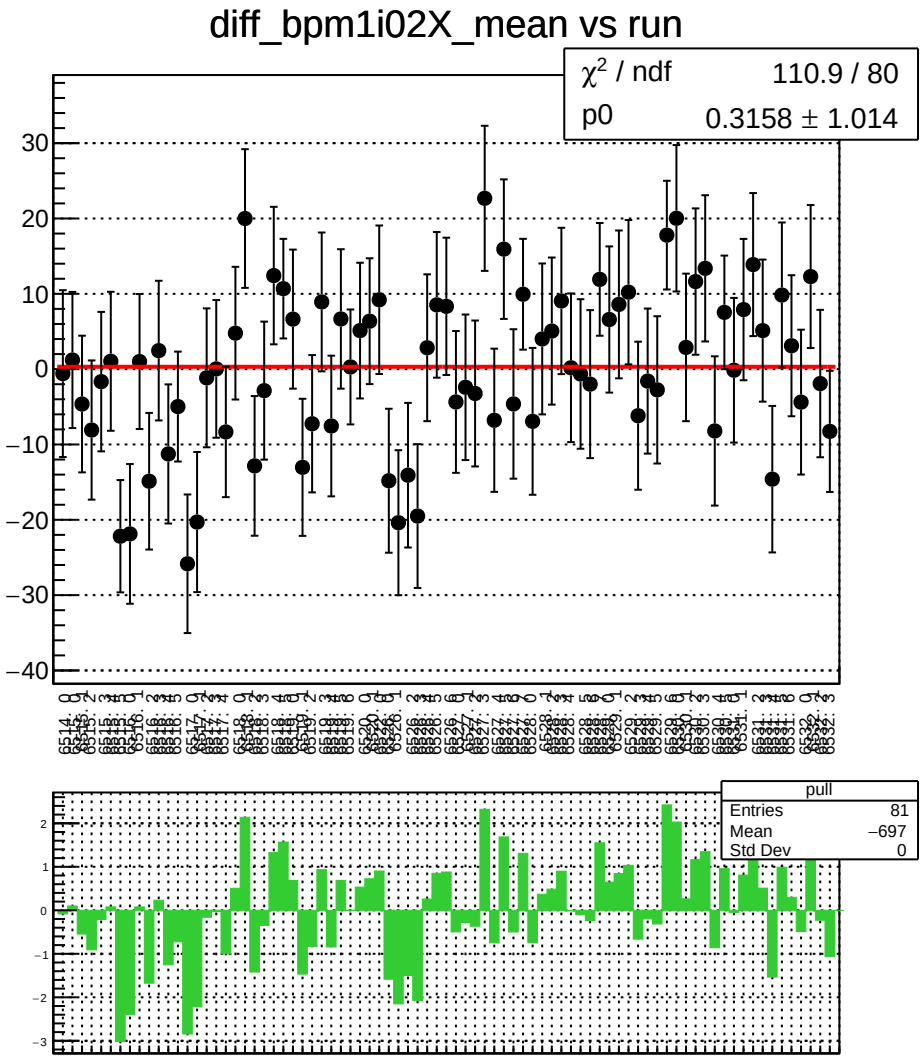

pull1D
Entries 81
Mean −0.002863
Std Dev 1.033

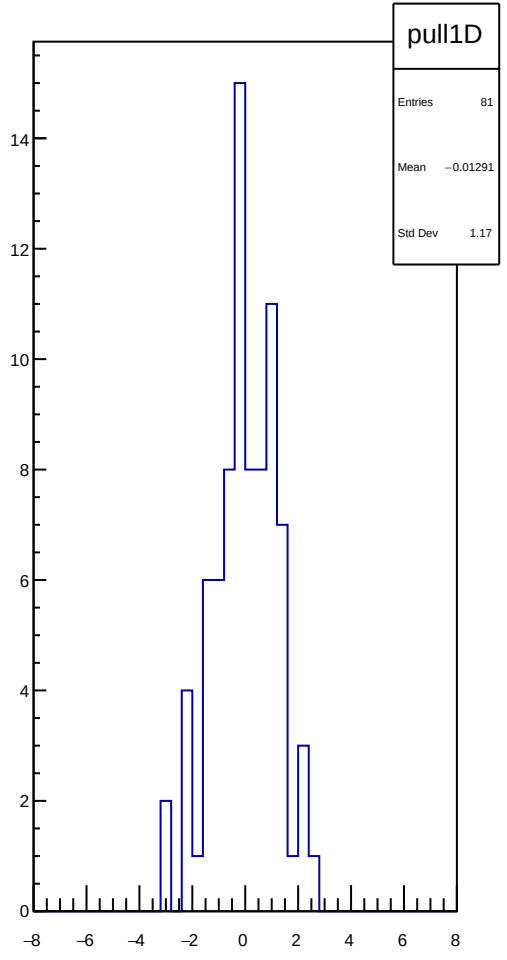

diff_bpm0i07X_rms vs run
χ² / ndf 4519 / 80
p0 1470 ± 1.178
1800
1700
1600
1500
1400
1300

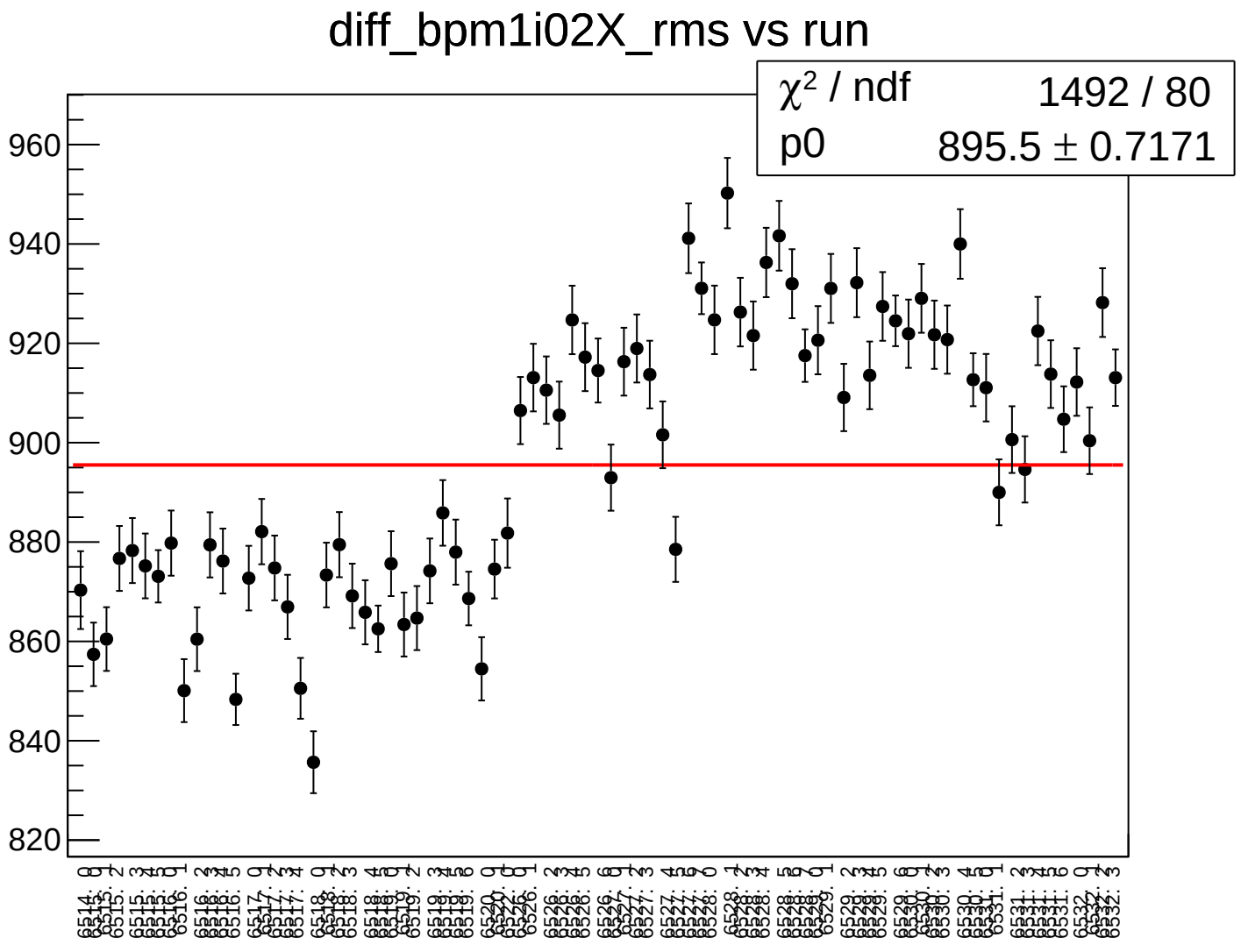

diff_bpm0i07Y_mean vs run
χ² / ndf 78.7 / 80
p0 1.573 ± 1.439
pull
Entries 81
Mean 1079
Std Dev 0

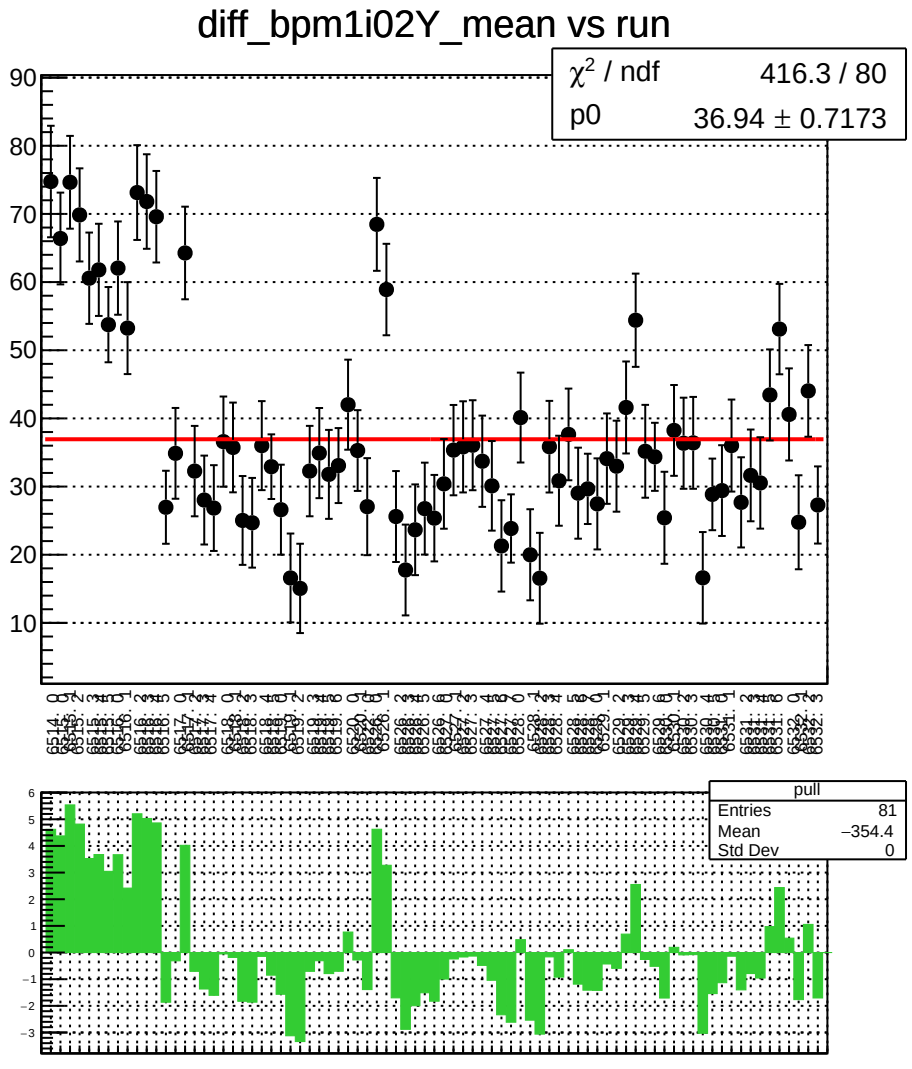

pull1D
Entries 81
Mean 0.002528
Std Dev 0.9857

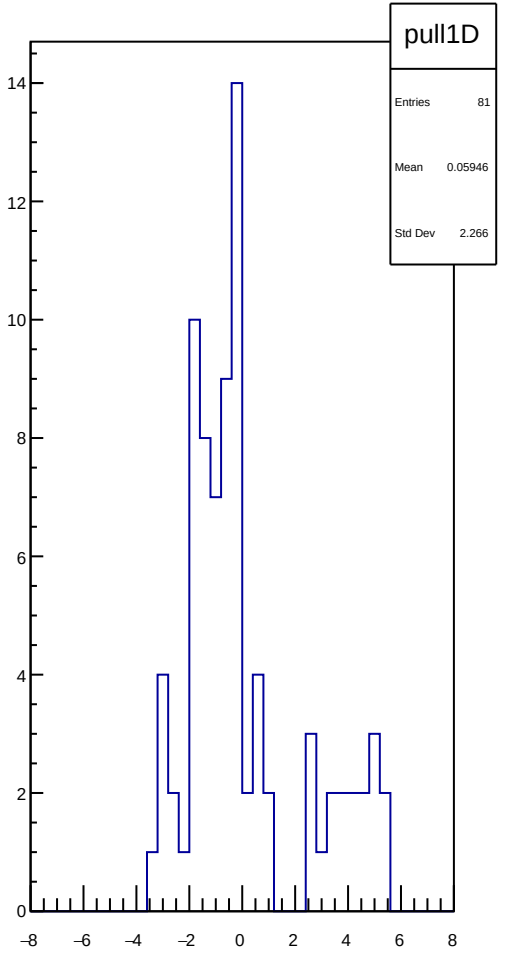

diff_bpm0i07Y_rms vs run
χ² / ndf 2.565e+04 / 80
p0 1260 ± 1.017
1600
1500
1400
1300
1200
1100
1000

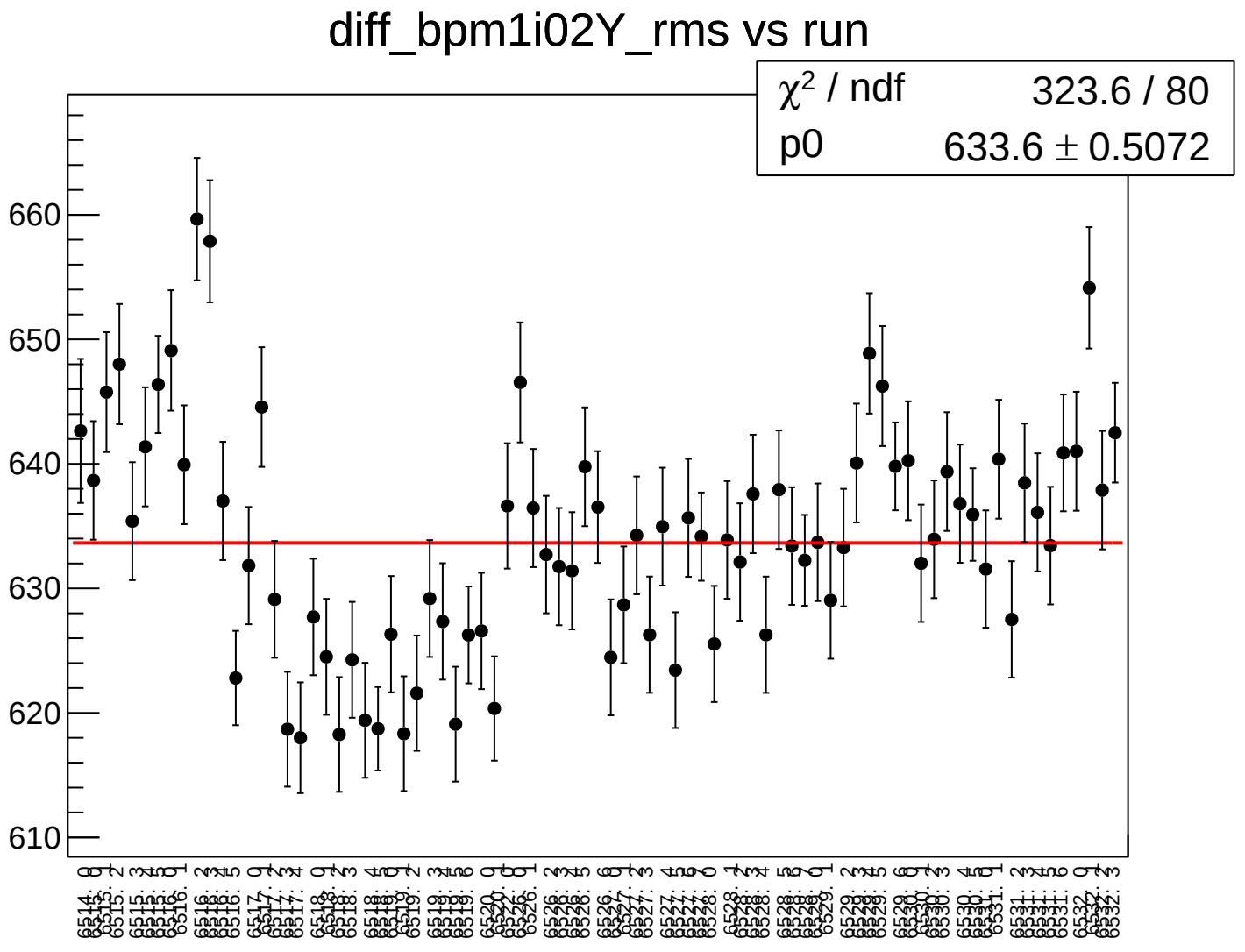

diff_bpm1i02X_mean vs run
χ² / ndf 110.9 / 80
p0 0.3158 ± 1.014
pull
Entries 81
Mean −697
Std Dev 0

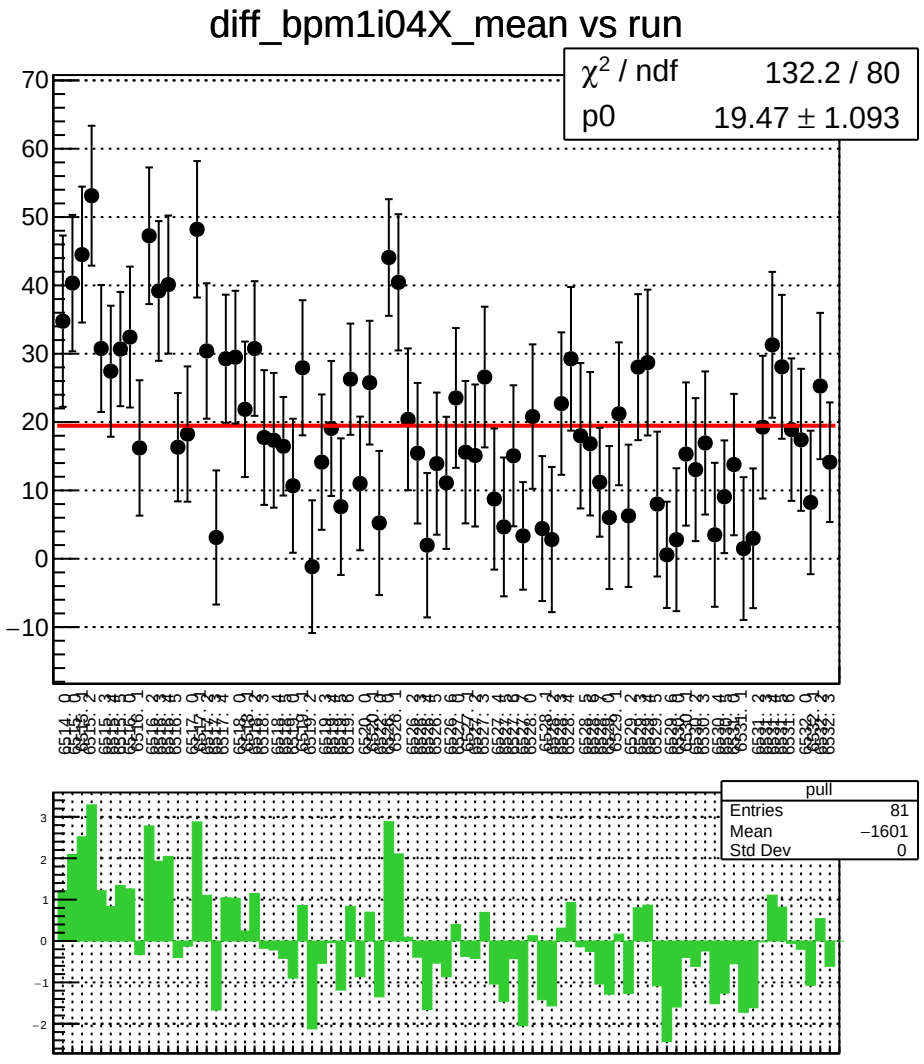

pull1D
Entries 81
Mean −0.01291
Std Dev 1.17

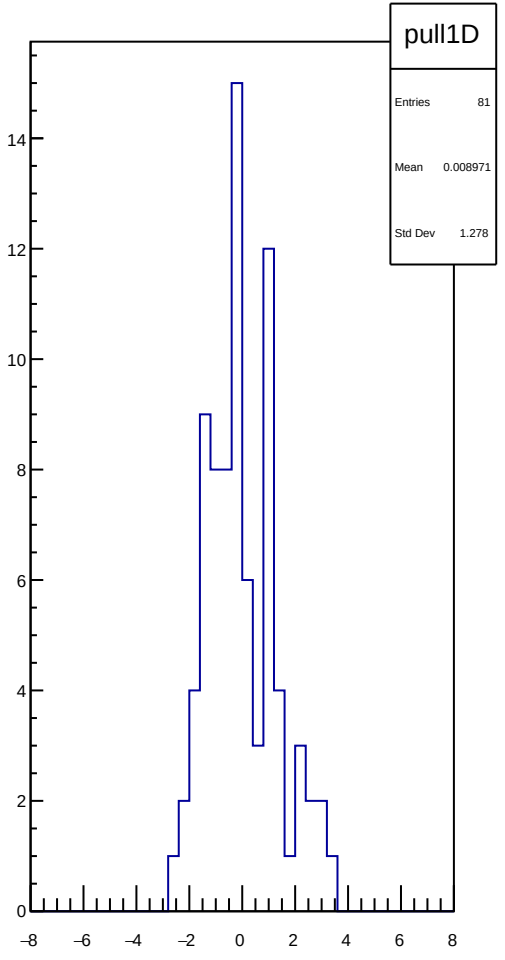

diff_bpm1i02X_rms vs run
χ² / ndf 1492 / 80
p0 895.5 ± 0.7171
960
940
920
900
880
860
840
820

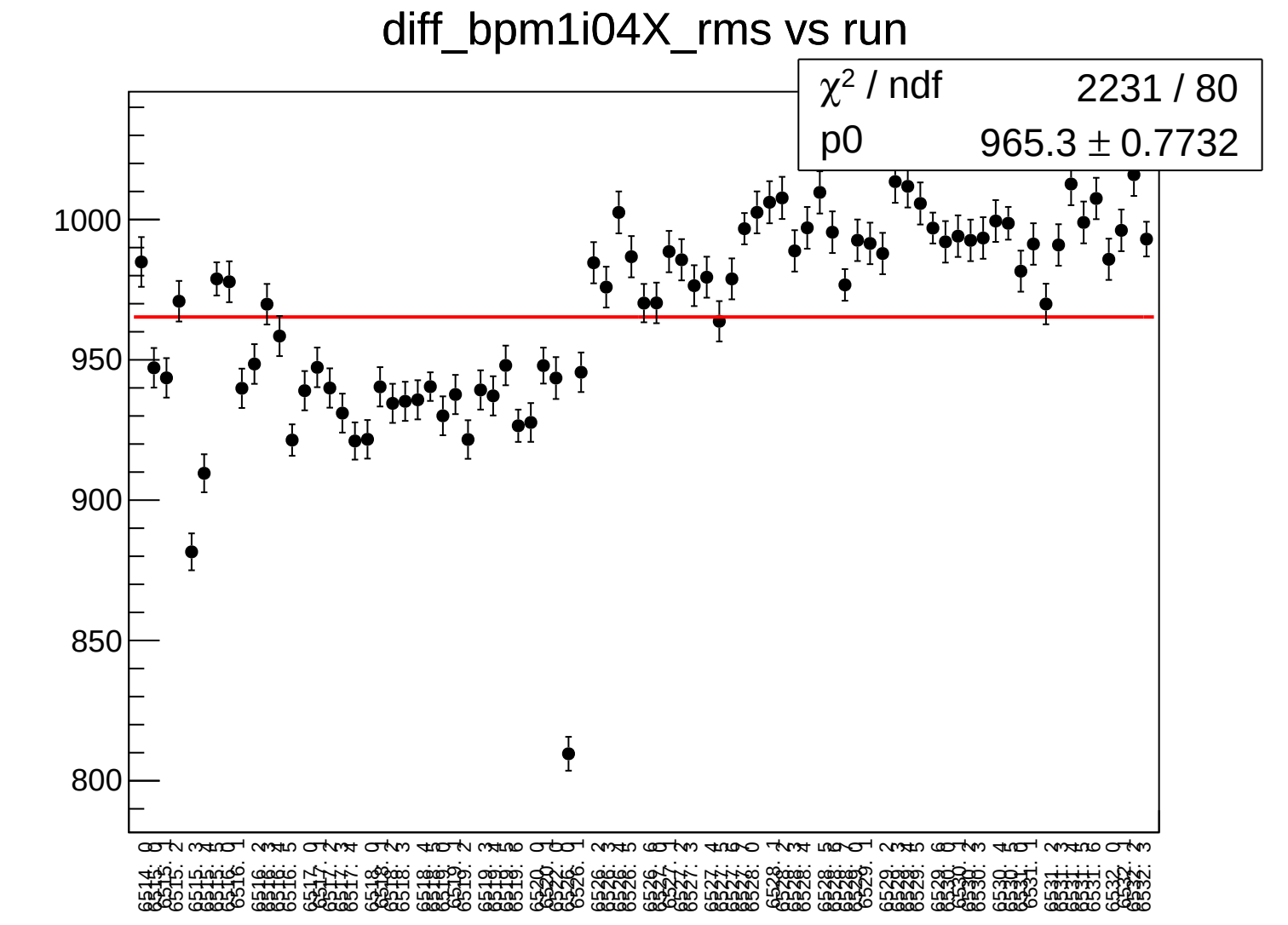

diff_bpm1i02Y_mean vs run
χ² / ndf 416.3 / 80
p0 36.94 ± 0.7173
pull
Entries 81
Mean −354.4
Std Dev 0

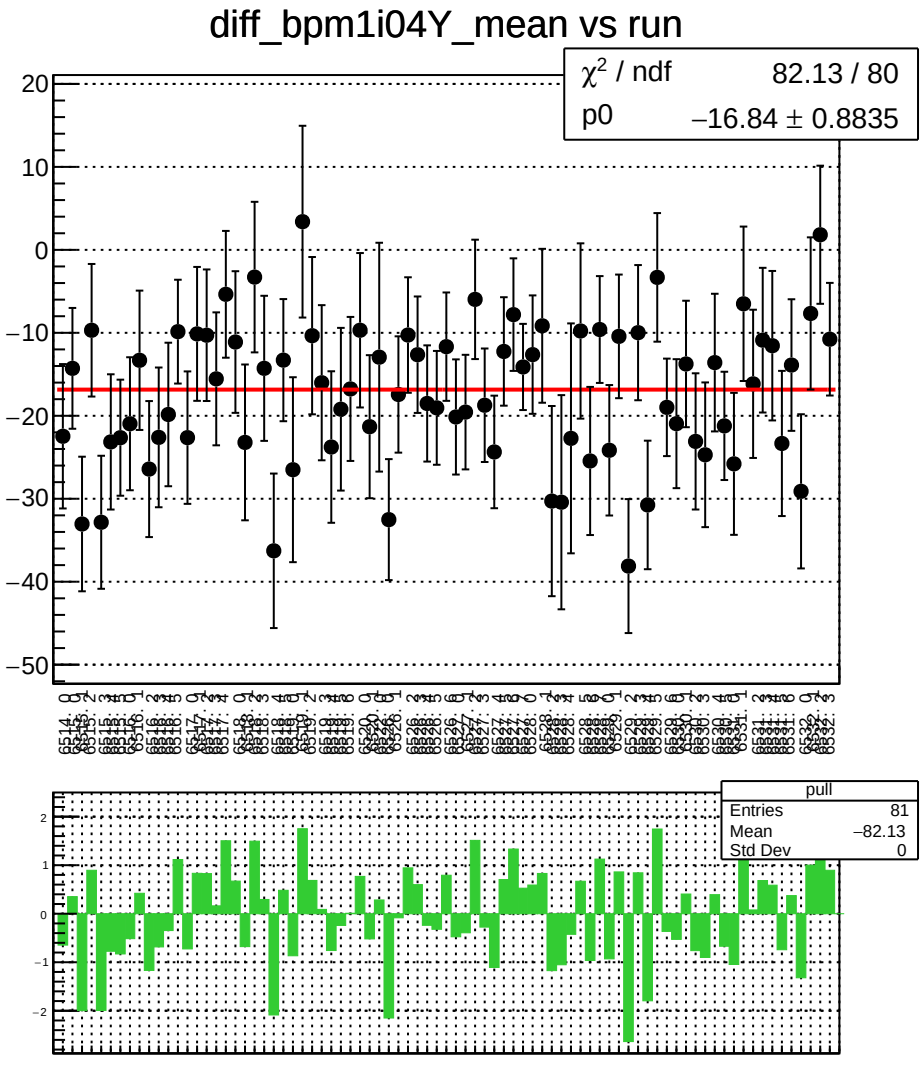

pull1D
Entries 81
Mean 0.05946
Std Dev 2.266

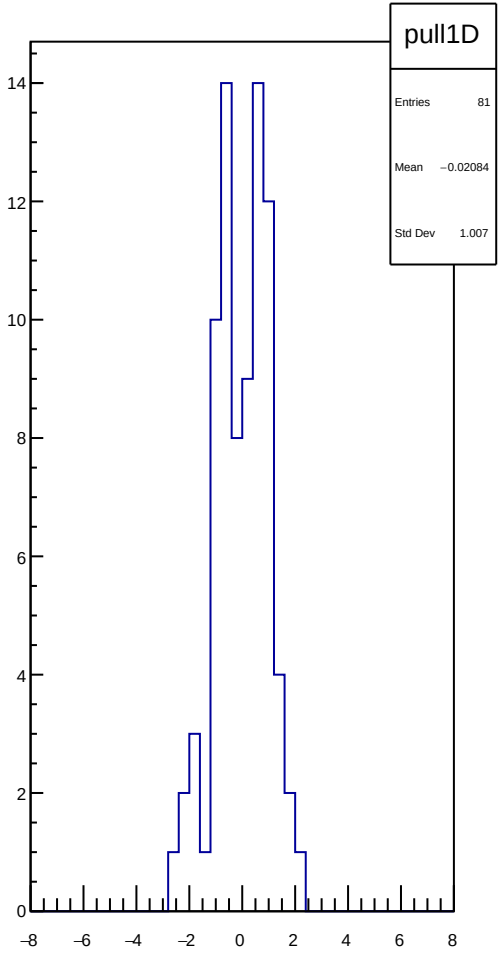

diff_bpm1i02Y_rms vs run
χ² / ndf 323.6 / 80
p0 633.6 ± 0.5072
660
650
640
630
620
610

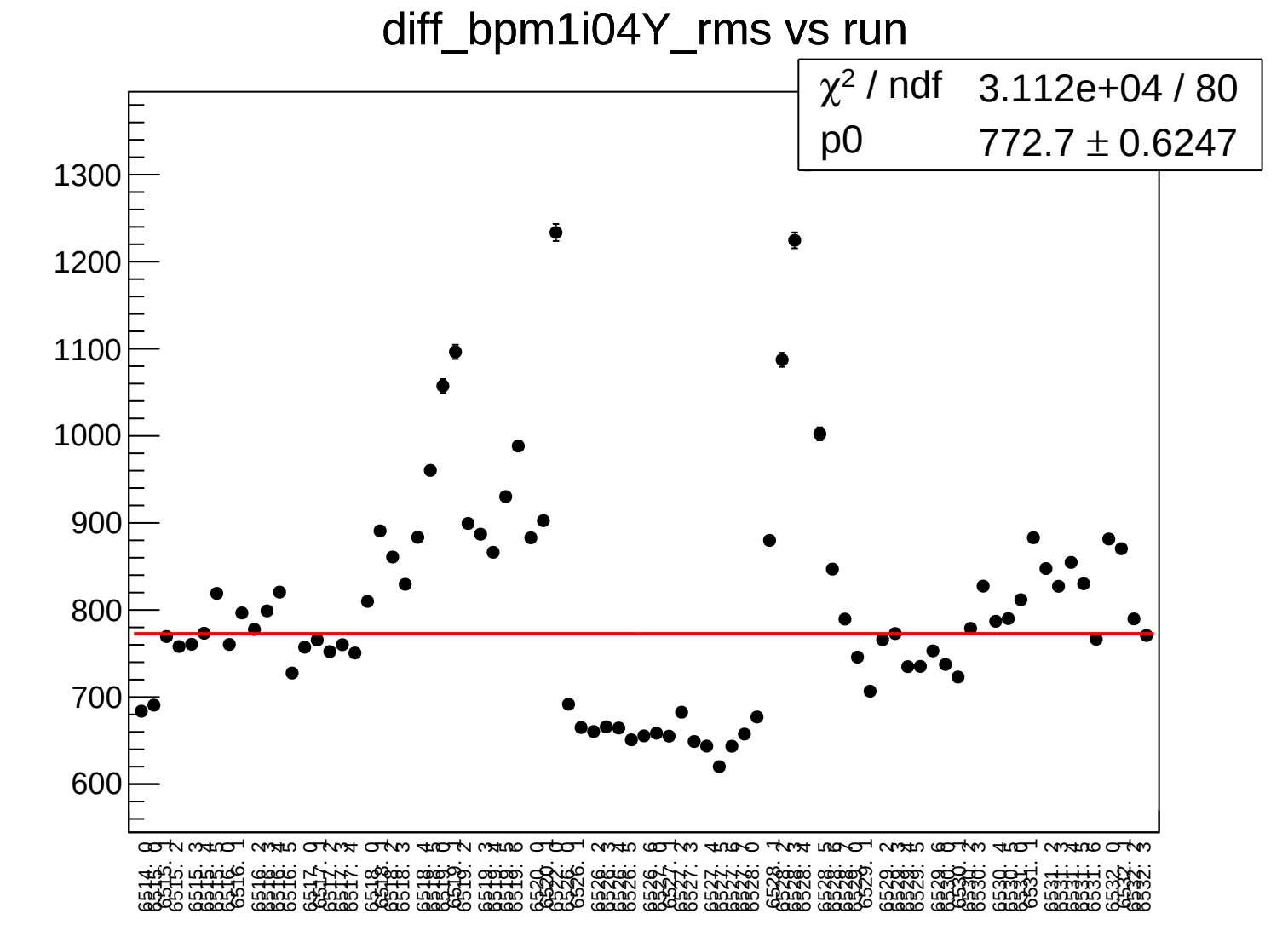

diff_bpm1i04X_mean vs run
χ² / ndf 132.2 / 80
p0 19.47 ± 1.093
pull
Entries 81
Mean −1601
Std Dev 0

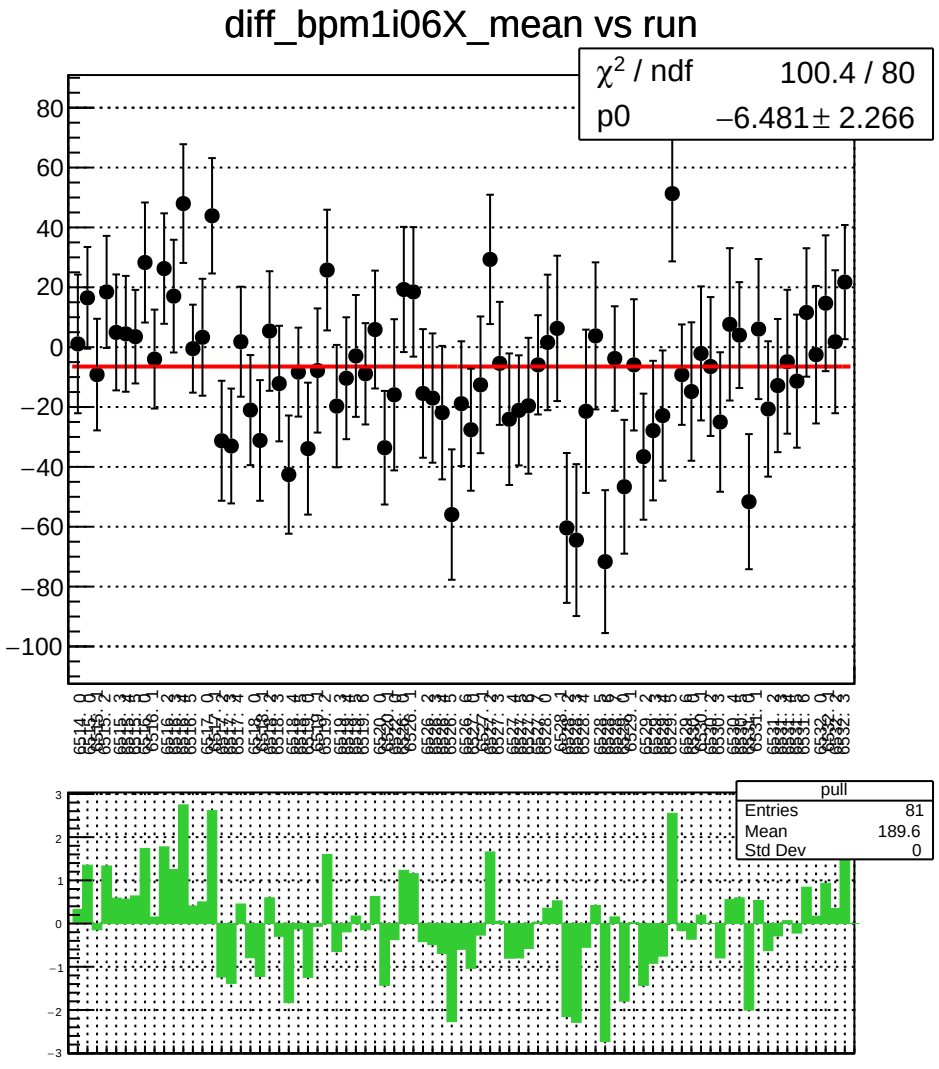

pull1D
Entries 81
Mean 0.008971
Std Dev 1.278

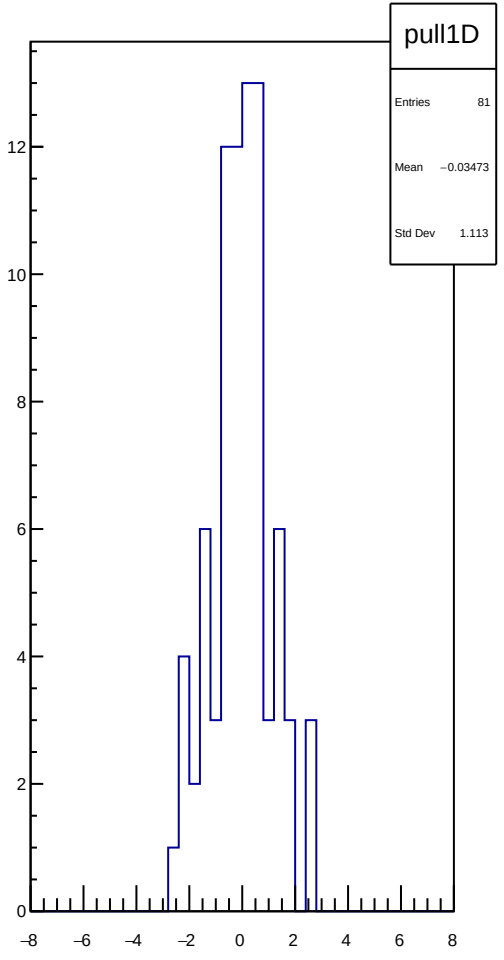

diff_bpm1i04X_rms vs run
χ² / ndf 2231 / 80
p0 965.3 ± 0.7732
1000
950
900
850
800

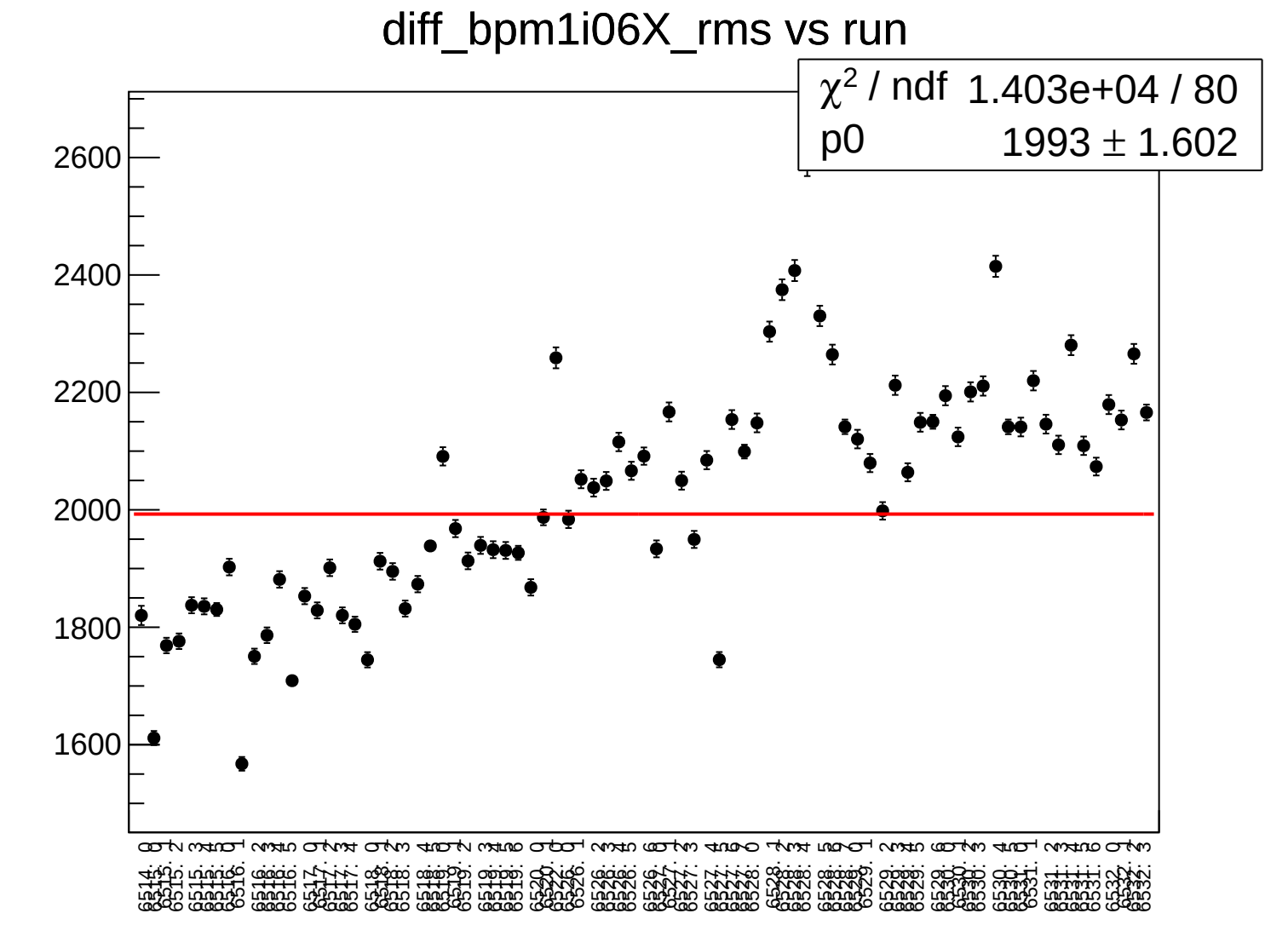

diff_bpm1i04Y_mean vs run
χ² / ndf 82.13 / 80
p0 −16.84 ± 0.8835
pull
Entries 81
Mean −82.13
Std Dev 0

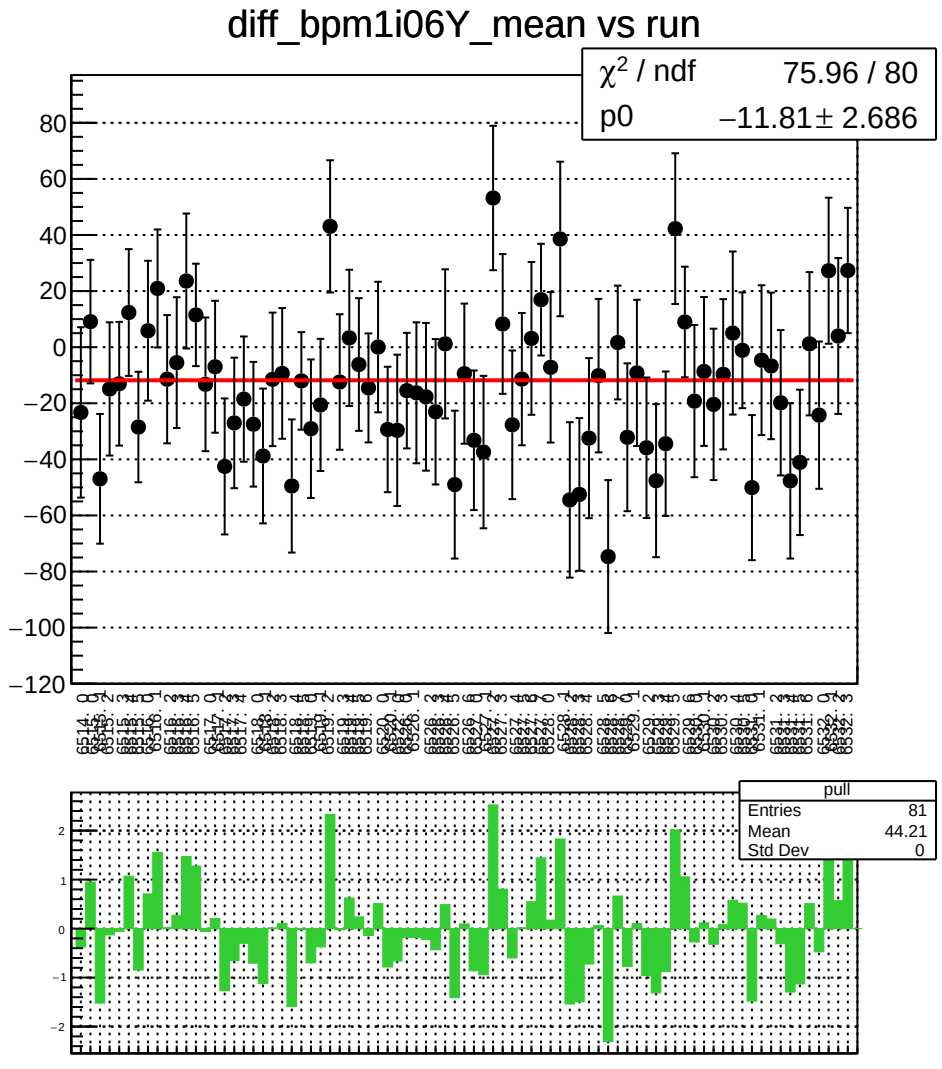

pull1D
Entries 81
Mean −0.02084
Std Dev 1.007

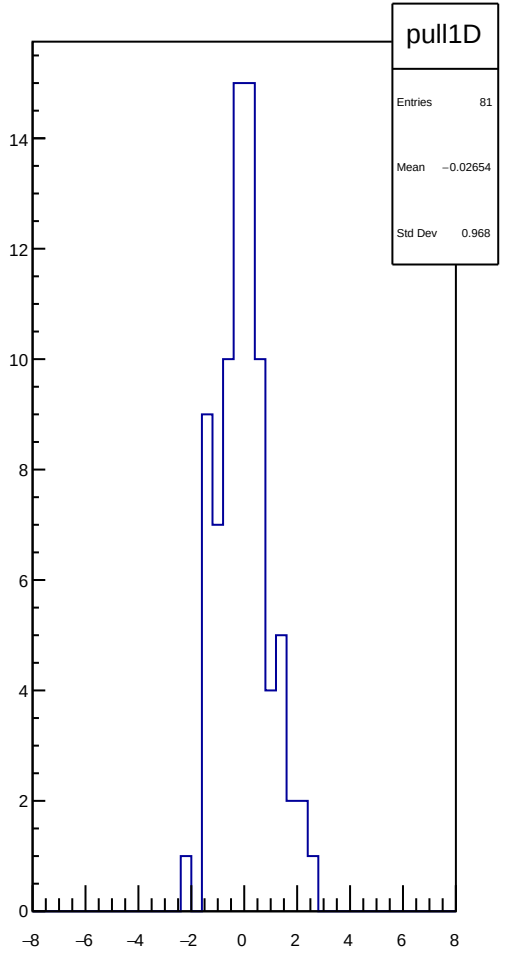

diff_bpm1i04Y_rms vs run
χ² / ndf 3.112e+04 / 80
p0 772.7 ± 0.6247
1300
1200
1100
1000
900
800
700
600

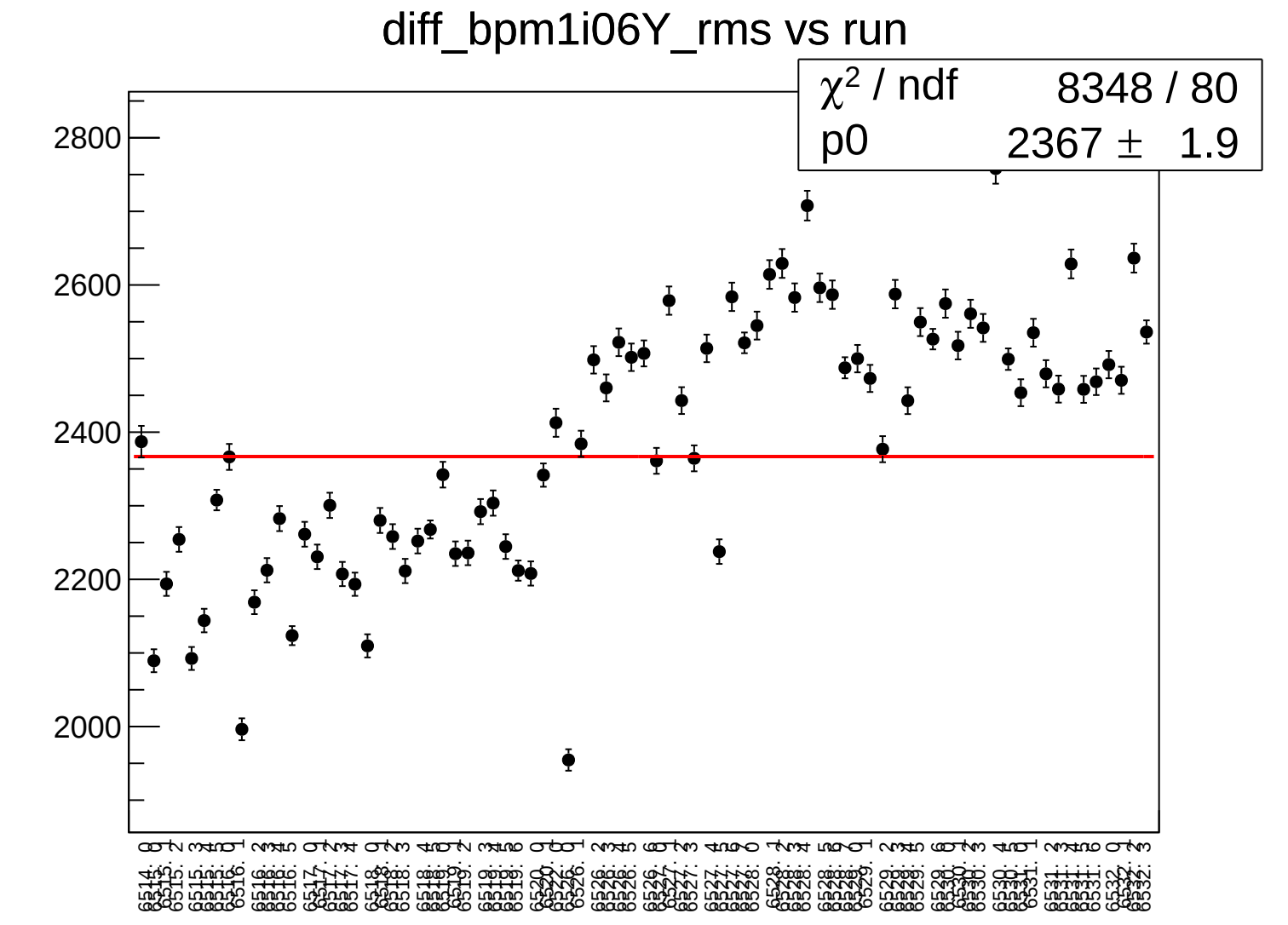

diff_bpm1i06X_mean vs run
χ² / ndf 100.4 / 80
p0 −6.481 ± 2.266
pull
Entries 81
Mean 189.6
Std Dev 0

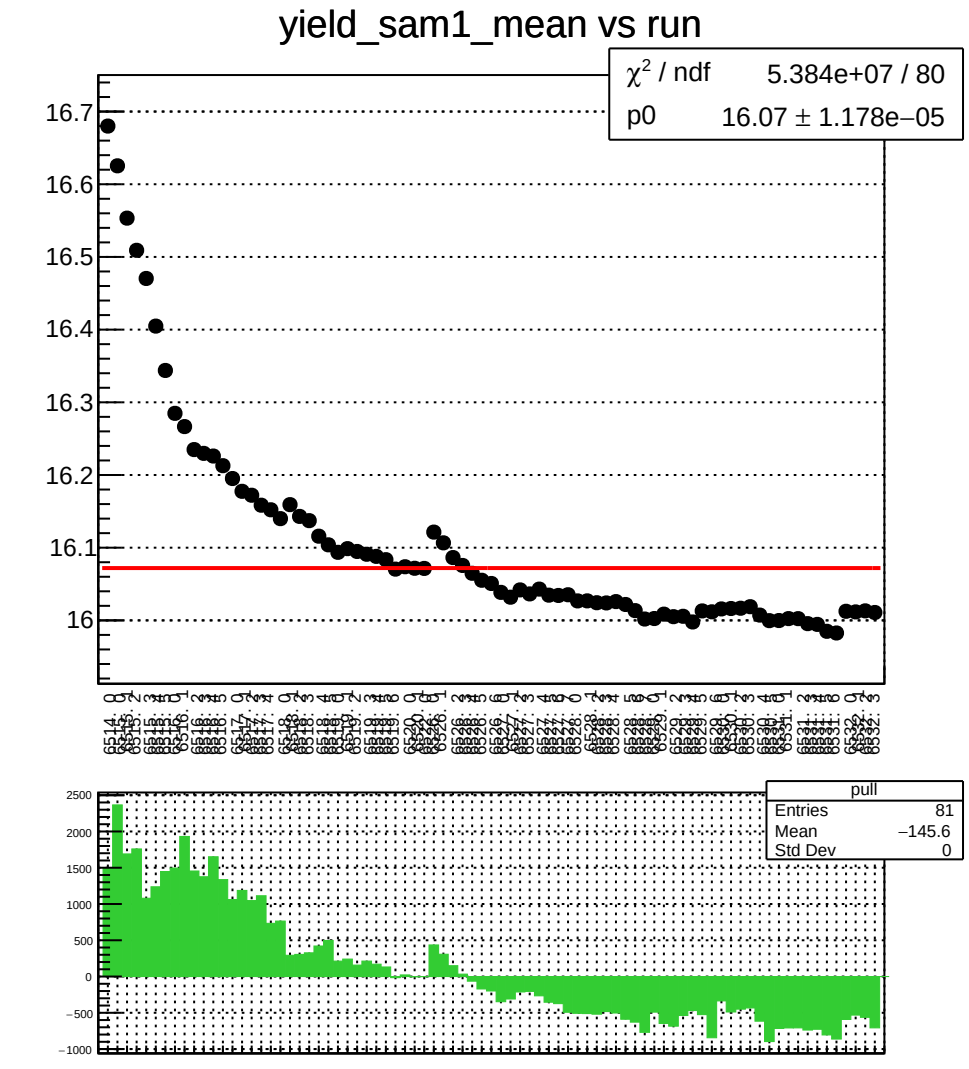

pull1D
Entries 81
Mean −0.03473
Std Dev 1.113

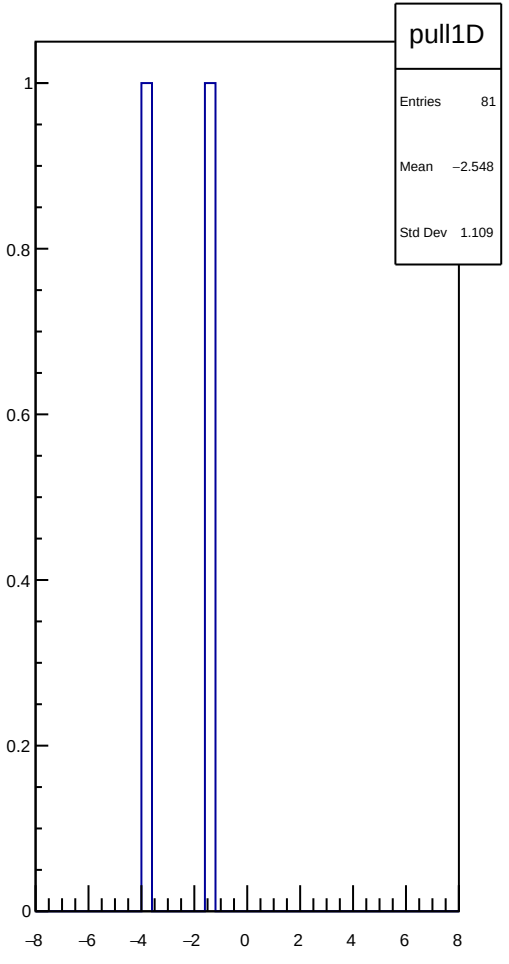

diff_bpm1i06X_rms vs run
χ² / ndf 1.403e+04 / 80
p0 1993 ± 1.602
2600
2400
2200
2000
1800
1600

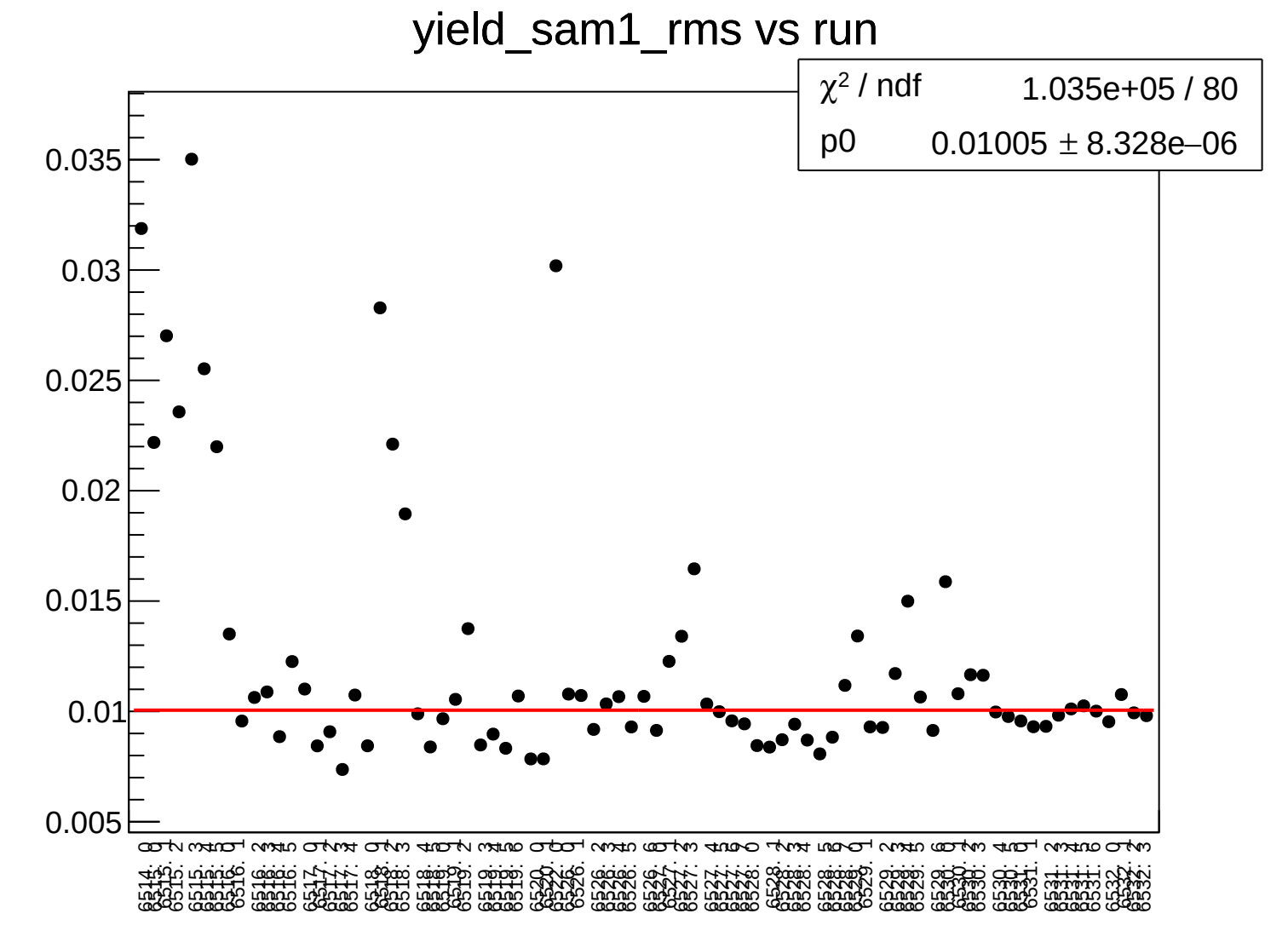

diff_bpm1i06Y_mean vs run
χ² / ndf 75.96 / 80
p0 −11.81 ± 2.686
pull
Entries 81
Mean 44.21
Std Dev 0

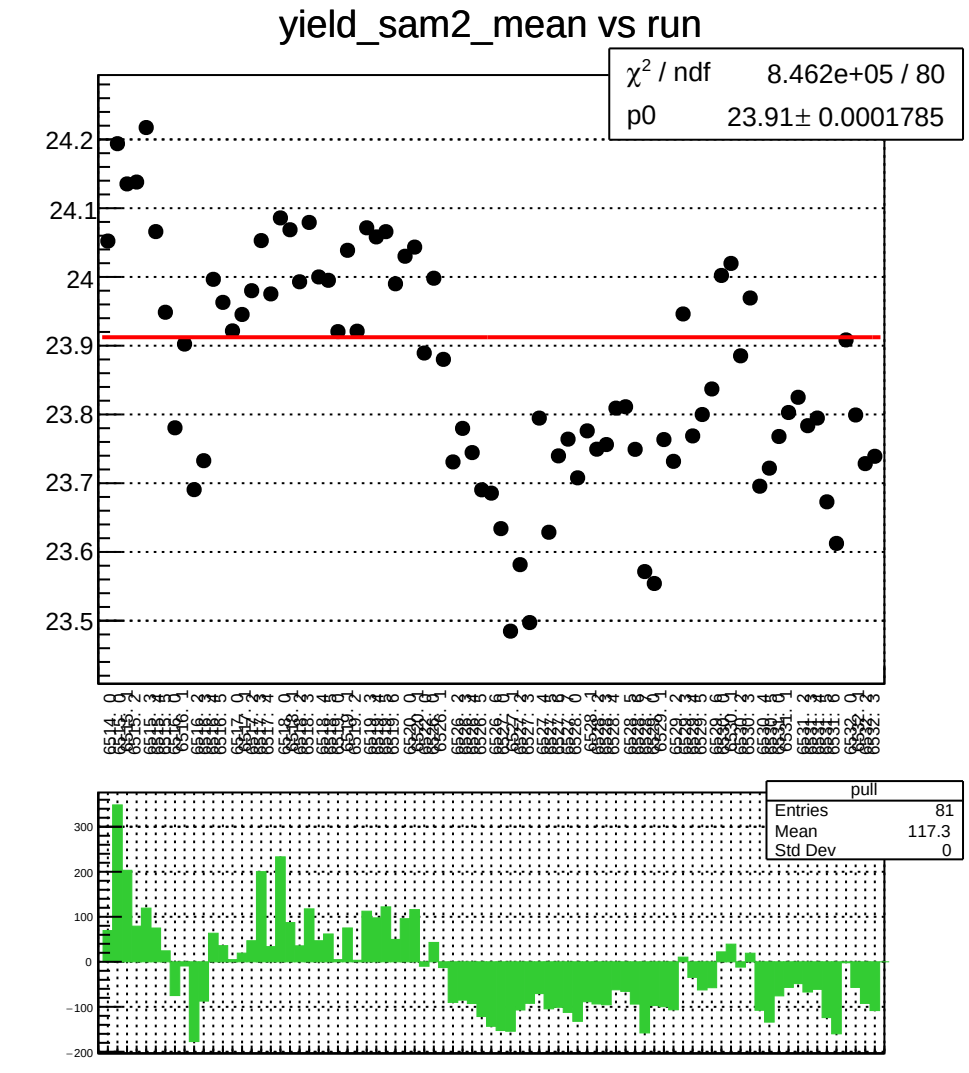

pull1D
Entries 81
Mean −0.02654
Std Dev 0.968

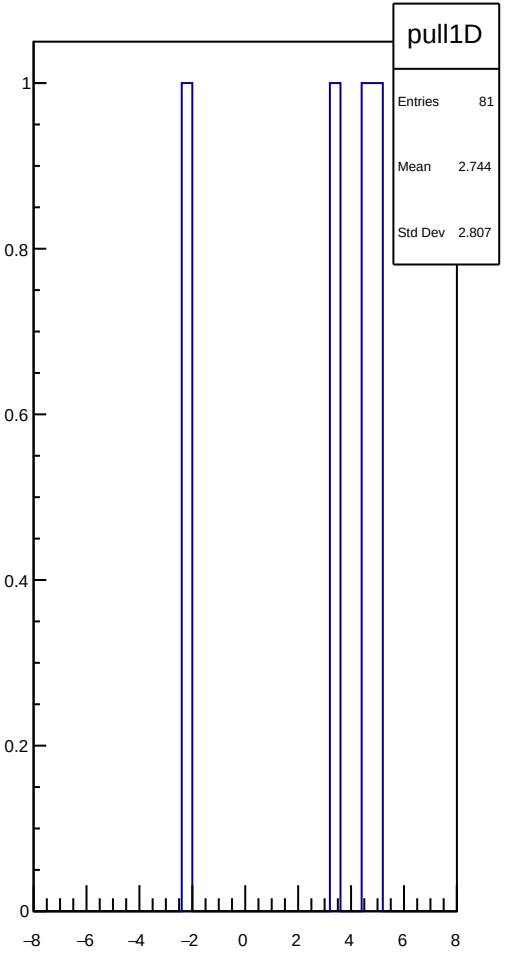

diff_bpm1i06Y_rms vs run
χ² / ndf 8348 / 80
p0 2367 ± 1.9
2800
2600
2400
2200
2000

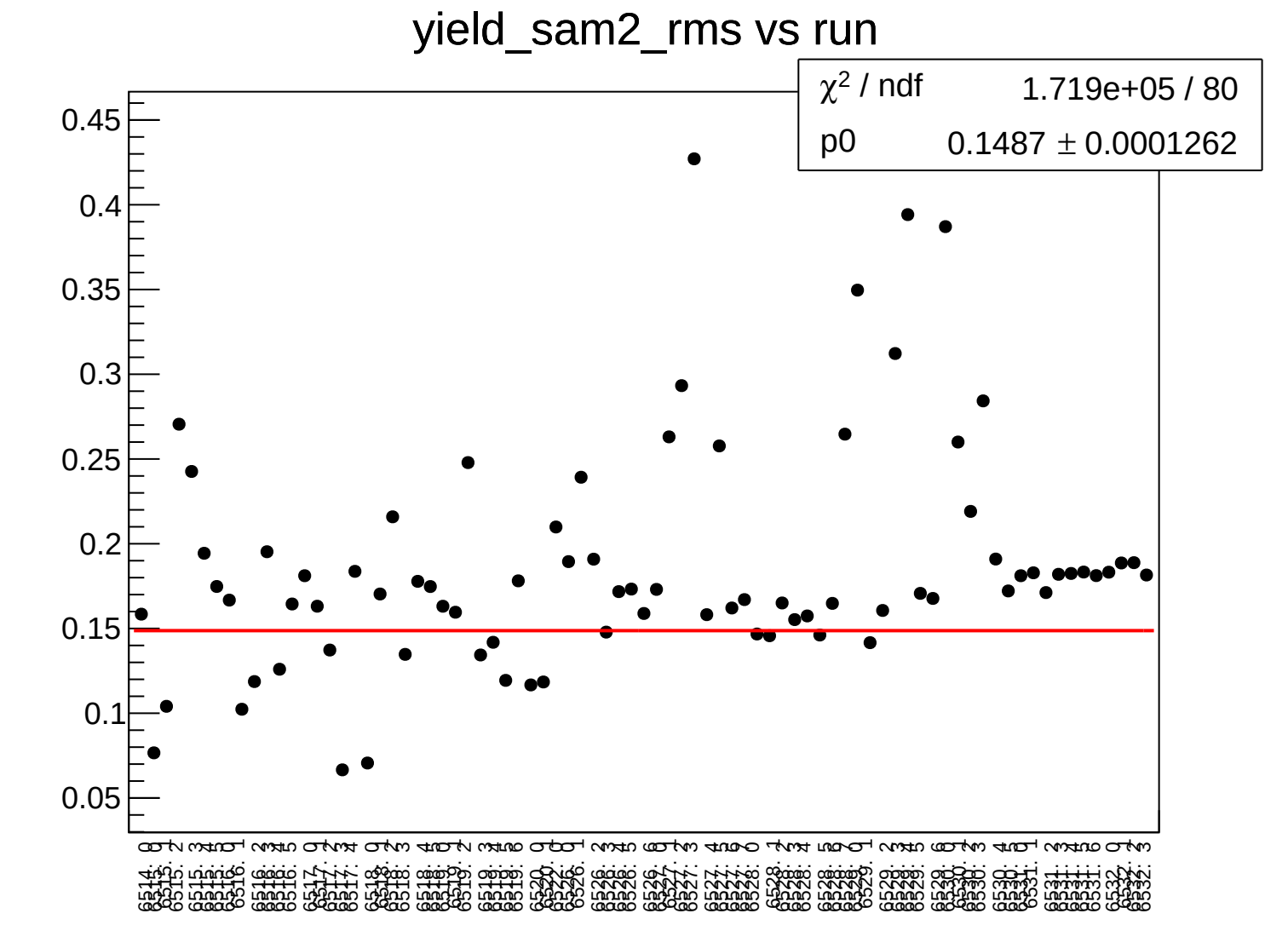

yield_sam1_mean vs run
χ² / ndf 5.384e+07 / 80
p0 16.07 ± 1.178e−05
16.7
16.6
16.5
16.4
16.3
16.2
16.1
16
pull
Entries 81
Mean −145.6
Std Dev 0
2500
2000
1500
1000
500
0
−500
−1000

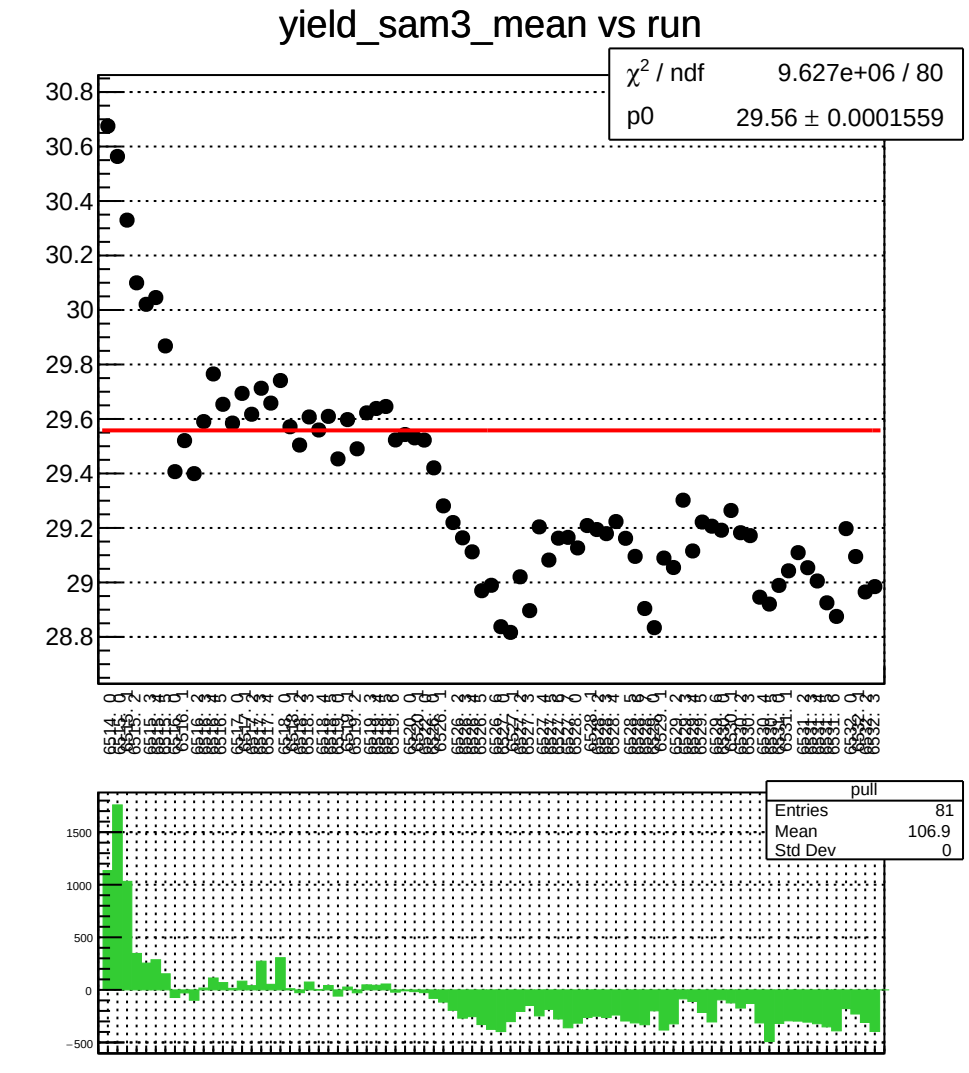

pull1D
Entries 81
Mean −2.548
Std Dev 1.109
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

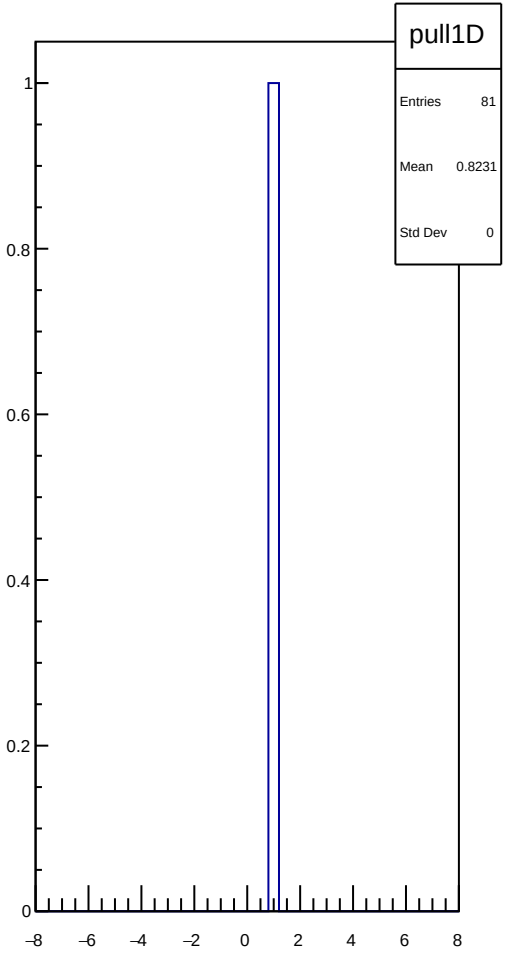

yield_sam1_rms vs run
χ² / ndf 1.035e+05 / 80
p0 0.01005 ± 8.328e–06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

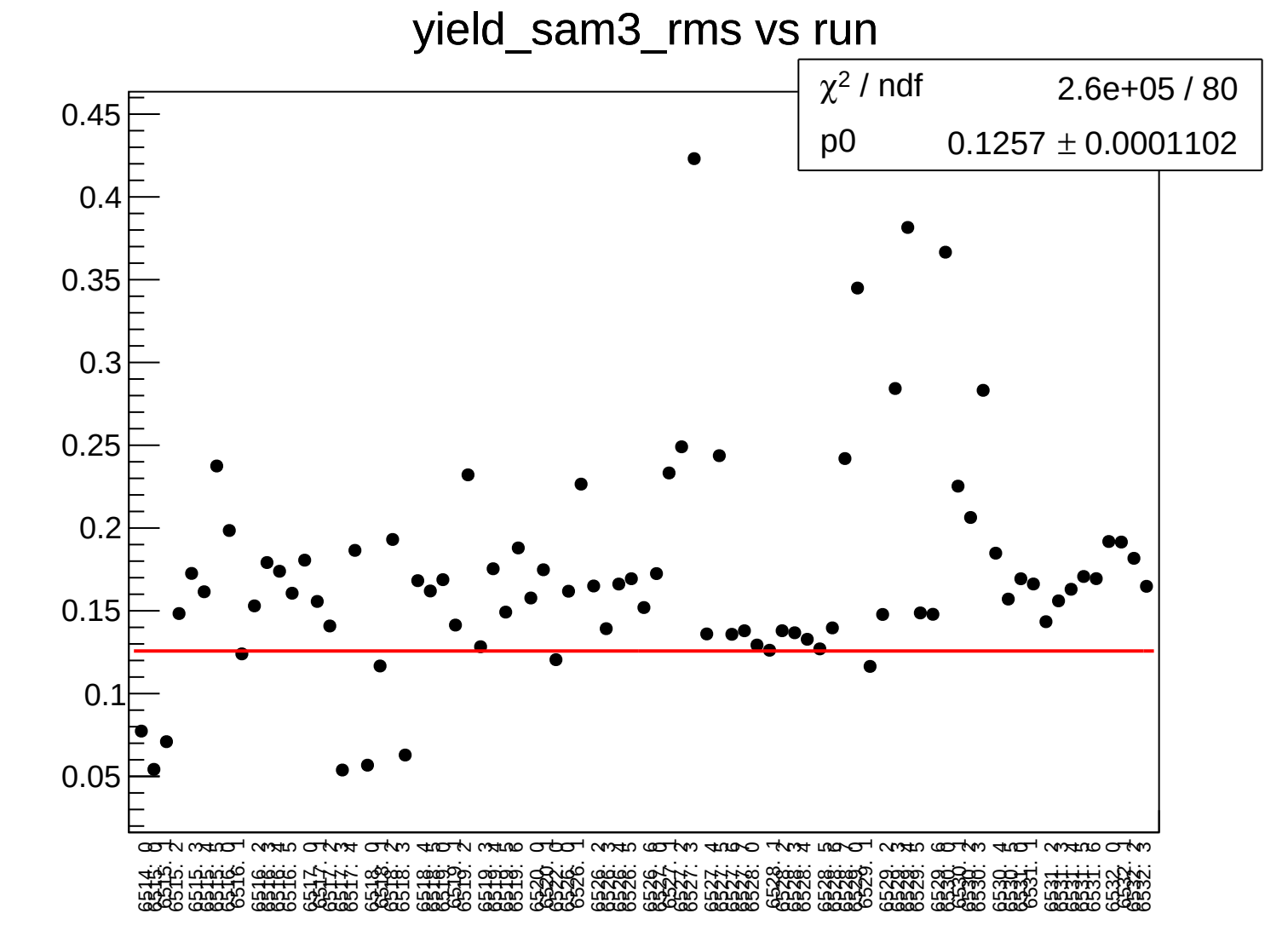

yield_sam2_mean vs run
χ² / ndf 8.462e+05 / 80
p0 23.91± 0.0001785
24.2
24.1
24
23.9
23.8
23.7
23.6
23.5
pull
Entries 81
Mean 117.3
Std Dev 0
300
200
100
0
−100
−200

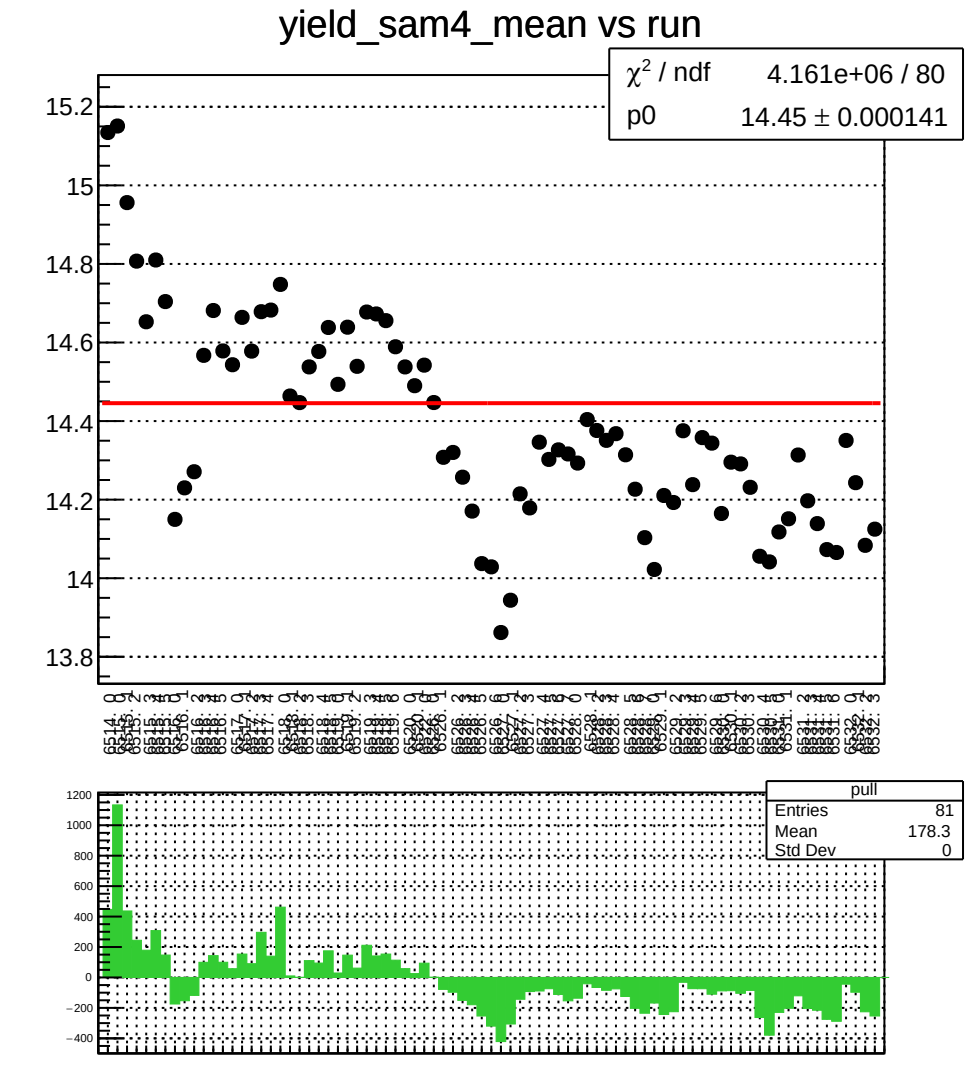

pull1D
Entries 81
Mean 2.744
Std Dev 2.807
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

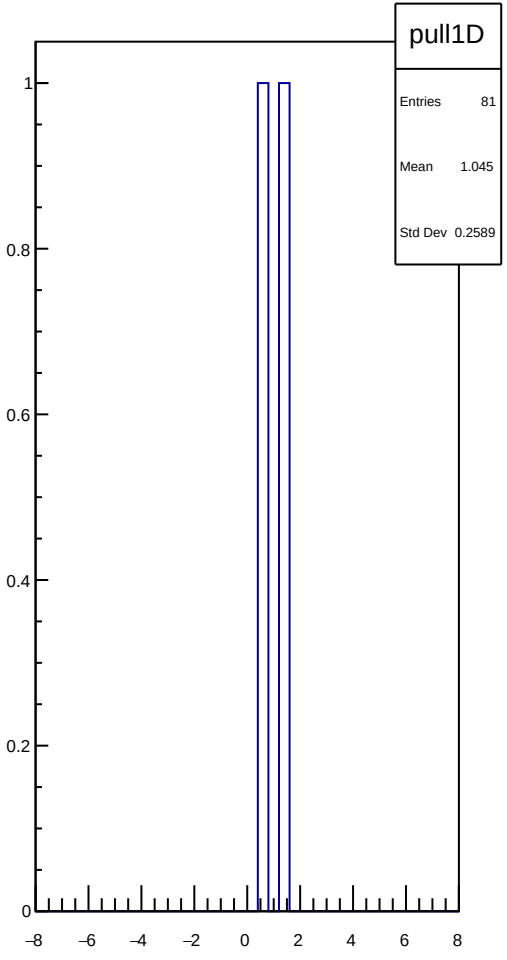

yield_sam2_rms vs run
χ² / ndf 1.719e+05 / 80
p0 0.1487 ± 0.0001262
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

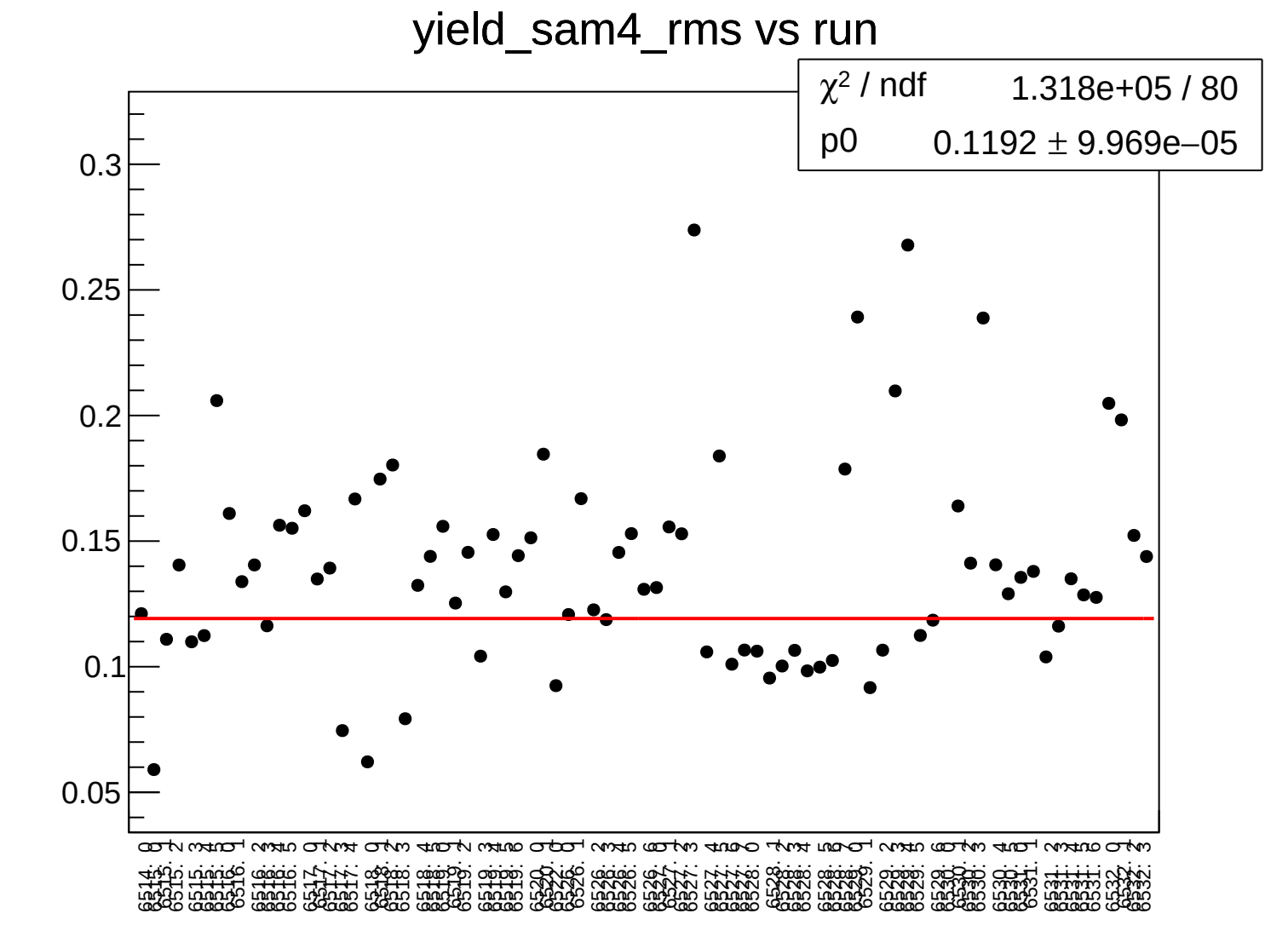

yield_sam3_mean vs run
χ² / ndf 9.627e+06 / 80
p0 29.56 ± 0.0001559
30.8
30.6
30.4
30.2
30
29.8
29.6
29.4
29.2
29
28.8
pull
Entries 81
Mean 106.9
Std Dev 0
1500
1000
500
0
−500

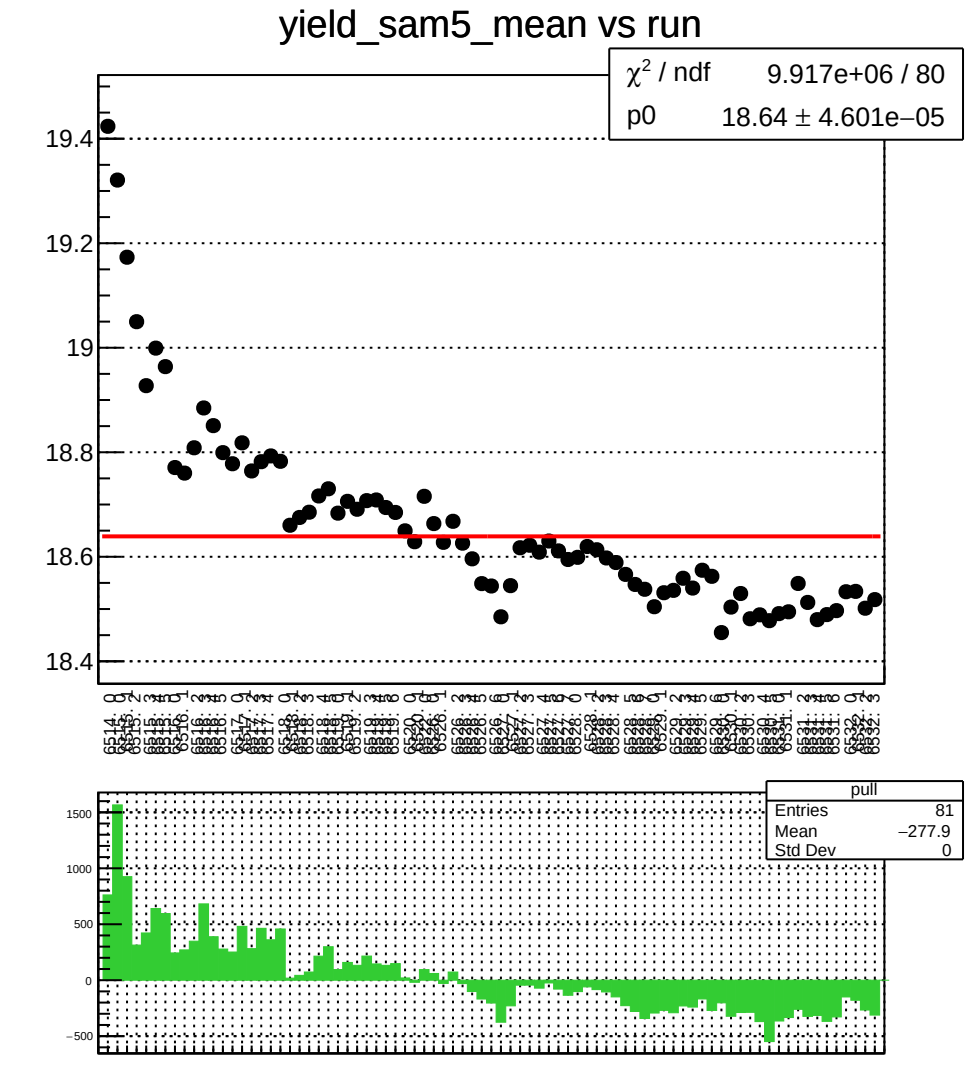

pull1D
Entries 81
Mean 0.8231
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

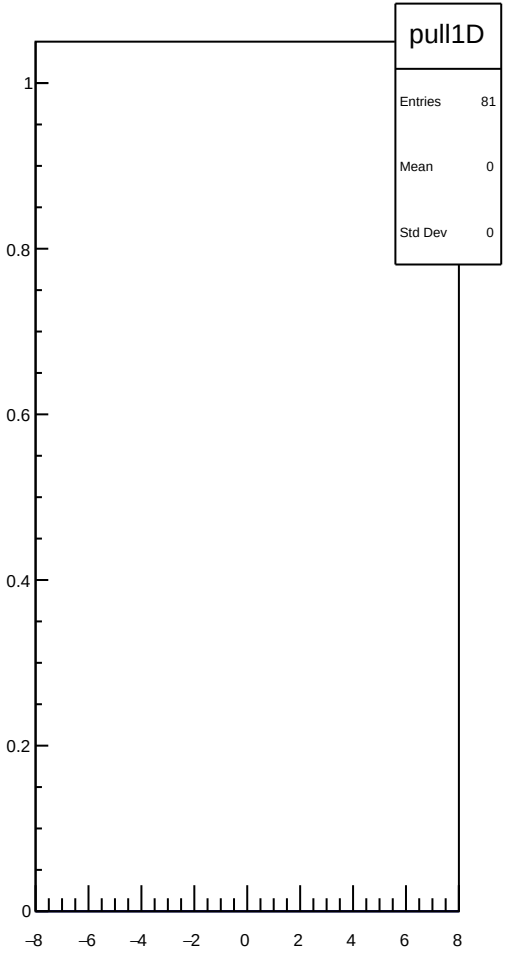

yield_sam3_rms vs run
χ² / ndf 2.6e+05 / 80
p0 0.1257 ± 0.0001102
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

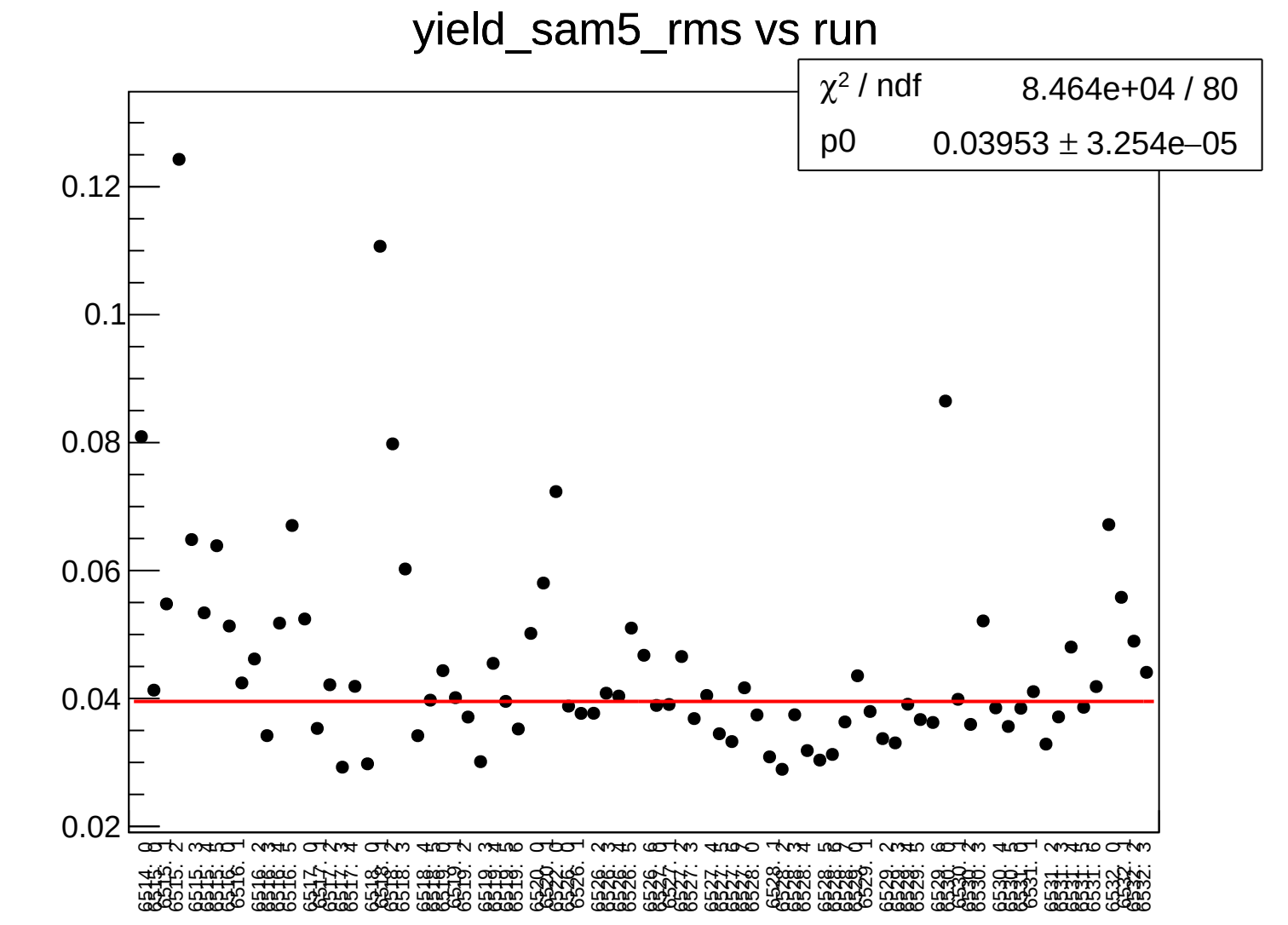

yield_sam4_mean vs run
χ² / ndf 4.161e+06 / 80
p0 14.45 ± 0.000141
15.2
15
14.8
14.6
14.4
14.2
14
13.8
pull
Entries 81
Mean 178.3
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400

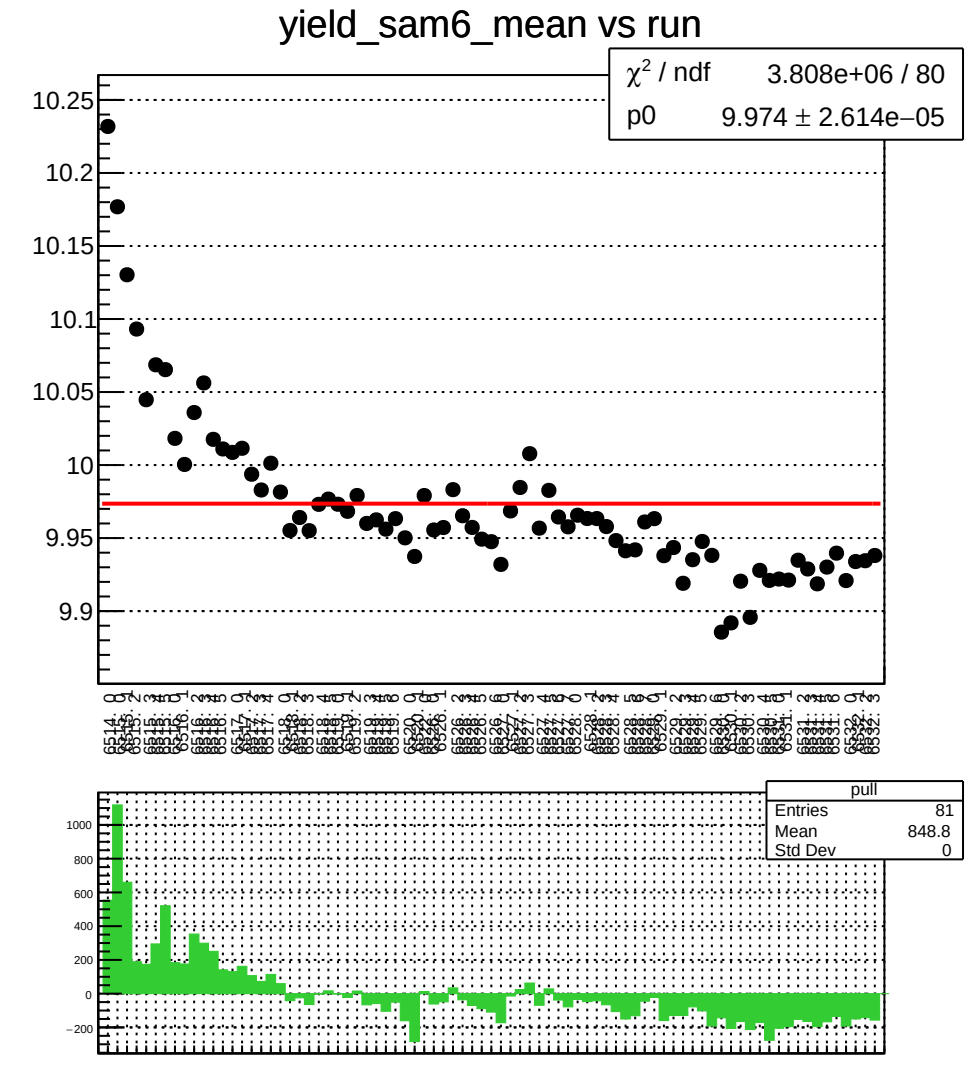

pull1D
Entries 81
Mean 1.045
Std Dev 0.2589
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

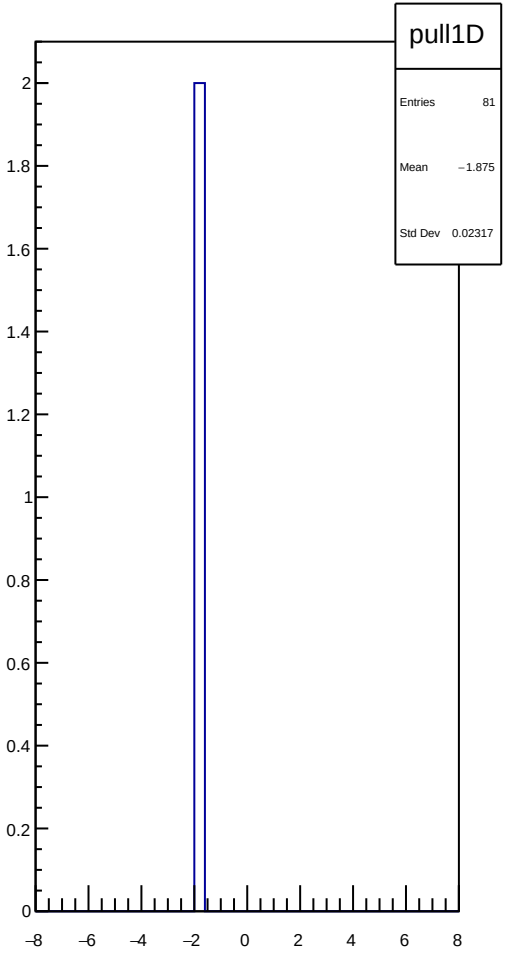

yield_sam4_rms vs run
χ² / ndf 1.318e+05 / 80
p0 0.1192 ± 9.969e−05
0.3
0.25
0.2
0.15
0.1
0.05

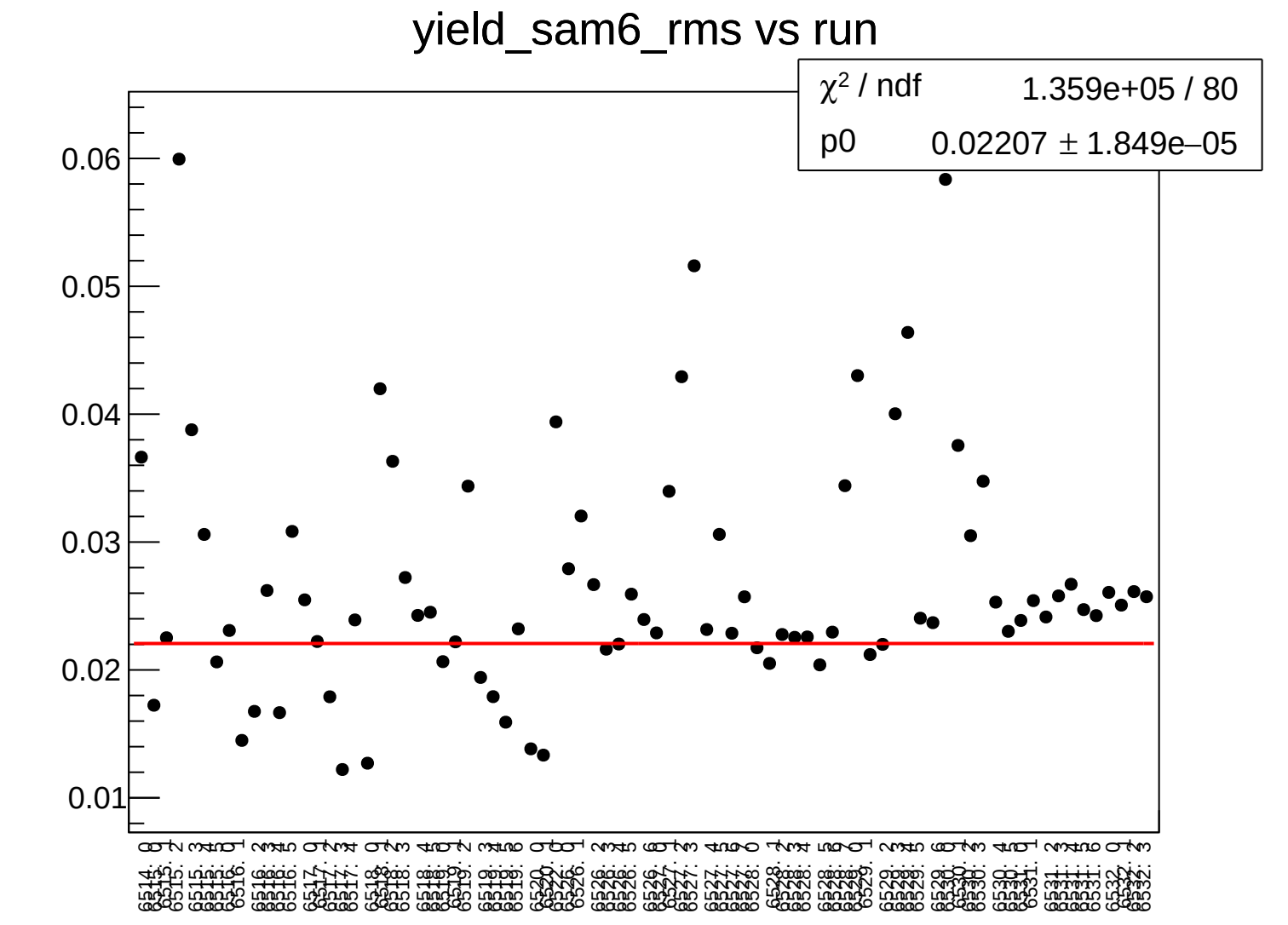

yield_sam5_mean vs run
χ² / ndf 9.917e+06 / 80
p0 18.64 ± 4.601e−05
19.4
19.2
19
18.8
18.6
18.4
pull
Entries 81
Mean −277.9
Std Dev 0
1500
1000
500
0
−500

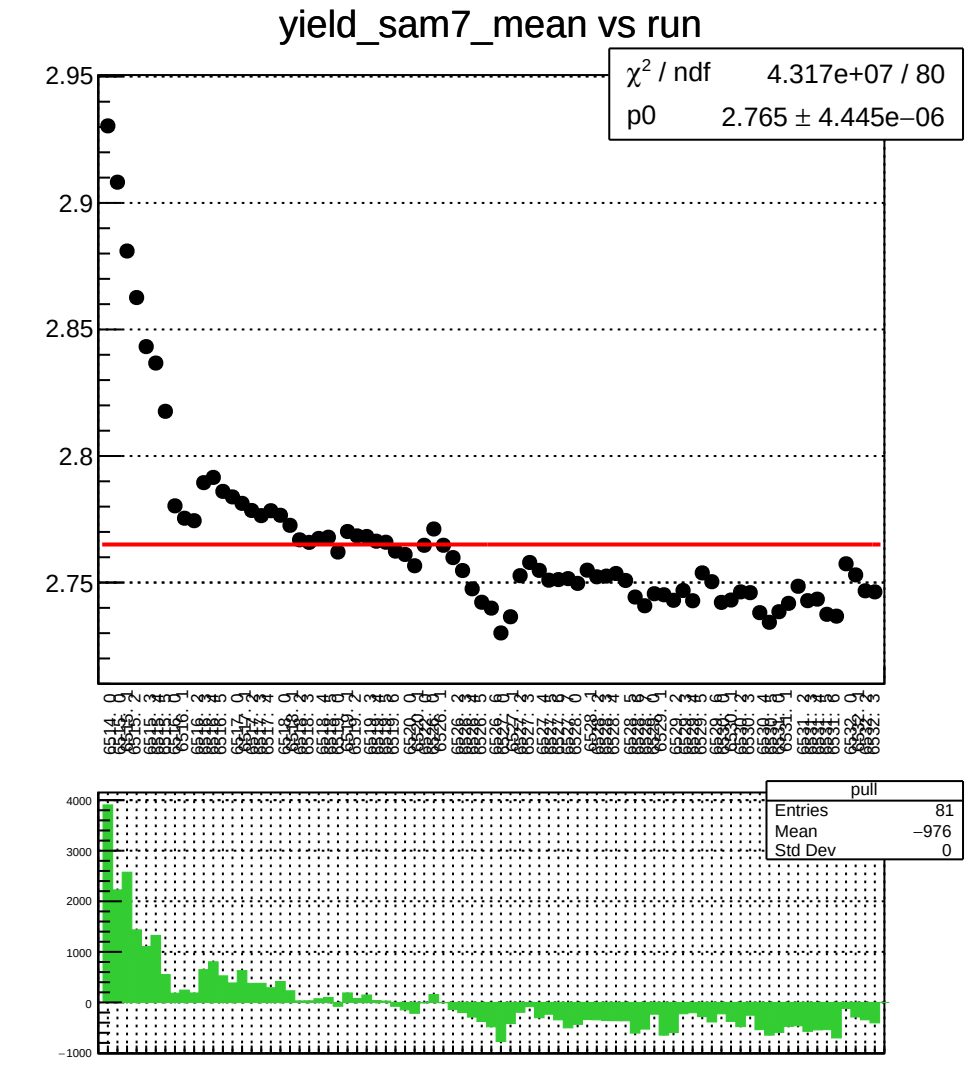

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

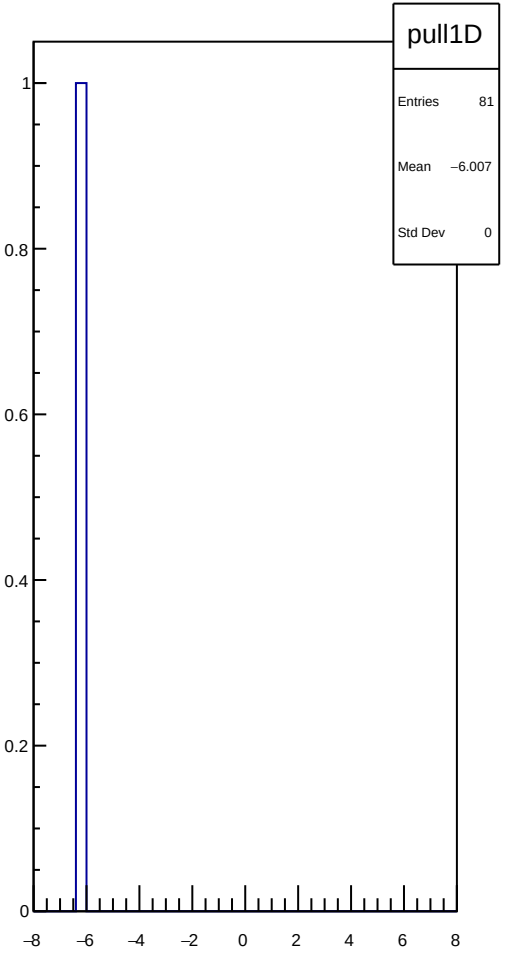

yield_sam5_rms vs run
χ² / ndf 8.464e+04 / 80
p0 0.03953 ± 3.254e−05
0.12
0.1
0.08
0.06
0.04
0.02

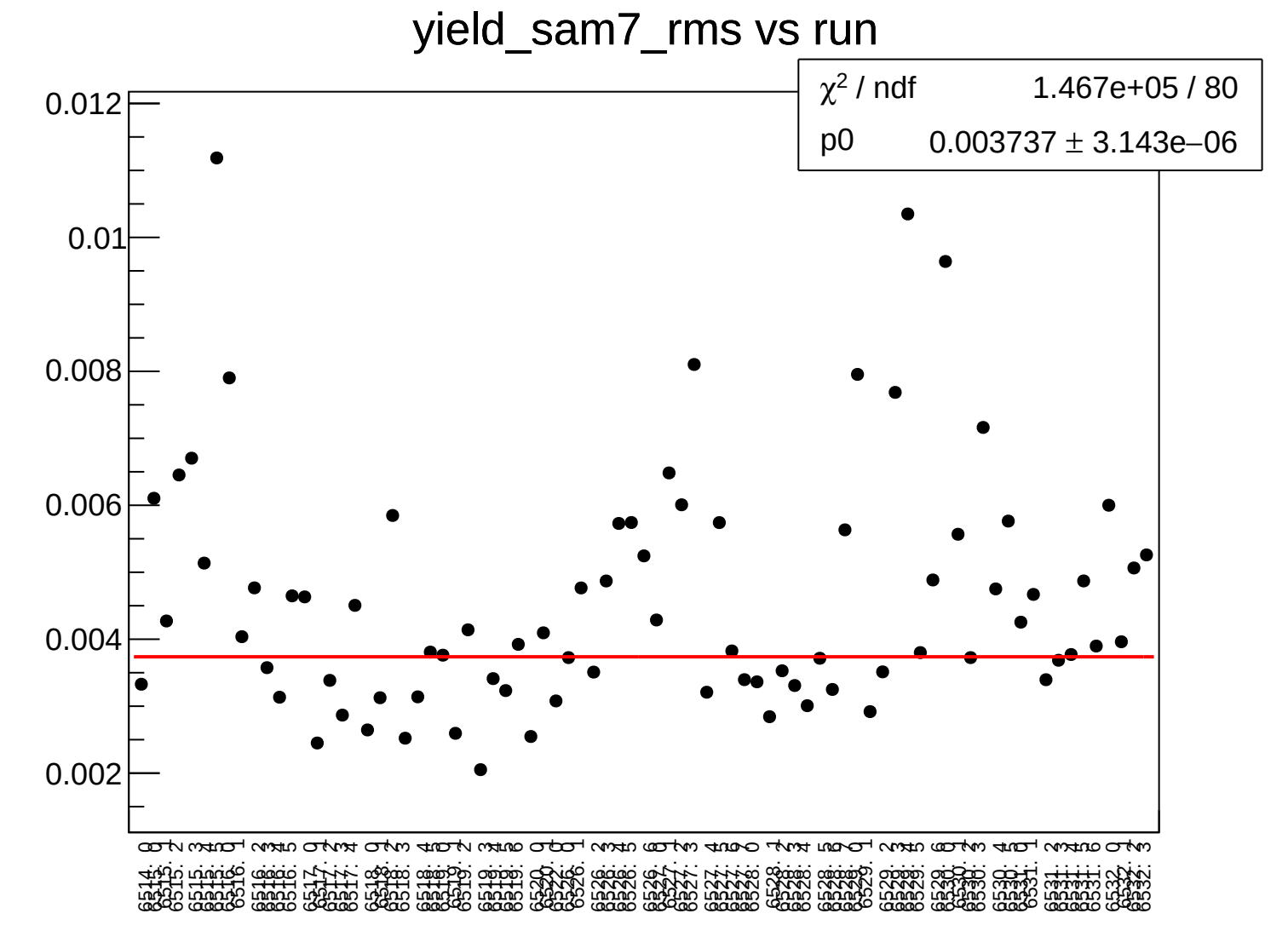

yield_sam6_mean vs run
χ² / ndf 3.808e+06 / 80
p0 9.974 ± 2.614e−05
10.25
10.2
10.15
10.1
10.05
10
9.95
9.9
pull
Entries 81
Mean 848.8
Std Dev 0
1000
800
600
400
200
0
−200

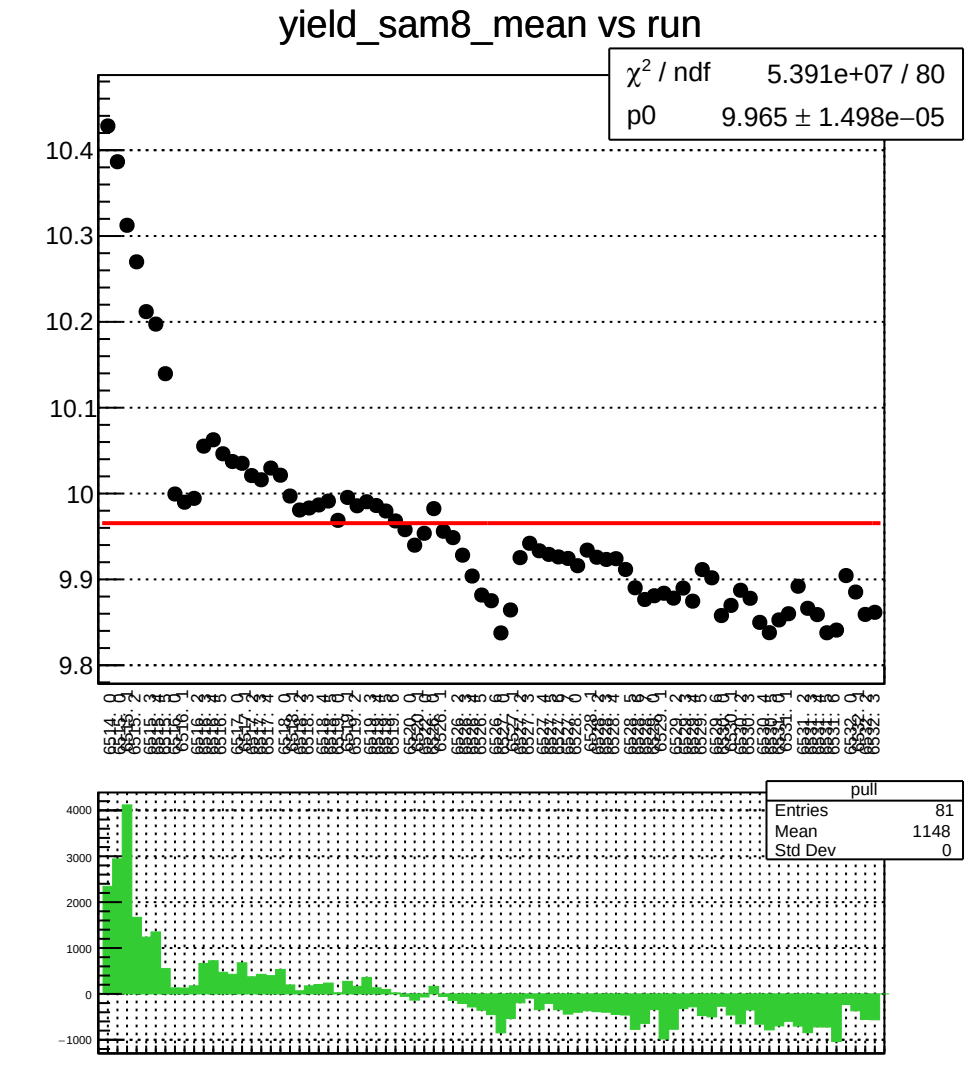

pull1D
Entries 81
Mean −1.875
Std Dev 0.02317
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

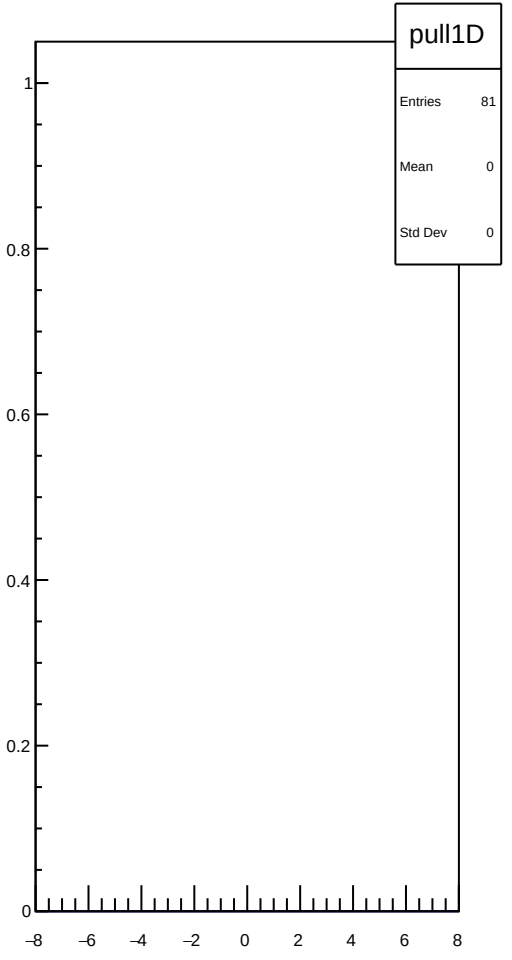

yield_sam6_rms vs run
χ² / ndf 1.359e+05 / 80
p0 0.02207 ± 1.849e−05
0.06
0.05
0.04
0.03
0.02
0.01

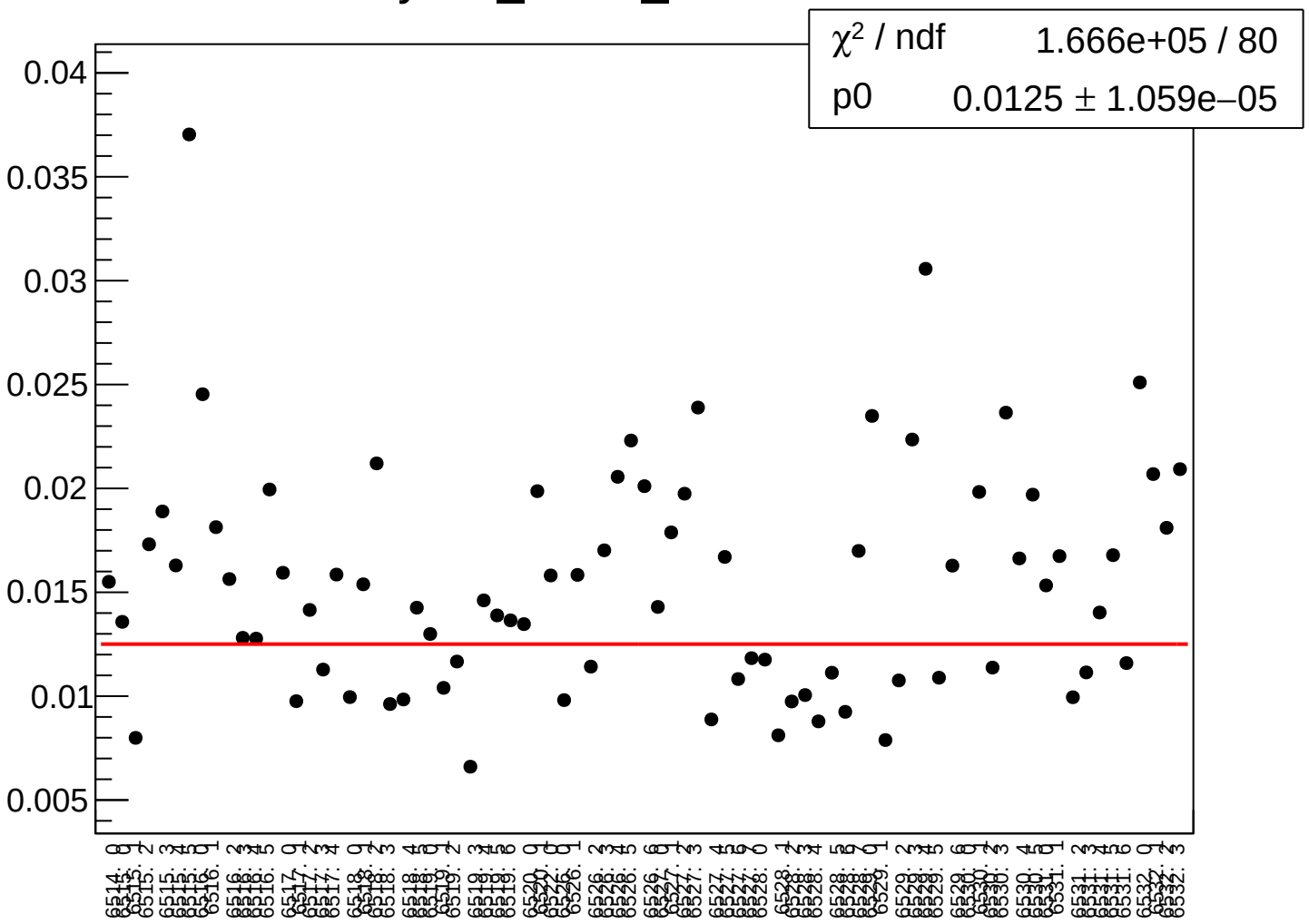

yield_sam7_mean vs run
χ² / ndf 4.317e+07 / 80
p0 2.765 ± 4.445e−06
2.95
2.9
2.85
2.8
2.75
pull
Entries 81
Mean −976
Std Dev 0
4000
3000
2000
1000
0
−1000

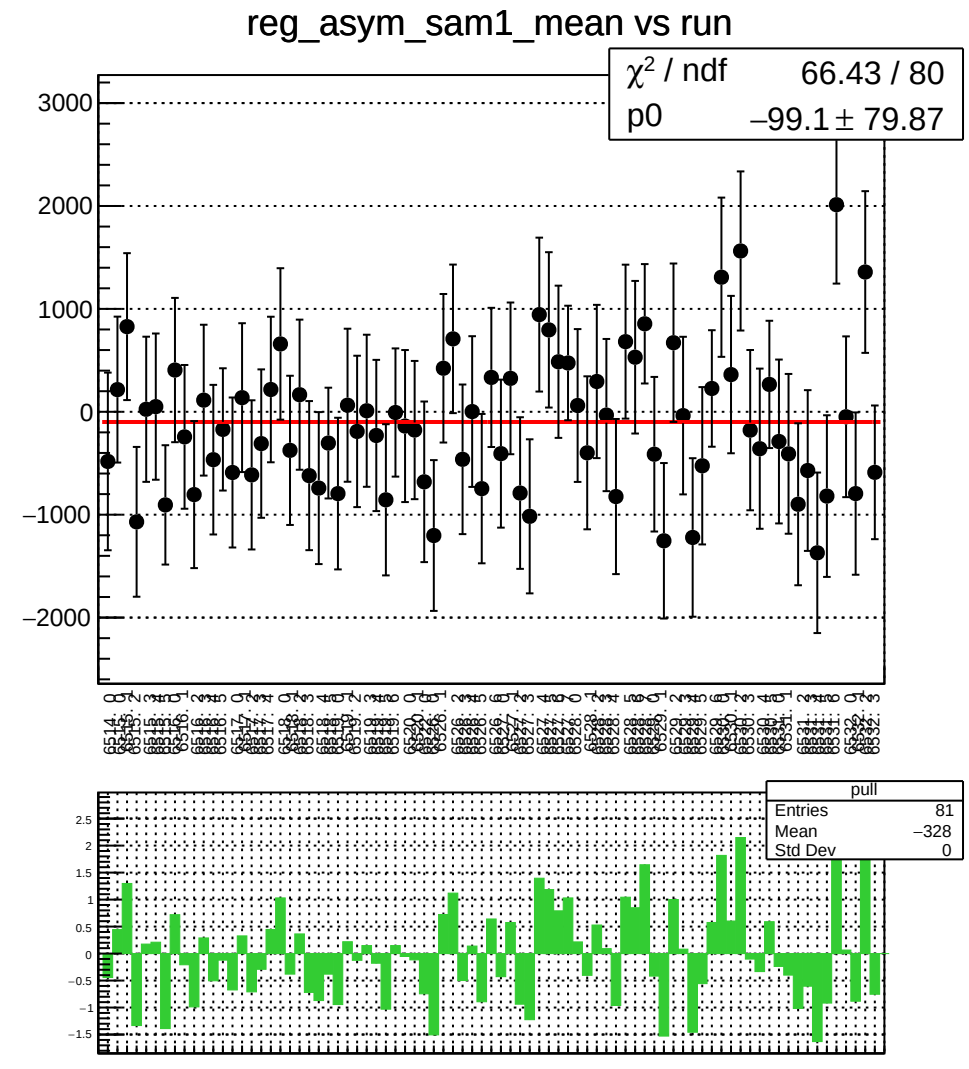

pull1D
Entries 81
Mean −6.007
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

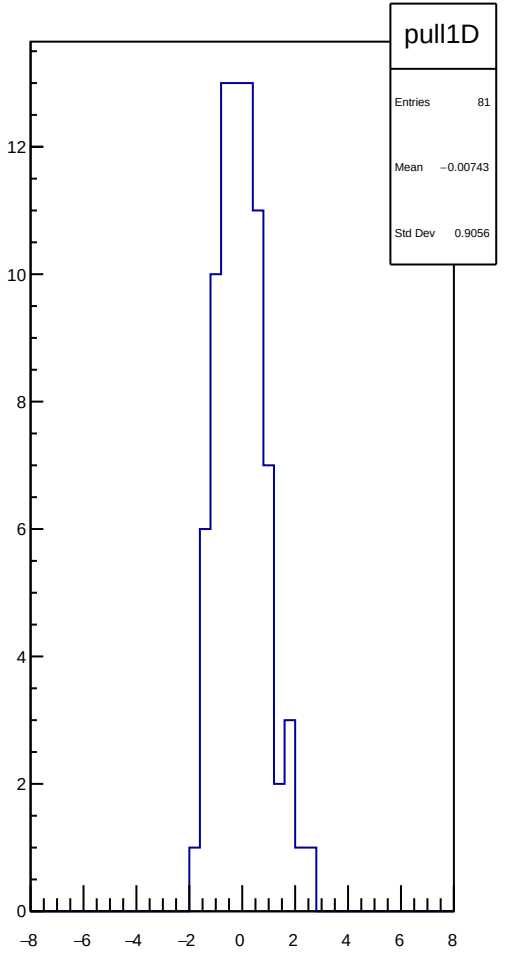

yield_sam7_rms vs run
χ² / ndf 1.467e+05 / 80
p0 0.003737 ± 3.143e−06
0.012
0.01
0.008
0.006
0.004
0.002

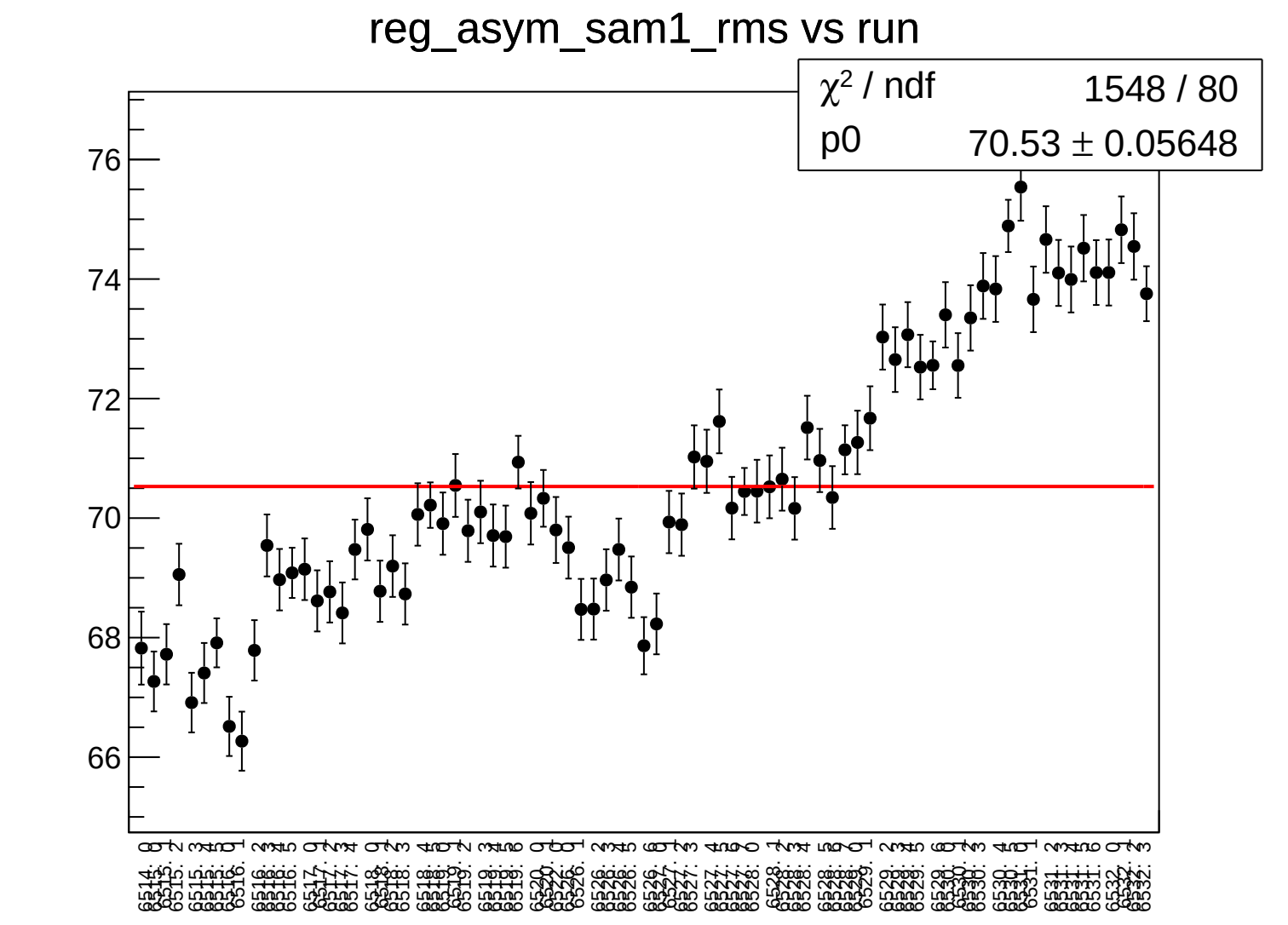

yield_sam8_mean vs run
χ² / ndf 5.391e+07 / 80
p0 9.965 ± 1.498e−05
10.4
10.3
10.2
10.1
10
9.9
9.8
pull
Entries 81
Mean 1148
Std Dev 0
4000
3000
2000
1000
0
−1000

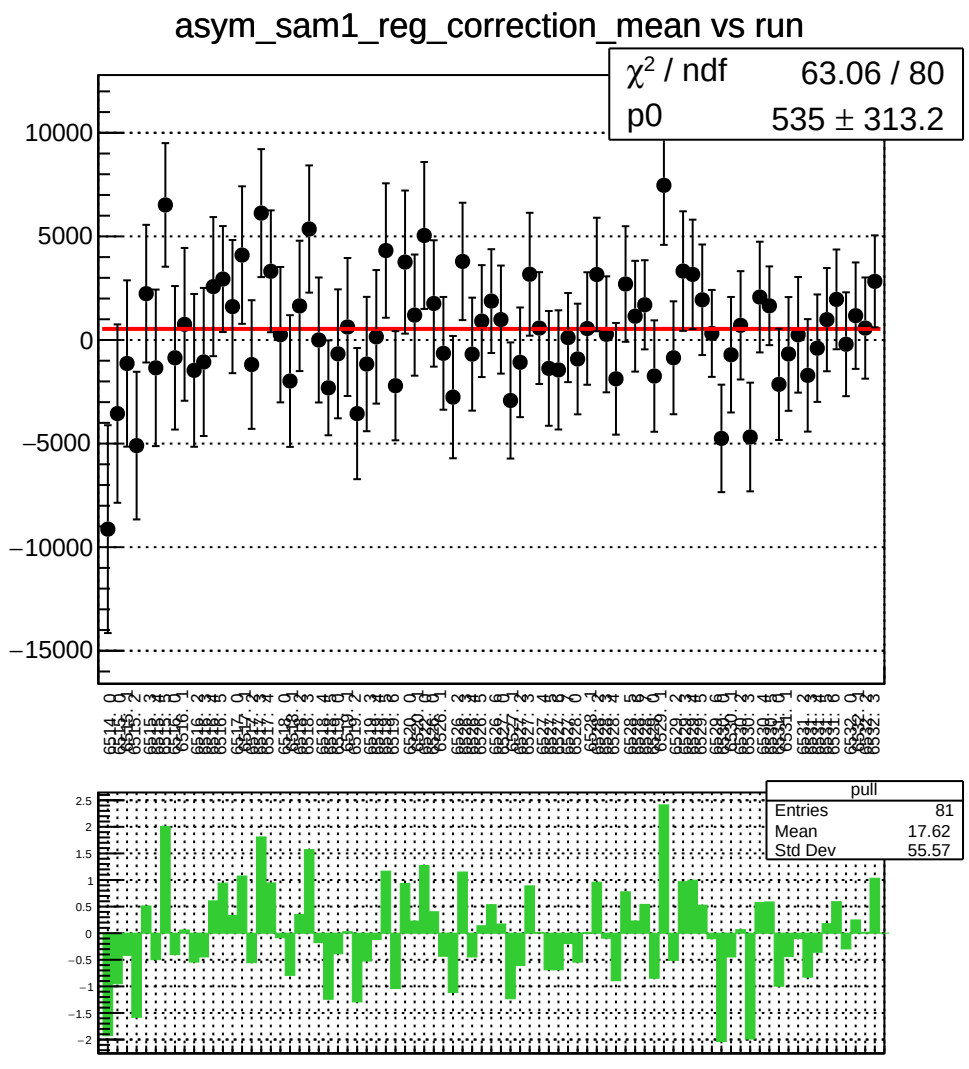

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

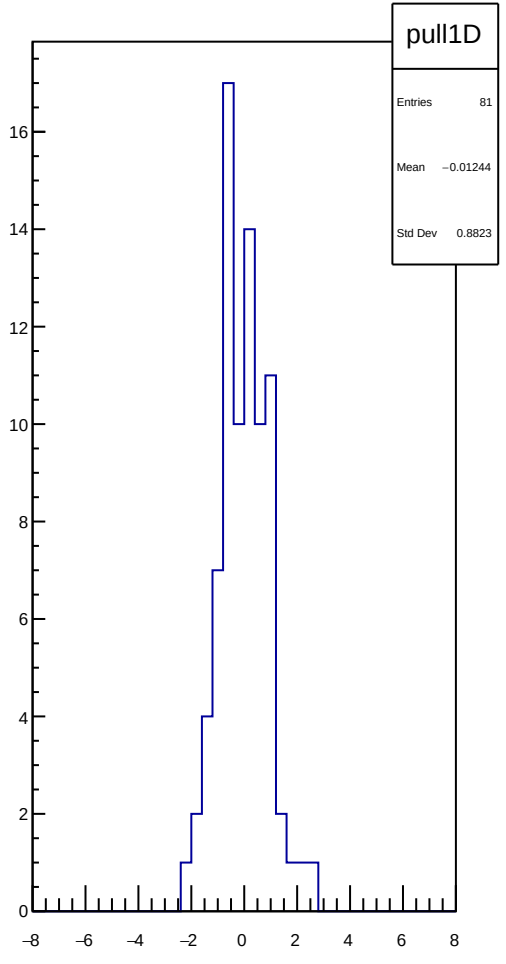

yield_sam8_rms vs run
χ² / ndf 1.666e+05 / 80
p0 0.0125 ± 1.059e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

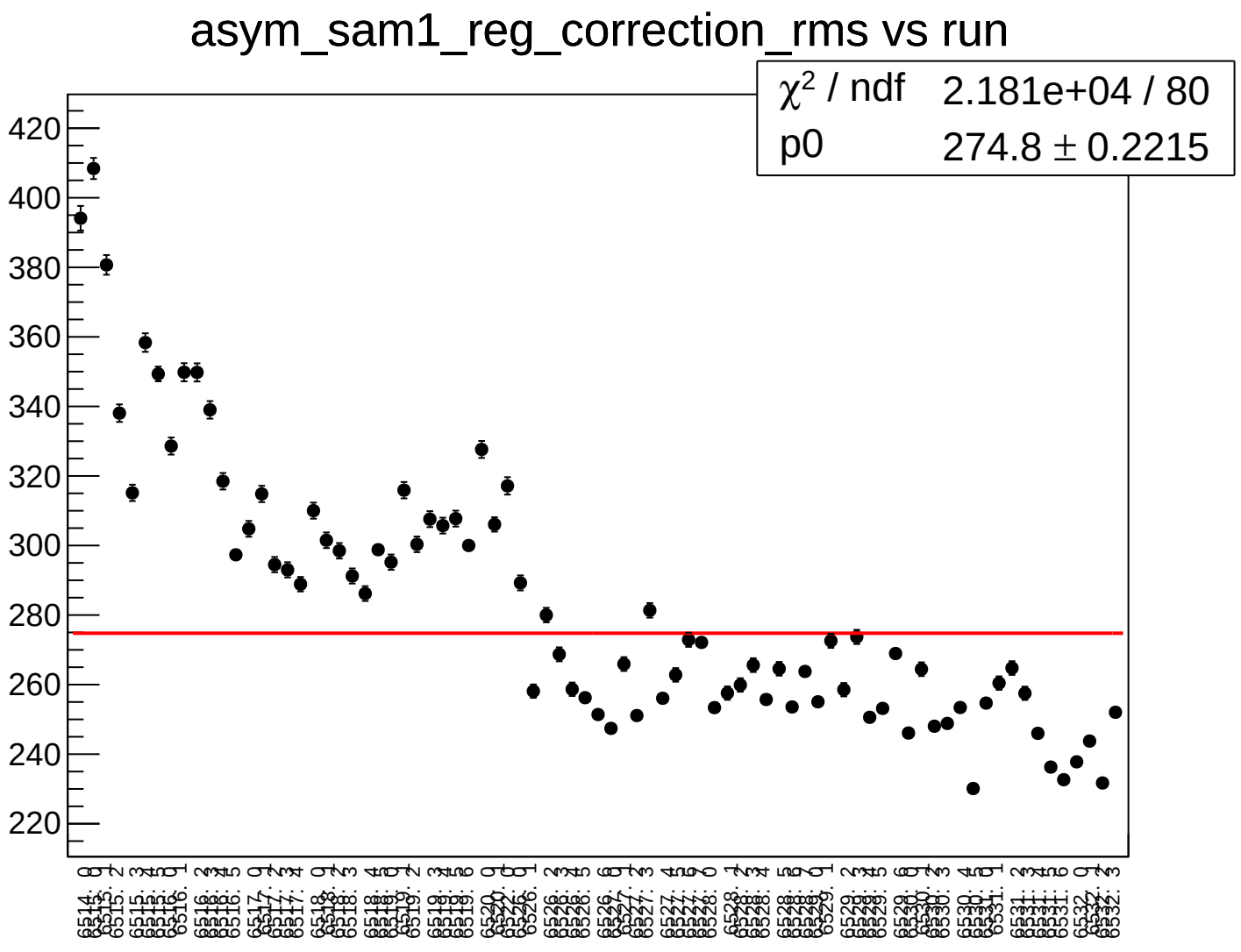

reg_asym_sam1_mean vs run
χ² / ndf 66.43 / 80
p0 −99.1 ± 79.87
3000
2000
1000
0
−1000
−2000
pull
Entries 81
Mean −328
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

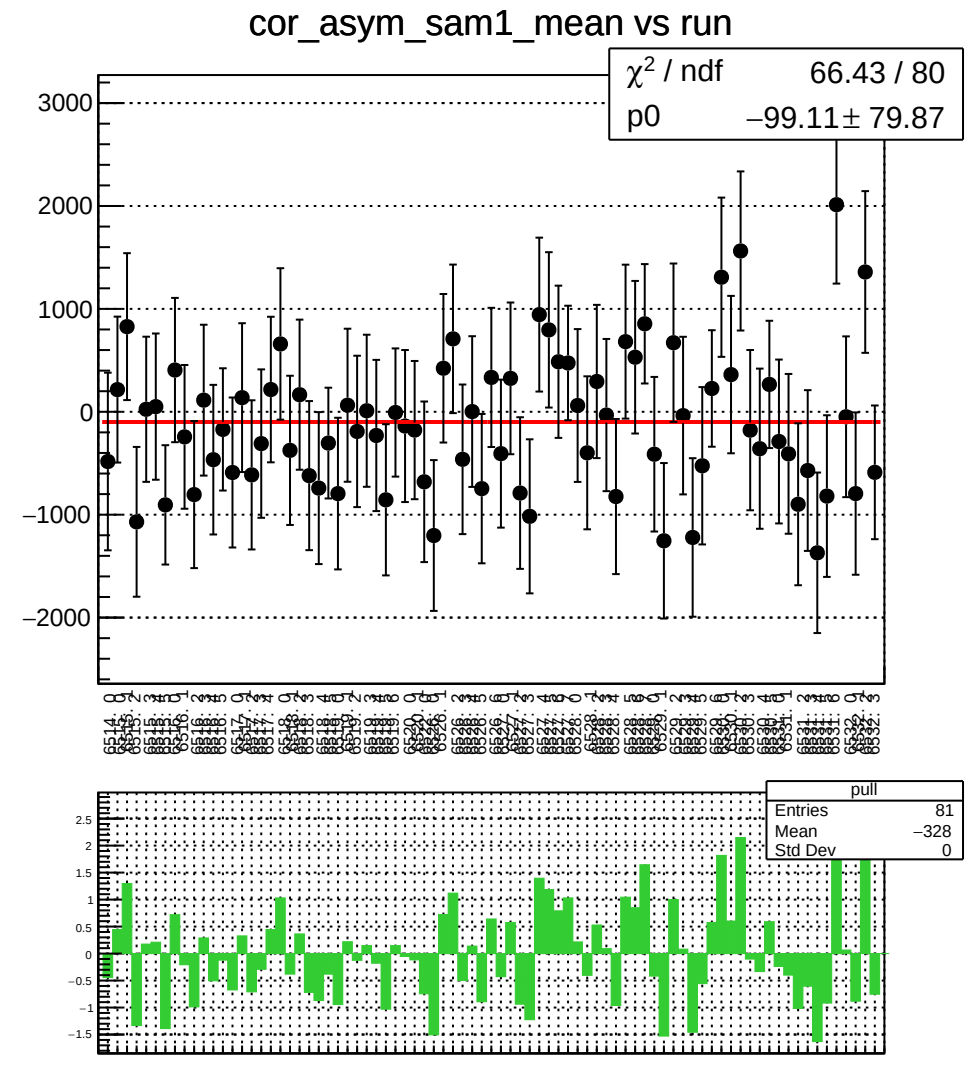

pull1D
Entries 81
Mean −0.00743
Std Dev 0.9056
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

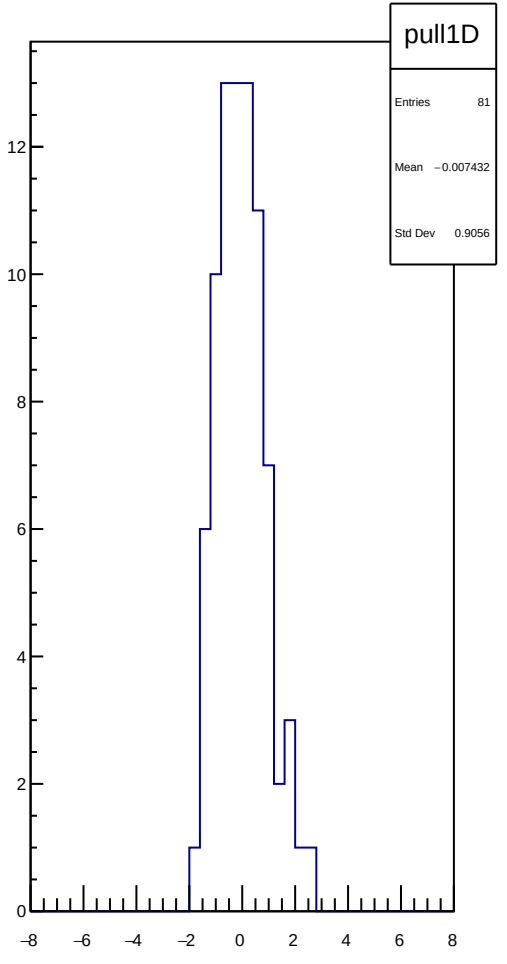

reg_asym_sam1_rms vs run
χ² / ndf 1548 / 80
p0 70.53 ± 0.05648
76
74
72
70
68
66

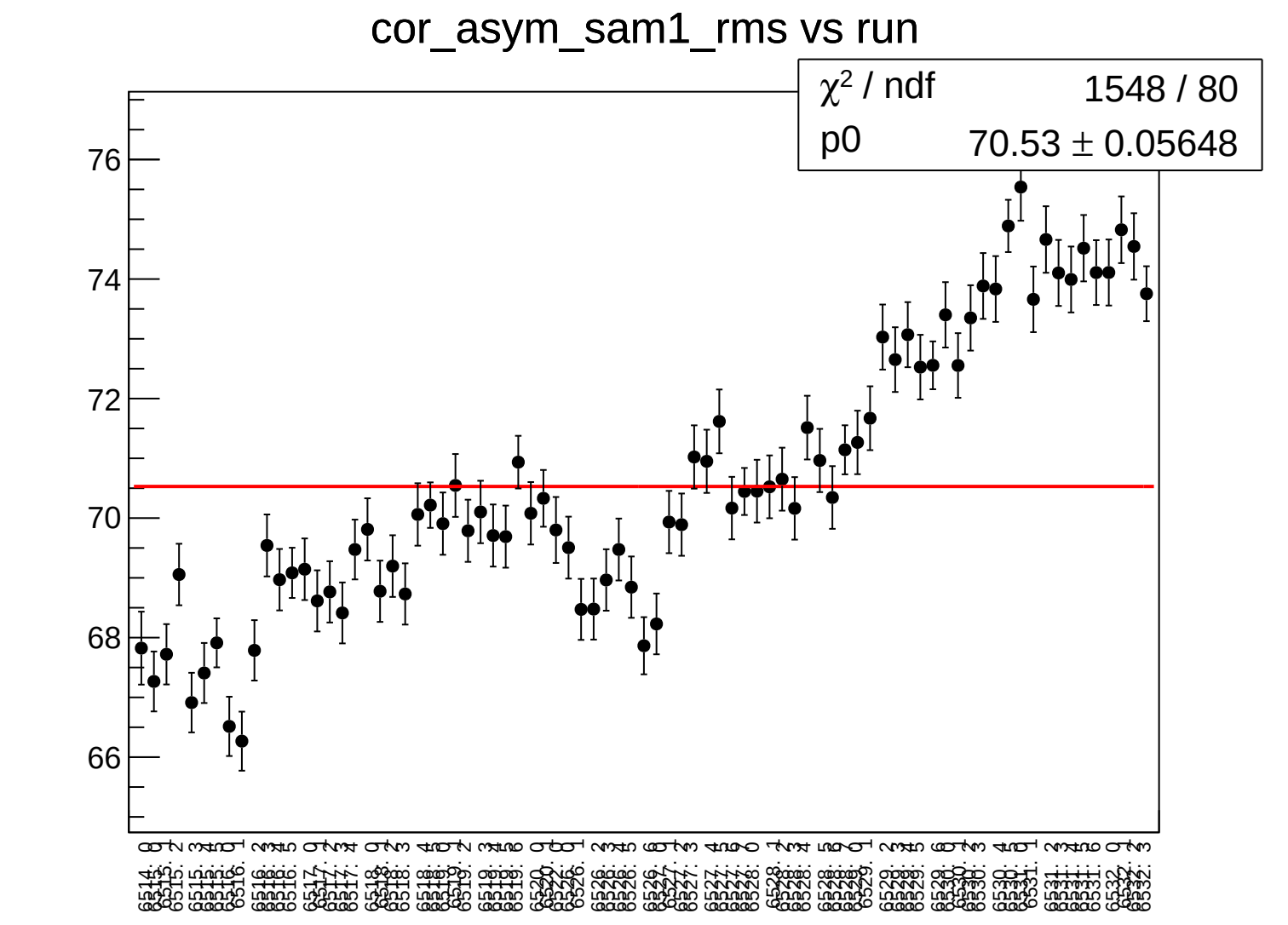

asym_sam1_reg_correction_mean vs run
χ² / ndf 63.06 / 80
p0 535 ± 313.2
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean 17.62
Std Dev 55.57
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

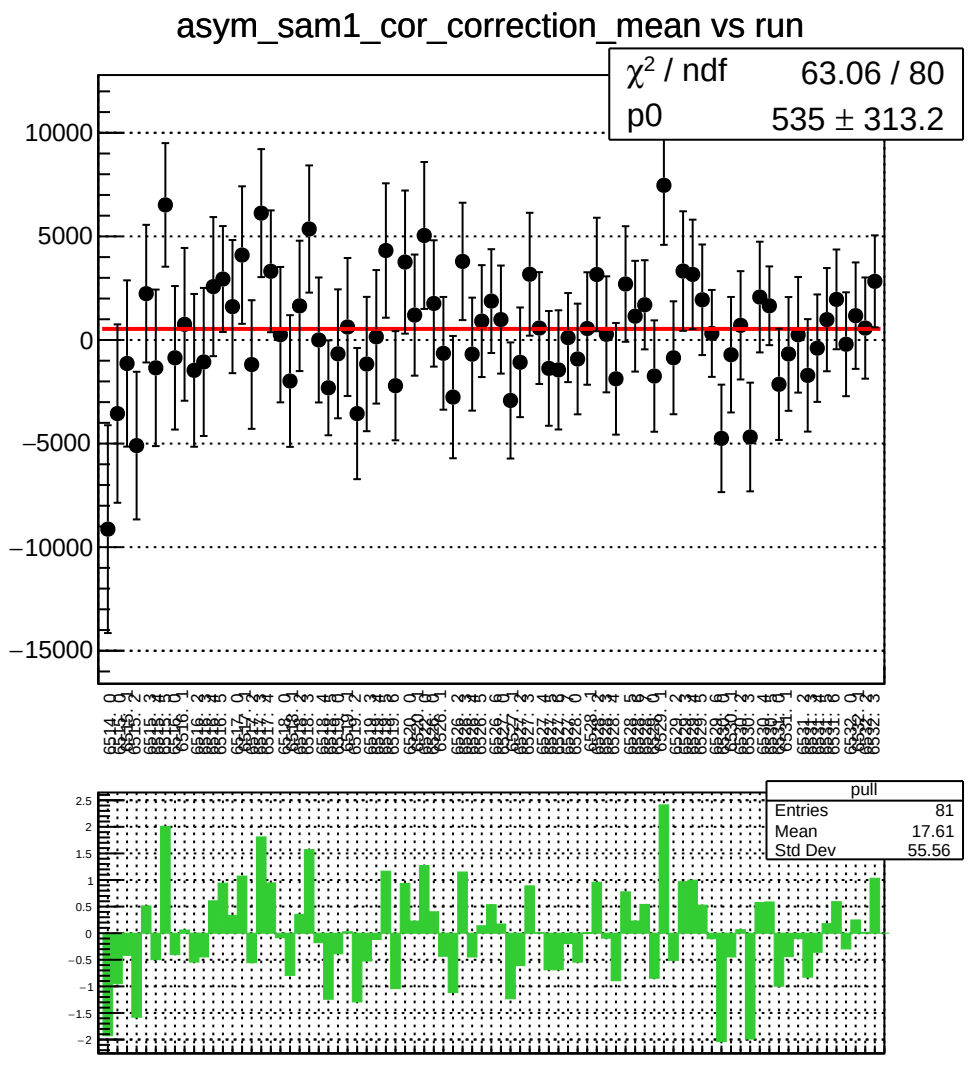

pull1D
Entries 81
Mean −0.01244
Std Dev 0.8823
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

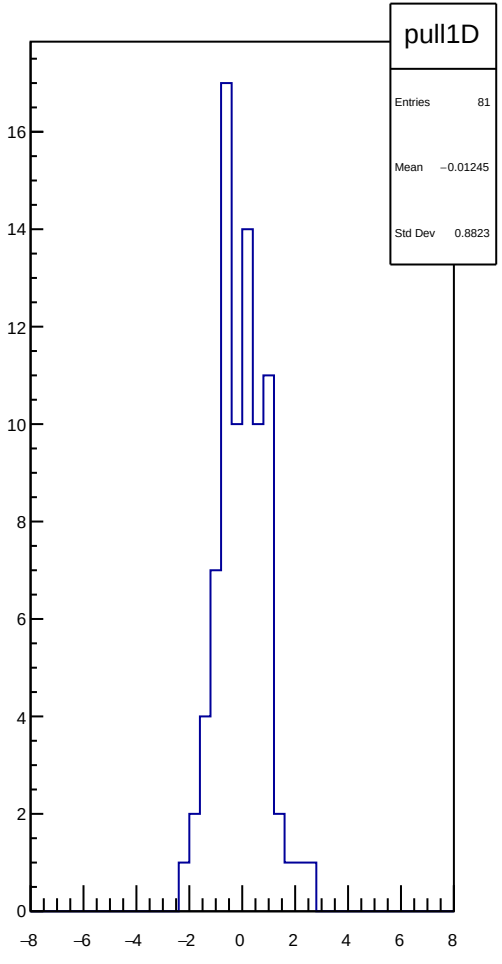

asym_sam1_reg_correction_rms vs run
χ² / ndf 2.181e+04 / 80
p0 274.8 ± 0.2215
420
400
380
360
340
320
300
280
260
240
220

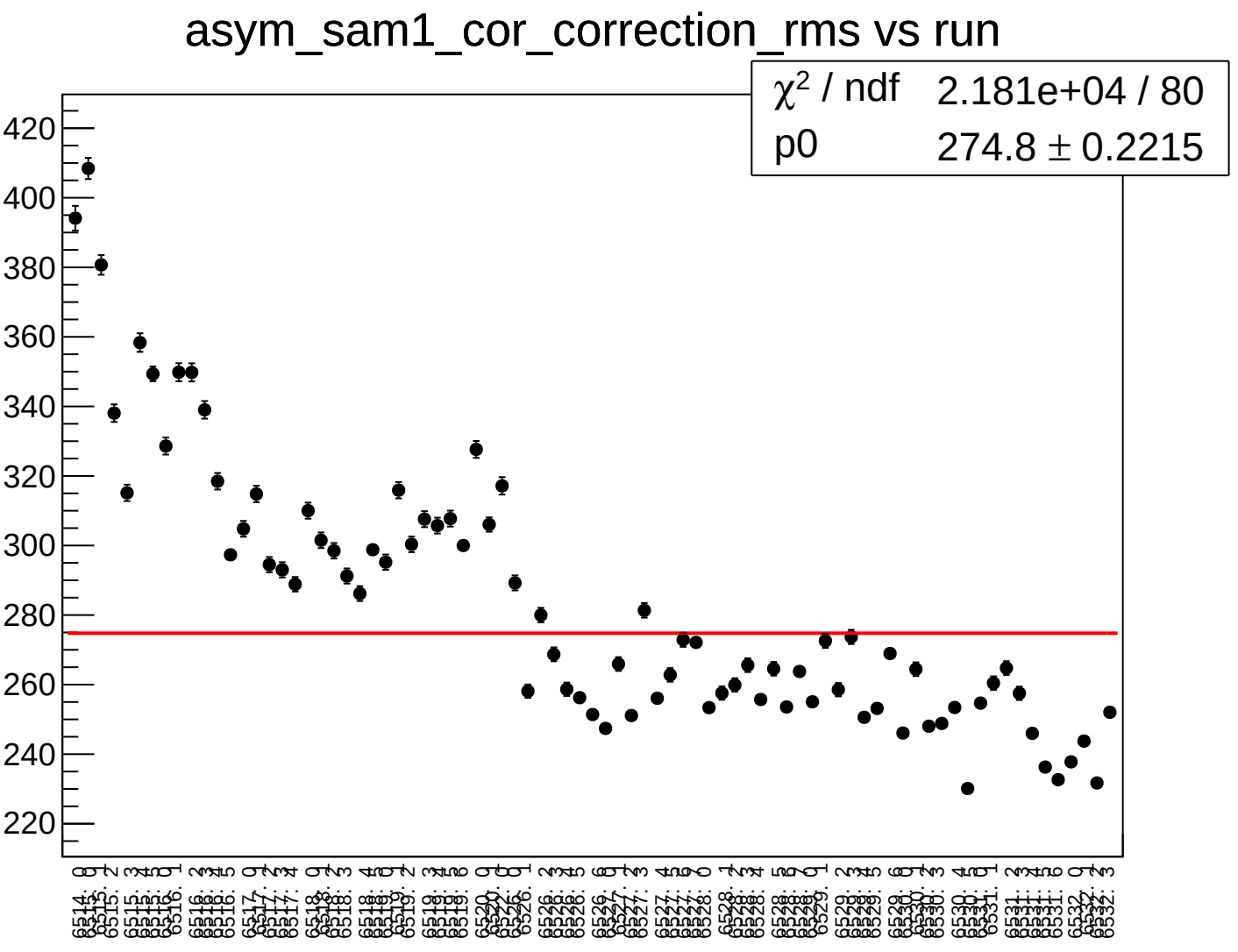

cor_asym_sam1_mean vs run
χ² / ndf 66.43 / 80
p0 −99.11± 79.87
3000
2000
1000
0
−1000
−2000
pull
Entries 81
Mean −328
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

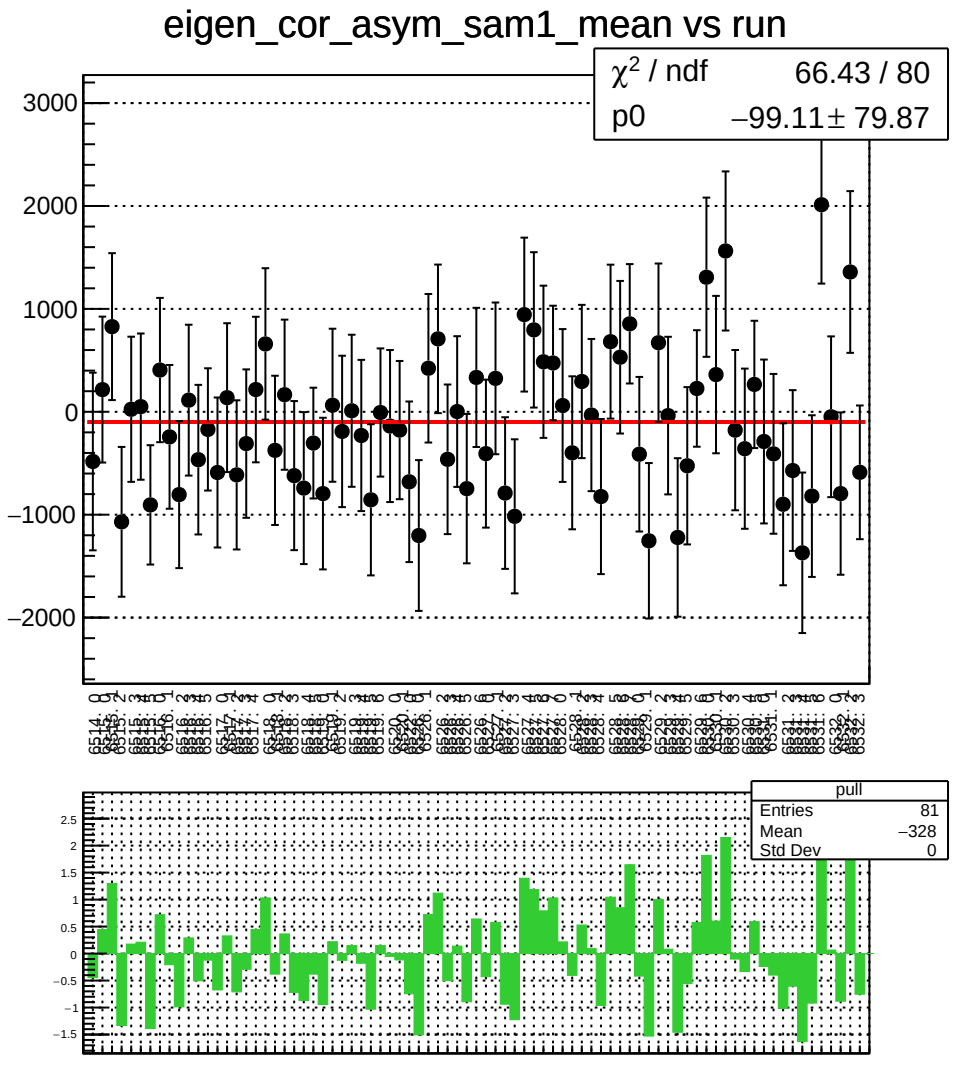

pull1D
Entries 81
Mean −0.007432
Std Dev 0.9056
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

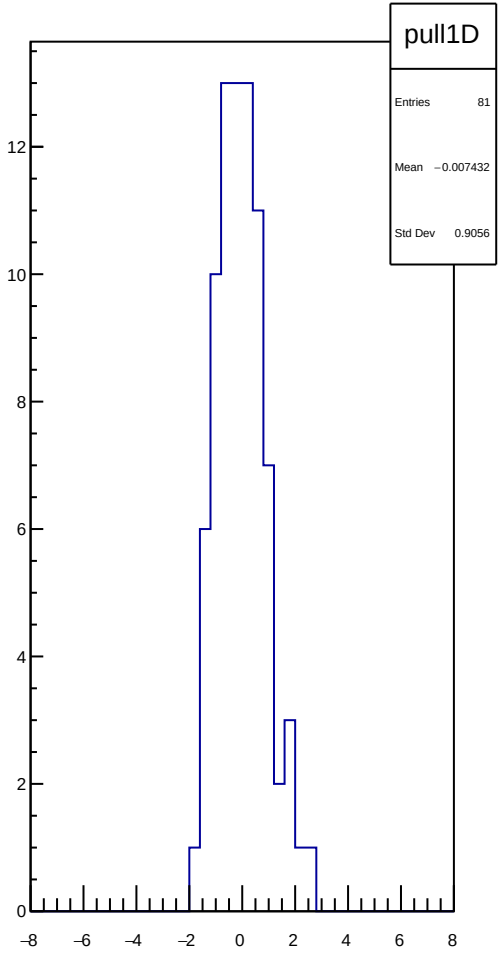

cor_asym_sam1_rms vs run
χ² / ndf 1548 / 80
p0 70.53 ± 0.05648
76
74
72
70
68
66

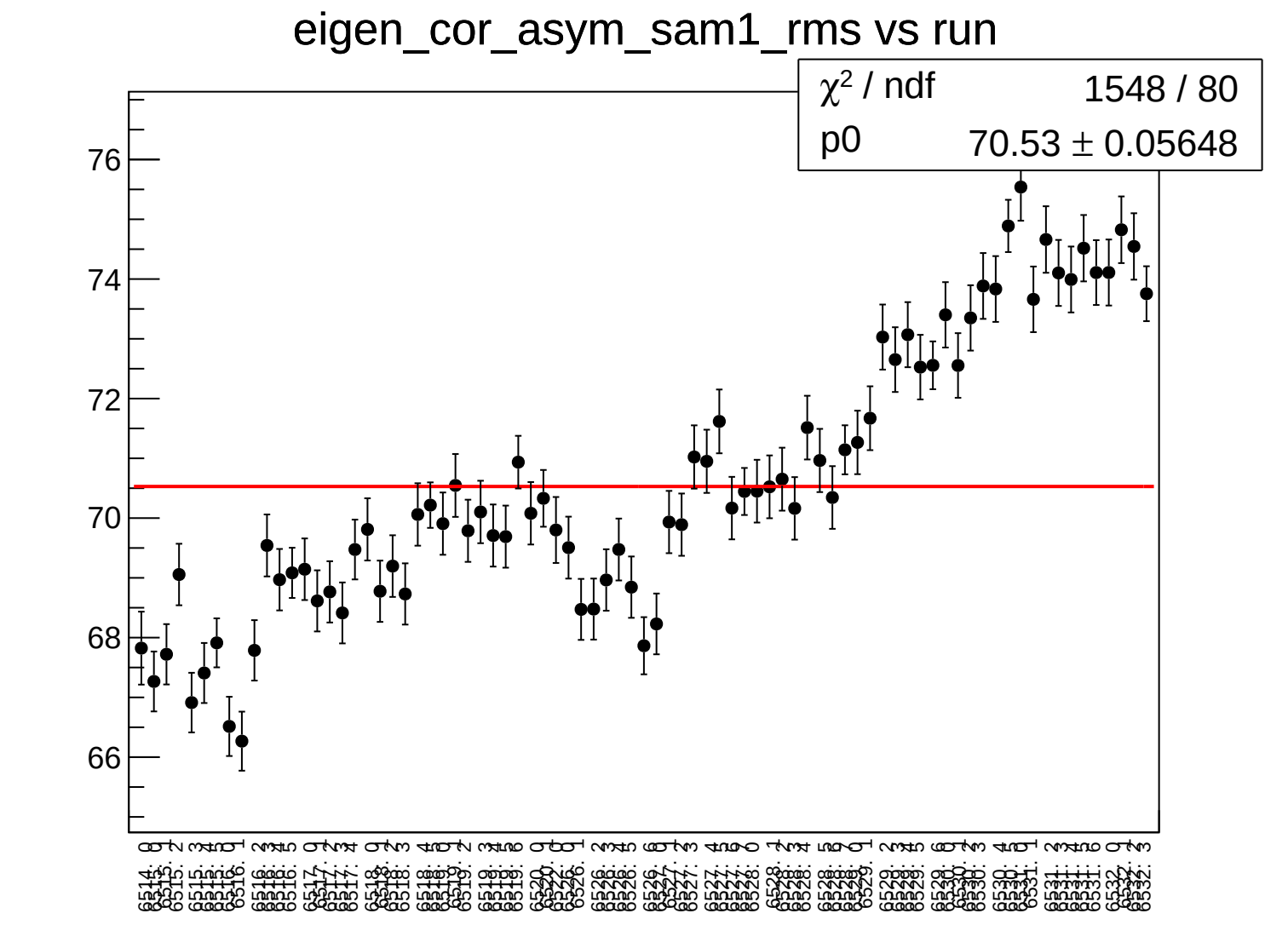

asym_sam1_cor_correction_mean vs run
χ² / ndf 63.06 / 80
p0 535 ± 313.2
pull
Entries 81
Mean 17.61
Std Dev 55.56

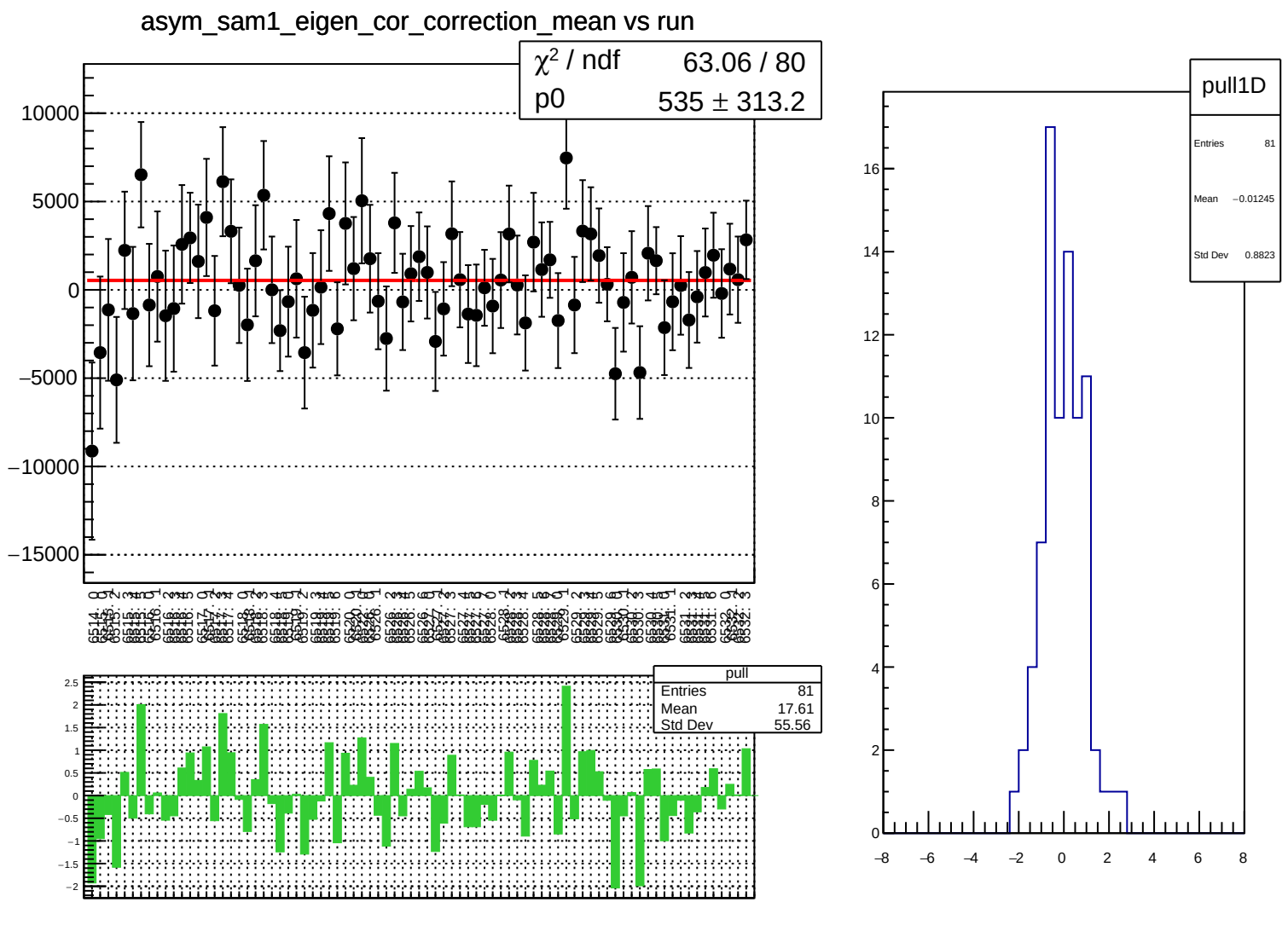

pull1D
Entries 81
Mean −0.01245
Std Dev 0.8823

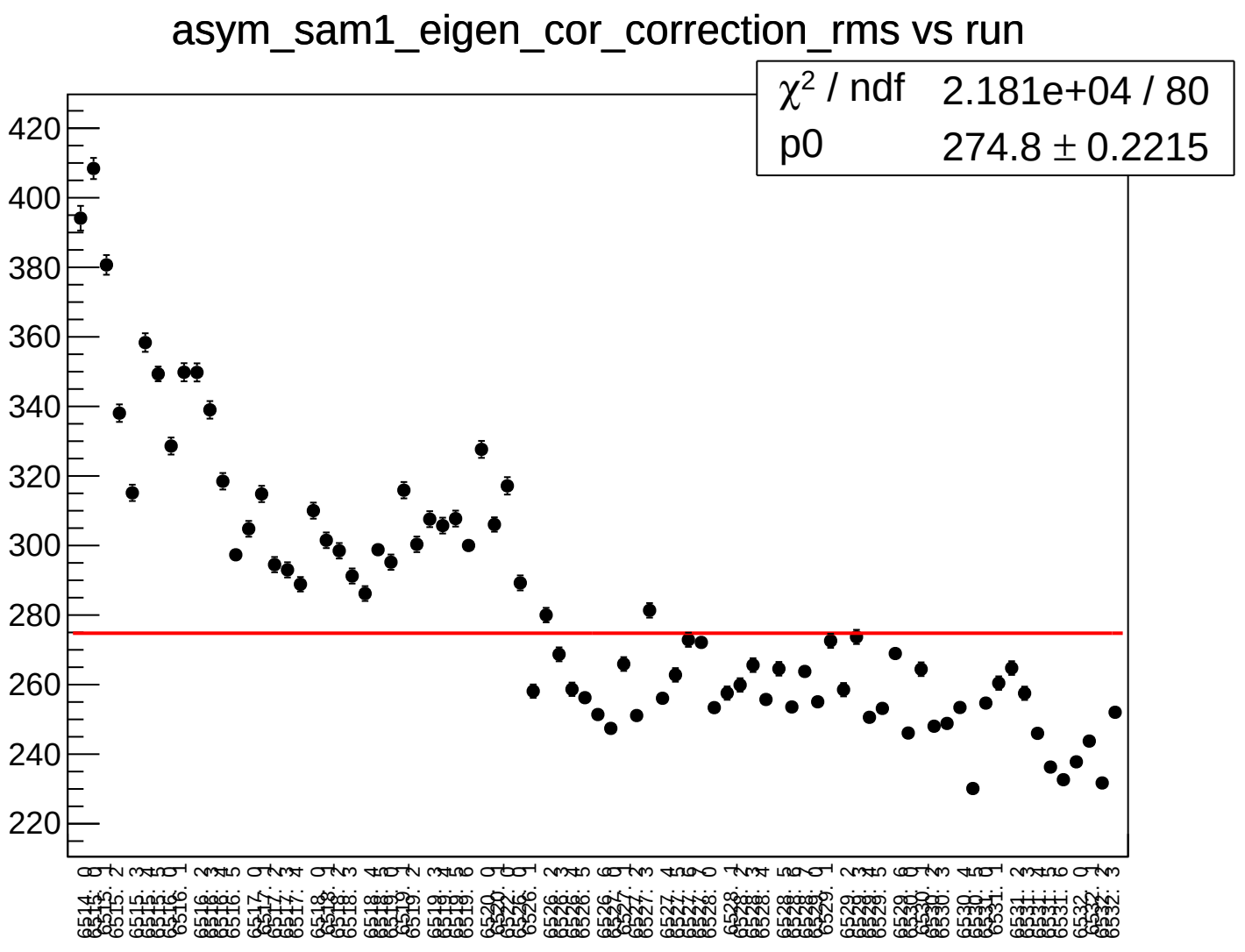

asym_sam1_cor_correction_rms vs run
χ² / ndf 2.181e+04 / 80
p0 274.8 ± 0.2215
420
400
380
360
340
320
300
280
260
240
220

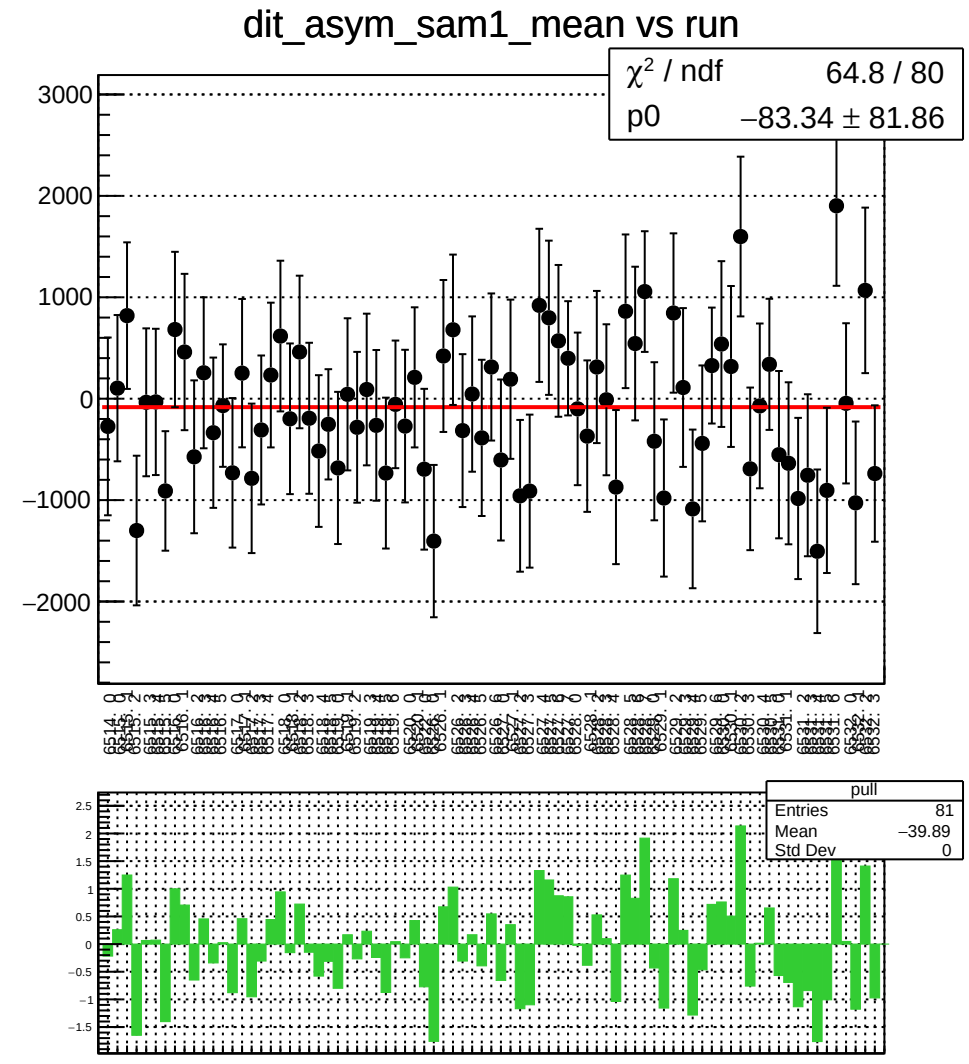

eigen_cor_asym_sam1_mean vs run
χ² / ndf 66.43 / 80
p0 −99.11± 79.87
3000
2000
1000
0
−1000
−2000
pull
Entries 81
Mean −328
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

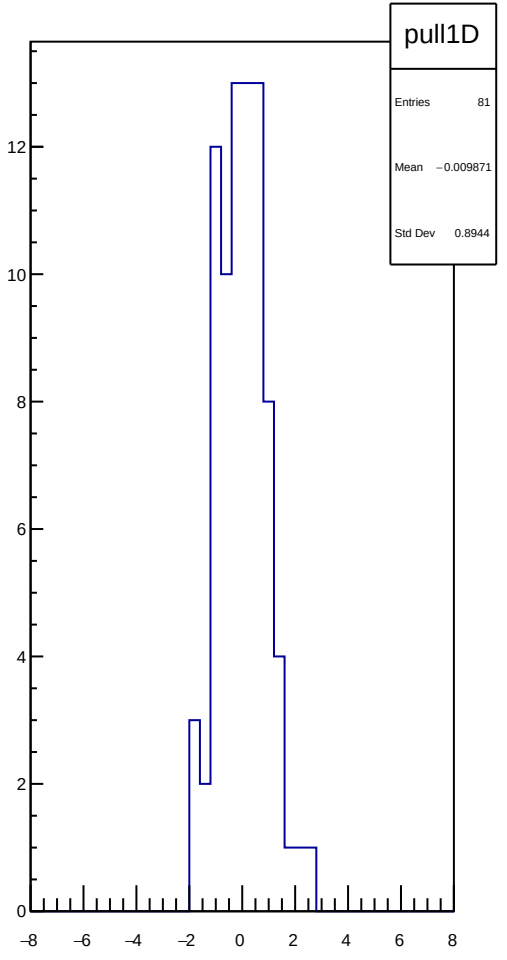

pull1D
Entries 81
Mean −0.007432
Std Dev 0.9056
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

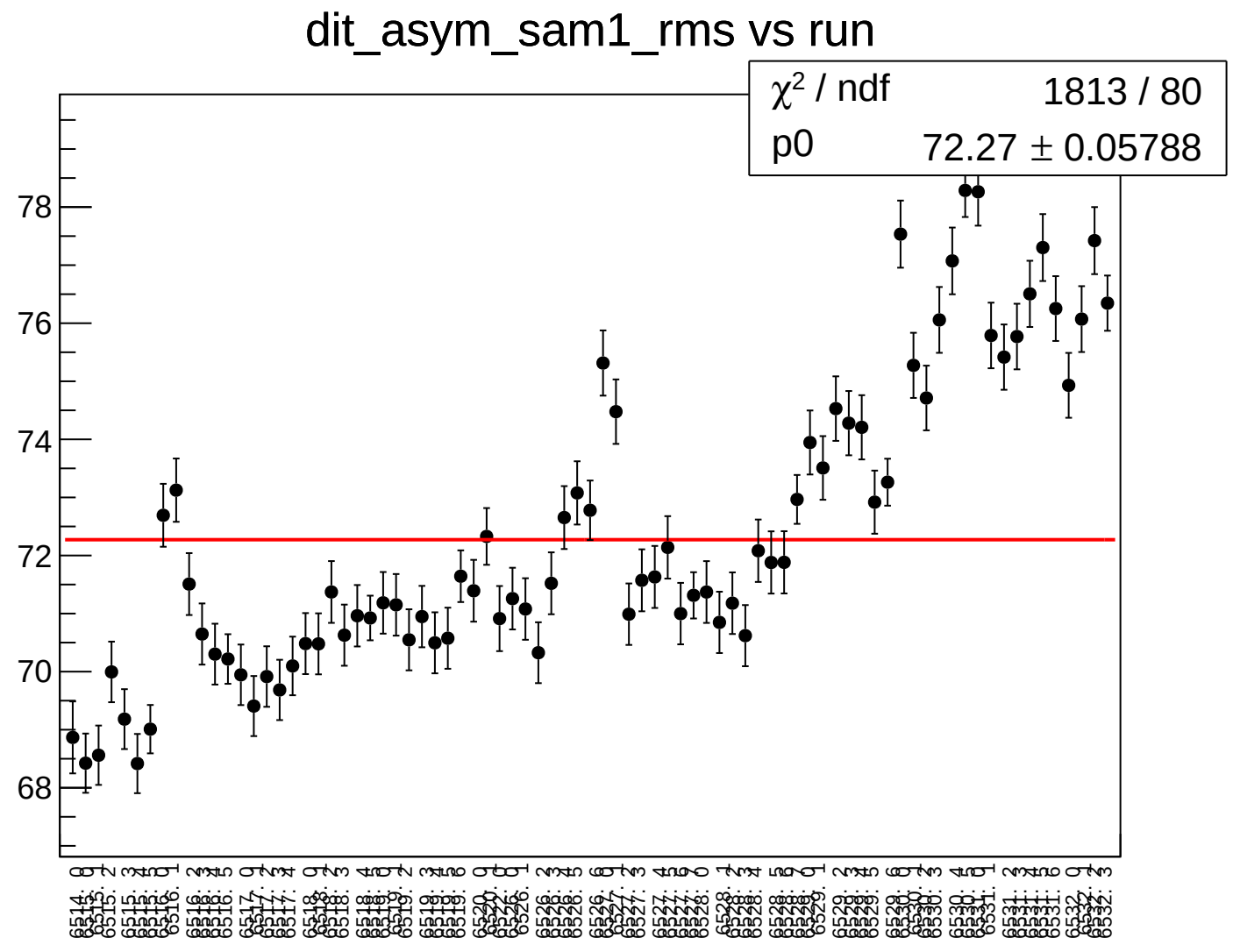

eigen_cor_asym_sam1_rms vs run
χ² / ndf 1548 / 80
p0 70.53 ± 0.05648
76
74
72
70
68
66

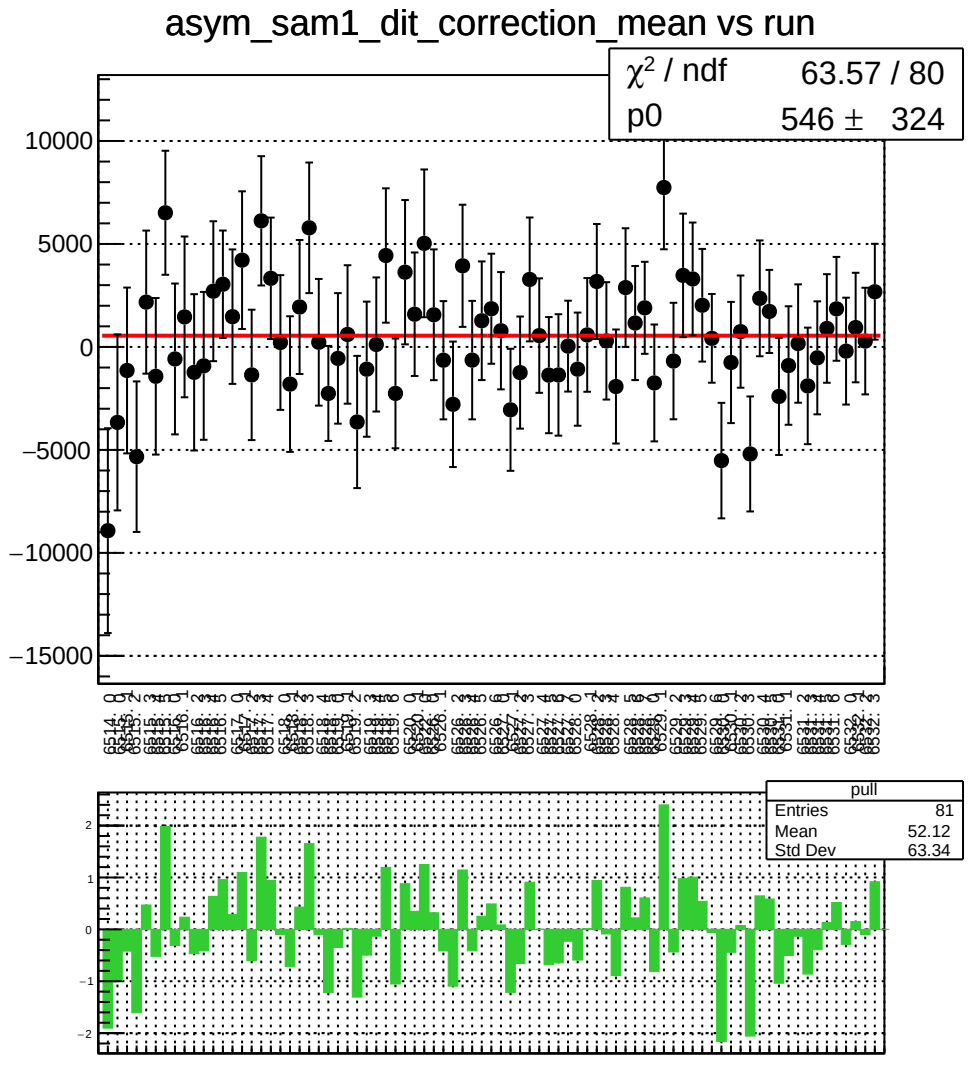

asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 63.06 / 80
p0 535 ± 313.2
pull
Entries 81
Mean 17.61
Std Dev 55.56
pull1D
Entries 81
Mean −0.01245
Std Dev 0.8823

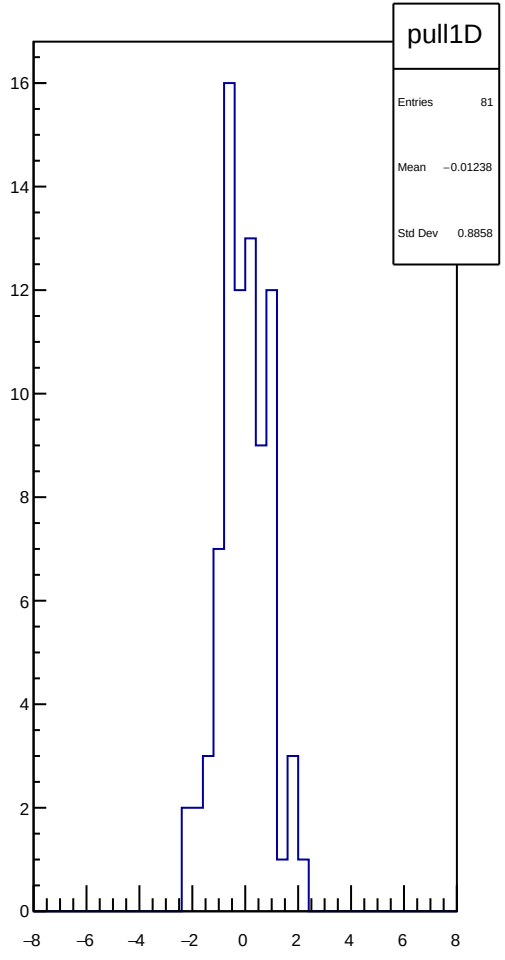

asym_sam1_eigen_cor_correction_rms vs run
χ² / ndf 2.181e+04 / 80
p0 274.8 ± 0.2215
420
400
380
360
340
320
300
280
260
240
220

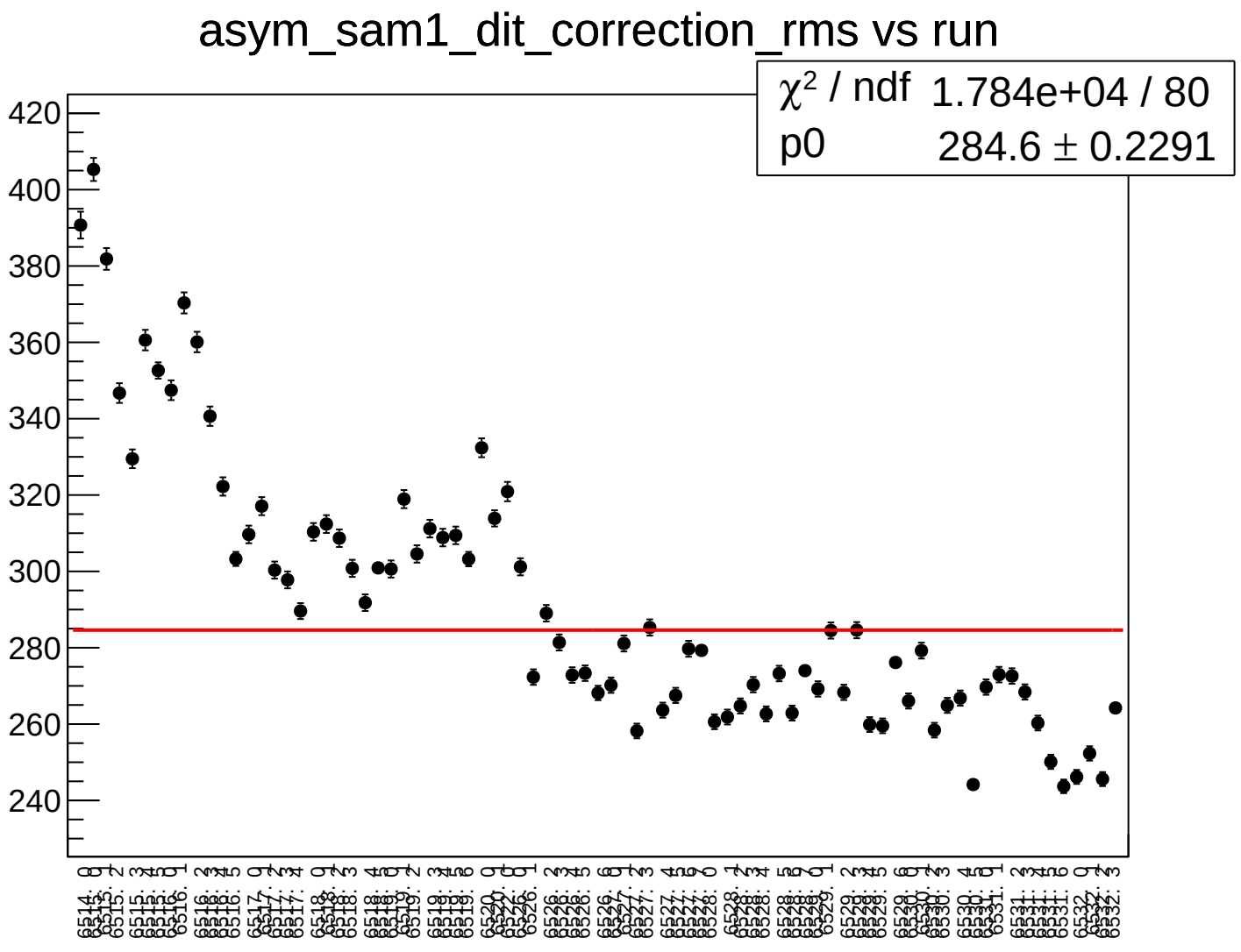

dit_asym_sam1_mean vs run
χ² / ndf 64.8 / 80
p0 −83.34 ± 81.86
3000
2000
1000
0
−1000
−2000
pull
Entries 81
Mean −39.89
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

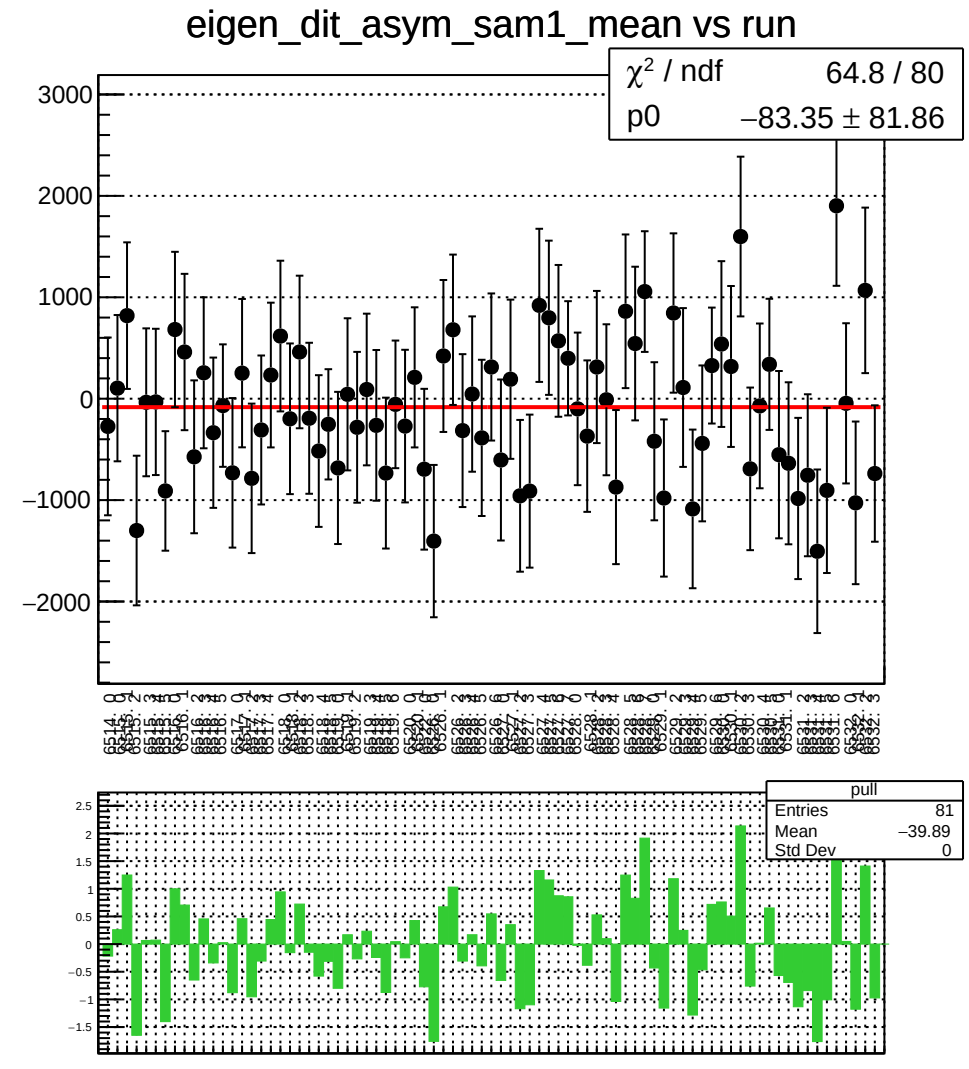

pull1D
Entries 81
Mean −0.009871
Std Dev 0.8944
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

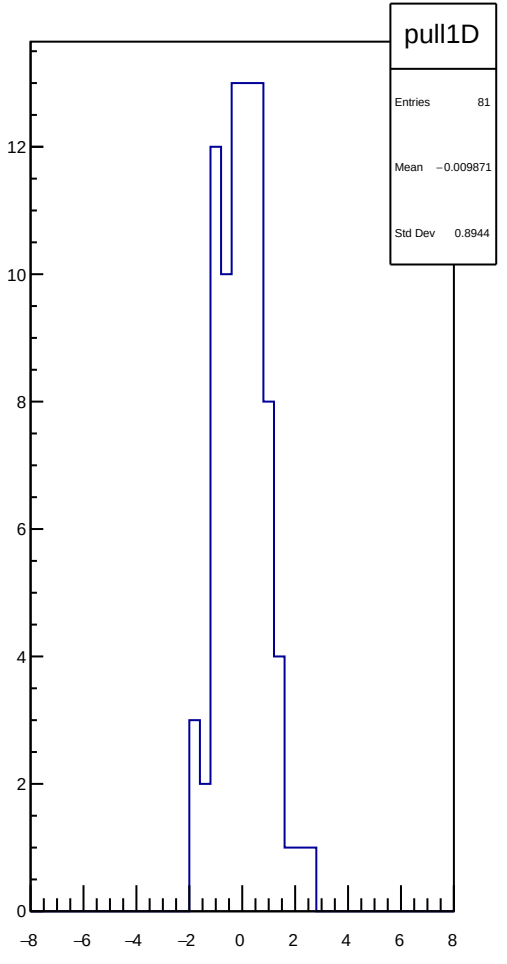

dit_asym_sam1_rms vs run
χ² / ndf 1813 / 80
p0 72.27 ± 0.05788
78
76
74
72
70
68

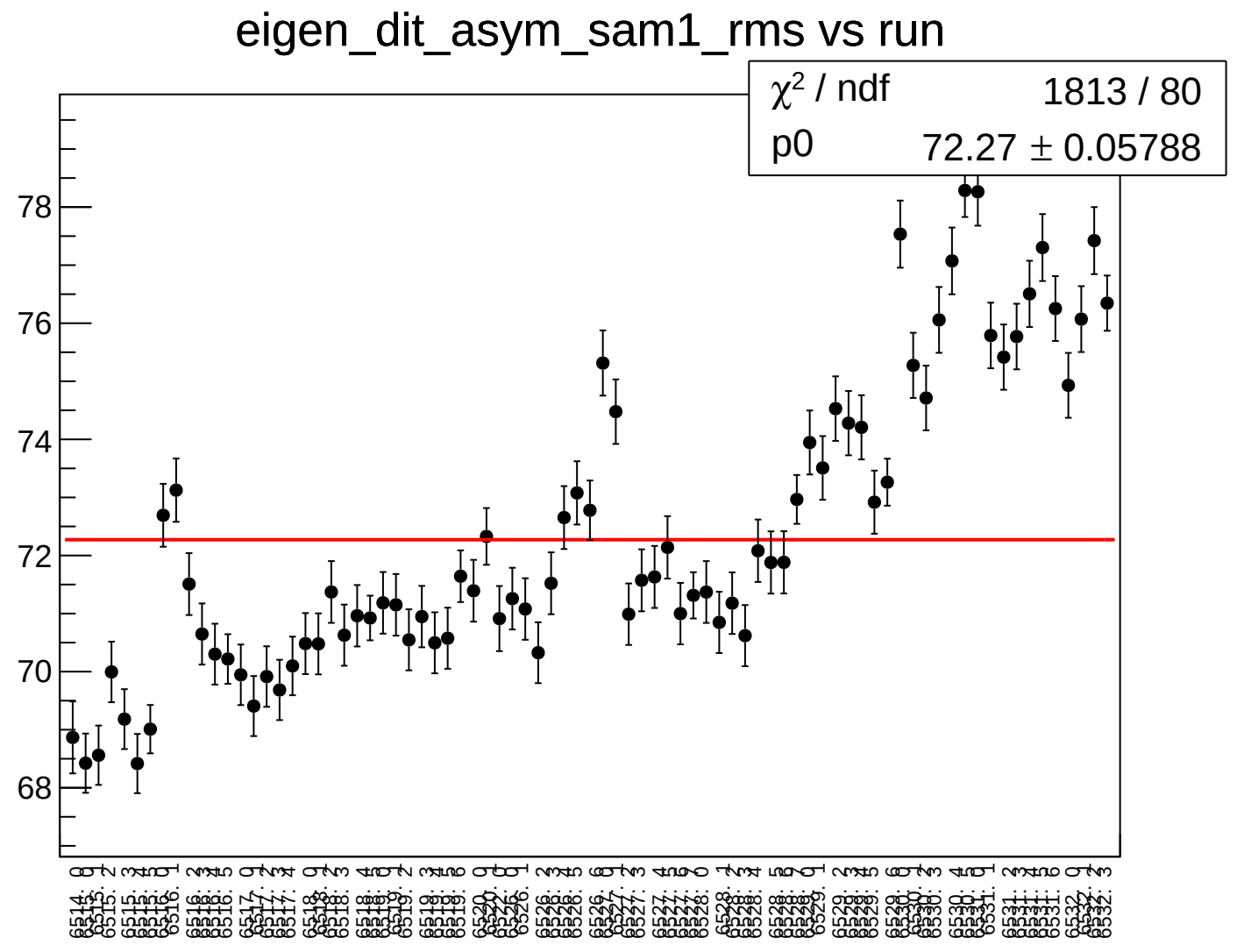

asym_sam1_dit_correction_mean vs run
χ² / ndf 63.57 / 80
p0 546 ± 324
pull
Entries 81
Mean 52.12
Std Dev 63.34

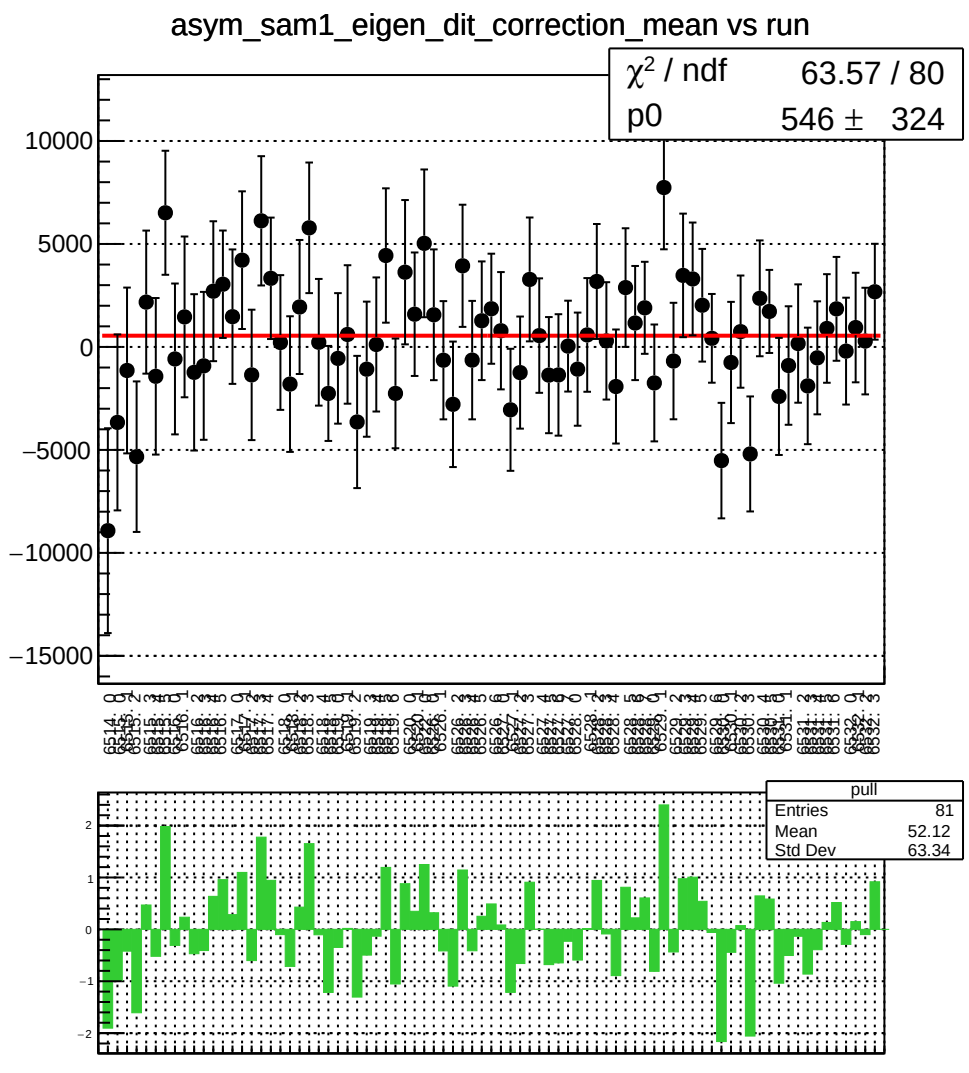

pull1D
Entries 81
Mean −0.01238
Std Dev 0.8858

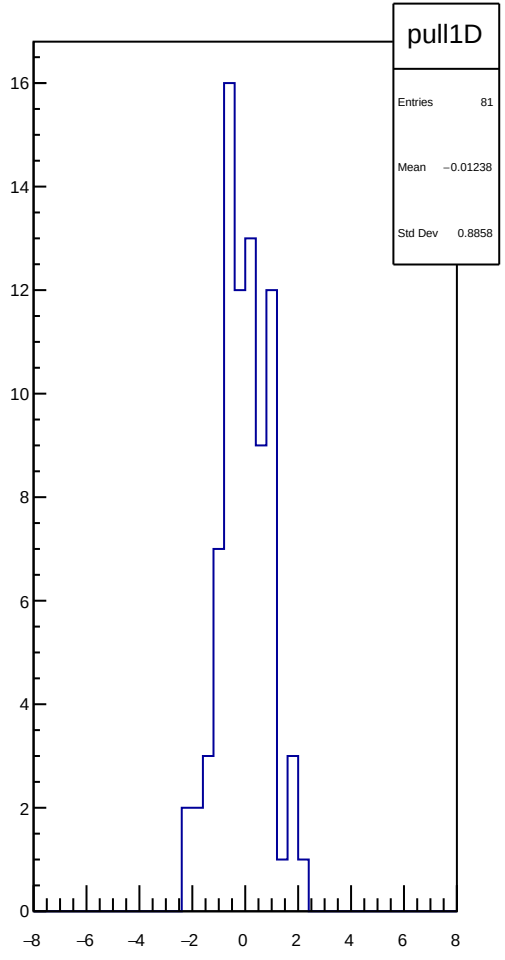

asym_sam1_dit_correction_rms vs run
χ² / ndf 1.784e+04 / 80
p0 284.6 ± 0.2291
420
400
380
360
340
320
300
280
260
240

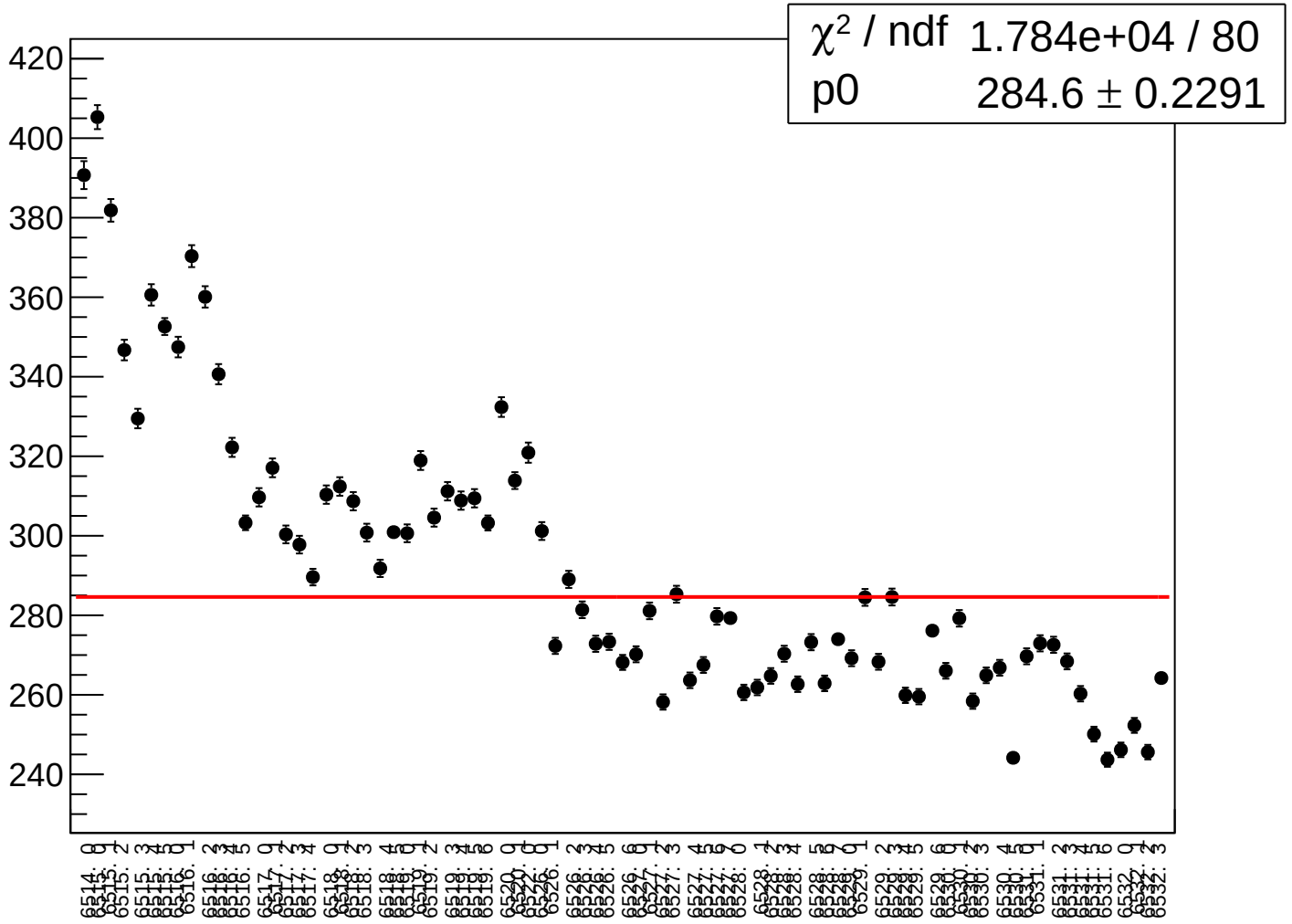

eigen_dit_asym_sam1_mean vs run
χ² / ndf 64.8 / 80
p0 −83.35 ± 81.86
3000
2000
1000
0
−1000
−2000
pull
Entries 81
Mean −39.89
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

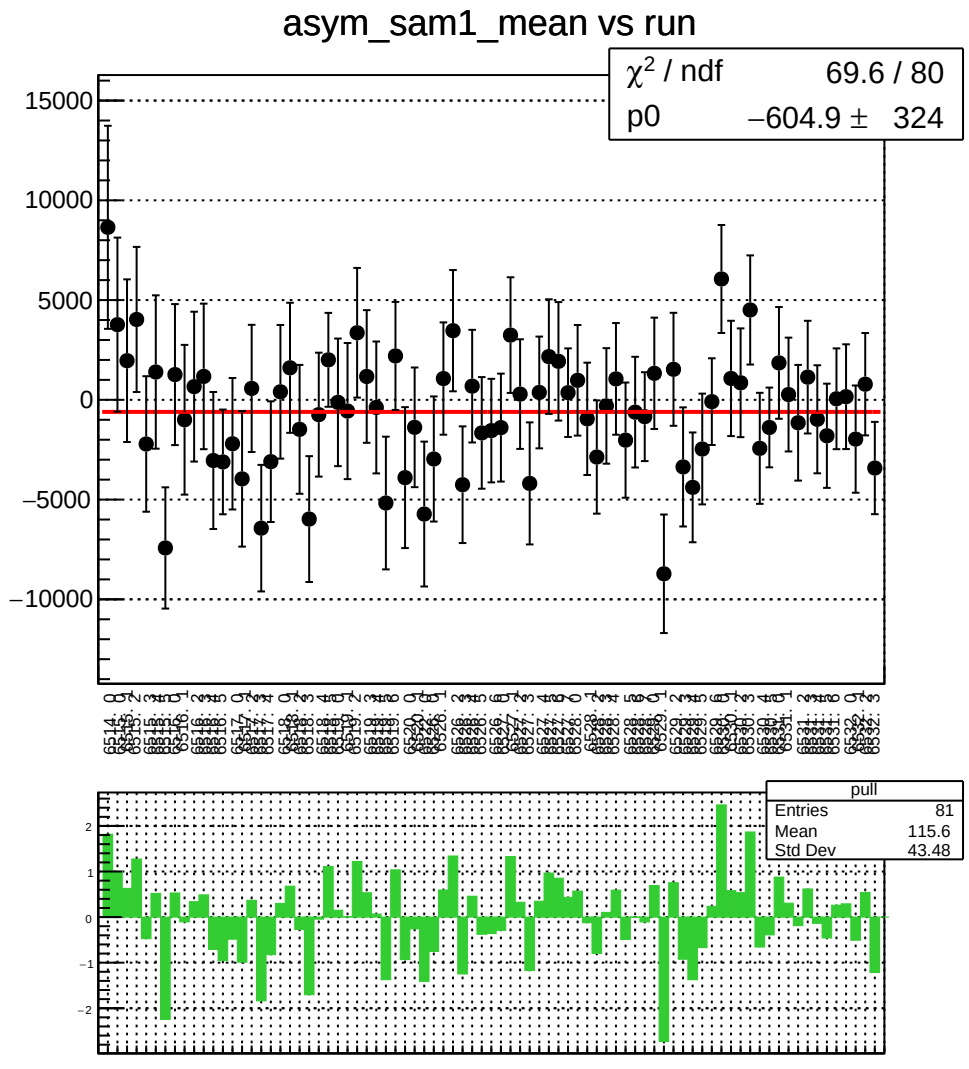

pull1D
Entries 81
Mean −0.009871
Std Dev 0.8944
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

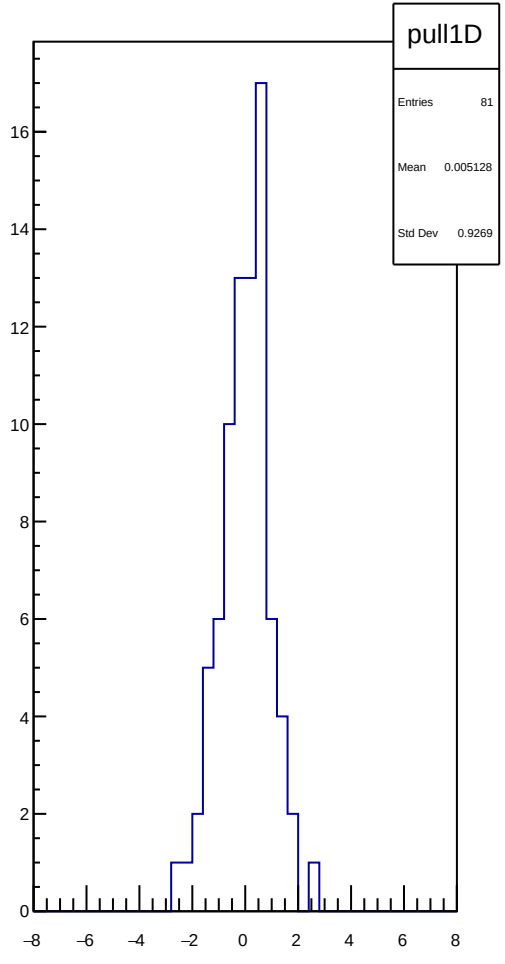

eigen_dit_asym_sam1_rms vs run
χ² / ndf 1813 / 80
p0 72.27 ± 0.05788
78
76
74
72
70
68

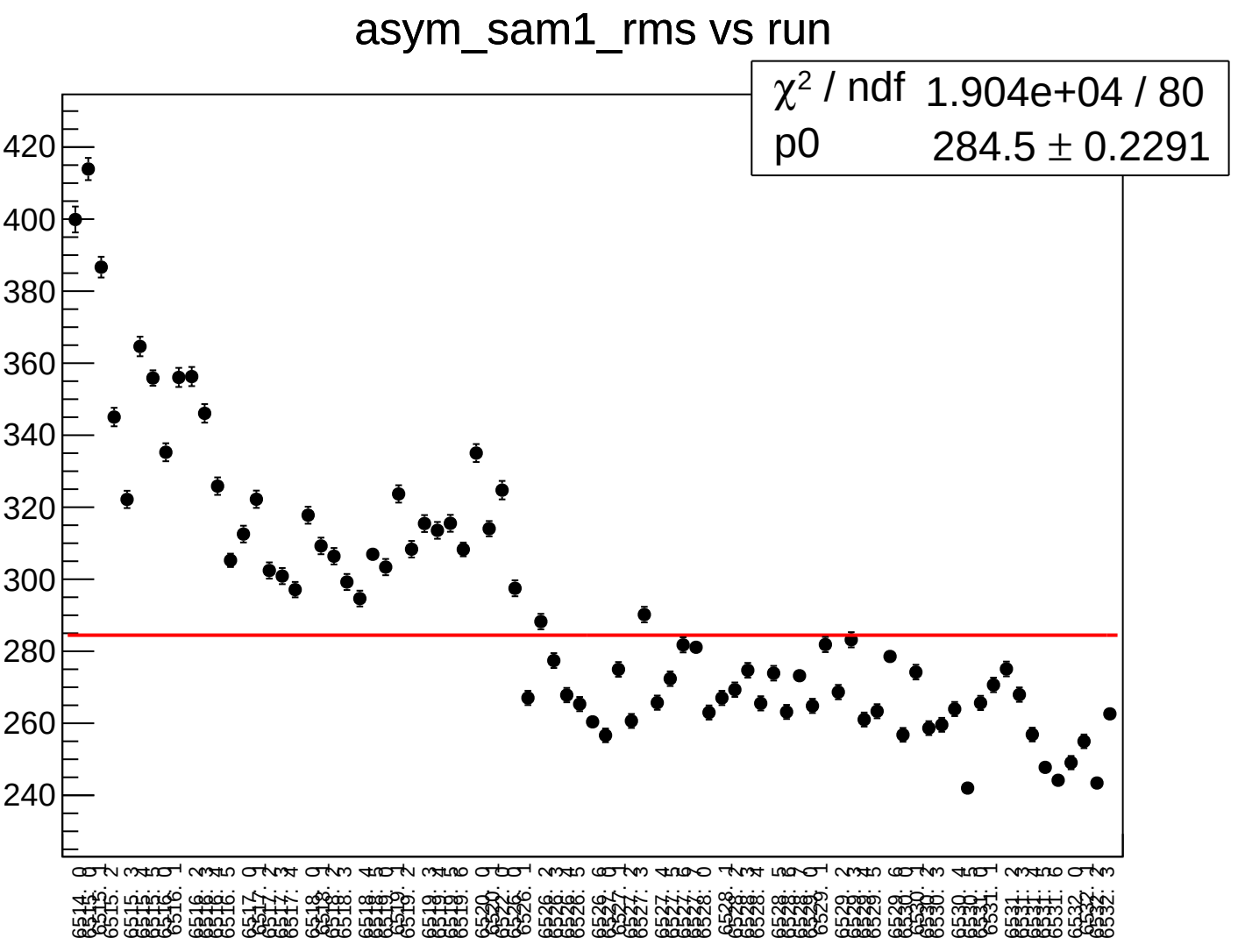

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 63.57 / 80
p0 546 ± 324
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean 52.12
Std Dev 63.34
2
1
0
−1
−2

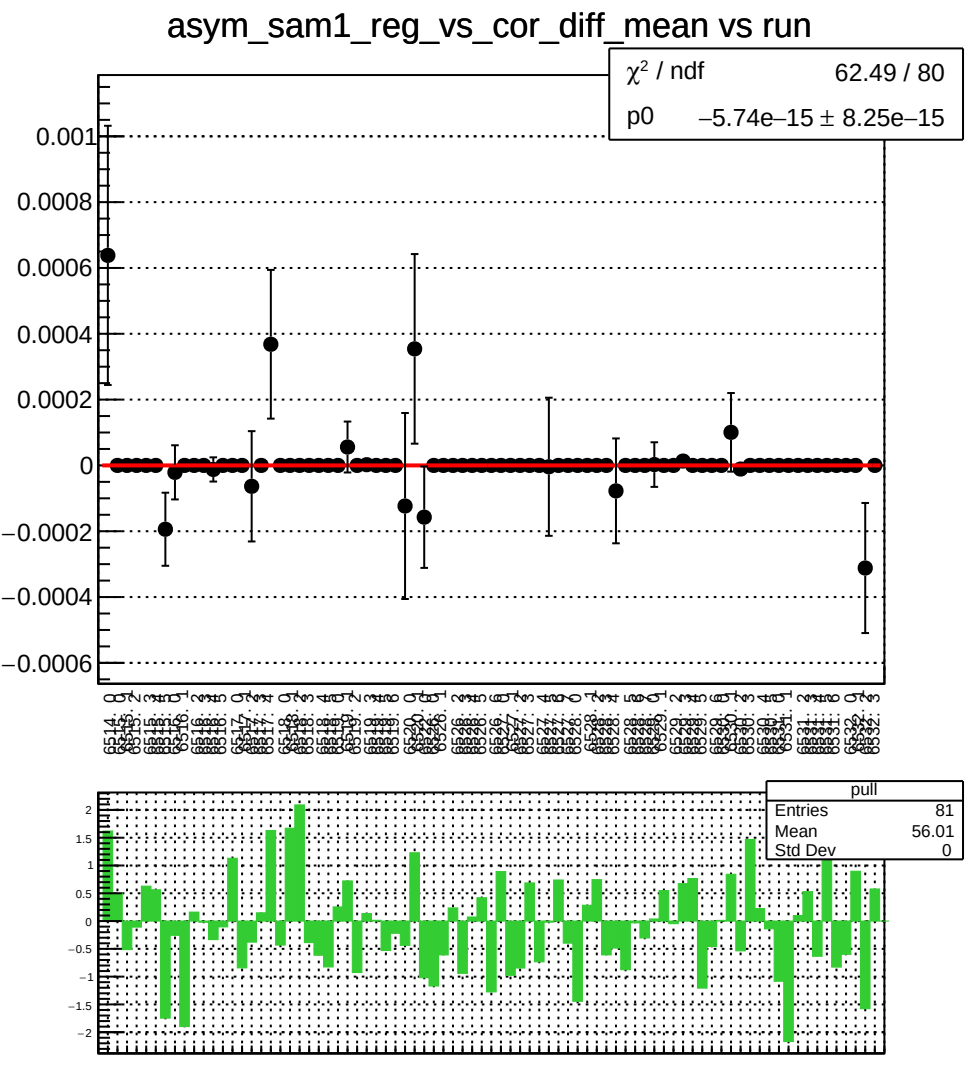

pull1D
Entries 81
Mean −0.01238
Std Dev 0.8858
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

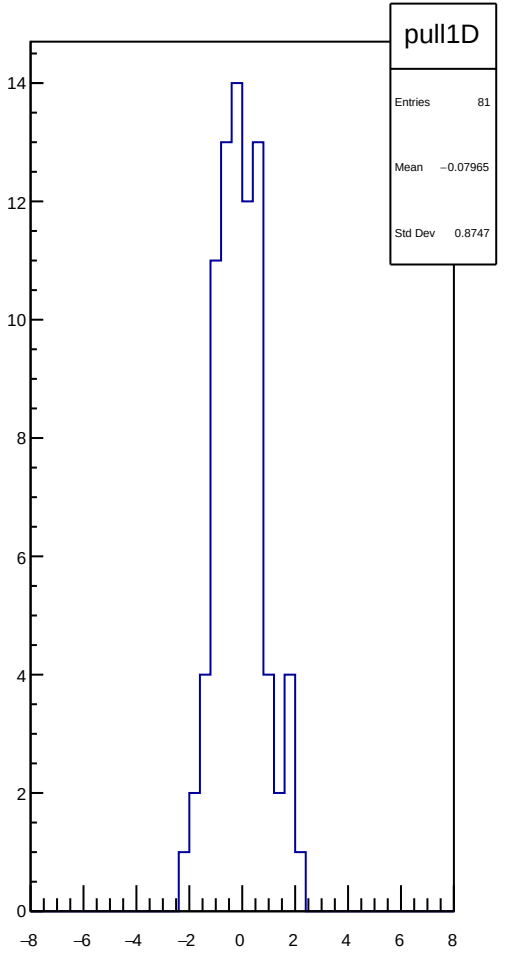

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 1.784e+04 / 80
p0 284.6 ± 0.2291
420
400
380
360
340
320
300
280
260
240

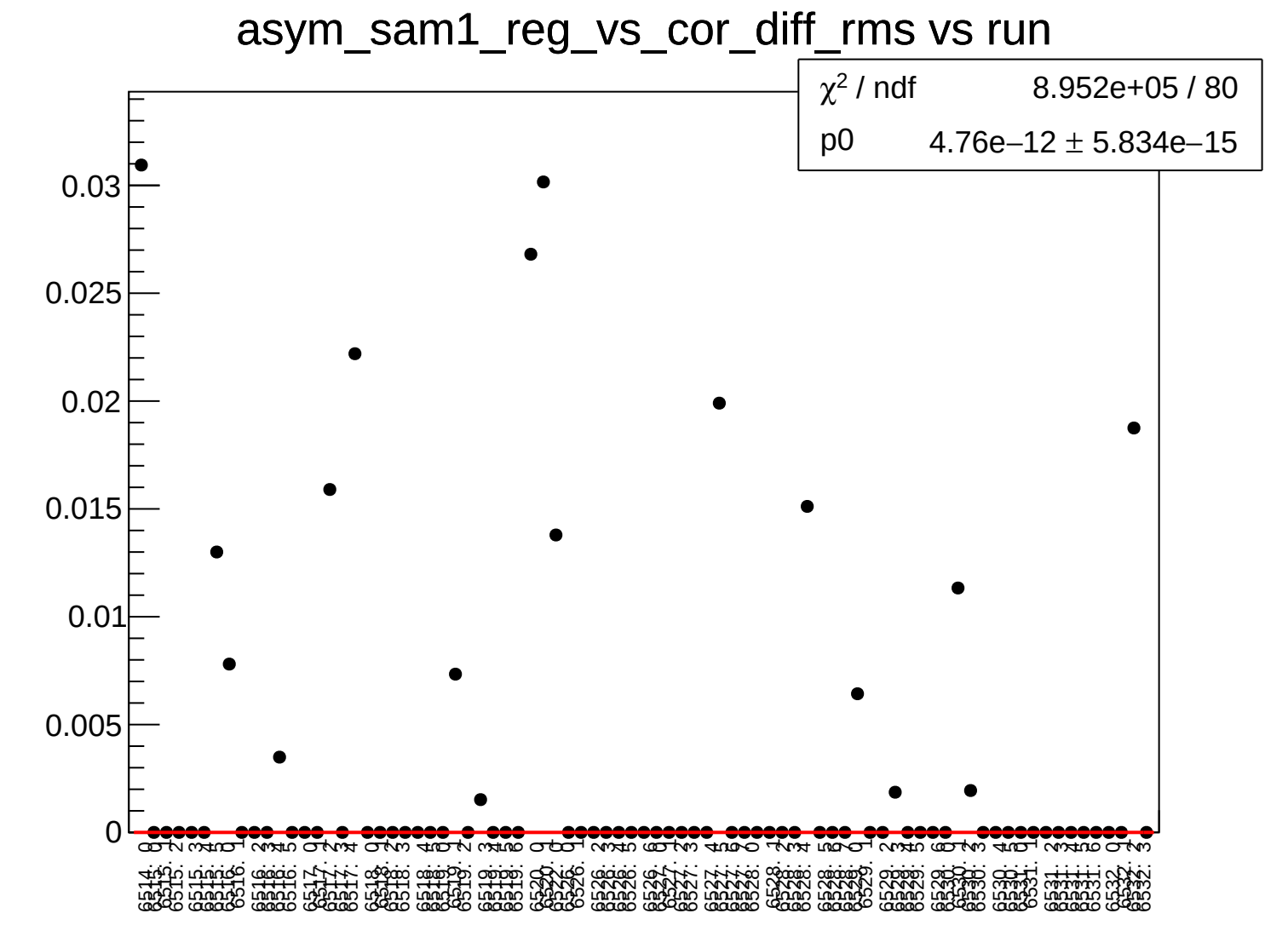

asym_sam1_mean vs run
χ² / ndf 69.6 / 80
p0 −604.9 ± 324
15000
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 115.6
Std Dev 43.48
2
1
0
−1
−2

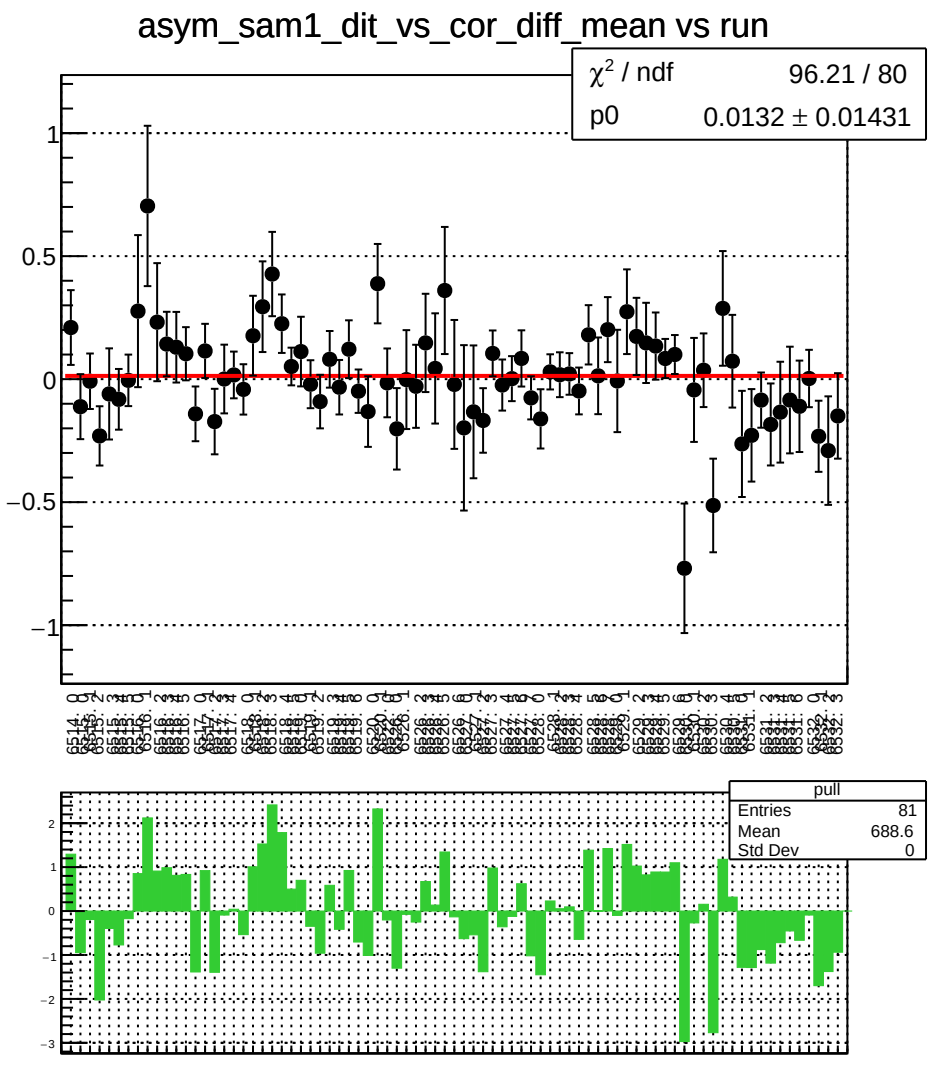

pull1D
Entries 81
Mean 0.005128
Std Dev 0.9269
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

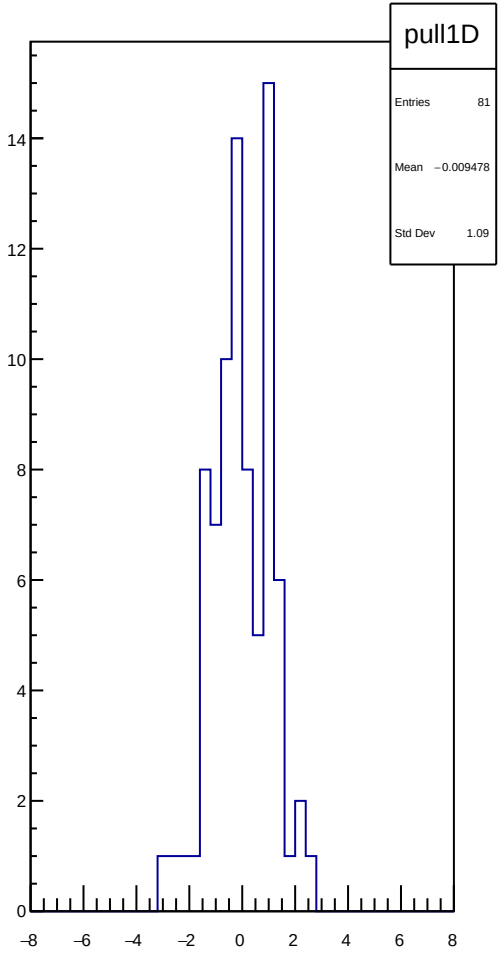

asym_sam1_rms vs run
χ² / ndf 1.904e+04 / 80
p0 284.5 ± 0.2291
420
400
380
360
340
320
300
280
260
240

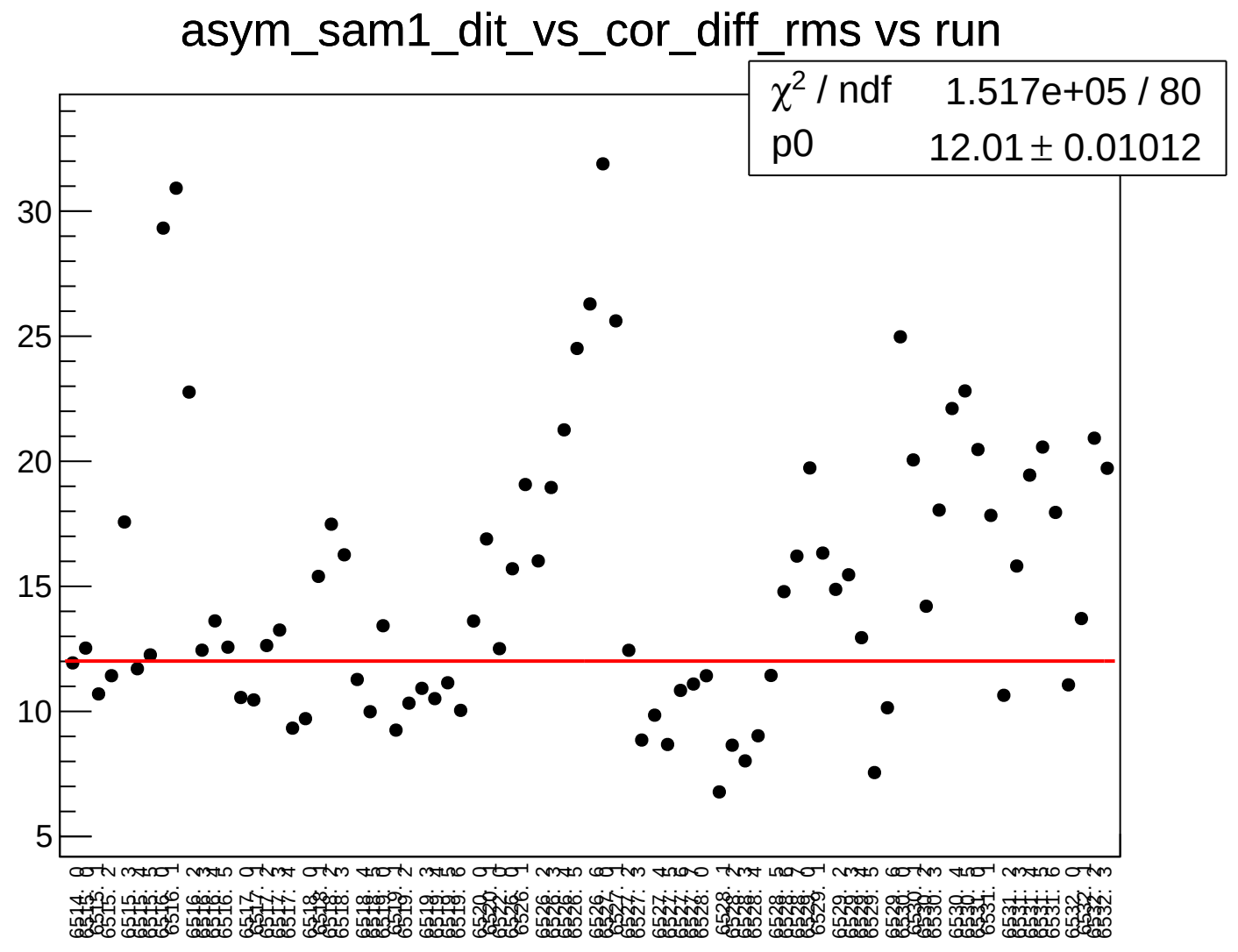

asym_sam1_reg_vs_cor_diff_mean vs run
χ² / ndf 62.49 / 80
p0 −5.74e−15 ± 8.25e−15
pull
Entries 81
Mean 56.01
Std Dev 0

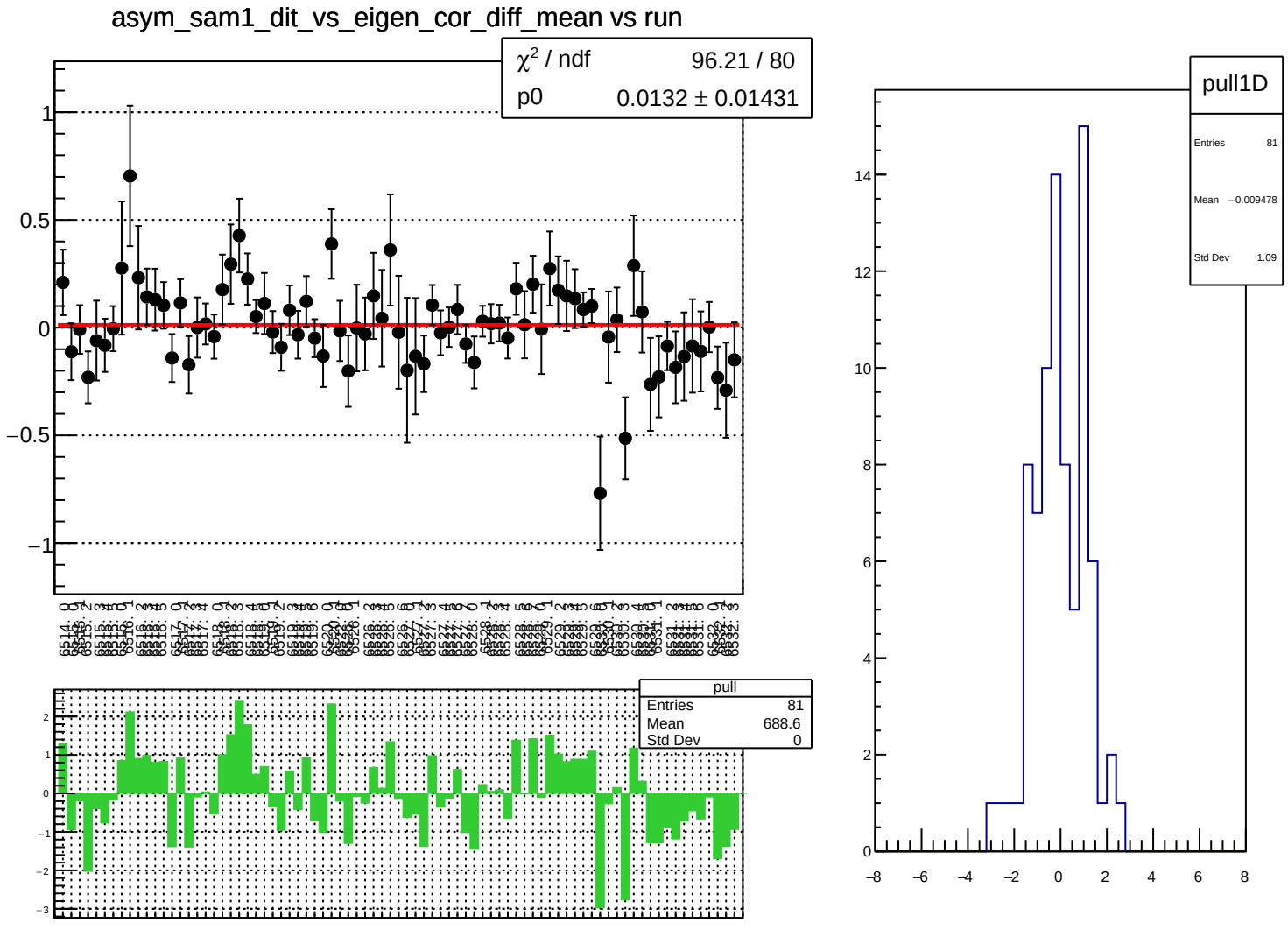

pull1D
Entries 81
Mean −0.07965
Std Dev 0.8747

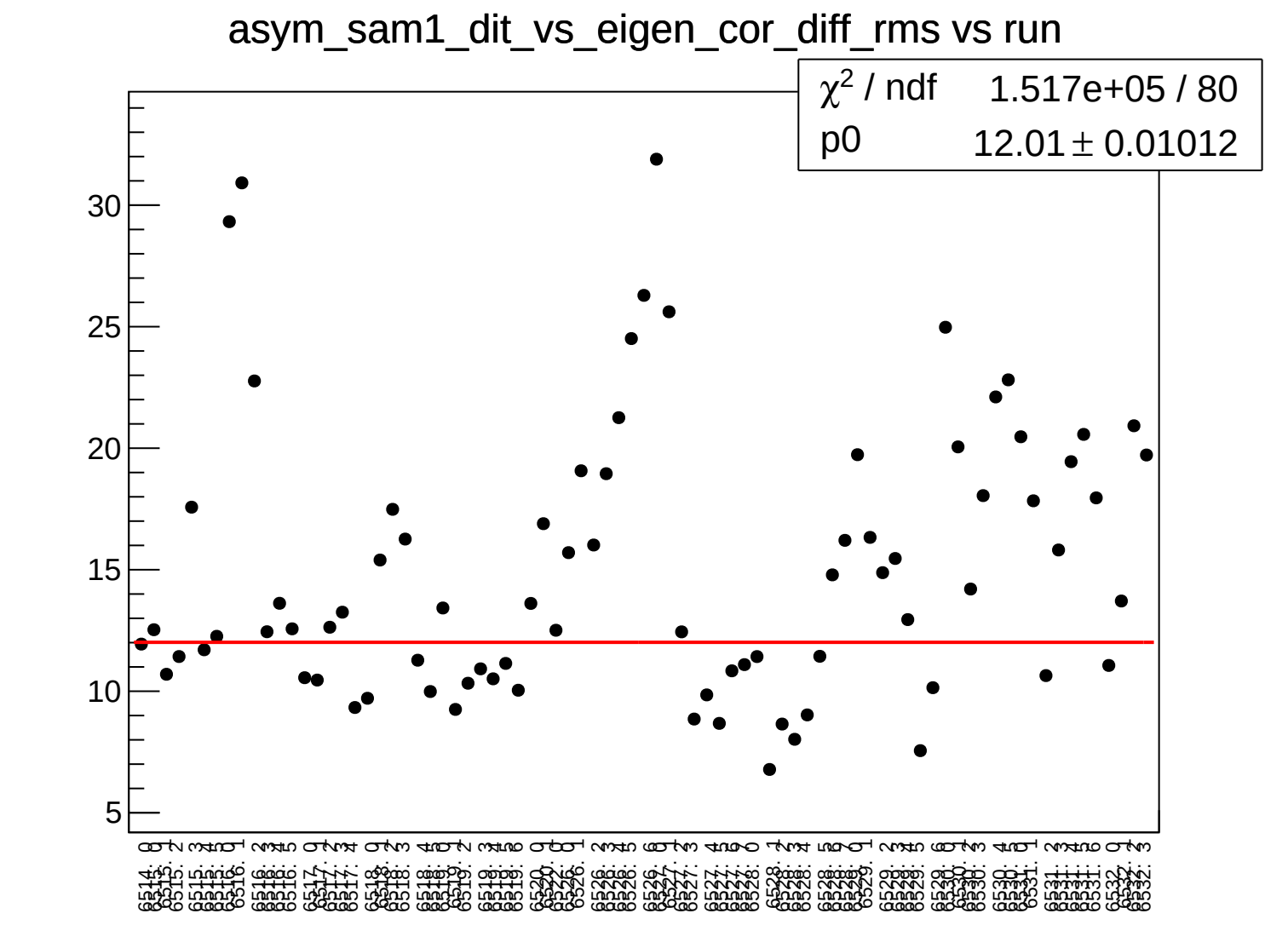

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 8.952e+05 / 80
p0 4.76e−12 ± 5.834e−15
0.03
0.025
0.02
0.015
0.01
0.005
0

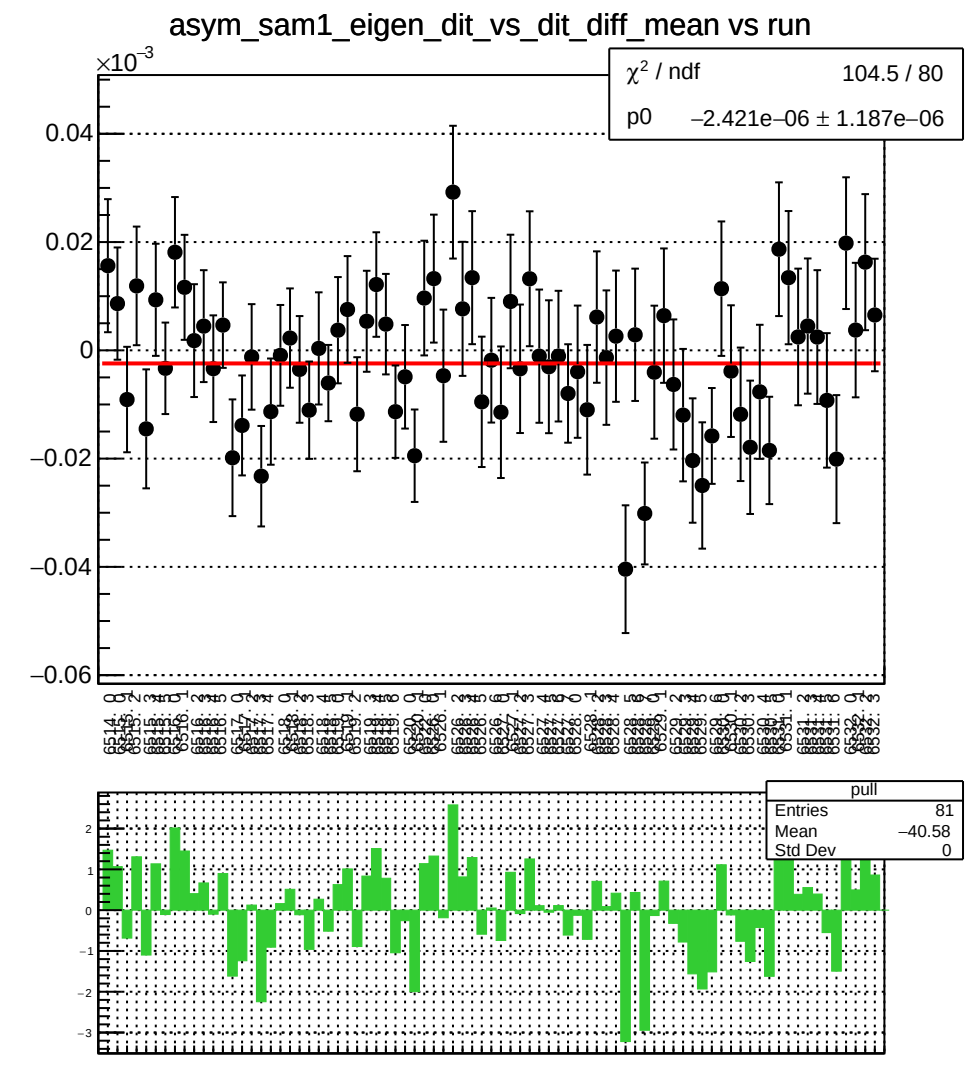

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 96.21 / 80
p0 0.0132 ± 0.01431
pull
Entries 81
Mean 688.6
Std Dev 0

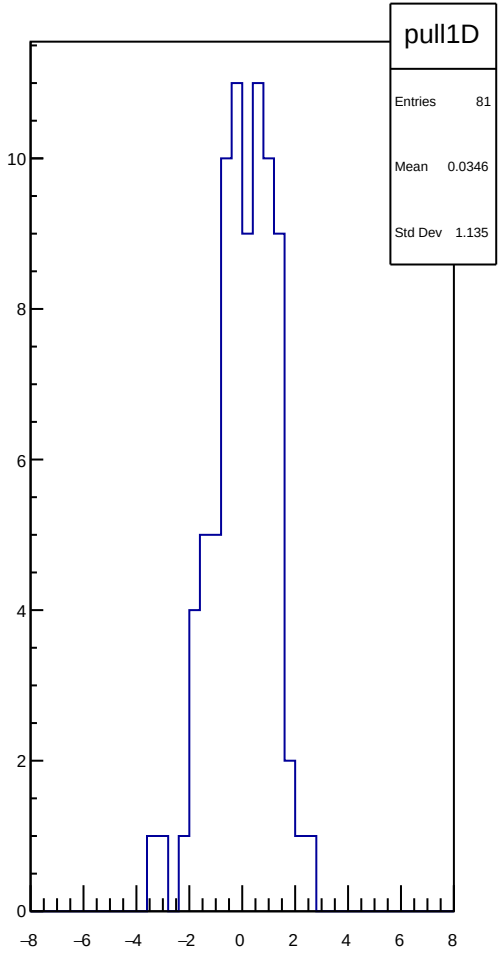

pull1D
Entries 81
Mean −0.009478
Std Dev 1.09

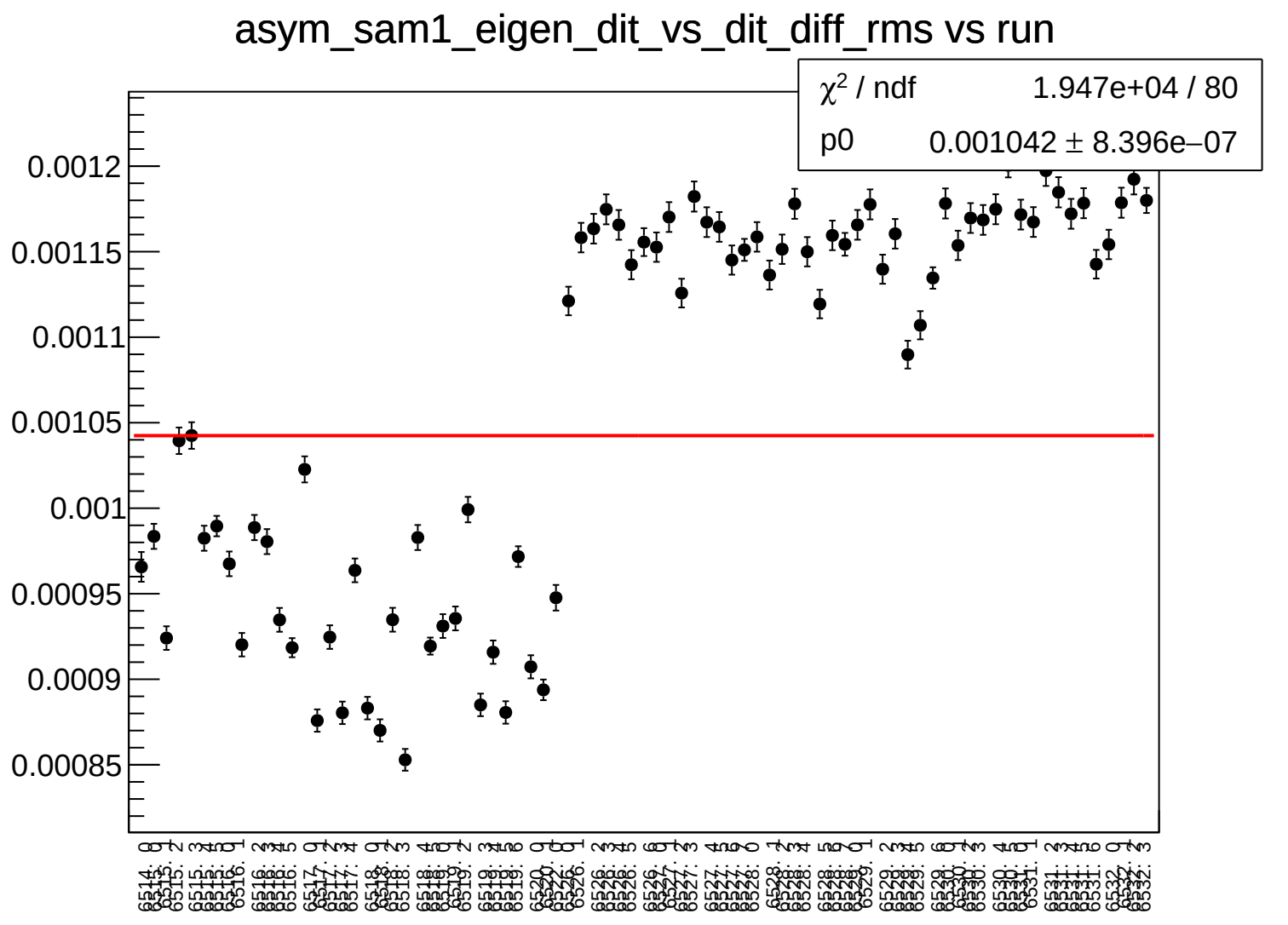

asym_sam1_dit_vs_cor_diff_rms vs run
χ² / ndf 1.517e+05 / 80
p0 12.01 ± 0.01012
30
25
20
15
10
5

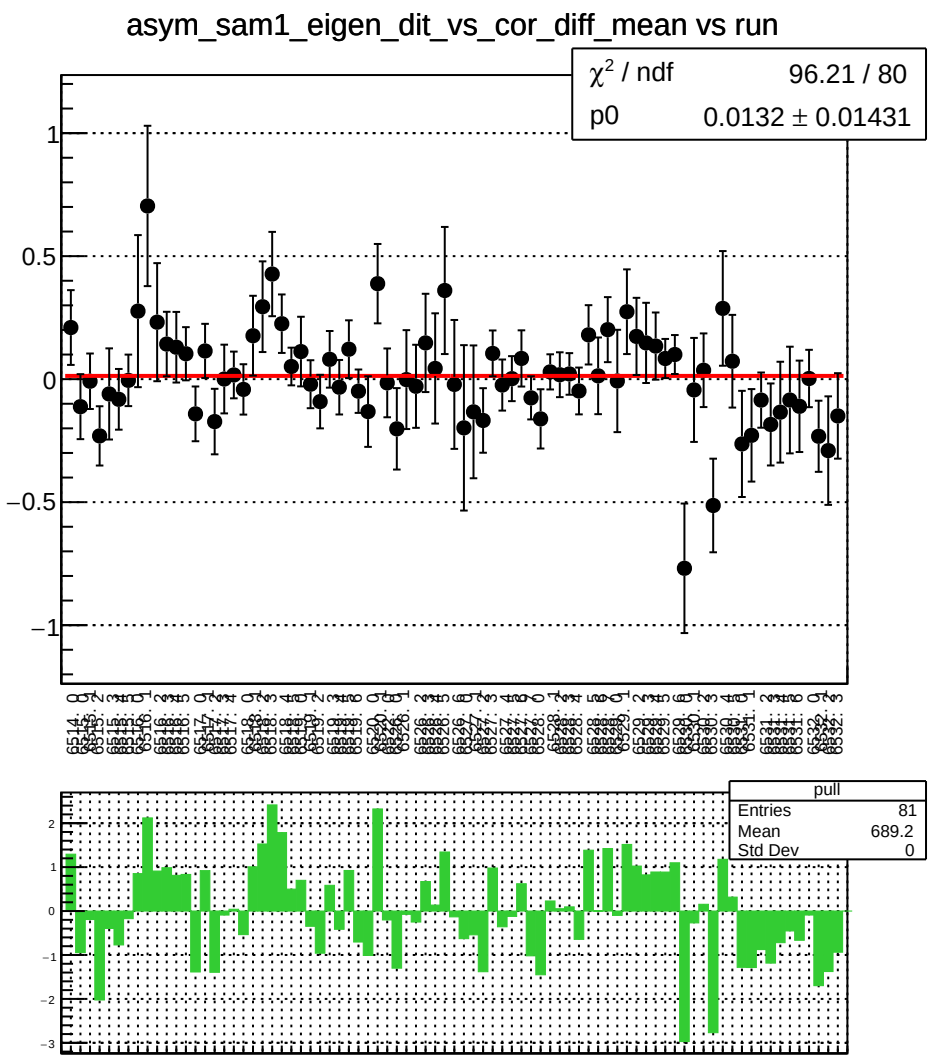

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ^2 / ndf 96.21 / 80
p0 0.0132 ± 0.01431
pull
Entries 81
Mean 688.6
Std Dev 0
pull1D
Entries 81
Mean −0.009478
Std Dev 1.09

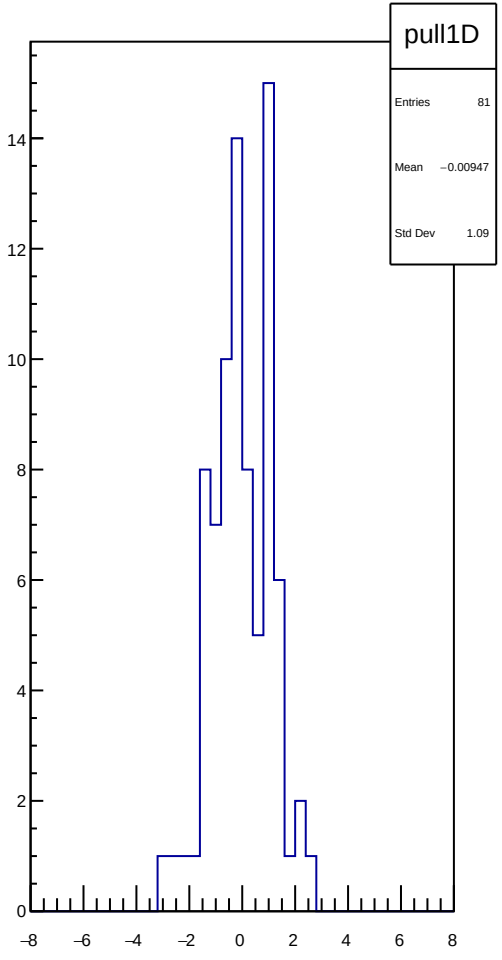

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.517e+05 / 80
p0 12.01 ± 0.01012
30
25
20
15
10
5

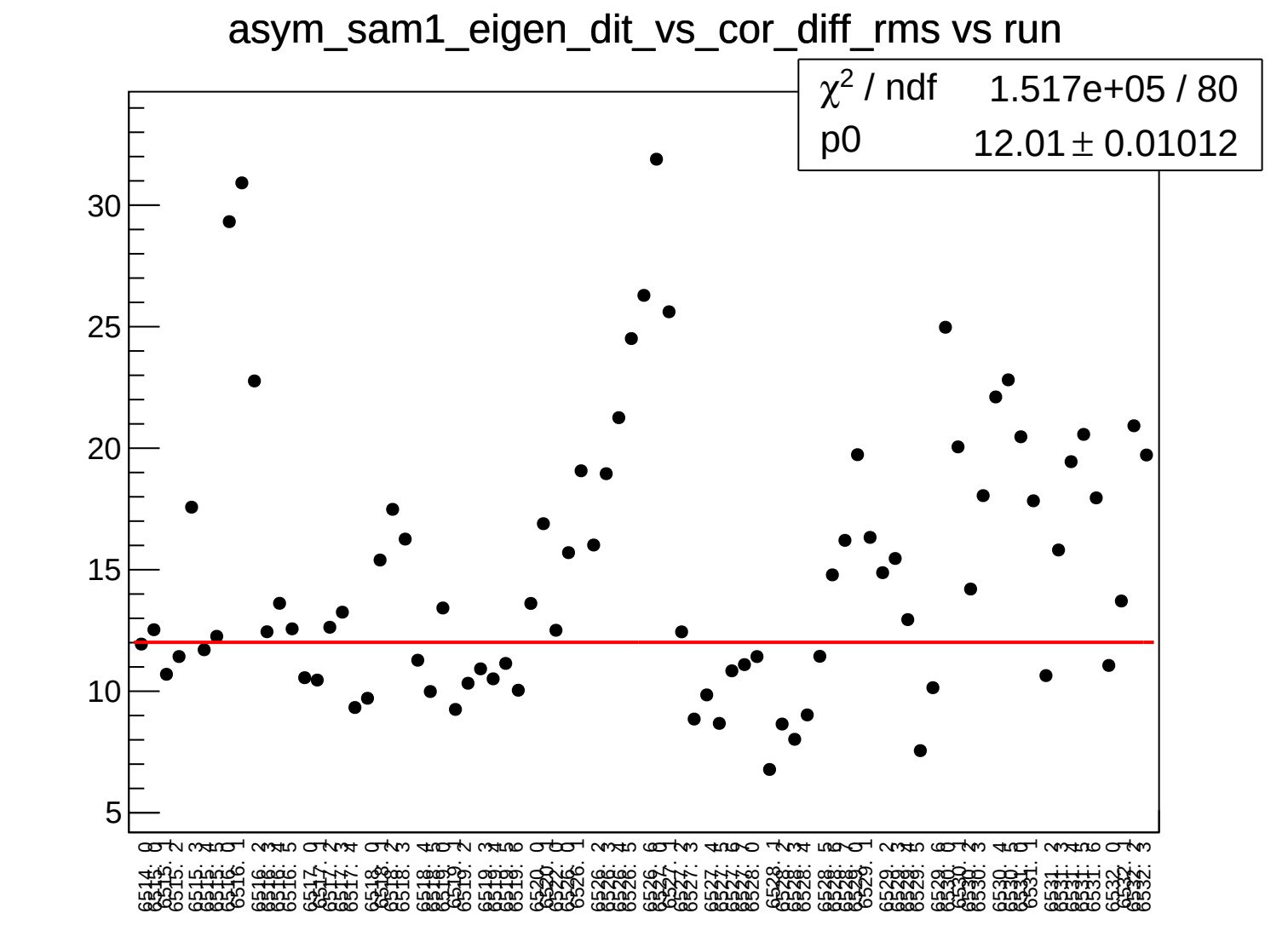

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 104.5 / 80
p0 −2.421e−06 ± 1.187e−06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 81
Mean −40.58
Std Dev 0
2
1
0
−1
−2
−3

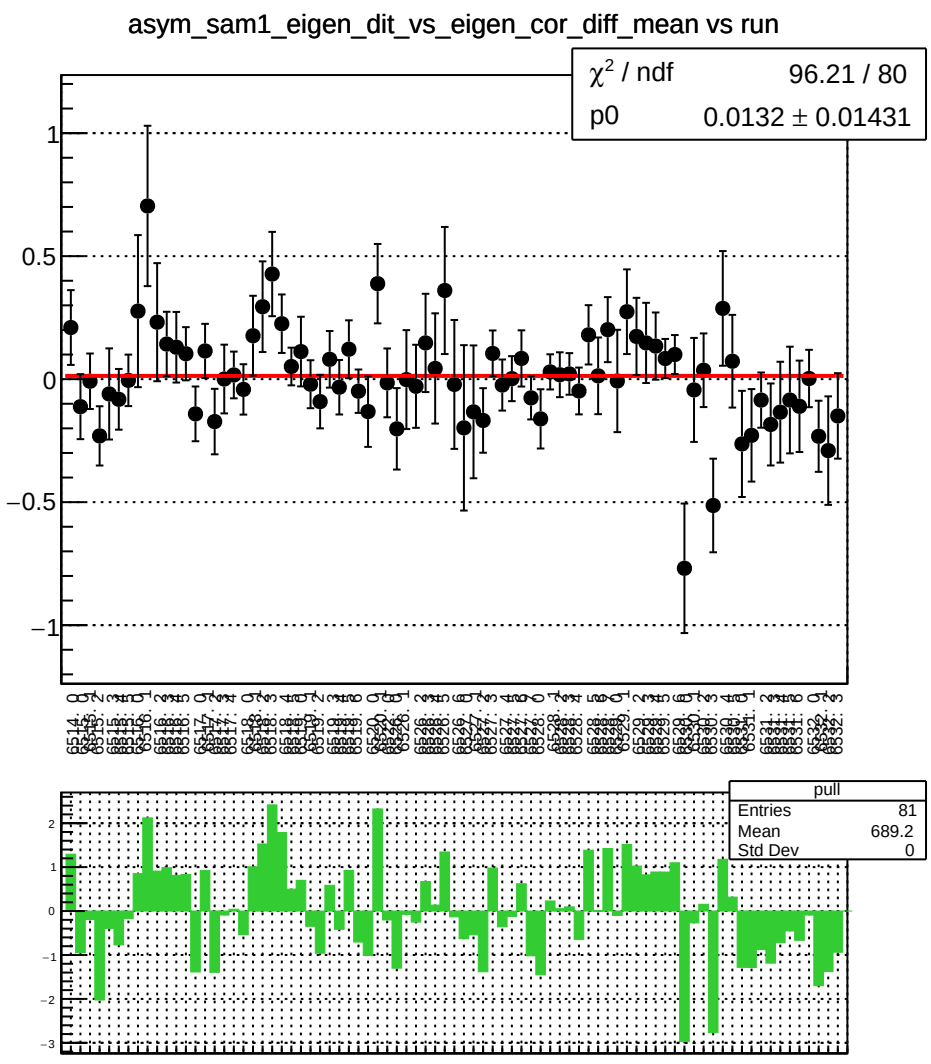

pull1D
Entries 81
Mean 0.0346
Std Dev 1.135
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

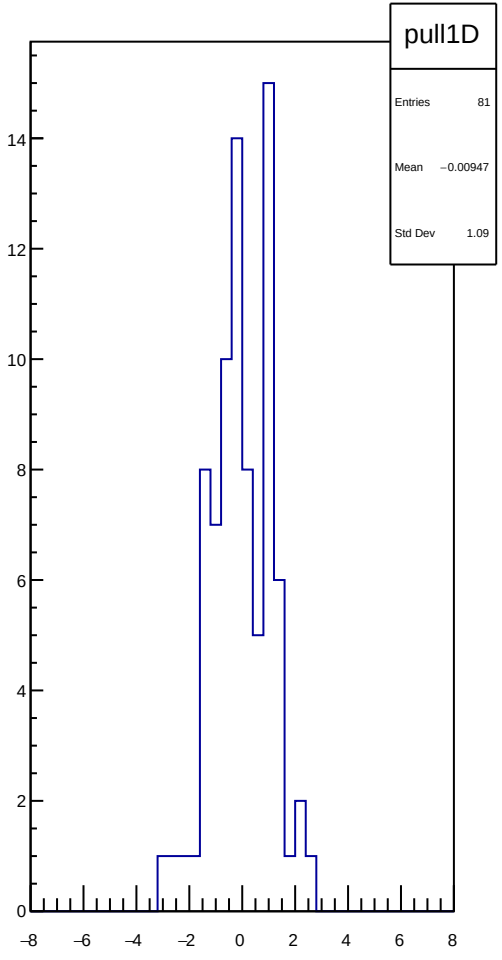

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.947e+04 / 80
p0 0.001042 ± 8.396e−07
0.0012
0.00115
0.0011
0.00105
0.001
0.00095
0.0009
0.00085

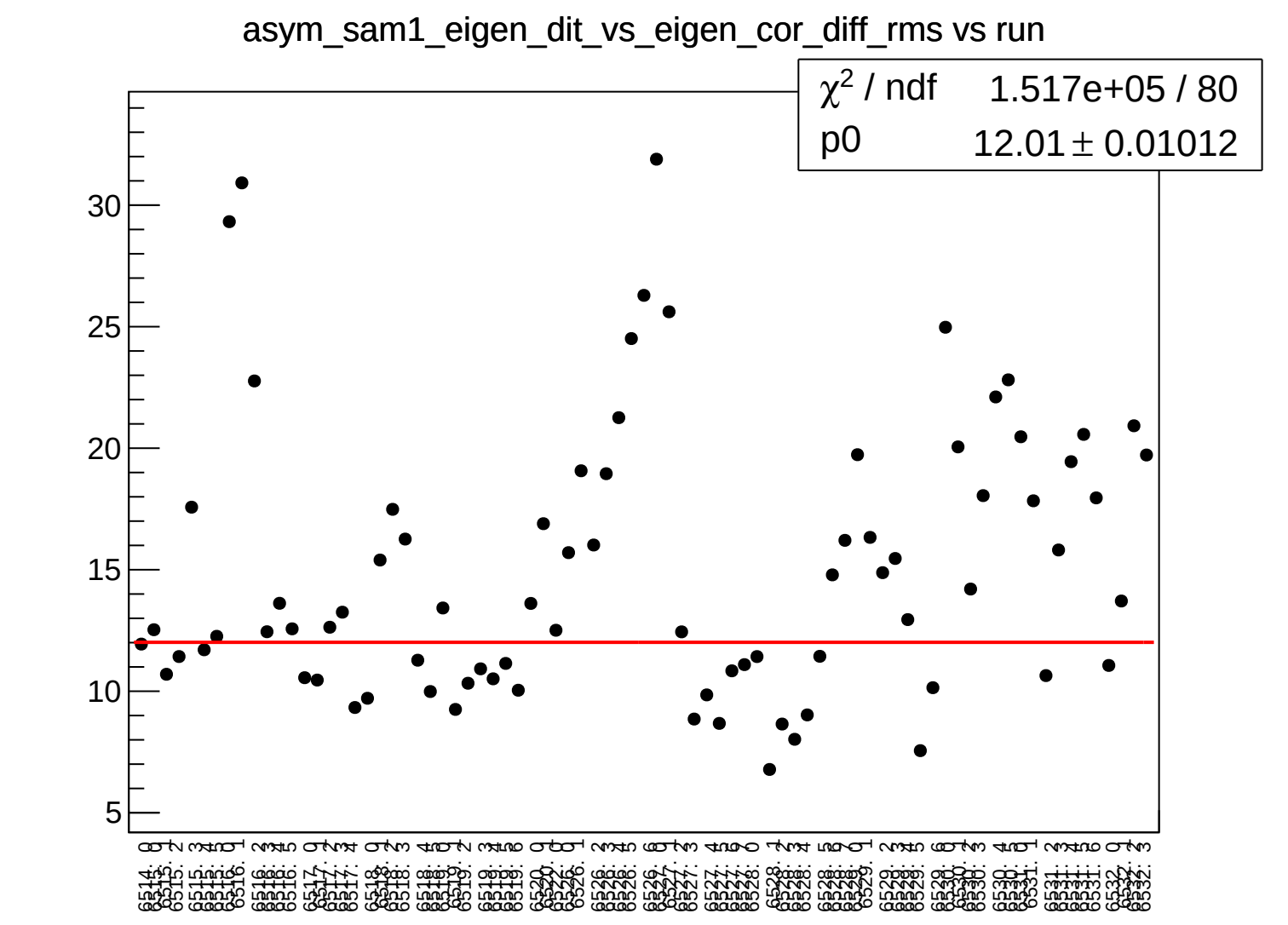

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.21 / 80
p0 0.0132 ± 0.01431
pull
Entries 81
Mean 689.2
Std Dev 0

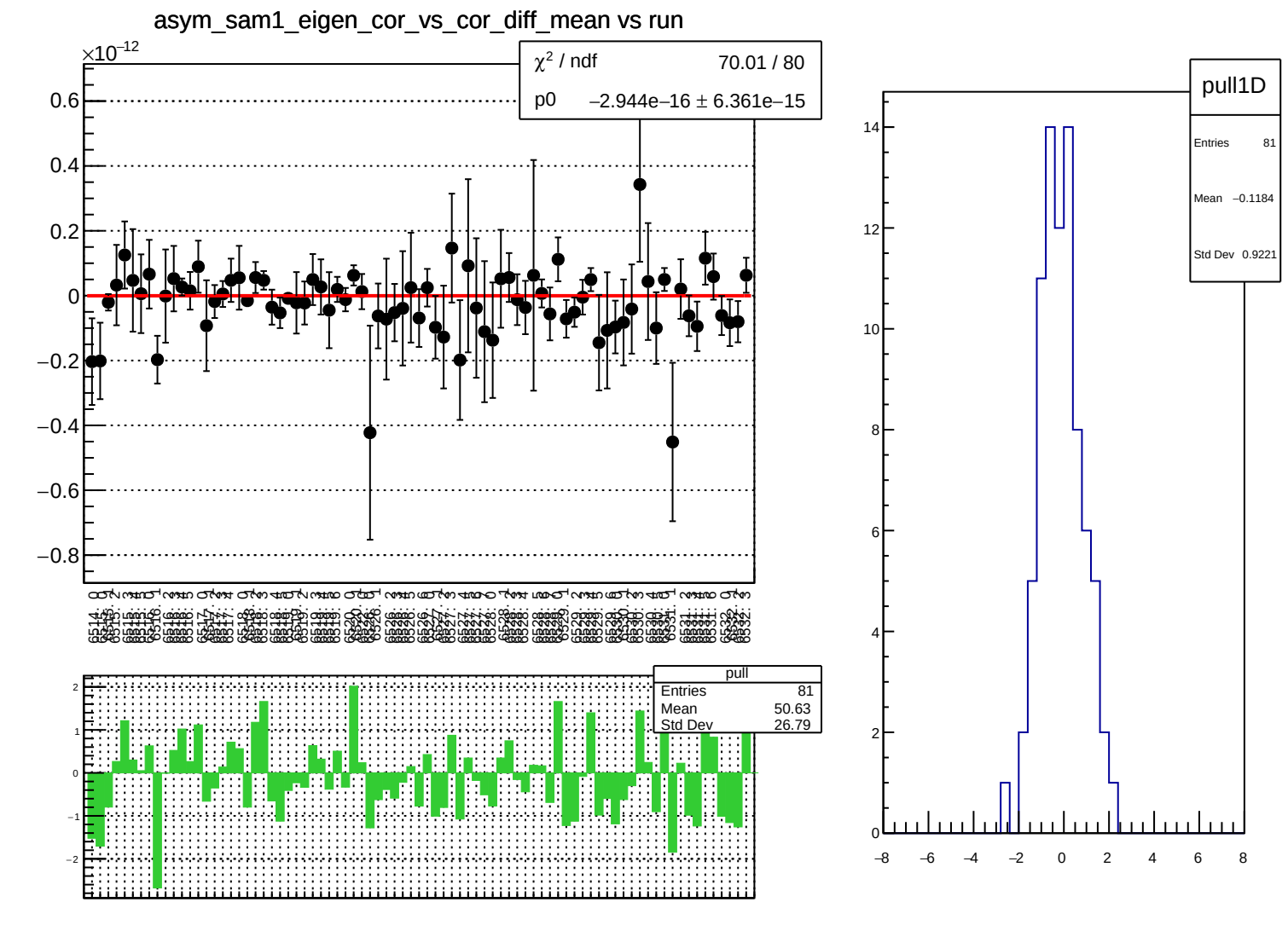

pull1D
Entries 81
Mean −0.00947
Std Dev 1.09

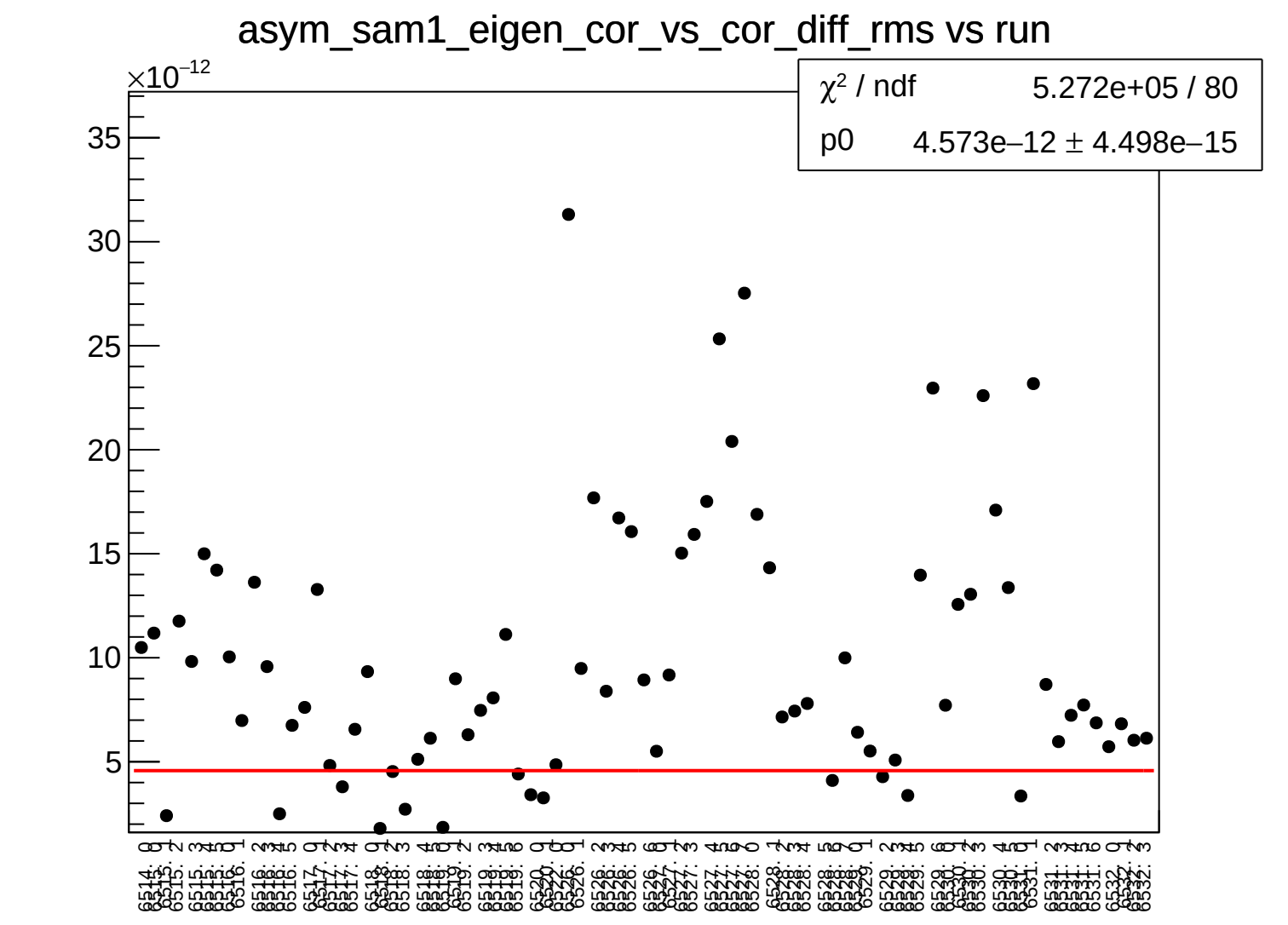

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.517e+05 / 80
p0 12.01 ± 0.01012
30
25
20
15
10
5

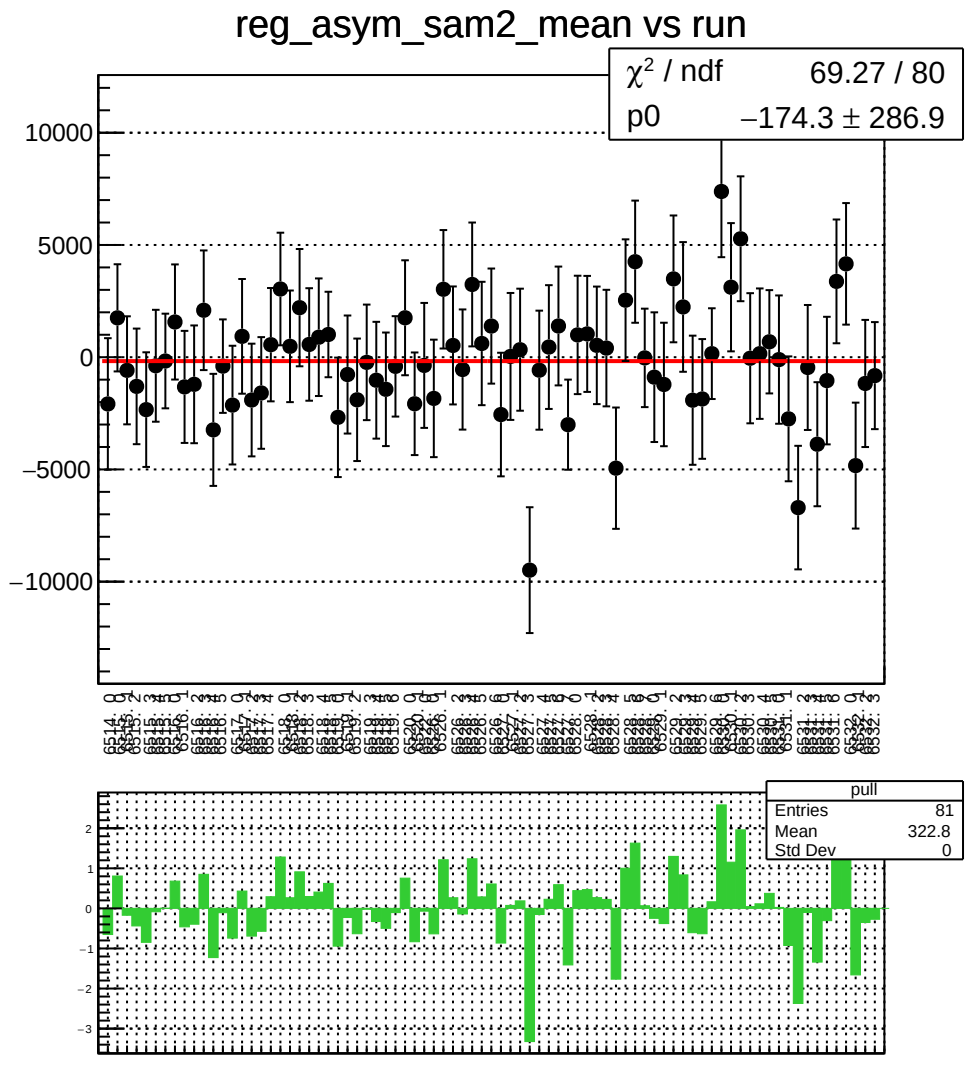

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.21 / 80
p0 0.0132 ± 0.01431
pull
Entries 81
Mean 689.2
Std Dev 0

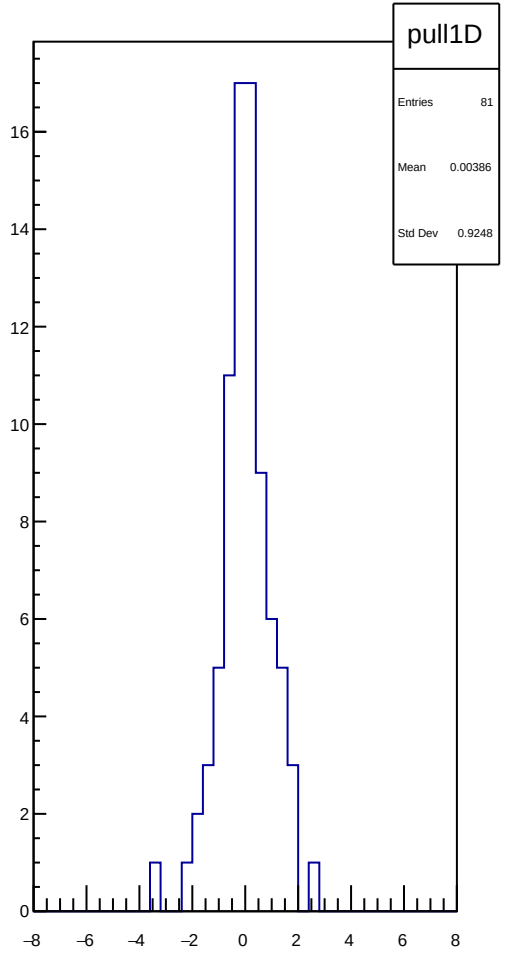

pull1D
Entries 81
Mean −0.00947
Std Dev 1.09

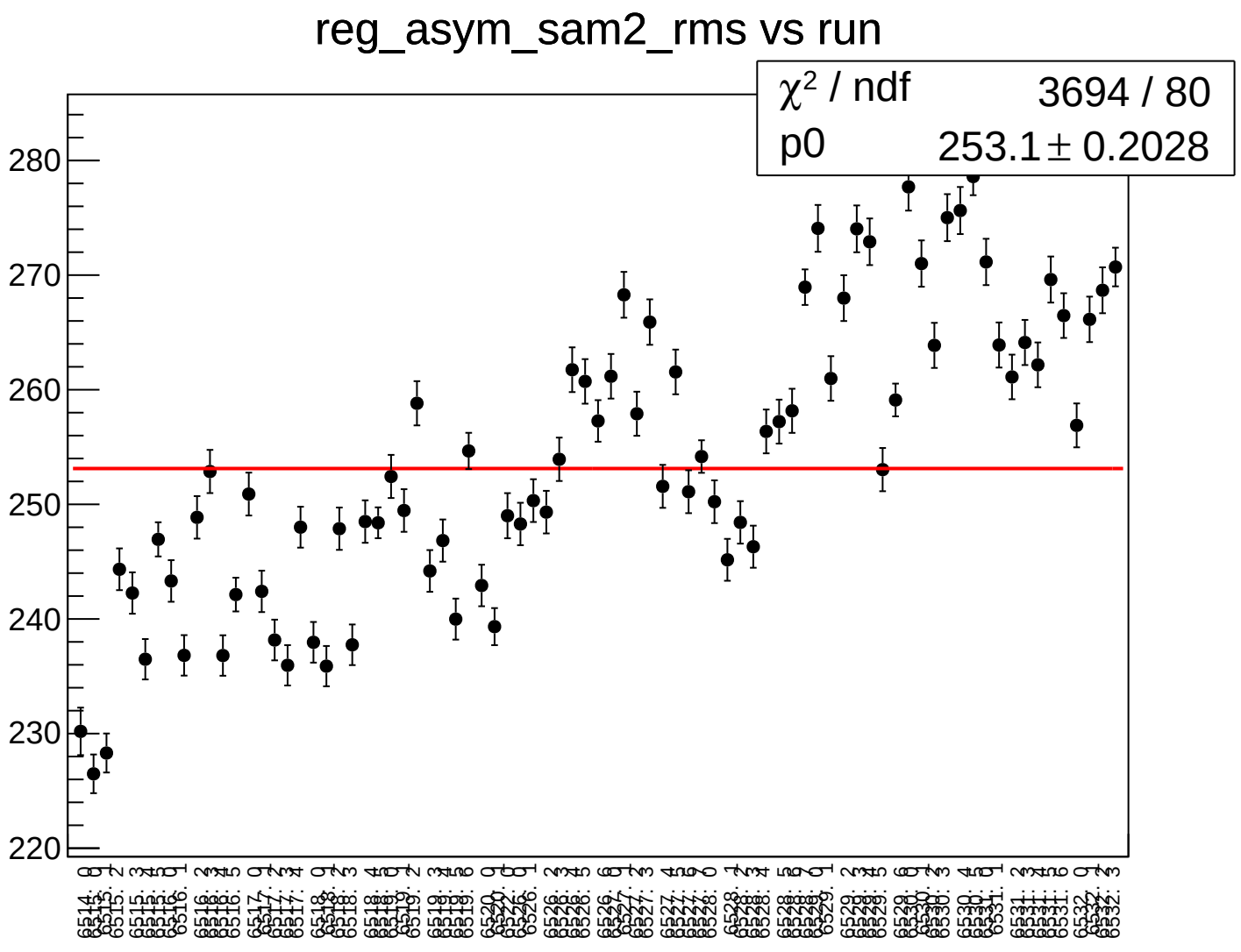

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.517e+05 / 80
p0 12.01 ± 0.01012
30
25
20
15
10
5

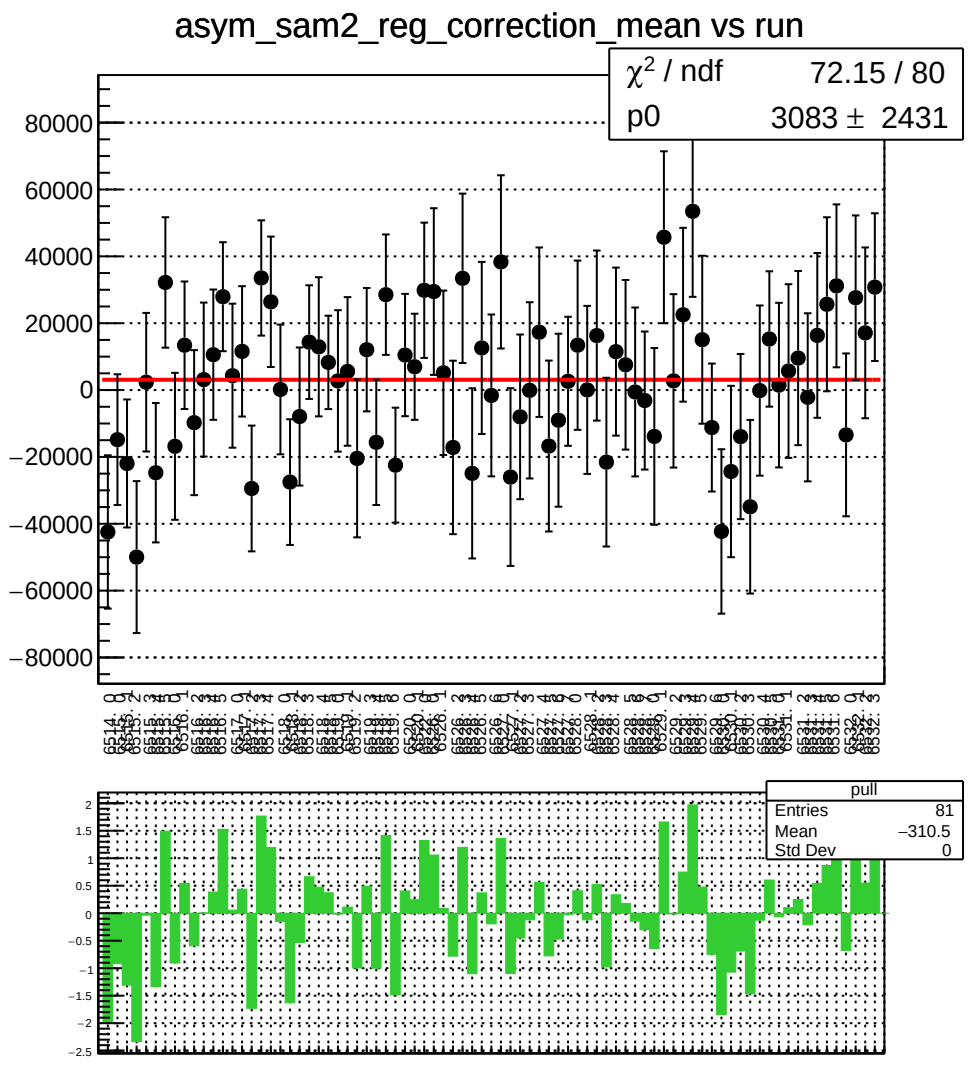

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 70.01 / 80
p0 −2.944e−16 ± 6.361e−15
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull
Entries 81
Mean 50.63
Std Dev 26.79
2
1
0
−1
−2
pull1D
Entries 81
Mean −0.1184
Std Dev 0.9221
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

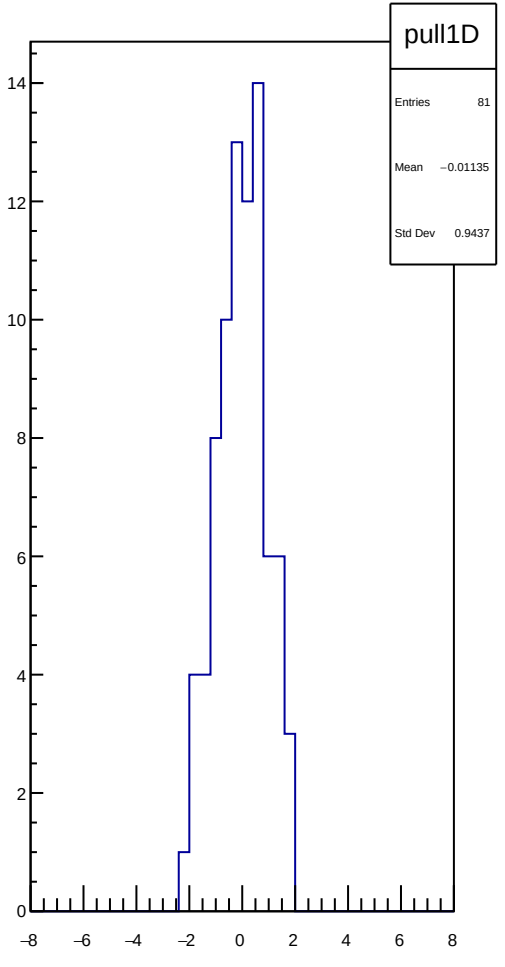

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.272e+05 / 80
p0 4.573e−12 ± 4.498e−15
35
30
25
20
15
10
5

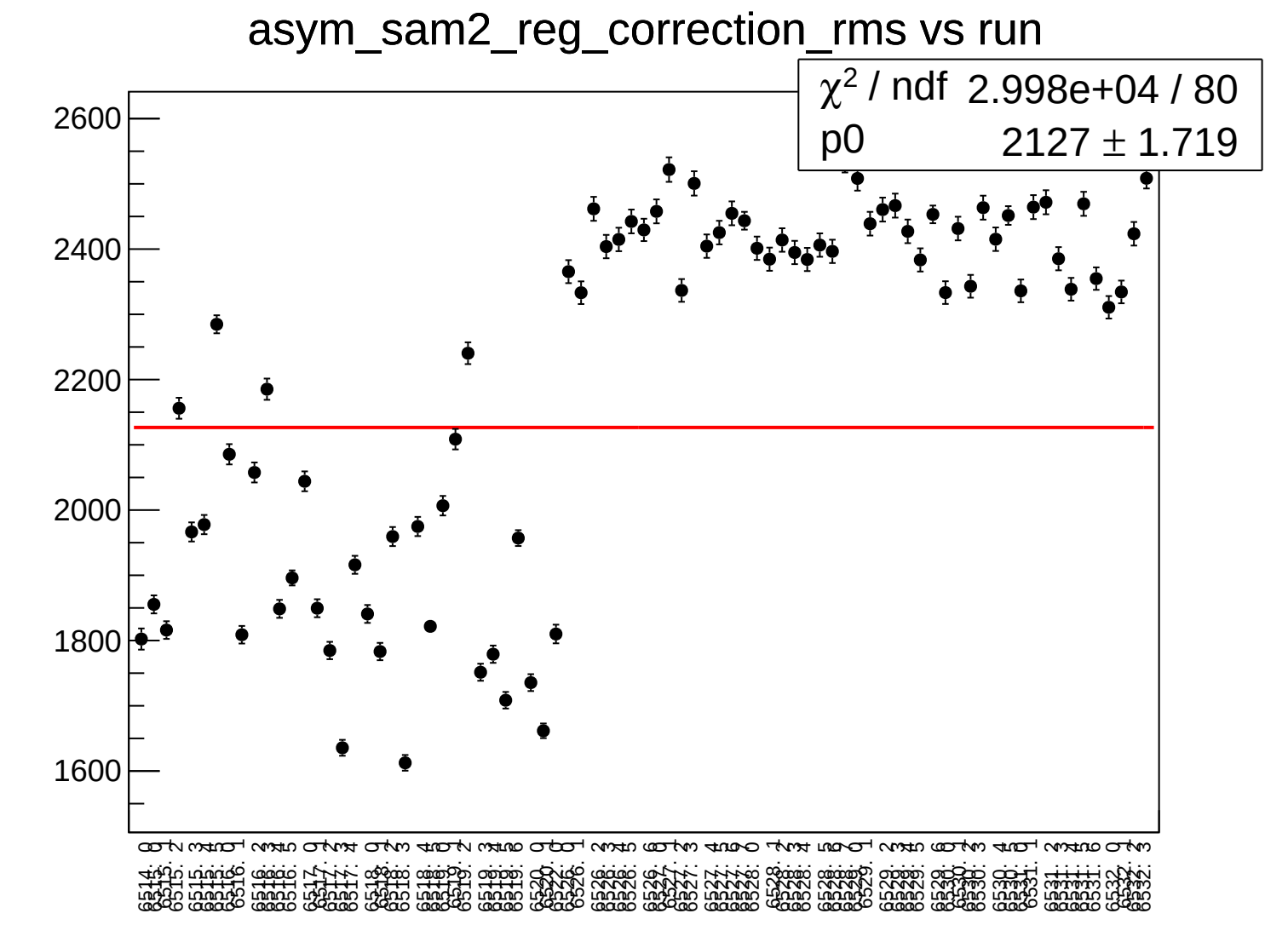

reg_asym_sam2_mean vs run
χ² / ndf 69.27 / 80
p0 −174.3 ± 286.9
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 322.8
Std Dev 0
2
1
0
−1
−2
−3

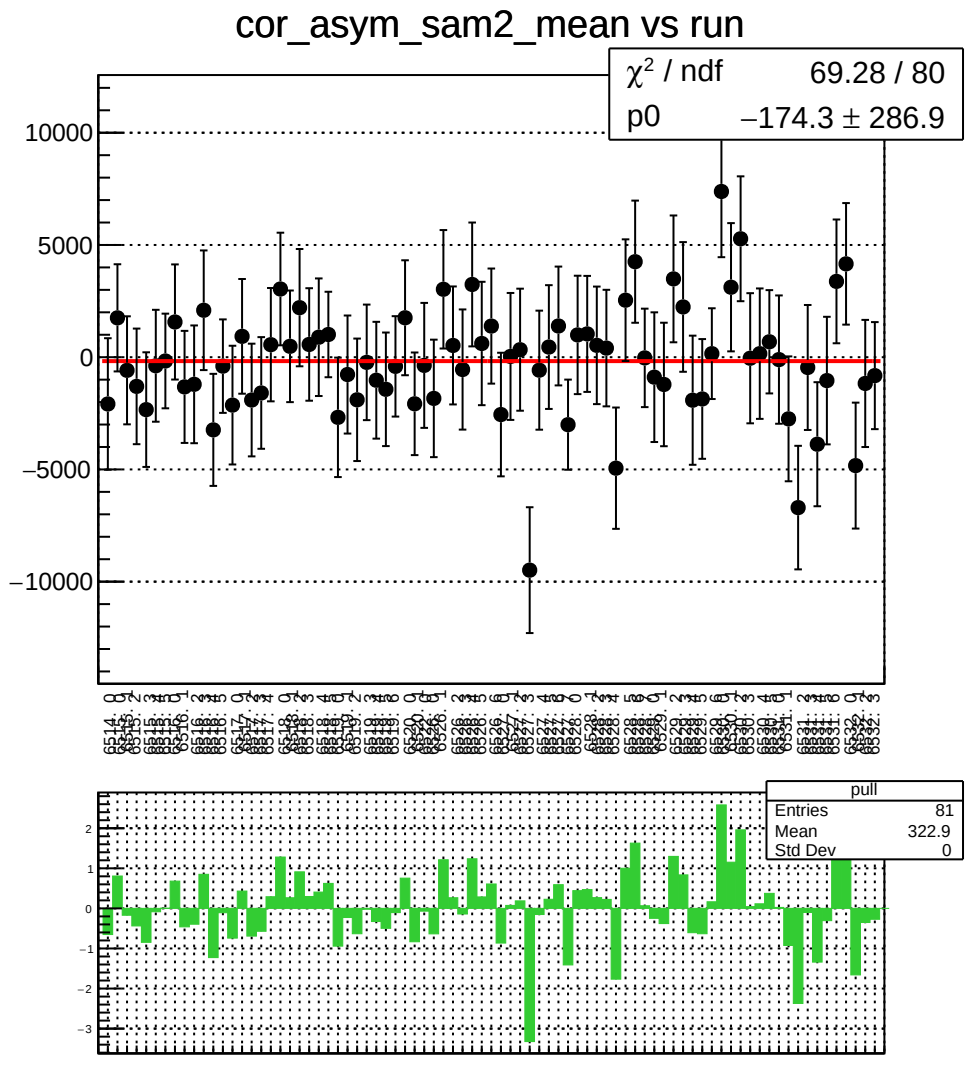

pull1D
Entries 81
Mean 0.00386
Std Dev 0.9248
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

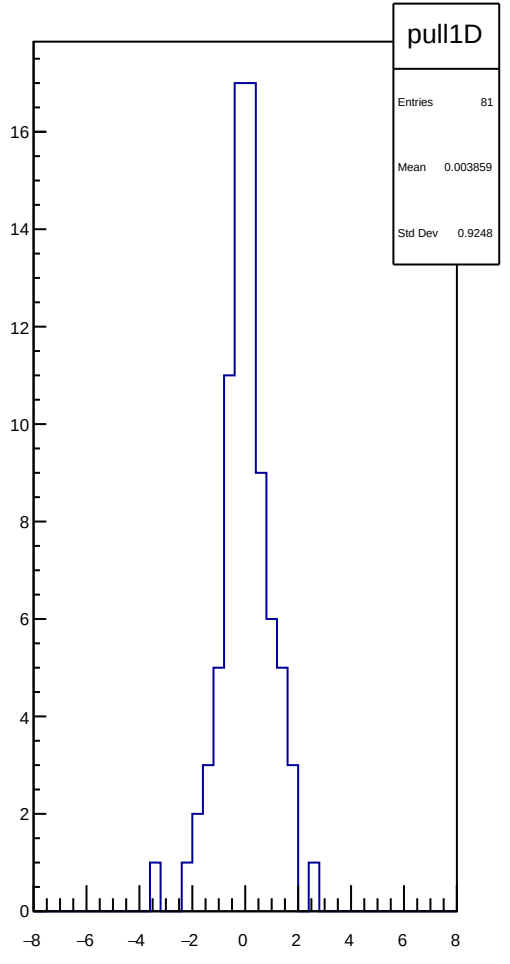

reg_asym_sam2_rms vs run
χ² / ndf 3694 / 80
p0 253.1 ± 0.2028
280
270
260
250
240
230
220

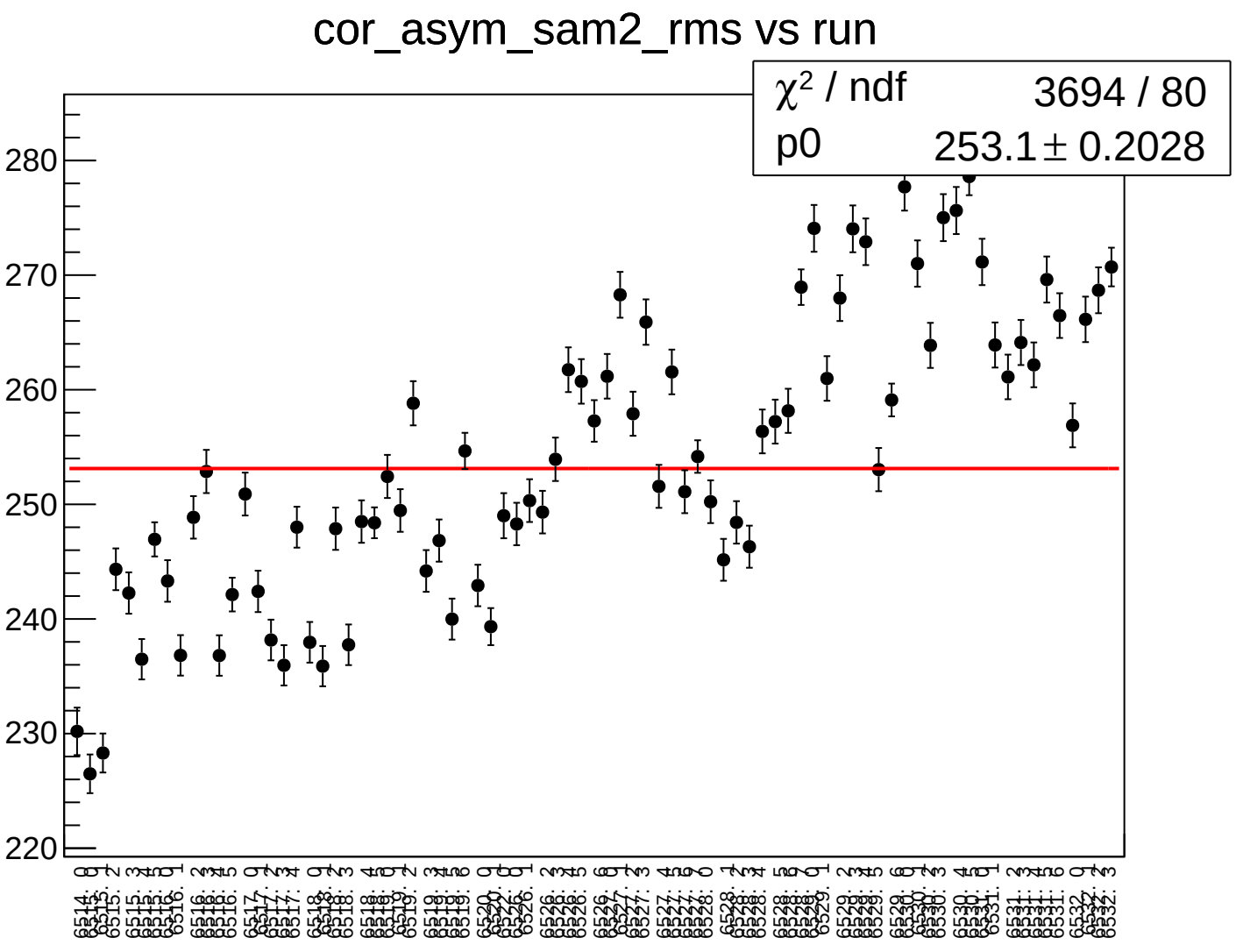

asym_sam2_reg_correction_mean vs run
χ² / ndf 72.15 / 80
p0 3083 ± 2431
pull
Entries 81
Mean −310.5
Std Dev 0

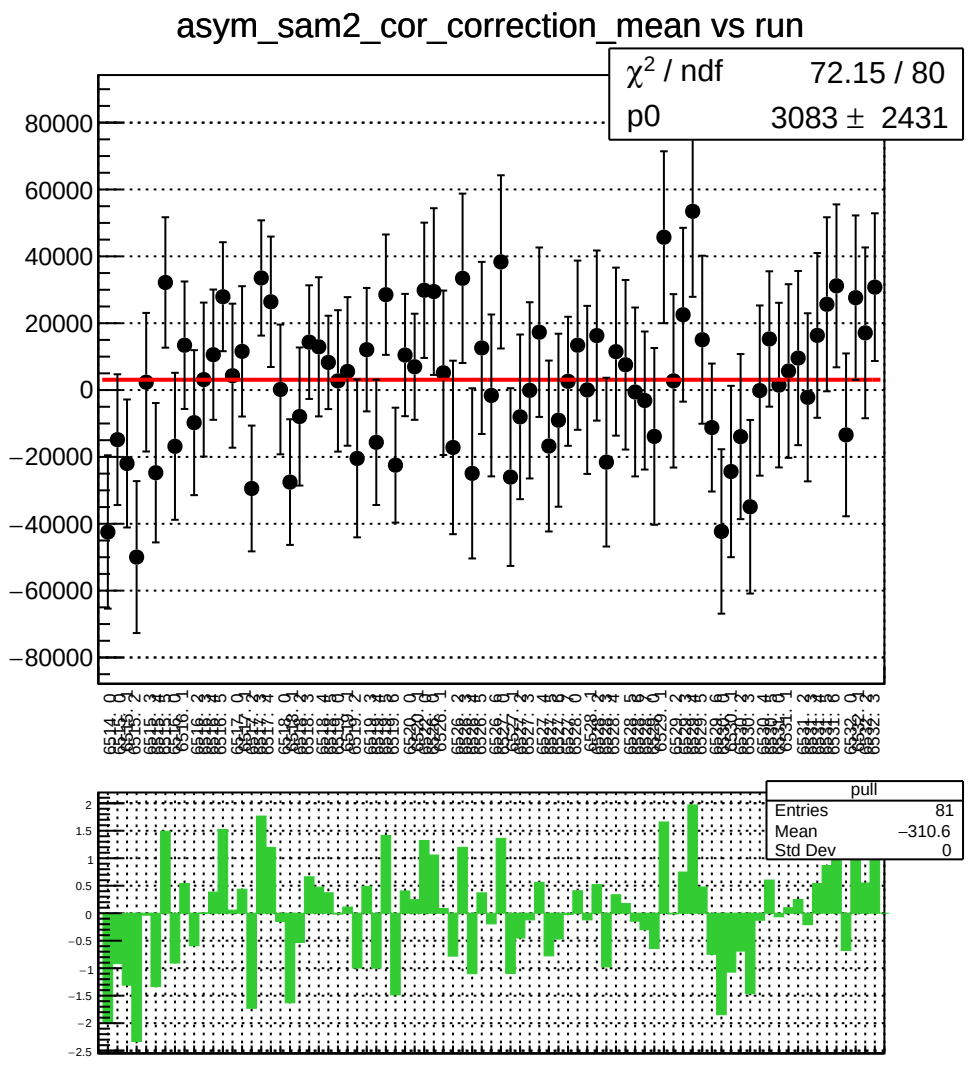

pull1D
Entries 81
Mean −0.01135
Std Dev 0.9437

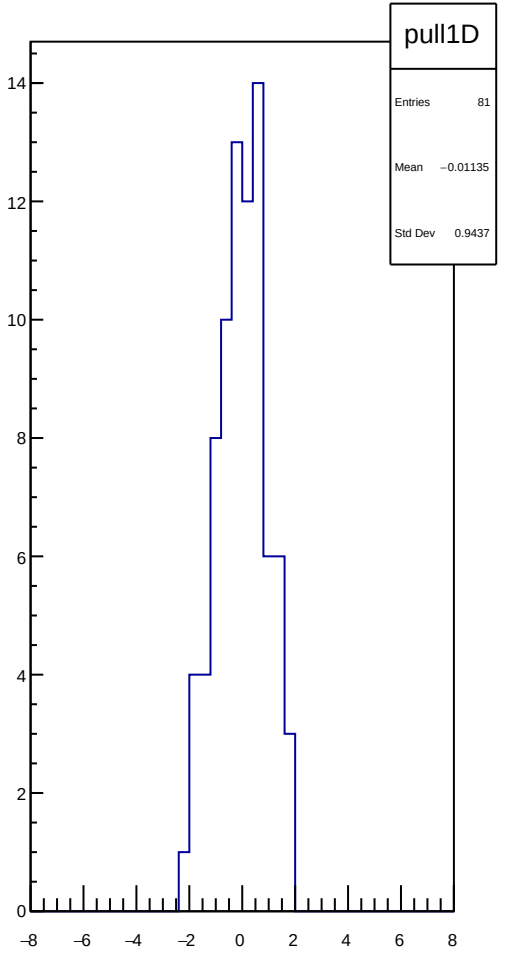

asym_sam2_reg_correction_rms vs run
χ² / ndf 2.998e+04 / 80
p0 2127 ± 1.719
2600
2400
2200
2000
1800
1600

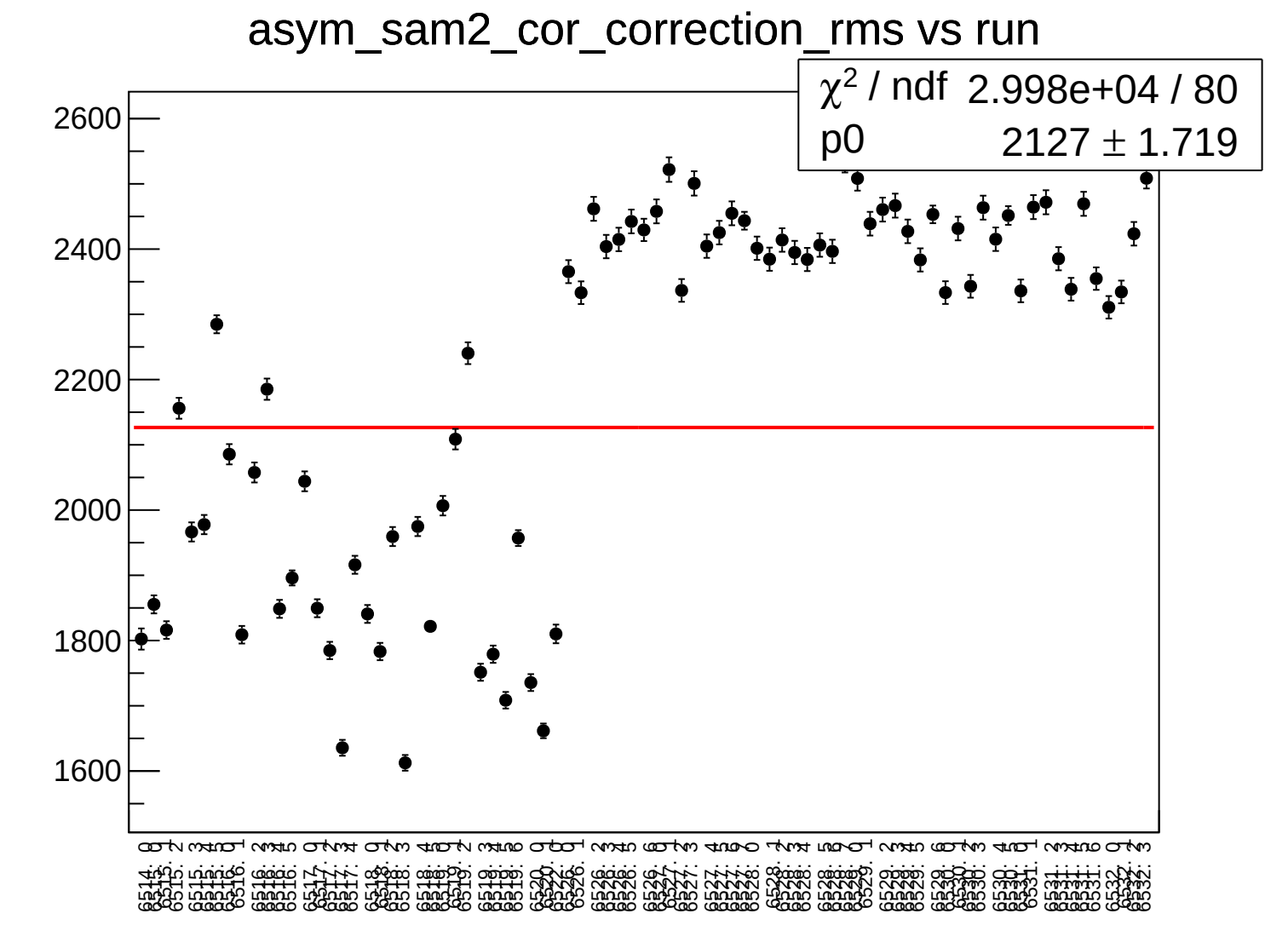

cor_asym_sam2_mean vs run
χ² / ndf 69.28 / 80
p0 −174.3 ± 286.9
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 322.9
Std Dev 0
2
1
0
−1
−2
−3

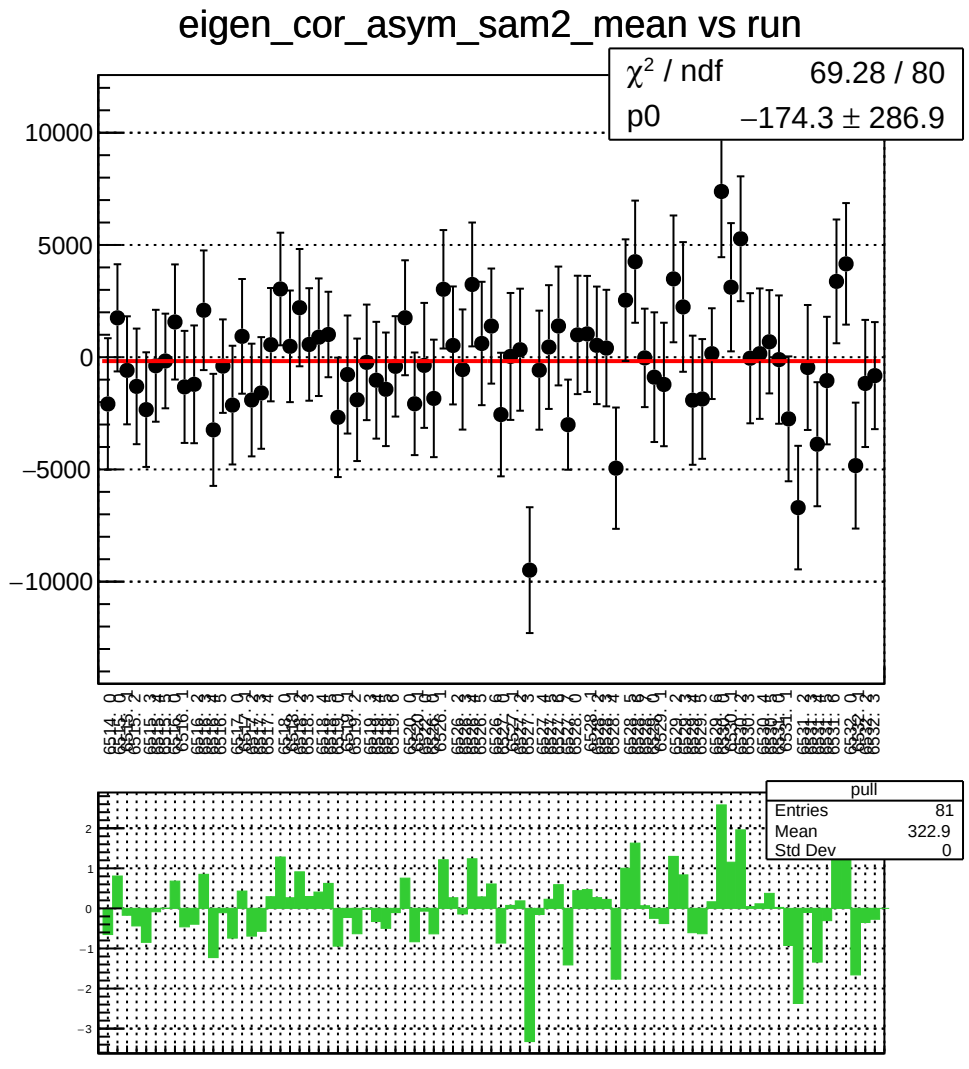

pull1D
Entries 81
Mean 0.003859
Std Dev 0.9248
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

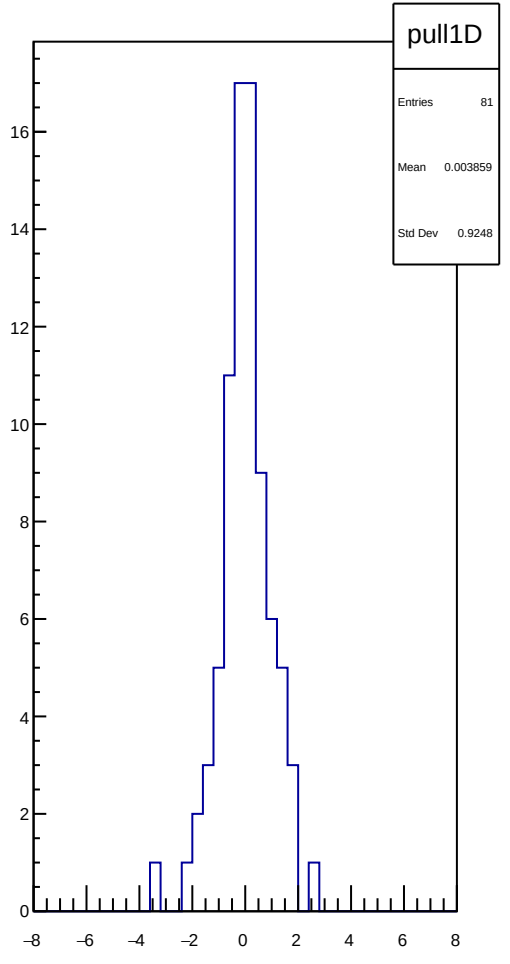

cor_asym_sam2_rms vs run
χ² / ndf 3694 / 80
p0 253.1 ± 0.2028
280
270
260
250
240
230
220

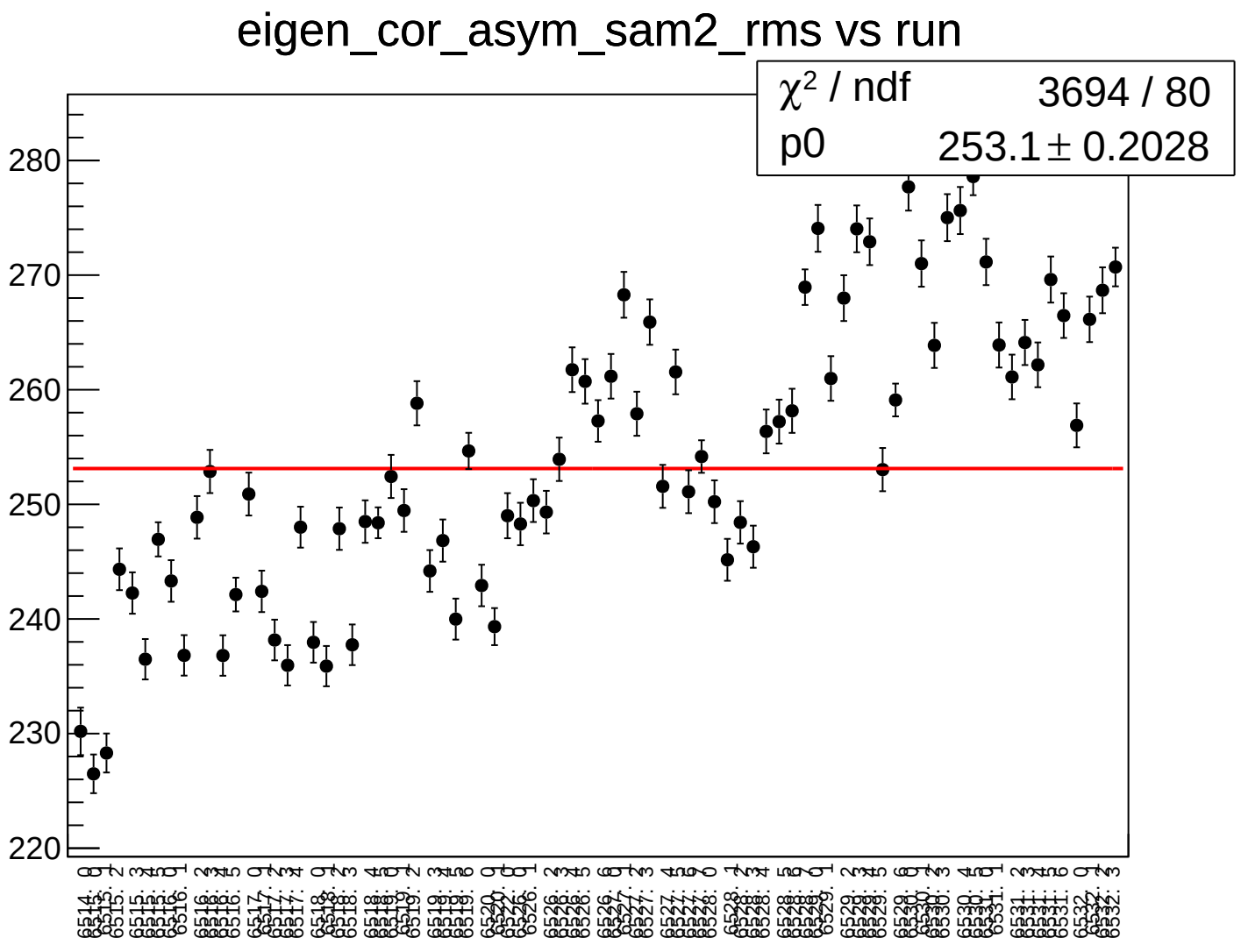

asym_sam2_cor_correction_mean vs run
χ² / ndf 72.15 / 80
p0 3083 ± 2431
pull
Entries 81
Mean −310.6
Std Dev 0

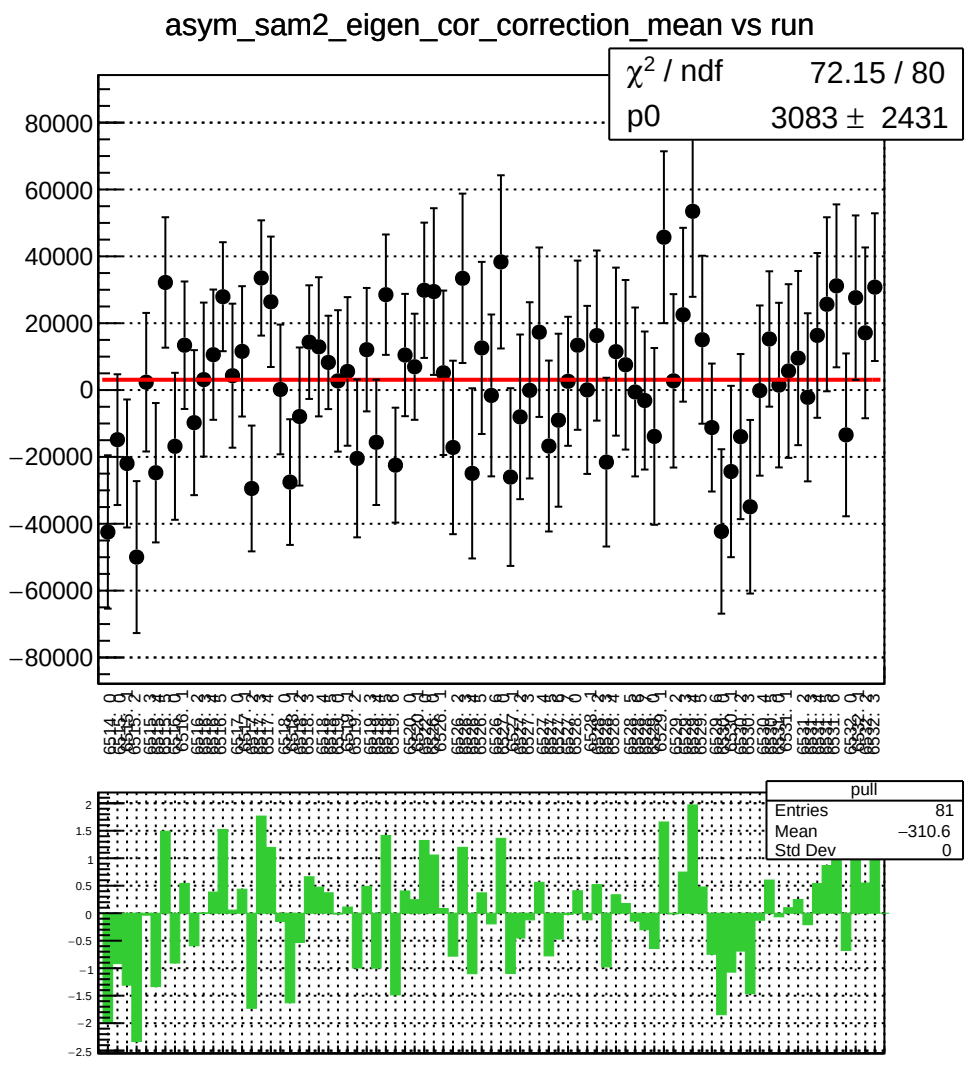

pull1D
Entries 81
Mean −0.01135
Std Dev 0.9437

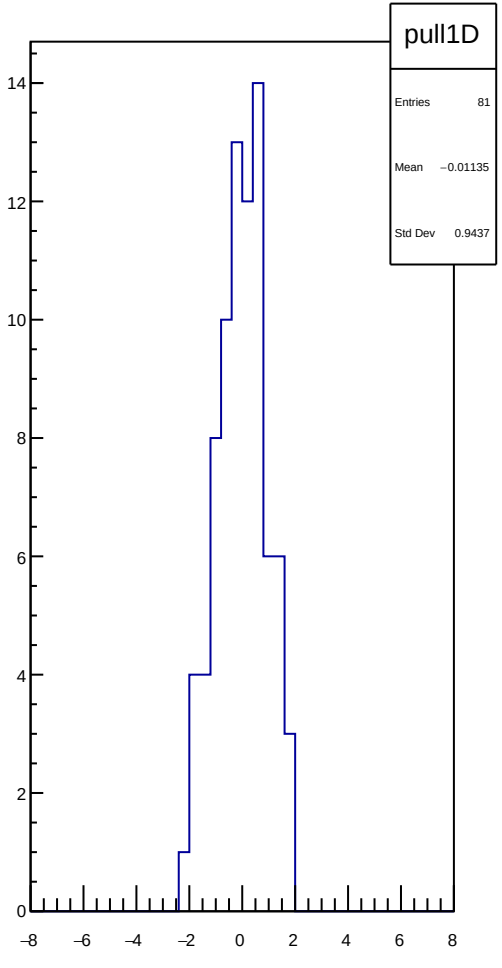

asym_sam2_cor_correction_rms vs run
χ² / ndf 2.998e+04 / 80
p0 2127 ± 1.719
2600
2400
2200
2000
1800
1600

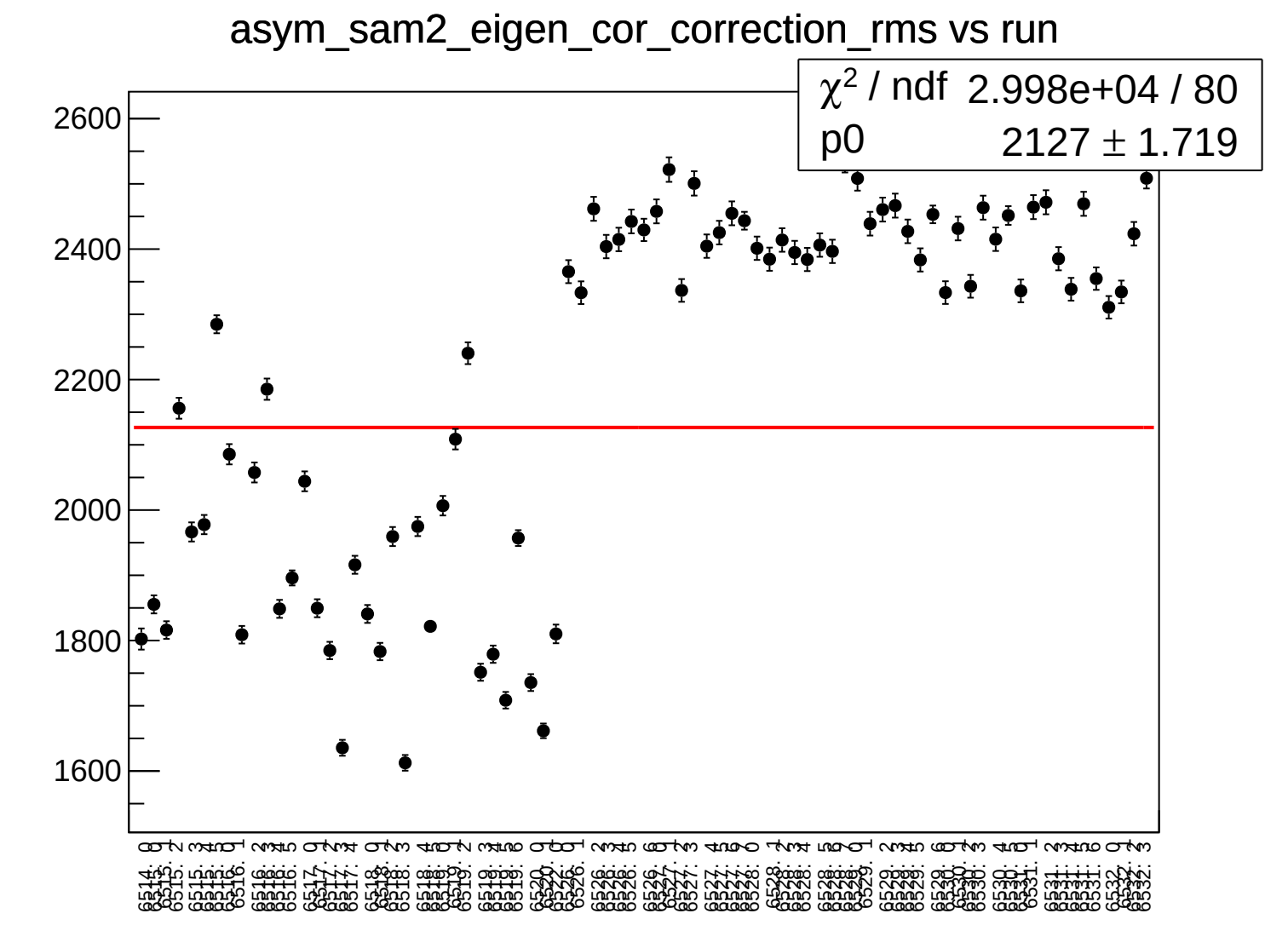

eigen_cor_asym_sam2_mean vs run
χ² / ndf 69.28 / 80
p0 −174.3 ± 286.9
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 322.9
Std Dev 0
2
1
0
−1
−2
−3

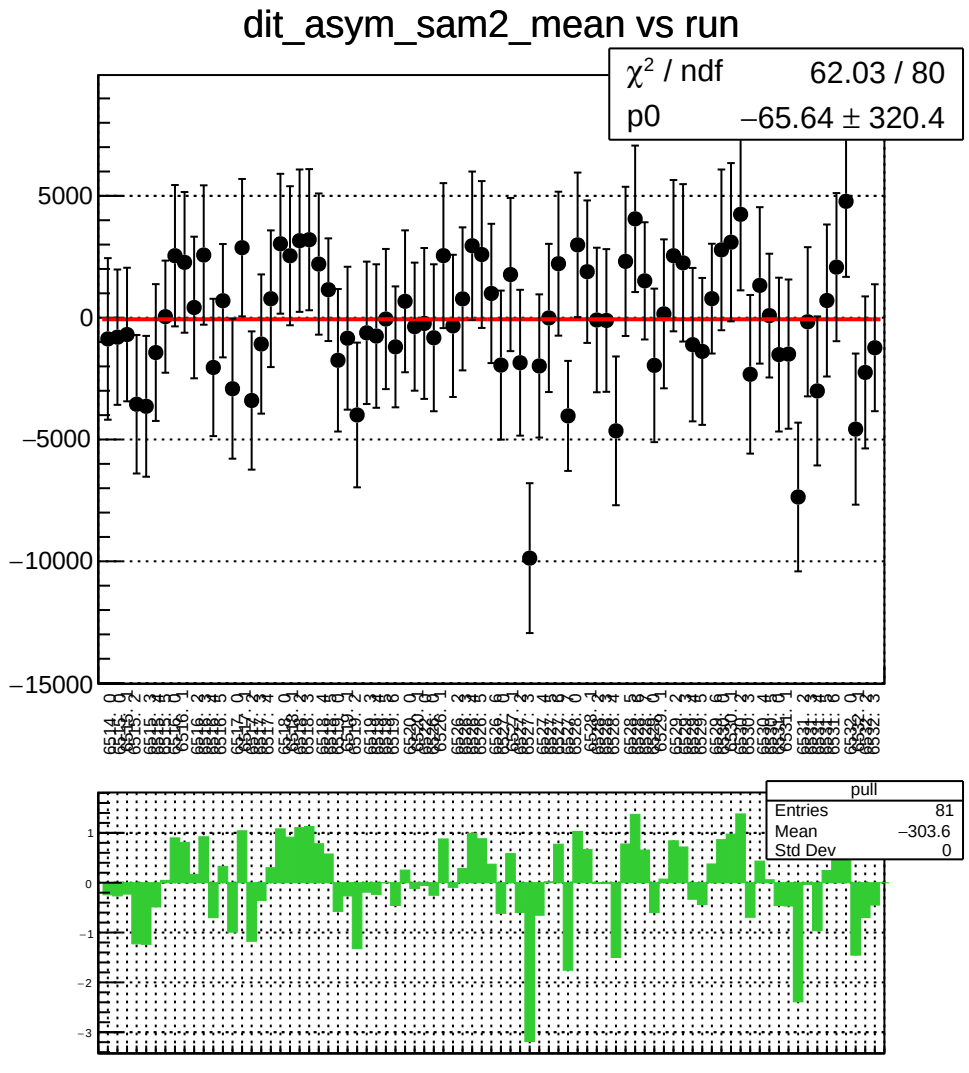

pull1D
Entries 81
Mean 0.003859
Std Dev 0.9248
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

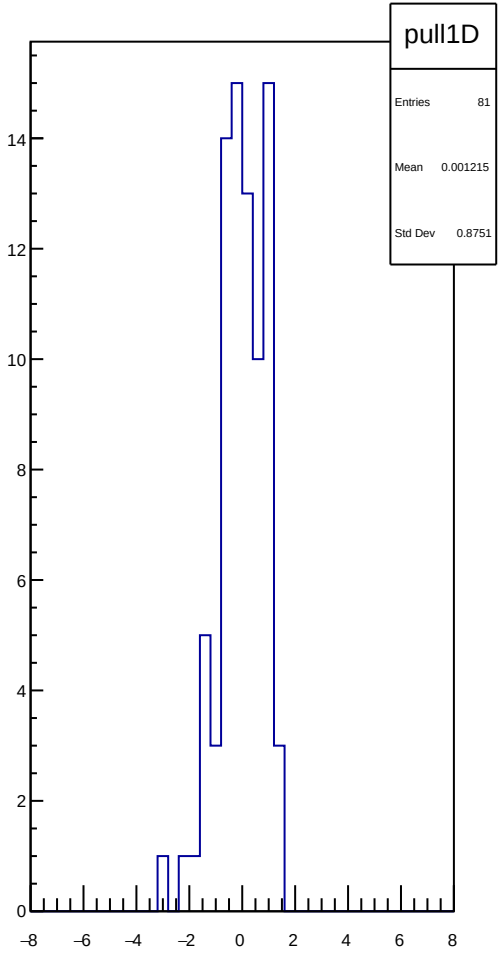

eigen_cor_asym_sam2_rms vs run
χ² / ndf 3694 / 80
p0 253.1 ± 0.2028
280
270
260
250
240
230
220

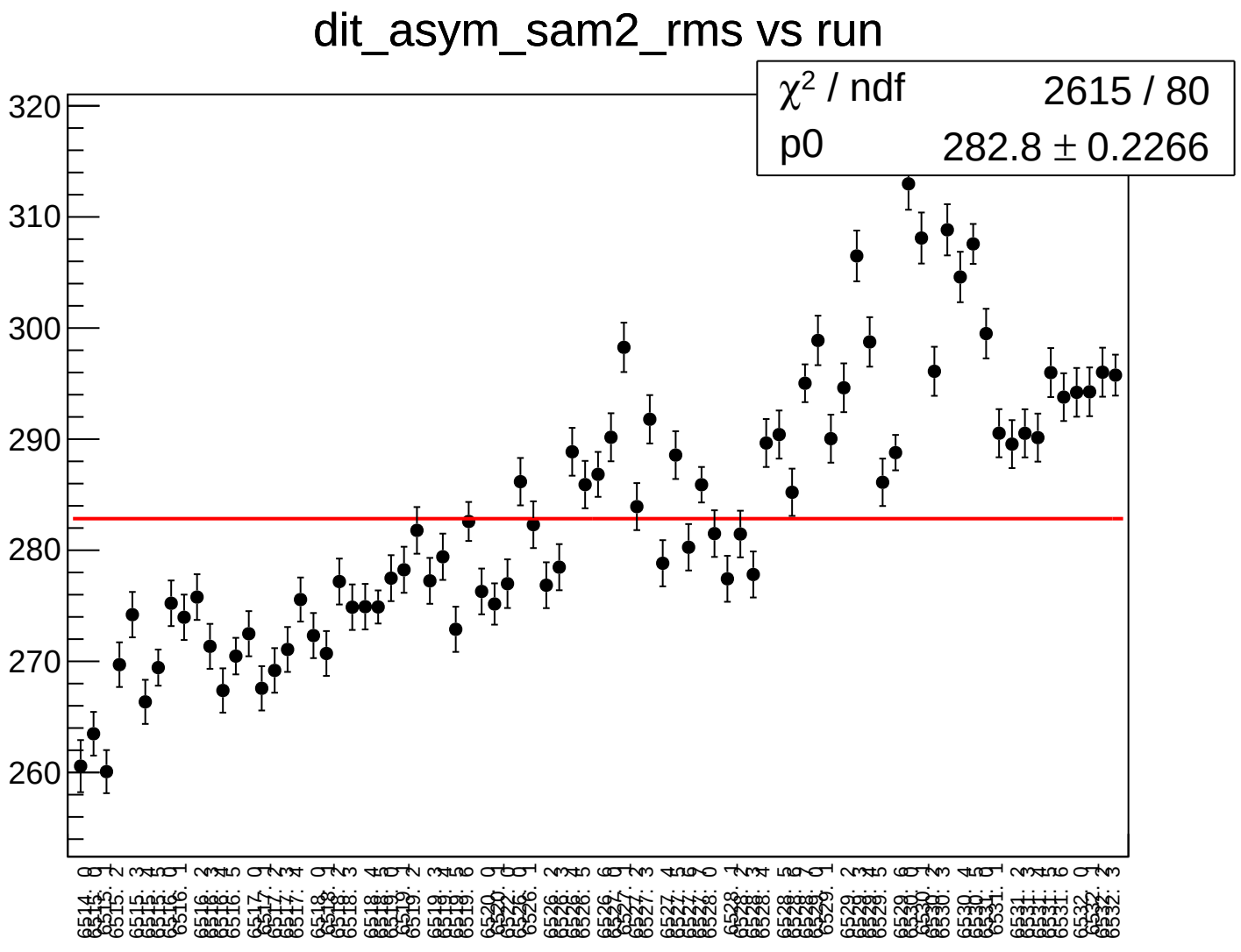

asym_sam2_eigen_cor_correction_mean vs run
χ² / ndf 72.15 / 80
p0 3083 ± 2431
pull
Entries 81
Mean −310.6
Std Dev 0

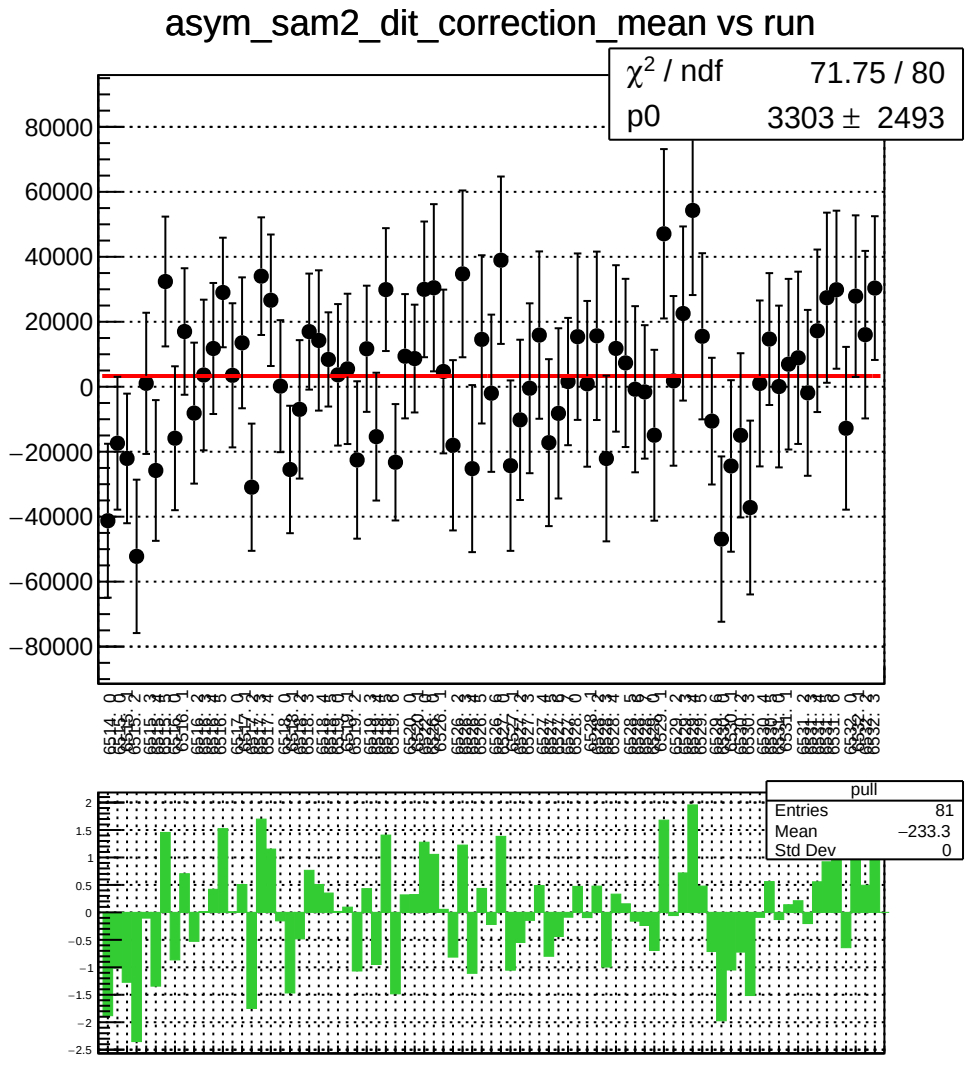

pull1D
Entries 81
Mean −0.01135
Std Dev 0.9437

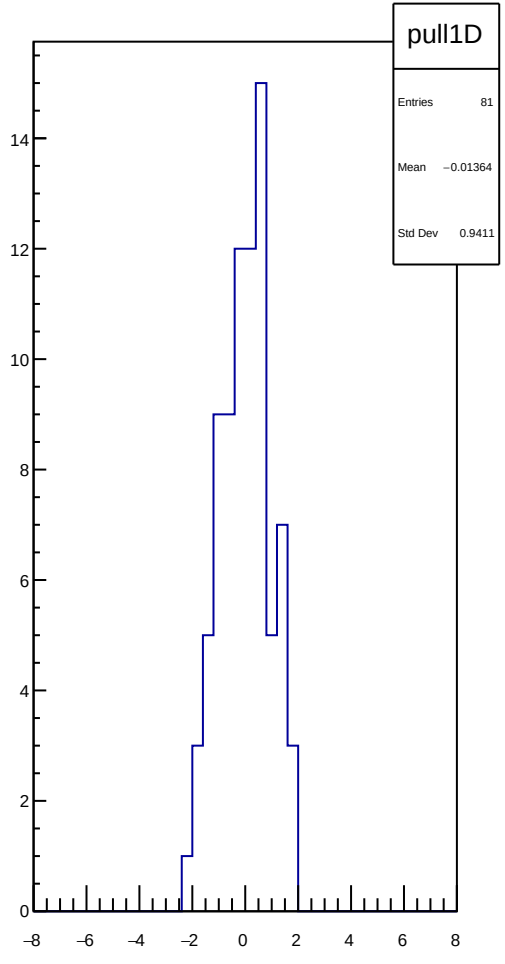

asym_sam2_eigen_cor_correction_rms vs run
χ² / ndf 2.998e+04 / 80
p0 2127 ± 1.719
2600
2400
2200
2000
1800
1600

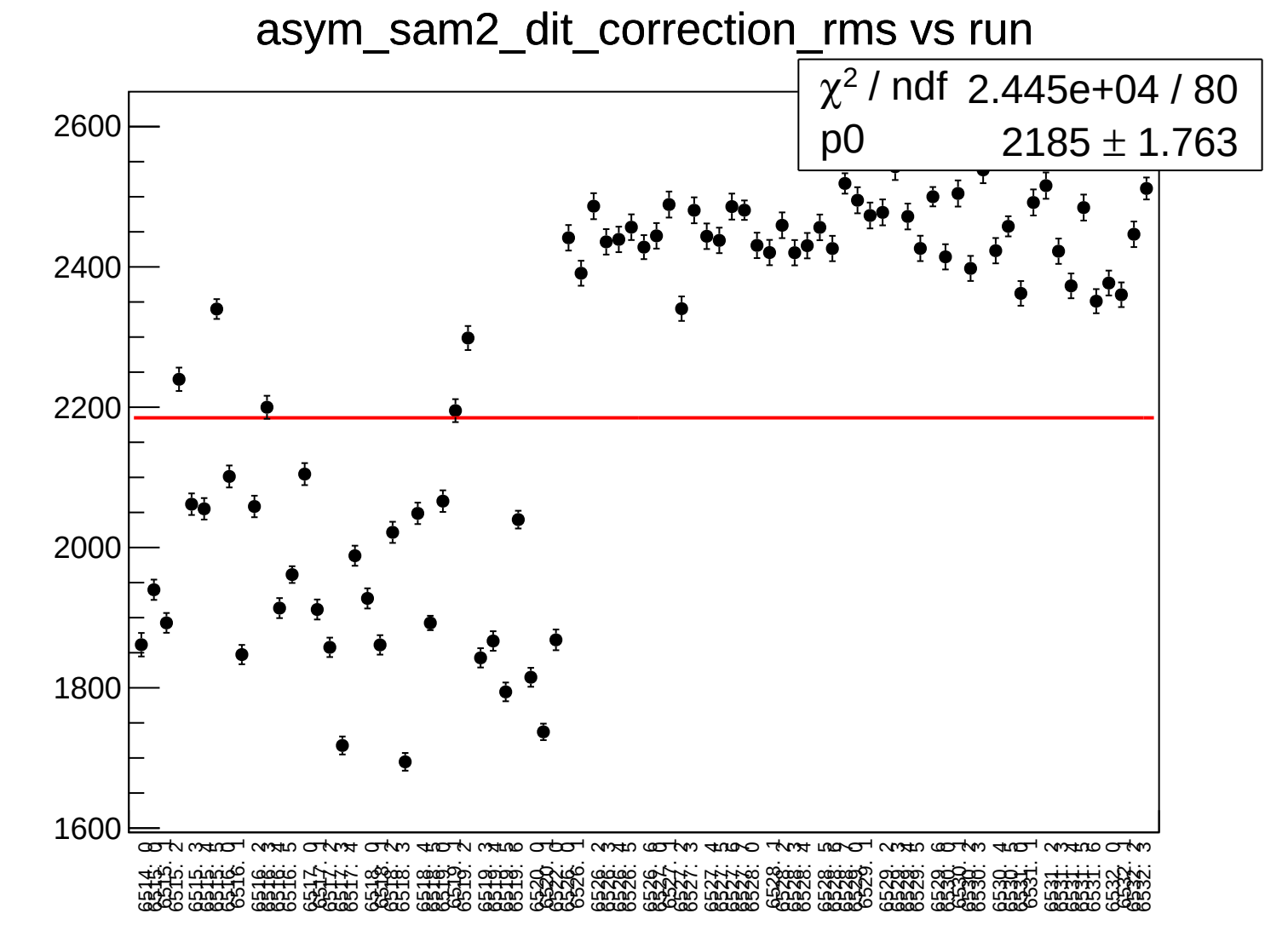

dit_asym_sam2_mean vs run
χ² / ndf 62.03 / 80
p0 −65.64 ± 320.4
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean −303.6
Std Dev 0
1
0
−1
−2
−3

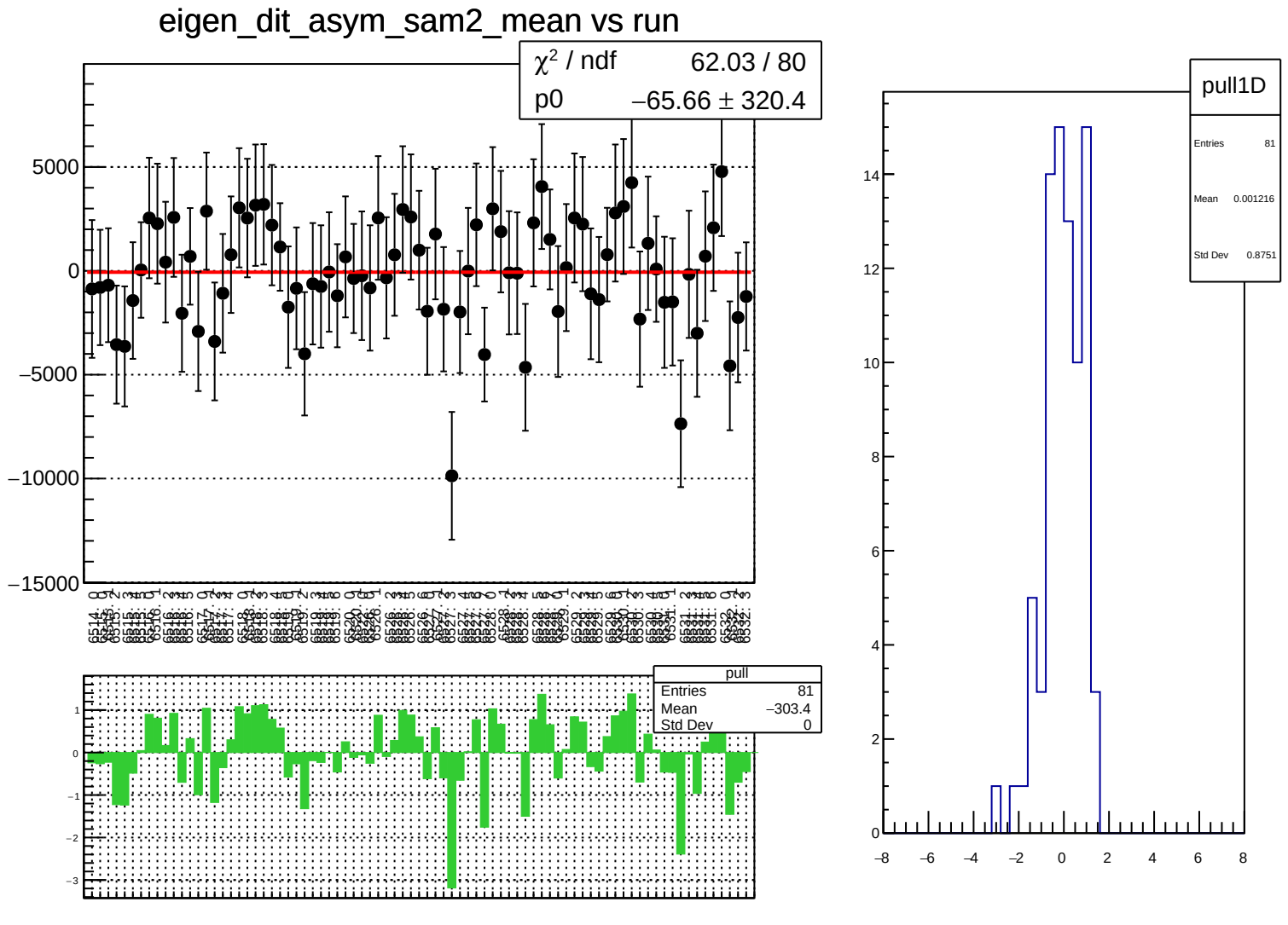

pull1D
Entries 81
Mean 0.001215
Std Dev 0.8751
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

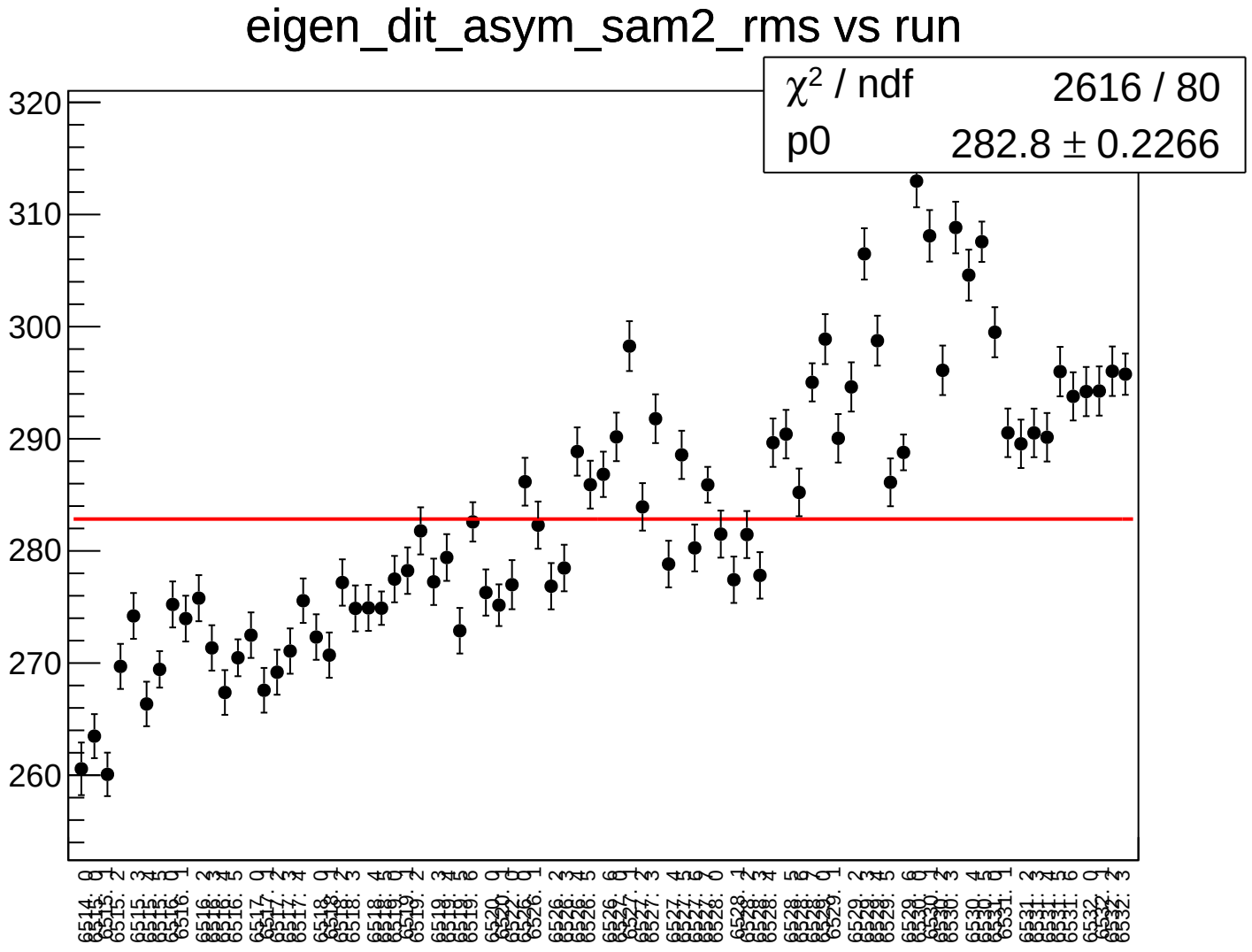

dit_asym_sam2_rms vs run
χ² / ndf 2615 / 80
p0 282.8 ± 0.2266
320
310
300
290
280
270
260

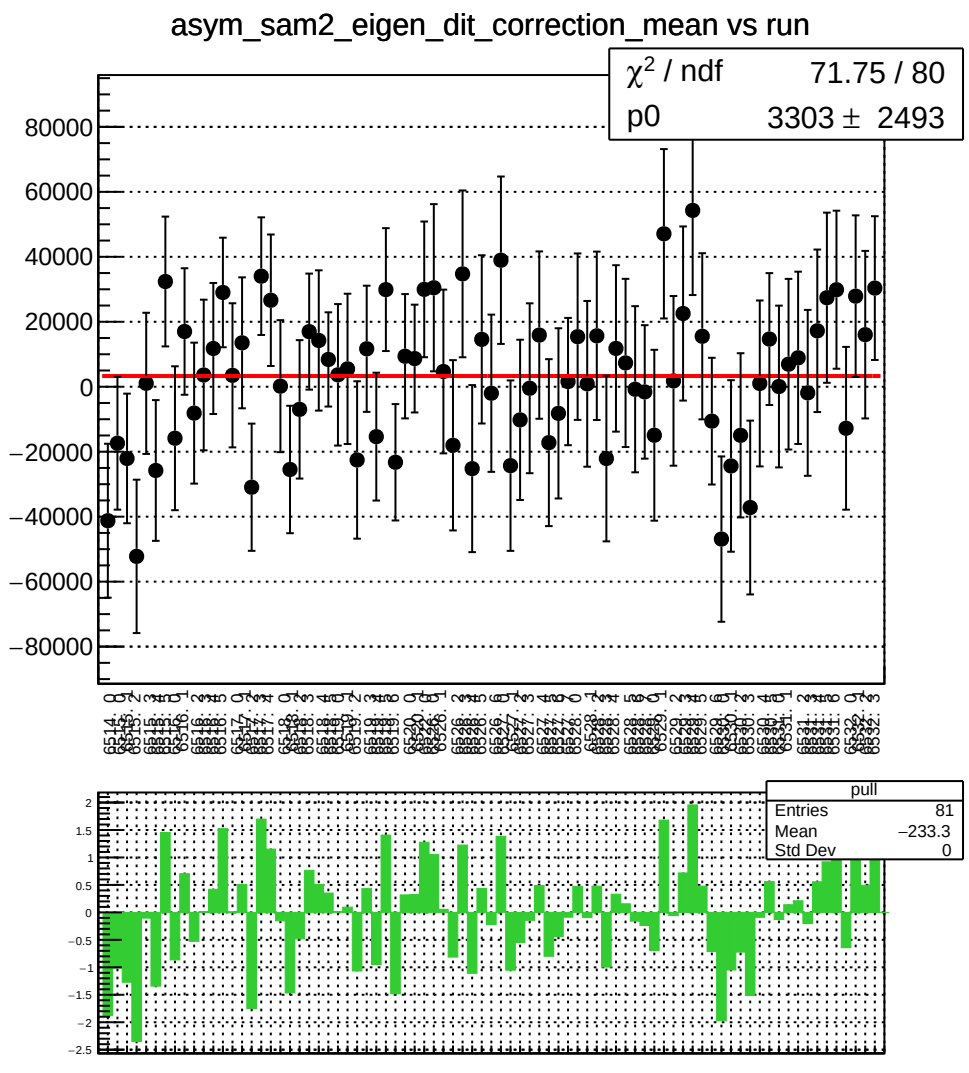

asym_sam2_dit_correction_mean vs run
χ² / ndf 71.75 / 80
p0 3303 ± 2493
pull
Entries 81
Mean −233.3
Std Dev 0

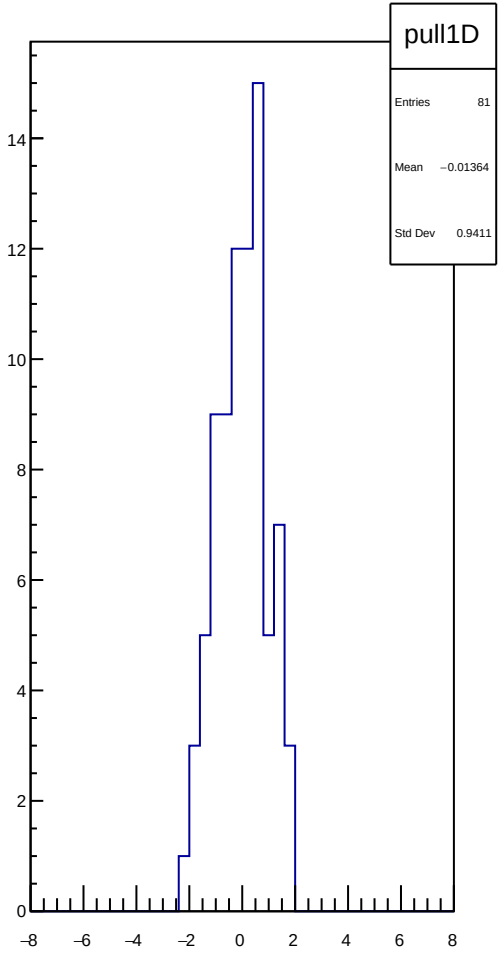

pull1D
Entries 81
Mean −0.01364
Std Dev 0.9411

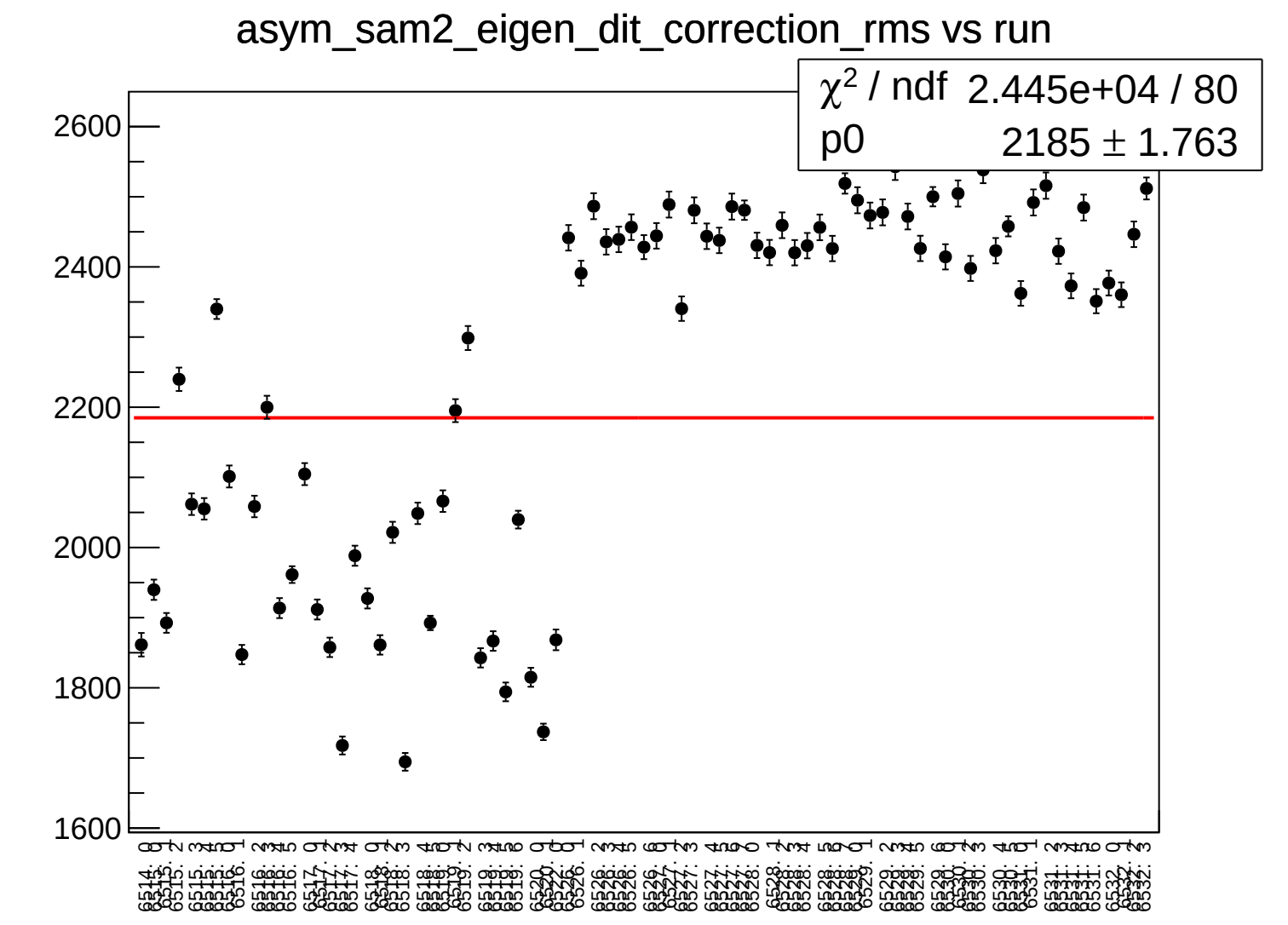

asym_sam2_dit_correction_rms vs run
χ² / ndf 2.445e+04 / 80
p0 2185 ± 1.763
2600
2400
2200
2000
1800
1600

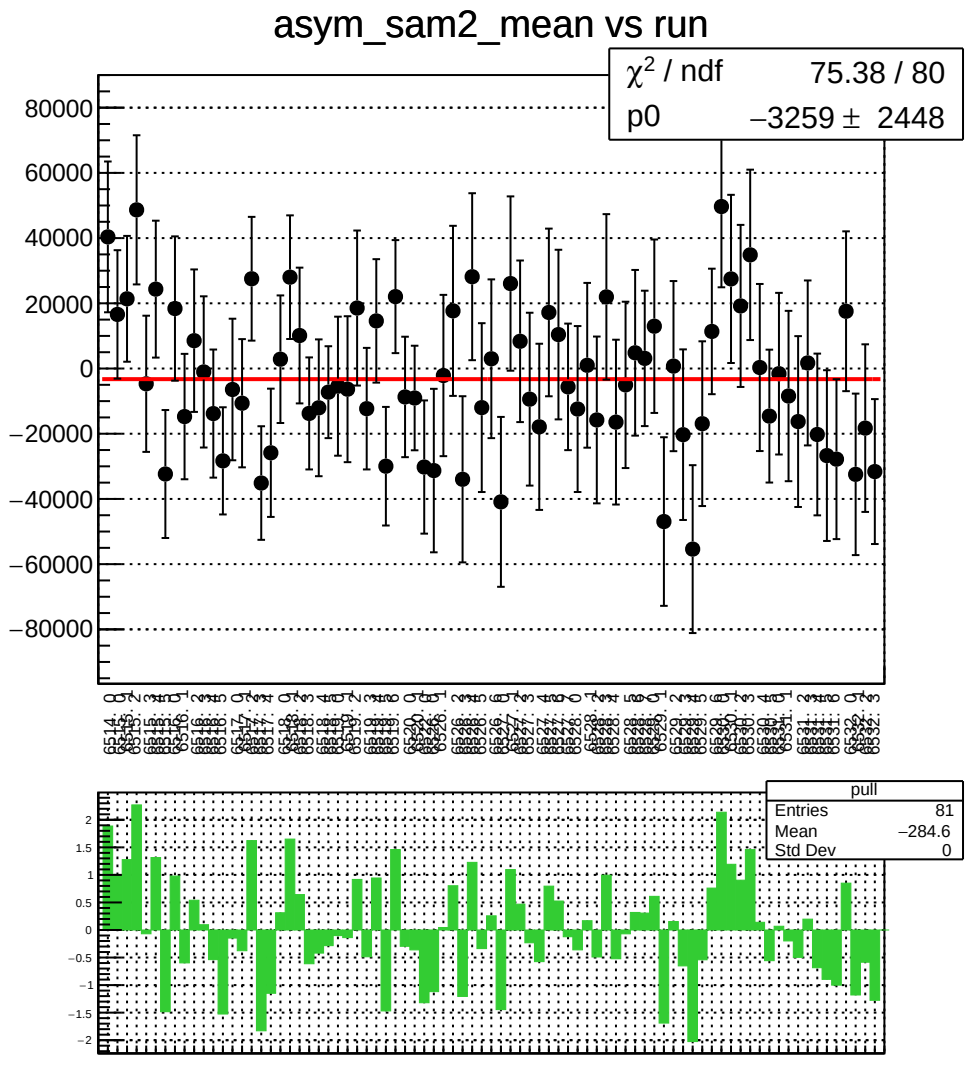

eigen_dit_asym_sam2_mean vs run
χ² / ndf 62.03 / 80
p0 −65.66 ± 320.4
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean −303.4
Std Dev 0
pull1D
Entries 81
Mean 0.001216
Std Dev 0.8751

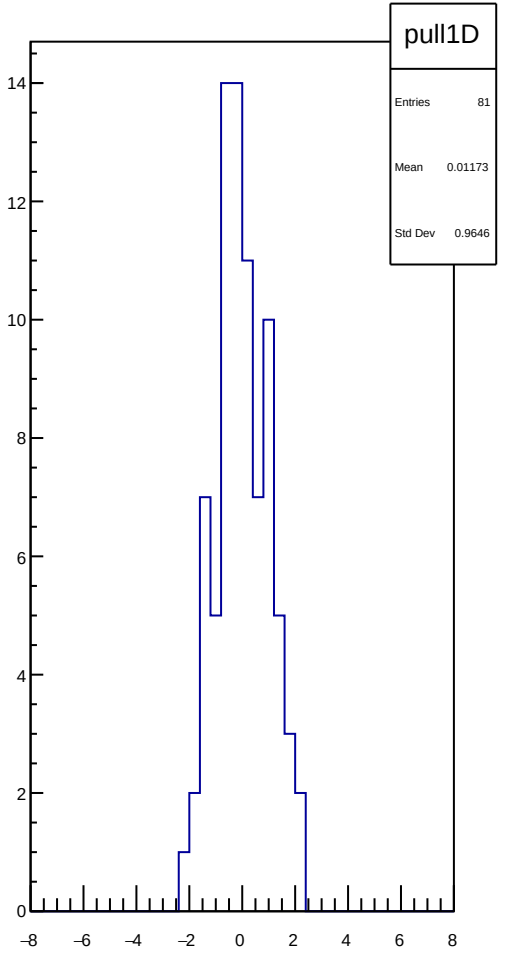

eigen_dit_asym_sam2_rms vs run
χ² / ndf 2616 / 80
p0 282.8 ± 0.2266
320
310
300
290
280
270
260

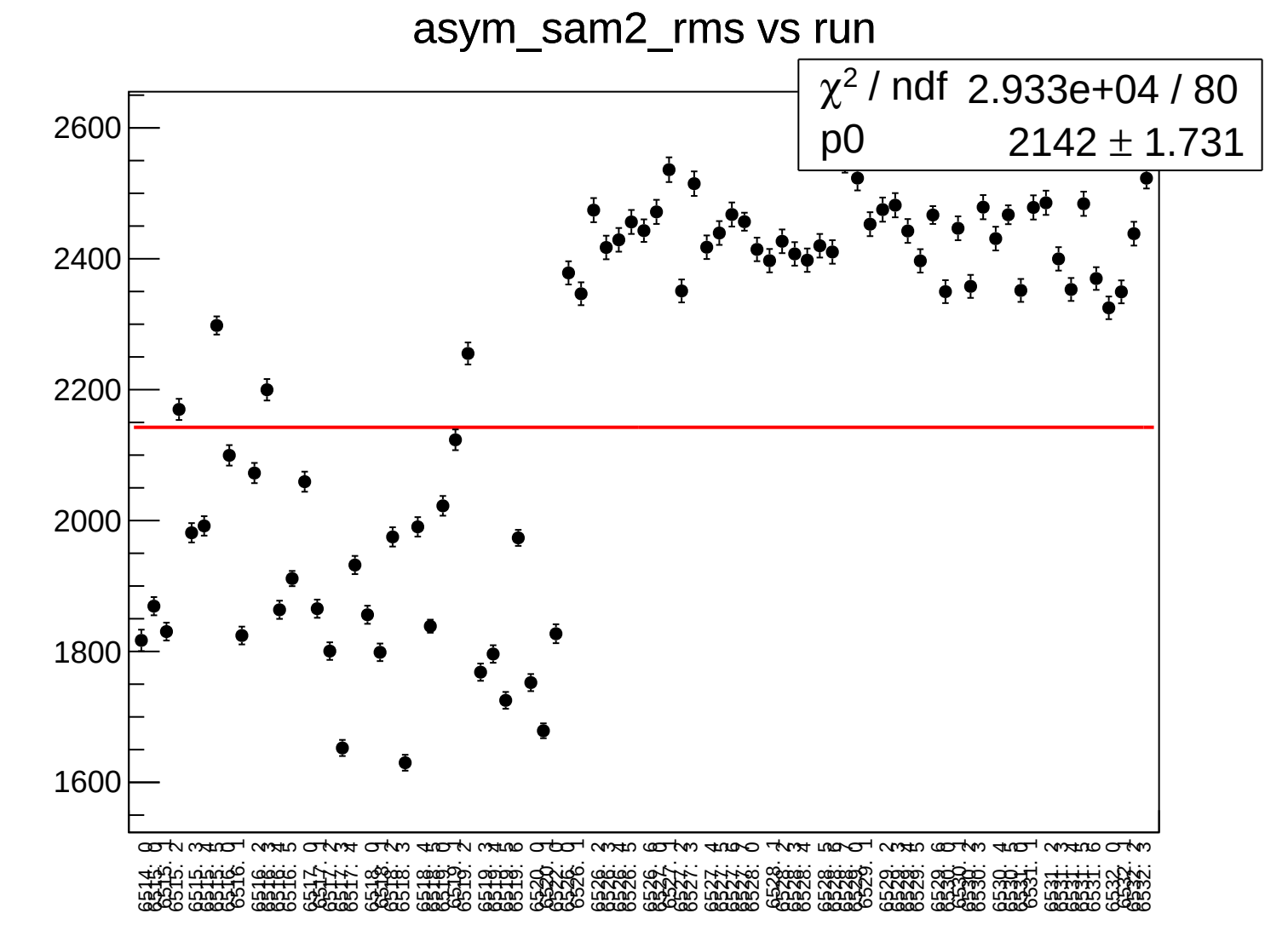

asym_sam2_eigen_dit_correction_mean vs run
χ² / ndf 71.75 / 80
p0 3303 ± 2493
pull
Entries 81
Mean −233.3
Std Dev 0

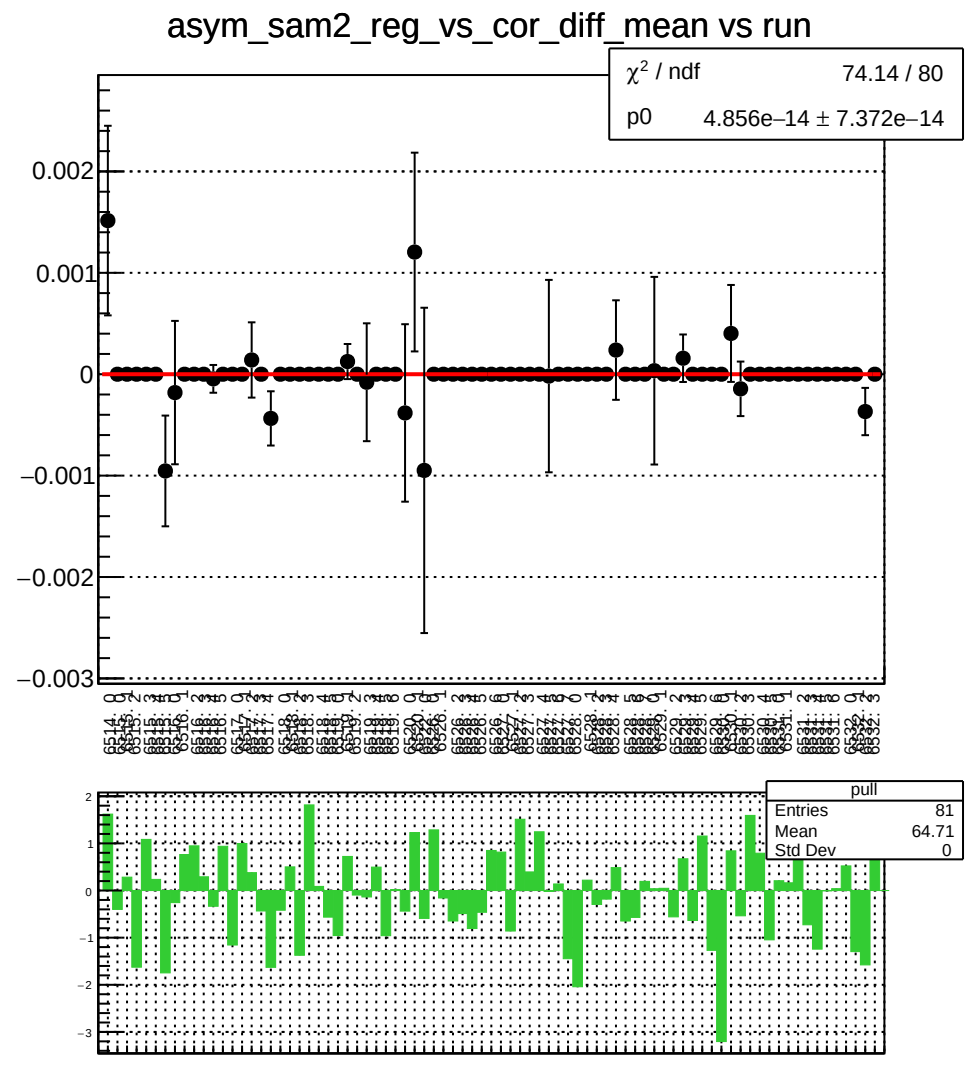

pull1D
Entries 81
Mean −0.01364
Std Dev 0.9411

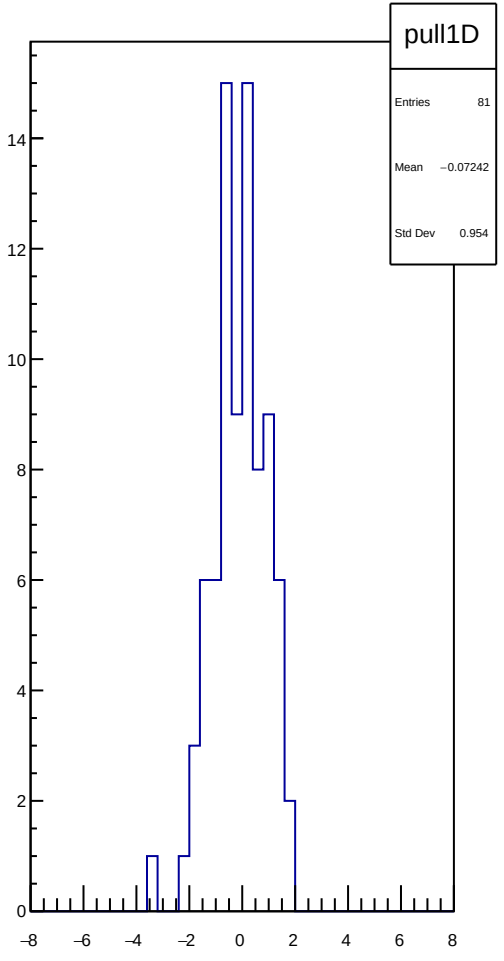

asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 2.445e+04 / 80
p0 2185 ± 1.763
2600
2400
2200
2000
1800
1600

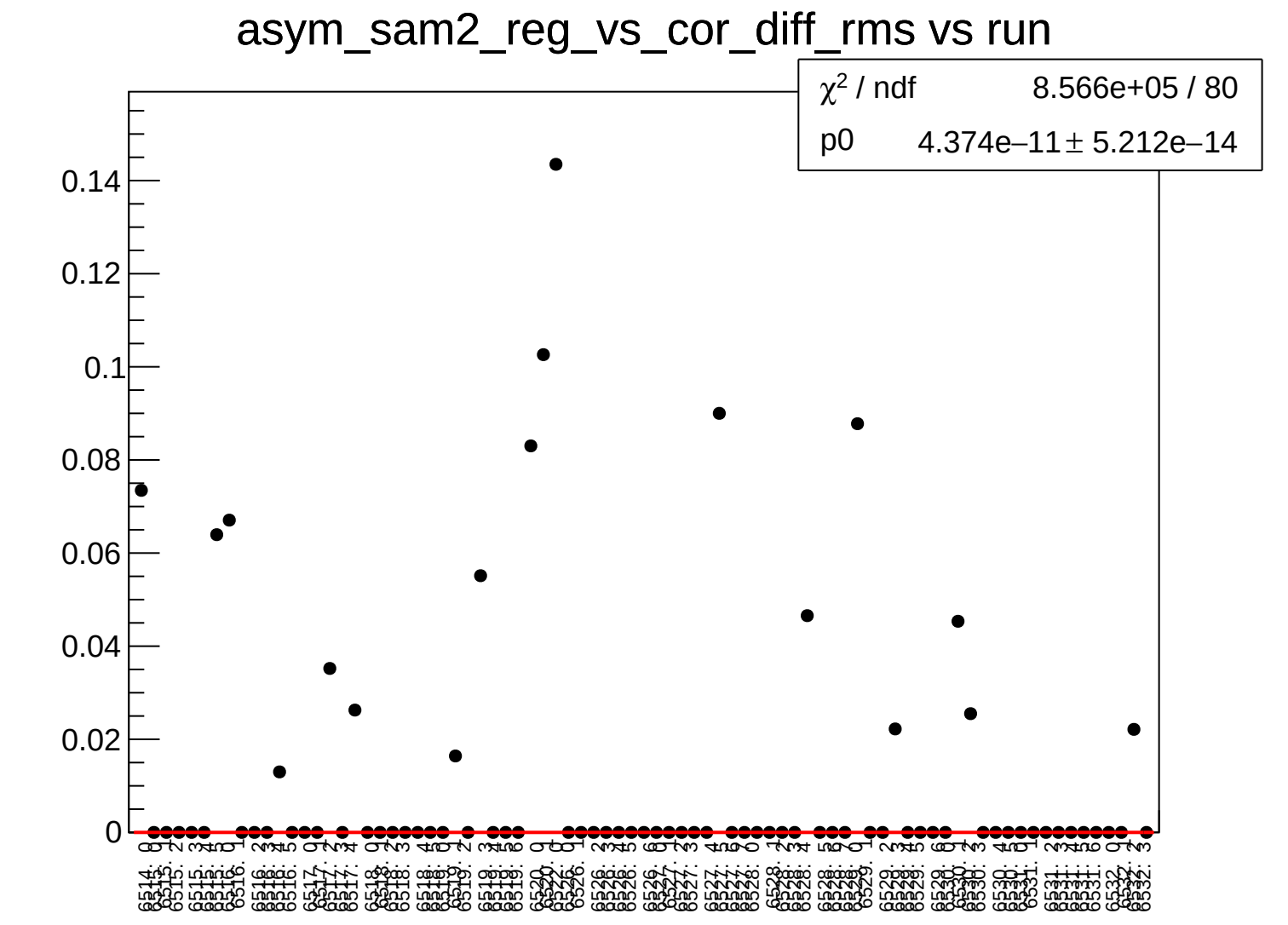

asym_sam2_mean vs run
χ² / ndf 75.38 / 80
p0 −3259 ± 2448
pull
Entries 81
Mean −284.6
Std Dev 0

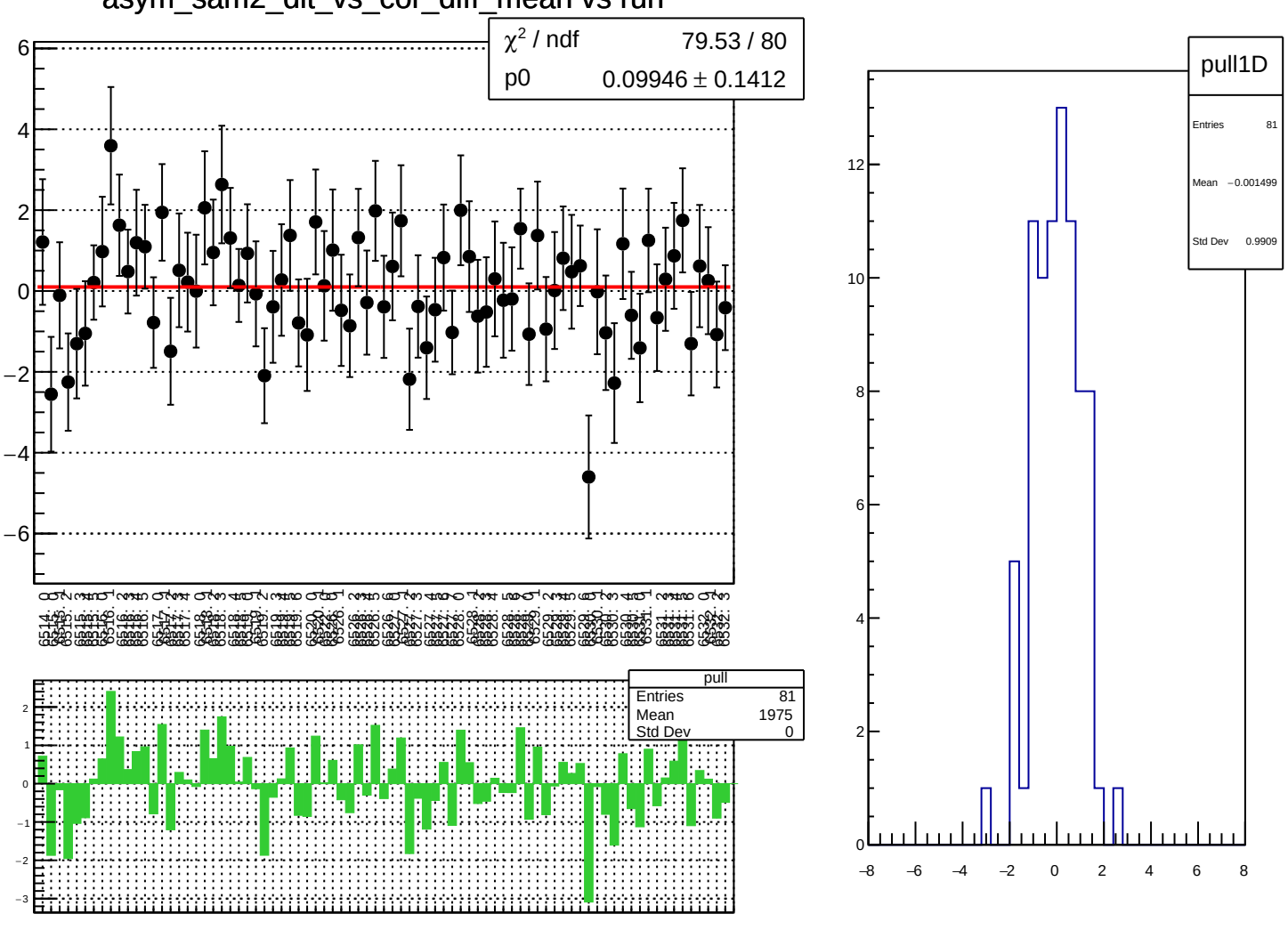

pull1D
Entries 81
Mean 0.01173
Std Dev 0.9646

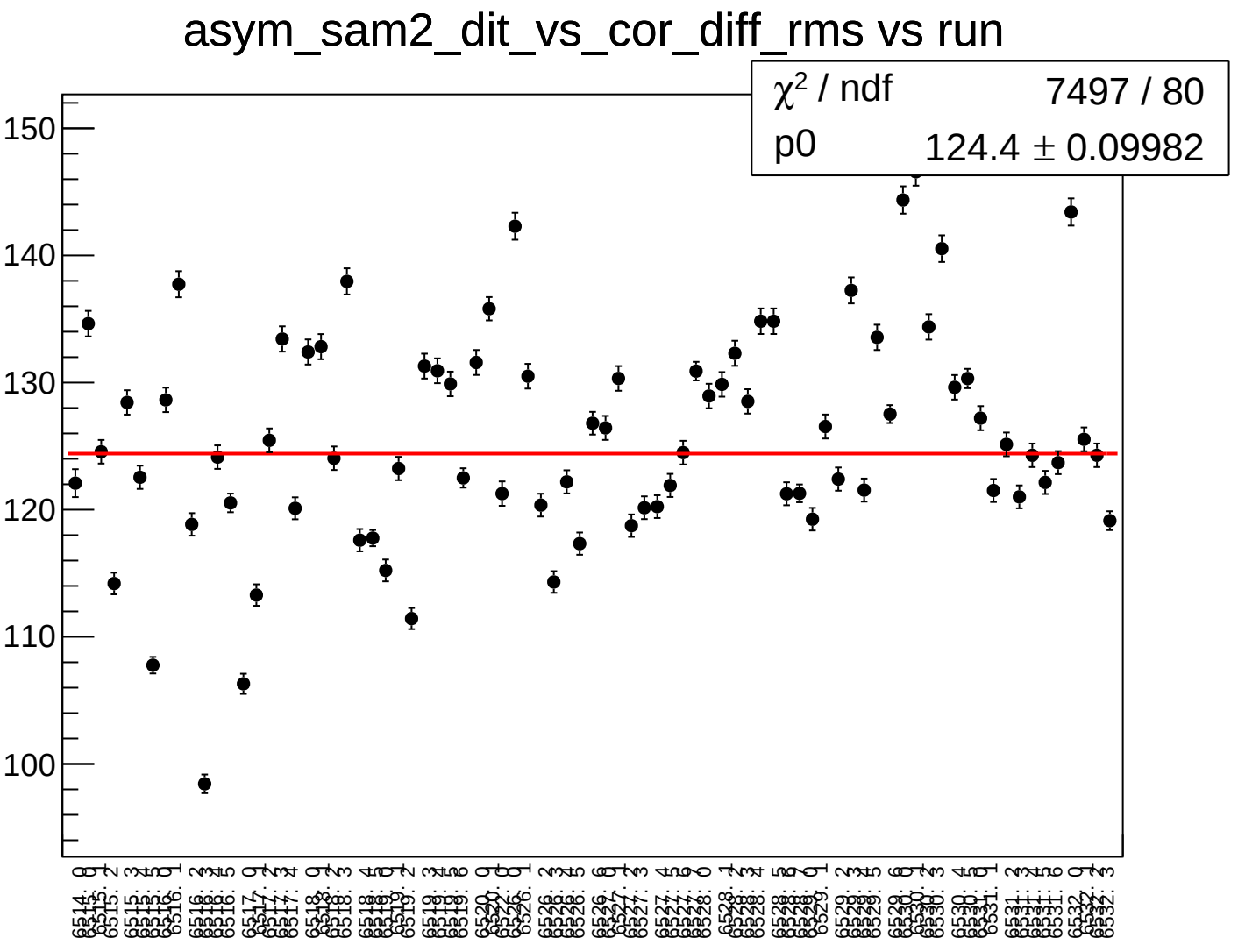

asym_sam2_rms vs run
χ² / ndf 2.933e+04 / 80
p0 2142 ± 1.731
2600
2400
2200
2000
1800
1600

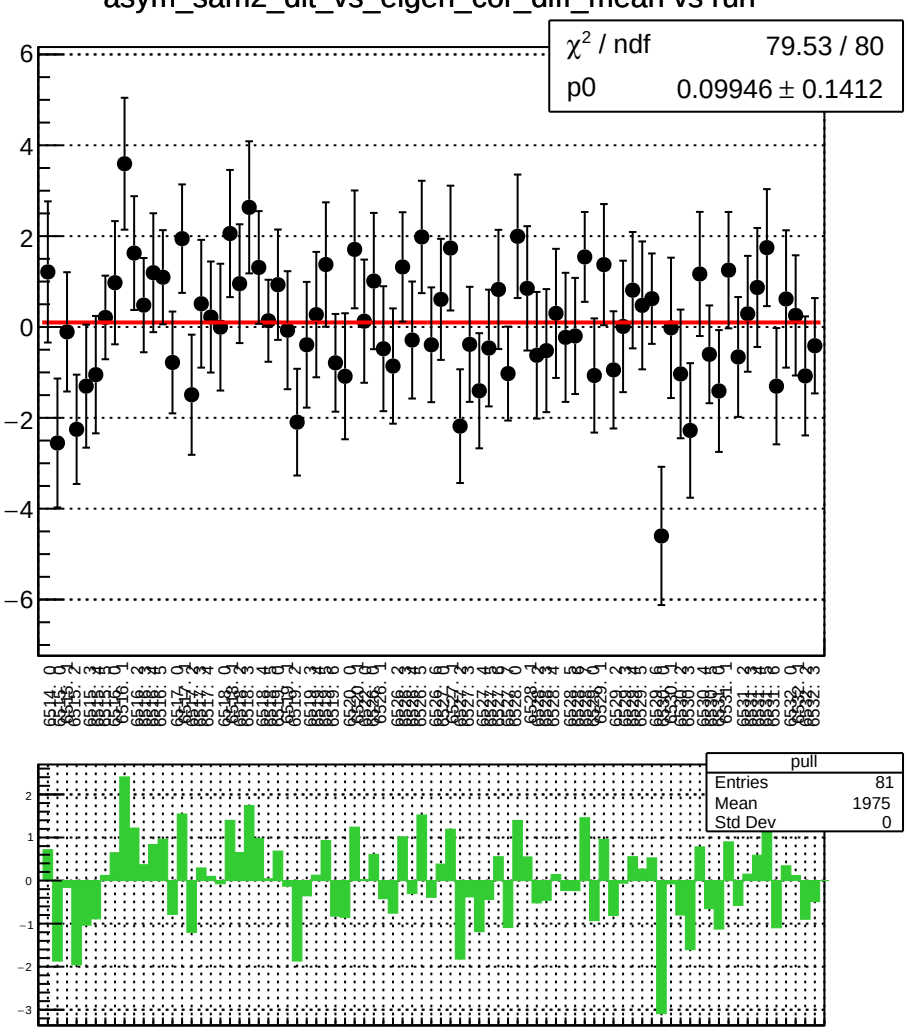

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 74.14 / 80
p0 4.856e−14 ± 7.372e−14
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 81
Mean 64.71
Std Dev 0

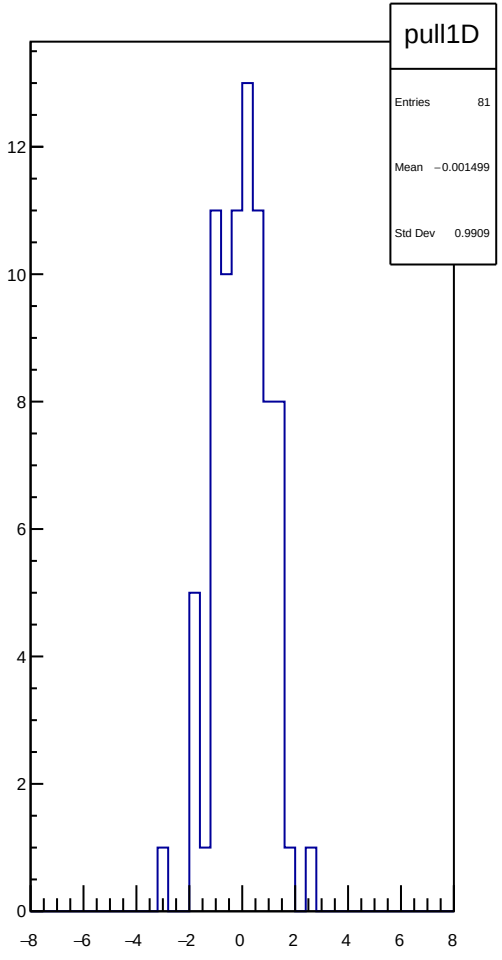

pull1D
Entries 81
Mean −0.07242
Std Dev 0.954
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

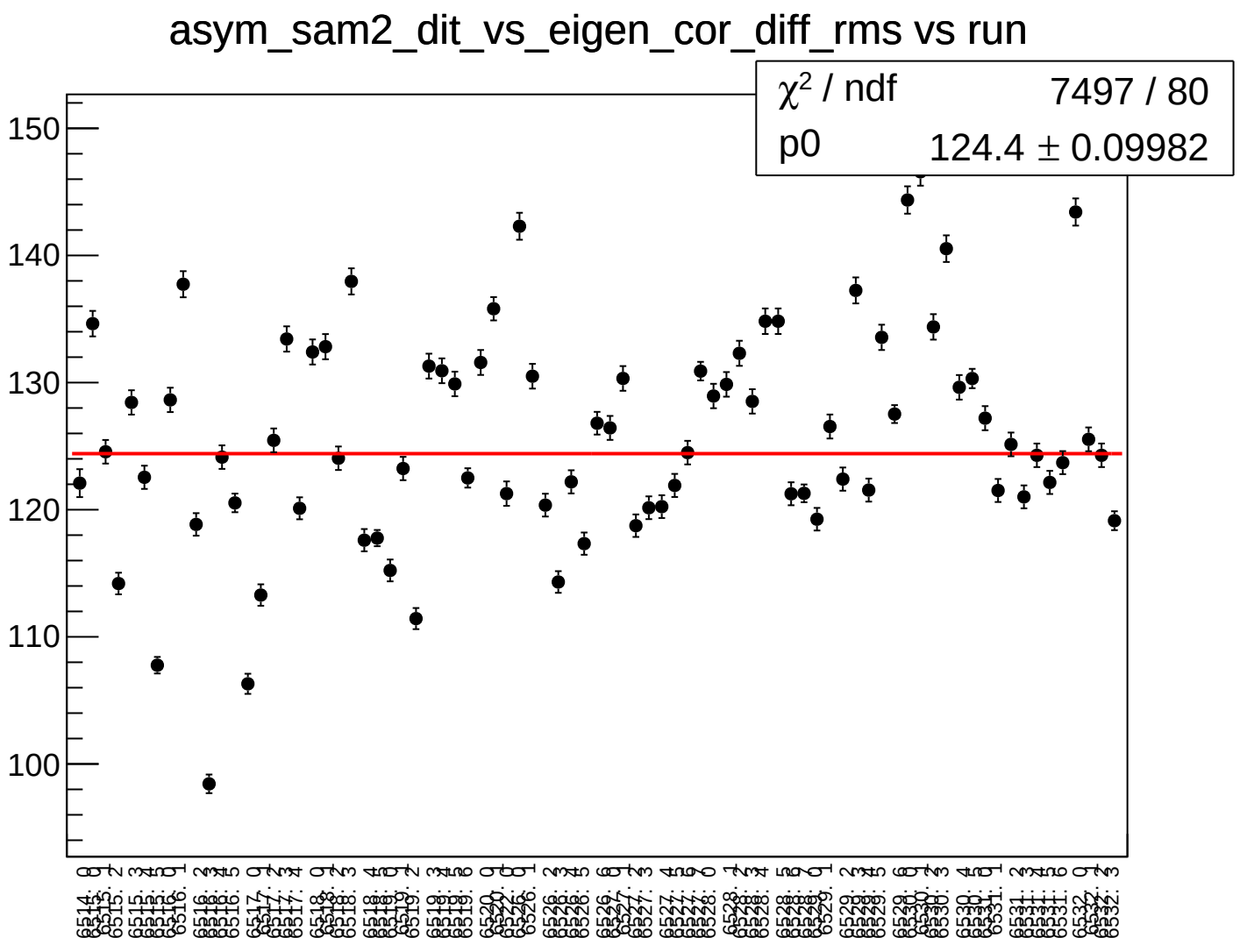

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 8.566e+05 / 80
p0 4.374e−11 ± 5.212e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

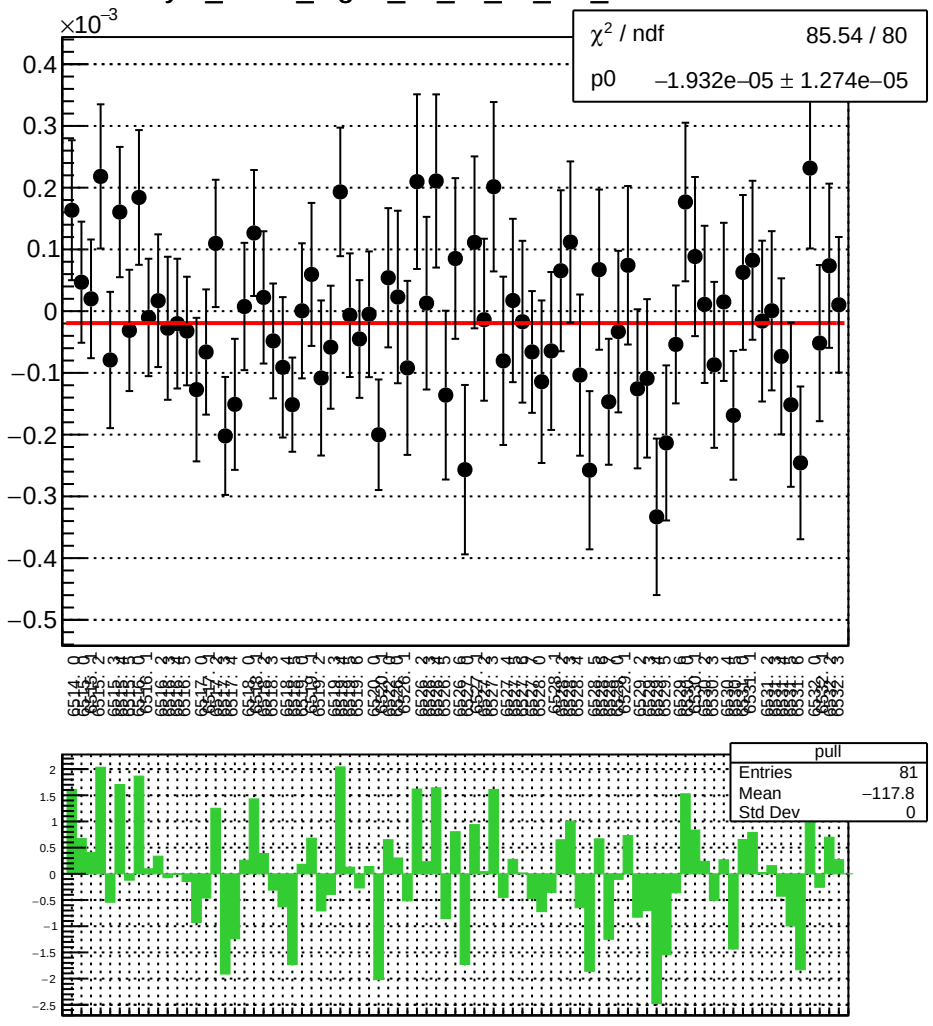

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 79.53 / 80
p0 0.09946 ± 0.1412
pull
Entries 81
Mean 1975
Std Dev 0
pull1D
Entries 81
Mean −0.001499
Std Dev 0.9909

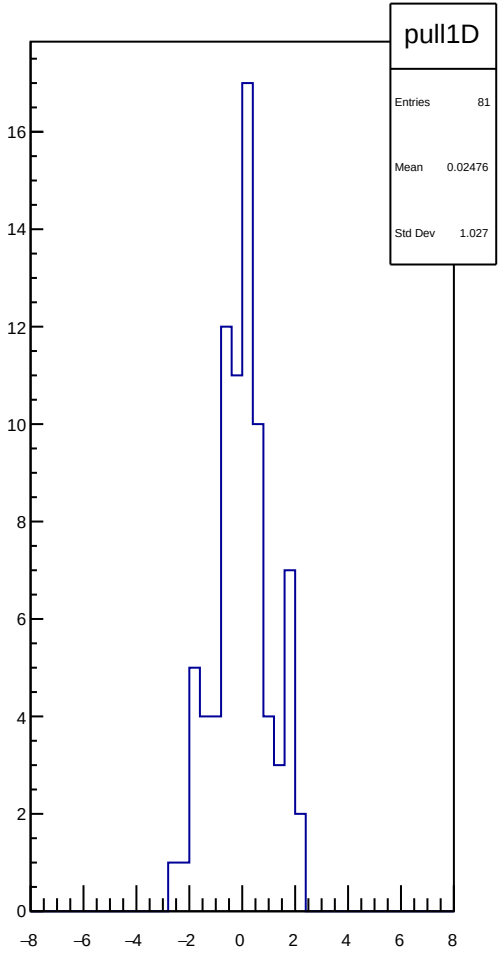

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 7497 / 80
p0 124.4 ± 0.09982
150
140
130
120
110
100

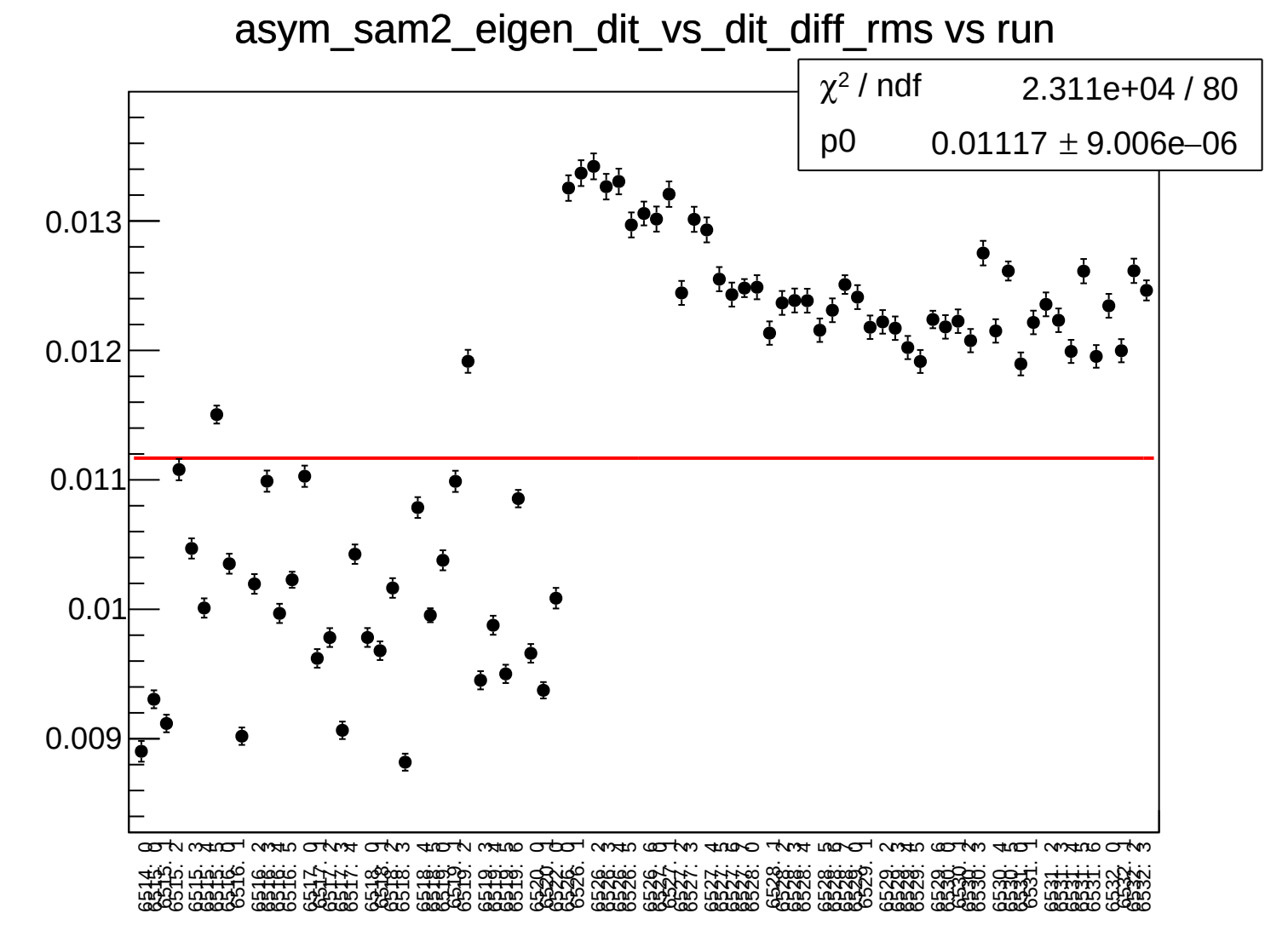

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.53 / 80
p0 0.09946 ± 0.1412
pull
Entries 81
Mean 1975
Std Dev 0

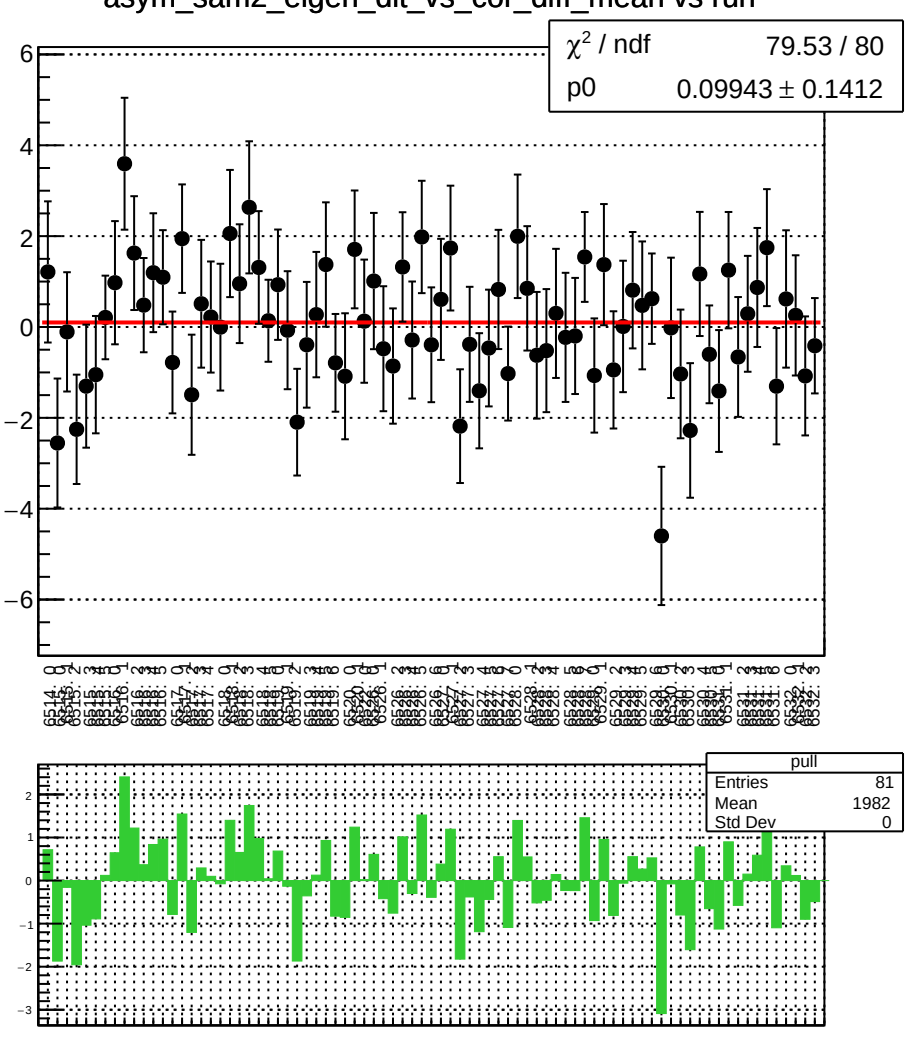

pull1D
Entries 81
Mean −0.001499
Std Dev 0.9909

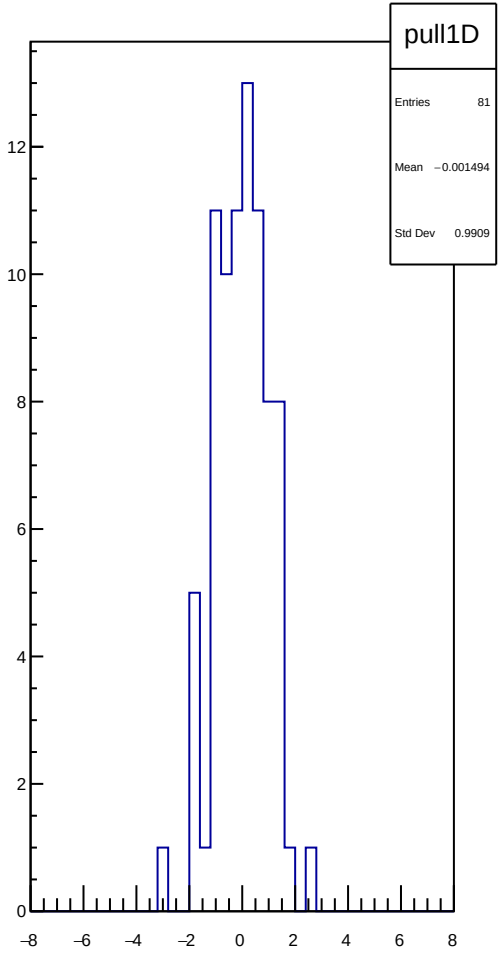

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7497 / 80
p0 124.4 ± 0.09982
150
140
130
120
110
100

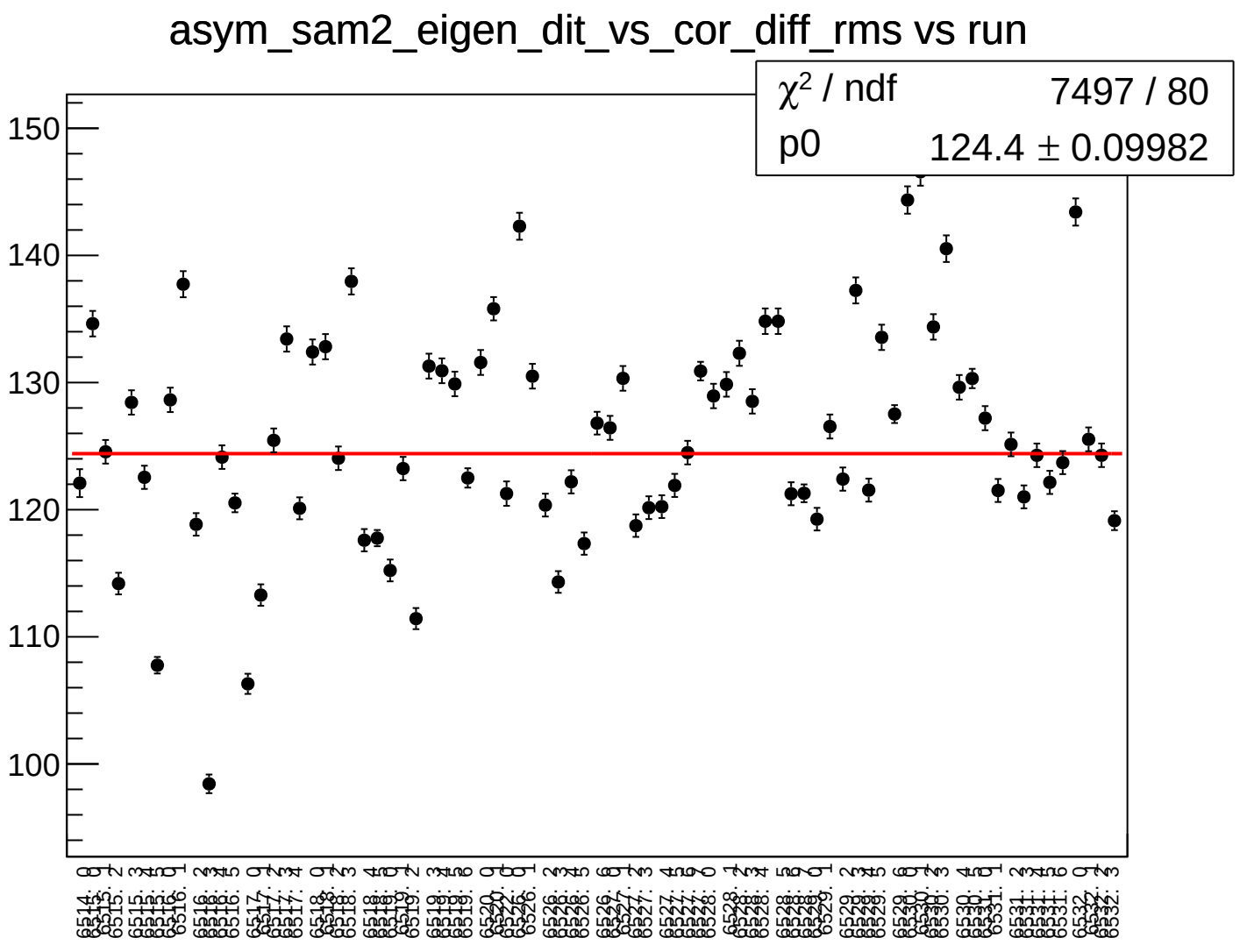

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.54 / 80
p0 −1.932e−05 ± 1.274e−05
pull
Entries 81
Mean −117.8
Std Dev 0

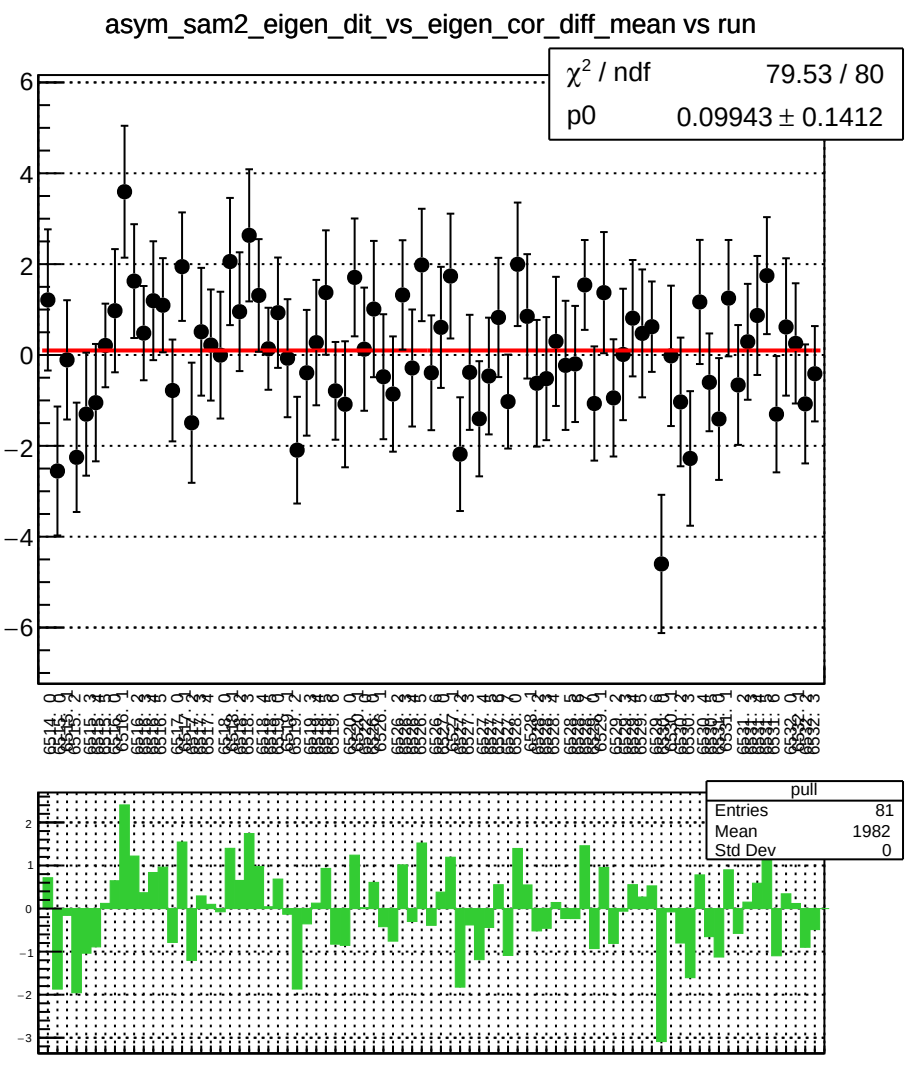

pull1D
Entries 81
Mean 0.02476
Std Dev 1.027

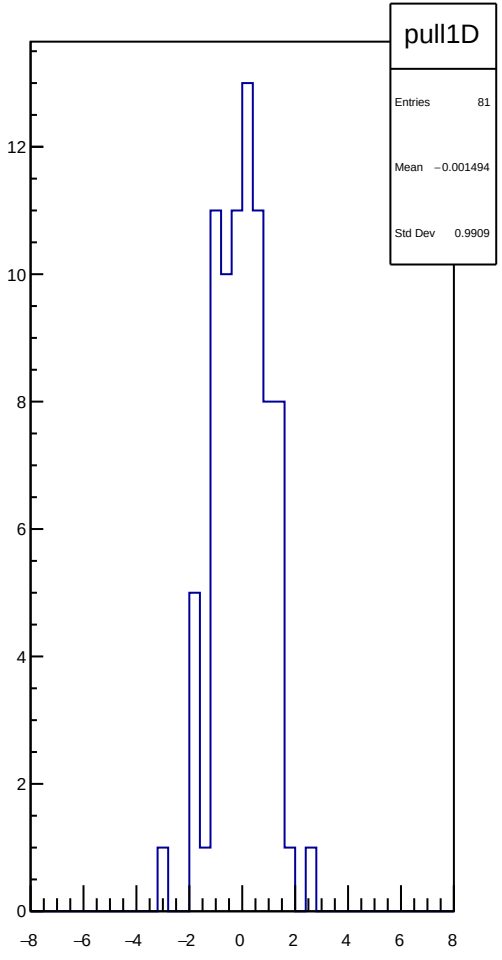

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.311e+04 / 80
p0 0.01117 ± 9.006e–06
0.013
0.012
0.011
0.01
0.009

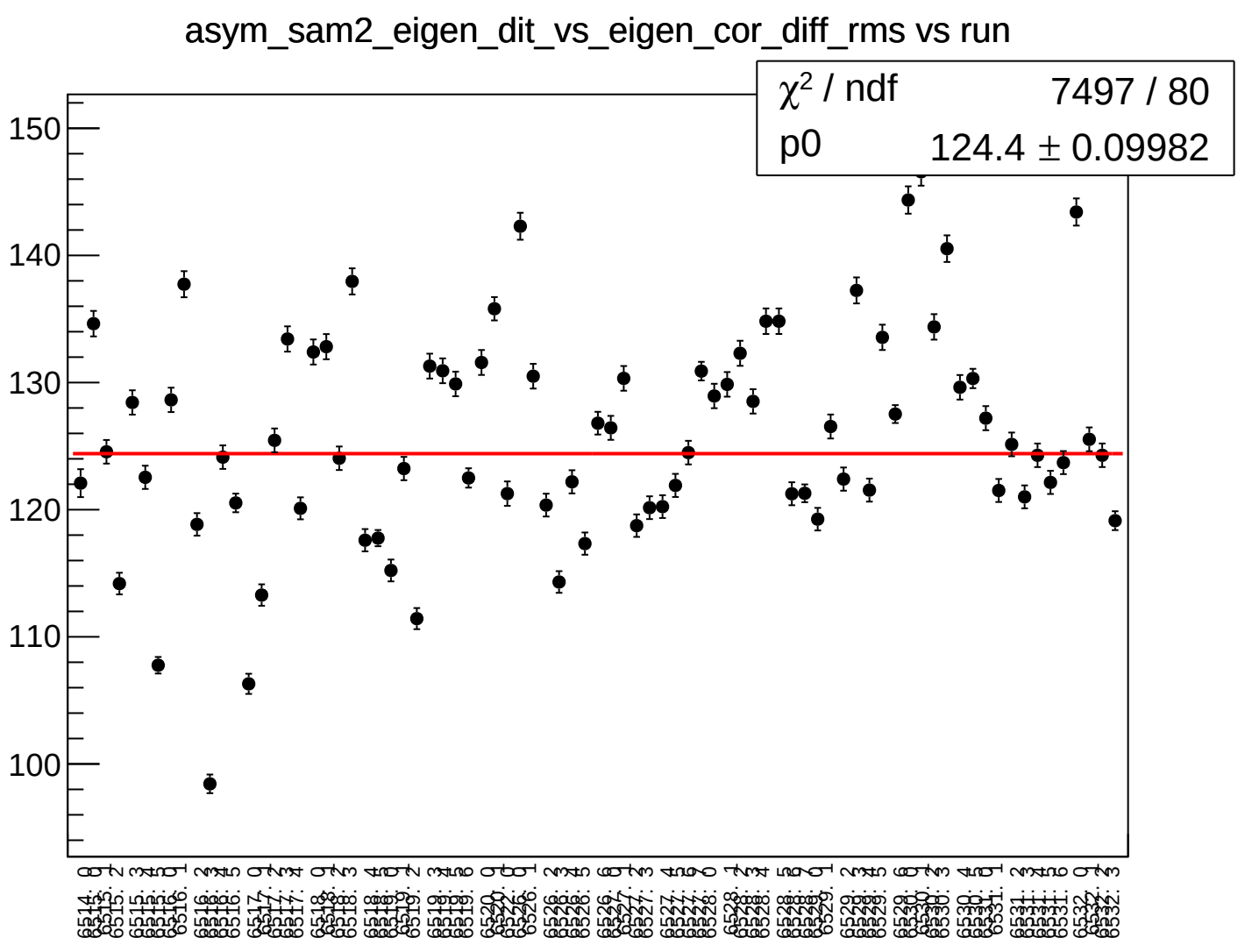

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.53 / 80
p0 0.09943 ± 0.1412
pull
Entries 81
Mean 1982
Std Dev 0

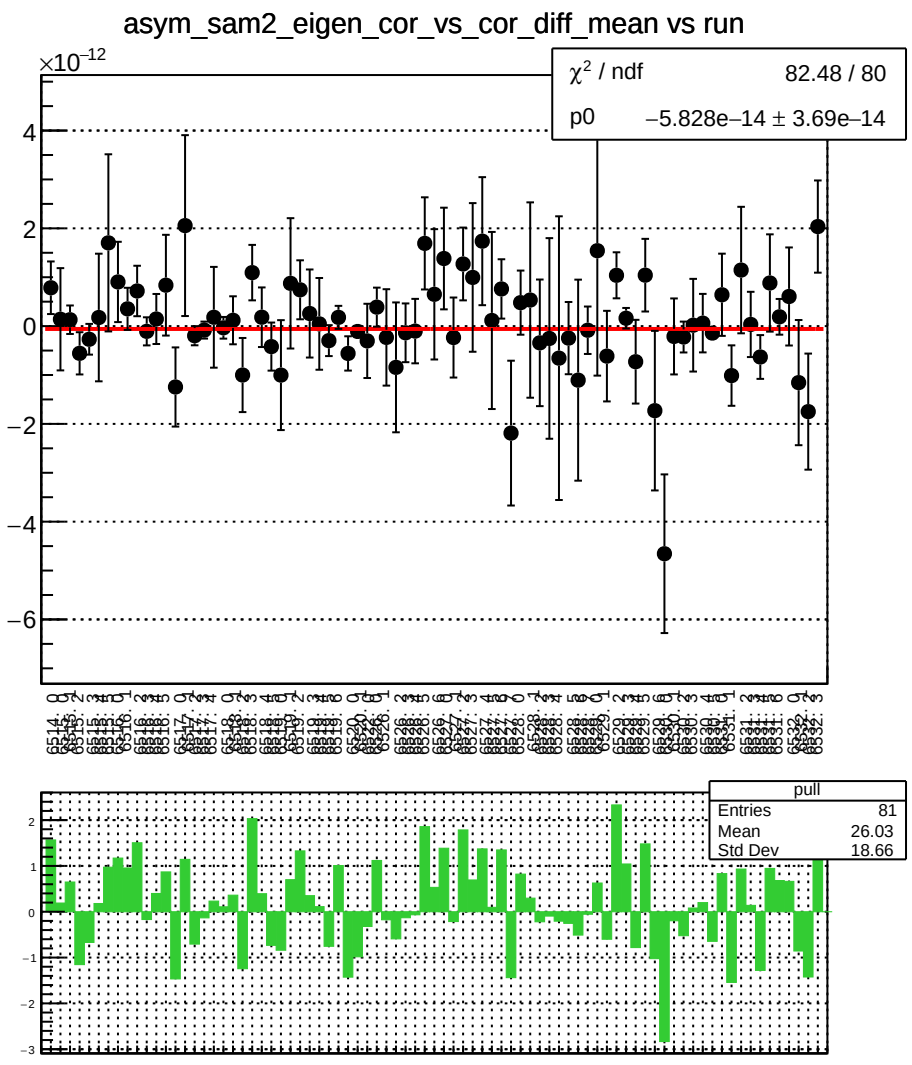

pull1D
Entries 81
Mean −0.001494
Std Dev 0.9909

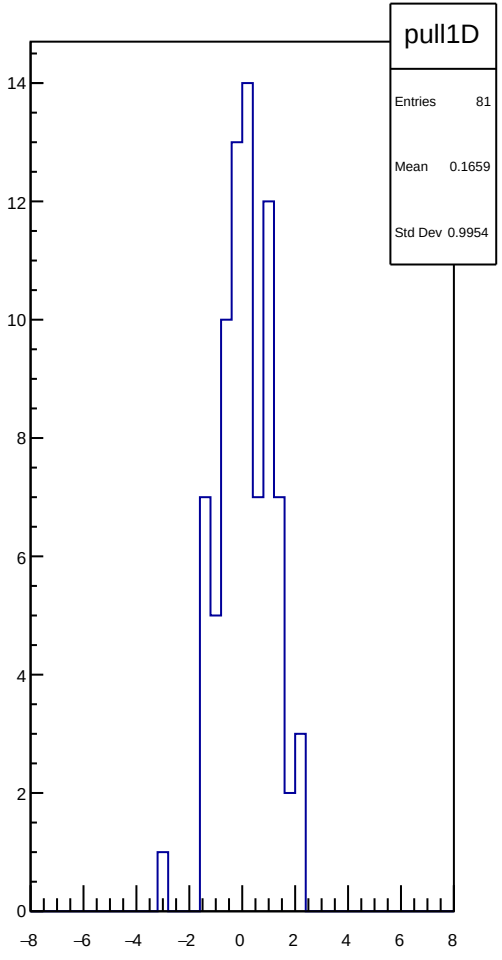

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7497 / 80
p0 124.4 ± 0.09982
150
140
130
120
110
100

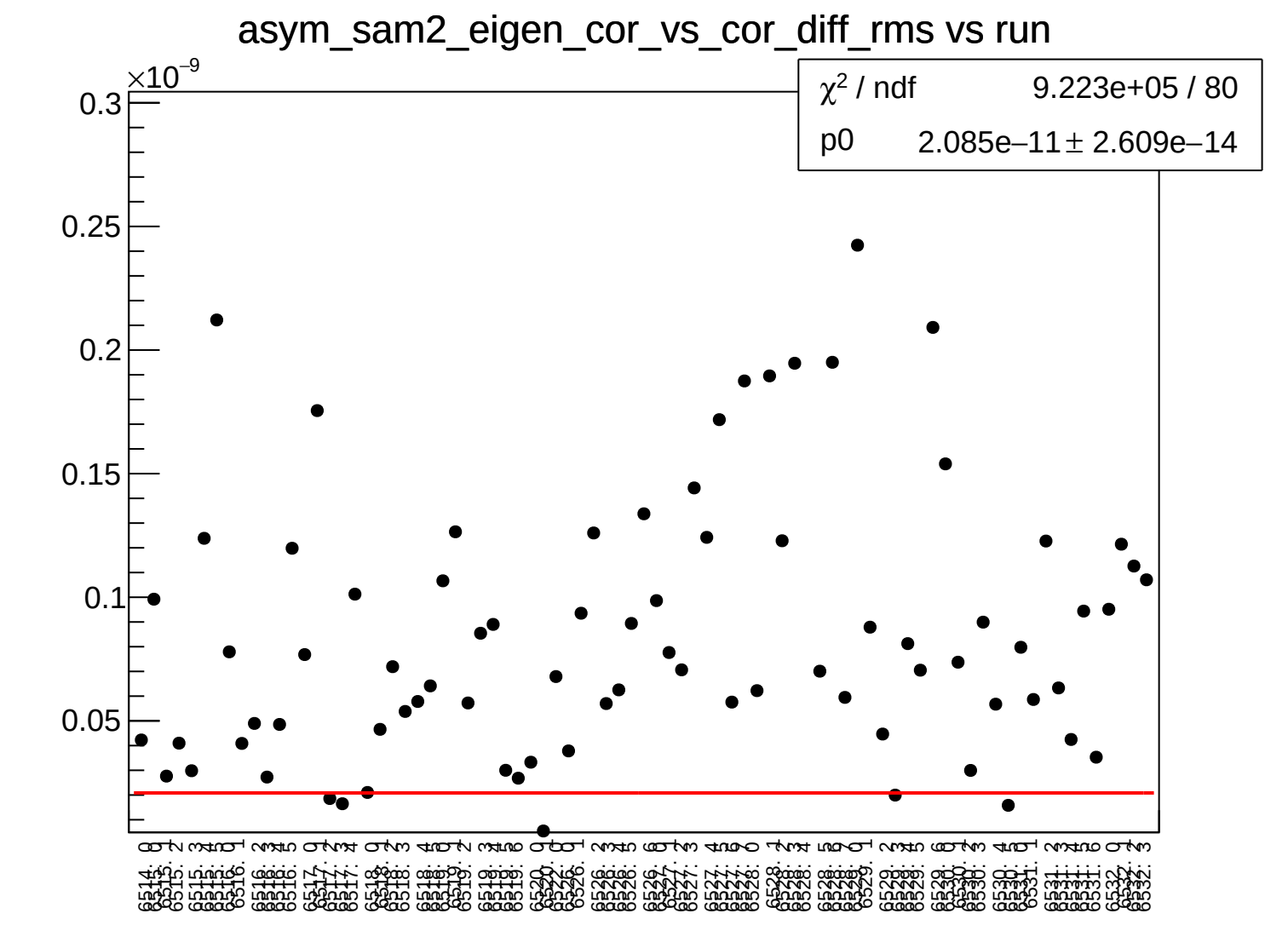

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.53 / 80
p0 0.09943 ± 0.1412
pull
Entries 81
Mean 1982
Std Dev 0

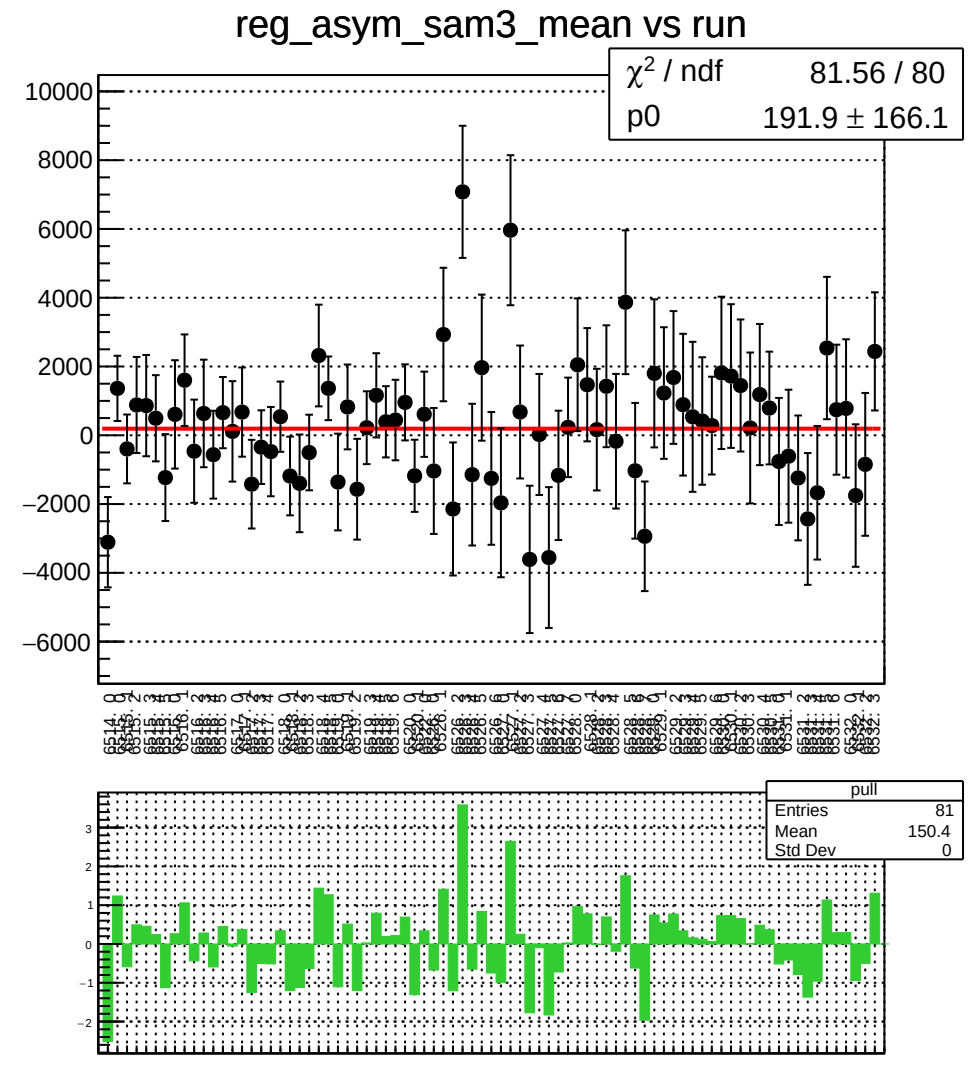

pull1D
Entries 81
Mean −0.001494
Std Dev 0.9909

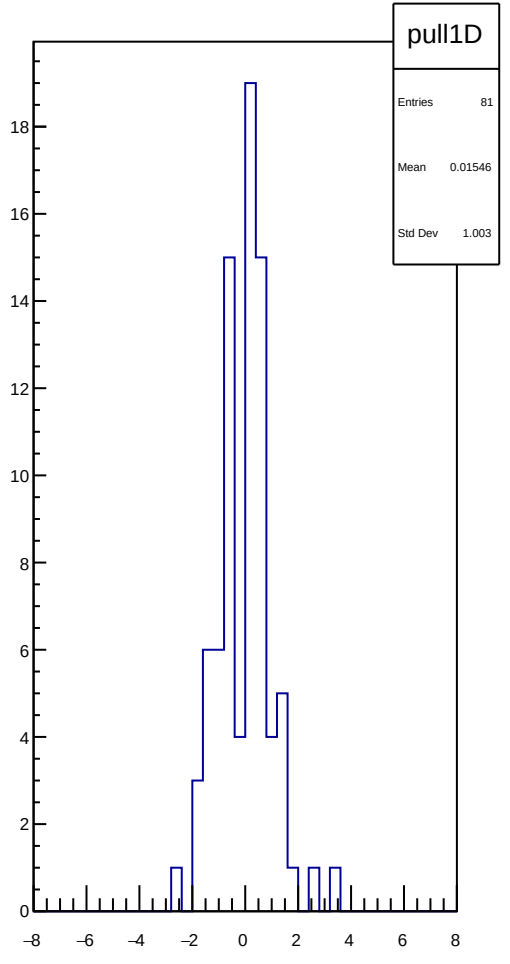

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7497 / 80
p0 124.4 ± 0.09982
150
140
130
120
110
100

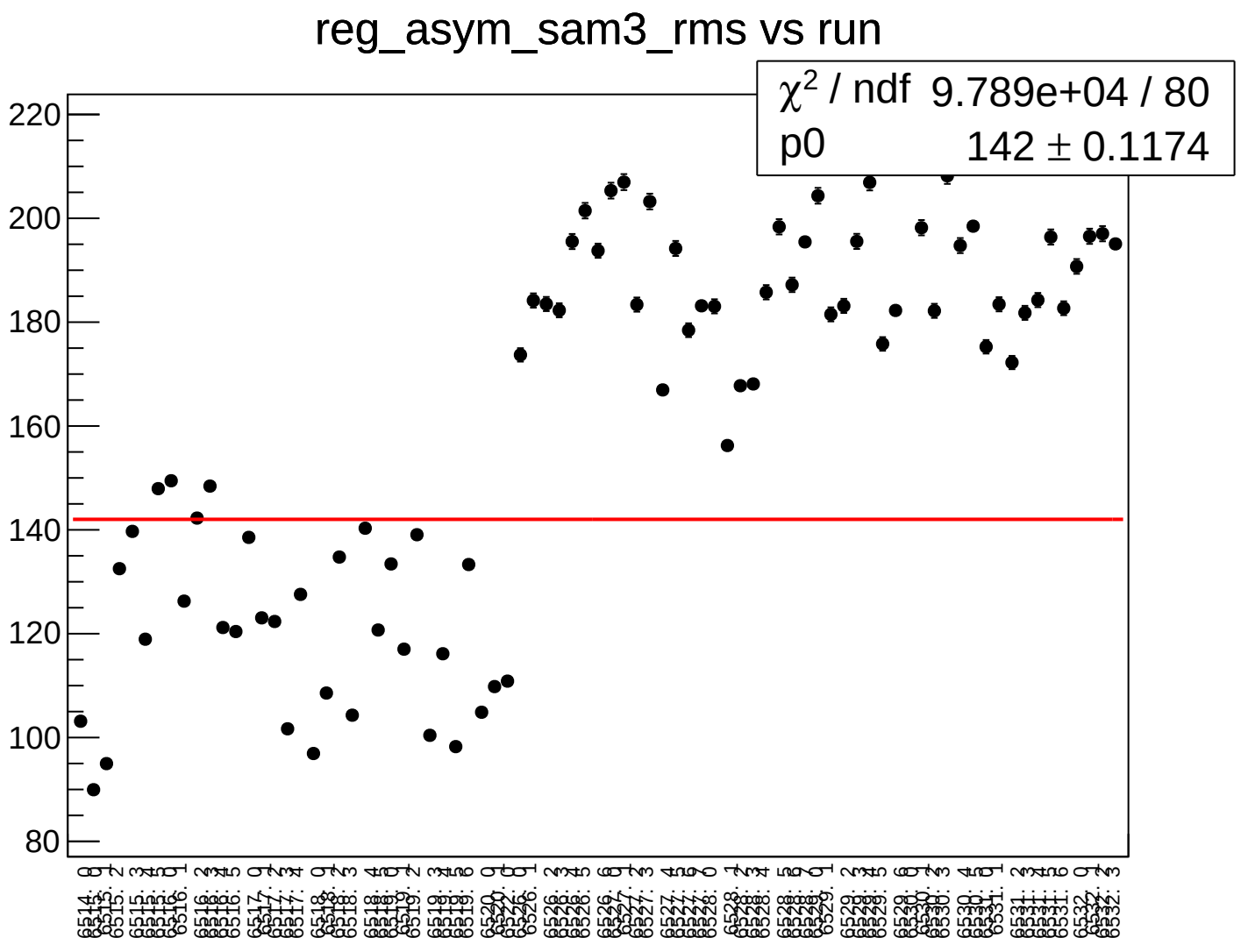

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.48 / 80
p0 −5.828e−14 ± 3.69e−14
pull
Entries 81
Mean 26.03
Std Dev 18.66

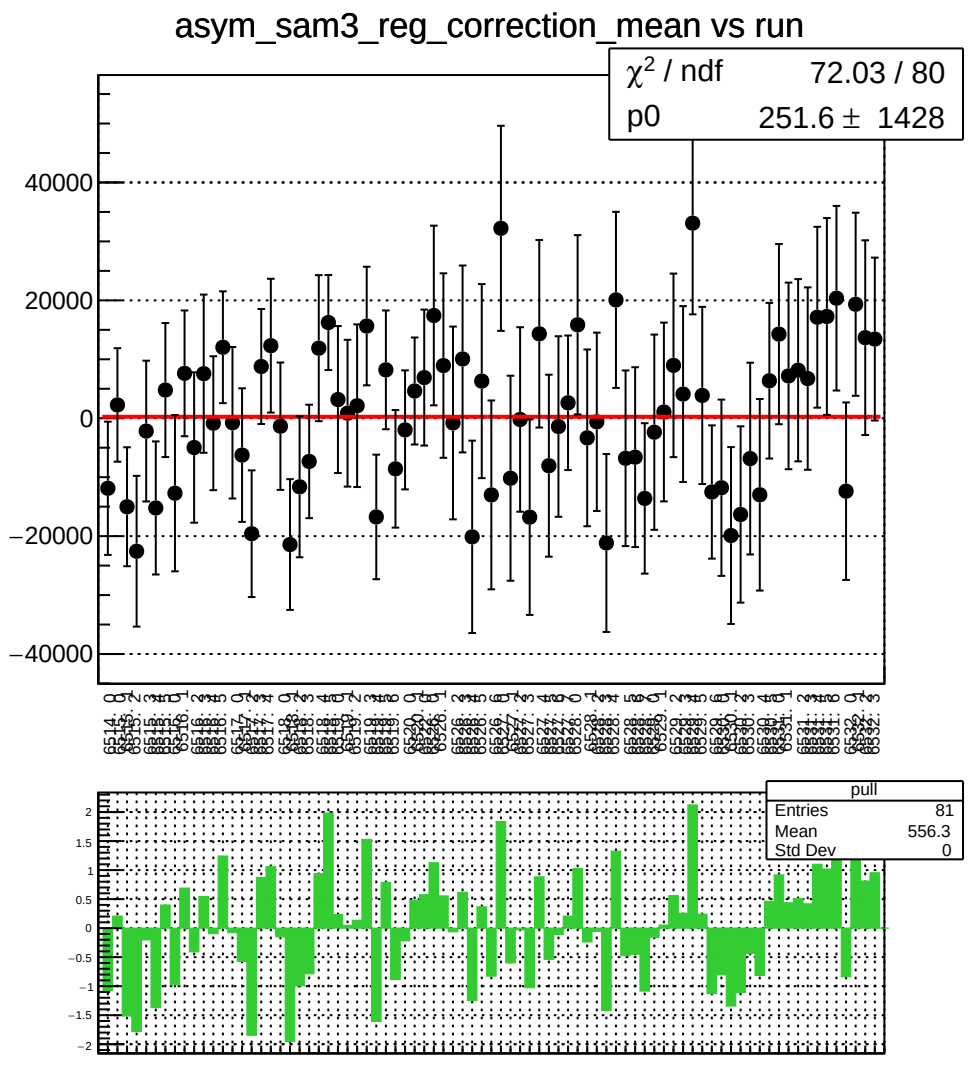

pull1D
Entries 81
Mean 0.1659
Std Dev 0.9954

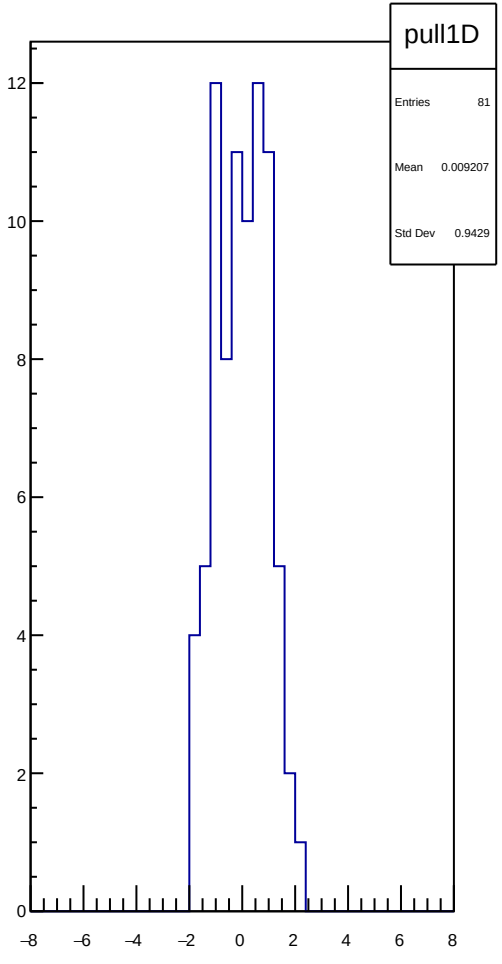

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.3
0.25
0.2
0.15
0.1
0.05
χ² / ndf 9.223e+05 / 80
p0 2.085e−11 ± 2.609e−14

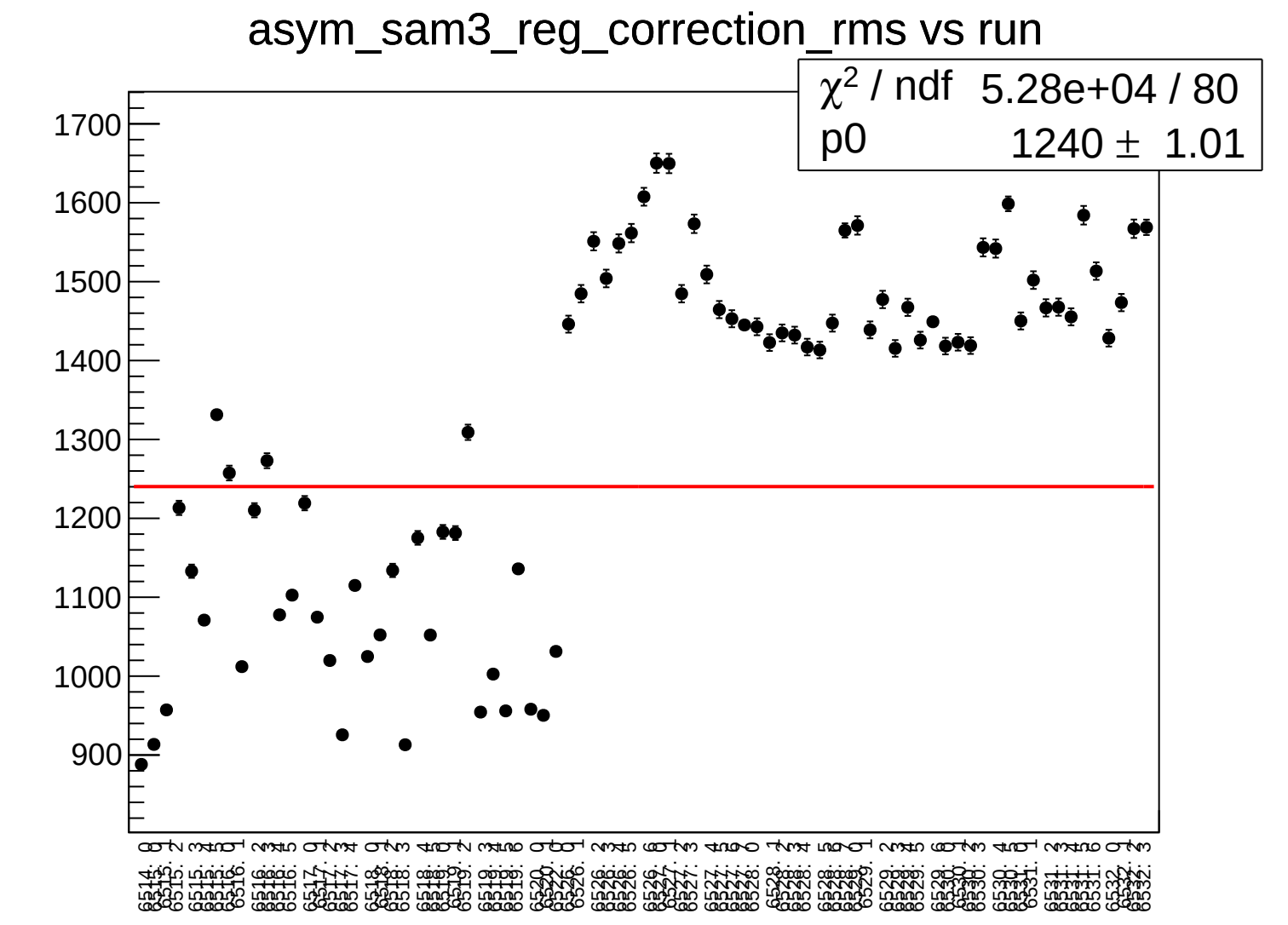

reg_asym_sam3_mean vs run
χ² / ndf 81.56 / 80
p0 191.9 ± 166.1
pull
Entries 81
Mean 150.4
Std Dev 0

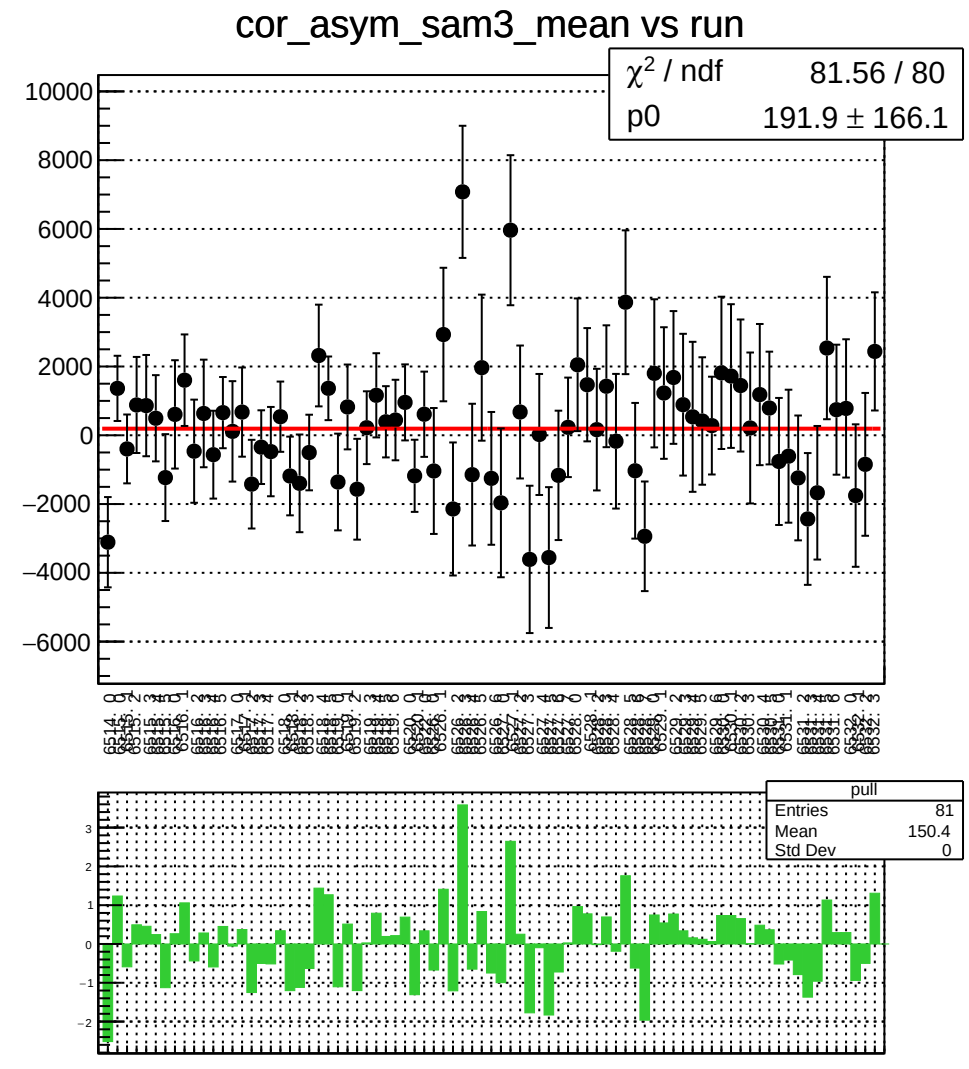

pull1D
Entries 81
Mean 0.01546
Std Dev 1.003

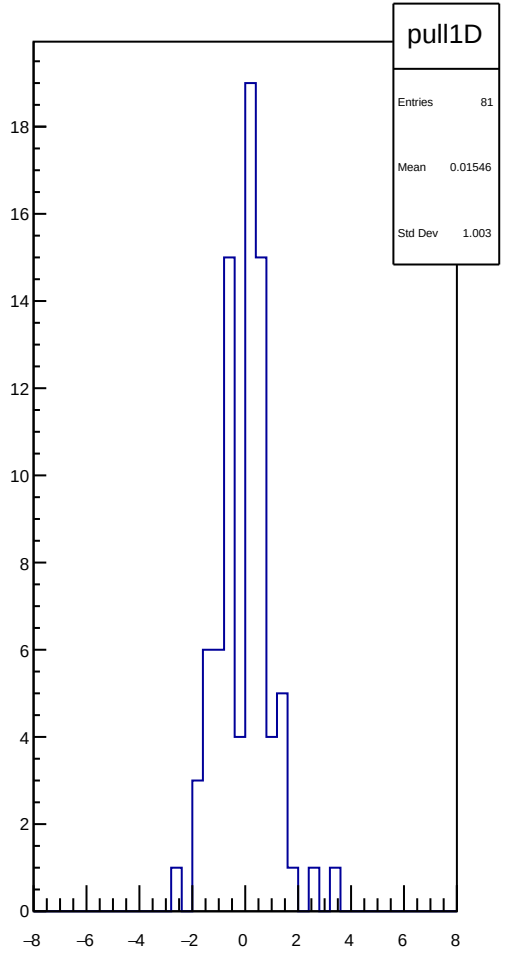

reg_asym_sam3_rms vs run
χ² / ndf 9.789e+04 / 80
p0 142 ± 0.1174
220
200
180
160
140
120
100
80

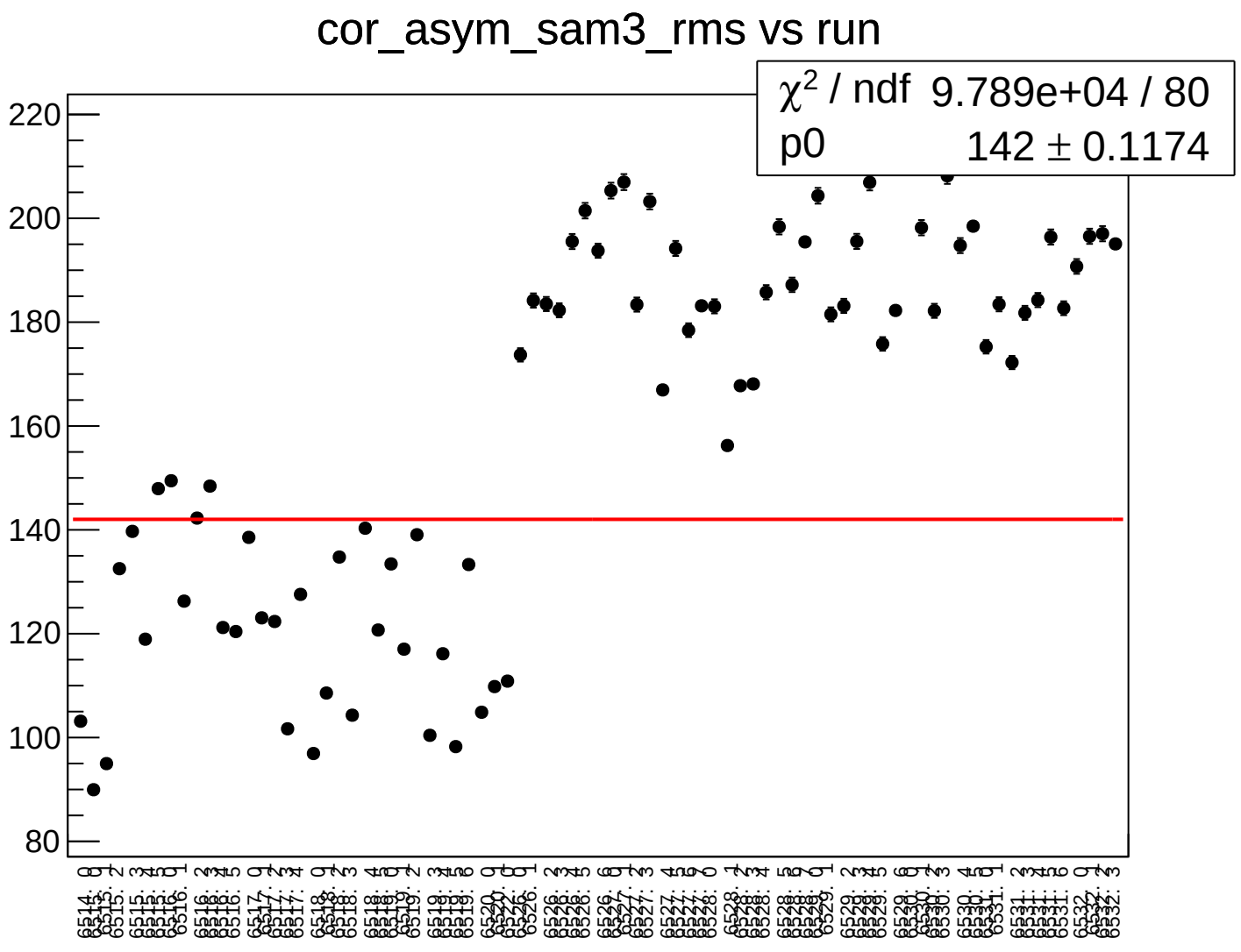

asym_sam3_reg_correction_mean vs run
χ² / ndf 72.03 / 80
p0 251.6 ± 1428
40000
20000
0
−20000
−40000
pull
Entries 81
Mean 556.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

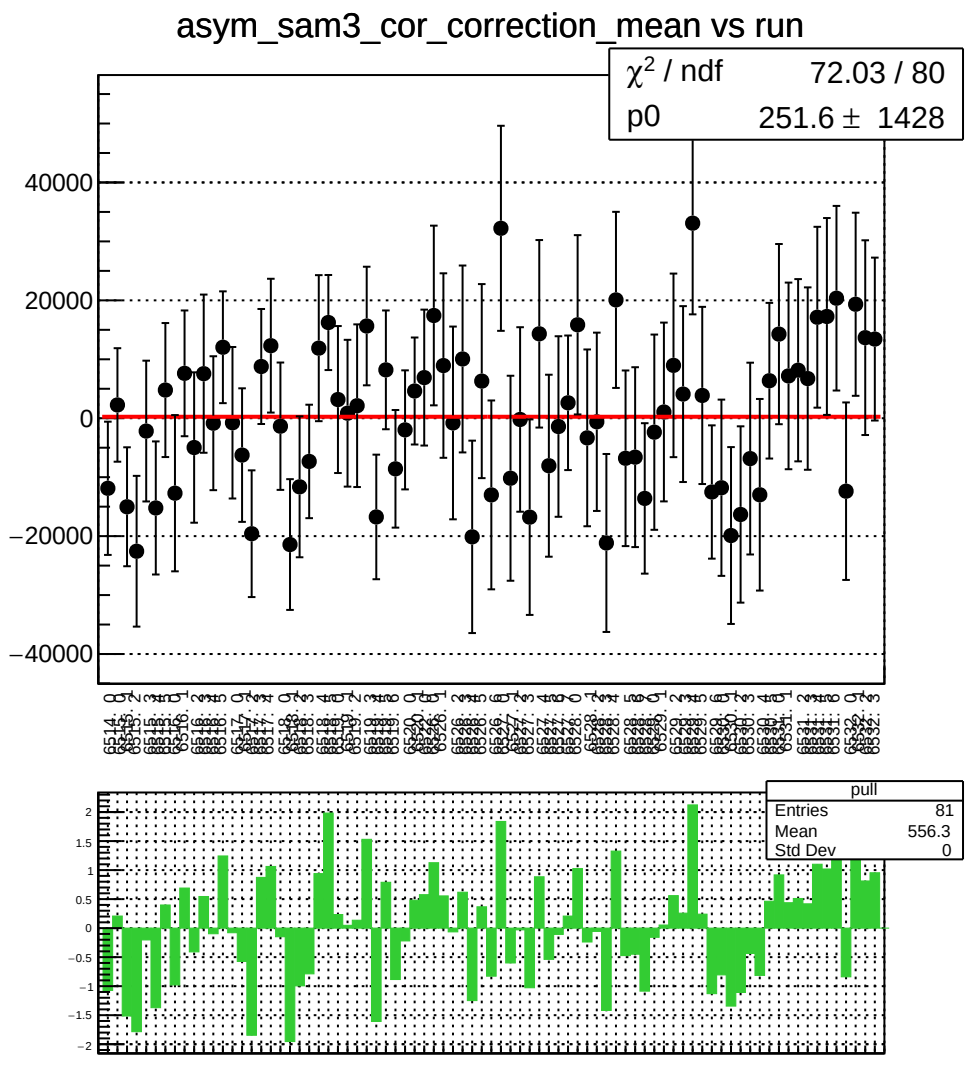

pull1D
Entries 81
Mean 0.009207
Std Dev 0.9429
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

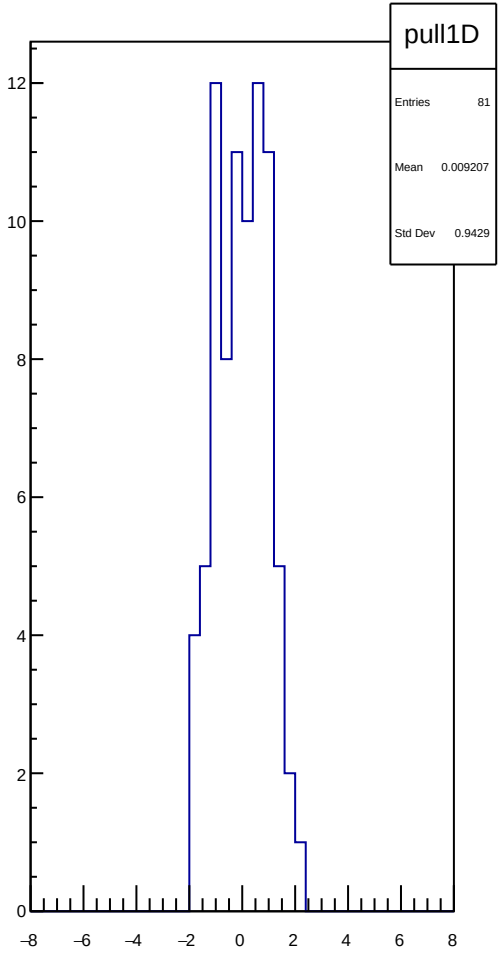

asym_sam3_reg_correction_rms vs run
χ² / ndf 5.28e+04 / 80
p0 1240 ± 1.01
1700
1600
1500
1400
1300
1200
1100
1000
900

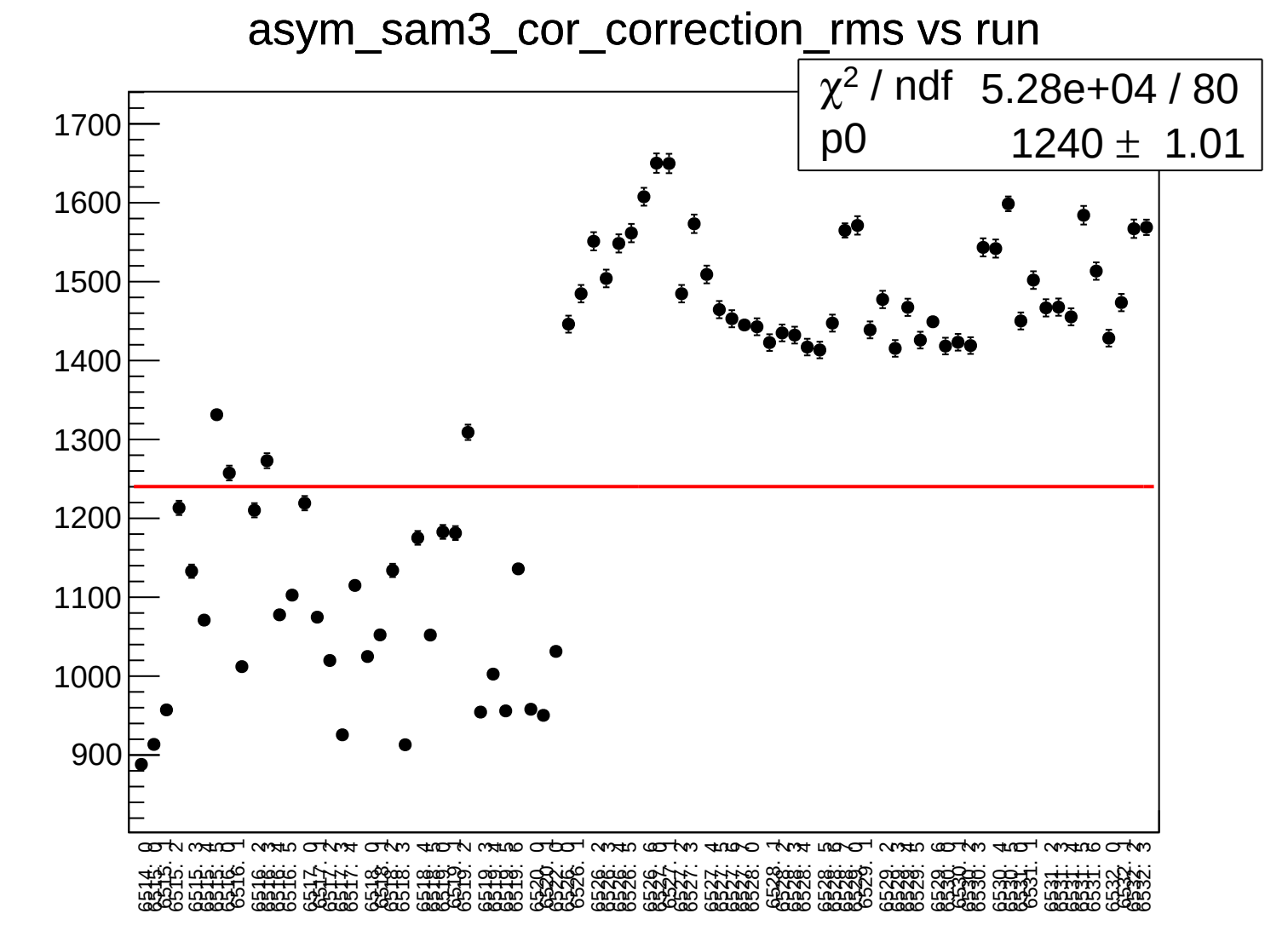

cor_asym_sam3_mean vs run
χ² / ndf 81.56 / 80
p0 191.9 ± 166.1
pull
Entries 81
Mean 150.4
Std Dev 0

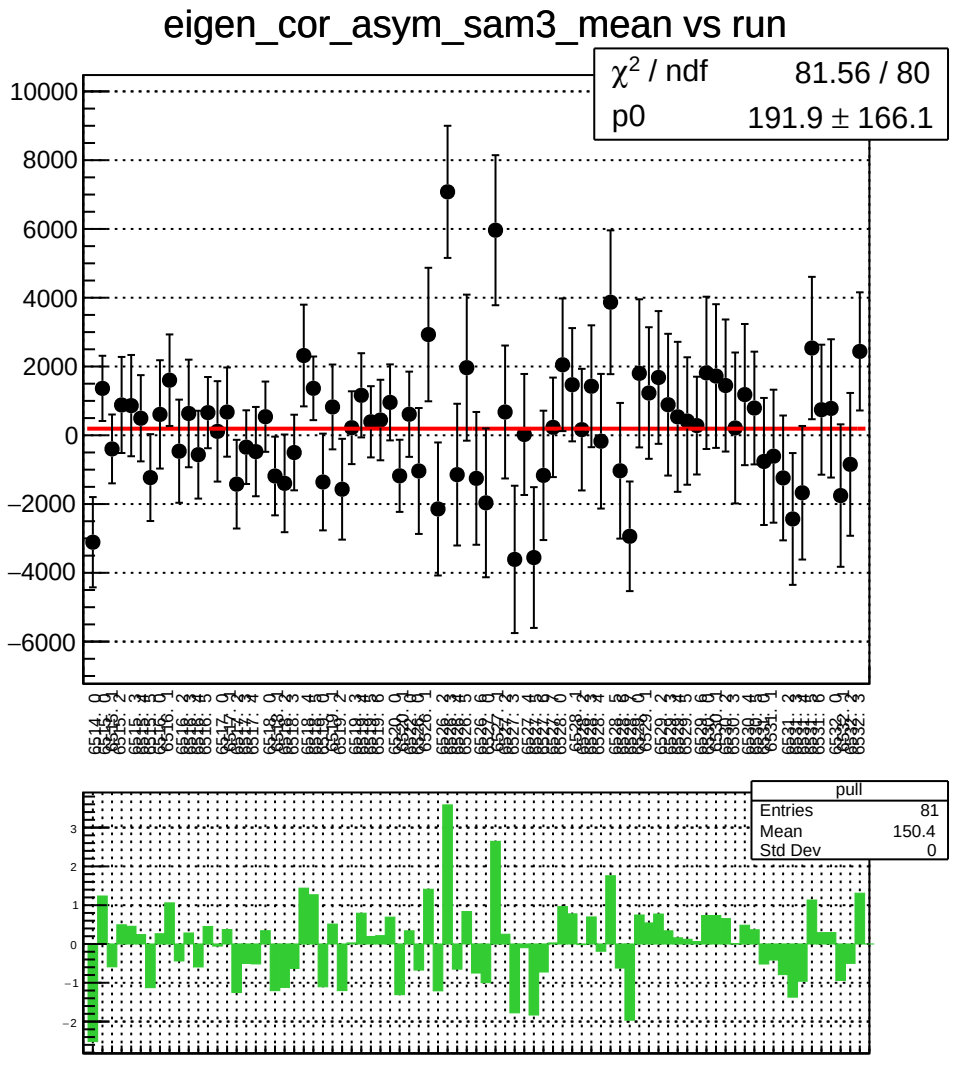

pull1D
Entries 81
Mean 0.01546
Std Dev 1.003

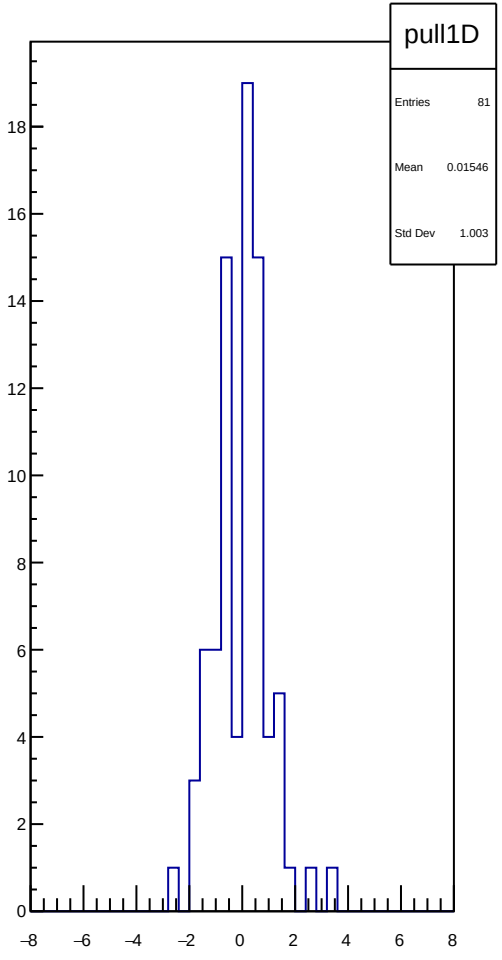

cor_asym_sam3_rms vs run
χ² / ndf 9.789e+04 / 80
p0 142 ± 0.1174
220
200
180
160
140
120
100
80

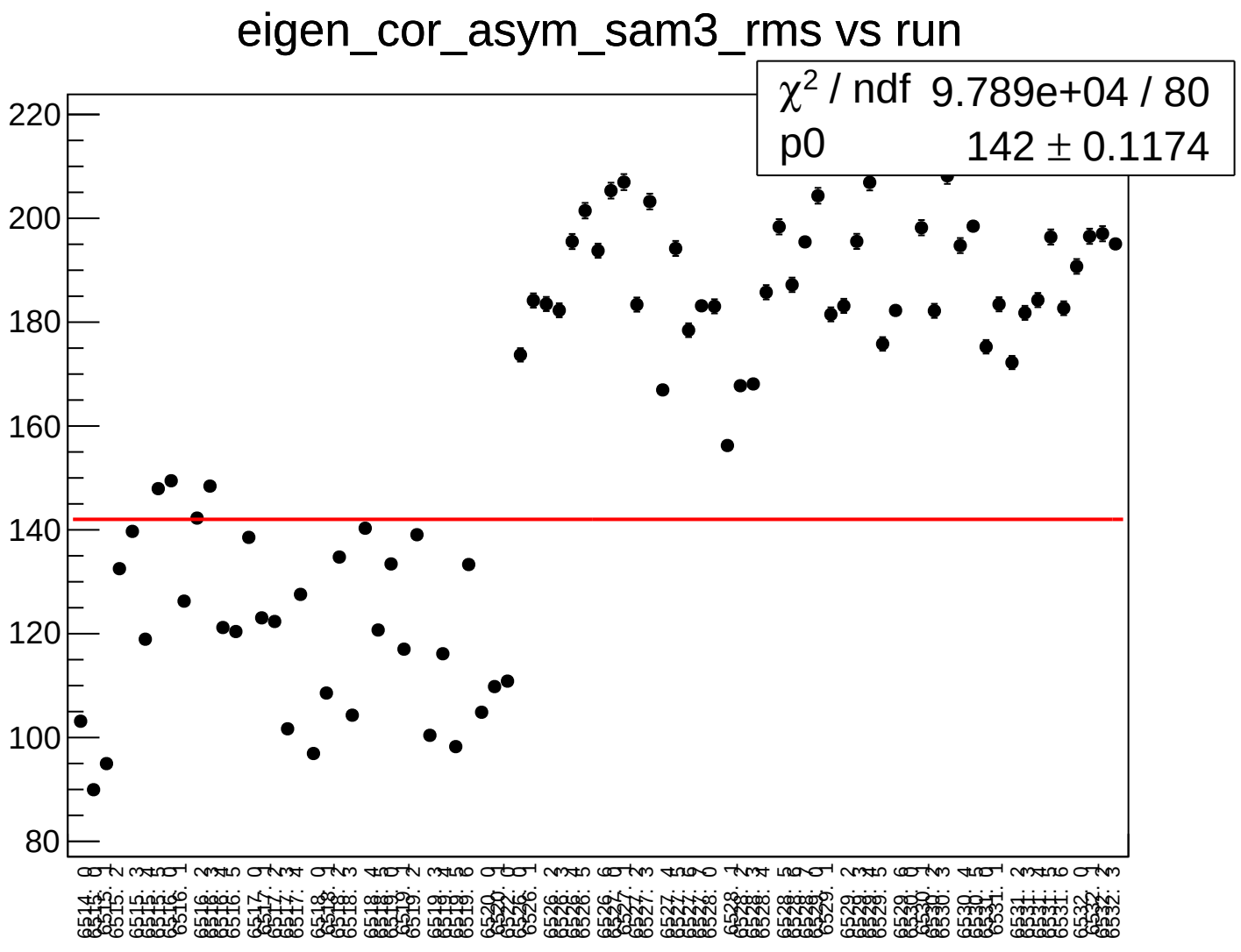

asym_sam3_cor_correction_mean vs run
χ² / ndf 72.03 / 80
p0 251.6 ± 1428
40000
20000
0
−20000
−40000
pull
Entries 81
Mean 556.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

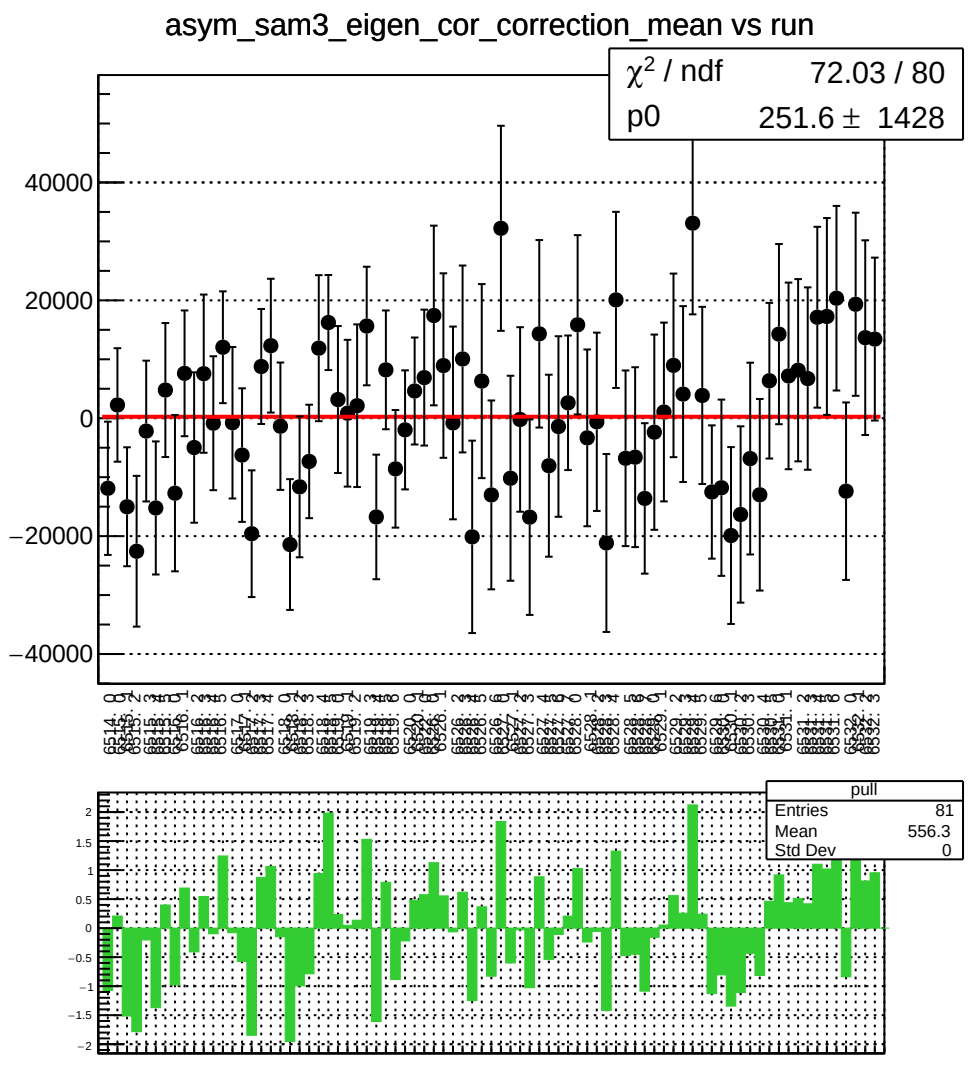

pull1D
Entries 81
Mean 0.009207
Std Dev 0.9429
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

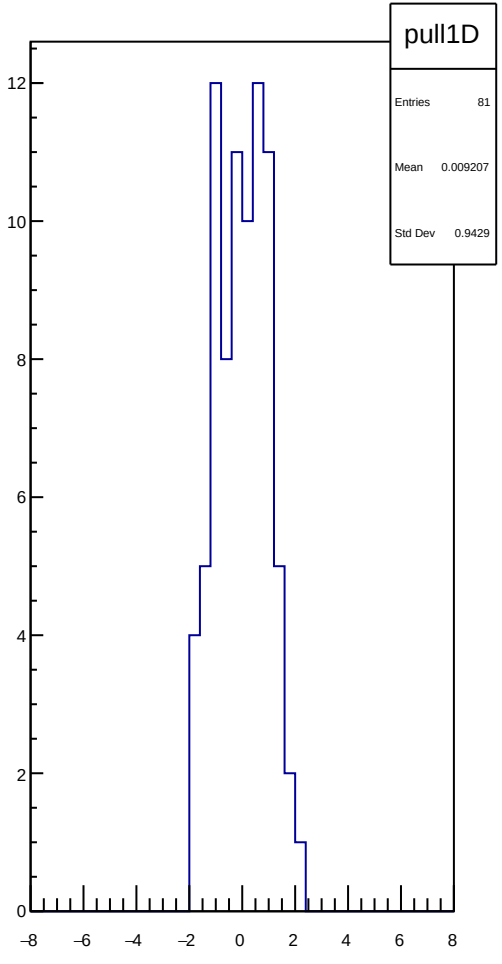

asym_sam3_cor_correction_rms vs run
χ² / ndf 5.28e+04 / 80
p0 1240 ± 1.01
1700
1600
1500
1400
1300
1200
1100
1000
900

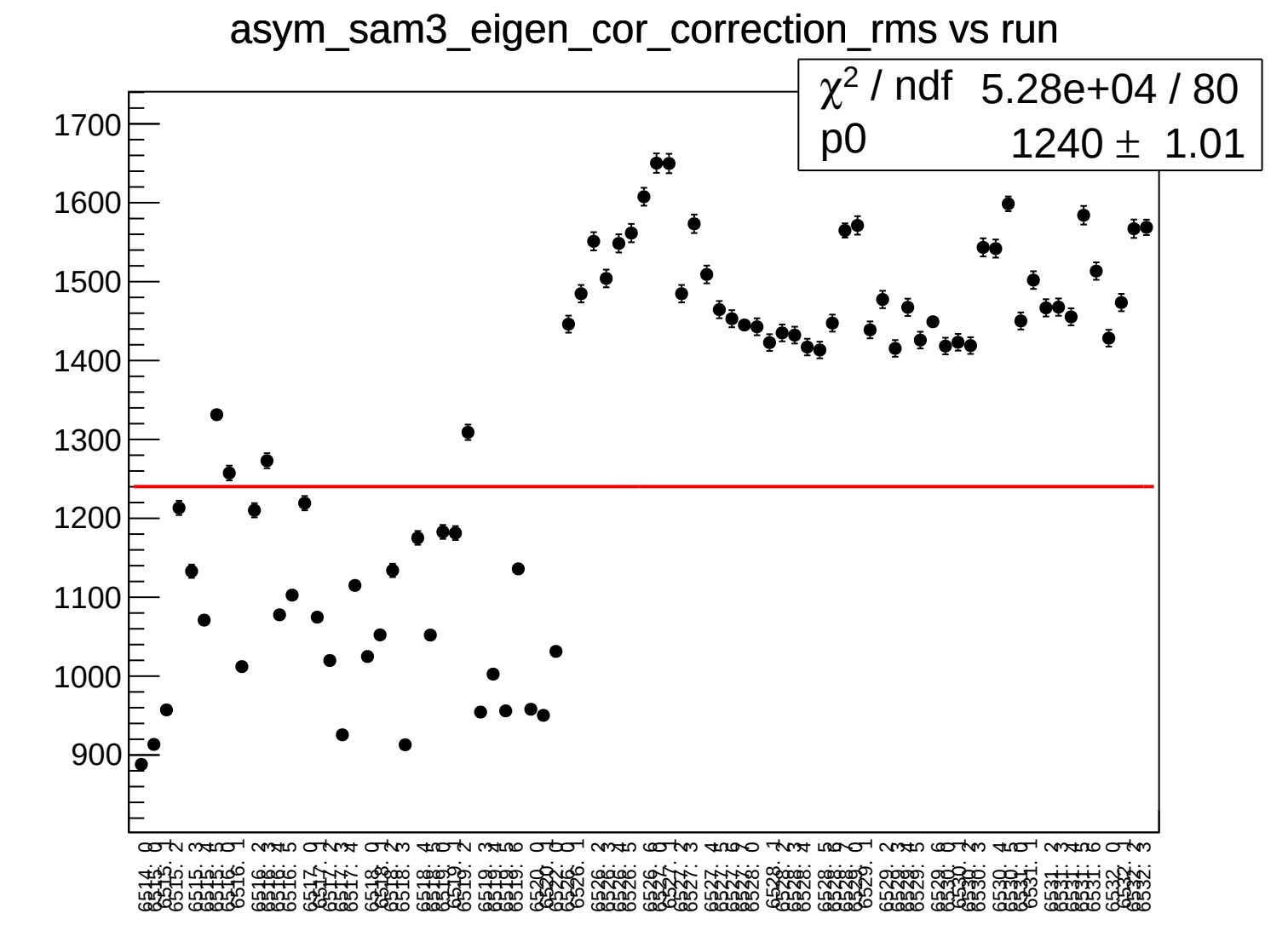

eigen_cor_asym_sam3_mean vs run
χ² / ndf 81.56 / 80
p0 191.9 ± 166.1
pull
Entries 81
Mean 150.4
Std Dev 0

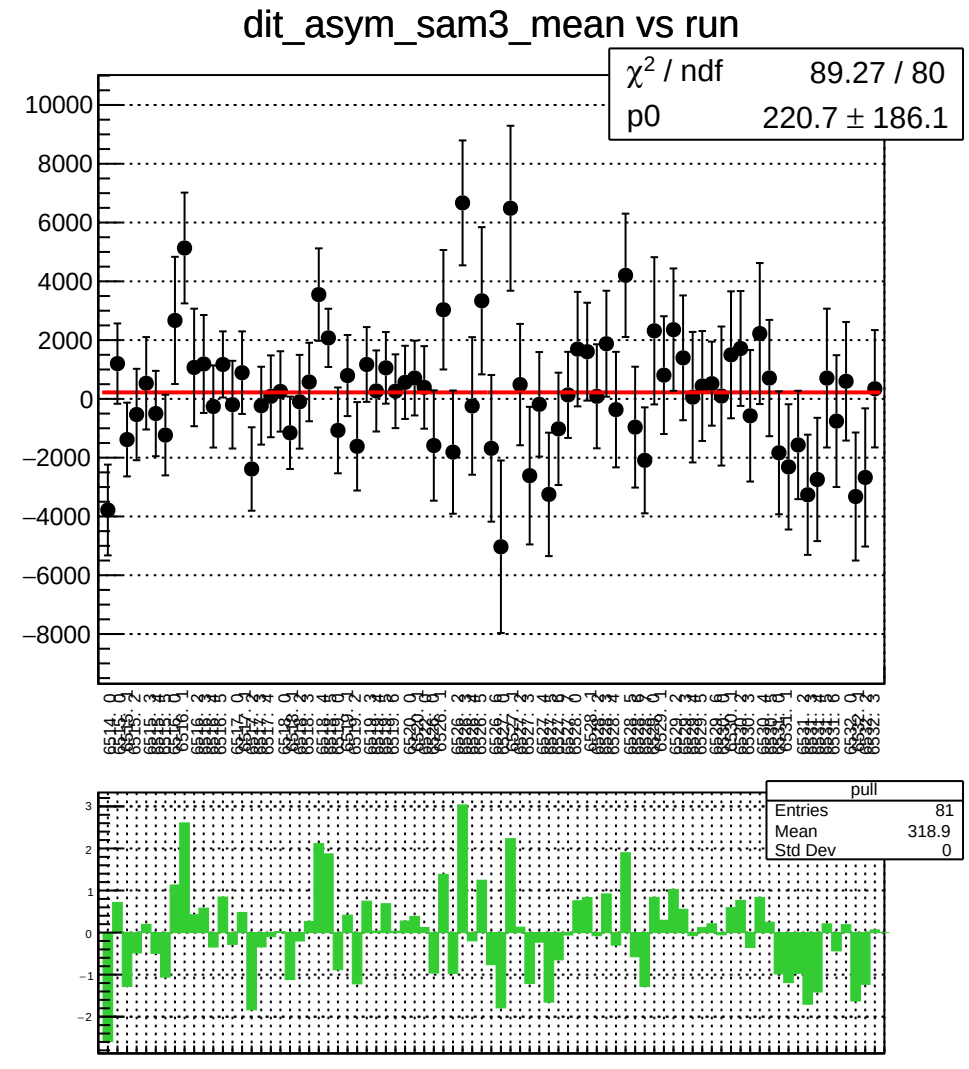

pull1D
Entries 81
Mean 0.01546
Std Dev 1.003

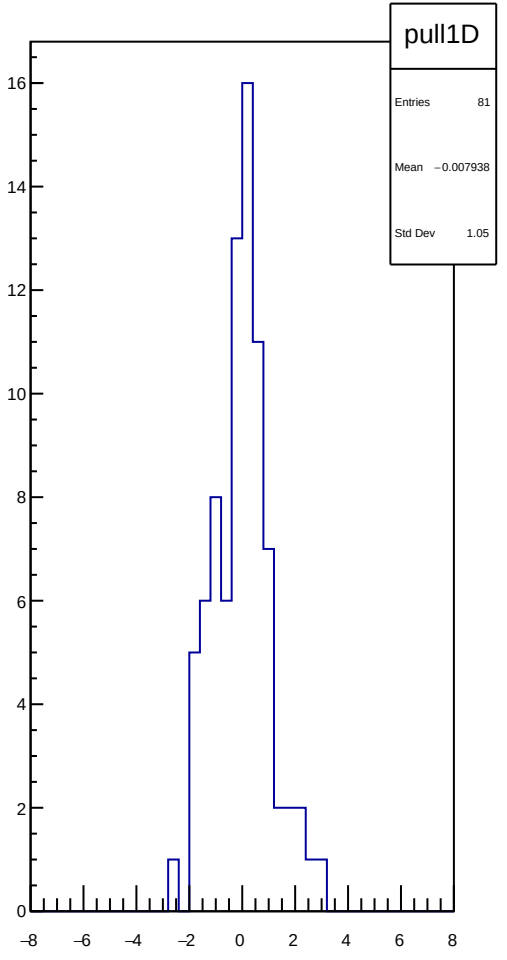

eigen_cor_asym_sam3_rms vs run
χ² / ndf 9.789e+04 / 80
p0 142 ± 0.1174
220
200
180
160
140
120
100
80

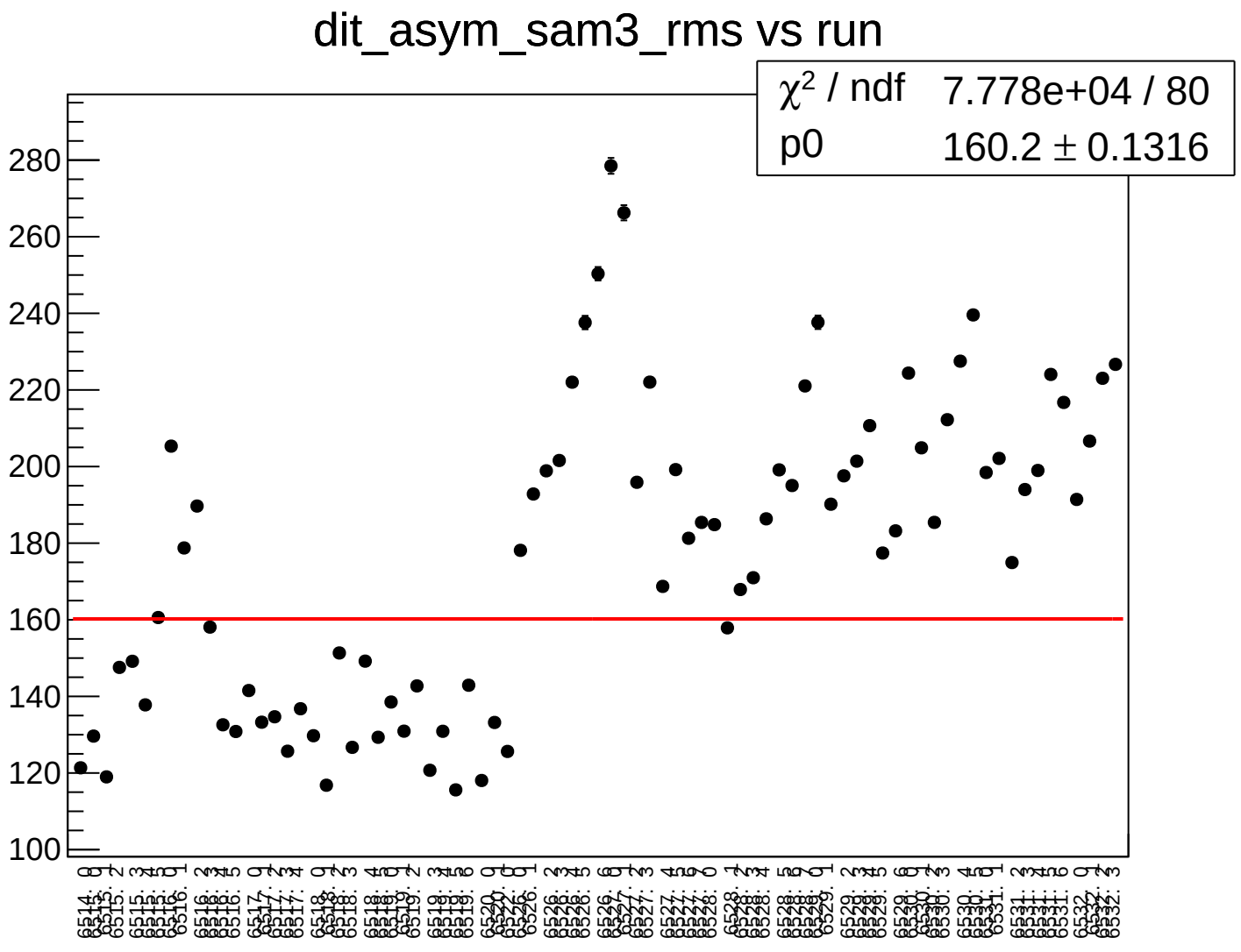

asym_sam3_eigen_cor_correction_mean vs run
χ² / ndf 72.03 / 80
p0 251.6 ± 1428
40000
20000
0
−20000
−40000
pull
Entries 81
Mean 556.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

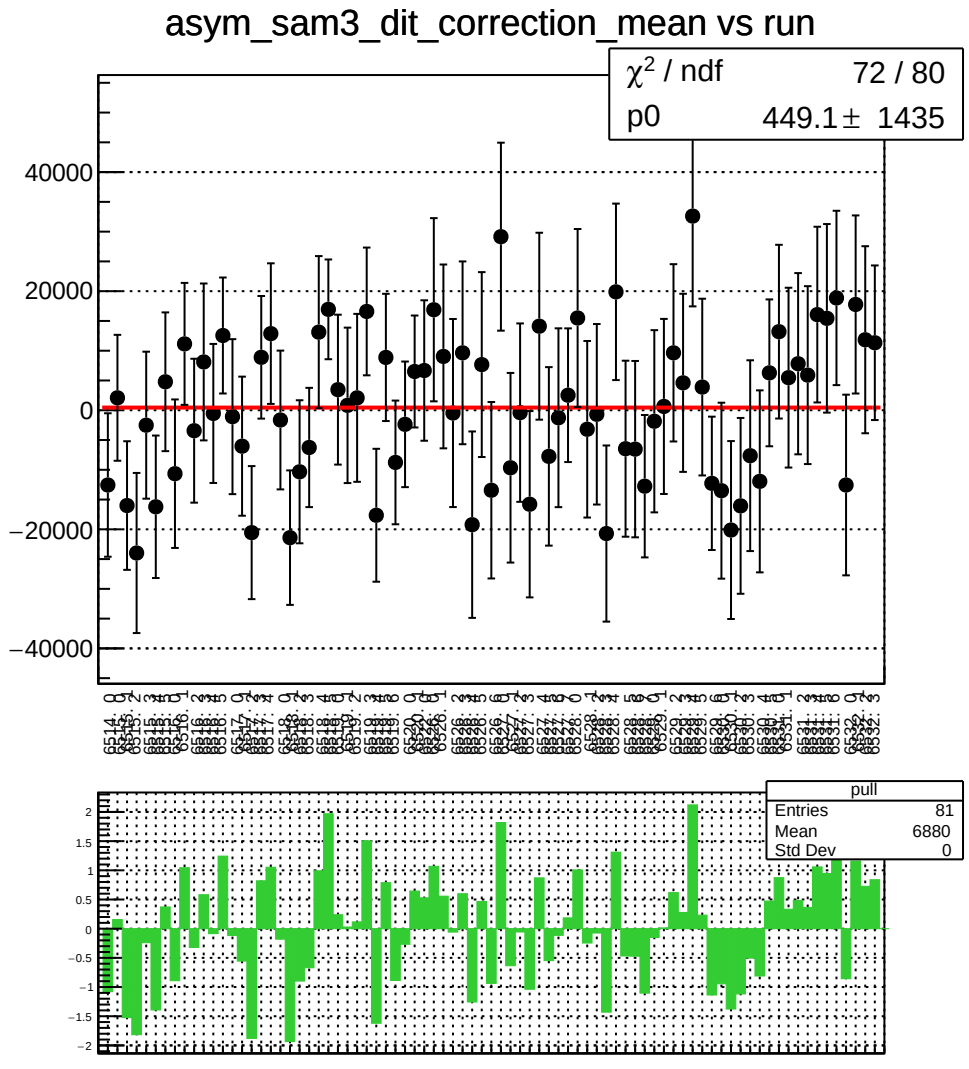

pull1D
Entries 81
Mean 0.009207
Std Dev 0.9429
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

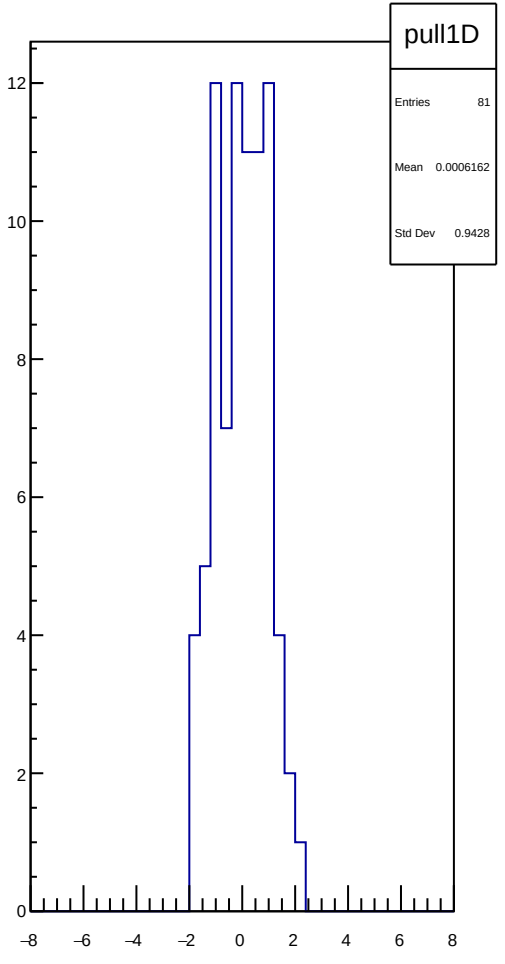

asym_sam3_eigen_cor_correction_rms vs run
χ² / ndf 5.28e+04 / 80
p0 1240 ± 1.01
1700
1600
1500
1400
1300
1200
1100
1000
900

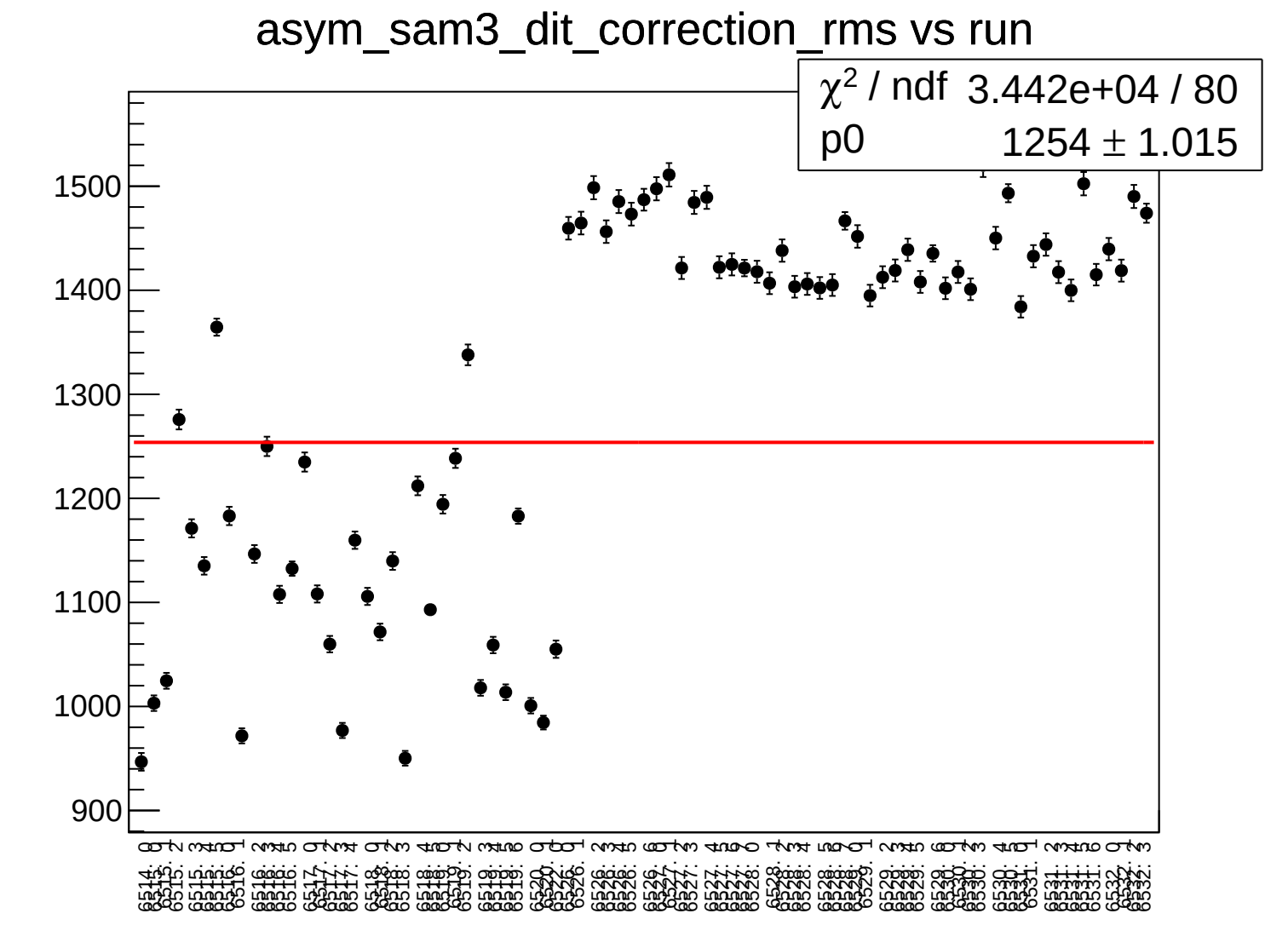

dit_asym_sam3_mean vs run
χ² / ndf 89.27 / 80
p0 220.7 ± 186.1
pull
Entries 81
Mean 318.9
Std Dev 0

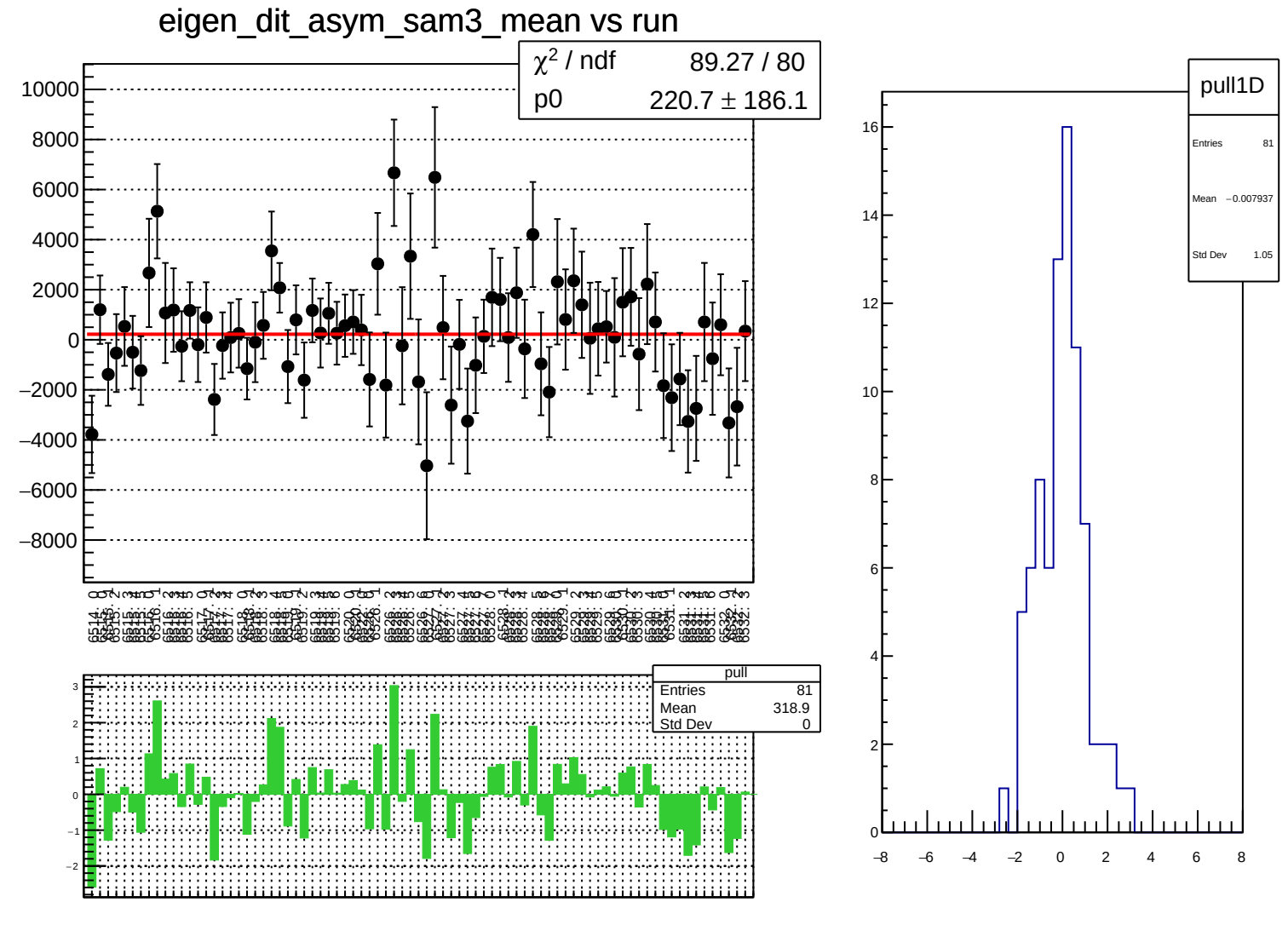

pull1D
Entries 81
Mean −0.007938
Std Dev 1.05

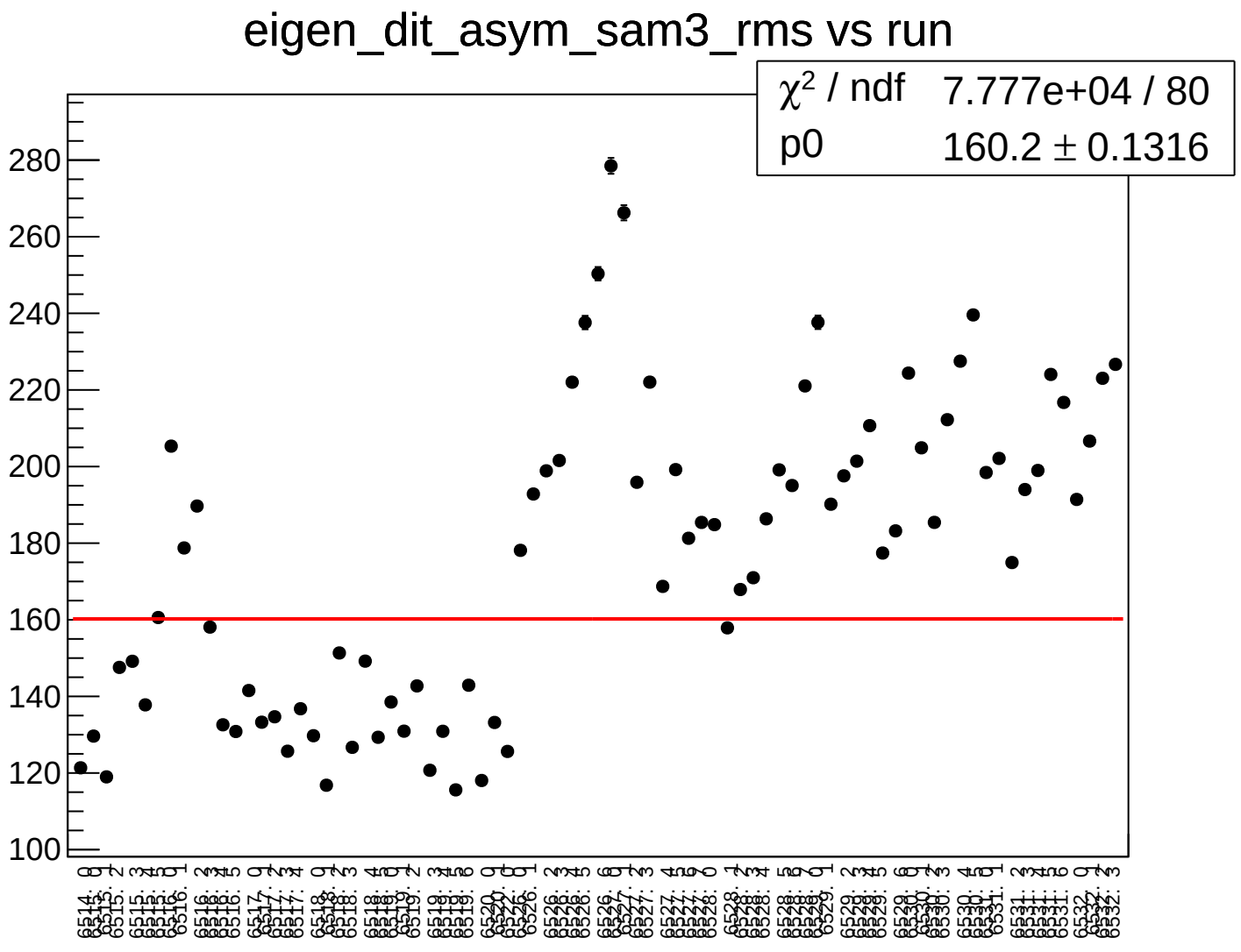

dit_asym_sam3_rms vs run
χ² / ndf 7.778e+04 / 80
p0 160.2 ± 0.1316
280
260
240
220
200
180
160
140
120
100

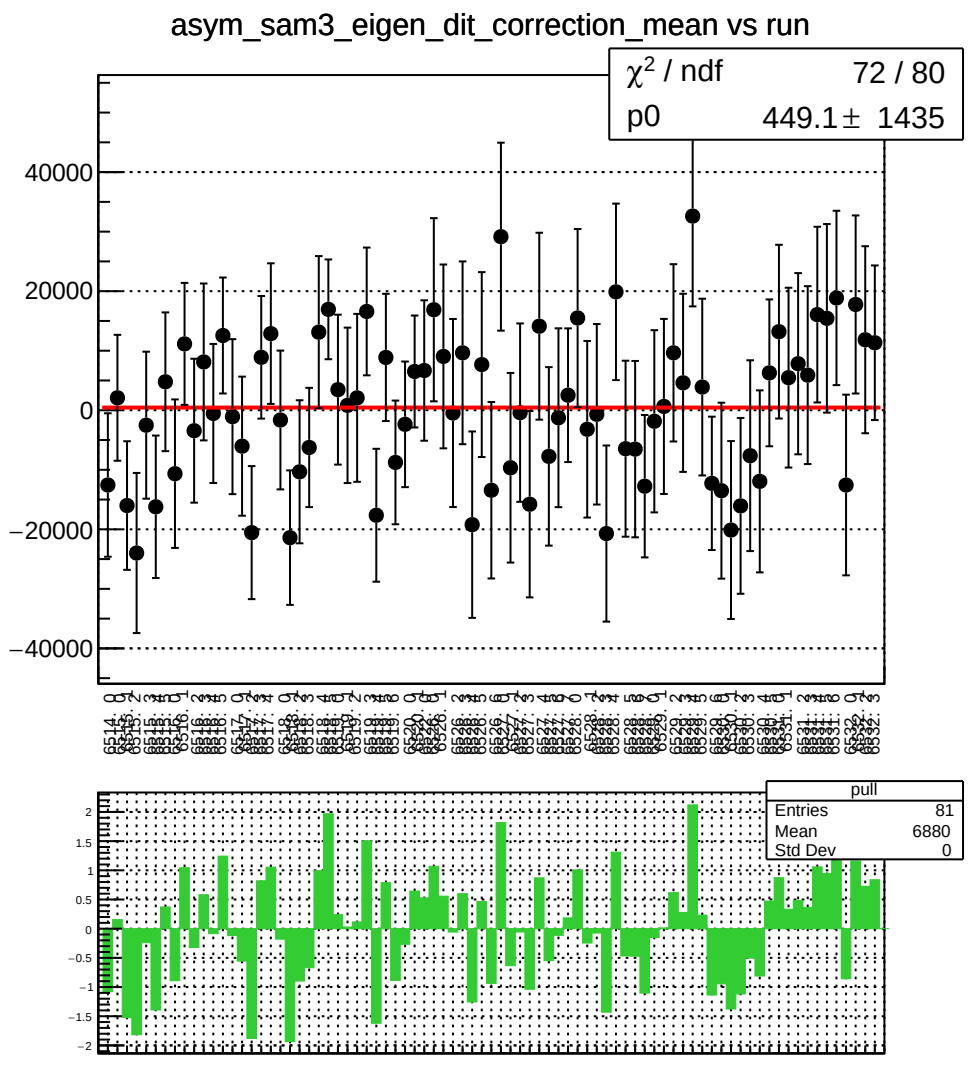

asym_sam3_dit_correction_mean vs run
χ² / ndf 72 / 80
p0 449.1 ± 1435
40000
20000
0
−20000
−40000
pull
Entries 81
Mean 6880
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

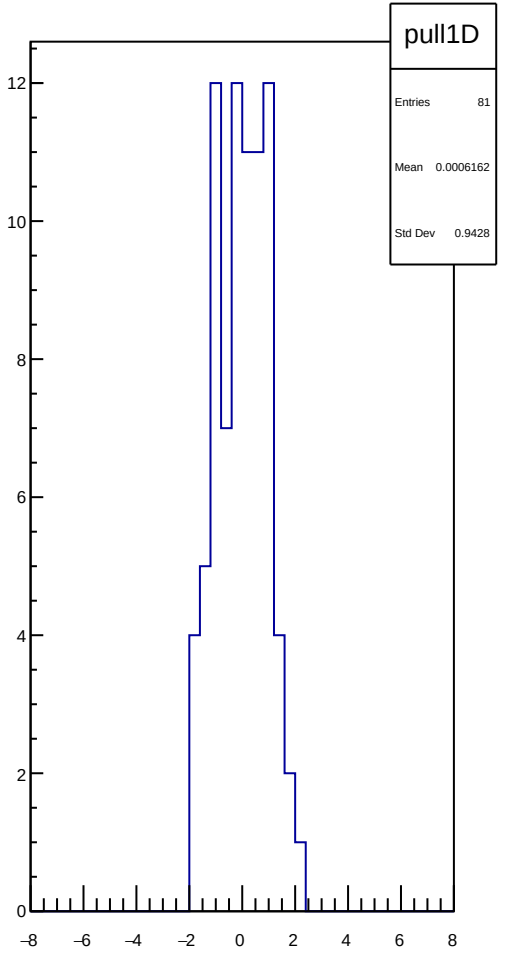

pull1D
Entries 81
Mean 0.0006162
Std Dev 0.9428
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

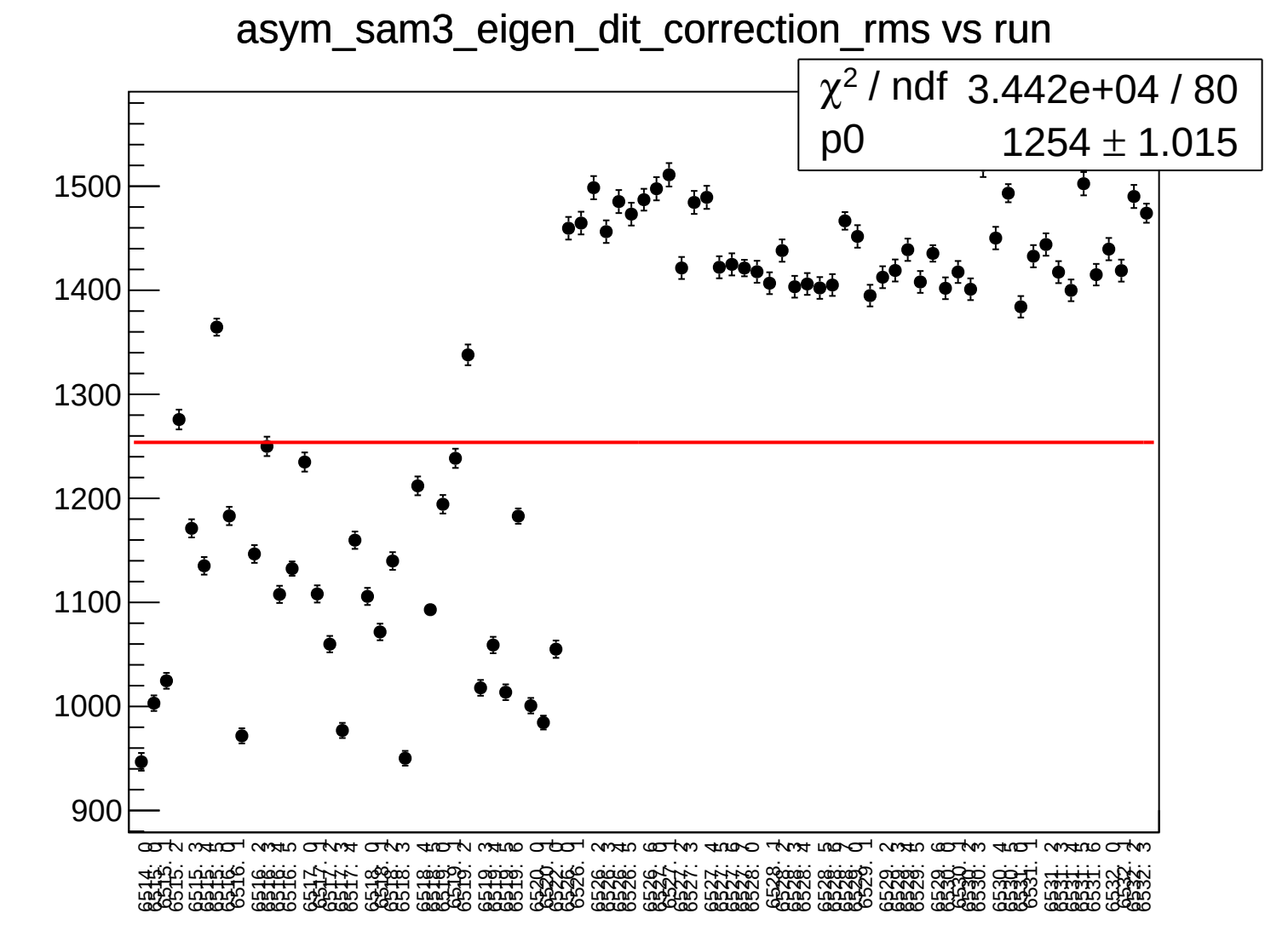

asym_sam3_dit_correction_rms vs run
χ² / ndf 3.442e+04 / 80
p0 1254 ± 1.015
1500
1400
1300
1200
1100
1000
900

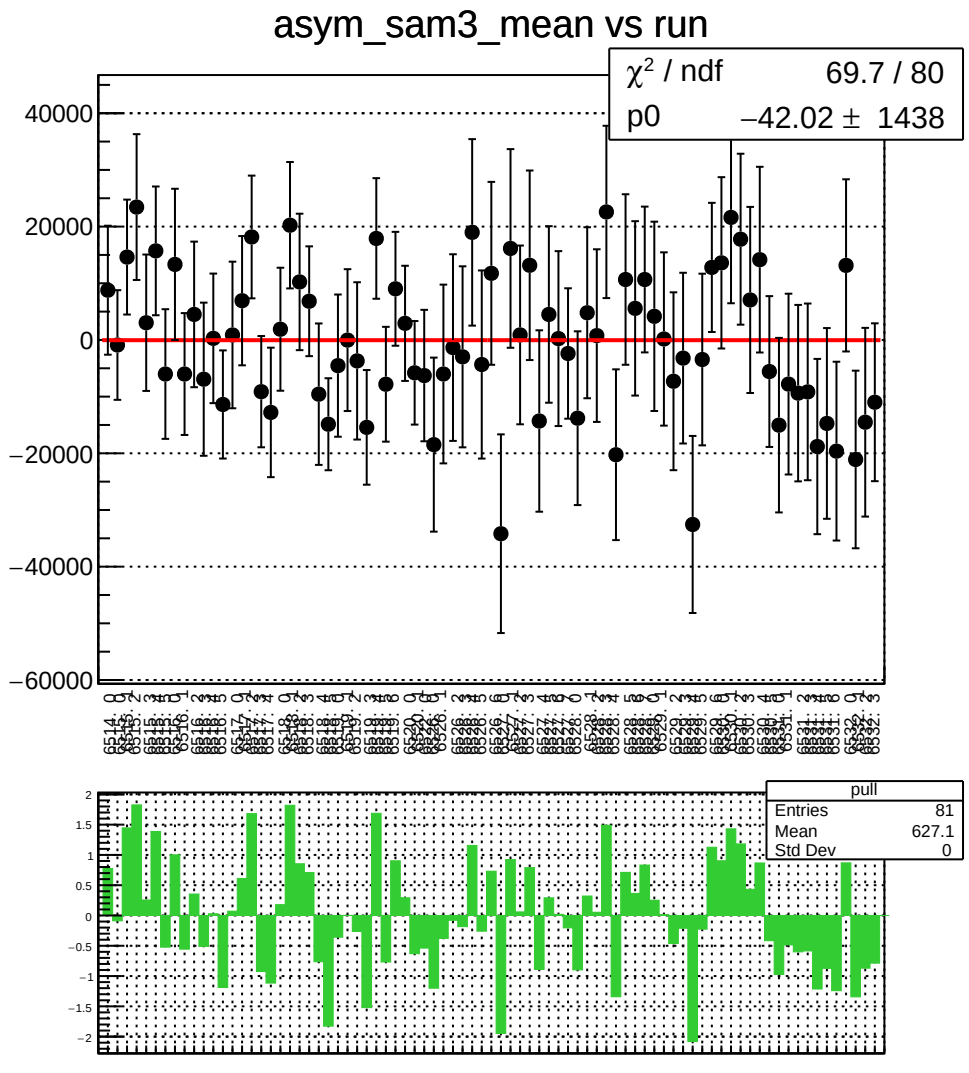

eigen_dit_asym_sam3_mean vs run
χ² / ndf 89.27 / 80
p0 220.7 ± 186.1
pull
Entries 81
Mean 318.9
Std Dev 0
pull1D
Entries 81
Mean −0.007937
Std Dev 1.05

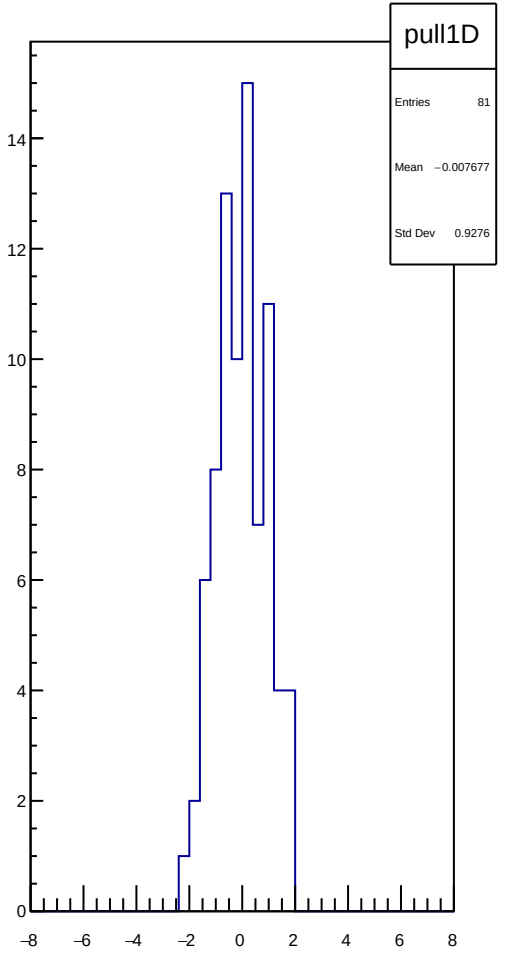

eigen_dit_asym_sam3_rms vs run
χ² / ndf 7.777e+04 / 80
p0 160.2 ± 0.1316
280
260
240
220
200
180
160
140
120
100

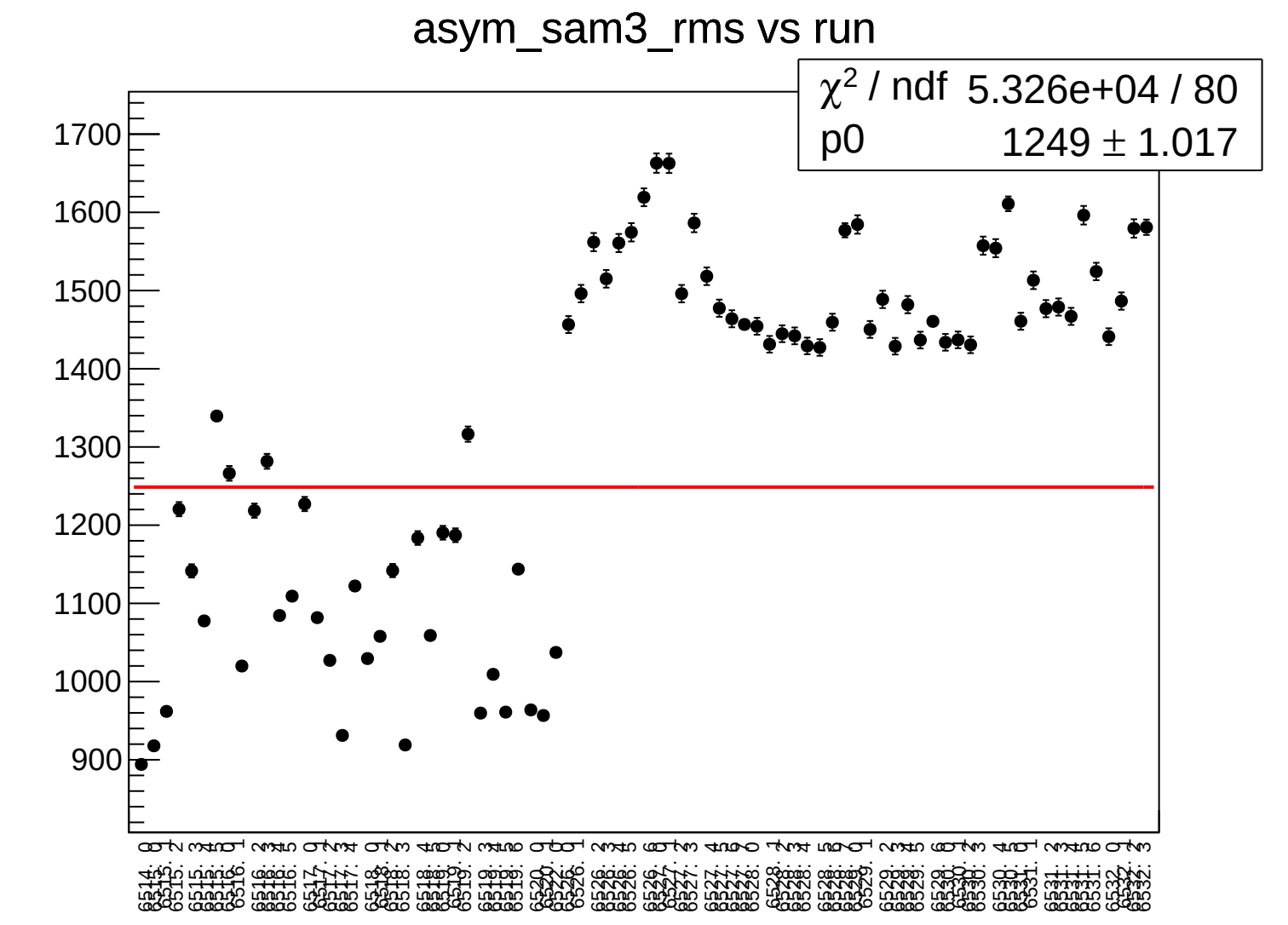

asym_sam3_eigen_dit_correction_mean vs run
χ² / ndf 72 / 80
p0 449.1 ± 1435
40000
20000
0
−20000
−40000
pull
Entries 81
Mean 6880
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

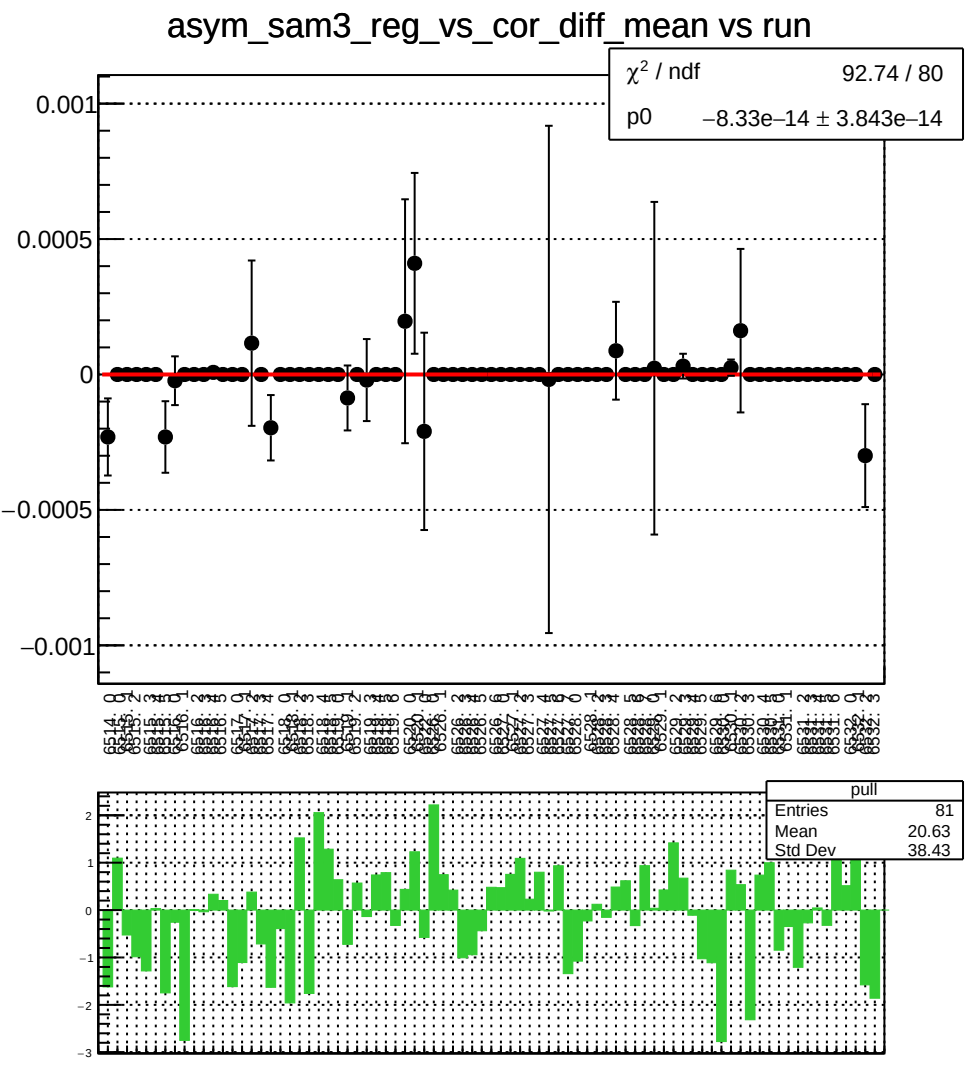

pull1D
Entries 81
Mean 0.0006162
Std Dev 0.9428
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

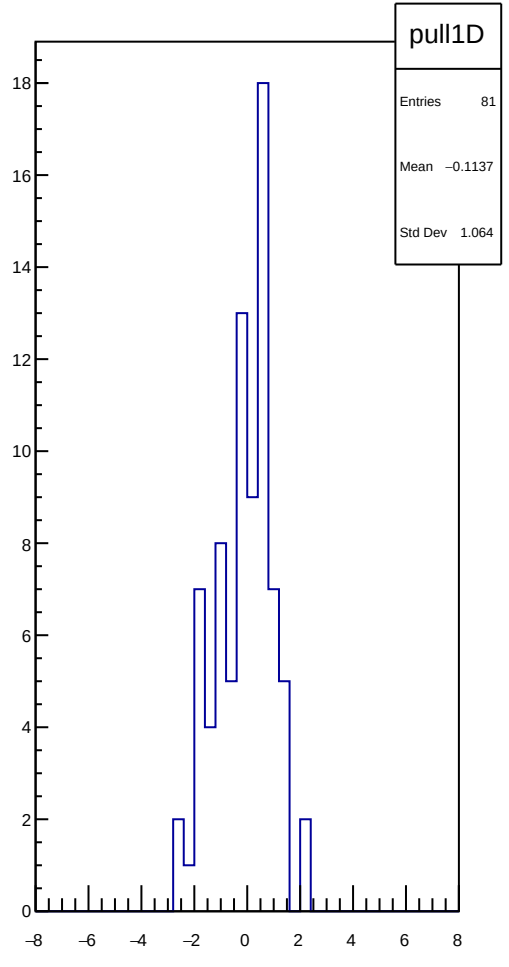

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 3.442e+04 / 80
p0 1254 ± 1.015
1500
1400
1300
1200
1100
1000
900

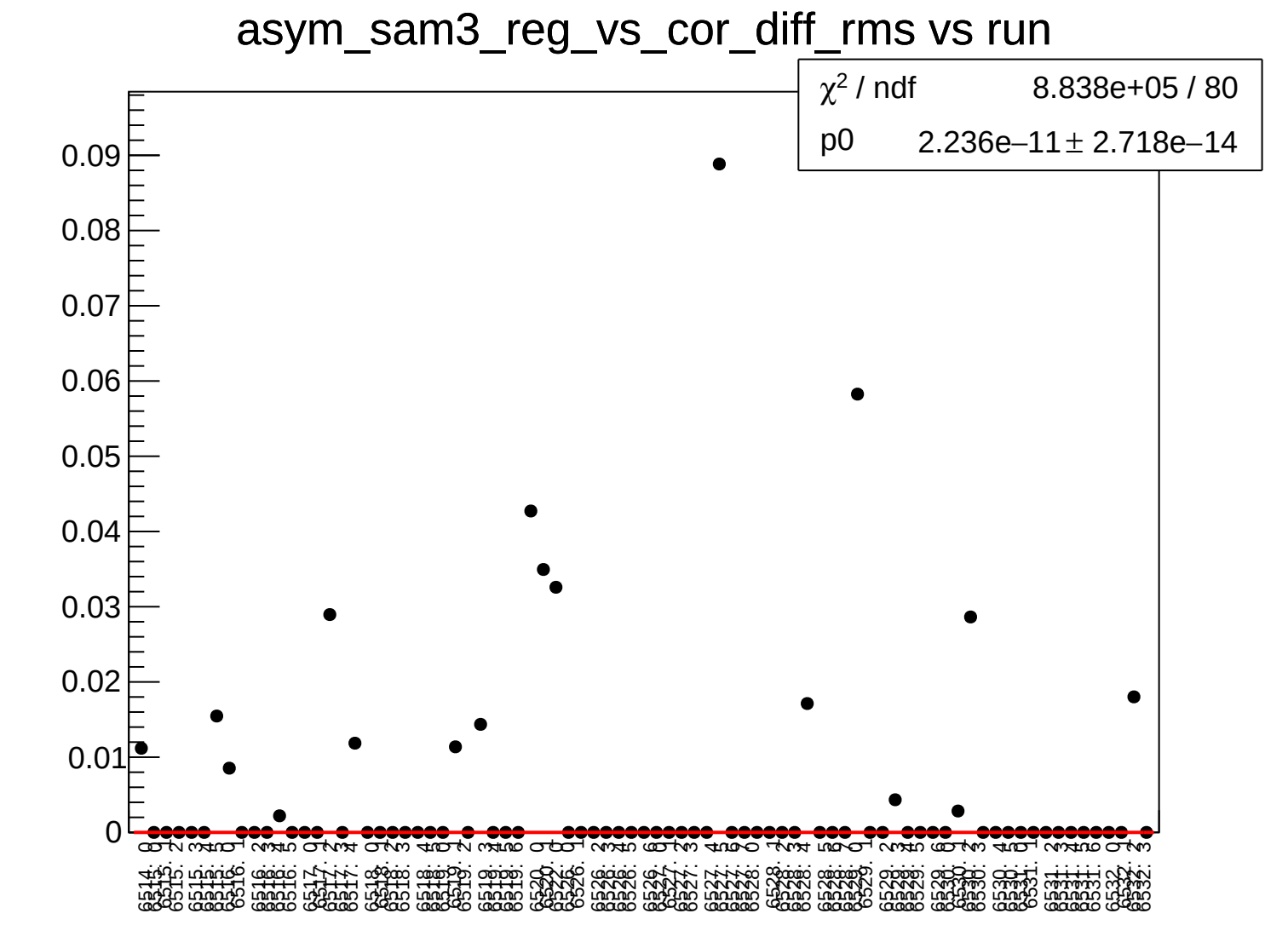

asym_sam3_mean vs run
χ² / ndf 69.7 / 80
p0 −42.02 ± 1438
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean 627.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

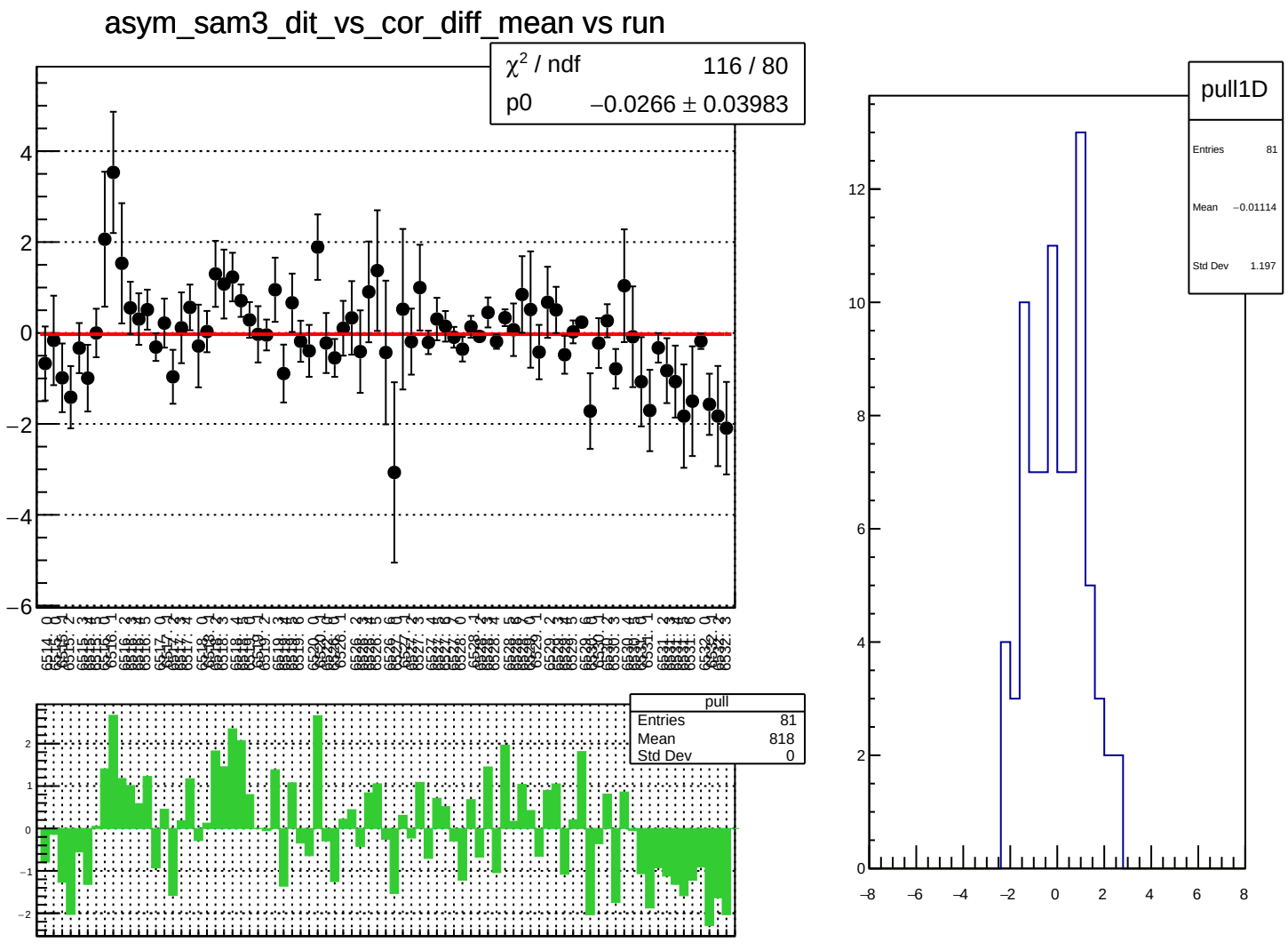

pull1D
Entries 81
Mean −0.007677
Std Dev 0.9276
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

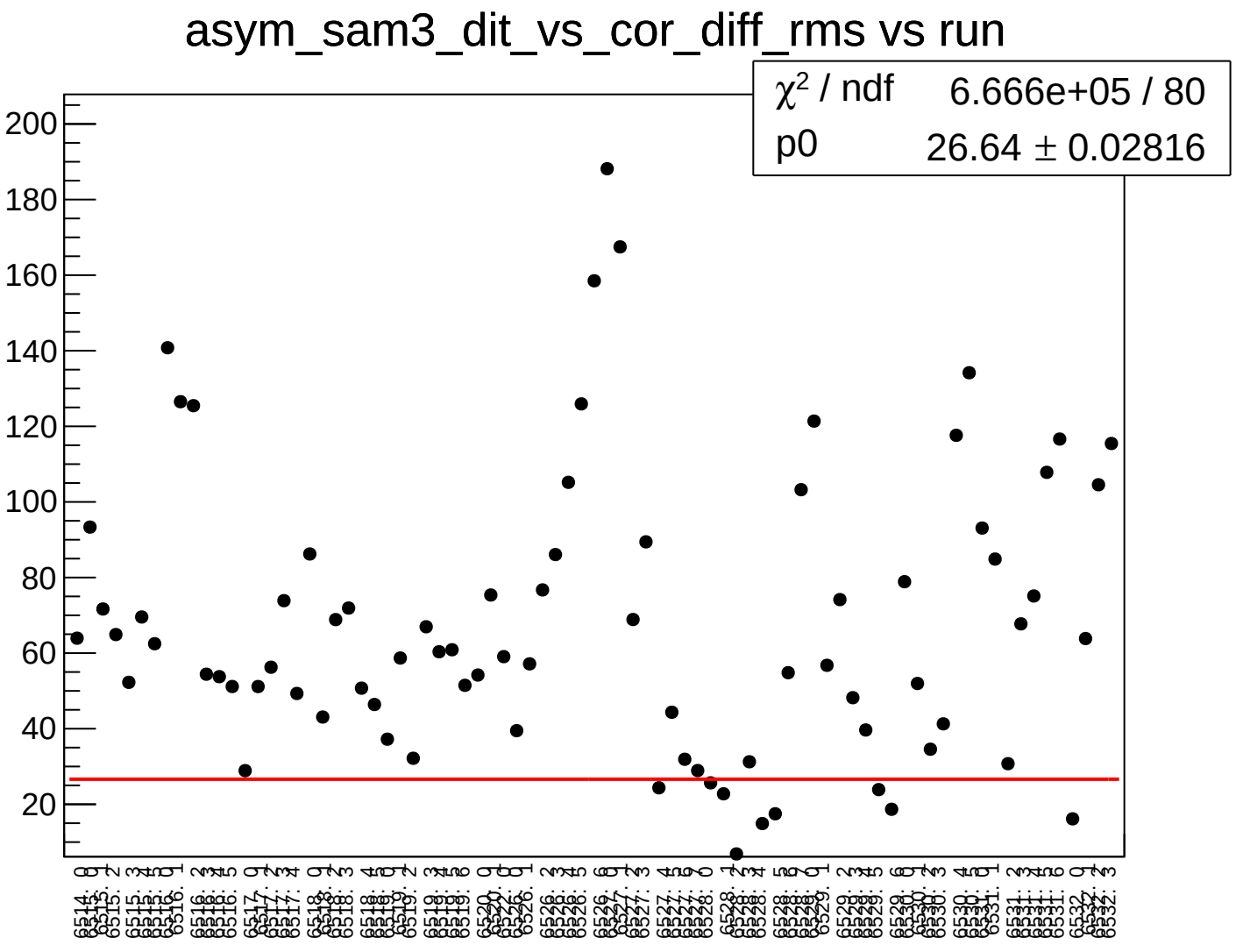

asym_sam3_rms vs run
χ^2 / ndf 5.326e+04 / 80
p0 1249 ± 1.017
1700
1600
1500
1400
1300
1200
1100
1000
900

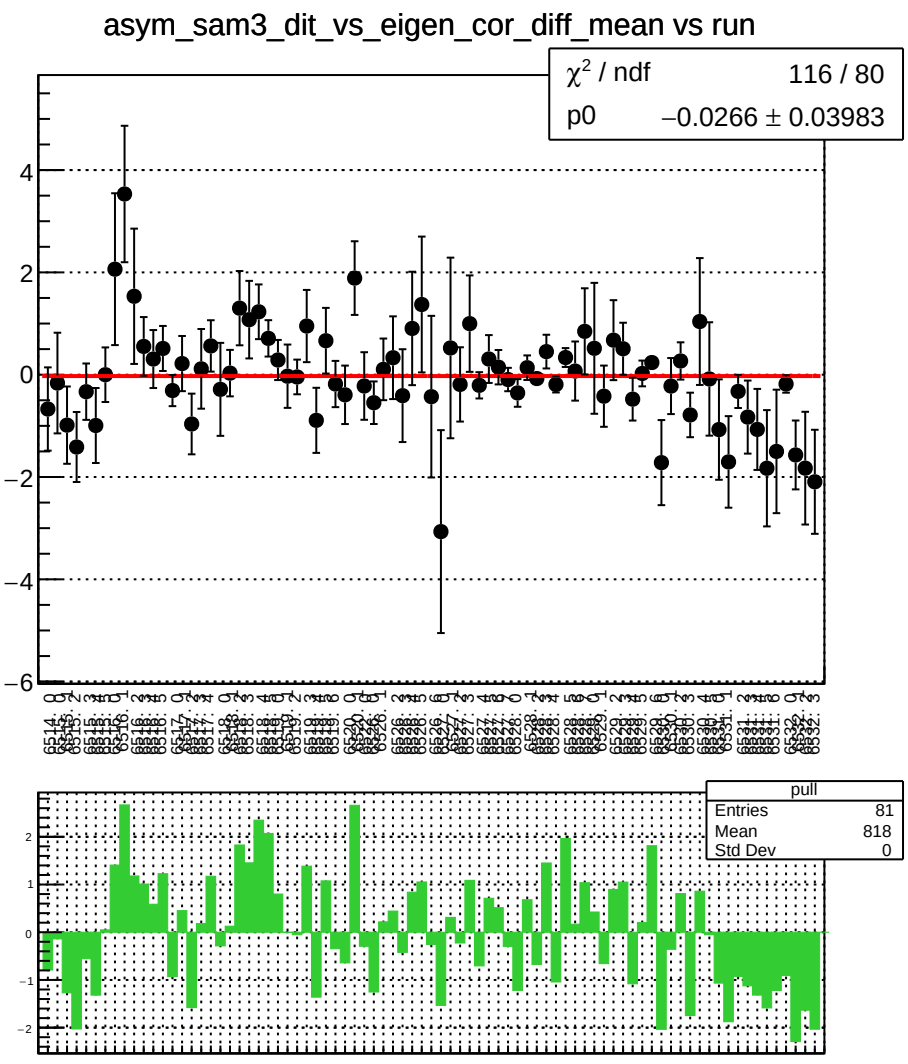

asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 92.74 / 80
p0 −8.33e−14 ± 3.843e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 81
Mean 20.63
Std Dev 38.43

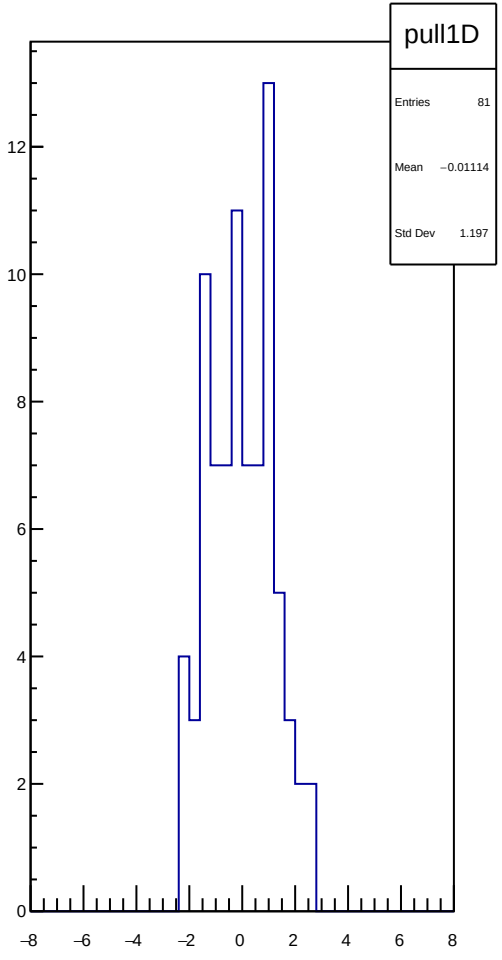

pull1D
Entries 81
Mean −0.1137
Std Dev 1.064

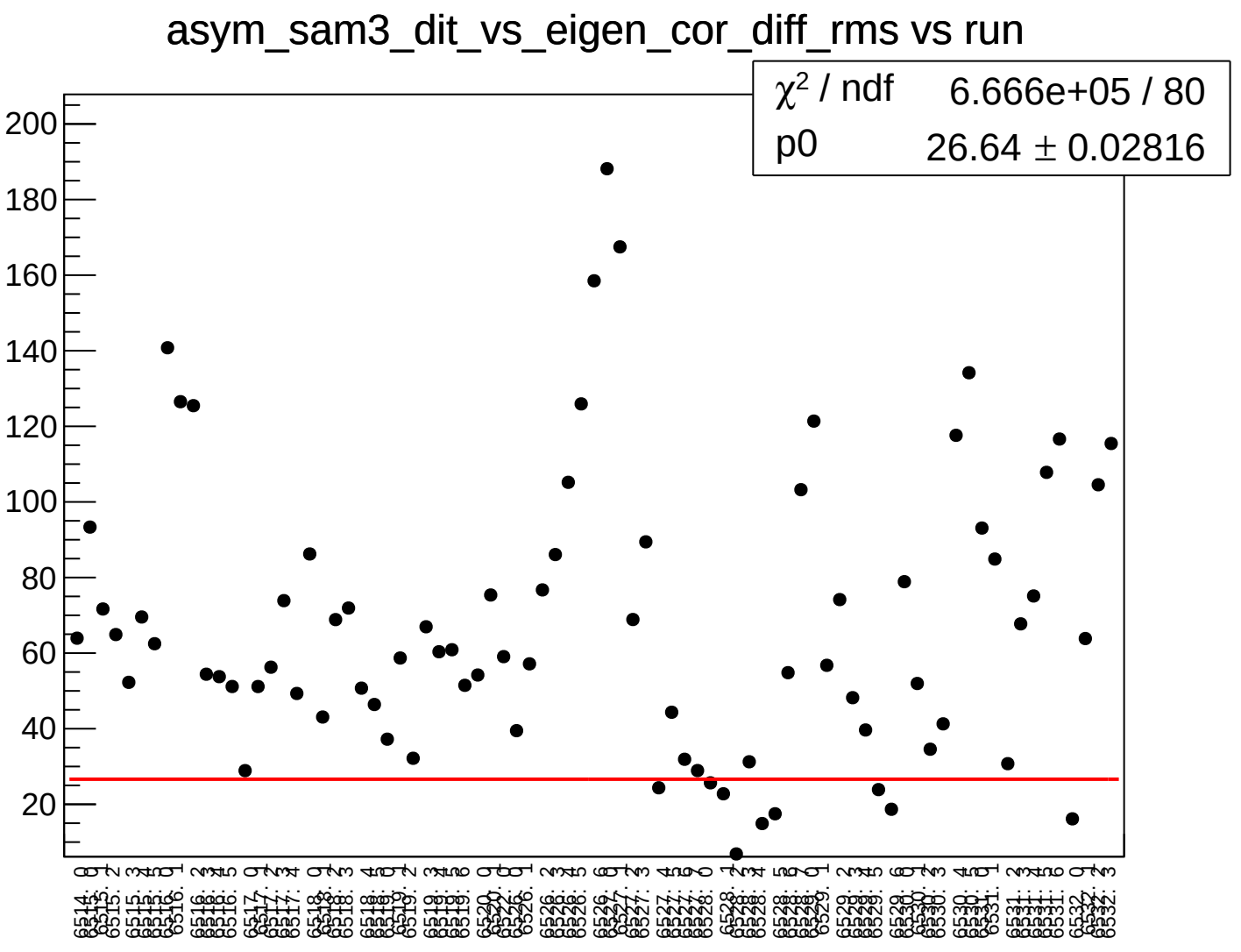

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 8.838e+05 / 80
p0 2.236e−11 ± 2.718e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

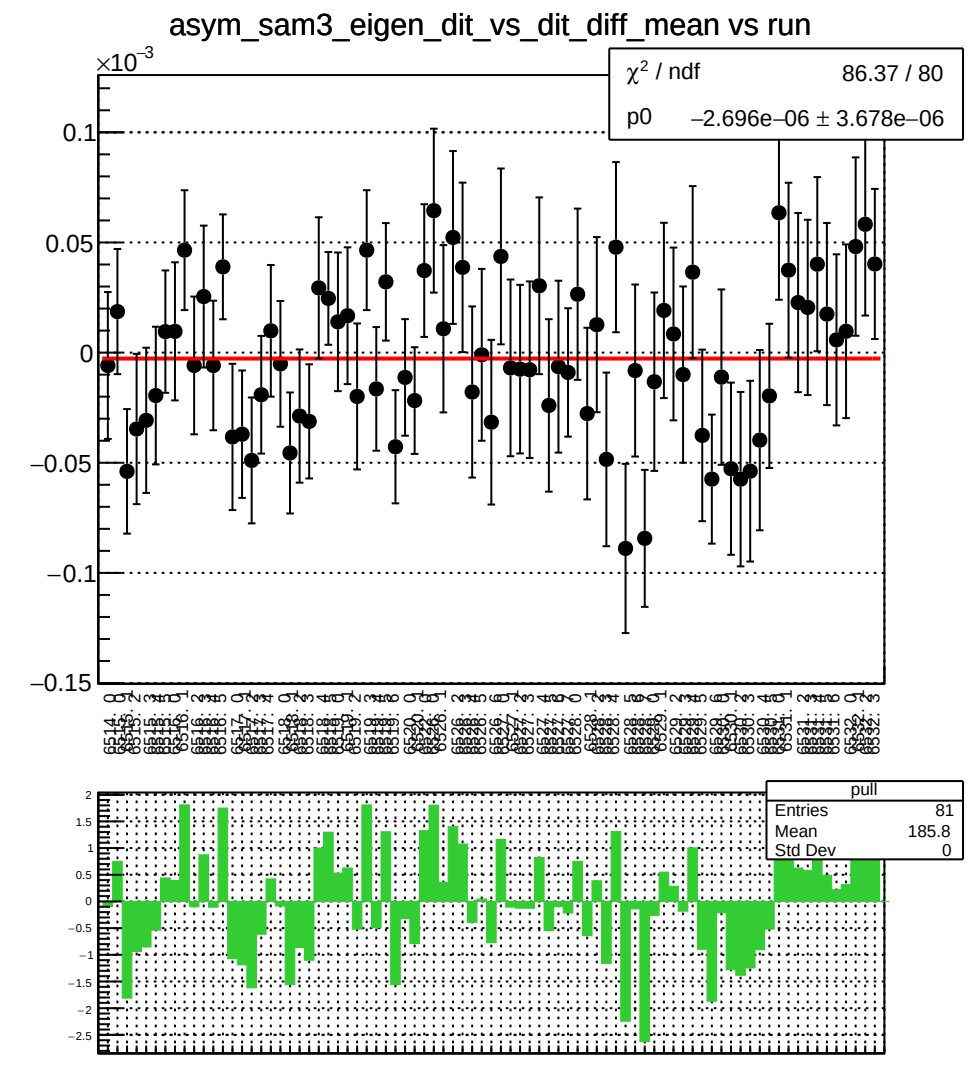

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 116 / 80
p0 −0.0266 ± 0.03983
pull
Entries 81
Mean 818
Std Dev 0
pull1D
Entries 81
Mean −0.01114
Std Dev 1.197

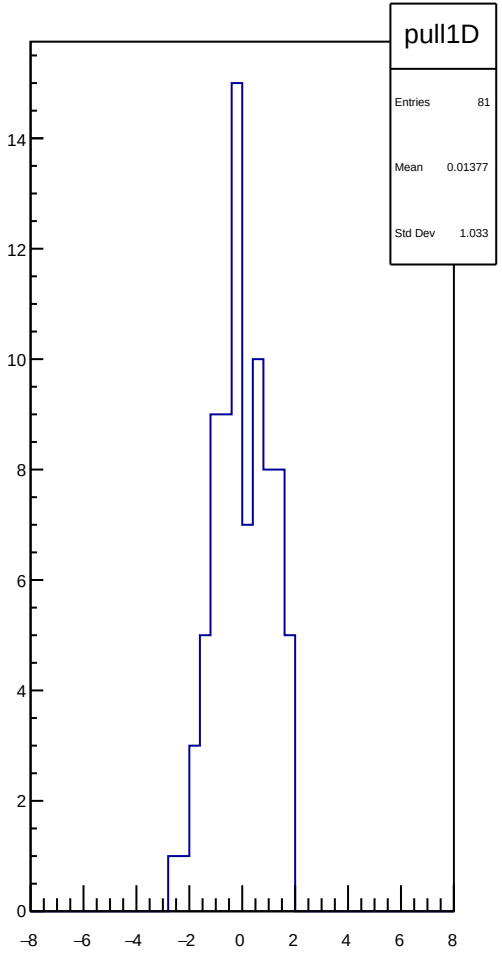

asym_sam3_dit_vs_cor_diff_rms vs run
χ² / ndf 6.666e+05 / 80
p0 26.64 ± 0.02816
200
180
160
140
120
100
80
60
40
20

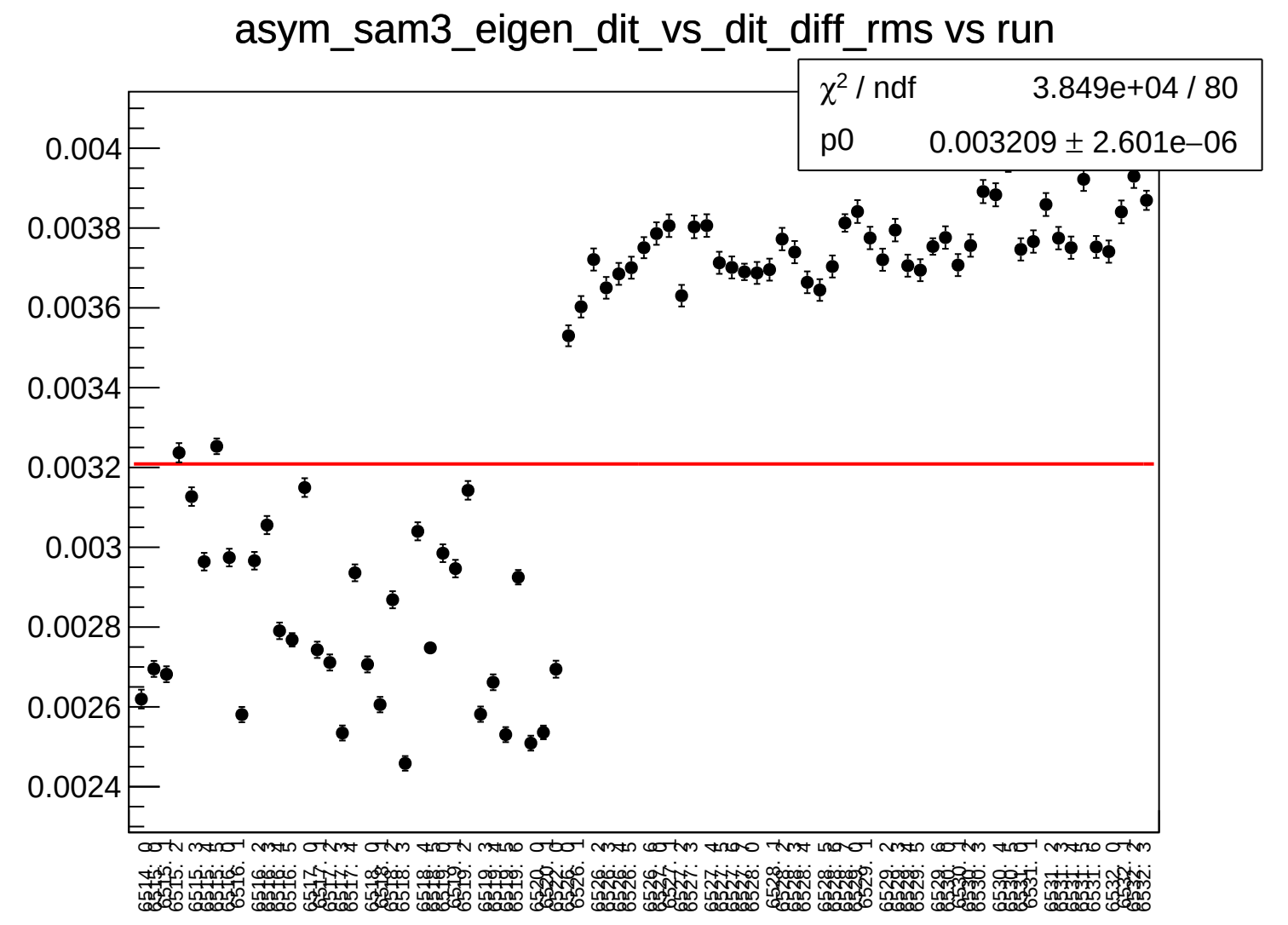

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 116 / 80
p0 −0.0266 ± 0.03983
pull
Entries 81
Mean 818
Std Dev 0

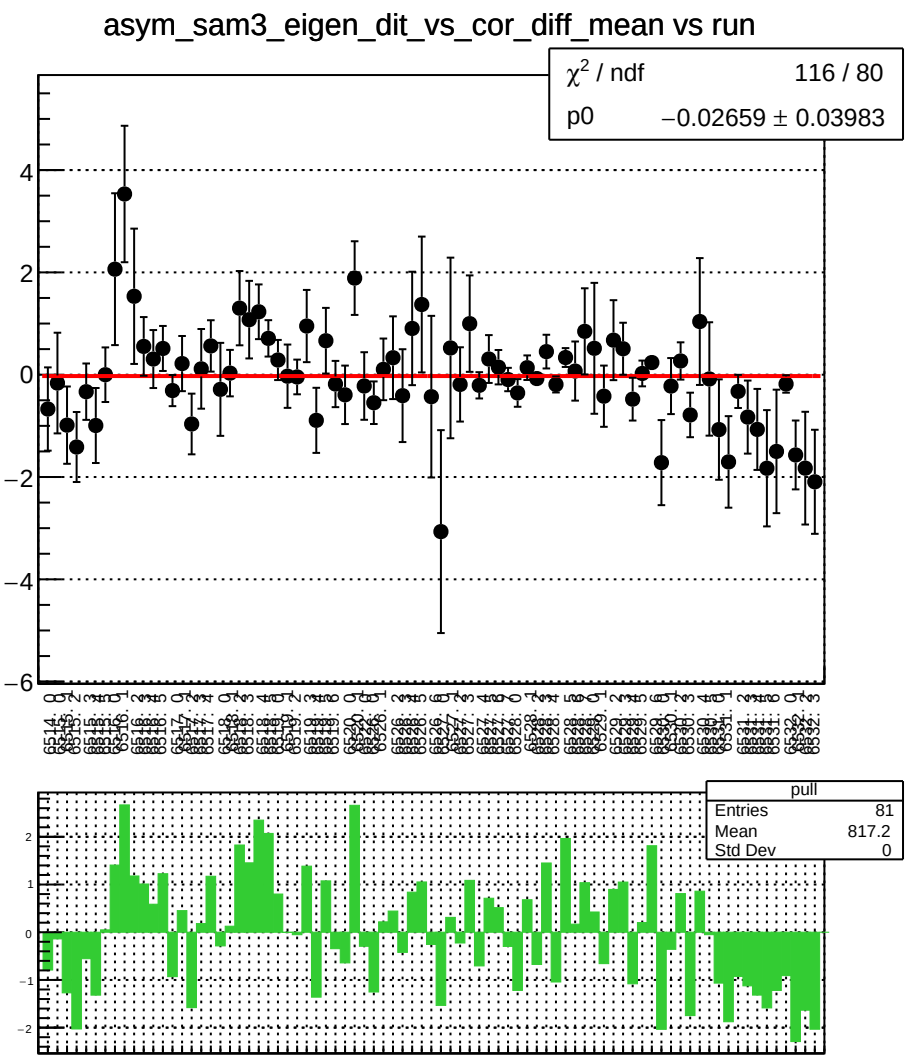

pull1D
Entries 81
Mean −0.01114
Std Dev 1.197

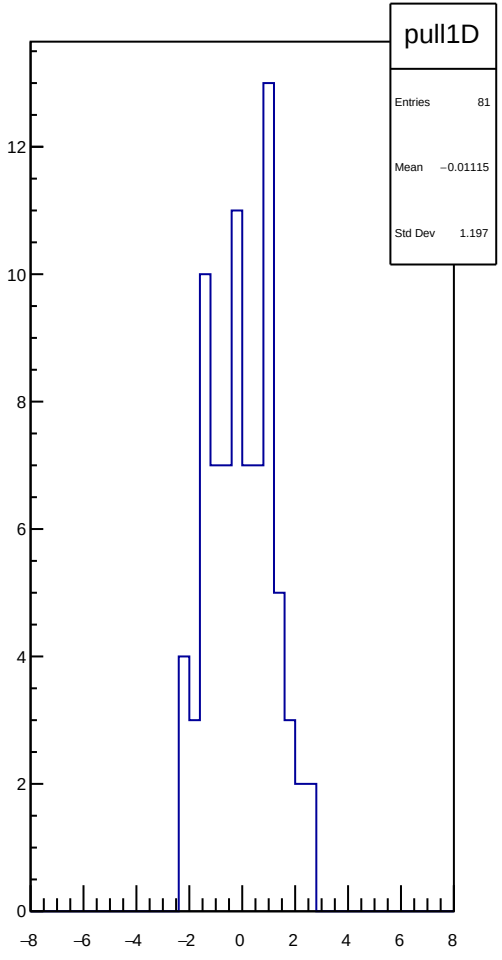

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.666e+05 / 80
p0 26.64 ± 0.02816
200
180
160
140
120
100
80
60
40
20

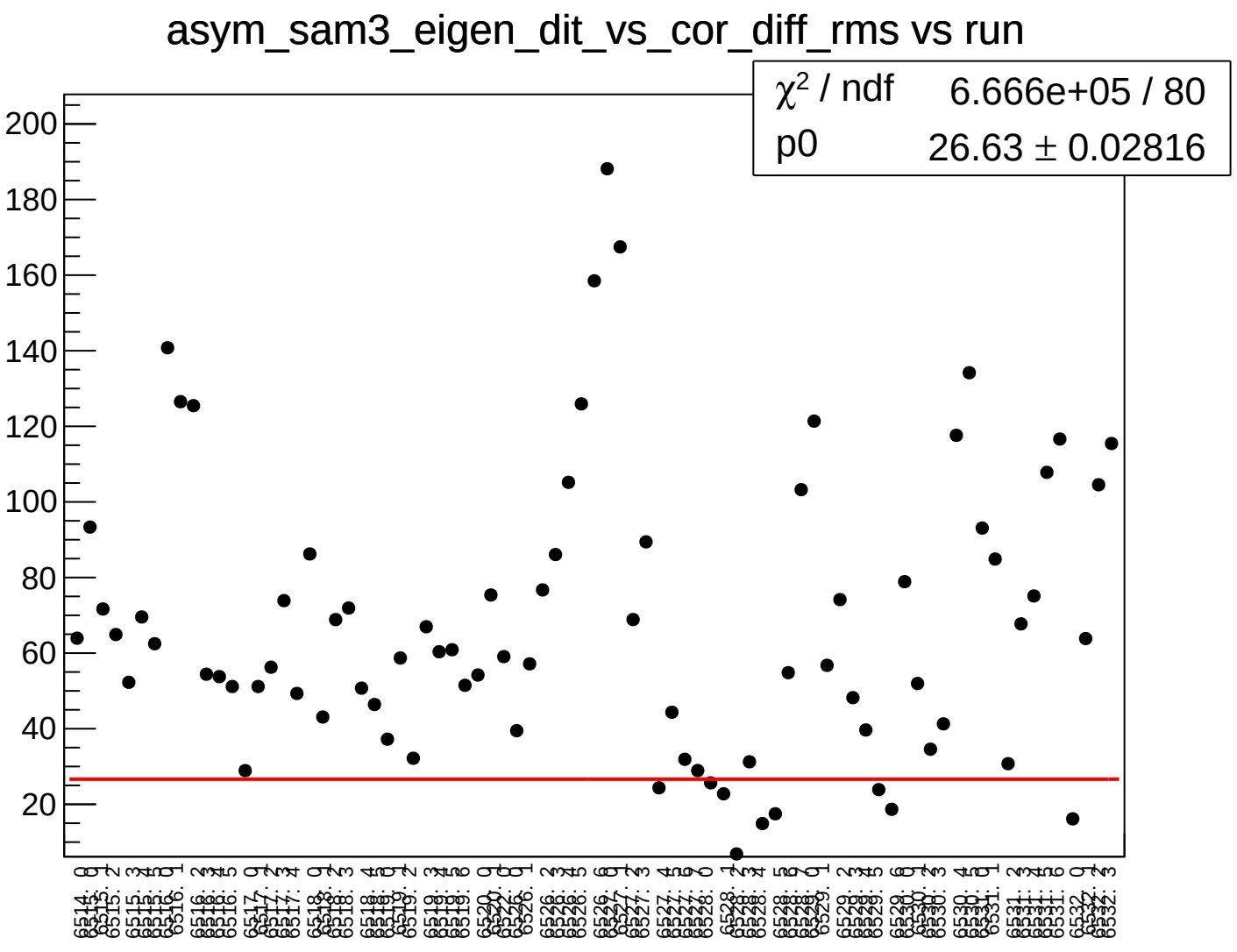

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.37 / 80
p0 −2.696e−06 ± 3.678e−06
pull
Entries 81
Mean 185.8
Std Dev 0

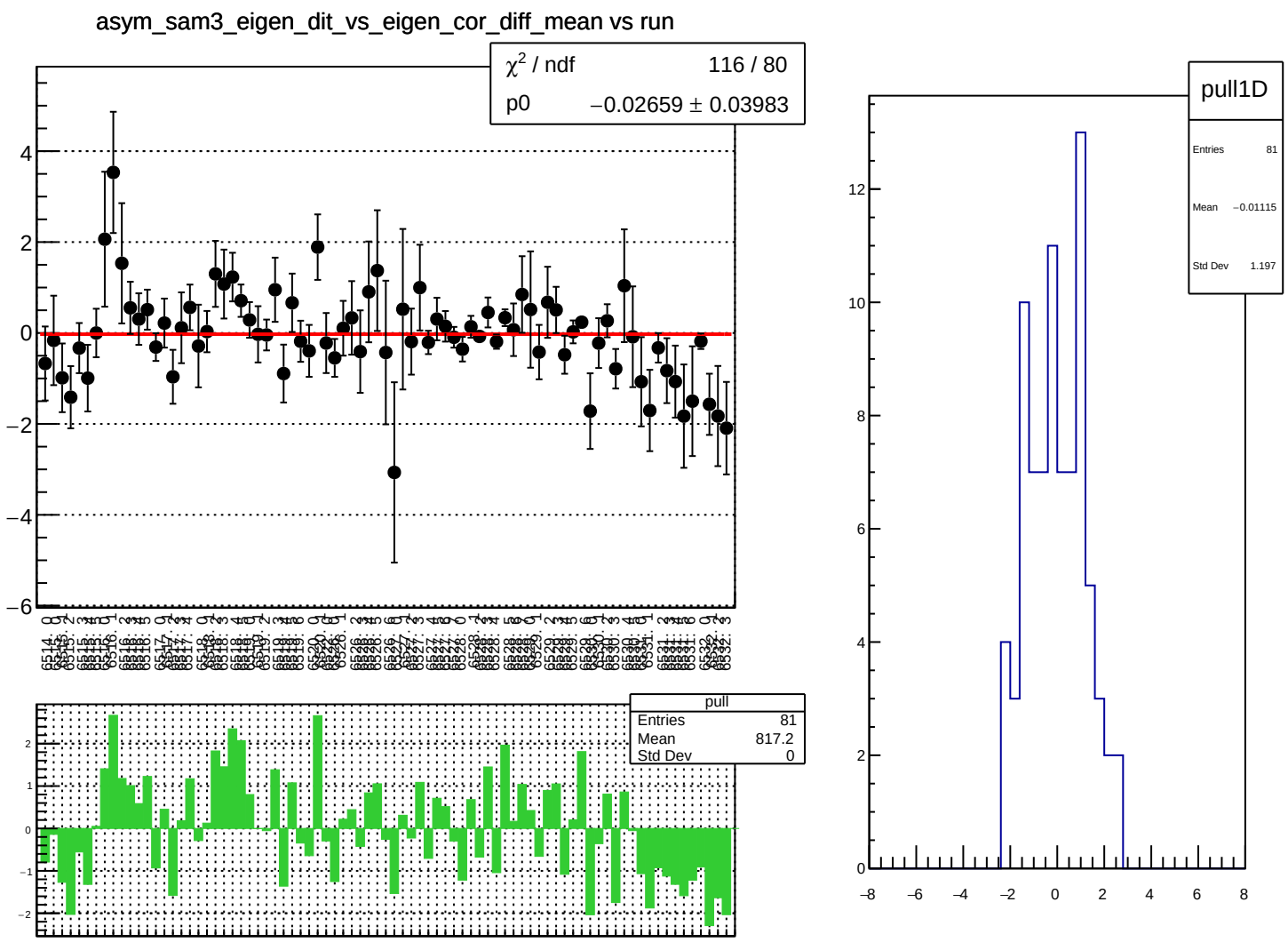

pull1D
Entries 81
Mean 0.01377
Std Dev 1.033

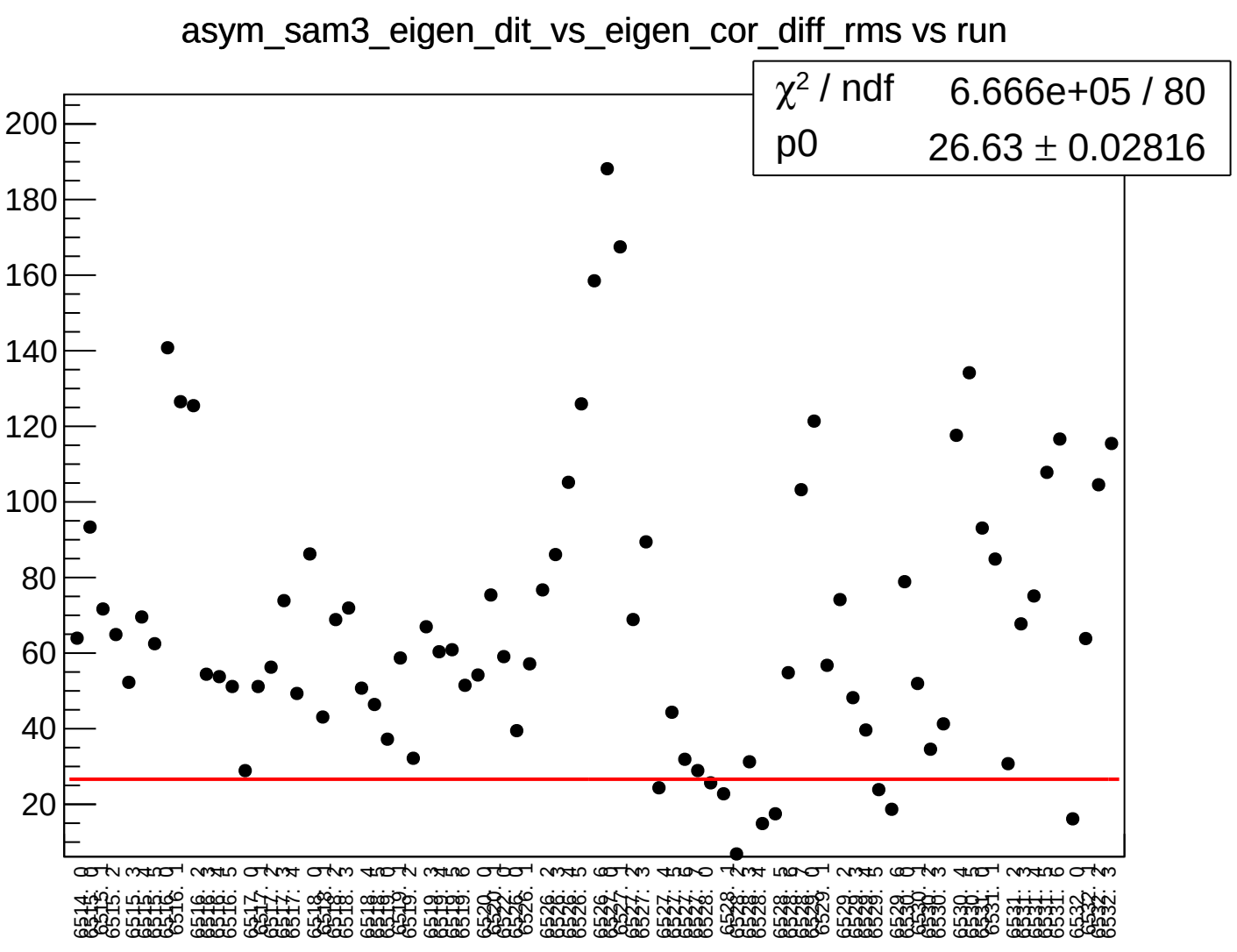

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.849e+04 / 80
p0 0.003209 ± 2.601e−06
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024

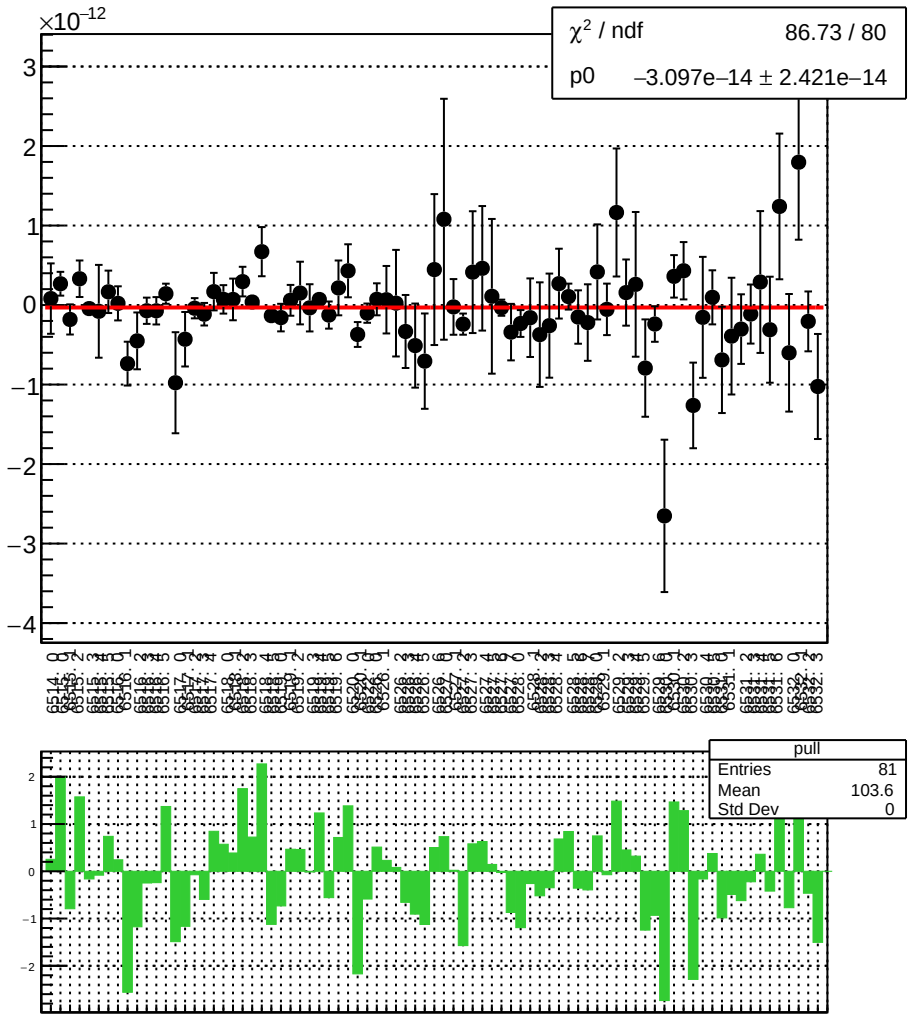

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 116 / 80
p0 −0.02659 ± 0.03983
pull
Entries 81
Mean 817.2
Std Dev 0

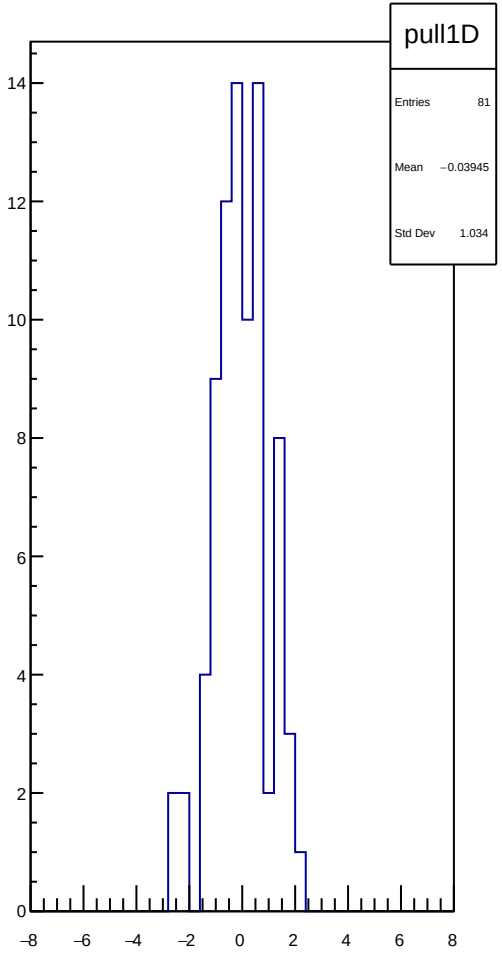

pull1D
Entries 81
Mean −0.01115
Std Dev 1.197

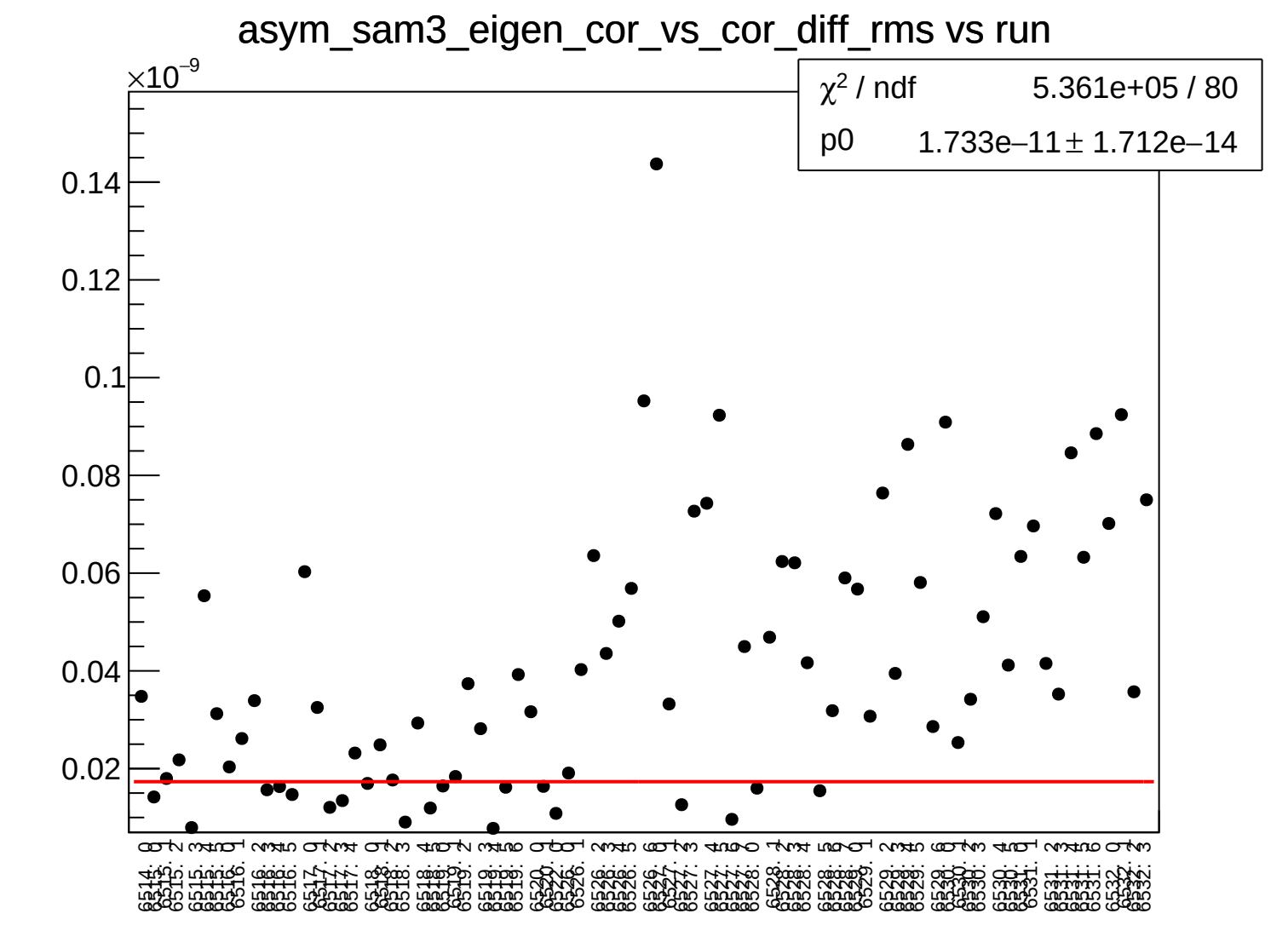

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.666e+05 / 80
p0 26.63 ± 0.02816
200
180
160
140
120
100
80
60
40
20

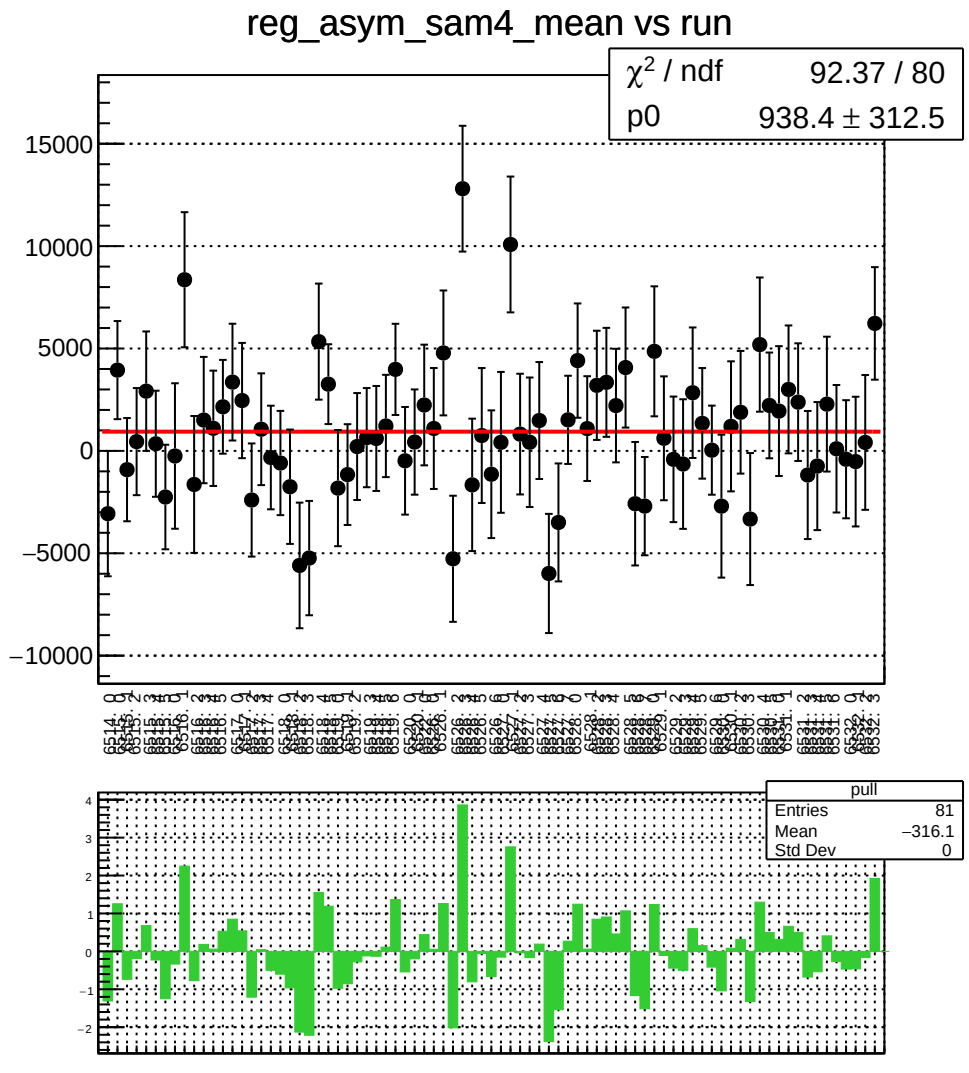

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 116 / 80
p0 −0.02659 ± 0.03983
pull
Entries 81
Mean 817.2
Std Dev 0
pull1D
Entries 81
Mean −0.01115
Std Dev 1.197

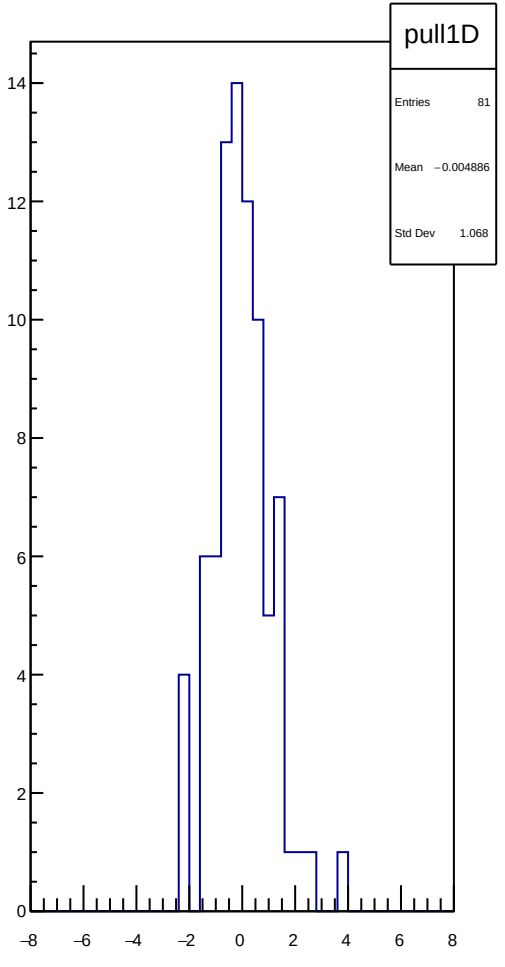

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.666e+05 / 80
p0 26.63 ± 0.02816
200
180
160
140
120
100
80
60
40
20

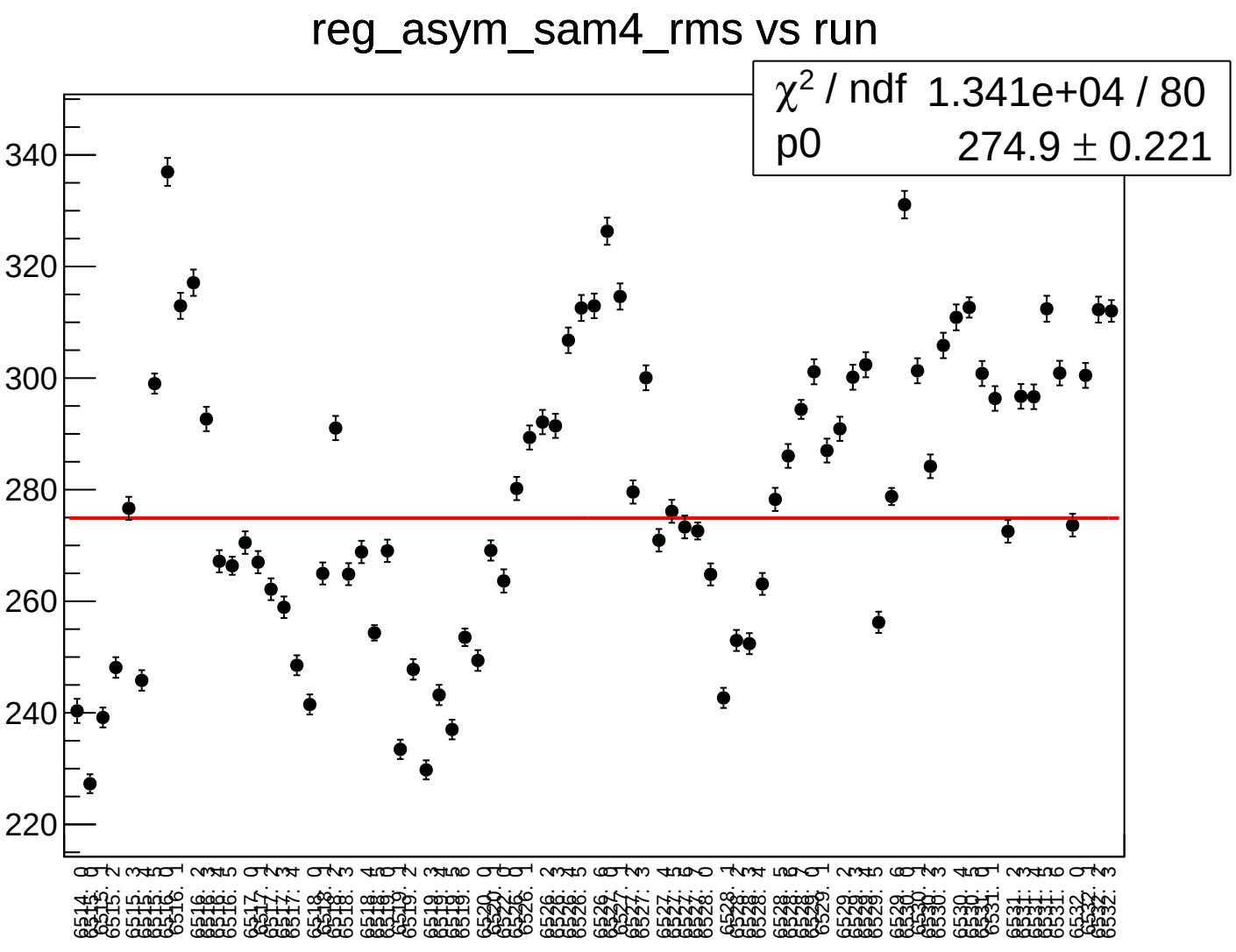

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.73 / 80
p0 −3.097e−14 ± 2.421e−14
pull
Entries 81
Mean 103.6
Std Dev 0

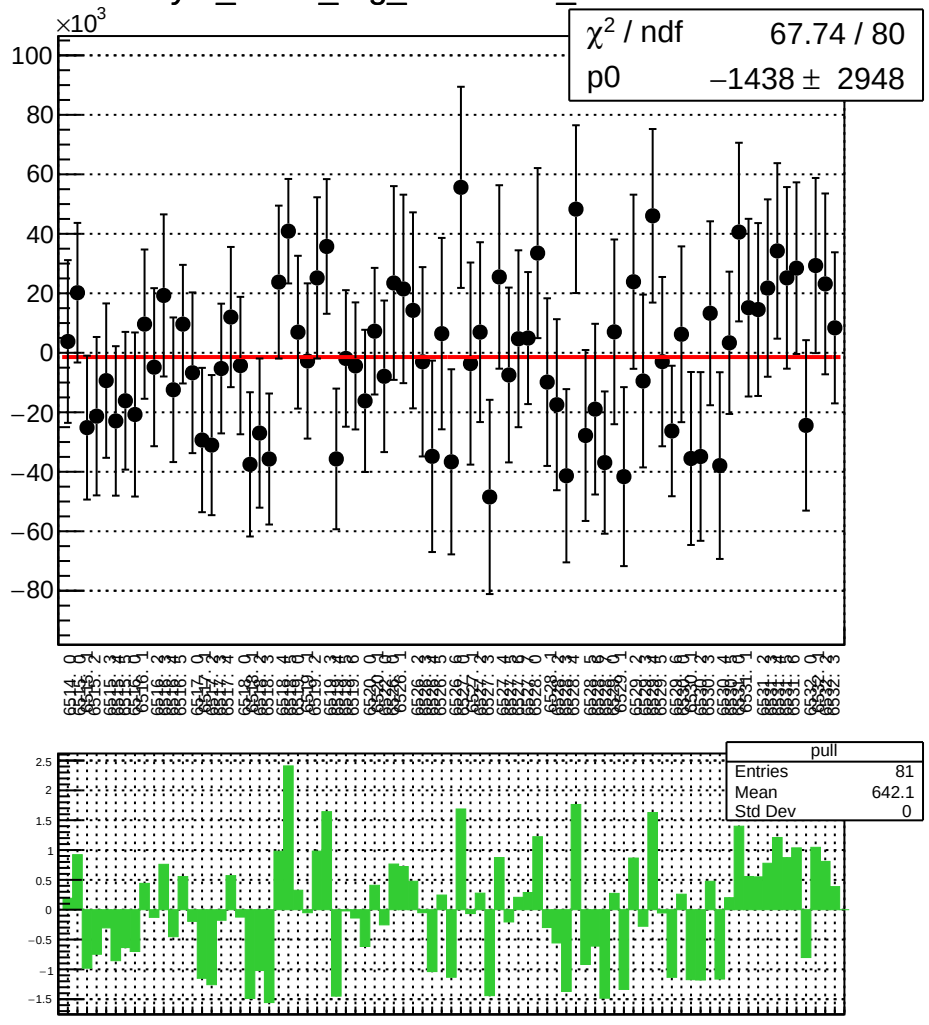

pull1D
Entries 81
Mean −0.03945
Std Dev 1.034

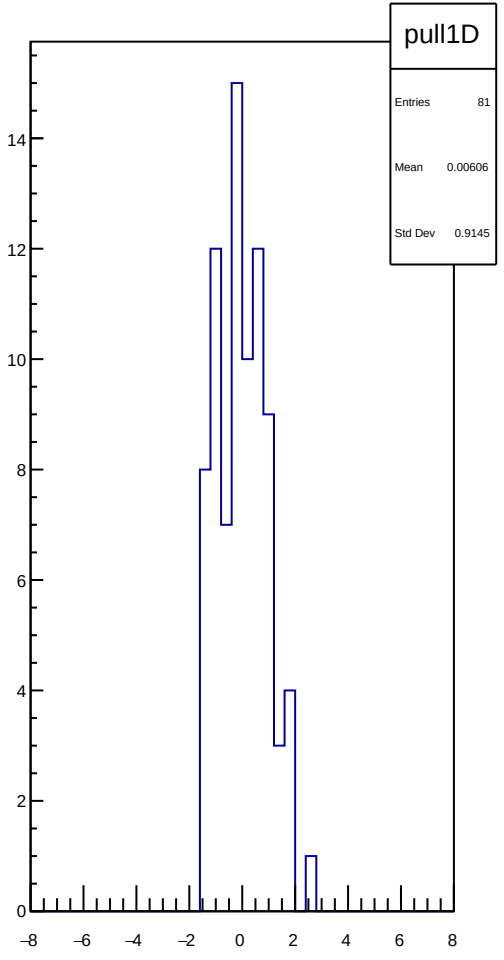

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.361e+05 / 80
p0 1.733e−11 ± 1.712e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

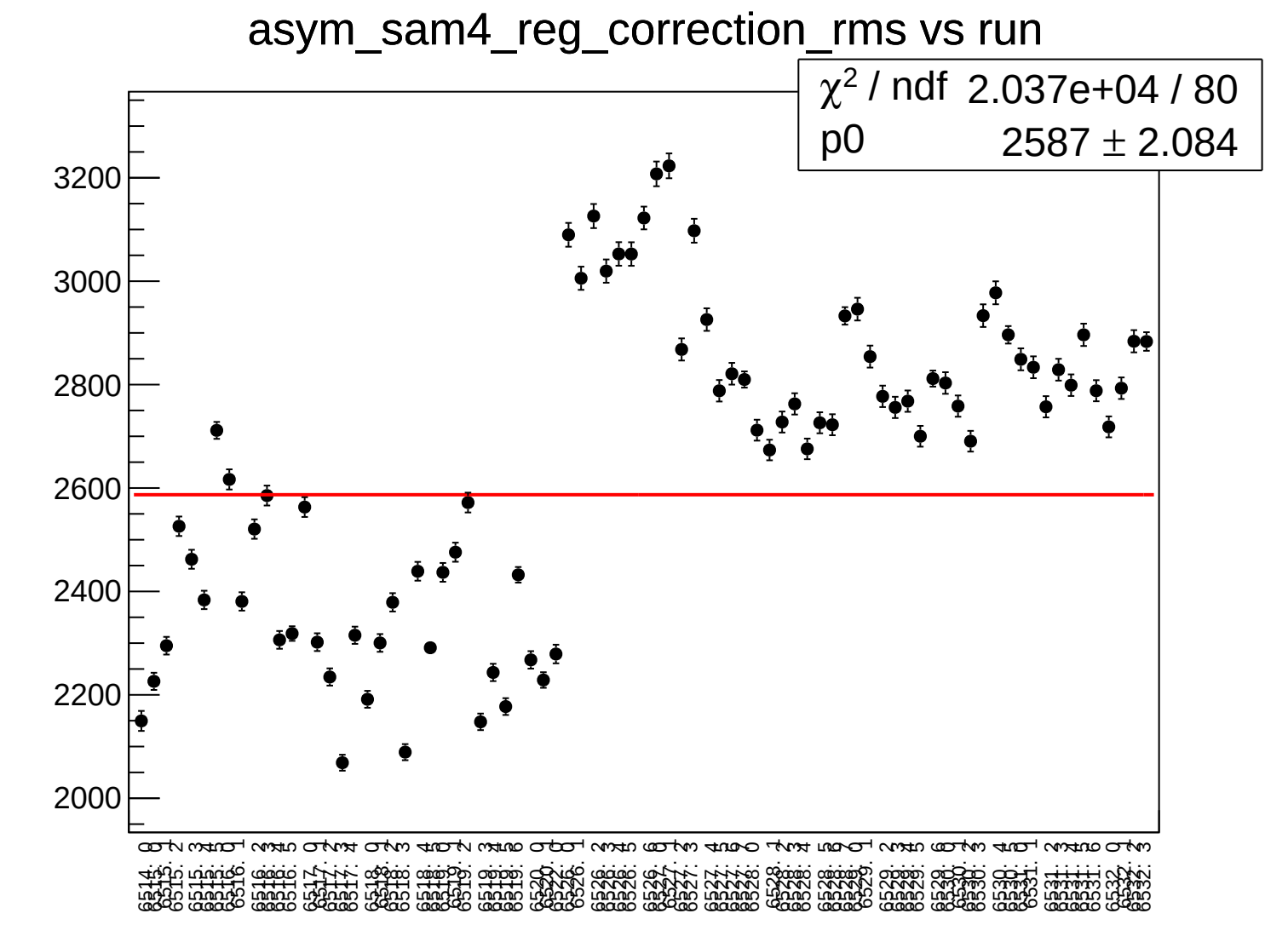

reg_asym_sam4_mean vs run
χ² / ndf 92.37 / 80
p0 938.4 ± 312.5
15000
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −316.1
Std Dev 0

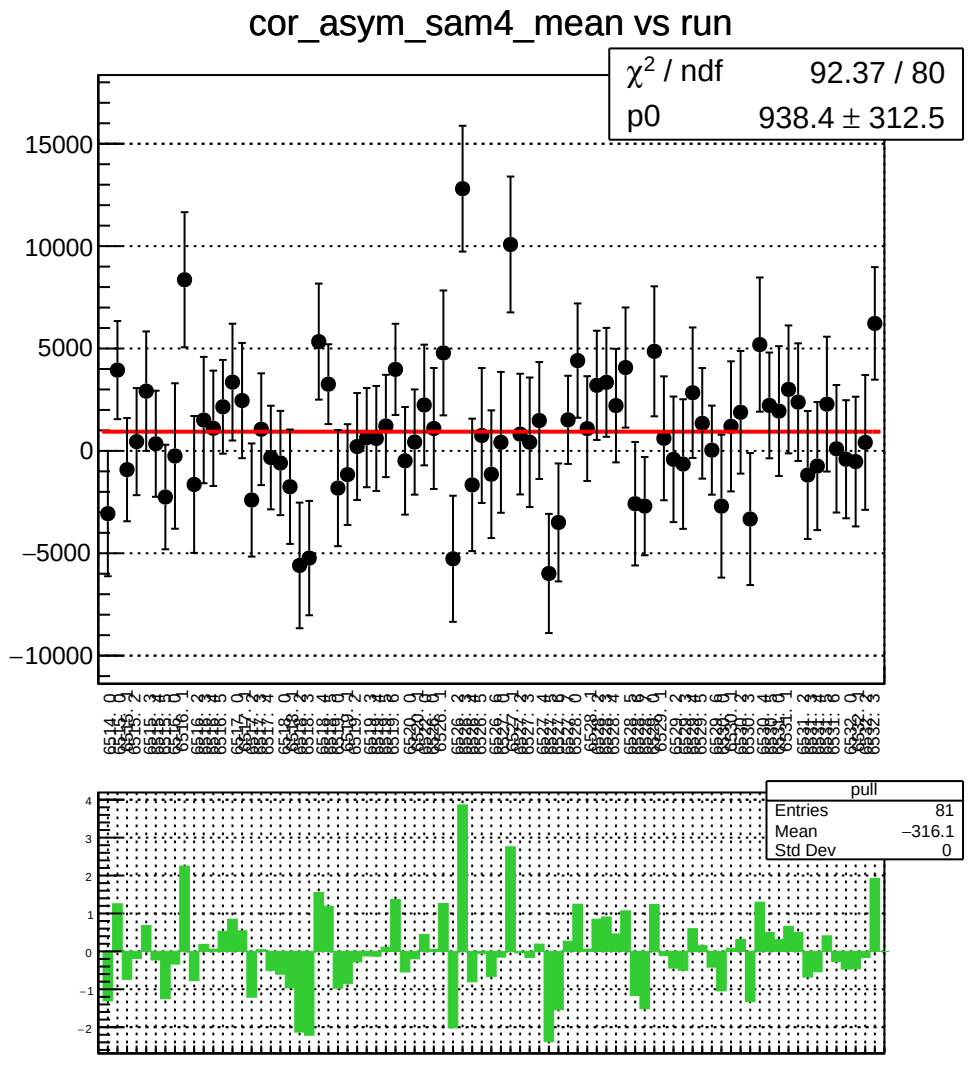

pull1D
Entries 81
Mean −0.004886
Std Dev 1.068

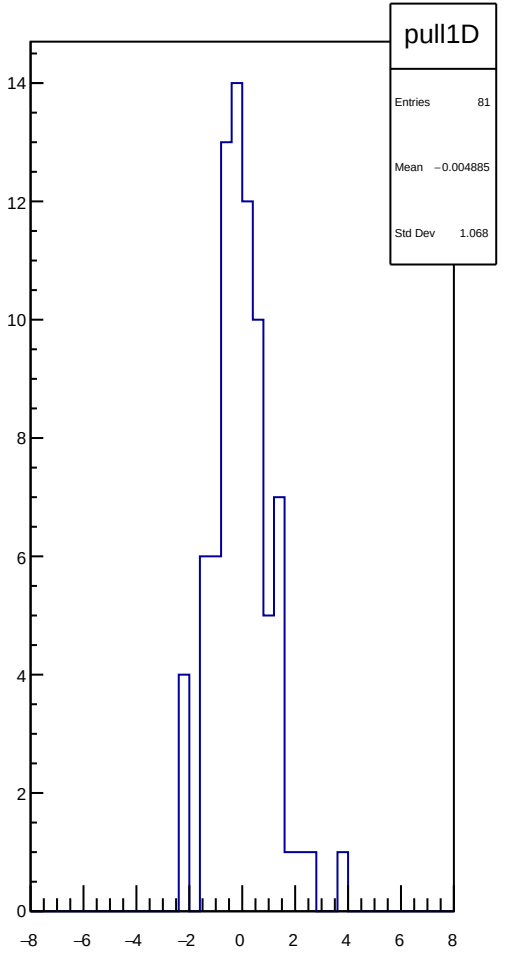

reg_asym_sam4_rms vs run
χ² / ndf 1.341e+04 / 80
p0 274.9 ± 0.221
340
320
300
280
260
240
220

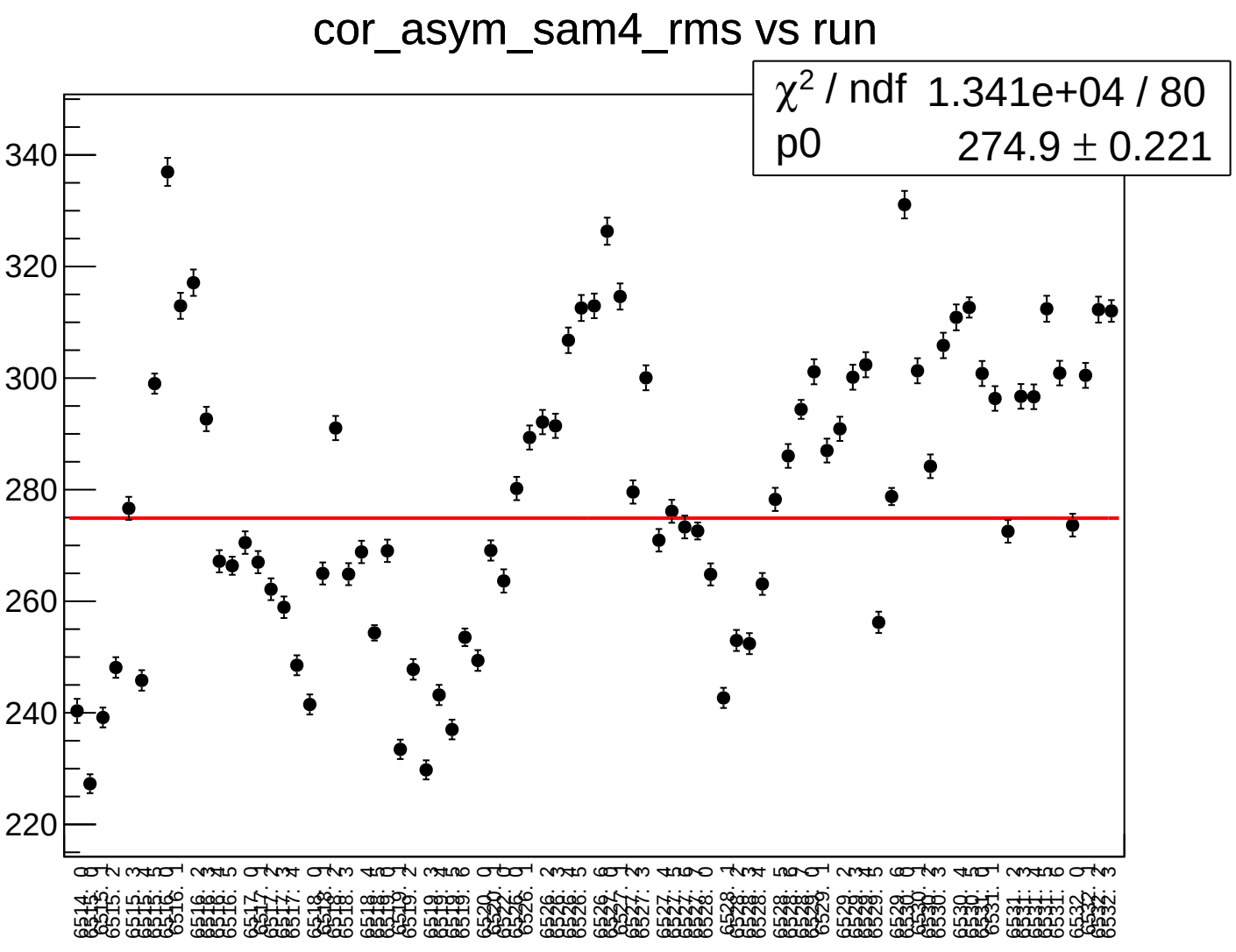

asym_sam4_reg_correction_mean vs run
×10^3
χ² / ndf 67.74 / 80
p0 −1438 ± 2948
pull
Entries 81
Mean 642.1
Std Dev 0

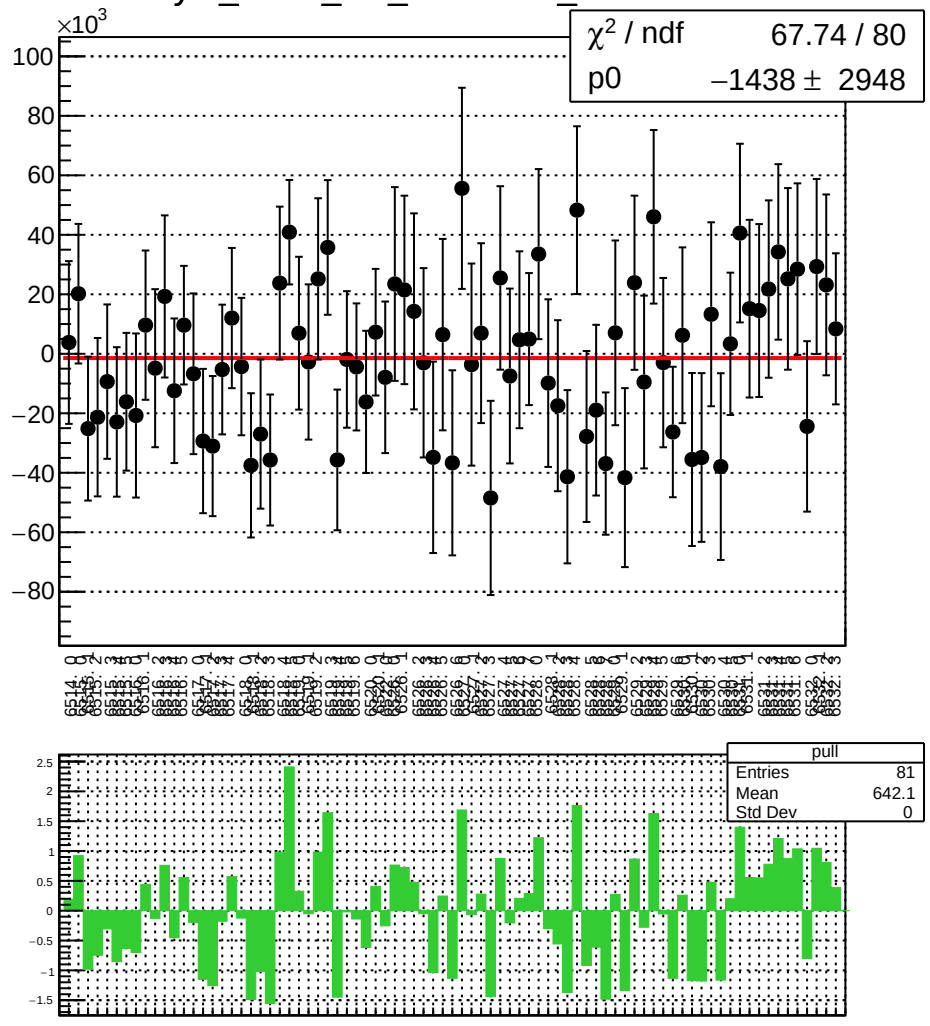

pull1D
Entries 81
Mean 0.00606
Std Dev 0.9145

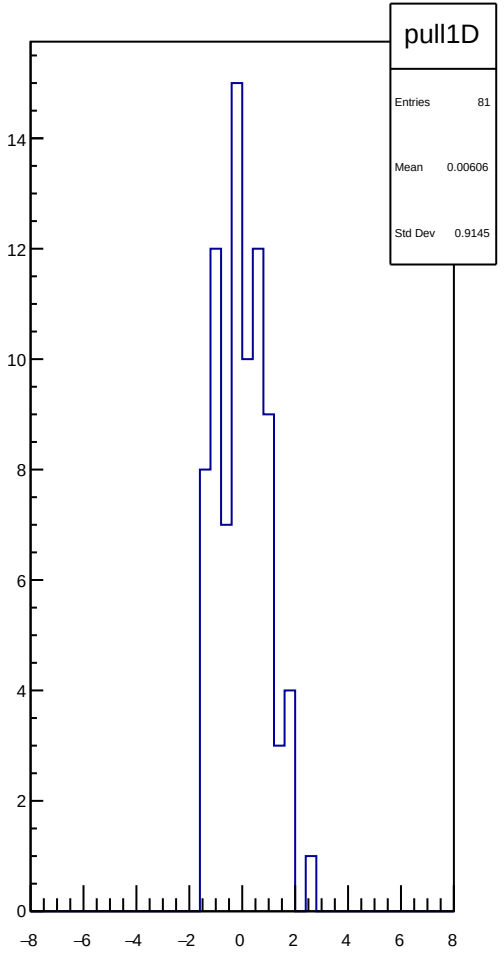

asym_sam4_reg_correction_rms vs run
χ² / ndf 2.037e+04 / 80
p0 2587 ± 2.084
3200
3000
2800
2600
2400
2200
2000

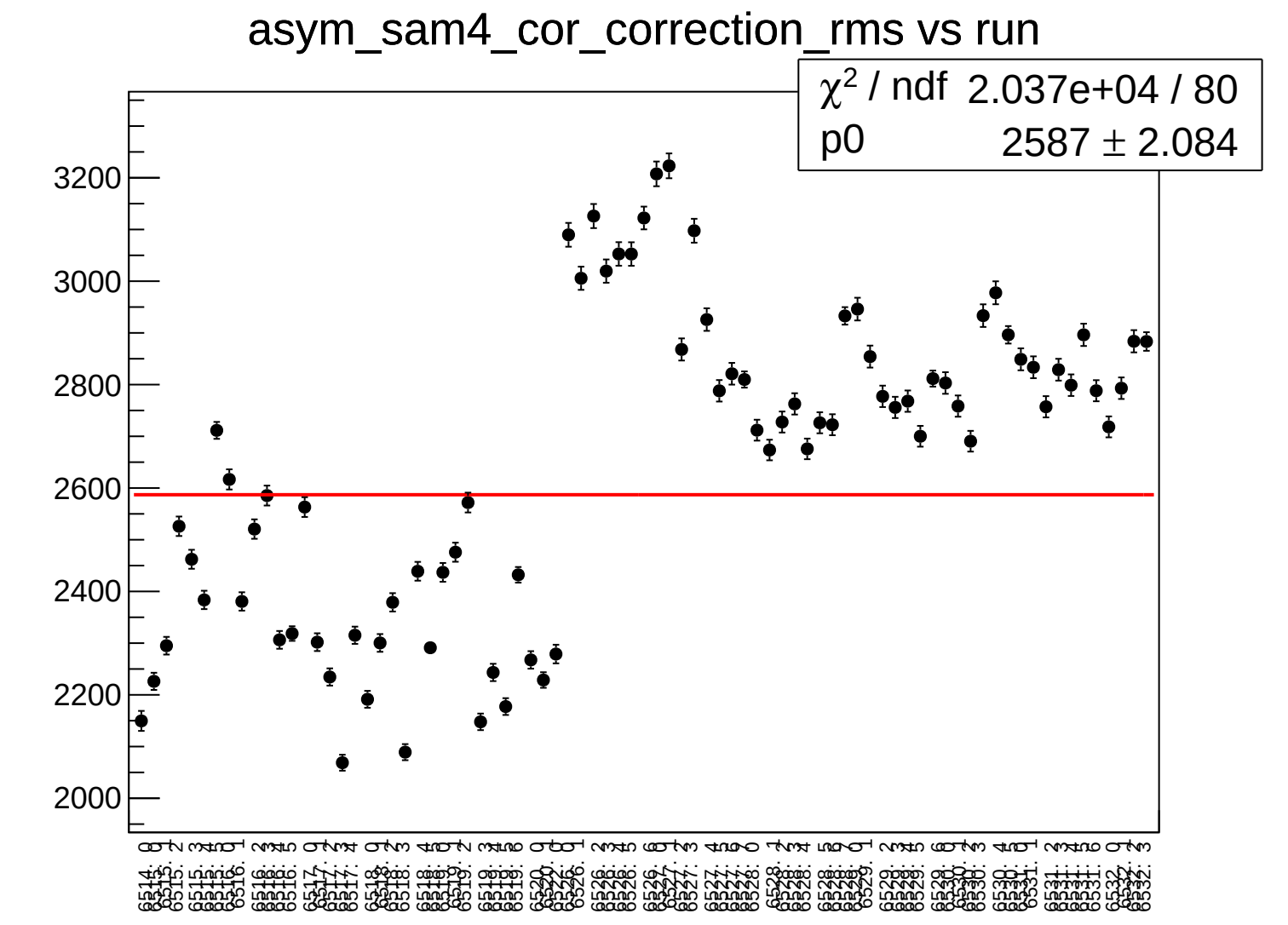

cor_asym_sam4_mean vs run
χ² / ndf 92.37 / 80
p0 938.4 ± 312.5
15000
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −316.1
Std Dev 0

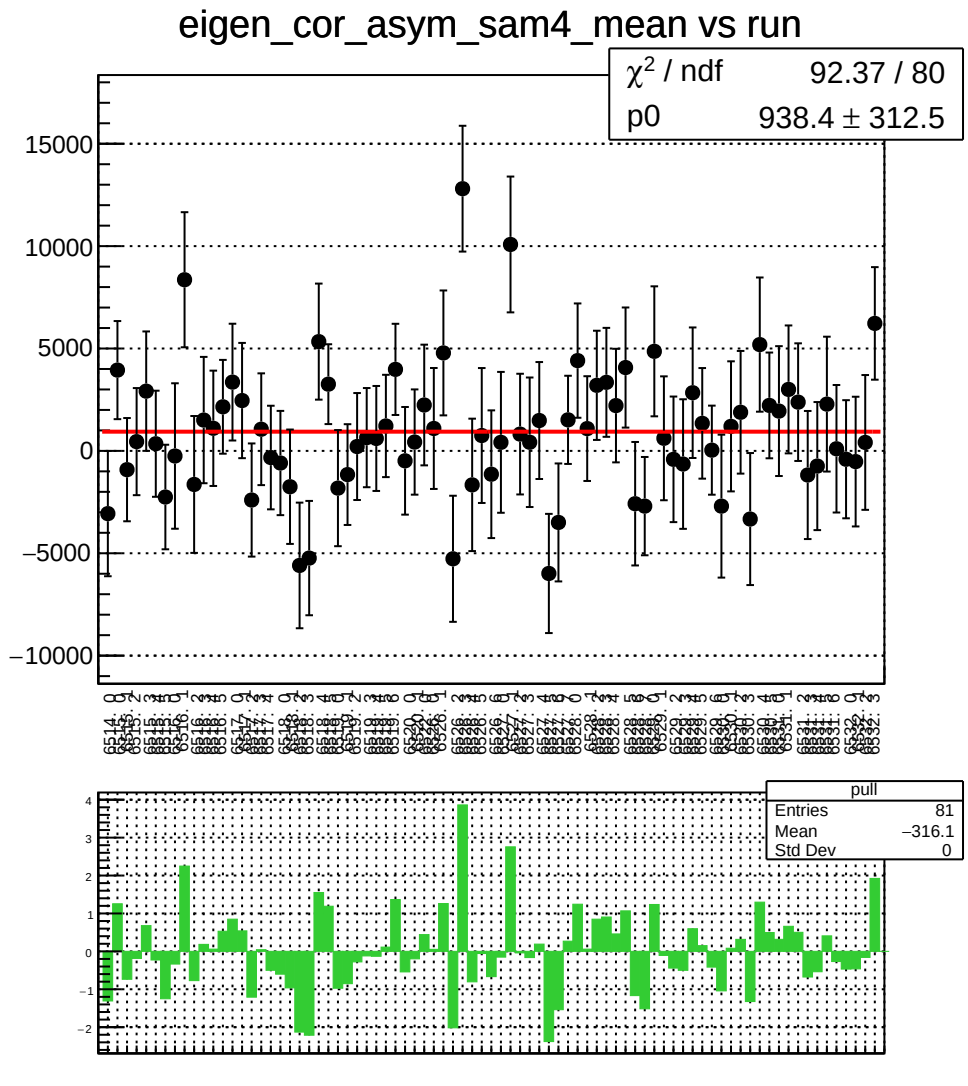

pull1D
Entries 81
Mean −0.004885
Std Dev 1.068
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

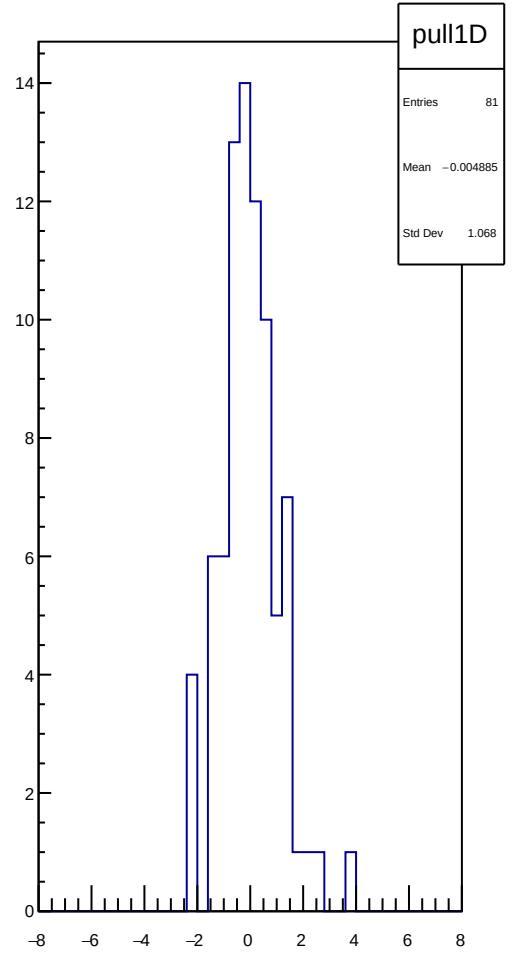

cor_asym_sam4_rms vs run
χ² / ndf 1.341e+04 / 80
p0 274.9 ± 0.221
340
320
300
280
260
240
220

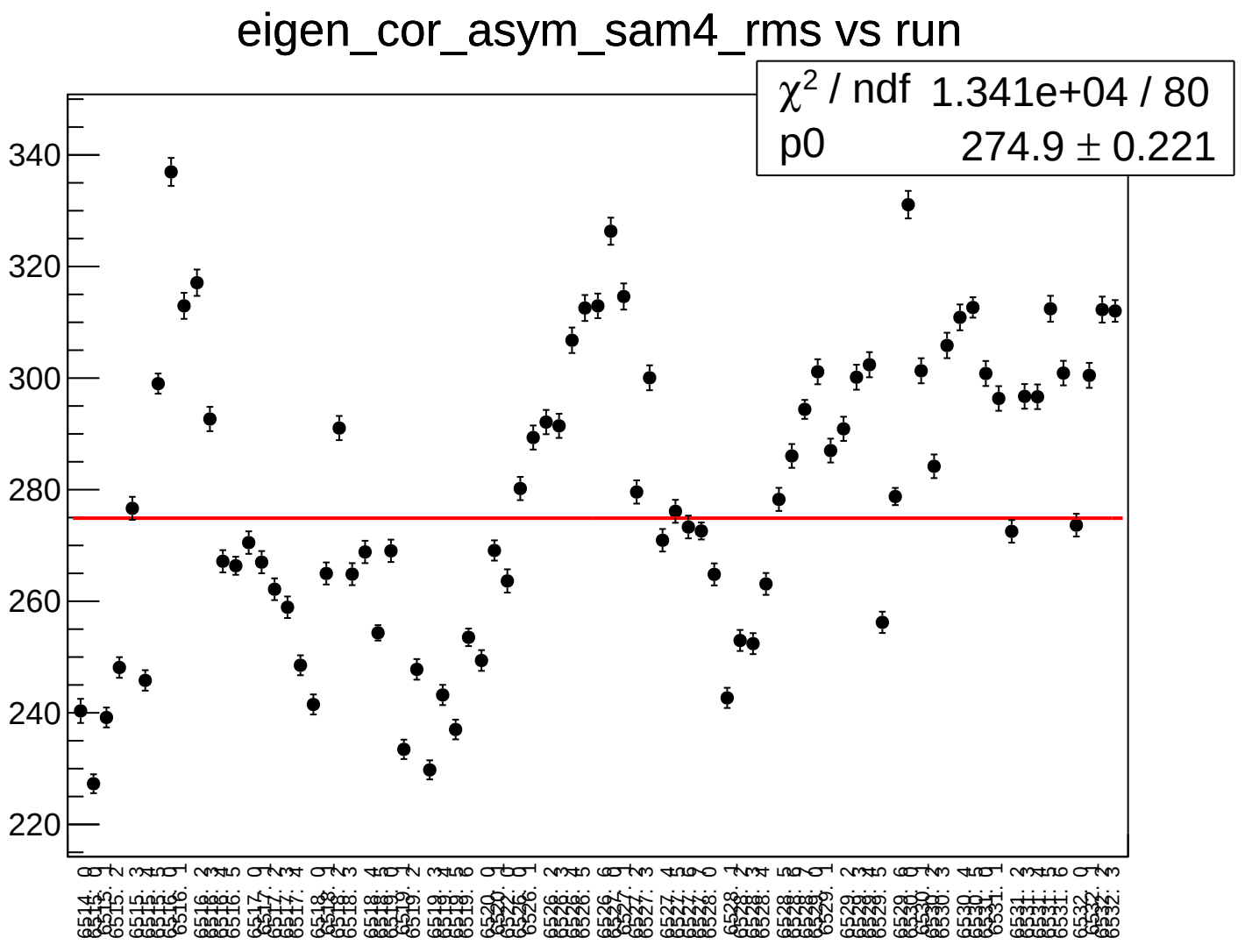

asym_sam4_cor_correction_mean vs run
χ² / ndf 67.74 / 80
p0 −1438 ± 2948
pull
Entries 81
Mean 642.1
Std Dev 0

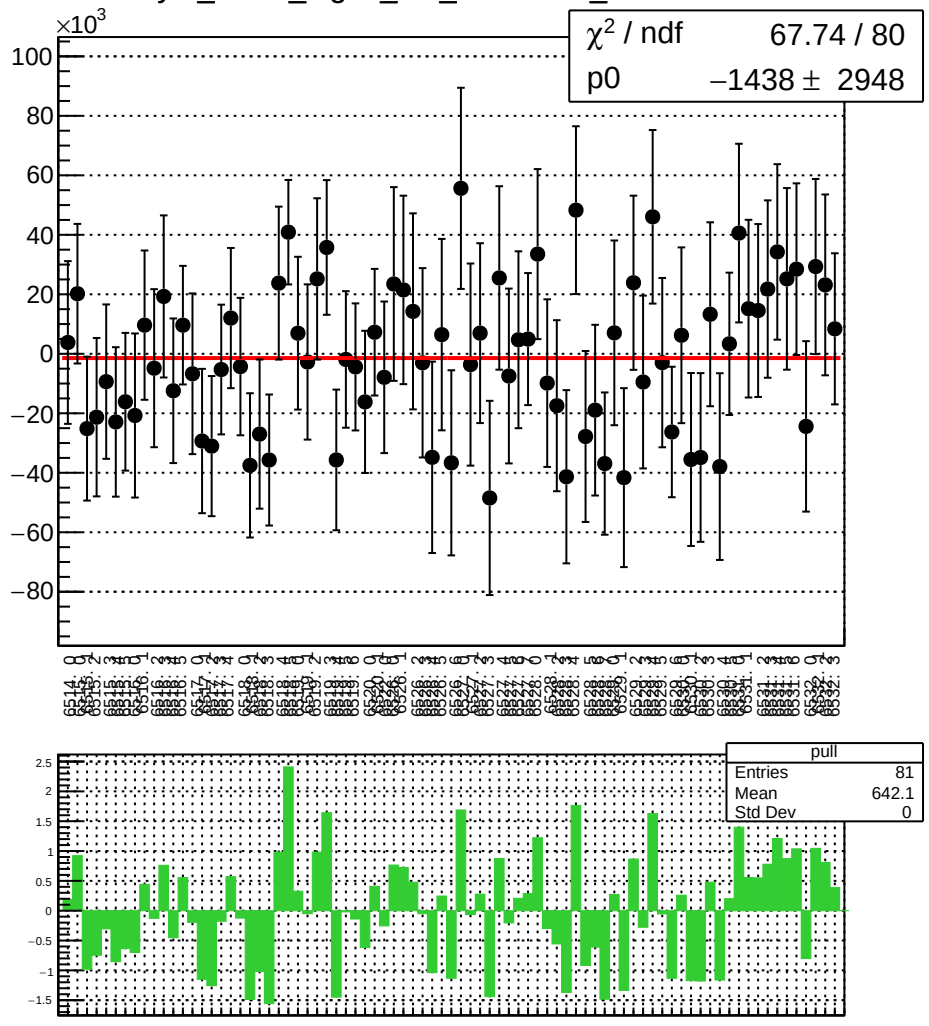

pull1D
Entries 81
Mean 0.00606
Std Dev 0.9145

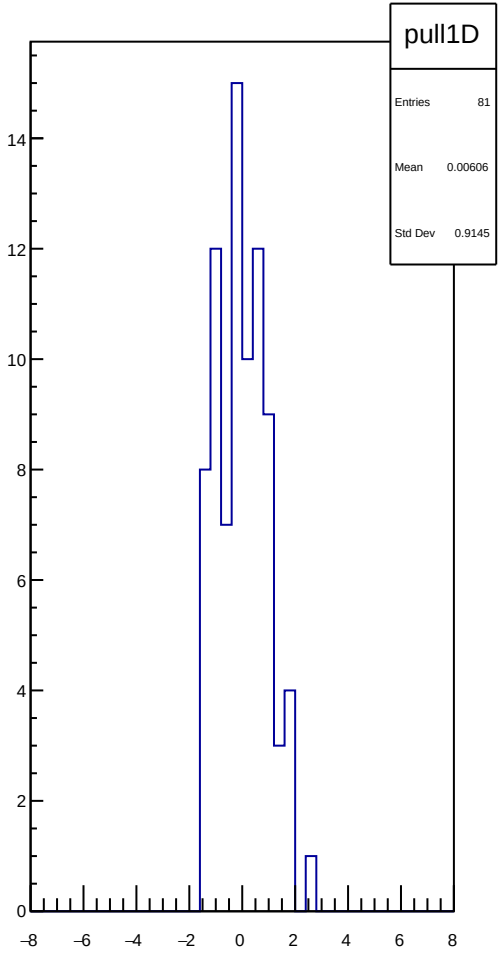

asym_sam4_cor_correction_rms vs run
χ² / ndf 2.037e+04 / 80
p0 2587 ± 2.084
3200
3000
2800
2600
2400
2200
2000

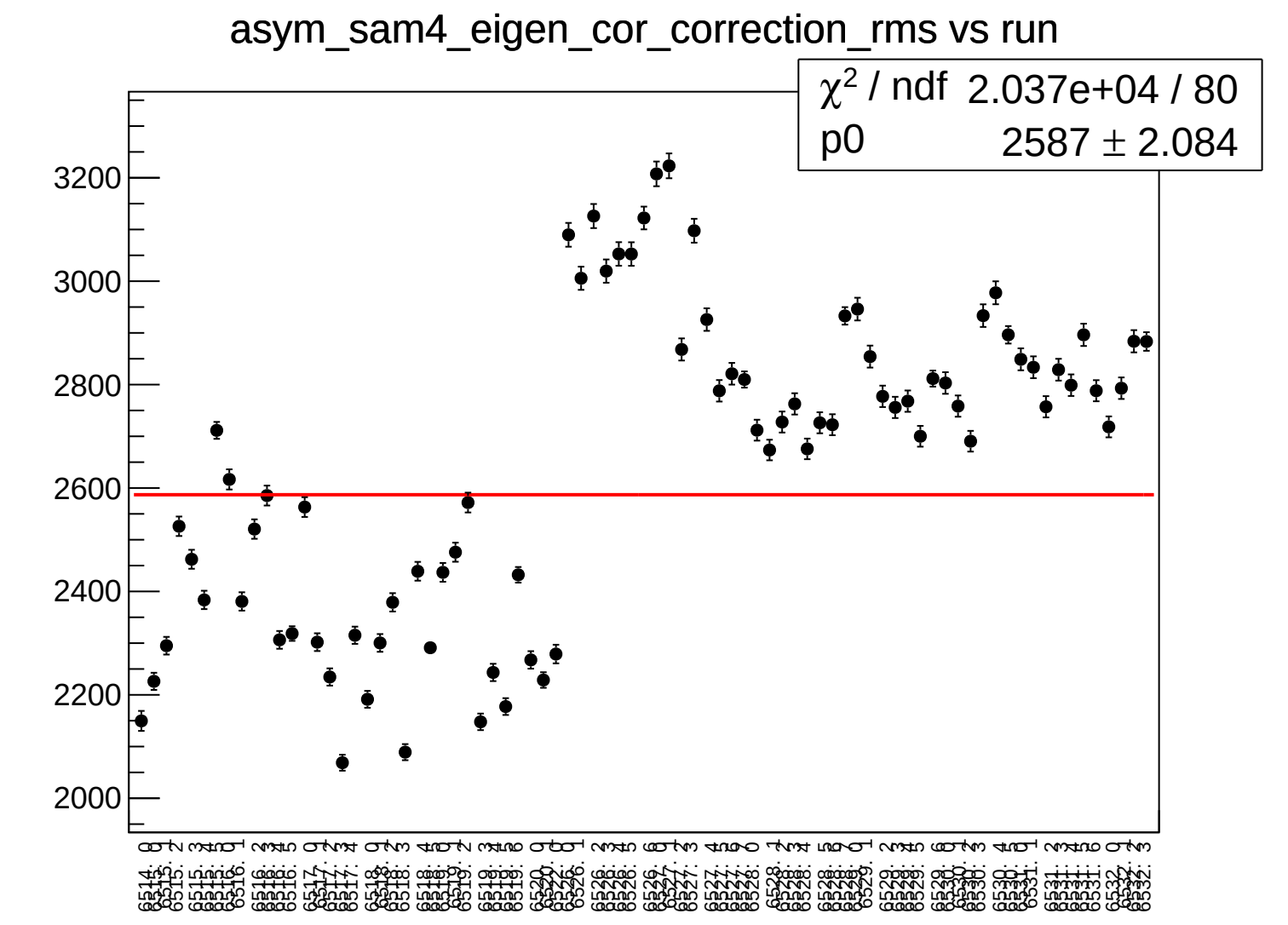

eigen_cor_asym_sam4_mean vs run
χ² / ndf 92.37 / 80
p0 938.4 ± 312.5
15000
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −316.1
Std Dev 0
4
3
2
1
0
−1
−2

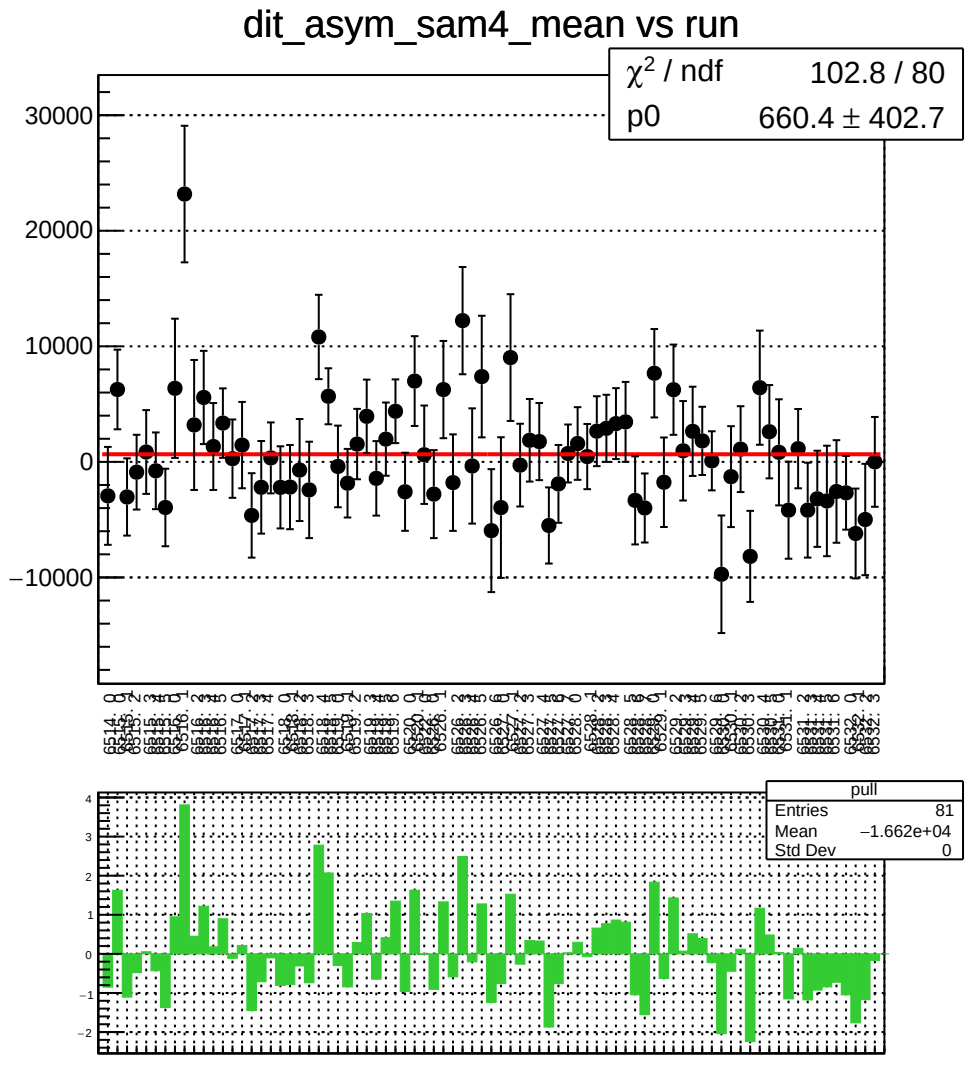

pull1D
Entries 81
Mean −0.004885
Std Dev 1.068
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

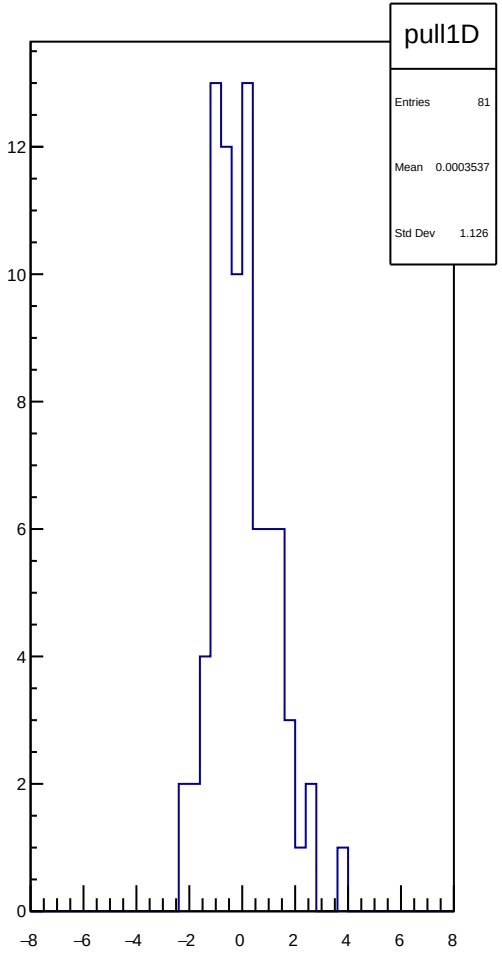

eigen_cor_asym_sam4_rms vs run
χ² / ndf 1.341e+04 / 80
p0 274.9 ± 0.221
340
320
300
280
260
240
220

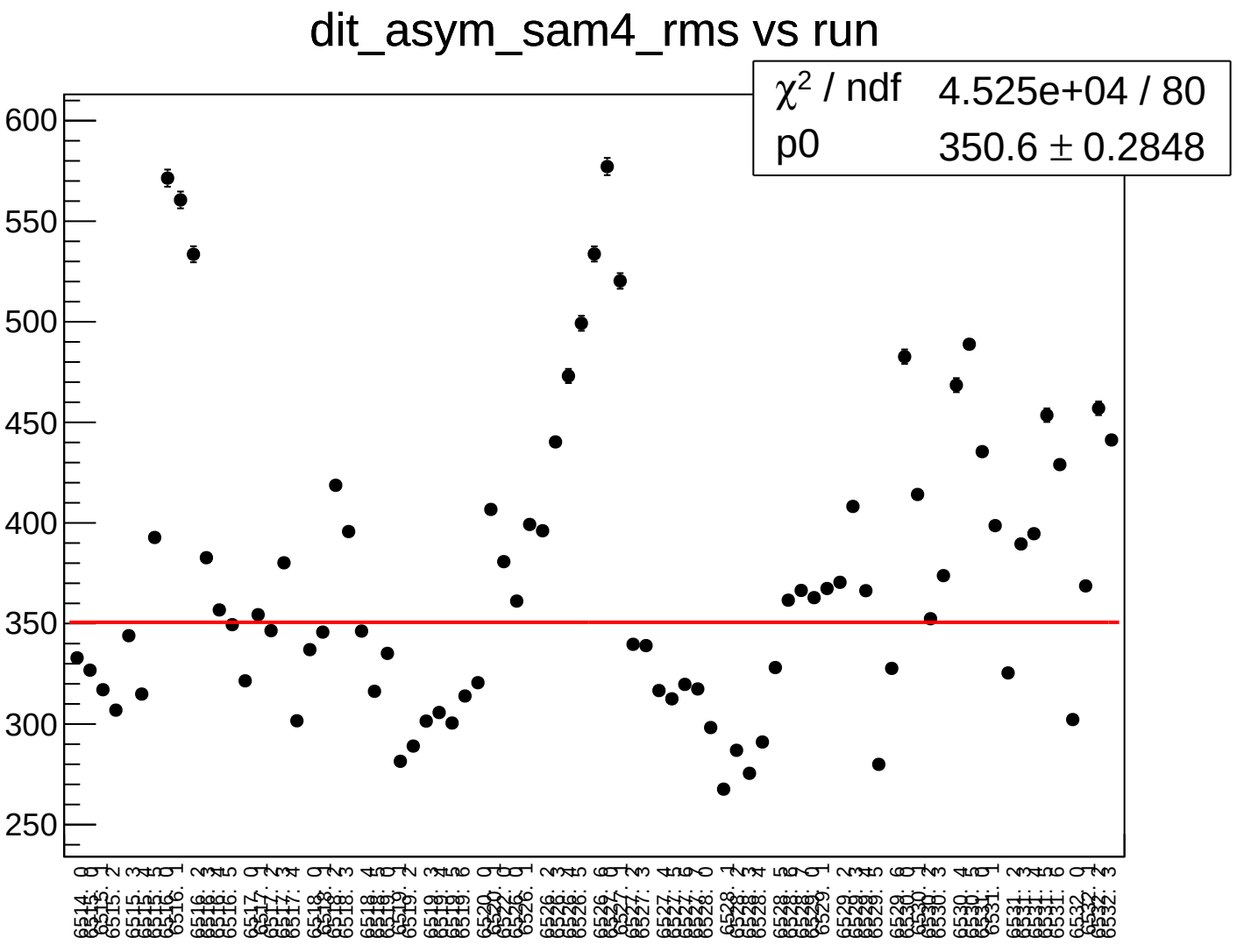

asym_sam4_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 67.74 / 80
p0 −1438 ± 2948
pull
Entries 81
Mean 642.1
Std Dev 0

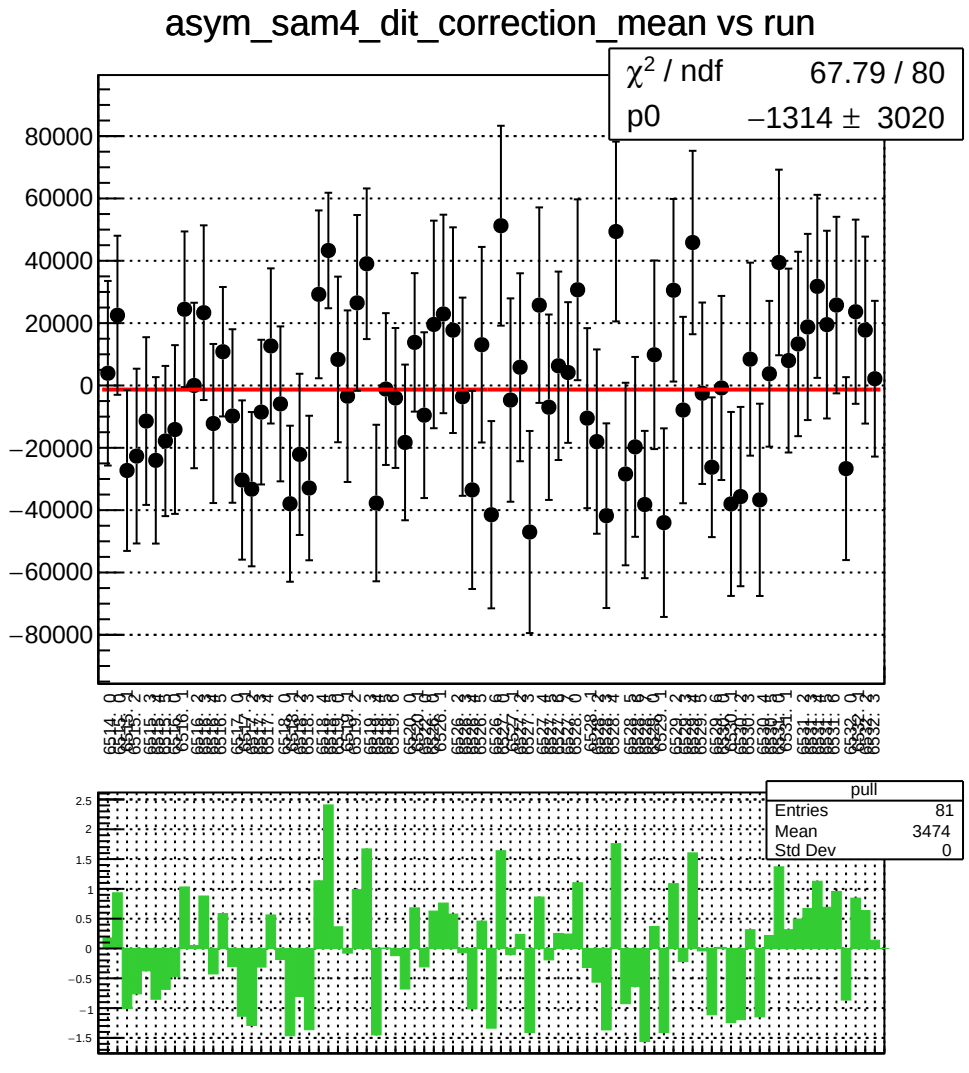

pull1D
Entries 81
Mean 0.00606
Std Dev 0.9145

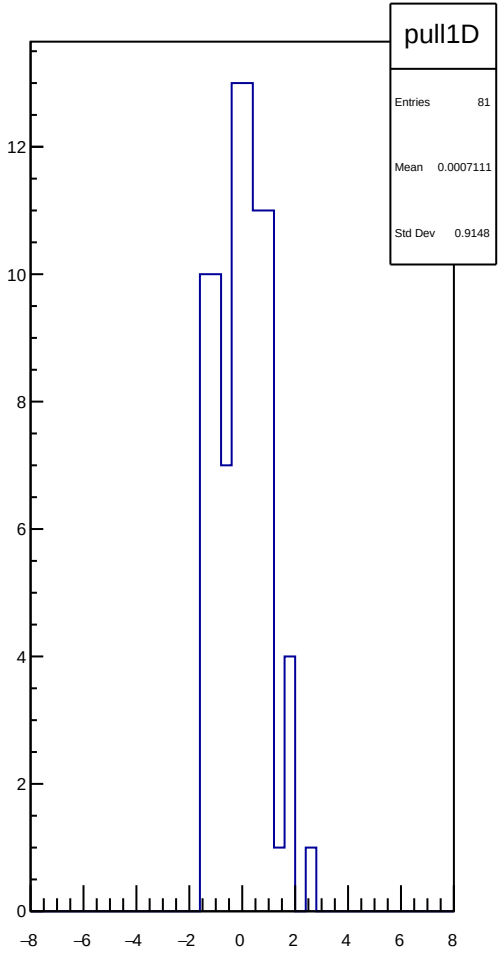

asym_sam4_eigen_cor_correction_rms vs run
χ² / ndf 2.037e+04 / 80
p0 2587 ± 2.084
3200
3000
2800
2600
2400
2200
2000

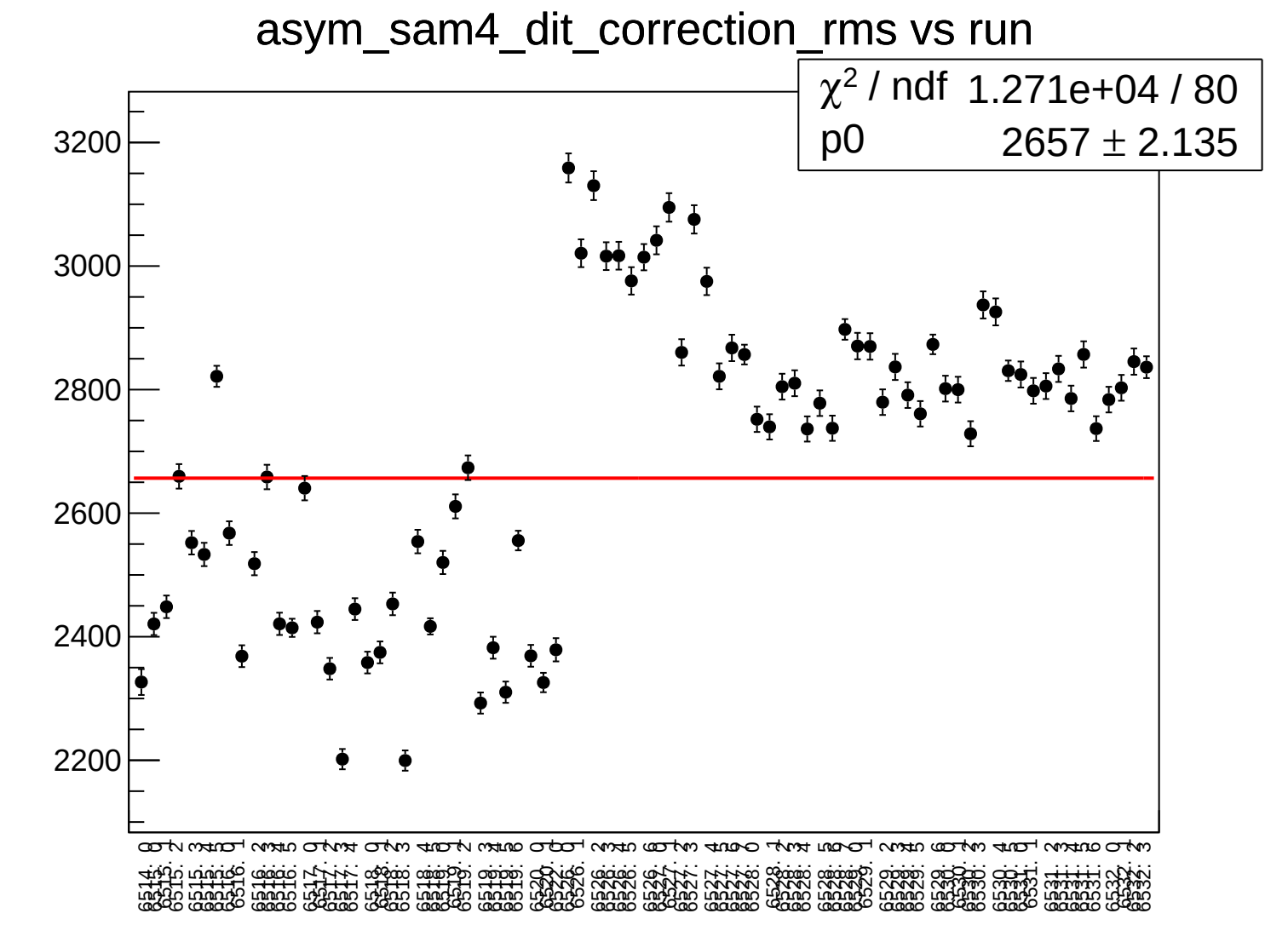

dit_asym_sam4_mean vs run
χ² / ndf 102.8 / 80
p0 660.4 ± 402.7
30000
20000
10000
0
−10000
pull
Entries 81
Mean −1.662e+04
Std Dev 0
4
3
2
1
0
−1
−2

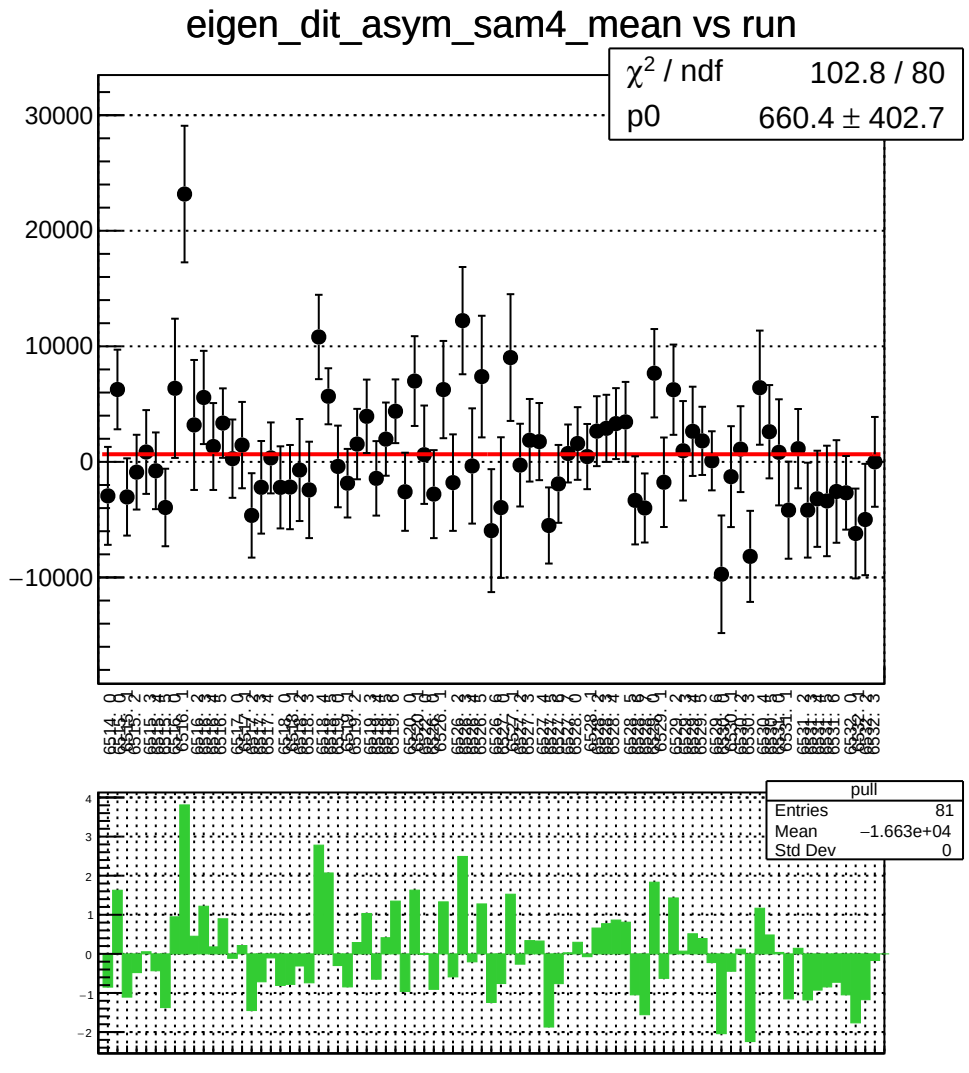

pull1D
Entries 81
Mean 0.0003537
Std Dev 1.126
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

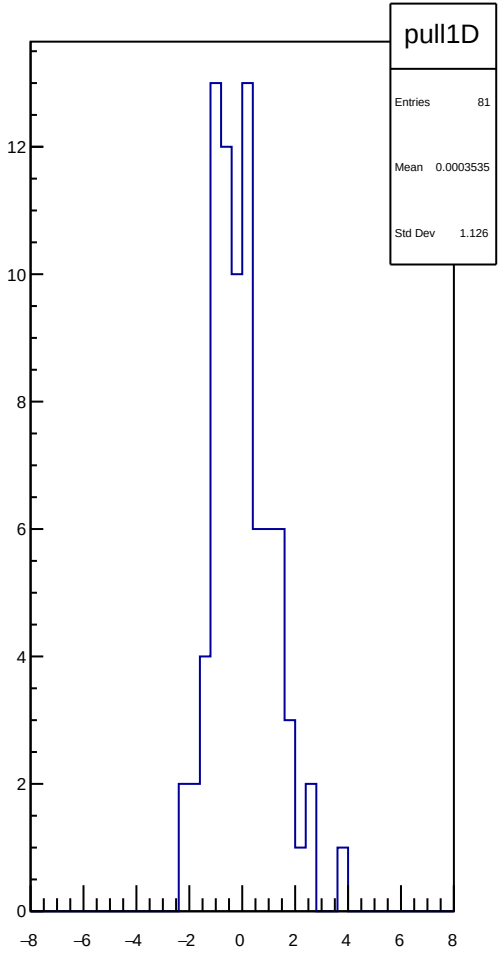

dit_asym_sam4_rms vs run
χ² / ndf 4.525e+04 / 80
p0 350.6 ± 0.2848
600
550
500
450
400
350
300
250

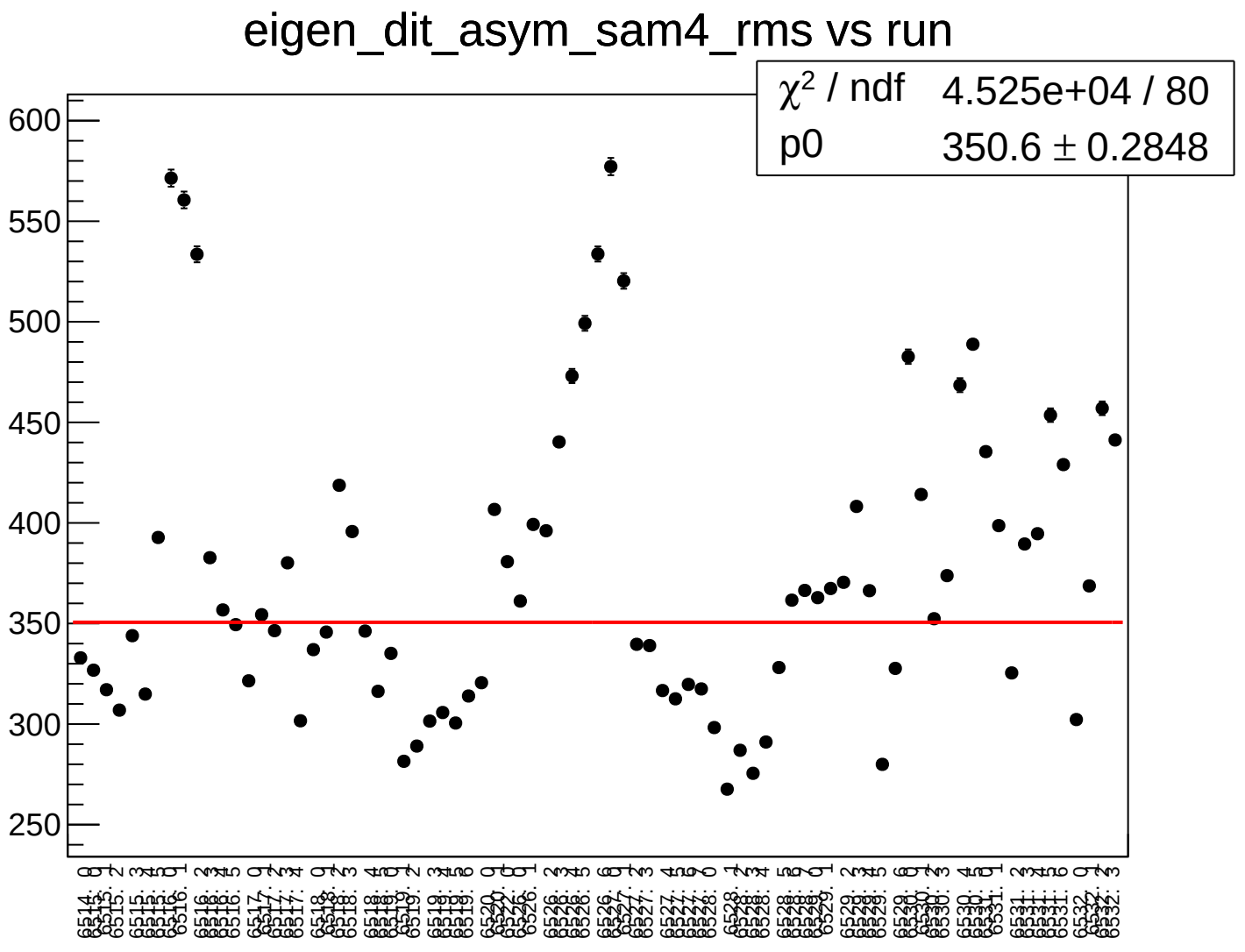

asym_sam4_dit_correction_mean vs run
χ² / ndf 67.79 / 80
p0 −1314 ± 3020
pull
Entries 81
Mean 3474
Std Dev 0

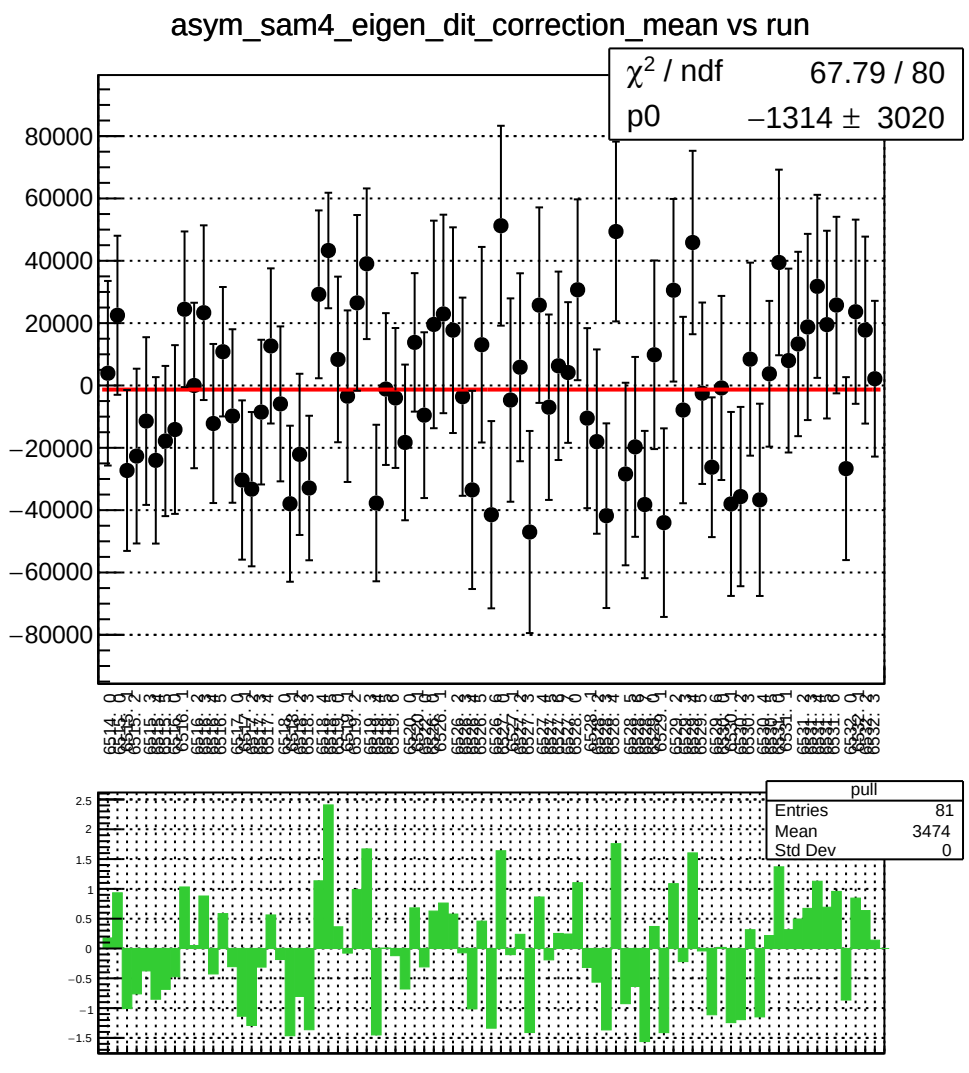

pull1D
Entries 81
Mean 0.0007111
Std Dev 0.9148

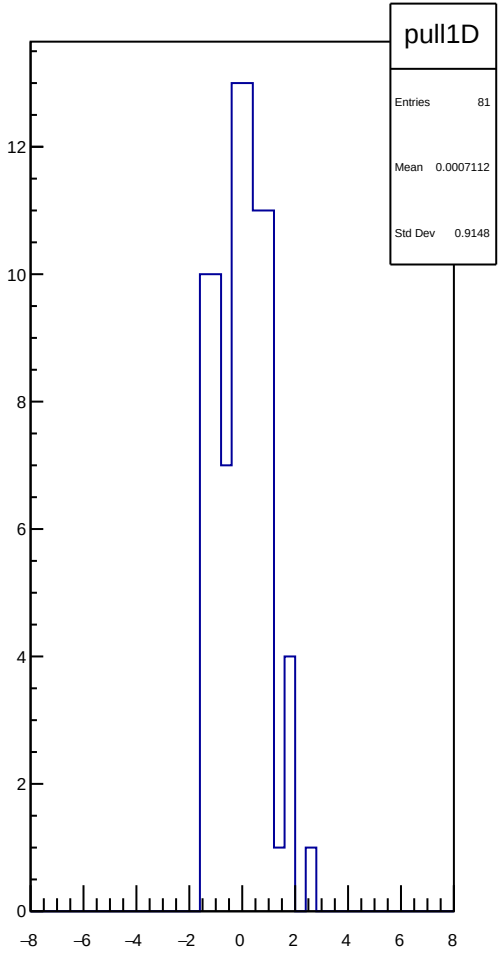

asym_sam4_dit_correction_rms vs run
χ² / ndf 1.271e+04 / 80
p0 2657 ± 2.135
3200
3000
2800
2600
2400
2200

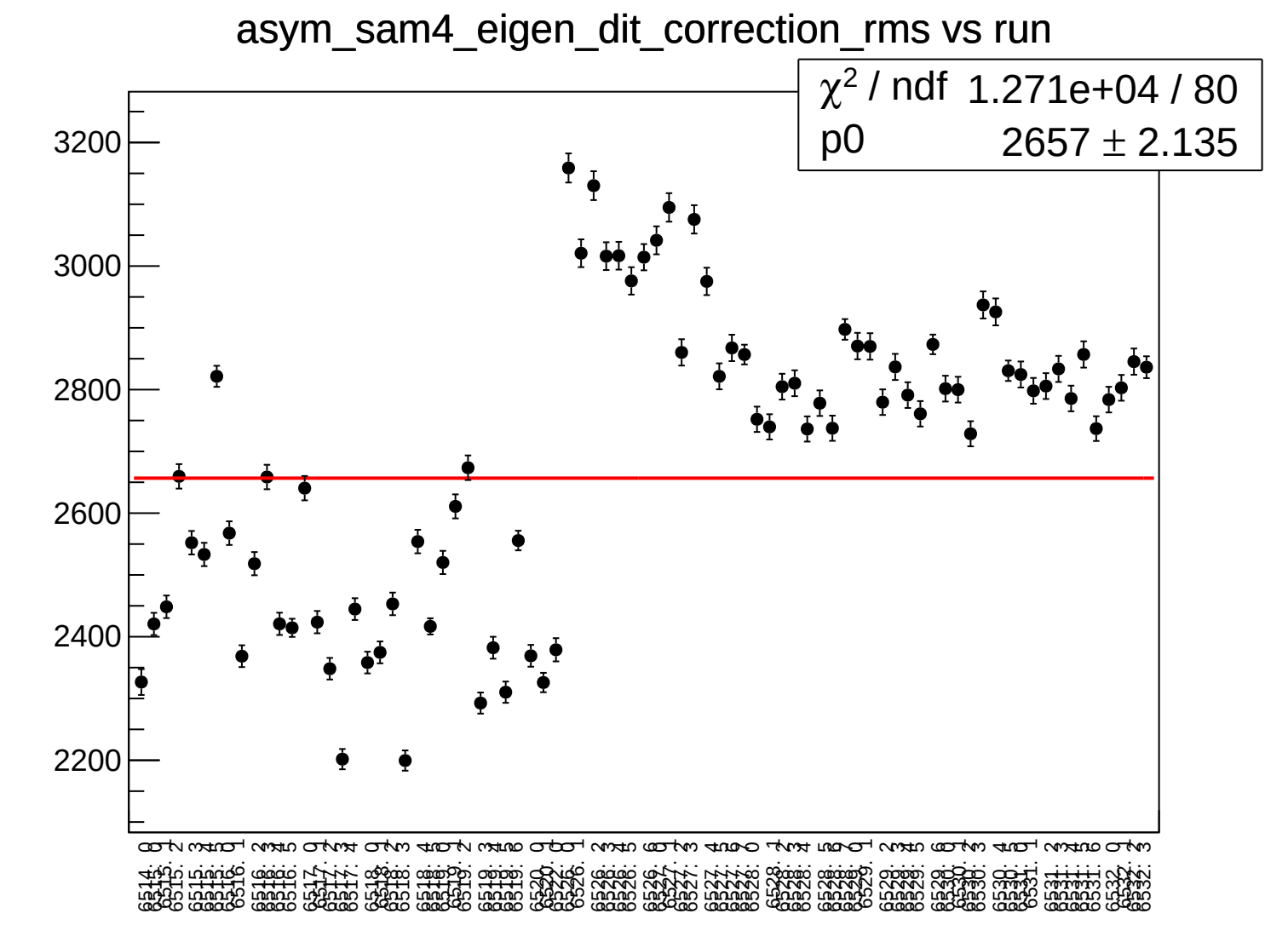

eigen_dit_asym_sam4_mean vs run
χ² / ndf 102.8 / 80
p0 660.4 ± 402.7
30000
20000
10000
0
−10000
pull
Entries 81
Mean −1.663e+04
Std Dev 0
4
3
2
1
0
−1
−2

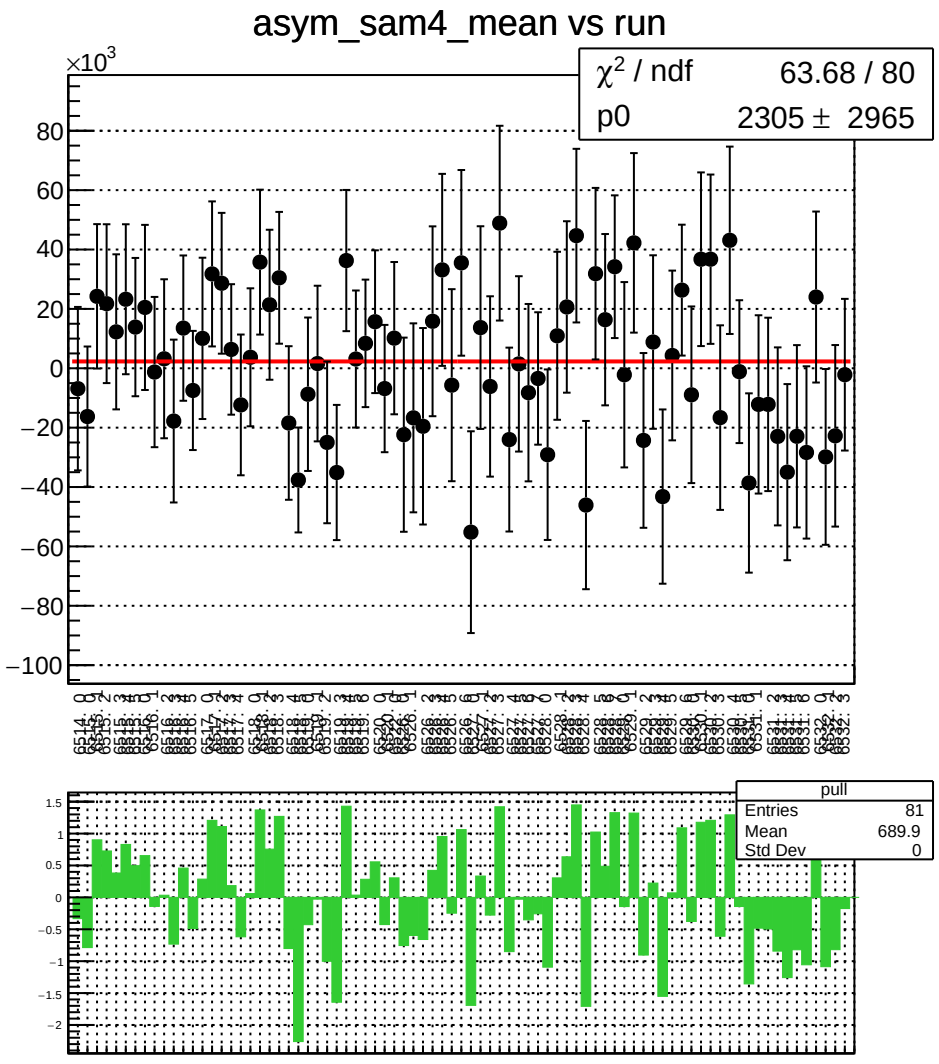

pull1D
Entries 81
Mean 0.0003535
Std Dev 1.126
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

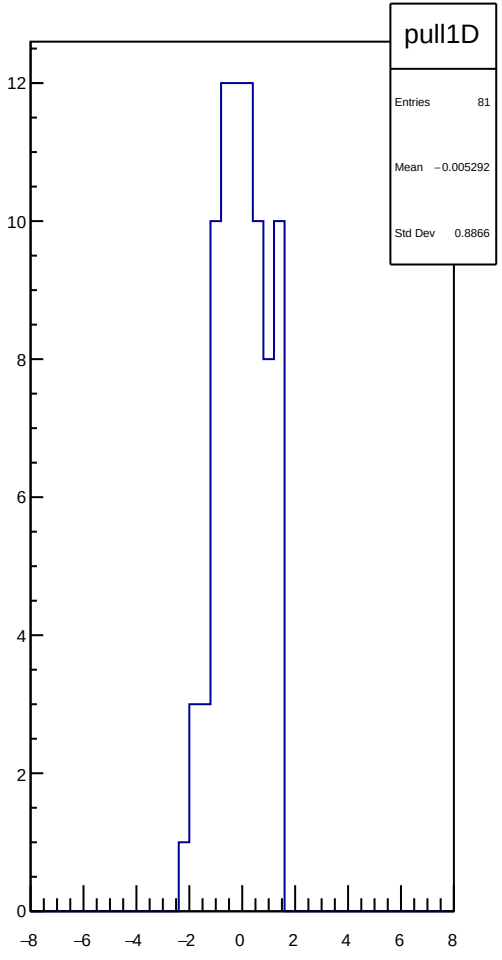

eigen_dit_asym_sam4_rms vs run
χ² / ndf 4.525e+04 / 80
p0 350.6 ± 0.2848
600
550
500
450
400
350
300
250

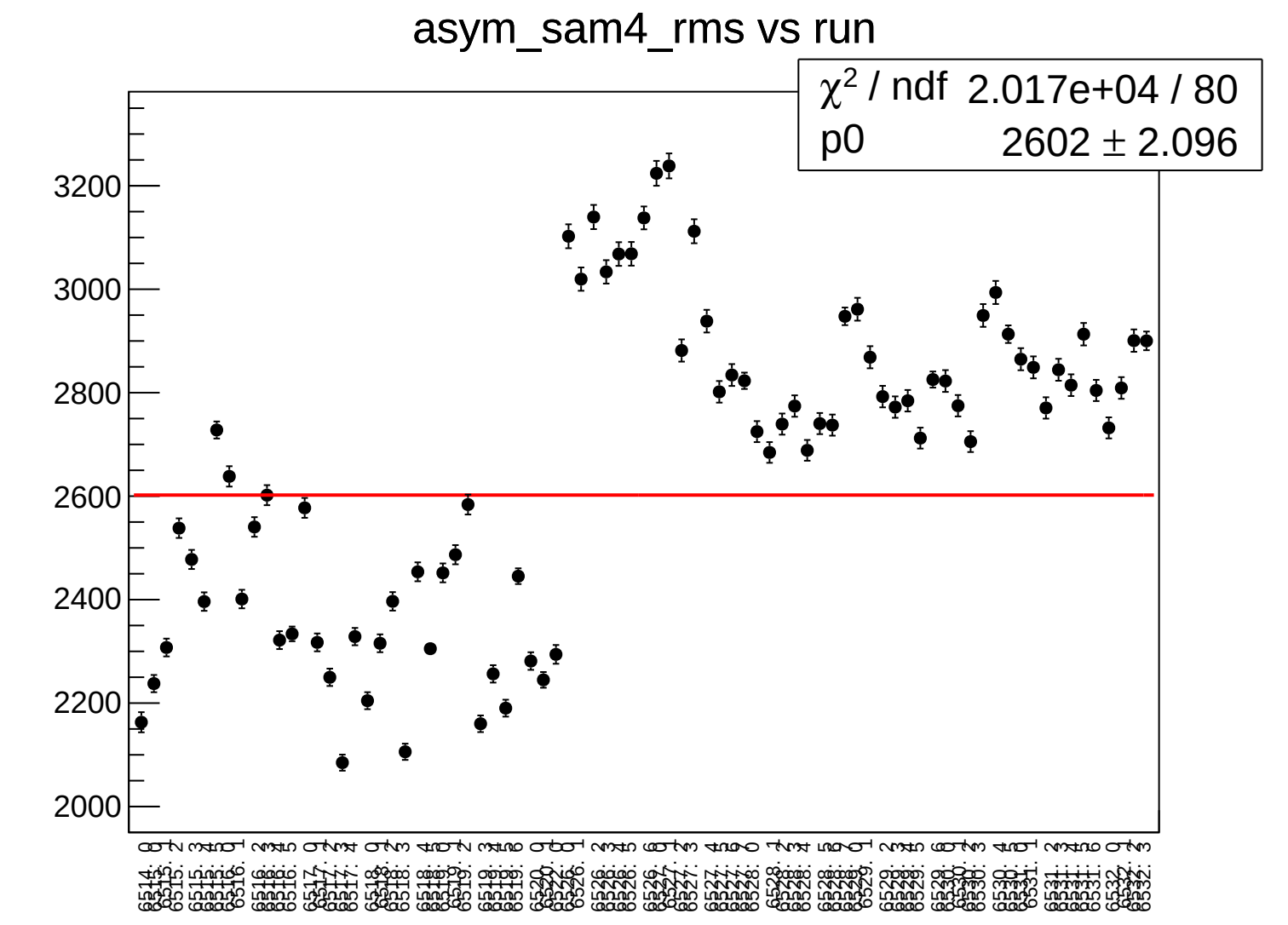

asym_sam4_eigen_dit_correction_mean vs run
χ² / ndf 67.79 / 80
p0 −1314 ± 3020
pull
Entries 81
Mean 3474
Std Dev 0

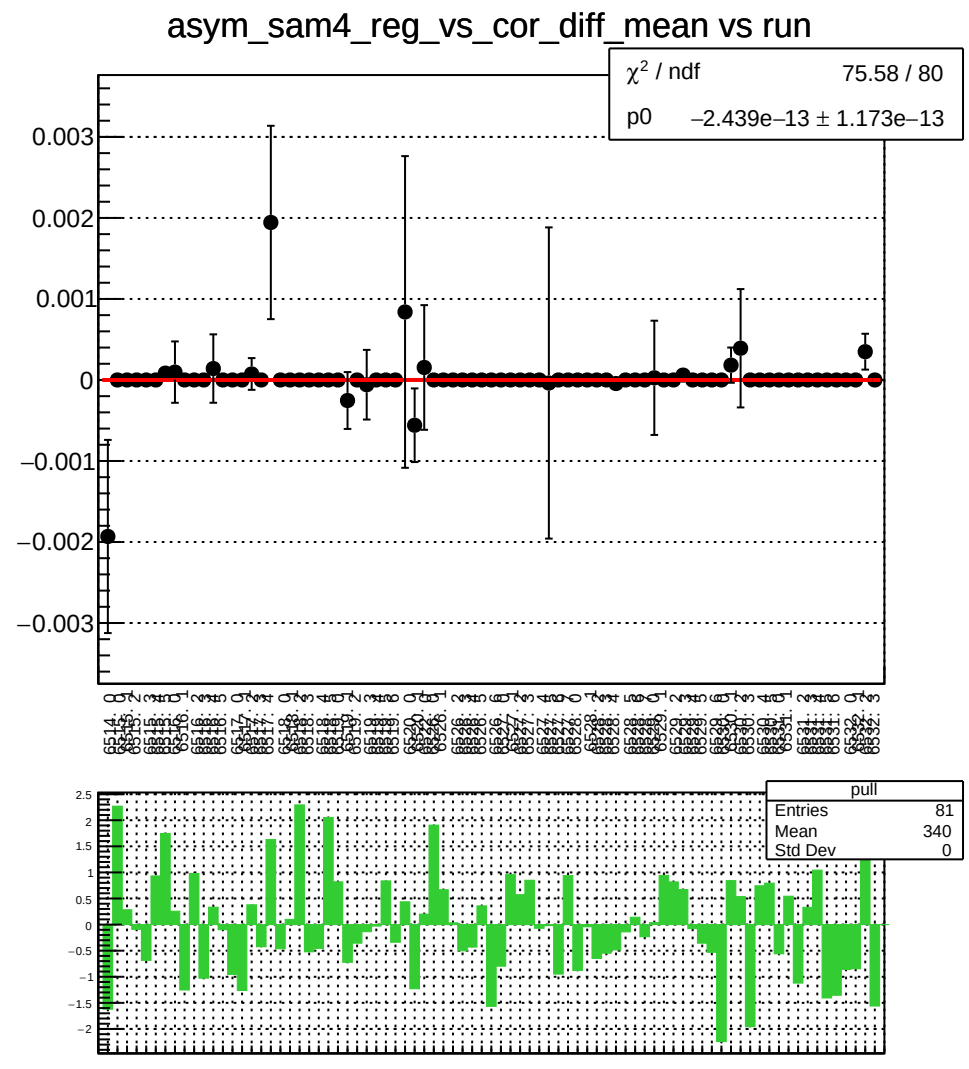

pull1D
Entries 81
Mean 0.0007112
Std Dev 0.9148

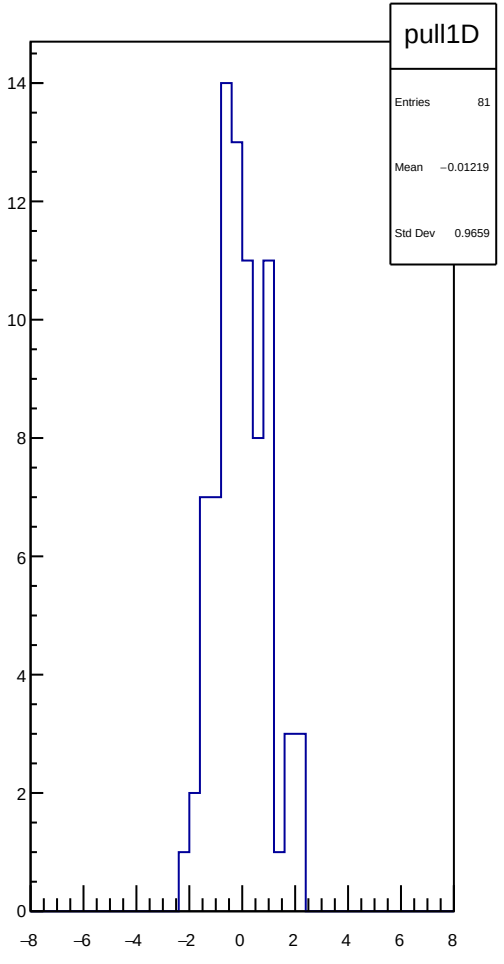

asym_sam4_eigen_dit_correction_rms vs run
χ² / ndf 1.271e+04 / 80
p0 2657 ± 2.135
3200
3000
2800
2600
2400
2200

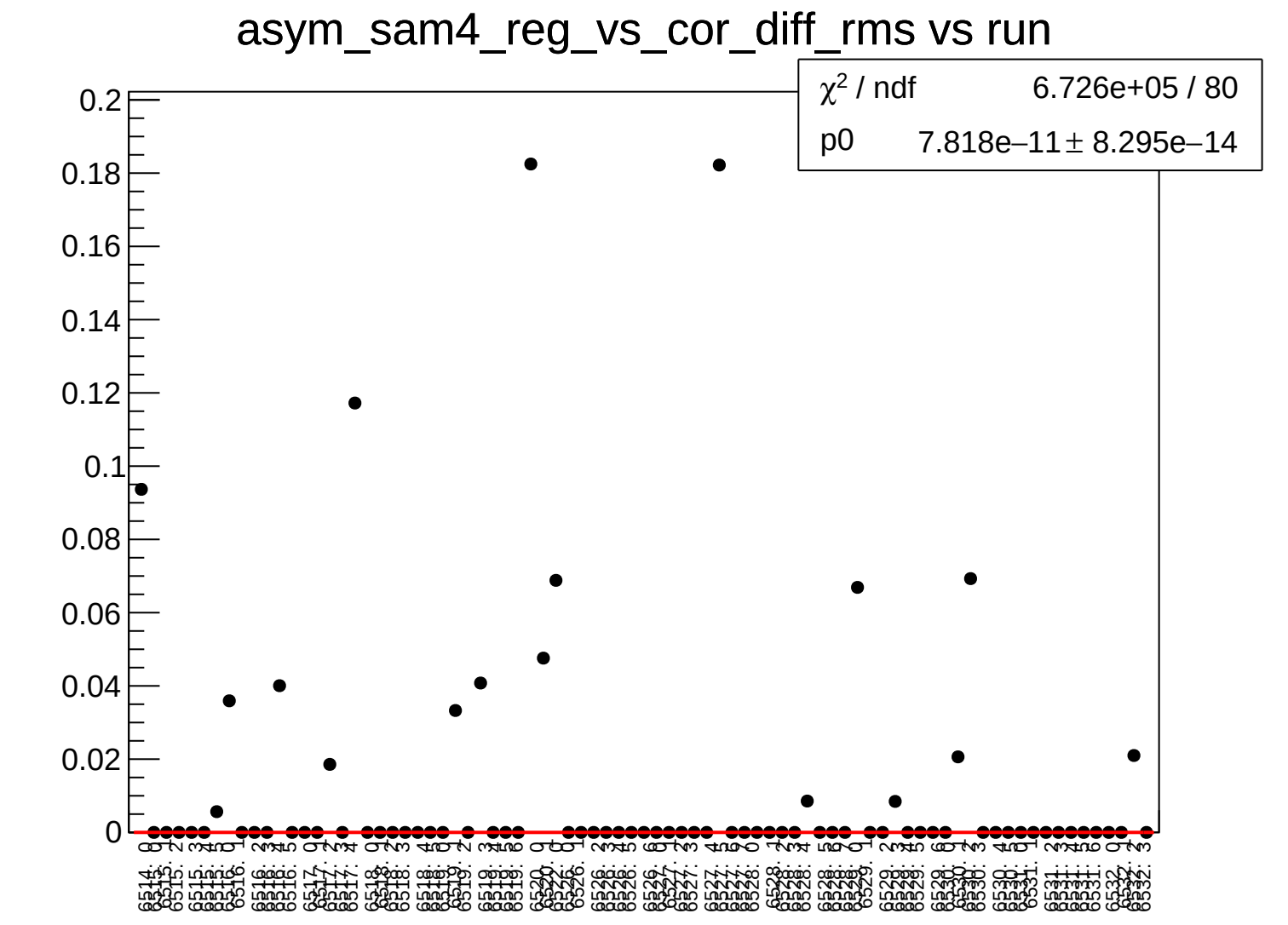

asym_sam4_mean vs run
×10^3
χ^2 / ndf 63.68 / 80
p0 2305 ± 2965
pull
Entries 81
Mean 689.9
Std Dev 0

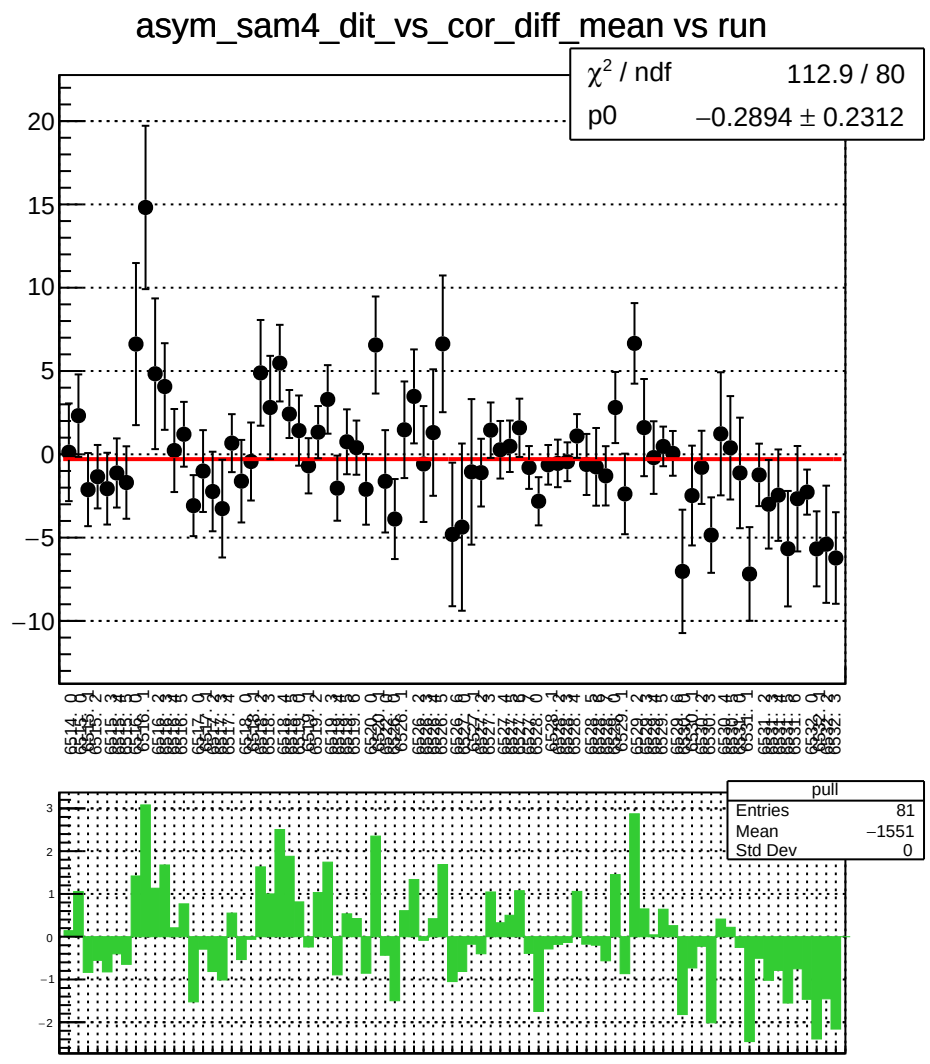

pull1D
Entries 81
Mean −0.005292
Std Dev 0.8866

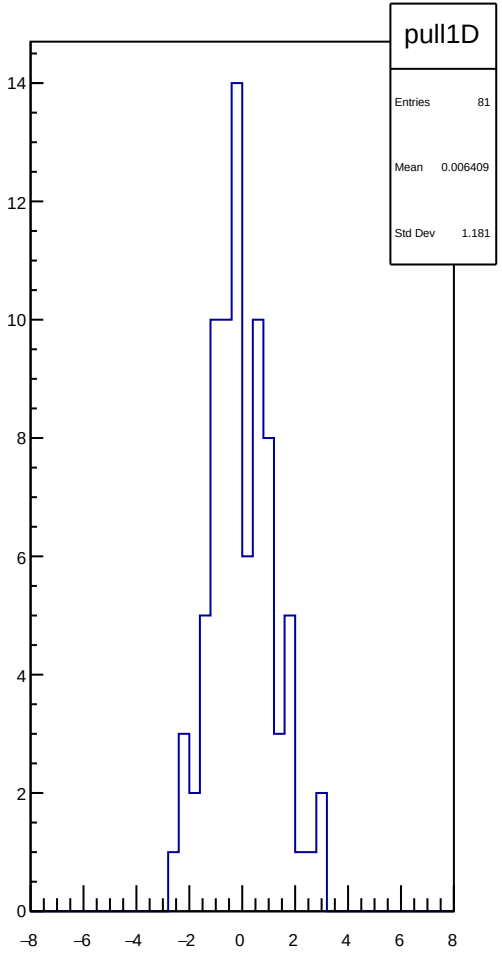

asym_sam4_rms vs run
χ² / ndf 2.017e+04 / 80
p0 2602 ± 2.096
3200
3000
2800
2600
2400
2200
2000

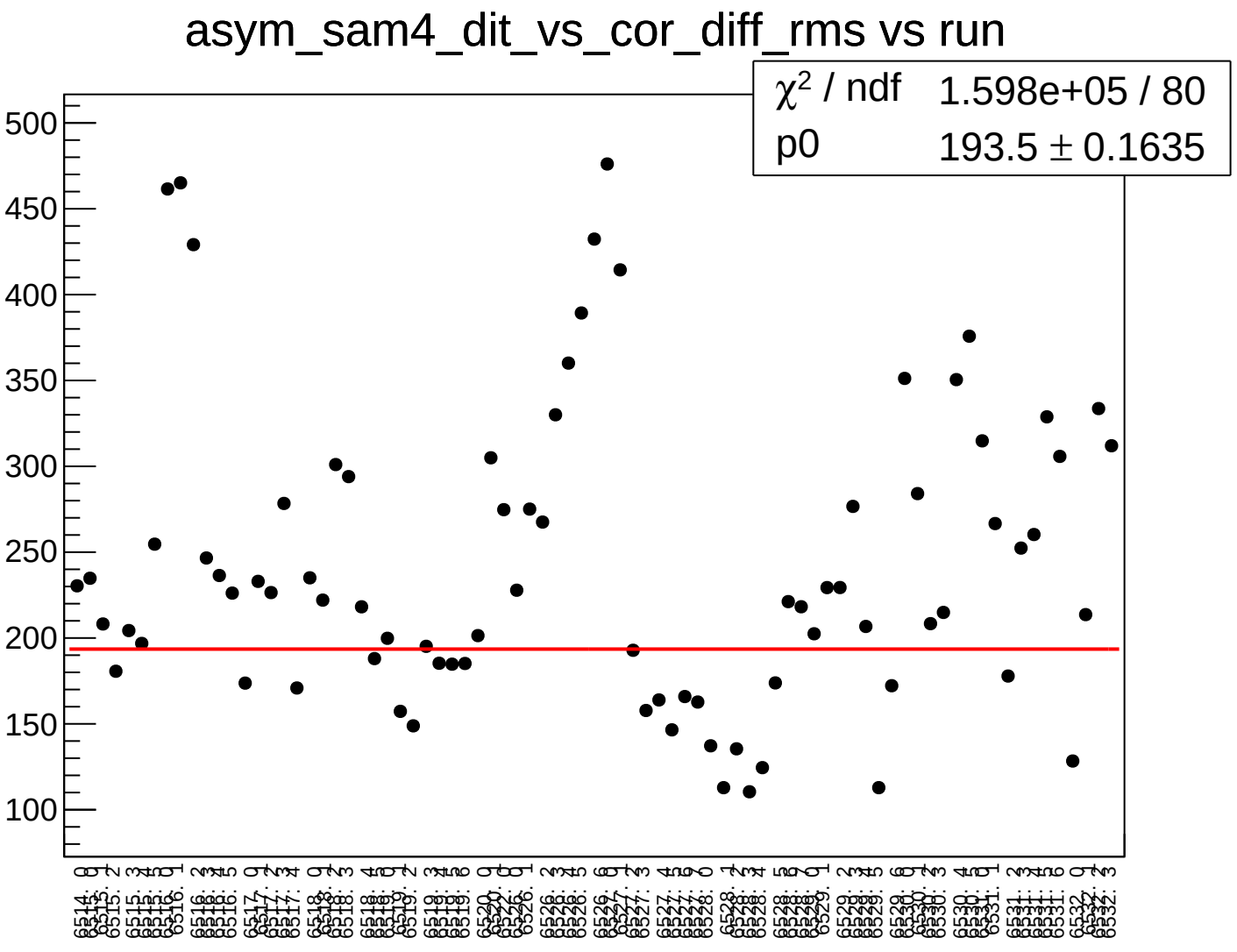

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 75.58 / 80
p0 −2.439e−13 ± 1.173e−13
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 81
Mean 340
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

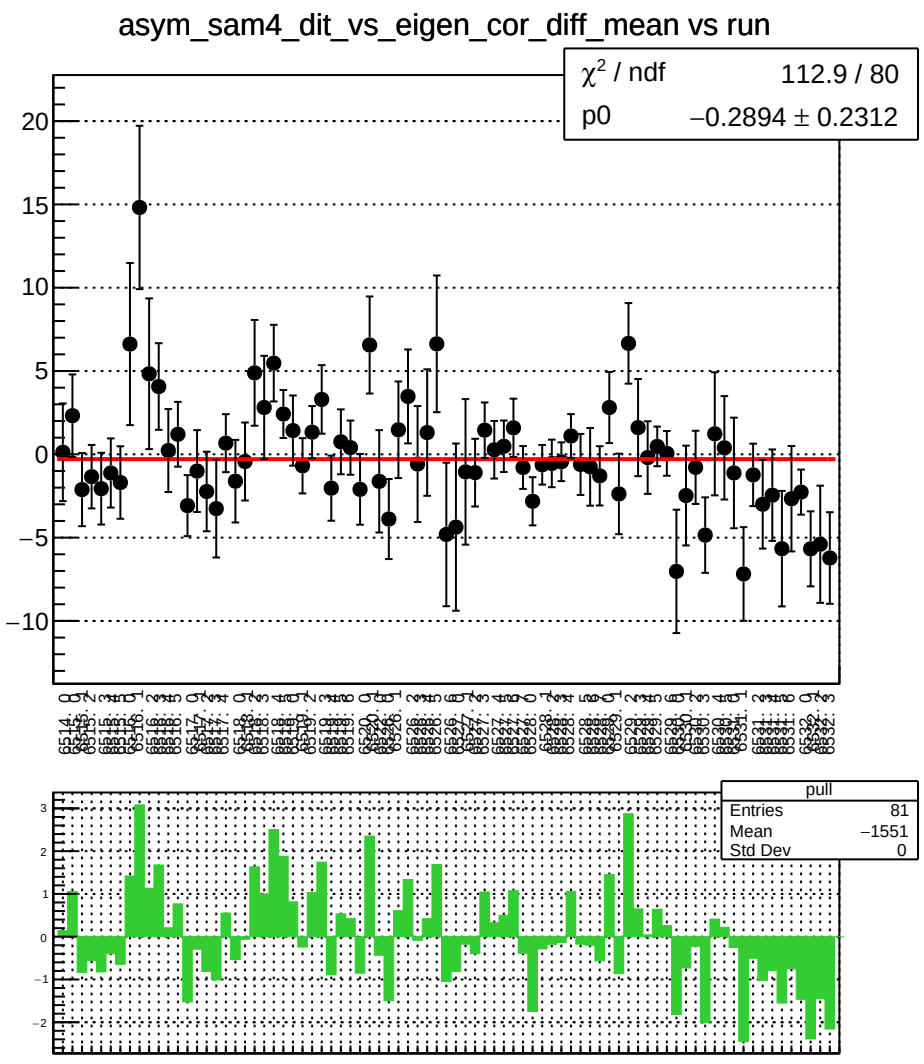

pull1D
Entries 81
Mean −0.01219
Std Dev 0.9659
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

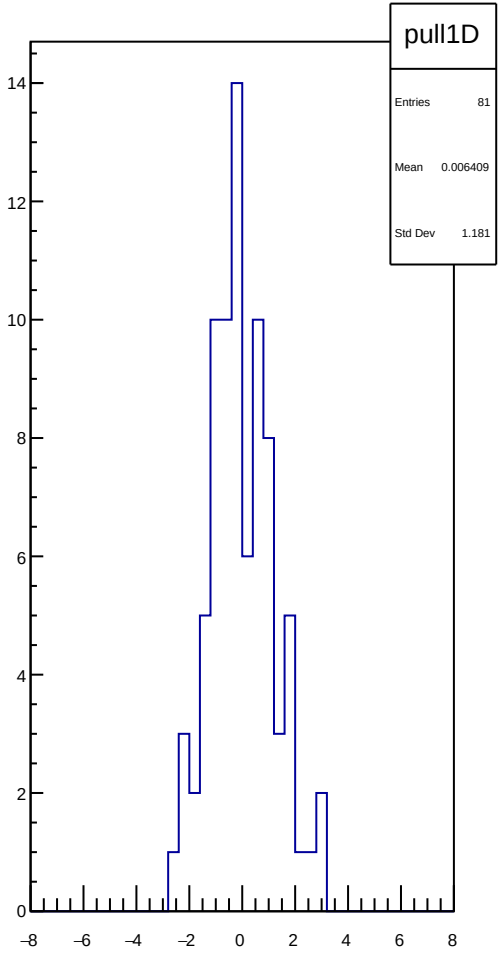

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 6.726e+05 / 80
p0 7.818e−11 ± 8.295e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

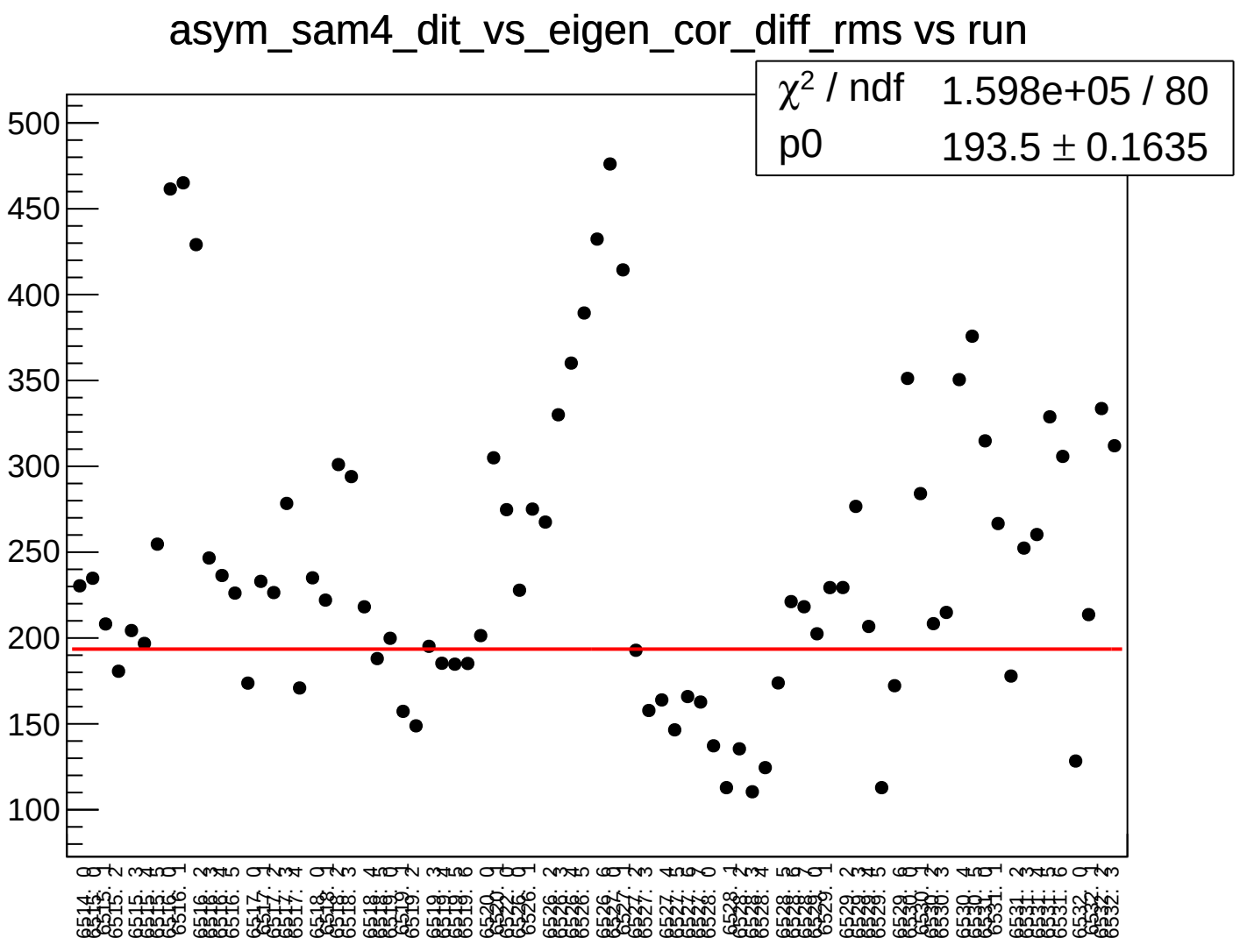

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 112.9 / 80
p0 −0.2894 ± 0.2312
pull
Entries 81
Mean −1551
Std Dev 0

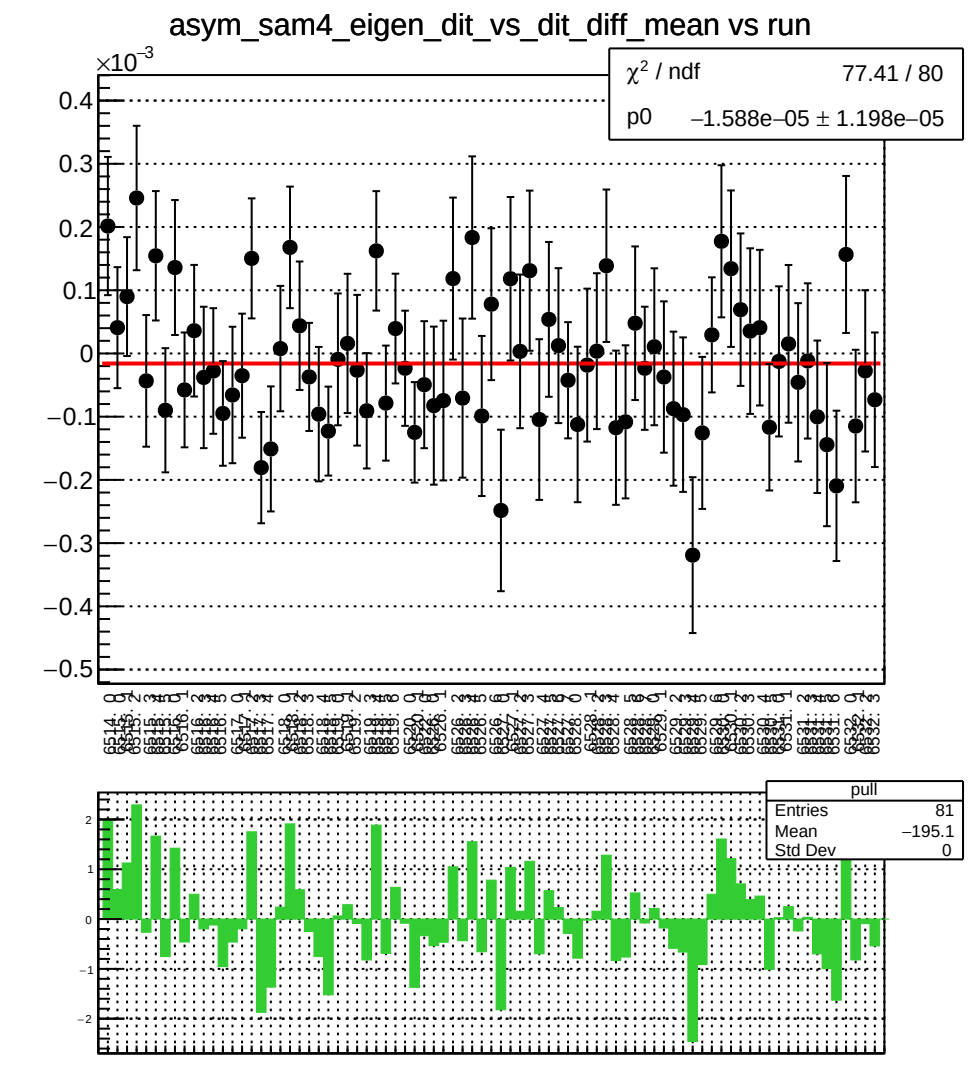

pull1D
Entries 81
Mean 0.006409
Std Dev 1.181

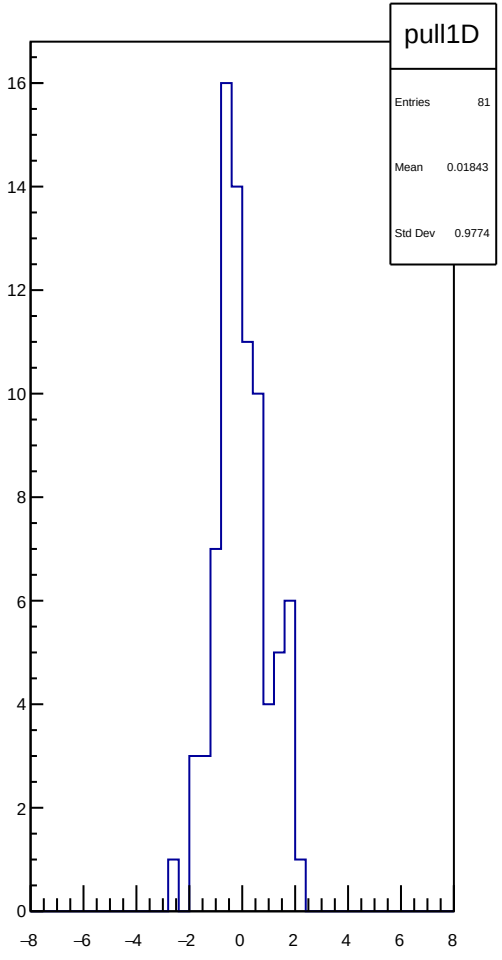

asym_sam4_dit_vs_cor_diff_rms vs run
χ² / ndf 1.598e+05 / 80
p0 193.5 ± 0.1635
500
450
400
350
300
250
200
150
100

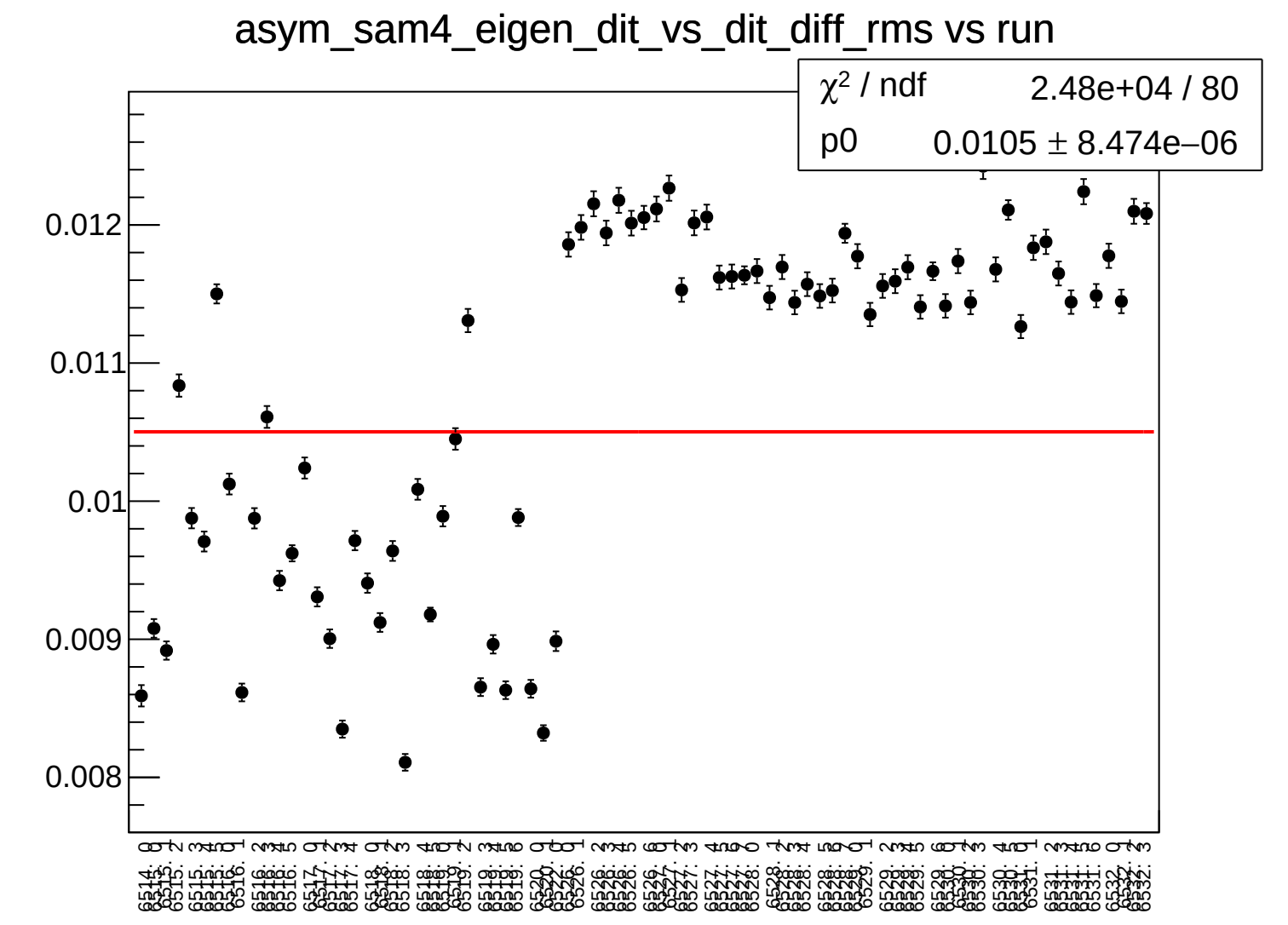

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.9 / 80
p0 −0.2894 ± 0.2312
pull
Entries 81
Mean −1551
Std Dev 0

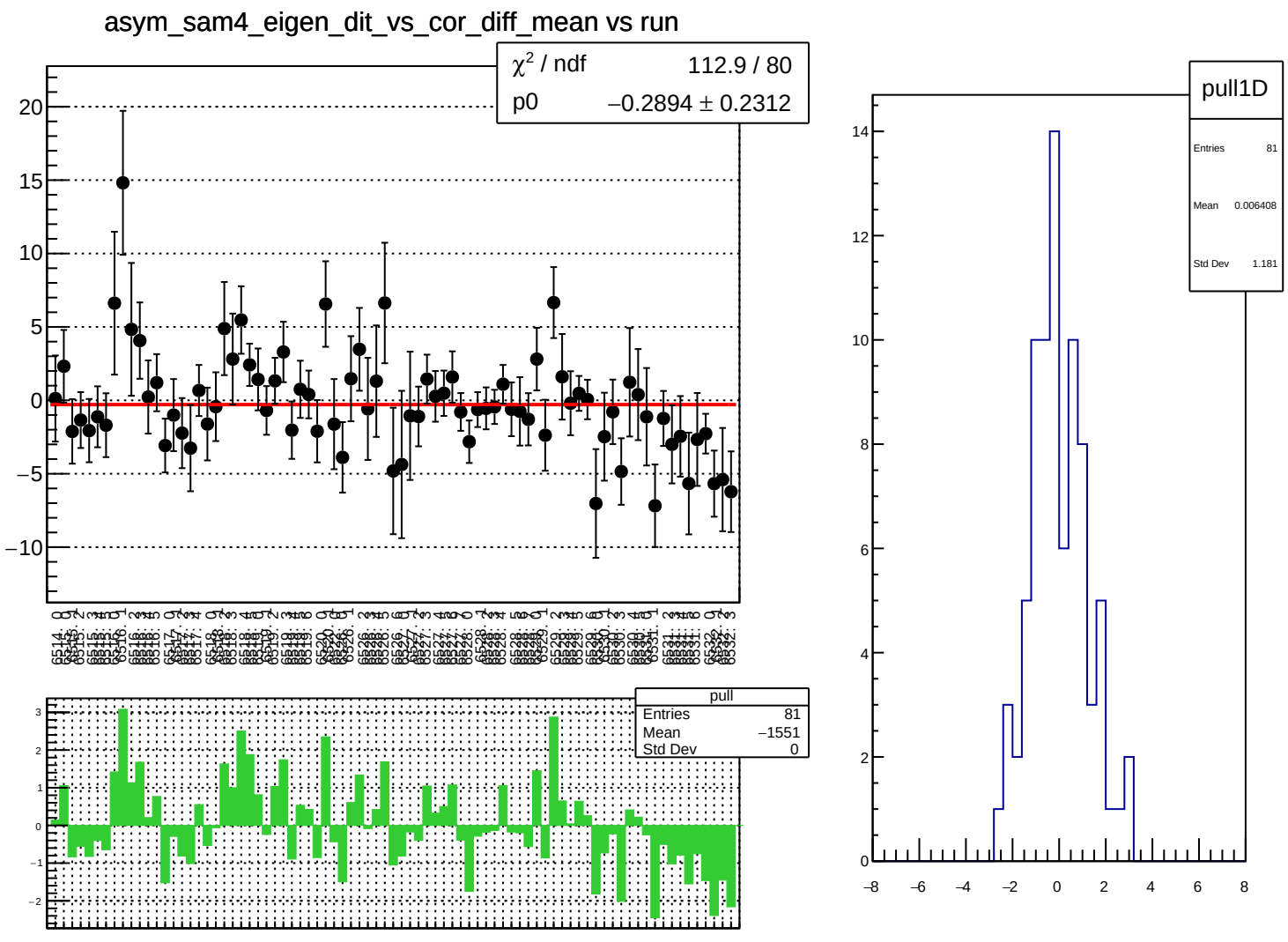

pull1D
Entries 81
Mean 0.006409
Std Dev 1.181

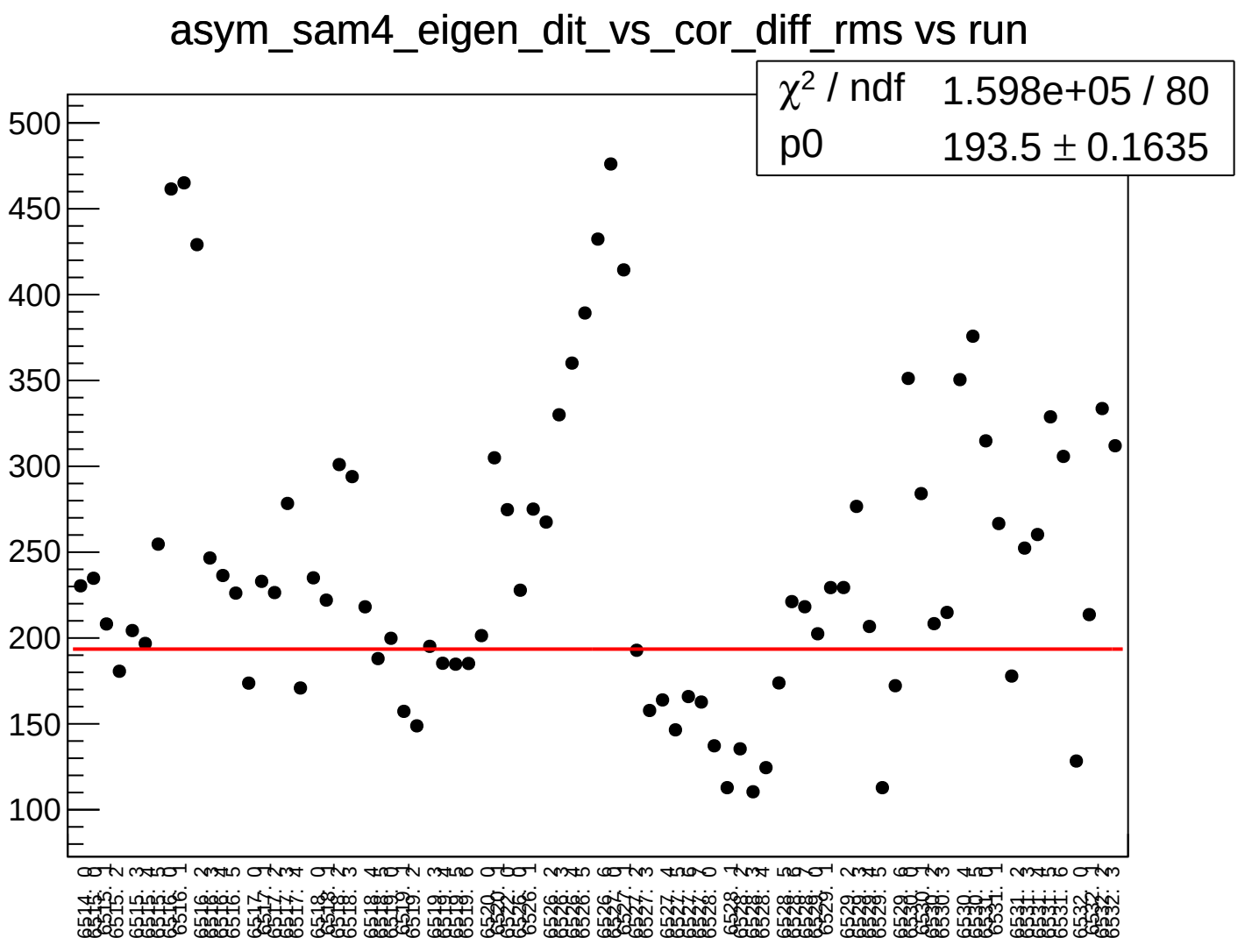

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.598e+05 / 80
p0 193.5 ± 0.1635
500
450
400
350
300
250
200
150
100

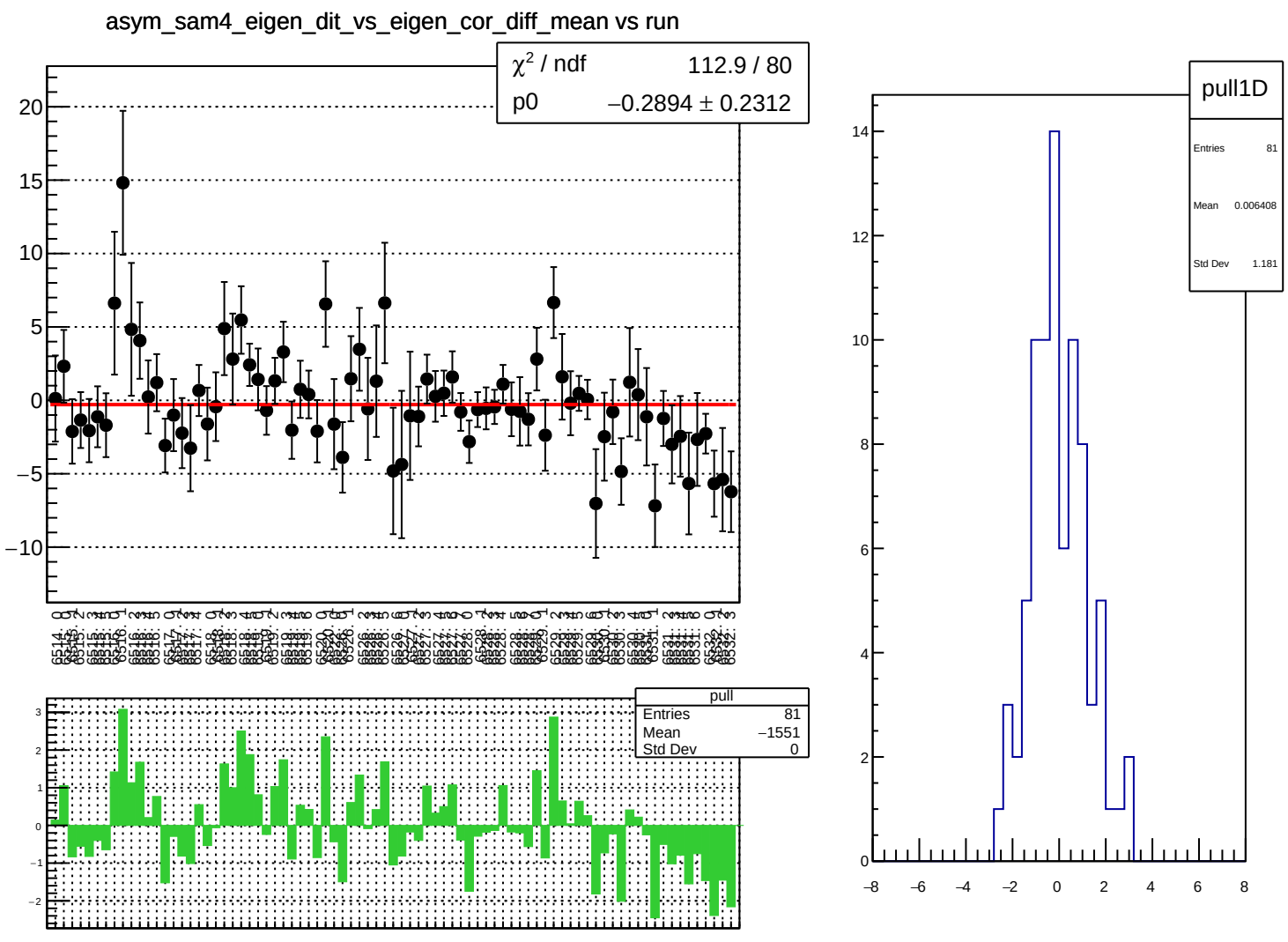

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.41 / 80
p0 −1.588e−05 ± 1.198e−05
pull
Entries 81
Mean −195.1
Std Dev 0

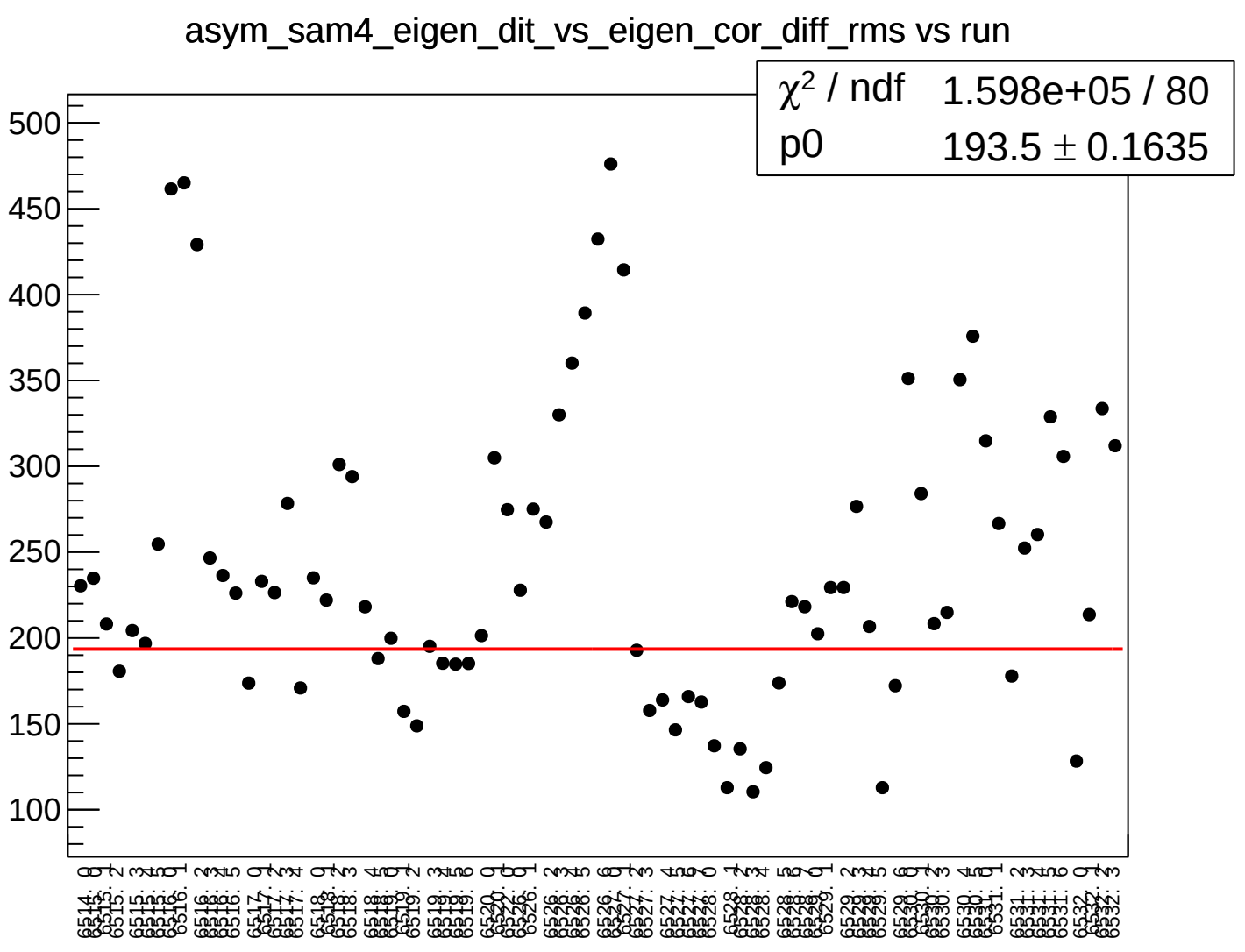

pull1D
Entries 81
Mean 0.01843
Std Dev 0.9774

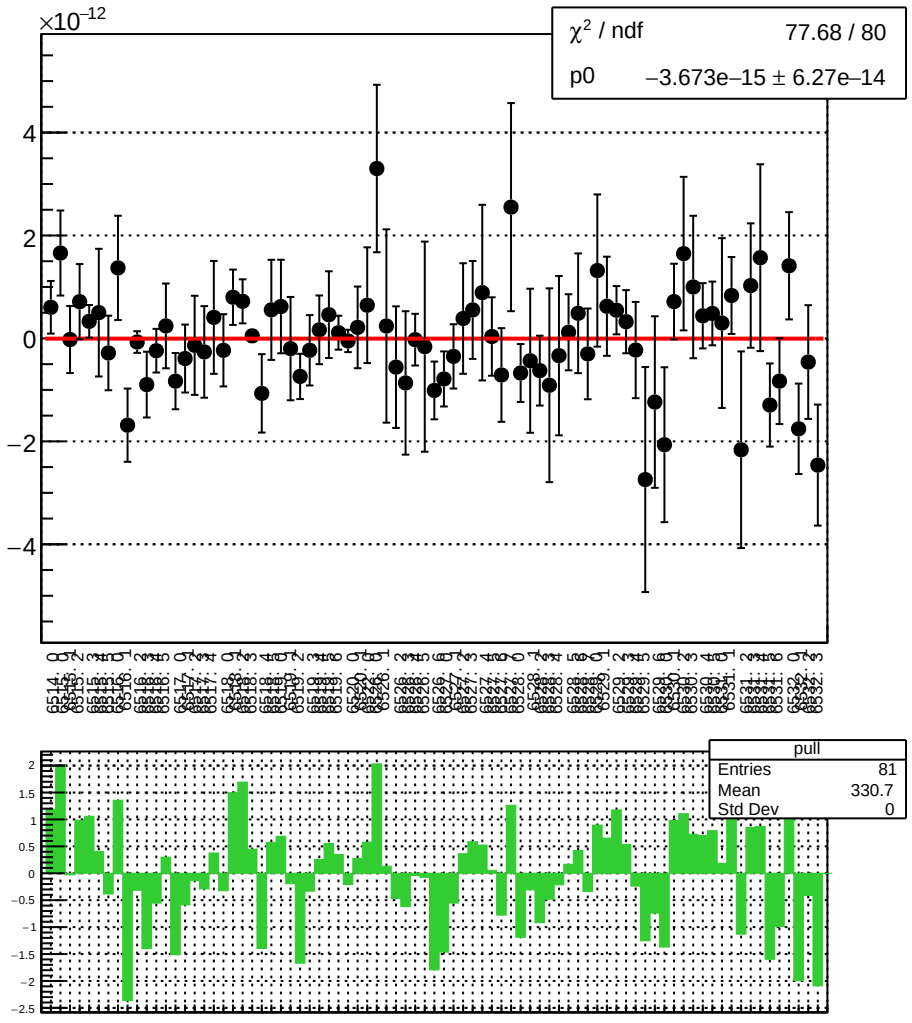

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.48e+04 / 80
p0 0.0105 ± 8.474e−06
0.012
0.011
0.01
0.009
0.008

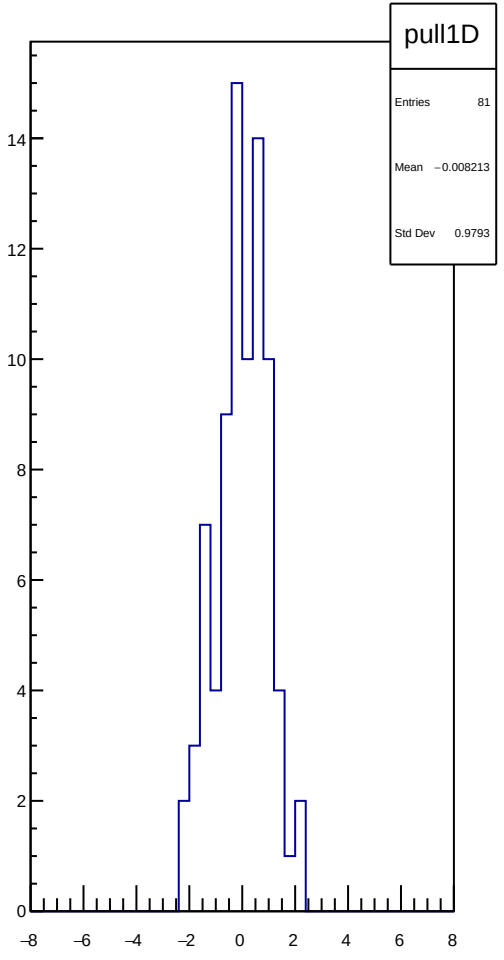

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 112.9 / 80
p0 −0.2894 ± 0.2312
pull
Entries 81
Mean −1551
Std Dev 0
pull1D
Entries 81
Mean 0.006408
Std Dev 1.181

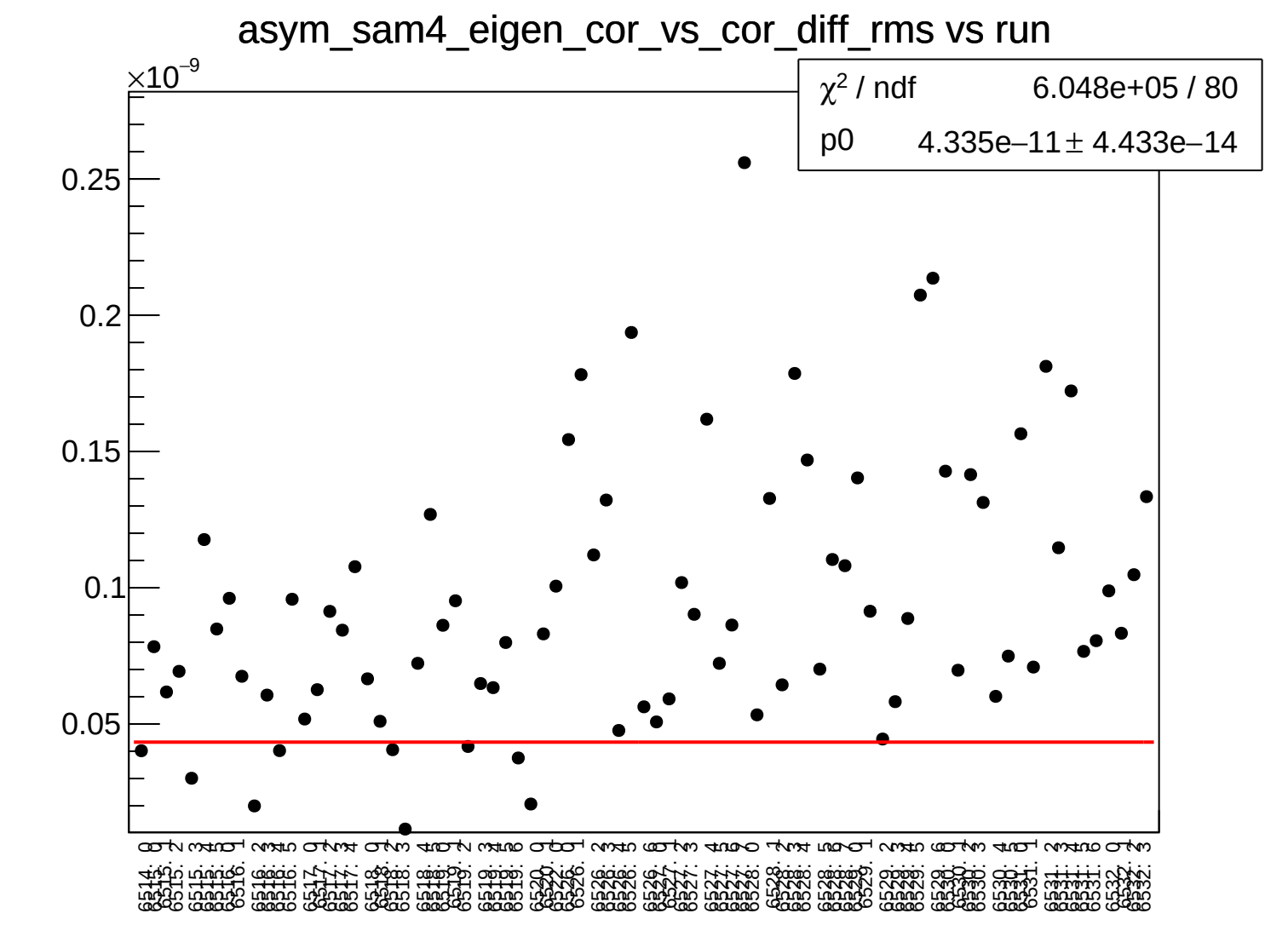

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.598e+05 / 80
p0 193.5 ± 0.1635
500
450
400
350
300
250
200
150
100

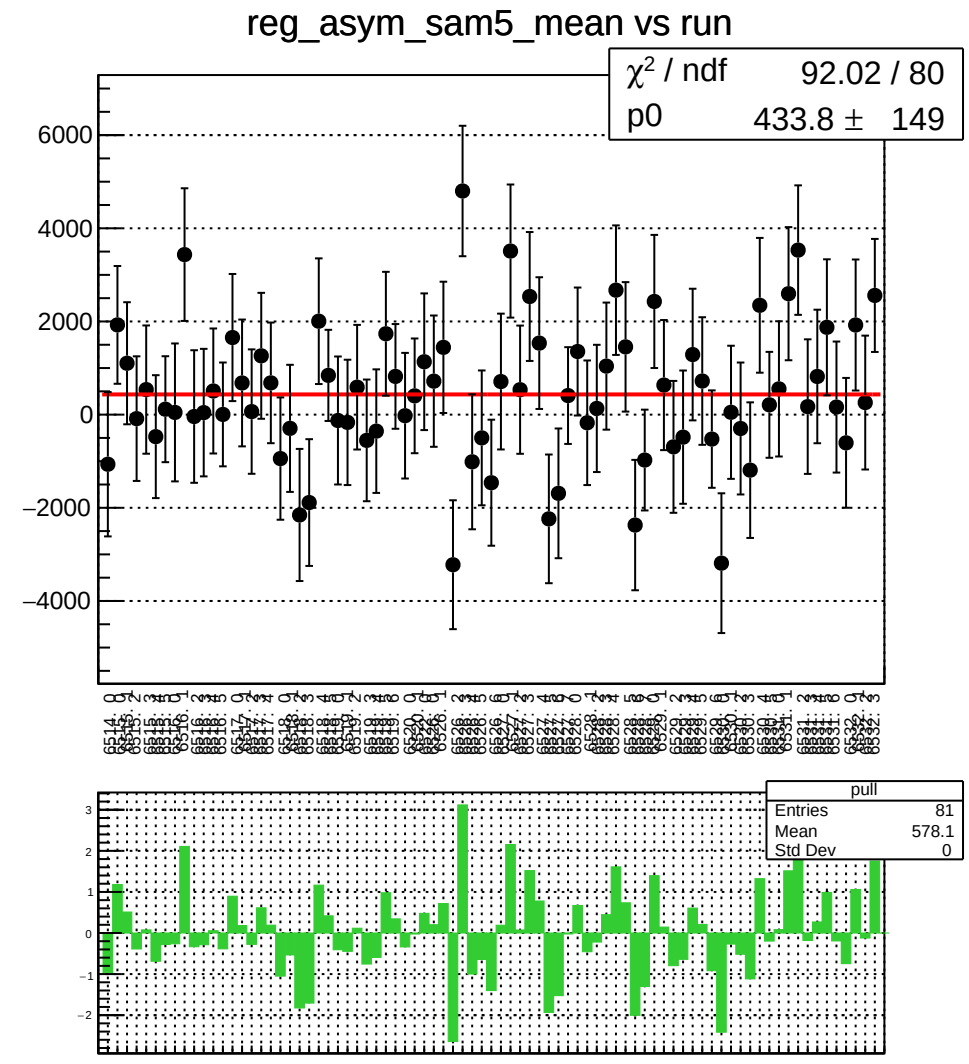

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.9 / 80
p0 −0.2894 ± 0.2312
pull
Entries 81
Mean −1551
Std Dev 0
pull1D
Entries 81
Mean 0.006408
Std Dev 1.181

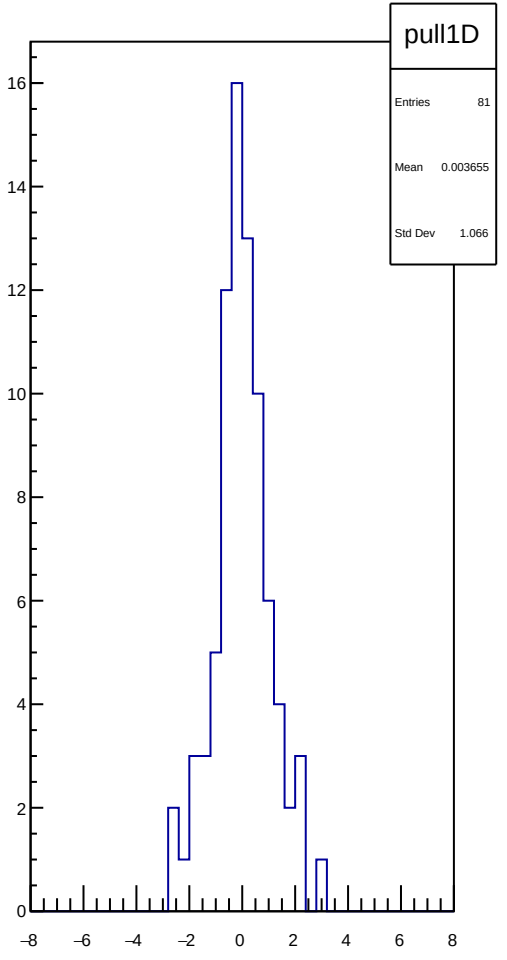

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.598e+05 / 80
p0 193.5 ± 0.1635
500
450
400
350
300
250
200
150
100

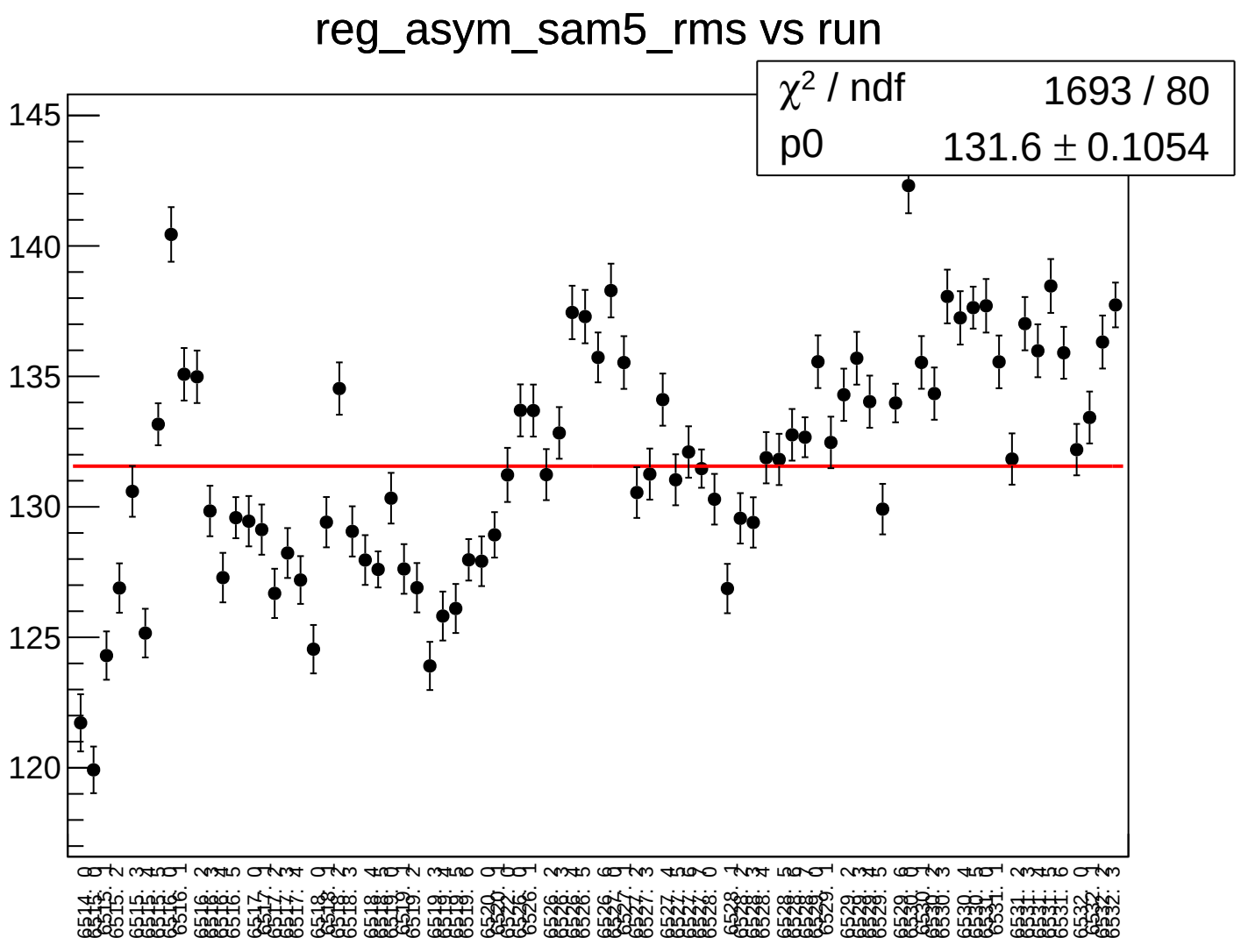

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.68 / 80
p0 −3.673e−15 ± 6.27e−14
pull
Entries 81
Mean 330.7
Std Dev 0

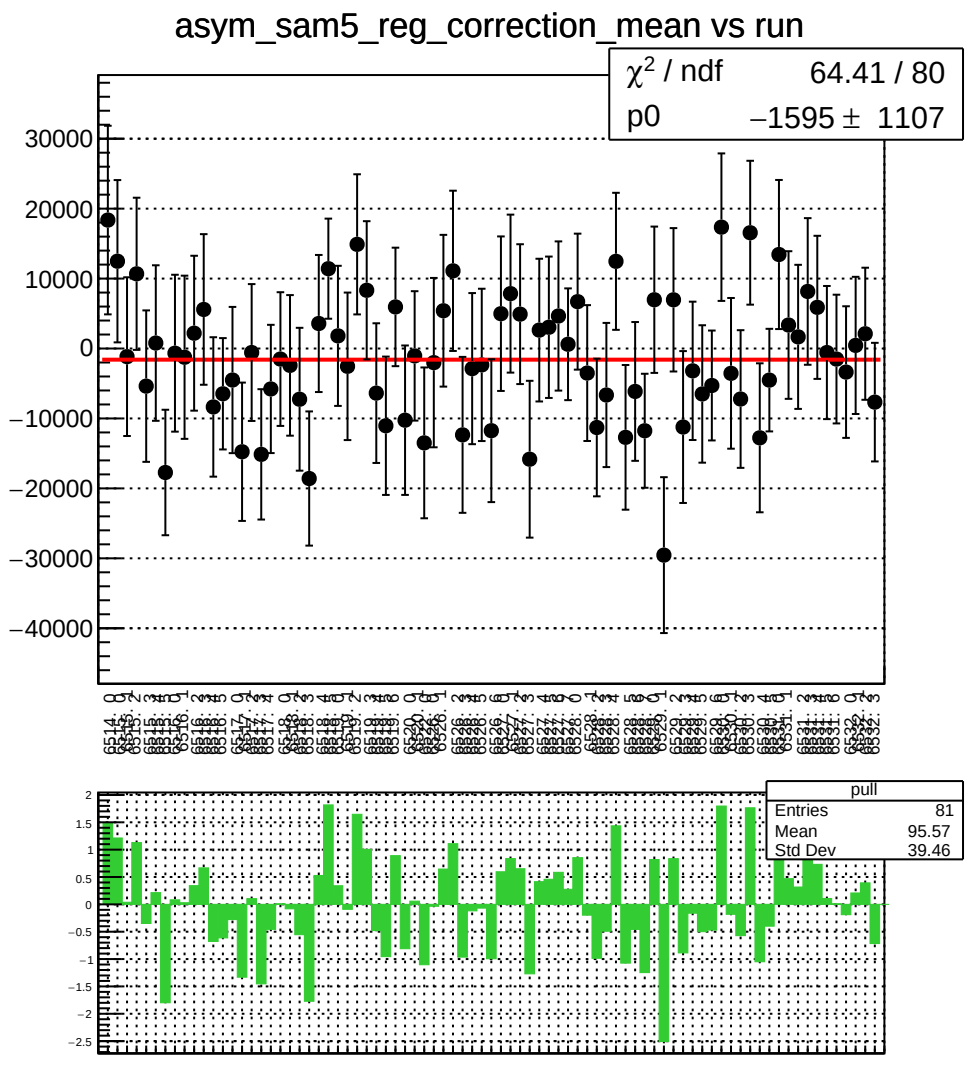

pull1D
Entries 81
Mean −0.008213
Std Dev 0.9793

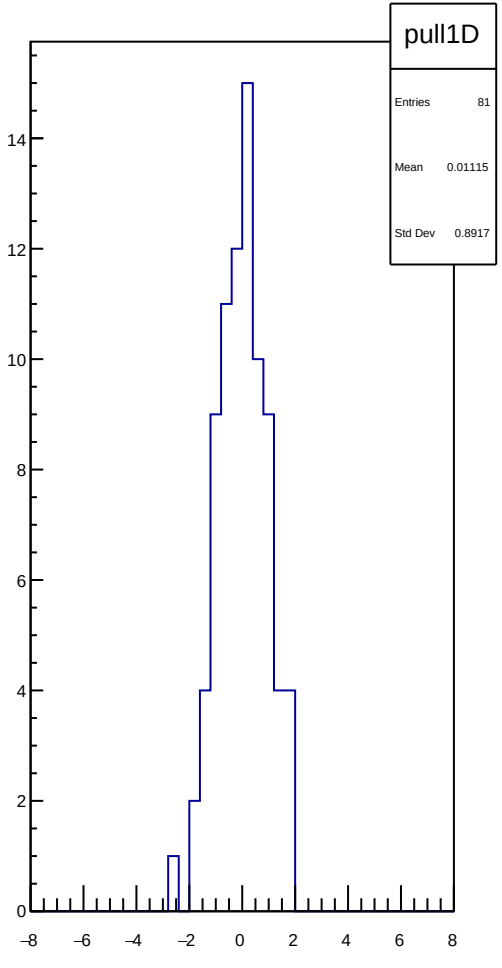

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.048e+05 / 80
p0 4.335e−11 ± 4.433e−14
0.25
0.2
0.15
0.1
0.05

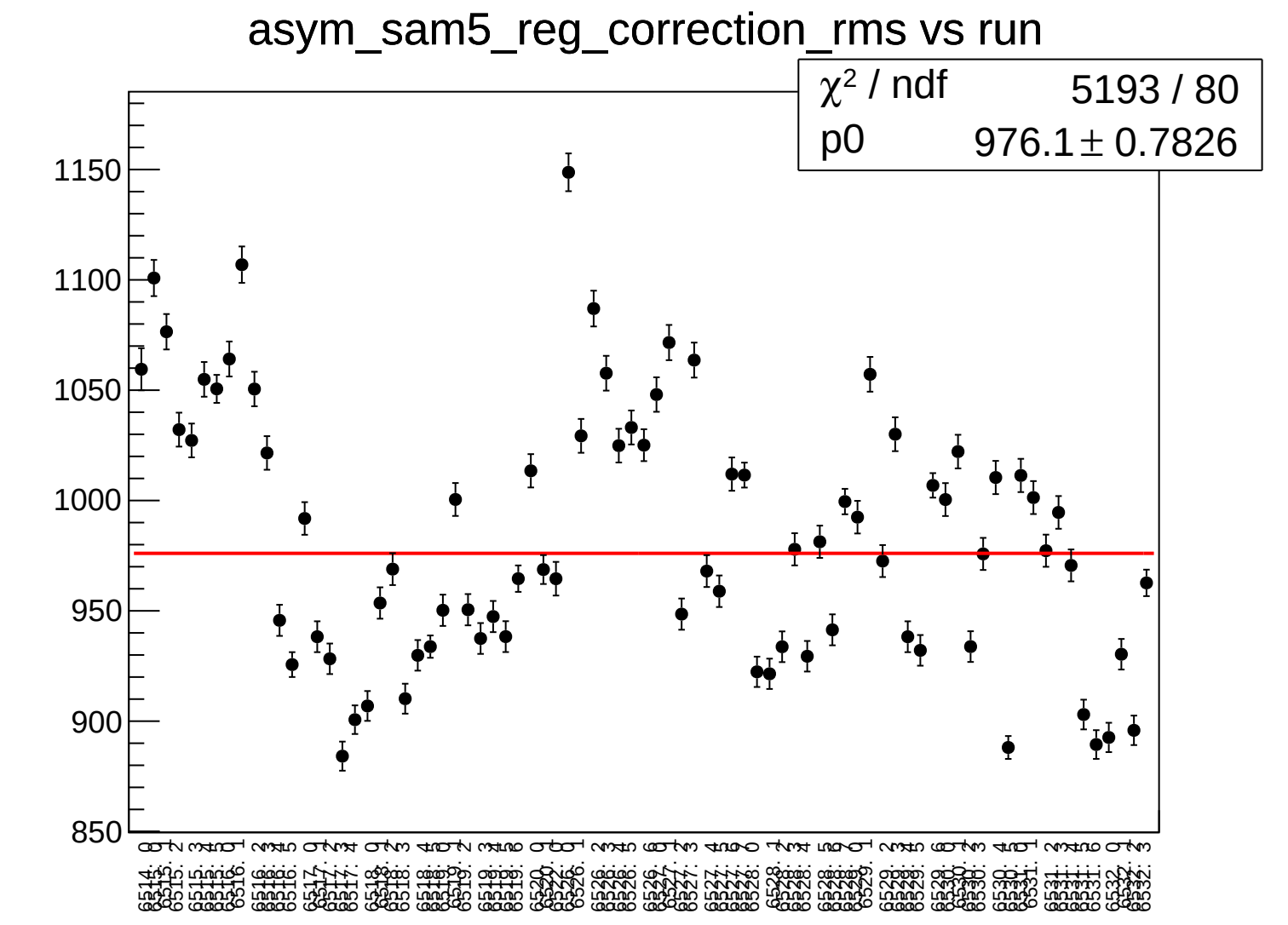

reg_asym_sam5_mean vs run
χ² / ndf 92.02 / 80
p0 433.8 ± 149
6000
4000
2000
0
−2000
−4000
pull
Entries 81
Mean 578.1
Std Dev 0
3
2
1
0
−1
−2

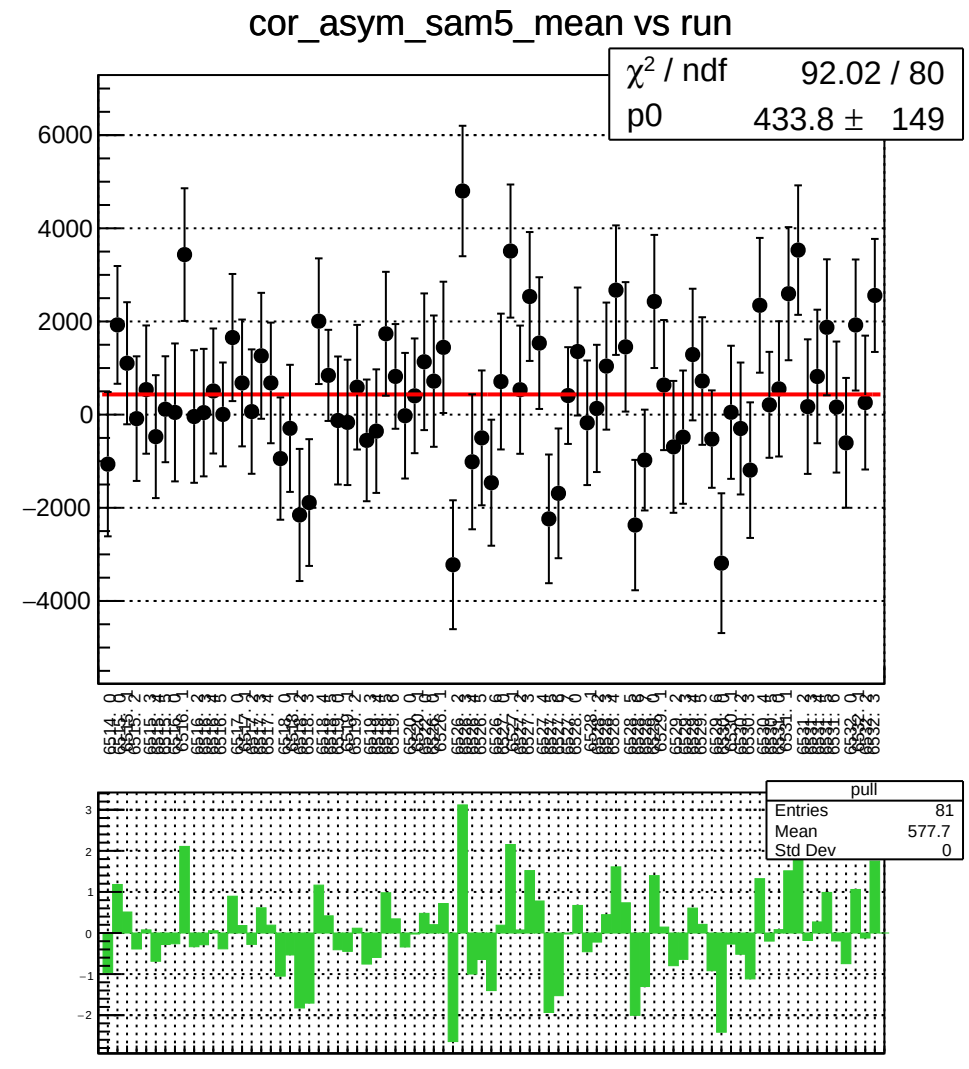

pull1D
Entries 81
Mean 0.003655
Std Dev 1.066
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

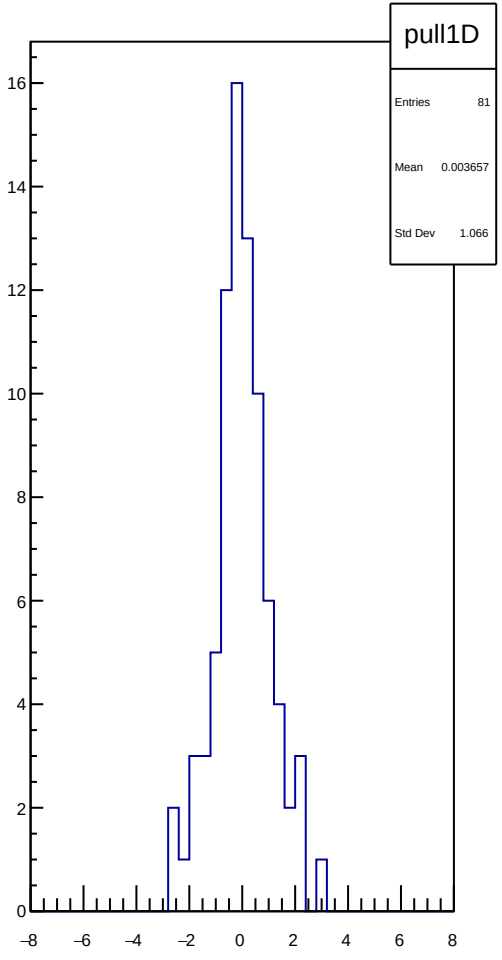

reg_asym_sam5_rms vs run
χ² / ndf 1693 / 80
p0 131.6 ± 0.1054
145
140
135
130
125
120

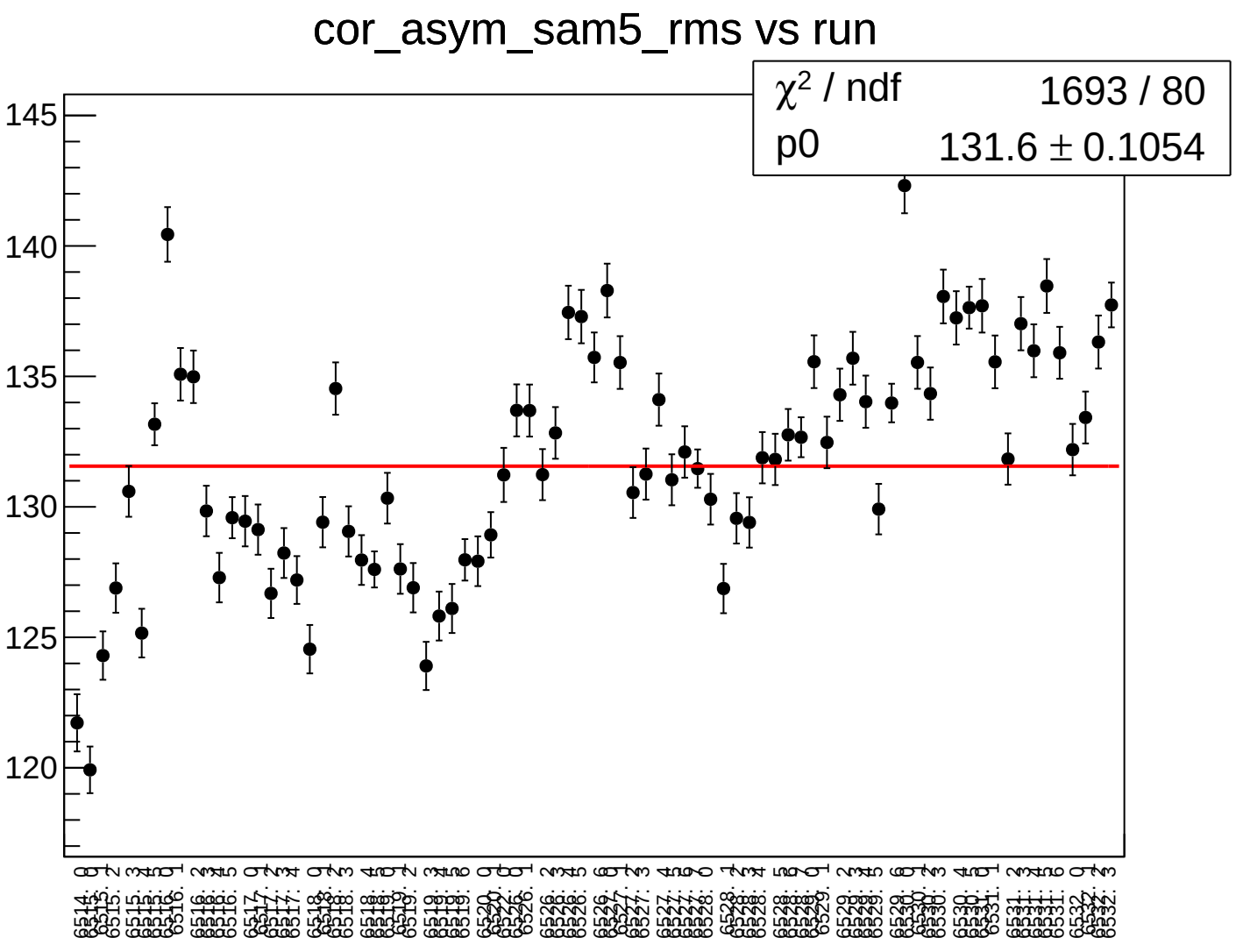

asym_sam5_reg_correction_mean vs run
χ² / ndf 64.41 / 80
p0 −1595 ± 1107
pull
Entries 81
Mean 95.57
Std Dev 39.46

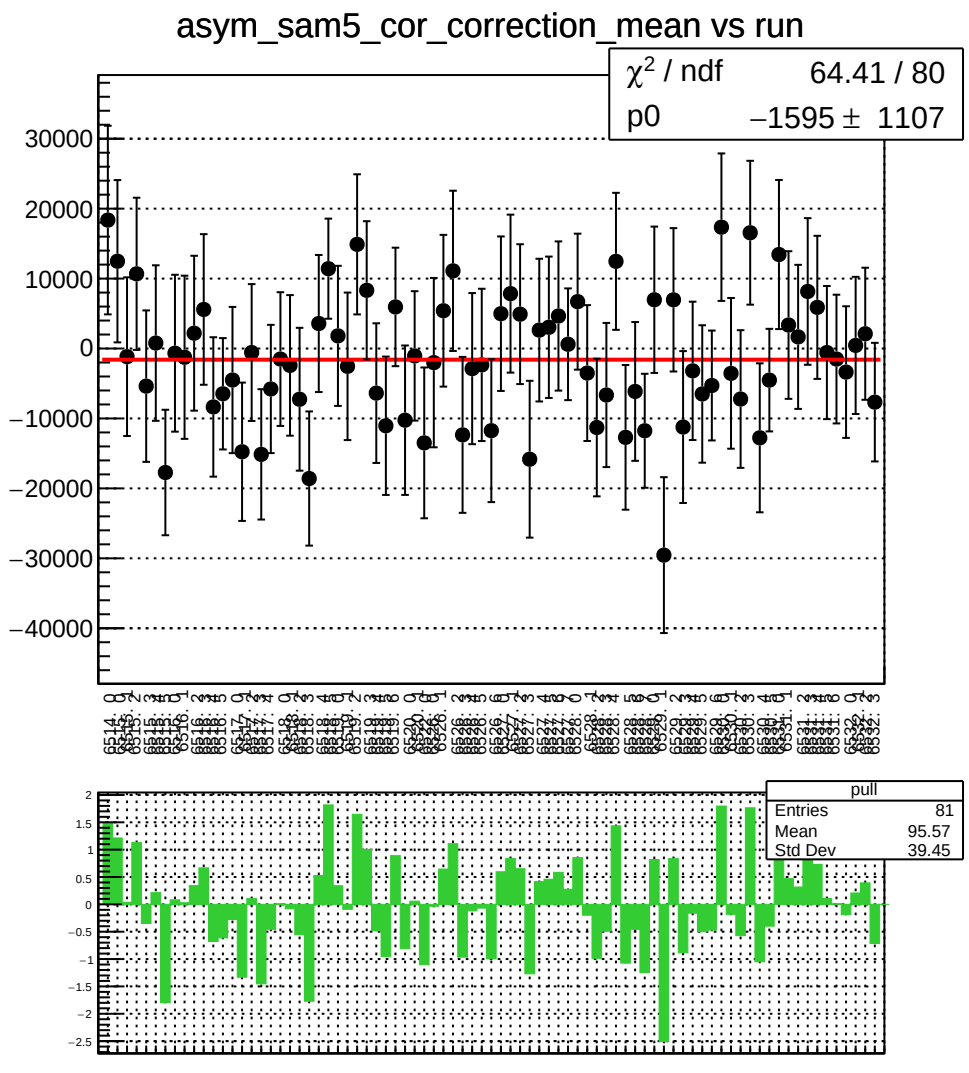

pull1D
Entries 81
Mean 0.01115
Std Dev 0.8917

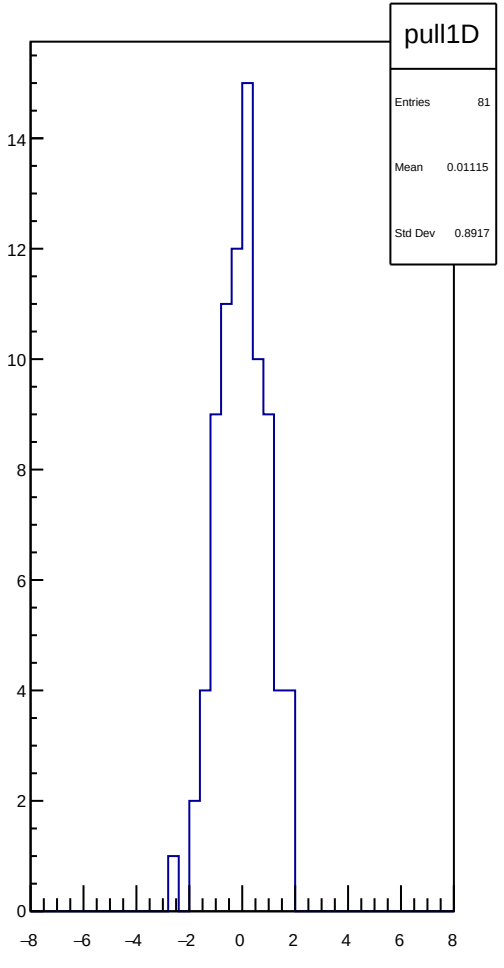

asym_sam5_reg_correction_rms vs run
χ² / ndf 5193 / 80
p0 976.1 ± 0.7826
1150
1100
1050
1000
950
900
850

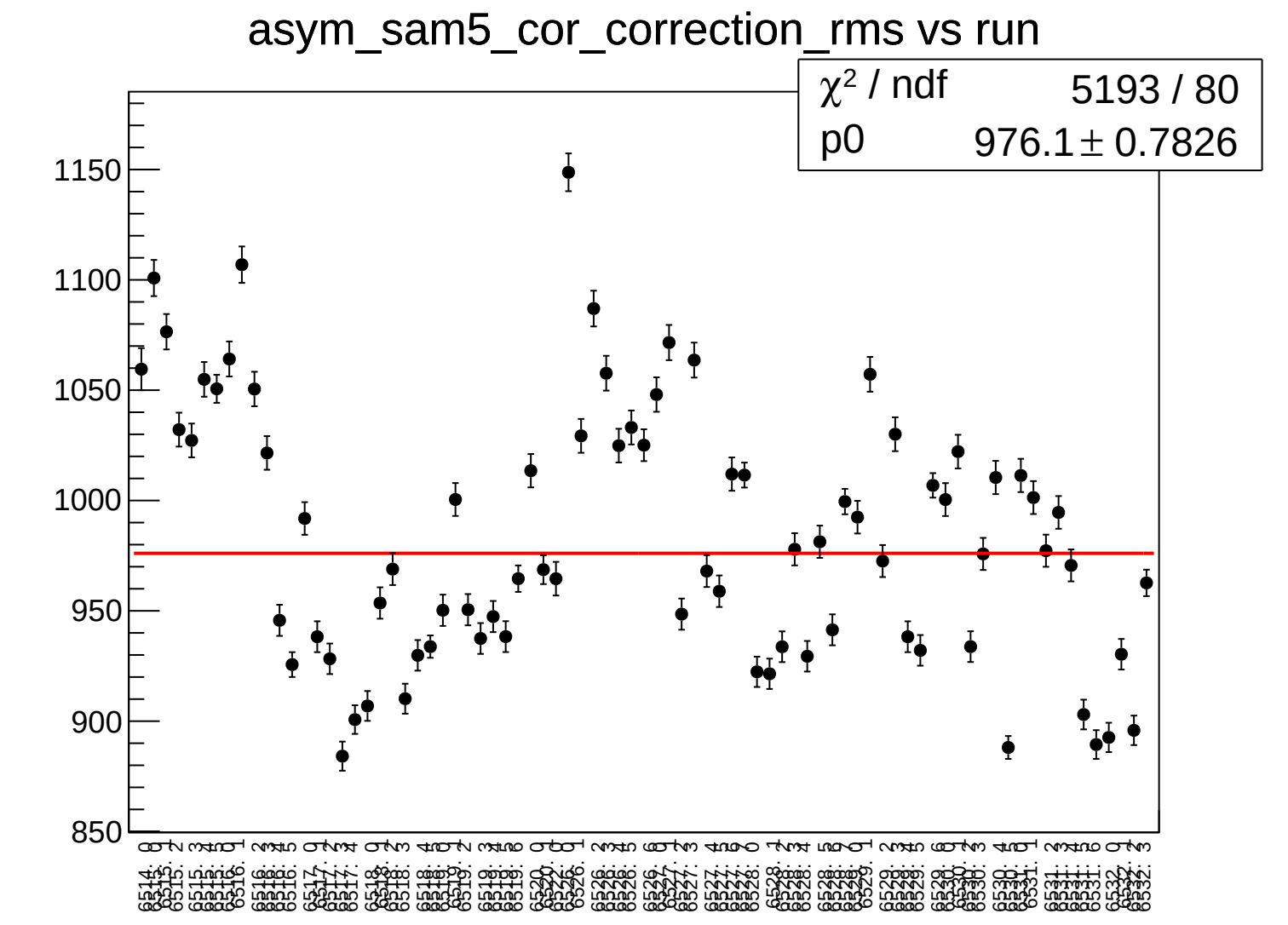

cor_asym_sam5_mean vs run
χ² / ndf 92.02 / 80
p0 433.8 ± 149
pull
Entries 81
Mean 577.7
Std Dev 0

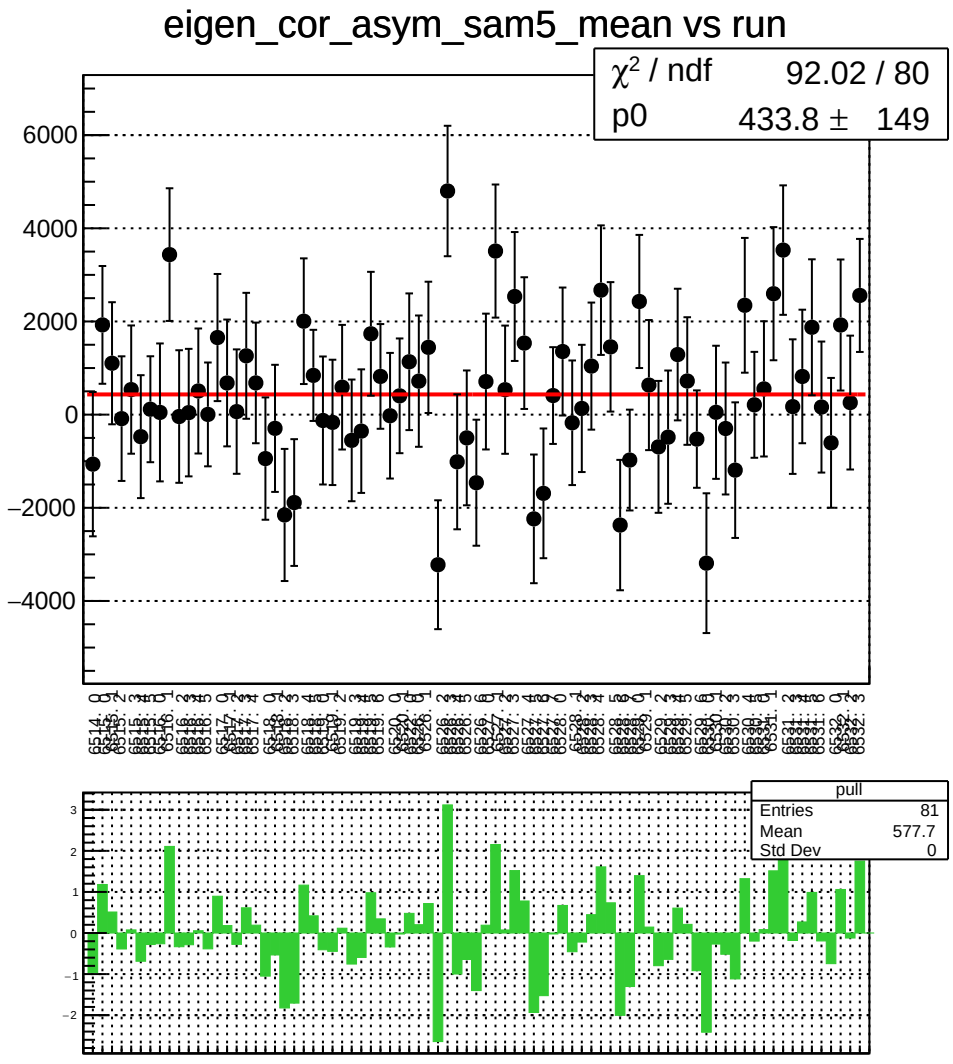

pull1D
Entries 81
Mean 0.003657
Std Dev 1.066

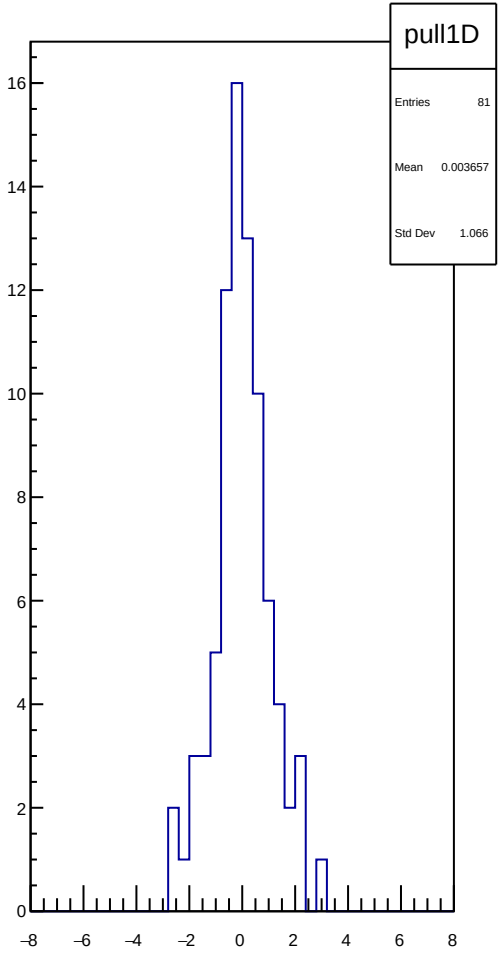

cor_asym_sam5_rms vs run
χ² / ndf 1693 / 80
p0 131.6 ± 0.1054
145
140
135
130
125
120

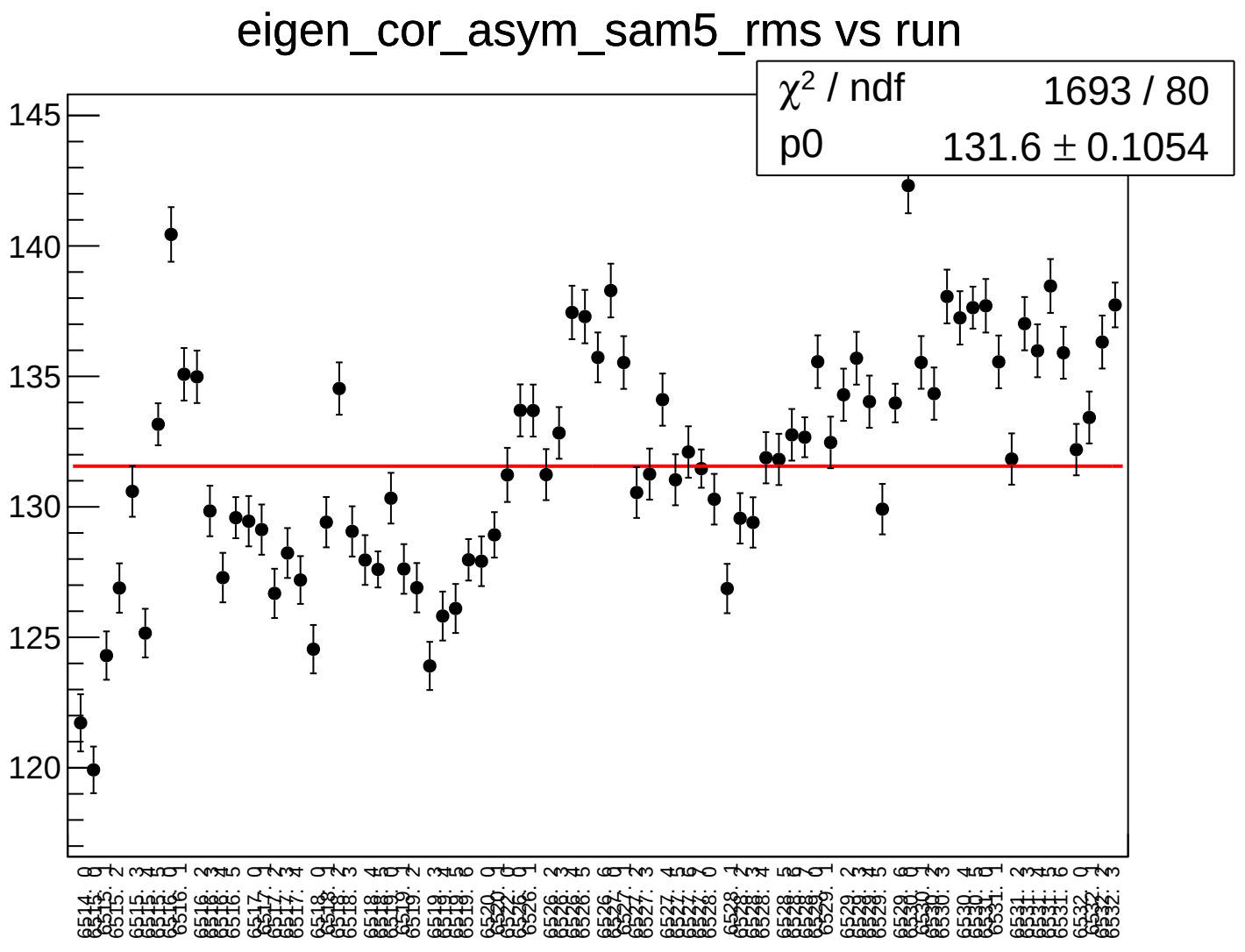

asym_sam5_cor_correction_mean vs run
χ² / ndf 64.41 / 80
p0 −1595 ± 1107
pull
Entries 81
Mean 95.57
Std Dev 39.45

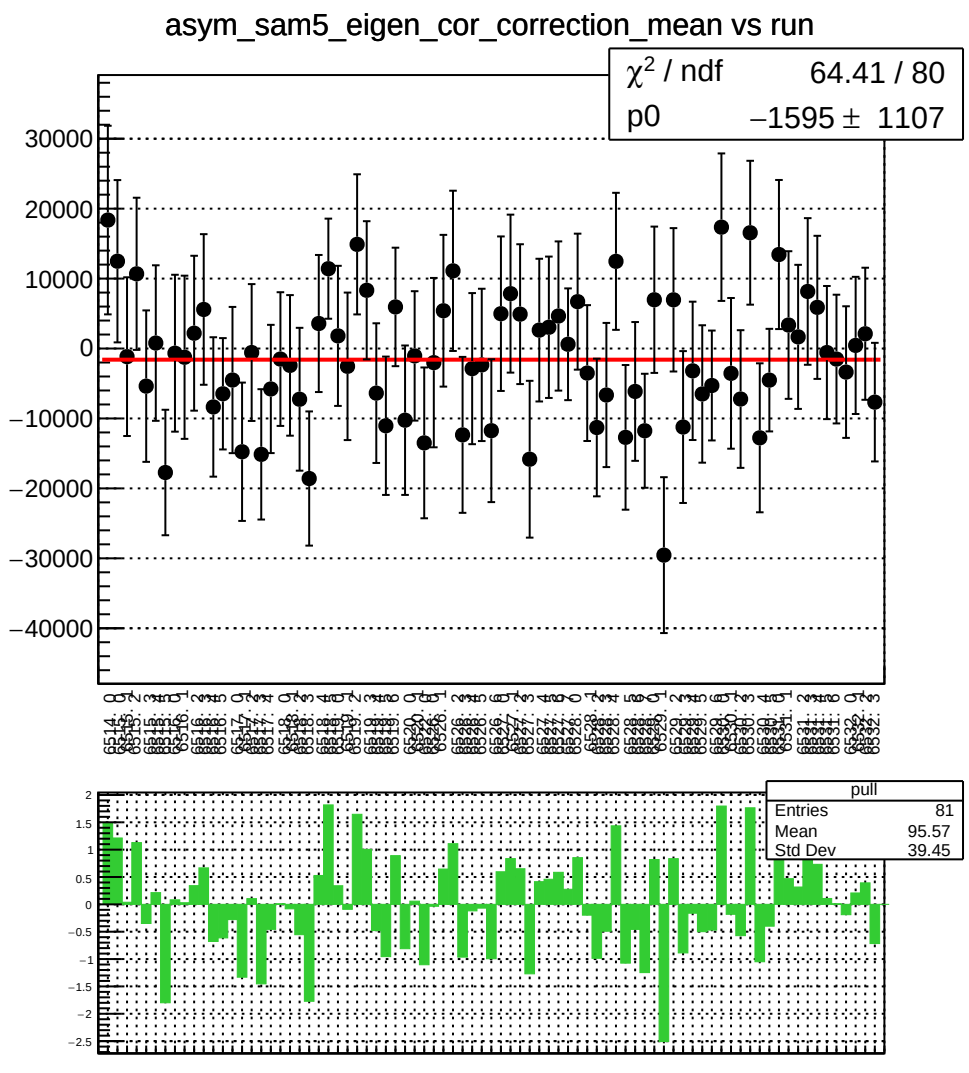

pull1D
Entries 81
Mean 0.01115
Std Dev 0.8917

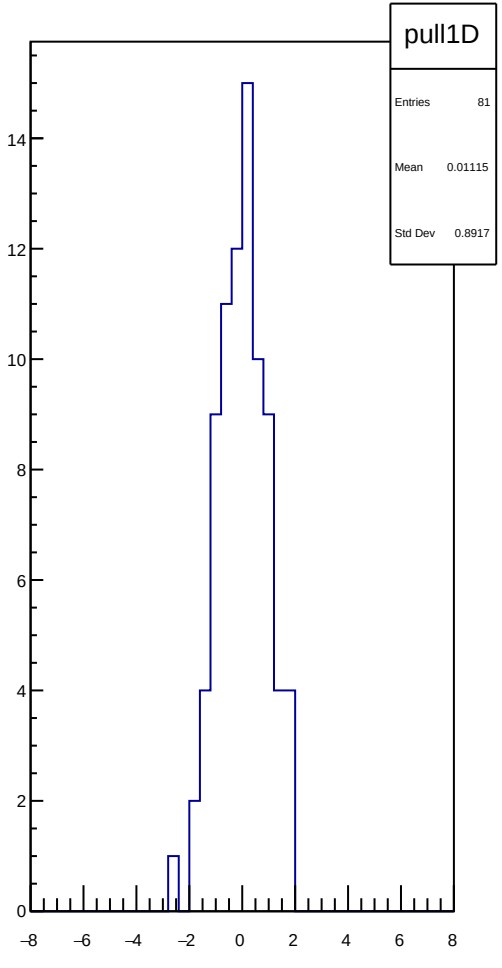

asym_sam5_cor_correction_rms vs run
χ² / ndf 5193 / 80
p0 976.1 ± 0.7826
1150
1100
1050
1000
950
900
850

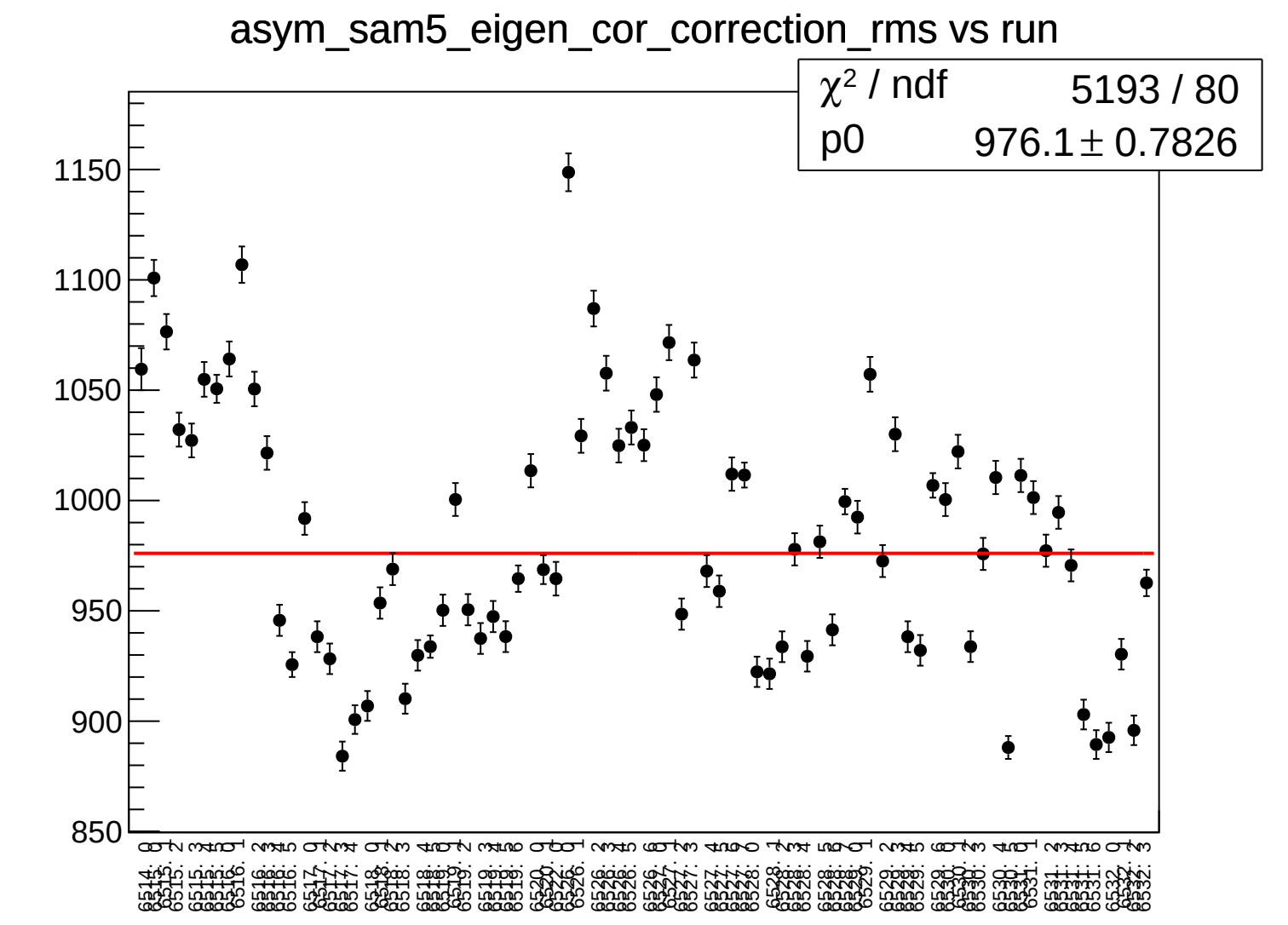

eigen_cor_asym_sam5_mean vs run
χ² / ndf 92.02 / 80
p0 433.8 ± 149
6000
4000
2000
0
−2000
−4000
pull
Entries 81
Mean 577.7
Std Dev 0
3
2
1
0
−1
−2

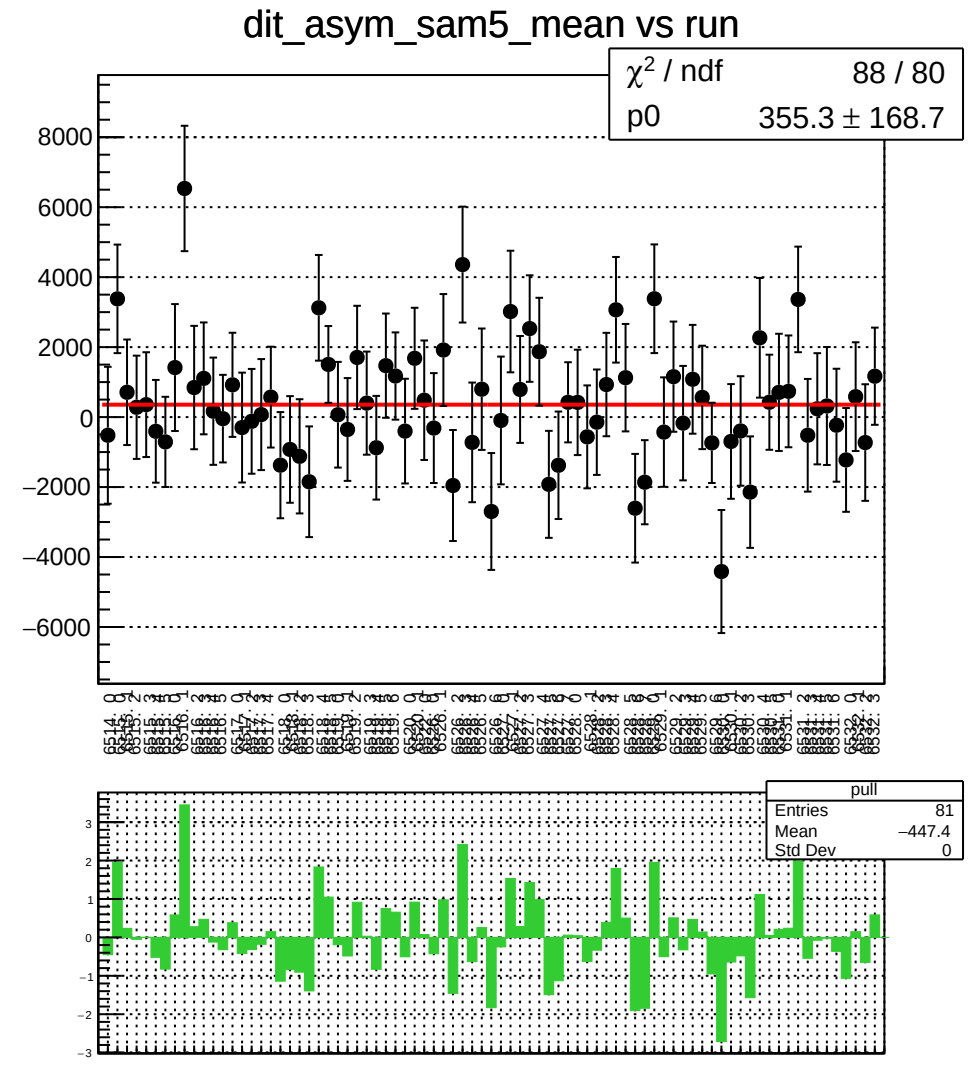

pull1D
Entries 81
Mean 0.003657
Std Dev 1.066
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

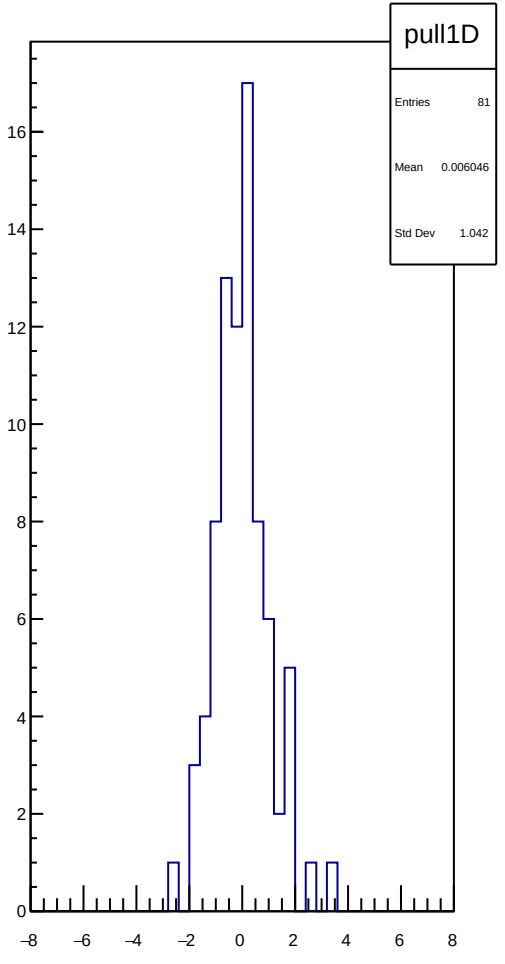

eigen_cor_asym_sam5_rms vs run
χ² / ndf 1693 / 80
p0 131.6 ± 0.1054
145
140
135
130
125
120

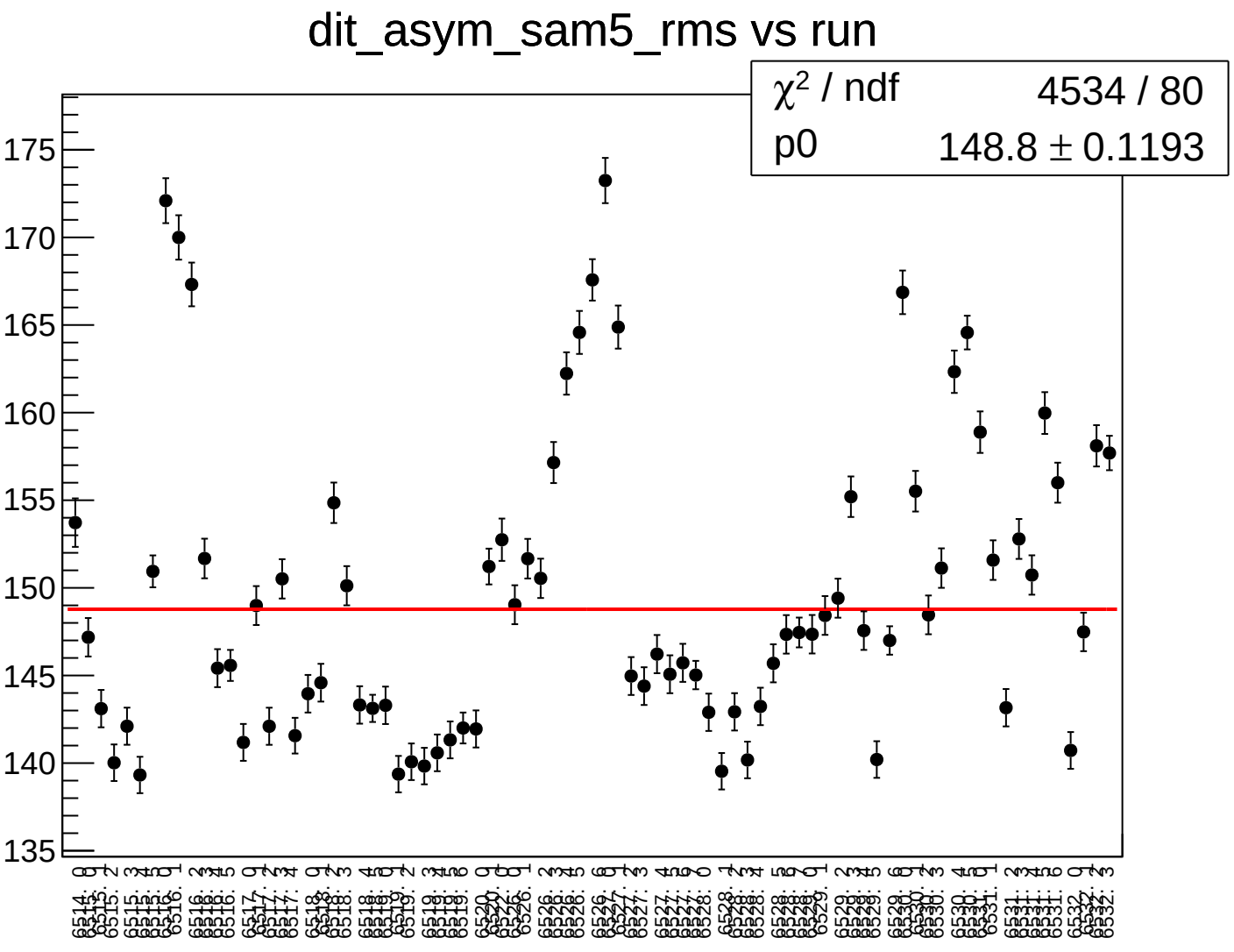

asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 64.41 / 80
p0 −1595 ± 1107
pull
Entries 81
Mean 95.57
Std Dev 39.45

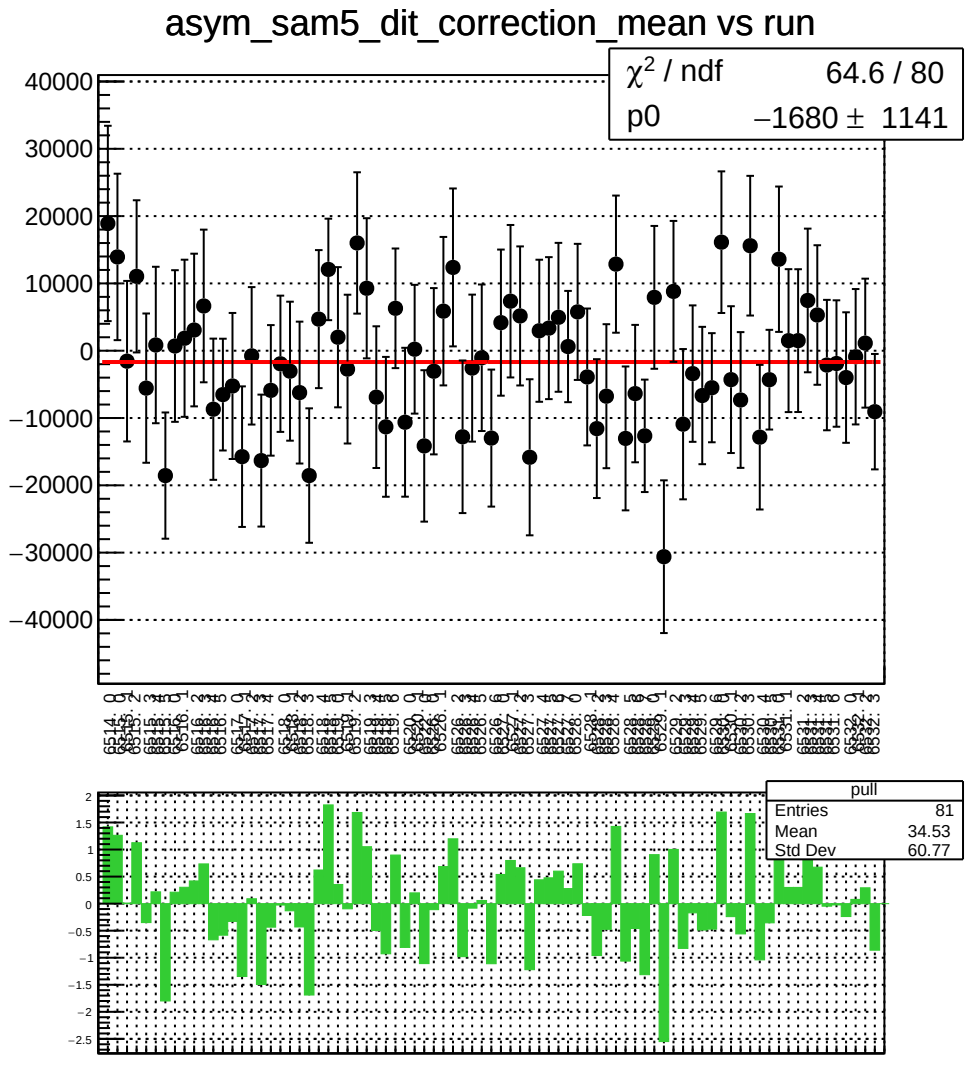

pull1D
Entries 81
Mean 0.01115
Std Dev 0.8917

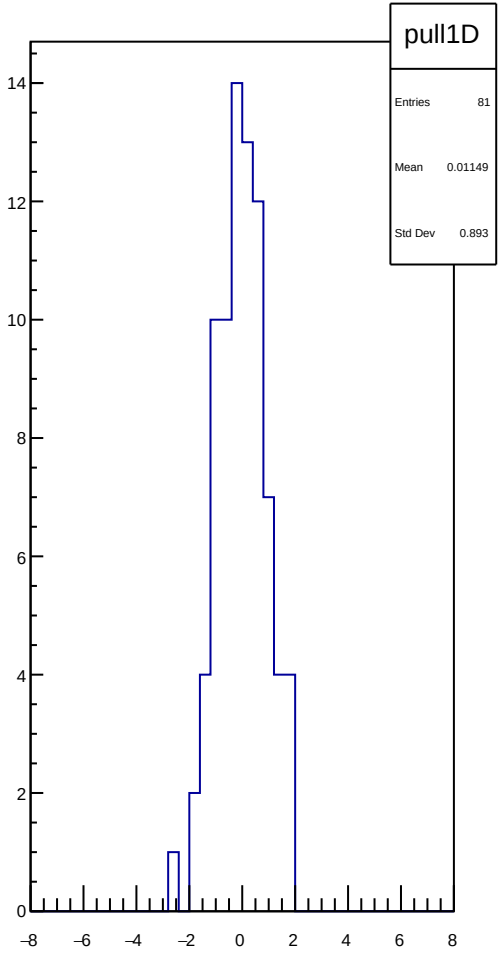

asym_sam5_eigen_cor_correction_rms vs run
χ² / ndf 5193 / 80
p0 976.1 ± 0.7826
1150
1100
1050
1000
950
900
850

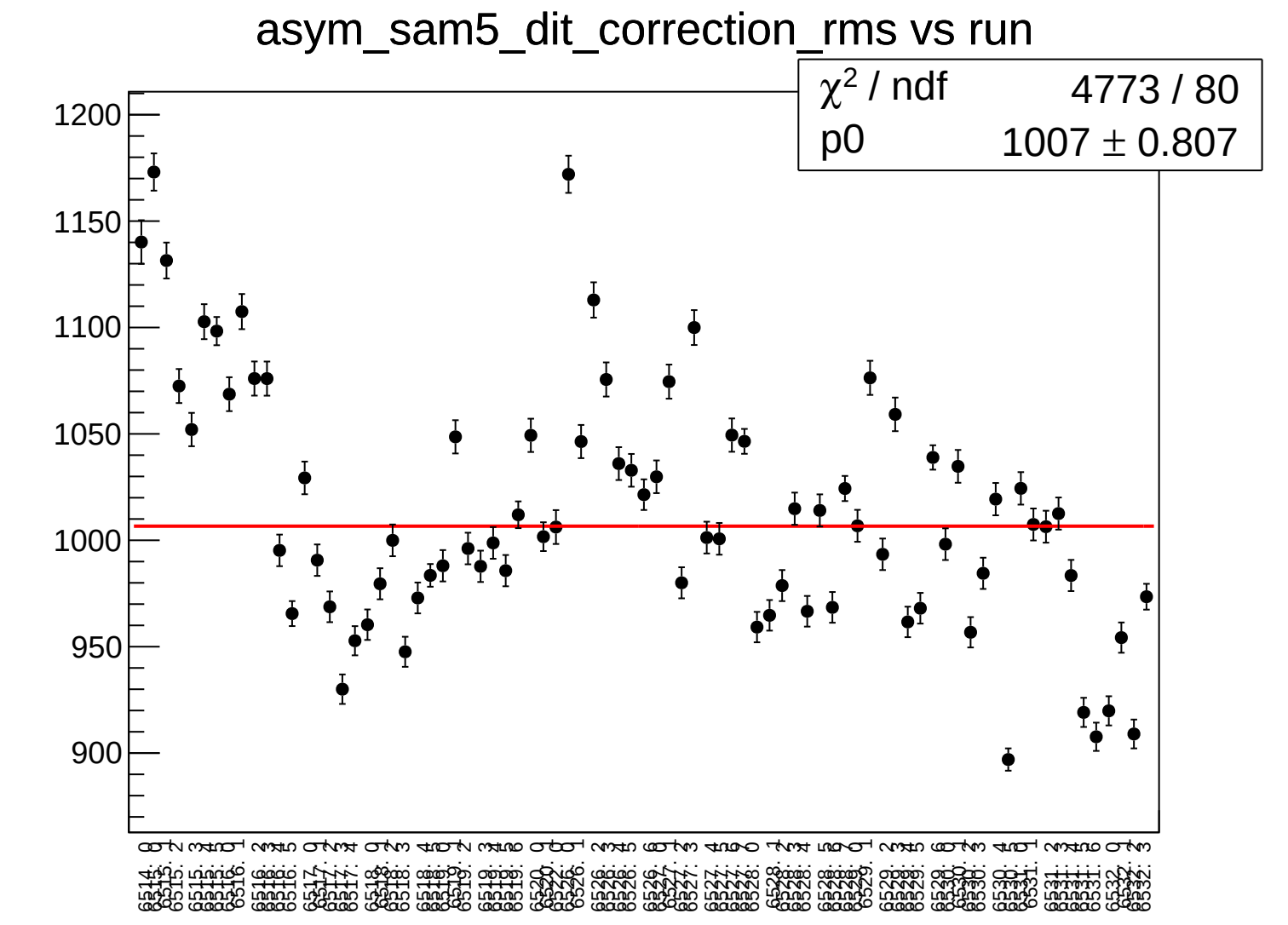

dit_asym_sam5_mean vs run
χ^2 / ndf 88 / 80
p0 355.3 ± 168.7
pull
Entries 81
Mean −447.4
Std Dev 0

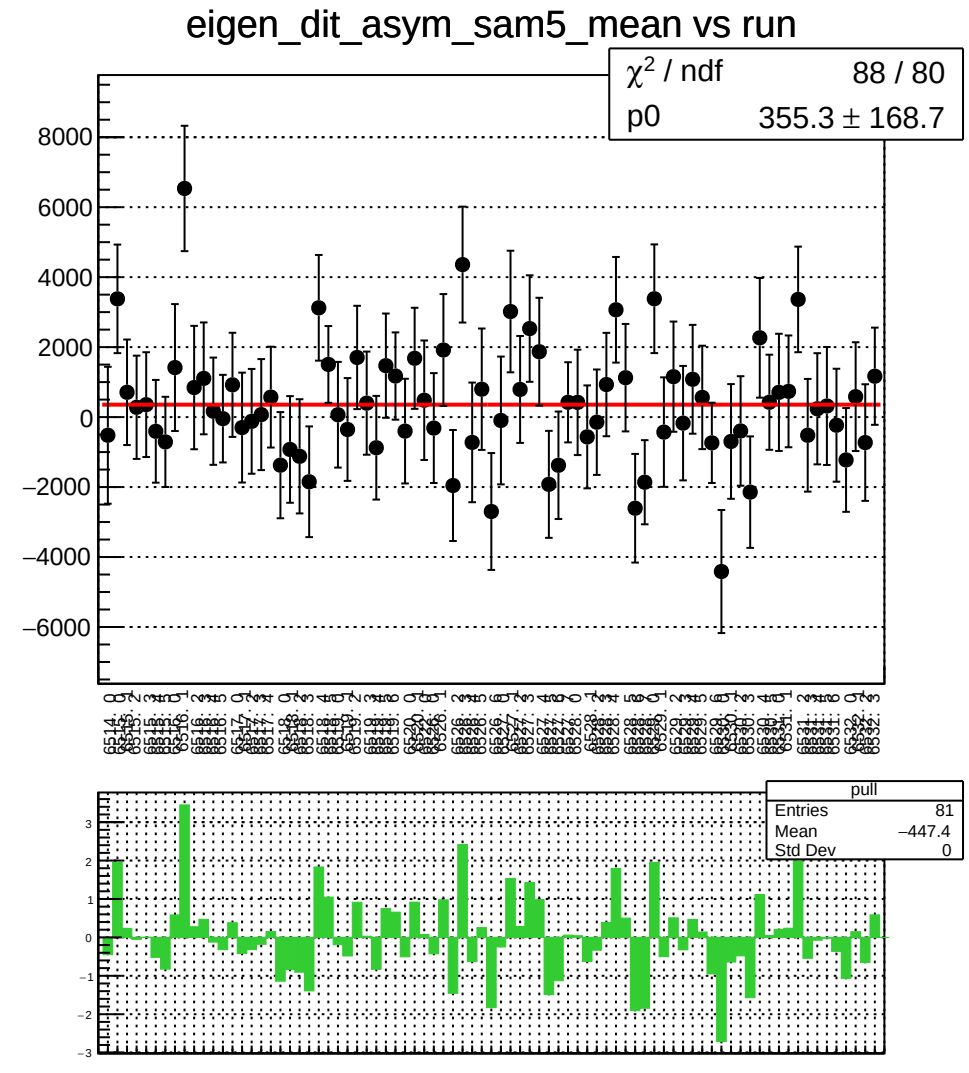

pull1D
Entries 81
Mean 0.006046
Std Dev 1.042

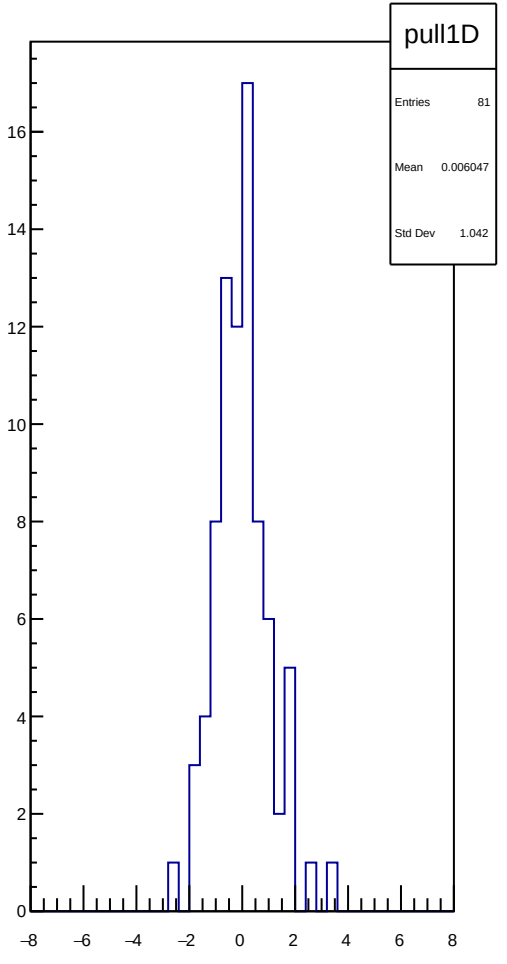

dit_asym_sam5_rms vs run
χ² / ndf 4534 / 80
p0 148.8 ± 0.1193
175
170
165
160
155
150
145
140
135

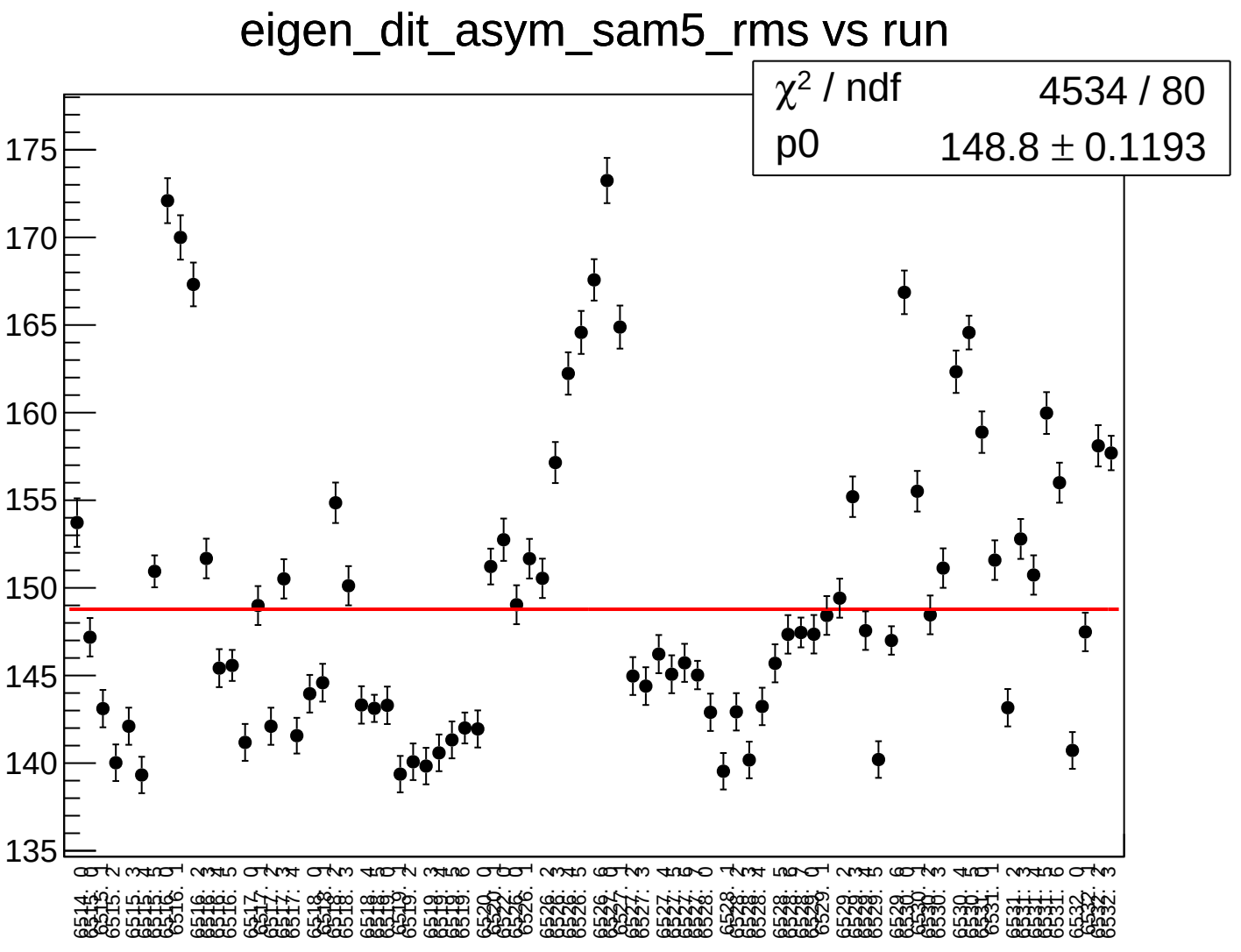

asym_sam5_dit_correction_mean vs run
χ² / ndf 64.6 / 80
p0 −1680 ± 1141
pull
Entries 81
Mean 34.53
Std Dev 60.77

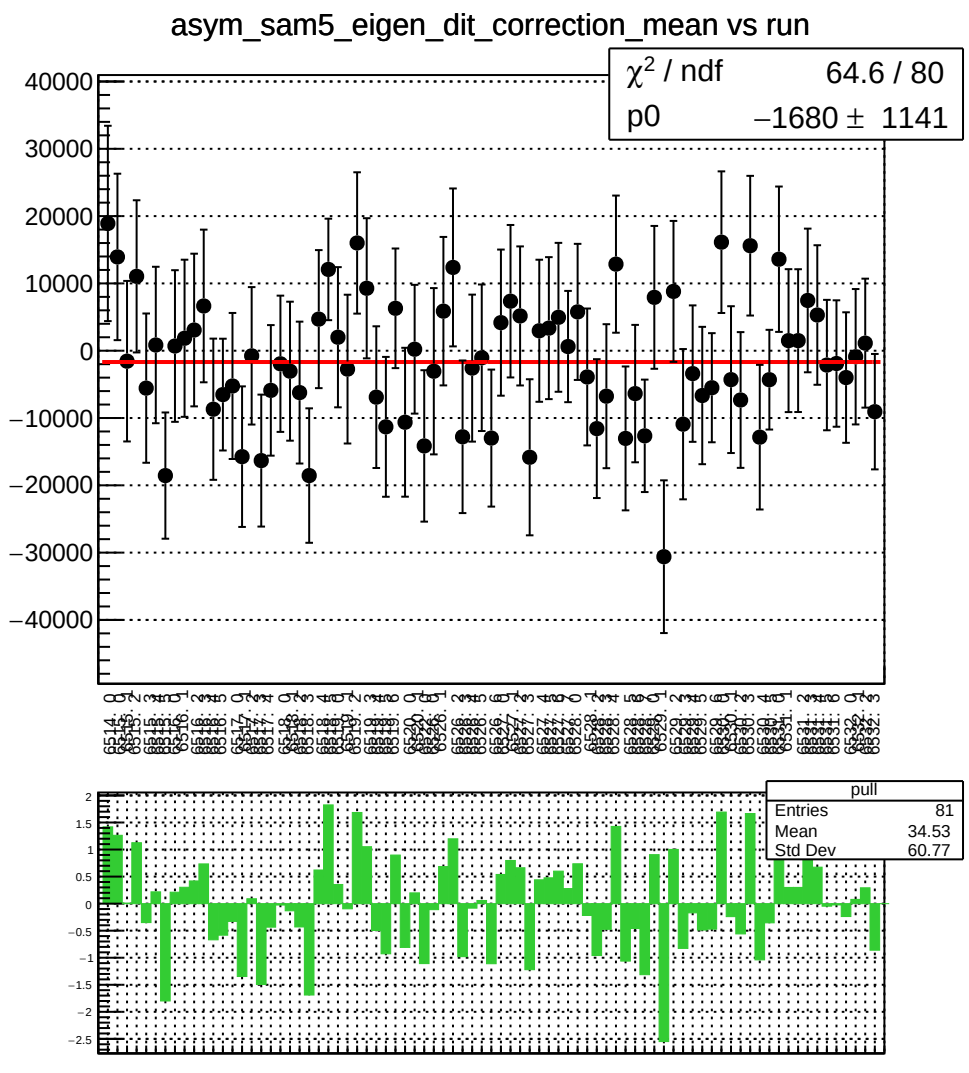

pull1D
Entries 81
Mean 0.01149
Std Dev 0.893

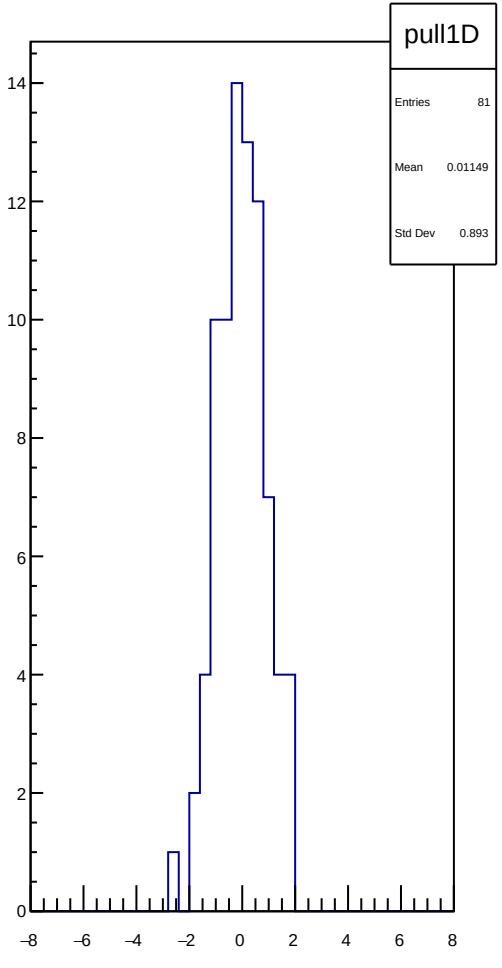

asym_sam5_dit_correction_rms vs run
χ² / ndf 4773 / 80
p0 1007 ± 0.807
1200
1150
1100
1050
1000
950
900

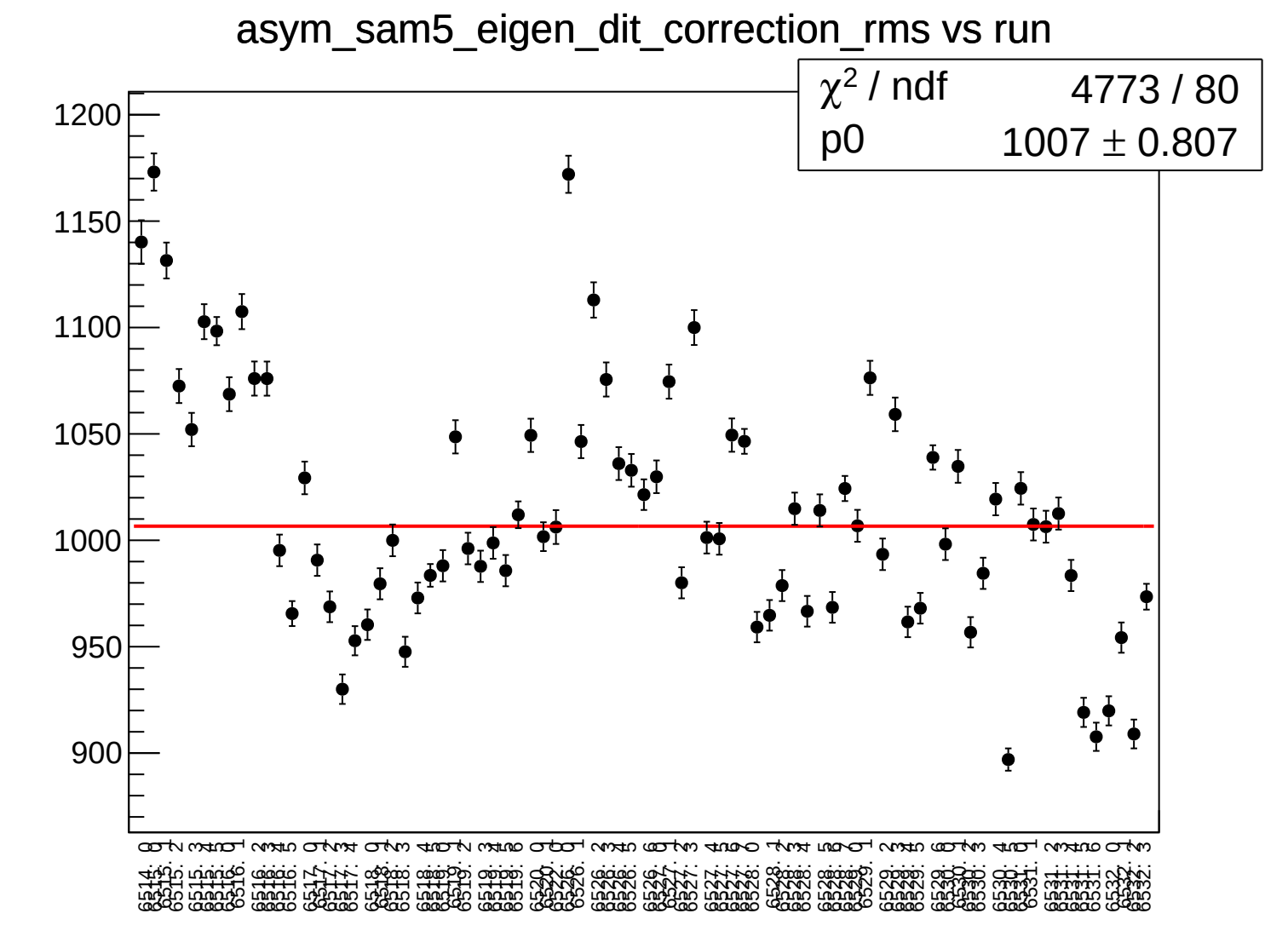

eigen_dit_asym_sam5_mean vs run
χ² / ndf 88 / 80
p0 355.3 ± 168.7
pull
Entries 81
Mean −447.4
Std Dev 0

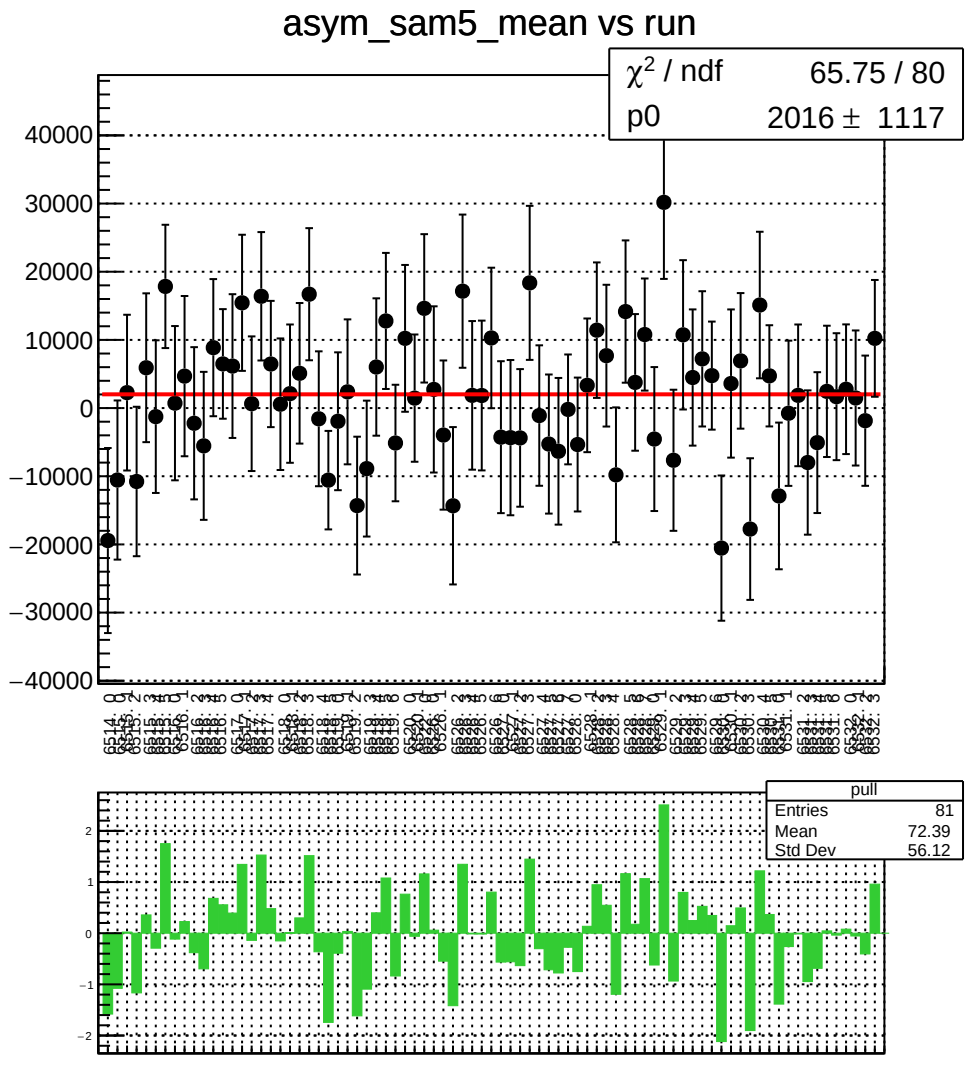

pull1D
Entries 81
Mean 0.006047
Std Dev 1.042

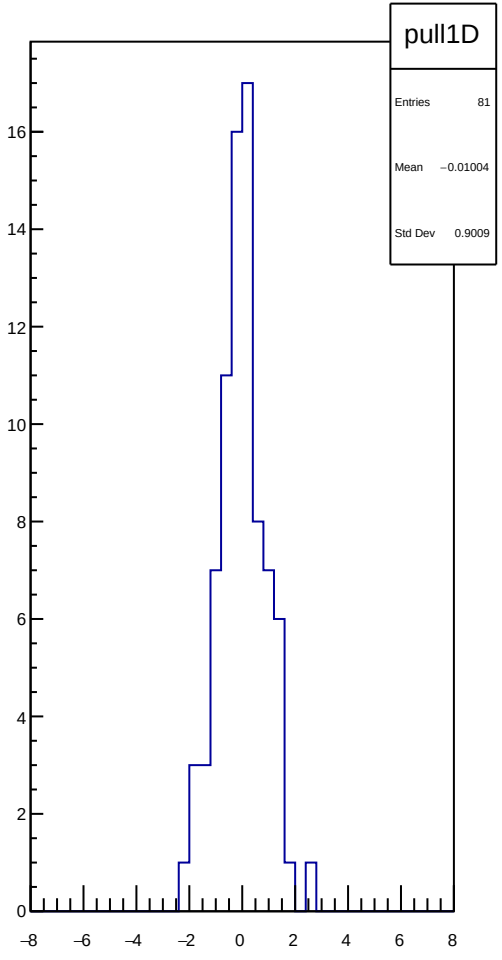

eigen_dit_asym_sam5_rms vs run
χ² / ndf 4534 / 80
p0 148.8 ± 0.1193
175
170
165
160
155
150
145
140
135

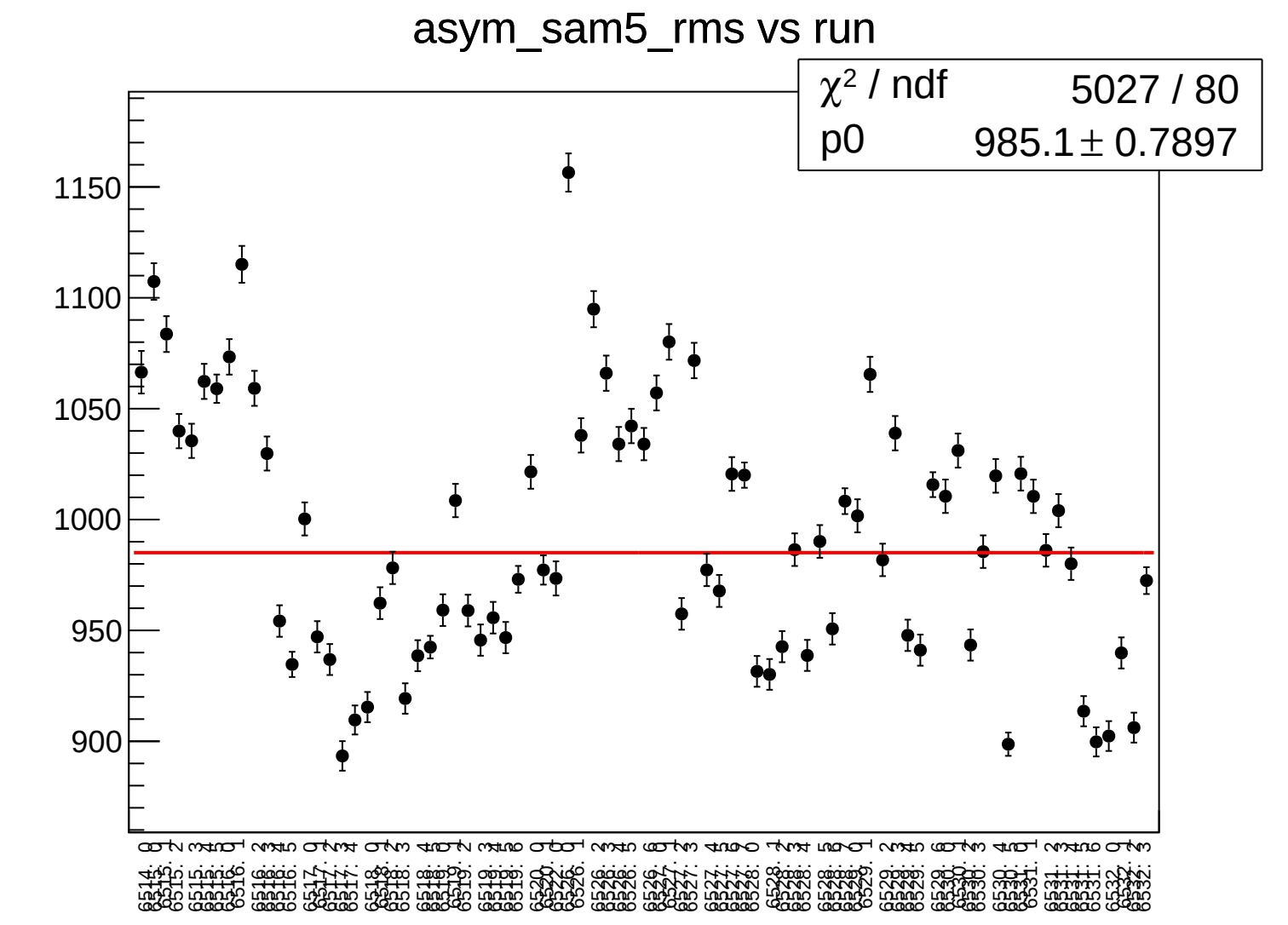

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 64.6 / 80
p0 −1680 ± 1141
pull
Entries 81
Mean 34.53
Std Dev 60.77

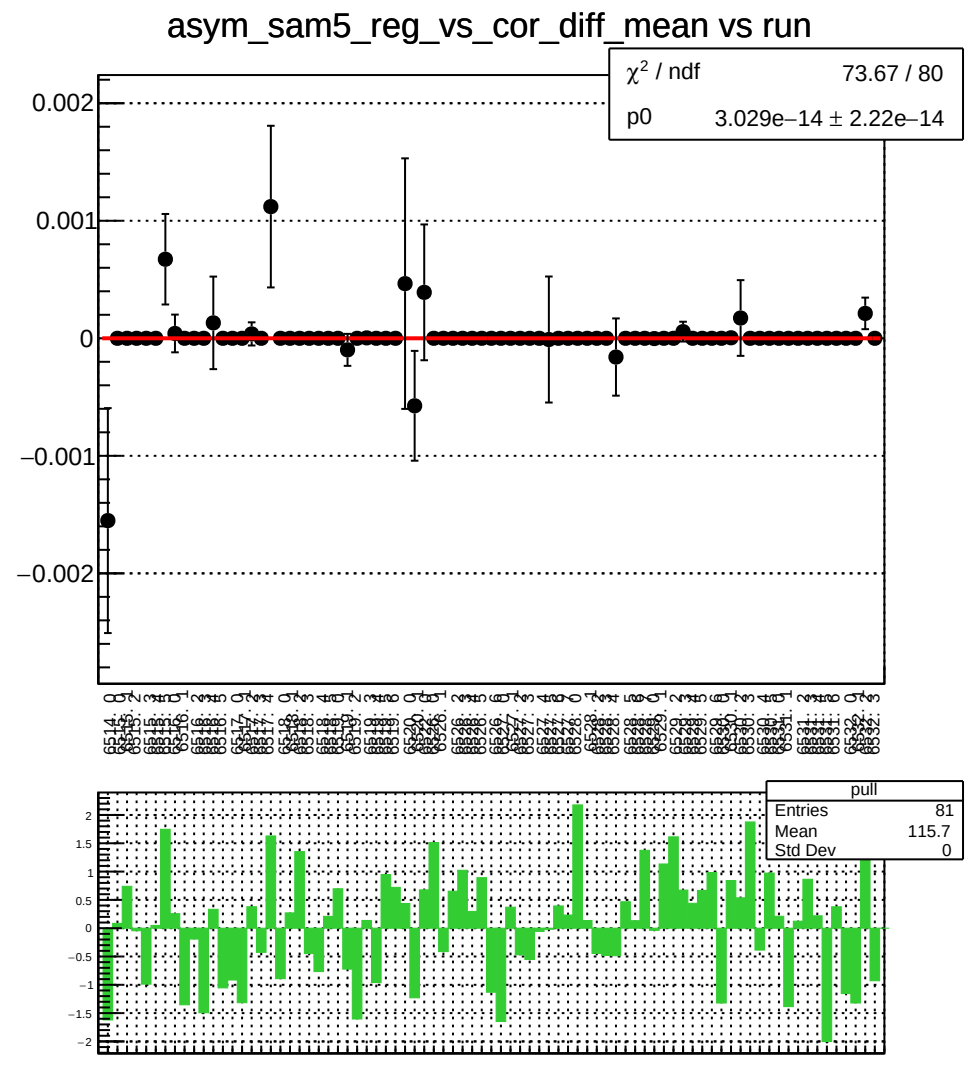

pull1D
Entries 81
Mean 0.01149
Std Dev 0.893

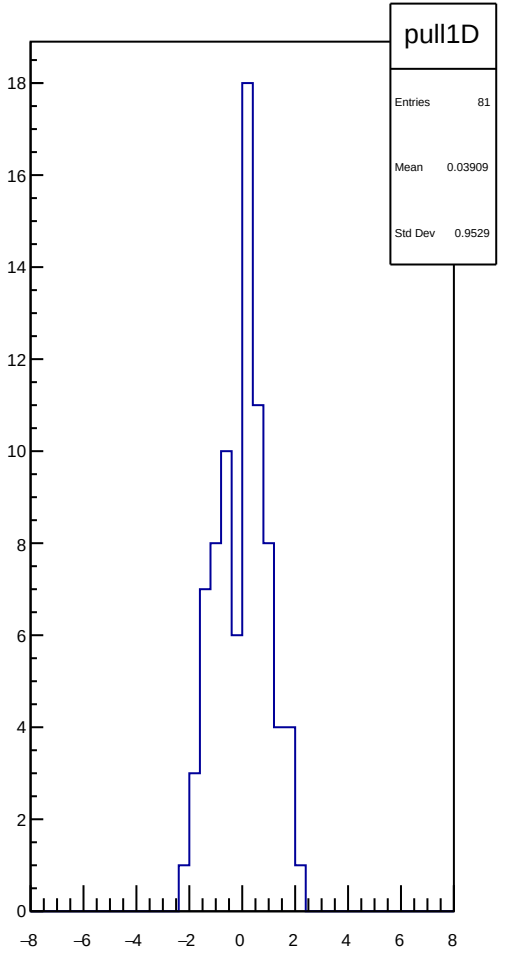

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 4773 / 80
p0 1007 ± 0.807
1200
1150
1100
1050
1000
950
900

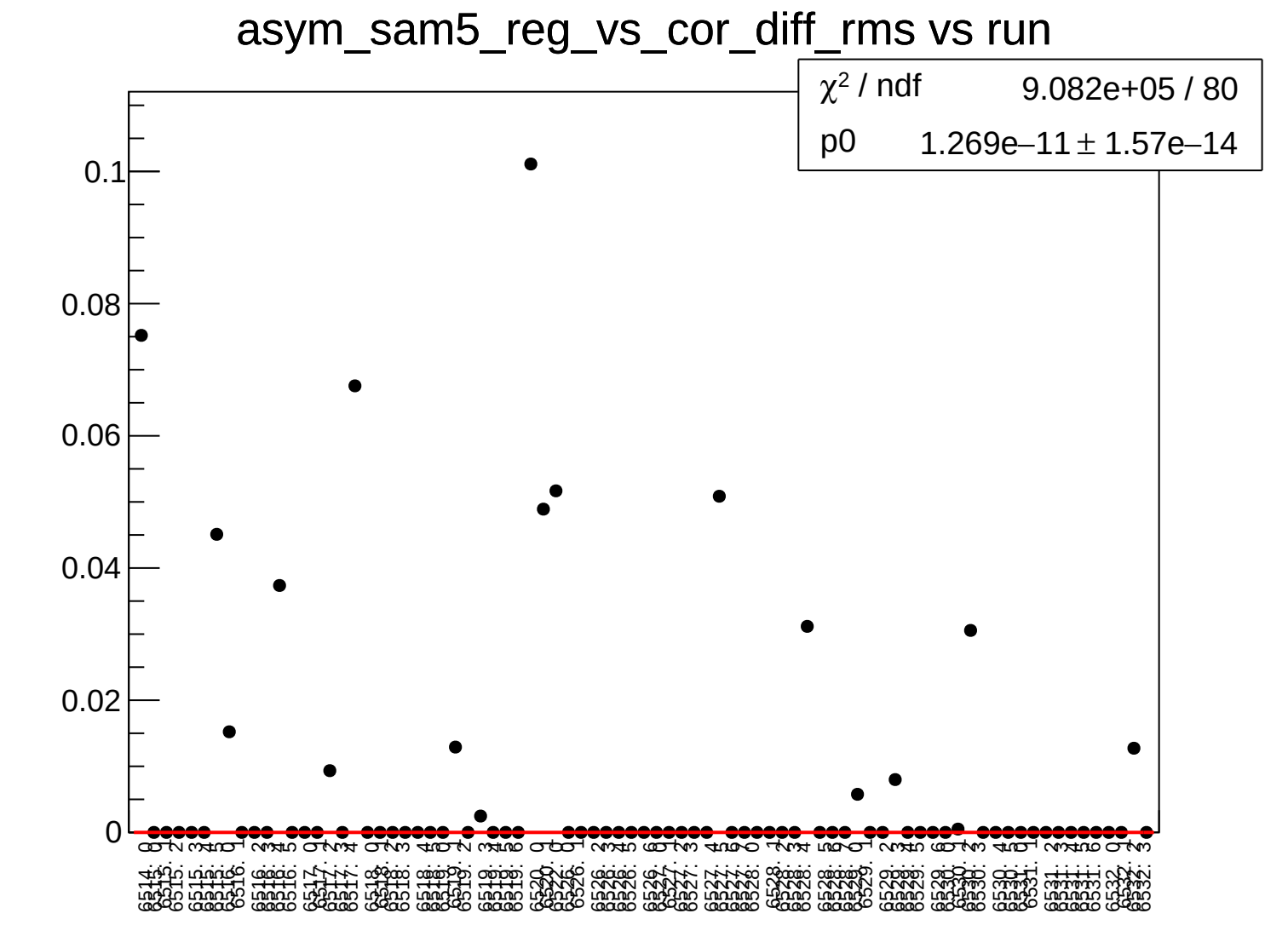

asym_sam5_mean vs run
χ² / ndf 65.75 / 80
p0 2016 ± 1117
pull
Entries 81
Mean 72.39
Std Dev 56.12

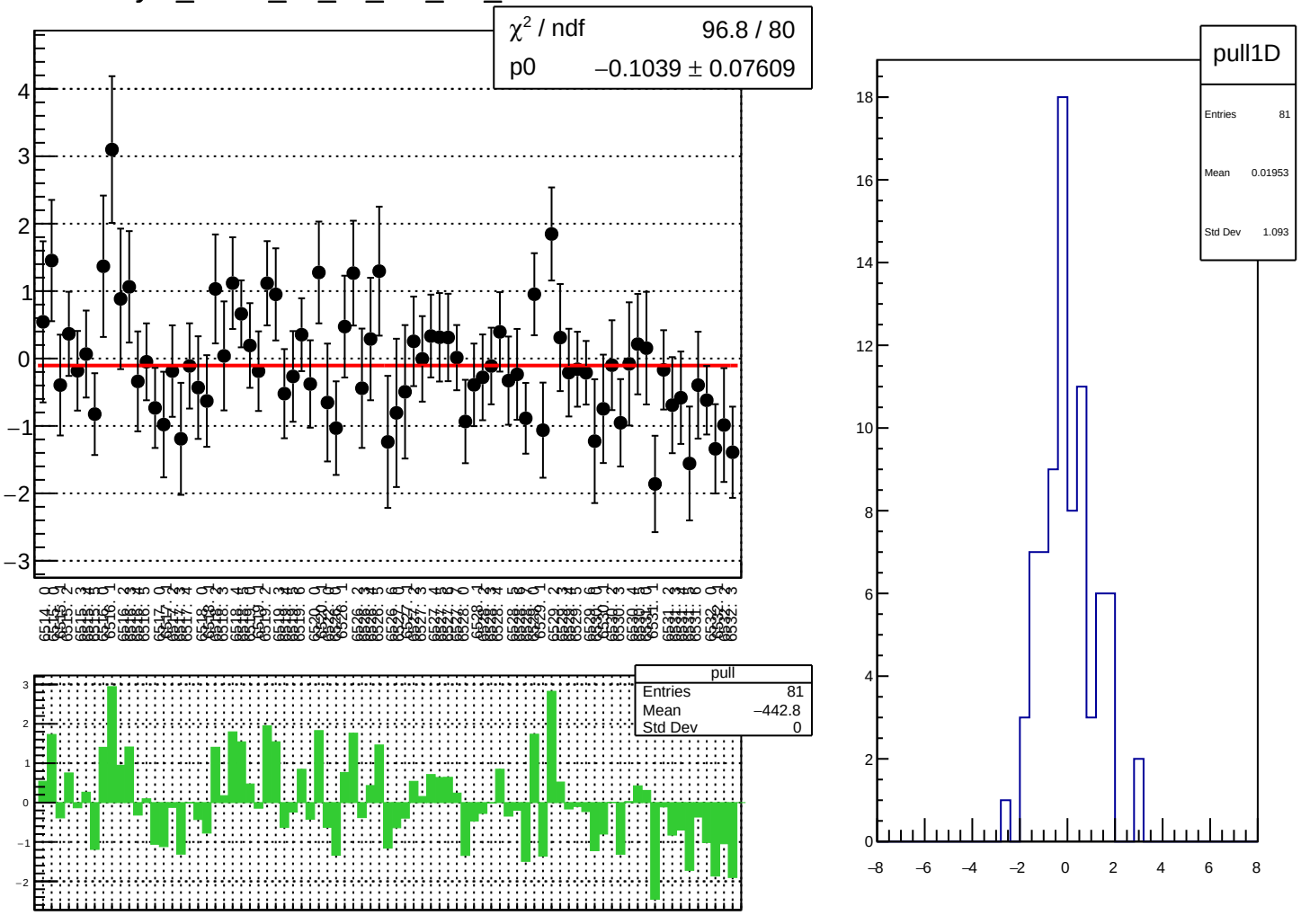

pull1D
Entries 81
Mean −0.01004
Std Dev 0.9009

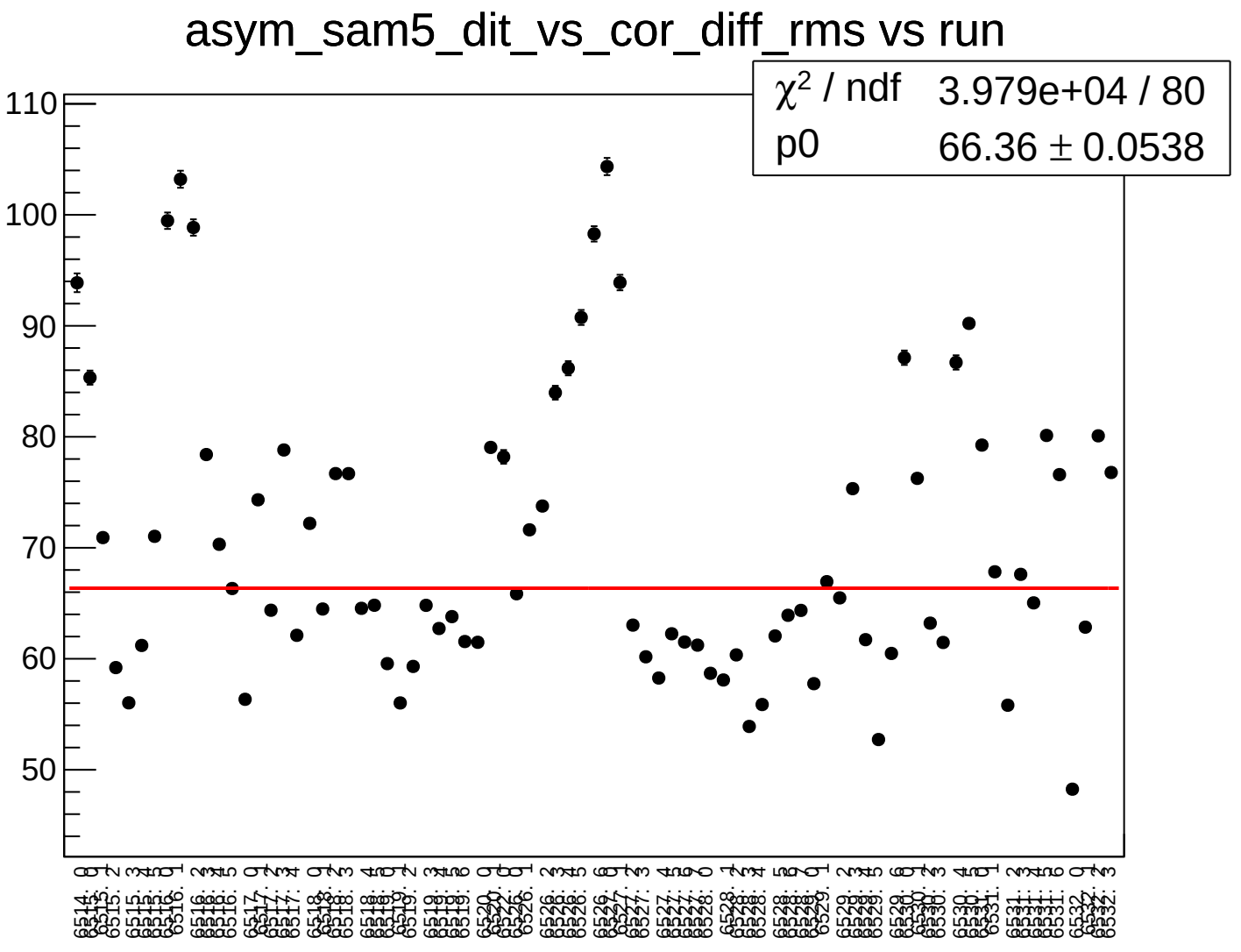

asym_sam5_rms vs run
χ² / ndf 5027 / 80
p0 985.1 ± 0.7897
1150
1100
1050
1000
950
900

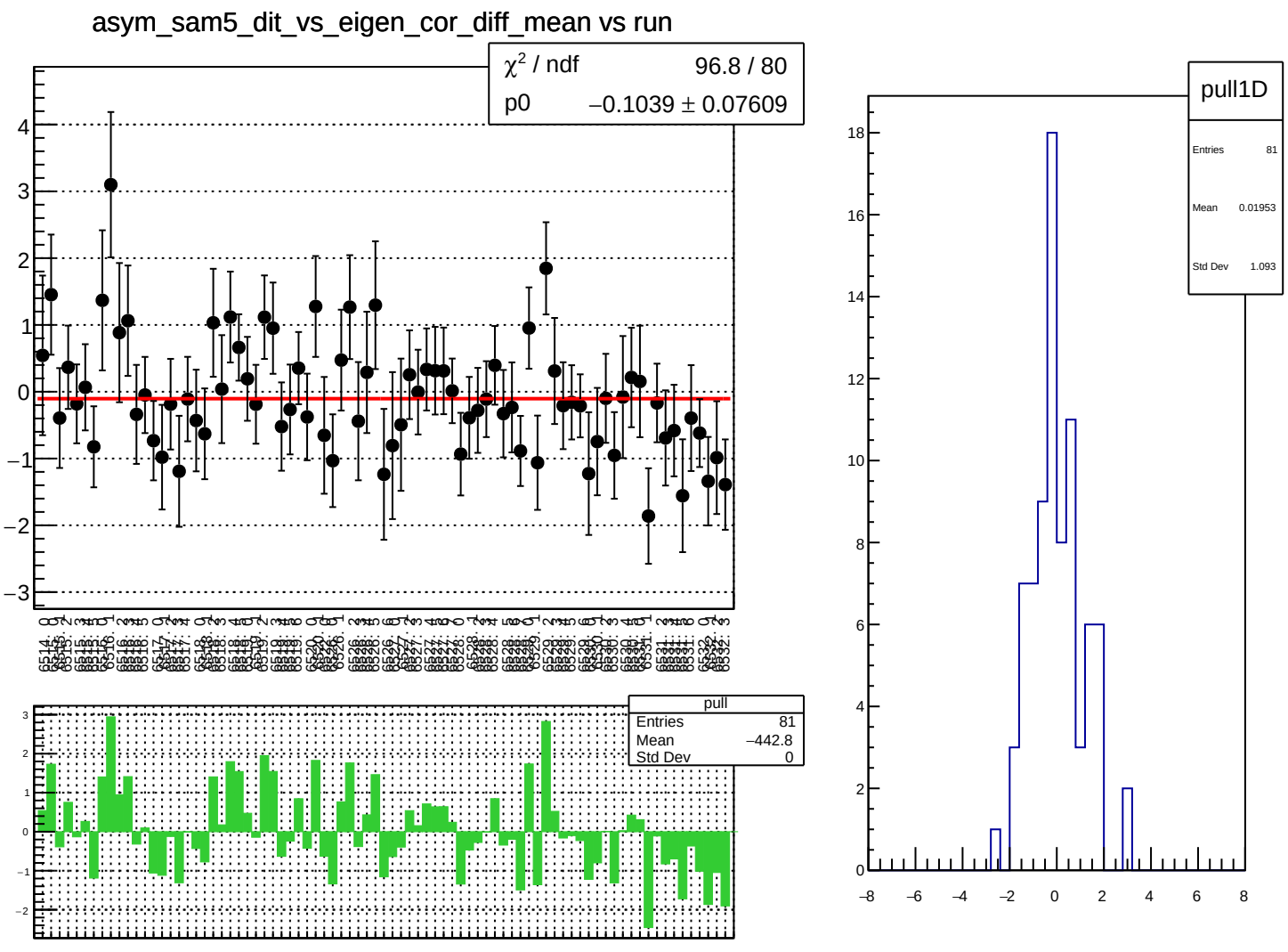

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 73.67 / 80
p0 3.029e−14 ± 2.22e−14
0.002
0.001
0
−0.001
−0.002
pull
Entries 81
Mean 115.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

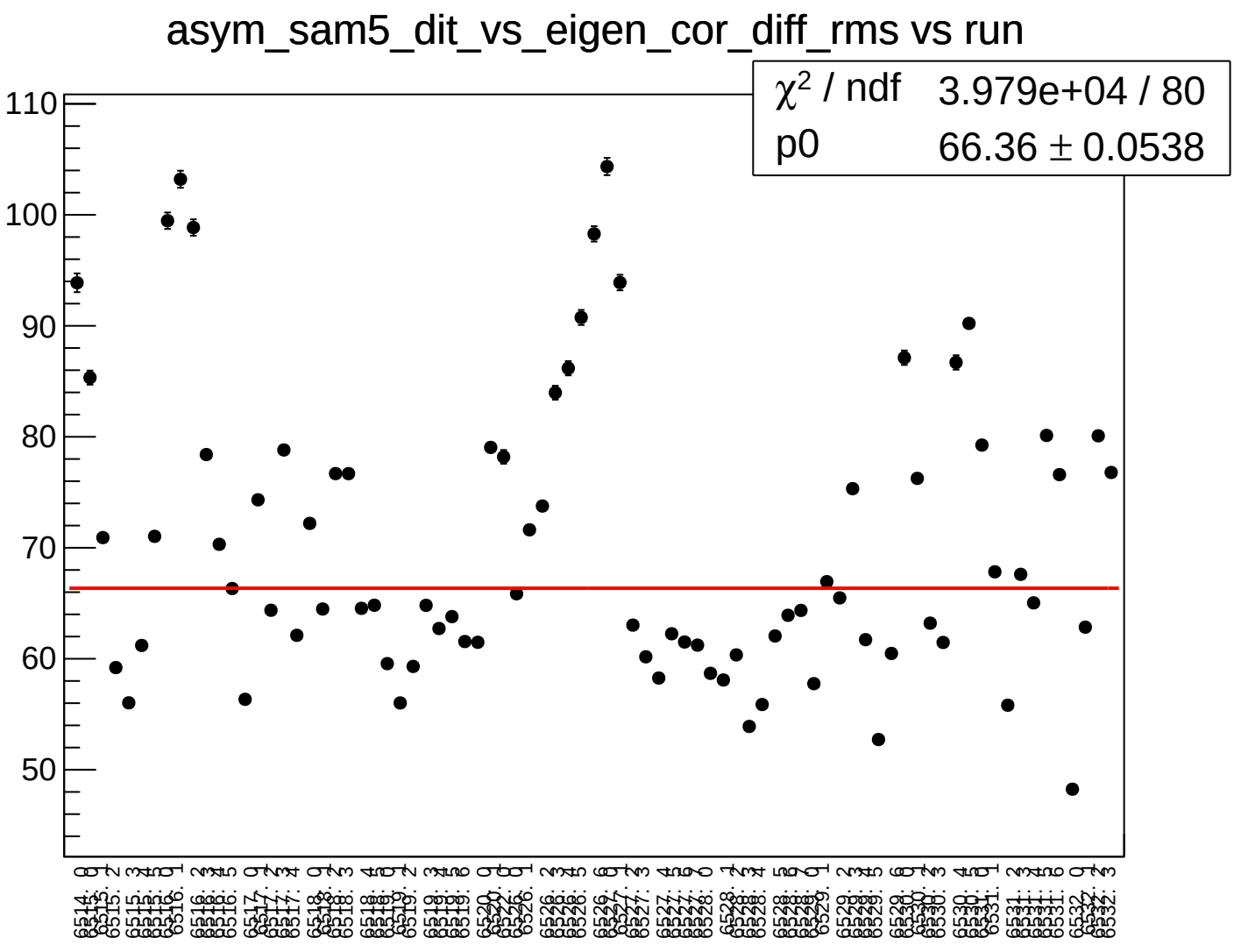

pull1D
Entries 81
Mean 0.03909
Std Dev 0.9529
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

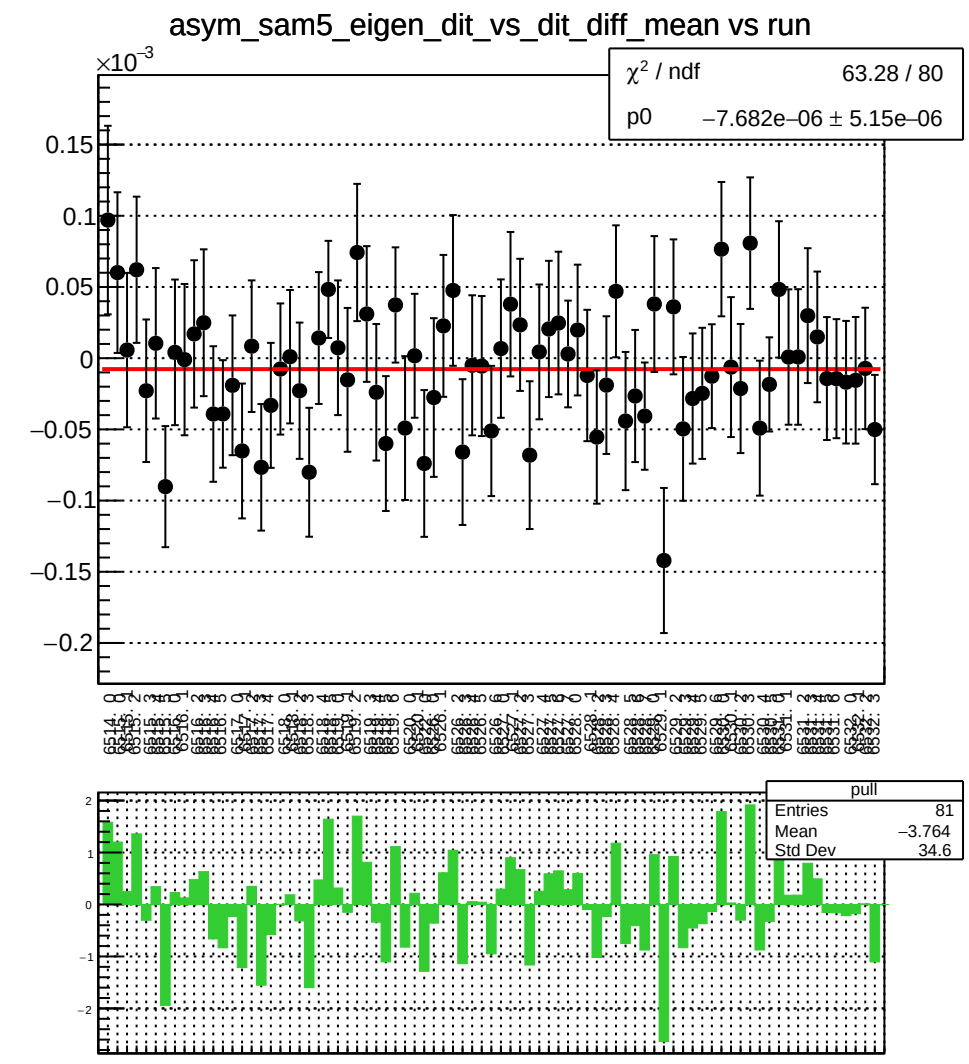

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 9.082e+05 / 80
p0 1.269e−11 ± 1.57e−14
0.1
0.08
0.06
0.04
0.02
0

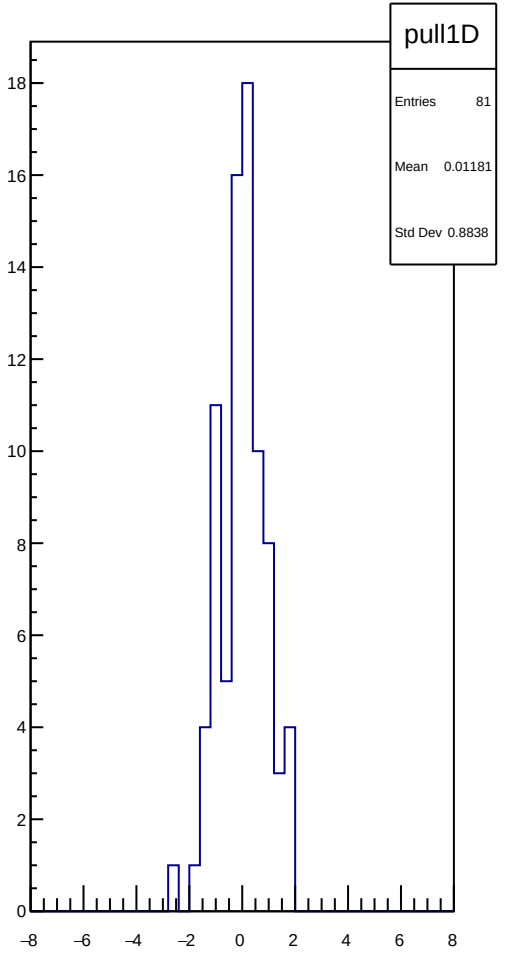

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 96.8 / 80
p0 −0.1039 ± 0.07609
pull
Entries 81
Mean −442.8
Std Dev 0
pull1D
Entries 81
Mean 0.01953
Std Dev 1.093

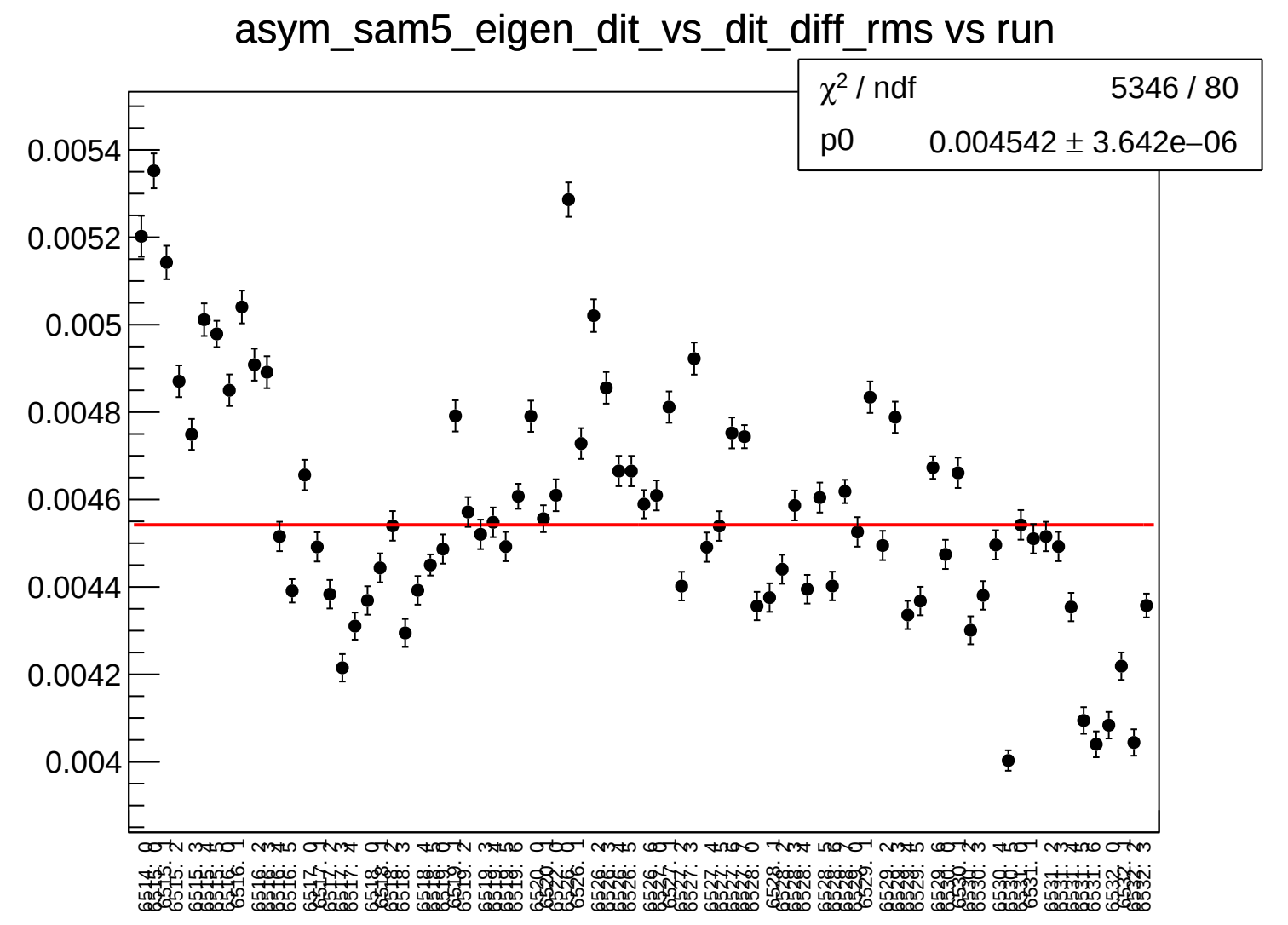

asym_sam5_dit_vs_cor_diff_rms vs run
χ² / ndf 3.979e+04 / 80
p0 66.36 ± 0.0538
110
100
90
80
70
60
50

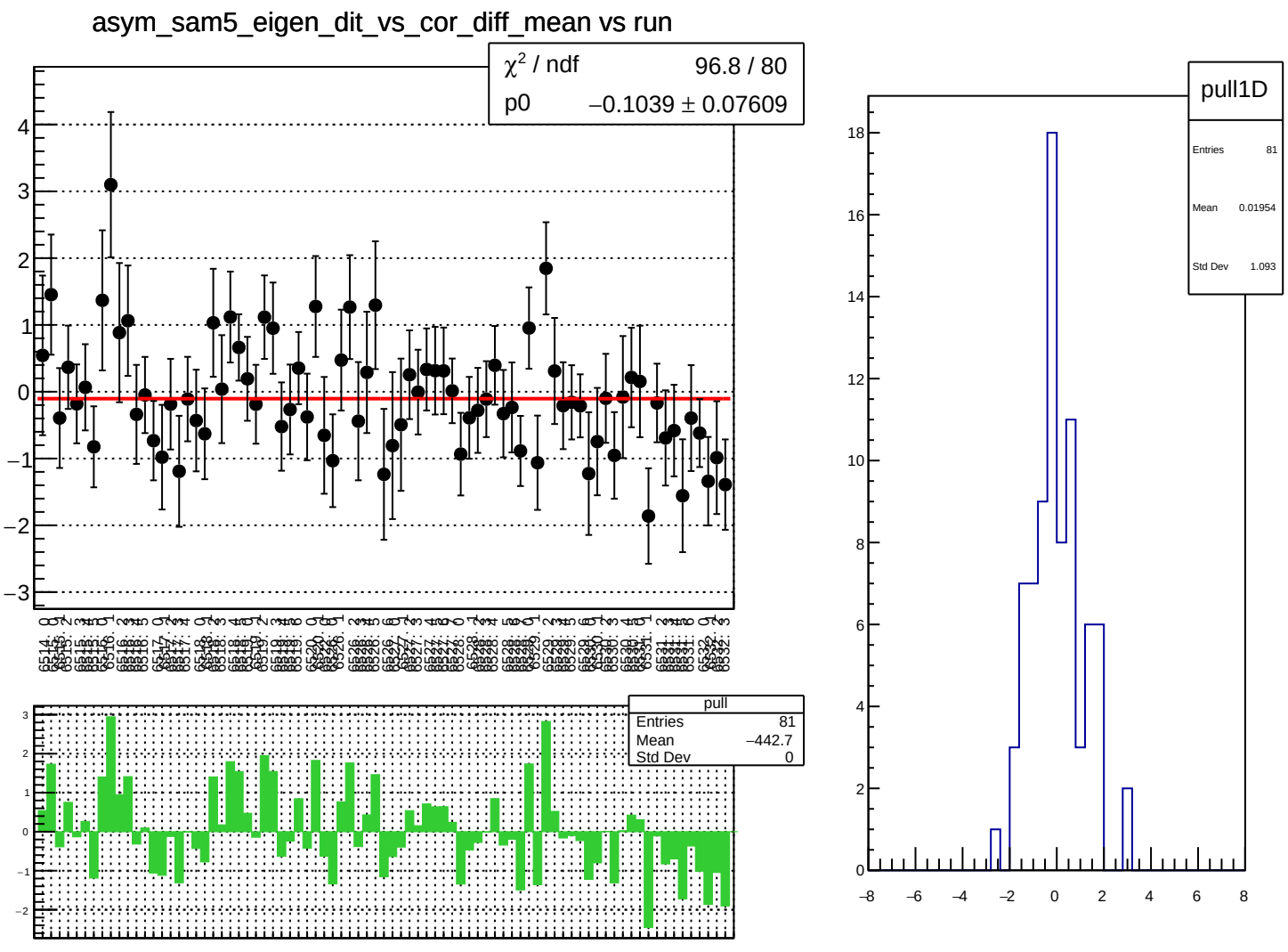

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.8 / 80
p0 −0.1039 ± 0.07609
pull
Entries 81
Mean −442.8
Std Dev 0
pull1D
Entries 81
Mean 0.01953
Std Dev 1.093

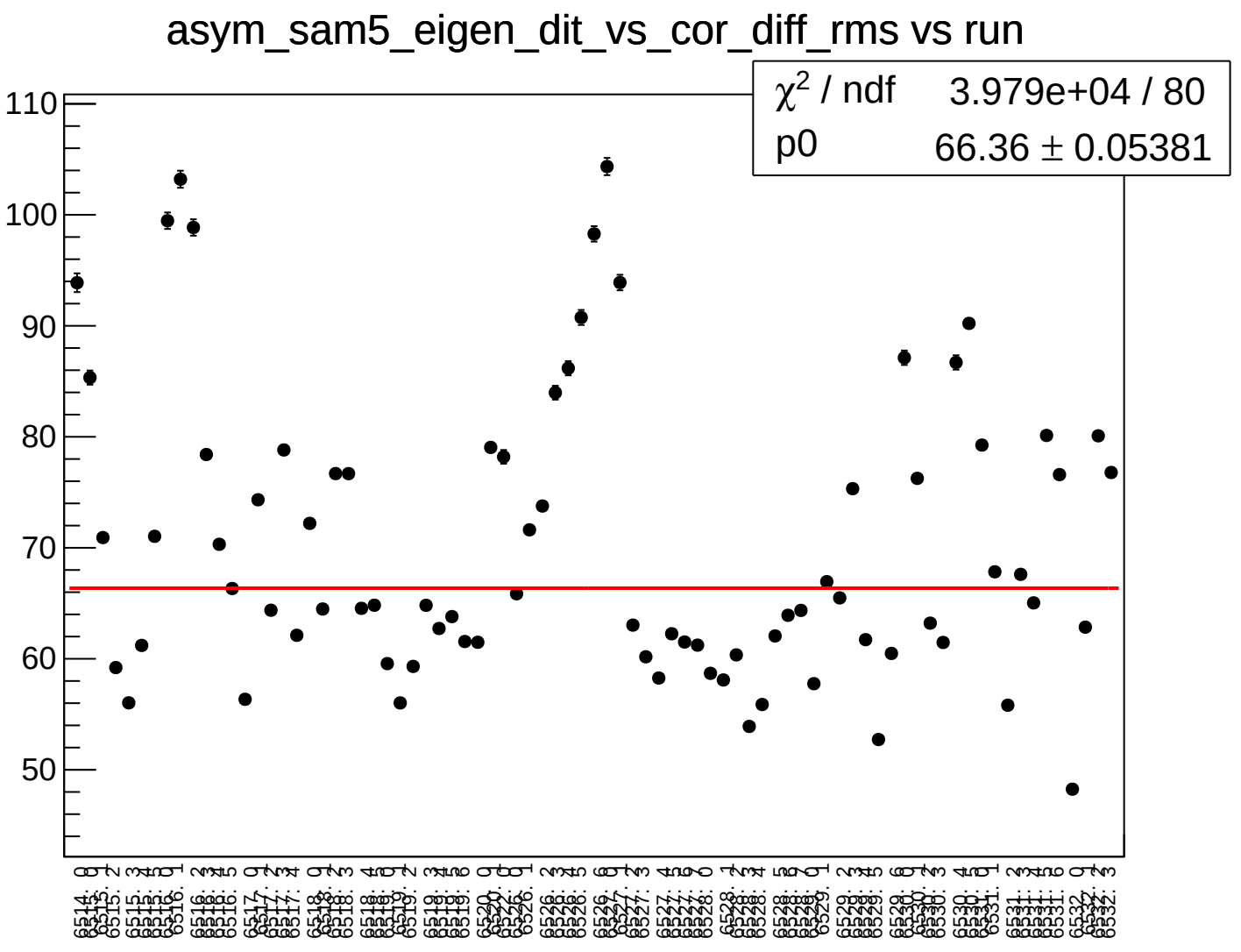

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.979e+04 / 80
p0 66.36 ± 0.0538
110
100
90
80
70
60
50

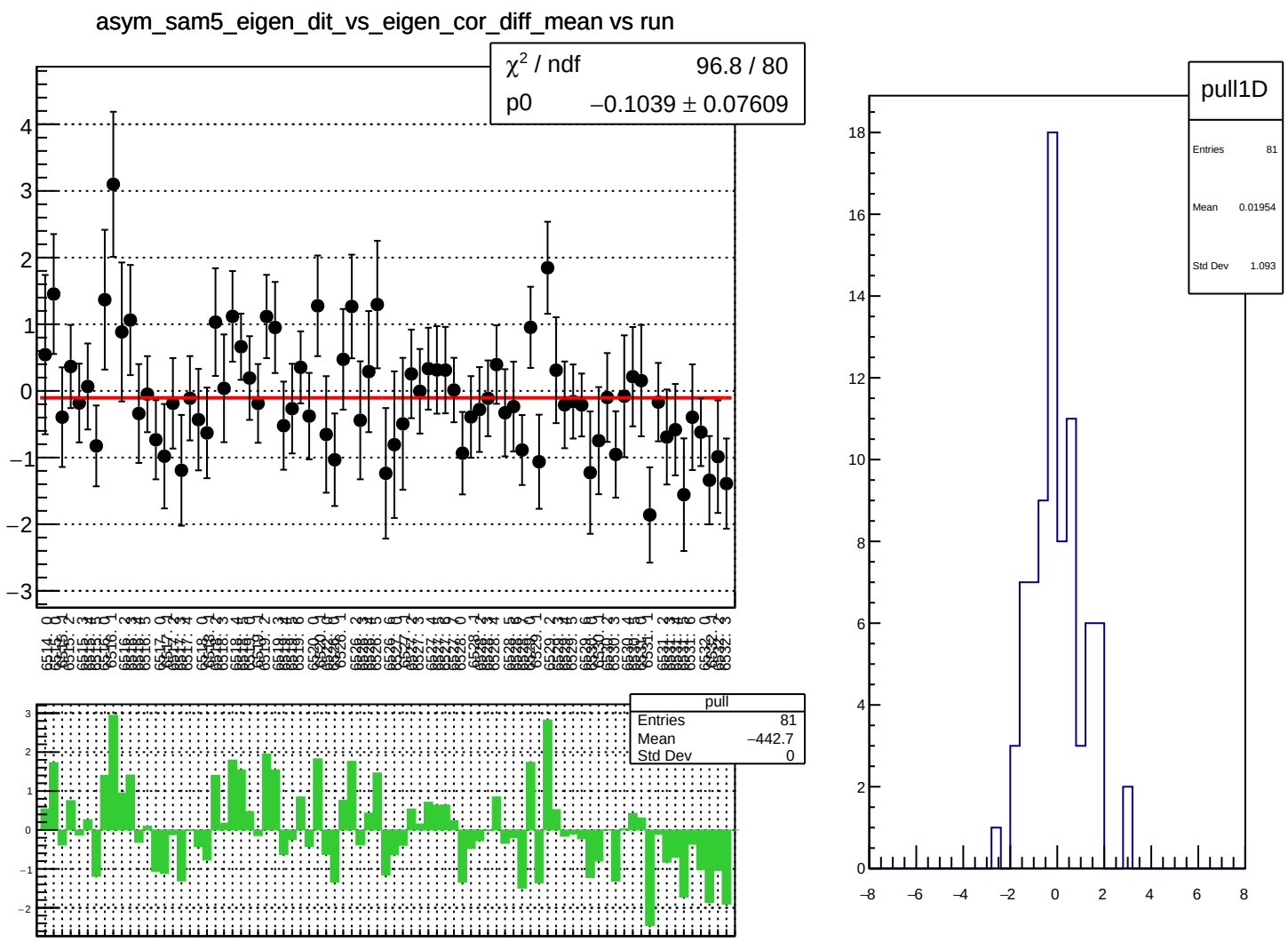

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 63.28 / 80
p0 −7.682e−06 ± 5.15e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 81
Mean −3.764
Std Dev 34.6
2
1
0
−1
−2

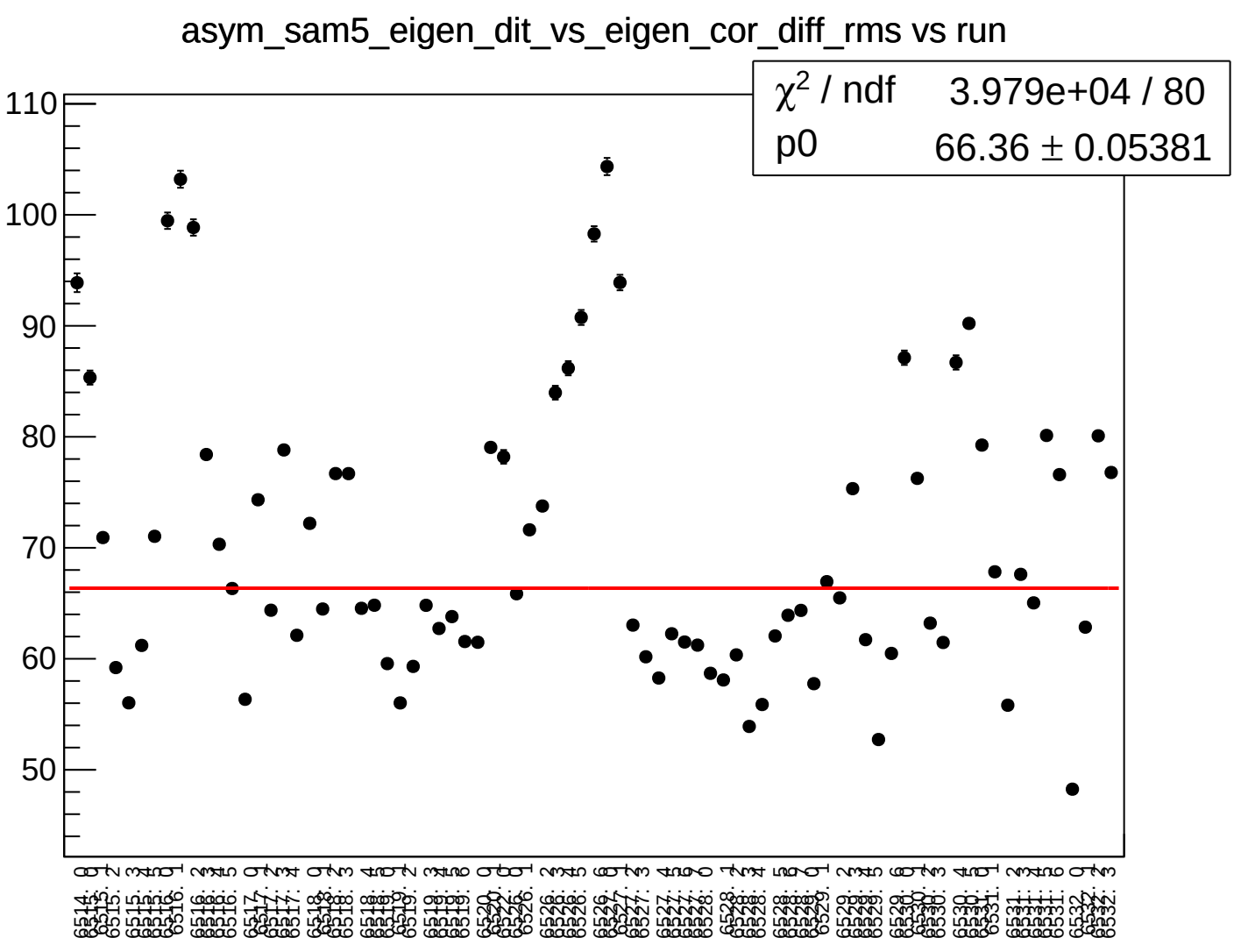

pull1D
Entries 81
Mean 0.01181
Std Dev 0.8838
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

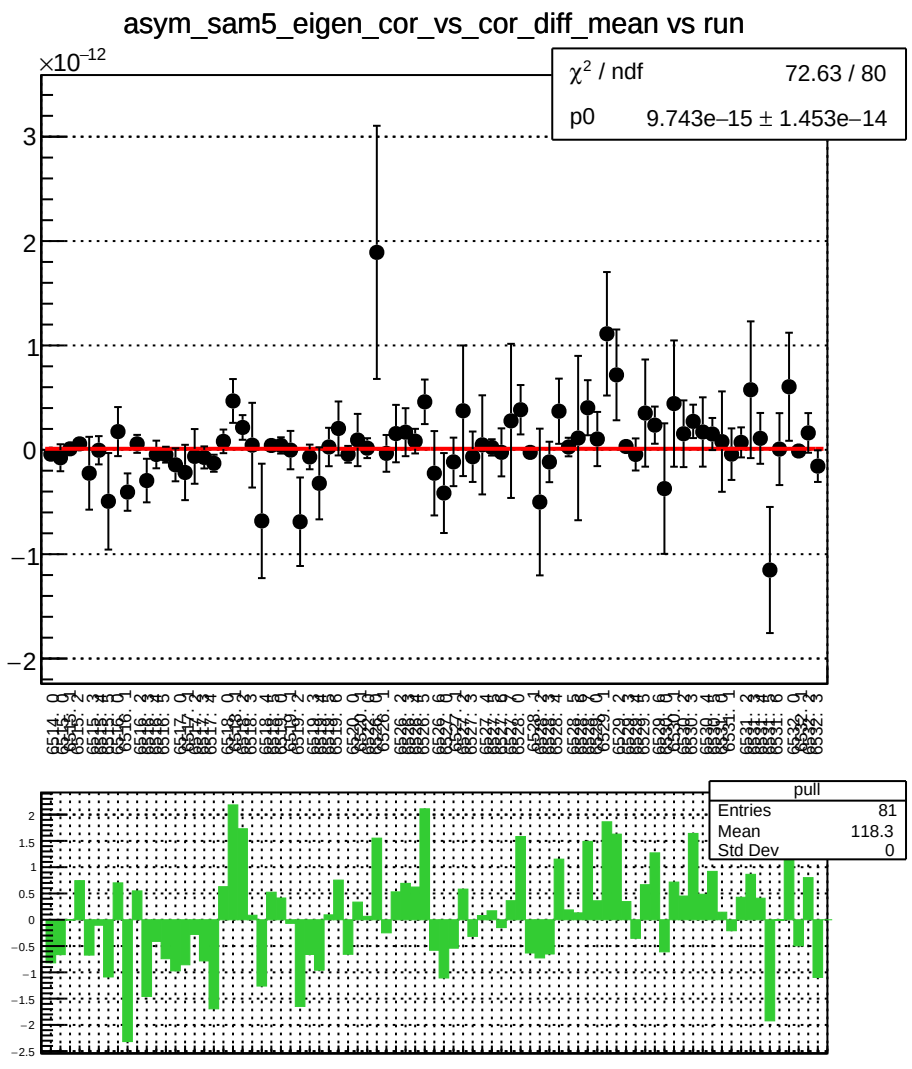

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5346 / 80
p0 0.004542 ± 3.642e−06
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004

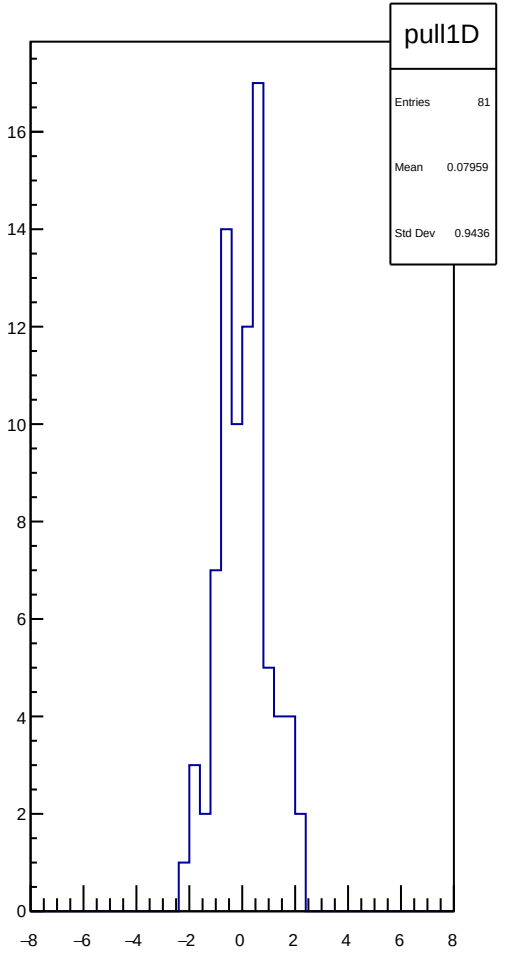

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.8 / 80
p0 −0.1039 ± 0.07609
pull
Entries 81
Mean −442.7
Std Dev 0
pull1D
Entries 81
Mean 0.01954
Std Dev 1.093

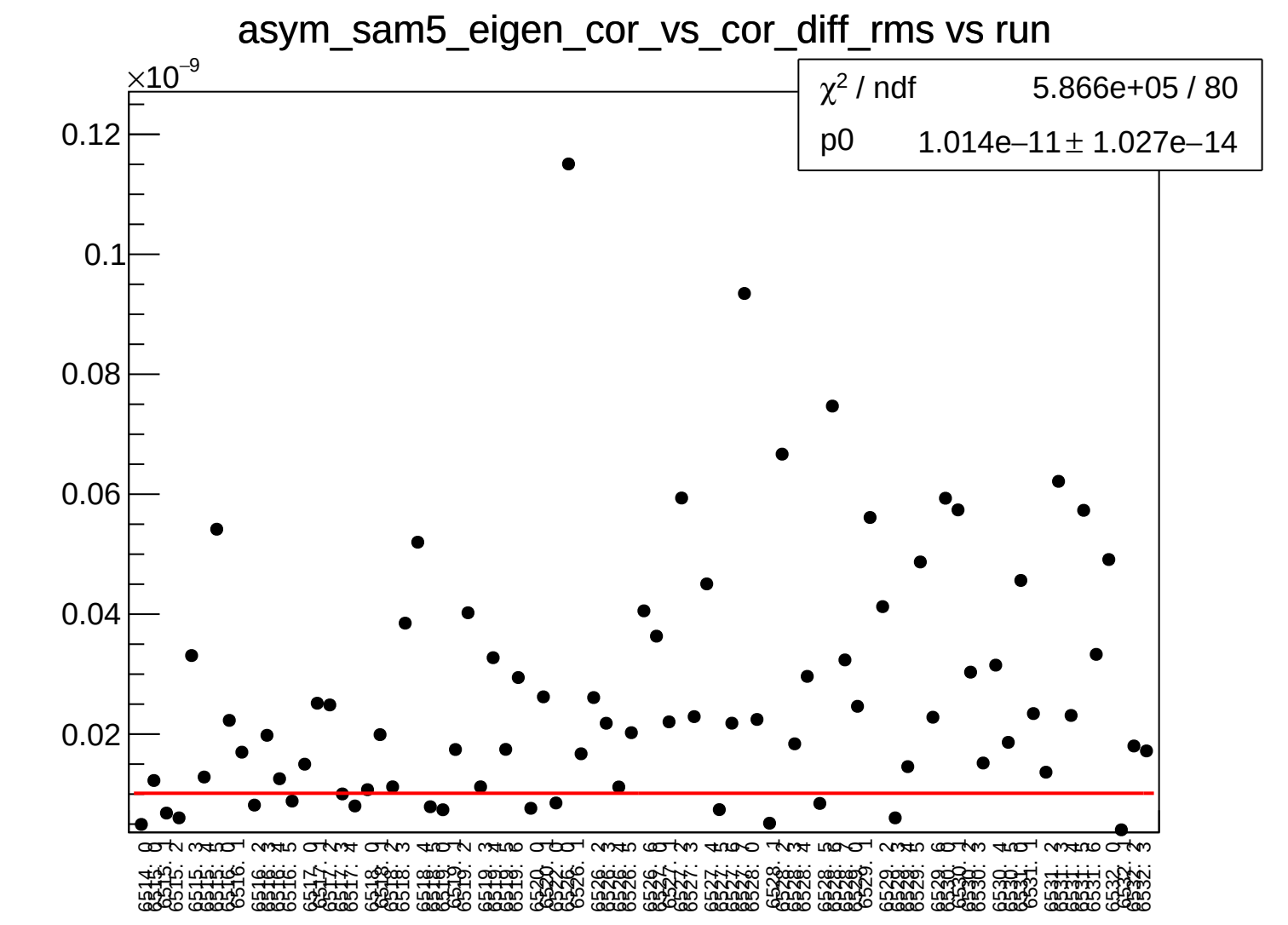

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.979e+04 / 80
p0 66.36 ± 0.05381
110
100
90
80
70
60
50

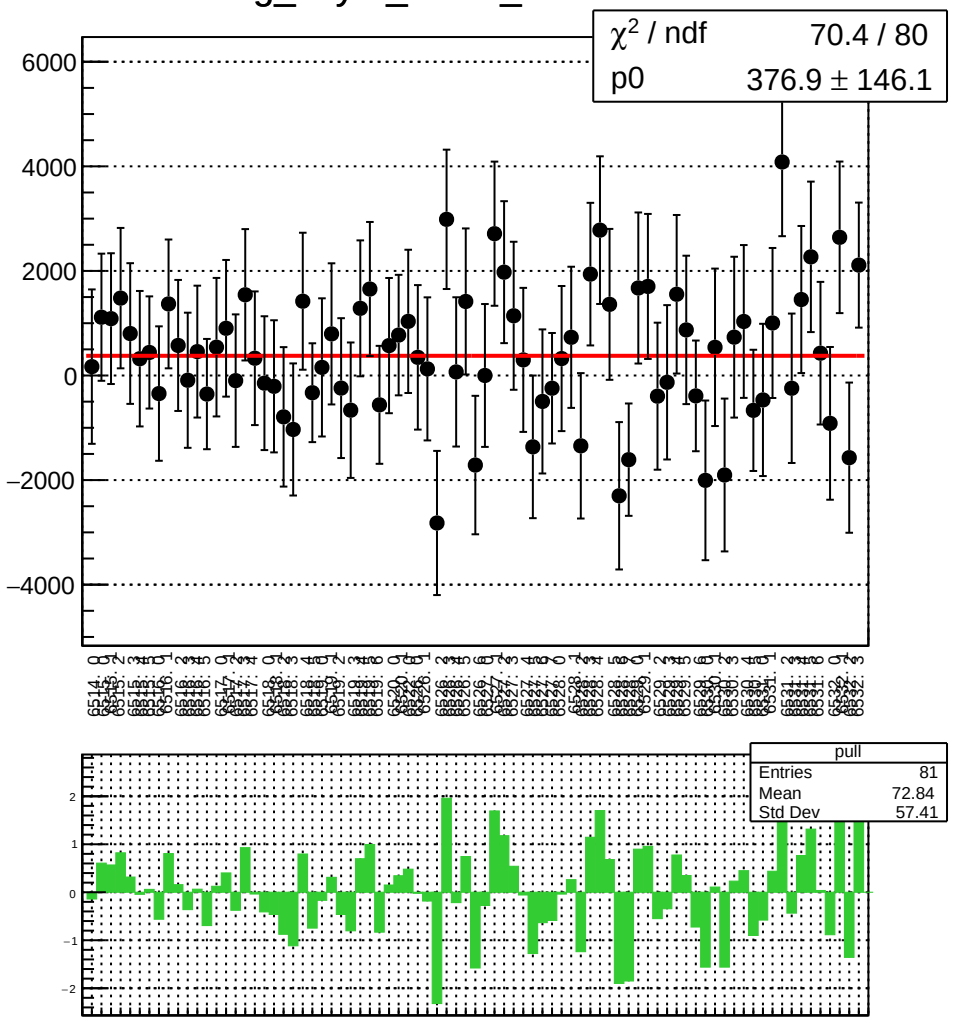

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.8 / 80
p0 −0.1039 ± 0.07609
pull
Entries 81
Mean −442.7
Std Dev 0
pull1D
Entries 81
Mean 0.01954
Std Dev 1.093

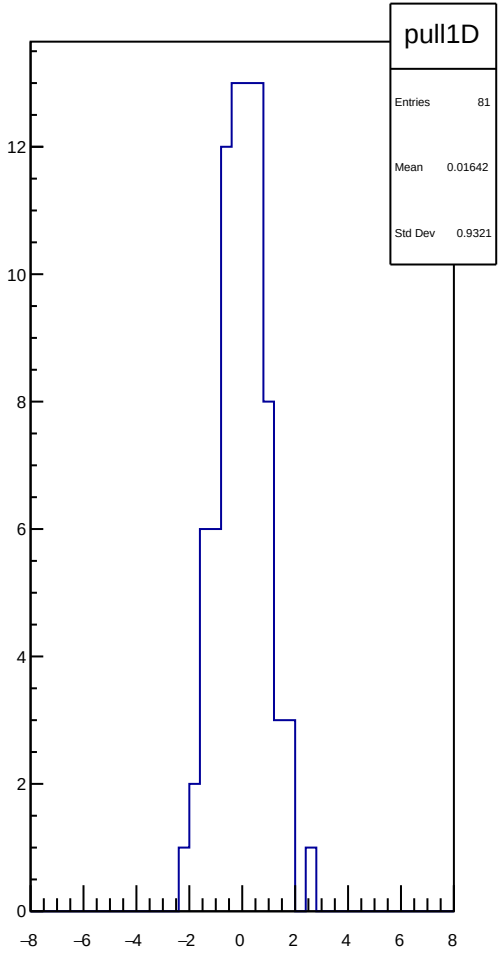

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.979e+04 / 80
p0 66.36 ± 0.05381
110
100
90
80
70
60
50

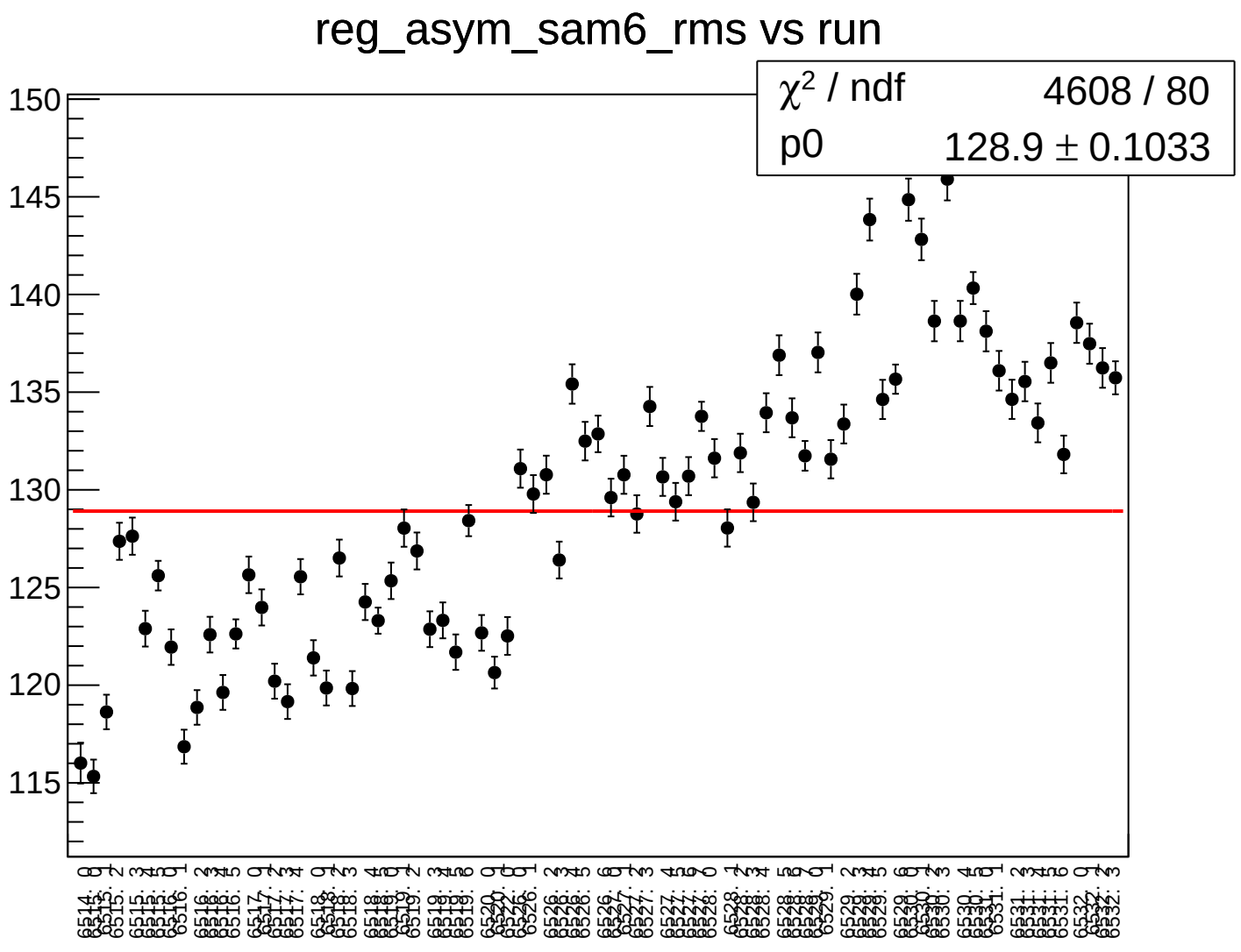

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.63 / 80
p0 9.743e−15 ± 1.453e−14
pull
Entries 81
Mean 118.3
Std Dev 0

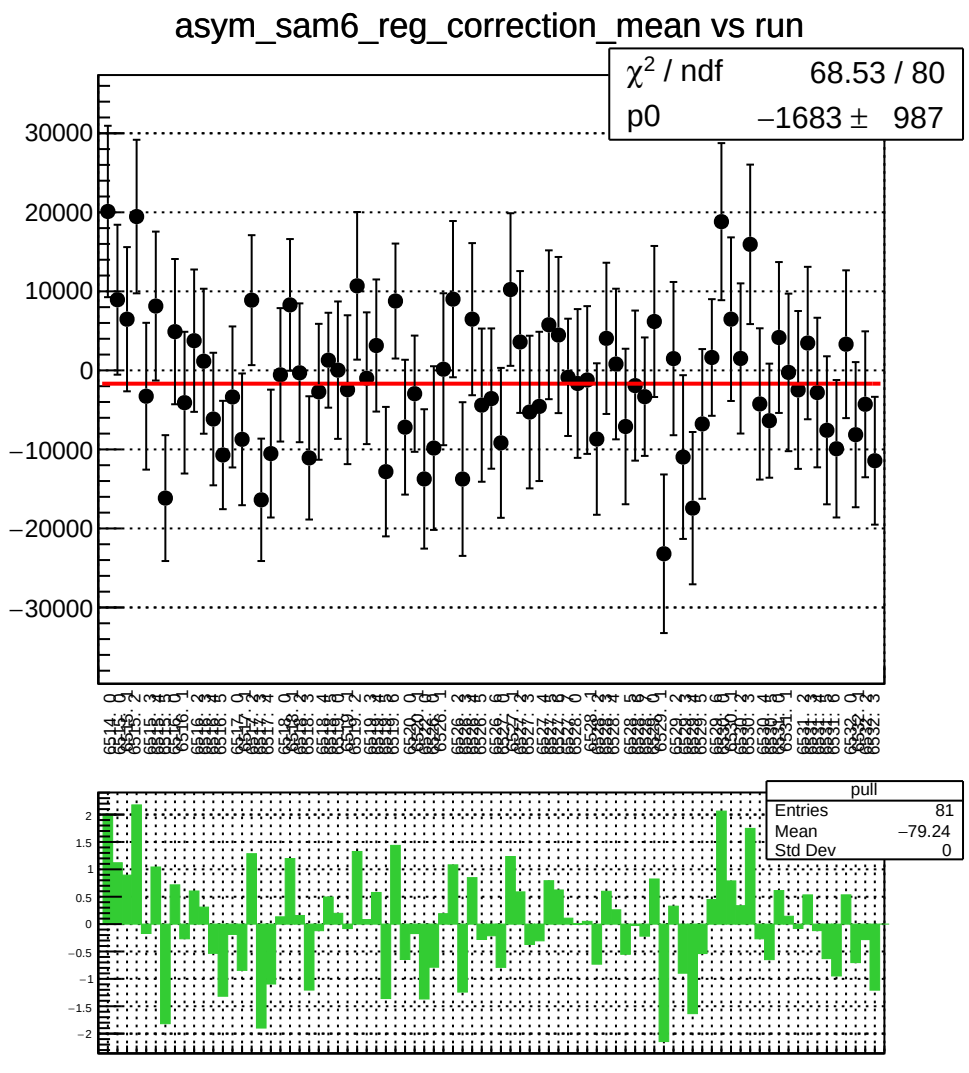

pull1D
Entries 81
Mean 0.07959
Std Dev 0.9436

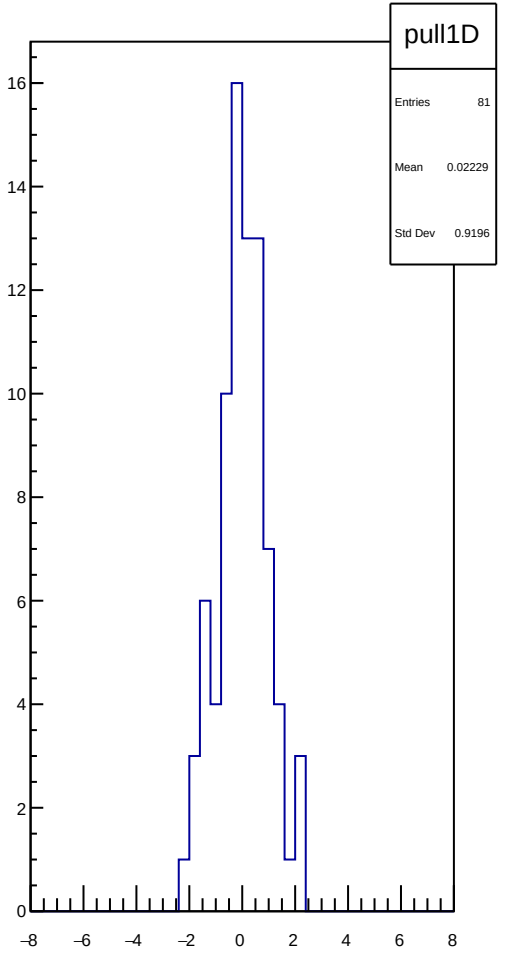

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.866e+05 / 80
p0 1.014e−11 ± 1.027e−14
0.12
0.1
0.08
0.06
0.04
0.02

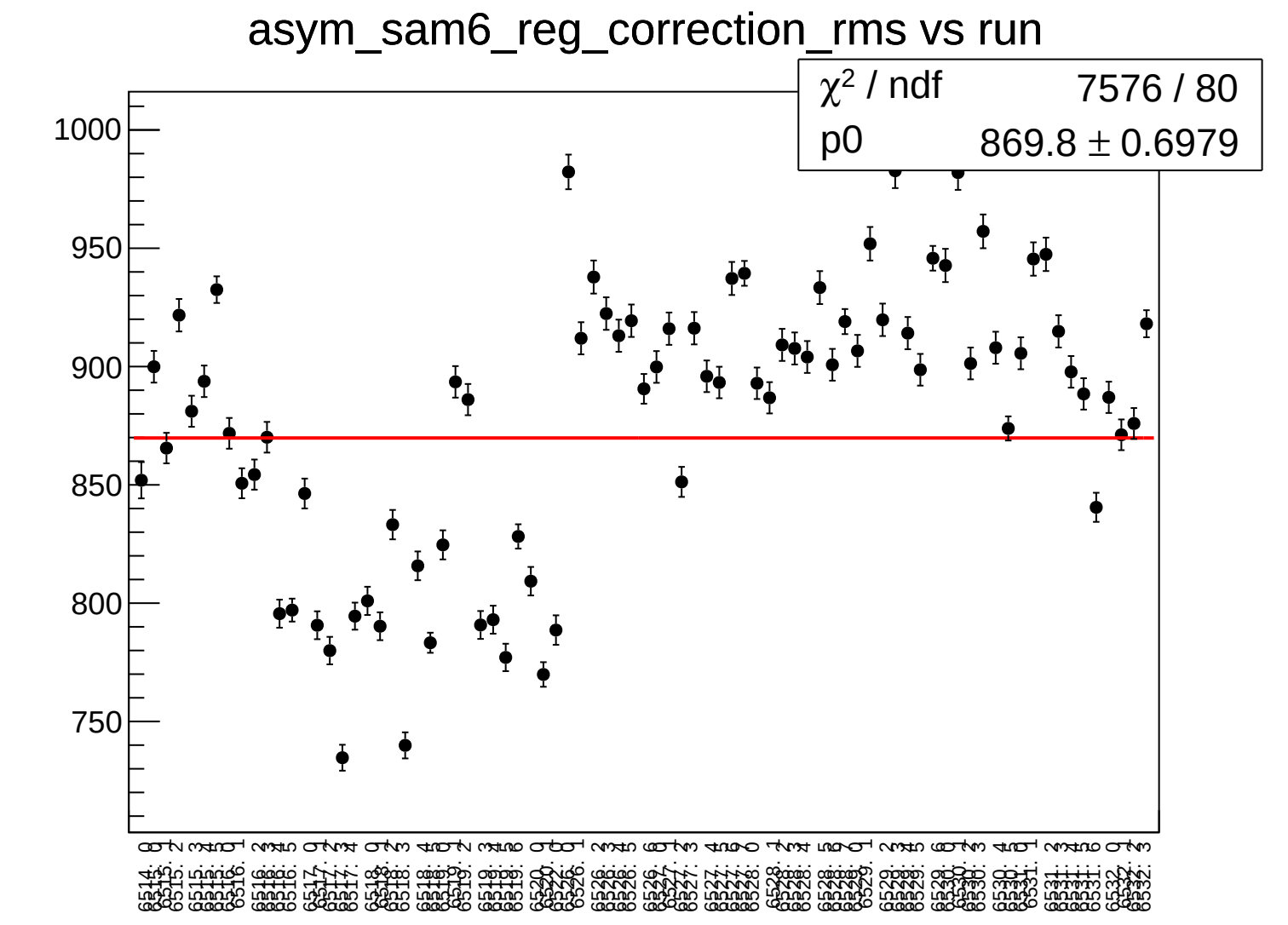

reg_asym_sam6_mean vs run
χ^2 / ndf 70.4 / 80
p0 376.9 ± 146.1
pull
Entries 81
Mean 72.84
Std Dev 57.41

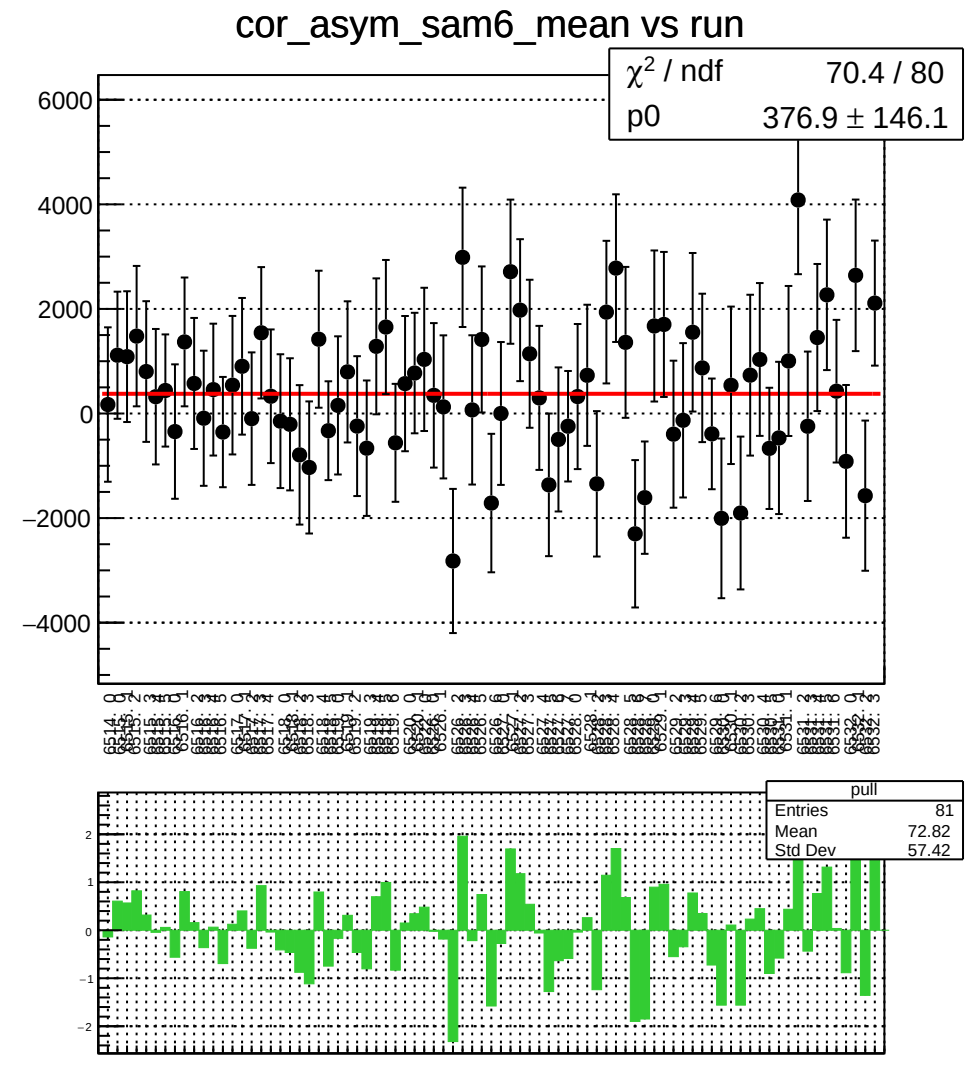

pull1D
Entries 81
Mean 0.01642
Std Dev 0.9321

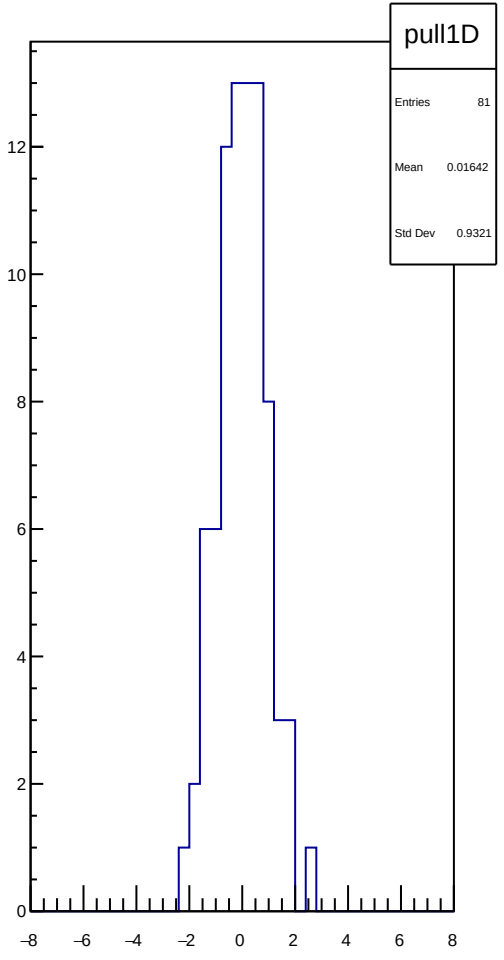

reg_asym_sam6_rms vs run
χ² / ndf 4608 / 80
p0 128.9 ± 0.1033
150
145
140
135
130
125
120
115

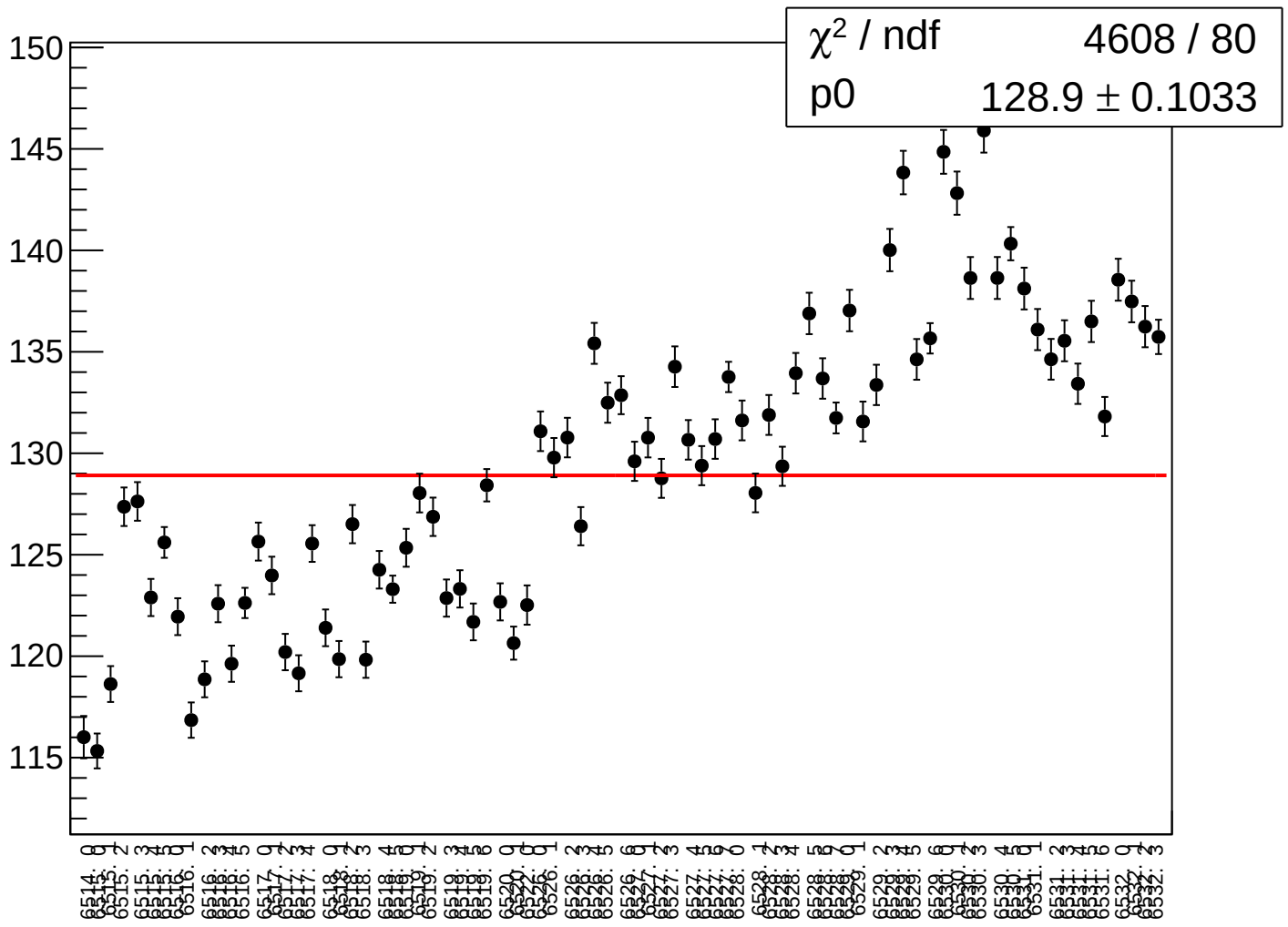

asym_sam6_reg_correction_mean vs run
χ² / ndf 68.53 / 80
p0 −1683 ± 987
pull
Entries 81
Mean −79.24
Std Dev 0

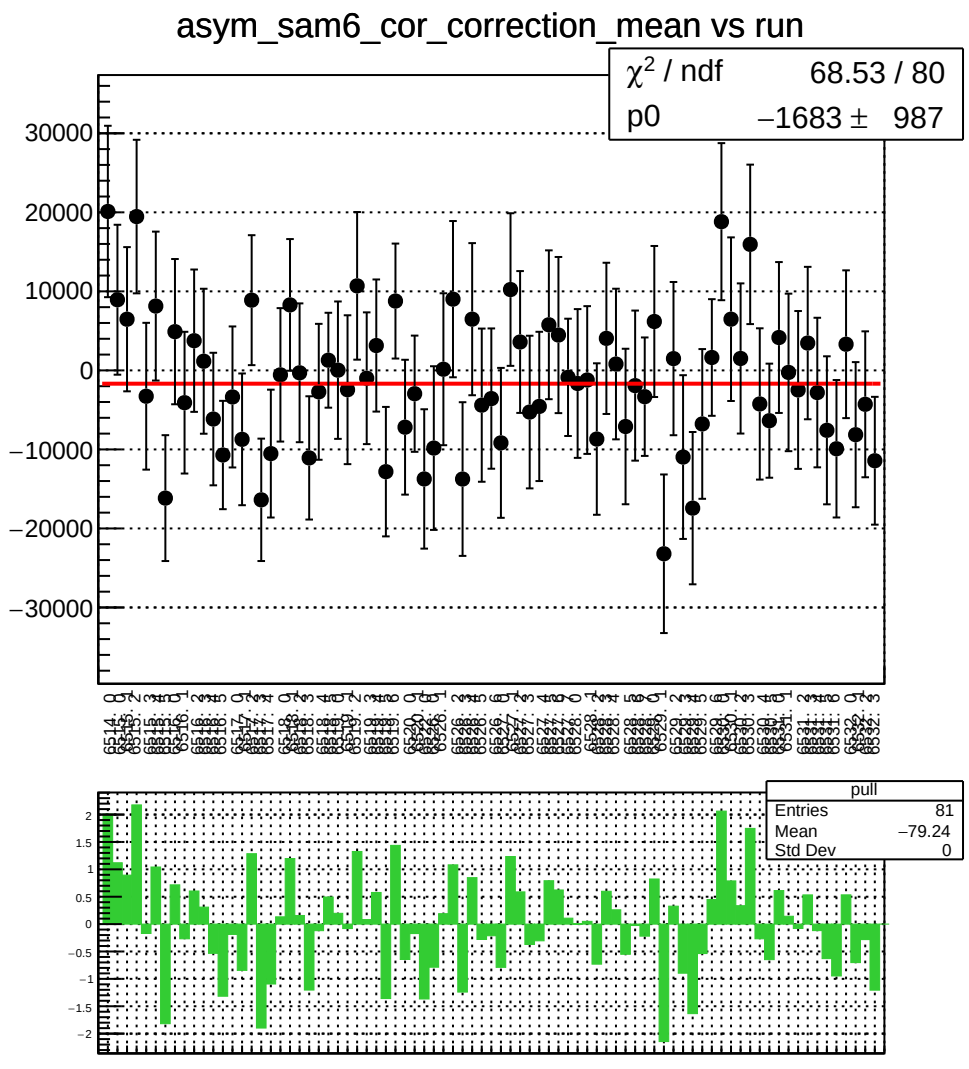

pull1D
Entries 81
Mean 0.02229
Std Dev 0.9196

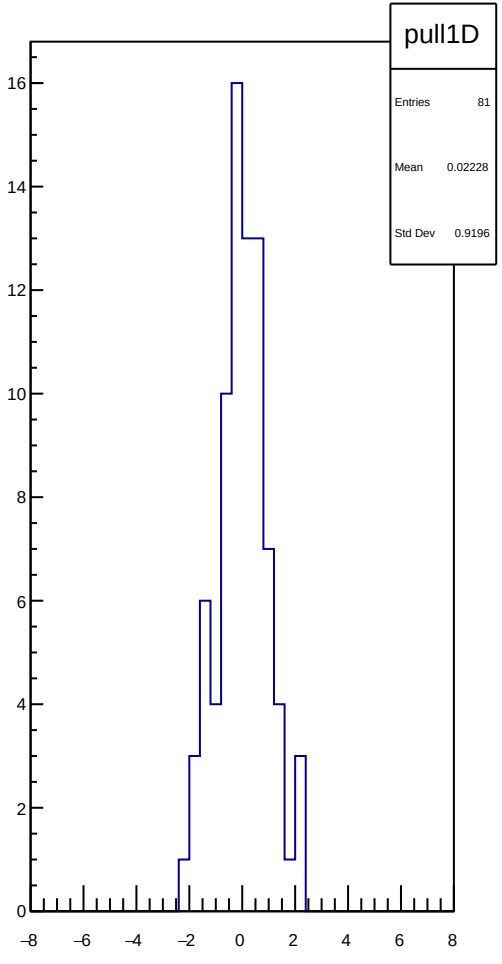

asym_sam6_reg_correction_rms vs run
χ² / ndf 7576 / 80
p0 869.8 ± 0.6979
1000
950
900
850
800
750

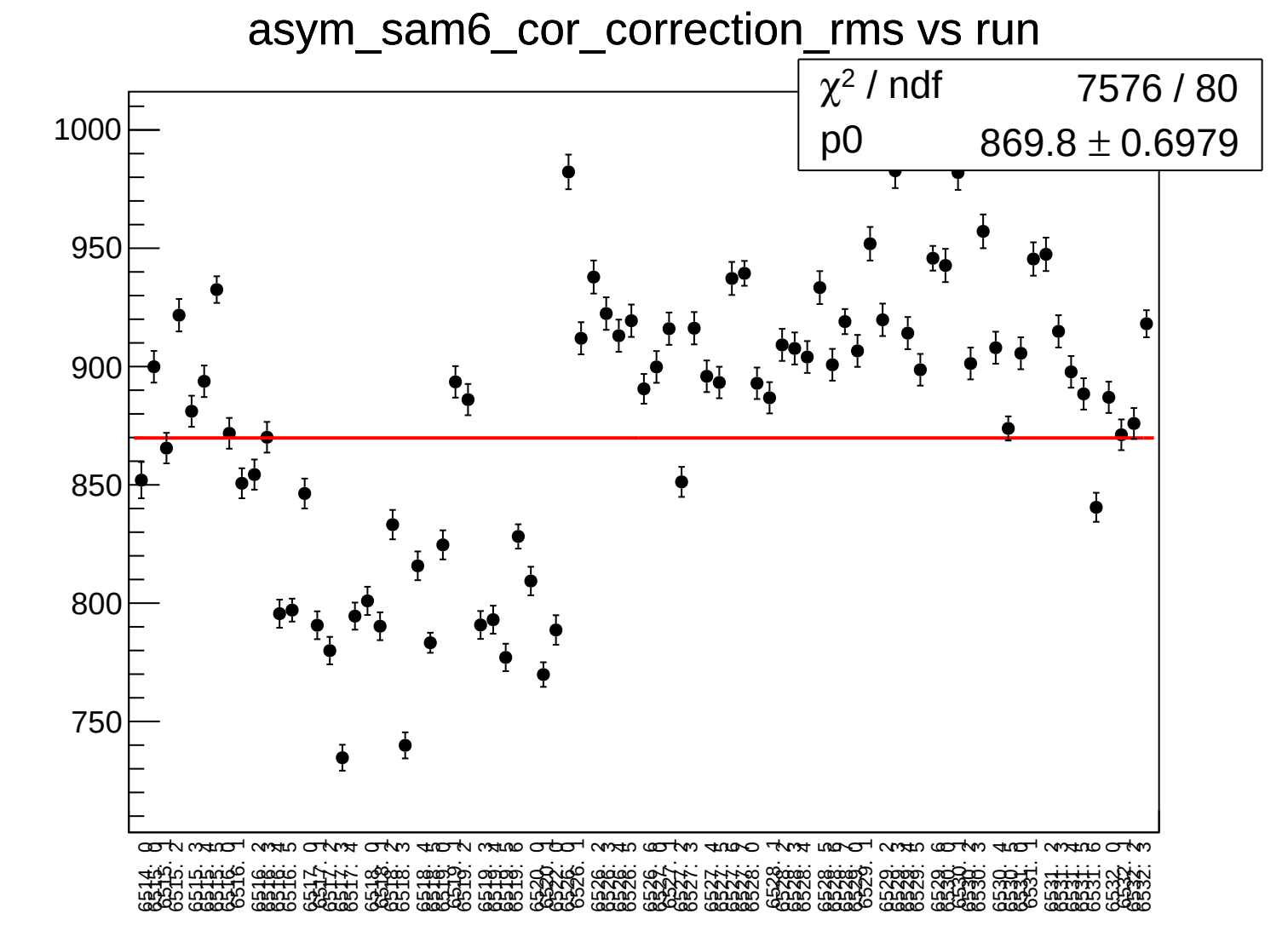

cor_asym_sam6_mean vs run
χ² / ndf 70.4 / 80
p0 376.9 ± 146.1
pull
Entries 81
Mean 72.82
Std Dev 57.42

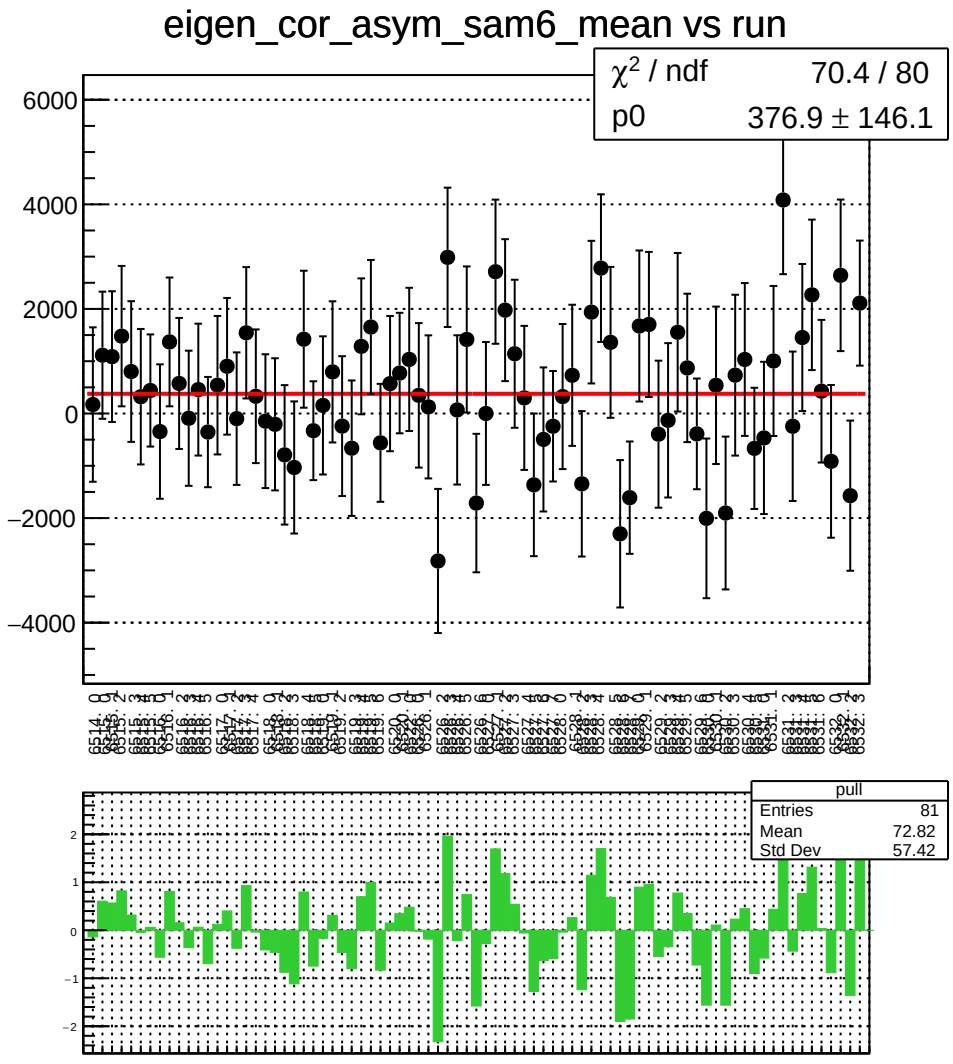

pull1D
Entries 81
Mean 0.01642
Std Dev 0.9321

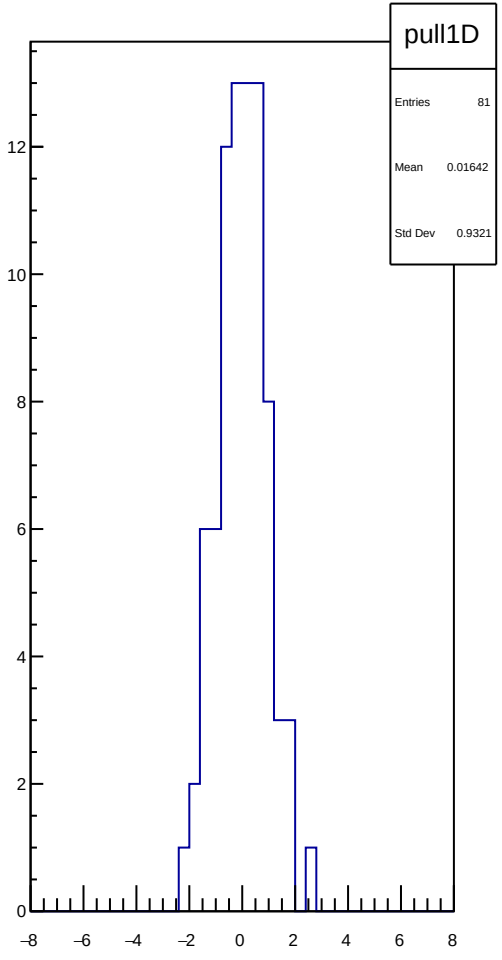

cor_asym_sam6_rms vs run
χ² / ndf 4608 / 80
p0 128.9 ± 0.1033
150
145
140
135
130
125
120
115

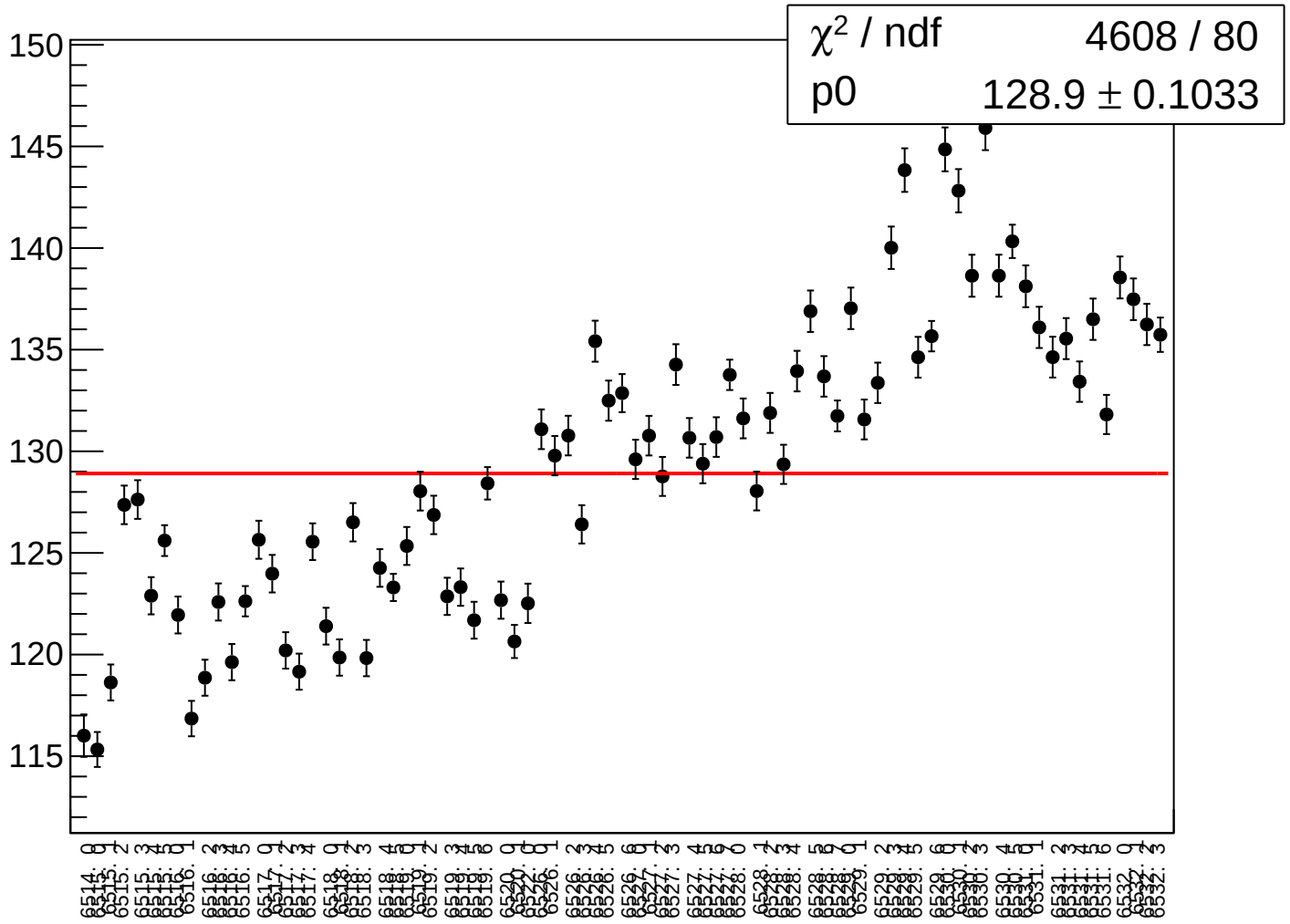

asym_sam6_cor_correction_mean vs run
χ² / ndf 68.53 / 80
p0 −1683 ± 987
pull
Entries 81
Mean −79.24
Std Dev 0

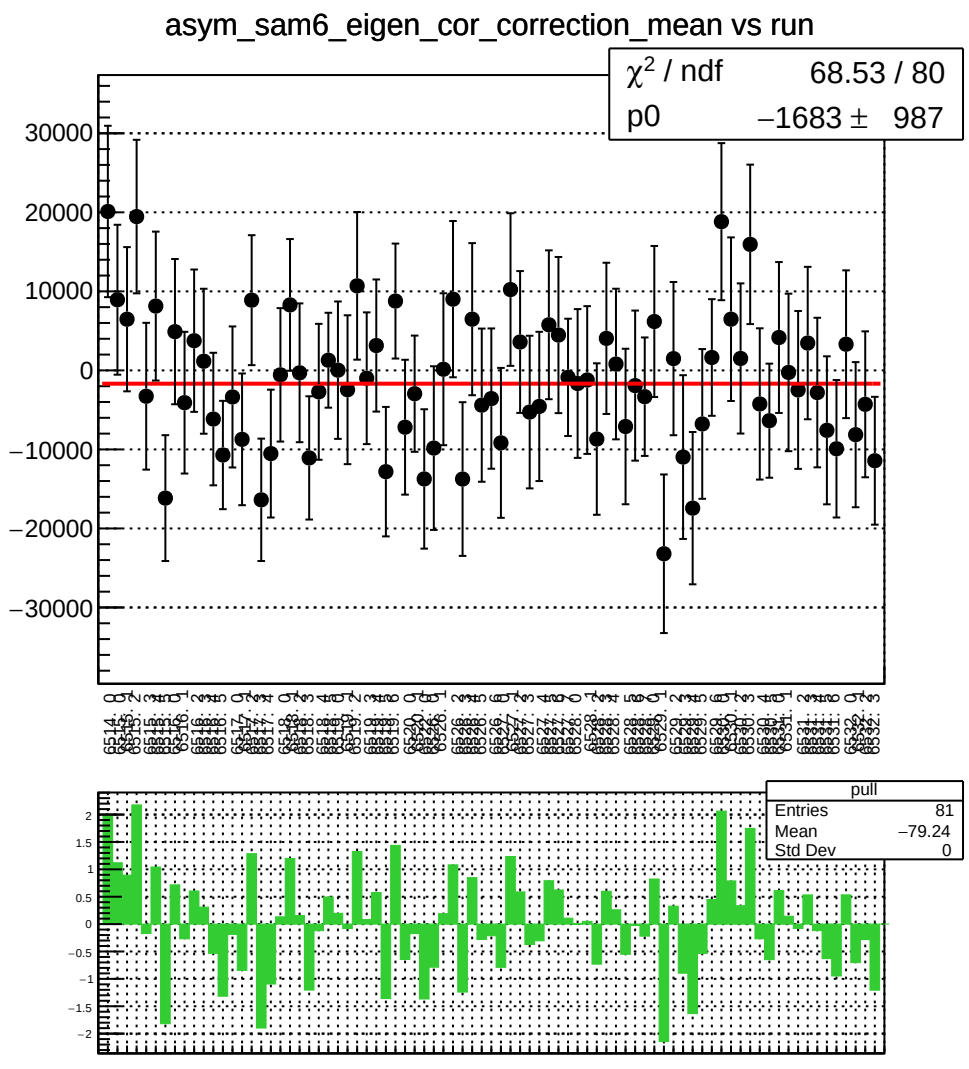

pull1D
Entries 81
Mean 0.02228
Std Dev 0.9196

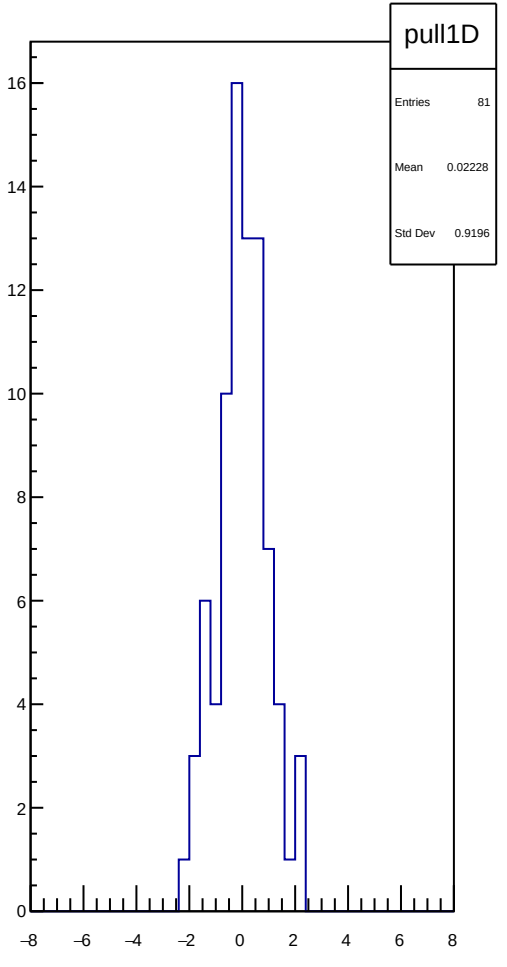

asym_sam6_cor_correction_rms vs run
χ² / ndf 7576 / 80
p0 869.8 ± 0.6979
1000
950
900
850
800
750

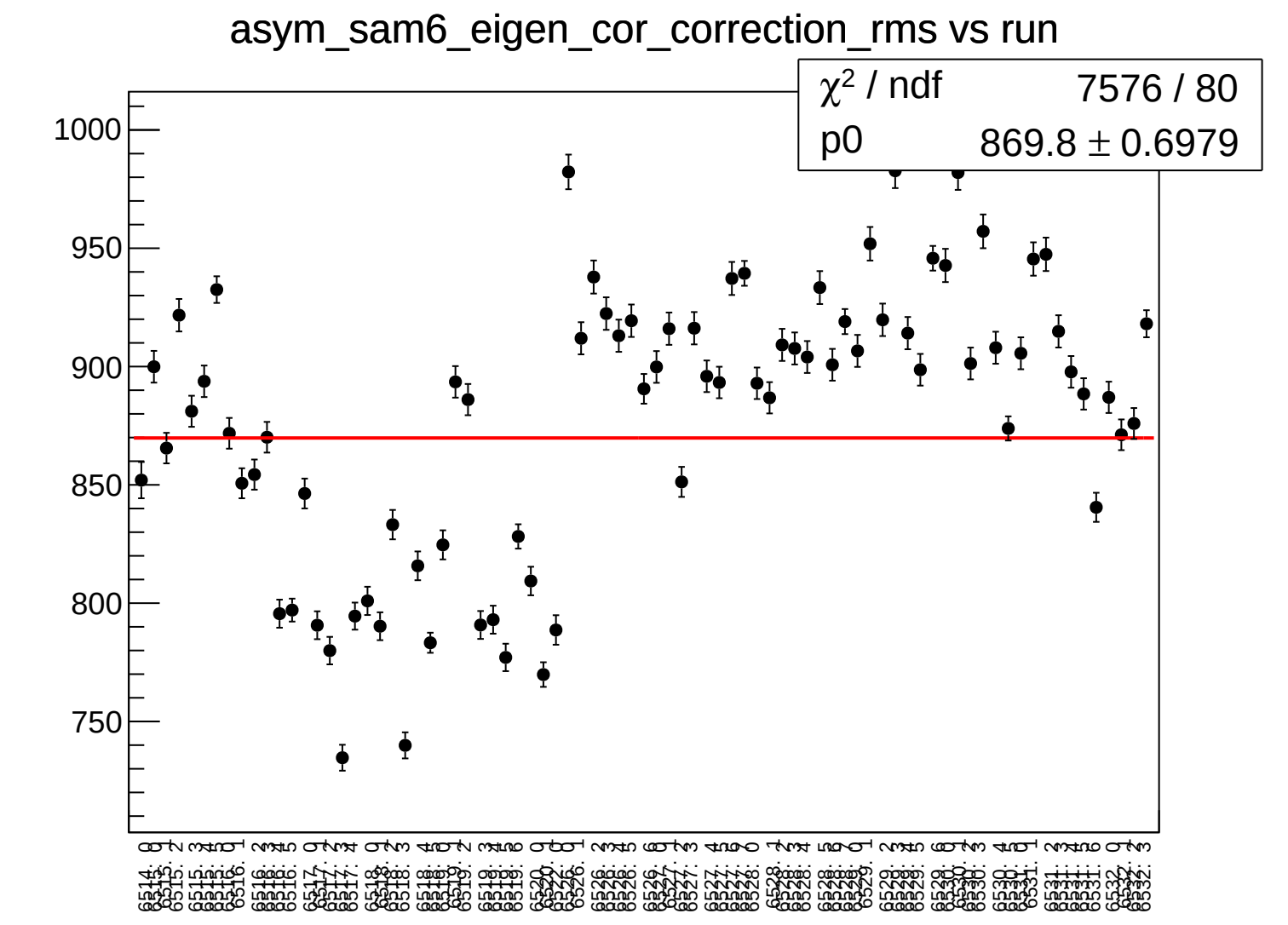

eigen_cor_asym_sam6_mean vs run
χ² / ndf 70.4 / 80
p0 376.9 ± 146.1
6000
4000
2000
0
−2000
−4000
pull
Entries 81
Mean 72.82
Std Dev 57.42
2
1
0
−1
−2

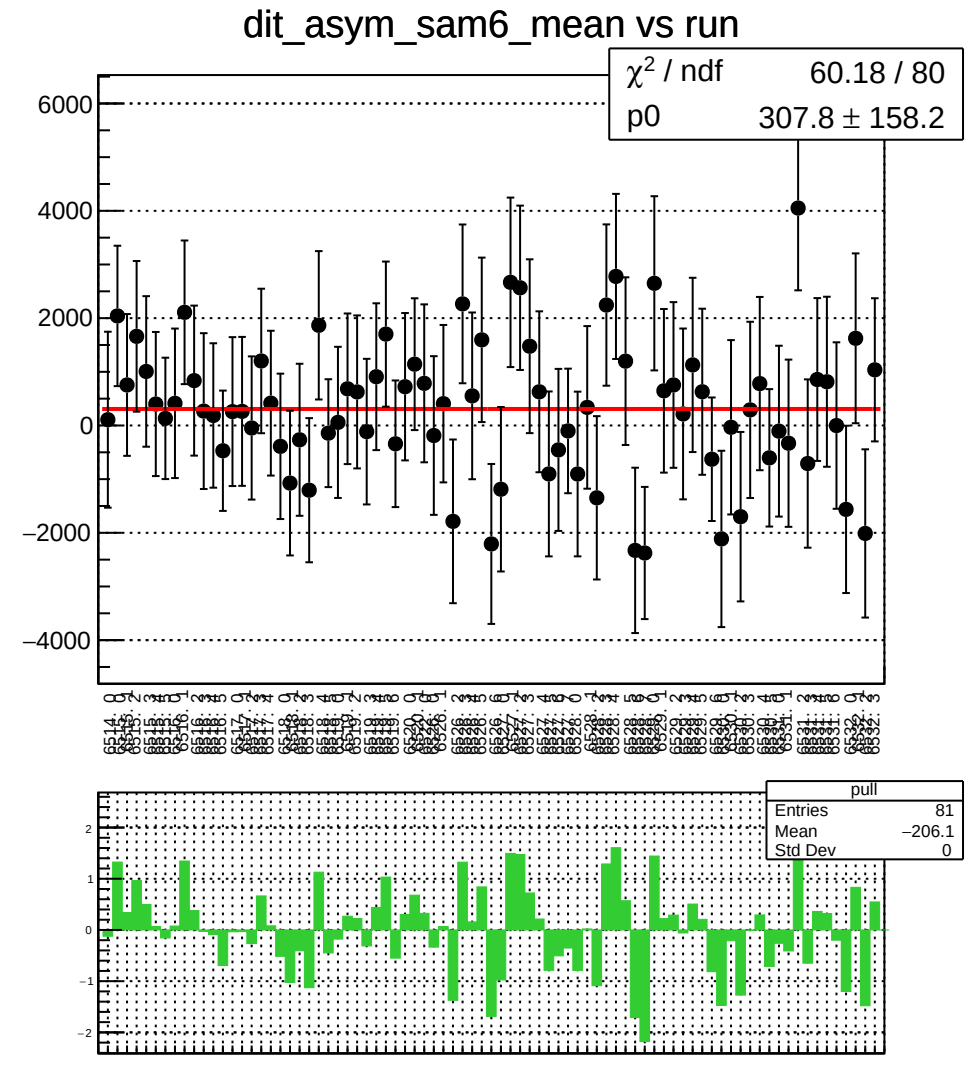

pull1D
Entries 81
Mean 0.01642
Std Dev 0.9321
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

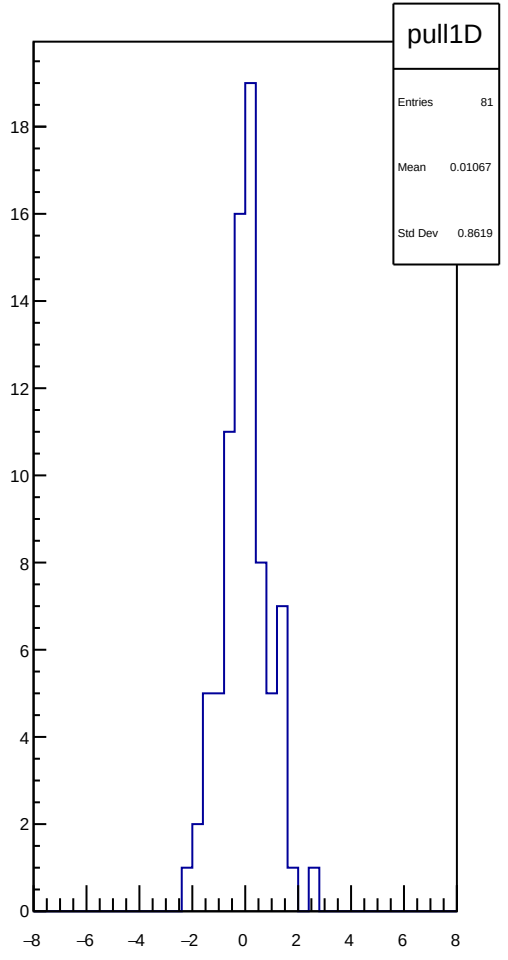

eigen_cor_asym_sam6_rms vs run
χ² / ndf 4608 / 80
p0 128.9 ± 0.1033
150
145
140
135
130
125
120
115

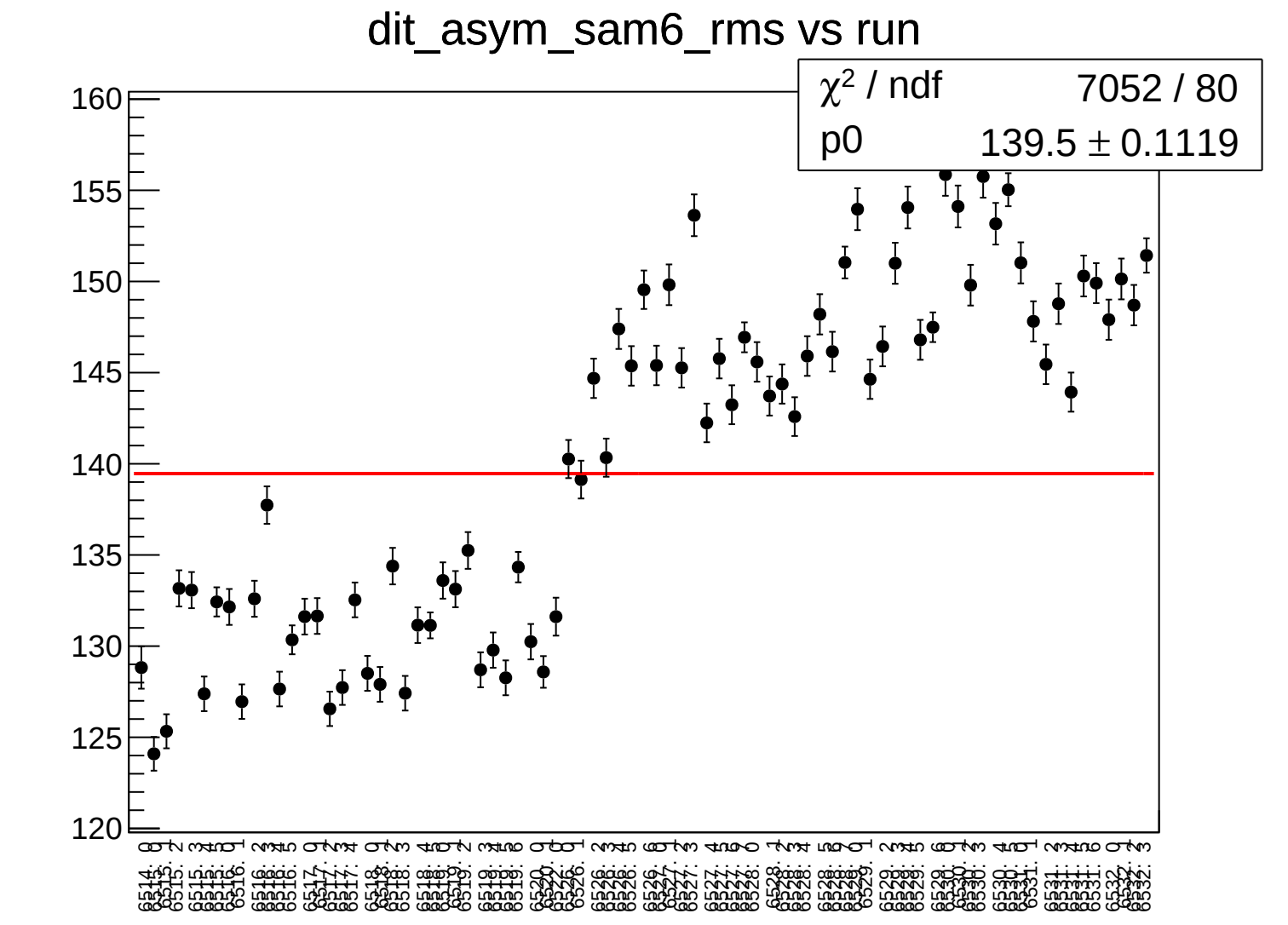

asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 68.53 / 80
p0 −1683 ± 987
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean −79.24
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

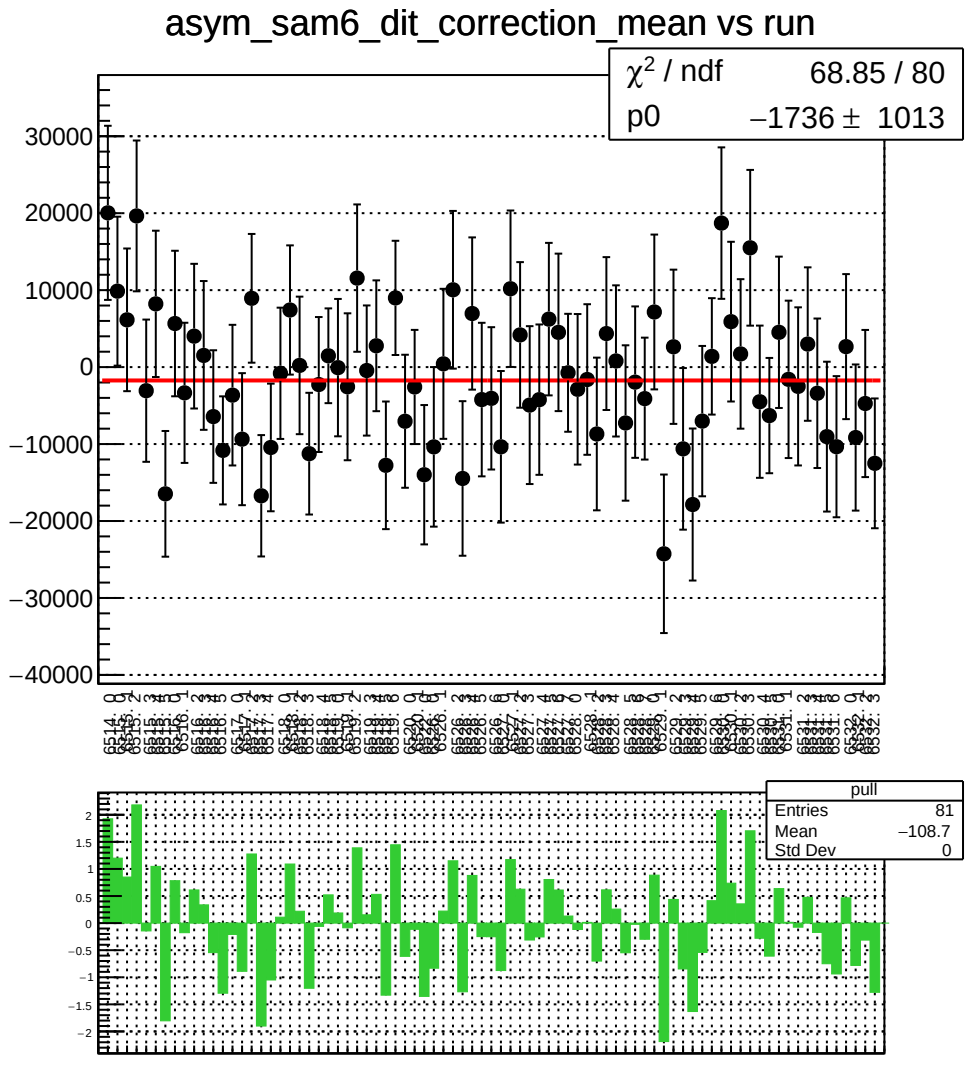

pull1D
Entries 81
Mean 0.02228
Std Dev 0.9196
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

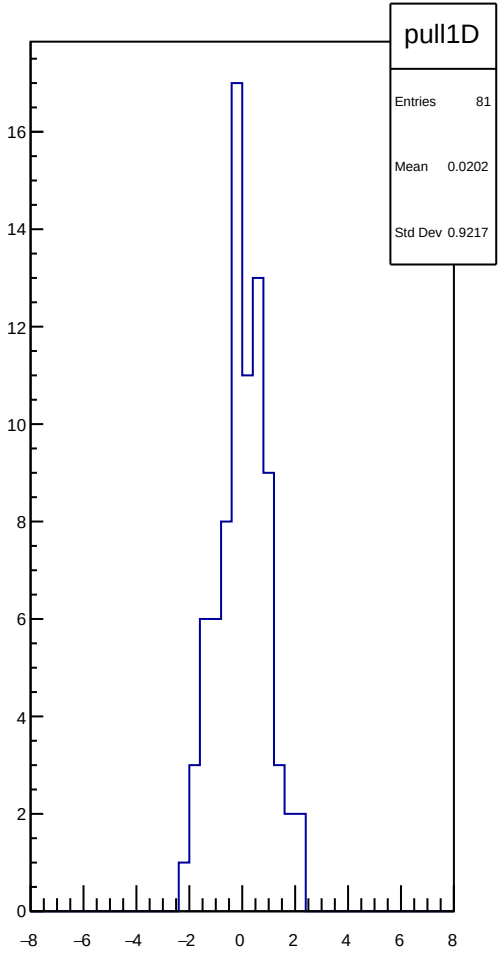

asym_sam6_eigen_cor_correction_rms vs run
χ² / ndf 7576 / 80
p0 869.8 ± 0.6979
1000
950
900
850
800
750

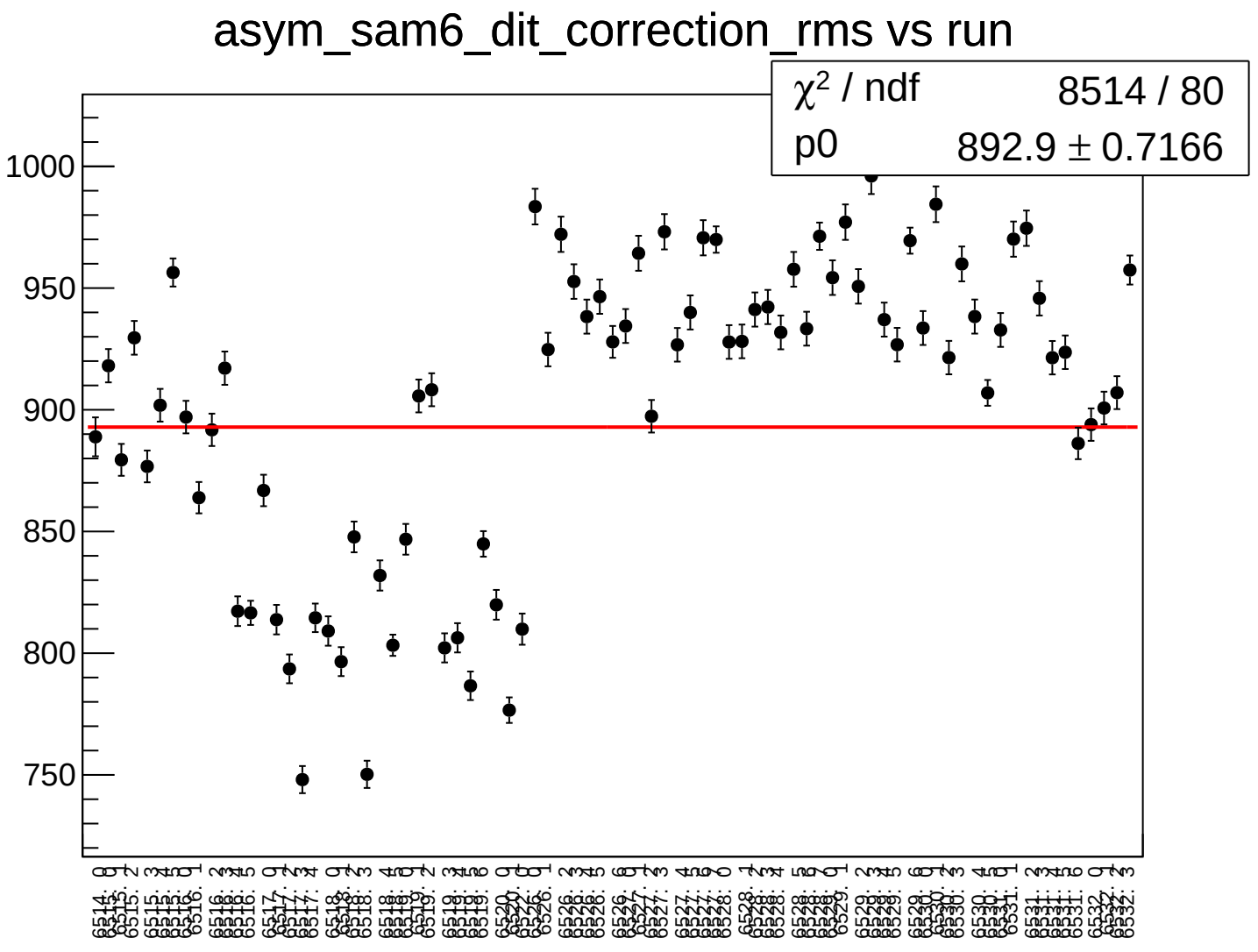

dit_asym_sam6_mean vs run
χ² / ndf 60.18 / 80
p0 307.8 ± 158.2
pull
Entries 81
Mean −206.1
Std Dev 0

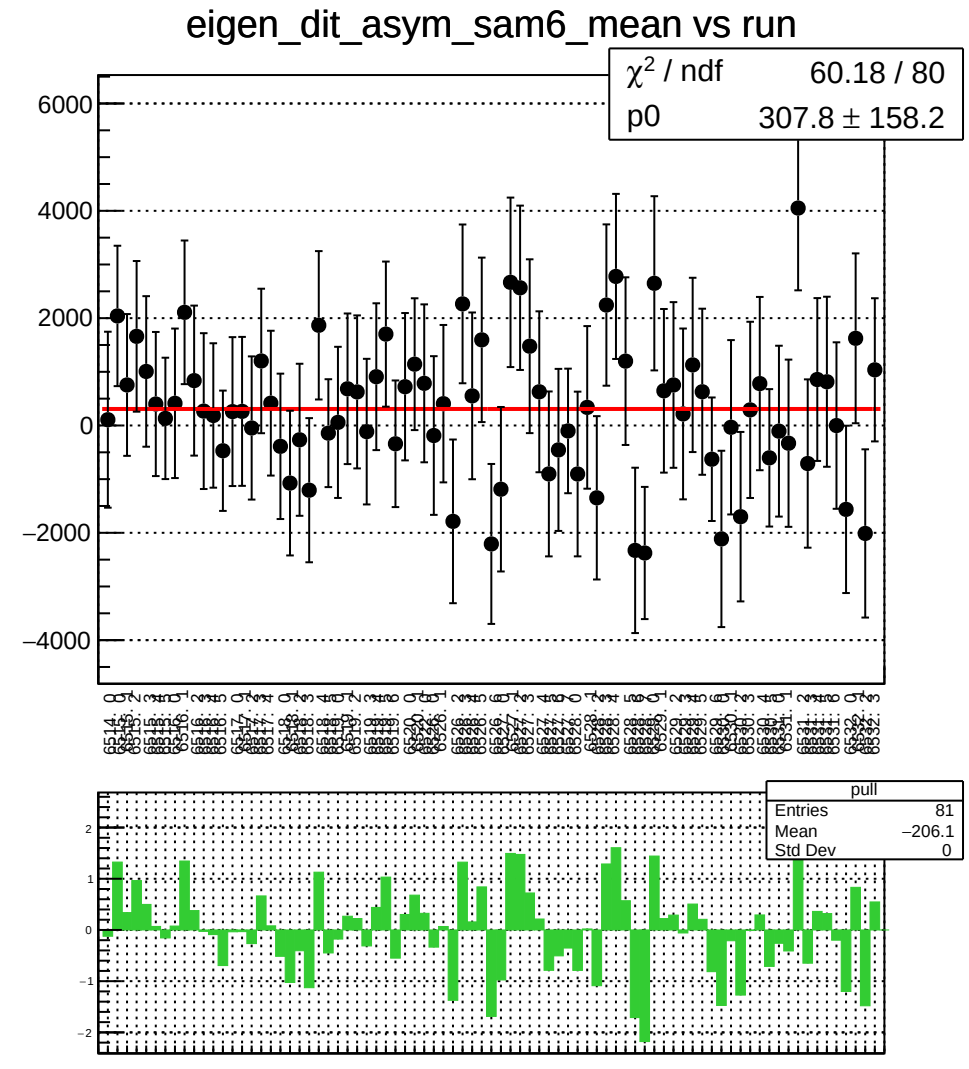

pull1D
Entries 81
Mean 0.01067
Std Dev 0.8619

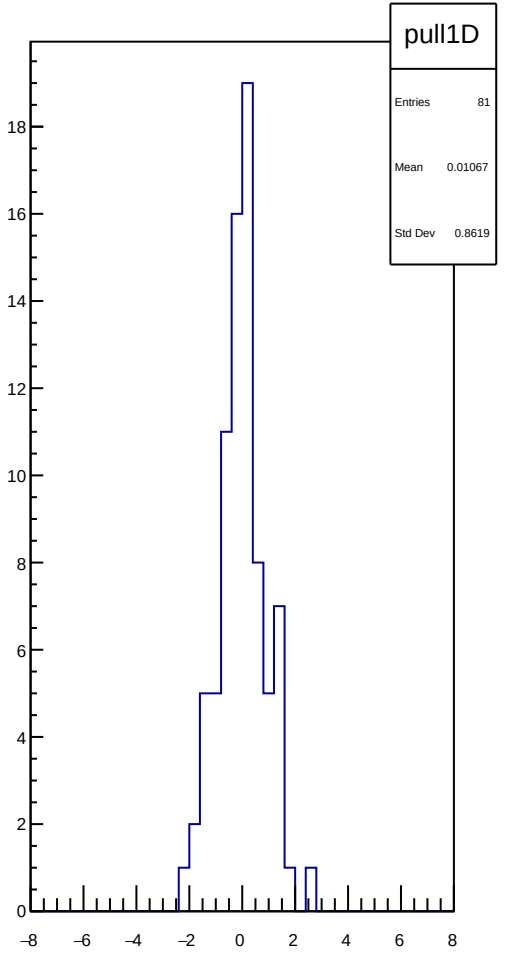

dit_asym_sam6_rms vs run
χ² / ndf 7052 / 80
p0 139.5 ± 0.1119
160
155
150
145
140
135
130
125
120

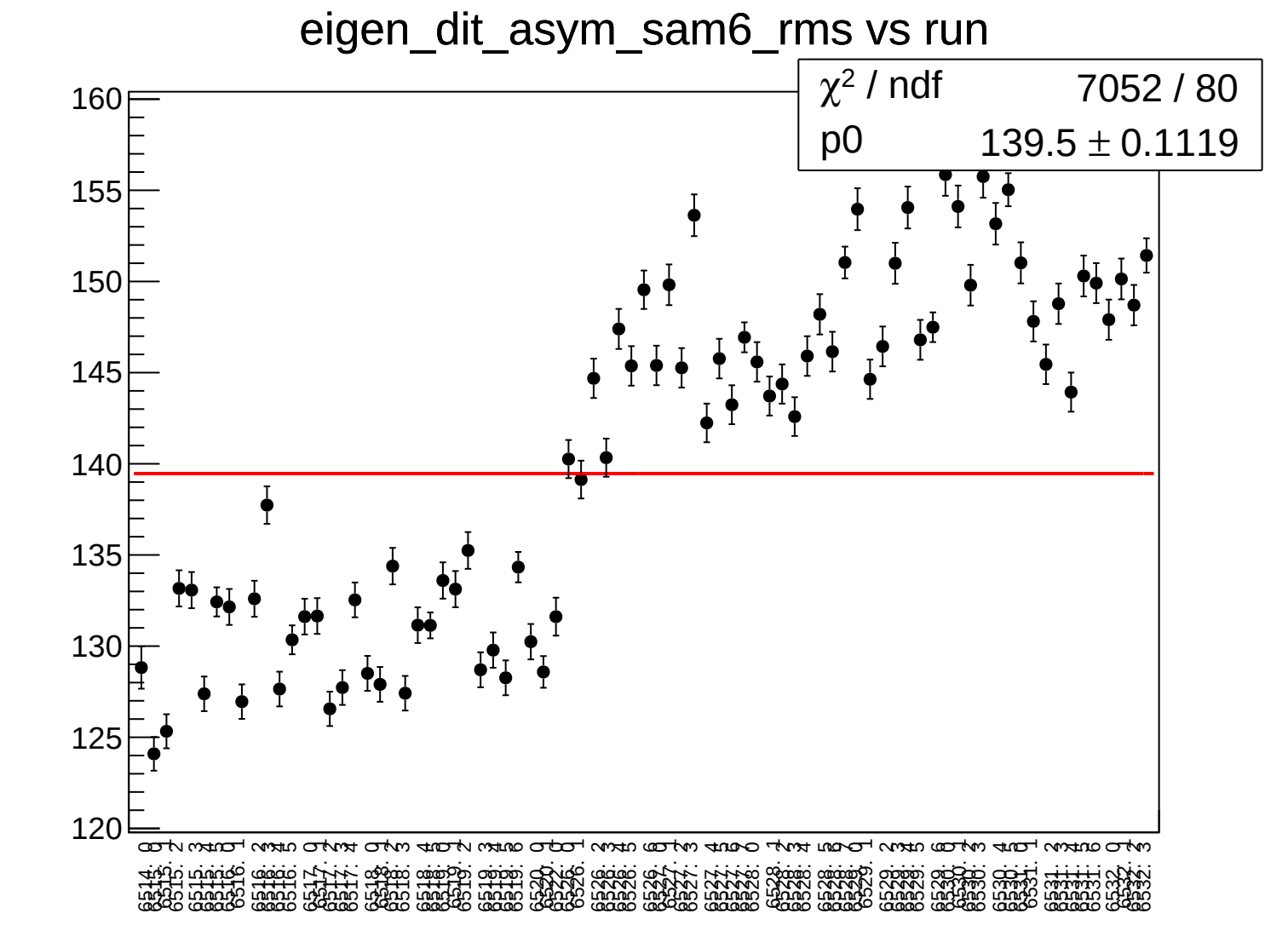

asym_sam6_dit_correction_mean vs run
χ² / ndf 68.85 / 80
p0 −1736 ± 1013
pull
Entries 81
Mean −108.7
Std Dev 0

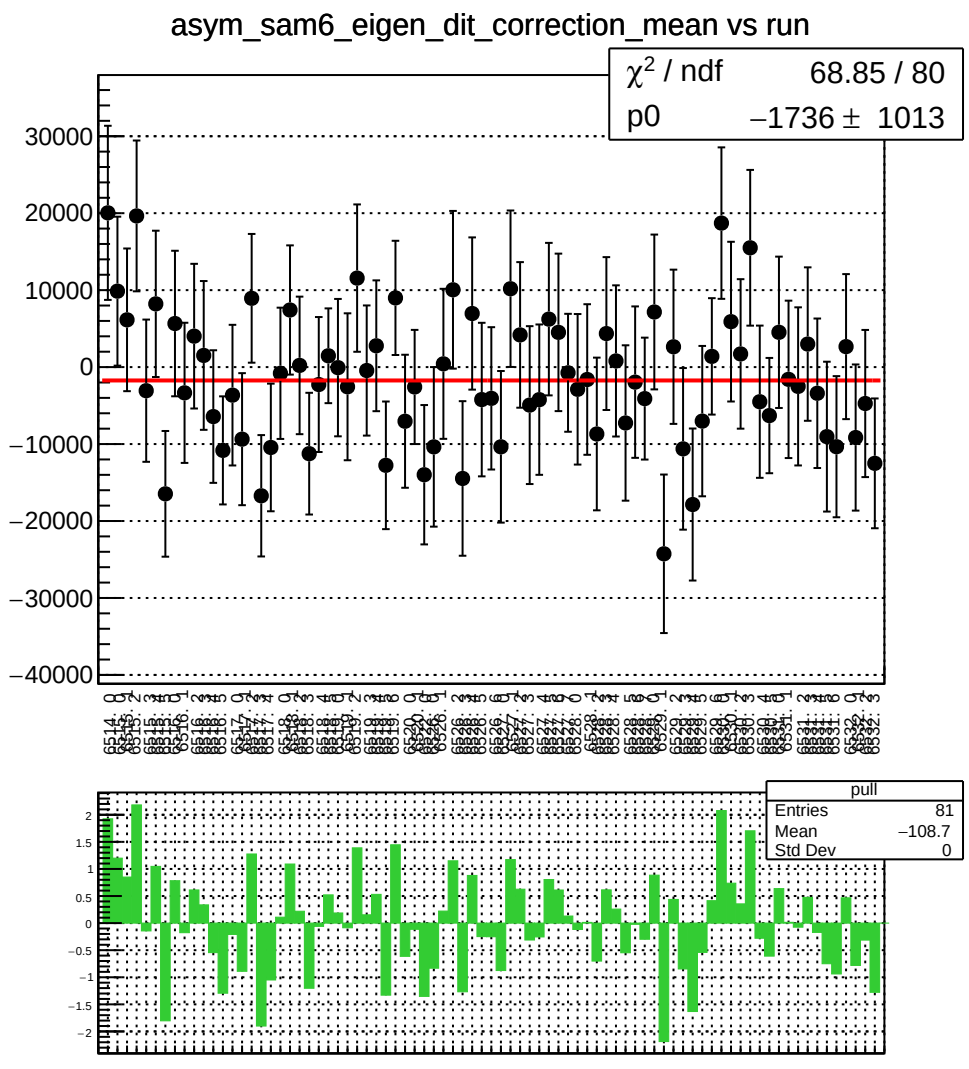

pull1D
Entries 81
Mean 0.0202
Std Dev 0.9217

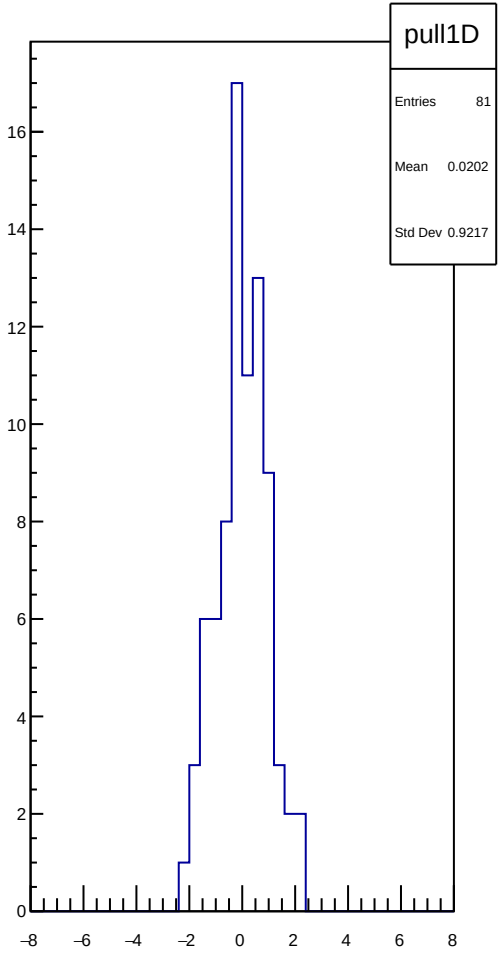

asym_sam6_dit_correction_rms vs run
χ² / ndf 8514 / 80
p0 892.9 ± 0.7166
1000
950
900
850
800
750

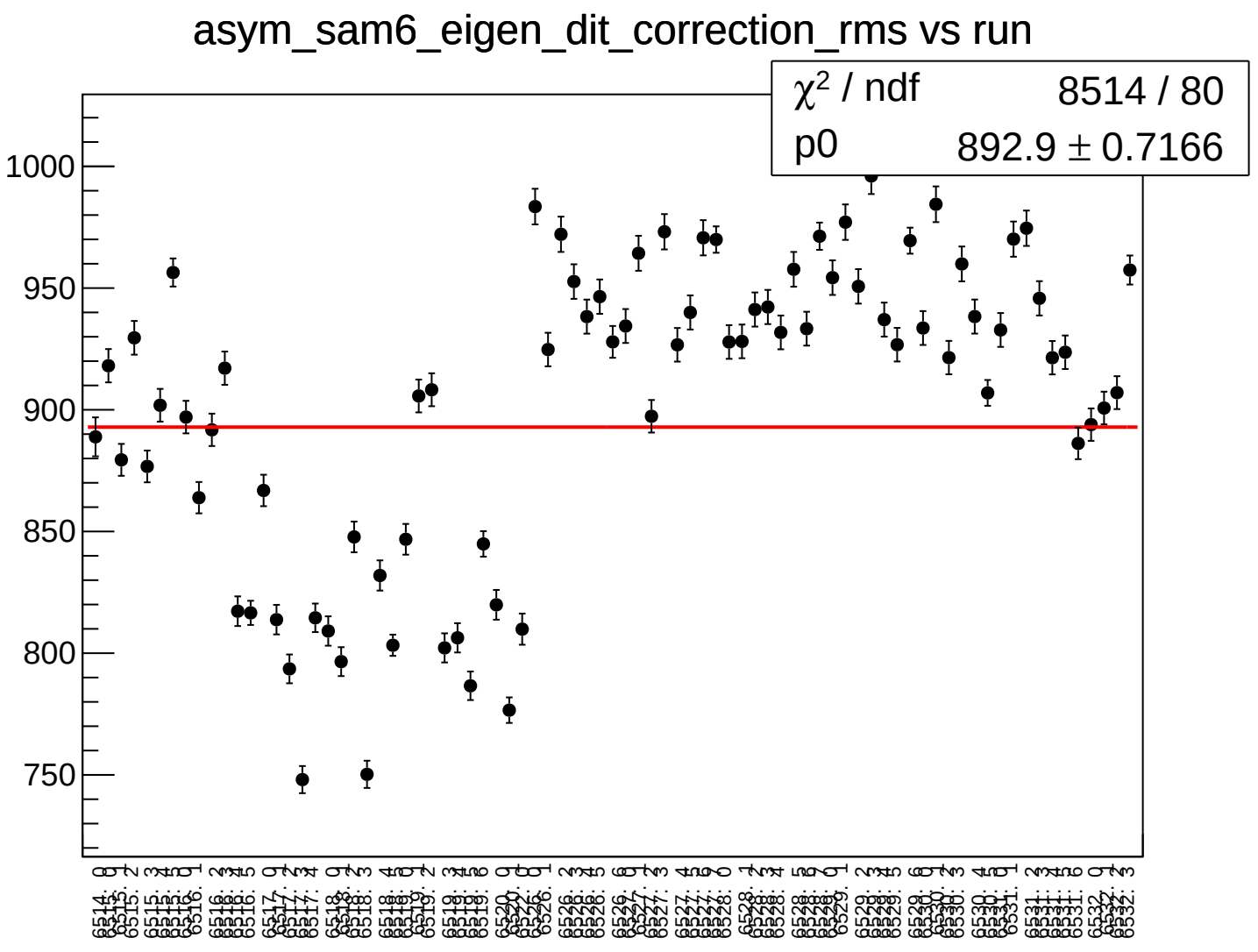

eigen_dit_asym_sam6_mean vs run
χ² / ndf 60.18 / 80
p0 307.8 ± 158.2
pull
Entries 81
Mean −206.1
Std Dev 0

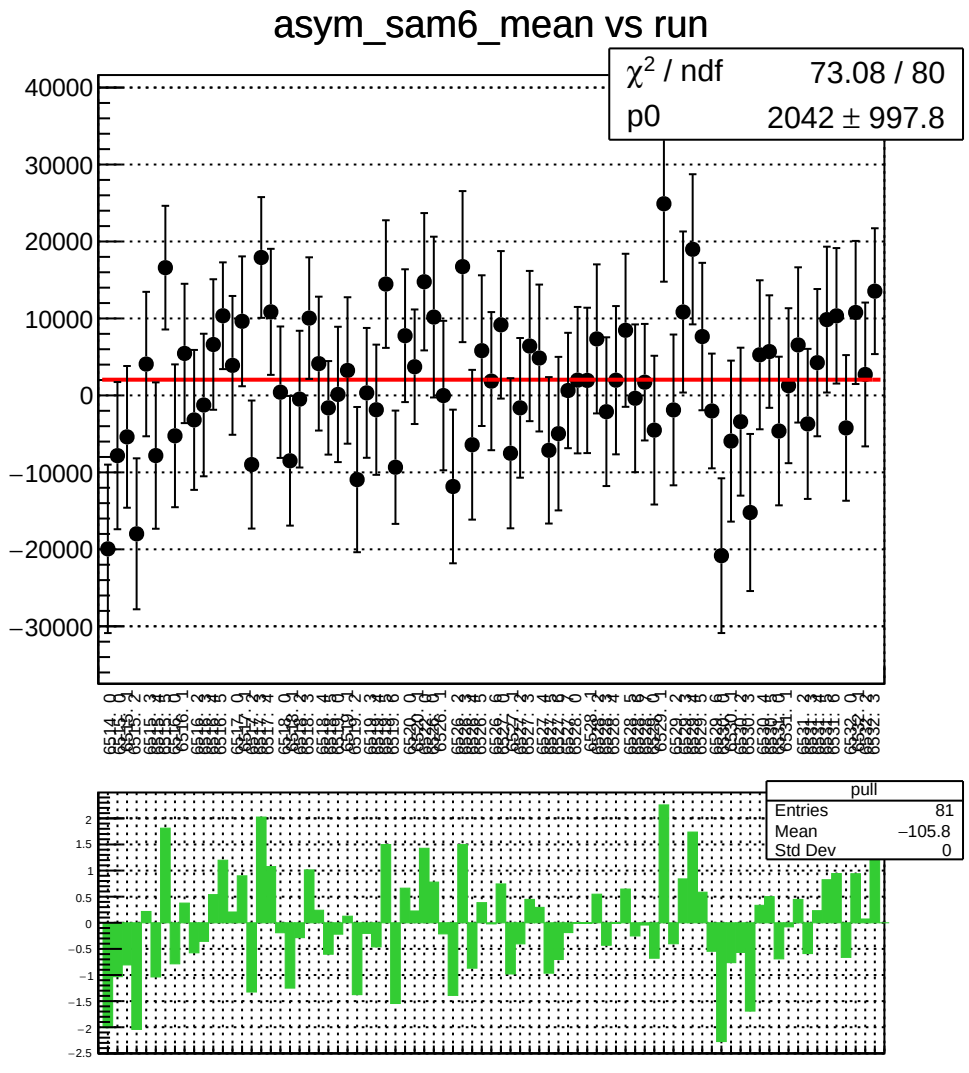

pull1D
Entries 81
Mean 0.01067
Std Dev 0.8619

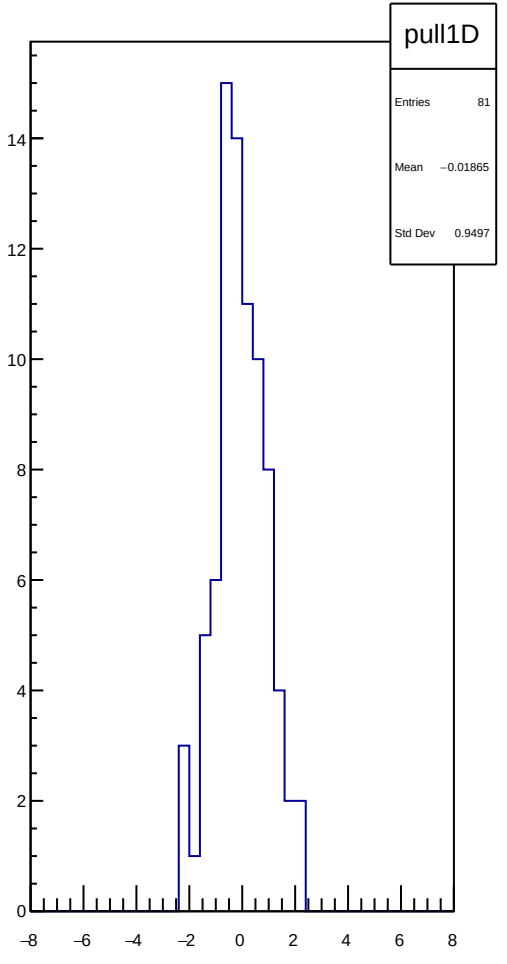

eigen_dit_asym_sam6_rms vs run
χ² / ndf 7052 / 80
p0 139.5 ± 0.1119
160
155
150
145
140
135
130
125
120

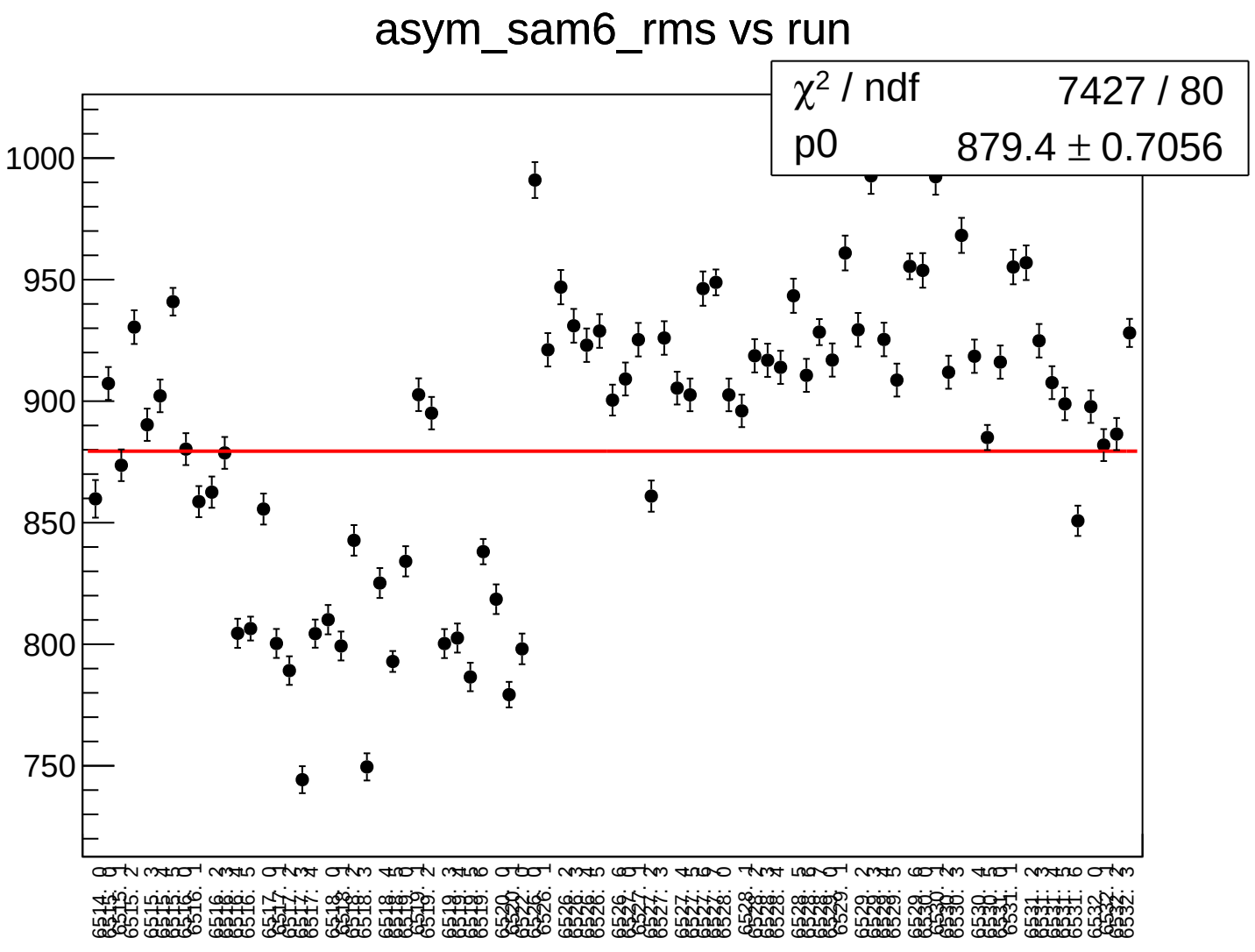

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 68.85 / 80
p0 −1736 ± 1013
pull
Entries 81
Mean −108.7
Std Dev 0

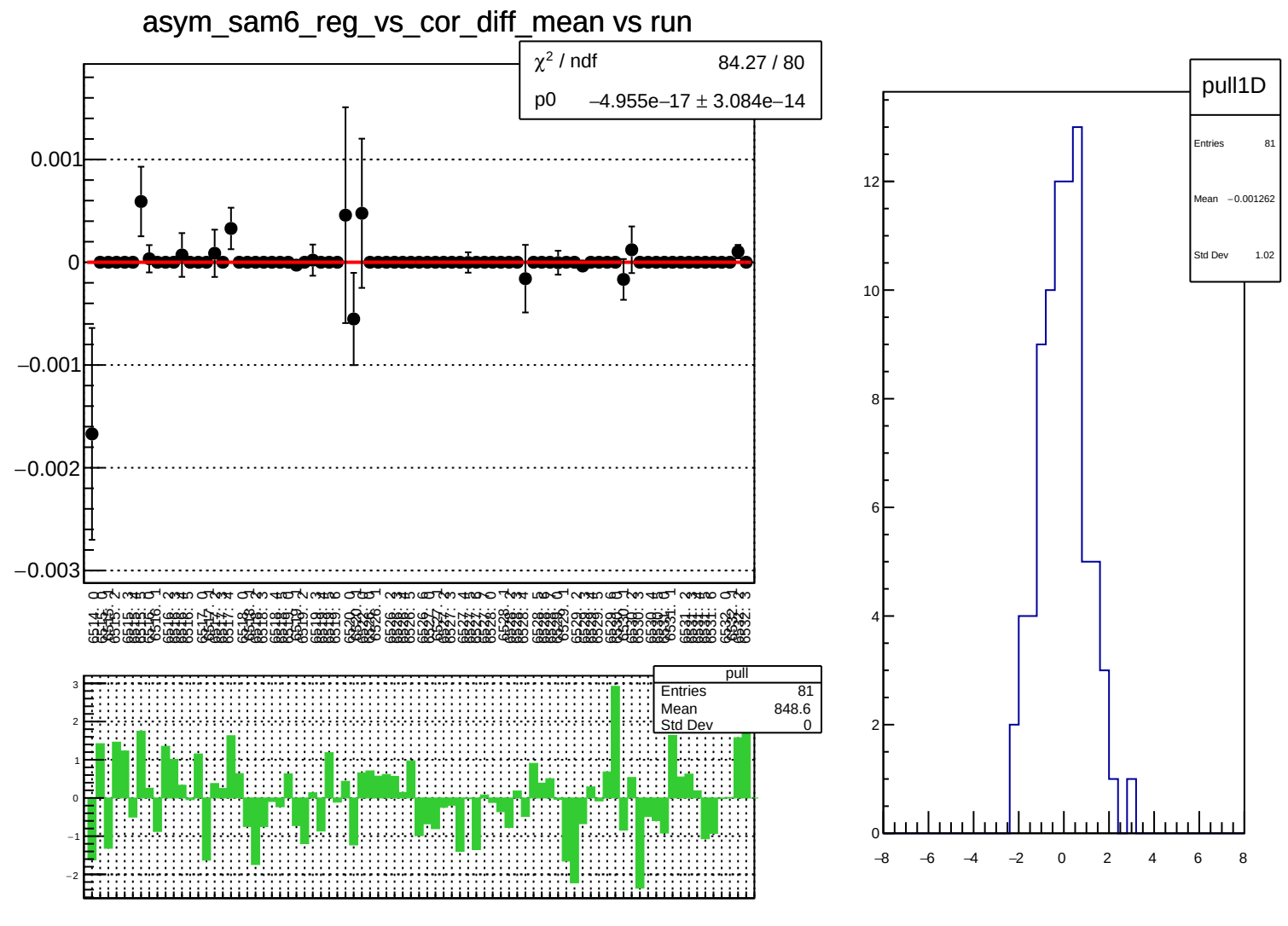

pull1D
Entries 81
Mean 0.0202
Std Dev 0.9217

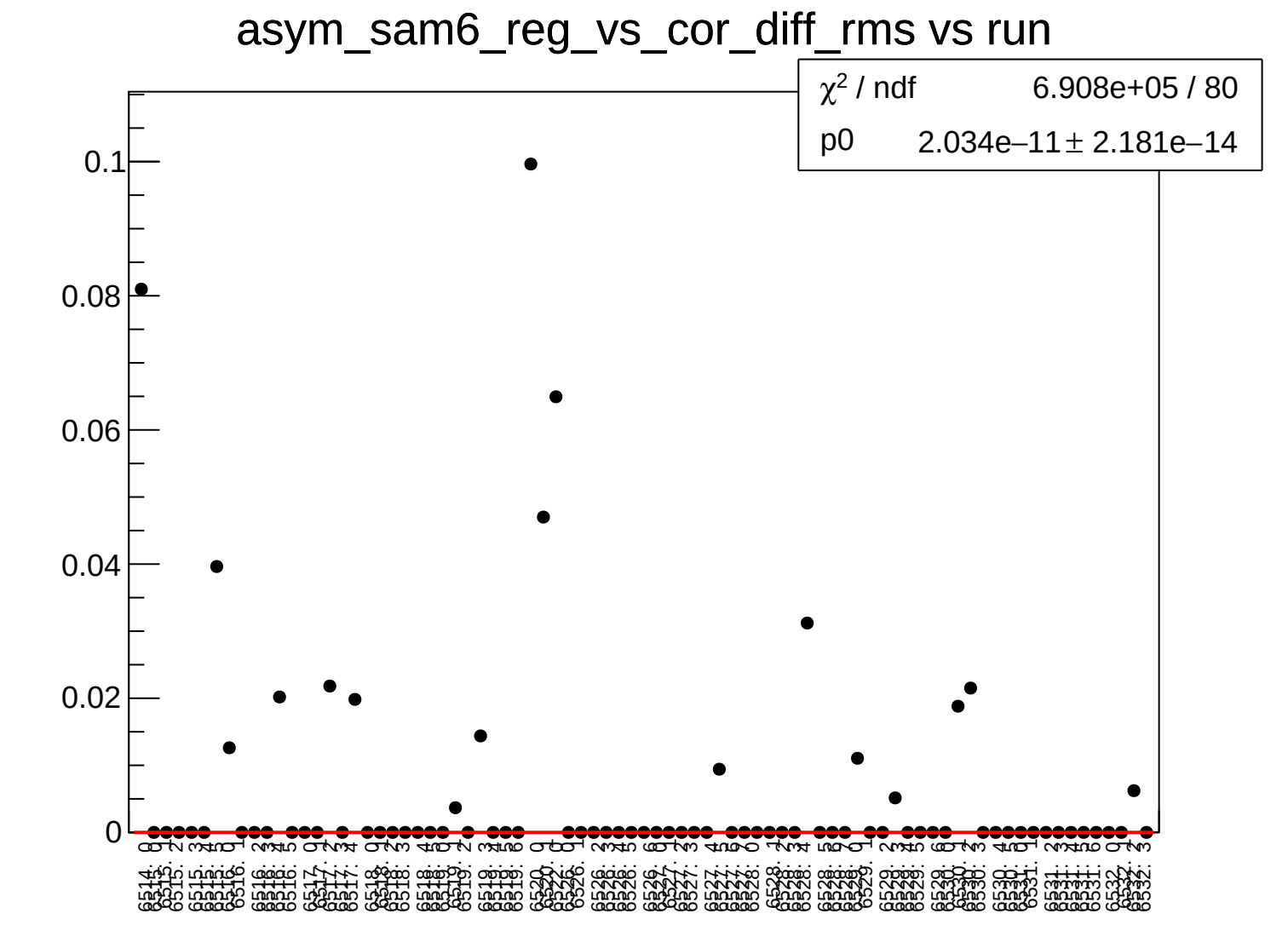

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 8514 / 80
p0 892.9 ± 0.7166
1000
950
900
850
800
750

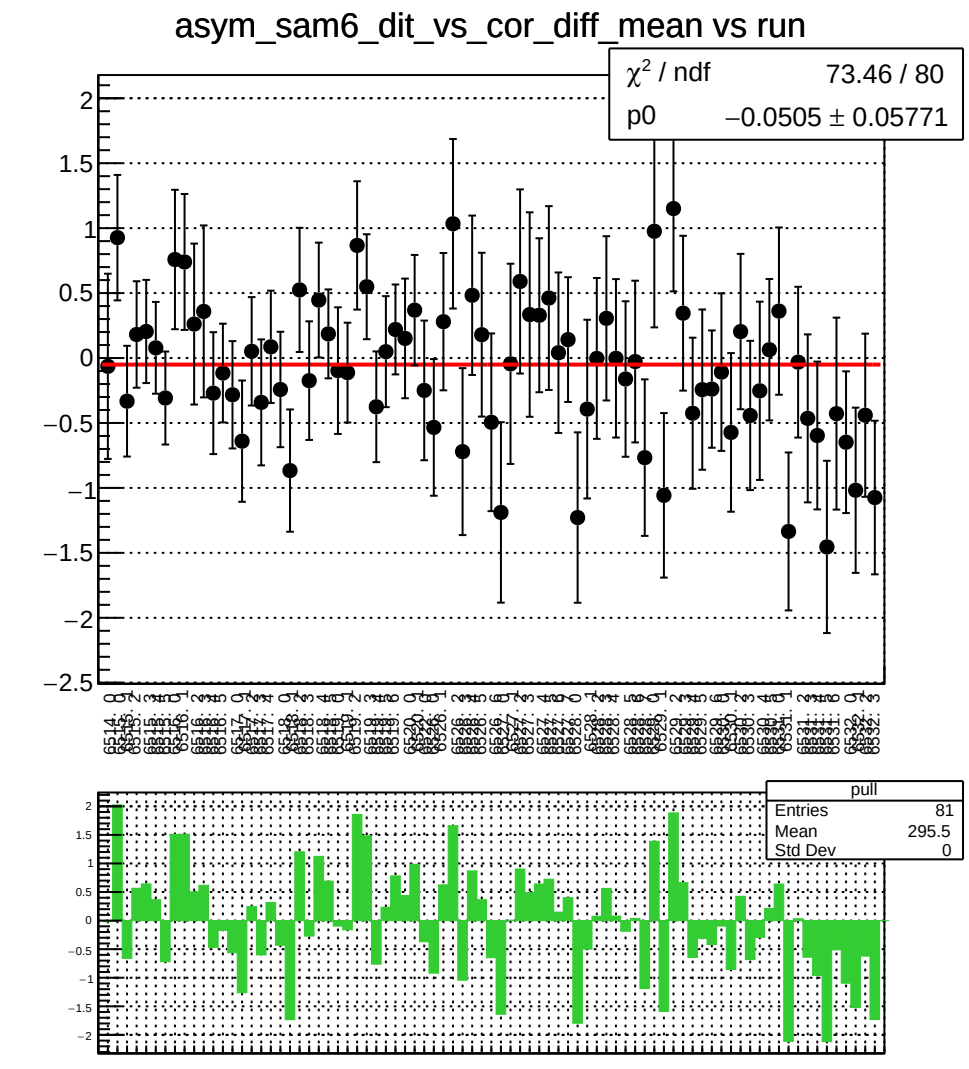

asym_sam6_mean vs run
χ² / ndf 73.08 / 80
p0 2042 ± 997.8
pull
Entries 81
Mean −105.8
Std Dev 0

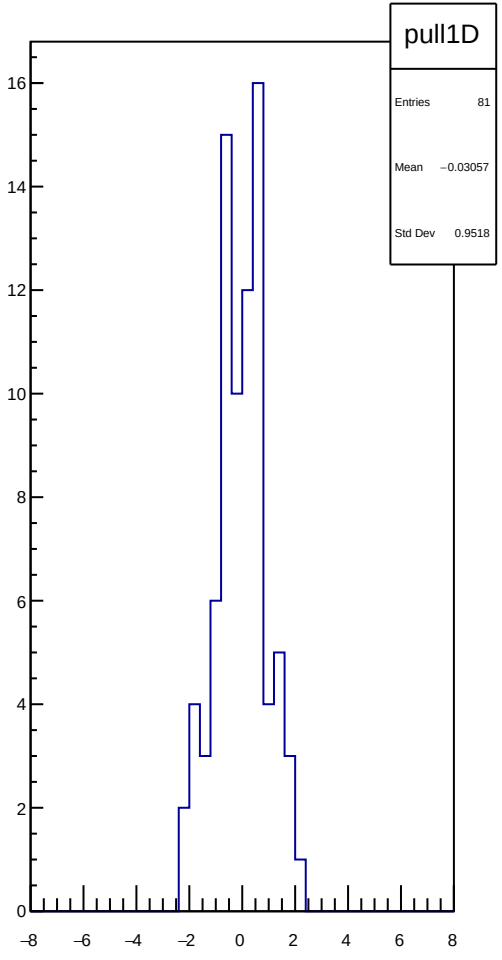

pull1D
Entries 81
Mean −0.01865
Std Dev 0.9497

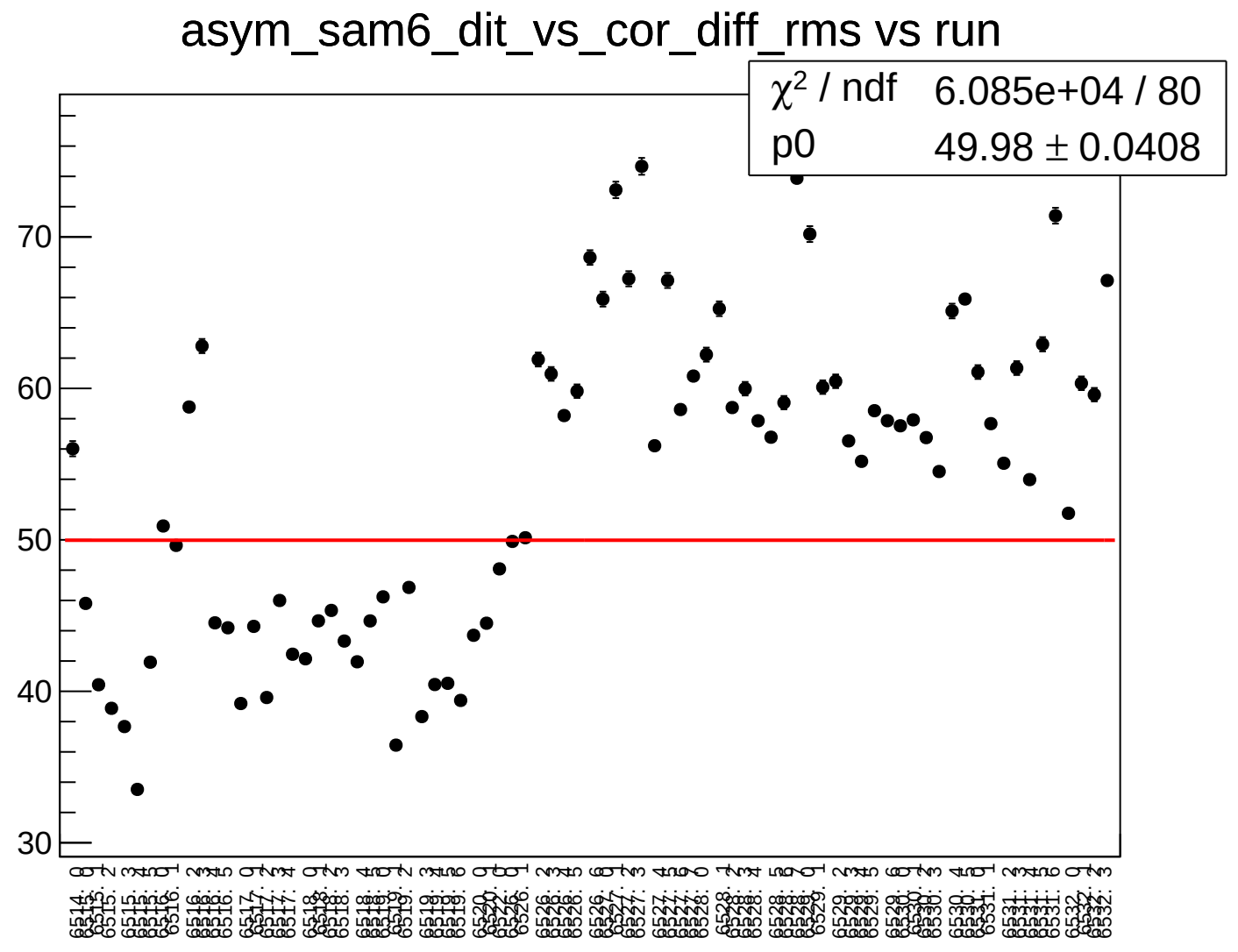

asym_sam6_rms vs run
χ² / ndf 7427 / 80
p0 879.4 ± 0.7056
1000
950
900
850
800
750

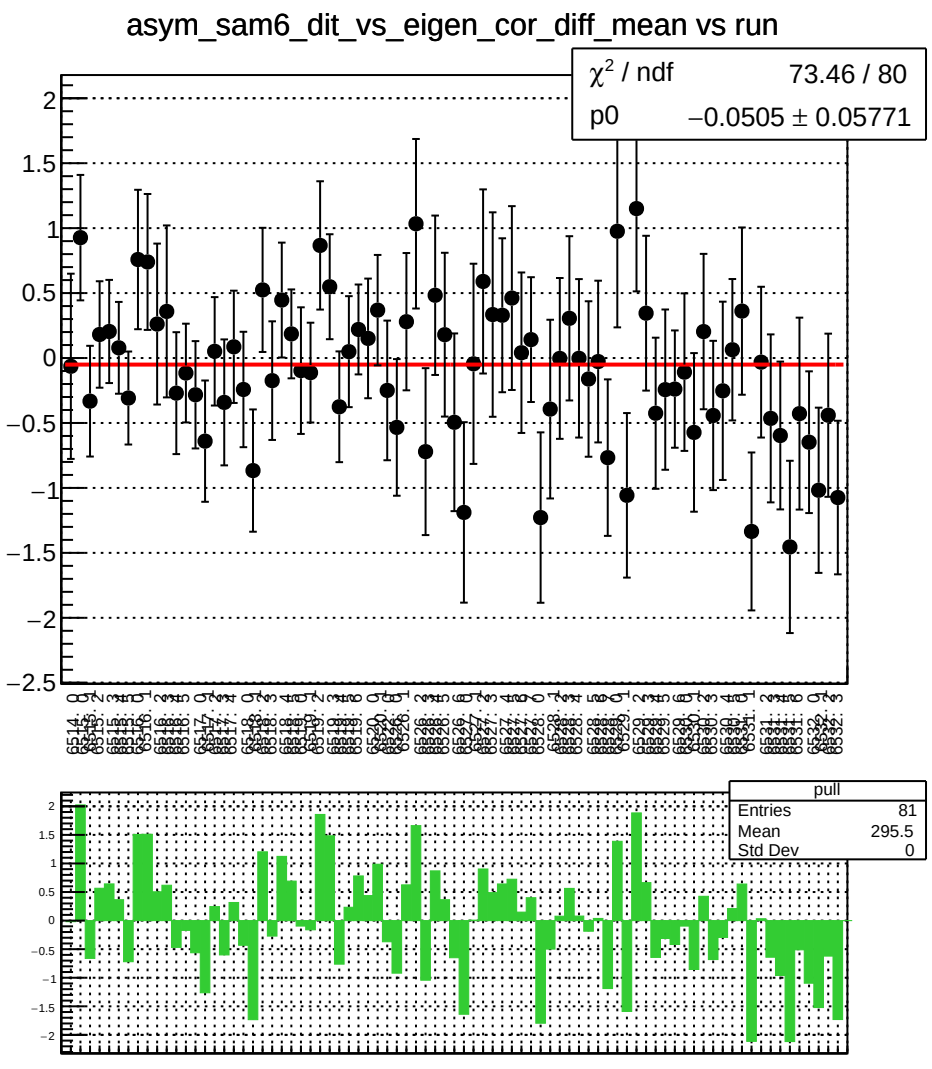

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 84.27 / 80
p0 −4.955e−17 ± 3.084e−14
0.001
0
−0.001
−0.002
−0.003
pull
Entries 81
Mean 848.6
Std Dev 0
pull1D
Entries 81
Mean −0.001262
Std Dev 1.02
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

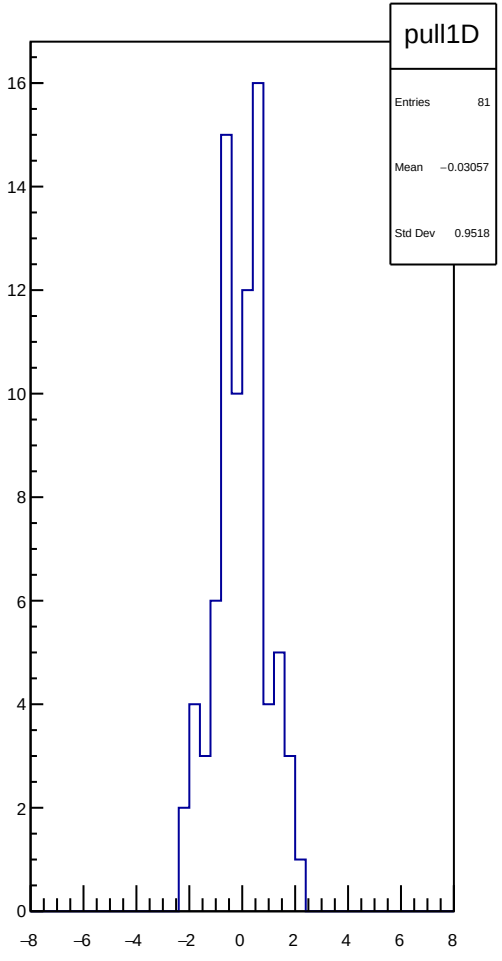

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 6.908e+05 / 80
p0 2.034e−11 ± 2.181e−14
0.1
0.08
0.06
0.04
0.02
0

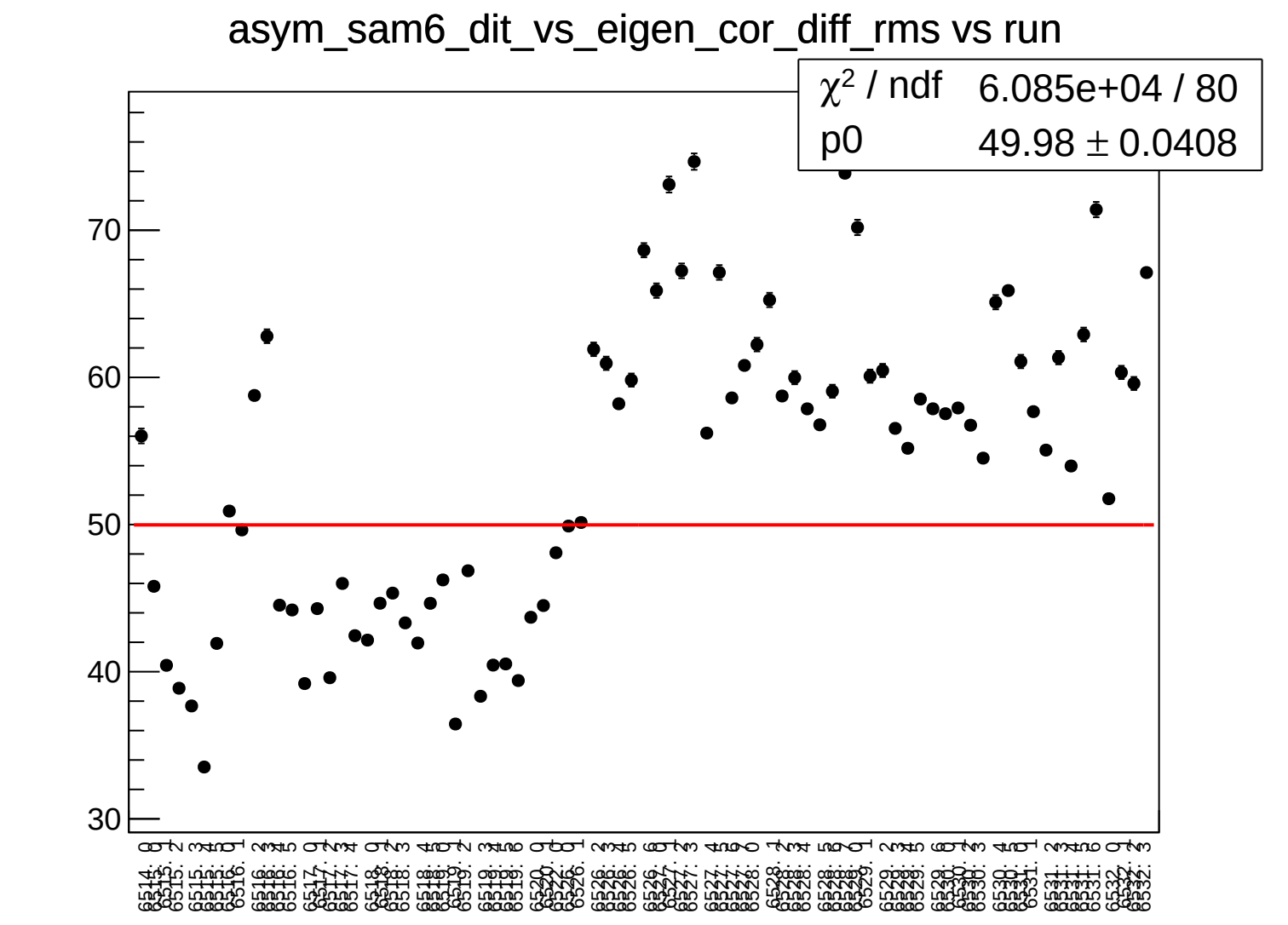

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 73.46 / 80
p0 −0.0505 ± 0.05771
pull
Entries 81
Mean 295.5
Std Dev 0

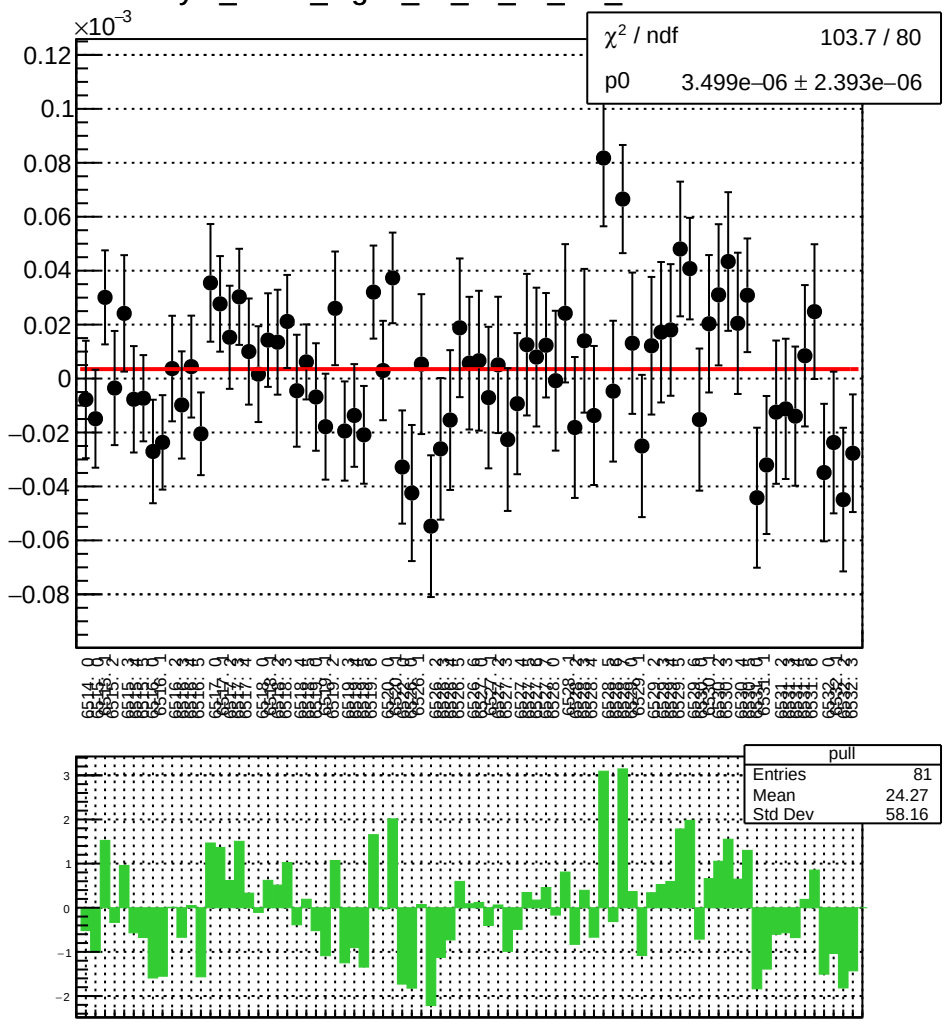

pull1D
Entries 81
Mean −0.03057
Std Dev 0.9518

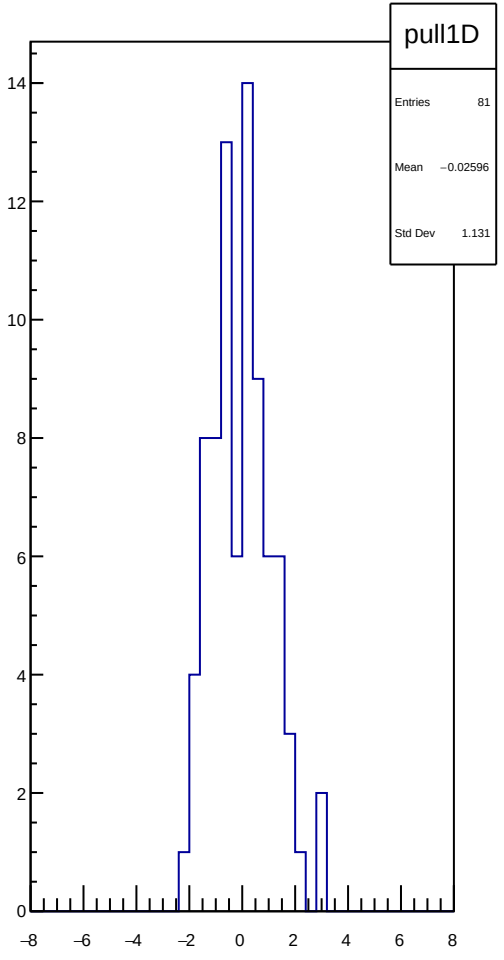

asym_sam6_dit_vs_cor_diff_rms vs run
χ² / ndf 6.085e+04 / 80
p0 49.98 ± 0.0408
70
60
50
40
30

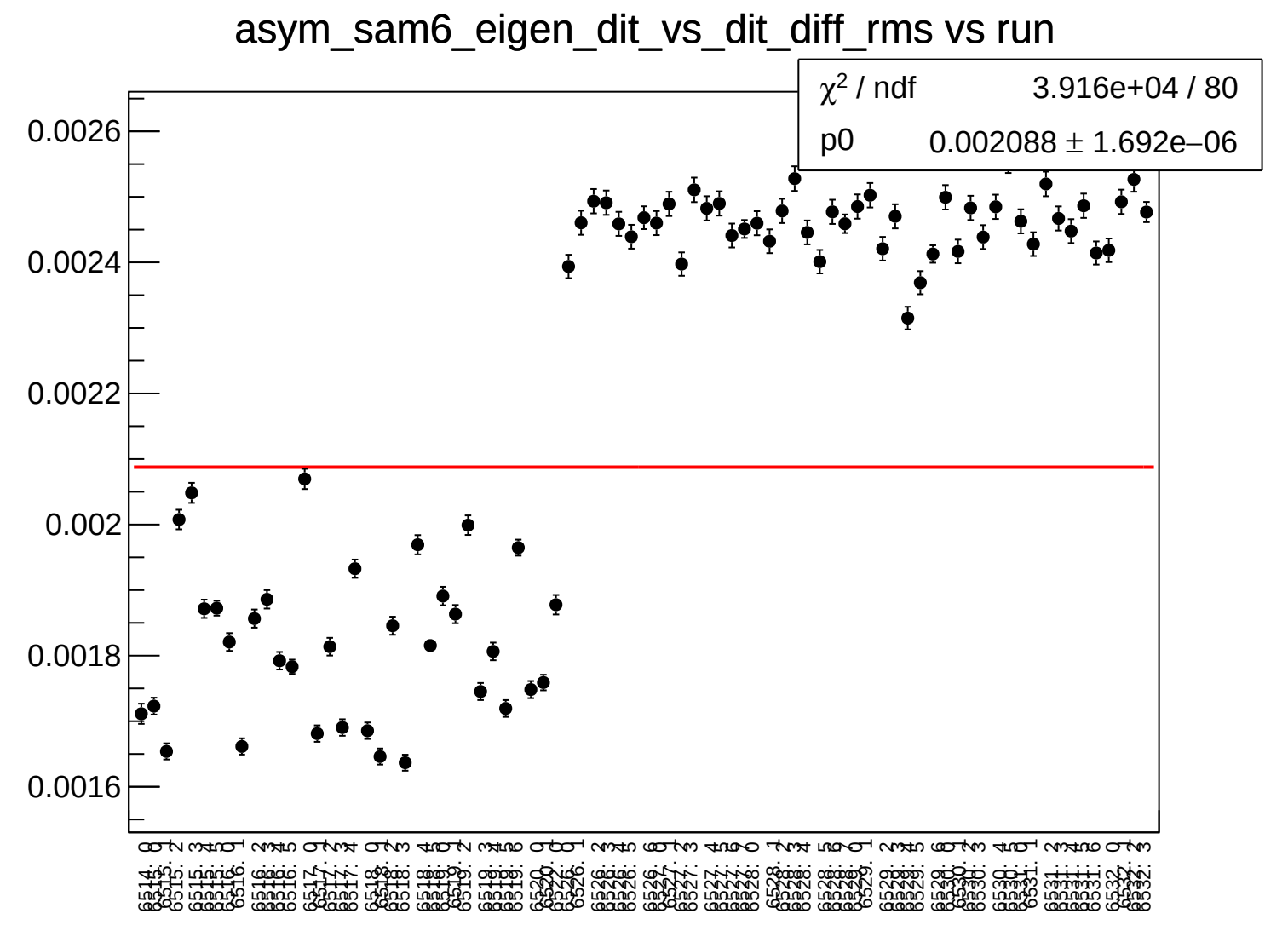

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.46 / 80
p0 −0.0505 ± 0.05771
pull
Entries 81
Mean 295.5
Std Dev 0

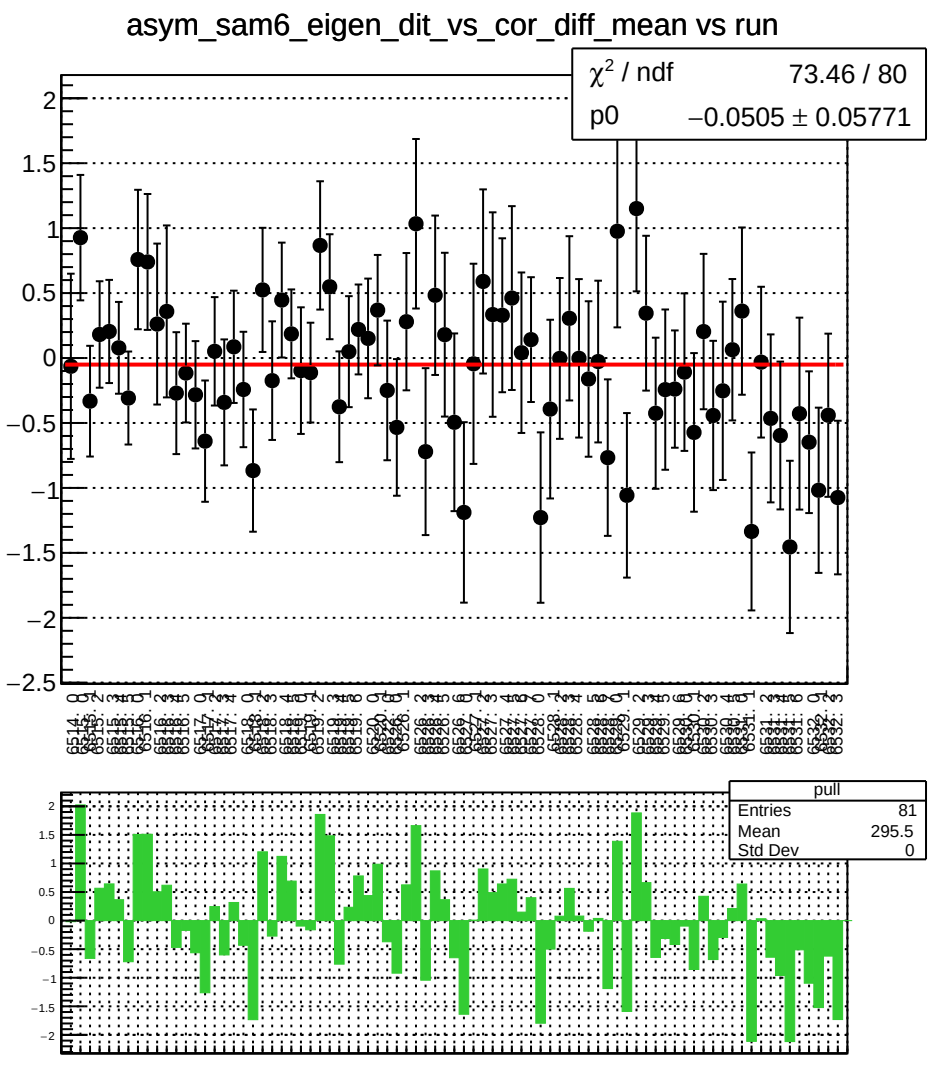

pull1D
Entries 81
Mean −0.03057
Std Dev 0.9518

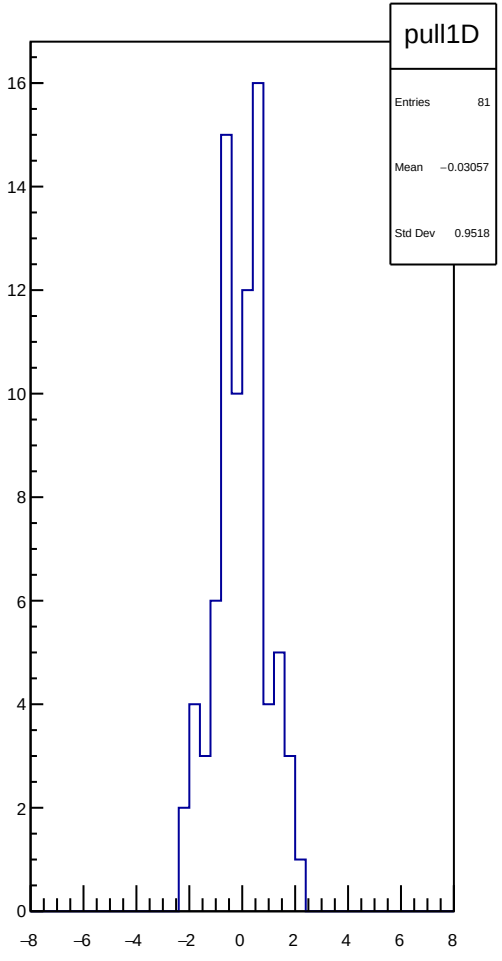

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.085e+04 / 80
p0 49.98 ± 0.0408
70
60
50
40
30

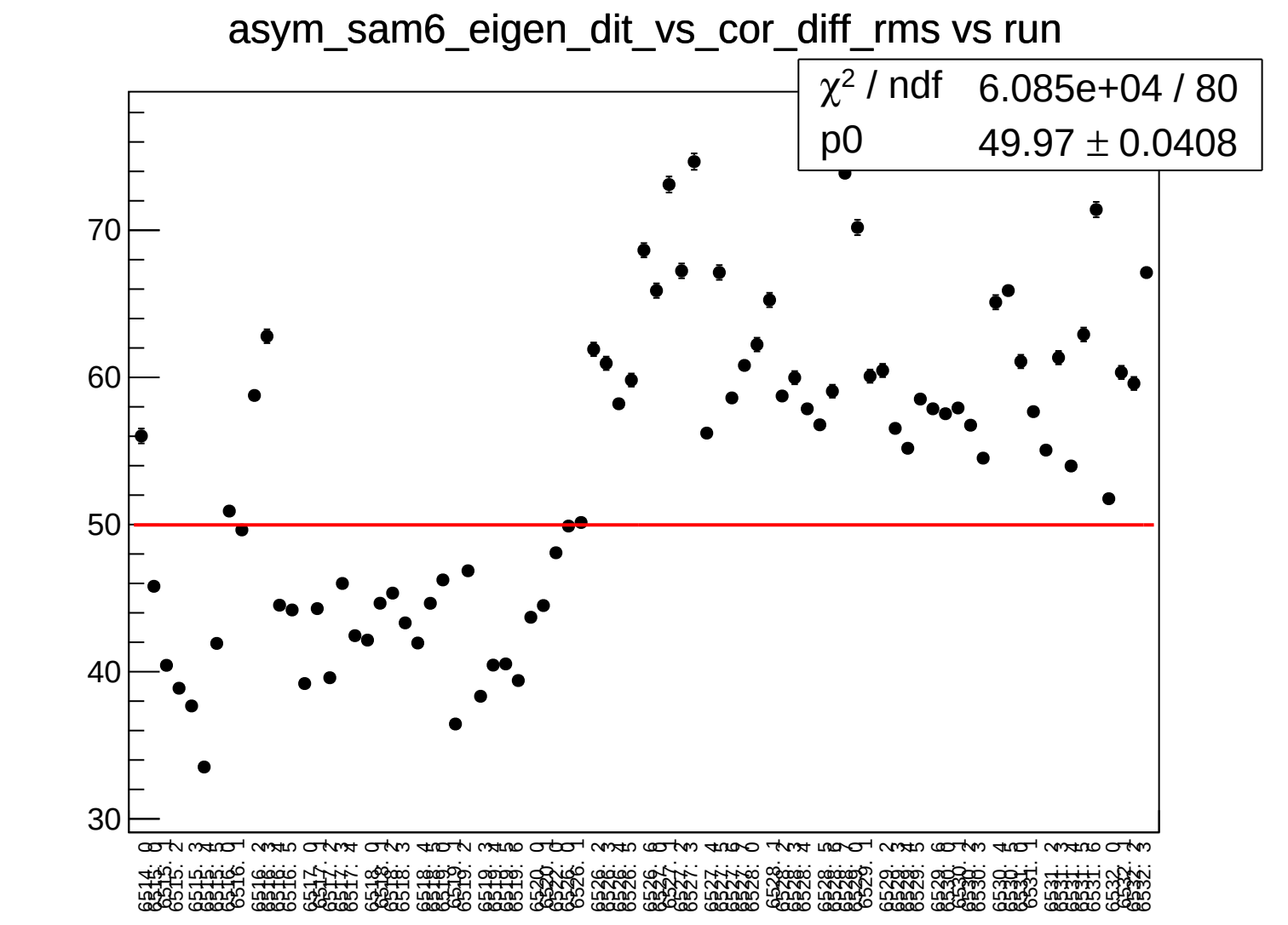

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103.7 / 80
p0 3.499e−06 ± 2.393e−06
pull
Entries 81
Mean 24.27
Std Dev 58.16

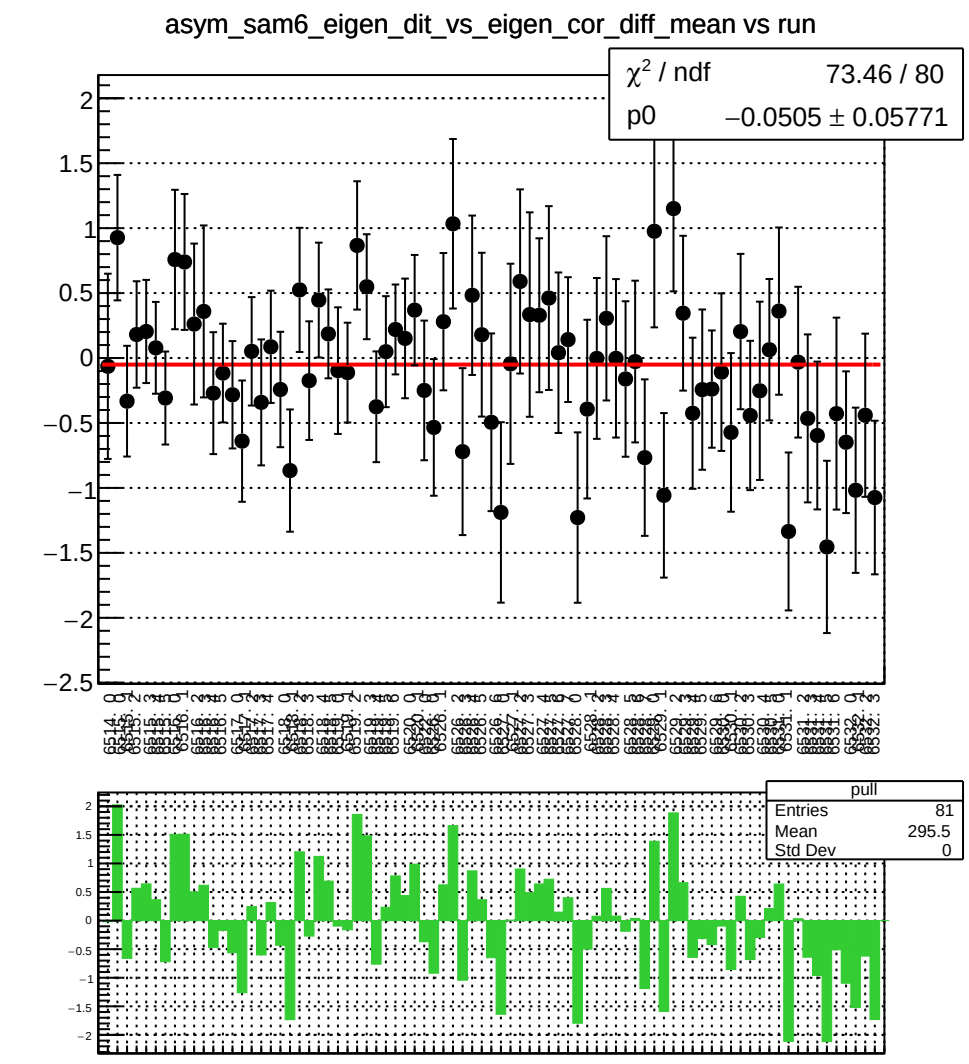

pull1D
Entries 81
Mean −0.02596
Std Dev 1.131

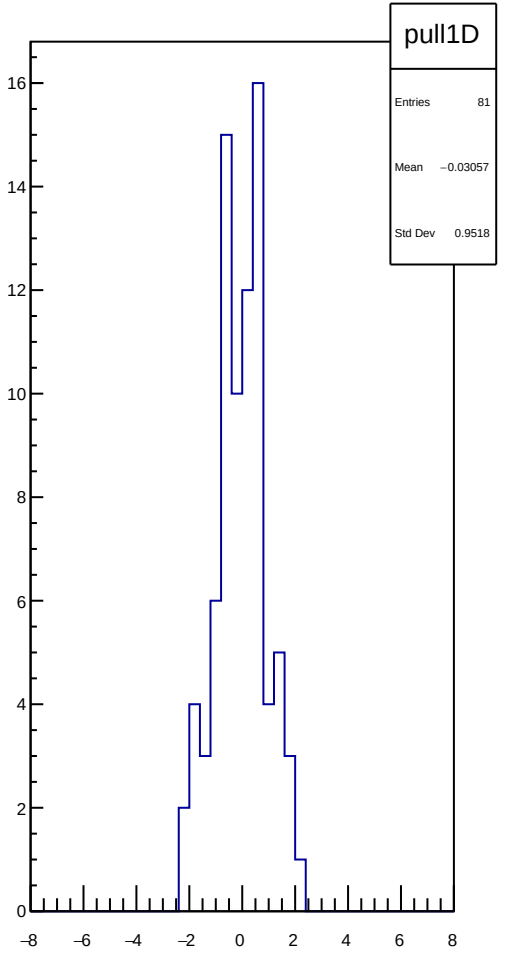

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.916e+04 / 80
p0 0.002088 ± 1.692e−06
0.0026
0.0024
0.0022
0.002
0.0018
0.0016

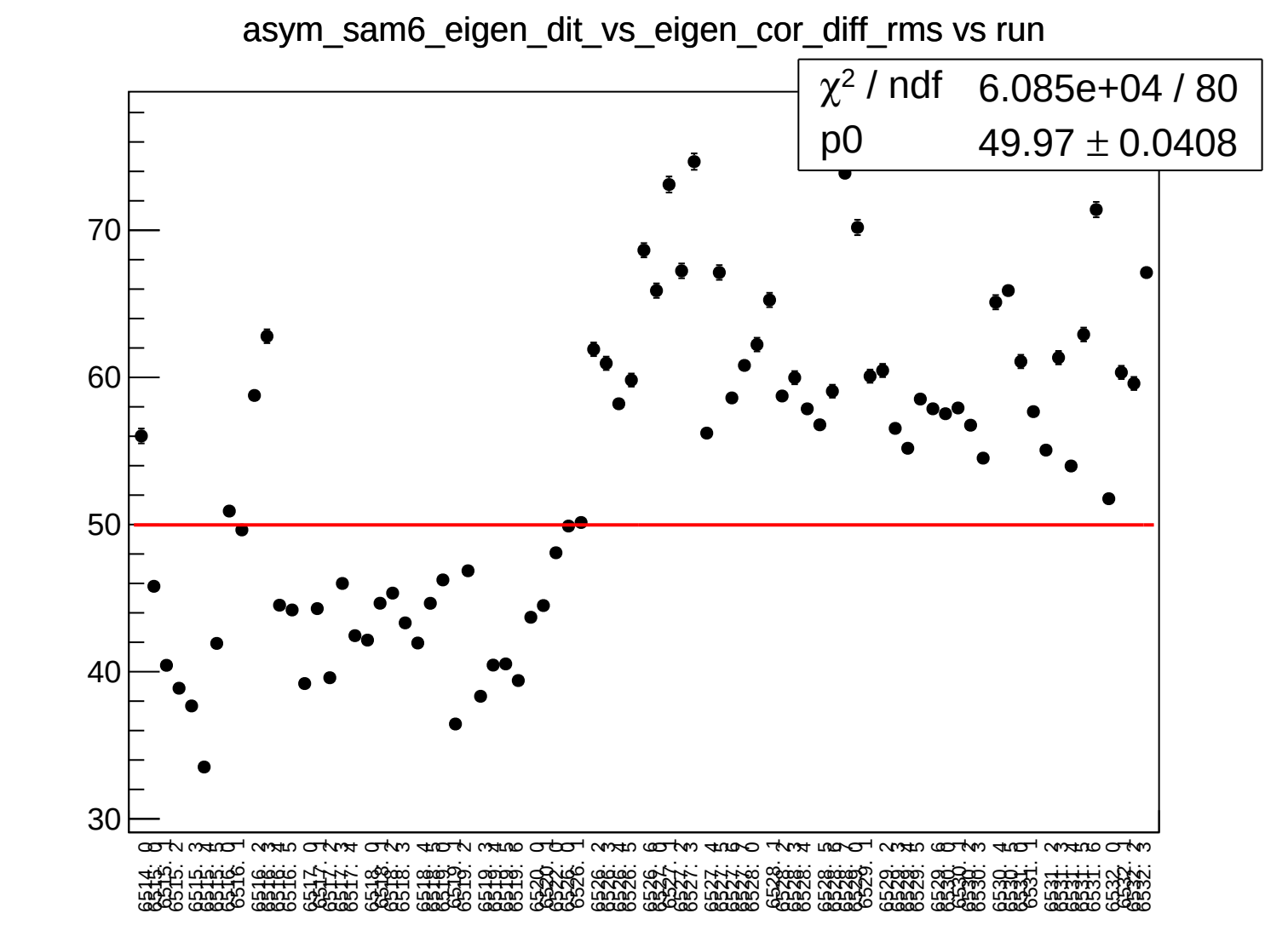

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.46 / 80
p0 −0.0505 ± 0.05771
pull
Entries 81
Mean 295.5
Std Dev 0

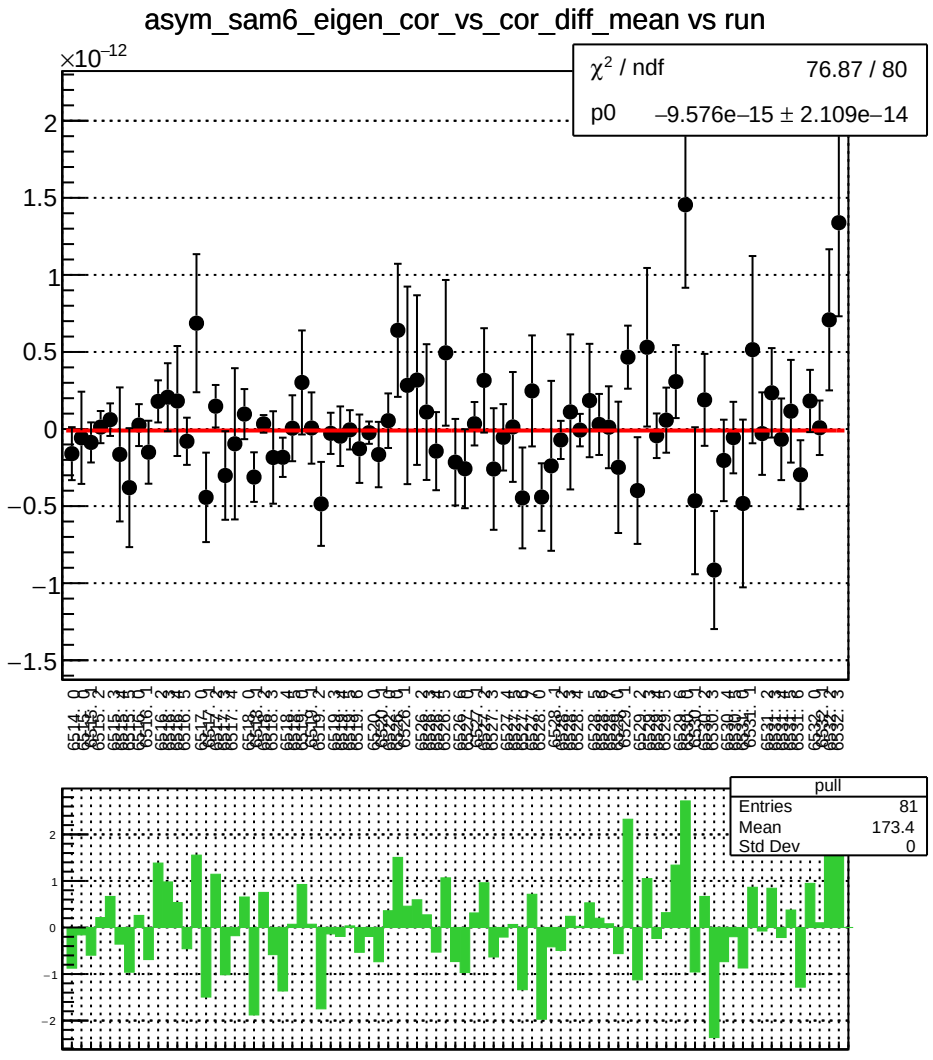

pull1D
Entries 81
Mean −0.03057
Std Dev 0.9518

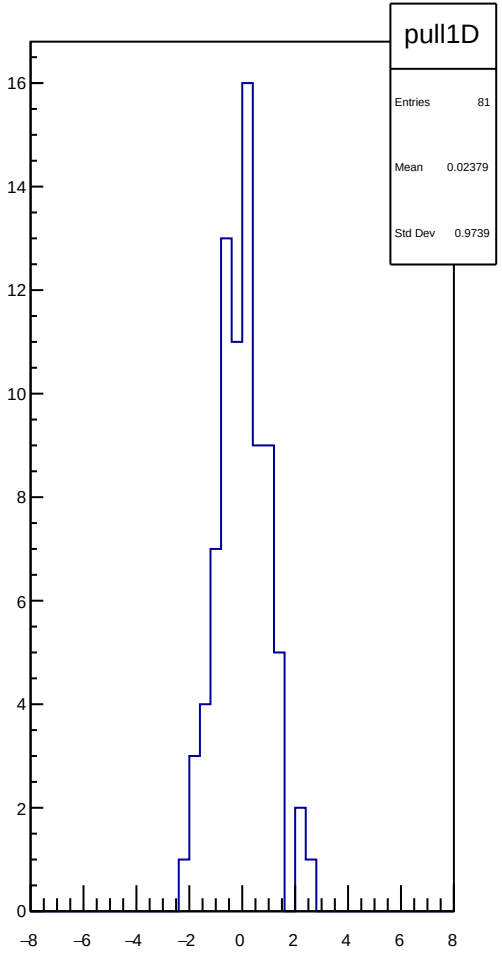

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.085e+04 / 80
p0 49.97 ± 0.0408
70
60
50
40
30

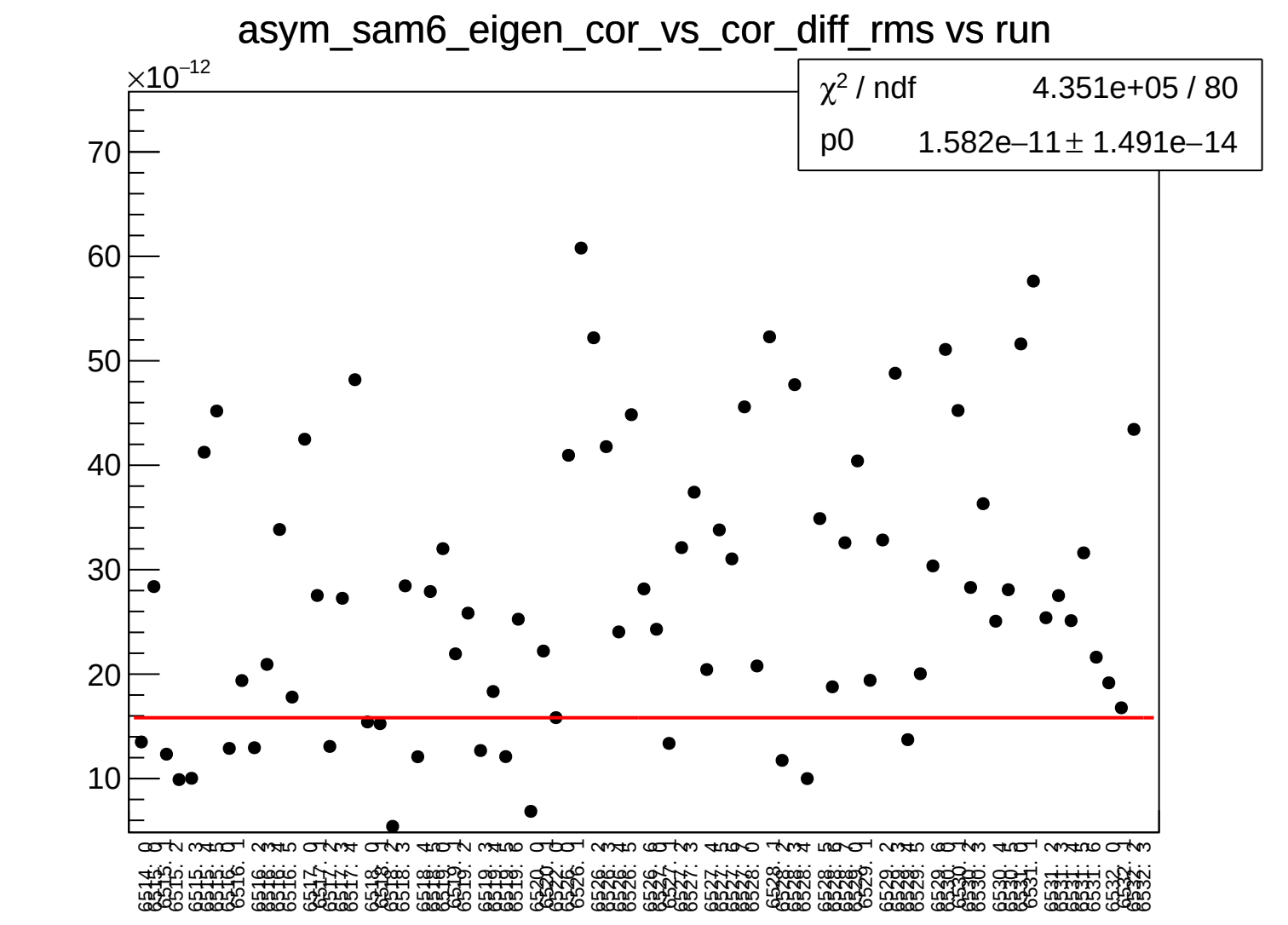

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.46 / 80
p0 −0.0505 ± 0.05771
pull
Entries 81
Mean 295.5
Std Dev 0

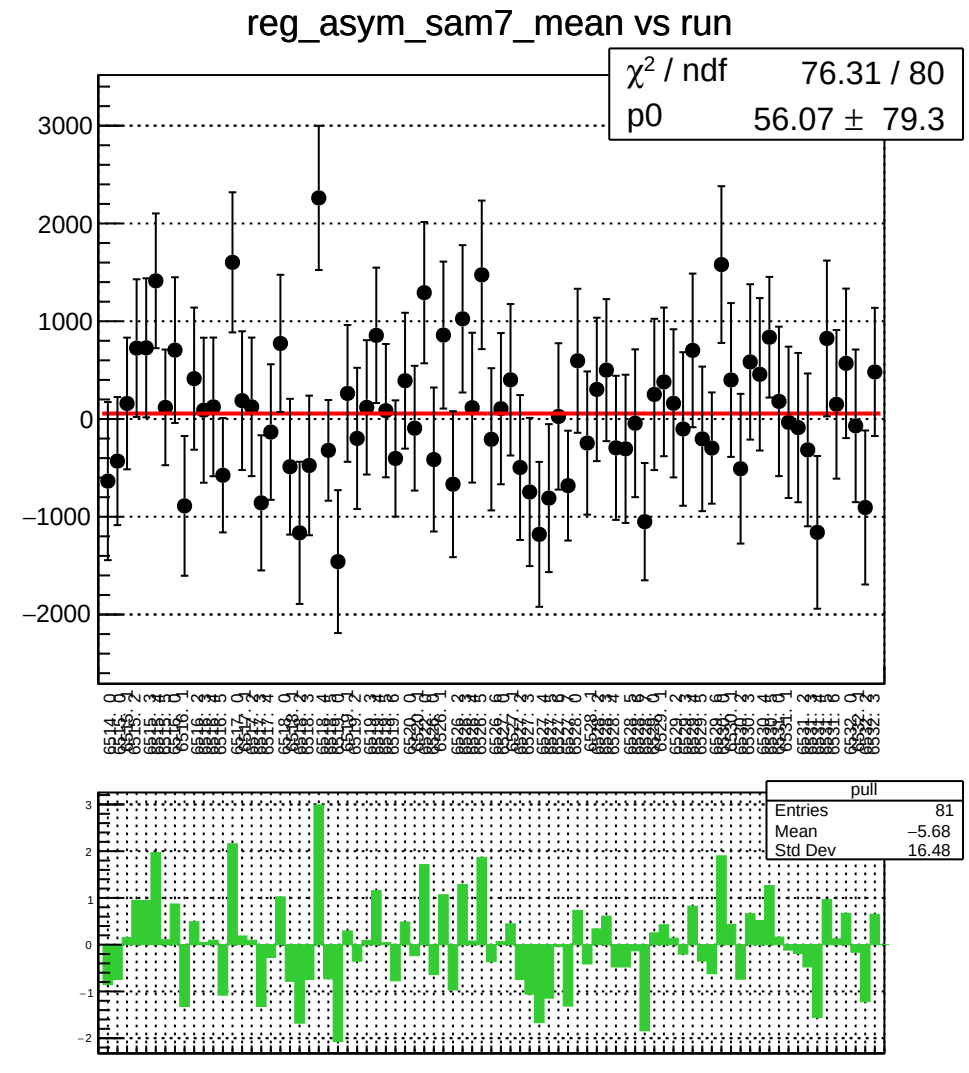

pull1D
Entries 81
Mean −0.03057
Std Dev 0.9518

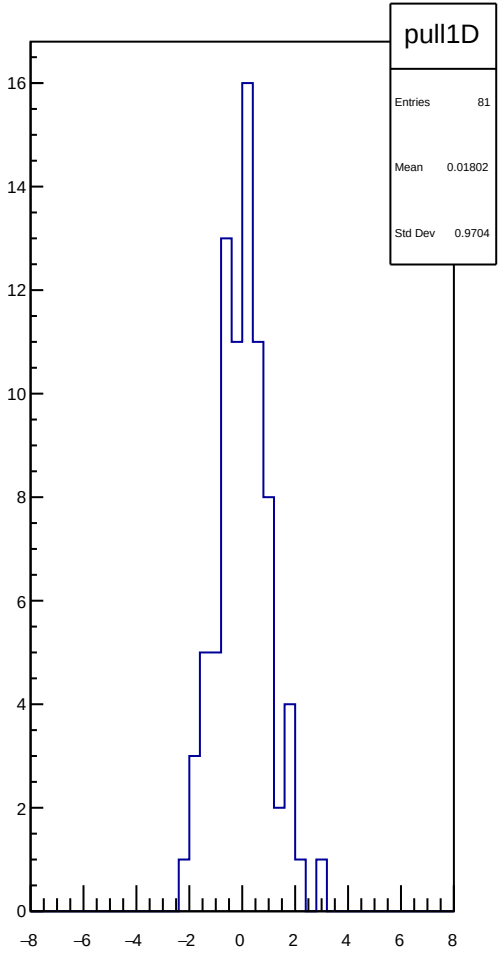

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.085e+04 / 80
p0 49.97 ± 0.0408
70
60
50
40
30

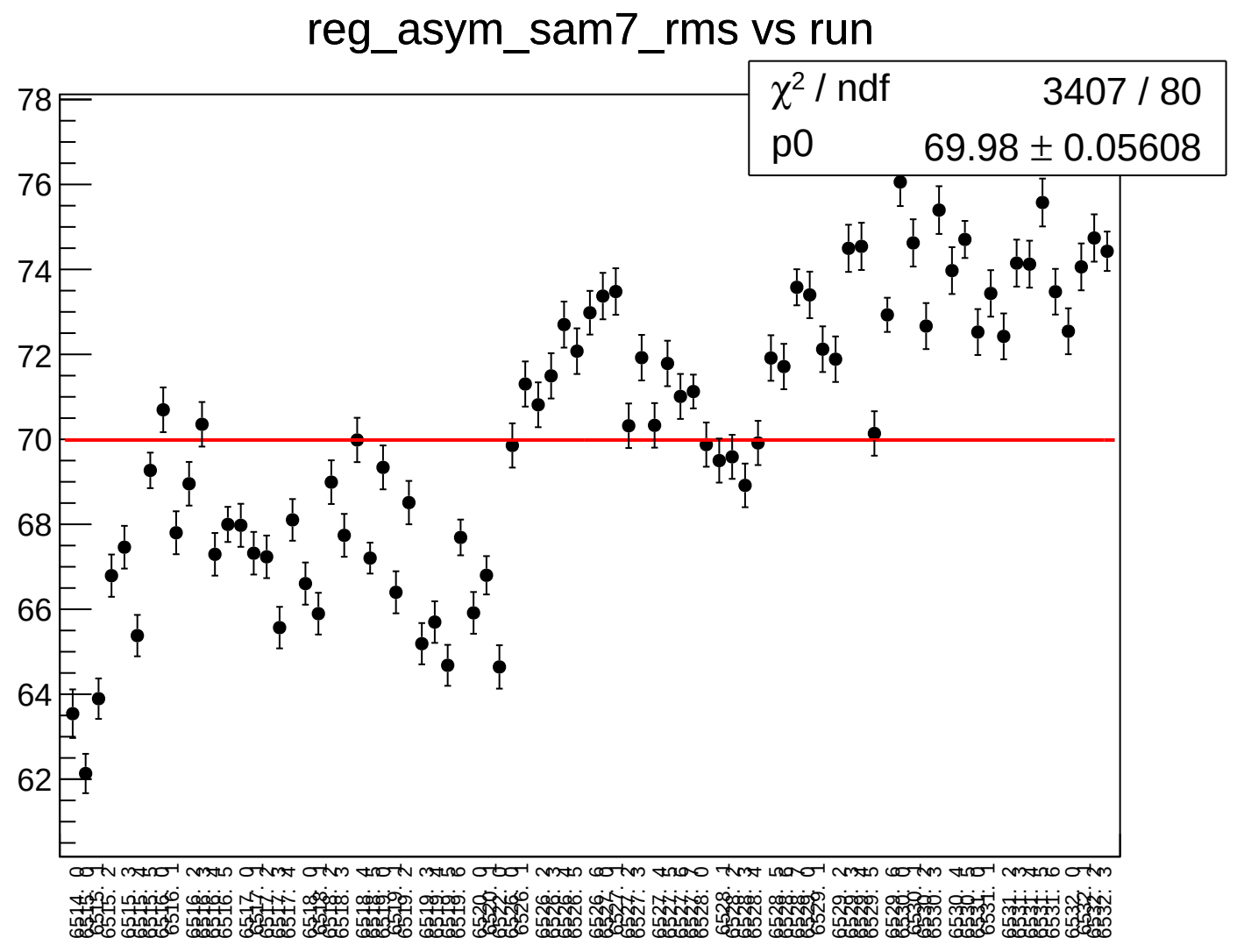

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.87 / 80
p0 −9.576e−15 ± 2.109e−14
pull
Entries 81
Mean 173.4
Std Dev 0

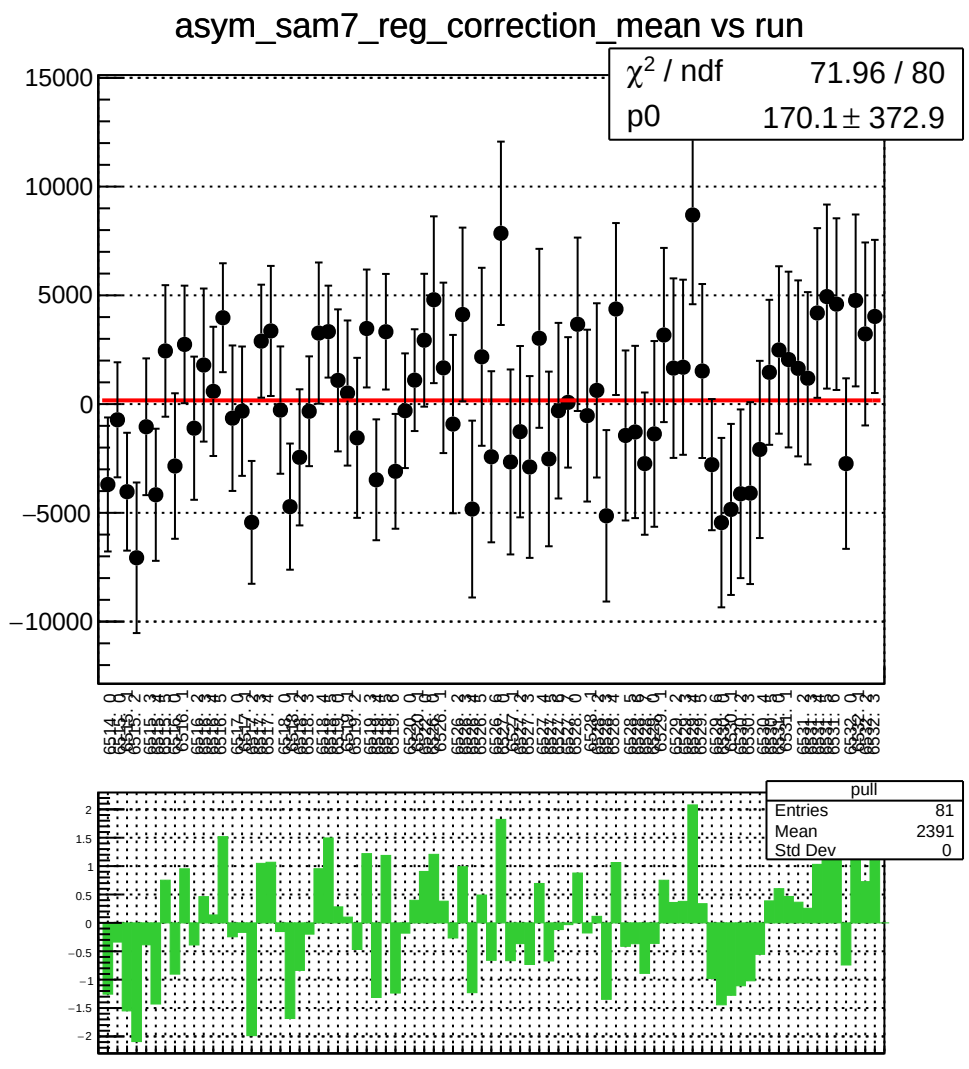

pull1D
Entries 81
Mean 0.02379
Std Dev 0.9739

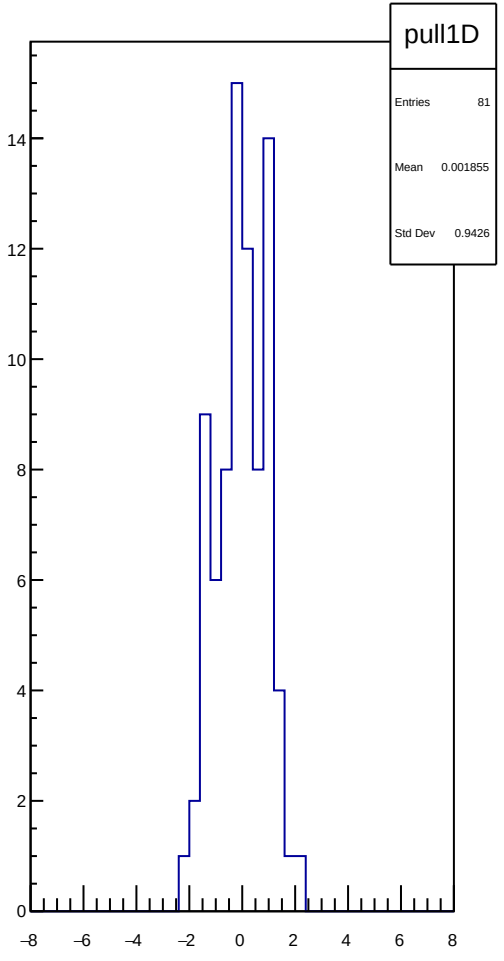

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.351e+05 / 80
p0 1.582e−11 ± 1.491e−14
70
60
50
40
30
20
10

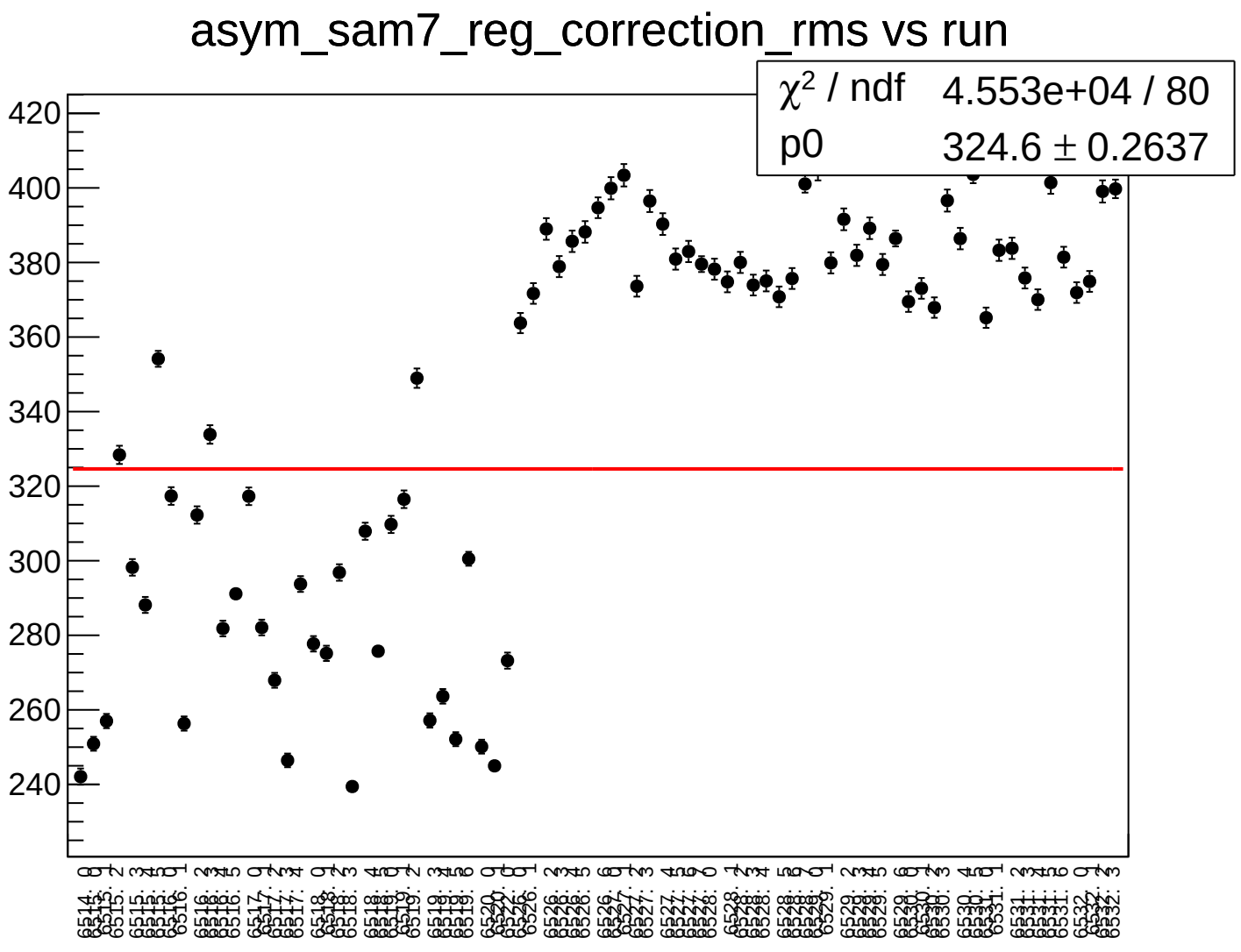

reg_asym_sam7_mean vs run
χ² / ndf 76.31 / 80
p0 56.07 ± 79.3
3000
2000
1000
0
−1000
−2000
pull
Entries 81
Mean −5.68
Std Dev 16.48
3
2
1
0
−1
−2

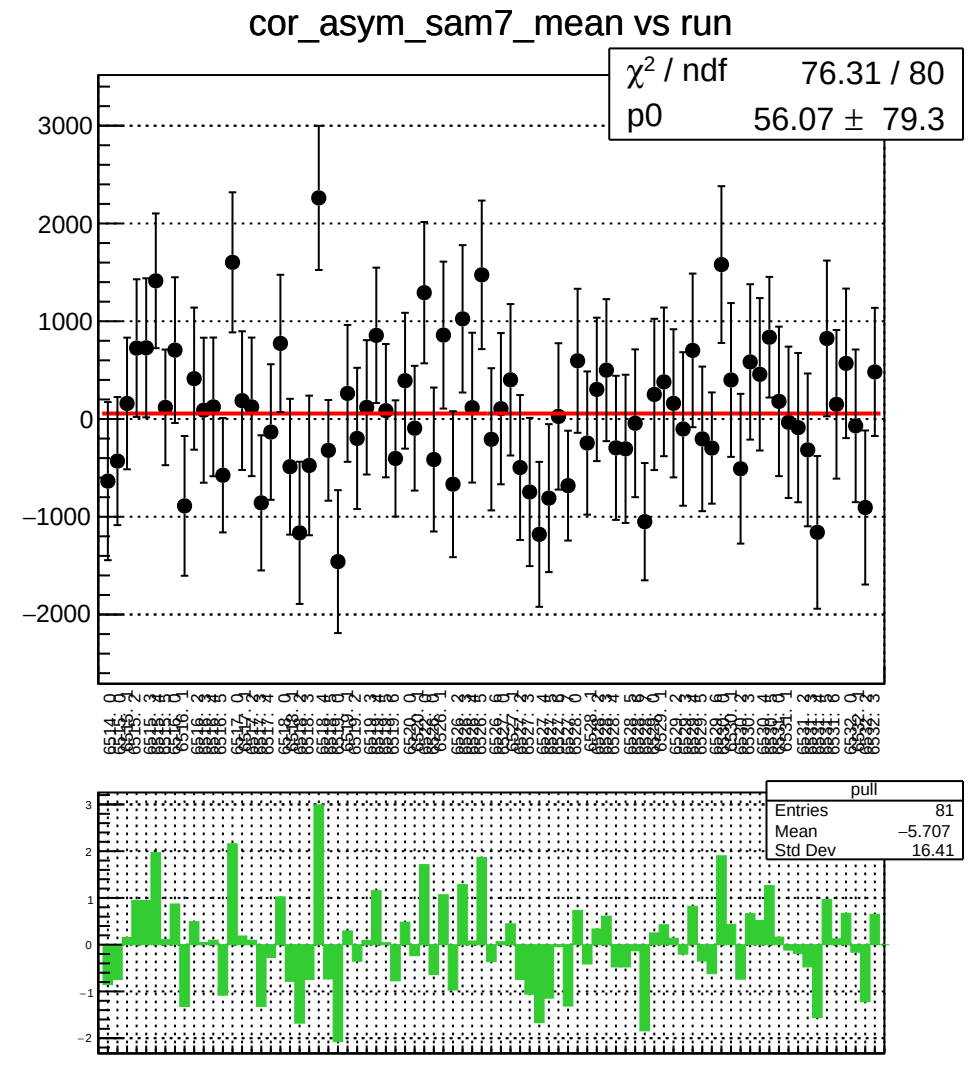

pull1D
Entries 81
Mean 0.01802
Std Dev 0.9704
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

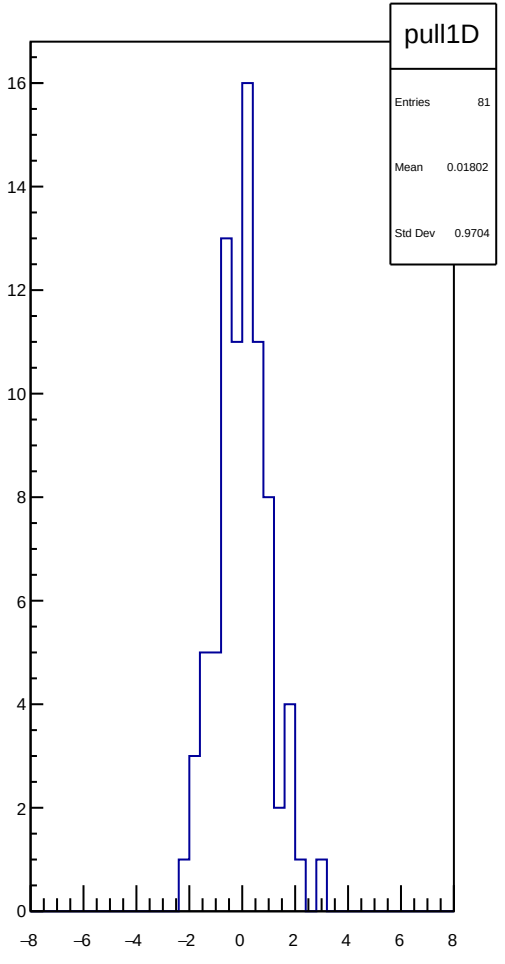

reg_asym_sam7_rms vs run
χ² / ndf 3407 / 80
p0 69.98 ± 0.05608
78
76
74
72
70
68
66
64
62

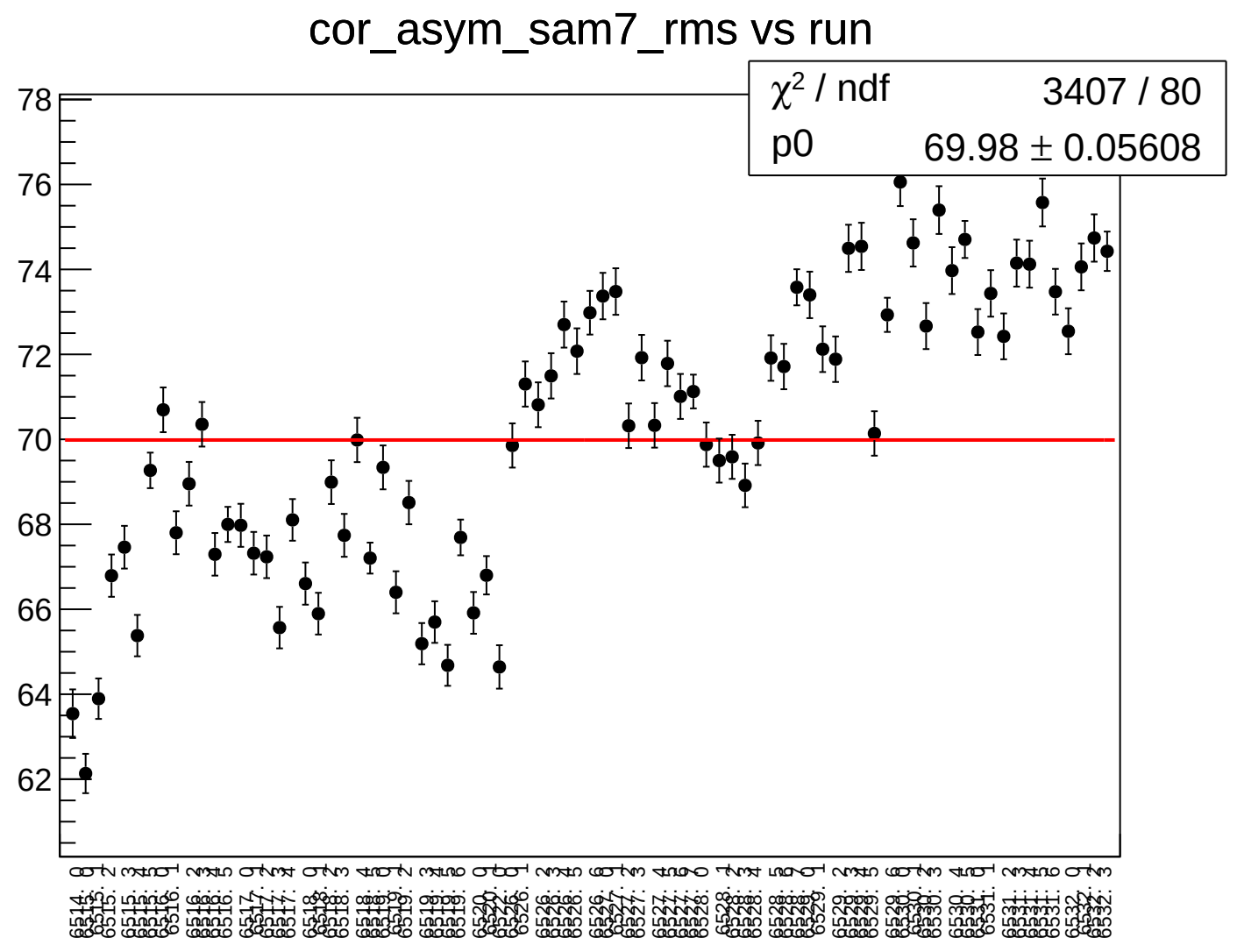

asym_sam7_reg_correction_mean vs run
χ² / ndf 71.96 / 80
p0 170.1 ± 372.9
pull
Entries 81
Mean 2391
Std Dev 0

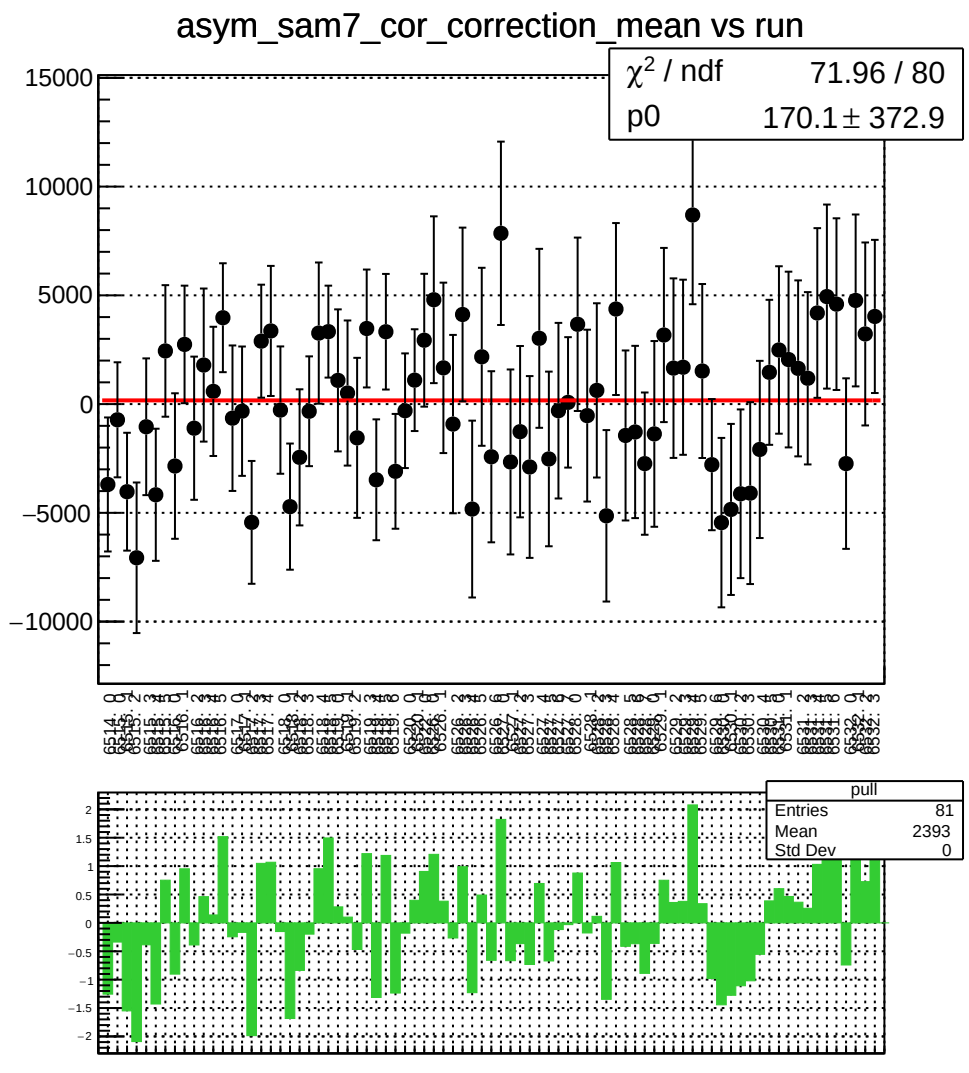

pull1D
Entries 81
Mean 0.001855
Std Dev 0.9426

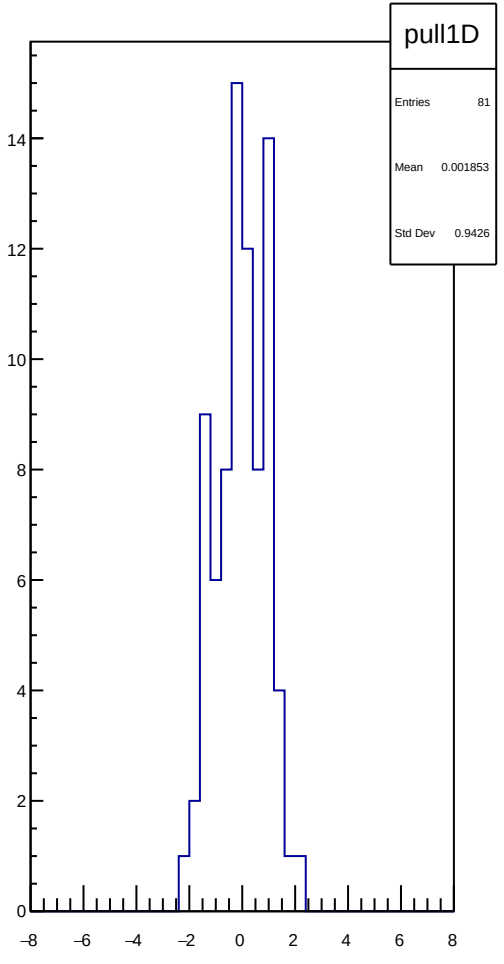

asym_sam7_reg_correction_rms vs run
χ² / ndf 4.553e+04 / 80
p0 324.6 ± 0.2637
420
400
380
360
340
320
300
280
260
240

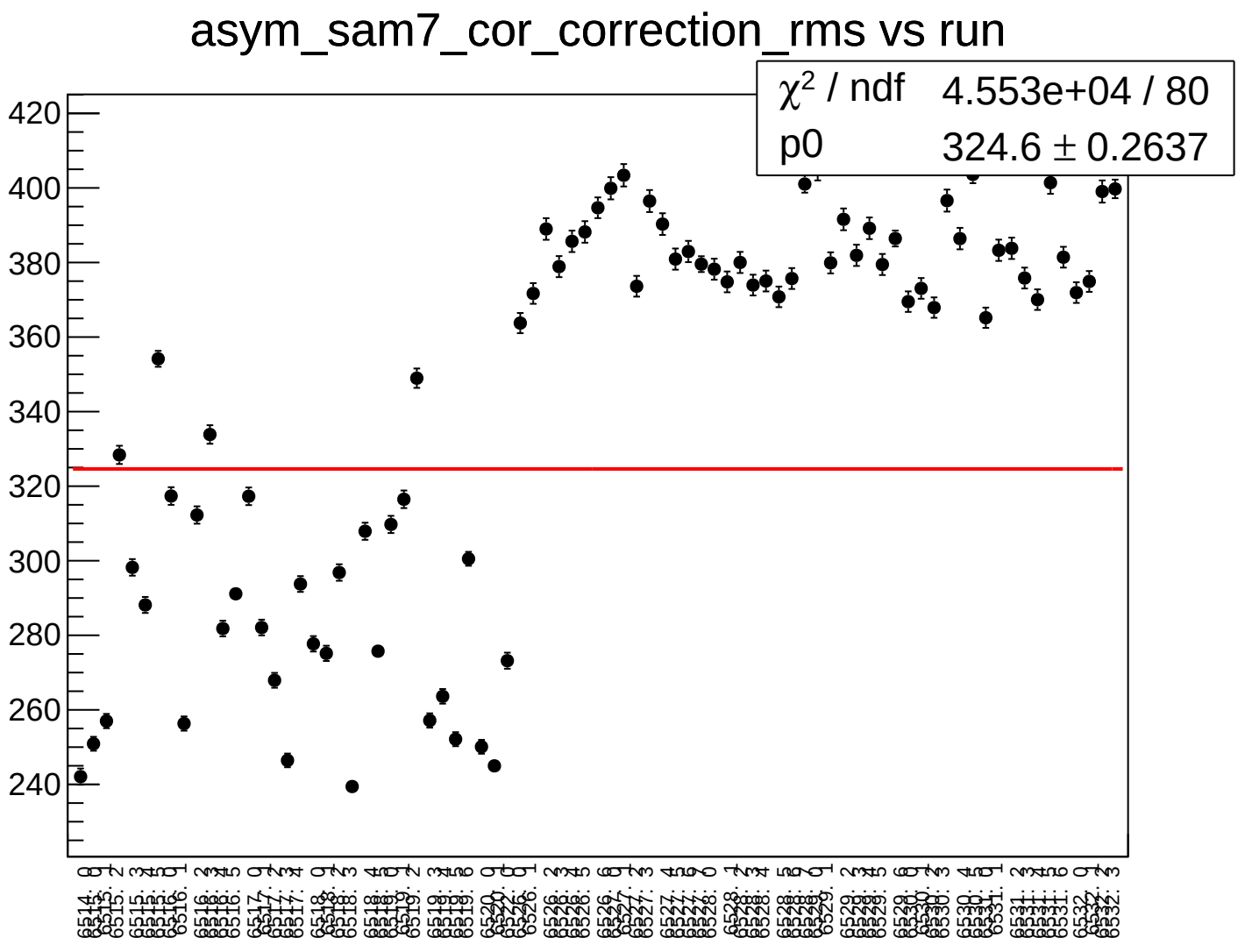

cor_asym_sam7_mean vs run
χ² / ndf 76.31 / 80
p0 56.07 ± 79.3
3000
2000
1000
0
−1000
−2000
pull
Entries 81
Mean −5.707
Std Dev 16.41
3
2
1
0
−1
−2

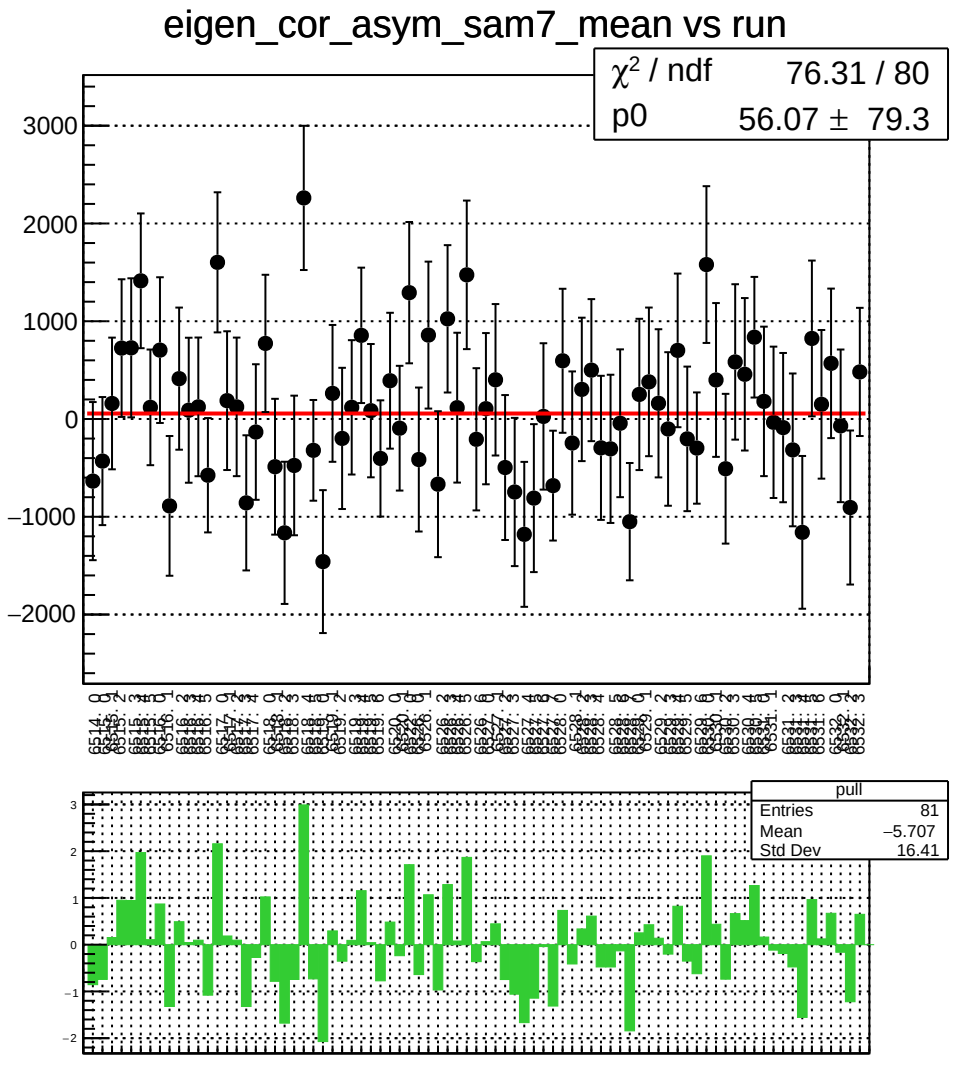

pull1D
Entries 81
Mean 0.01802
Std Dev 0.9704
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

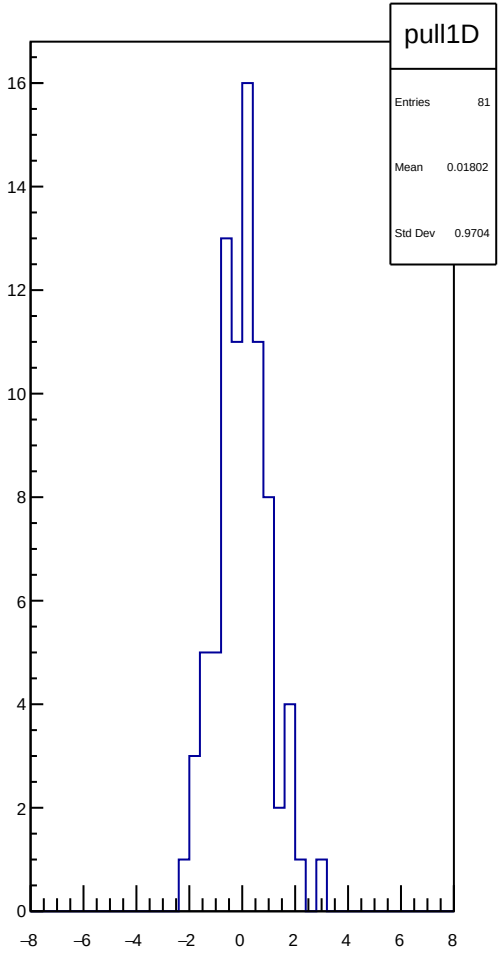

cor_asym_sam7_rms vs run
χ² / ndf 3407 / 80
p0 69.98 ± 0.05608
78
76
74
72
70
68
66
64
62

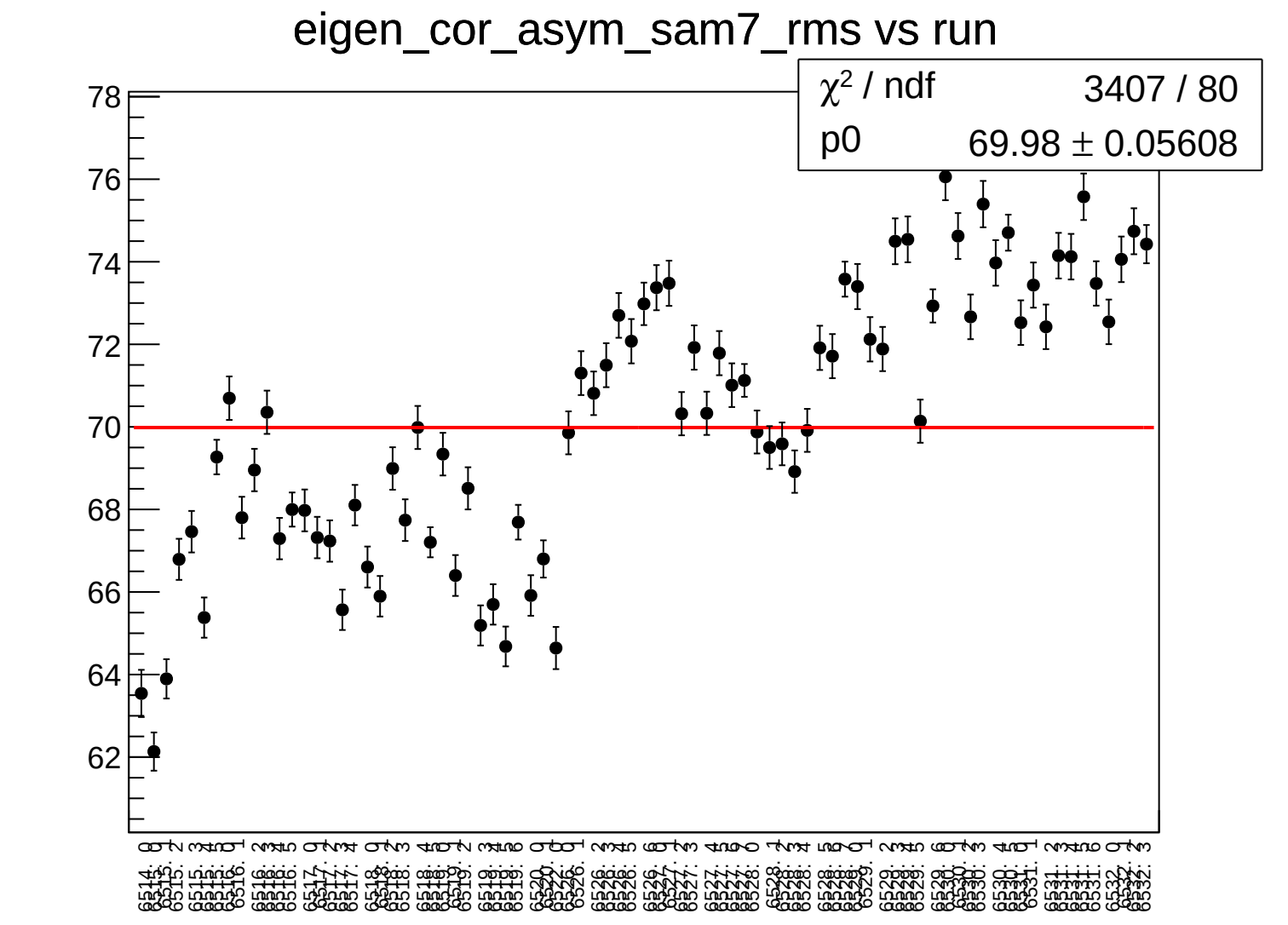

asym_sam7_cor_correction_mean vs run
χ² / ndf 71.96 / 80
p0 170.1 ± 372.9
15000
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 2393
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

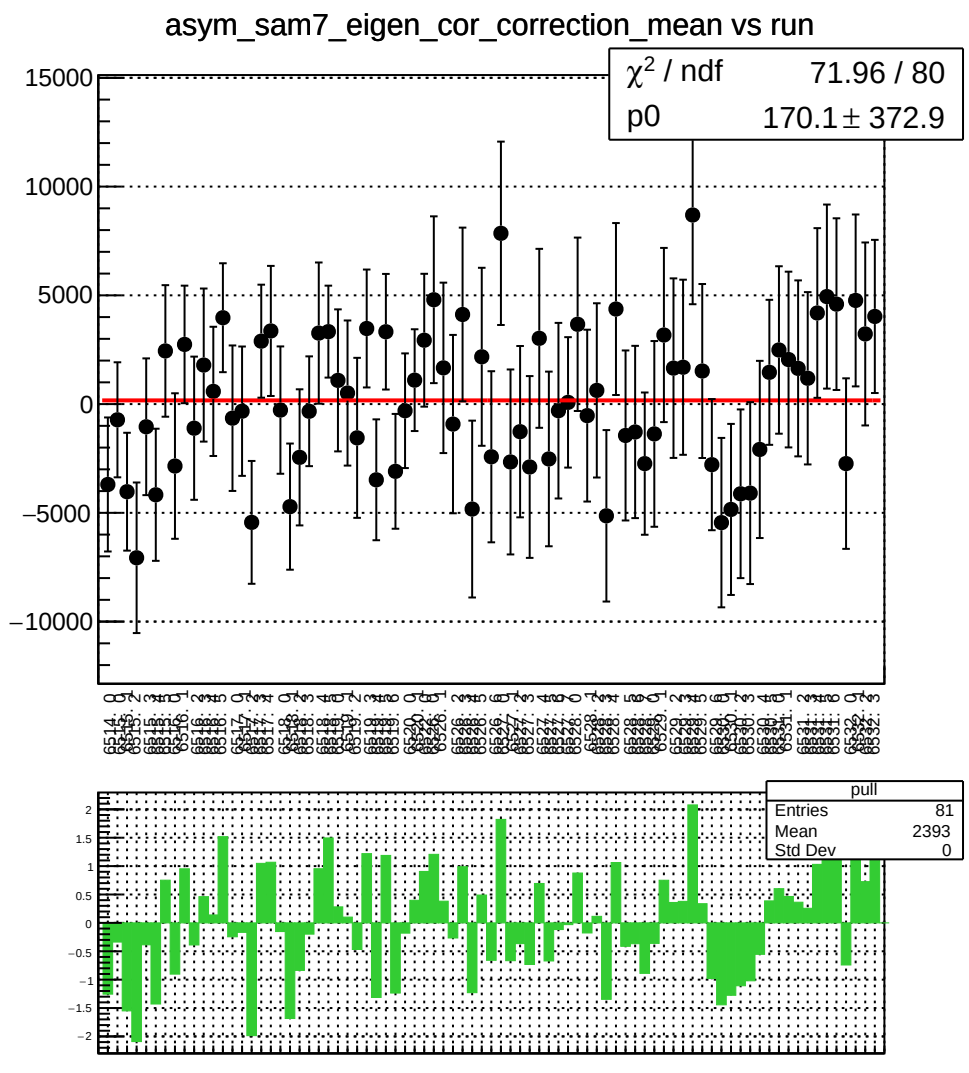

pull1D
Entries 81
Mean 0.001853
Std Dev 0.9426
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

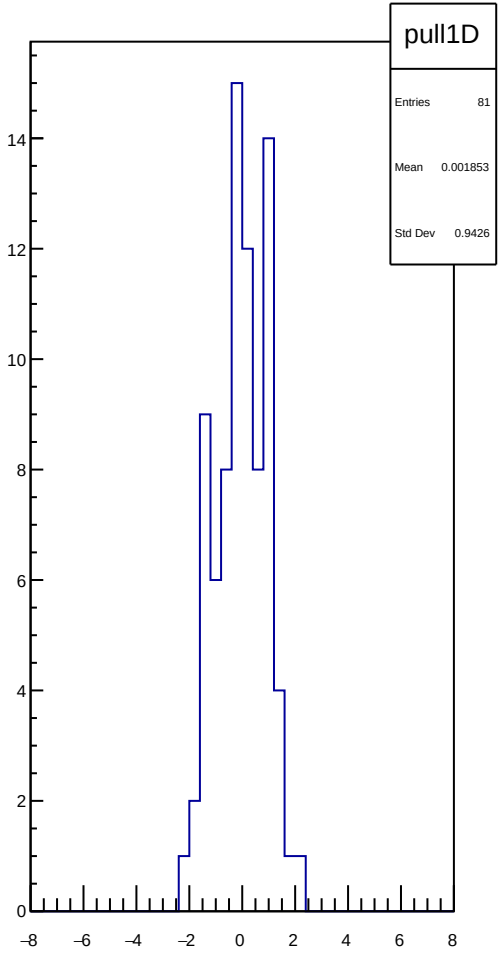

asym_sam7_cor_correction_rms vs run
χ² / ndf 4.553e+04 / 80
p0 324.6 ± 0.2637
420
400
380
360
340
320
300
280
260
240

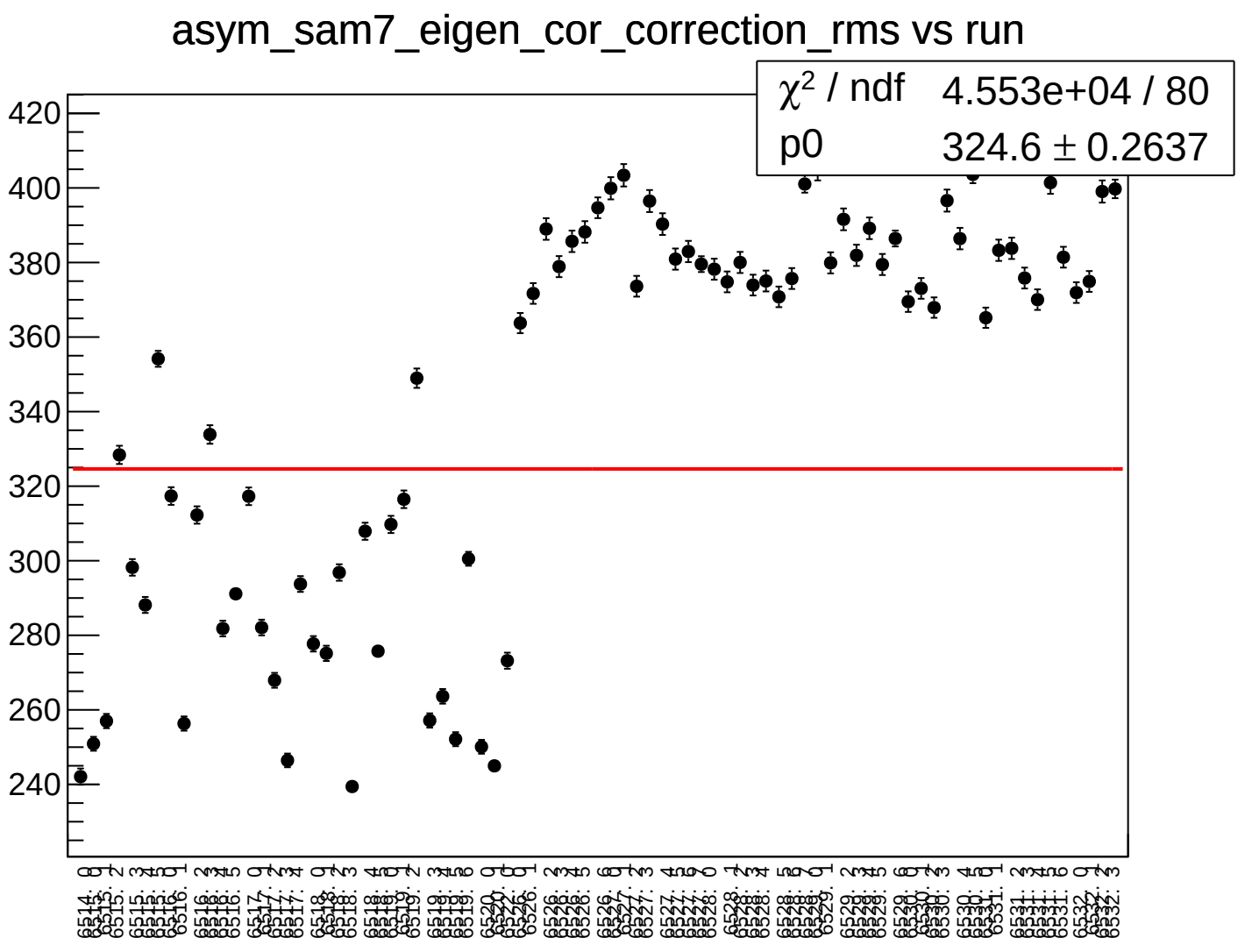

eigen_cor_asym_sam7_mean vs run
χ² / ndf 76.31 / 80
p0 56.07 ± 79.3
3000
2000
1000
0
−1000
−2000
pull
Entries 81
Mean −5.707
Std Dev 16.41
3
2
1
0
−1
−2

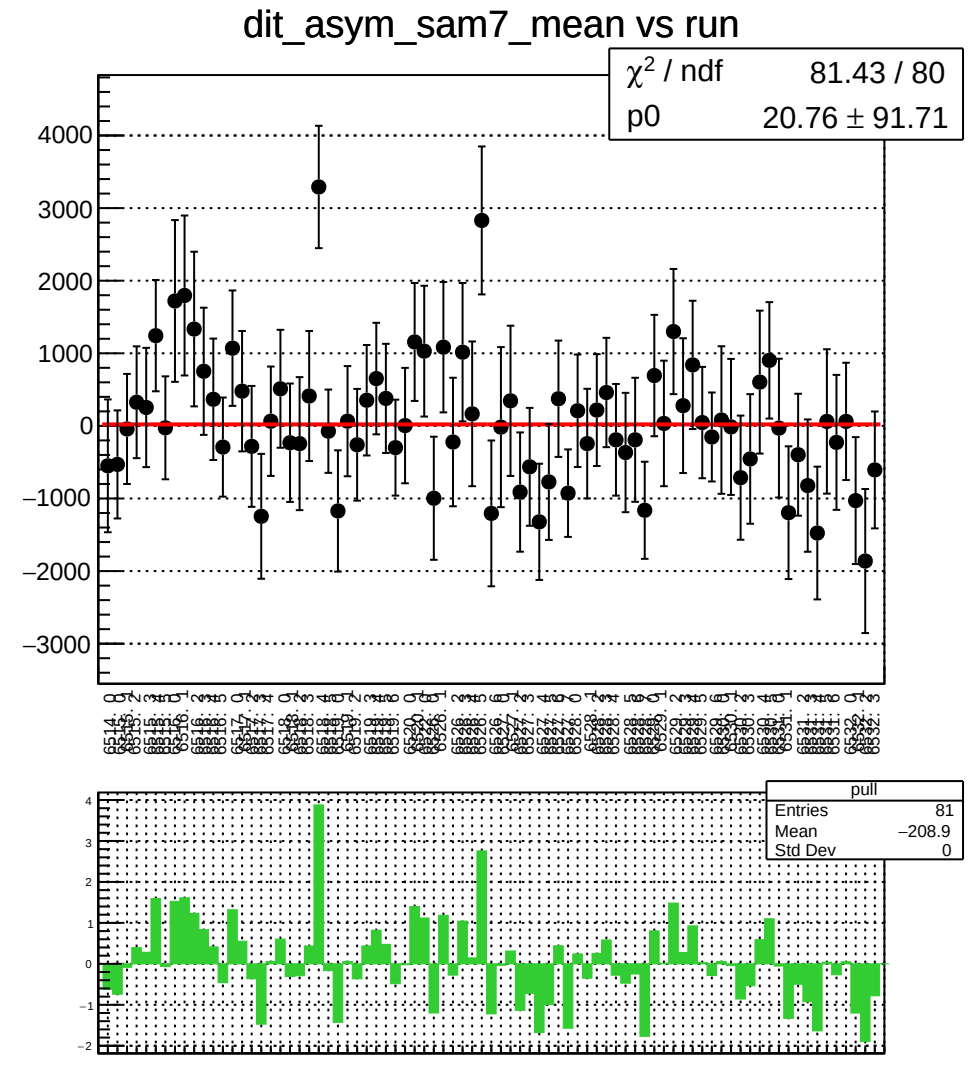

pull1D
Entries 81
Mean 0.01802
Std Dev 0.9704
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

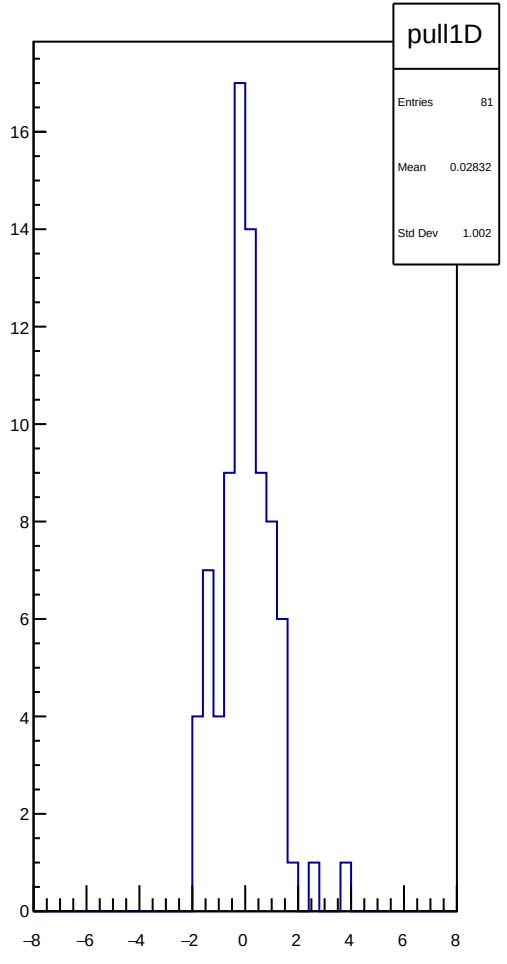

eigen_cor_asym_sam7_rms vs run
χ² / ndf 3407 / 80
p0 69.98 ± 0.05608
78
76
74
72
70
68
66
64
62

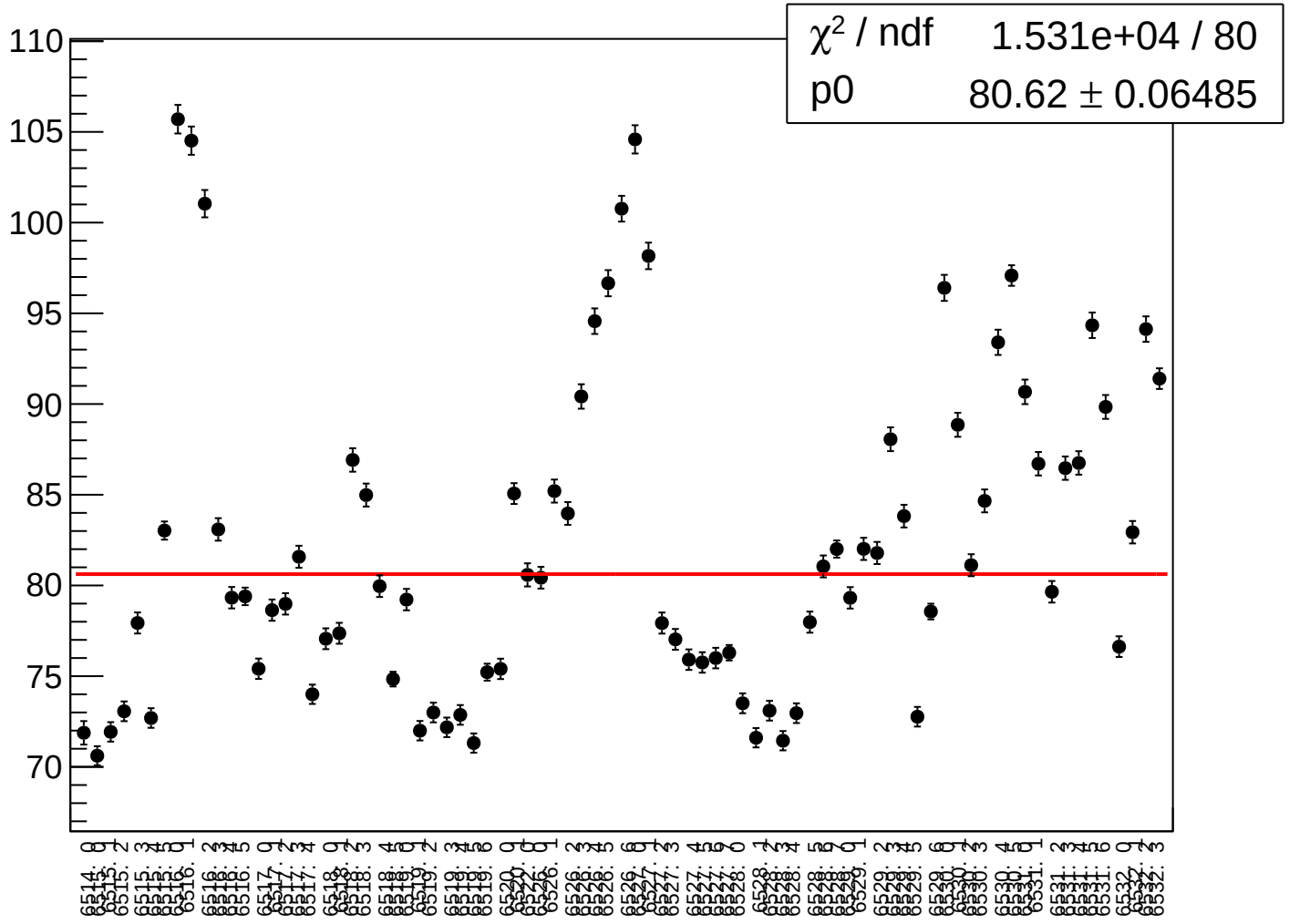

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 71.96 / 80
p0 170.1 ± 372.9
15000
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 2393
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

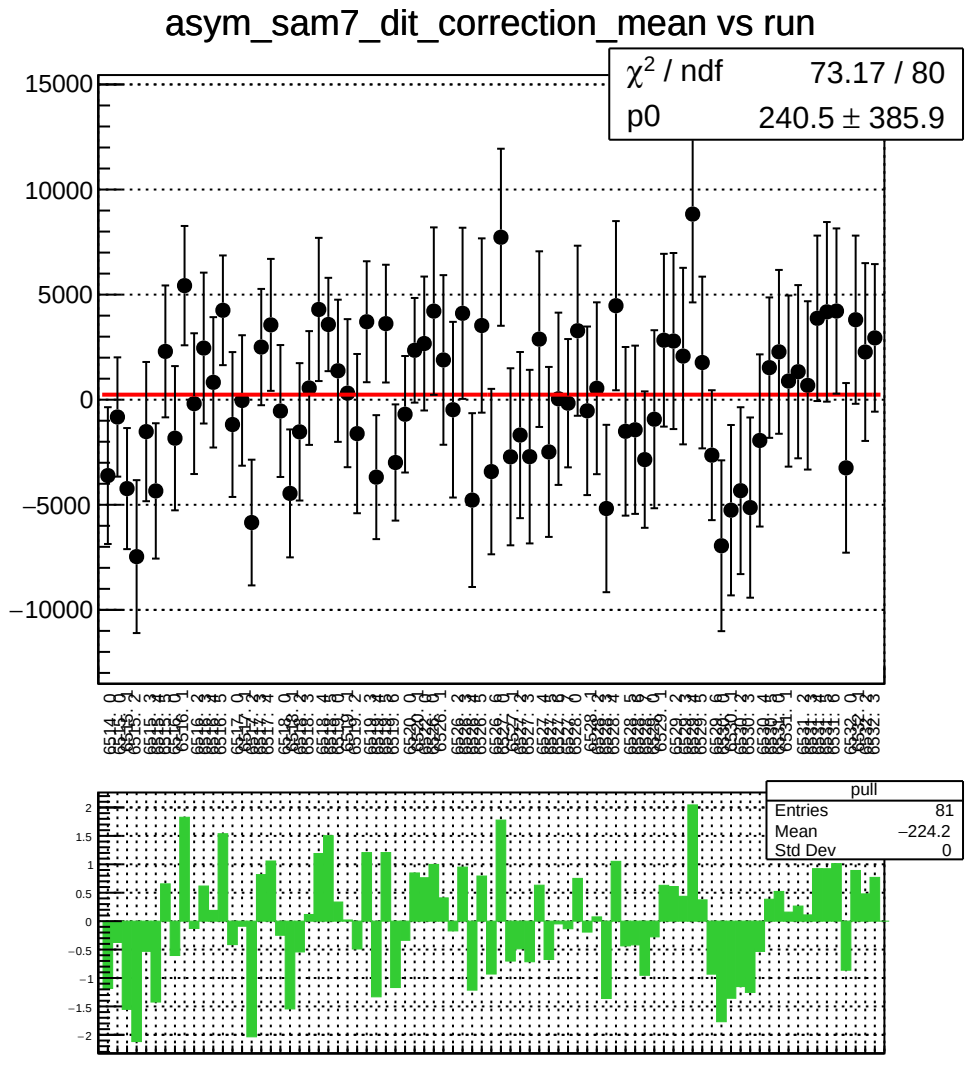

pull1D
Entries 81
Mean 0.001853
Std Dev 0.9426
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

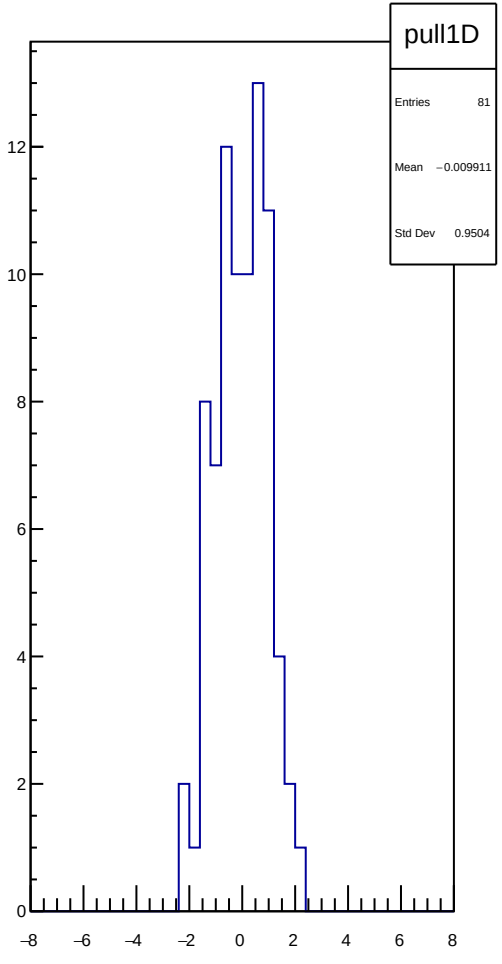

asym_sam7_eigen_cor_correction_rms vs run
χ² / ndf 4.553e+04 / 80
p0 324.6 ± 0.2637
420
400
380
360
340
320
300
280
260
240

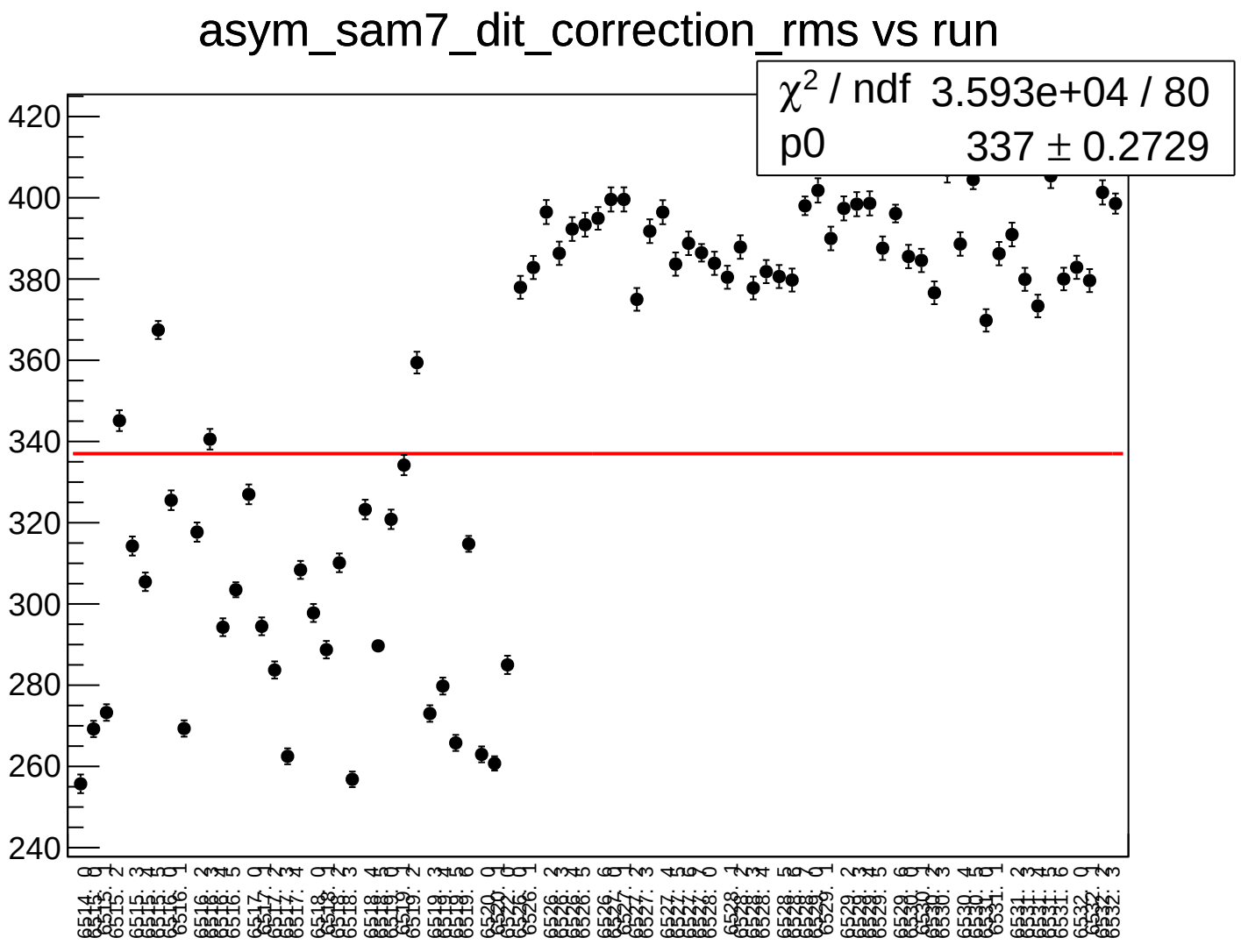

dit_asym_sam7_mean vs run
χ² / ndf 81.43 / 80
p0 20.76 ± 91.71
pull
Entries 81
Mean −208.9
Std Dev 0

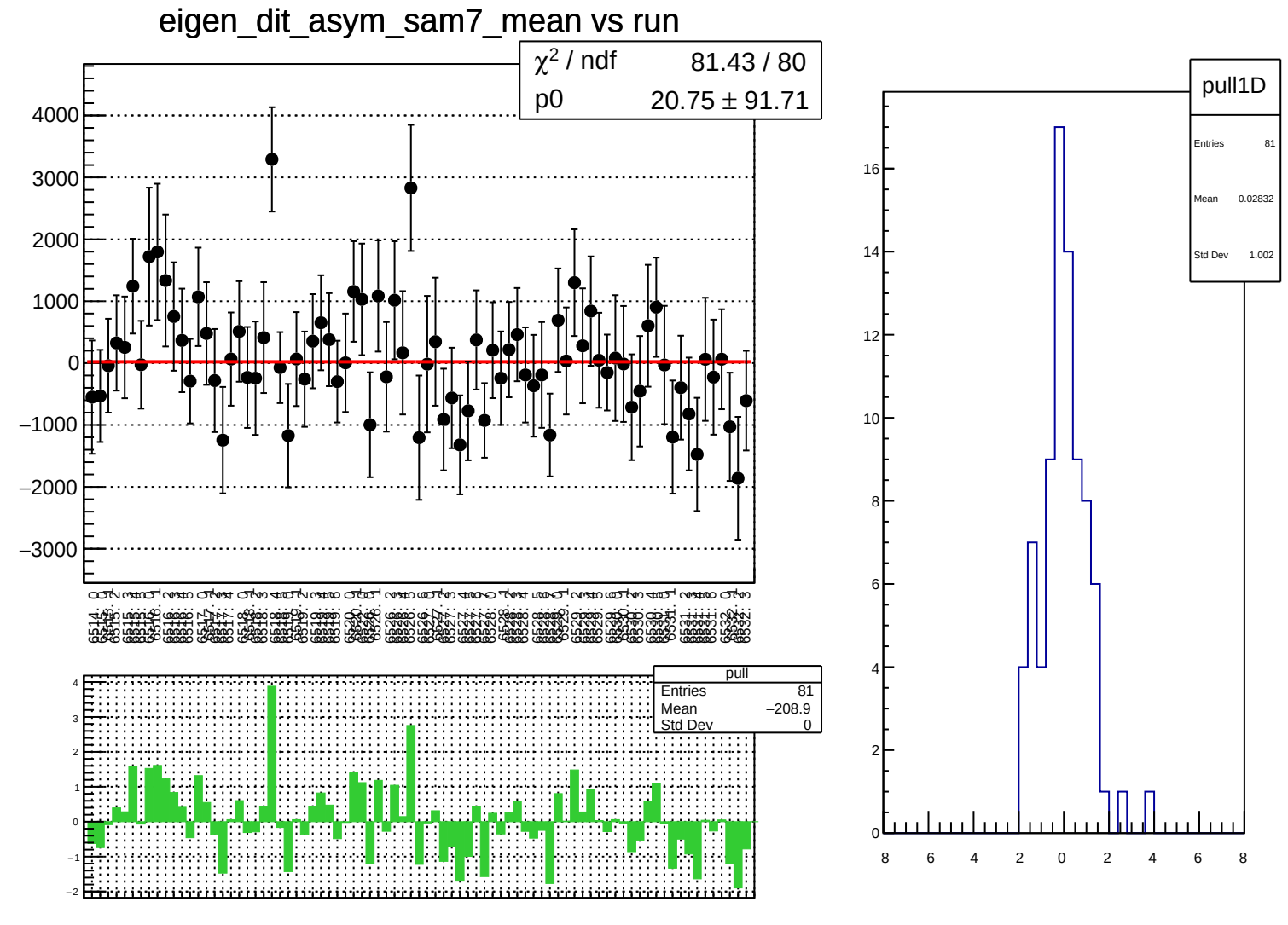

pull1D
Entries 81
Mean 0.02832
Std Dev 1.002

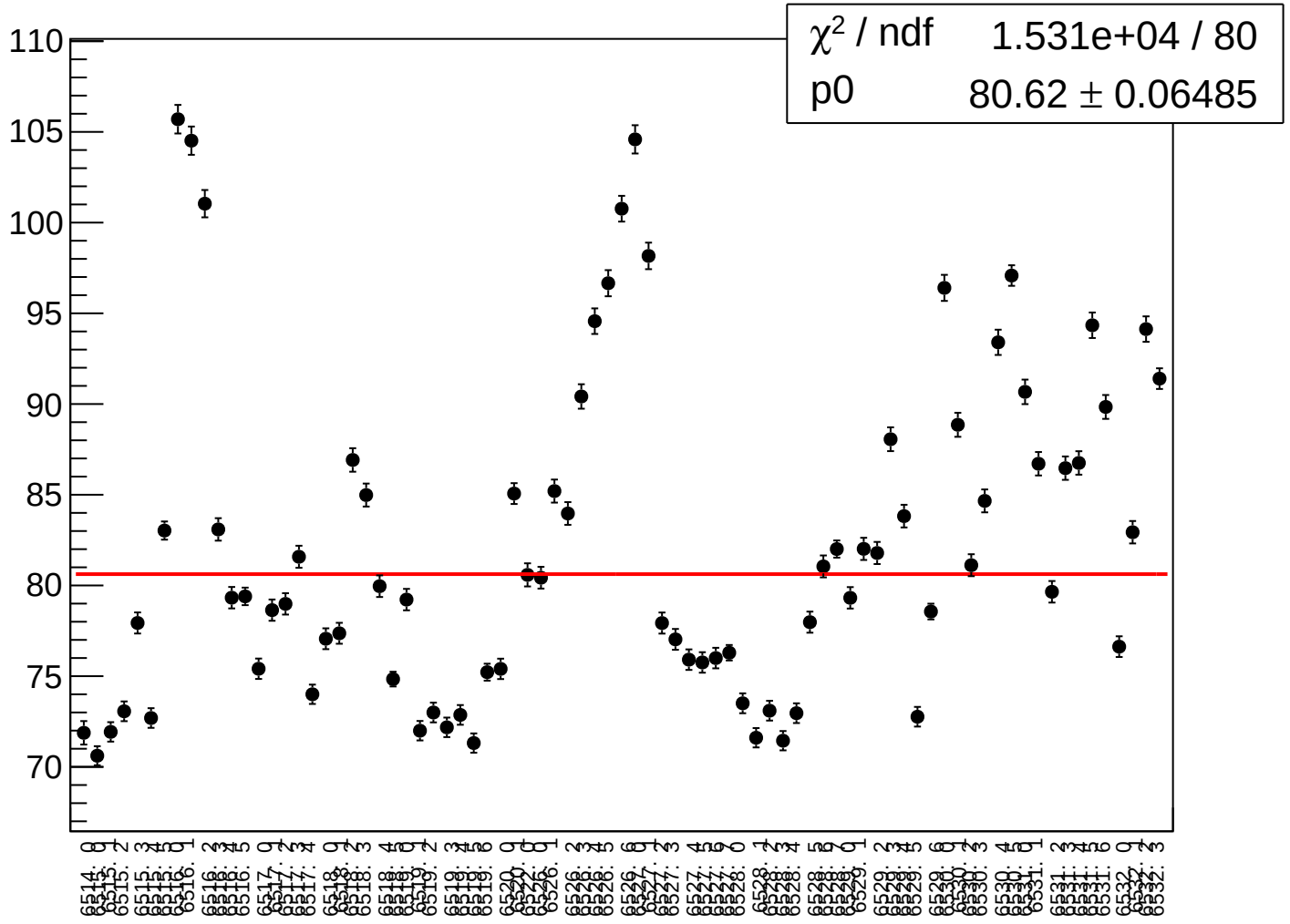

dit_asym_sam7_rms vs run
χ^2 / ndf 1.531e+04 / 80
p0 80.62 ± 0.06485
110
105
100
95
90
85
80
75
70

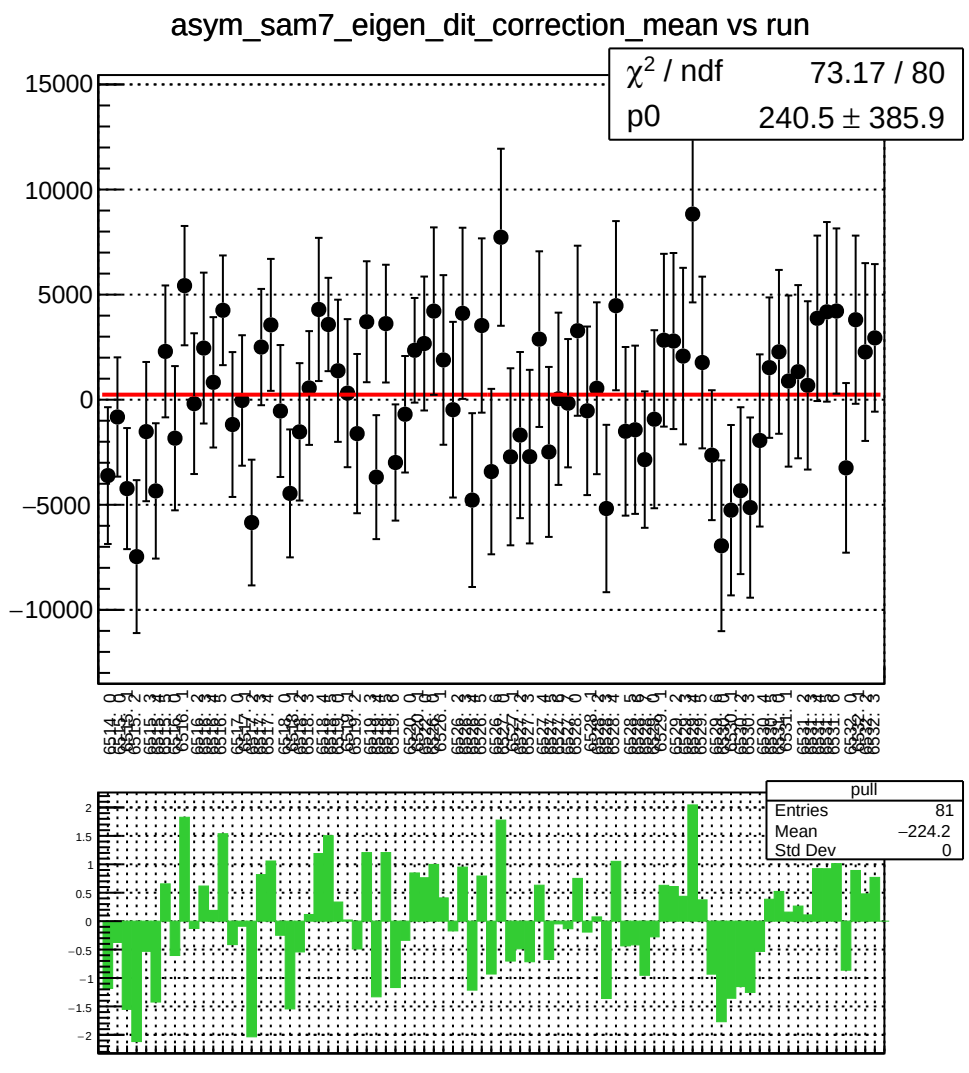

asym_sam7_dit_correction_mean vs run
χ² / ndf 73.17 / 80
p0 240.5 ± 385.9
15000
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −224.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

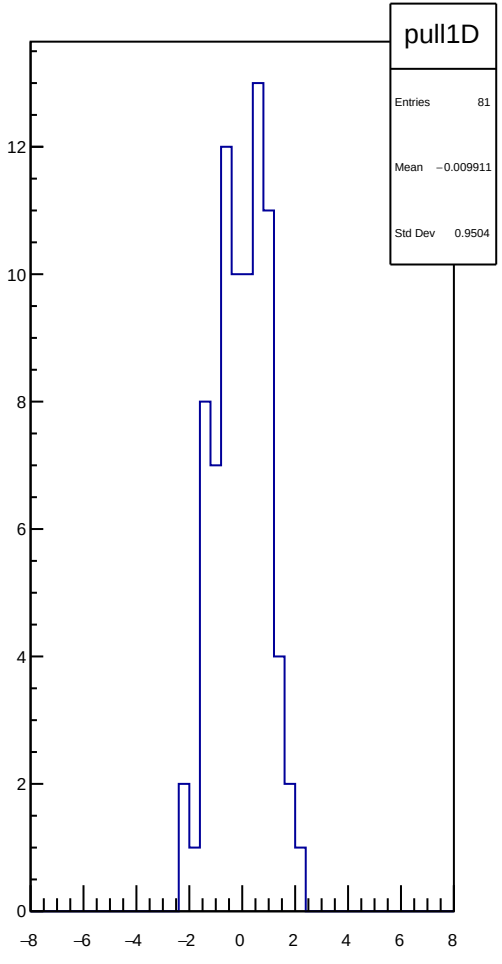

pull1D
Entries 81
Mean −0.009911
Std Dev 0.9504
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

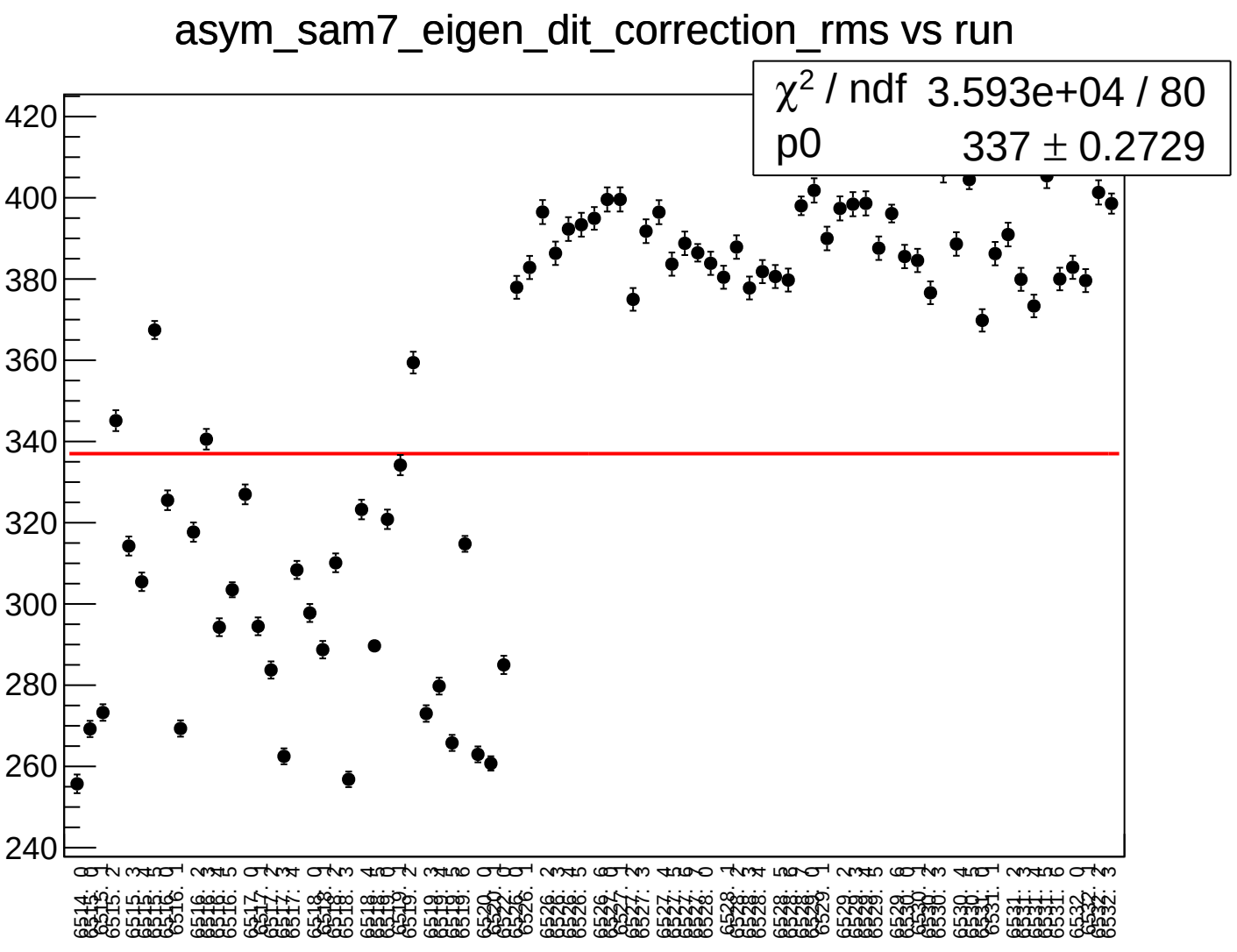

asym_sam7_dit_correction_rms vs run
χ² / ndf 3.593e+04 / 80
p0 337 ± 0.2729
420
400
380
360
340
320
300
280
260
240

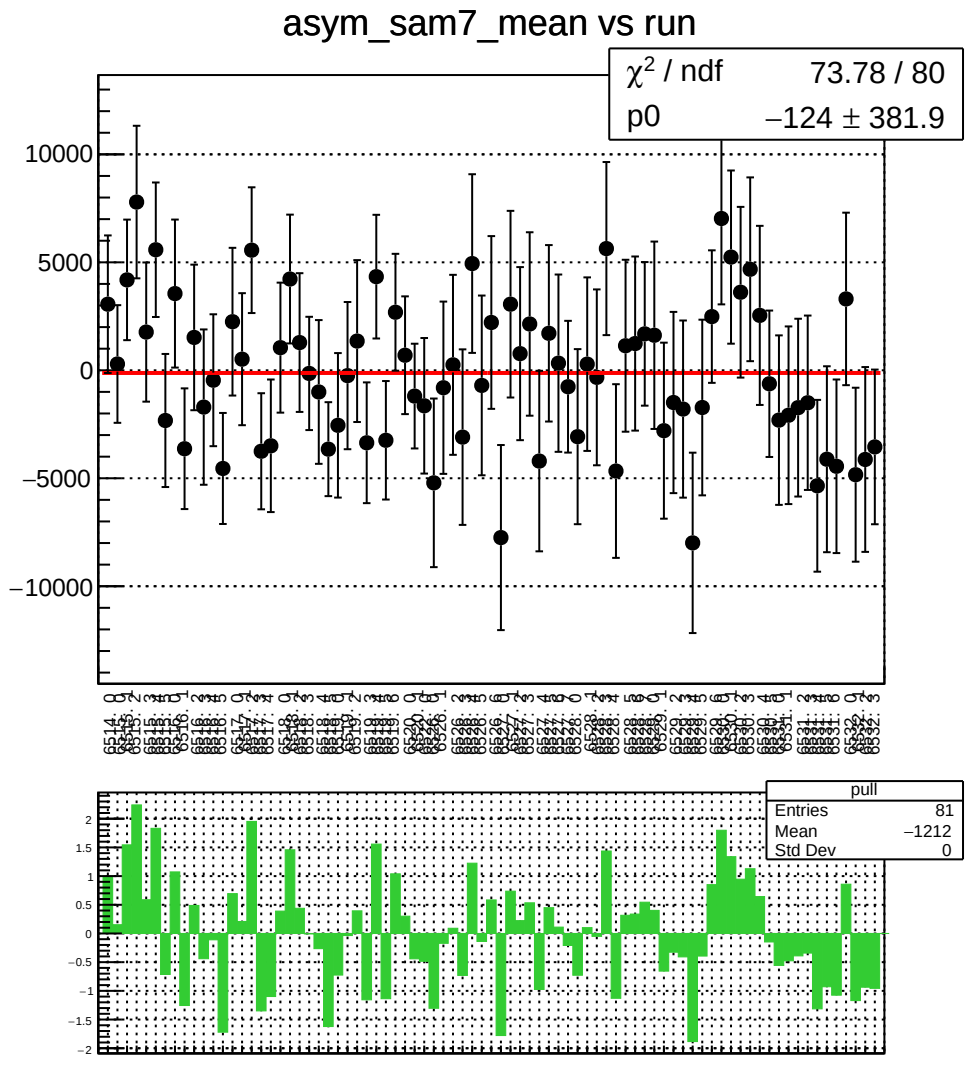

eigen_dit_asym_sam7_mean vs run
χ² / ndf 81.43 / 80
p0 20.75 ± 91.71
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 81
Mean −208.9
Std Dev 0
pull1D
Entries 81
Mean 0.02832
Std Dev 1.002
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

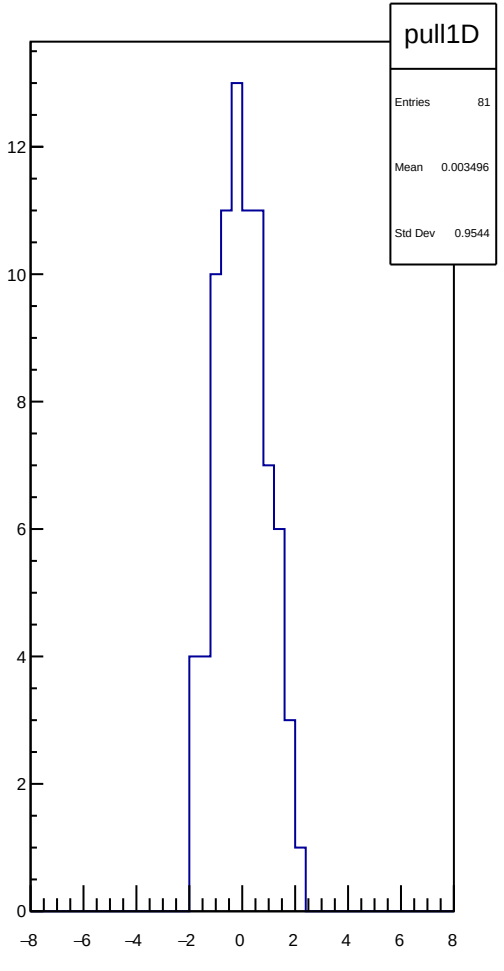

eigen_dit_asym_sam7_rms vs run
χ² / ndf 1.531e+04 / 80
p0 80.62 ± 0.06485
110
105
100
95
90
85
80
75
70

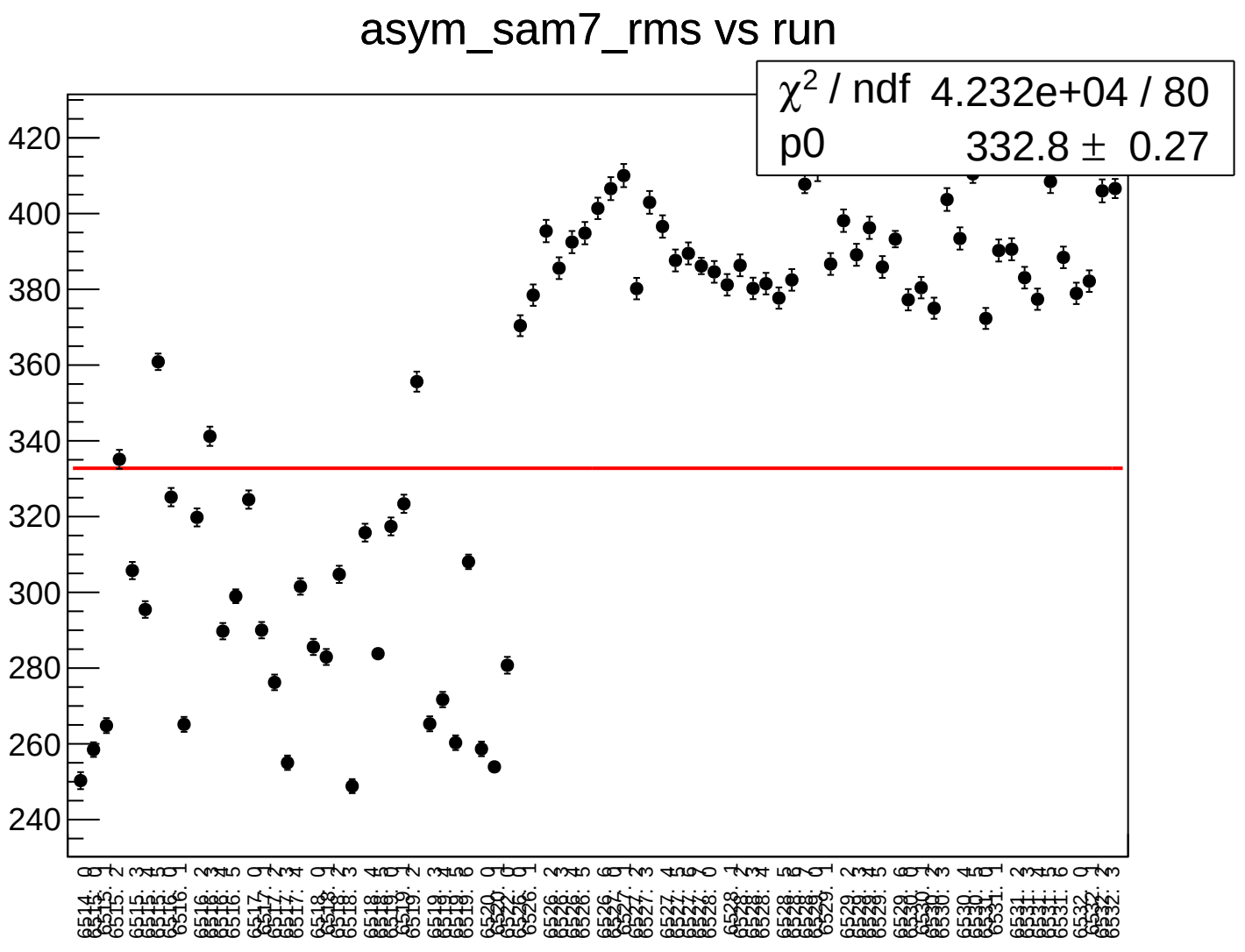

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 73.17 / 80
p0 240.5 ± 385.9
15000
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −224.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

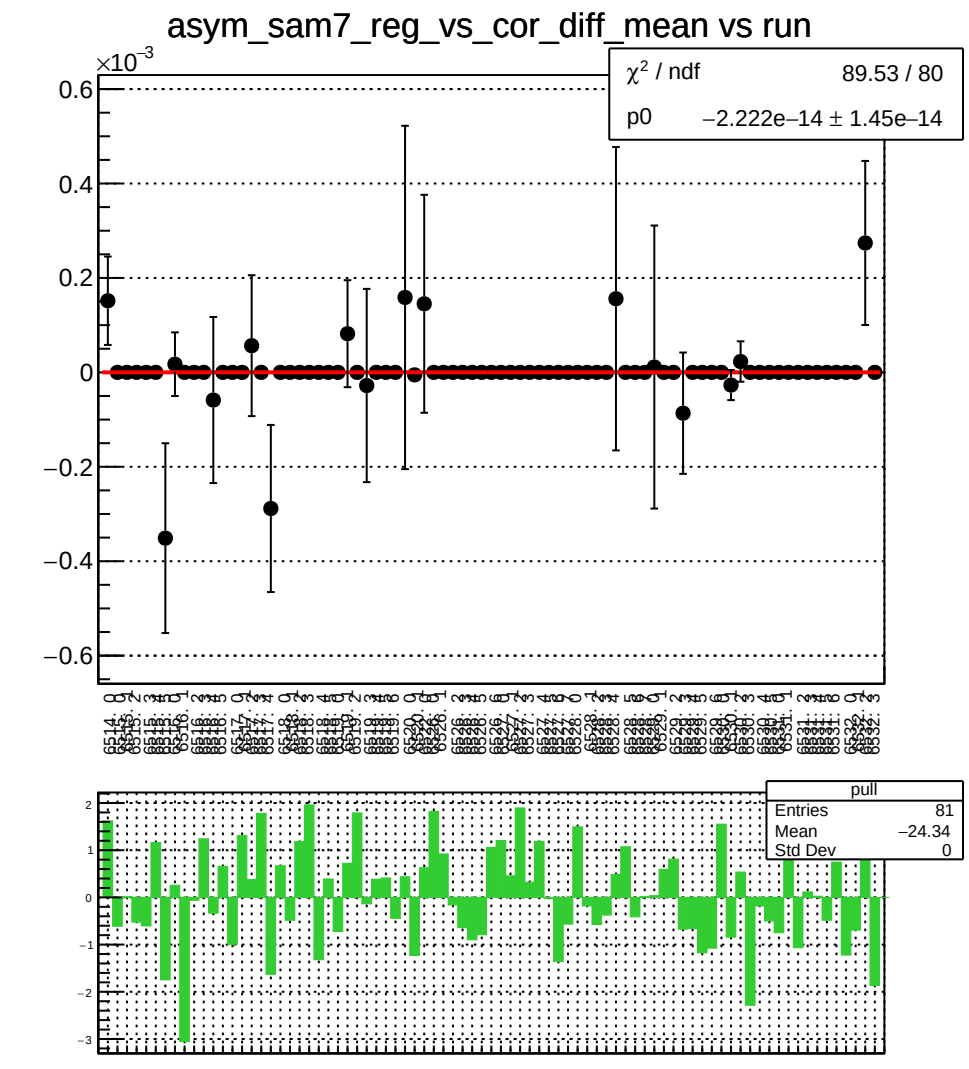

pull1D
Entries 81
Mean −0.009911
Std Dev 0.9504
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

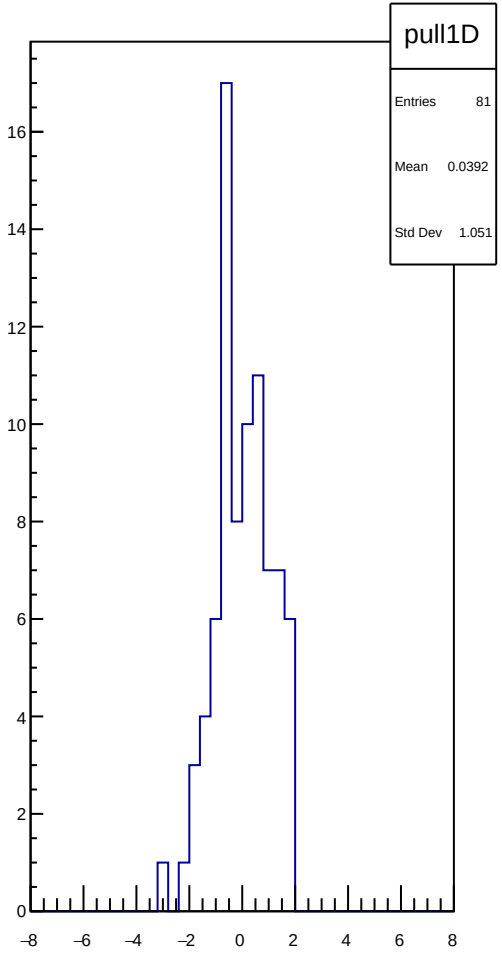

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 3.593e+04 / 80
p0 337 ± 0.2729
420
400
380
360
340
320
300
280
260
240

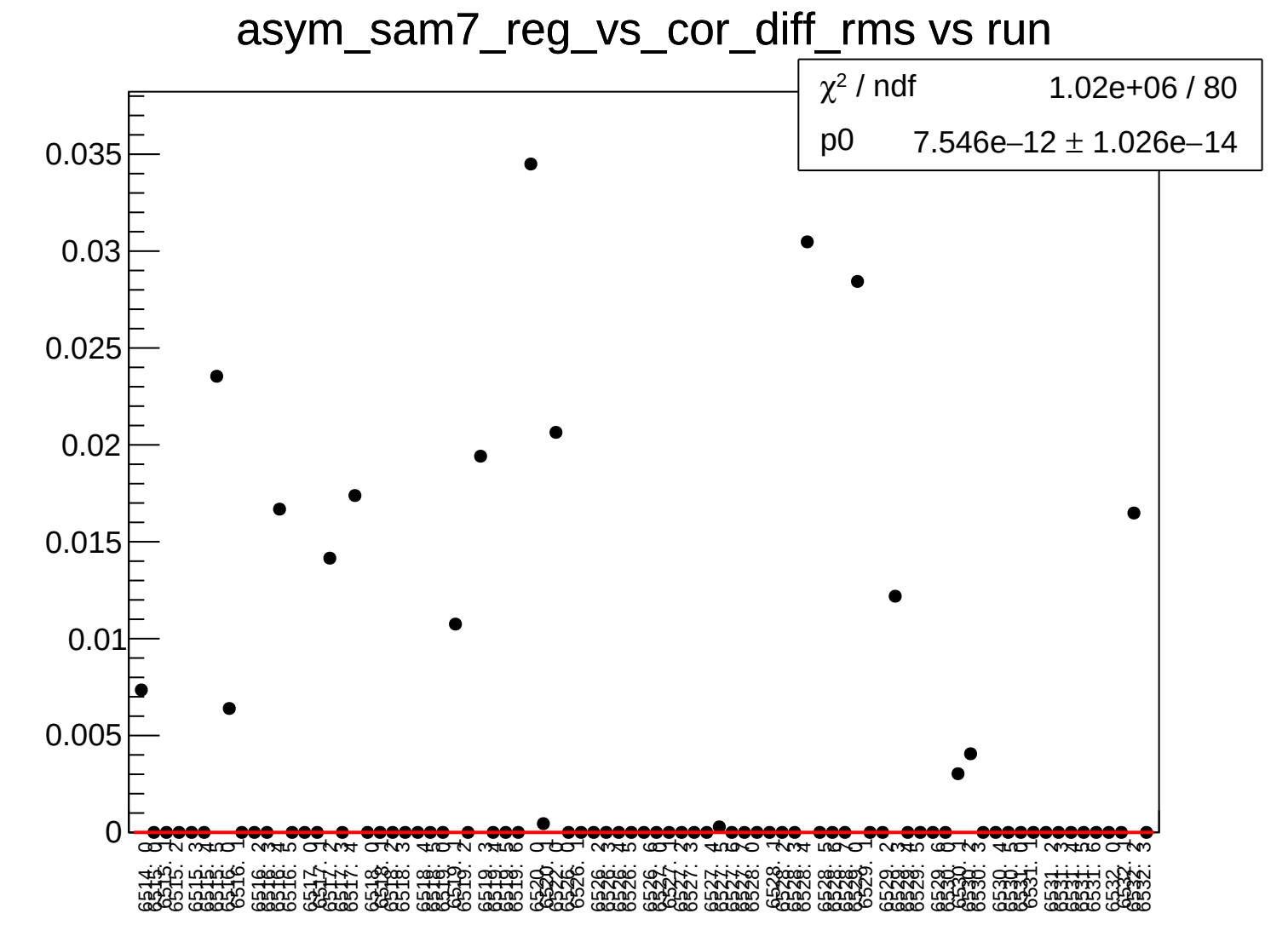

asym_sam7_mean vs run
χ² / ndf 73.78 / 80
p0 −124 ± 381.9
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −1212
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

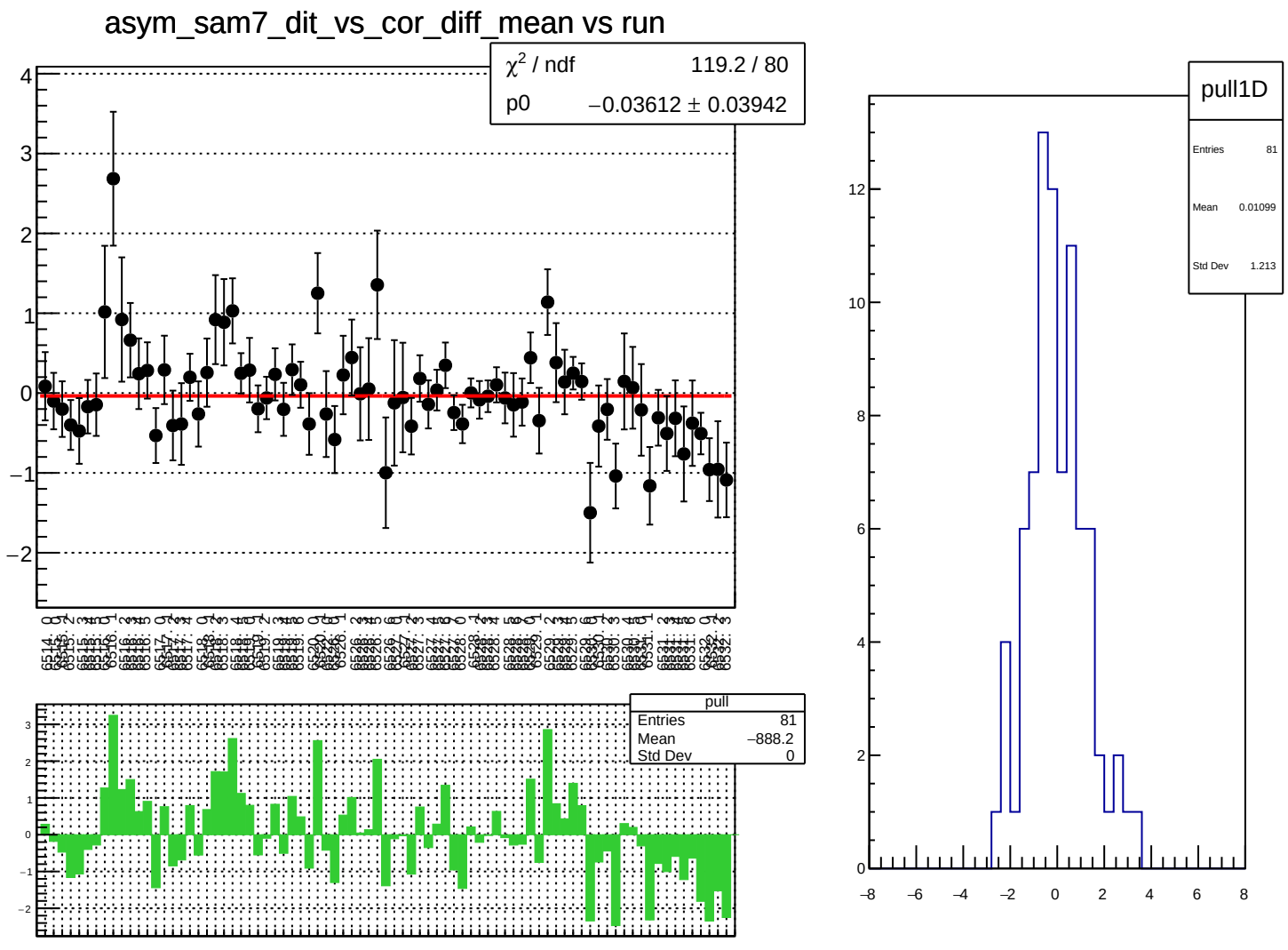

pull1D
Entries 81
Mean 0.003496
Std Dev 0.9544
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

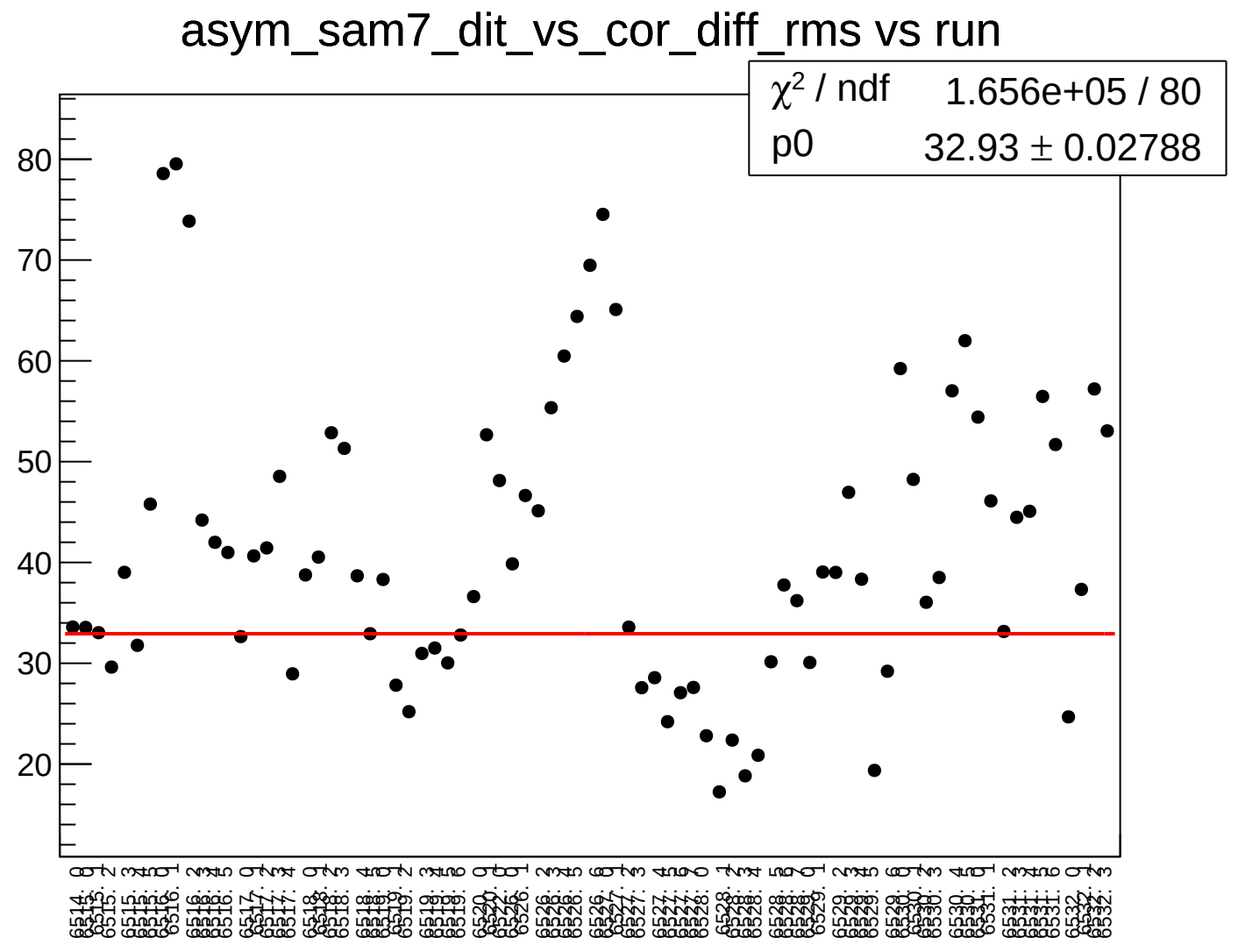

asym_sam7_rms vs run
χ² / ndf 4.232e+04 / 80
p0 332.8 ± 0.27
420
400
380
360
340
320
300
280
260
240

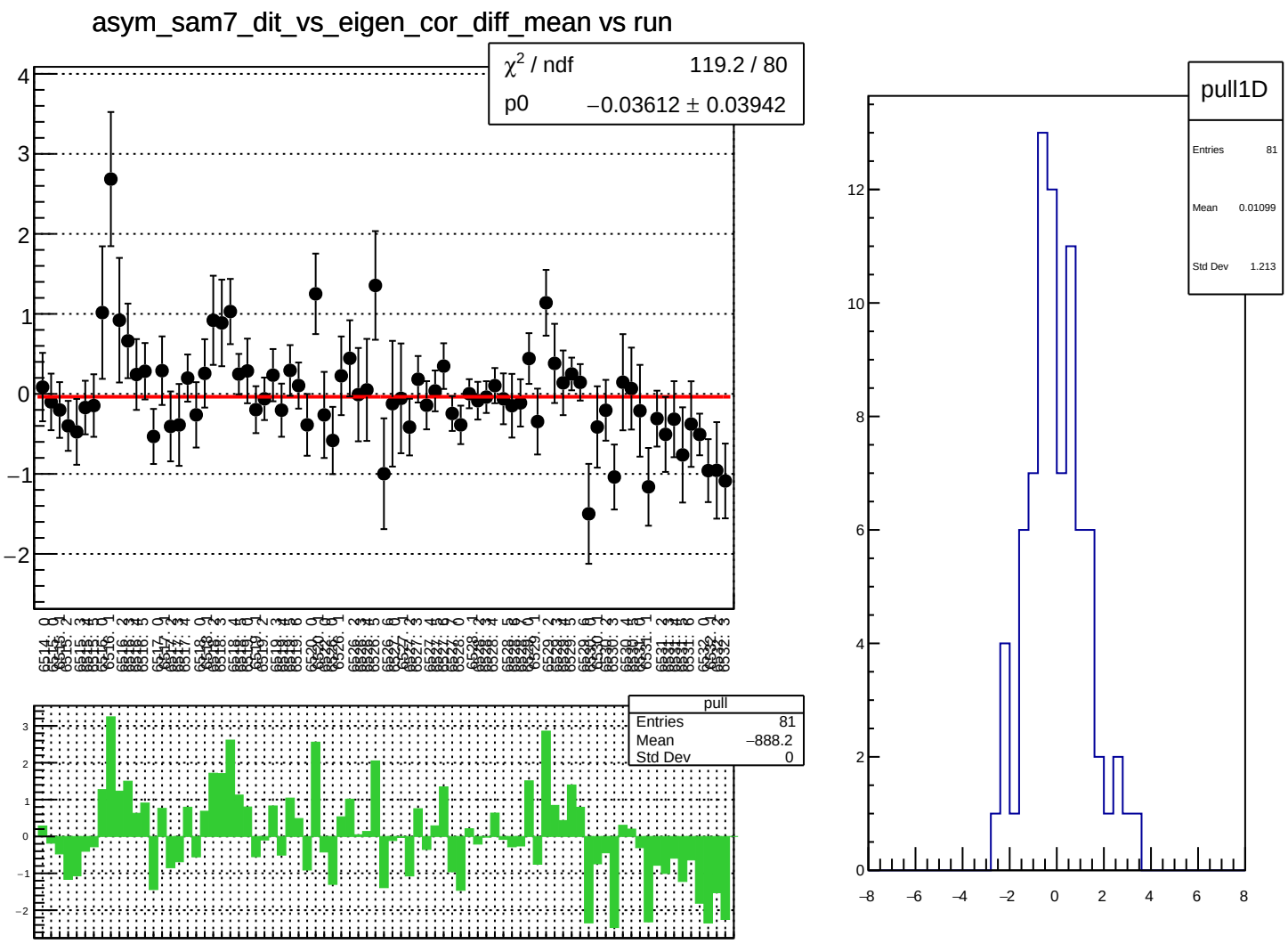

asym_sam7_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 89.53 / 80
p0 −2.222e−14 ± 1.45e−14
pull
Entries 81
Mean −24.34
Std Dev 0

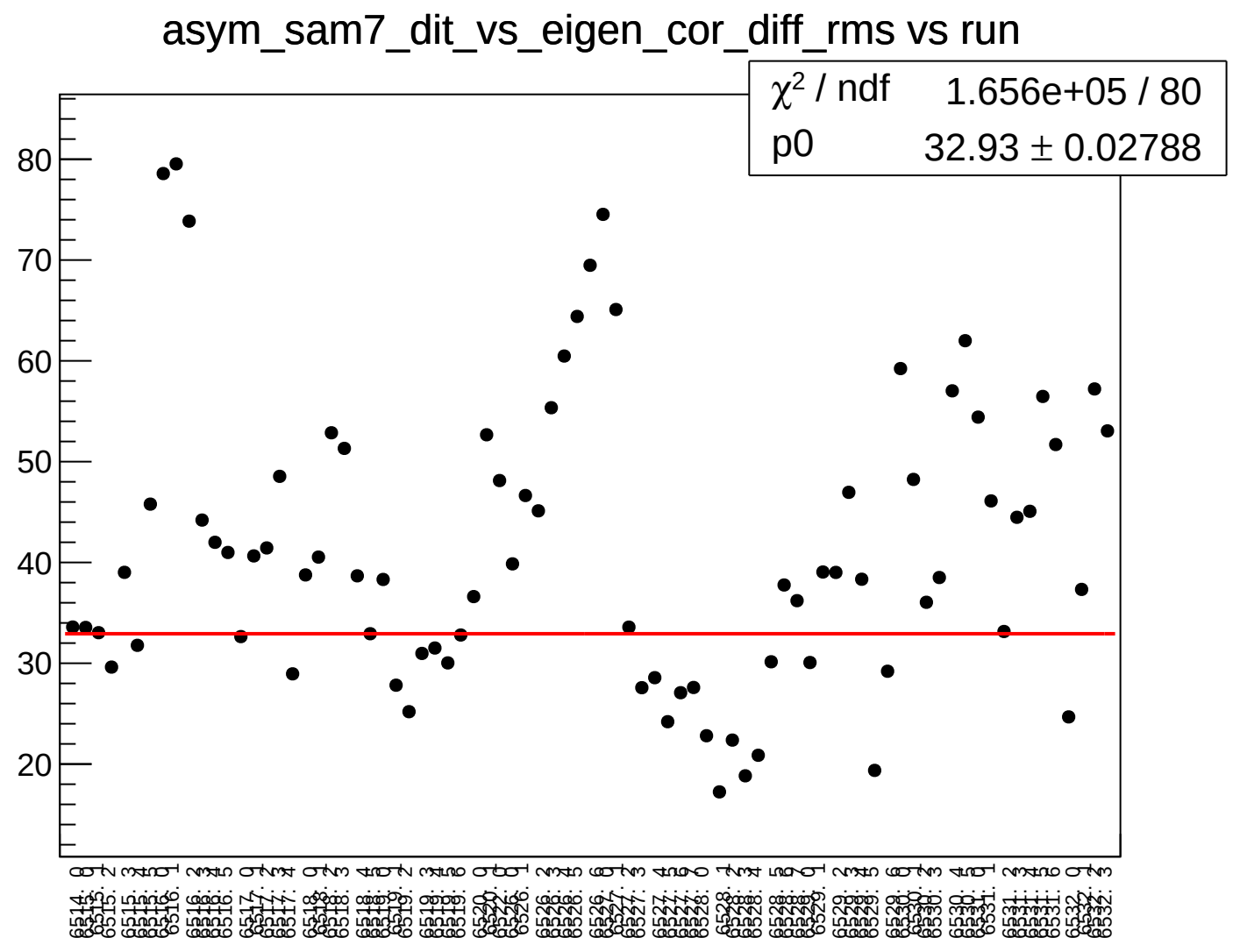

pull1D
Entries 81
Mean 0.0392
Std Dev 1.051

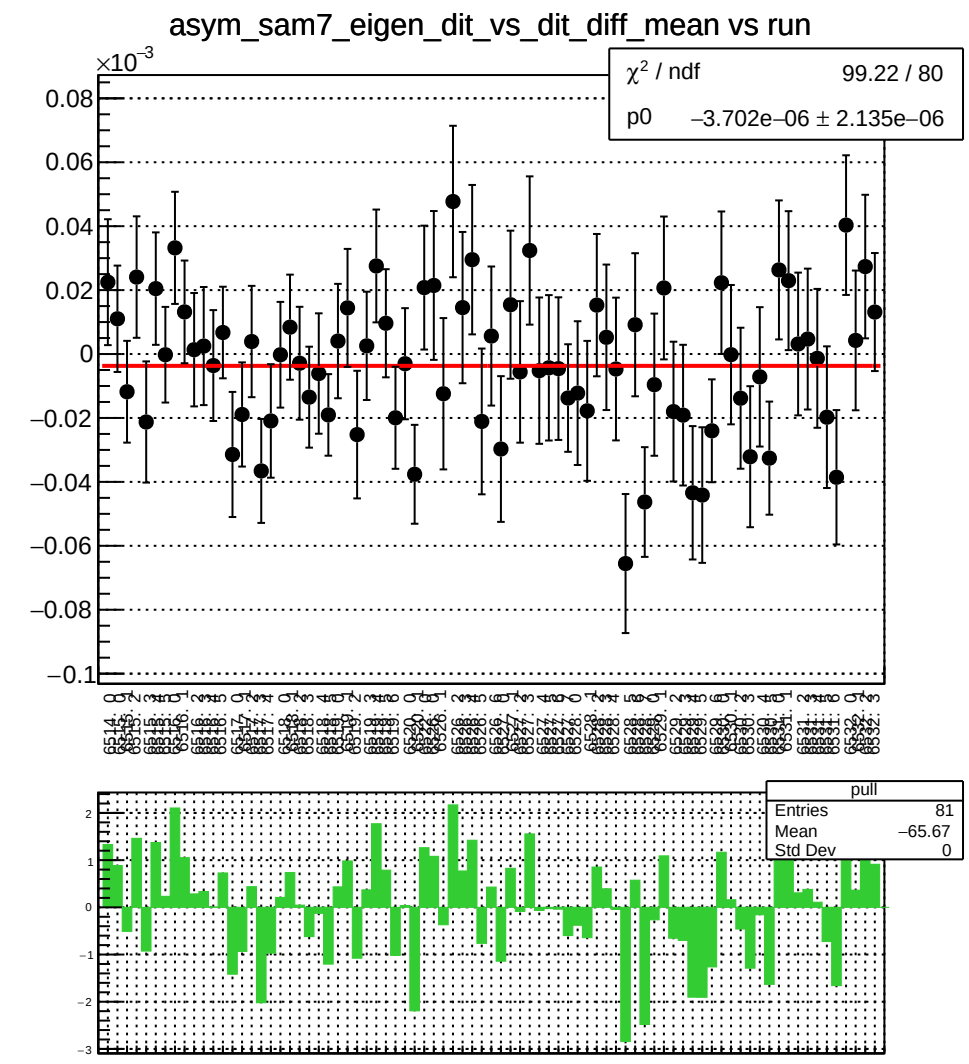

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 1.02e+06 / 80
p0 7.546e−12 ± 1.026e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

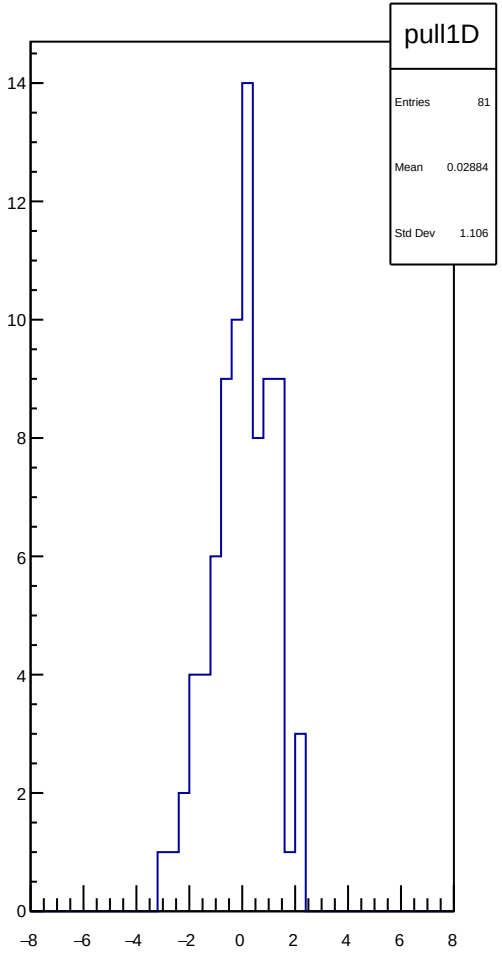

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 119.2 / 80
p0 −0.03612 ± 0.03942
pull
Entries 81
Mean −888.2
Std Dev 0
pull1D
Entries 81
Mean 0.01099
Std Dev 1.213

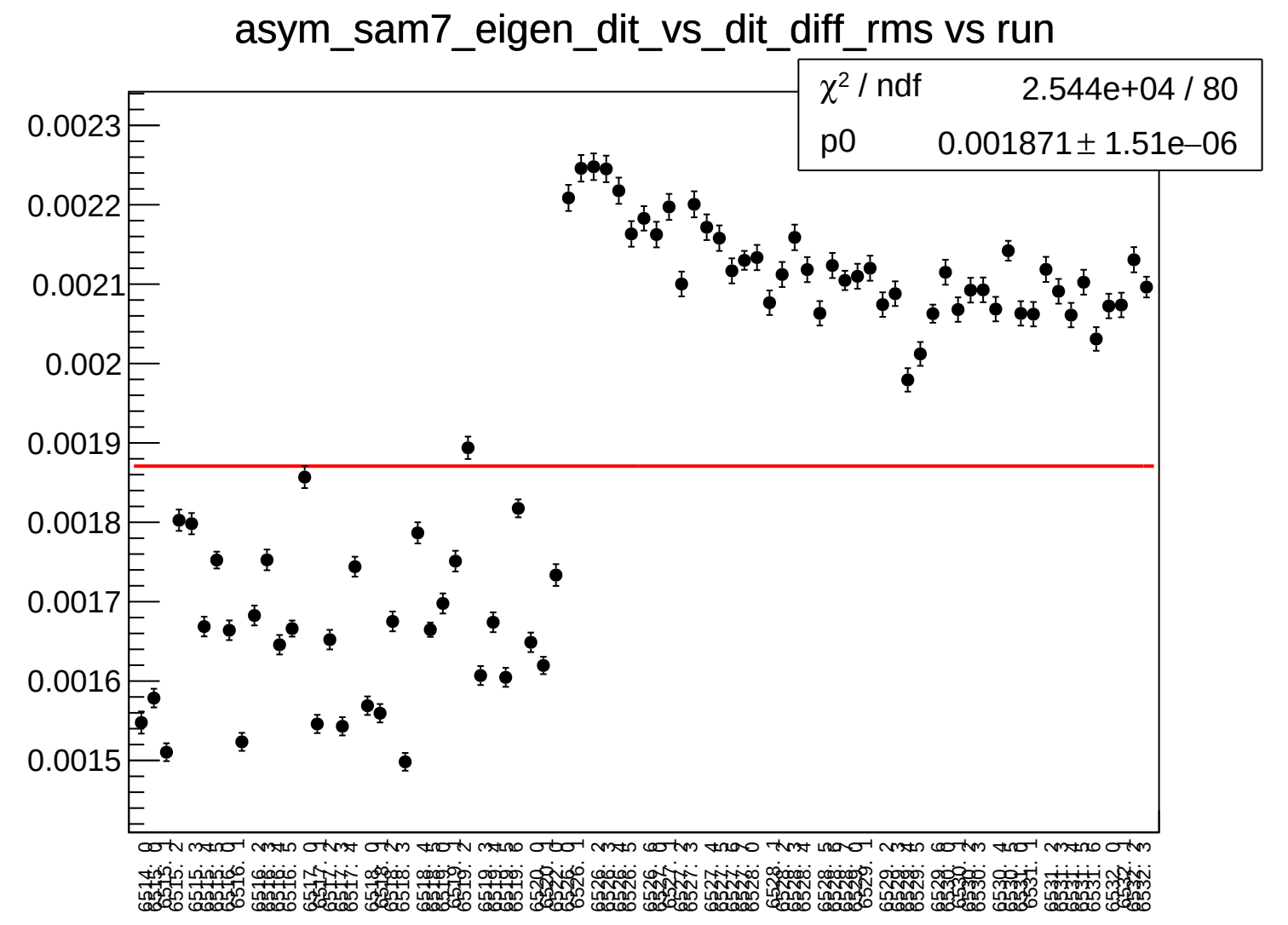

asym_sam7_dit_vs_cor_diff_rms vs run
χ² / ndf 1.656e+05 / 80
p0 32.93 ± 0.02788
80
70
60
50
40
30
20

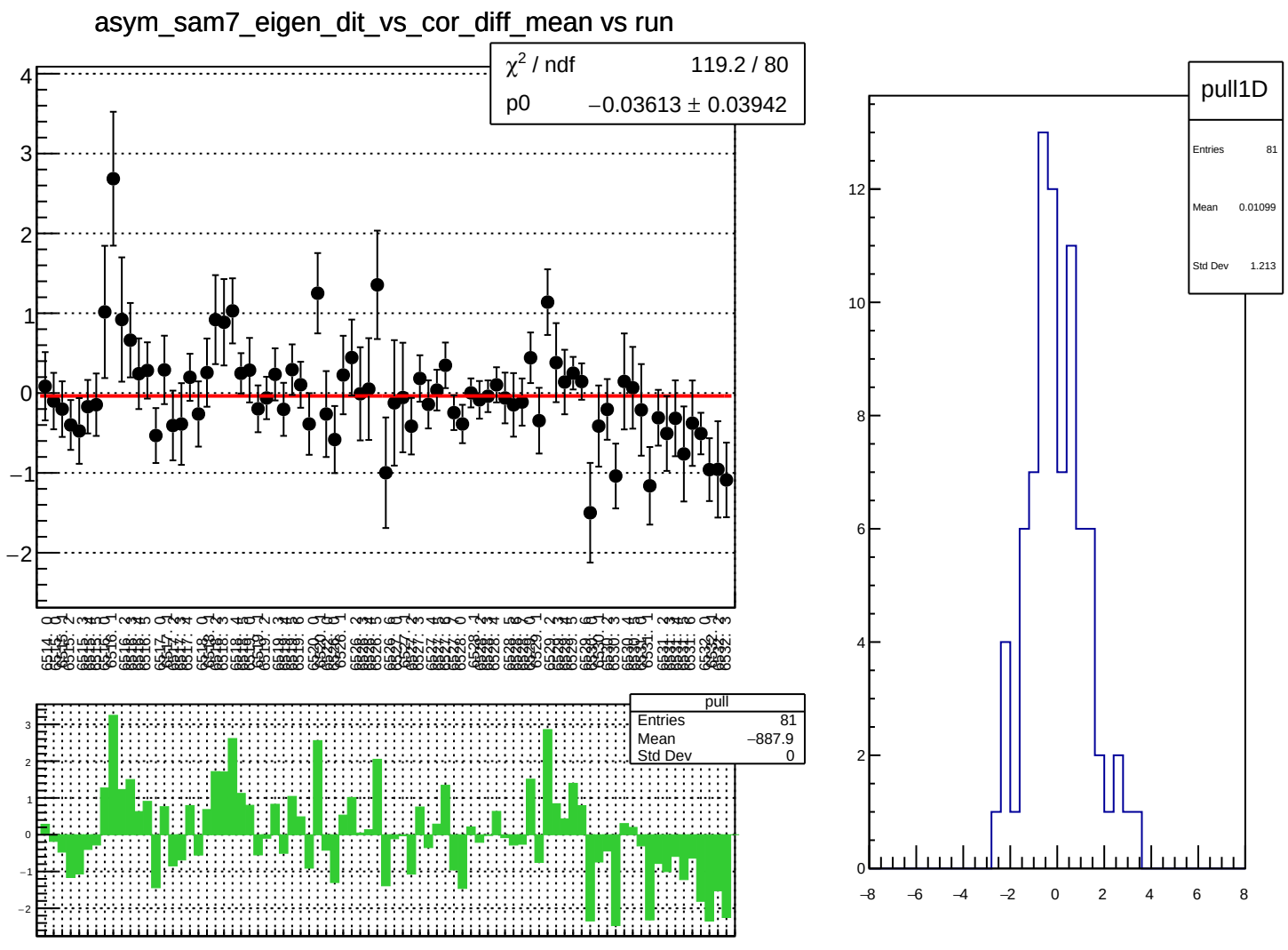

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 119.2 / 80
p0 −0.03612 ± 0.03942
pull
Entries 81
Mean −888.2
Std Dev 0
pull1D
Entries 81
Mean 0.01099
Std Dev 1.213

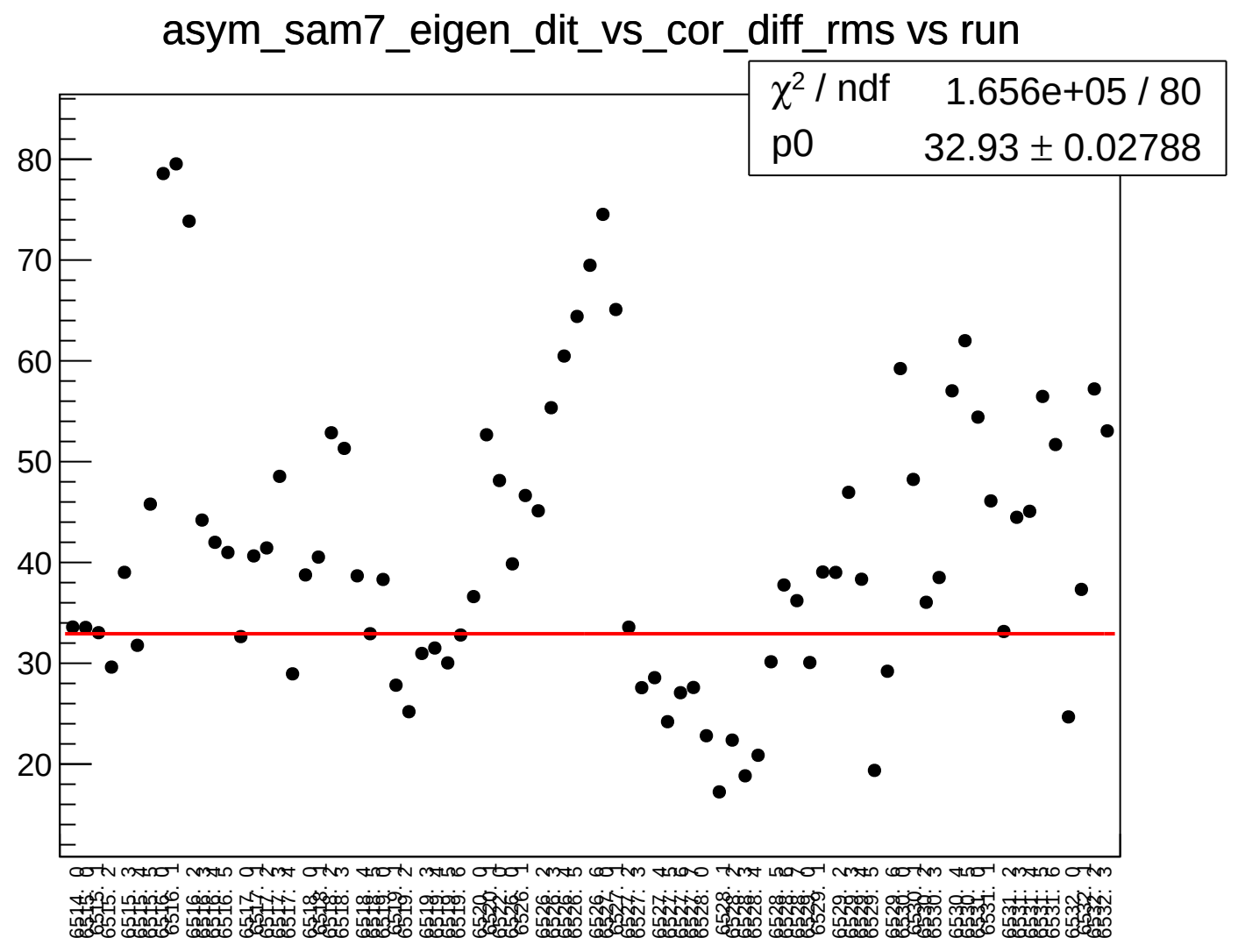

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.656e+05 / 80
p0 32.93 ± 0.02788
80
70
60
50
40
30
20

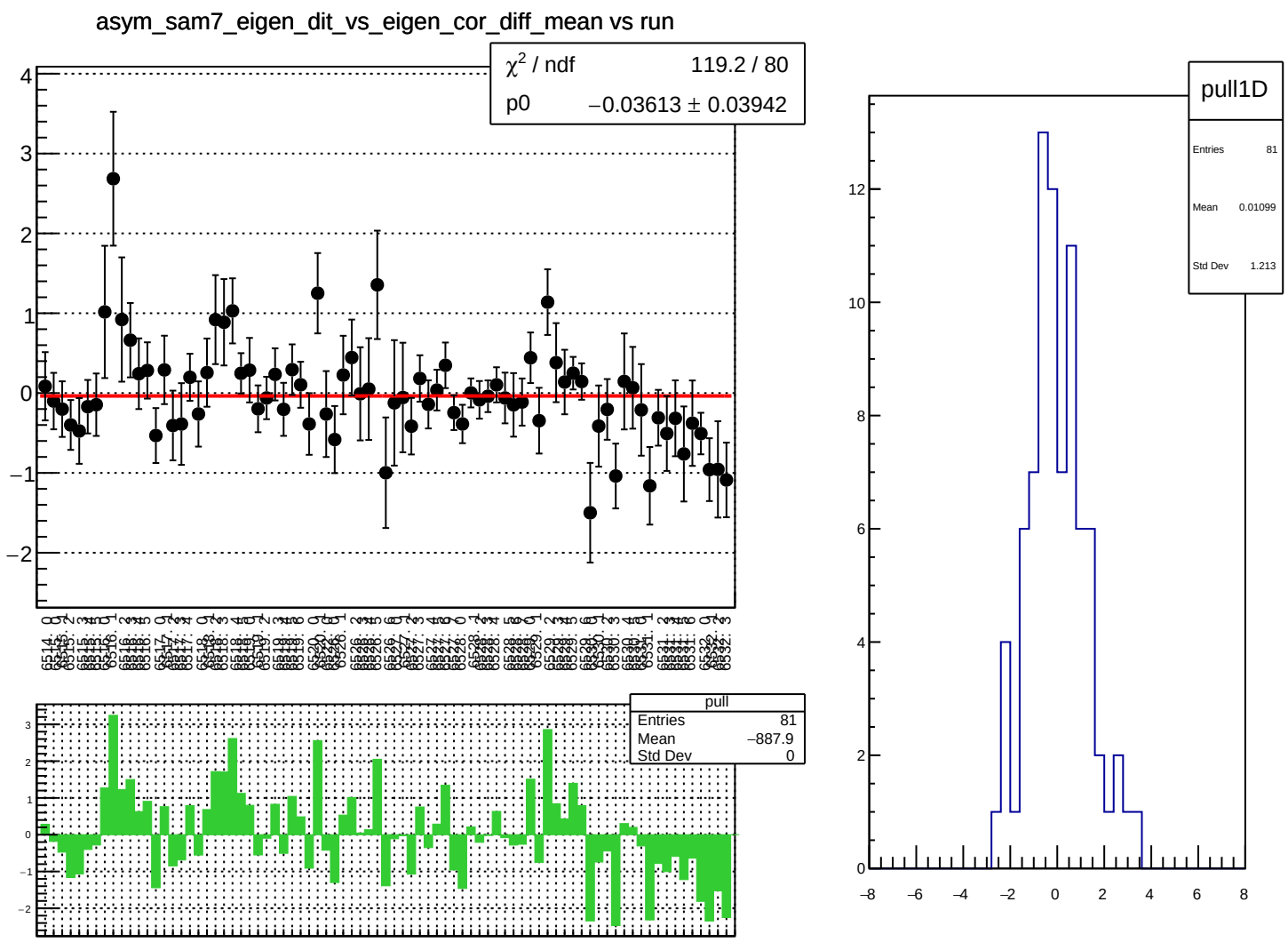

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.22 / 80
p0 −3.702e−06 ± 2.135e−06
pull
Entries 81
Mean −65.67
Std Dev 0

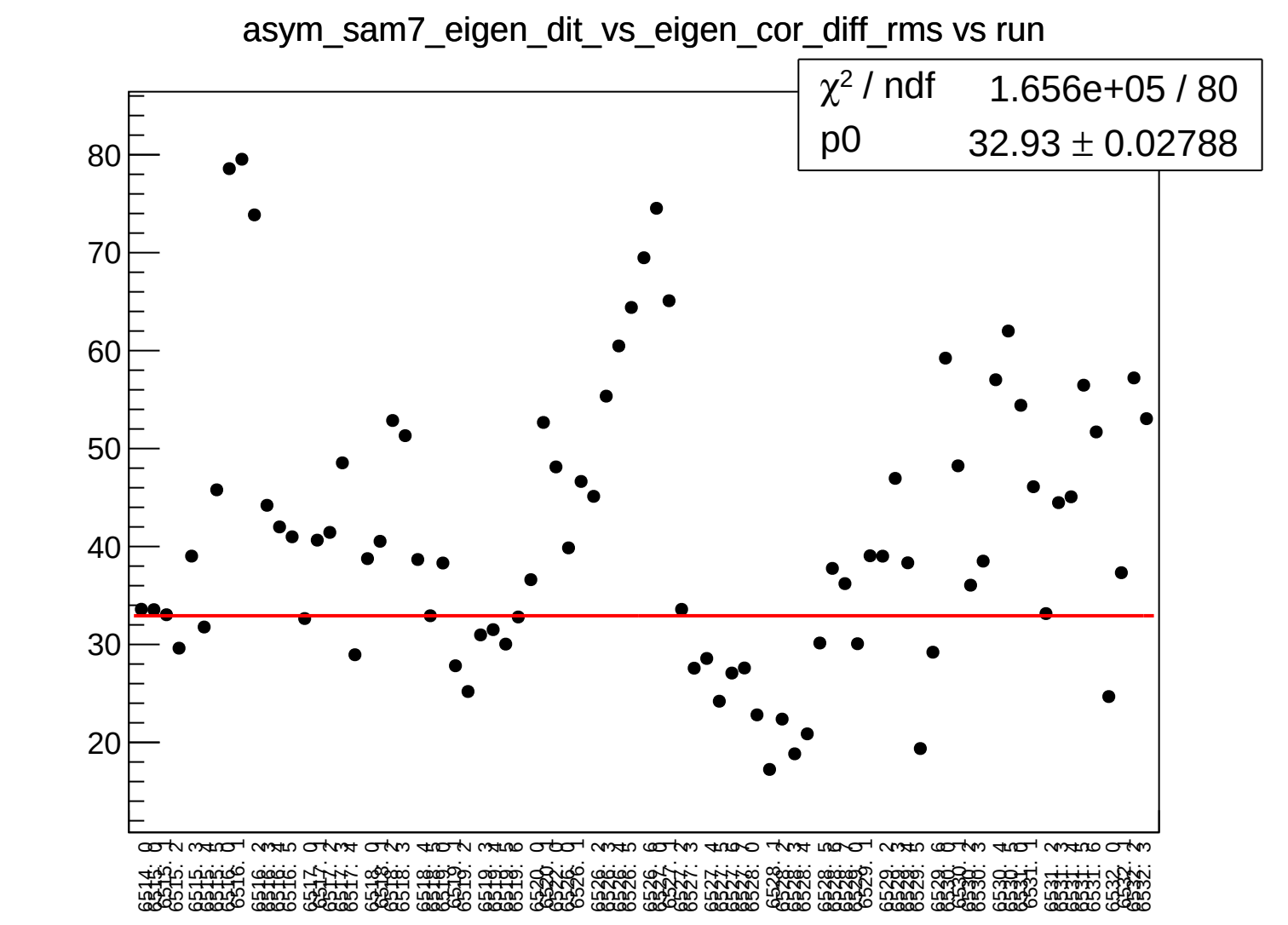

pull1D
Entries 81
Mean 0.02884
Std Dev 1.106

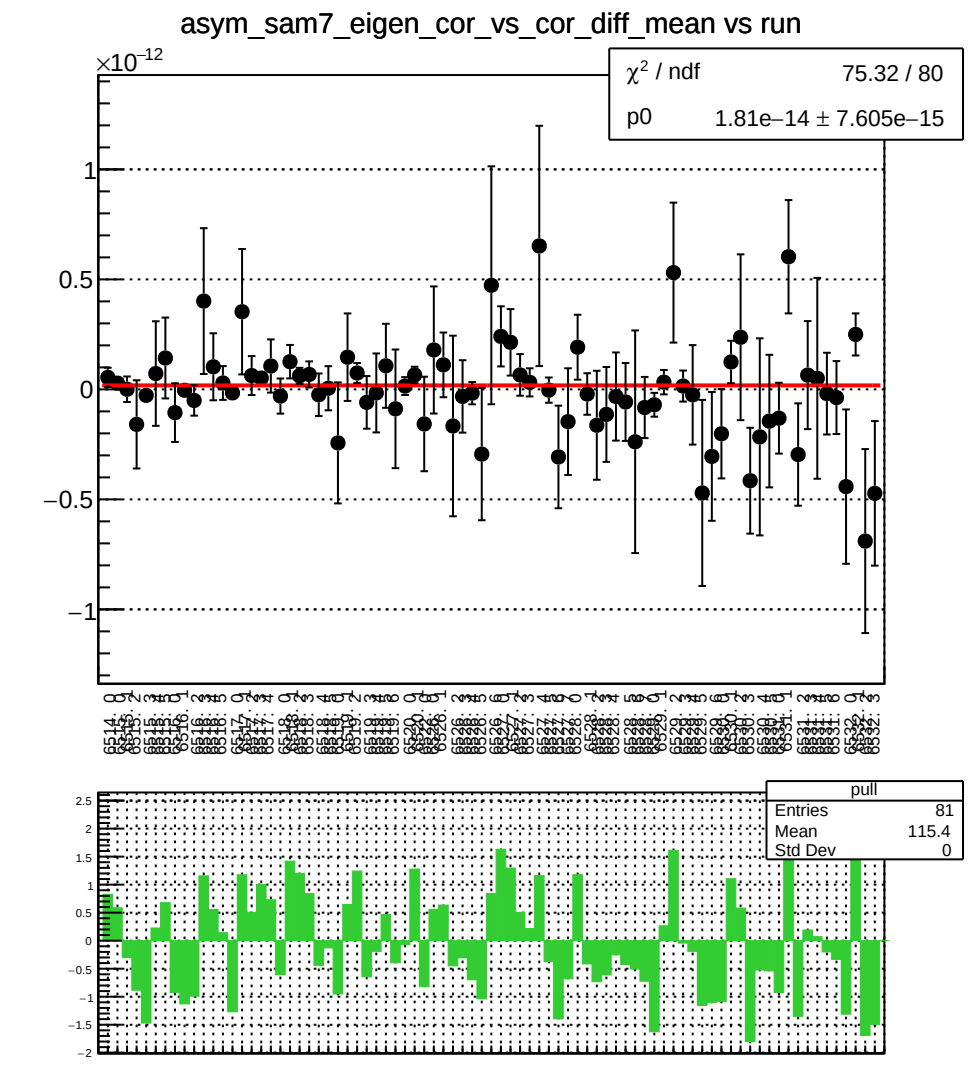

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.544e+04 / 80
p0 0.001871 ± 1.51e–06
0.0023
0.0022
0.0021
0.002
0.0019
0.0018
0.0017
0.0016
0.0015

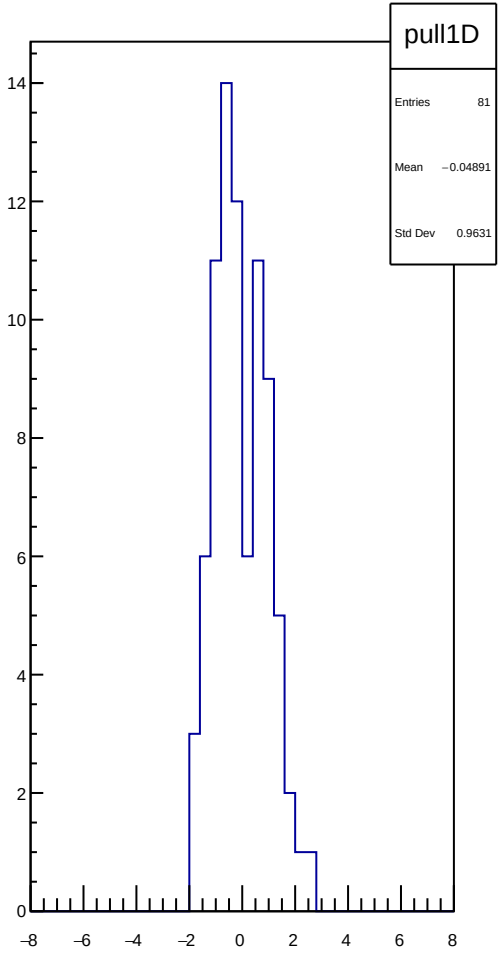

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 119.2 / 80
p0 −0.03613 ± 0.03942
pull
Entries 81
Mean −887.9
Std Dev 0
pull1D
Entries 81
Mean 0.01099
Std Dev 1.213

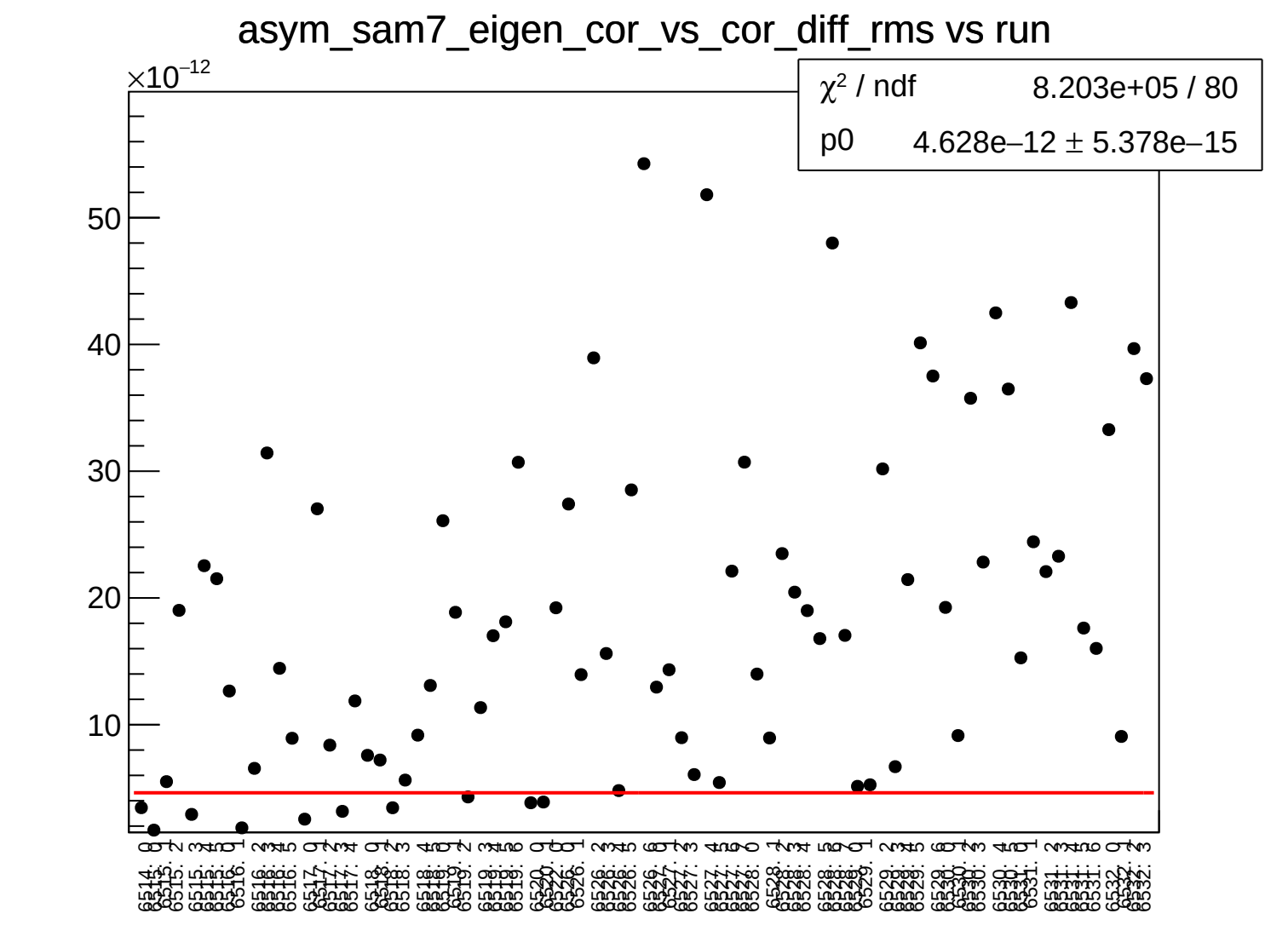

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.656e+05 / 80
p0 32.93 ± 0.02788
80
70
60
50
40
30
20

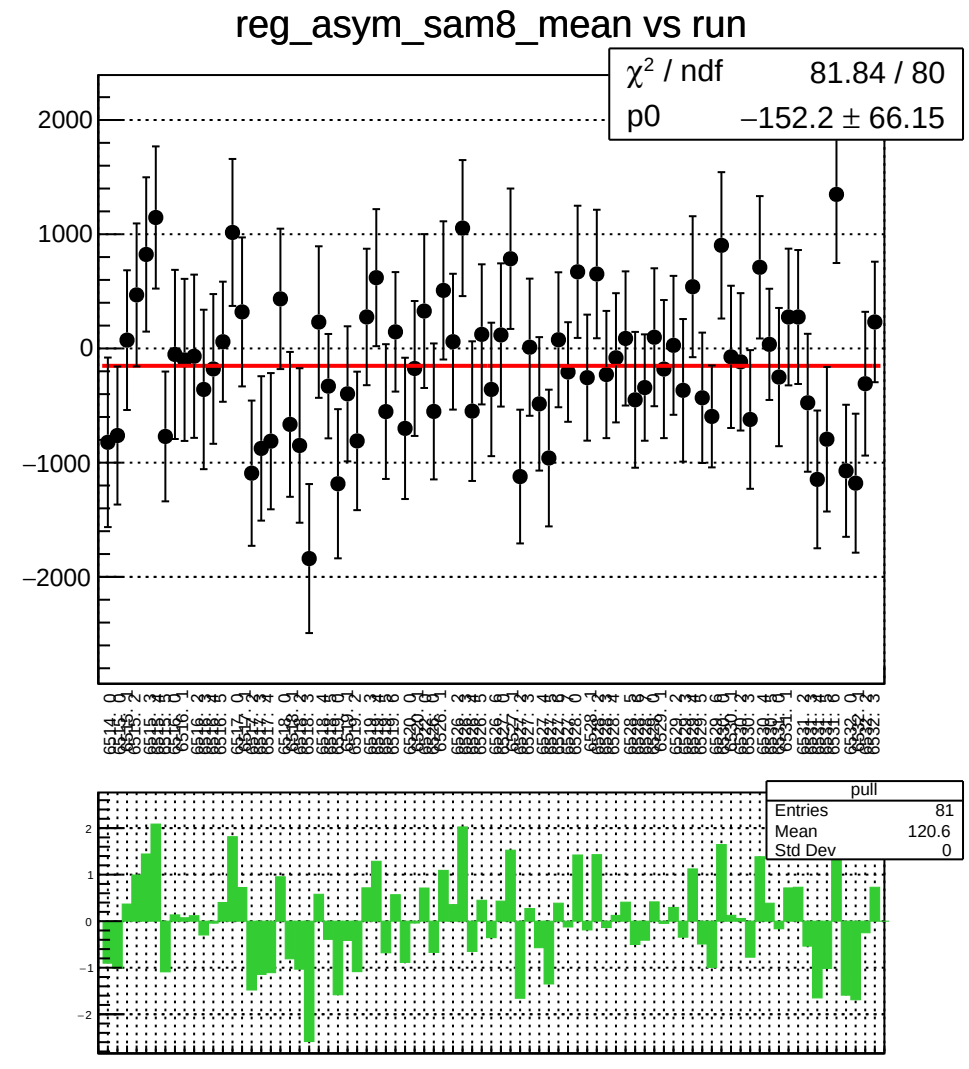

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 119.2 / 80
p0 −0.03613 ± 0.03942
pull
Entries 81
Mean −887.9
Std Dev 0
pull1D
Entries 81
Mean 0.01099
Std Dev 1.213

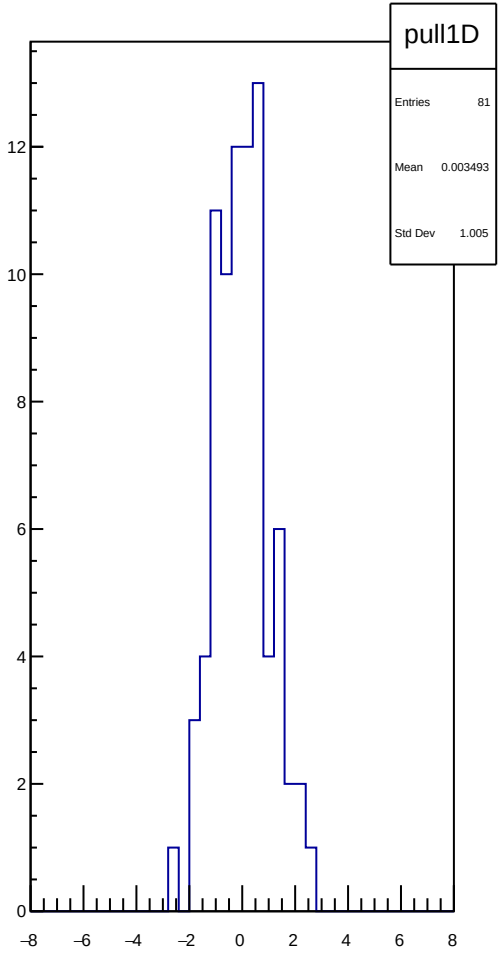

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.656e+05 / 80
p0 32.93 ± 0.02788
80
70
60
50
40
30
20

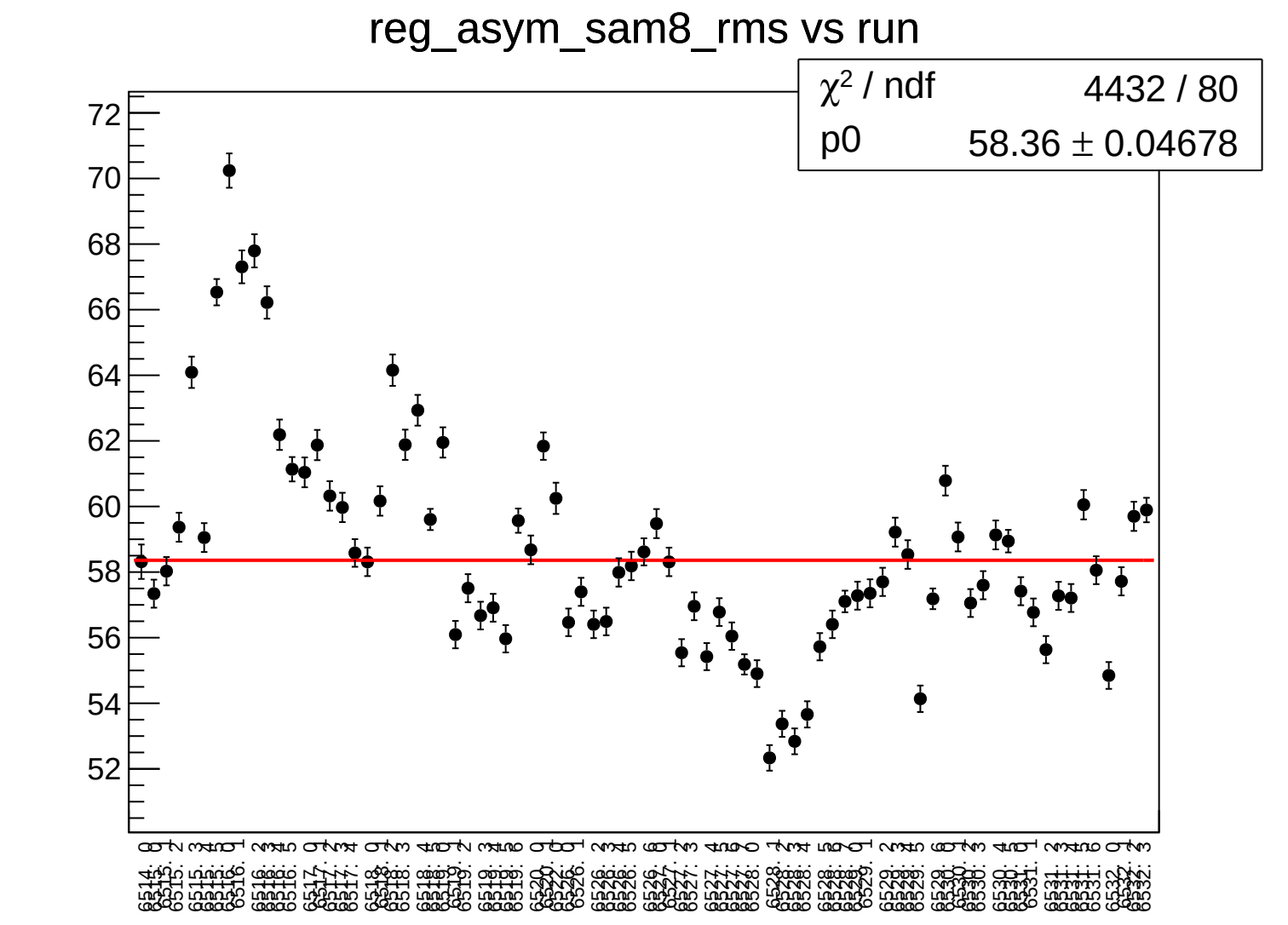

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.32 / 80
p0 1.81e−14 ± 7.605e−15
pull
Entries 81
Mean 115.4
Std Dev 0

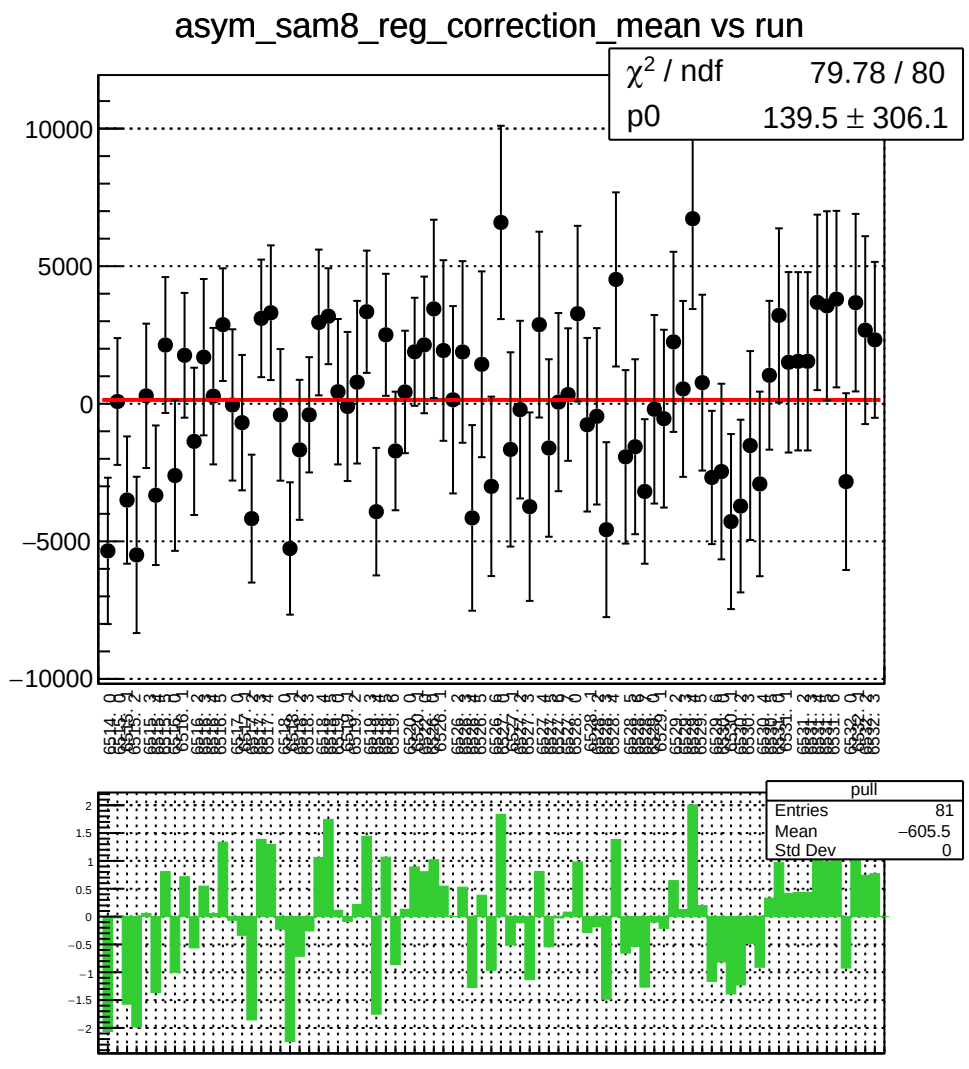

pull1D
Entries 81
Mean −0.04891
Std Dev 0.9631

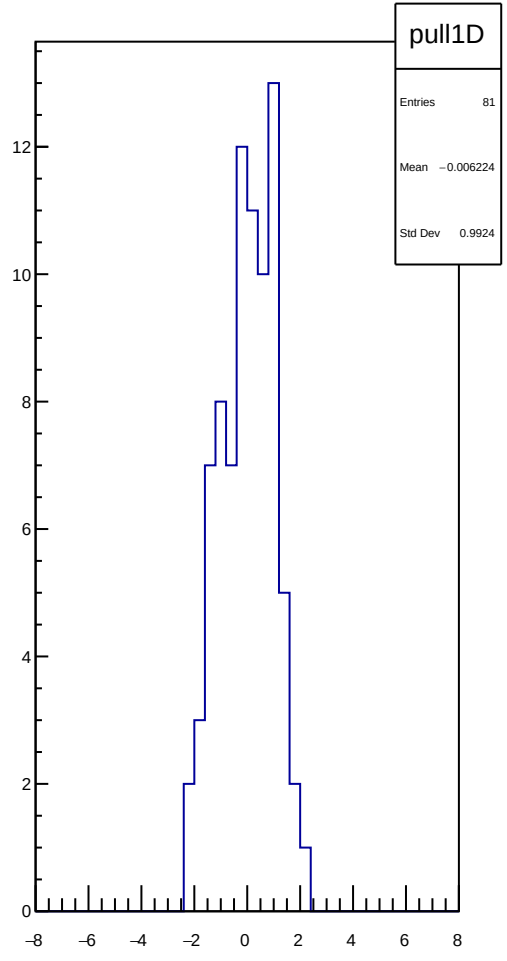

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 8.203e+05 / 80
p0 4.628e−12 ± 5.378e−15
50
40
30
20
10

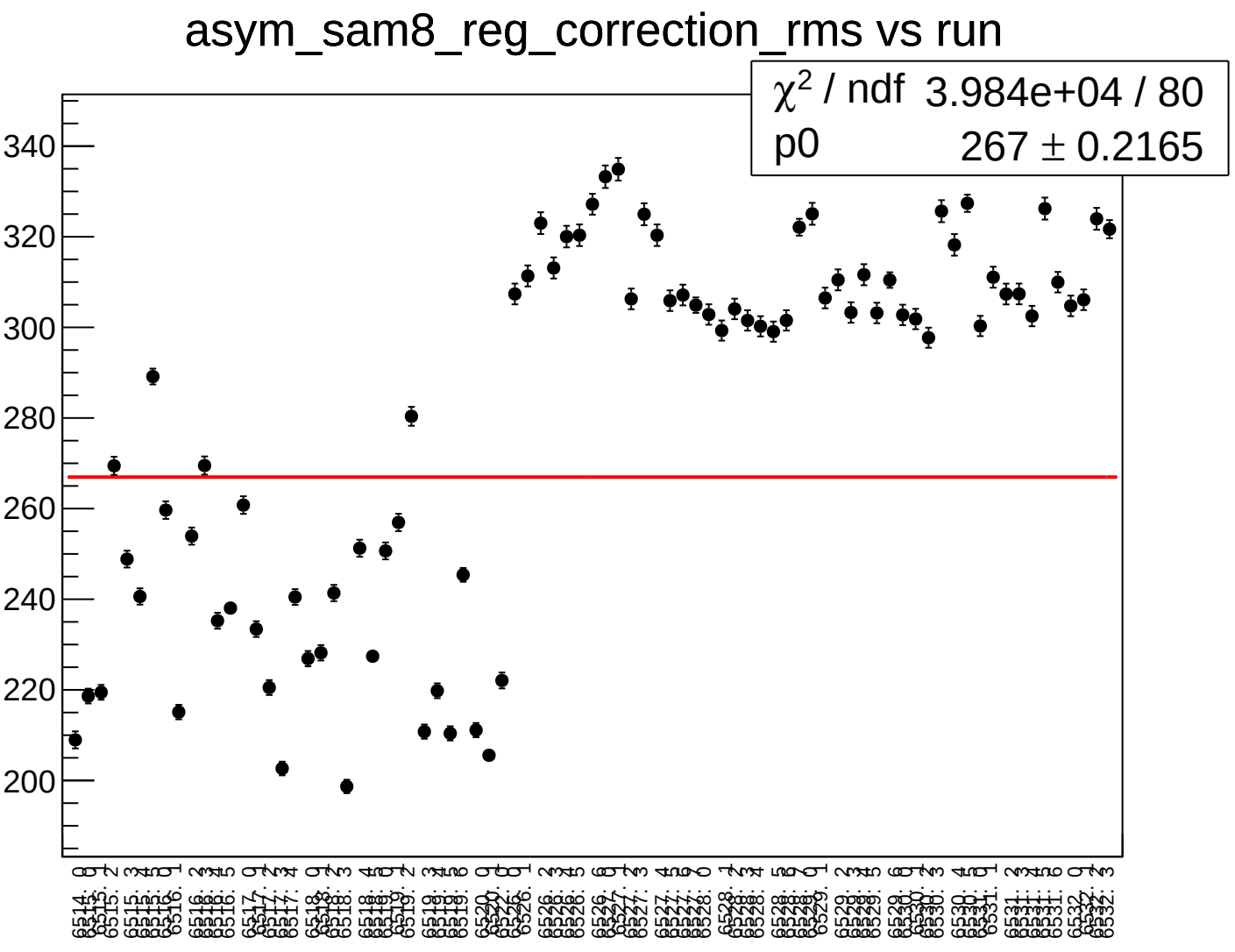

reg_asym_sam8_mean vs run
χ² / ndf 81.84 / 80
p0 −152.2 ± 66.15
2000
1000
0
−1000
−2000
pull
Entries 81
Mean 120.6
Std Dev 0
2
1
0
−1
−2

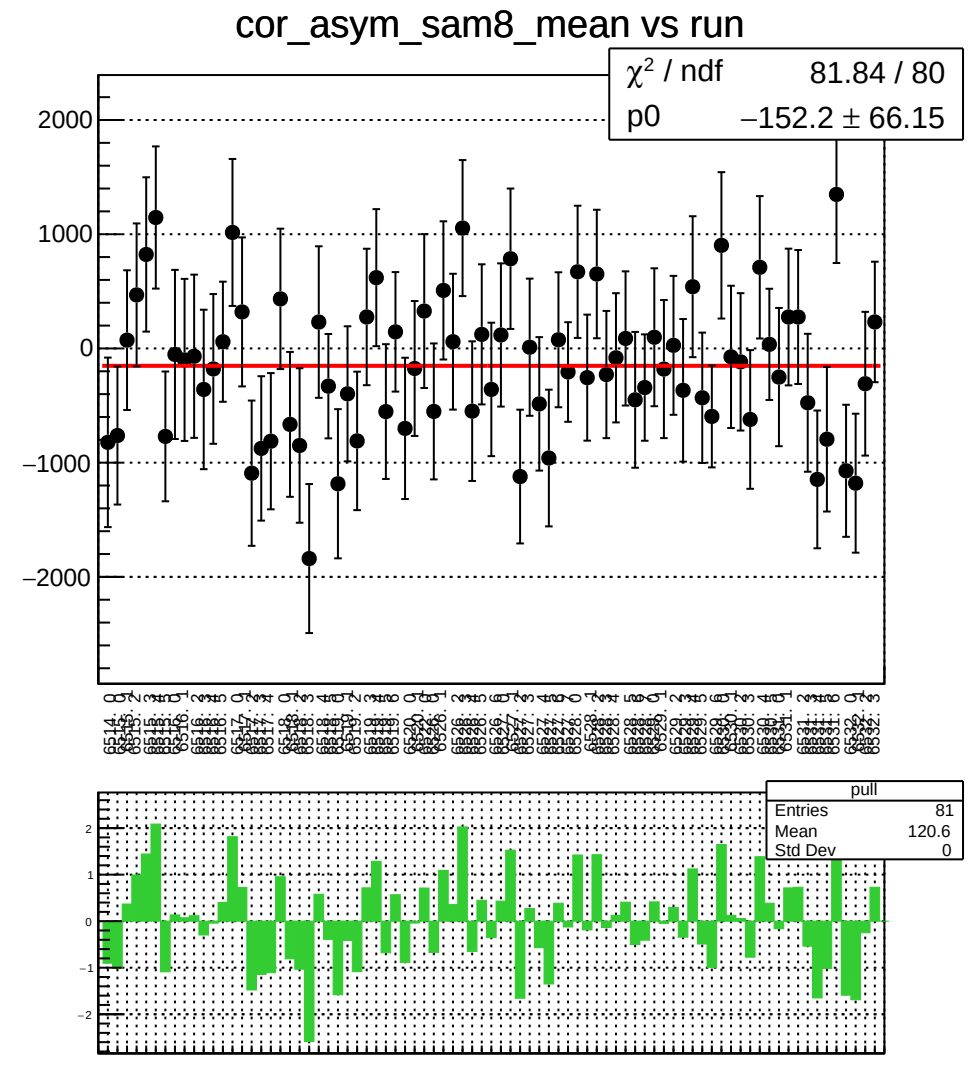

pull1D
Entries 81
Mean 0.003493
Std Dev 1.005
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

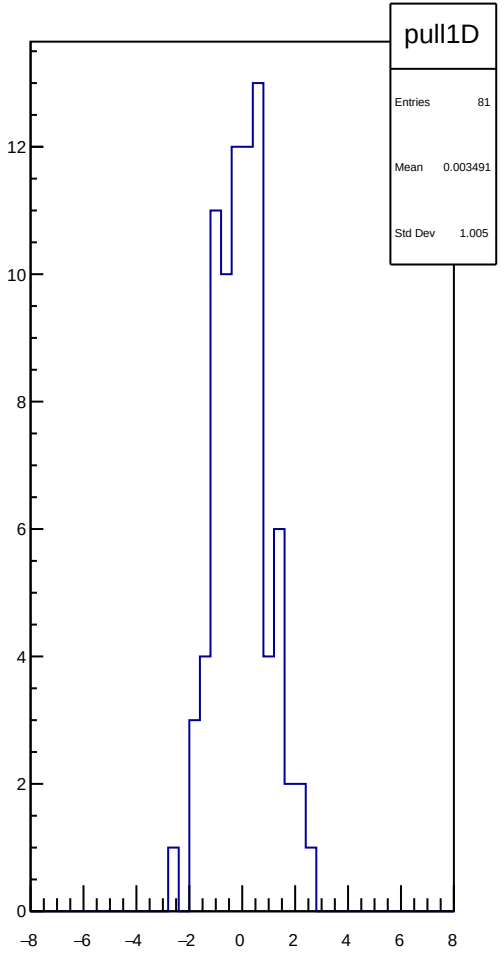

reg_asym_sam8_rms vs run
χ² / ndf 4432 / 80
p0 58.36 ± 0.04678
72
70
68
66
64
62
60
58
56
54
52

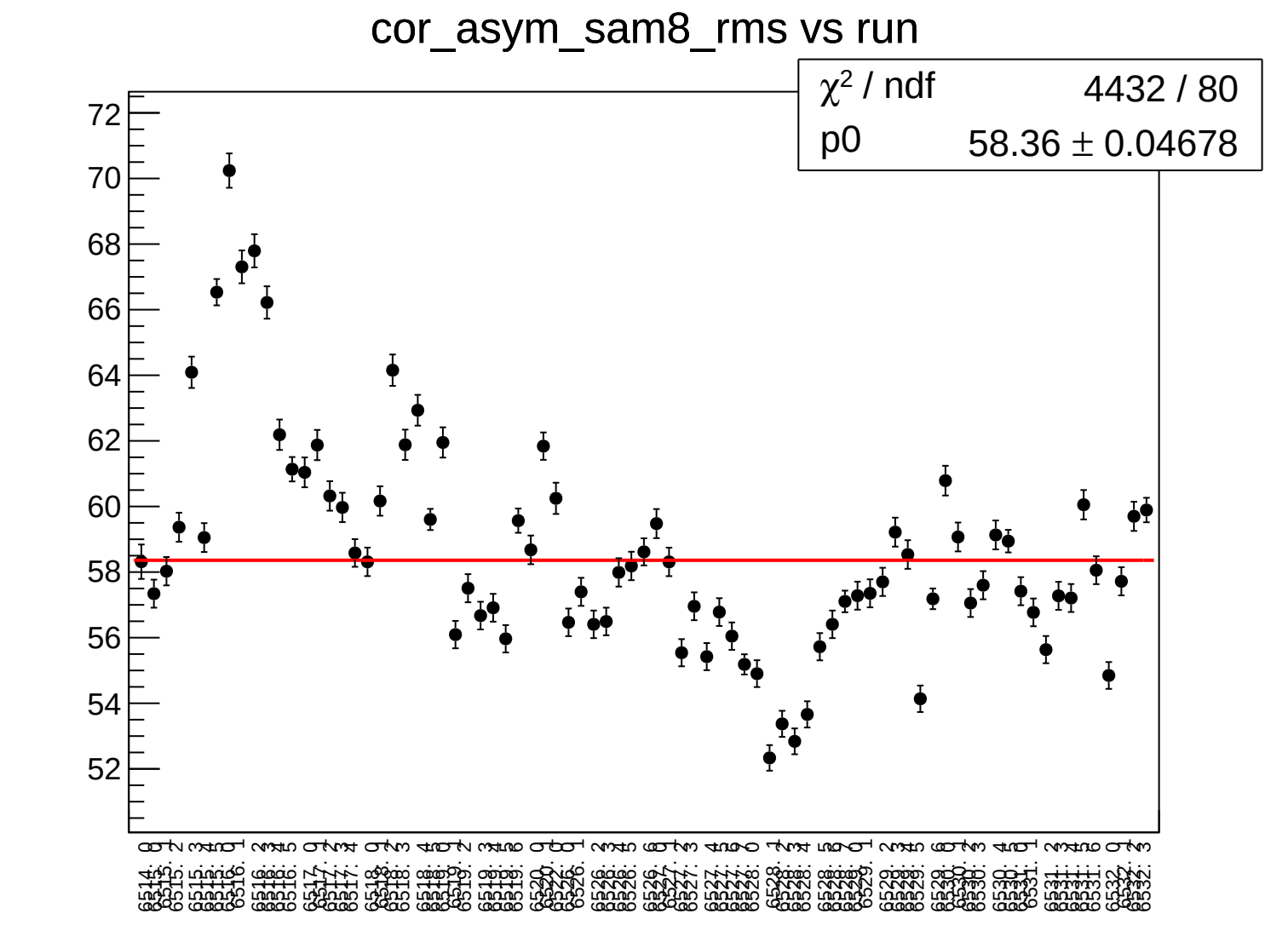

asym_sam8_reg_correction_mean vs run
χ² / ndf 79.78 / 80
p0 139.5 ± 306.1
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −605.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

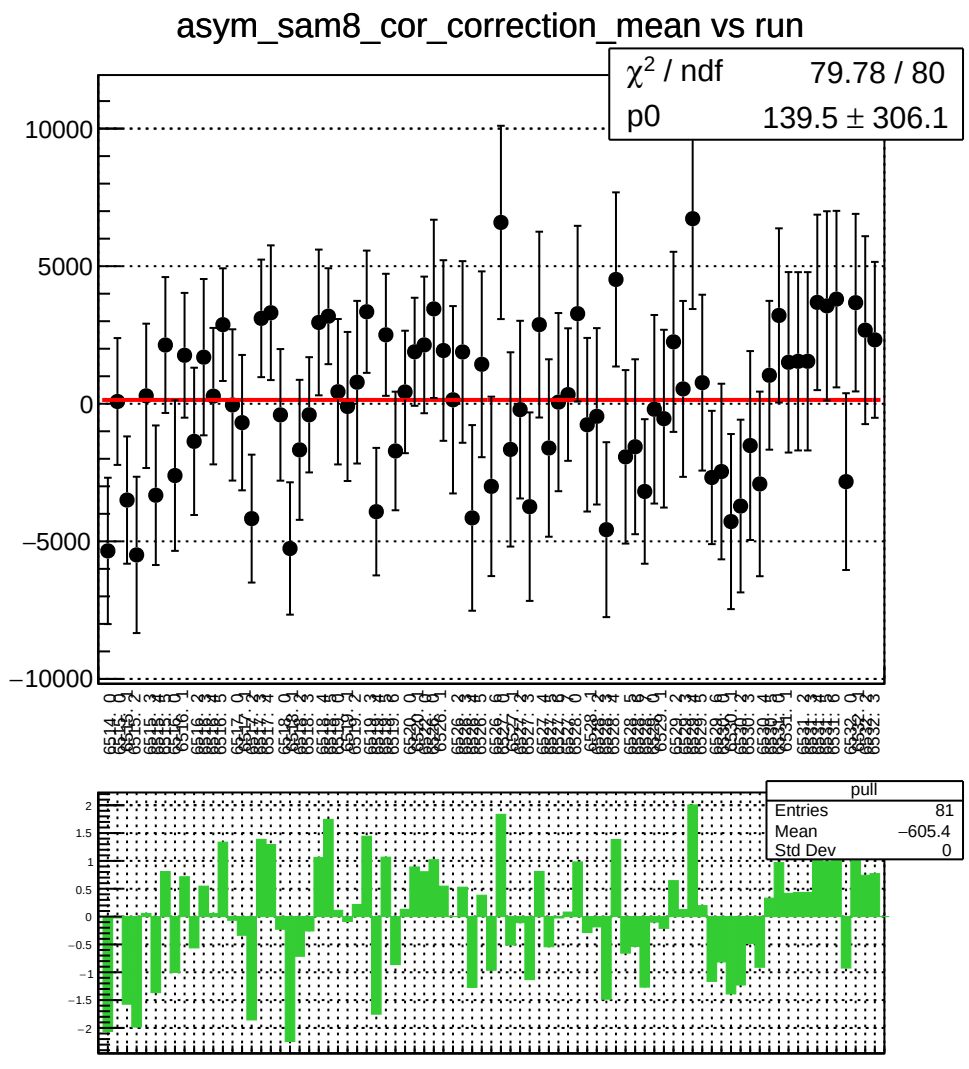

pull1D
Entries 81
Mean −0.006224
Std Dev 0.9924
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

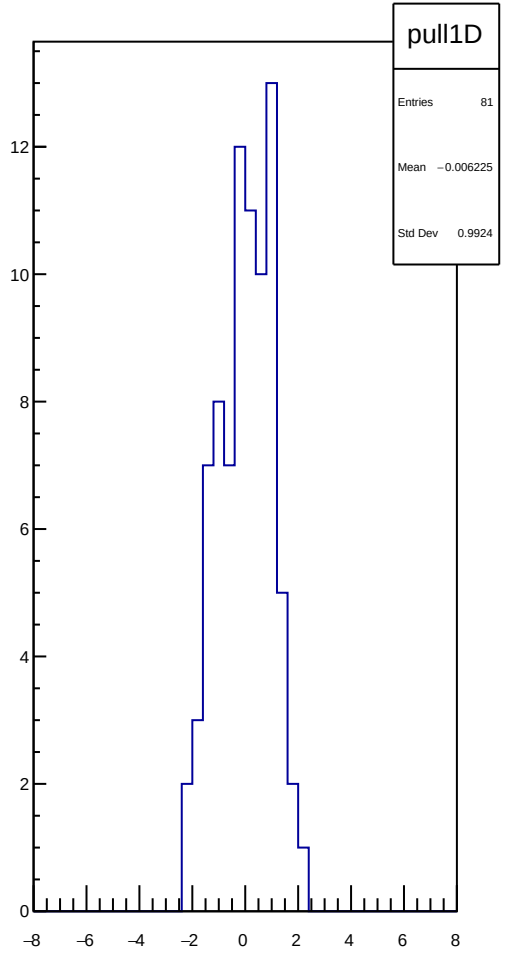

asym_sam8_reg_correction_rms vs run
χ² / ndf 3.984e+04 / 80
p0 267 ± 0.2165
340
320
300
280
260
240
220
200

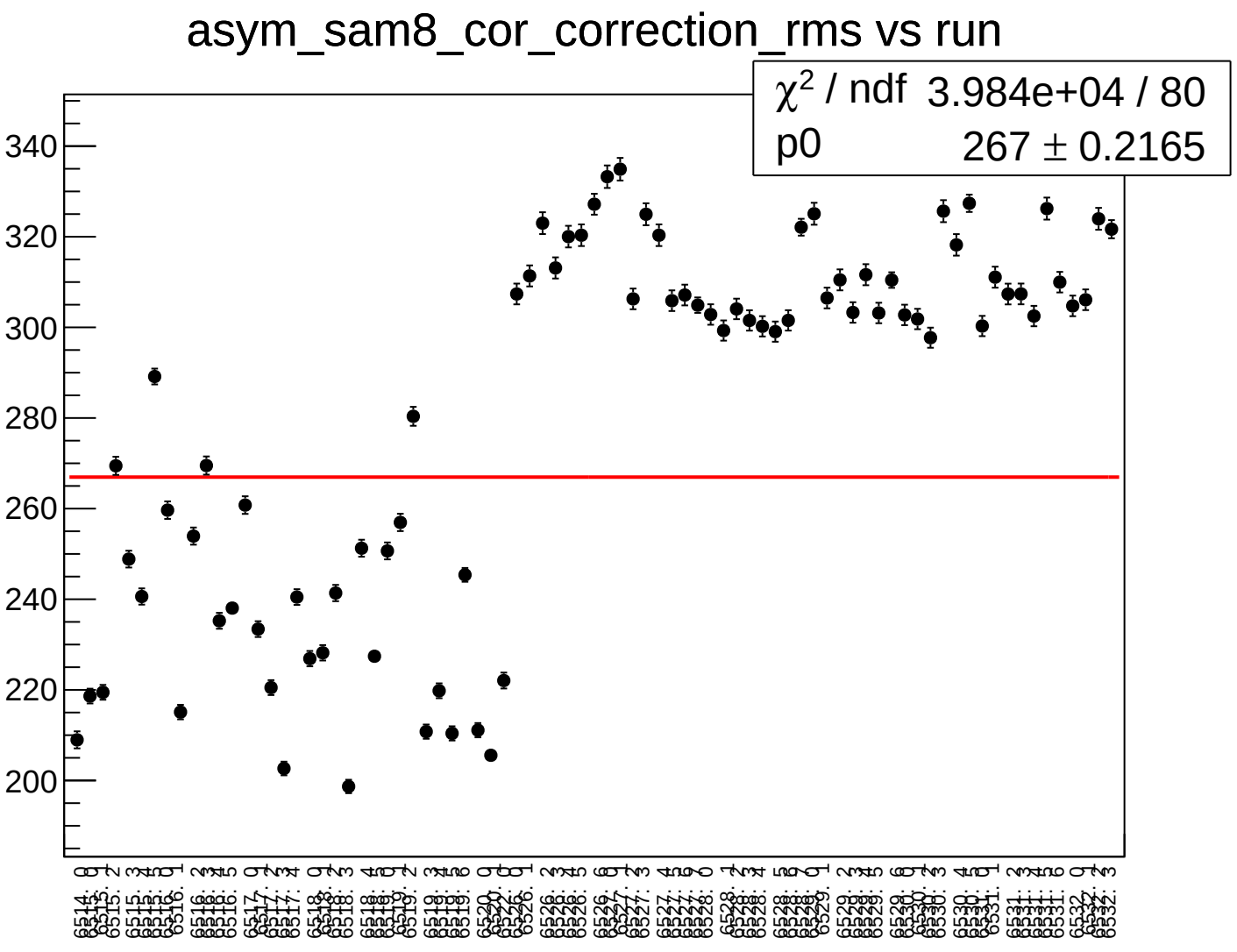

cor_asym_sam8_mean vs run
χ² / ndf 81.84 / 80
p0 −152.2 ± 66.15
2000
1000
0
−1000
−2000
pull
Entries 81
Mean 120.6
Std Dev 0
2
1
0
−1
−2

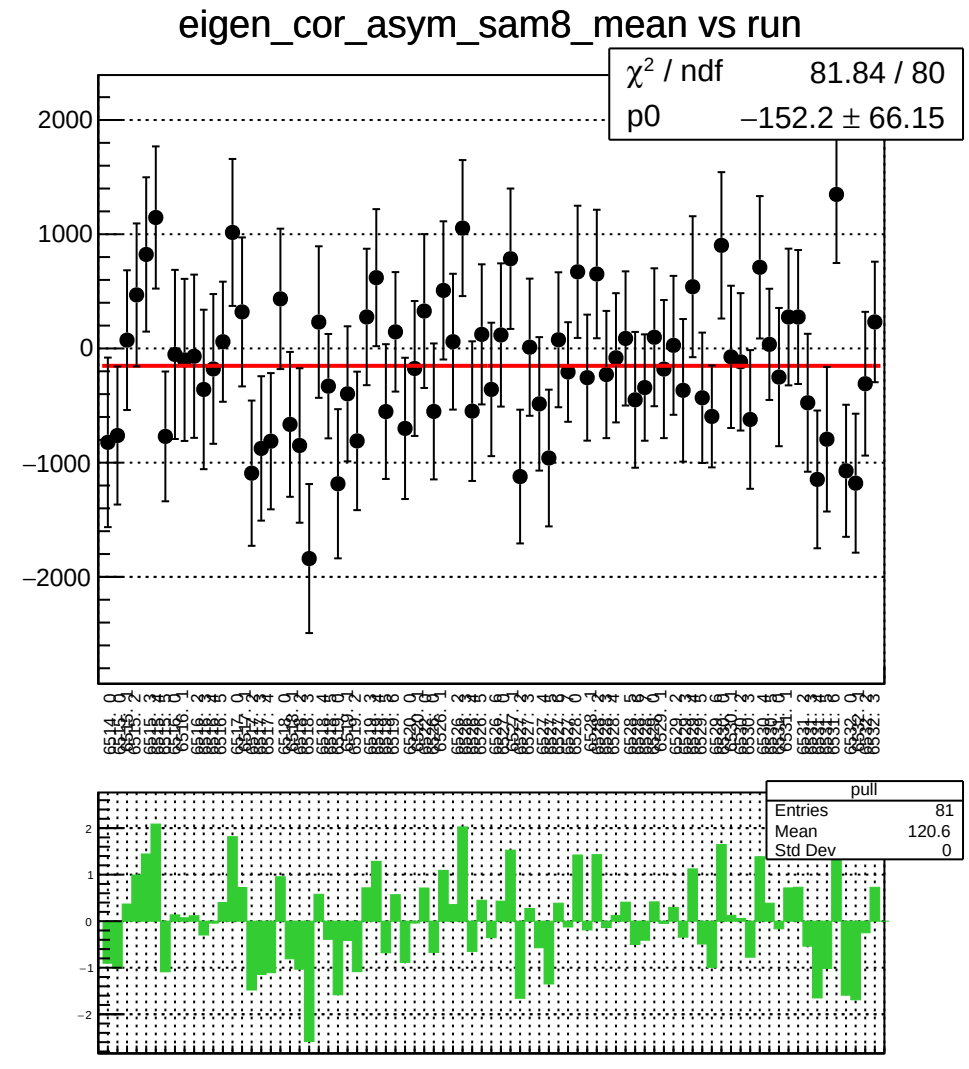

pull1D
Entries 81
Mean 0.003491
Std Dev 1.005
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

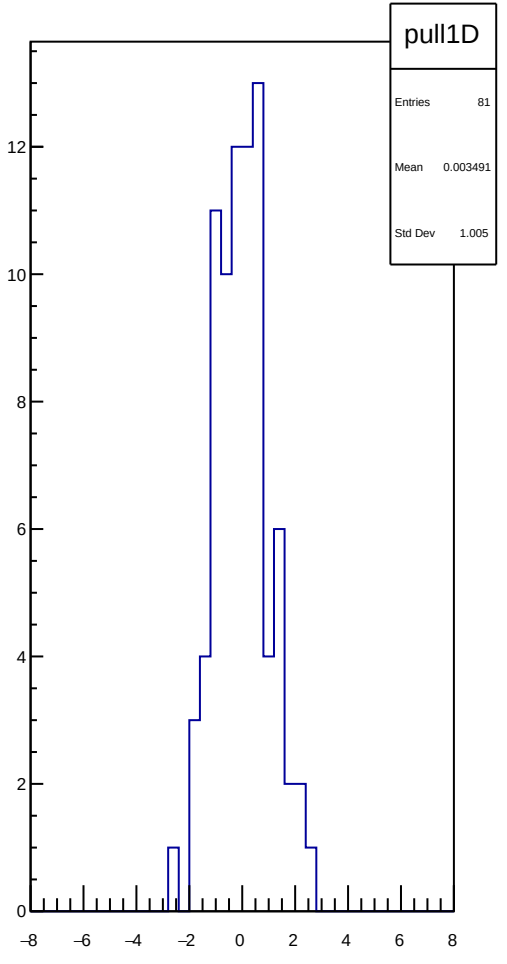

cor_asym_sam8_rms vs run
χ^2 / ndf 4432 / 80
p0 58.36 ± 0.04678
72
70
68
66
64
62
60
58
56
54
52

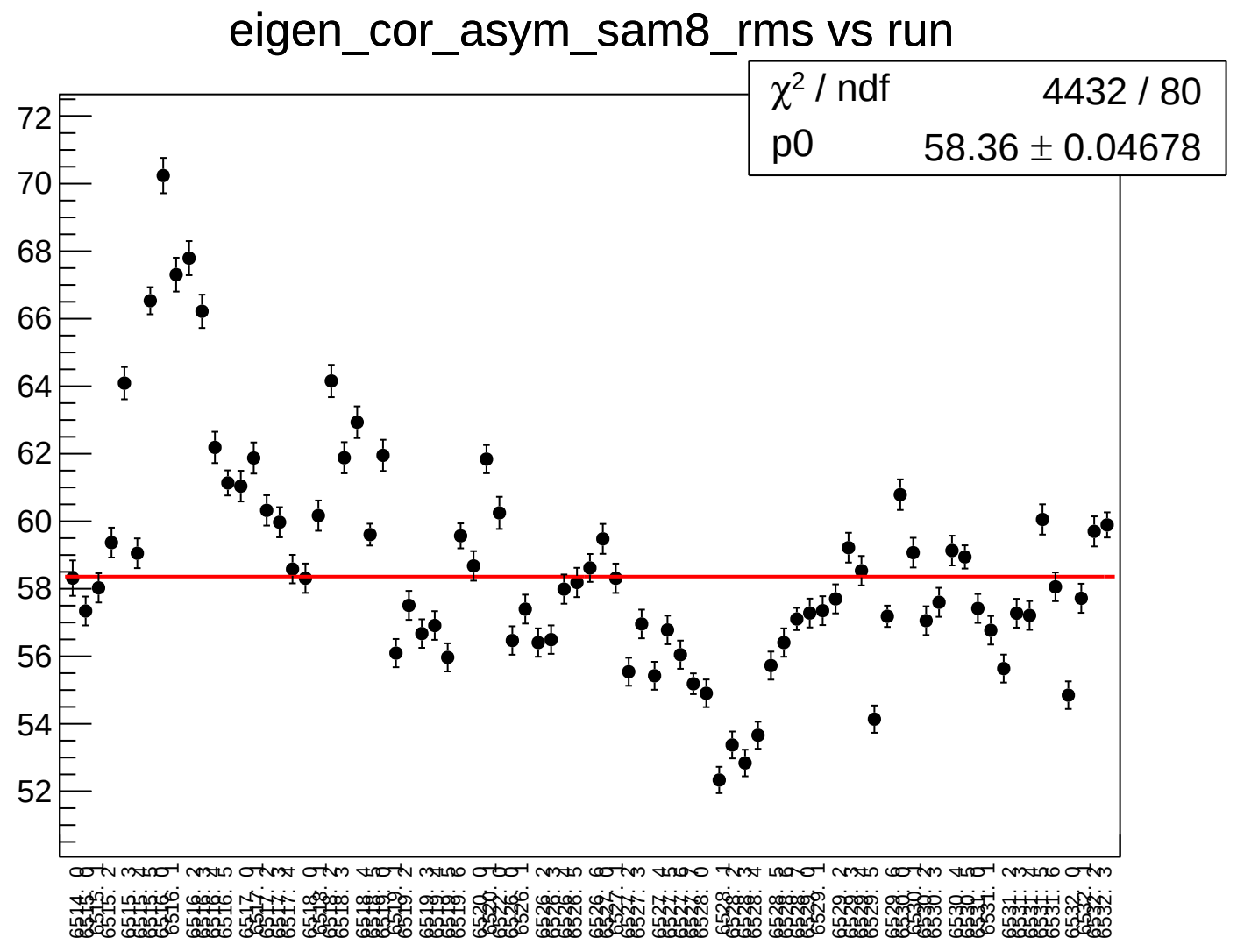

asym_sam8_cor_correction_mean vs run
χ² / ndf 79.78 / 80
p0 139.5 ± 306.1
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −605.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

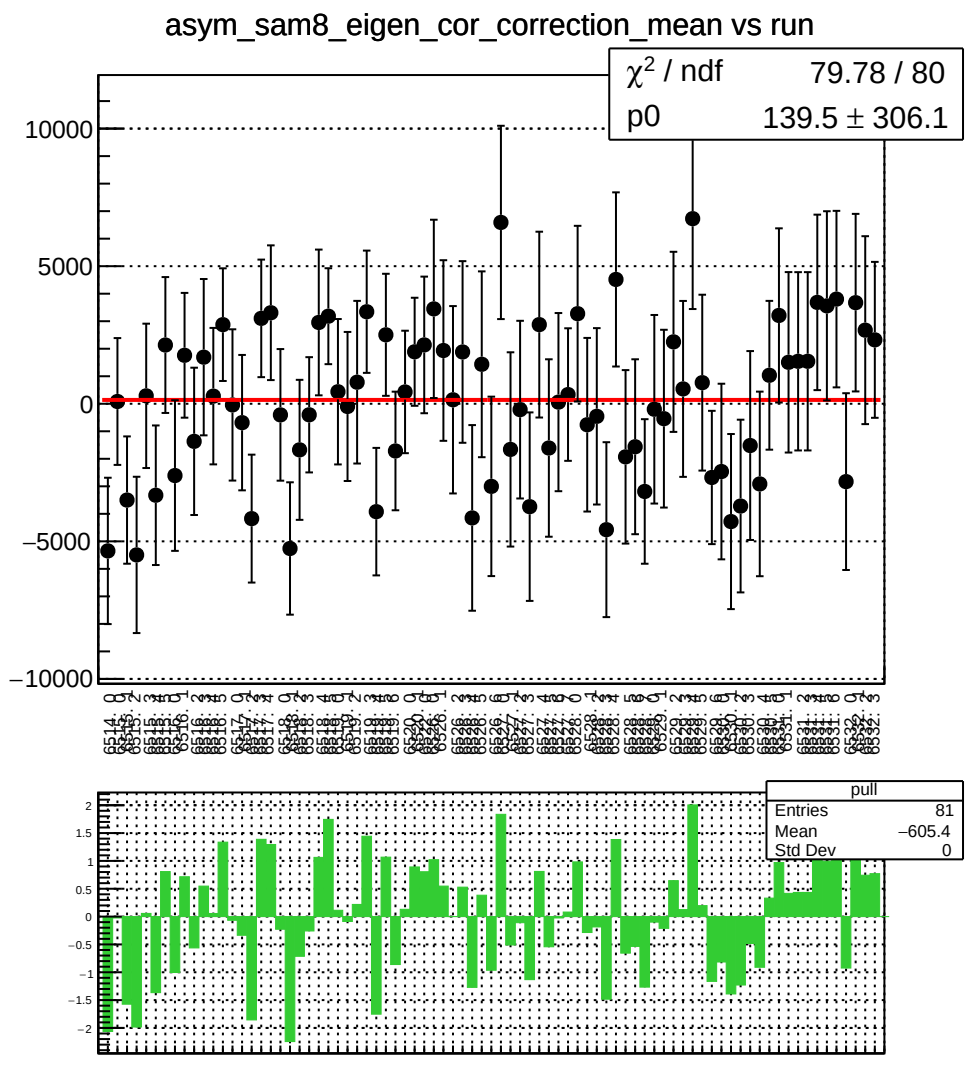

pull1D
Entries 81
Mean −0.006225
Std Dev 0.9924
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

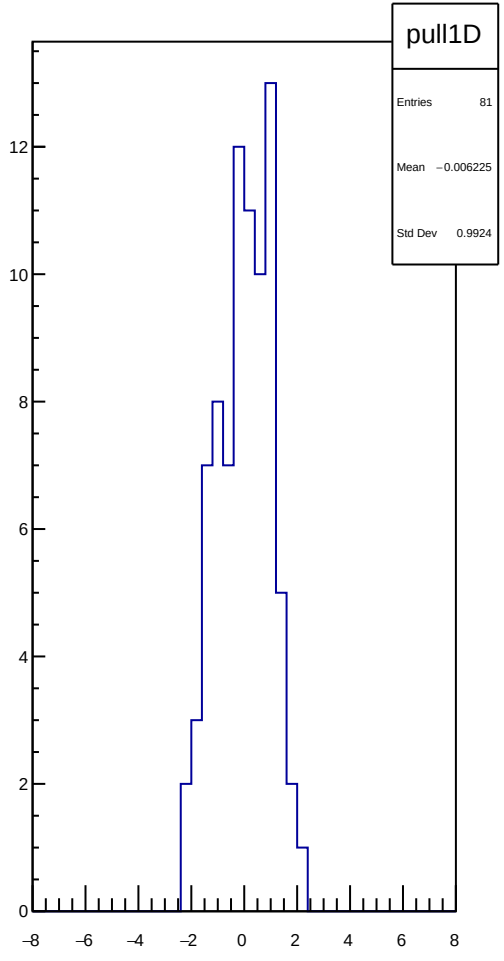

asym_sam8_cor_correction_rms vs run
χ² / ndf 3.984e+04 / 80
p0 267 ± 0.2165
340
320
300
280
260
240
220
200

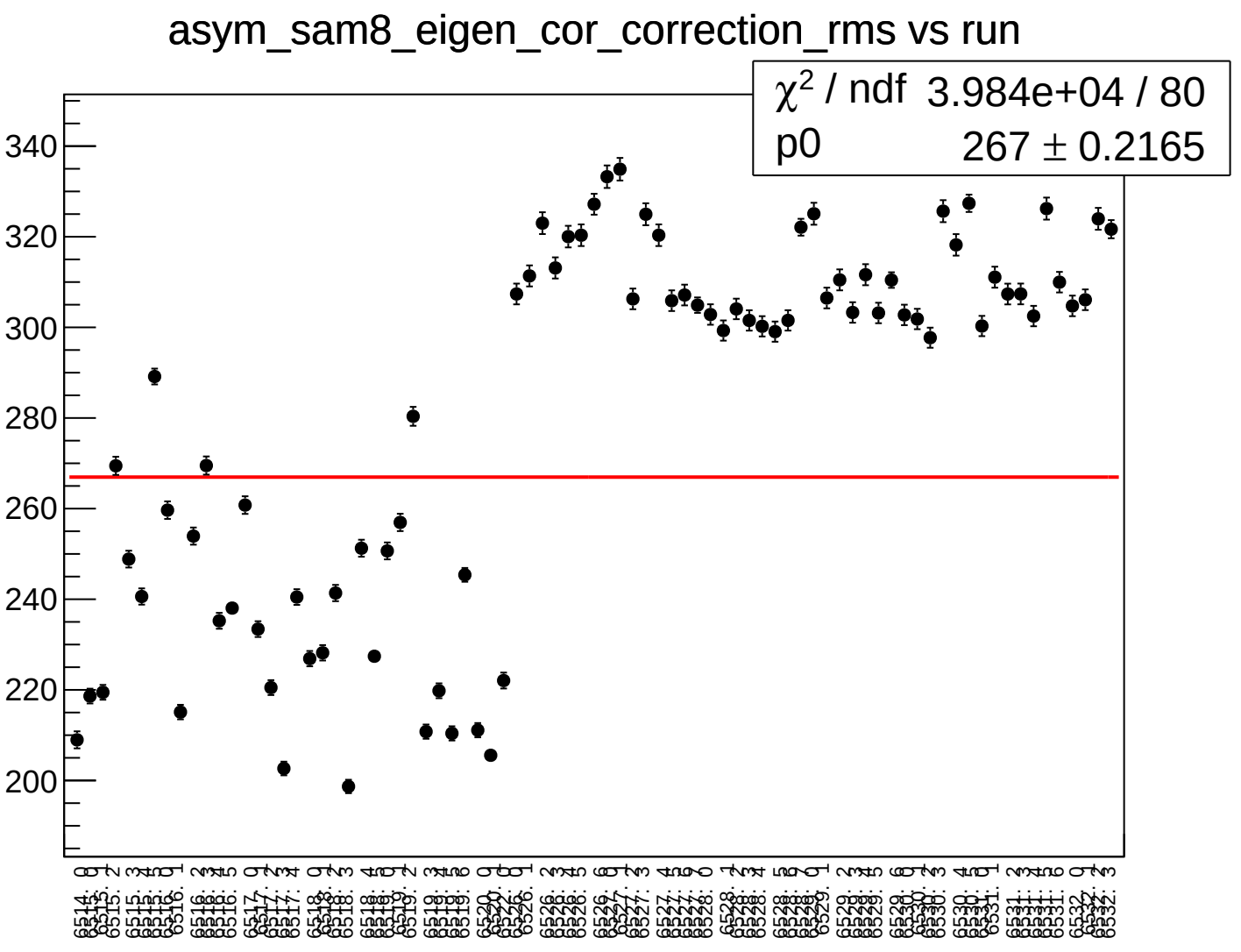

eigen_cor_asym_sam8_mean vs run
χ² / ndf 81.84 / 80
p0 −152.2 ± 66.15
2000
1000
0
−1000
−2000
pull
Entries 81
Mean 120.6
Std Dev 0
2
1
0
−1
−2

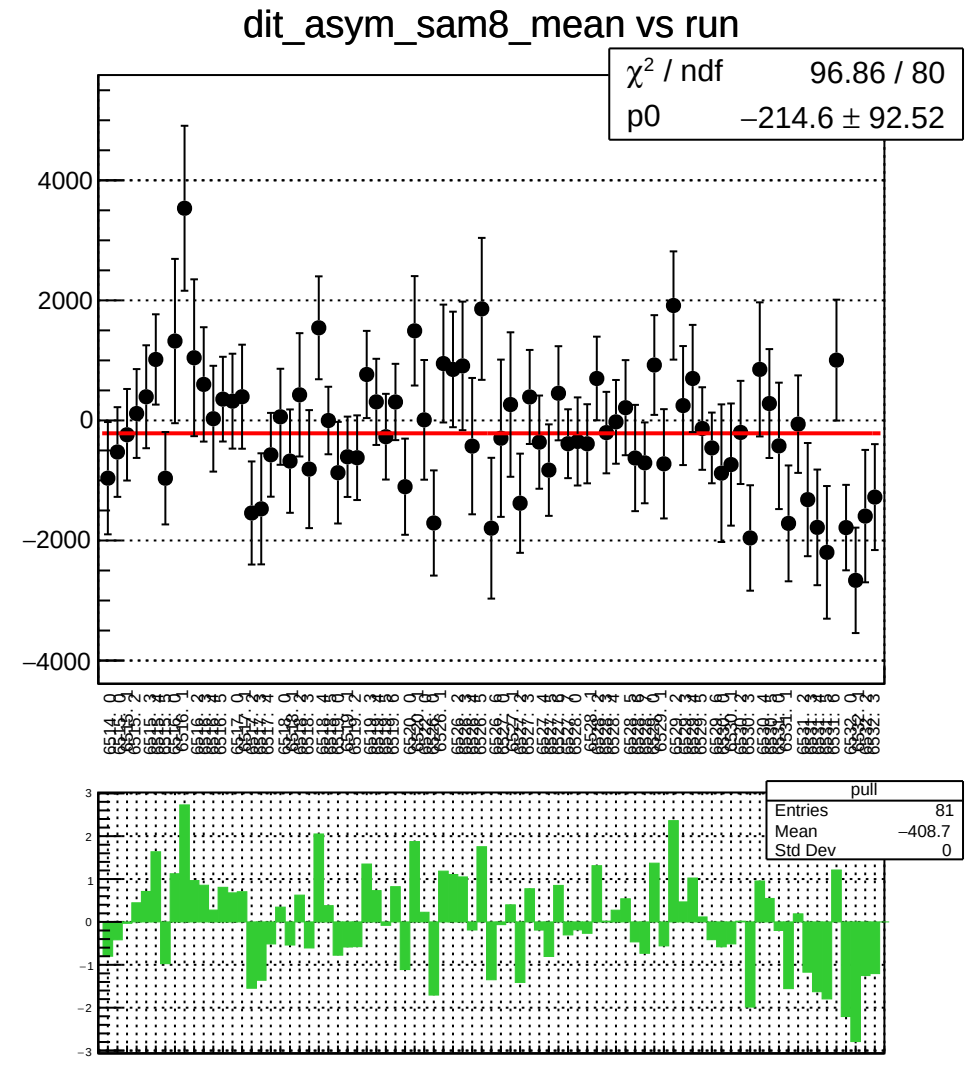

pull1D
Entries 81
Mean 0.003491
Std Dev 1.005
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

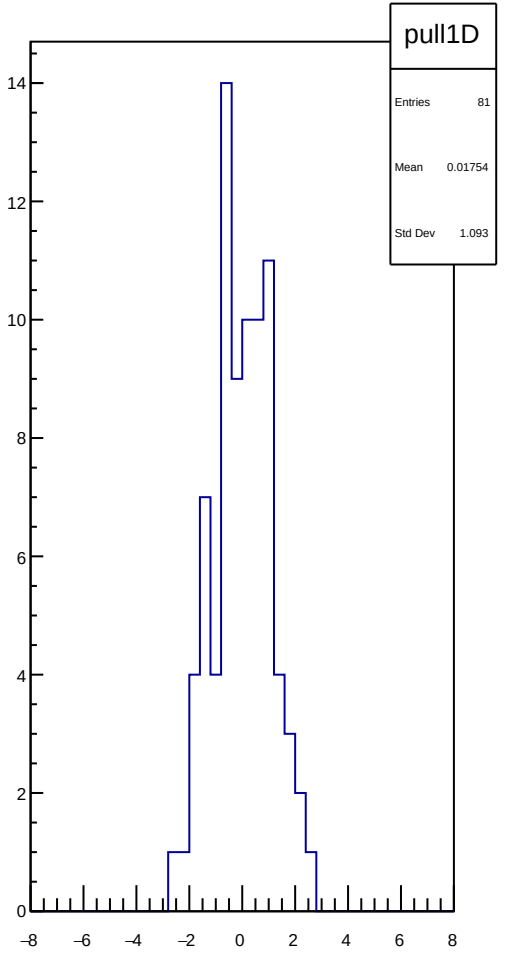

eigen_cor_asym_sam8_rms vs run
χ^2 / ndf 4432 / 80
p0 58.36 ± 0.04678
72
70
68
66
64
62
60
58
56
54
52

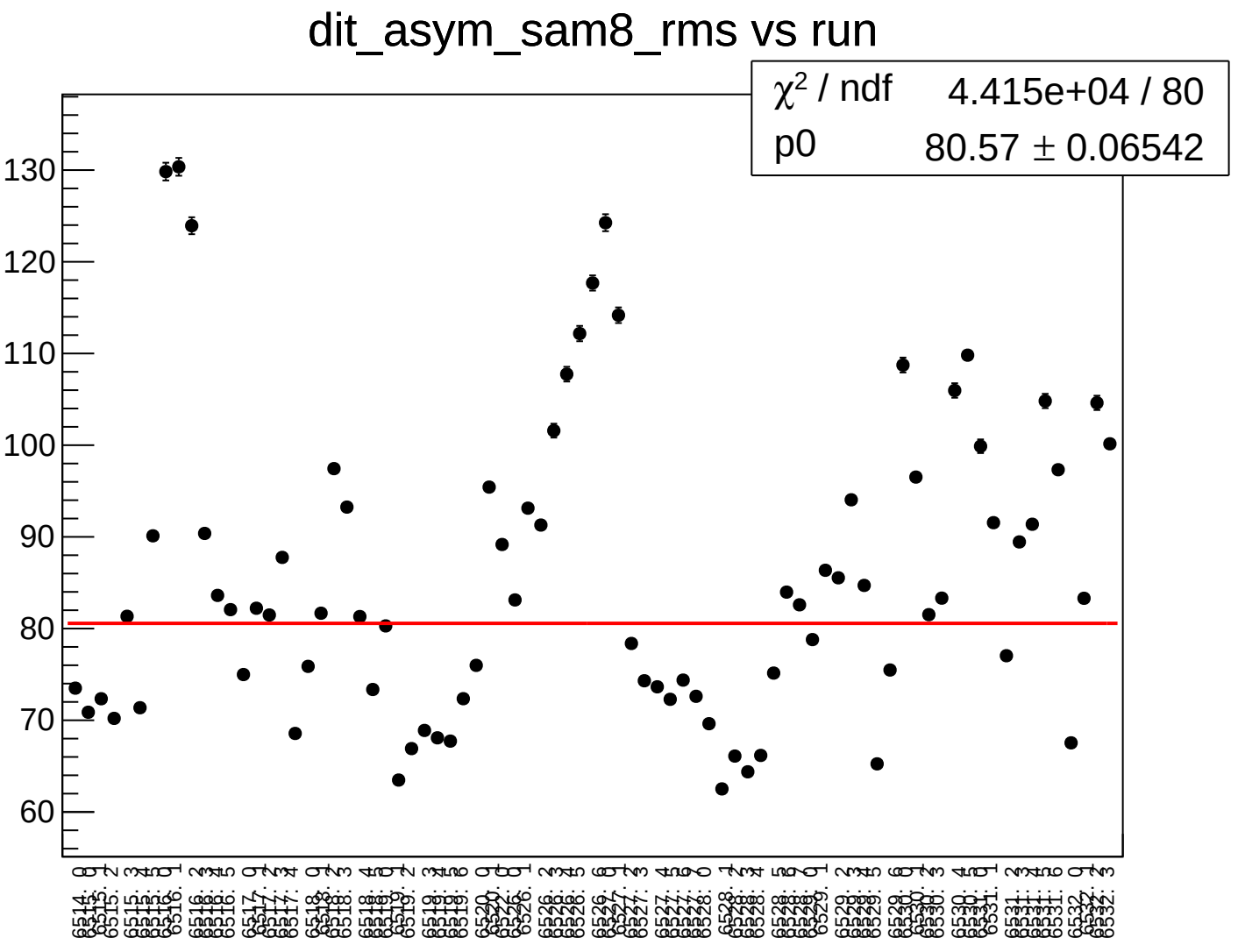

asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 79.78 / 80
p0 139.5 ± 306.1
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −605.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

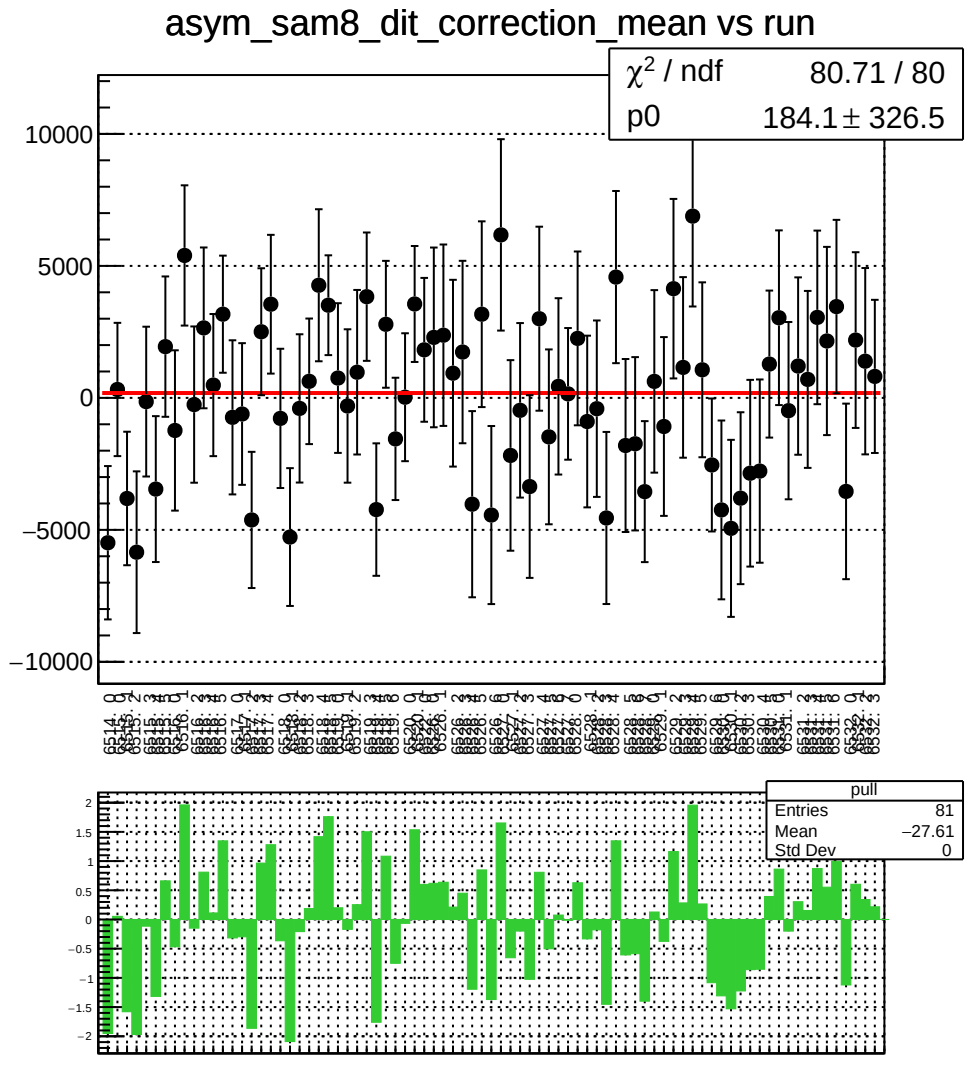

pull1D
Entries 81
Mean −0.006225
Std Dev 0.9924
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

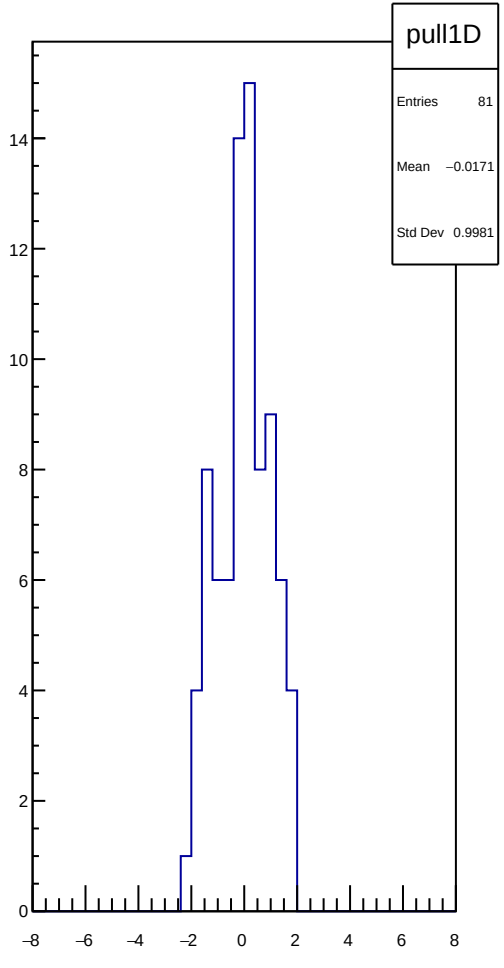

asym_sam8_eigen_cor_correction_rms vs run
χ² / ndf 3.984e+04 / 80
p0 267 ± 0.2165
340
320
300
280
260
240
220
200

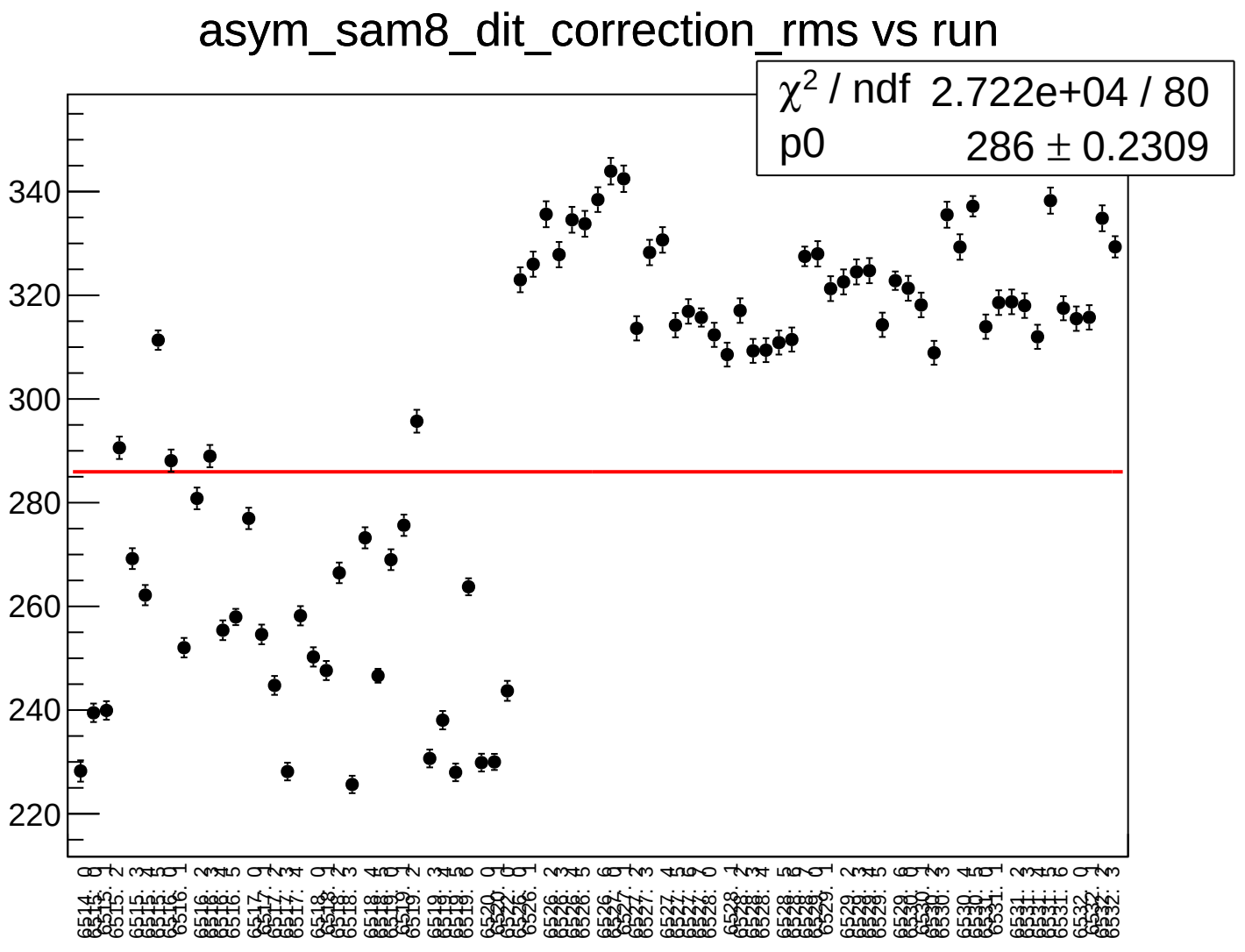

dit_asym_sam8_mean vs run
χ² / ndf 96.86 / 80
p0 −214.6 ± 92.52
4000
2000
0
−2000
−4000
pull
Entries 81
Mean −408.7
Std Dev 0
3
2
1
0
−1
−2
−3

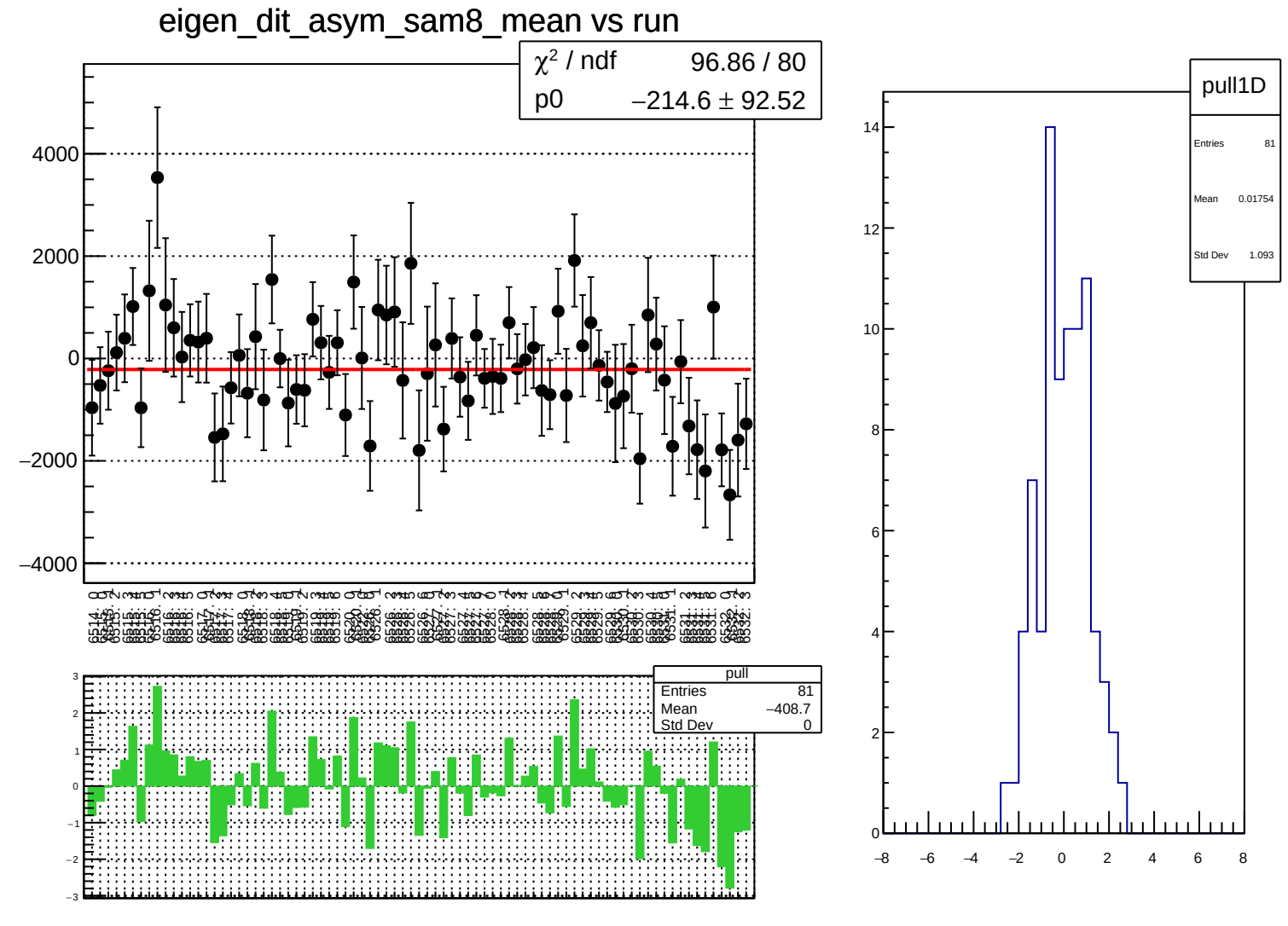

pull1D
Entries 81
Mean 0.01754
Std Dev 1.093
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

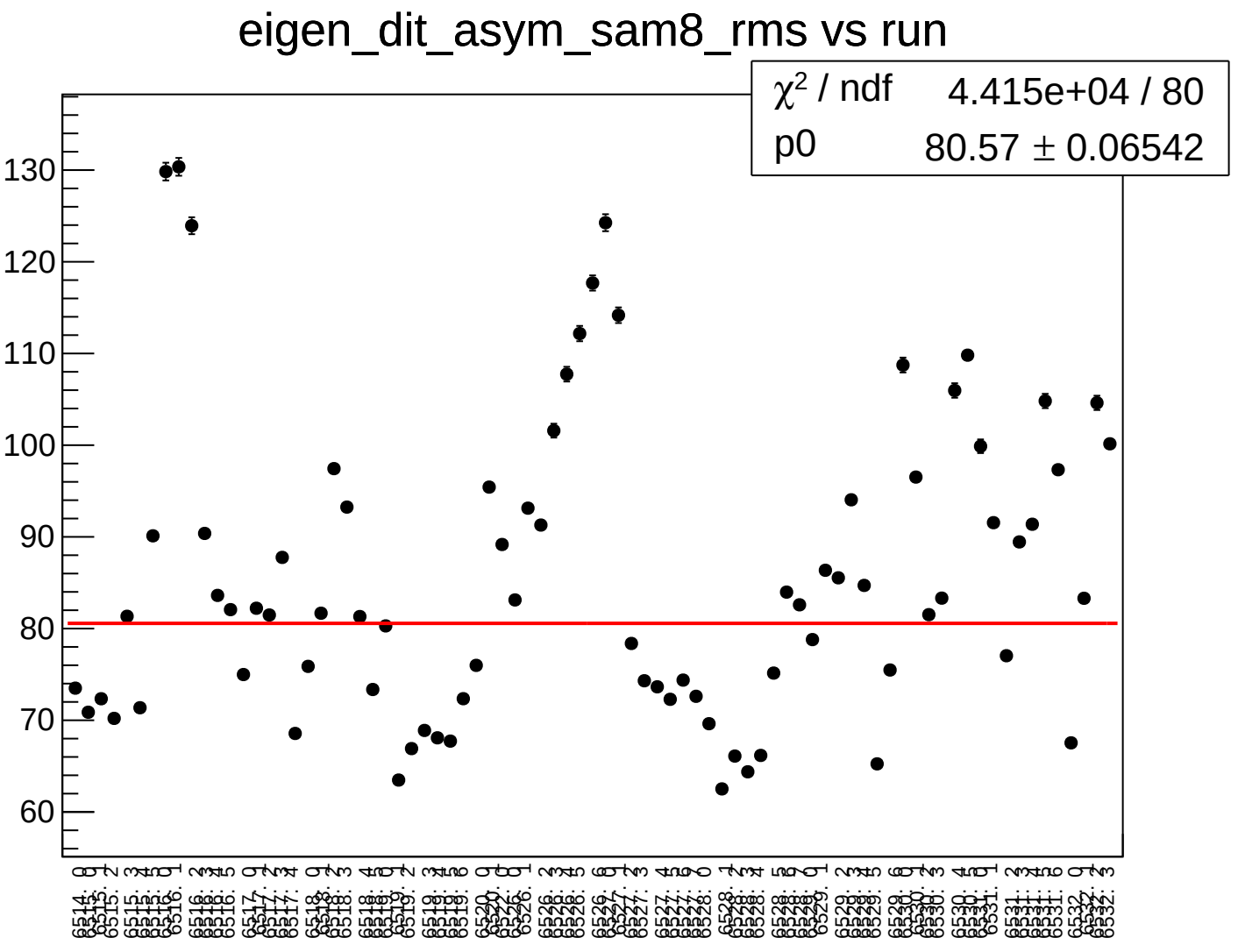

dit_asym_sam8_rms vs run
χ² / ndf 4.415e+04 / 80
p0 80.57 ± 0.06542
130
120
110
100
90
80
70
60

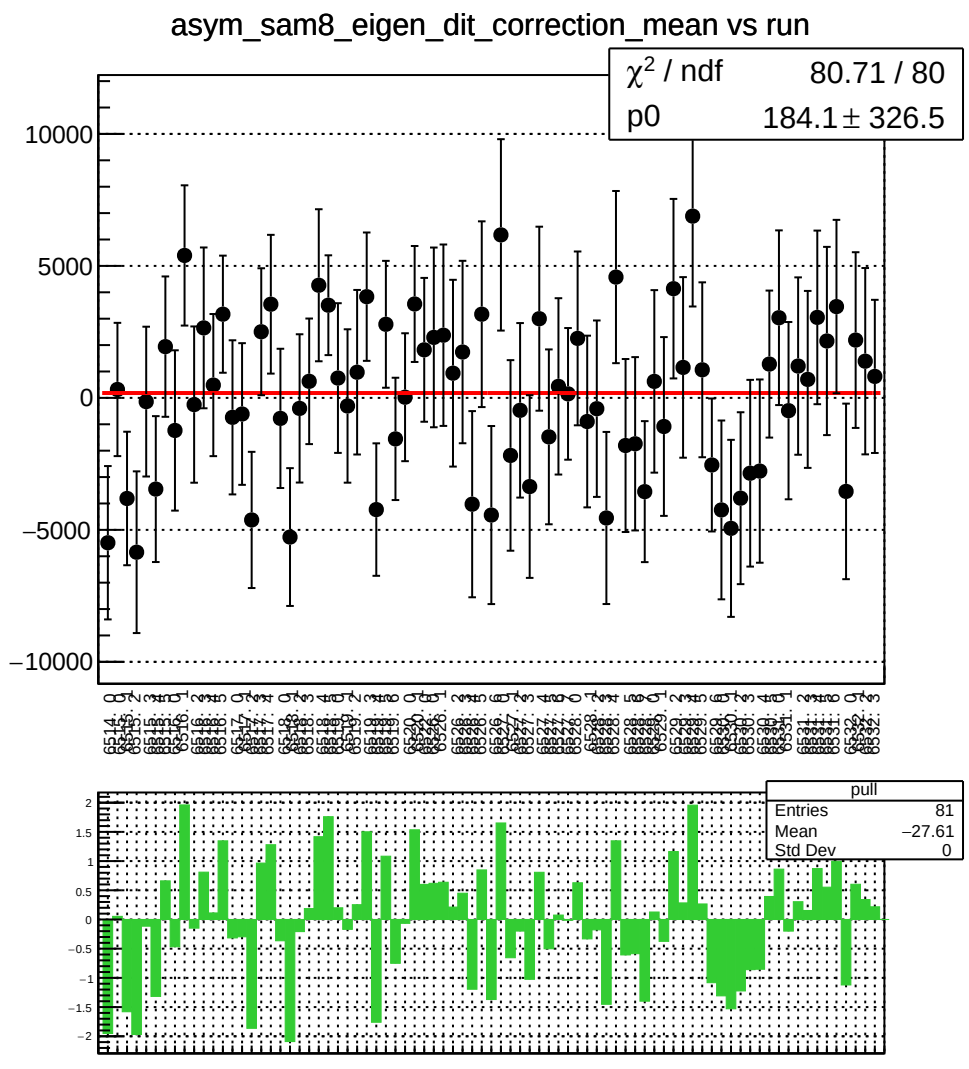

asym_sam8_dit_correction_mean vs run
χ² / ndf 80.71 / 80
p0 184.1 ± 326.5
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −27.61
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

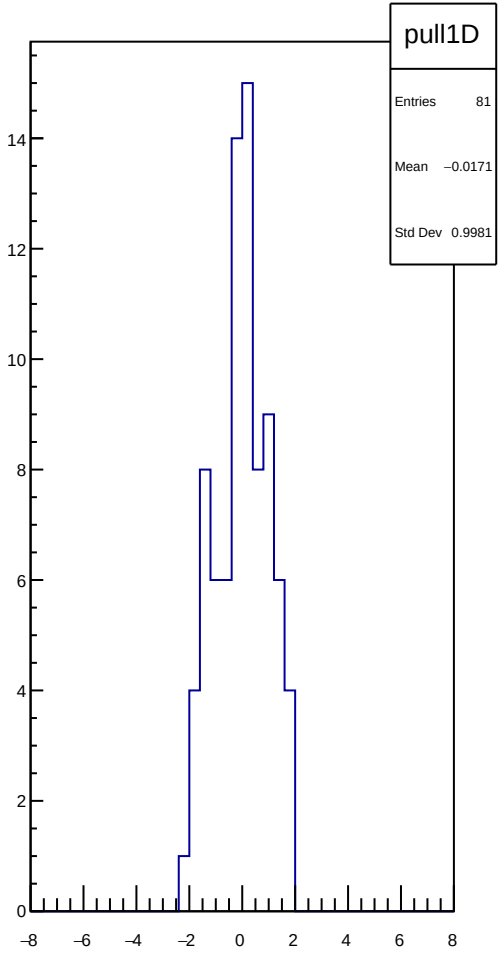

pull1D
Entries 81
Mean −0.0171
Std Dev 0.9981
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

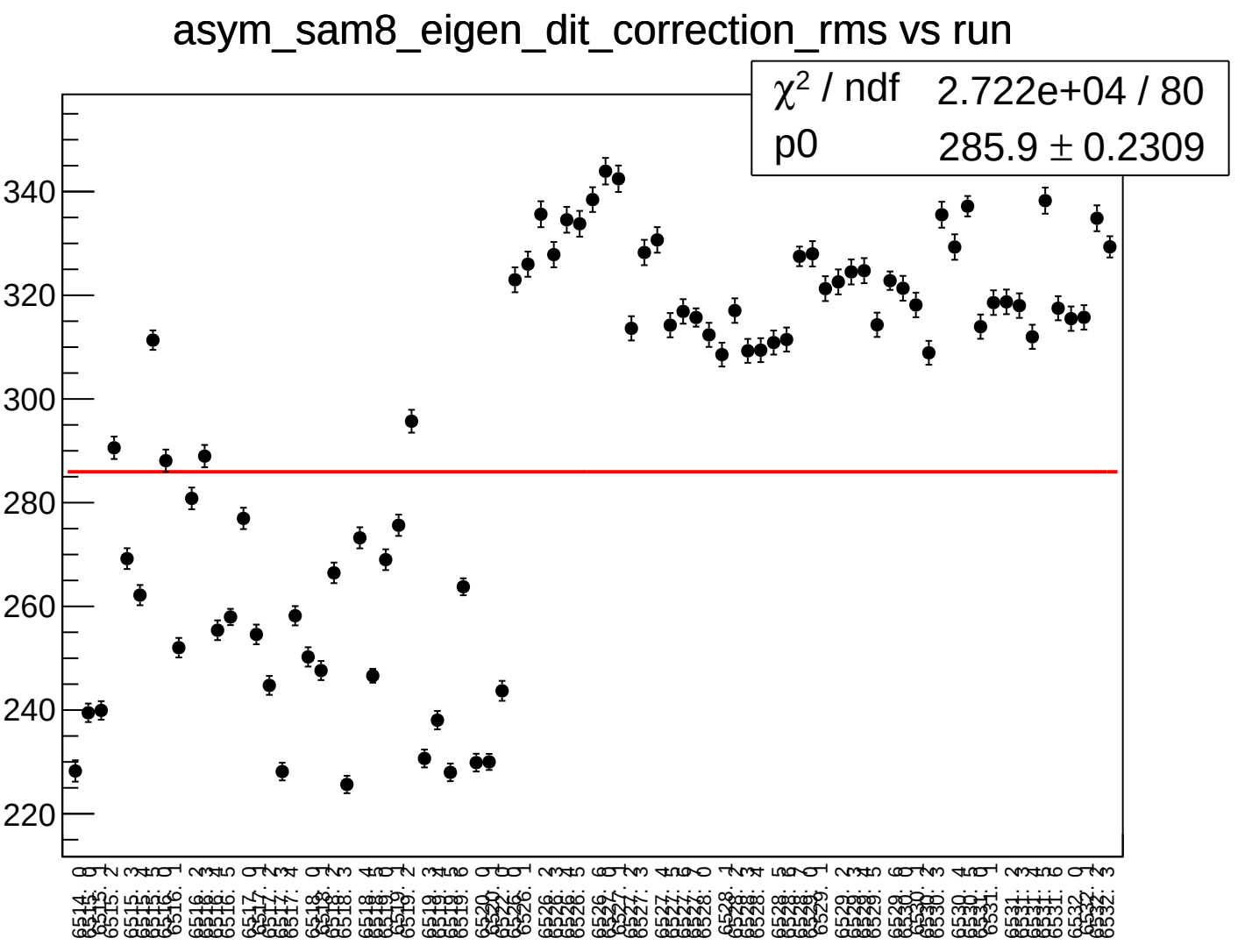

asym_sam8_dit_correction_rms vs run
χ^2 / ndf 2.722e+04 / 80
p0 286 ± 0.2309
340
320
300
280
260
240
220

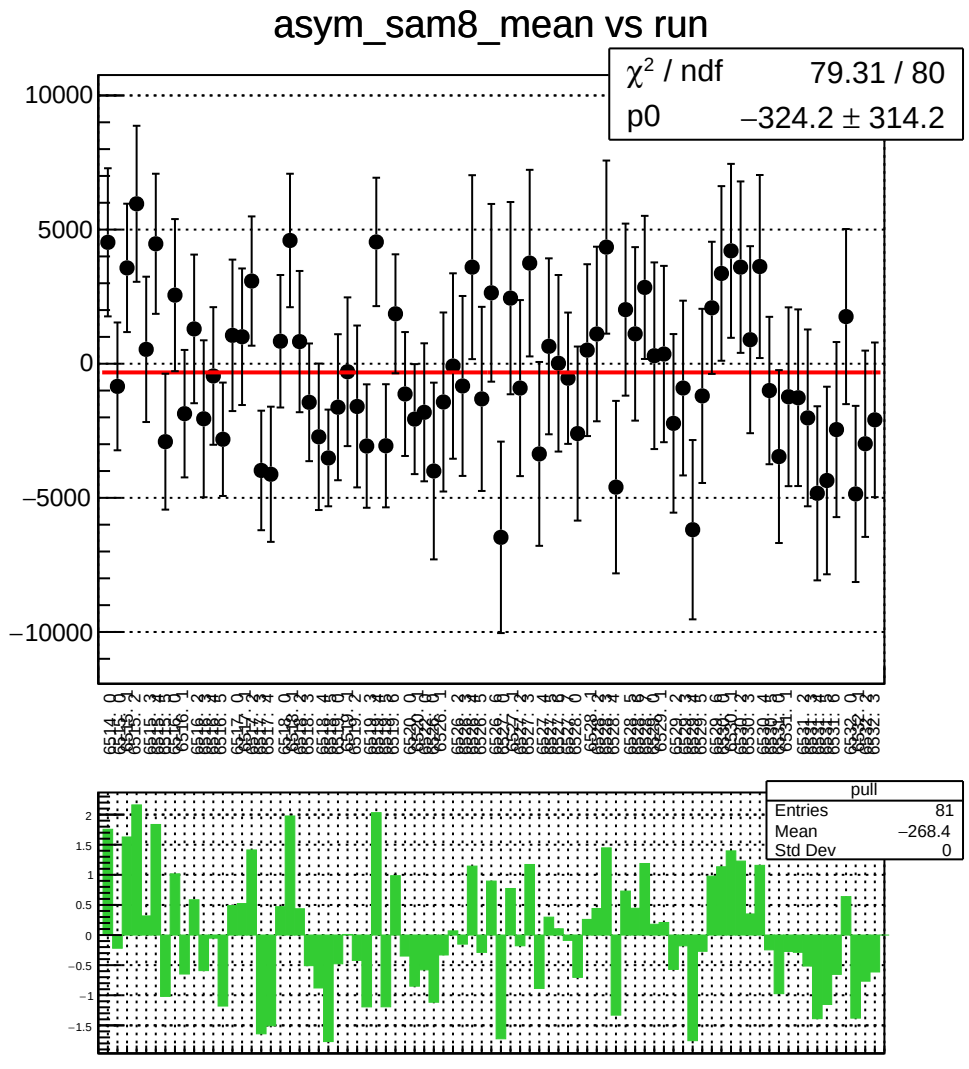

eigen_dit_asym_sam8_mean vs run
χ² / ndf 96.86 / 80
p0 −214.6 ± 92.52
4000
2000
0
−2000
−4000
pull
Entries 81
Mean −408.7
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 81
Mean 0.01754
Std Dev 1.093
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

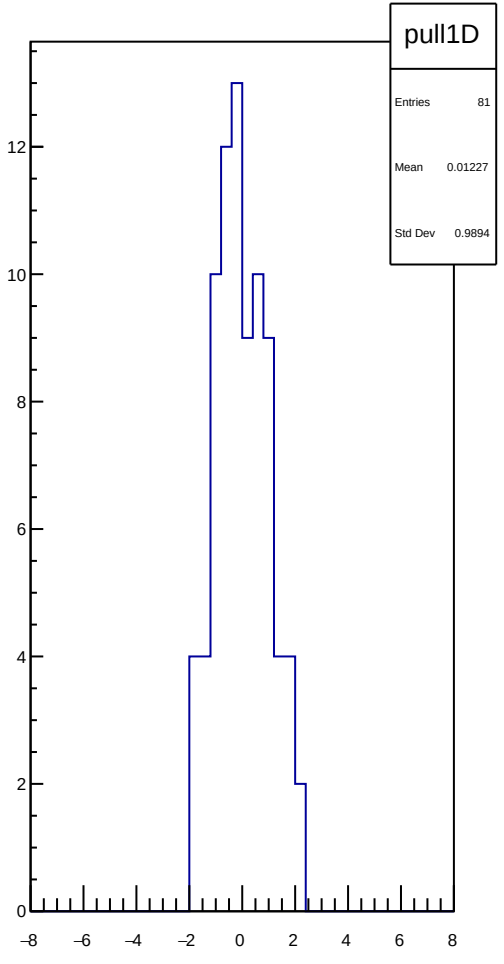

eigen_dit_asym_sam8_rms vs run
χ² / ndf 4.415e+04 / 80
p0 80.57 ± 0.06542
130
120
110
100
90
80
70
60

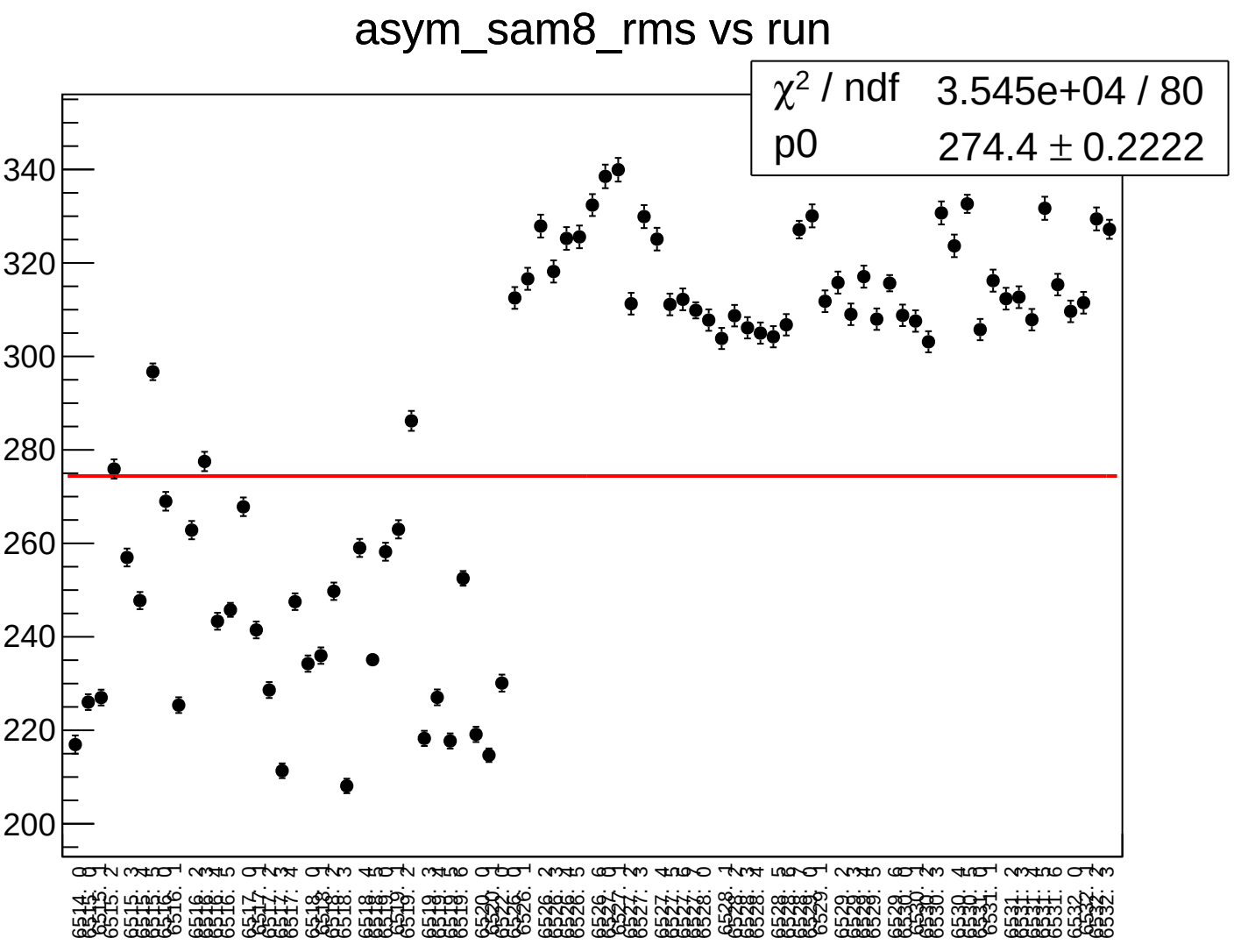

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 80.71 / 80
p0 184.1 ± 326.5
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −27.61
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

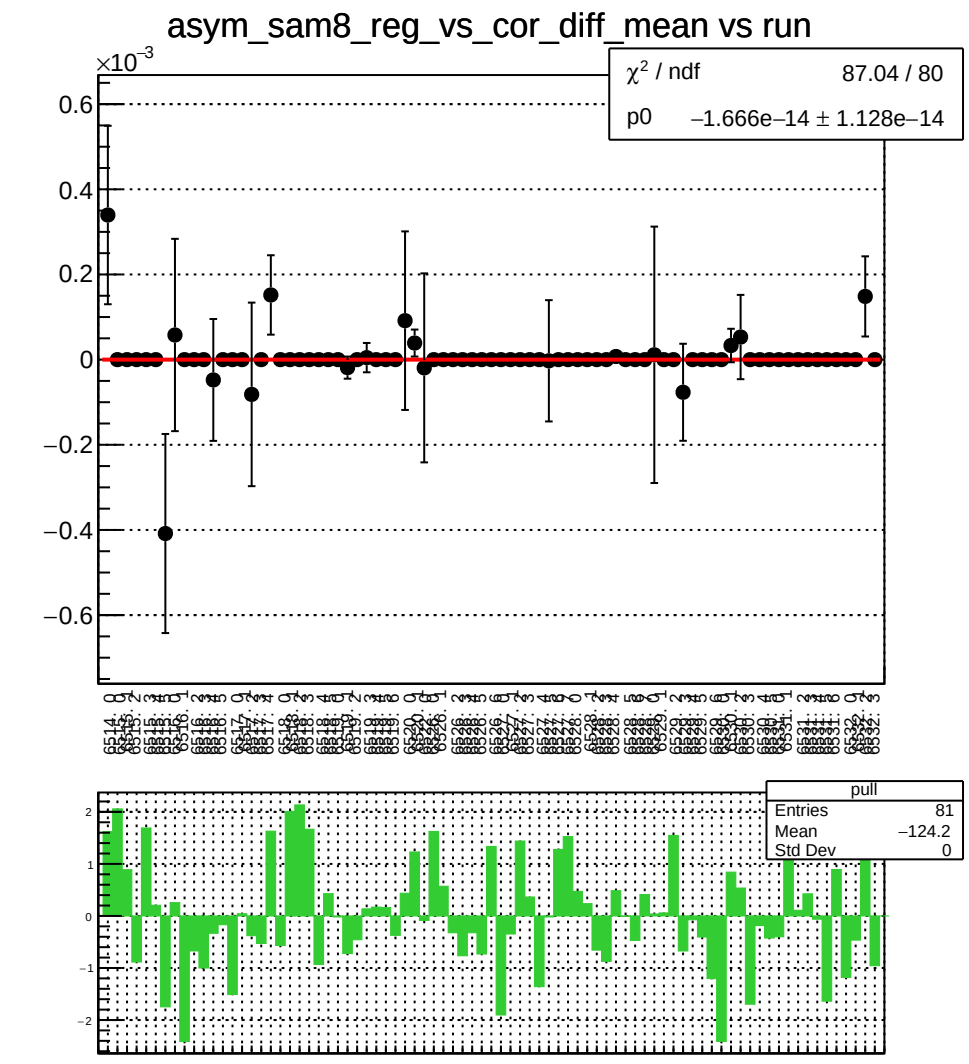

pull1D
Entries 81
Mean −0.0171
Std Dev 0.9981
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

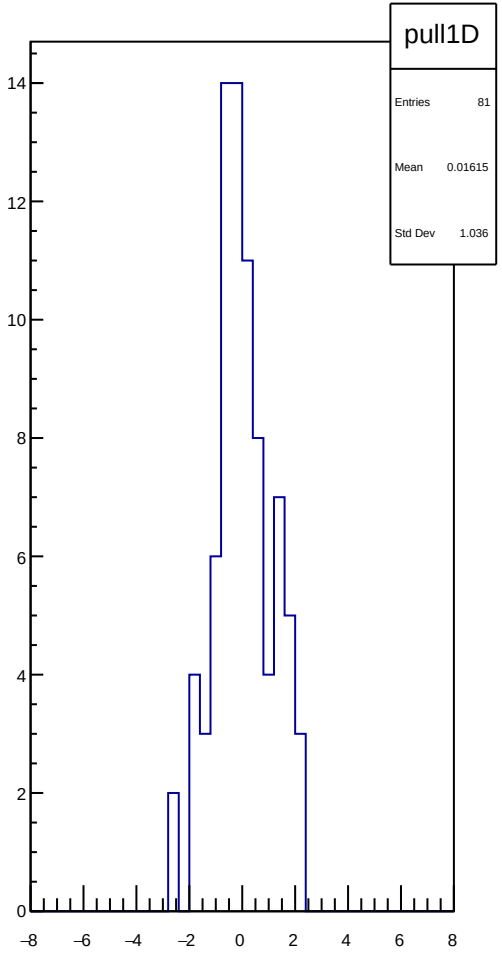

asym_sam8_eigen_dit_correction_rms vs run
χ² / ndf 2.722e+04 / 80
p0 285.9 ± 0.2309
340
320
300
280
260
240
220

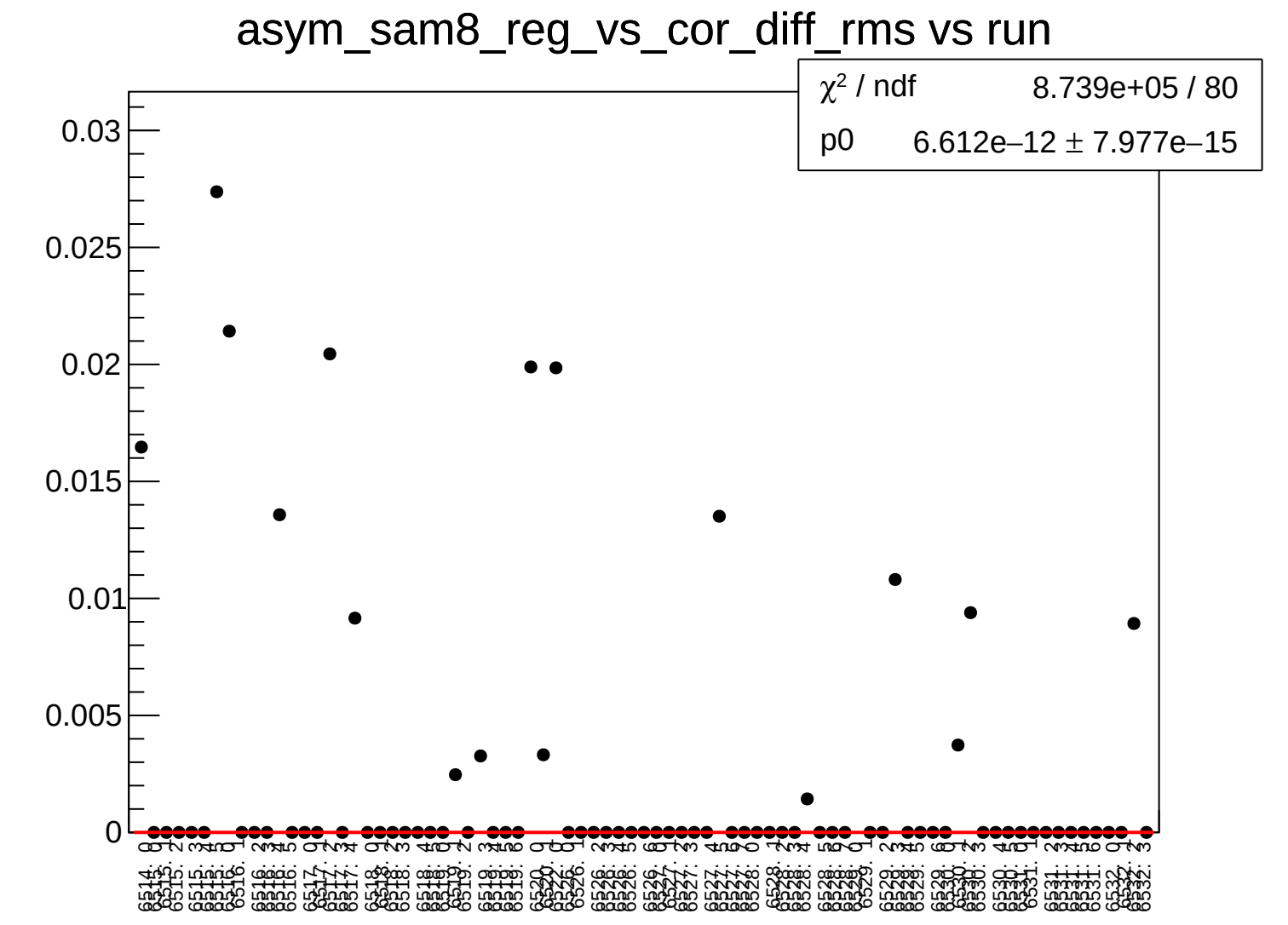

asym_sam8_mean vs run
χ² / ndf 79.31 / 80
p0 −324.2 ± 314.2
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −268.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

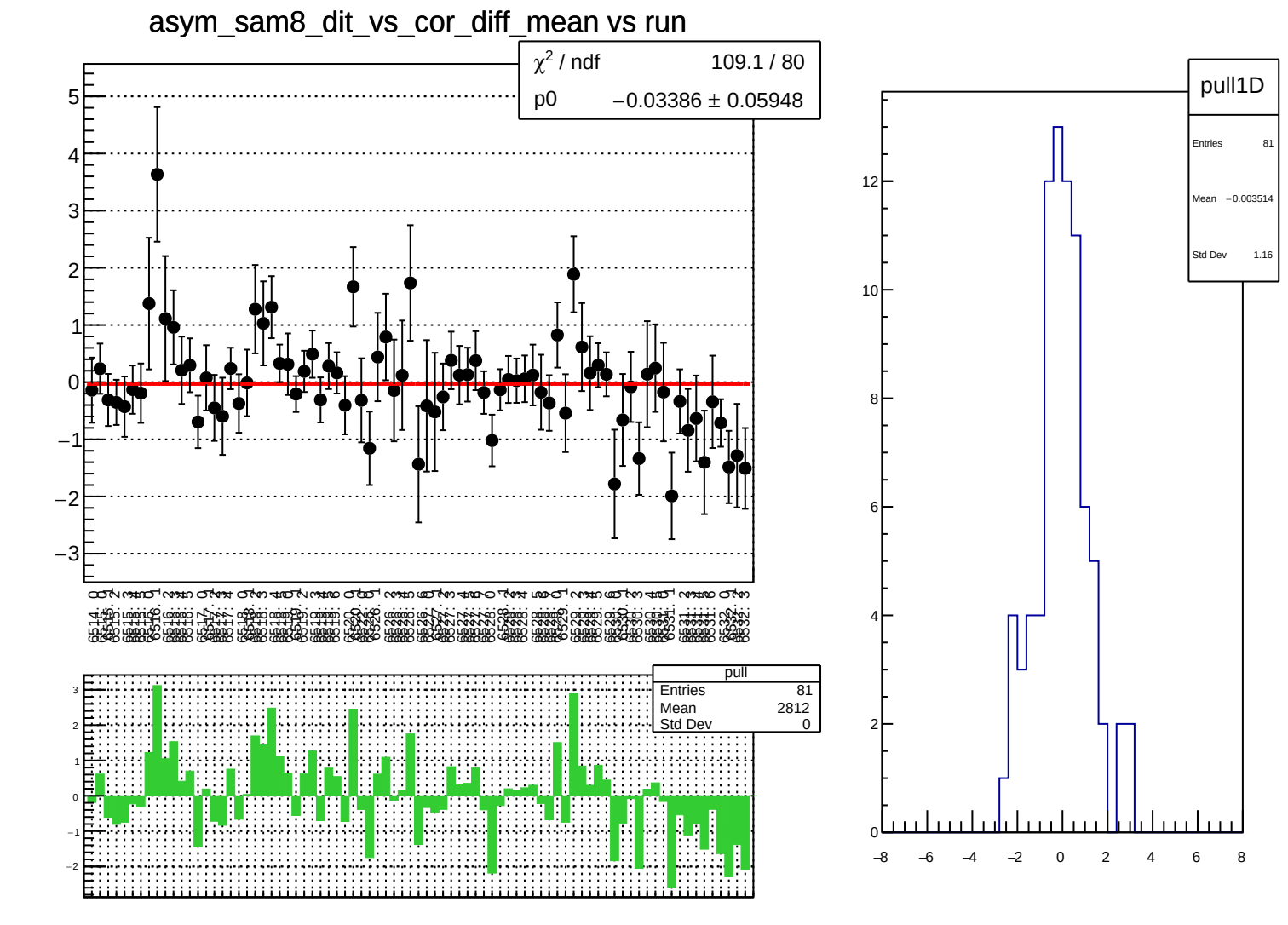

pull1D
Entries 81
Mean 0.01227
Std Dev 0.9894
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

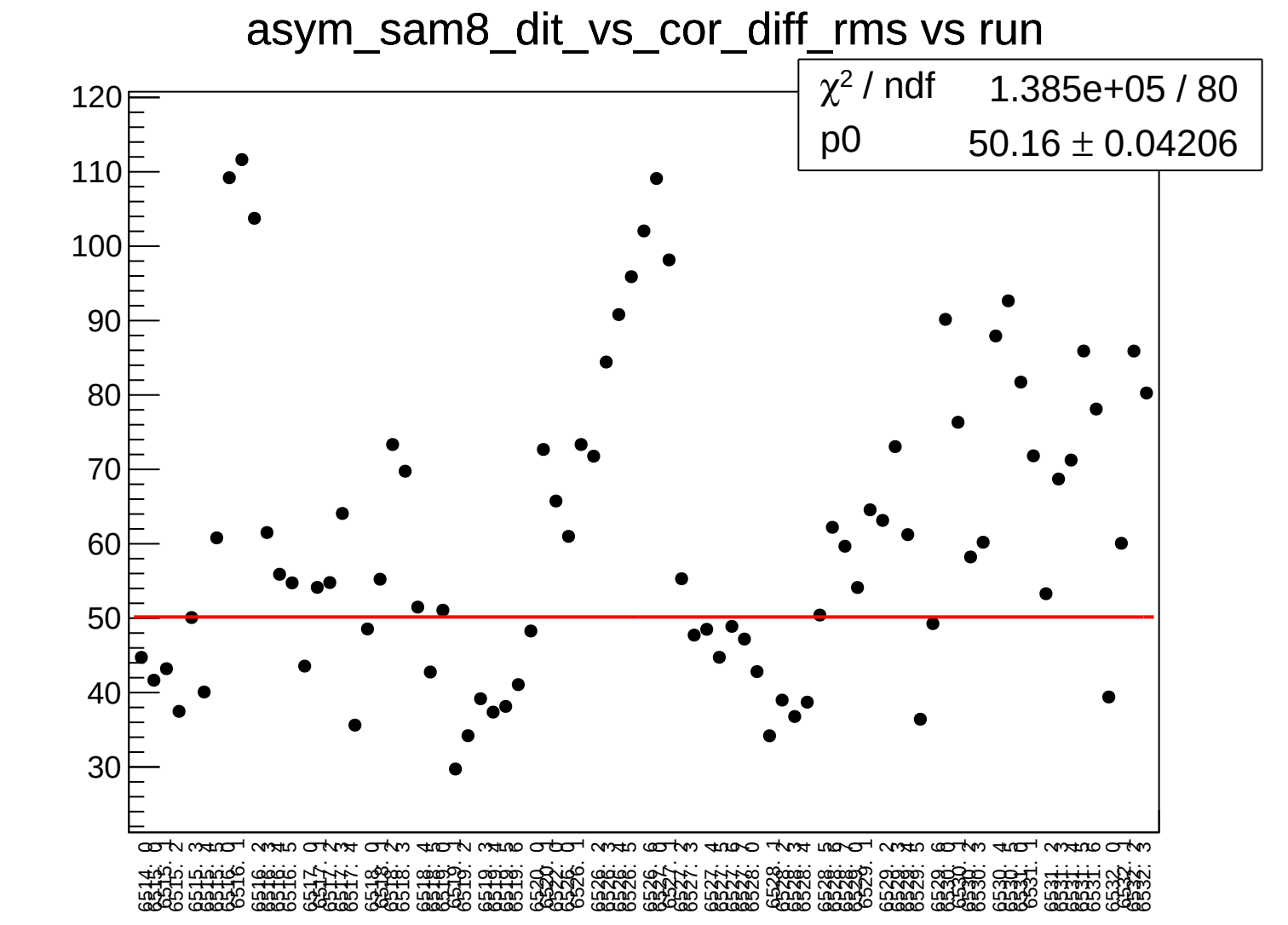

asym_sam8_rms vs run
χ² / ndf 3.545e+04 / 80
p0 274.4 ± 0.2222
340
320
300
280
260
240
220
200

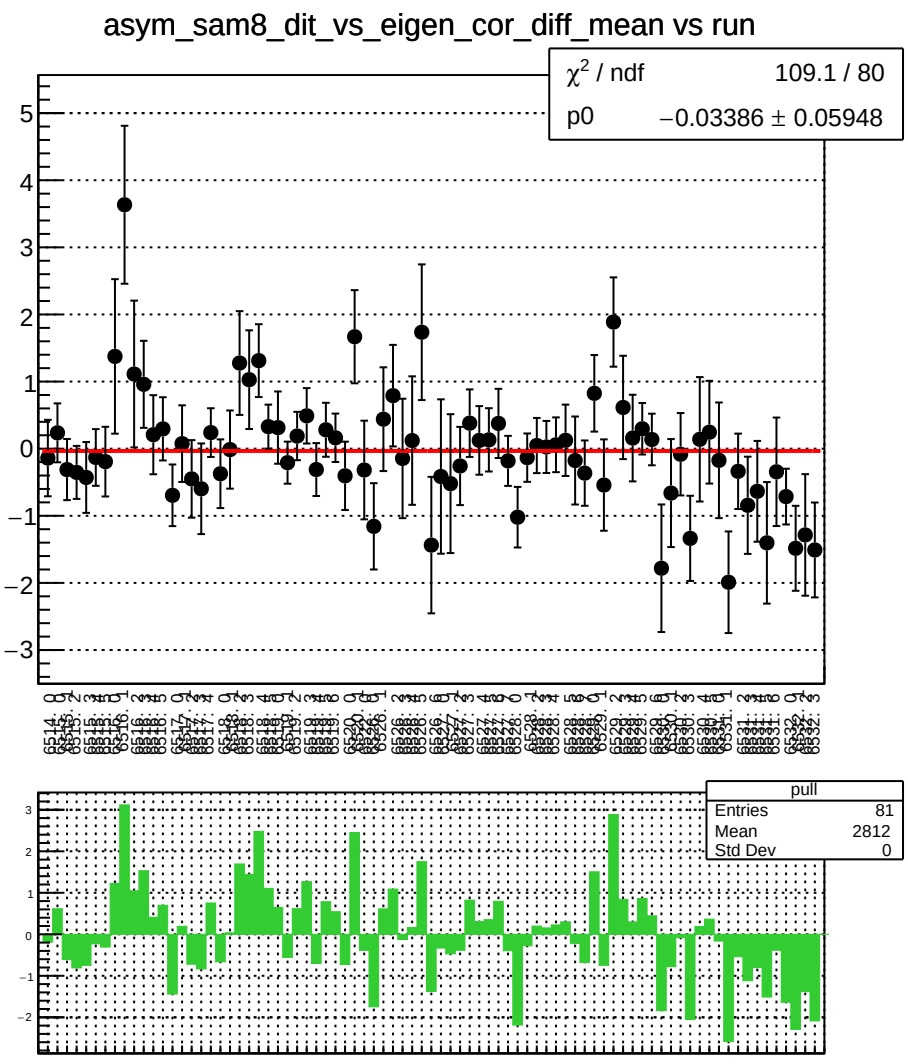

asym_sam8_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 87.04 / 80
p0 −1.666e−14 ± 1.128e−14
pull
Entries 81
Mean −124.2
Std Dev 0

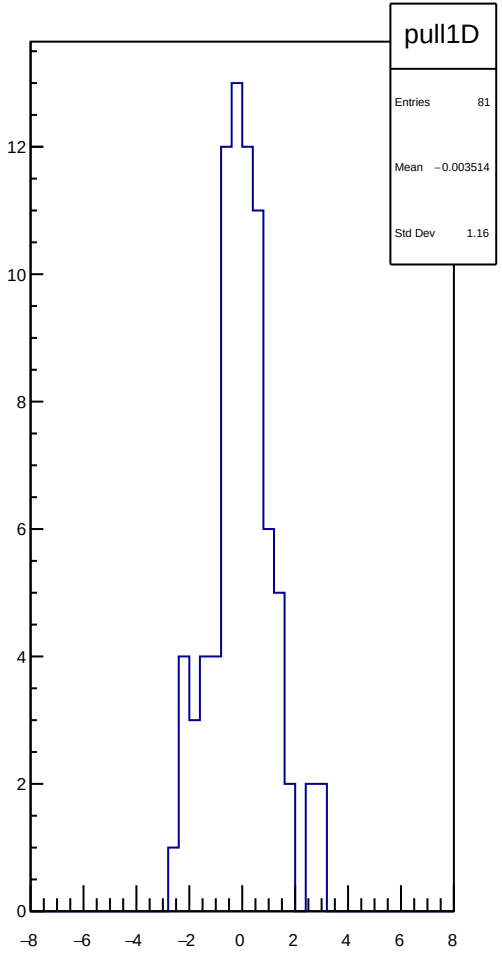

pull1D
Entries 81
Mean 0.01615
Std Dev 1.036

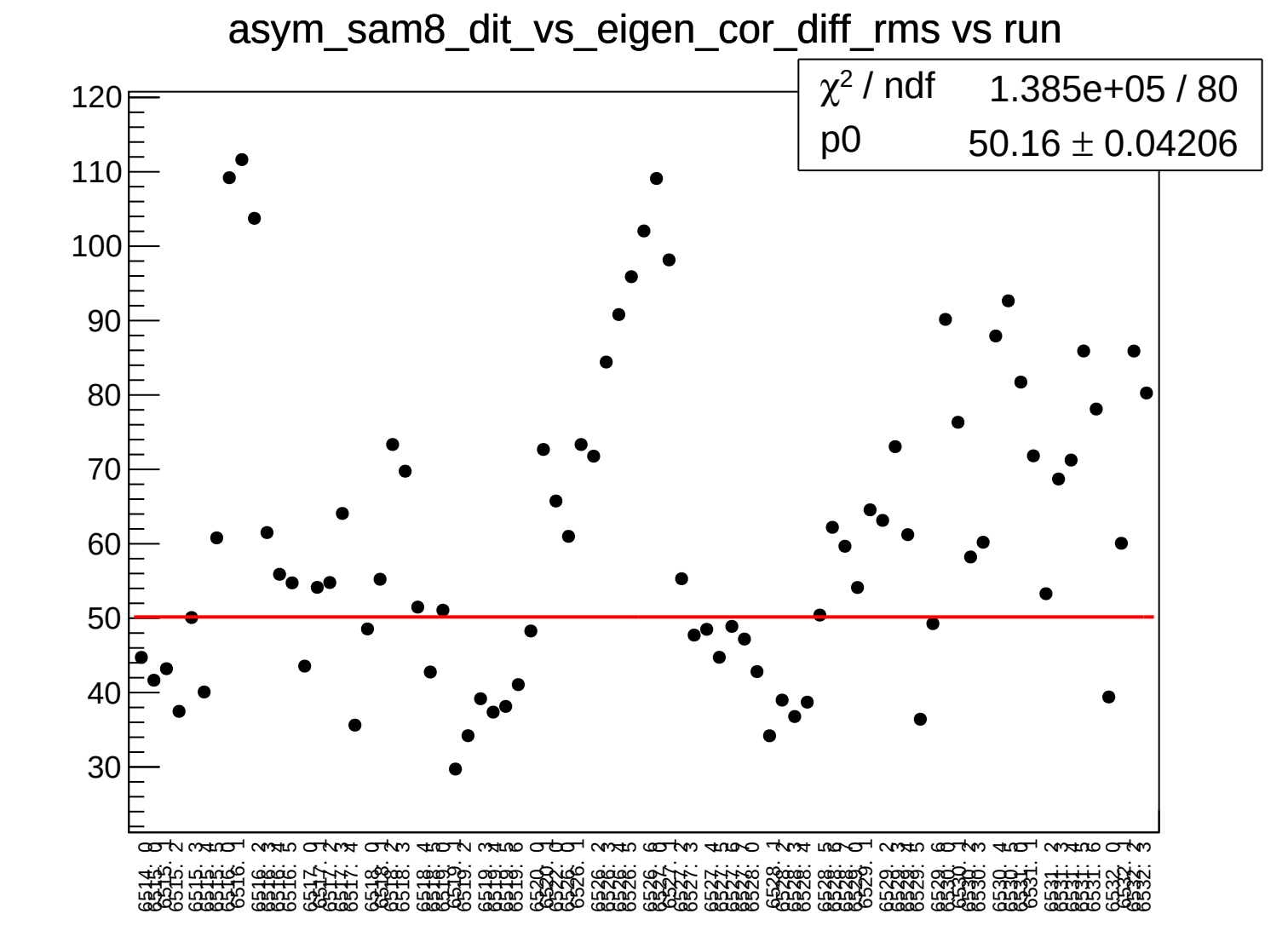

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 8.739e+05 / 80
p0 6.612e−12 ± 7.977e−15
0.03
0.025
0.02
0.015
0.01
0.005
0

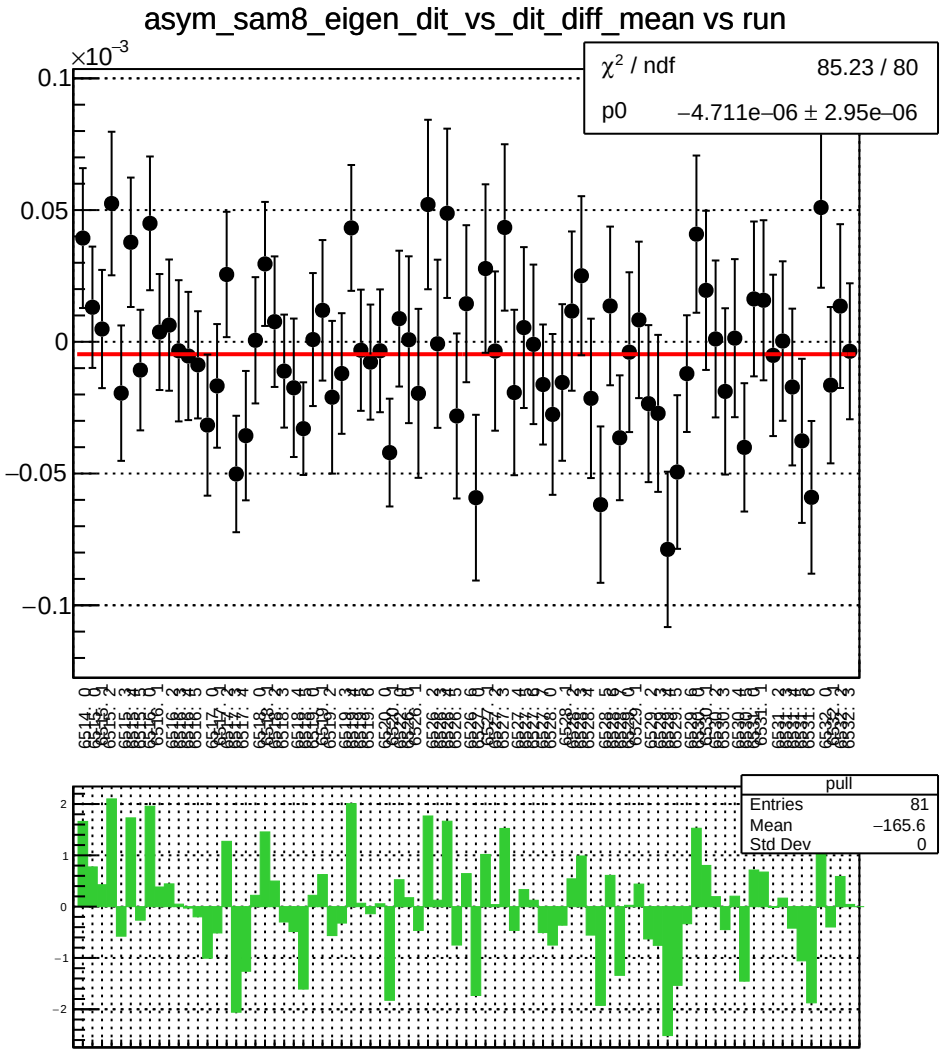

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 109.1 / 80
p0 −0.03386 ± 0.05948
pull
Entries 81
Mean 2812
Std Dev 0
pull1D
Entries 81
Mean −0.003514
Std Dev 1.16

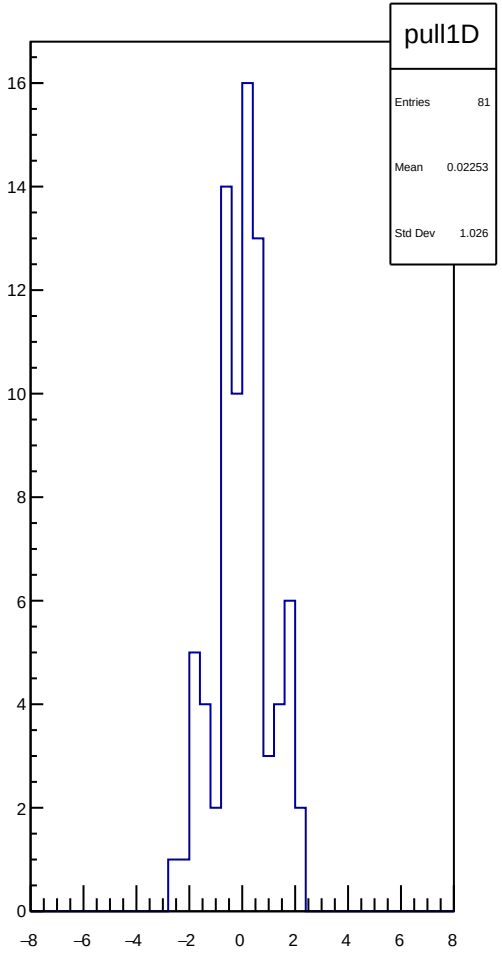

asym_sam8_dit_vs_cor_diff_rms vs run
χ² / ndf 1.385e+05 / 80
p0 50.16 ± 0.04206
120
110
100
90
80
70
60
50
40
30

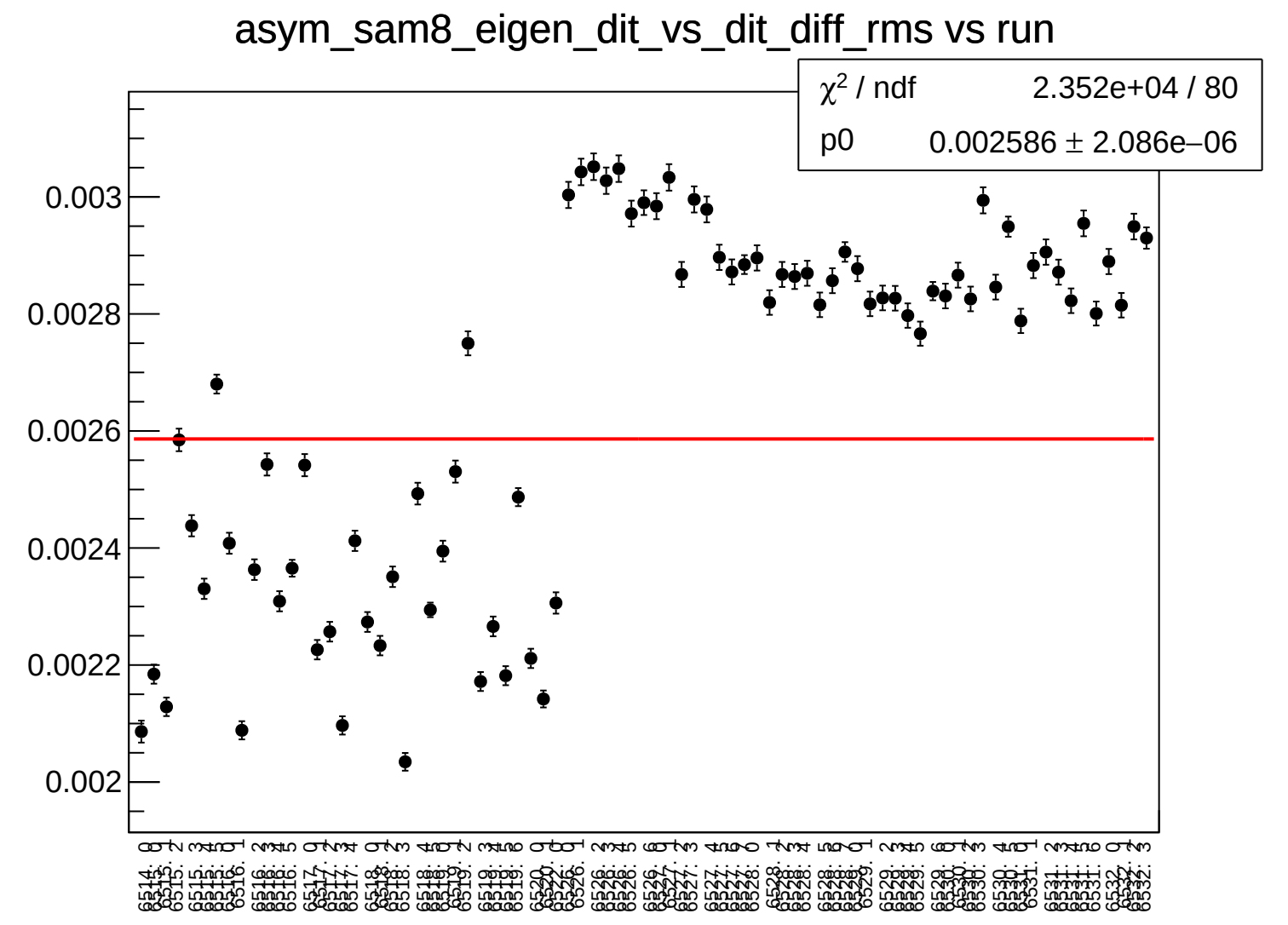

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.1 / 80
p0 −0.03386 ± 0.05948
pull
Entries 81
Mean 2812
Std Dev 0

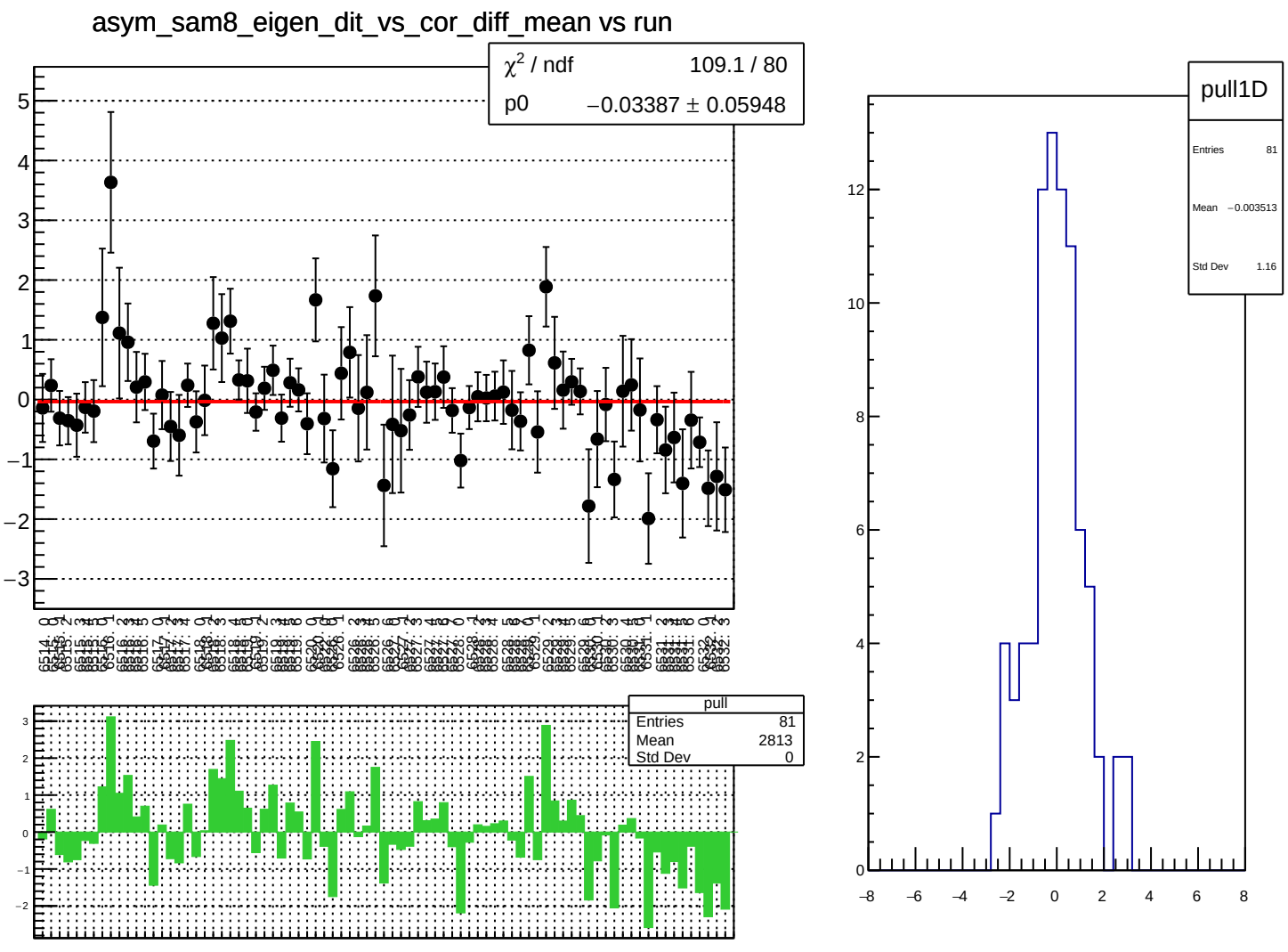

pull1D
Entries 81
Mean −0.003514
Std Dev 1.16

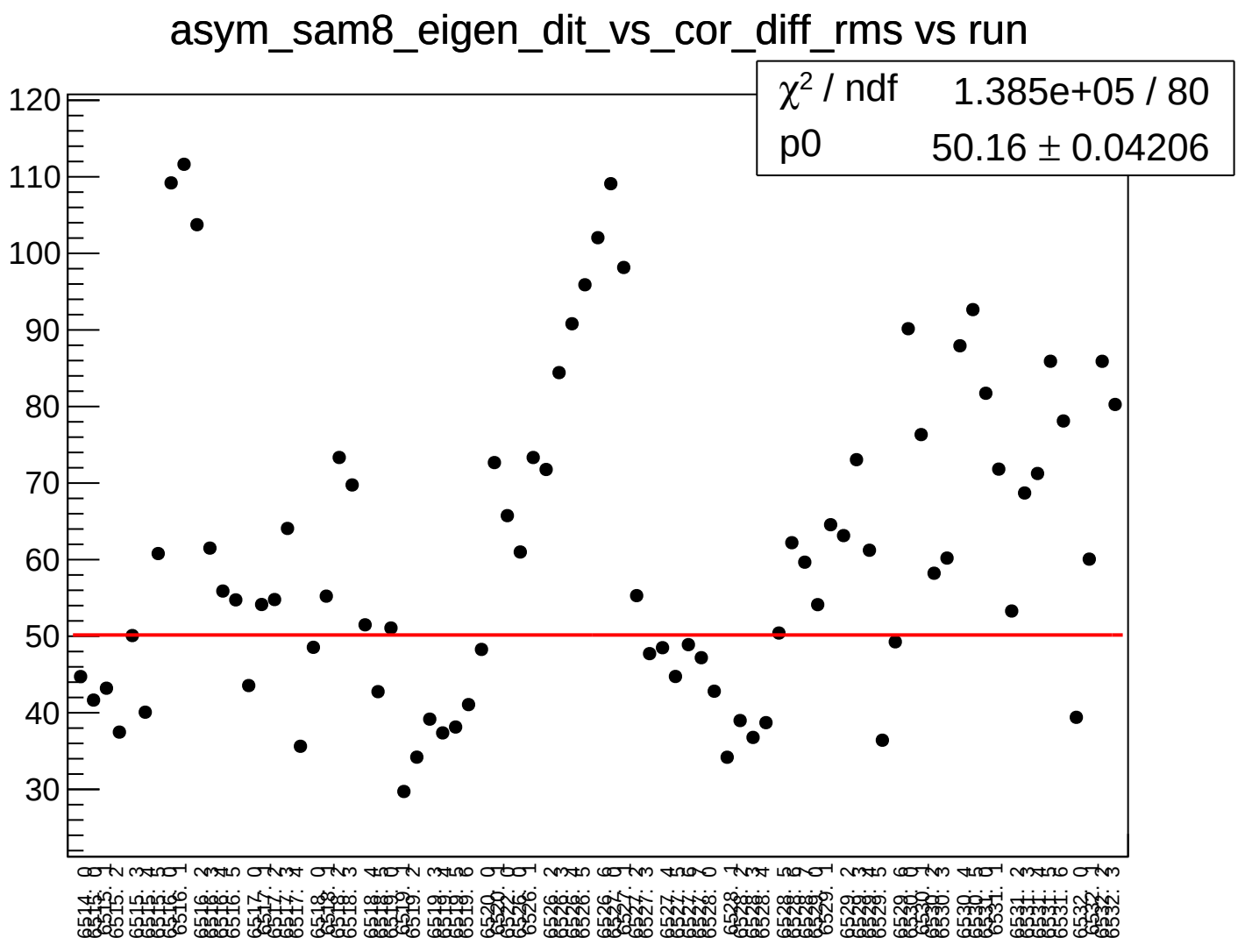

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.385e+05 / 80
p0 50.16 ± 0.04206
120
110
100
90
80
70
60
50
40
30

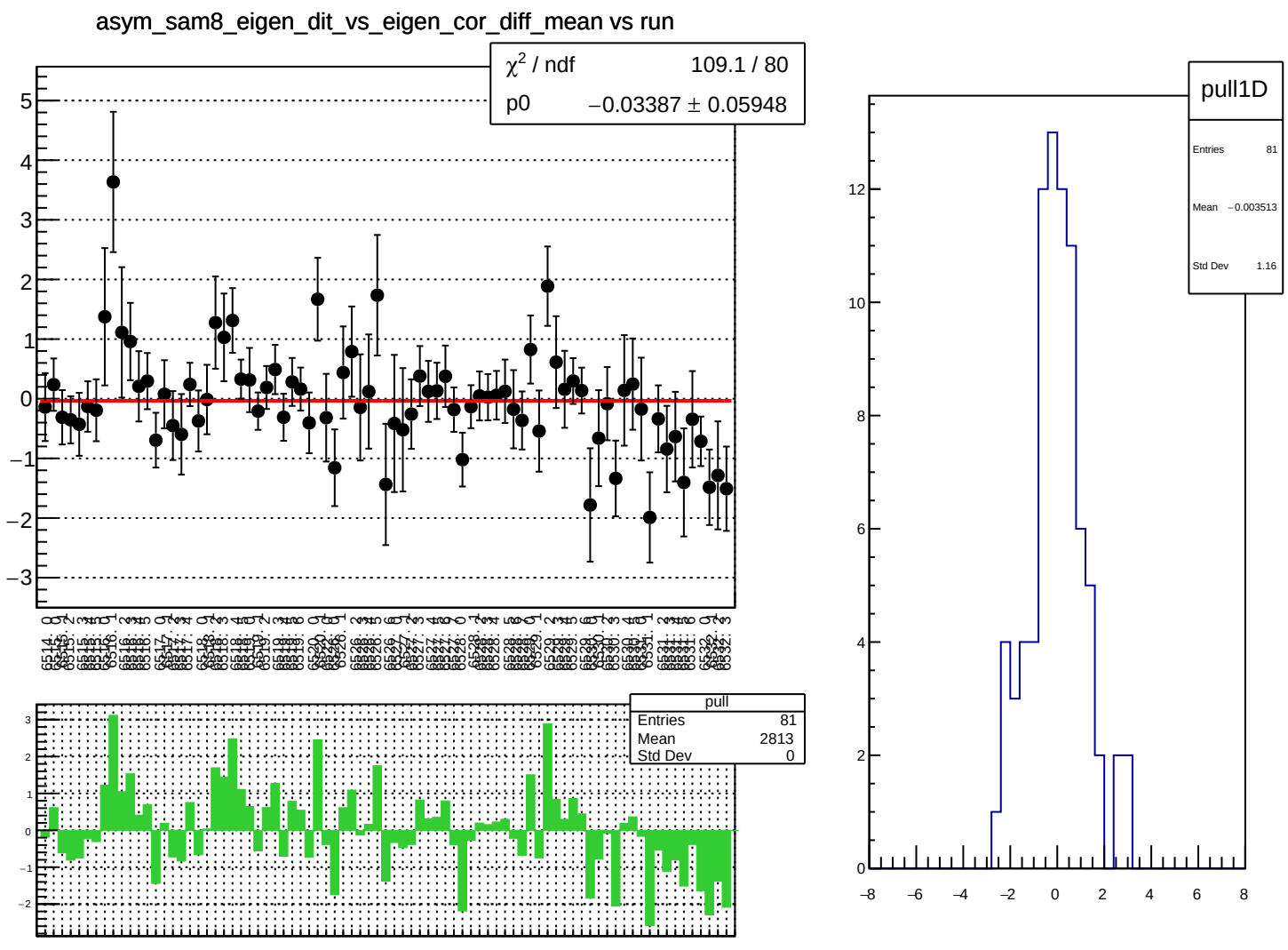

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.23 / 80
p0 −4.711e−06 ± 2.95e−06
pull
Entries 81
Mean −165.6
Std Dev 0

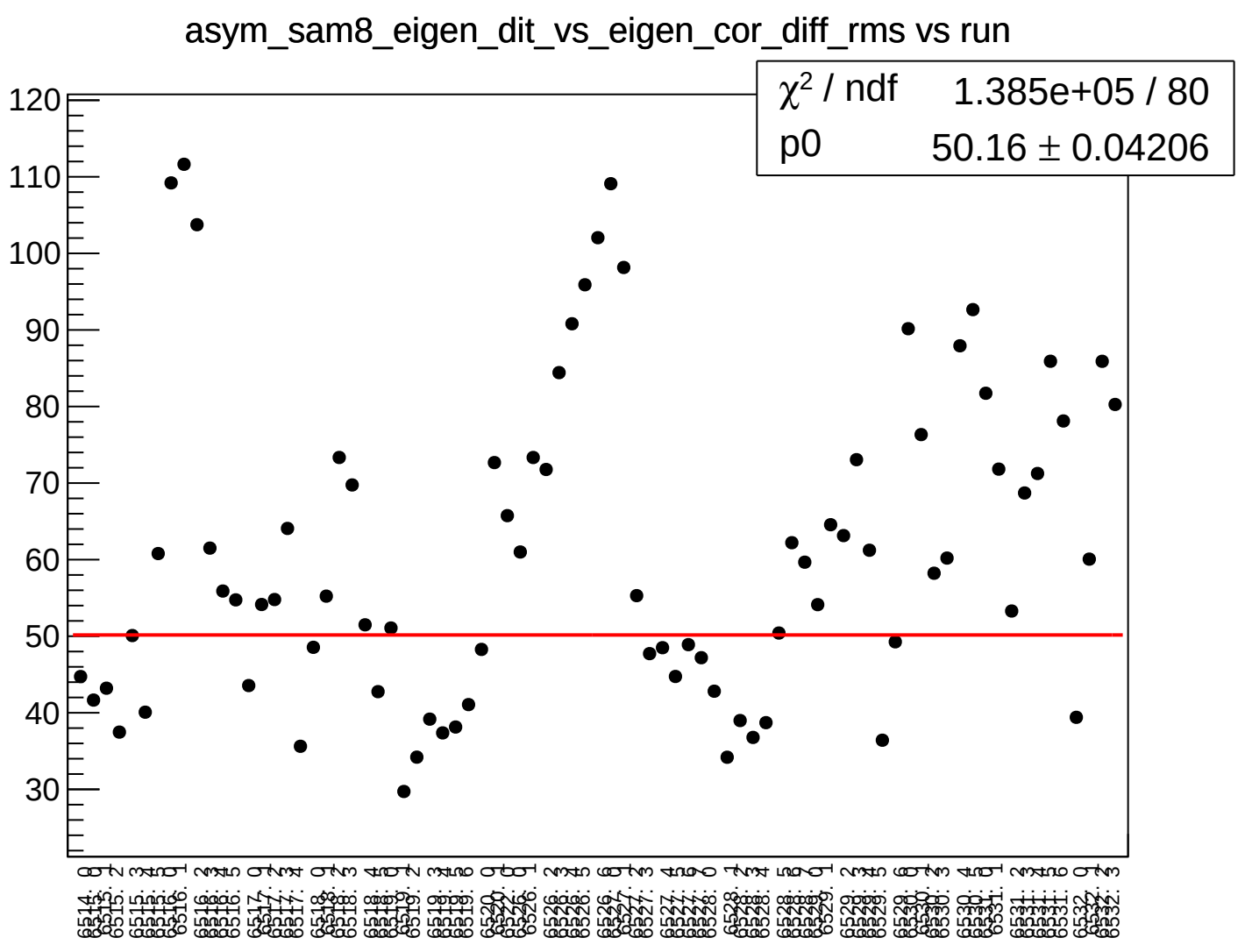

pull1D
Entries 81
Mean 0.02253
Std Dev 1.026

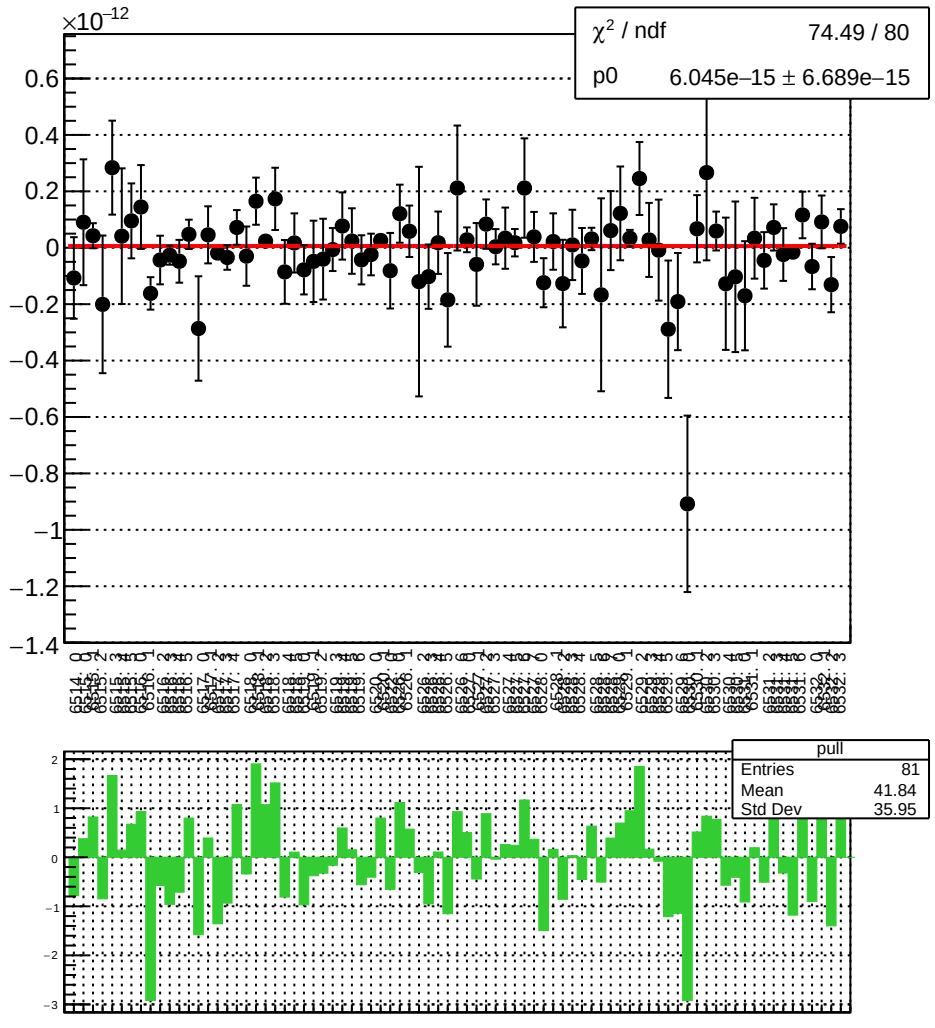

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.352e+04 / 80
p0 0.002586 ± 2.086e−06
0.003
0.0028
0.0026
0.0024
0.0022
0.002

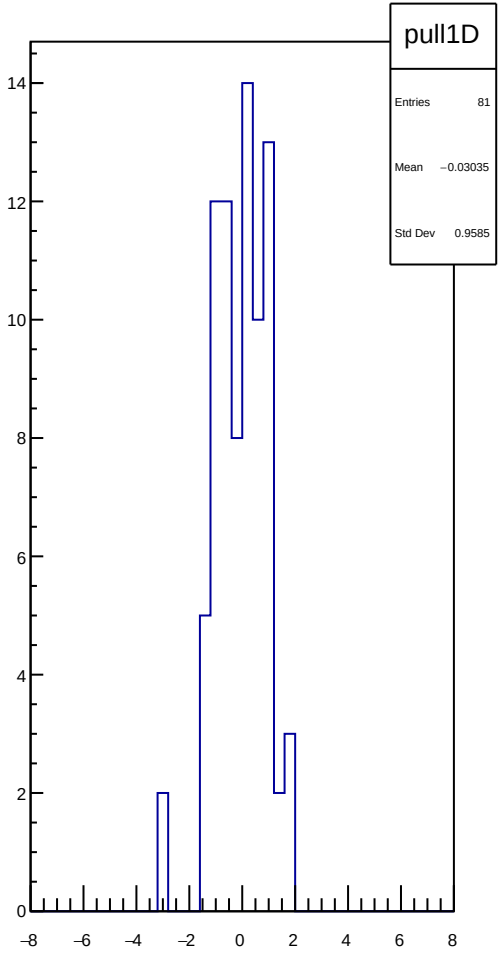

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 109.1 / 80
p0 −0.03387 ± 0.05948
pull
Entries 81
Mean 2813
Std Dev 0
pull1D
Entries 81
Mean −0.003513
Std Dev 1.16

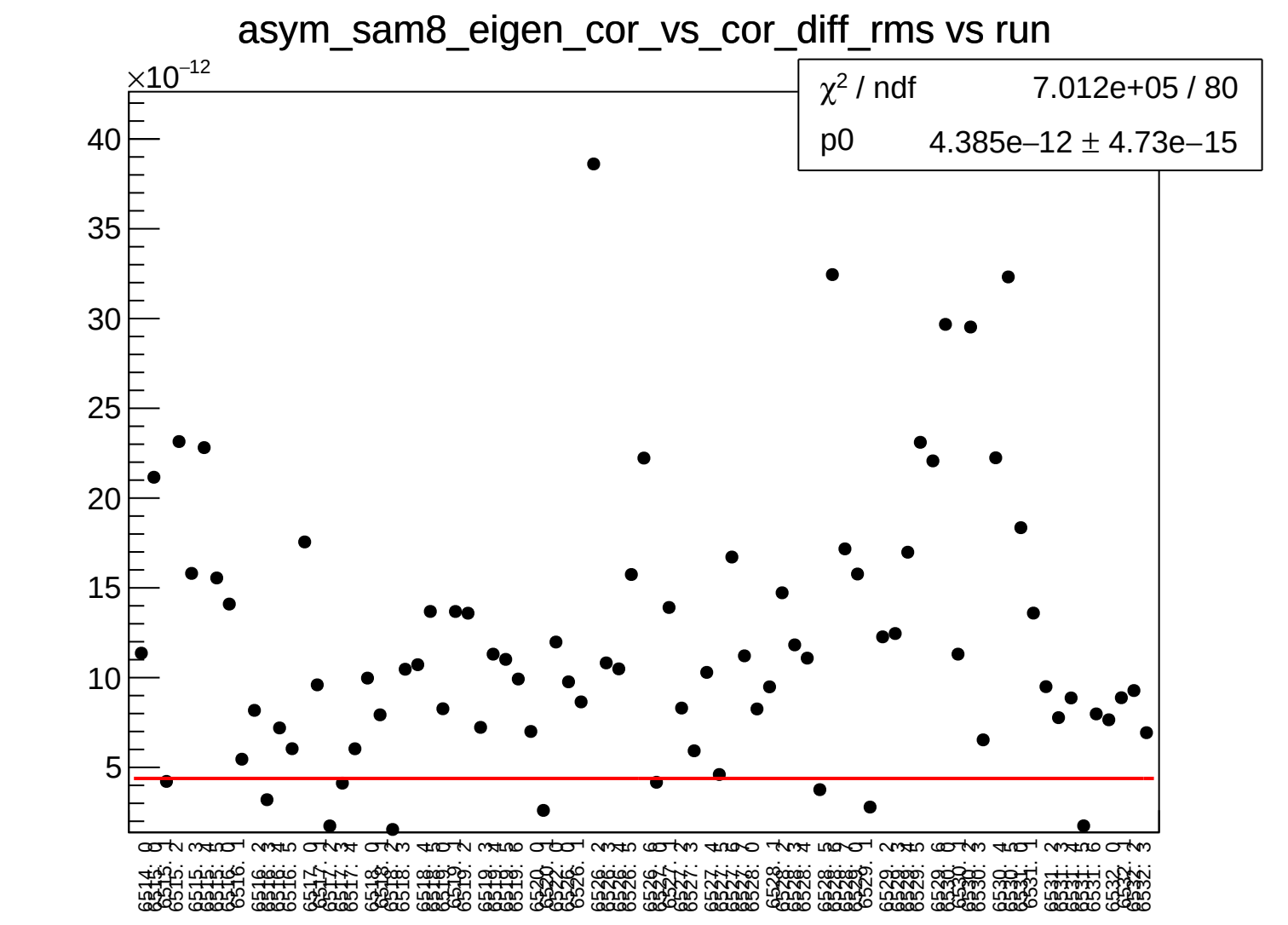

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.385e+05 / 80
p0 50.16 ± 0.04206
120
110
100
90
80
70
60
50
40
30

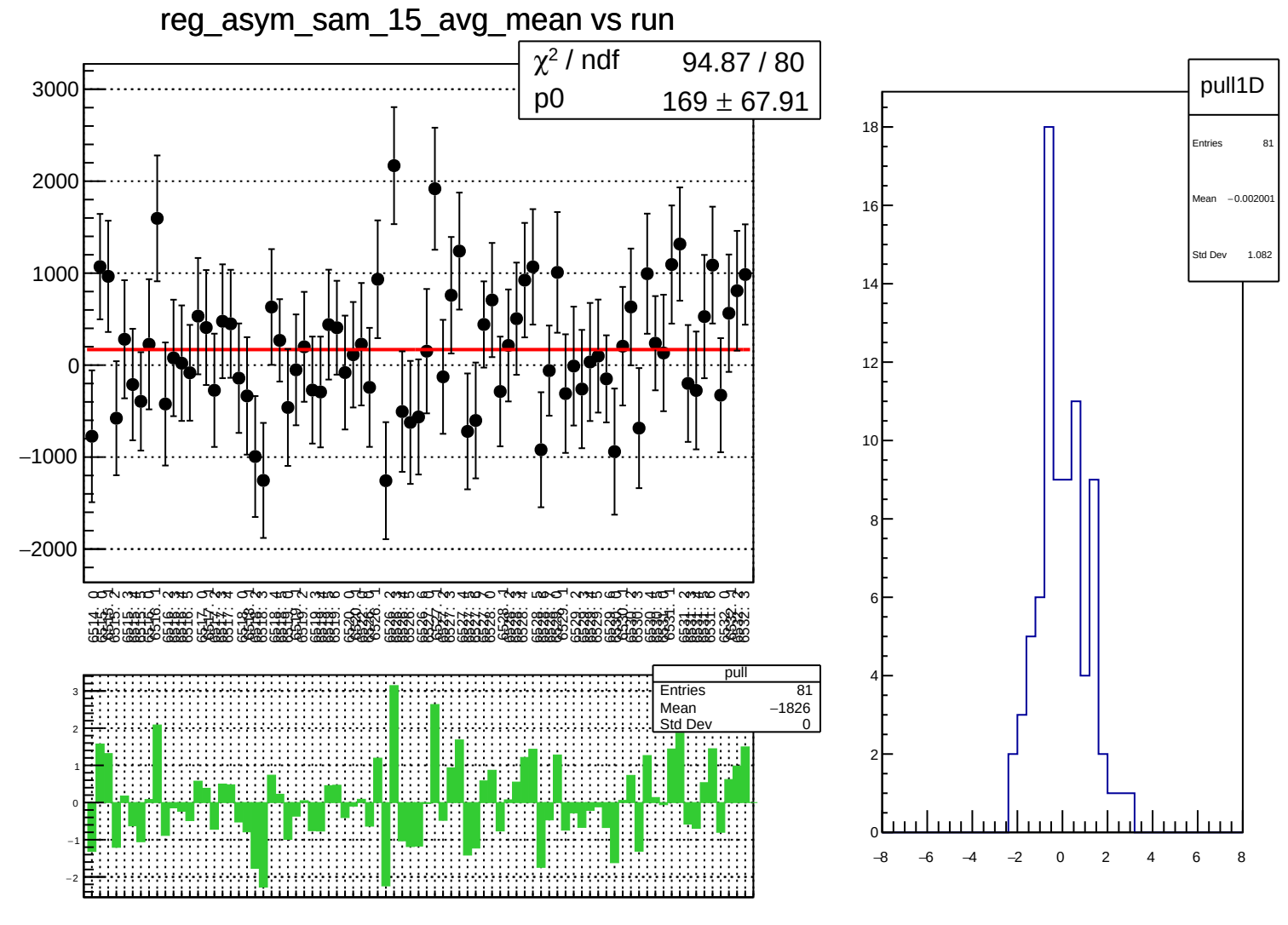

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.1 / 80
p0 −0.03387 ± 0.05948
pull
Entries 81
Mean 2813
Std Dev 0
pull1D
Entries 81
Mean −0.003513
Std Dev 1.16

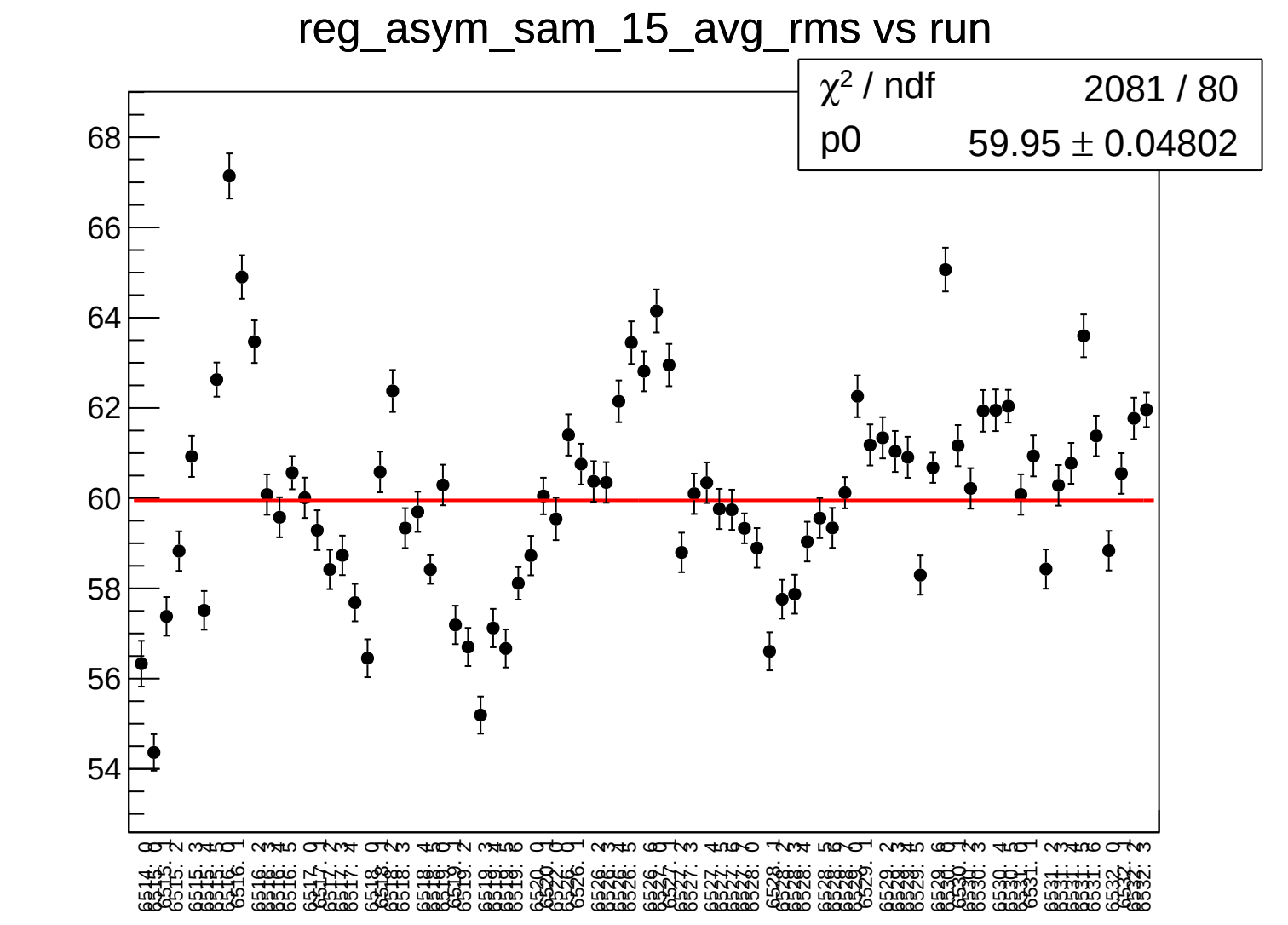

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.385e+05 / 80
p0 50.16 ± 0.04206
120
110
100
90
80
70
60
50
40
30

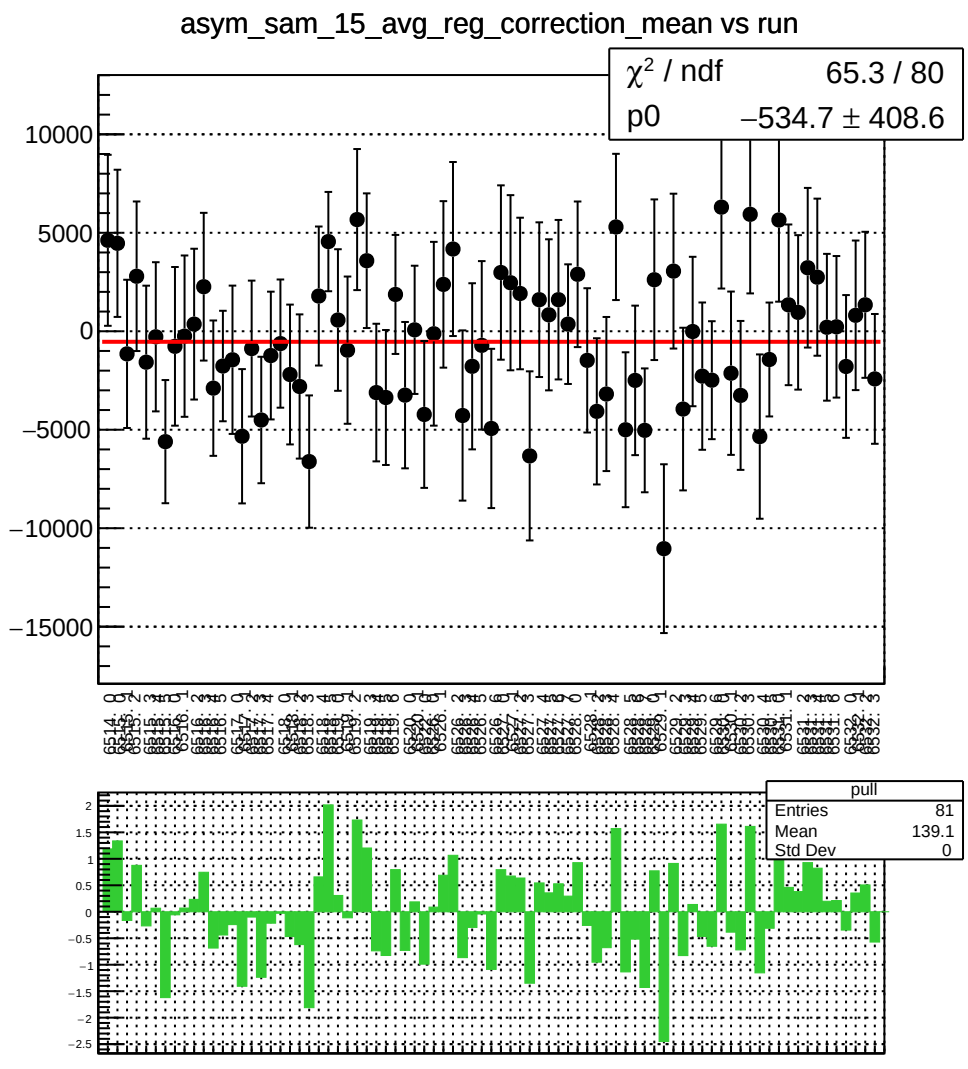

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.49 / 80
p0 6.045e−15 ± 6.689e−15
pull
Entries 81
Mean 41.84
Std Dev 35.95

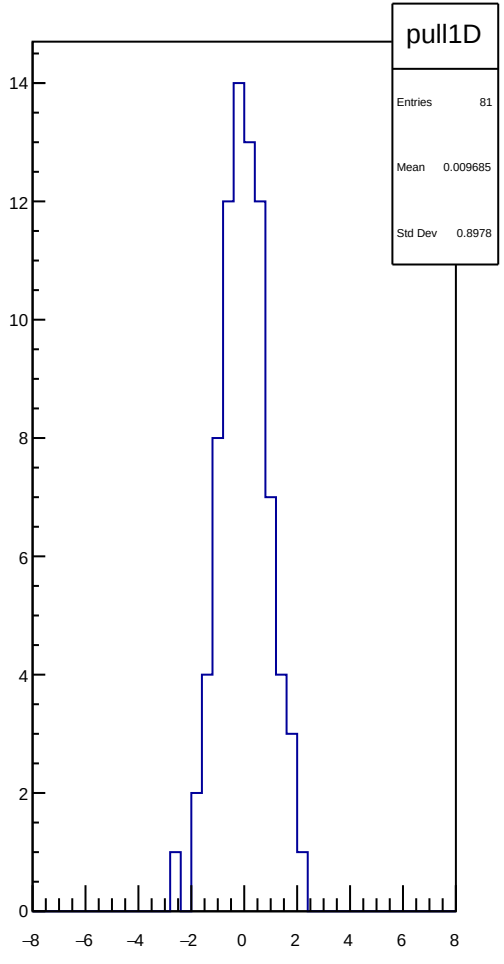

pull1D
Entries 81
Mean −0.03035
Std Dev 0.9585

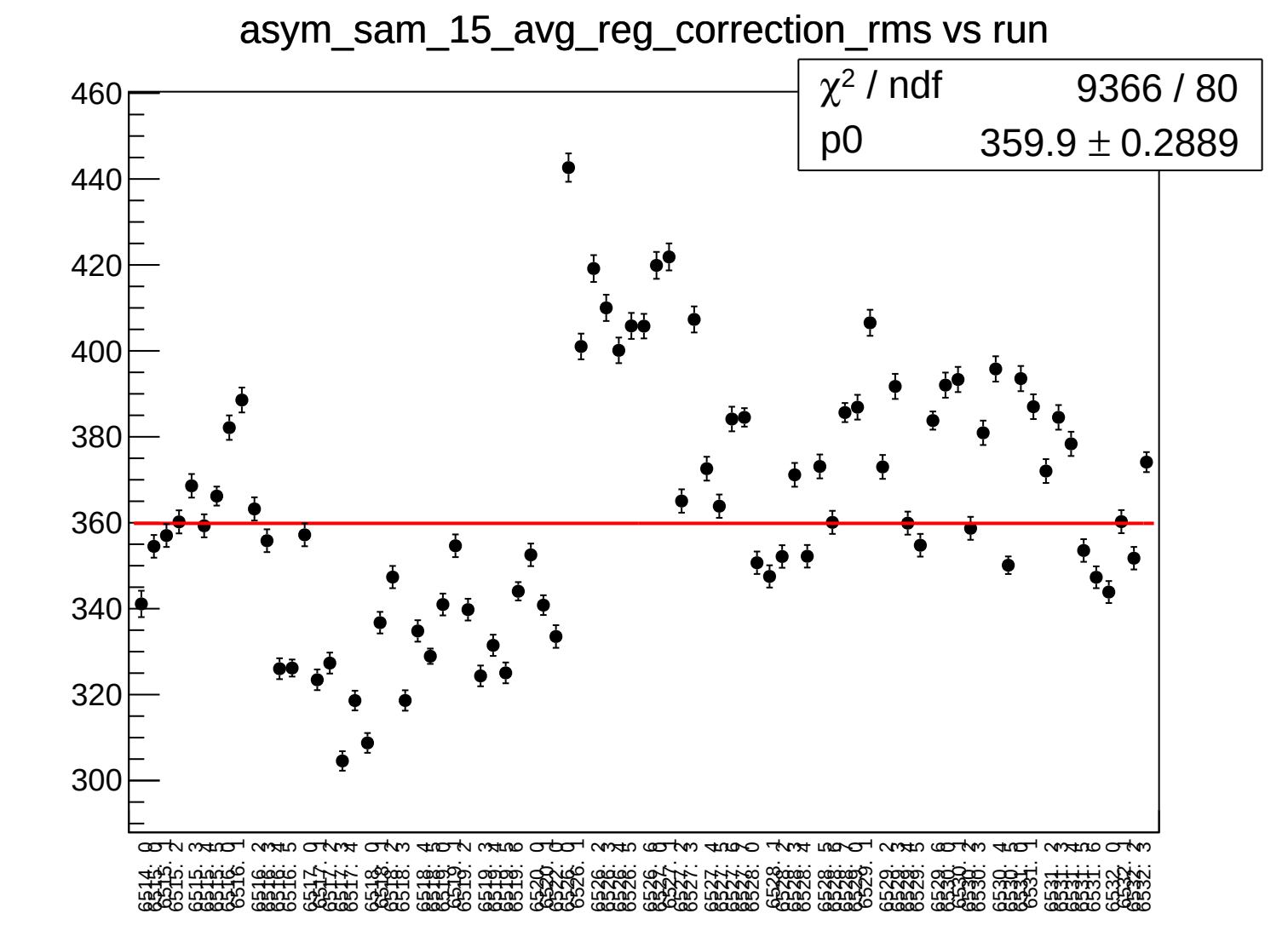

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.012e+05 / 80
p0 4.385e−12 ± 4.73e−15
40
35
30
25
20
15
10
5

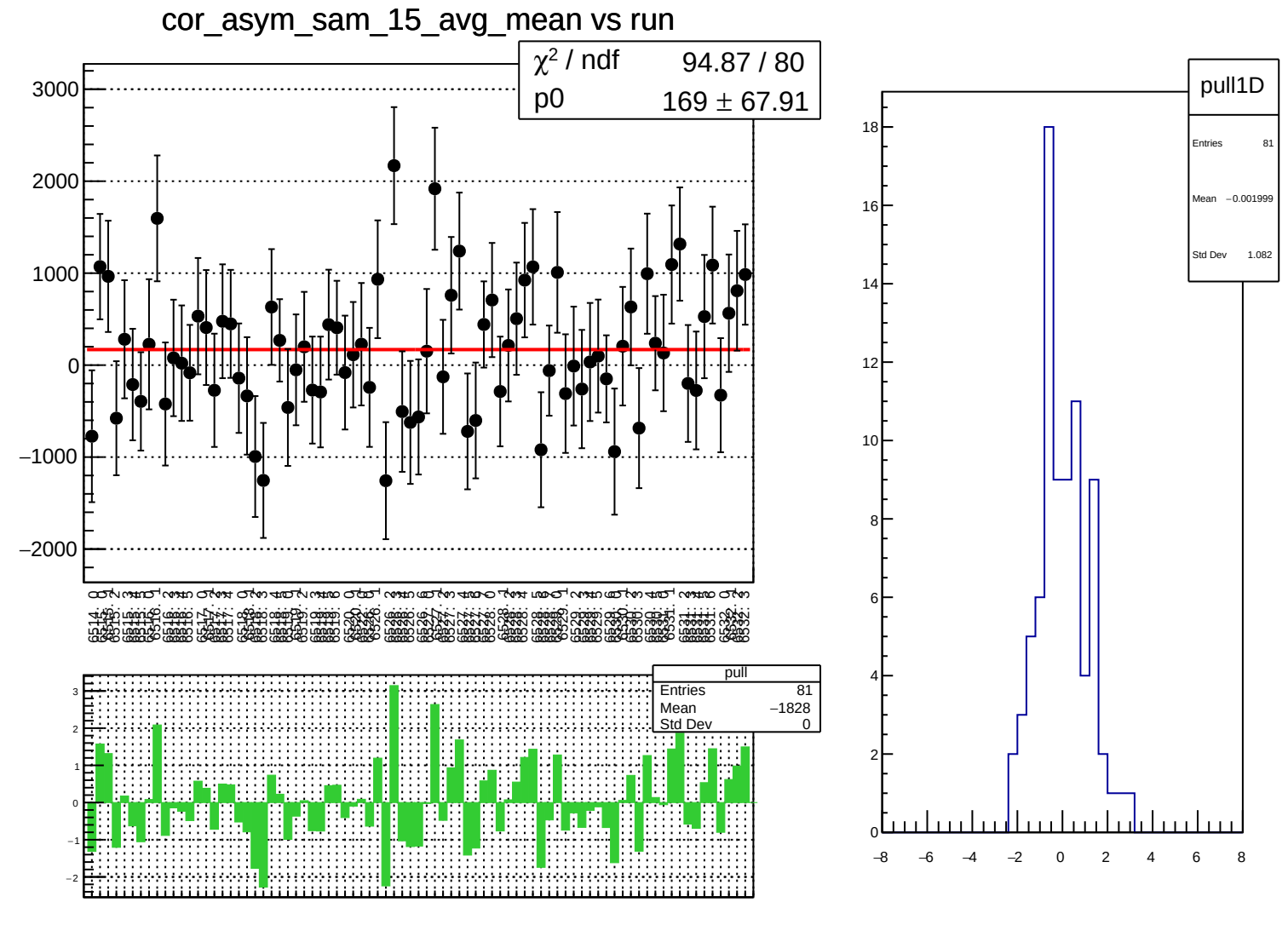

reg_asym_sam_15_avg_mean vs run
χ² / ndf 94.87 / 80
p0 169 ± 67.91
3000
2000
1000
0
−1000
−2000
pull
Entries 81
Mean −1826
Std Dev 0
pull1D
Entries 81
Mean −0.002001
Std Dev 1.082

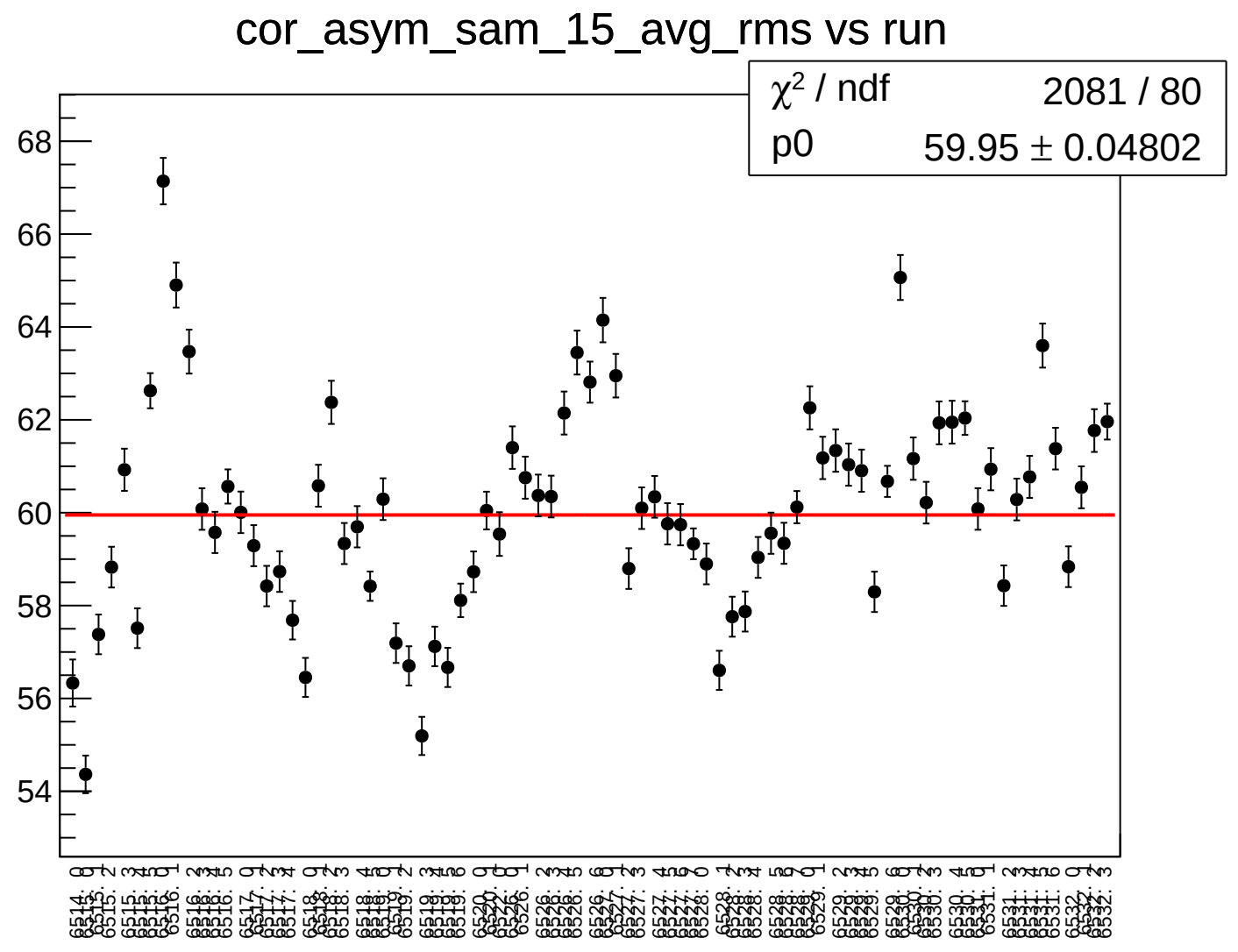

reg_asym_sam_15_avg_rms vs run
χ² / ndf 2081 / 80
p0 59.95 ± 0.04802
68
66
64
62
60
58
56
54

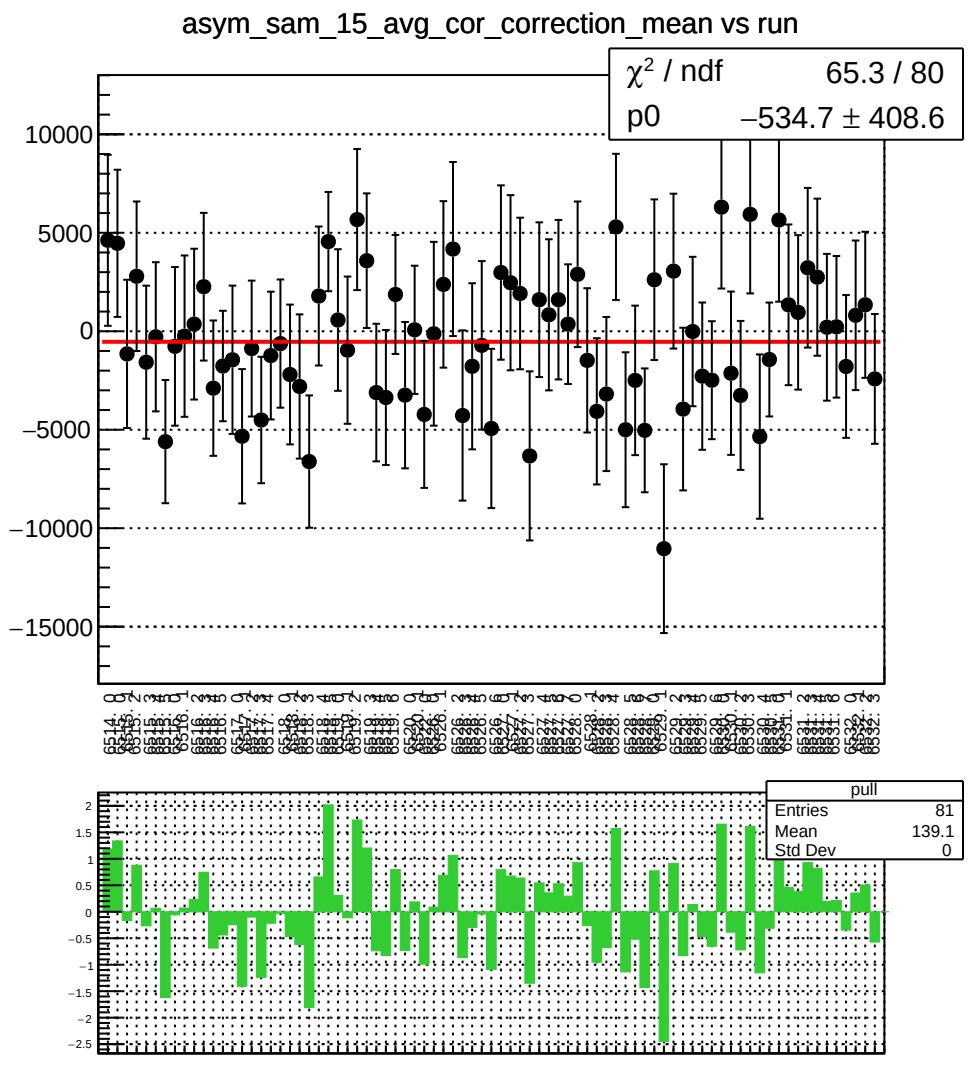

asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 65.3 / 80
p0 −534.7 ± 408.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean 139.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

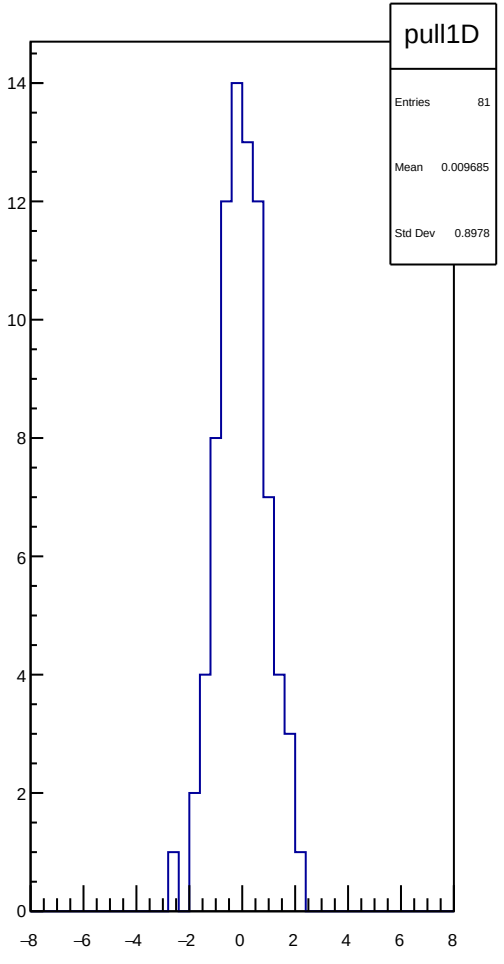

pull1D
Entries 81
Mean 0.009685
Std Dev 0.8978
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

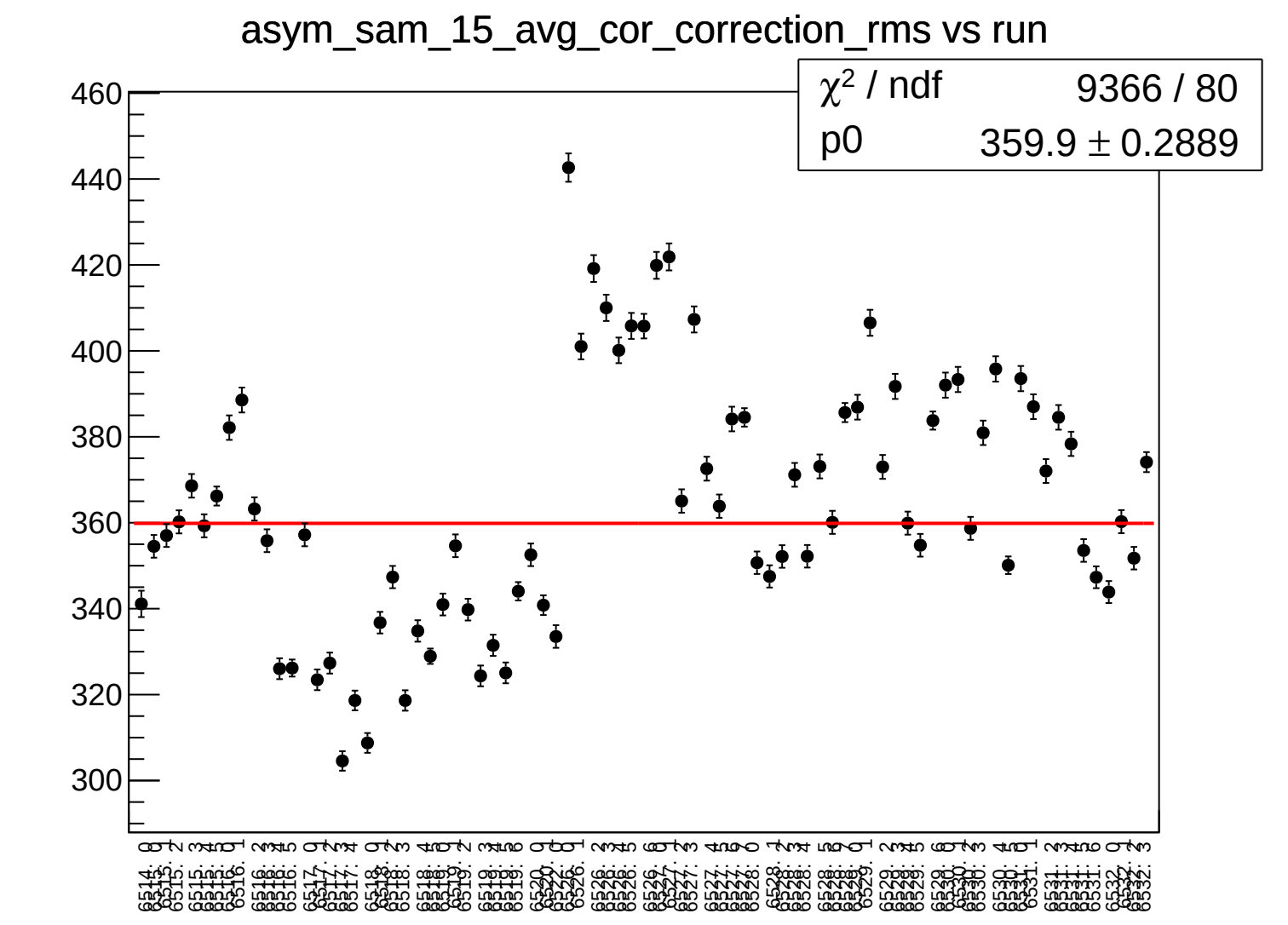

asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 9366 / 80
p0 359.9 ± 0.2889
460
440
420
400
380
360
340
320
300

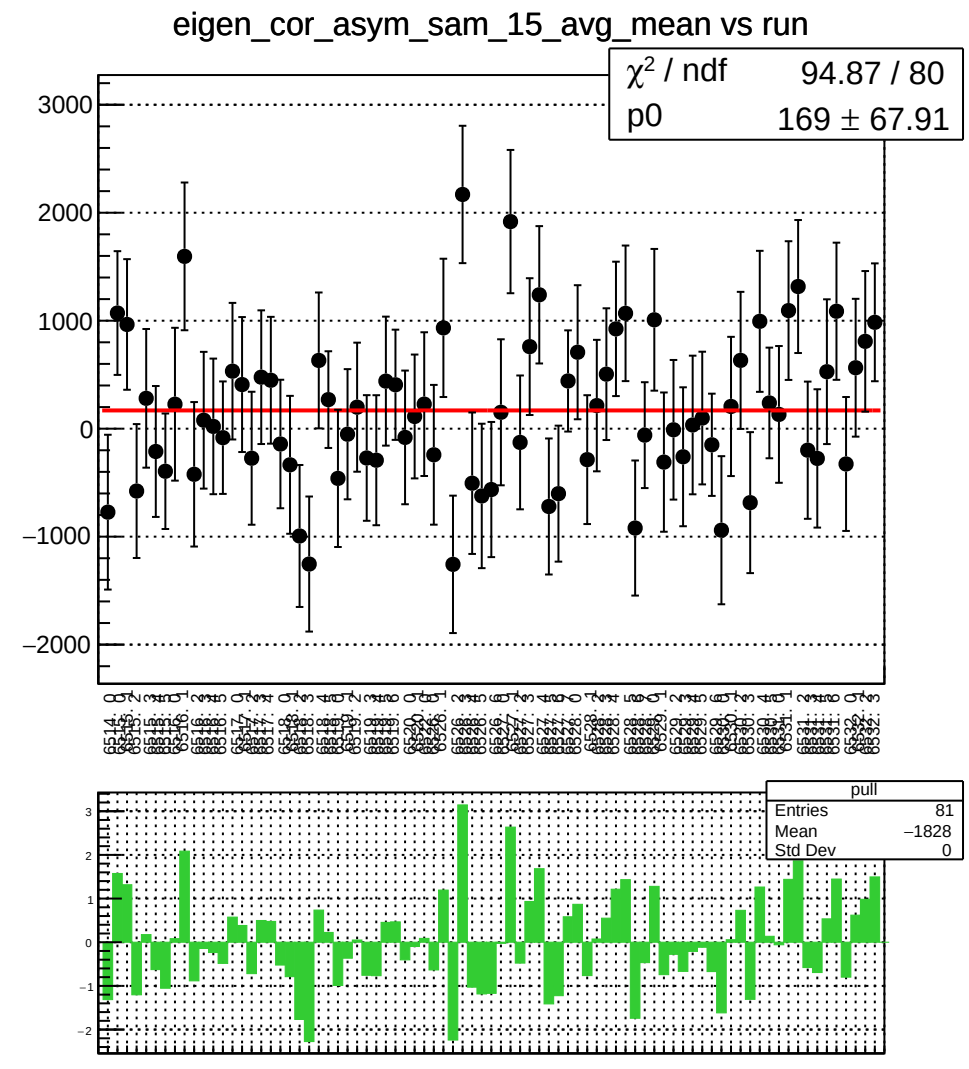

cor_asym_sam_15_avg_mean vs run
χ² / ndf 94.87 / 80
p0 169 ± 67.91
3000
2000
1000
0
−1000
−2000
pull
Entries 81
Mean −1828
Std Dev 0
pull1D
Entries 81
Mean −0.001999
Std Dev 1.082
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

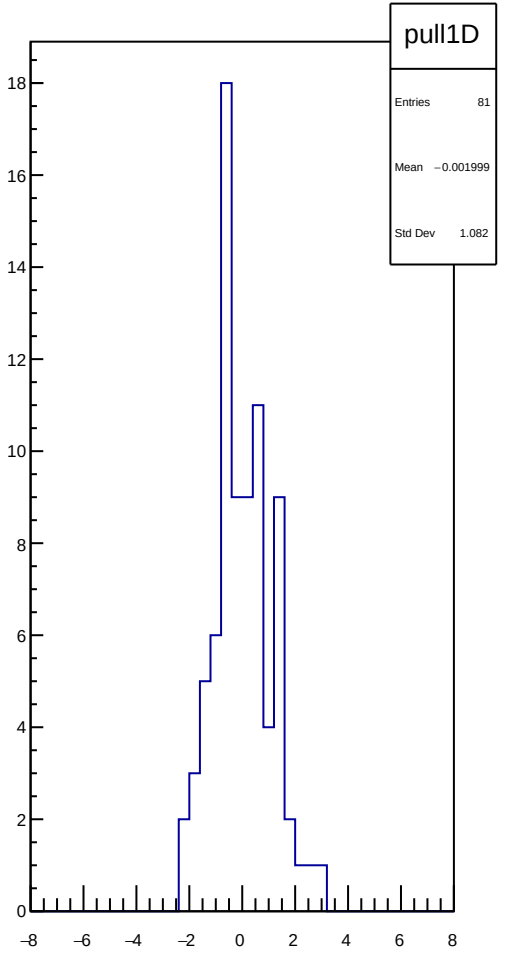

cor_asym_sam_15_avg_rms vs run
χ² / ndf 2081 / 80
p0 59.95 ± 0.04802
68
66
64
62
60
58
56
54

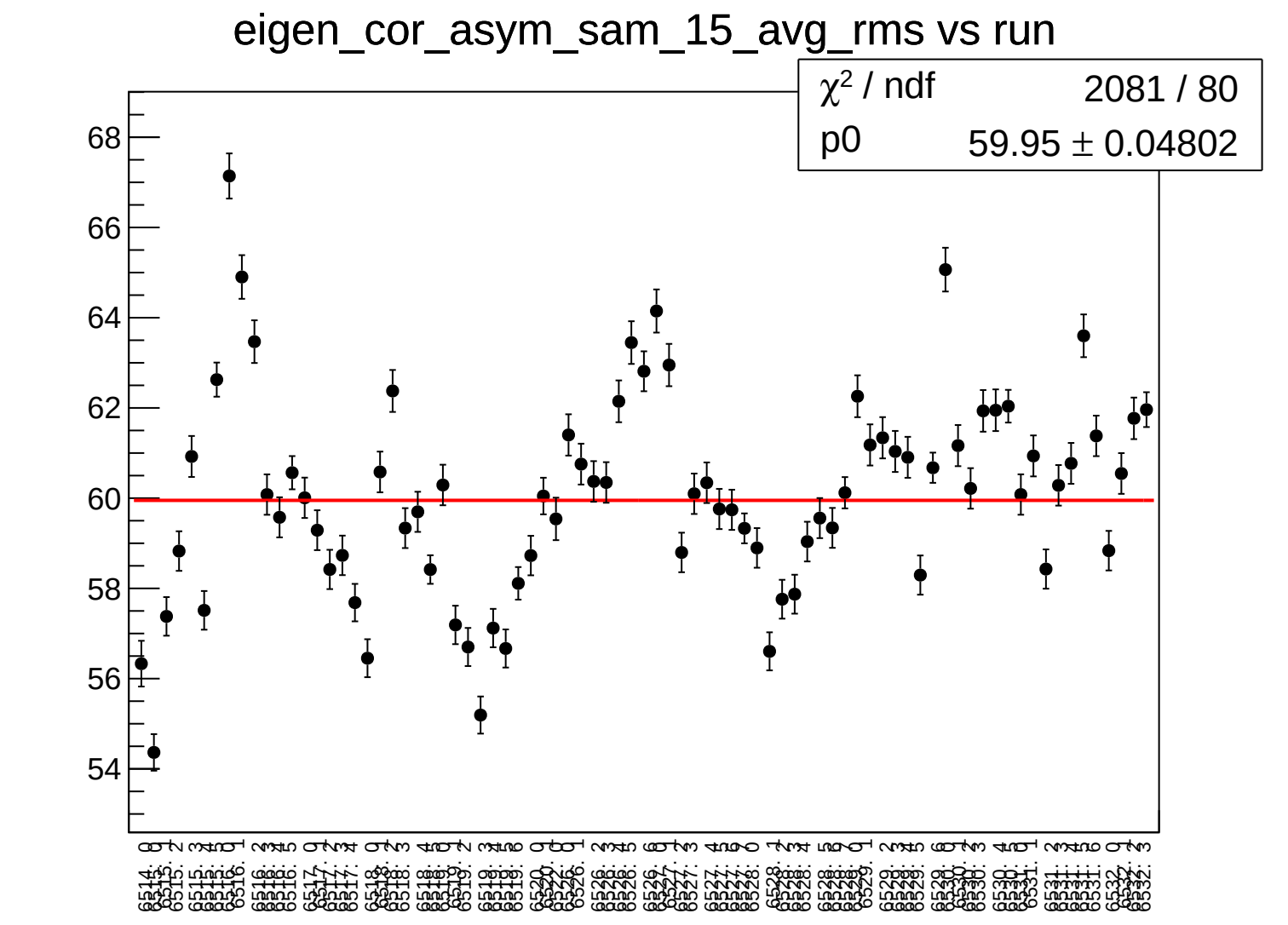

asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 65.3 / 80
p0 −534.7 ± 408.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean 139.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

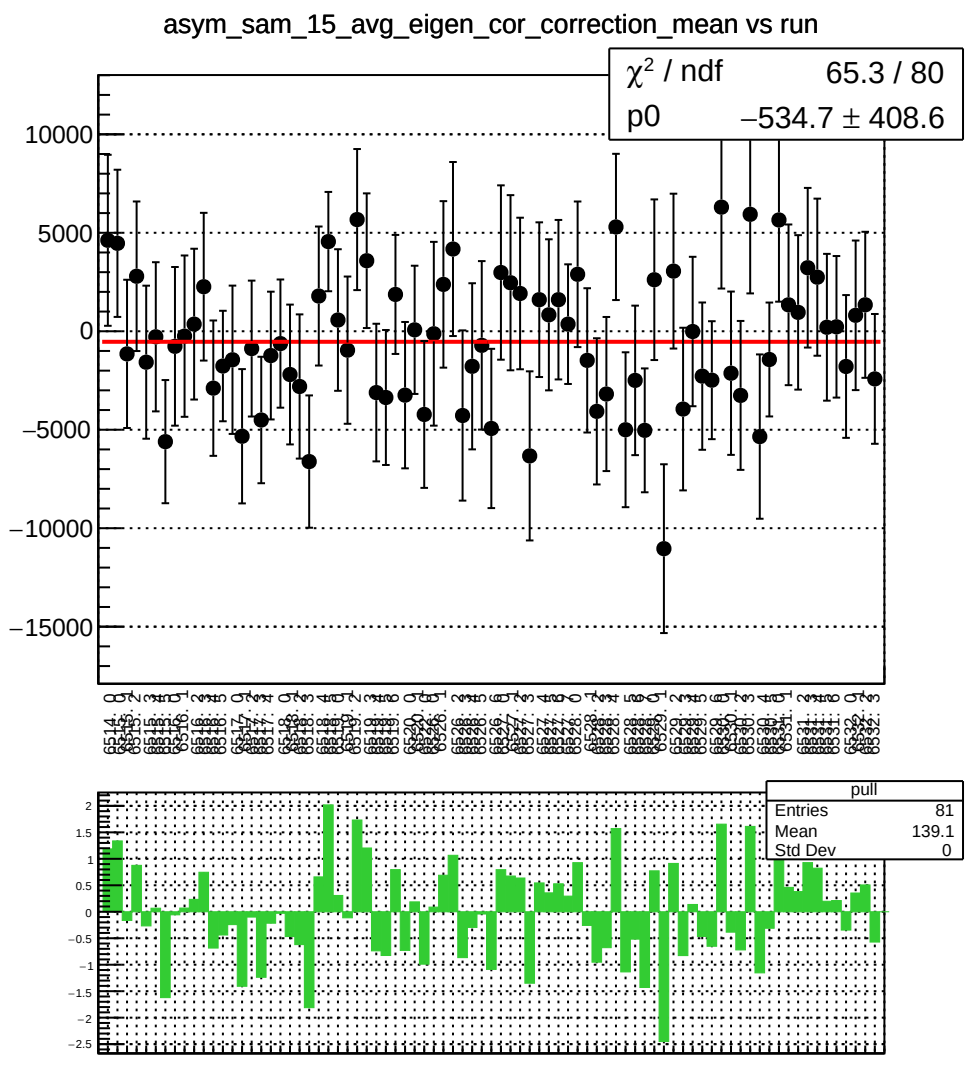

pull1D
Entries 81
Mean 0.009685
Std Dev 0.8978
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

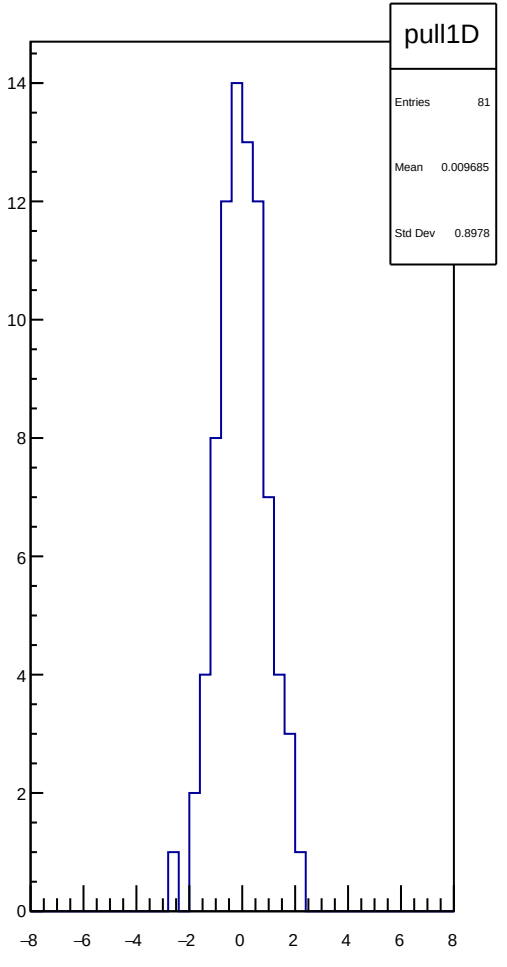

asym_sam_15_avg_cor_correction_rms vs run
χ² / ndf 9366 / 80
p0 359.9 ± 0.2889
460
440
420
400
380
360
340
320
300

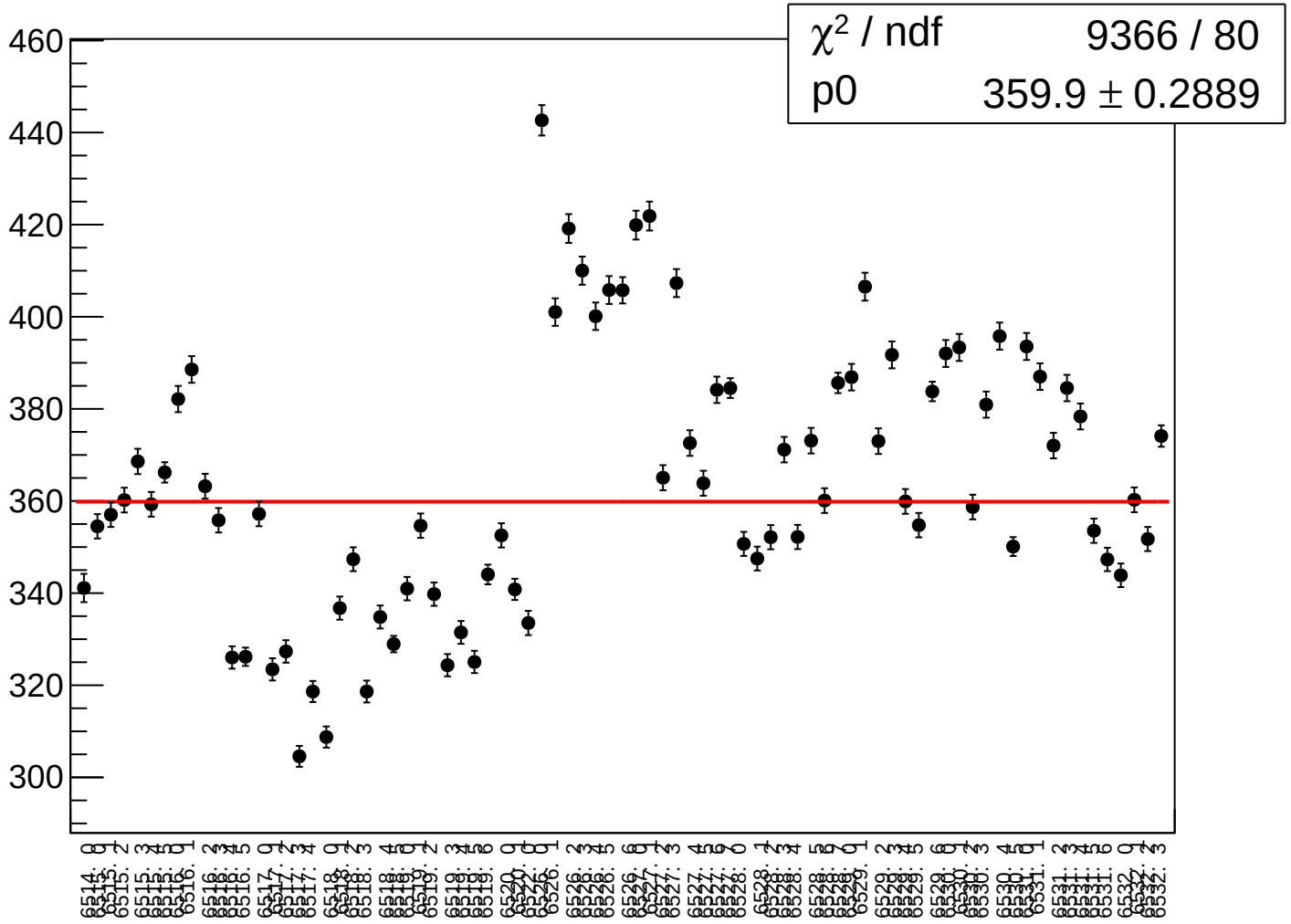

eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 94.87 / 80
p0 169 ± 67.91
3000
2000
1000
0
−1000
−2000
pull
Entries 81
Mean −1828
Std Dev 0
3
2
1
0
−1
−2

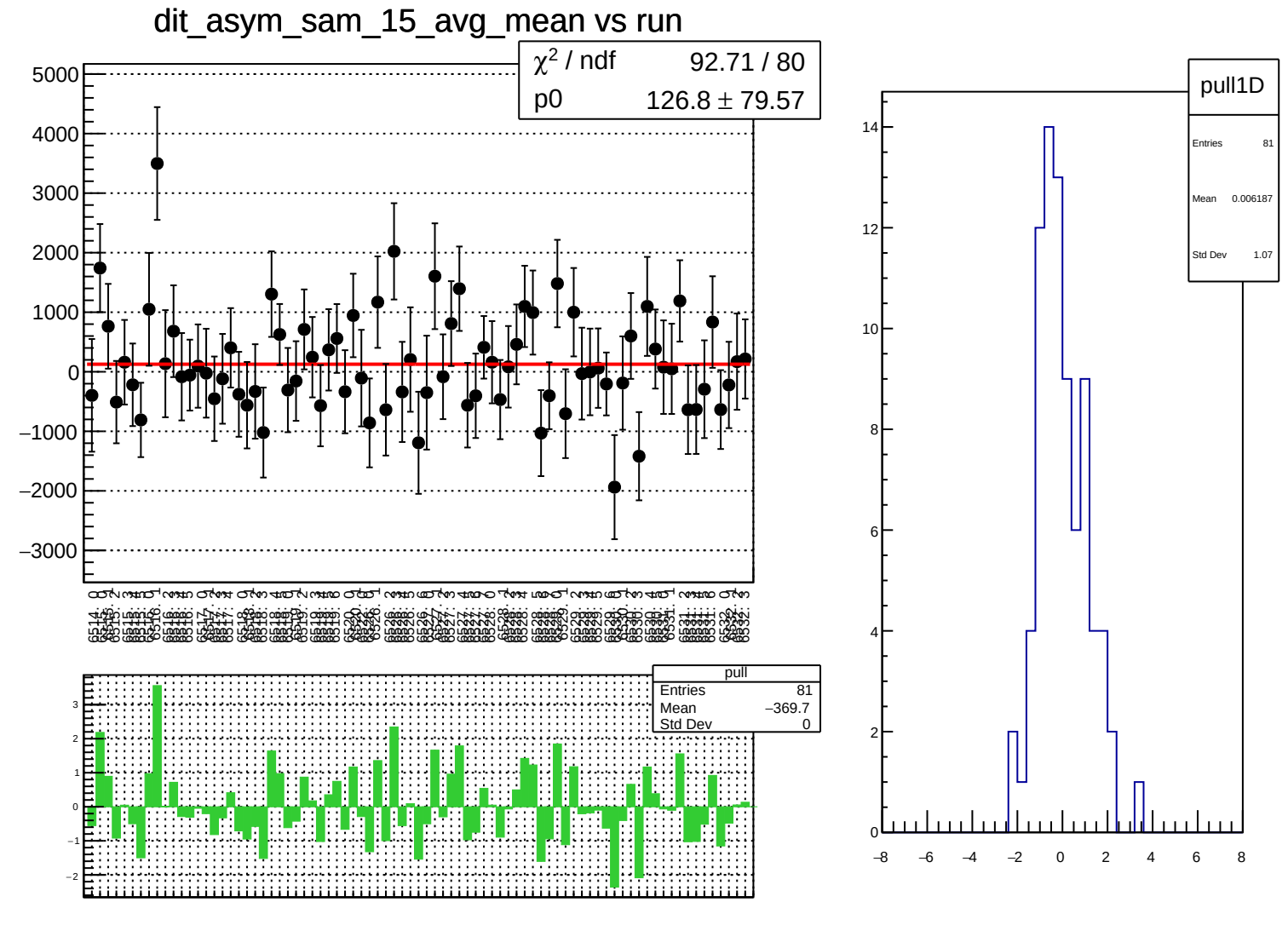

pull1D
Entries 81
Mean −0.001999
Std Dev 1.082
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

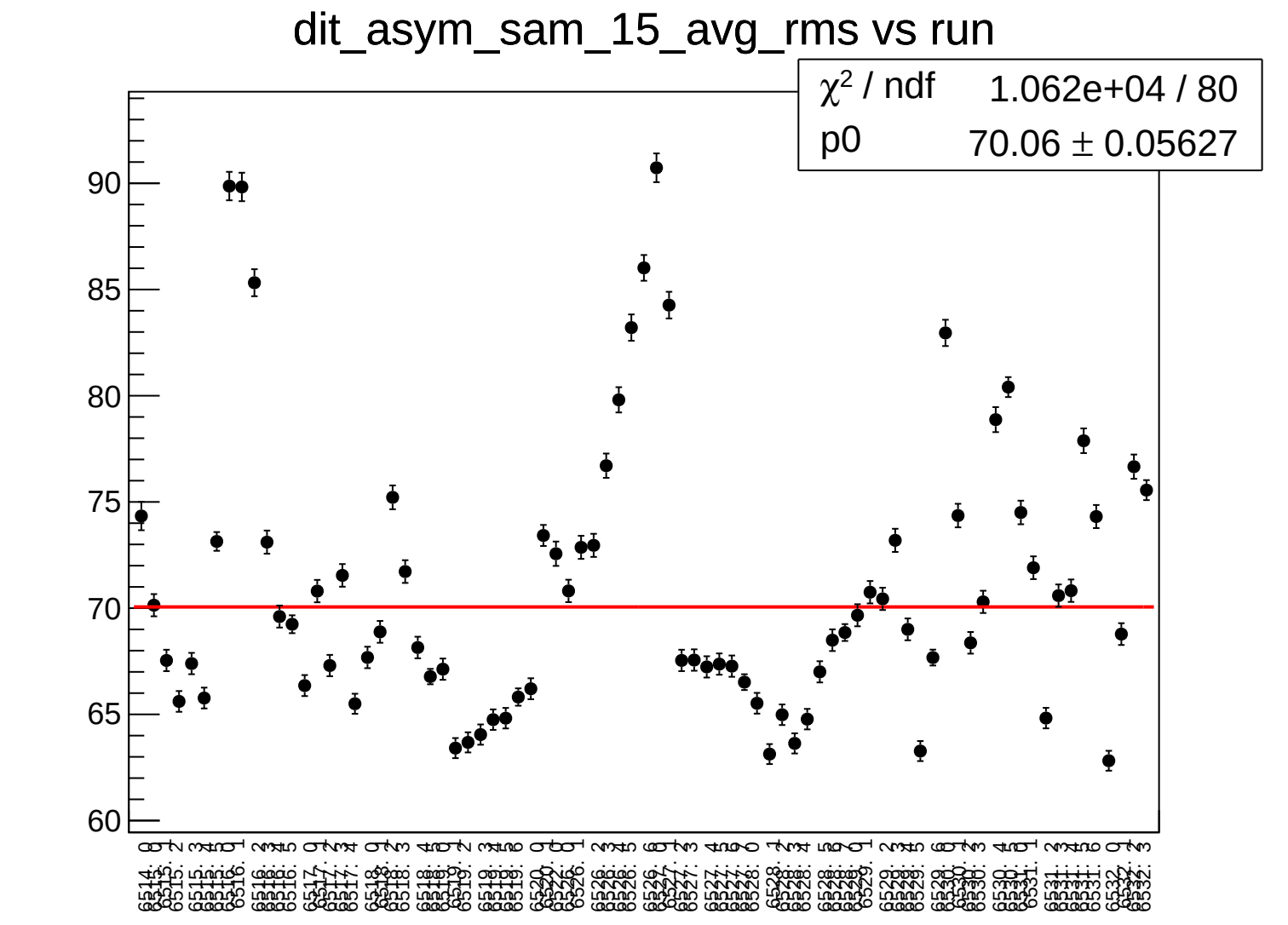

eigen_cor_asym_sam_15_avg_rms vs run
χ² / ndf 2081 / 80
p0 59.95 ± 0.04802
68
66
64
62
60
58
56
54

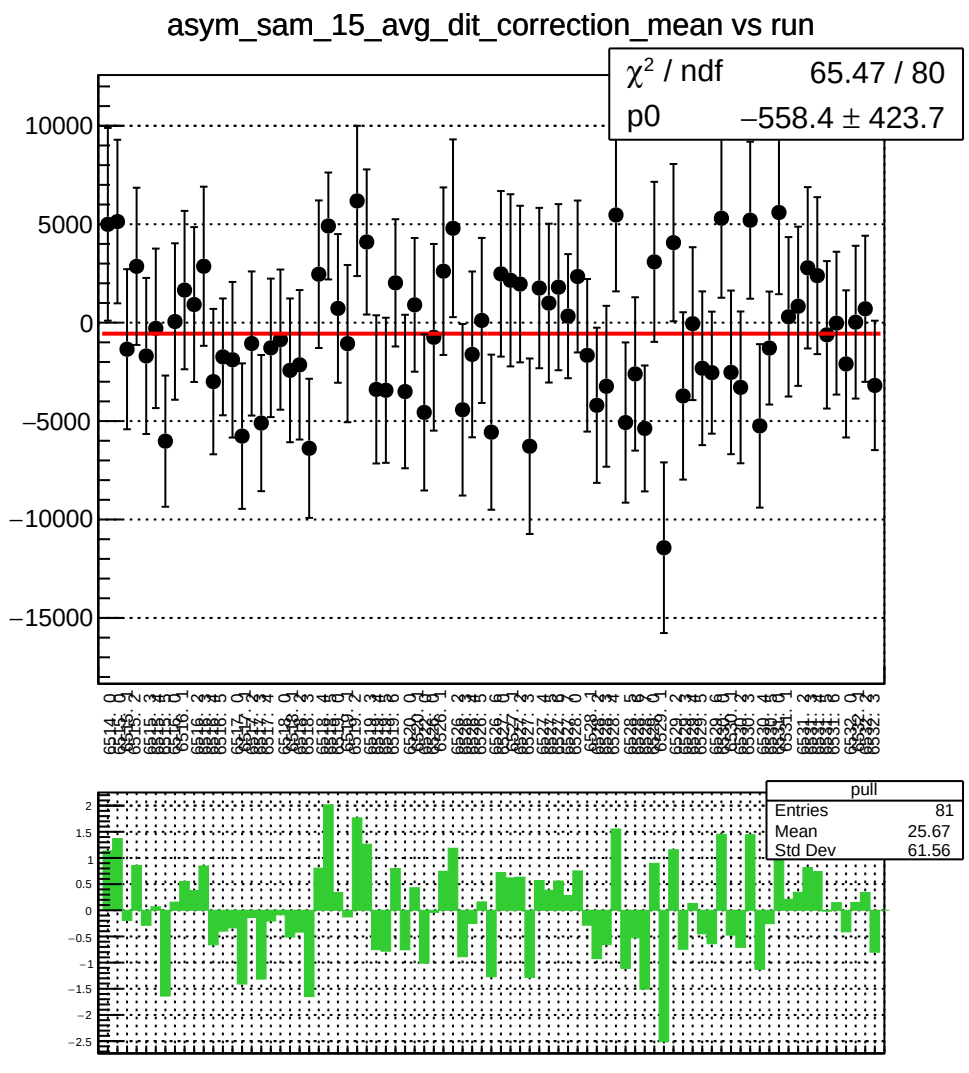

asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 65.3 / 80
p0 −534.7 ± 408.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean 139.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

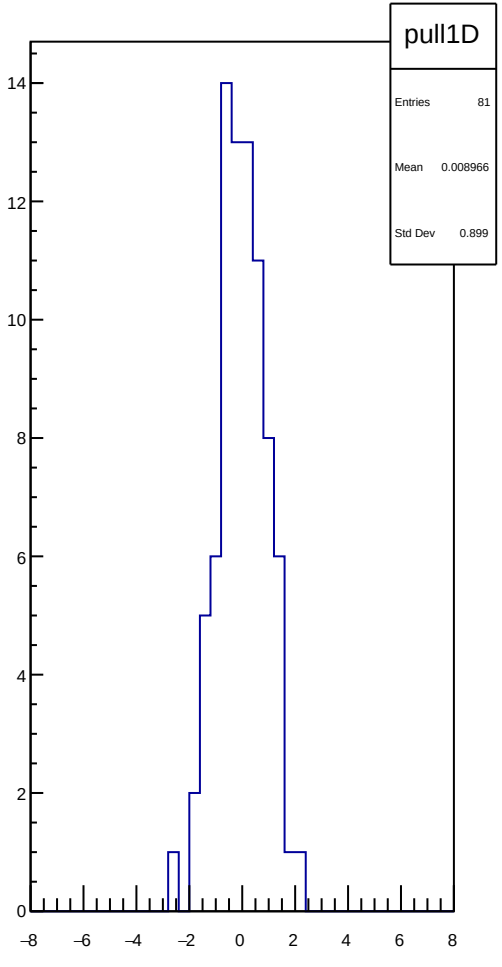

pull1D
Entries 81
Mean 0.009685
Std Dev 0.8978
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

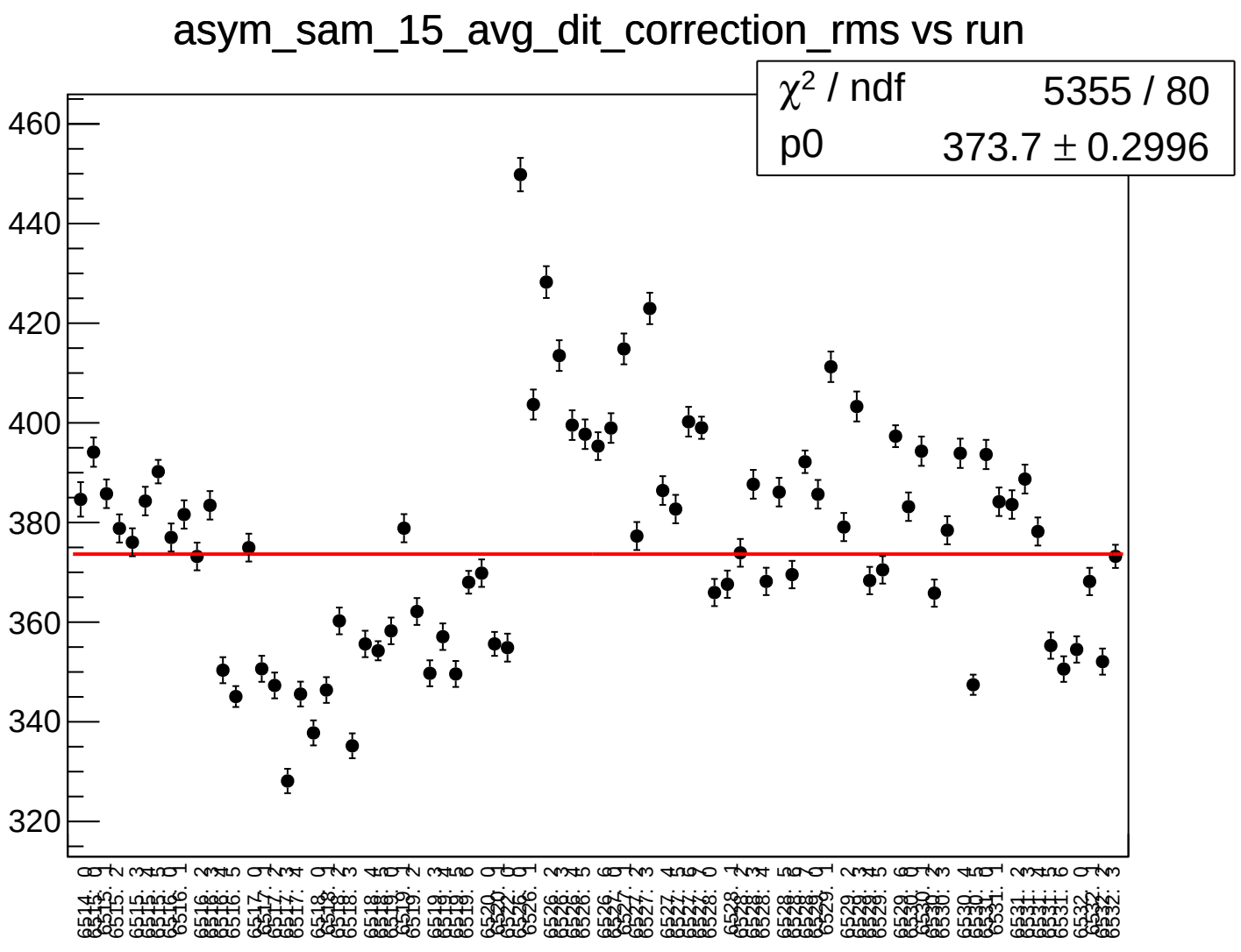

asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 9366 / 80
p0 359.9 ± 0.2889
460
440
420
400
380
360
340
320
300

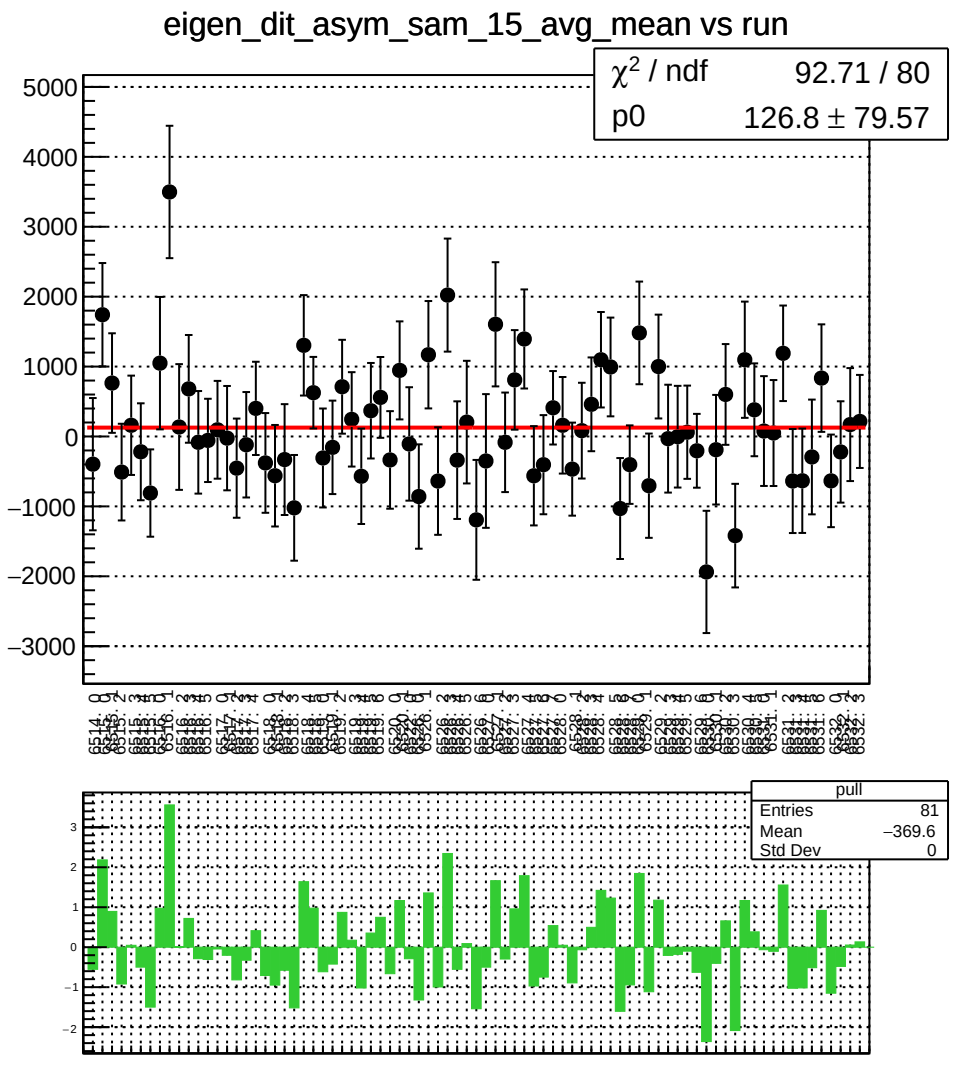

dit_asym_sam_15_avg_mean vs run
χ^2 / ndf 92.71 / 80
p0 126.8 ± 79.57
pull
Entries 81
Mean −369.7
Std Dev 0
pull1D
Entries 81
Mean 0.006187
Std Dev 1.07

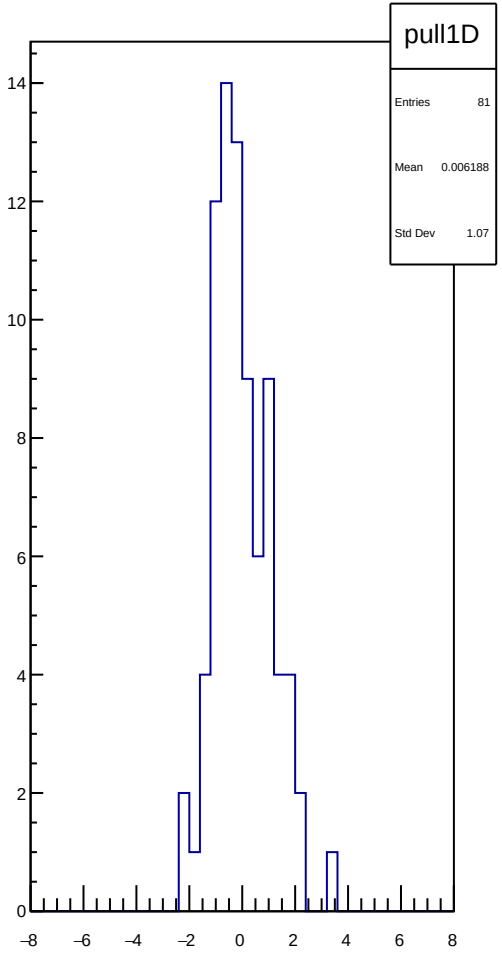

dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 1.062e+04 / 80
p0 70.06 ± 0.05627
90
85
80
75
70
65
60

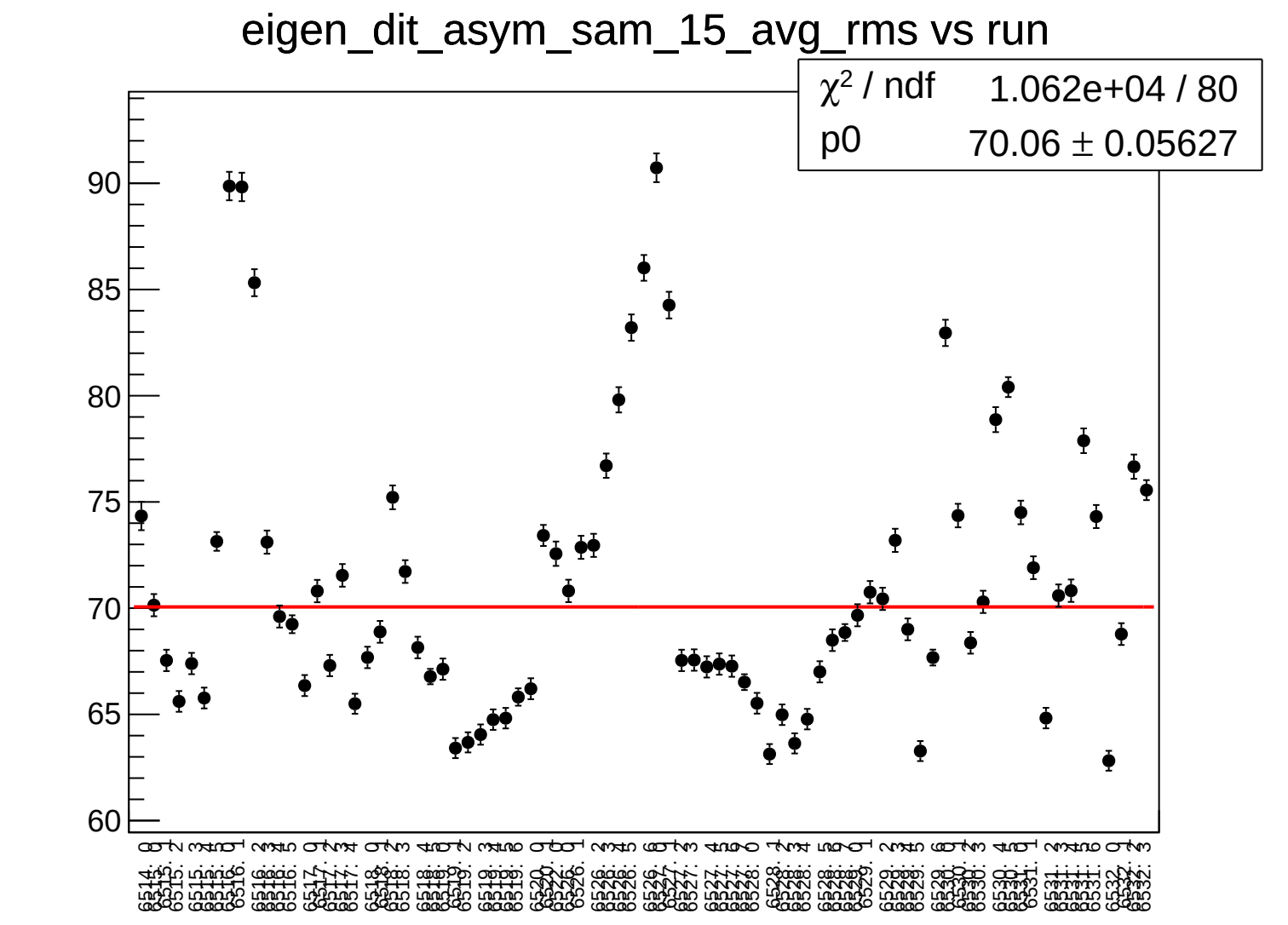

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 65.47 / 80
p0 −558.4 ± 423.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean 25.67
Std Dev 61.56
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

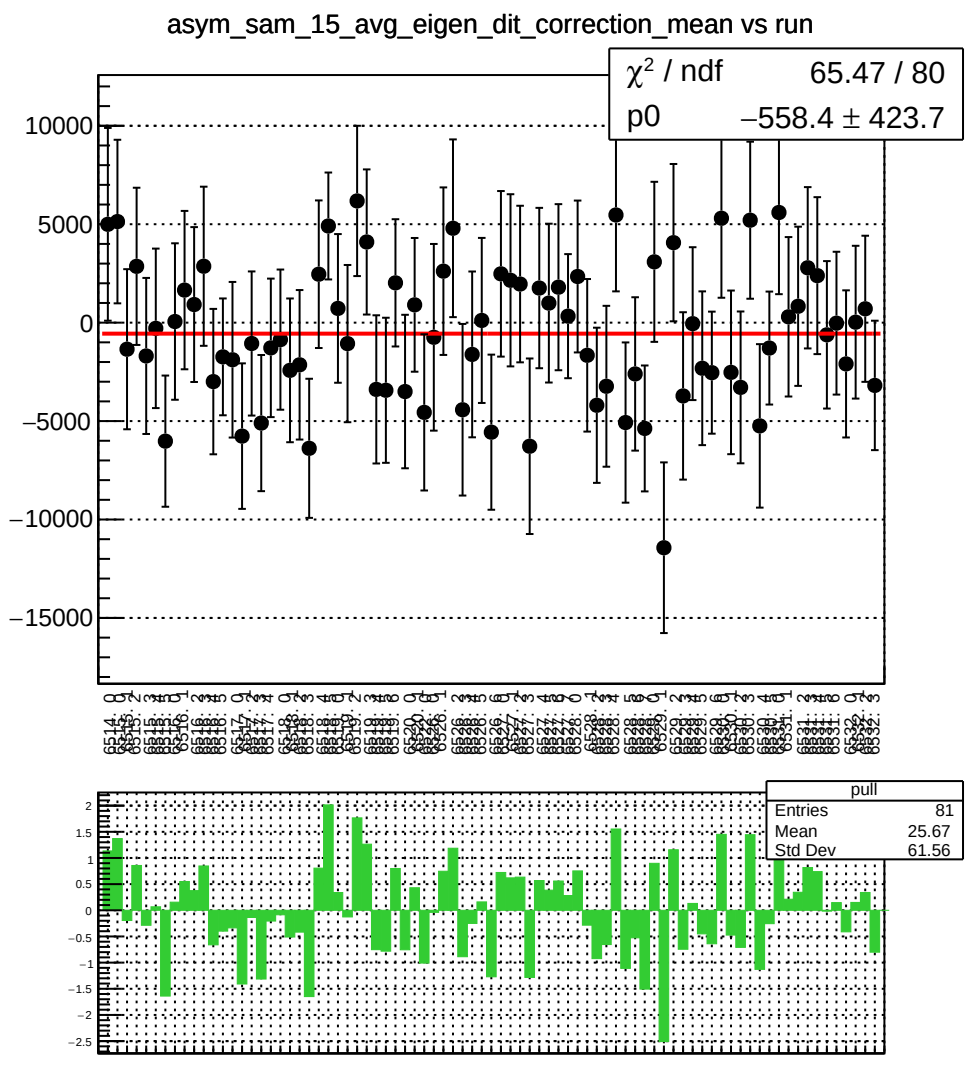

pull1D
Entries 81
Mean 0.008966
Std Dev 0.899
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

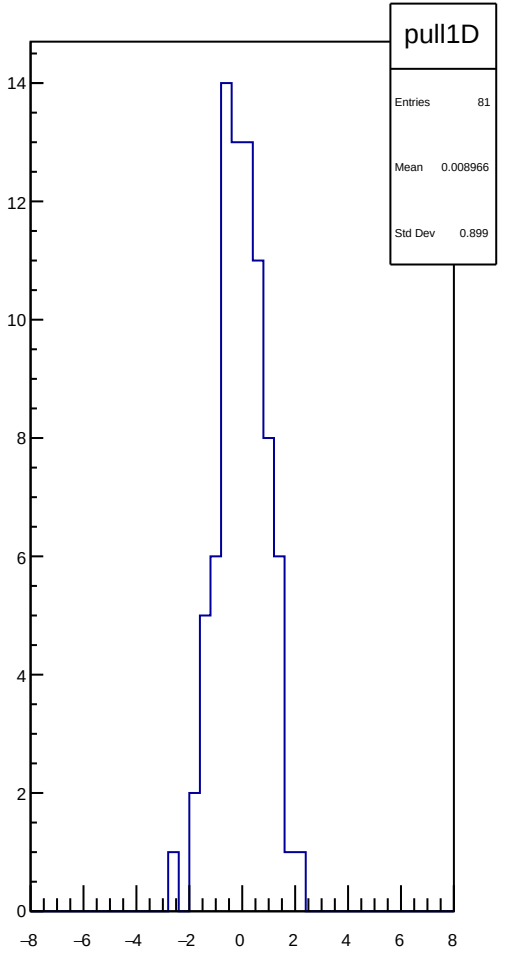

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 5355 / 80
p0 373.7 ± 0.2996
460
440
420
400
380
360
340
320

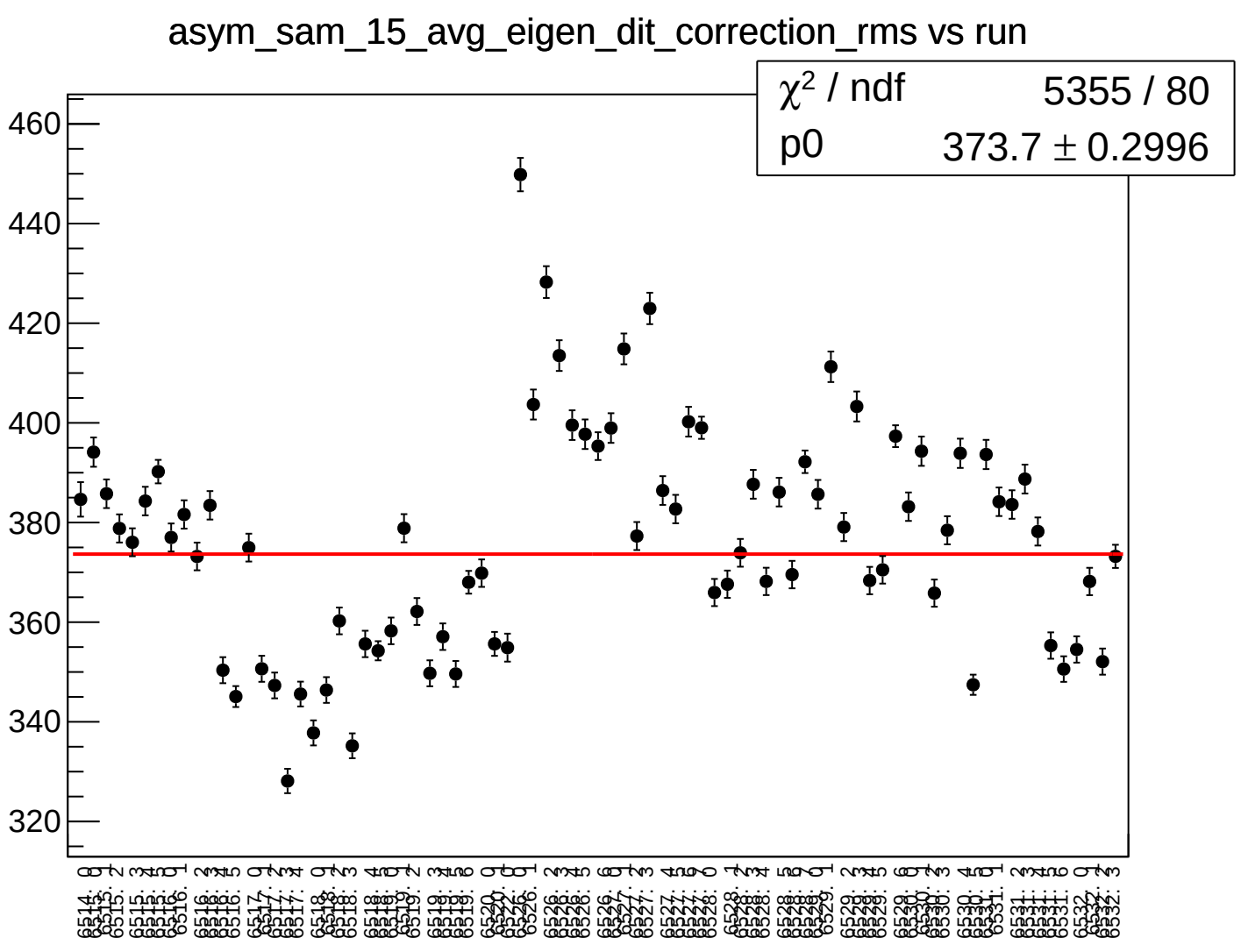

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 92.71 / 80
p0 126.8 ± 79.57
pull
Entries 81
Mean −369.6
Std Dev 0

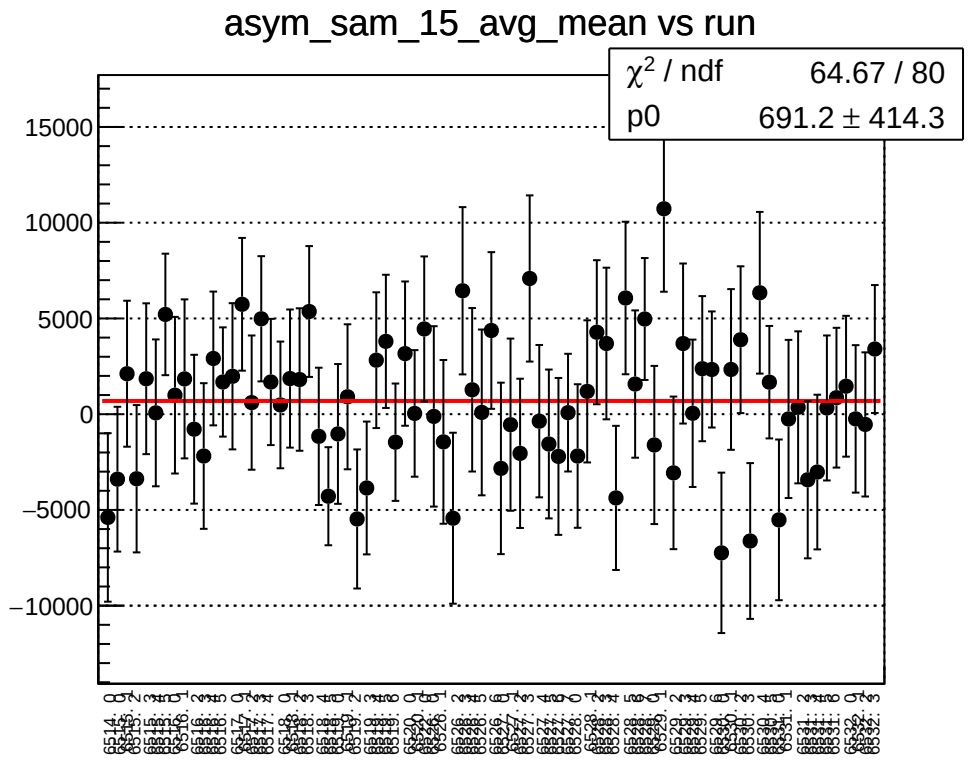

pull1D
Entries 81
Mean 0.006188
Std Dev 1.07

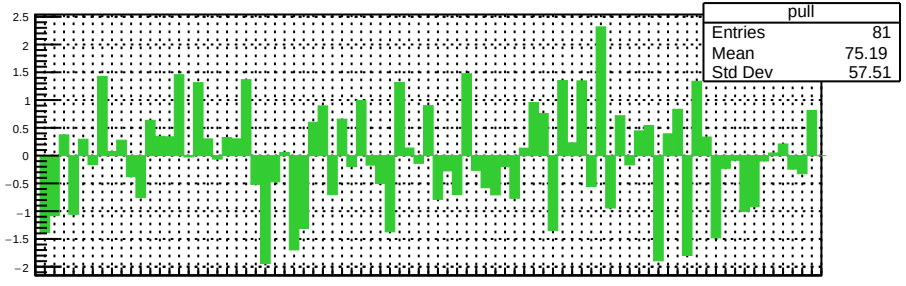

eigen_dit_asym_sam_15_avg_rms vs run
χ² / ndf 1.062e+04 / 80
p0 70.06 ± 0.05627
90
85
80
75
70
65
60

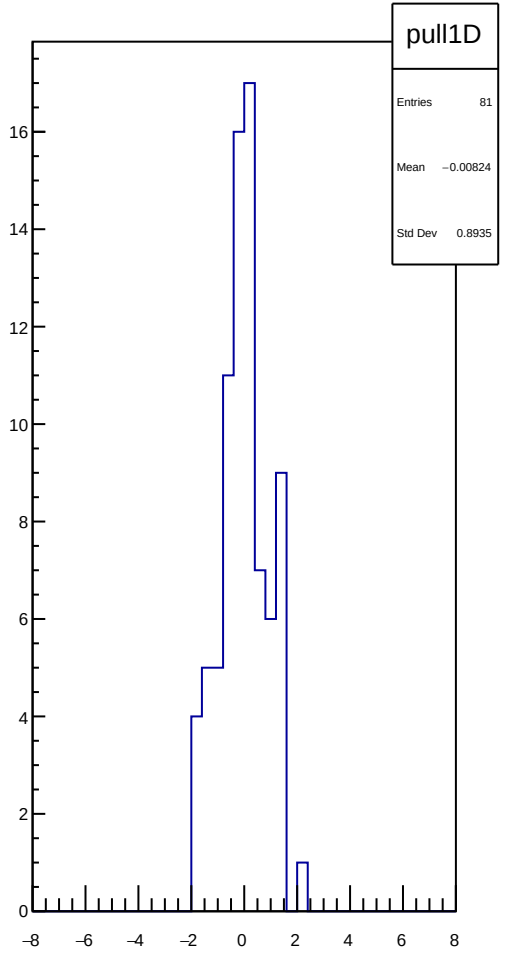

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 65.47 / 80
p0 −558.4 ± 423.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean 25.67
Std Dev 61.56
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

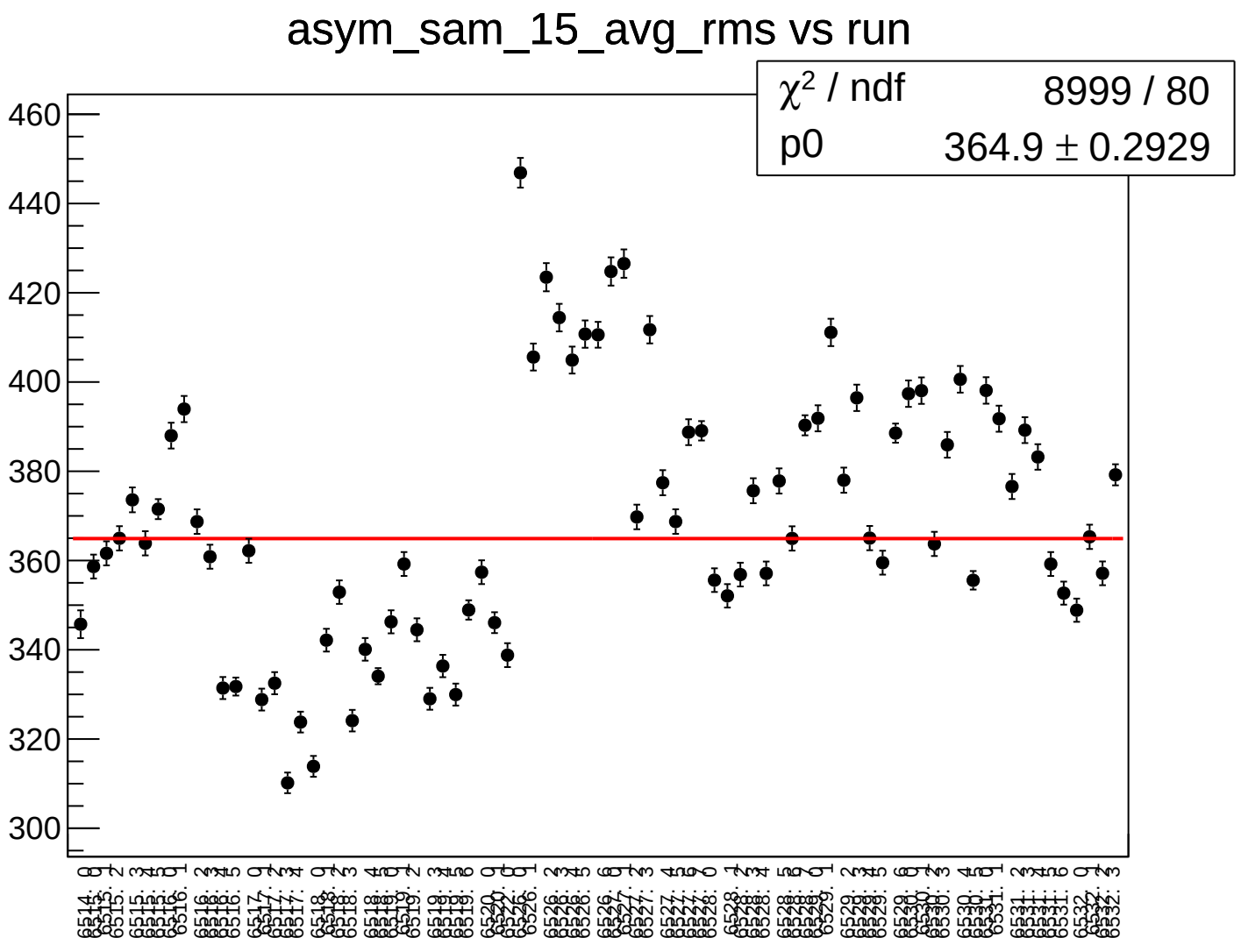

pull1D
Entries 81
Mean 0.008966
Std Dev 0.899
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

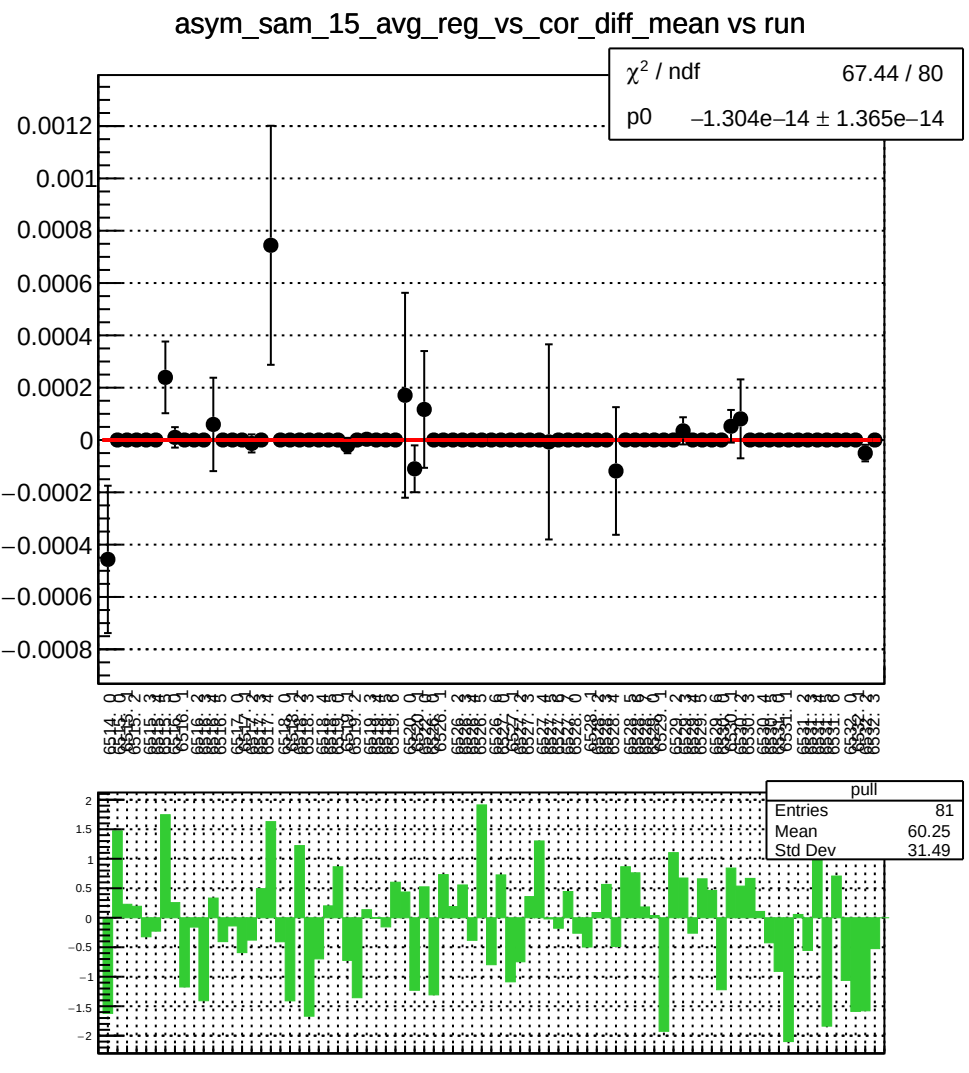

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 5355 / 80
p0 373.7 ± 0.2996
460
440
420
400
380
360
340
320

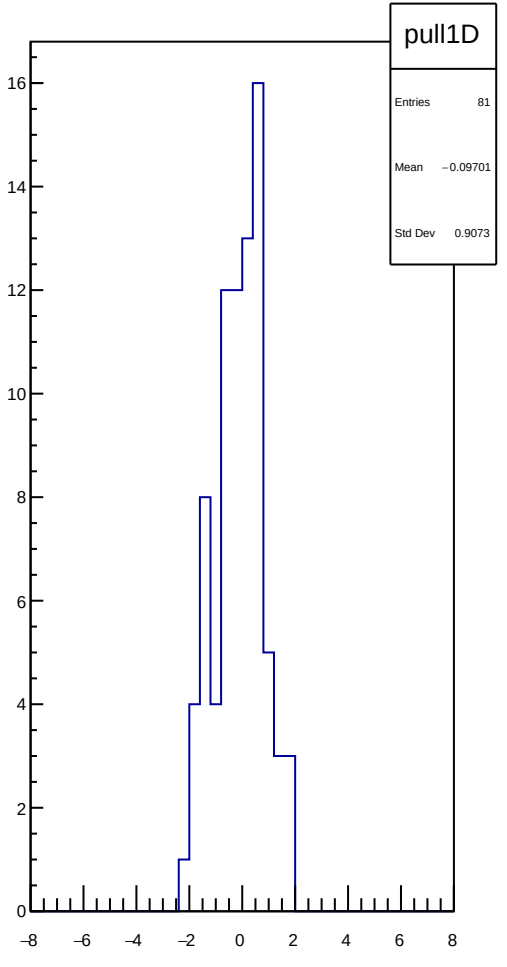

asym_sam_15_avg_mean vs run
χ² / ndf 64.67 / 80
p0 691.2 ± 414.3
15000
10000
5000
0
−5000
−10000

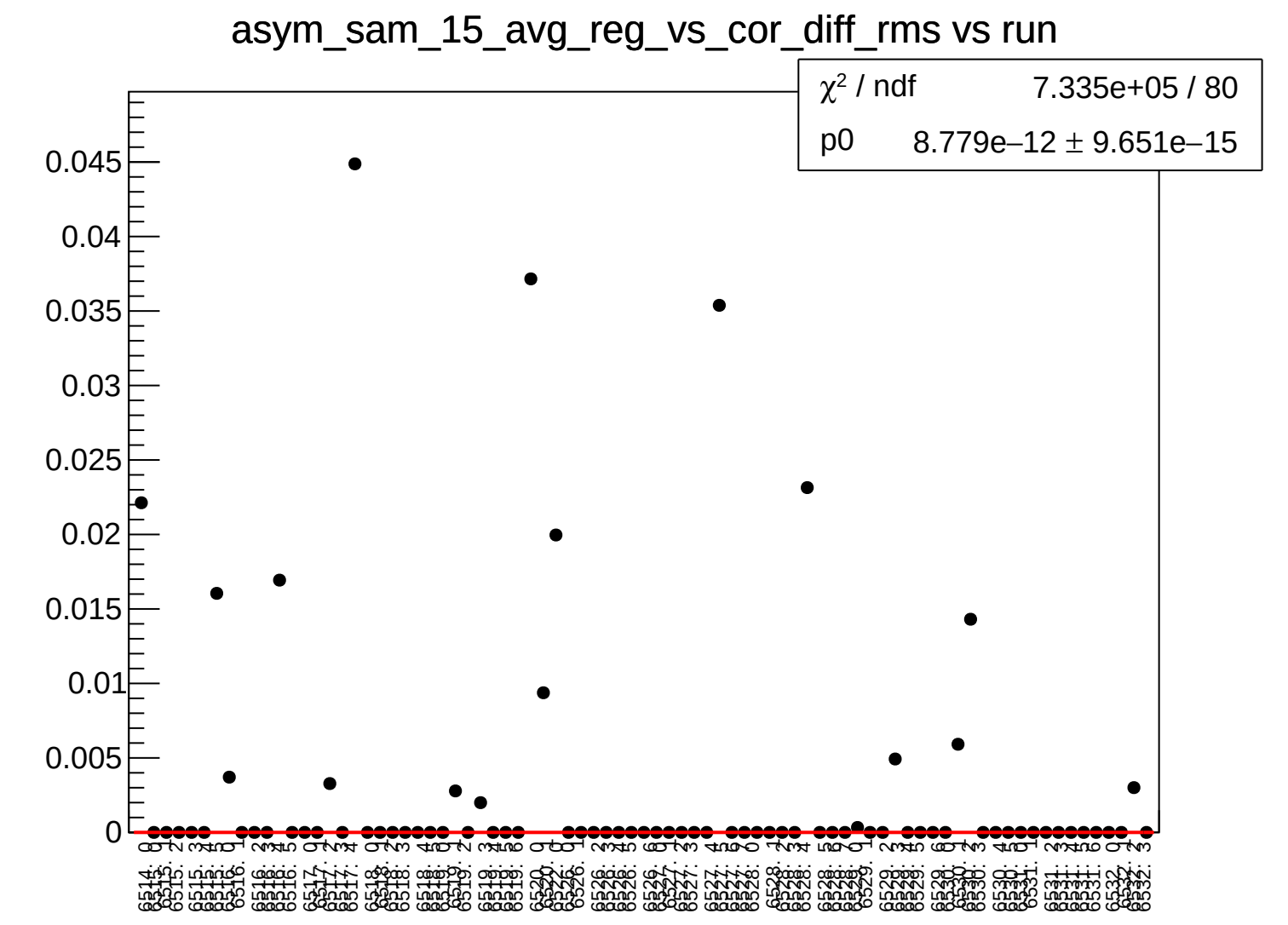

pull
Entries 81
Mean 75.19
Std Dev 57.51
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

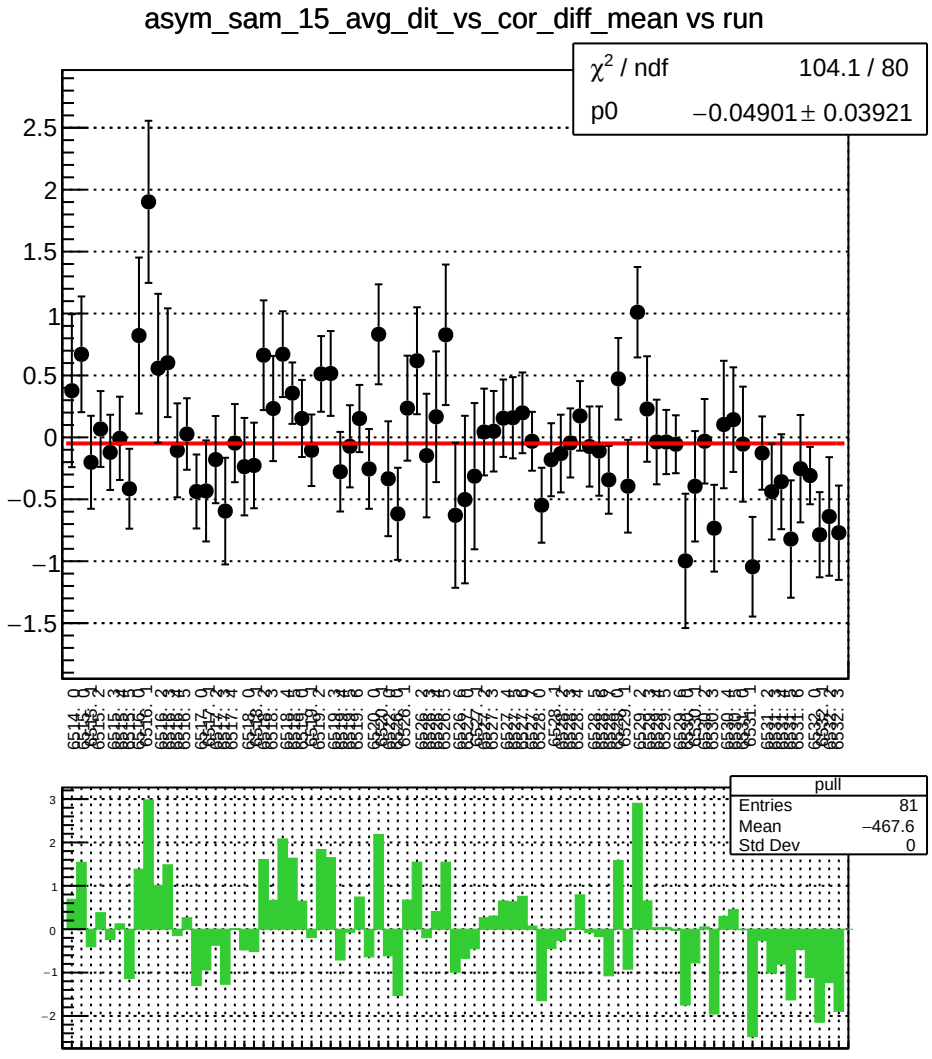

pull1D
Entries 81
Mean −0.00824
Std Dev 0.8935
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

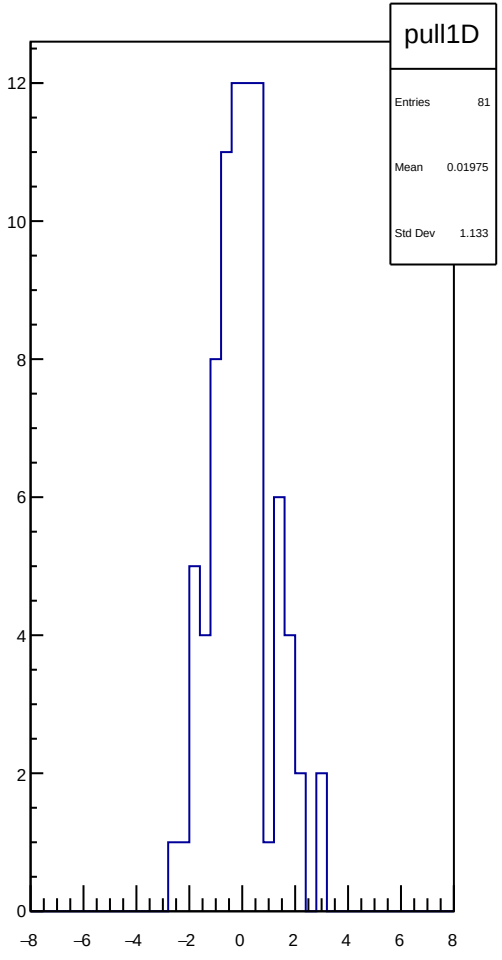

asym_sam_15_avg_rms vs run
χ² / ndf 8999 / 80
p0 364.9 ± 0.2929
460
440
420
400
380
360
340
320
300

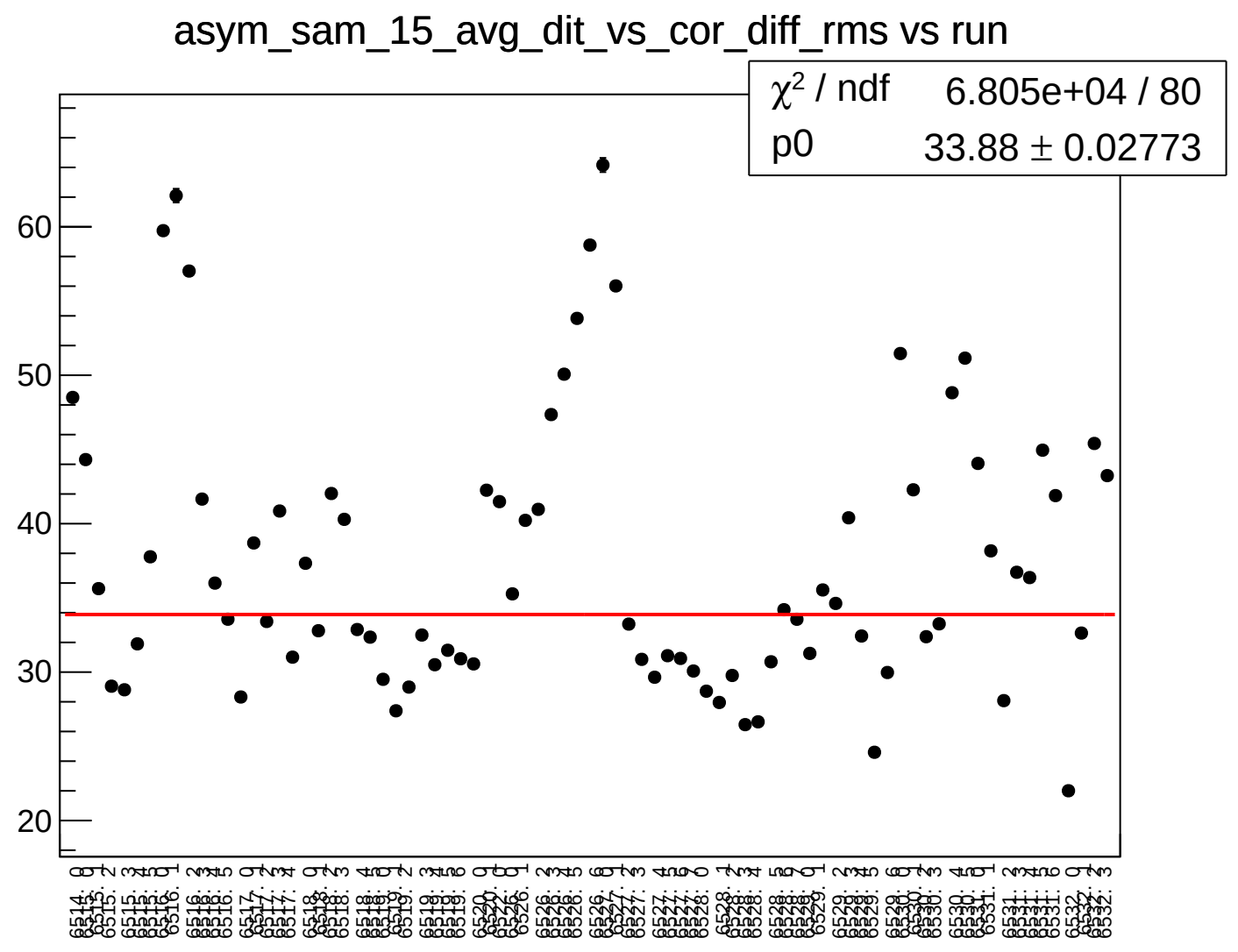

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 67.44 / 80
p0 −1.304e−14 ± 1.365e−14
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 81
Mean 60.25
Std Dev 31.49
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

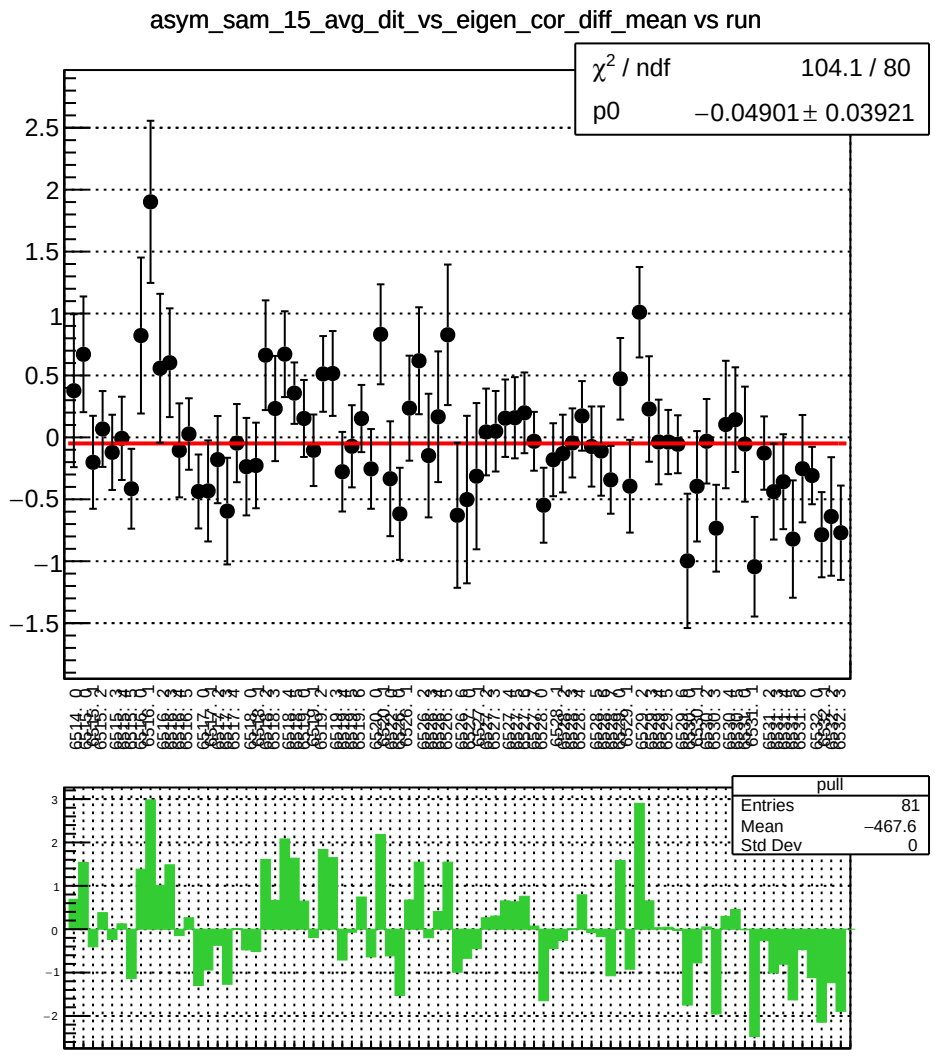

pull1D
Entries 81
Mean −0.09701
Std Dev 0.9073
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

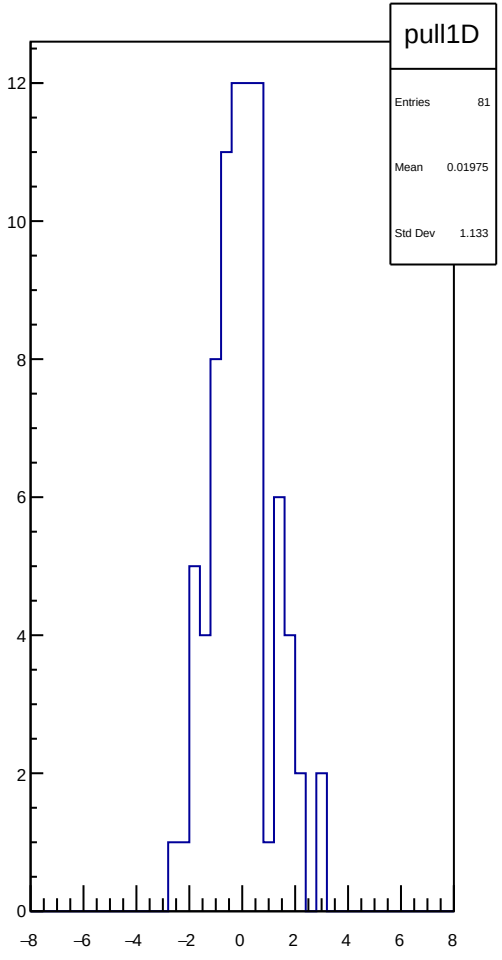

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 7.335e+05 / 80
p0 8.779e−12 ± 9.651e−15
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

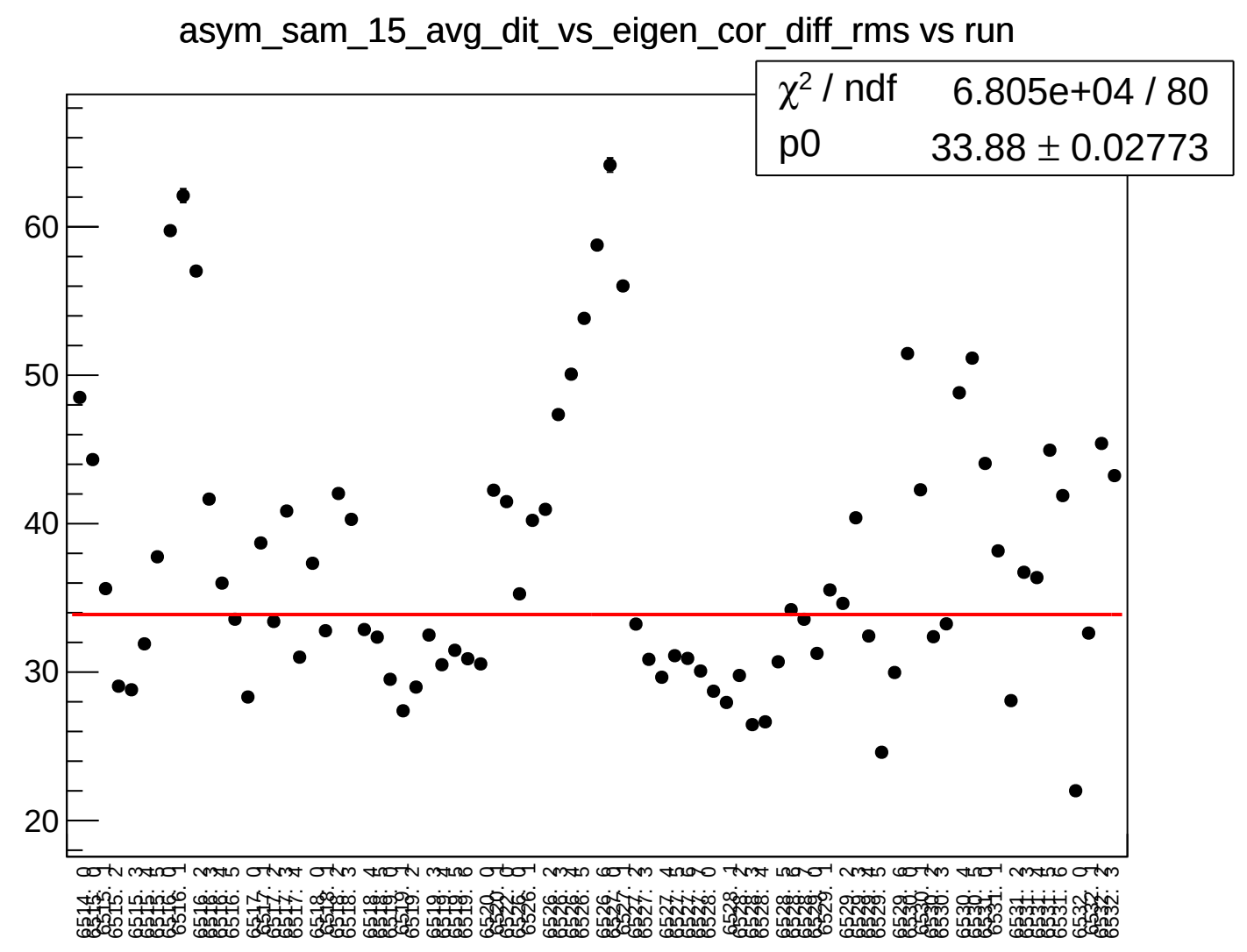

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 104.1 / 80
p0 −0.04901 ± 0.03921
pull
Entries 81
Mean −467.6
Std Dev 0

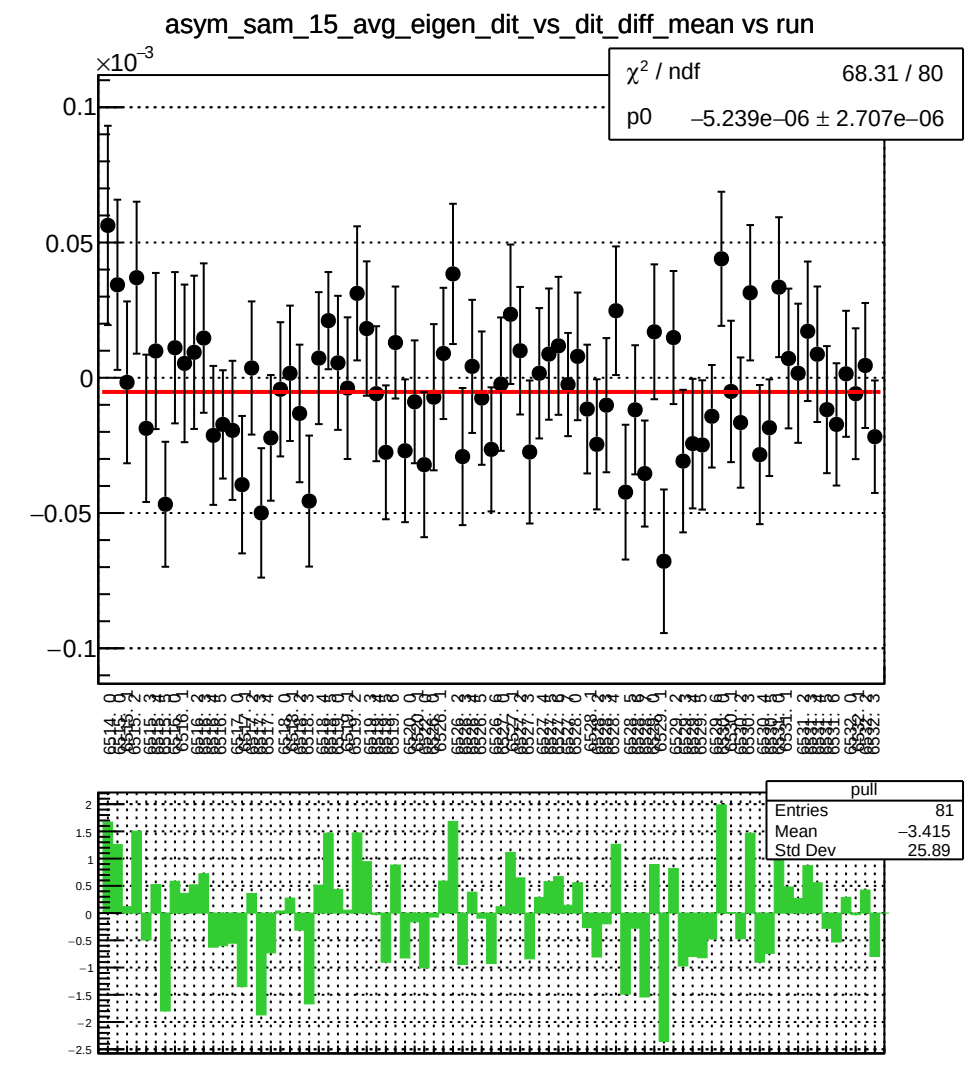

pull1D
Entries 81
Mean 0.01975
Std Dev 1.133

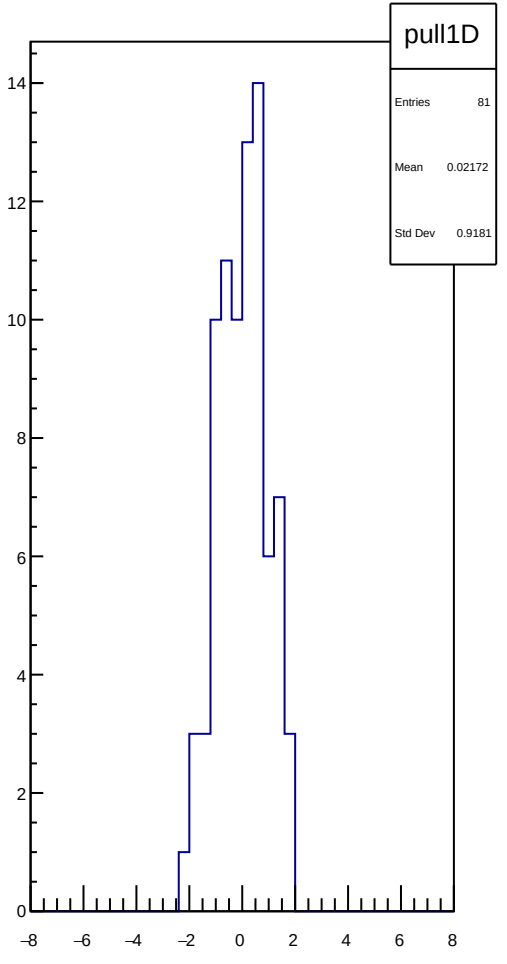

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.805e+04 / 80
p0 33.88 ± 0.02773
60
50
40
30
20

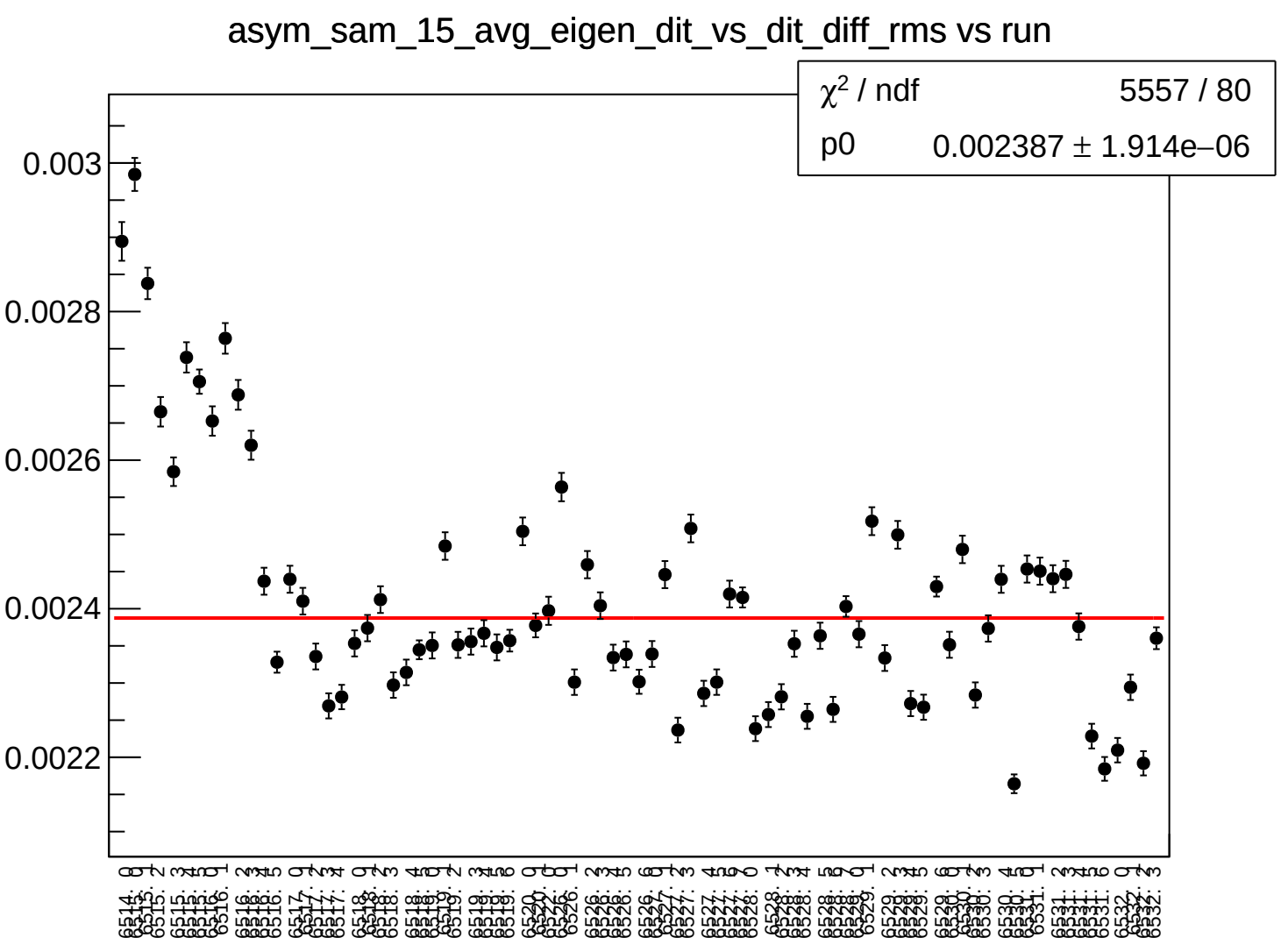

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.1 / 80
p0 −0.04901 ± 0.03921
pull
Entries 81
Mean −467.6
Std Dev 0

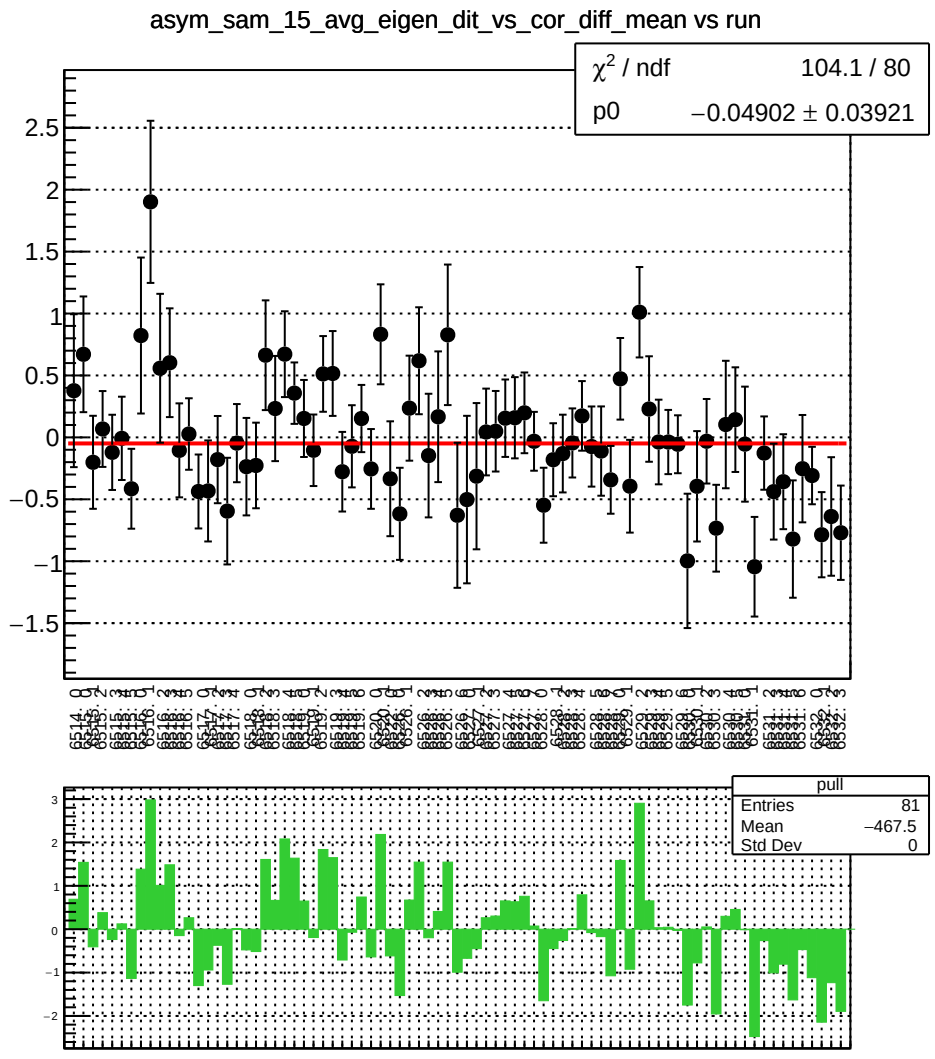

pull1D
Entries 81
Mean 0.01975
Std Dev 1.133

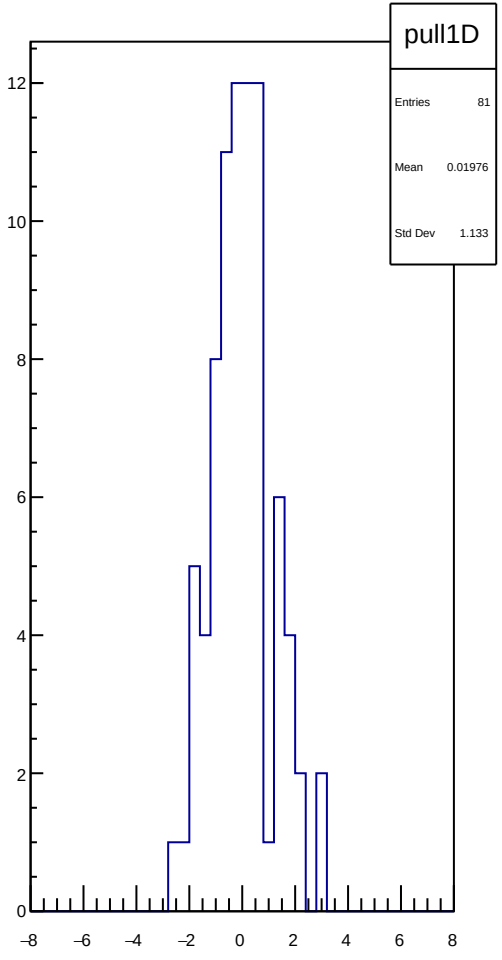

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.805e+04 / 80
p0 33.88 ± 0.02773
60
50
40
30
20

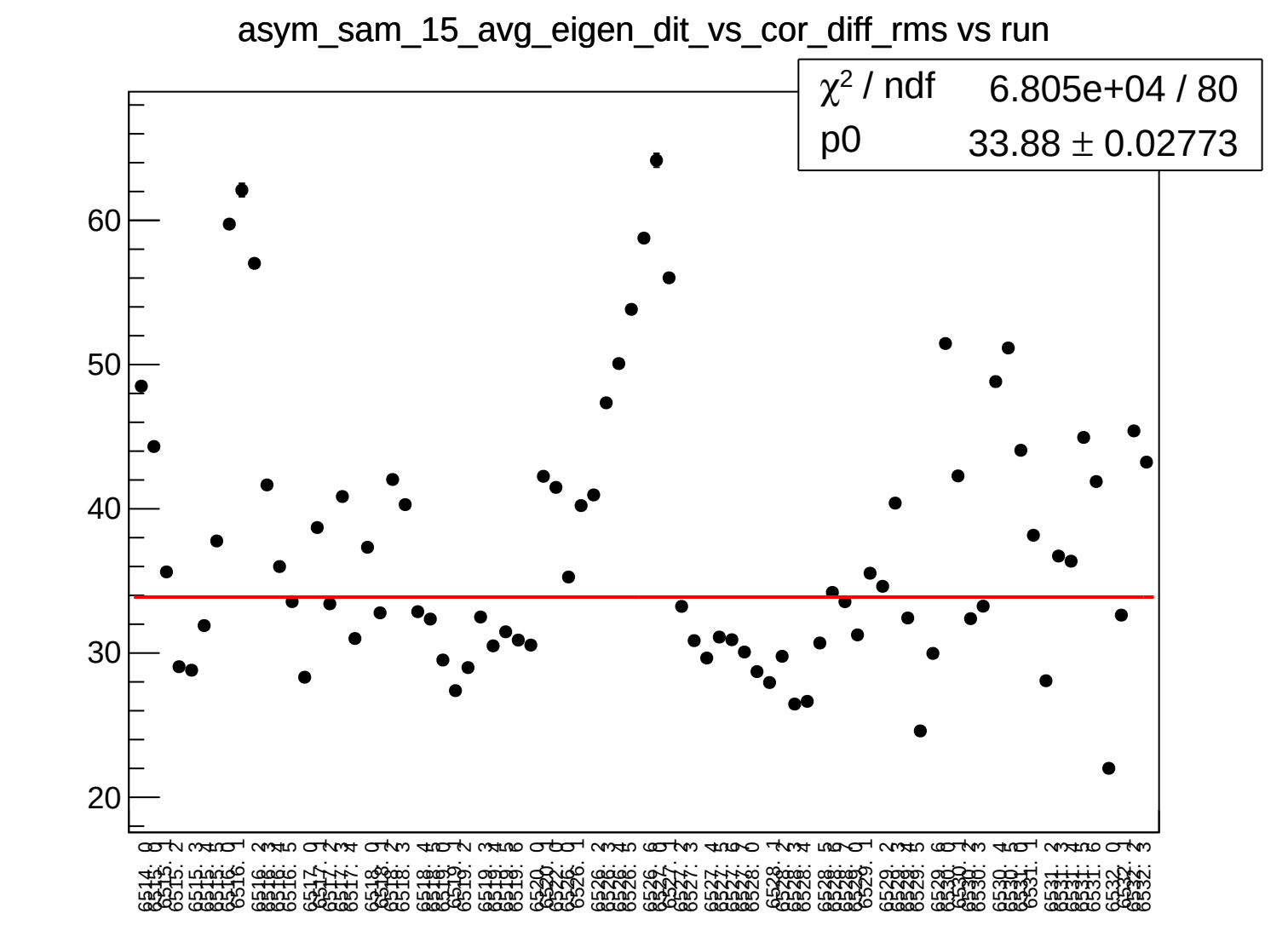

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 68.31 / 80
p0 −5.239e−06 ± 2.707e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 81
Mean −3.415
Std Dev 25.89
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

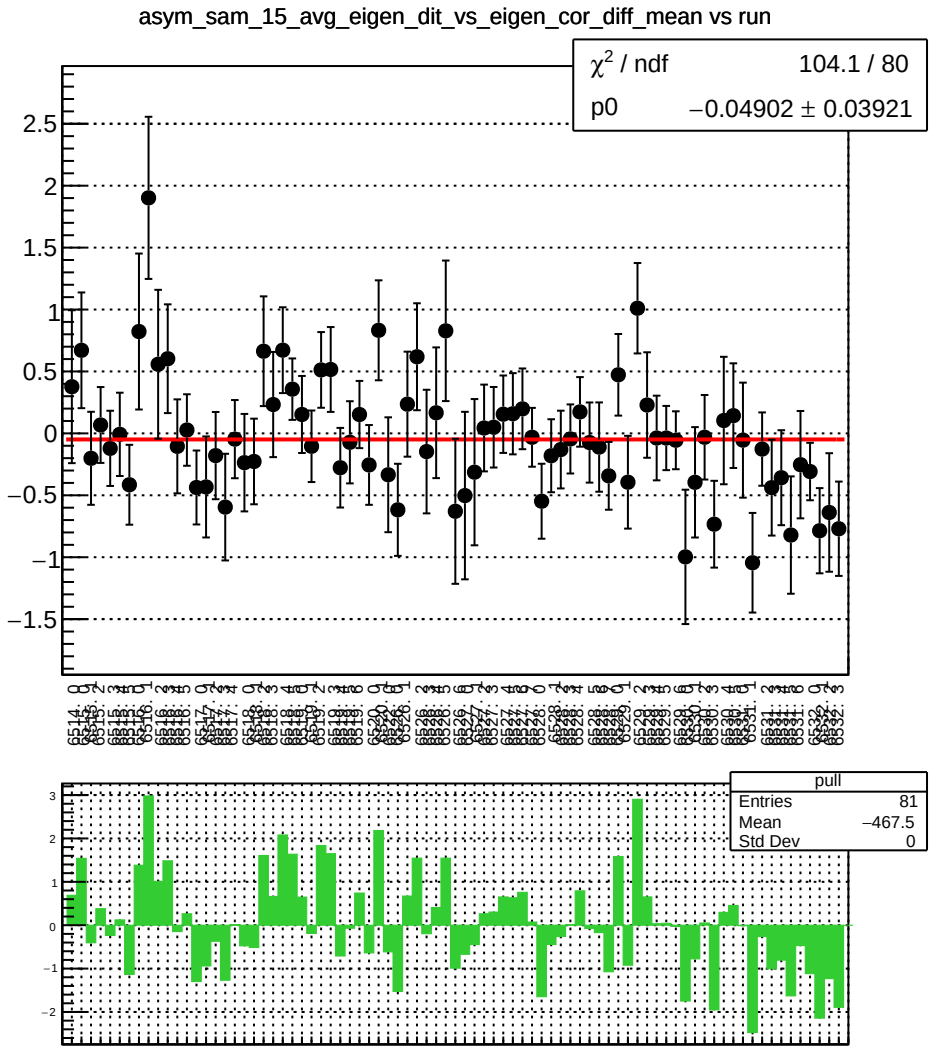

pull1D
Entries 81
Mean 0.02172
Std Dev 0.9181
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

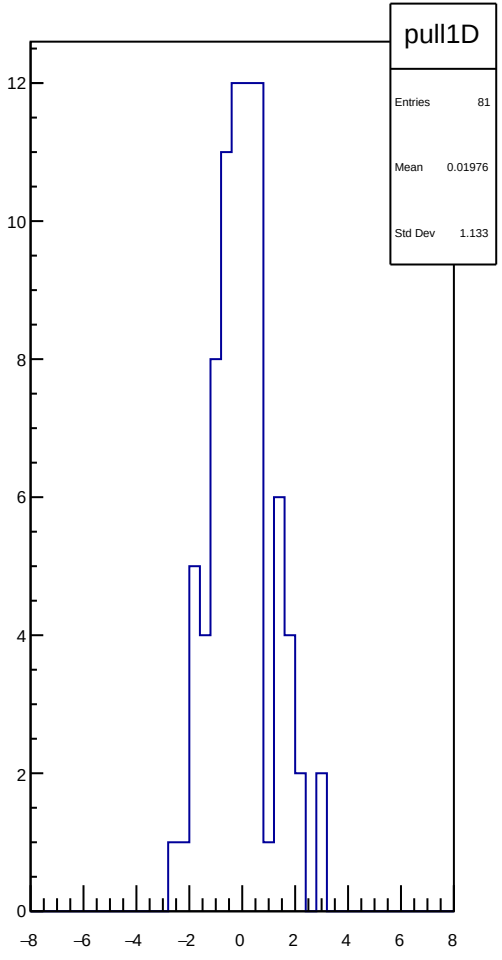

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5557 / 80
p0 0.002387 ± 1.914e−06
0.003
0.0028
0.0026
0.0024
0.0022

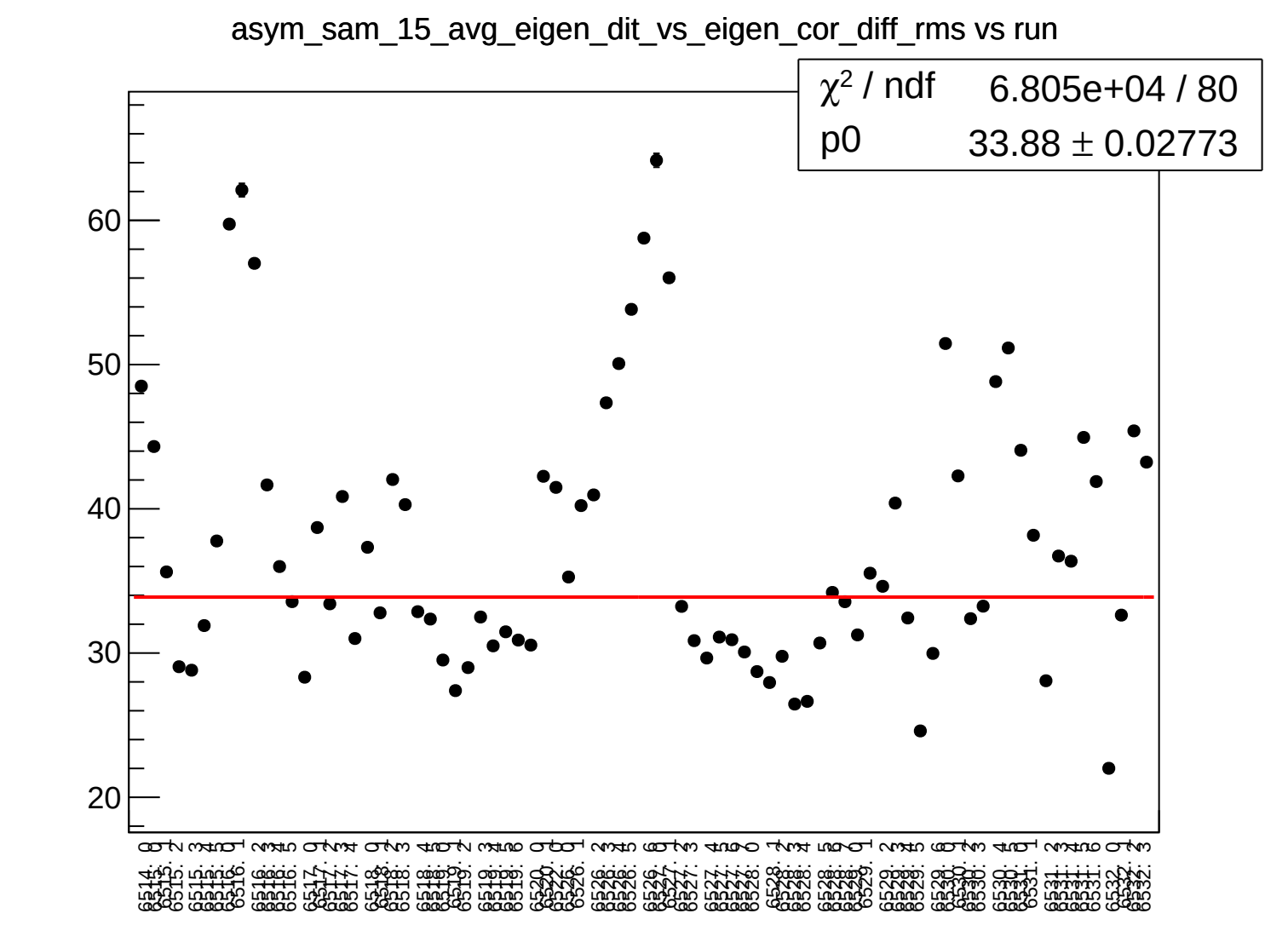

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.1 / 80
p0 −0.04902 ± 0.03921
pull
Entries 81
Mean −467.5
Std Dev 0

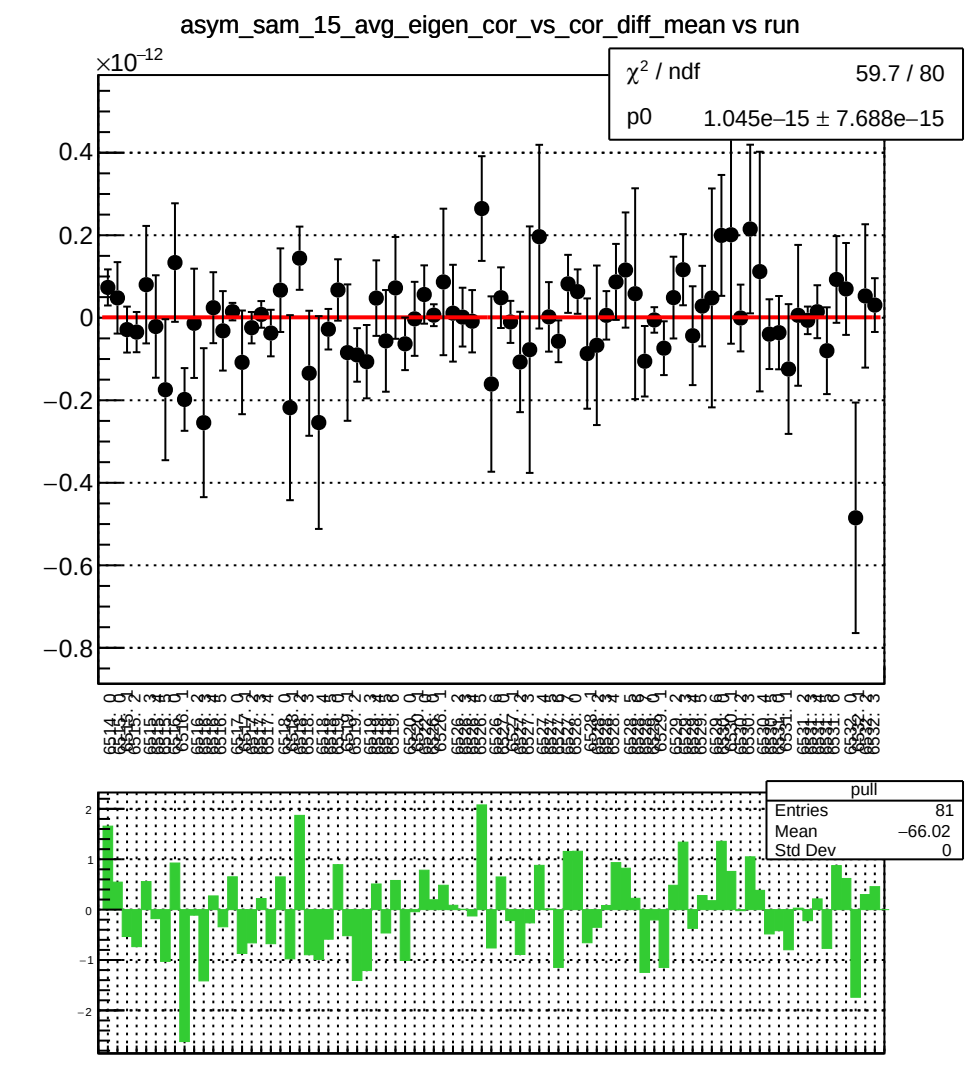

pull1D
Entries 81
Mean 0.01976
Std Dev 1.133

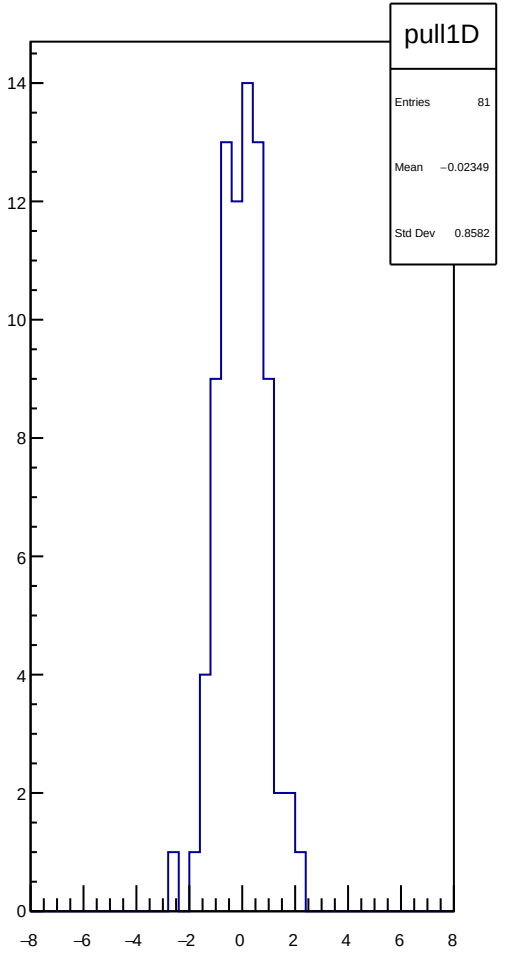

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.805e+04 / 80
p0 33.88 ± 0.02773
60
50
40
30
20

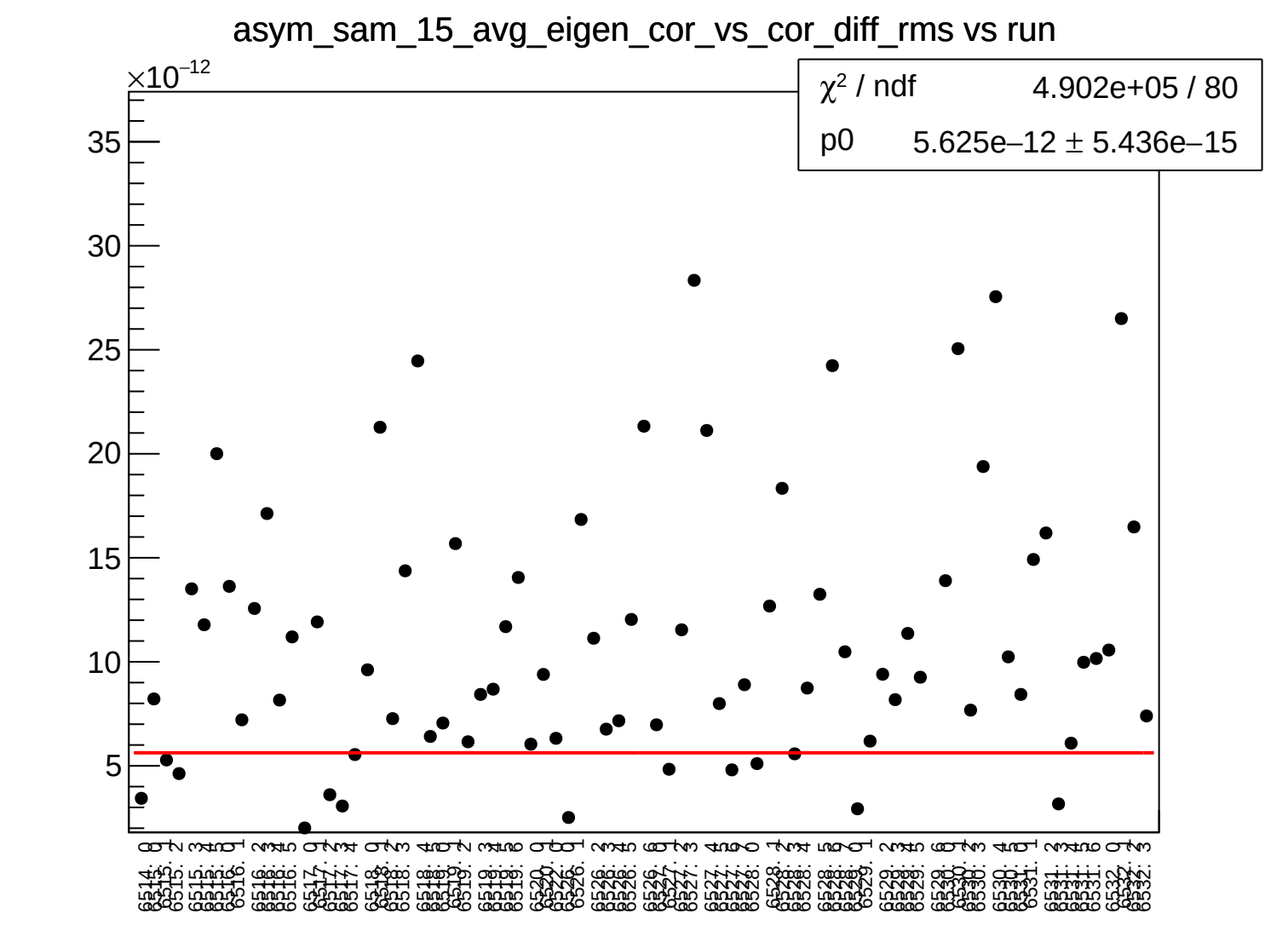

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.1 / 80
p0 −0.04902 ± 0.03921
pull
Entries 81
Mean −467.5
Std Dev 0

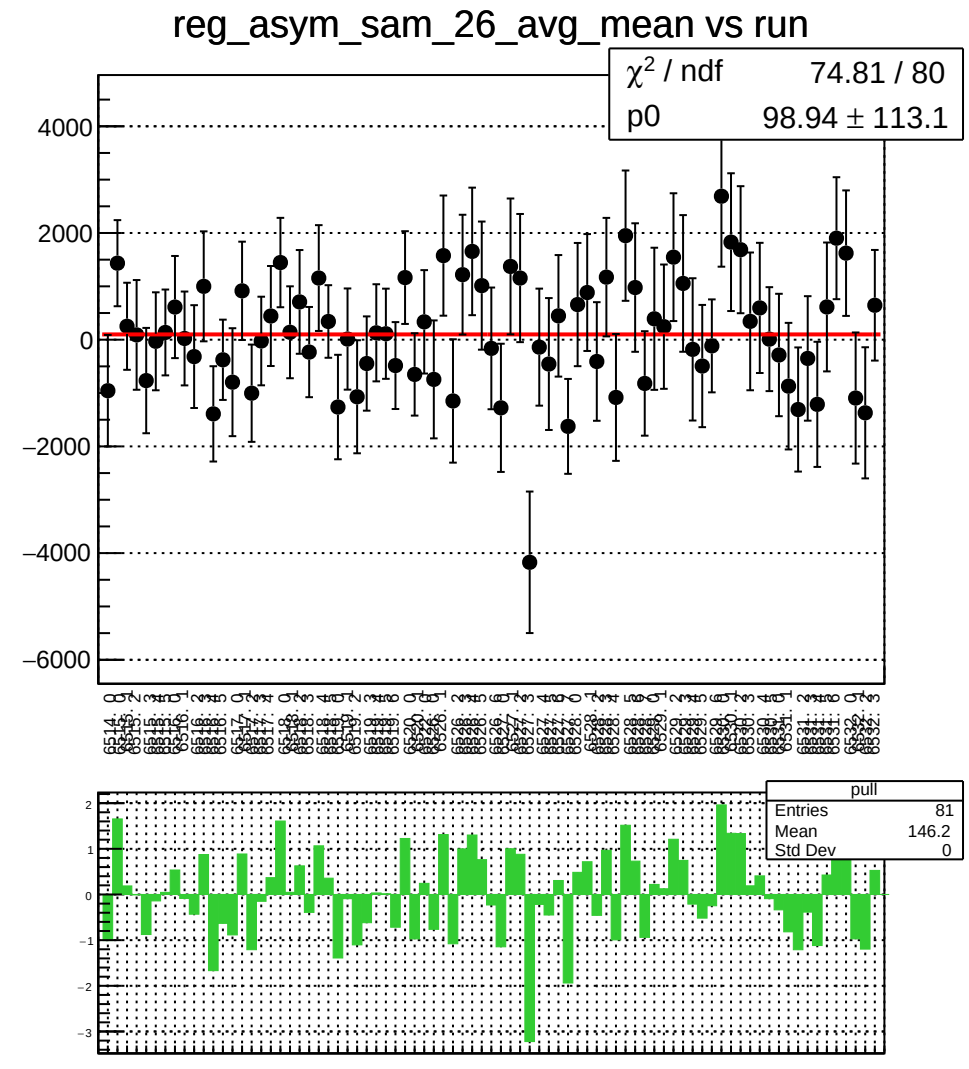

pull1D
Entries 81
Mean 0.01976
Std Dev 1.133

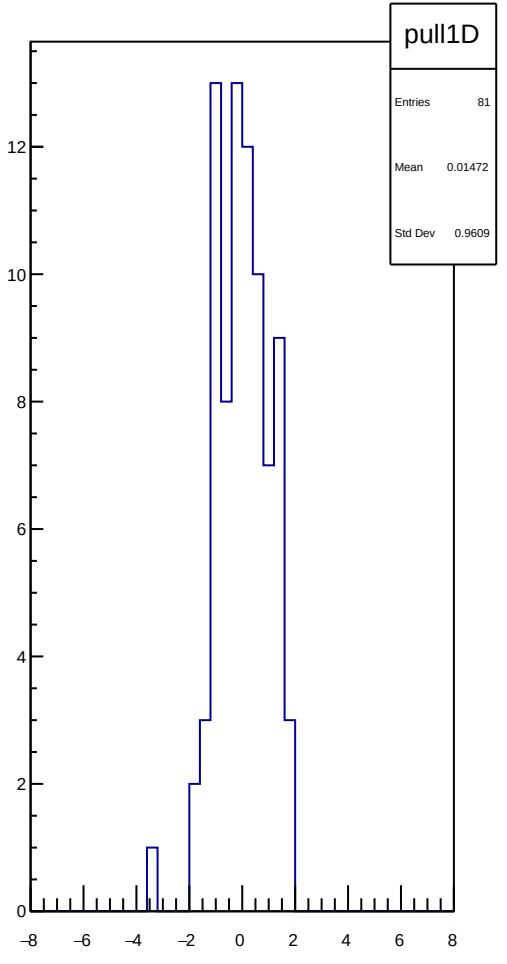

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.805e+04 / 80
p0 33.88 ± 0.02773
60
50
40
30
20

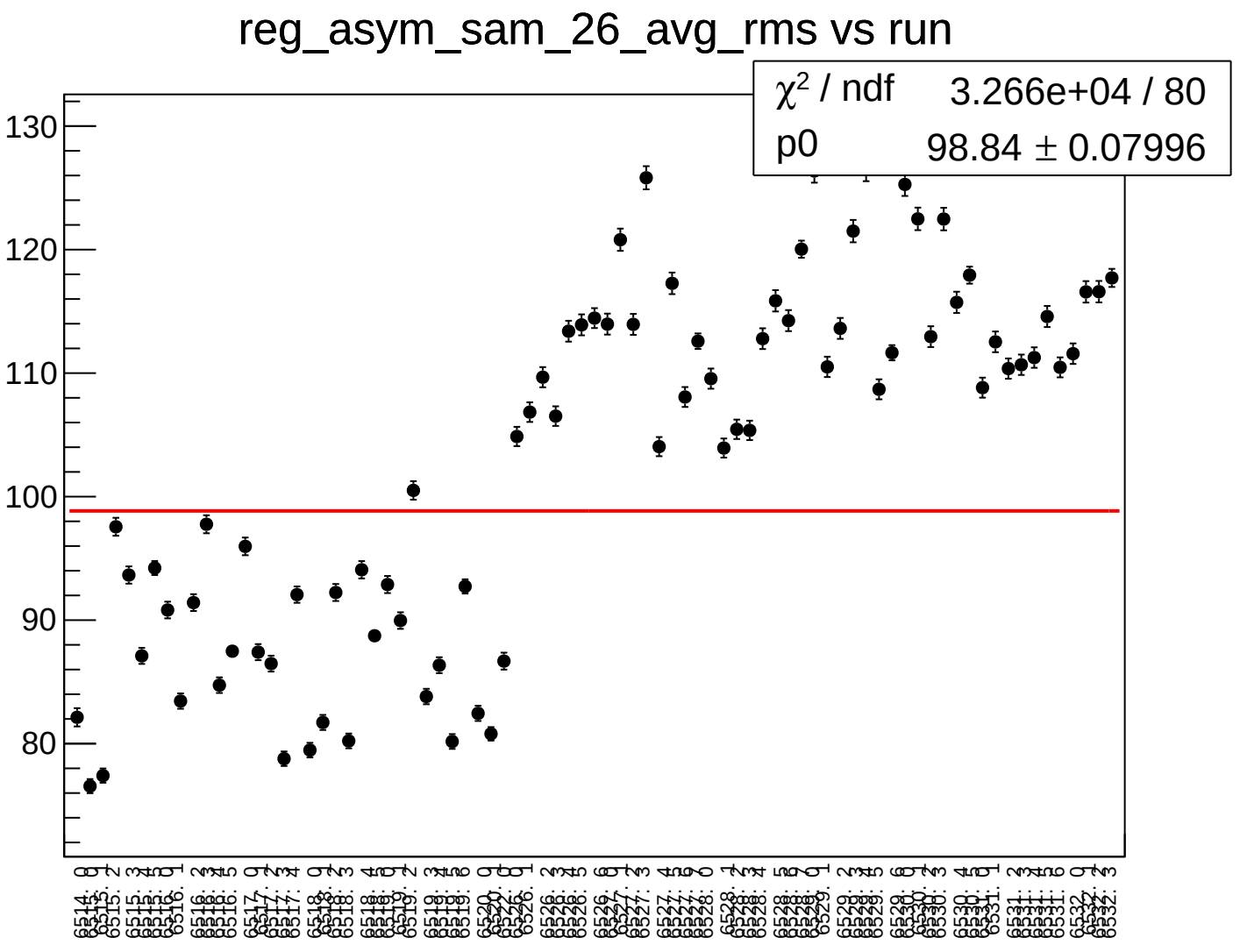

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 59.7 / 80
p0 1.045e−15 ± 7.688e−15
pull
Entries 81
Mean −66.02
Std Dev 0

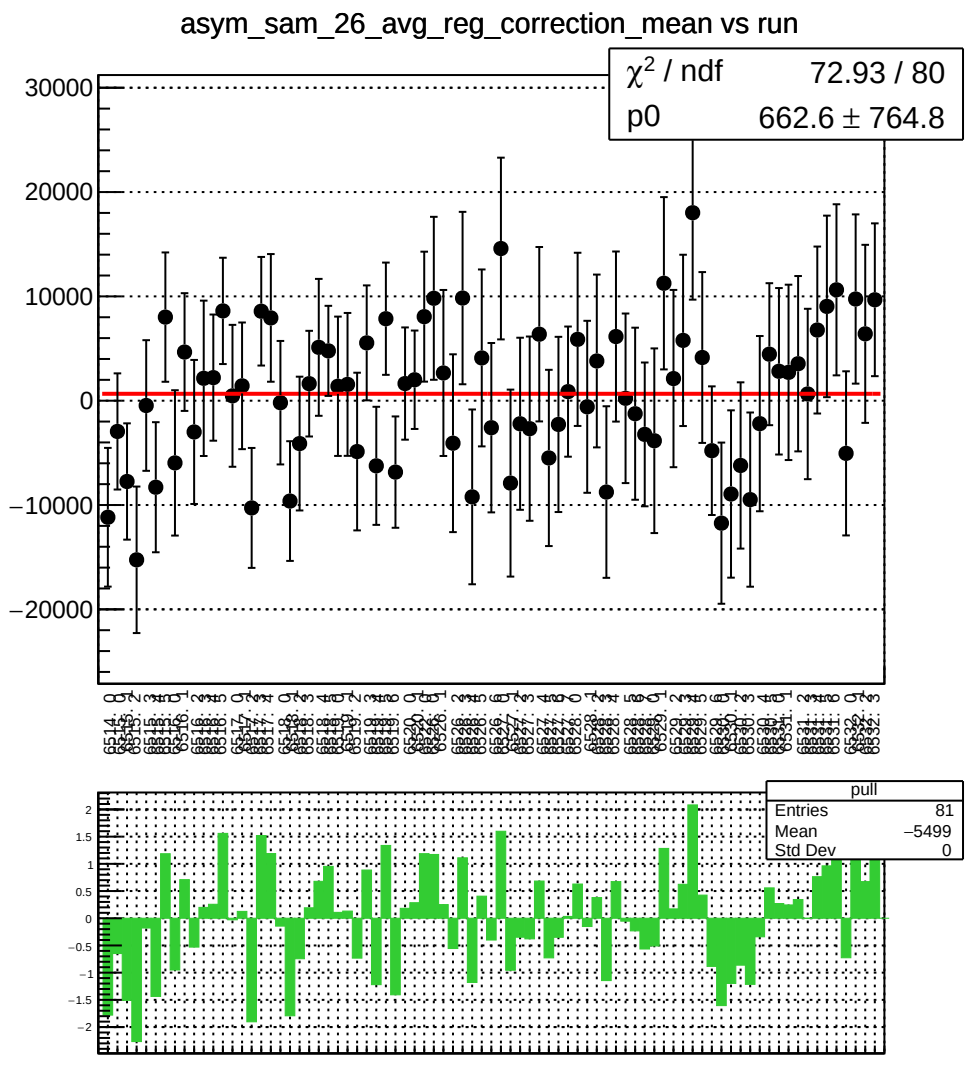

pull1D
Entries 81
Mean −0.02349
Std Dev 0.8582

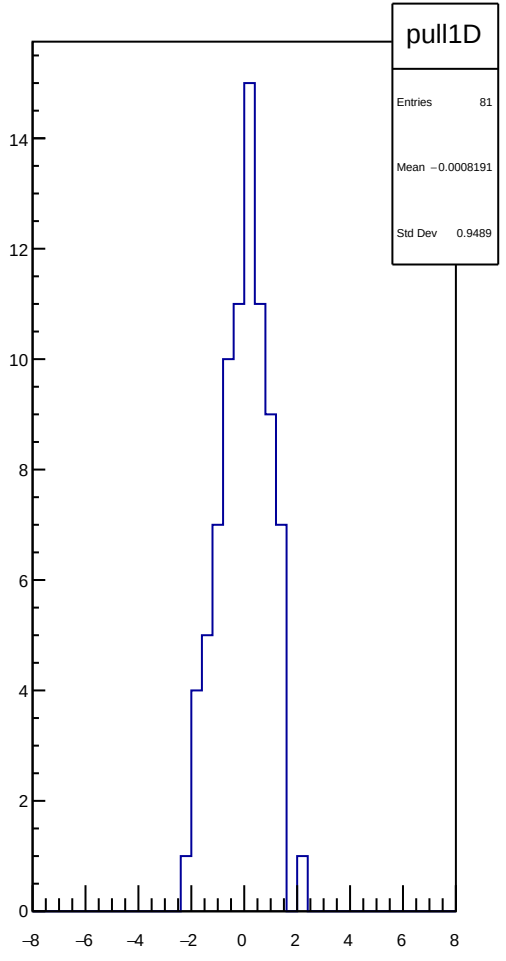

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.902e+05 / 80
p0 5.625e−12 ± 5.436e−15
35
30
25
20
15
10
5

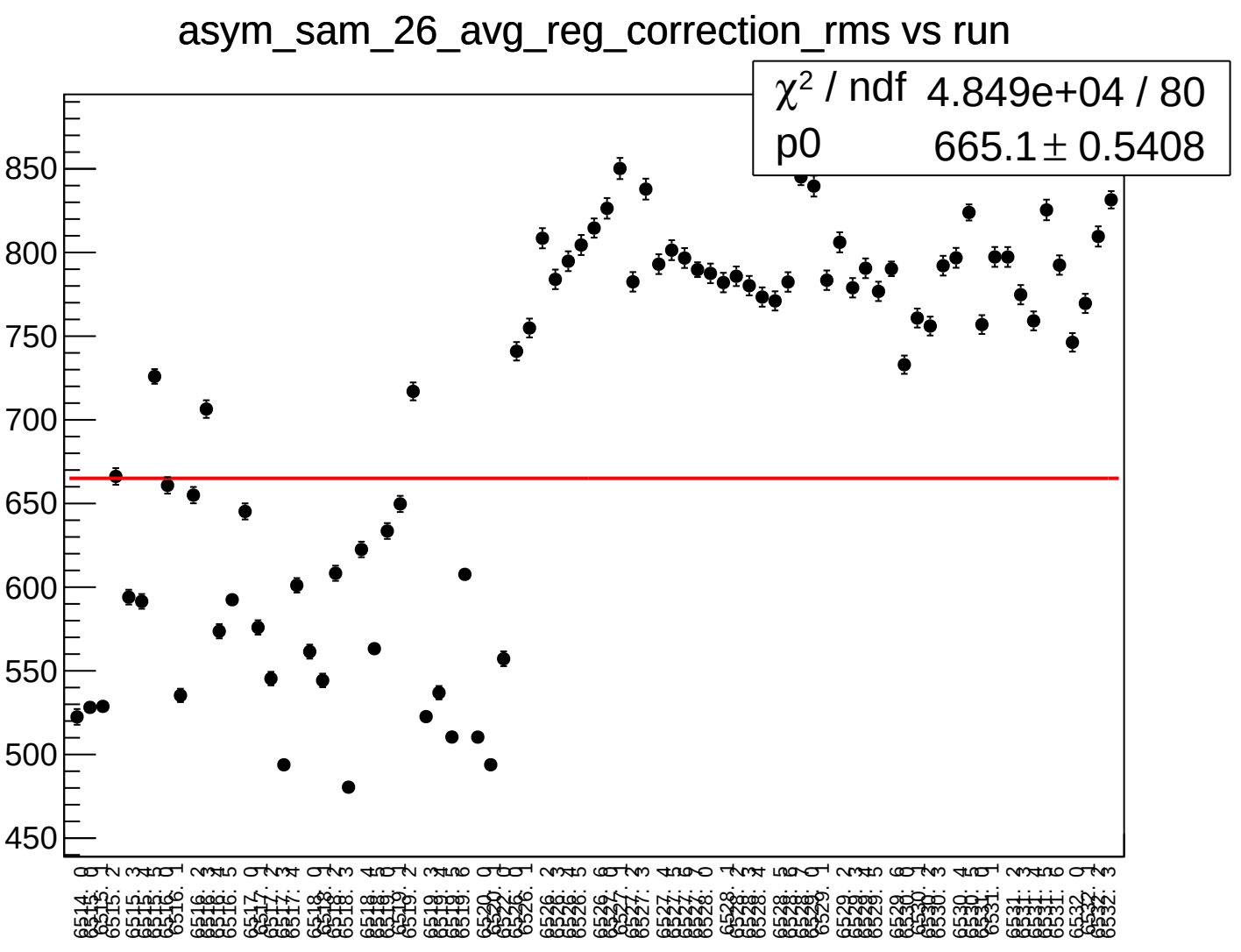

reg_asym_sam_26_avg_mean vs run
χ² / ndf 74.81 / 80
p0 98.94 ± 113.1
4000
2000
0
−2000
−4000
−6000
pull
Entries 81
Mean 146.2
Std Dev 0
2
1
0
−1
−2
−3

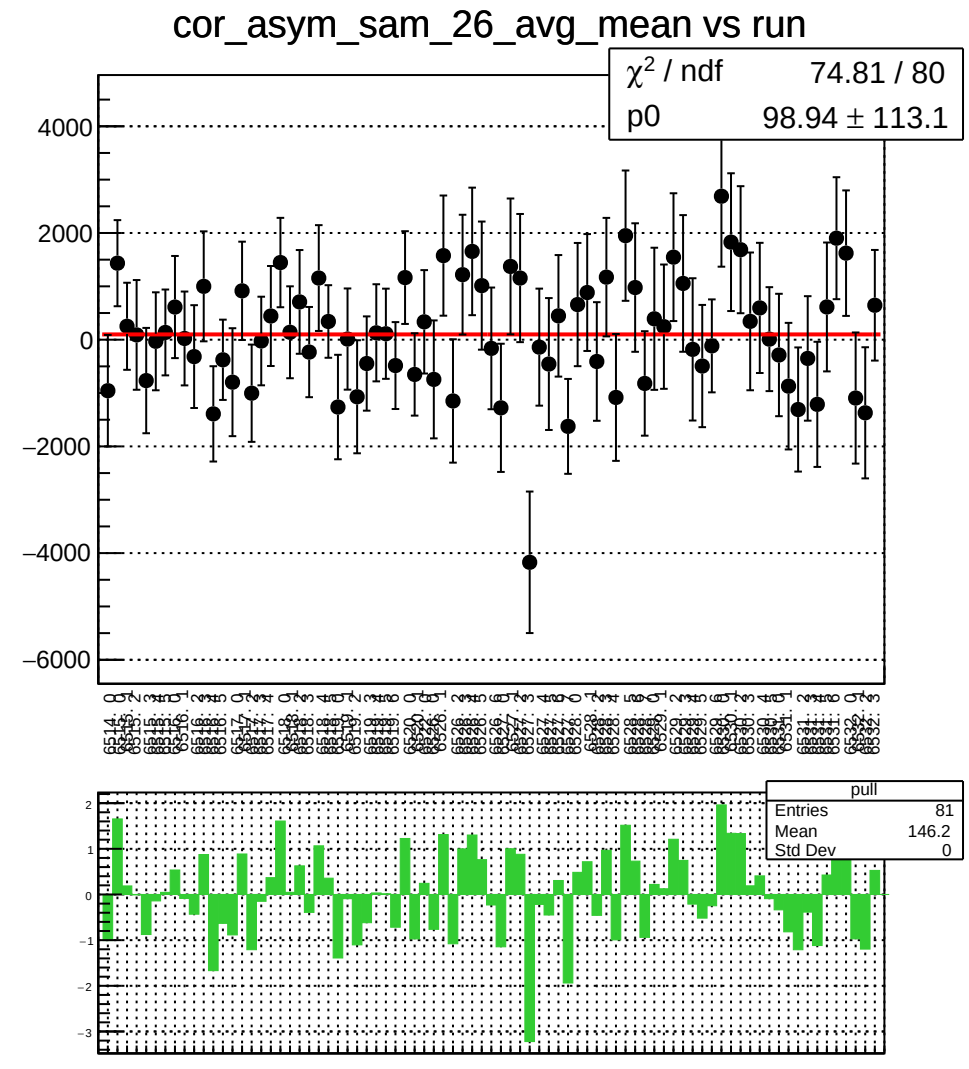

pull1D
Entries 81
Mean 0.01472
Std Dev 0.9609
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

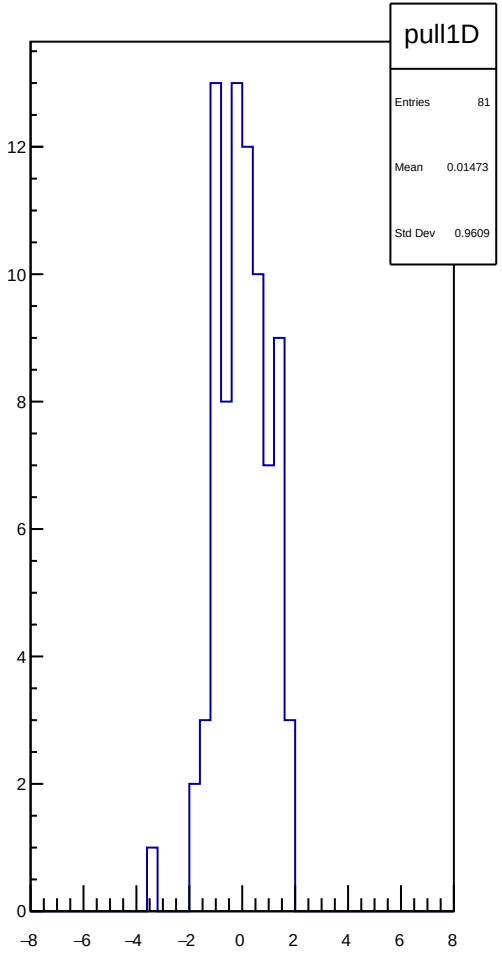

reg_asym_sam_26_avg_rms vs run
χ² / ndf 3.266e+04 / 80
p0 98.84 ± 0.07996
130
120
110
100
90
80

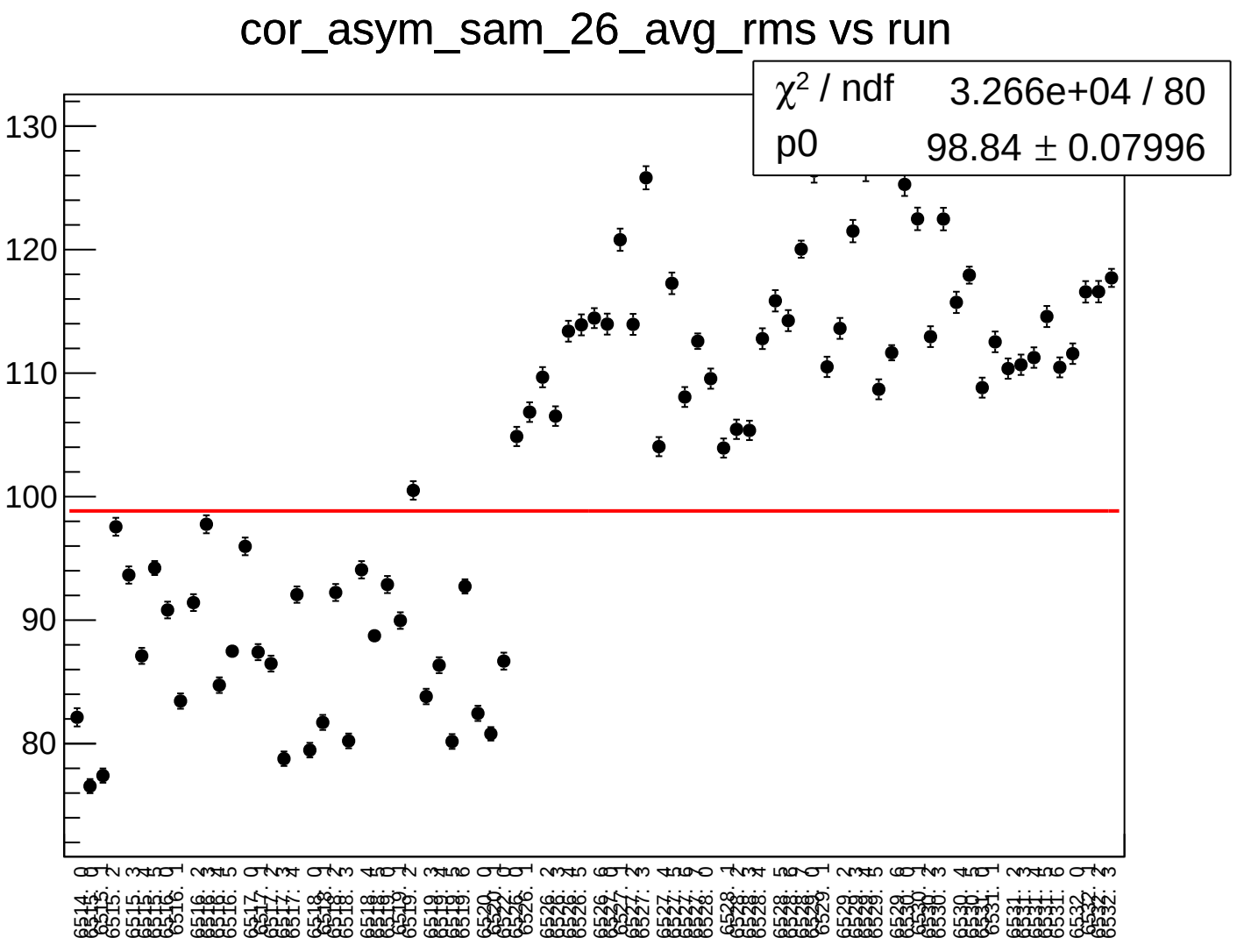

asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 72.93 / 80
p0 662.6 ± 764.8
30000
20000
10000
0
−10000
−20000
pull
Entries 81
Mean −5499
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

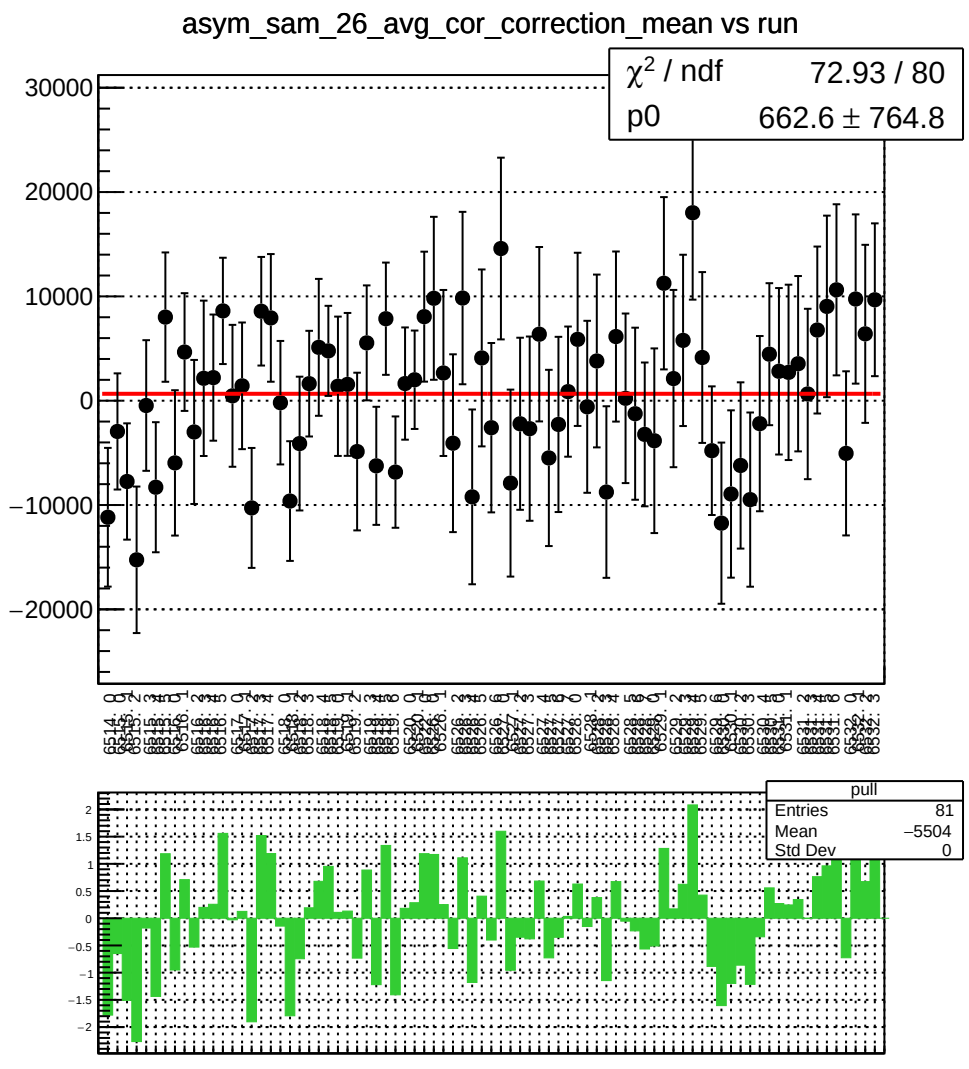

pull1D
Entries 81
Mean −0.0008191
Std Dev 0.9489
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

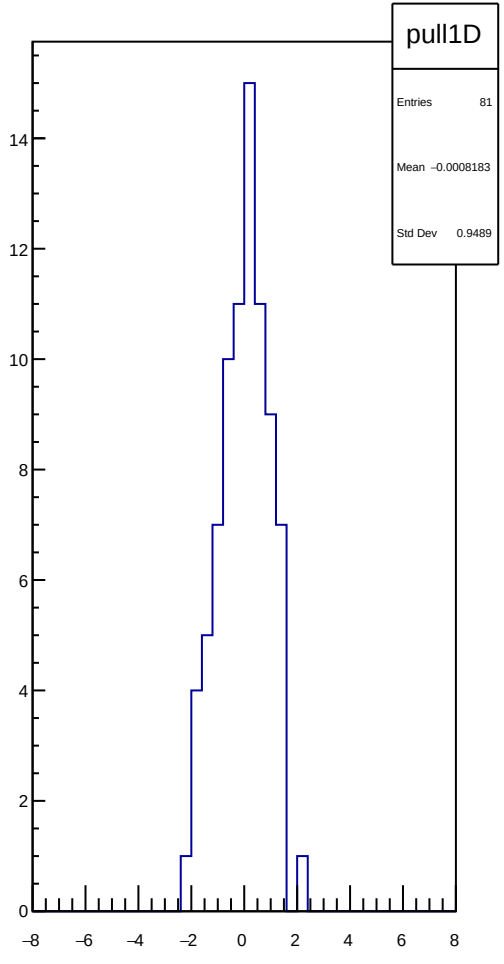

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 4.849e+04 / 80
p0 665.1 ± 0.5408
850
800
750
700
650
600
550
500
450

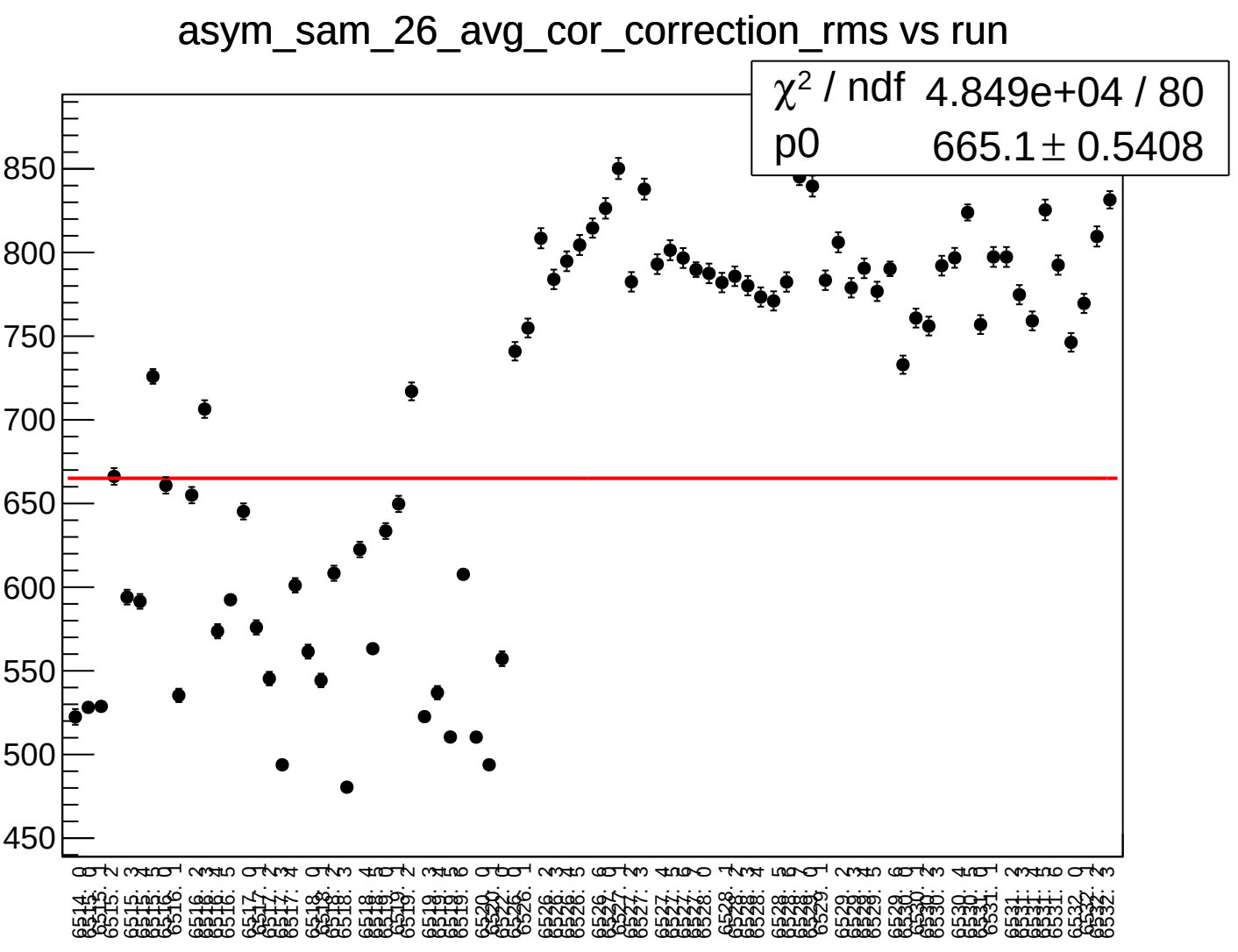

cor_asym_sam_26_avg_mean vs run
χ² / ndf 74.81 / 80
p0 98.94 ± 113.1
4000
2000
0
−2000
−4000
−6000
pull
Entries 81
Mean 146.2
Std Dev 0
2
1
0
−1
−2
−3

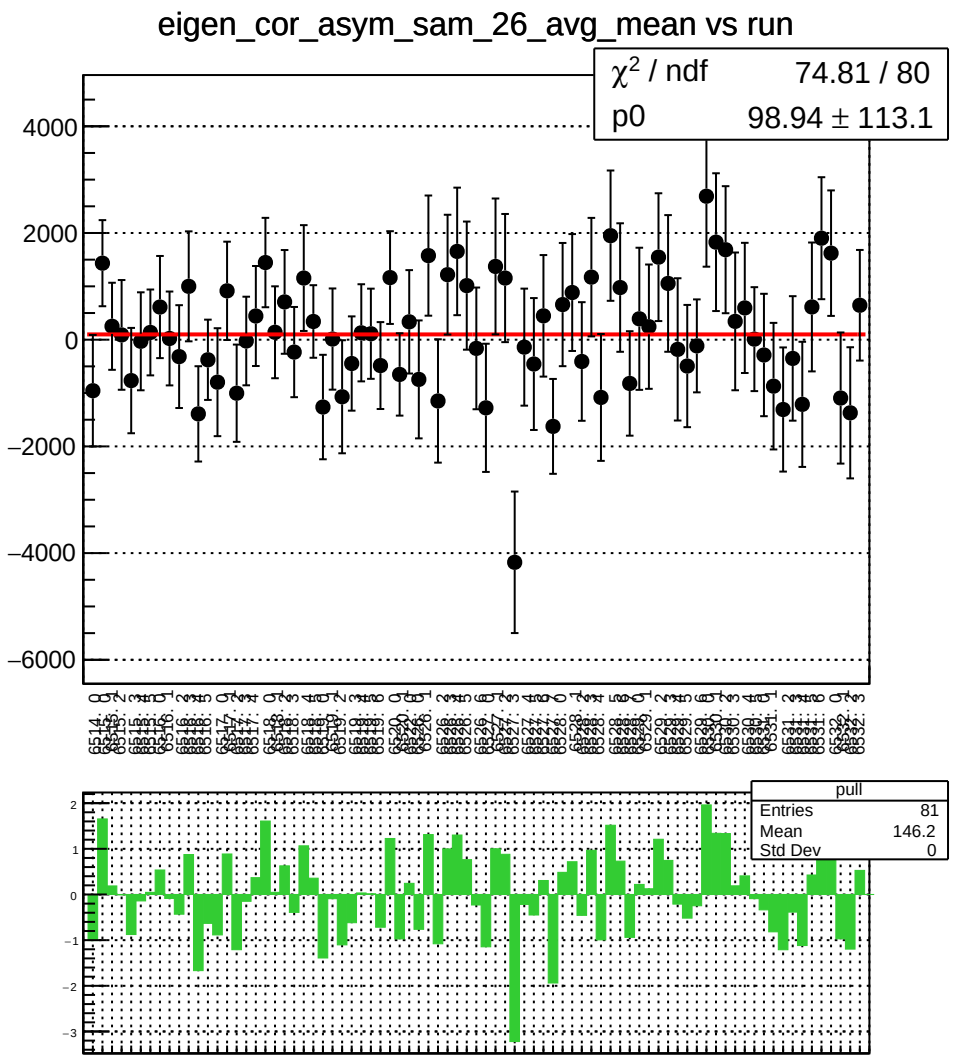

pull1D
Entries 81
Mean 0.01473
Std Dev 0.9609
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

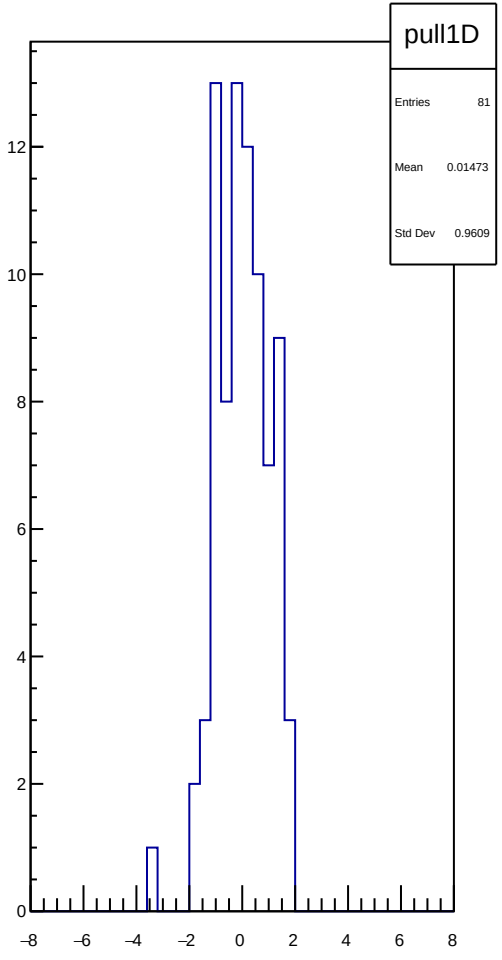

cor_asym_sam_26_avg_rms vs run
χ² / ndf 3.266e+04 / 80
p0 98.84 ± 0.07996
130
120
110
100
90
80

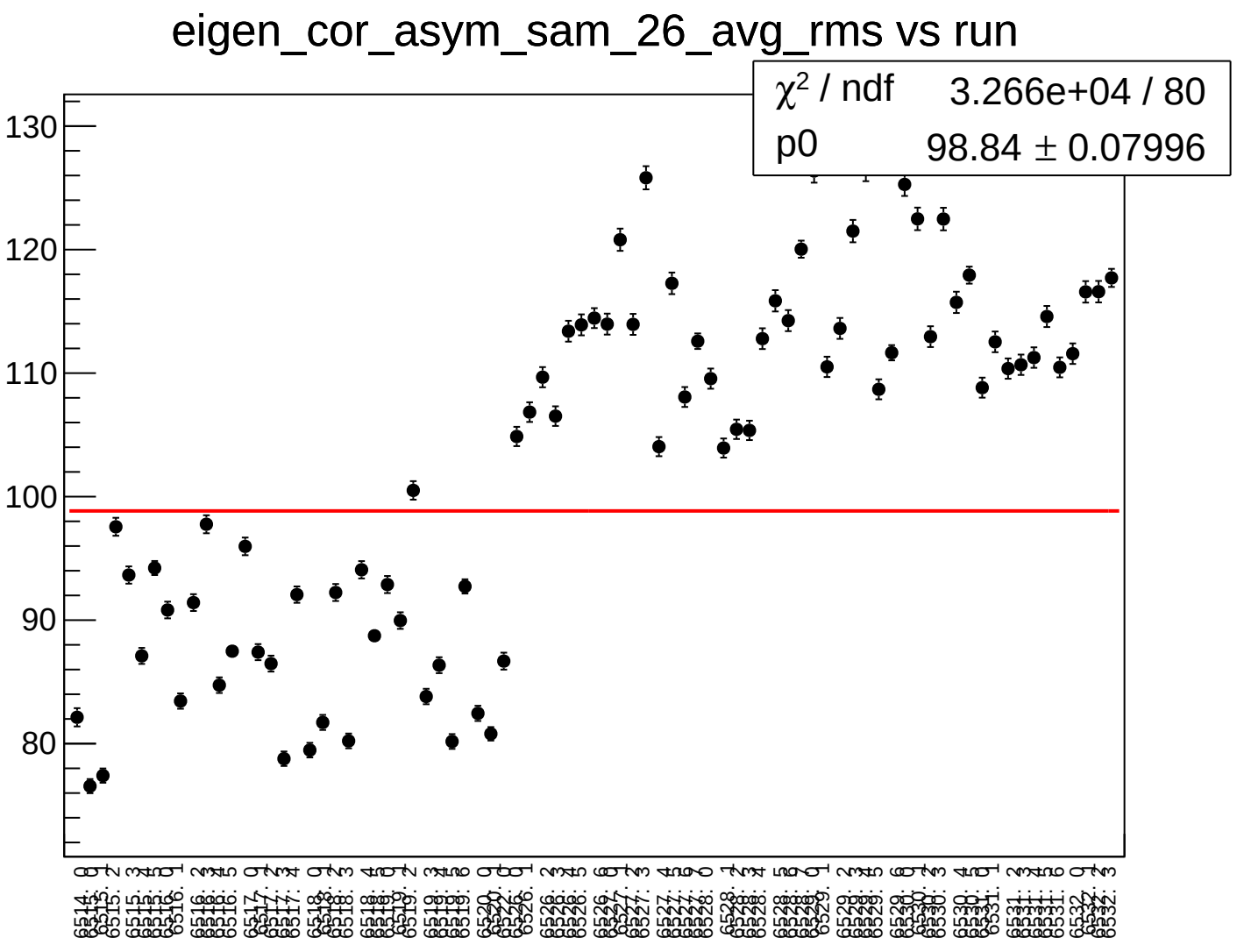

asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 72.93 / 80
p0 662.6 ± 764.8
30000
20000
10000
0
−10000
−20000
pull
Entries 81
Mean −5504
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

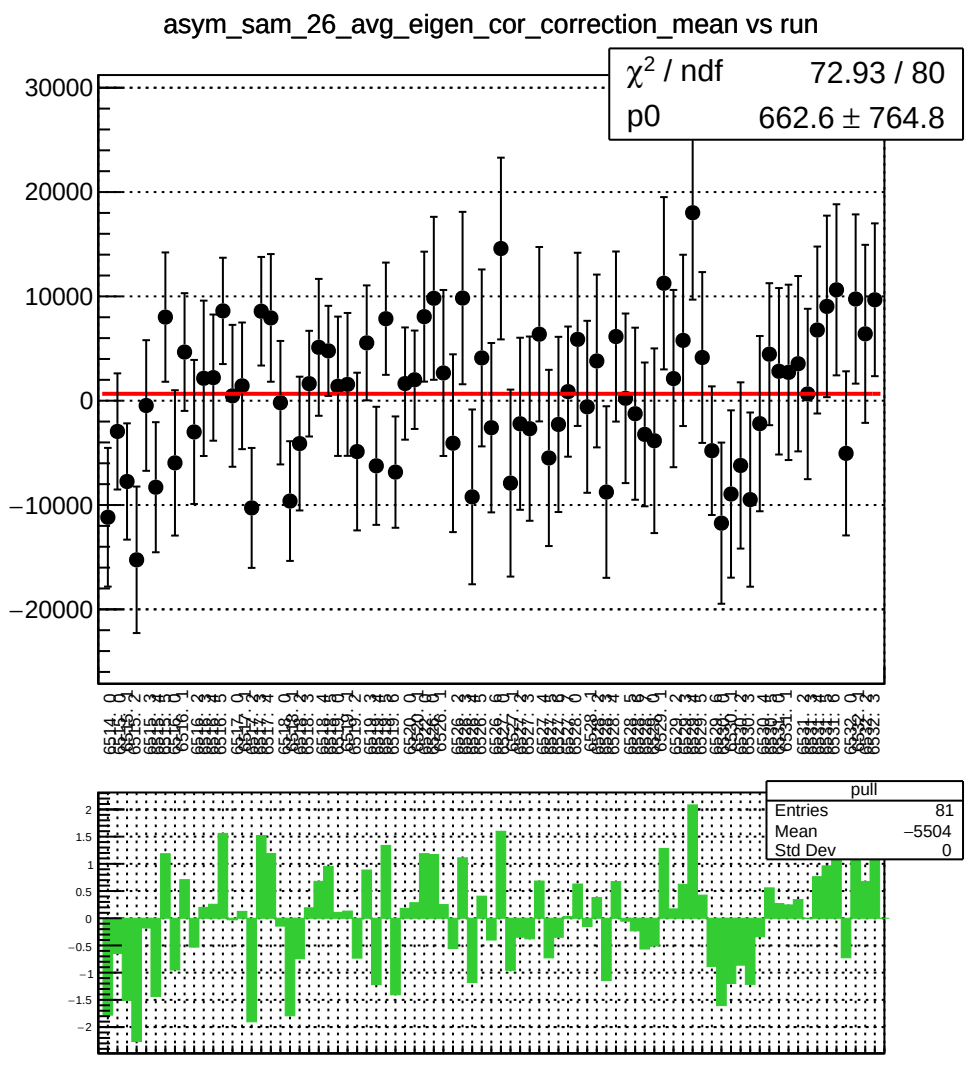

pull1D
Entries 81
Mean −0.0008183
Std Dev 0.9489
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

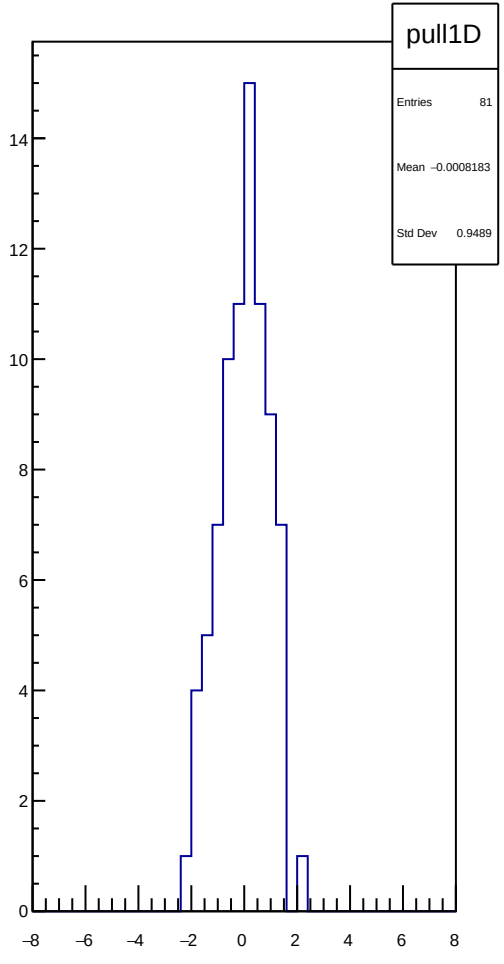

asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 4.849e+04 / 80
p0 665.1 ± 0.5408
850
800
750
700
650
600
550
500
450

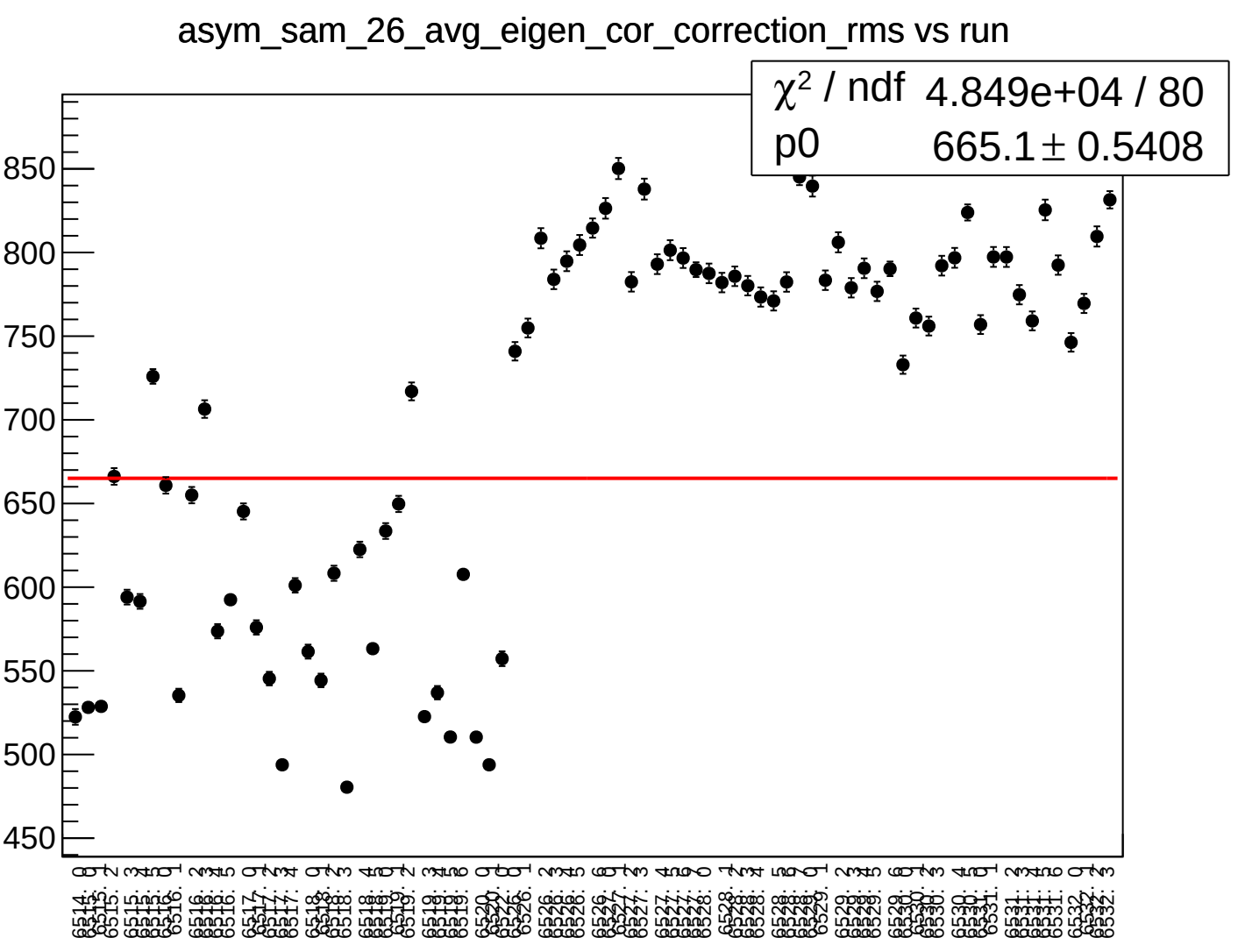

eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 74.81 / 80
p0 98.94 ± 113.1
4000
2000
0
−2000
−4000
−6000
pull
Entries 81
Mean 146.2
Std Dev 0
2
1
0
−1
−2
−3

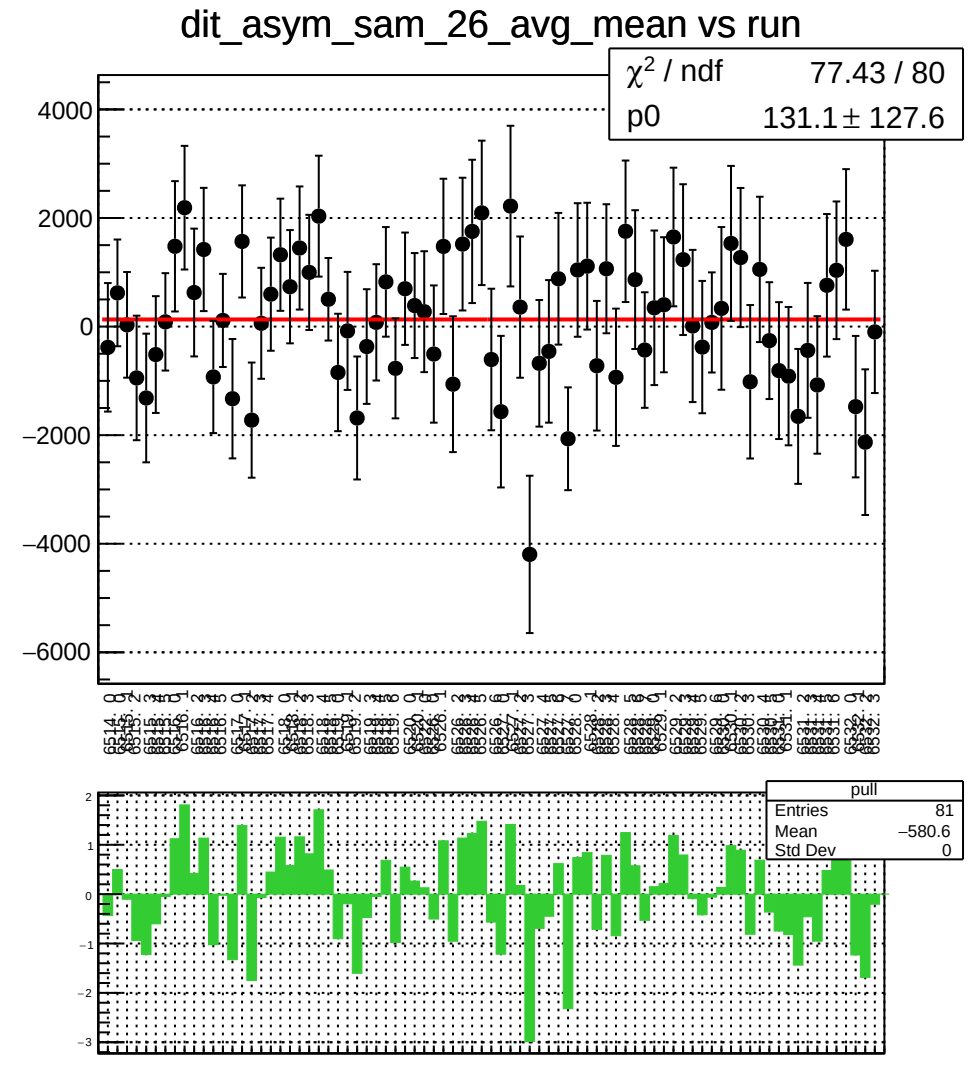

pull1D
Entries 81
Mean 0.01473
Std Dev 0.9609
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

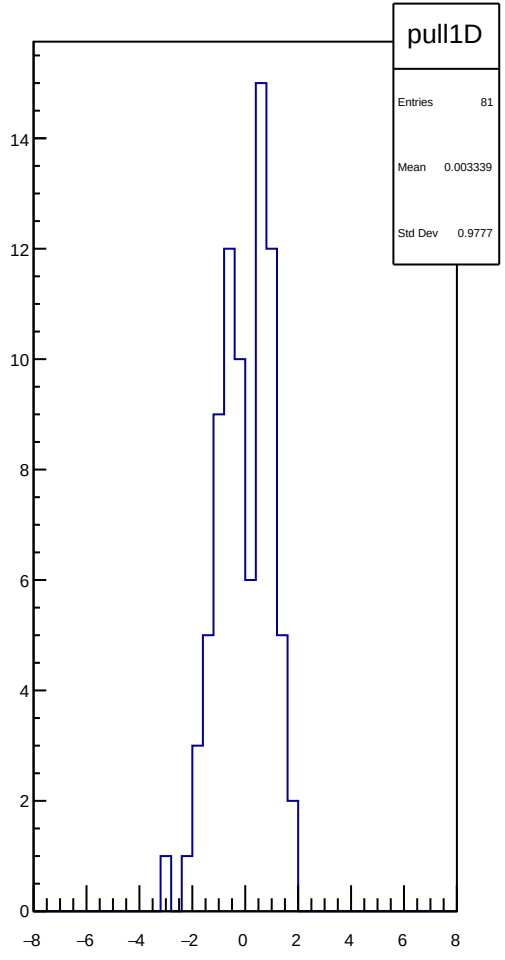

eigen_cor_asym_sam_26_avg_rms vs run
χ² / ndf 3.266e+04 / 80
p0 98.84 ± 0.07996
130
120
110
100
90
80

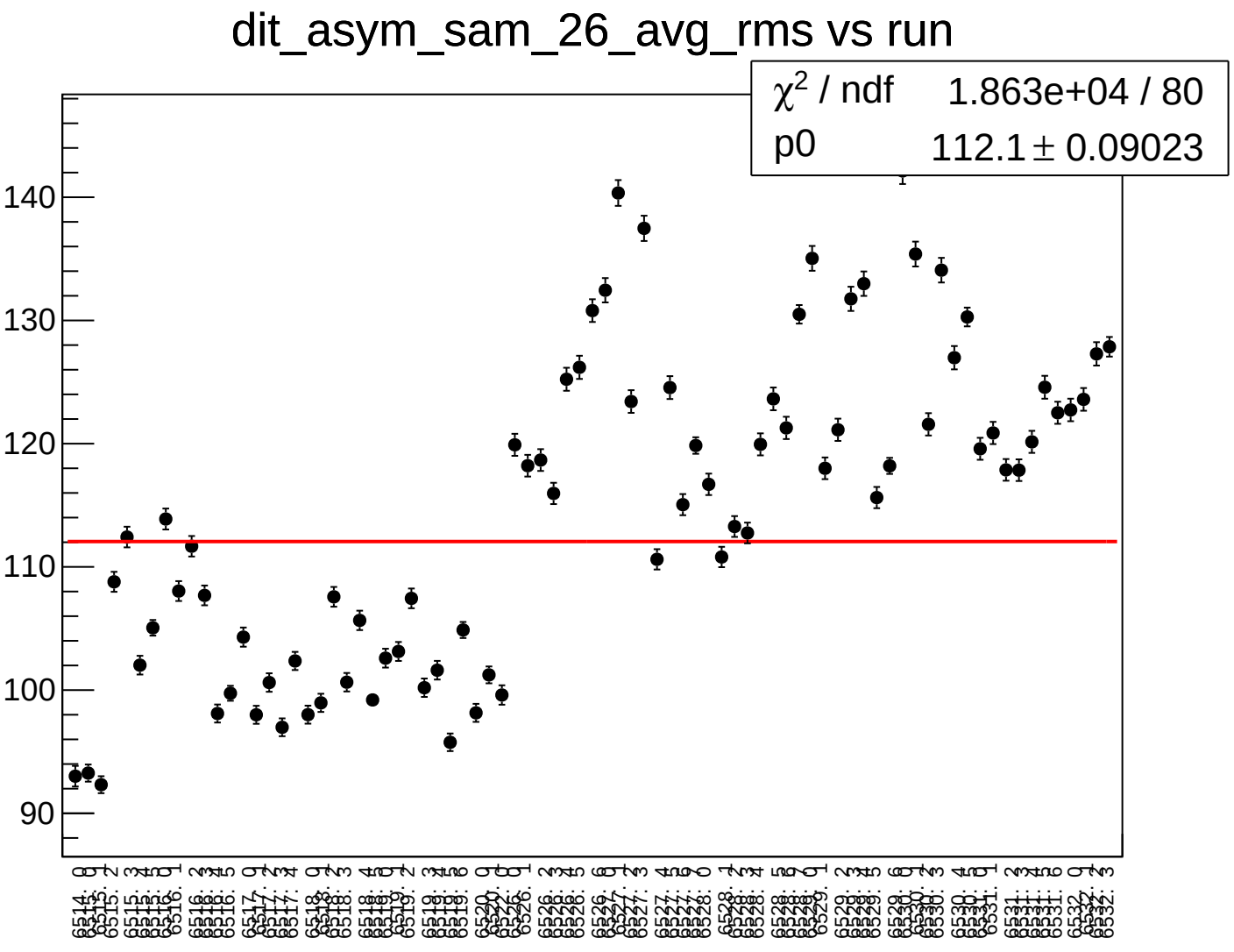

asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 72.93 / 80
p0 662.6 ± 764.8
30000
20000
10000
0
−10000
−20000
pull
Entries 81
Mean −5504
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

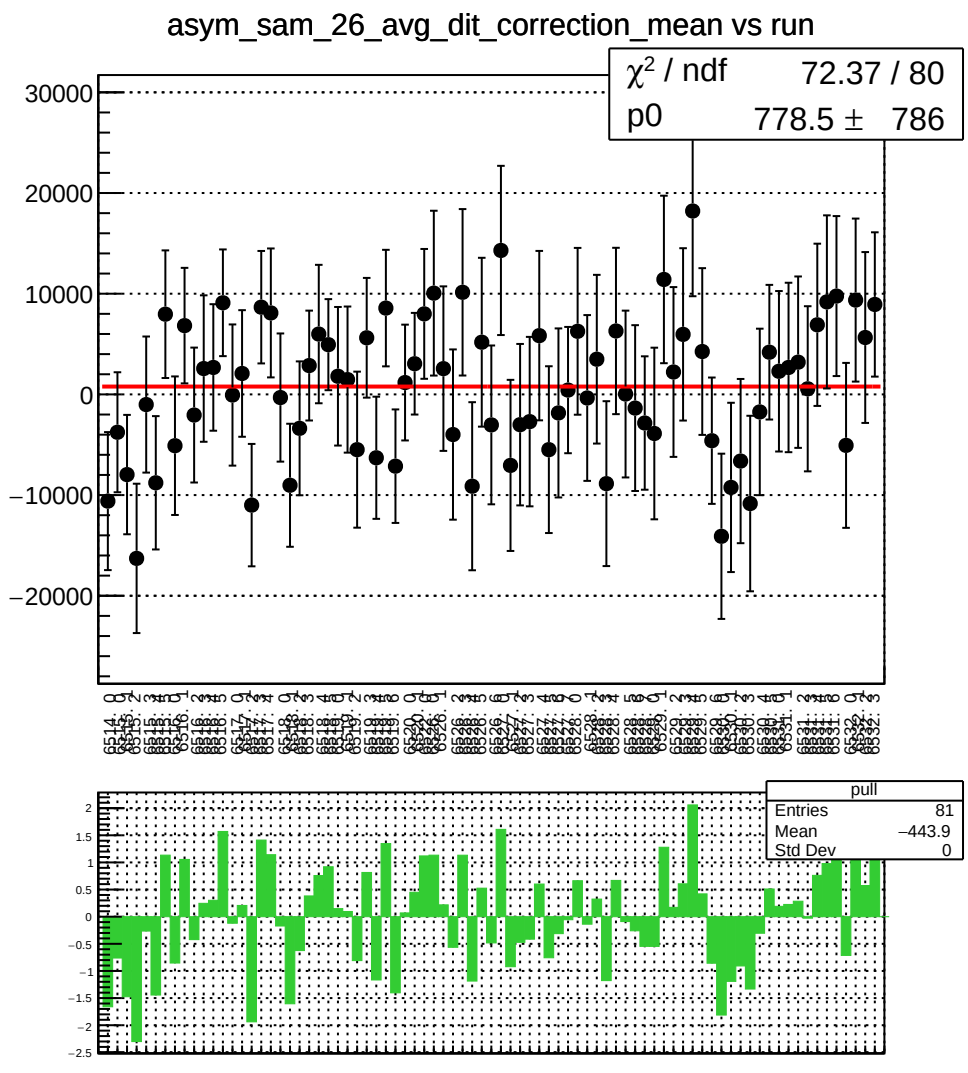

pull1D
Entries 81
Mean −0.0008183
Std Dev 0.9489
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

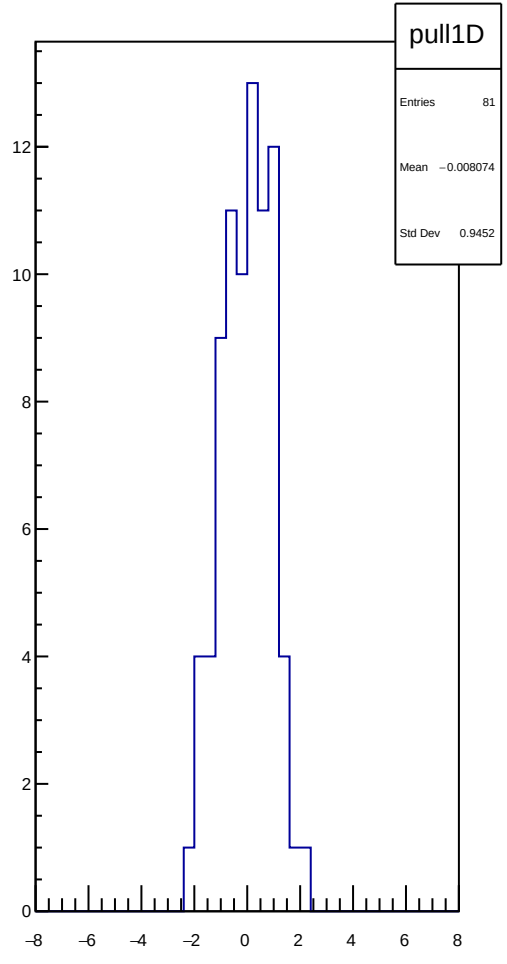

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 4.849e+04 / 80
p0 665.1 ± 0.5408
850
800
750
700
650
600
550
500
450

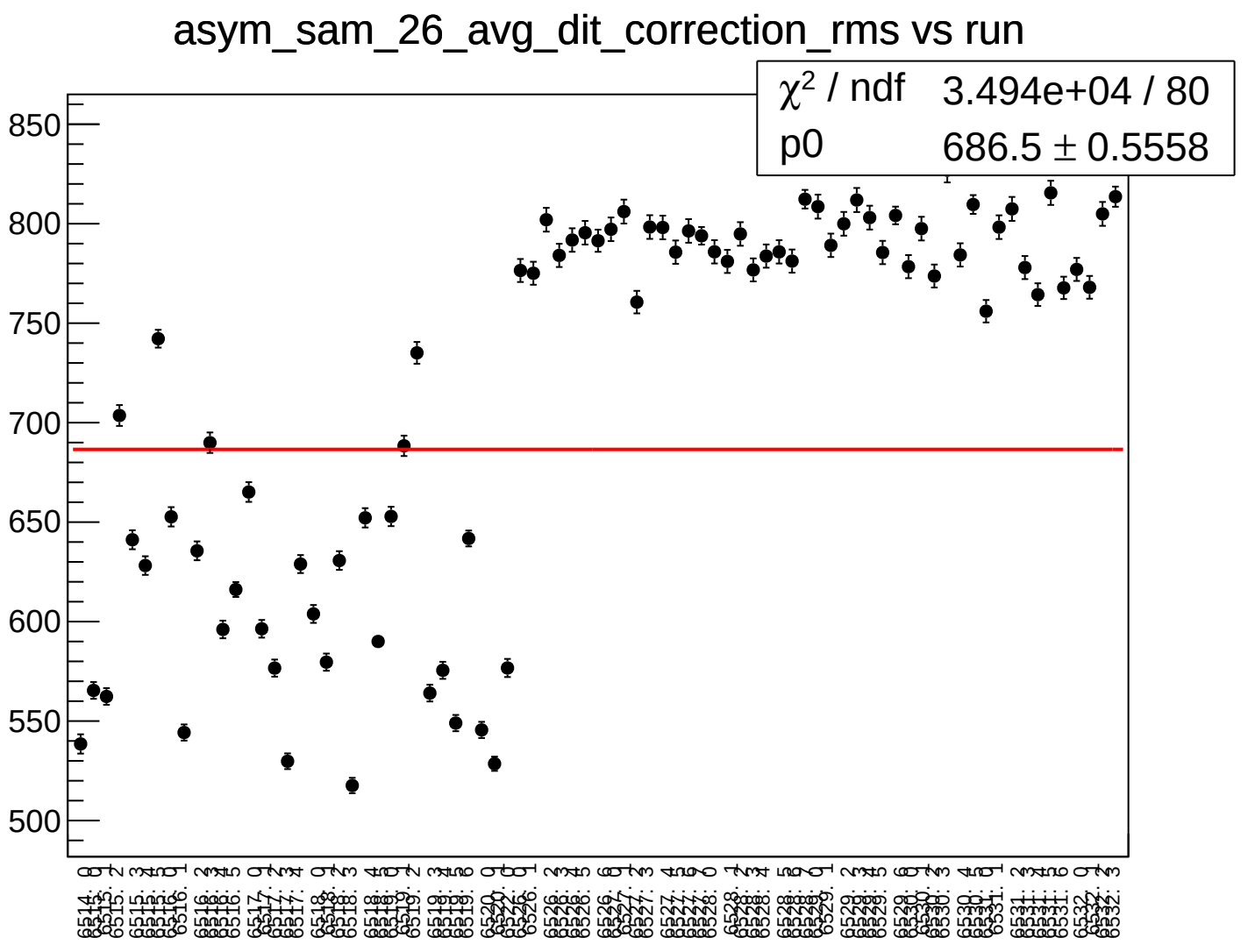

dit_asym_sam_26_avg_mean vs run
χ² / ndf 77.43 / 80
p0 131.1 ± 127.6
4000
2000
0
−2000
−4000
−6000
pull
Entries 81
Mean −580.6
Std Dev 0
2
1
0
−1
−2
−3

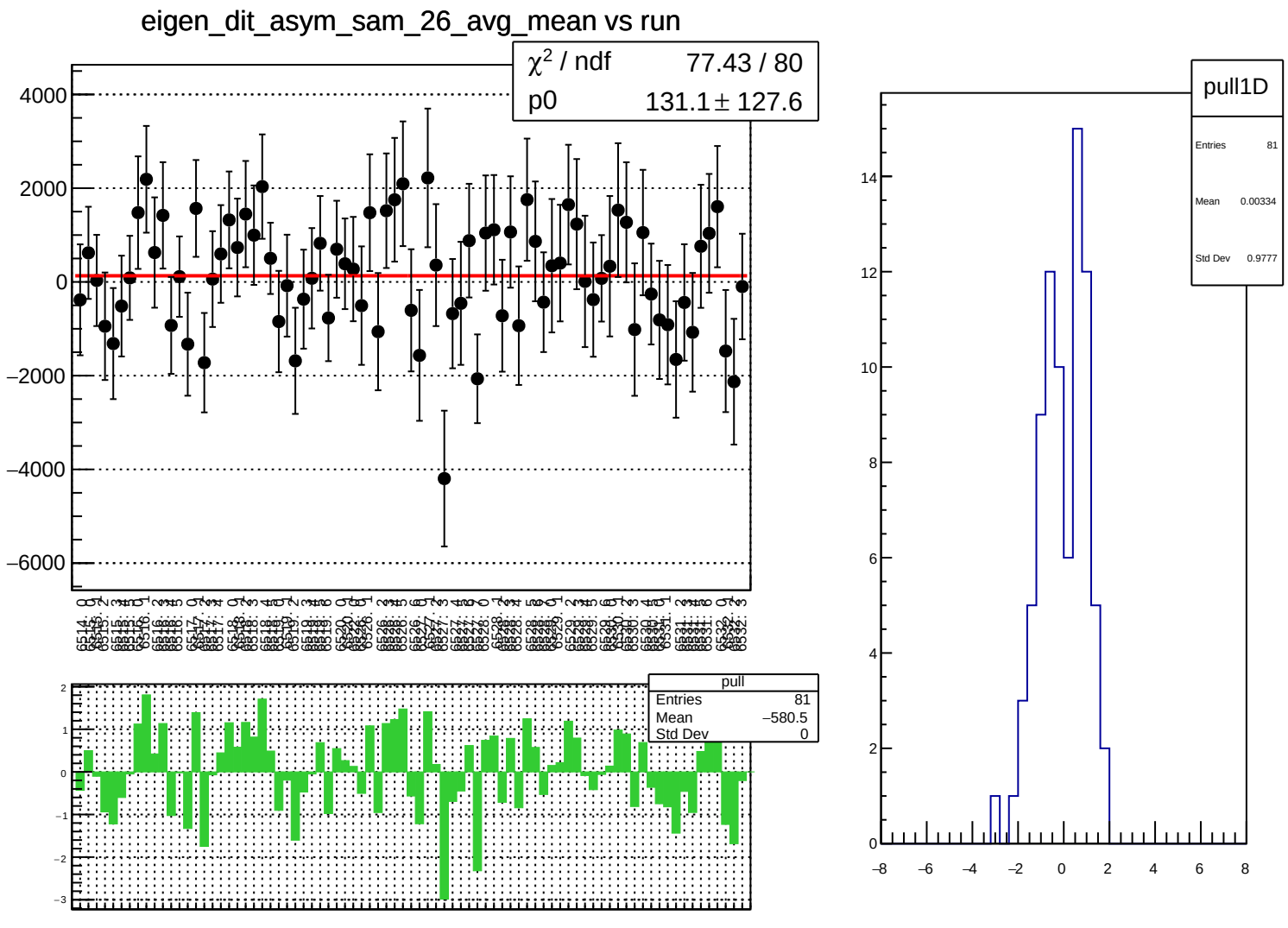

pull1D
Entries 81
Mean 0.003339
Std Dev 0.9777
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

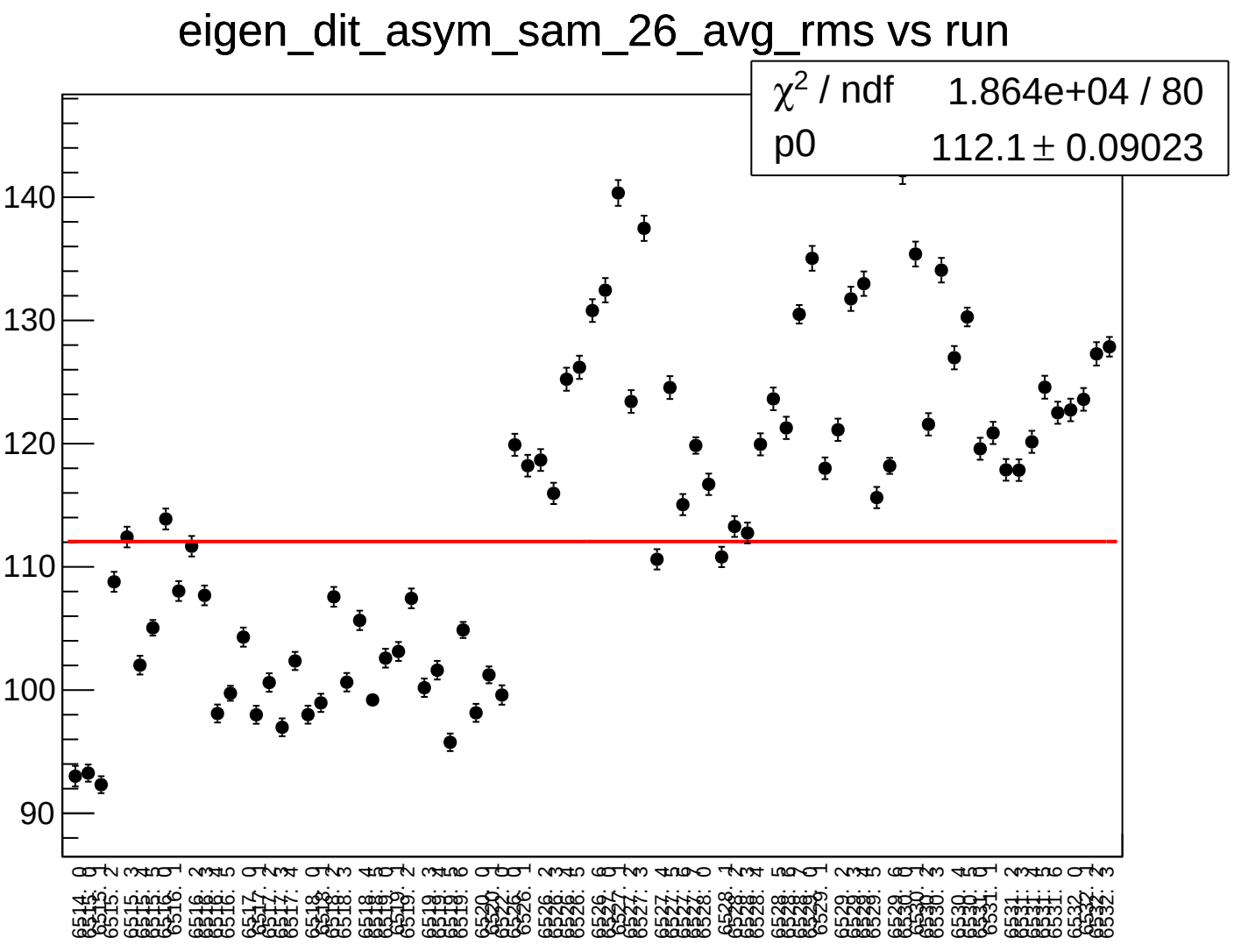

dit_asym_sam_26_avg_rms vs run
χ^2 / ndf 1.863e+04 / 80
p0 112.1 ± 0.09023
140
130
120
110
100
90

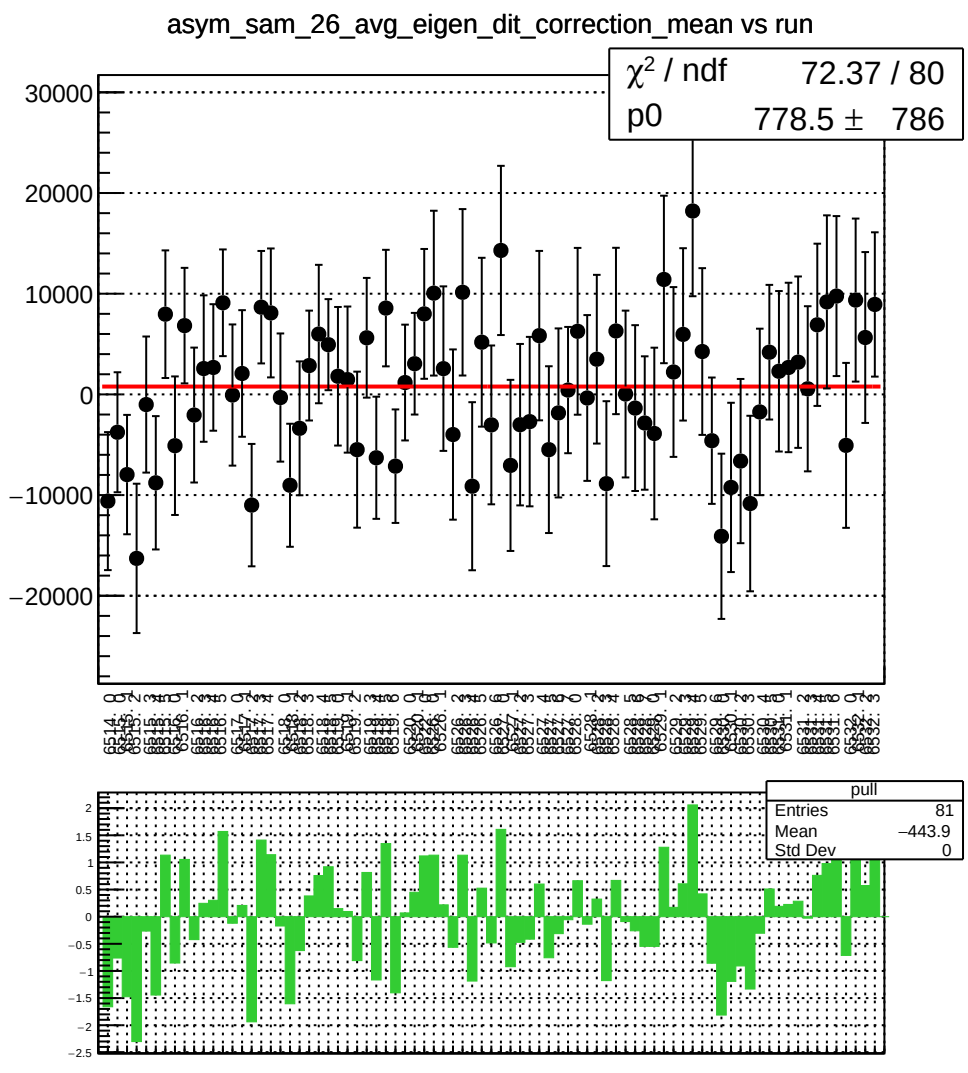

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 72.37 / 80
p0 778.5 ± 786
30000
20000
10000
0
−10000
−20000
pull
Entries 81
Mean −443.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

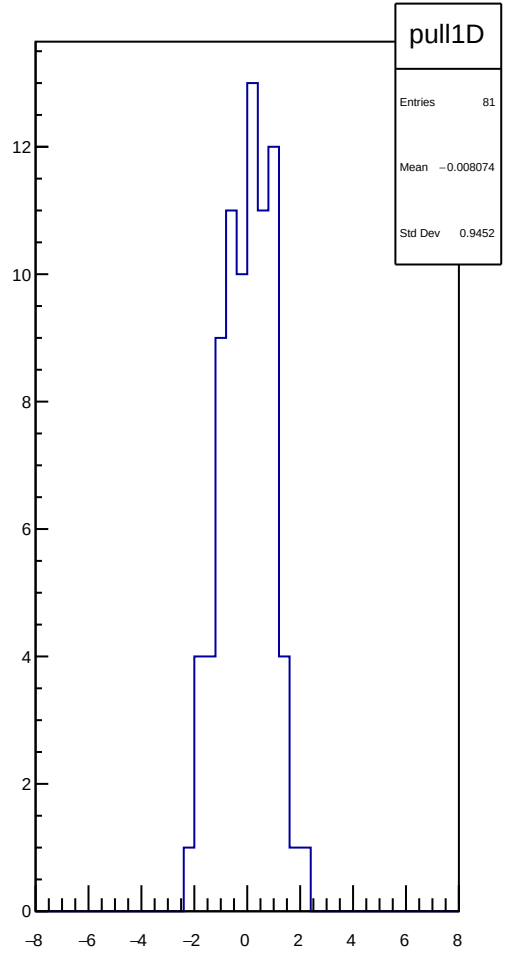

pull1D
Entries 81
Mean −0.008074
Std Dev 0.9452
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

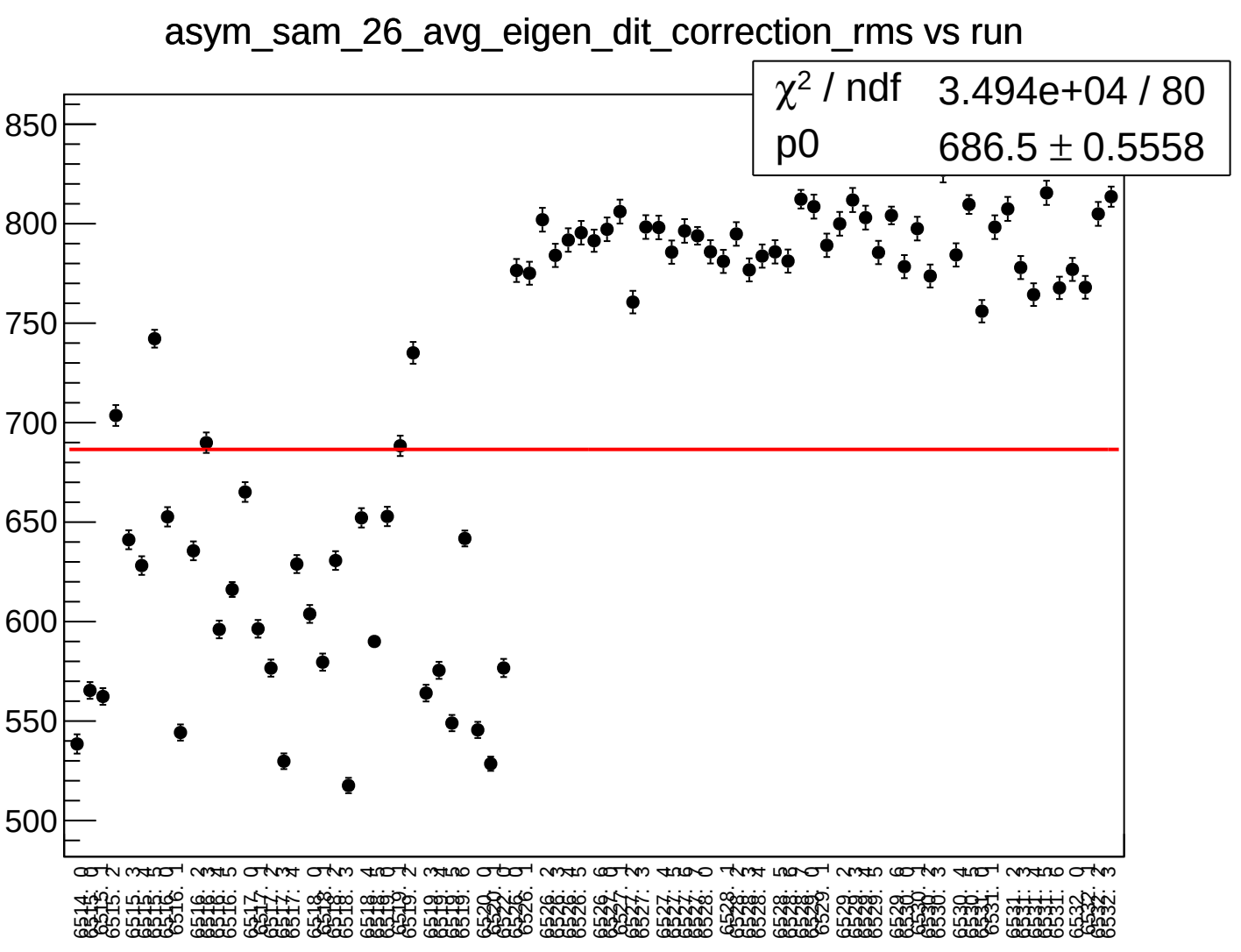

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 3.494e+04 / 80
p0 686.5 ± 0.5558
850
800
750
700
650
600
550
500

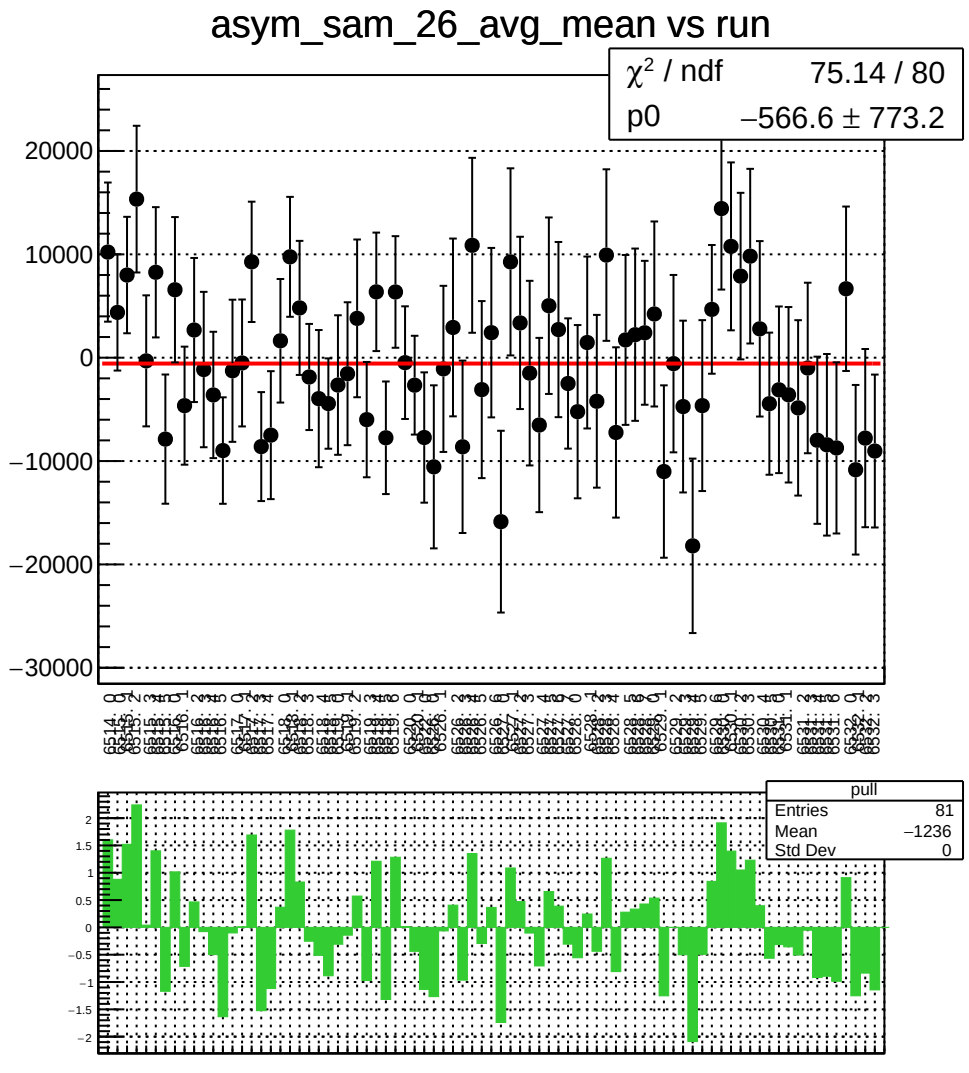

eigen_dit_asym_sam_26_avg_mean vs run
χ^2 / ndf 77.43 / 80
p0 131.1 ± 127.6
4000
2000
0
−2000
−4000
−6000
pull
Entries 81
Mean −580.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 81
Mean 0.00334
Std Dev 0.9777
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

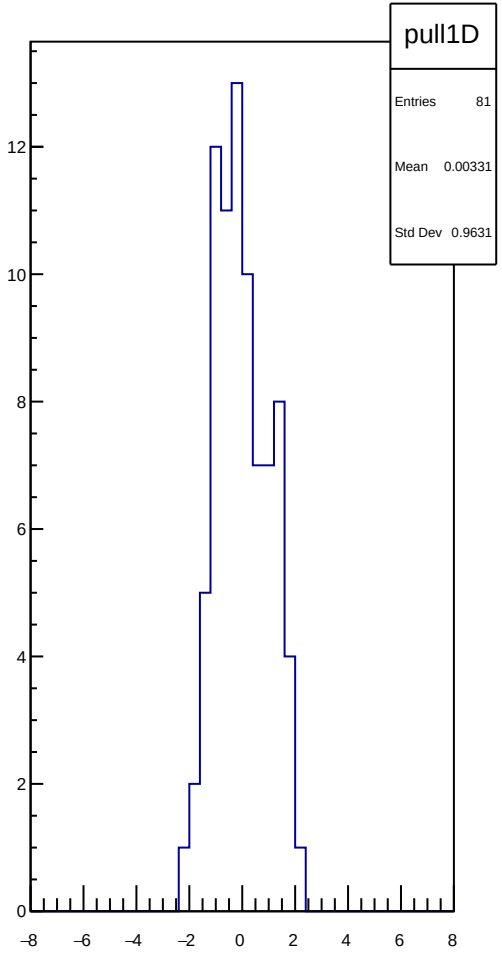

eigen_dit_asym_sam_26_avg_rms vs run
χ² / ndf 1.864e+04 / 80
p0 112.1 ± 0.09023
140
130
120
110
100
90

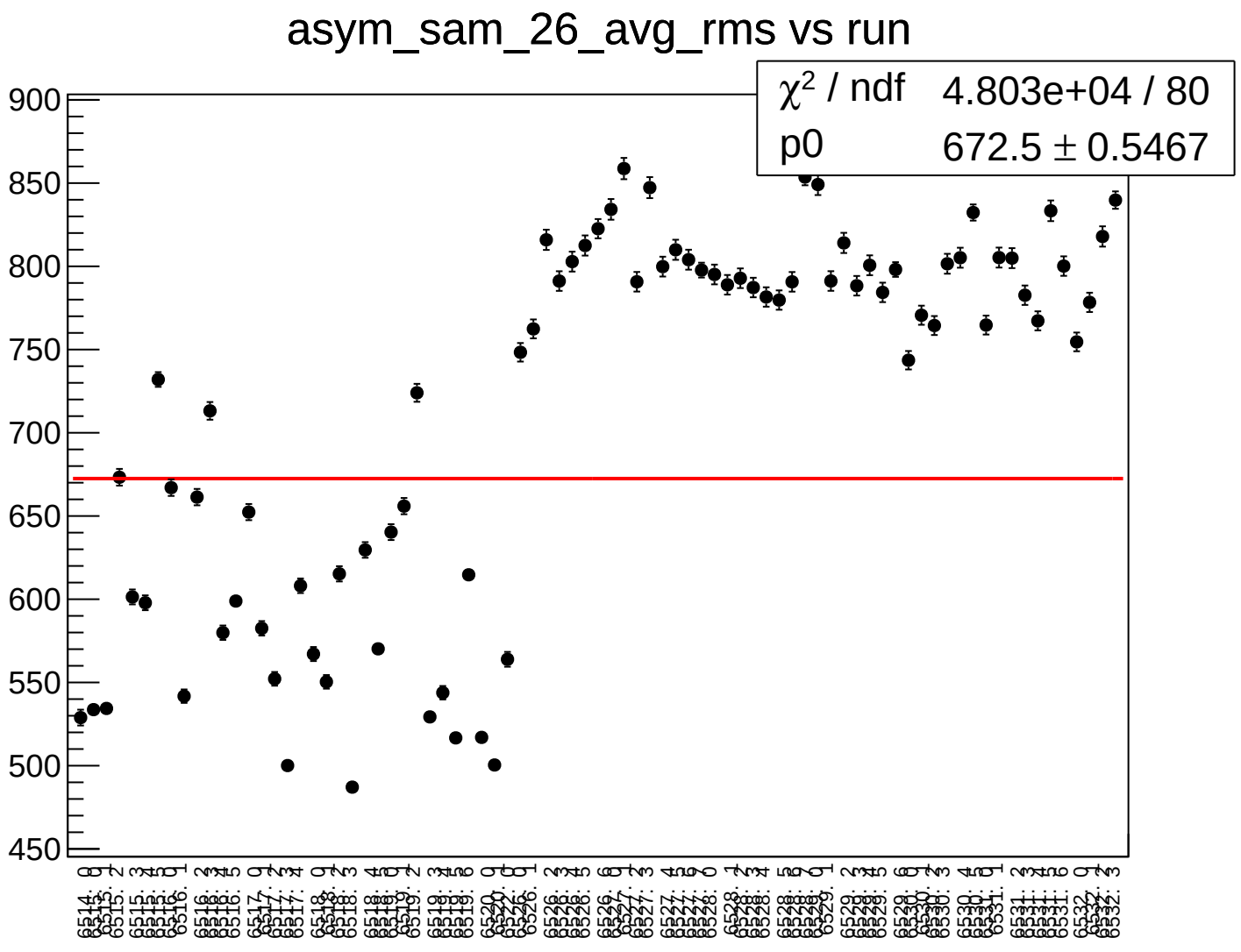

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 72.37 / 80
p0 778.5 ± 786
30000
20000
10000
0
−10000
−20000
pull
Entries 81
Mean −443.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

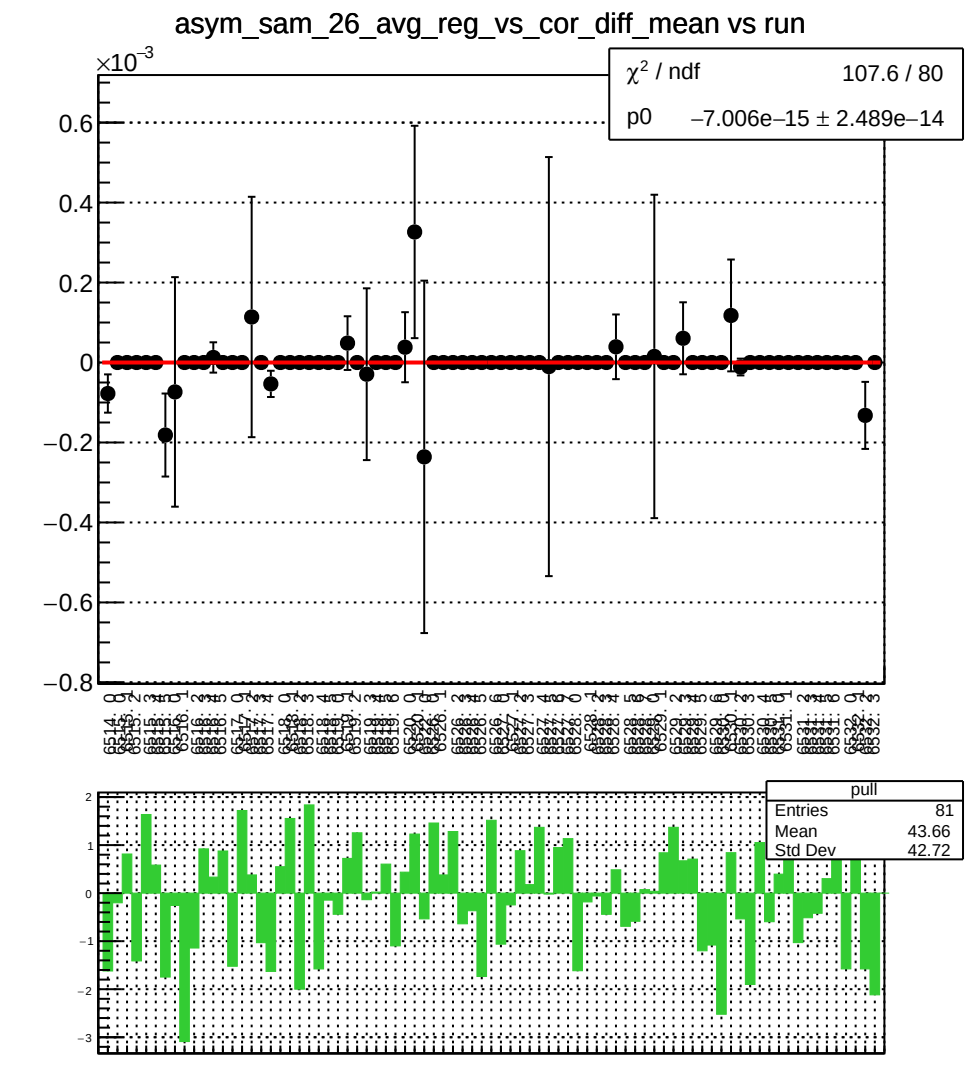

pull1D
Entries 81
Mean −0.008074
Std Dev 0.9452
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

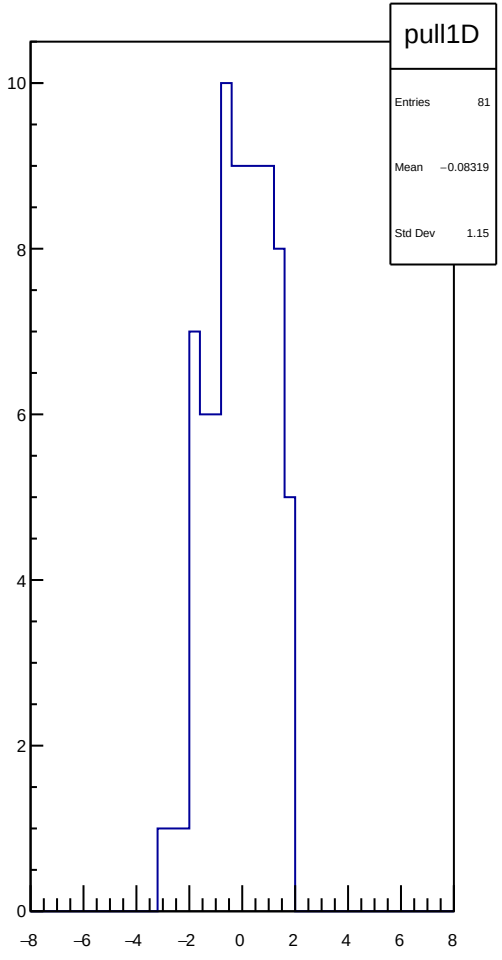

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.494e+04 / 80
p0 686.5 ± 0.5558
850
800
750
700
650
600
550
500

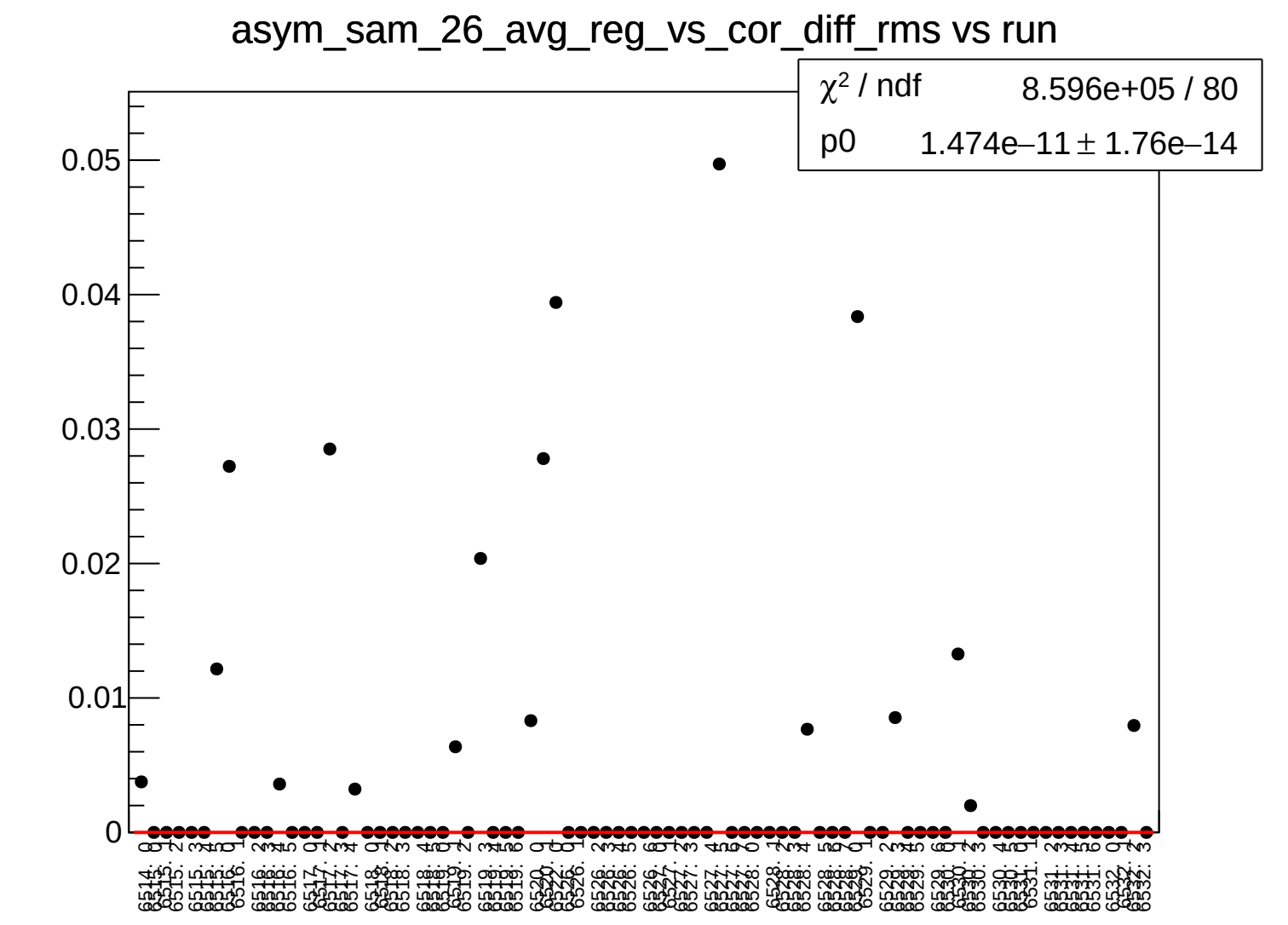

asym_sam_26_avg_mean vs run
χ² / ndf 75.14 / 80
p0 −566.6 ± 773.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean −1236
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

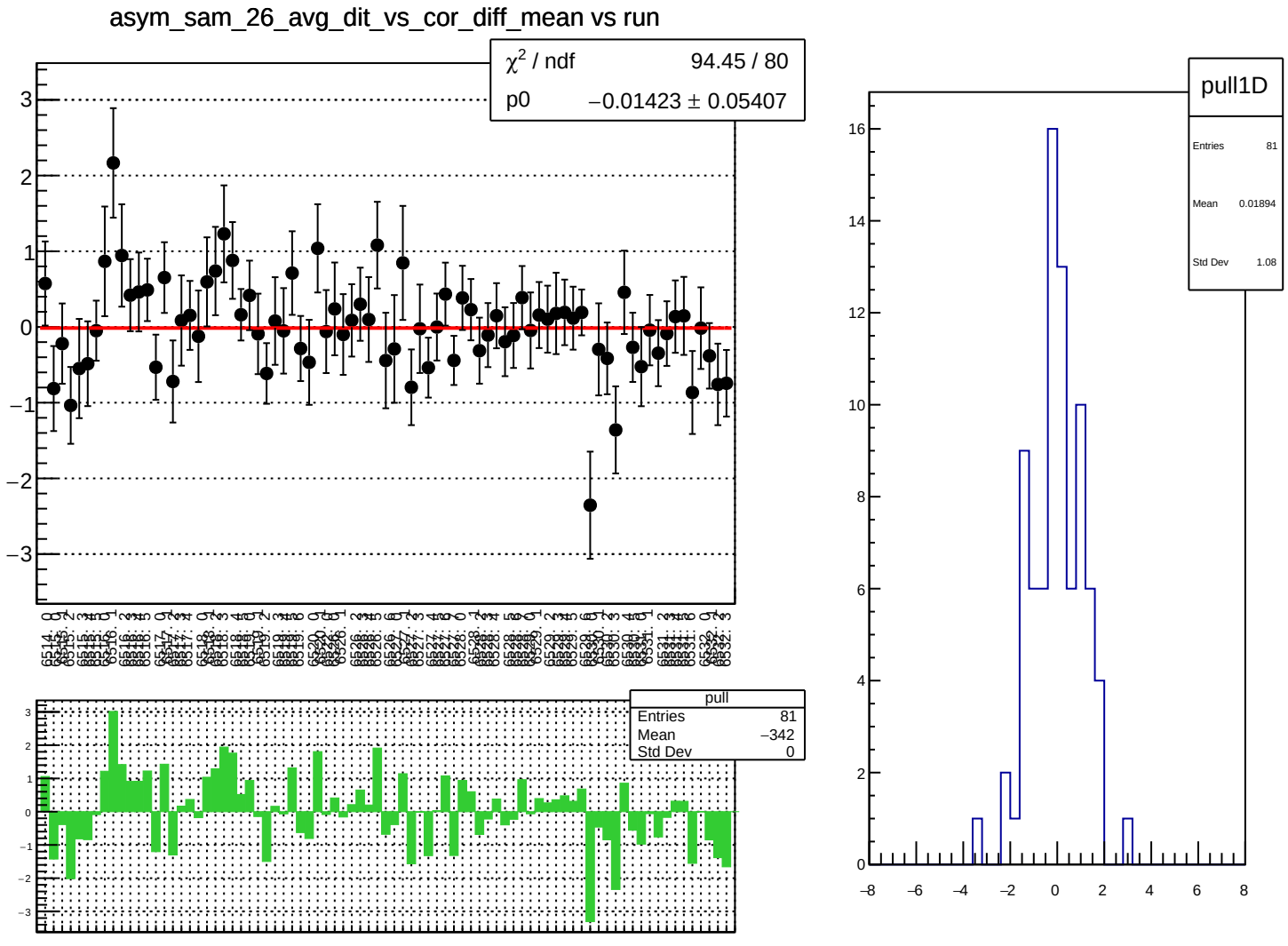

pull1D
Entries 81
Mean 0.00331
Std Dev 0.9631
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

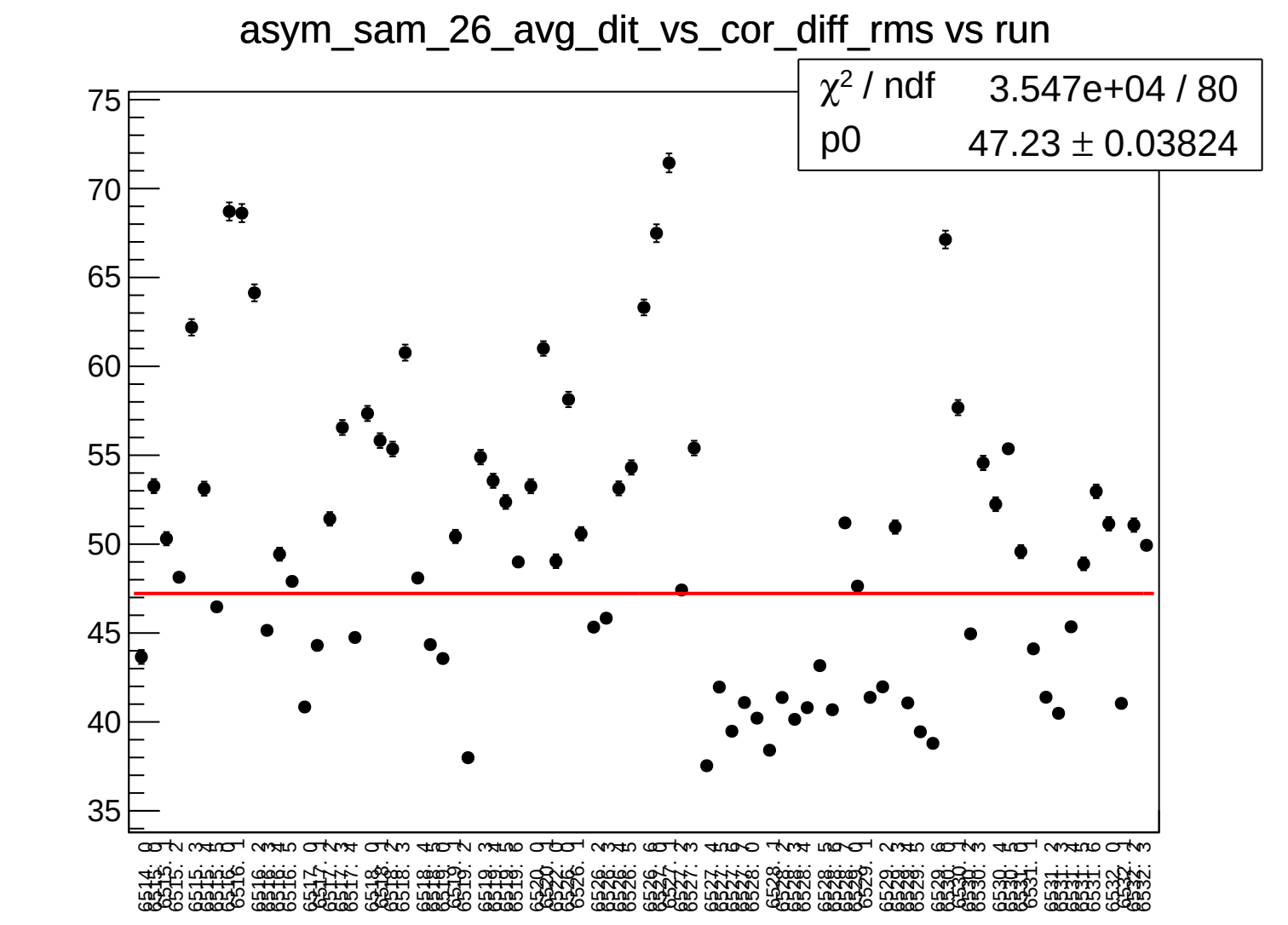

asym_sam_26_avg_rms vs run
χ² / ndf 4.803e+04 / 80
p0 672.5 ± 0.5467
900
850
800
750
700
650
600
550
500
450

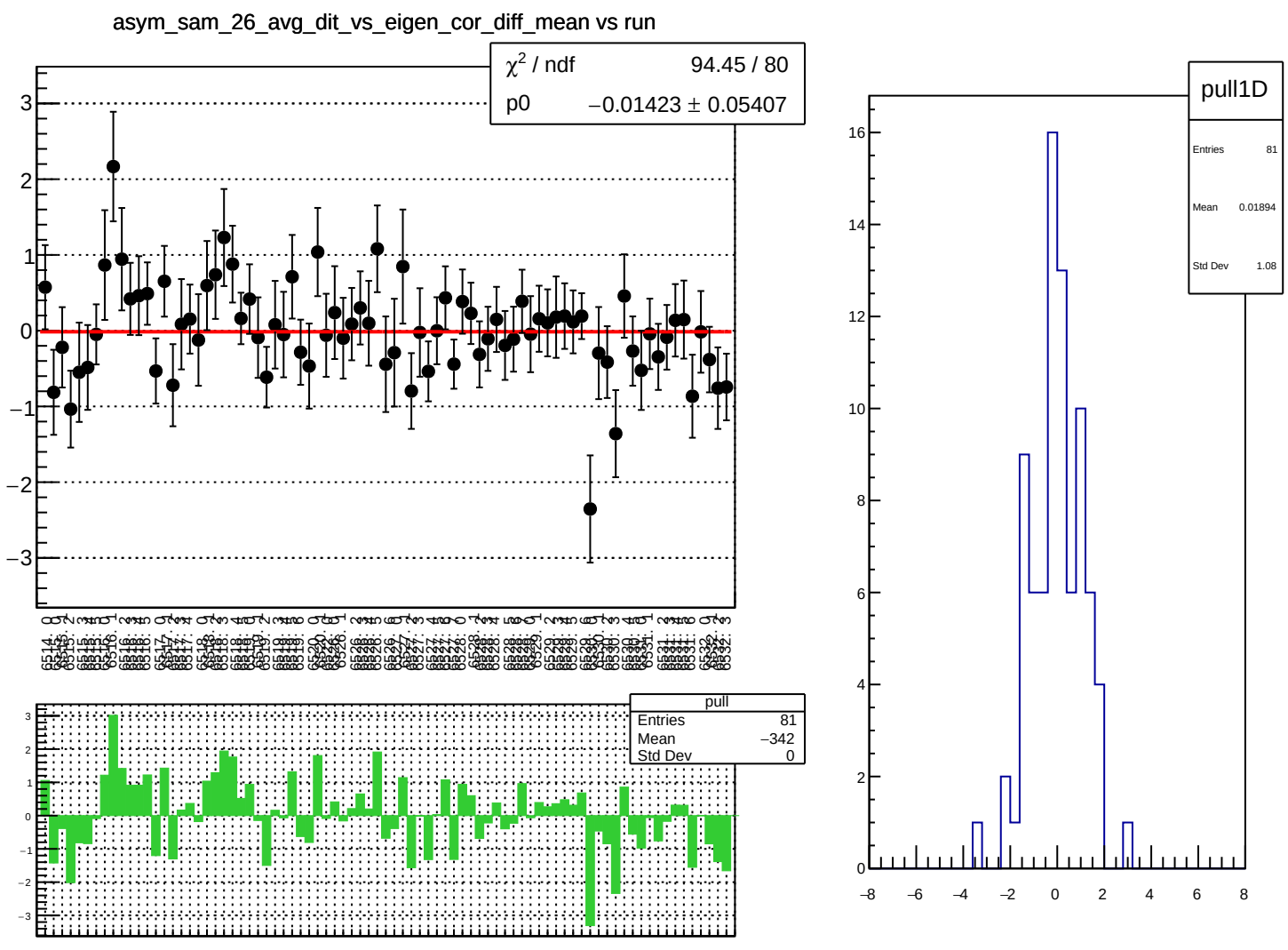

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 107.6 / 80
p0 −7.006e−15 ± 2.489e−14
pull
Entries 81
Mean 43.66
Std Dev 42.72

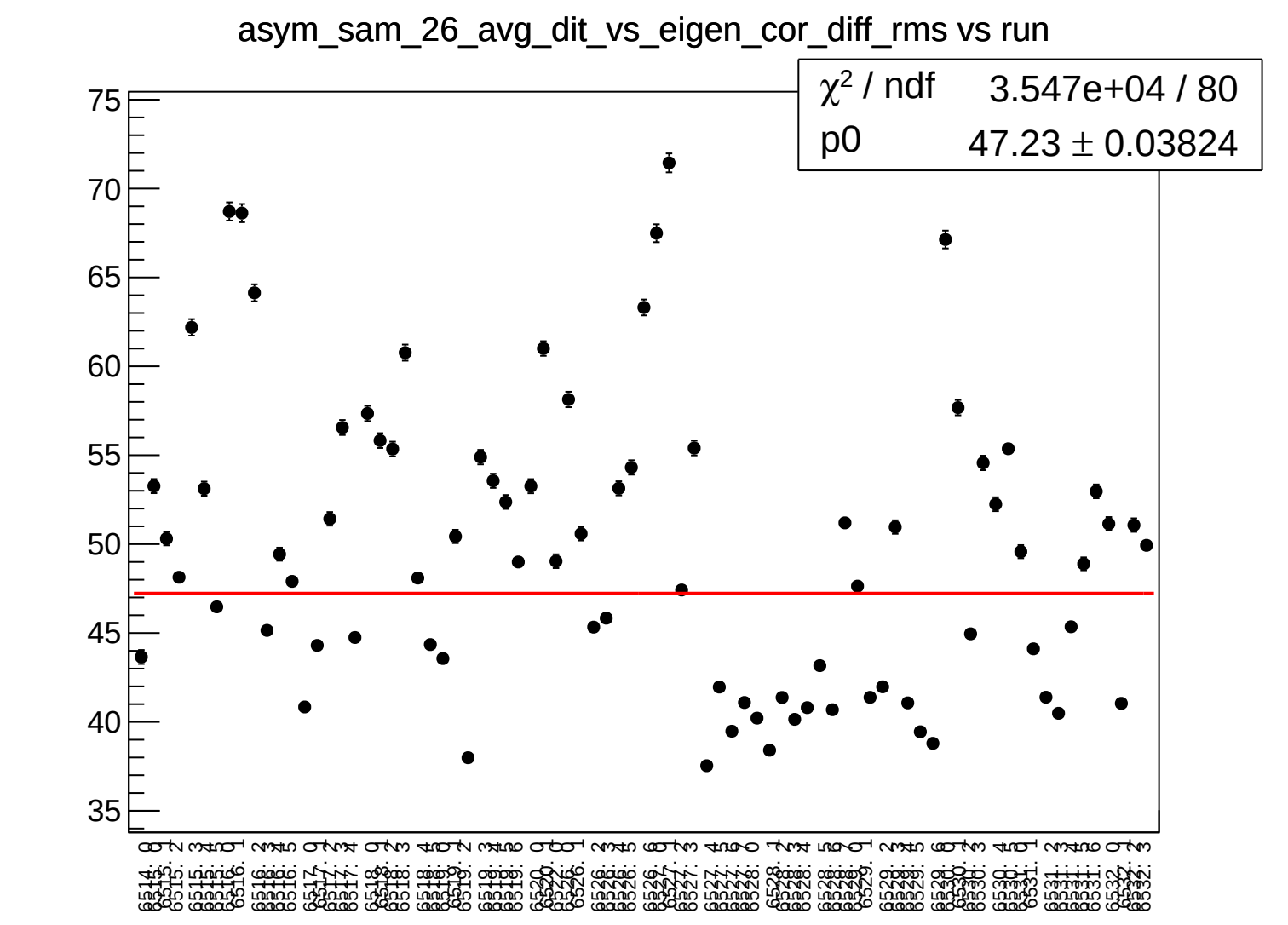

pull1D
Entries 81
Mean −0.08319
Std Dev 1.15

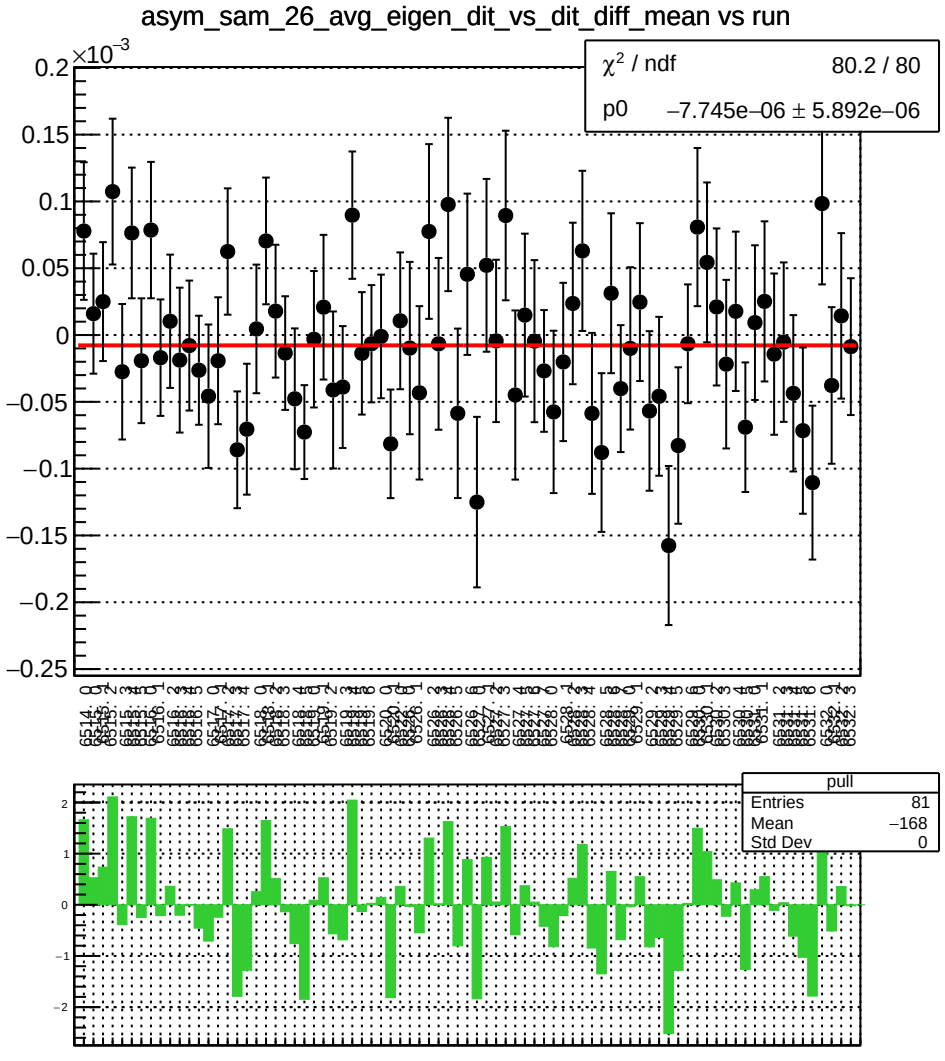

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.596e+05 / 80
p0 1.474e−11 ± 1.76e−14
0.05
0.04
0.03
0.02
0.01
0

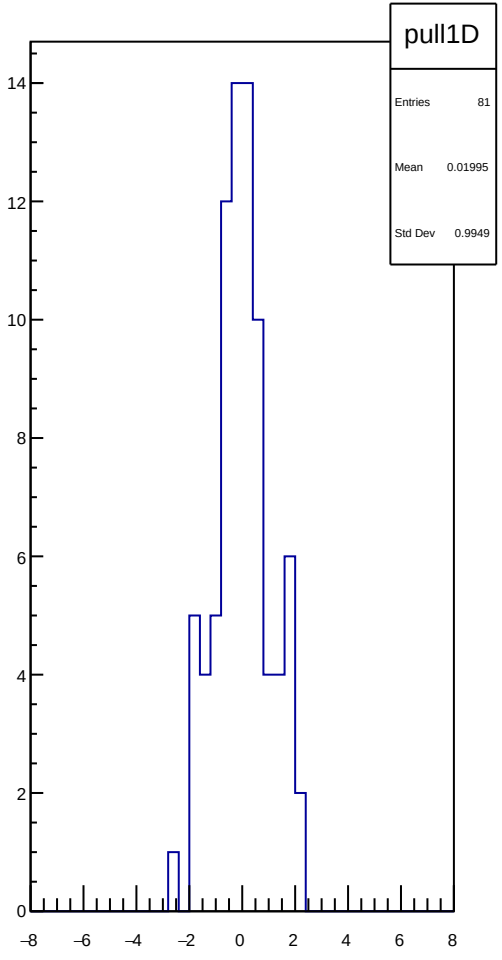

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 94.45 / 80
p0 −0.01423 ± 0.05407
pull
Entries 81
Mean −342
Std Dev 0
pull1D
Entries 81
Mean 0.01894
Std Dev 1.08

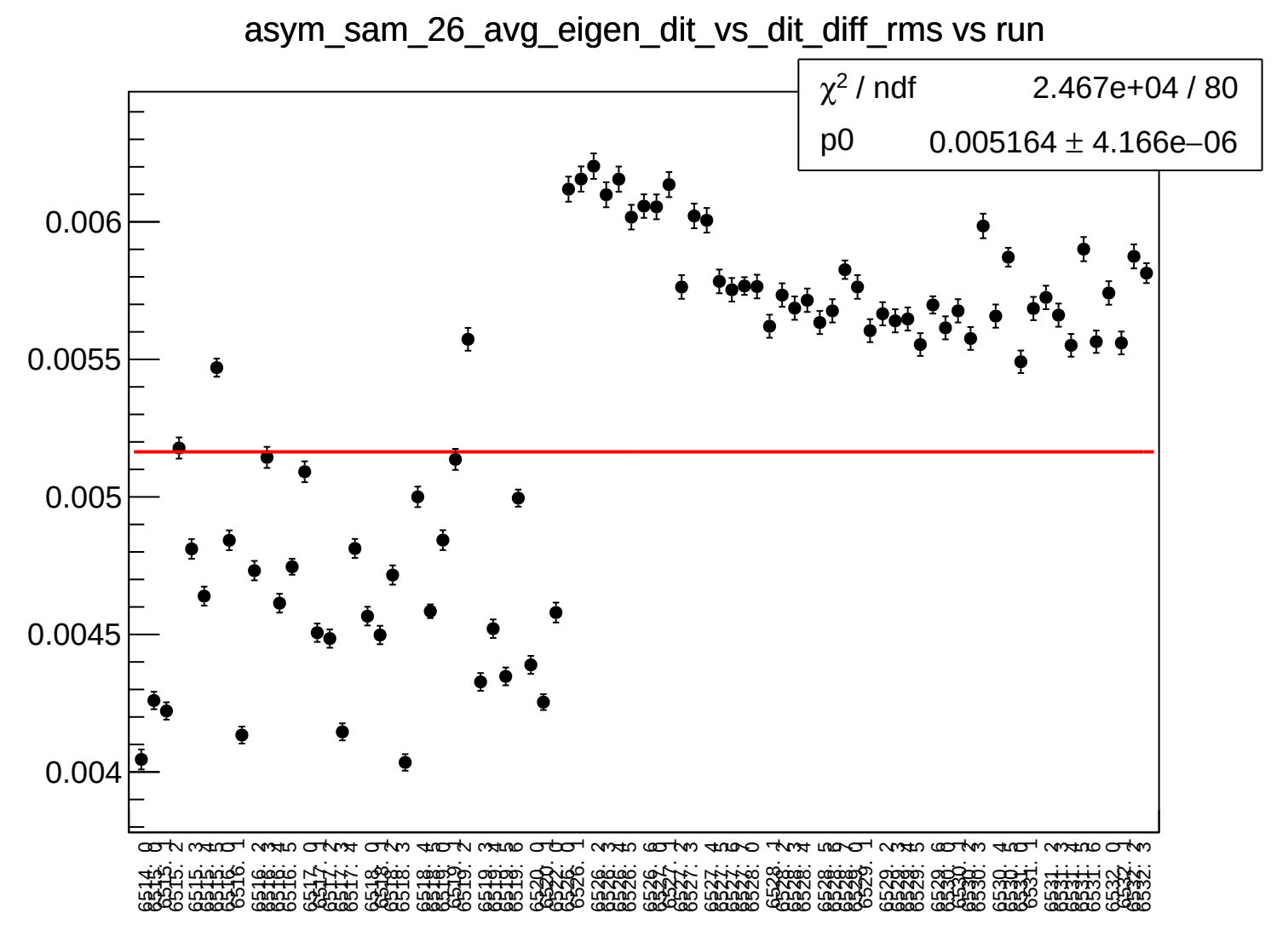

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.547e+04 / 80
p0 47.23 ± 0.03824
75
70
65
60
55
50
45
40
35

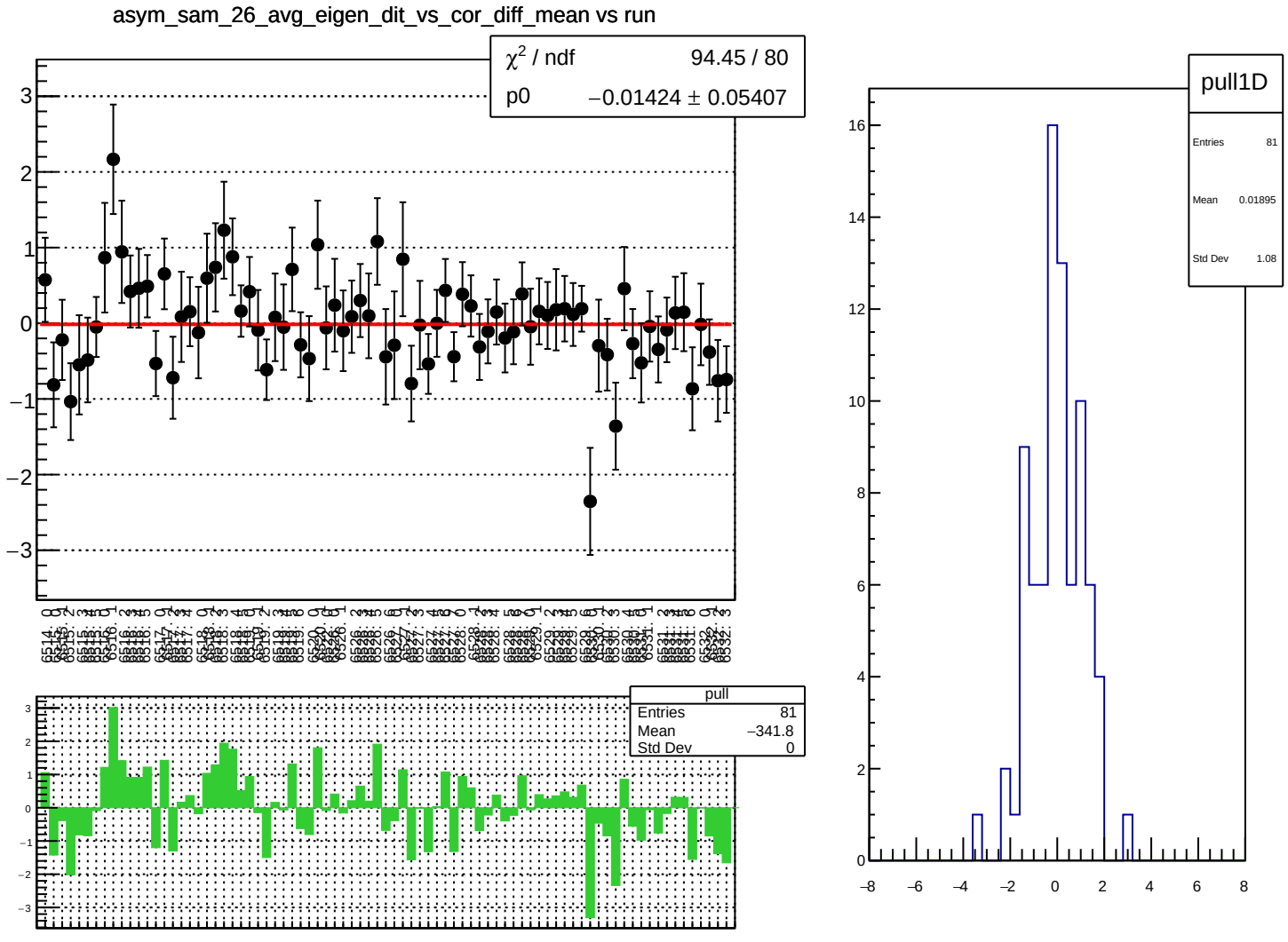

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.45 / 80
p0 −0.01423 ± 0.05407
pull
Entries 81
Mean −342
Std Dev 0
pull1D
Entries 81
Mean 0.01894
Std Dev 1.08

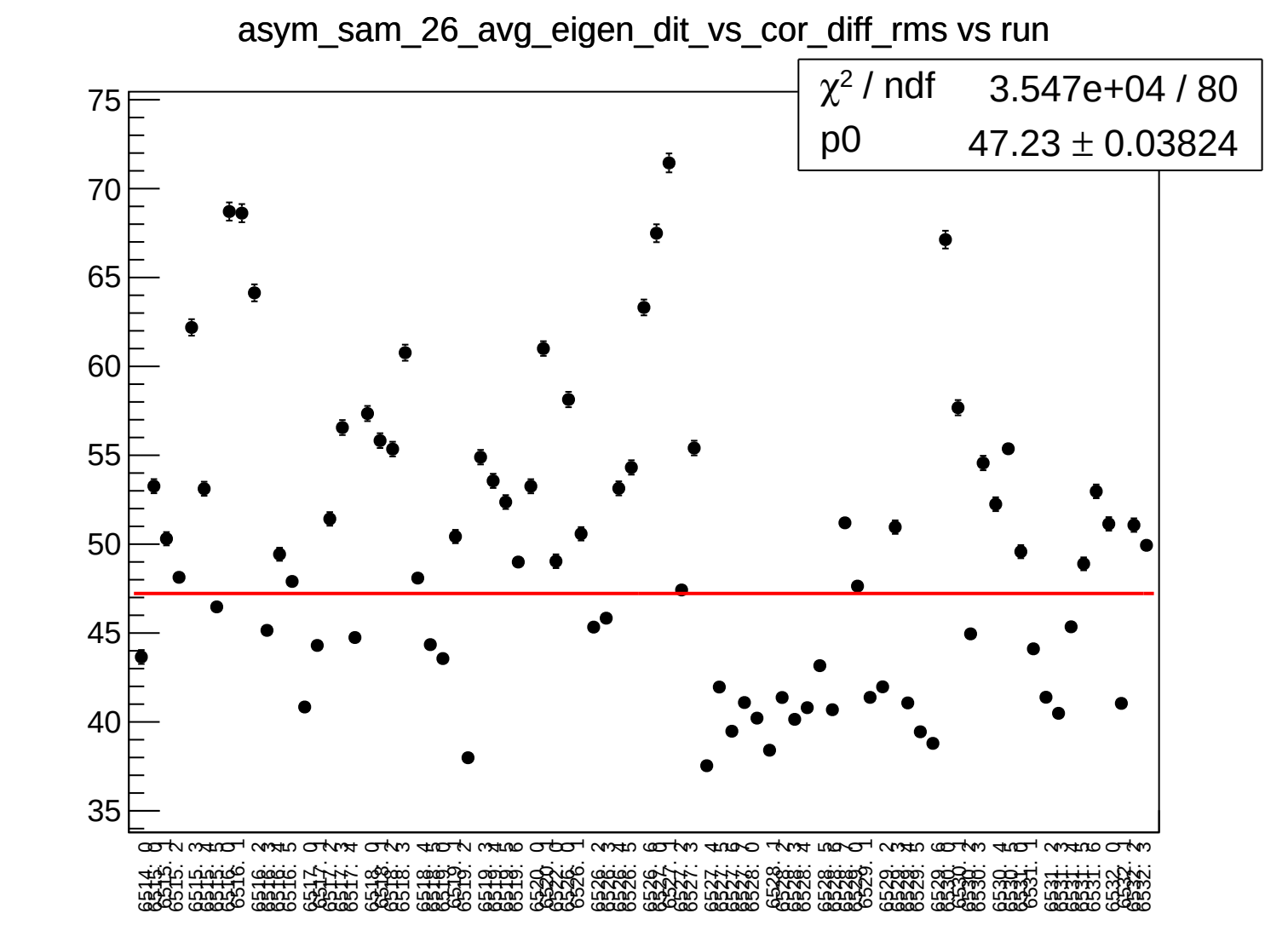

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.547e+04 / 80
p0 47.23 ± 0.03824
75
70
65
60
55
50
45
40
35

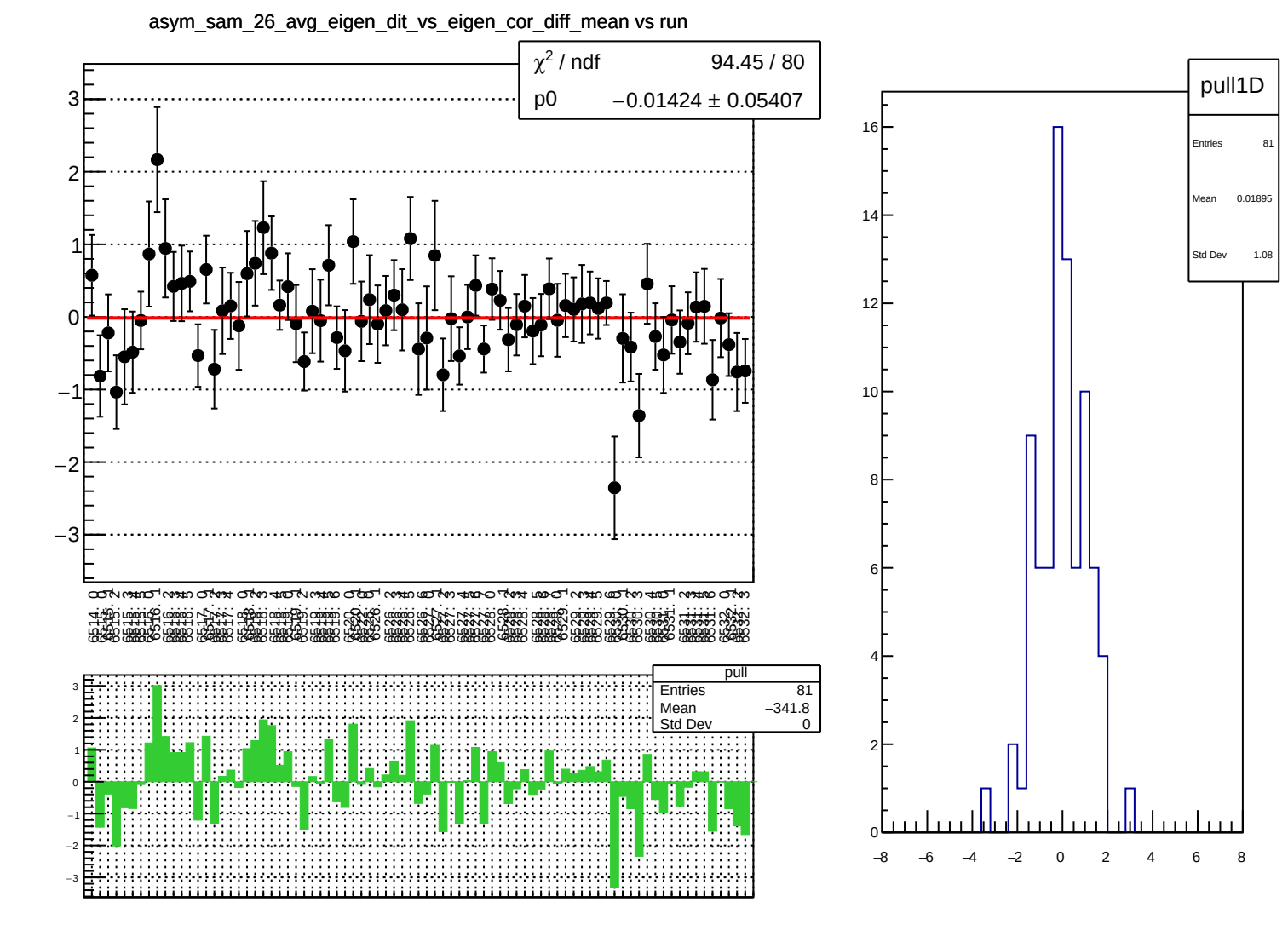

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 80.2 / 80
p0 −7.745e−06 ± 5.892e−06
pull
Entries 81
Mean −168
Std Dev 0

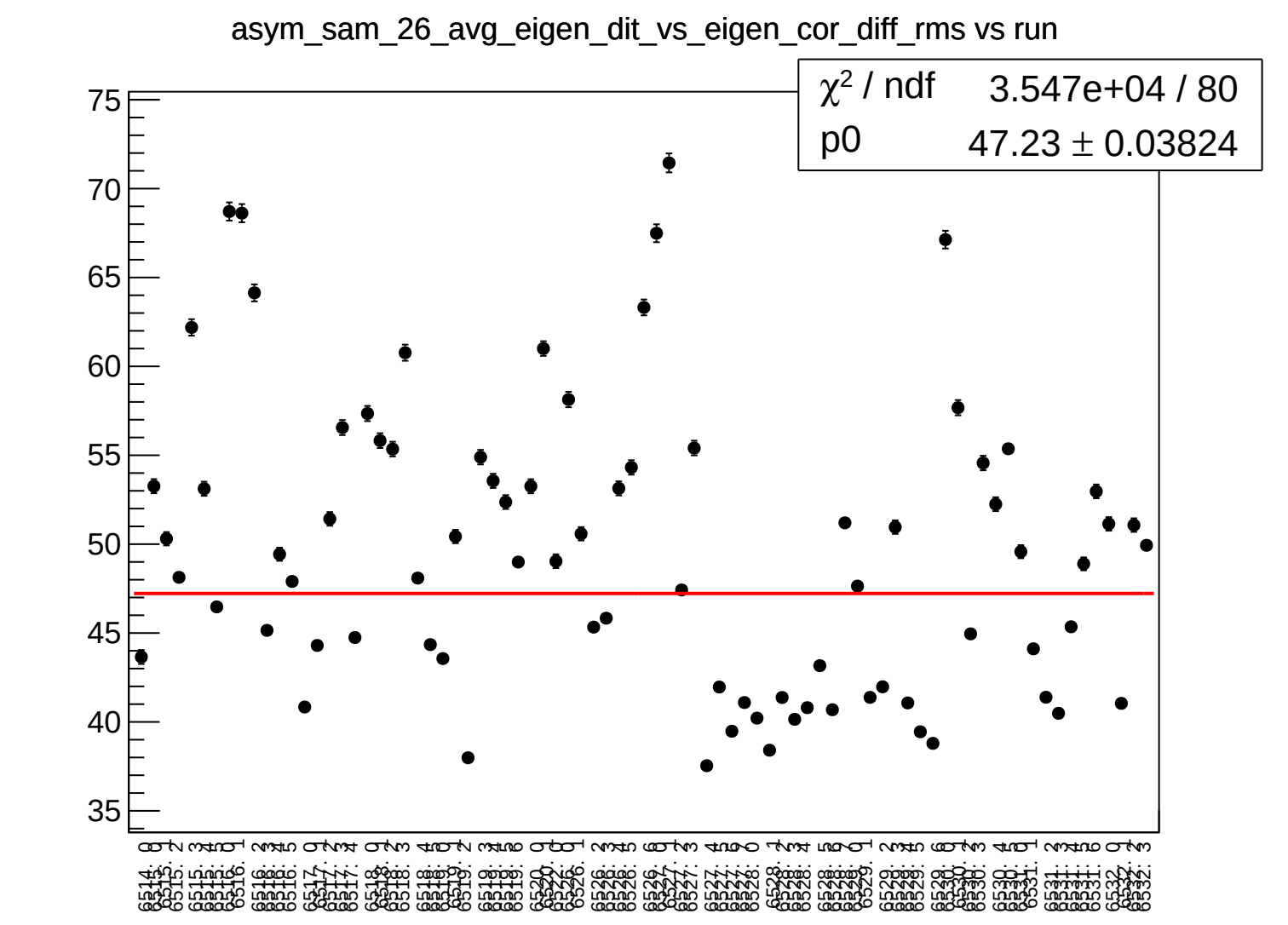

pull1D
Entries 81
Mean 0.01995
Std Dev 0.9949

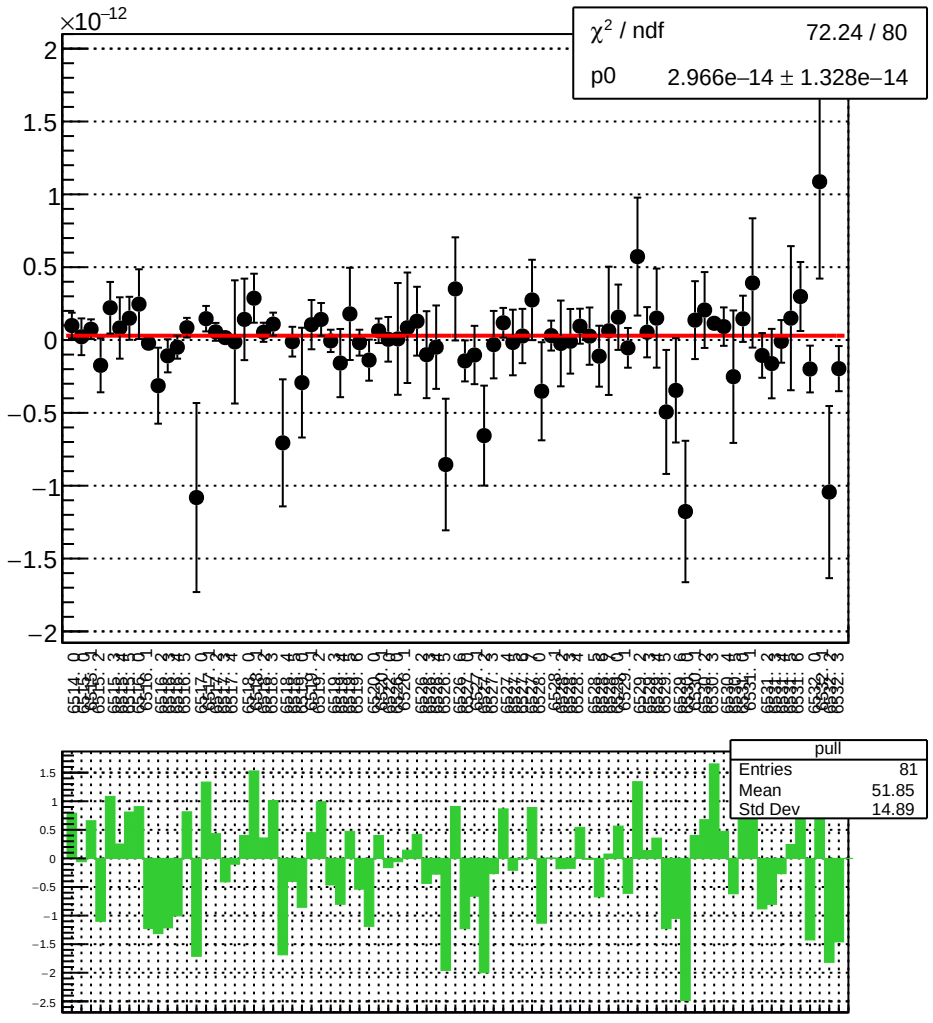

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.467e+04 / 80
p0 0.005164 ± 4.166e−06
0.006
0.0055
0.005
0.0045
0.004

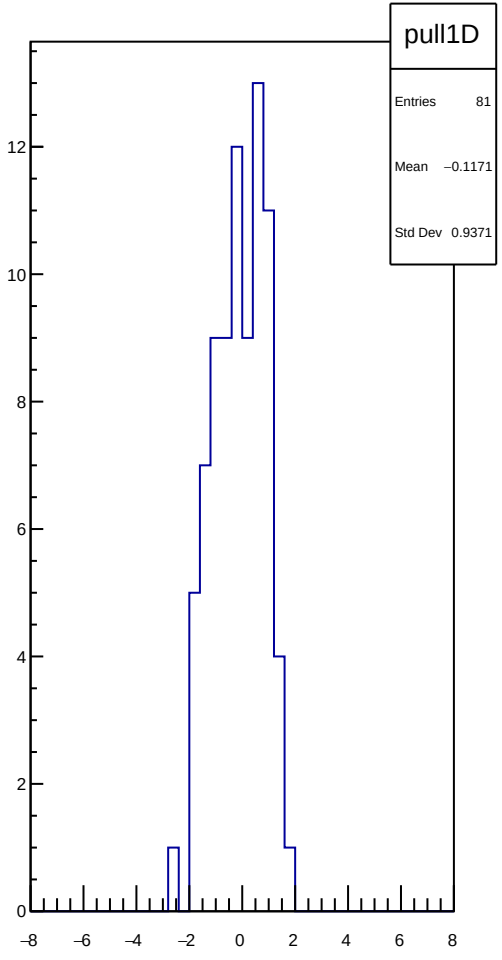

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.45 / 80
p0 −0.01424 ± 0.05407
pull
Entries 81
Mean −341.8
Std Dev 0
pull1D
Entries 81
Mean 0.01895
Std Dev 1.08

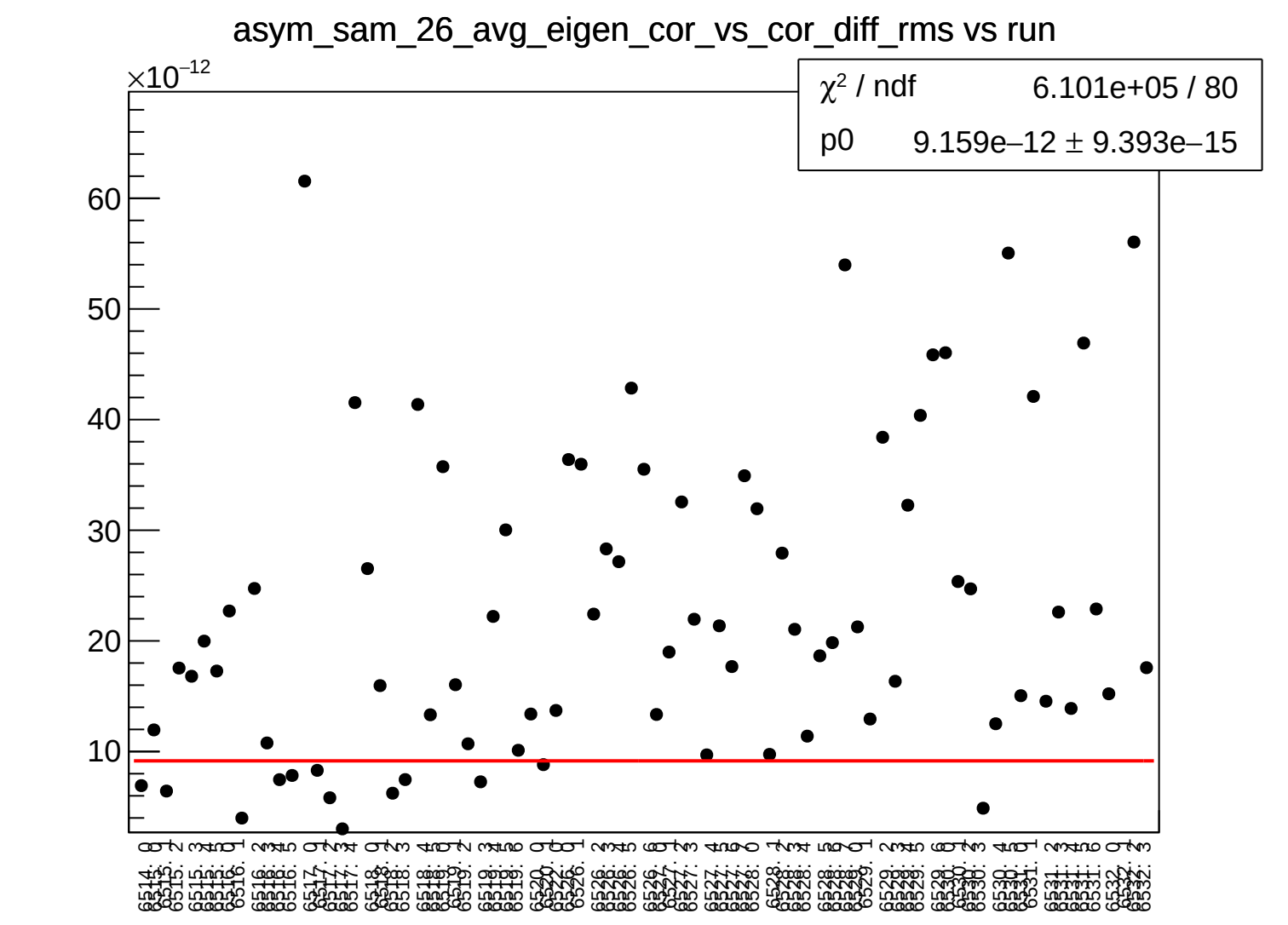

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.547e+04 / 80
p0 47.23 ± 0.03824
75
70
65
60
55
50
45
40
35

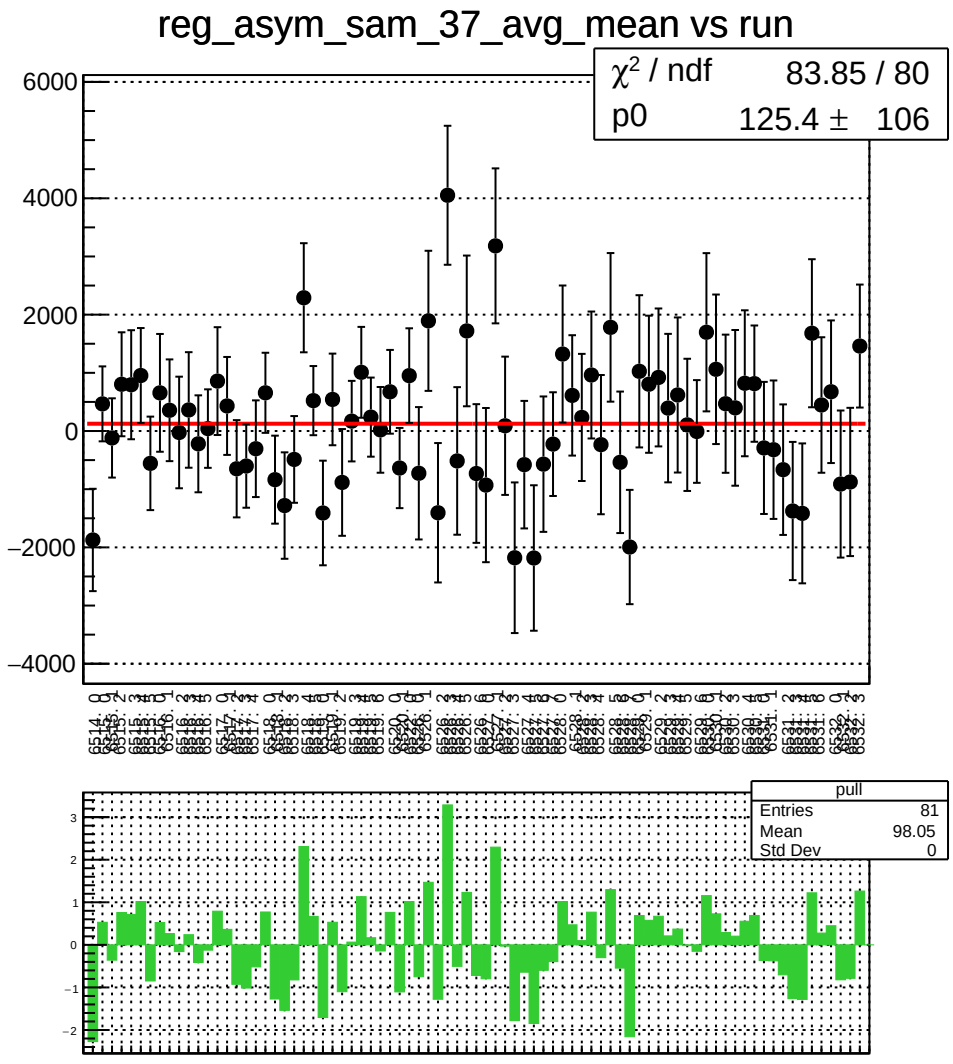

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.45 / 80
p0 −0.01424 ± 0.05407
pull
Entries 81
Mean −341.8
Std Dev 0
pull1D
Entries 81
Mean 0.01895
Std Dev 1.08

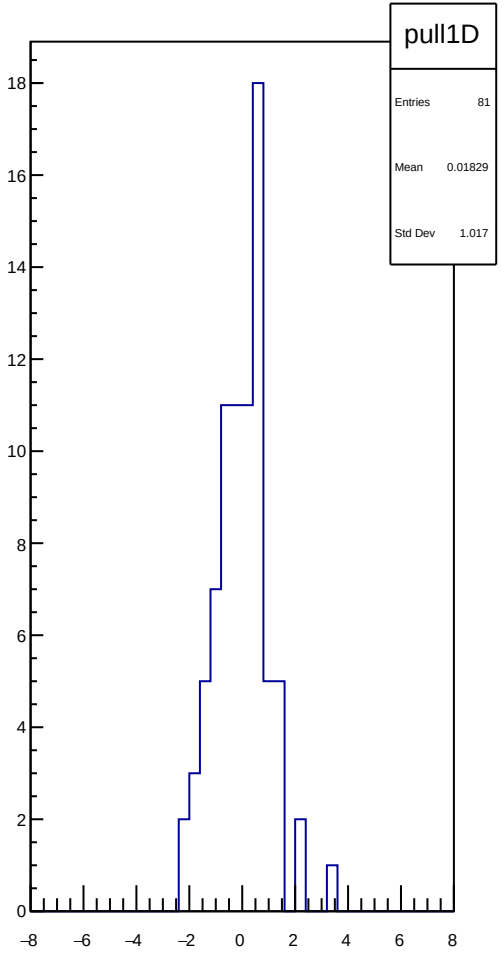

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.547e+04 / 80
p0 47.23 ± 0.03824
75
70
65
60
55
50
45
40
35

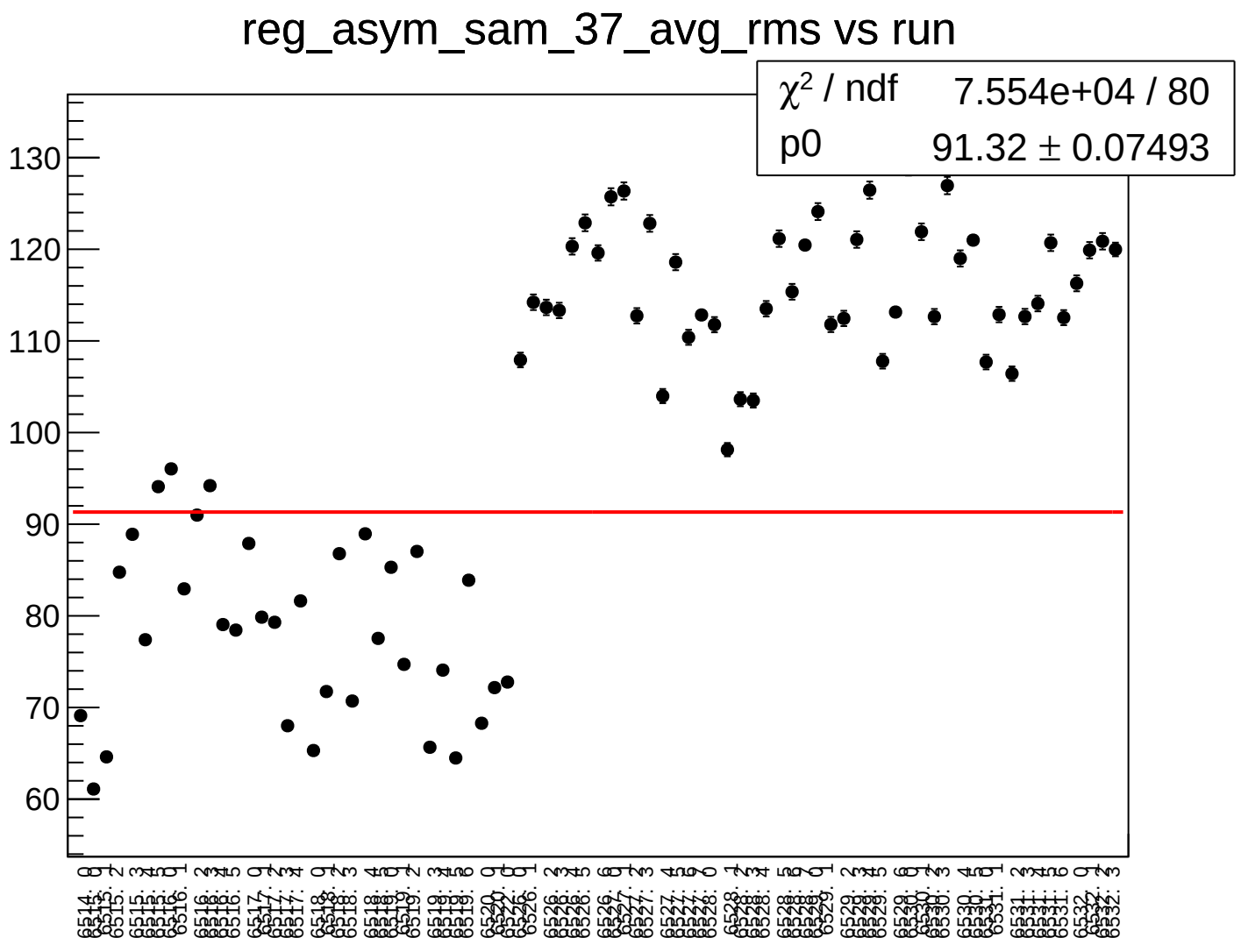

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.24 / 80
p0 2.966e−14 ± 1.328e−14
pull
Entries 81
Mean 51.85
Std Dev 14.89

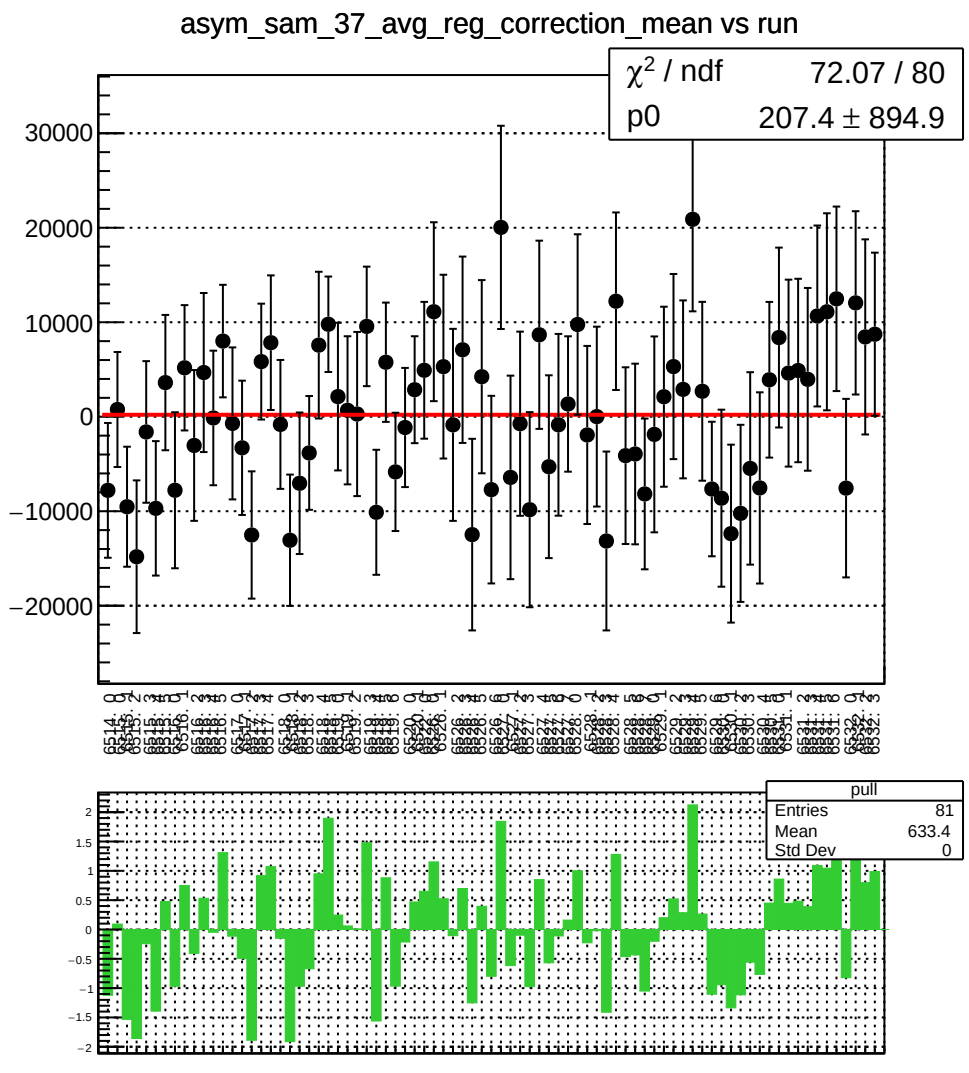

pull1D
Entries 81
Mean −0.1171
Std Dev 0.9371

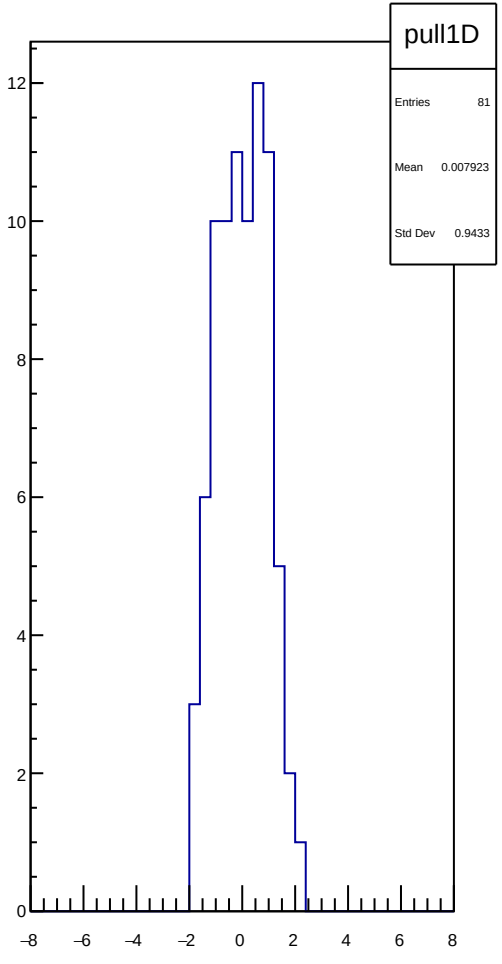

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.101e+05 / 80
p0 9.159e−12 ± 9.393e−15
60
50
40
30
20
10

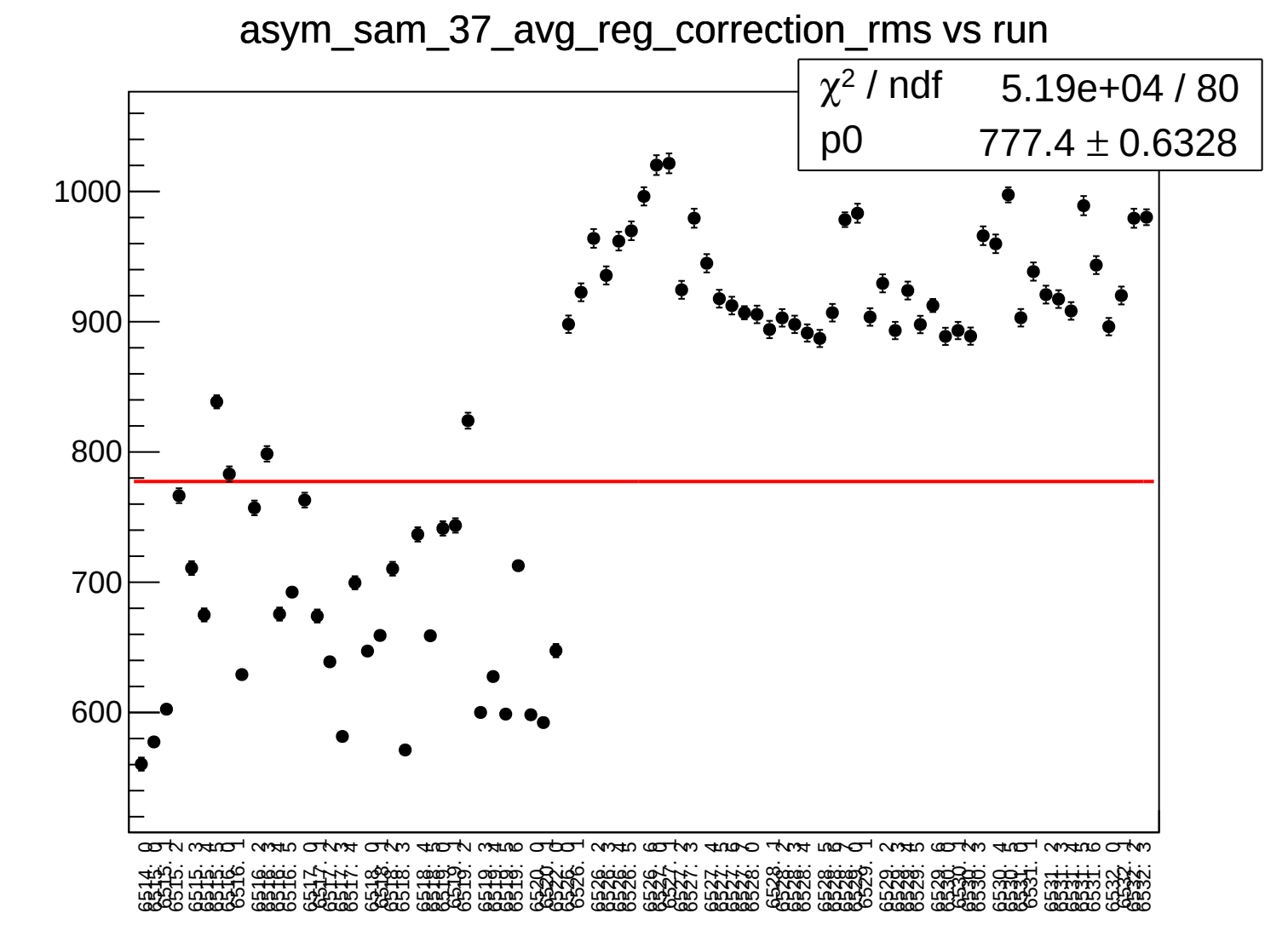

reg_asym_sam_37_avg_mean vs run
χ² / ndf 83.85 / 80
p0 125.4 ± 106
pull
Entries 81
Mean 98.05
Std Dev 0

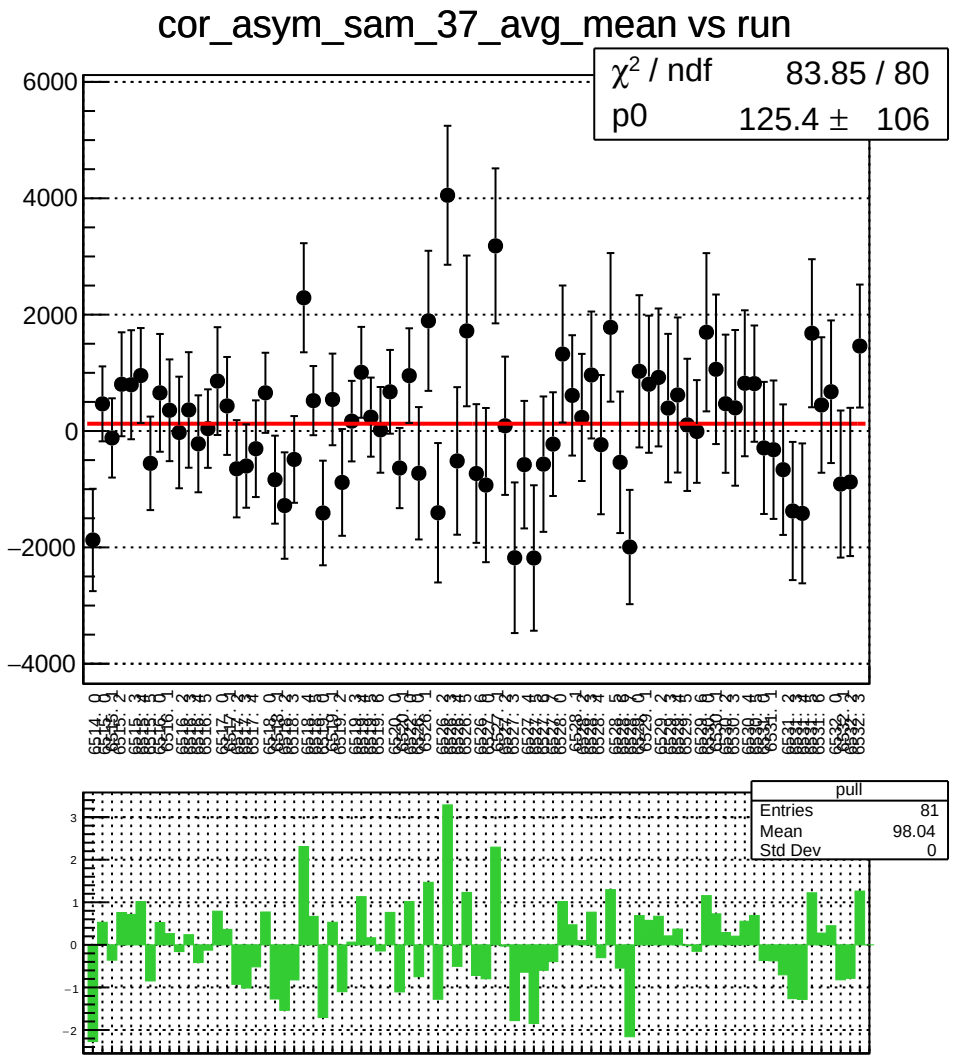

pull1D
Entries 81
Mean 0.01829
Std Dev 1.017

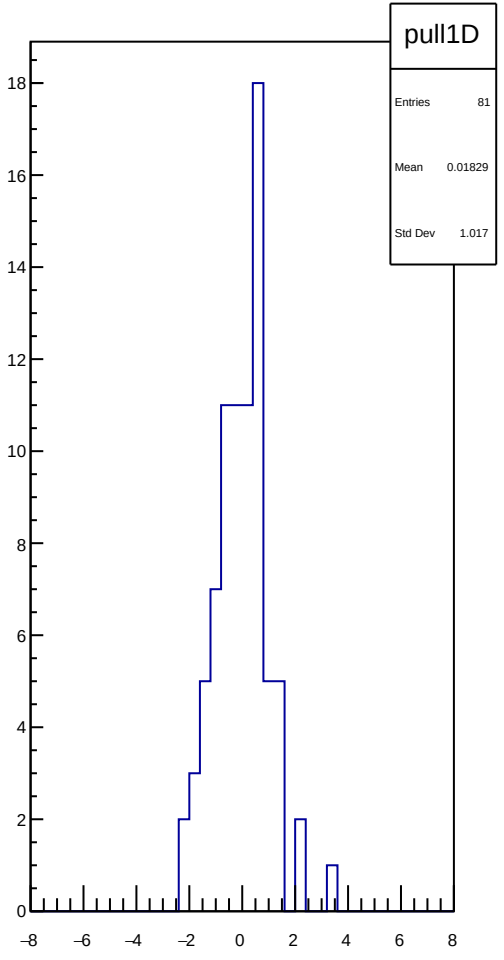

reg_asym_sam_37_avg_rms vs run
χ^2 / ndf 7.554e+04 / 80
p0 91.32 ± 0.07493
130
120
110
100
90
80
70
60

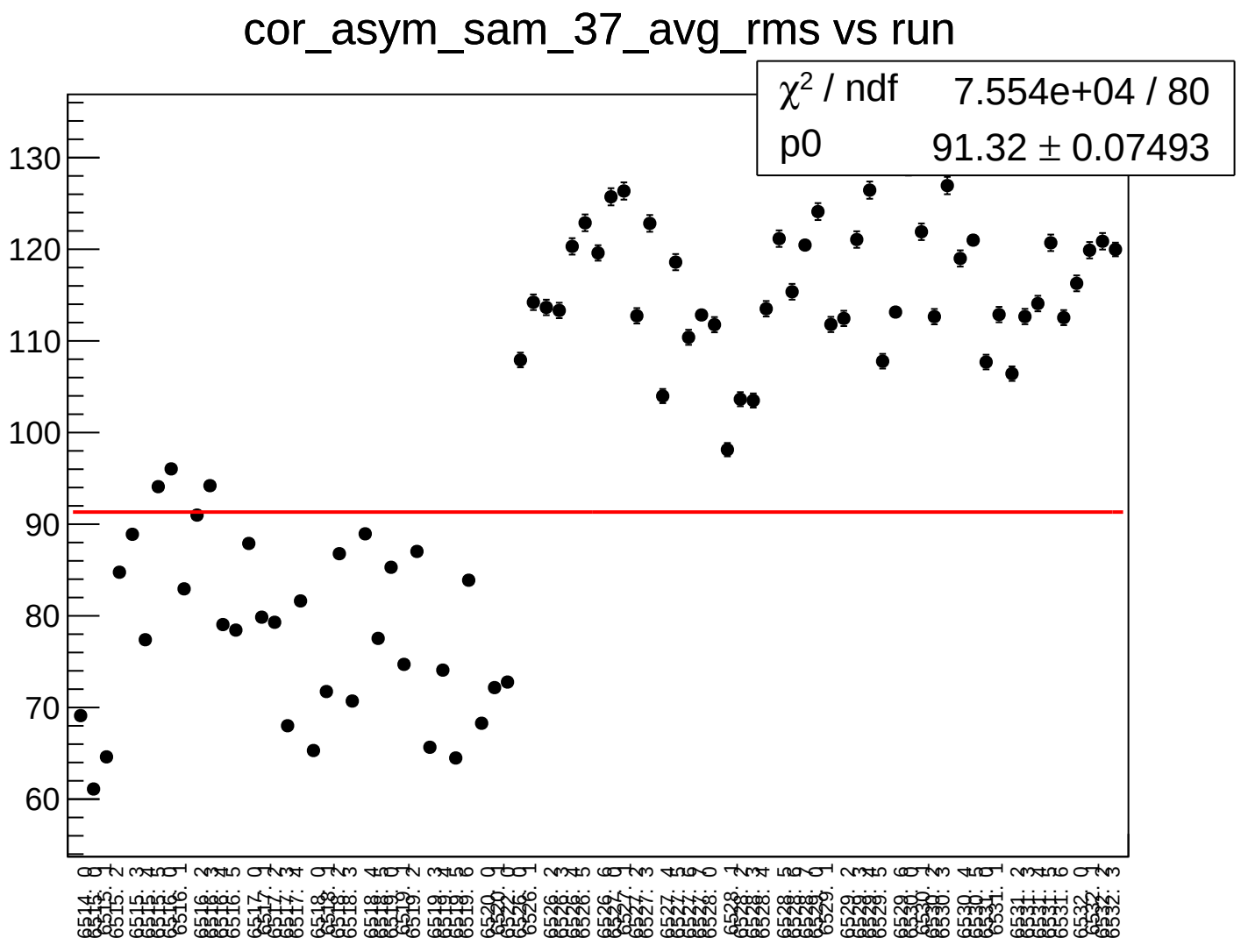

asym_sam_37_avg_reg_correction_mean vs run
χ² / ndf 72.07 / 80
p0 207.4 ± 894.9
30000
20000
10000
0
−10000
−20000
pull
Entries 81
Mean 633.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

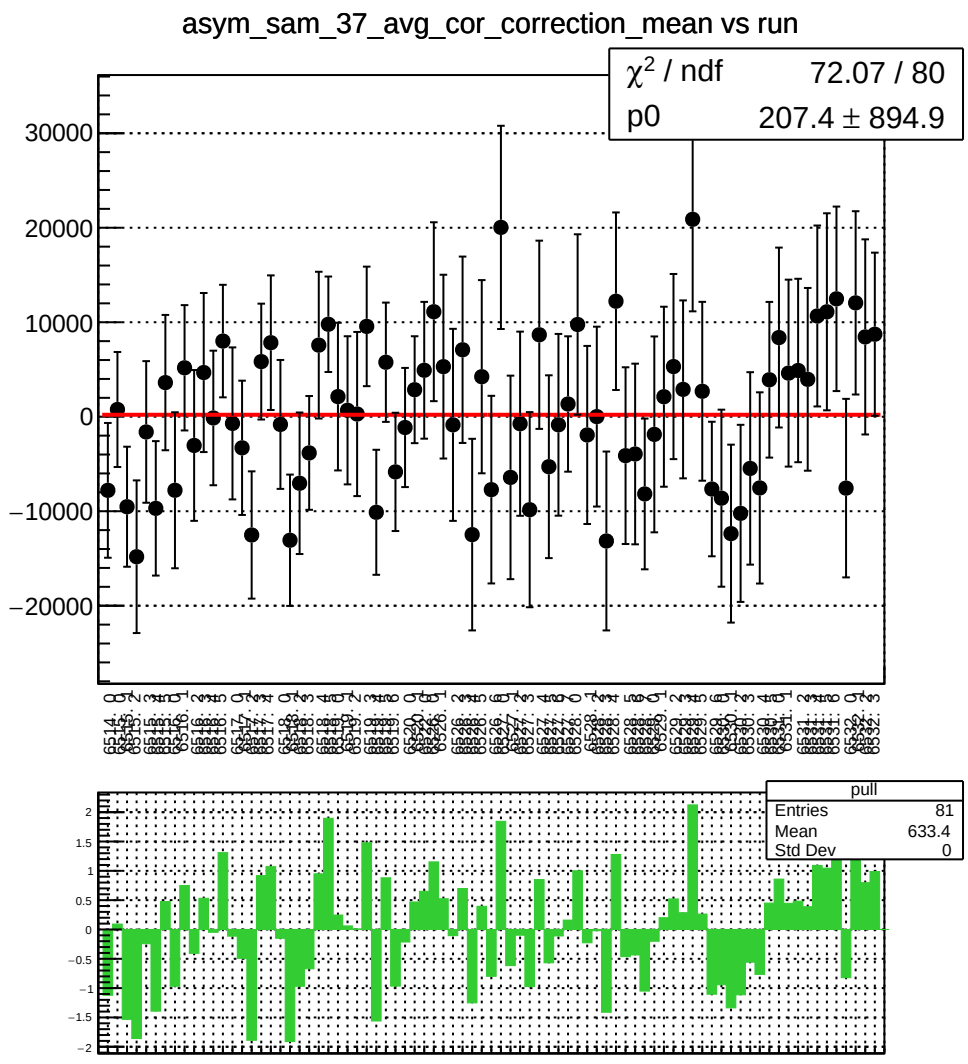

pull1D
Entries 81
Mean 0.007923
Std Dev 0.9433
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

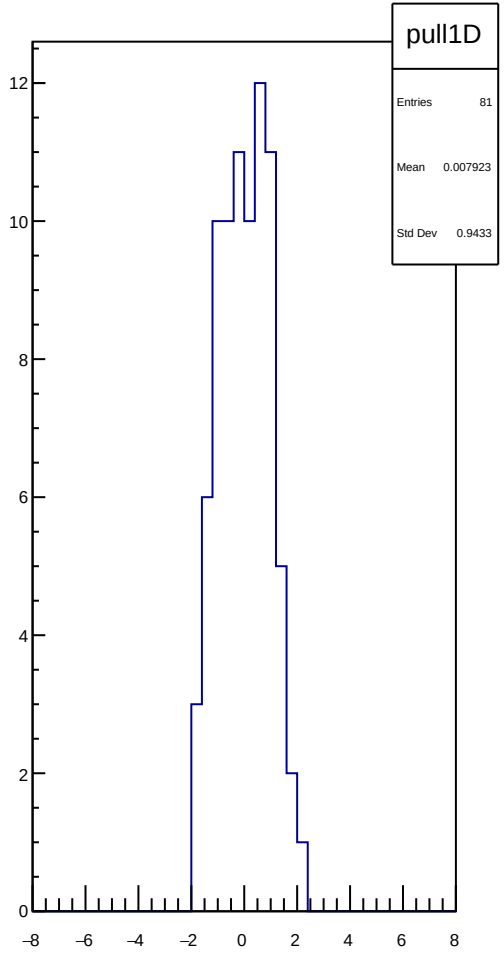

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 5.19e+04 / 80
p0 777.4 ± 0.6328
1000
900
800
700
600

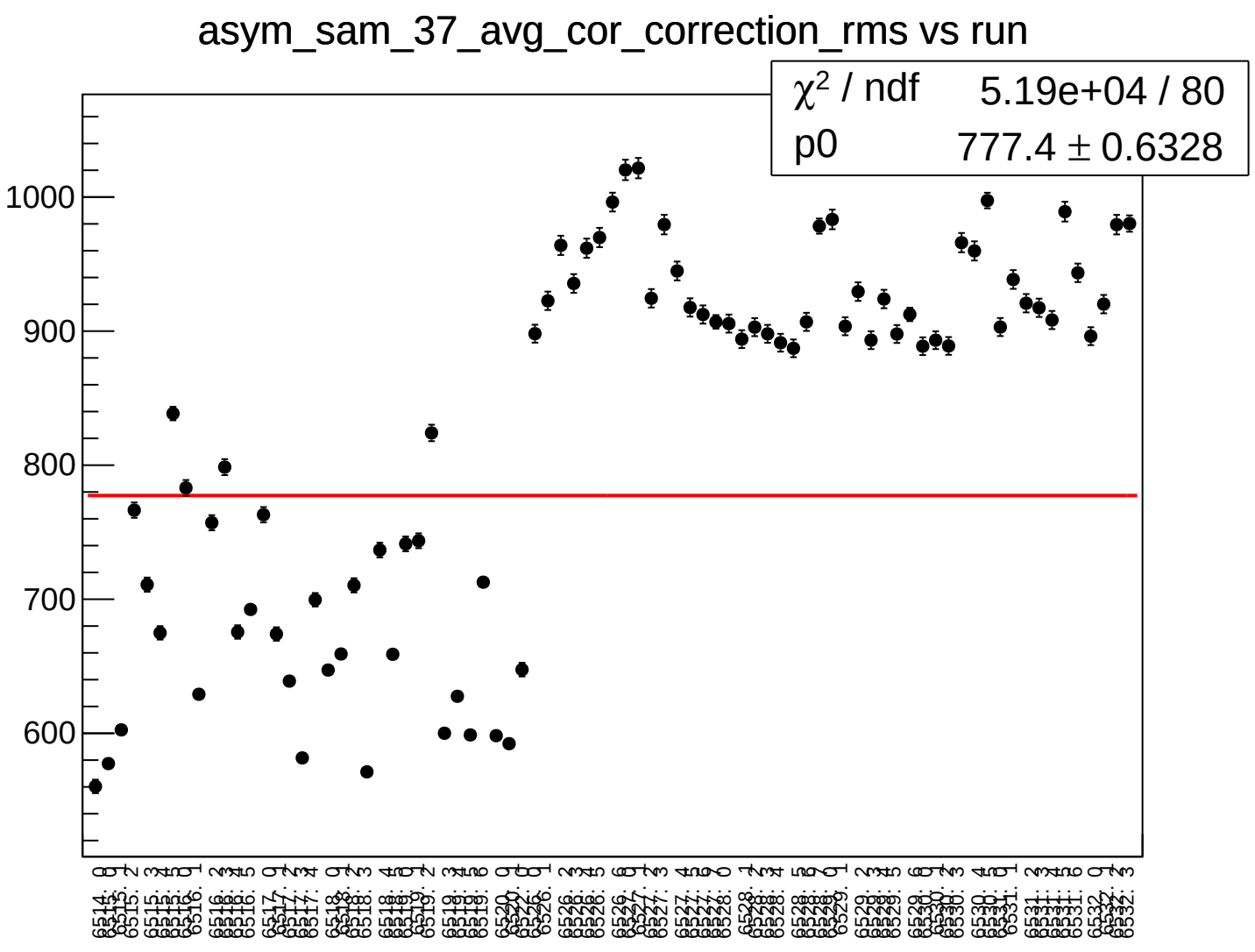

cor_asym_sam_37_avg_mean vs run
χ² / ndf 83.85 / 80
p0 125.4 ± 106
pull
Entries 81
Mean 98.04
Std Dev 0

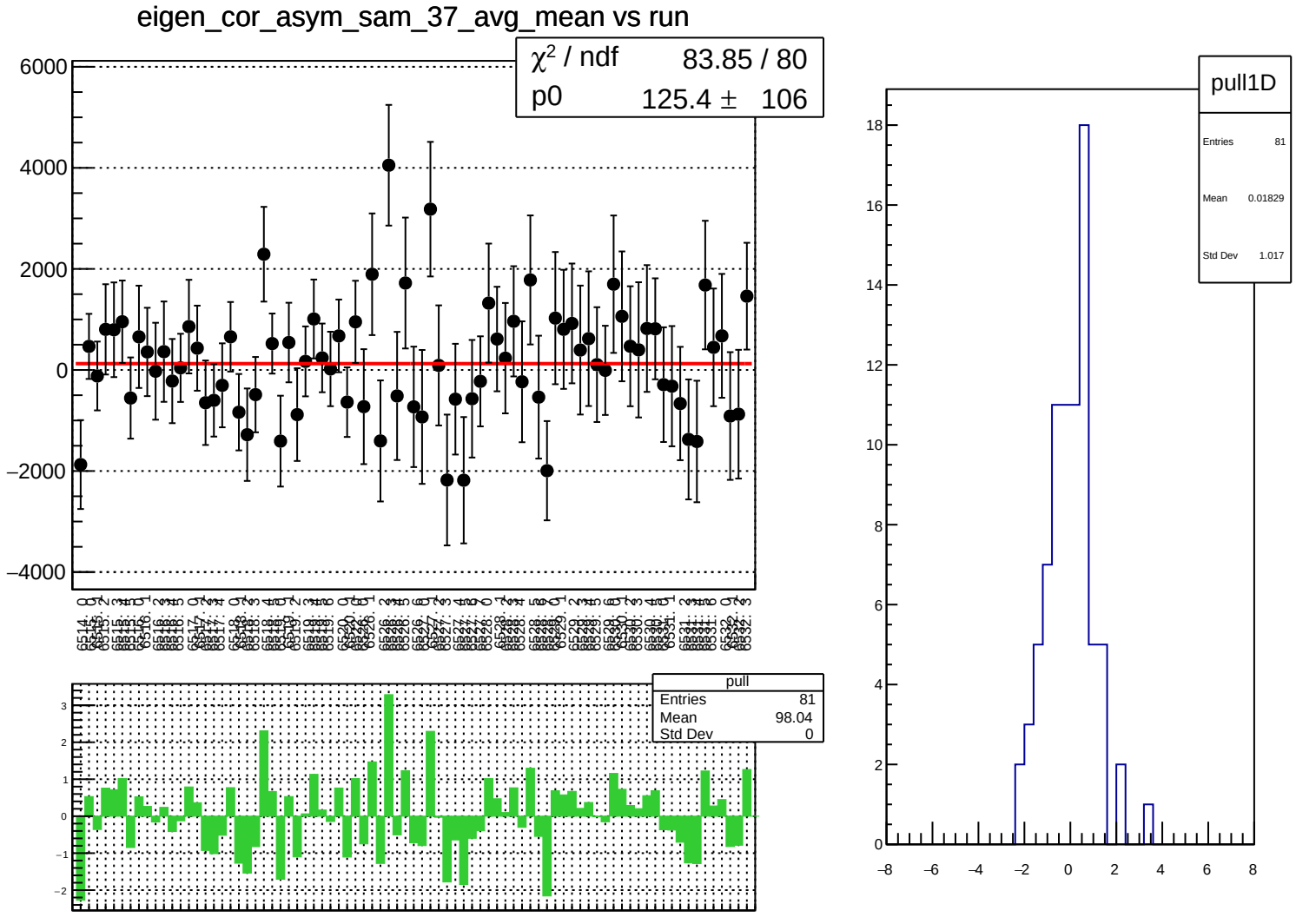

pull1D
Entries 81
Mean 0.01829
Std Dev 1.017

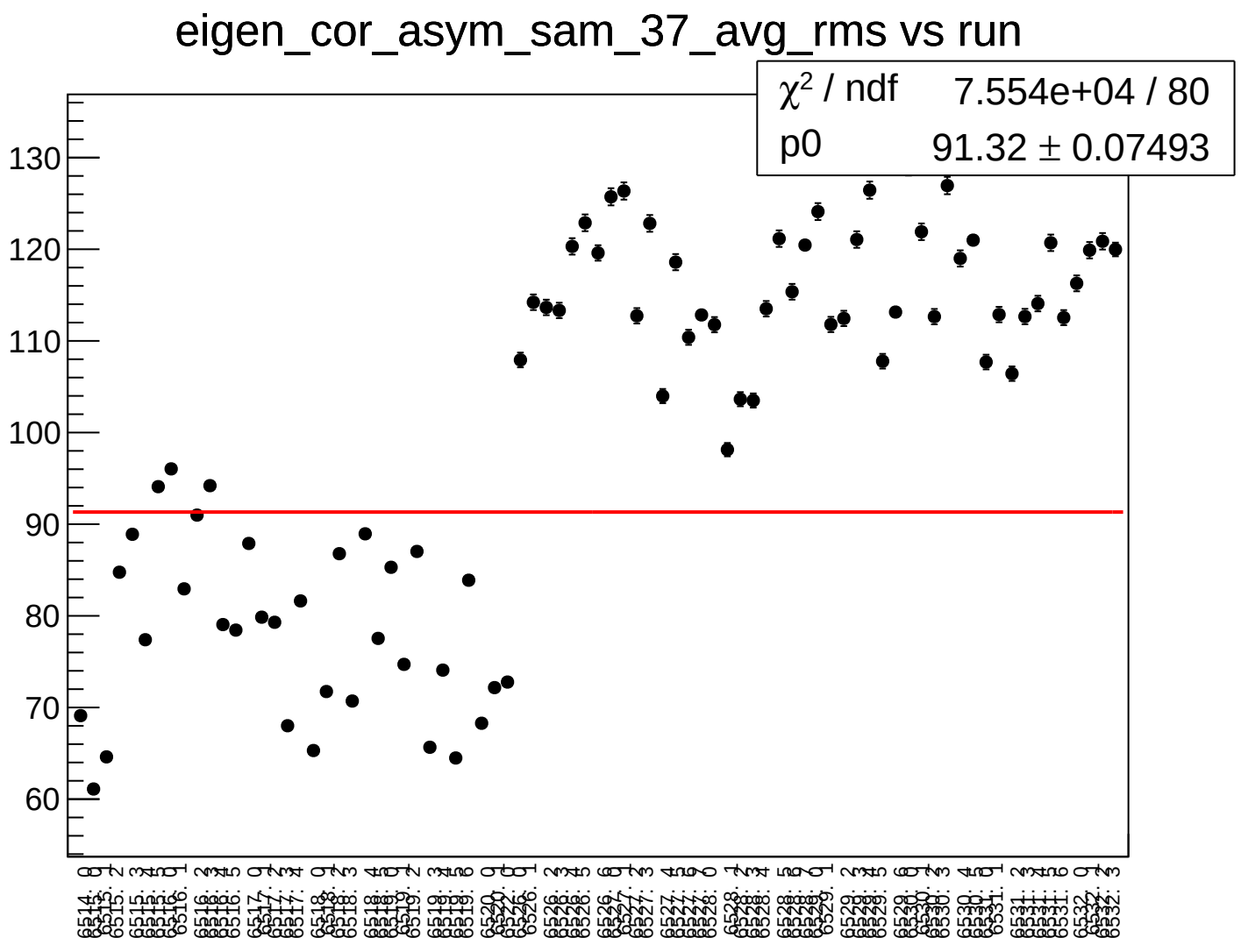

cor_asym_sam_37_avg_rms vs run
χ² / ndf 7.554e+04 / 80
p0 91.32 ± 0.07493
130
120
110
100
90
80
70
60

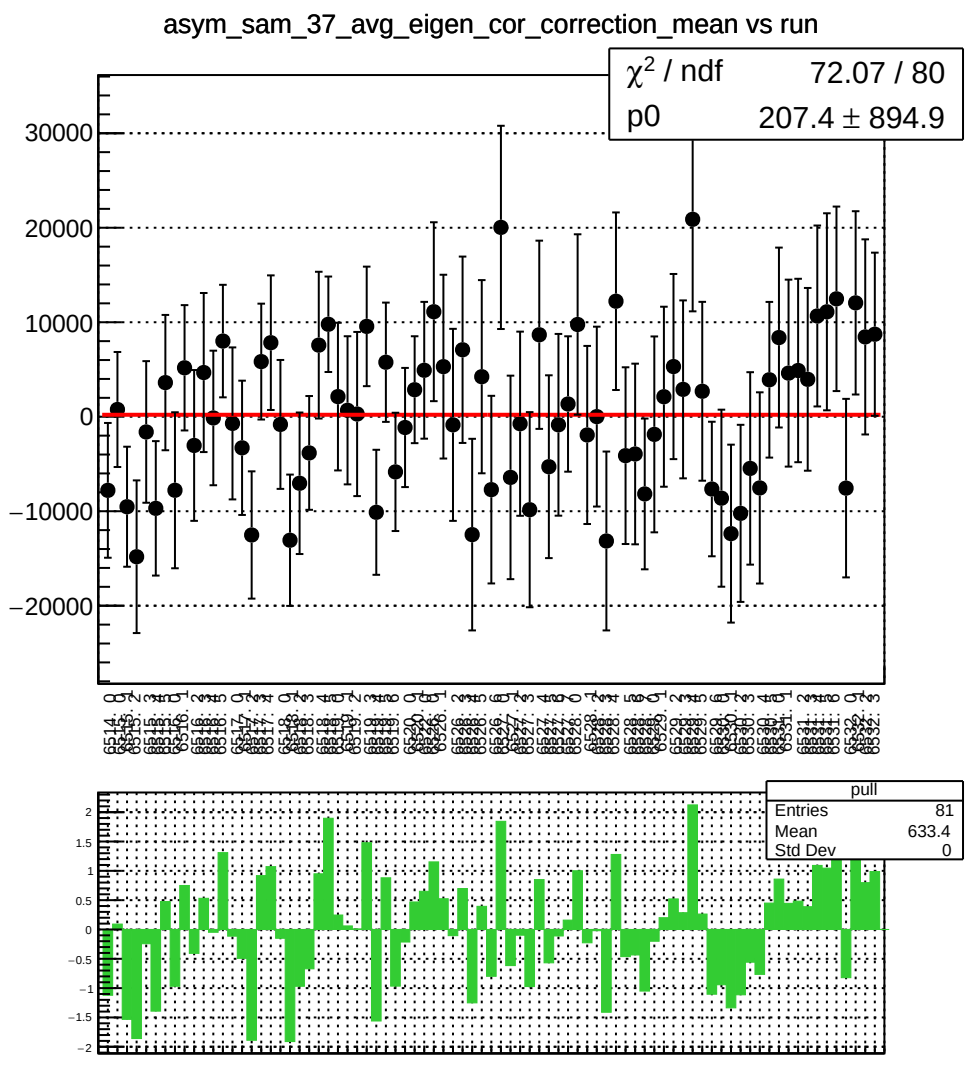

asym_sam_37_avg_cor_correction_mean vs run
χ² / ndf 72.07 / 80
p0 207.4 ± 894.9
30000
20000
10000
0
−10000
−20000
pull
Entries 81
Mean 633.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

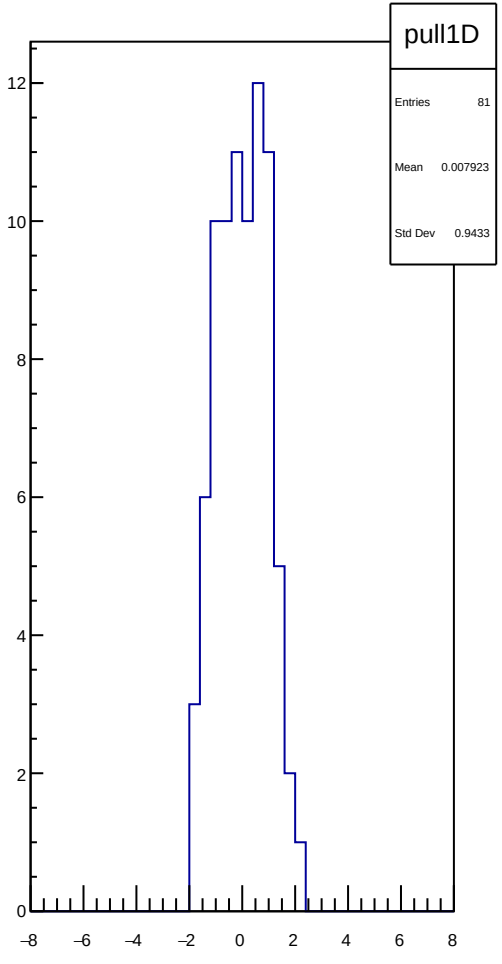

pull1D
Entries 81
Mean 0.007923
Std Dev 0.9433
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

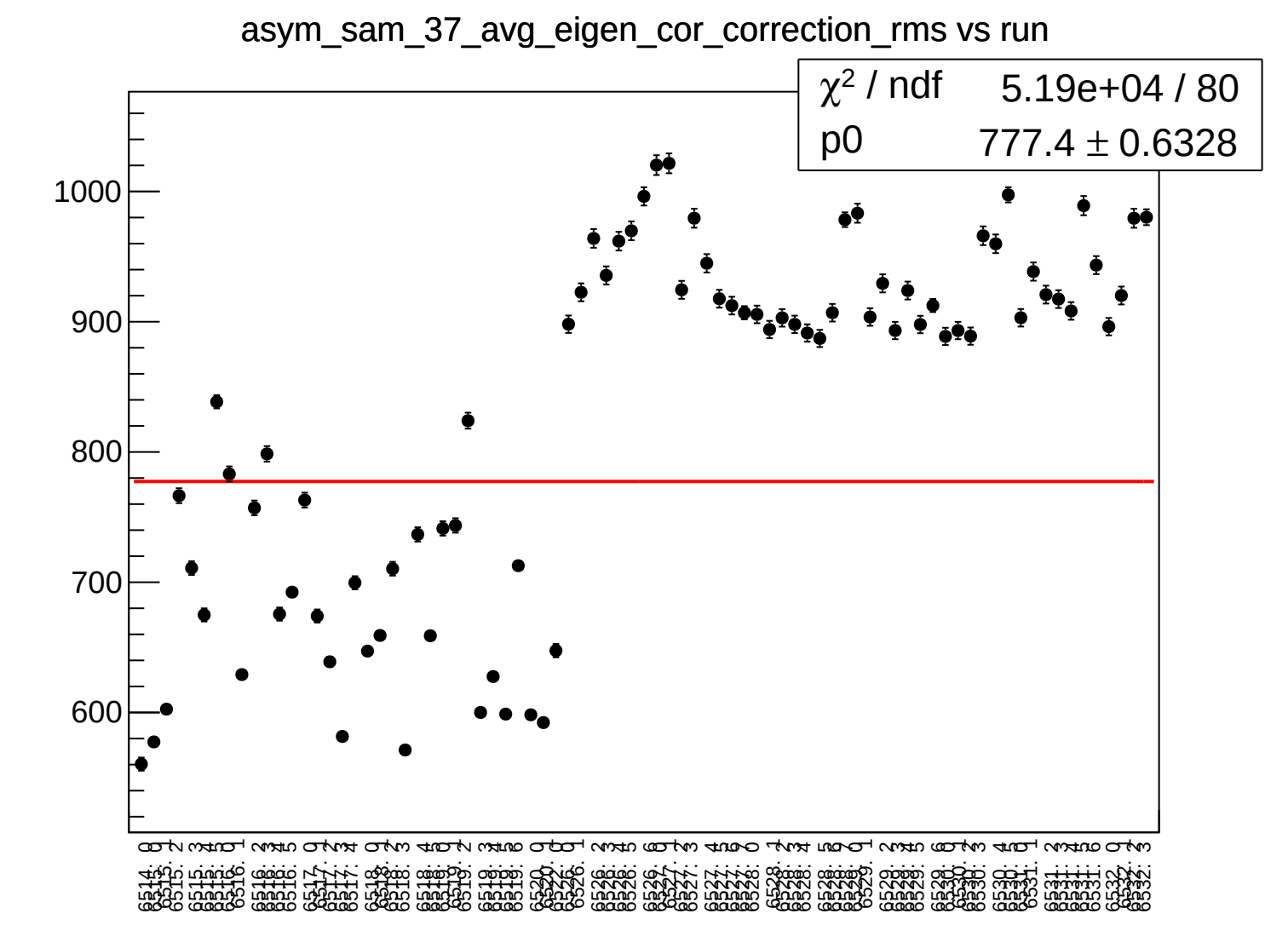

asym_sam_37_avg_cor_correction_rms vs run
χ² / ndf 5.19e+04 / 80
p0 777.4 ± 0.6328
1000
900
800
700
600

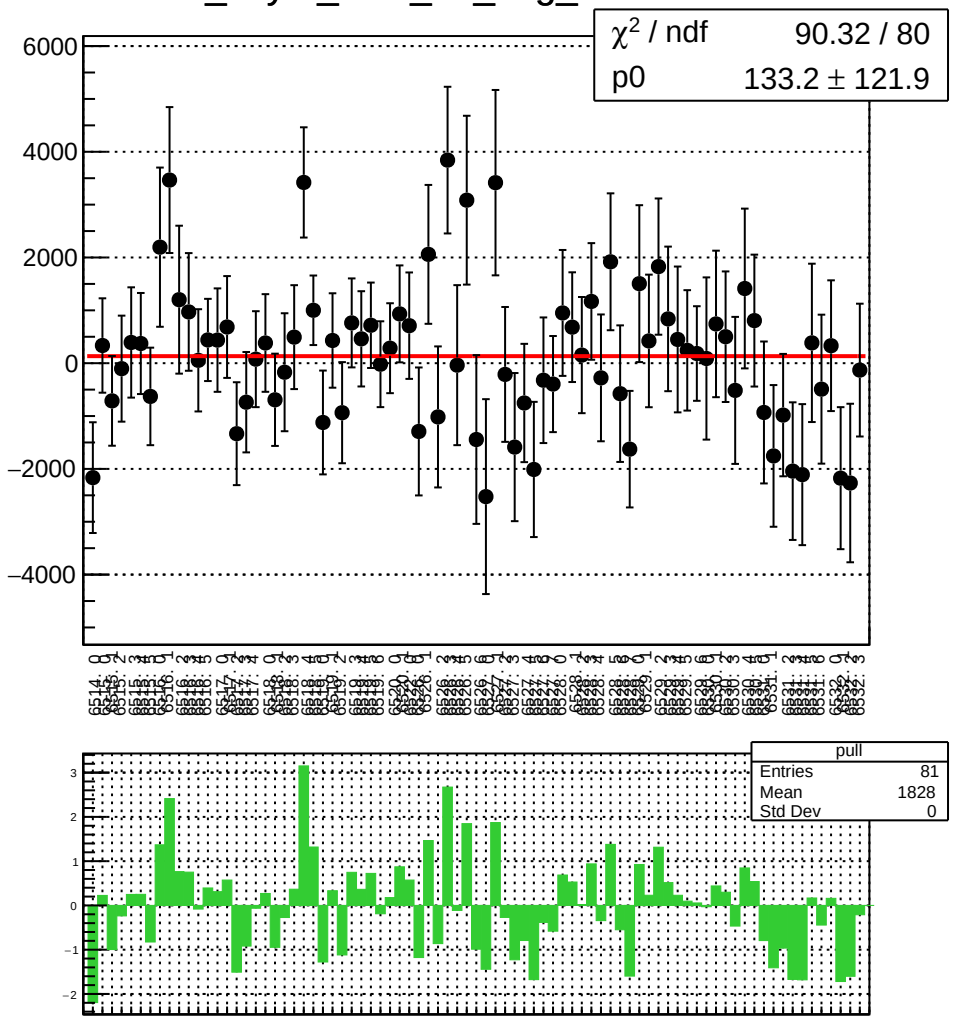

eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 83.85 / 80
p0 125.4 ± 106
pull
Entries 81
Mean 98.04
Std Dev 0
pull1D
Entries 81
Mean 0.01829
Std Dev 1.017

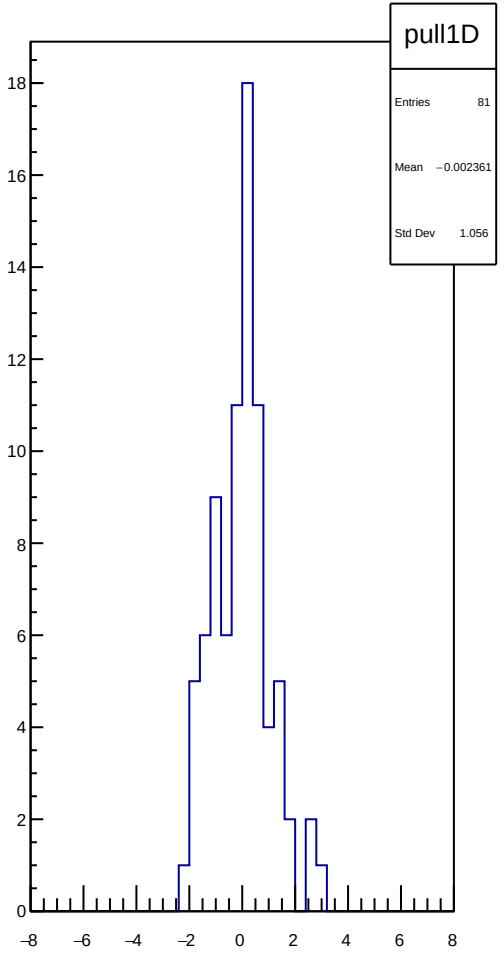

eigen_cor_asym_sam_37_avg_rms vs run
χ² / ndf 7.554e+04 / 80
p0 91.32 ± 0.07493
130
120
110
100
90
80
70
60

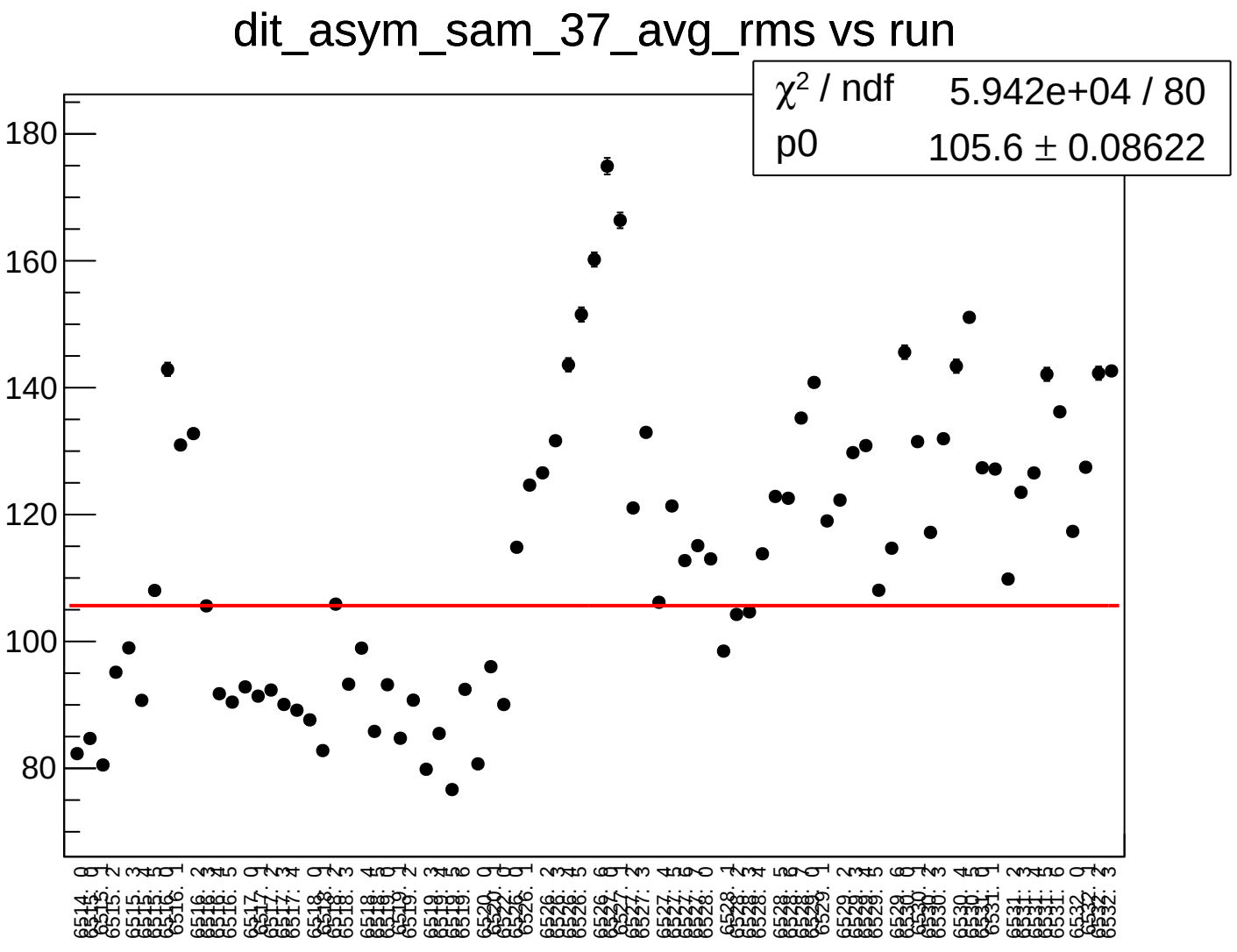

asym_sam_37_avg_eigen_cor_correction_mean vs run
χ² / ndf 72.07 / 80
p0 207.4 ± 894.9
30000
20000
10000
0
−10000
−20000
pull
Entries 81
Mean 633.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

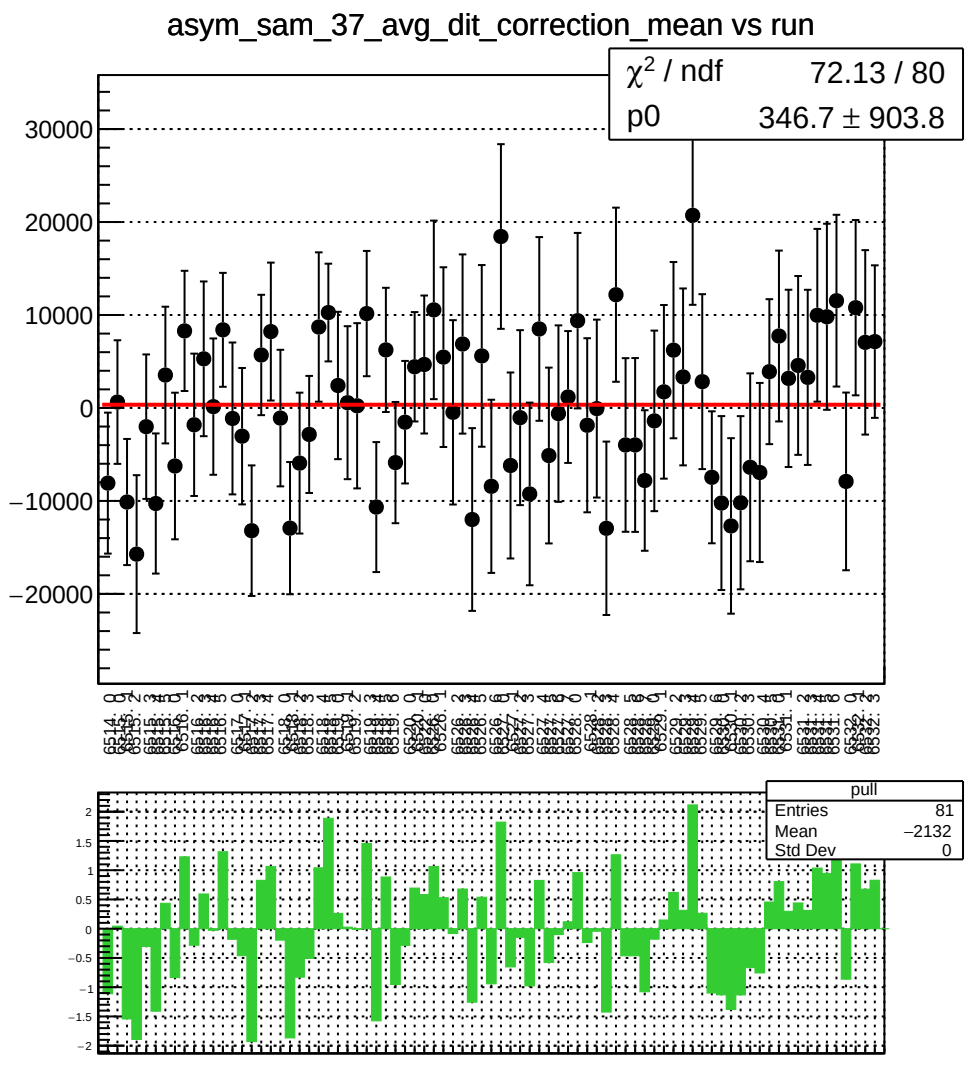

pull1D
Entries 81
Mean 0.007923
Std Dev 0.9433
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

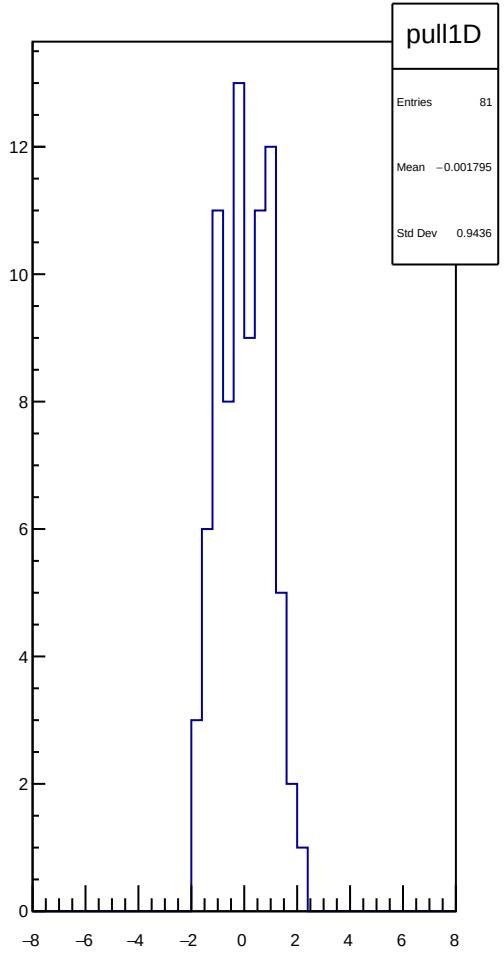

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 5.19e+04 / 80
p0 777.4 ± 0.6328
1000
900
800
700
600

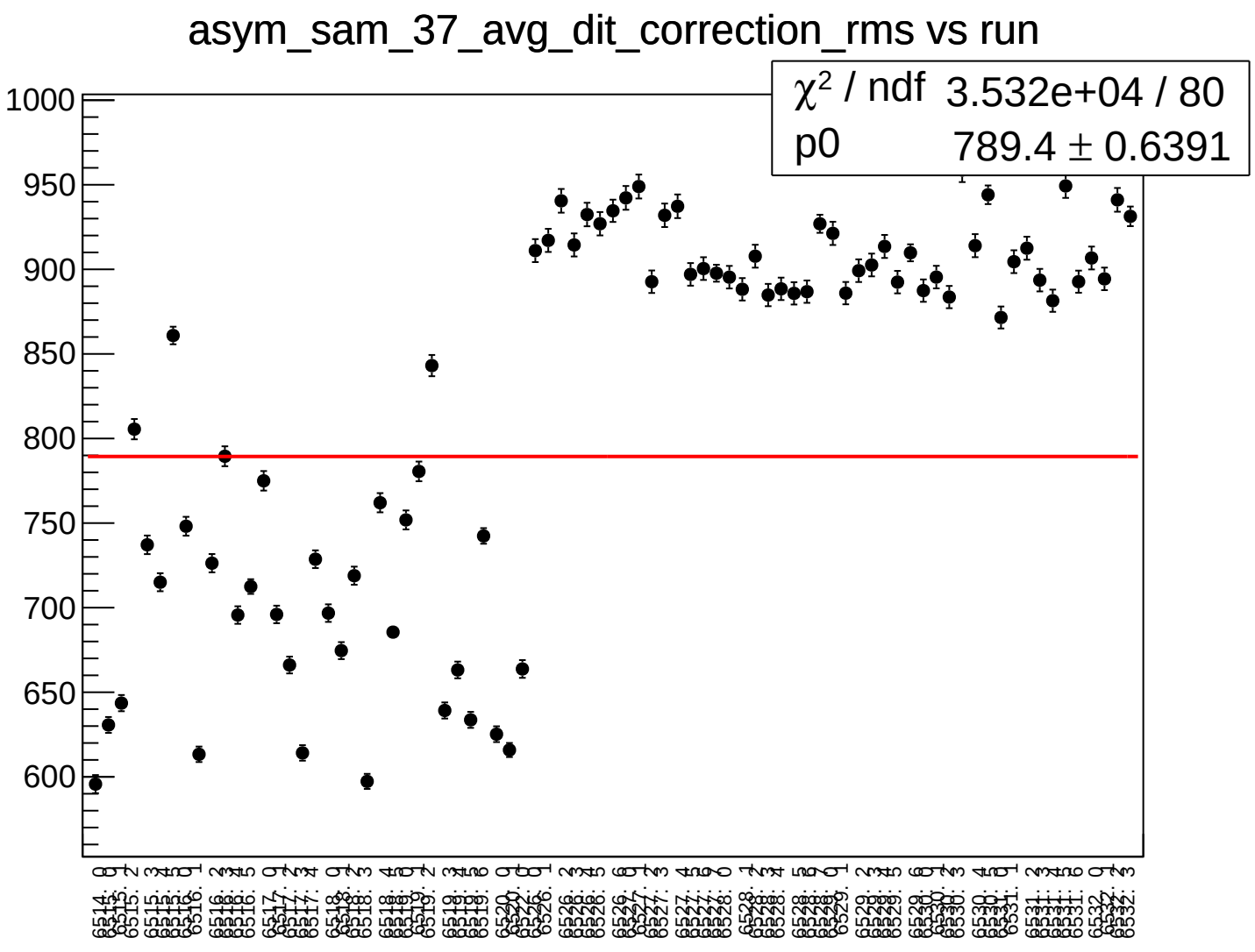

dit_asym_sam_37_avg_mean vs run
χ² / ndf 90.32 / 80
p0 133.2 ± 121.9
pull
Entries 81
Mean 1828
Std Dev 0

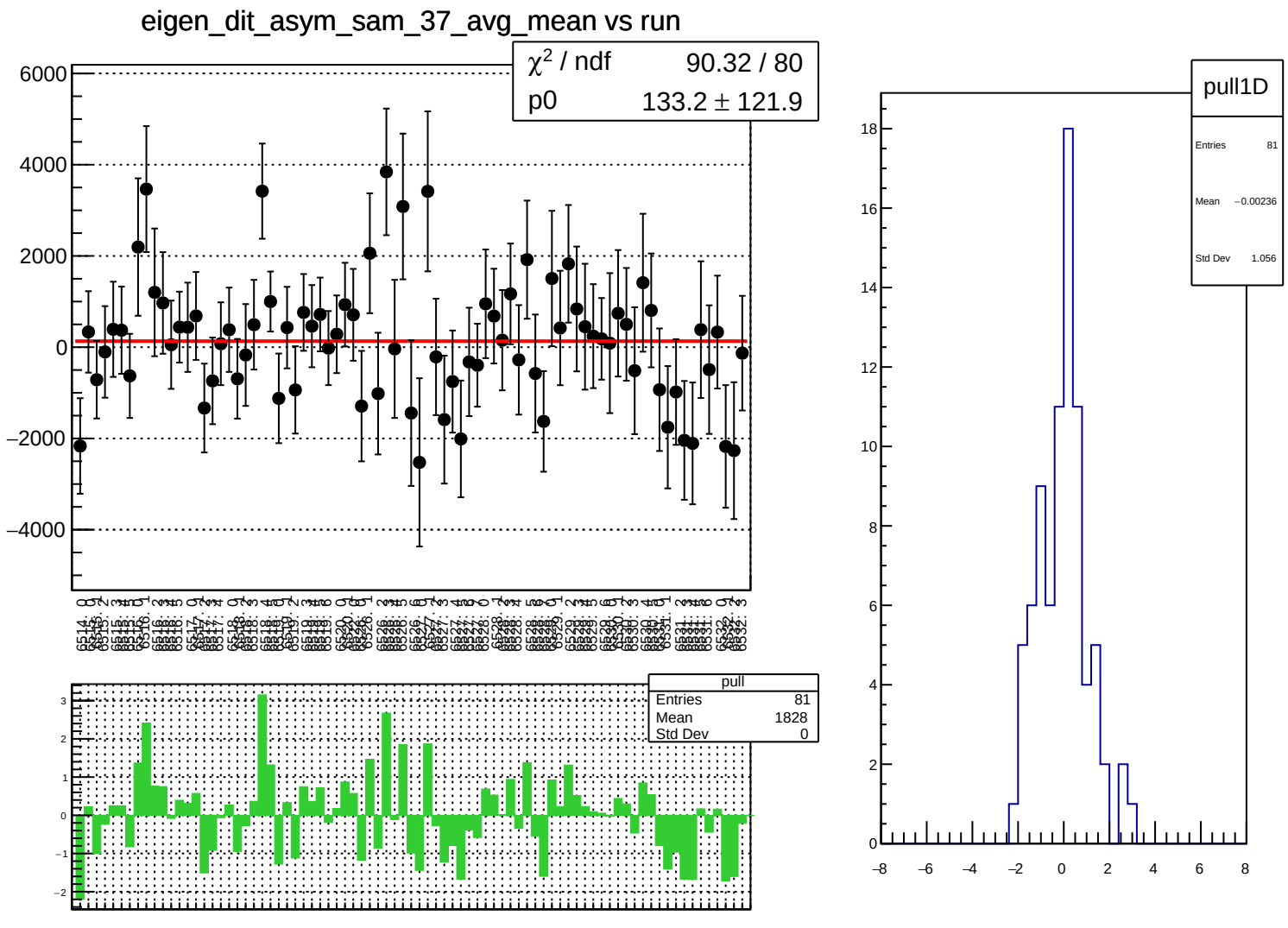

pull1D
Entries 81
Mean −0.002361
Std Dev 1.056

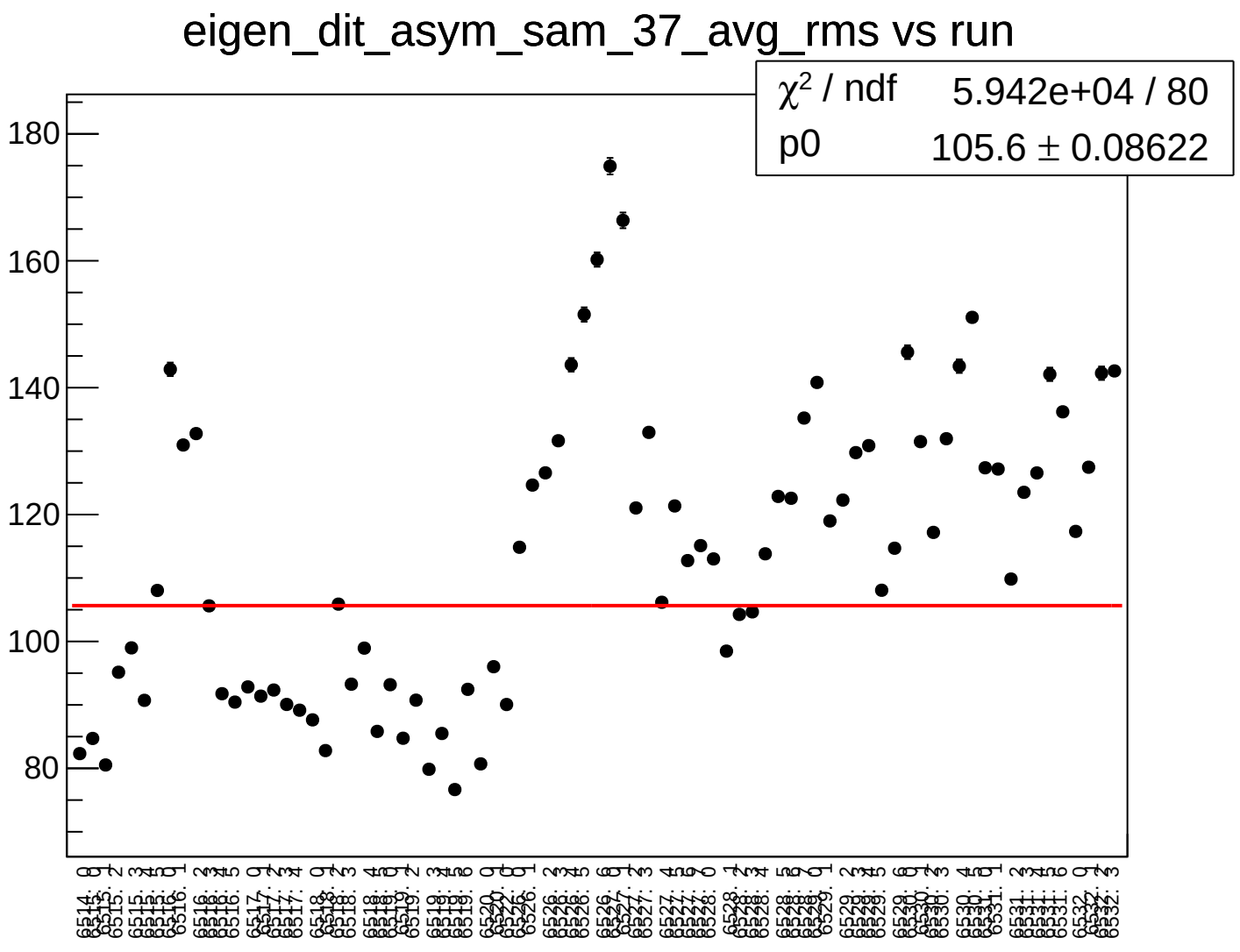

dit_asym_sam_37_avg_rms vs run
χ^2 / ndf 5.942e+04 / 80
p0 105.6 ± 0.08622
180
160
140
120
100
80

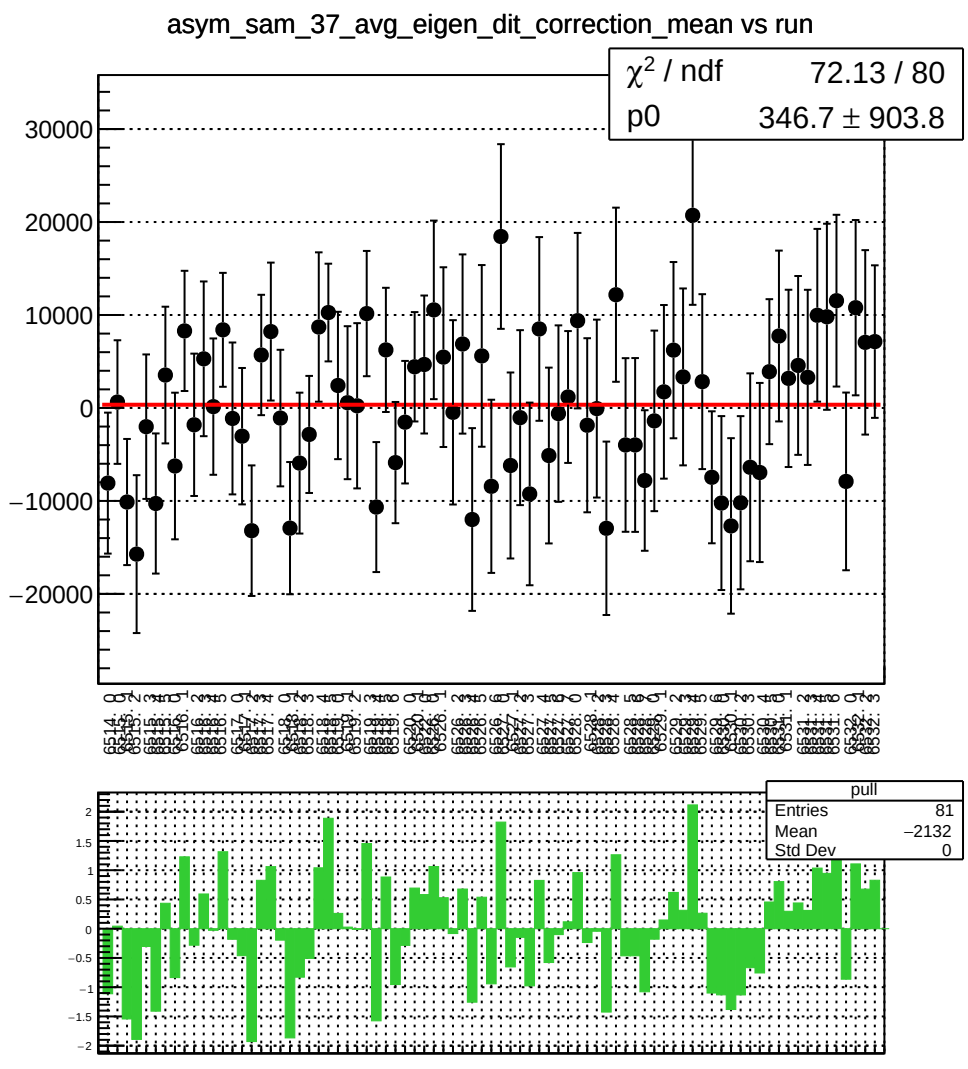

asym_sam_37_avg_dit_correction_mean vs run
χ² / ndf 72.13 / 80
p0 346.7 ± 903.8
30000
20000
10000
0
−10000
−20000
pull
Entries 81
Mean −2132
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

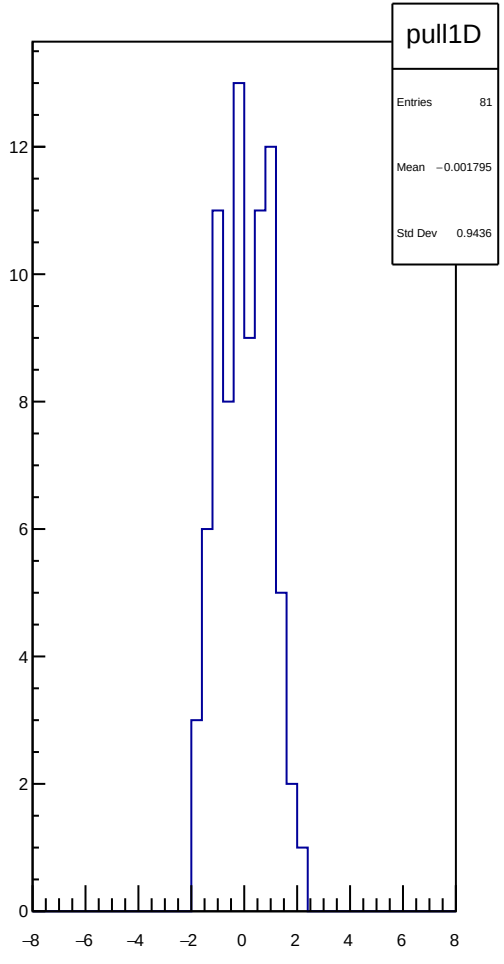

pull1D
Entries 81
Mean −0.001795
Std Dev 0.9436
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

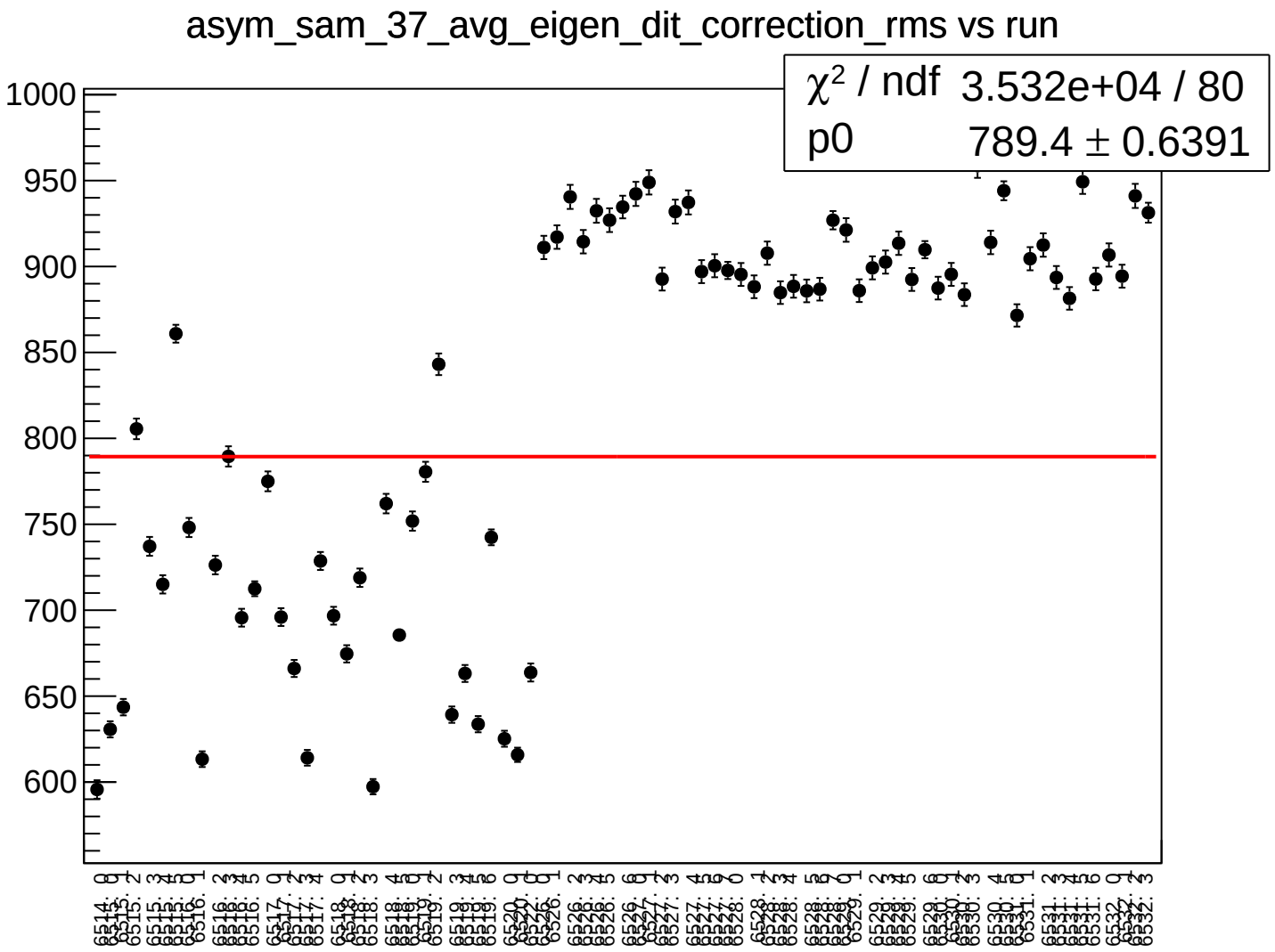

asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 3.532e+04 / 80
p0 789.4 ± 0.6391
1000
950
900
850
800
750
700
650
600

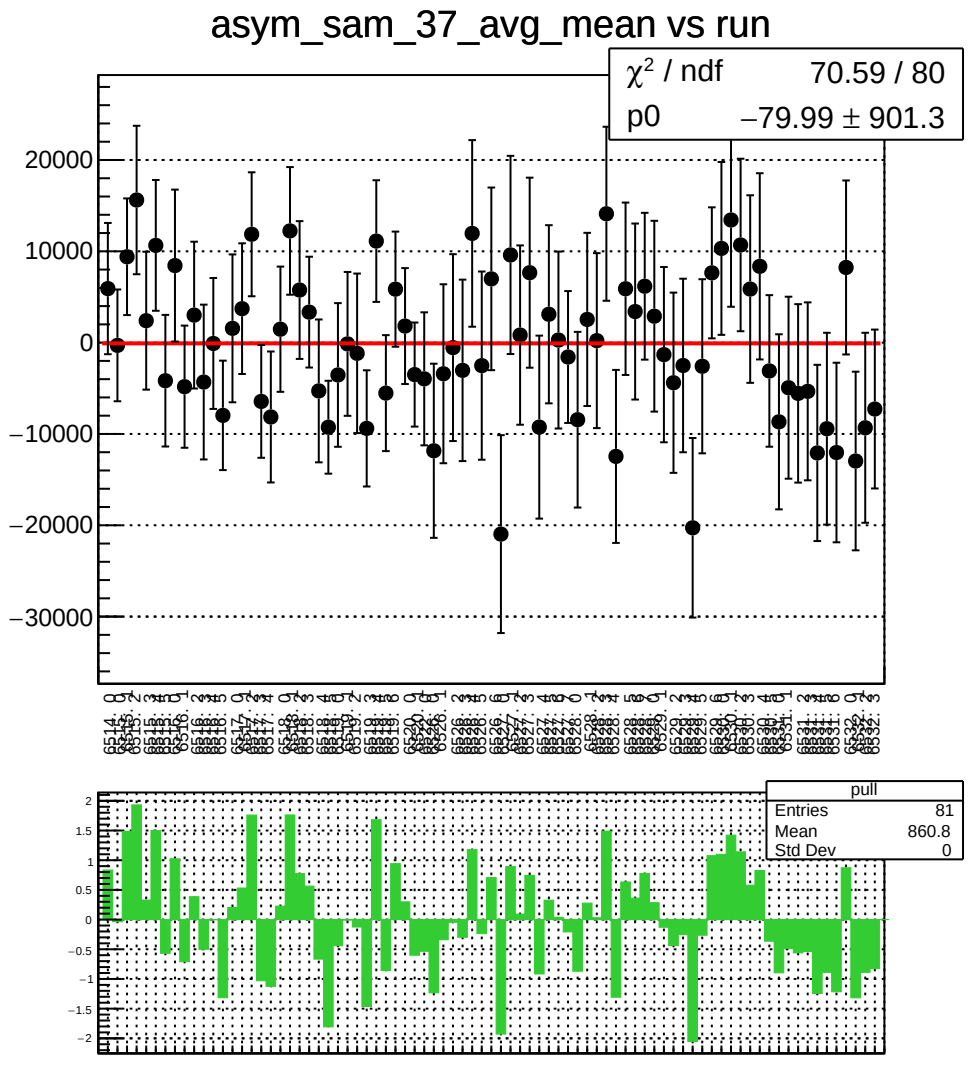

eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 90.32 / 80
p0 133.2 ± 121.9
6000
4000
2000
0
−2000
−4000
pull
Entries 81
Mean 1828
Std Dev 0
pull1D
Entries 81
Mean −0.00236
Std Dev 1.056
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

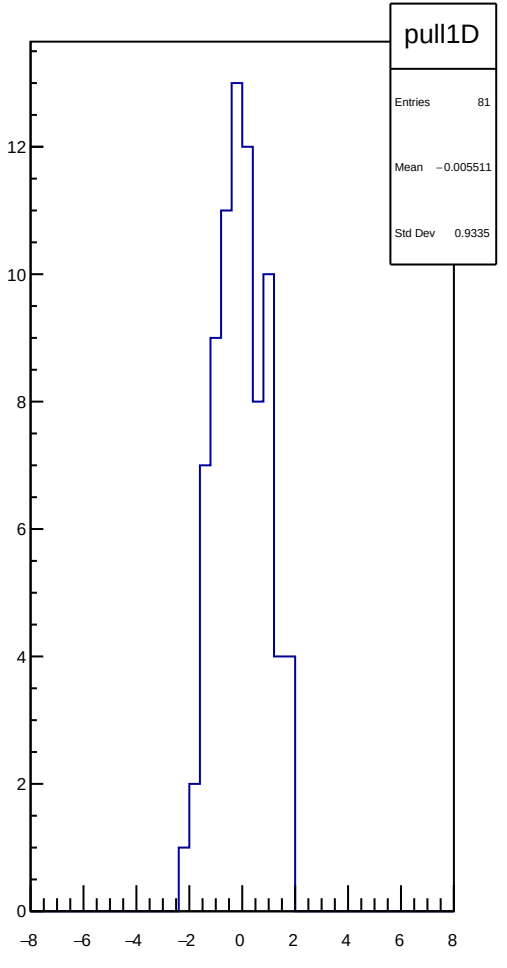

eigen_dit_asym_sam_37_avg_rms vs run
χ² / ndf 5.942e+04 / 80
p0 105.6 ± 0.08622
180
160
140
120
100
80

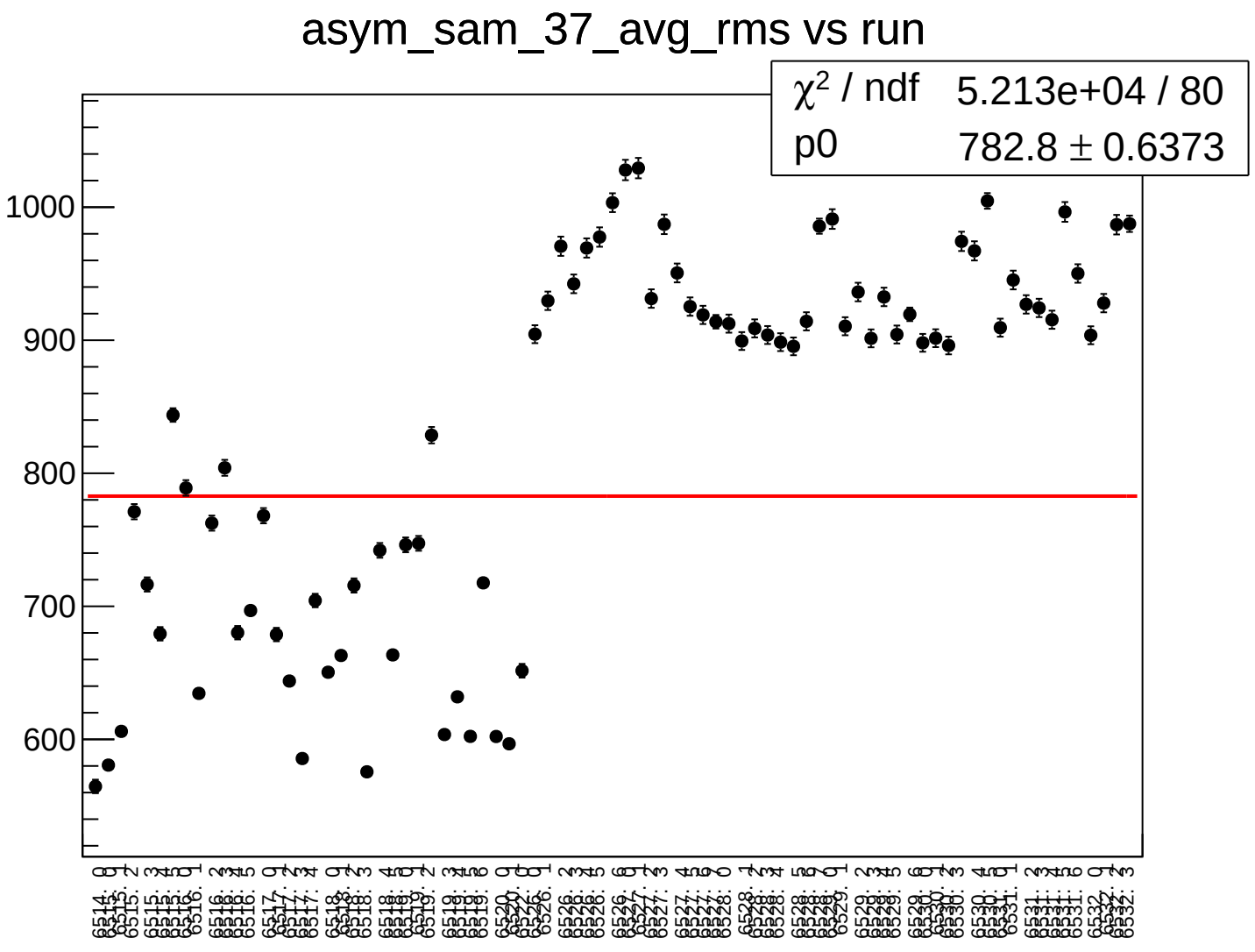

asym_sam_37_avg_eigen_dit_correction_mean vs run
χ² / ndf 72.13 / 80
p0 346.7 ± 903.8
30000
20000
10000
0
−10000
−20000
pull
Entries 81
Mean −2132
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

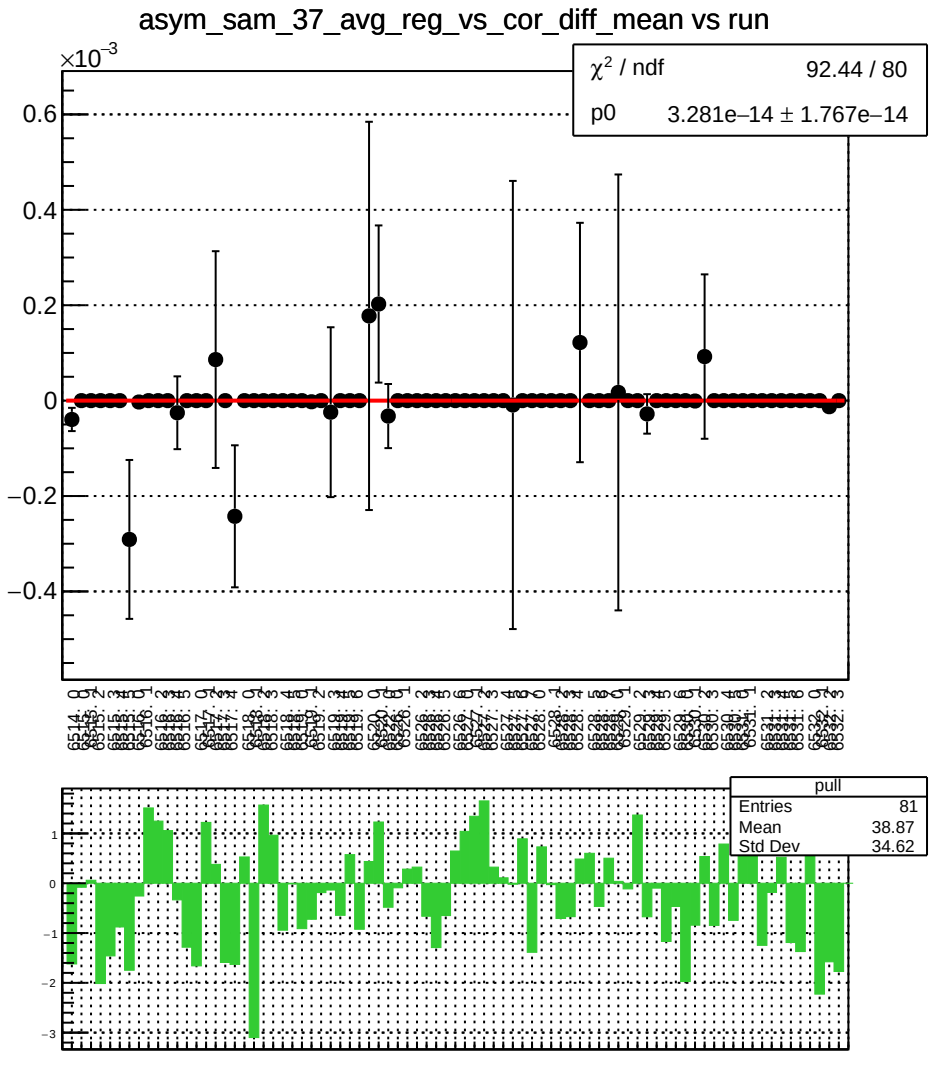

pull1D
Entries 81
Mean −0.001795
Std Dev 0.9436
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

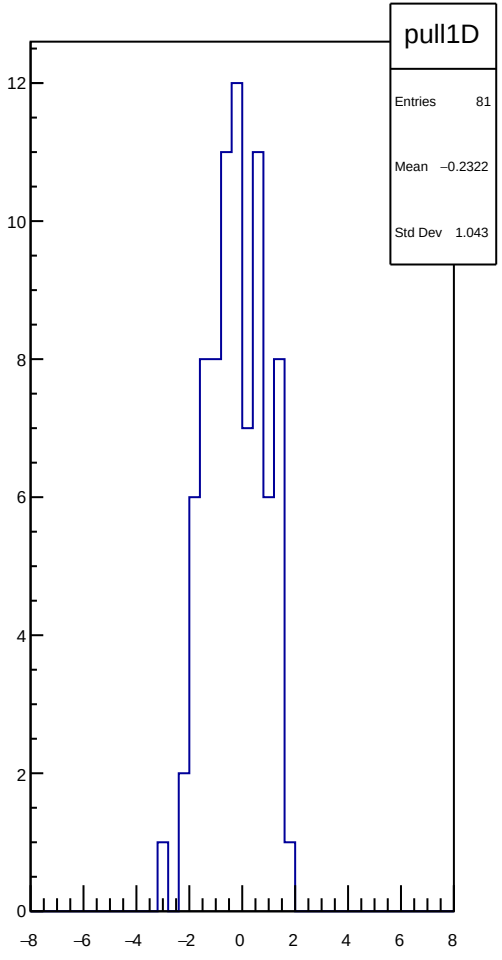

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.532e+04 / 80
p0 789.4 ± 0.6391
1000
950
900
850
800
750
700
650
600

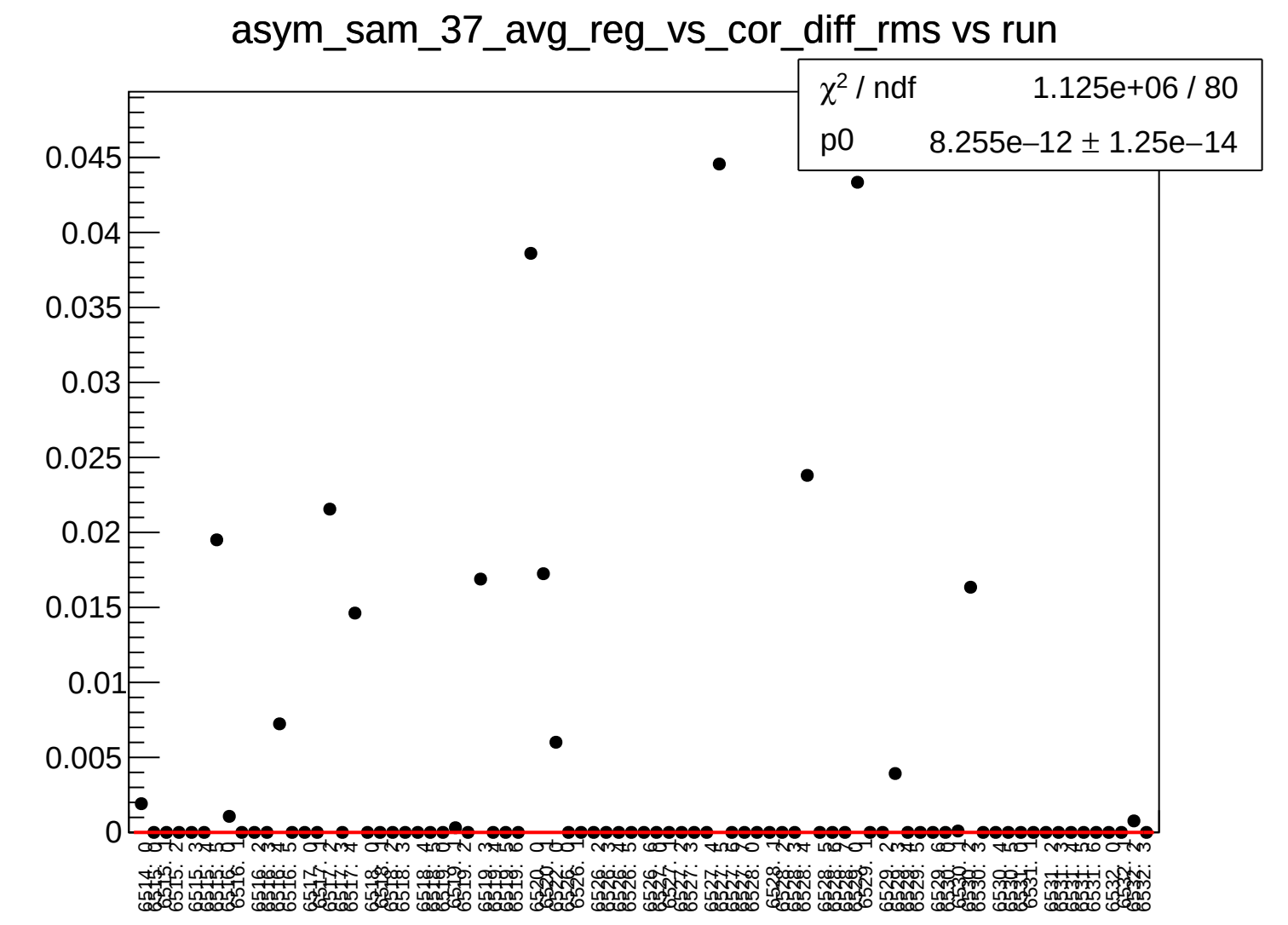

asym_sam_37_avg_mean vs run
χ² / ndf 70.59 / 80
p0 −79.99 ± 901.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean 860.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

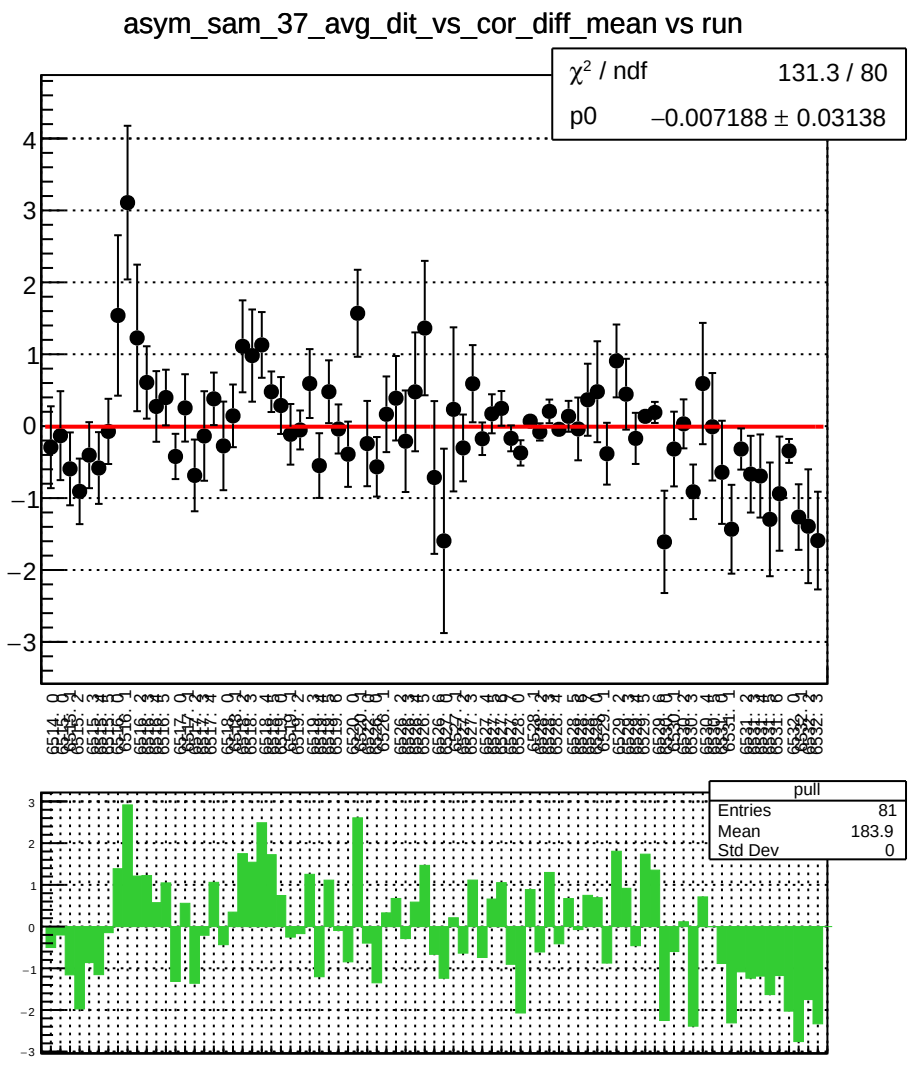

pull1D
Entries 81
Mean −0.005511
Std Dev 0.9335
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

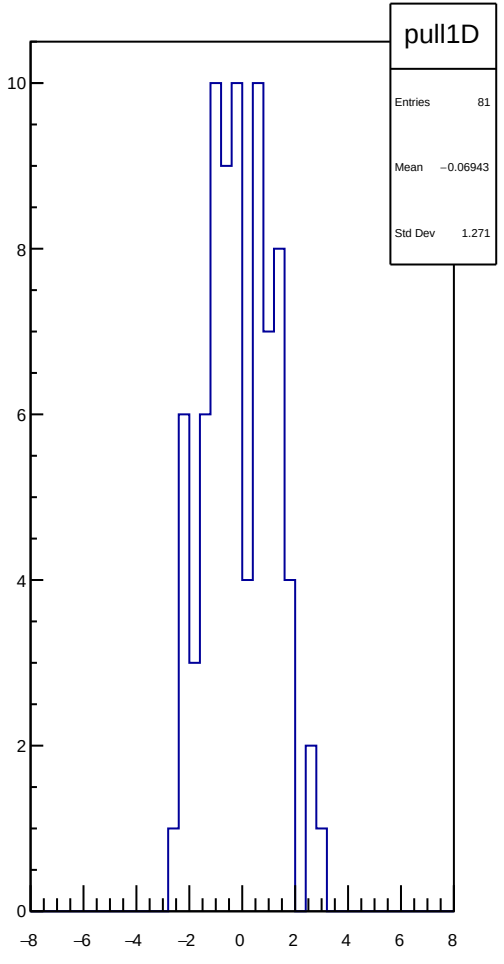

asym_sam_37_avg_rms vs run
χ² / ndf 5.213e+04 / 80
p0 782.8 ± 0.6373
1000
900
800
700
600

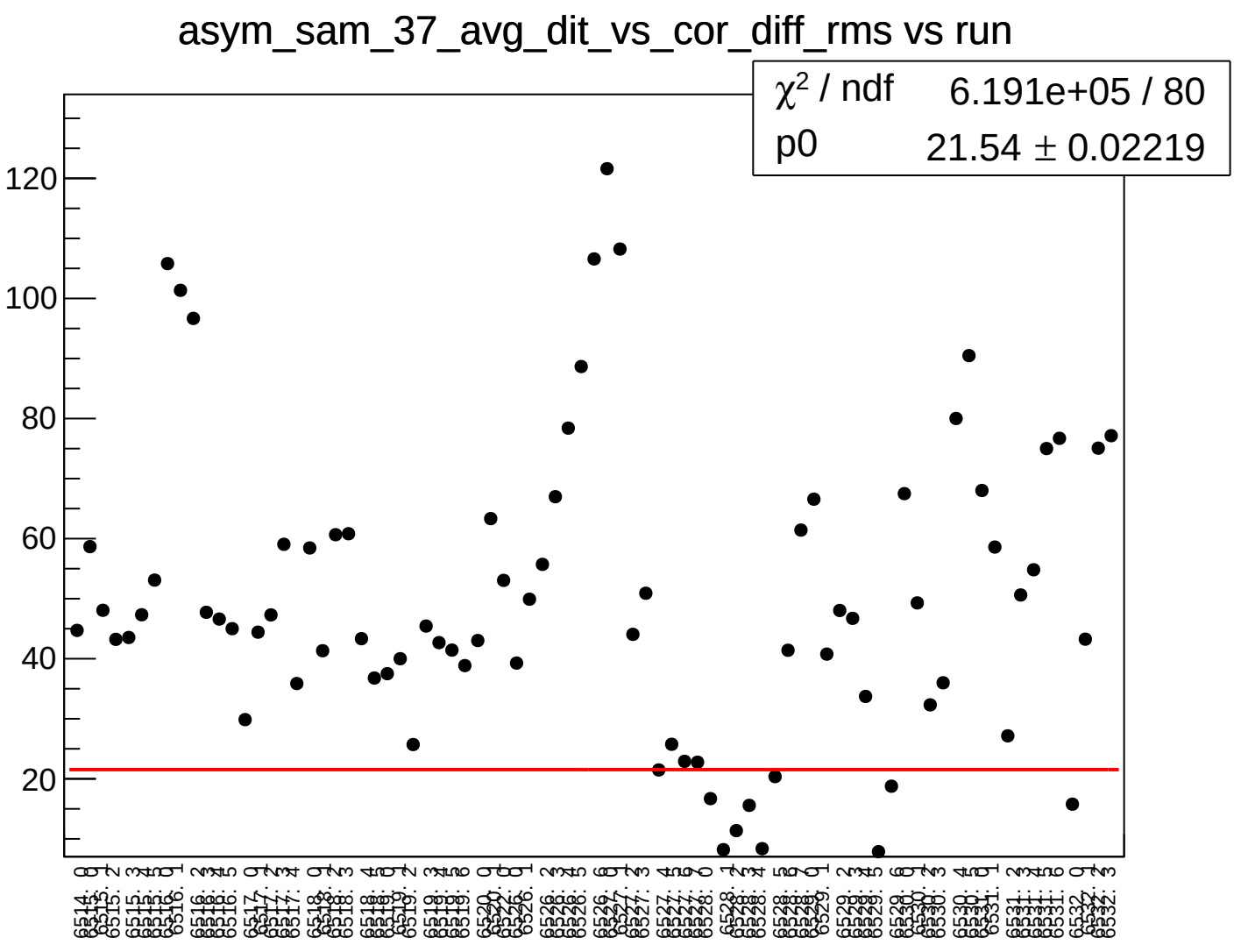

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 92.44 / 80
p0 3.281e−14 ± 1.767e−14
pull
Entries 81
Mean 38.87
Std Dev 34.62

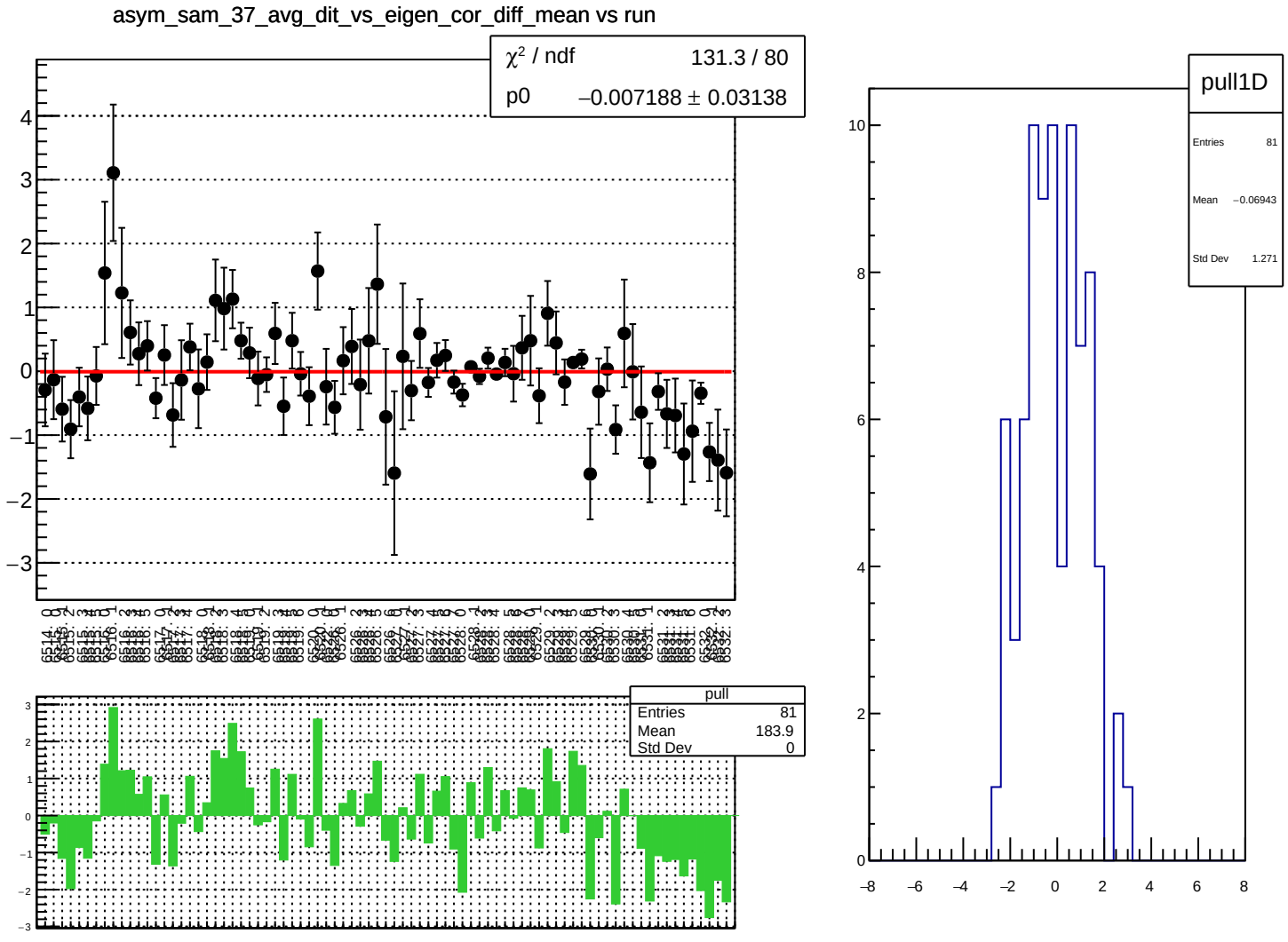

pull1D
Entries 81
Mean −0.2322
Std Dev 1.043

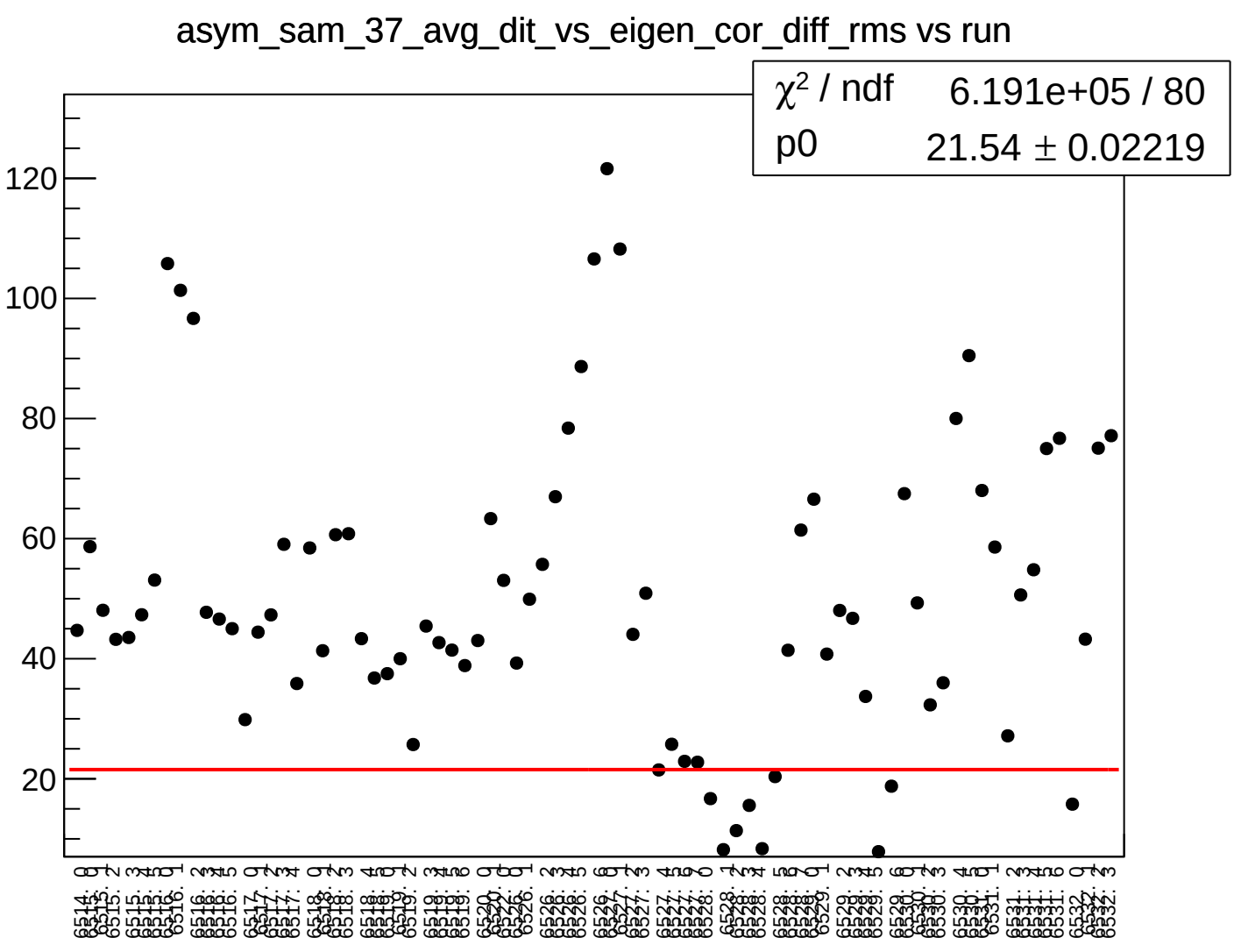

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.125e+06 / 80
p0 8.255e−12 ± 1.25e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

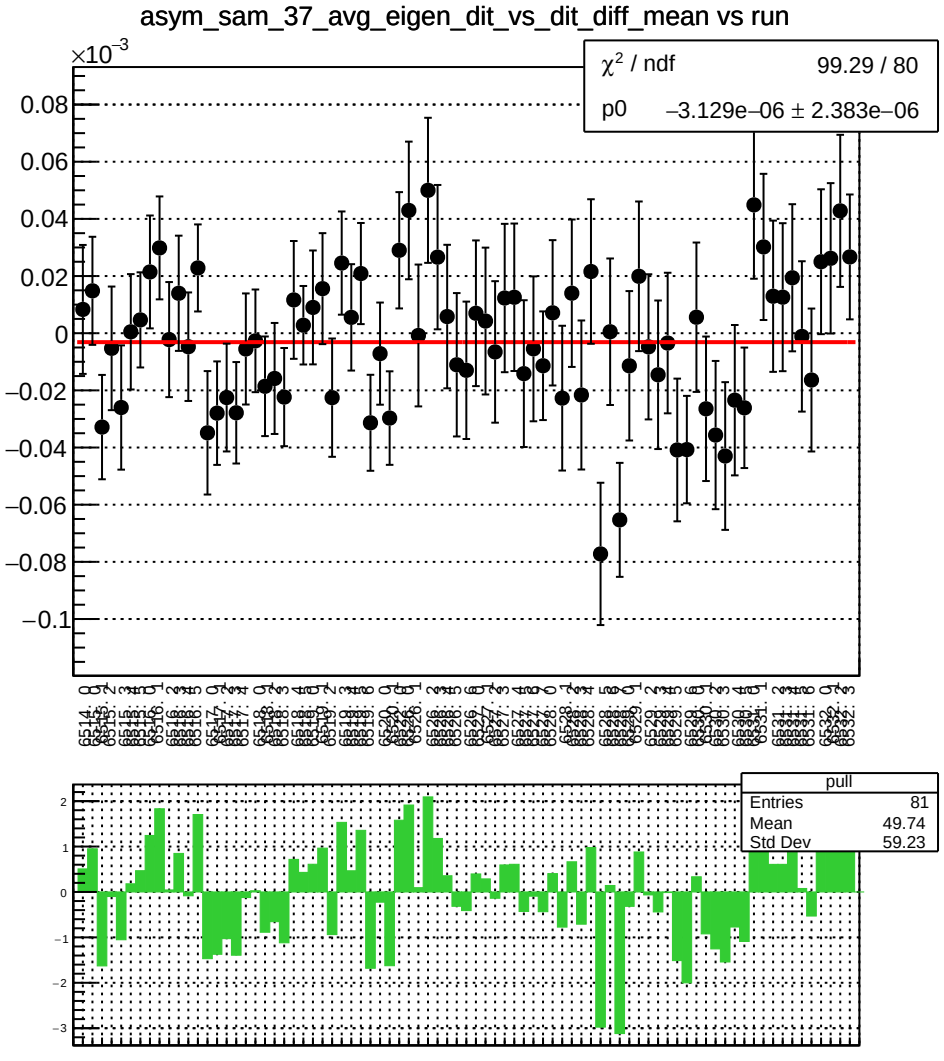

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 131.3 / 80
p0 −0.007188 ± 0.03138
pull
Entries 81
Mean 183.9
Std Dev 0

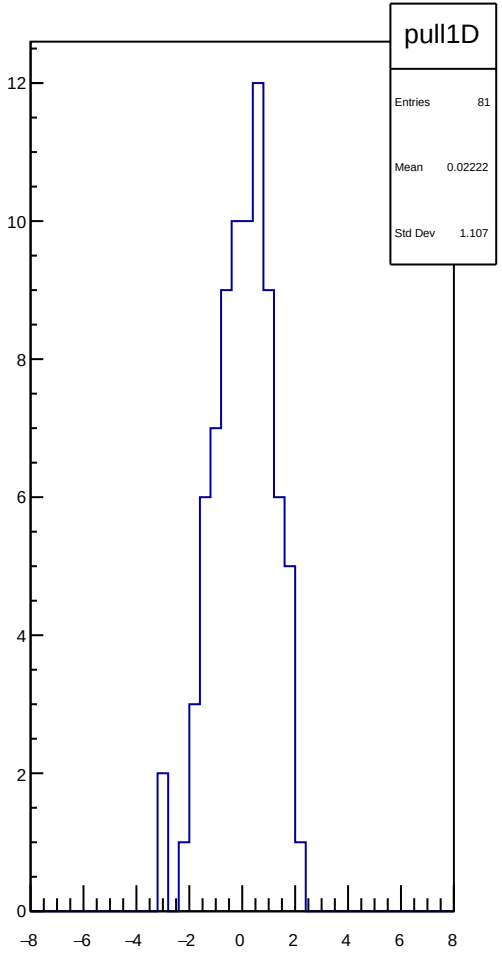

pull1D
Entries 81
Mean −0.06943
Std Dev 1.271

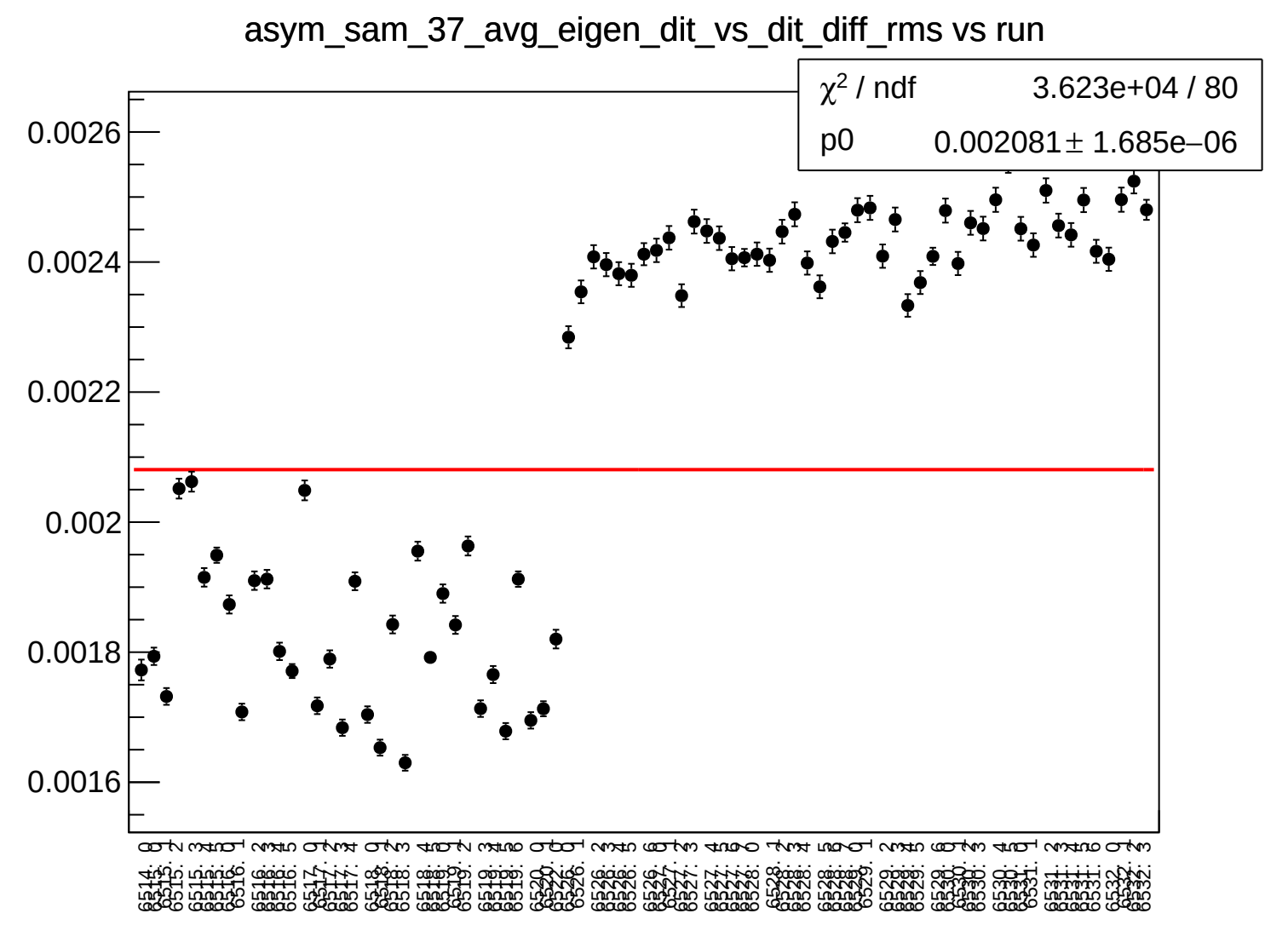

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.191e+05 / 80
p0 21.54 ± 0.02219
120
100
80
60
40
20

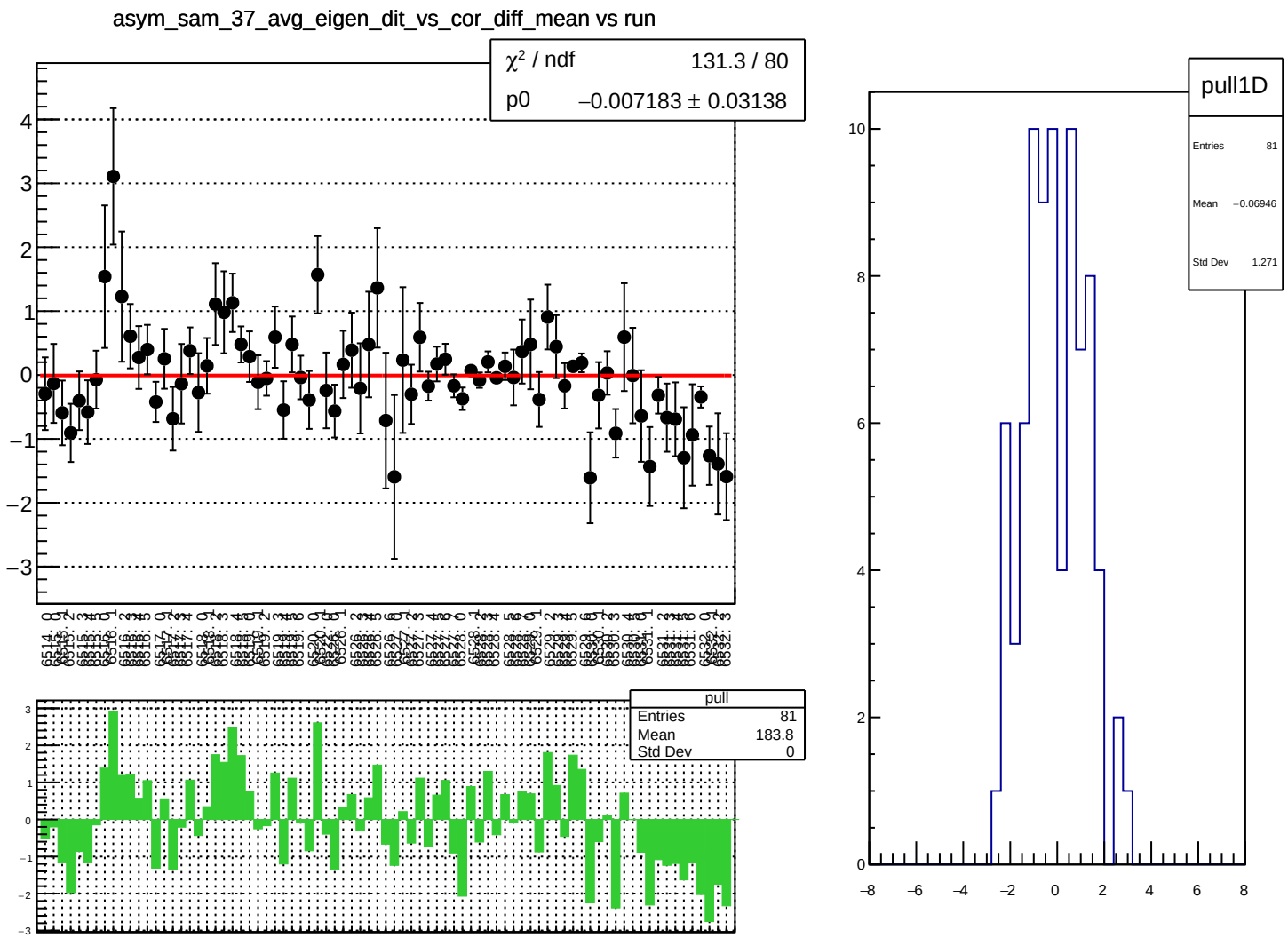

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 131.3 / 80
p0 −0.007188 ± 0.03138
pull
Entries 81
Mean 183.9
Std Dev 0
pull1D
Entries 81
Mean −0.06943
Std Dev 1.271

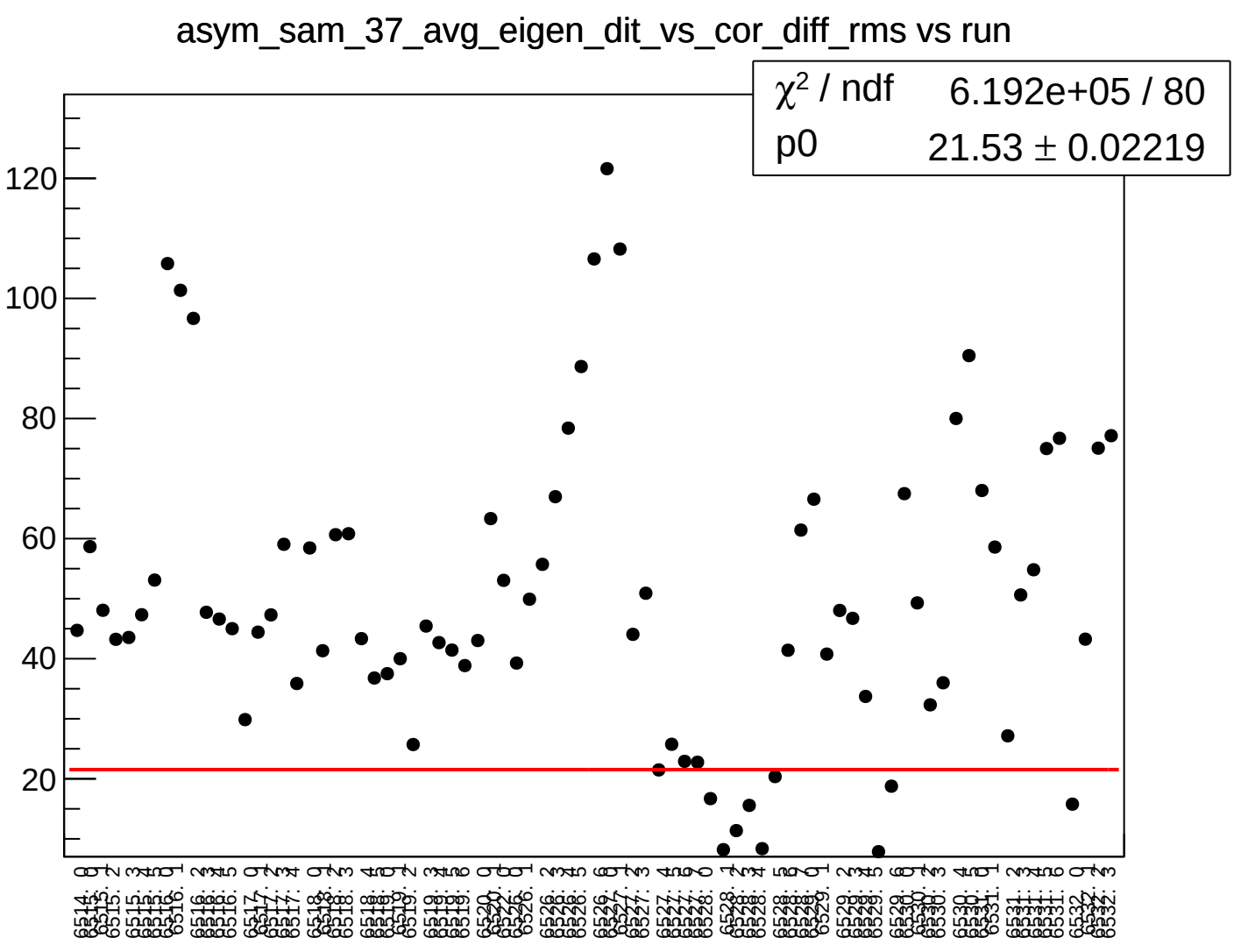

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.191e+05 / 80
p0 21.54 ± 0.02219
120
100
80
60
40
20

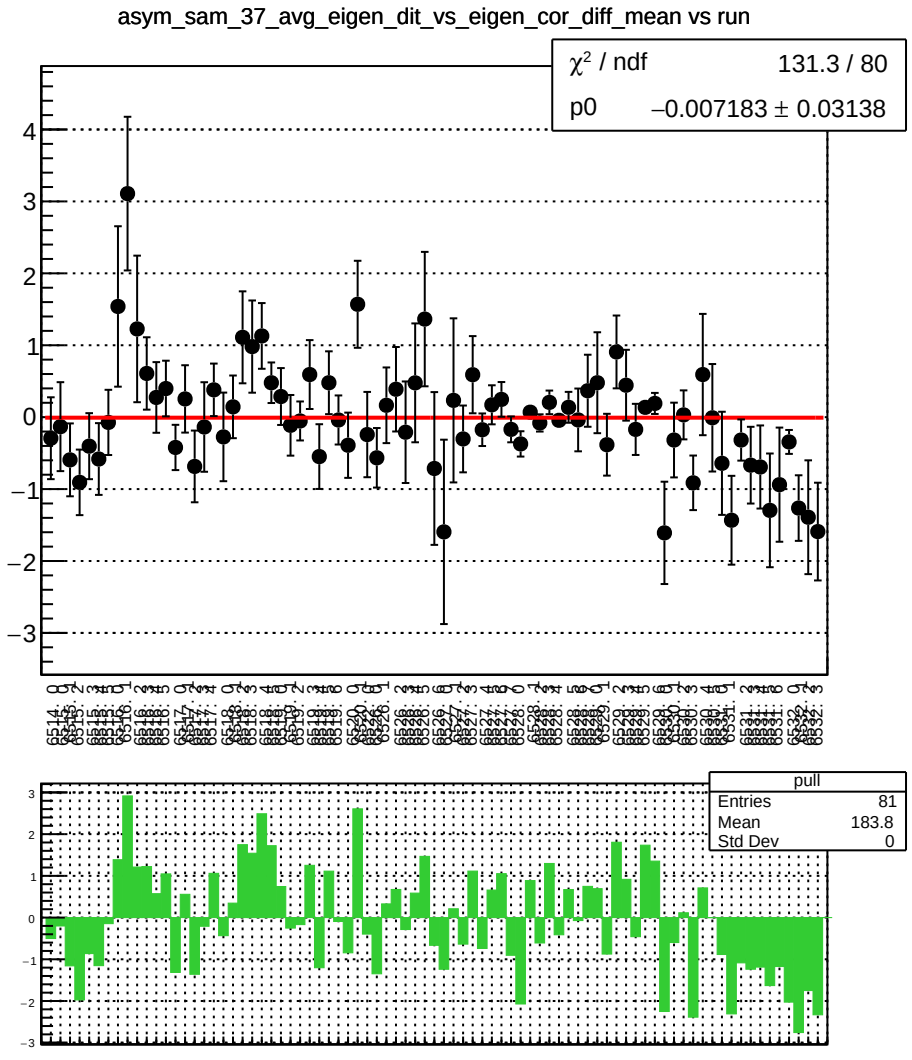

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.29 / 80
p0 −3.129e−06 ± 2.383e−06
pull
Entries 81
Mean 49.74
Std Dev 59.23

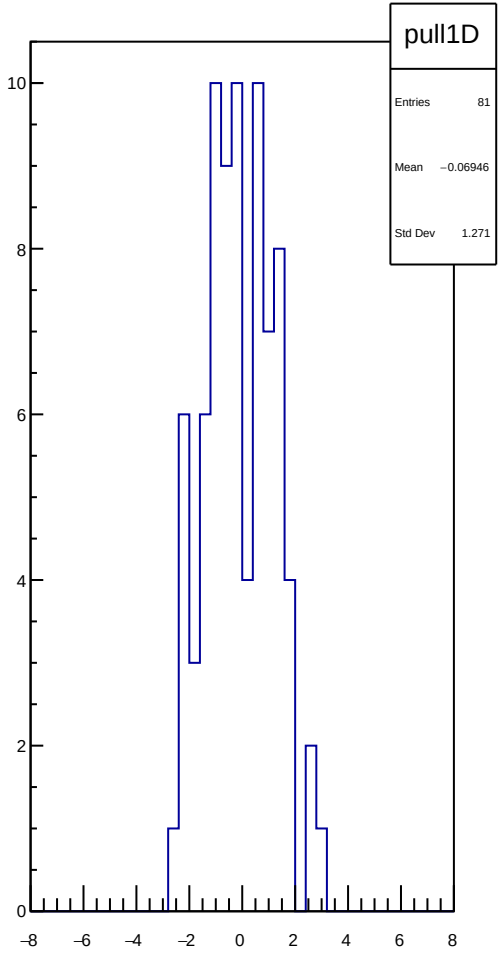

pull1D
Entries 81
Mean 0.02222
Std Dev 1.107

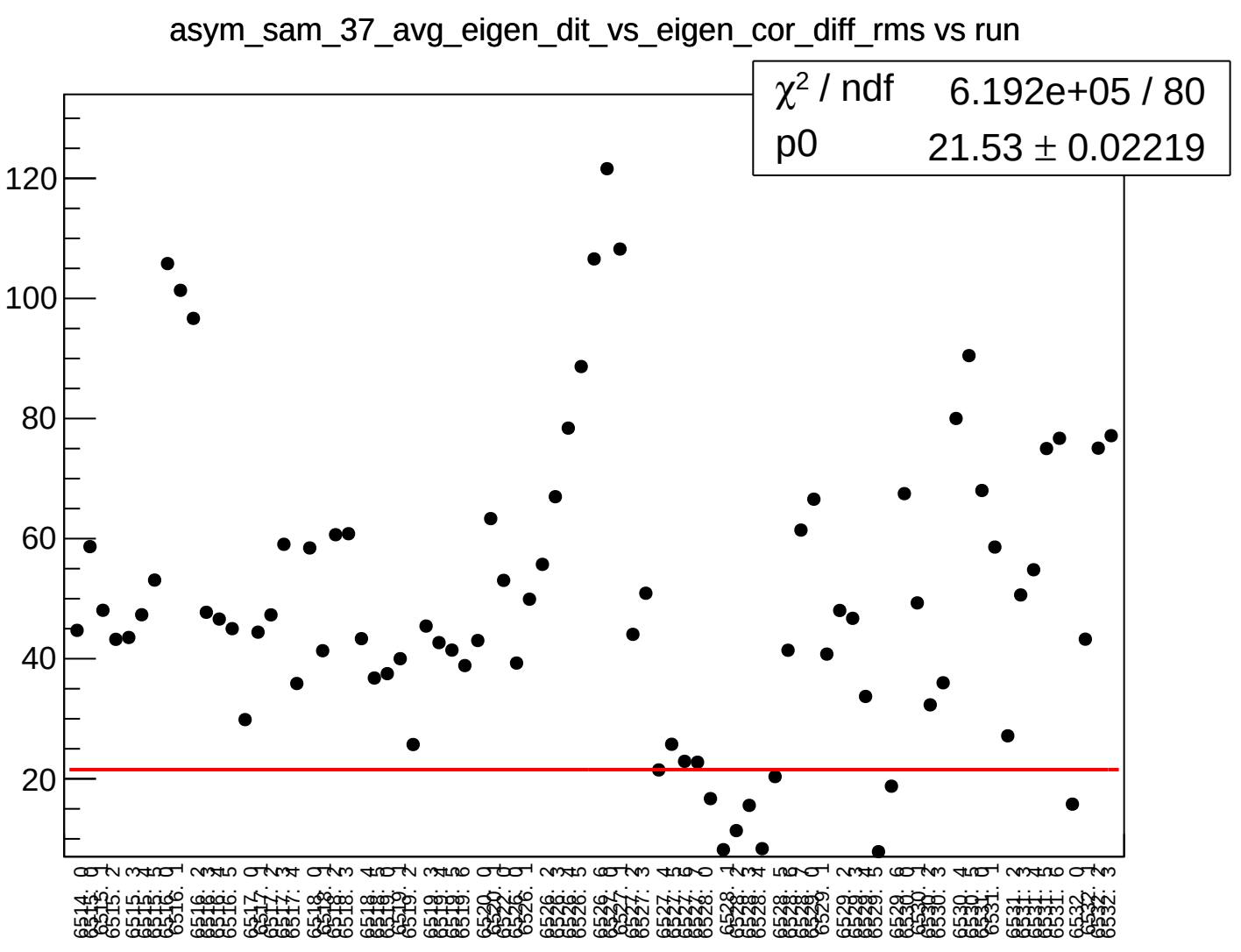

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.623e+04 / 80
p0 0.002081 ± 1.685e−06
0.0026
0.0024
0.0022
0.002
0.0018
0.0016

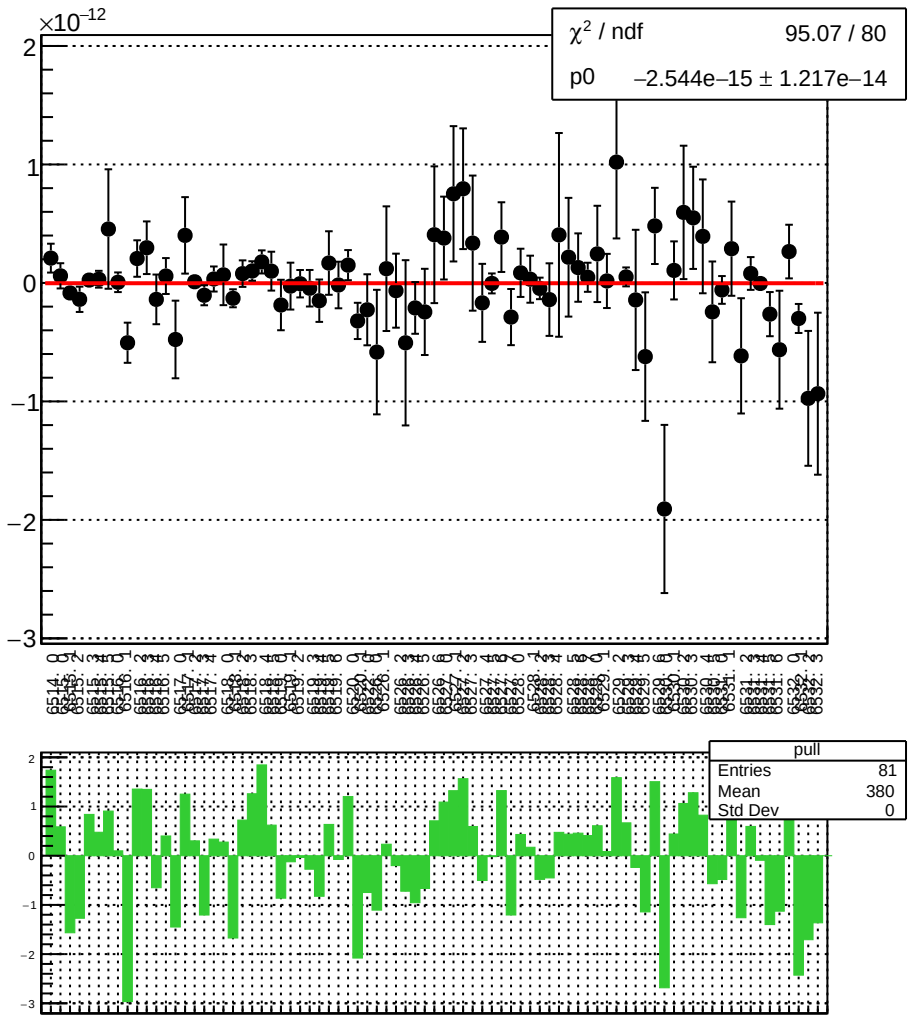

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 131.3 / 80
p0 −0.007183 ± 0.03138
pull
Entries 81
Mean 183.8
Std Dev 0
pull1D
Entries 81
Mean −0.06946
Std Dev 1.271

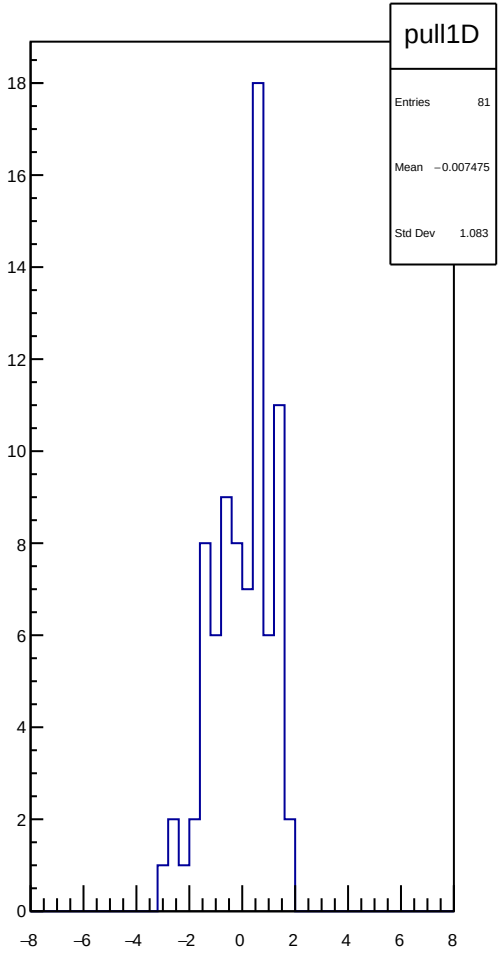

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6.192e+05 / 80
p0 21.53 ± 0.02219
120
100
80
60
40
20

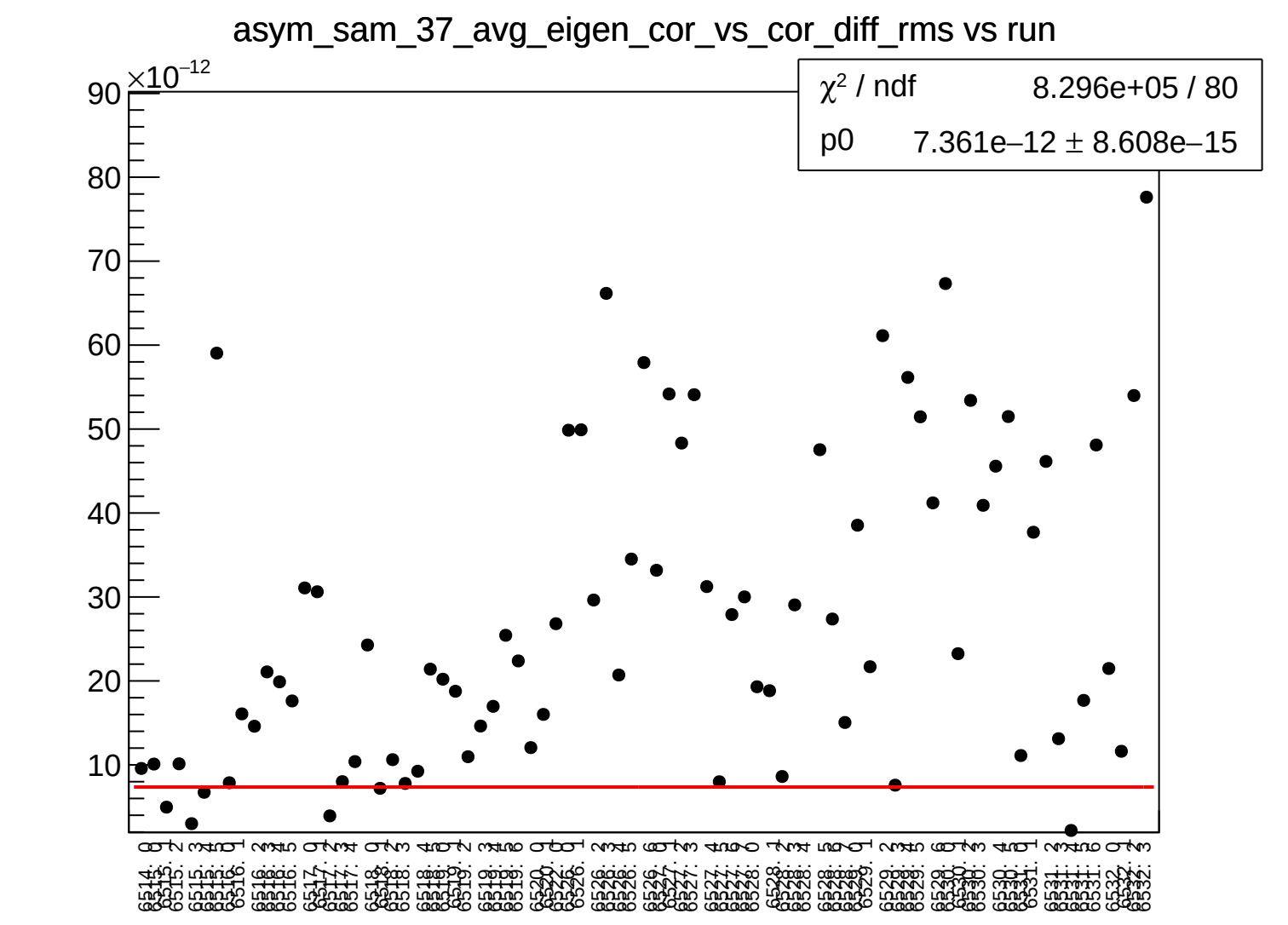

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 131.3 / 80
p0 −0.007183 ± 0.03138
pull
Entries 81
Mean 183.8
Std Dev 0

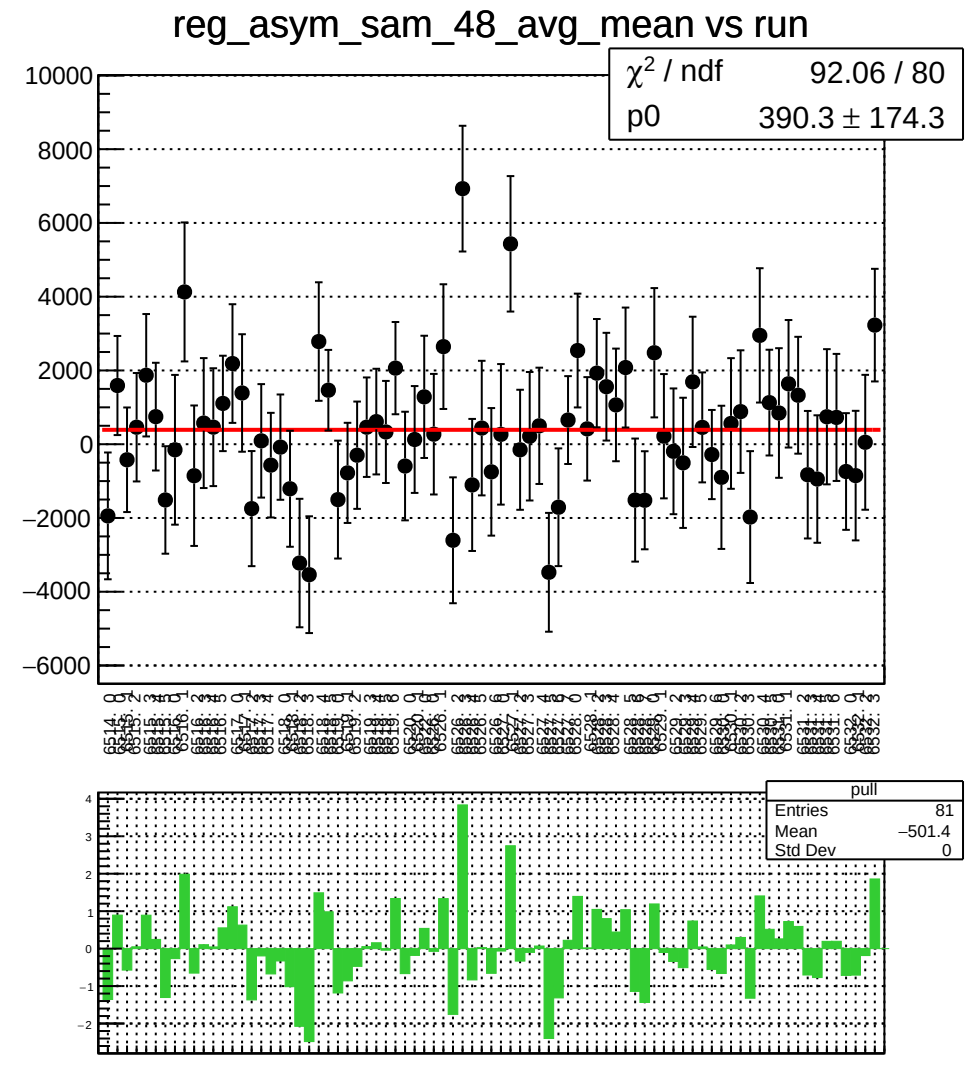

pull1D
Entries 81
Mean −0.06946
Std Dev 1.271

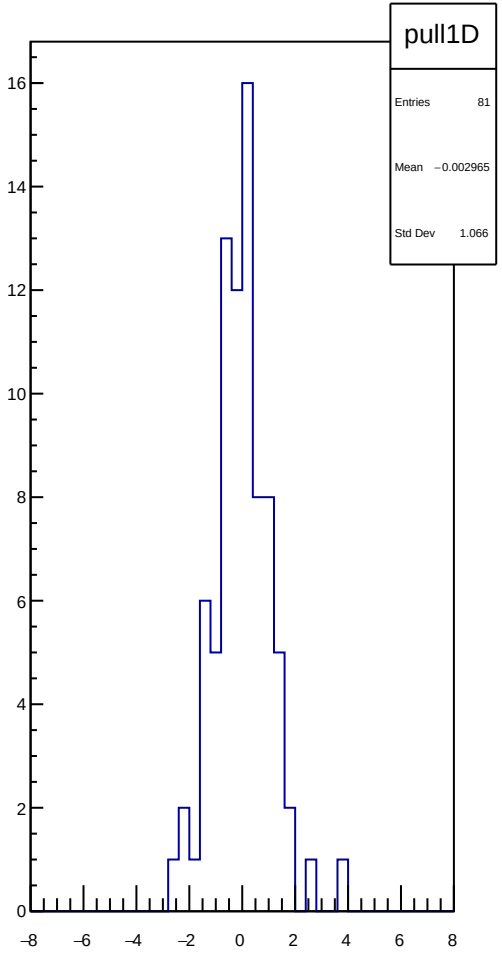

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.192e+05 / 80
p0 21.53 ± 0.02219
120
100
80
60
40
20

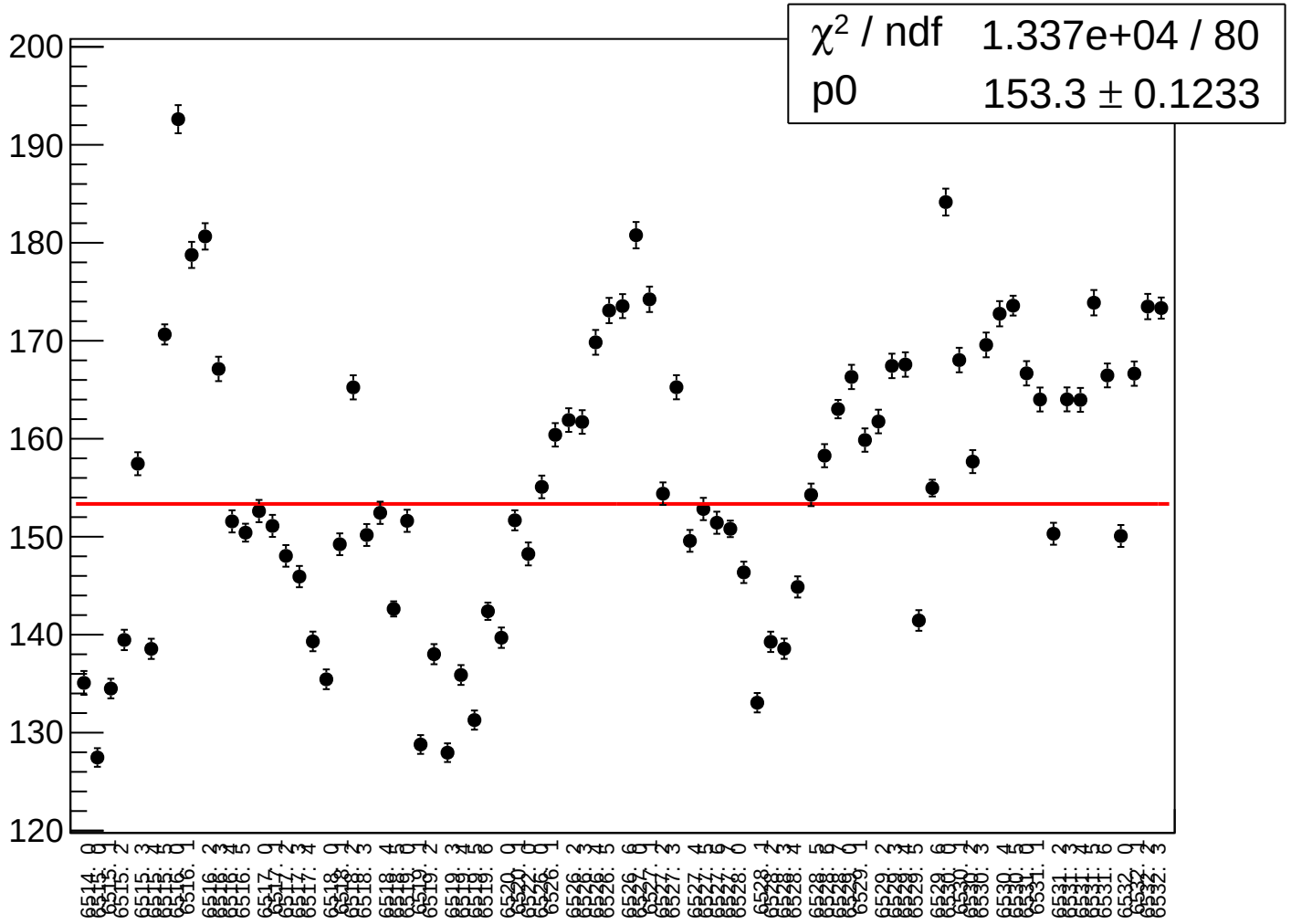

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.07 / 80
p0 −2.544e−15 ± 1.217e−14
pull
Entries 81
Mean 380
Std Dev 0

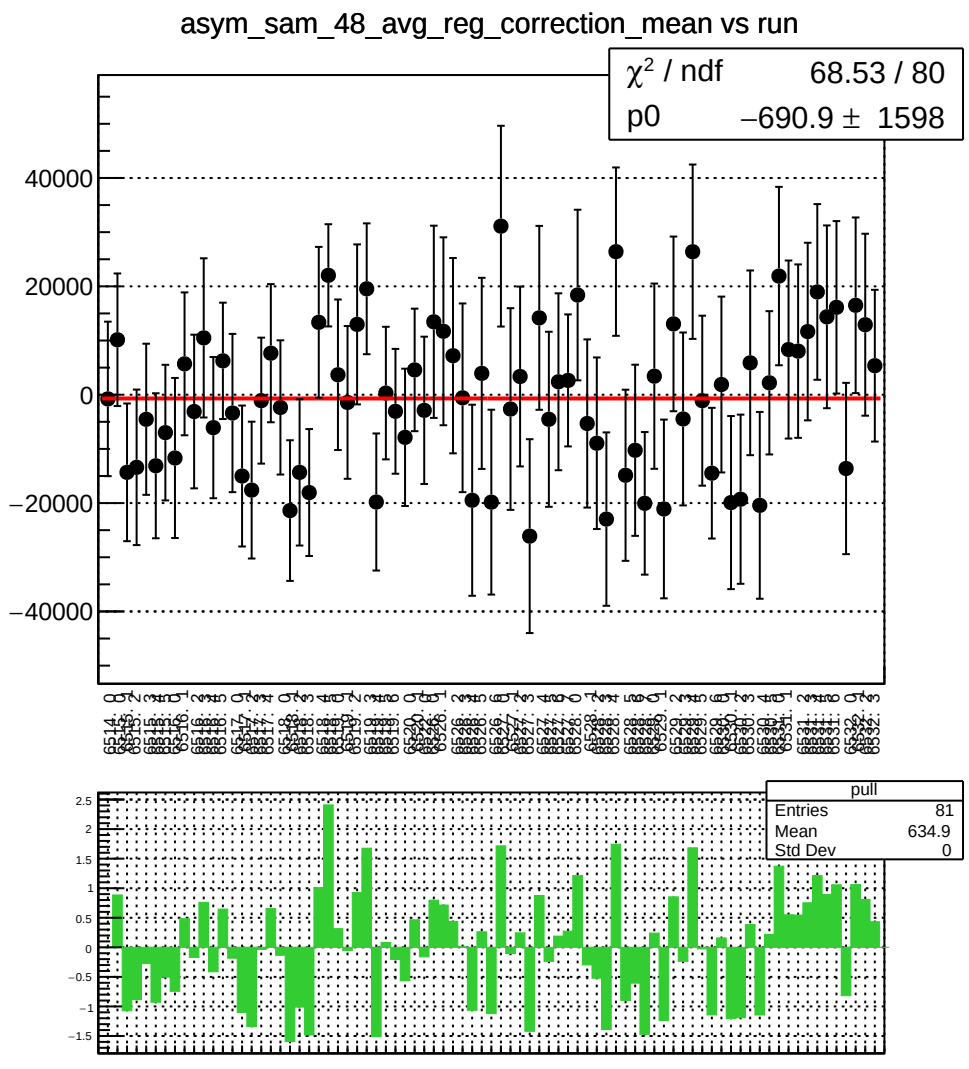

pull1D
Entries 81
Mean −0.007475
Std Dev 1.083

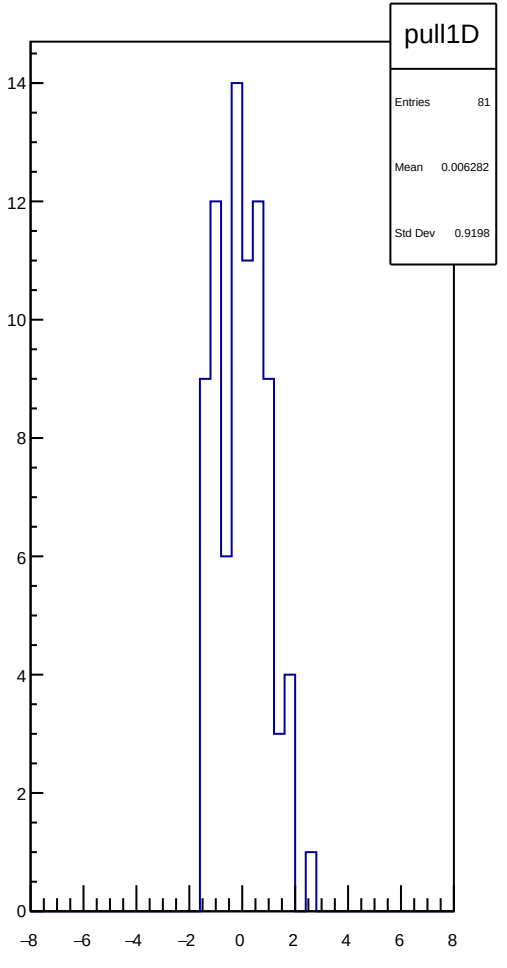

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 8.296e+05 / 80
p0 7.361e−12 ± 8.608e−15
90
80
70
60
50
40
30
20
10

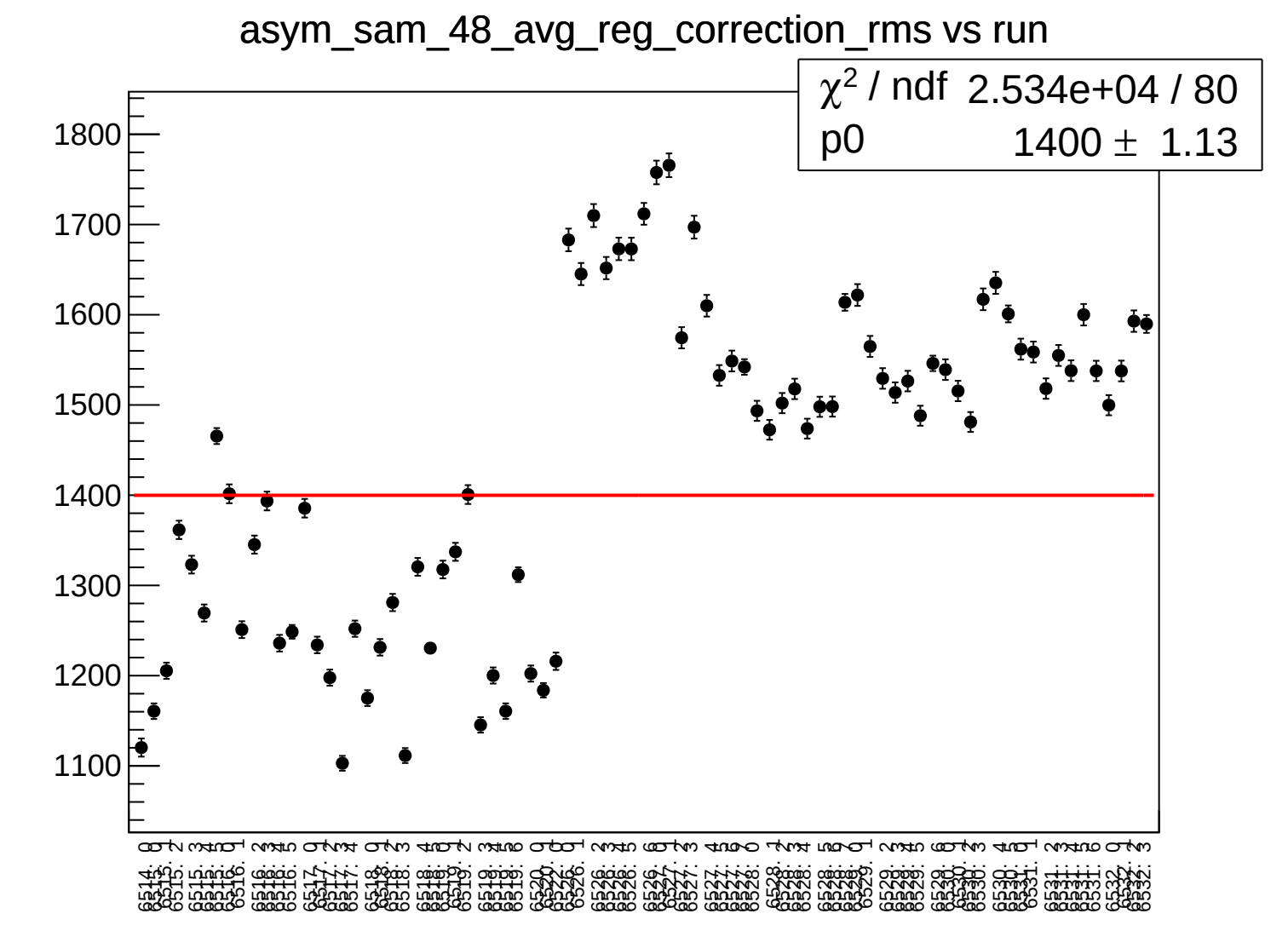

reg_asym_sam_48_avg_mean vs run
χ² / ndf 92.06 / 80
p0 390.3 ± 174.3
pull
Entries 81
Mean −501.4
Std Dev 0

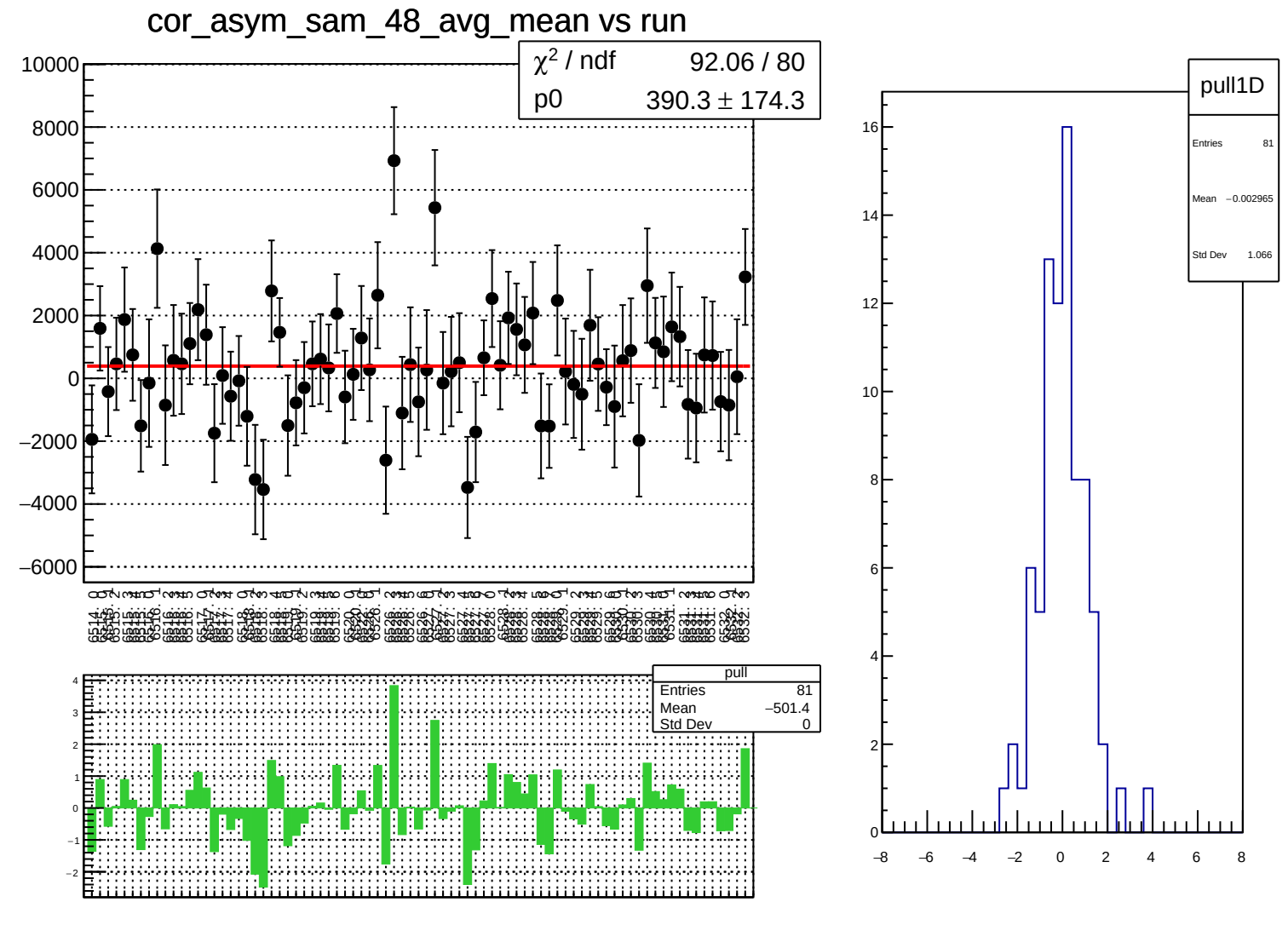

pull1D
Entries 81
Mean −0.002965
Std Dev 1.066

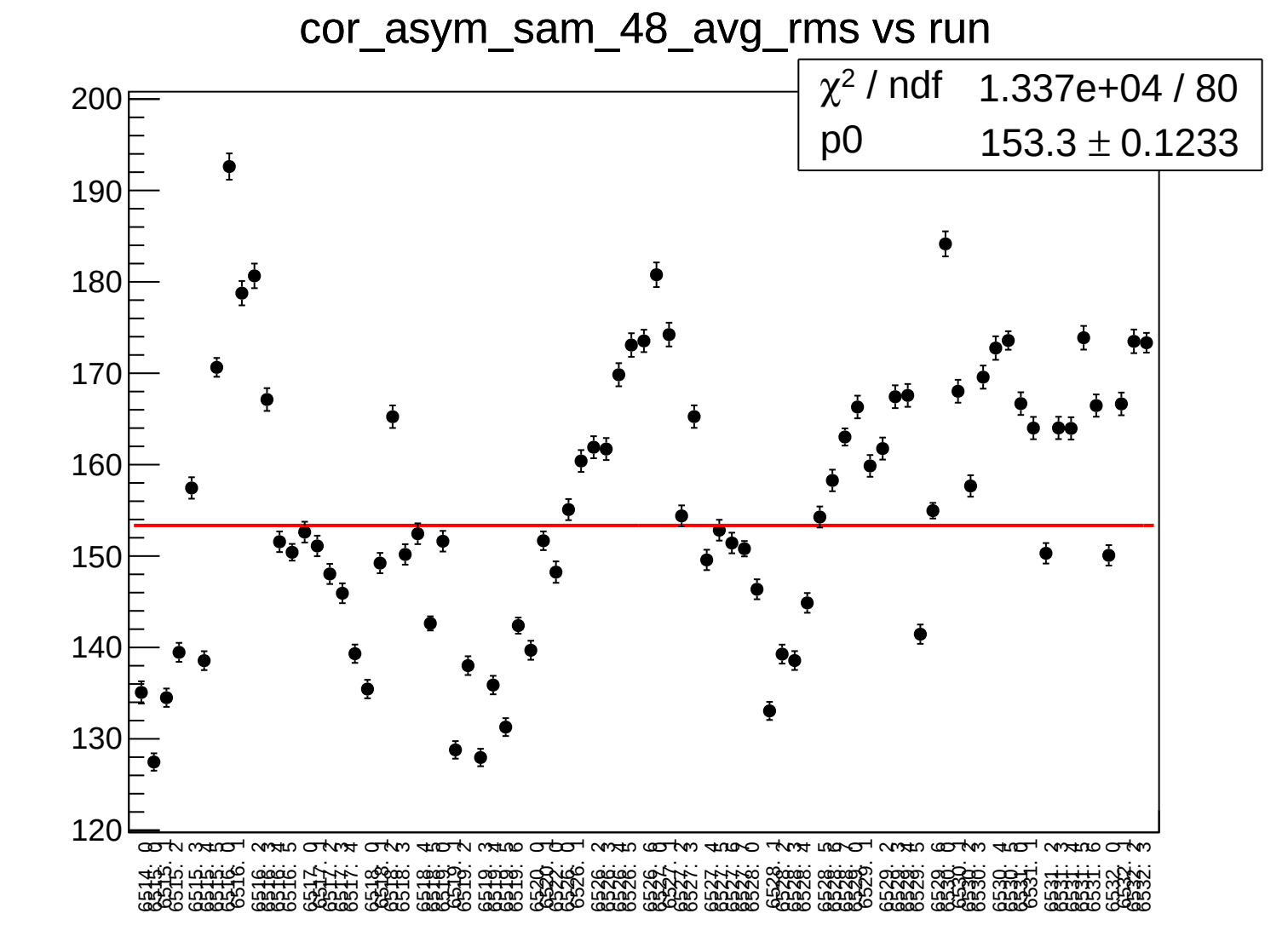

reg_asym_sam_48_avg_rms vs run
χ² / ndf 1.337e+04 / 80
p0 153.3 ± 0.1233
200
190
180
170
160
150
140
130
120

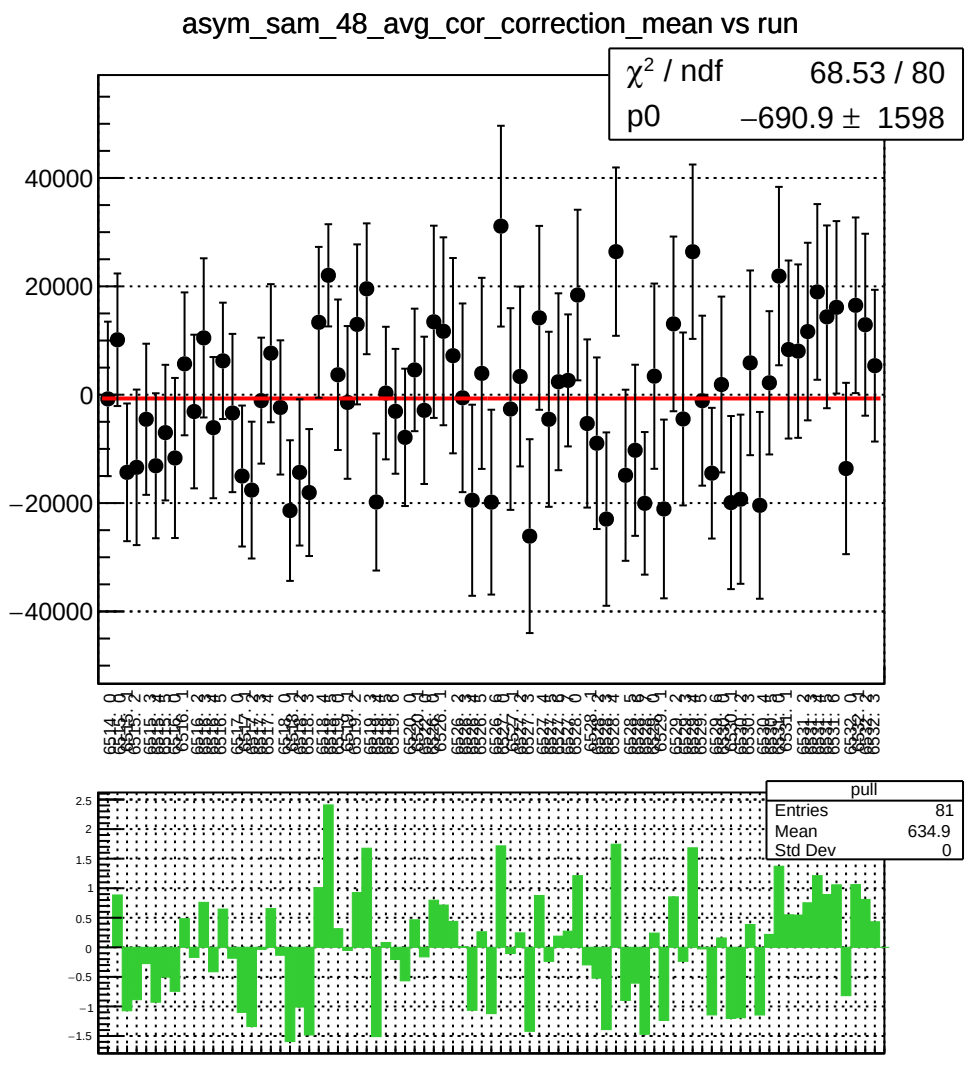

asym_sam_48_avg_reg_correction_mean vs run
χ² / ndf 68.53 / 80
p0 −690.9 ± 1598
40000
20000
0
−20000
−40000
pull
Entries 81
Mean 634.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

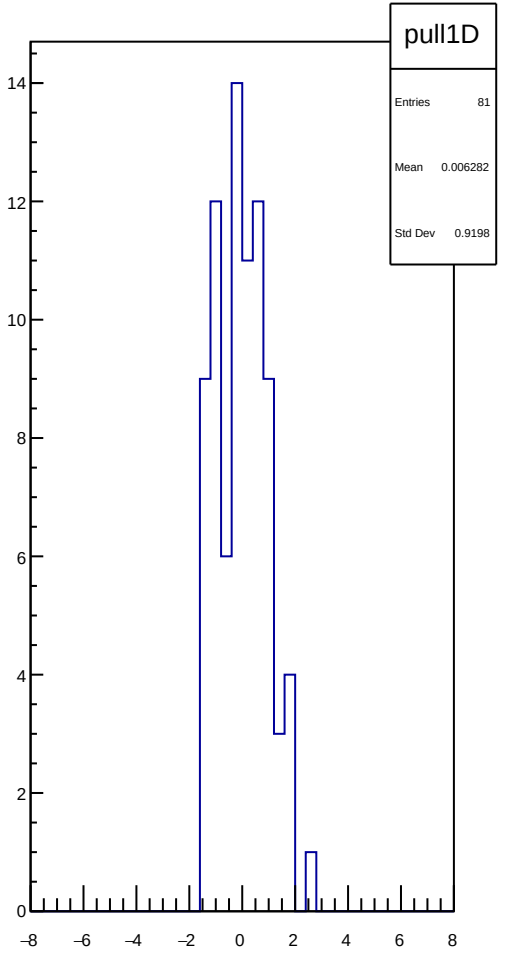

pull1D
Entries 81
Mean 0.006282
Std Dev 0.9198
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

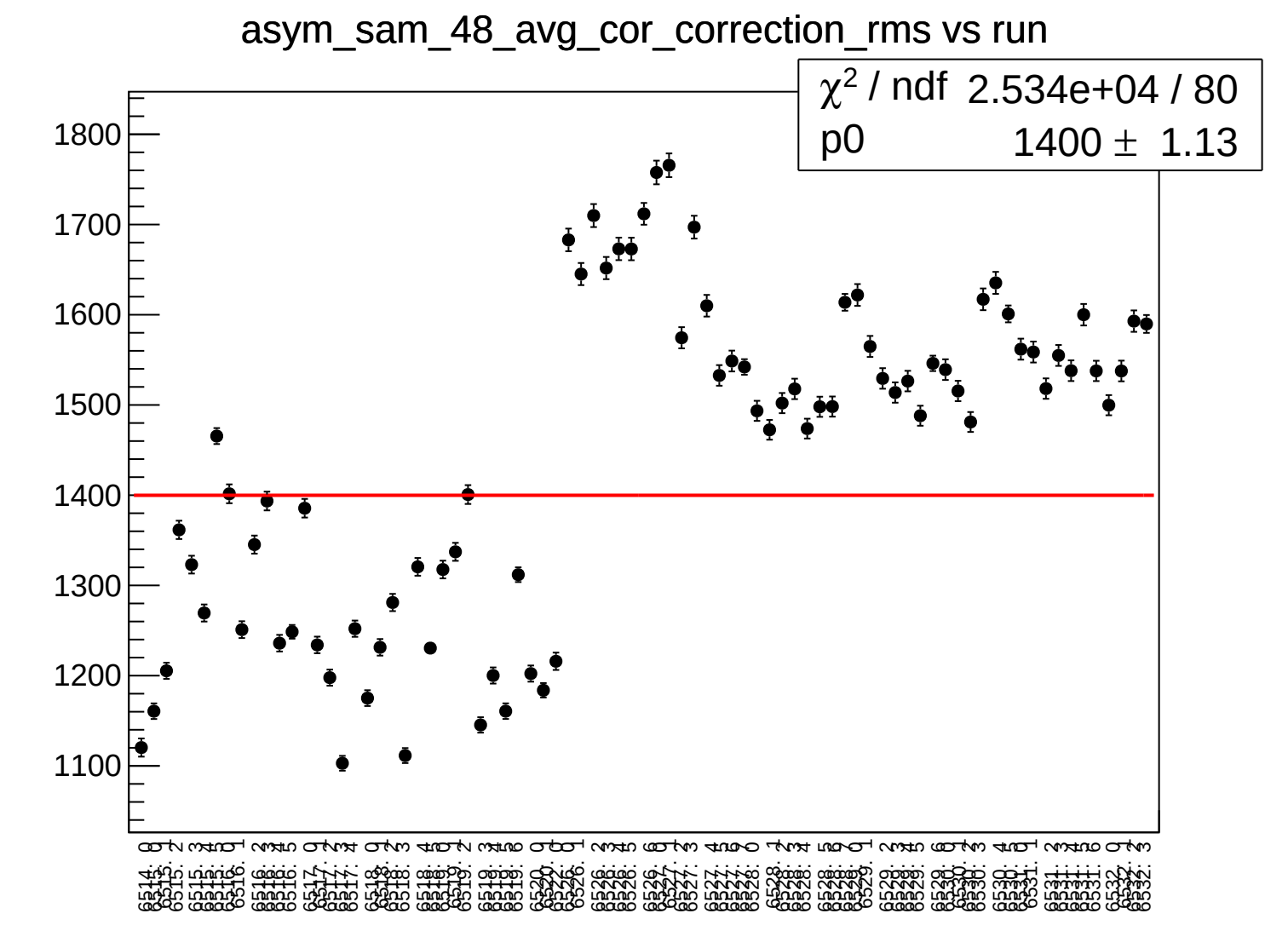

asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 2.534e+04 / 80
p0 1400 ± 1.13
1800
1700
1600
1500
1400
1300
1200
1100

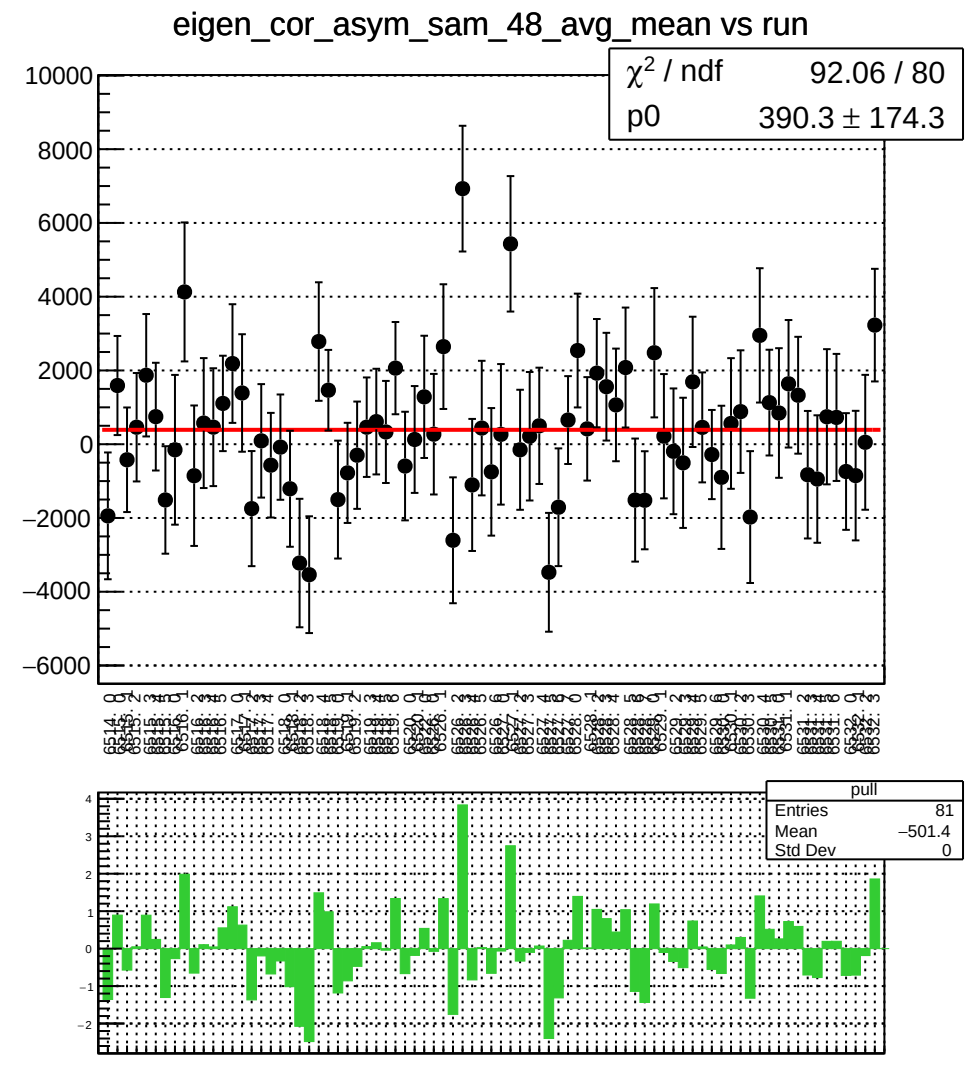

cor_asym_sam_48_avg_mean vs run
χ² / ndf 92.06 / 80
p0 390.3 ± 174.3
pull
Entries 81
Mean −501.4
Std Dev 0
pull1D
Entries 81
Mean −0.002965
Std Dev 1.066

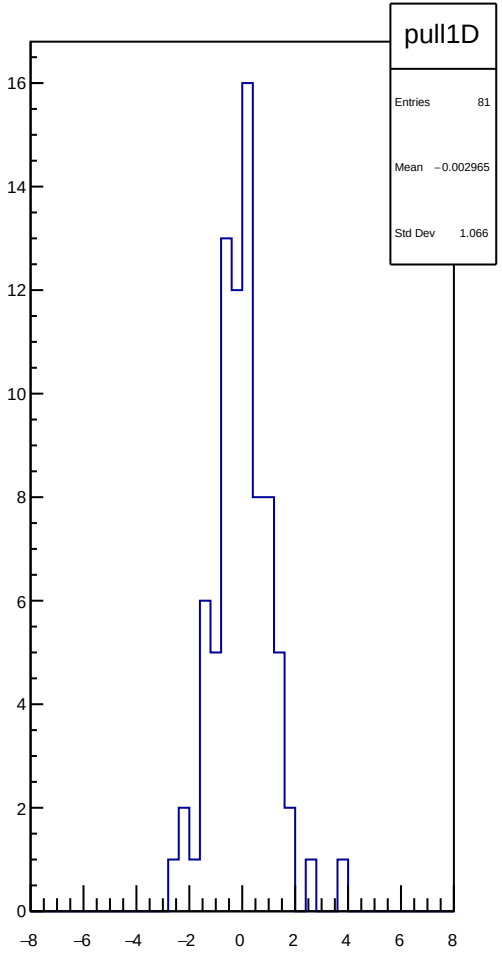

cor_asym_sam_48_avg_rms vs run
χ² / ndf 1.337e+04 / 80
p0 153.3 ± 0.1233
200
190
180
170
160
150
140
130
120

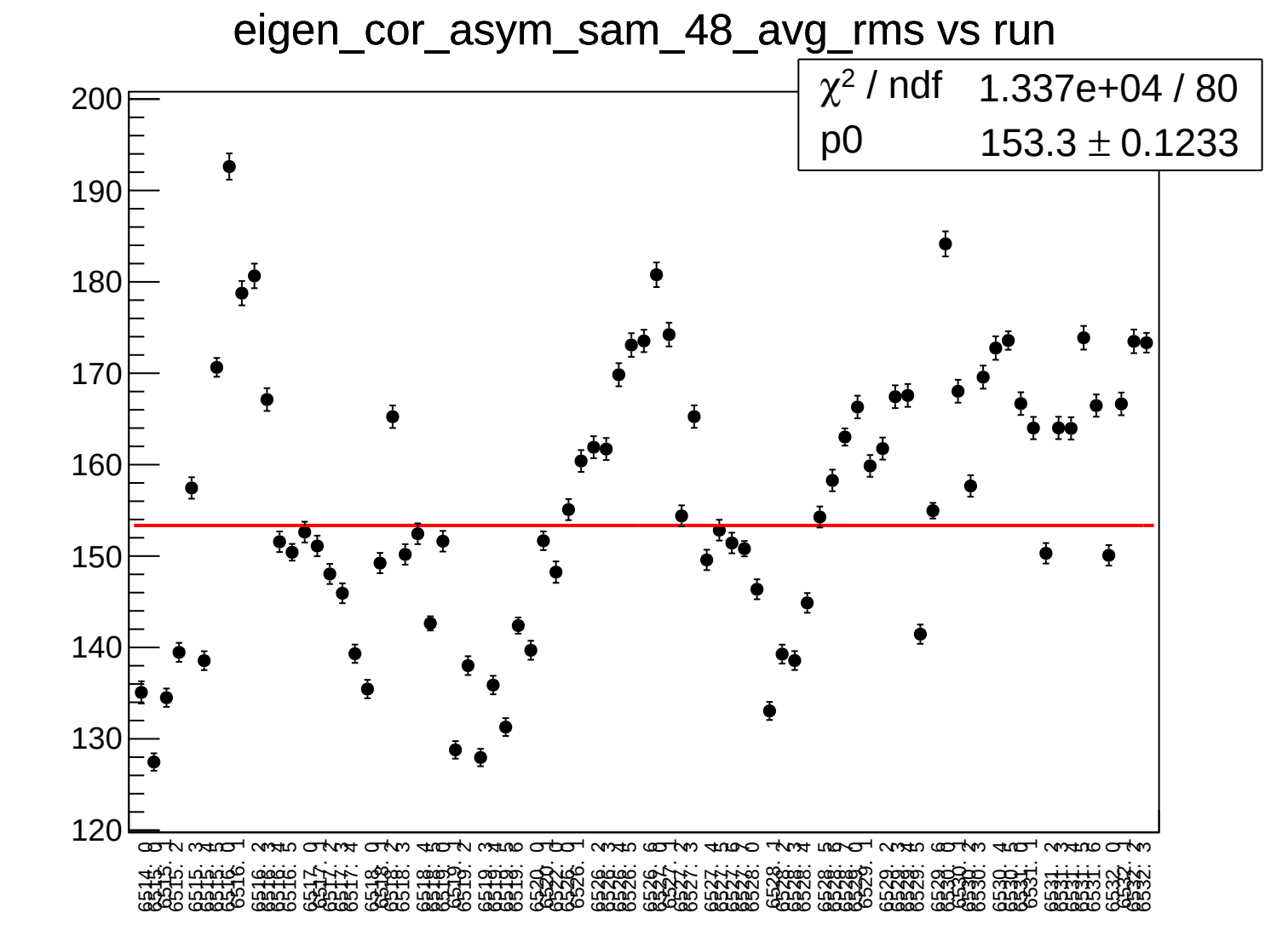

asym_sam_48_avg_cor_correction_mean vs run
χ² / ndf 68.53 / 80
p0 −690.9 ± 1598
40000
20000
0
−20000
−40000
pull
Entries 81
Mean 634.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

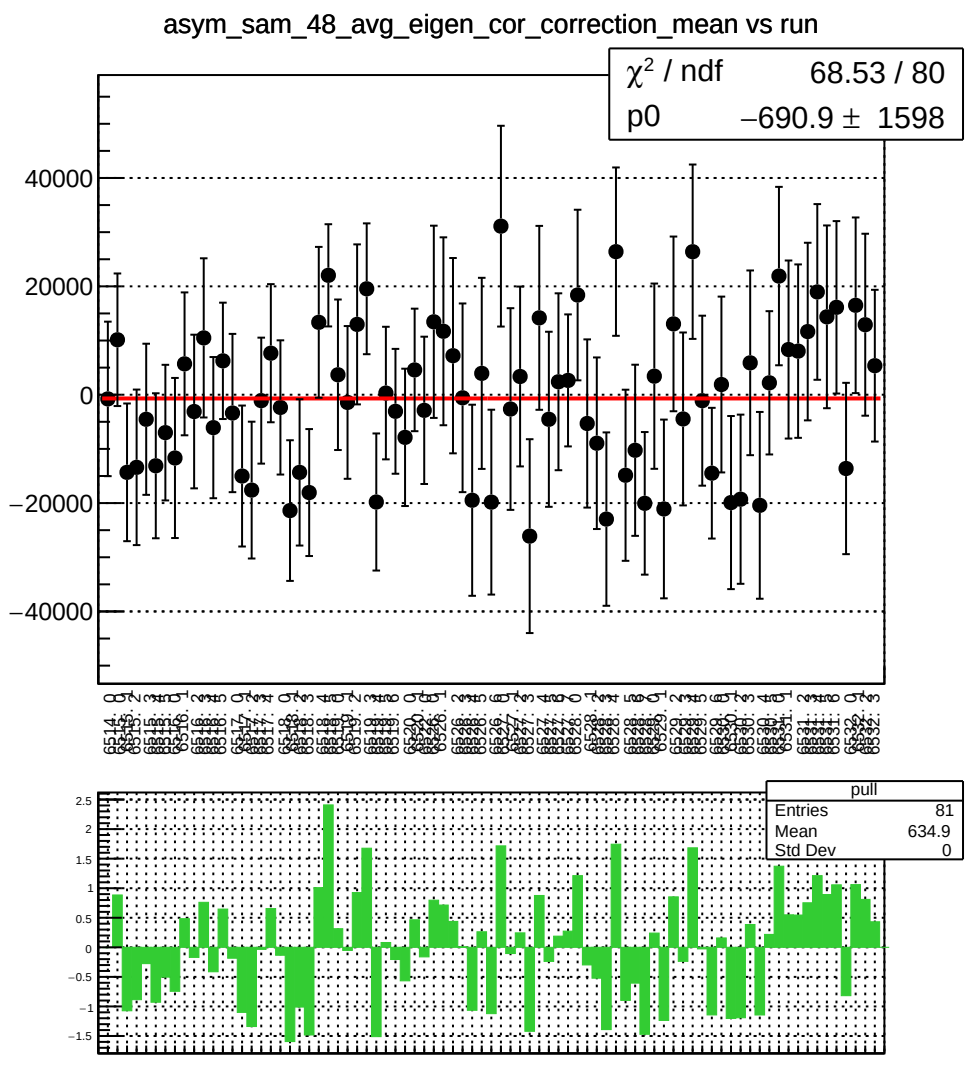

pull1D
Entries 81
Mean 0.006282
Std Dev 0.9198
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

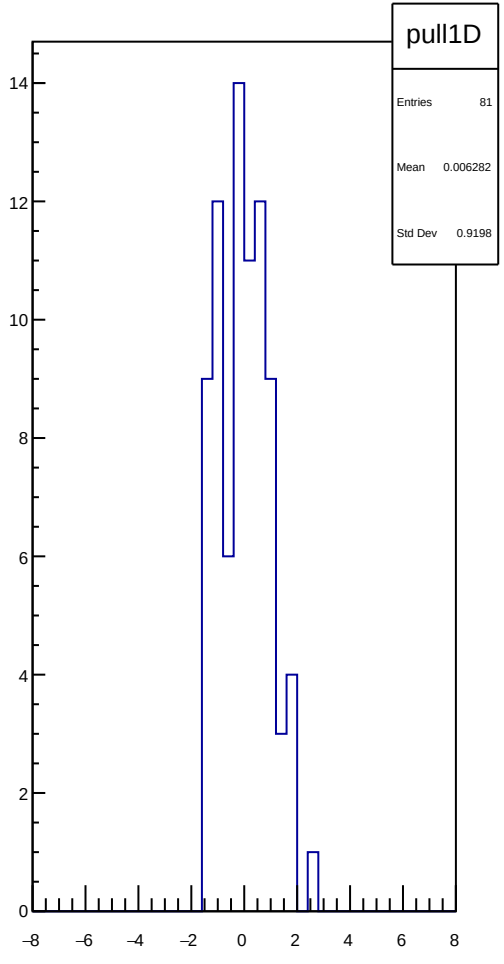

asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 2.534e+04 / 80
p0 1400 ± 1.13
1800
1700
1600
1500
1400
1300
1200
1100

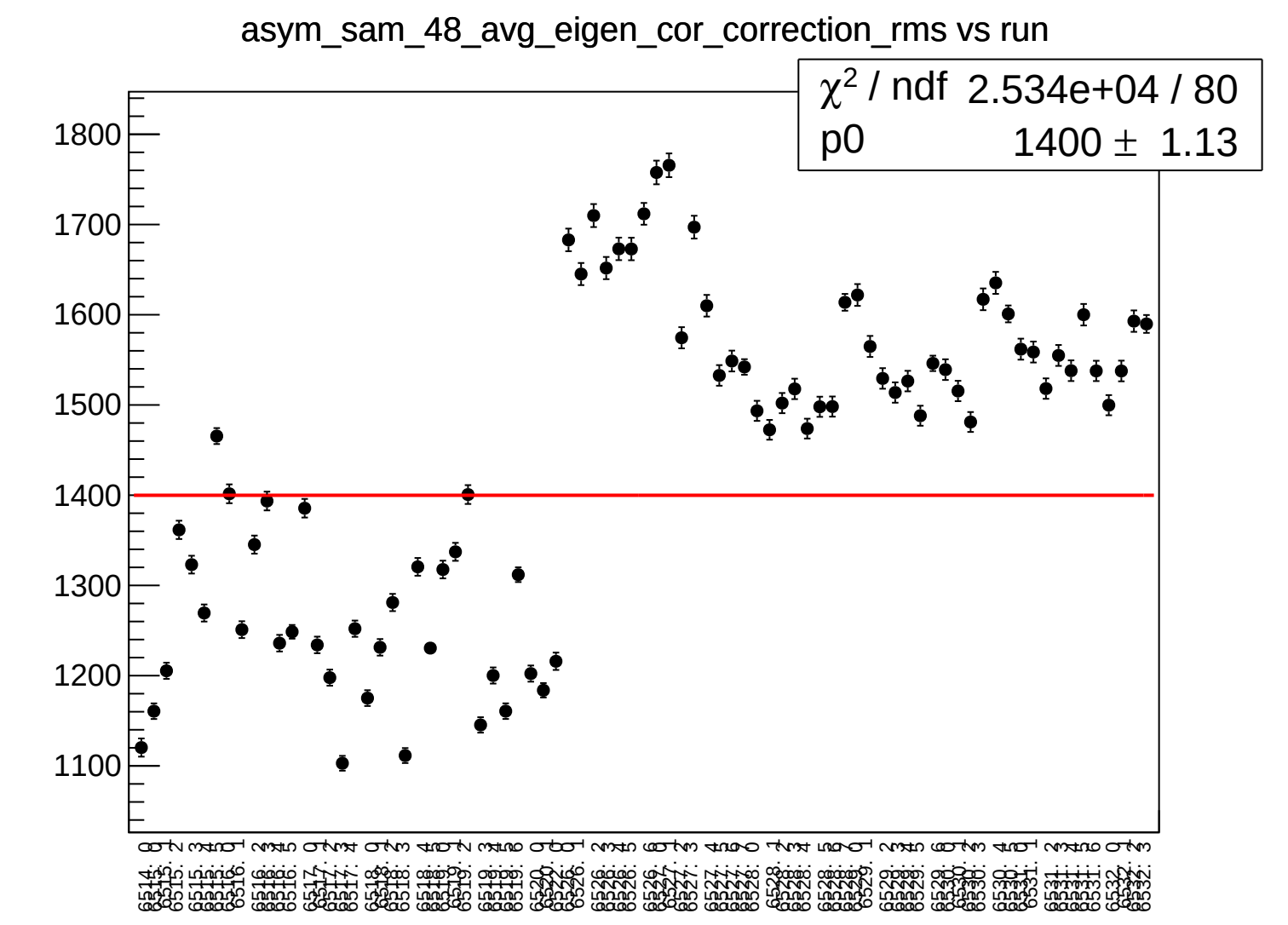

eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 92.06 / 80
p0 390.3 ± 174.3
pull
Entries 81
Mean −501.4
Std Dev 0

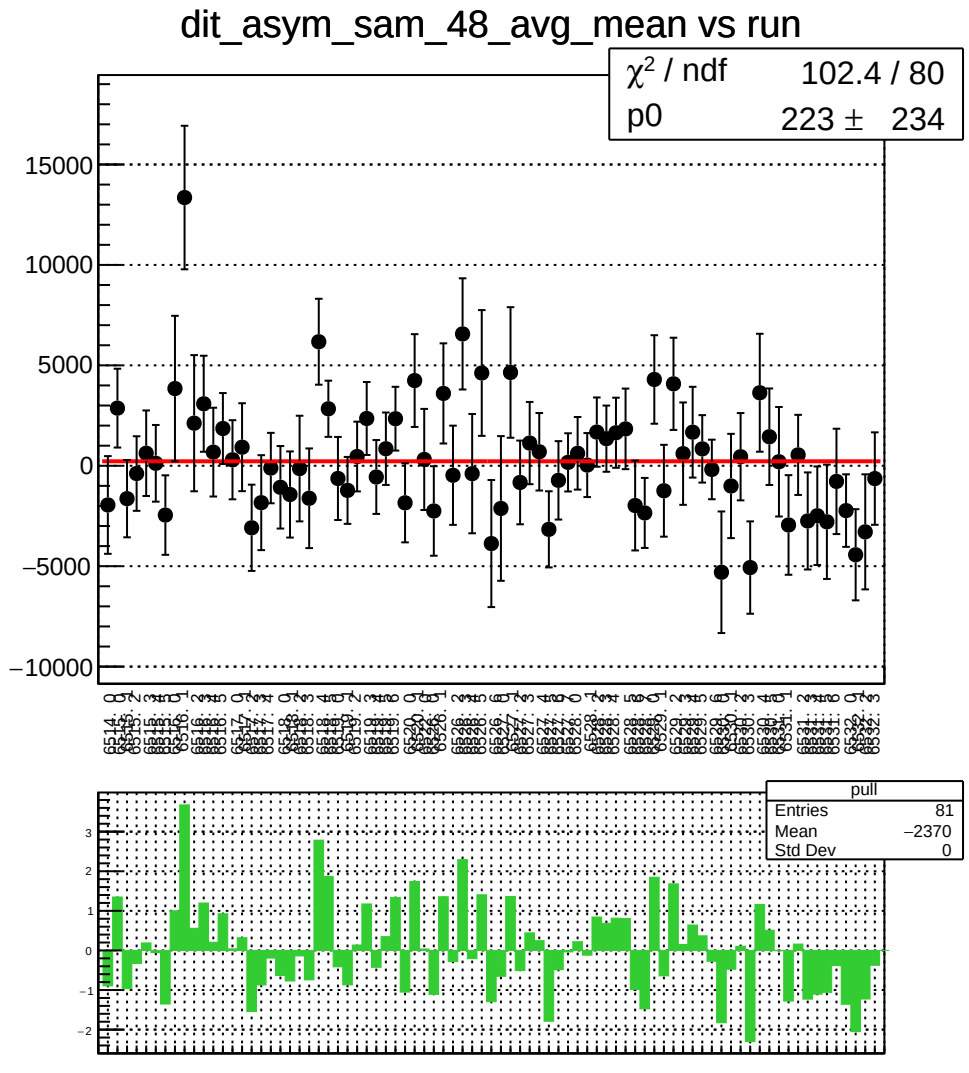

pull1D
Entries 81
Mean −0.002965
Std Dev 1.066

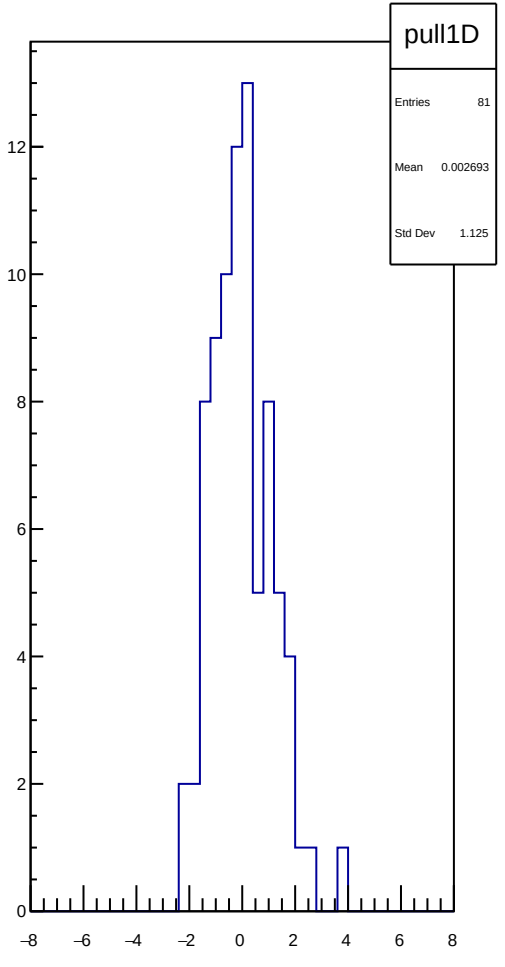

eigen_cor_asym_sam_48_avg_rms vs run
χ² / ndf 1.337e+04 / 80
p0 153.3 ± 0.1233
200
190
180
170
160
150
140
130
120

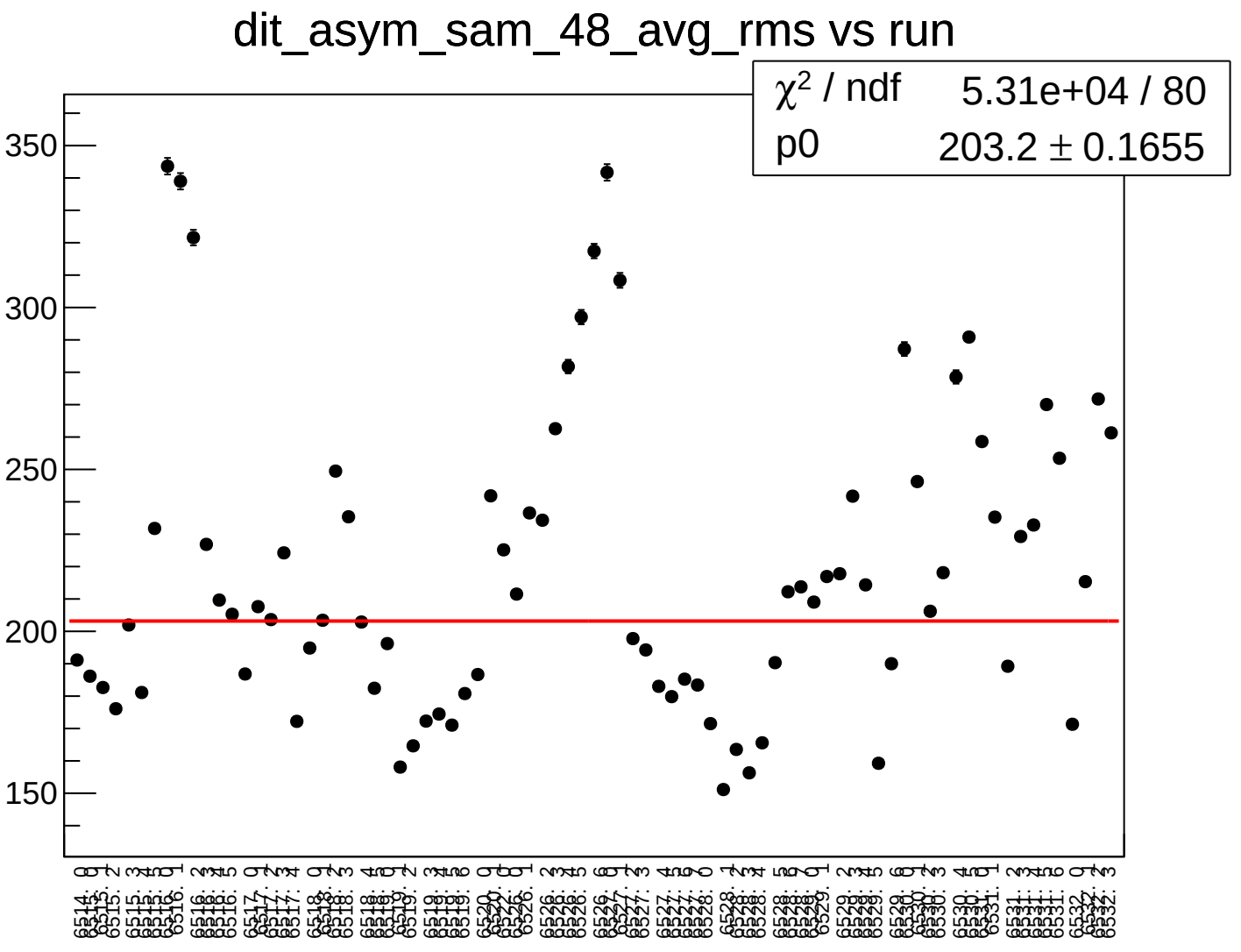

asym_sam_48_avg_eigen_cor_correction_mean vs run
χ² / ndf 68.53 / 80
p0 −690.9 ± 1598
40000
20000
0
−20000
−40000
pull
Entries 81
Mean 634.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

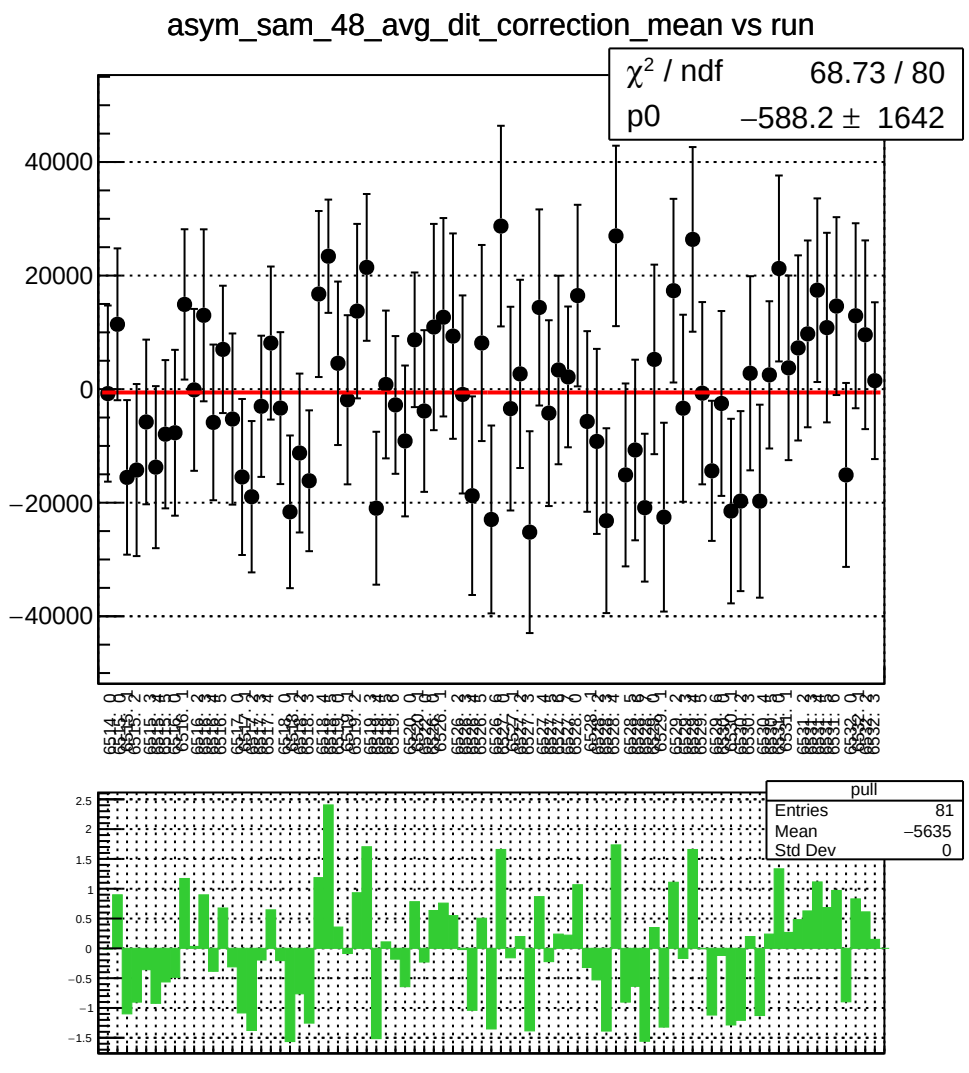

pull1D
Entries 81
Mean 0.006282
Std Dev 0.9198
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

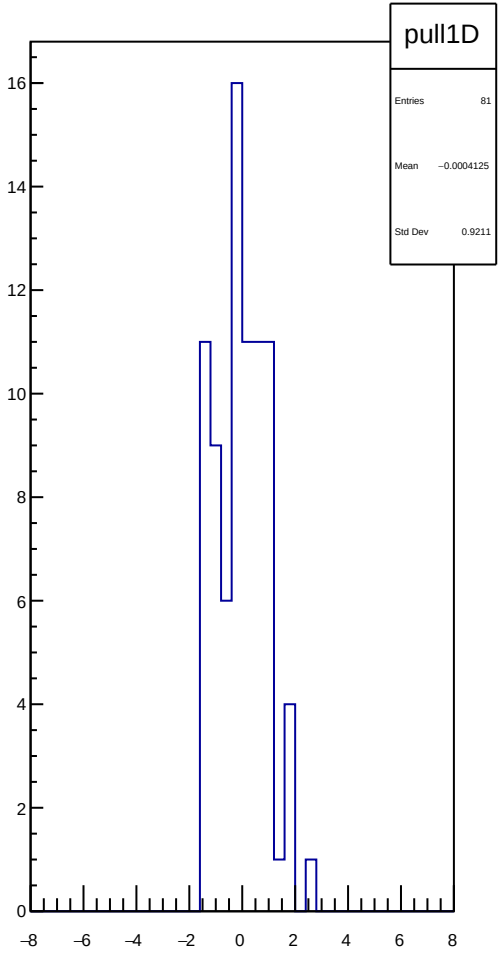

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.534e+04 / 80
p0 1400 ± 1.13
1800
1700
1600
1500
1400
1300
1200
1100

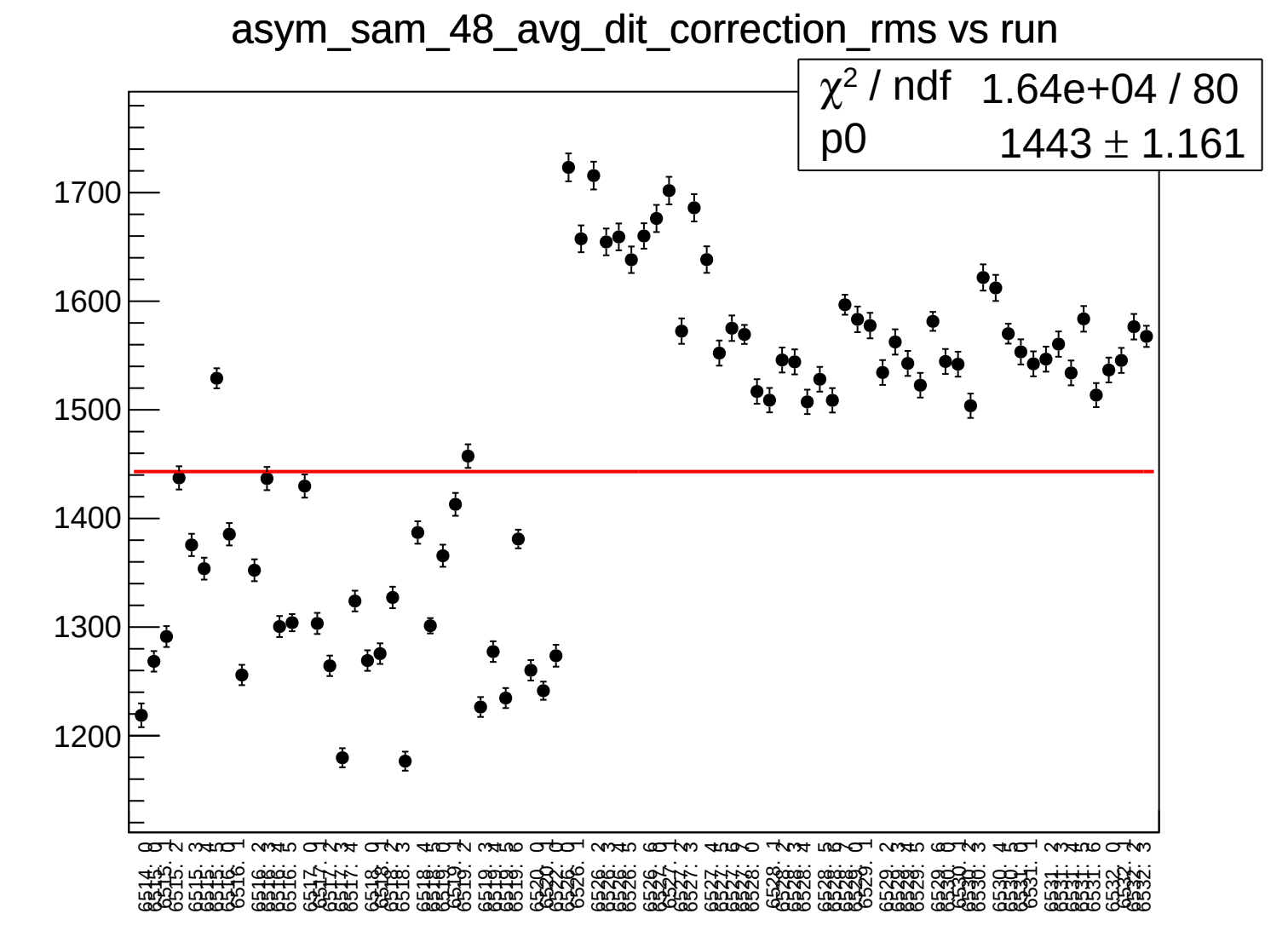

dit_asym_sam_48_avg_mean vs run
χ² / ndf 102.4 / 80
p0 223 ± 234
15000
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −2370
Std Dev 0
3
2
1
0
−1
−2

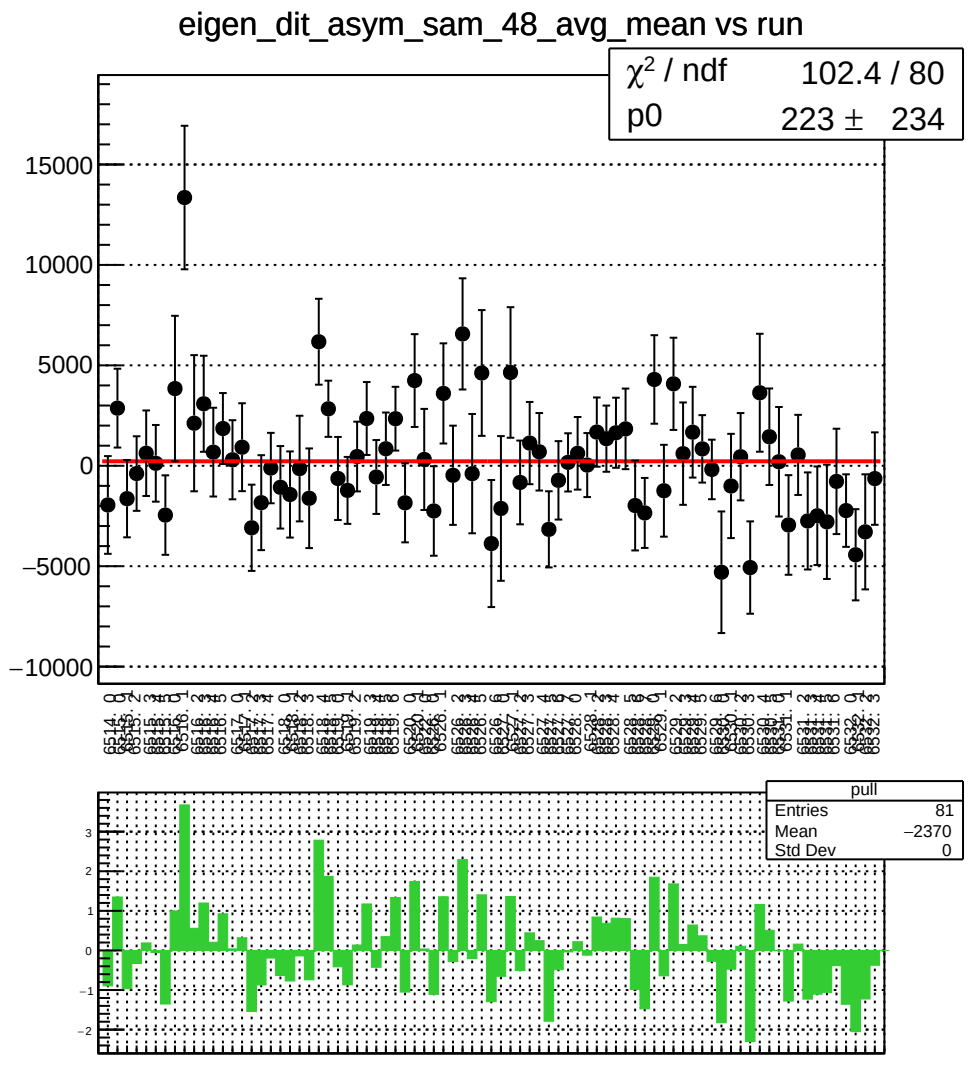

pull1D
Entries 81
Mean 0.002693
Std Dev 1.125
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

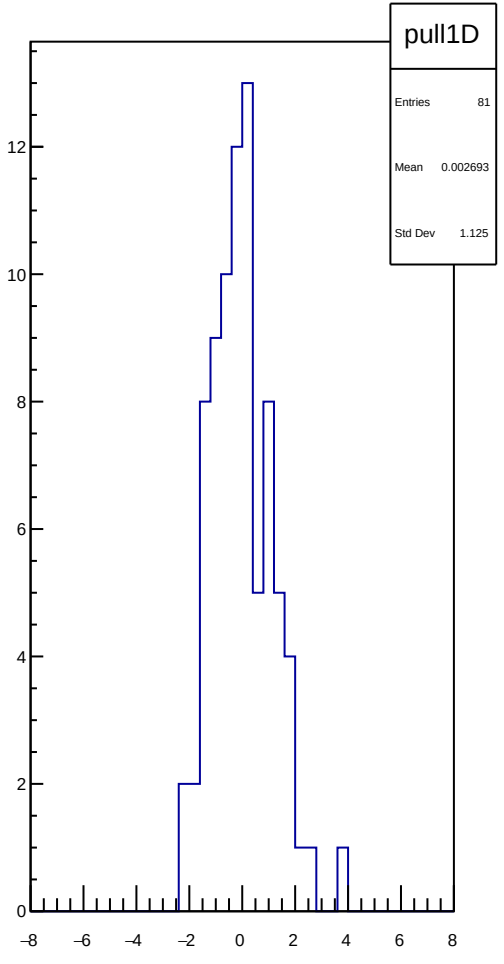

dit_asym_sam_48_avg_rms vs run
χ² / ndf 5.31e+04 / 80
p0 203.2 ± 0.1655
350
300
250
200
150

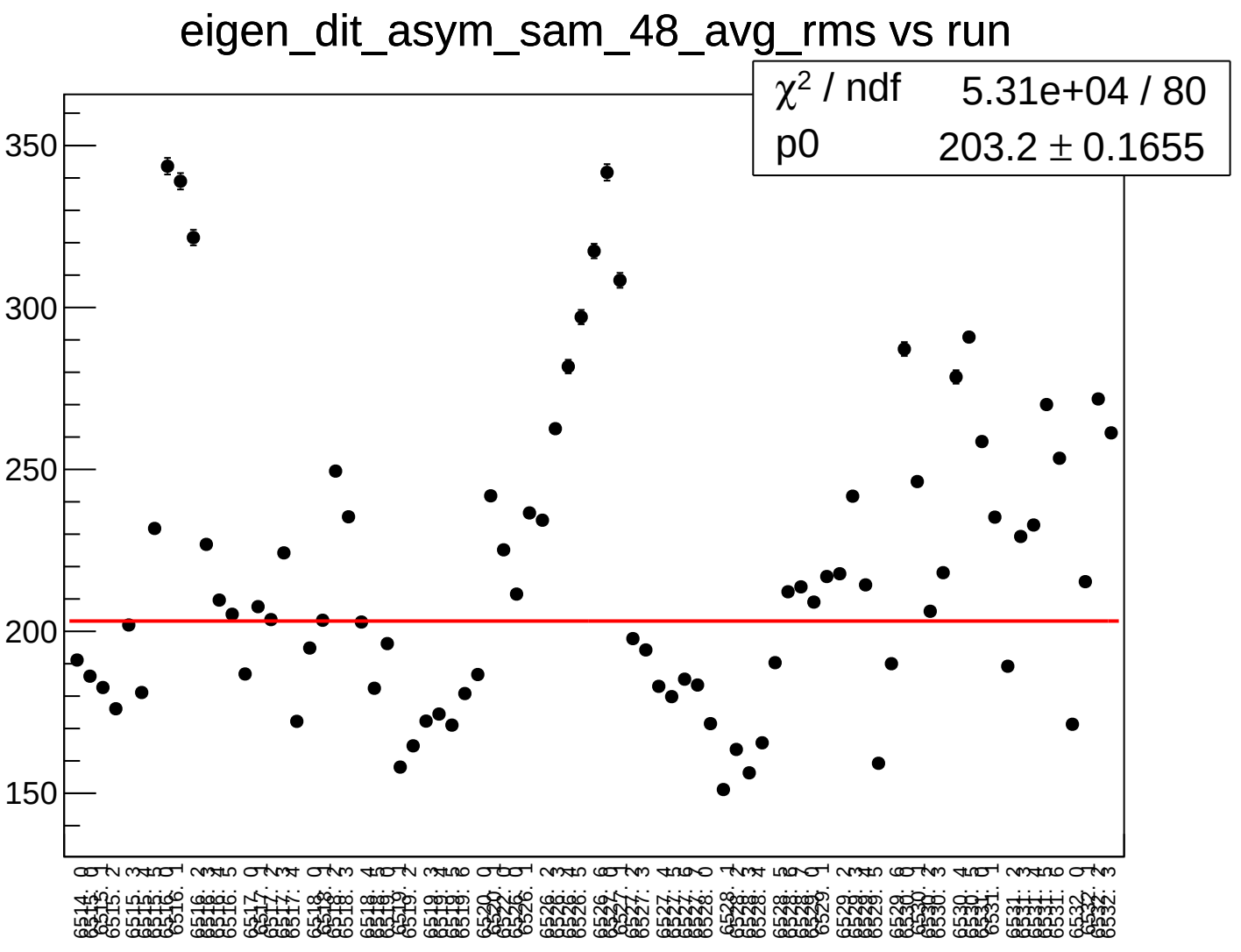

asym_sam_48_avg_dit_correction_mean vs run
χ² / ndf 68.73 / 80
p0 −588.2 ± 1642
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −5635
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

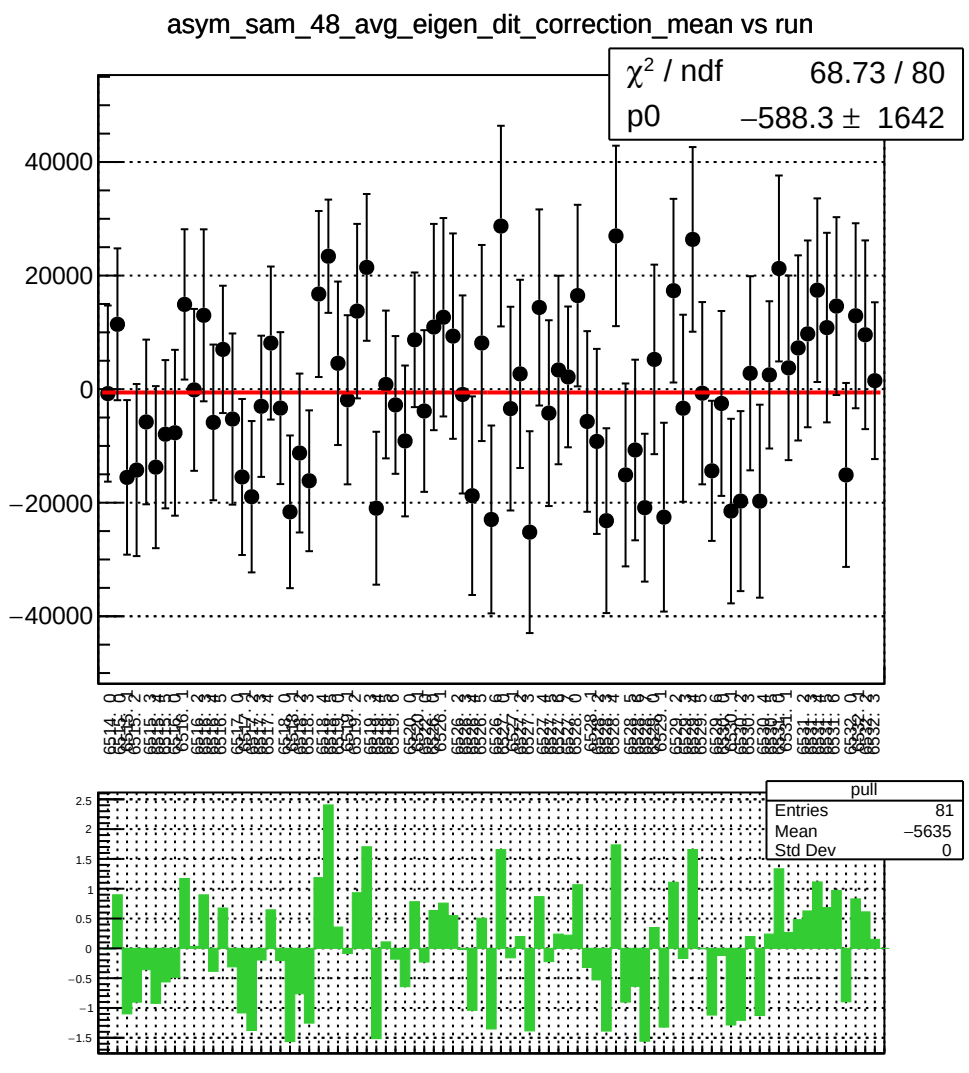

pull1D
Entries 81
Mean −0.0004125
Std Dev 0.9211
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

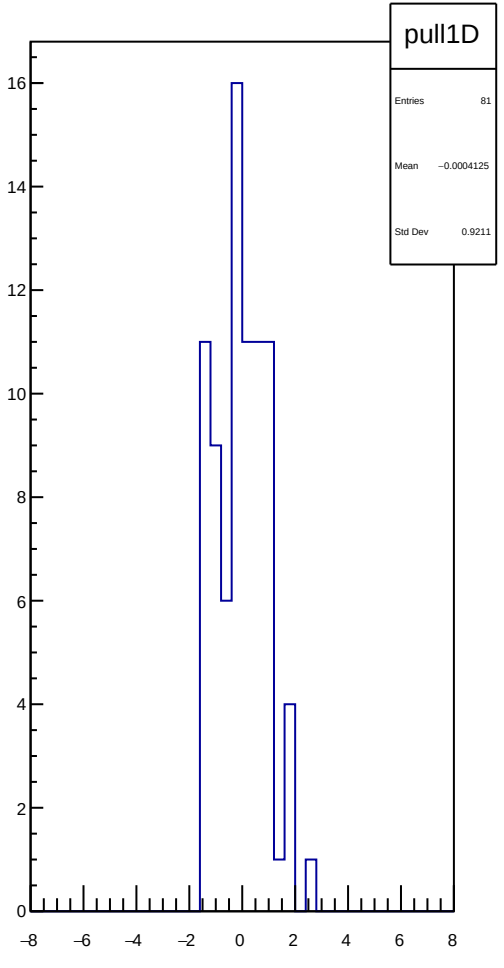

asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 1.64e+04 / 80
p0 1443 ± 1.161
1700
1600
1500
1400
1300
1200

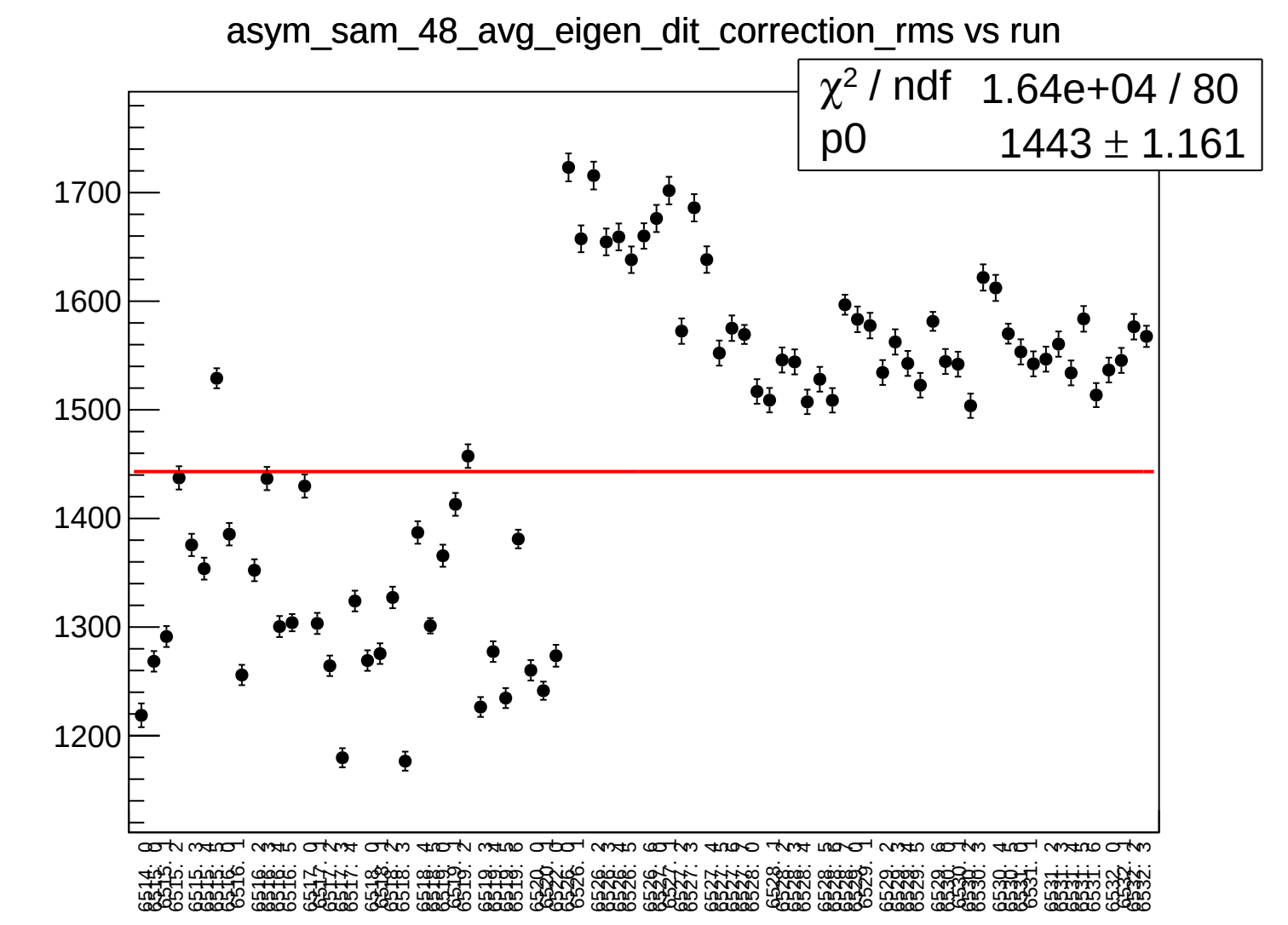

eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 102.4 / 80
p0 223 ± 234
15000
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −2370
Std Dev 0
3
2
1
0
−1
−2

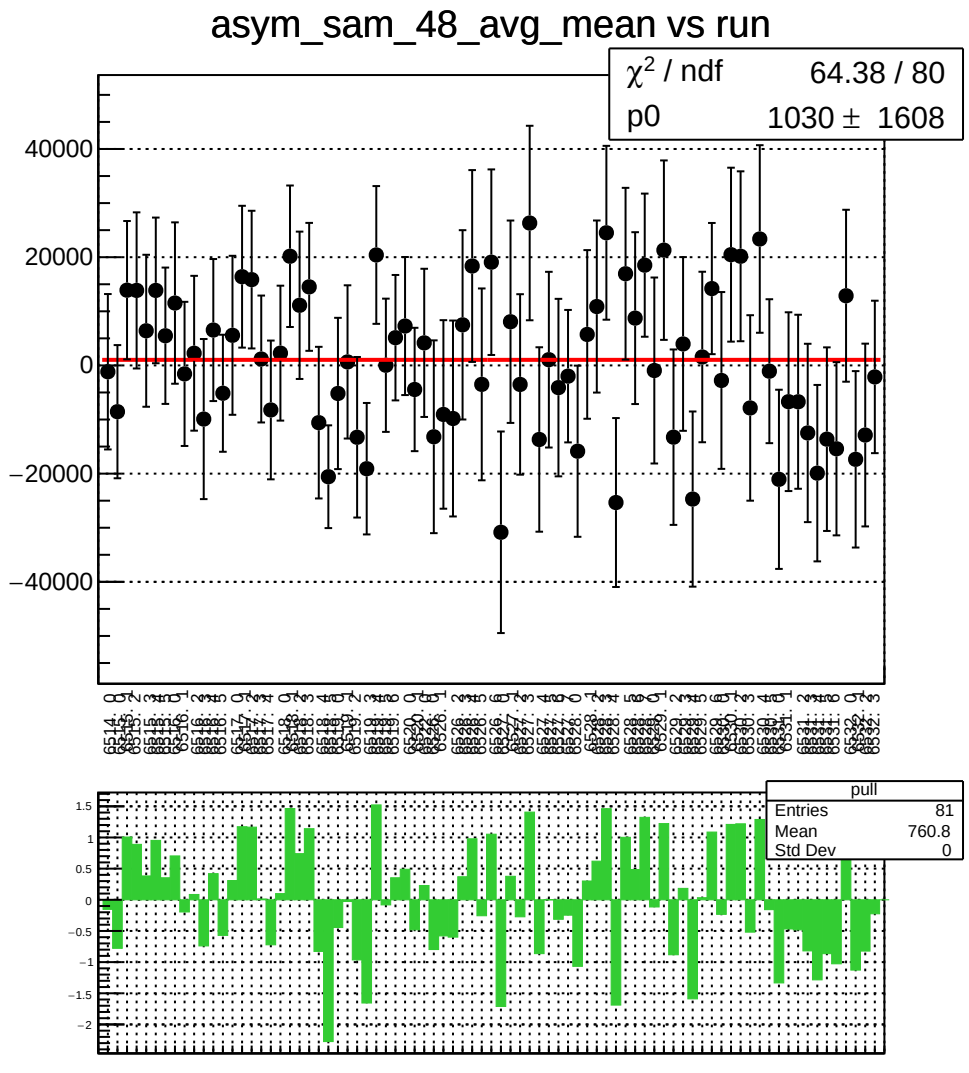

pull1D
Entries 81
Mean 0.002693
Std Dev 1.125
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

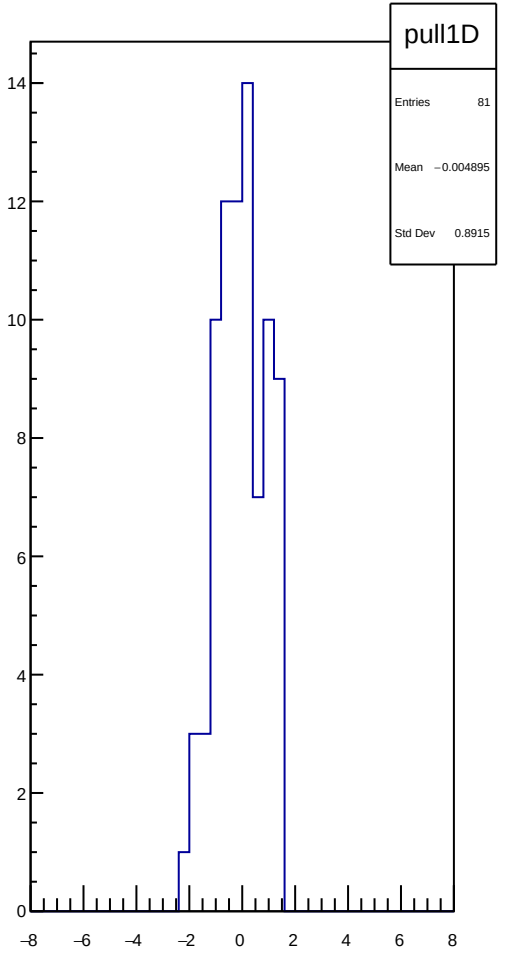

eigen_dit_asym_sam_48_avg_rms vs run
χ² / ndf 5.31e+04 / 80
p0 203.2 ± 0.1655
350
300
250
200
150

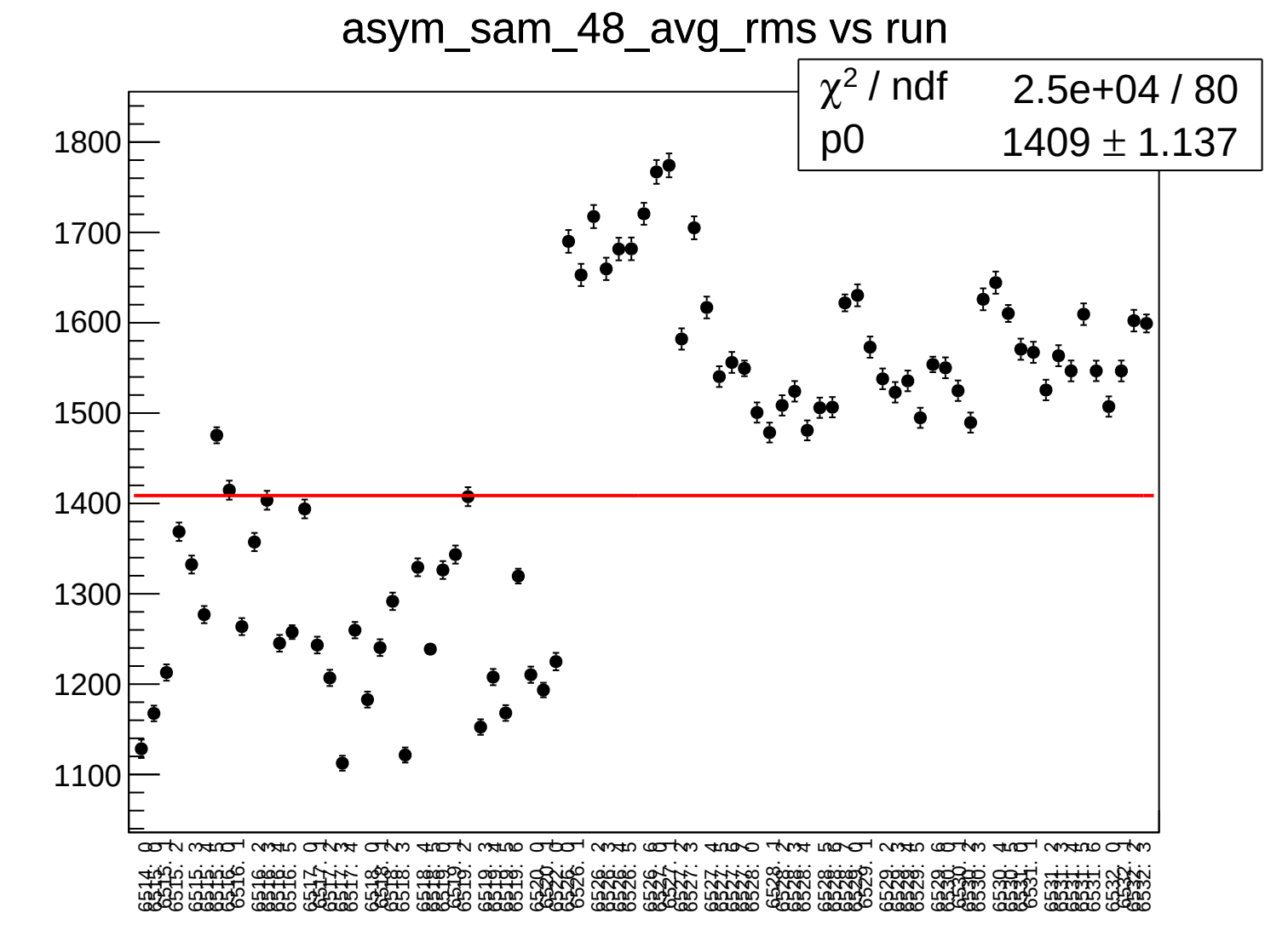

asym_sam_48_avg_eigen_dit_correction_mean vs run
χ² / ndf 68.73 / 80
p0 −588.3 ± 1642
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −5635
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

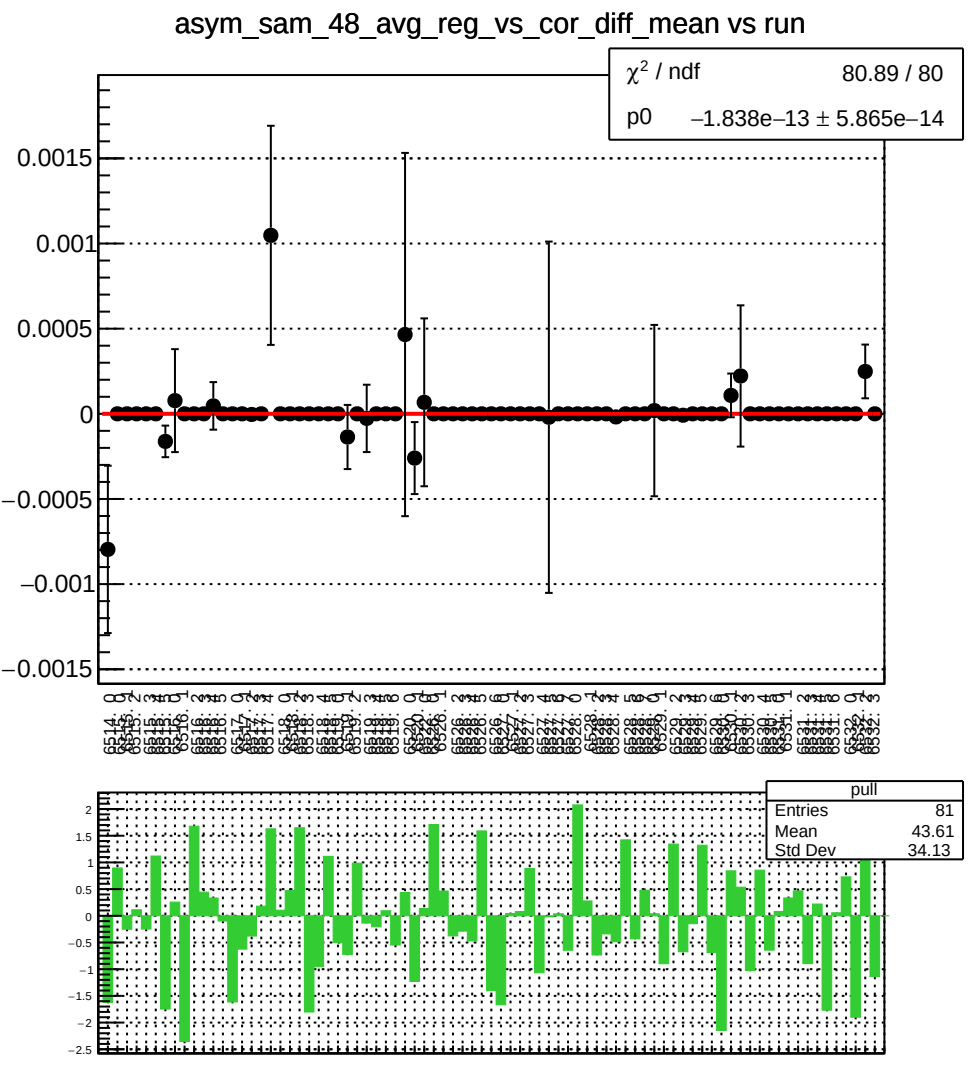

pull1D
Entries 81
Mean −0.0004125
Std Dev 0.9211
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

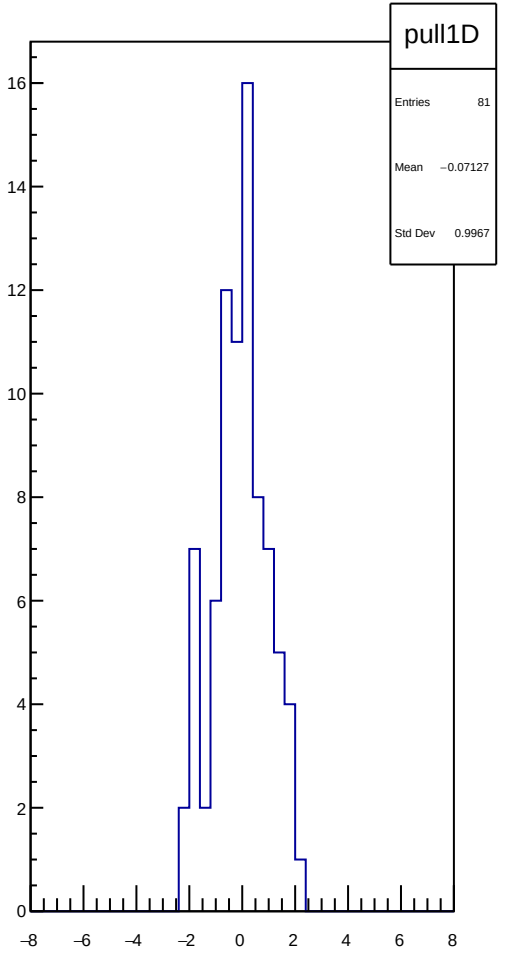

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.64e+04 / 80
p0 1443 ± 1.161
1700
1600
1500
1400
1300
1200

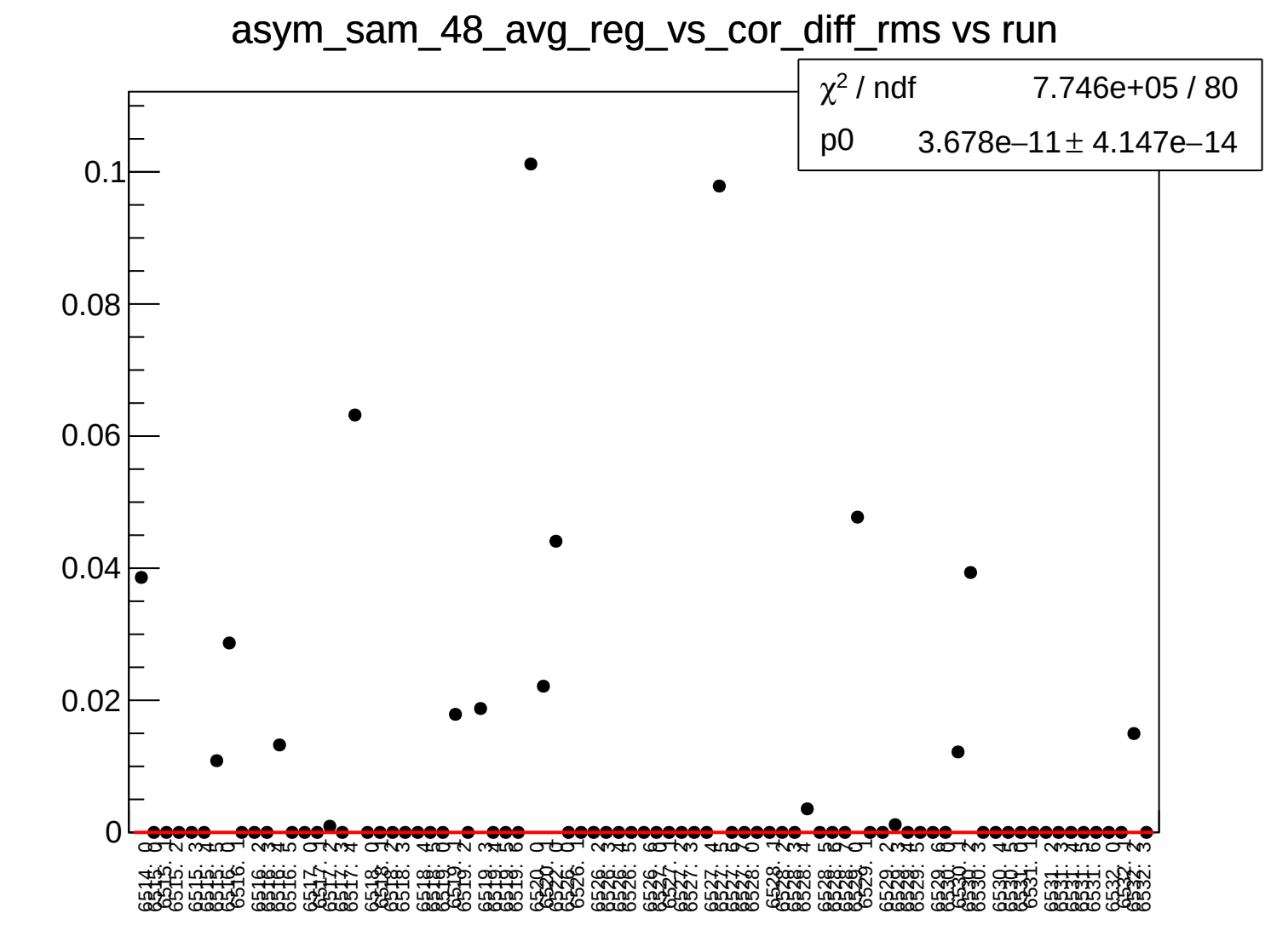

asym_sam_48_avg_mean vs run
χ² / ndf 64.38 / 80
p0 1030 ± 1608
40000
20000
0
−20000
−40000
pull
Entries 81
Mean 760.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

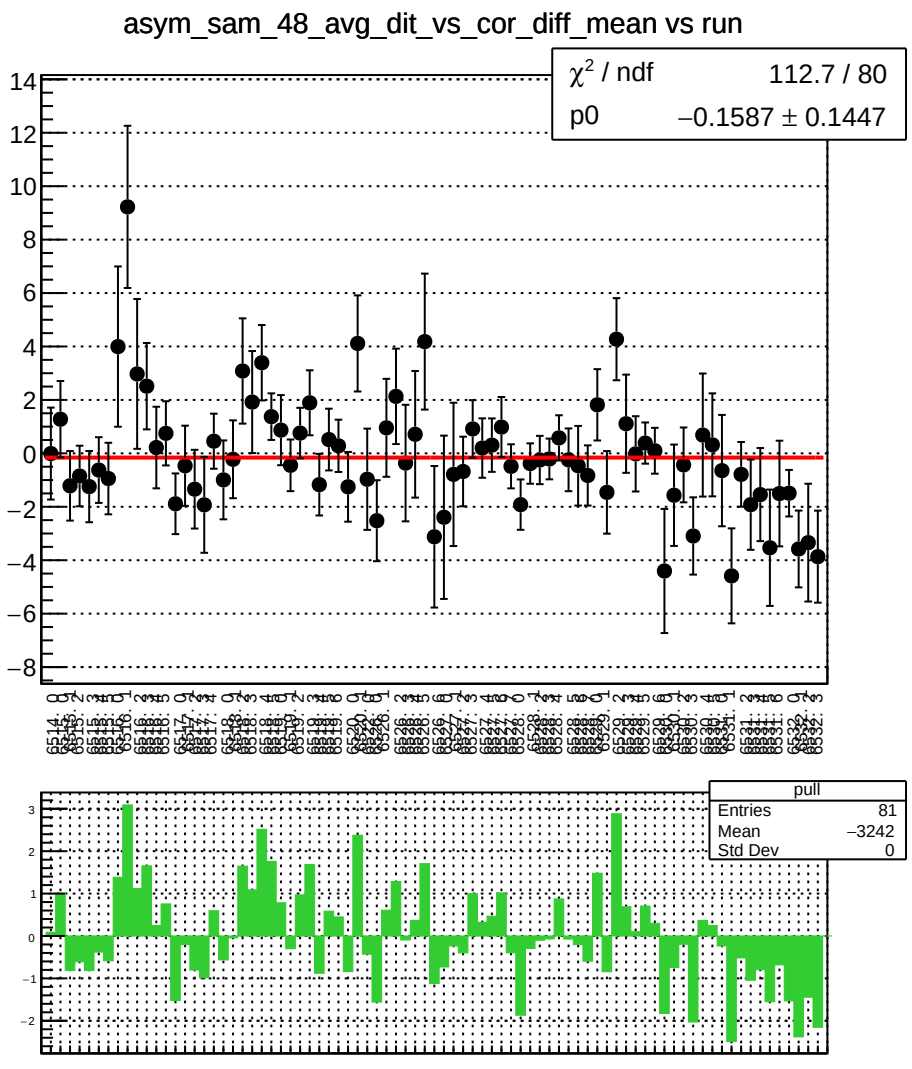

pull1D
Entries 81
Mean −0.004895
Std Dev 0.8915
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

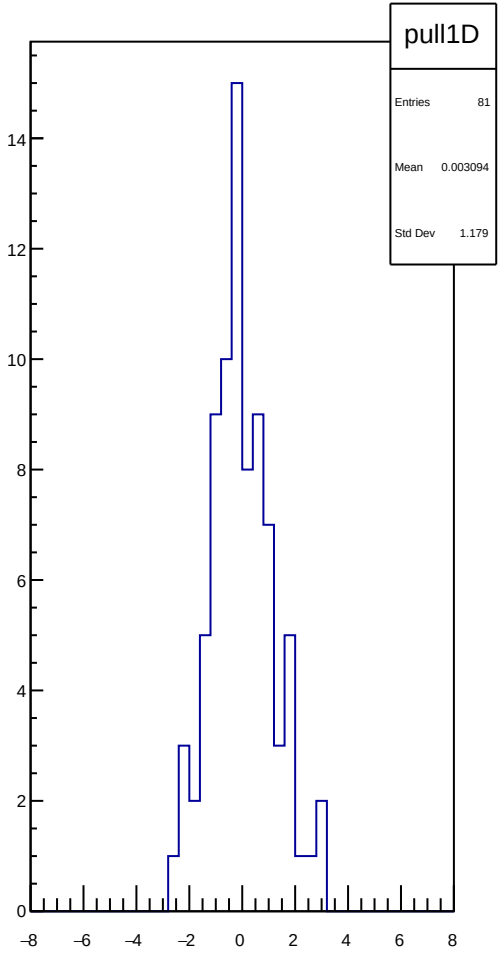

asym_sam_48_avg_rms vs run
χ² / ndf 2.5e+04 / 80
p0 1409 ± 1.137
1800
1700
1600
1500
1400
1300
1200
1100

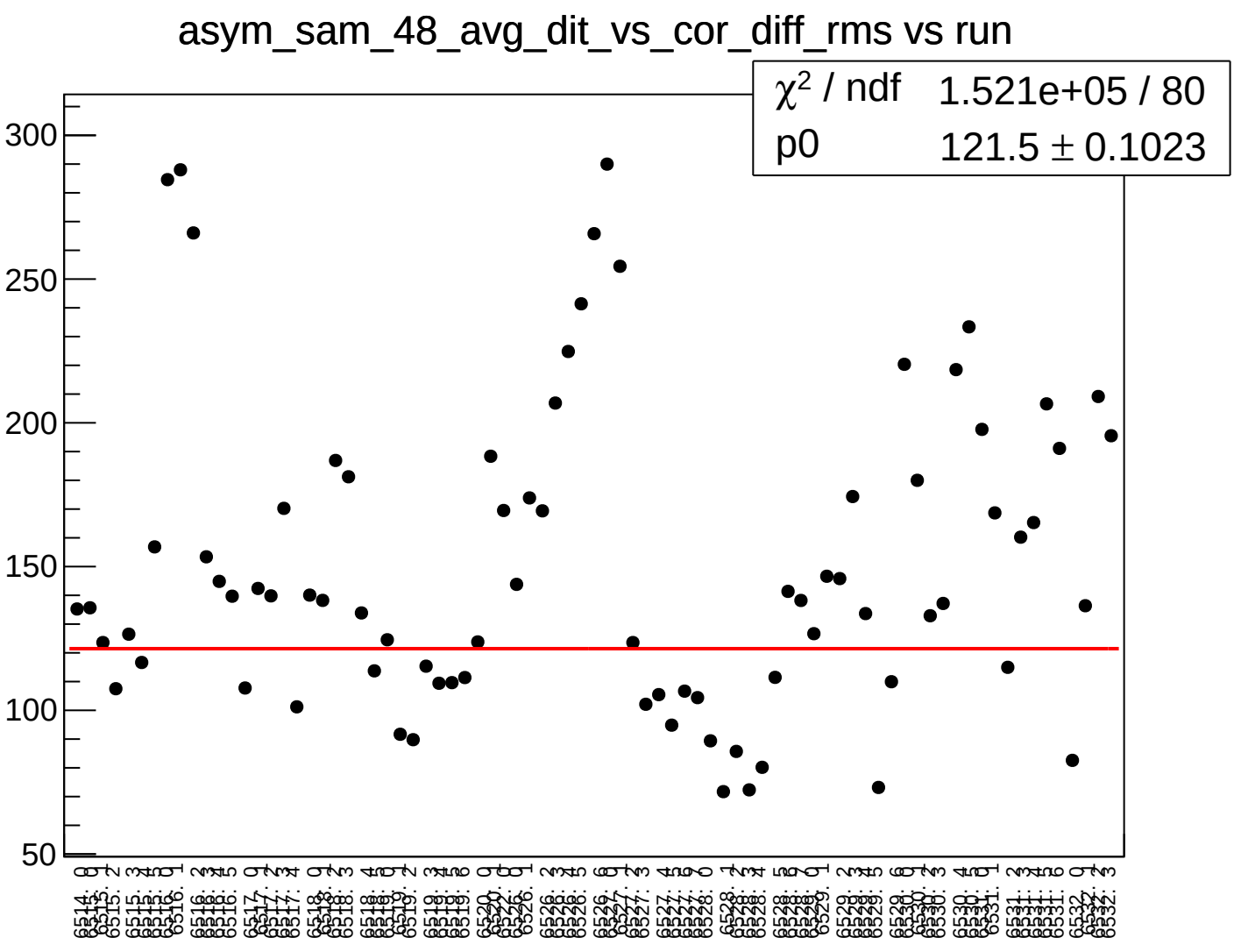

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 80.89 / 80
p0 −1.838e−13 ± 5.865e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 81
Mean 43.61
Std Dev 34.13
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

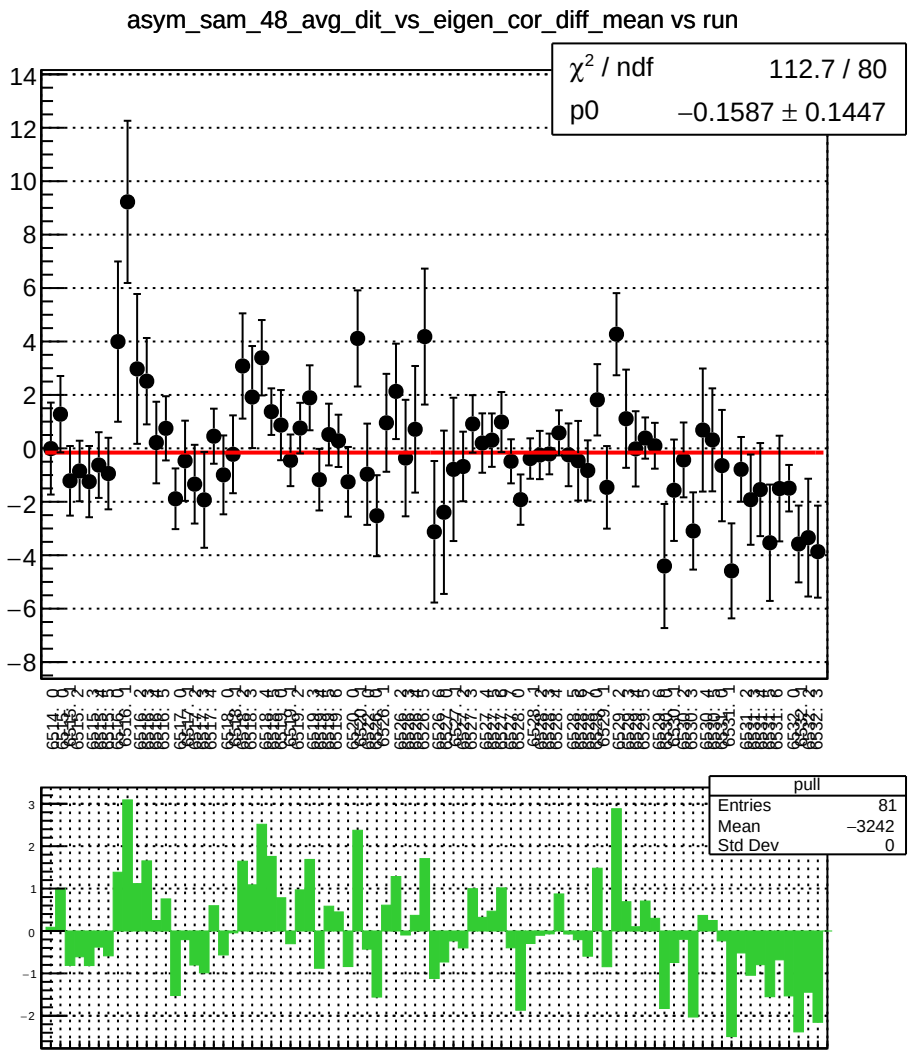

pull1D
Entries 81
Mean −0.07127
Std Dev 0.9967
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

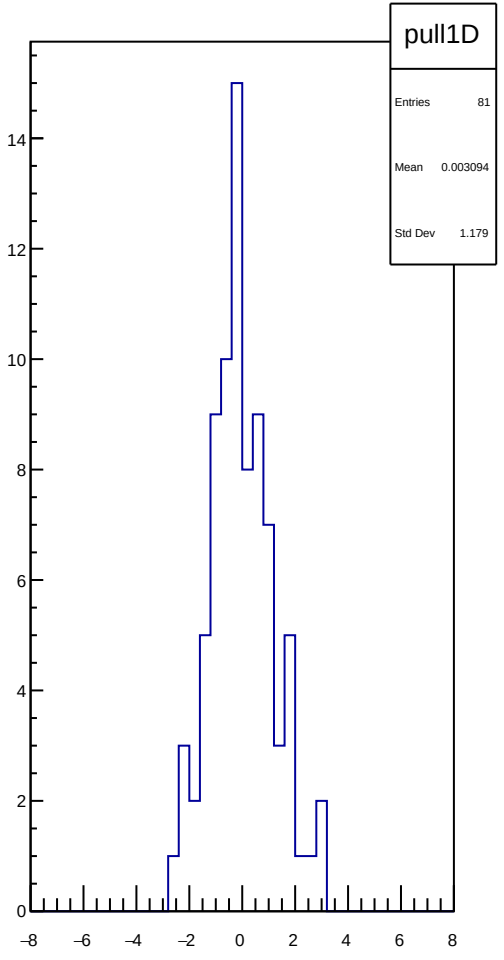

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 7.746e+05 / 80
p0 3.678e−11 ± 4.147e−14
0.1
0.08
0.06
0.04
0.02
0

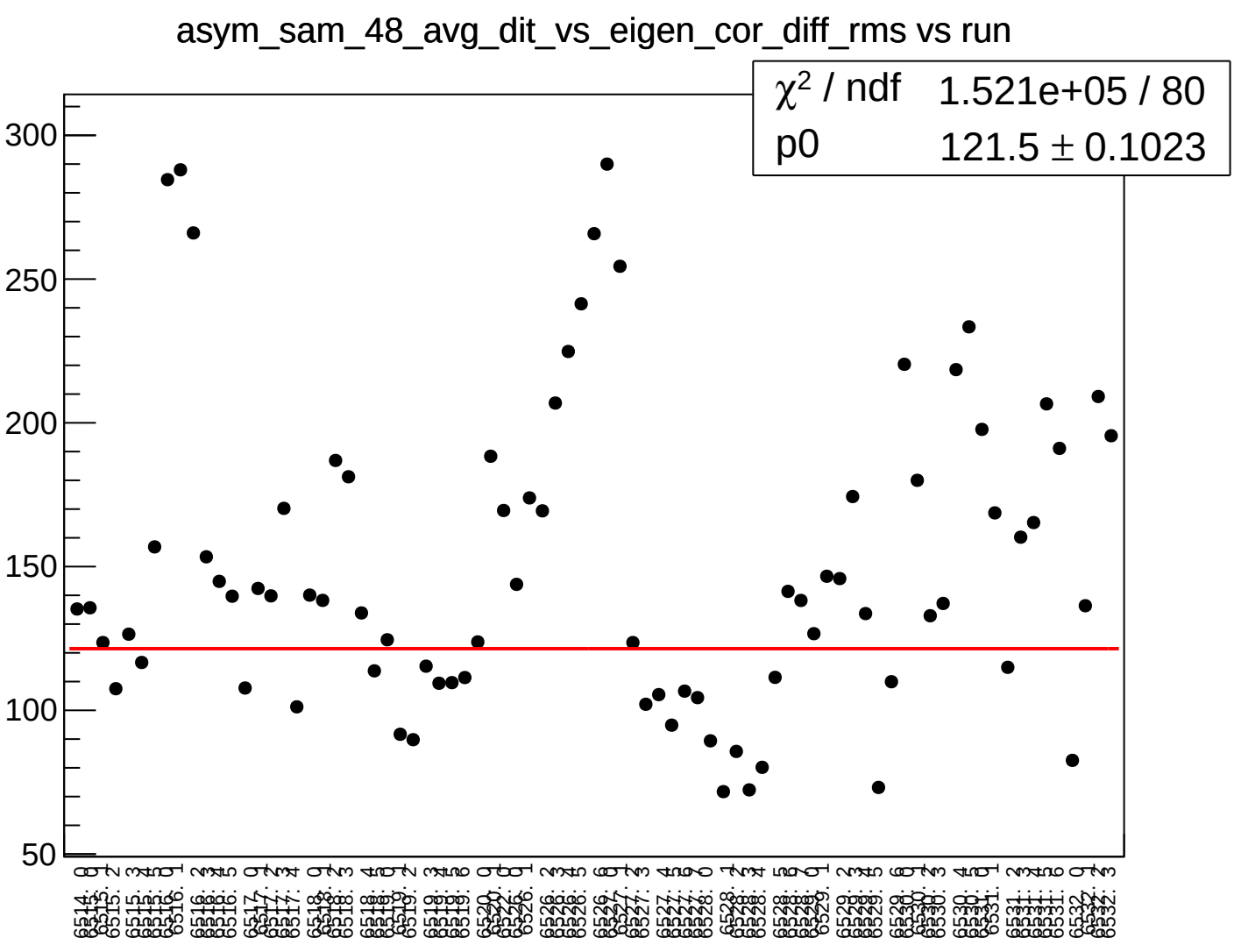

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 112.7 / 80
p0 −0.1587 ± 0.1447
pull
Entries 81
Mean −3242
Std Dev 0

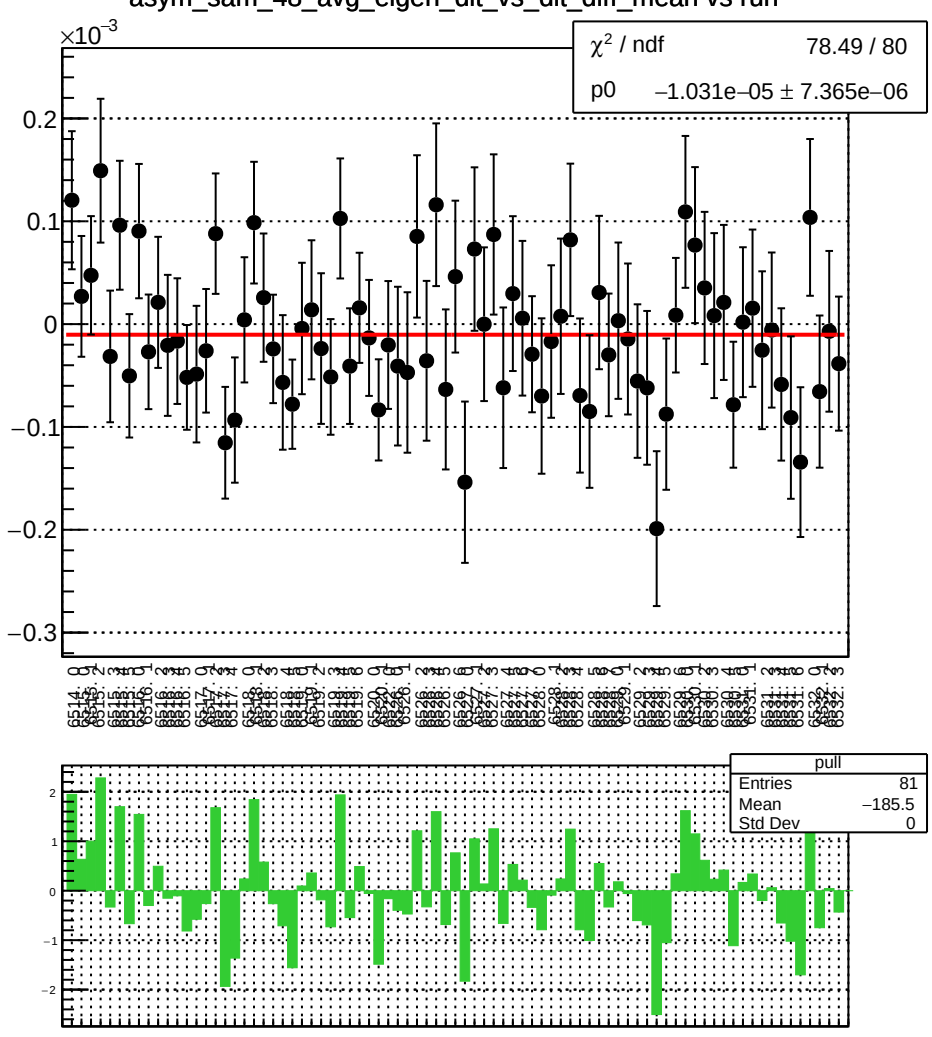

pull1D
Entries 81
Mean 0.003094
Std Dev 1.179

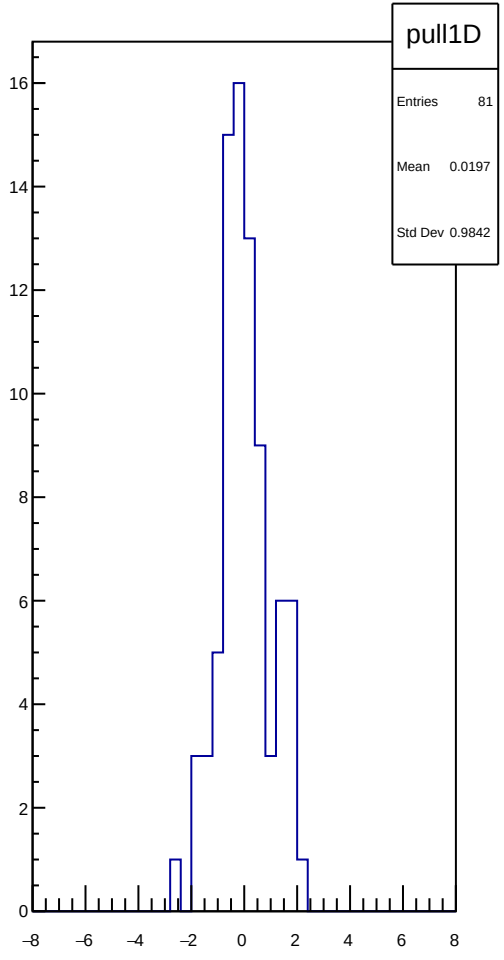

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.521e+05 / 80
p0 121.5 ± 0.1023
300
250
200
150
100
50

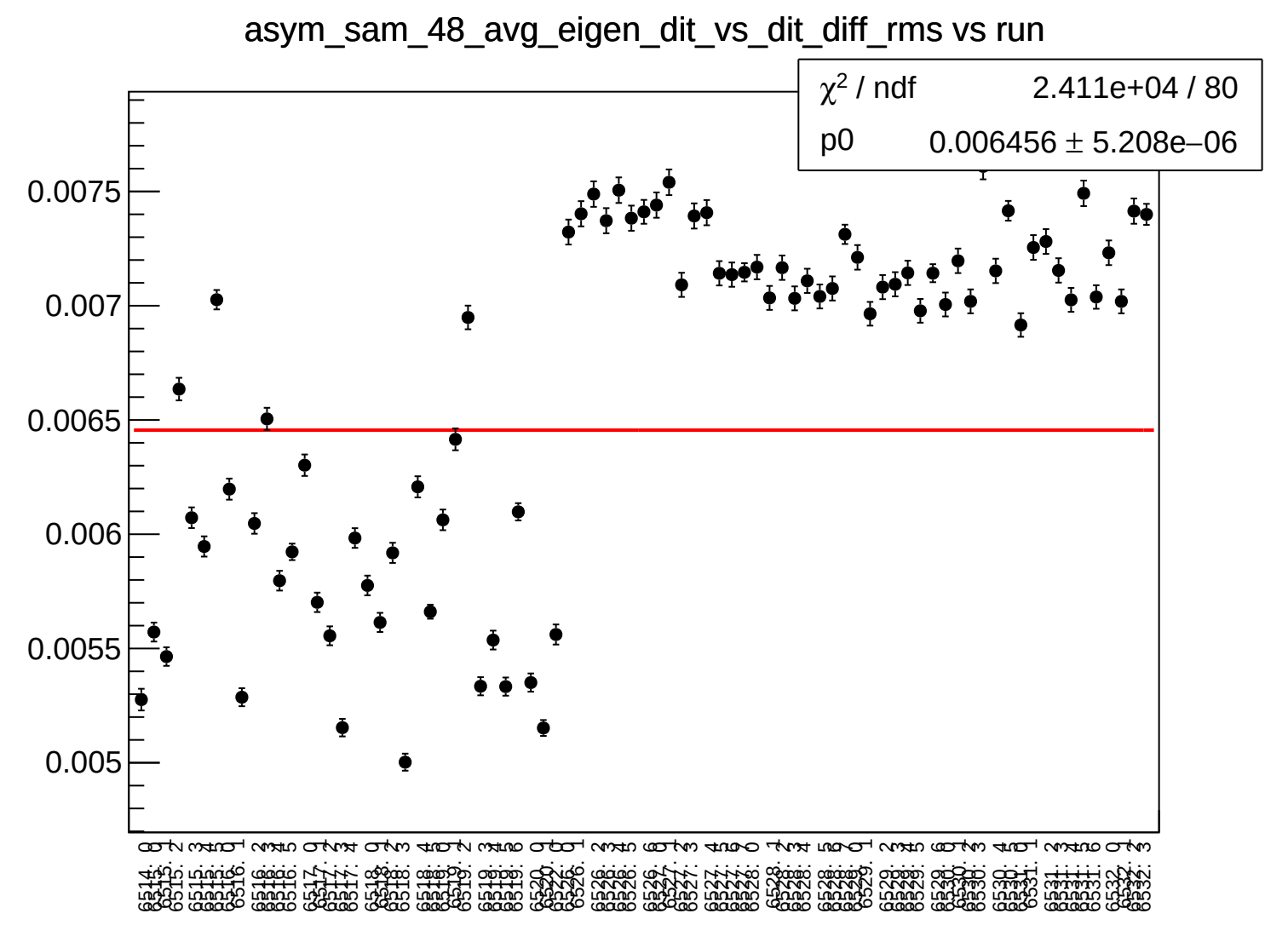

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.7 / 80
p0 −0.1587 ± 0.1447
pull
Entries 81
Mean −3242
Std Dev 0

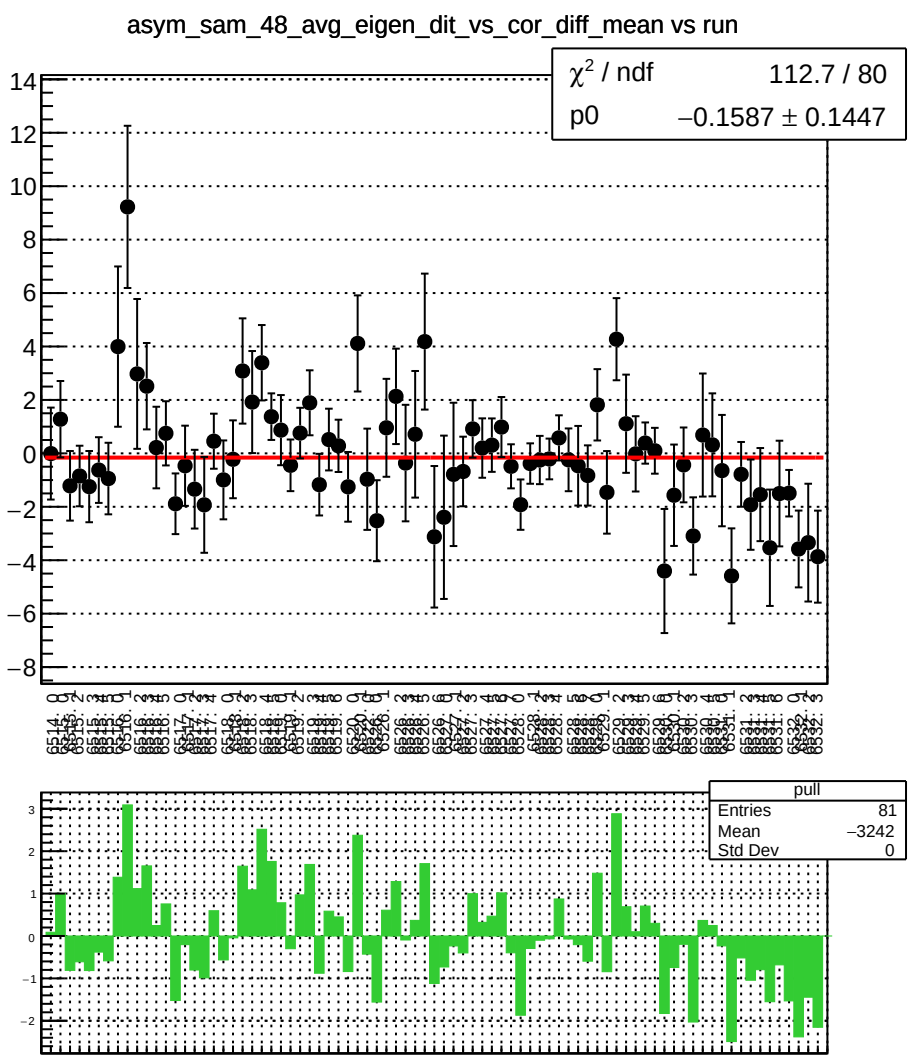

pull1D
Entries 81
Mean 0.003094
Std Dev 1.179

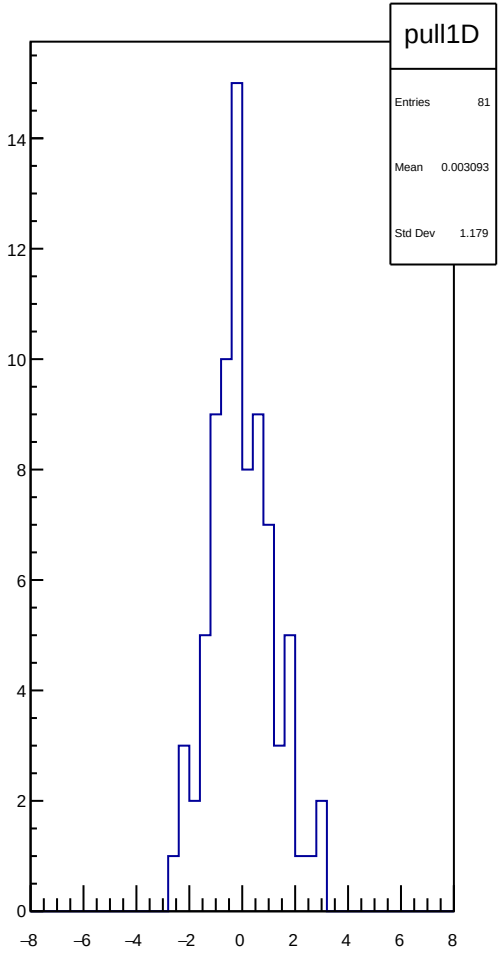

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.521e+05 / 80
p0 121.5 ± 0.1023
300
250
200
150
100
50

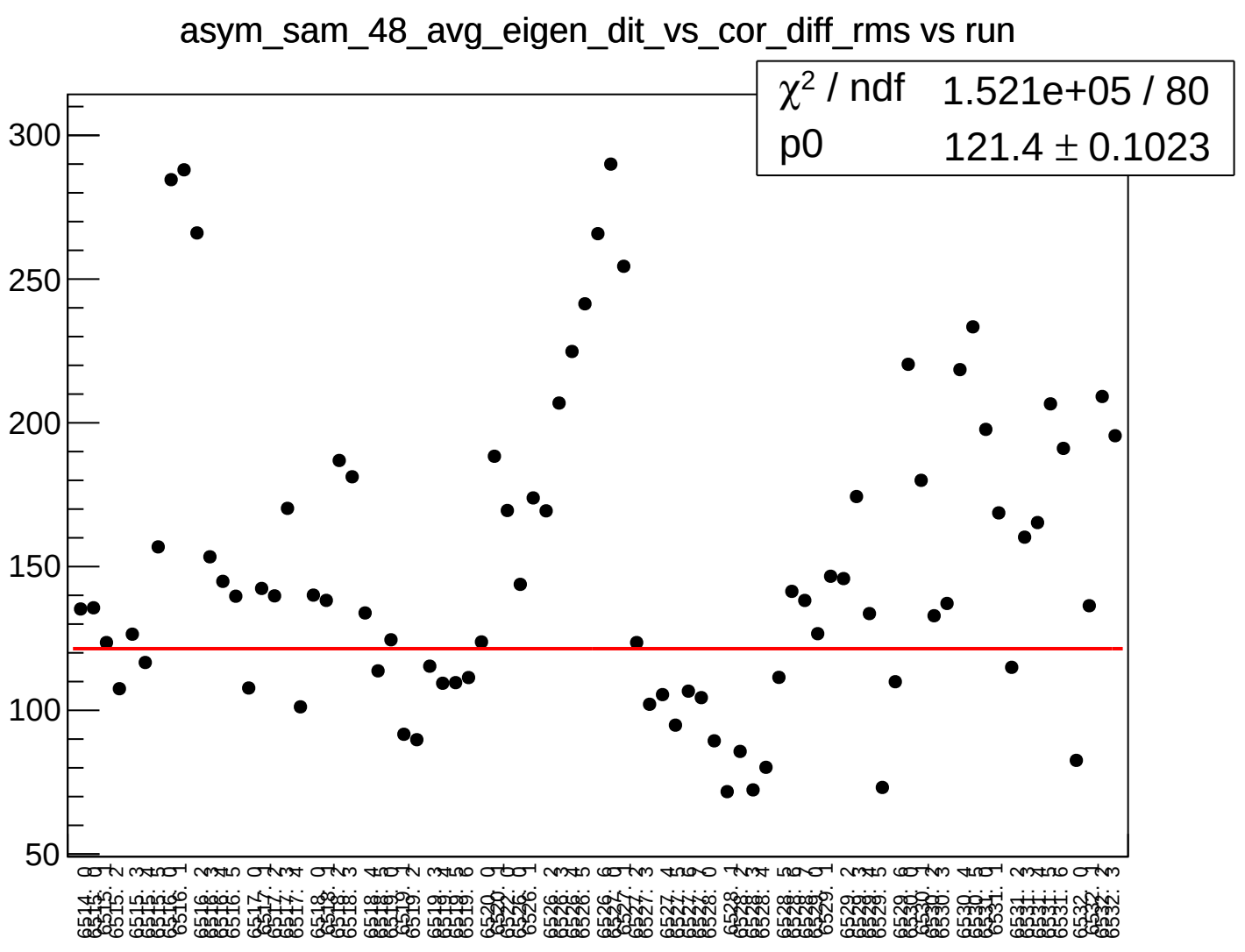

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 78.49 / 80
p0 −1.031e−05 ± 7.365e−06
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 81
Mean −185.5
Std Dev 0
2
1
0
−1
−2

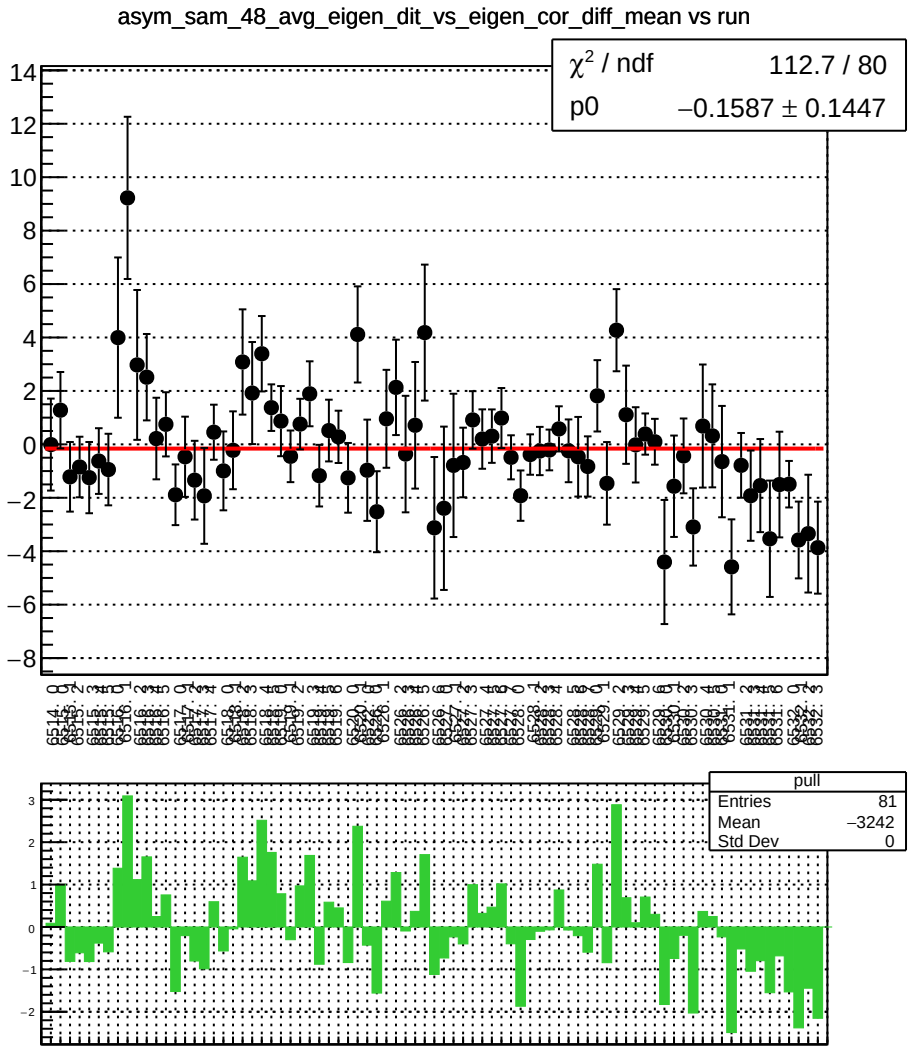

pull1D
Entries 81
Mean 0.0197
Std Dev 0.9842
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

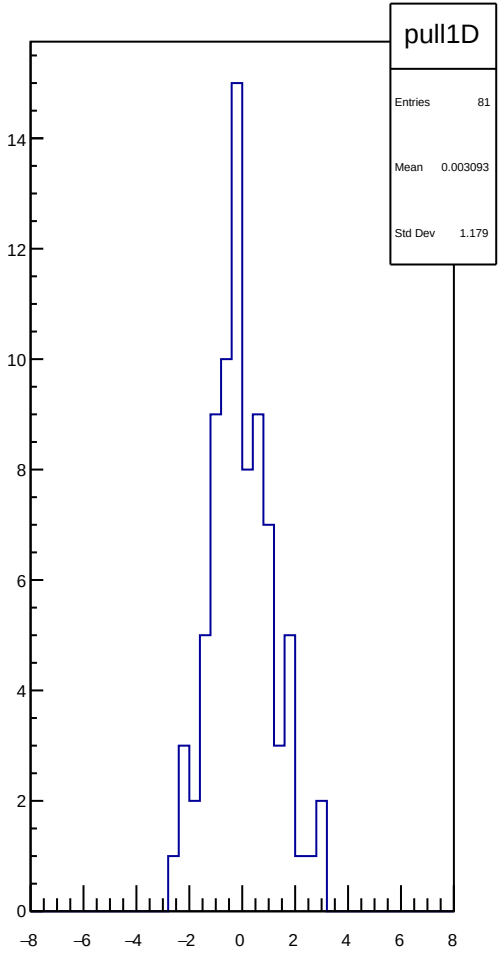

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.411e+04 / 80
p0 0.006456 ± 5.208e−06
0.0075
0.007
0.0065
0.006
0.0055
0.005

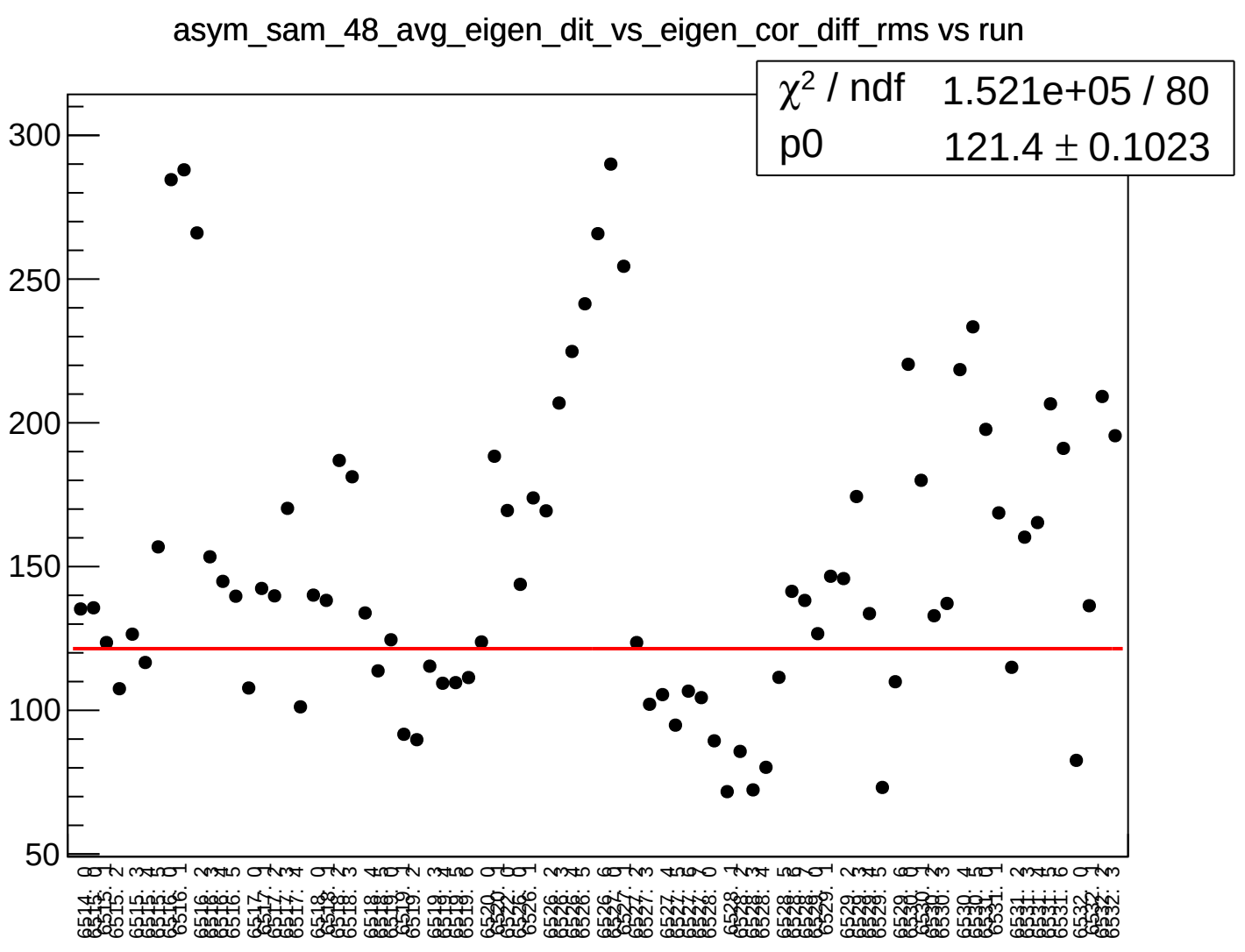

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 112.7 / 80
p0 −0.1587 ± 0.1447
pull
Entries 81
Mean −3242
Std Dev 0

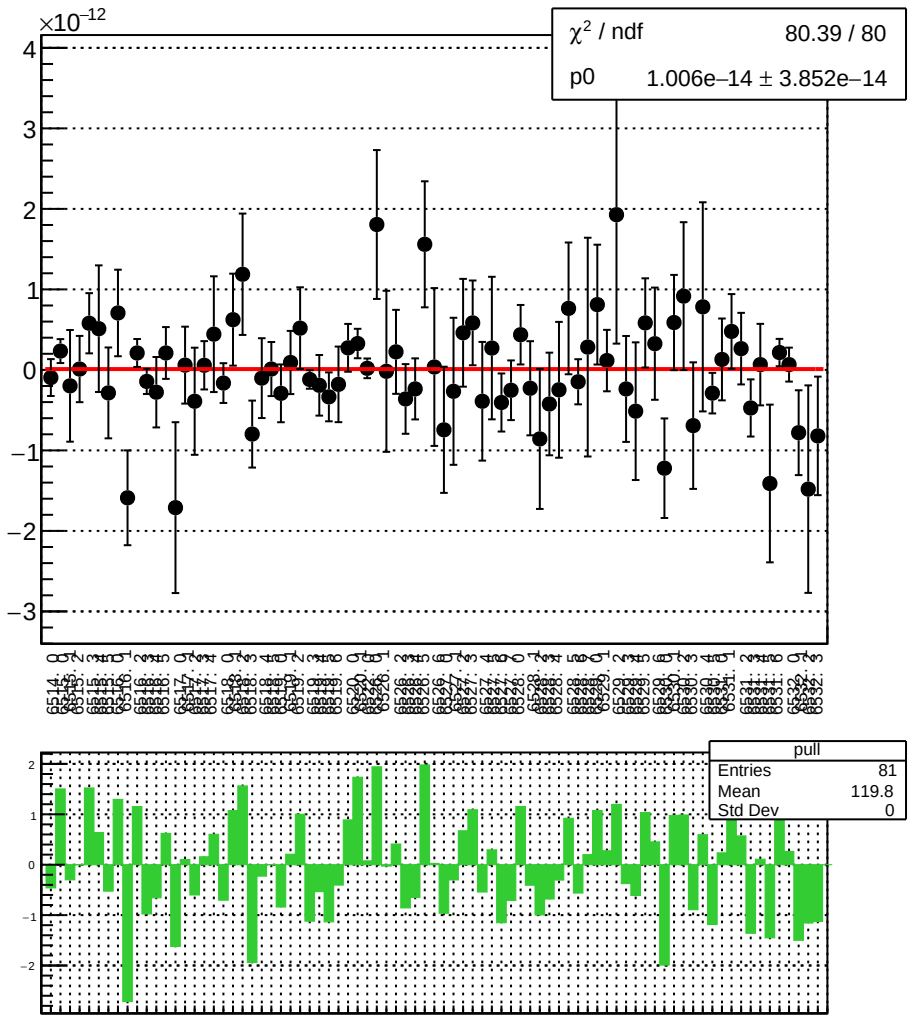

pull1D
Entries 81
Mean 0.003093
Std Dev 1.179

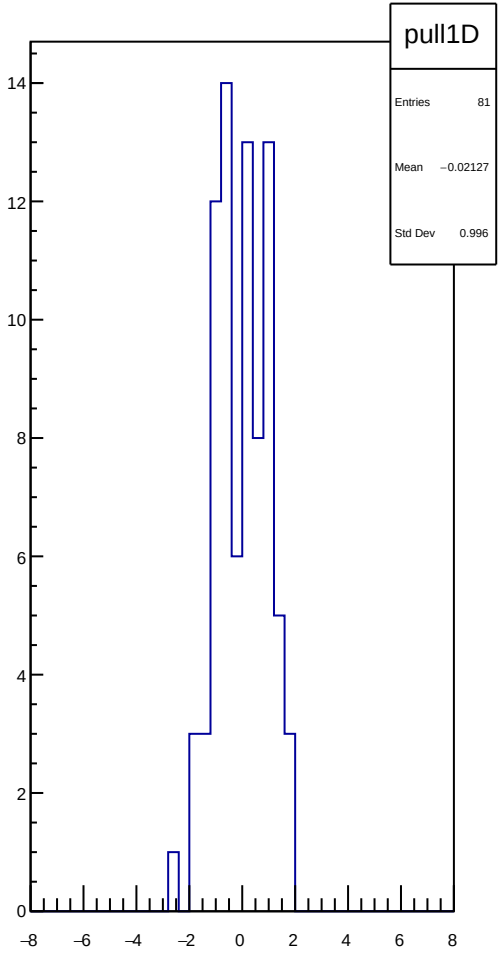

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.521e+05 / 80
p0 121.4 ± 0.1023
300
250
200
150
100
50

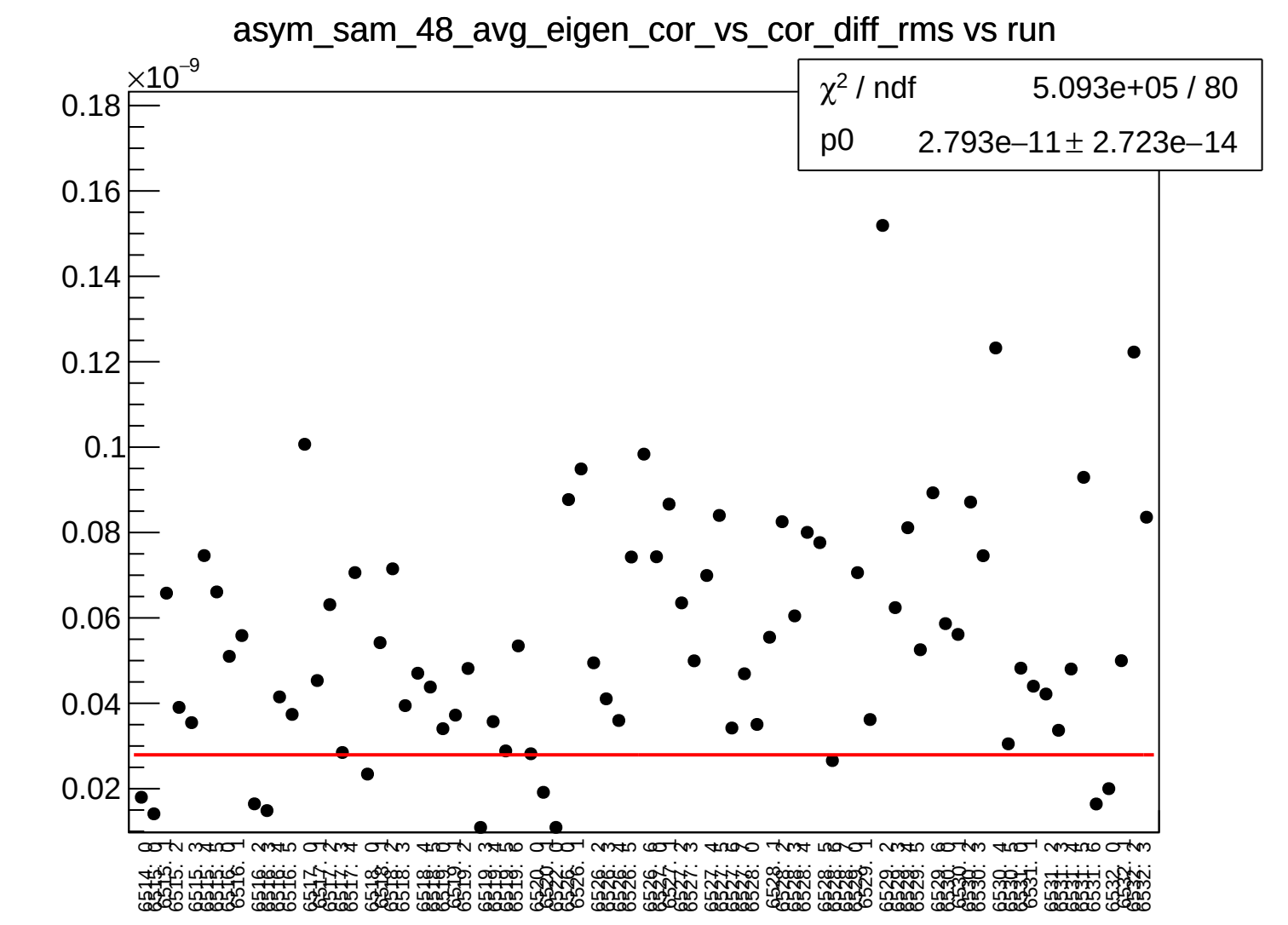

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.7 / 80
p0 −0.1587 ± 0.1447
pull
Entries 81
Mean −3242
Std Dev 0

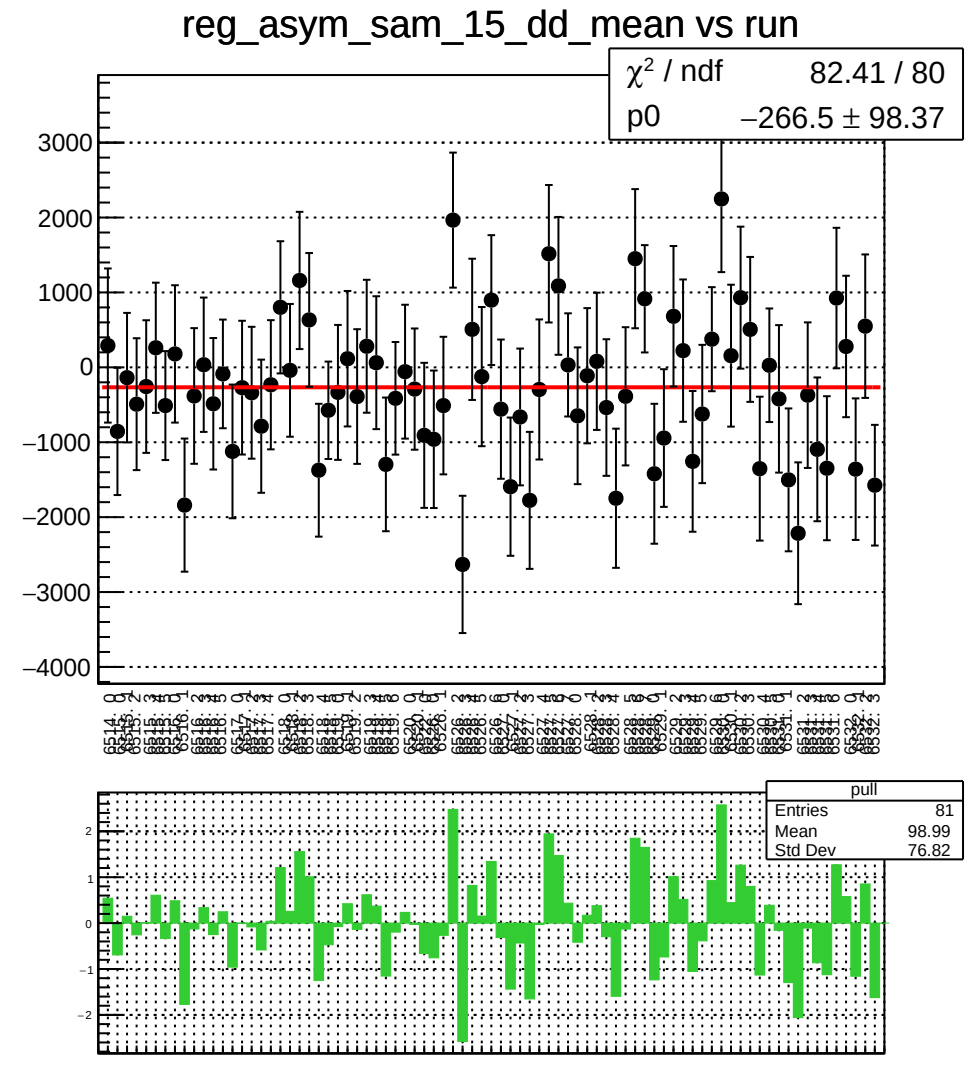

pull1D
Entries 81
Mean 0.003093
Std Dev 1.179

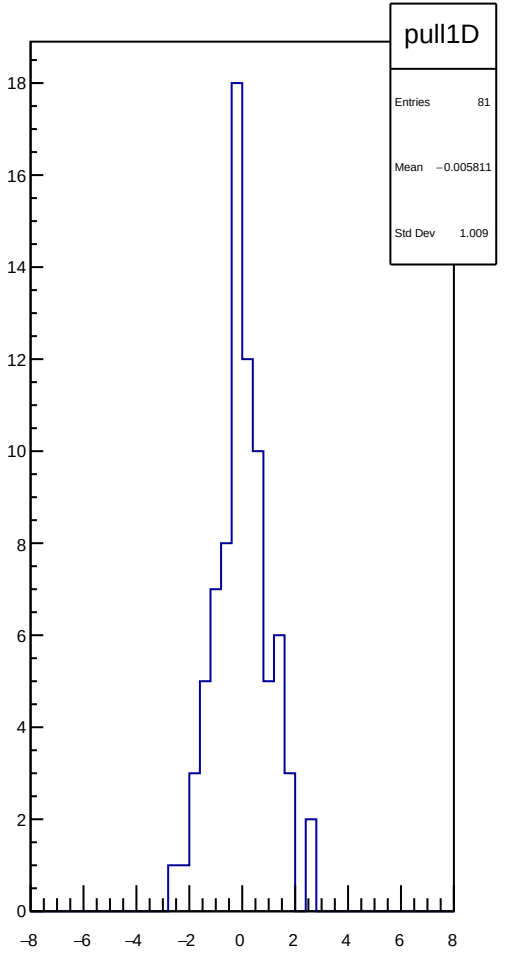

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.521e+05 / 80
p0 121.4 ± 0.1023
300
250
200
150
100
50

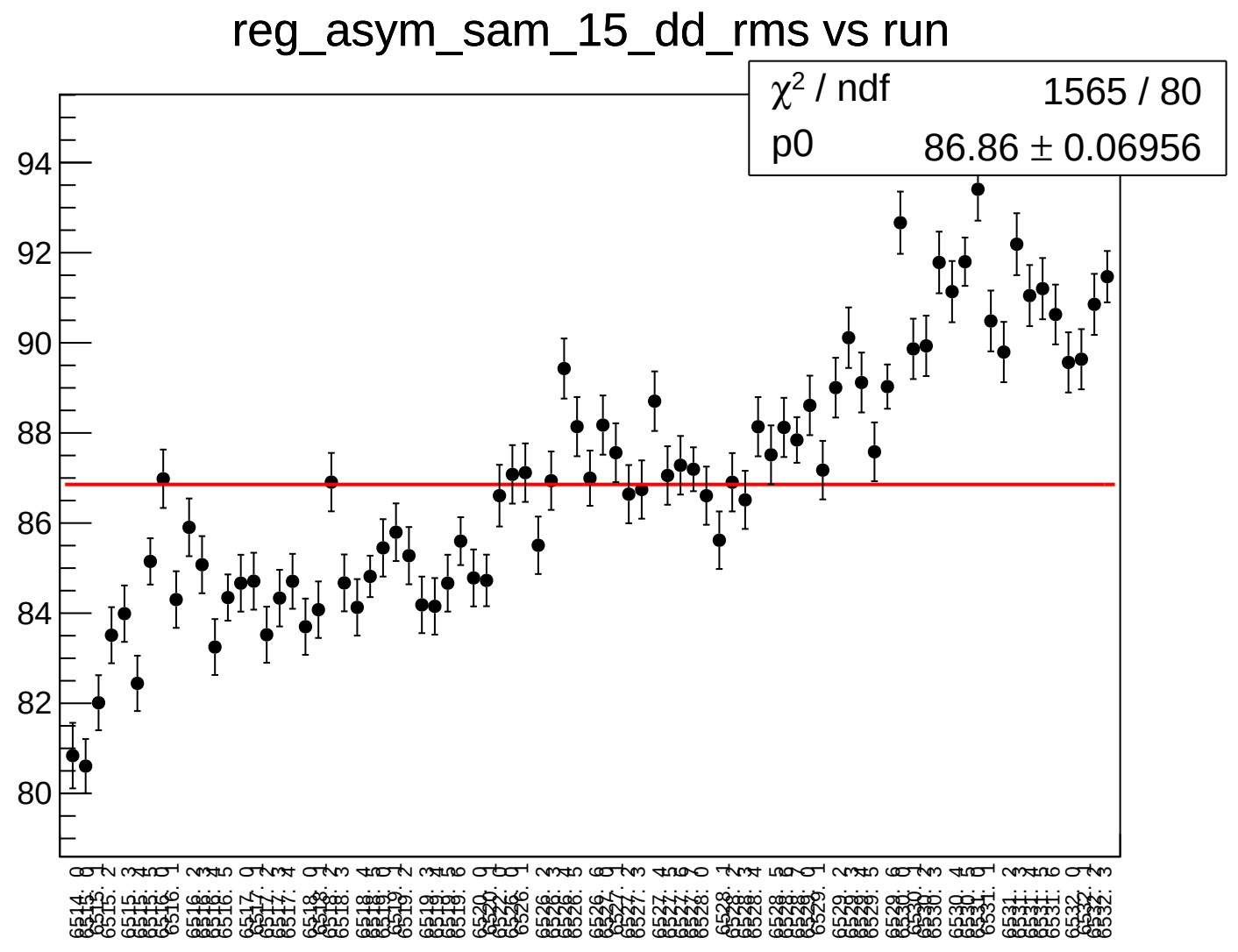

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.39 / 80
p0 1.006e−14 ± 3.852e−14
pull
Entries 81
Mean 119.8
Std Dev 0

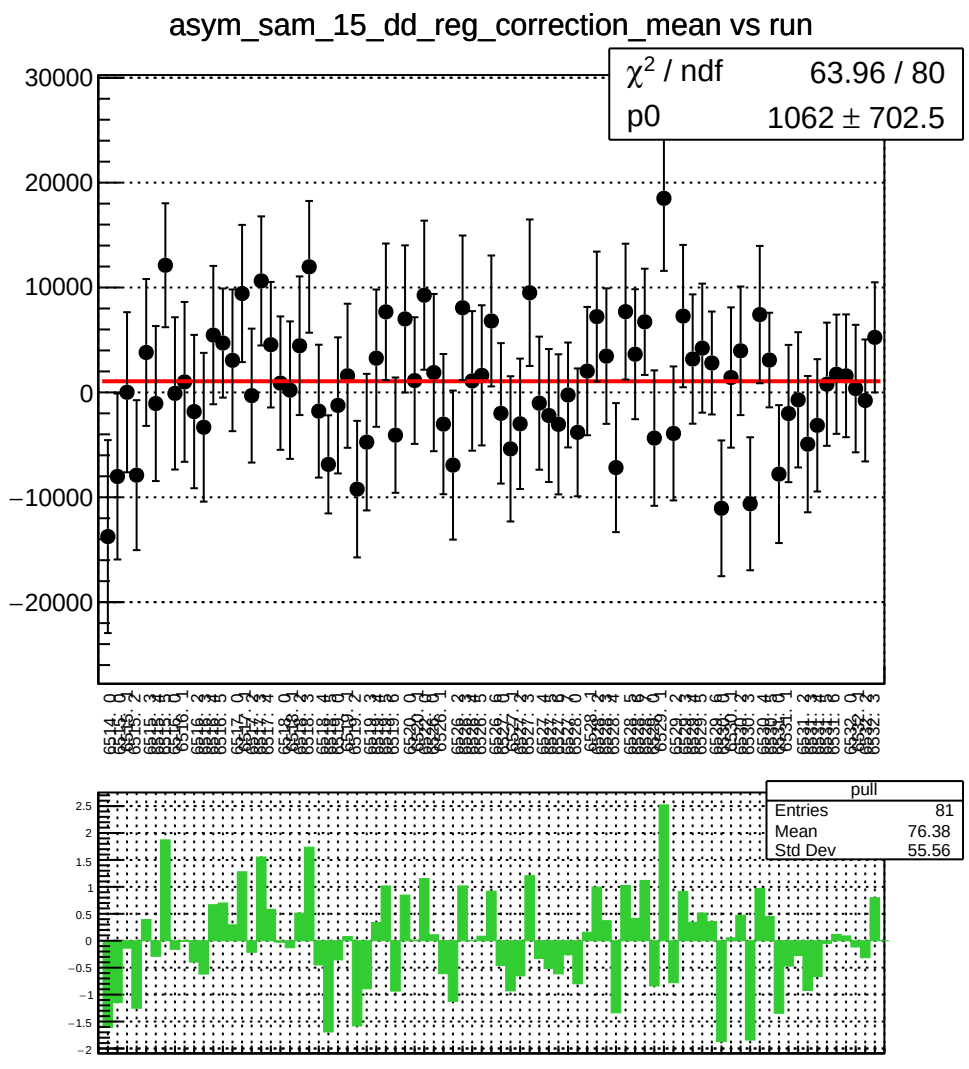

pull1D
Entries 81
Mean −0.02127
Std Dev 0.996

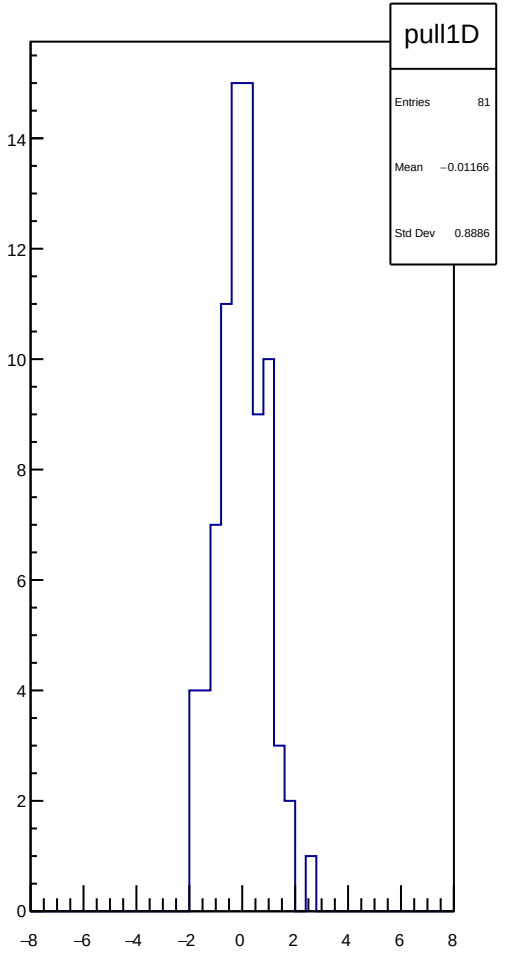

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.093e+05 / 80
p0 2.793e−11 ± 2.723e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

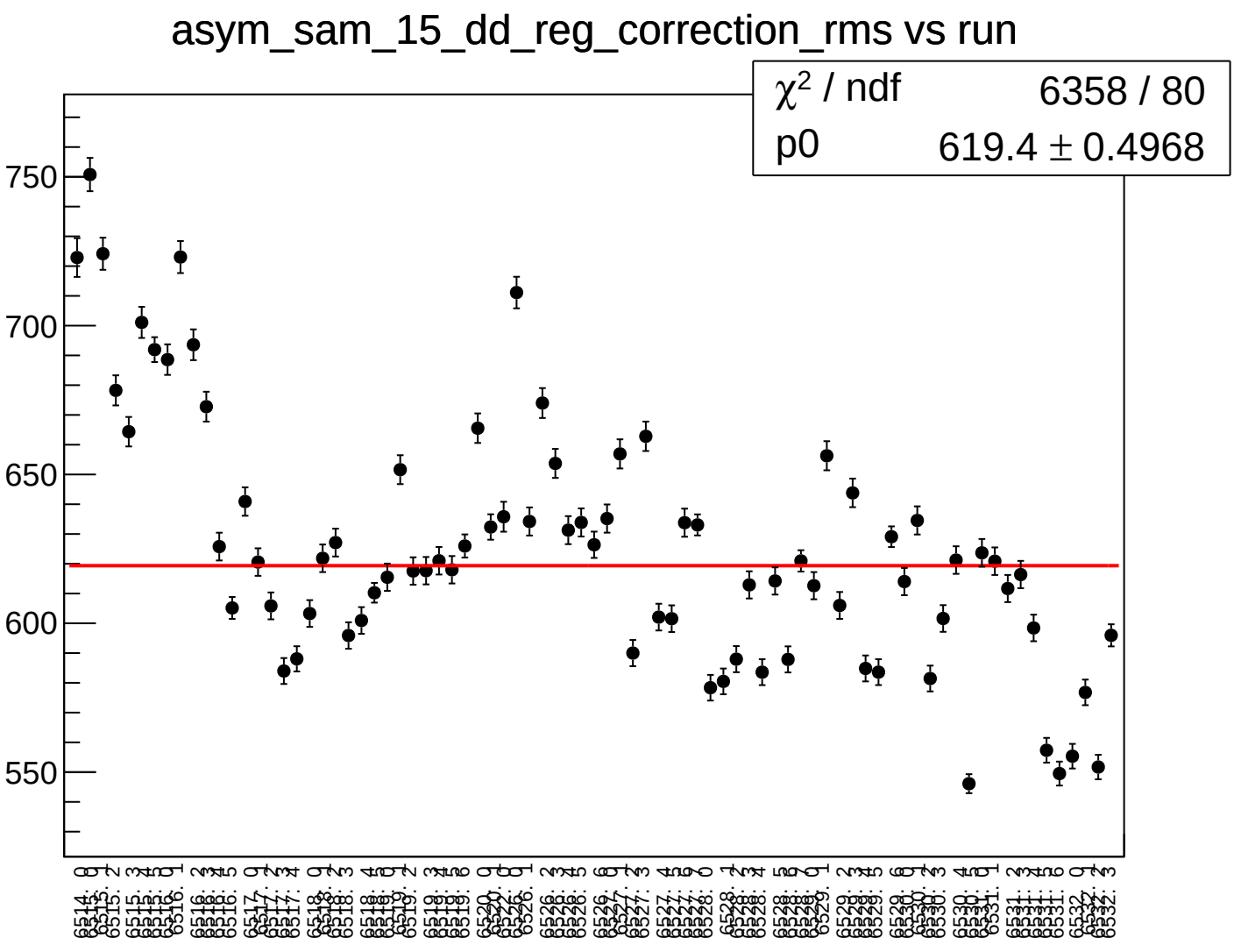

reg_asym_sam_15_dd_mean vs run
χ² / ndf 82.41 / 80
p0 −266.5 ± 98.37
pull
Entries 81
Mean 98.99
Std Dev 76.82

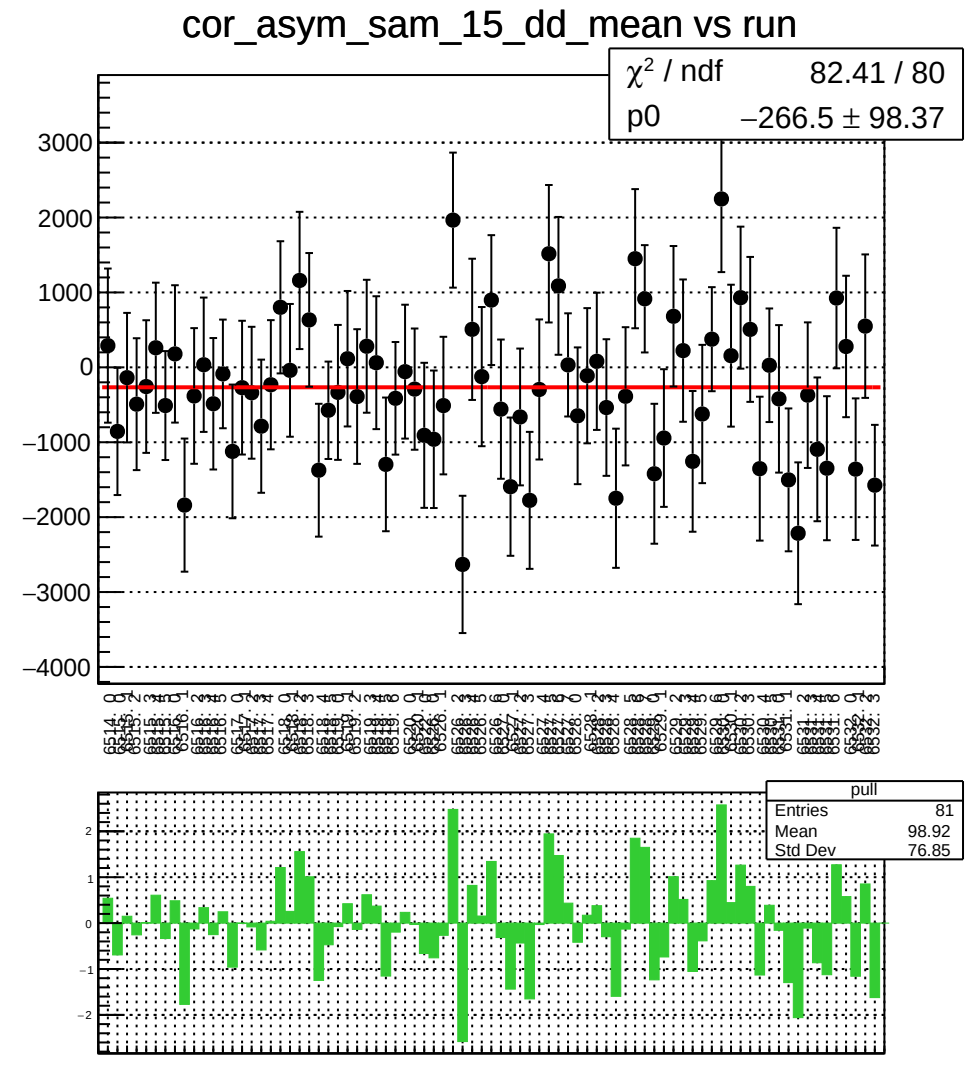

pull1D
Entries 81
Mean −0.005811
Std Dev 1.009

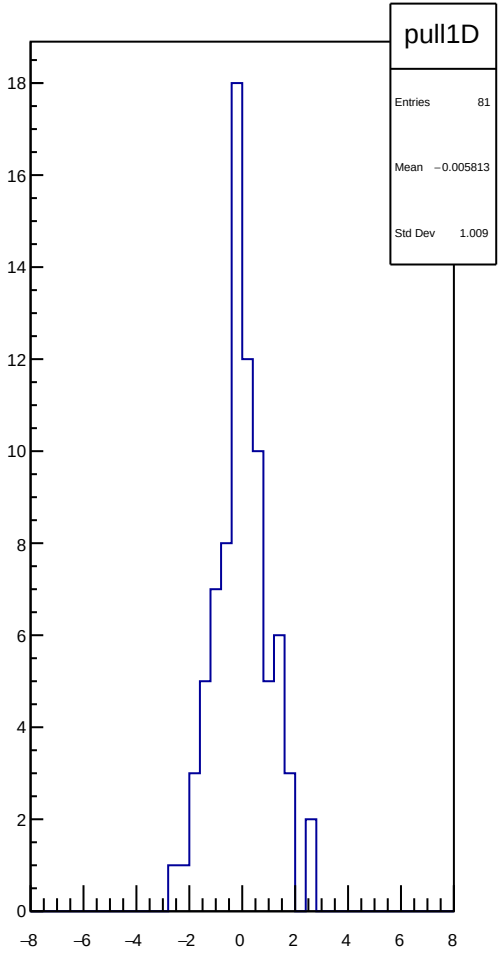

reg_asym_sam_15_dd_rms vs run
χ² / ndf 1565 / 80
p0 86.86 ± 0.06956
94
92
90
88
86
84
82
80

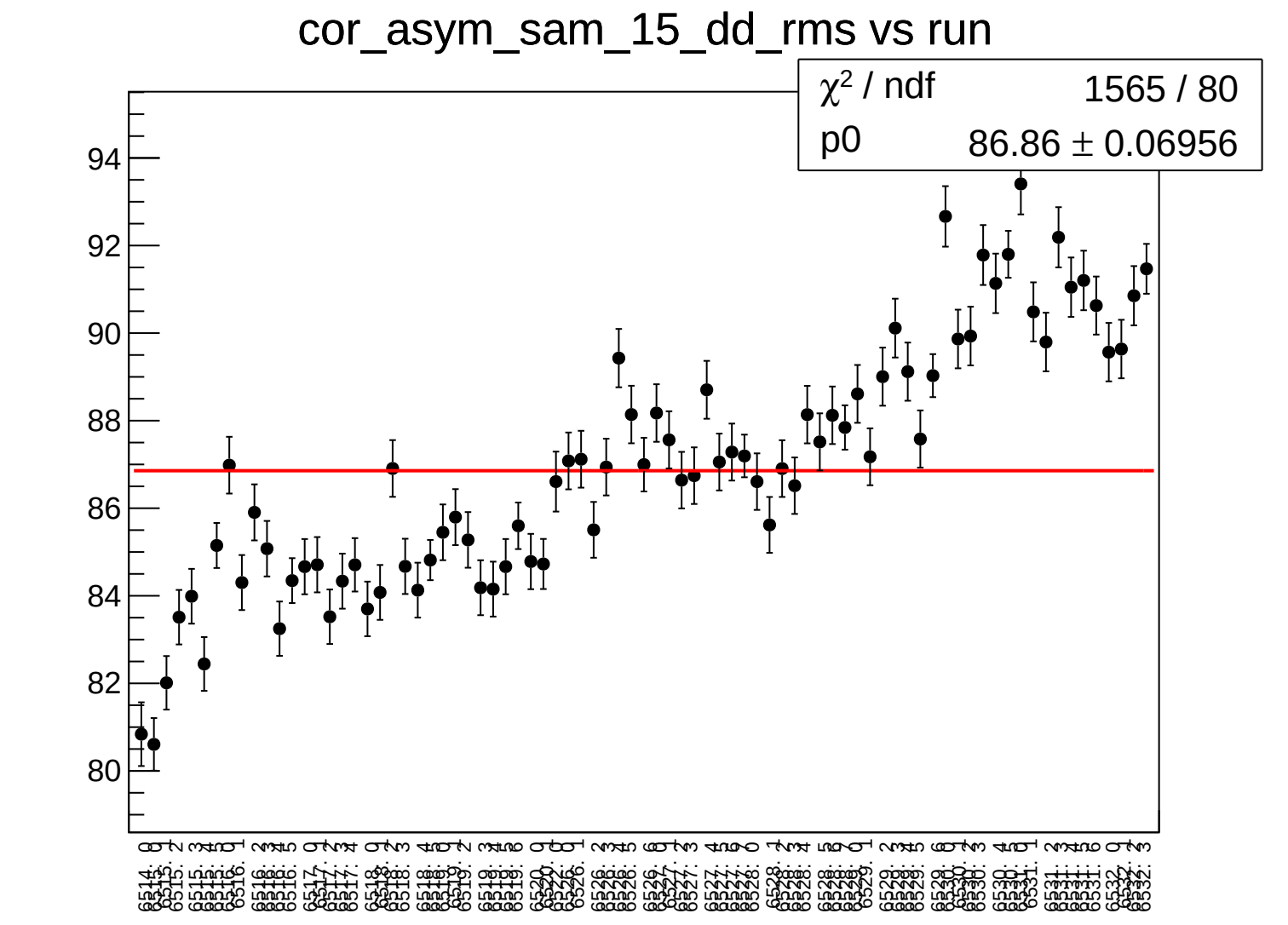

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 63.96 / 80
p0 1062 ± 702.5
pull
Entries 81
Mean 76.38
Std Dev 55.56

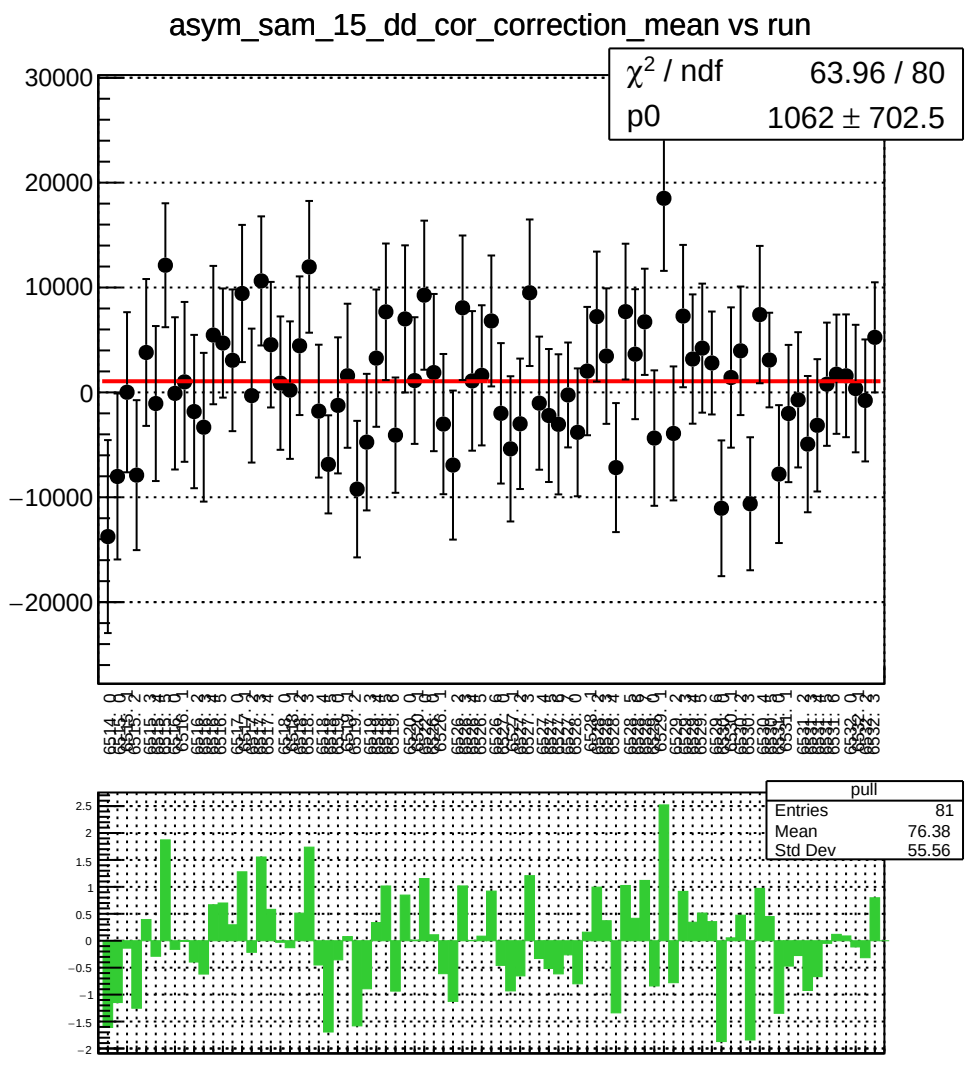

pull1D
Entries 81
Mean −0.01166
Std Dev 0.8886

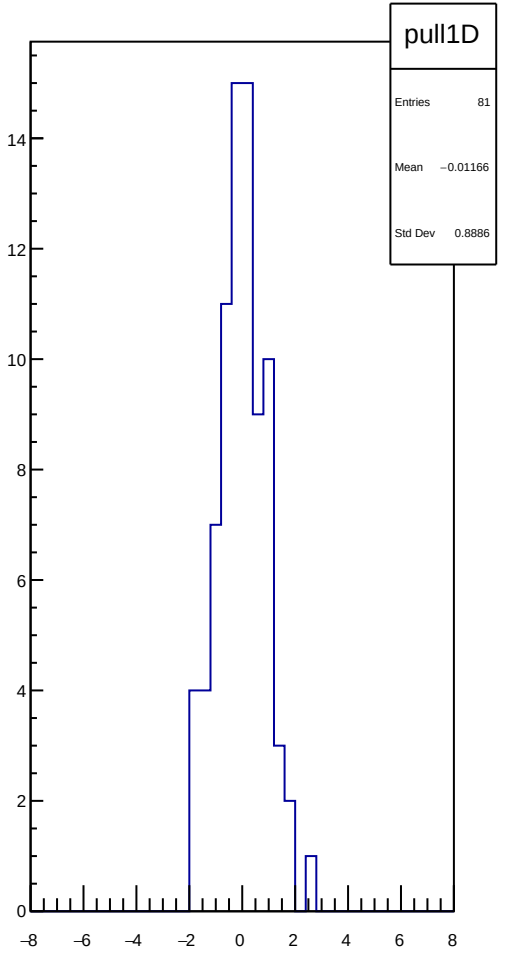

asym_sam_15_dd_reg_correction_rms vs run
χ² / ndf 6358 / 80
p0 619.4 ± 0.4968
750
700
650
600
550

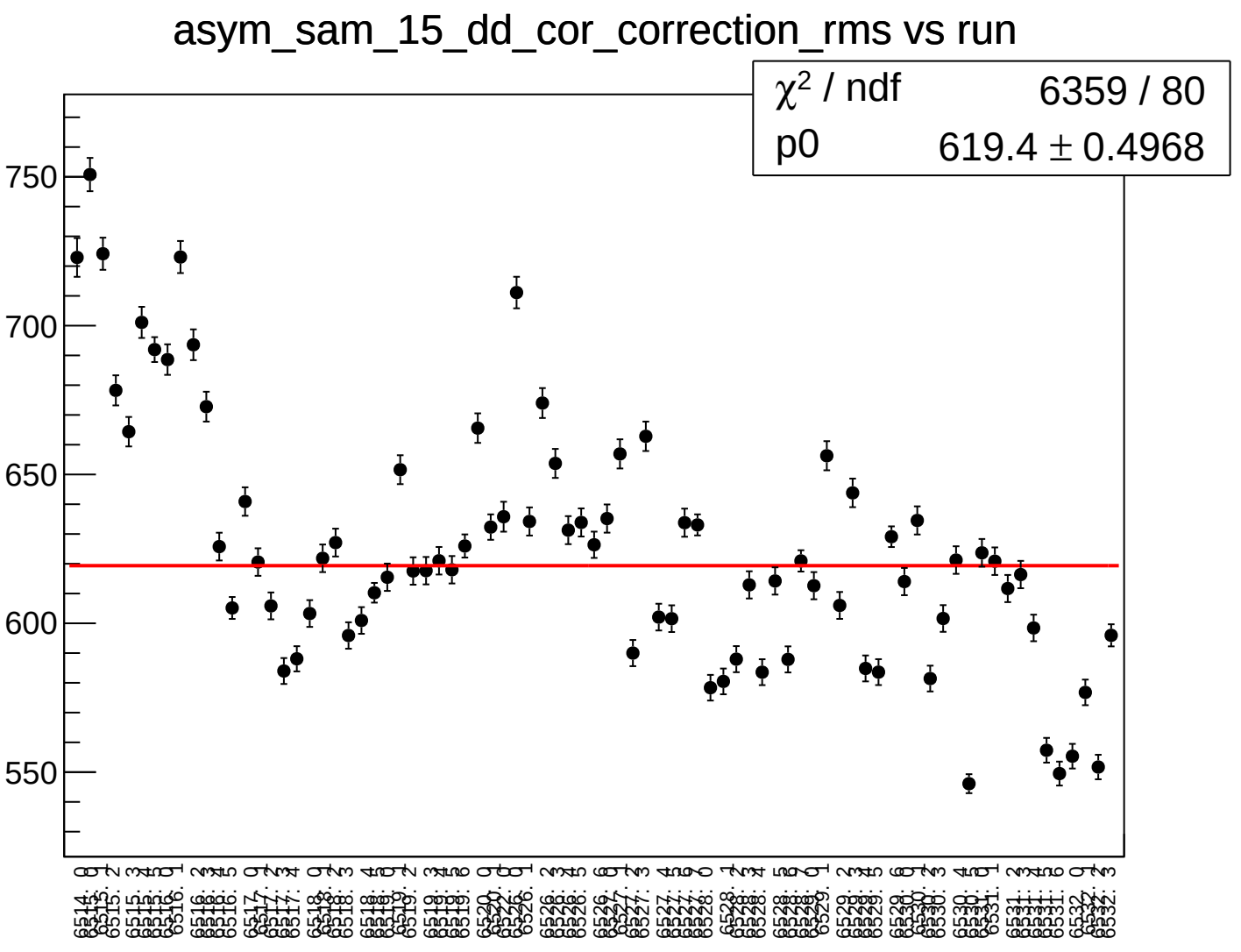

cor_asym_sam_15_dd_mean vs run
χ² / ndf 82.41 / 80
p0 −266.5 ± 98.37
pull
Entries 81
Mean 98.92
Std Dev 76.85

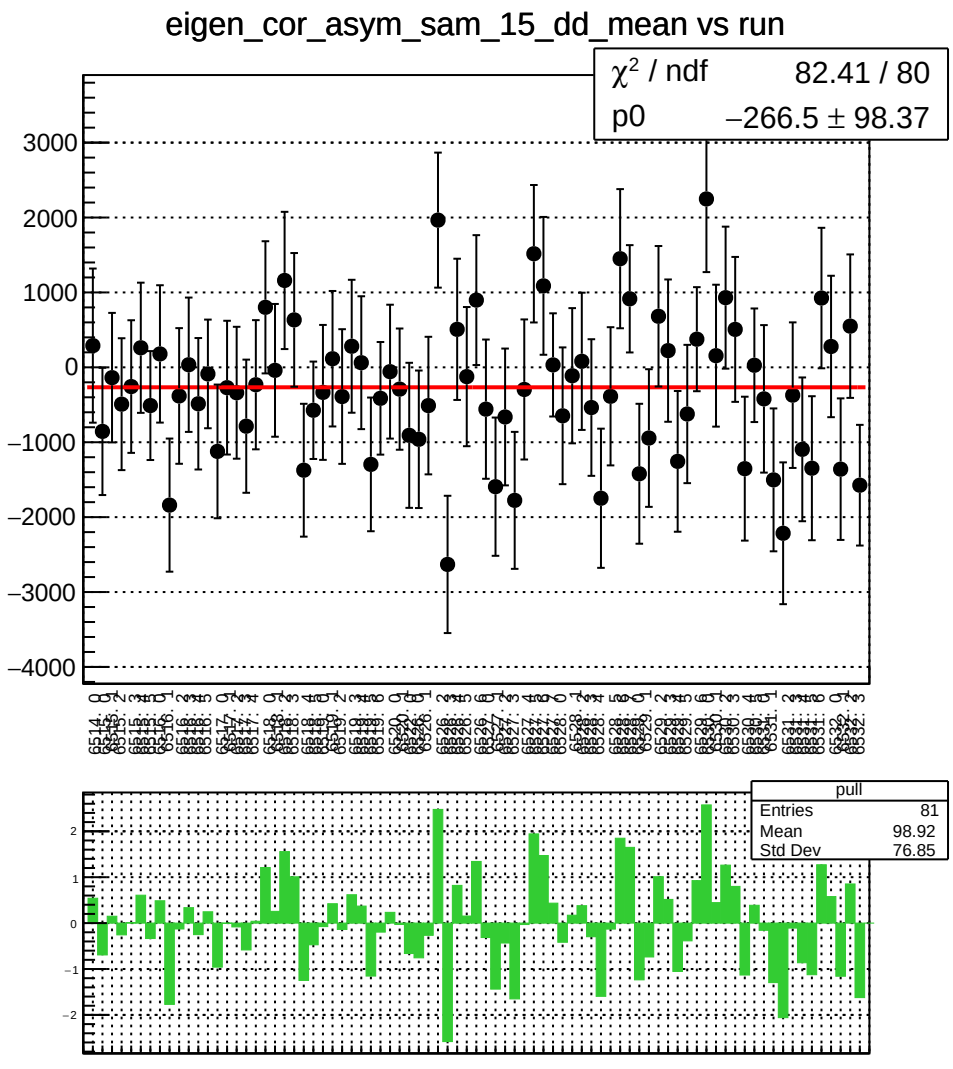

pull1D
Entries 81
Mean −0.005813
Std Dev 1.009

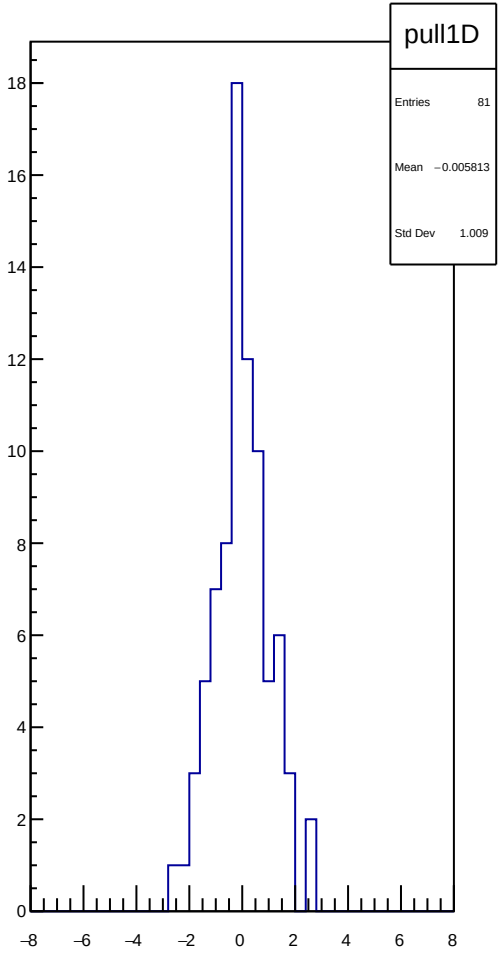

cor_asym_sam_15_dd_rms vs run
χ² / ndf 1565 / 80
p0 86.86 ± 0.06956
94
92
90
88
86
84
82
80

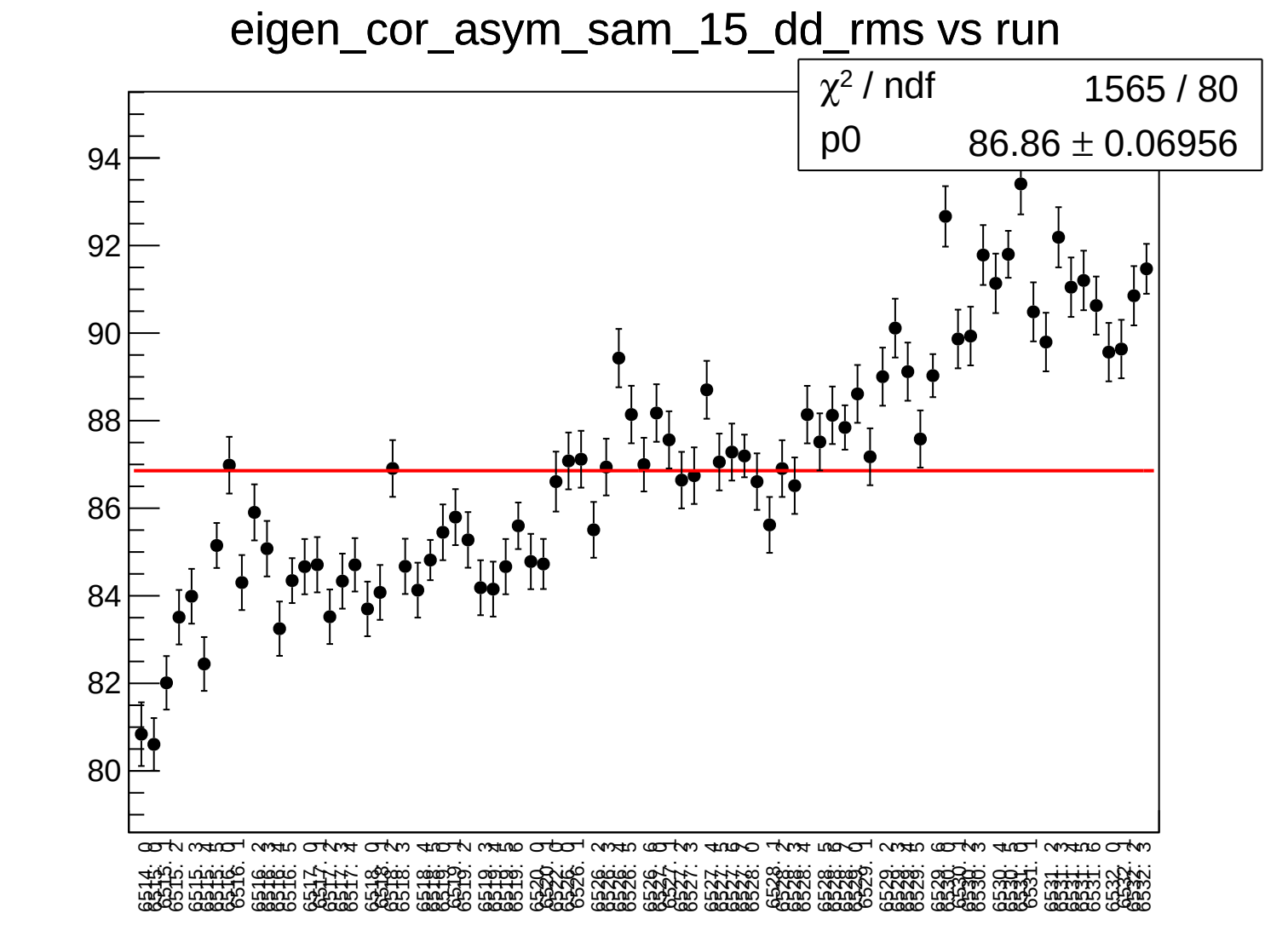

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 63.96 / 80
p0 1062 ± 702.5
pull
Entries 81
Mean 76.38
Std Dev 55.56

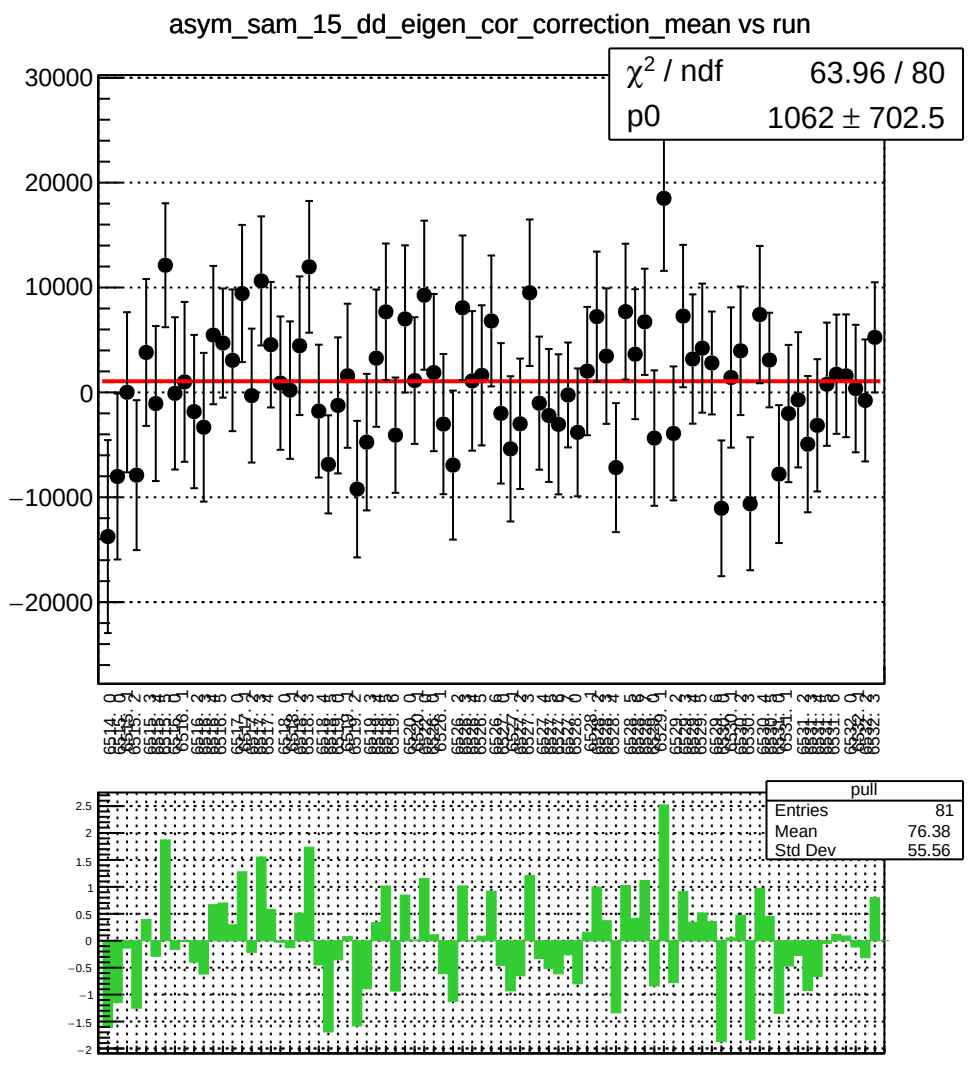

pull1D
Entries 81
Mean −0.01166
Std Dev 0.8886

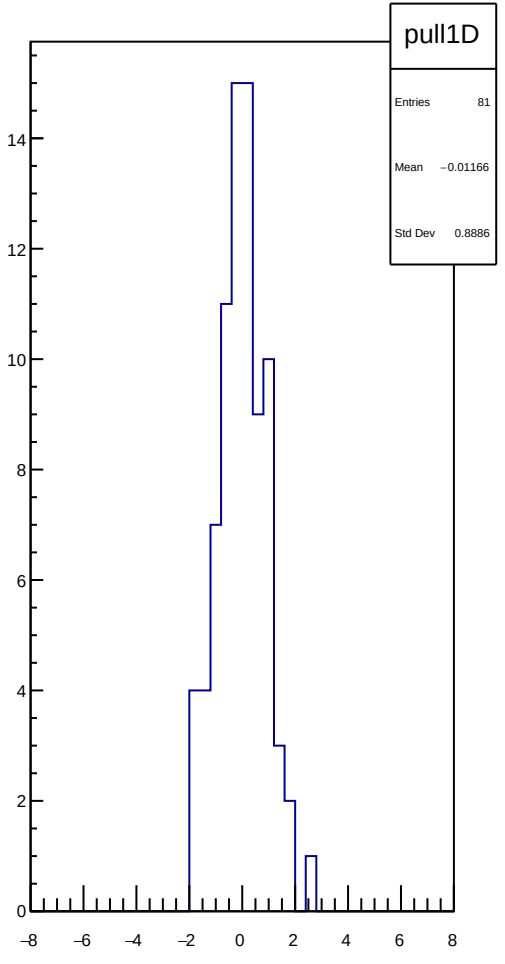

asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 6359 / 80
p0 619.4 ± 0.4968
750
700
650
600
550

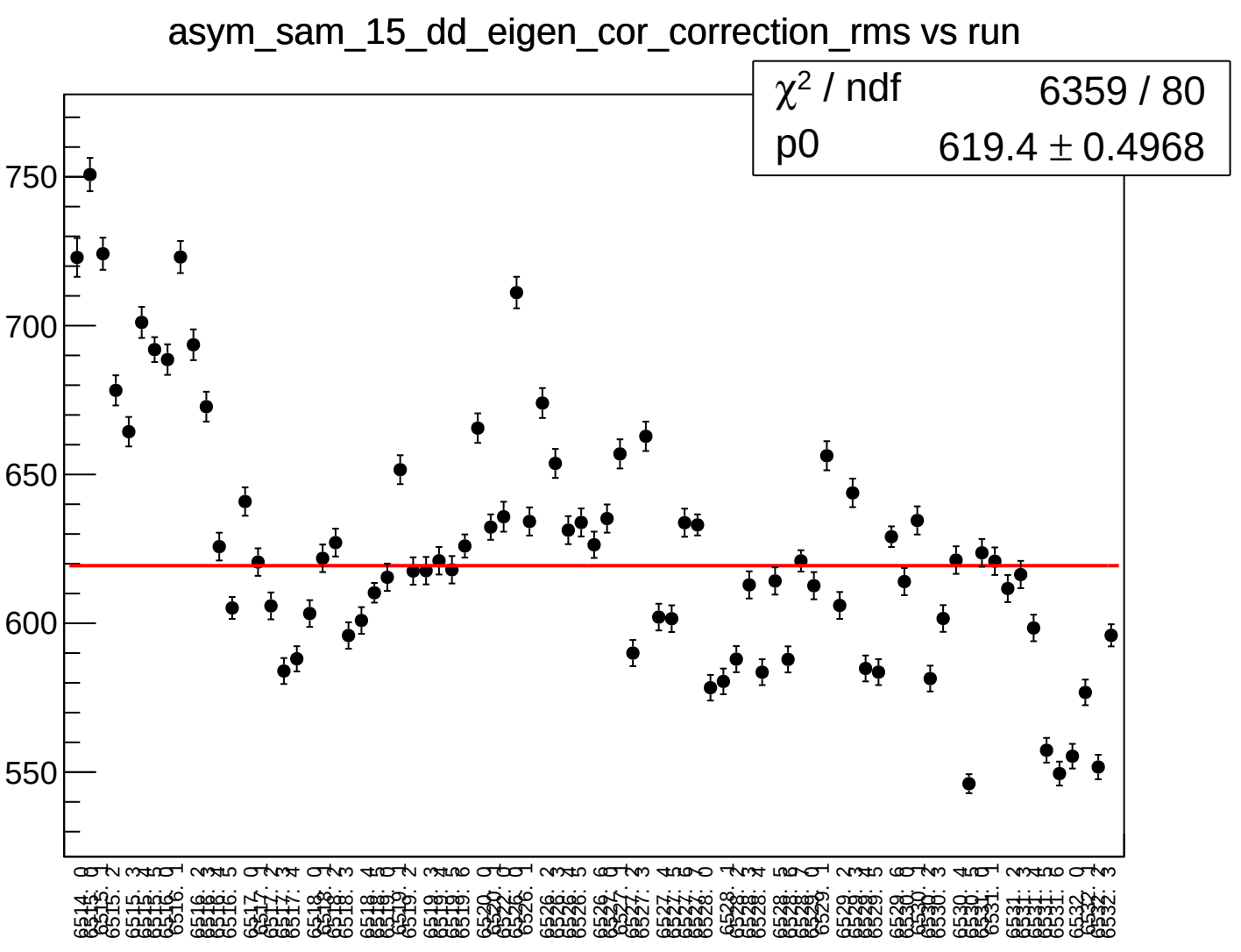

eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 82.41 / 80
p0 −266.5 ± 98.37
pull
Entries 81
Mean 98.92
Std Dev 76.85

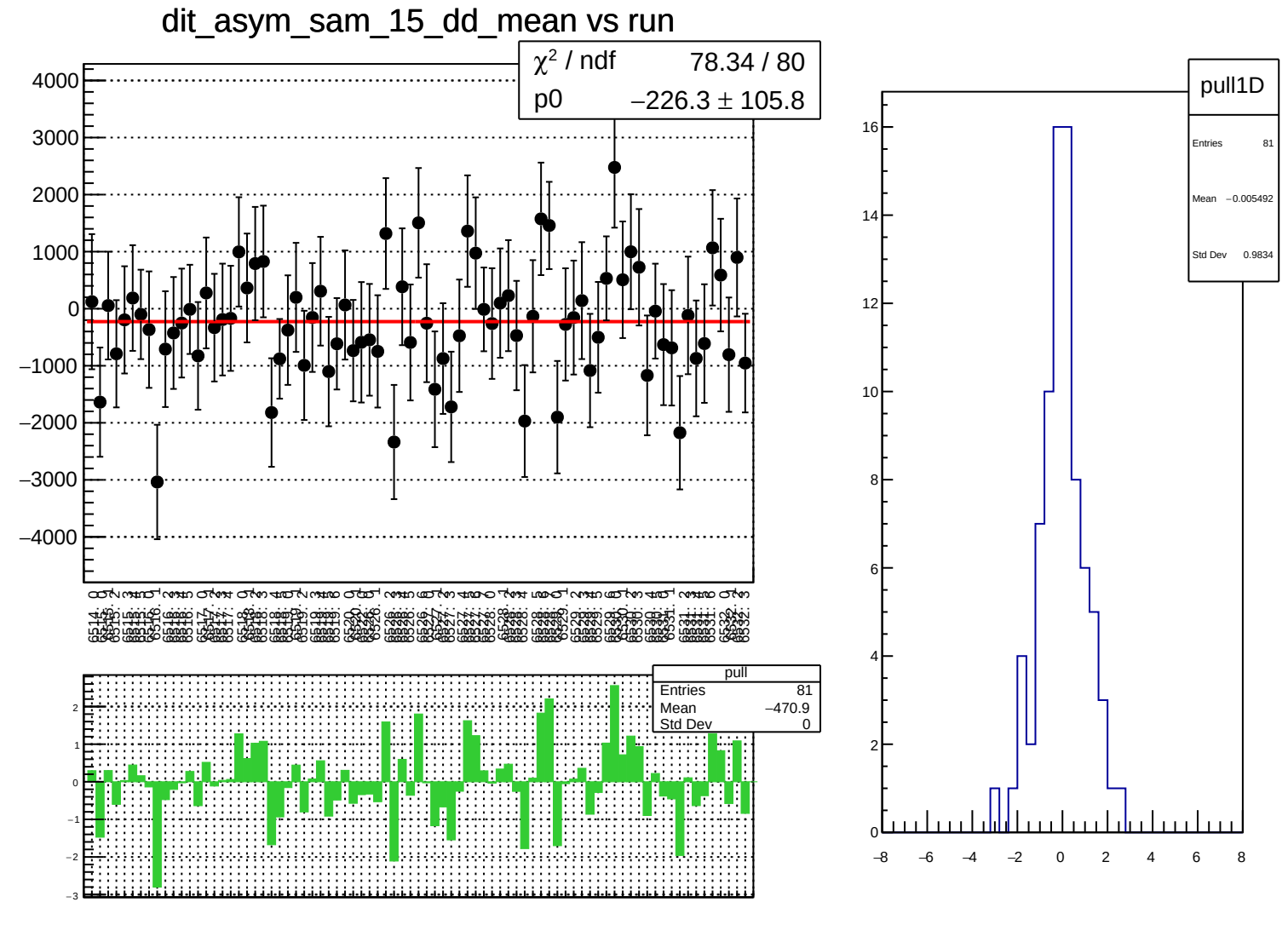

pull1D
Entries 81
Mean −0.005813
Std Dev 1.009

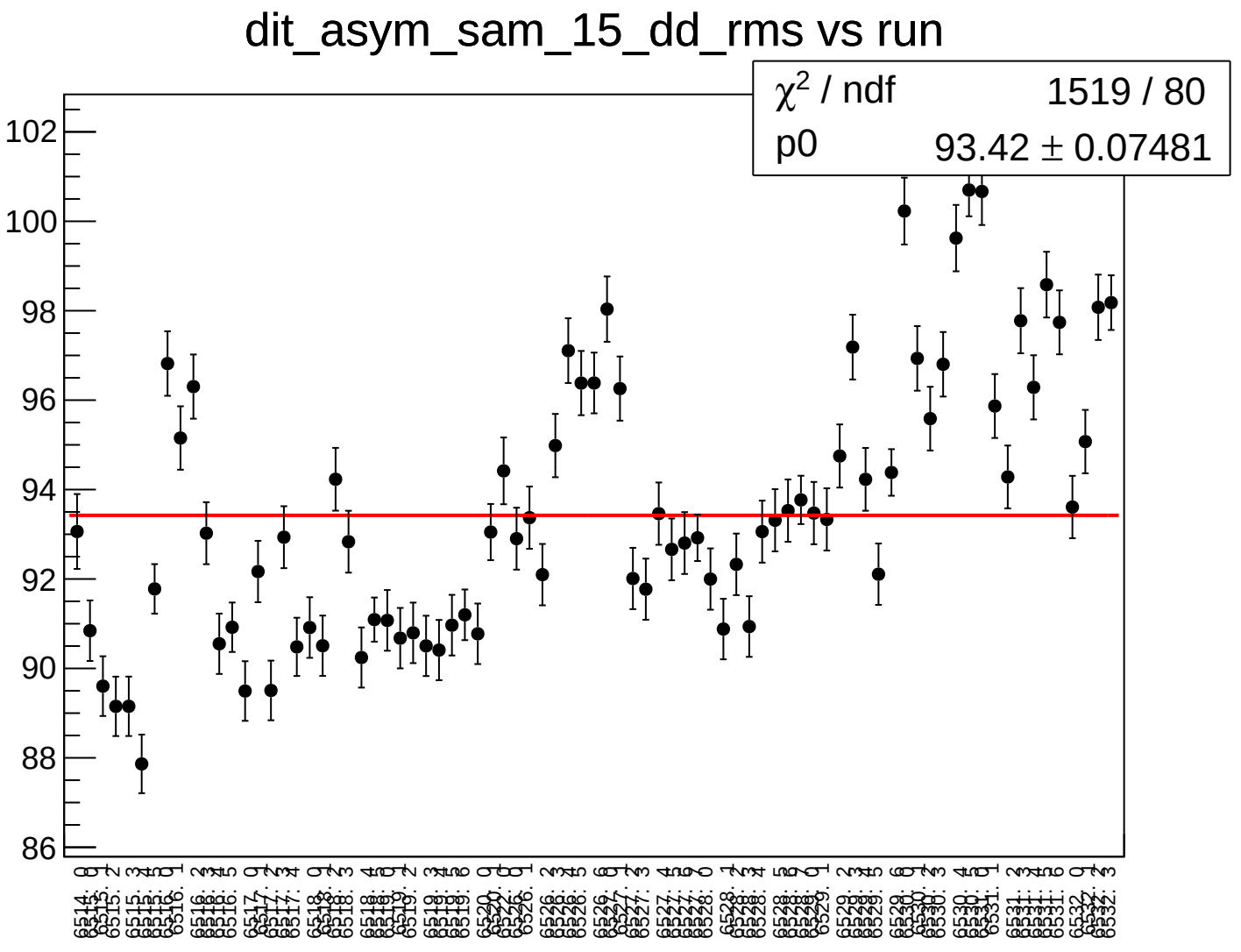

eigen_cor_asym_sam_15_dd_rms vs run
χ² / ndf 1565 / 80
p0 86.86 ± 0.06956
94
92
90
88
86
84
82
80

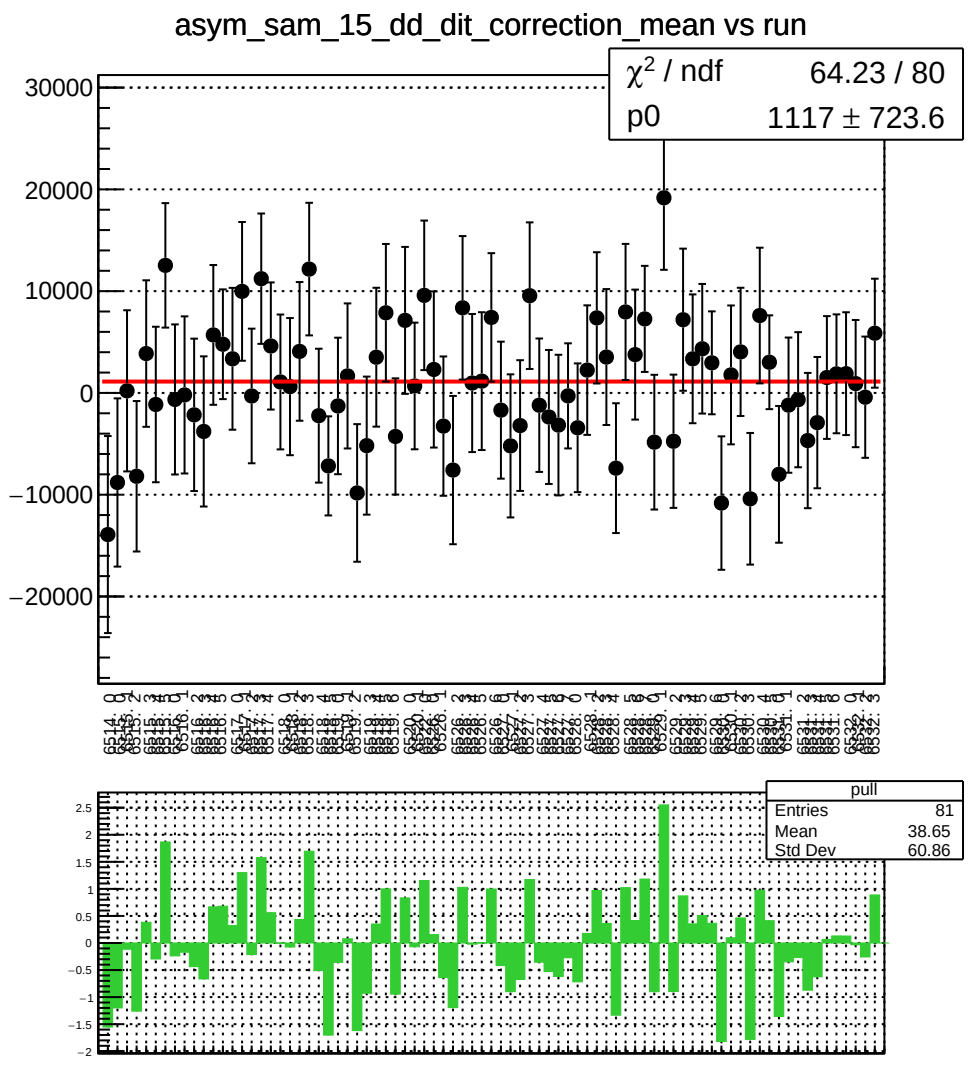

asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 63.96 / 80
p0 1062 ± 702.5
pull
Entries 81
Mean 76.38
Std Dev 55.56

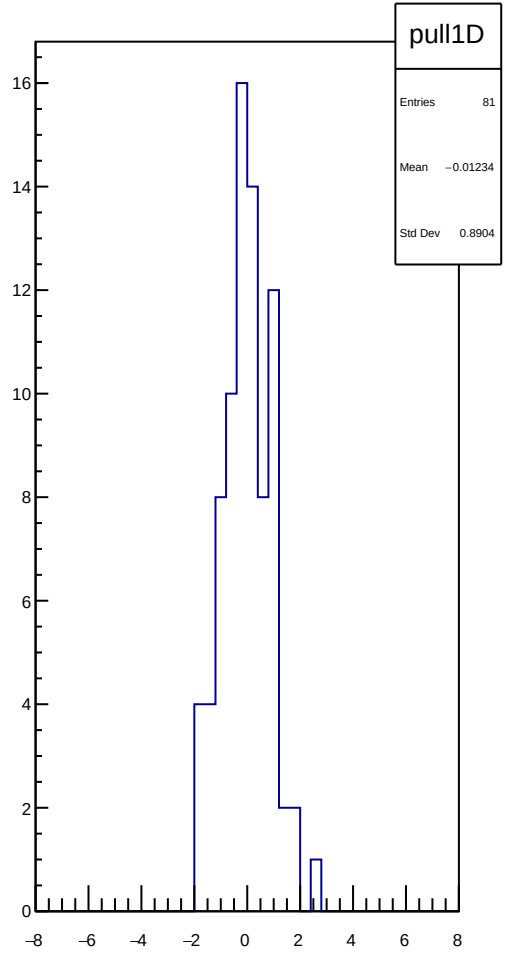

pull1D
Entries 81
Mean −0.01166
Std Dev 0.8886

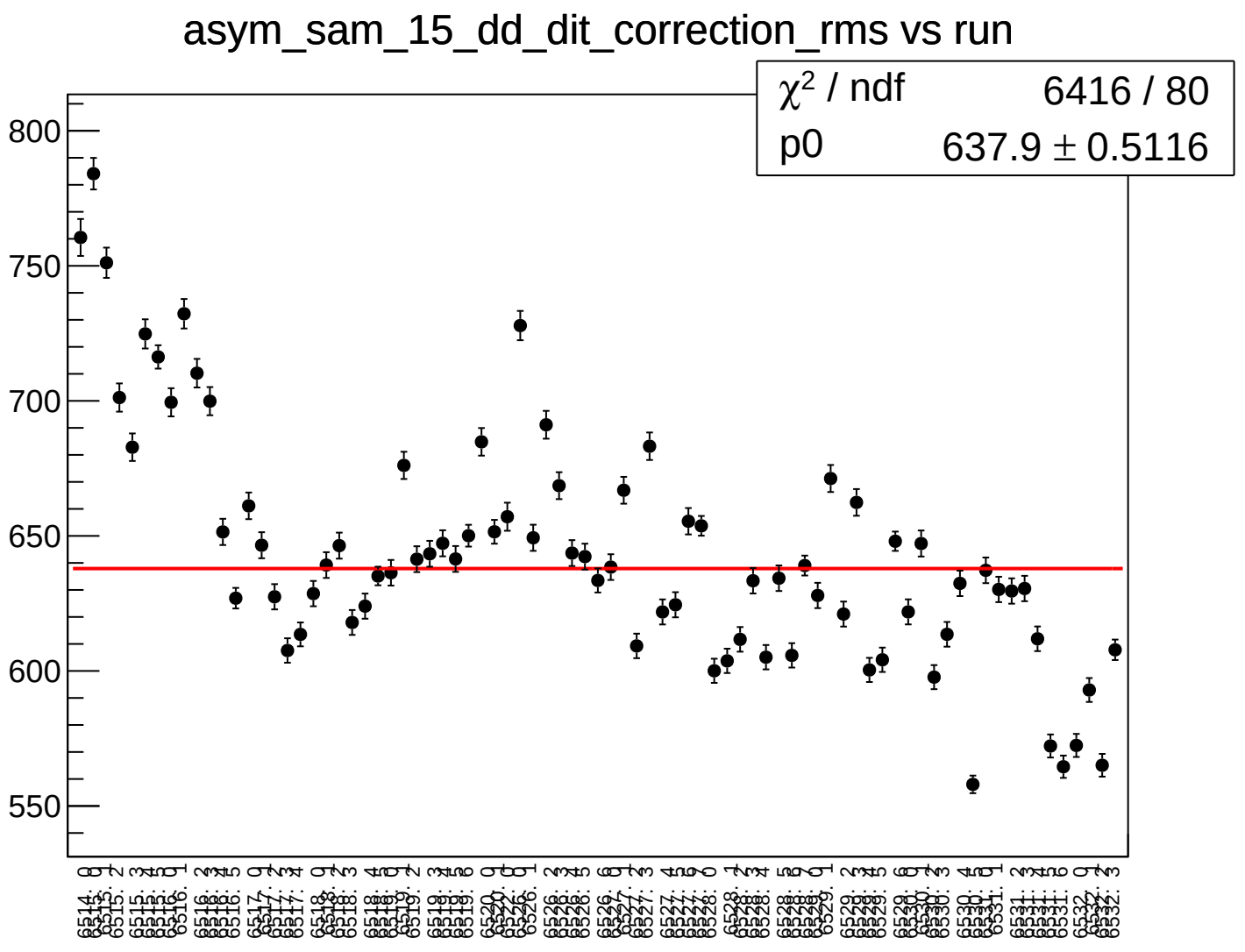

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 6359 / 80
p0 619.4 ± 0.4968
750
700
650
600
550

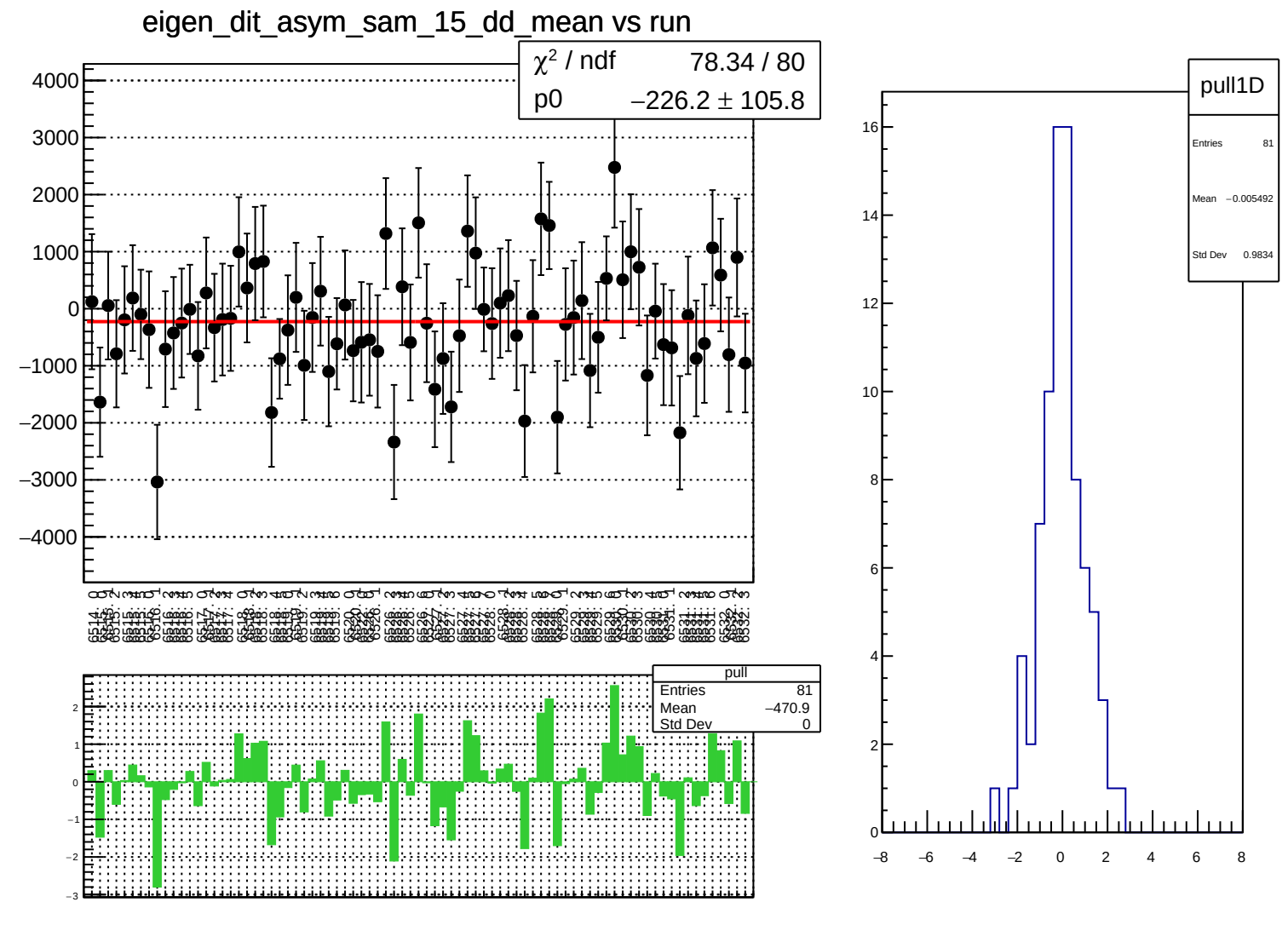

dit_asym_sam_15_dd_mean vs run
χ² / ndf 78.34 / 80
p0 −226.3 ± 105.8
pull
Entries 81
Mean −470.9
Std Dev 0
pull1D
Entries 81
Mean −0.005492
Std Dev 0.9834

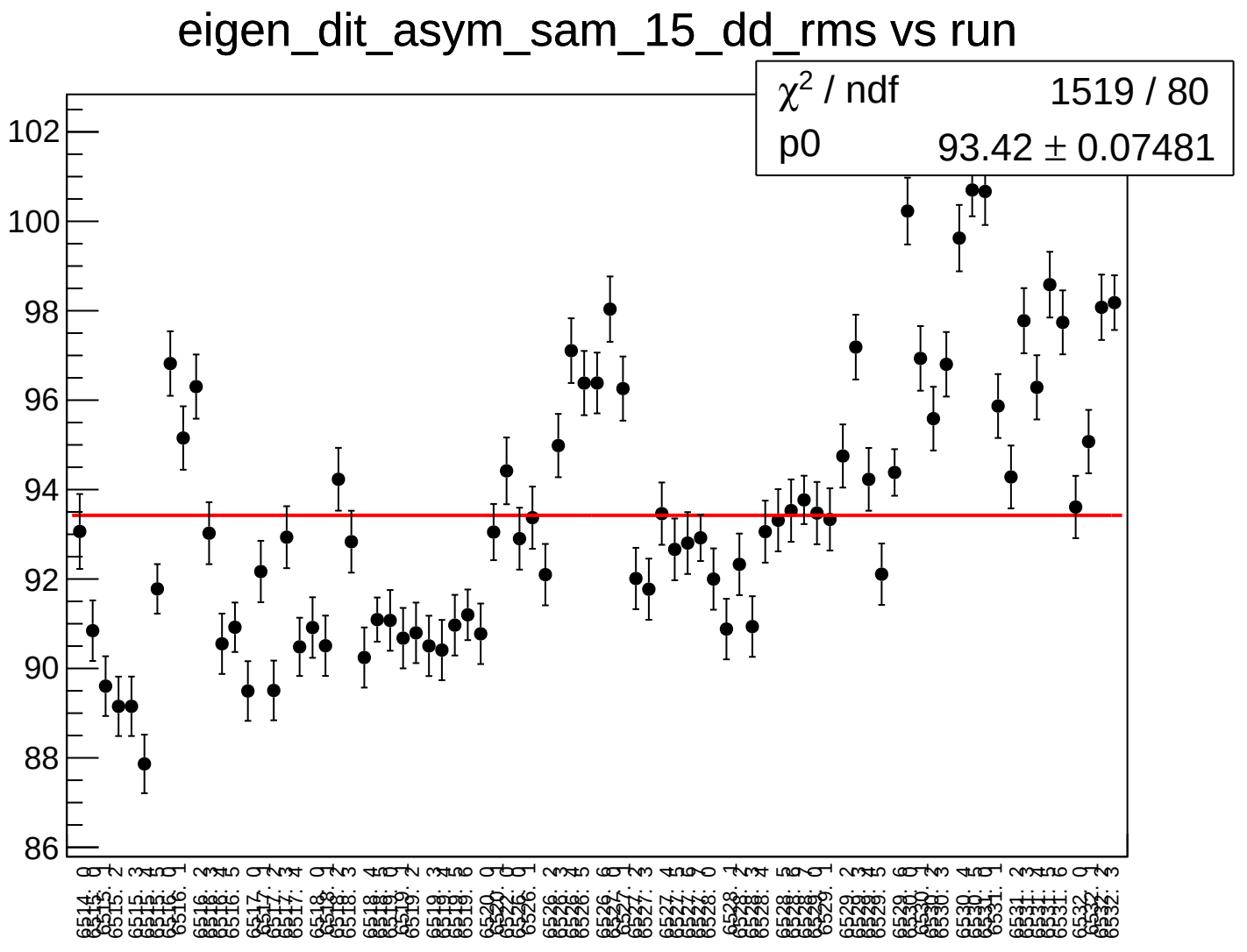

dit_asym_sam_15_dd_rms vs run
χ² / ndf 1519 / 80
p0 93.42 ± 0.07481
102
100
98
96
94
92
90
88
86

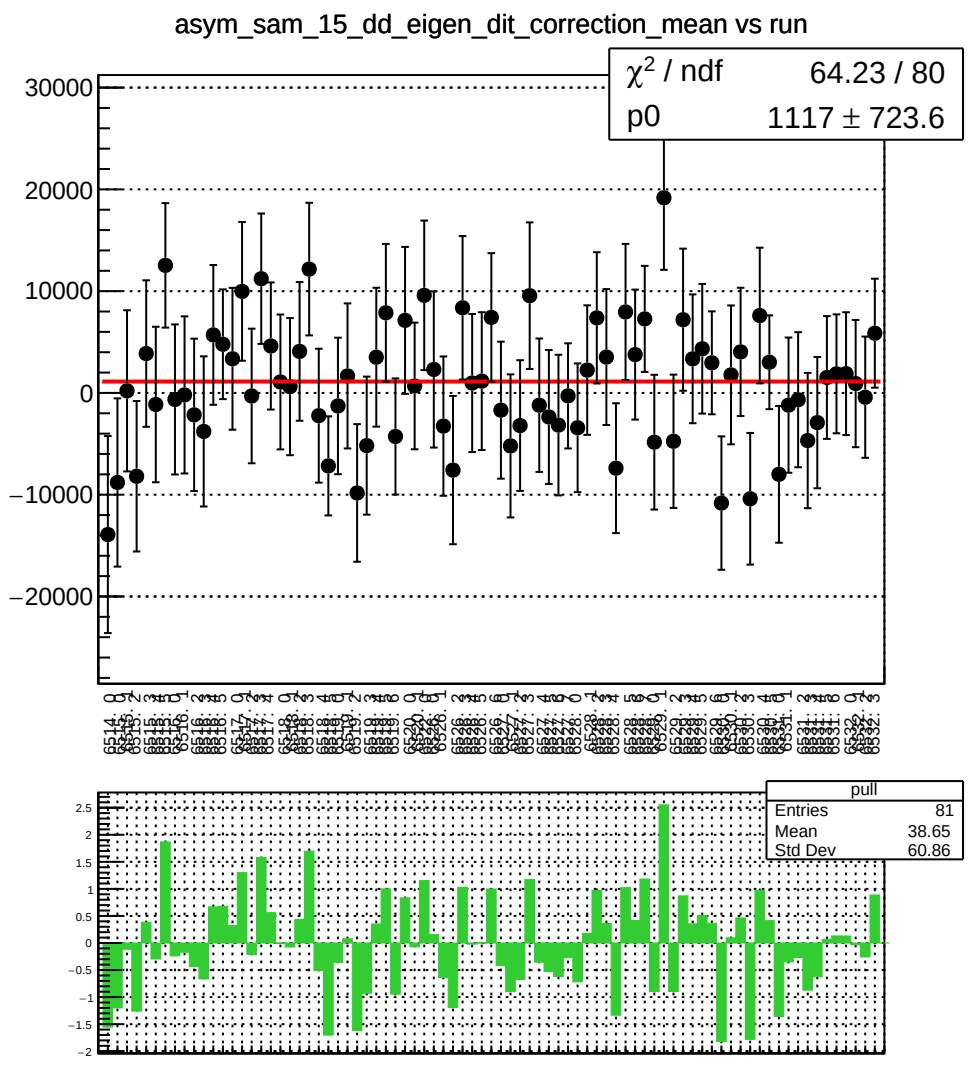

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 64.23 / 80
p0 1117 ± 723.6
30000
20000
10000
0
−10000
−20000
pull
Entries 81
Mean 38.65
Std Dev 60.86
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

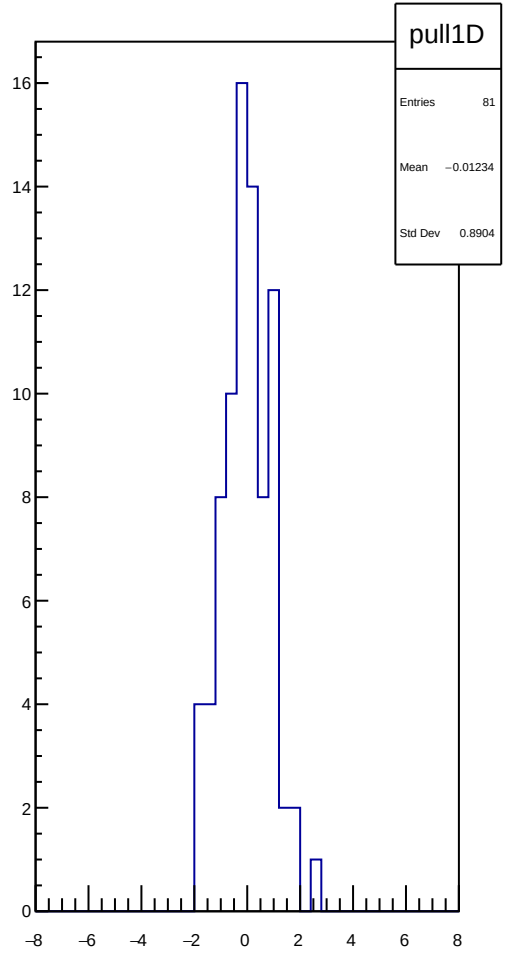

pull1D
Entries 81
Mean −0.01234
Std Dev 0.8904
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

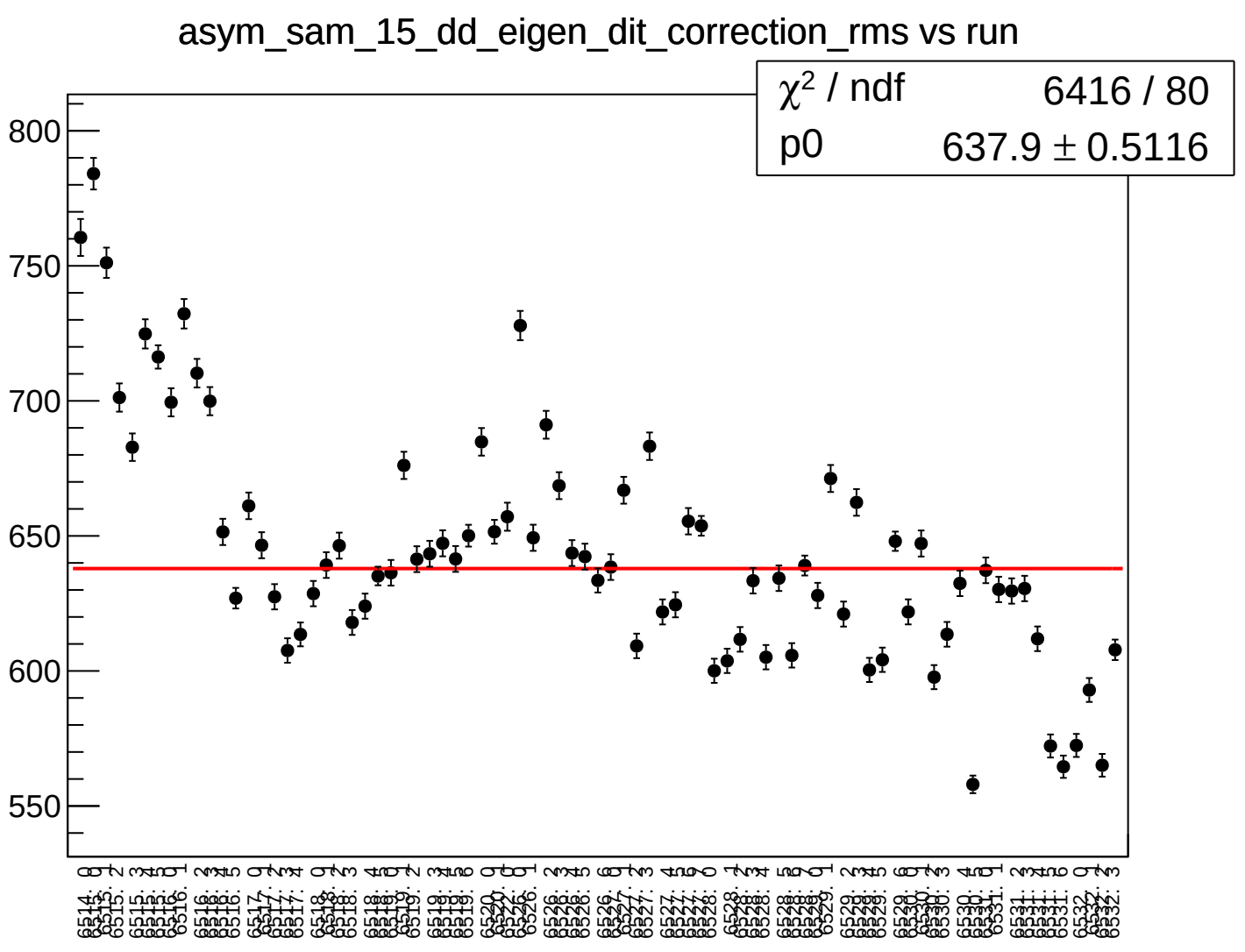

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 6416 / 80
p0 637.9 ± 0.5116
800
750
700
650
600
550

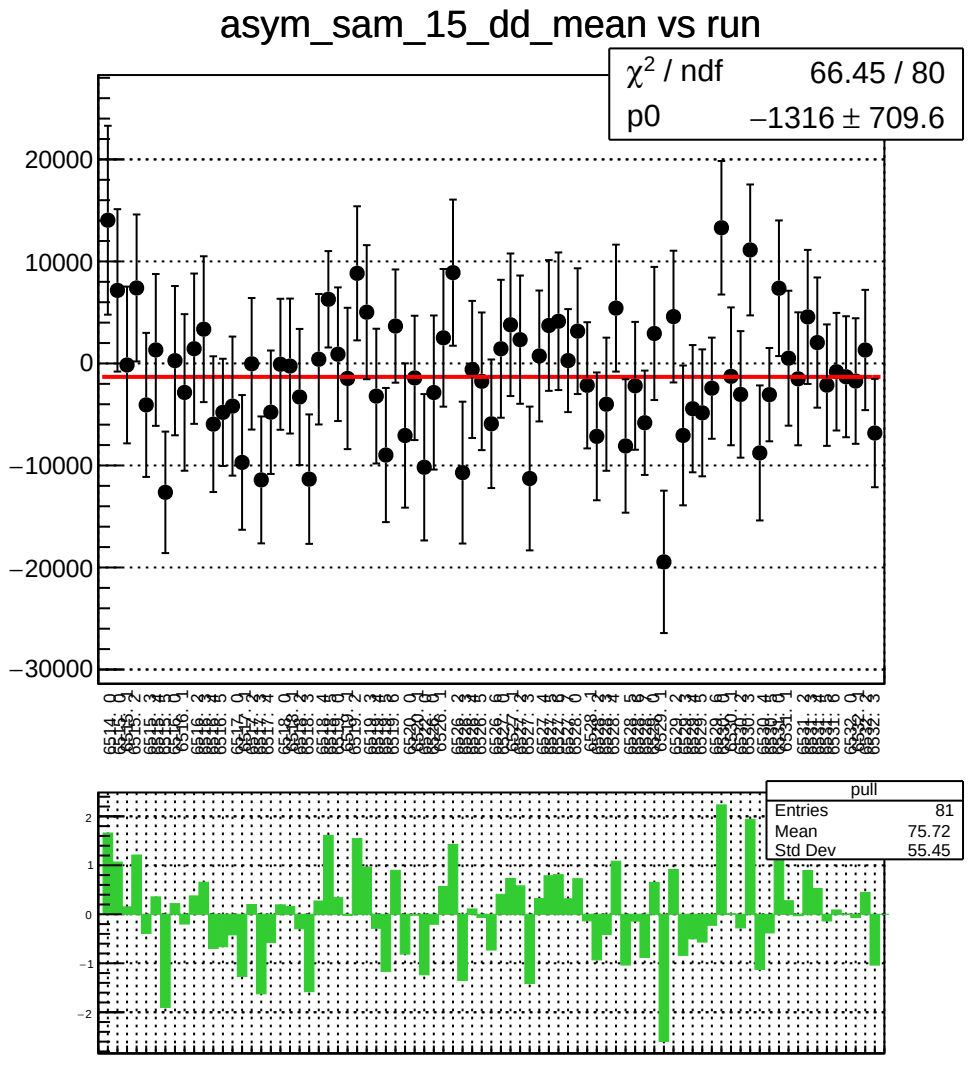

eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 78.34 / 80
p0 −226.2 ± 105.8
pull
Entries 81
Mean −470.9
Std Dev 0
pull1D
Entries 81
Mean −0.005492
Std Dev 0.9834

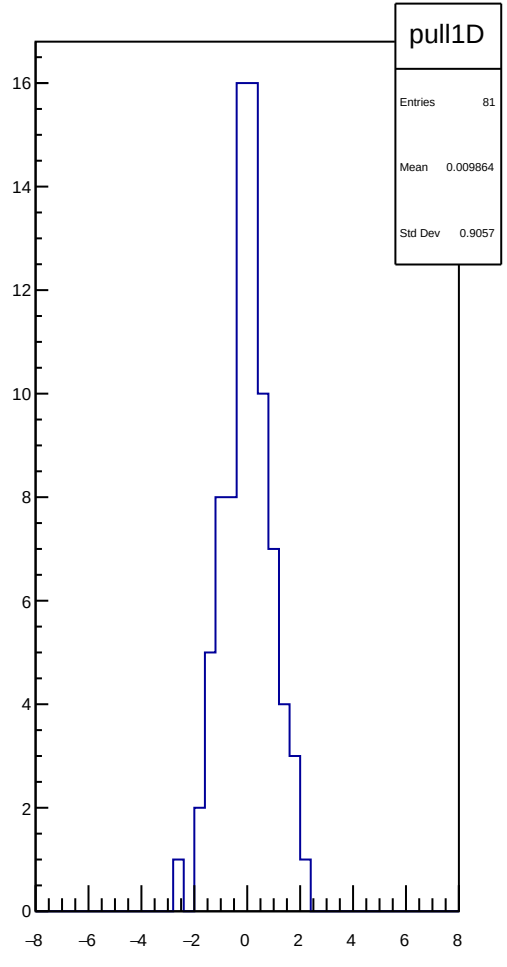

eigen_dit_asym_sam_15_dd_rms vs run
χ² / ndf 1519 / 80
p0 93.42 ± 0.07481
102
100
98
96
94
92
90
88
86

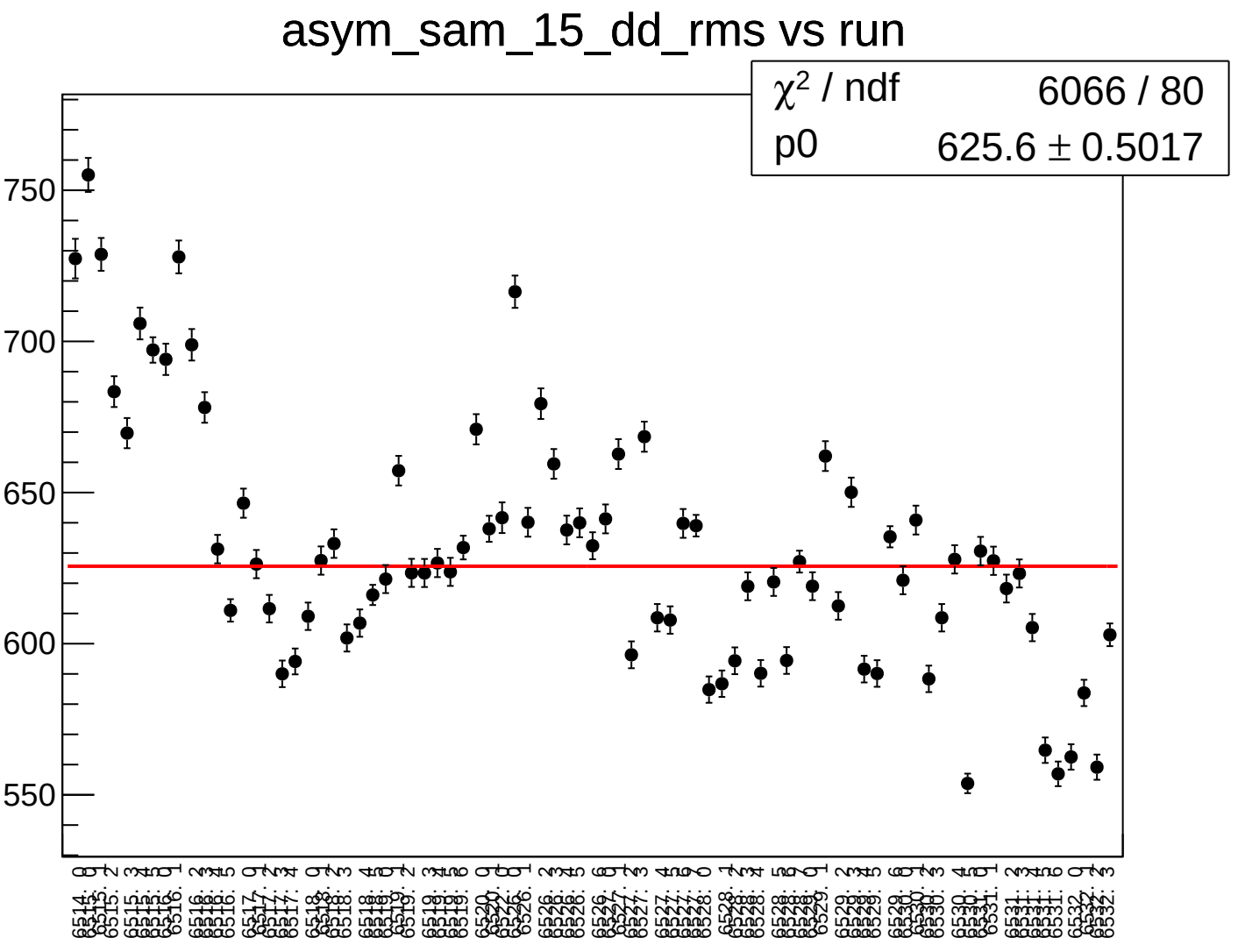

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 64.23 / 80
p0 1117 ± 723.6
30000
20000
10000
0
−10000
−20000
pull
Entries 81
Mean 38.65
Std Dev 60.86
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

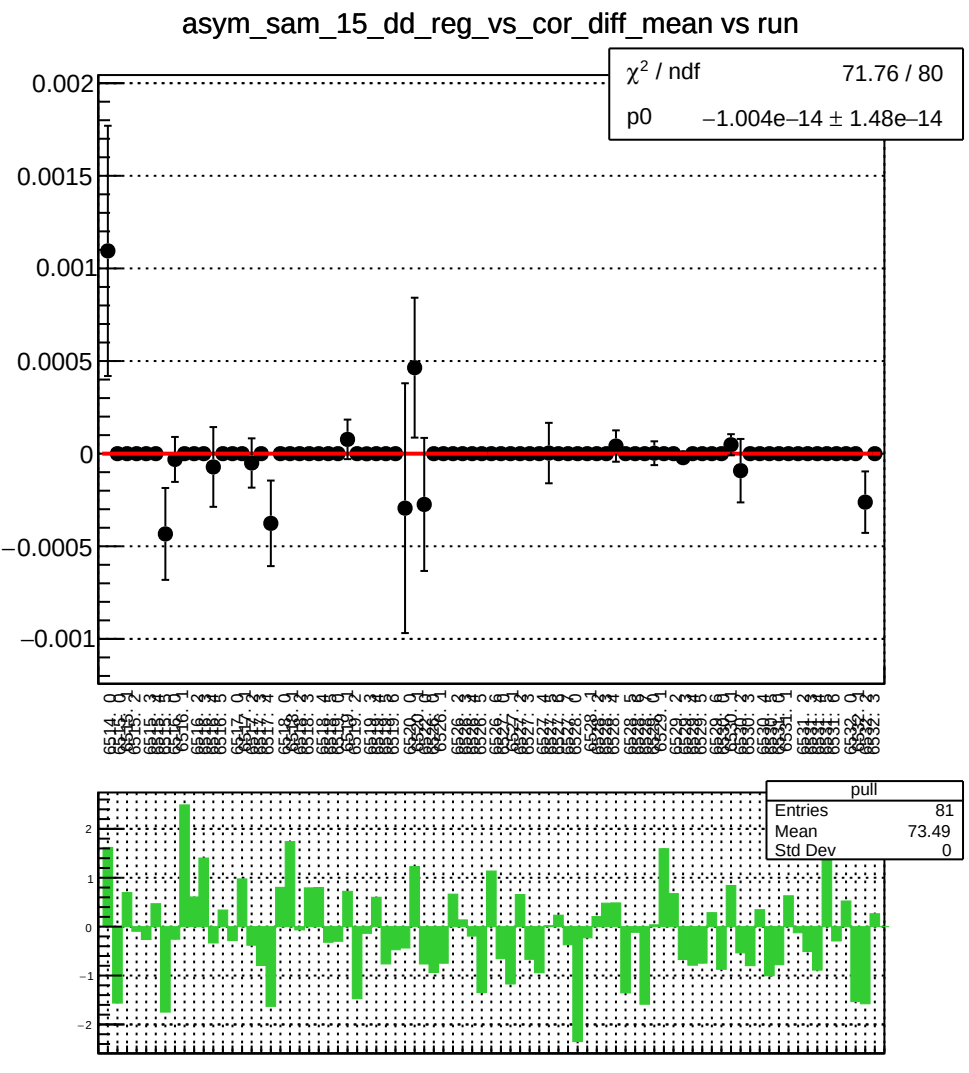

pull1D
Entries 81
Mean −0.01234
Std Dev 0.8904
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

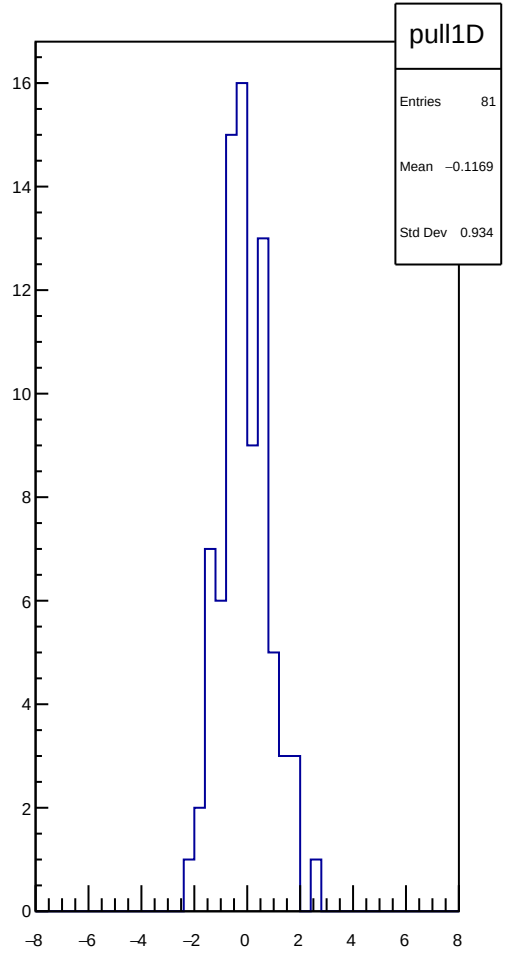

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 6416 / 80
p0 637.9 ± 0.5116
800
750
700
650
600
550

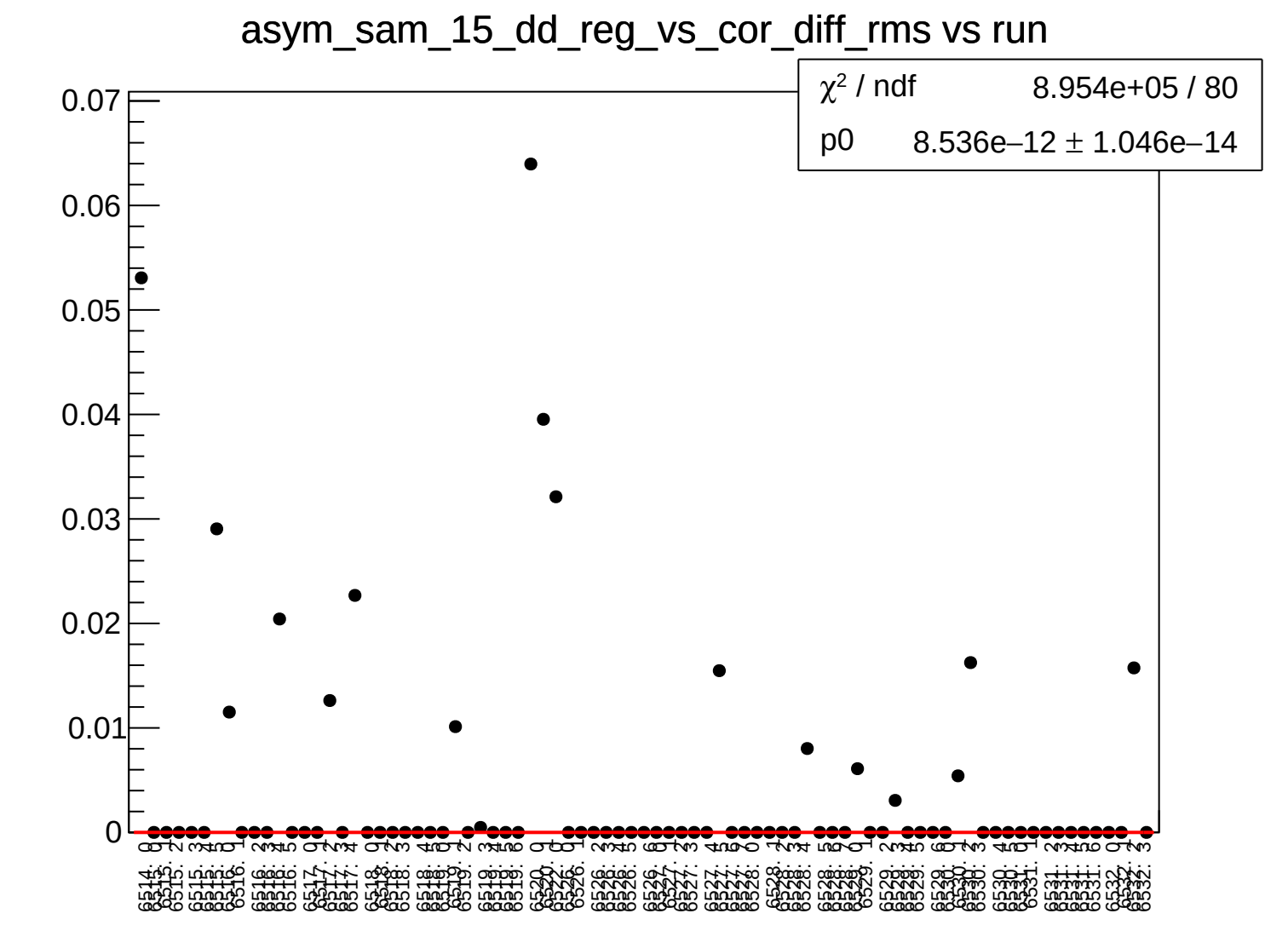

asym_sam_15_dd_mean vs run
χ² / ndf 66.45 / 80
p0 −1316 ± 709.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean 75.72
Std Dev 55.45
2
1
0
−1
−2

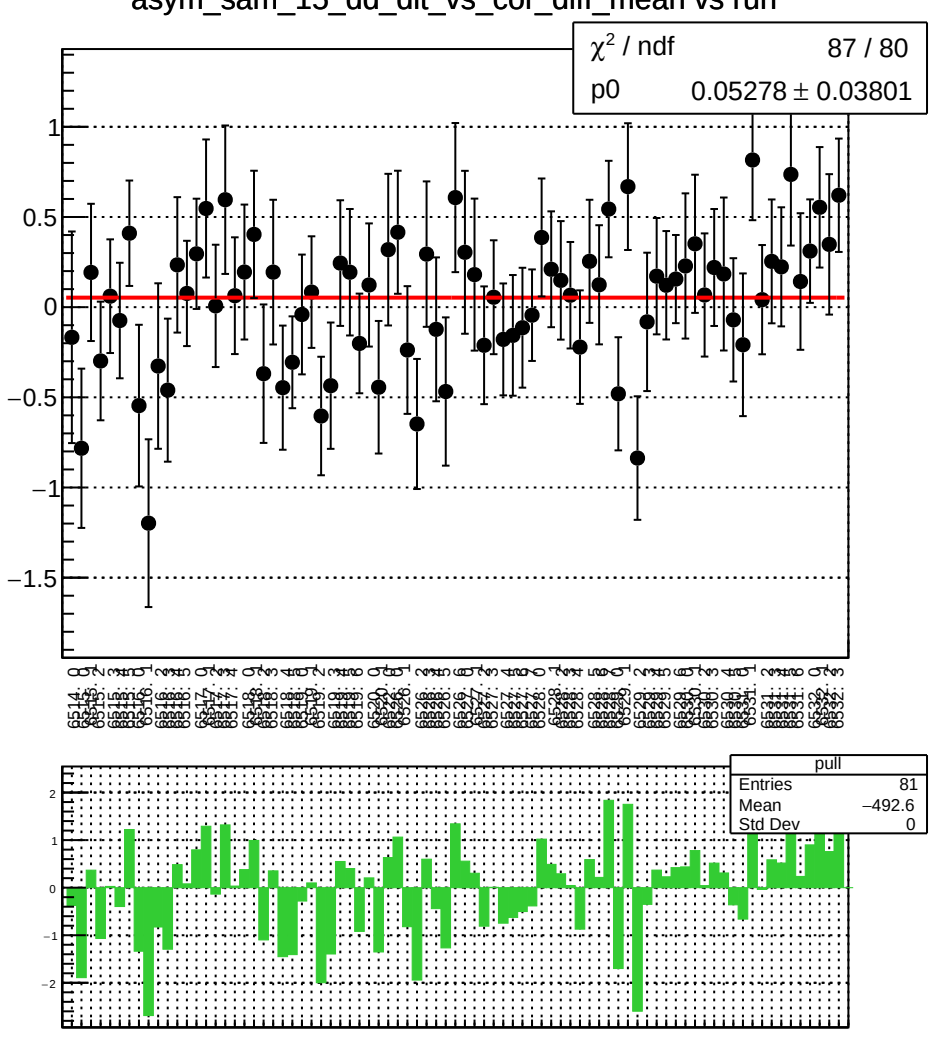

pull1D
Entries 81
Mean 0.009864
Std Dev 0.9057
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

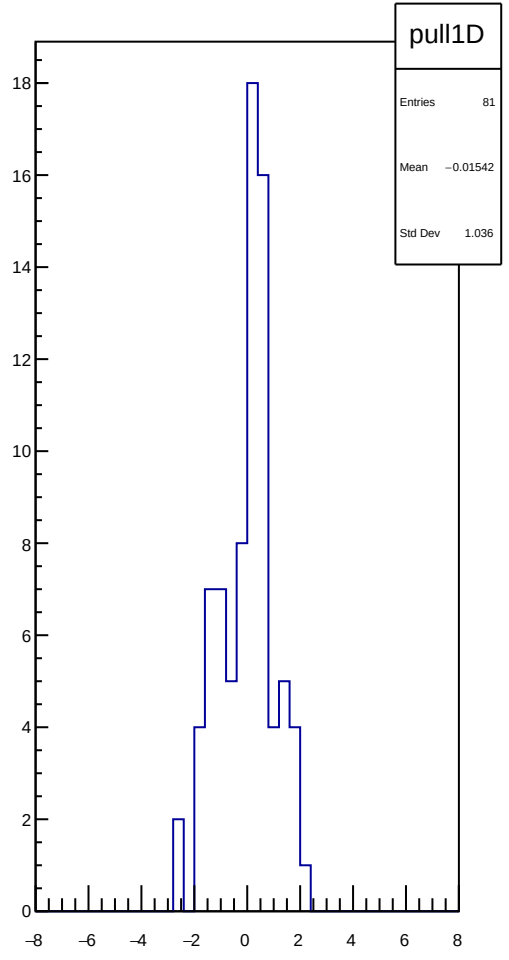

asym_sam_15_dd_rms vs run
χ² / ndf 6066 / 80
p0 625.6 ± 0.5017
750
700
650
600
550

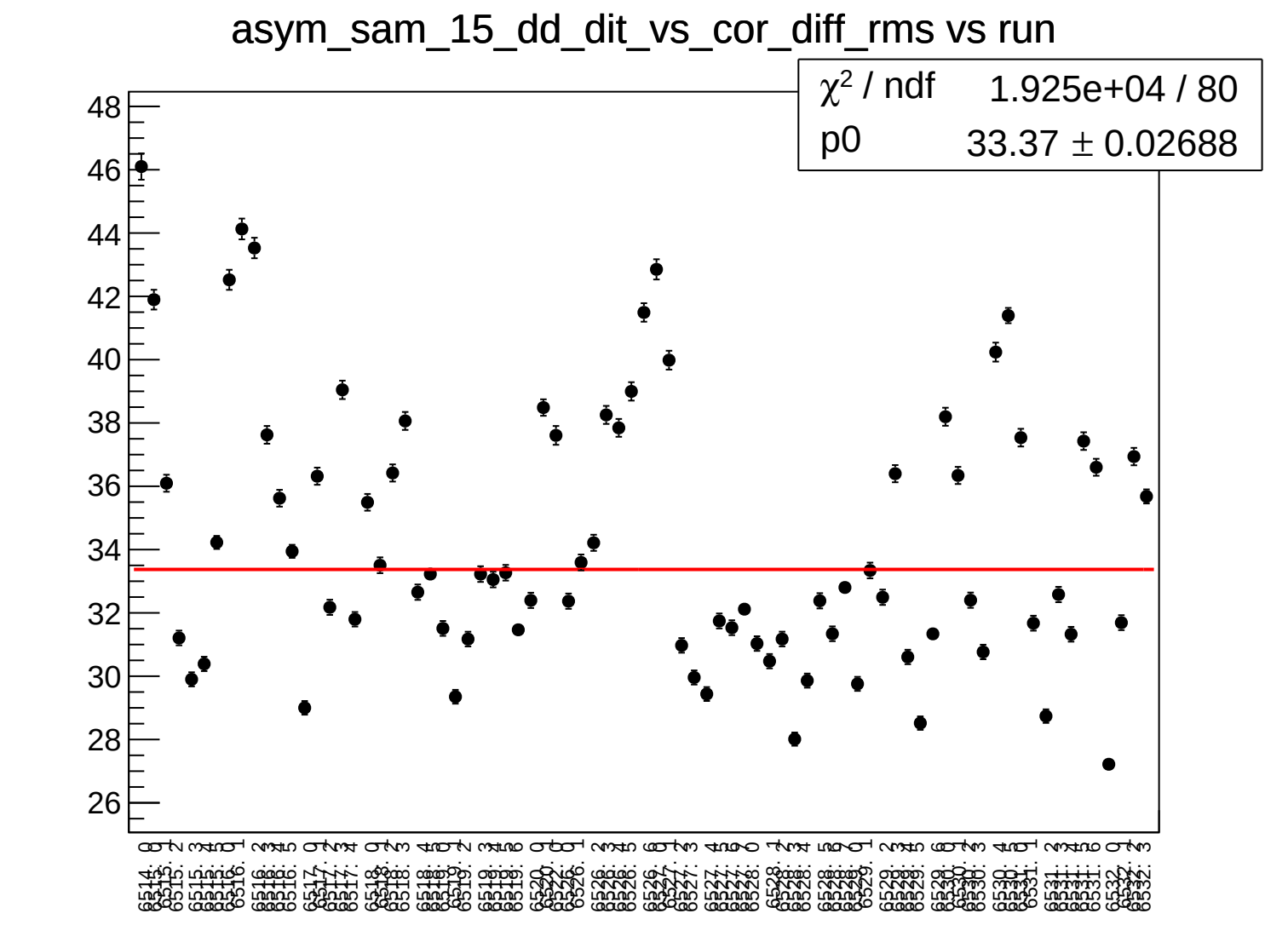

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 71.76 / 80
p0 −1.004e−14 ± 1.48e−14
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 81
Mean 73.49
Std Dev 0
2
1
0
−1
−2

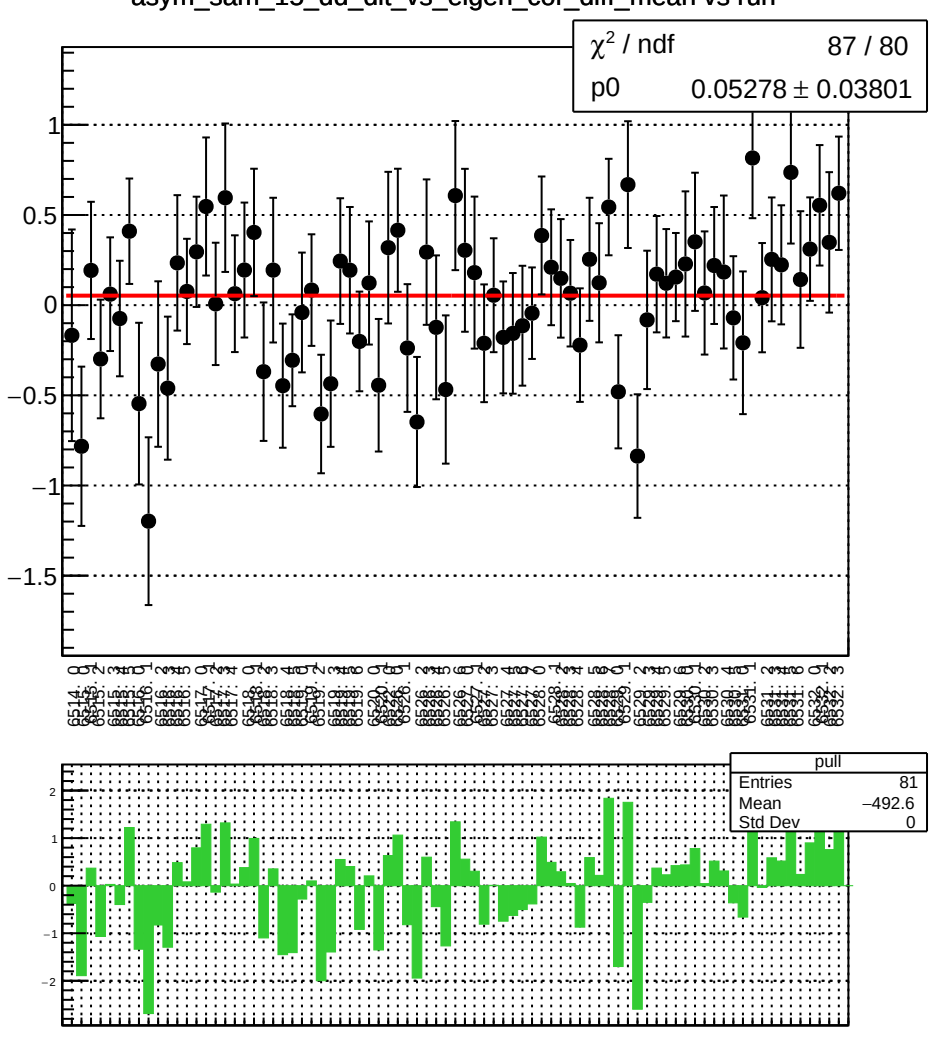

pull1D
Entries 81
Mean −0.1169
Std Dev 0.934
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

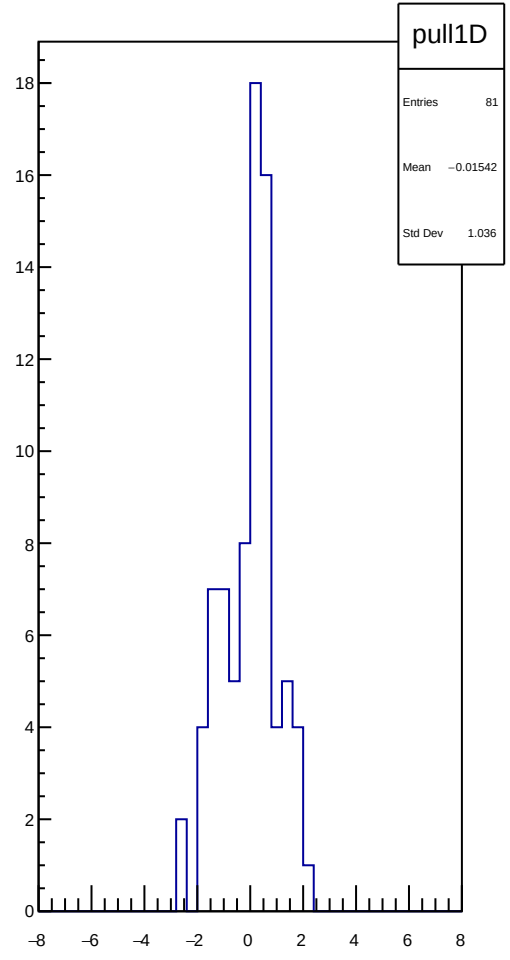

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.954e+05 / 80
p0 8.536e−12 ± 1.046e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

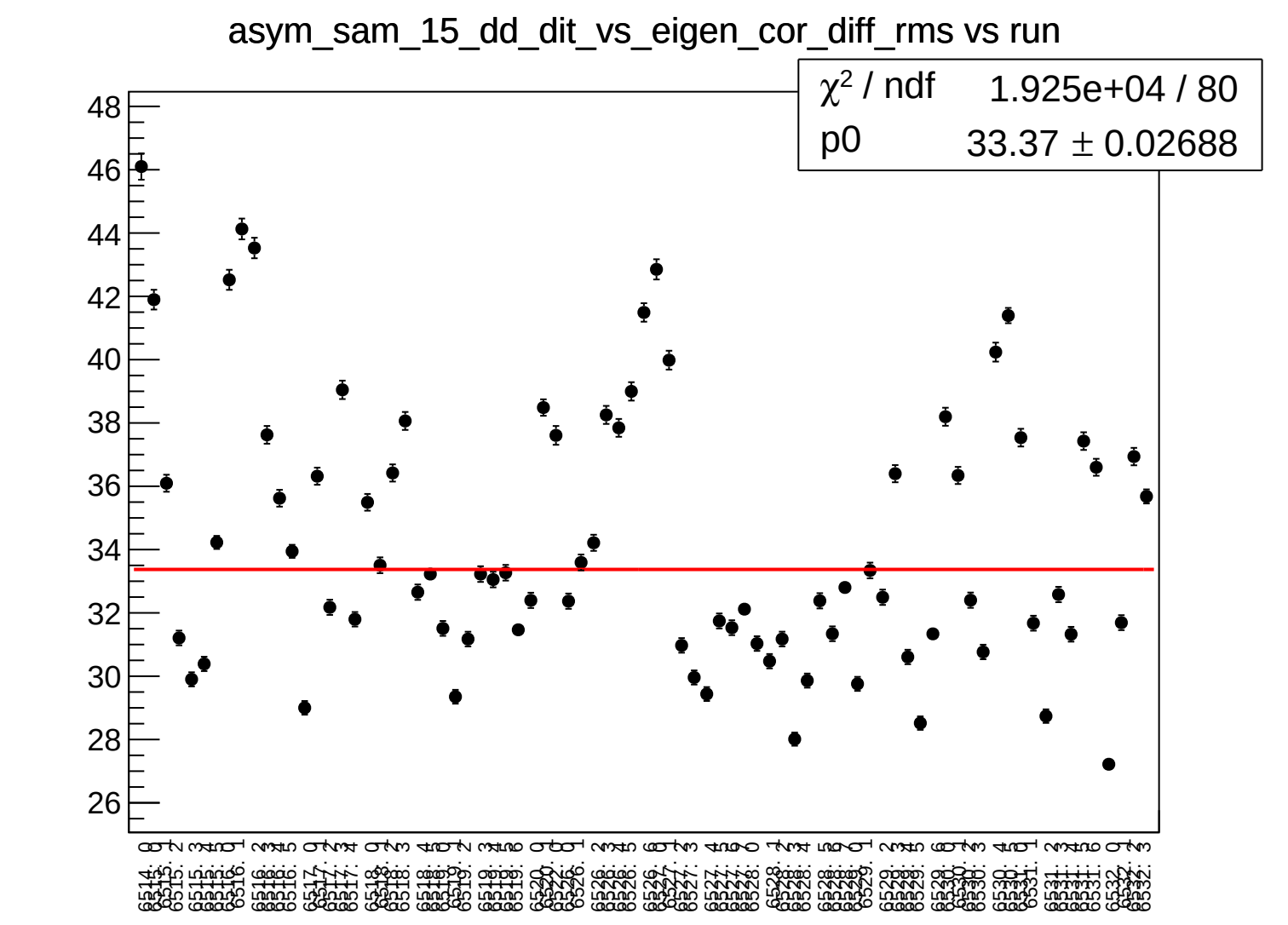

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87 / 80
p0 0.05278 ± 0.03801
pull
Entries 81
Mean −492.6
Std Dev 0

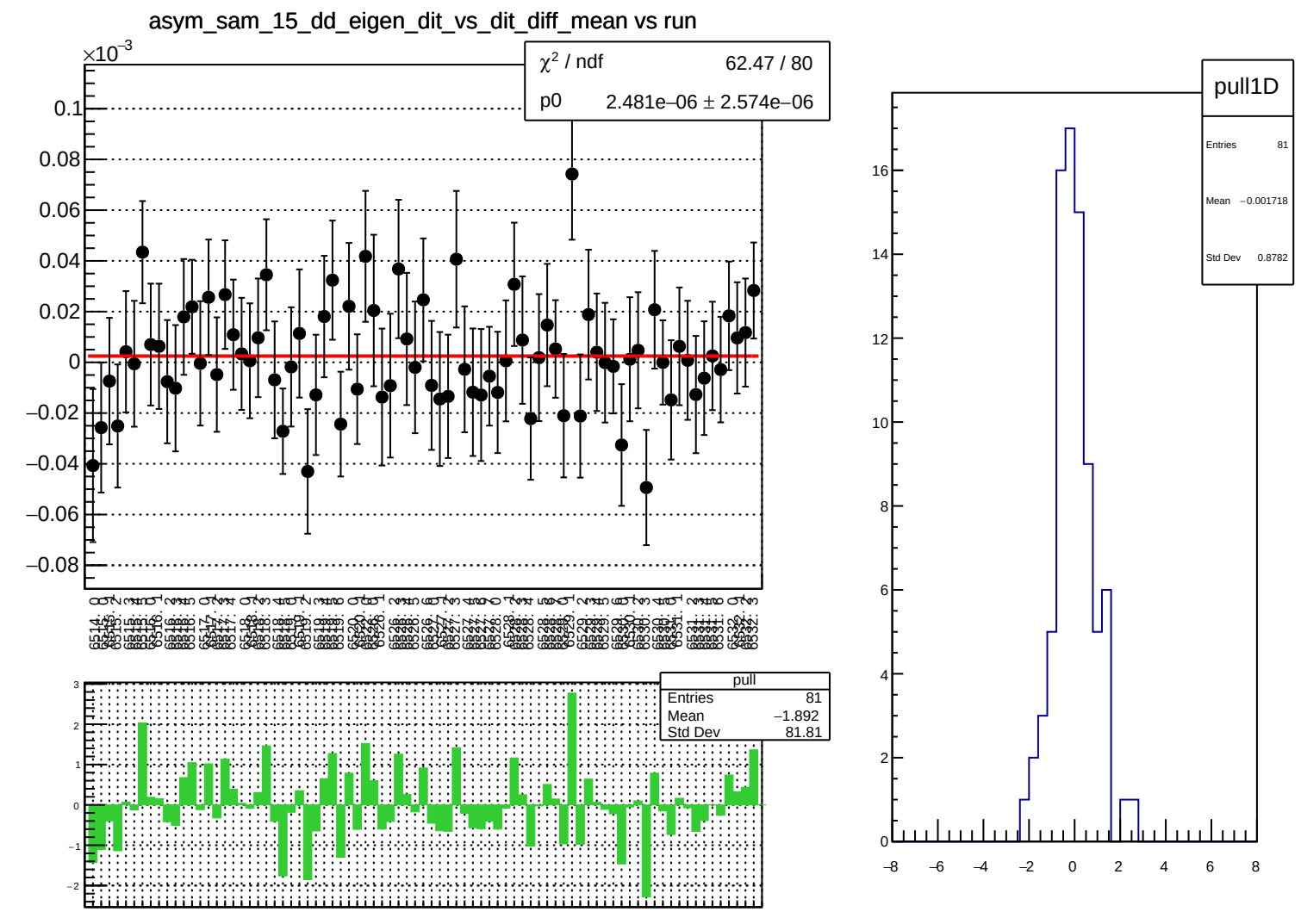

pull1D
Entries 81
Mean −0.01542
Std Dev 1.036

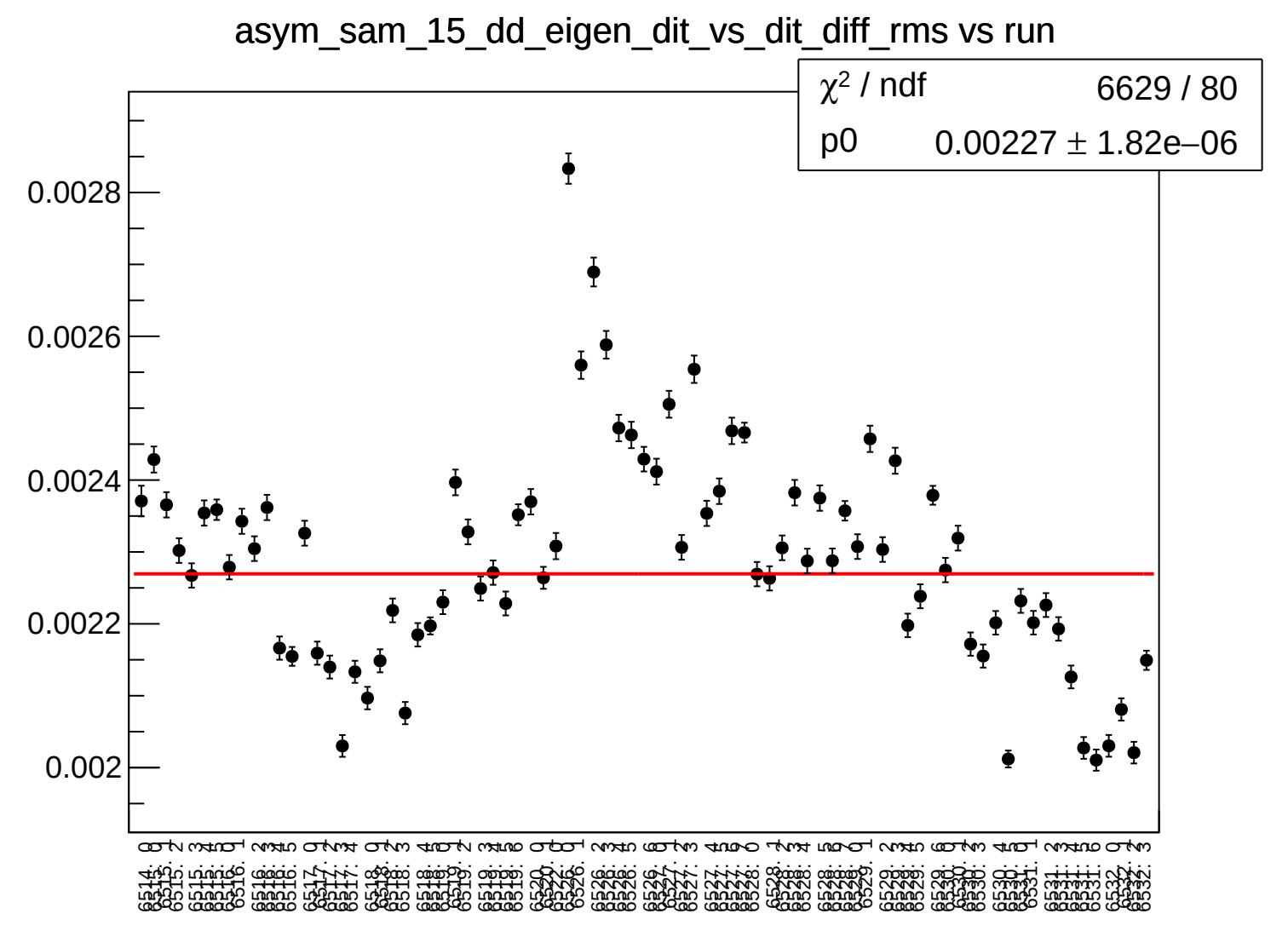

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.925e+04 / 80
p0 33.37 ± 0.02688
48
46
44
42
40
38
36
34
32
30
28
26

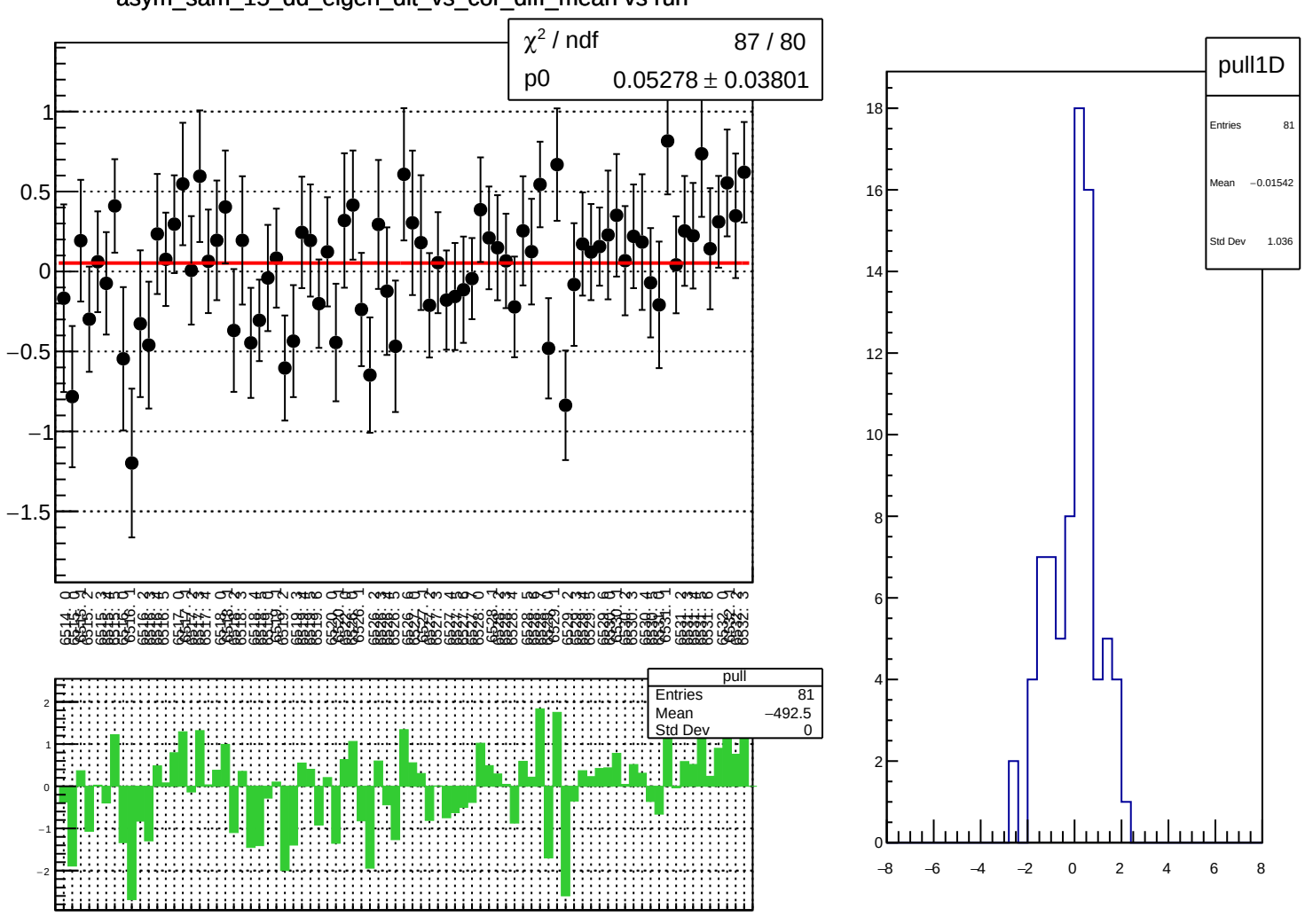

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87 / 80
p0 0.05278 ± 0.03801
pull
Entries 81
Mean −492.6
Std Dev 0

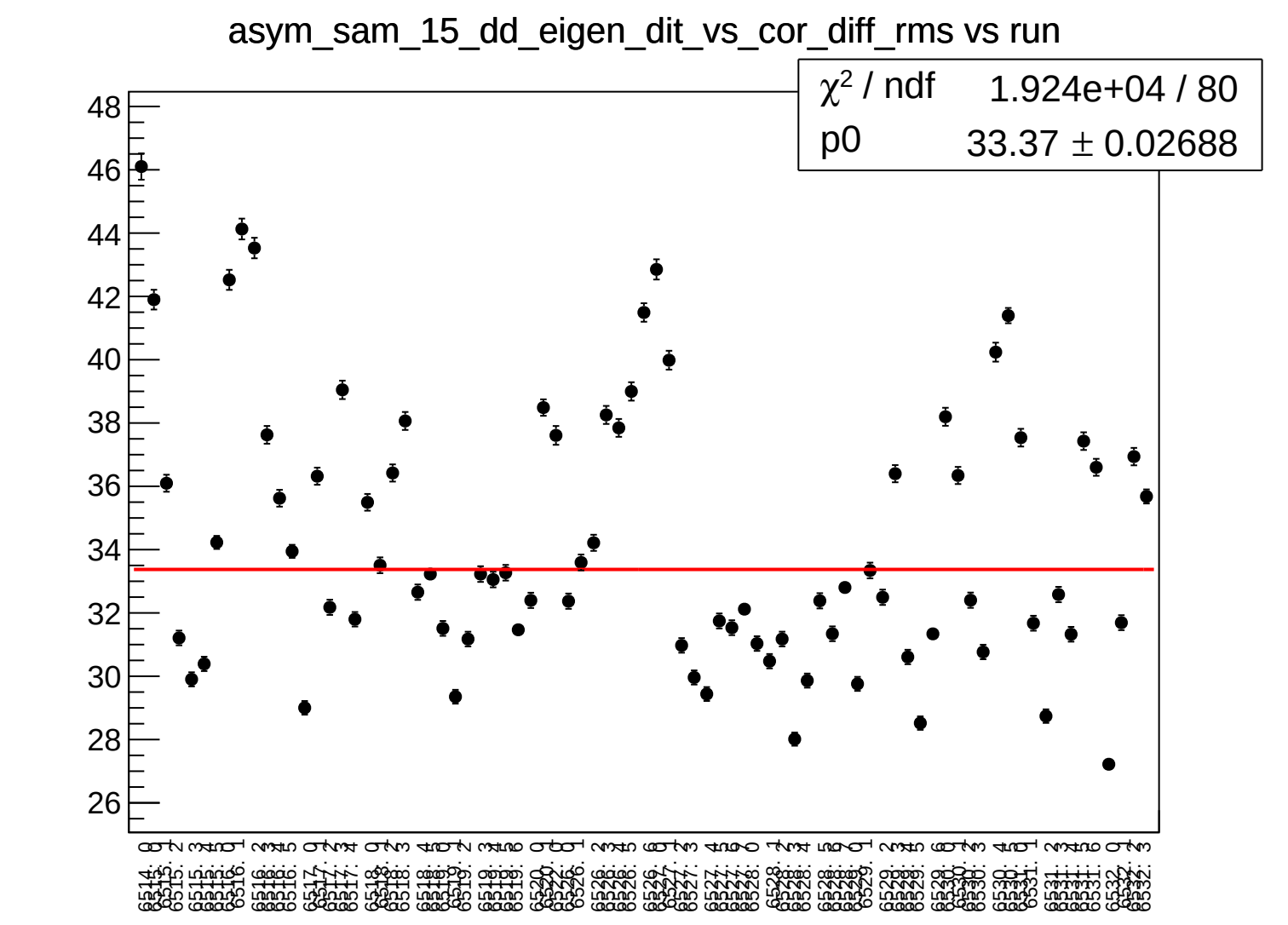

pull1D
Entries 81
Mean −0.01542
Std Dev 1.036

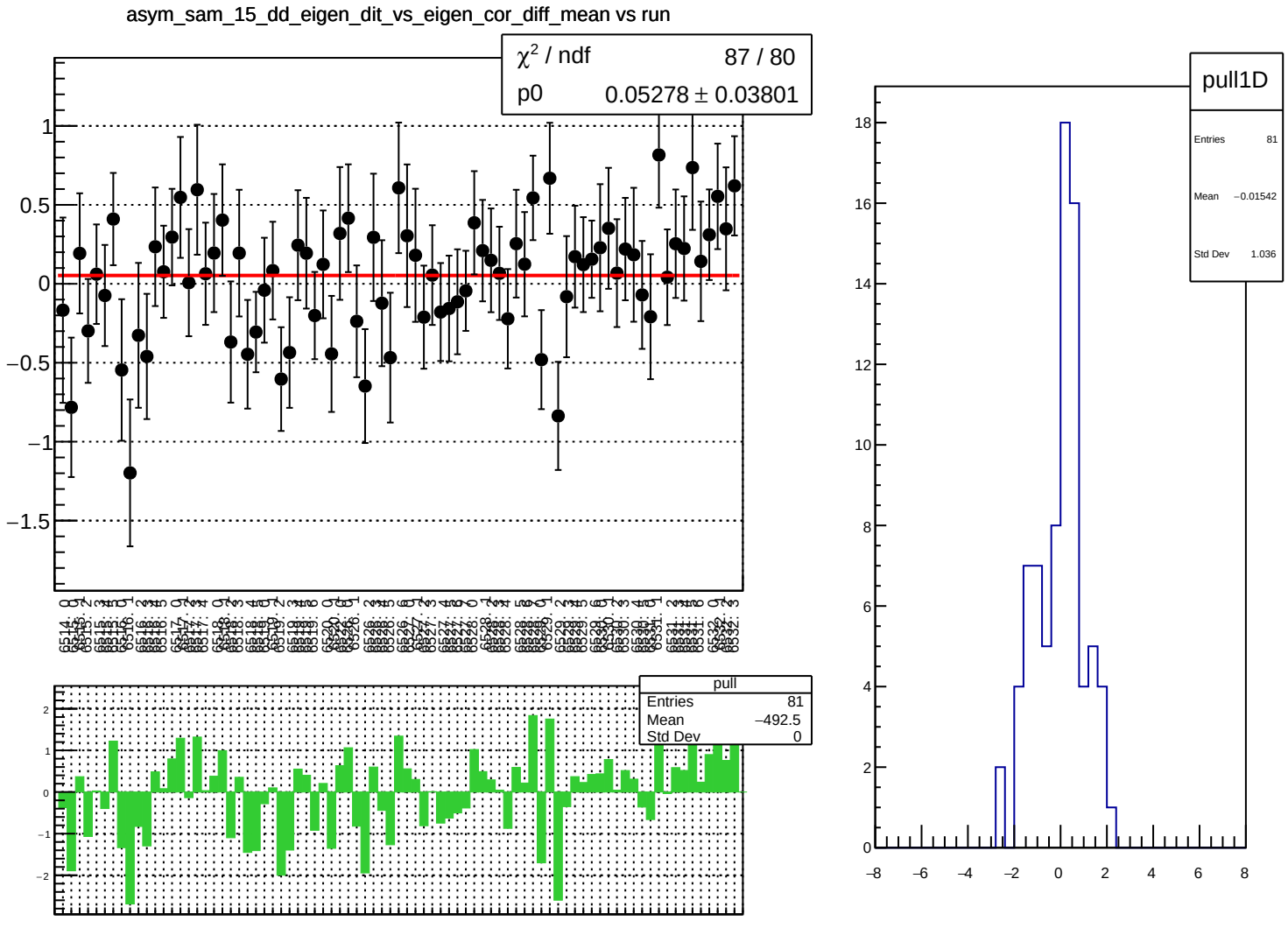

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.925e+04 / 80
p0 33.37 ± 0.02688
48
46
44
42
40
38
36
34
32
30
28
26

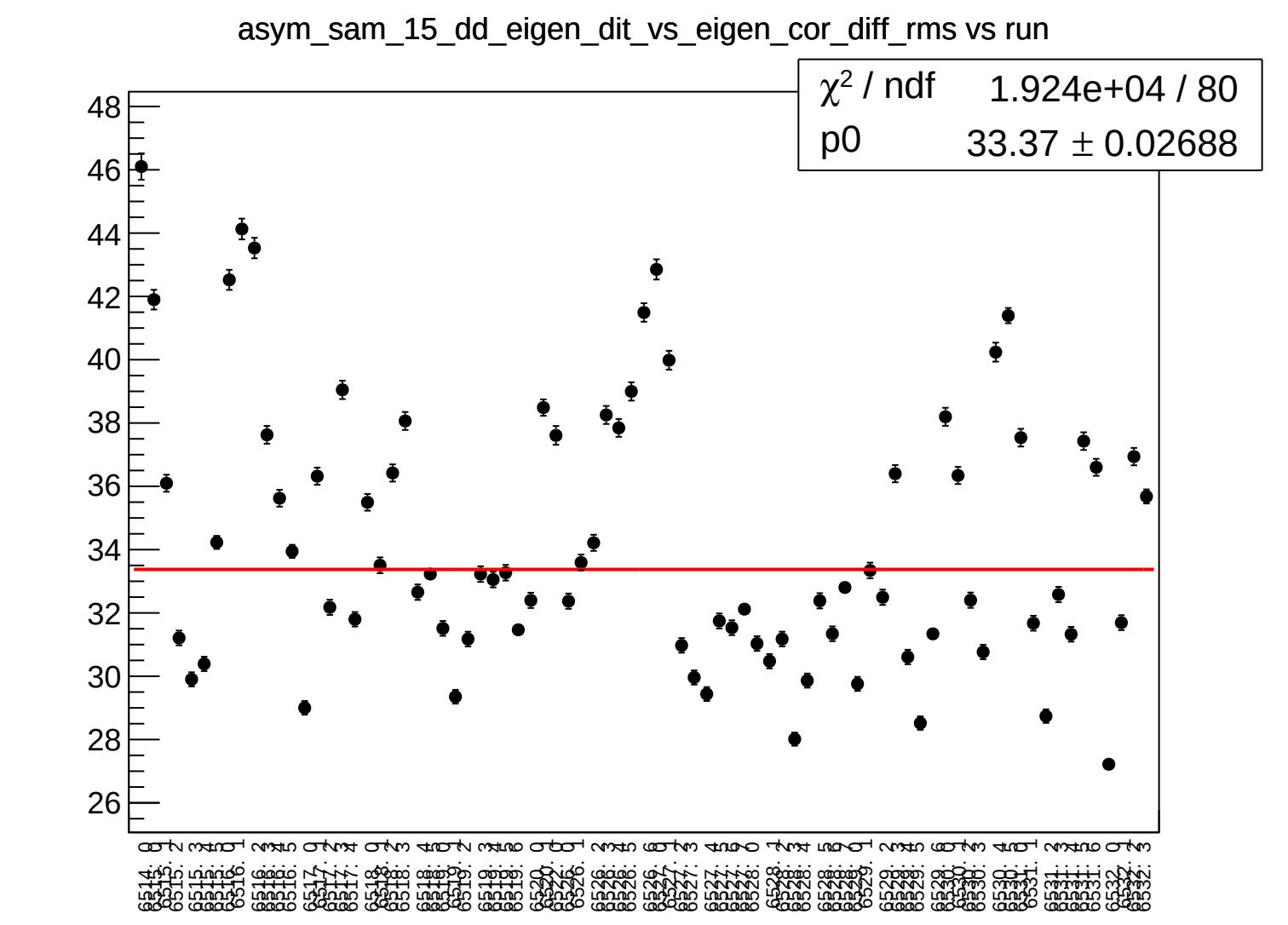

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 62.47 / 80
p0 2.481e−06 ± 2.574e−06
pull
Entries 81
Mean −1.892
Std Dev 81.81
pull1D
Entries 81
Mean −0.001718
Std Dev 0.8782

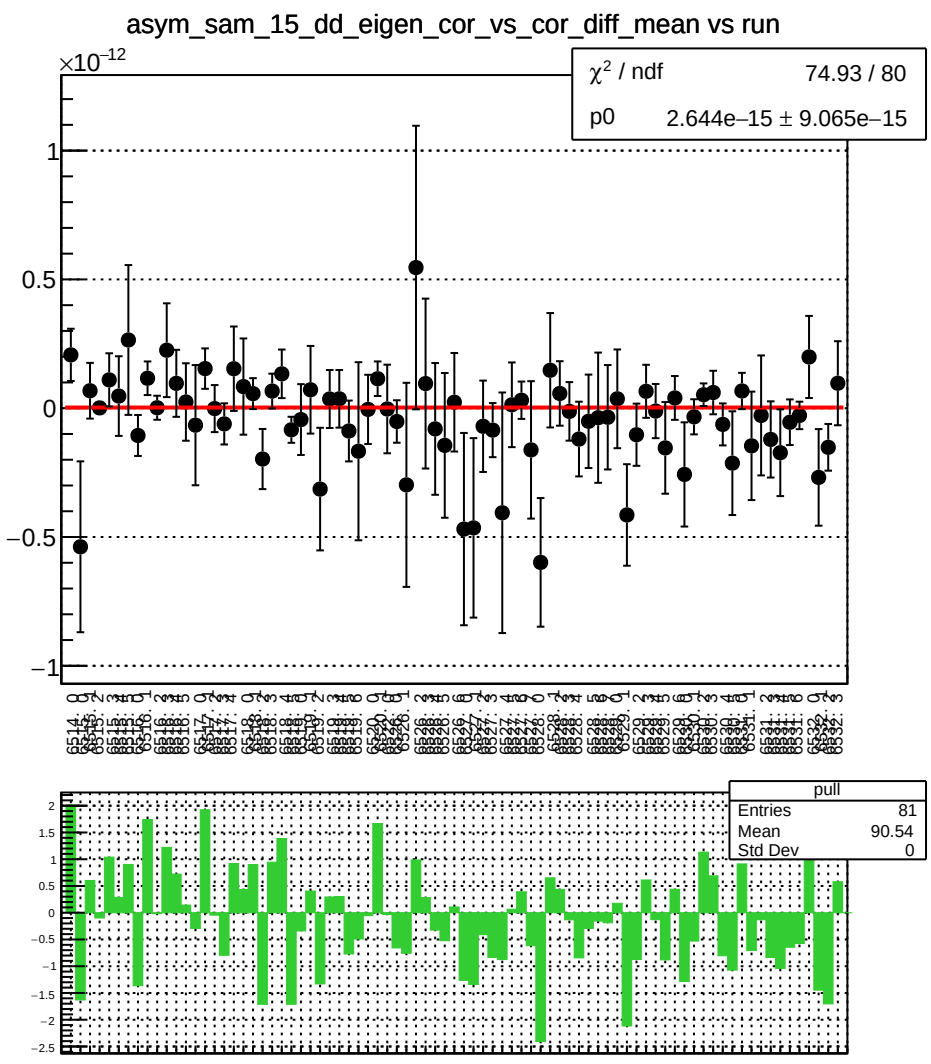

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6629 / 80
p0 0.00227 ± 1.82e−06
0.0028
0.0026
0.0024
0.0022
0.002

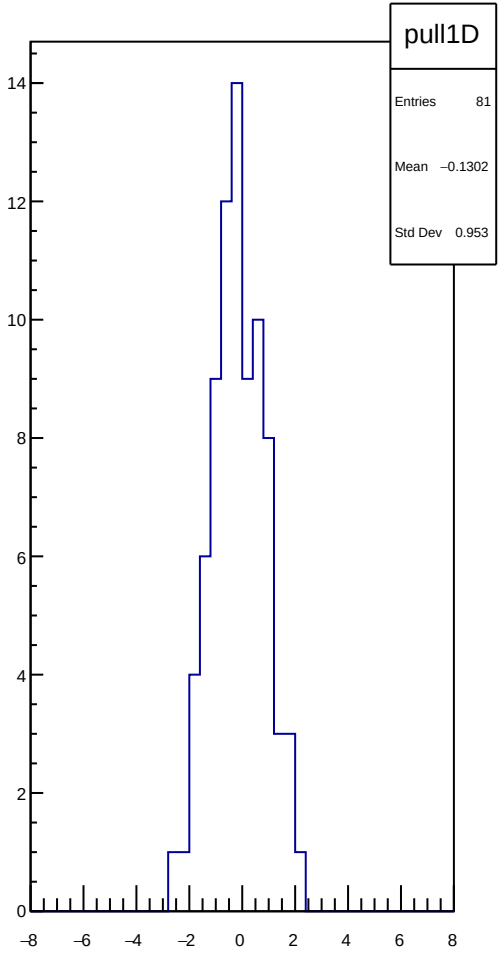

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87 / 80
p0 0.05278 ± 0.03801
pull
Entries 81
Mean −492.5
Std Dev 0
pull1D
Entries 81
Mean −0.01542
Std Dev 1.036

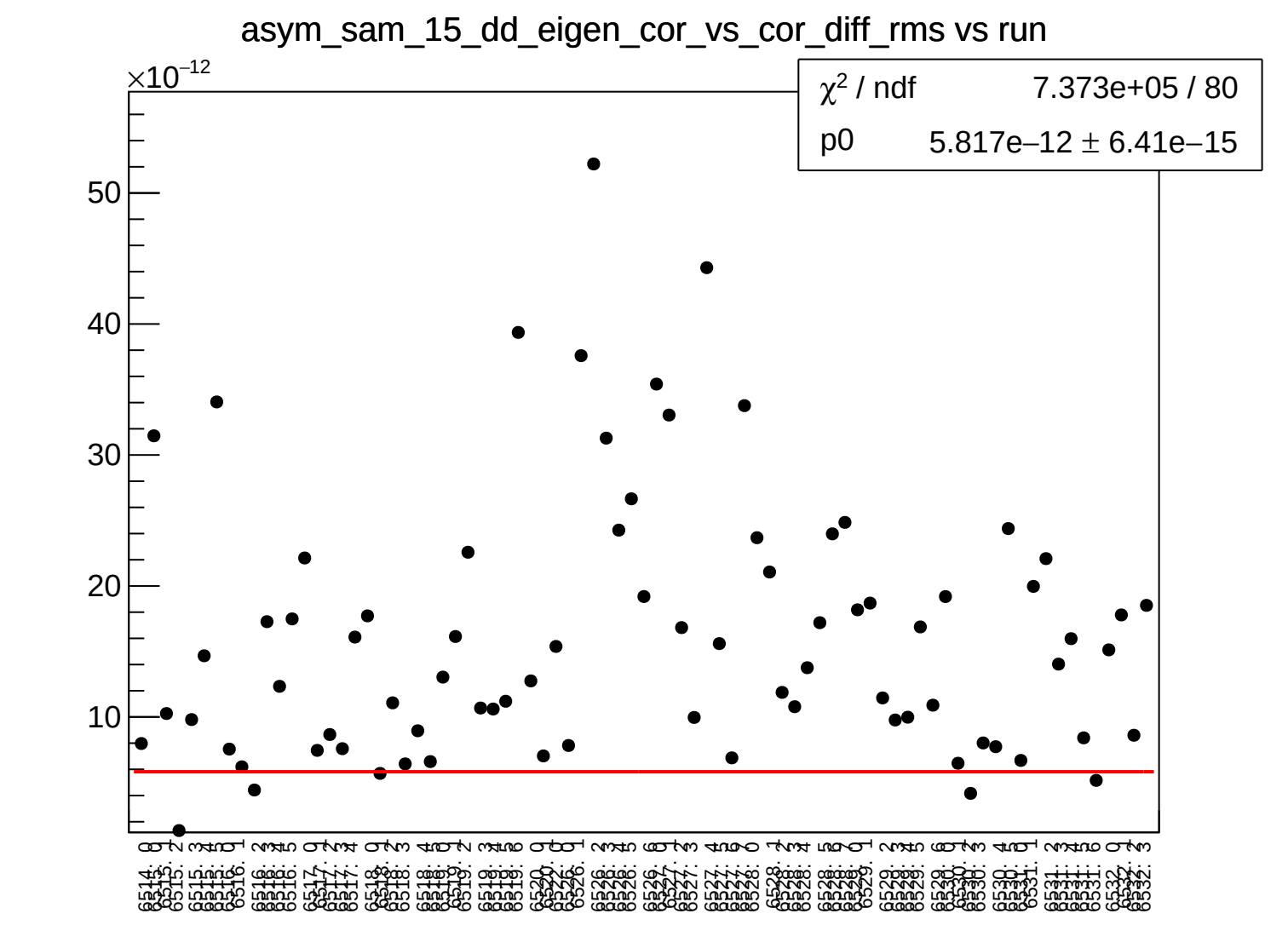

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.924e+04 / 80
p0 33.37 ± 0.02688
48
46
44
42
40
38
36
34
32
30
28
26

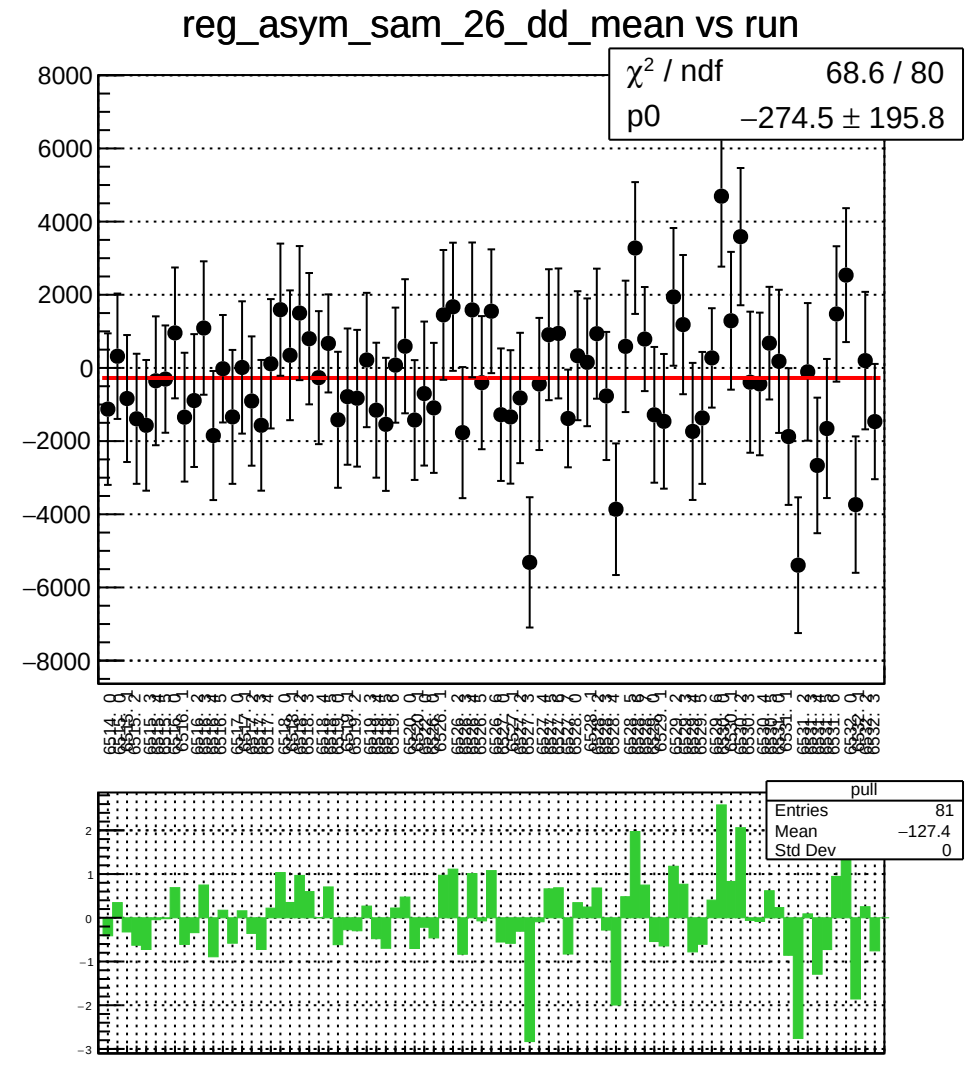

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87 / 80
p0 0.05278 ± 0.03801
pull
Entries 81
Mean −492.5
Std Dev 0
pull1D
Entries 81
Mean −0.01542
Std Dev 1.036

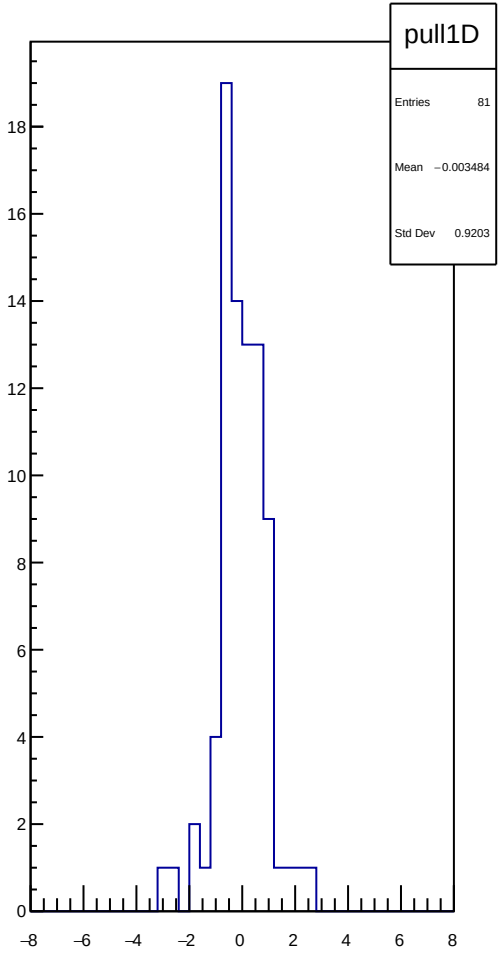

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.924e+04 / 80
p0 33.37 ± 0.02688
48
46
44
42
40
38
36
34
32
30
28
26

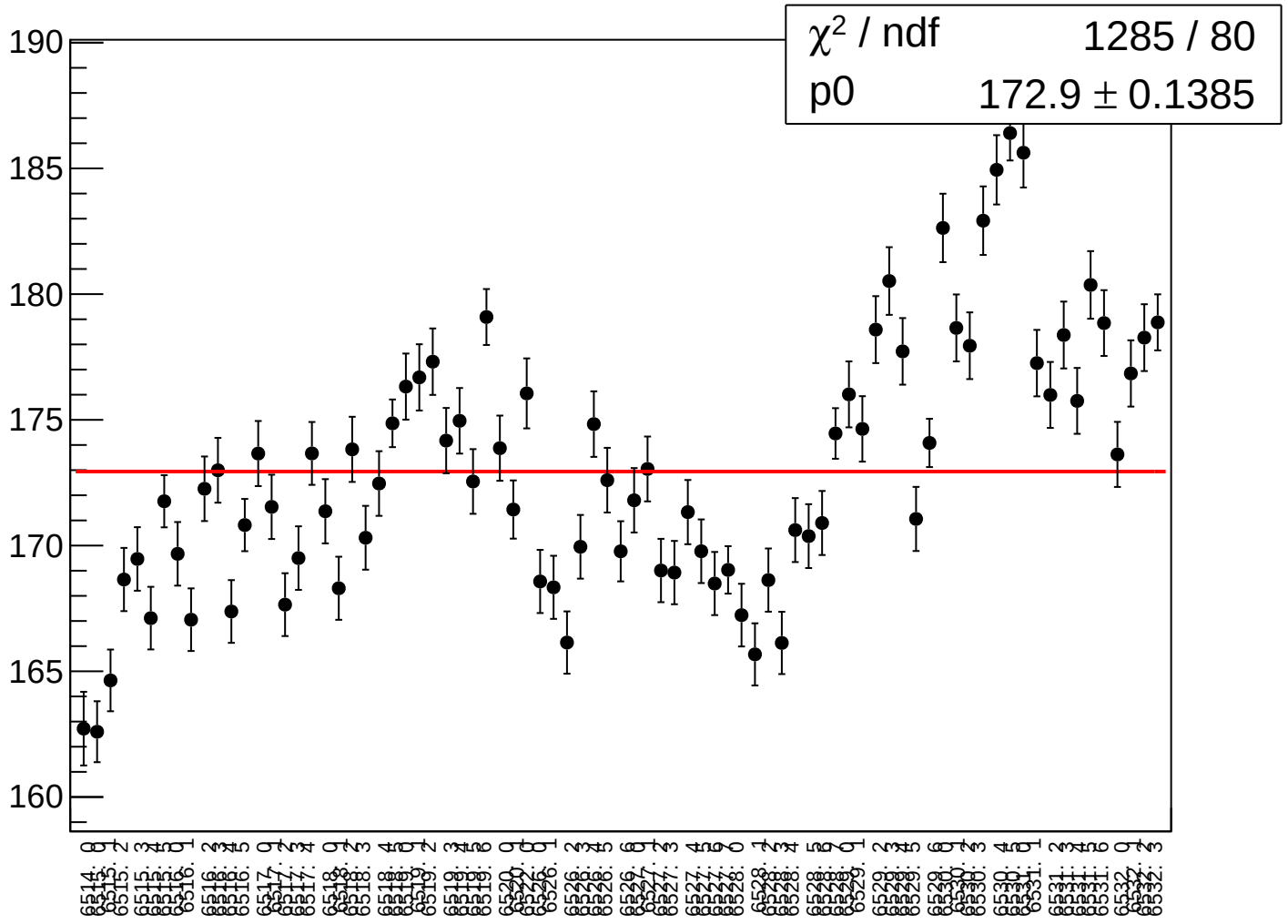

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.93 / 80
p0 2.644e−15 ± 9.065e−15
pull
Entries 81
Mean 90.54
Std Dev 0

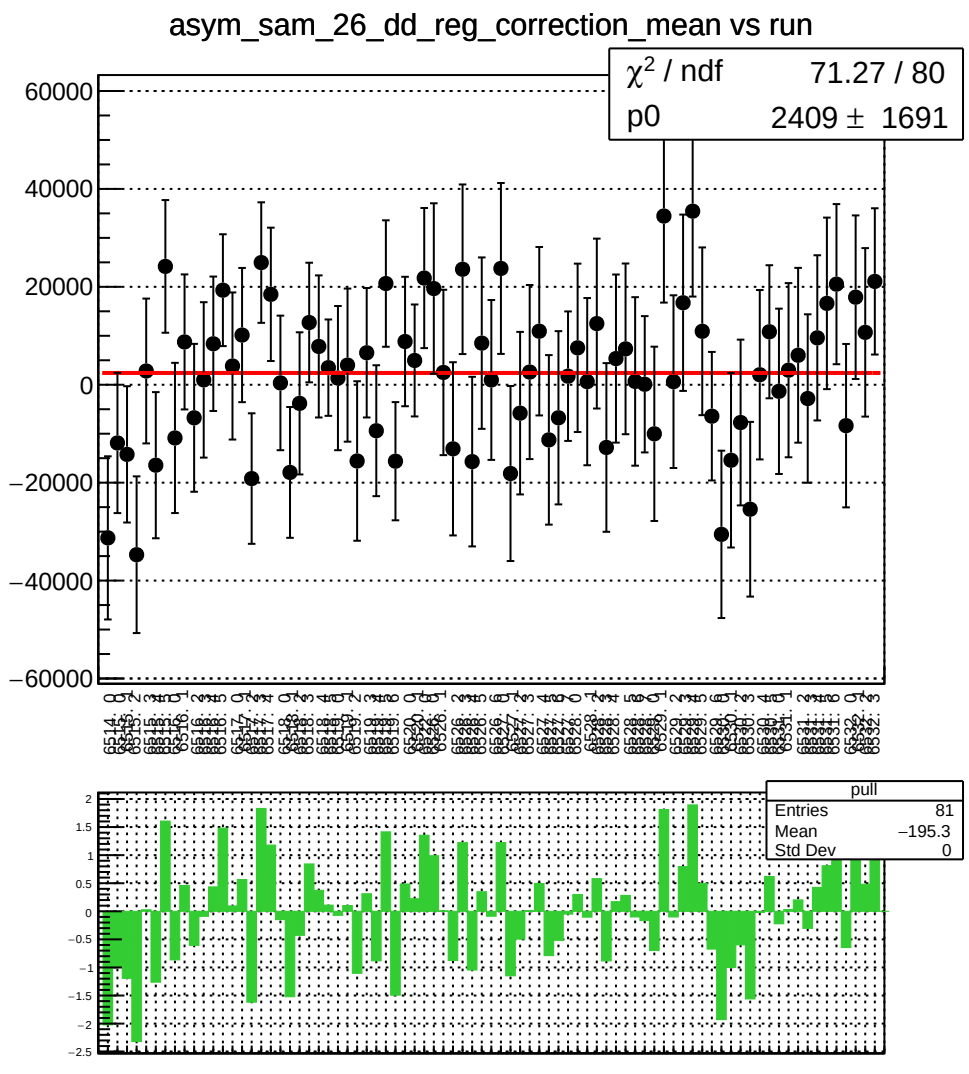

pull1D
Entries 81
Mean −0.1302
Std Dev 0.953

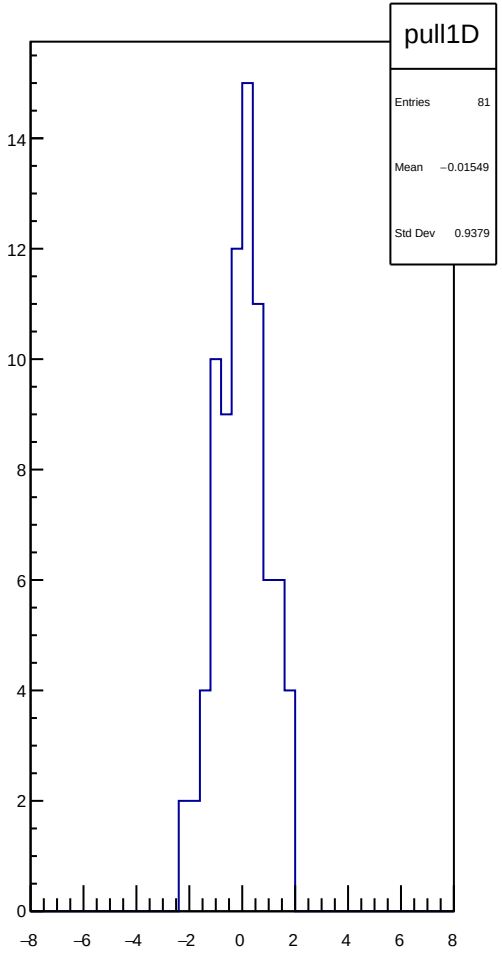

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.373e+05 / 80
p0 5.817e−12 ± 6.41e−15
50
40
30
20
10

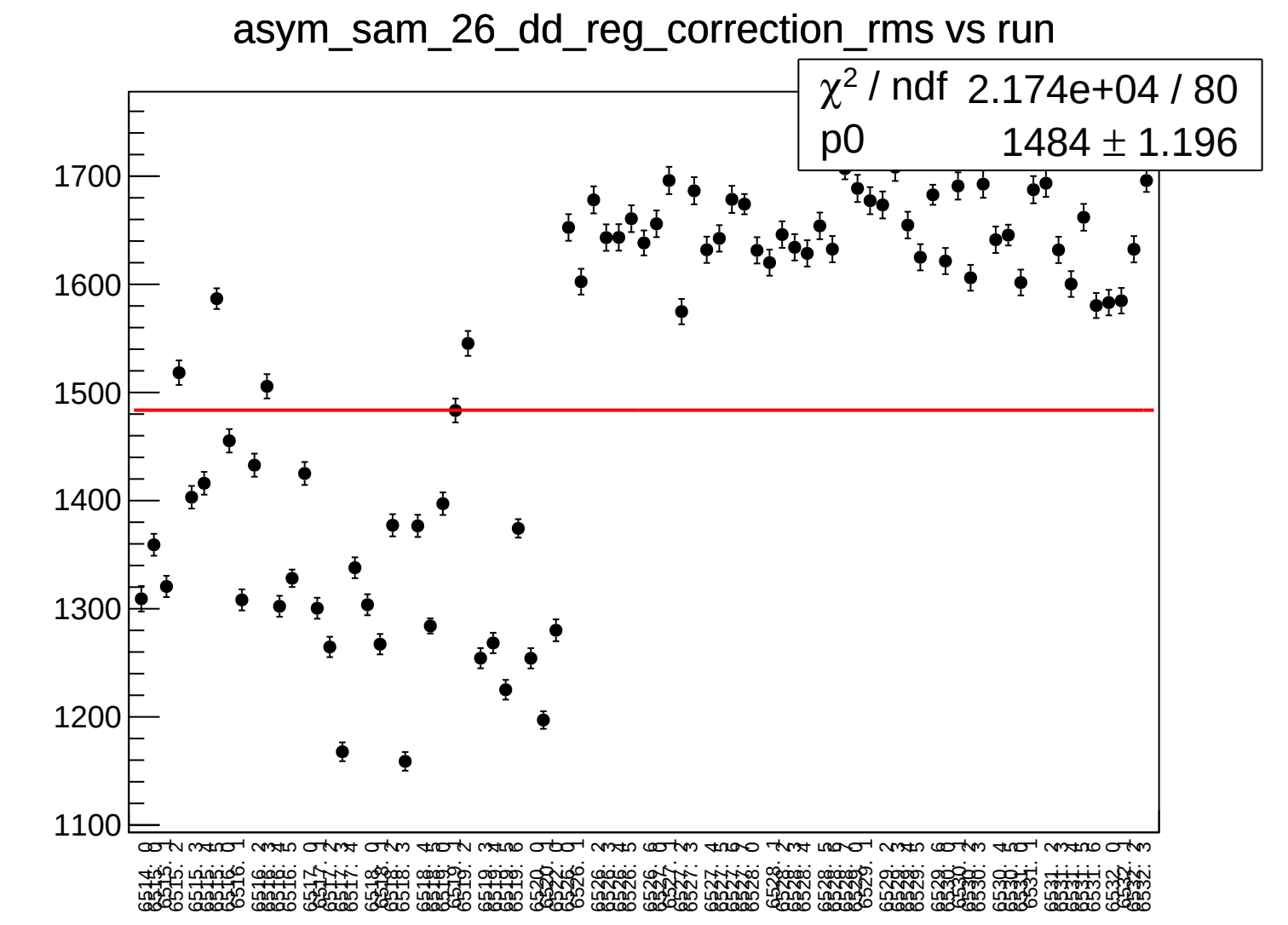

reg_asym_sam_26_dd_mean vs run
χ² / ndf 68.6 / 80
p0 −274.5 ± 195.8
pull
Entries 81
Mean −127.4
Std Dev 0

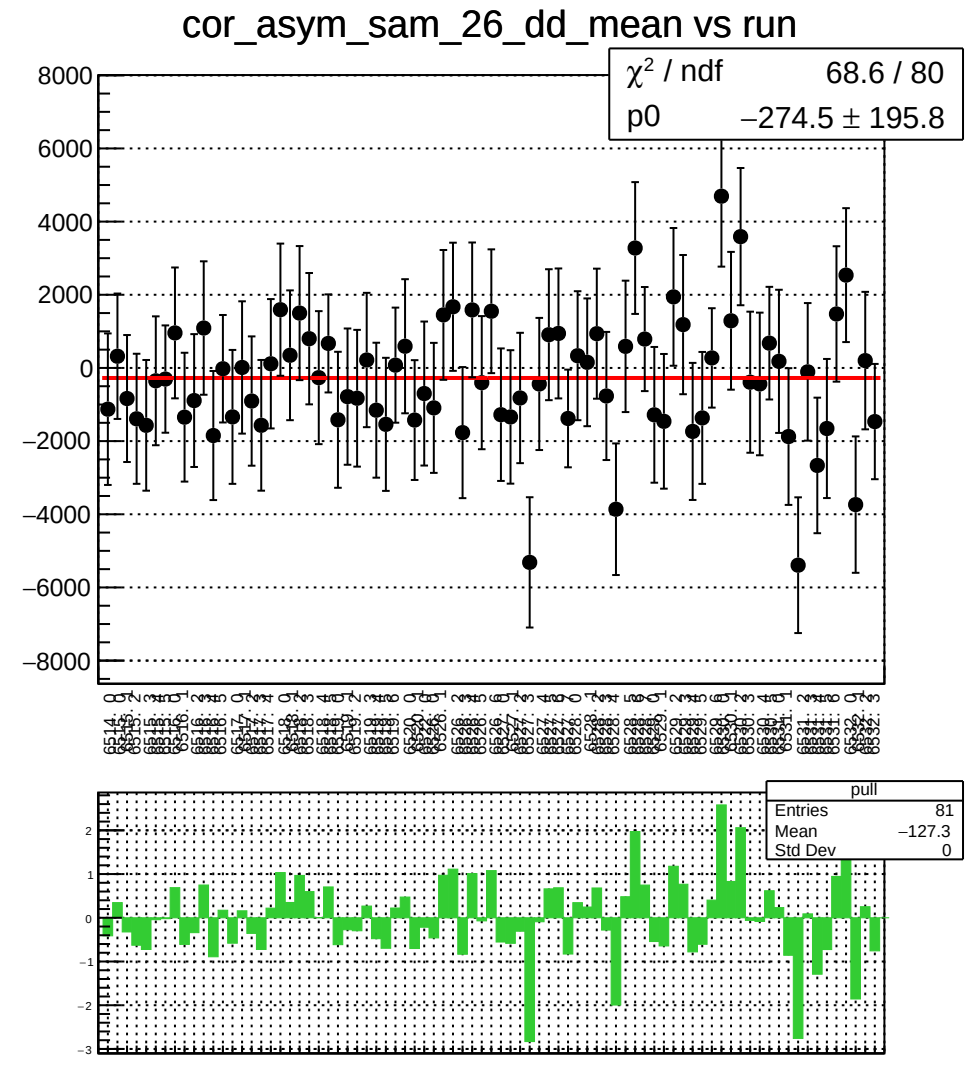

pull1D
Entries 81
Mean −0.003484
Std Dev 0.9203

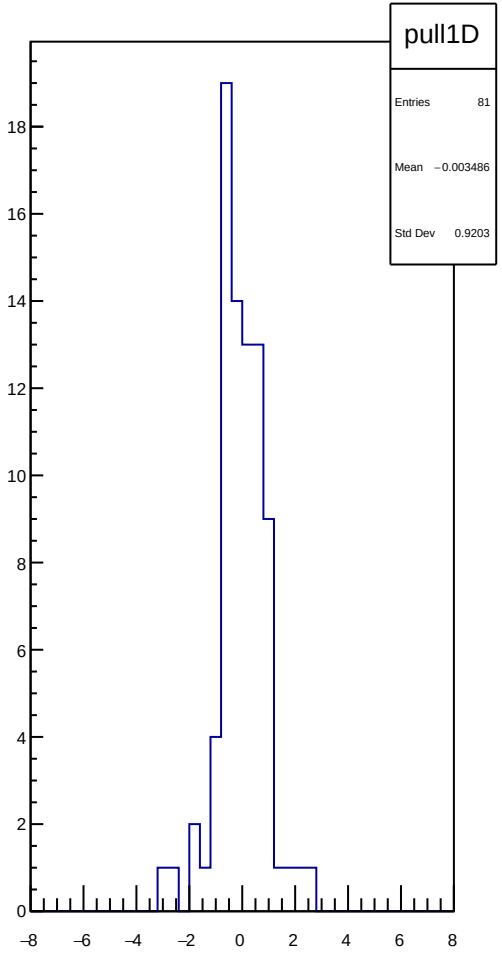

reg_asym_sam_26_dd_rms vs run
χ^2 / ndf 1285 / 80
p0 172.9 ± 0.1385
190
185
180
175
170
165
160

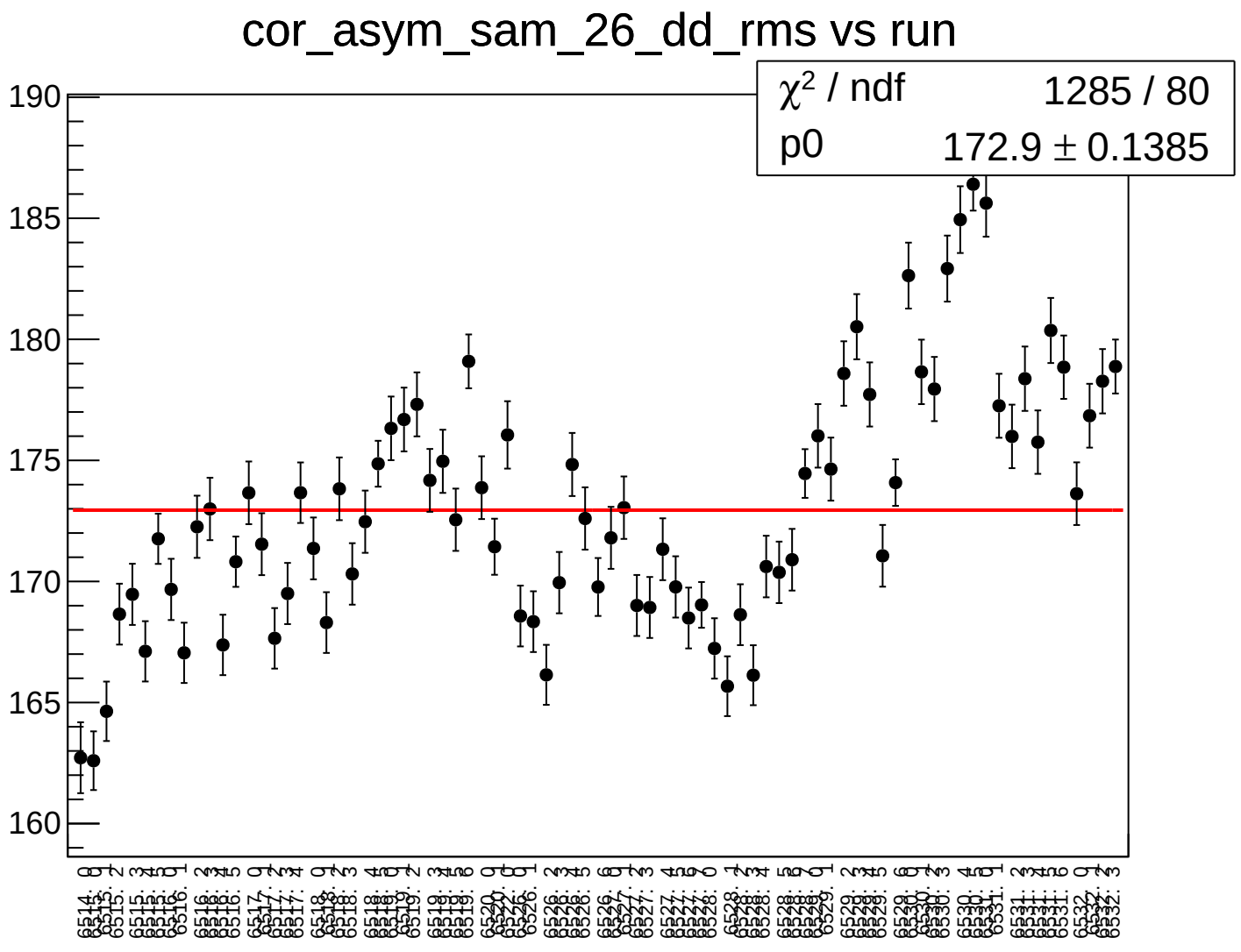

asym_sam_26_dd_reg_correction_mean vs run
χ² / ndf 71.27 / 80
p0 2409 ± 1691
pull
Entries 81
Mean −195.3
Std Dev 0

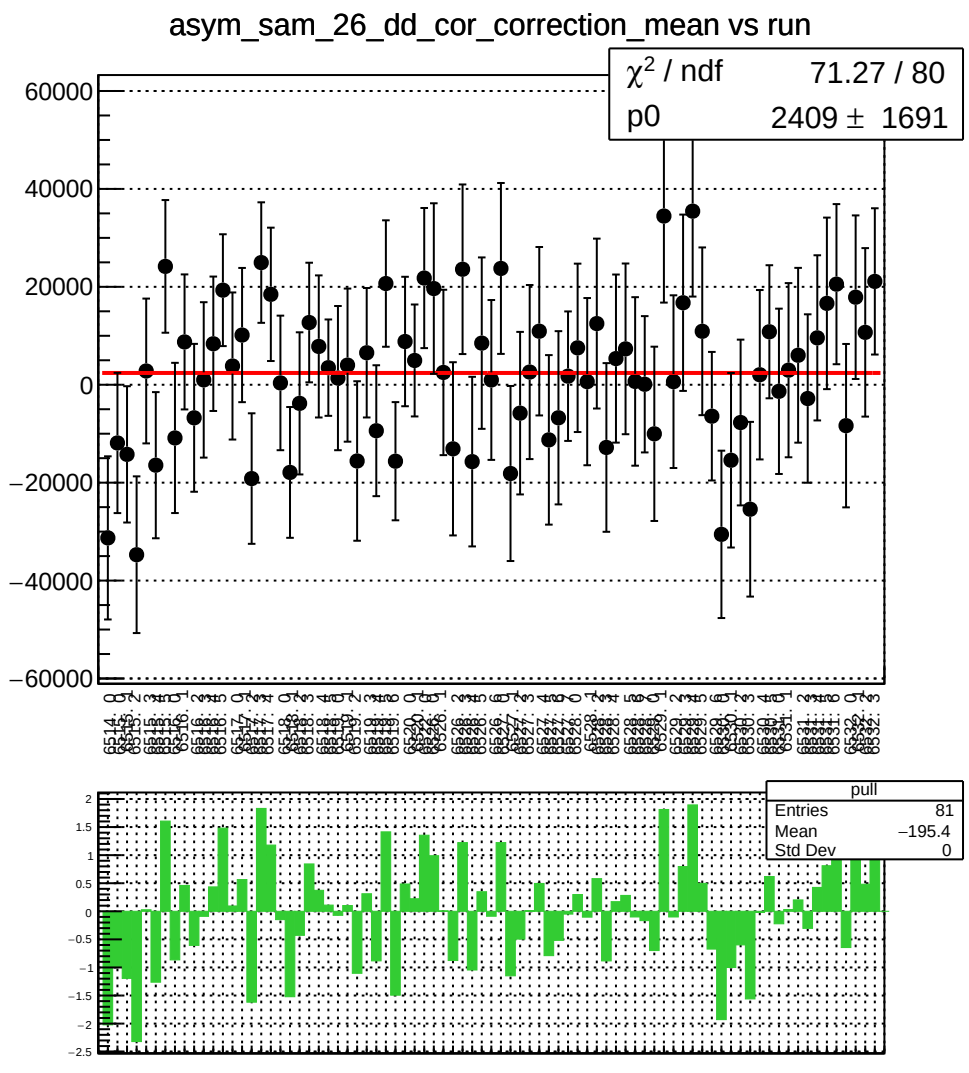

pull1D
Entries 81
Mean −0.01549
Std Dev 0.9379

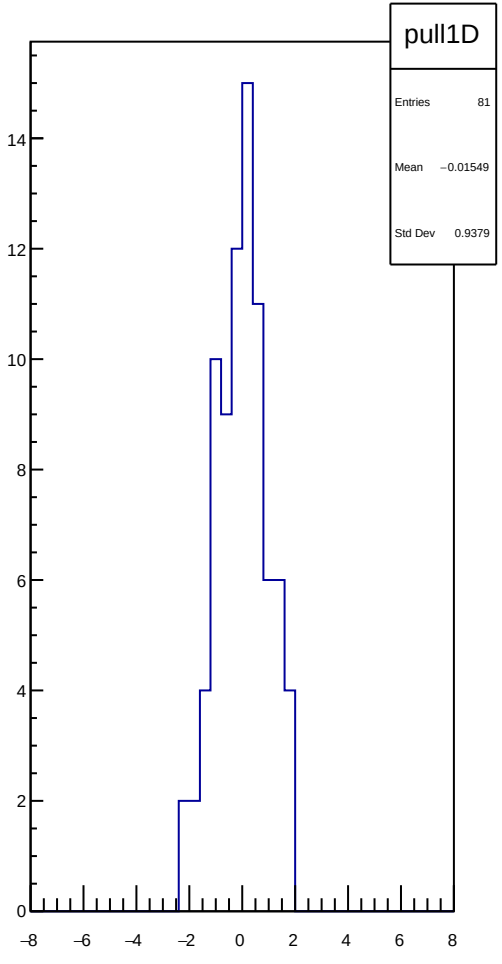

asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 2.174e+04 / 80
p0 1484 ± 1.196
1700
1600
1500
1400
1300
1200
1100

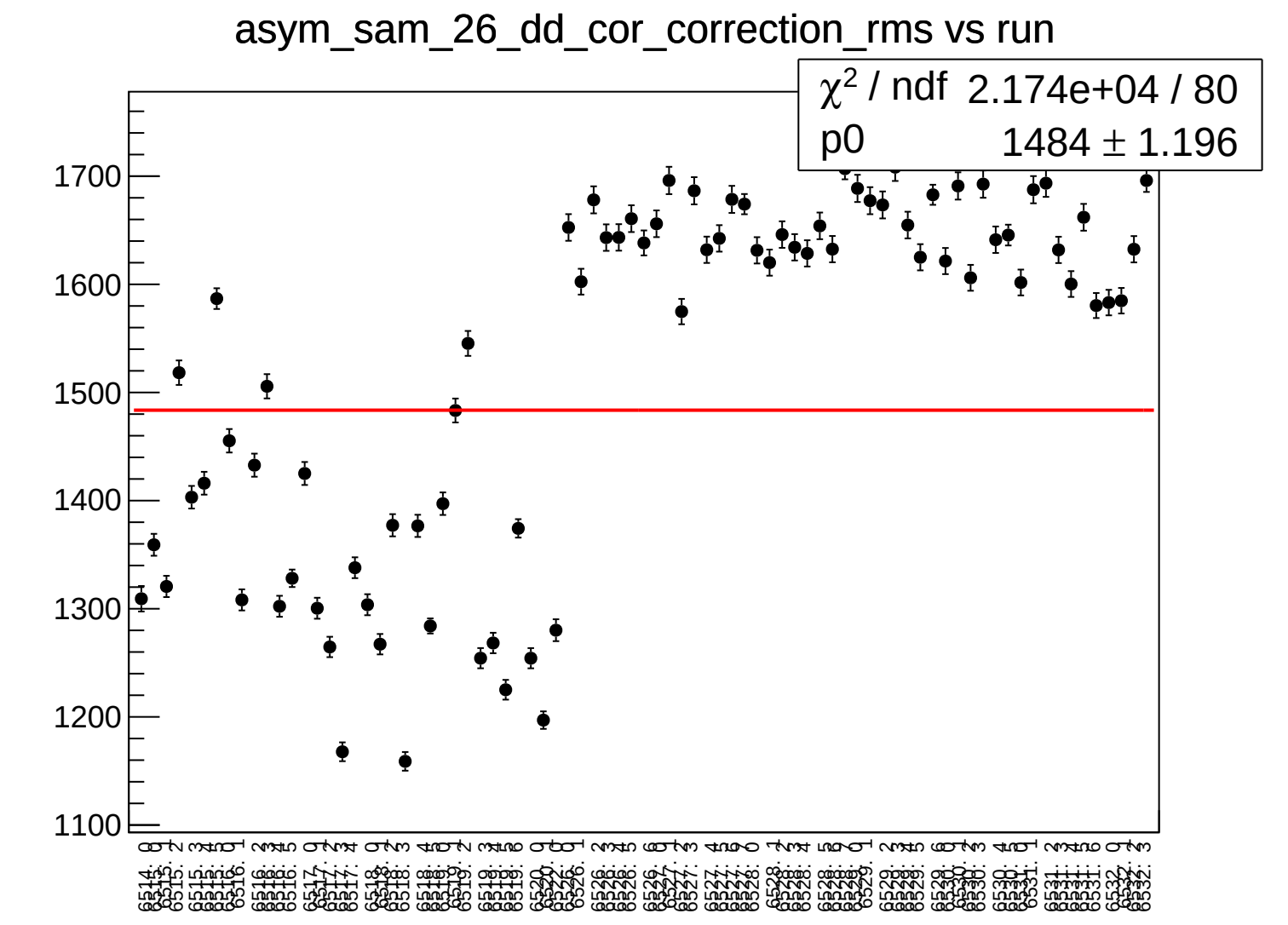

cor_asym_sam_26_dd_mean vs run
χ² / ndf 68.6 / 80
p0 −274.5 ± 195.8
pull
Entries 81
Mean −127.3
Std Dev 0

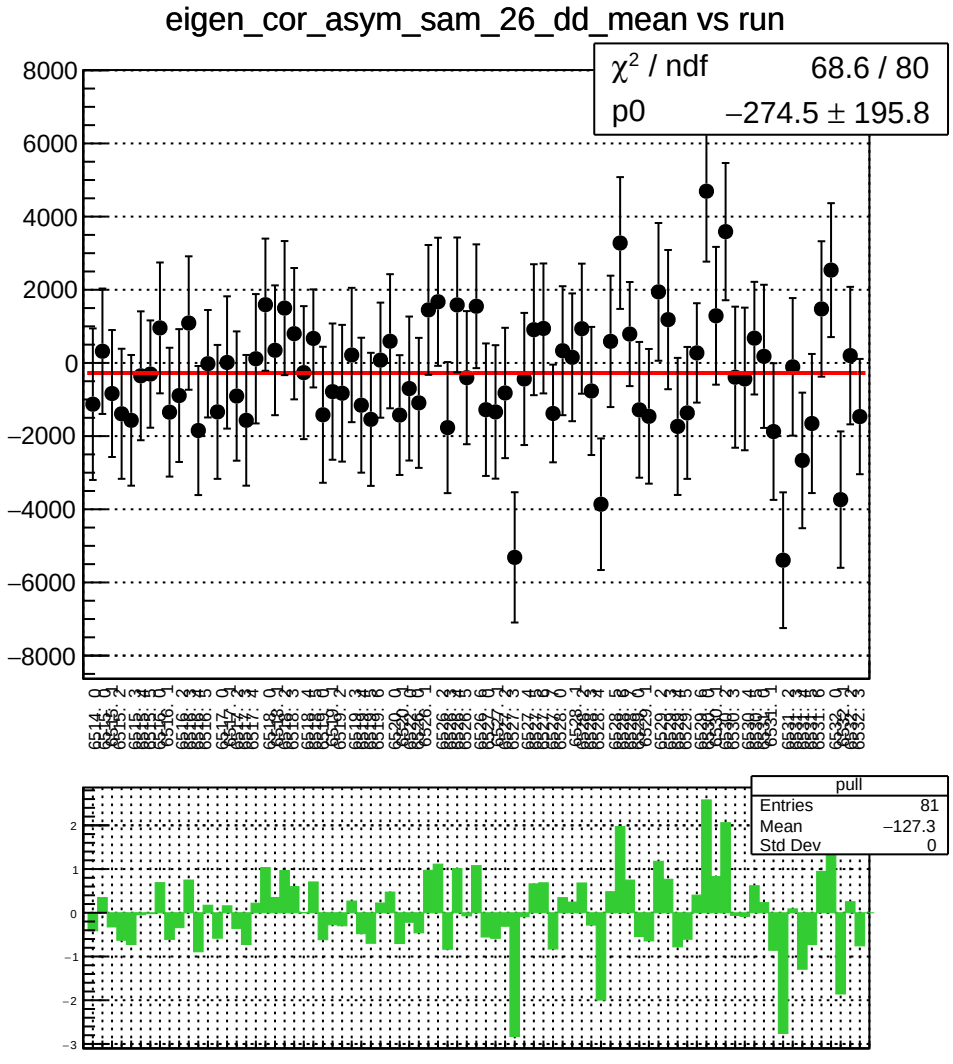

pull1D
Entries 81
Mean −0.003486
Std Dev 0.9203

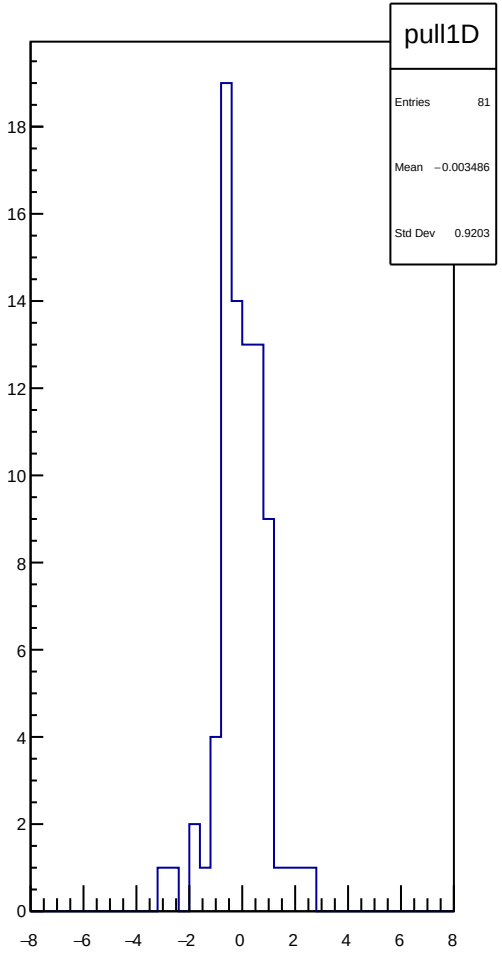

cor_asym_sam_26_dd_rms vs run
χ² / ndf 1285 / 80
p0 172.9 ± 0.1385
190
185
180
175
170
165
160

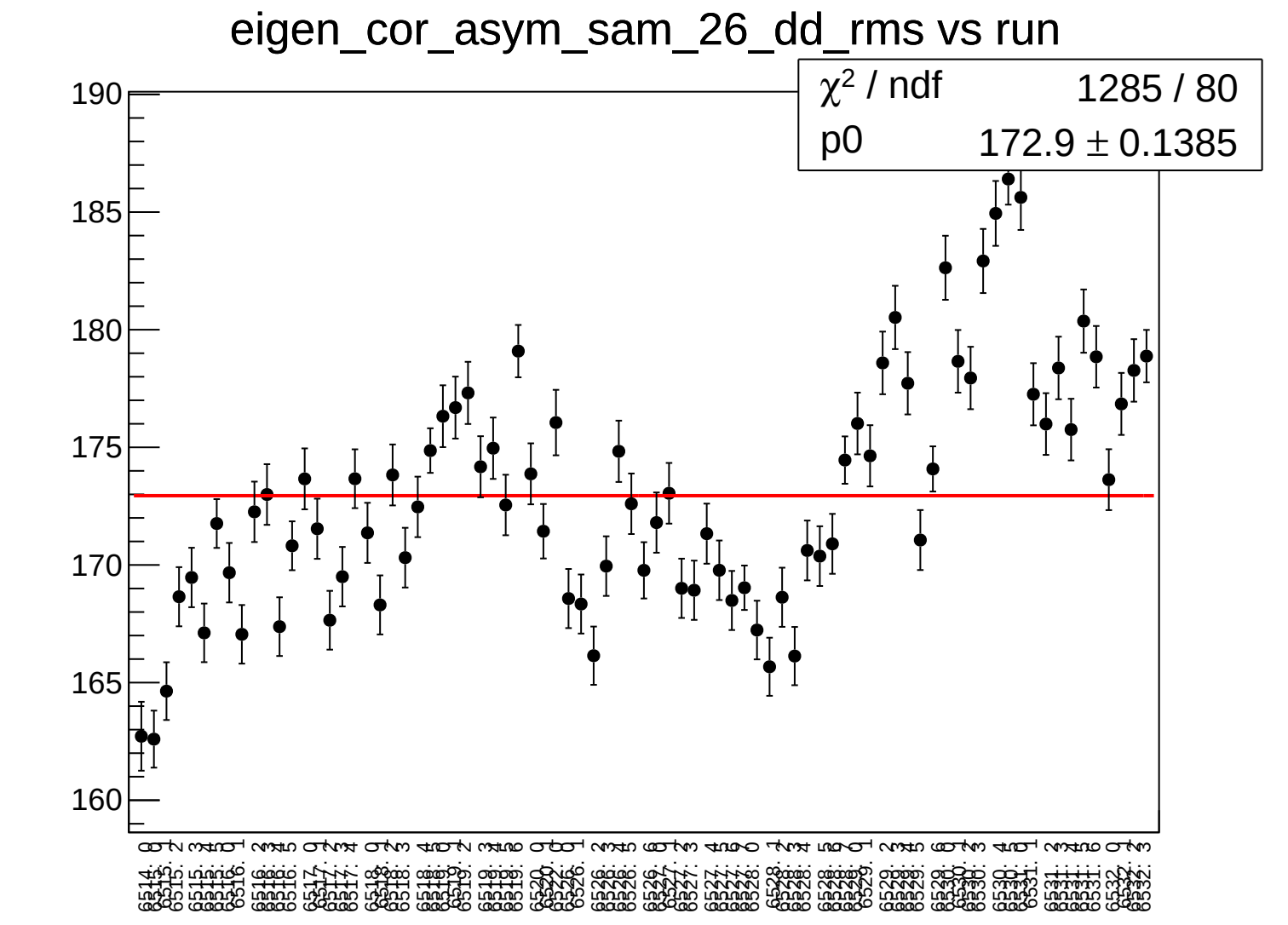

asym_sam_26_dd_cor_correction_mean vs run
χ² / ndf 71.27 / 80
p0 2409 ± 1691
pull
Entries 81
Mean −195.4
Std Dev 0

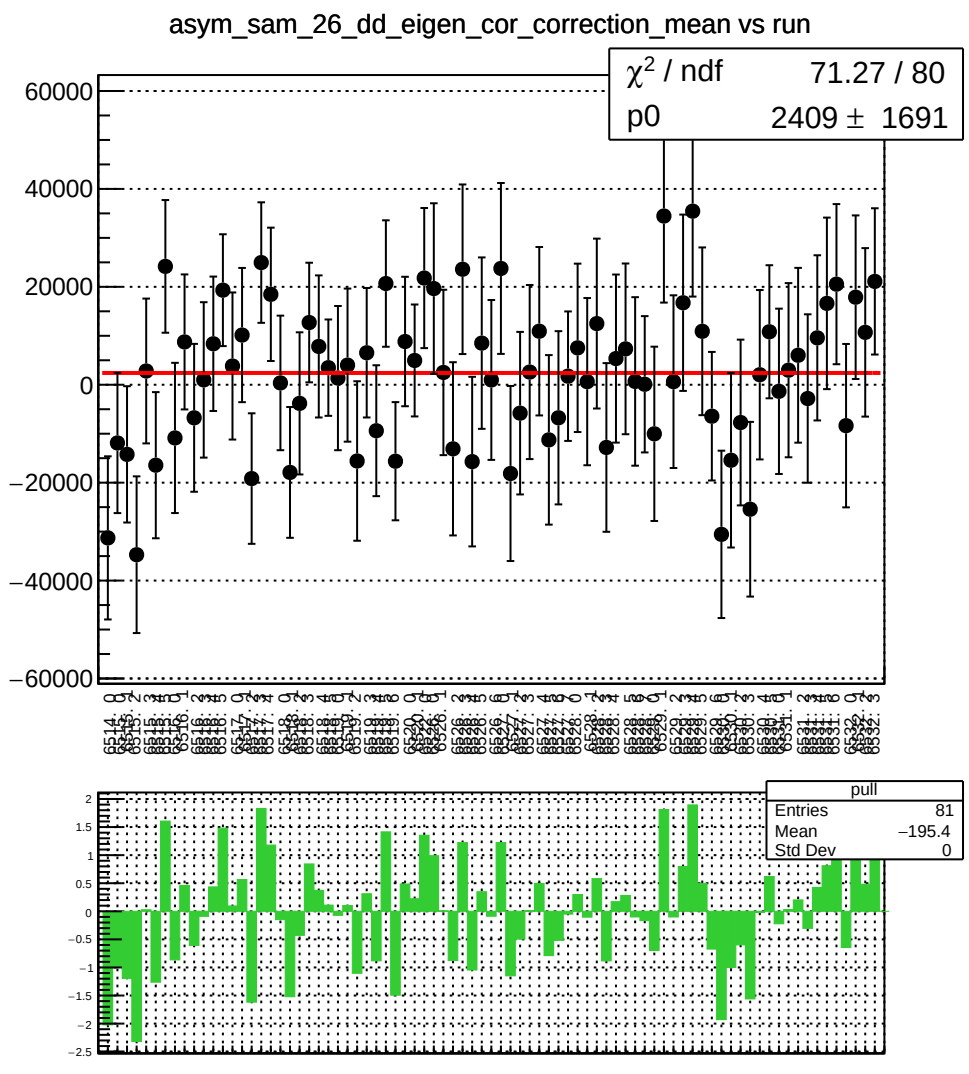

pull1D
Entries 81
Mean −0.01549
Std Dev 0.9379

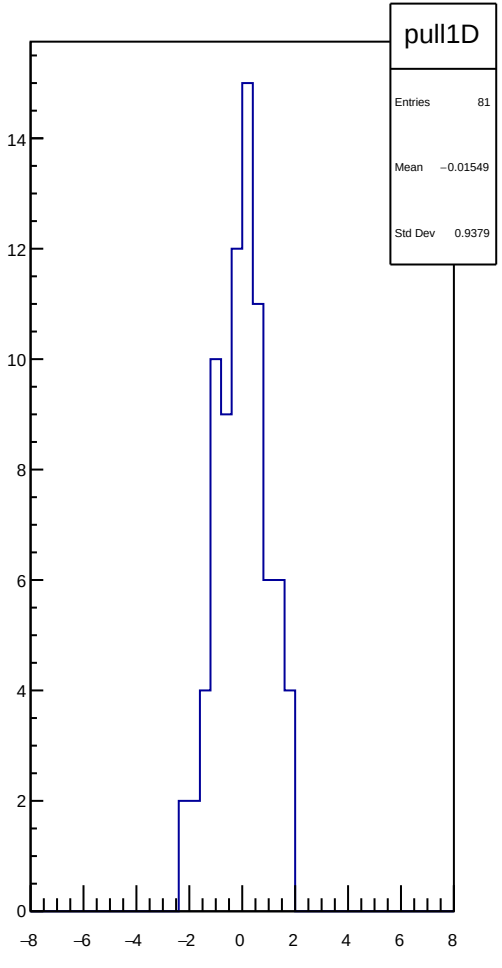

asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 2.174e+04 / 80
p0 1484 ± 1.196
1700
1600
1500
1400
1300
1200
1100

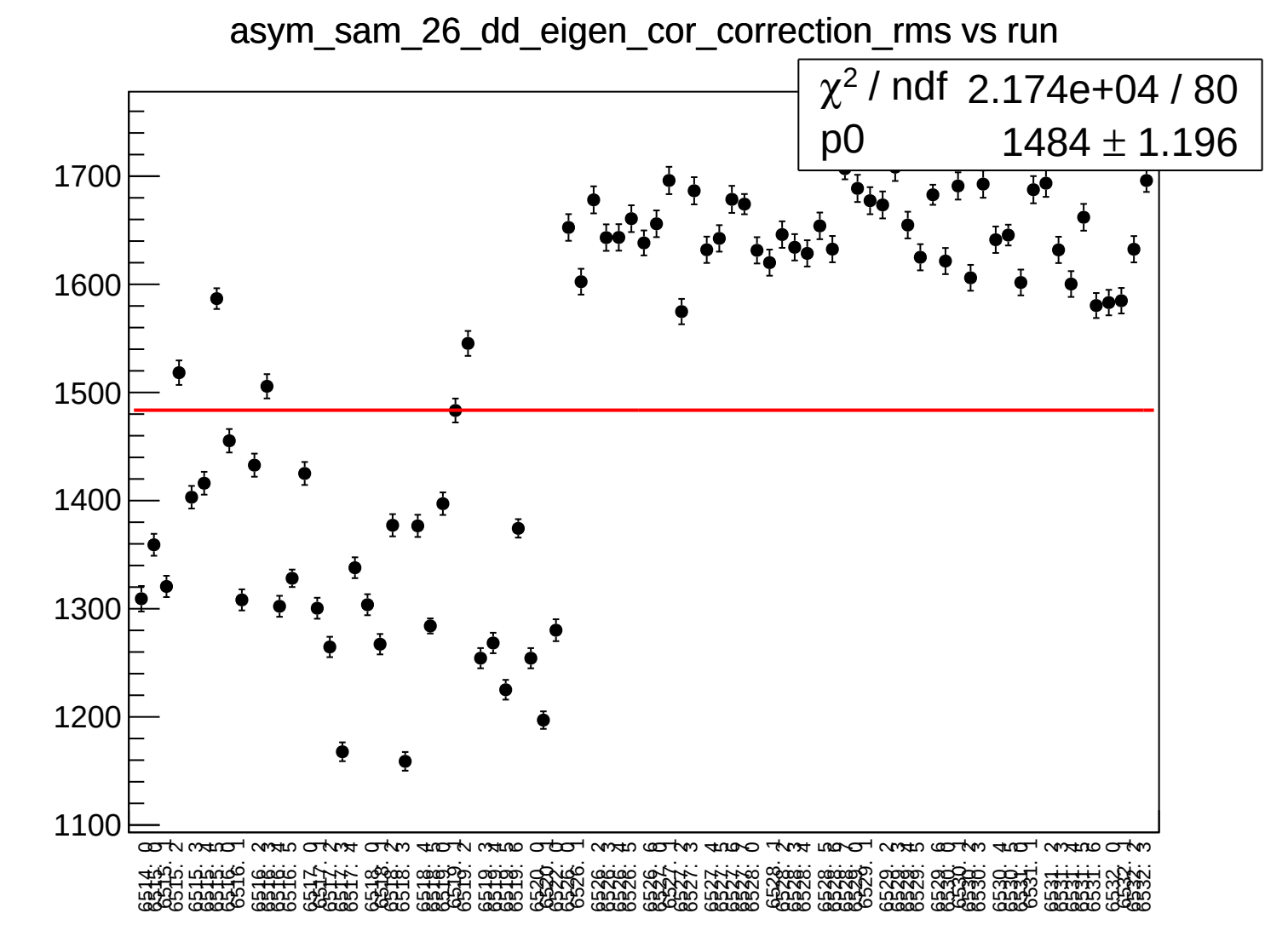

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 68.6 / 80
p0 −274.5 ± 195.8
pull
Entries 81
Mean −127.3
Std Dev 0

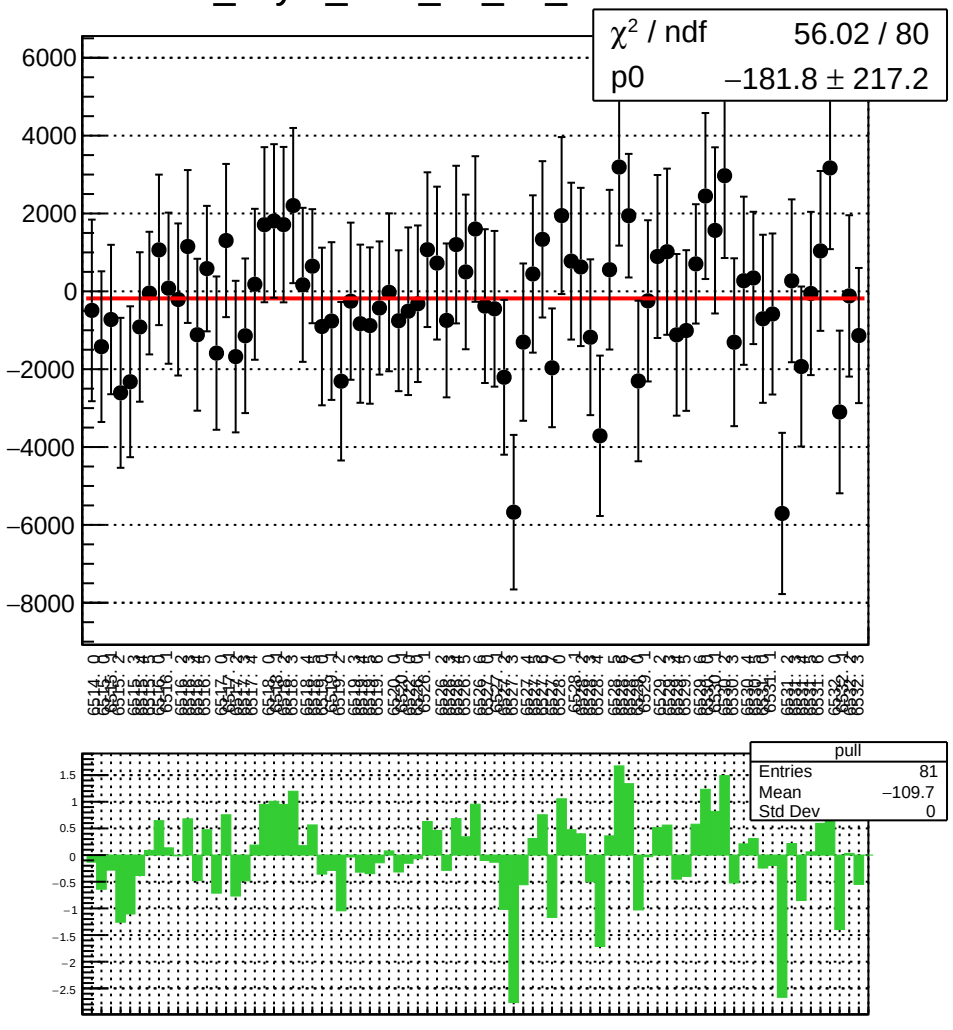

pull1D
Entries 81
Mean −0.003486
Std Dev 0.9203

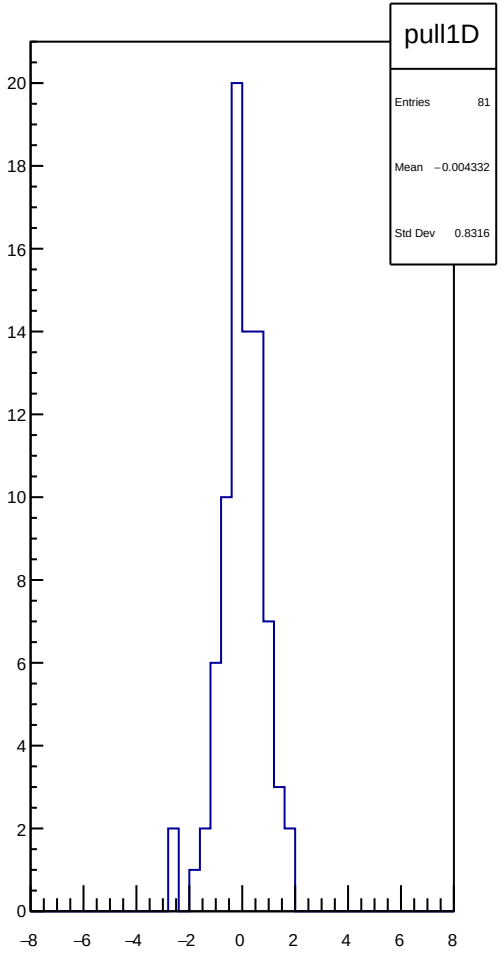

eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 1285 / 80
p0 172.9 ± 0.1385
190
185
180
175
170
165
160

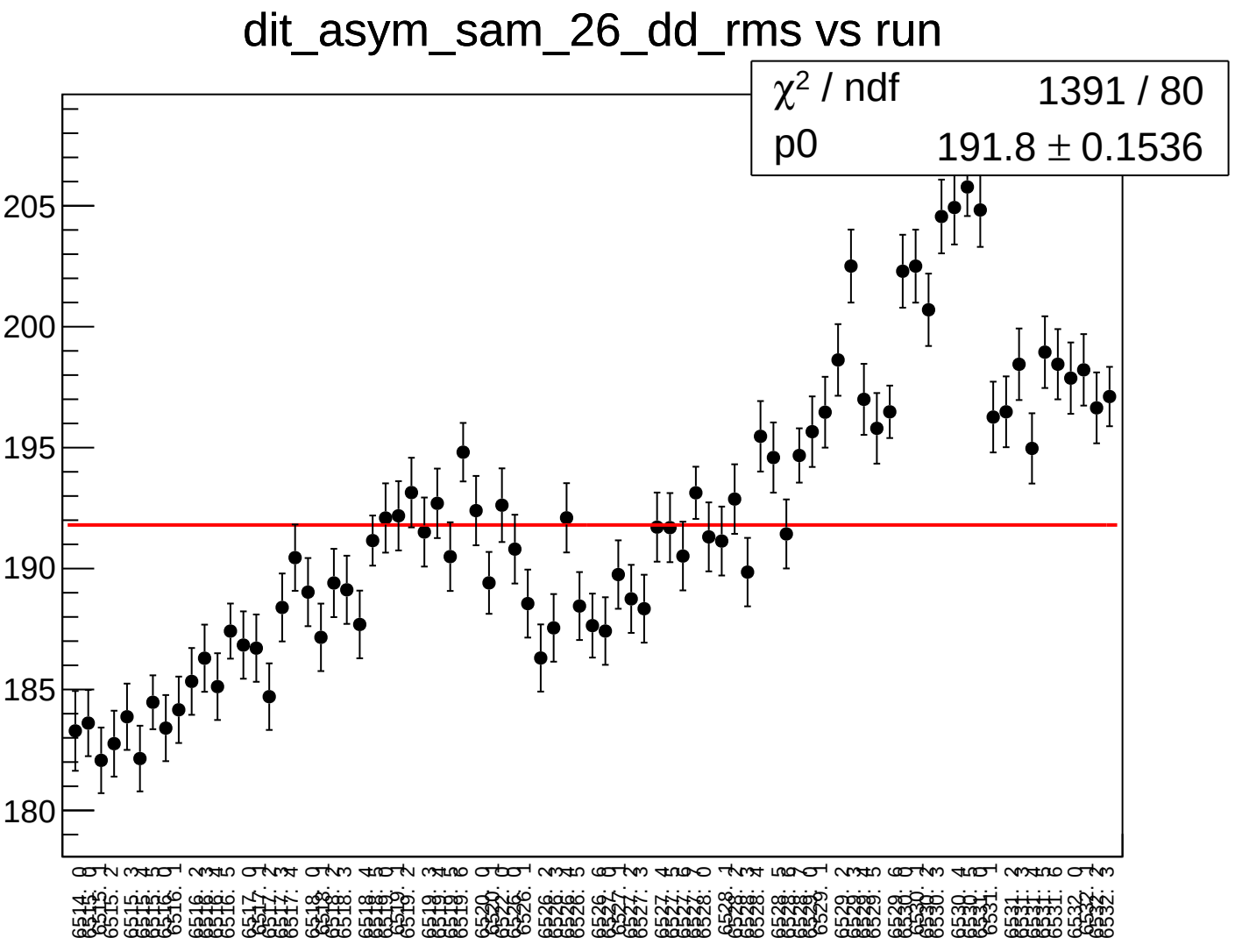

asym_sam_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 71.27 / 80
p0 2409 ± 1691
pull
Entries 81
Mean −195.4
Std Dev 0

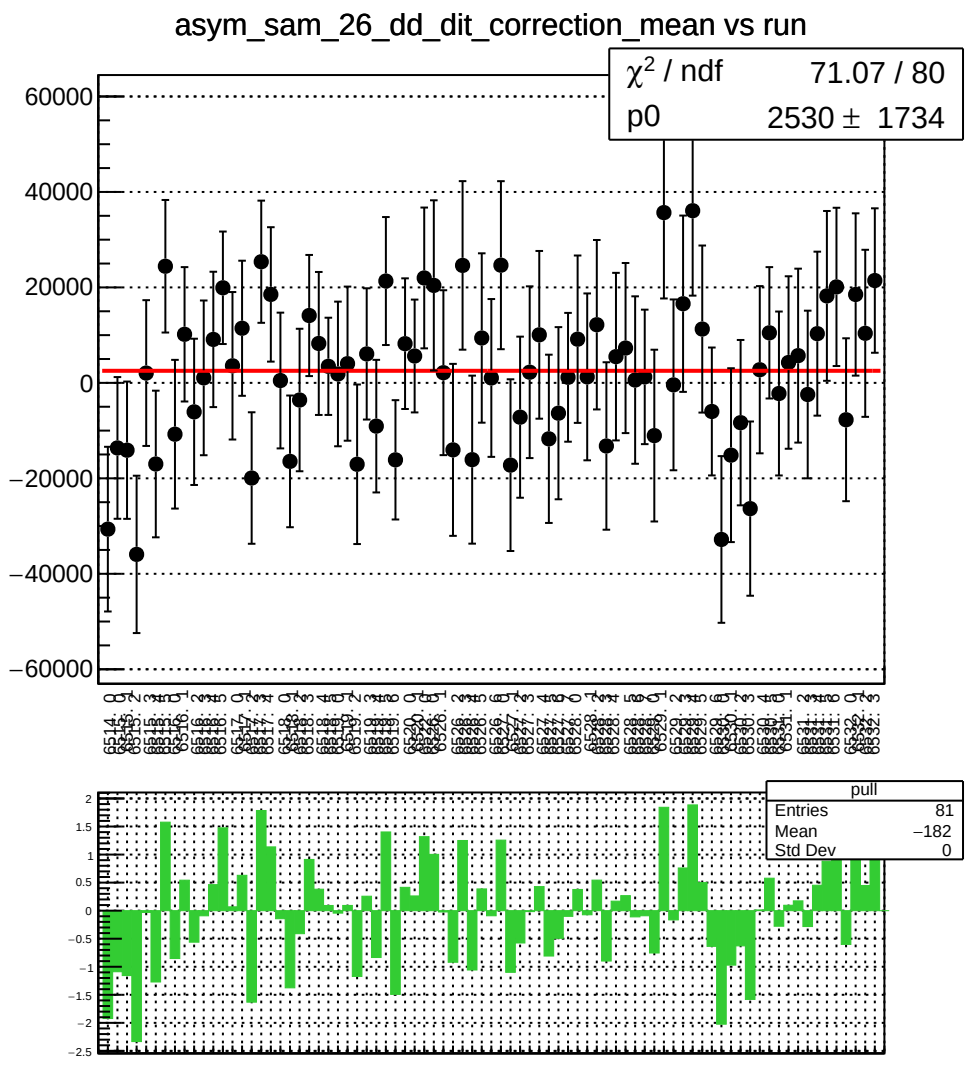

pull1D
Entries 81
Mean −0.01549
Std Dev 0.9379

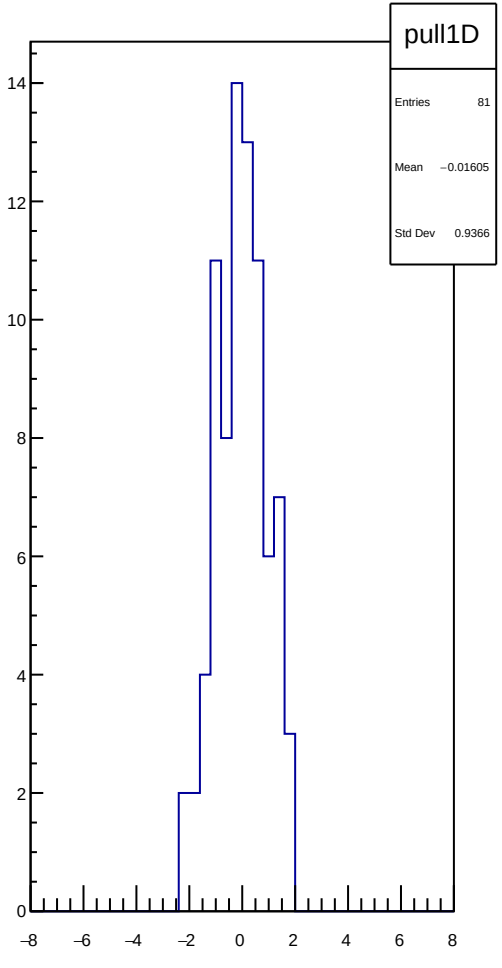

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.174e+04 / 80
p0 1484 ± 1.196
1700
1600
1500
1400
1300
1200
1100

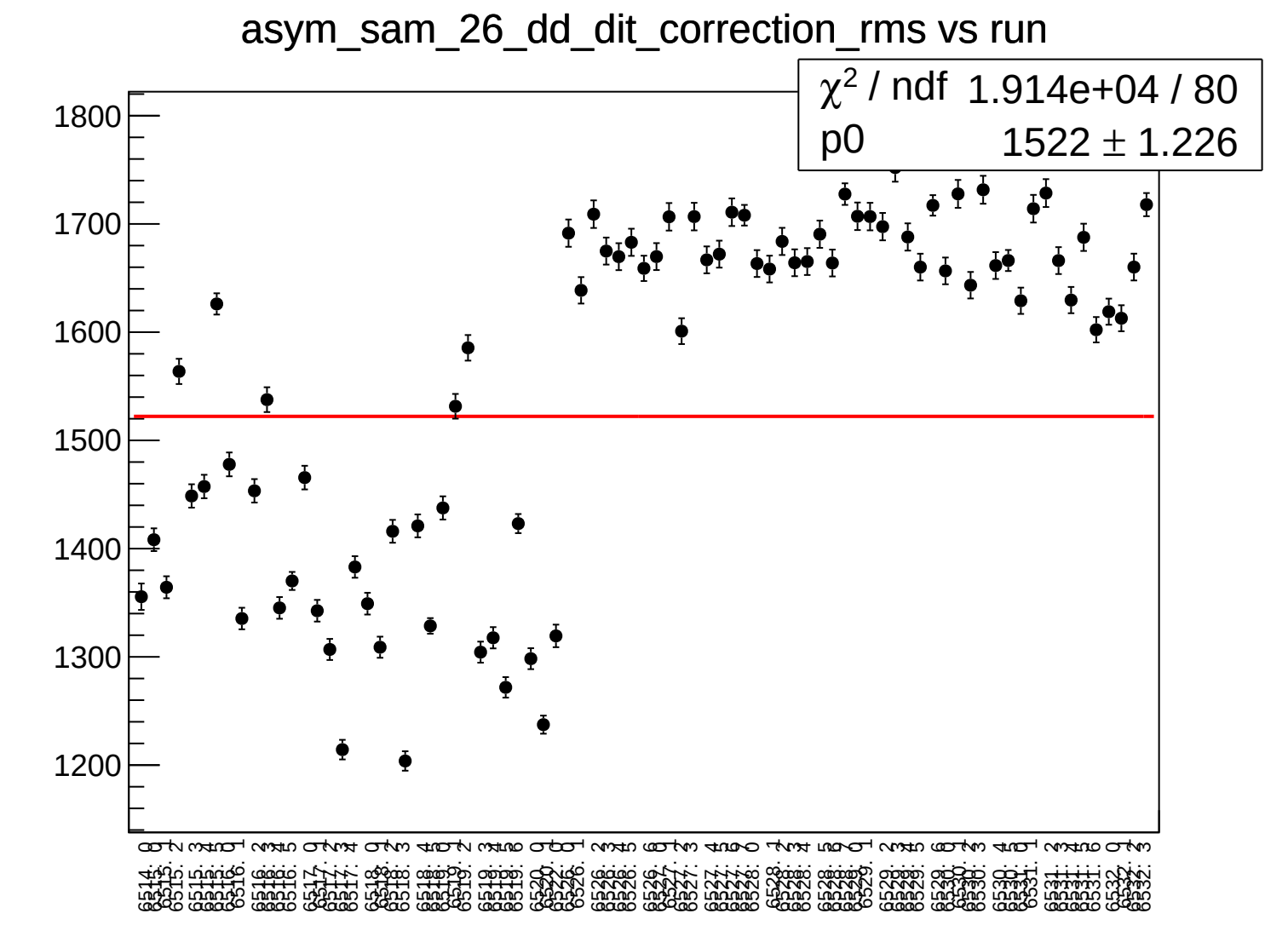

dit_asym_sam_26_dd_mean vs run
χ² / ndf 56.02 / 80
p0 −181.8 ± 217.2
pull
Entries 81
Mean −109.7
Std Dev 0

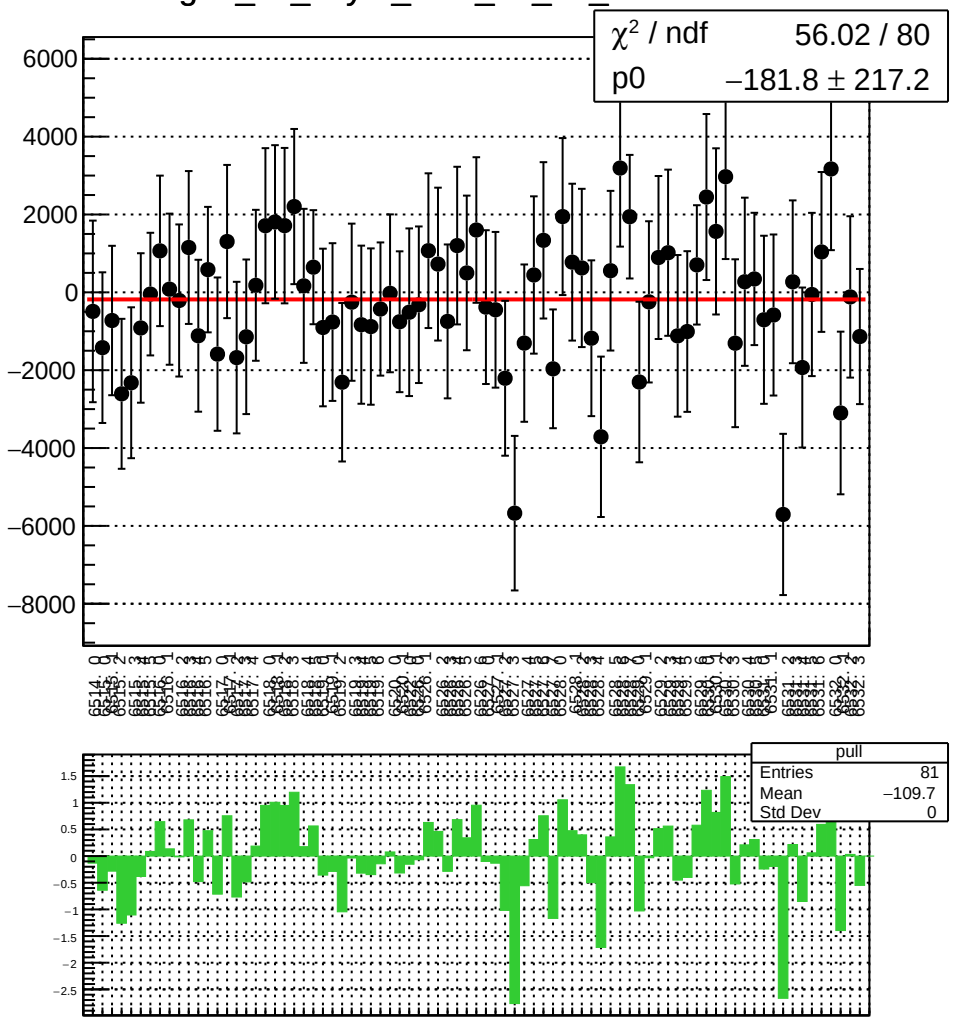

pull1D
Entries 81
Mean −0.004332
Std Dev 0.8316

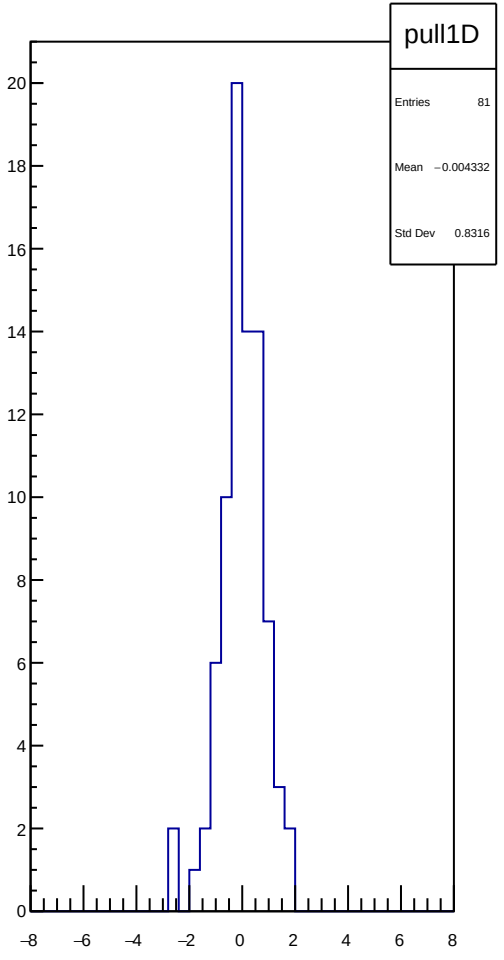

dit_asym_sam_26_dd_rms vs run
χ² / ndf 1391 / 80
p0 191.8 ± 0.1536
205
200
195
190
185
180

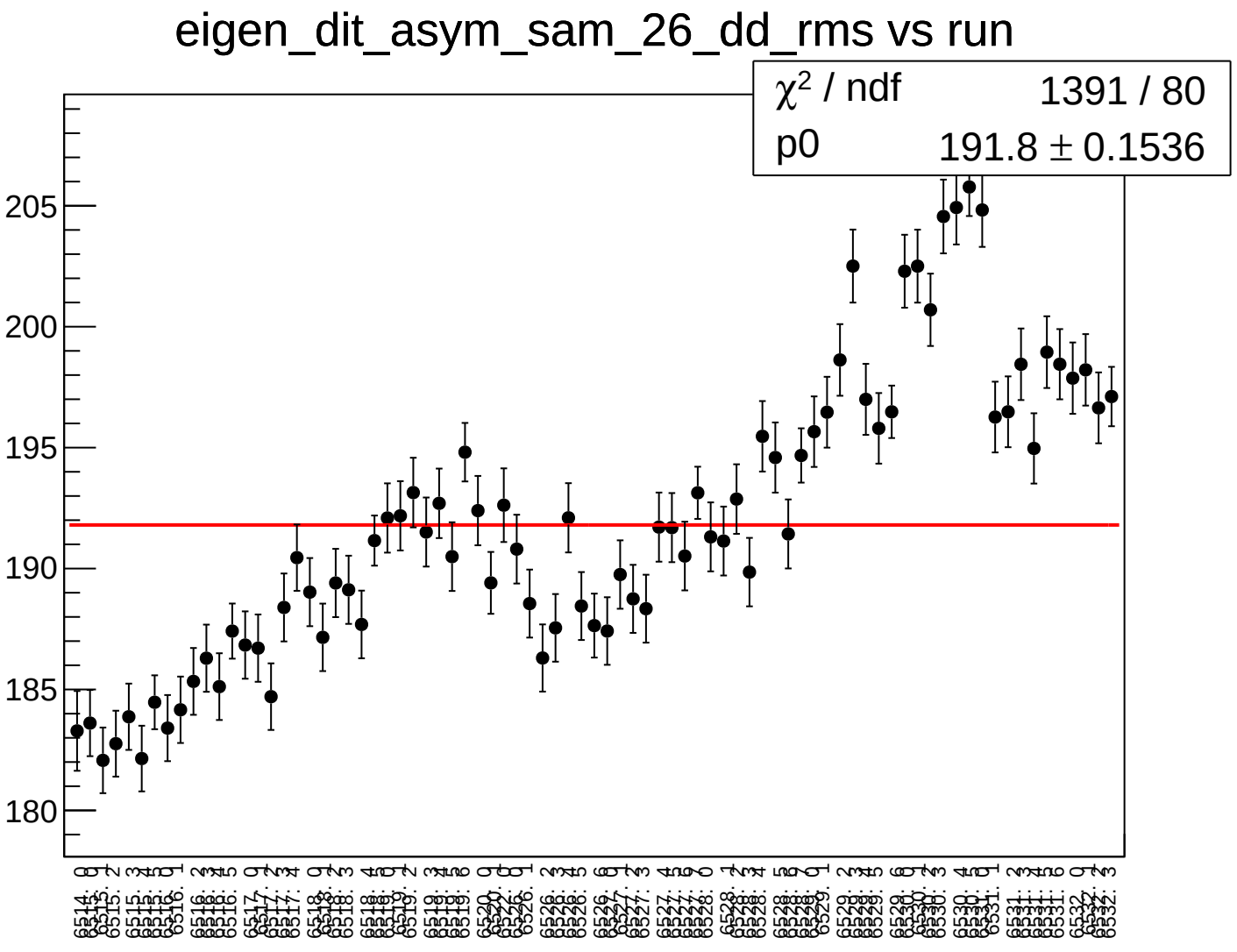

asym_sam_26_dd_dit_correction_mean vs run
χ² / ndf 71.07 / 80
p0 2530 ± 1734
pull
Entries 81
Mean −182
Std Dev 0

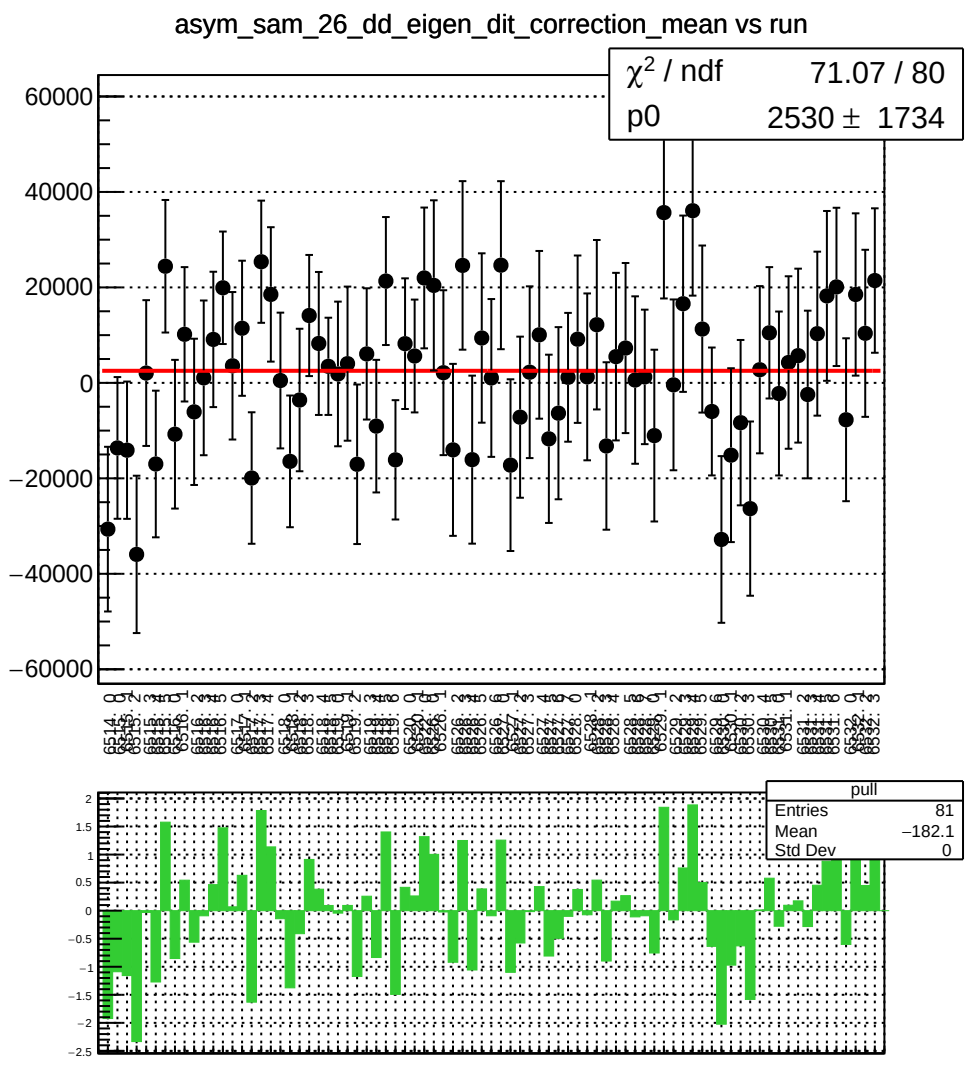

pull1D
Entries 81
Mean −0.01605
Std Dev 0.9366

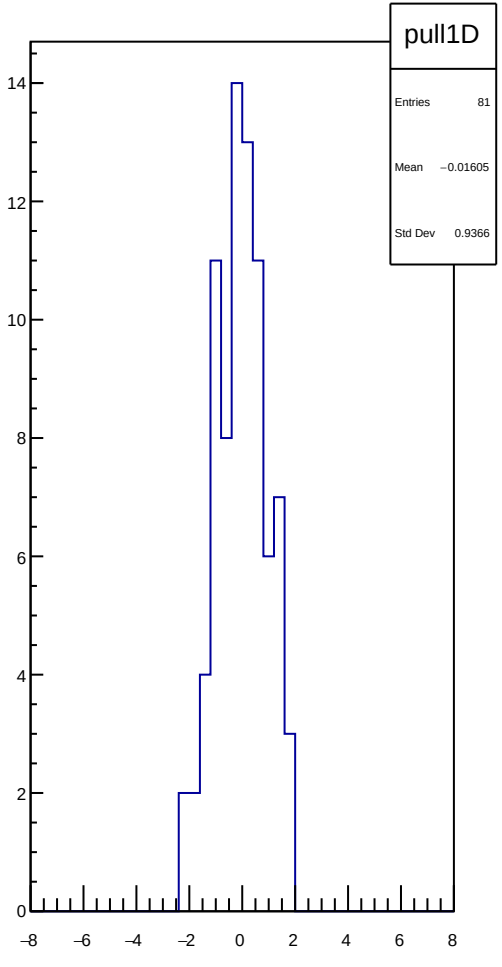

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 1.914e+04 / 80
p0 1522 ± 1.226
1800
1700
1600
1500
1400
1300
1200

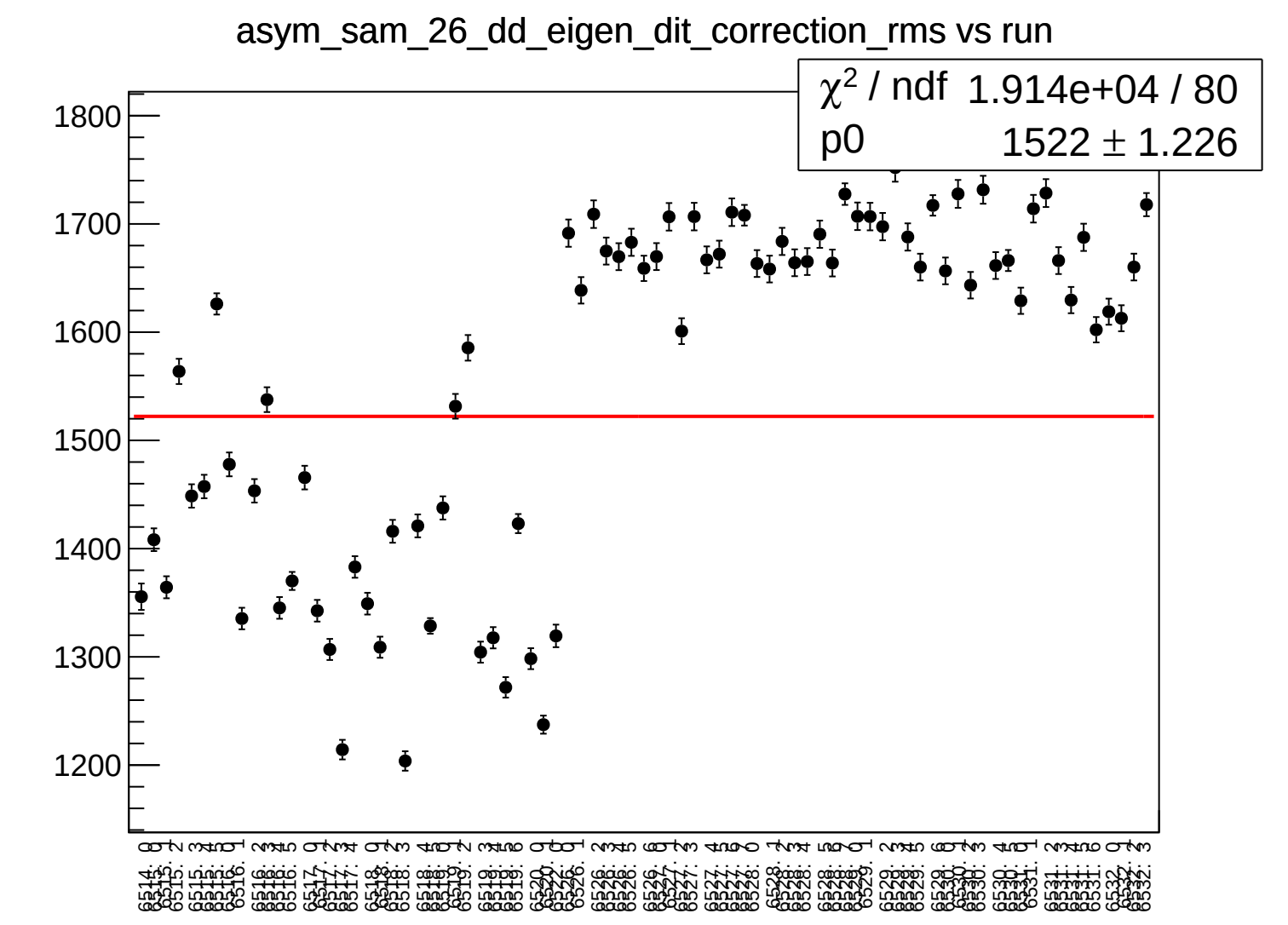

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 56.02 / 80
p0 −181.8 ± 217.2
pull
Entries 81
Mean −109.7
Std Dev 0

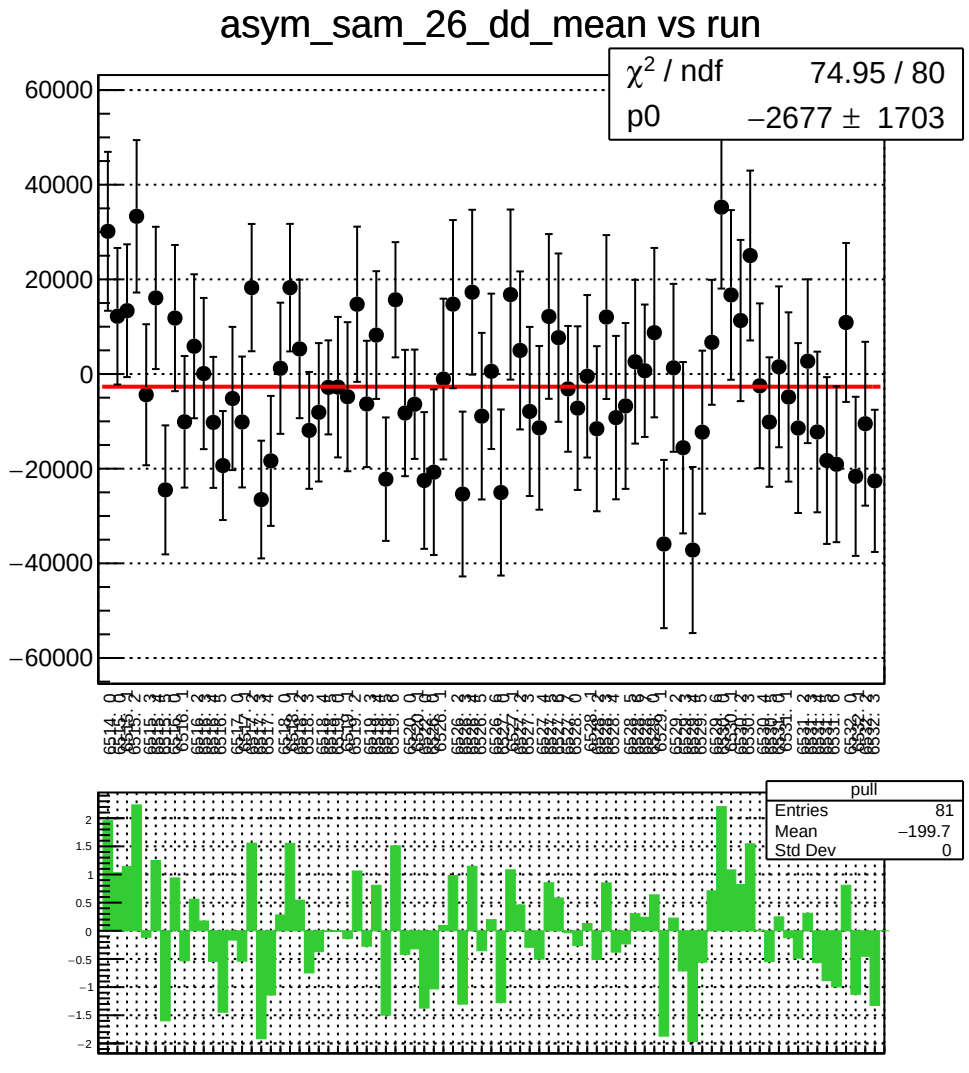

pull1D
Entries 81
Mean −0.004332
Std Dev 0.8316

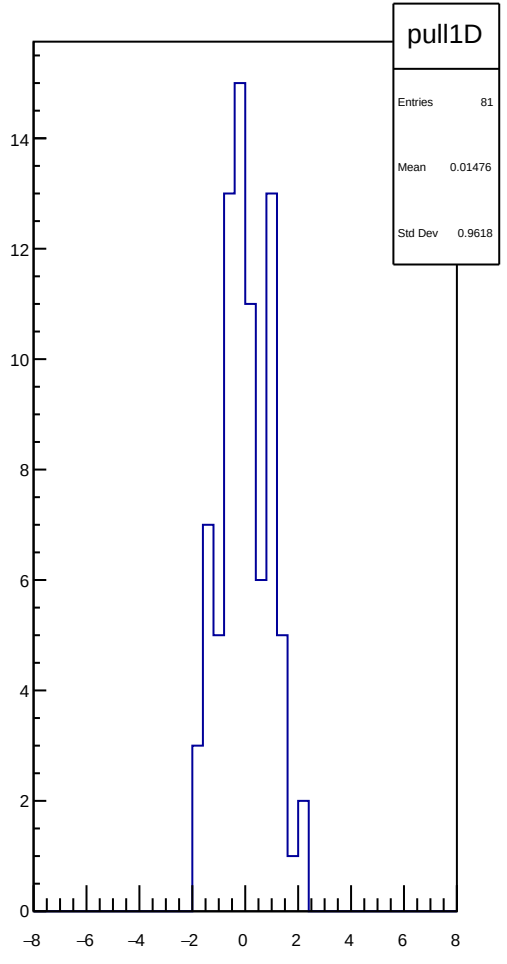

eigen_dit_asym_sam_26_dd_rms vs run
χ² / ndf 1391 / 80
p0 191.8 ± 0.1536
205
200
195
190
185
180

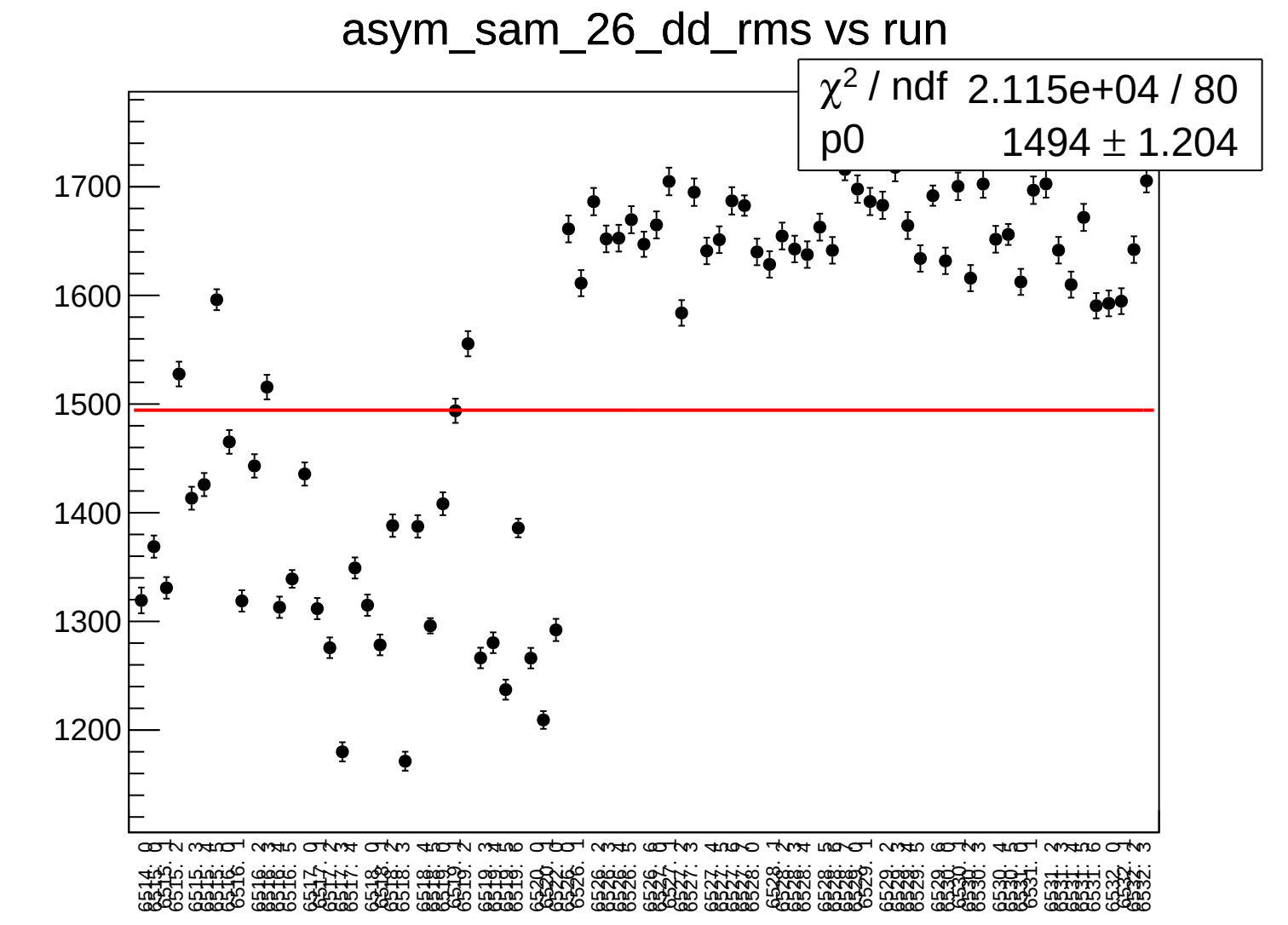

asym_sam_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 71.07 / 80
p0 2530 ± 1734
pull
Entries 81
Mean −182.1
Std Dev 0

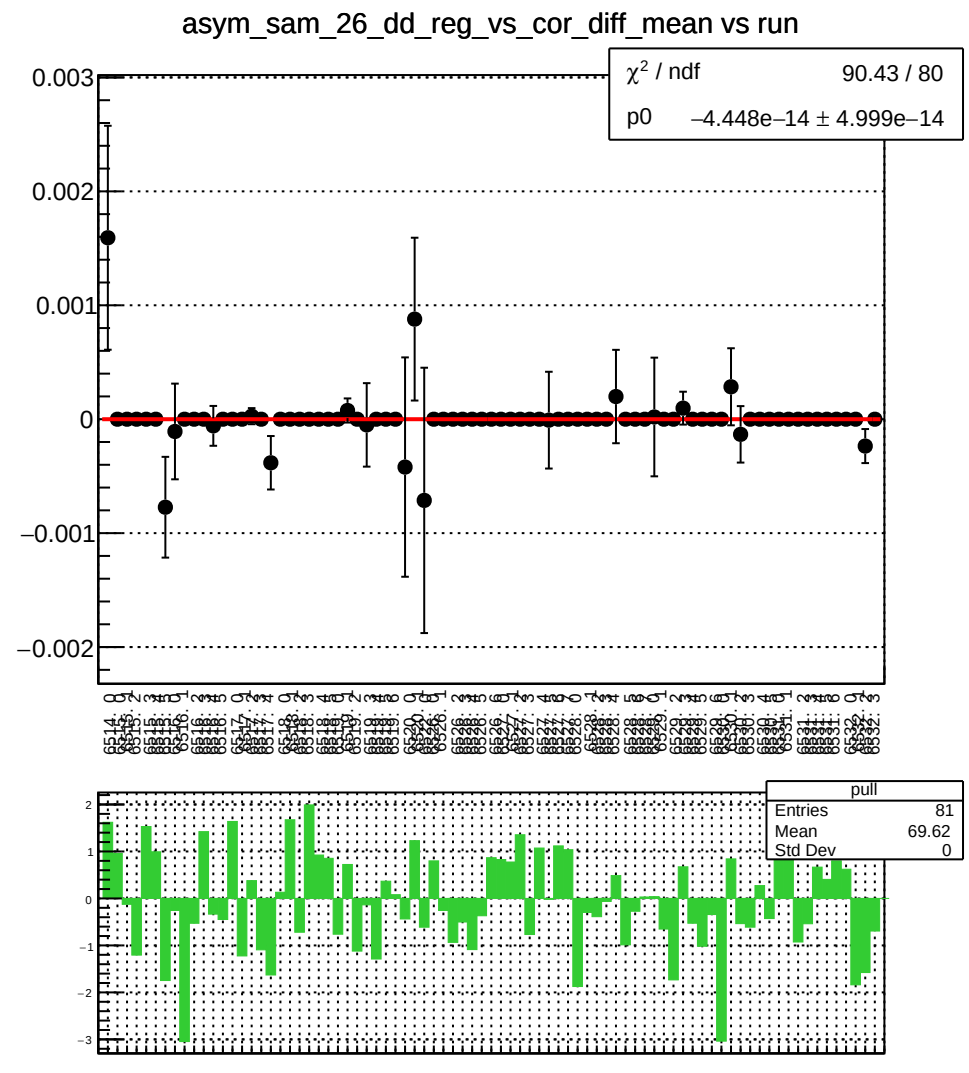

pull1D
Entries 81
Mean −0.01605
Std Dev 0.9366

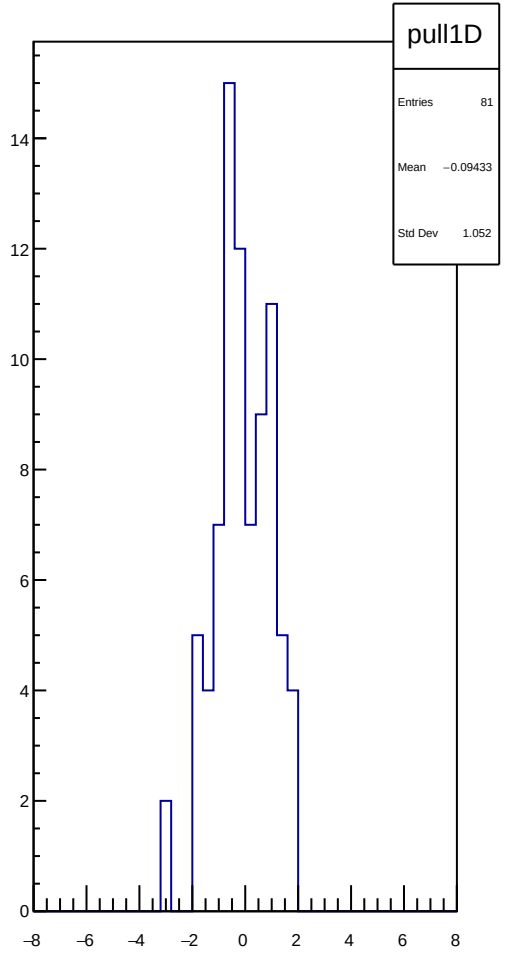

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.914e+04 / 80
p0 1522 ± 1.226
1800
1700
1600
1500
1400
1300
1200

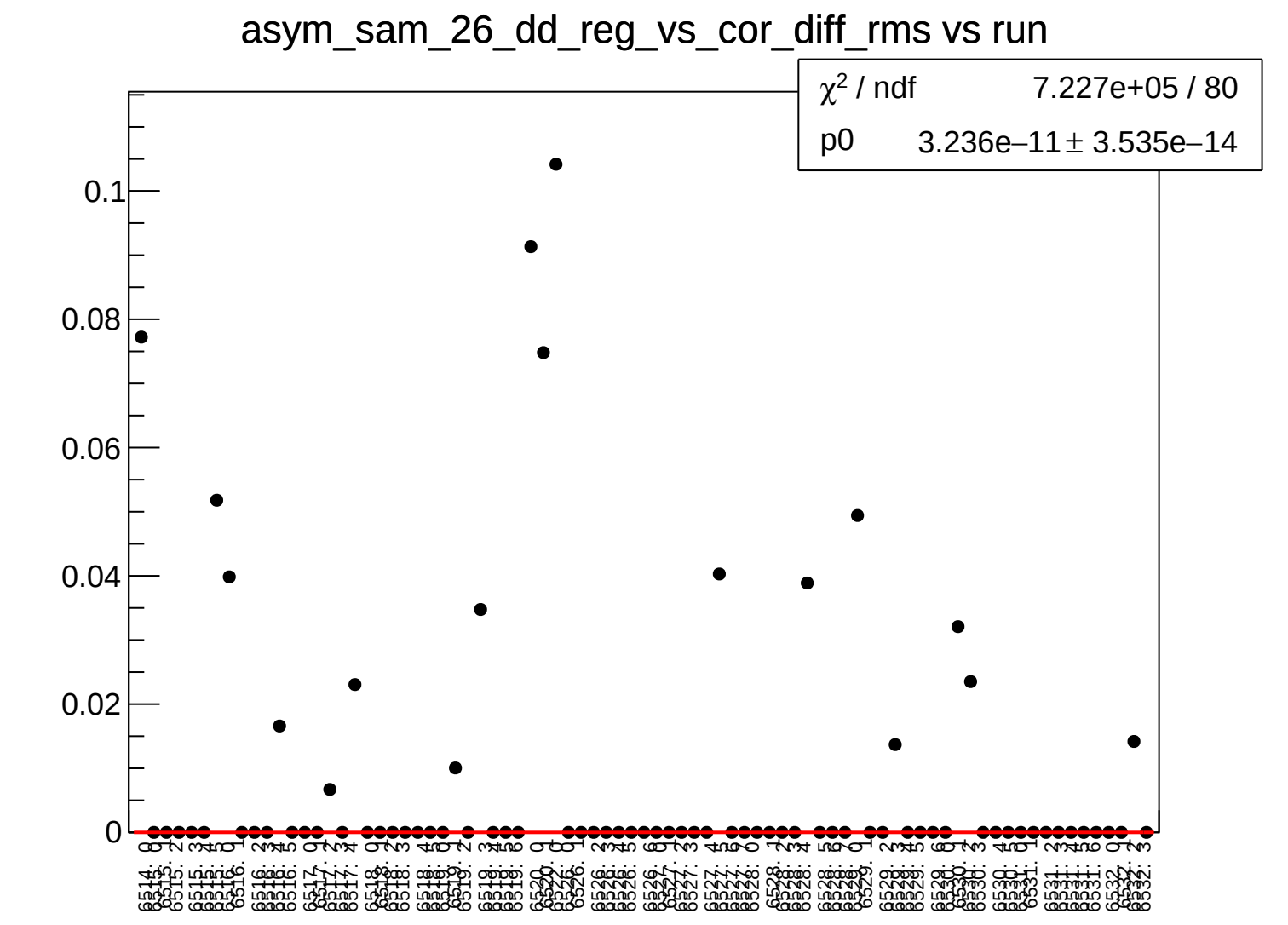

asym_sam_26_dd_mean vs run
χ² / ndf 74.95 / 80
p0 −2677 ± 1703
pull
Entries 81
Mean −199.7
Std Dev 0

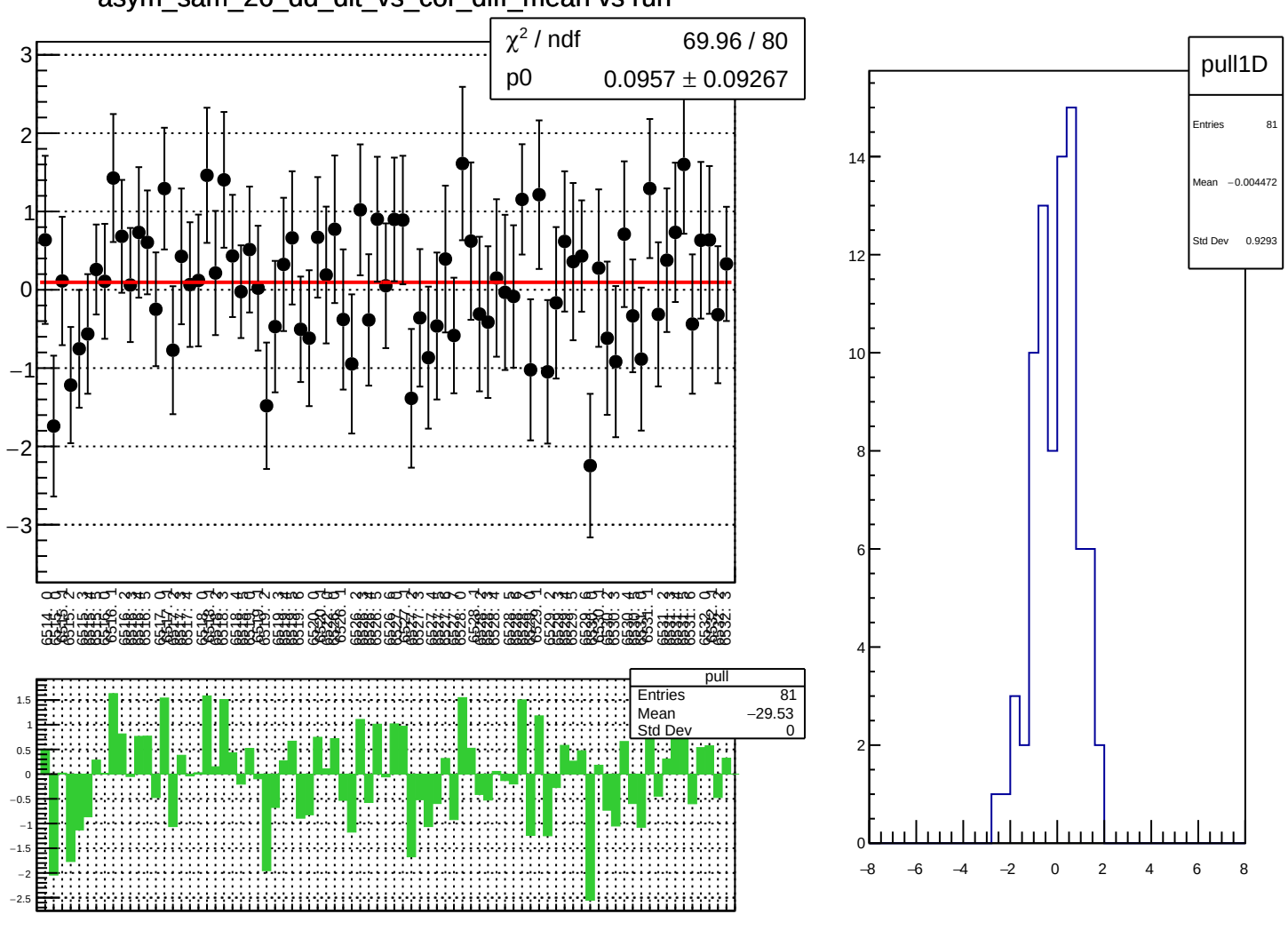

pull1D
Entries 81
Mean 0.01476
Std Dev 0.9618

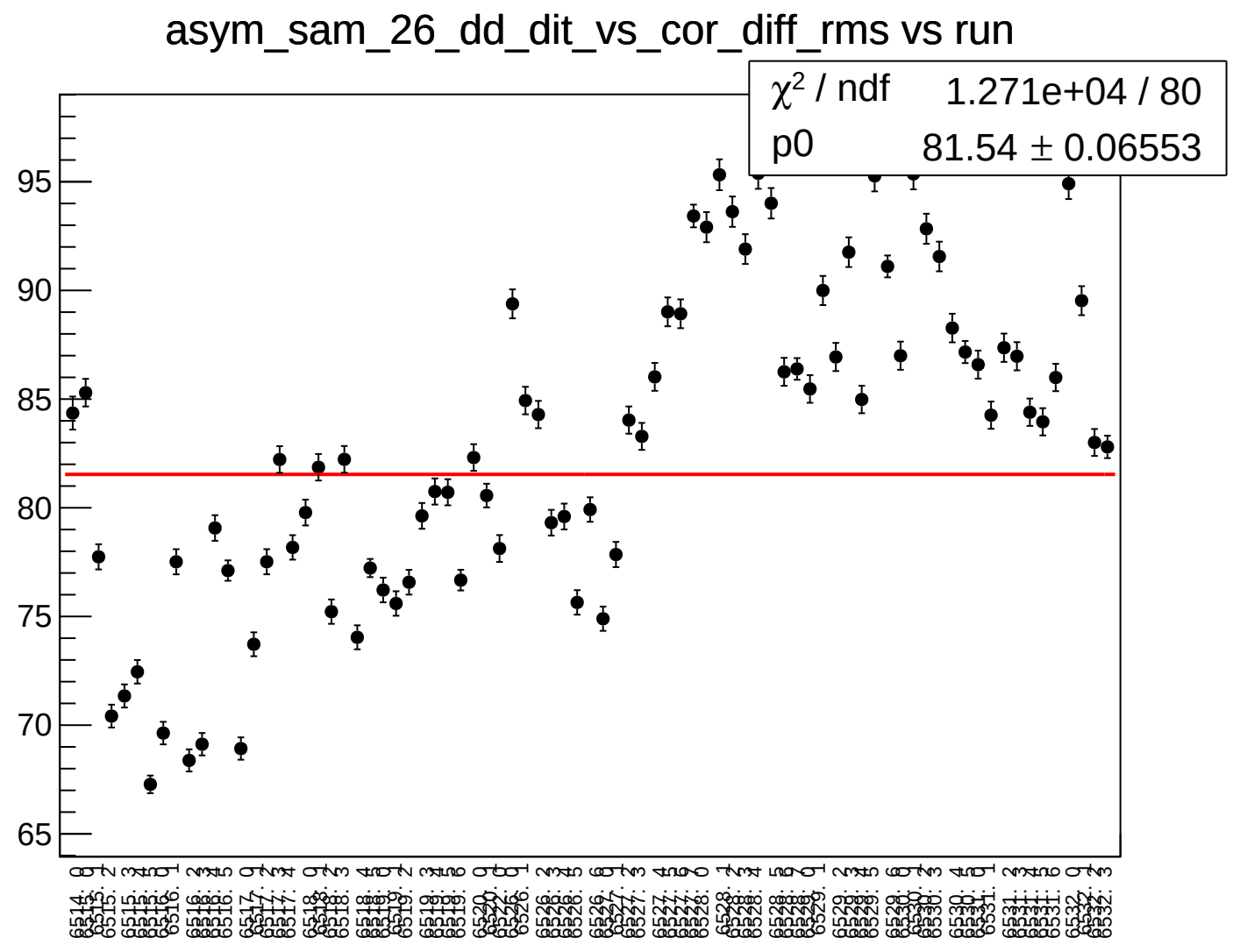

asym_sam_26_dd_rms vs run
χ² / ndf 2.115e+04 / 80
p0 1494 ± 1.204
1700
1600
1500
1400
1300
1200

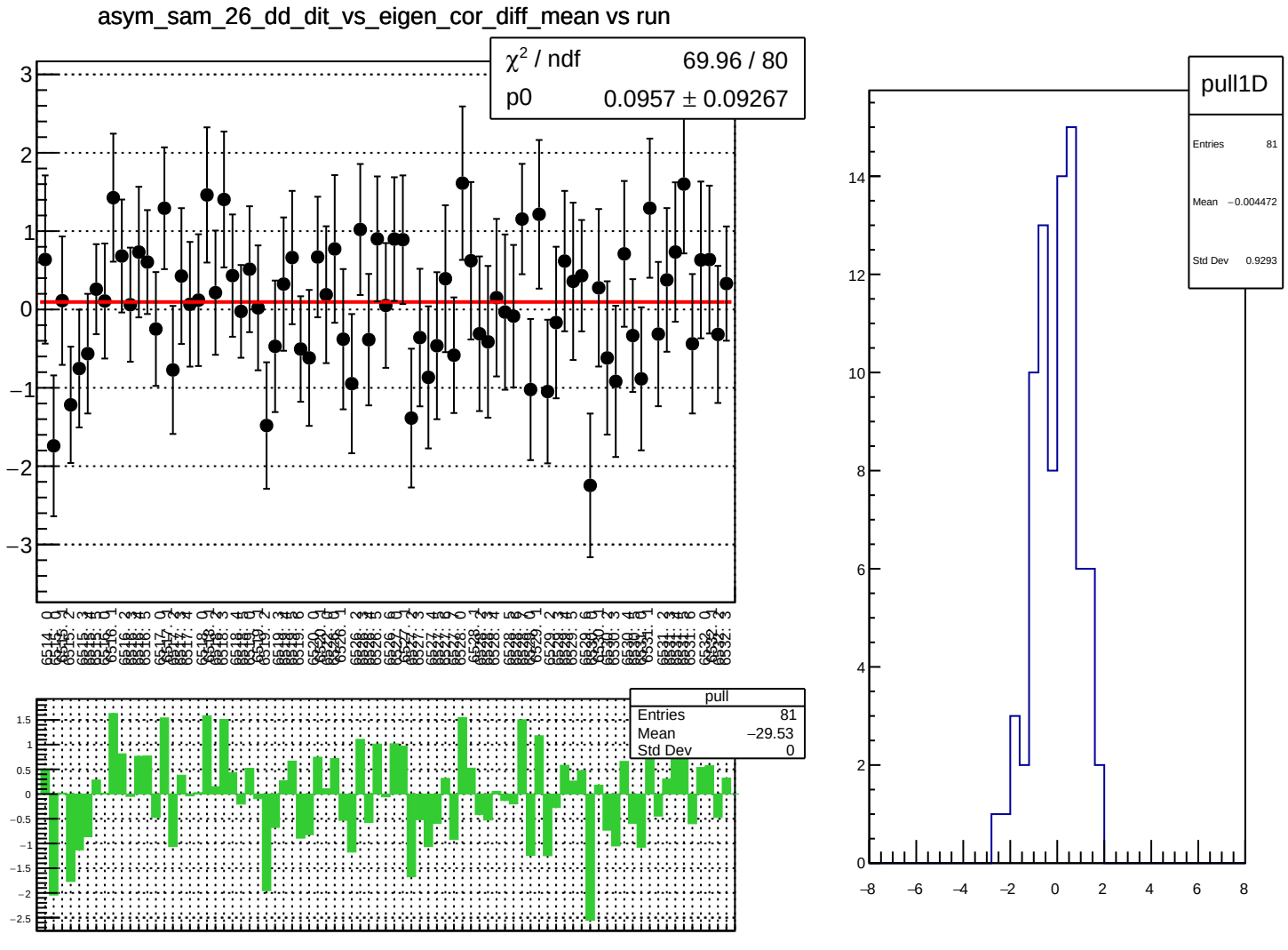

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 90.43 / 80
p0 −4.448e−14 ± 4.999e−14
0.003
0.002
0.001
0
−0.001
−0.002
pull
Entries 81
Mean 69.62
Std Dev 0
2
1
0
−1
−2
−3

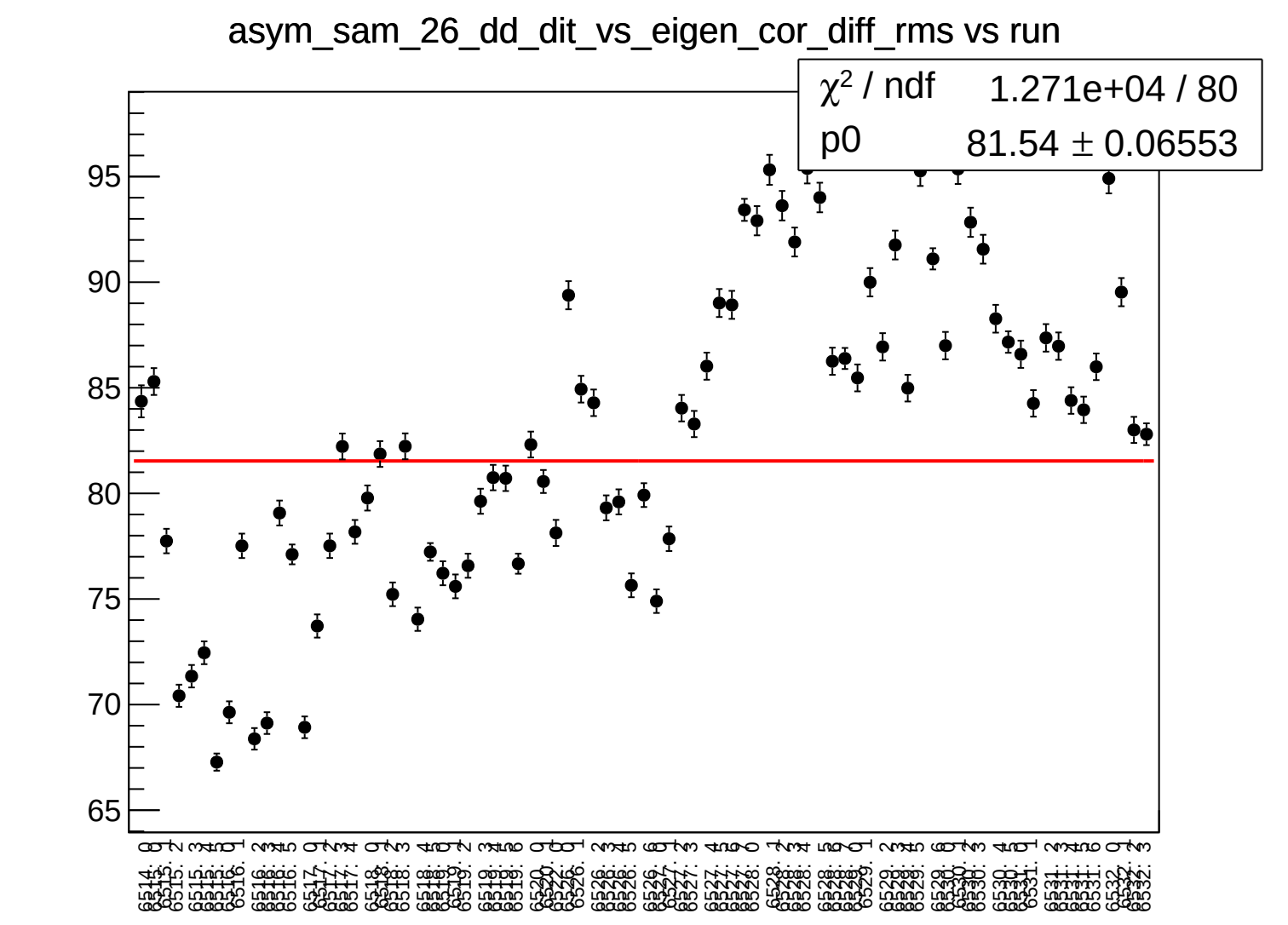

pull1D
Entries 81
Mean −0.09433
Std Dev 1.052
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

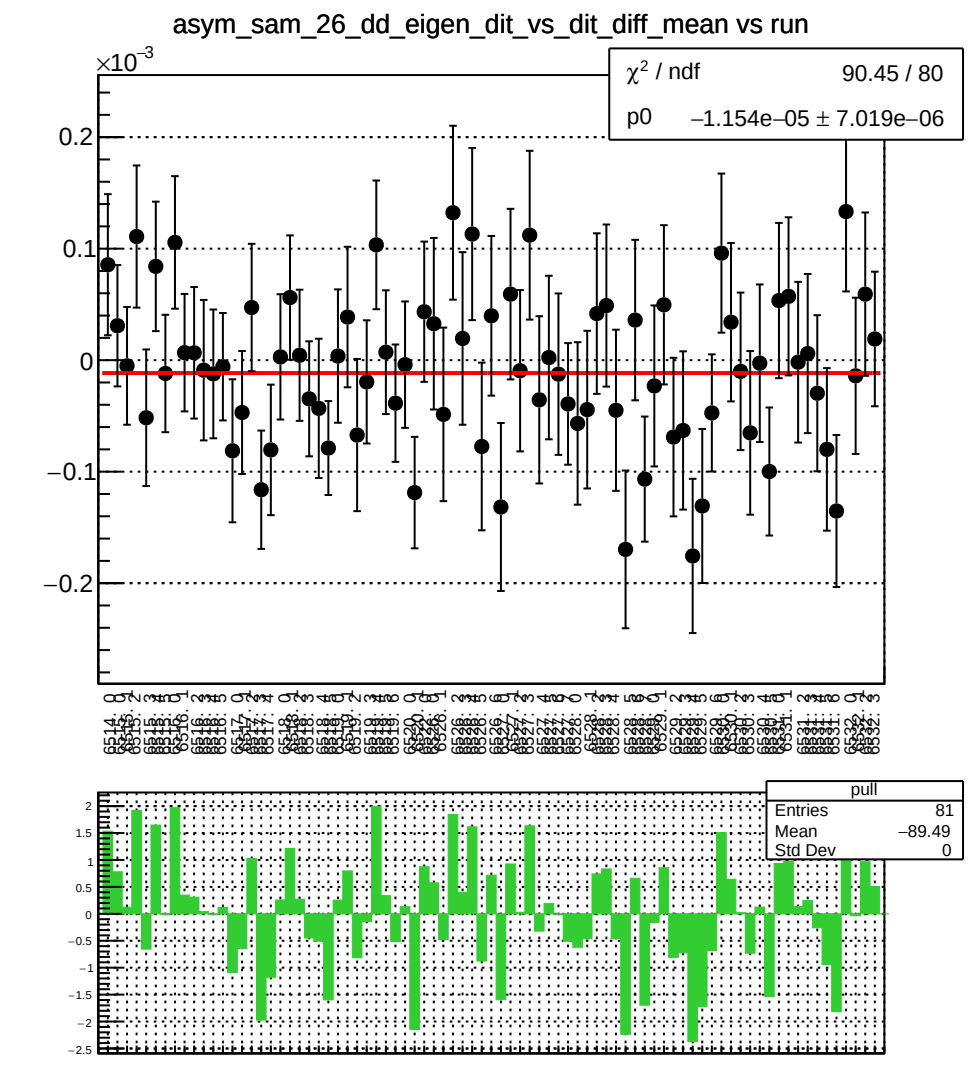

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.227e+05 / 80
p0 3.236e−11 ± 3.535e−14
0.1
0.08
0.06
0.04
0.02
0

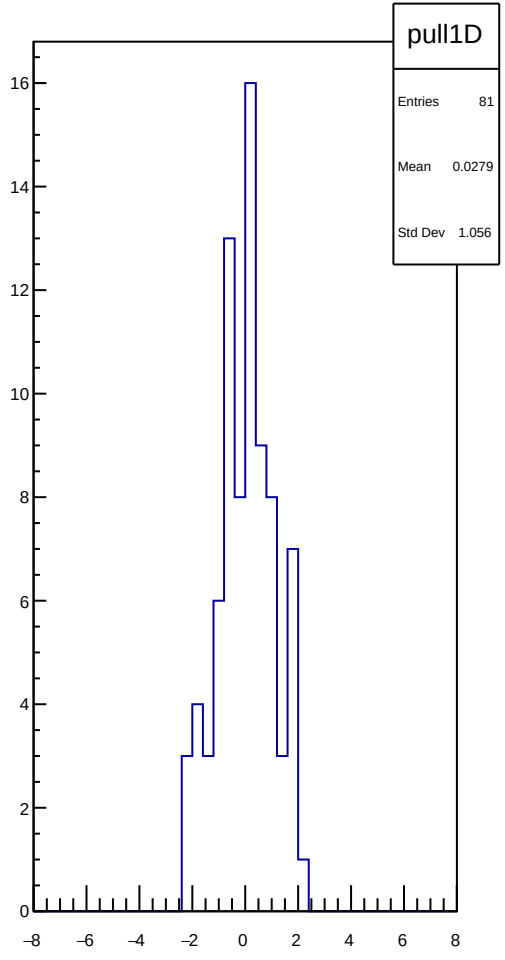

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 69.96 / 80
p0 0.0957 ± 0.09267
pull
Entries 81
Mean −29.53
Std Dev 0
pull1D
Entries 81
Mean −0.004472
Std Dev 0.9293

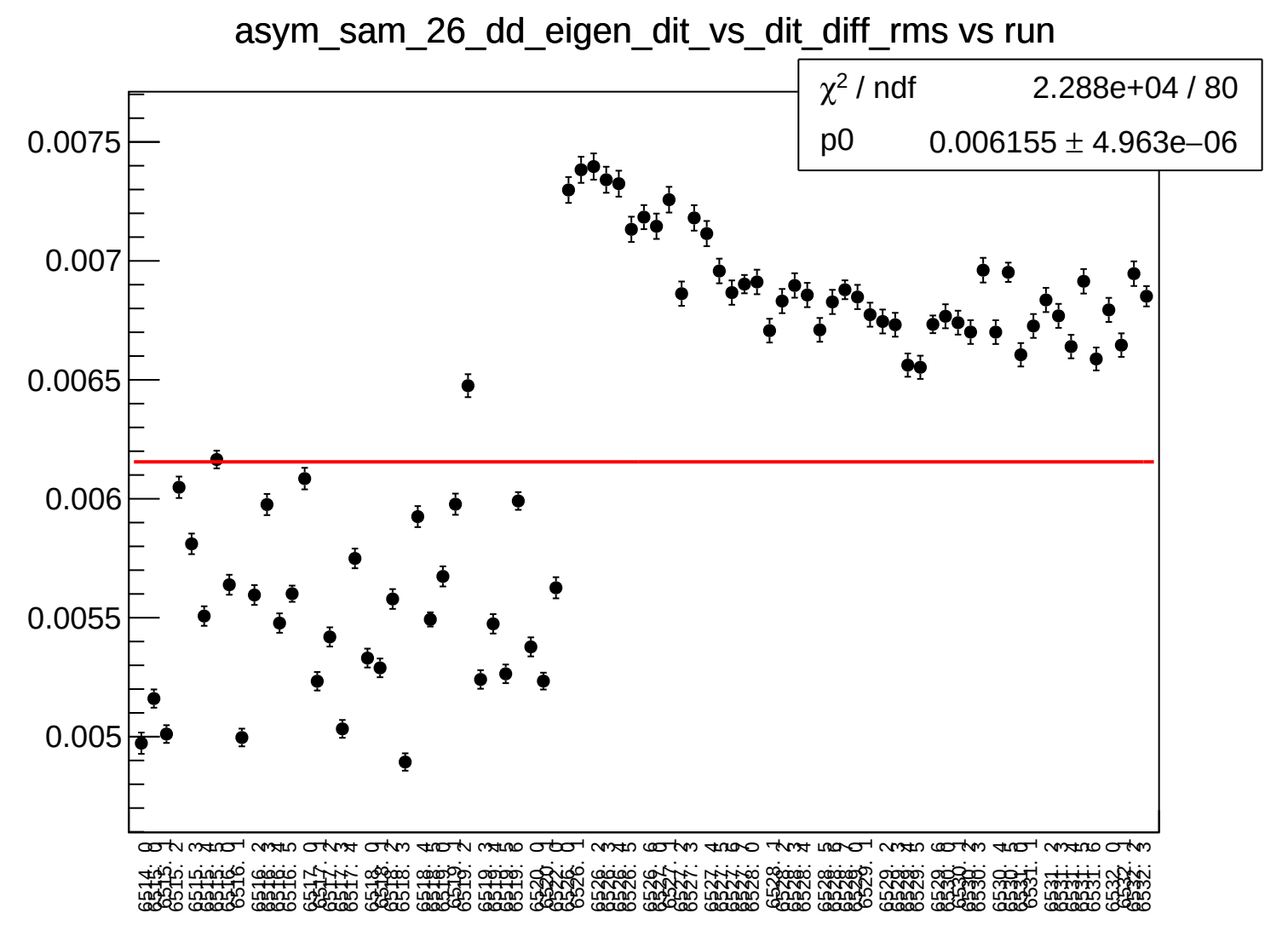

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.271e+04 / 80
p0 81.54 ± 0.06553
95
90
85
80
75
70
65

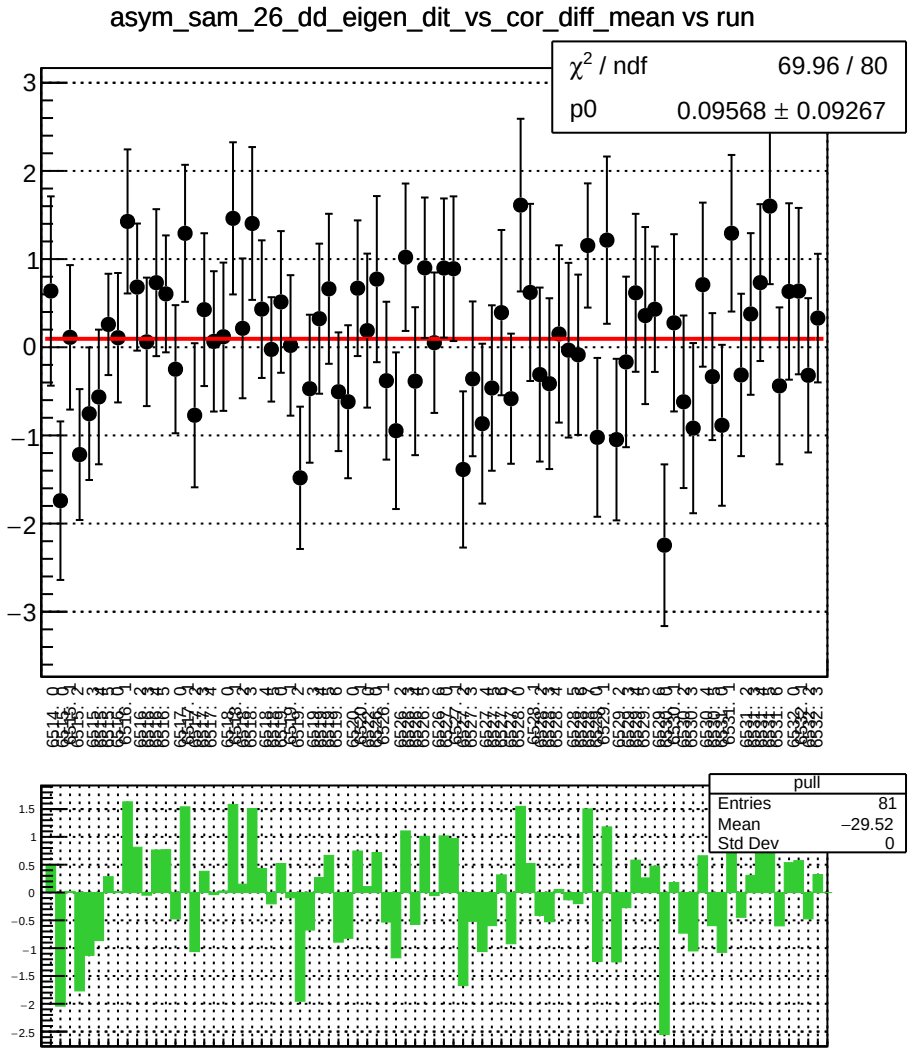

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.96 / 80
p0 0.0957 ± 0.09267
pull
Entries 81
Mean −29.53
Std Dev 0
pull1D
Entries 81
Mean −0.004472
Std Dev 0.9293

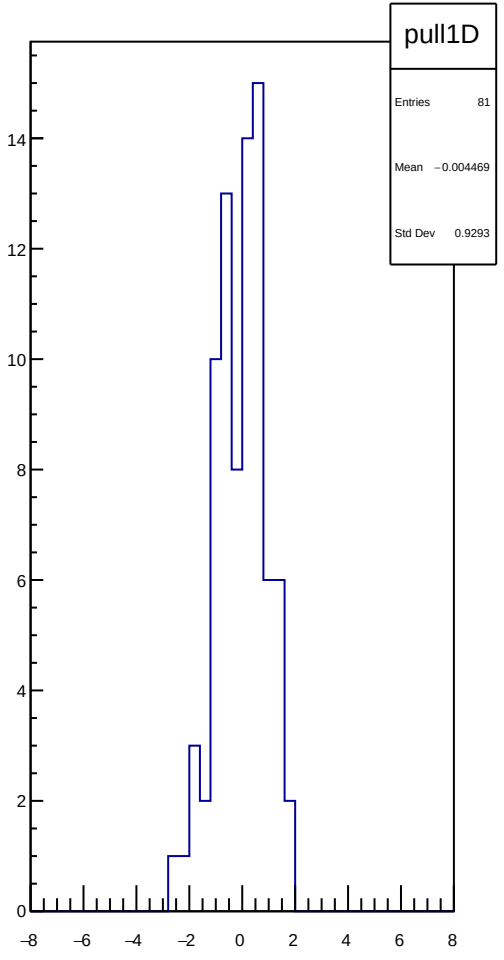

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.271e+04 / 80
p0 81.54 ± 0.06553
95
90
85
80
75
70
65

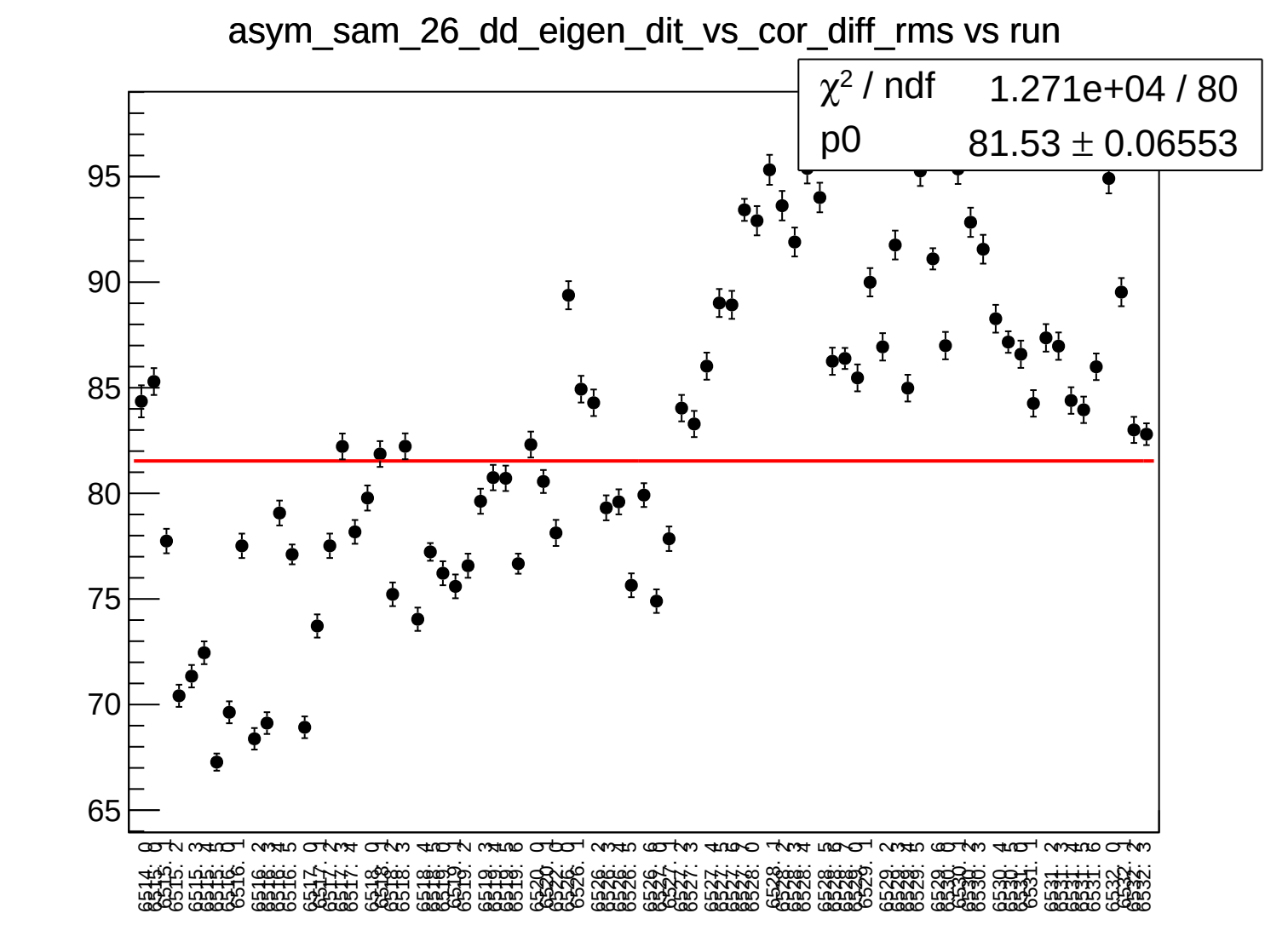

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 90.45 / 80
p0 −1.154e−05 ± 7.019e−06
pull
Entries 81
Mean −89.49
Std Dev 0

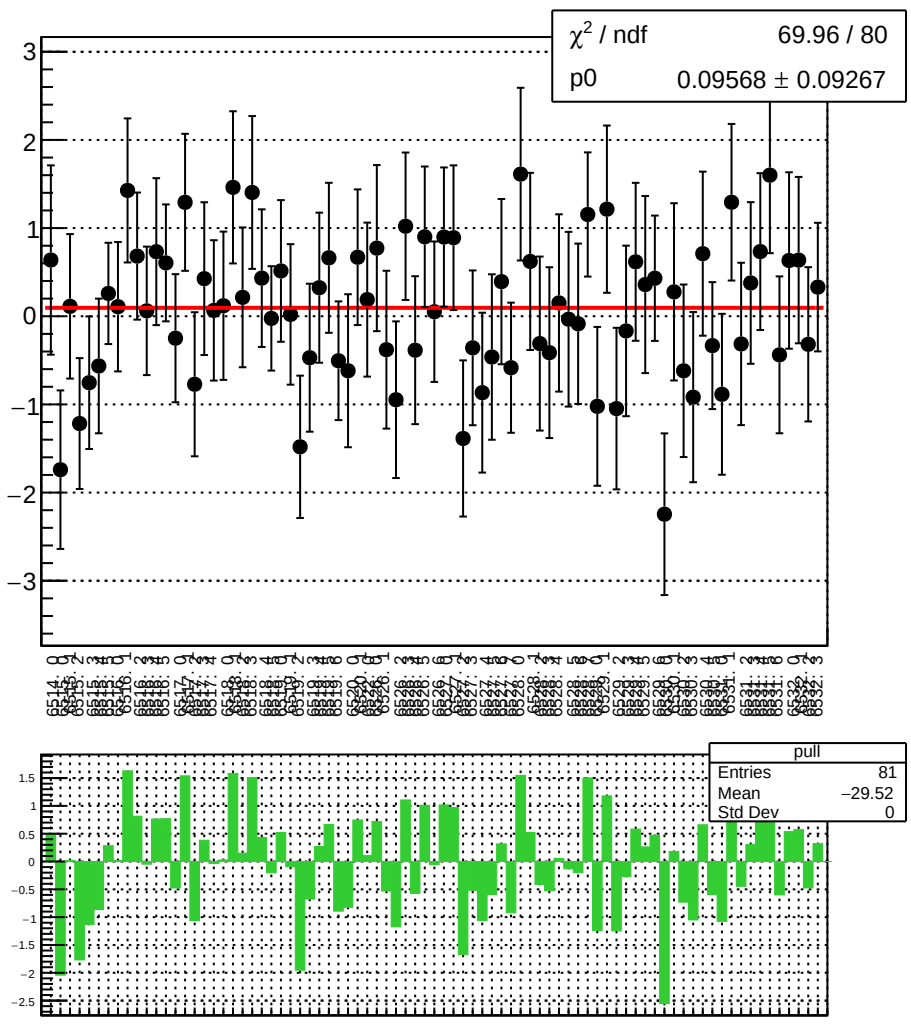

pull1D
Entries 81
Mean 0.0279
Std Dev 1.056

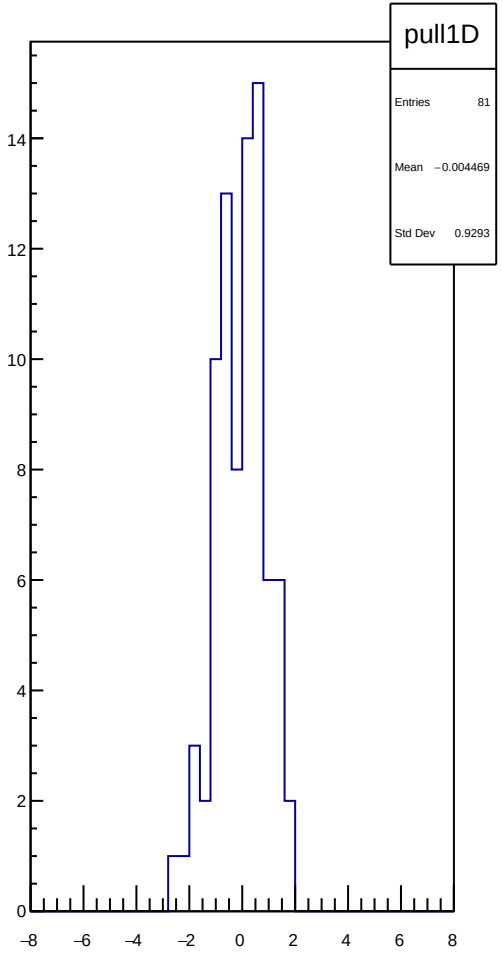

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.288e+04 / 80
p0 0.006155 ± 4.963e−06
0.0075
0.007
0.0065
0.006
0.0055
0.005

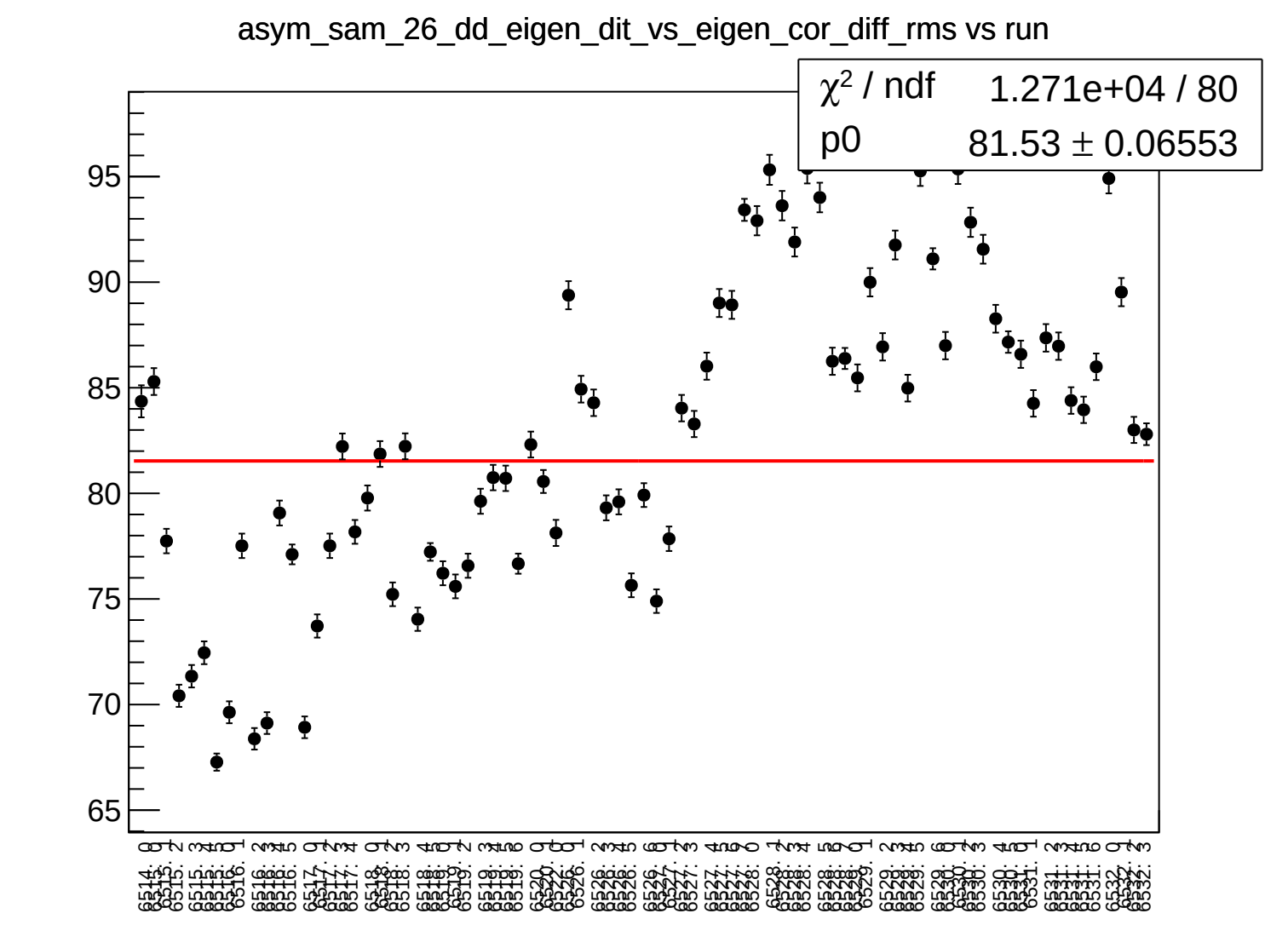

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.96 / 80
p0 0.09568 ± 0.09267
pull
Entries 81
Mean −29.52
Std Dev 0

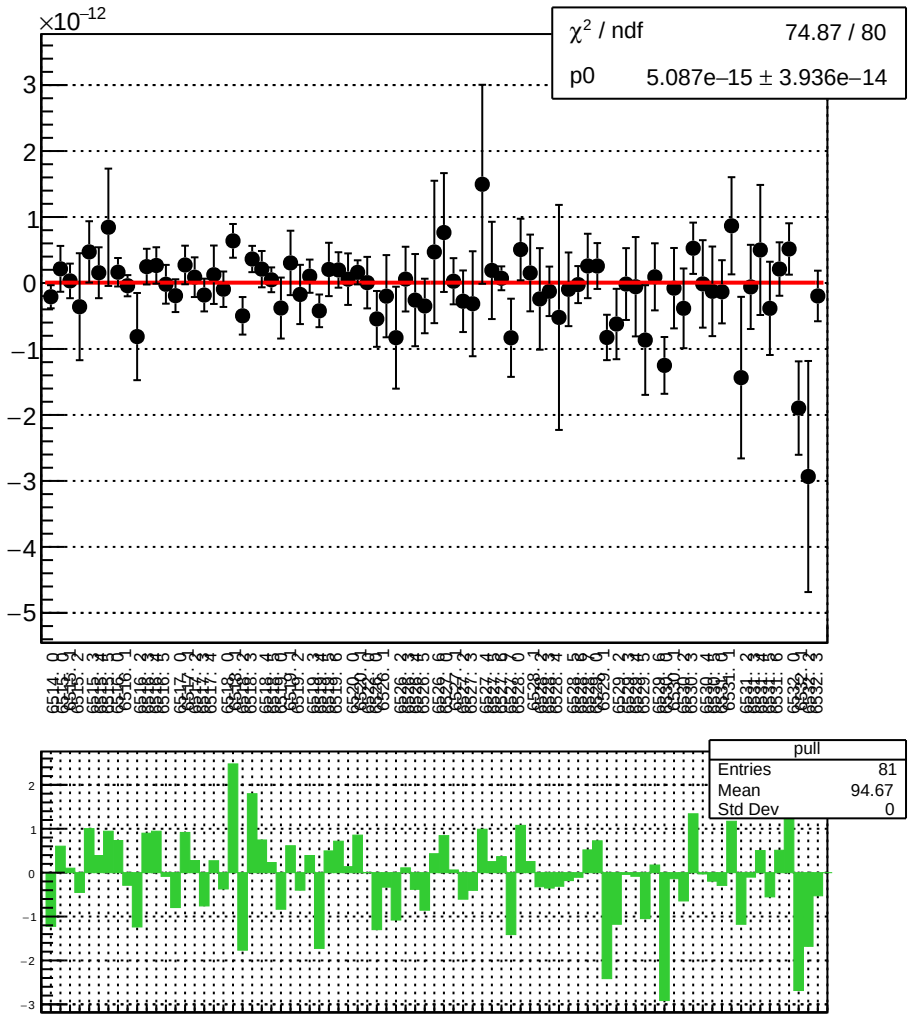

pull1D
Entries 81
Mean −0.004469
Std Dev 0.9293

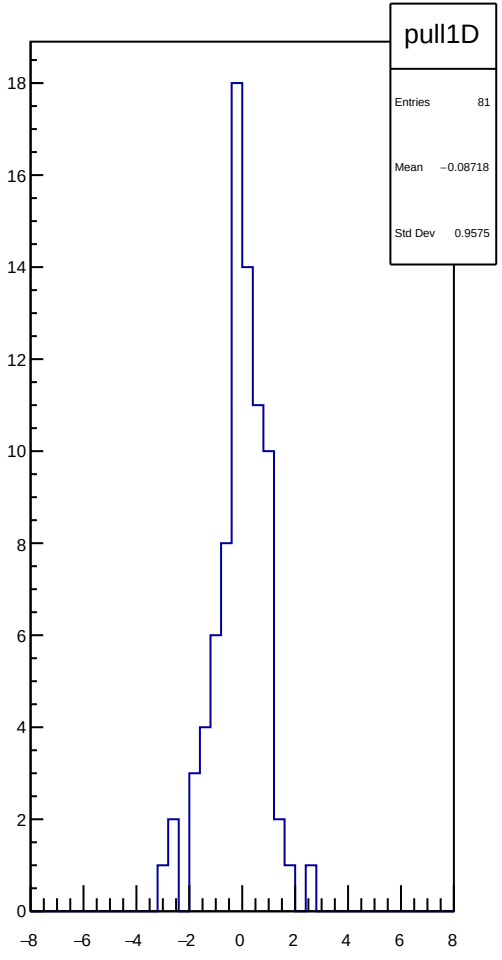

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.271e+04 / 80
p0 81.53 ± 0.06553
95
90
85
80
75
70
65

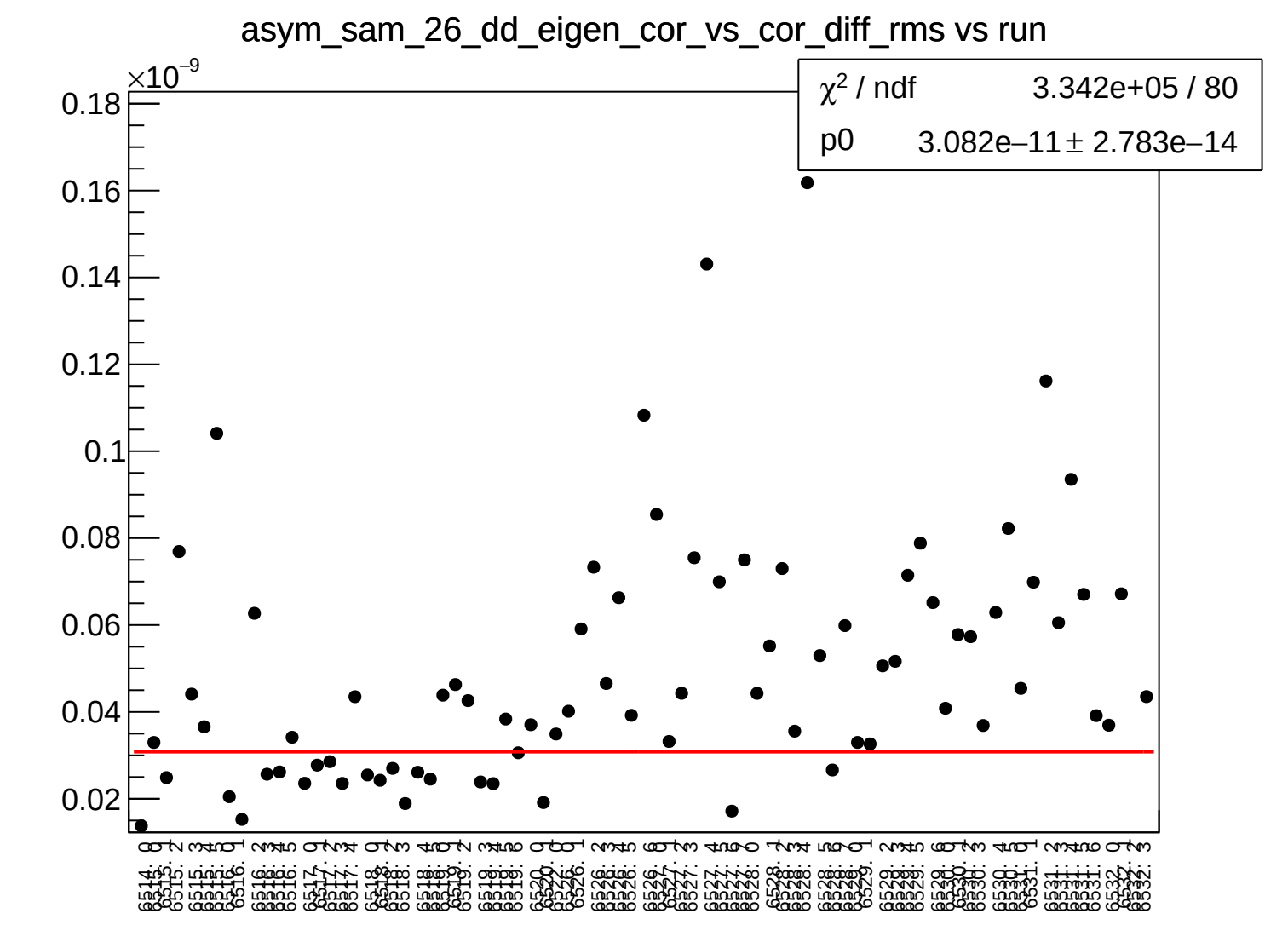

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.96 / 80
p0 0.09568 ± 0.09267
pull
Entries 81
Mean −29.52
Std Dev 0

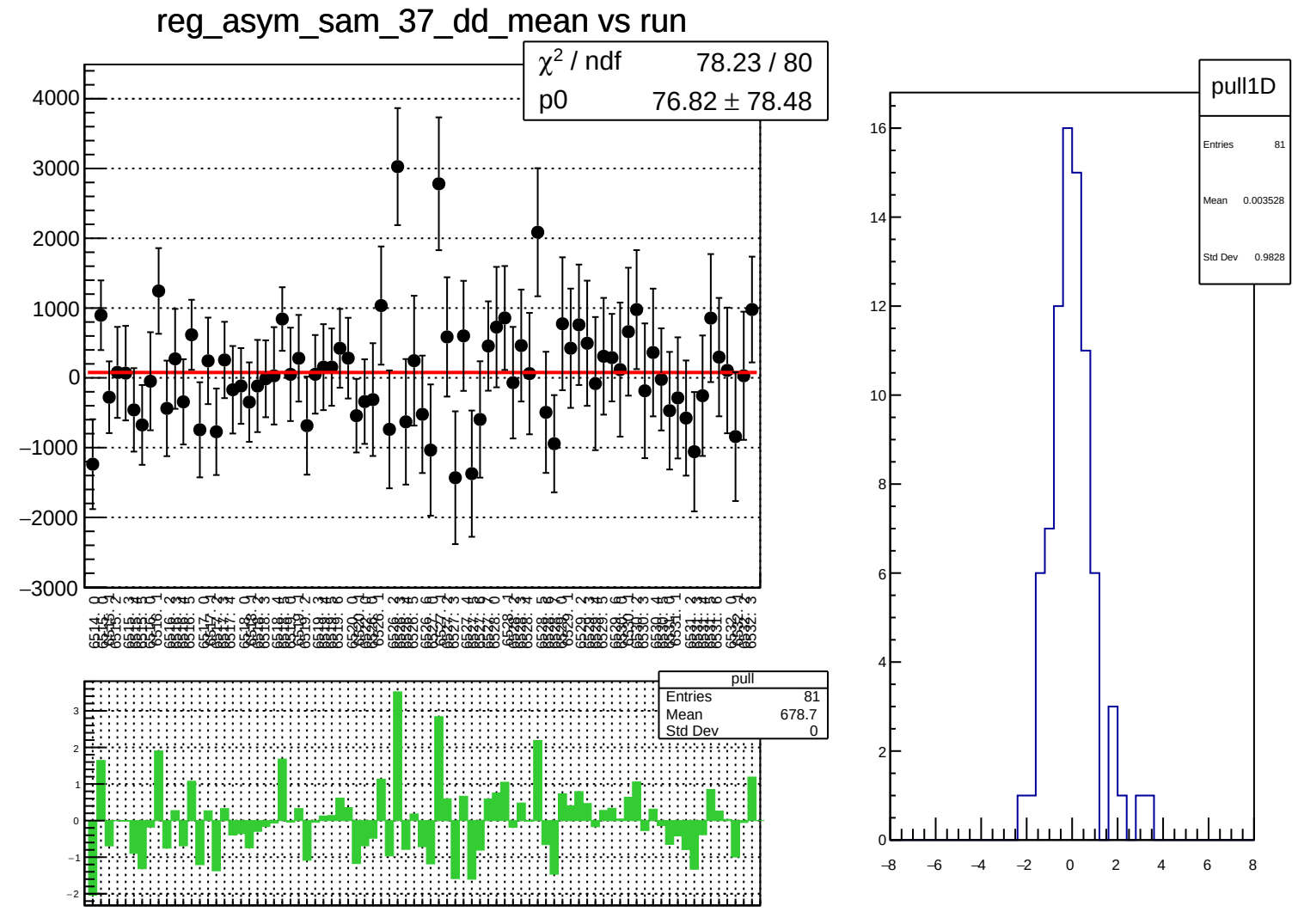

pull1D
Entries 81
Mean −0.004469
Std Dev 0.9293

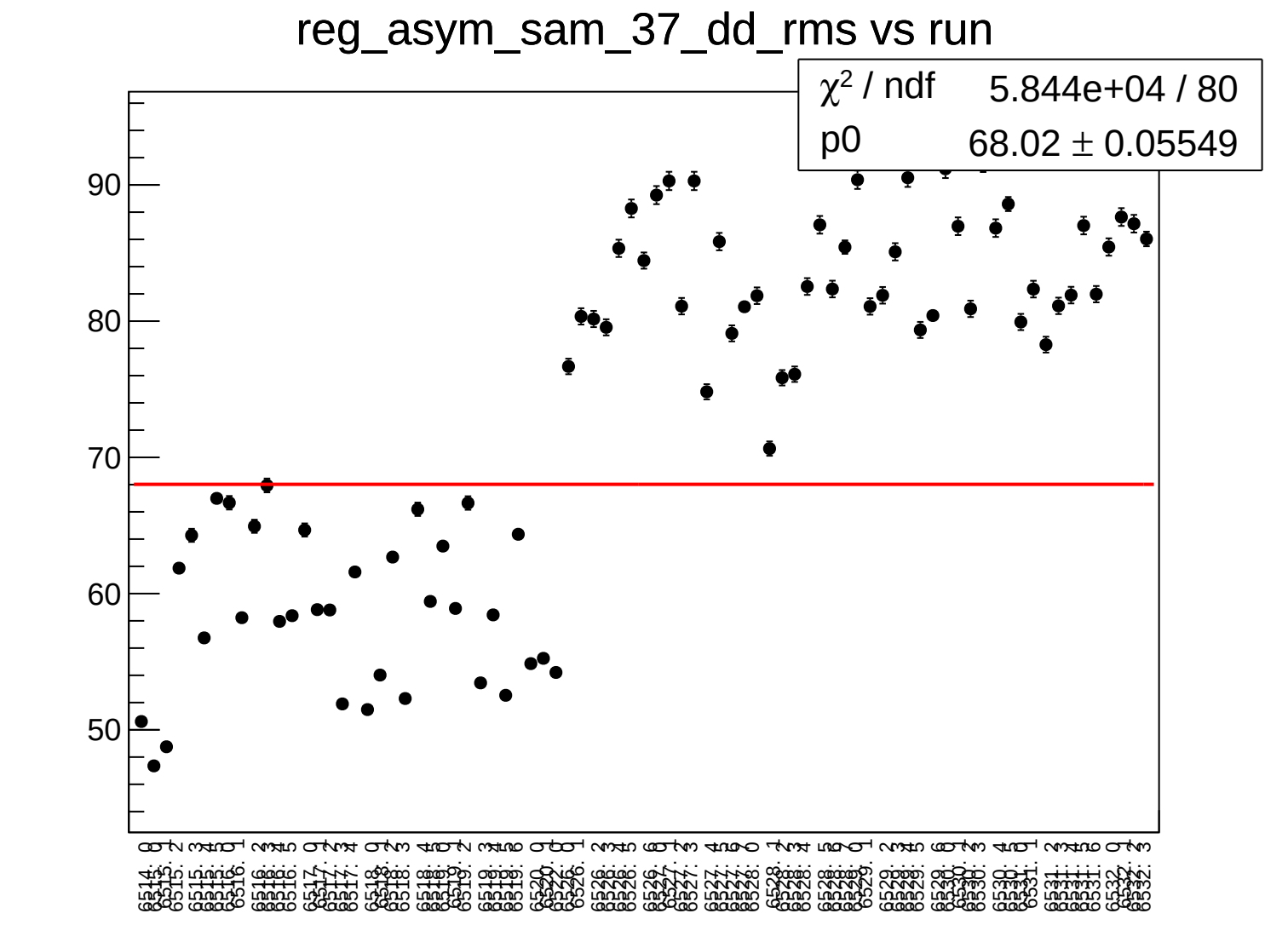

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.271e+04 / 80
p0 81.53 ± 0.06553
95
90
85
80
75
70
65

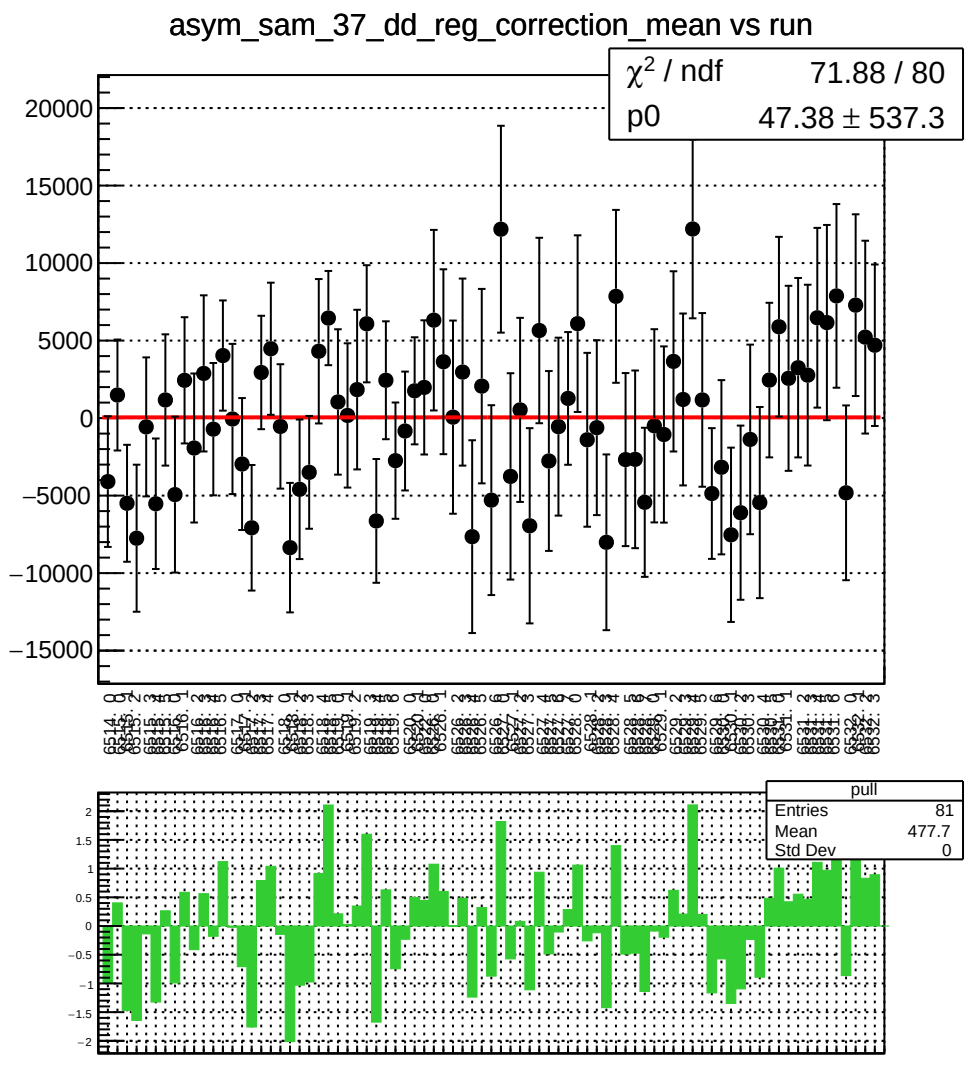

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.87 / 80
p0 5.087e−15 ± 3.936e−14
pull
Entries 81
Mean 94.67
Std Dev 0

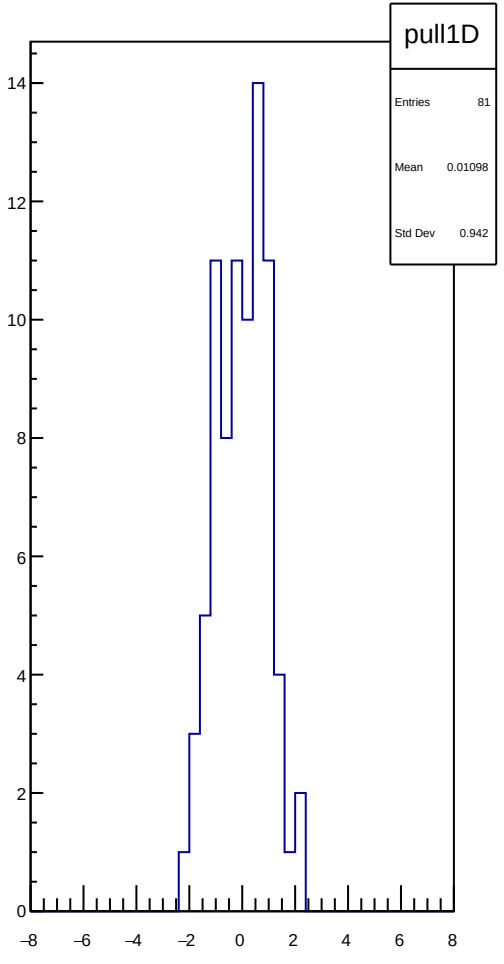

pull1D
Entries 81
Mean −0.08718
Std Dev 0.9575

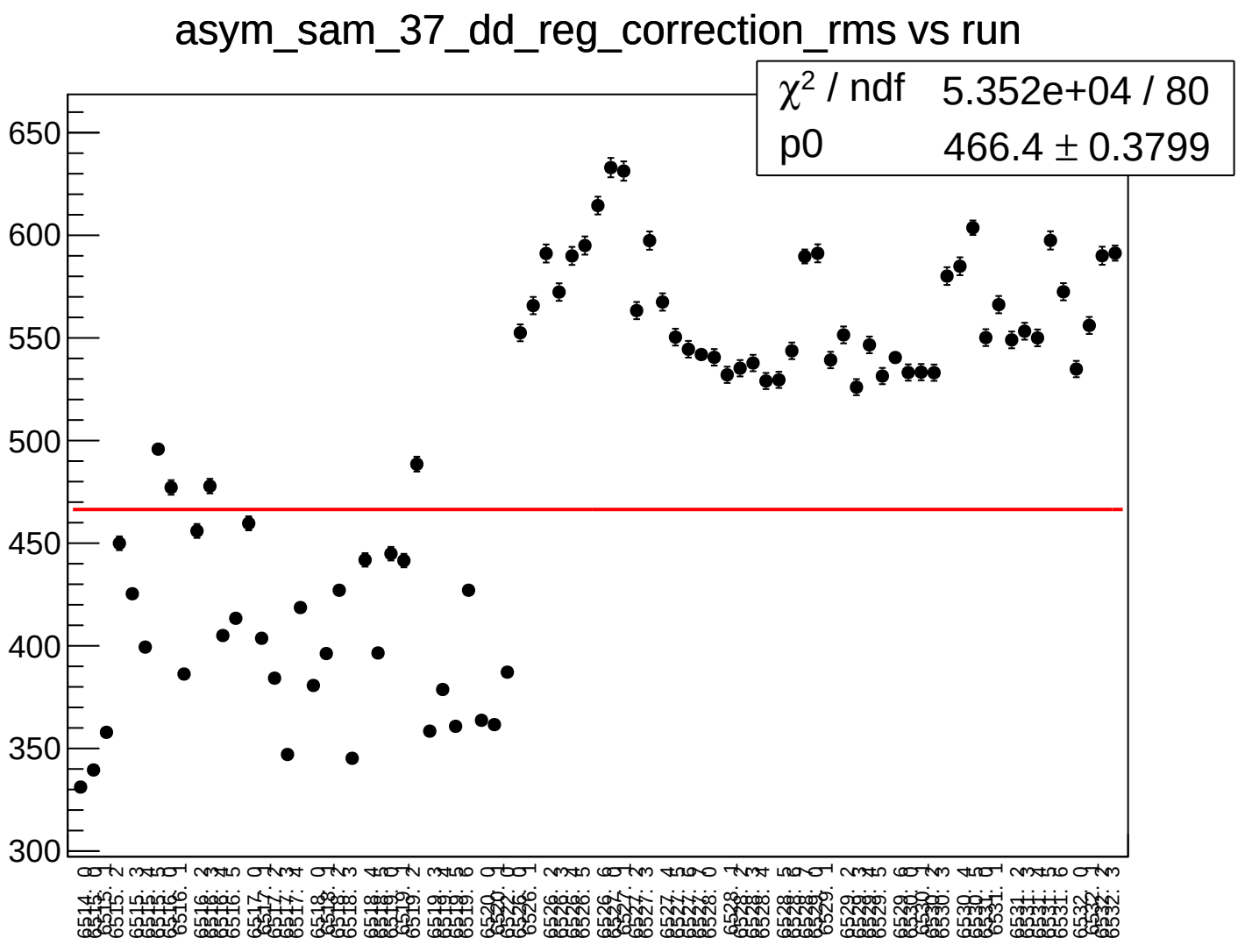

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.342e+05 / 80
p0 3.082e−11 ± 2.783e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

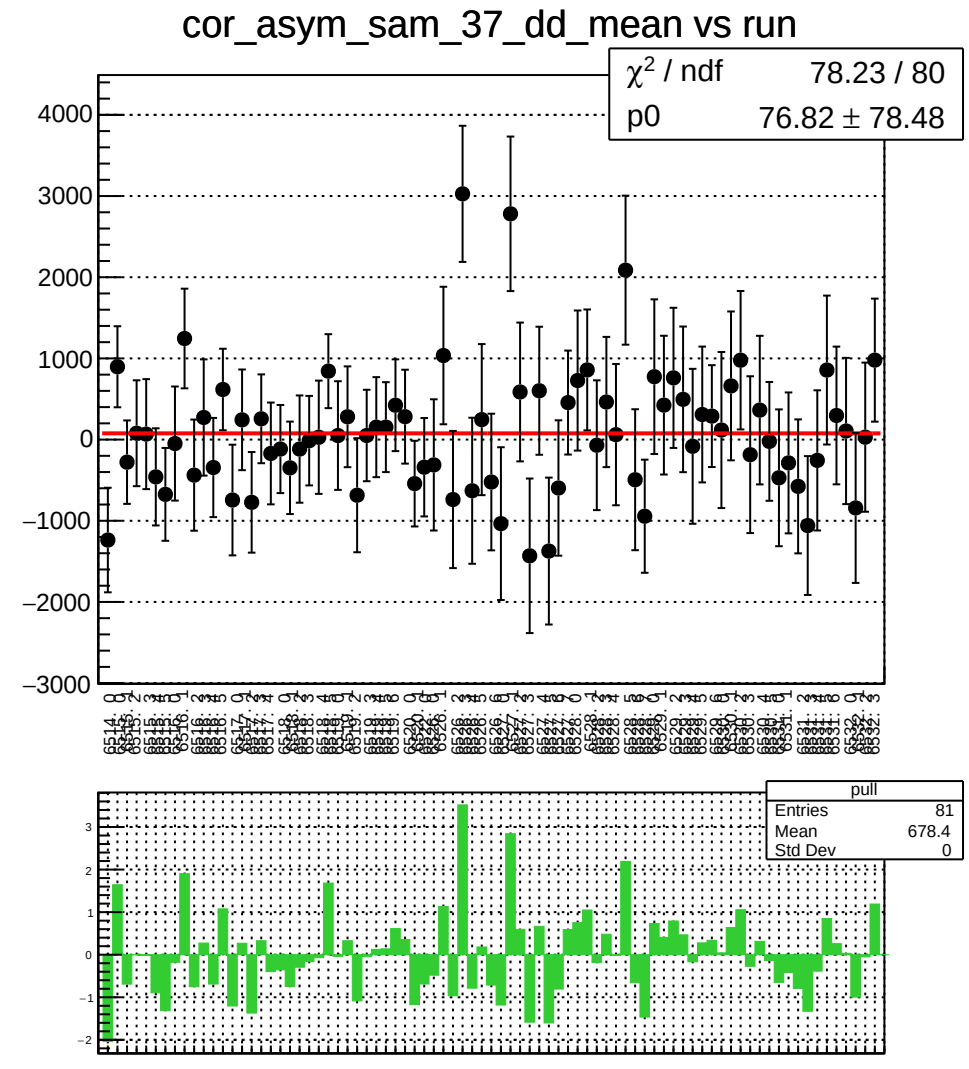

reg_asym_sam_37_dd_mean vs run
χ² / ndf 78.23 / 80
p0 76.82 ± 78.48
pull
Entries 81
Mean 678.7
Std Dev 0
pull1D
Entries 81
Mean 0.003528
Std Dev 0.9828

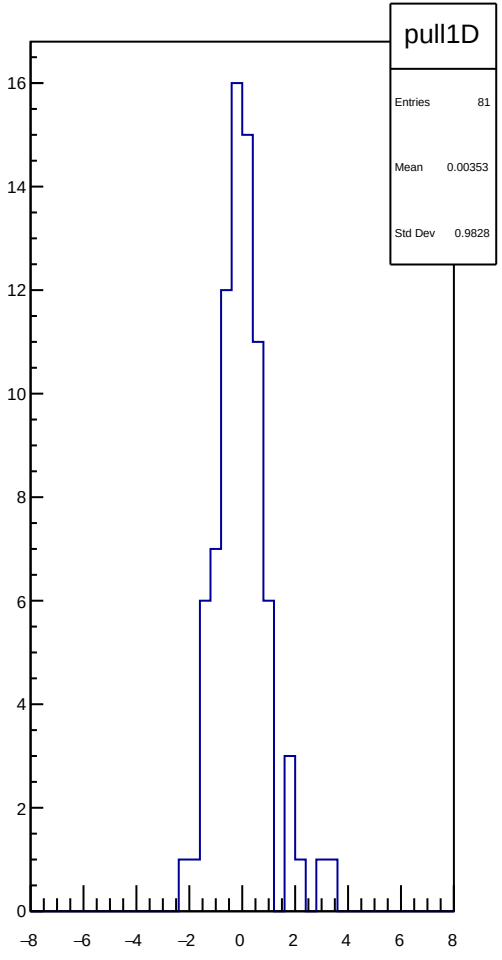

reg_asym_sam_37_dd_rms vs run
χ² / ndf 5.844e+04 / 80
p0 68.02 ± 0.05549
90
80
70
60
50

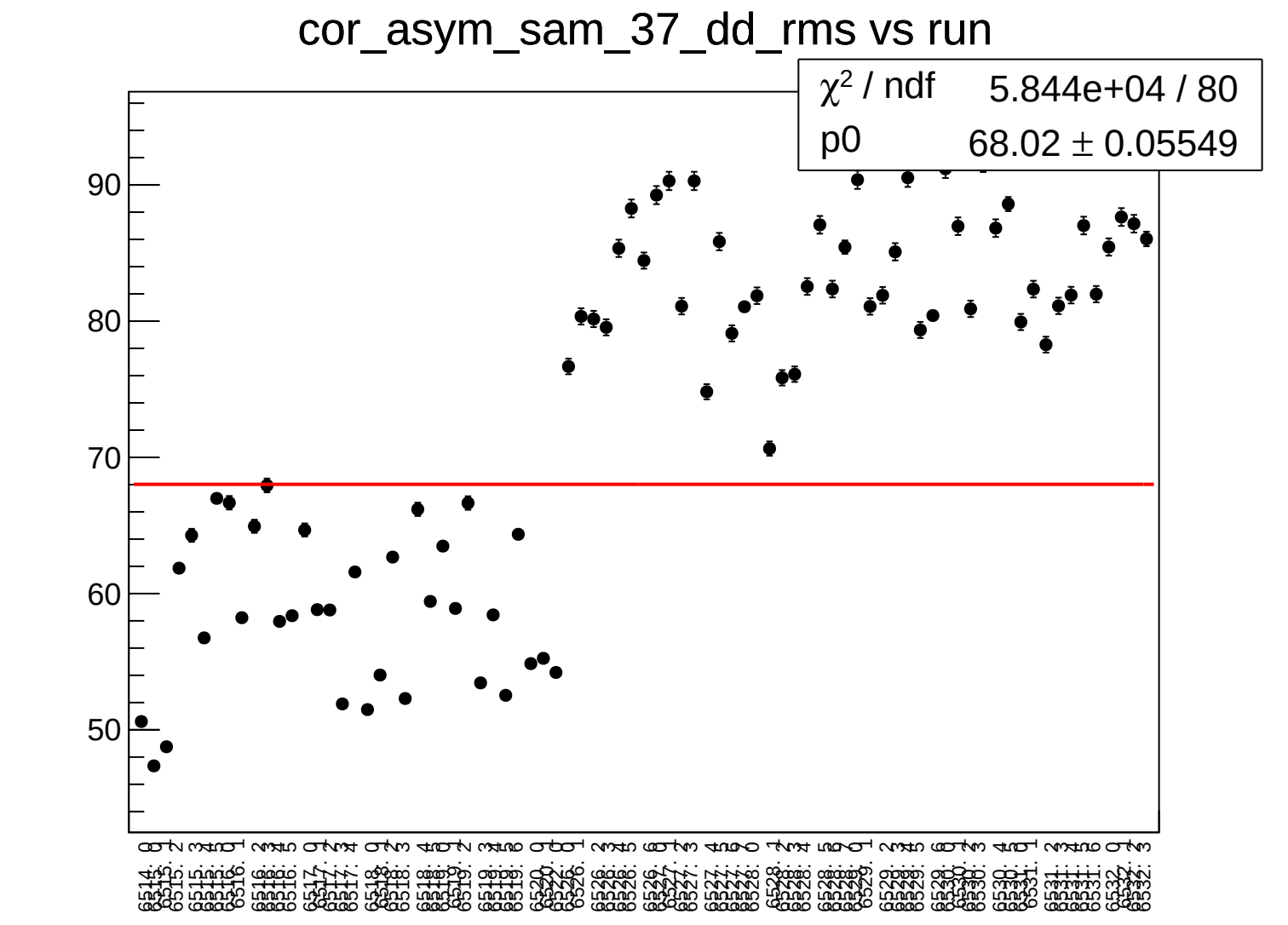

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 71.88 / 80
p0 47.38 ± 537.3
pull
Entries 81
Mean 477.7
Std Dev 0

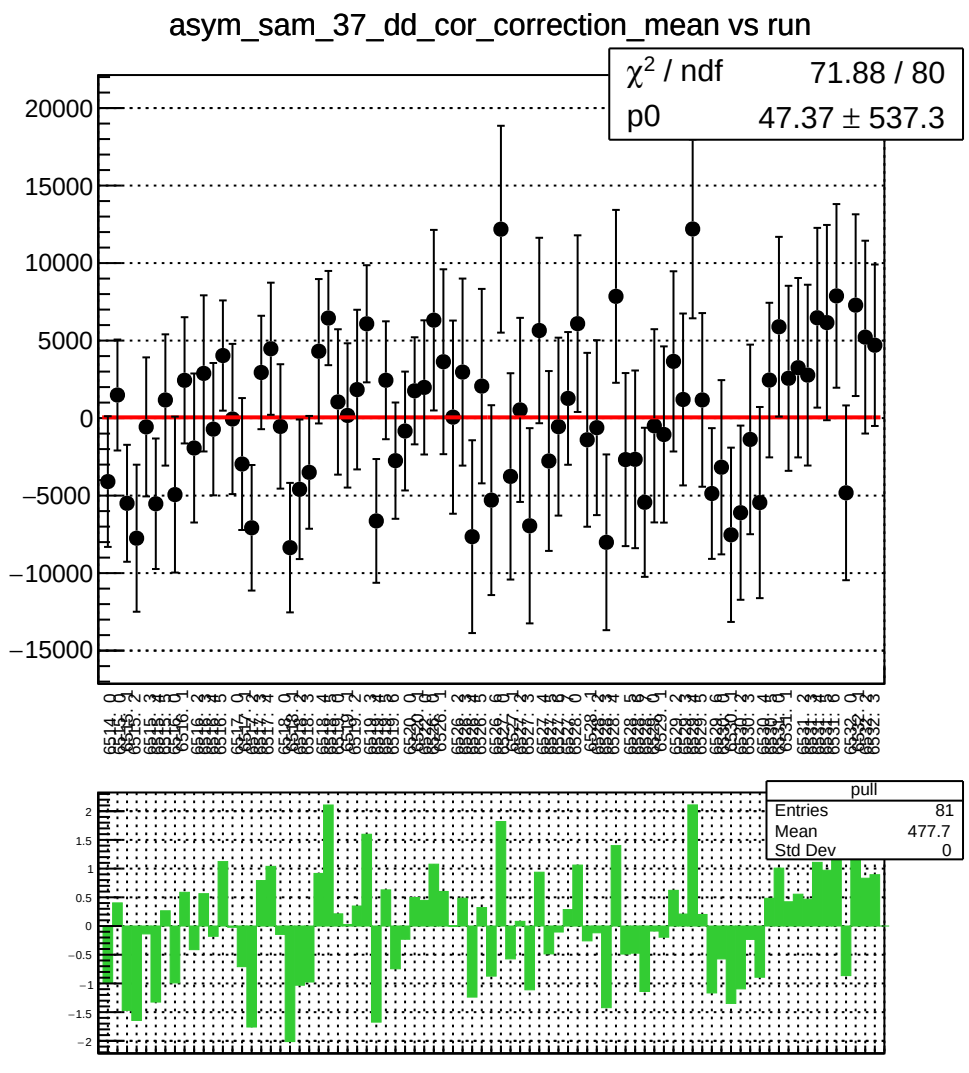

pull1D
Entries 81
Mean 0.01098
Std Dev 0.942

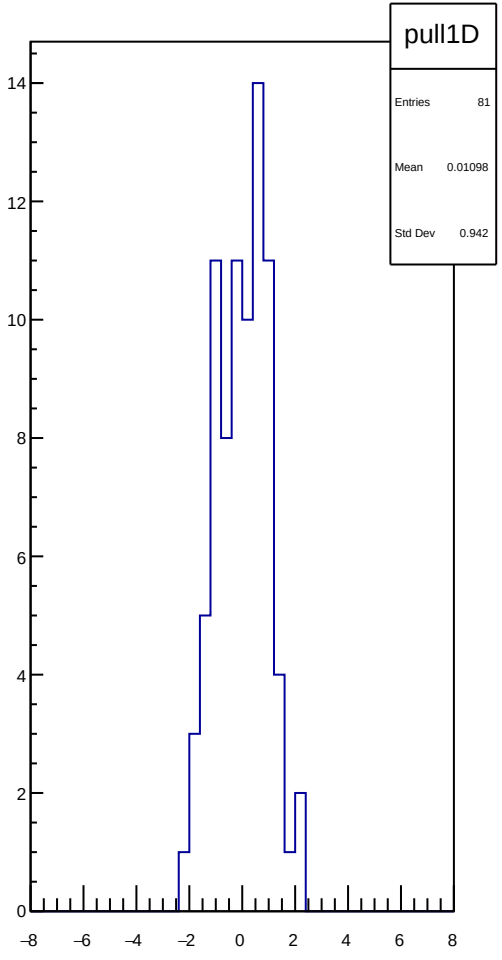

asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 5.352e+04 / 80
p0 466.4 ± 0.3799
650
600
550
500
450
400
350
300

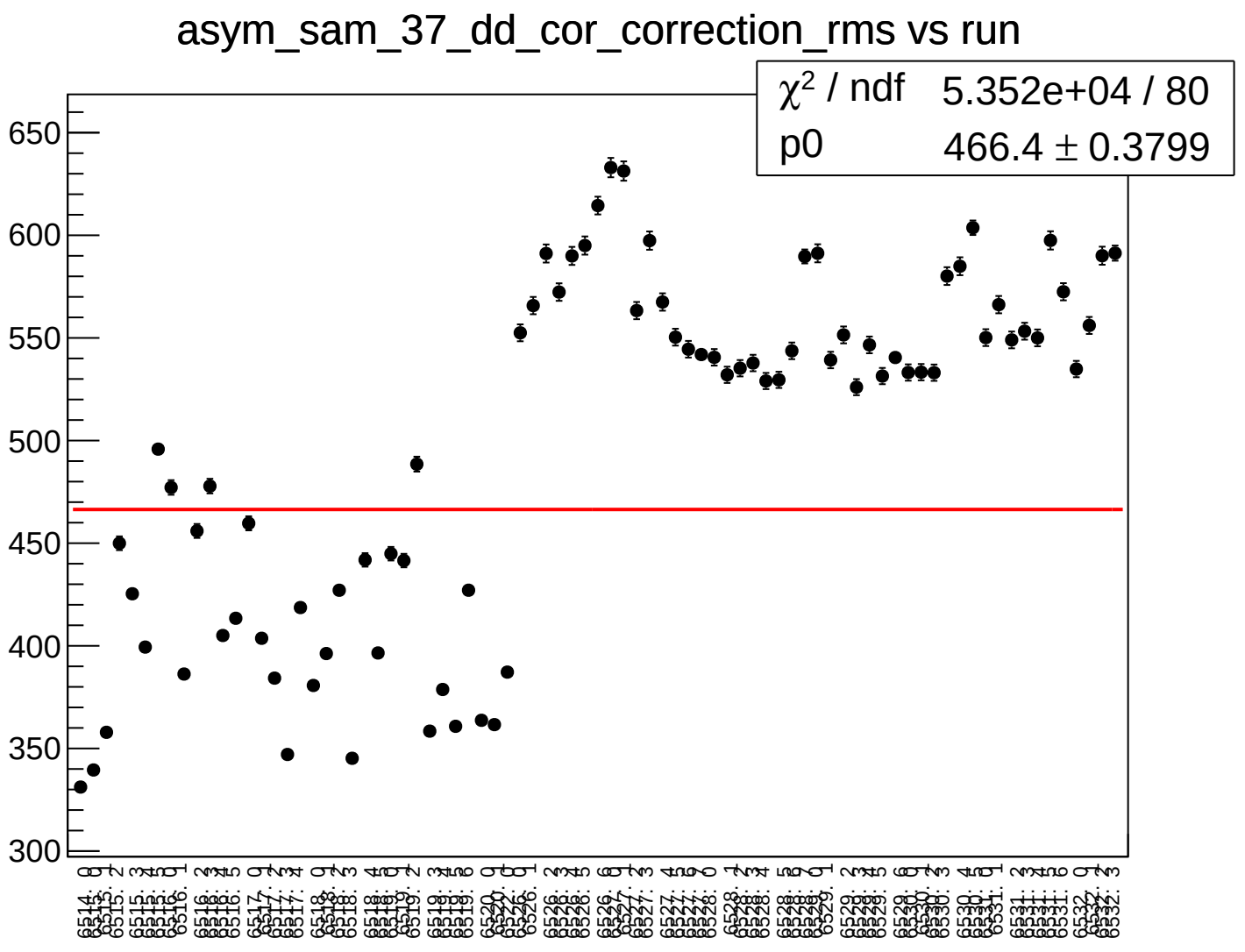

cor_asym_sam_37_dd_mean vs run
χ² / ndf 78.23 / 80
p0 76.82 ± 78.48
pull
Entries 81
Mean 678.4
Std Dev 0

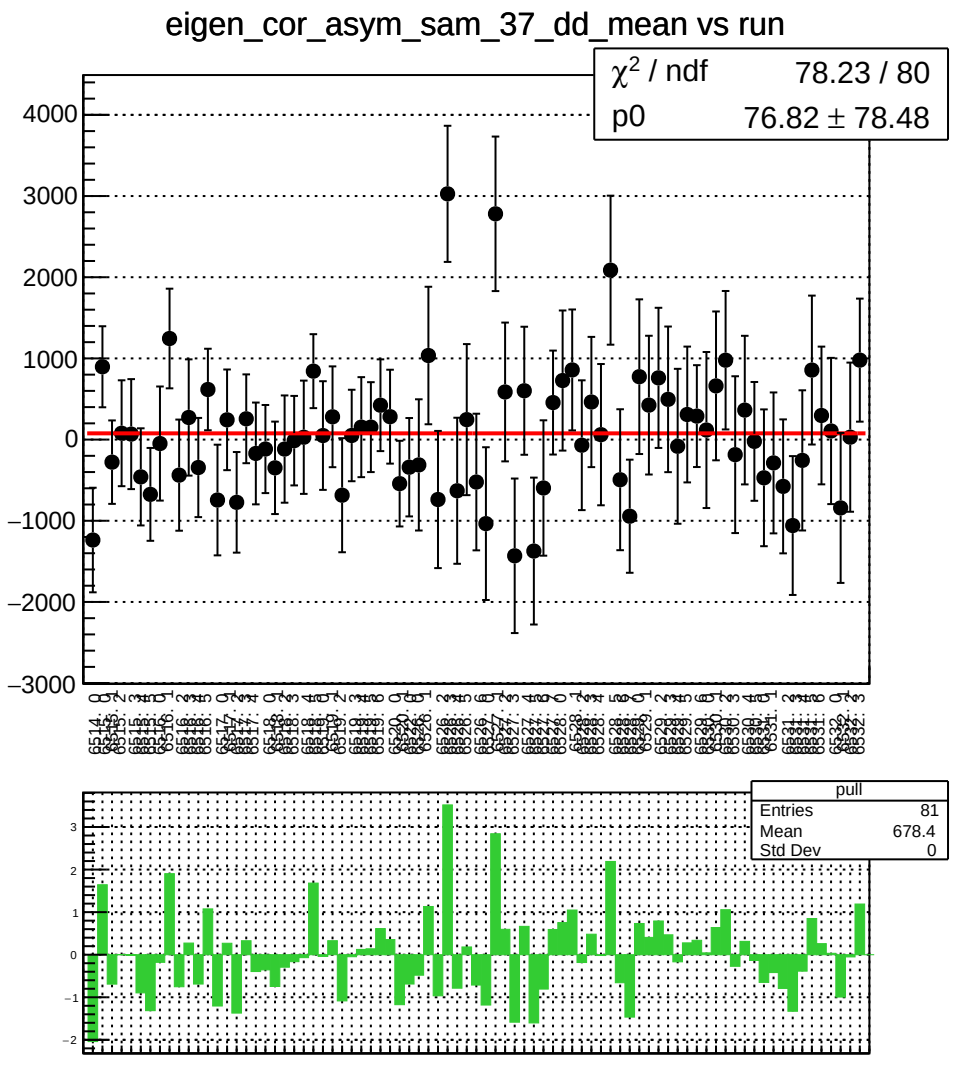

pull1D
Entries 81
Mean 0.00353
Std Dev 0.9828

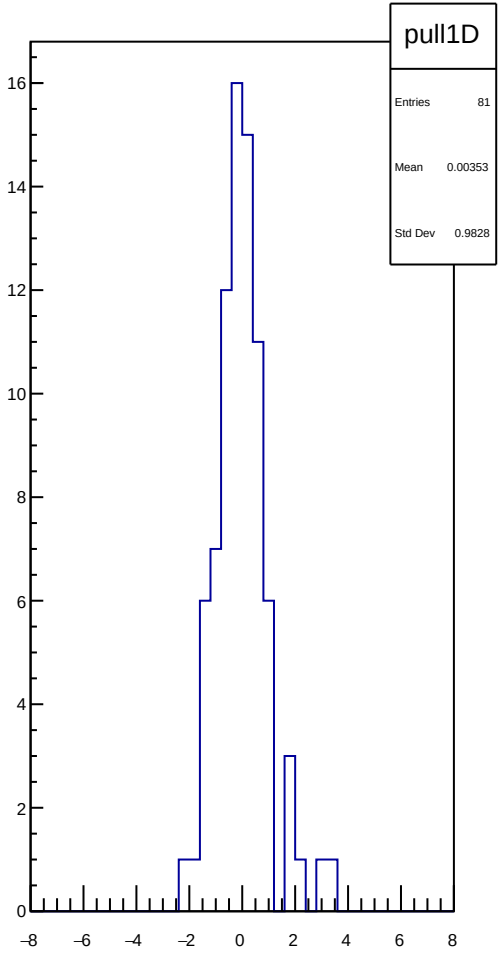

cor_asym_sam_37_dd_rms vs run
χ² / ndf 5.844e+04 / 80
p0 68.02 ± 0.05549
90
80
70
60
50

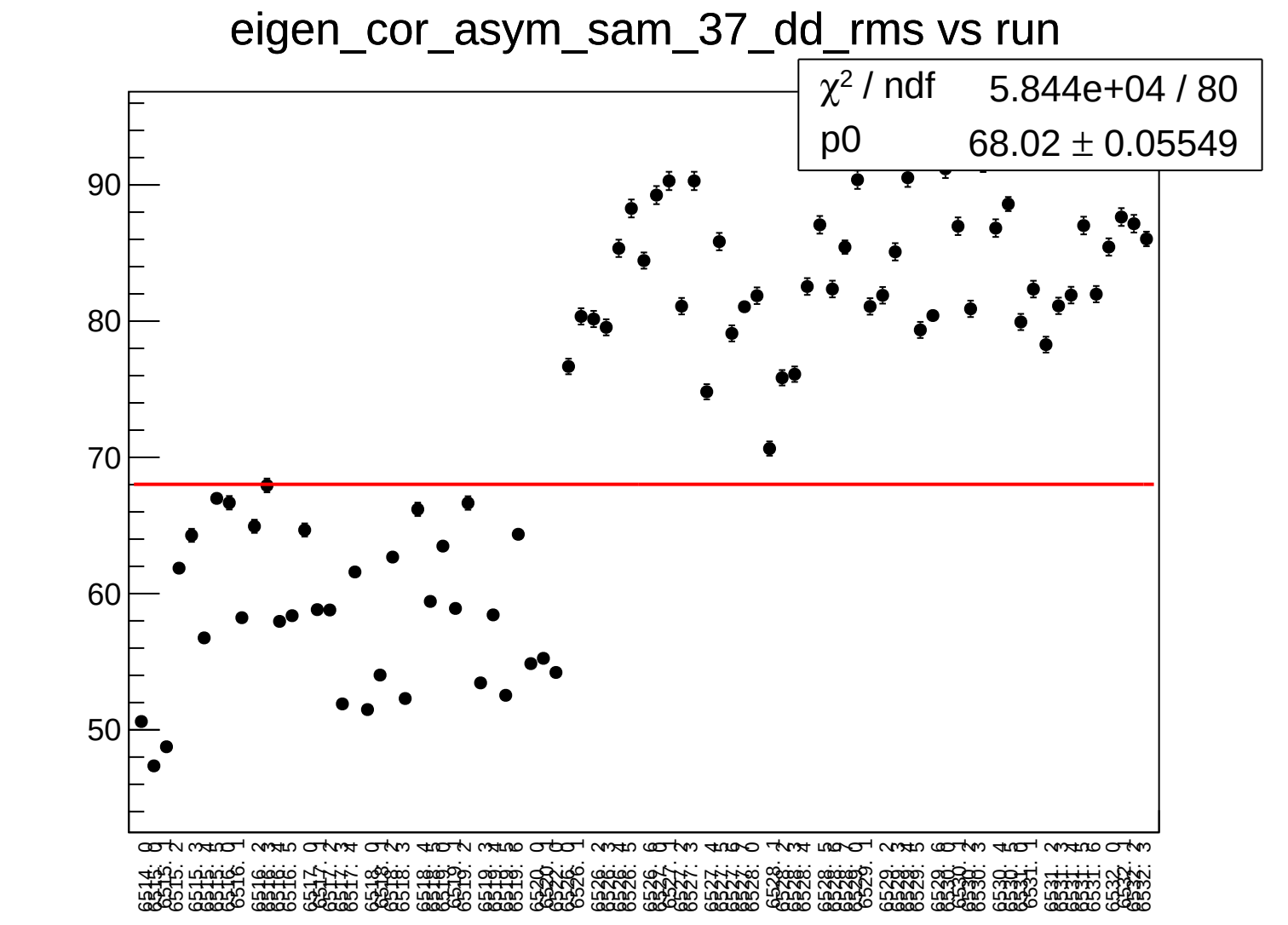

asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 71.88 / 80
p0 47.37 ± 537.3
pull
Entries 81
Mean 477.7
Std Dev 0

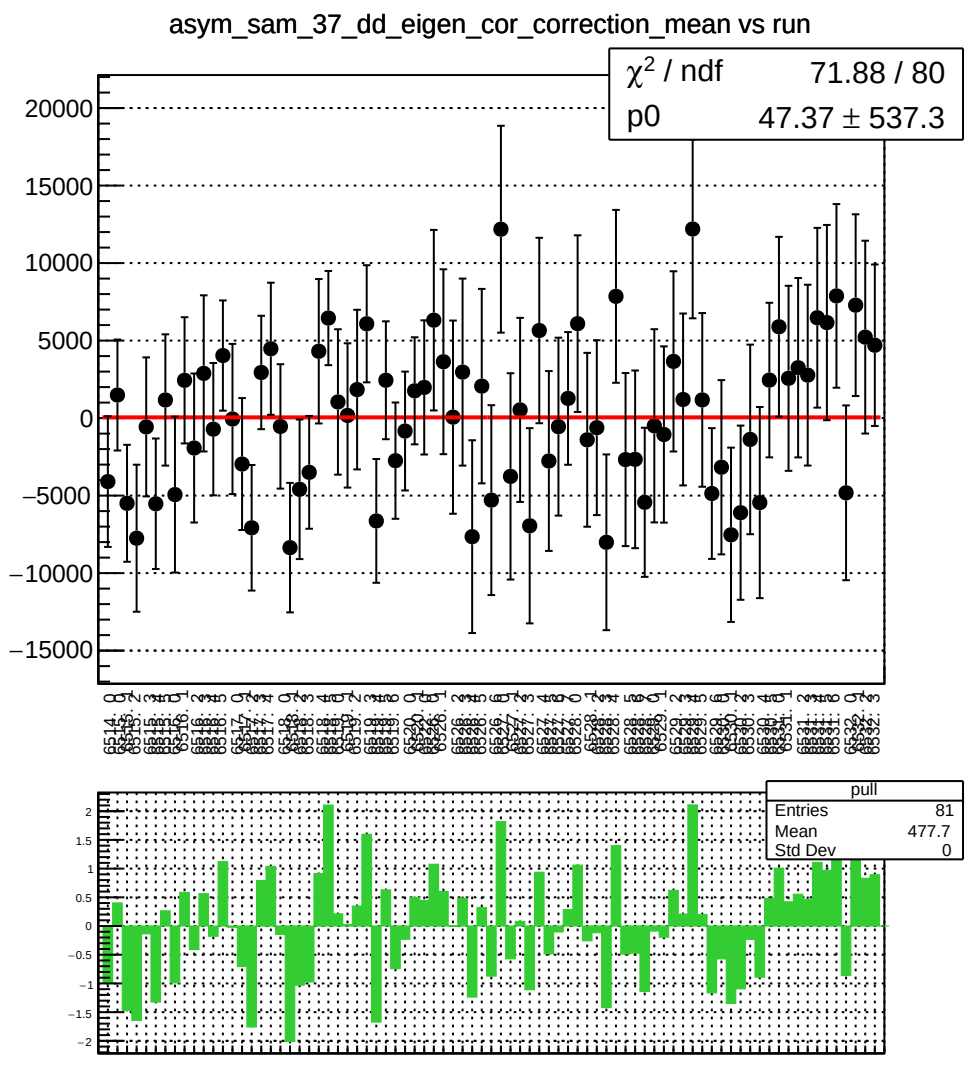

pull1D
Entries 81
Mean 0.01098
Std Dev 0.942

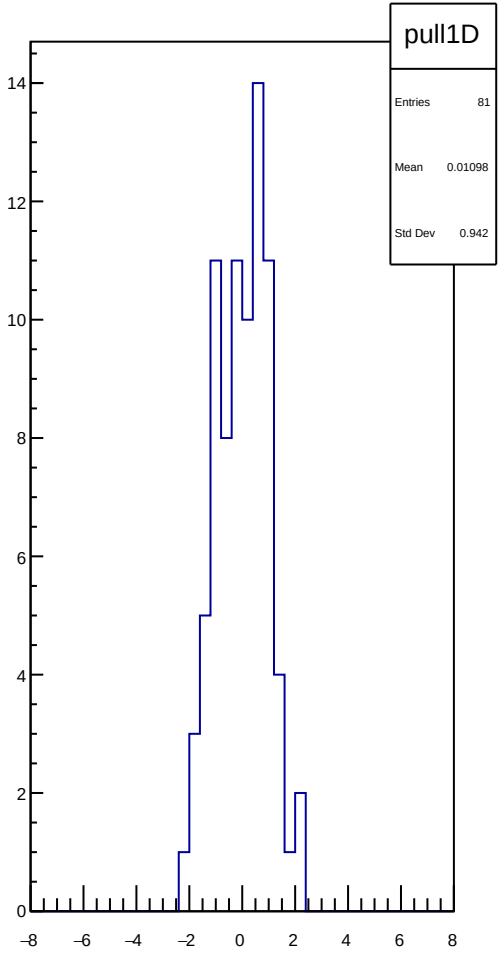

asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 5.352e+04 / 80
p0 466.4 ± 0.3799
650
600
550
500
450
400
350
300

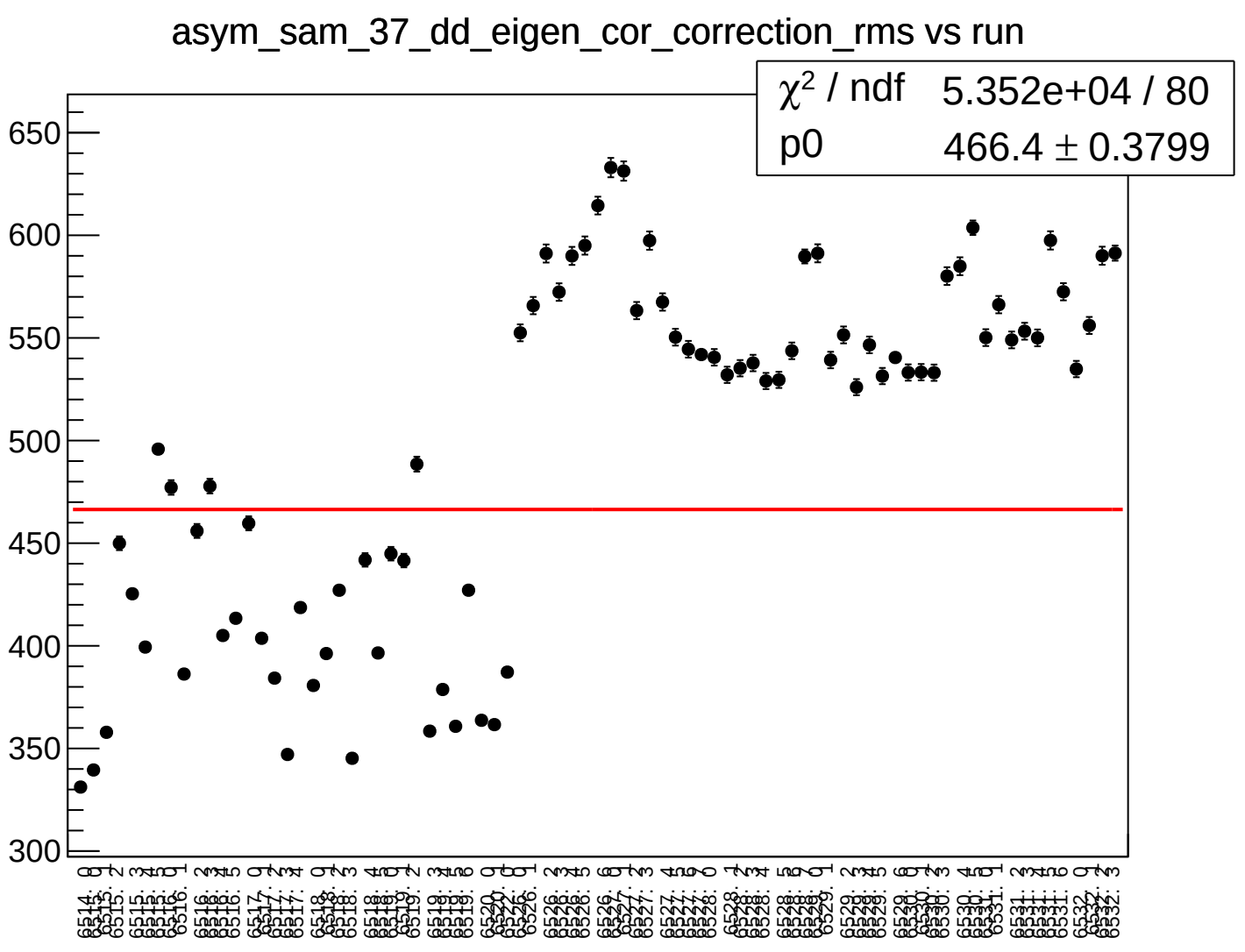

eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 78.23 / 80
p0 76.82 ± 78.48
pull
Entries 81
Mean 678.4
Std Dev 0

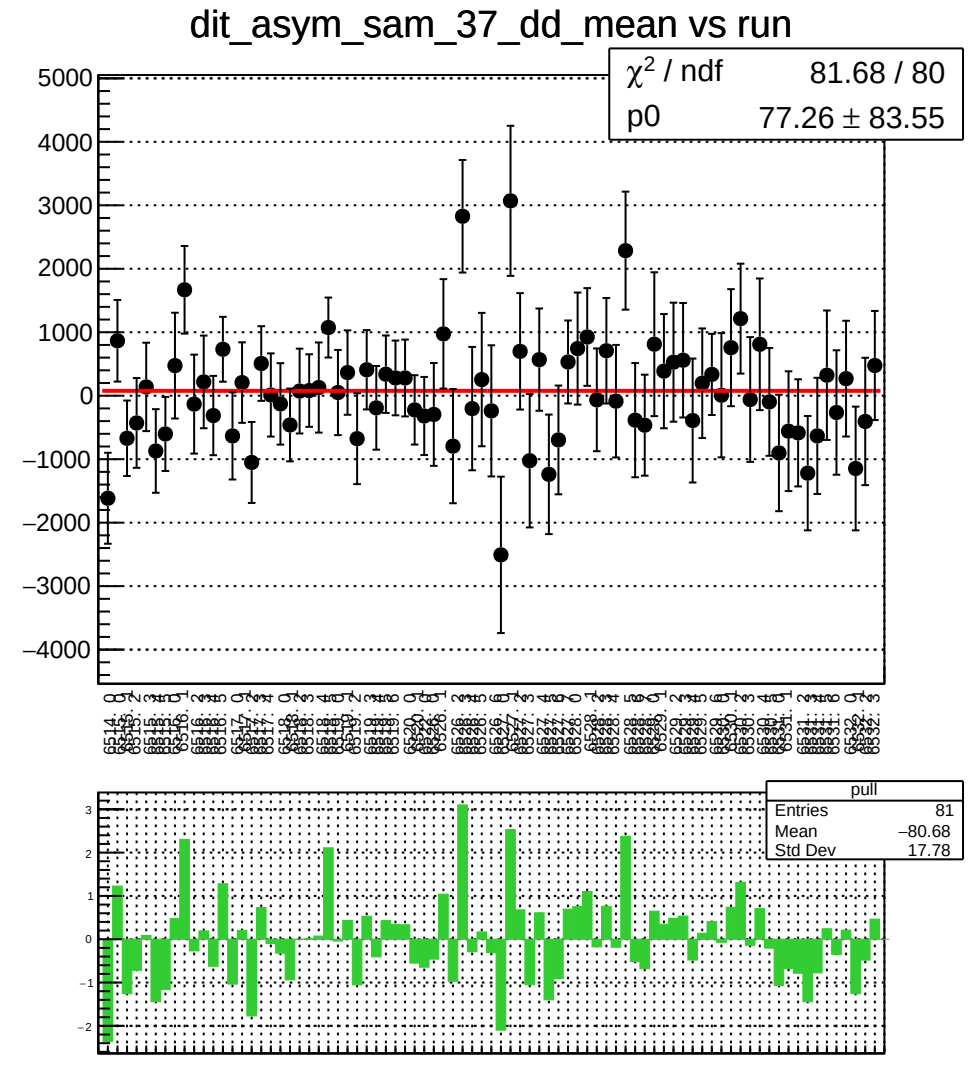

pull1D
Entries 81
Mean 0.00353
Std Dev 0.9828

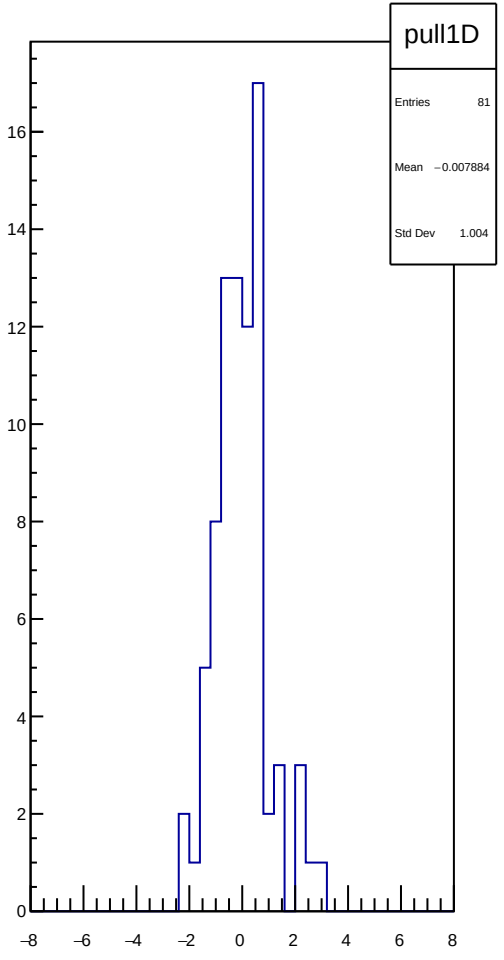

eigen_cor_asym_sam_37_dd_rms vs run
χ² / ndf 5.844e+04 / 80
p0 68.02 ± 0.05549
90
80
70
60
50

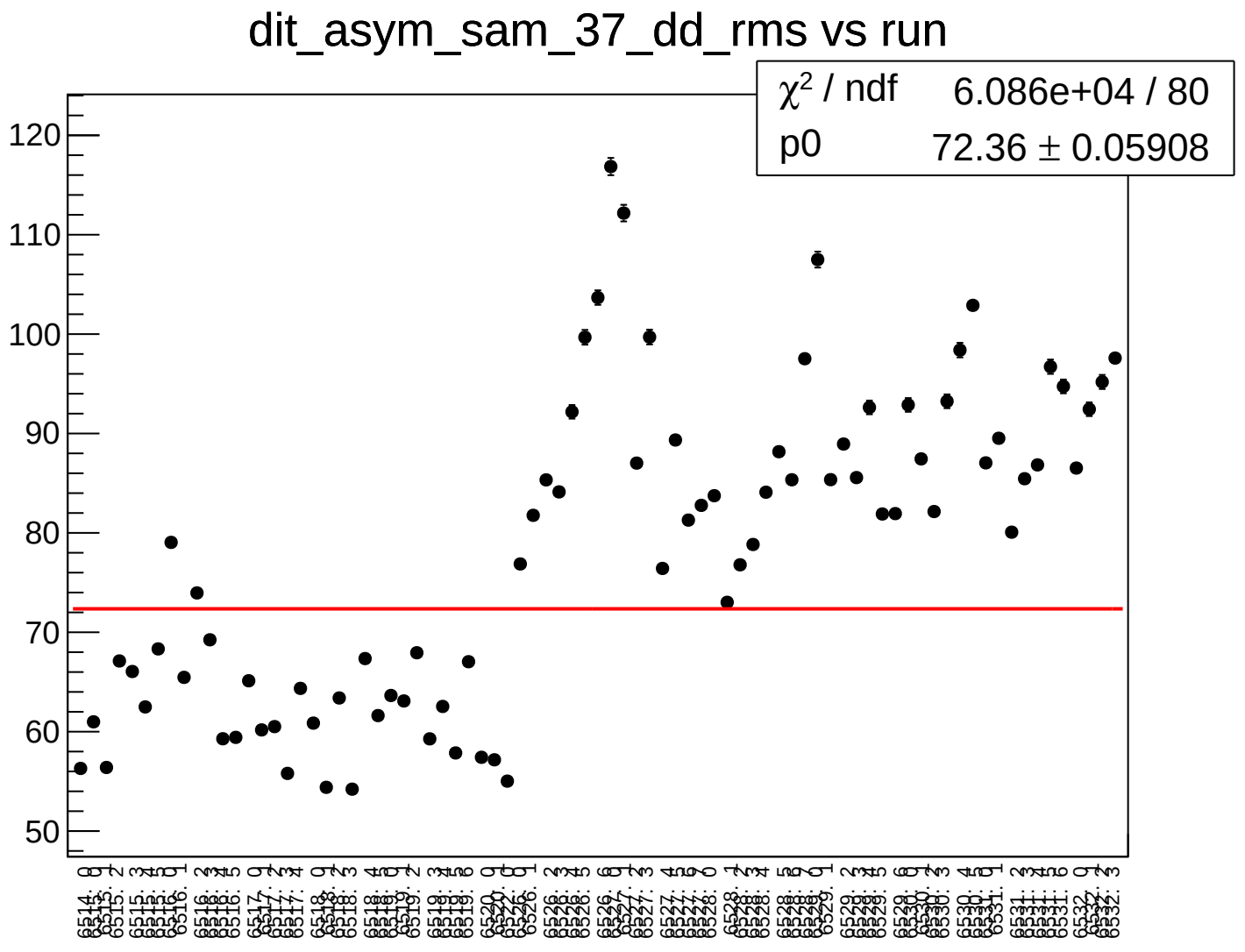

asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 71.88 / 80
p0 47.37 ± 537.3
pull
Entries 81
Mean 477.7
Std Dev 0

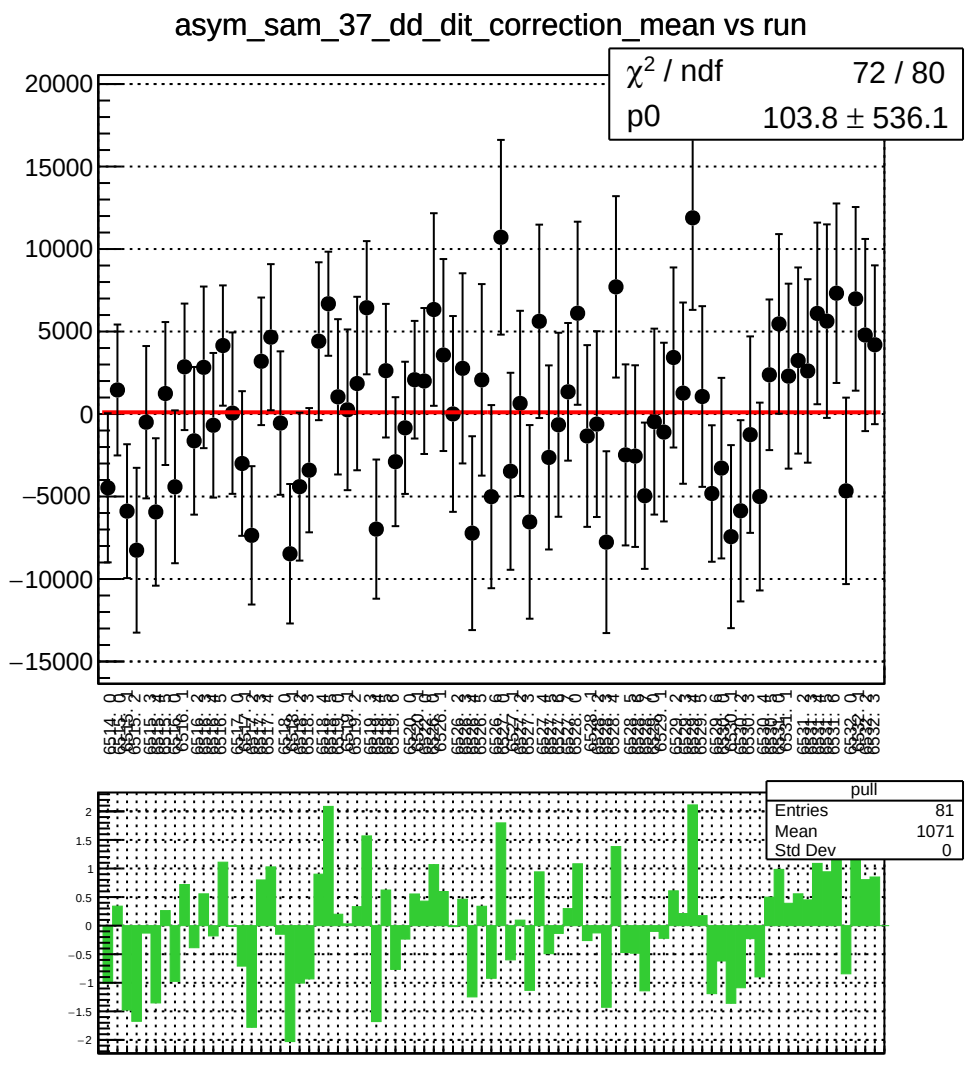

pull1D
Entries 81
Mean 0.01098
Std Dev 0.942

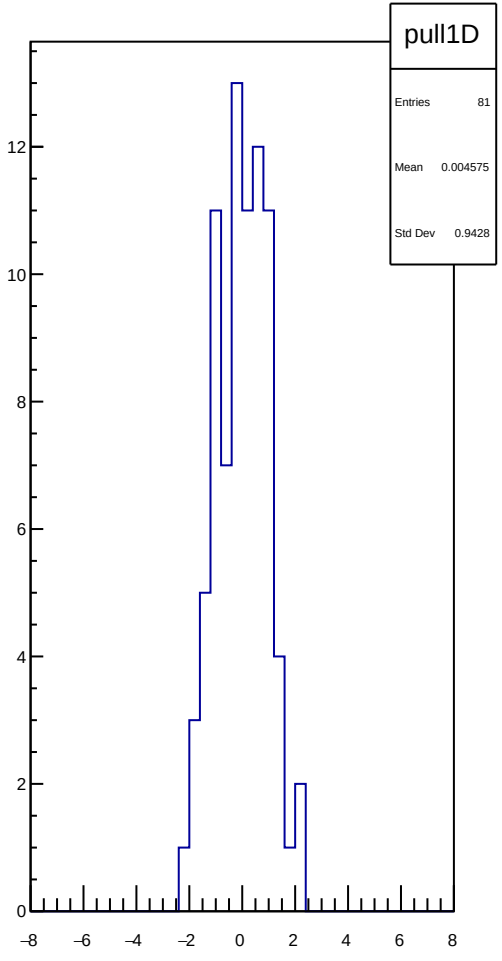

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 5.352e+04 / 80
p0 466.4 ± 0.3799
650
600
550
500
450
400
350
300

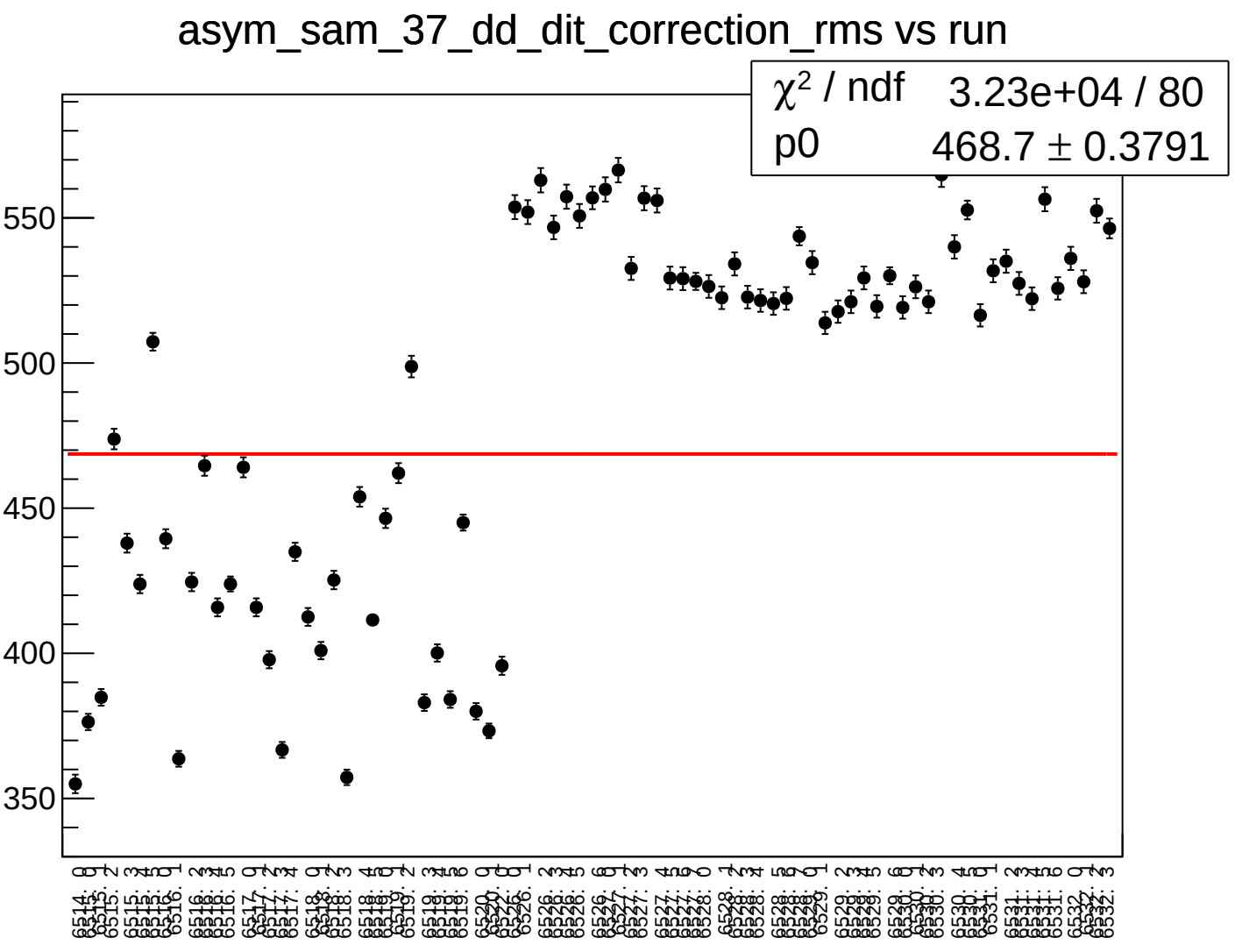

dit_asym_sam_37_dd_mean vs run
χ² / ndf 81.68 / 80
p0 77.26 ± 83.55
pull
Entries 81
Mean −80.68
Std Dev 17.78

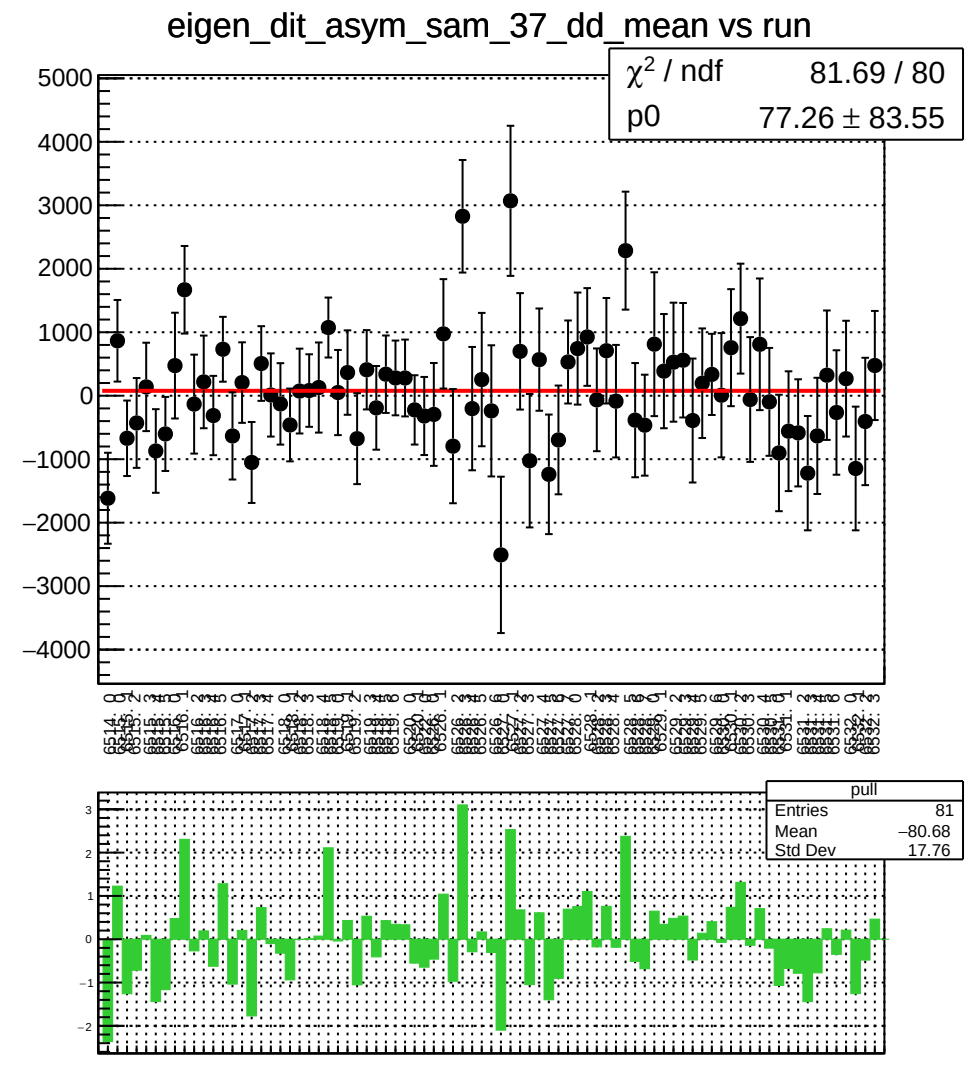

pull1D
Entries 81
Mean −0.007884
Std Dev 1.004

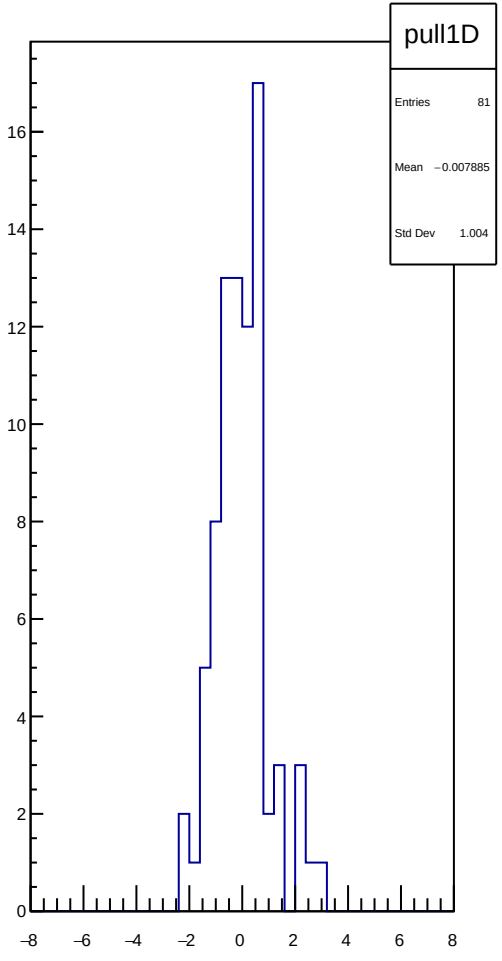

dit_asym_sam_37_dd_rms vs run
χ^2 / ndf 6.086e+04 / 80
p0 72.36 ± 0.05908
120
110
100
90
80
70
60
50

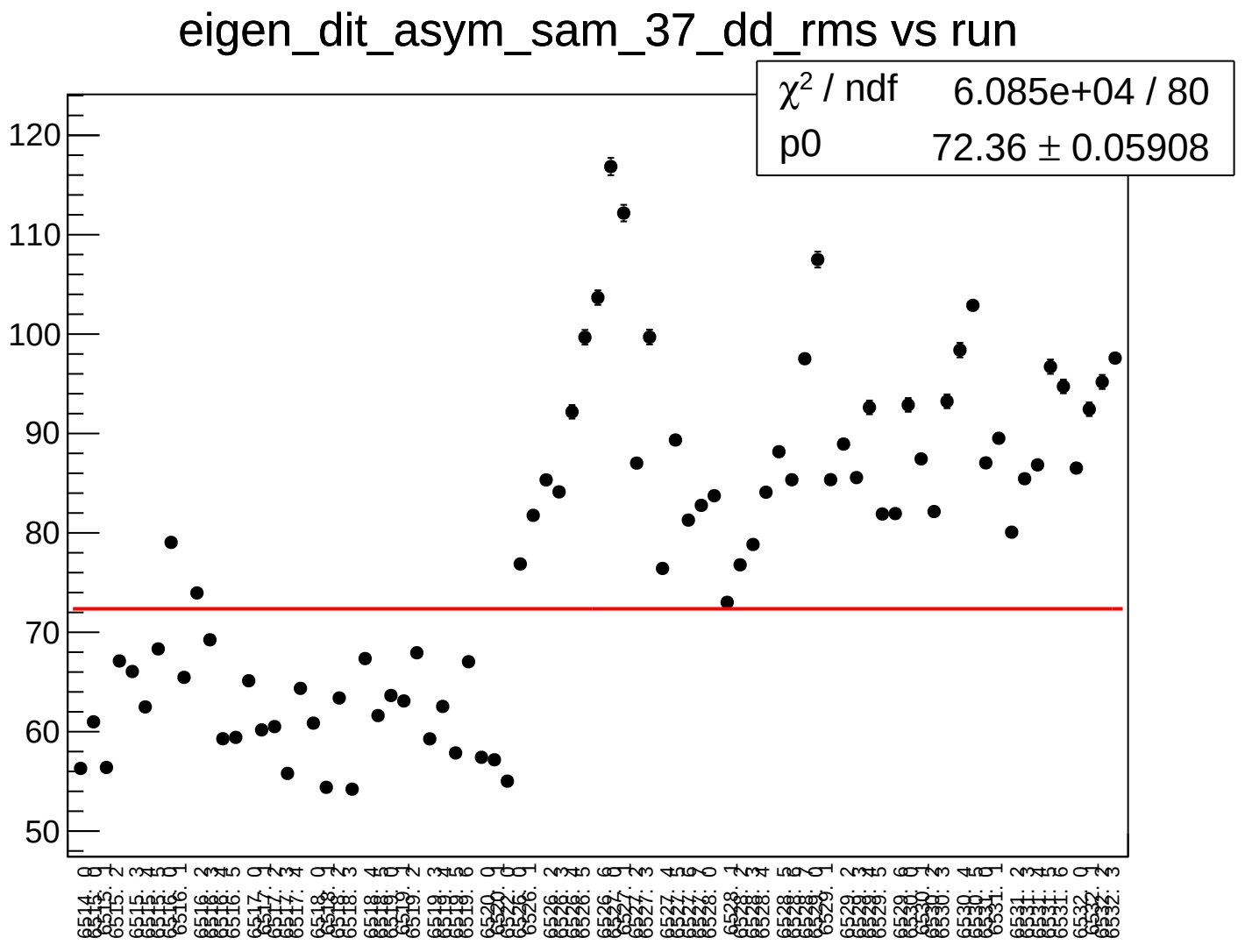

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 72 / 80
p0 103.8 ± 536.1
pull
Entries 81
Mean 1071
Std Dev 0

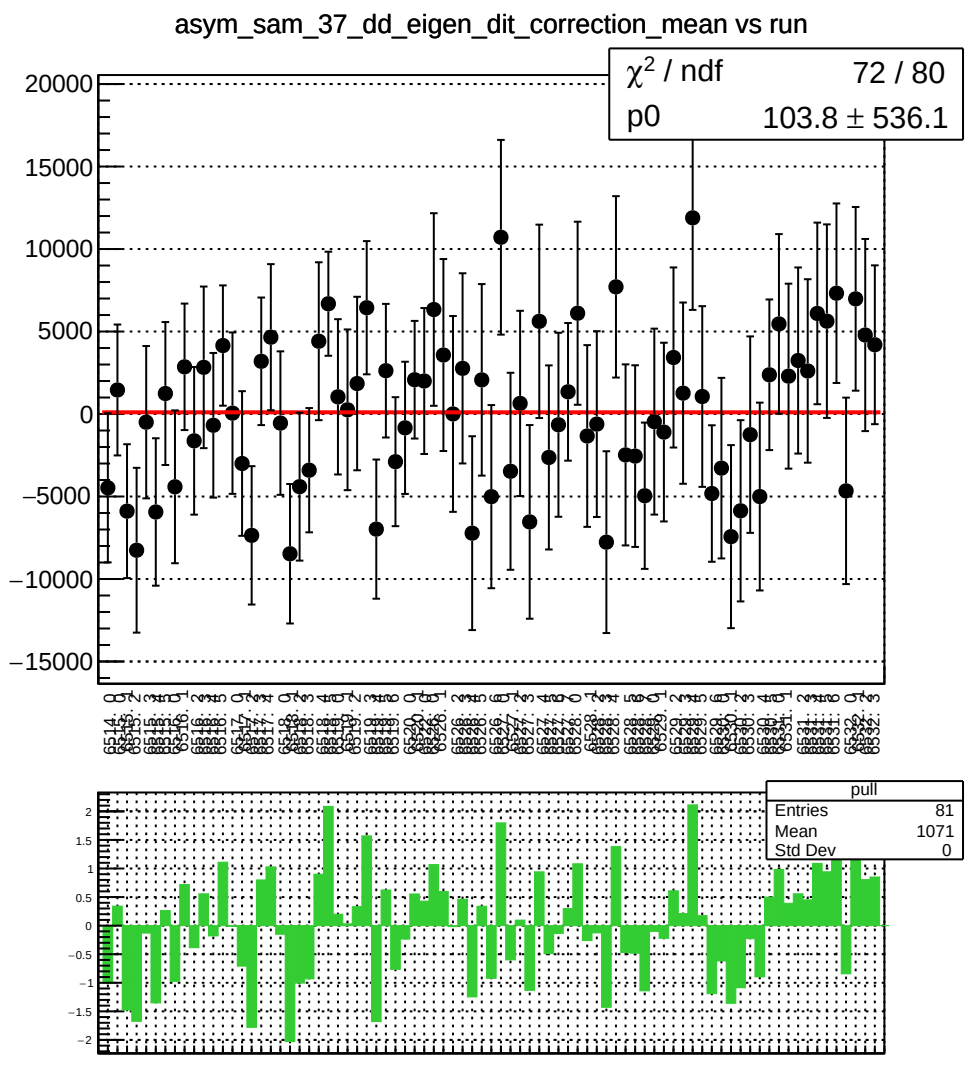

pull1D
Entries 81
Mean 0.004575
Std Dev 0.9428

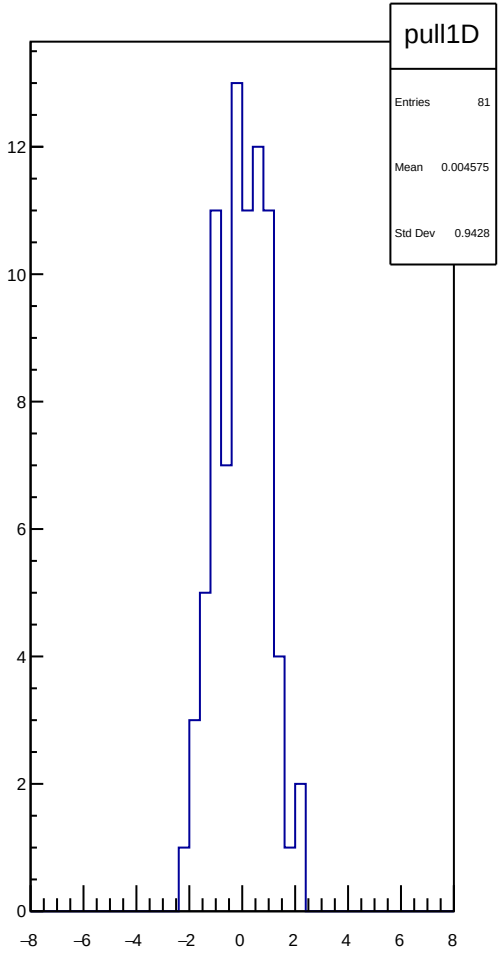

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 3.23e+04 / 80
p0 468.7 ± 0.3791
550
500
450
400
350

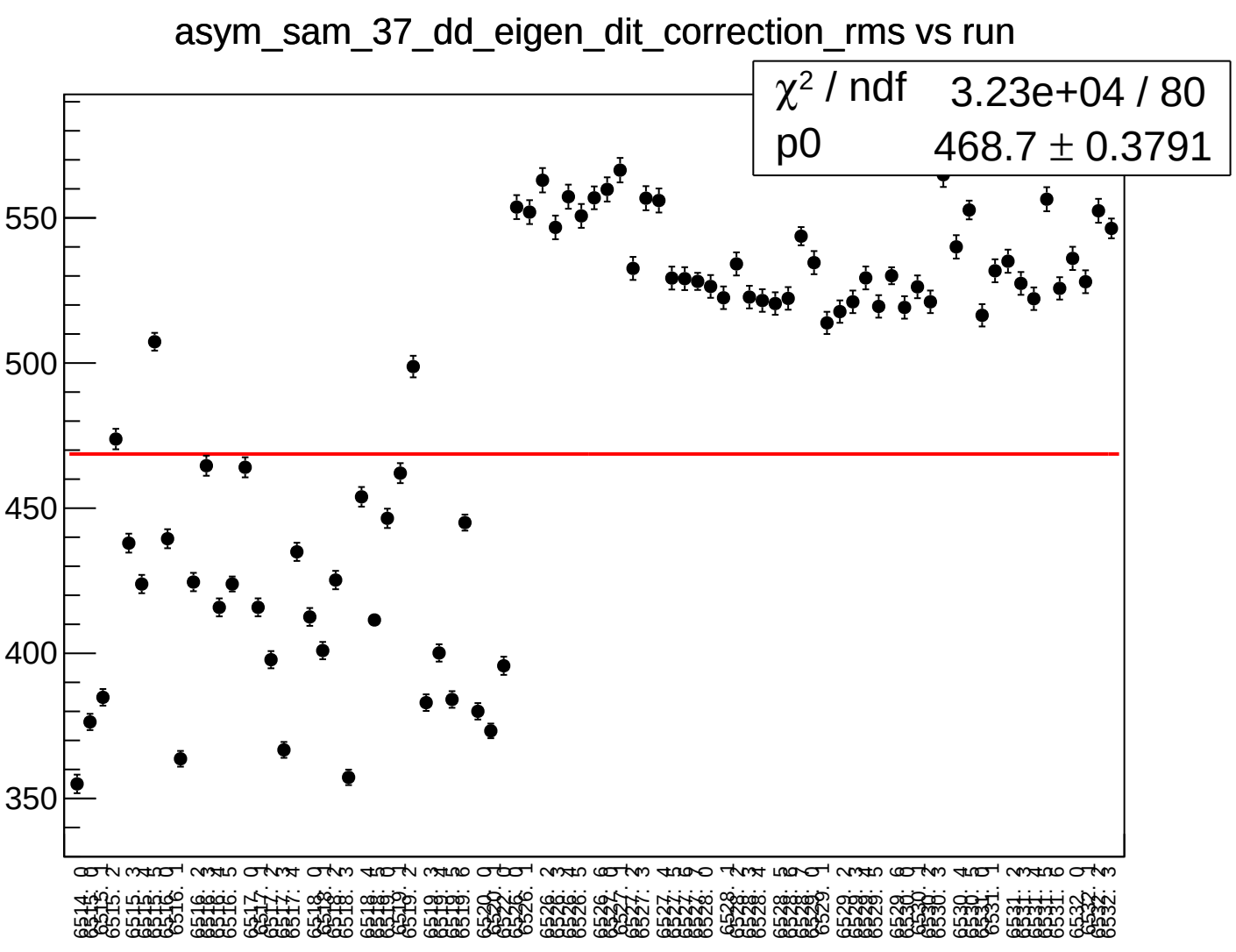

eigen_dit_asym_sam_37_dd_mean vs run
χ^2 / ndf 81.69 / 80
p0 77.26 ± 83.55
pull
Entries 81
Mean −80.68
Std Dev 17.76

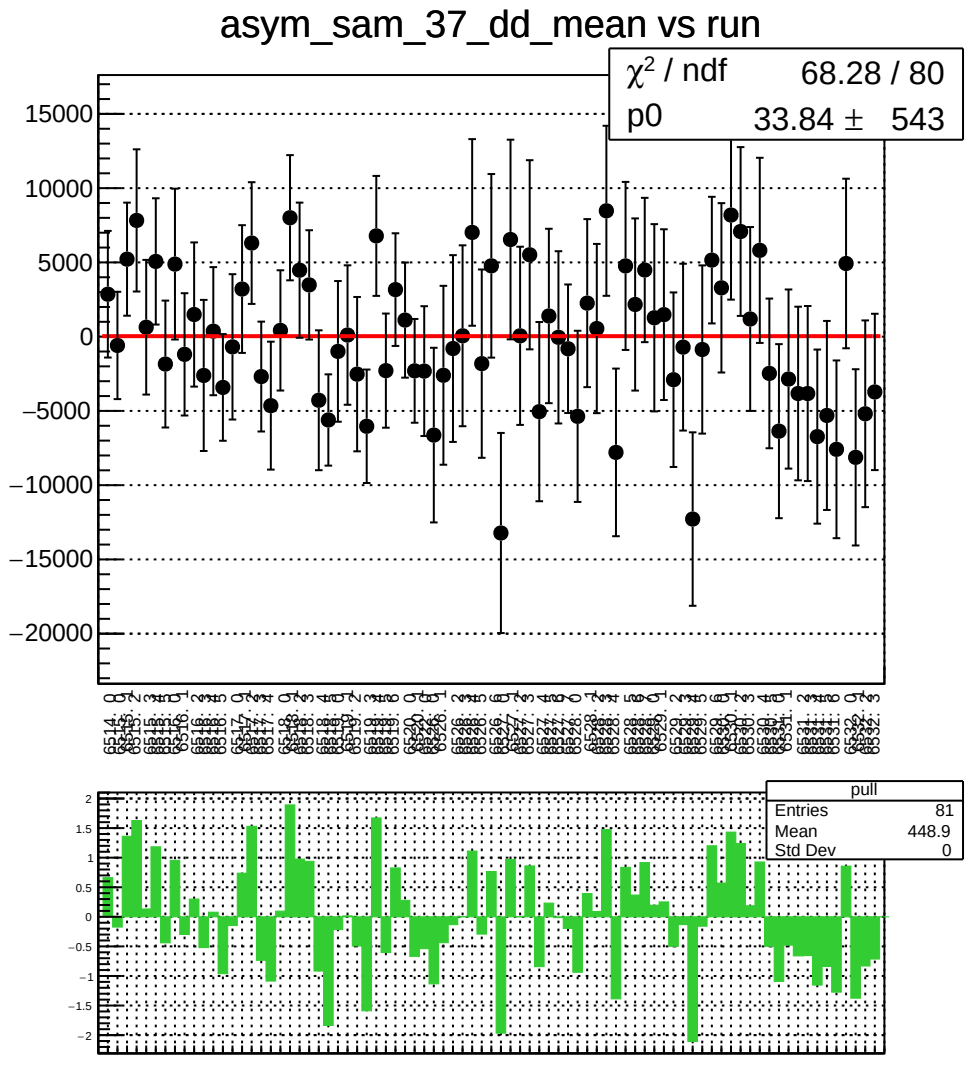

pull1D
Entries 81
Mean −0.007885
Std Dev 1.004

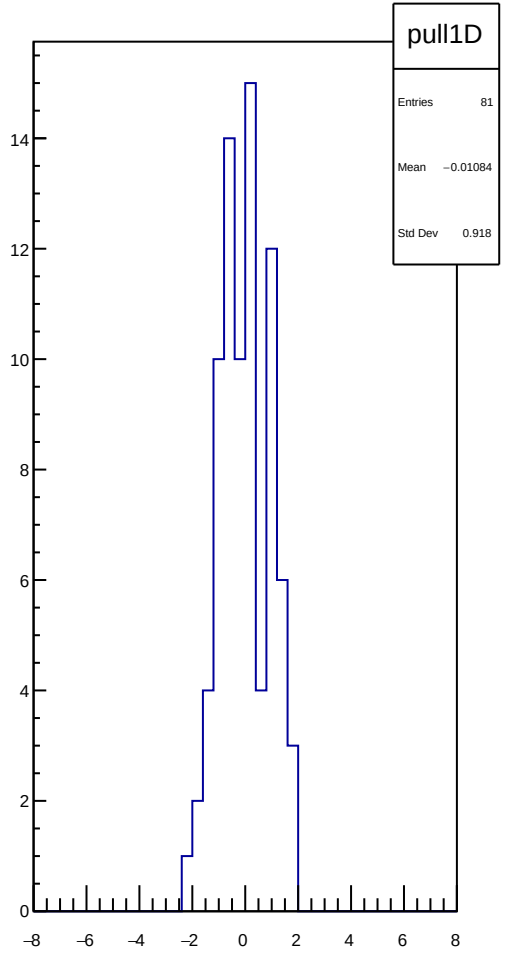

eigen_dit_asym_sam_37_dd_rms vs run
χ² / ndf 6.085e+04 / 80
p0 72.36 ± 0.05908
120
110
100
90
80
70
60
50

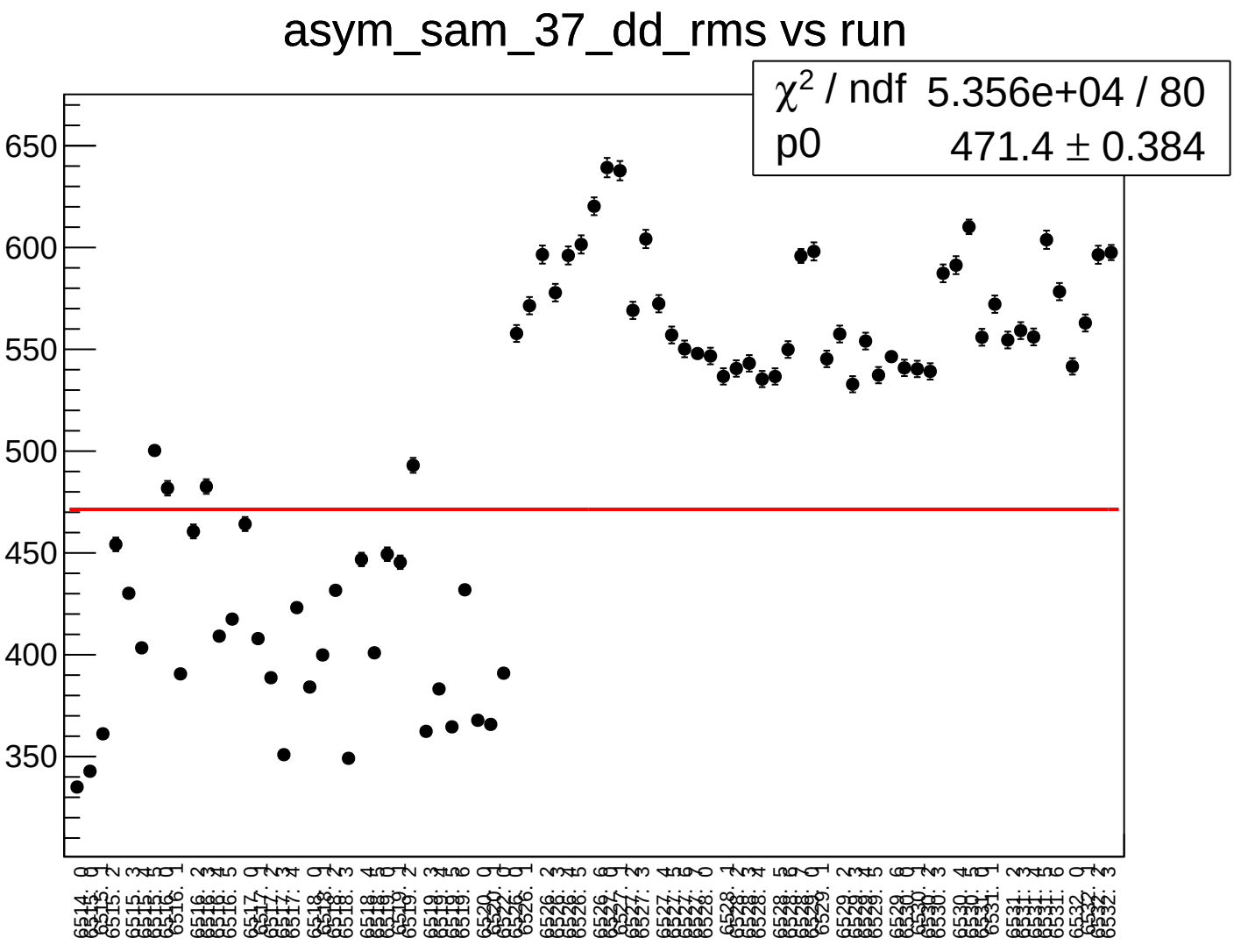

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 72 / 80
p0 103.8 ± 536.1
pull
Entries 81
Mean 1071
Std Dev 0

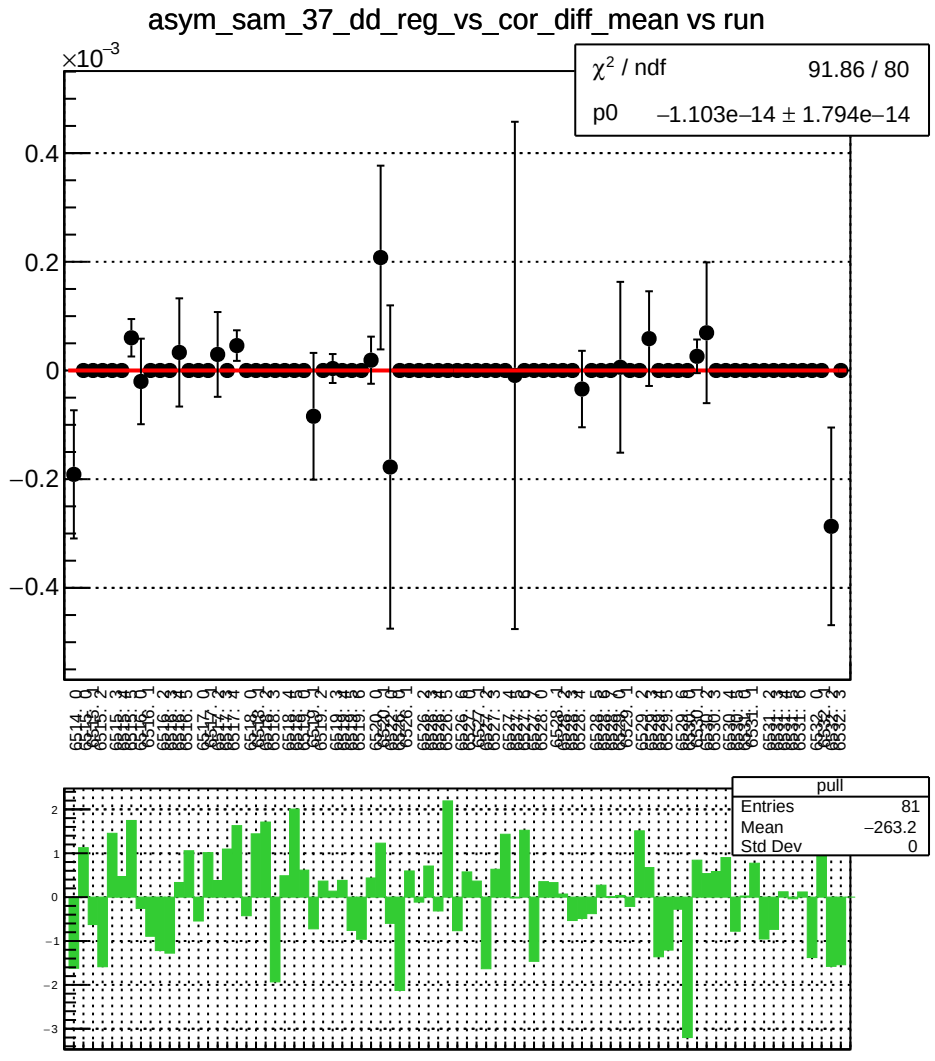

pull1D
Entries 81
Mean 0.004575
Std Dev 0.9428

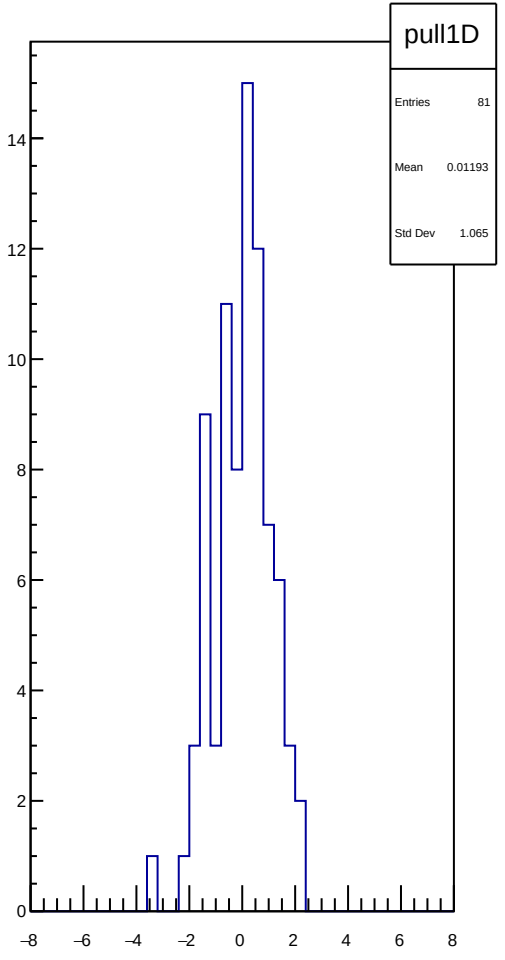

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.23e+04 / 80
p0 468.7 ± 0.3791
550
500
450
400
350

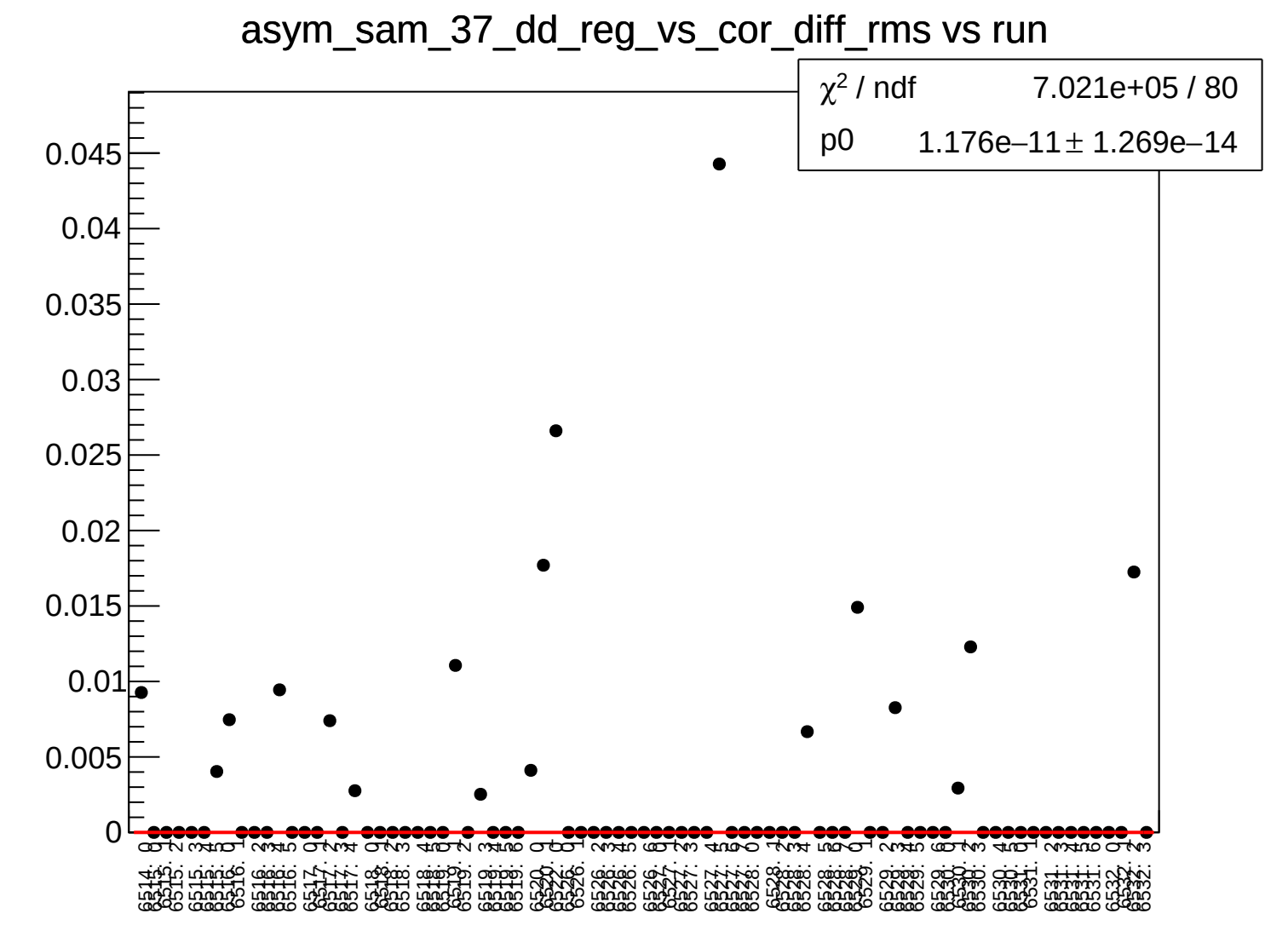

asym_sam_37_dd_mean vs run
χ² / ndf 68.28 / 80
p0 33.84 ± 543
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 81
Mean 448.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

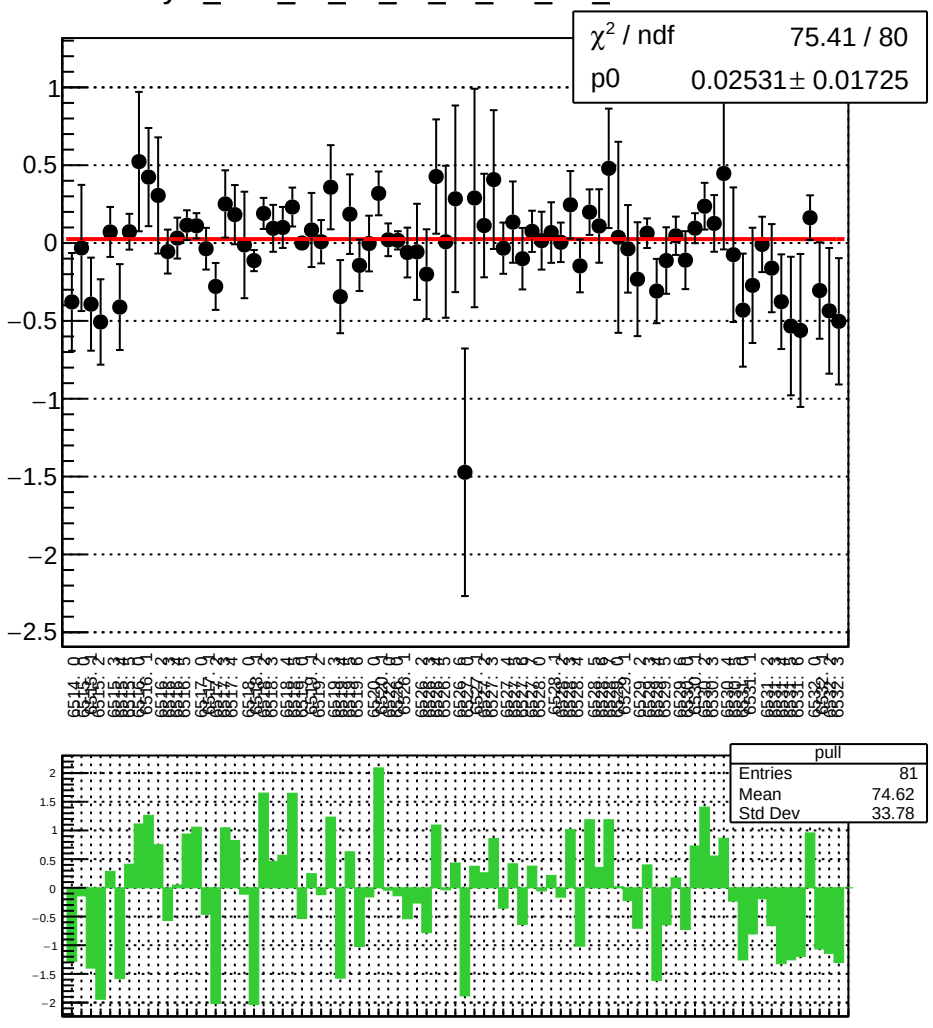

pull1D
Entries 81
Mean −0.01084
Std Dev 0.918
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

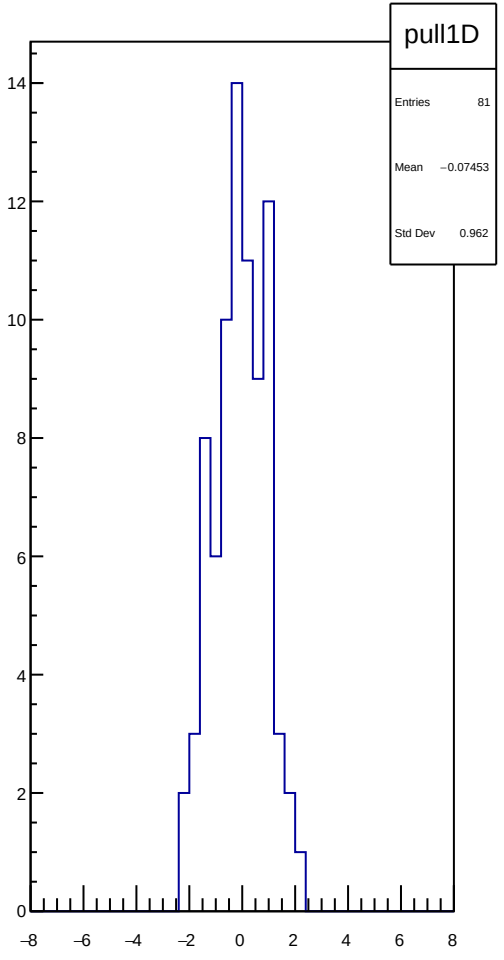

asym_sam_37_dd_rms vs run
χ² / ndf 5.356e+04 / 80
p0 471.4 ± 0.384
650
600
550
500
450
400
350

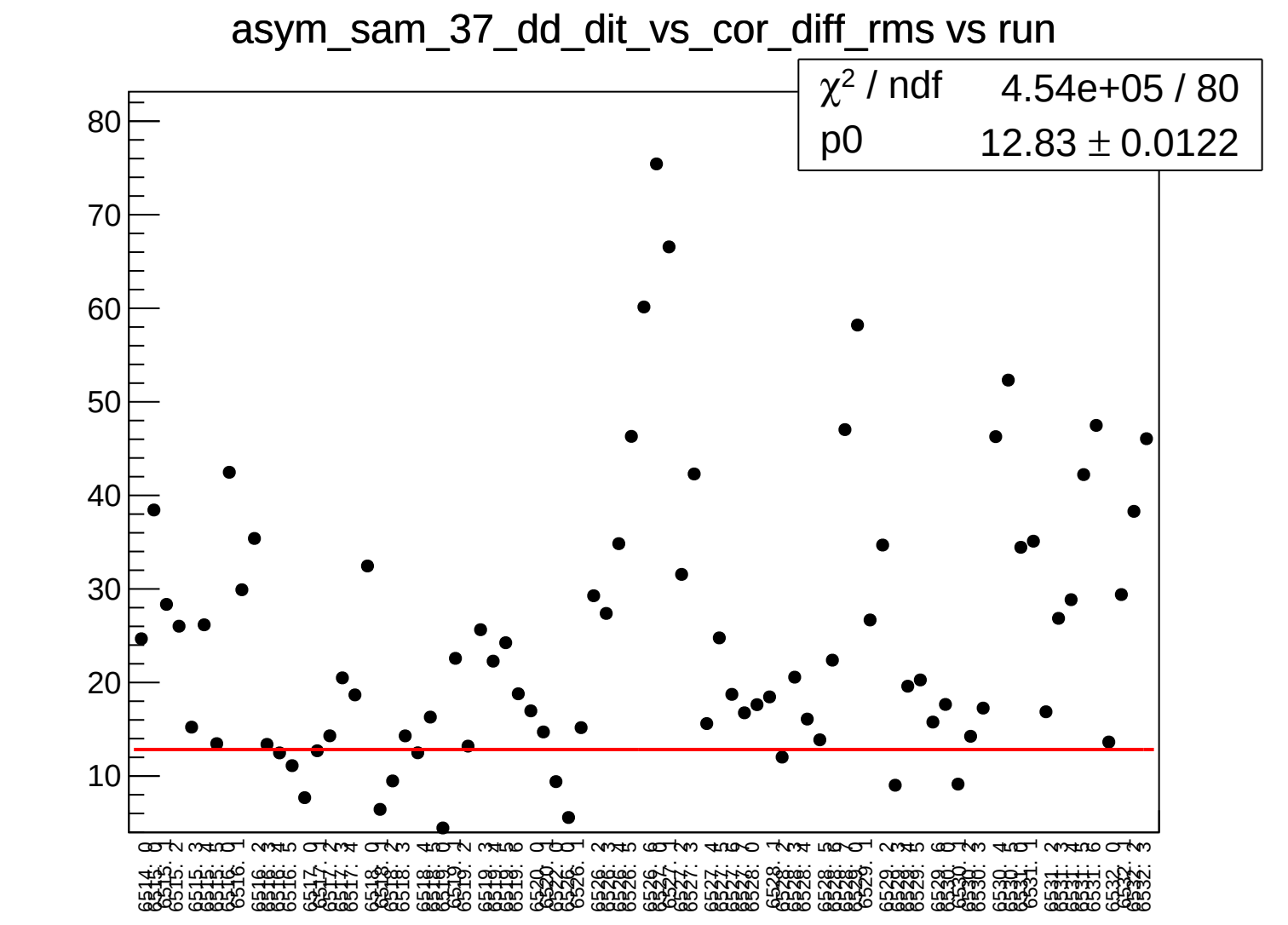

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 91.86 / 80
p0 −1.103e−14 ± 1.794e−14
0.4
0.2
0
−0.2
−0.4
pull
Entries 81
Mean −263.2
Std Dev 0
2
1
0
−1
−2
−3

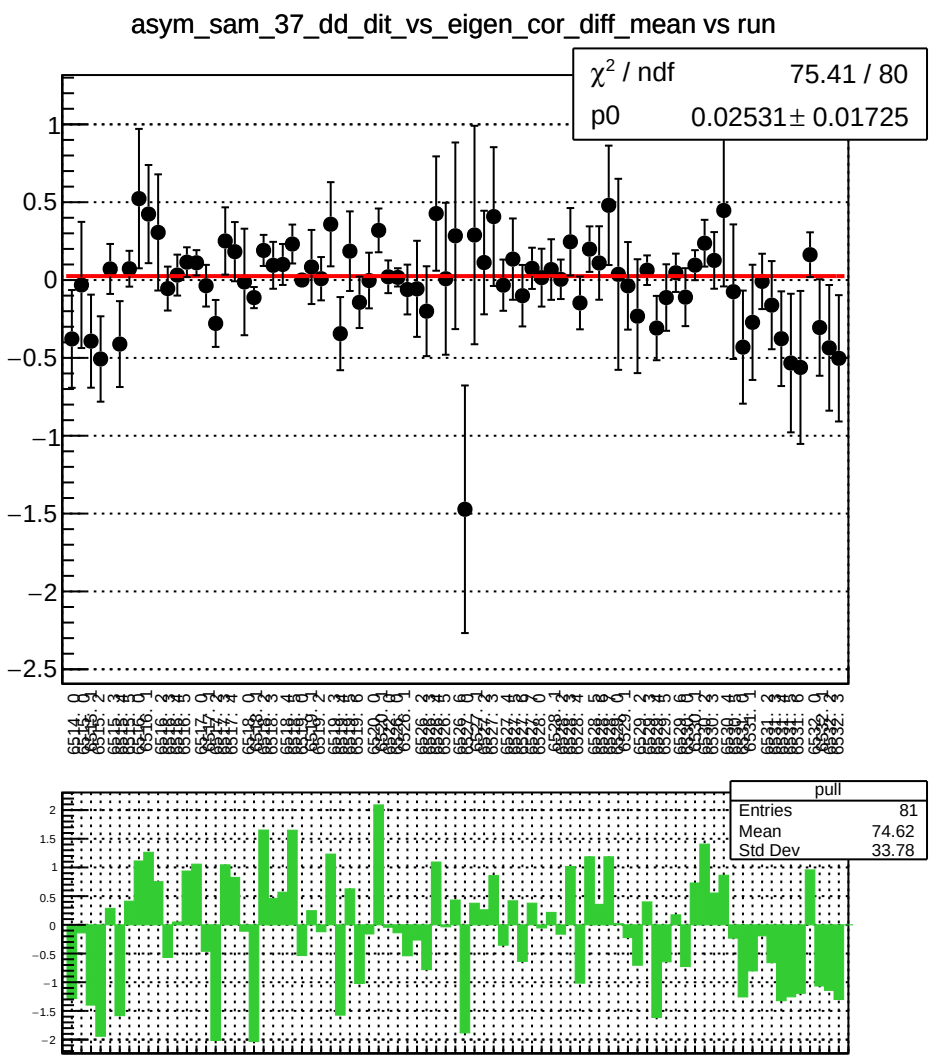

pull1D
Entries 81
Mean 0.01193
Std Dev 1.065
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

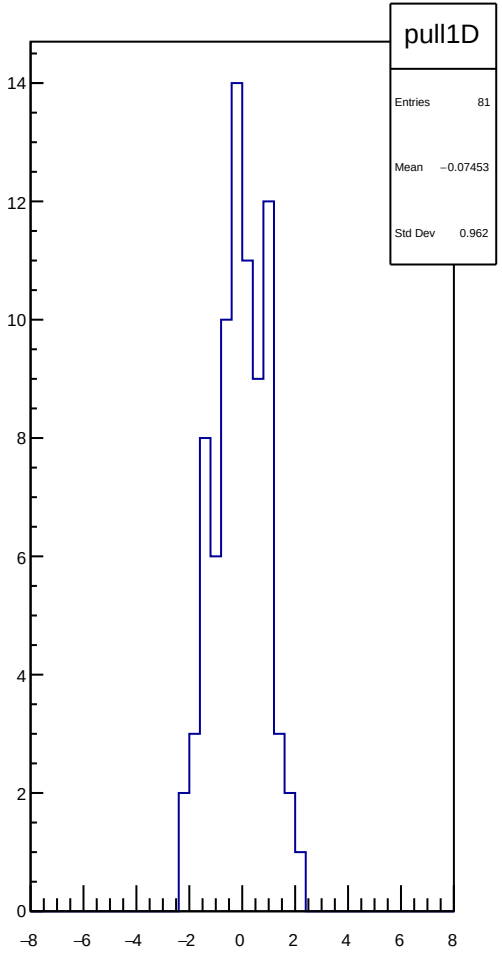

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.021e+05 / 80
p0 1.176e−11 ± 1.269e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

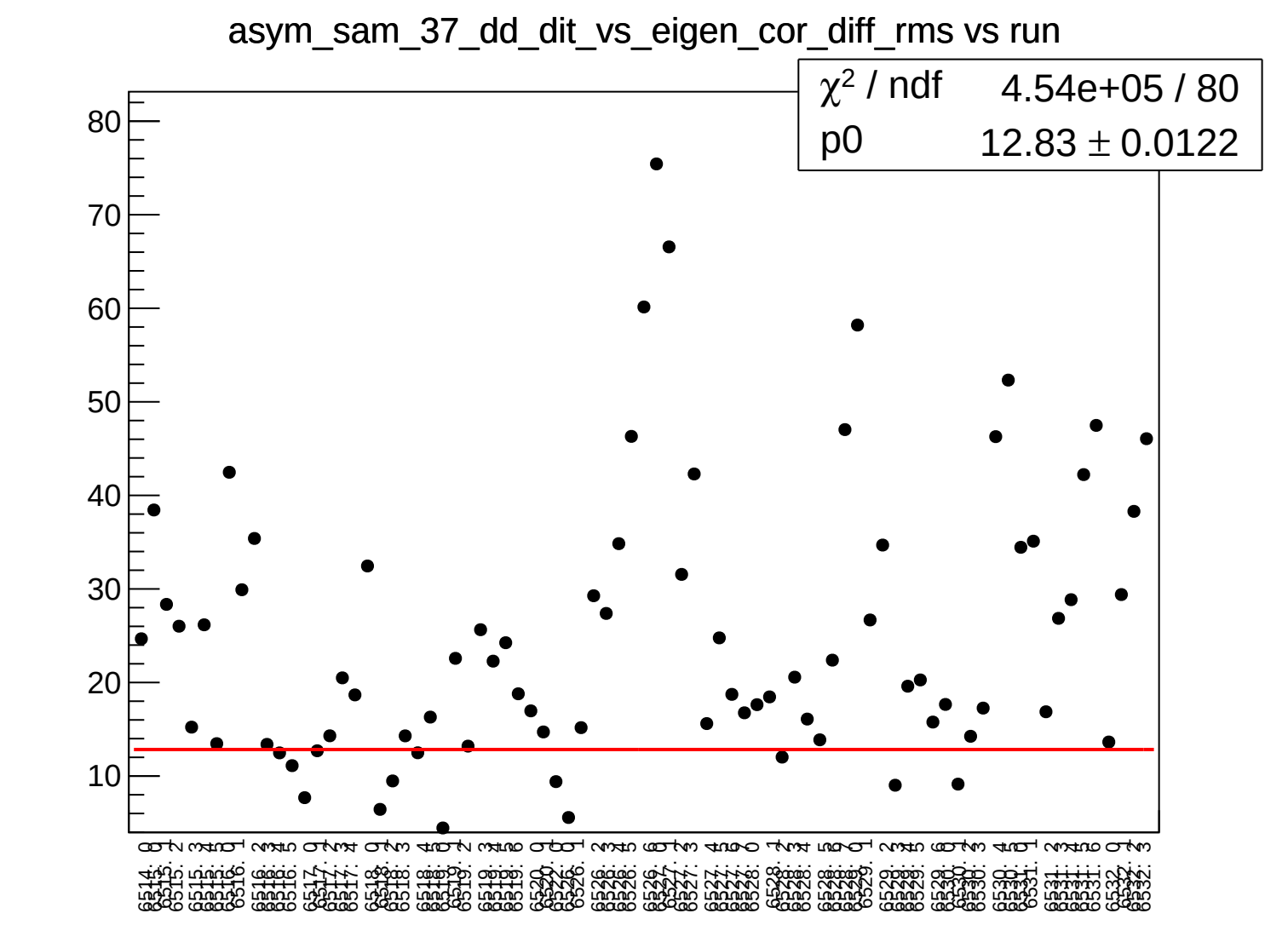

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 75.41 / 80
p0 0.02531 ± 0.01725
pull
Entries 81
Mean 74.62
Std Dev 33.78

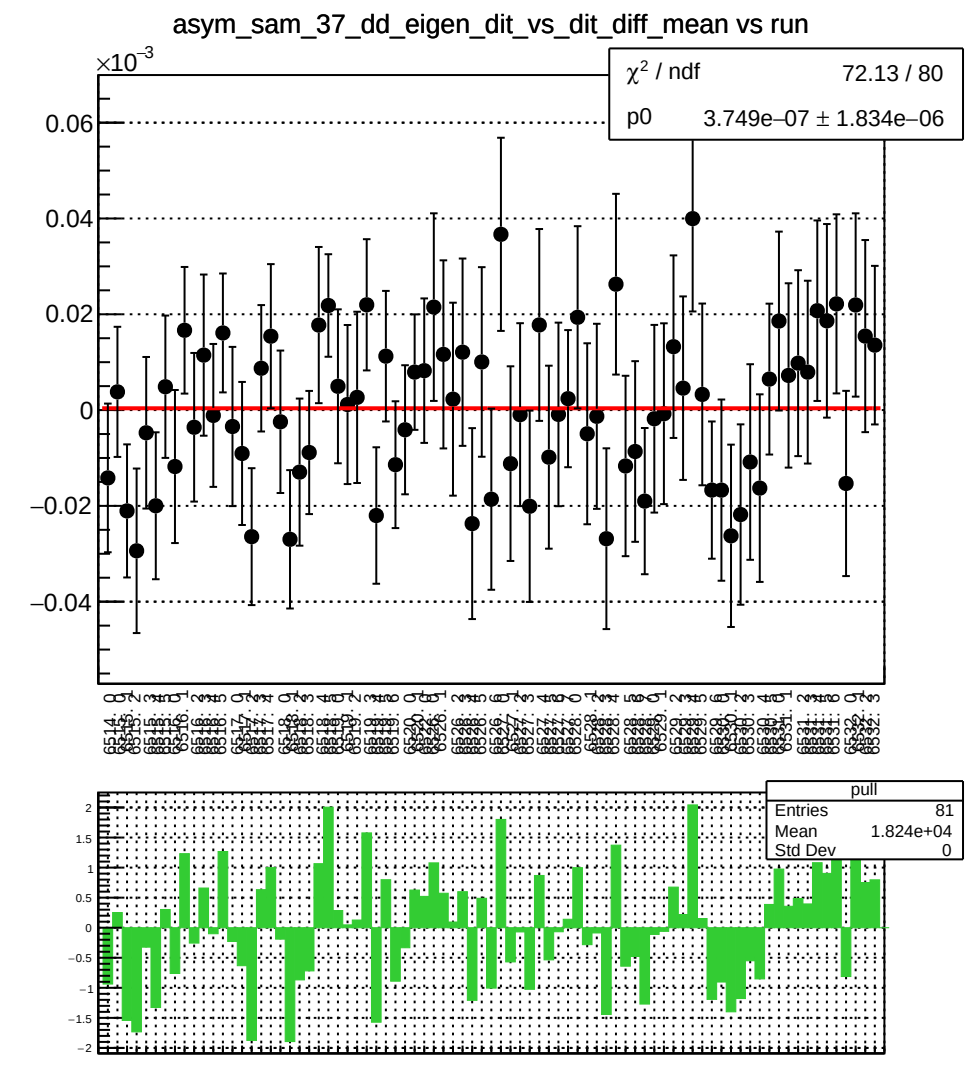

pull1D
Entries 81
Mean −0.07453
Std Dev 0.962

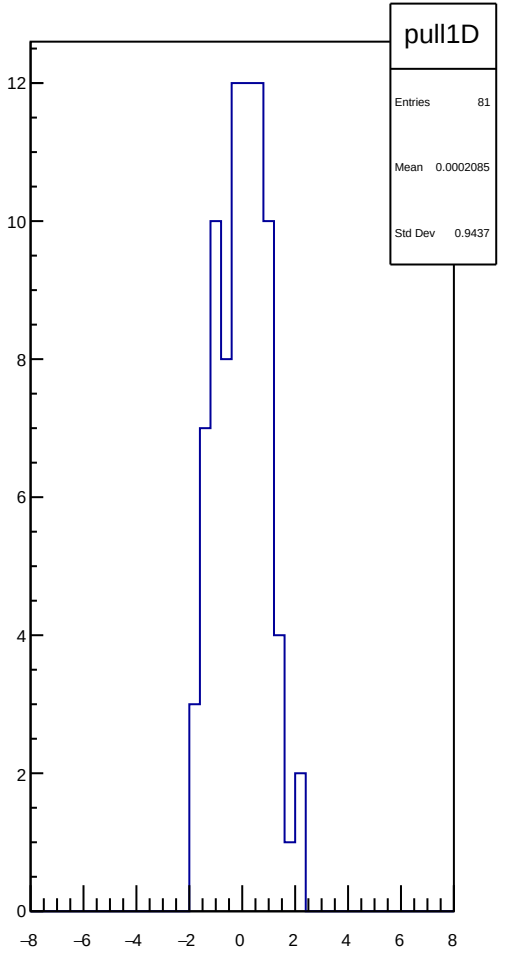

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.54e+05 / 80
p0 12.83 ± 0.0122
80
70
60
50
40
30
20
10

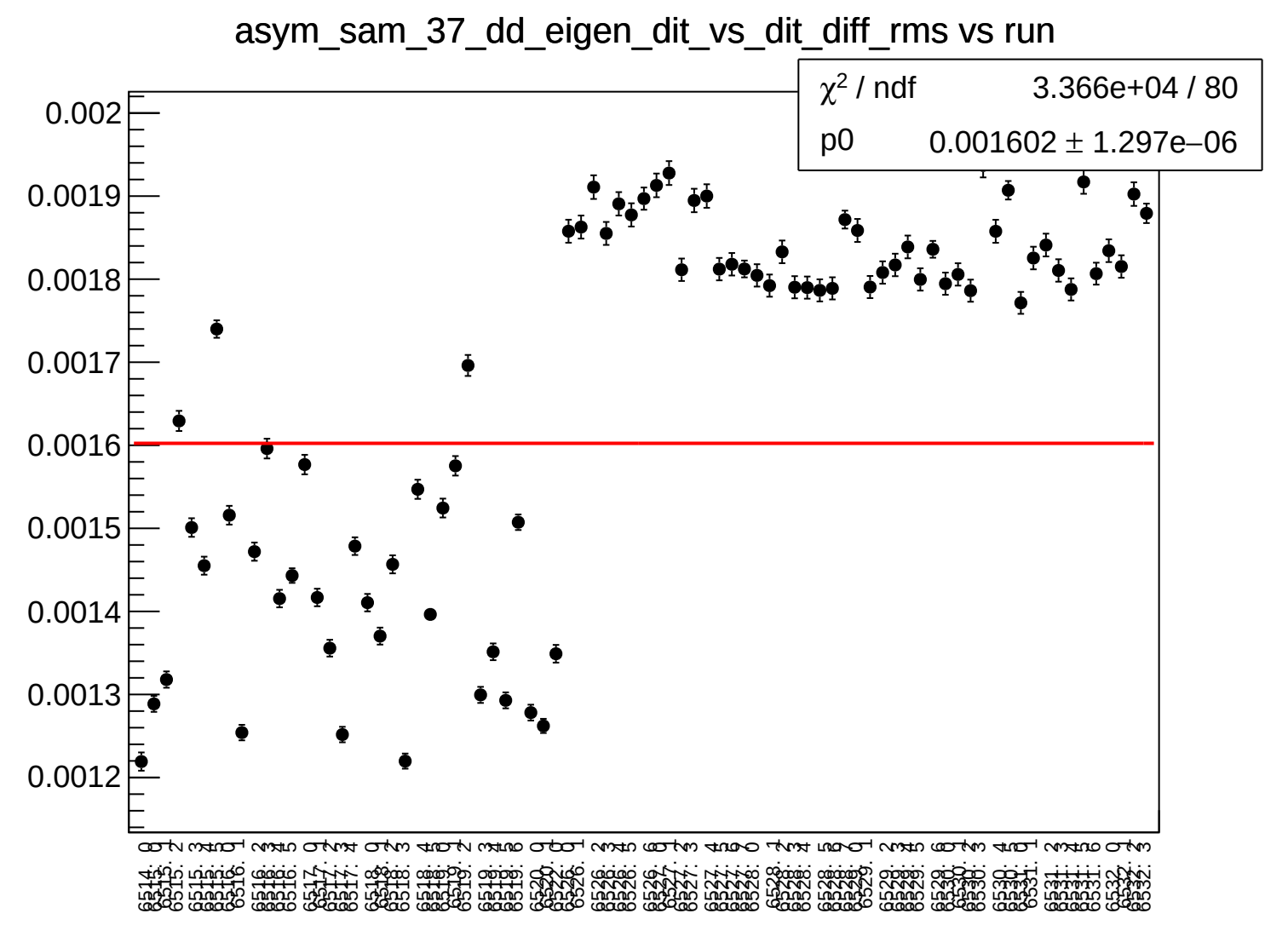

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.41 / 80
p0 0.02531 ± 0.01725
pull
Entries 81
Mean 74.62
Std Dev 33.78

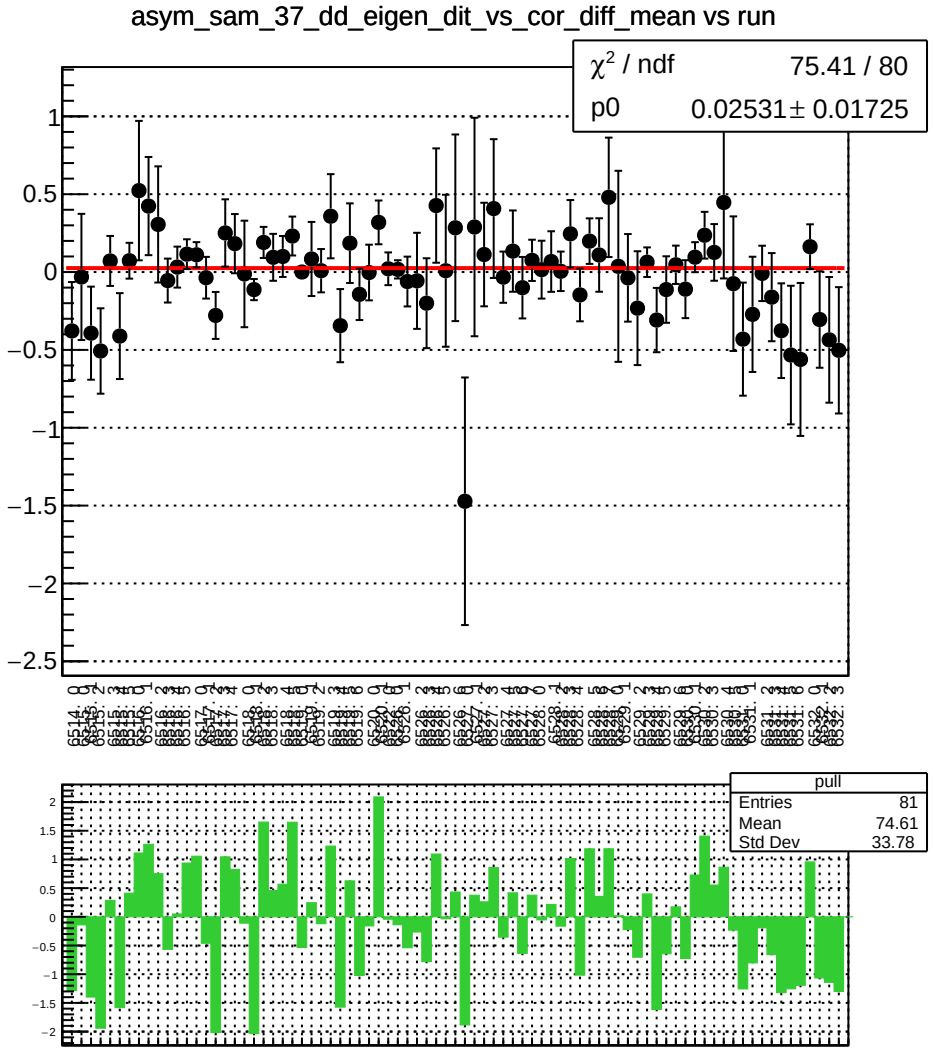

pull1D
Entries 81
Mean −0.07453
Std Dev 0.962

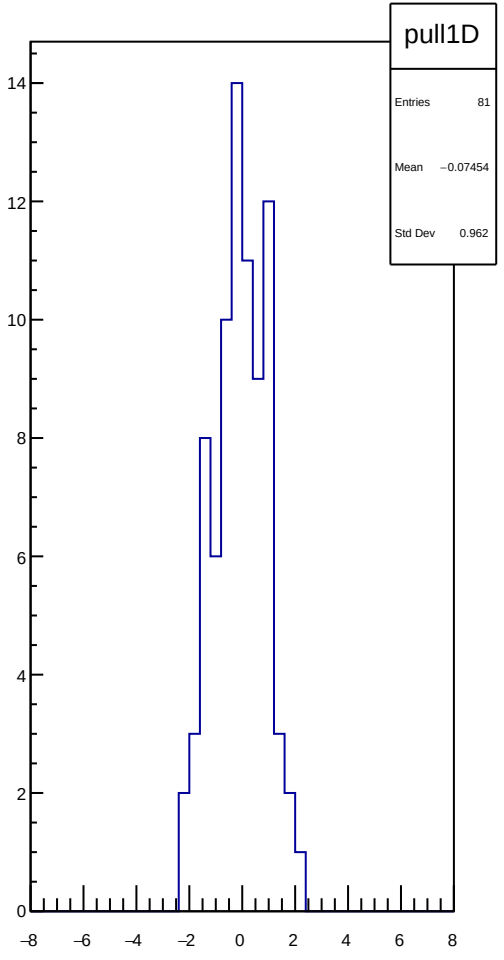

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.54e+05 / 80
p0 12.83 ± 0.0122
80
70
60
50
40
30
20
10

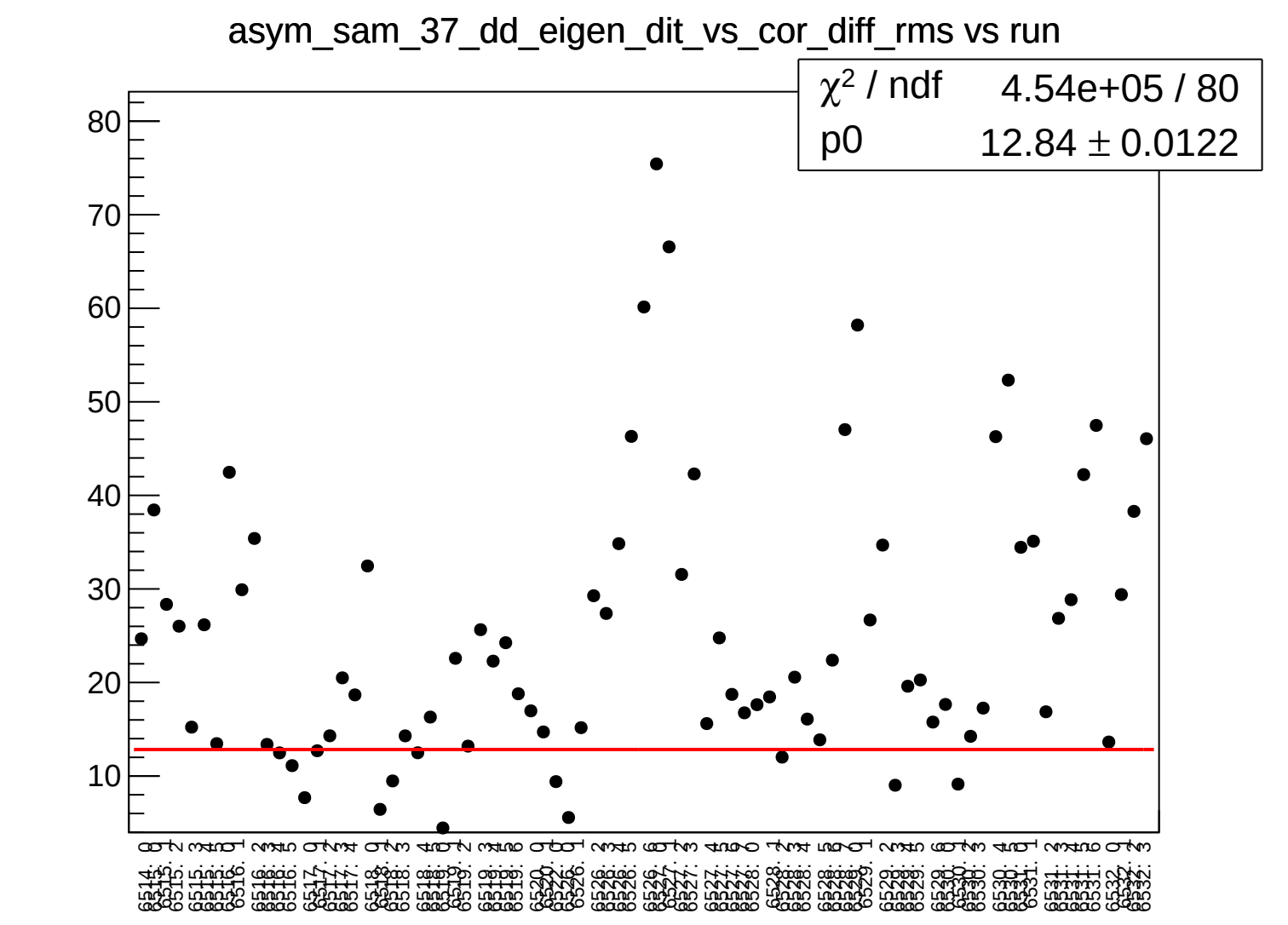

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.13 / 80
p0 3.749e−07 ± 1.834e−06
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 81
Mean 1.824e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

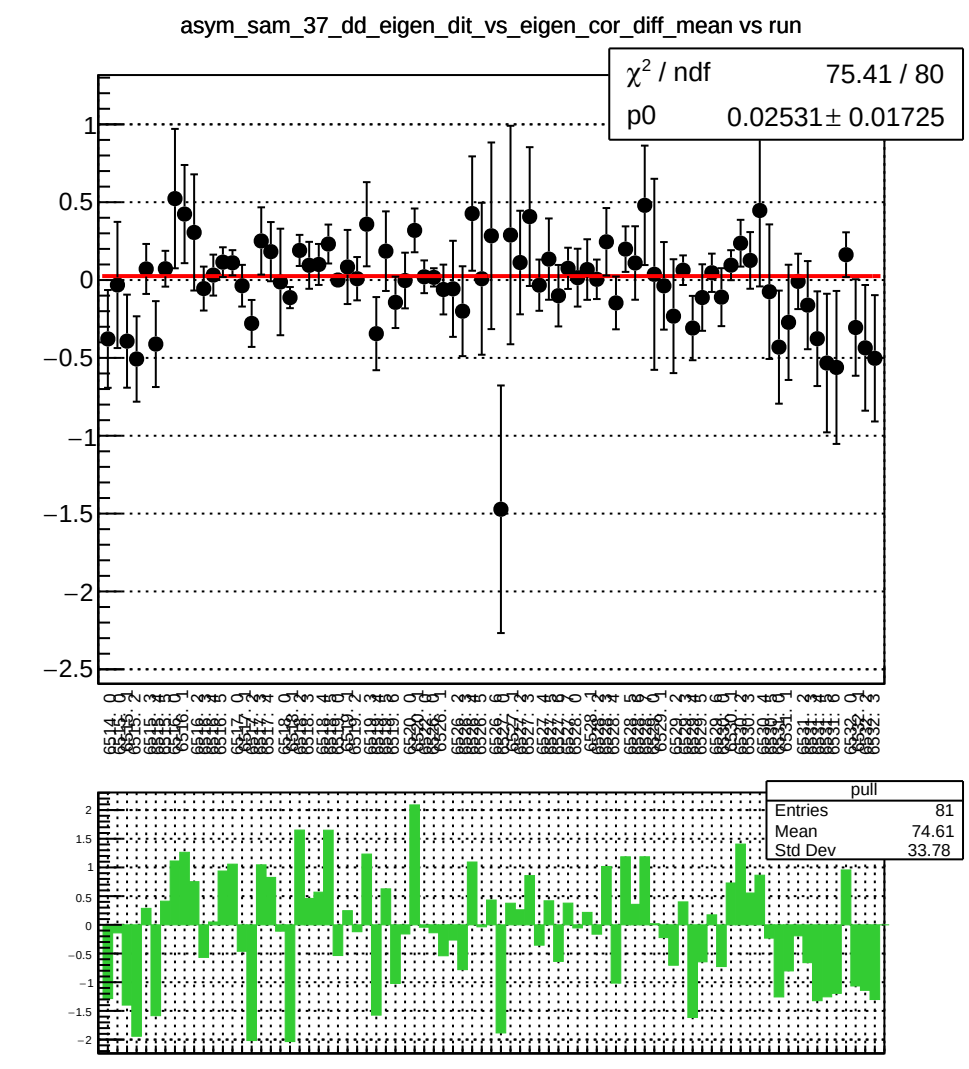

pull1D
Entries 81
Mean 0.0002085
Std Dev 0.9437
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

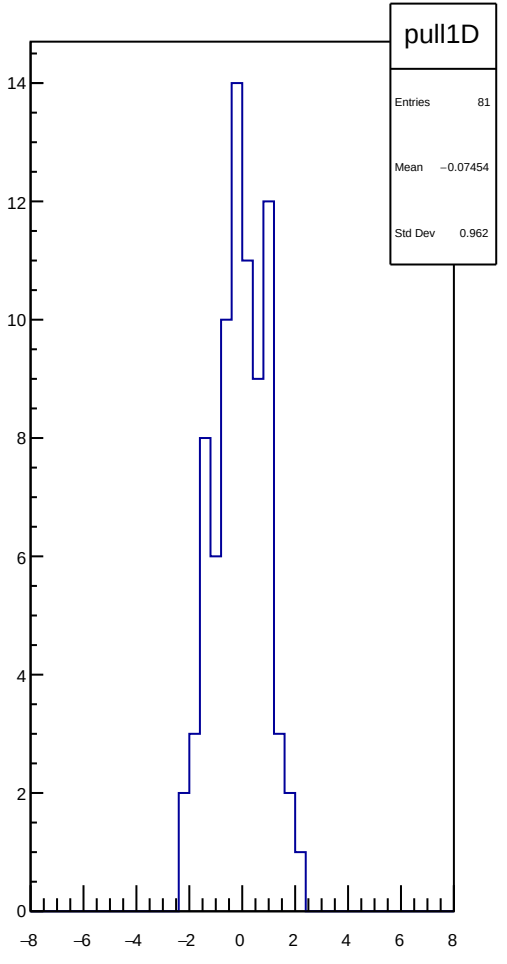

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.366e+04 / 80
p0 0.001602 ± 1.297e−06
0.002
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012

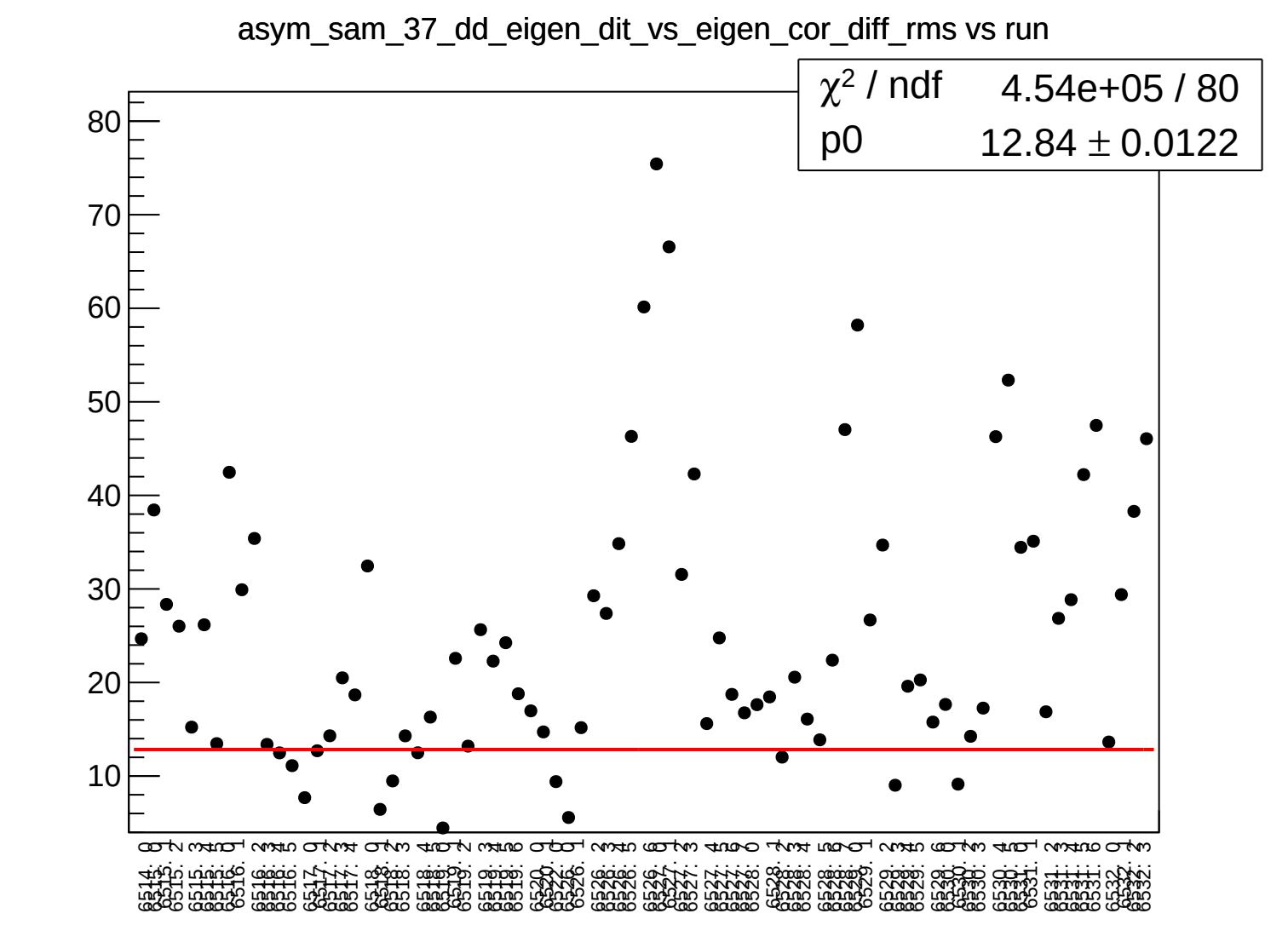

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.41 / 80
p0 0.02531 ± 0.01725
pull
Entries 81
Mean 74.61
Std Dev 33.78

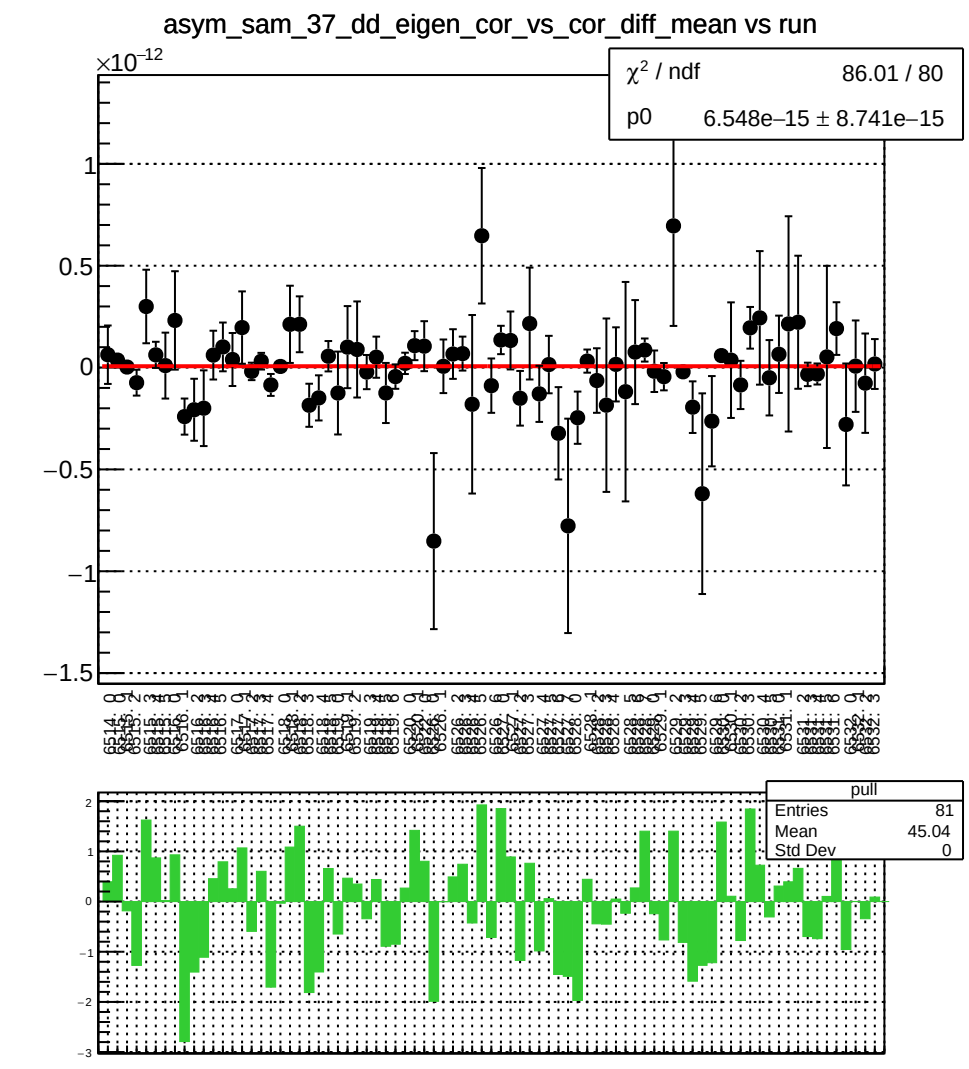

pull1D
Entries 81
Mean −0.07454
Std Dev 0.962

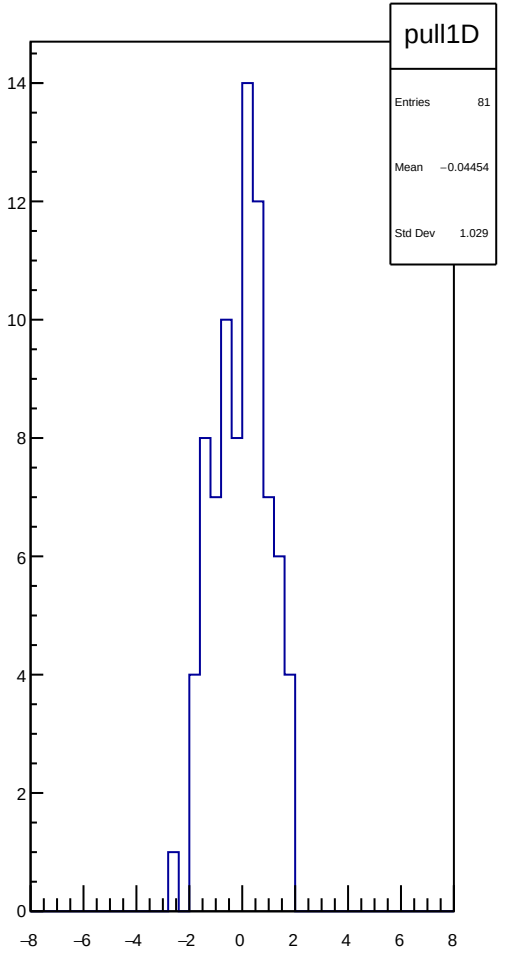

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.54e+05 / 80
p0 12.84 ± 0.0122
80
70
60
50
40
30
20
10

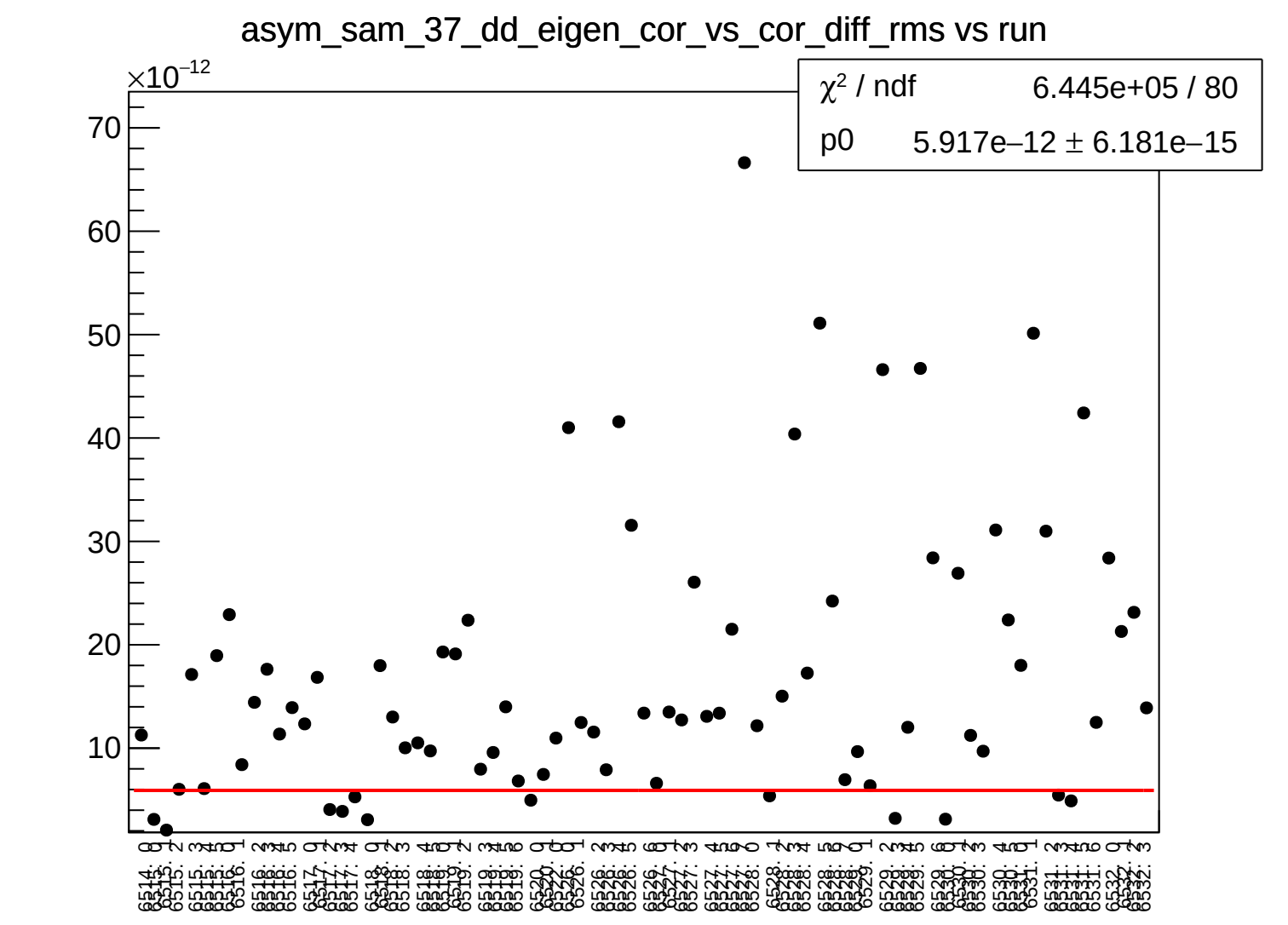

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.41 / 80
p0 0.02531 ± 0.01725
pull
Entries 81
Mean 74.61
Std Dev 33.78

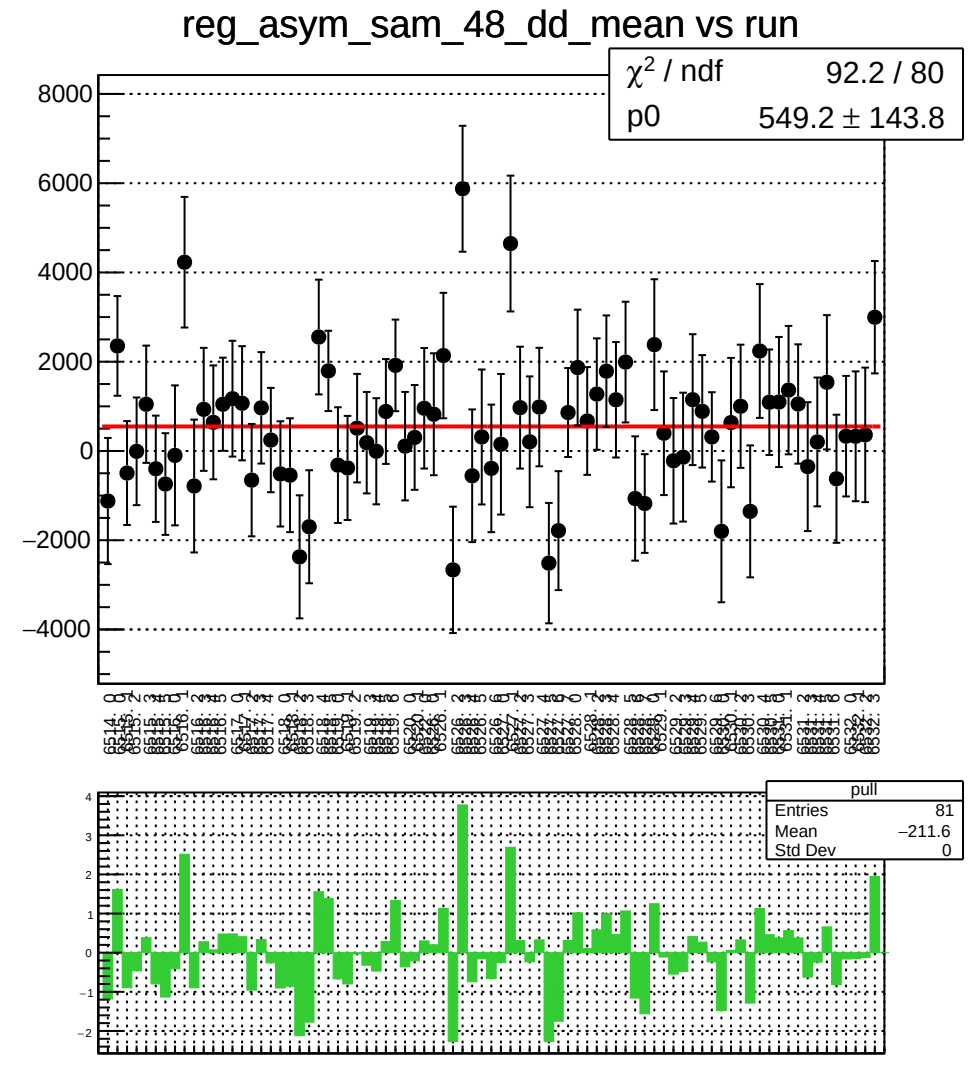

pull1D
Entries 81
Mean −0.07454
Std Dev 0.962

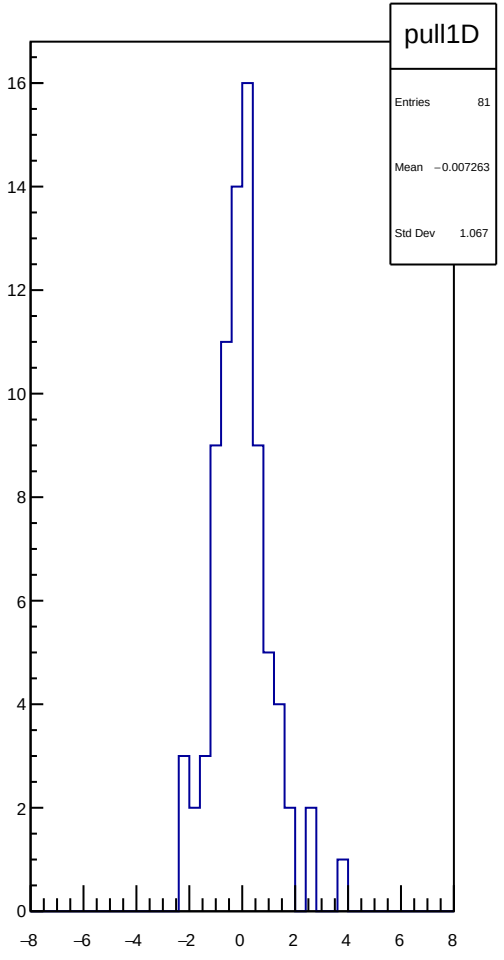

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.54e+05 / 80
p0 12.84 ± 0.0122
80
70
60
50
40
30
20
10

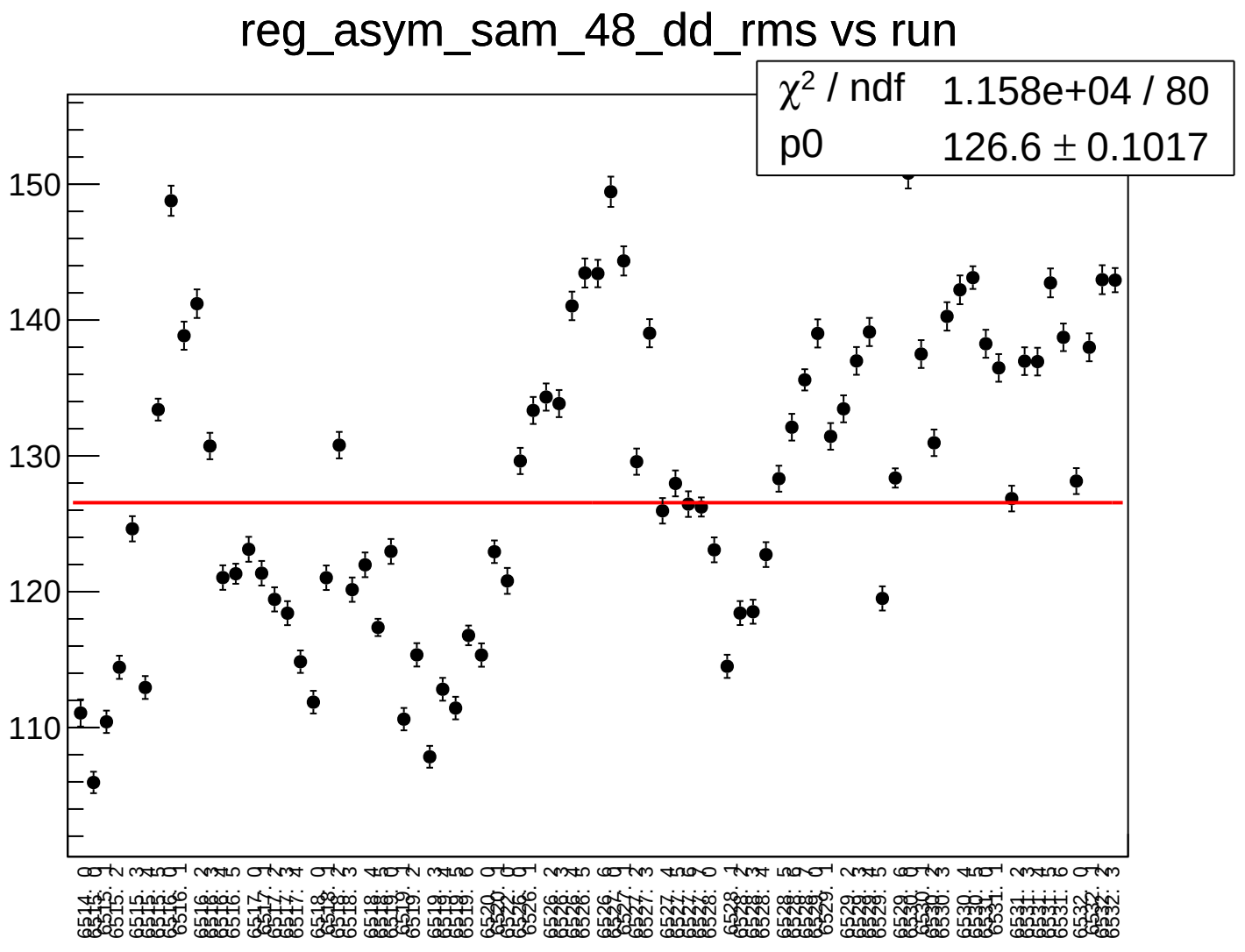

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.01 / 80
p0 6.548e−15 ± 8.741e−15
pull
Entries 81
Mean 45.04
Std Dev 0

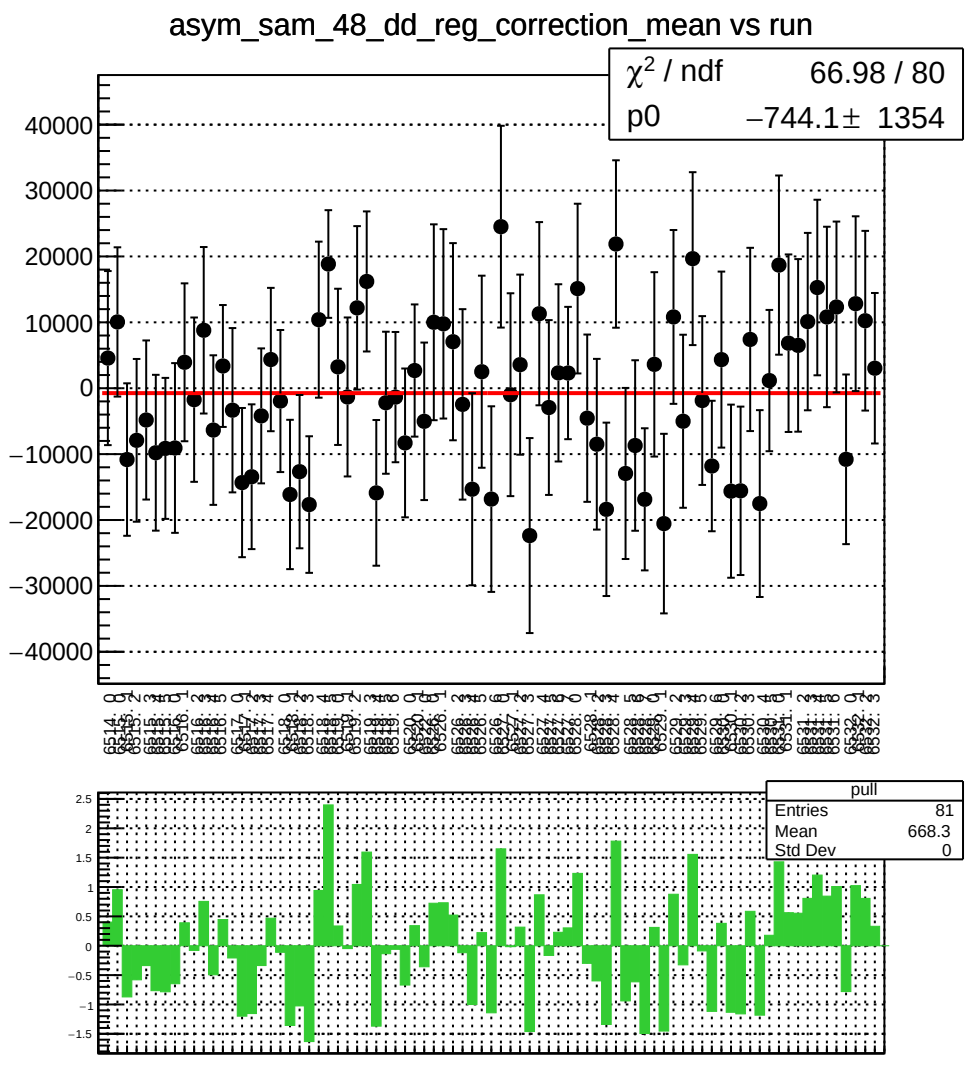

pull1D
Entries 81
Mean −0.04454
Std Dev 1.029

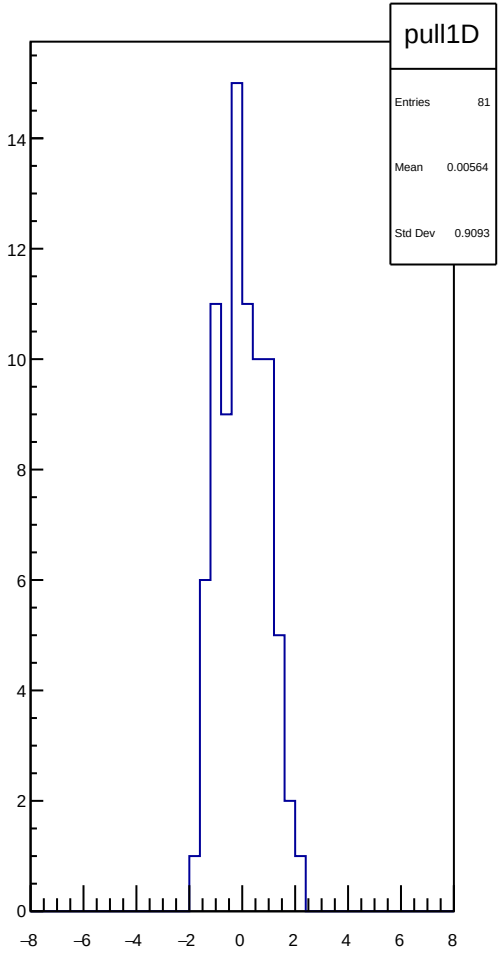

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
70
60
50
40
30
20
10
χ² / ndf 6.445e+05 / 80
p0 5.917e−12 ± 6.181e−15

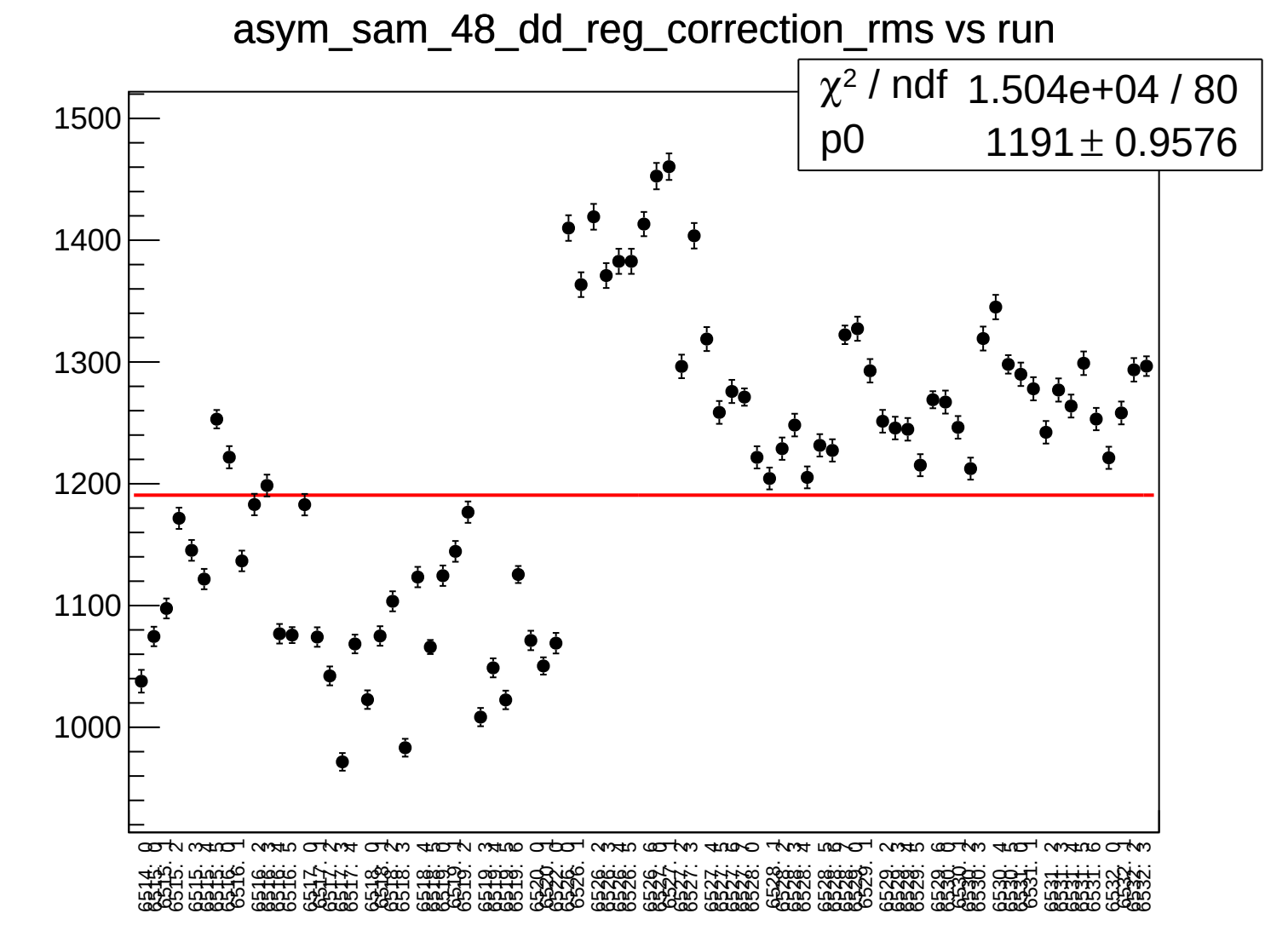

reg_asym_sam_48_dd_mean vs run
χ² / ndf 92.2 / 80
p0 549.2 ± 143.8
pull
Entries 81
Mean −211.6
Std Dev 0

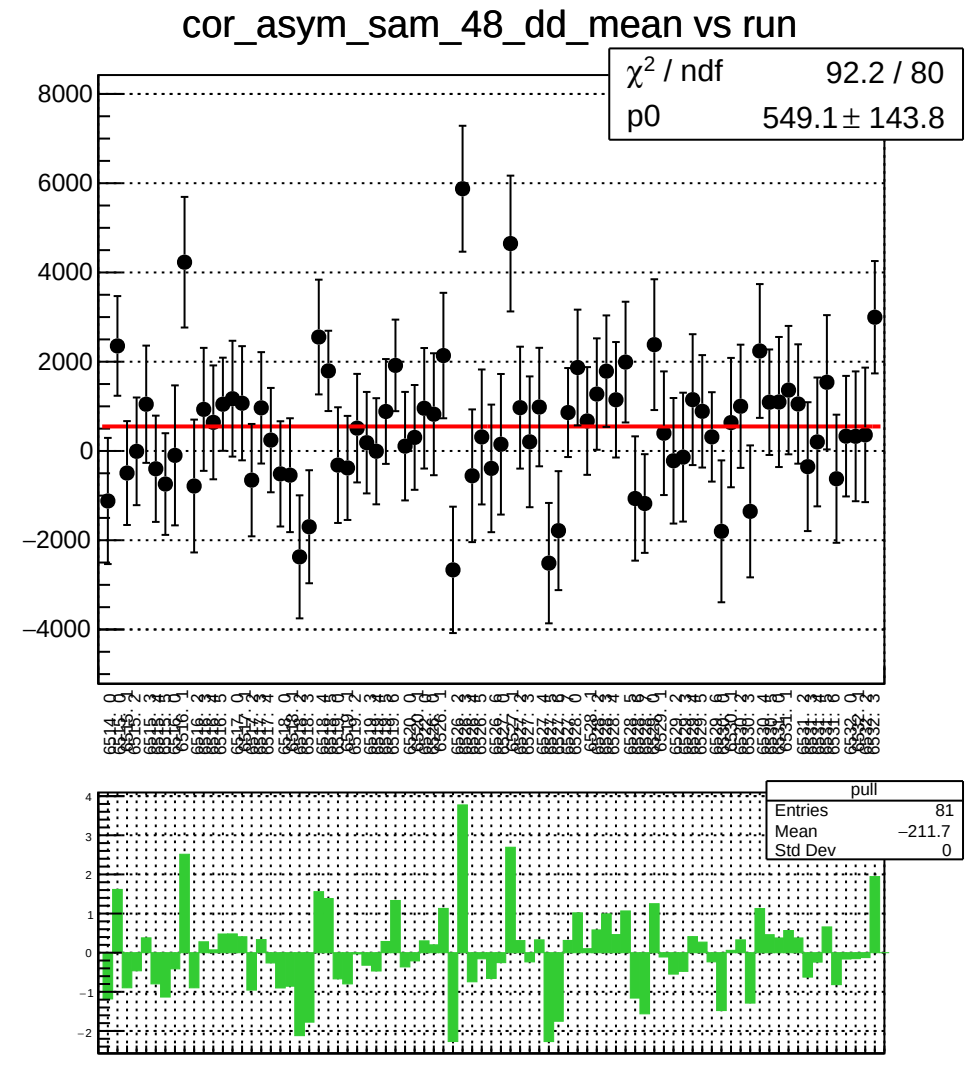

pull1D
Entries 81
Mean −0.007263
Std Dev 1.067

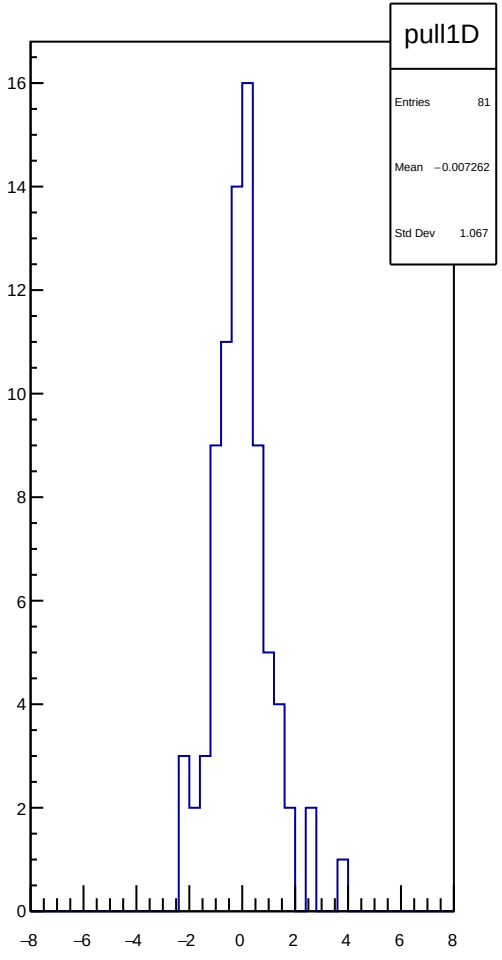

reg_asym_sam_48_dd_rms vs run
χ² / ndf 1.158e+04 / 80
p0 126.6 ± 0.1017
150
140
130
120
110

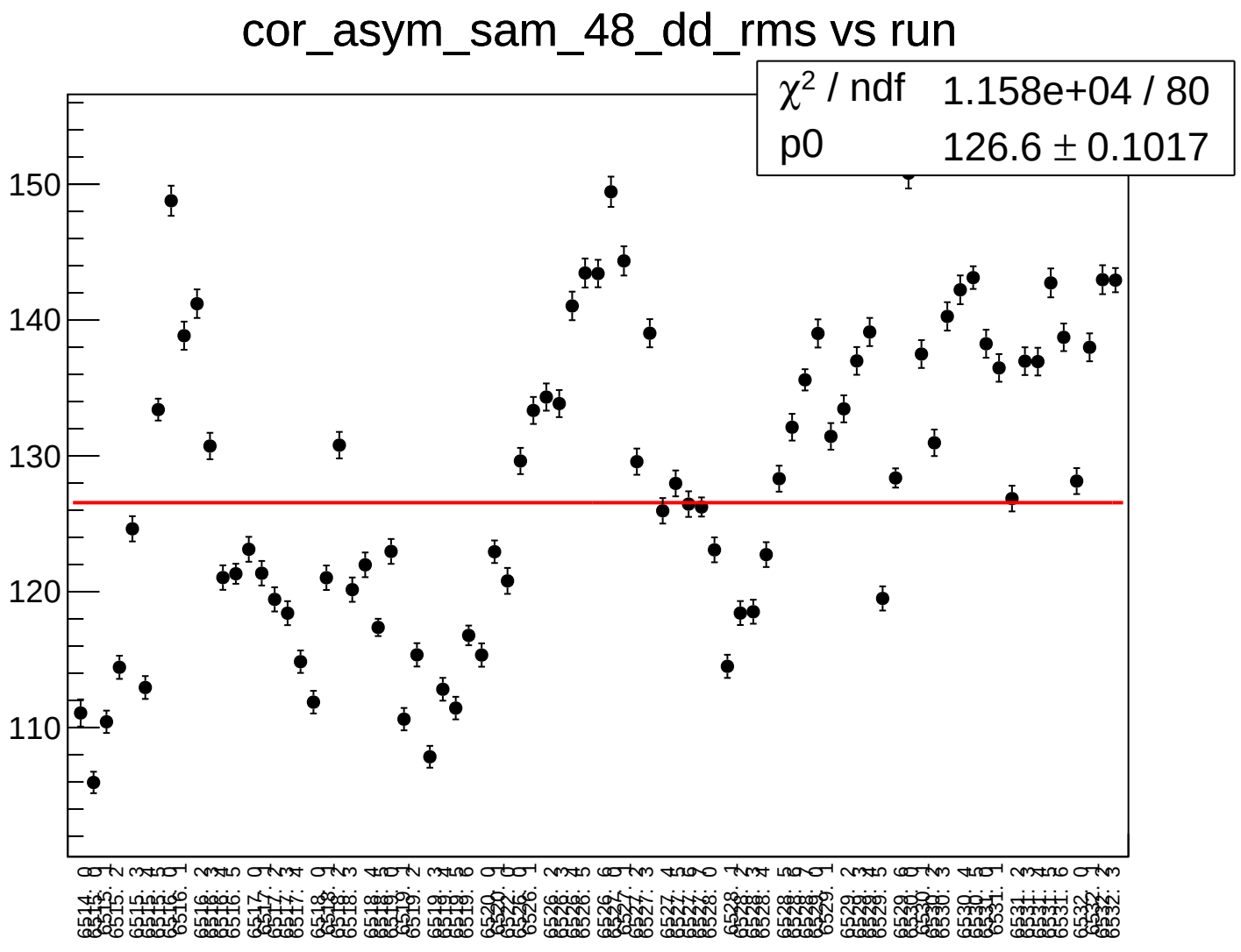

asym_sam_48_dd_reg_correction_mean vs run
χ² / ndf 66.98 / 80
p0 −744.1± 1354
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 81
Mean 668.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

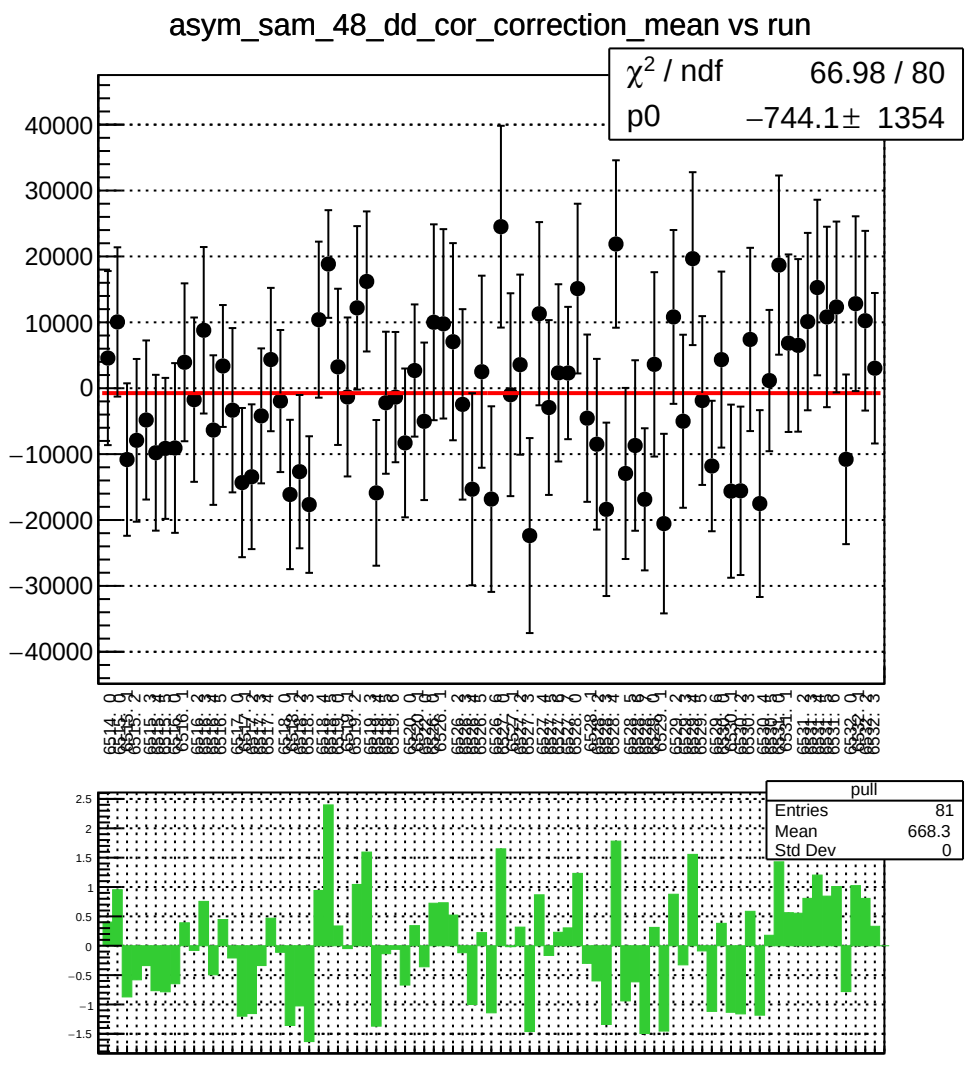

pull1D
Entries 81
Mean 0.00564
Std Dev 0.9093
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

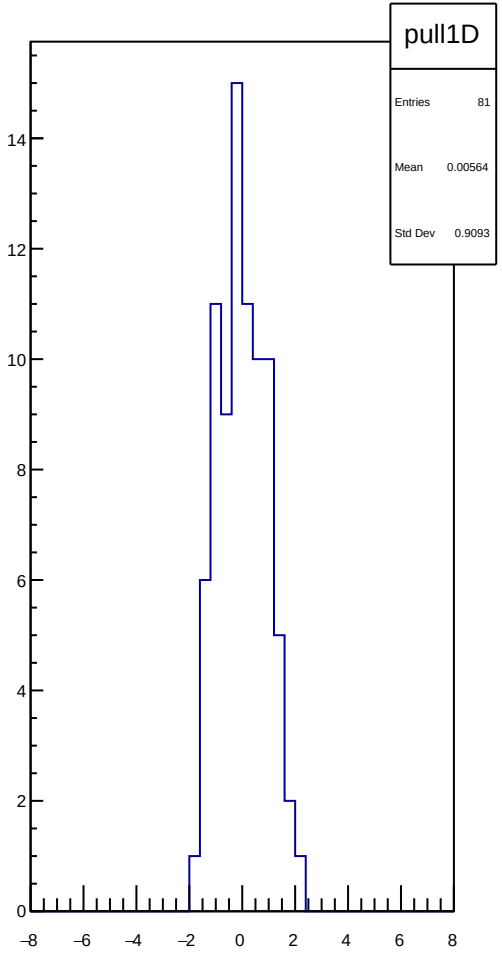

asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 1.504e+04 / 80
p0 1191 ± 0.9576
1500
1400
1300
1200
1100
1000

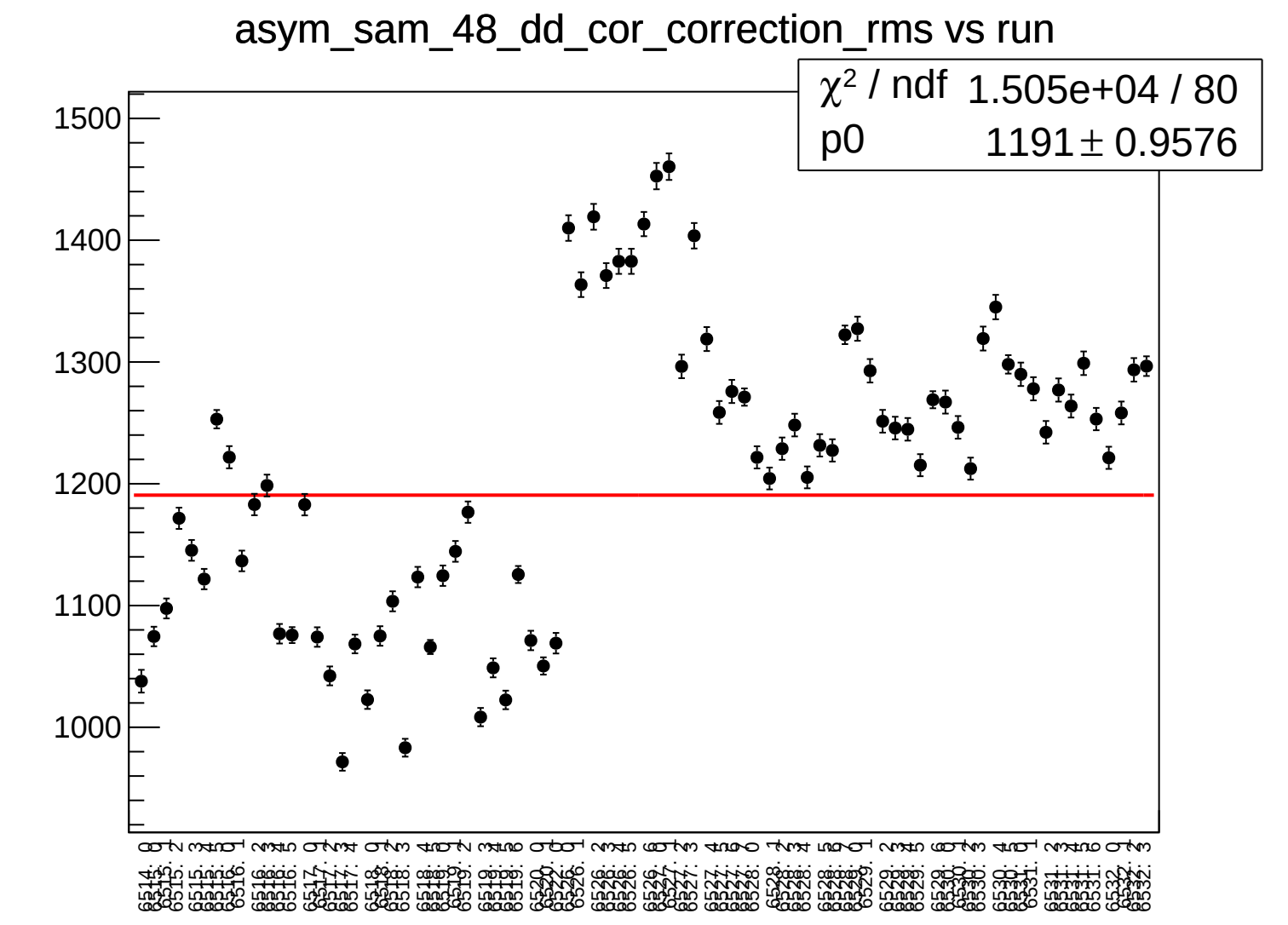

cor_asym_sam_48_dd_mean vs run
χ^2 / ndf 92.2 / 80
p0 549.1 ± 143.8
pull
Entries 81
Mean −211.7
Std Dev 0

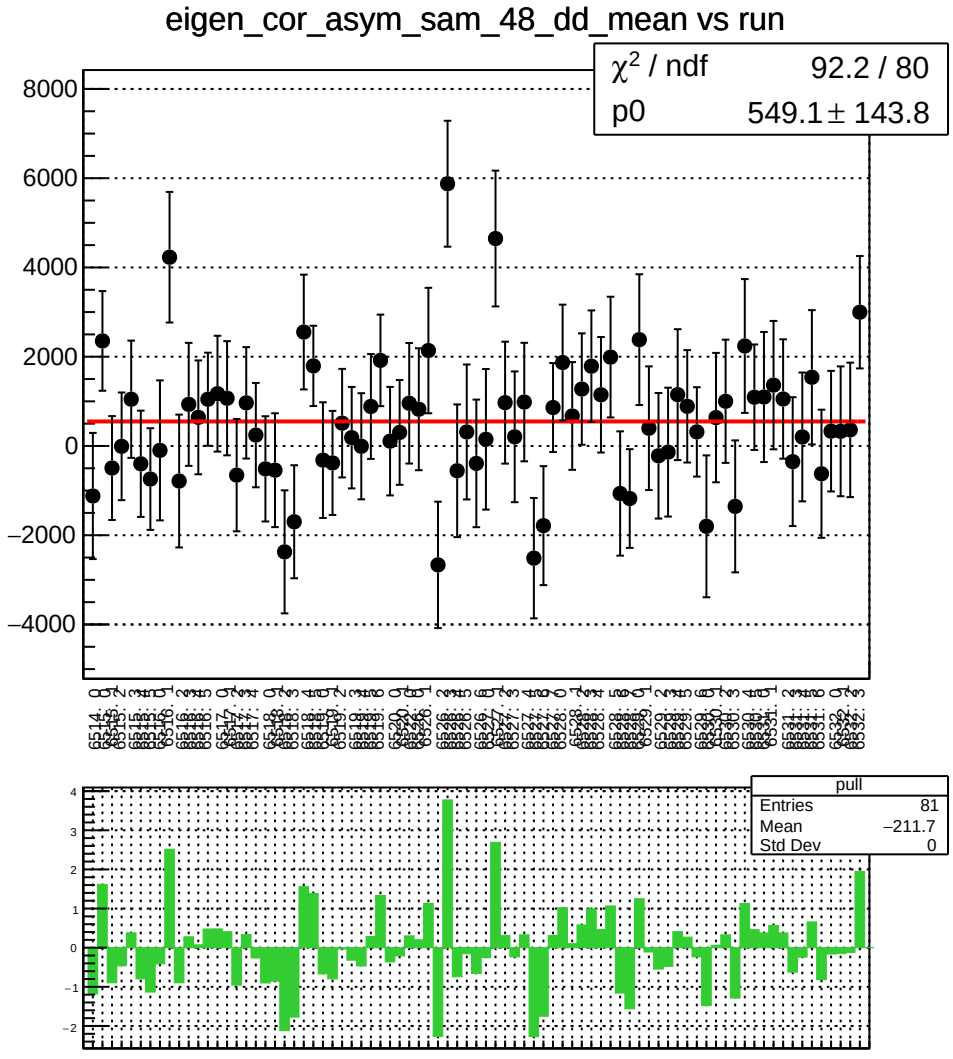

pull1D
Entries 81
Mean −0.007262
Std Dev 1.067

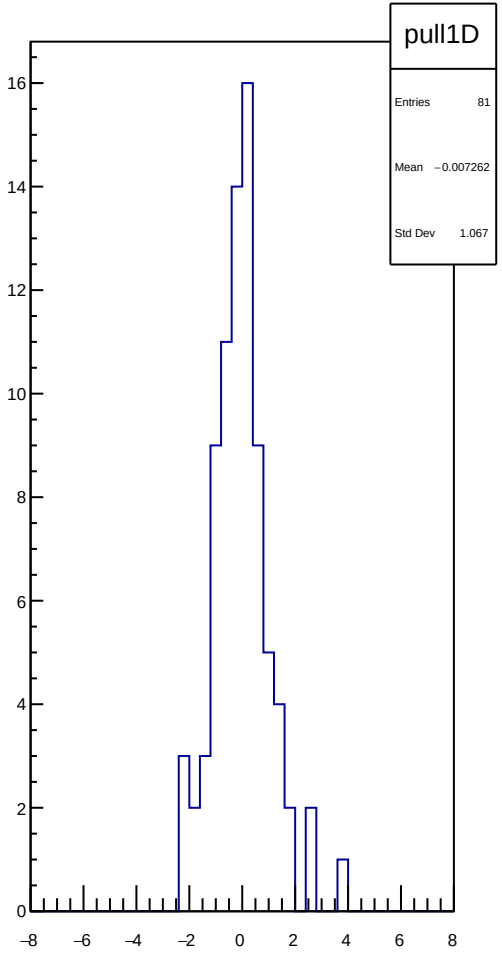

cor_asym_sam_48_dd_rms vs run
χ² / ndf 1.158e+04 / 80
p0 126.6 ± 0.1017
150
140
130
120
110

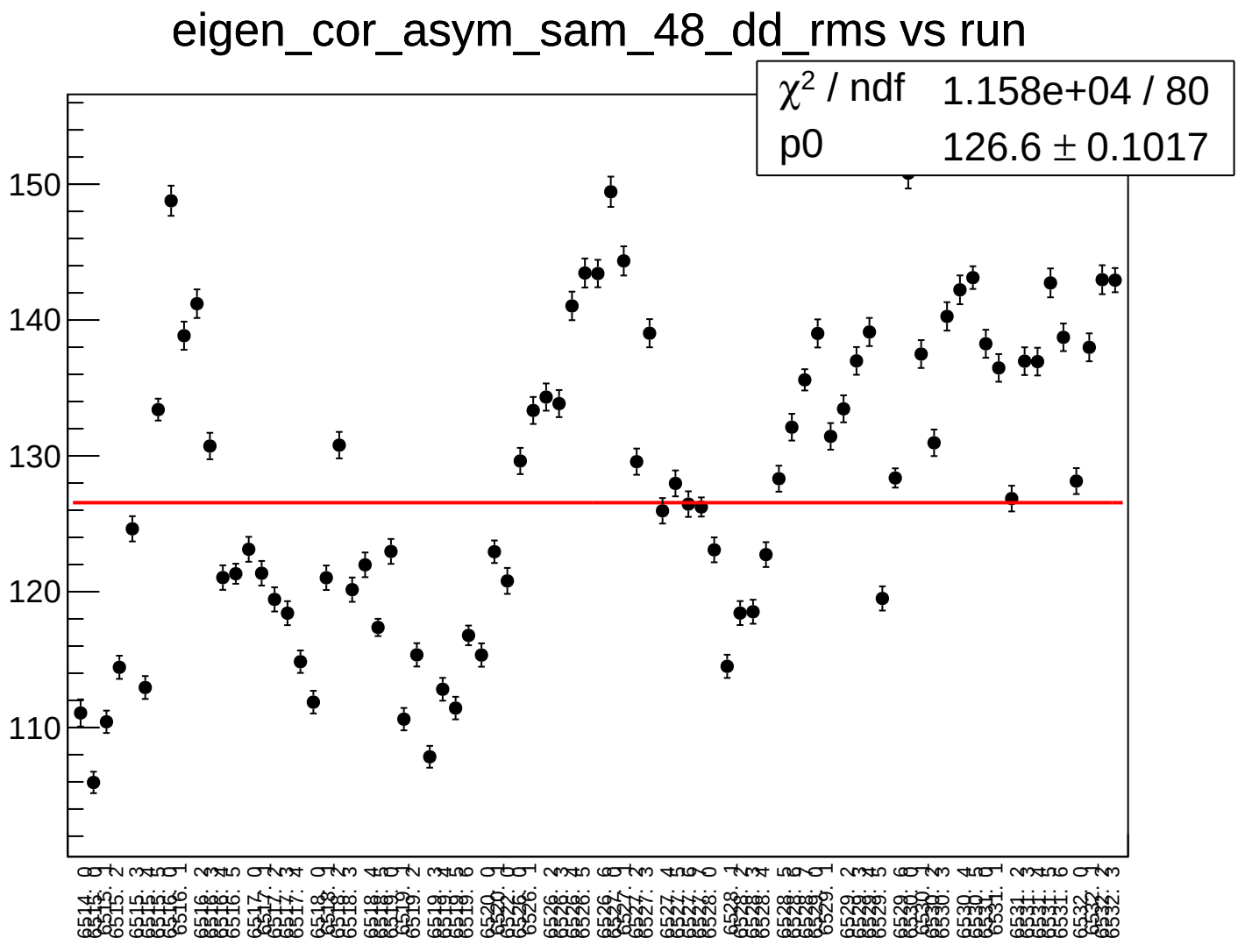

asym_sam_48_dd_cor_correction_mean vs run
χ² / ndf 66.98 / 80
p0 −744.1± 1354
pull
Entries 81
Mean 668.3
Std Dev 0

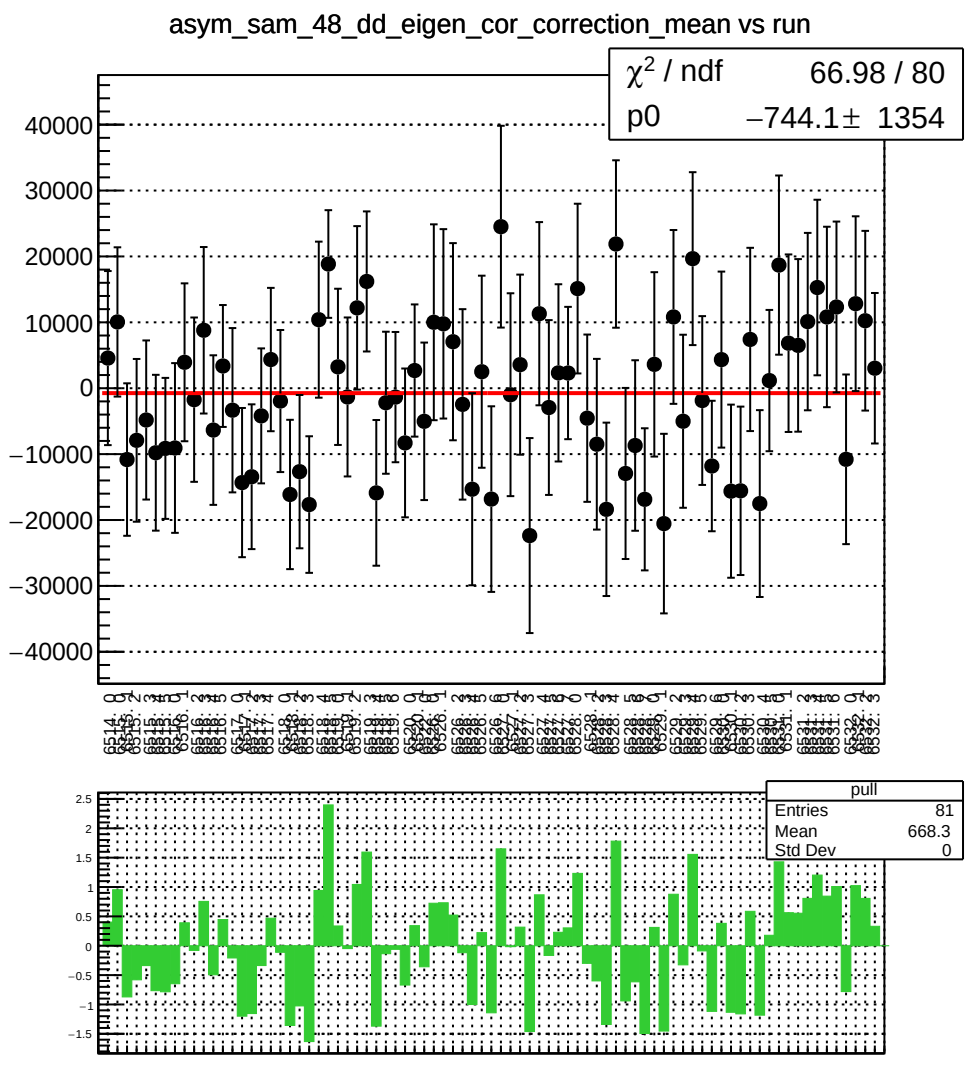

pull1D
Entries 81
Mean 0.00564
Std Dev 0.9093

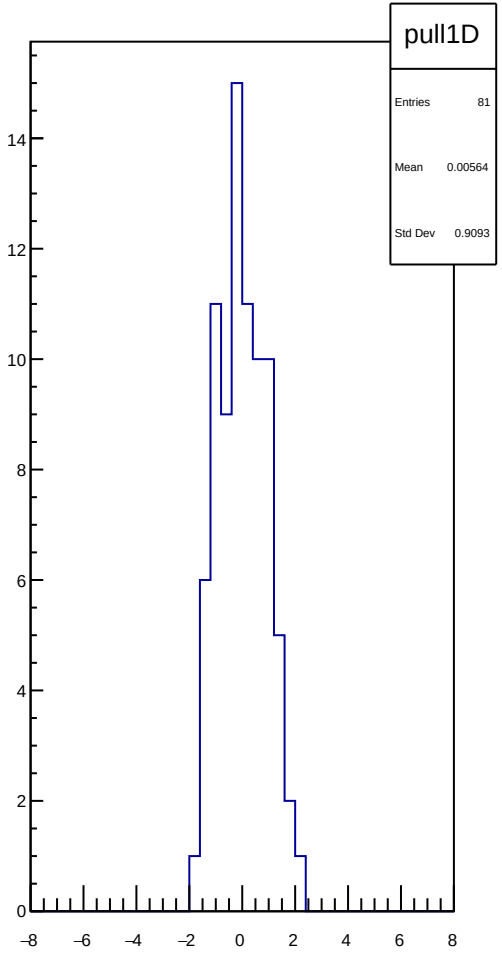

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 1.505e+04 / 80
p0 1191 ± 0.9576
1500
1400
1300
1200
1100
1000

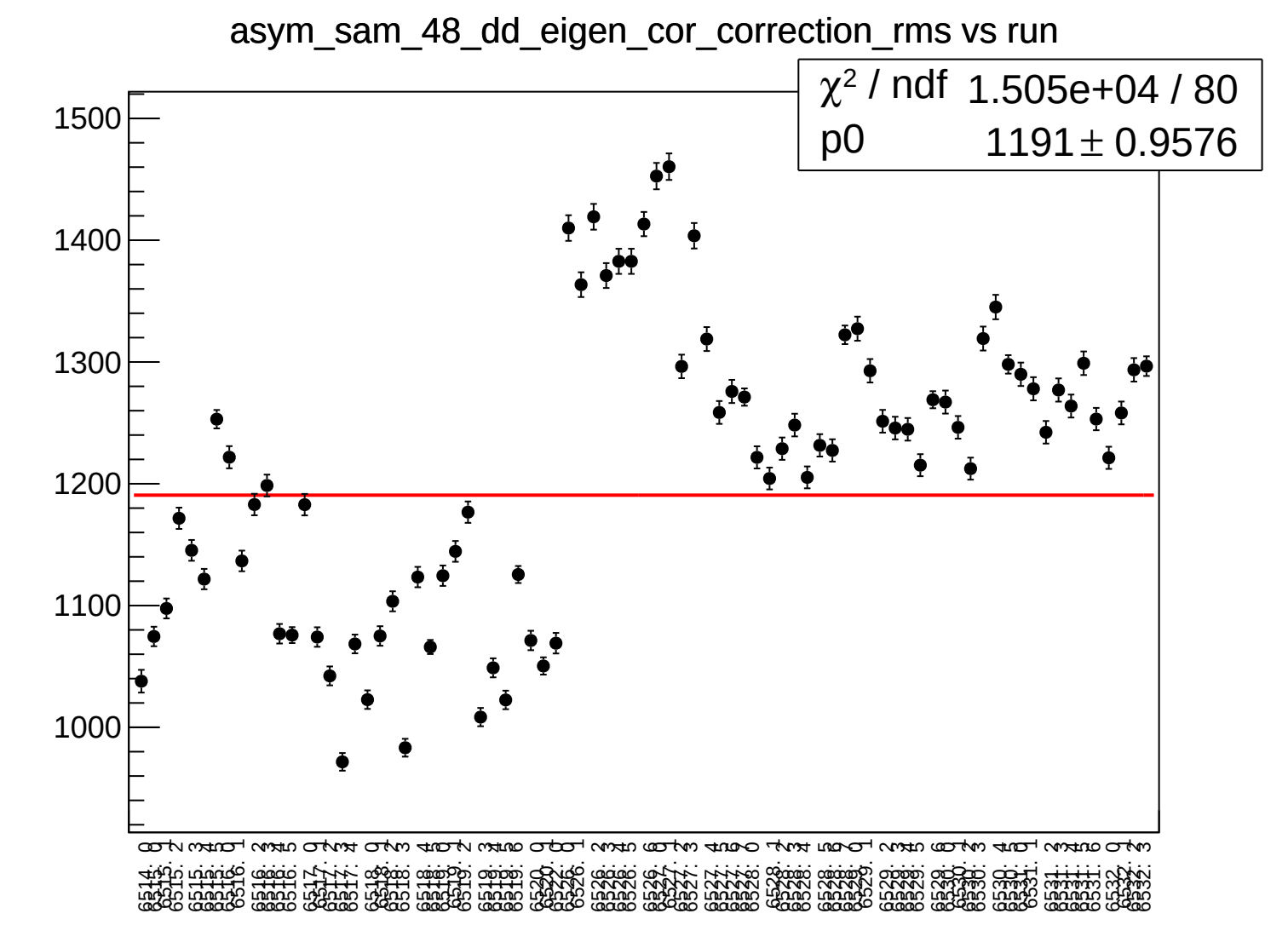

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 92.2 / 80
p0 549.1 ± 143.8
pull
Entries 81
Mean −211.7
Std Dev 0

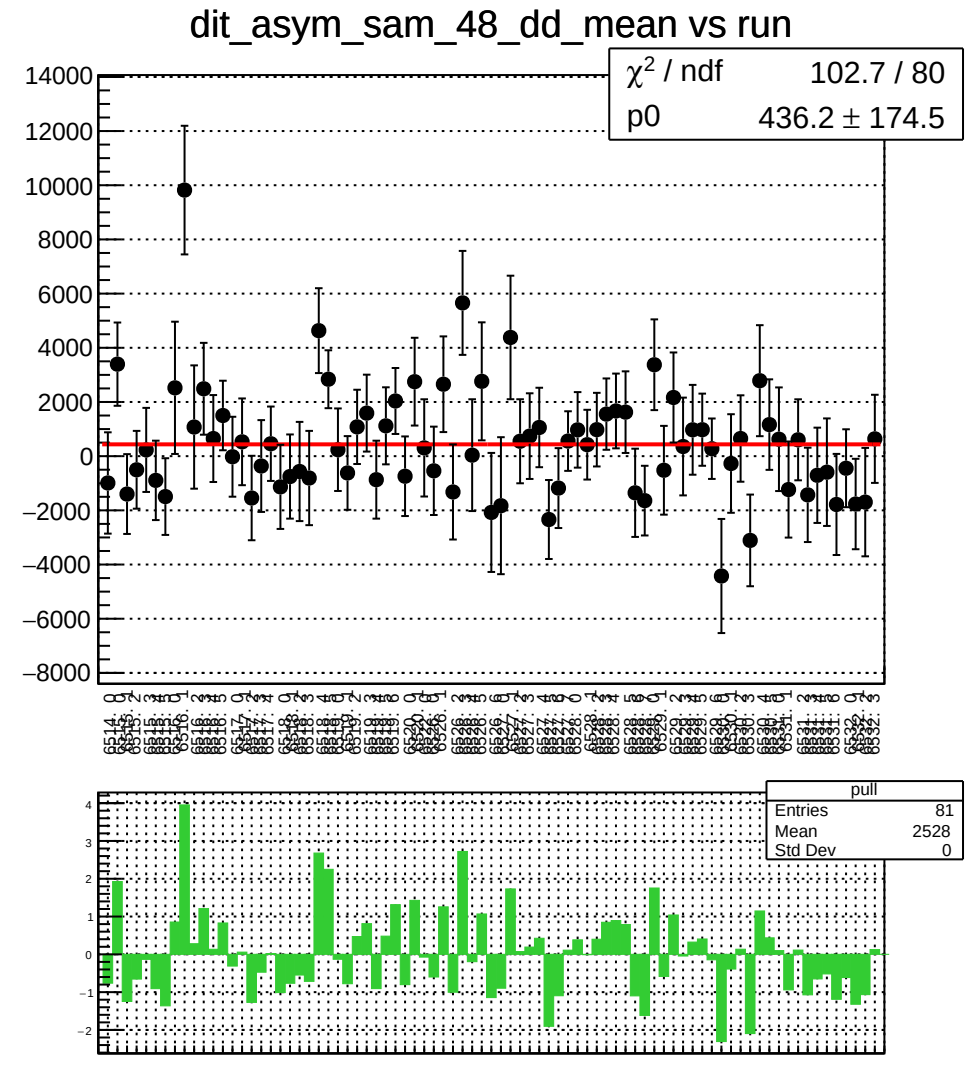

pull1D
Entries 81
Mean −0.007262
Std Dev 1.067

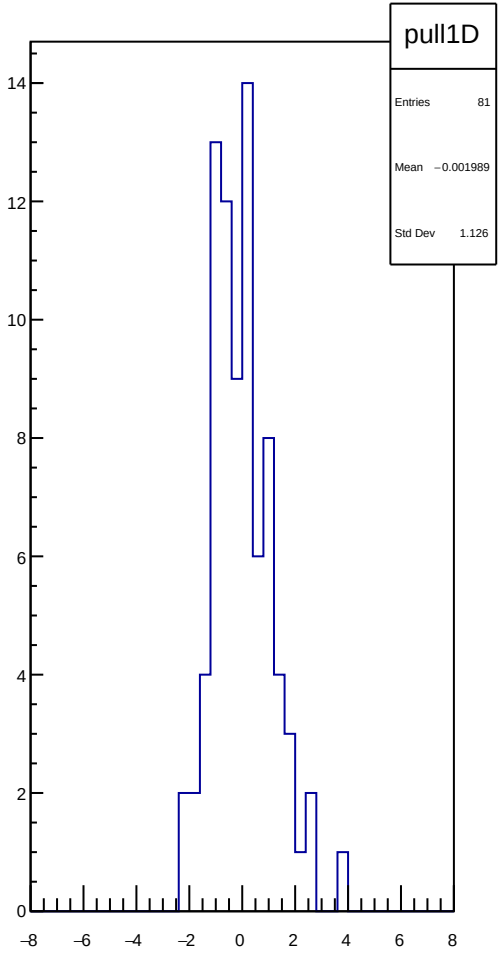

eigen_cor_asym_sam_48_dd_rms vs run
χ² / ndf 1.158e+04 / 80
p0 126.6 ± 0.1017
150
140
130
120
110

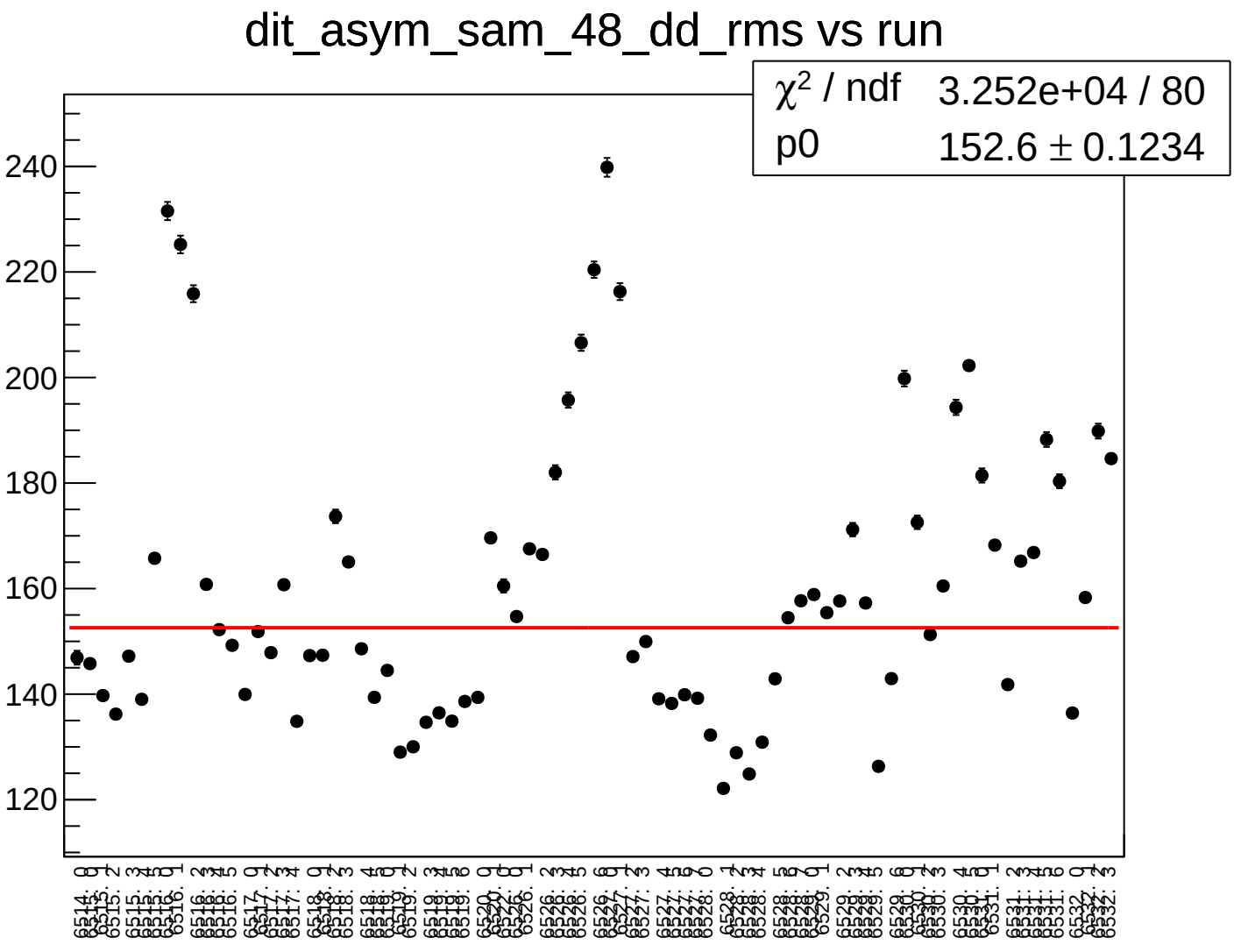

asym_sam_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 66.98 / 80
p0 −744.1± 1354
pull
Entries 81
Mean 668.3
Std Dev 0

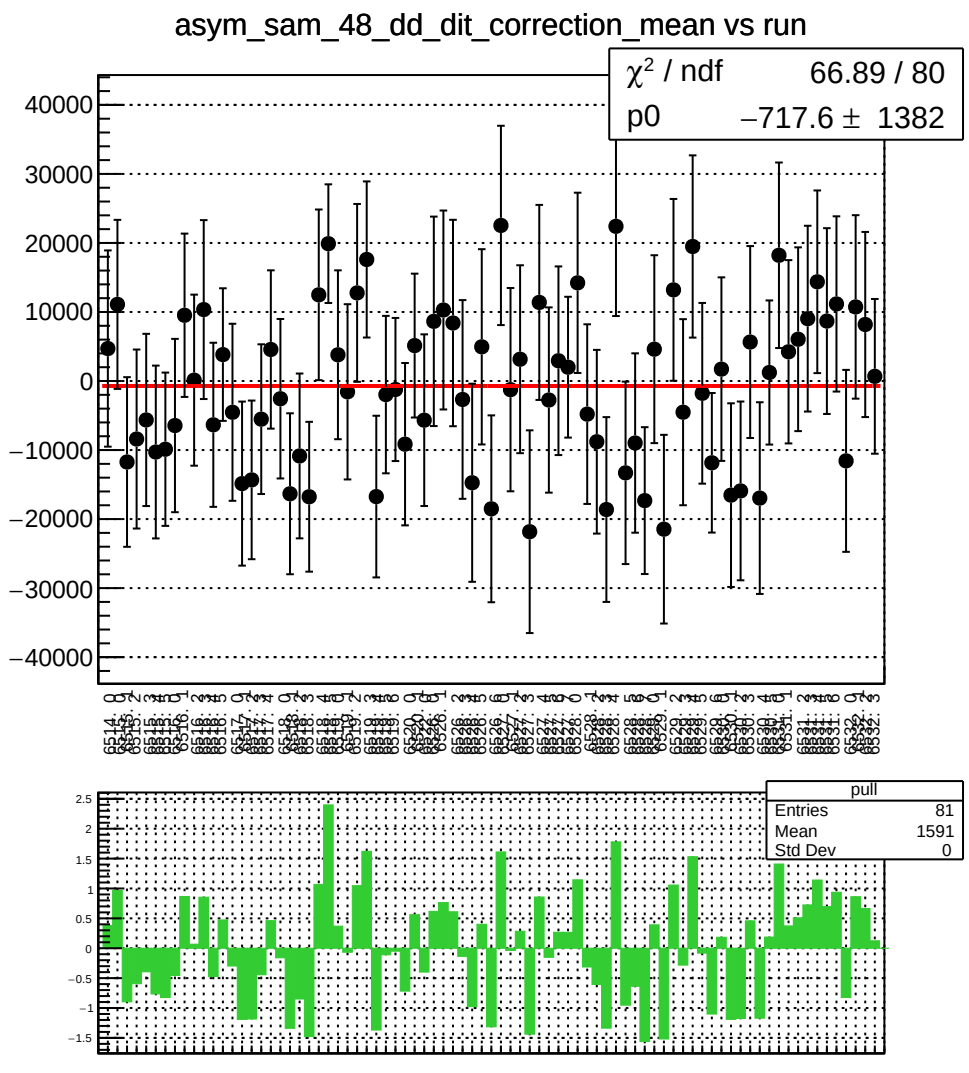

pull1D
Entries 81
Mean 0.00564
Std Dev 0.9093

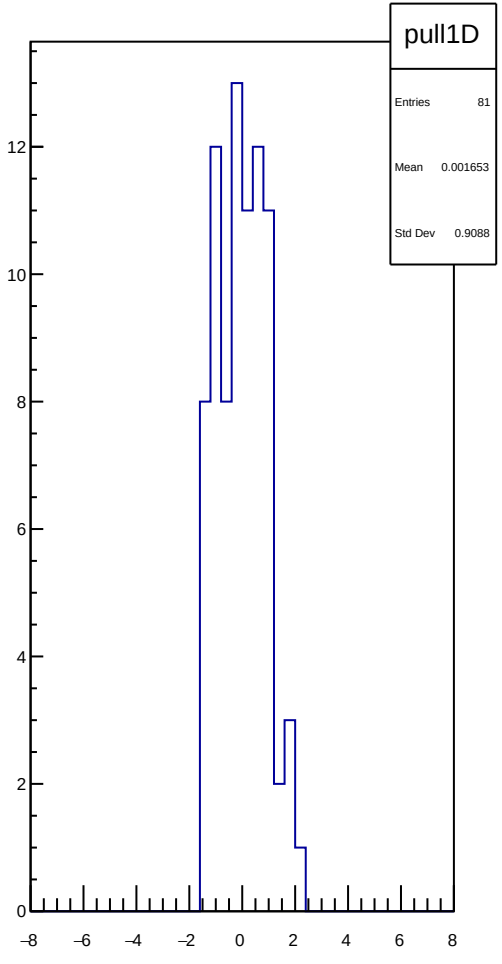

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.505e+04 / 80
p0 1191 ± 0.9576
1500
1400
1300
1200
1100
1000

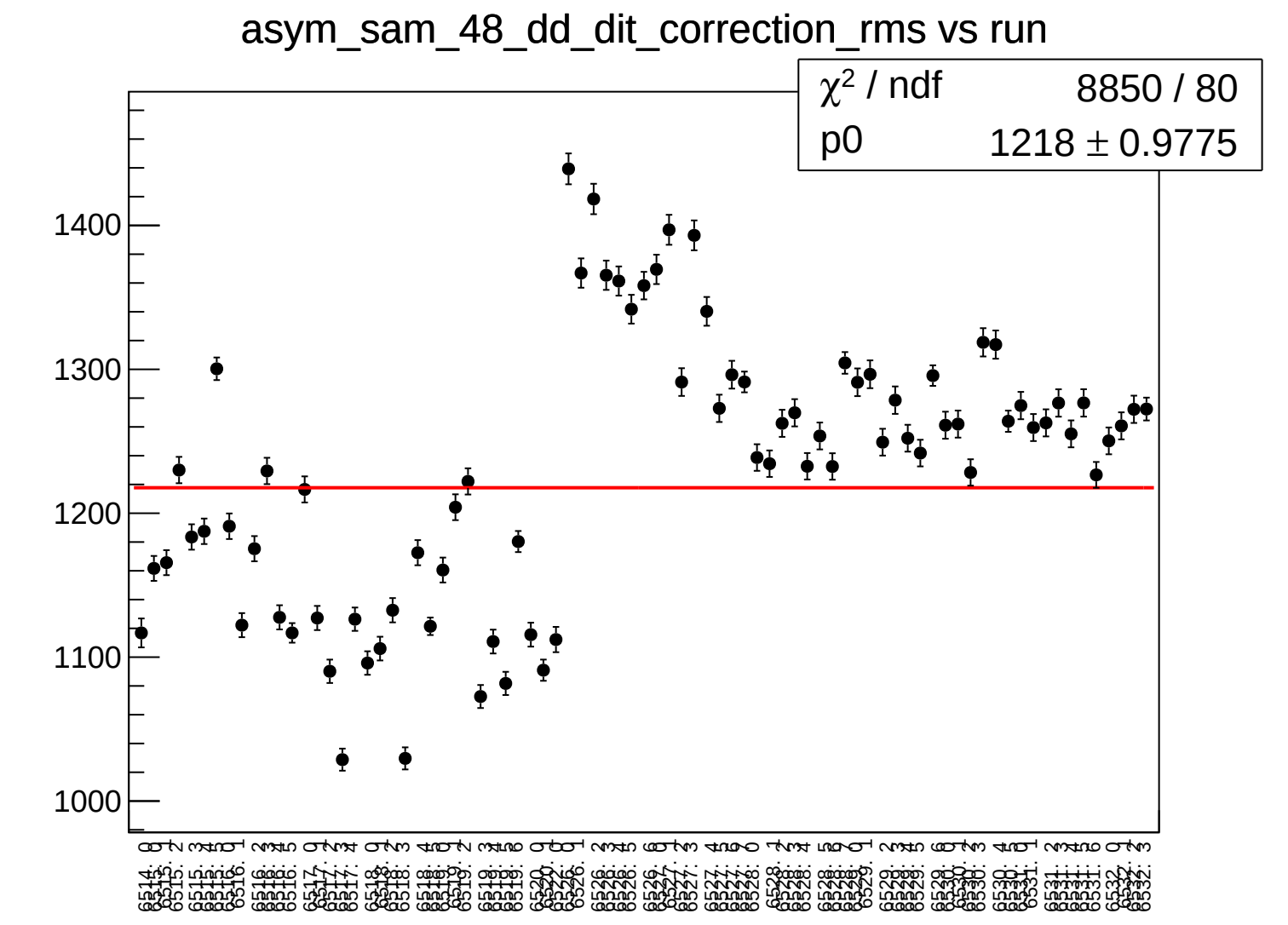

dit_asym_sam_48_dd_mean vs run
χ² / ndf 102.7 / 80
p0 436.2 ± 174.5
pull
Entries 81
Mean 2528
Std Dev 0

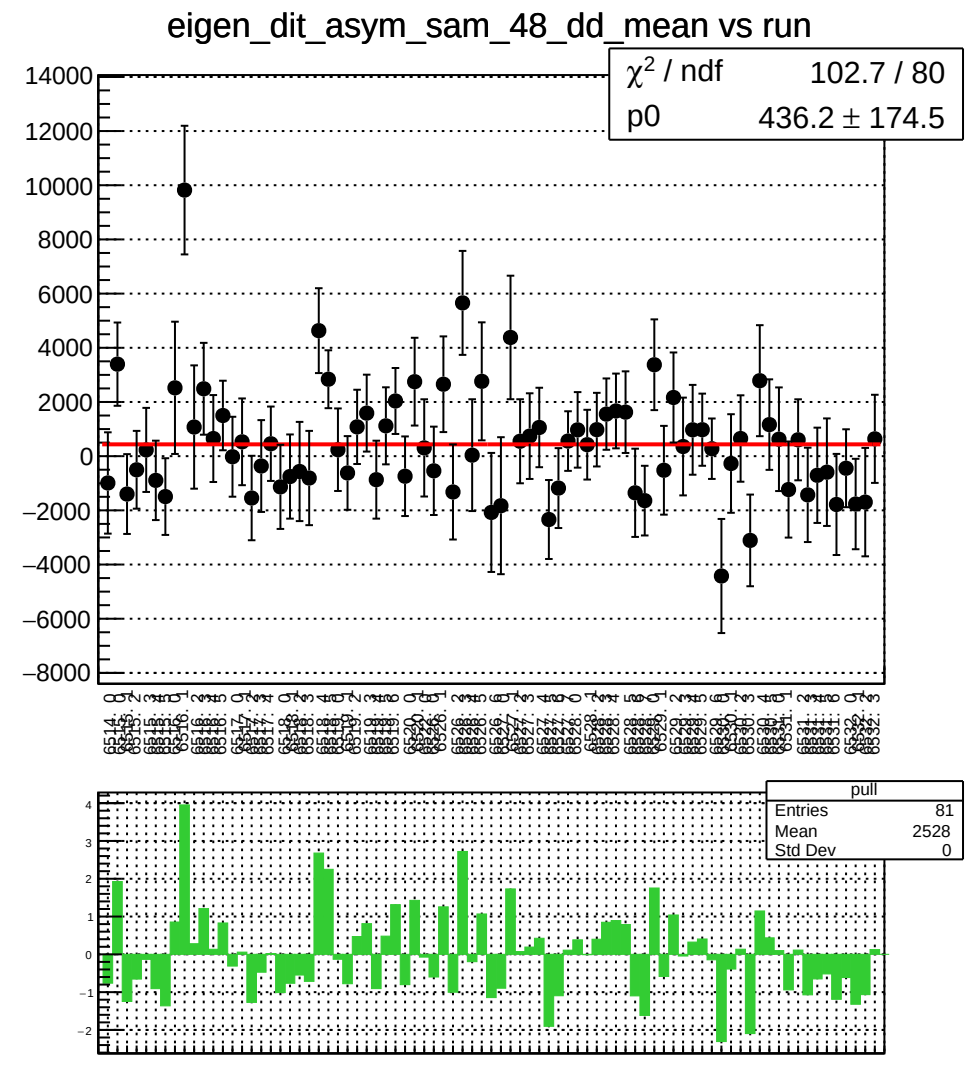

pull1D
Entries 81
Mean −0.001989
Std Dev 1.126

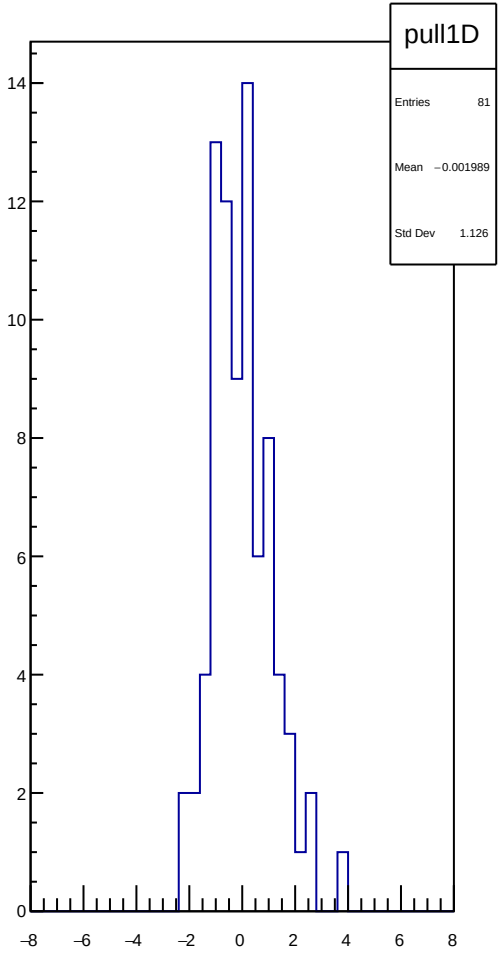

dit_asym_sam_48_dd_rms vs run
χ² / ndf 3.252e+04 / 80
p0 152.6 ± 0.1234
240
220
200
180
160
140
120

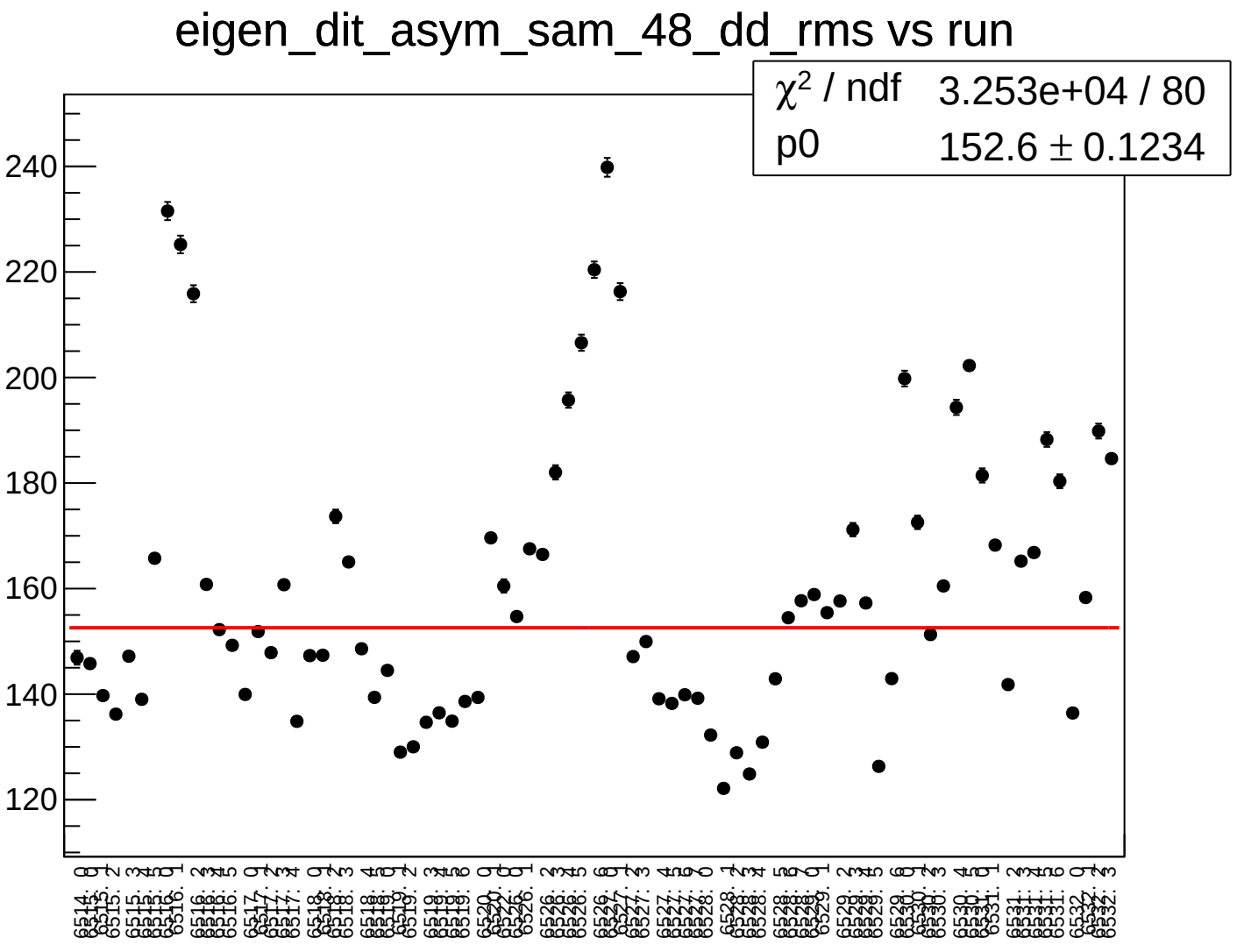

asym_sam_48_dd_dit_correction_mean vs run
χ² / ndf 66.89 / 80
p0 −717.6 ± 1382
pull
Entries 81
Mean 1591
Std Dev 0

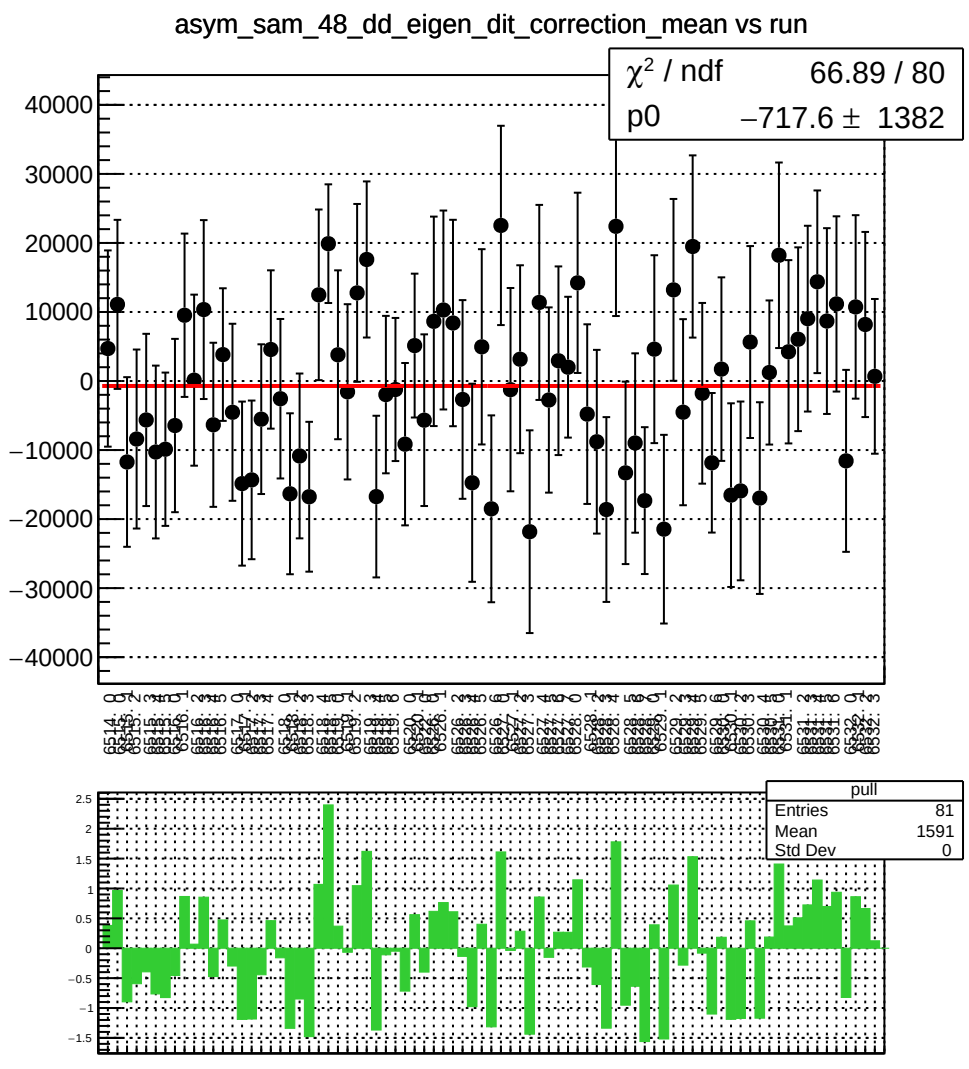

pull1D
Entries 81
Mean 0.001653
Std Dev 0.9088

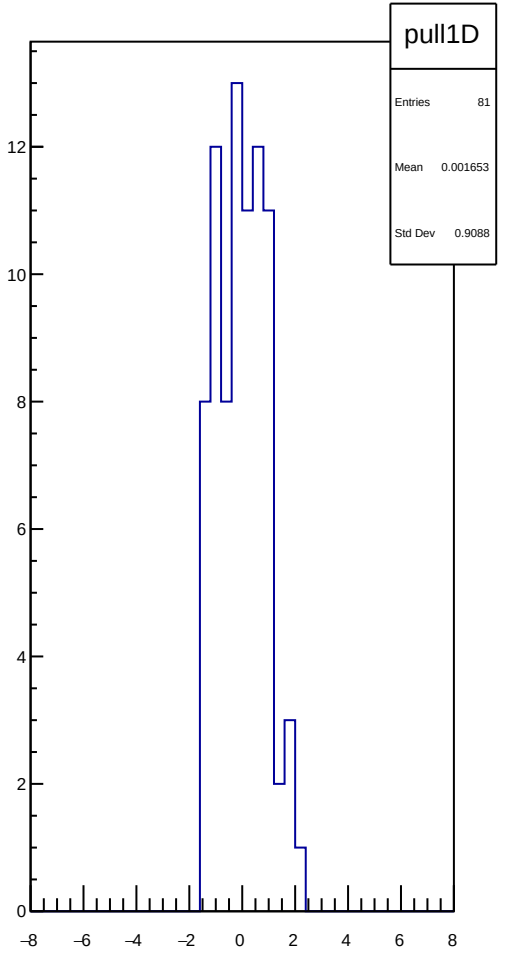

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 8850 / 80
p0 1218 ± 0.9775
1400
1300
1200
1100
1000

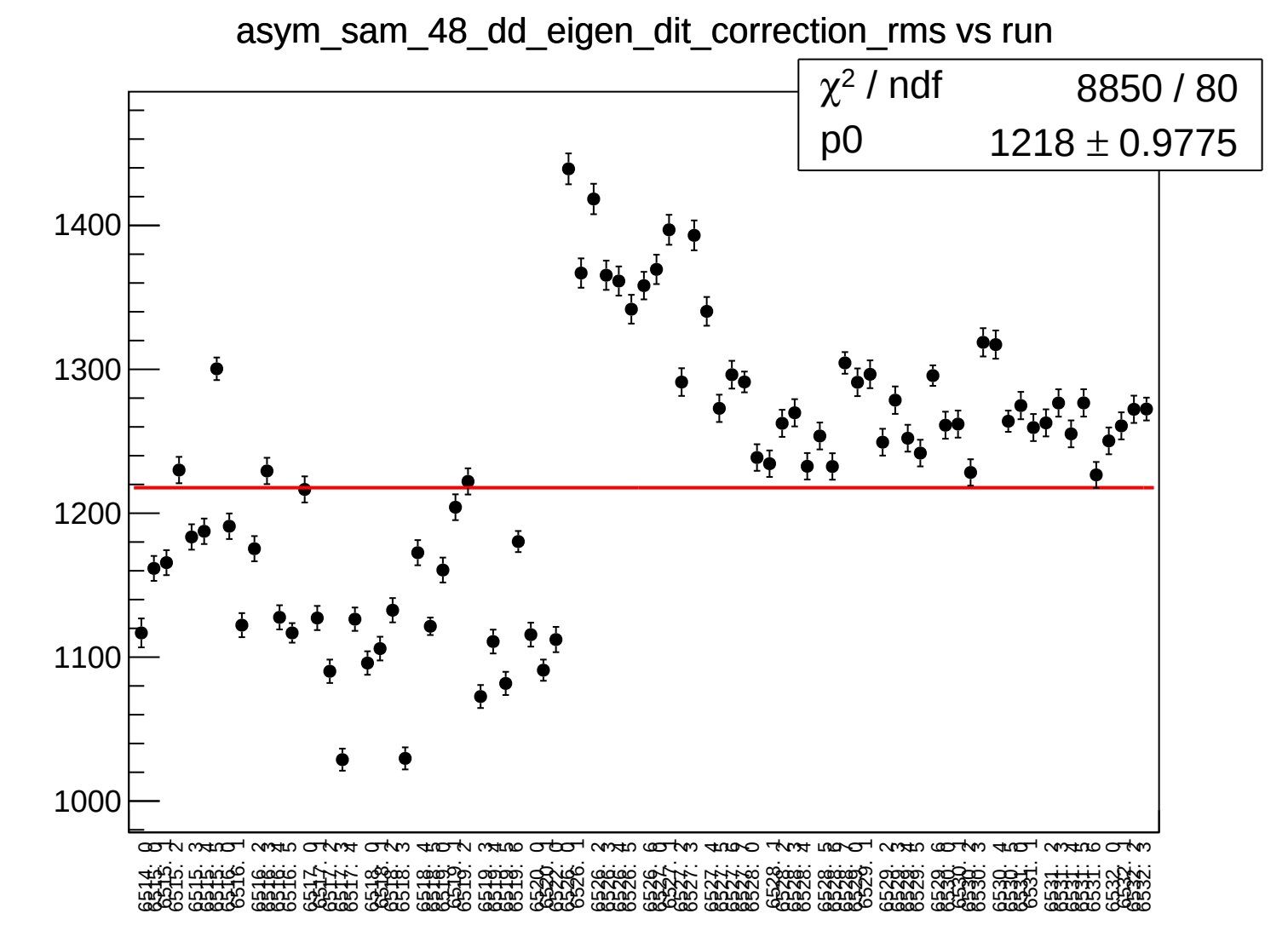

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 102.7 / 80
p0 436.2 ± 174.5
pull
Entries 81
Mean 2528
Std Dev 0

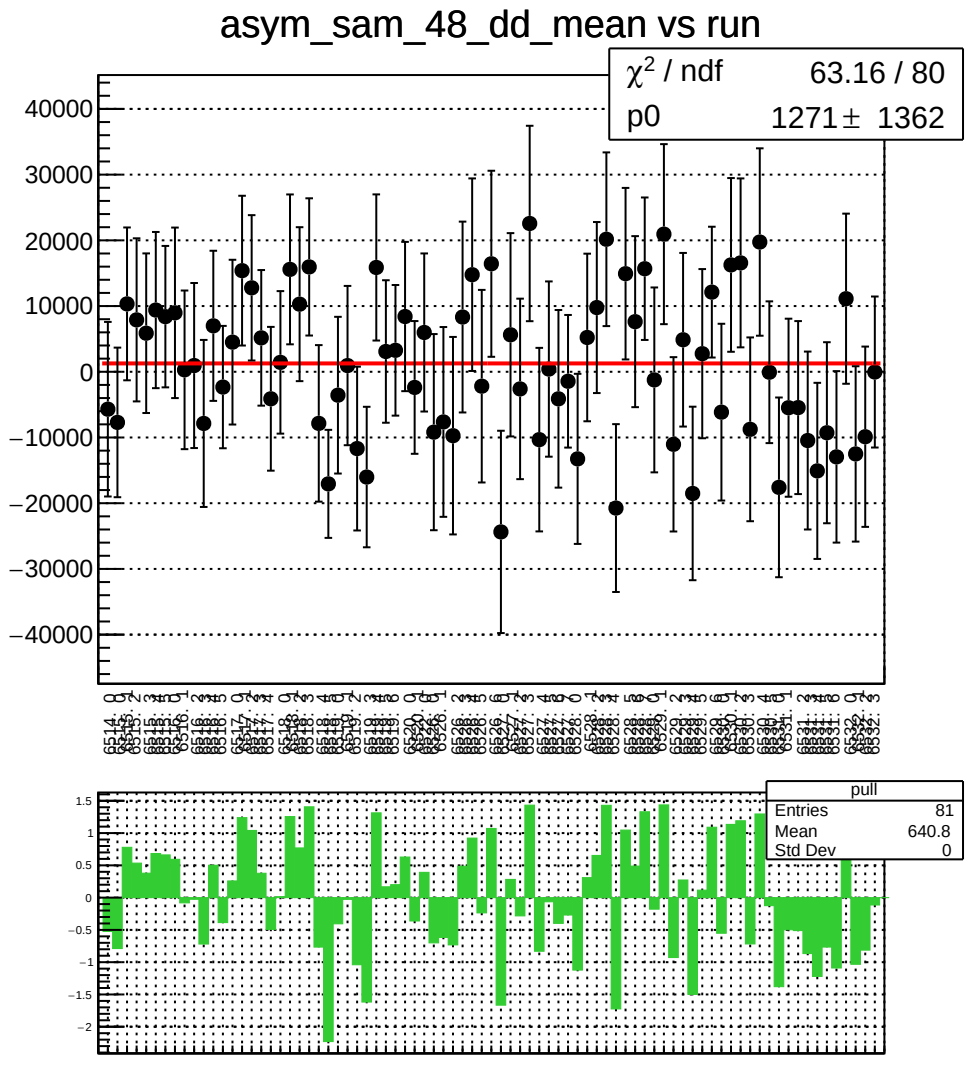

pull1D
Entries 81
Mean −0.001989
Std Dev 1.126

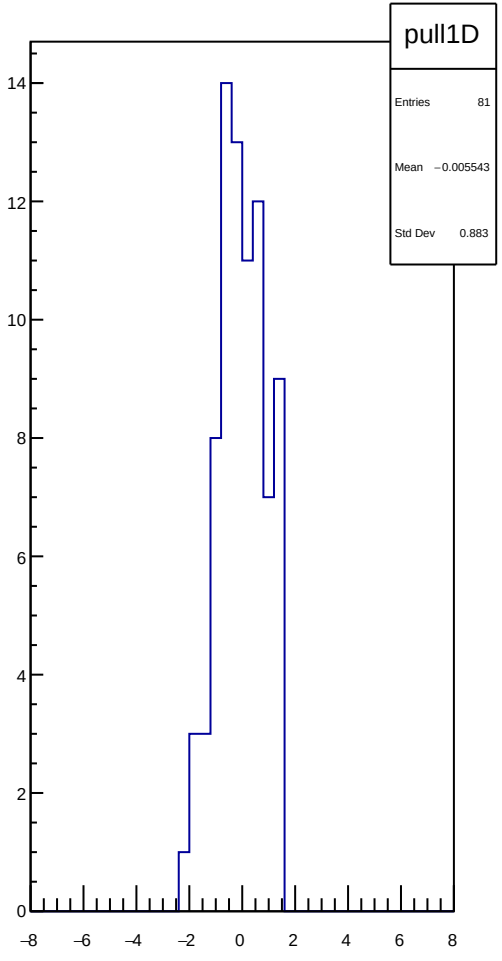

eigen_dit_asym_sam_48_dd_rms vs run
χ² / ndf 3.253e+04 / 80
p0 152.6 ± 0.1234
240
220
200
180
160
140
120

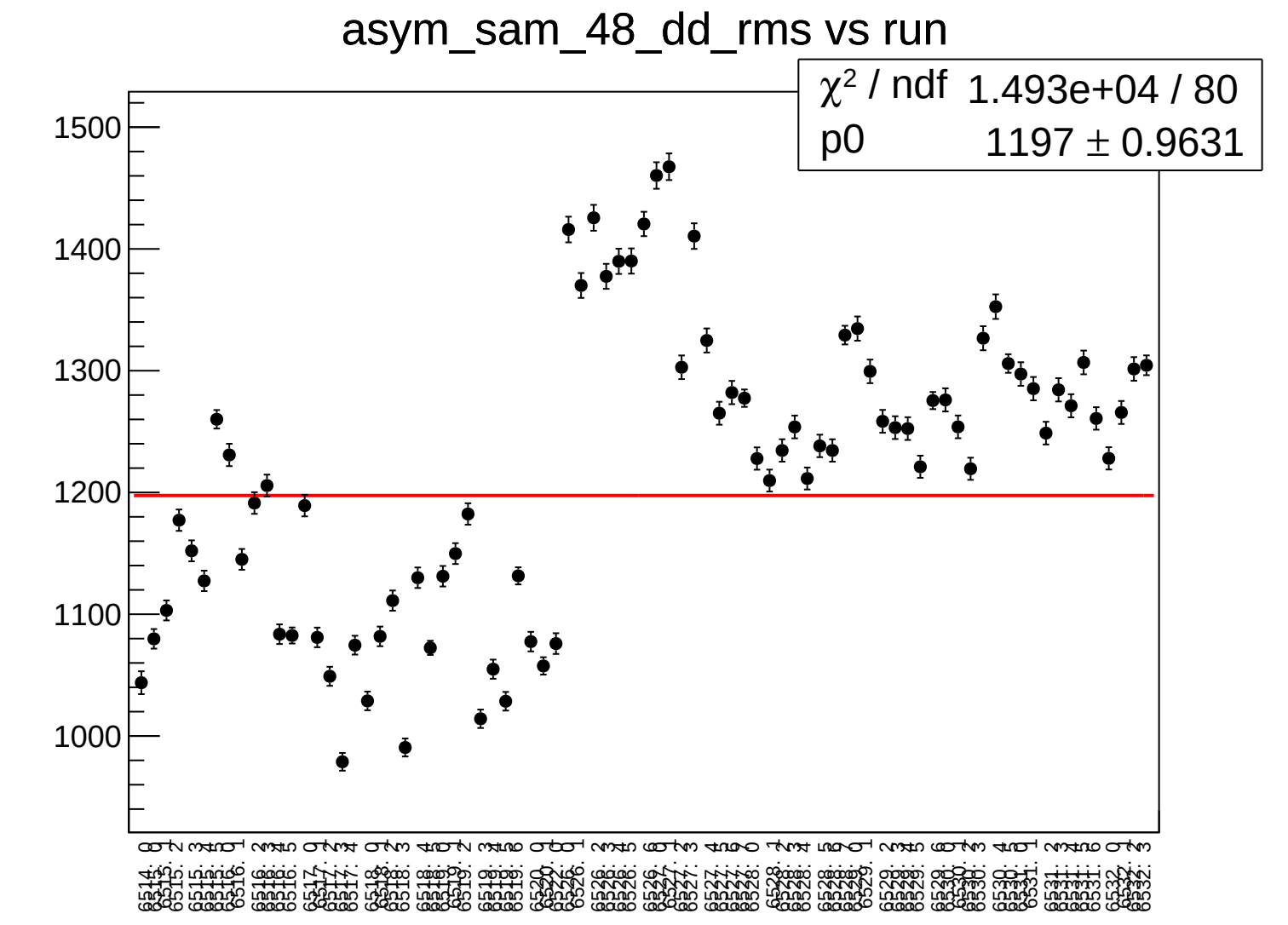

asym_sam_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 66.89 / 80
p0 −717.6 ± 1382
pull
Entries 81
Mean 1591
Std Dev 0

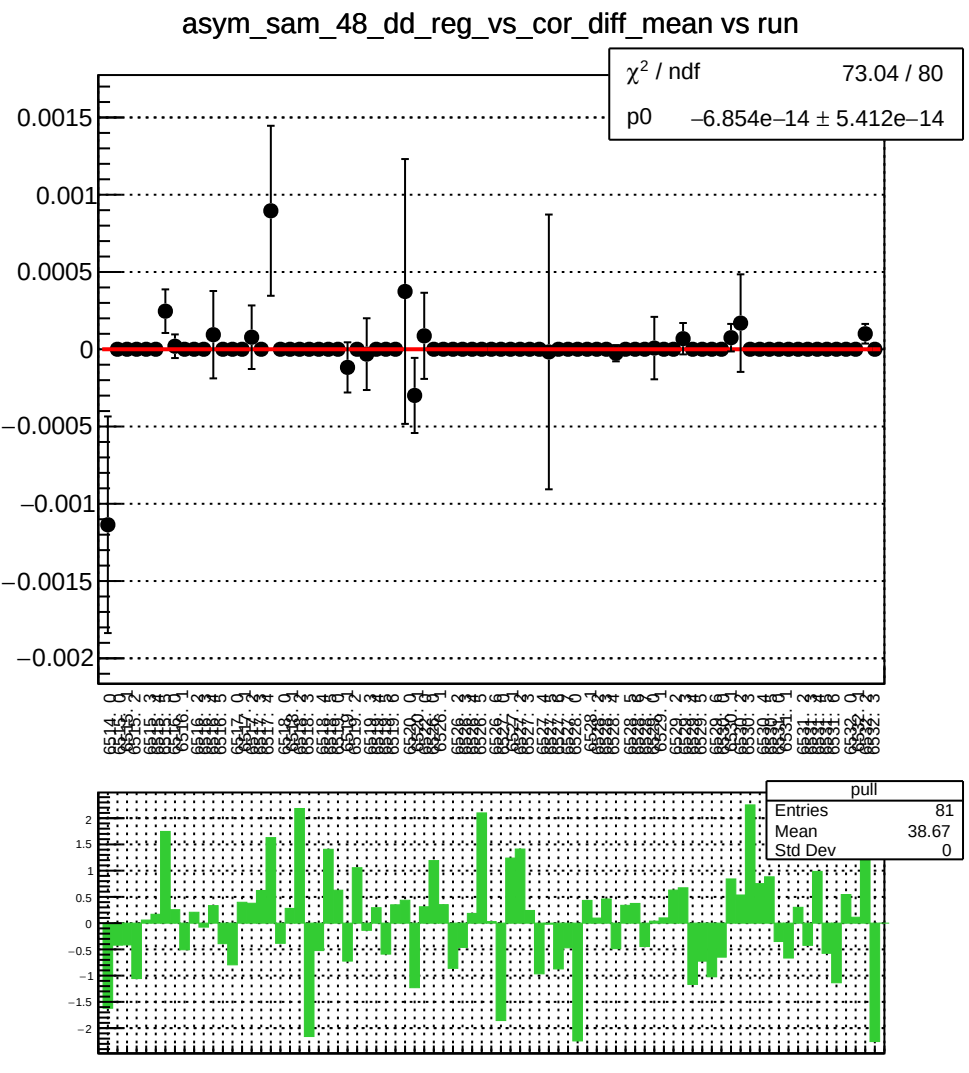

pull1D
Entries 81
Mean 0.001653
Std Dev 0.9088

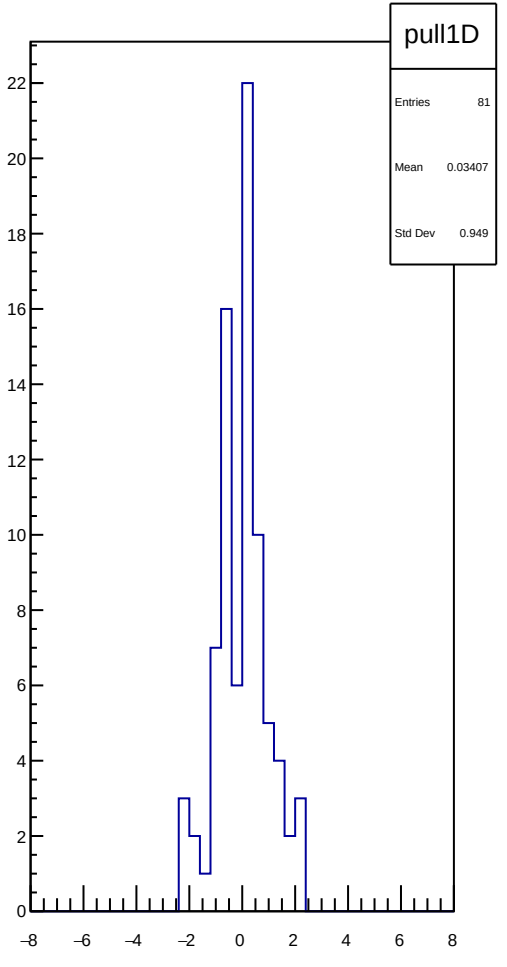

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 8850 / 80
p0 1218 ± 0.9775
1400
1300
1200
1100
1000

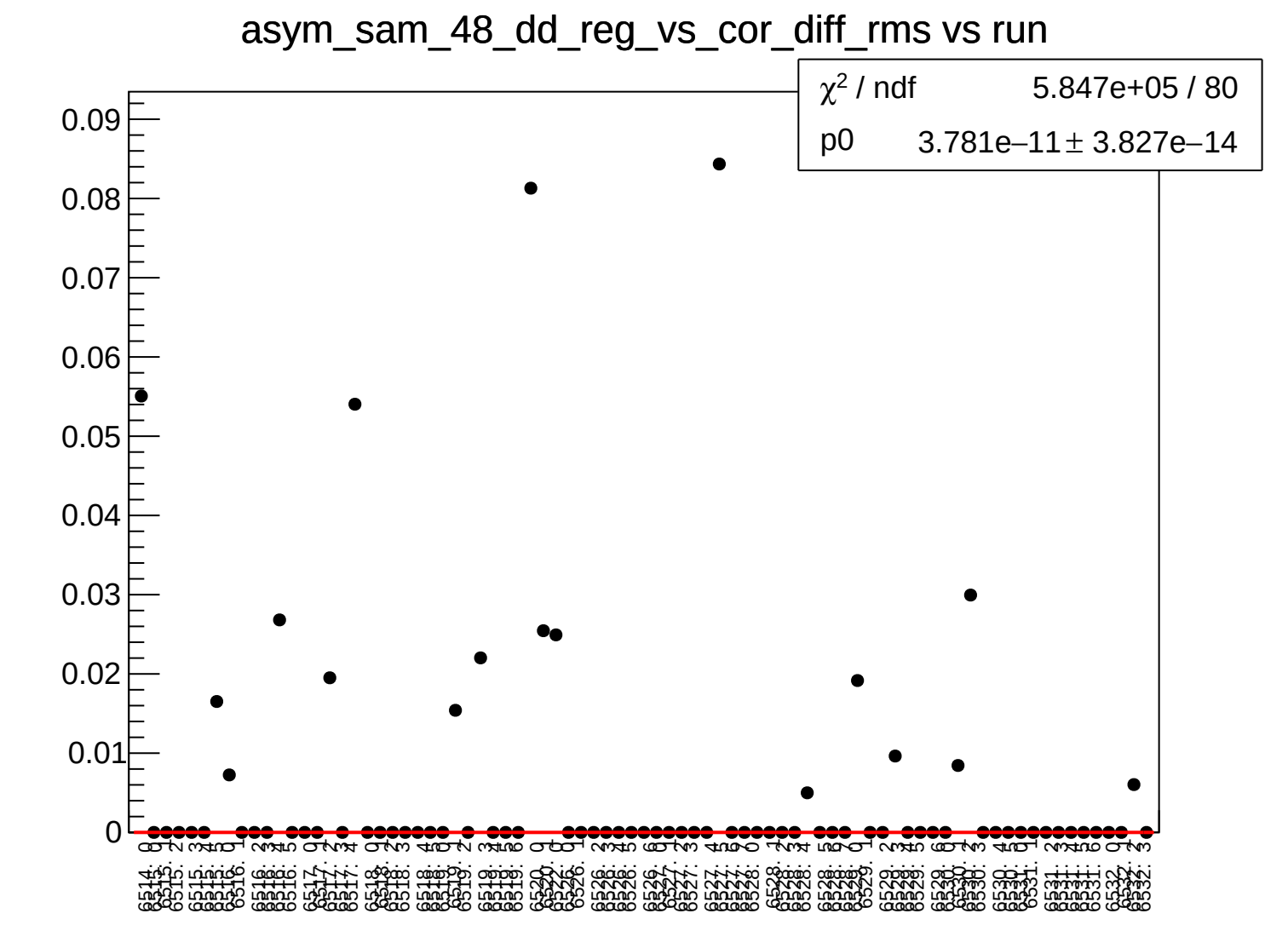

asym_sam_48_dd_mean vs run
χ² / ndf 63.16 / 80
p0 1271 ± 1362
pull
Entries 81
Mean 640.8
Std Dev 0

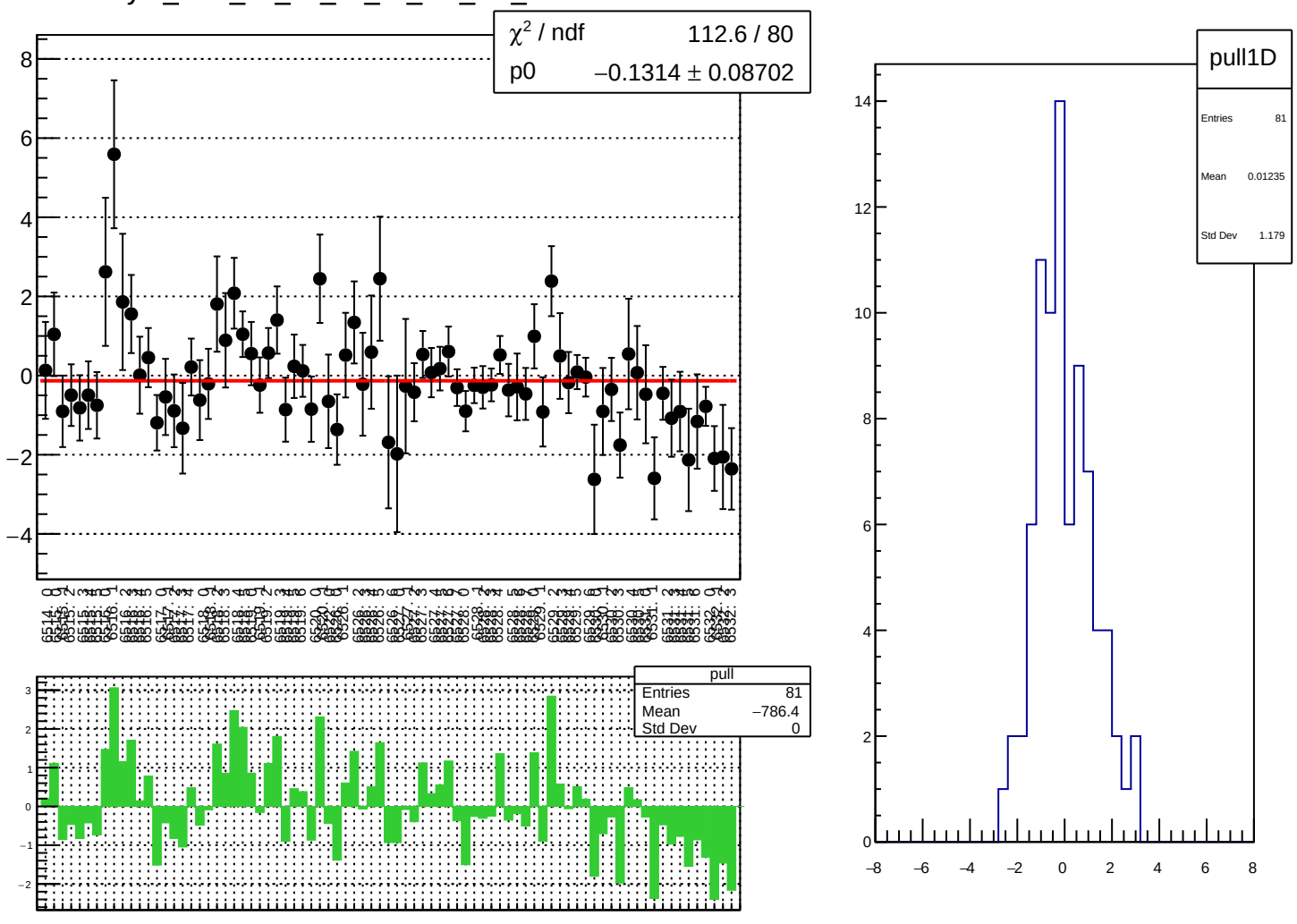

pull1D
Entries 81
Mean −0.005543
Std Dev 0.883

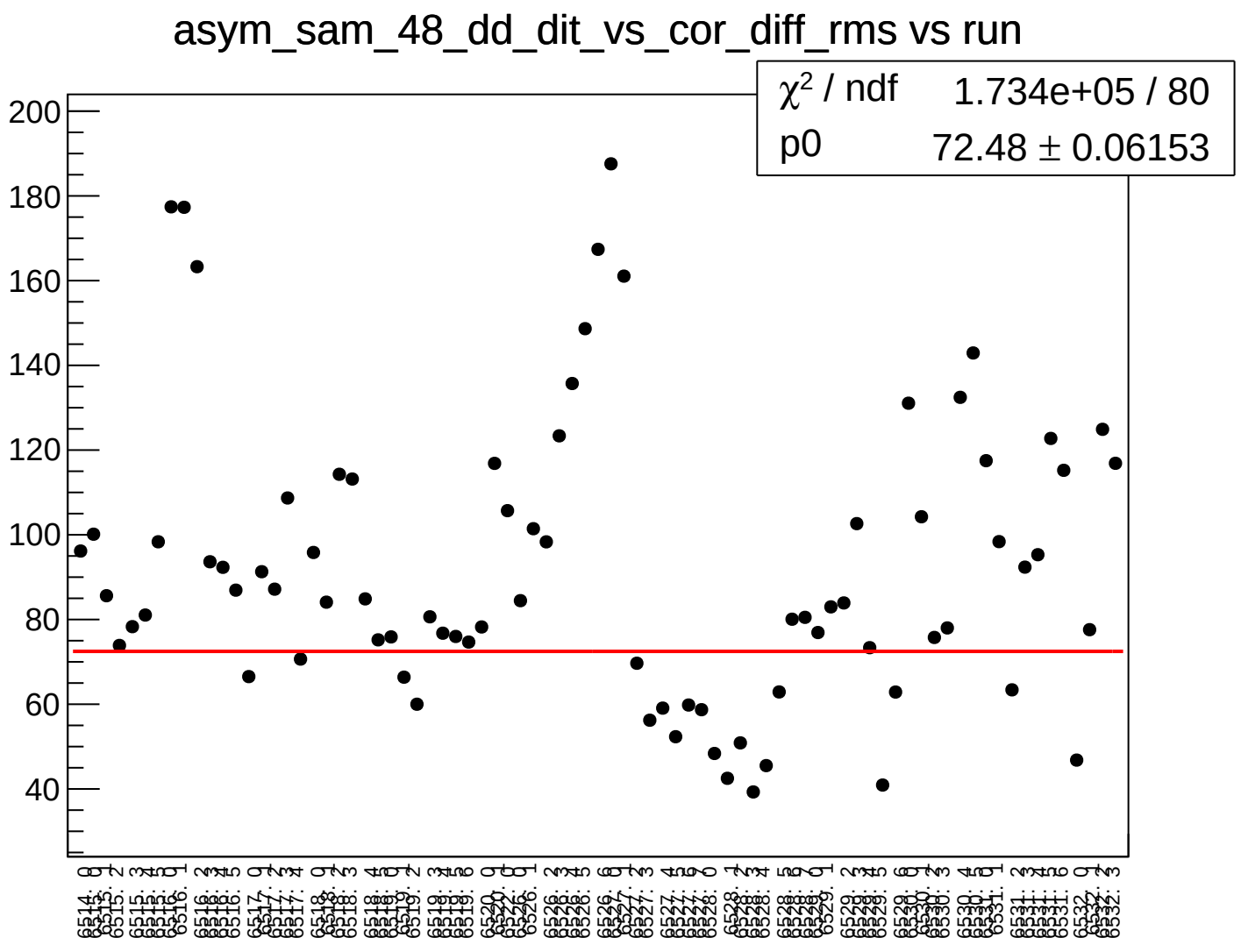

asym_sam_48_dd_rms vs run
χ² / ndf 1.493e+04 / 80
p0 1197 ± 0.9631
1500
1400
1300
1200
1100
1000

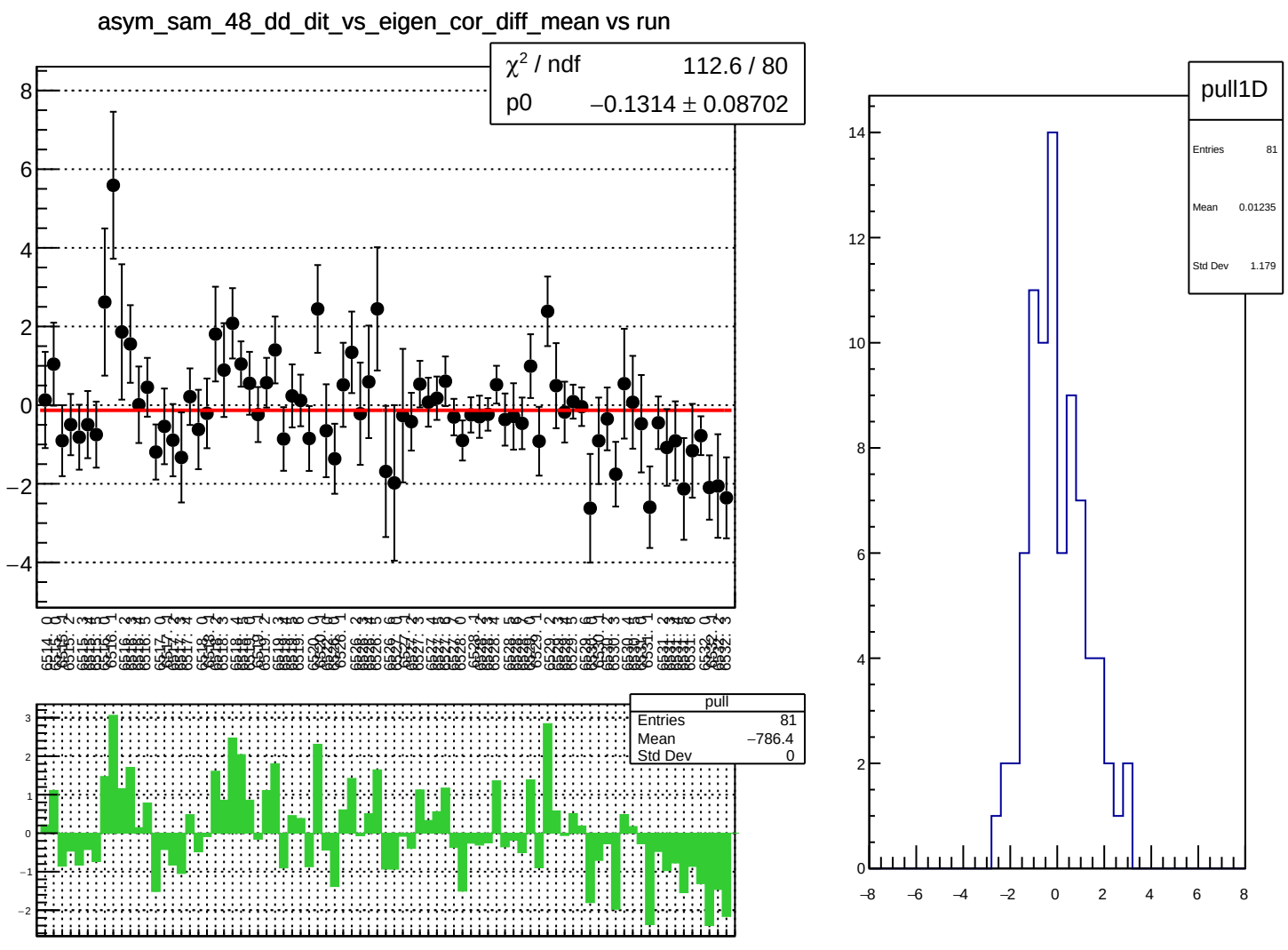

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 73.04 / 80
p0 −6.854e−14 ± 5.412e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 81
Mean 38.67
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

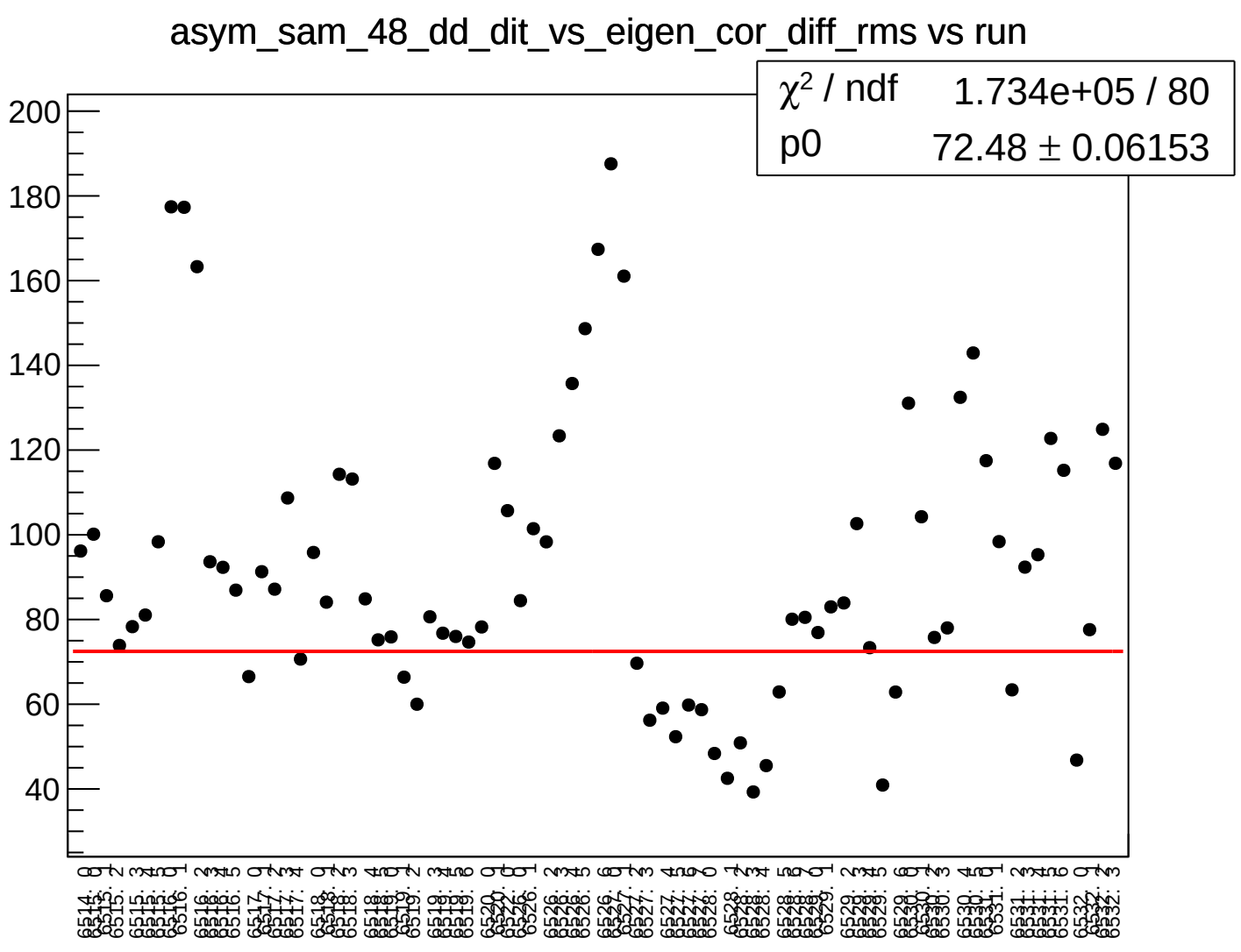

pull1D
Entries 81
Mean 0.03407
Std Dev 0.949
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

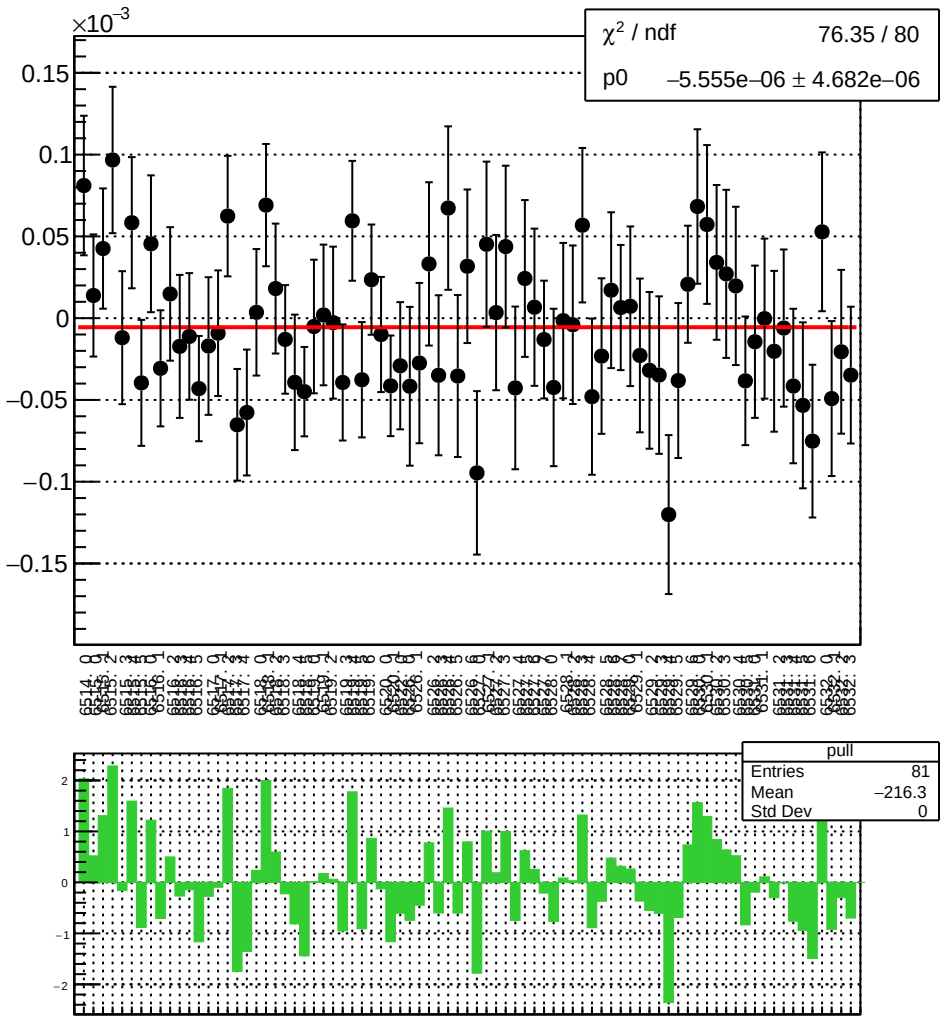

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.847e+05 / 80
p0 3.781e−11 ± 3.827e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

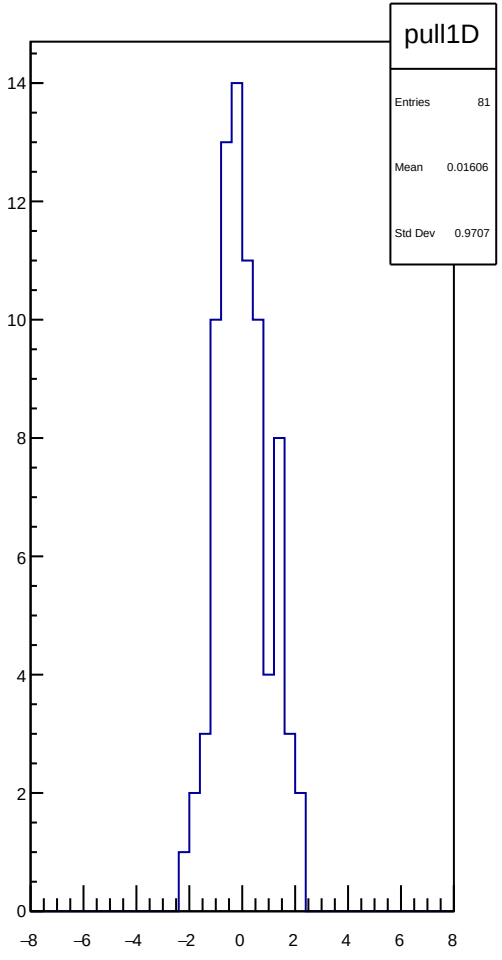

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 112.6 / 80
p0 −0.1314 ± 0.08702
pull
Entries 81
Mean −786.4
Std Dev 0
pull1D
Entries 81
Mean 0.01235
Std Dev 1.179

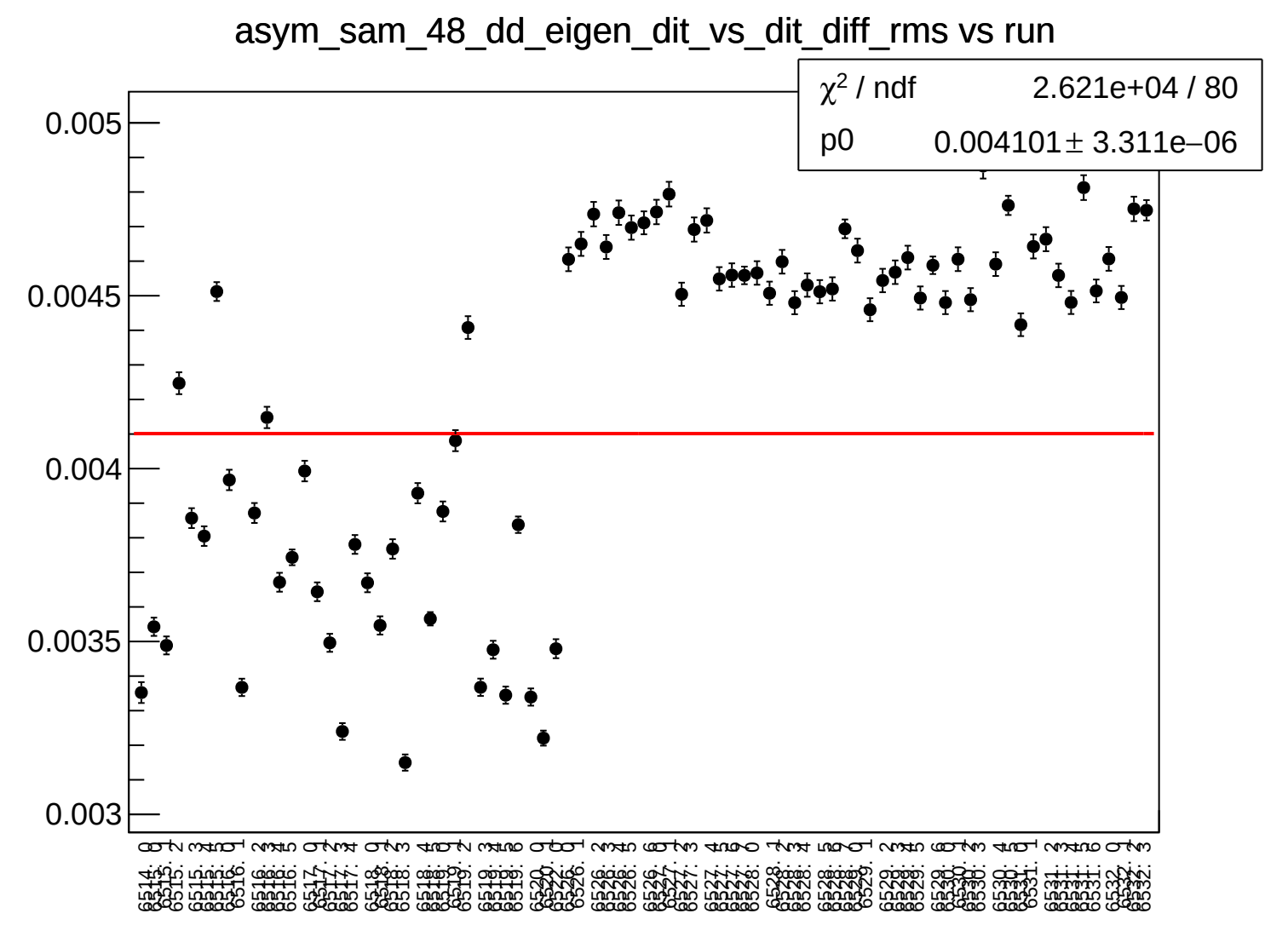

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.734e+05 / 80
p0 72.48 ± 0.06153
200
180
160
140
120
100
80
60
40

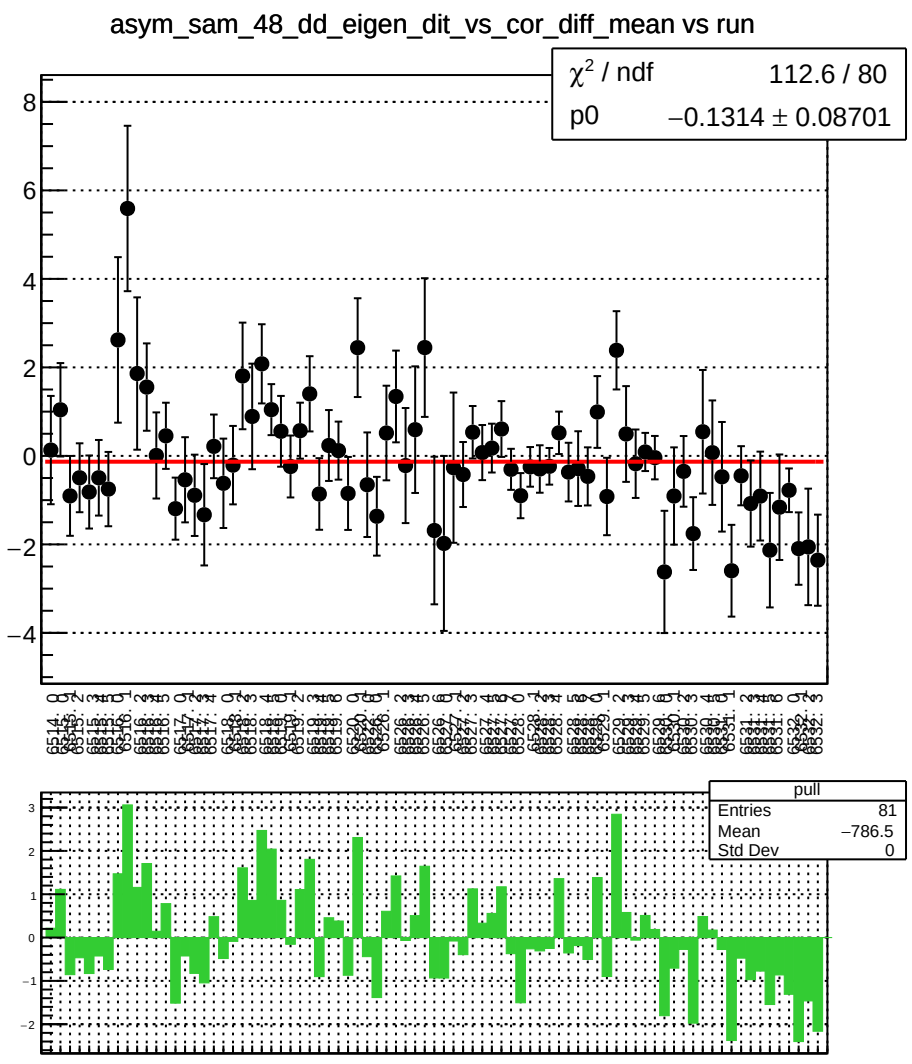

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.6 / 80
p0 −0.1314 ± 0.08702
pull
Entries 81
Mean −786.4
Std Dev 0
pull1D
Entries 81
Mean 0.01235
Std Dev 1.179

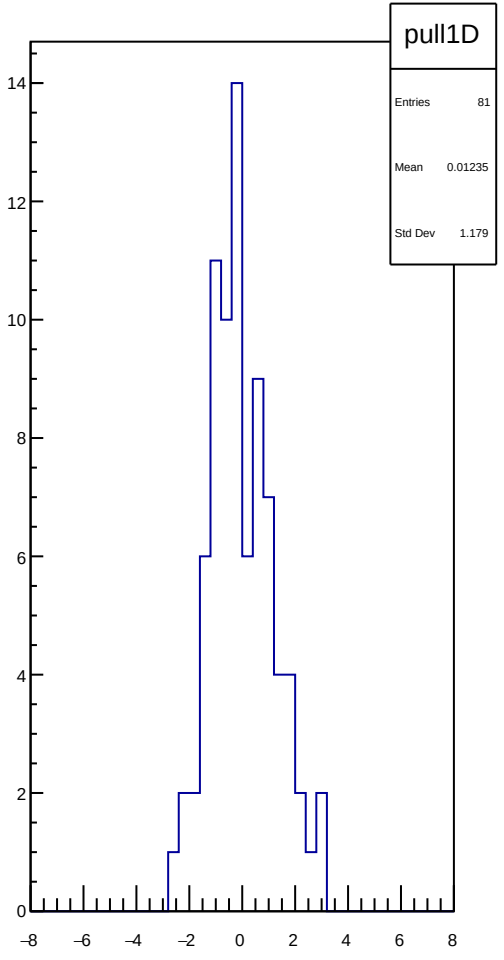

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.734e+05 / 80
p0 72.48 ± 0.06153
200
180
160
140
120
100
80
60
40

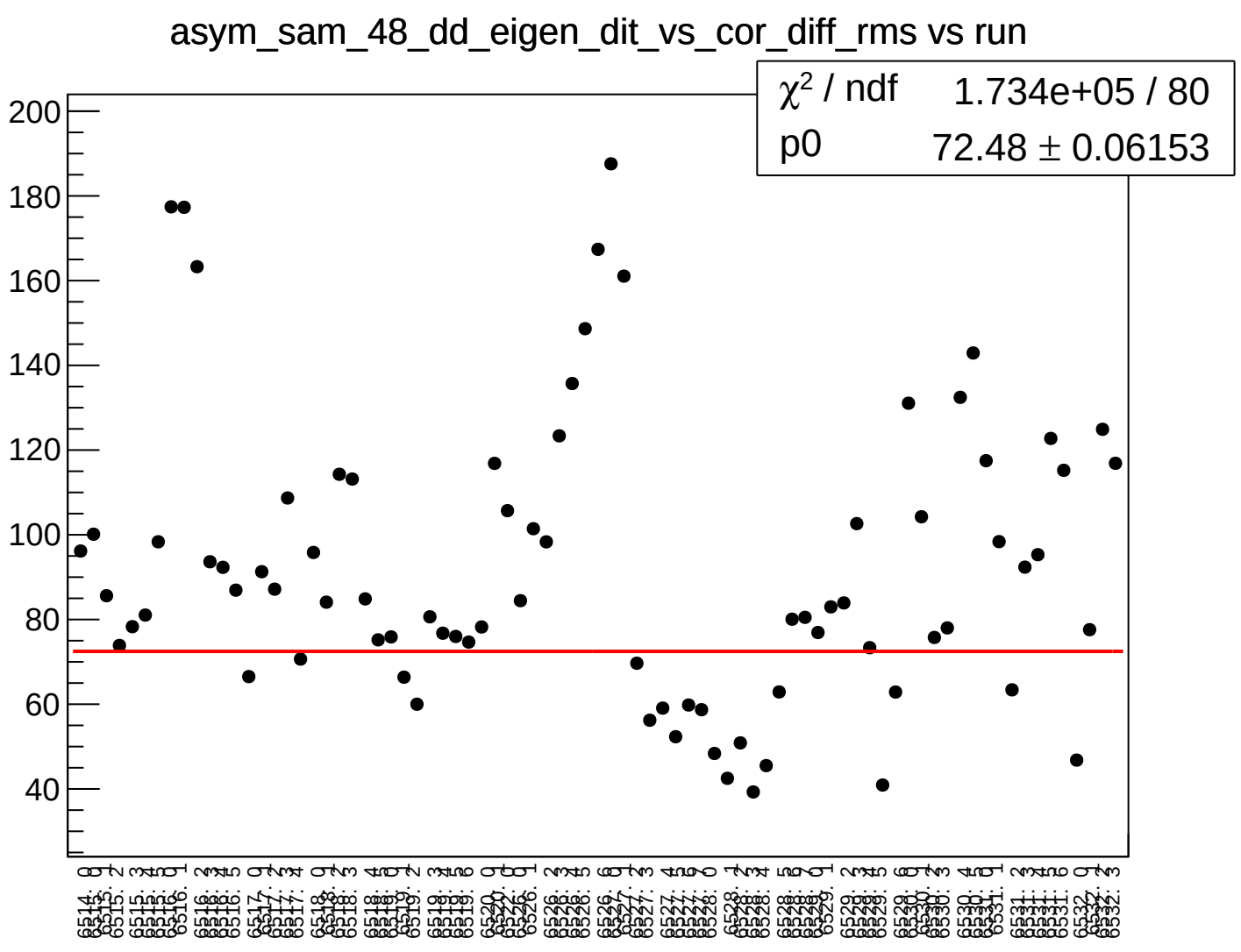

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.35 / 80
p0 −5.555e−06 ± 4.682e−06
pull
Entries 81
Mean −216.3
Std Dev 0

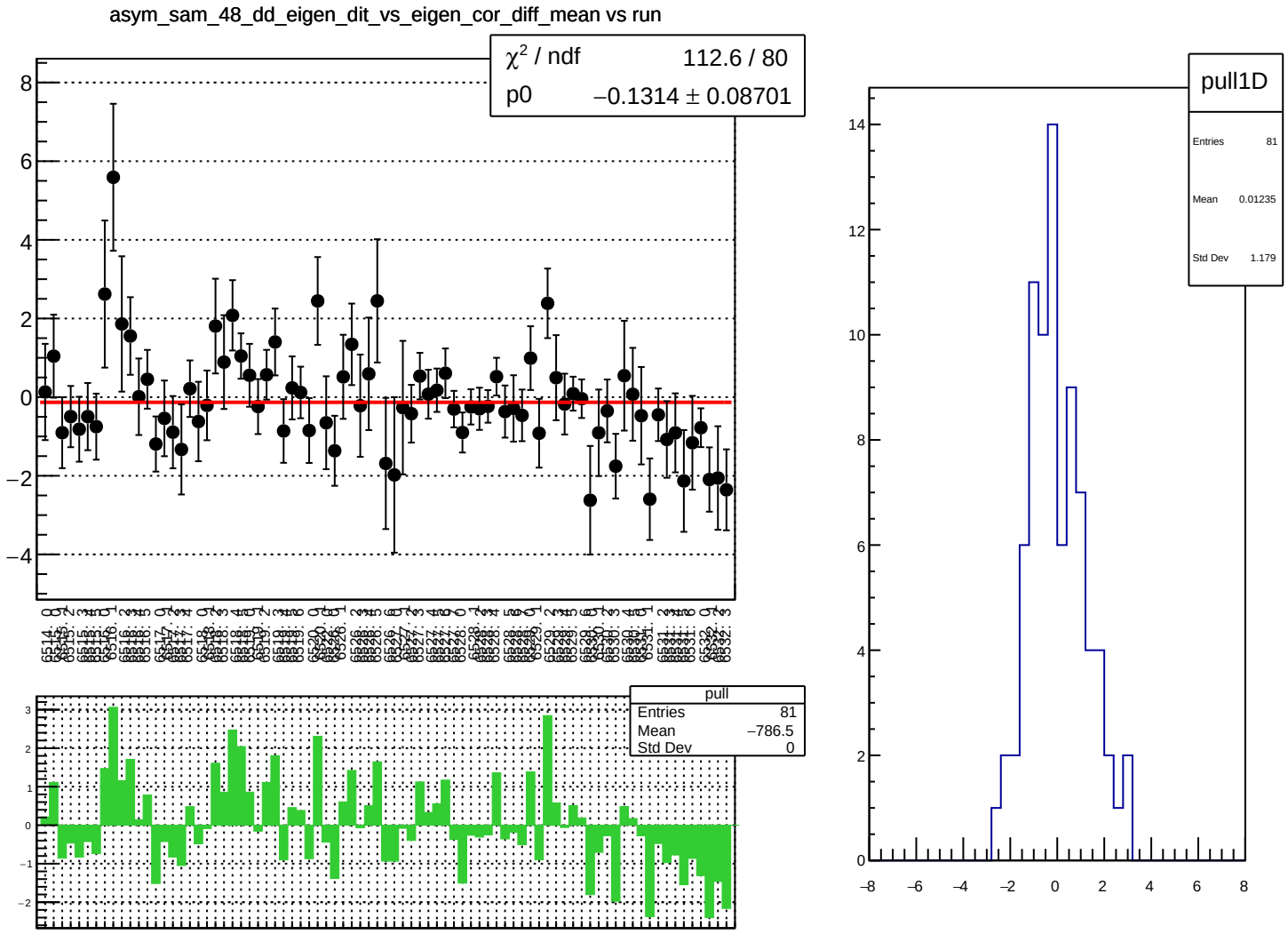

pull1D
Entries 81
Mean 0.01606
Std Dev 0.9707

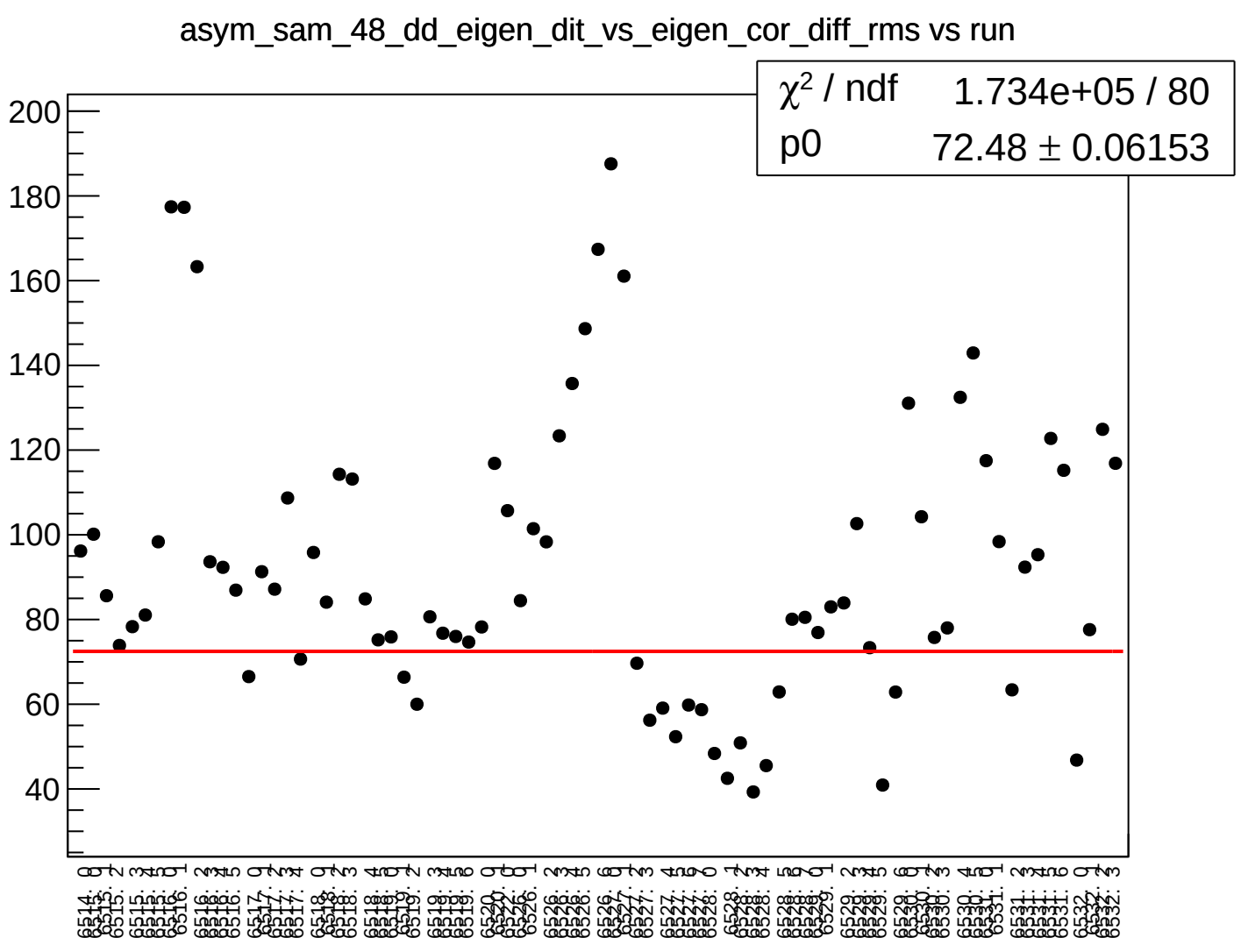

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.621e+04 / 80
p0 0.004101 ± 3.311e−06
0.005
0.0045
0.004
0.0035
0.003

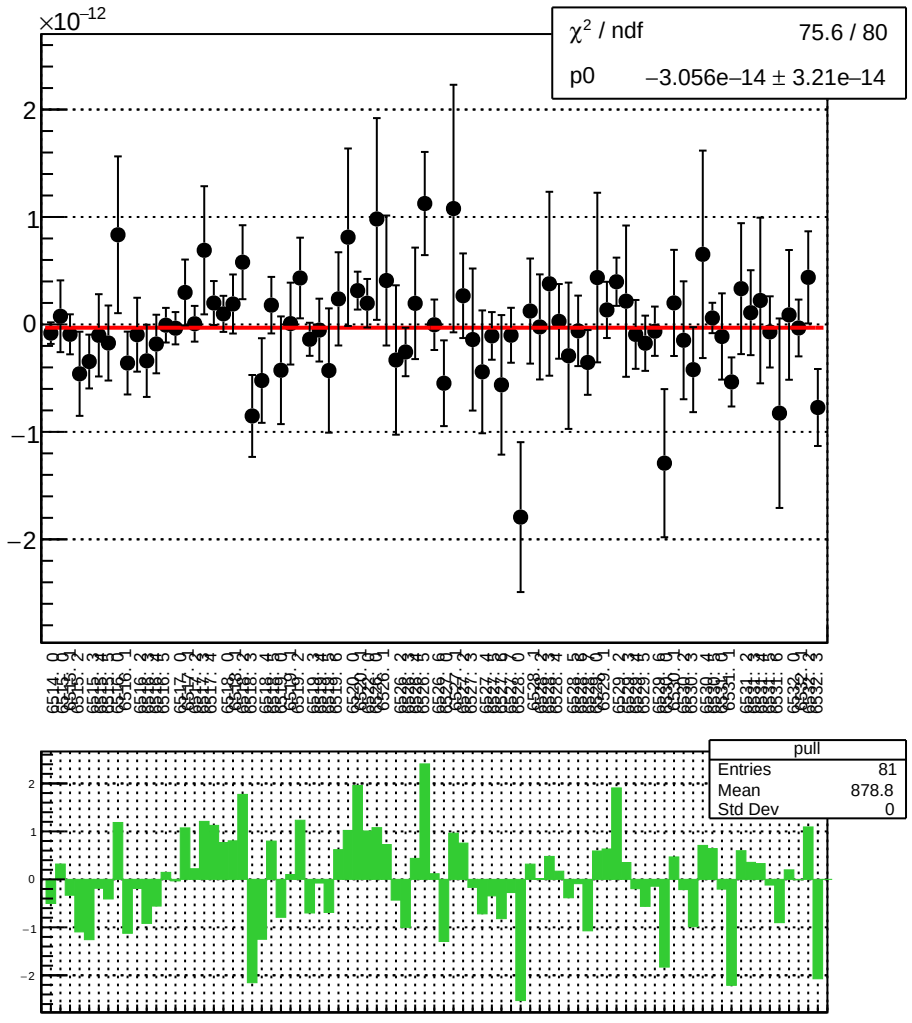

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 112.6 / 80
p0 −0.1314 ± 0.08701
pull
Entries 81
Mean −786.5
Std Dev 0

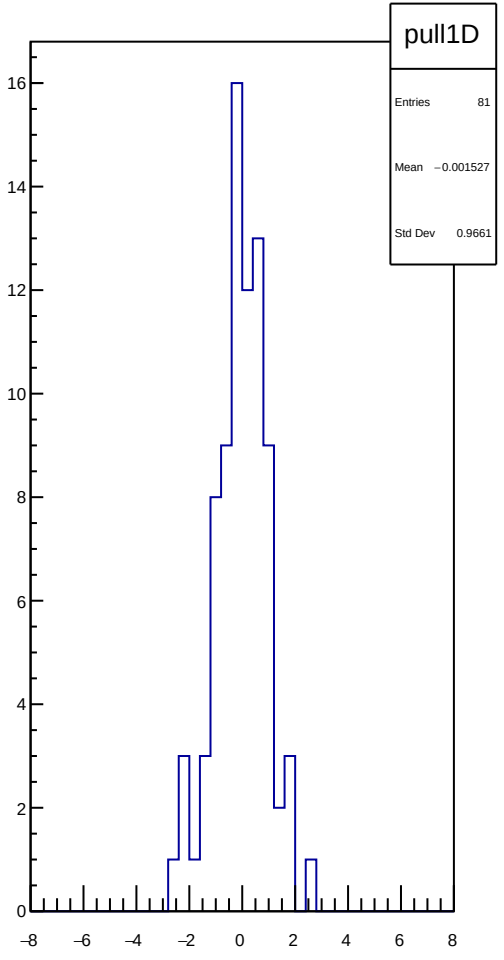

pull1D
Entries 81
Mean 0.01235
Std Dev 1.179

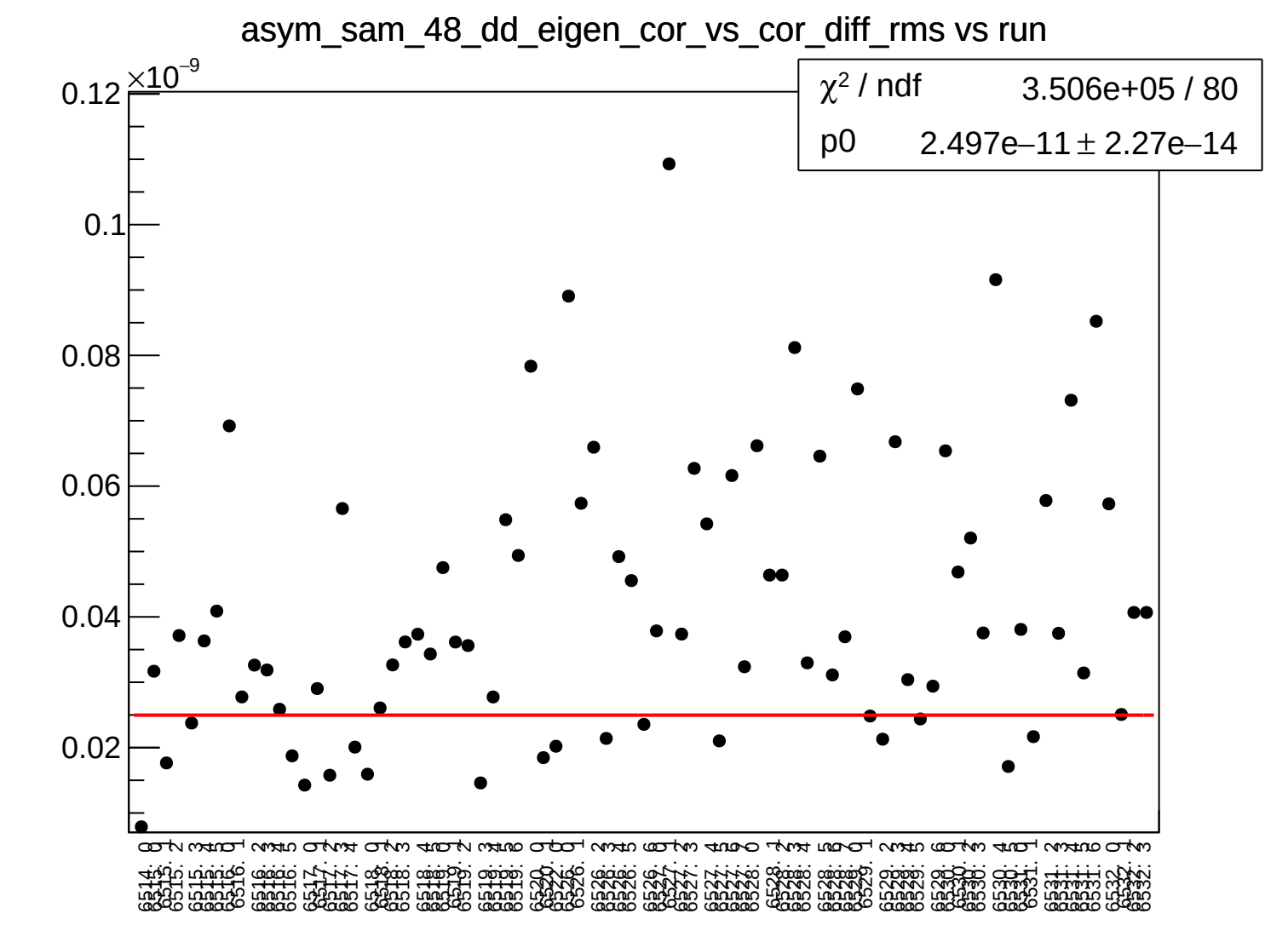

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.734e+05 / 80
p0 72.48 ± 0.06153
200
180
160
140
120
100
80
60
40

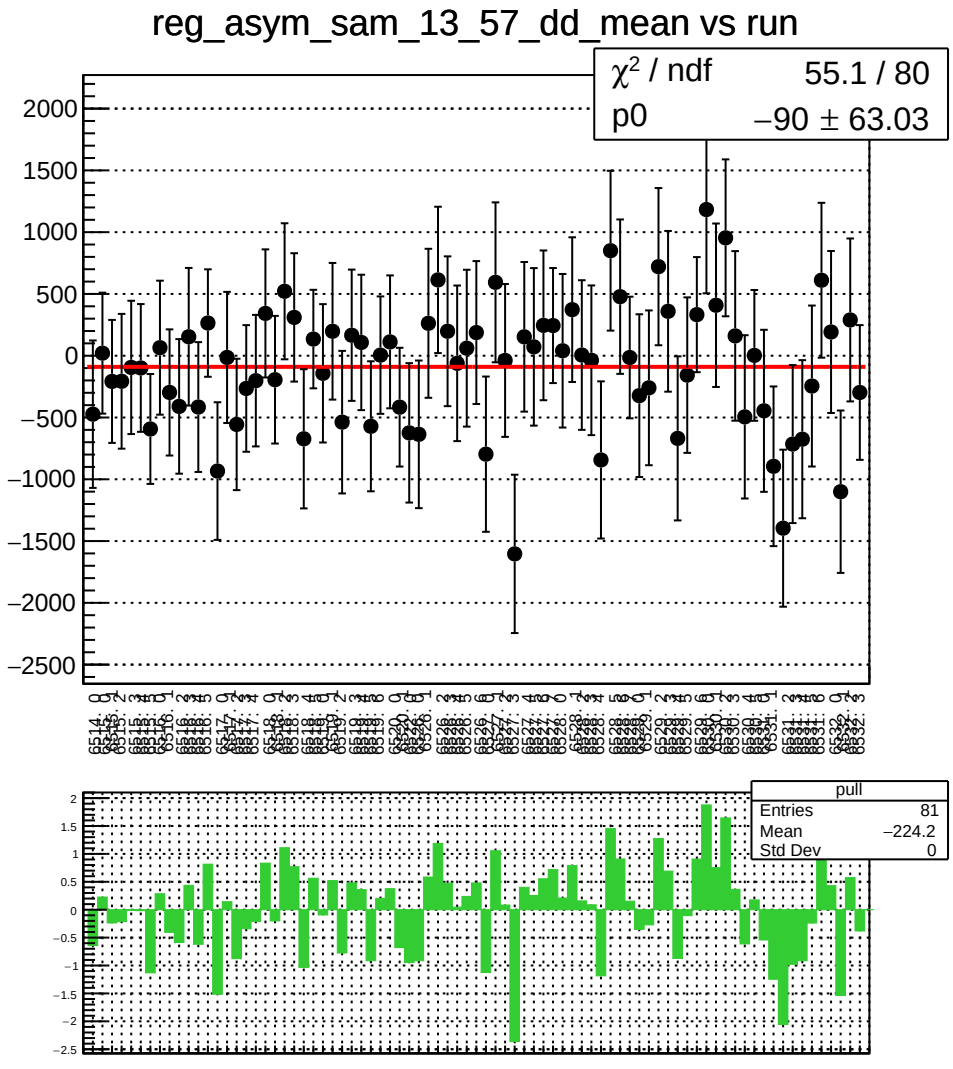

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.6 / 80
p0 −0.1314 ± 0.08701
pull
Entries 81
Mean −786.5
Std Dev 0
pull1D
Entries 81
Mean 0.01235
Std Dev 1.179

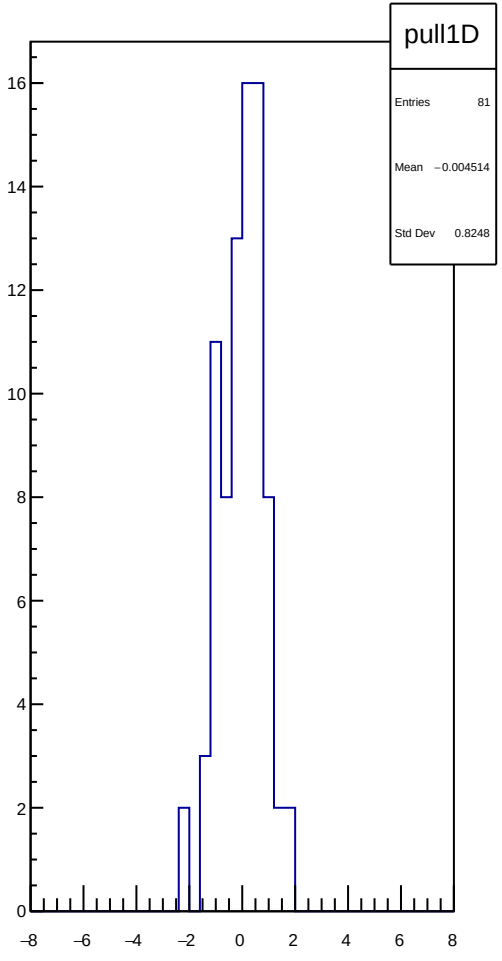

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.734e+05 / 80
p0 72.48 ± 0.06153
200
180
160
140
120
100
80
60
40

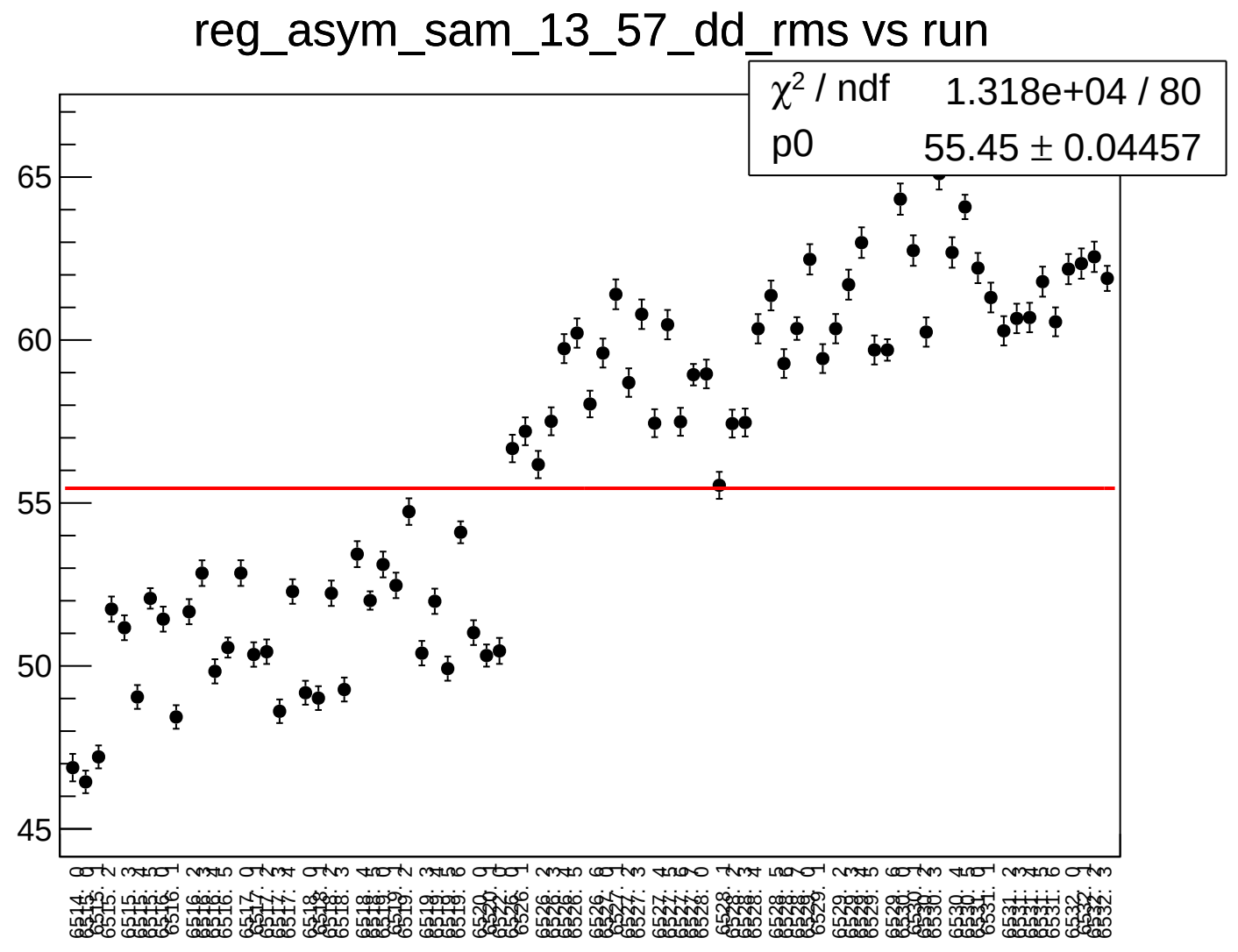

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.6 / 80
p0 −3.056e−14 ± 3.21e−14
pull
Entries 81
Mean 878.8
Std Dev 0

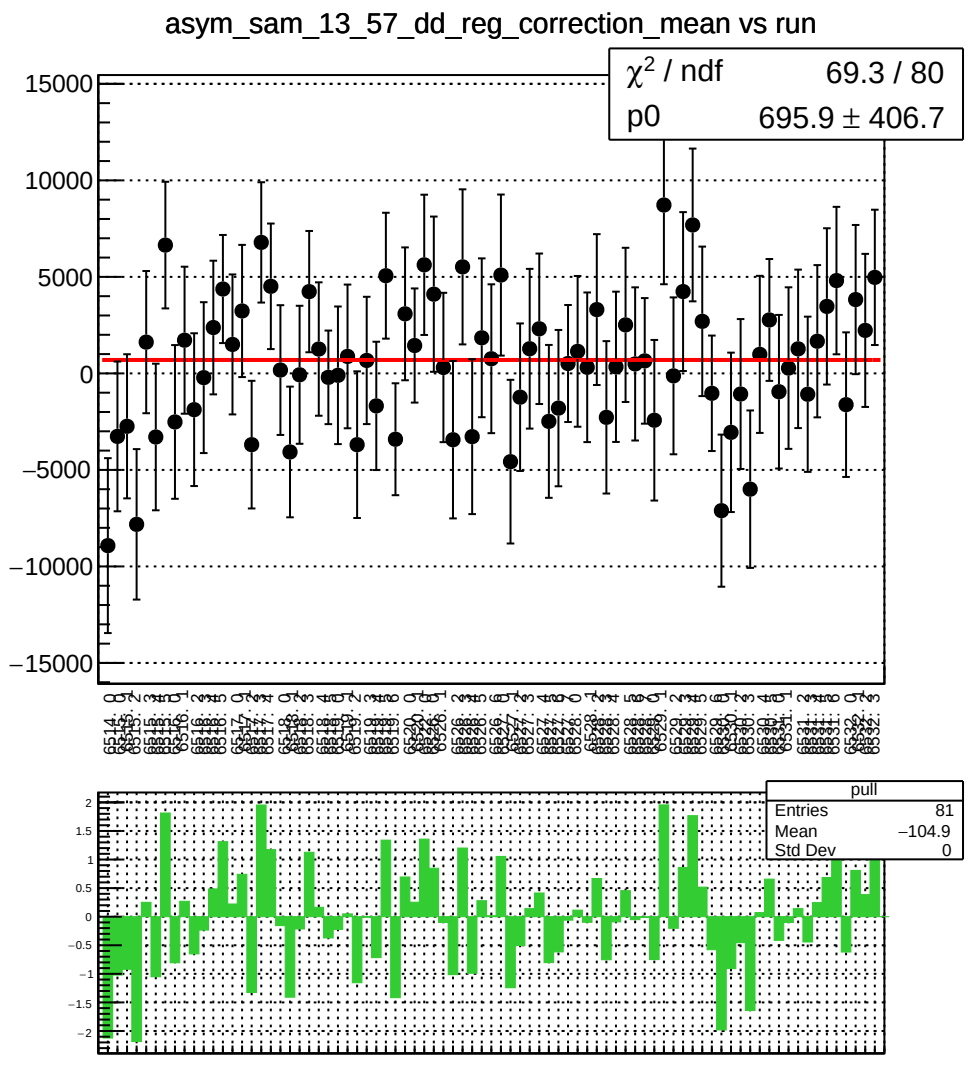

pull1D
Entries 81
Mean −0.001527
Std Dev 0.9661

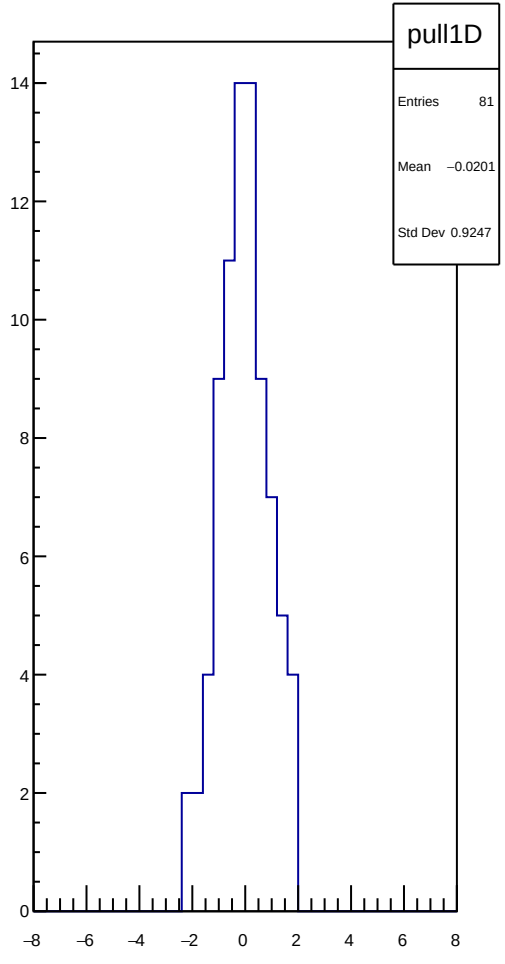

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
χ^2 / ndf 3.506e+05 / 80
p0 2.497e−11 ± 2.27e−14
×10⁻⁹
0.12
0.1
0.08
0.06
0.04
0.02

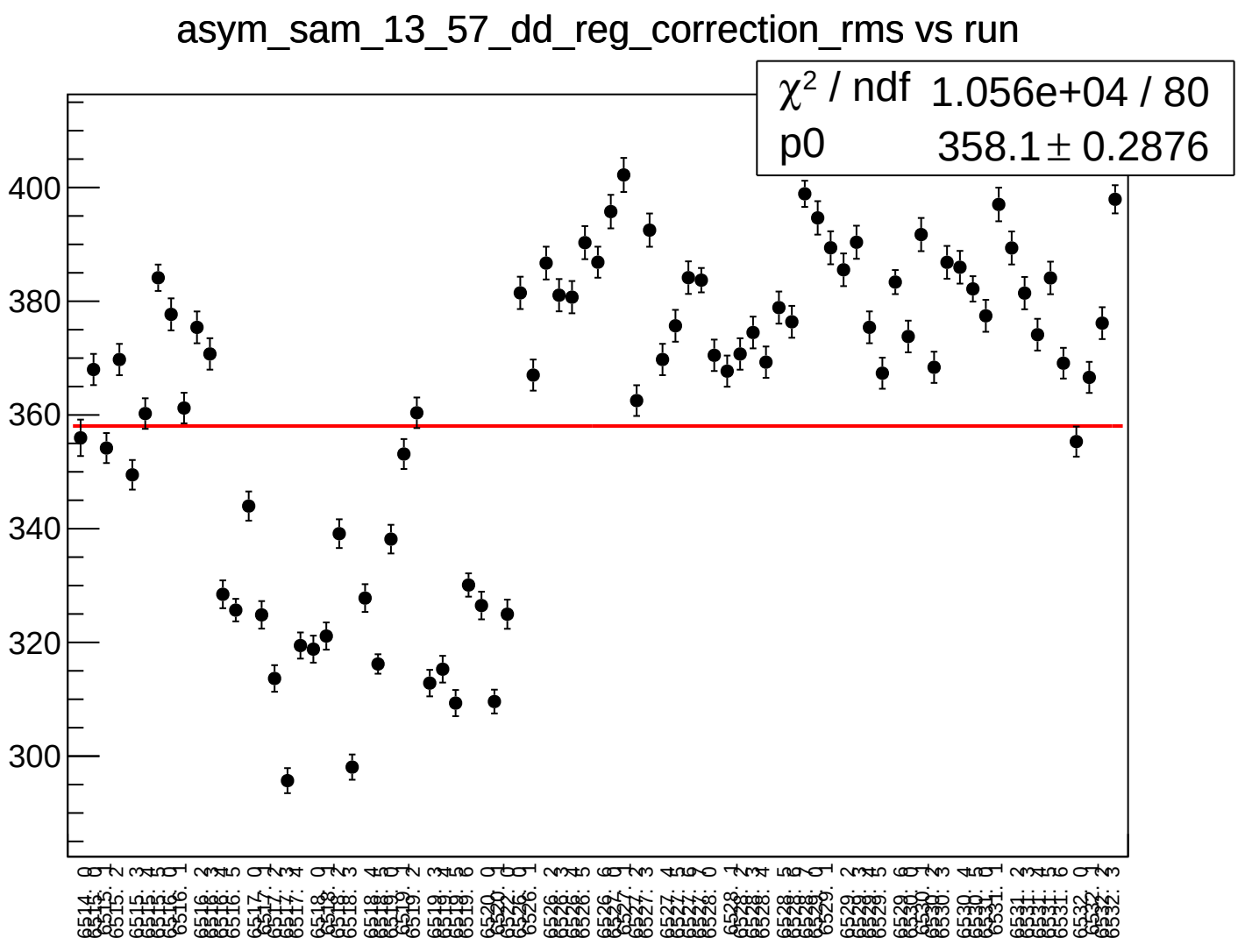

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 55.1 / 80
p0 −90 ± 63.03
pull
Entries 81
Mean −224.2
Std Dev 0

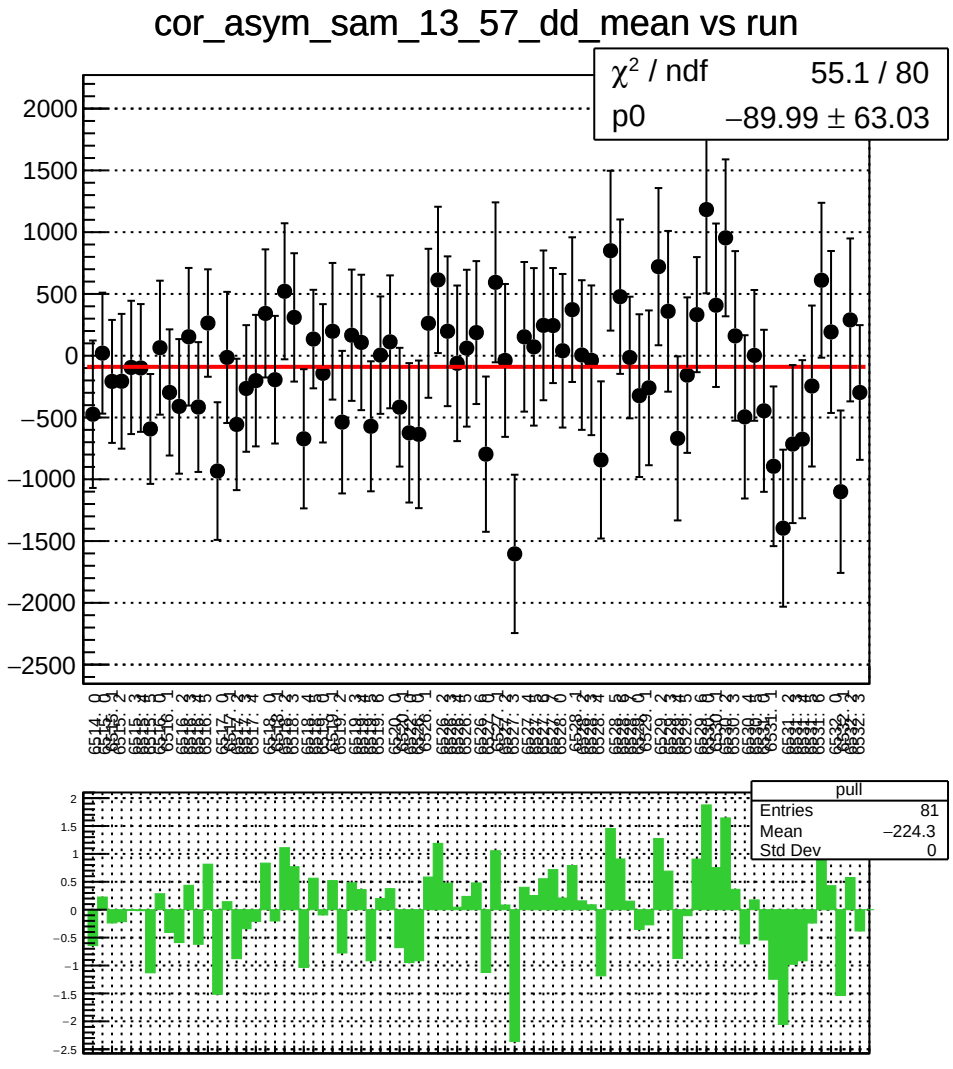

pull1D
Entries 81
Mean −0.004514
Std Dev 0.8248

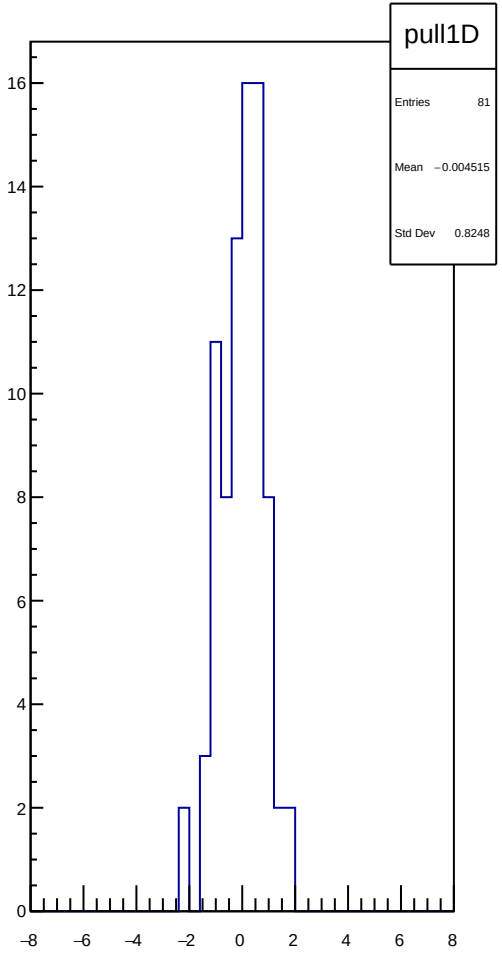

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.318e+04 / 80
p0 55.45 ± 0.04457
65
60
55
50
45

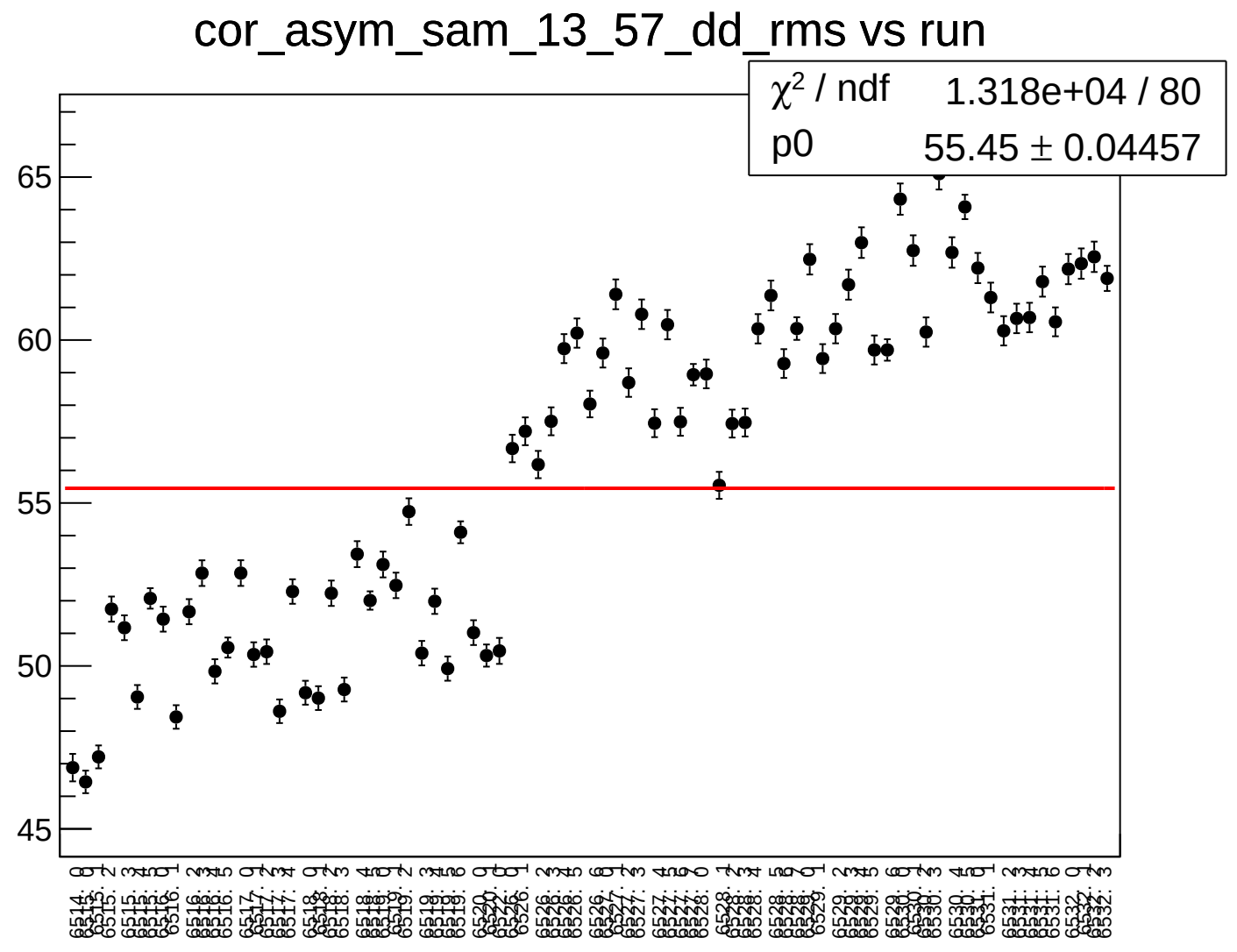

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 69.3 / 80
p0 695.9 ± 406.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean −104.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

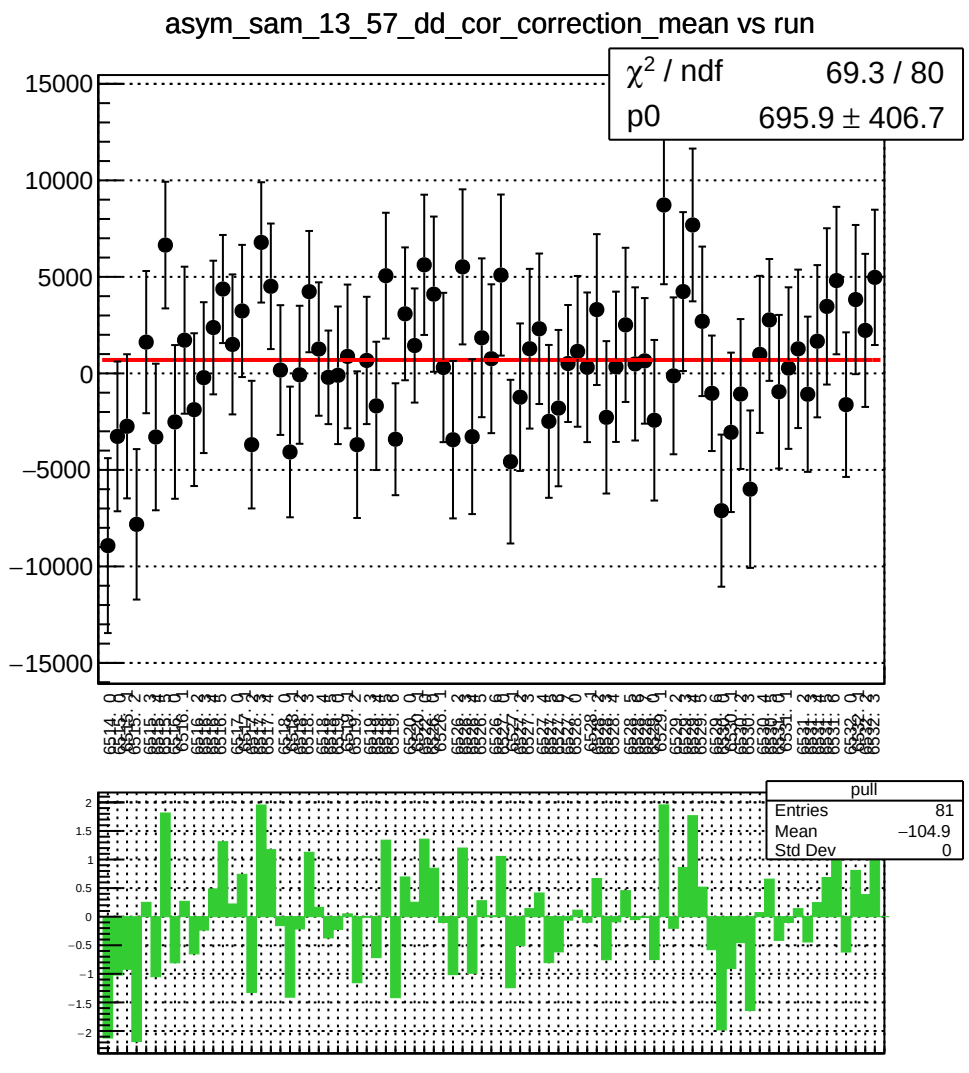

pull1D
Entries 81
Mean −0.0201
Std Dev 0.9247
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

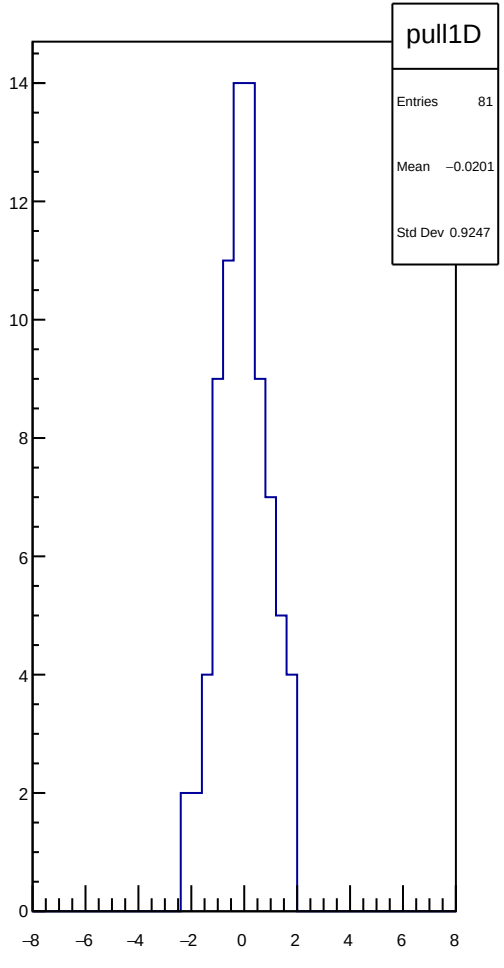

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 1.056e+04 / 80
p0 358.1 ± 0.2876
400
380
360
340
320
300

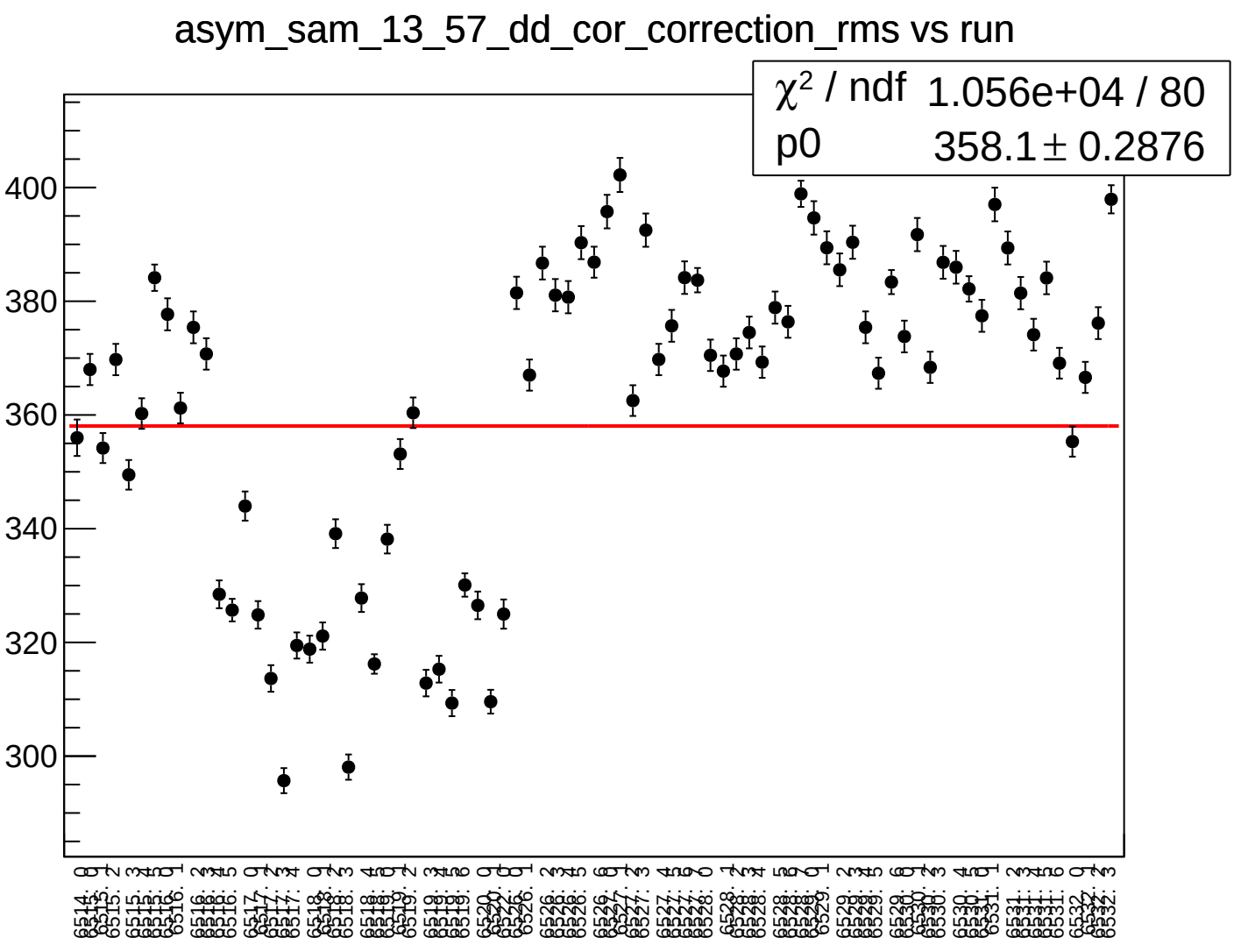

cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 55.1 / 80
p0 −89.99 ± 63.03
pull
Entries 81
Mean −224.3
Std Dev 0

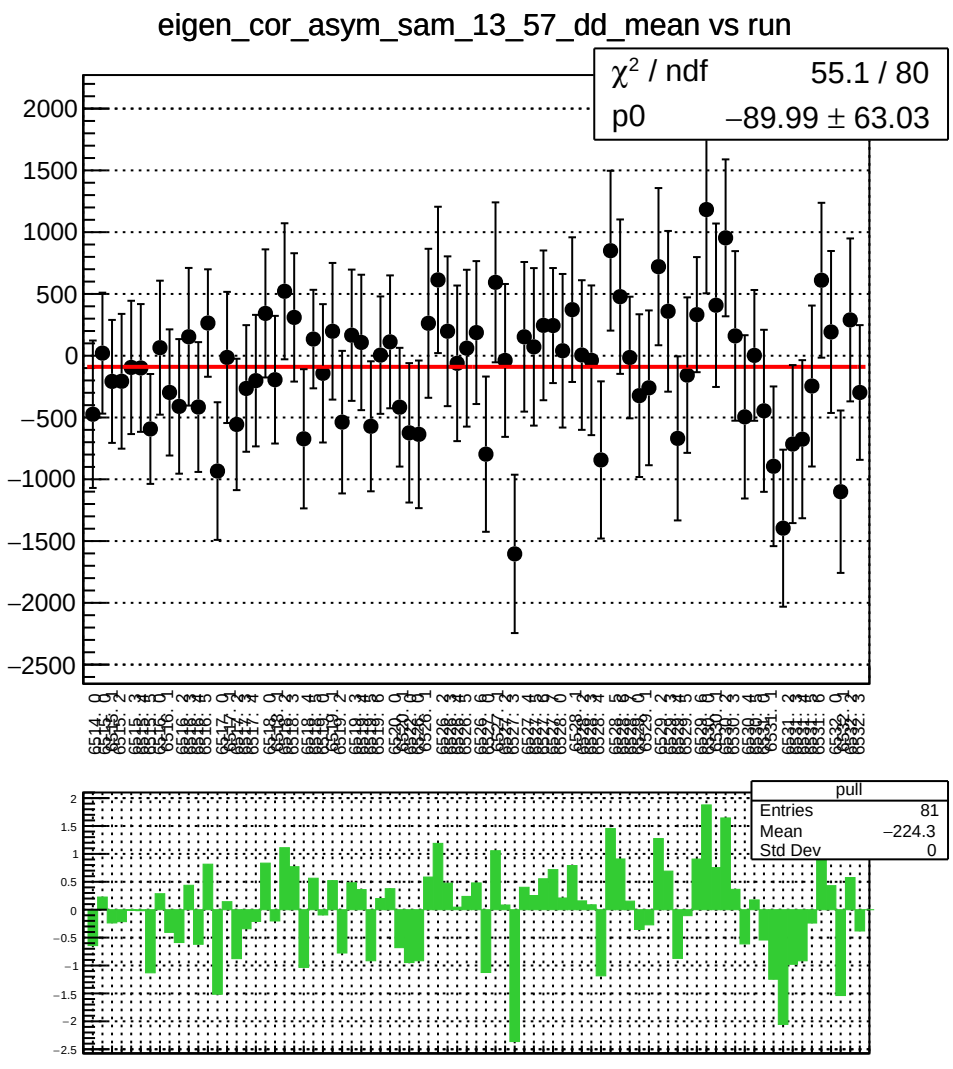

pull1D
Entries 81
Mean −0.004515
Std Dev 0.8248

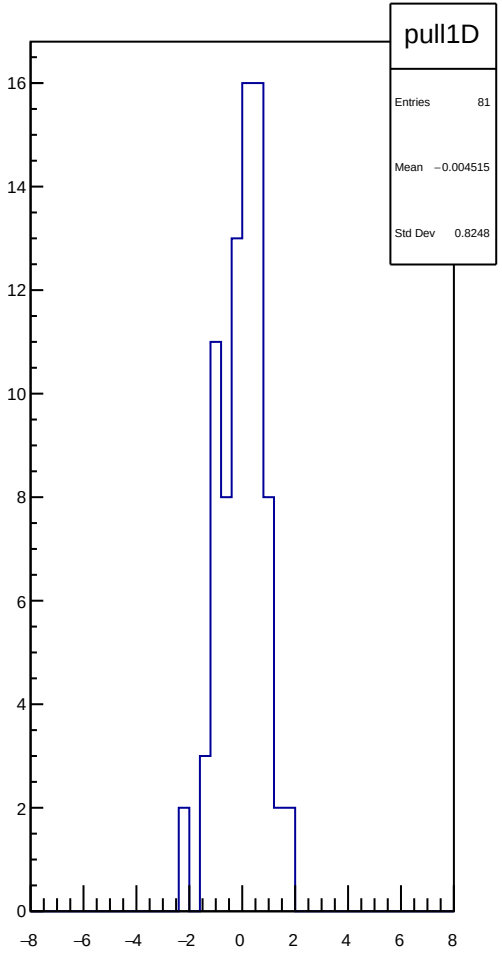

cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.318e+04 / 80
p0 55.45 ± 0.04457
65
60
55
50
45

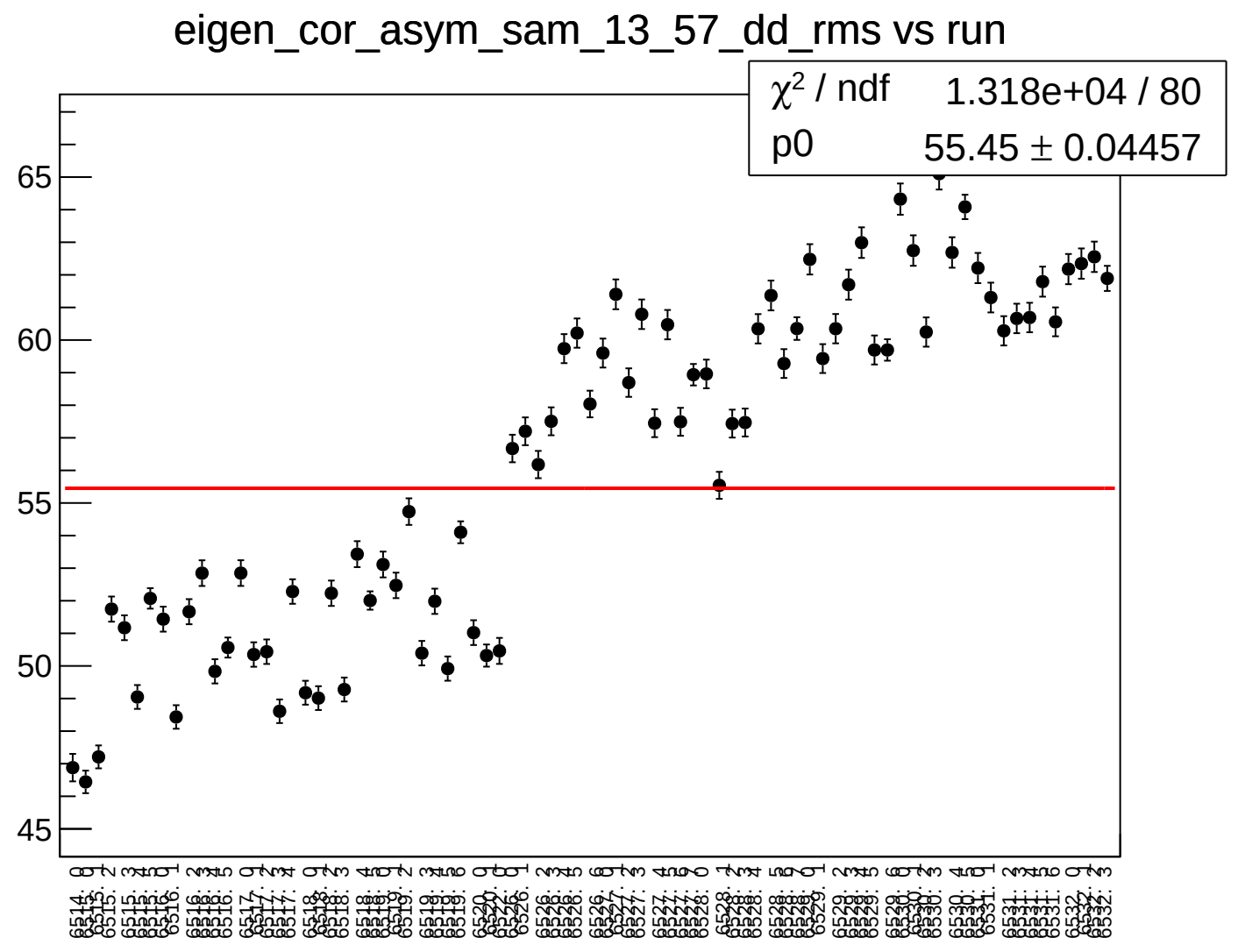

asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 69.3 / 80
p0 695.9 ± 406.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean −104.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

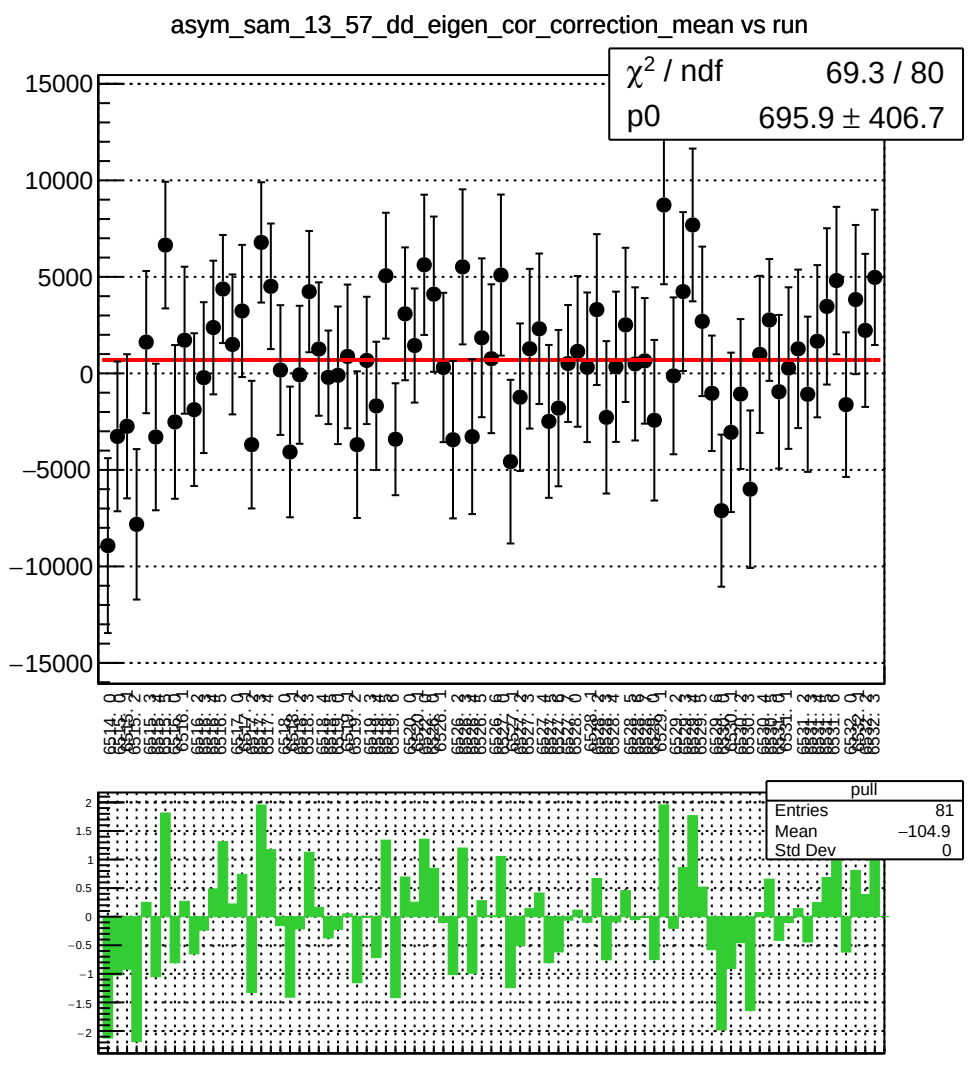

pull1D
Entries 81
Mean −0.0201
Std Dev 0.9247
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

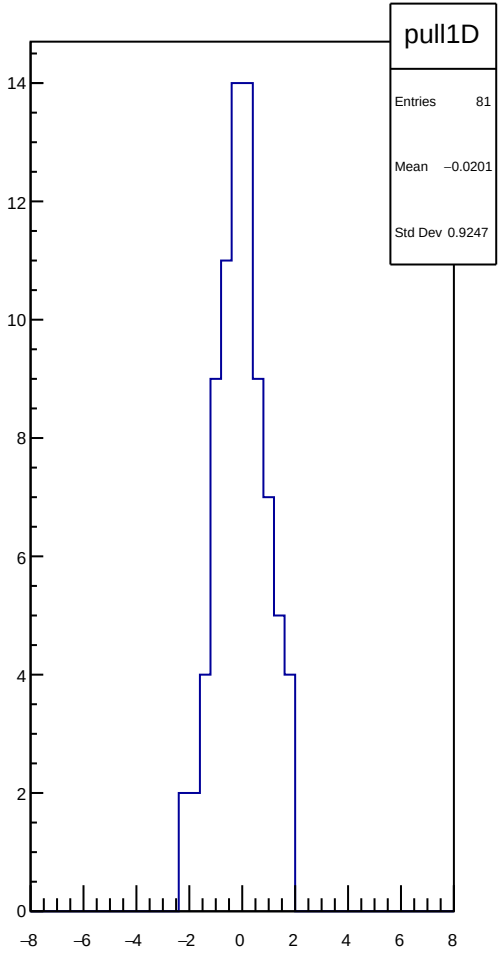

asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 1.056e+04 / 80
p0 358.1 ± 0.2876
400
380
360
340
320
300

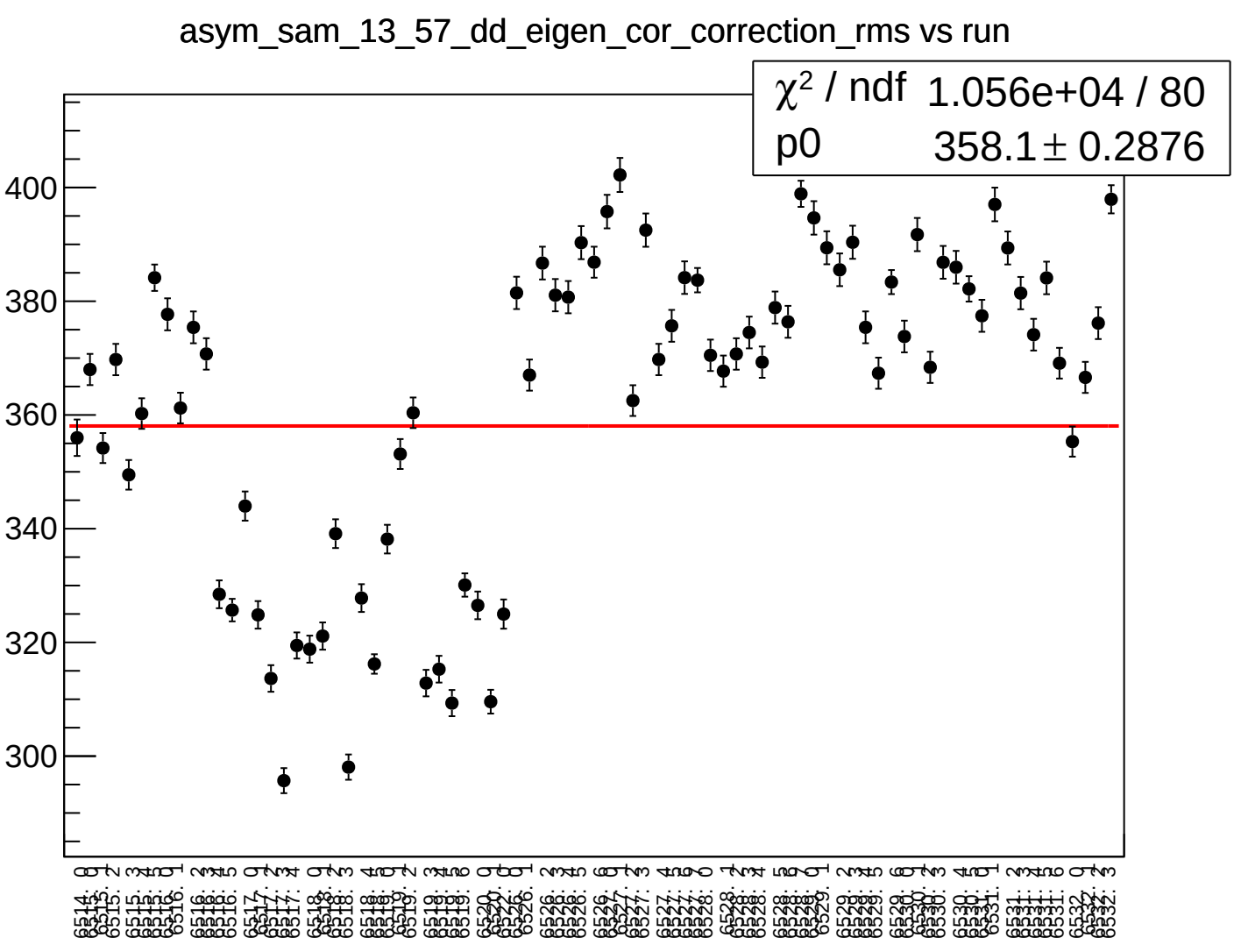

eigen_cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 55.1 / 80
p0 −89.99 ± 63.03
pull
Entries 81
Mean −224.3
Std Dev 0

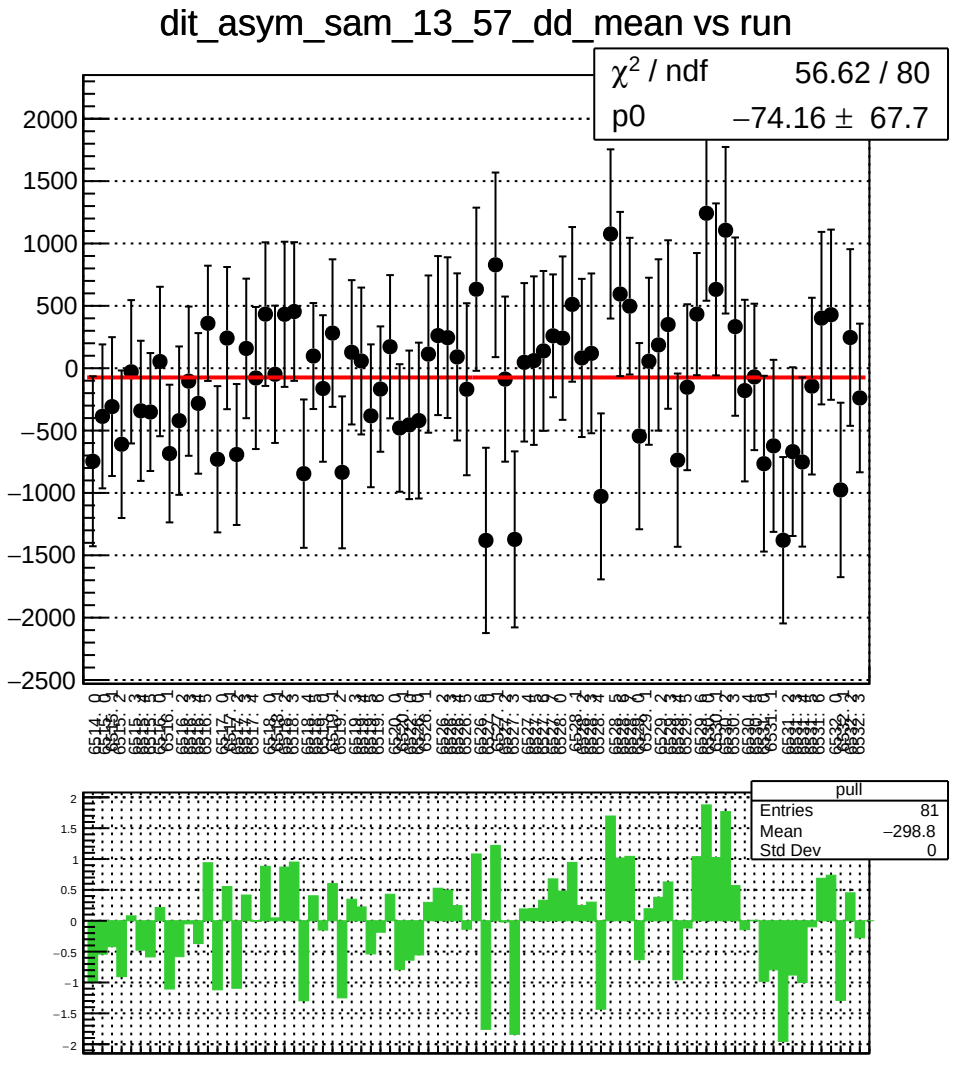

pull1D
Entries 81
Mean −0.004515
Std Dev 0.8248

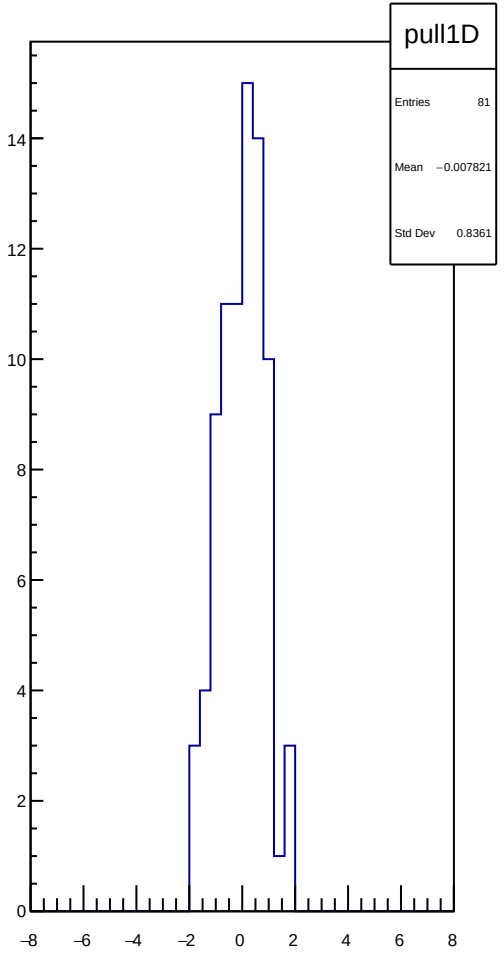

eigen_cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.318e+04 / 80
p0 55.45 ± 0.04457
65
60
55
50
45

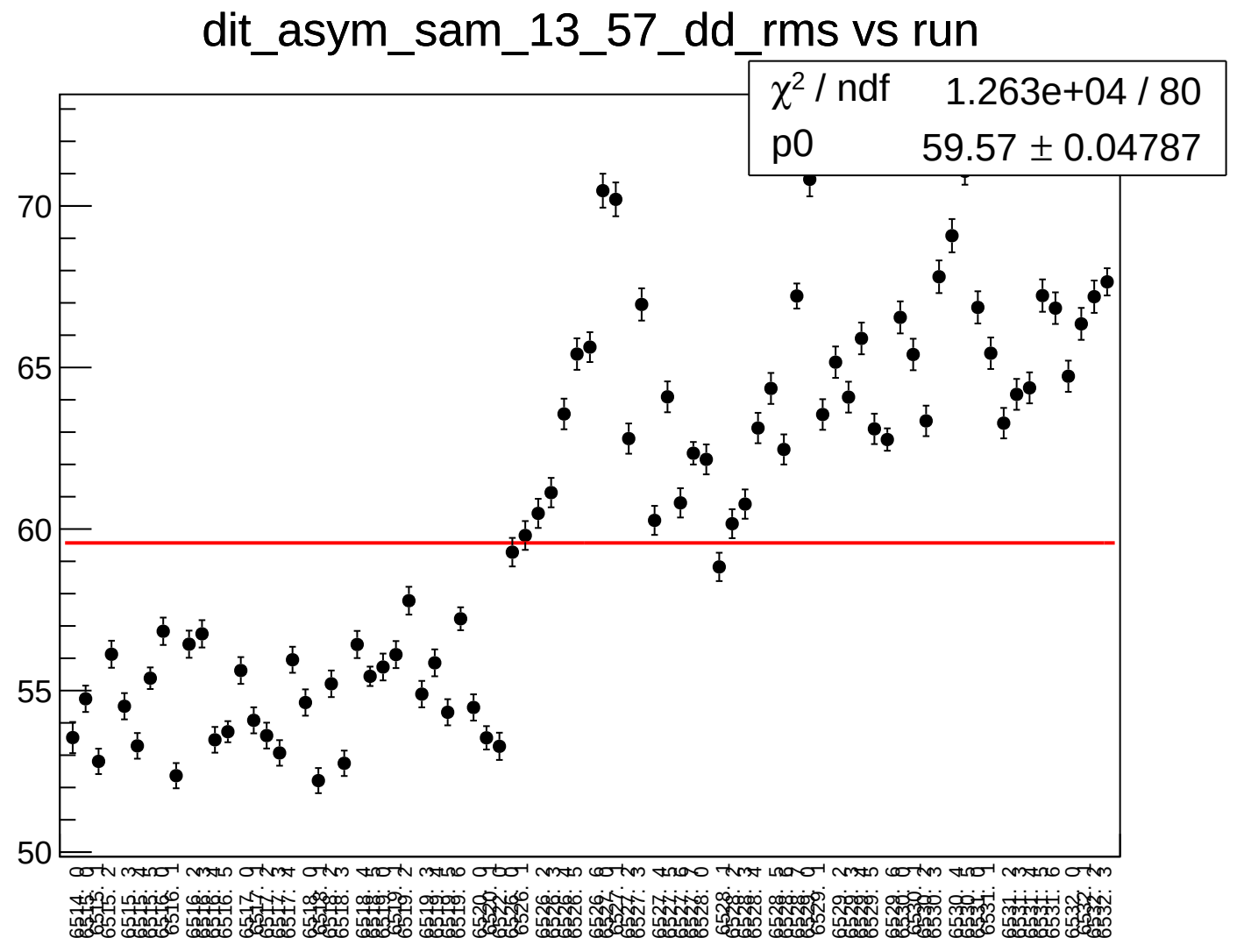

asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 69.3 / 80
p0 695.9 ± 406.7
pull
Entries 81
Mean −104.9
Std Dev 0

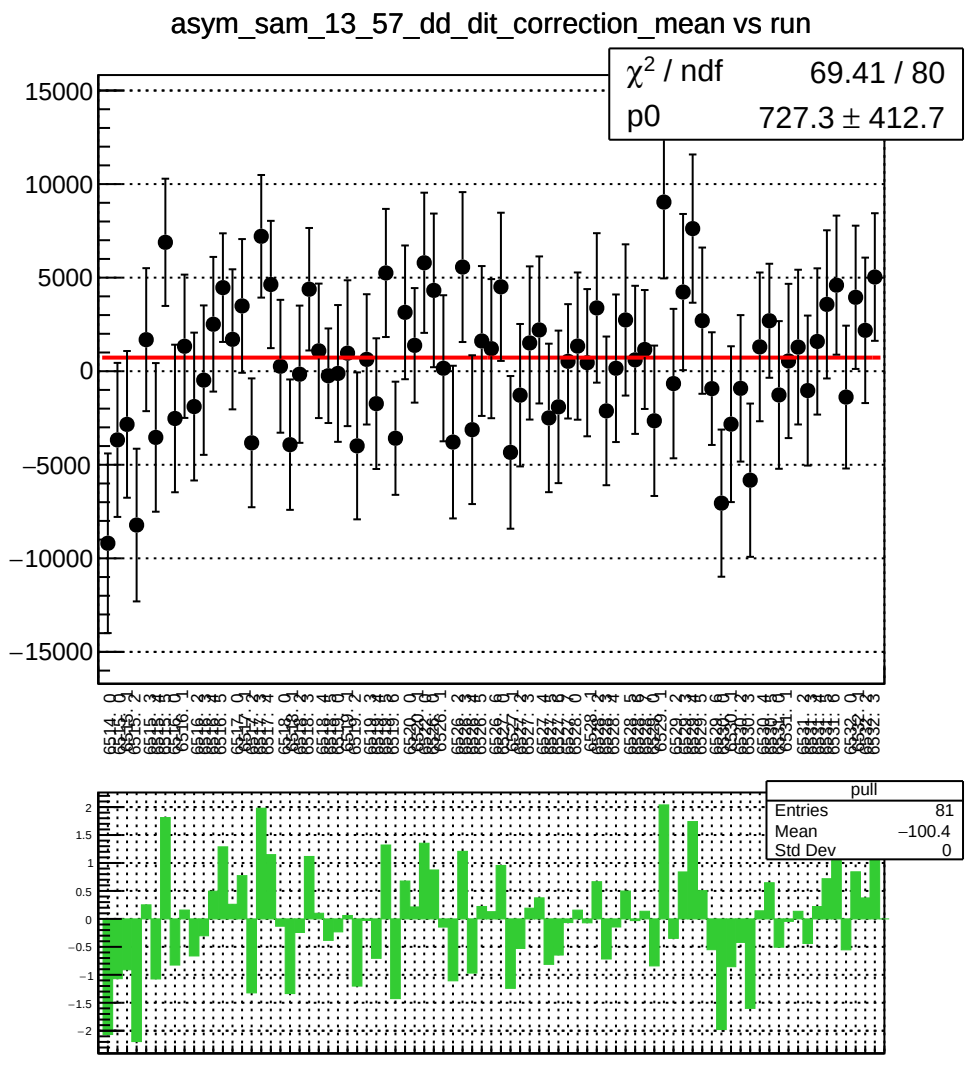

pull1D
Entries 81
Mean −0.0201
Std Dev 0.9247

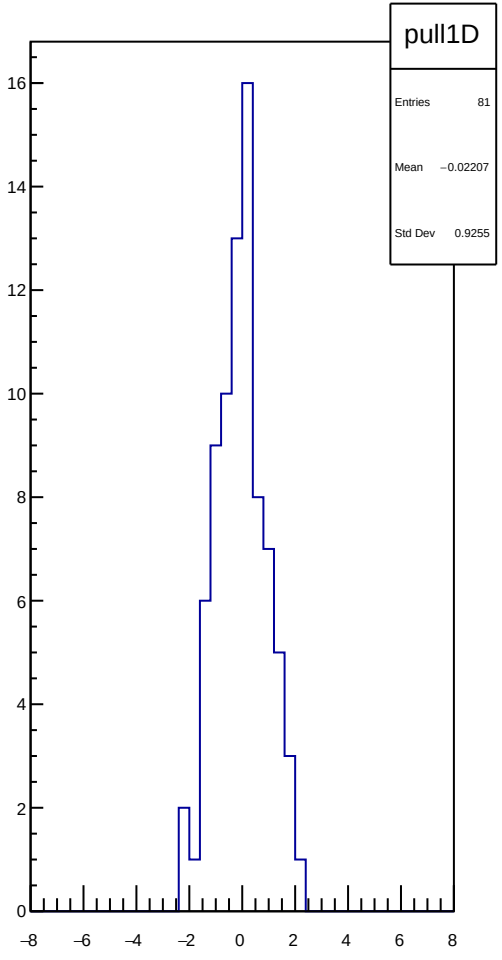

asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.056e+04 / 80
p0 358.1 ± 0.2876
400
380
360
340
320
300

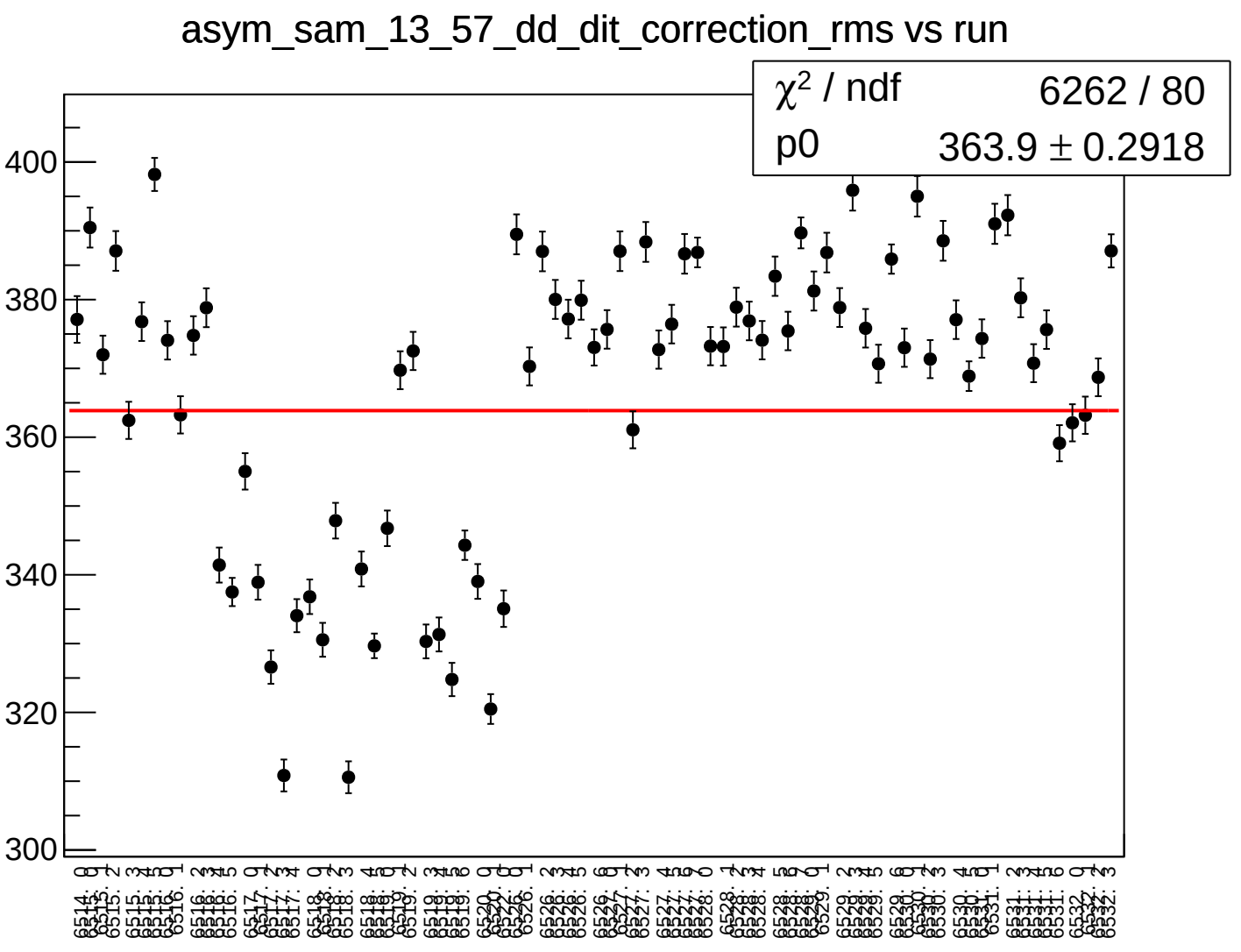

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 56.62 / 80
p0 −74.16 ± 67.7
pull
Entries 81
Mean −298.8
Std Dev 0

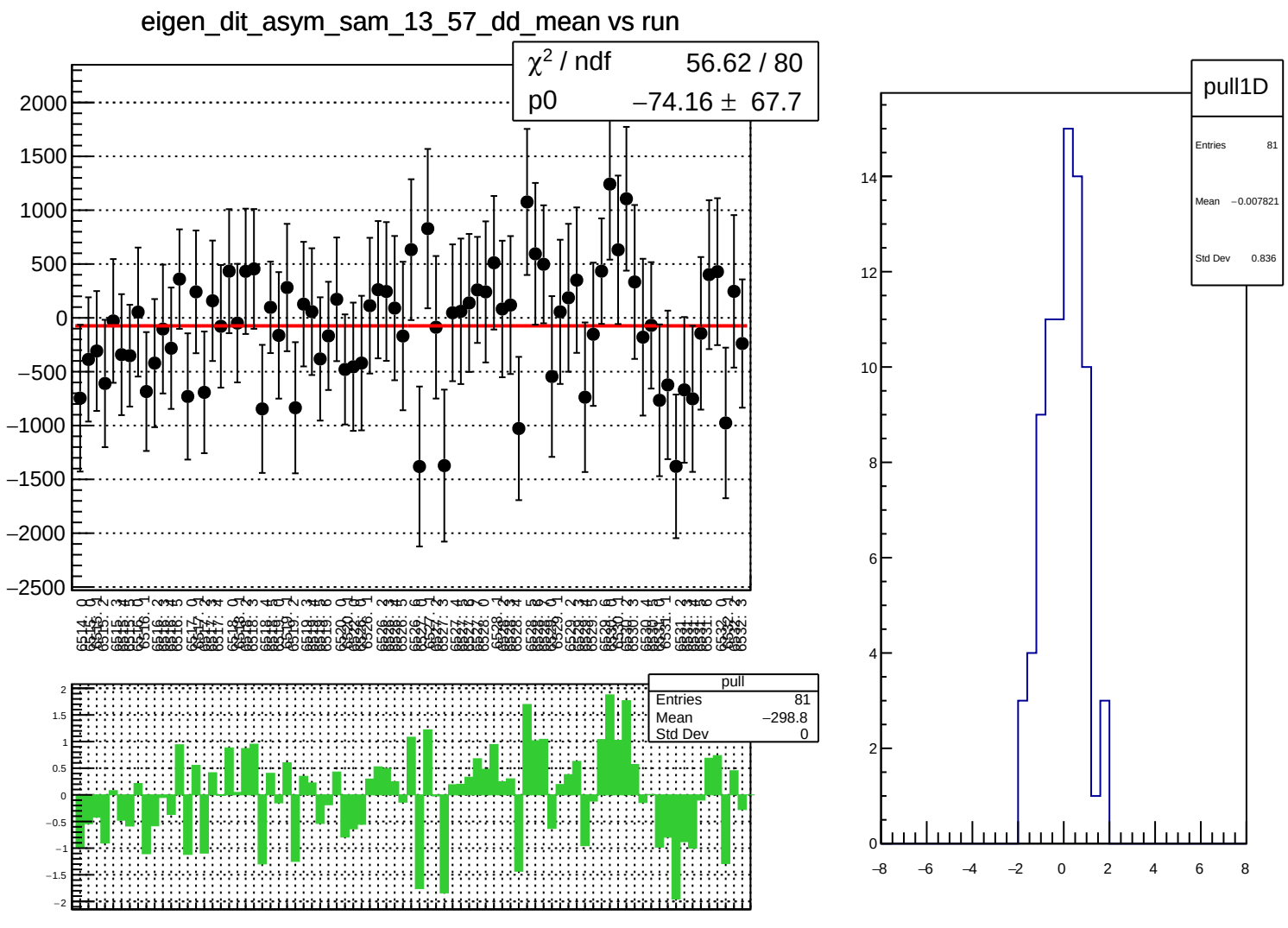

pull1D
Entries 81
Mean −0.007821
Std Dev 0.8361

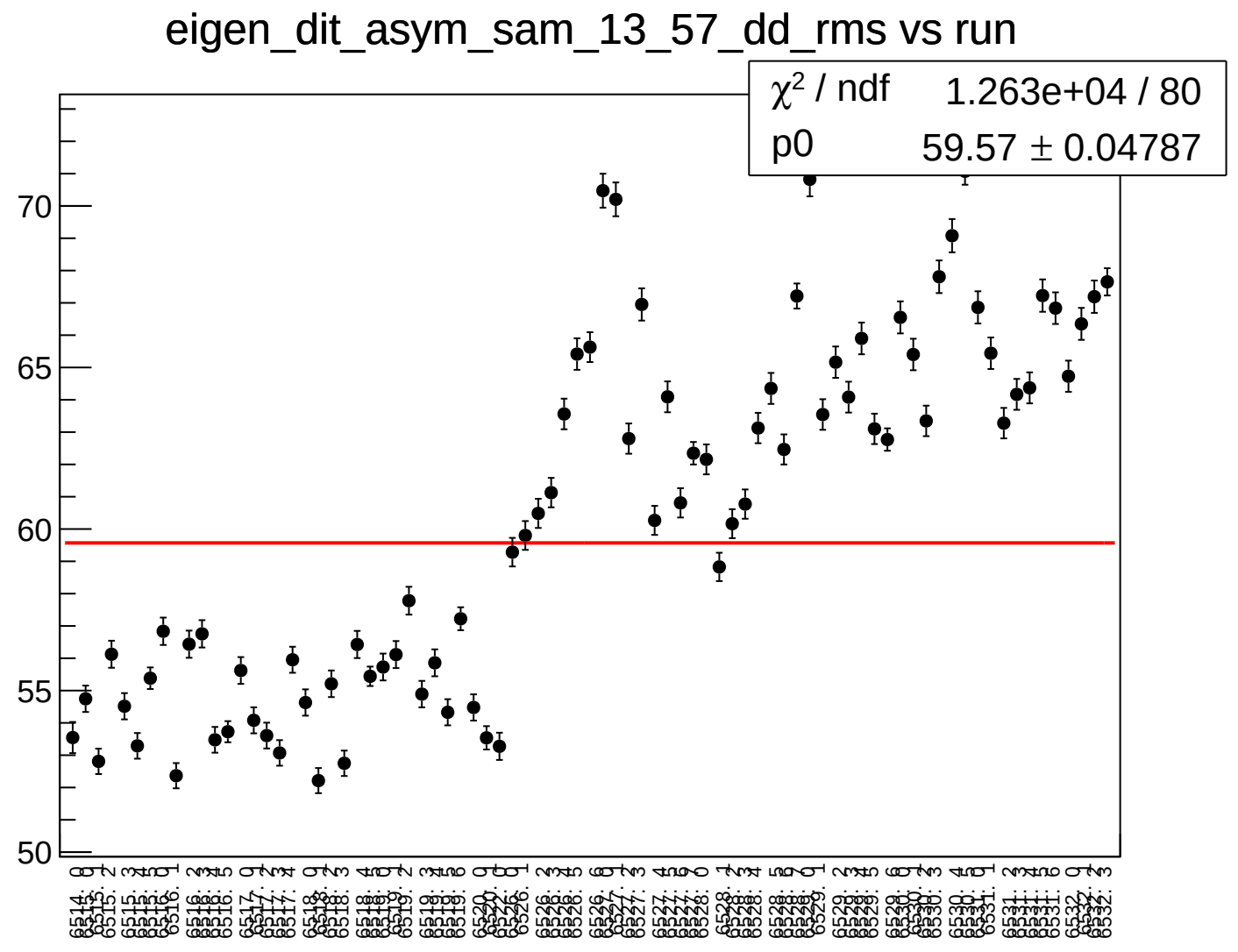

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.263e+04 / 80
p0 59.57 ± 0.04787
70
65
60
55
50

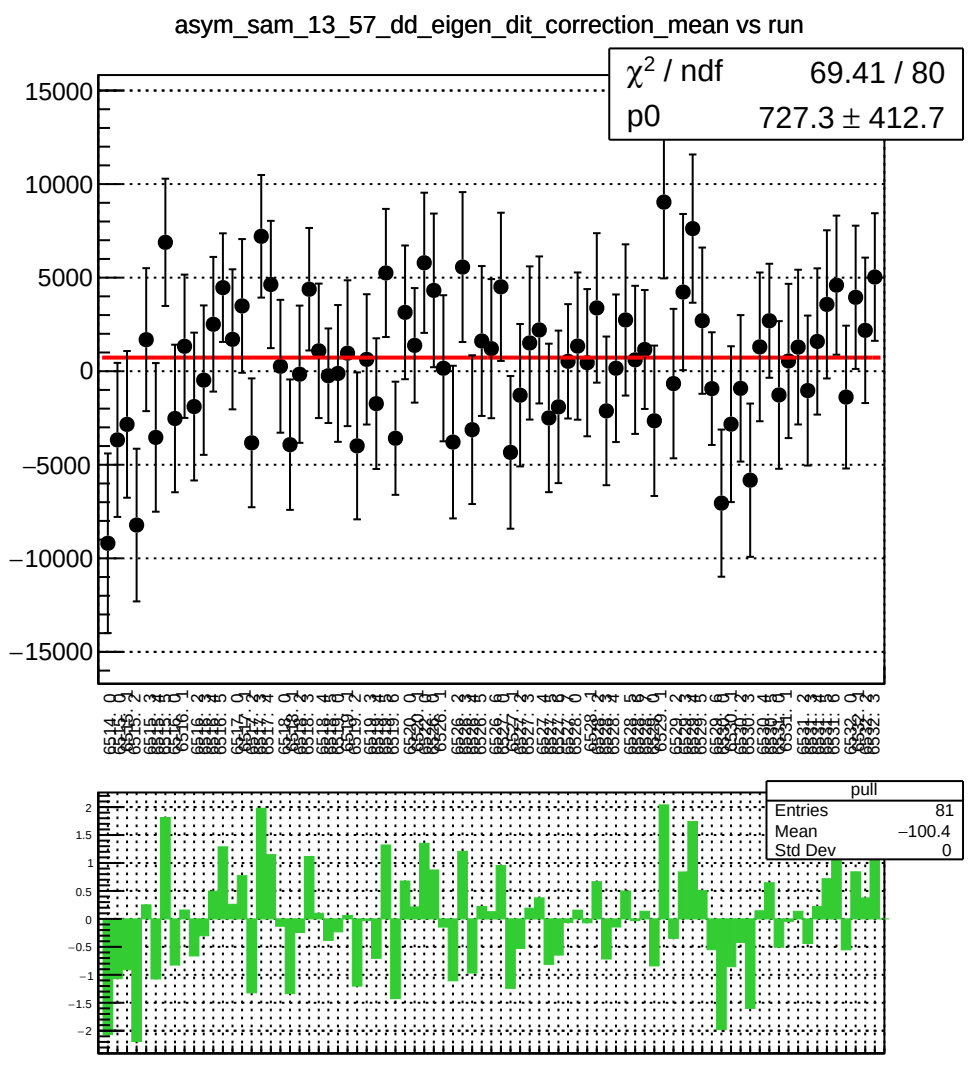

asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 69.41 / 80
p0 727.3 ± 412.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean −100.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

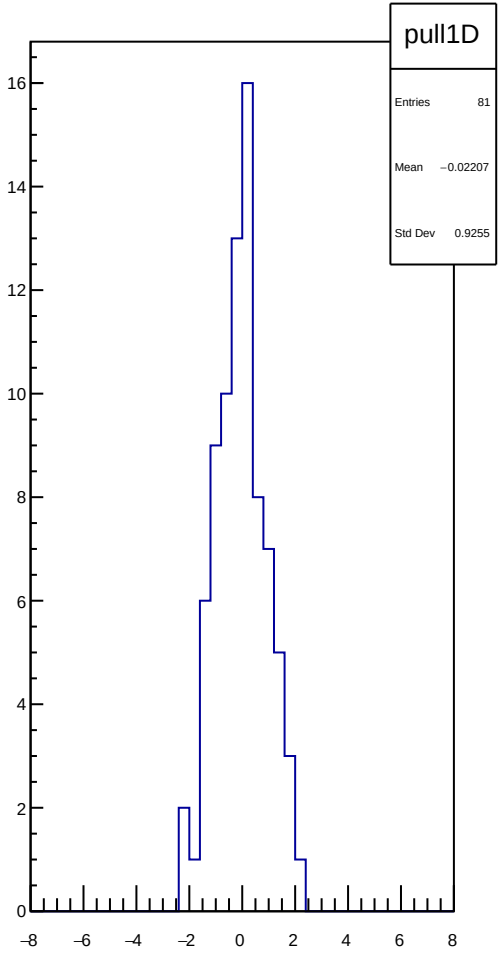

pull1D
Entries 81
Mean −0.02207
Std Dev 0.9255
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

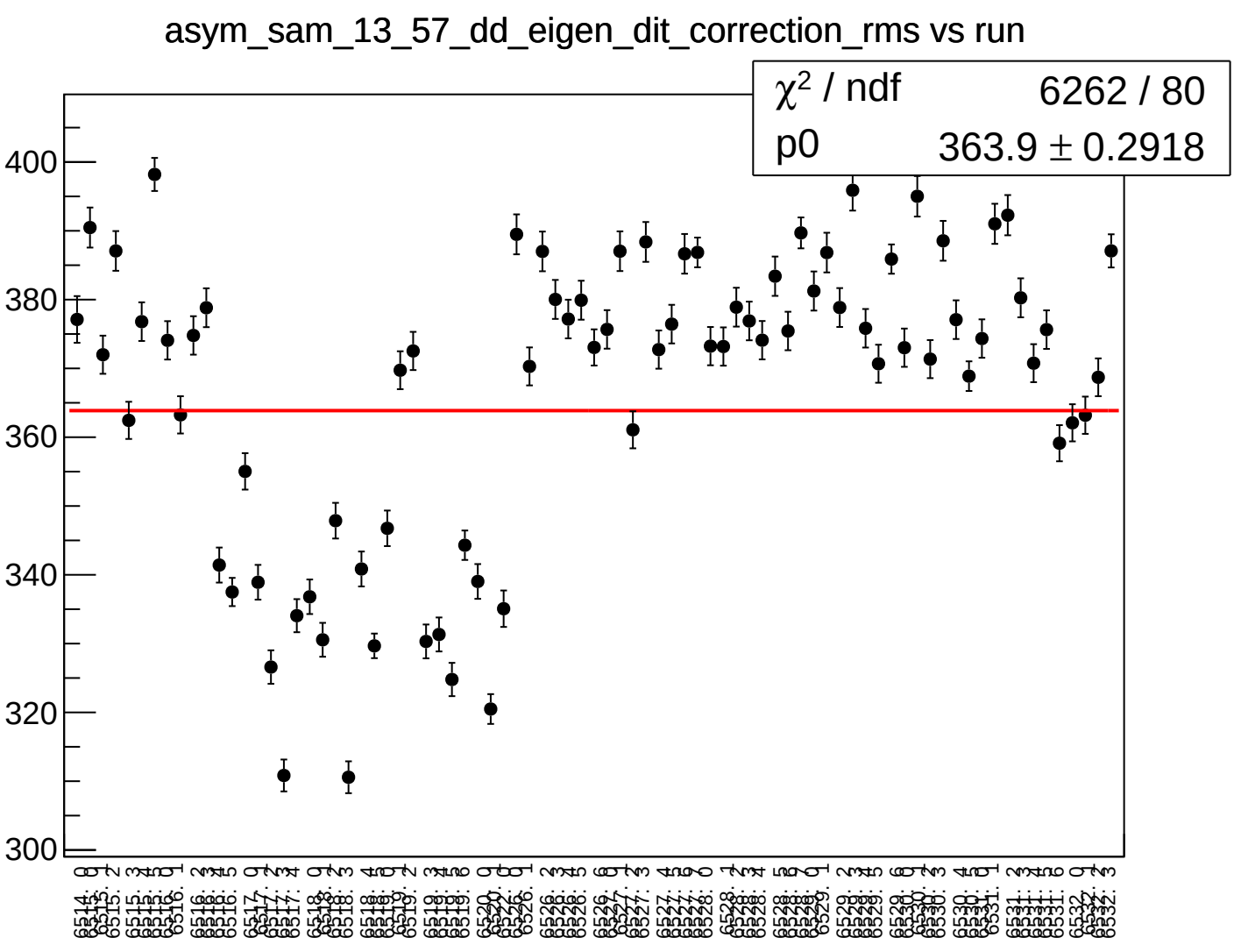

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 6262 / 80
p0 363.9 ± 0.2918
400
380
360
340
320
300

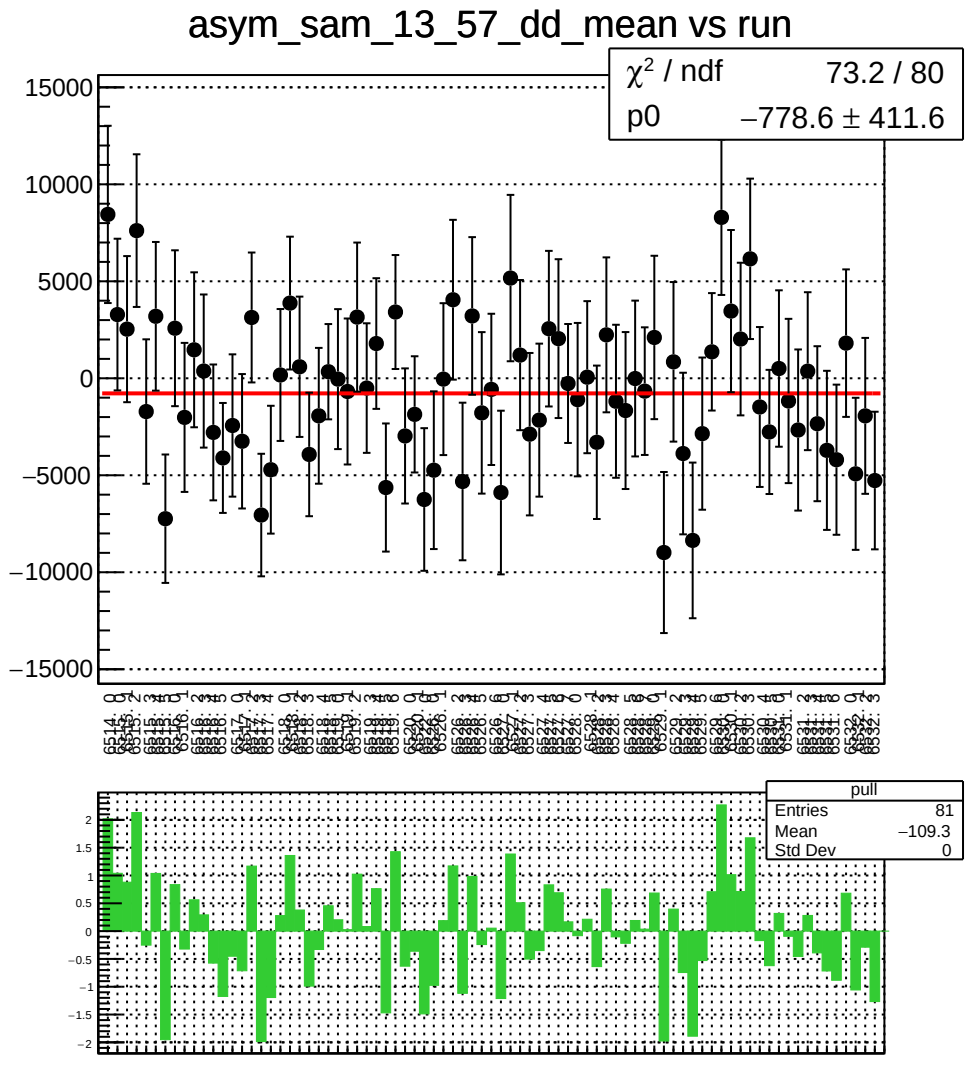

eigen_dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 56.62 / 80
p0 −74.16 ± 67.7
pull
Entries 81
Mean −298.8
Std Dev 0
pull1D
Entries 81
Mean −0.007821
Std Dev 0.836

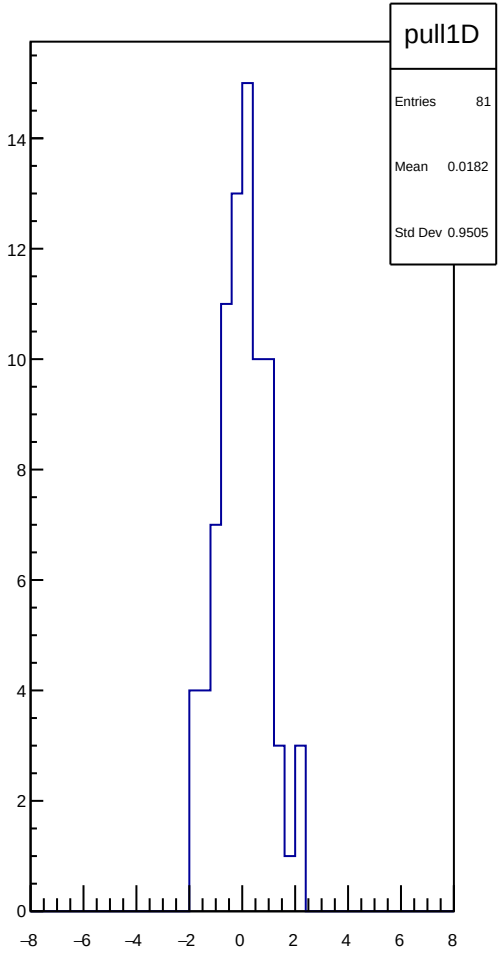

eigen_dit_asym_sam_13_57_dd_rms vs run
χ^2 / ndf 1.263e+04 / 80
p0 59.57 ± 0.04787
70
65
60
55
50

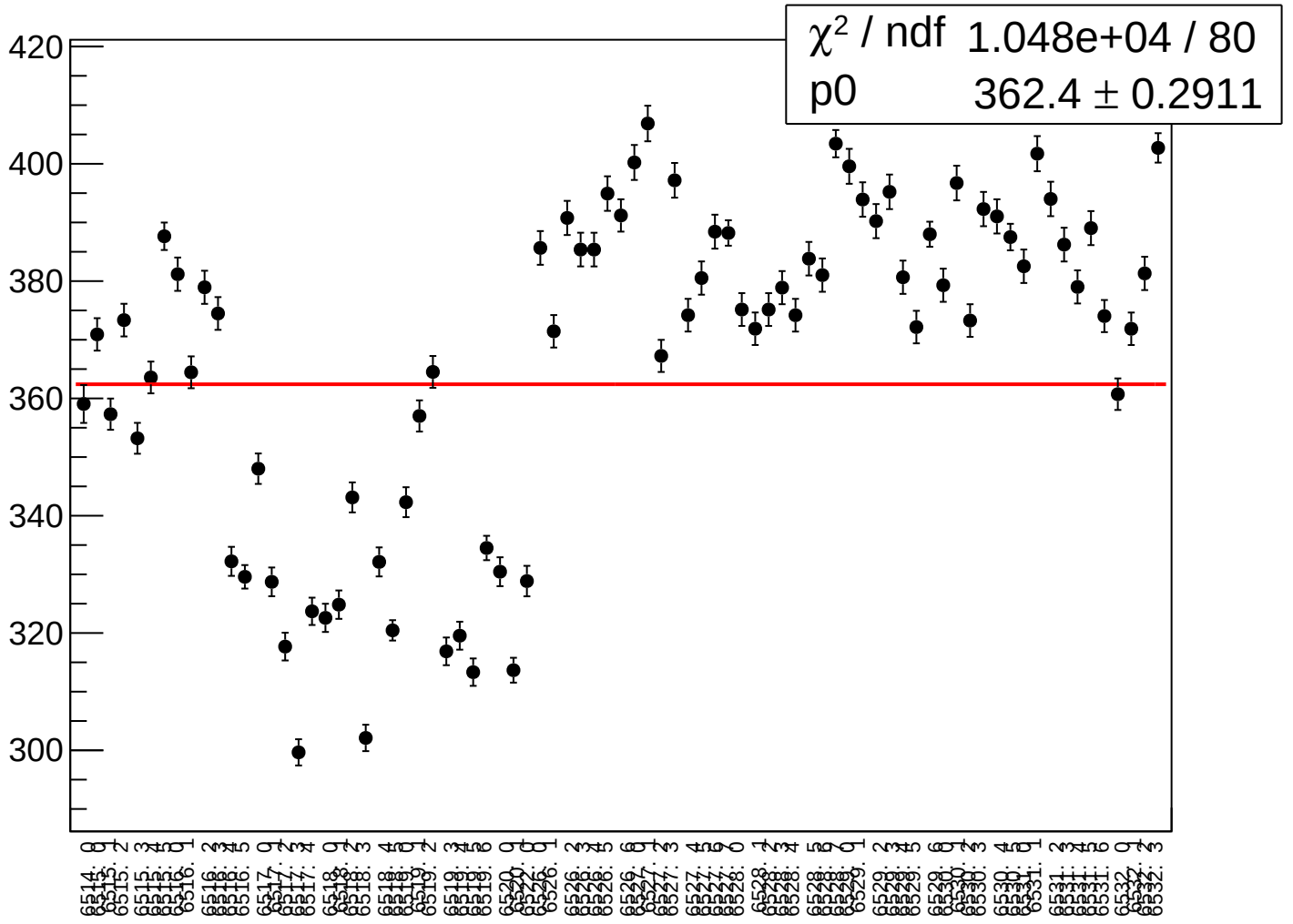

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 69.41 / 80
p0 727.3 ± 412.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean −100.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

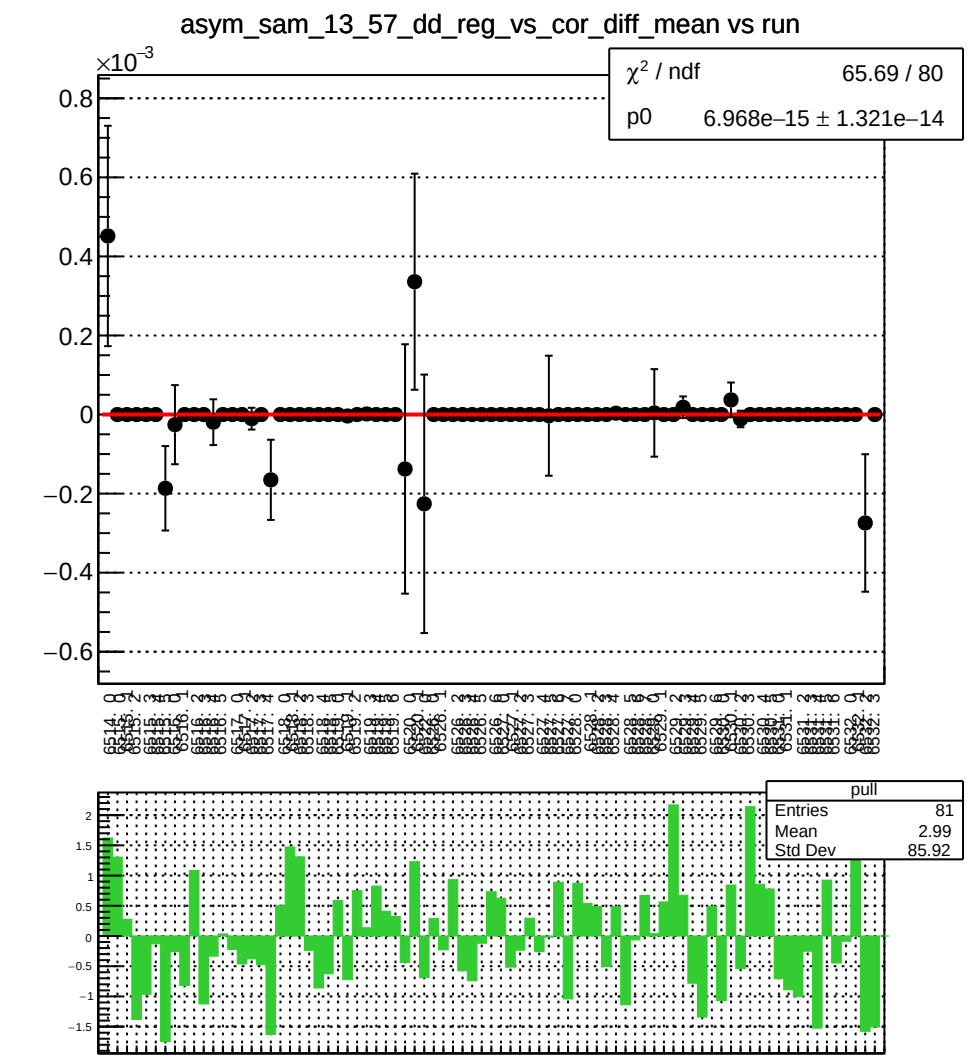

pull1D
Entries 81
Mean −0.02207
Std Dev 0.9255
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

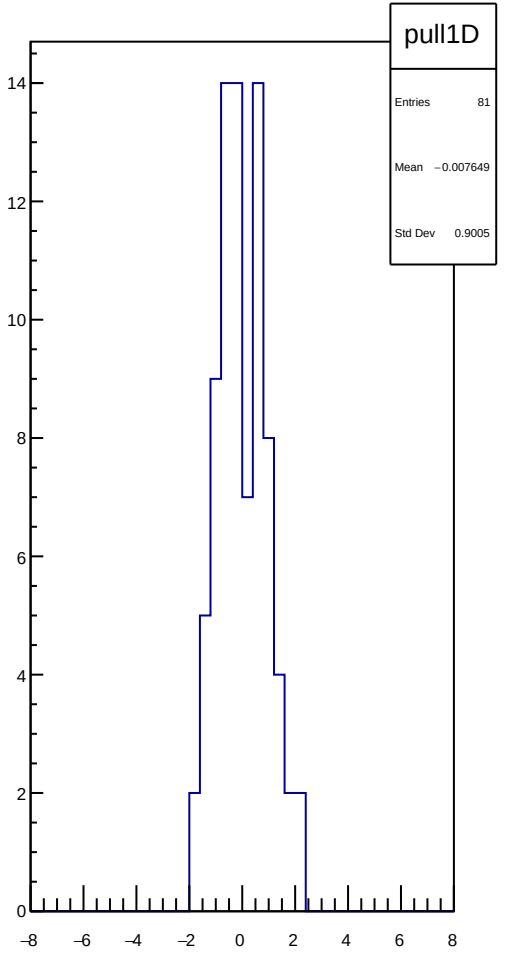

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 6262 / 80
p0 363.9 ± 0.2918
400
380
360
340
320
300

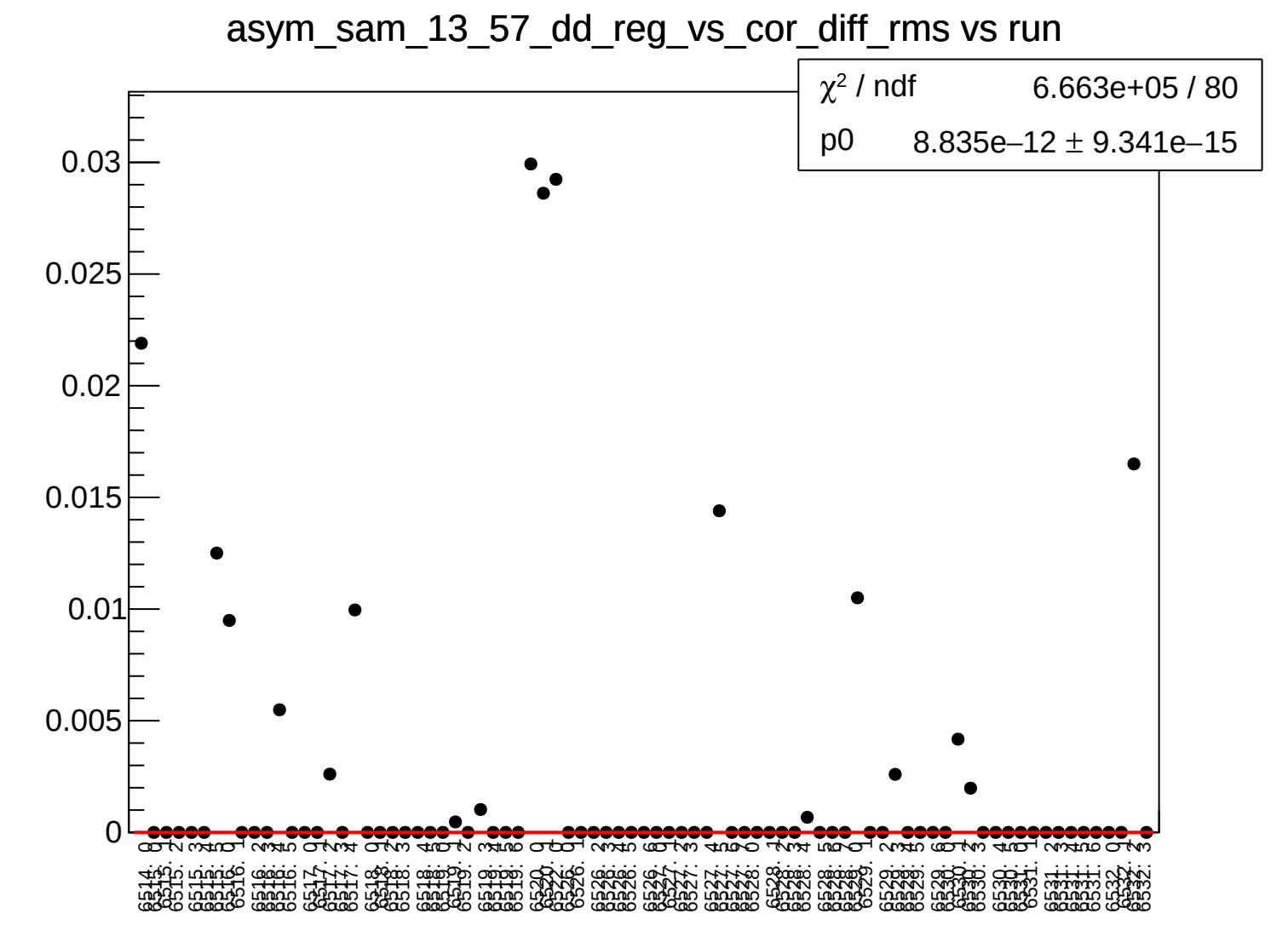

asym_sam_13_57_dd_mean vs run
χ² / ndf 73.2 / 80
p0 −778.6 ± 411.6
pull
Entries 81
Mean −109.3
Std Dev 0

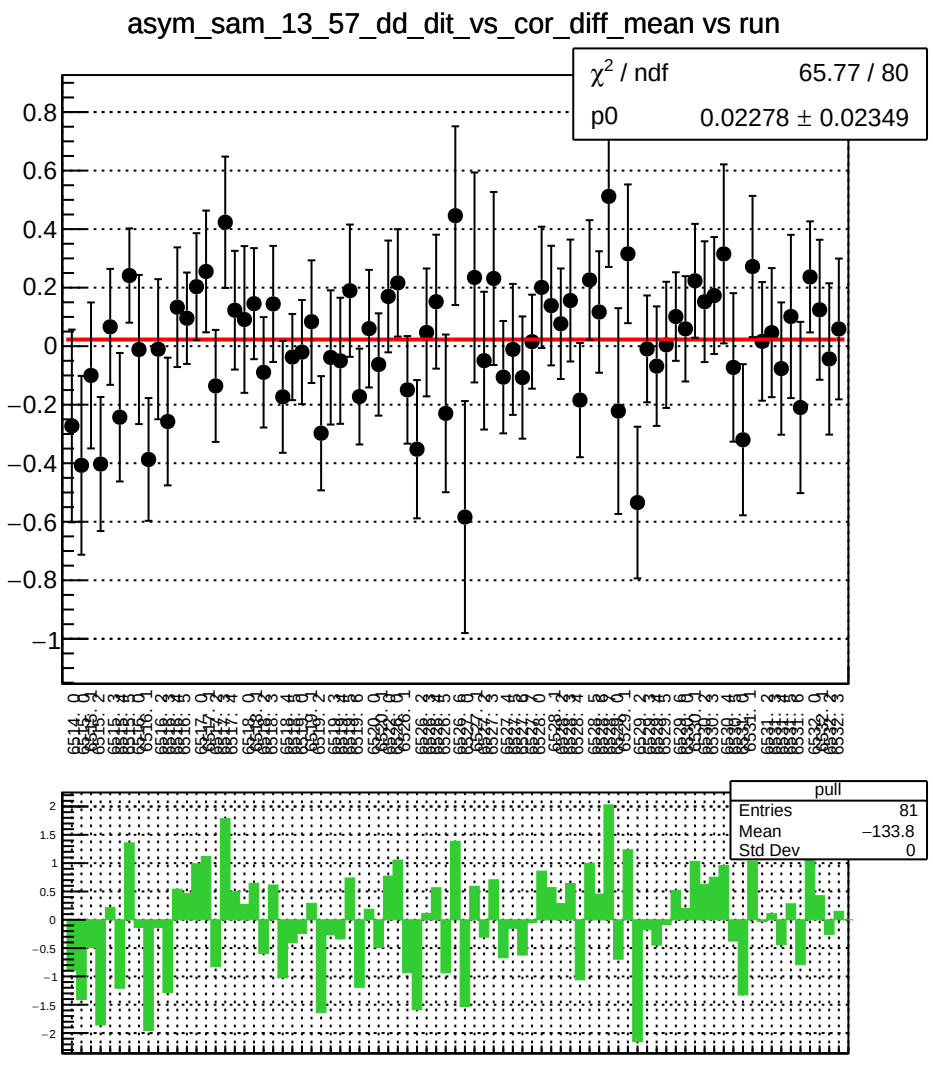

pull1D
Entries 81
Mean 0.0182
Std Dev 0.9505

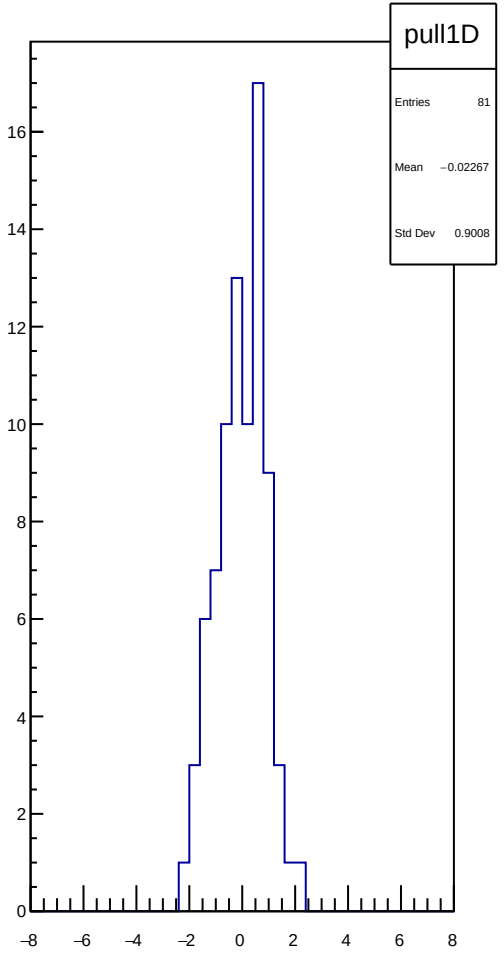

asym_sam_13_57_dd_rms vs run
χ² / ndf 1.048e+04 / 80
p0 362.4 ± 0.2911
420
400
380
360
340
320
300

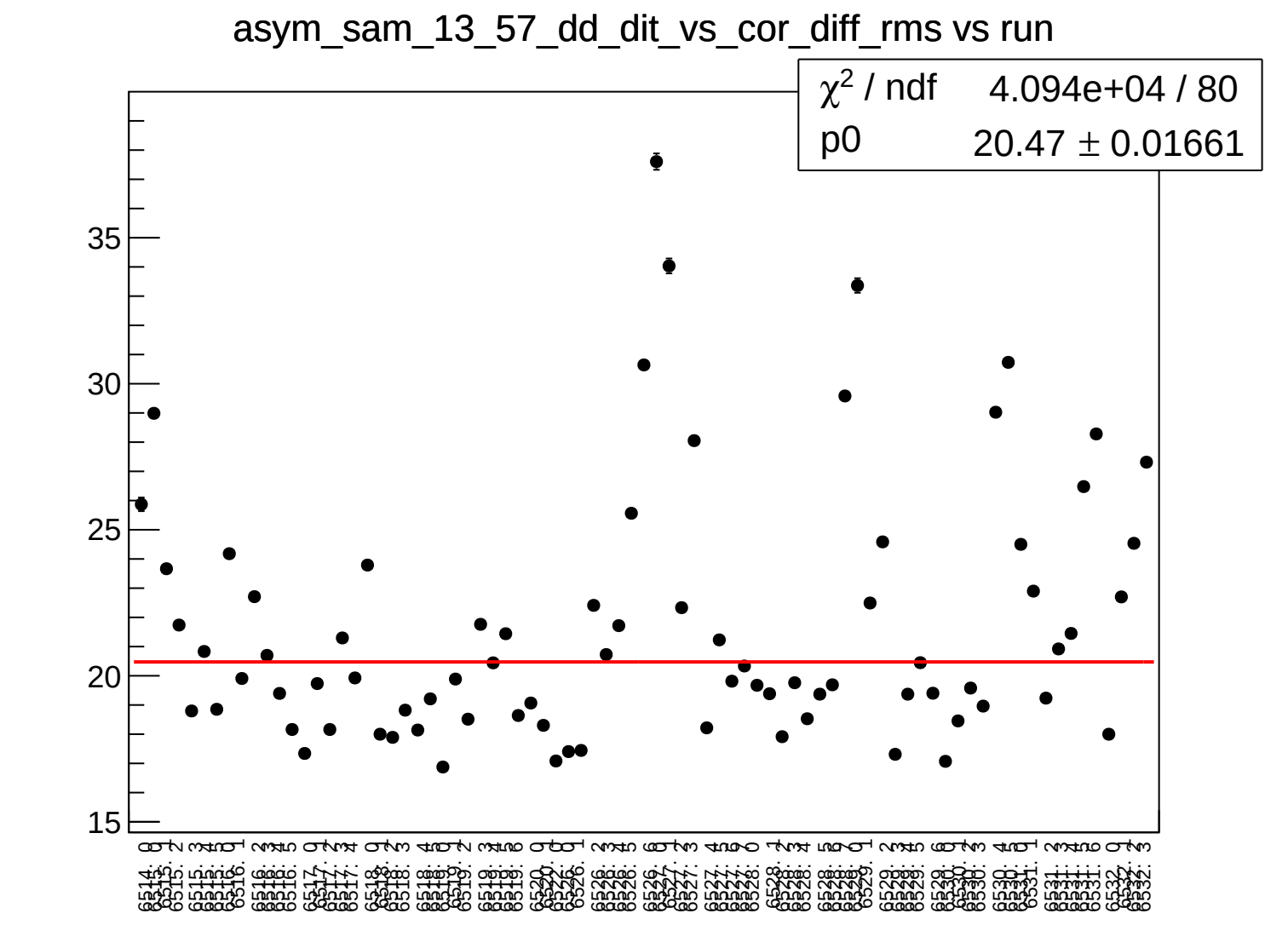

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 65.69 / 80
p0 6.968e−15 ± 1.321e−14
pull
Entries 81
Mean 2.99
Std Dev 85.92

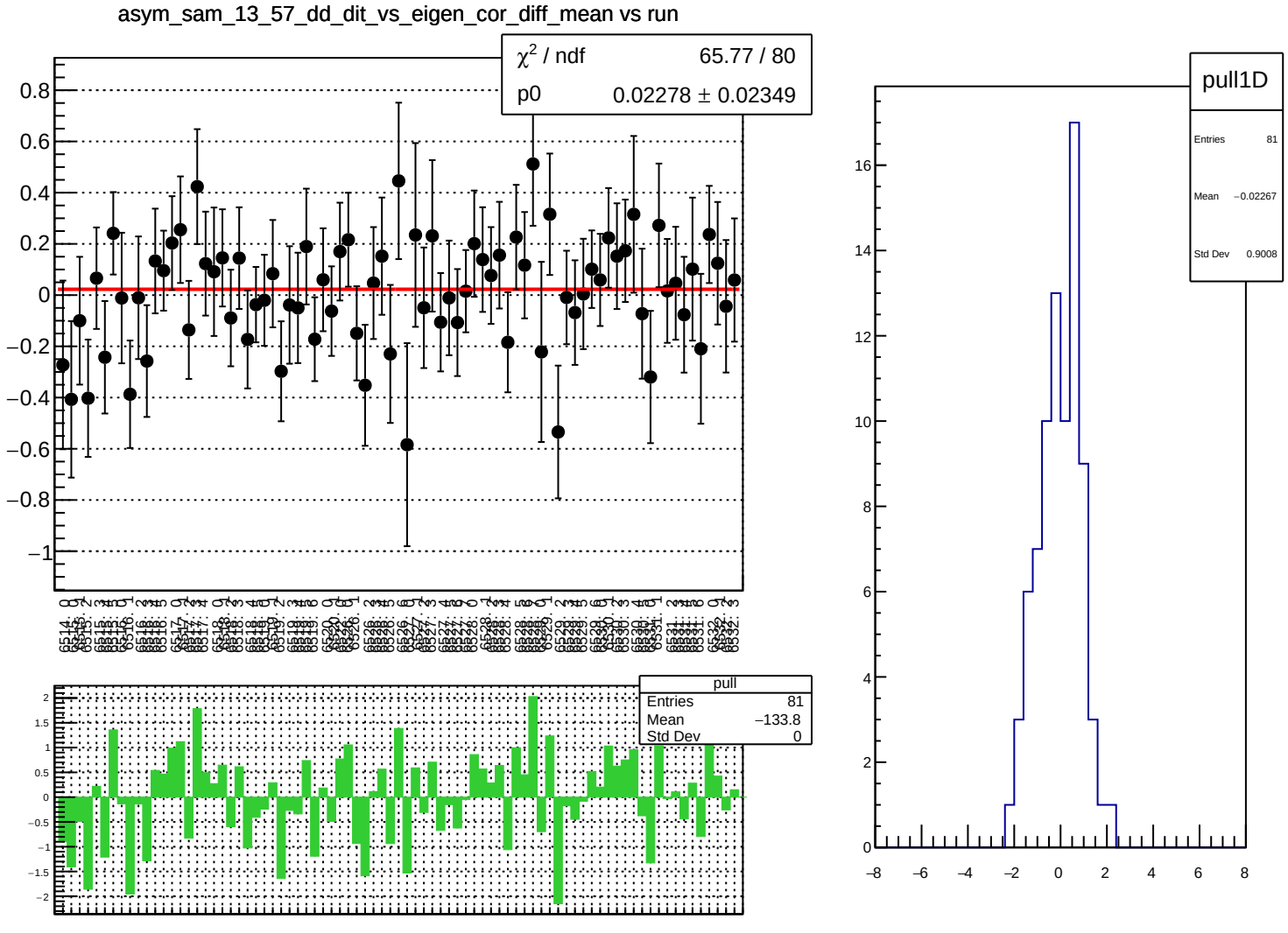

pull1D
Entries 81
Mean −0.007649
Std Dev 0.9005

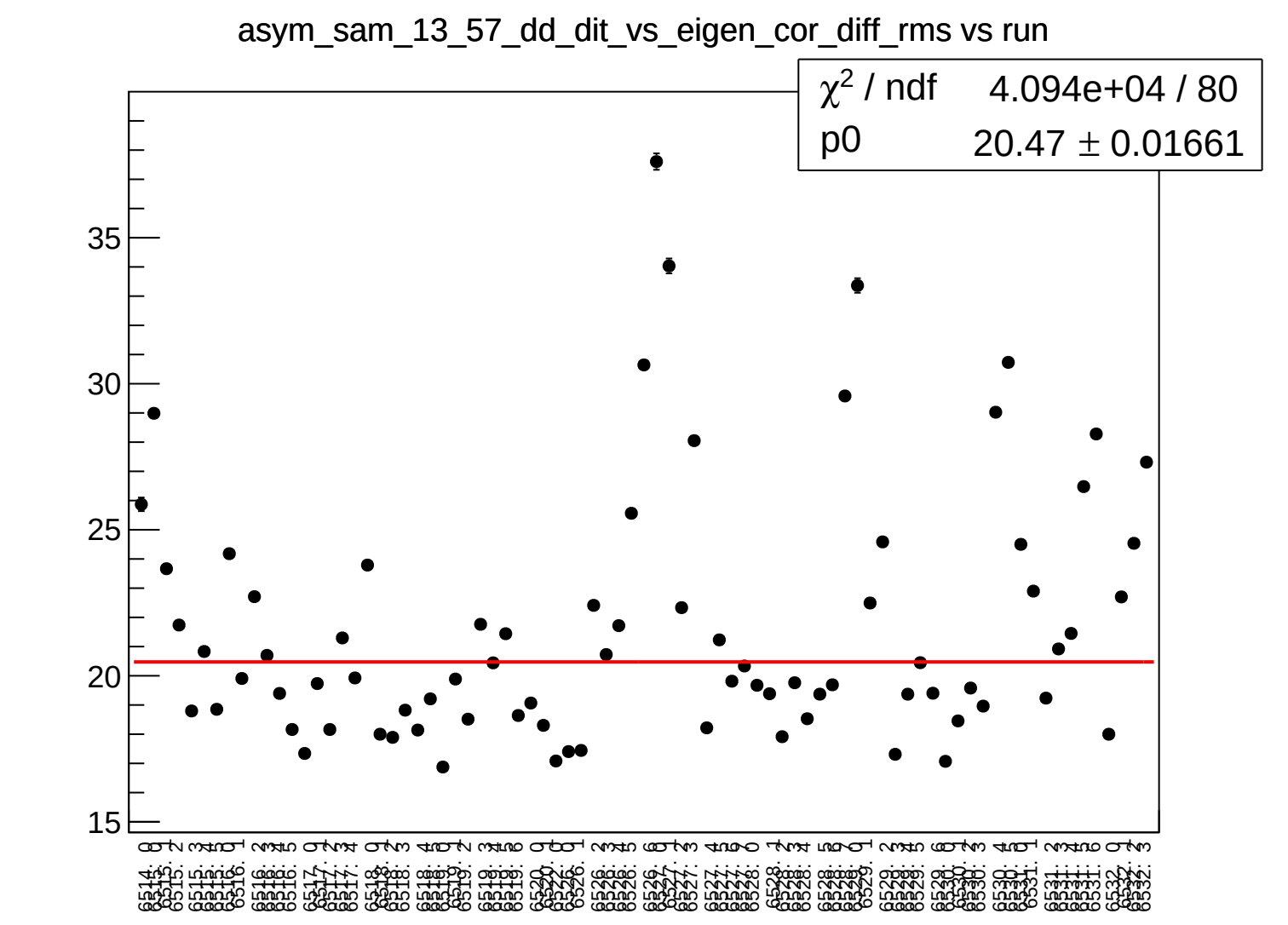

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 6.663e+05 / 80
p0 8.835e−12 ± 9.341e−15
0.03
0.025
0.02
0.015
0.01
0.005
0

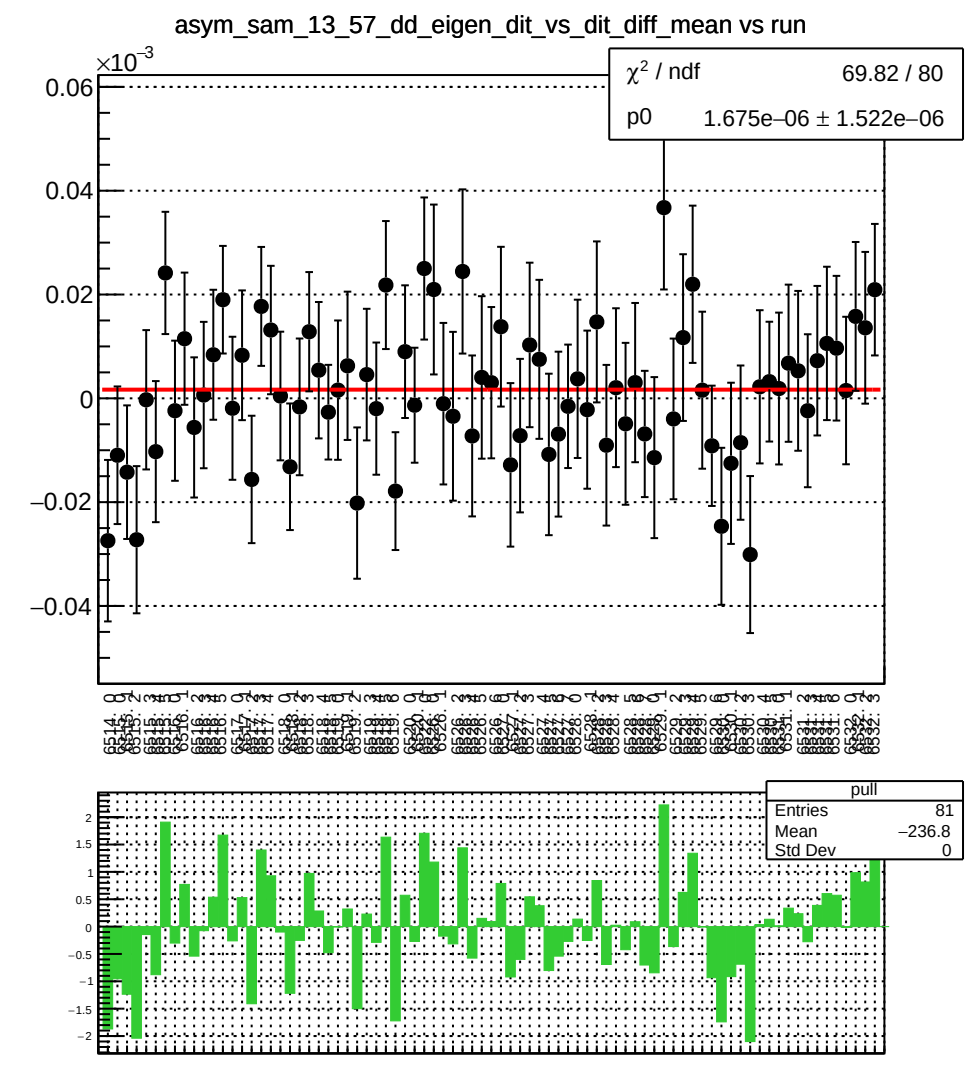

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 65.77 / 80
p0 0.02278 ± 0.02349
pull
Entries 81
Mean −133.8
Std Dev 0

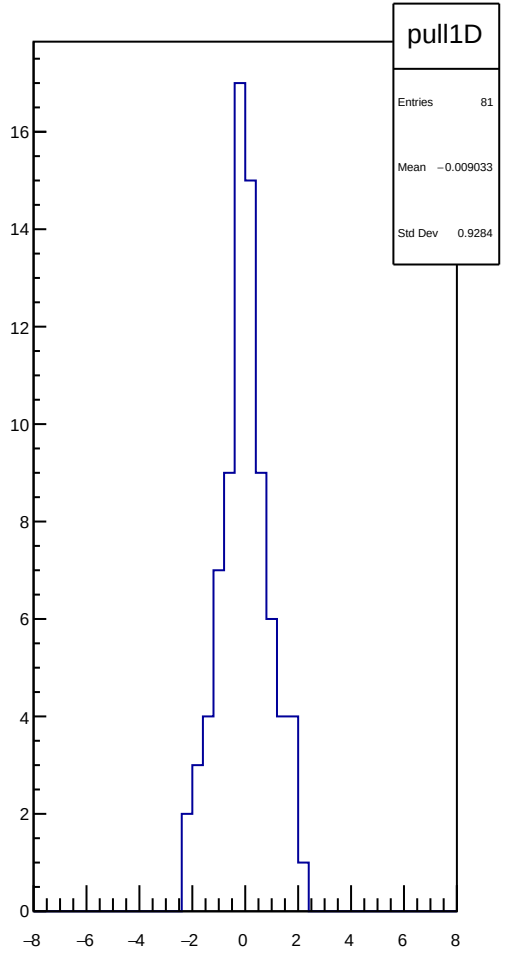

pull1D
Entries 81
Mean −0.02267
Std Dev 0.9008

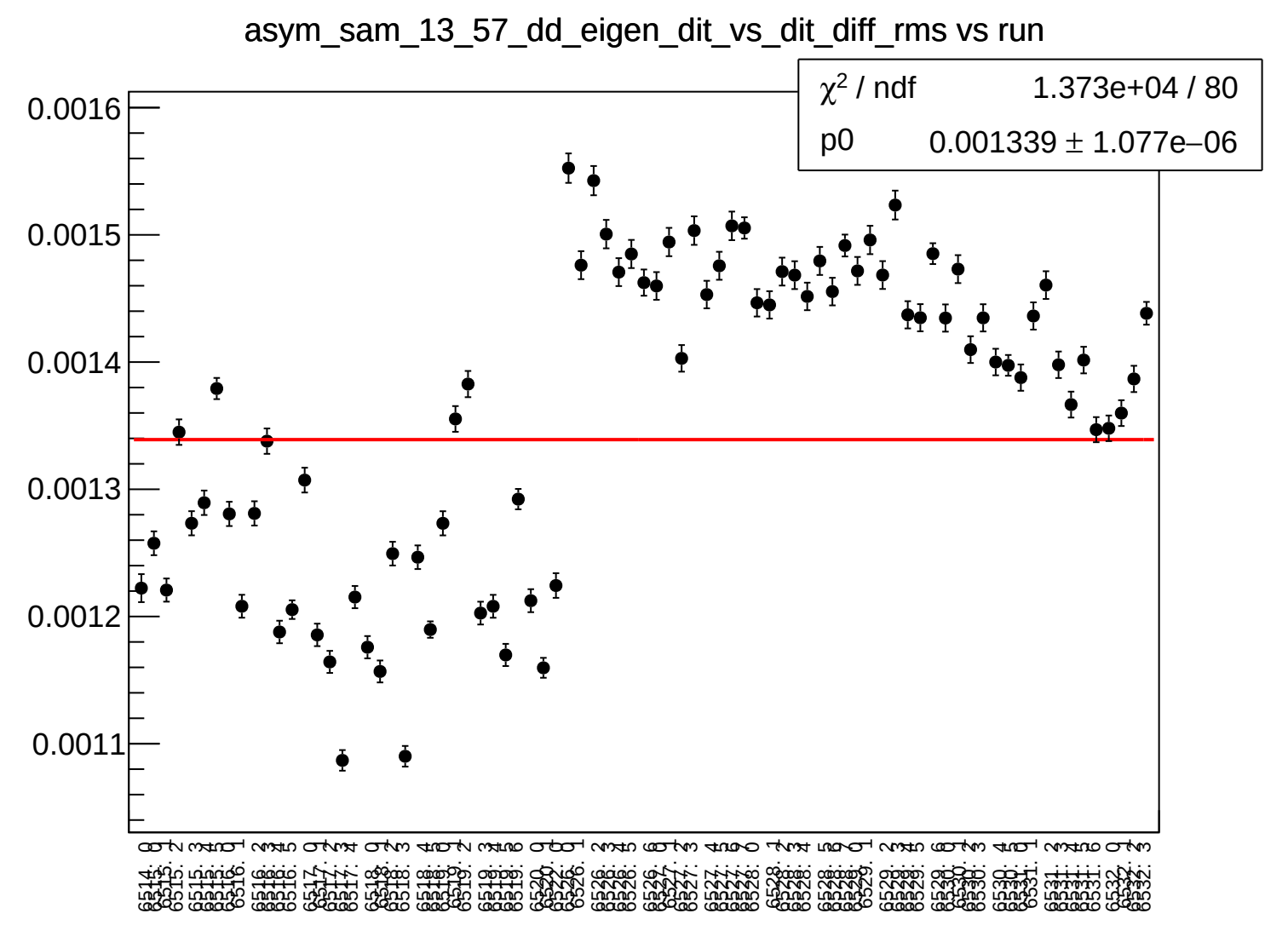

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.094e+04 / 80
p0 20.47 ± 0.01661
35
30
25
20
15

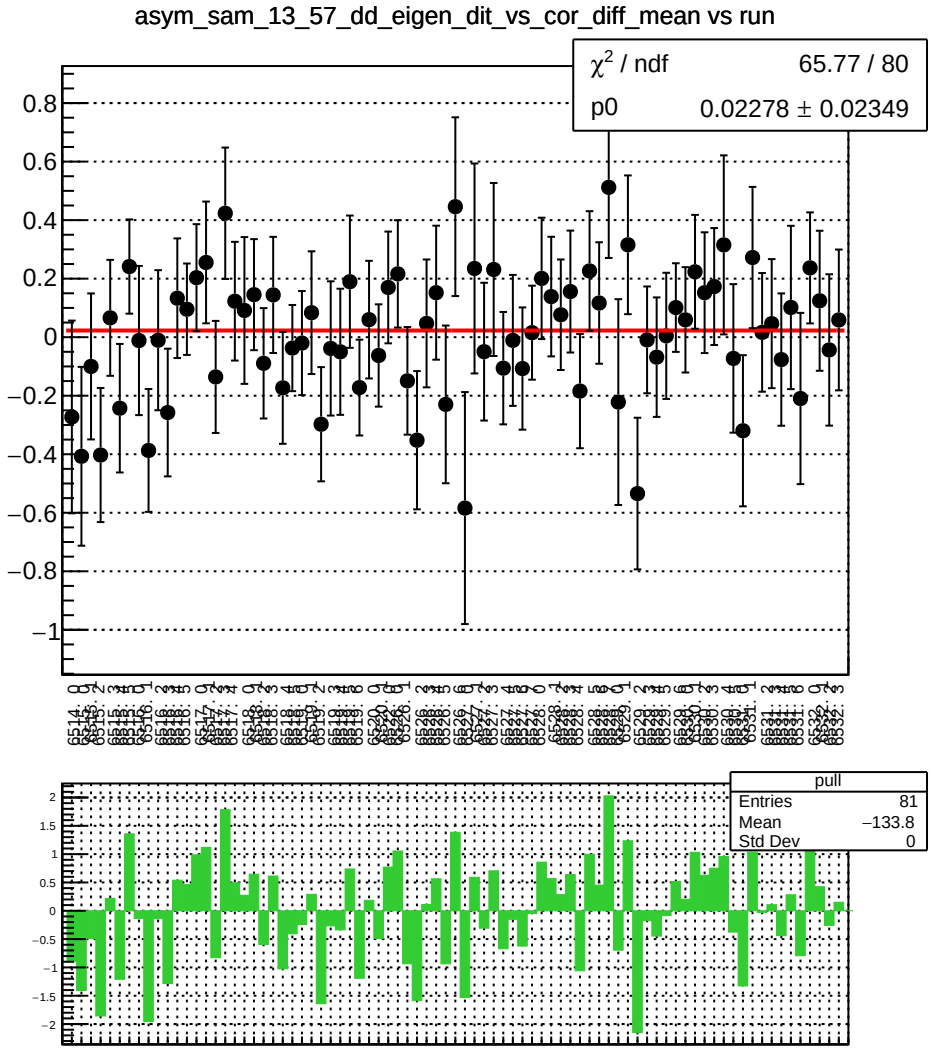

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.77 / 80
p0 0.02278 ± 0.02349
pull
Entries 81
Mean −133.8
Std Dev 0
pull1D
Entries 81
Mean −0.02267
Std Dev 0.9008

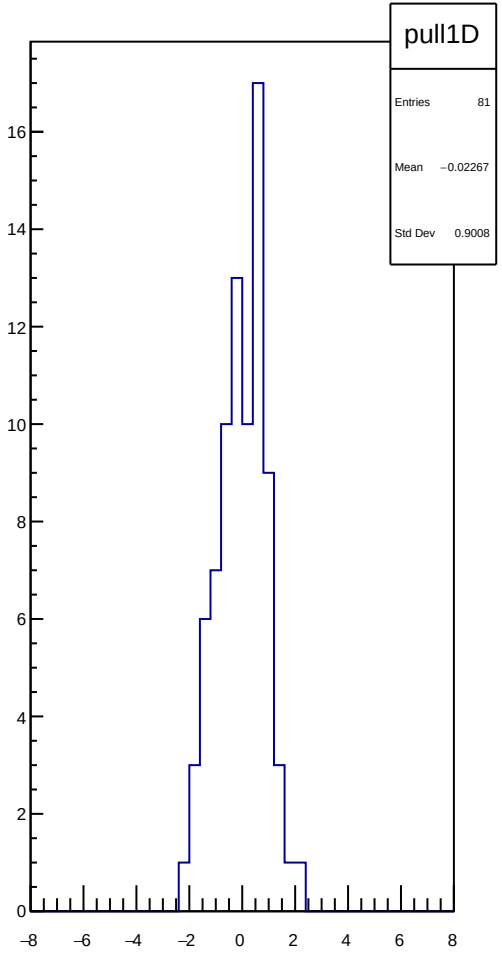

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.094e+04 / 80
p0 20.47 ± 0.01661
35
30
25
20
15

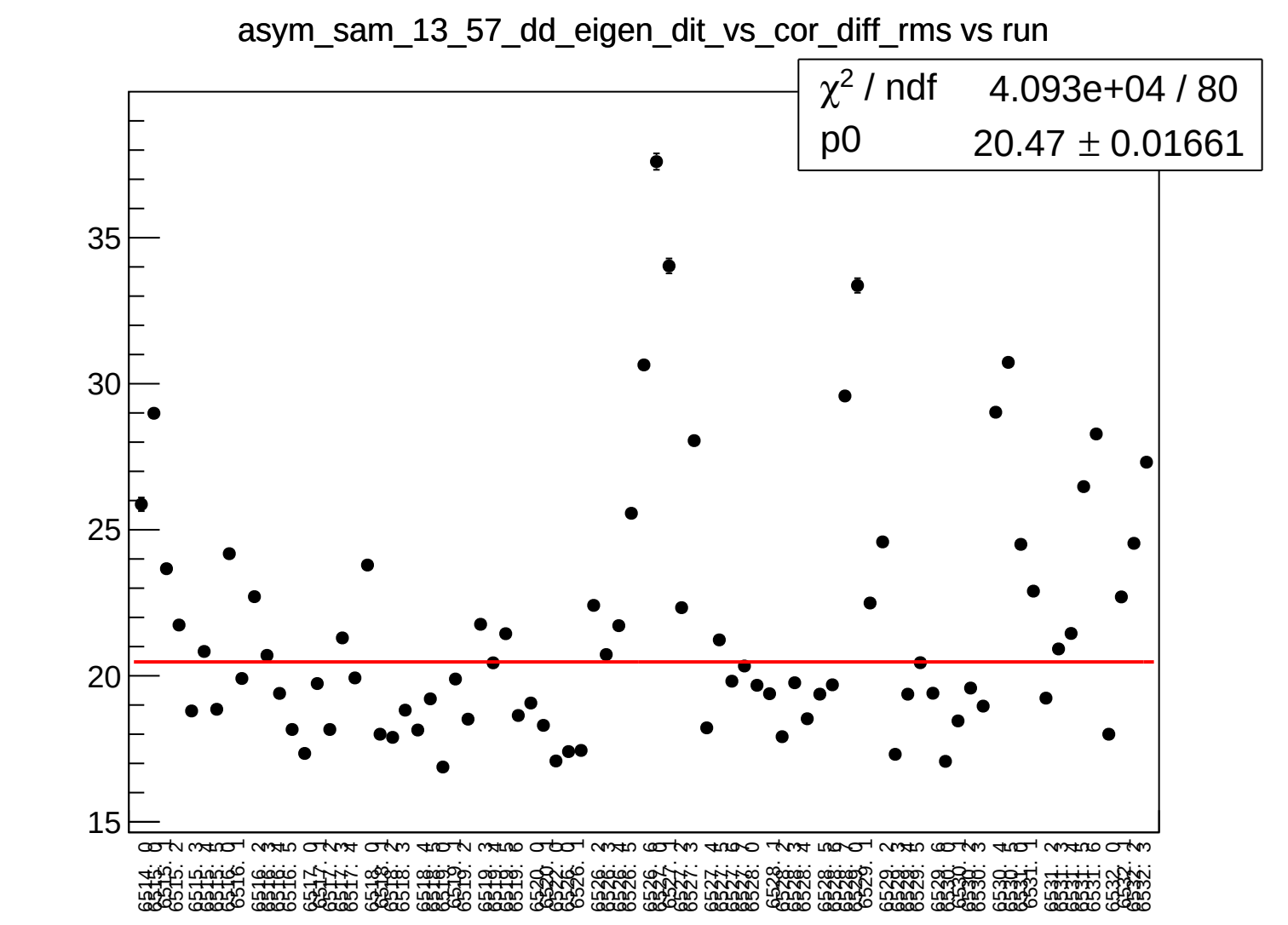

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 69.82 / 80
p0 1.675e−06 ± 1.522e−06
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 81
Mean −236.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

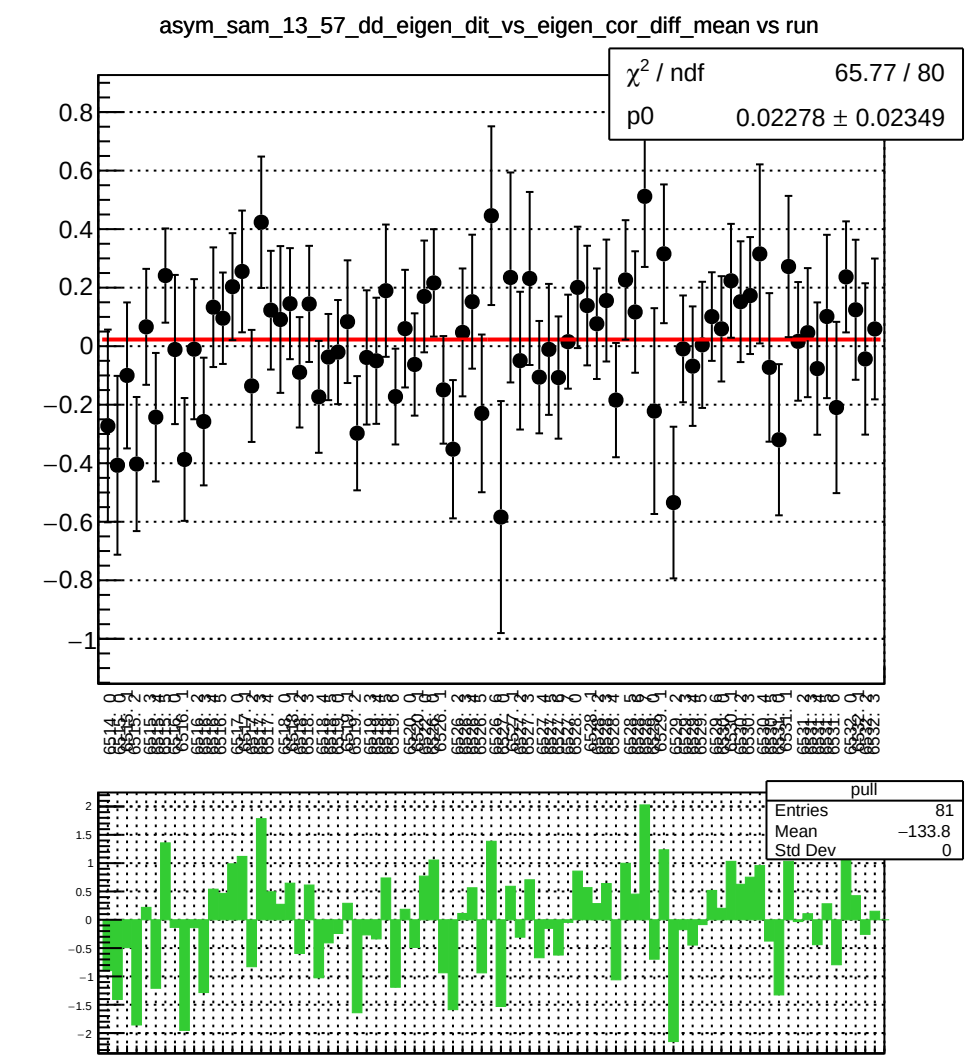

pull1D
Entries 81
Mean −0.009033
Std Dev 0.9284
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

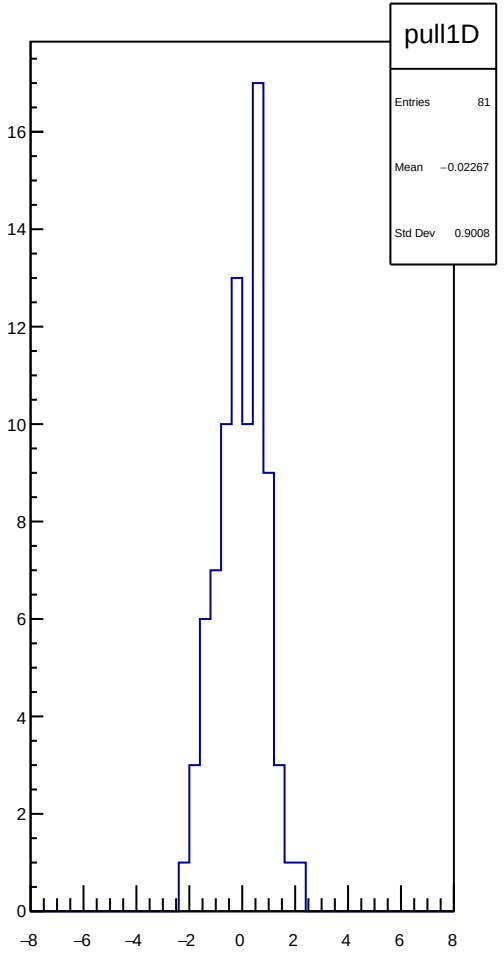

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.373e+04 / 80
p0 0.001339 ± 1.077e−06
0.0016
0.0015
0.0014
0.0013
0.0012
0.0011

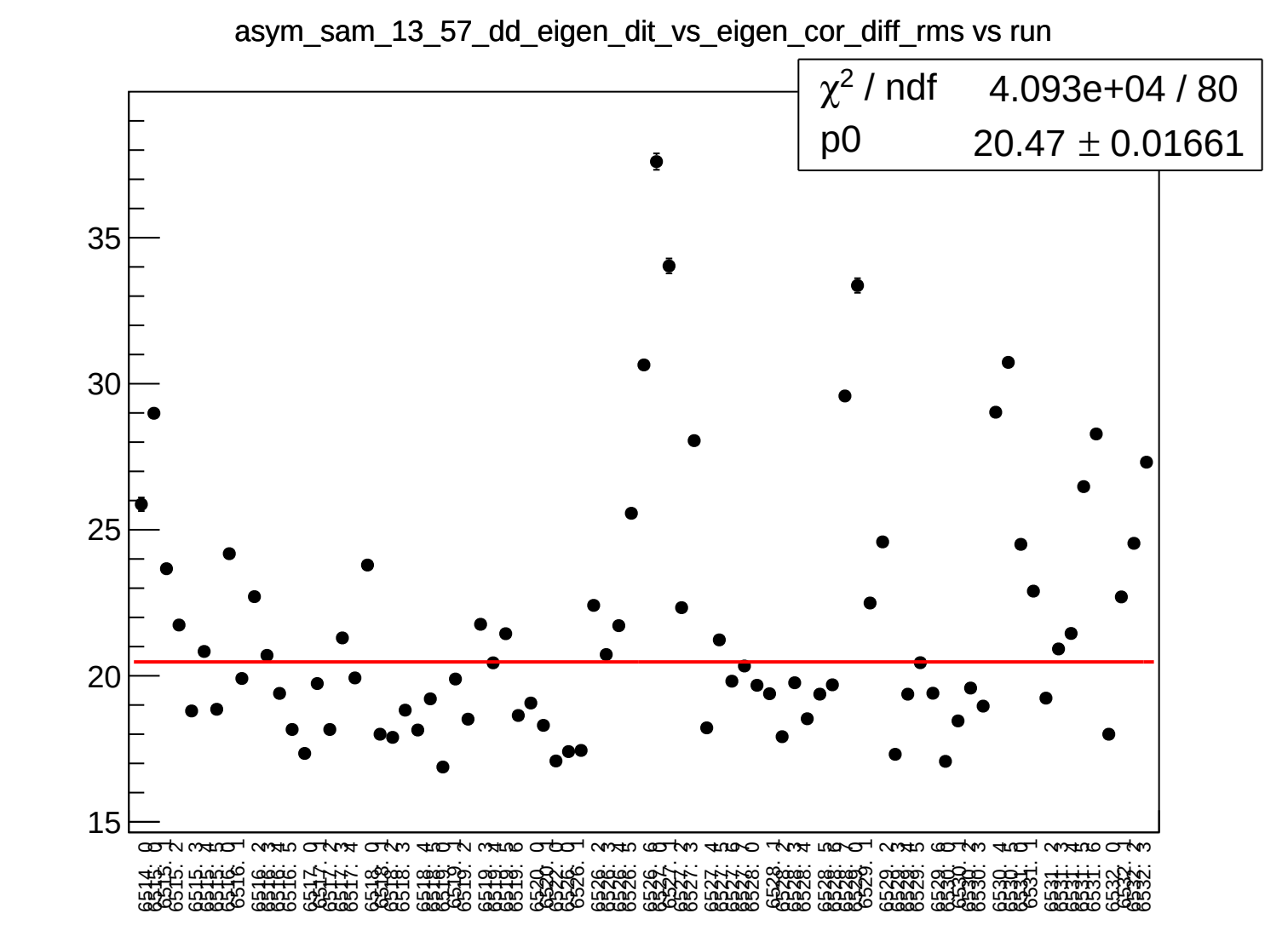

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 65.77 / 80
p0 0.02278 ± 0.02349
pull
Entries 81
Mean −133.8
Std Dev 0

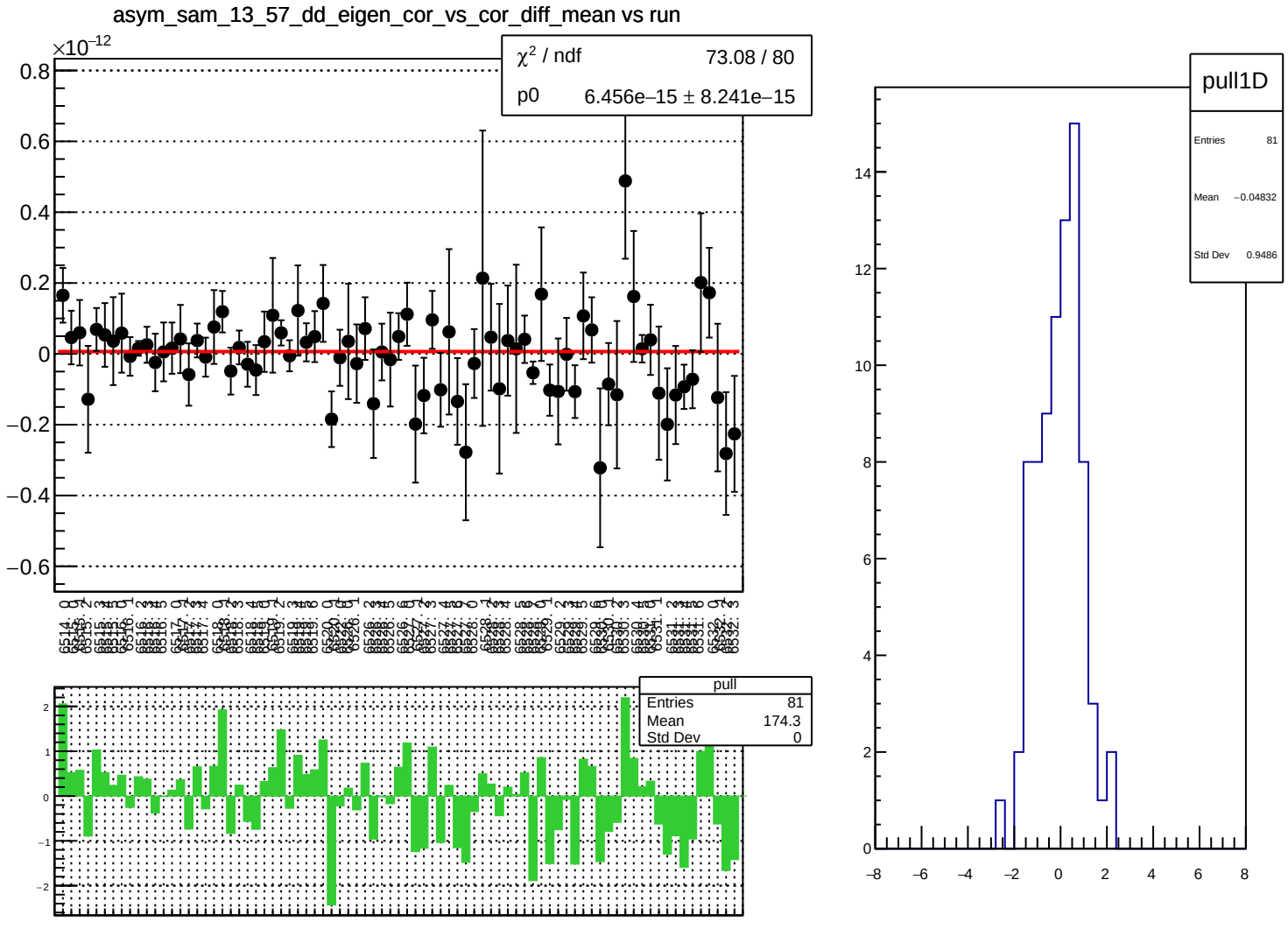

pull1D
Entries 81
Mean −0.02267
Std Dev 0.9008

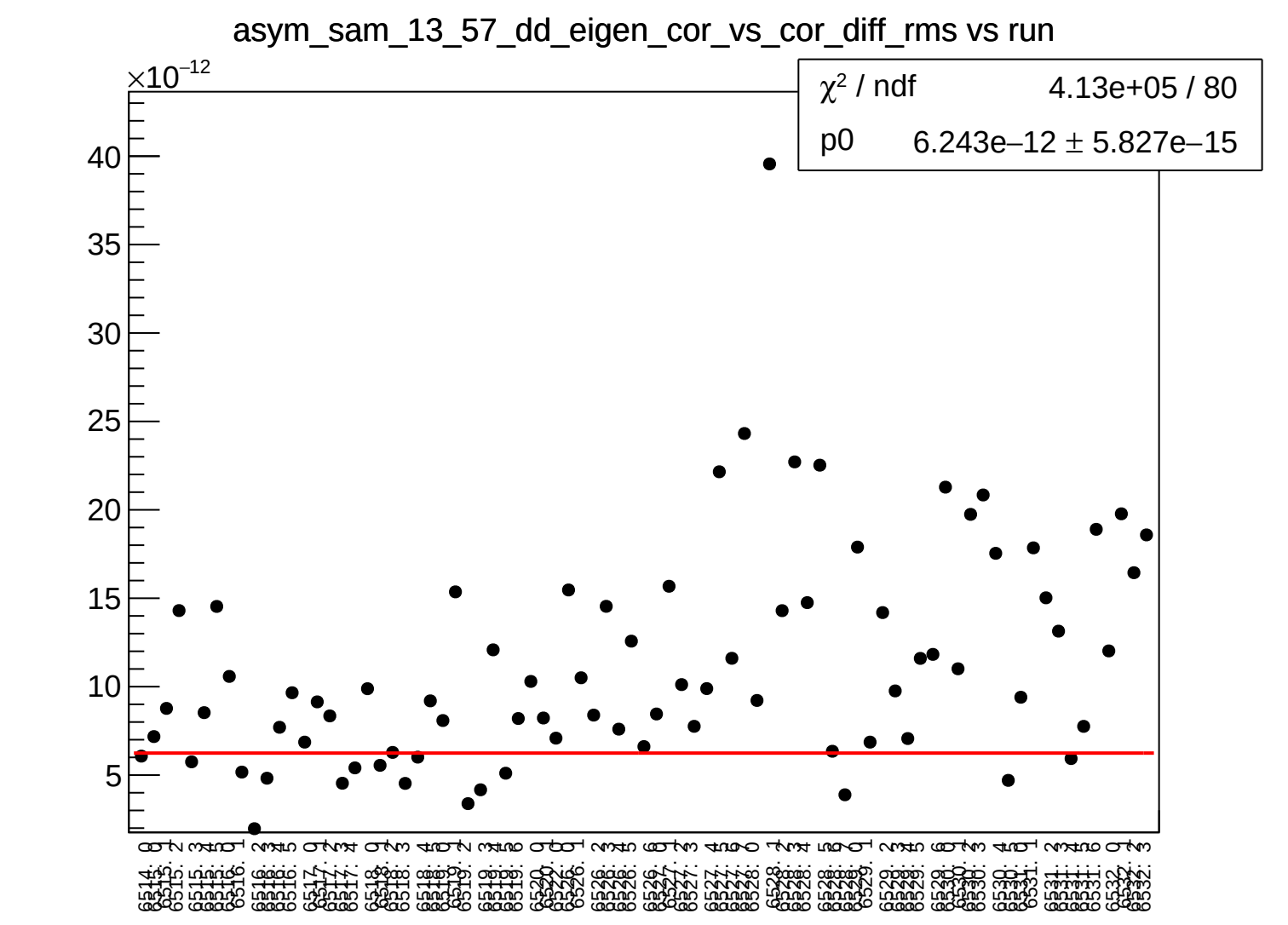

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.093e+04 / 80
p0 20.47 ± 0.01661
35
30
25
20
15

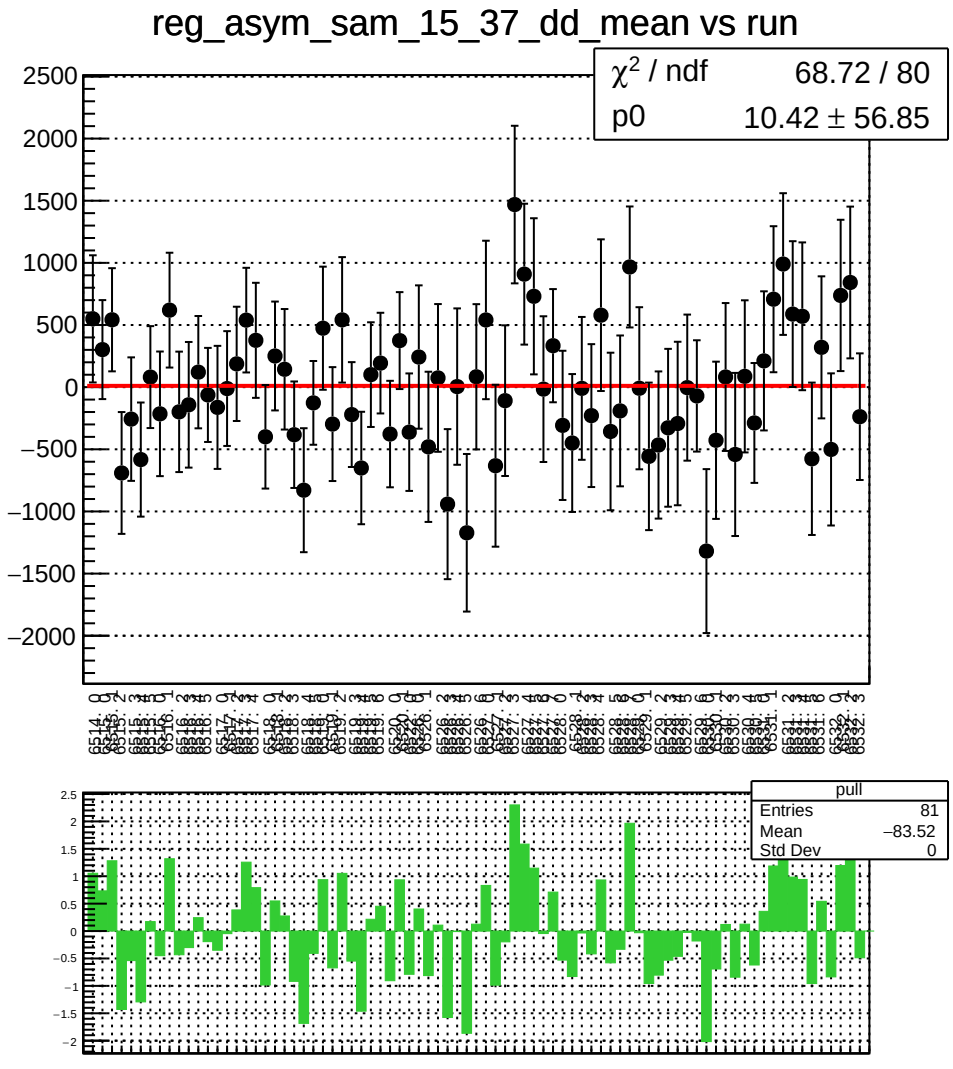

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.77 / 80
p0 0.02278 ± 0.02349
pull
Entries 81
Mean −133.8
Std Dev 0

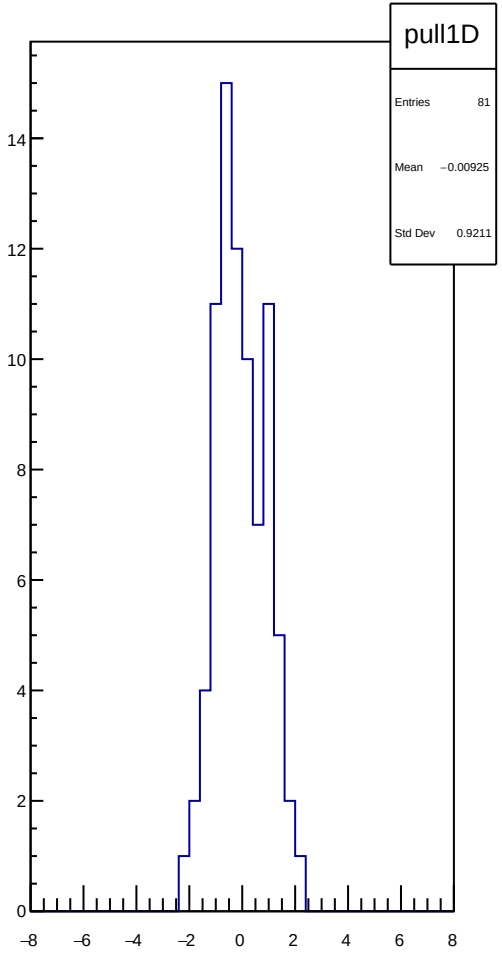

pull1D
Entries 81
Mean −0.02267
Std Dev 0.9008

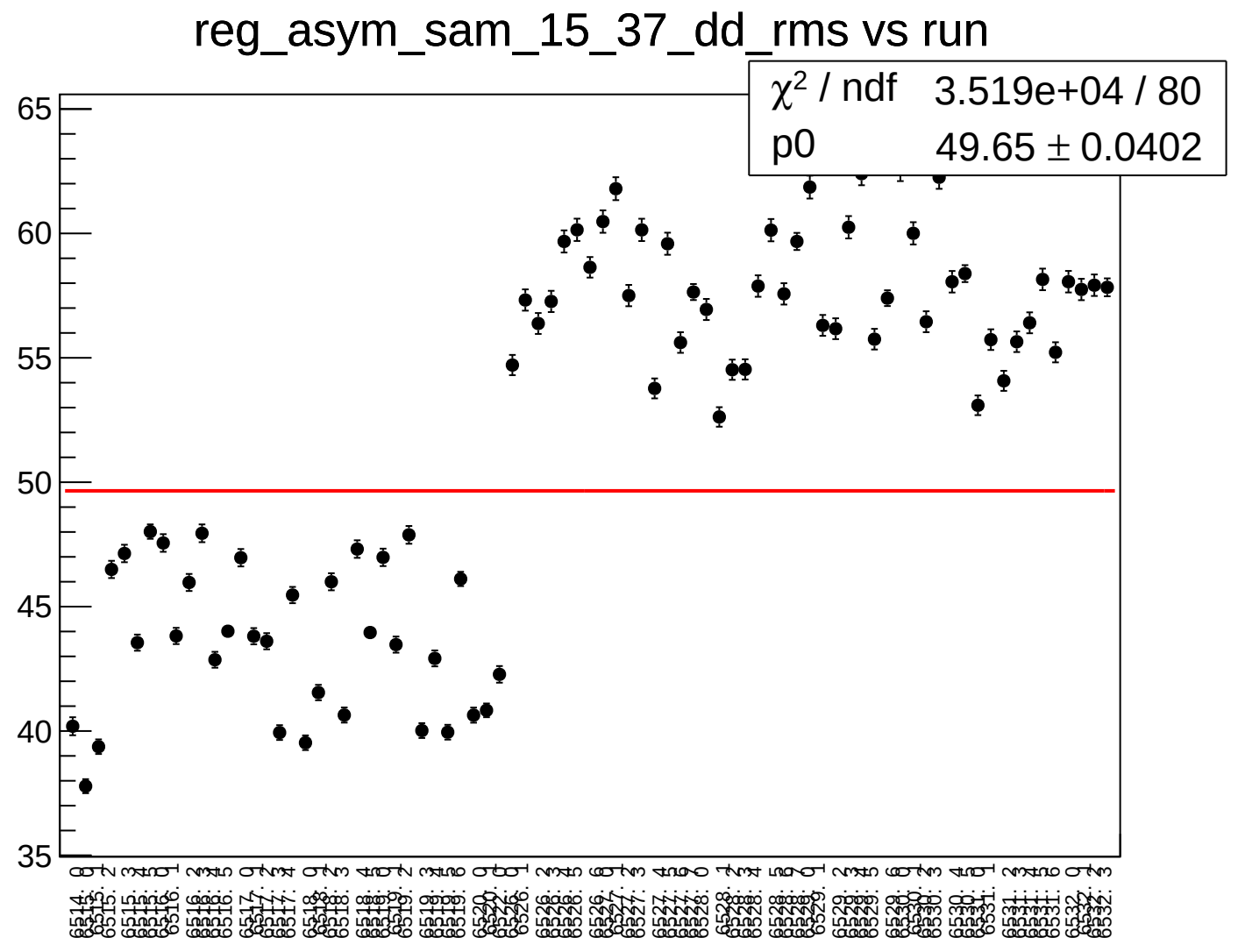

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.093e+04 / 80
p0 20.47 ± 0.01661
35
30
25
20
15

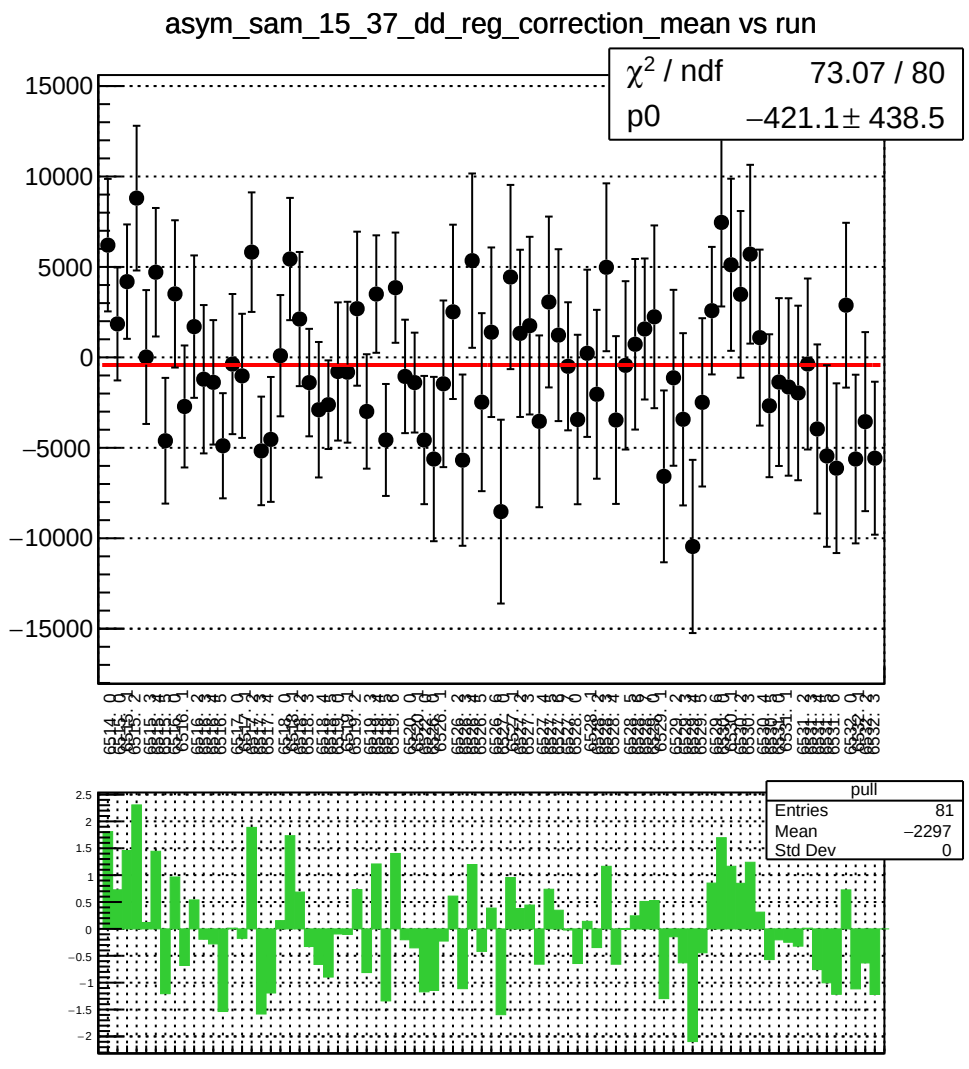

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 73.08 / 80
p0 6.456e−15 ± 8.241e−15
pull
Entries 81
Mean 174.3
Std Dev 0
pull1D
Entries 81
Mean −0.04832
Std Dev 0.9486

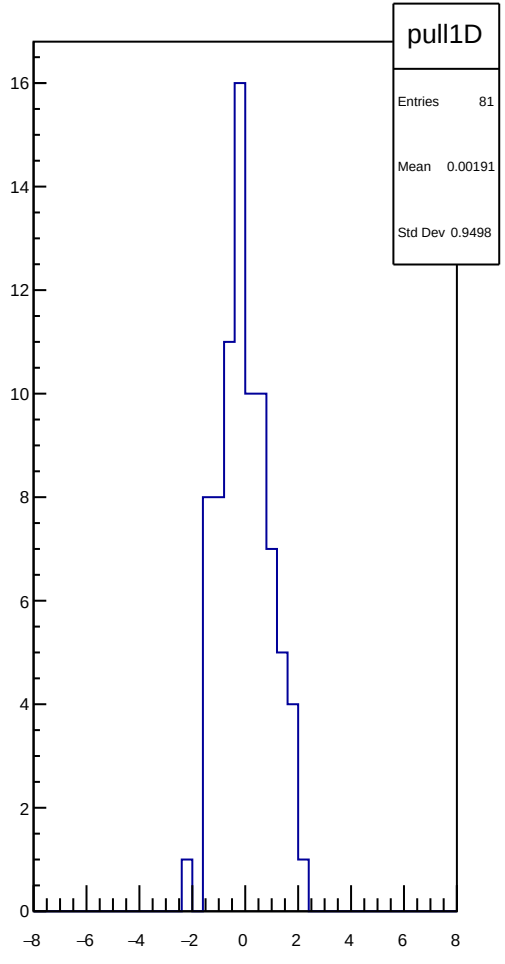

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.13e+05 / 80
p0 6.243e−12 ± 5.827e−15
40
35
30
25
20
15
10
5

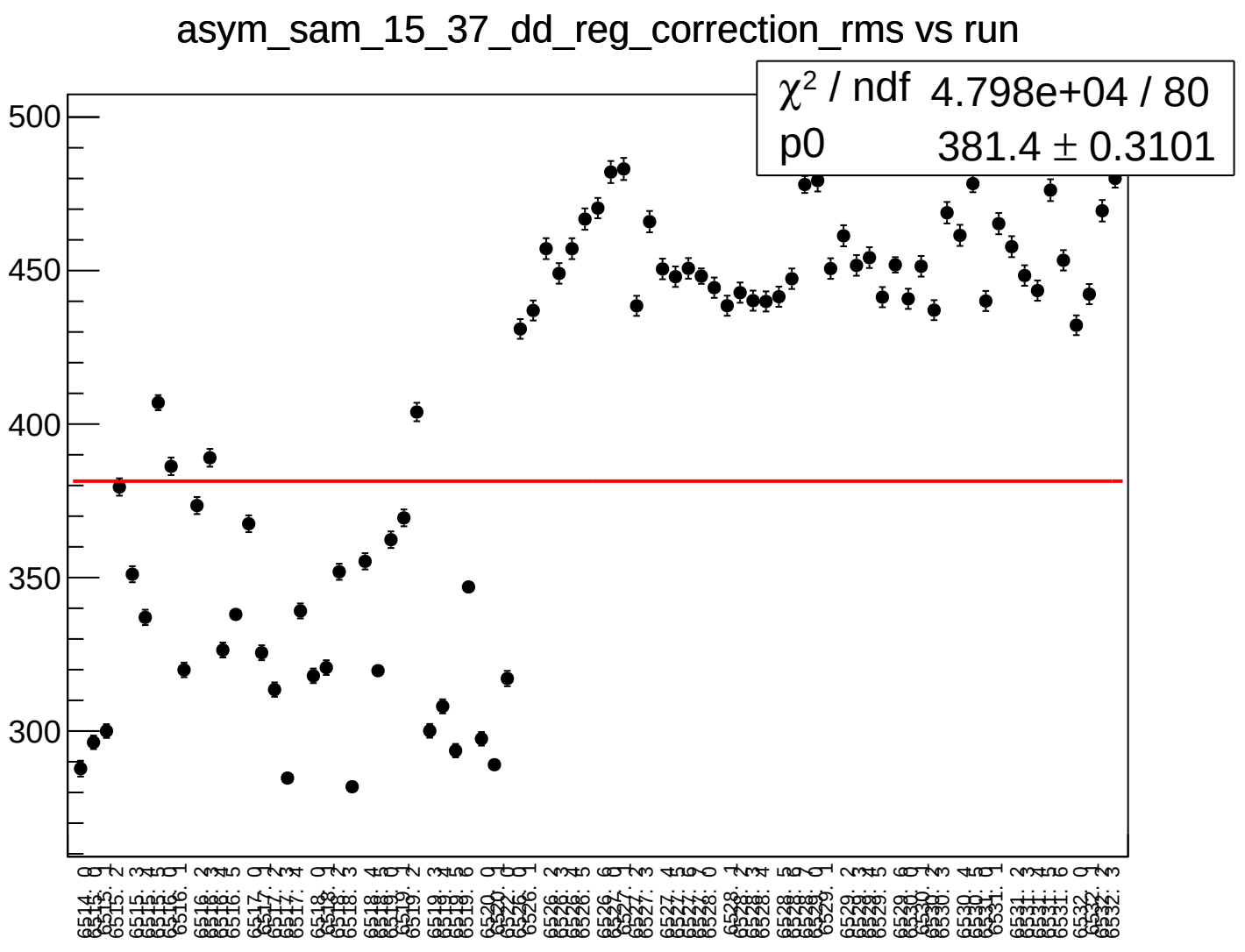

reg_asym_sam_15_37_dd_mean vs run
χ^2 / ndf 68.72 / 80
p0 10.42 ± 56.85
pull
Entries 81
Mean −83.52
Std Dev 0

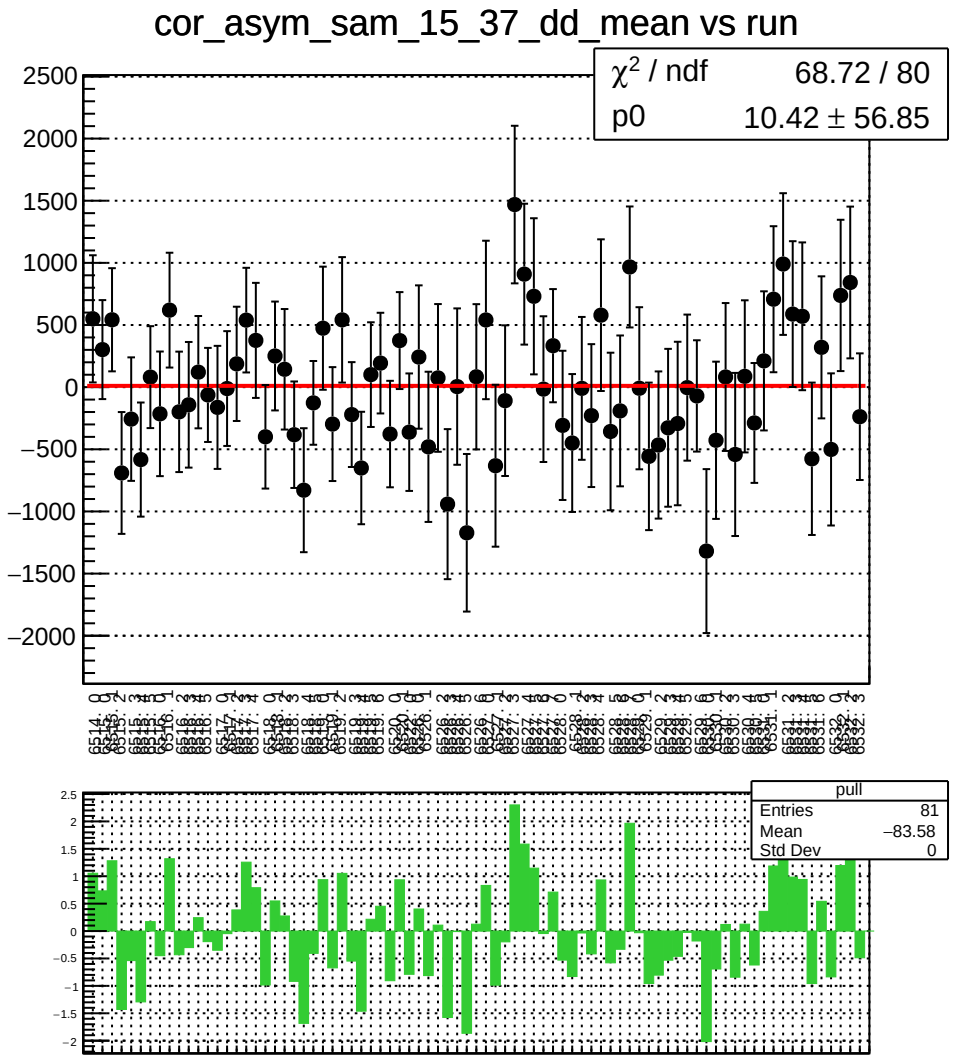

pull1D
Entries 81
Mean −0.00925
Std Dev 0.9211

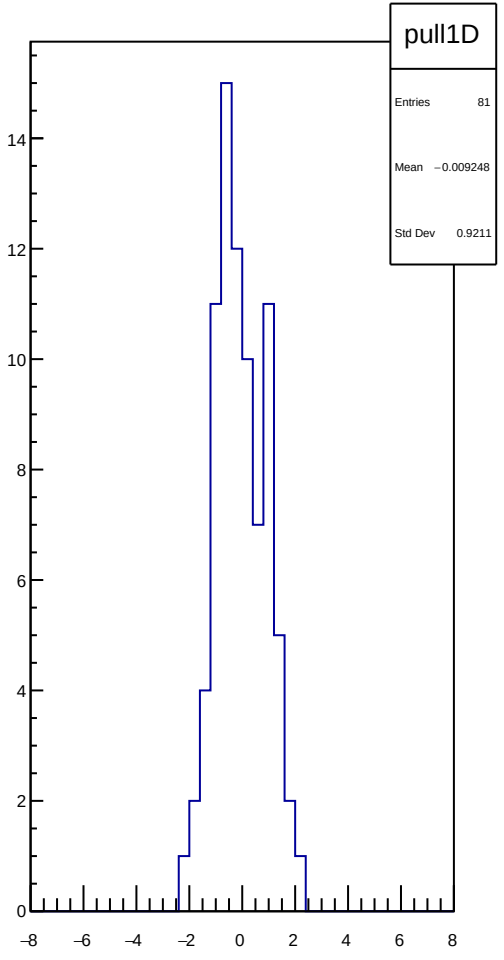

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 3.519e+04 / 80
p0 49.65 ± 0.0402
65
60
55
50
45
40
35

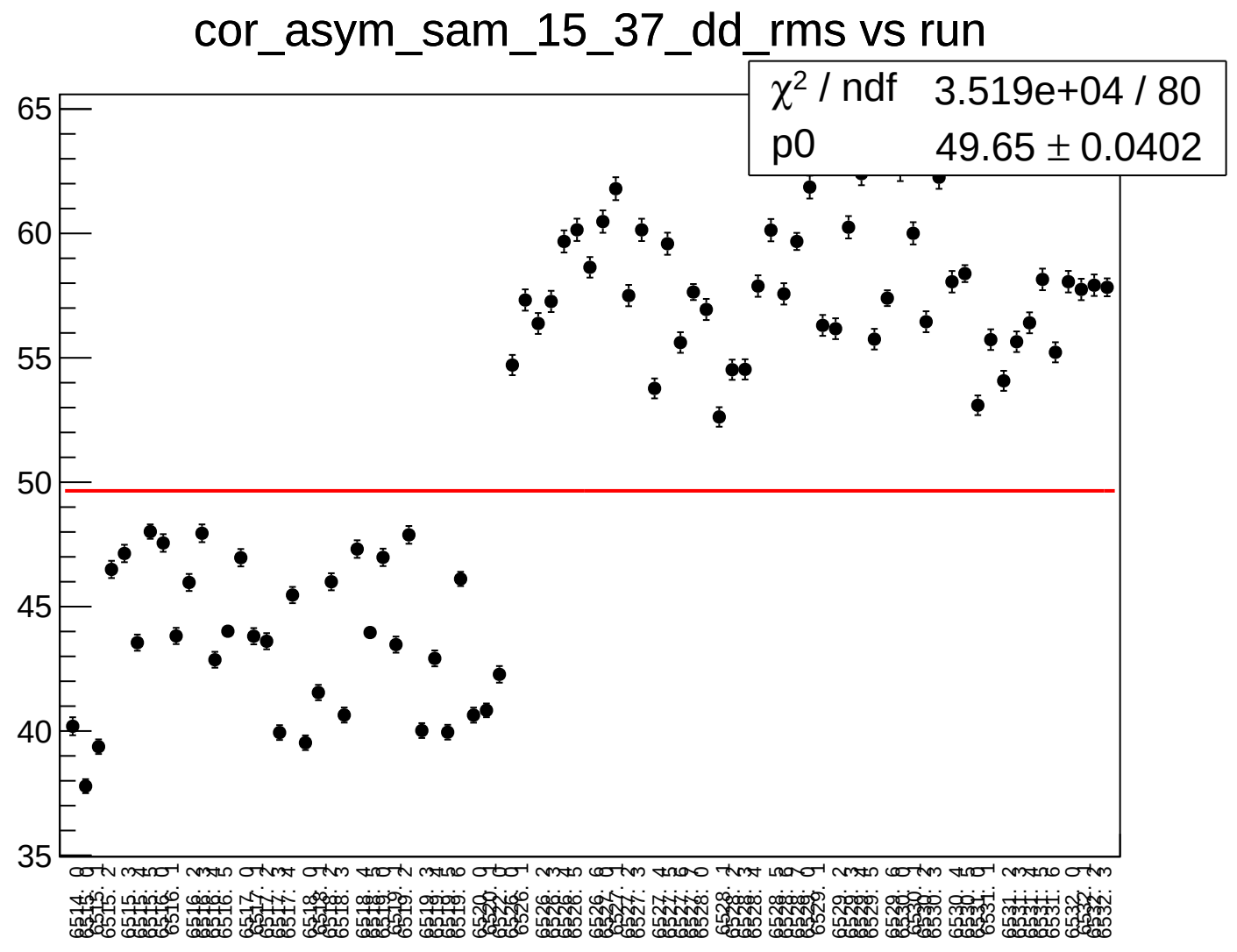

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 73.07 / 80
p0 −421.1 ± 438.5
pull
Entries 81
Mean −2297
Std Dev 0

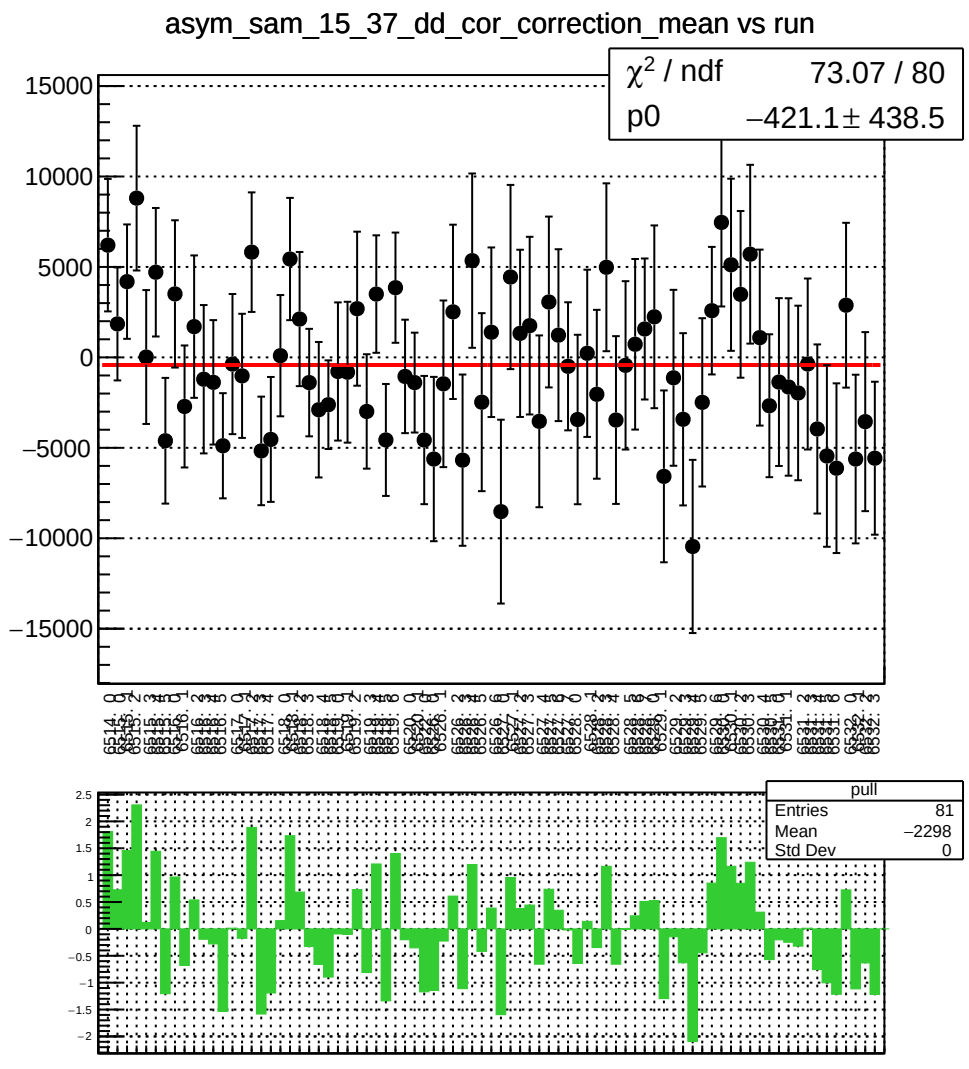

pull1D
Entries 81
Mean 0.00191
Std Dev 0.9498

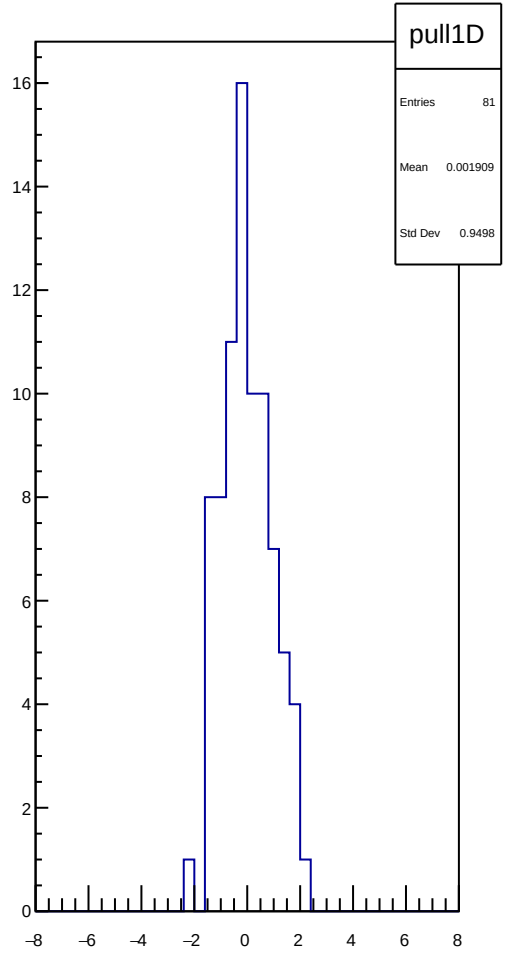

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 4.798e+04 / 80
p0 381.4 ± 0.3101
500
450
400
350
300

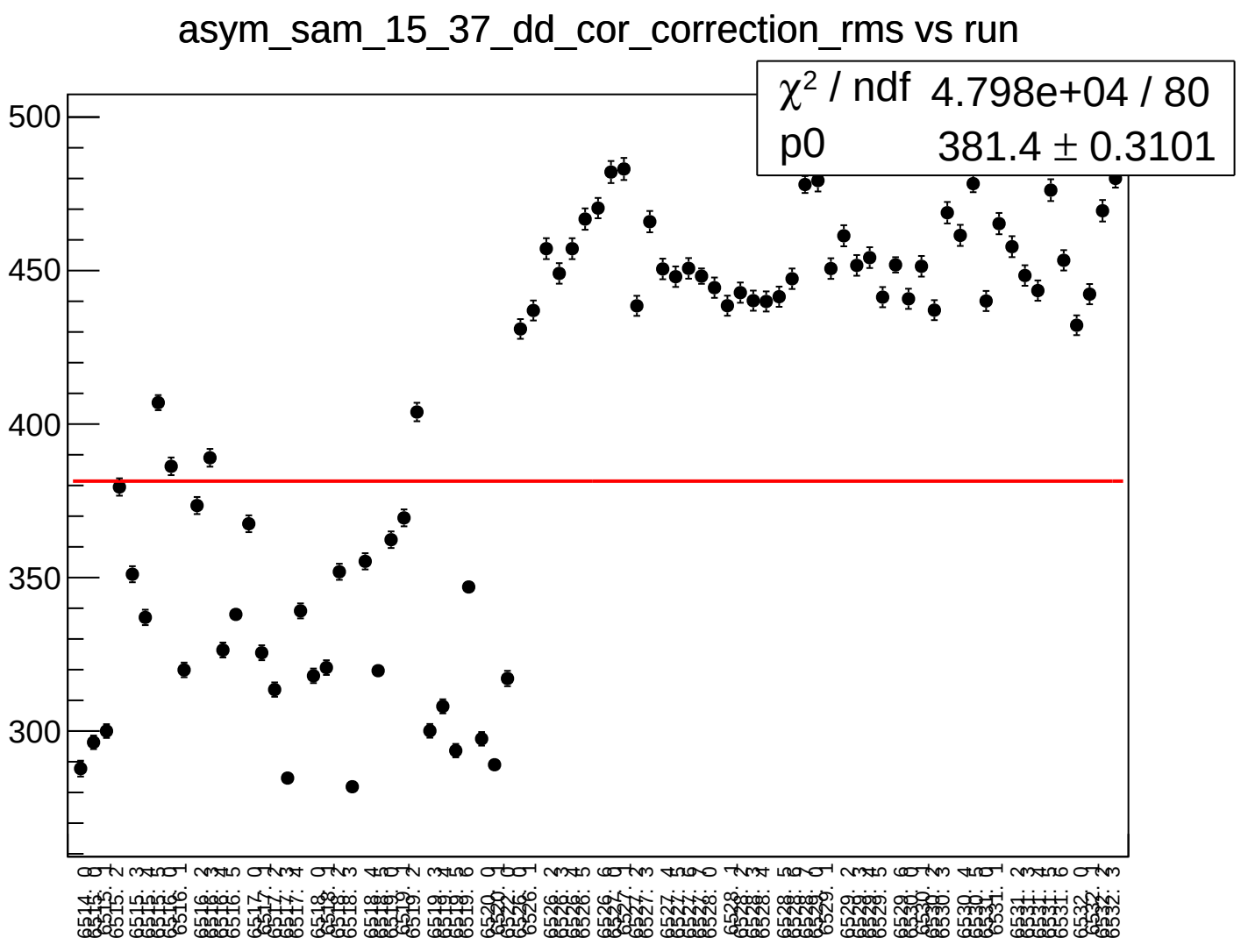

cor_asym_sam_15_37_dd_mean vs run
χ^2 / ndf 68.72 / 80
p0 10.42 ± 56.85
pull
Entries 81
Mean −83.58
Std Dev 0

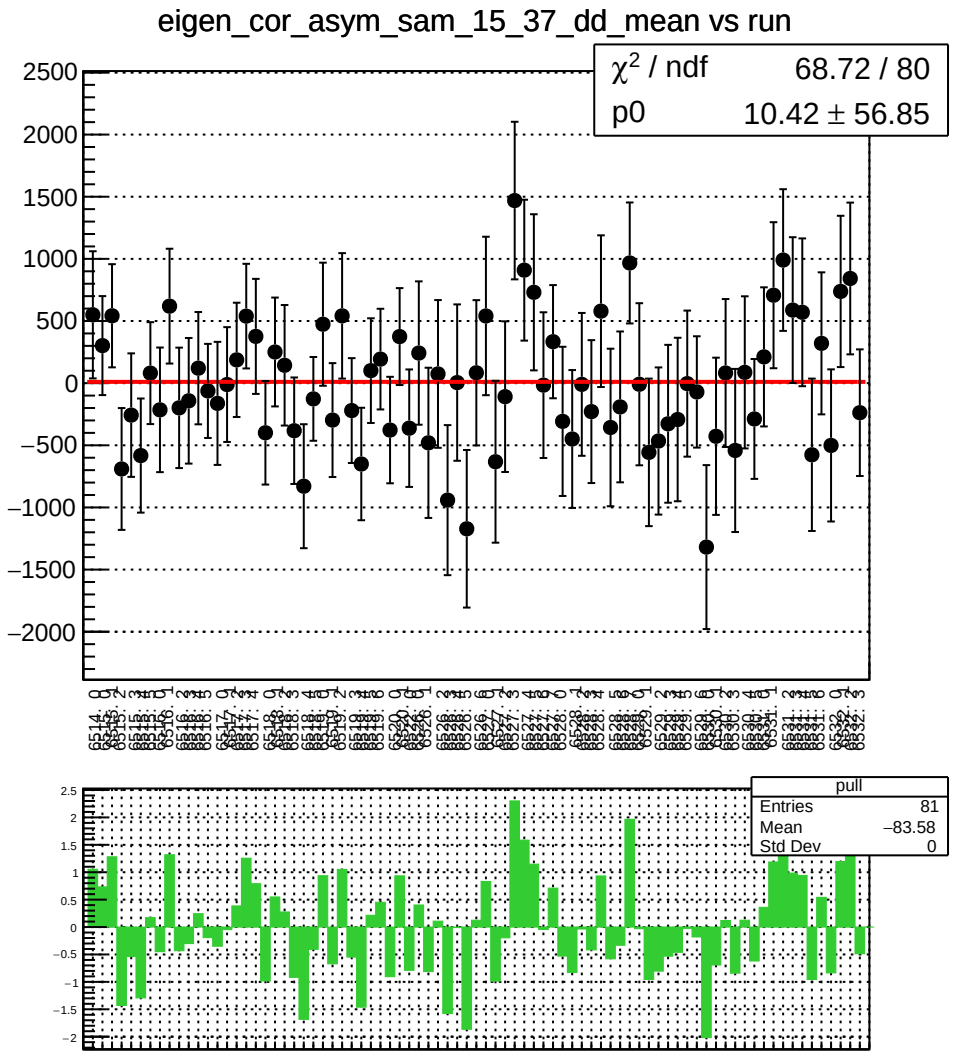

pull1D
Entries 81
Mean −0.009248
Std Dev 0.9211

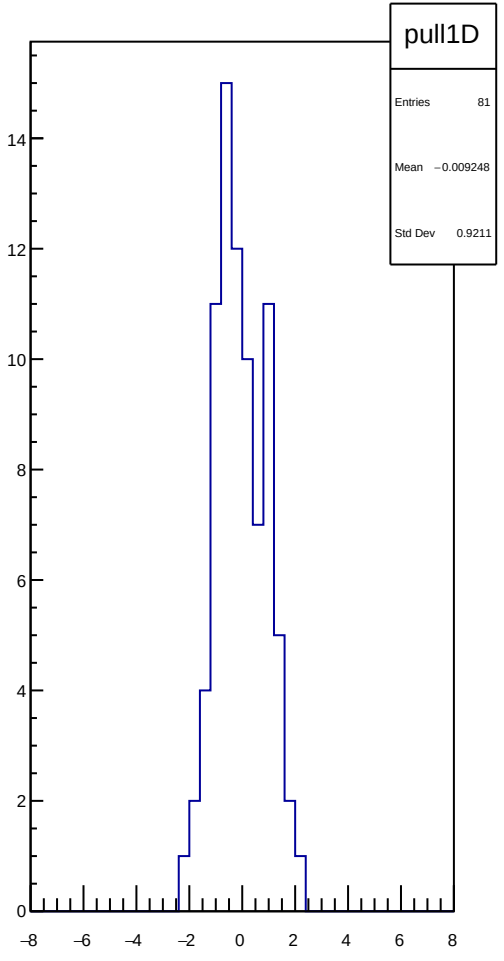

cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 3.519e+04 / 80
p0 49.65 ± 0.0402
65
60
55
50
45
40
35

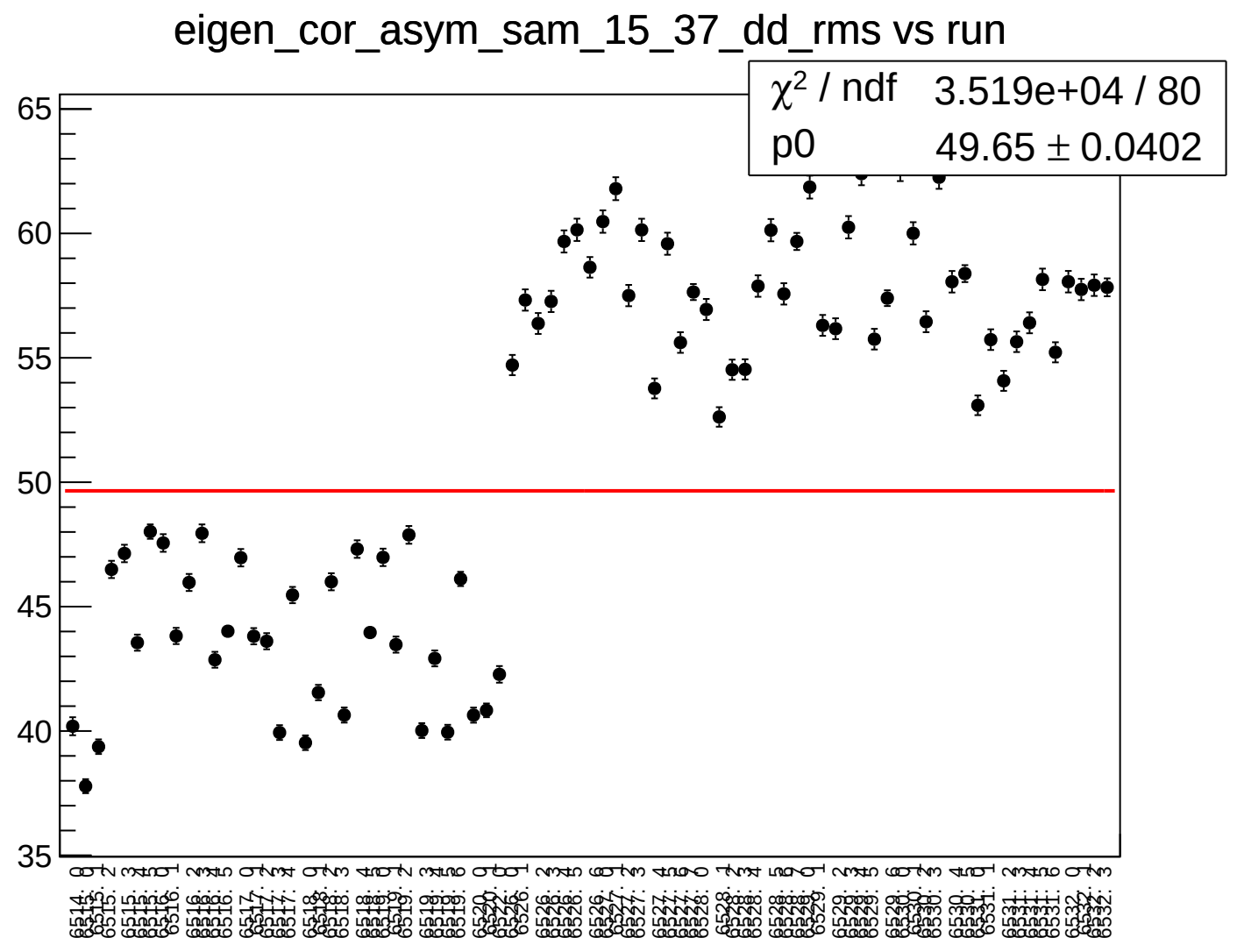

asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 73.07 / 80
p0 −421.1 ± 438.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean −2298
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

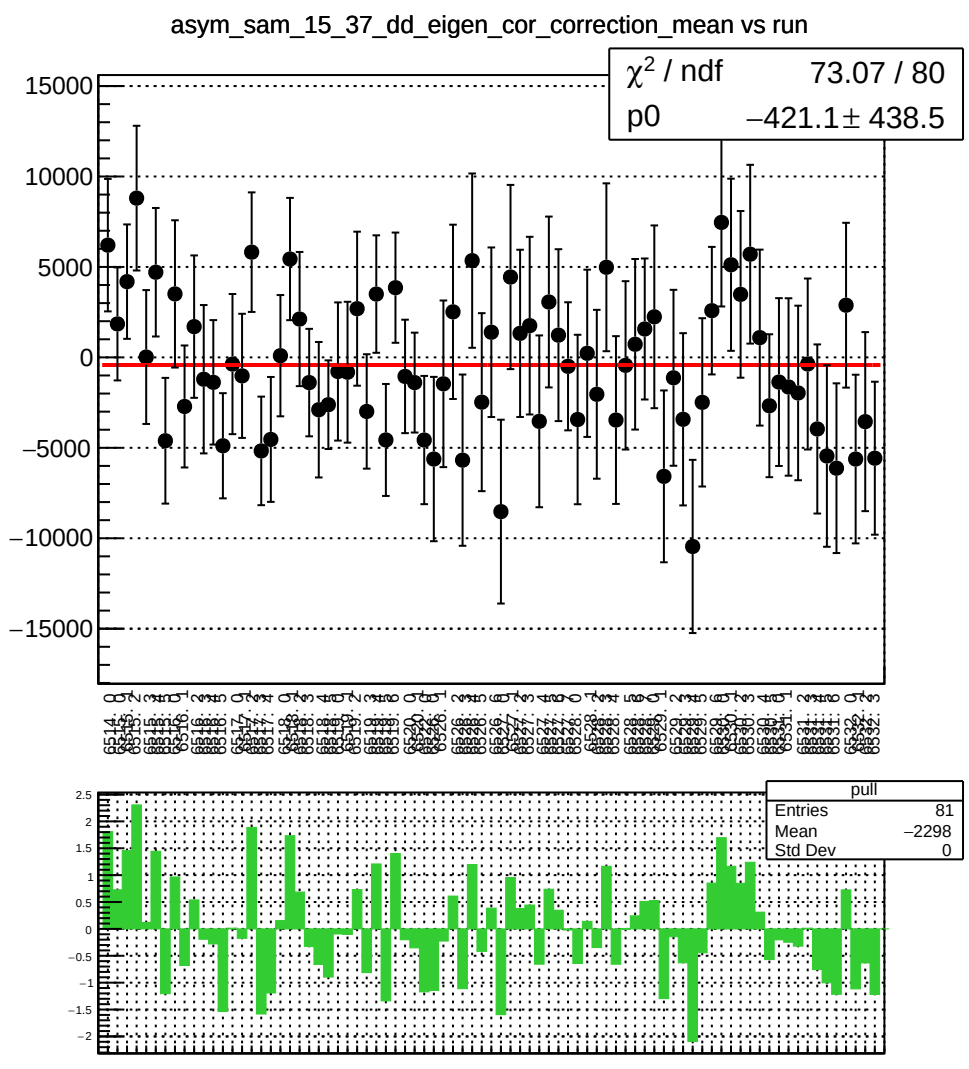

pull1D
Entries 81
Mean 0.001909
Std Dev 0.9498
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

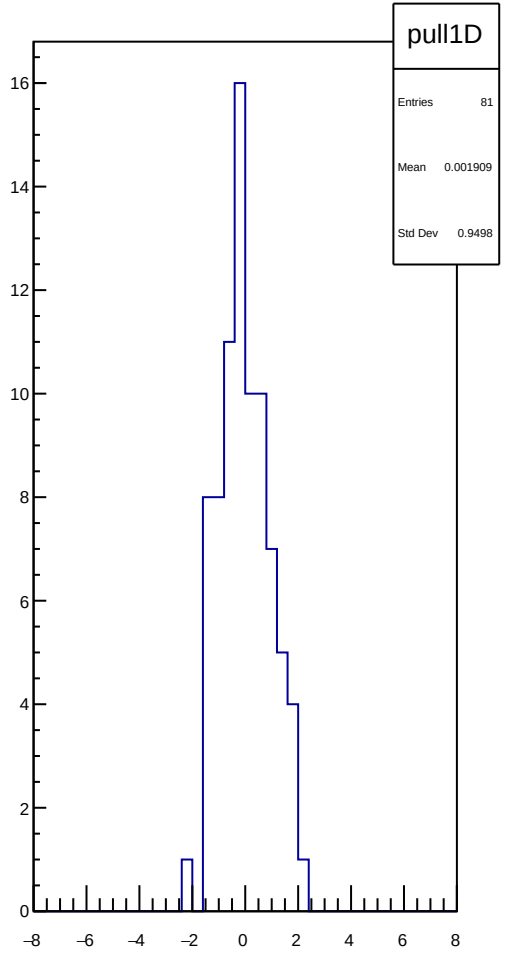

asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 4.798e+04 / 80
p0 381.4 ± 0.3101
500
450
400
350
300

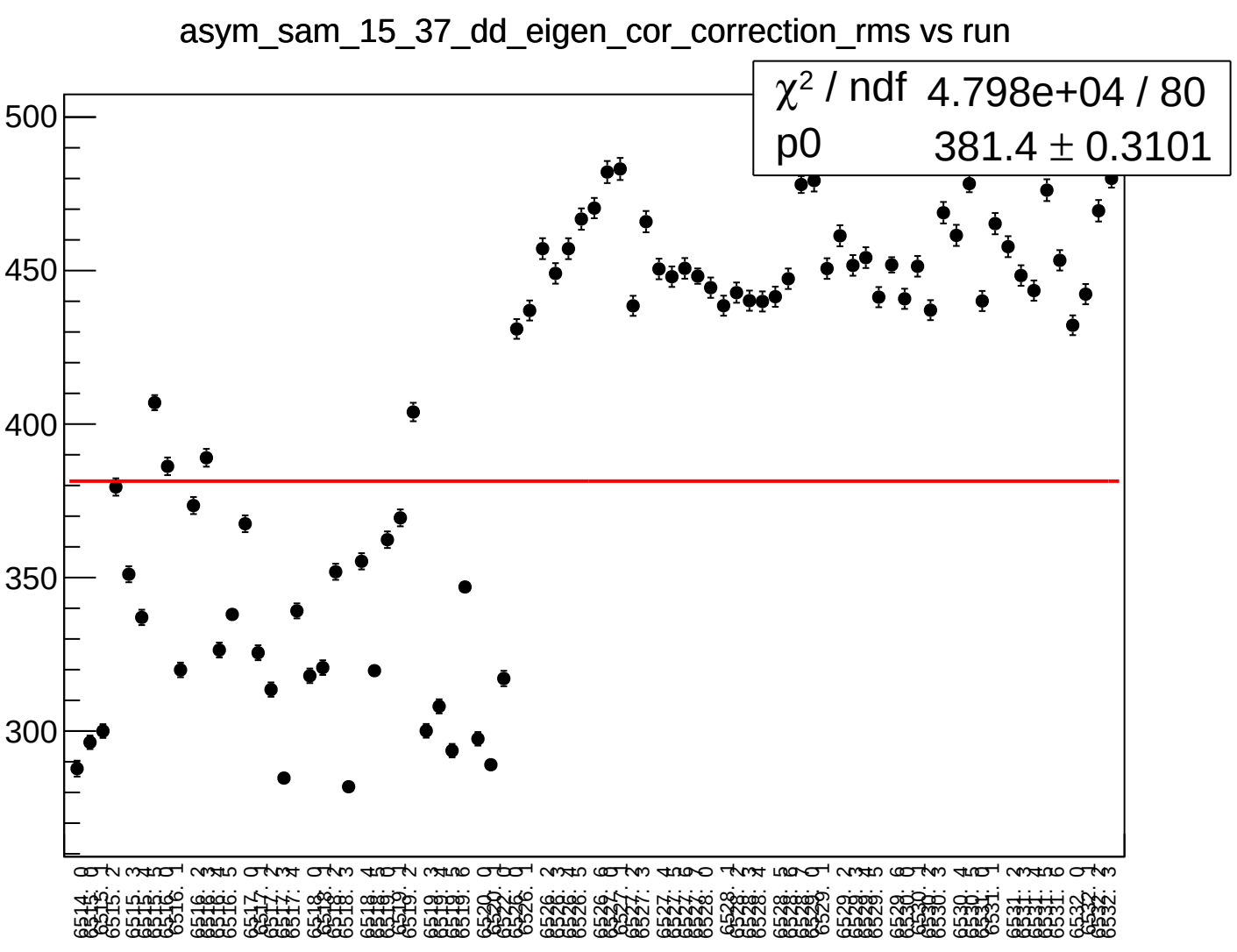

eigen_cor_asym_sam_15_37_dd_mean vs run
χ^2 / ndf 68.72 / 80
p0 10.42 ± 56.85
pull
Entries 81
Mean −83.58
Std Dev 0

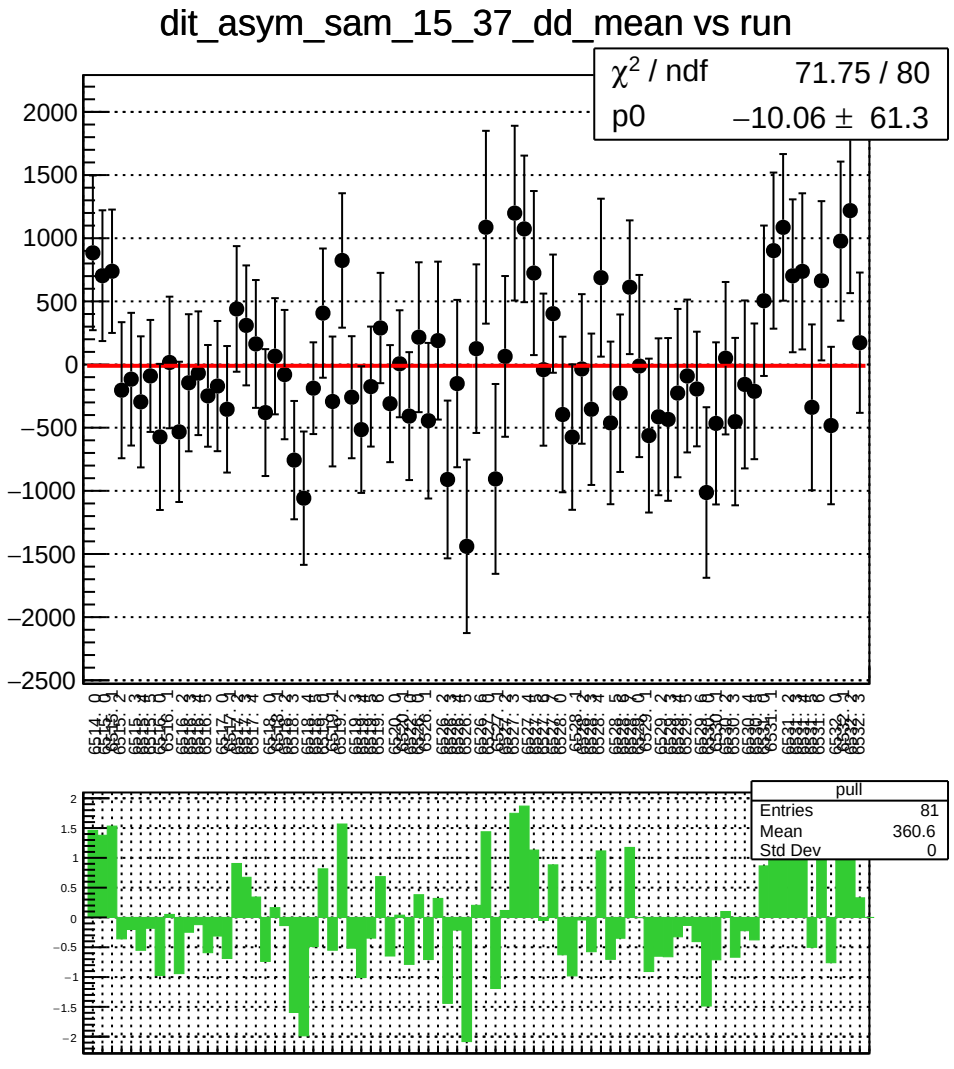

pull1D
Entries 81
Mean −0.009248
Std Dev 0.9211

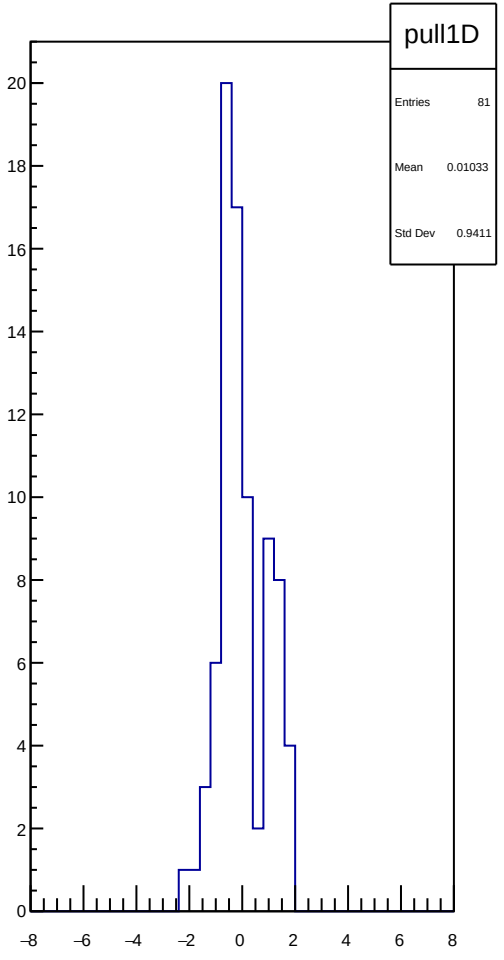

eigen_cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 3.519e+04 / 80
p0 49.65 ± 0.0402
65
60
55
50
45
40
35

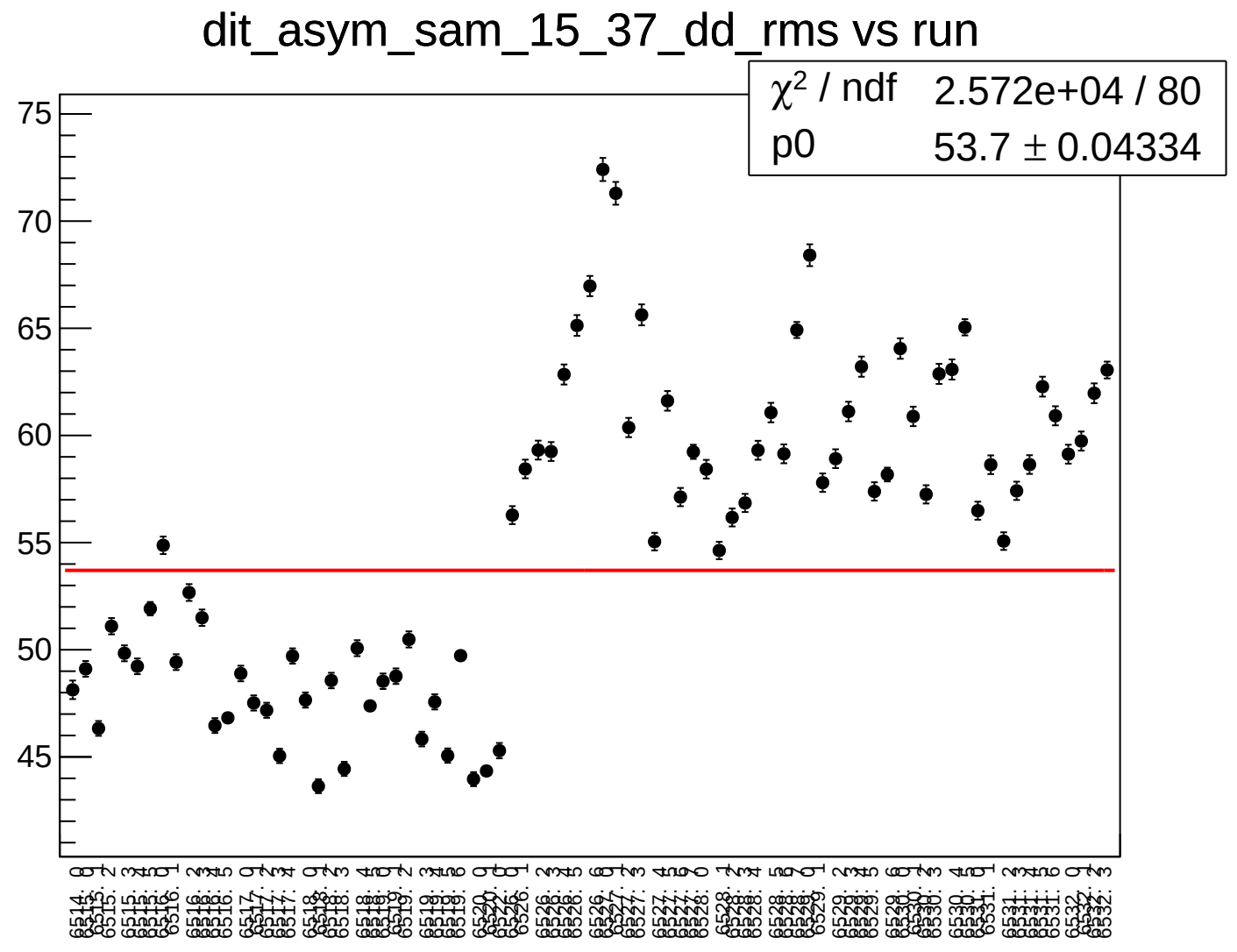

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 73.07 / 80
p0 −421.1 ± 438.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean −2298
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

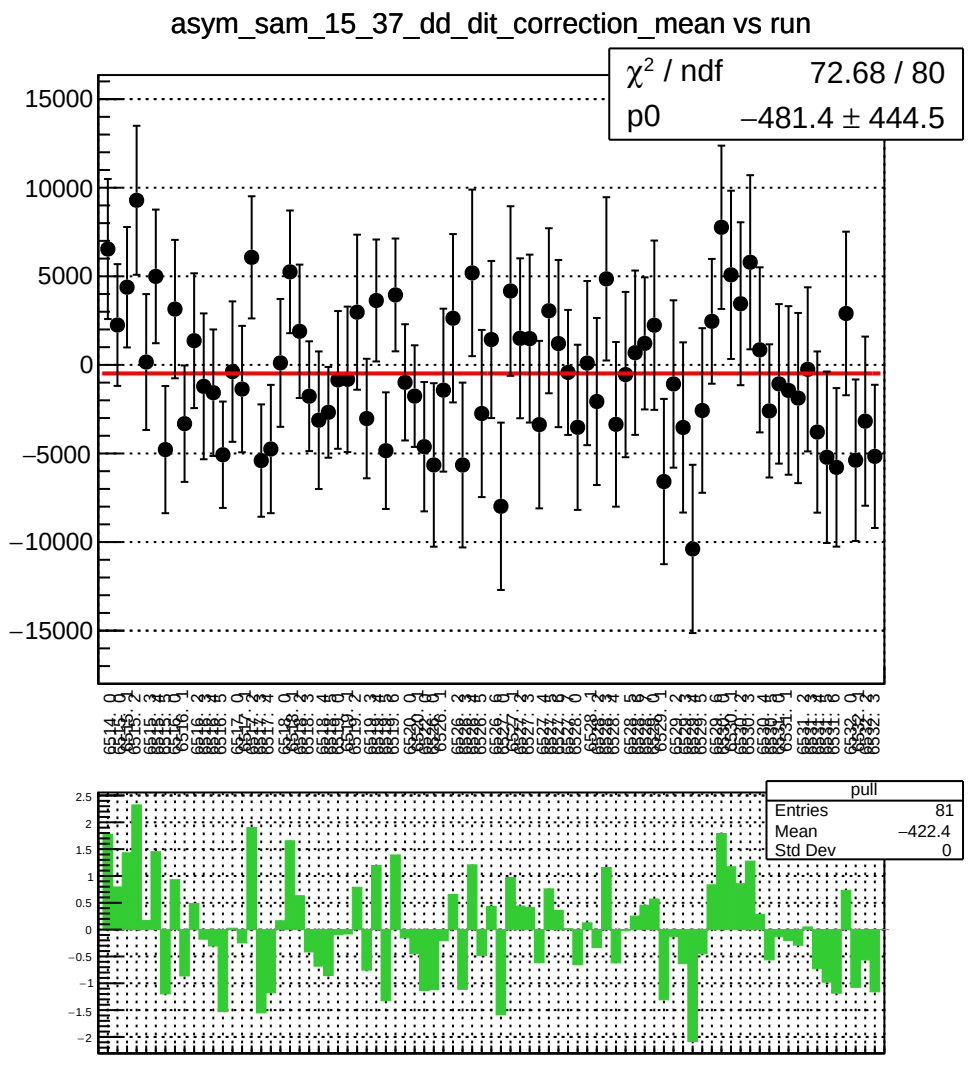

pull1D
Entries 81
Mean 0.001909
Std Dev 0.9498
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

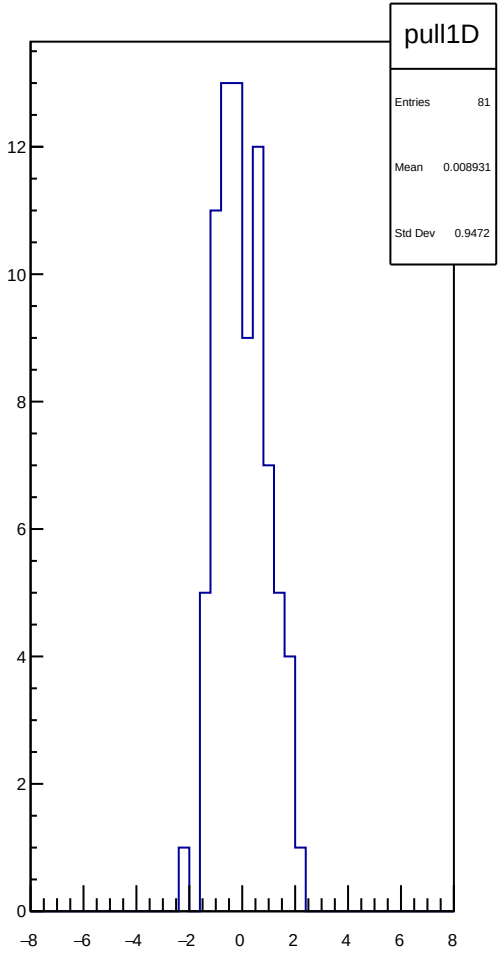

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 4.798e+04 / 80
p0 381.4 ± 0.3101
500
450
400
350
300

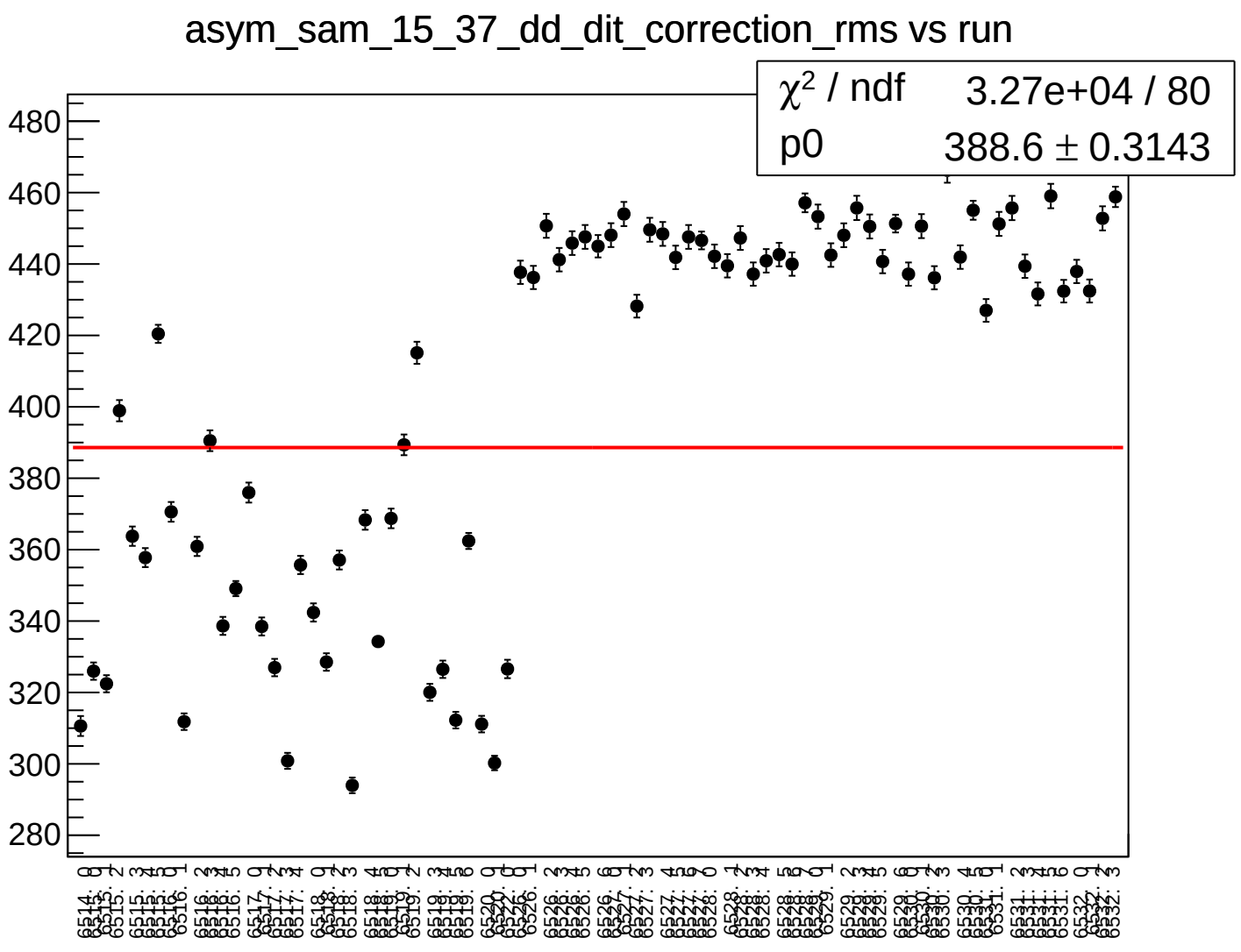

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 71.75 / 80
p0 −10.06 ± 61.3
pull
Entries 81
Mean 360.6
Std Dev 0

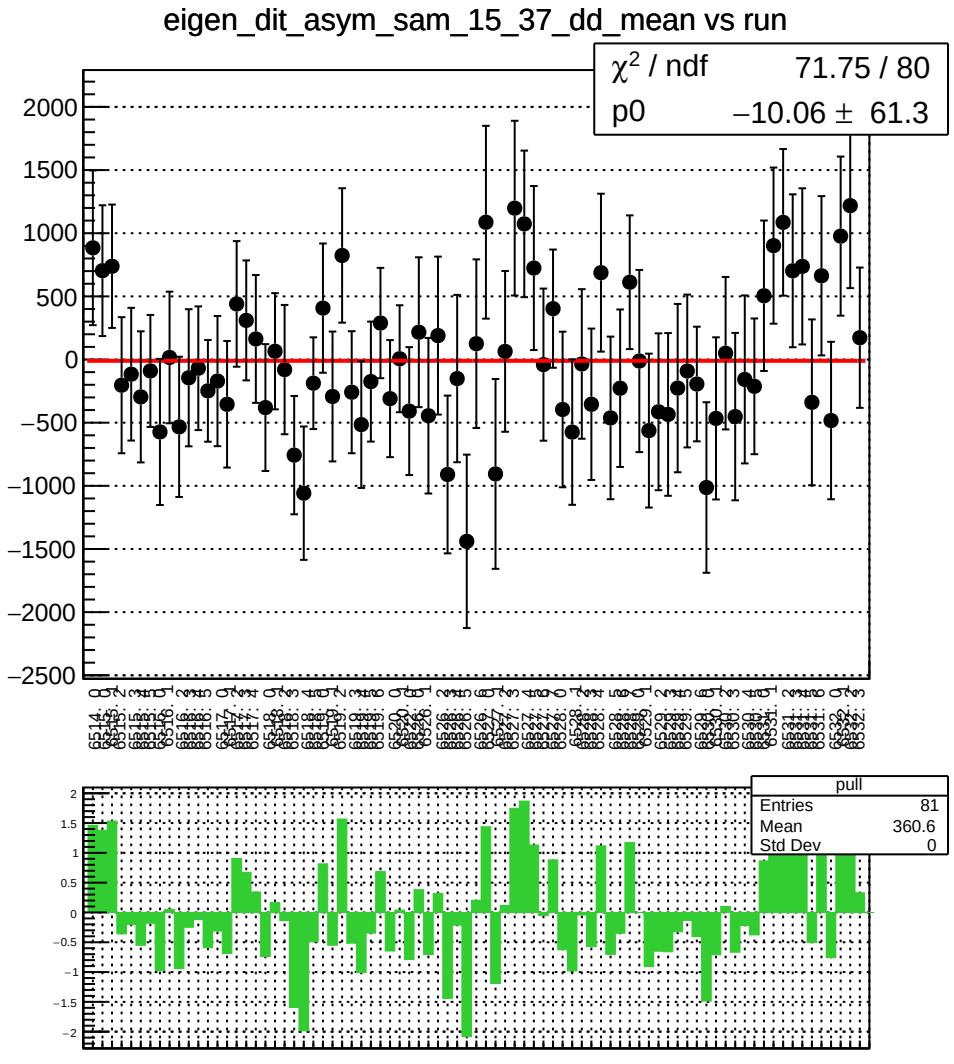

pull1D
Entries 81
Mean 0.01033
Std Dev 0.9411

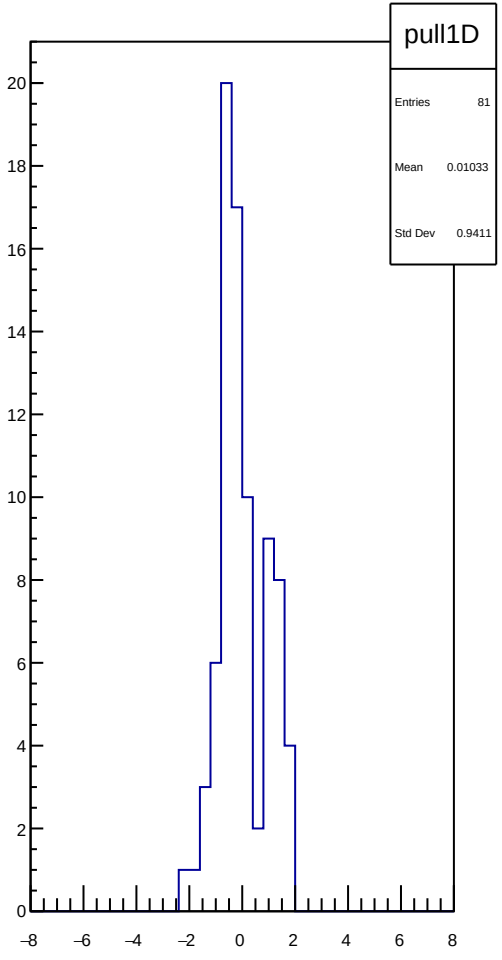

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.572e+04 / 80
p0 53.7 ± 0.04334
75
70
65
60
55
50
45

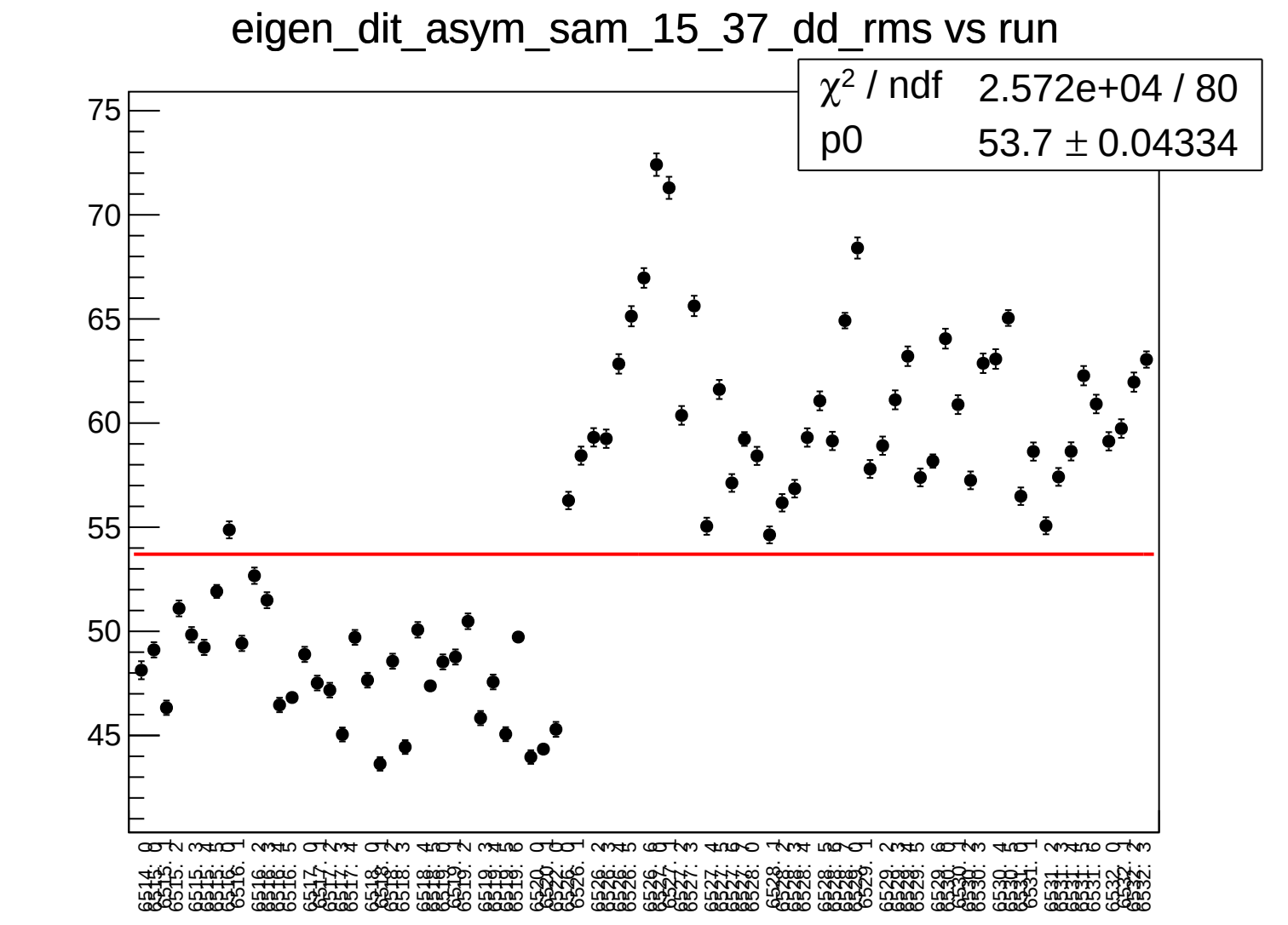

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 72.68 / 80
p0 −481.4 ± 444.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean −422.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

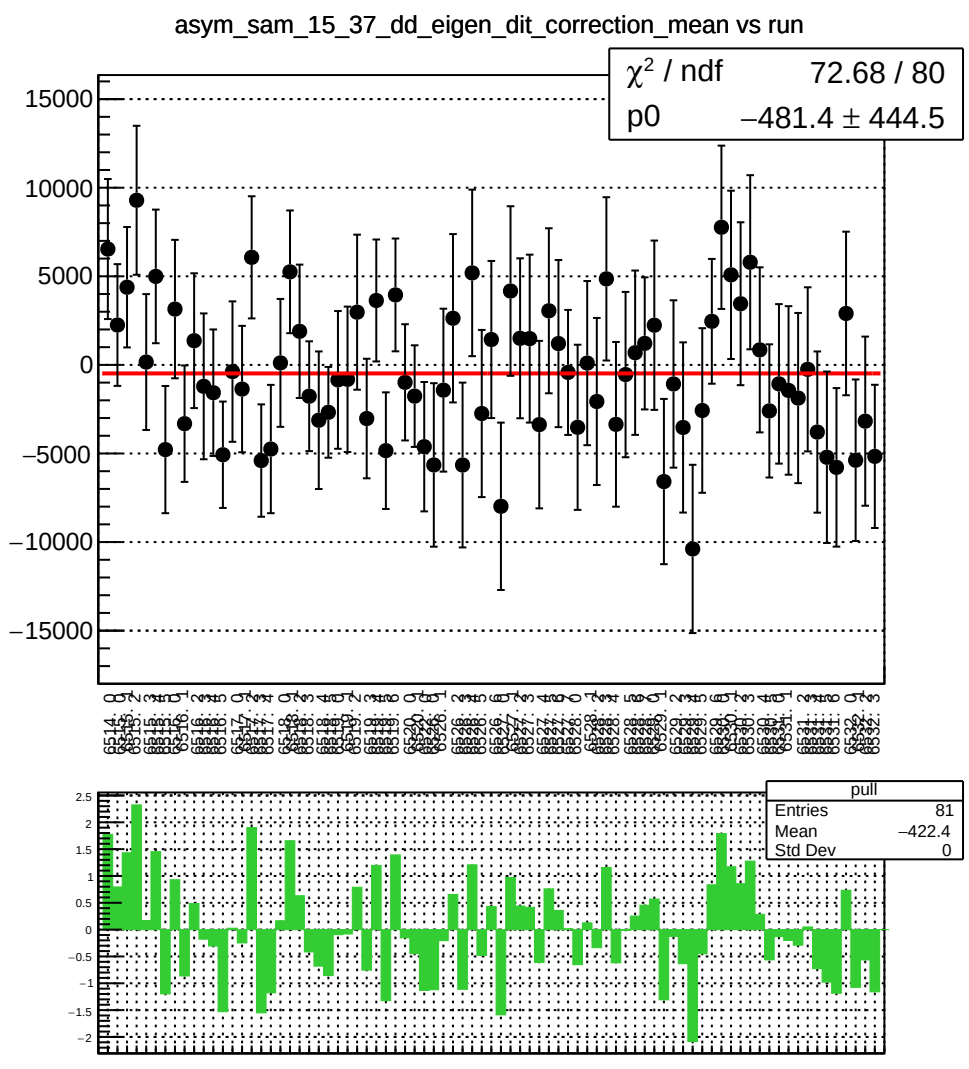

pull1D
Entries 81
Mean 0.008931
Std Dev 0.9472
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

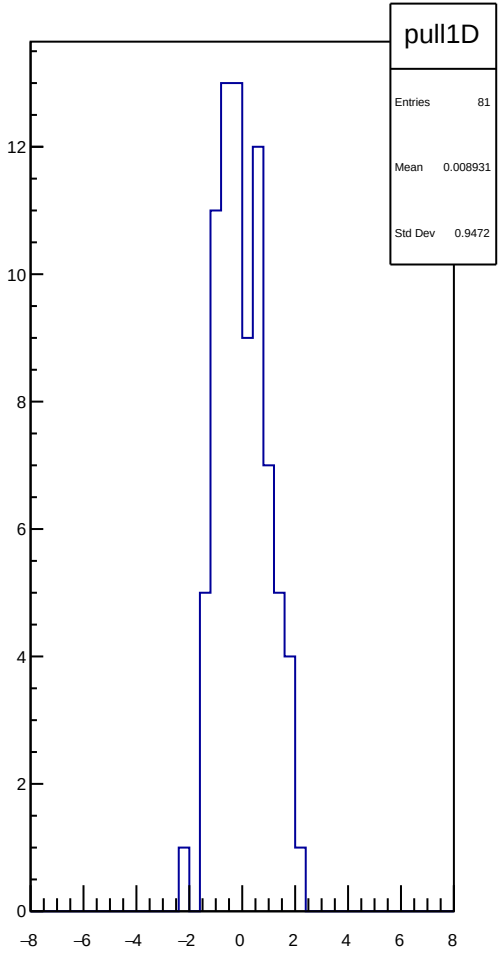

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 3.27e+04 / 80
p0 388.6 ± 0.3143
480
460
440
420
400
380
360
340
320
300
280

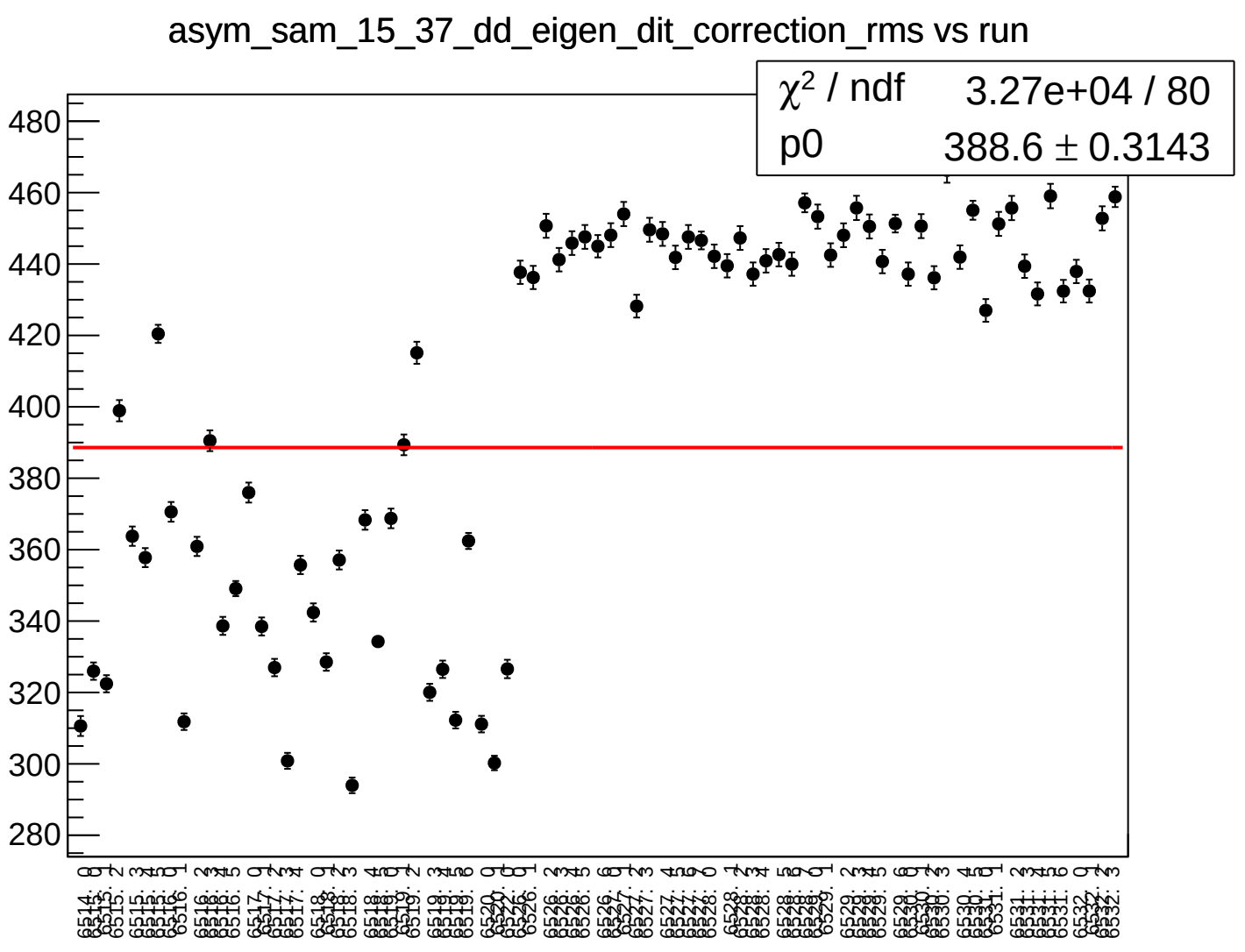

eigen_dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 71.75 / 80
p0 −10.06 ± 61.3
pull
Entries 81
Mean 360.6
Std Dev 0

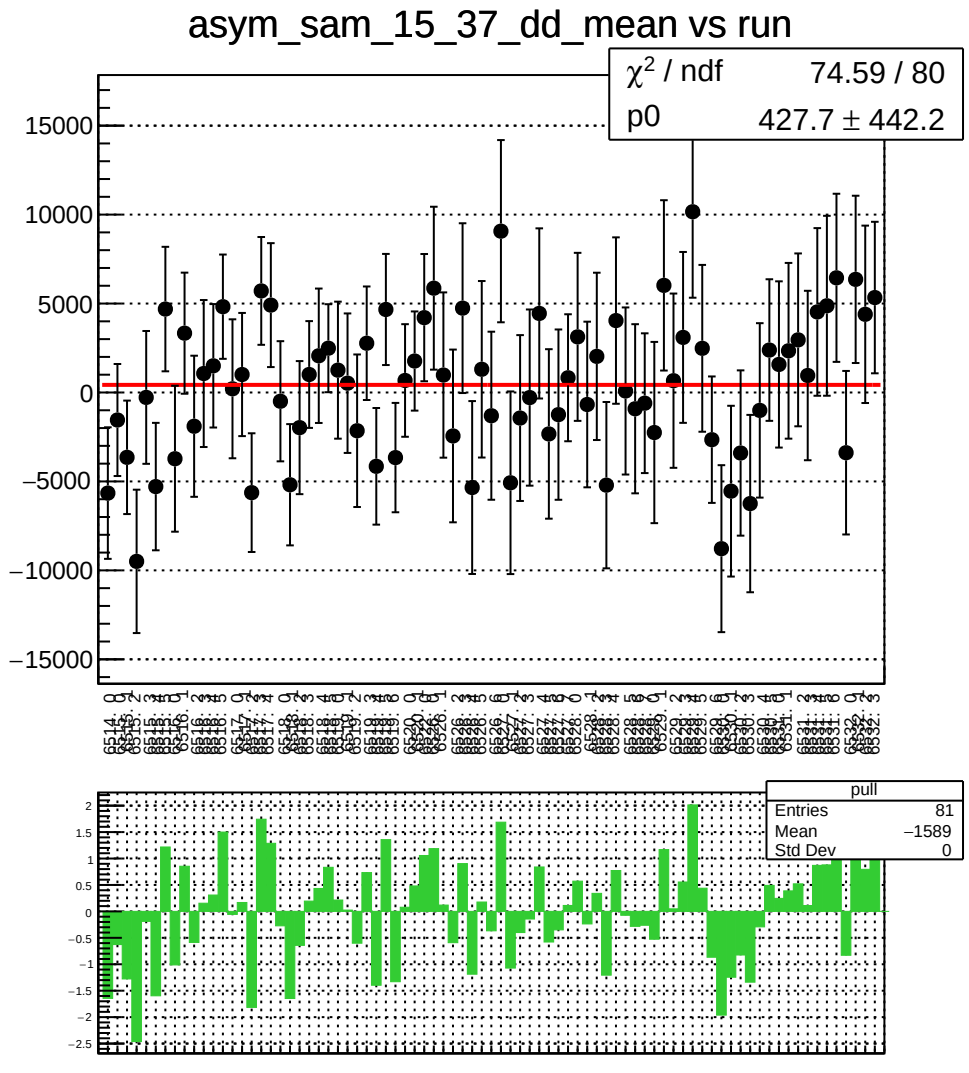

pull1D
Entries 81
Mean 0.01033
Std Dev 0.9411

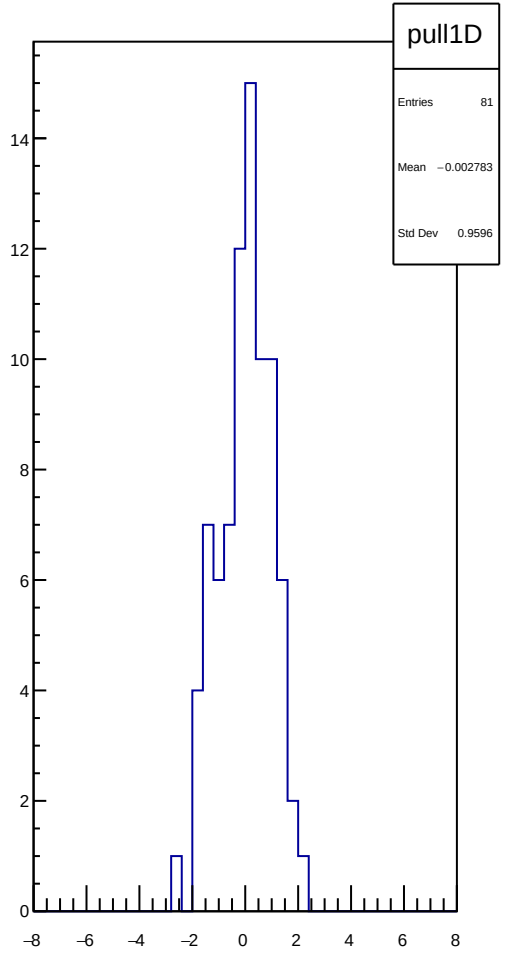

eigen_dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.572e+04 / 80
p0 53.7 ± 0.04334
75
70
65
60
55
50
45

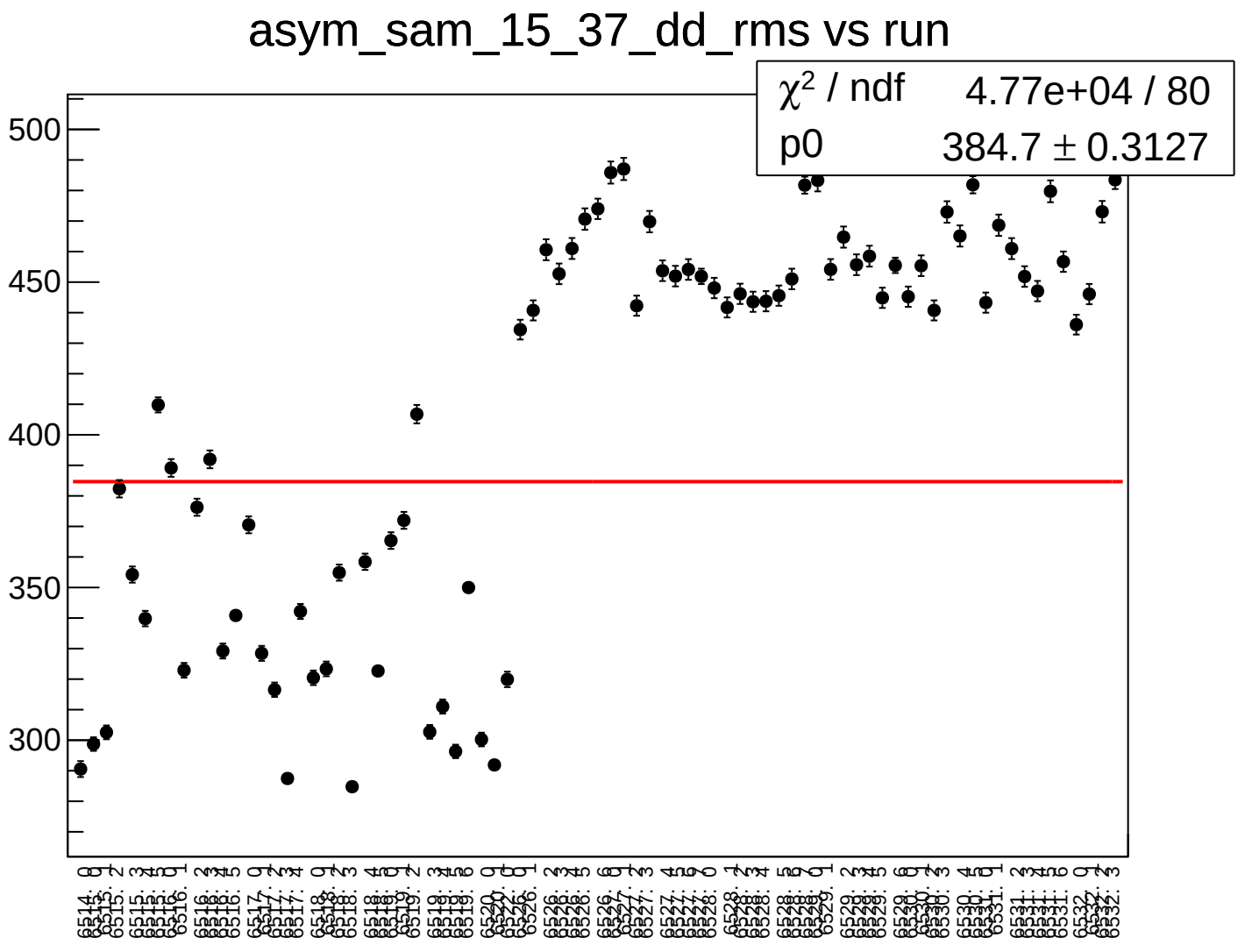

asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 72.68 / 80
p0 −481.4 ± 444.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean −422.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

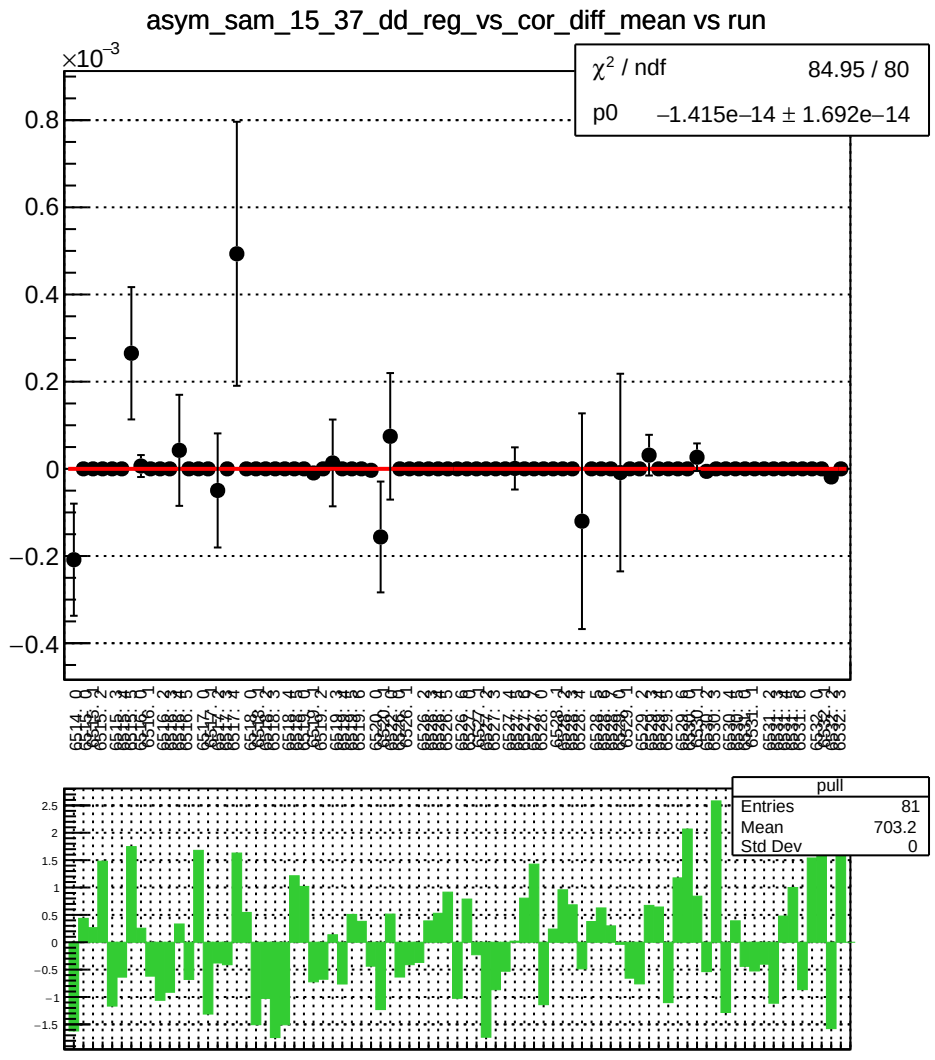

pull1D
Entries 81
Mean 0.008931
Std Dev 0.9472
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

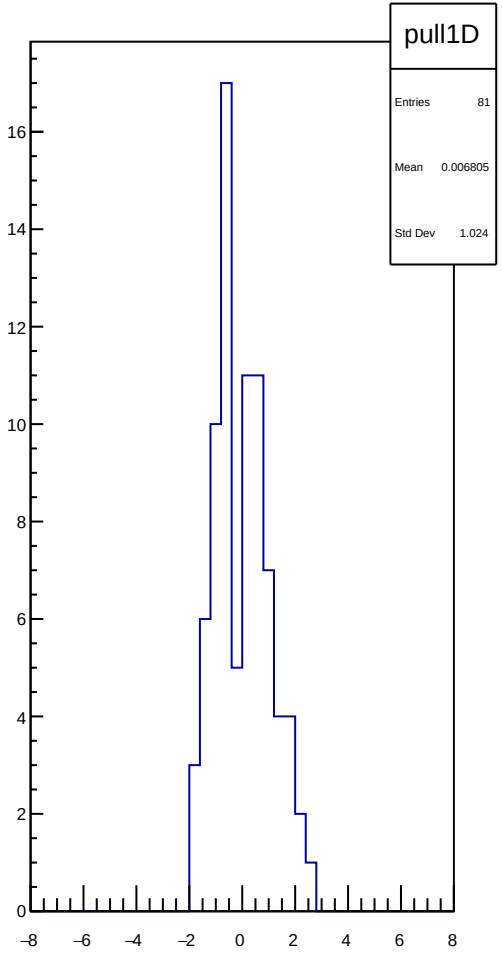

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.27e+04 / 80
p0 388.6 ± 0.3143
480
460
440
420
400
380
360
340
320
300
280

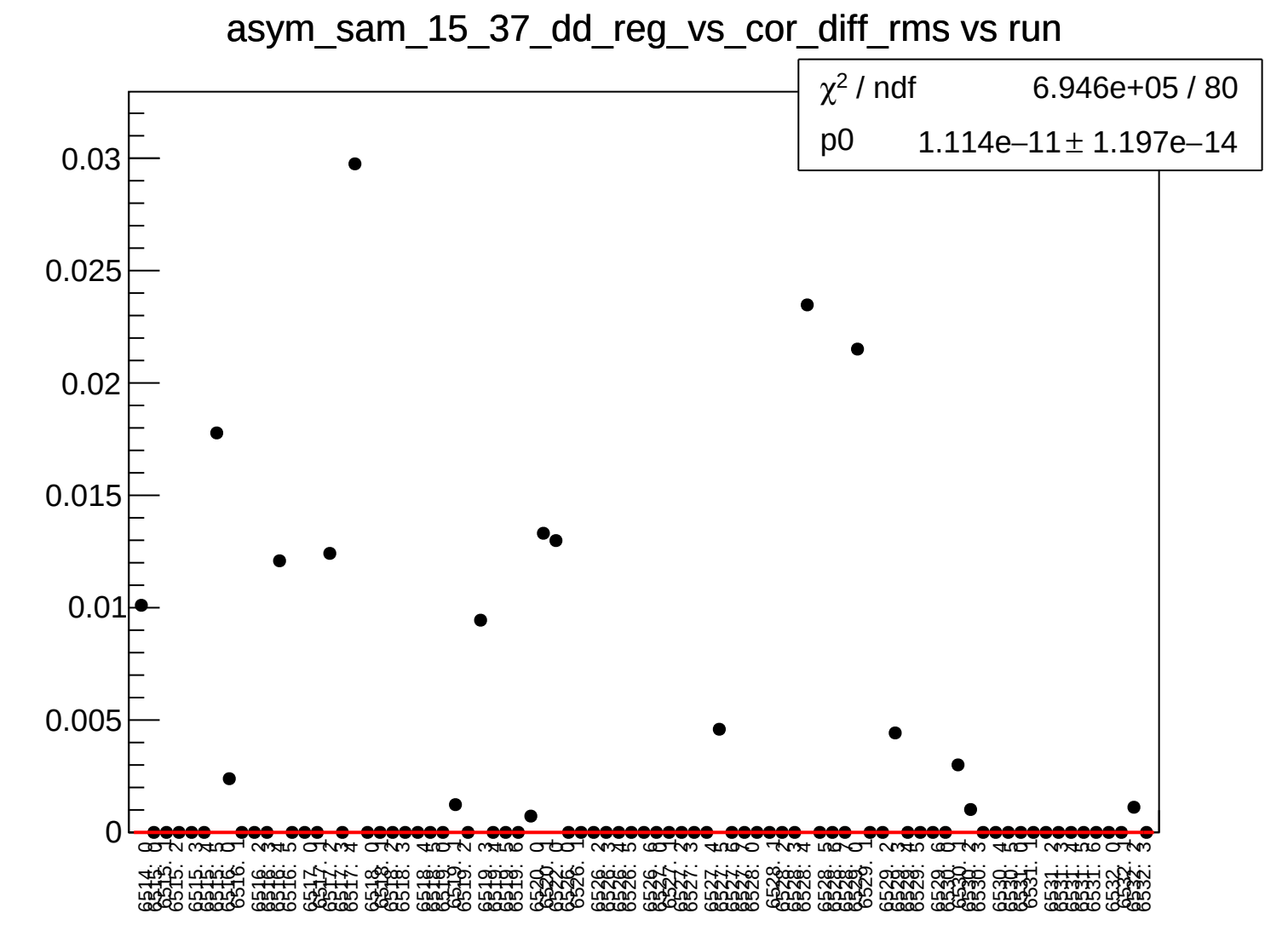

asym_sam_15_37_dd_mean vs run
χ² / ndf 74.59 / 80
p0 427.7 ± 442.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean −1589
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

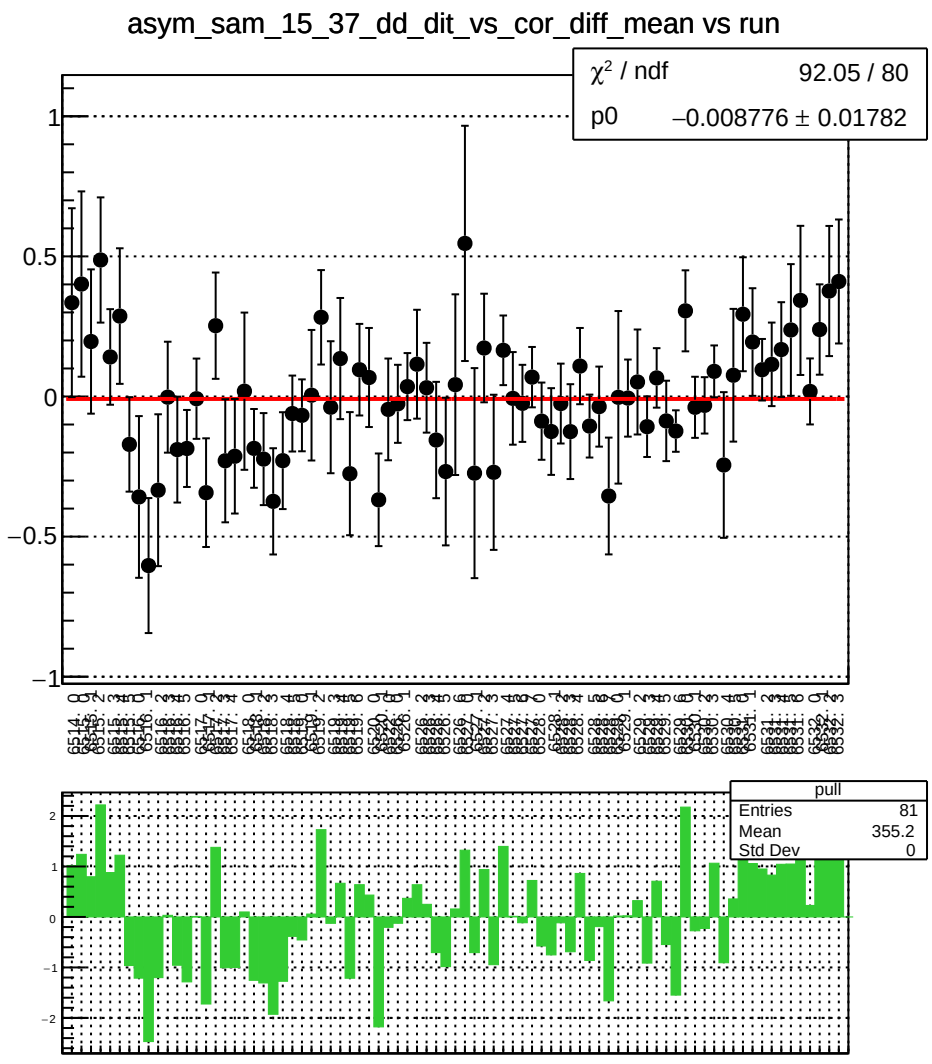

pull1D
Entries 81
Mean −0.002783
Std Dev 0.9596
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

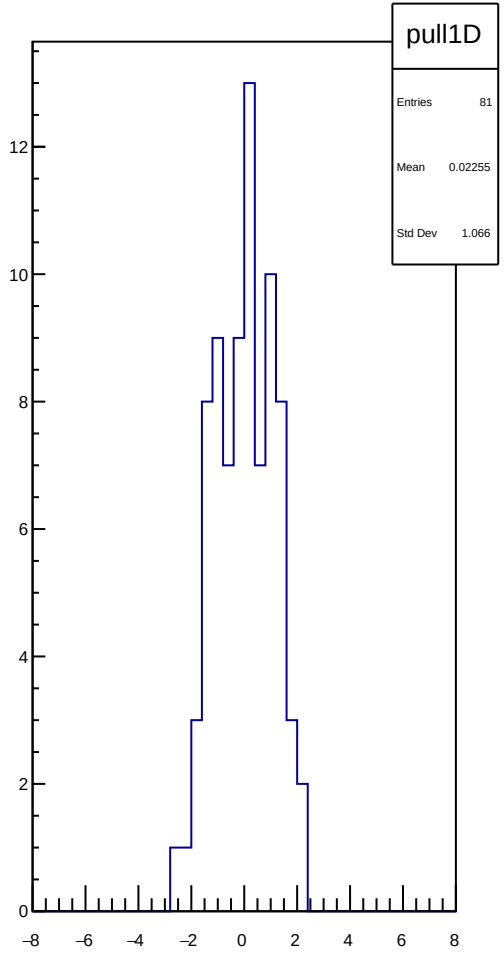

asym_sam_15_37_dd_rms vs run
χ² / ndf 4.77e+04 / 80
p0 384.7 ± 0.3127
500
450
400
350
300

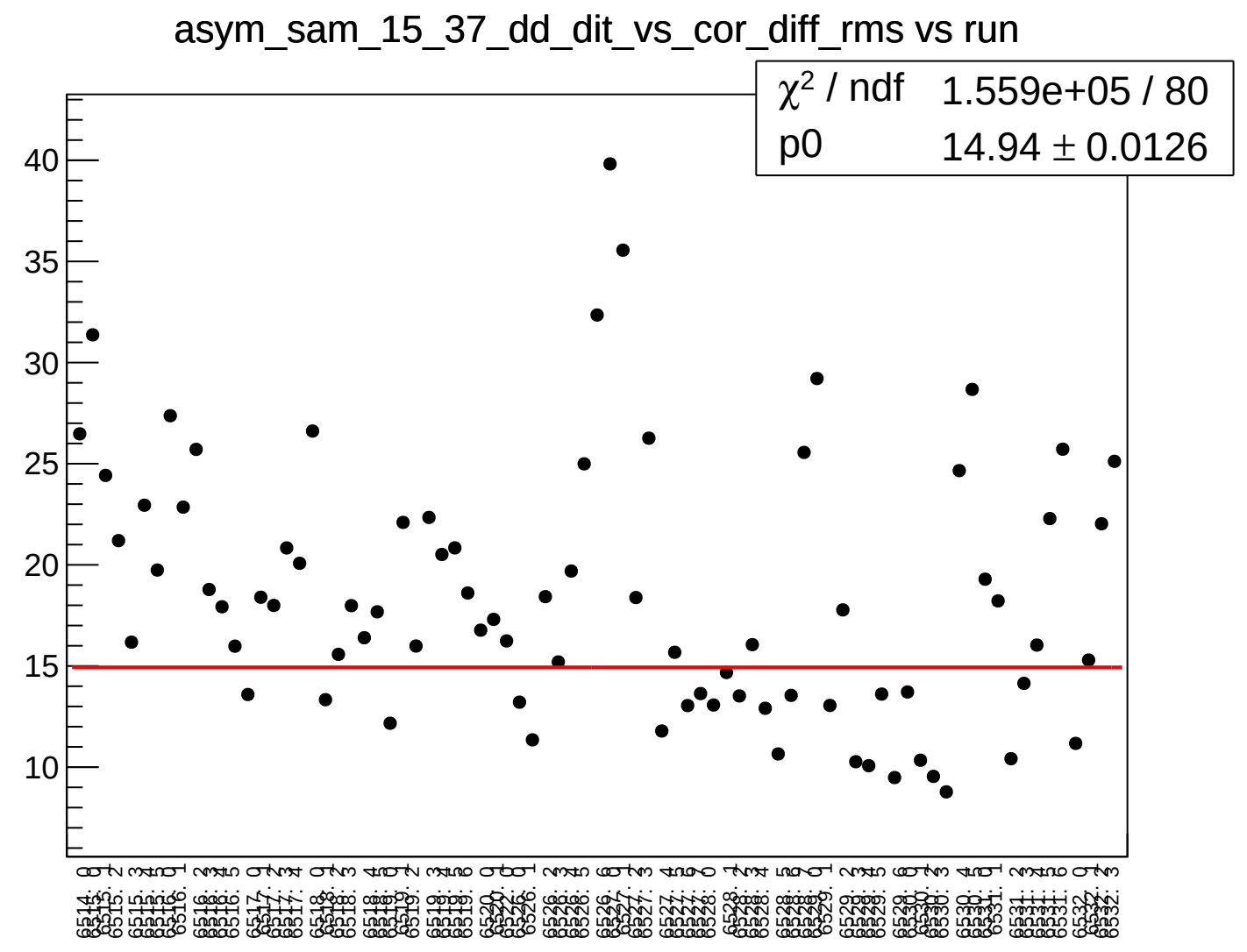

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 84.95 / 80
p0 −1.415e−14 ± 1.692e−14
pull
Entries 81
Mean 703.2
Std Dev 0

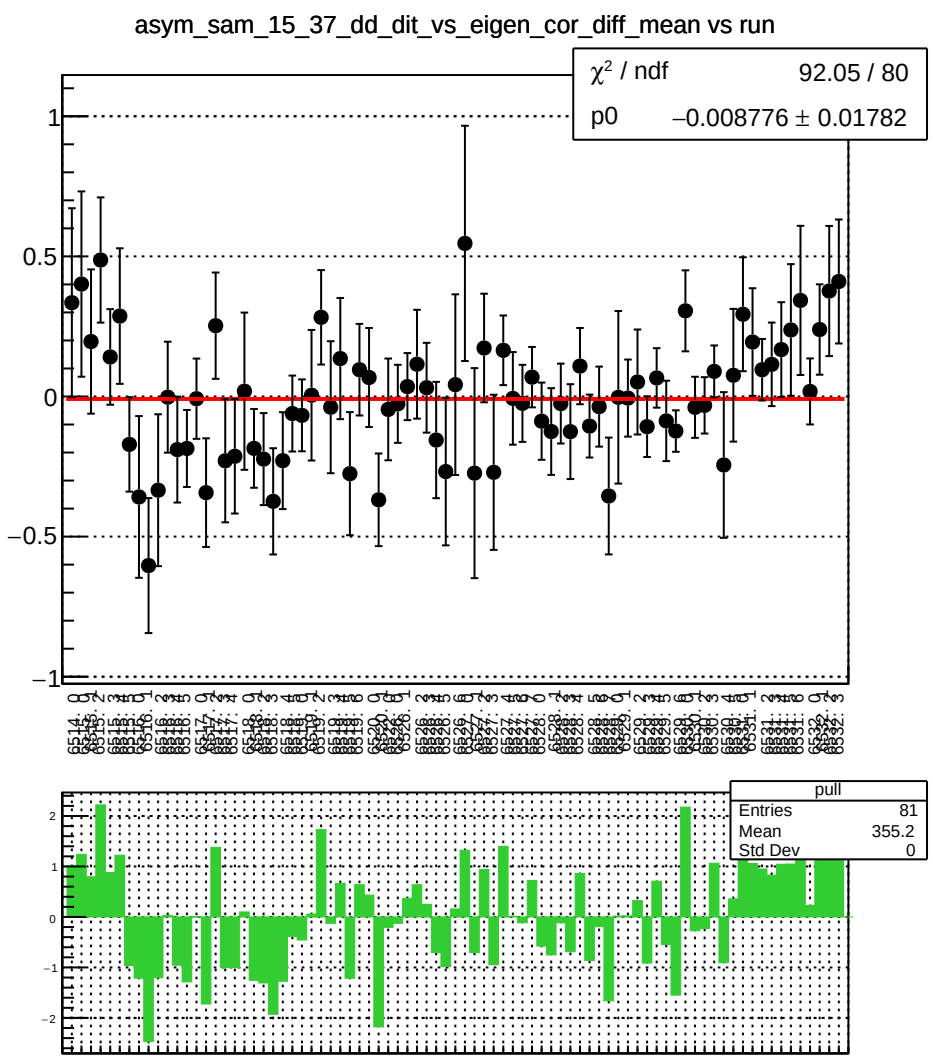

pull1D
Entries 81
Mean 0.006805
Std Dev 1.024

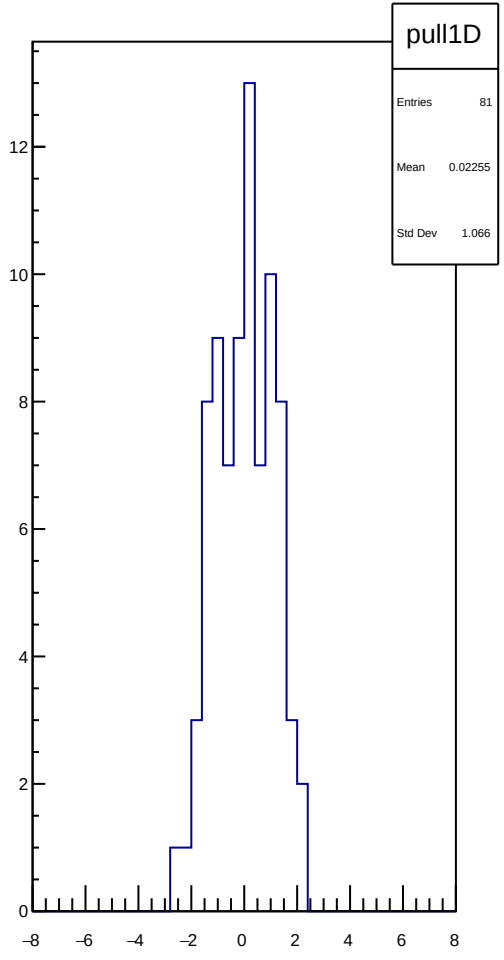

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 6.946e+05 / 80
p0 1.114e−11 ± 1.197e−14
0.03
0.025
0.02
0.015
0.01
0.005
0

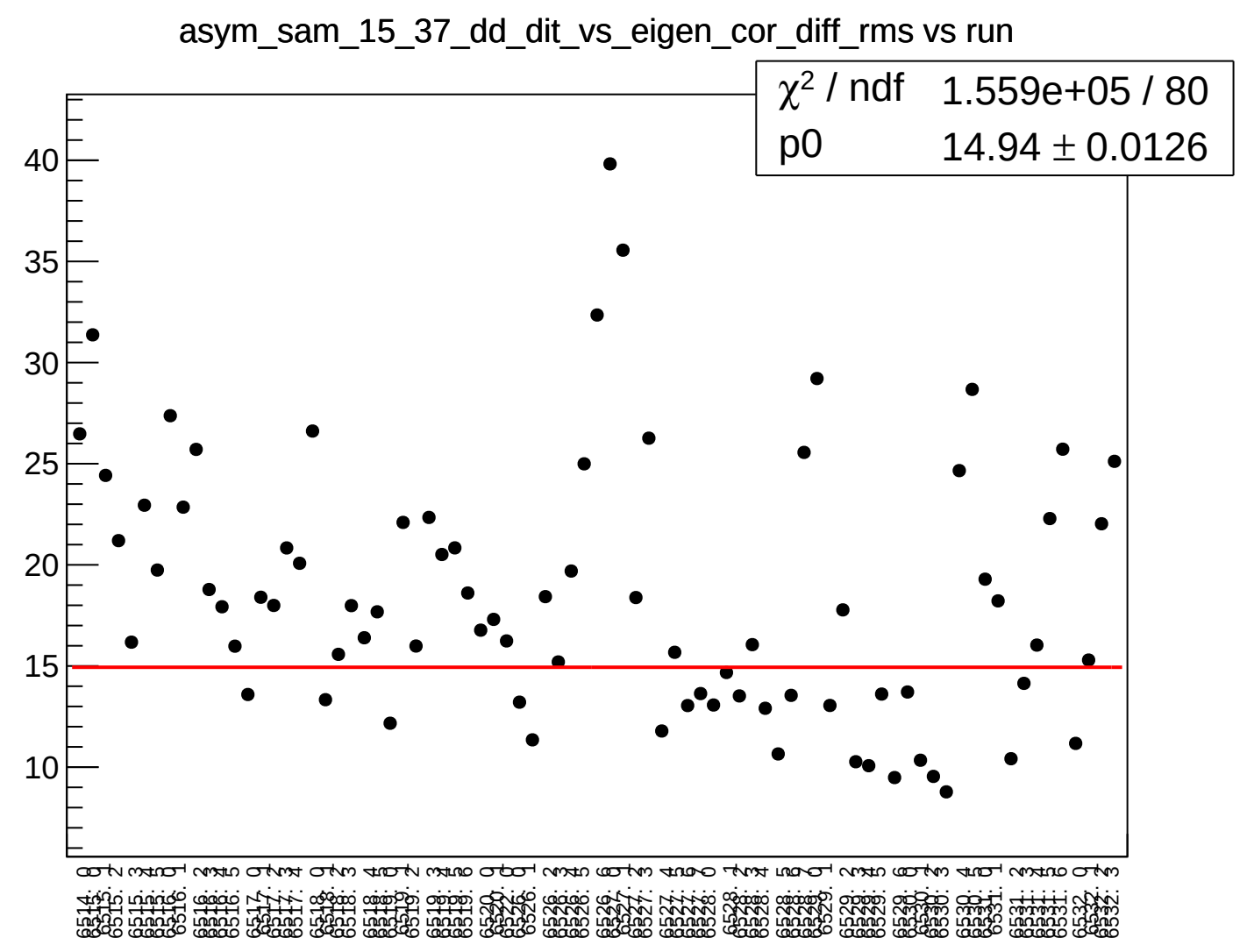

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 92.05 / 80
p0 −0.008776 ± 0.01782
pull
Entries 81
Mean 355.2
Std Dev 0

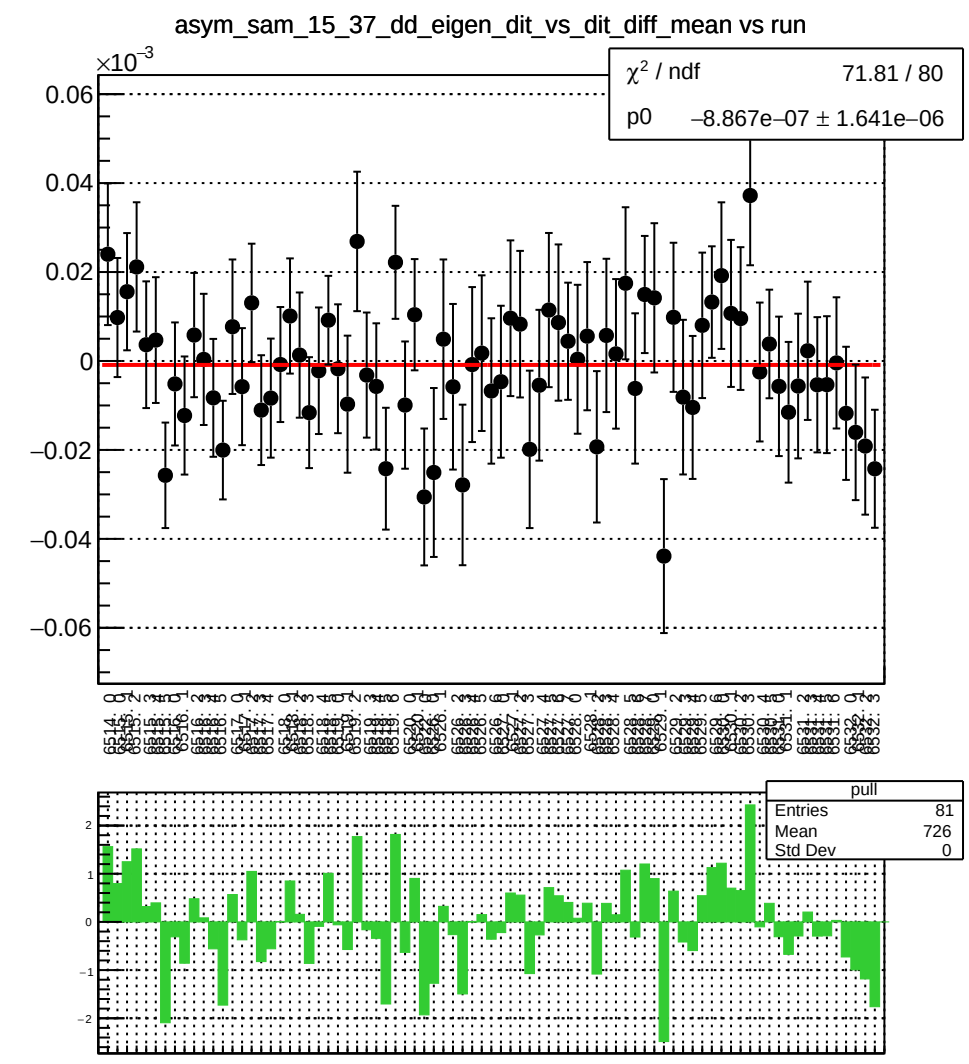

pull1D
Entries 81
Mean 0.02255
Std Dev 1.066

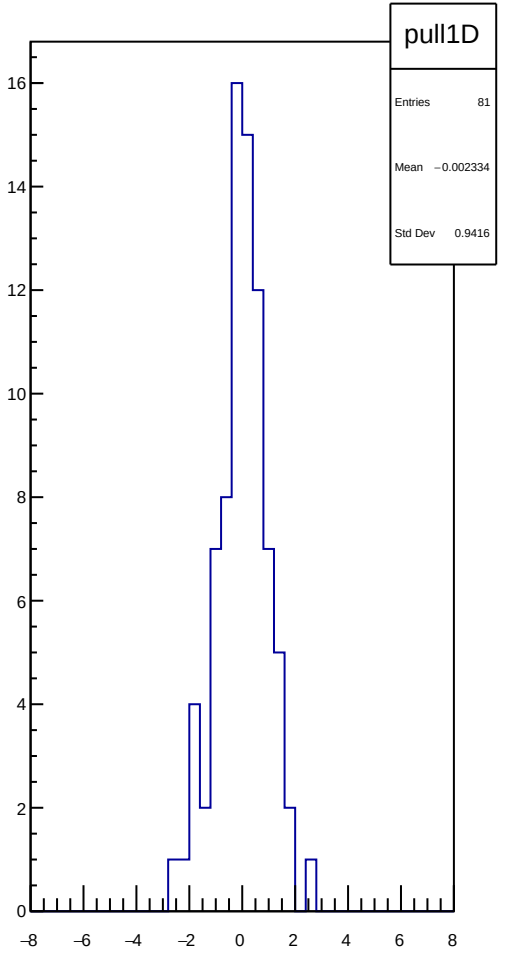

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.559e+05 / 80
p0 14.94 ± 0.0126
40
35
30
25
20
15
10

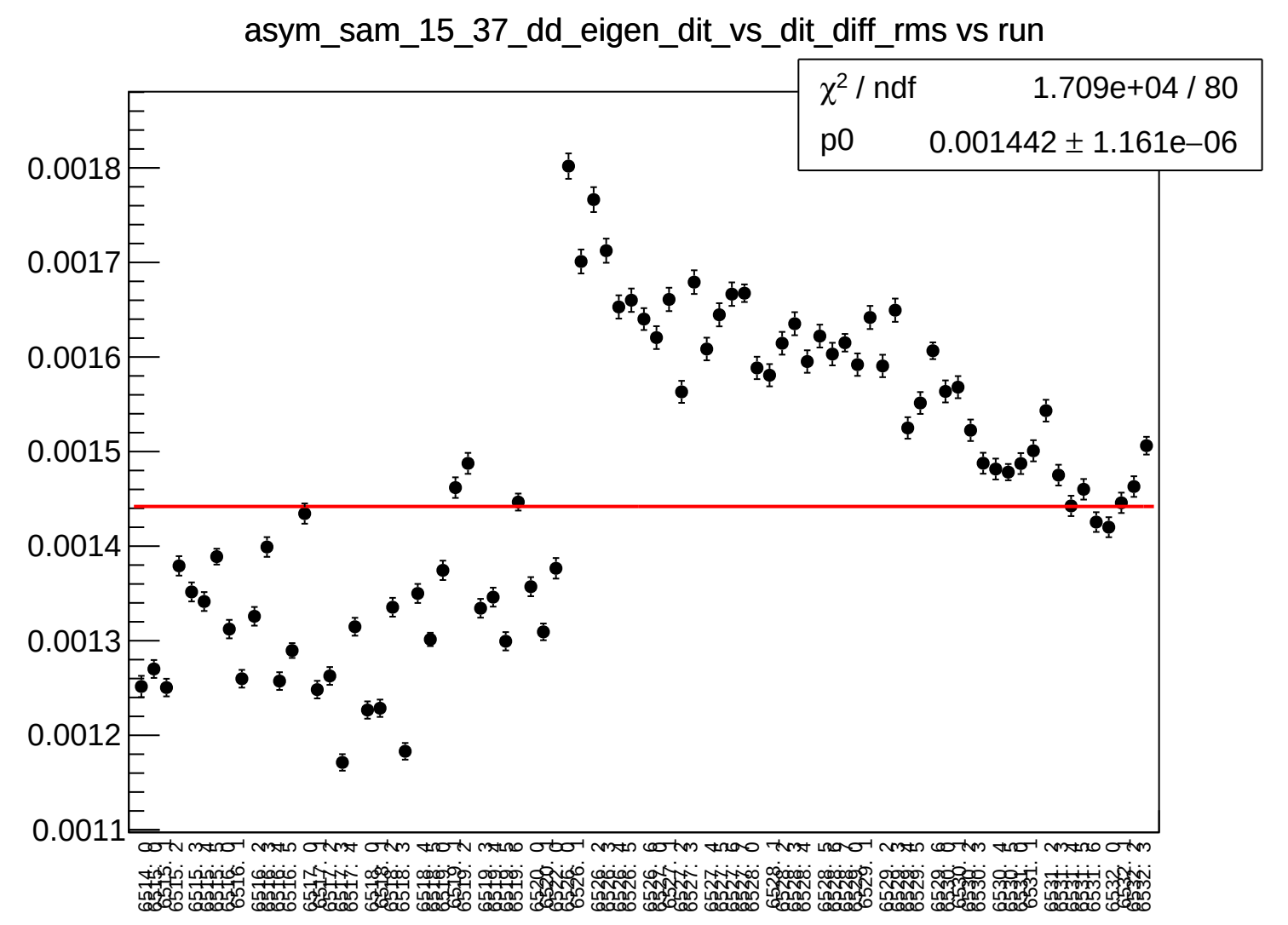

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.05 / 80
p0 −0.008776 ± 0.01782
pull
Entries 81
Mean 355.2
Std Dev 0

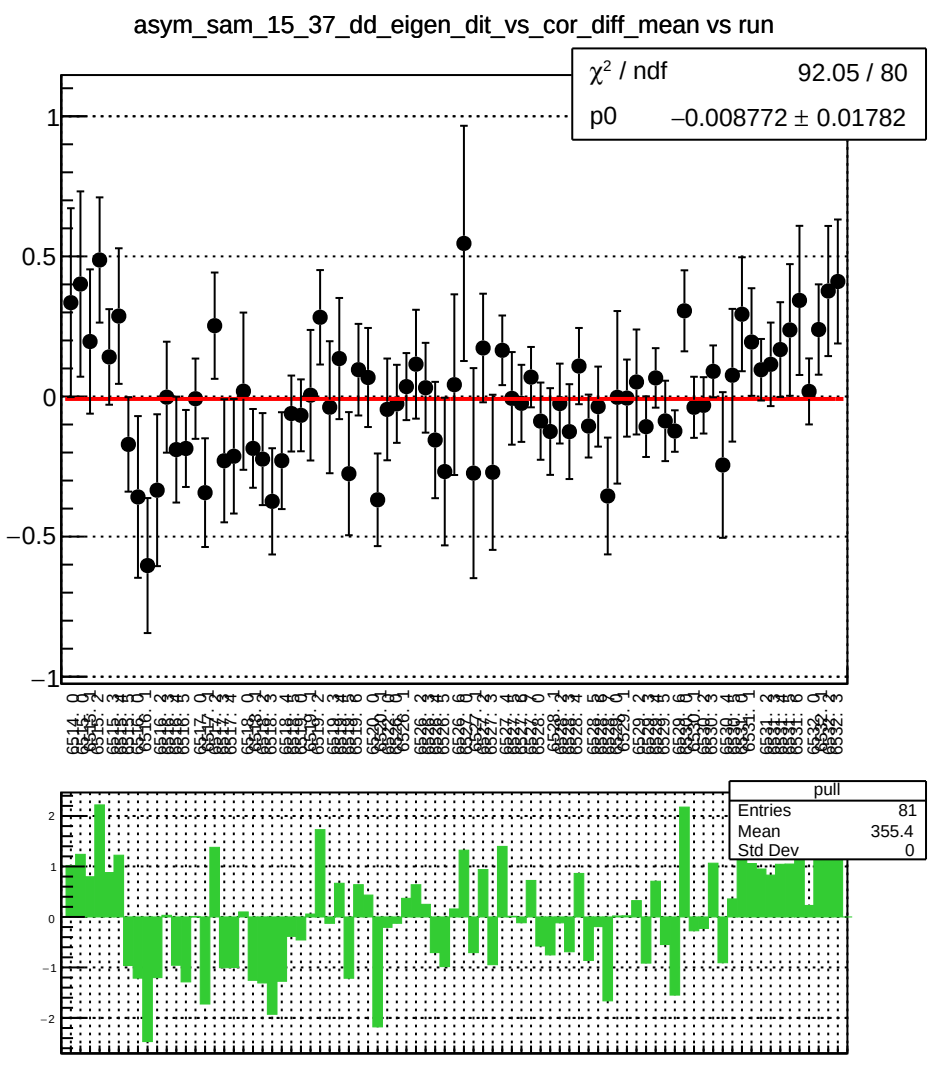

pull1D
Entries 81
Mean 0.02255
Std Dev 1.066

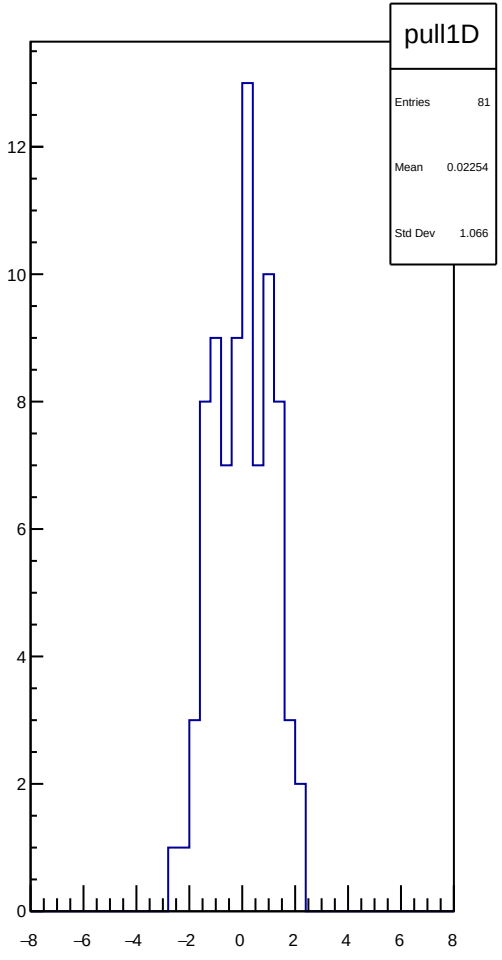

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.559e+05 / 80
p0 14.94 ± 0.0126
40
35
30
25
20
15
10

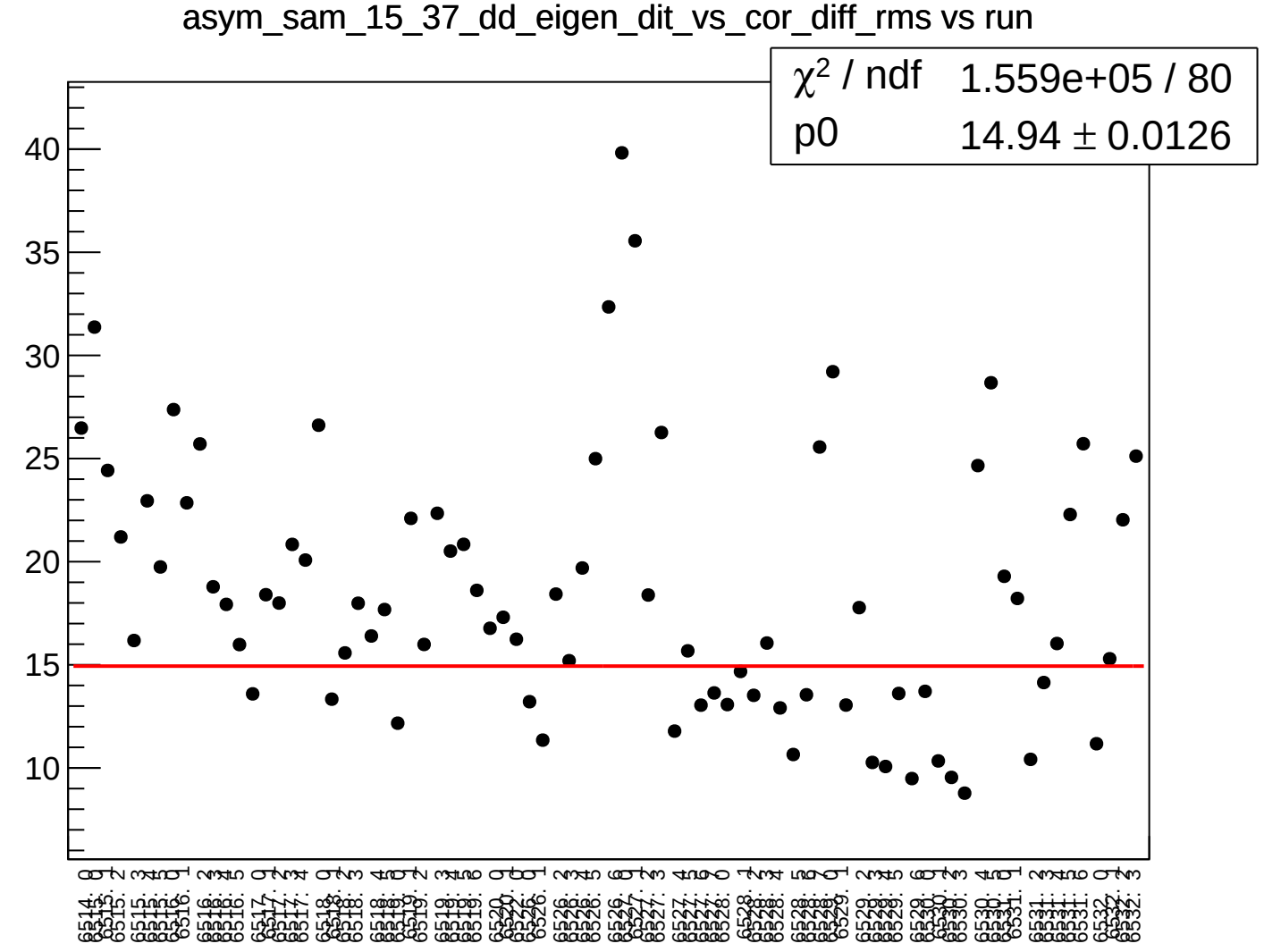

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 71.81 / 80
p0 −8.867e−07 ± 1.641e−06
pull
Entries 81
Mean 726
Std Dev 0


pull1D
Entries 81
Mean −0.002334
Std Dev 0.9416

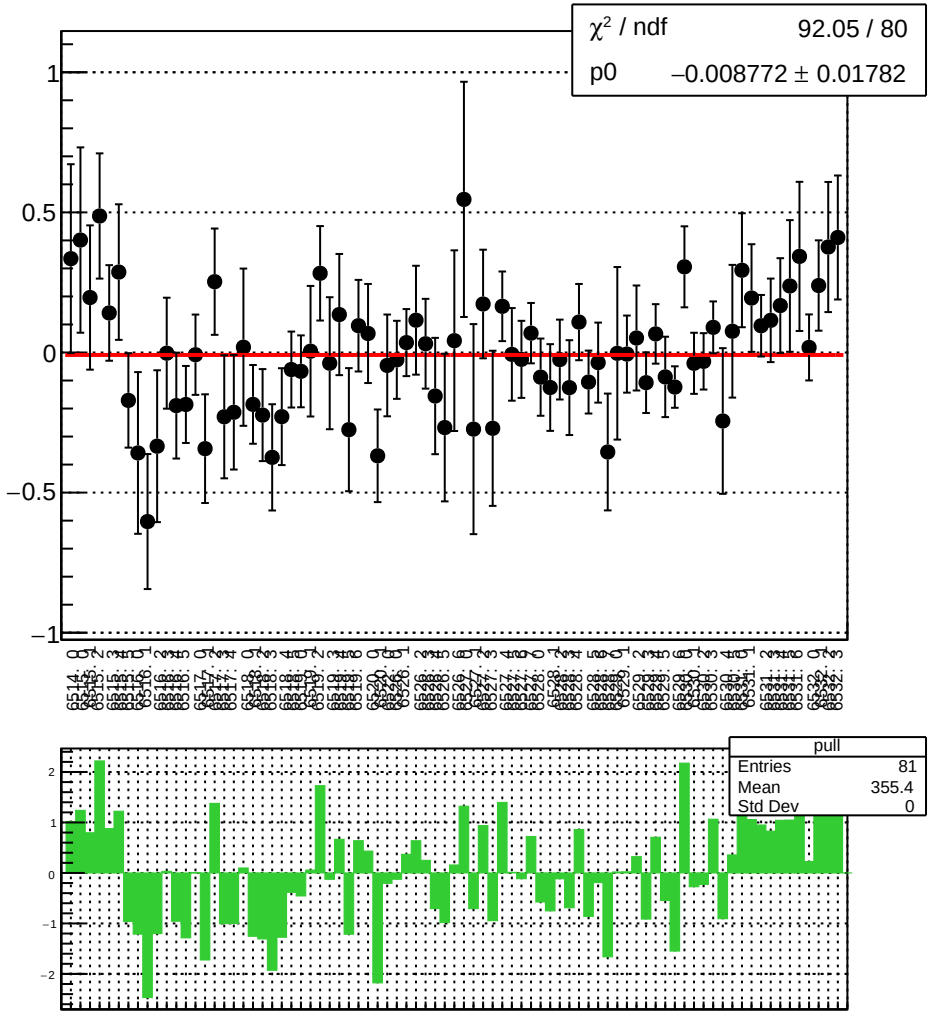

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.709e+04 / 80
p0 0.001442 ± 1.161e−06
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012
0.0011

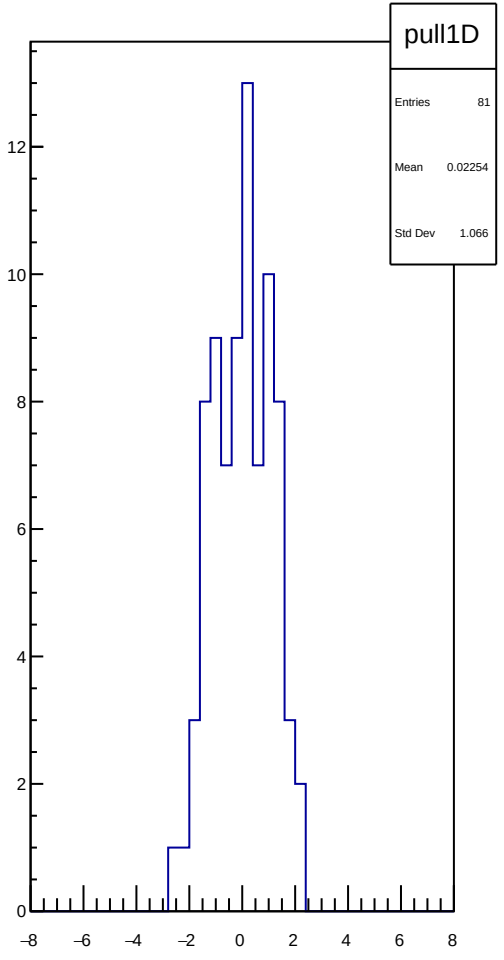

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.05 / 80
p0 −0.008772 ± 0.01782
pull
Entries 81
Mean 355.4
Std Dev 0

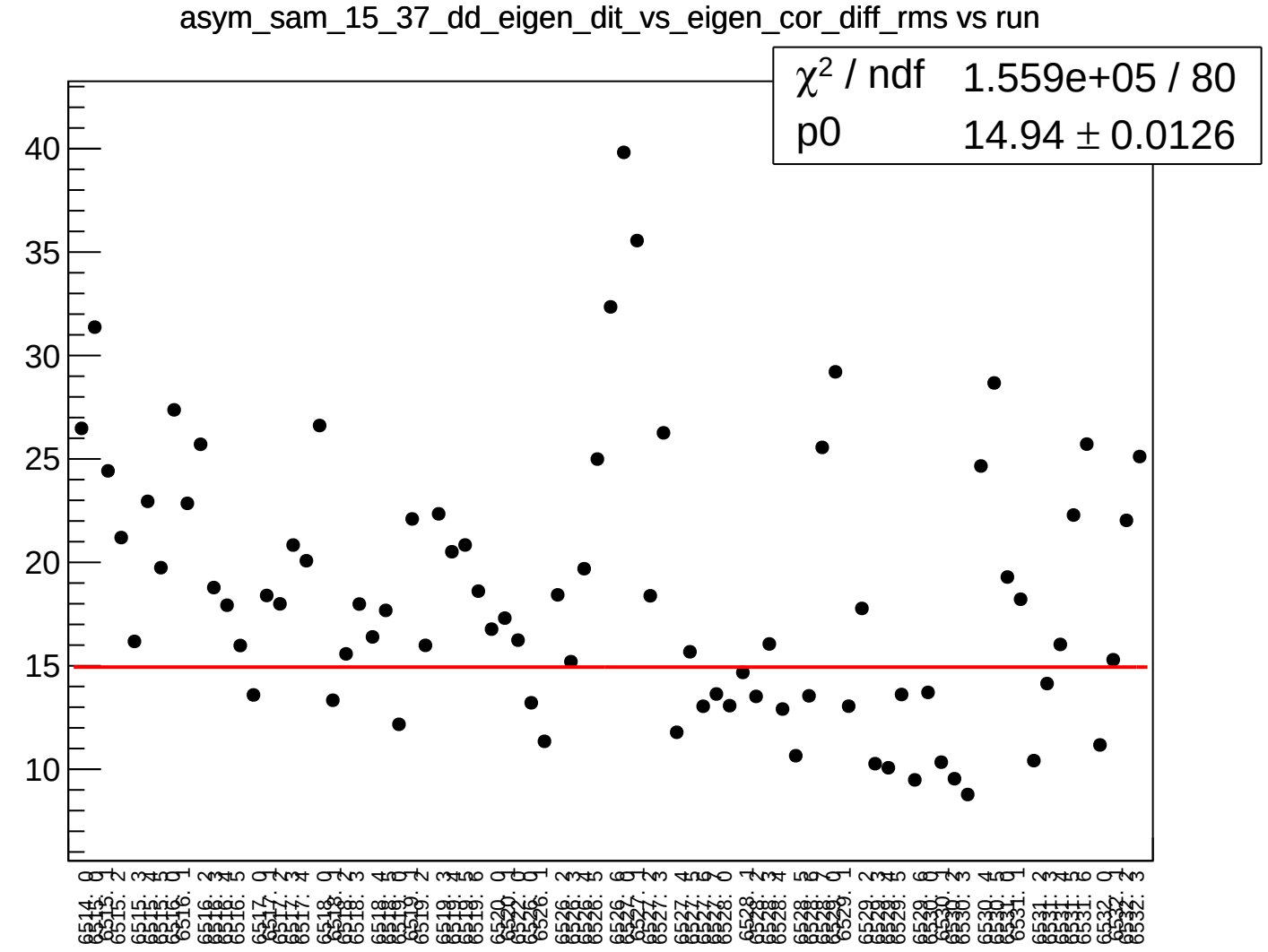

pull1D
Entries 81
Mean 0.02254
Std Dev 1.066

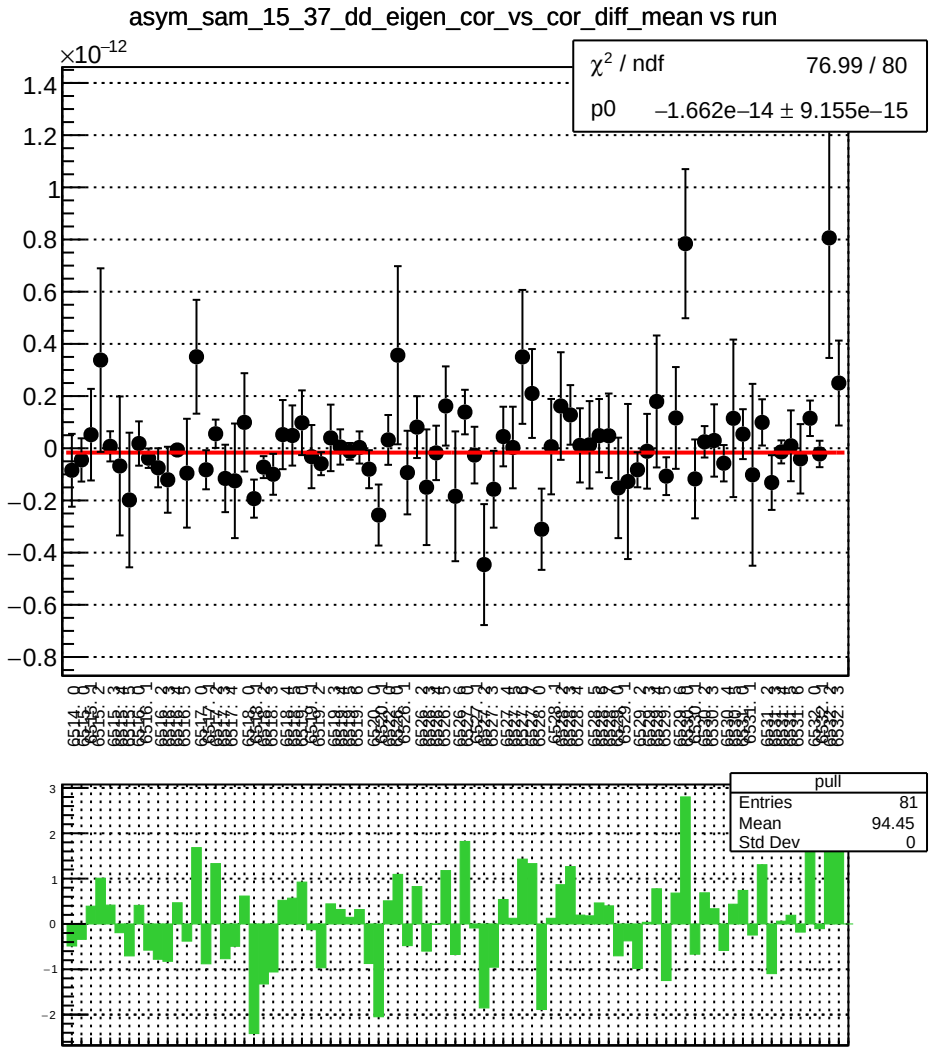

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.559e+05 / 80
p0 14.94 ± 0.0126
40
35
30
25
20
15
10

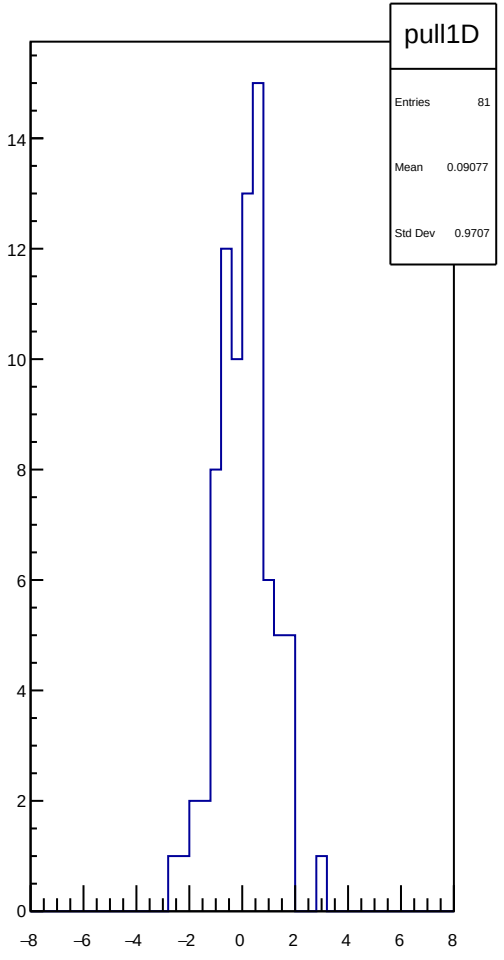
asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

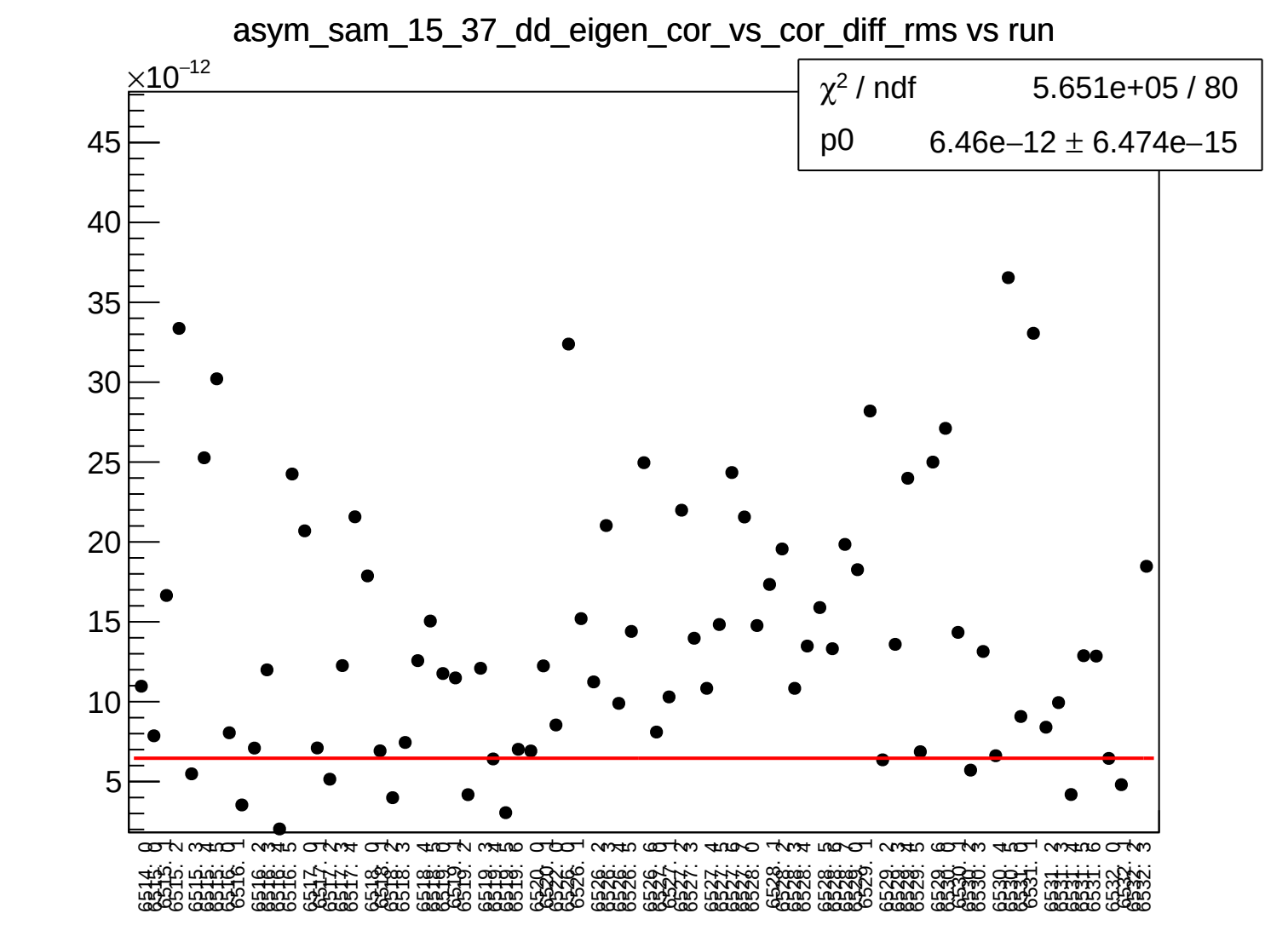


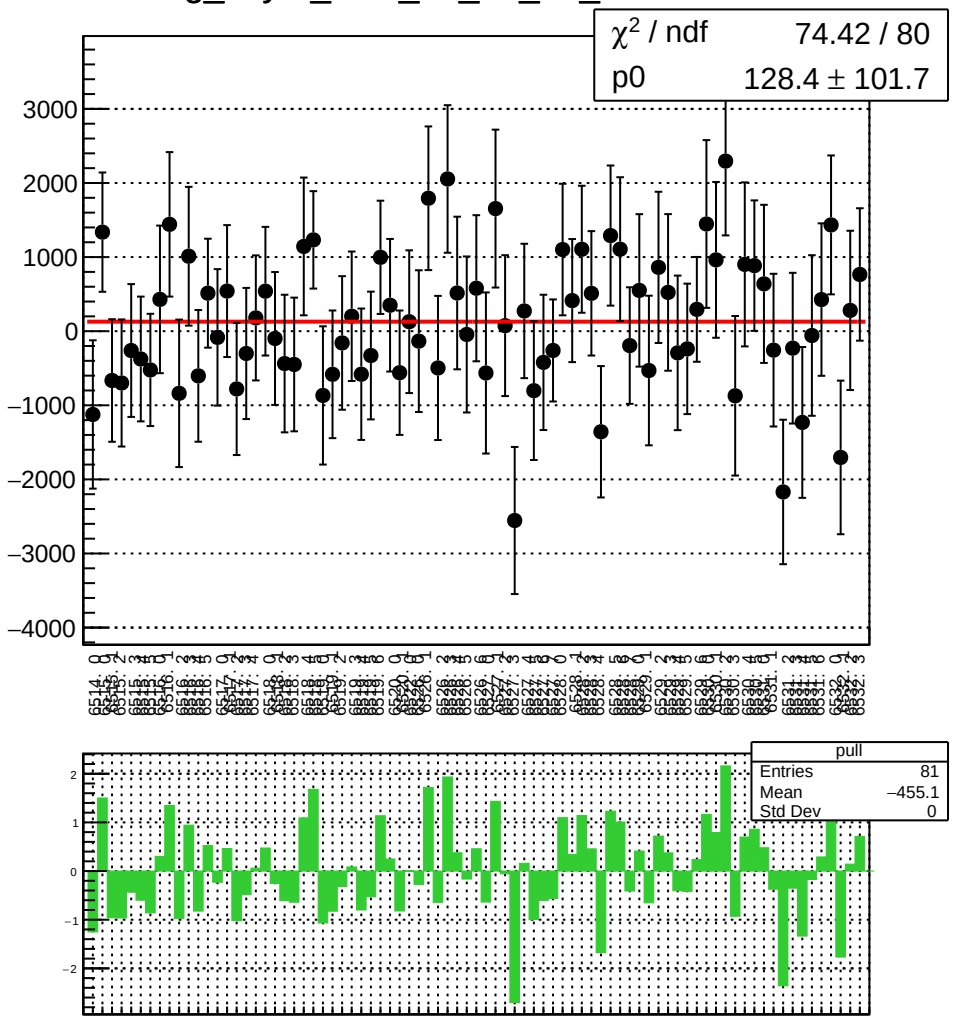


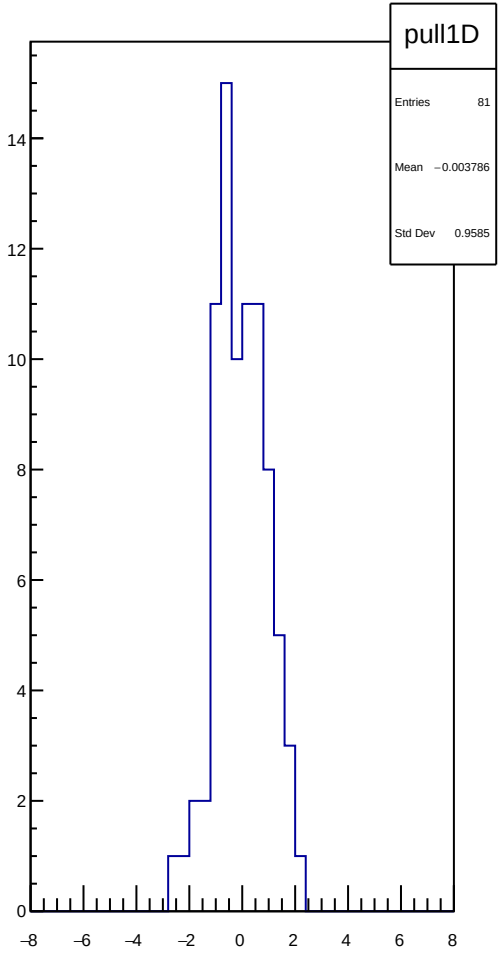

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.559e+05 / 80
p0 14.94 ± 0.0126
40
35
30
25
20
15
10

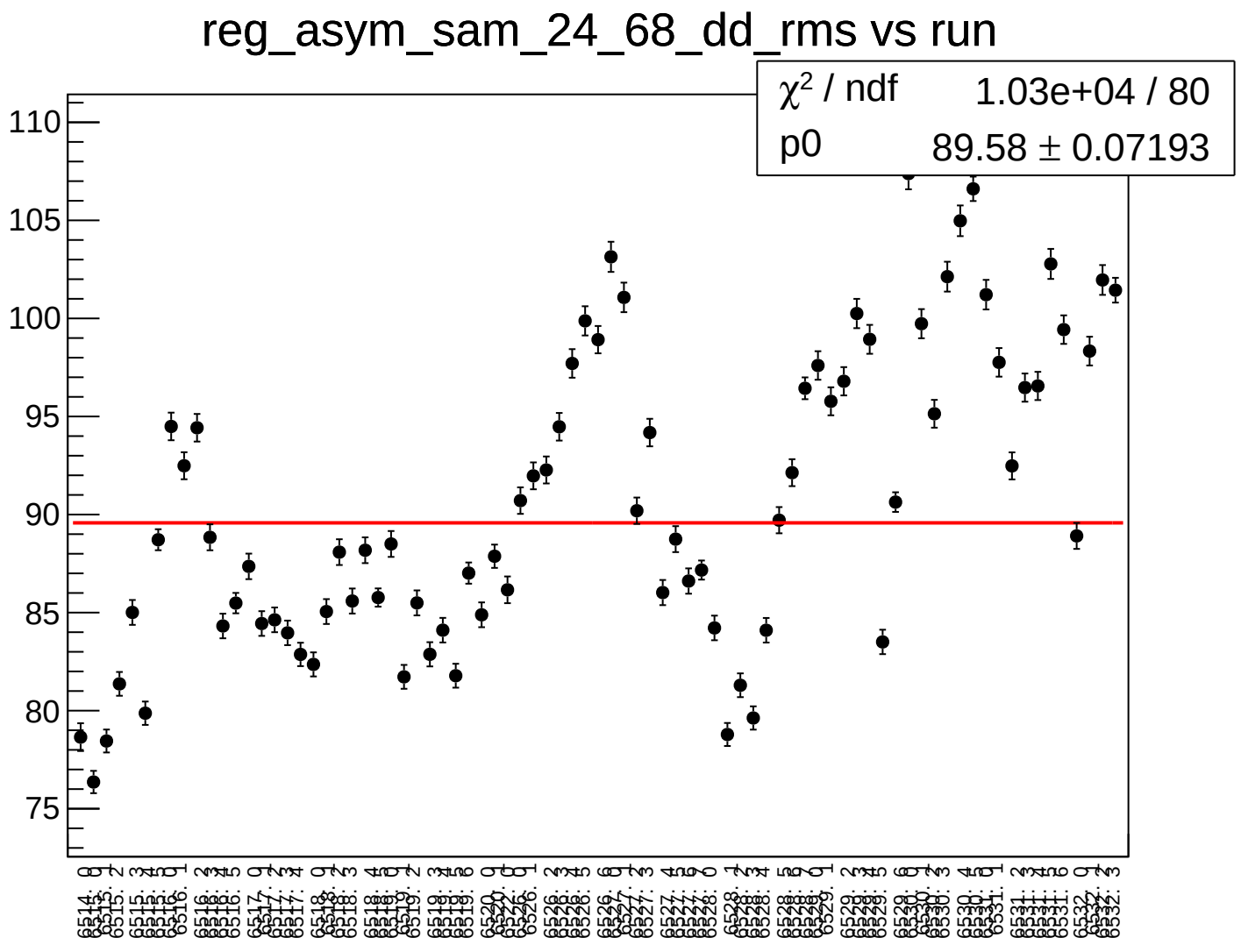

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.99 / 80
p0 −1.662e−14 ± 9.155e−15
pull
Entries 81
Mean 94.45
Std Dev 0

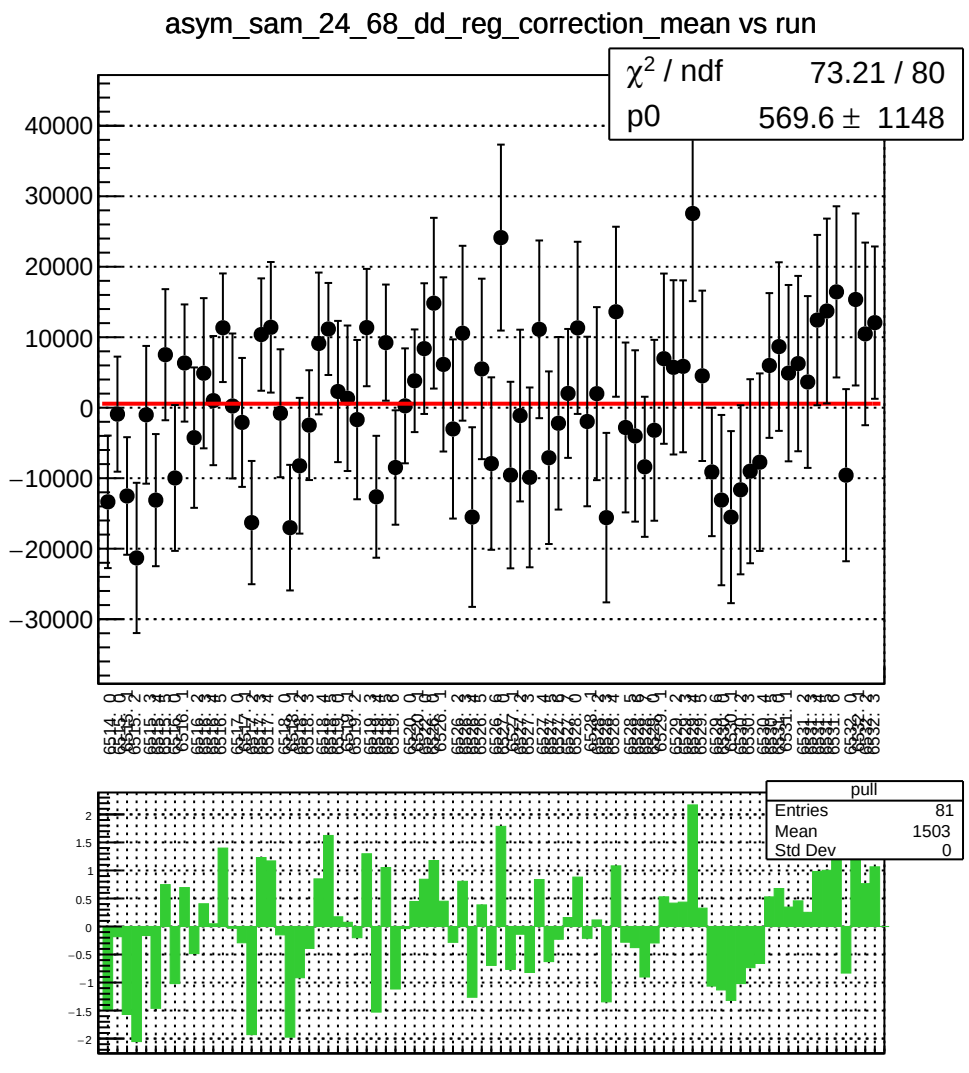

pull1D
Entries 81
Mean 0.09077
Std Dev 0.9707

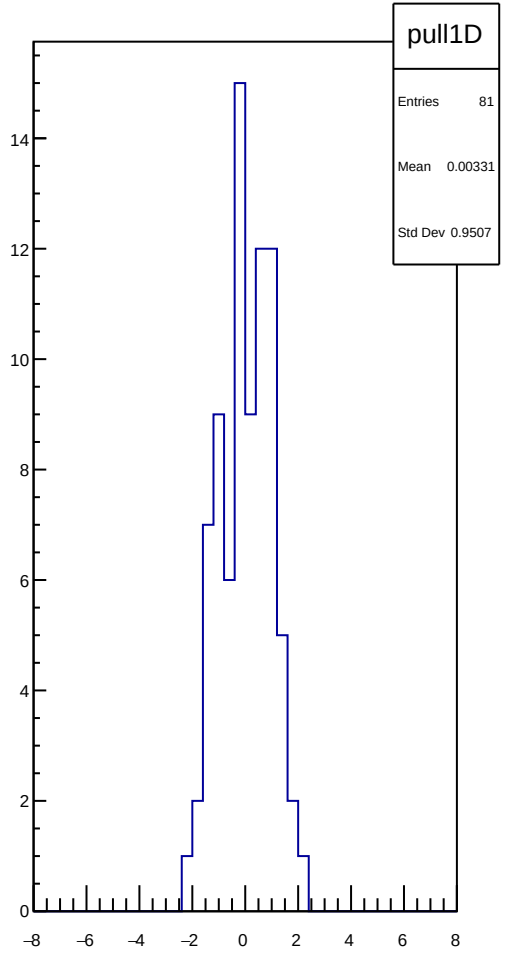

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.651e+05 / 80
p0 6.46e−12 ± 6.474e−15
45
40
35
30
25
20
15
10
5

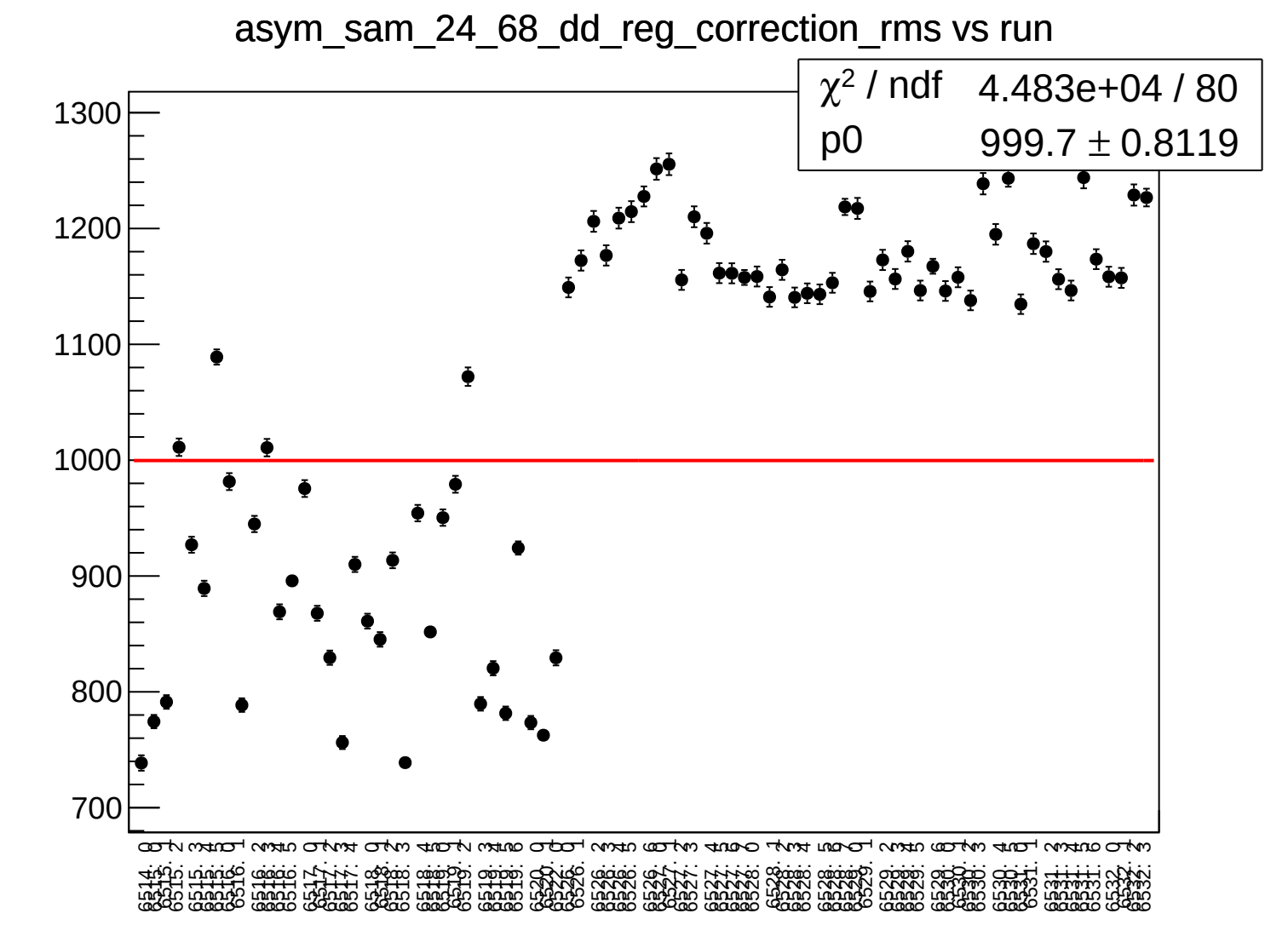

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 74.42 / 80
p0 128.4 ± 101.7
pull
Entries 81
Mean −455.1
Std Dev 0

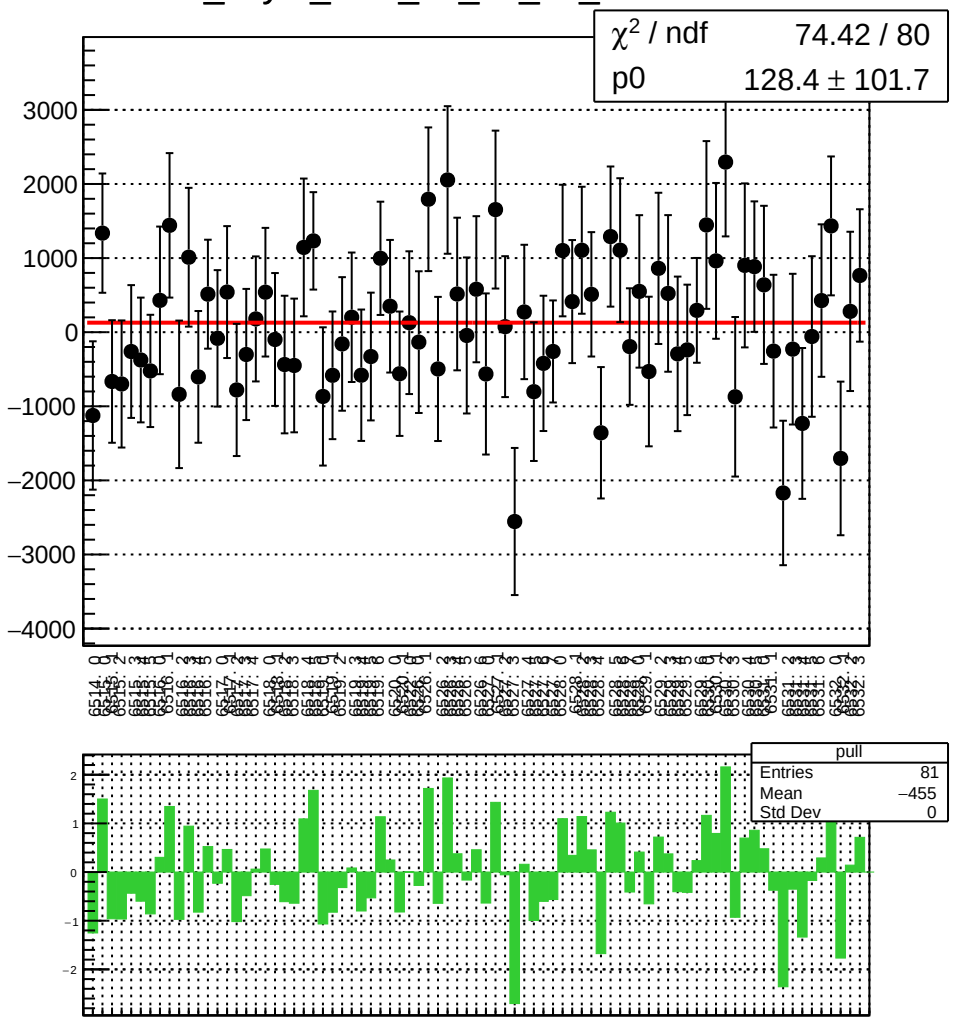

pull1D
Entries 81
Mean −0.003786
Std Dev 0.9585

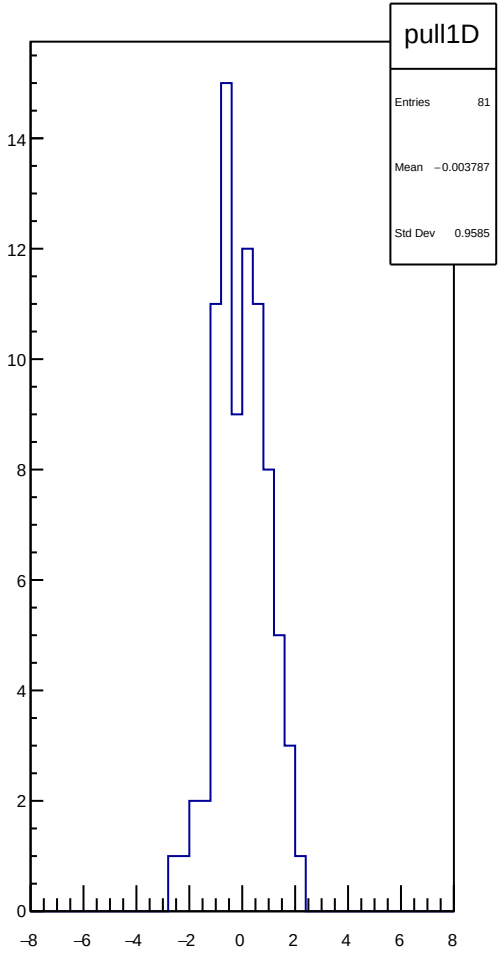

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.03e+04 / 80
p0 89.58 ± 0.07193
110
105
100
95
90
85
80
75

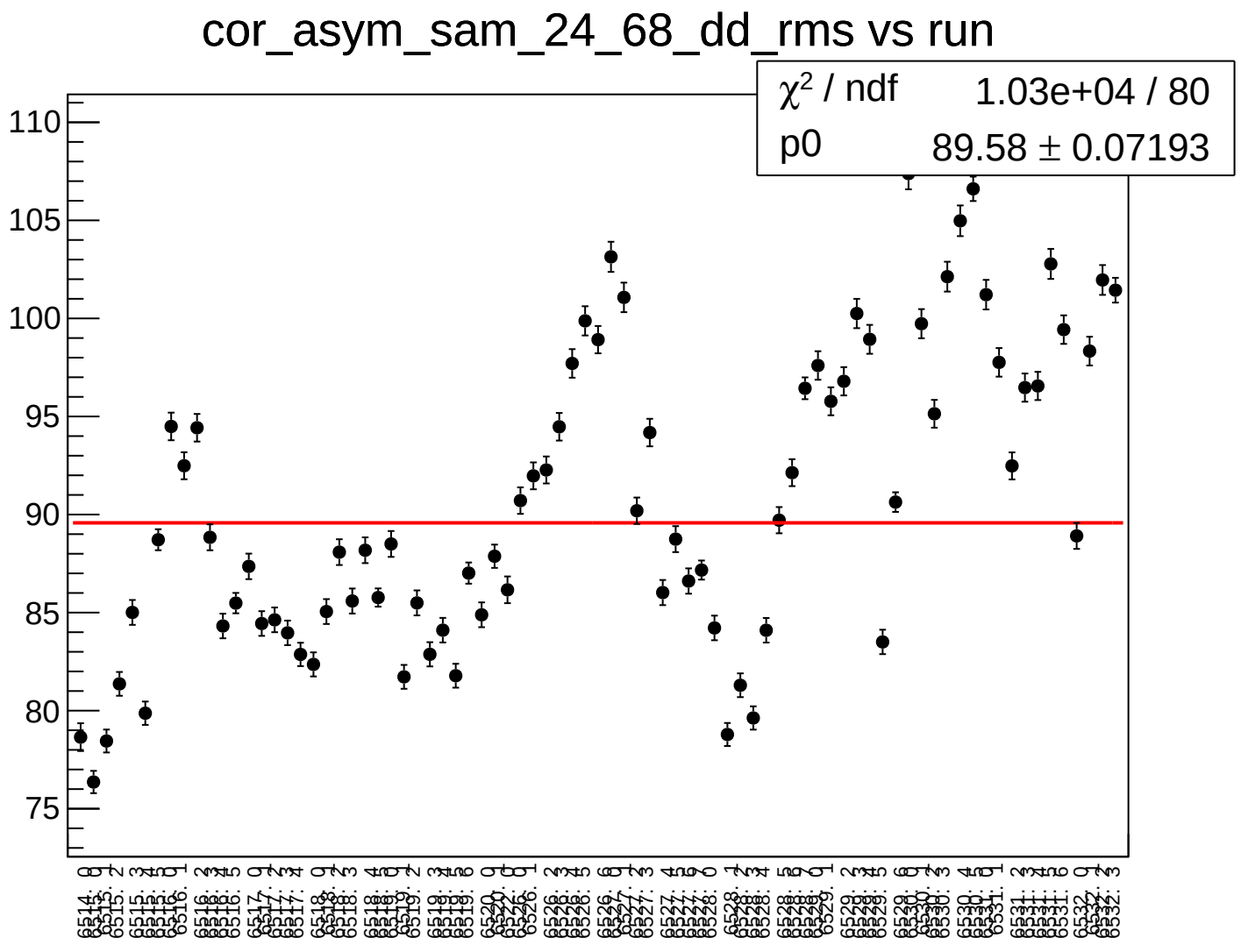

asym_sam_24_68_dd_reg_correction_mean vs run
χ² / ndf 73.21 / 80
p0 569.6 ± 1148
pull
Entries 81
Mean 1503
Std Dev 0

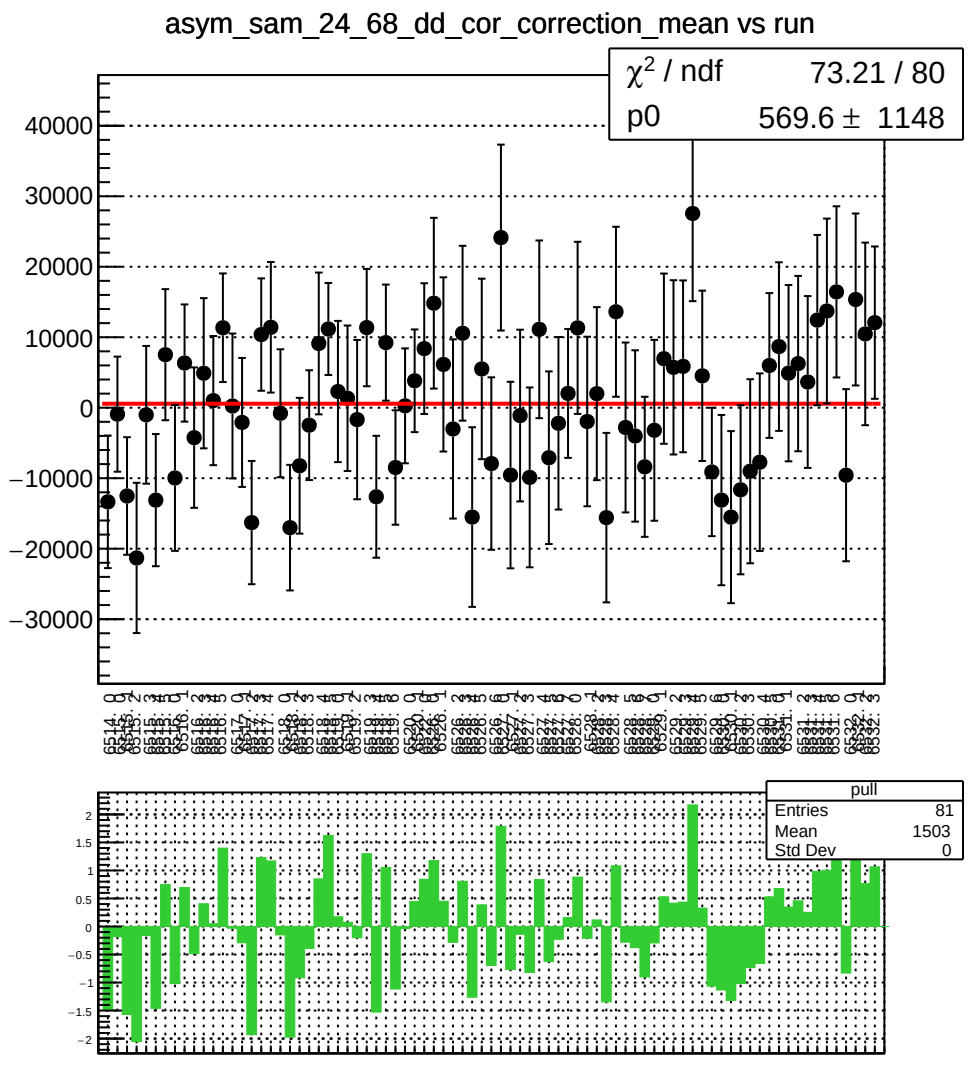

pull1D
Entries 81
Mean 0.00331
Std Dev 0.9507

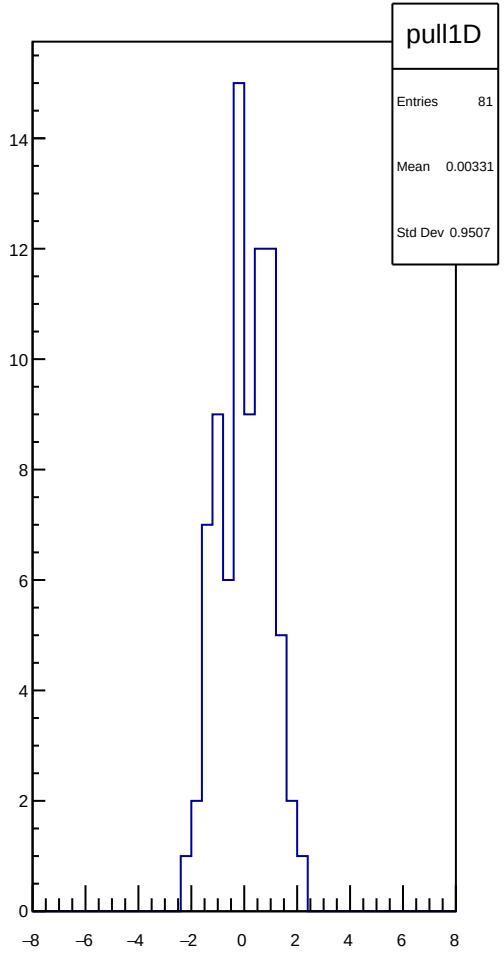

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 4.483e+04 / 80
p0 999.7 ± 0.8119
1300
1200
1100
1000
900
800
700

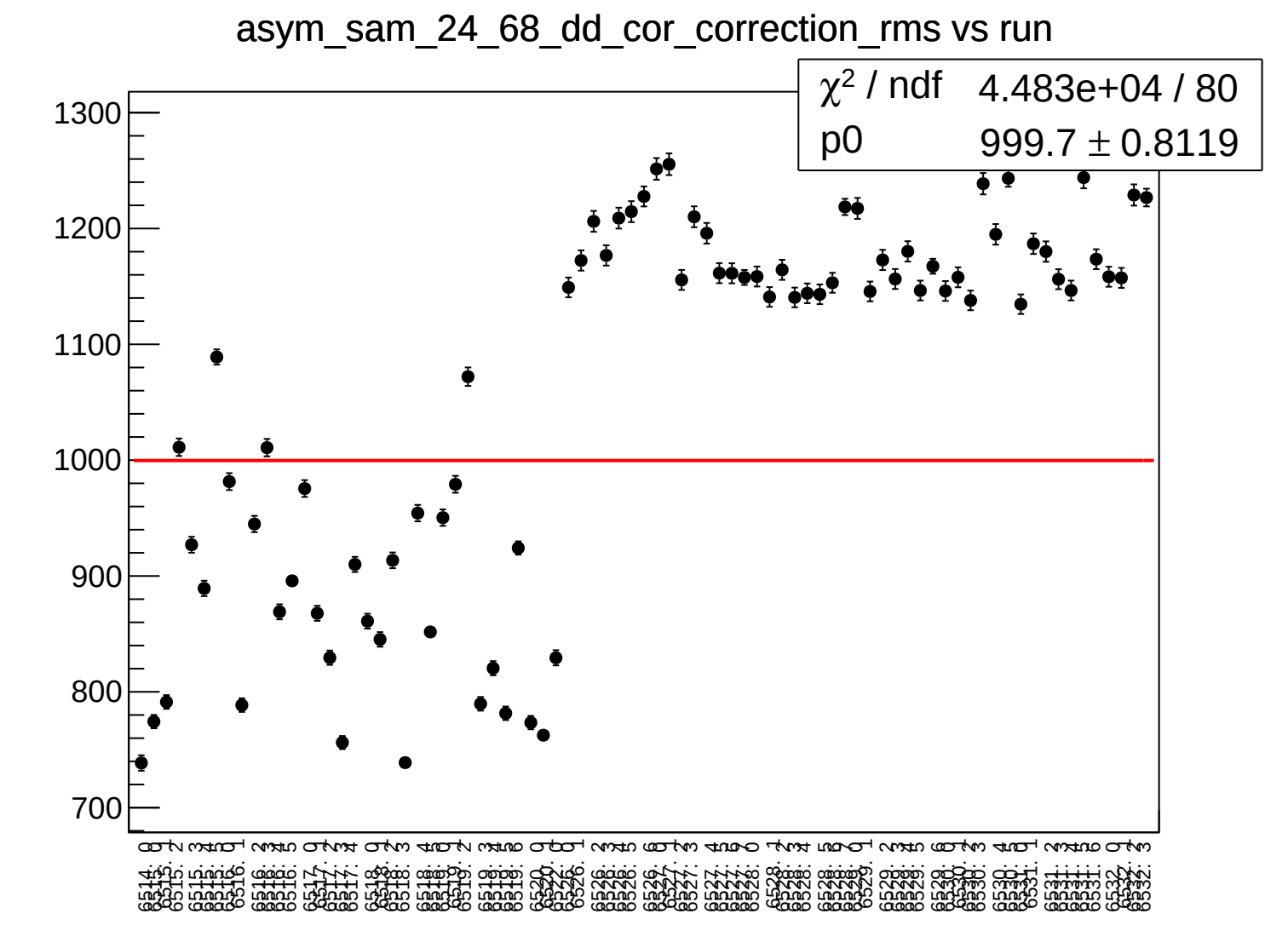

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 74.42 / 80
p0 128.4 ± 101.7
pull
Entries 81
Mean −455
Std Dev 0

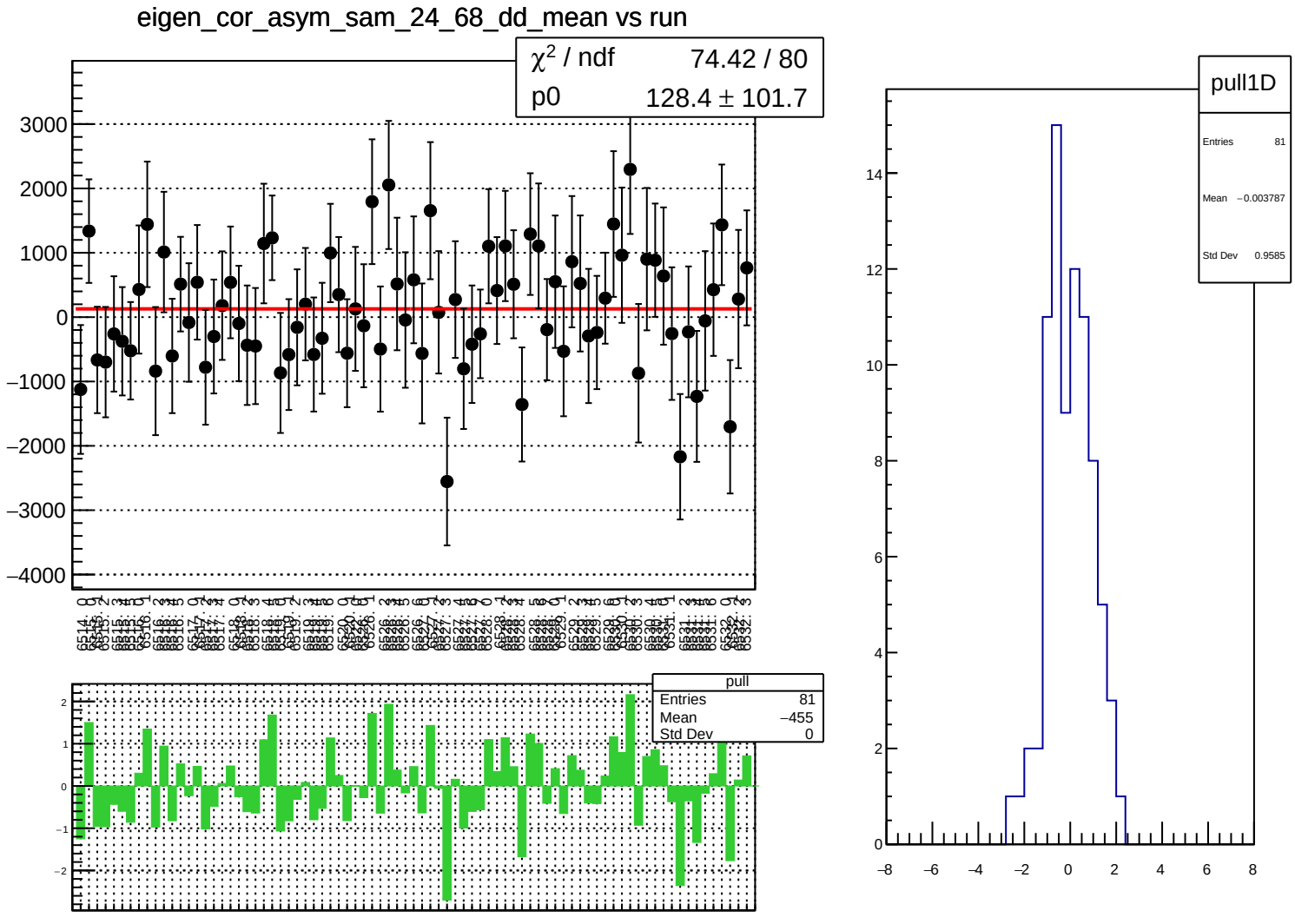

pull1D
Entries 81
Mean −0.003787
Std Dev 0.9585

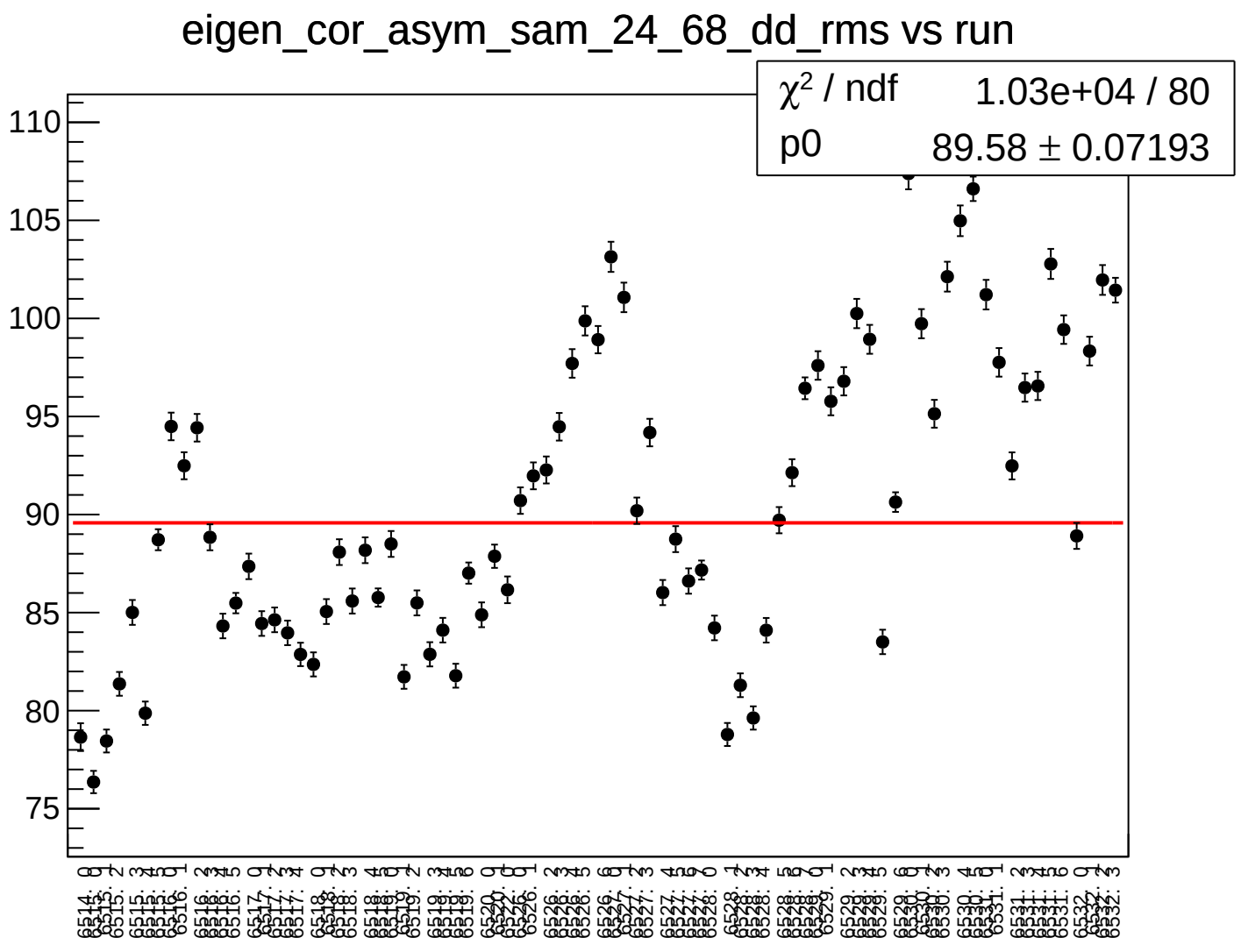

cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.03e+04 / 80
p0 89.58 ± 0.07193
110
105
100
95
90
85
80
75

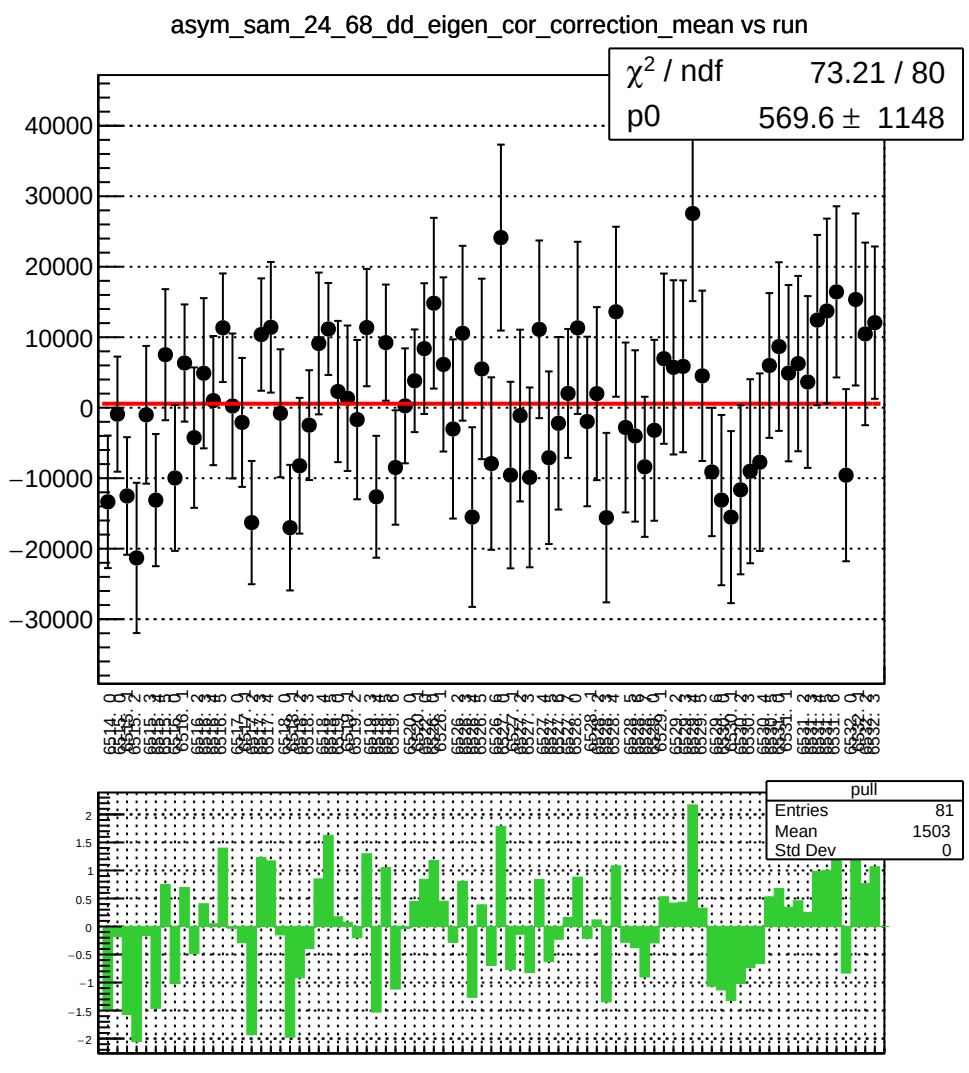

asym_sam_24_68_dd_cor_correction_mean vs run
χ² / ndf 73.21 / 80
p0 569.6 ± 1148
pull
Entries 81
Mean 1503
Std Dev 0

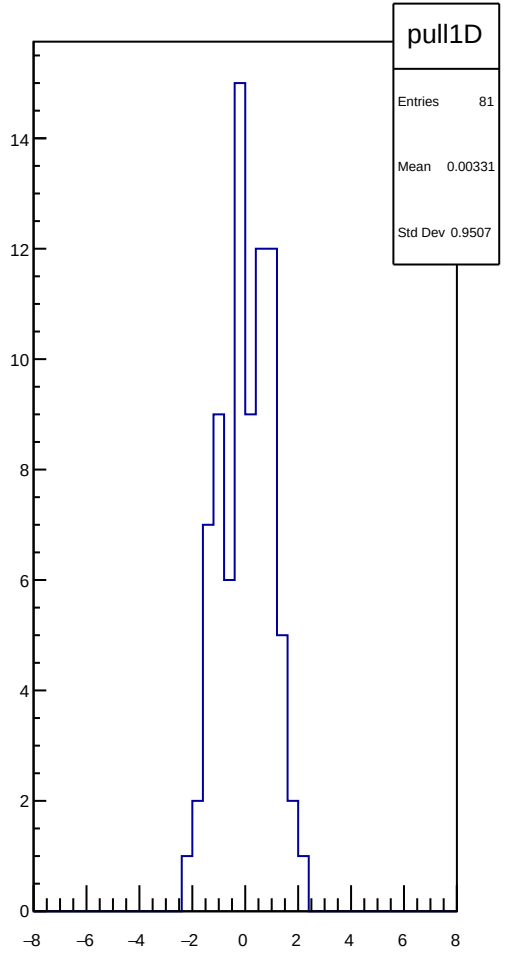

pull1D
Entries 81
Mean 0.00331
Std Dev 0.9507

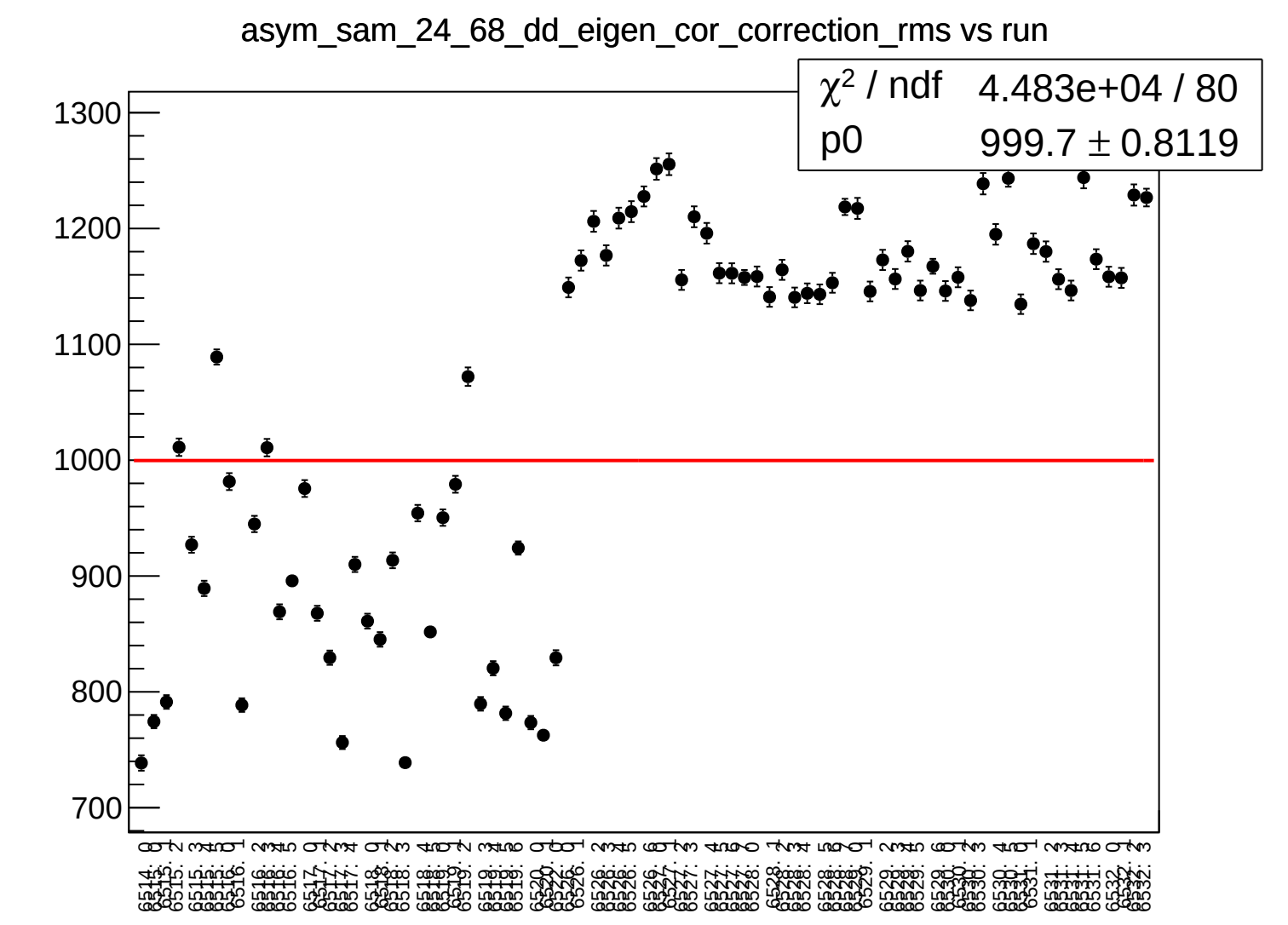

asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 4.483e+04 / 80
p0 999.7 ± 0.8119
1300
1200
1100
1000
900
800
700

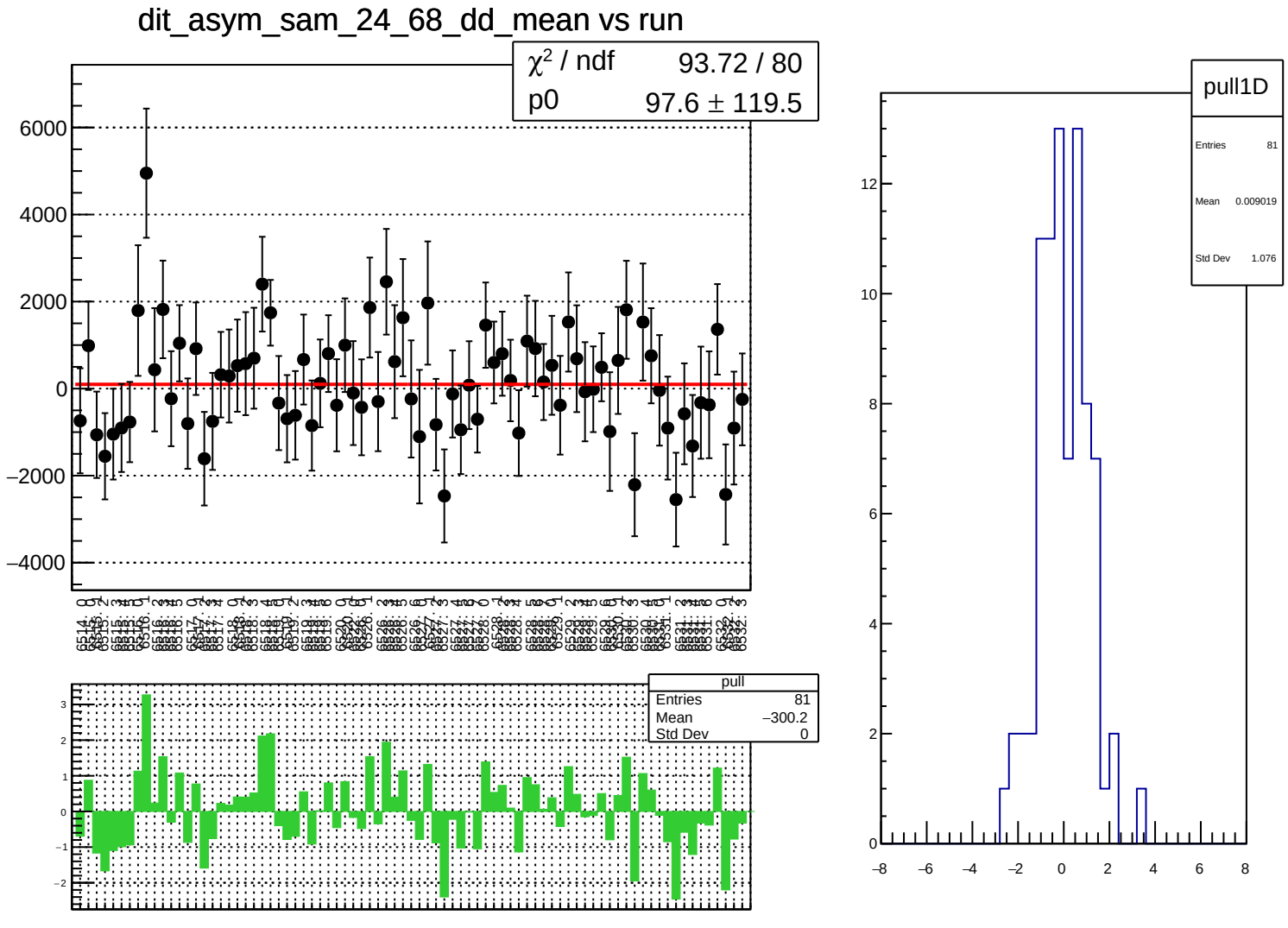

eigen_cor_asym_sam_24_68_dd_mean vs run
χ^2 / ndf 74.42 / 80
p0 128.4 ± 101.7
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 81
Mean −455
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 81
Mean −0.003787
Std Dev 0.9585
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

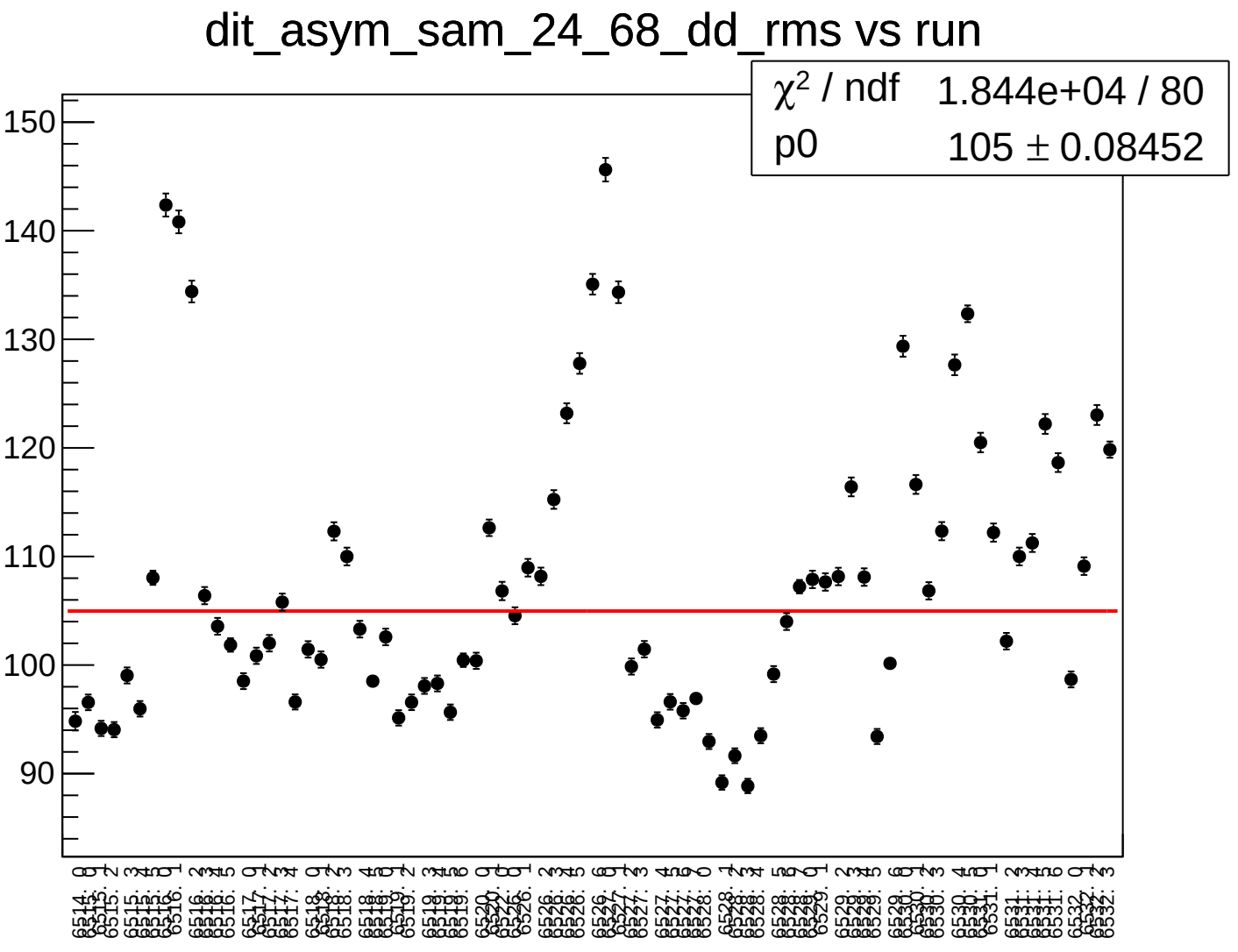

eigen_cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.03e+04 / 80
p0 89.58 ± 0.07193
110
105
100
95
90
85
80
75

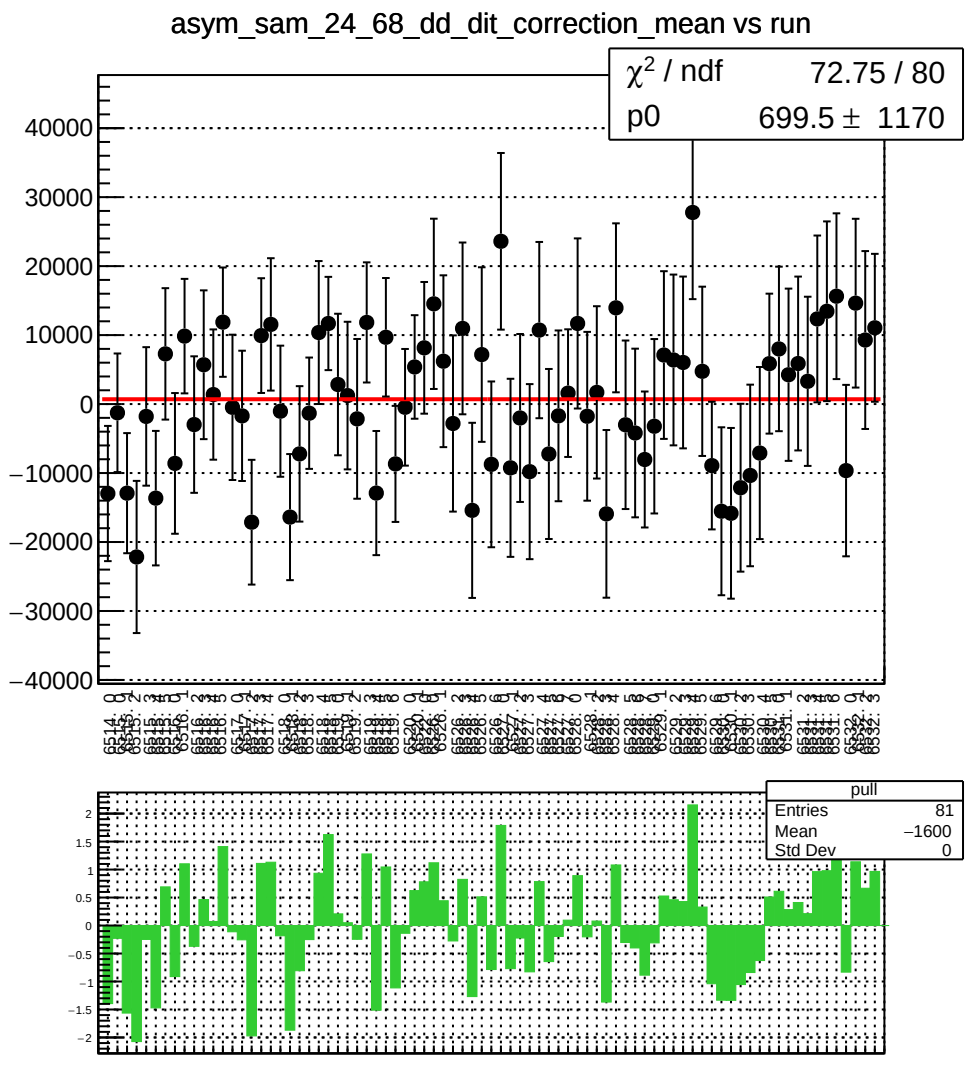

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
χ² / ndf 73.21 / 80
p0 569.6 ± 1148
pull
Entries 81
Mean 1503
Std Dev 0

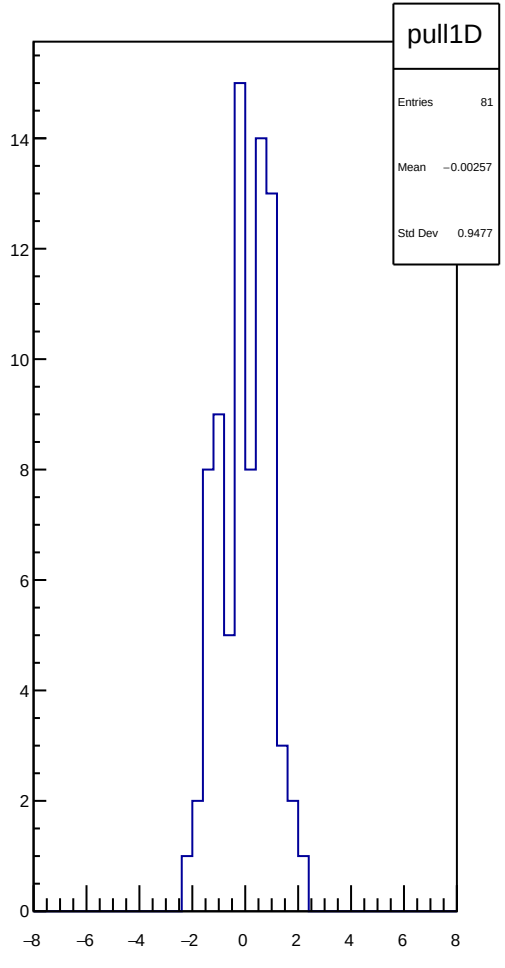

pull1D
Entries 81
Mean 0.00331
Std Dev 0.9507

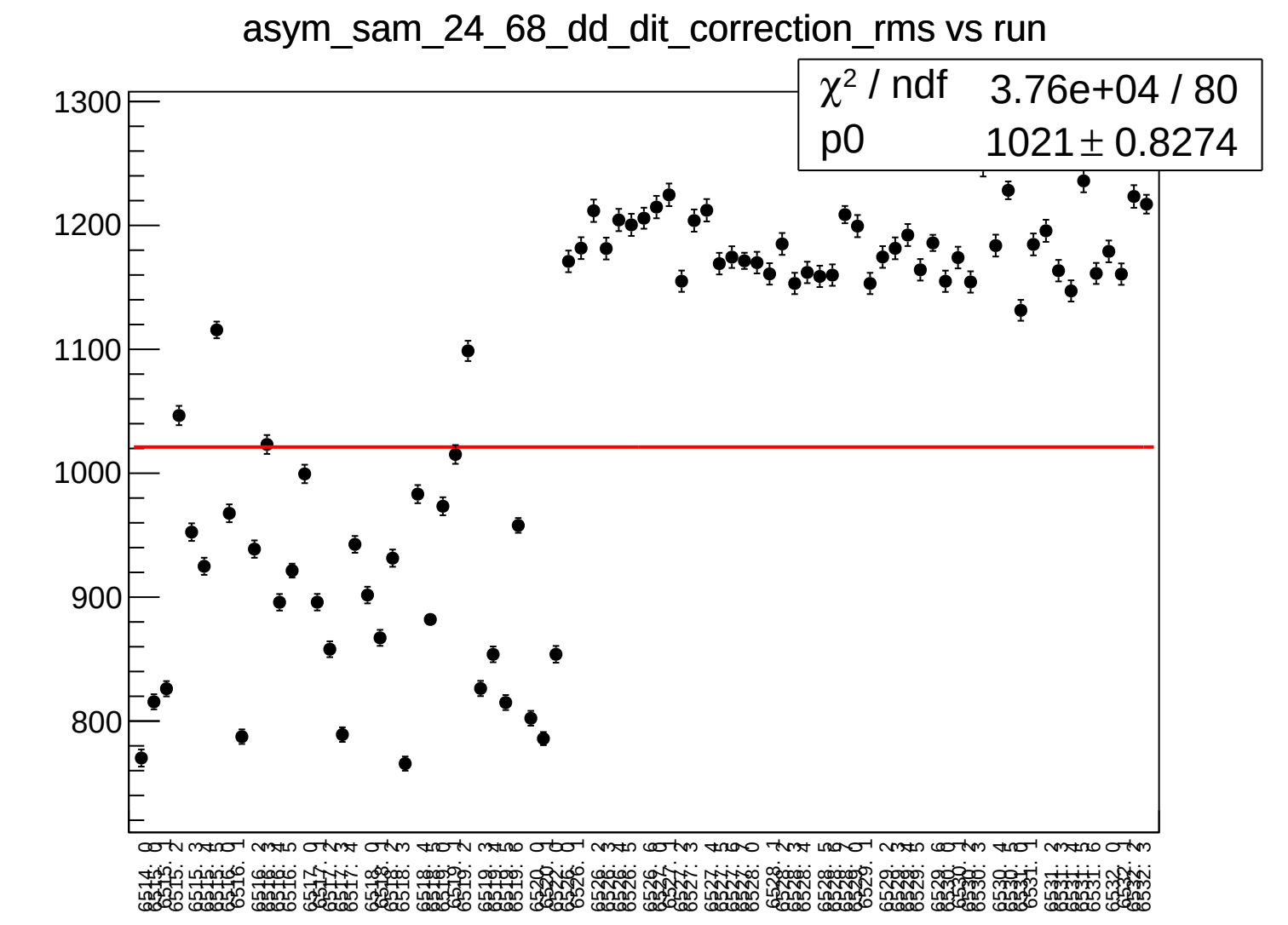

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 4.483e+04 / 80
p0 999.7 ± 0.8119
1300
1200
1100
1000
900
800
700

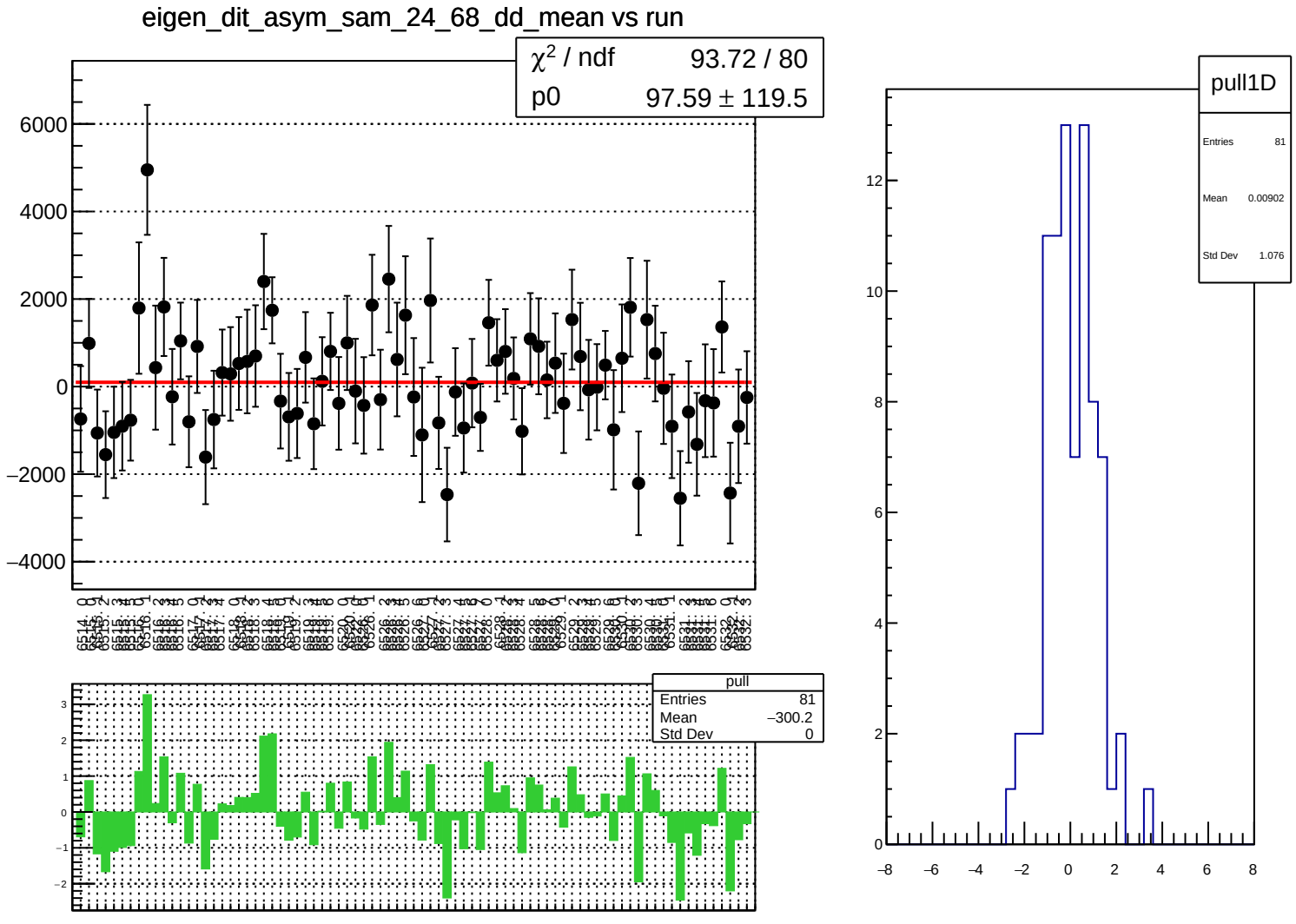

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 93.72 / 80
p0 97.6 ± 119.5
6000
4000
2000
0
−2000
−4000
pull
Entries 81
Mean −300.2
Std Dev 0
pull1D
Entries 81
Mean 0.009019
Std Dev 1.076
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

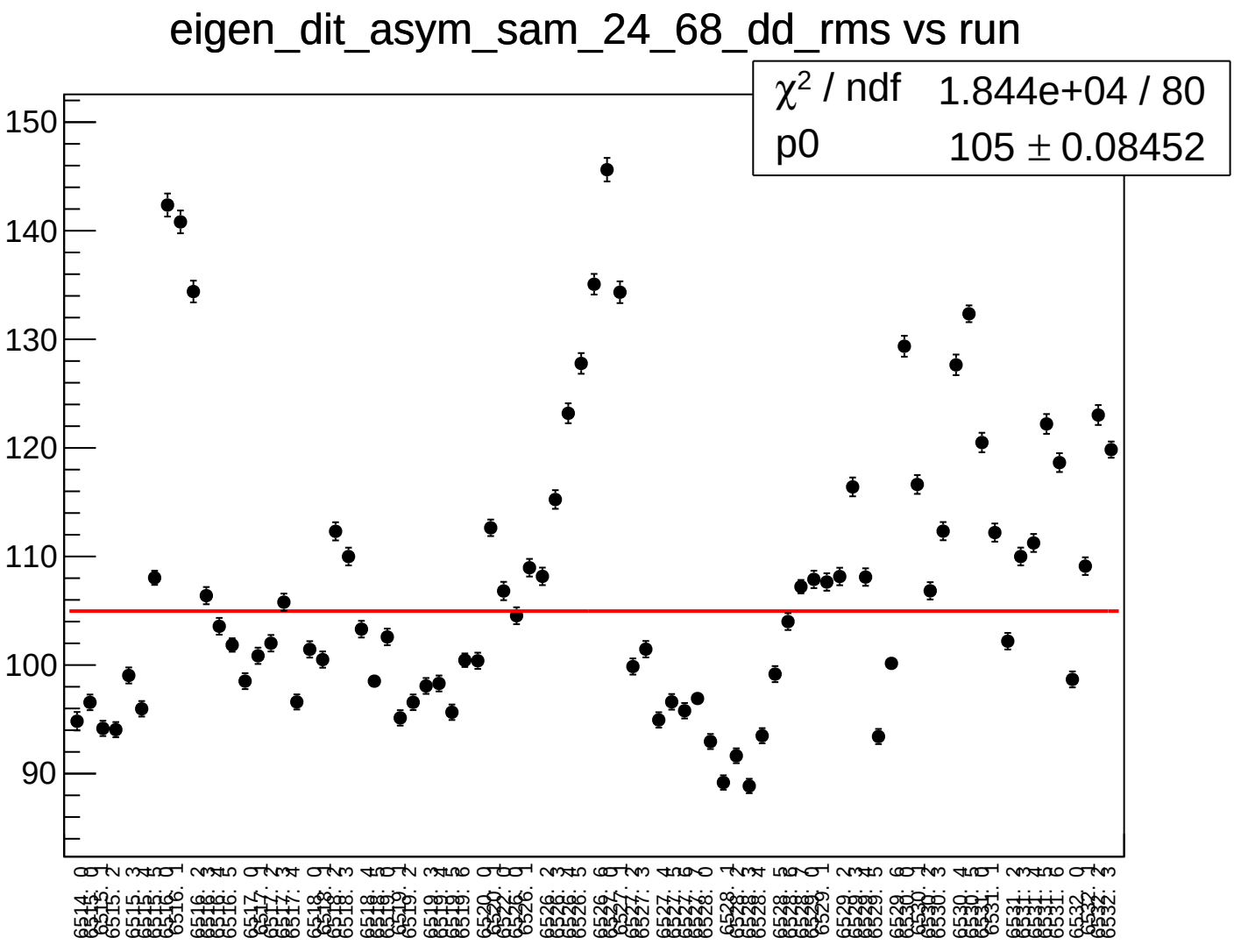

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.844e+04 / 80
p0 105 ± 0.08452
150
140
130
120
110
100
90

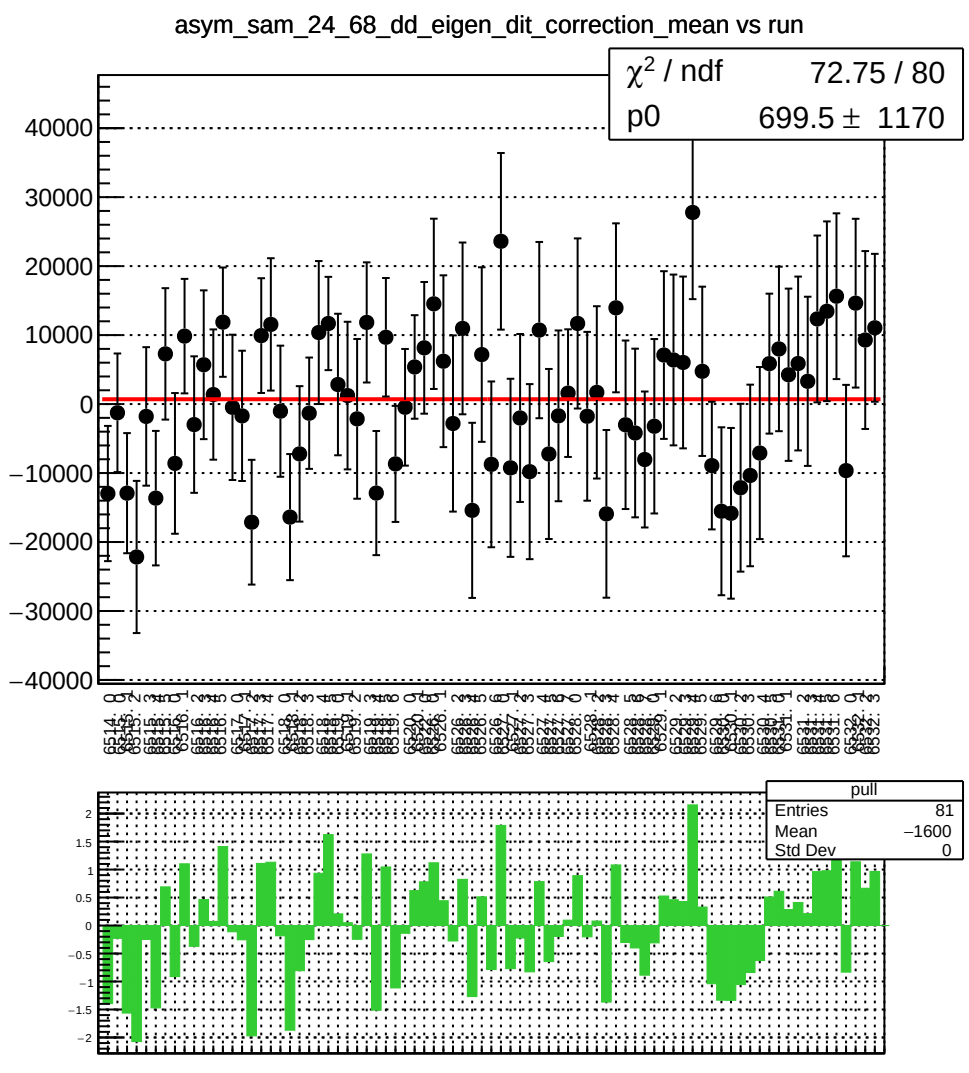

asym_sam_24_68_dd_dit_correction_mean vs run
χ² / ndf 72.75 / 80
p0 699.5 ± 1170
pull
Entries 81
Mean −1600
Std Dev 0

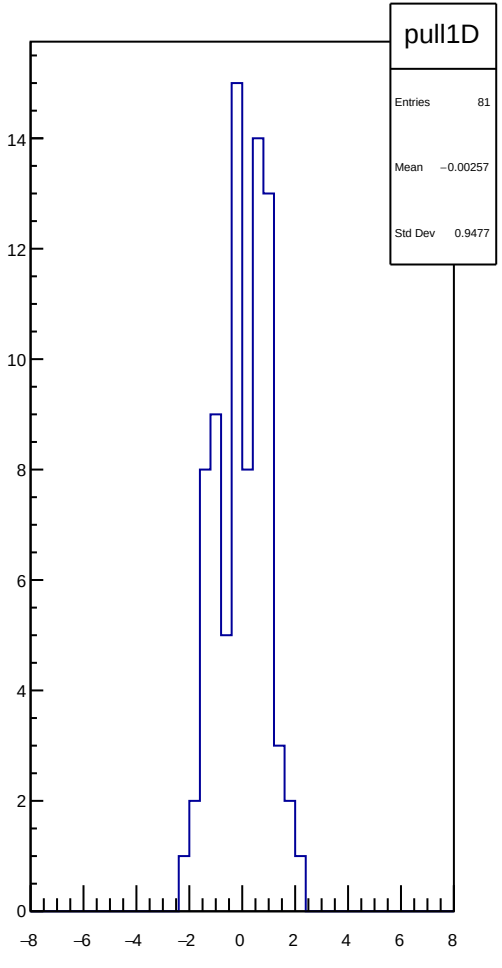

pull1D
Entries 81
Mean −0.00257
Std Dev 0.9477

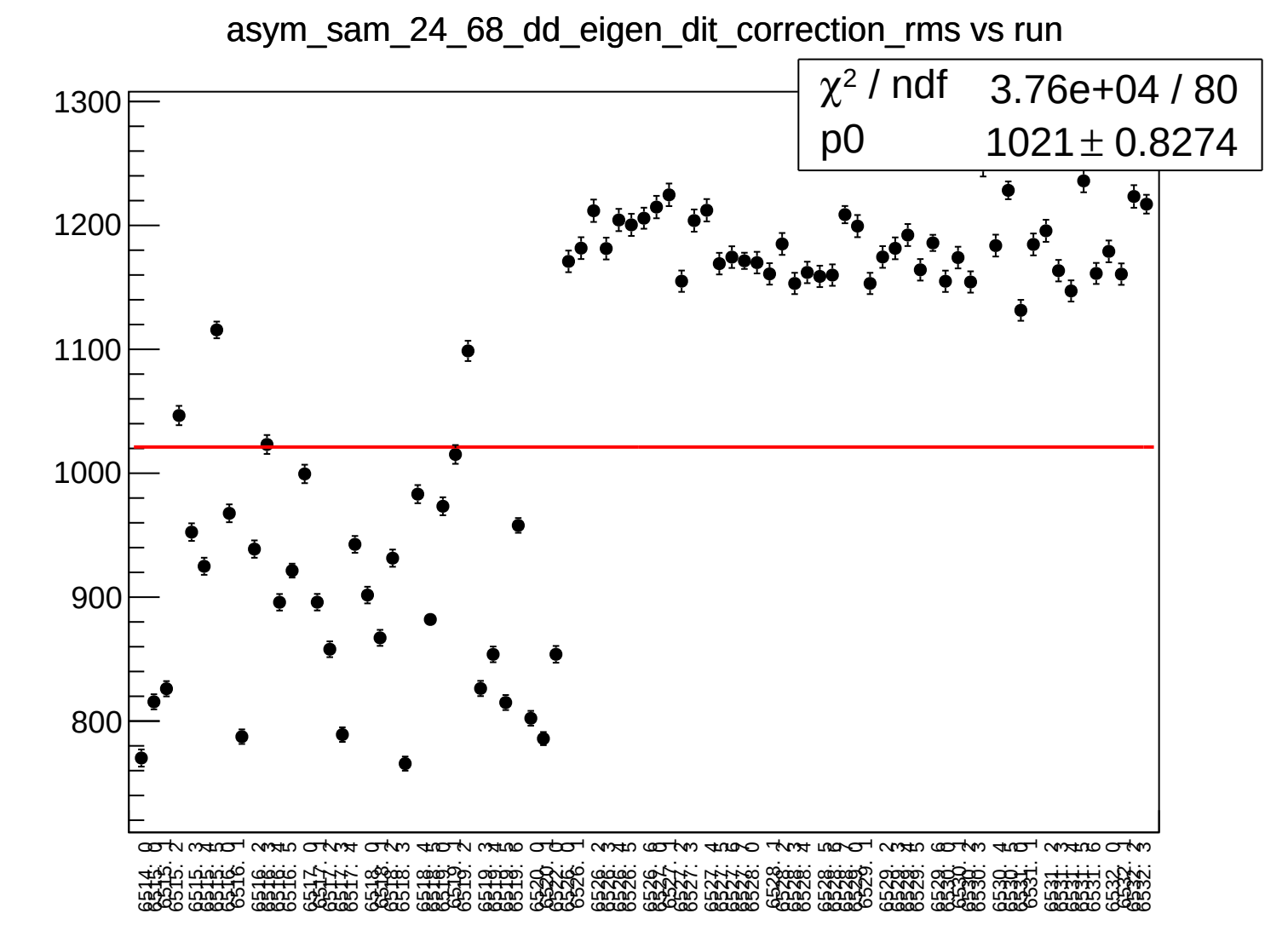

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 3.76e+04 / 80
p0 1021 ± 0.8274
1300
1200
1100
1000
900
800

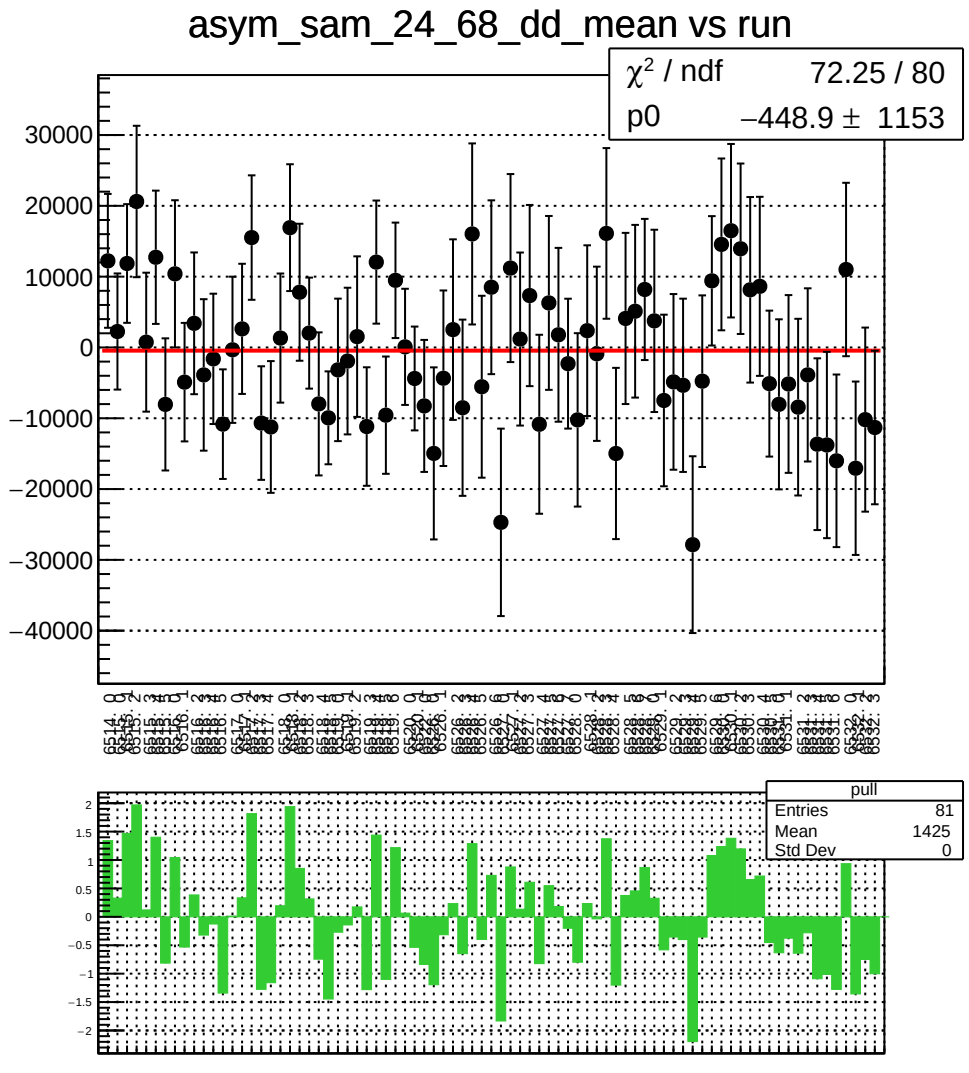

eigen_dit_asym_sam_24_68_dd_mean vs run
χ^2 / ndf 93.72 / 80
p0 97.59 ± 119.5
pull
Entries 81
Mean −300.2
Std Dev 0
pull1D
Entries 81
Mean 0.00902
Std Dev 1.076

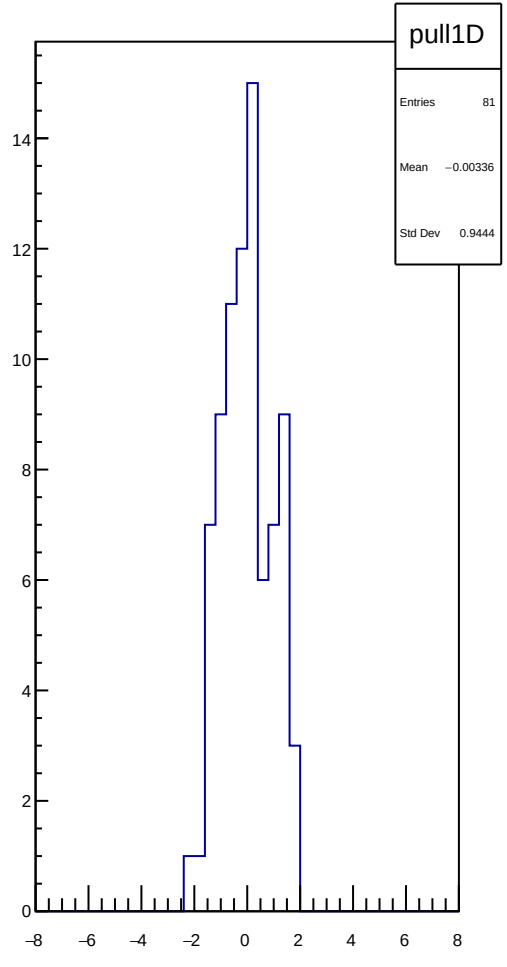

eigen_dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.844e+04 / 80
p0 105 ± 0.08452
150
140
130
120
110
100
90

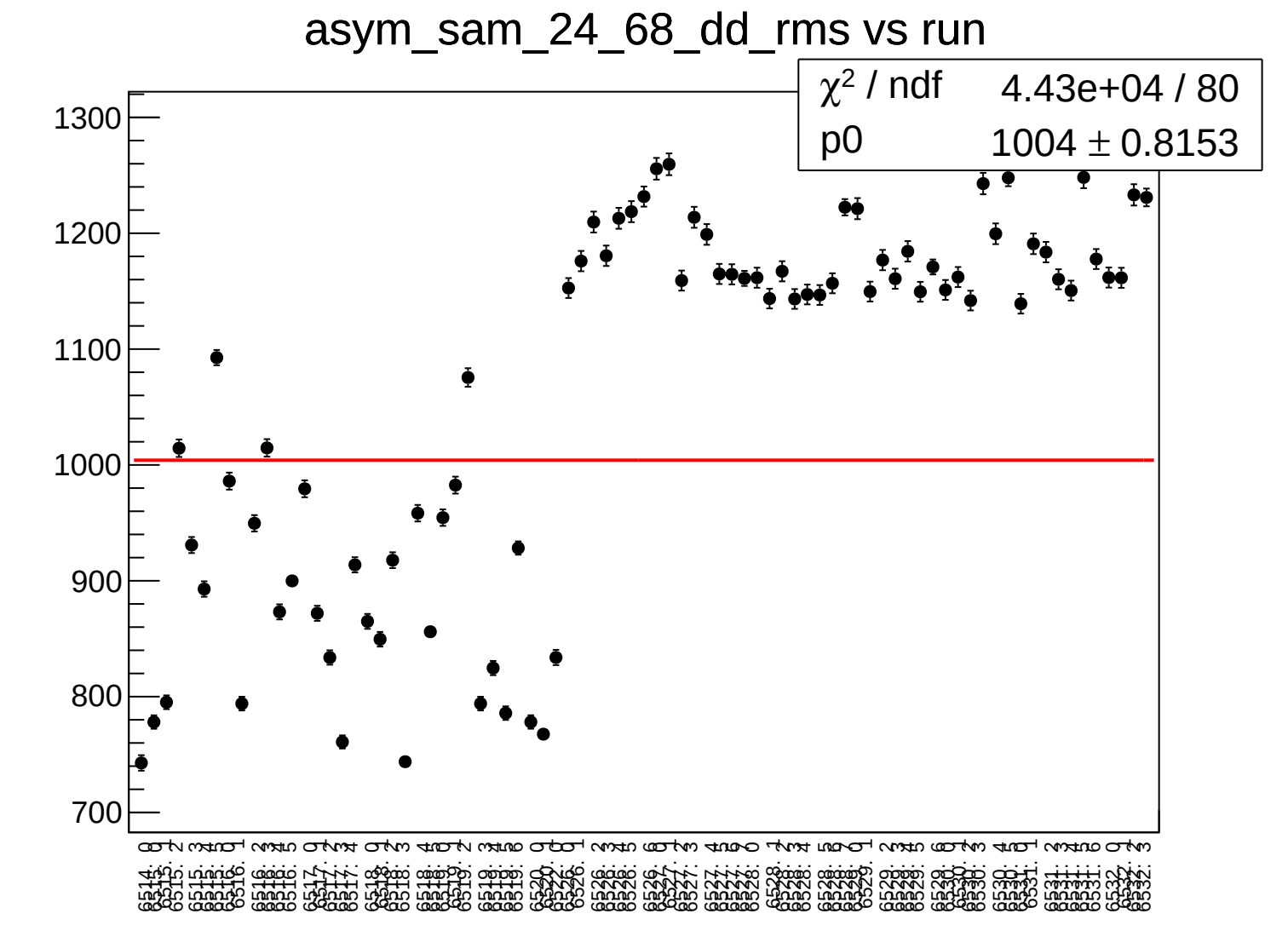

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
χ² / ndf 72.75 / 80
p0 699.5 ± 1170
pull
Entries 81
Mean −1600
Std Dev 0

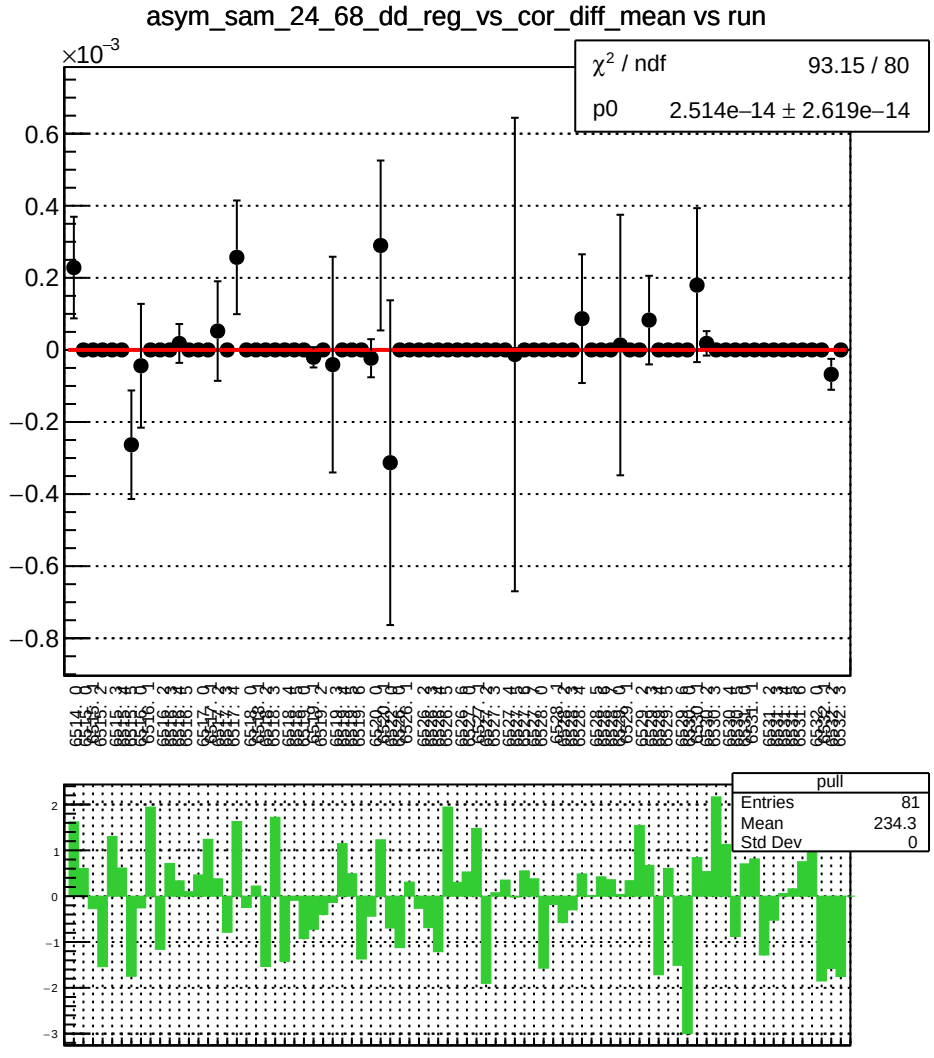

pull1D
Entries 81
Mean −0.00257
Std Dev 0.9477

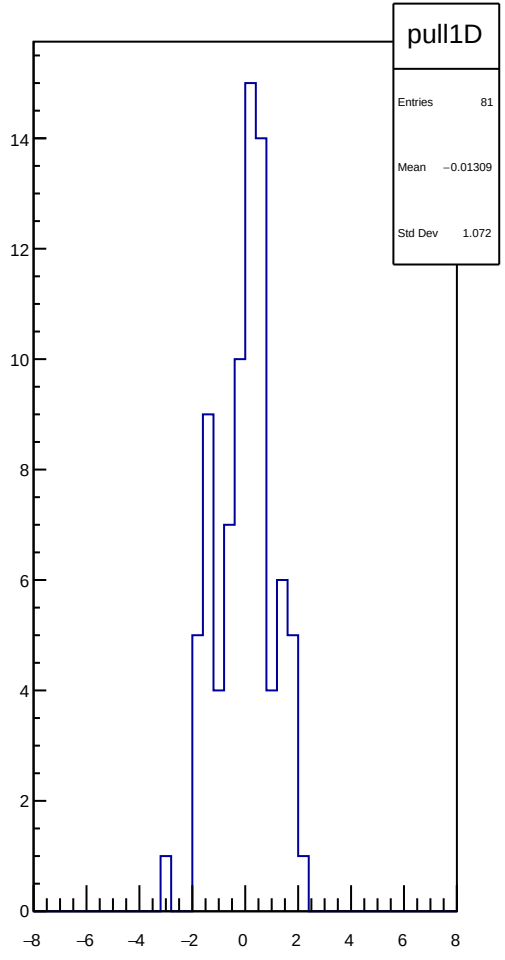

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.76e+04 / 80
p0 1021 ± 0.8274
1300
1200
1100
1000
900
800

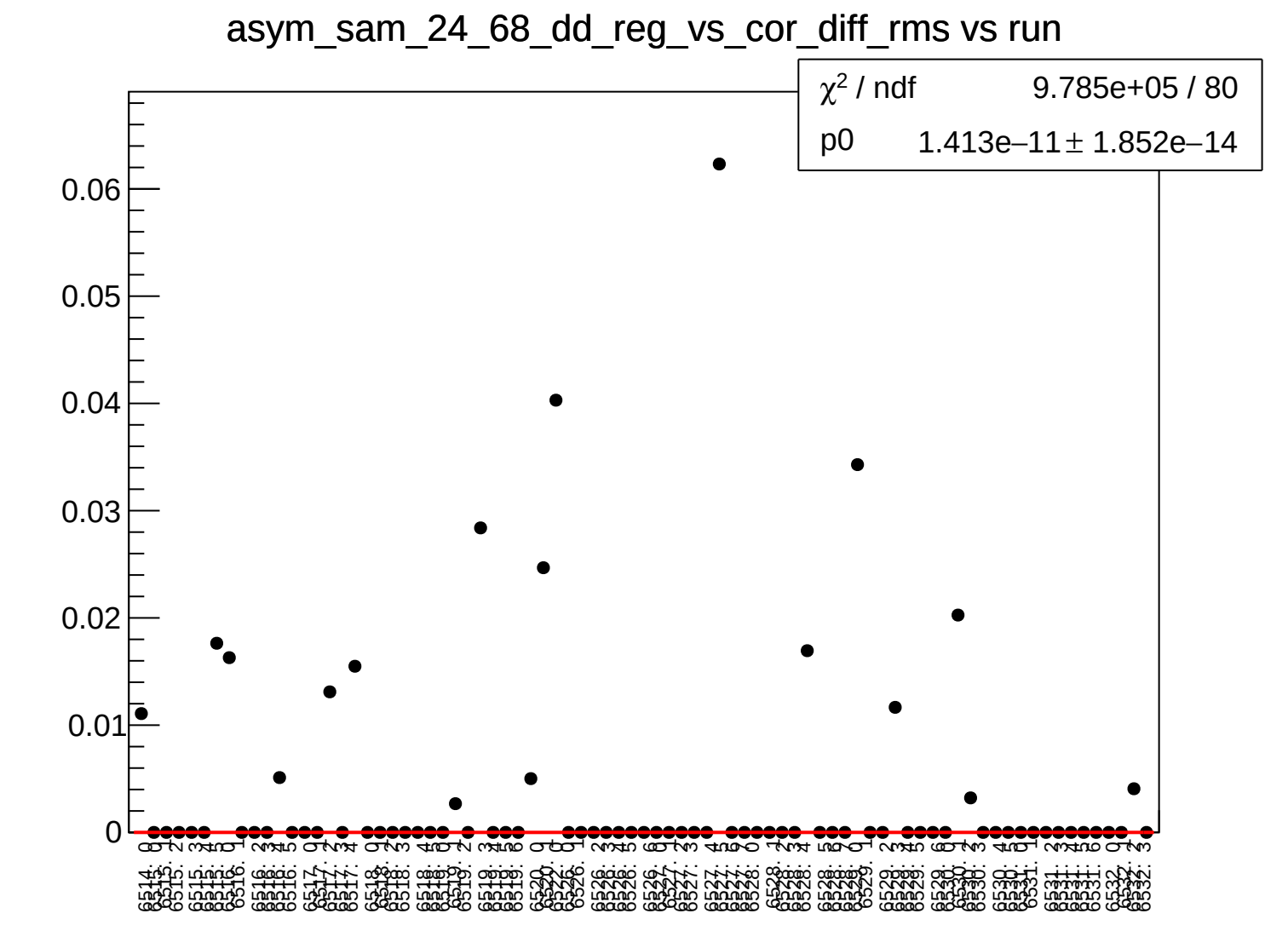

asym_sam_24_68_dd_mean vs run
χ² / ndf 72.25 / 80
p0 −448.9 ± 1153
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 81
Mean 1425
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

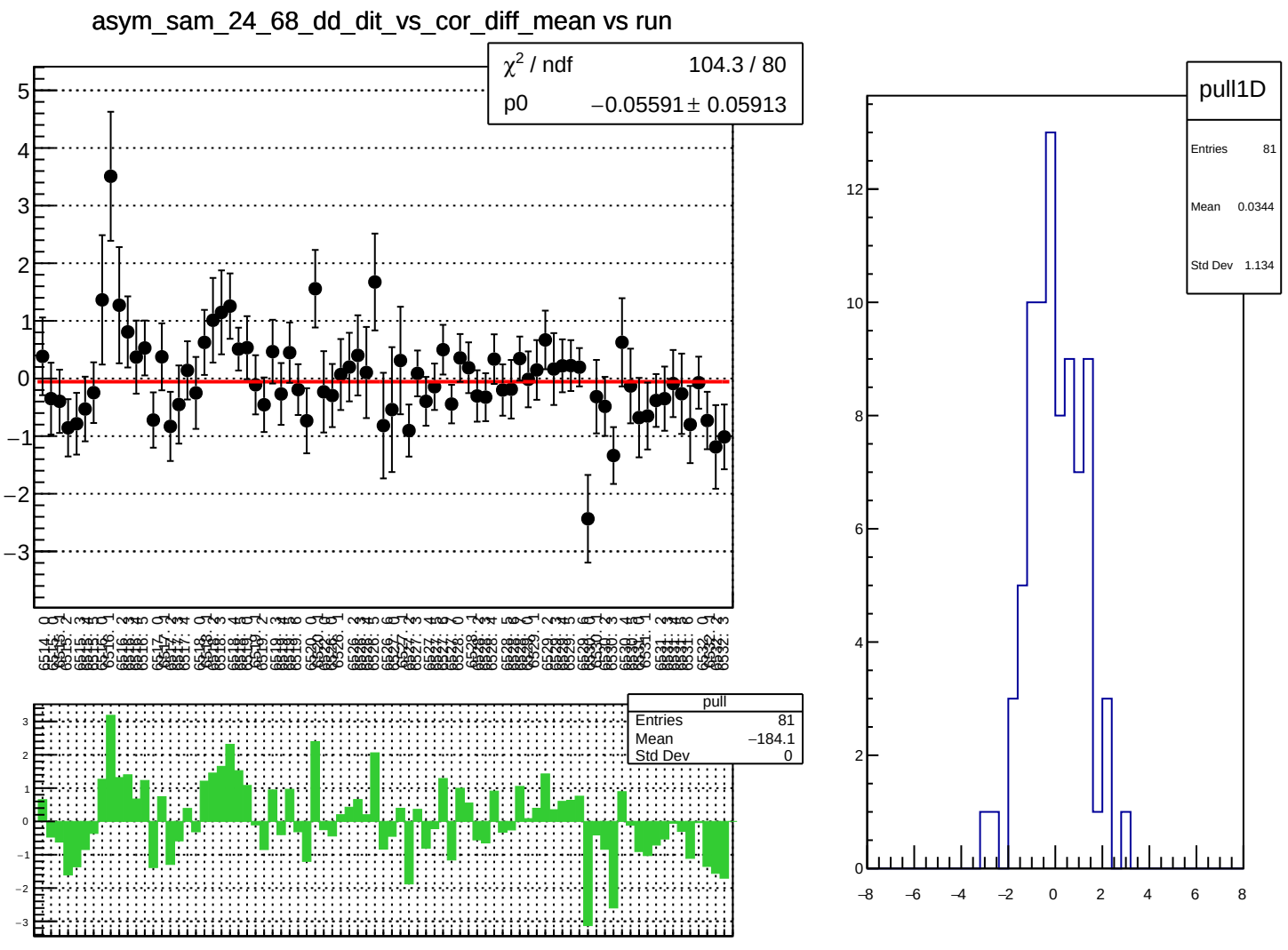

pull1D
Entries 81
Mean −0.00336
Std Dev 0.9444
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

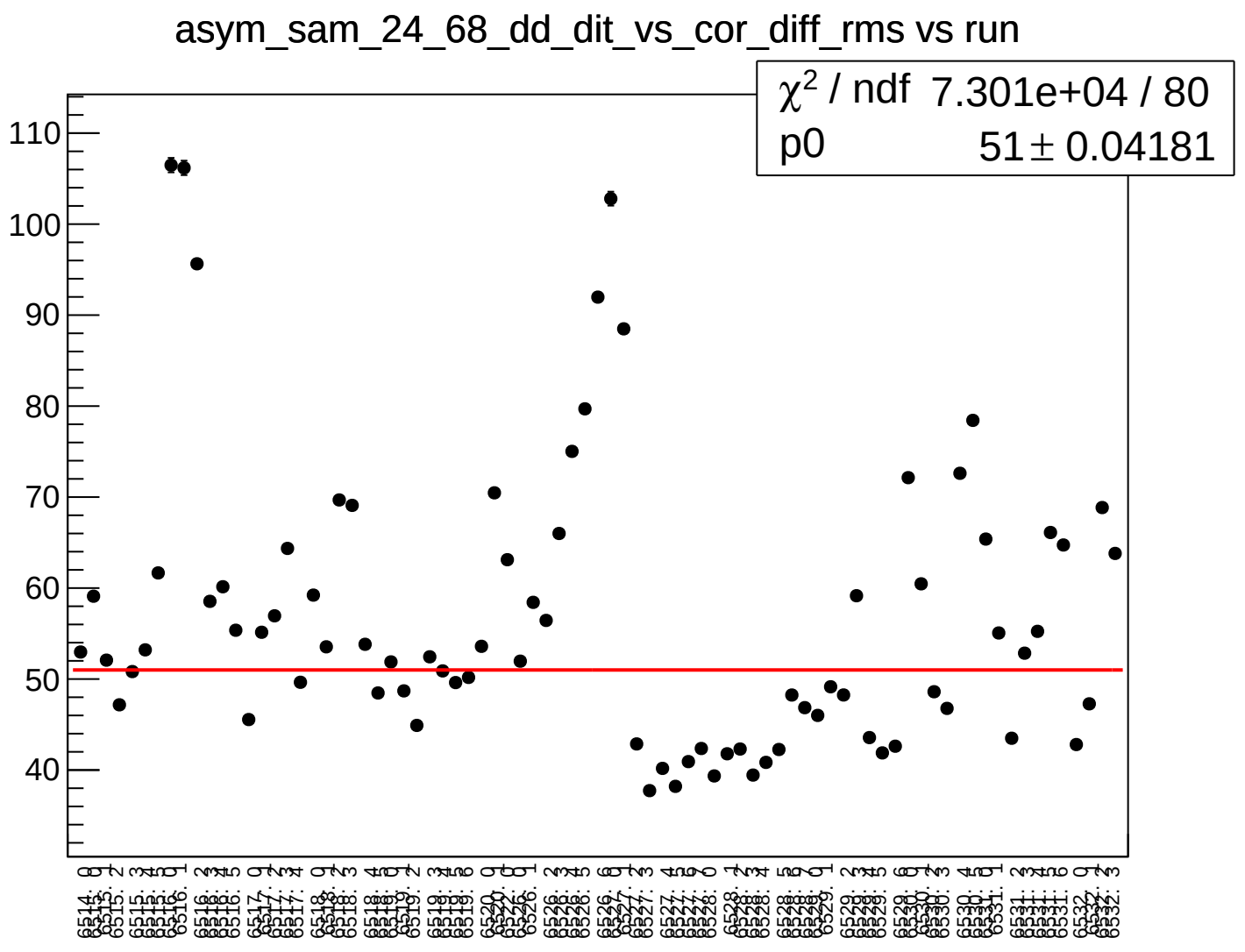

asym_sam_24_68_dd_rms vs run
χ² / ndf 4.43e+04 / 80
p0 1004 ± 0.8153
1300
1200
1100
1000
900
800
700

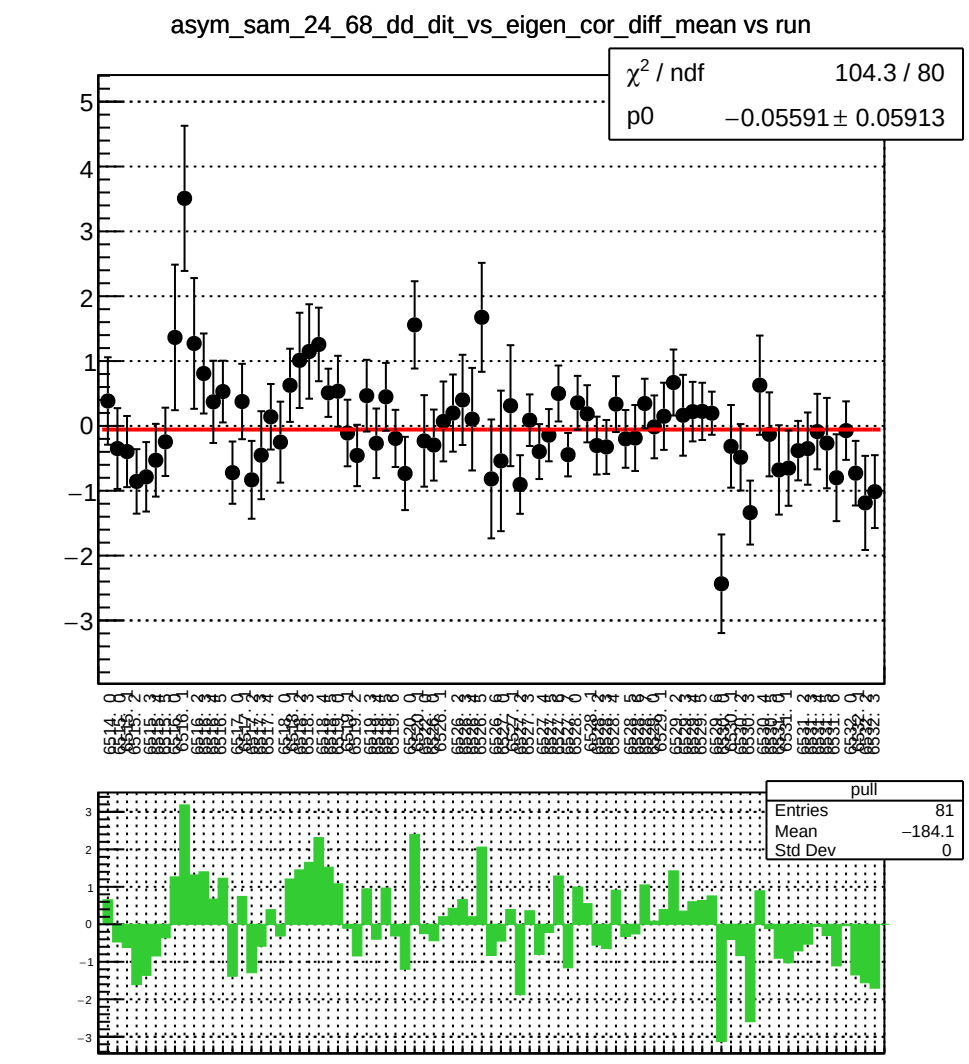

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 93.15 / 80
p0 2.514e−14 ± 2.619e−14
pull
Entries 81
Mean 234.3
Std Dev 0

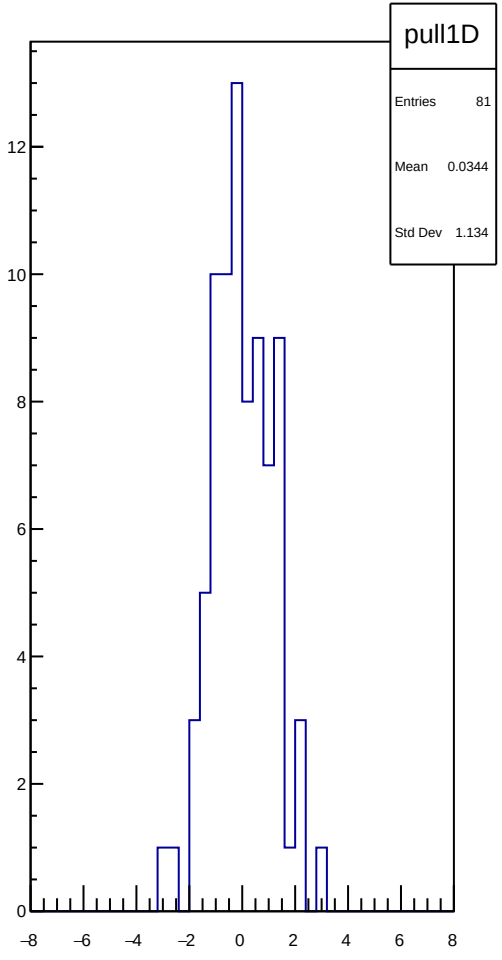

pull1D
Entries 81
Mean −0.01309
Std Dev 1.072

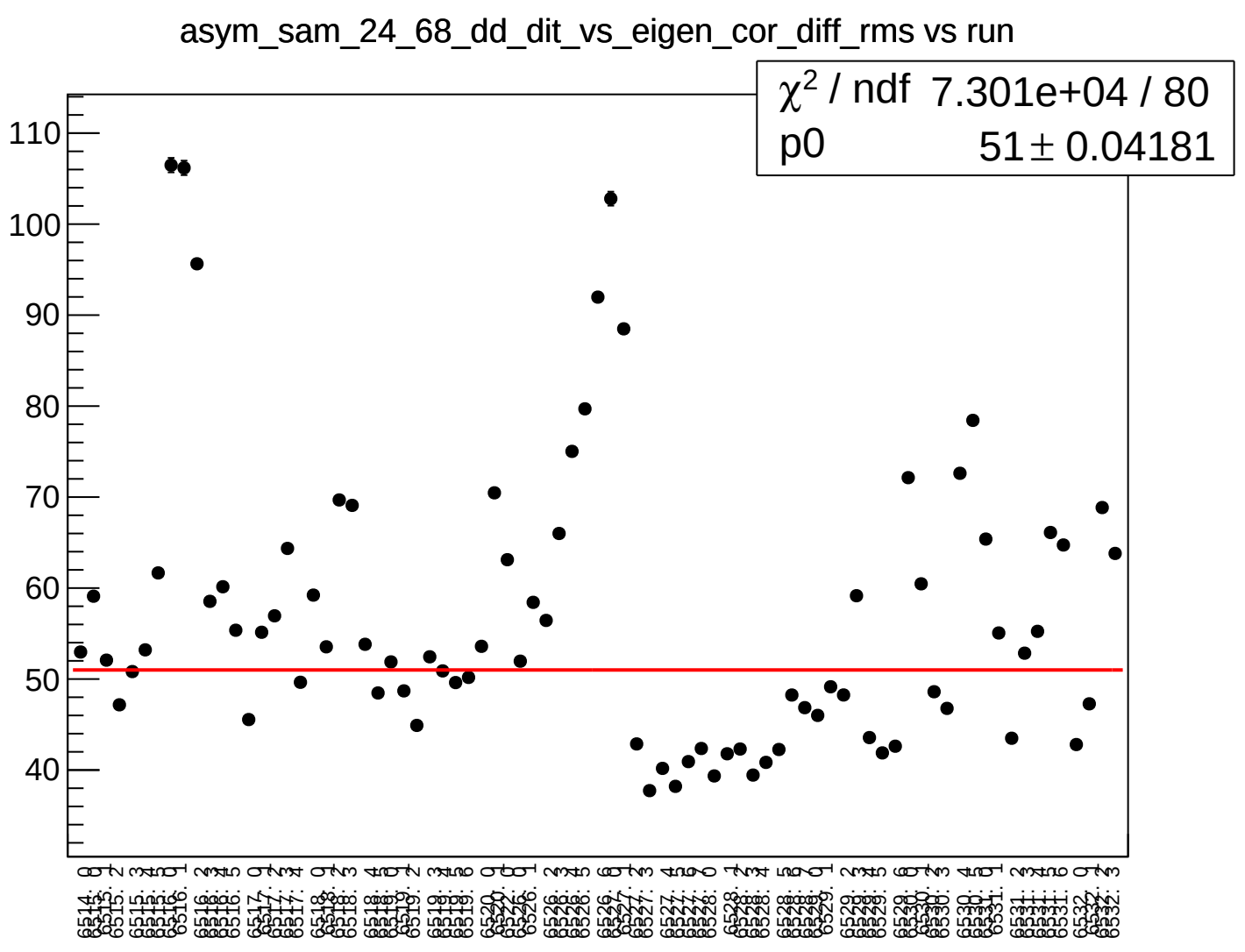

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.785e+05 / 80
p0 1.413e−11 ± 1.852e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

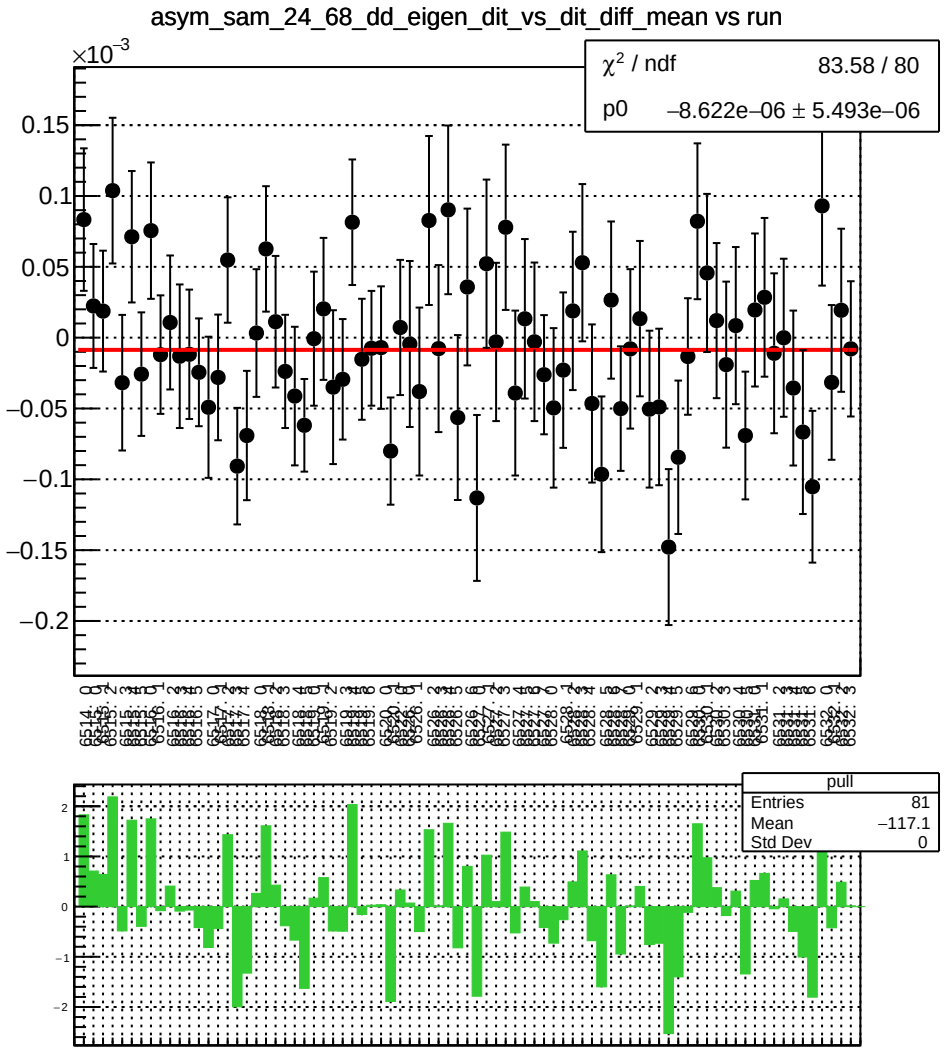

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 104.3 / 80
p0 −0.05591 ± 0.05913
pull
Entries 81
Mean −184.1
Std Dev 0
pull1D
Entries 81
Mean 0.0344
Std Dev 1.134

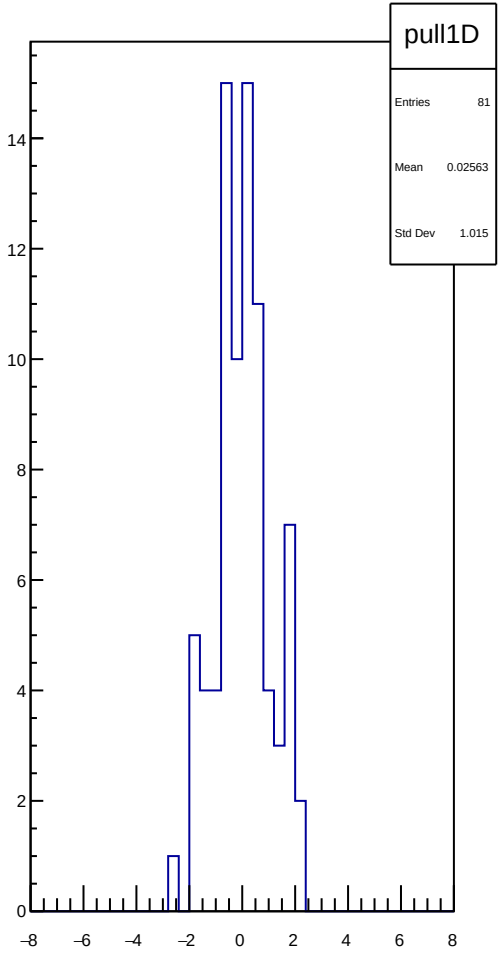

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.301e+04 / 80
p0 51 ± 0.04181
110
100
90
80
70
60
50
40

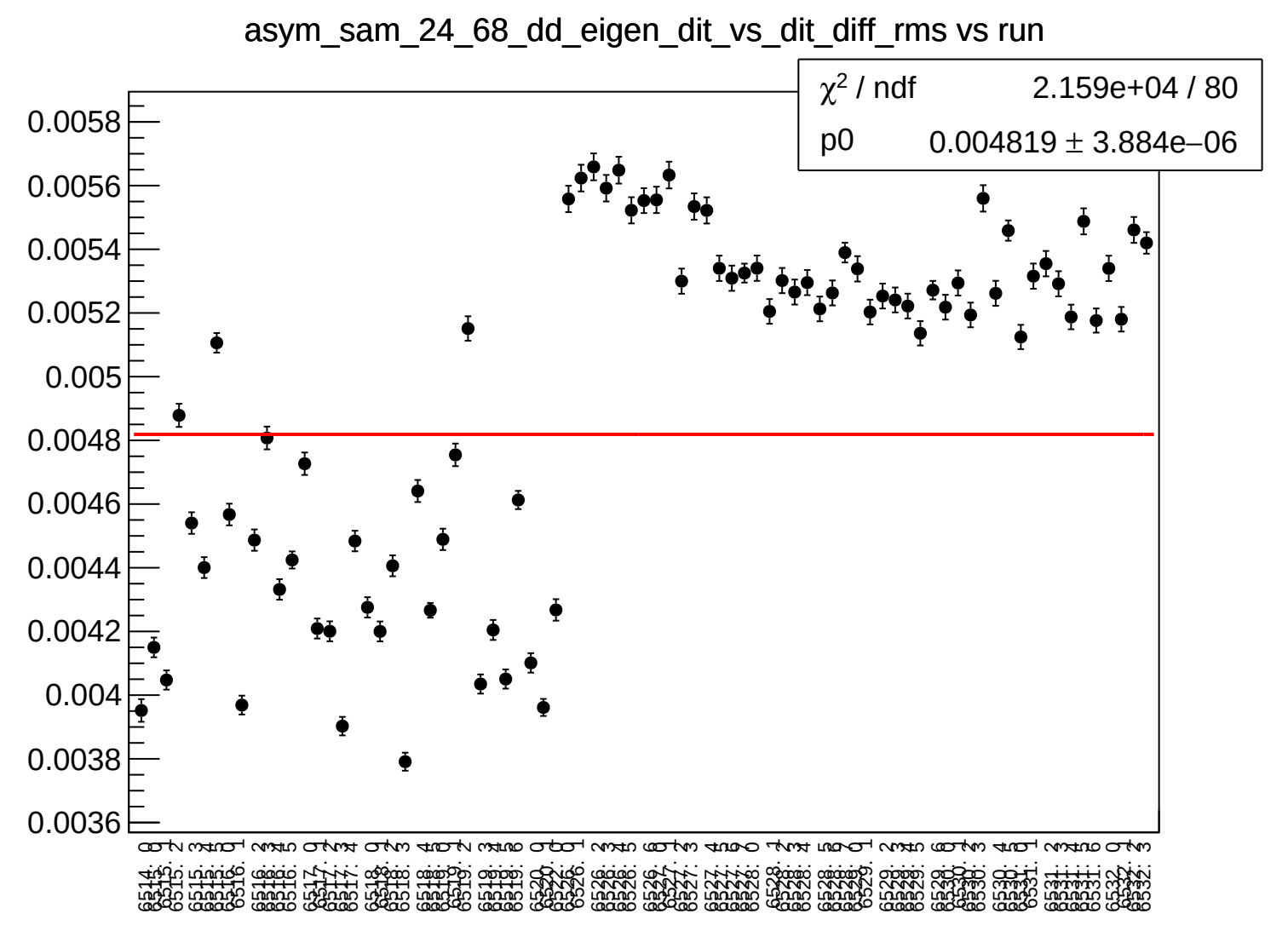

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.3 / 80
p0 −0.05591 ± 0.05913
pull
Entries 81
Mean −184.1
Std Dev 0

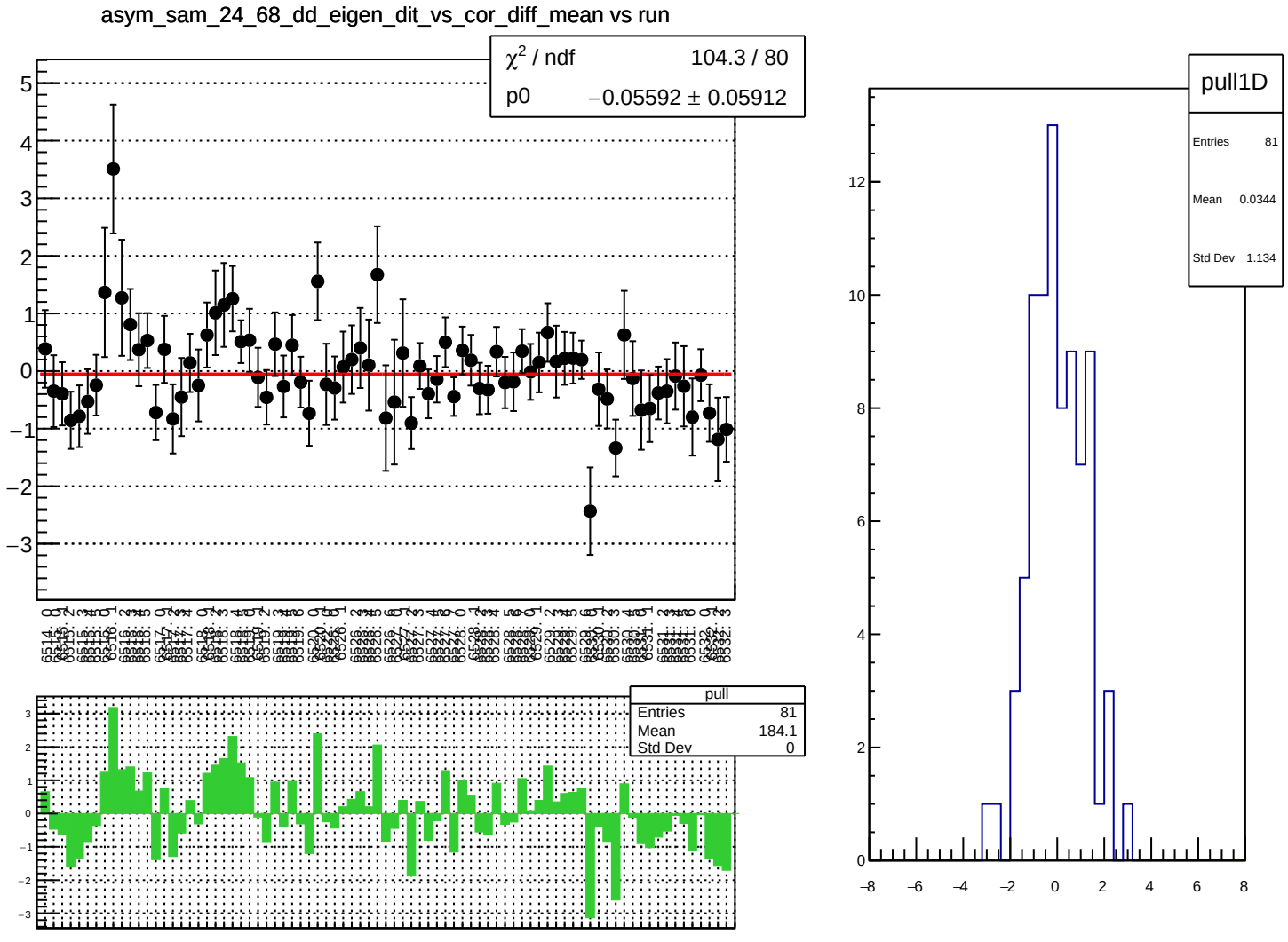

pull1D
Entries 81
Mean 0.0344
Std Dev 1.134

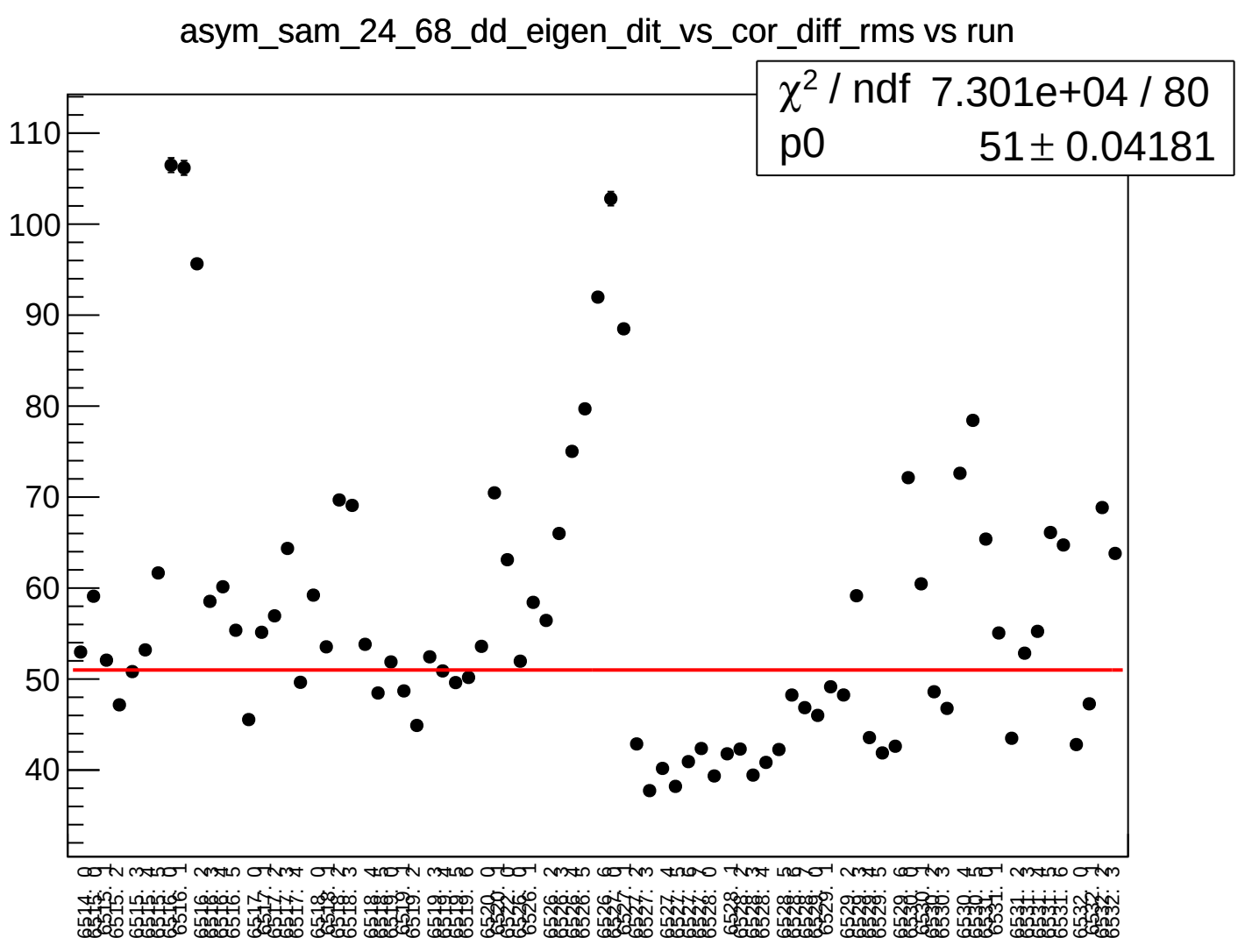

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.301e+04 / 80
p0 51 ± 0.04181
110
100
90
80
70
60
50
40

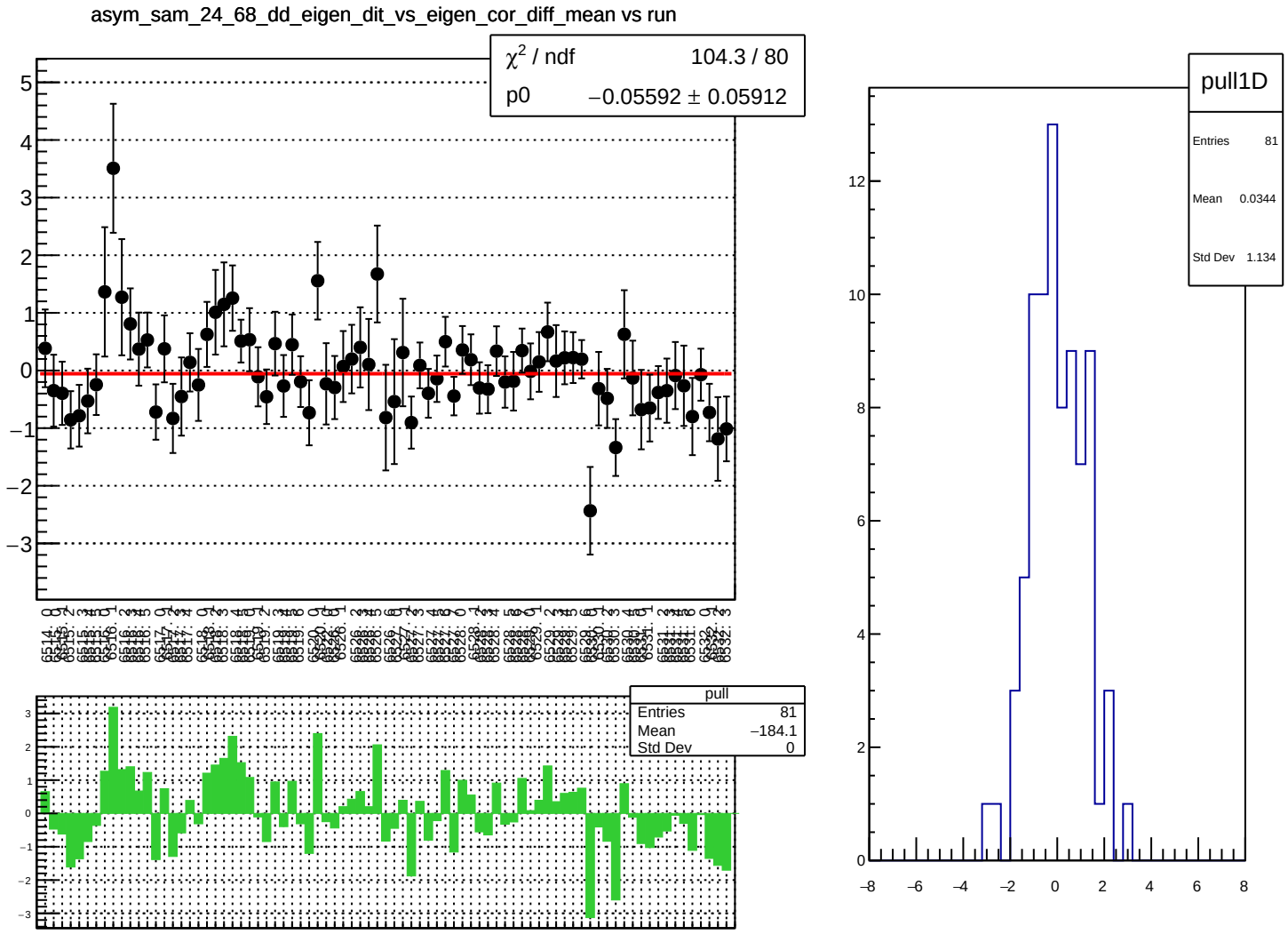

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.58 / 80
p0 −8.622e−06 ± 5.493e−06
pull
Entries 81
Mean −117.1
Std Dev 0

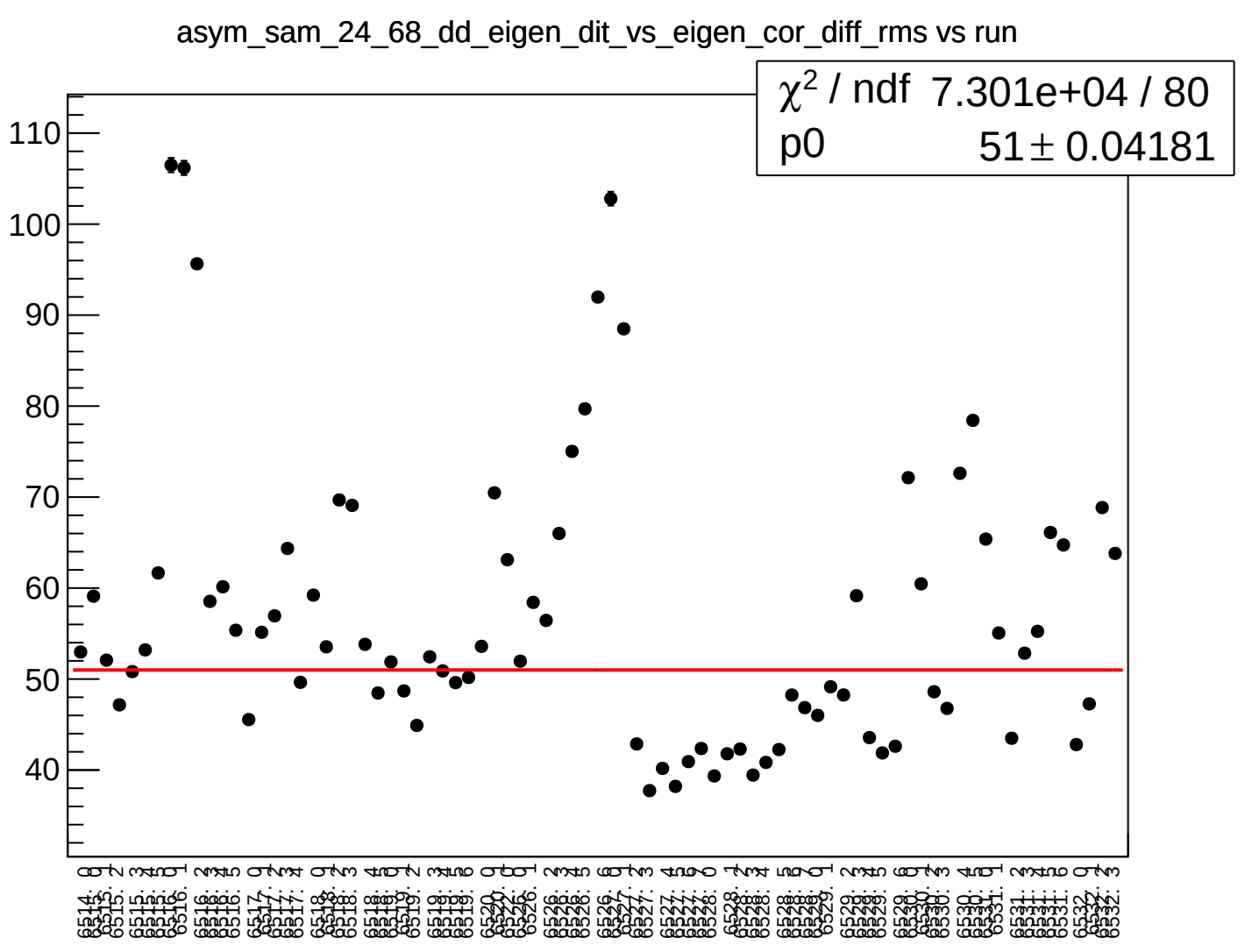

pull1D
Entries 81
Mean 0.02563
Std Dev 1.015

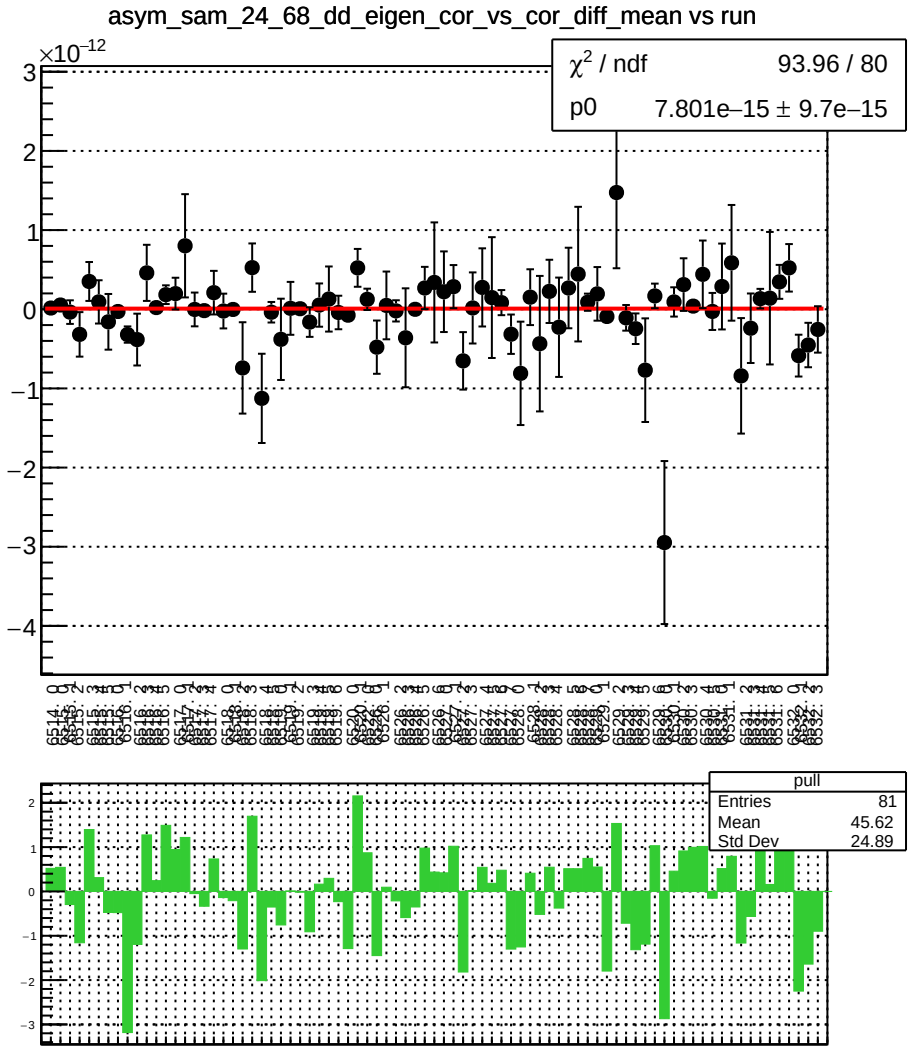

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.159e+04 / 80
p0 0.004819 ± 3.884e−06
0.0058
0.0056
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036

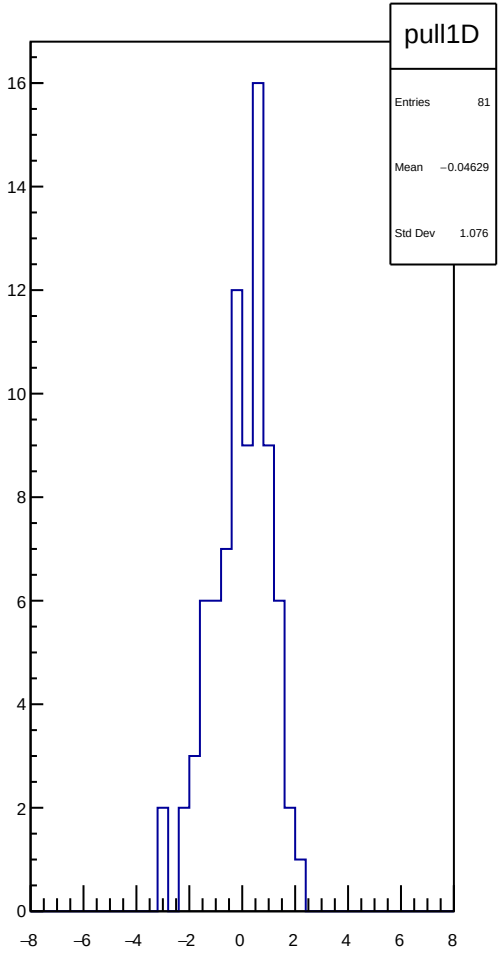

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.3 / 80
p0 −0.05592 ± 0.05912
pull
Entries 81
Mean −184.1
Std Dev 0
pull1D
Entries 81
Mean 0.0344
Std Dev 1.134

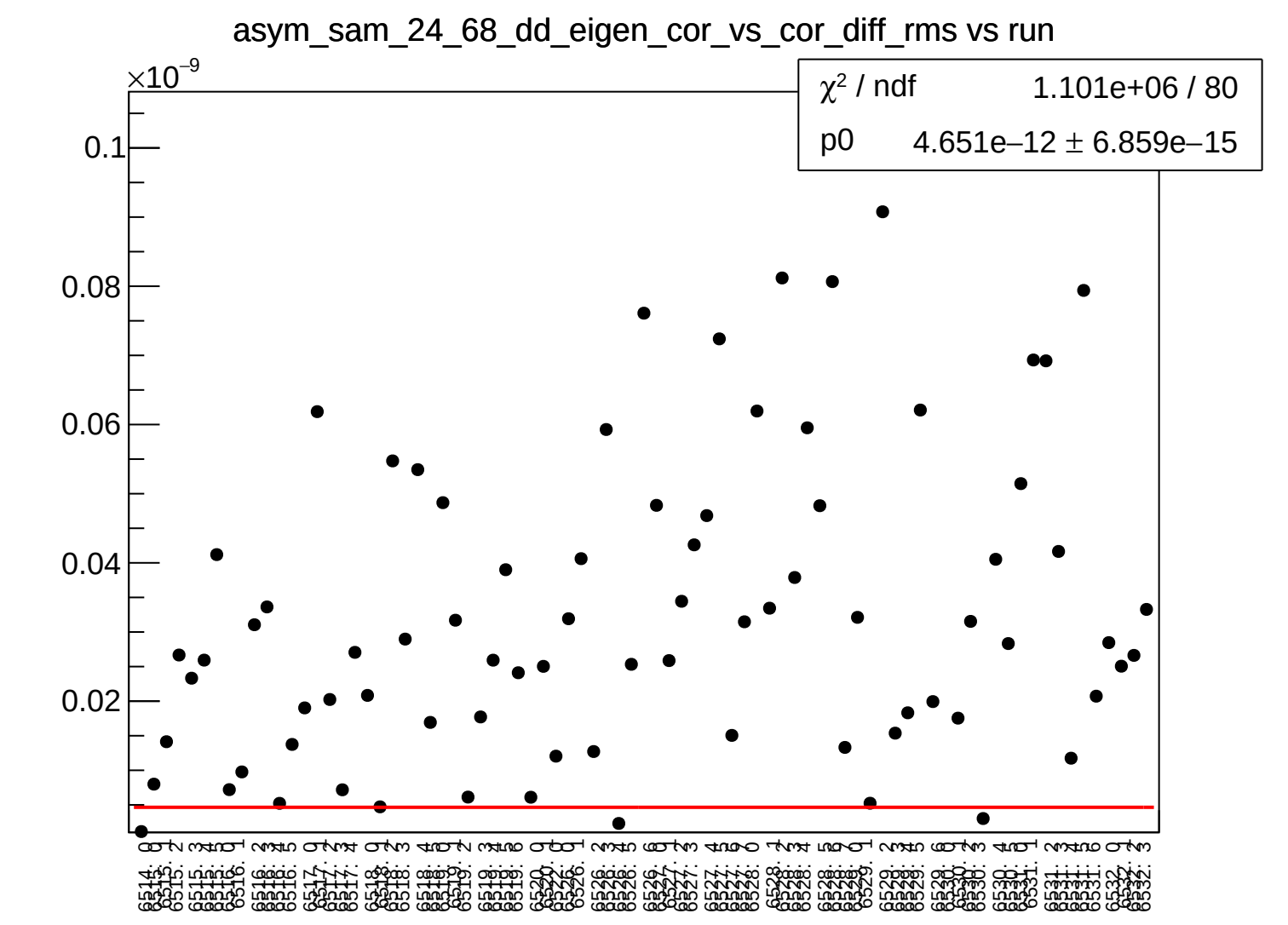

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.301e+04 / 80
p0 51 ± 0.04181
110
100
90
80
70
60
50
40

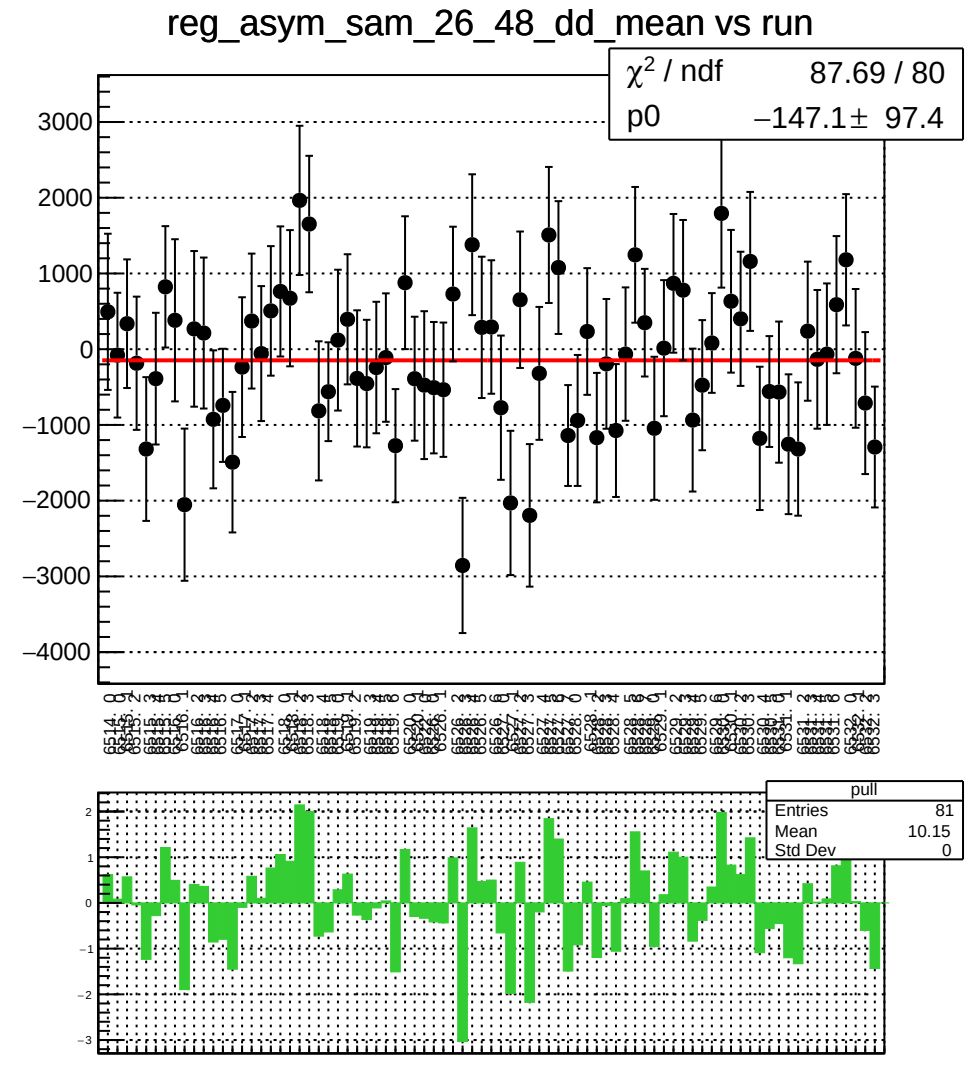

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.3 / 80
p0 −0.05592 ± 0.05912
pull
Entries 81
Mean −184.1
Std Dev 0
pull1D
Entries 81
Mean 0.0344
Std Dev 1.134

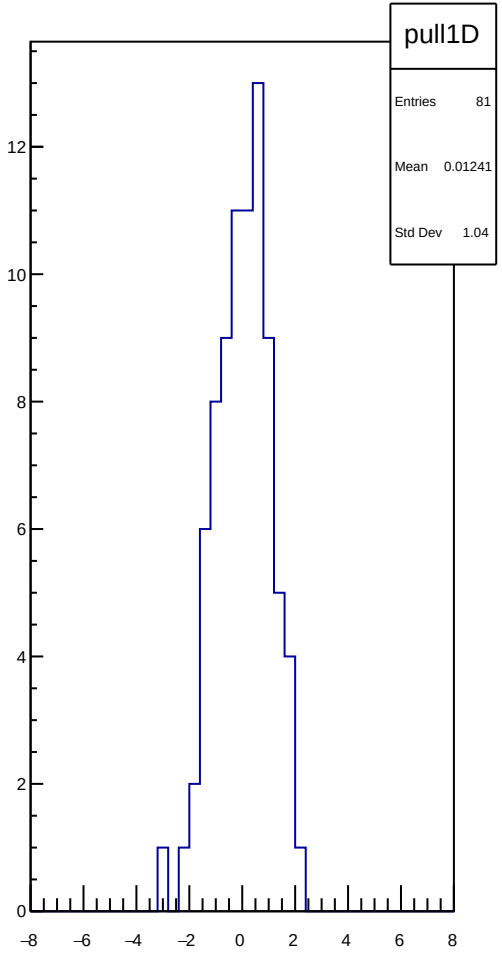

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.301e+04 / 80
p0 51 ± 0.04181
110
100
90
80
70
60
50
40

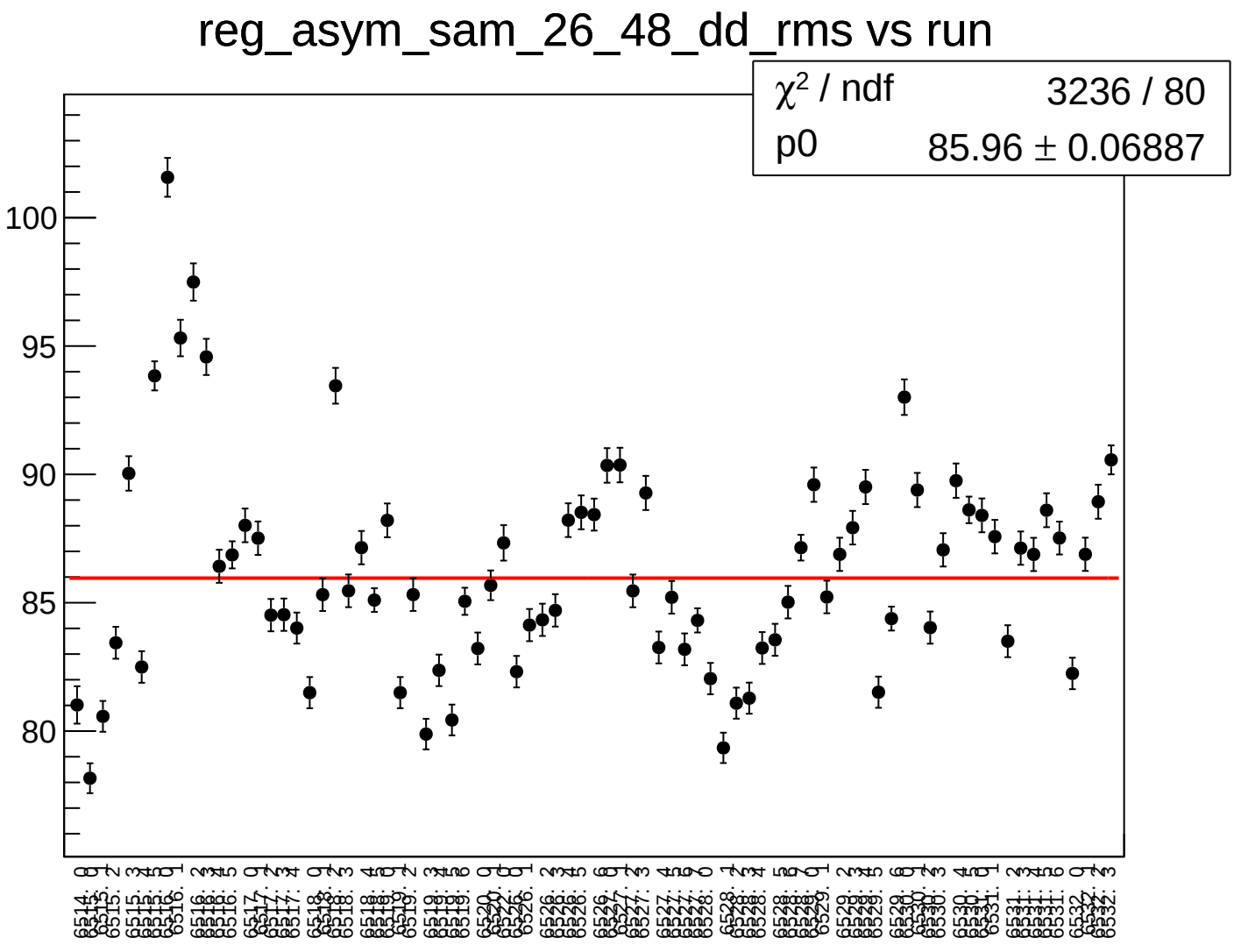

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.96 / 80
p0 7.801e−15 ± 9.7e−15
pull
Entries 81
Mean 45.62
Std Dev 24.89

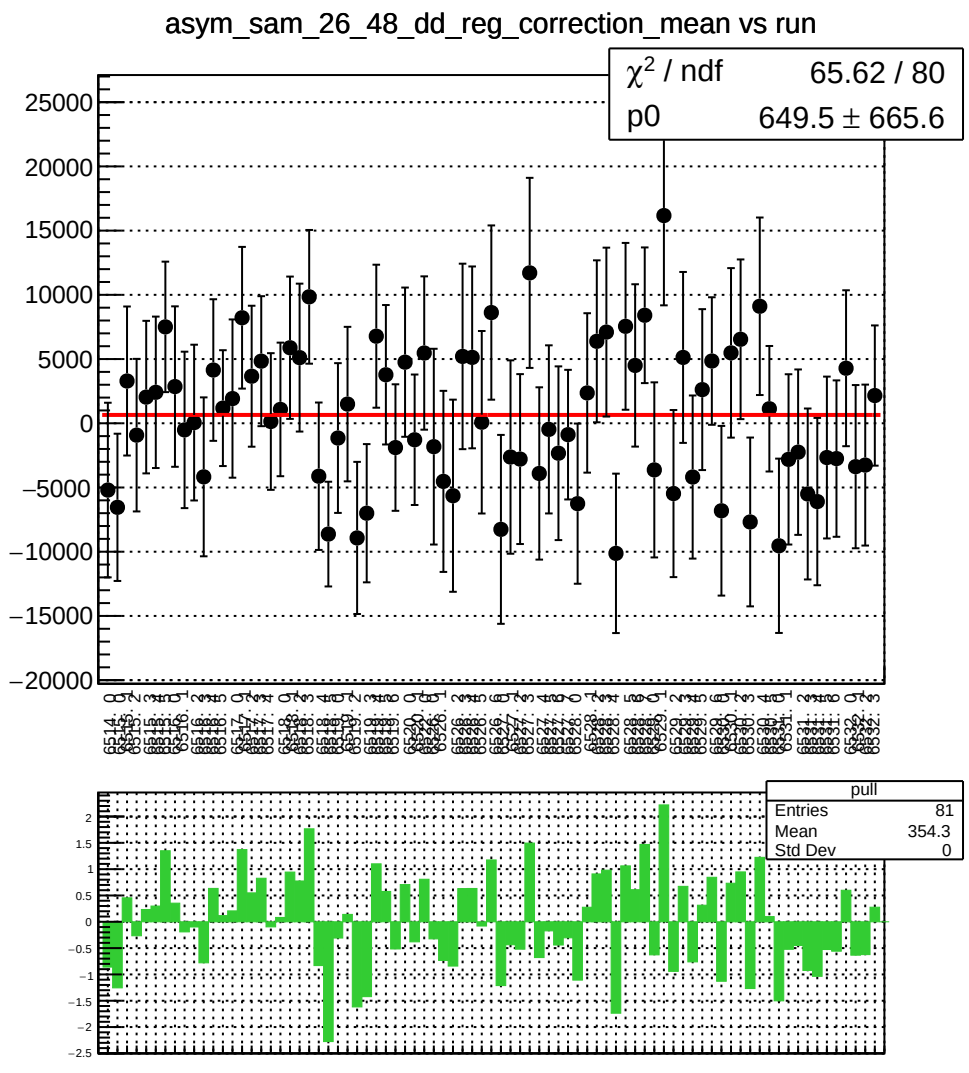

pull1D
Entries 81
Mean −0.04629
Std Dev 1.076

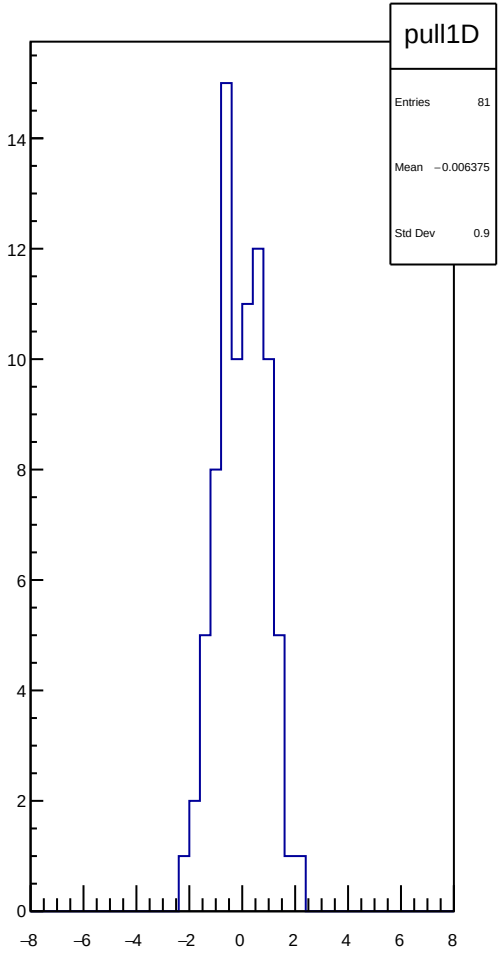

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.101e+06 / 80
p0 4.651e−12 ± 6.859e−15
0.1
0.08
0.06
0.04
0.02

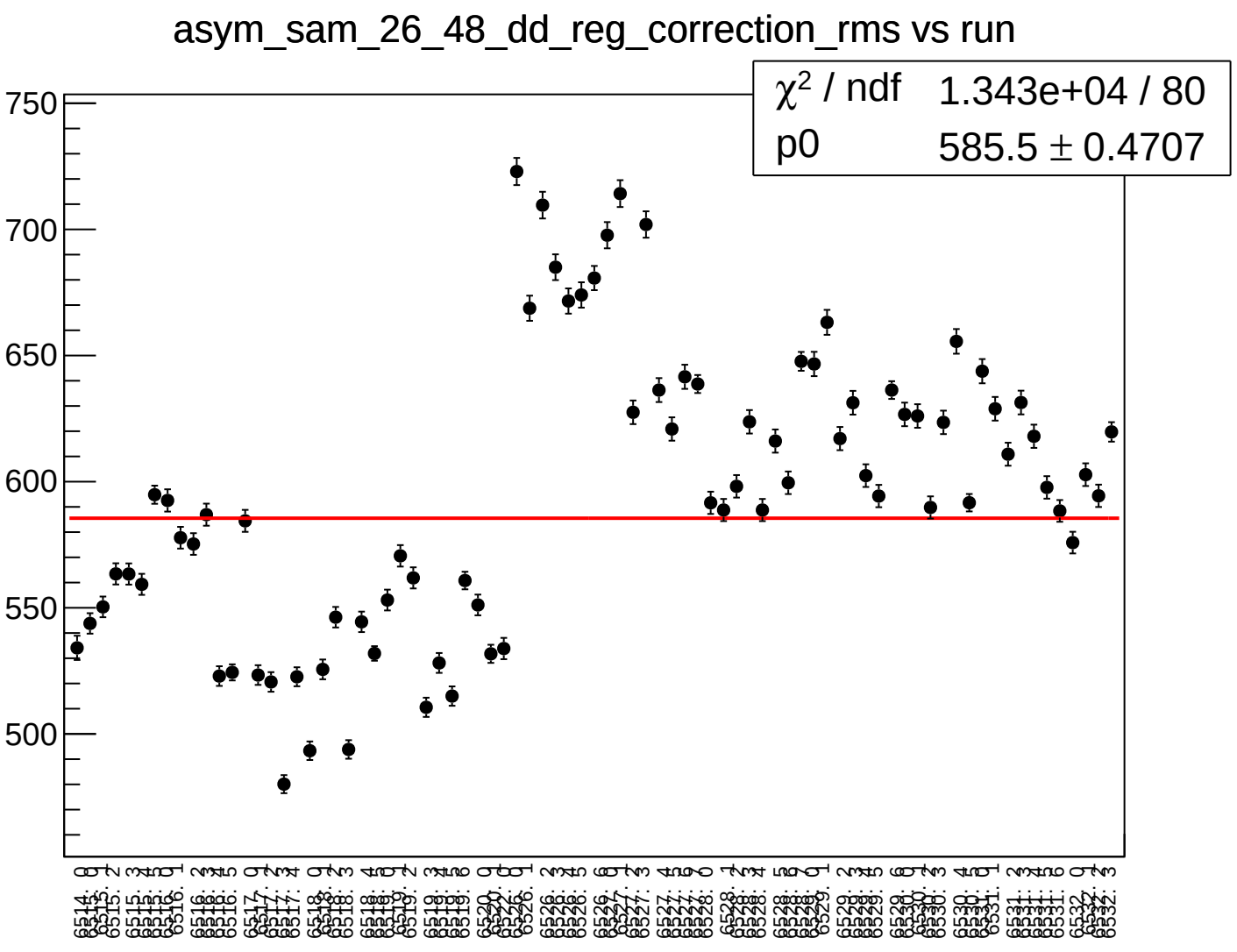

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 87.69 / 80
p0 −147.1± 97.4
pull
Entries 81
Mean 10.15
Std Dev 0

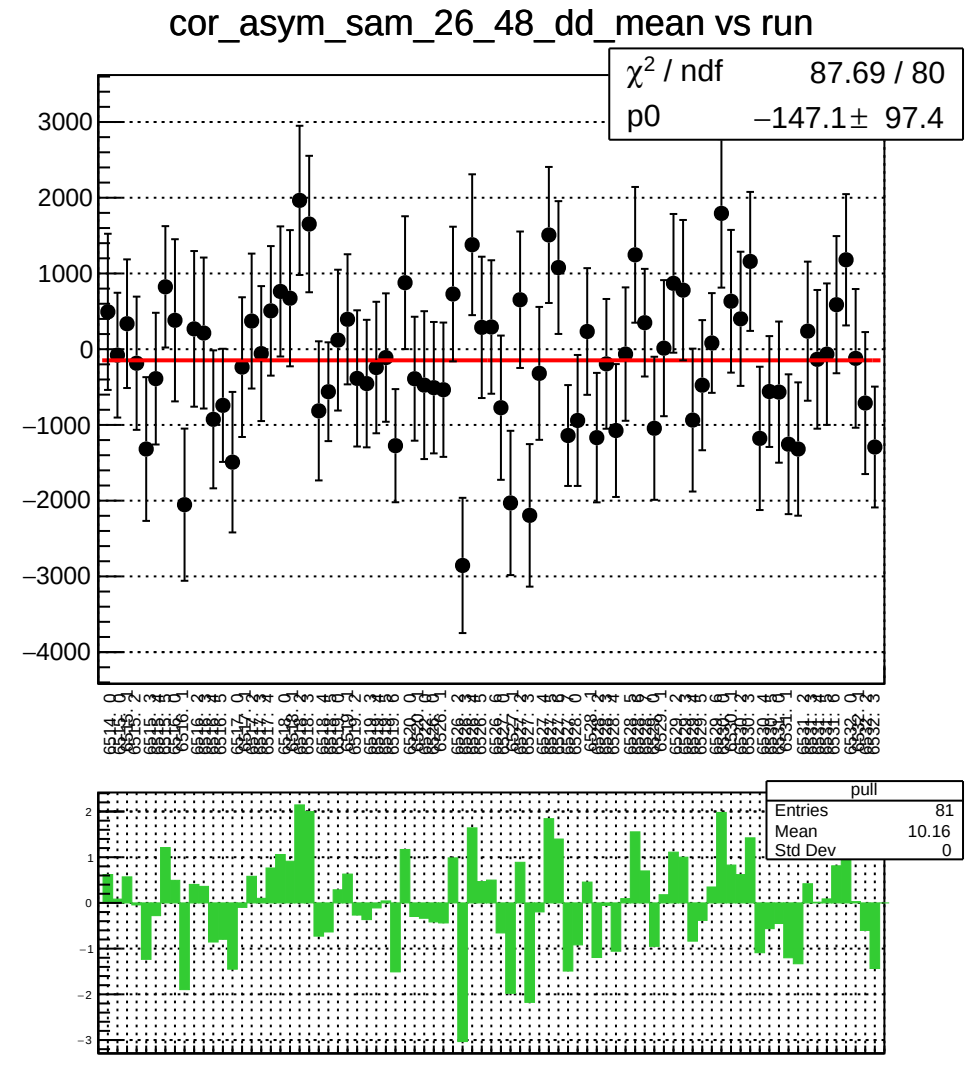

pull1D
Entries 81
Mean 0.01241
Std Dev 1.04

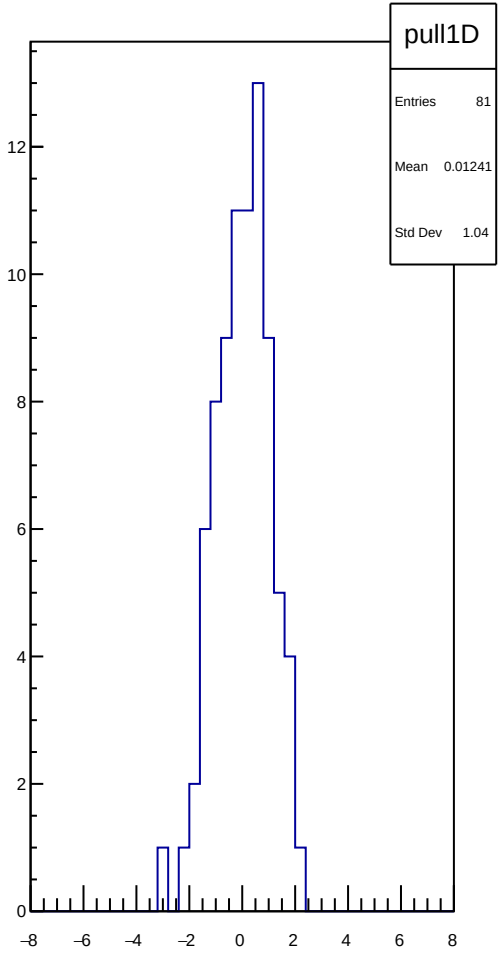

reg_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 3236 / 80
p0 85.96 ± 0.06887
100
95
90
85
80

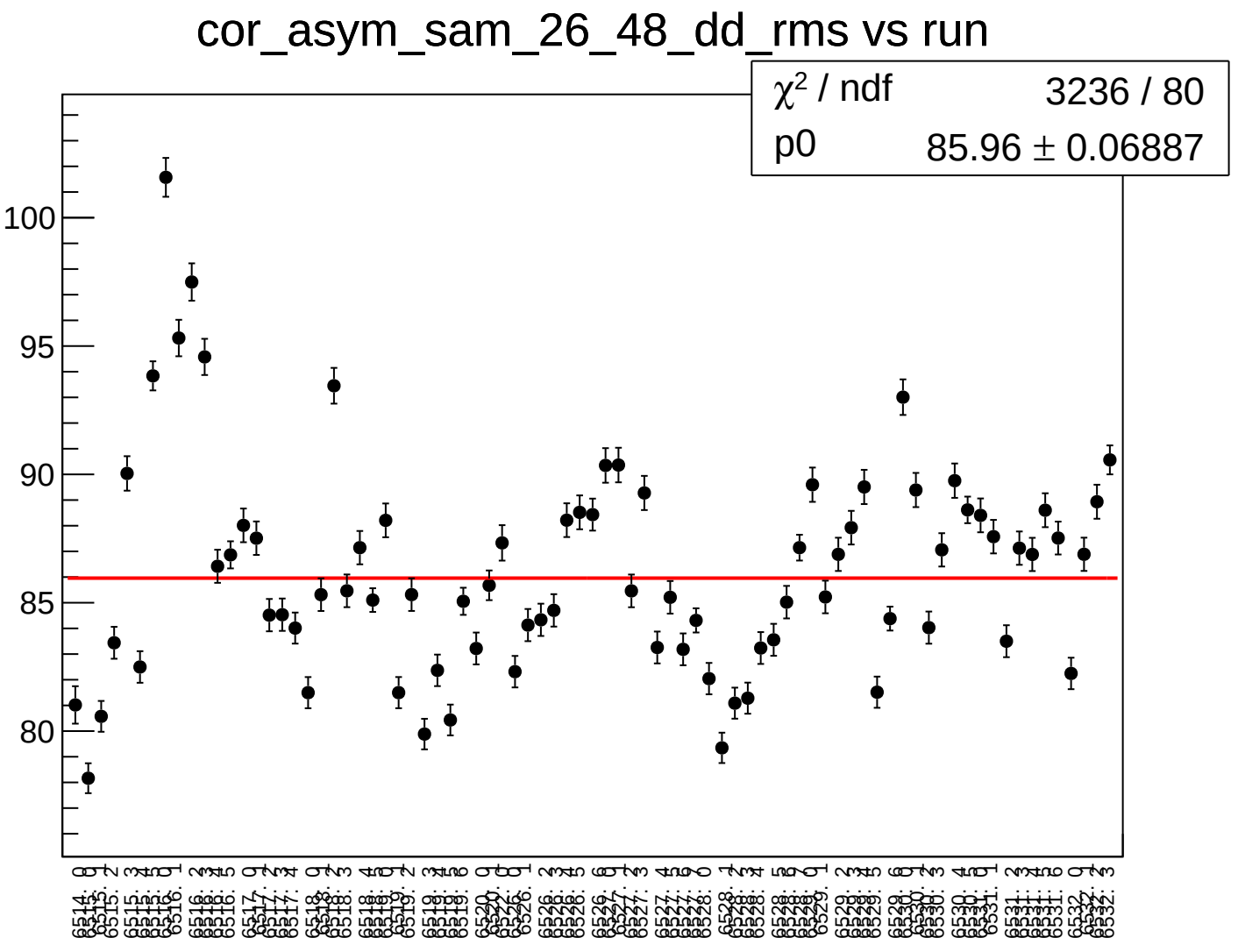

asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 65.62 / 80
p0 649.5 ± 665.6
pull
Entries 81
Mean 354.3
Std Dev 0

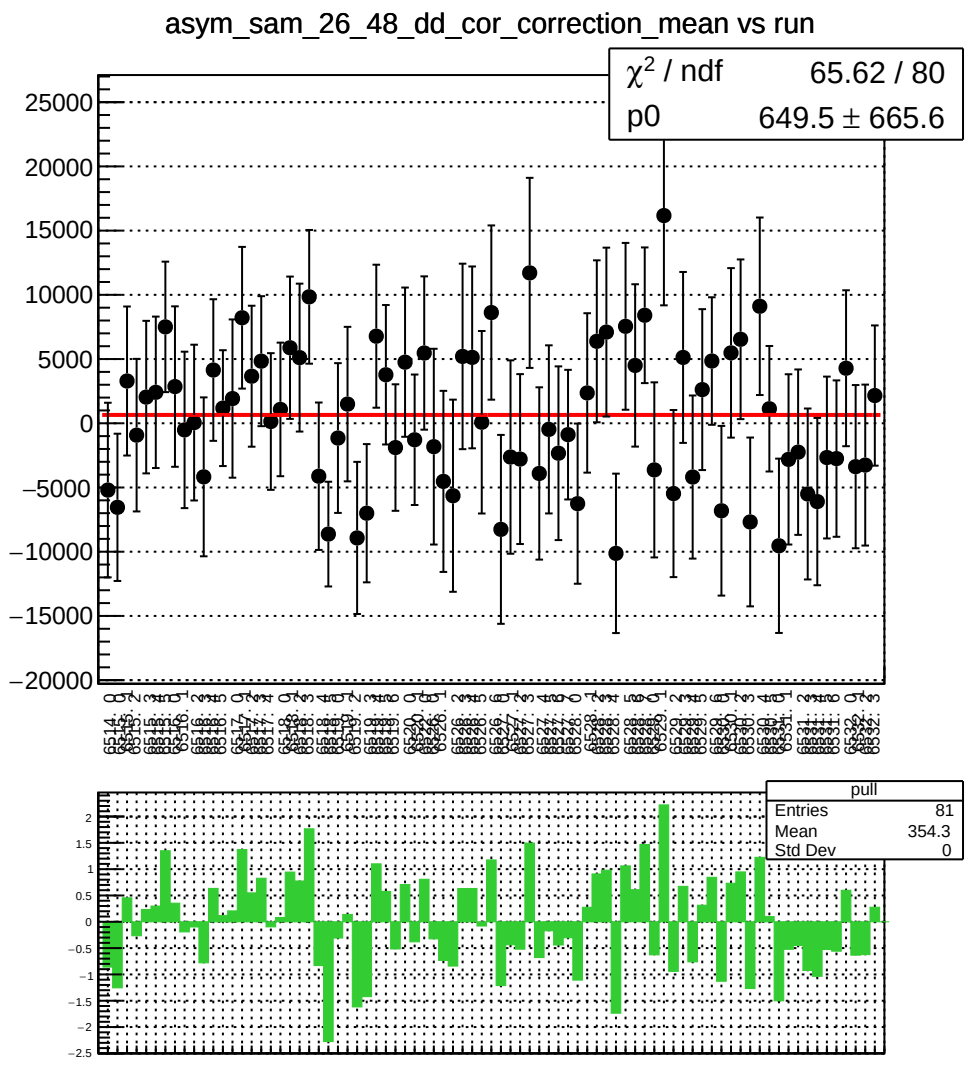

pull1D
Entries 81
Mean −0.006375
Std Dev 0.9

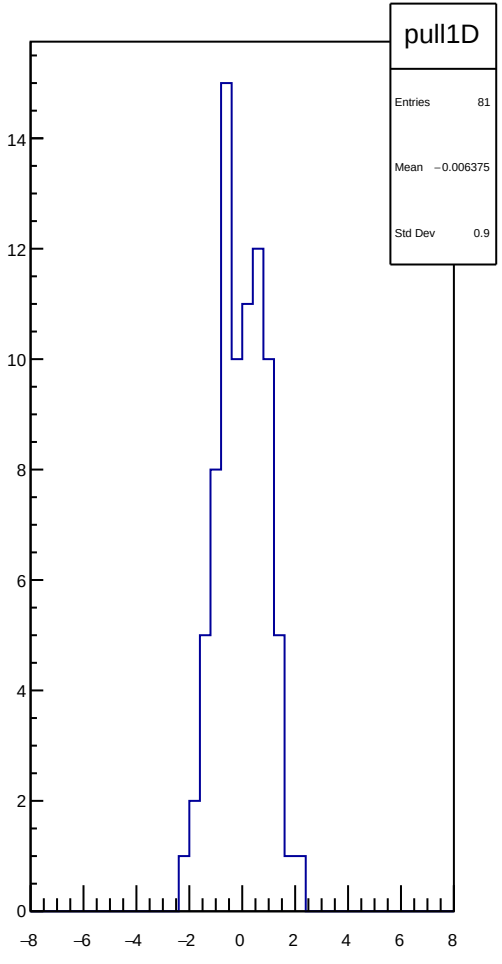

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 1.343e+04 / 80
p0 585.5 ± 0.4707
750
700
650
600
550
500

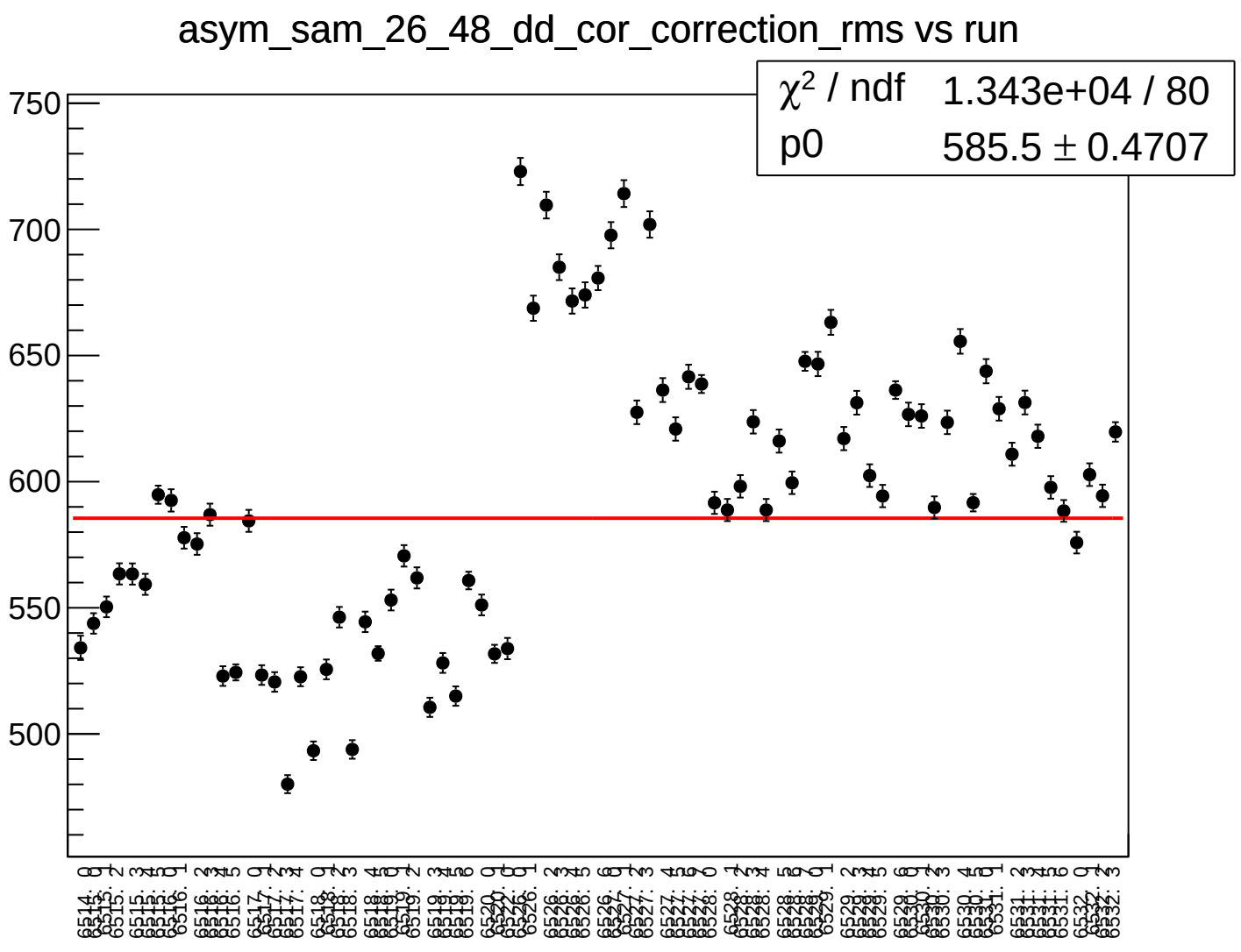

cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 87.69 / 80
p0 −147.1± 97.4
pull
Entries 81
Mean 10.16
Std Dev 0

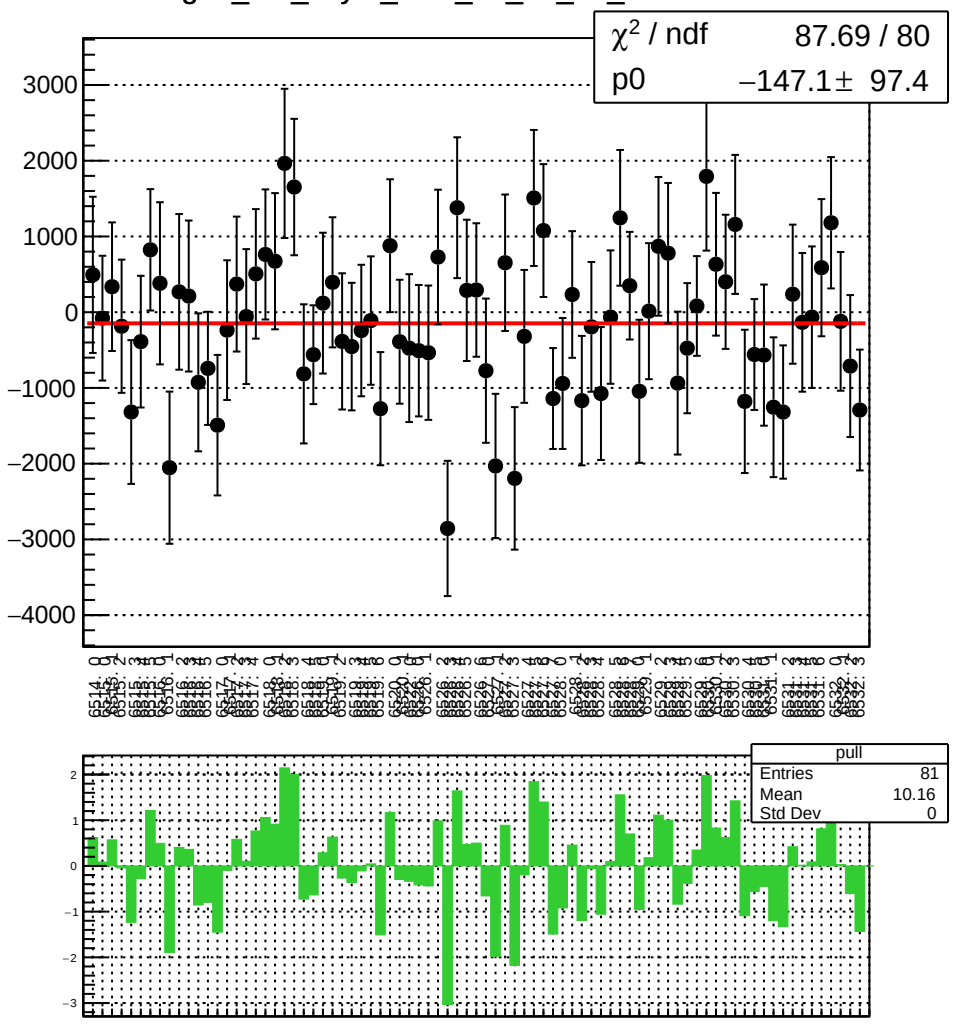

pull1D
Entries 81
Mean 0.01241
Std Dev 1.04

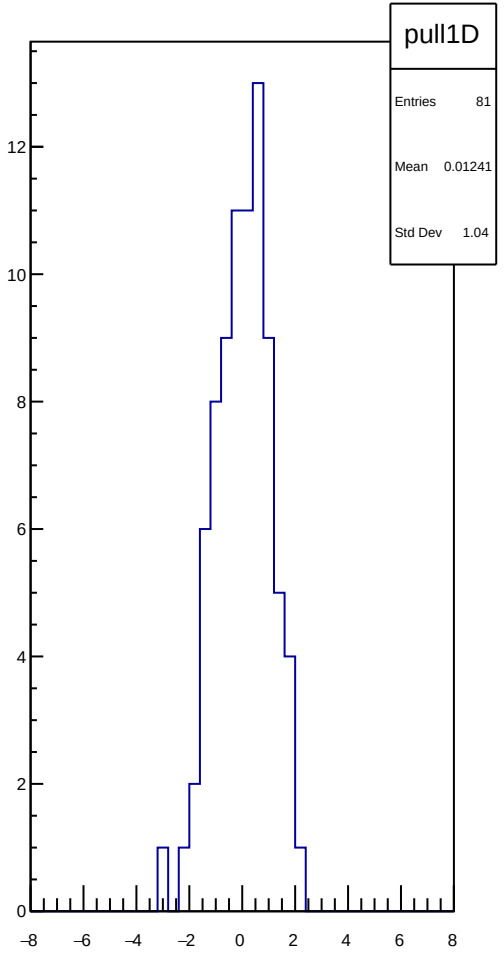

cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 3236 / 80
p0 85.96 ± 0.06887
100
95
90
85
80

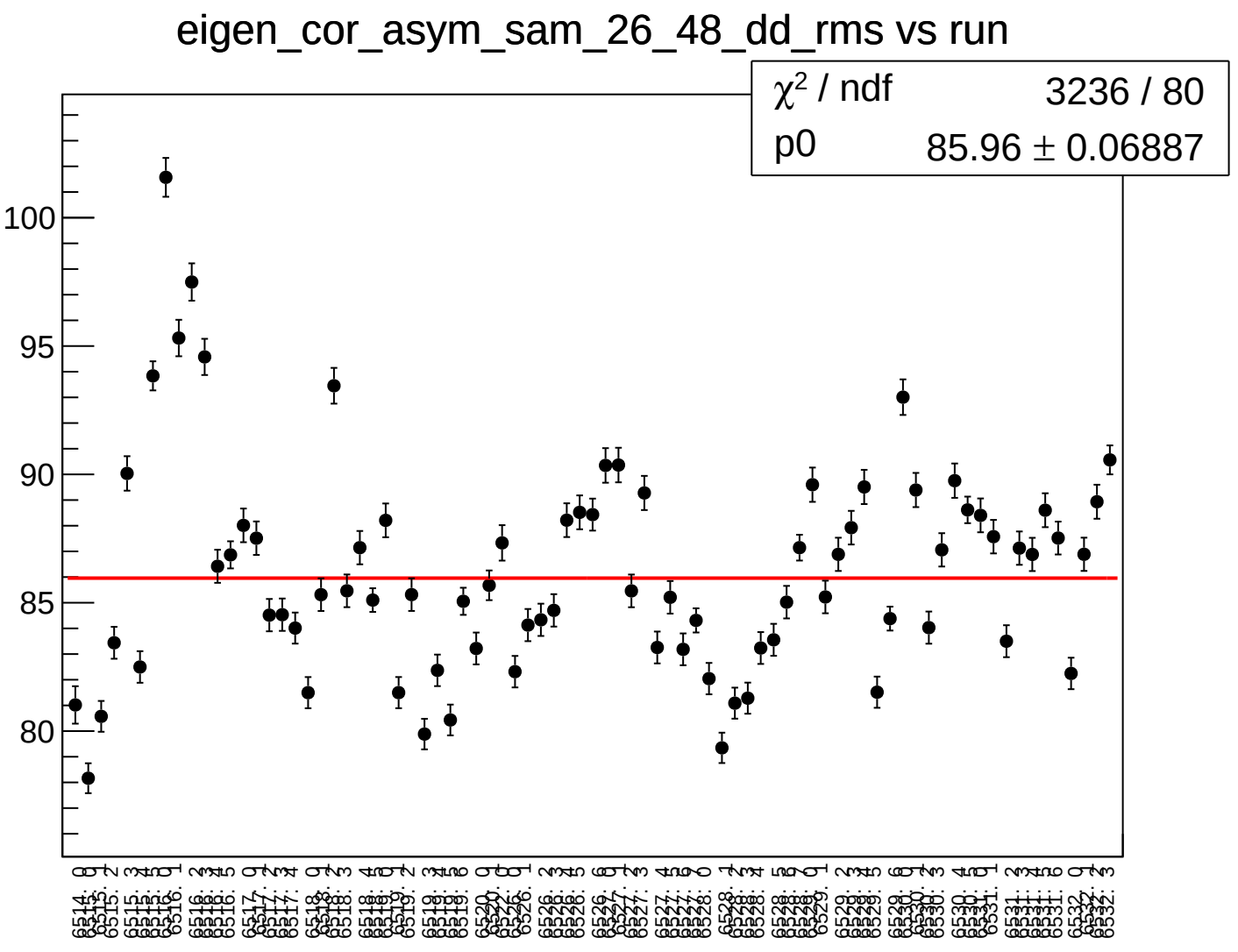

asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 65.62 / 80
p0 649.5 ± 665.6
pull
Entries 81
Mean 354.3
Std Dev 0

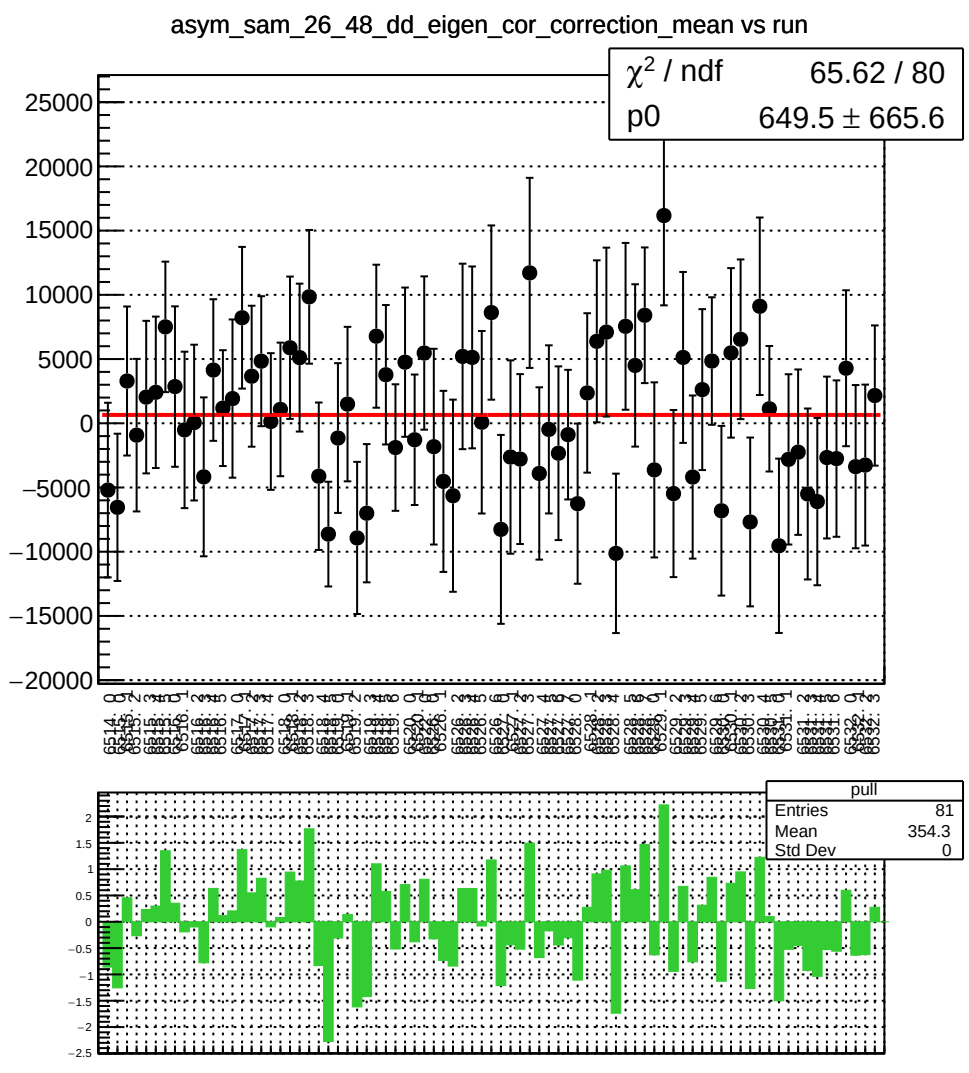

pull1D
Entries 81
Mean −0.006375
Std Dev 0.9

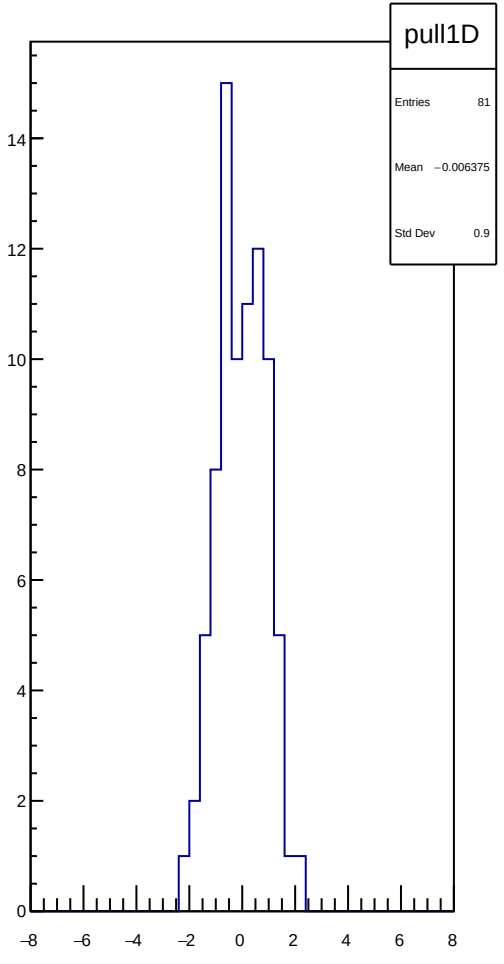

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 1.343e+04 / 80
p0 585.5 ± 0.4707
750
700
650
600
550
500

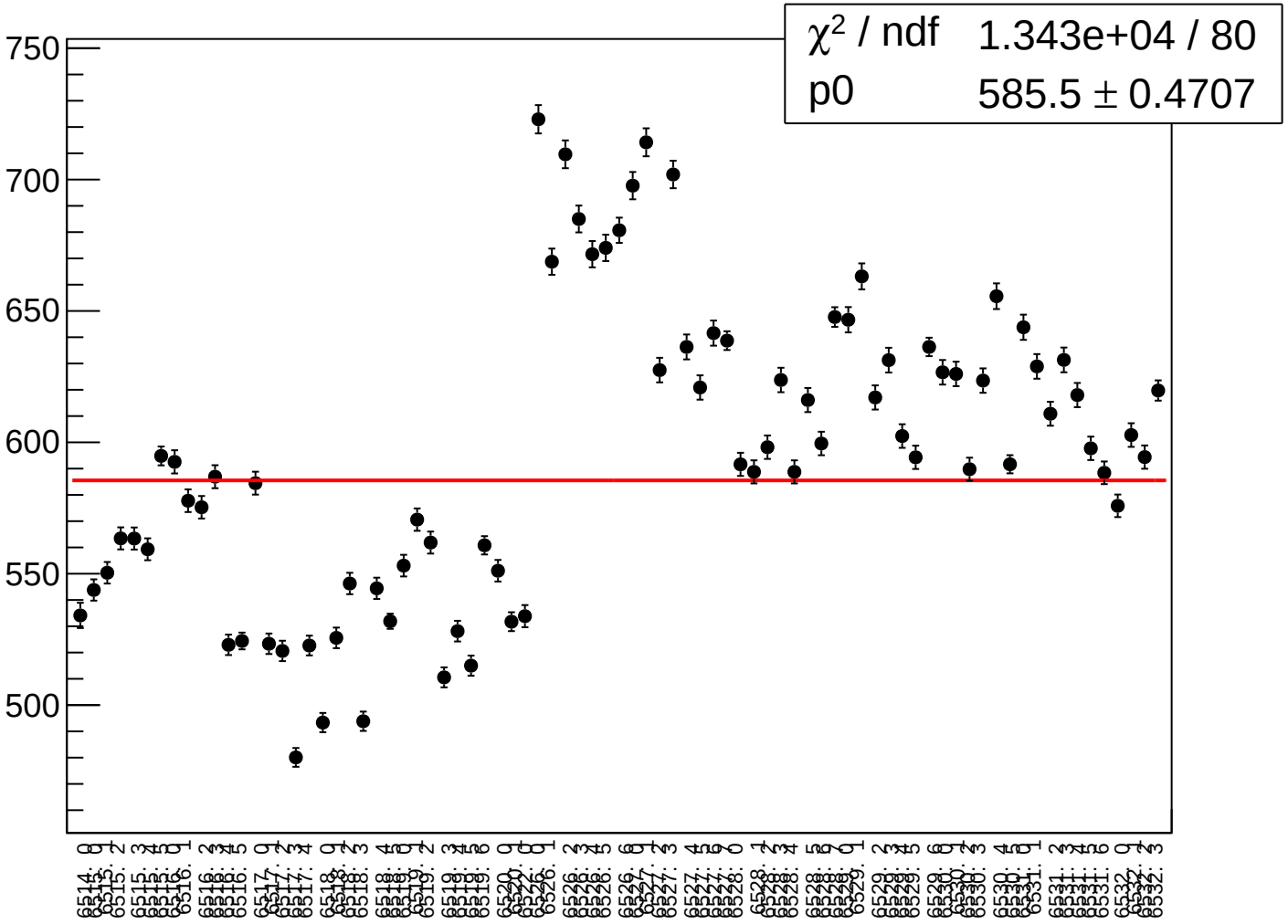

eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 87.69 / 80
p0 −147.1± 97.4
pull
Entries 81
Mean 10.16
Std Dev 0

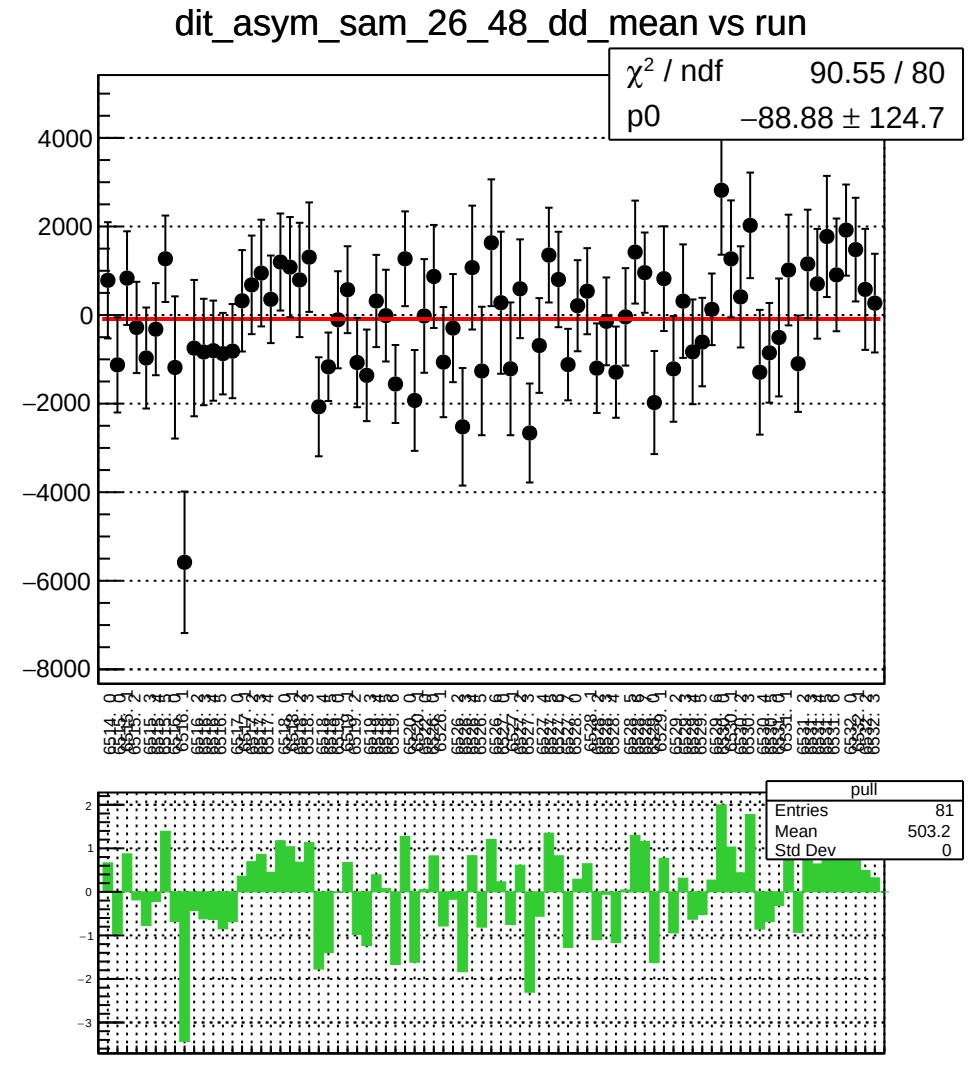

pull1D
Entries 81
Mean 0.01241
Std Dev 1.04

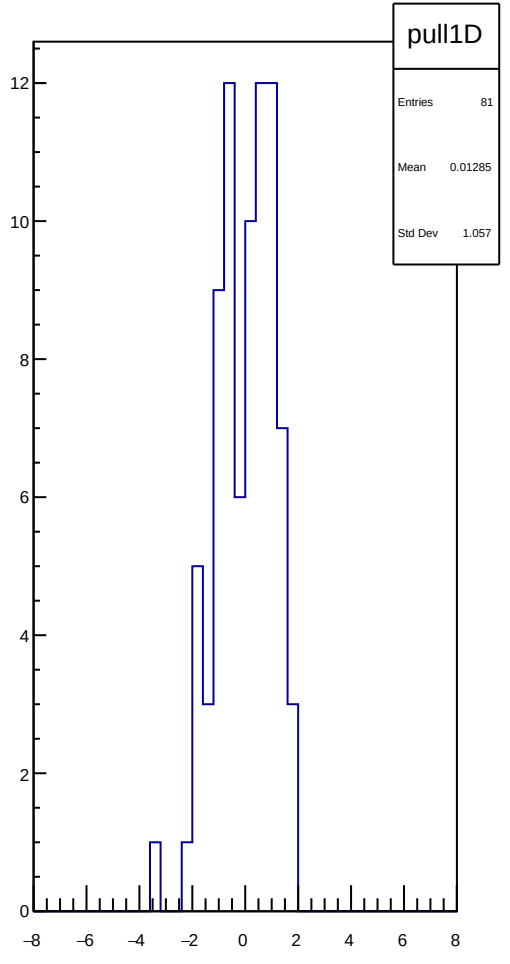

eigen_cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 3236 / 80
p0 85.96 ± 0.06887
100
95
90
85
80

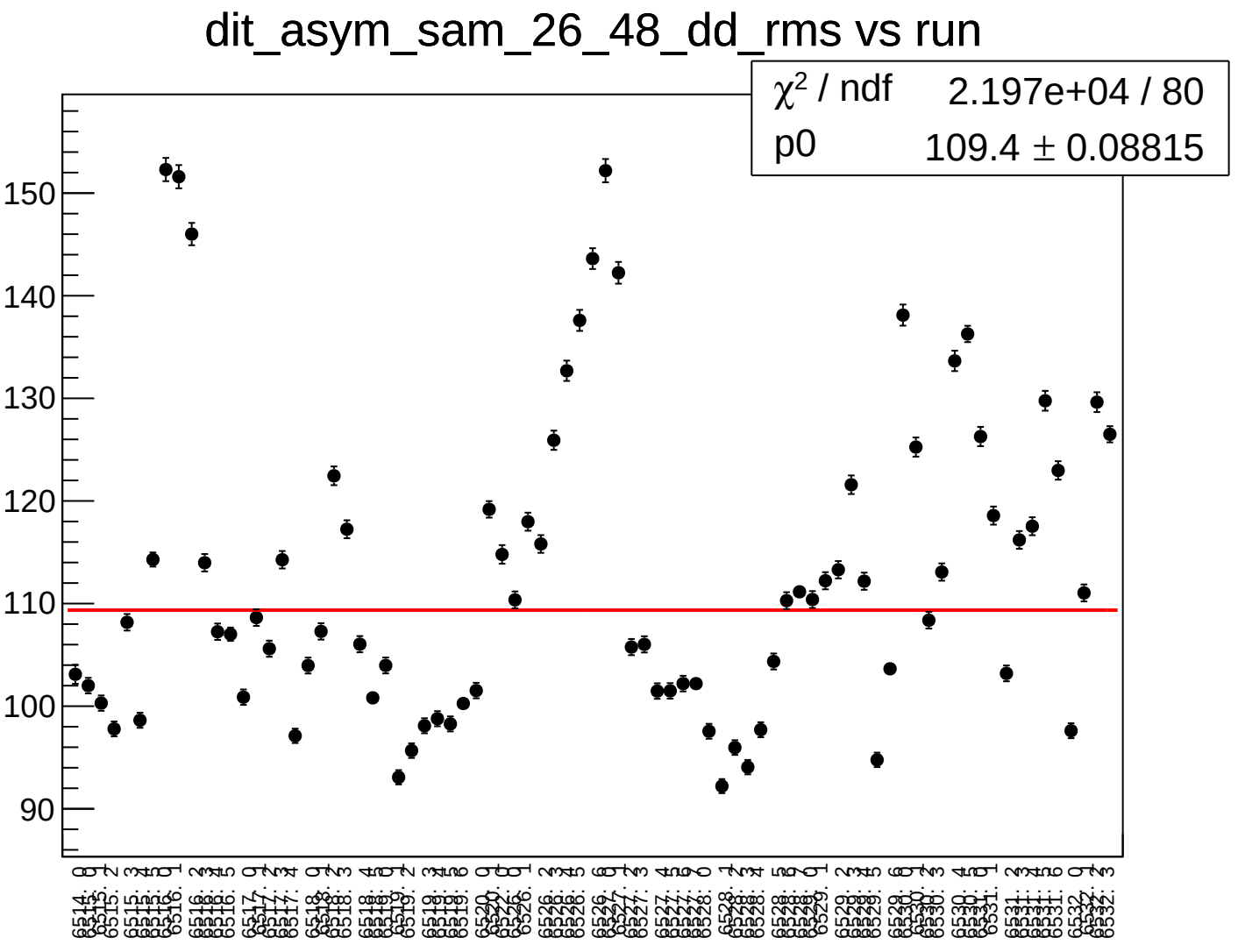

asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 65.62 / 80
p0 649.5 ± 665.6
pull
Entries 81
Mean 354.3
Std Dev 0

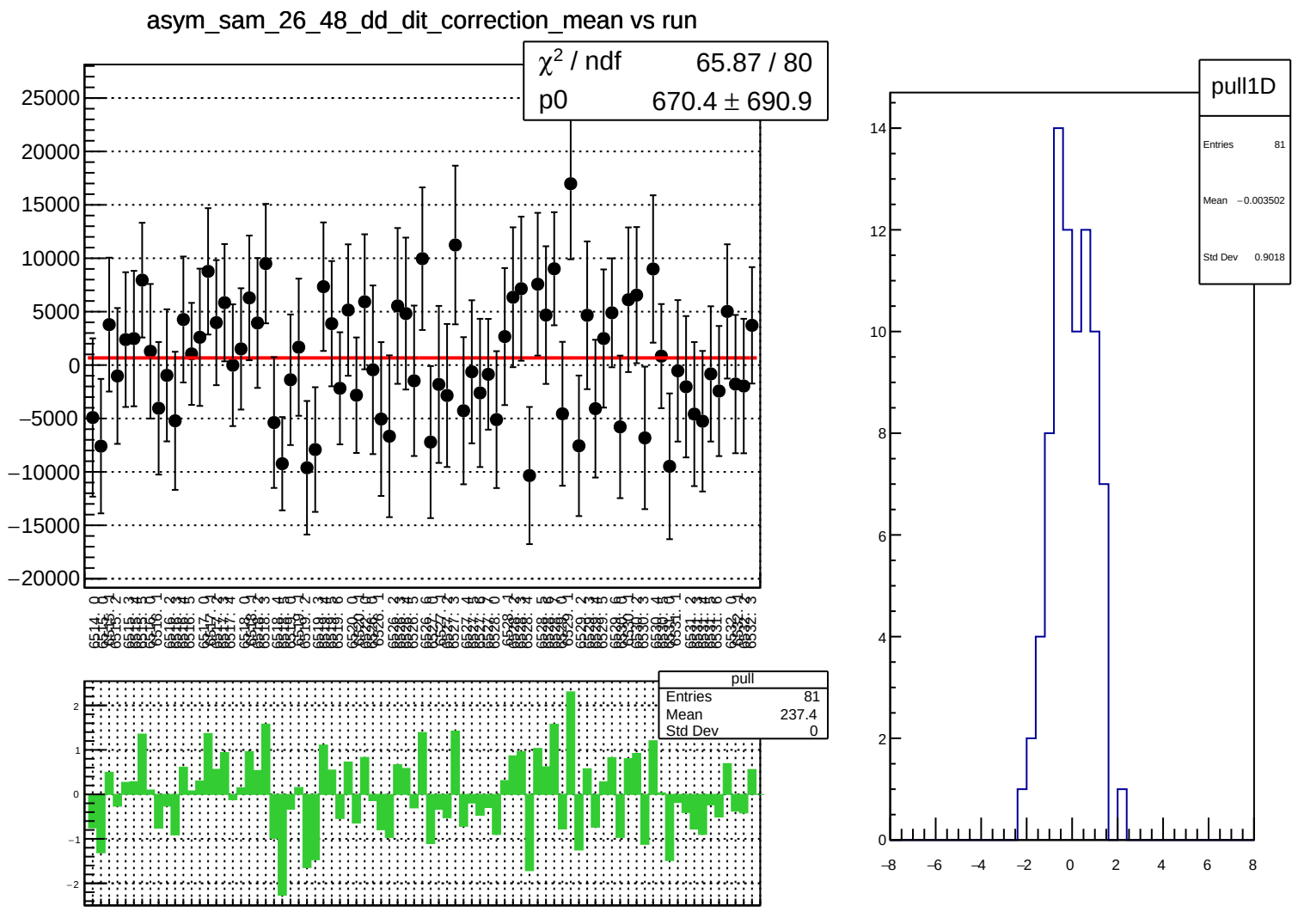

pull1D
Entries 81
Mean −0.006375
Std Dev 0.9

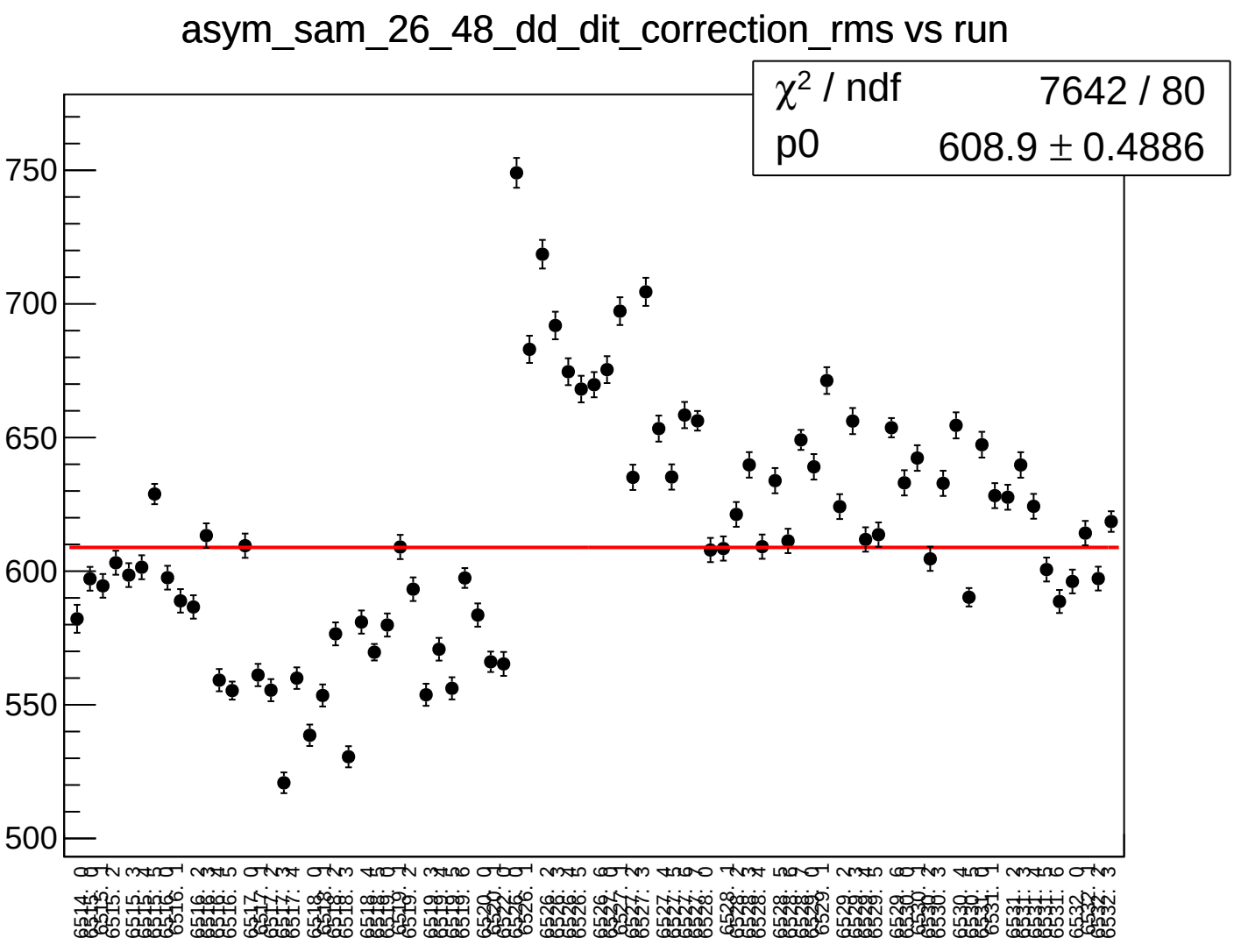

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.343e+04 / 80
p0 585.5 ± 0.4707
750
700
650
600
550
500

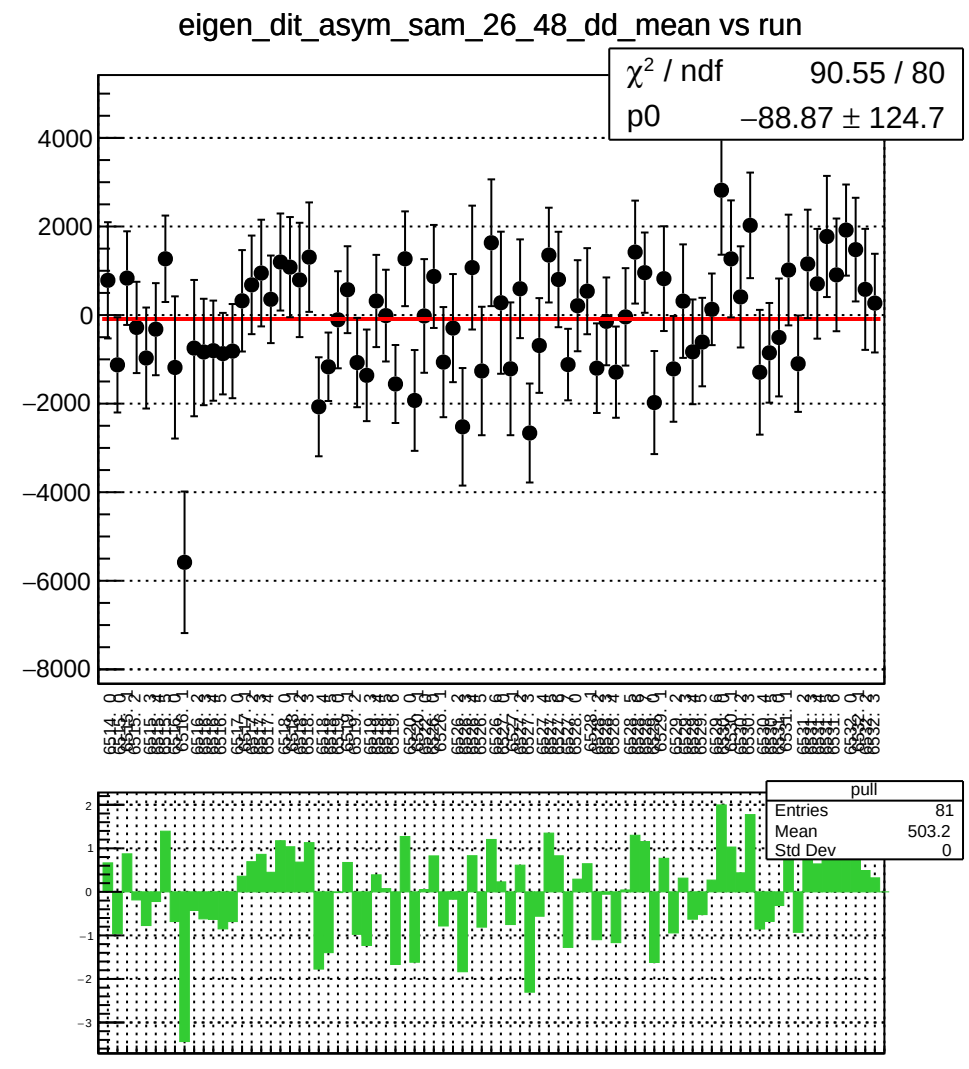

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 90.55 / 80
p0 −88.88 ± 124.7
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 81
Mean 503.2
Std Dev 0
2
1
0
−1
−2
−3

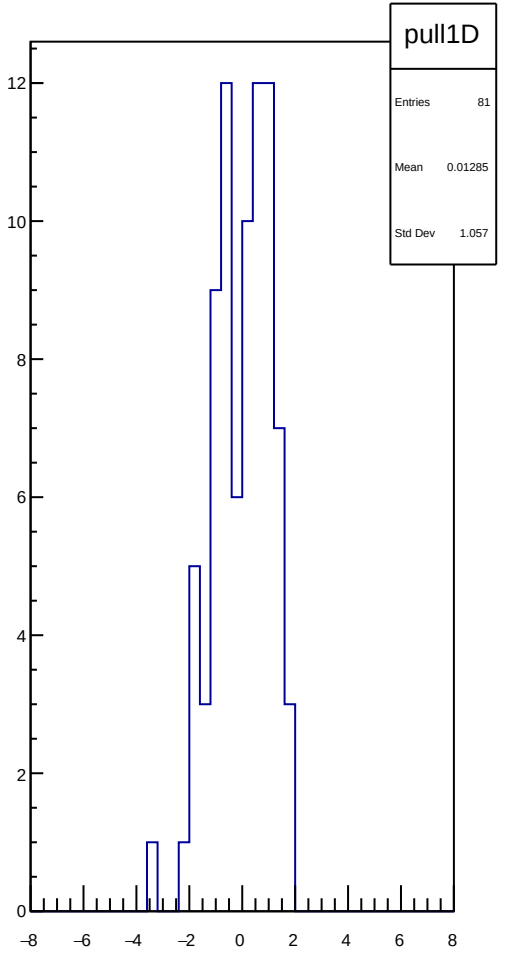

pull1D
Entries 81
Mean 0.01285
Std Dev 1.057
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

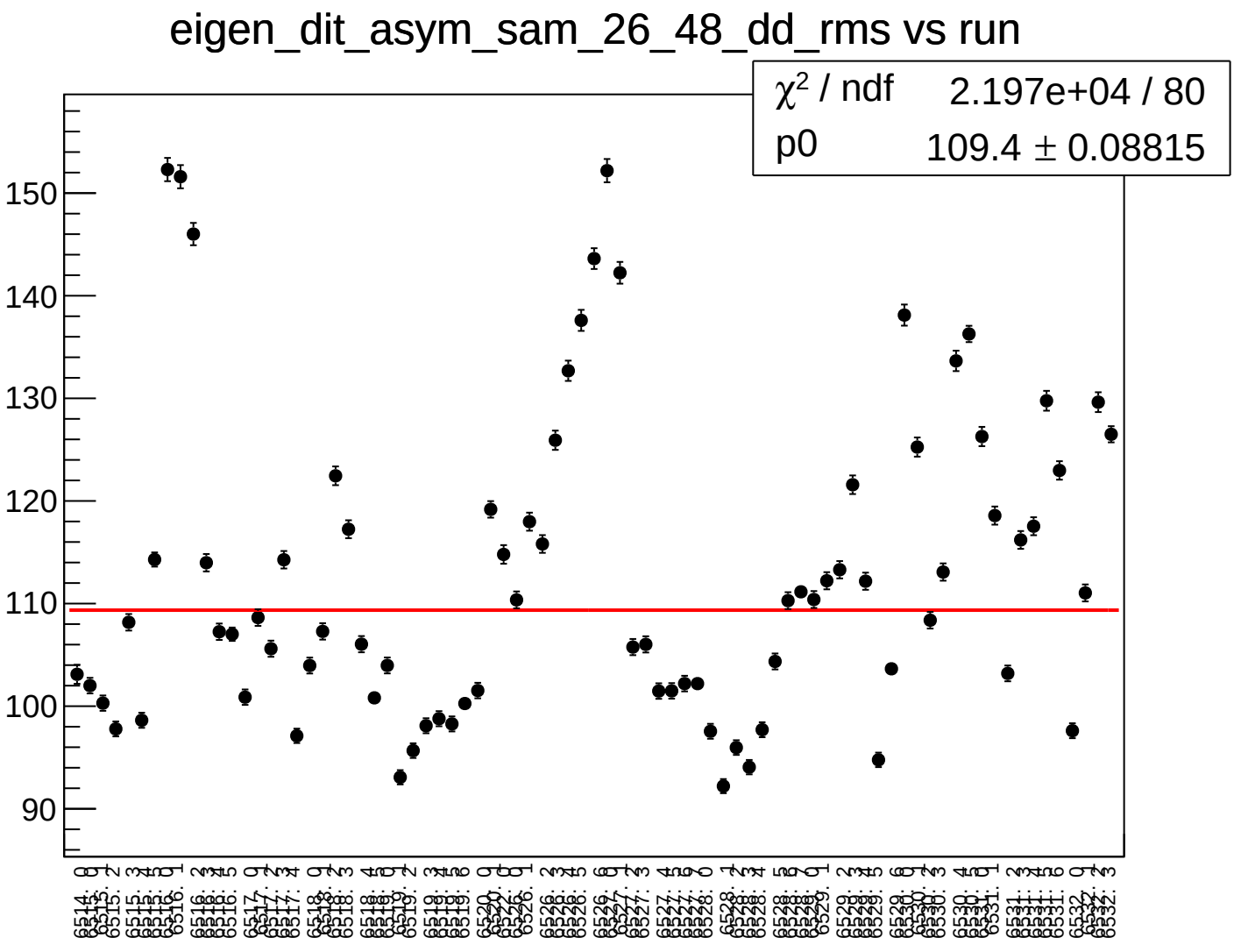

dit_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 2.197e+04 / 80
p0 109.4 ± 0.08815
150
140
130
120
110
100
90

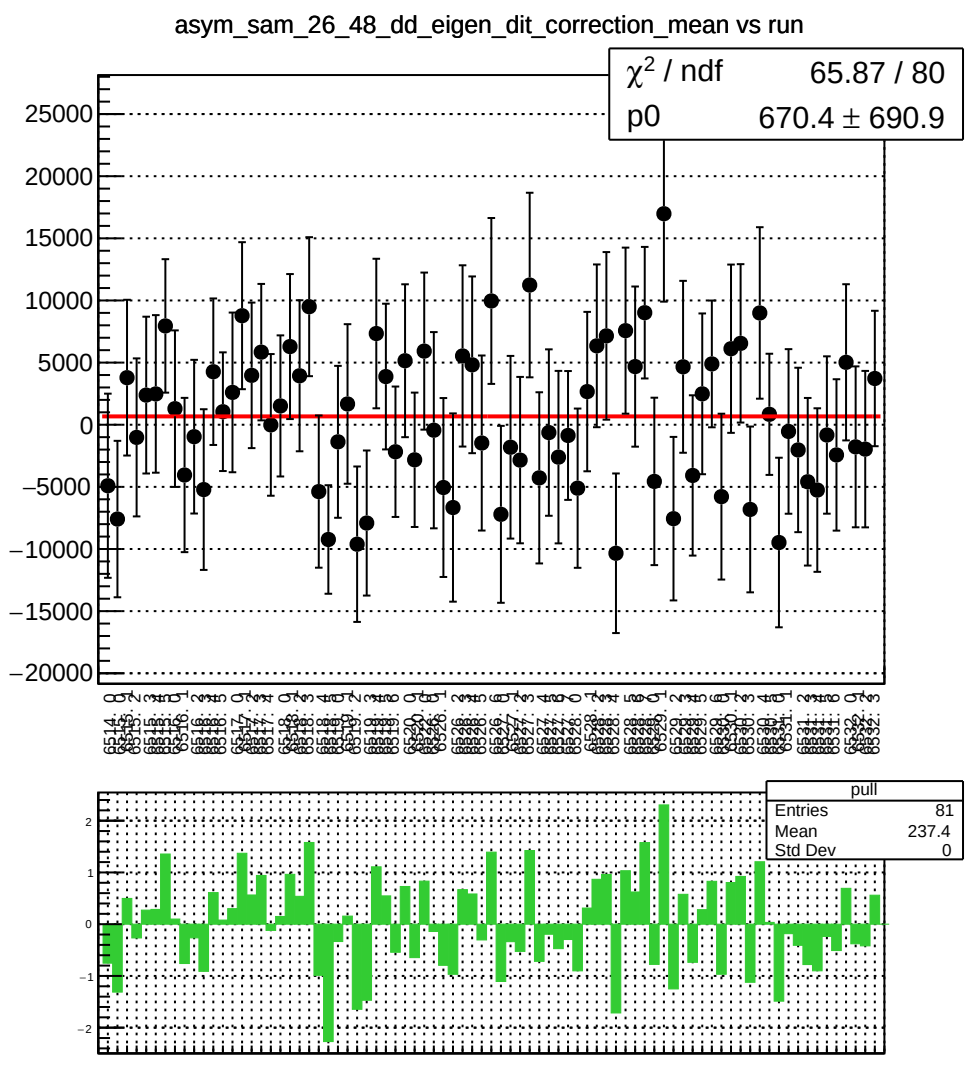

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 65.87 / 80
p0 670.4 ± 690.9
pull
Entries 81
Mean 237.4
Std Dev 0
pull1D
Entries 81
Mean −0.003502
Std Dev 0.9018

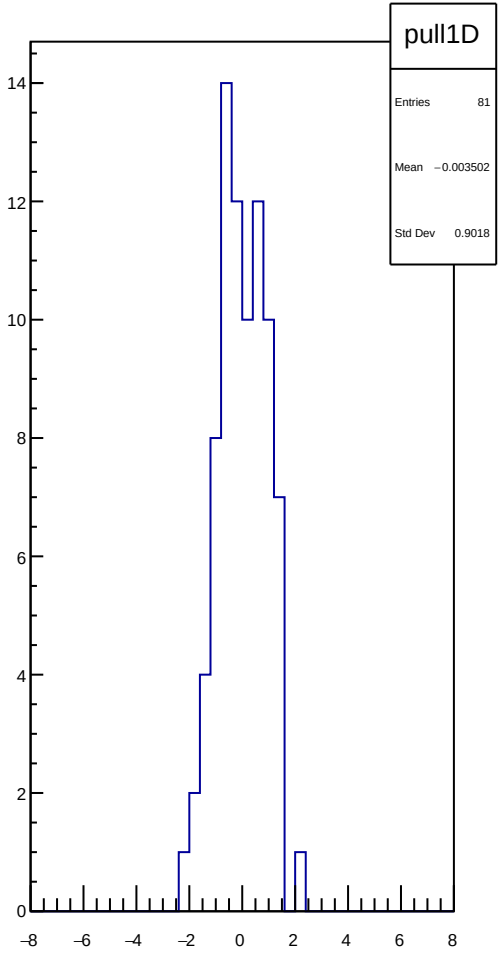

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 7642 / 80
p0 608.9 ± 0.4886
750
700
650
600
550
500

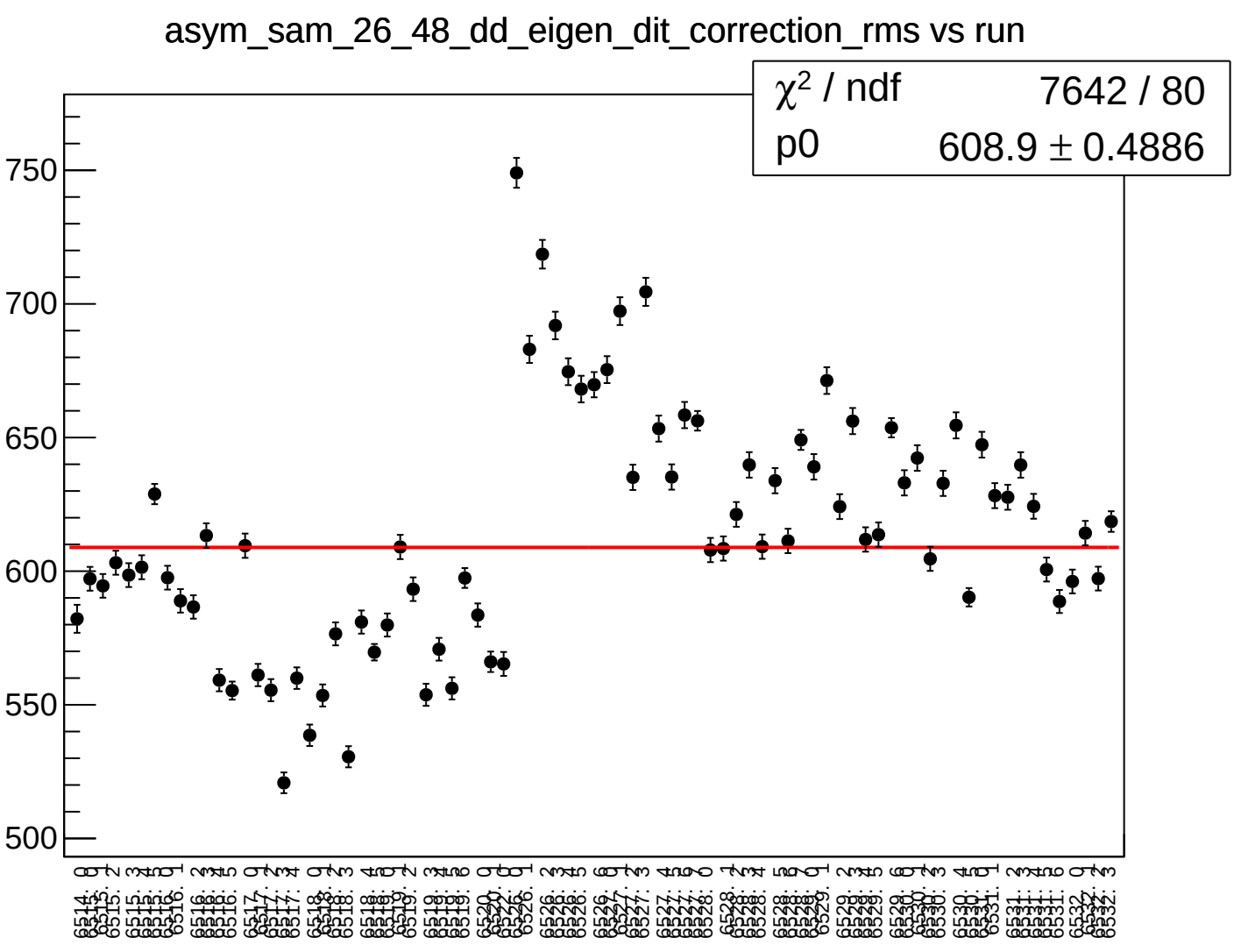

eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 90.55 / 80
p0 −88.87 ± 124.7
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 81
Mean 503.2
Std Dev 0
2
1
0
−1
−2
−3

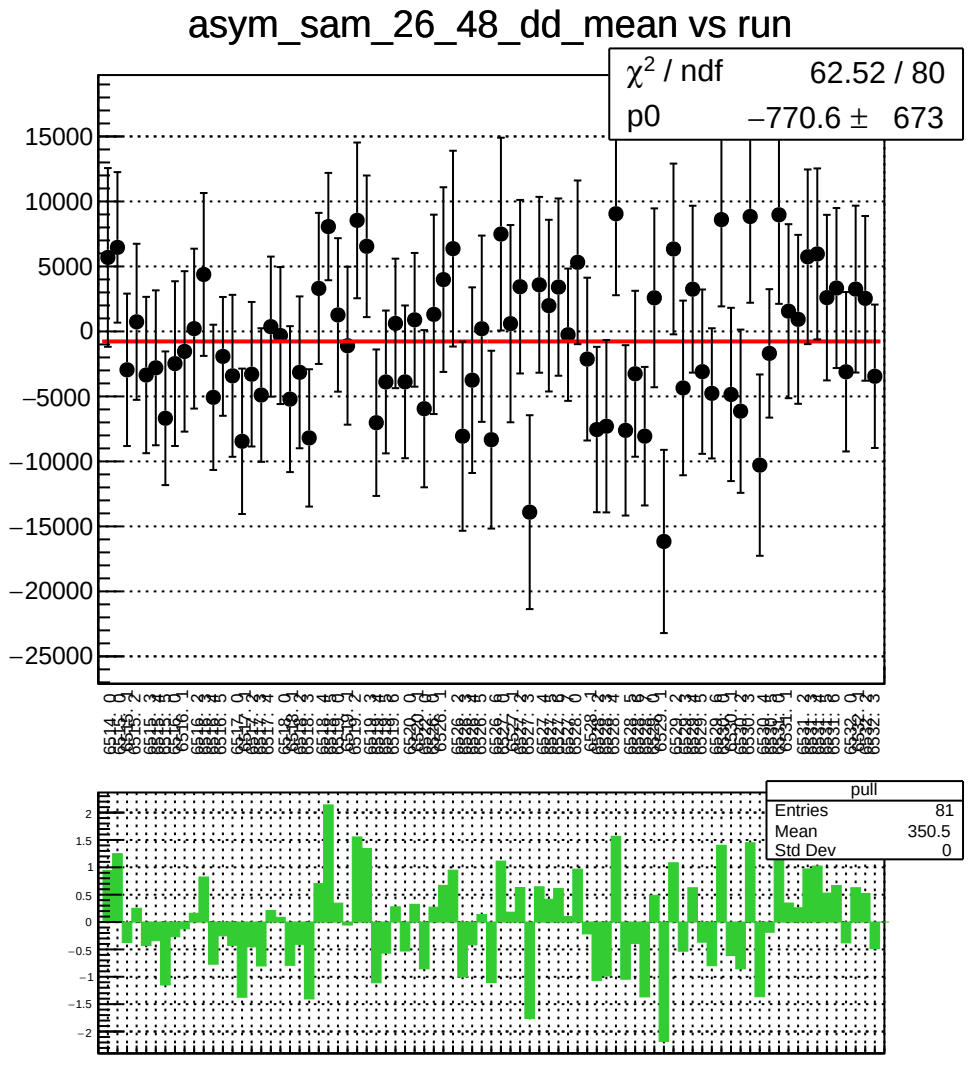

pull1D
Entries 81
Mean 0.01285
Std Dev 1.057
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

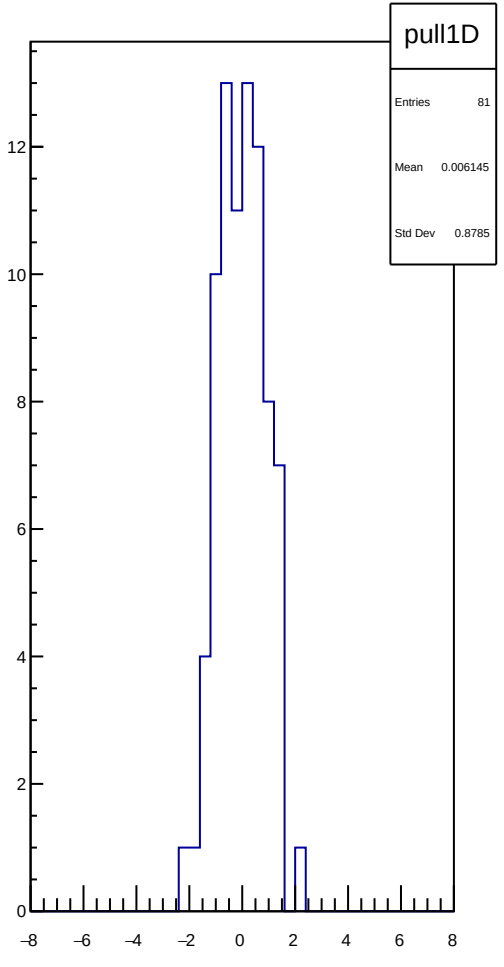

eigen_dit_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 2.197e+04 / 80
p0 109.4 ± 0.08815
150
140
130
120
110
100
90

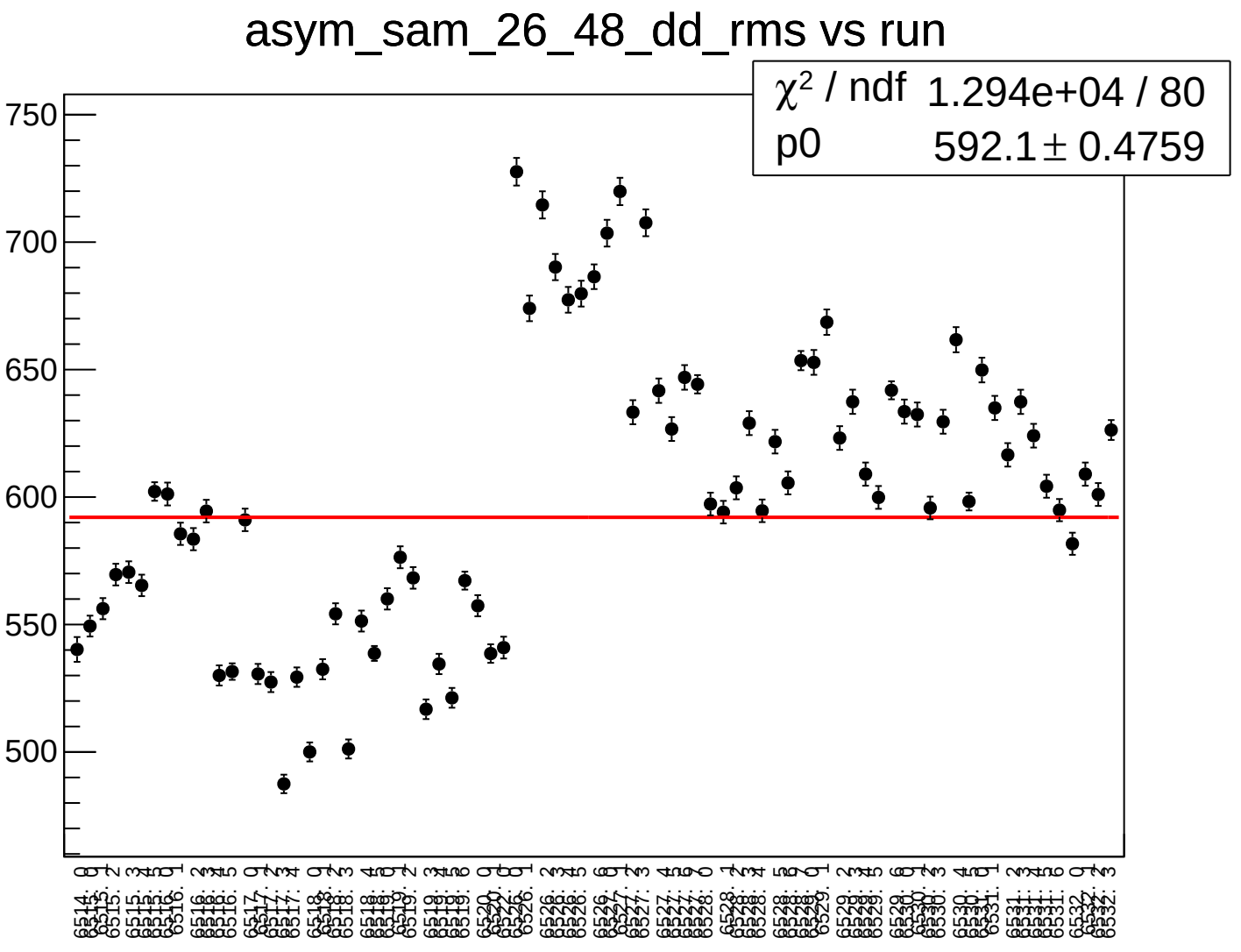

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 65.87 / 80
p0 670.4 ± 690.9
pull
Entries 81
Mean 237.4
Std Dev 0

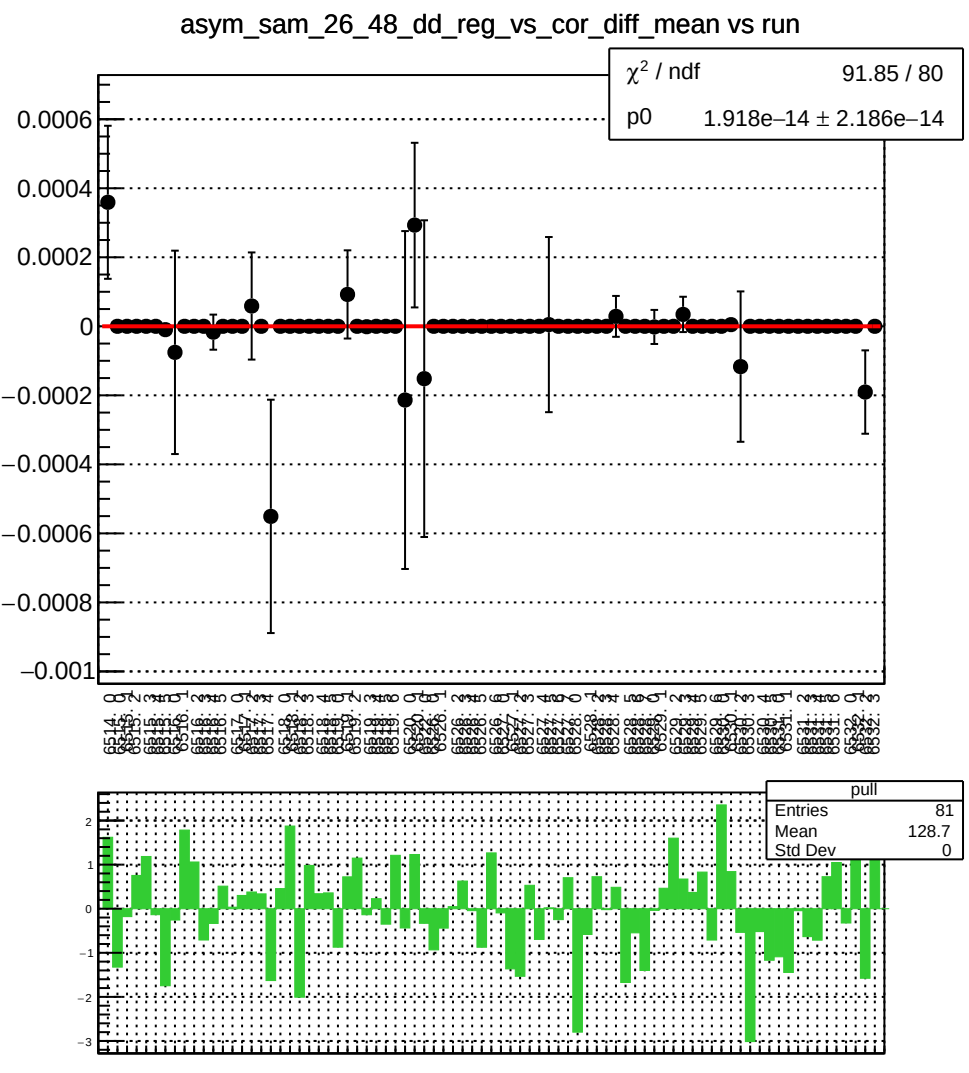

pull1D
Entries 81
Mean −0.003502
Std Dev 0.9018

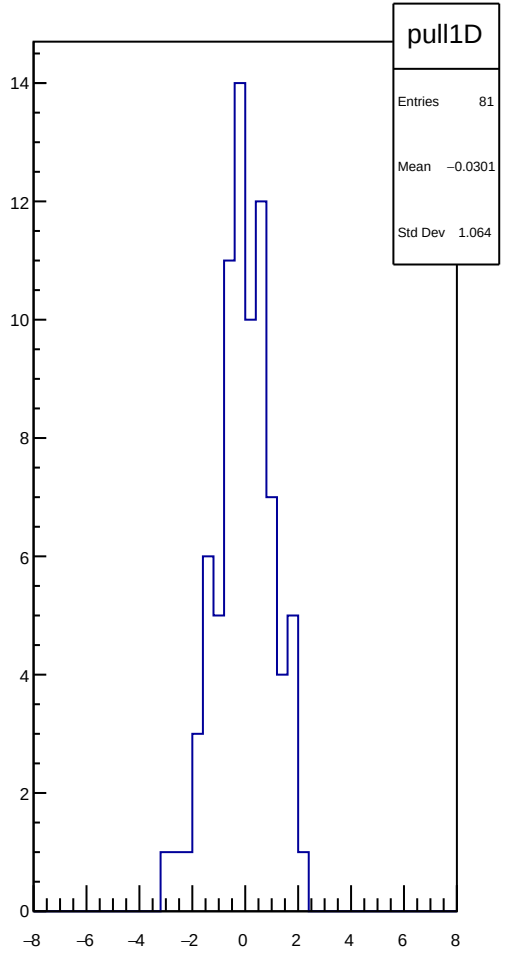

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 7642 / 80
p0 608.9 ± 0.4886
750
700
650
600
550
500

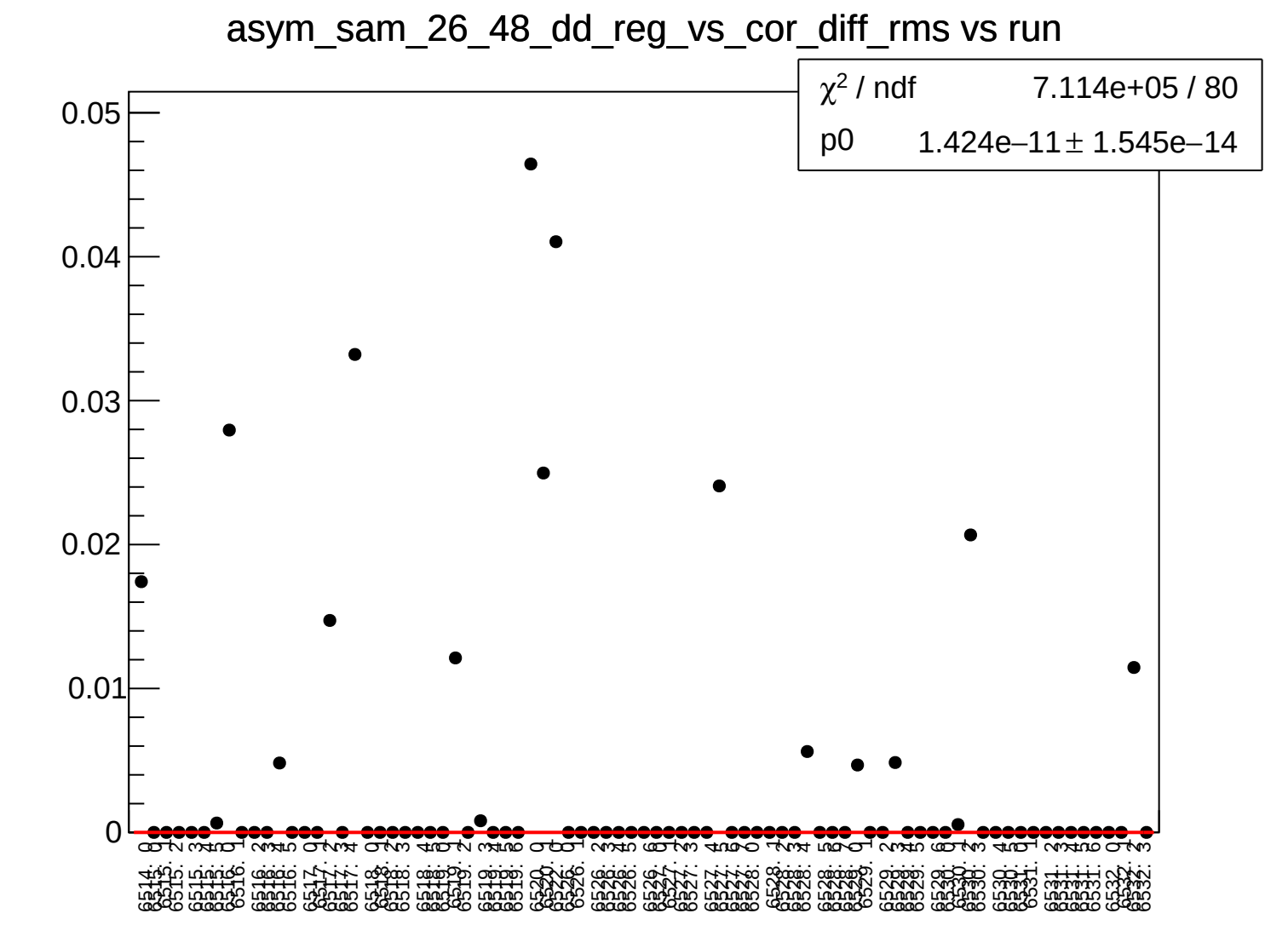

asym_sam_26_48_dd_mean vs run
χ² / ndf 62.52 / 80
p0 −770.6 ± 673
pull
Entries 81
Mean 350.5
Std Dev 0

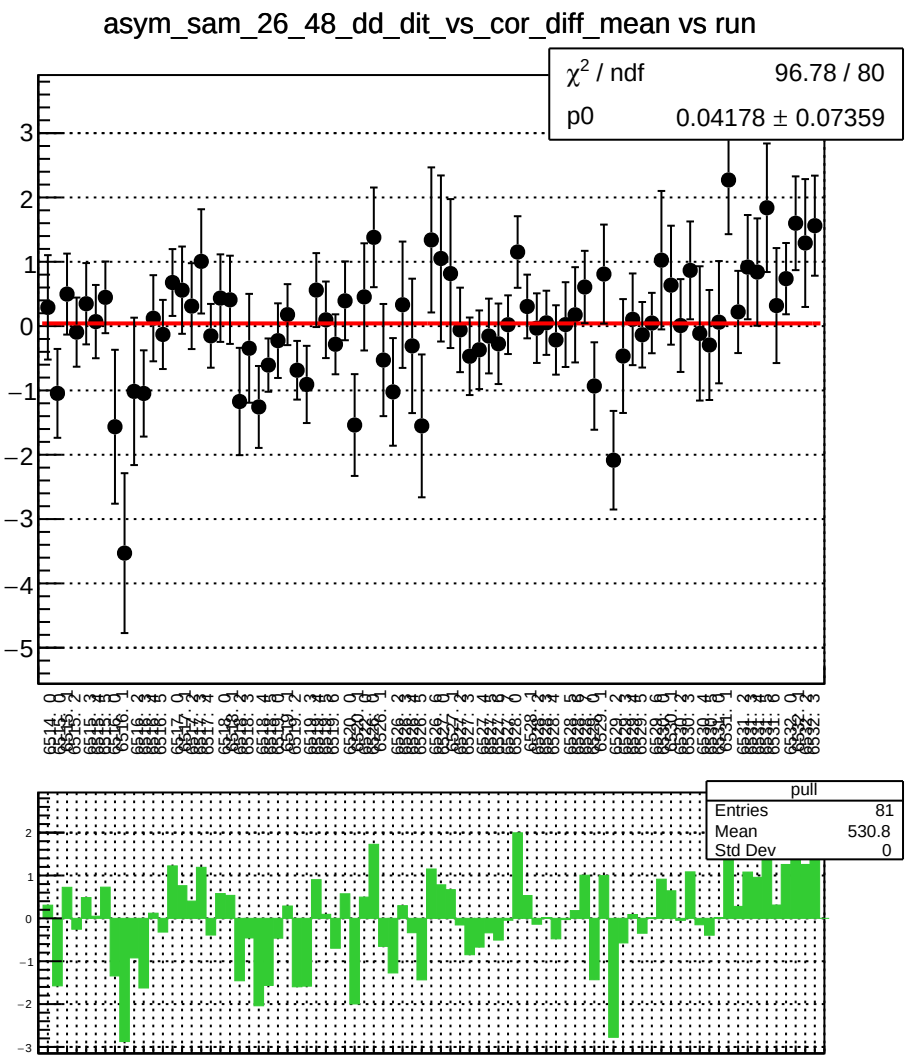

pull1D
Entries 81
Mean 0.006145
Std Dev 0.8785

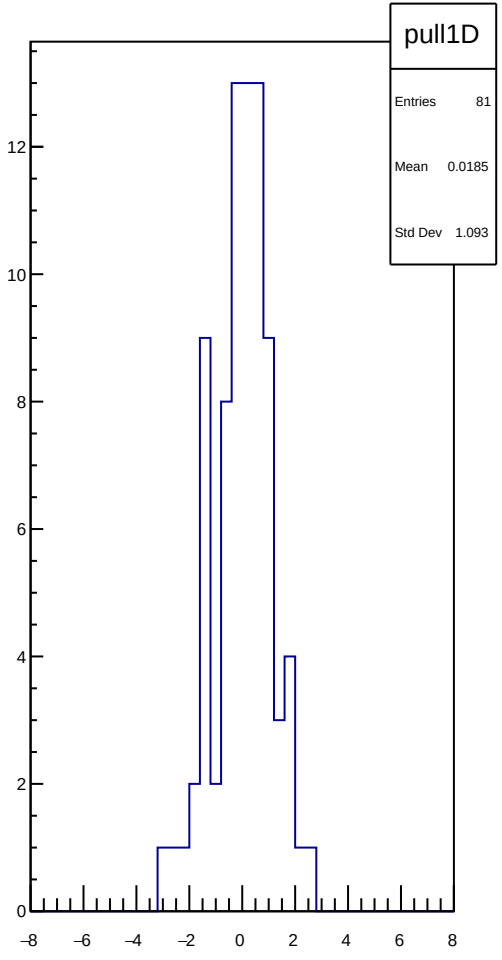

asym_sam_26_48_dd_rms vs run
χ² / ndf 1.294e+04 / 80
p0 592.1 ± 0.4759
750
700
650
600
550
500

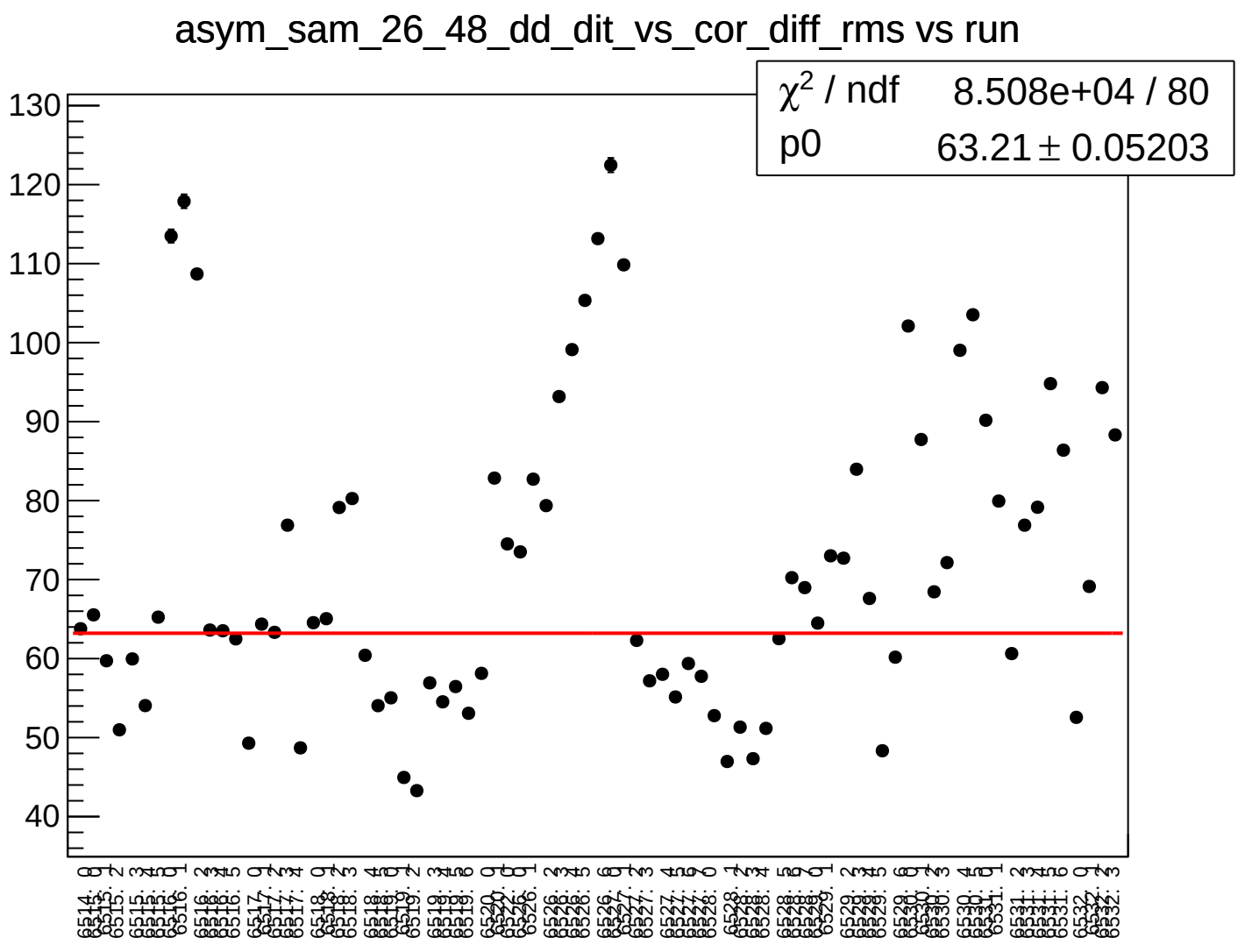

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 91.85 / 80
p0 1.918e−14 ± 2.186e−14
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 81
Mean 128.7
Std Dev 0
2
1
0
−1
−2
−3

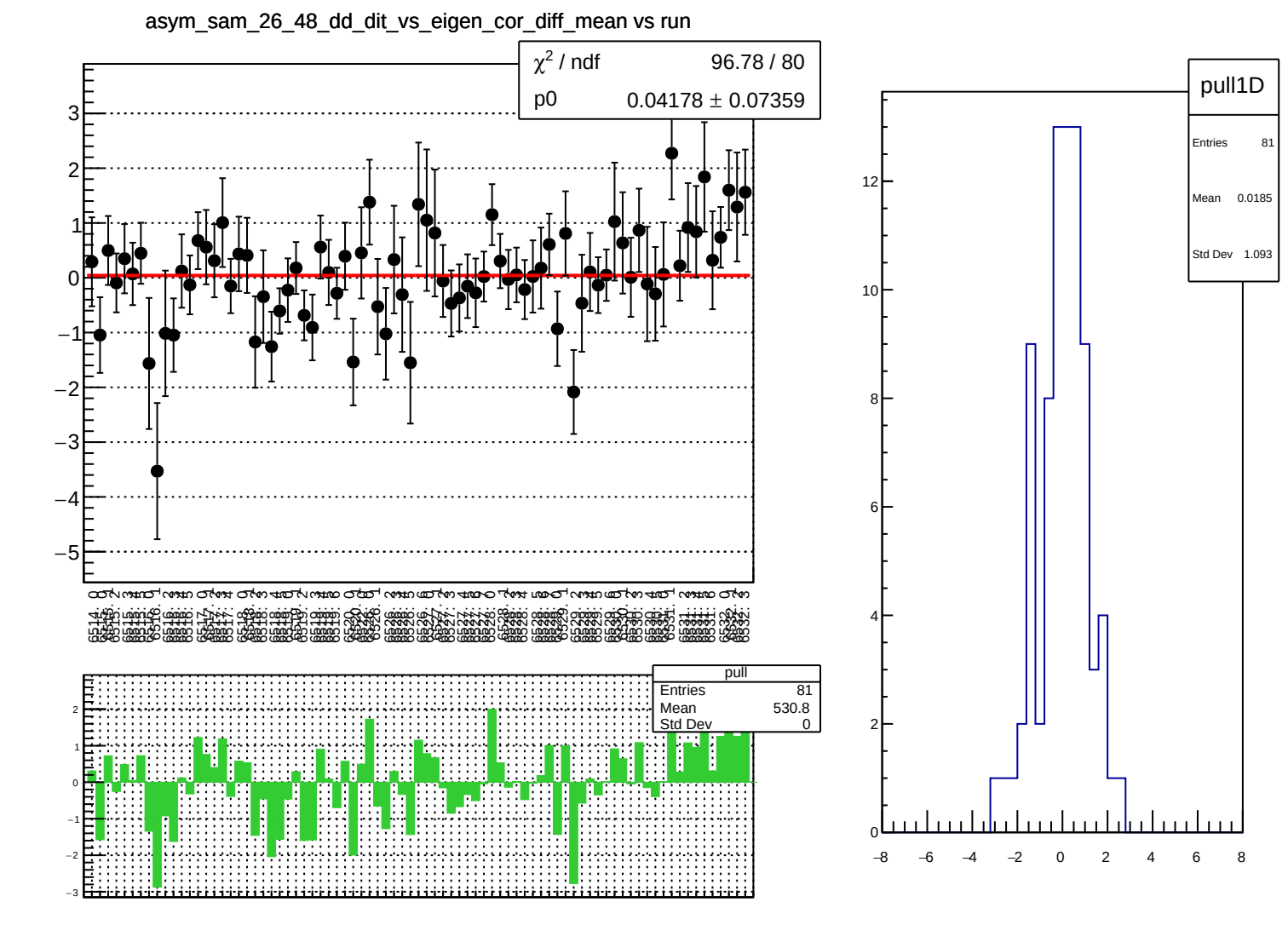

pull1D
Entries 81
Mean −0.0301
Std Dev 1.064
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

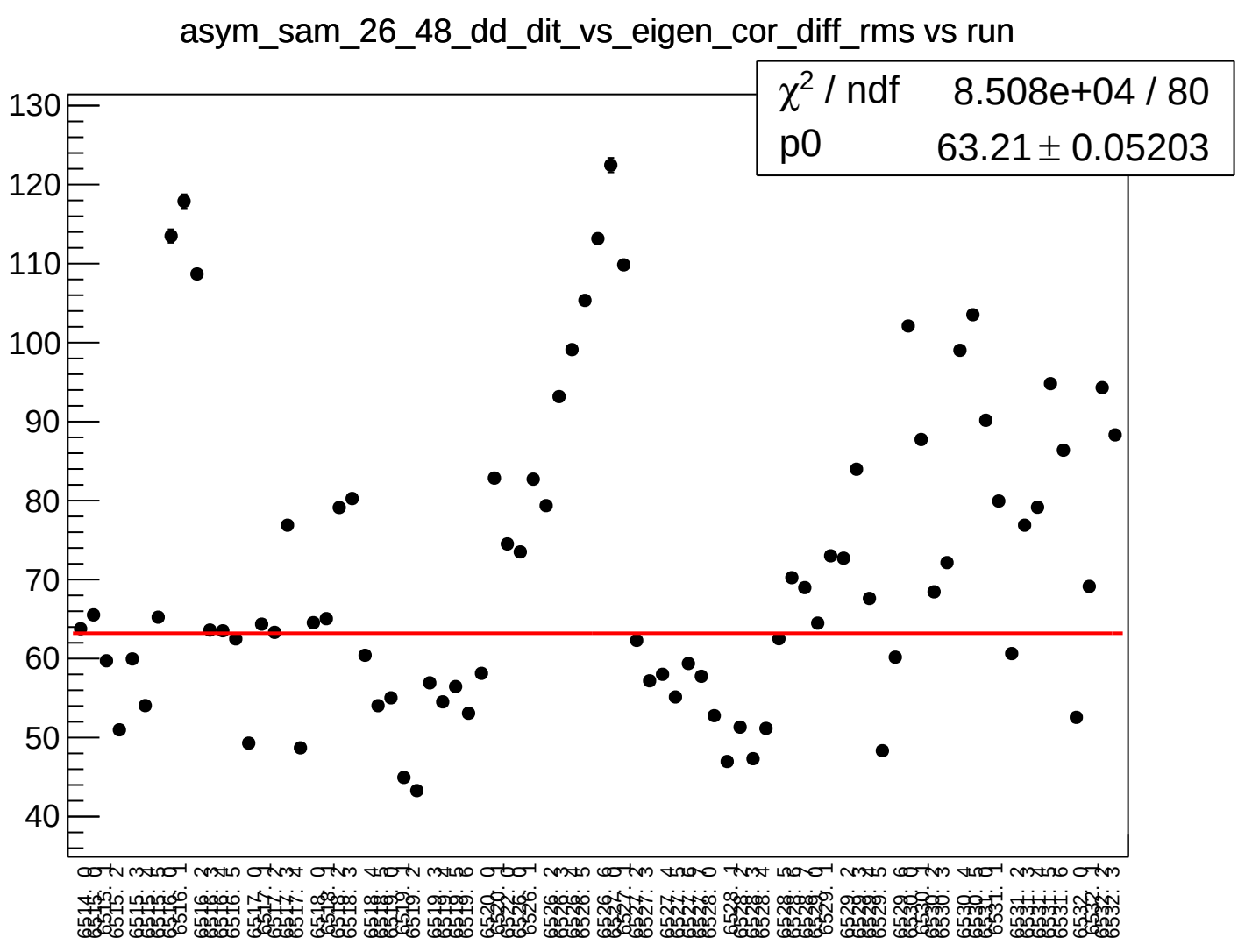

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.114e+05 / 80
p0 1.424e−11 ± 1.545e−14
0.05
0.04
0.03
0.02
0.01
0

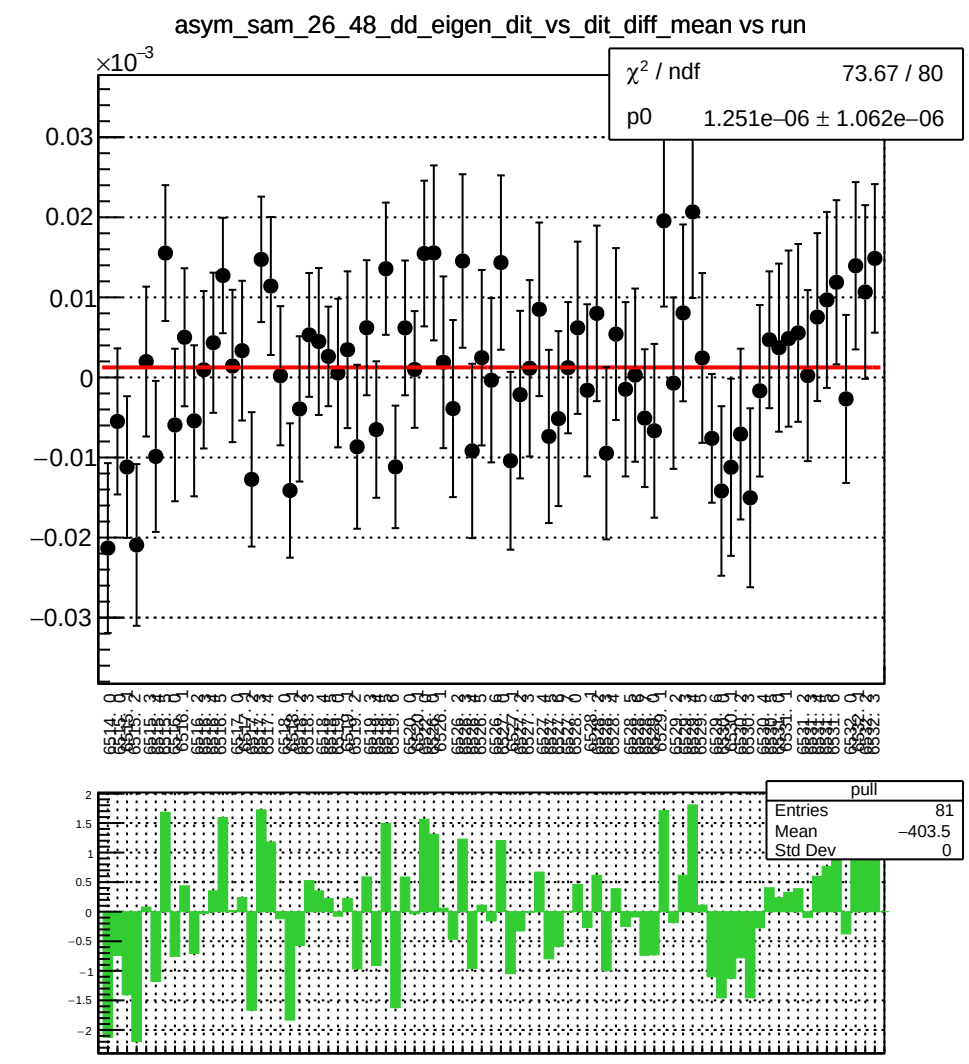

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 96.78 / 80
p0 0.04178 ± 0.07359
pull
Entries 81
Mean 530.8
Std Dev 0

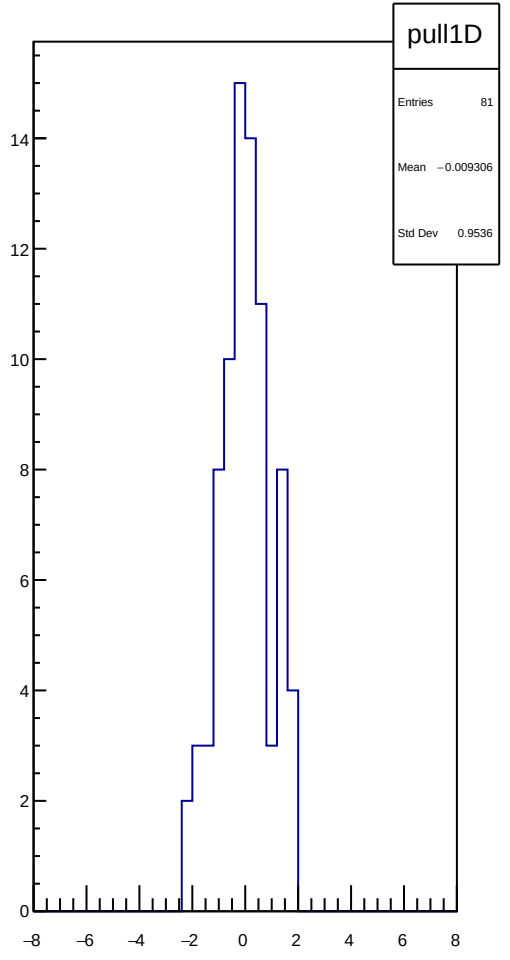

pull1D
Entries 81
Mean 0.0185
Std Dev 1.093

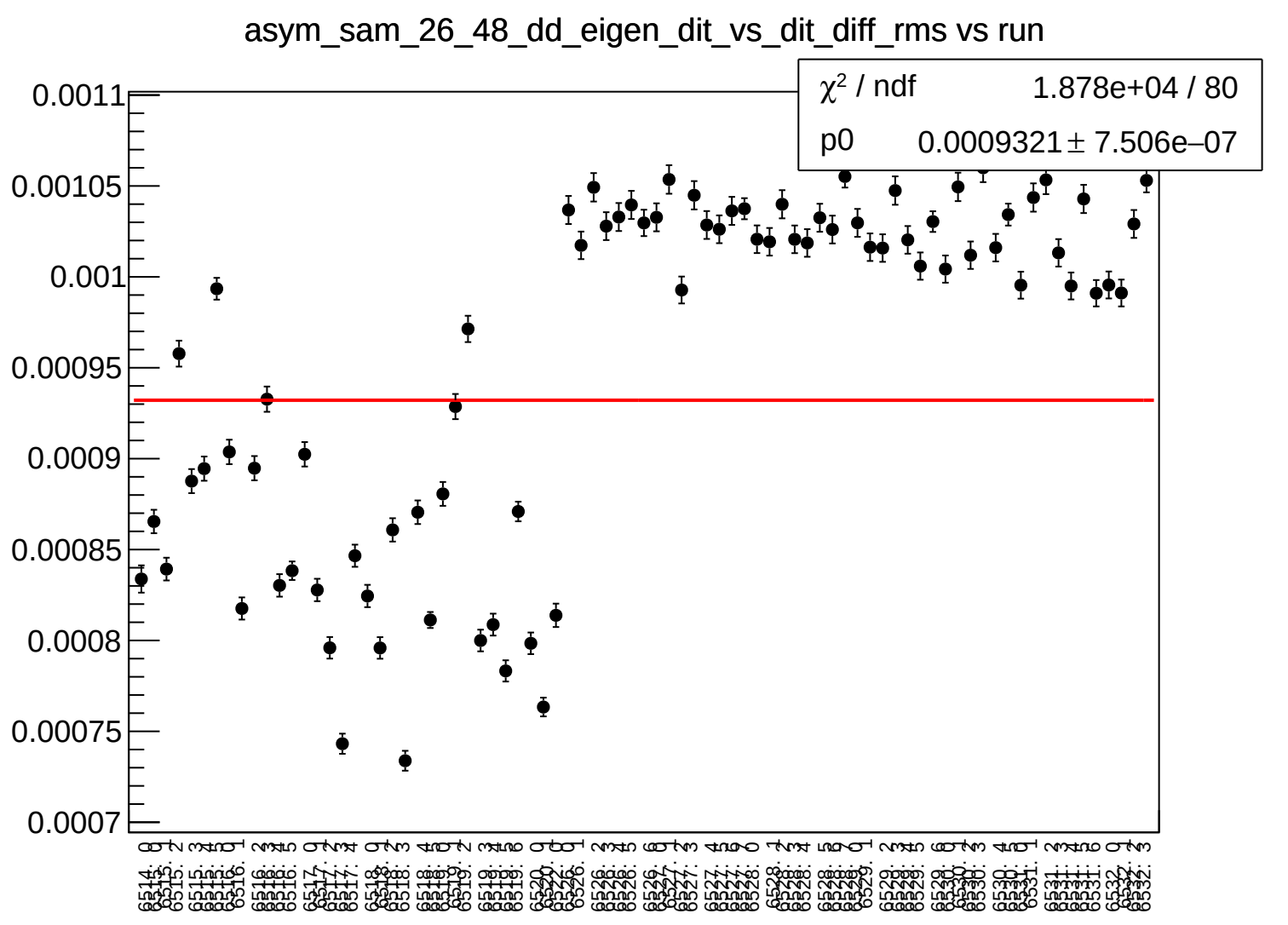

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 8.508e+04 / 80
p0 63.21 ± 0.05203
130
120
110
100
90
80
70
60
50
40

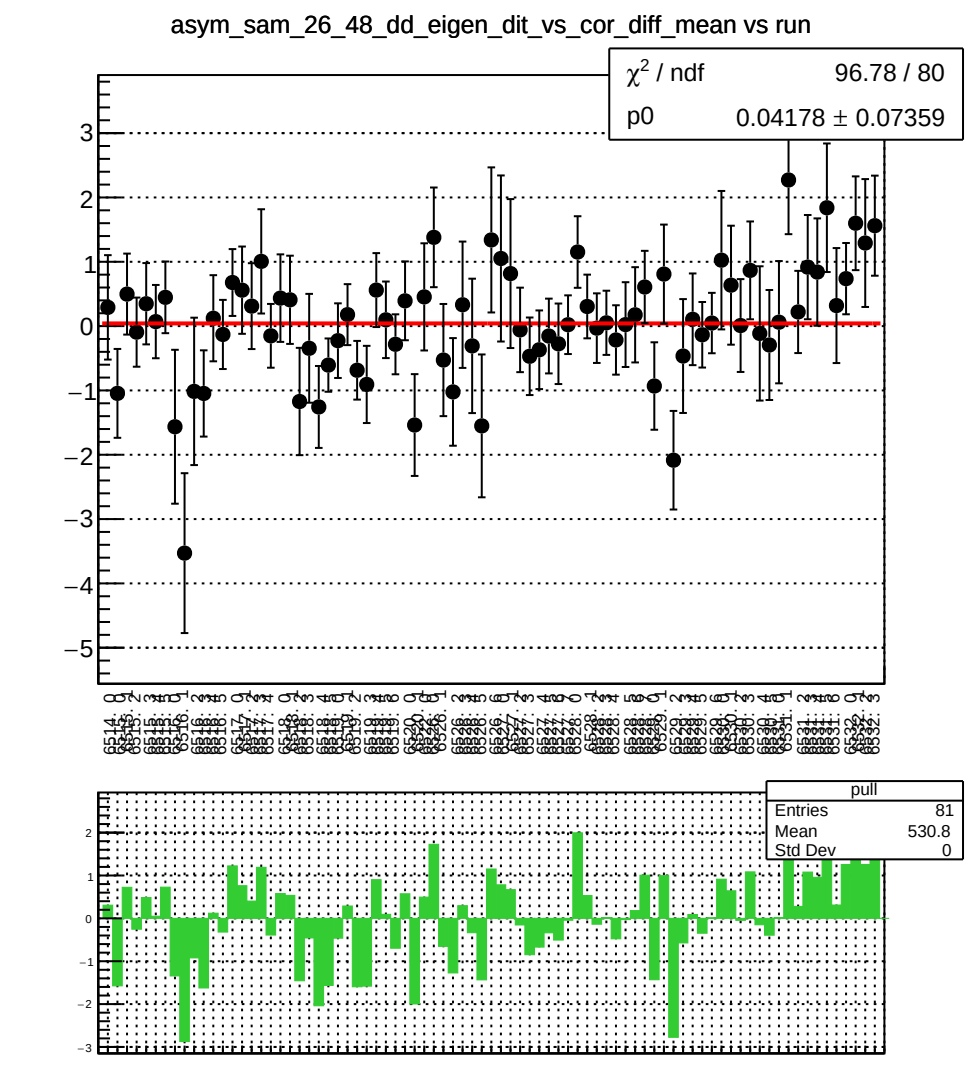

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.78 / 80
p0 0.04178 ± 0.07359
pull
Entries 81
Mean 530.8
Std Dev 0
pull1D
Entries 81
Mean 0.0185
Std Dev 1.093

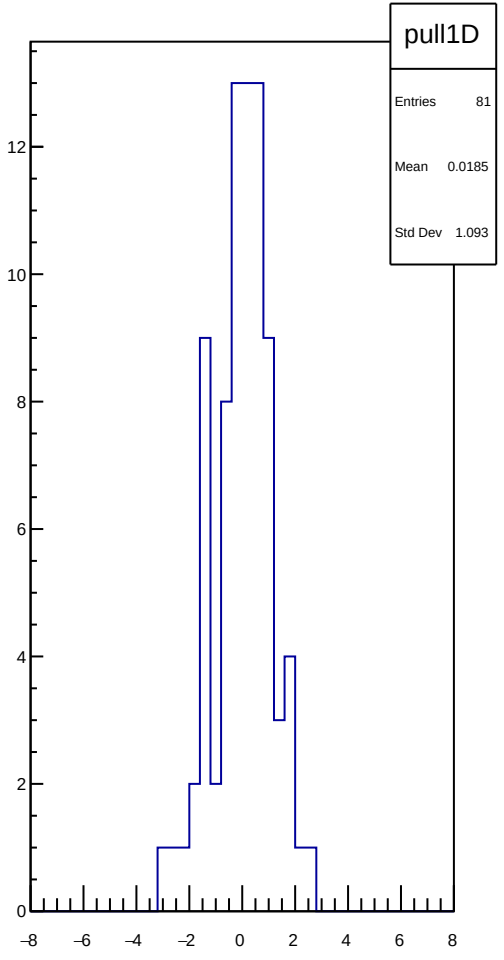

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 8.508e+04 / 80
p0 63.21 ± 0.05203
130
120
110
100
90
80
70
60
50
40

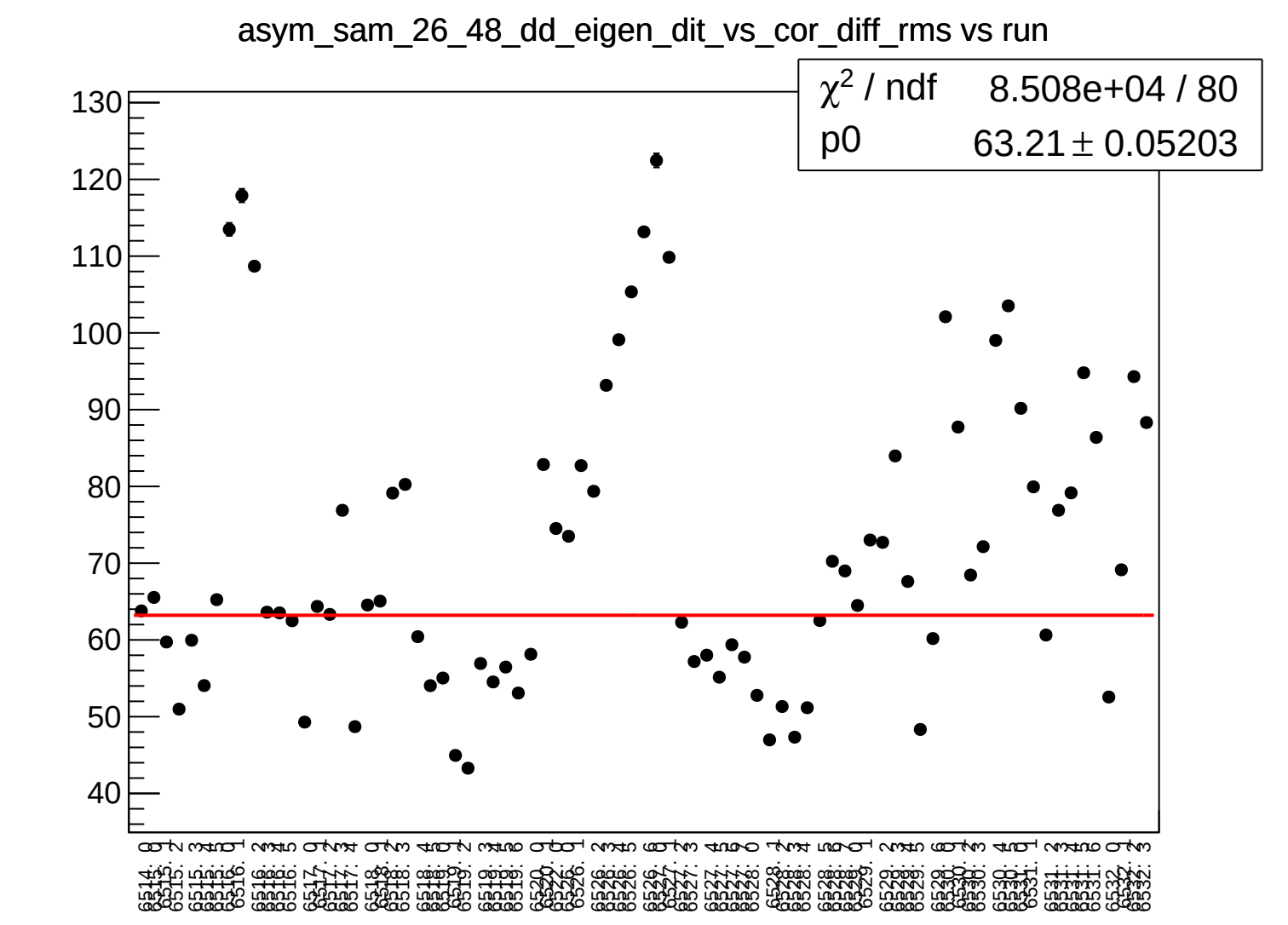

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.67 / 80
p0 1.251e−06 ± 1.062e−06
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 81
Mean −403.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

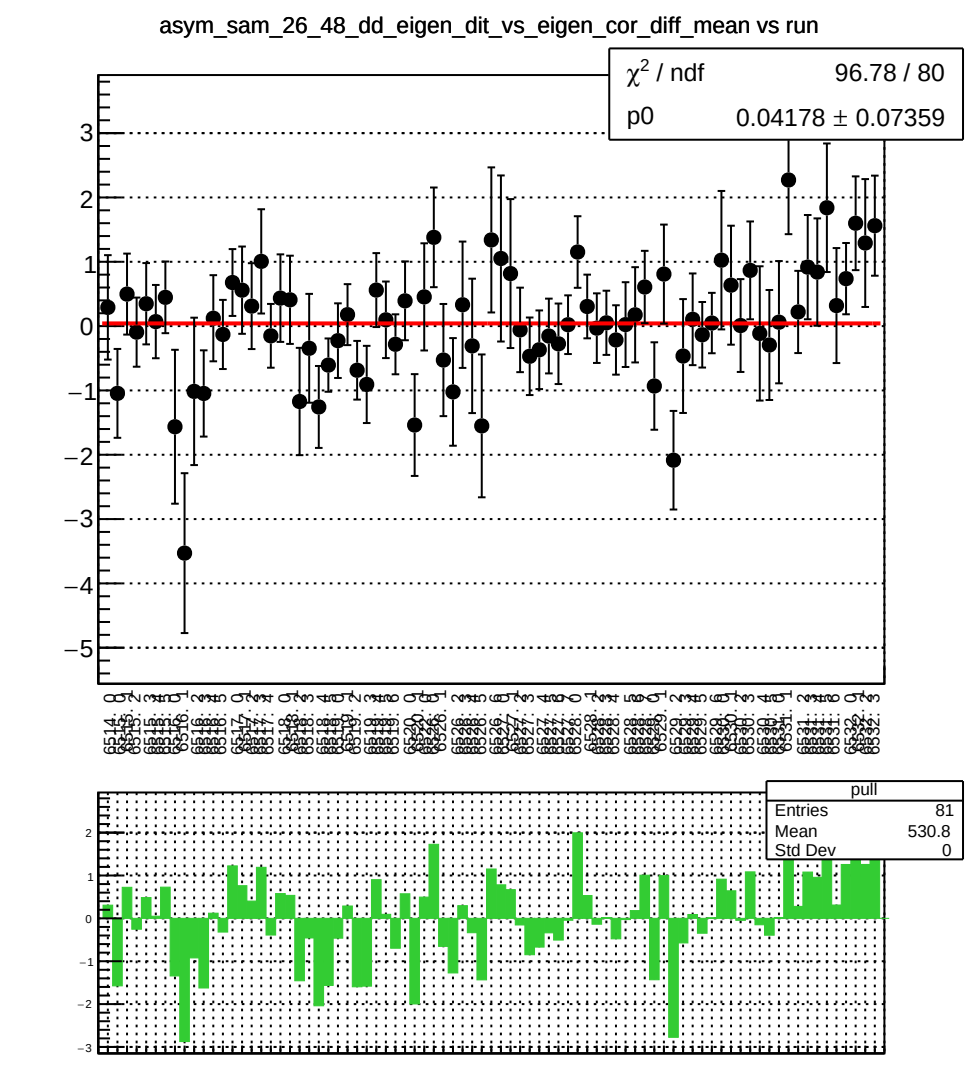

pull1D
Entries 81
Mean −0.009306
Std Dev 0.9536
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

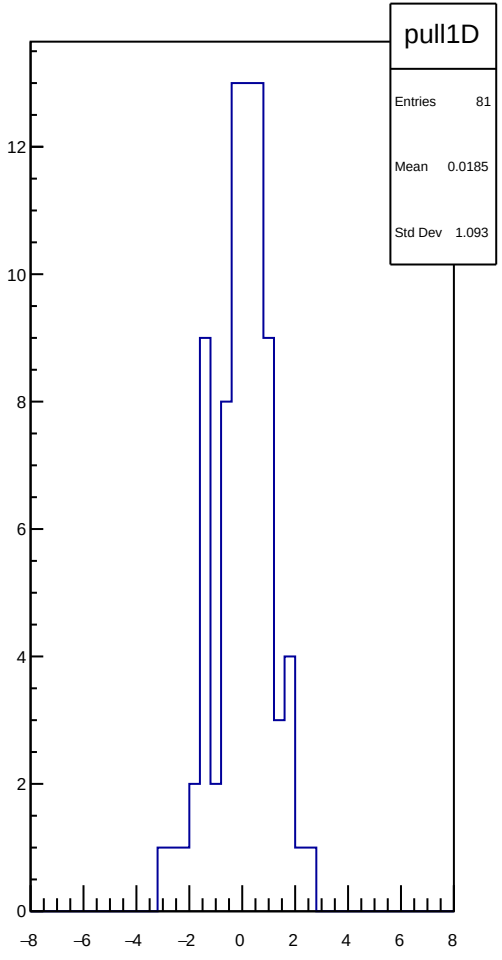

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.878e+04 / 80
p0 0.0009321 ± 7.506e−07
0.0011
0.00105
0.001
0.00095
0.0009
0.00085
0.0008
0.00075
0.0007

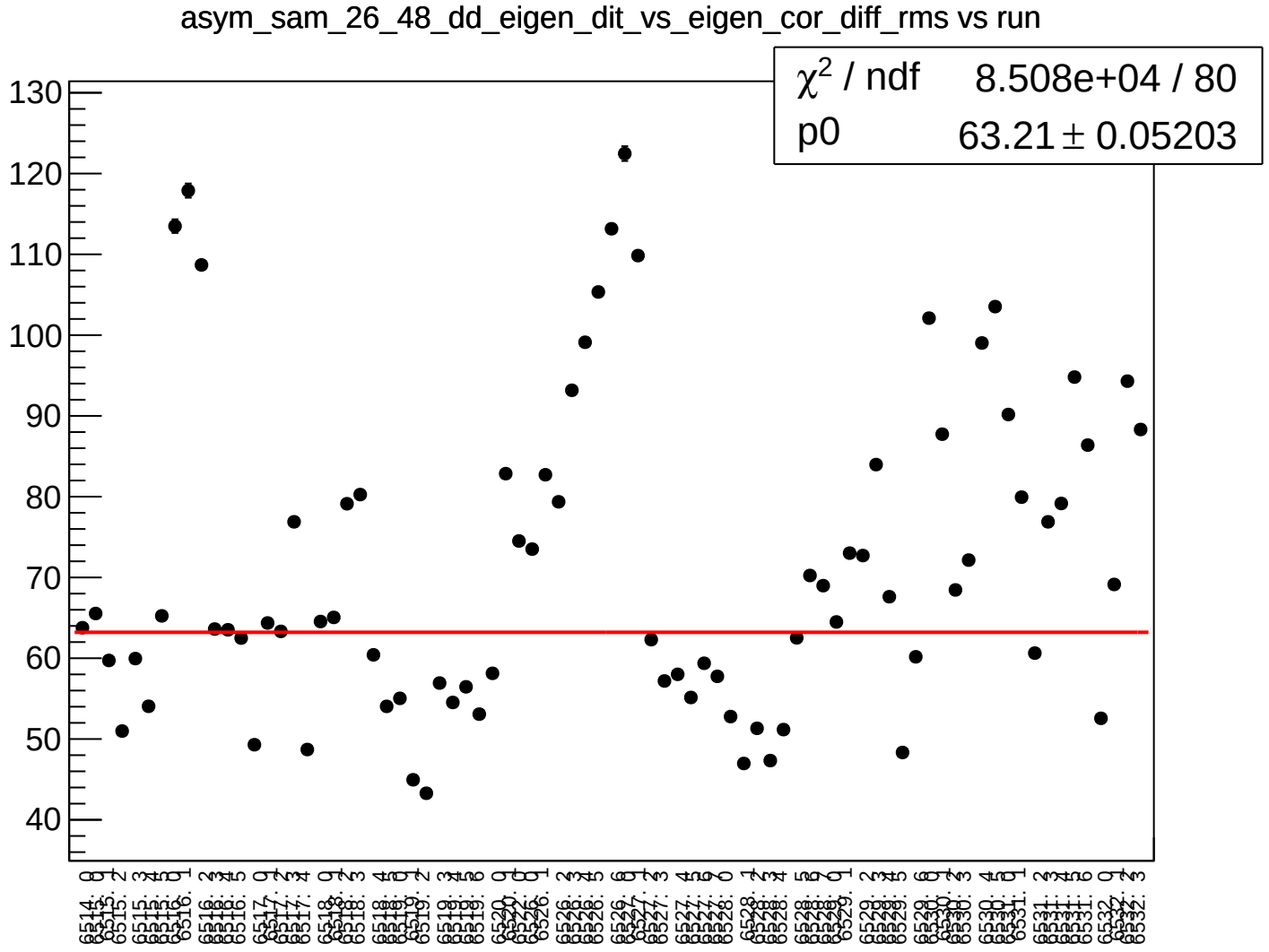

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.78 / 80
p0 0.04178 ± 0.07359
pull
Entries 81
Mean 530.8
Std Dev 0

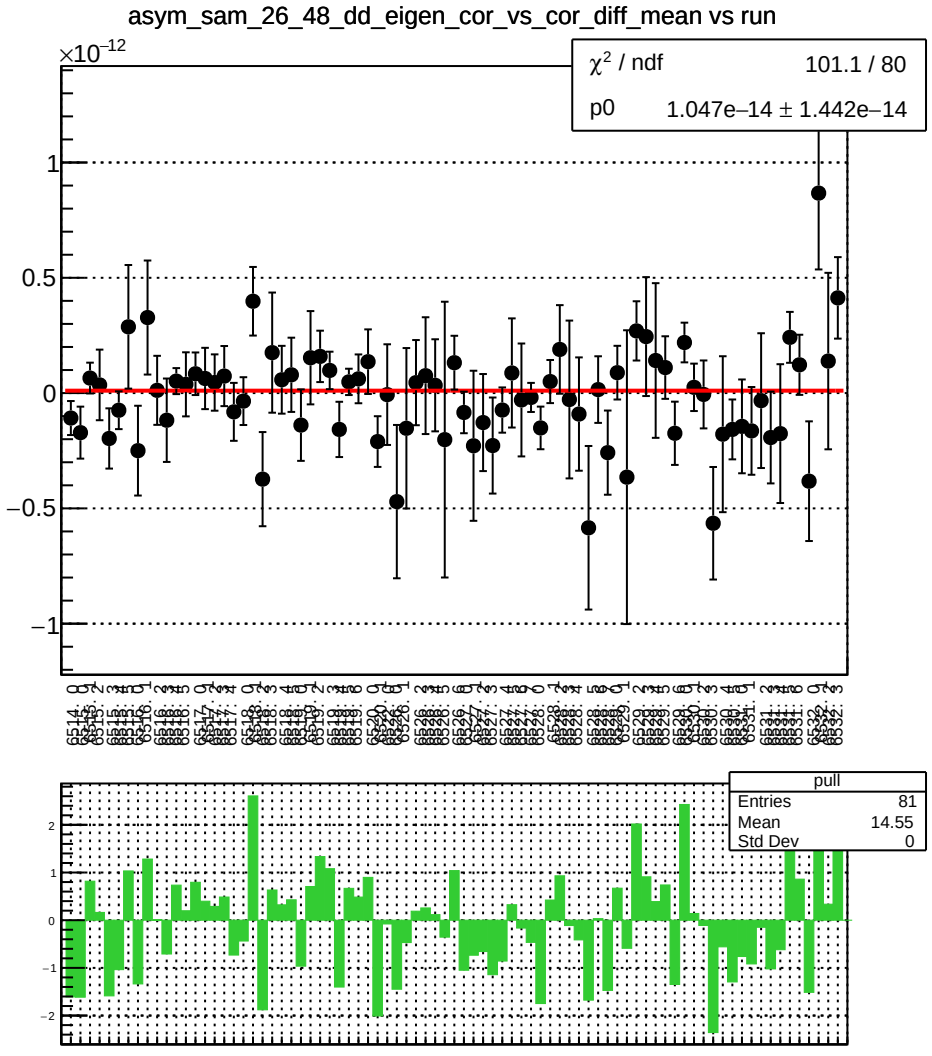

pull1D
Entries 81
Mean 0.0185
Std Dev 1.093

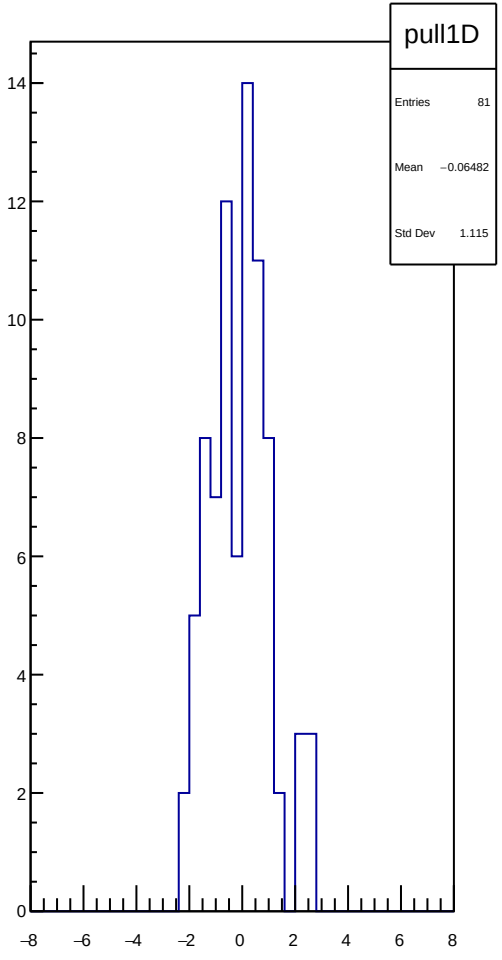

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 8.508e+04 / 80
p0 63.21 ± 0.05203
130
120
110
100
90
80
70
60
50
40

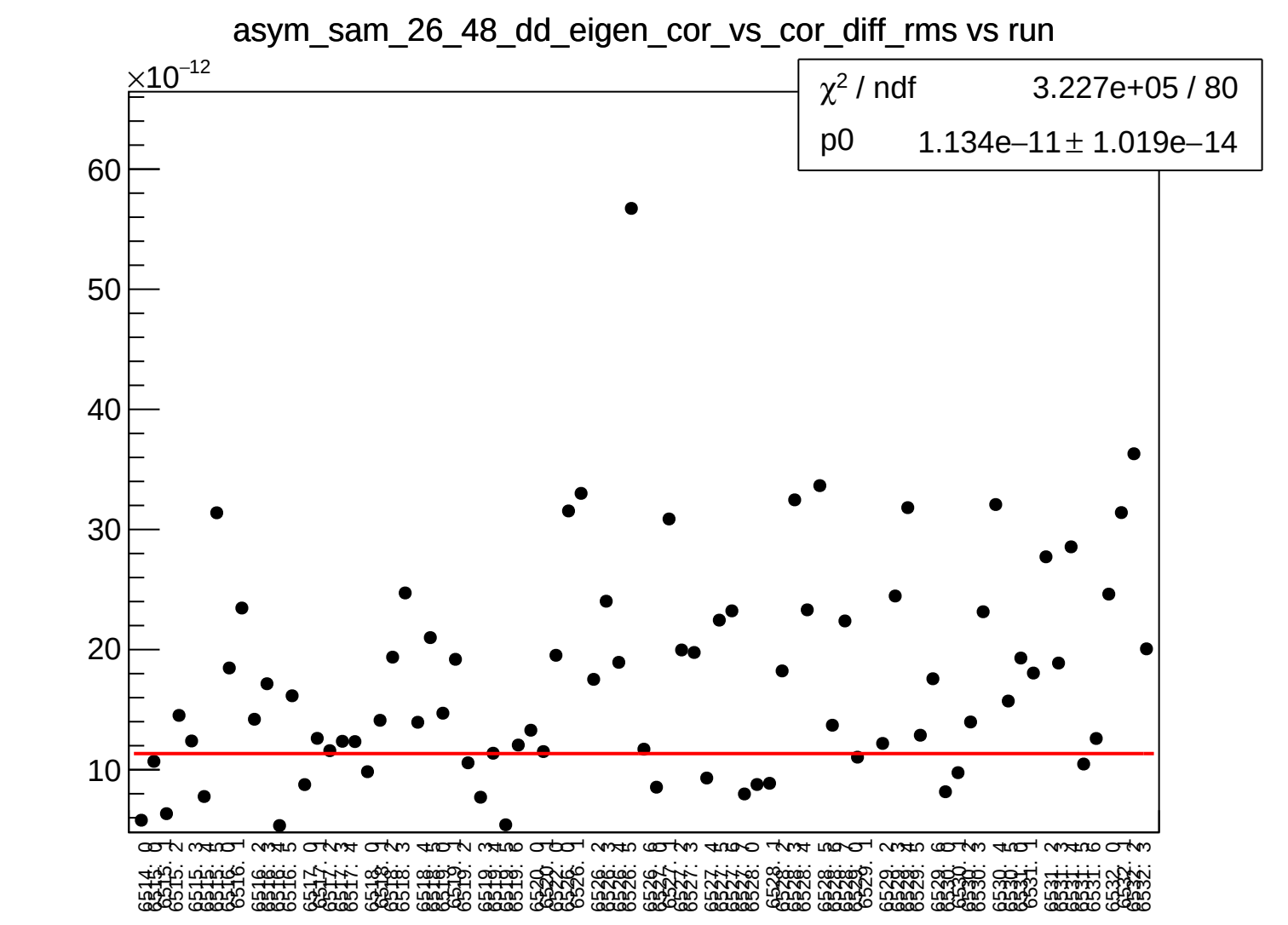

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.78 / 80
p0 0.04178 ± 0.07359
pull
Entries 81
Mean 530.8
Std Dev 0

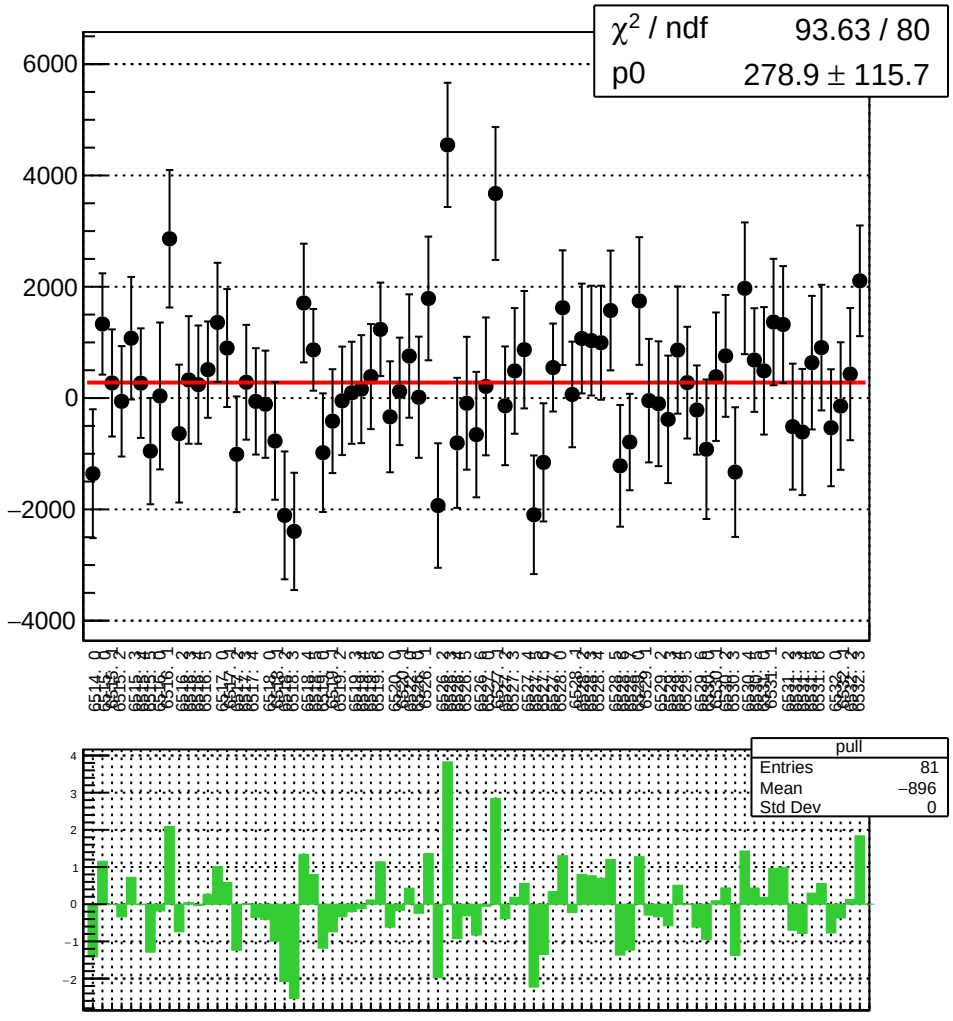

pull1D
Entries 81
Mean 0.0185
Std Dev 1.093

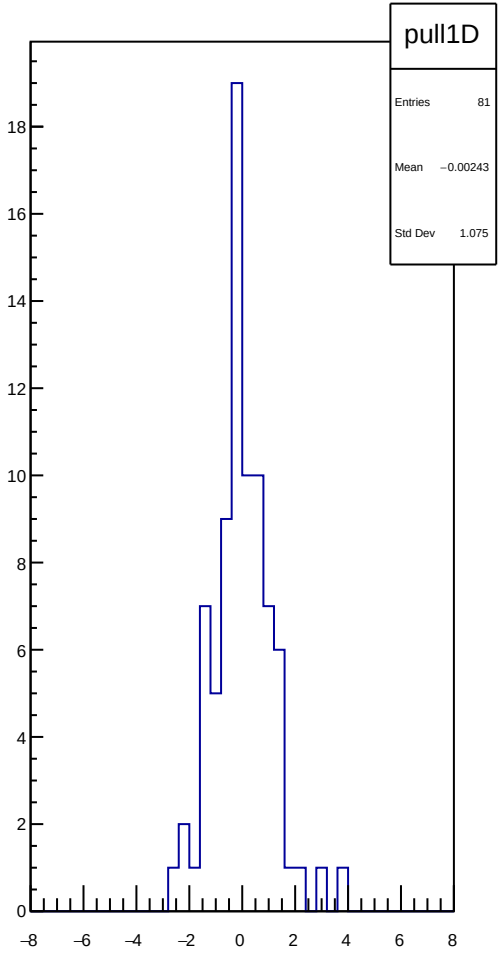

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.508e+04 / 80
p0 63.21 ± 0.05203
130
120
110
100
90
80
70
60
50
40

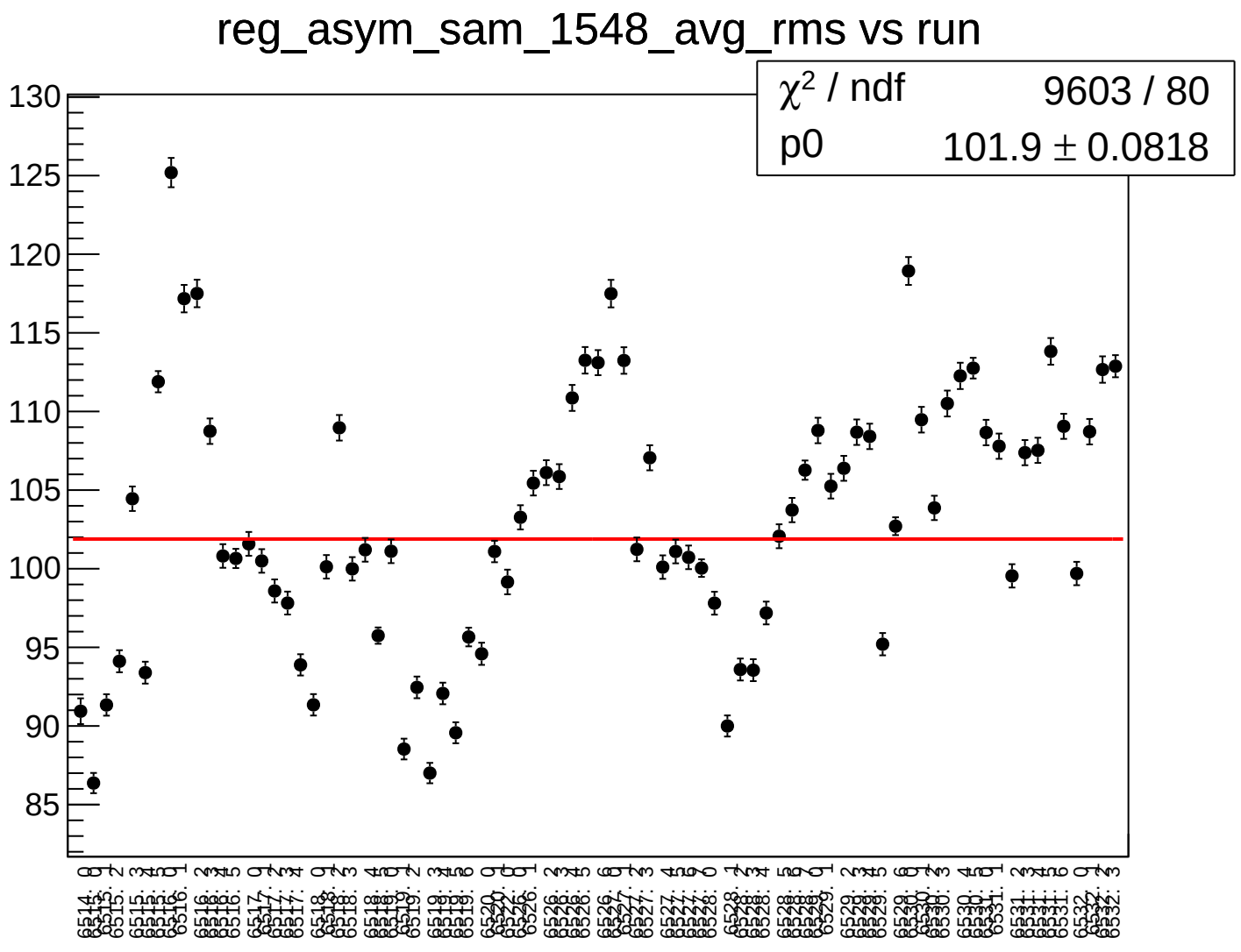

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 101.1 / 80
p0 1.047e−14 ± 1.442e−14
pull
Entries 81
Mean 14.55
Std Dev 0

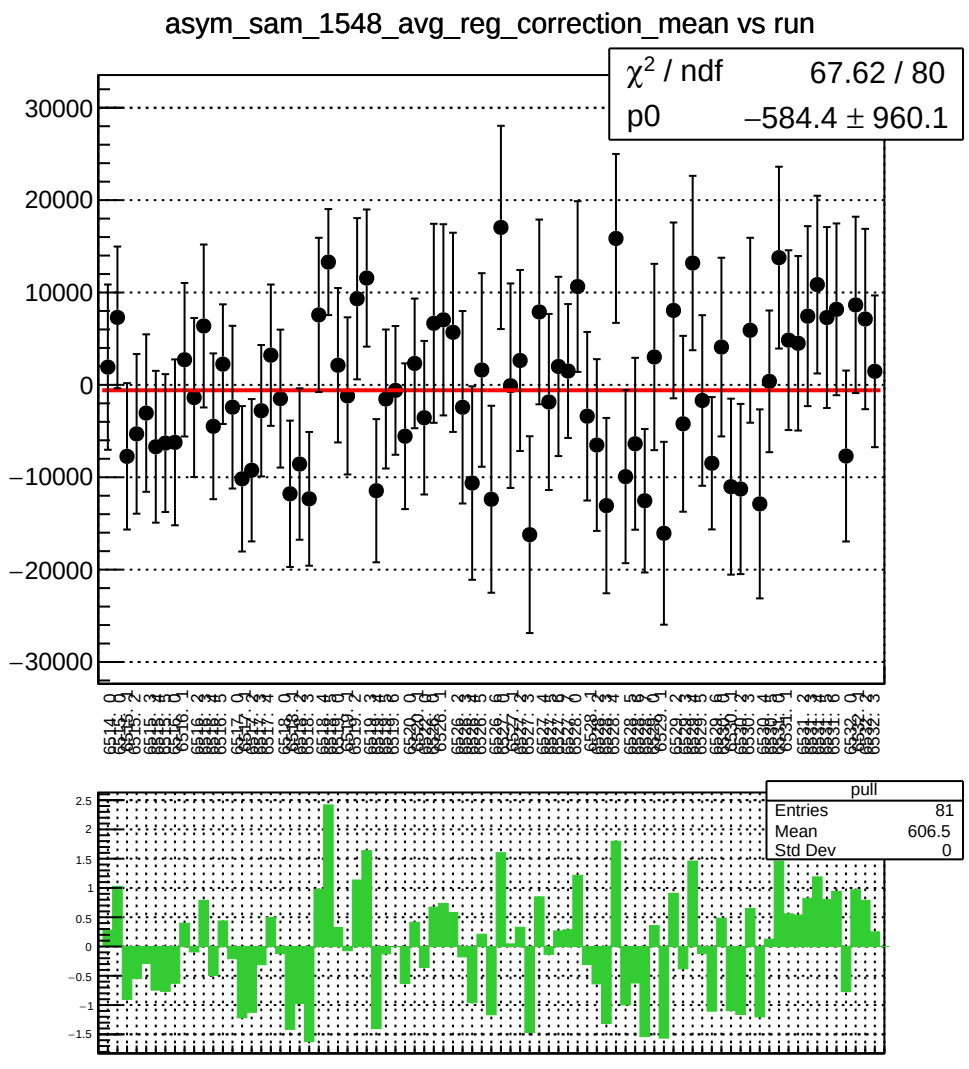

pull1D
Entries 81
Mean −0.06482
Std Dev 1.115

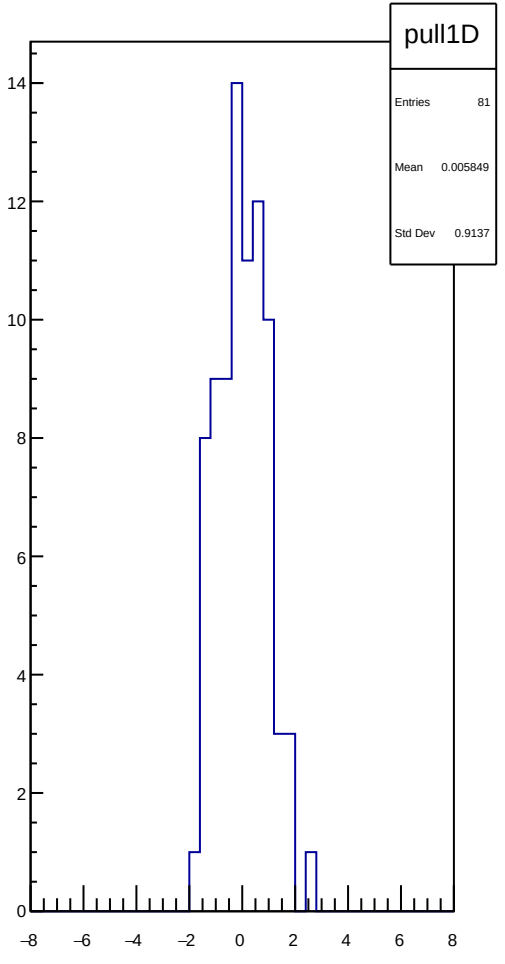

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.227e+05 / 80
p0 1.134e−11 ± 1.019e−14
60
50
40
30
20
10

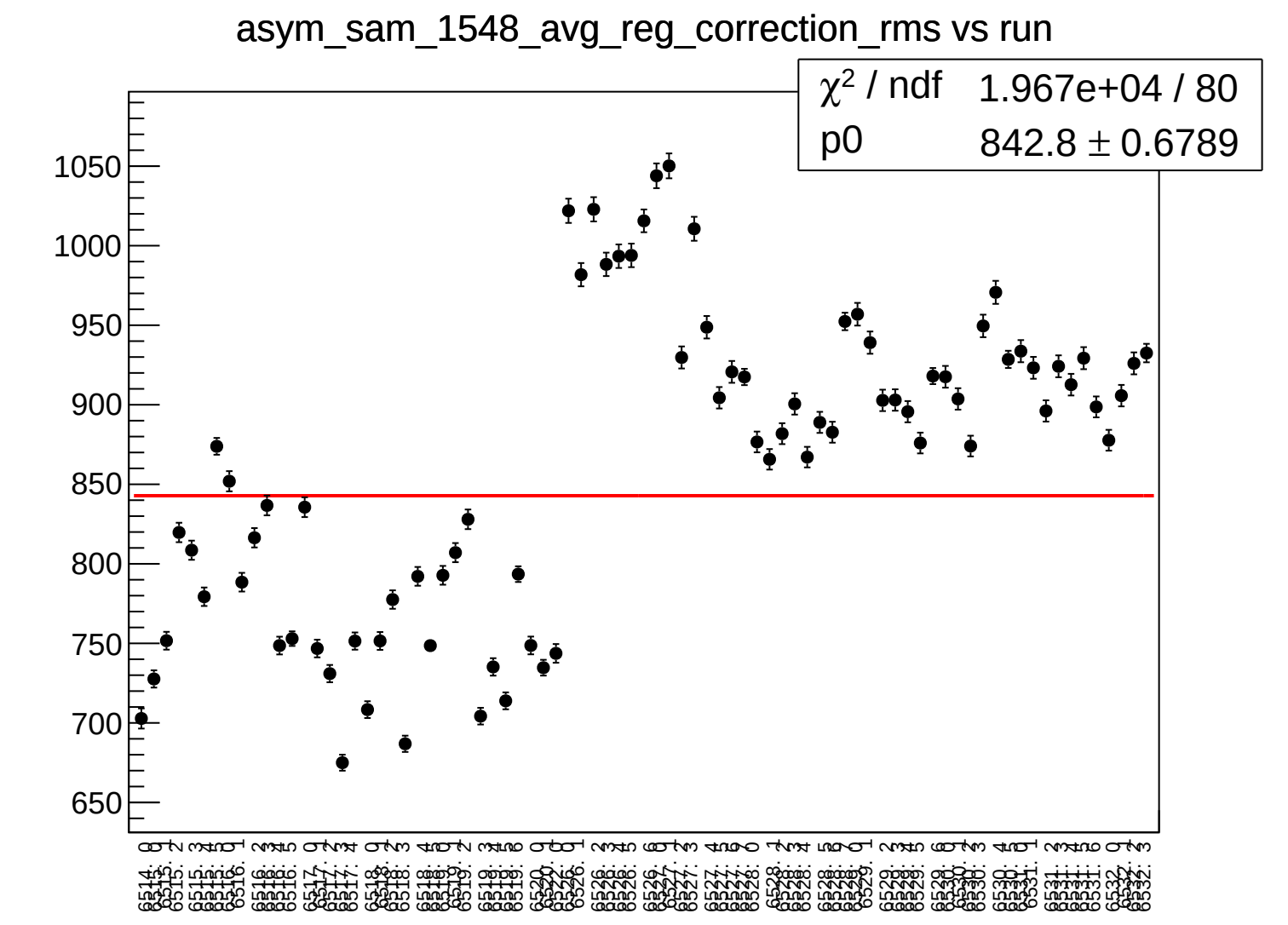

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 93.63 / 80
p0 278.9 ± 115.7
6000
4000
2000
0
−2000
−4000
pull
Entries 81
Mean −896
Std Dev 0
4
3
2
1
0
−1
−2

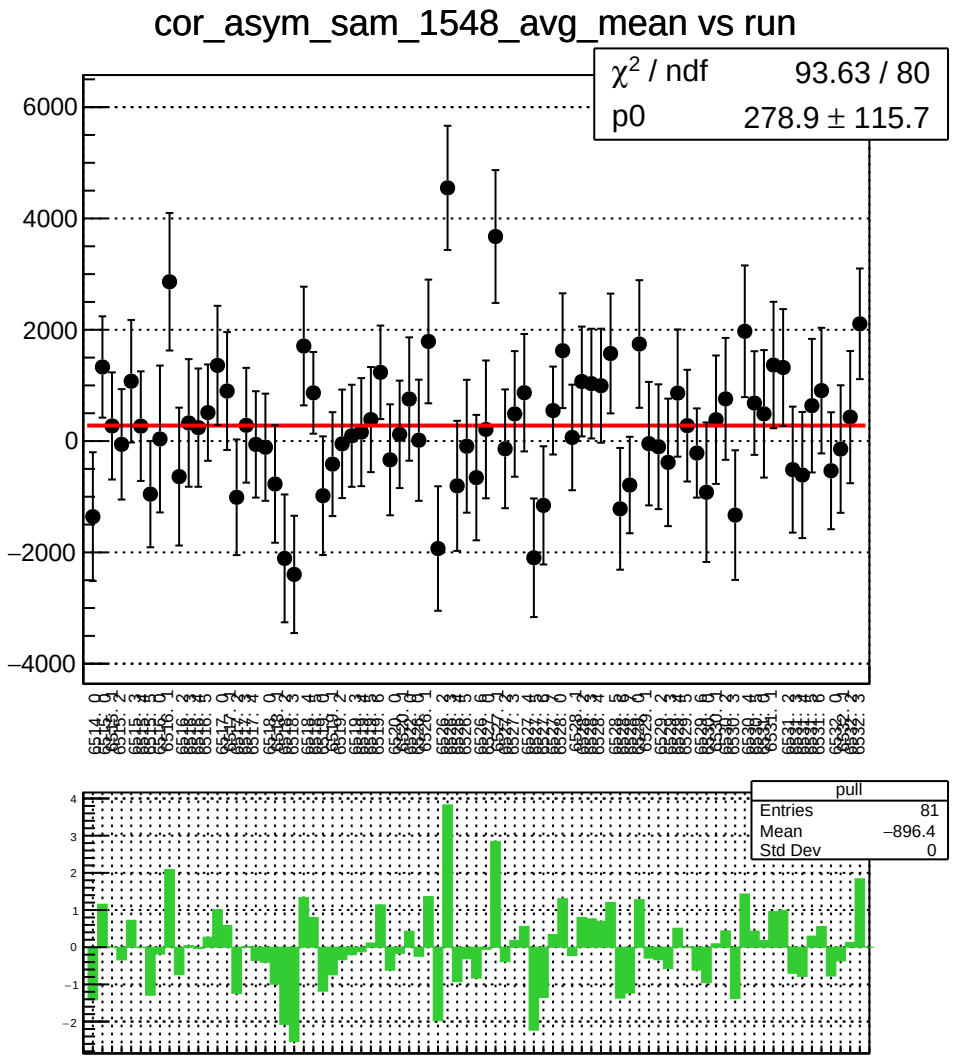

pull1D
Entries 81
Mean −0.00243
Std Dev 1.075
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

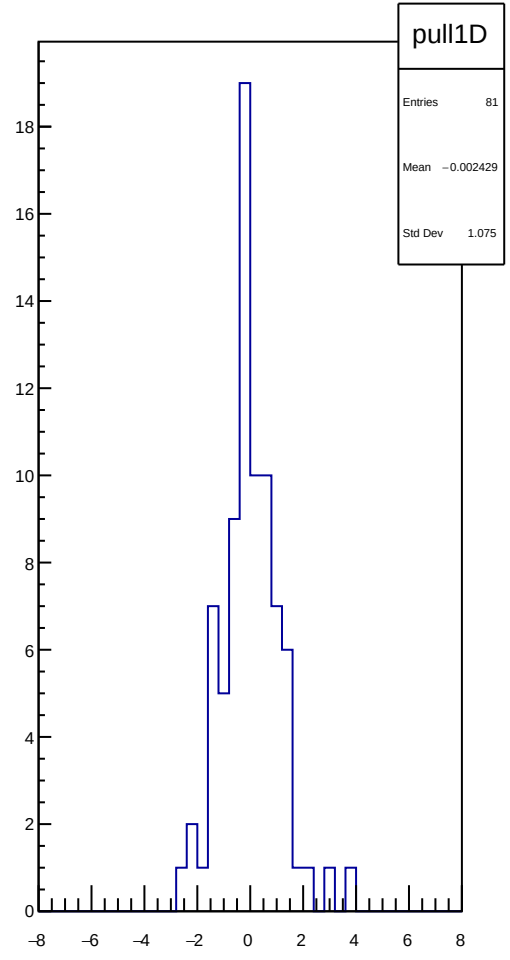

reg_asym_sam_1548_avg_rms vs run
χ^2 / ndf 9603 / 80
p0 101.9 ± 0.0818
130
125
120
115
110
105
100
95
90
85

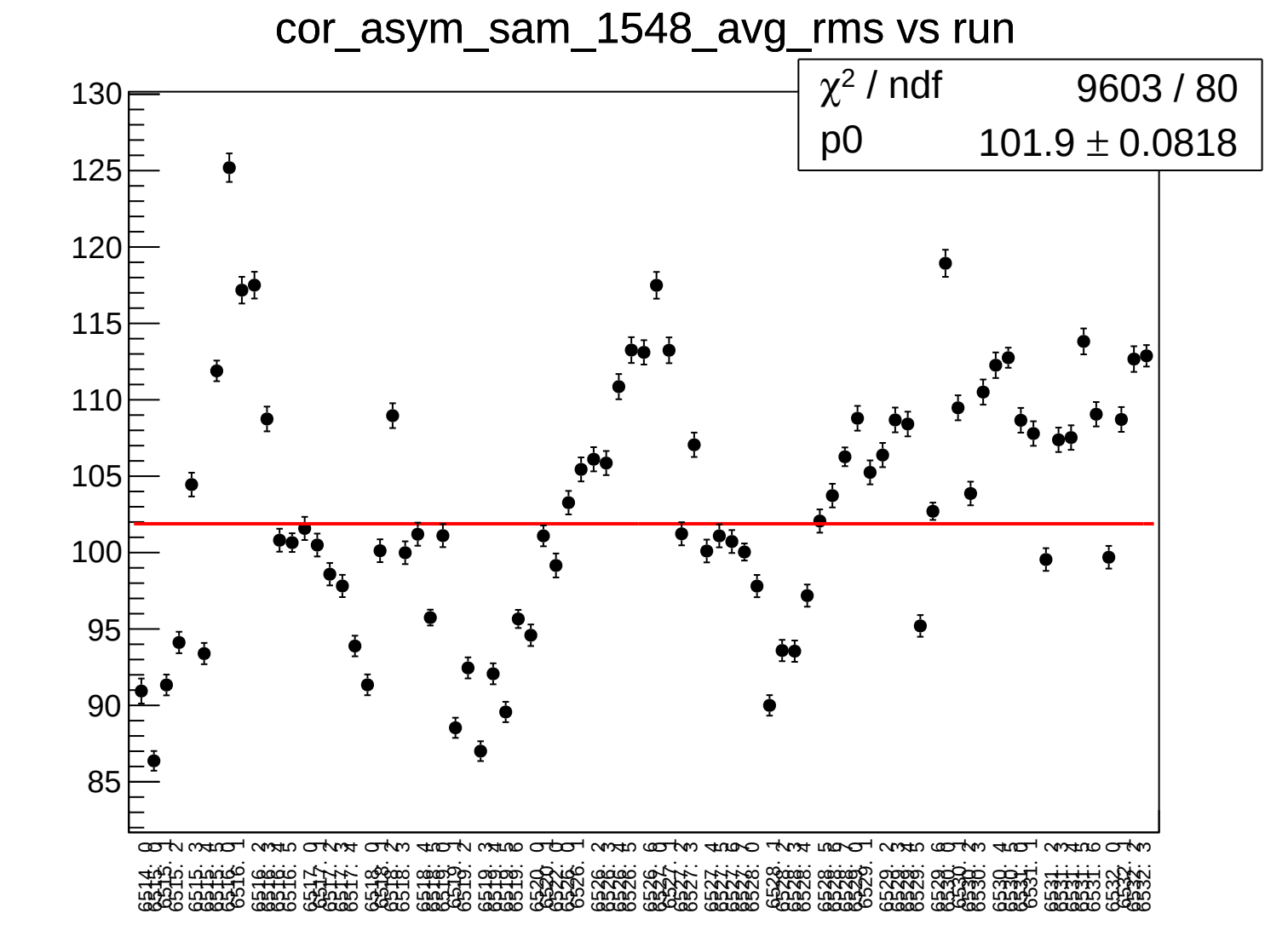

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 67.62 / 80
p0 −584.4 ± 960.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean 606.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

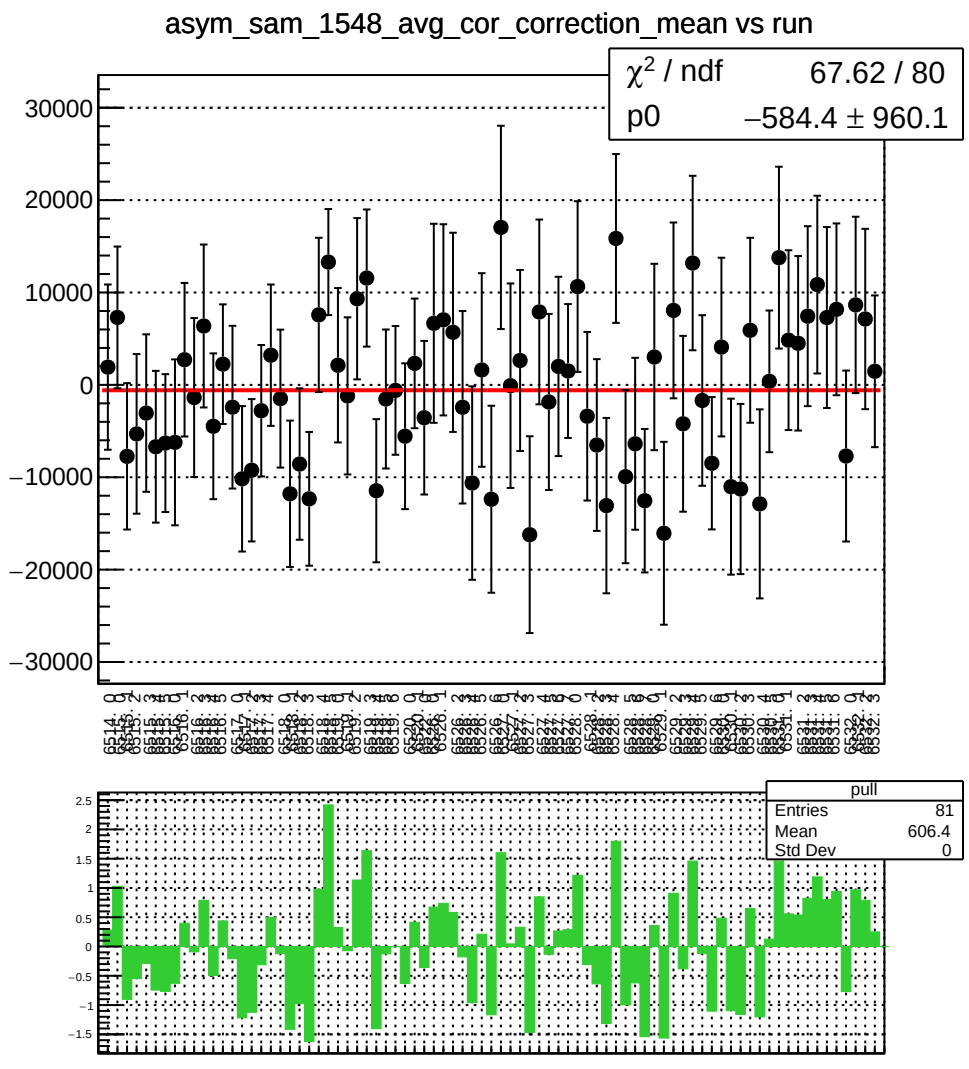

pull1D
Entries 81
Mean 0.005849
Std Dev 0.9137
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

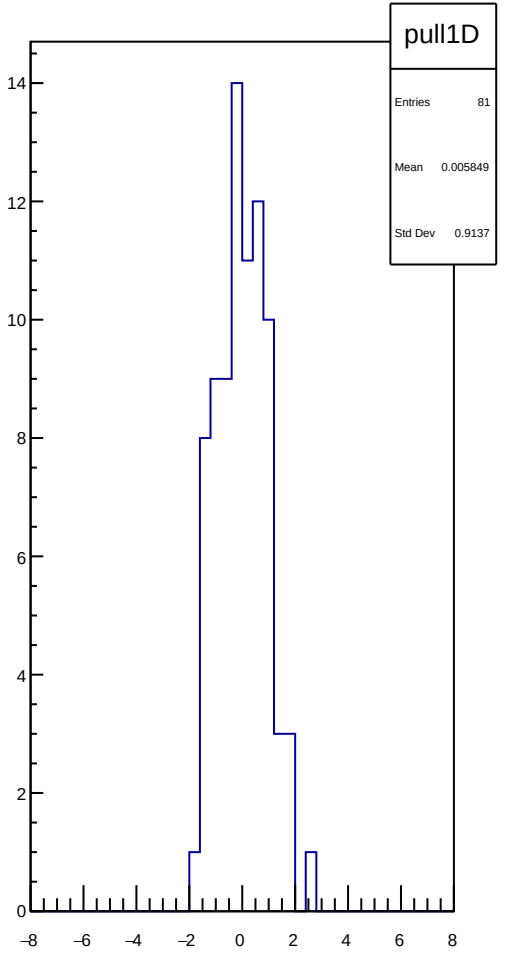

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 1.967e+04 / 80
p0 842.8 ± 0.6789
1050
1000
950
900
850
800
750
700
650

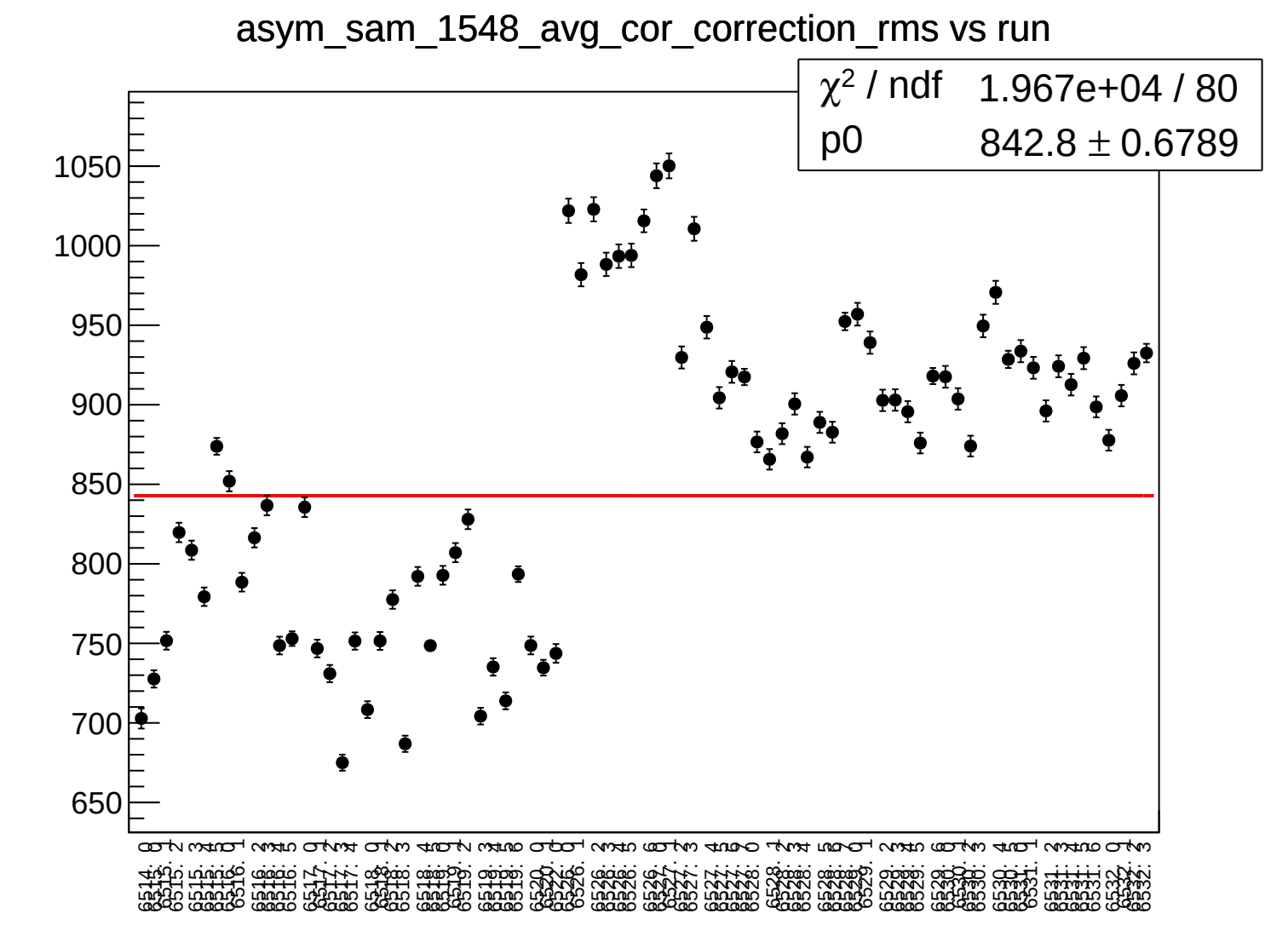

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 93.63 / 80
p0 278.9 ± 115.7
6000
4000
2000
0
−2000
−4000
pull
Entries 81
Mean −896.4
Std Dev 0
4
3
2
1
0
−1
−2

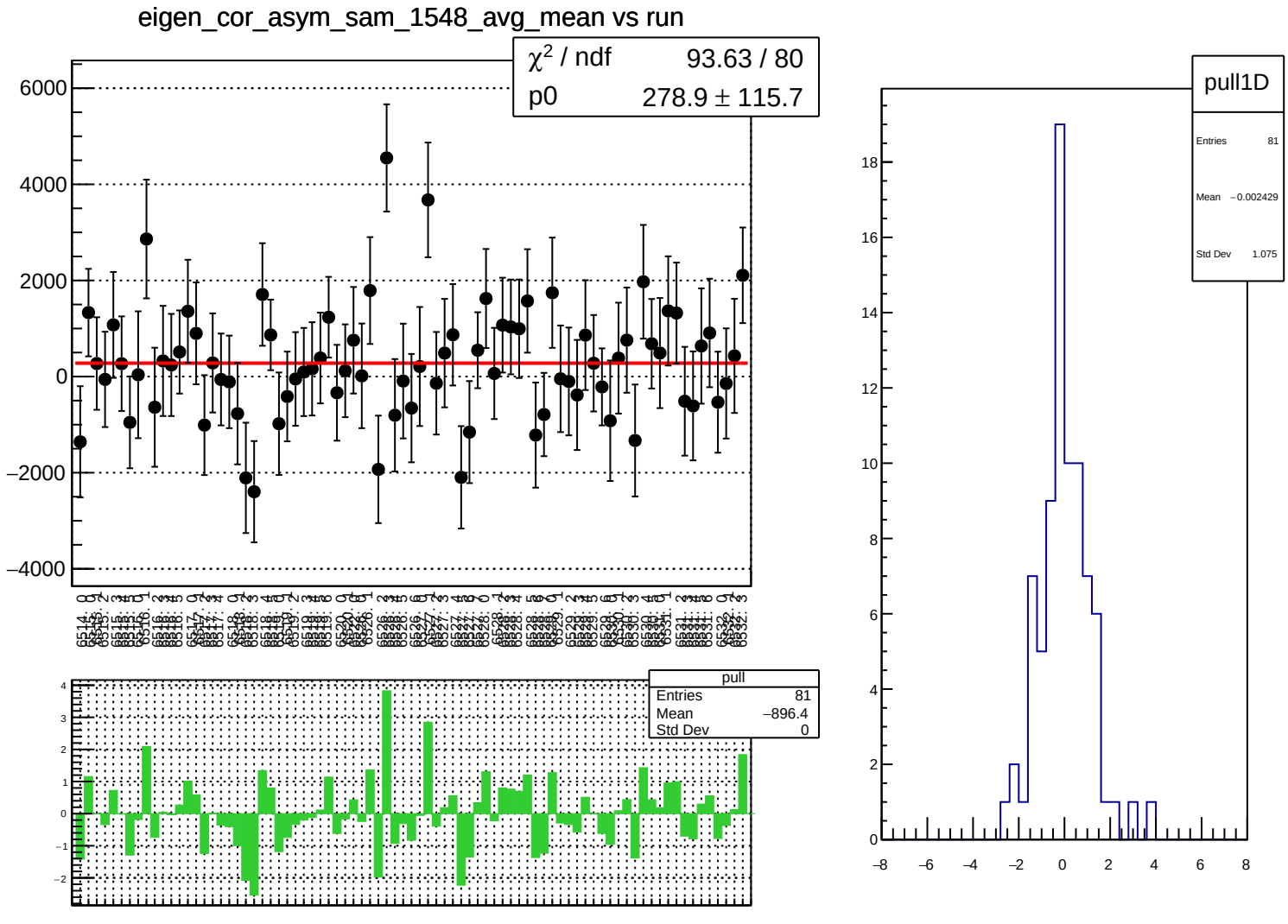

pull1D
Entries 81
Mean −0.002429
Std Dev 1.075
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

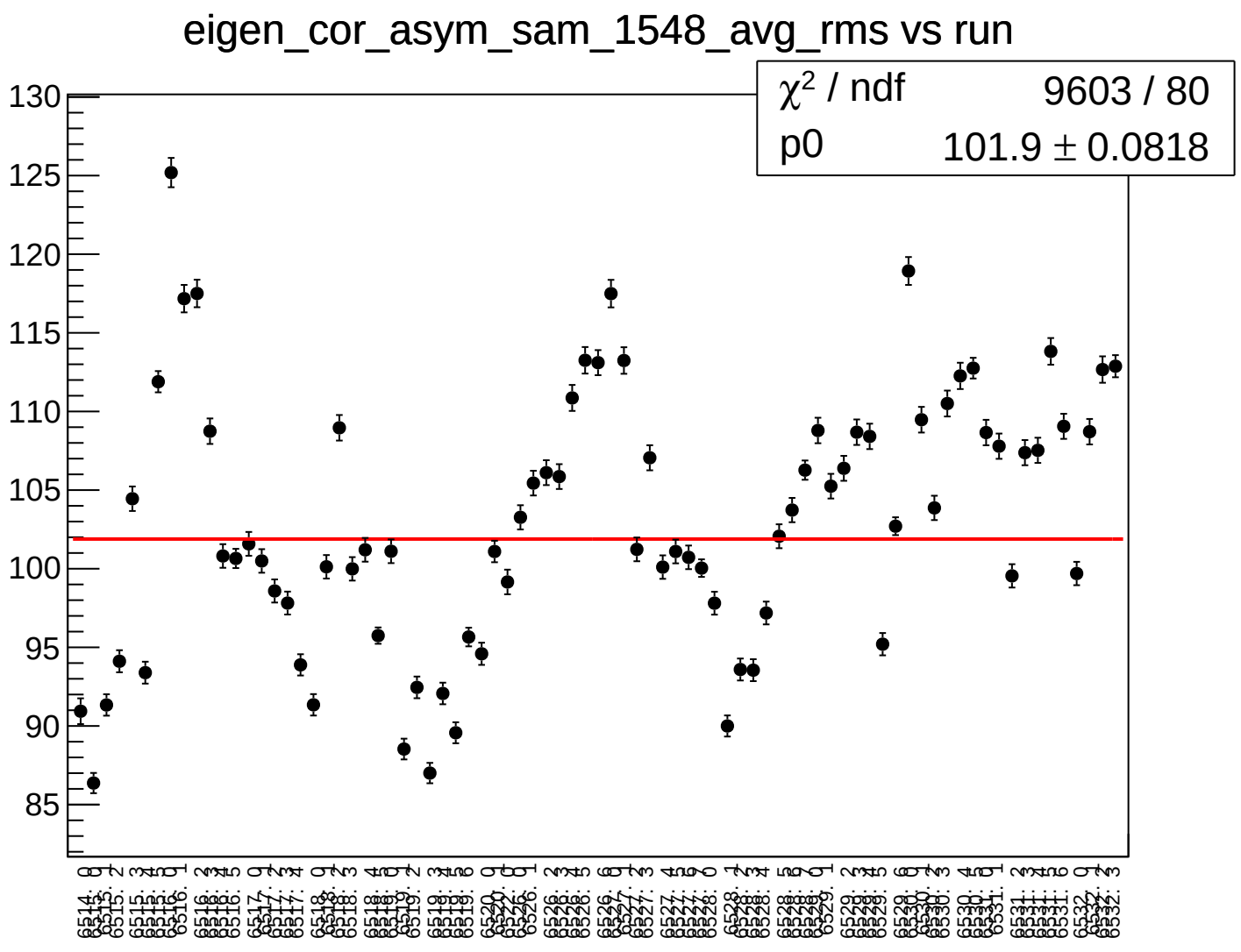

cor_asym_sam_1548_avg_rms vs run
χ² / ndf 9603 / 80
p0 101.9 ± 0.0818
130
125
120
115
110
105
100
95
90
85

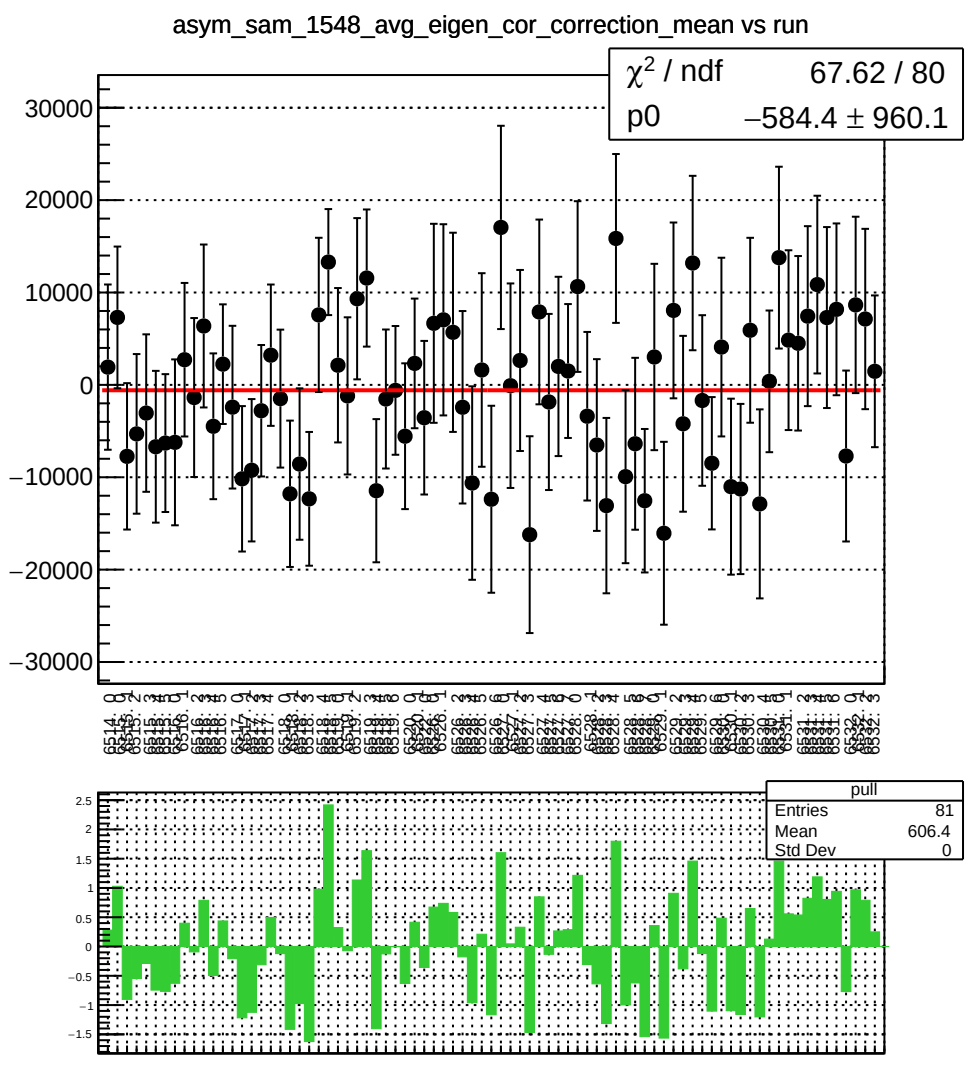

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 67.62 / 80
p0 −584.4 ± 960.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean 606.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

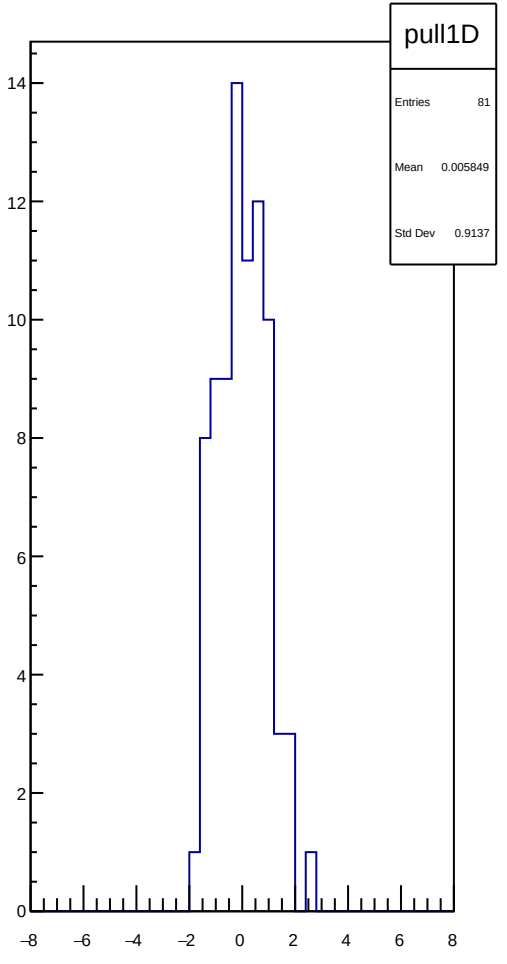

pull1D
Entries 81
Mean 0.005849
Std Dev 0.9137
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

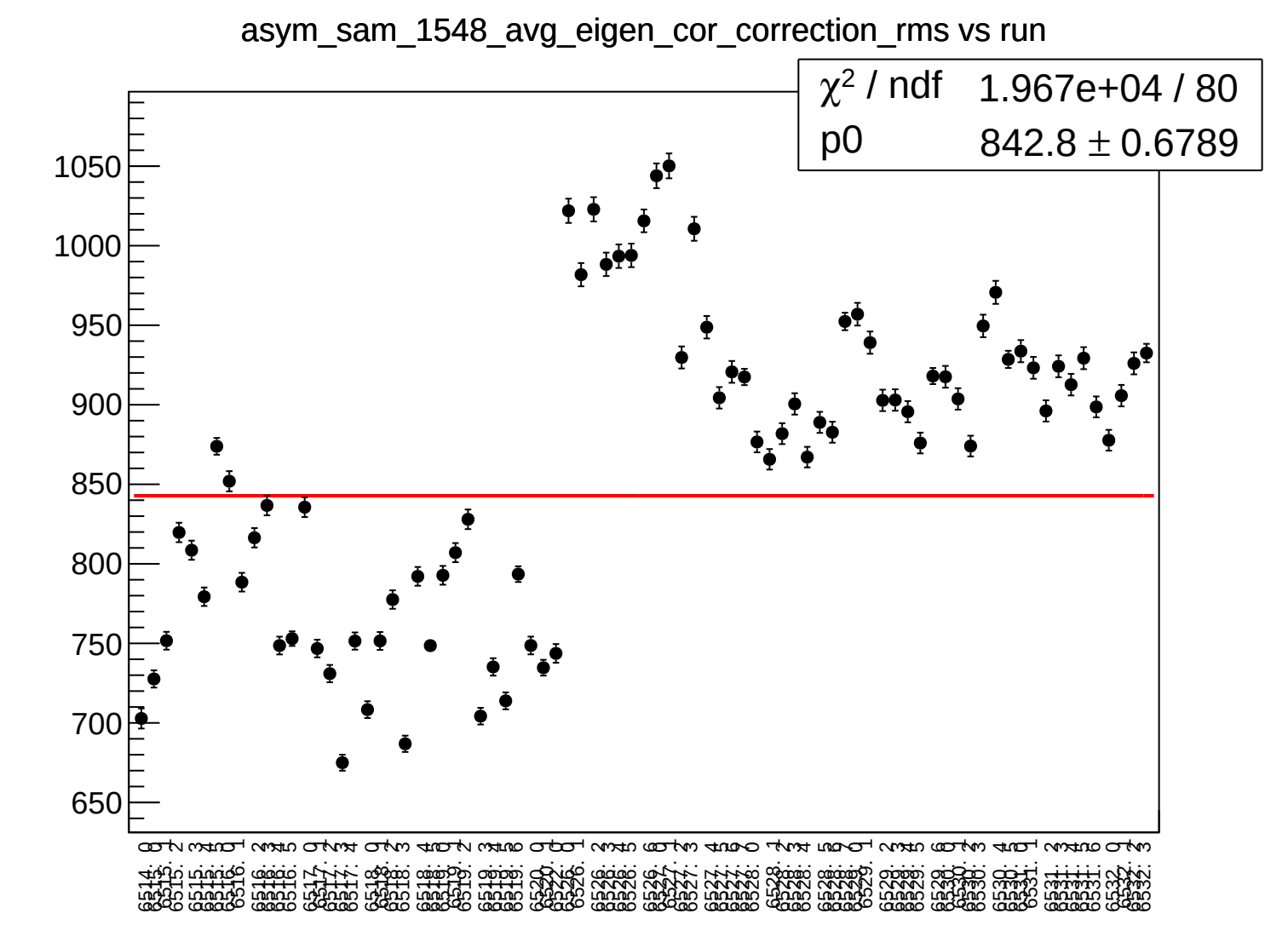

asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 1.967e+04 / 80
p0 842.8 ± 0.6789
1050
1000
950
900
850
800
750
700
650

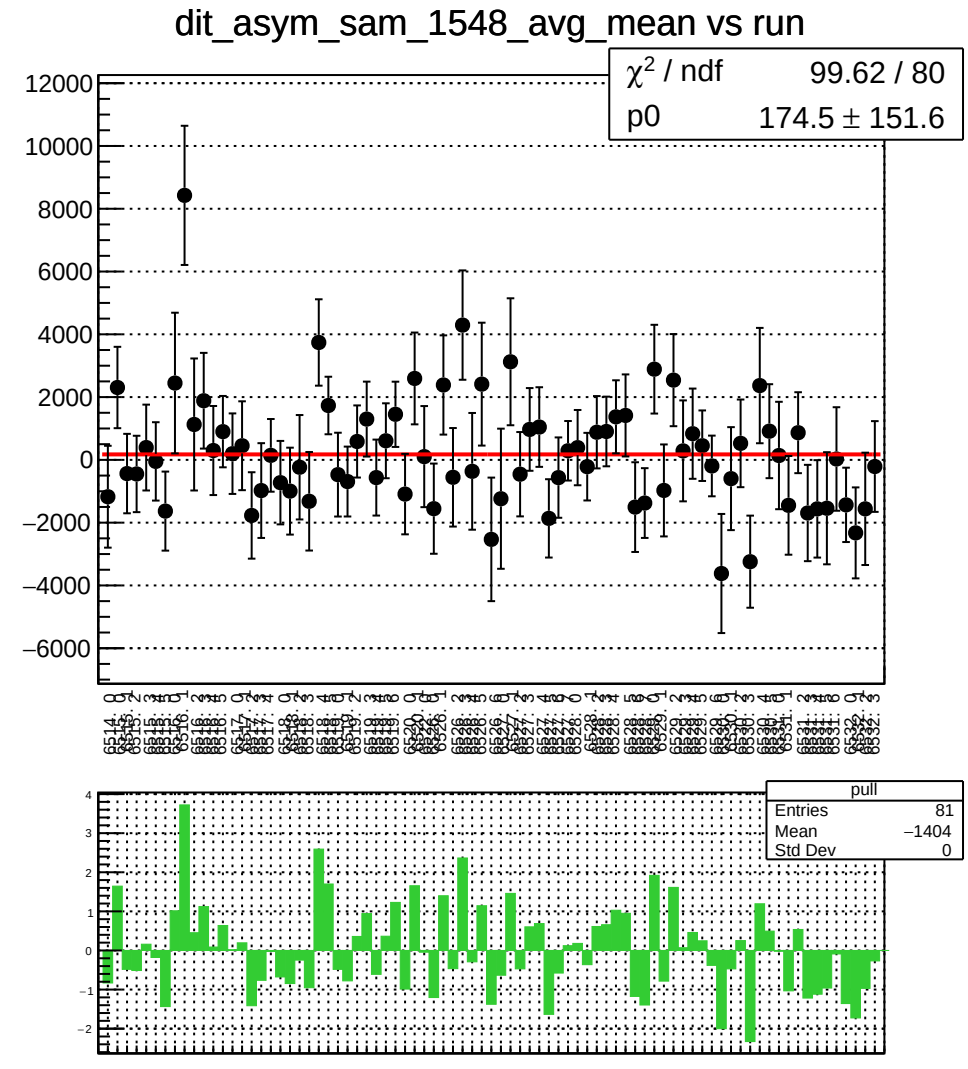

eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 93.63 / 80
p0 278.9 ± 115.7
6000
4000
2000
0
−2000
−4000
pull
Entries 81
Mean −896.4
Std Dev 0
pull1D
Entries 81
Mean −0.002429
Std Dev 1.075
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

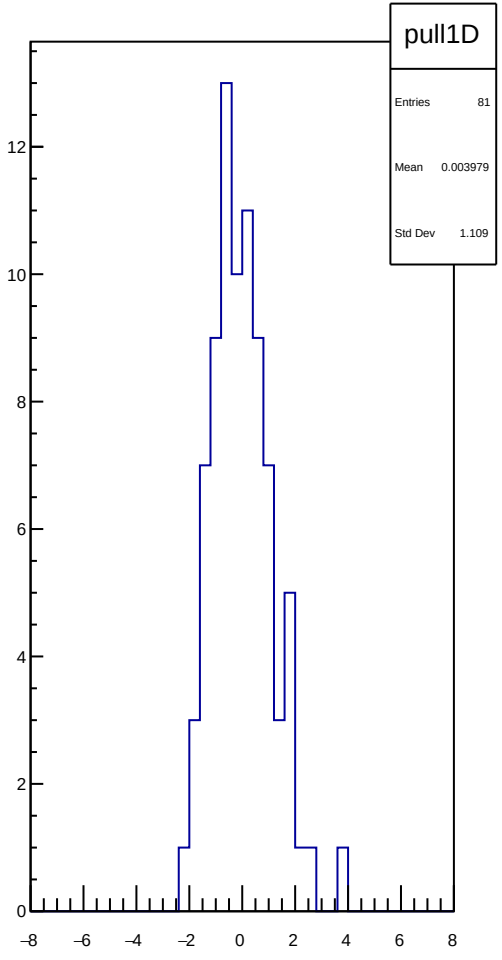

eigen_cor_asym_sam_1548_avg_rms vs run
χ² / ndf 9603 / 80
p0 101.9 ± 0.0818
130
125
120
115
110
105
100
95
90
85

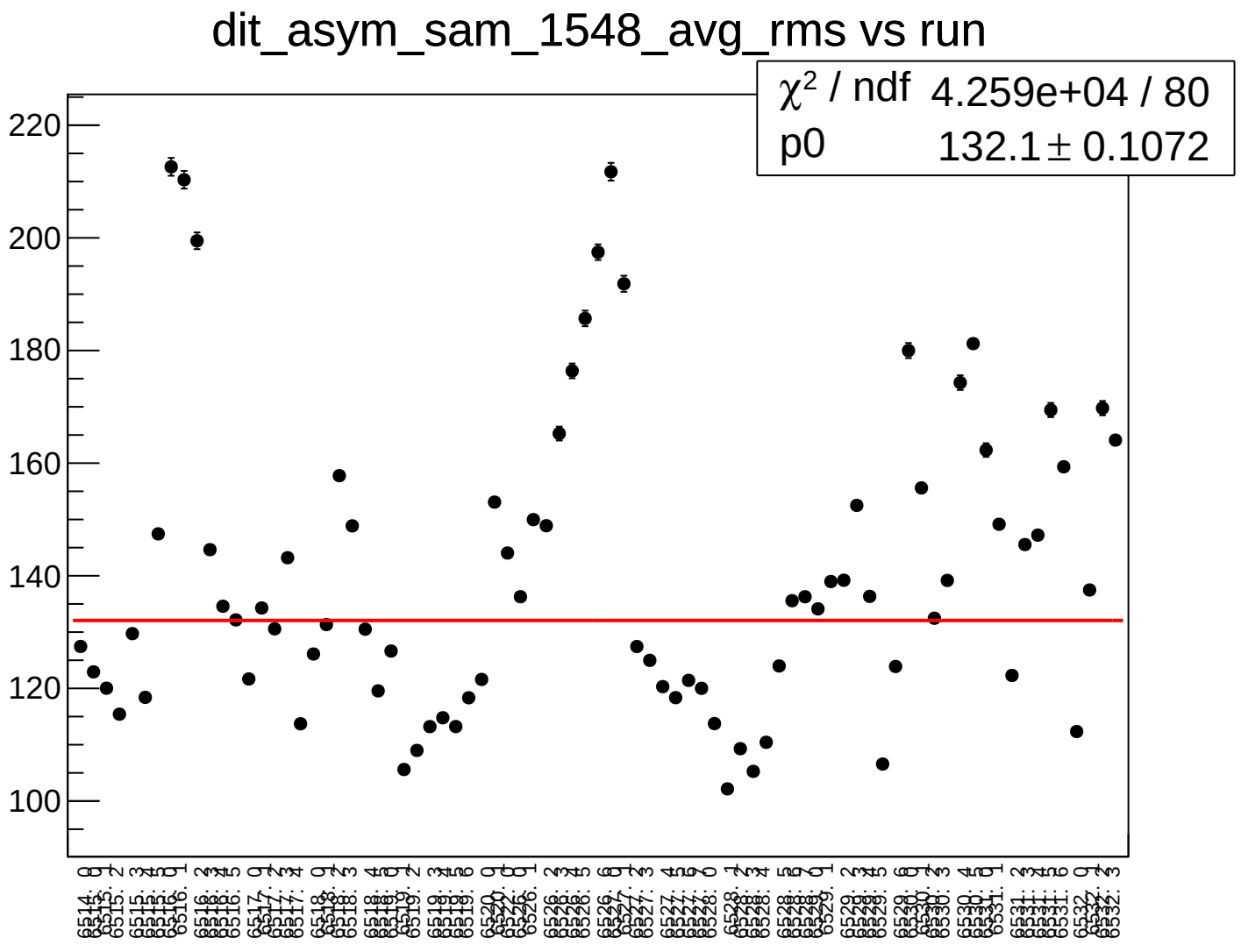

asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 67.62 / 80
p0 −584.4 ± 960.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean 606.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

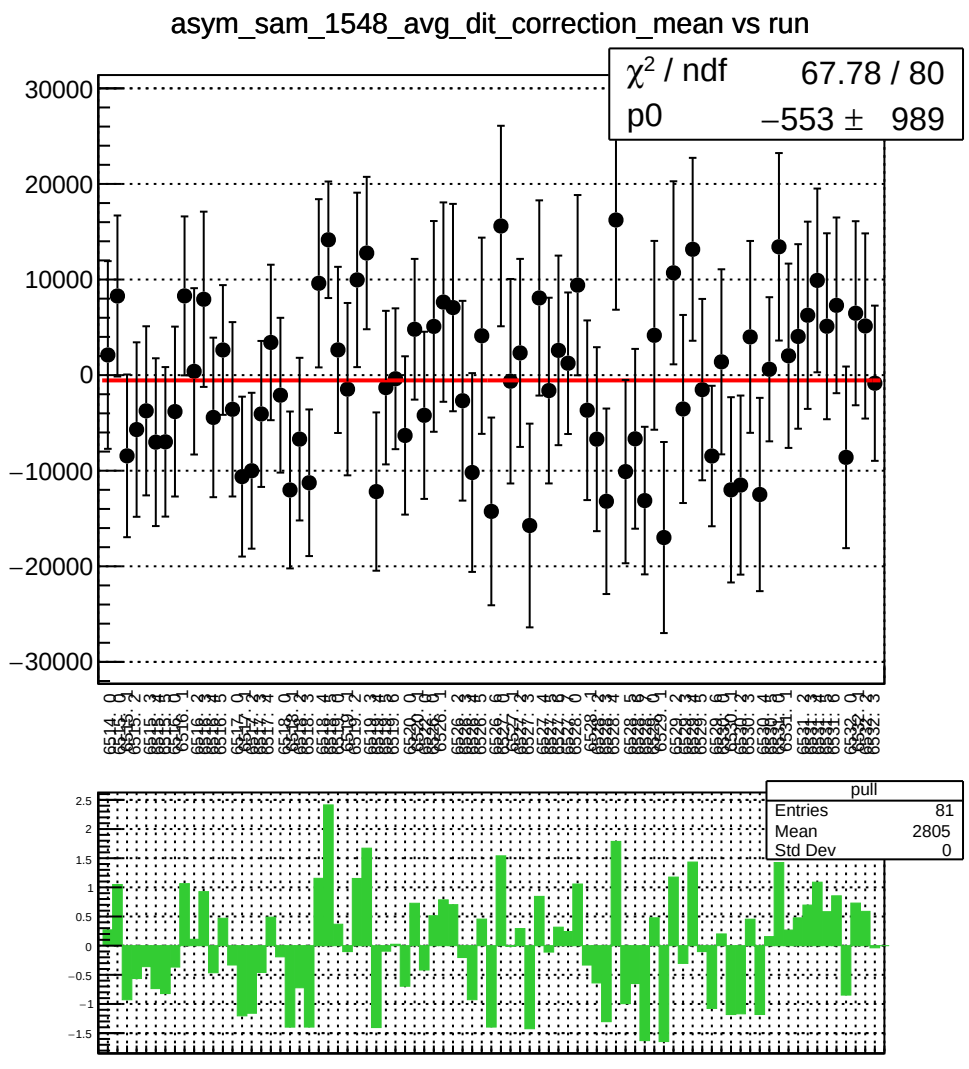

pull1D
Entries 81
Mean 0.005849
Std Dev 0.9137
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

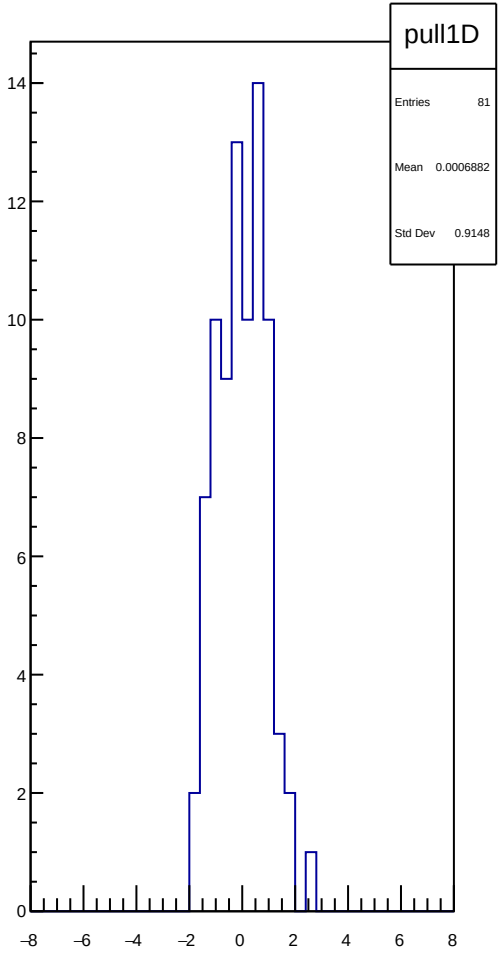

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.967e+04 / 80
p0 842.8 ± 0.6789
1050
1000
950
900
850
800
750
700
650

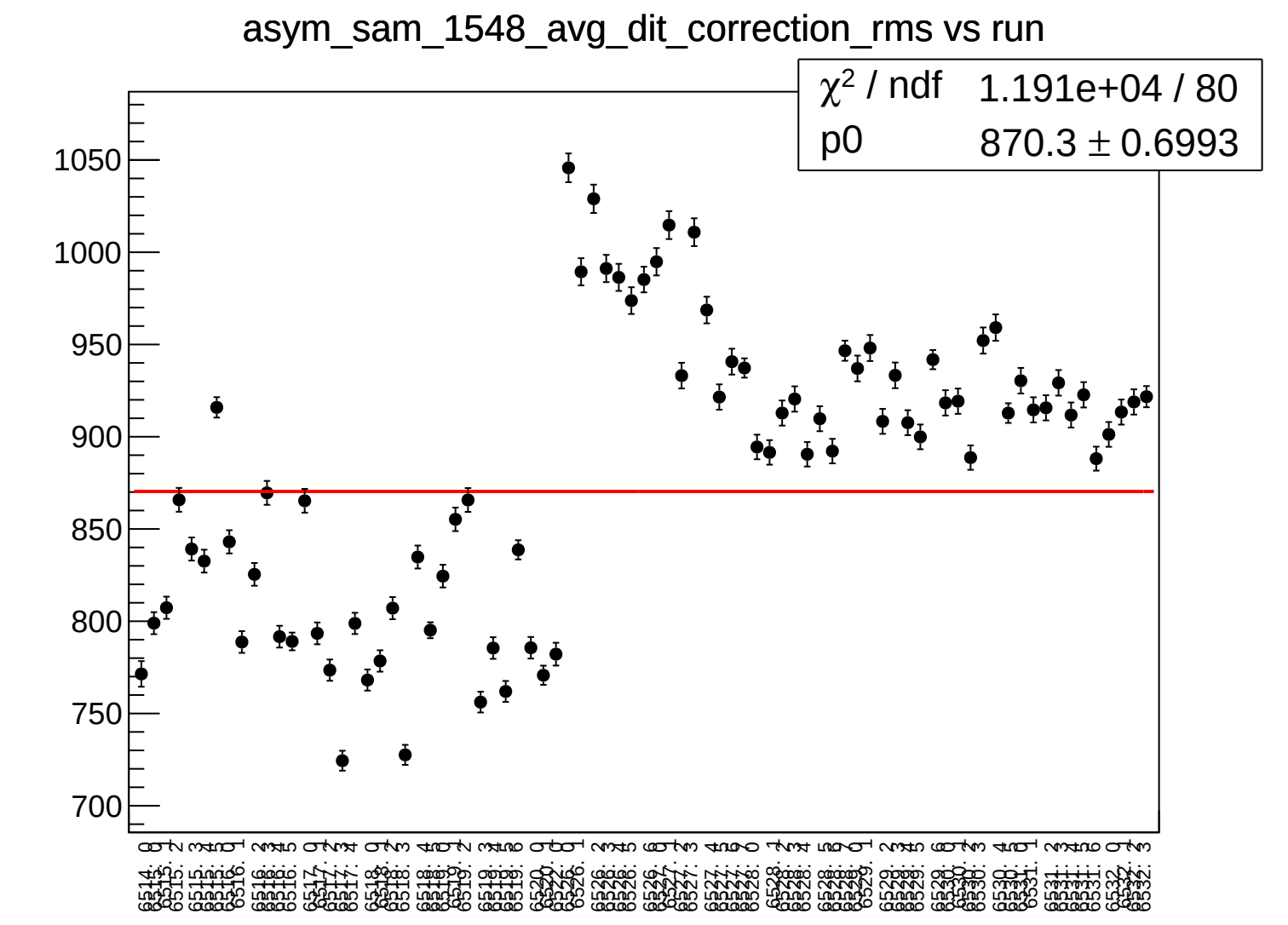

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 99.62 / 80
p0 174.5 ± 151.6
pull
Entries 81
Mean −1404
Std Dev 0

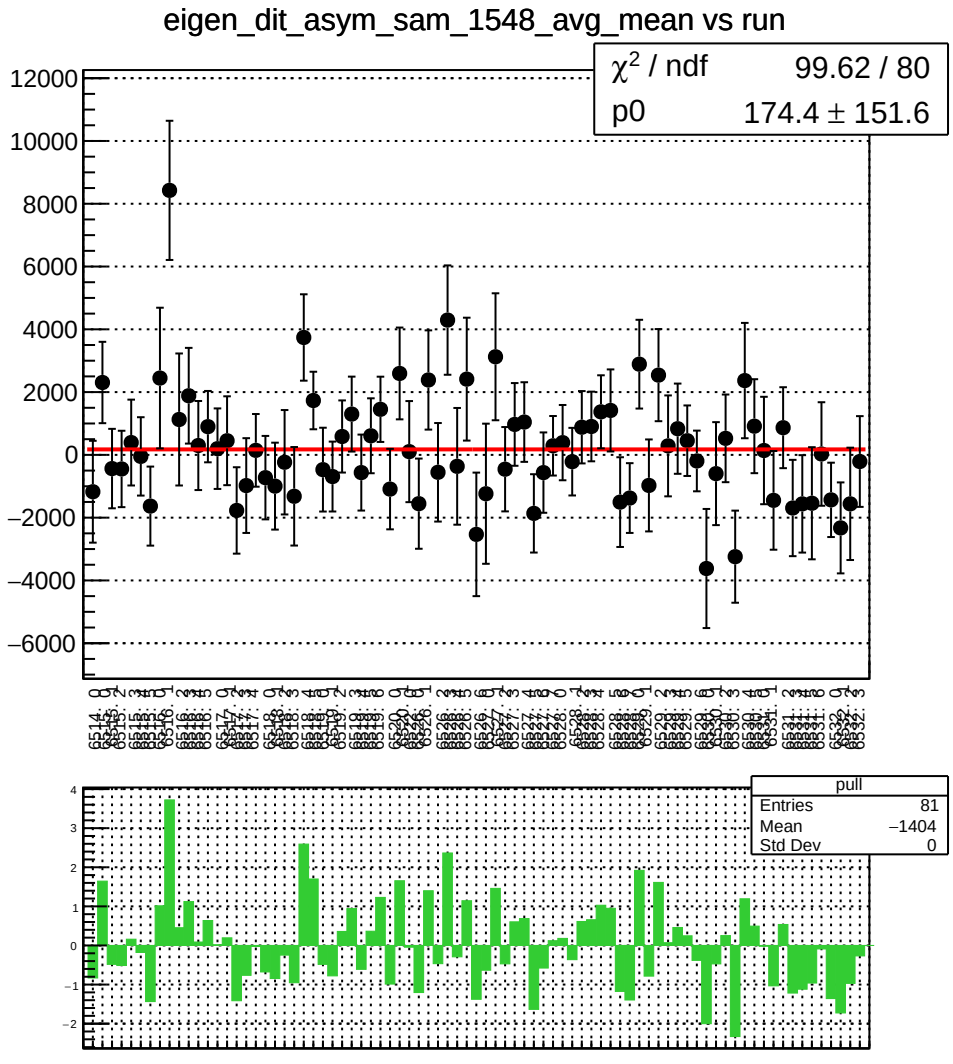

pull1D
Entries 81
Mean 0.003979
Std Dev 1.109

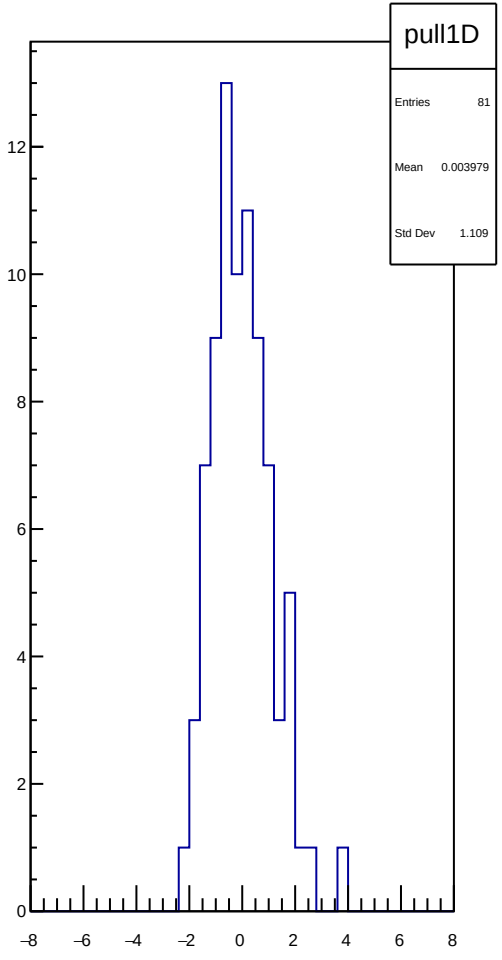

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 4.259e+04 / 80
p0 132.1 ± 0.1072
220
200
180
160
140
120
100

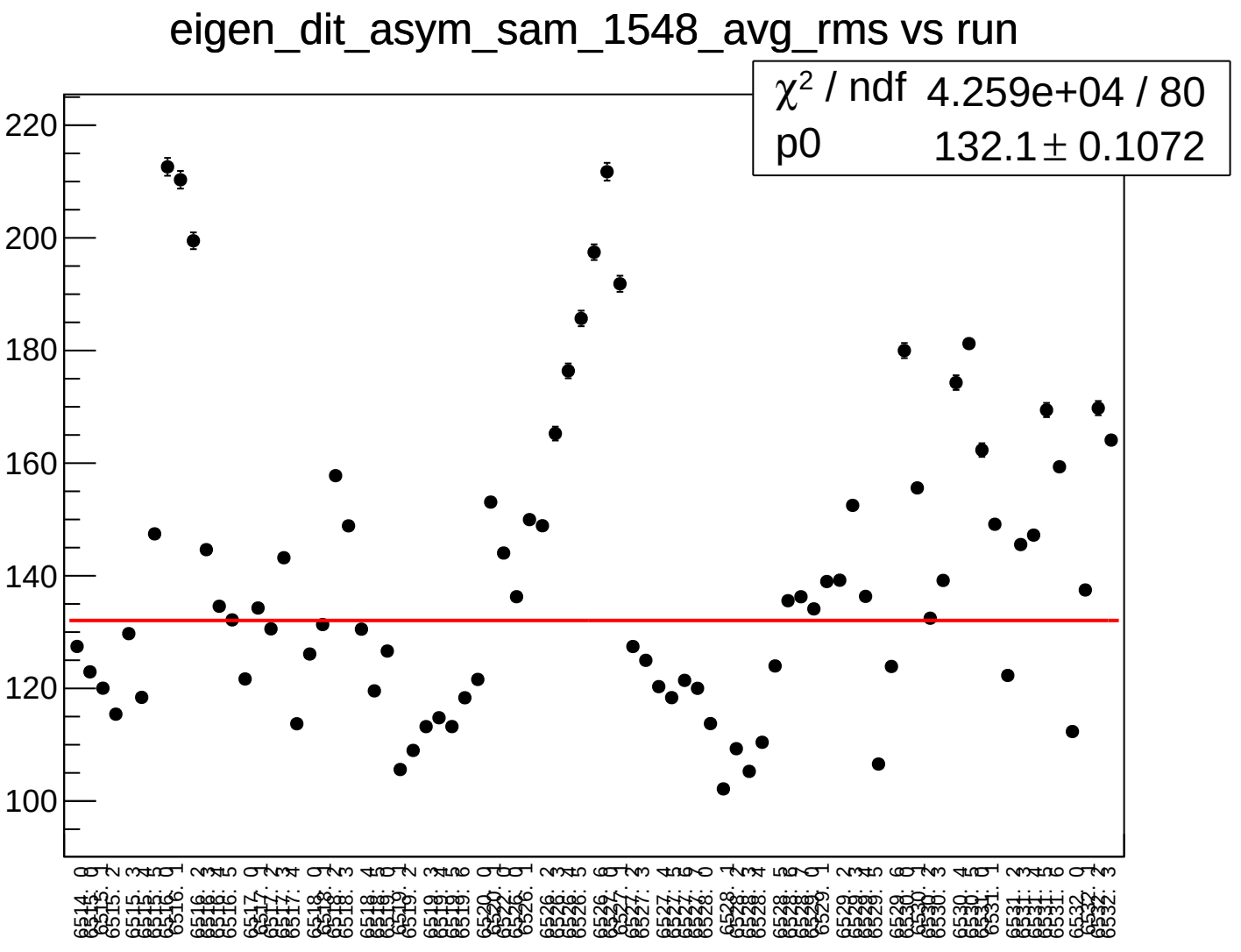

asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 67.78 / 80
p0 −553 ± 989
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean 2805
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

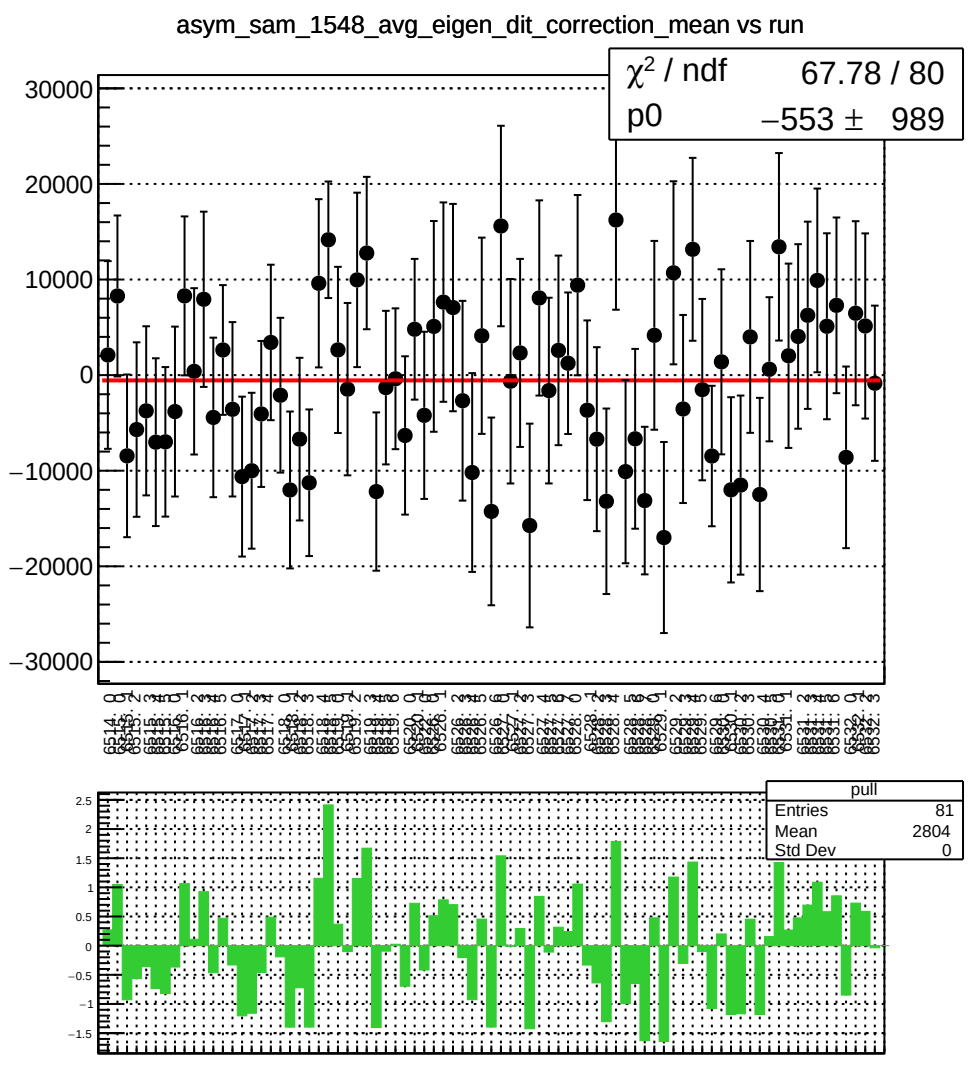

pull1D
Entries 81
Mean 0.0006882
Std Dev 0.9148
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

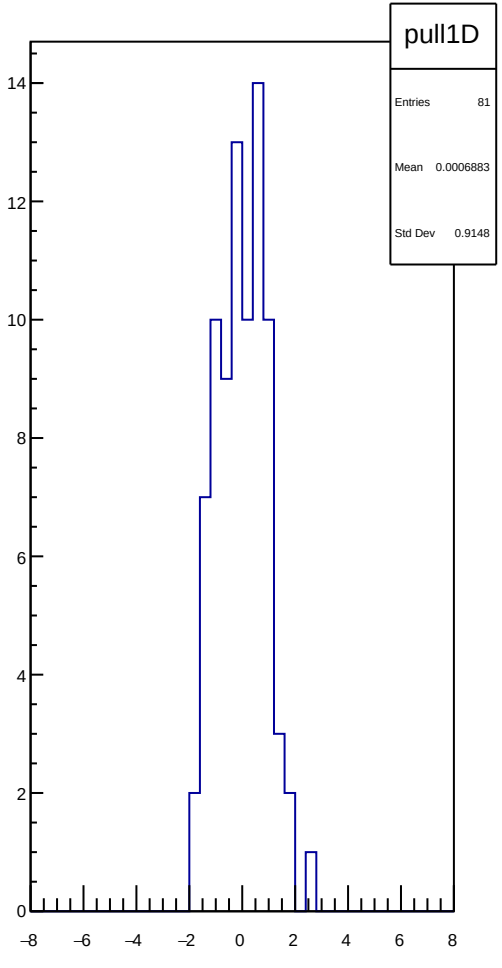

asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 1.191e+04 / 80
p0 870.3 ± 0.6993
1050
1000
950
900
850
800
750
700

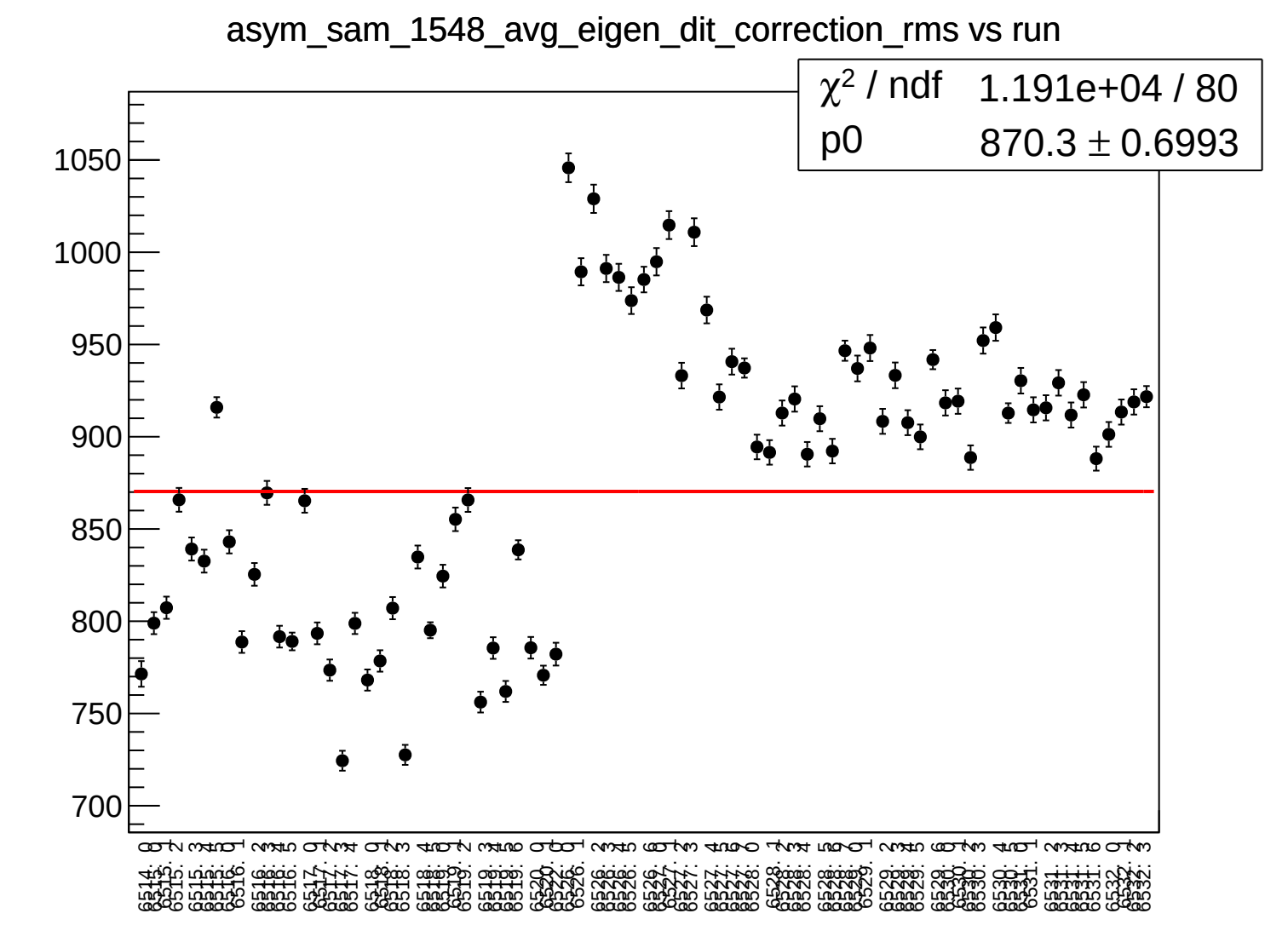

eigen_dit_asym_sam_1548_avg_mean vs run
χ^2 / ndf 99.62 / 80
p0 174.4 ± 151.6
pull
Entries 81
Mean −1404
Std Dev 0

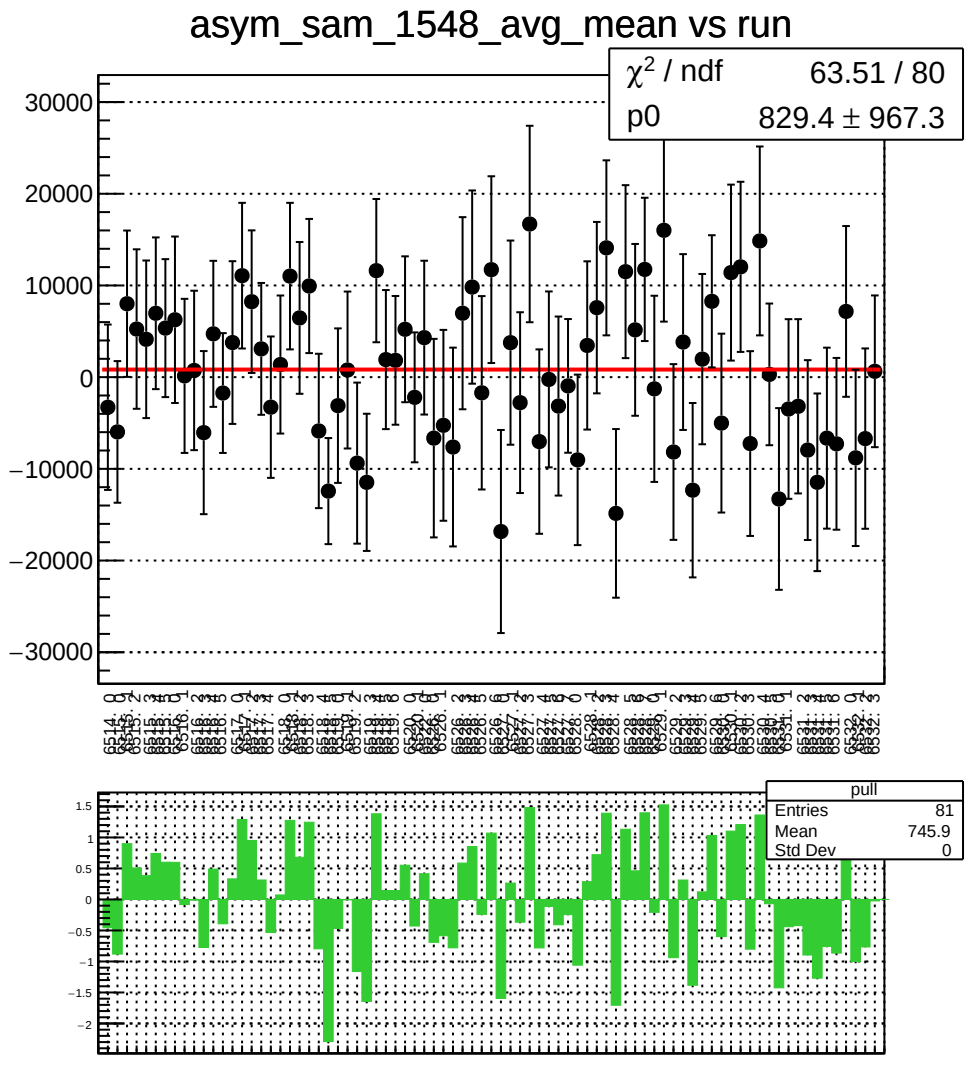

pull1D
Entries 81
Mean 0.003979
Std Dev 1.109

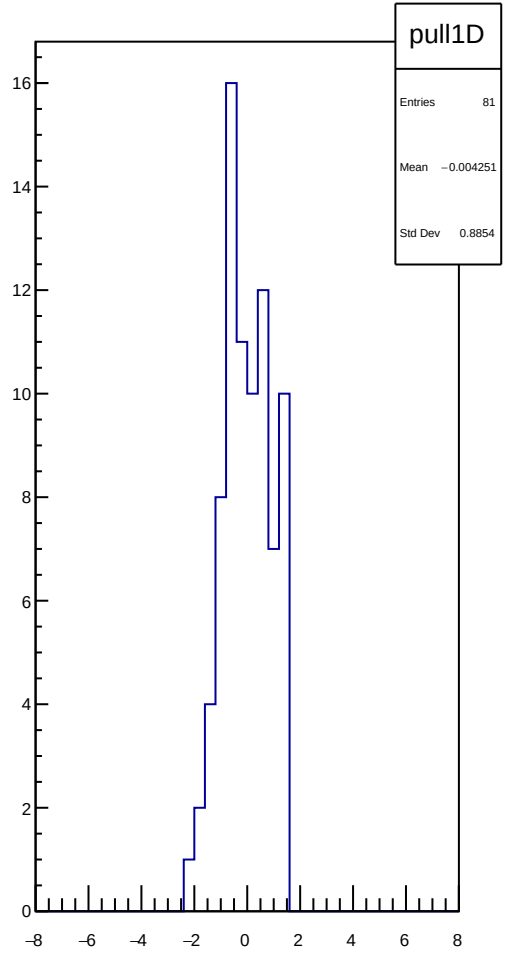

eigen_dit_asym_sam_1548_avg_rms vs run
χ² / ndf 4.259e+04 / 80
p0 132.1 ± 0.1072
220
200
180
160
140
120
100

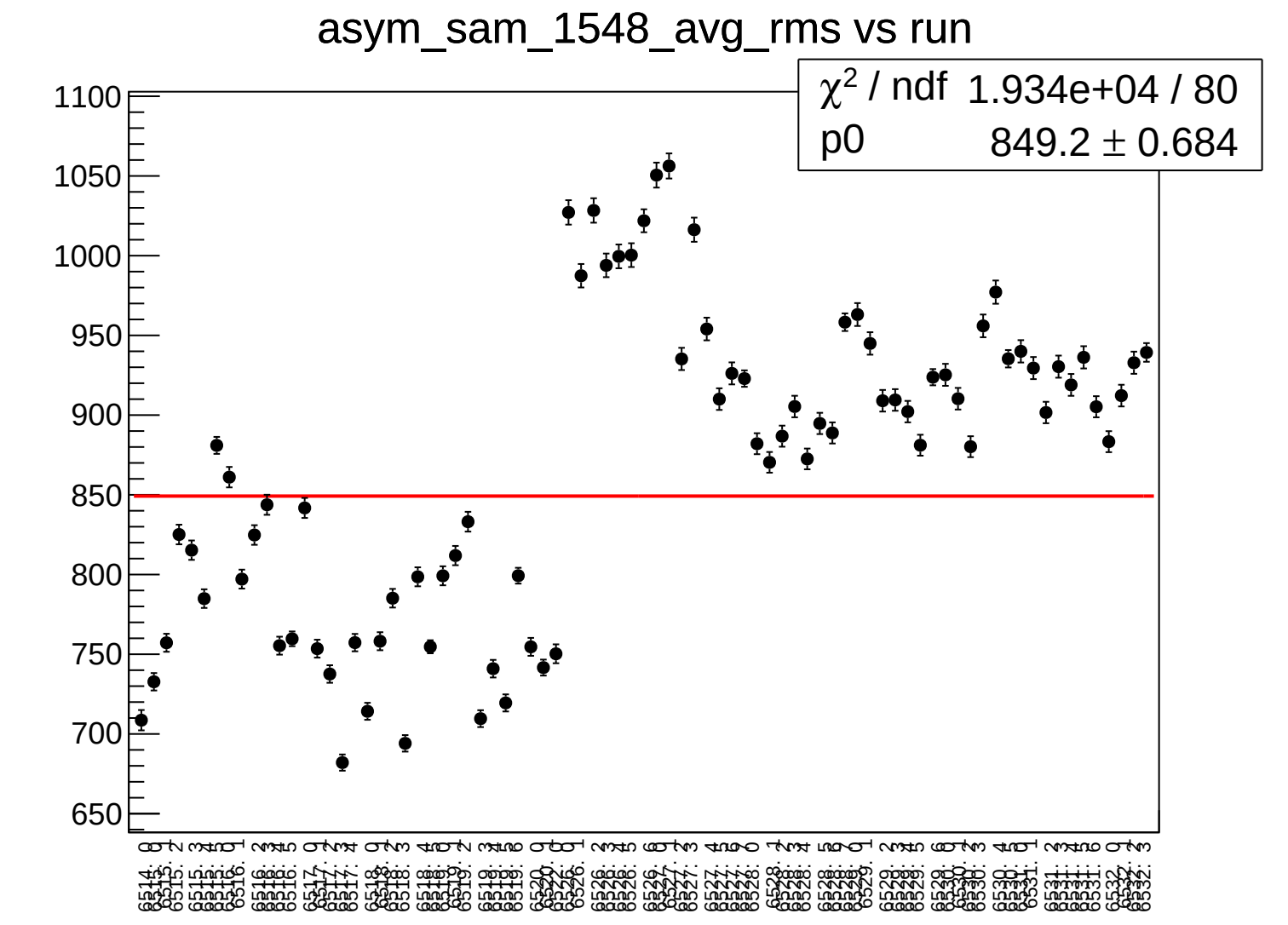

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 67.78 / 80
p0 −553 ± 989
pull
Entries 81
Mean 2804
Std Dev 0

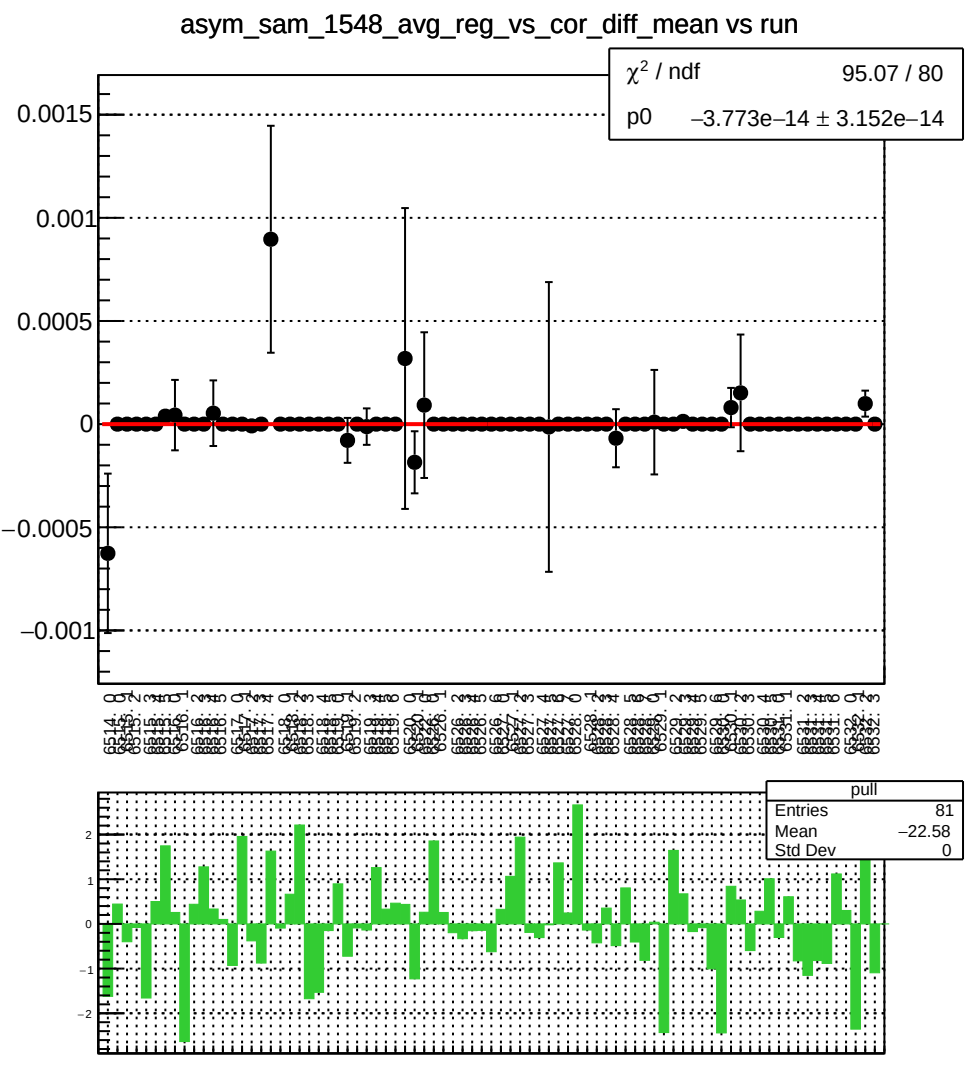

pull1D
Entries 81
Mean 0.0006883
Std Dev 0.9148

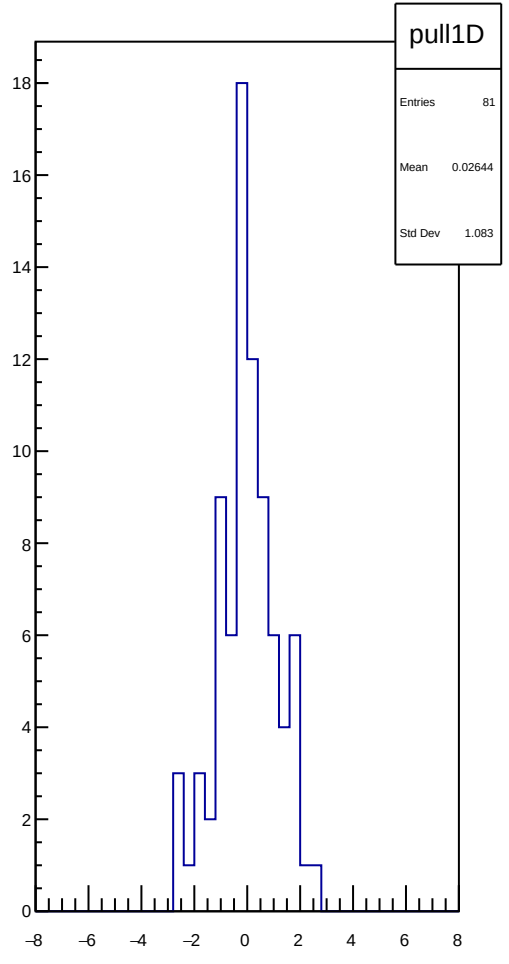

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.191e+04 / 80
p0 870.3 ± 0.6993
1050
1000
950
900
850
800
750
700

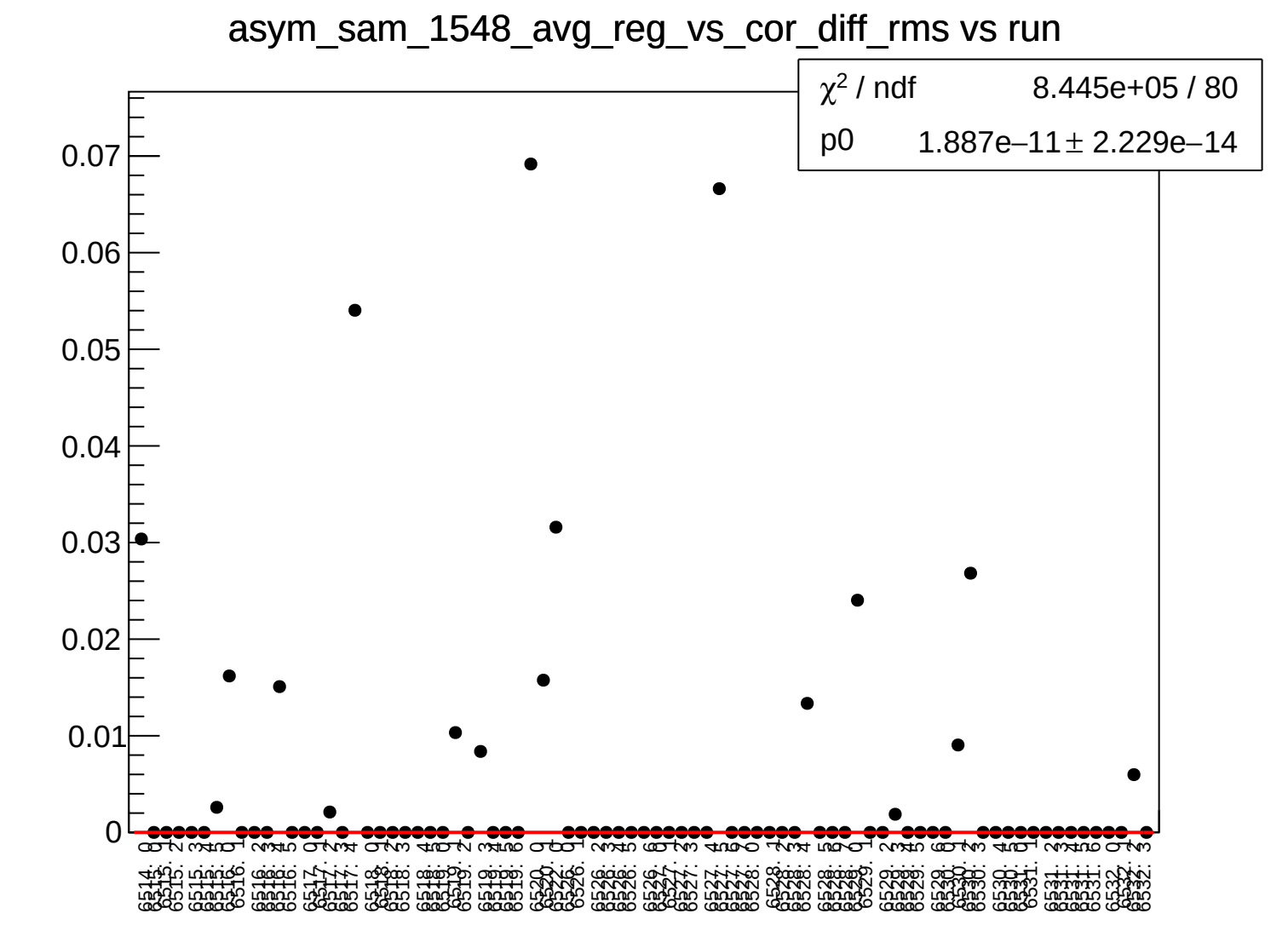

asym_sam_1548_avg_mean vs run
χ² / ndf 63.51 / 80
p0 829.4 ± 967.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean 745.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

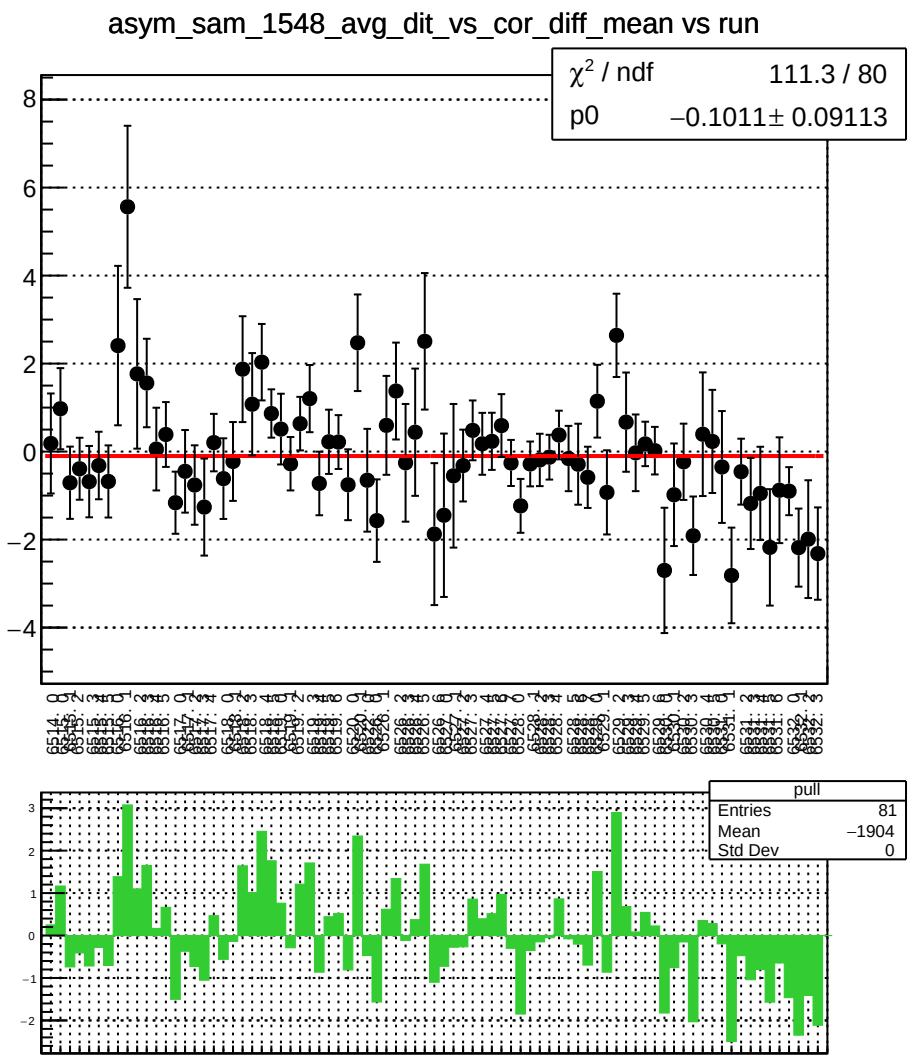

pull1D
Entries 81
Mean −0.004251
Std Dev 0.8854
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

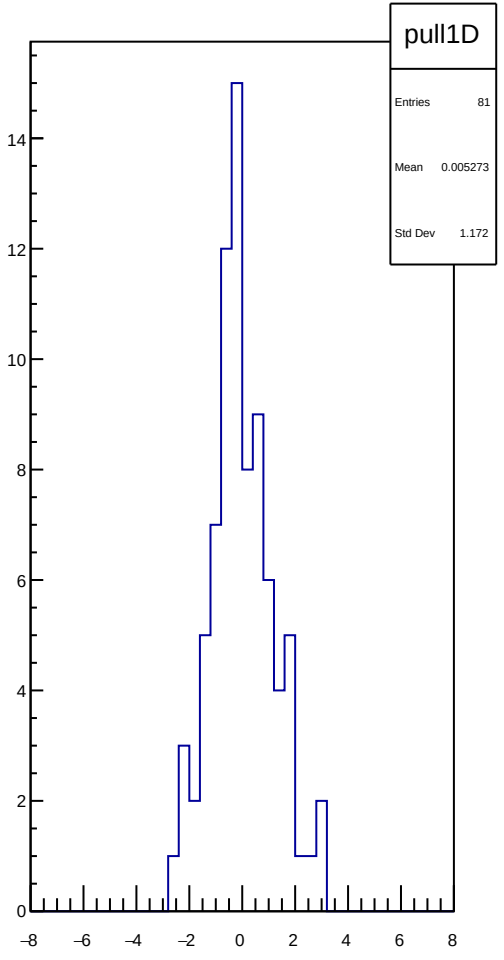

asym_sam_1548_avg_rms vs run
χ² / ndf 1.934e+04 / 80
p0 849.2 ± 0.684
1100
1050
1000
950
900
850
800
750
700
650

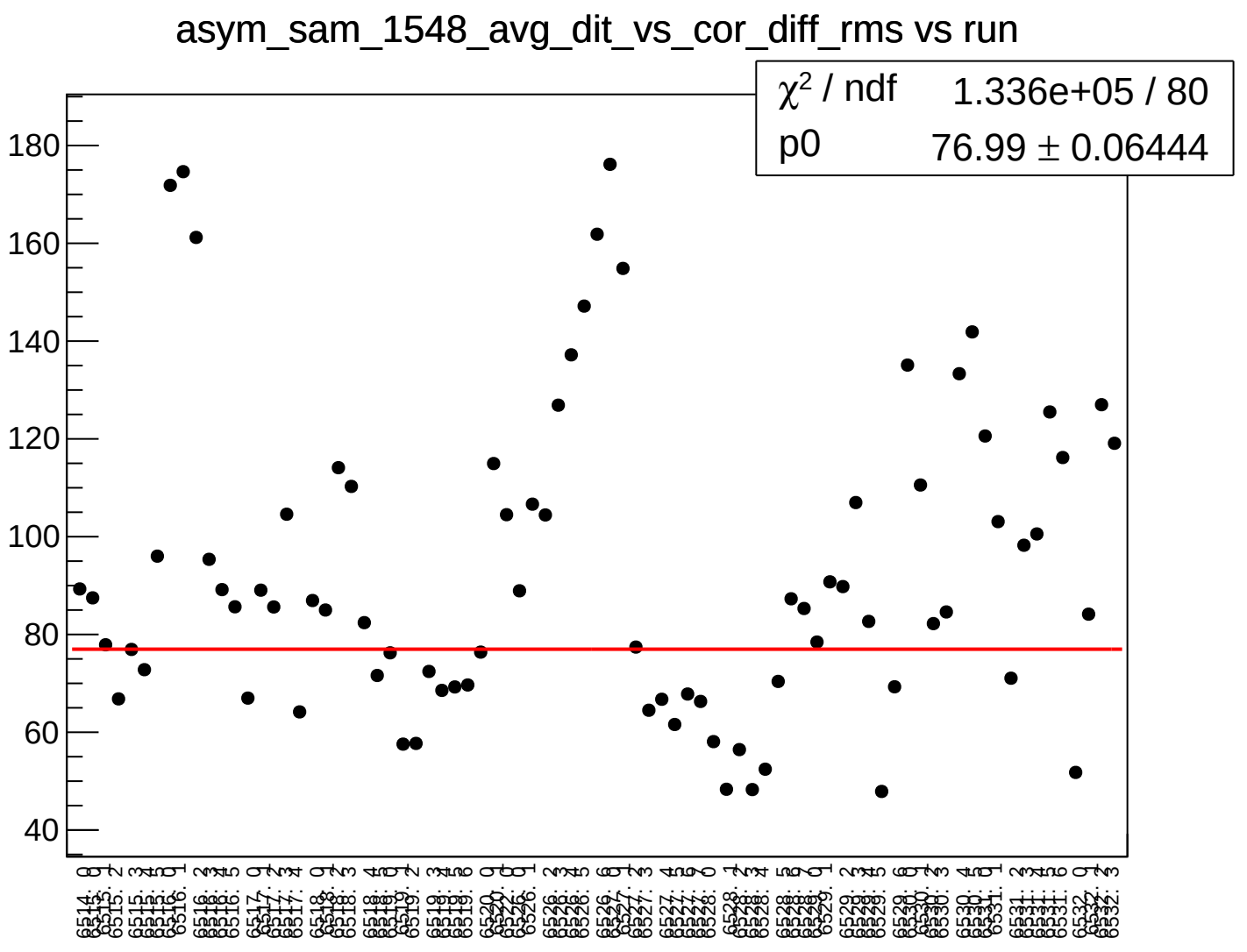

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 95.07 / 80
p0 −3.773e−14 ± 3.152e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 81
Mean −22.58
Std Dev 0
2
1
0
−1
−2

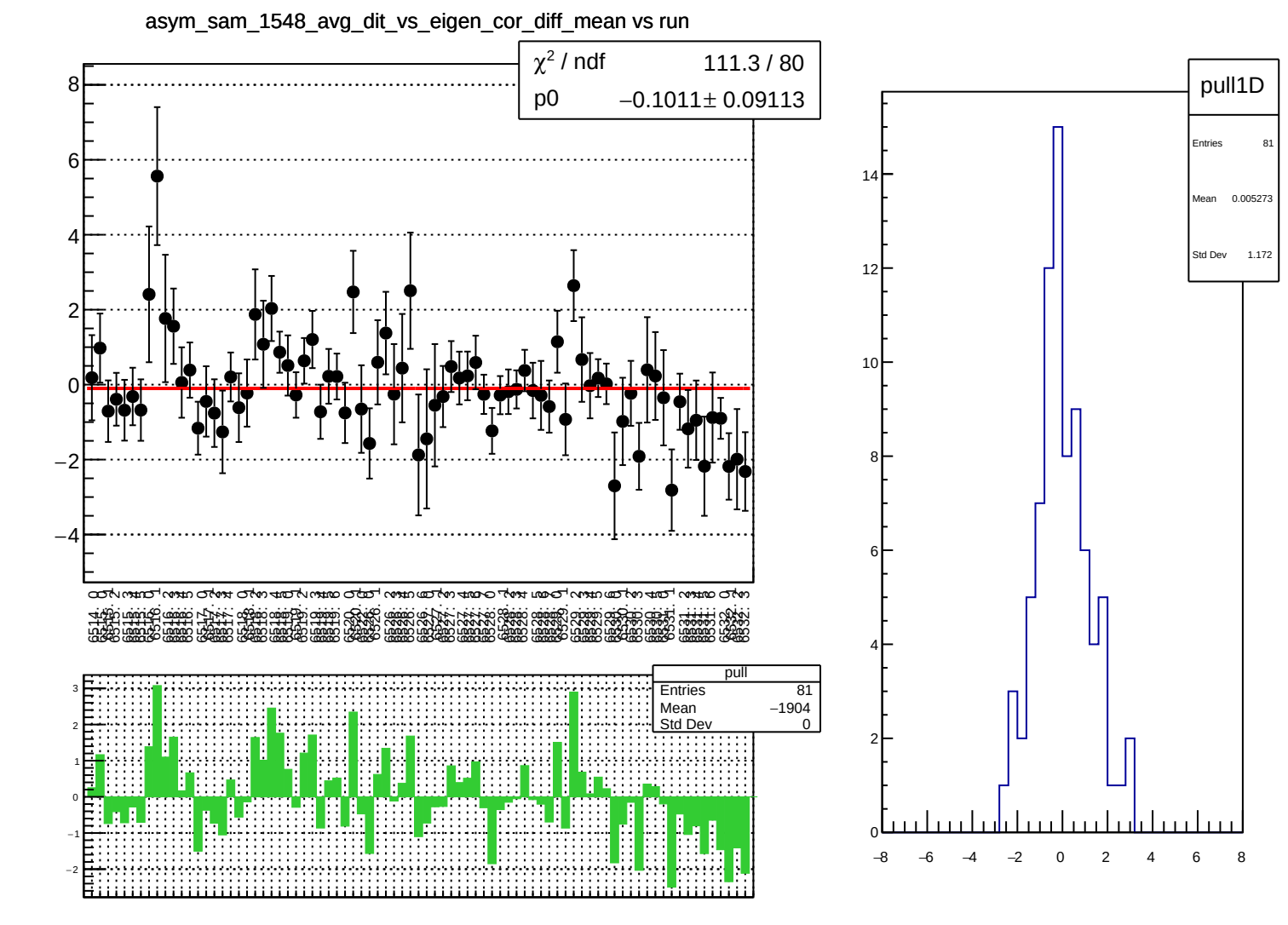

pull1D
Entries 81
Mean 0.02644
Std Dev 1.083
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

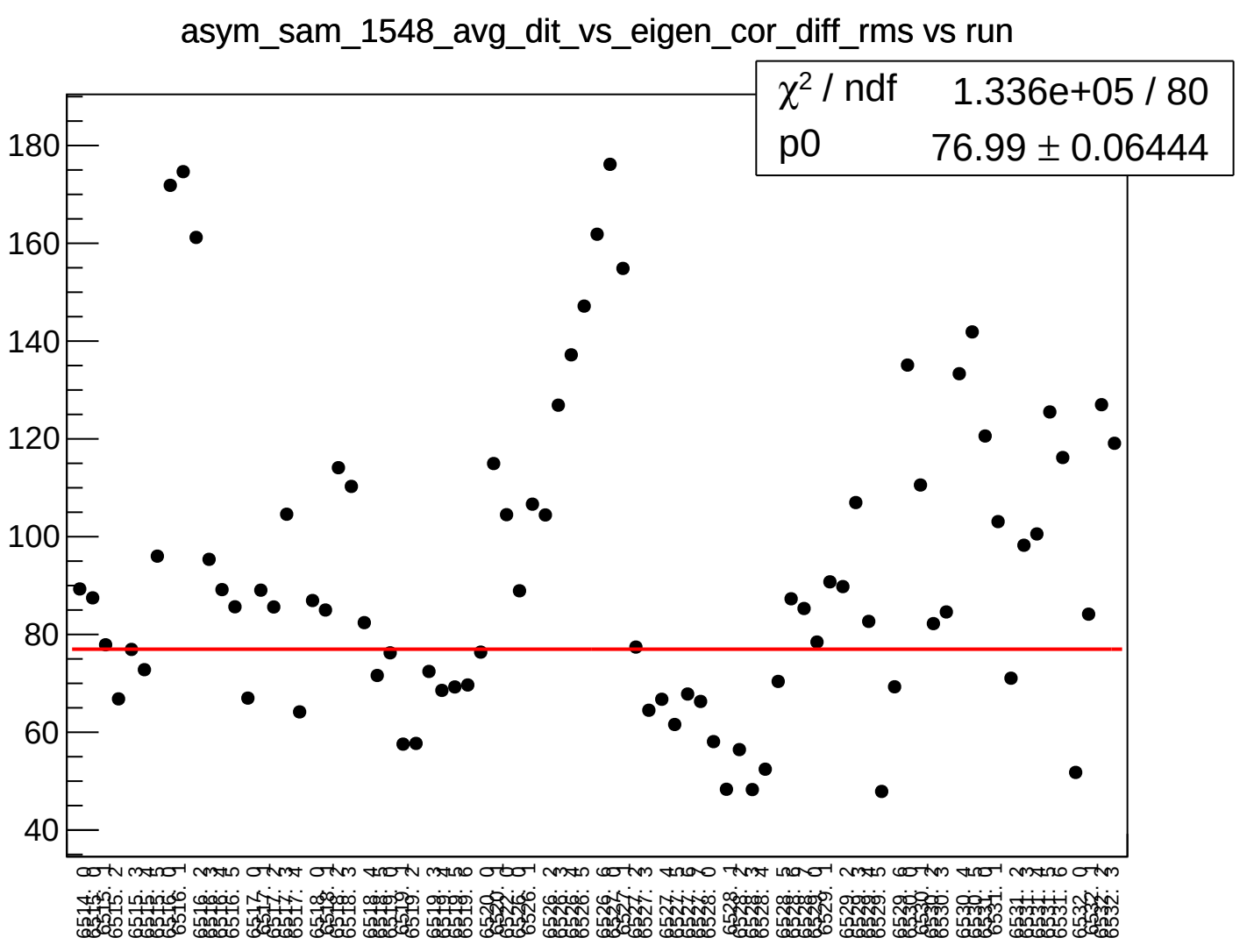

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.445e+05 / 80
p0 1.887e−11 ± 2.229e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

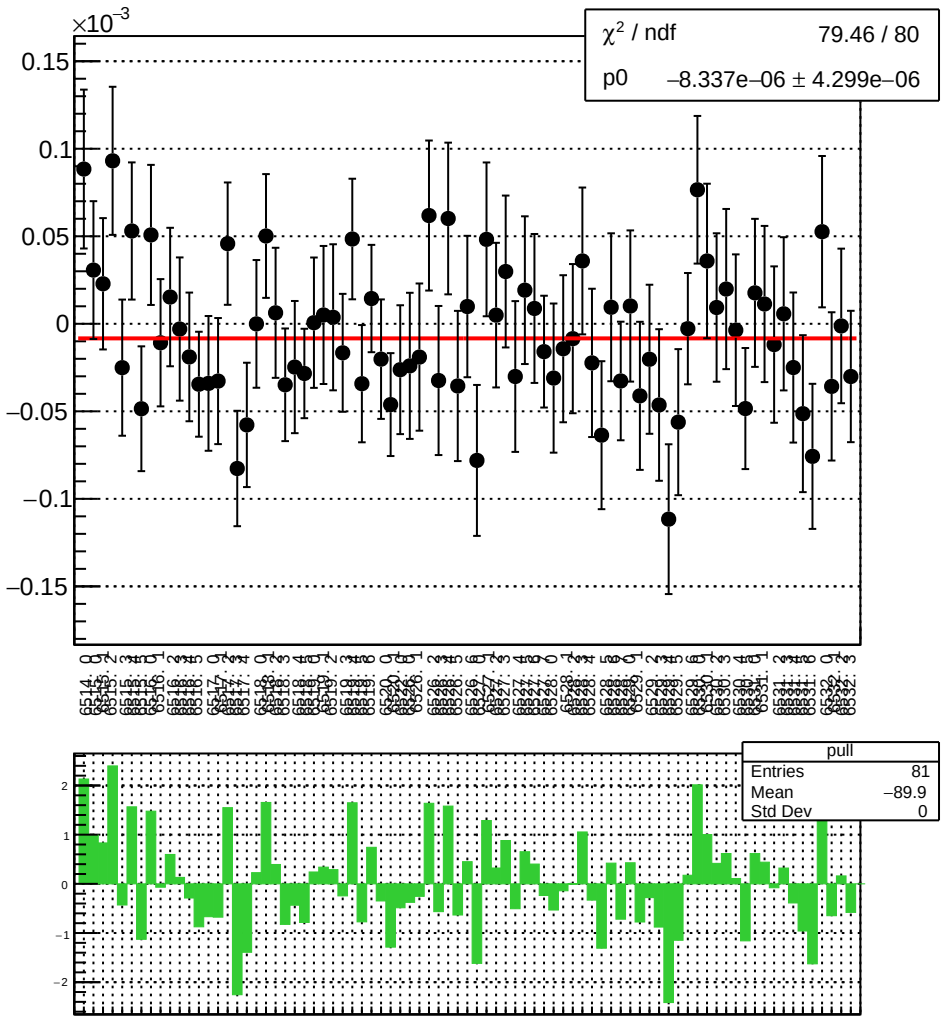

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 111.3 / 80
p0 −0.1011± 0.09113
pull
Entries 81
Mean −1904
Std Dev 0

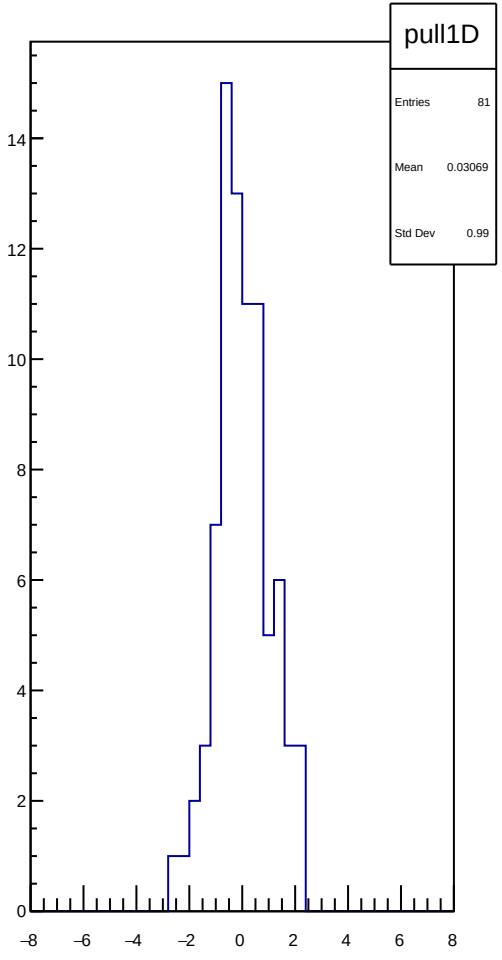

pull1D
Entries 81
Mean 0.005273
Std Dev 1.172

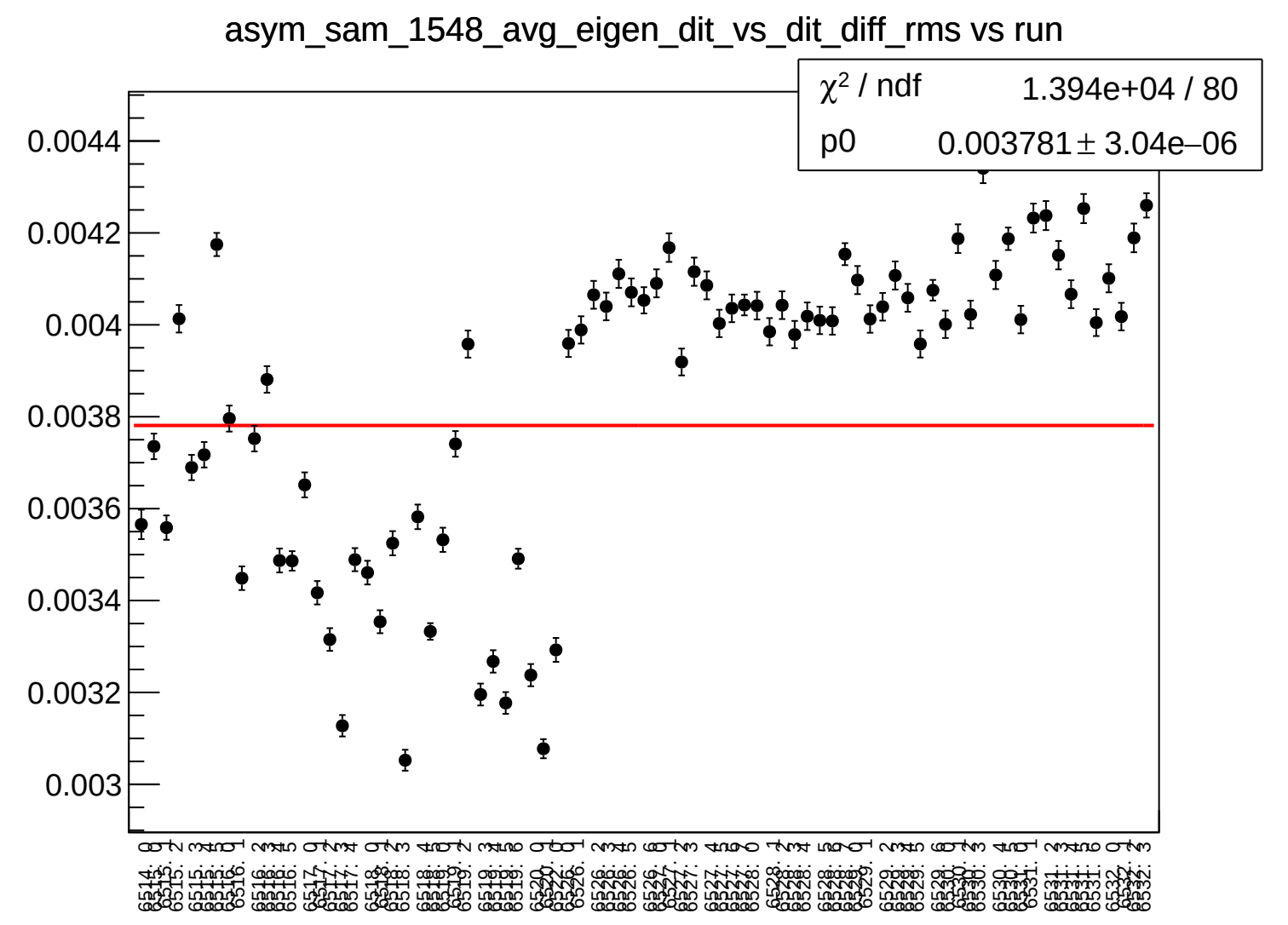

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.336e+05 / 80
p0 76.99 ± 0.06444
180
160
140
120
100
80
60
40

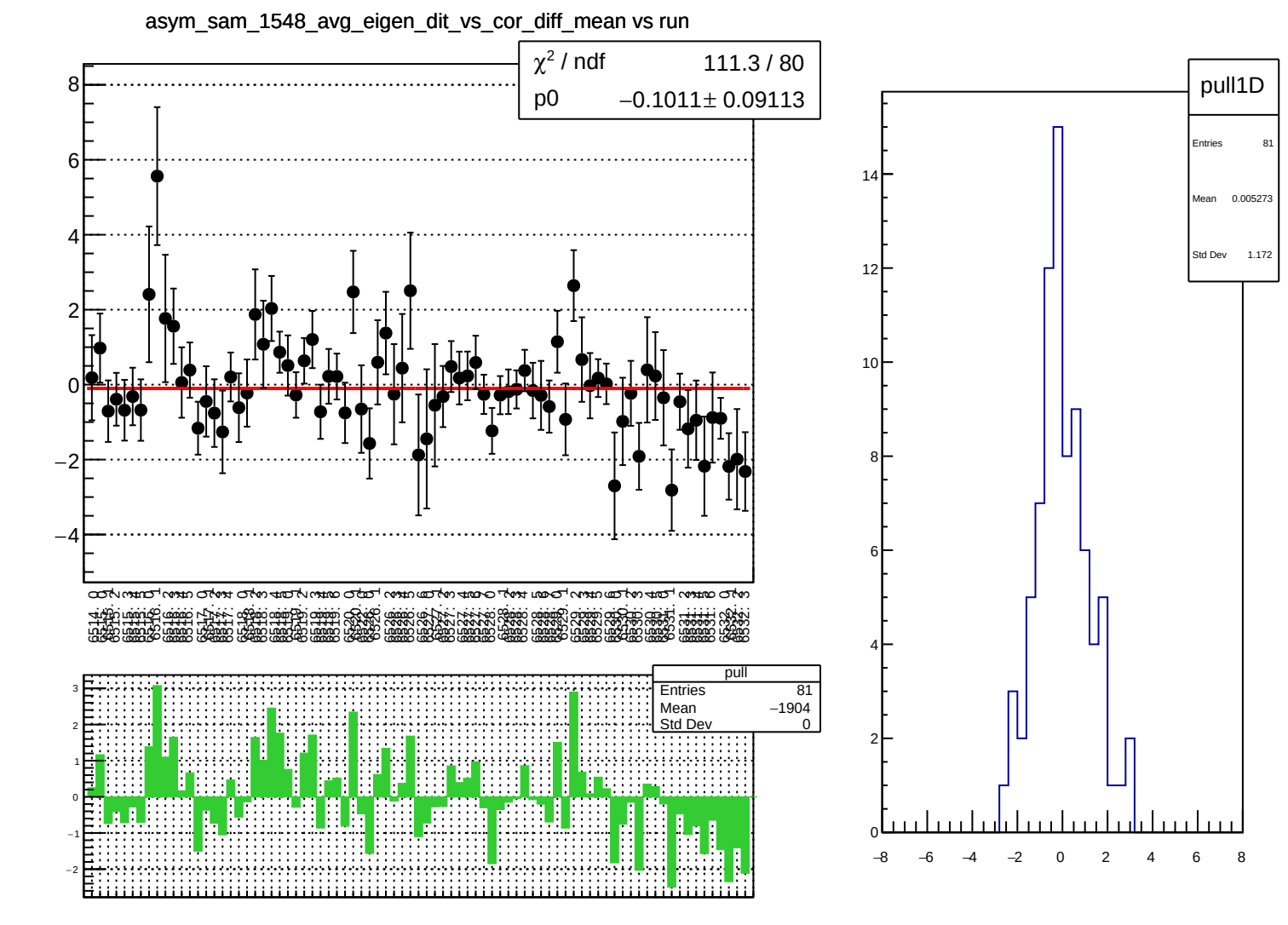

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 111.3 / 80
p0 −0.1011± 0.09113
pull
Entries 81
Mean −1904
Std Dev 0
pull1D
Entries 81
Mean 0.005273
Std Dev 1.172

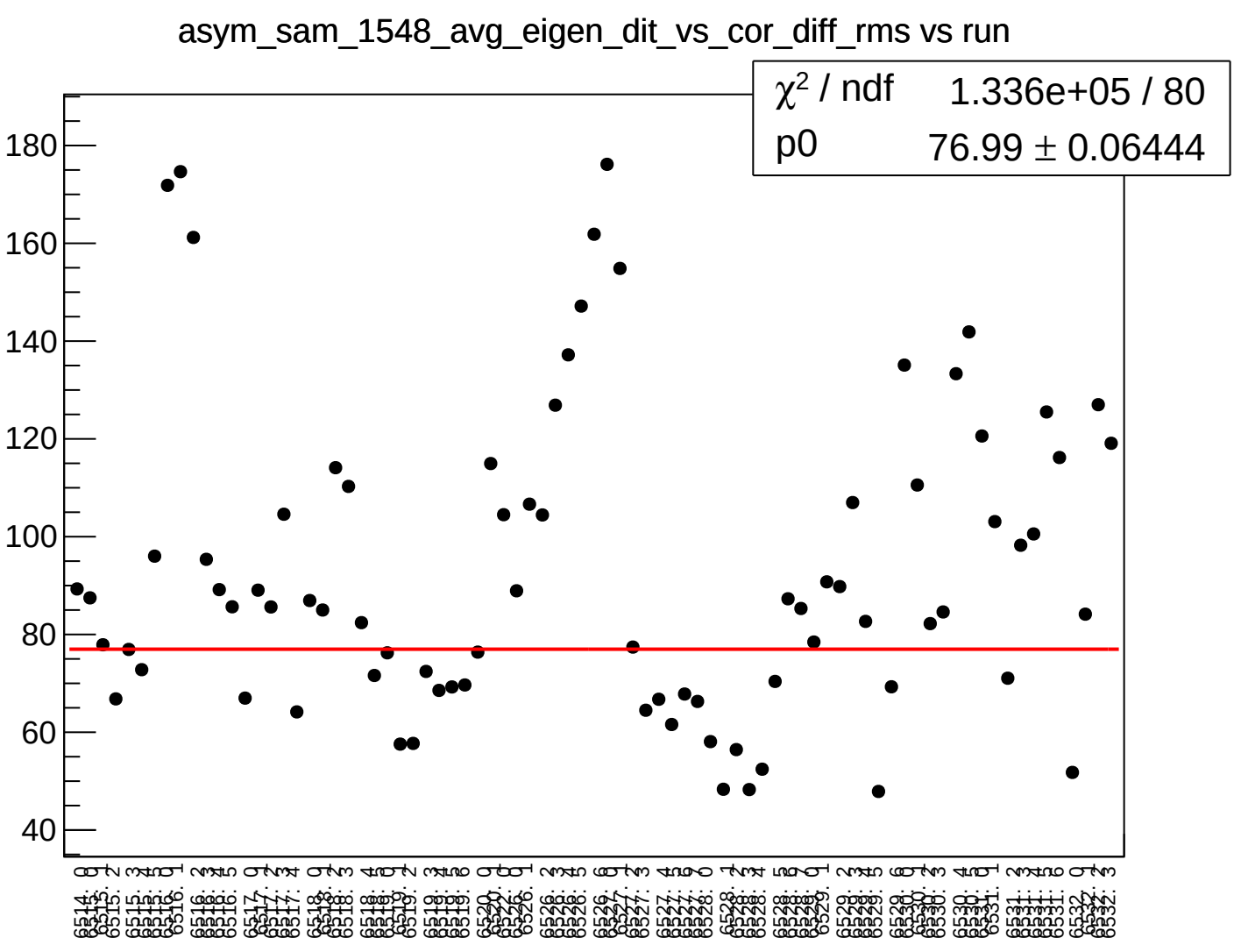

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.336e+05 / 80
p0 76.99 ± 0.06444
180
160
140
120
100
80
60
40

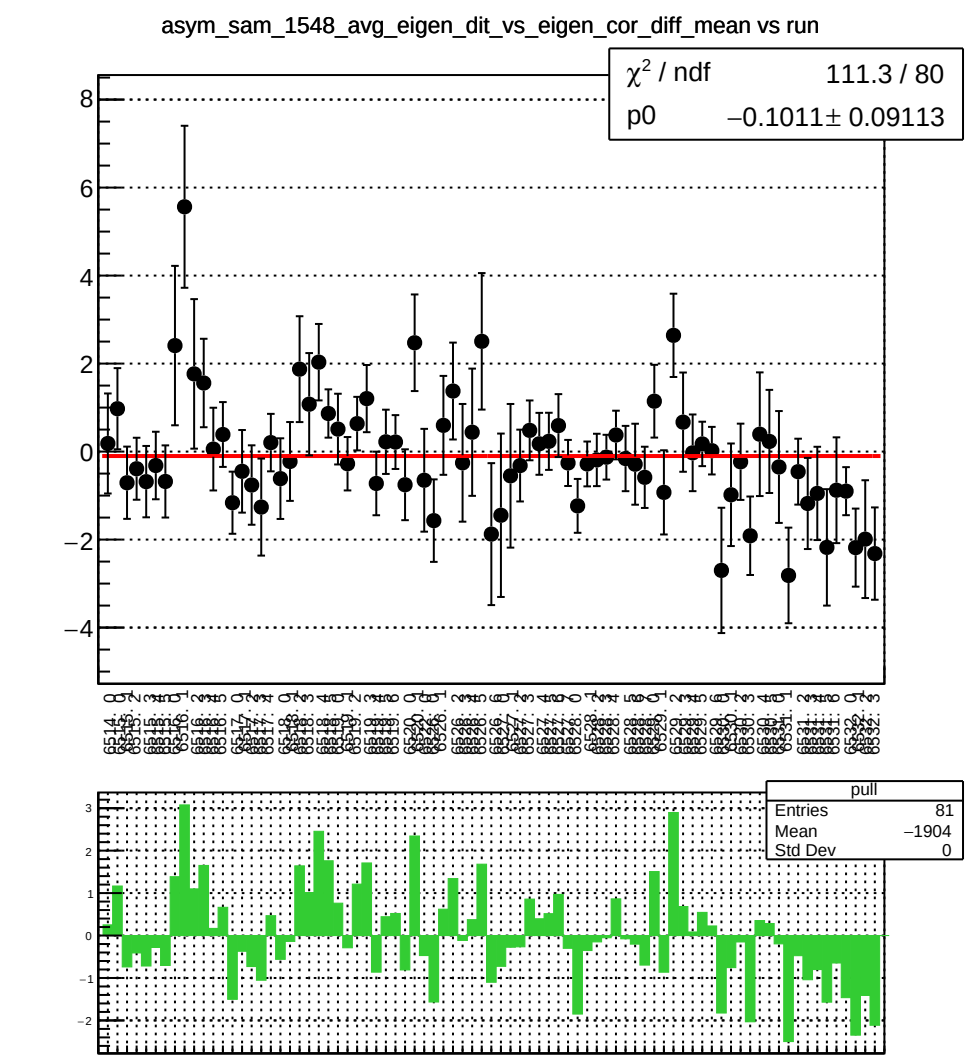

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79.46 / 80
p0 −8.337e−06 ± 4.299e−06
pull
Entries 81
Mean −89.9
Std Dev 0

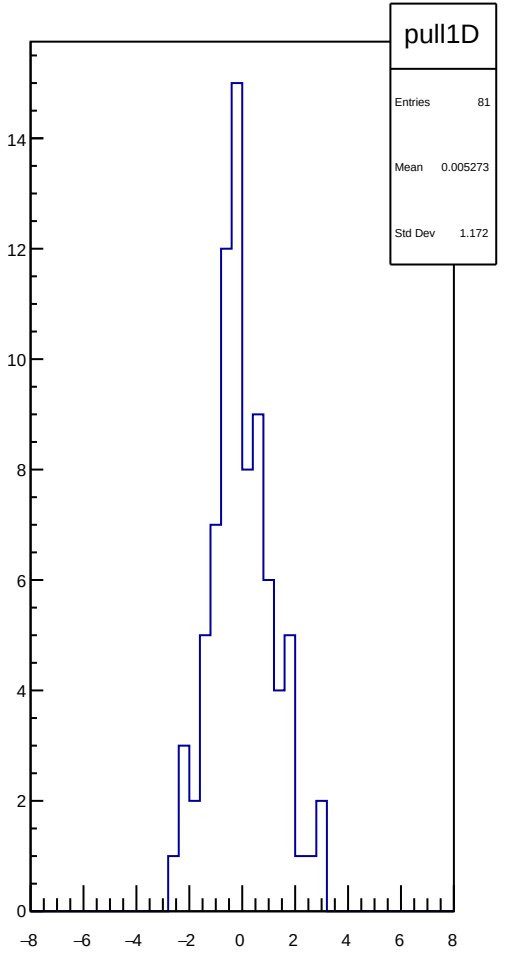

pull1D
Entries 81
Mean 0.03069
Std Dev 0.99

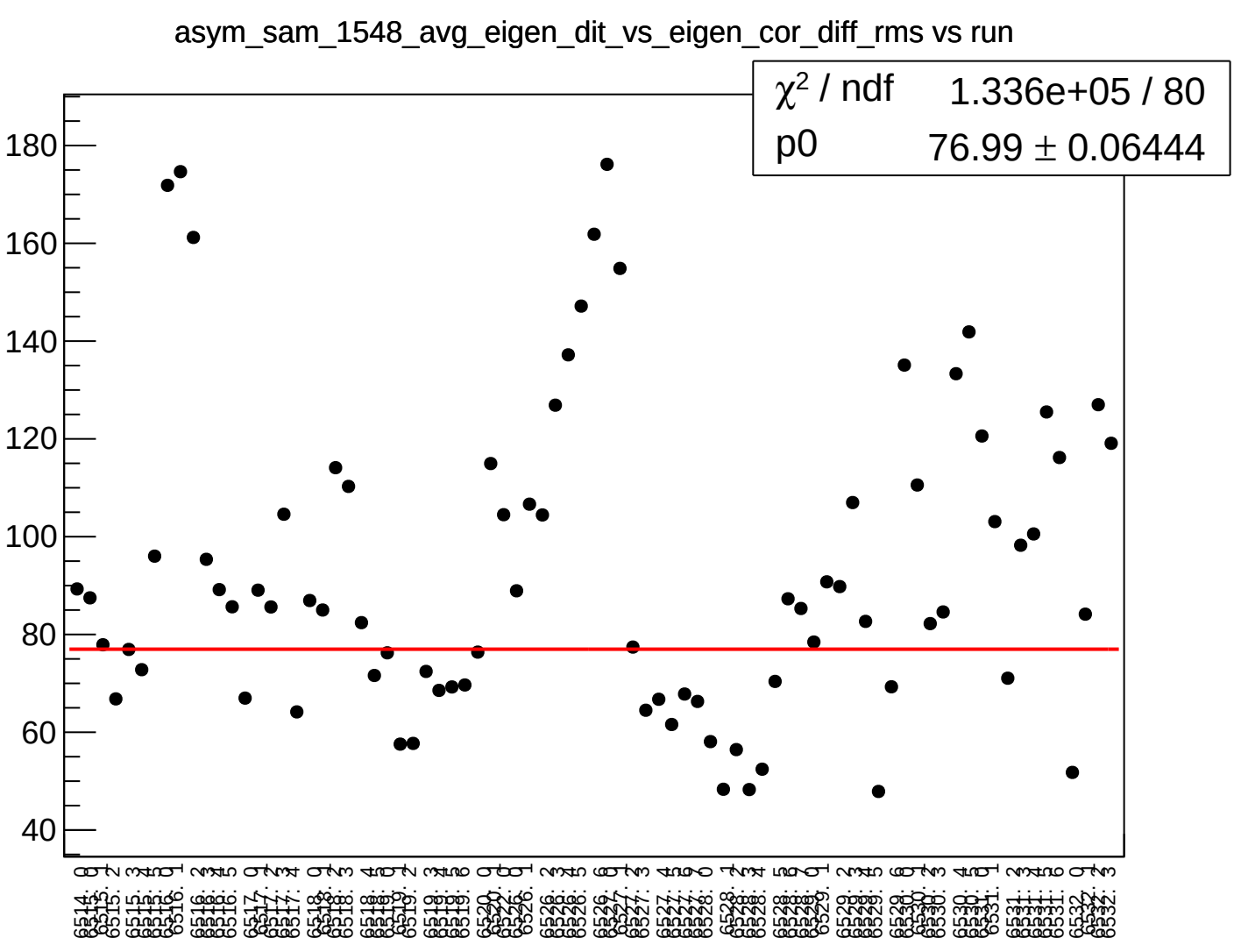

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.394e+04 / 80
p0 0.003781 ± 3.04e–06
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003

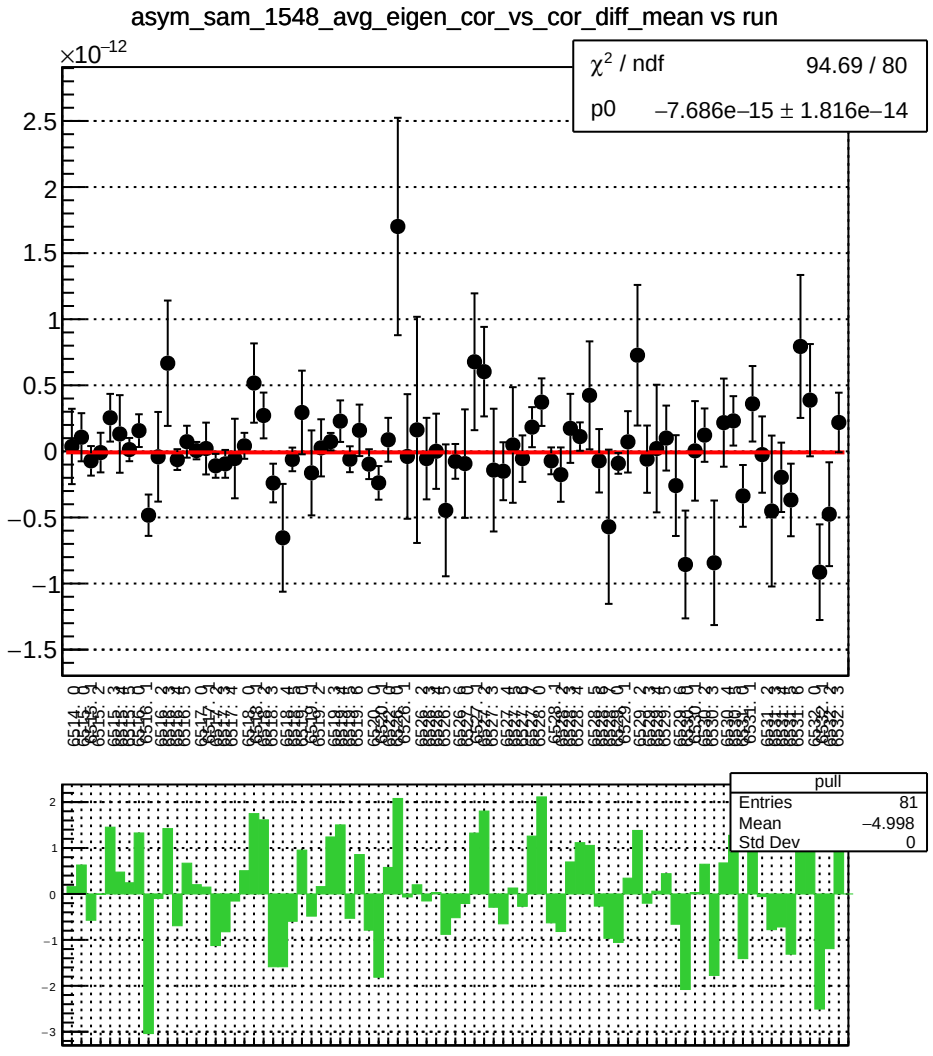

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 111.3 / 80
p0 −0.1011± 0.09113
pull
Entries 81
Mean −1904
Std Dev 0
pull1D
Entries 81
Mean 0.005273
Std Dev 1.172

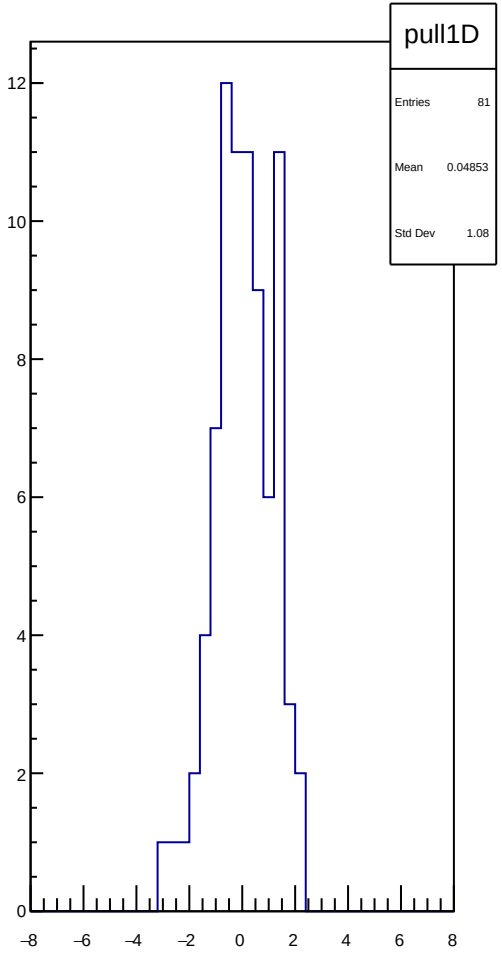

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.336e+05 / 80
p0 76.99 ± 0.06444
180
160
140
120
100
80
60
40

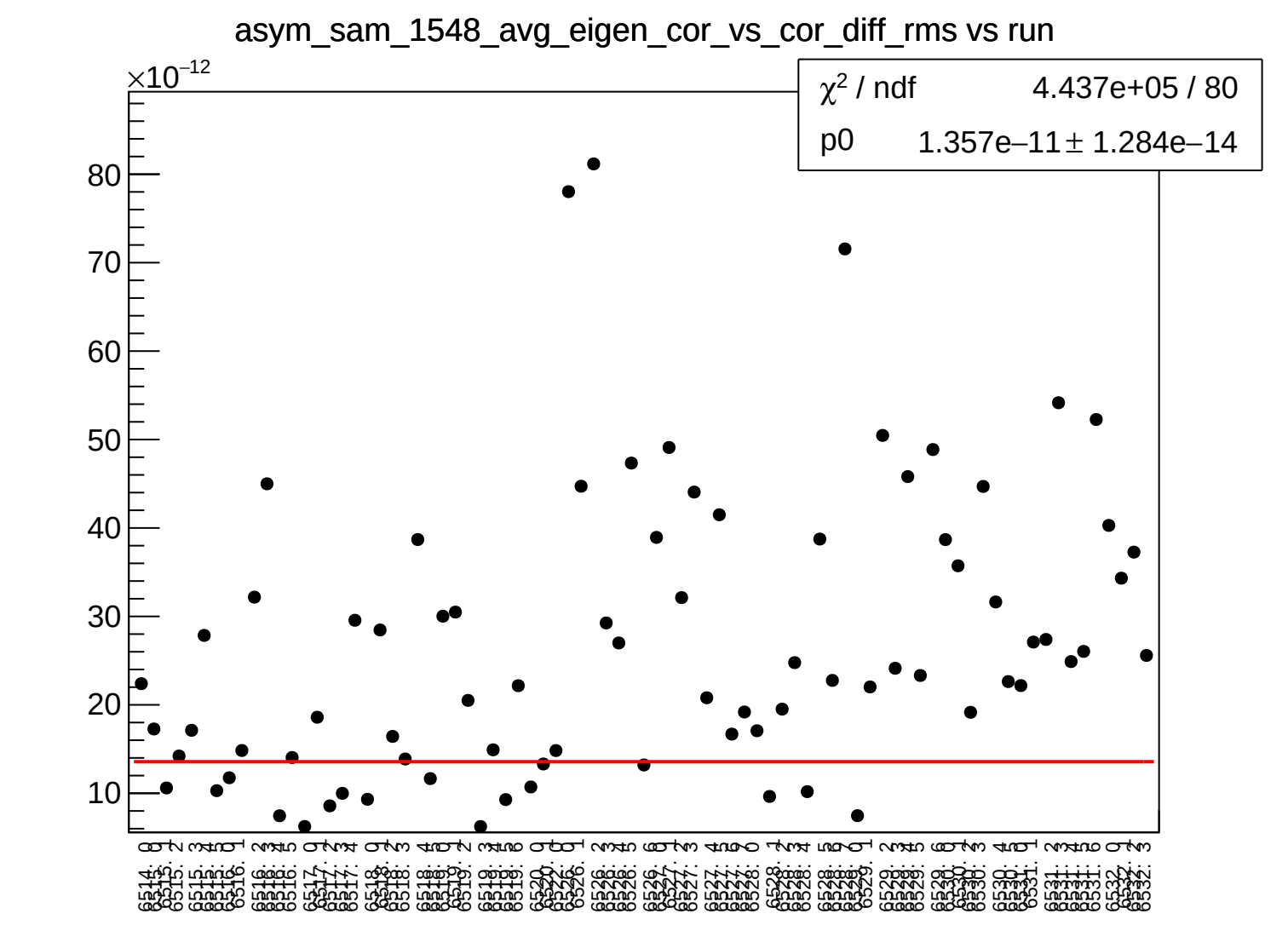

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 111.3 / 80
p0 −0.1011± 0.09113
pull
Entries 81
Mean −1904
Std Dev 0

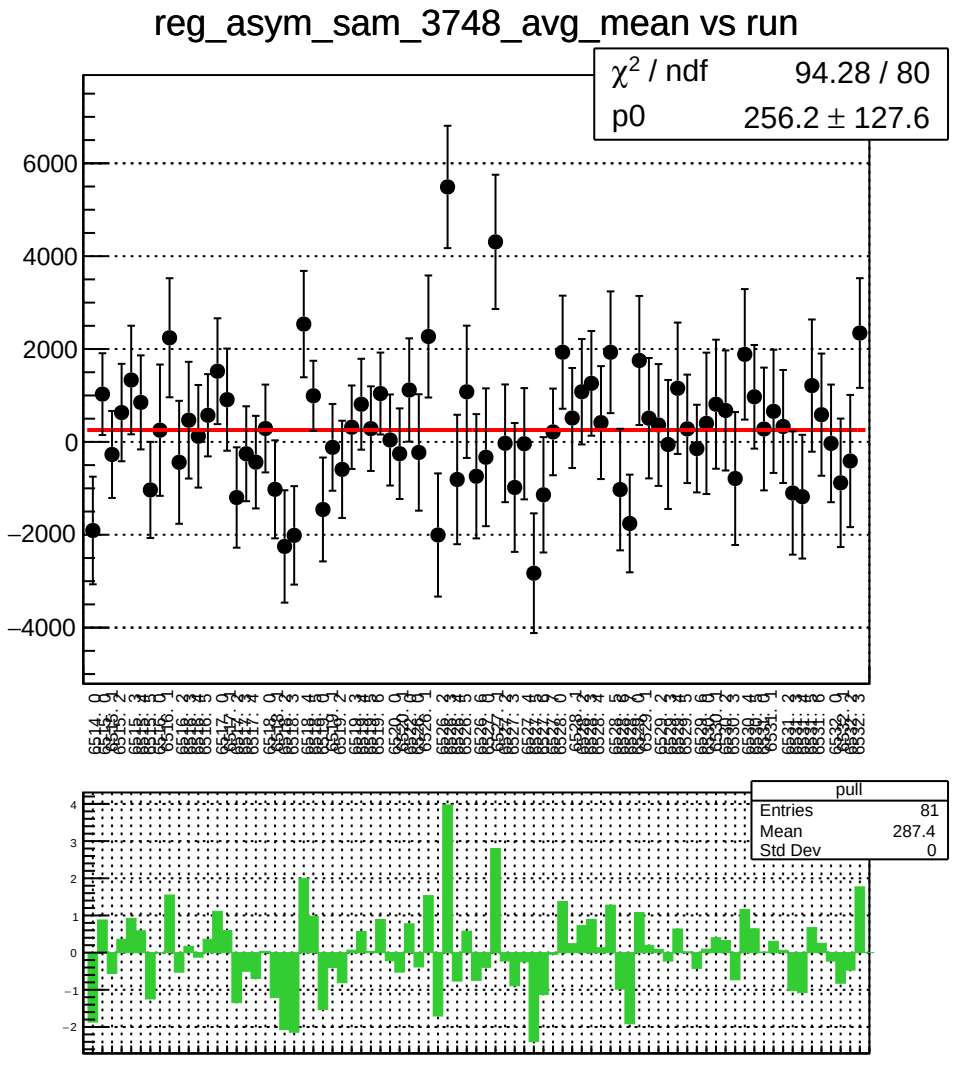

pull1D
Entries 81
Mean 0.005273
Std Dev 1.172

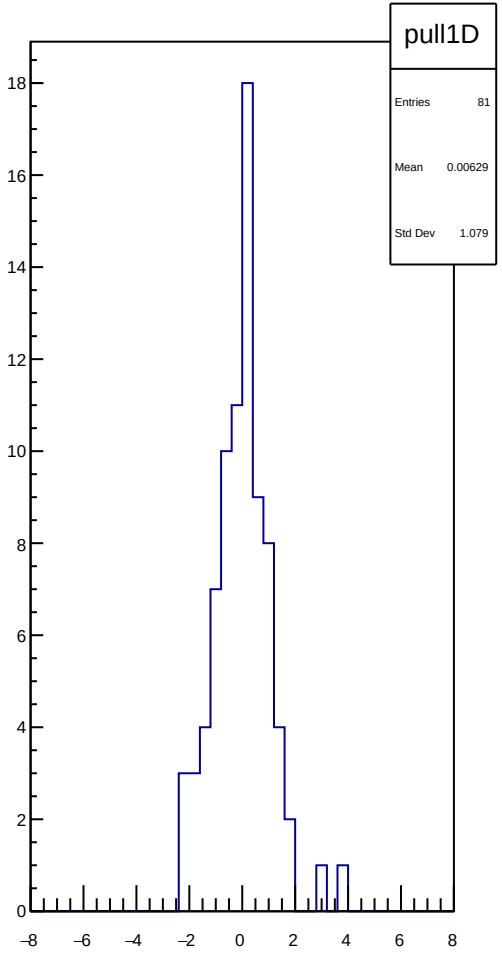

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.336e+05 / 80
p0 76.99 ± 0.06444
180
160
140
120
100
80
60
40

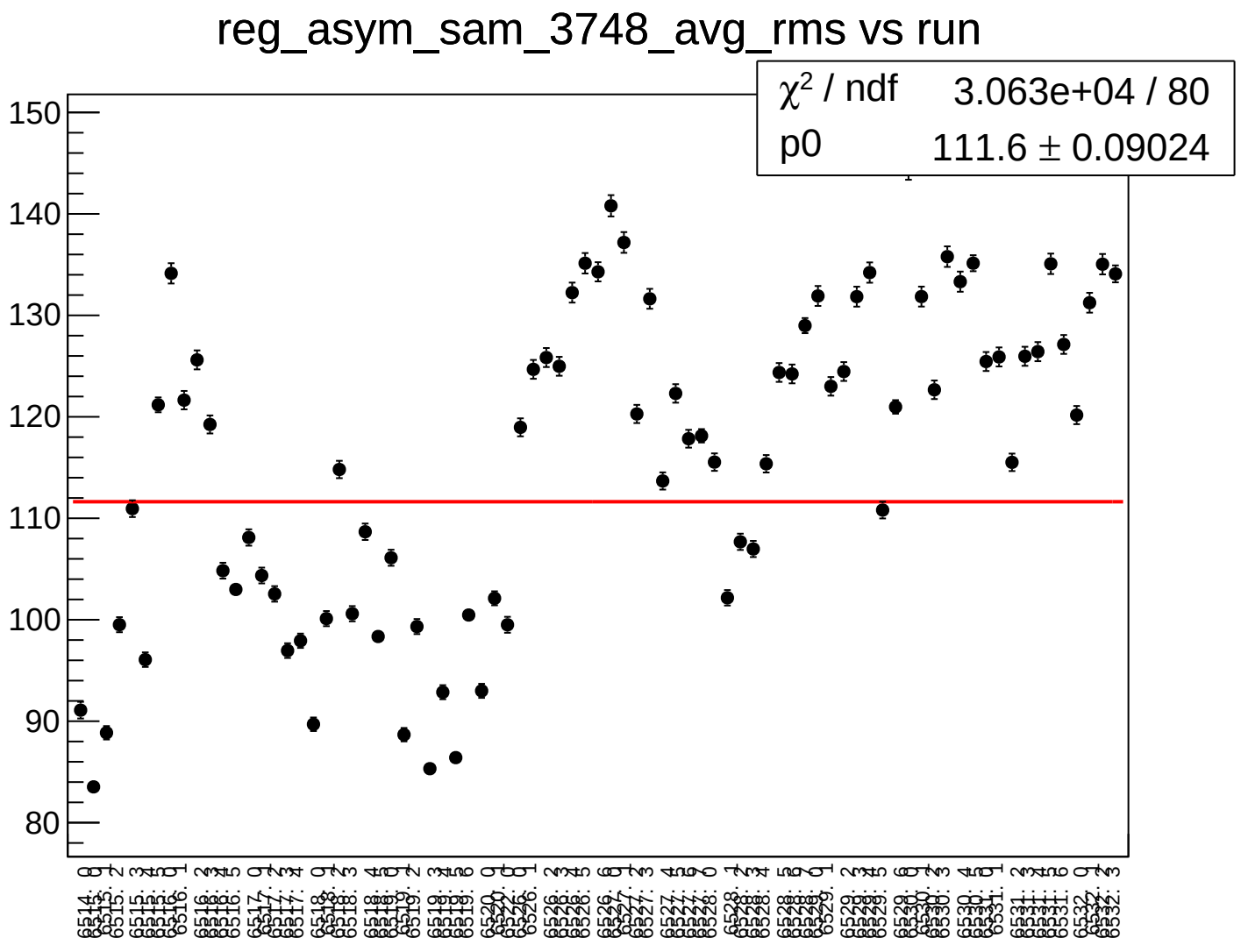

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.69 / 80
p0 −7.686e−15 ± 1.816e−14
pull
Entries 81
Mean −4.998
Std Dev 0

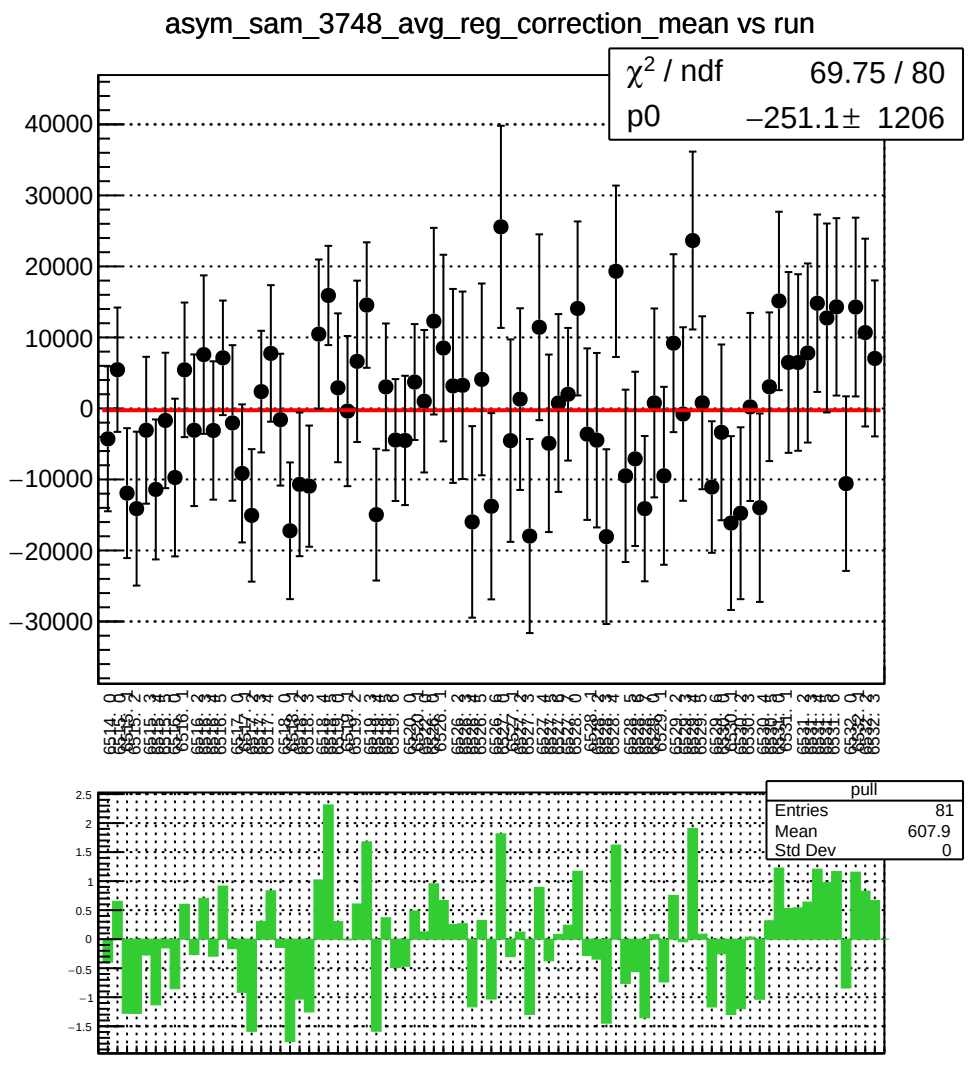

pull1D
Entries 81
Mean 0.04853
Std Dev 1.08

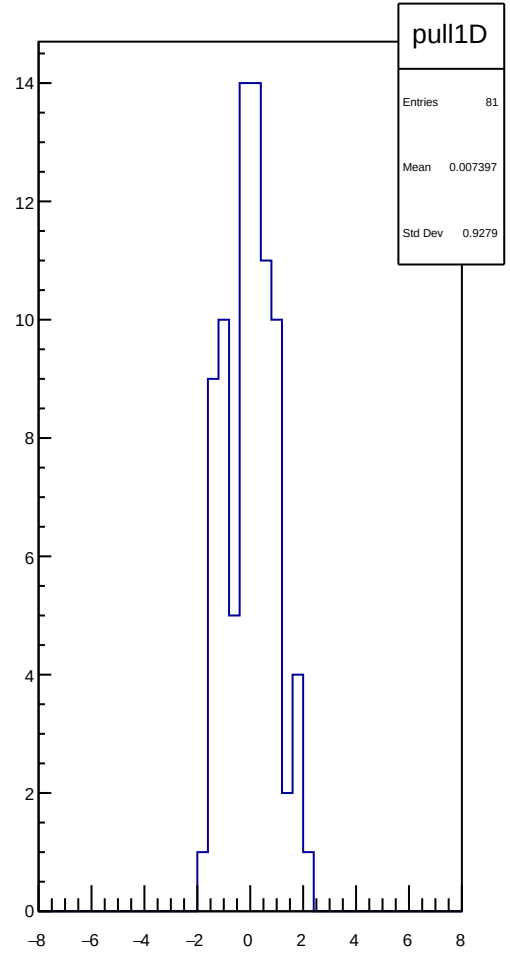

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.437e+05 / 80
p0 1.357e−11 ± 1.284e−14
80
70
60
50
40
30
20
10

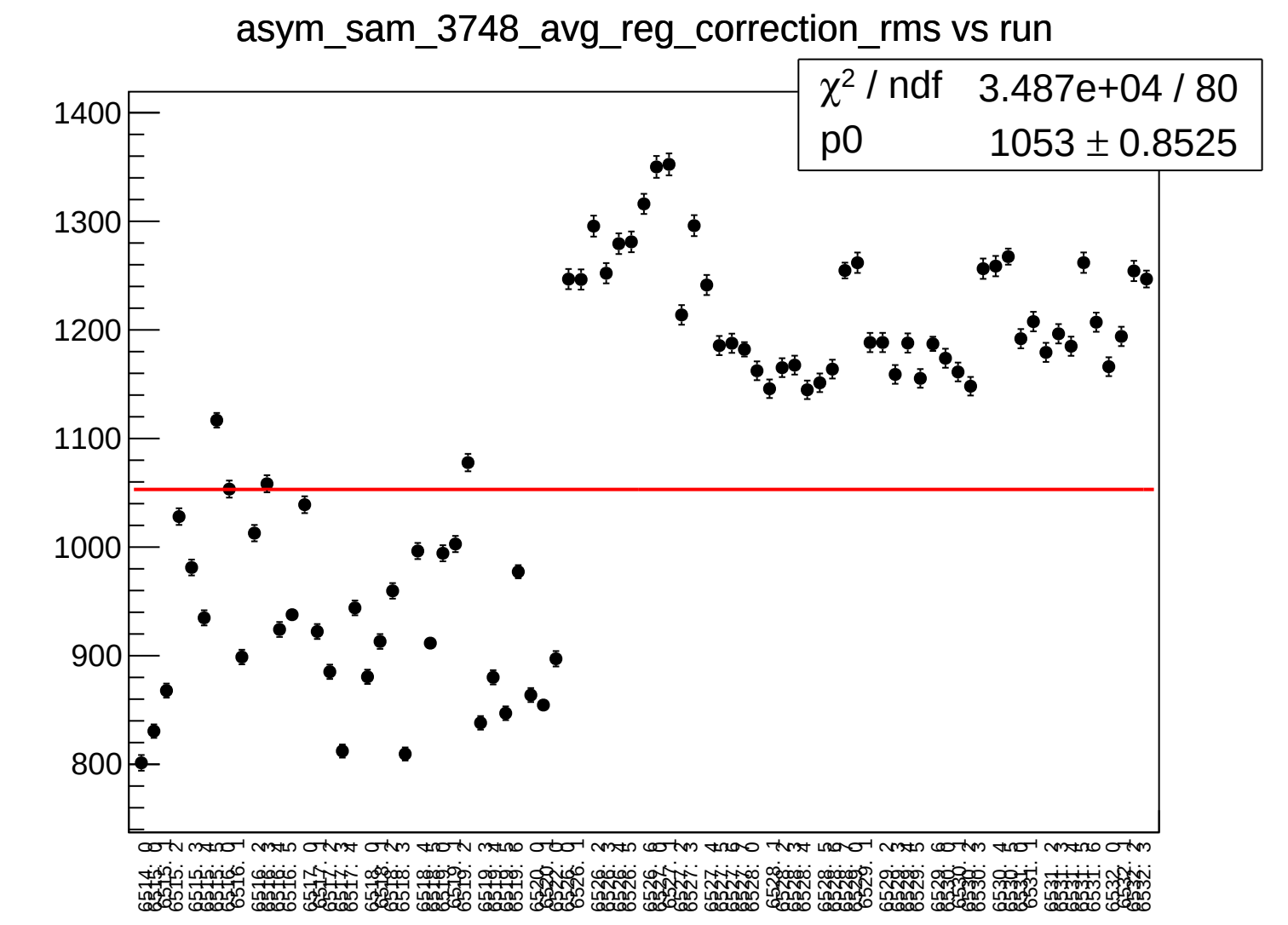

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 94.28 / 80
p0 256.2 ± 127.6
pull
Entries 81
Mean 287.4
Std Dev 0

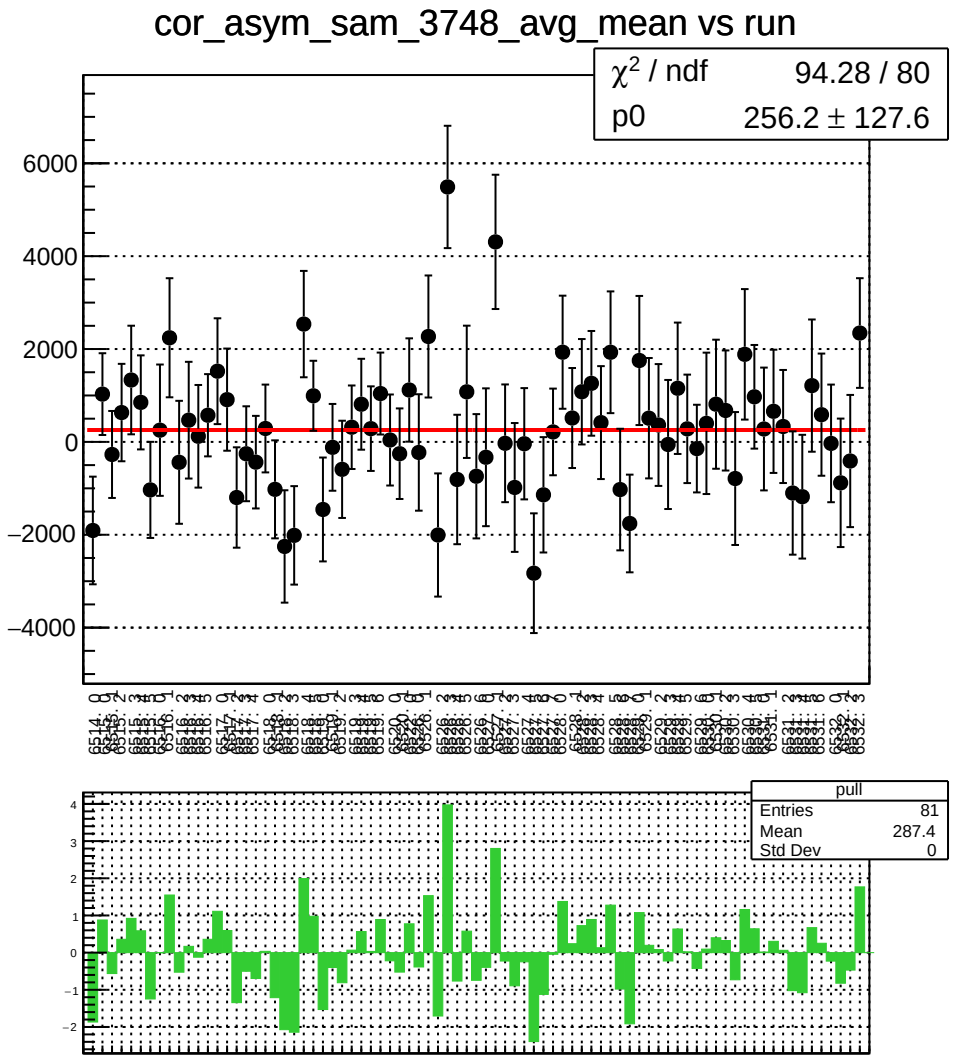

pull1D
Entries 81
Mean 0.00629
Std Dev 1.079

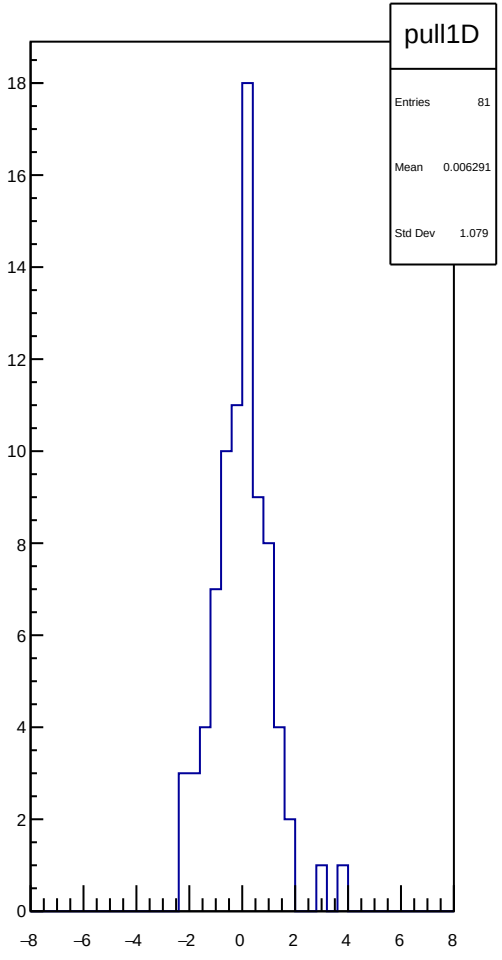

reg_asym_sam_3748_avg_rms vs run
χ² / ndf 3.063e+04 / 80
p0 111.6 ± 0.09024
150
140
130
120
110
100
90
80

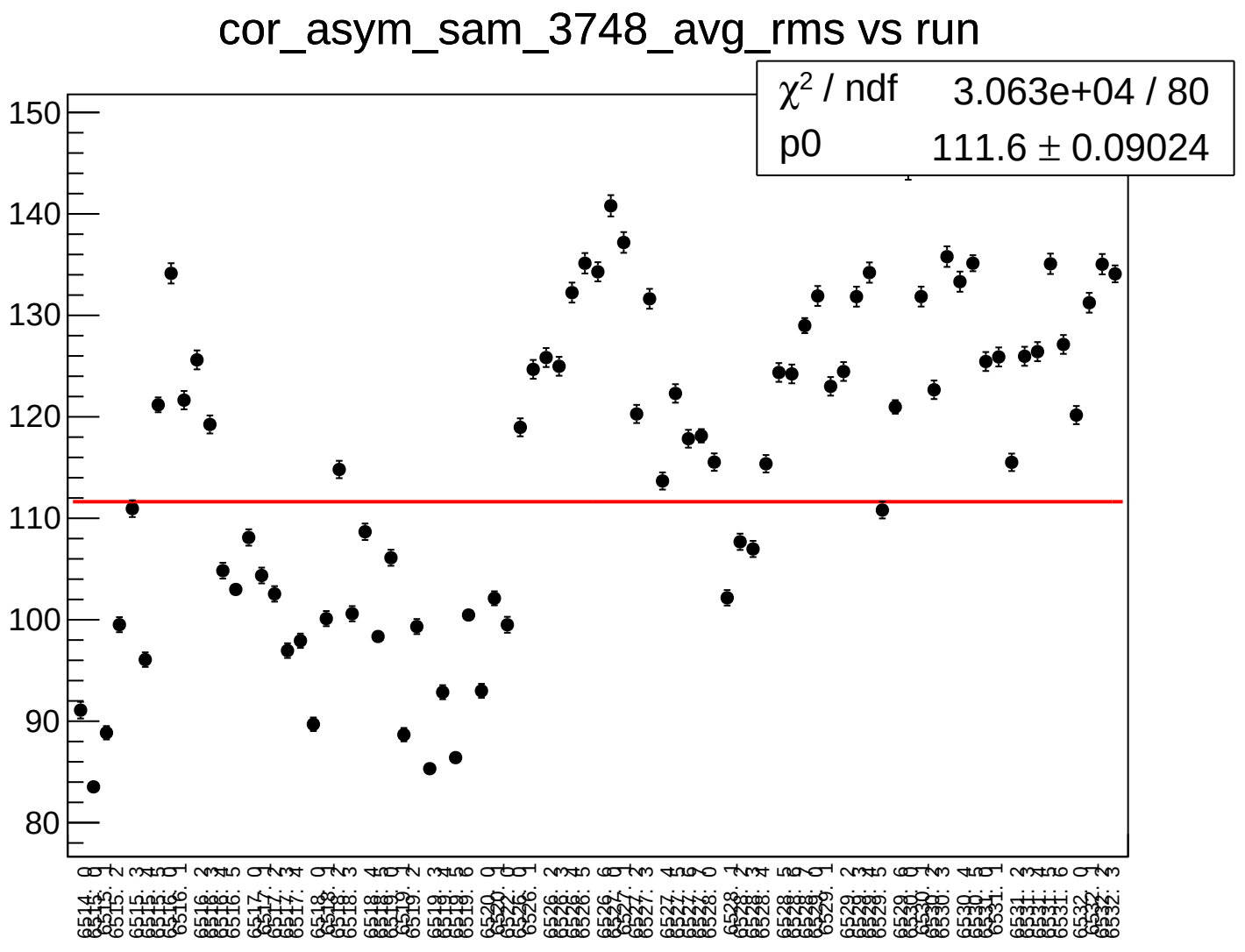

asym_sam_3748_avg_reg_correction_mean vs run
χ² / ndf 69.75 / 80
p0 −251.1± 1206
pull
Entries 81
Mean 607.9
Std Dev 0

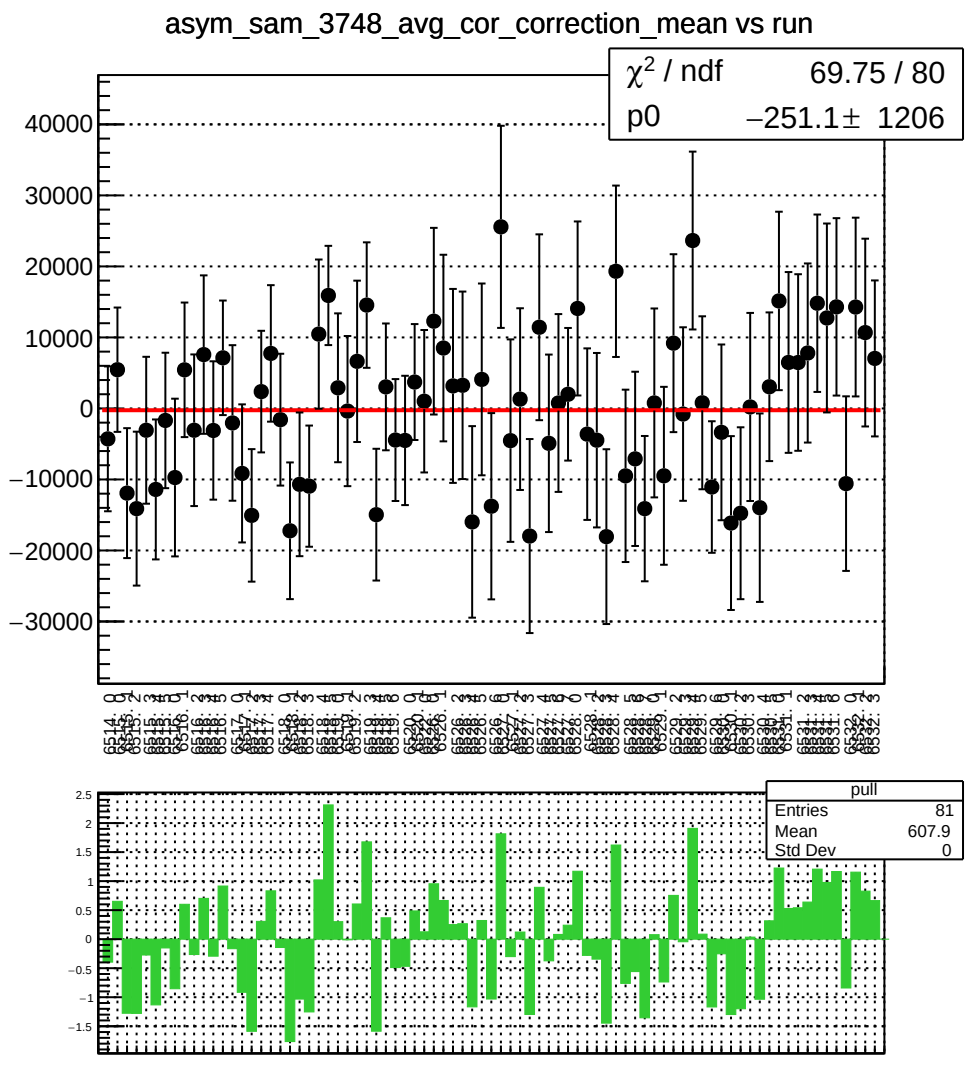

pull1D
Entries 81
Mean 0.007397
Std Dev 0.9279

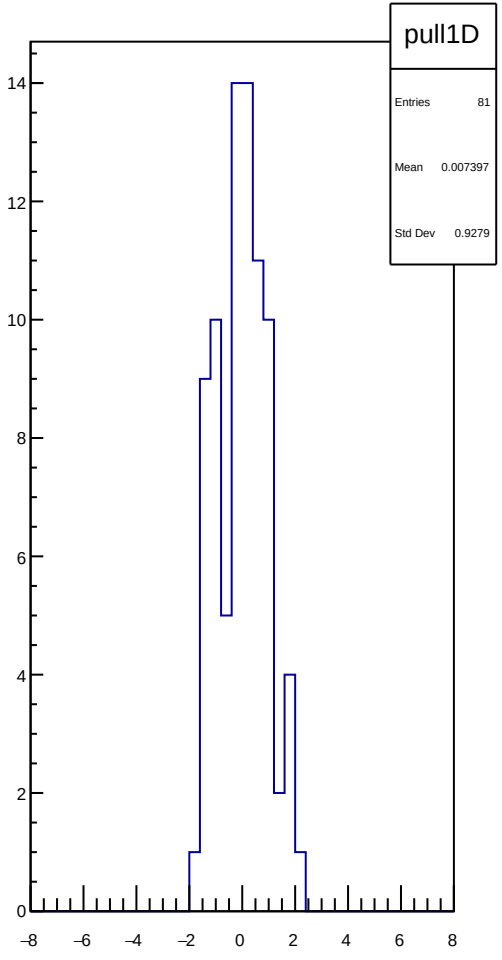

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 3.487e+04 / 80
p0 1053 ± 0.8525
1400
1300
1200
1100
1000
900
800

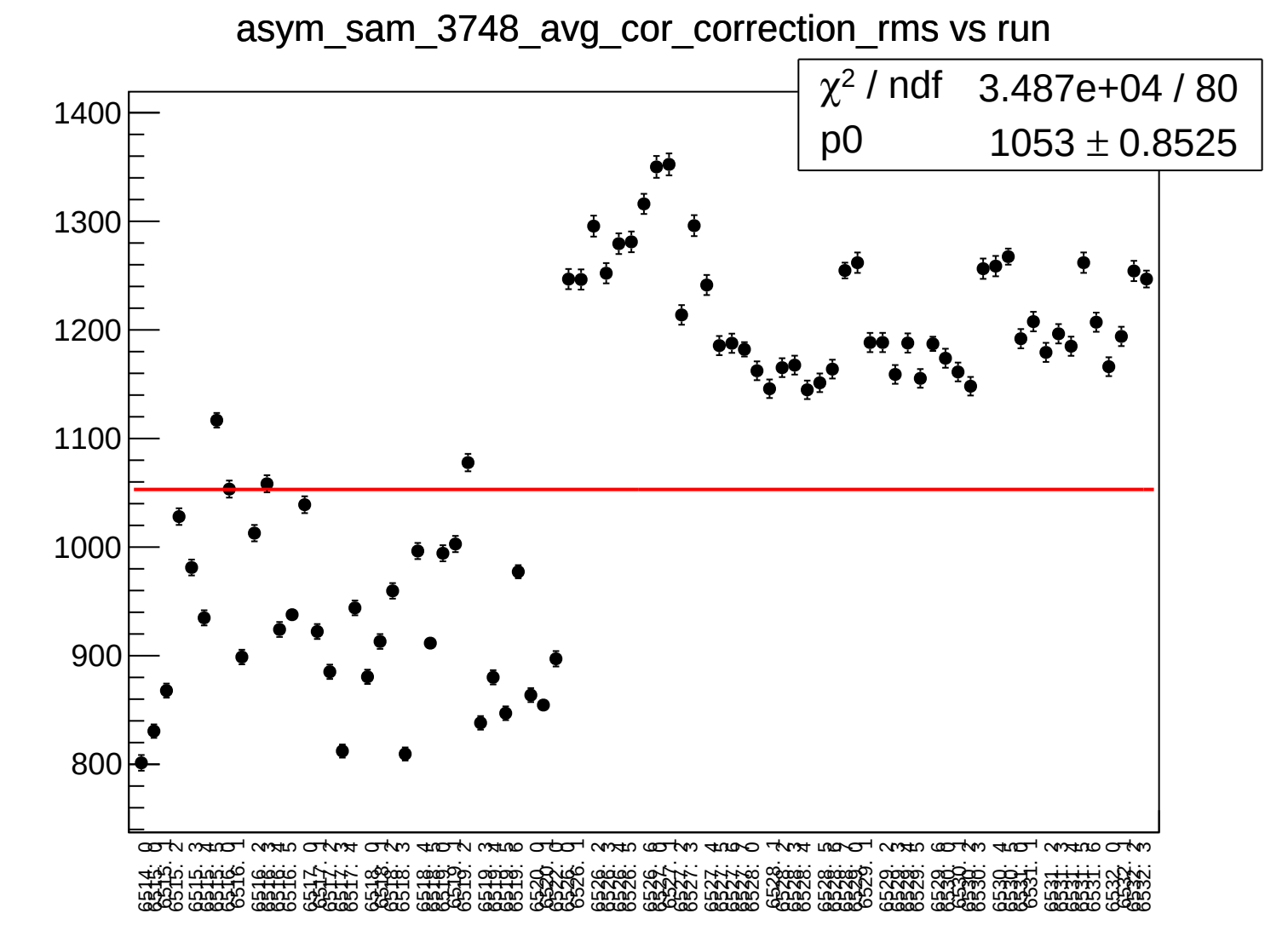

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 94.28 / 80
p0 256.2 ± 127.6
6000
4000
2000
0
−2000
−4000
pull
Entries 81
Mean 287.4
Std Dev 0
4
3
2
1
0
−1
−2

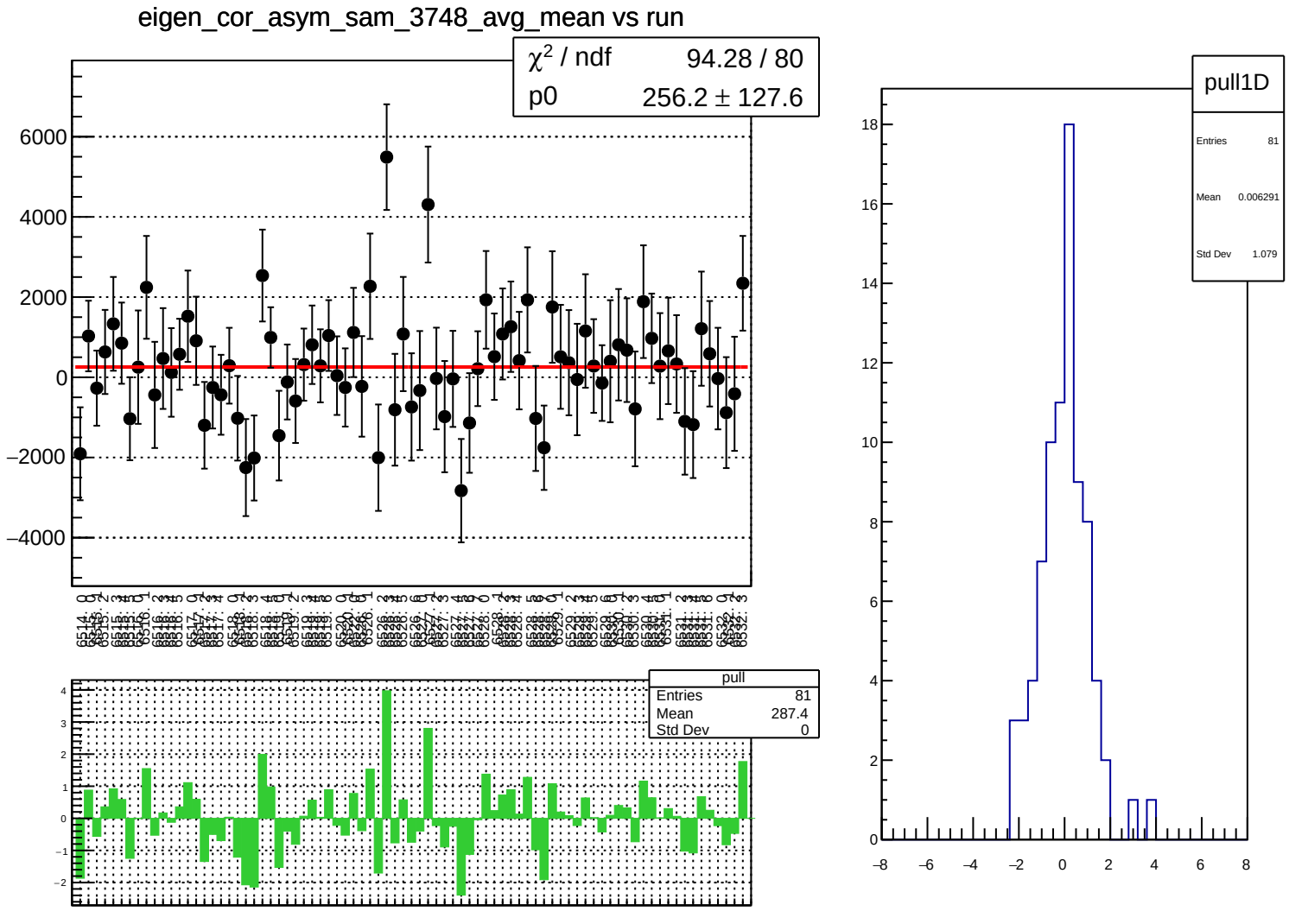

pull1D
Entries 81
Mean 0.006291
Std Dev 1.079
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

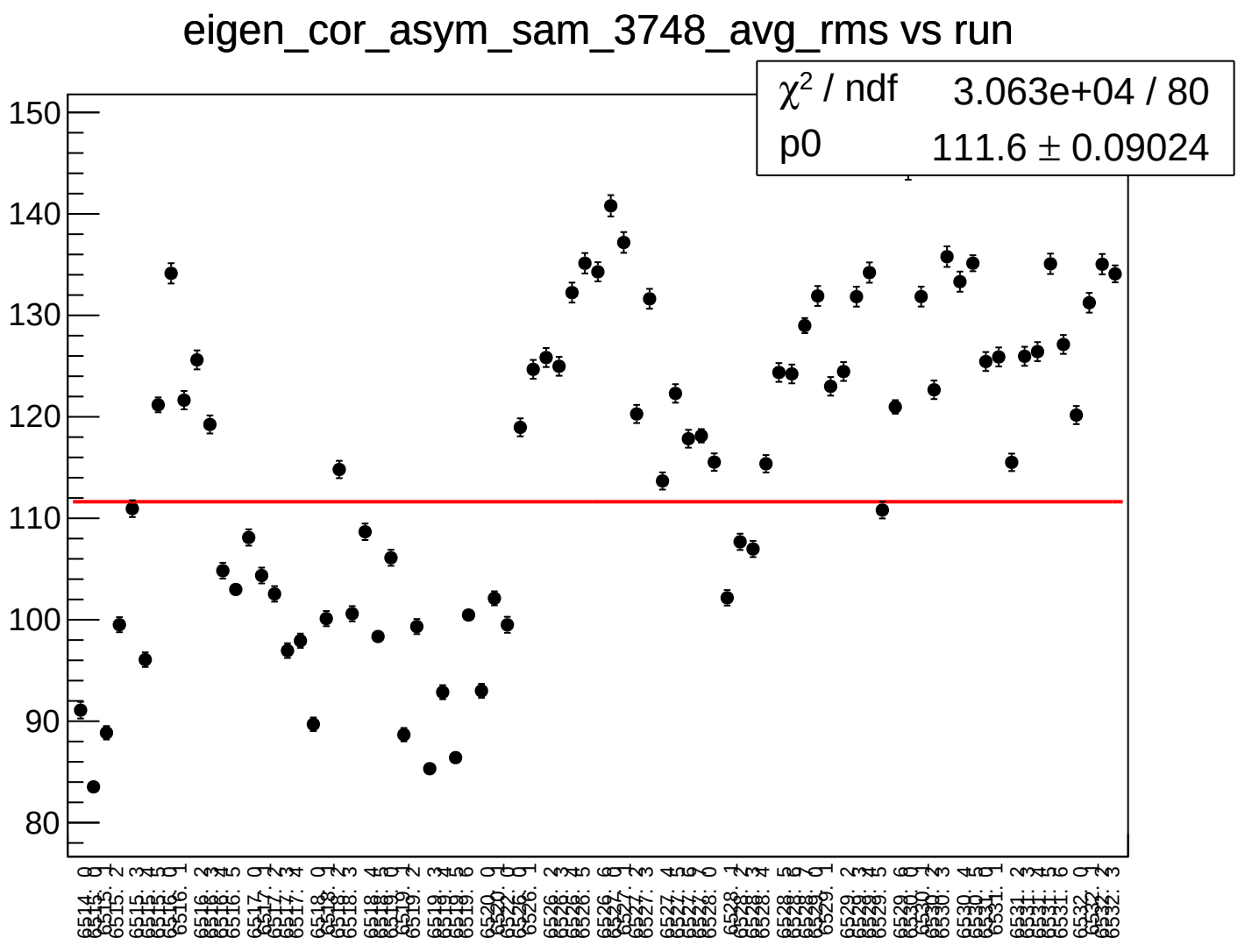

cor_asym_sam_3748_avg_rms vs run
χ² / ndf 3.063e+04 / 80
p0 111.6 ± 0.09024
150
140
130
120
110
100
90
80

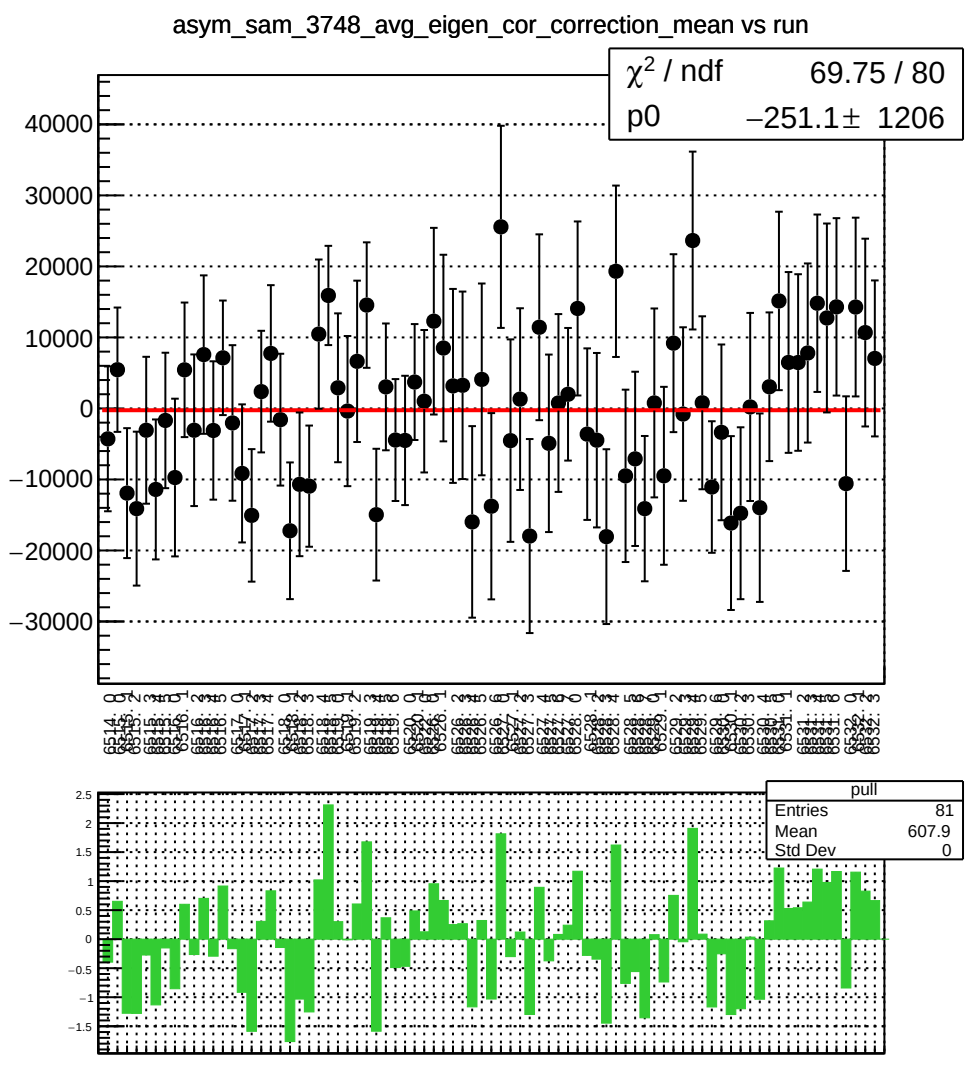

asym_sam_3748_avg_cor_correction_mean vs run
χ² / ndf 69.75 / 80
p0 −251.1± 1206
pull
Entries 81
Mean 607.9
Std Dev 0

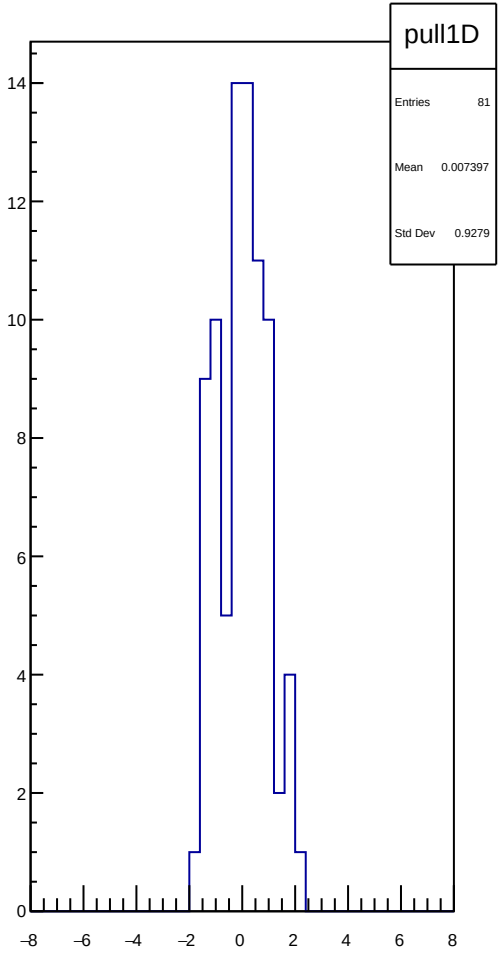

pull1D
Entries 81
Mean 0.007397
Std Dev 0.9279

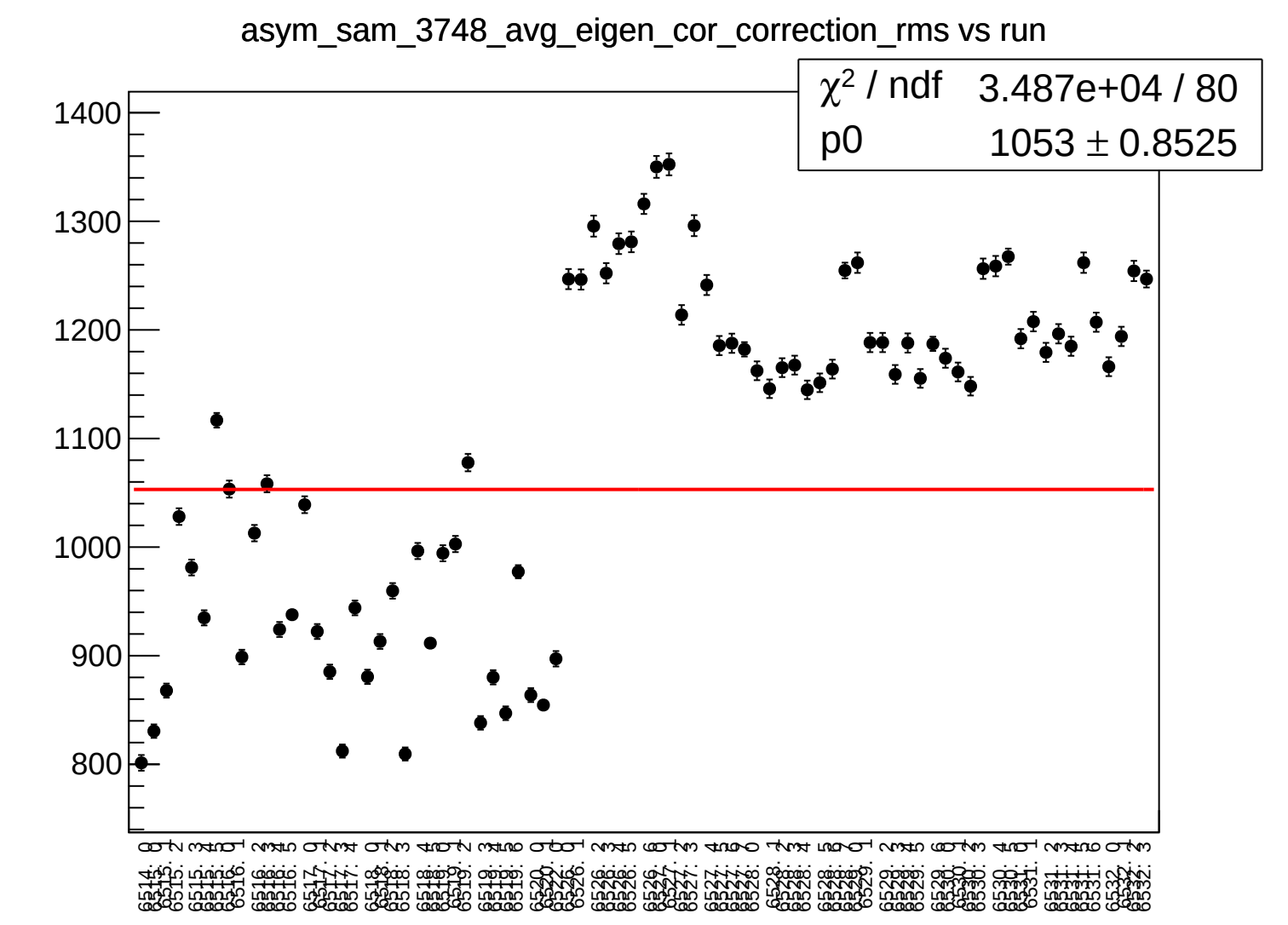

asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 3.487e+04 / 80
p0 1053 ± 0.8525
1400
1300
1200
1100
1000
900
800

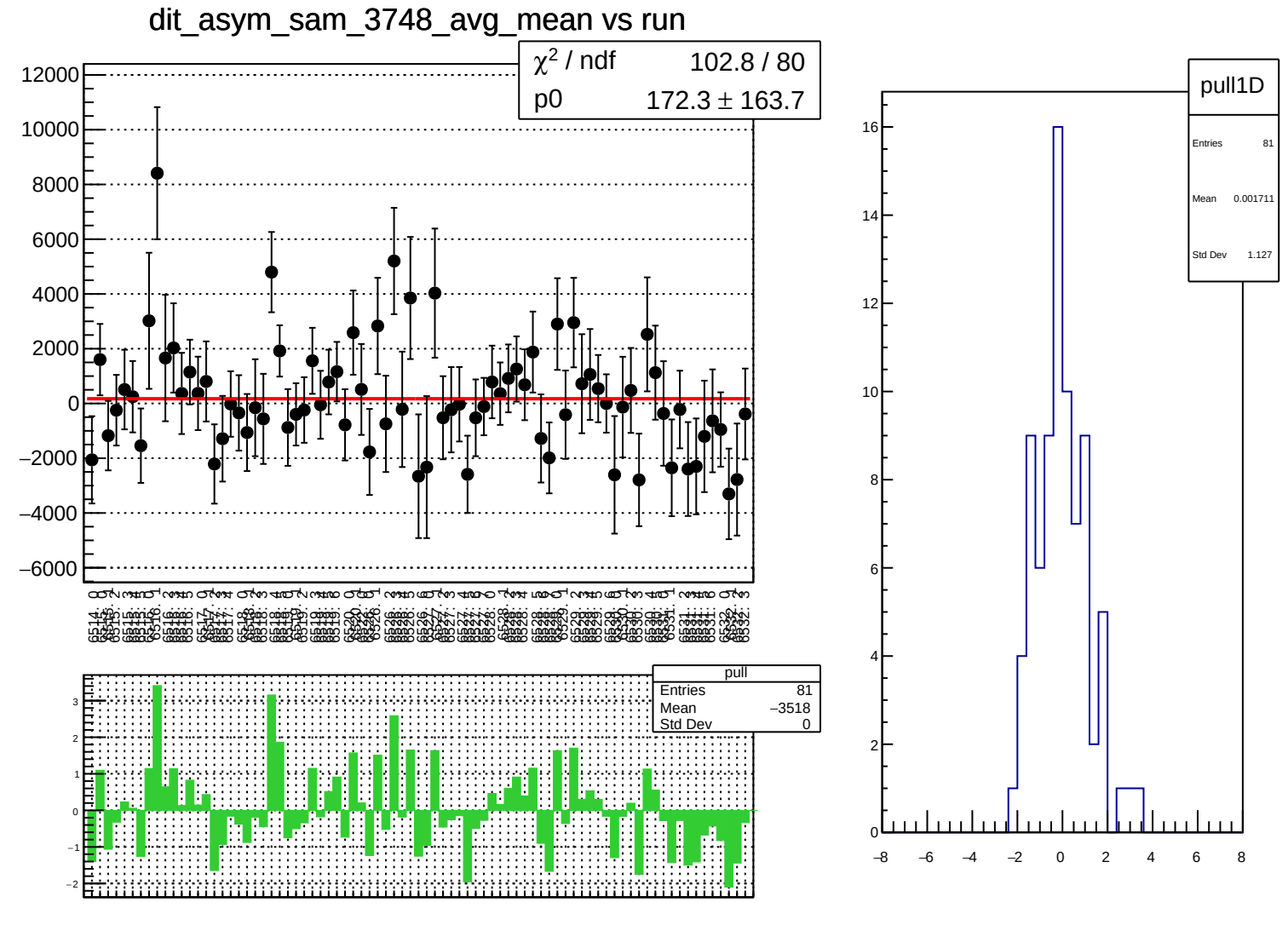

eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 94.28 / 80
p0 256.2 ± 127.6
pull
Entries 81
Mean 287.4
Std Dev 0
pull1D
Entries 81
Mean 0.006291
Std Dev 1.079

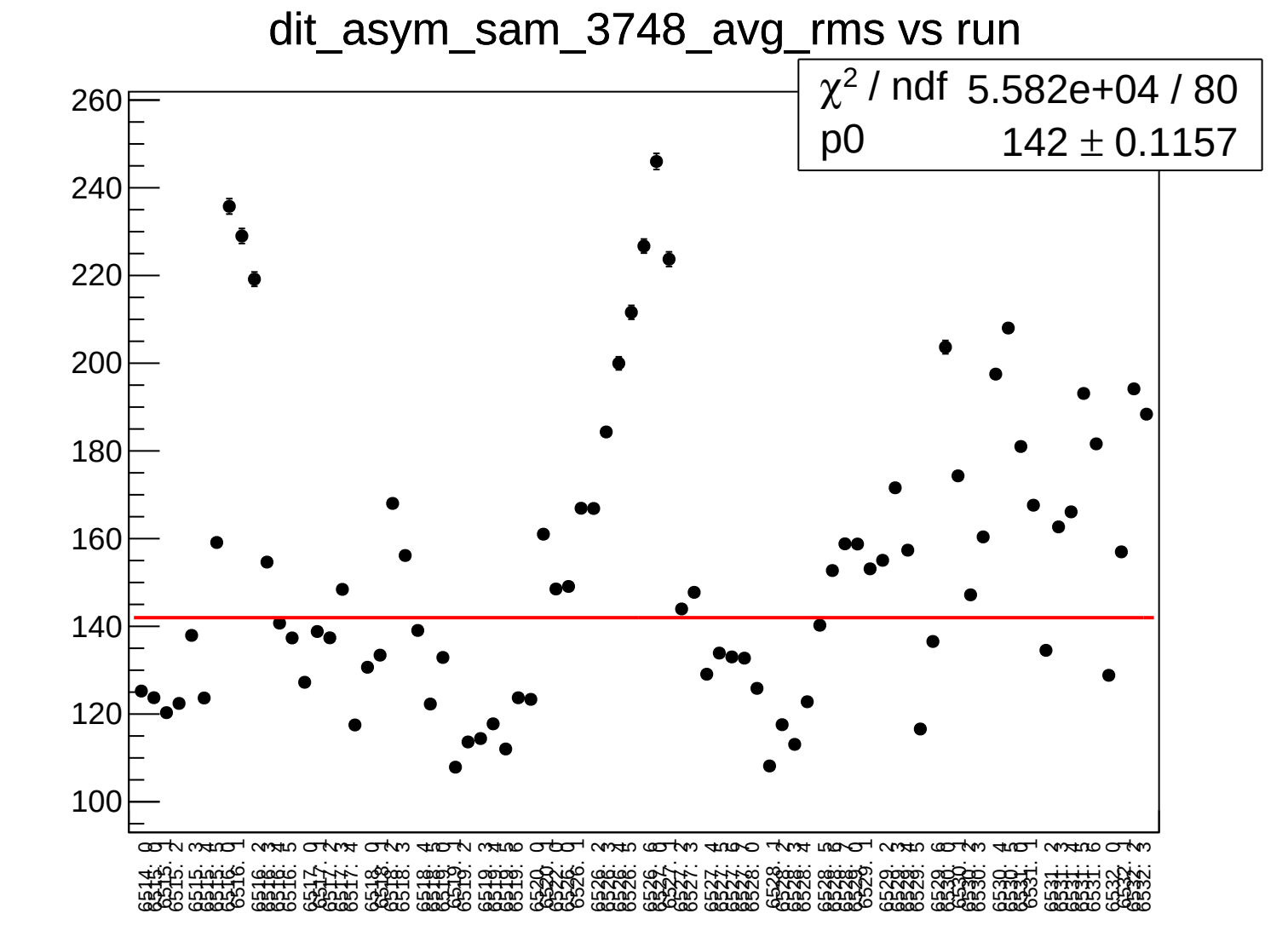

eigen_cor_asym_sam_3748_avg_rms vs run
χ² / ndf 3.063e+04 / 80
p0 111.6 ± 0.09024
150
140
130
120
110
100
90
80

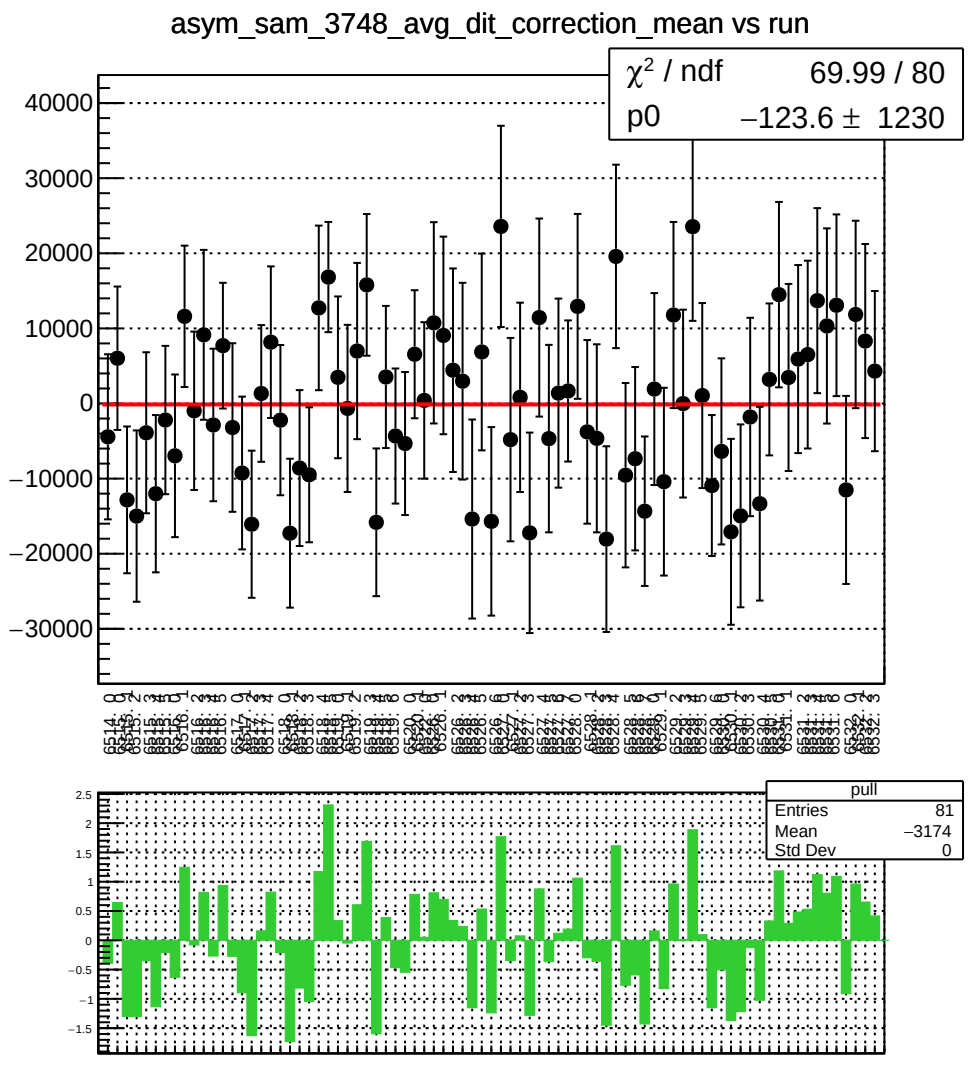

asym_sam_3748_avg_eigen_cor_correction_mean vs run
χ² / ndf 69.75 / 80
p0 −251.1± 1206
pull
Entries 81
Mean 607.9
Std Dev 0

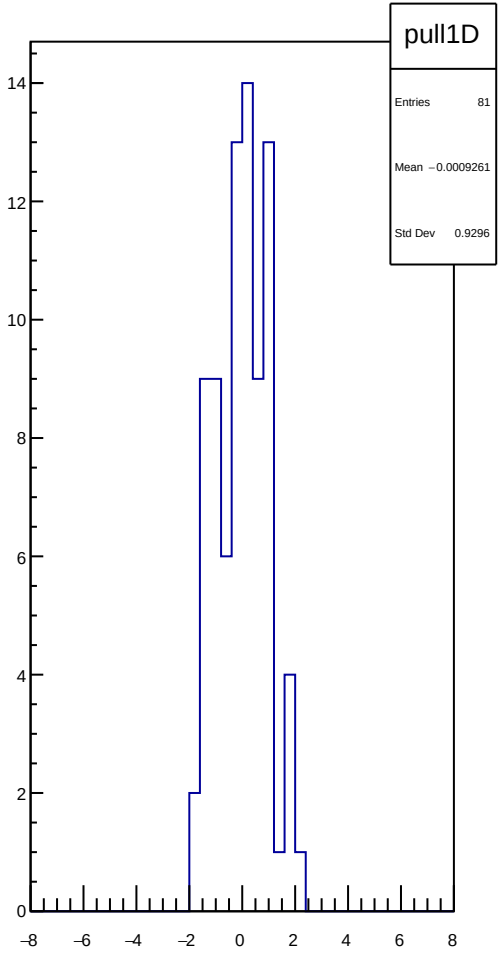

pull1D
Entries 81
Mean 0.007397
Std Dev 0.9279

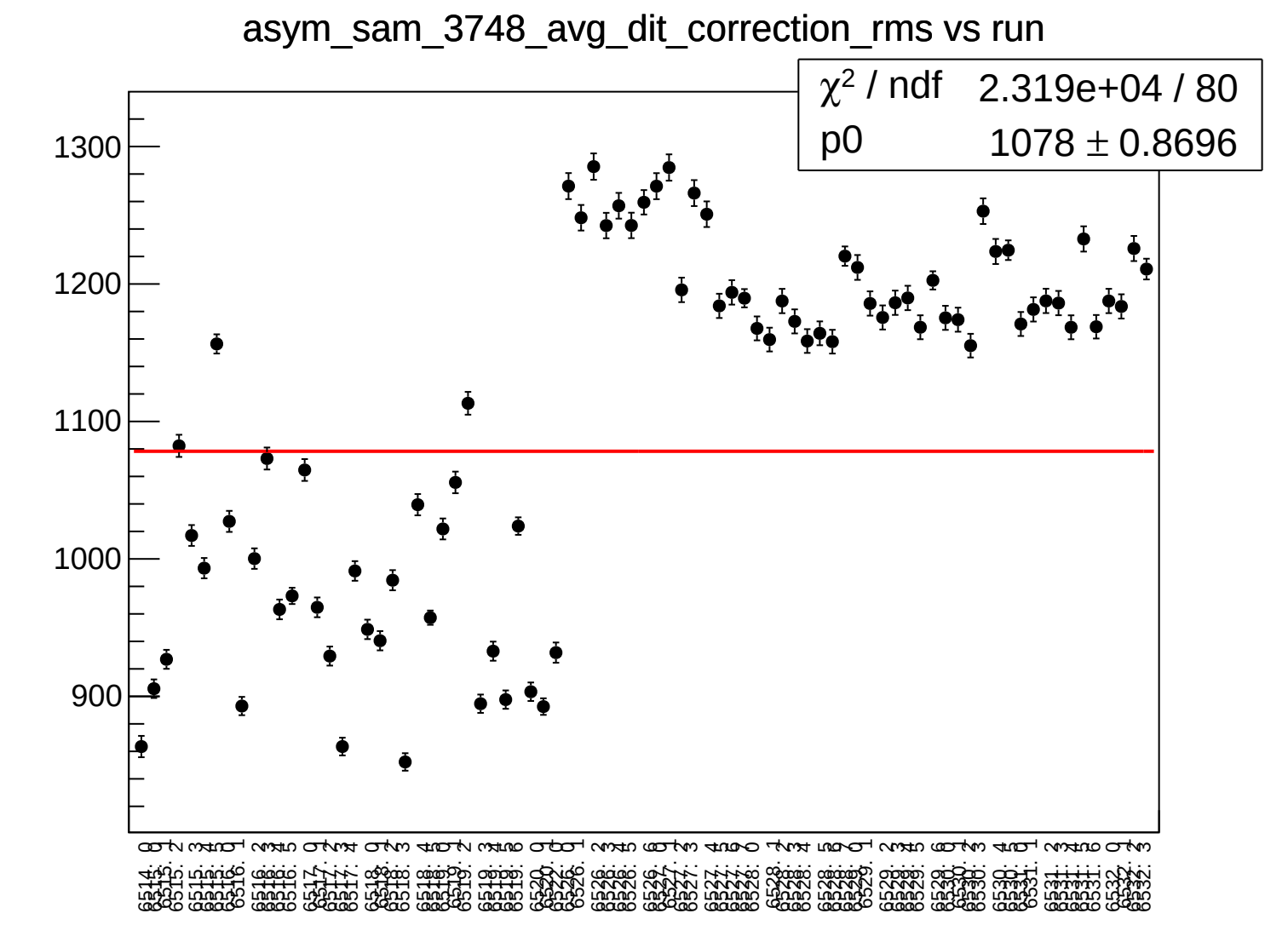

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.487e+04 / 80
p0 1053 ± 0.8525
1400
1300
1200
1100
1000
900
800

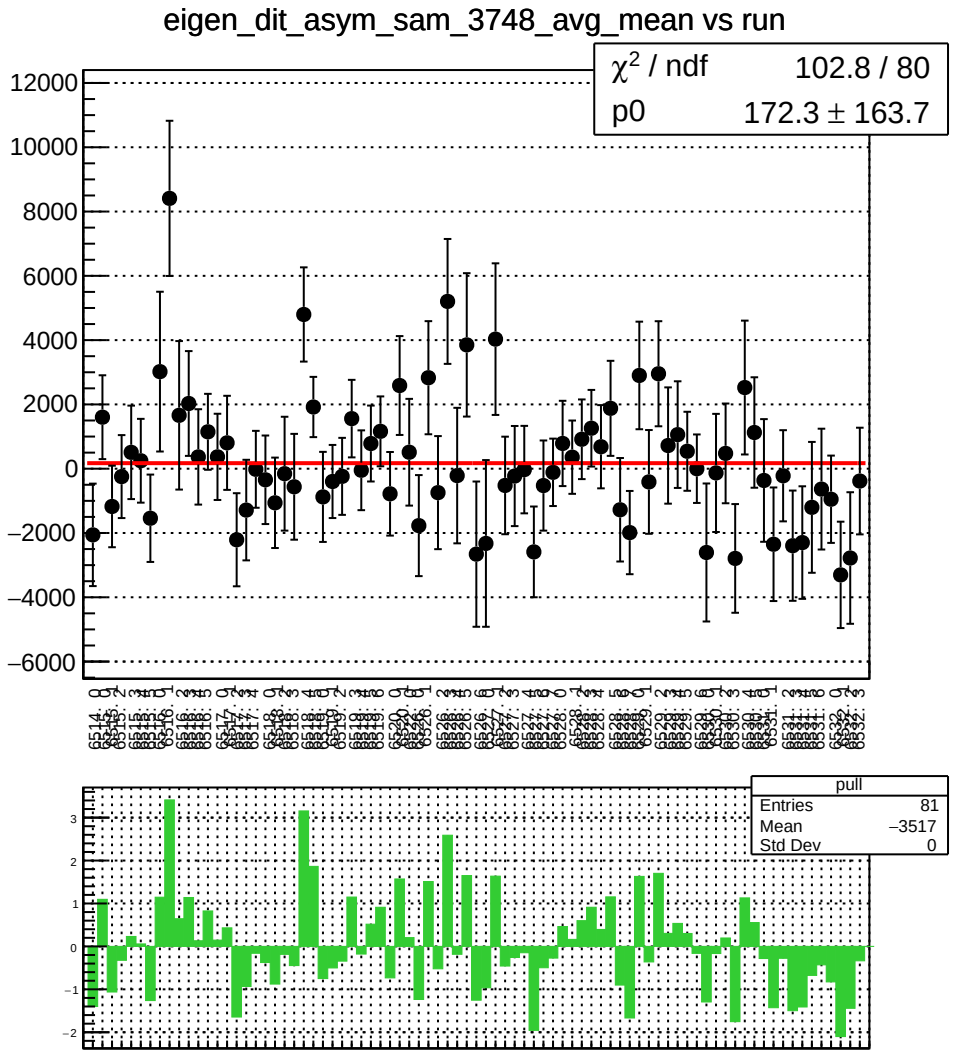

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 102.8 / 80
p0 172.3 ± 163.7
pull
Entries 81
Mean −3518
Std Dev 0
pull1D
Entries 81
Mean 0.001711
Std Dev 1.127

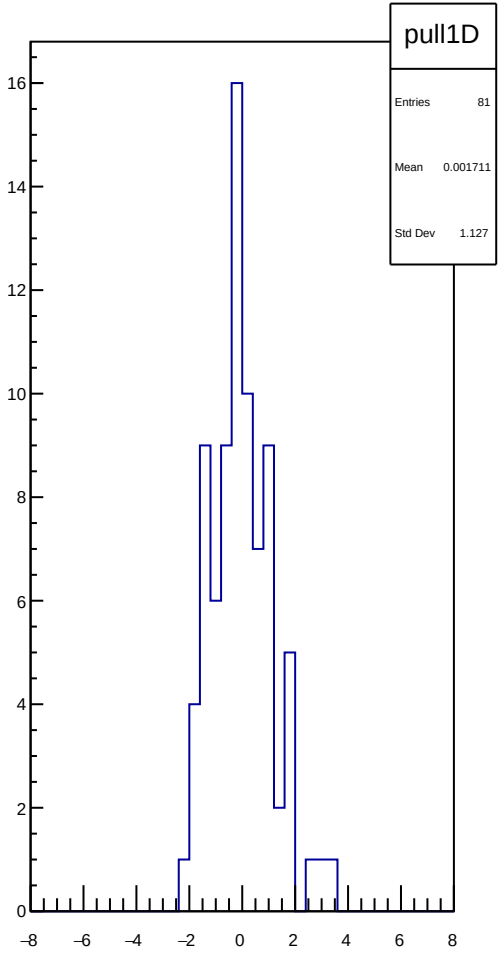

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 5.582e+04 / 80
p0 142 ± 0.1157
260
240
220
200
180
160
140
120
100

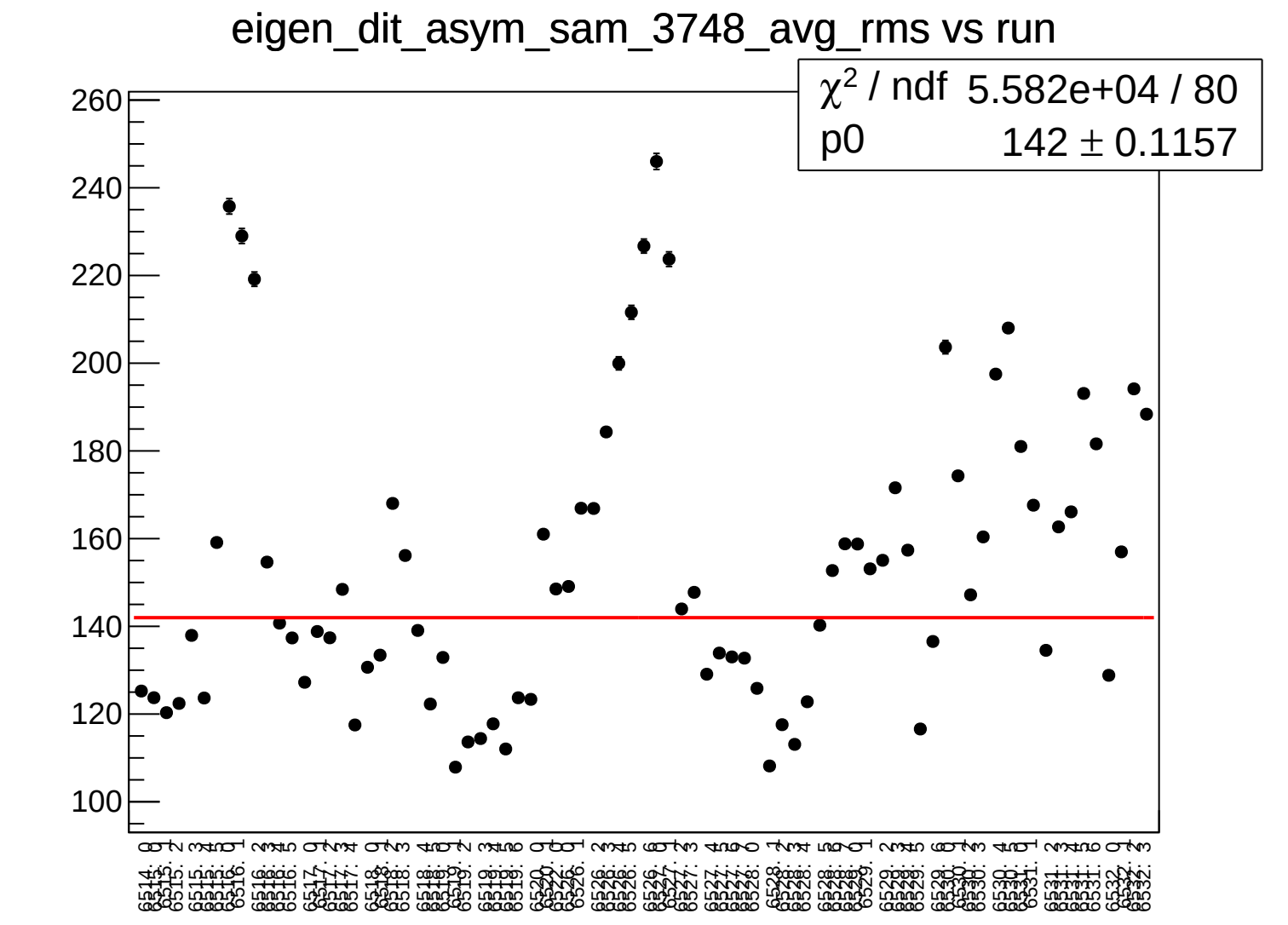

asym_sam_3748_avg_dit_correction_mean vs run
χ² / ndf 69.99 / 80
p0 −123.6 ± 1230
pull
Entries 81
Mean −3174
Std Dev 0

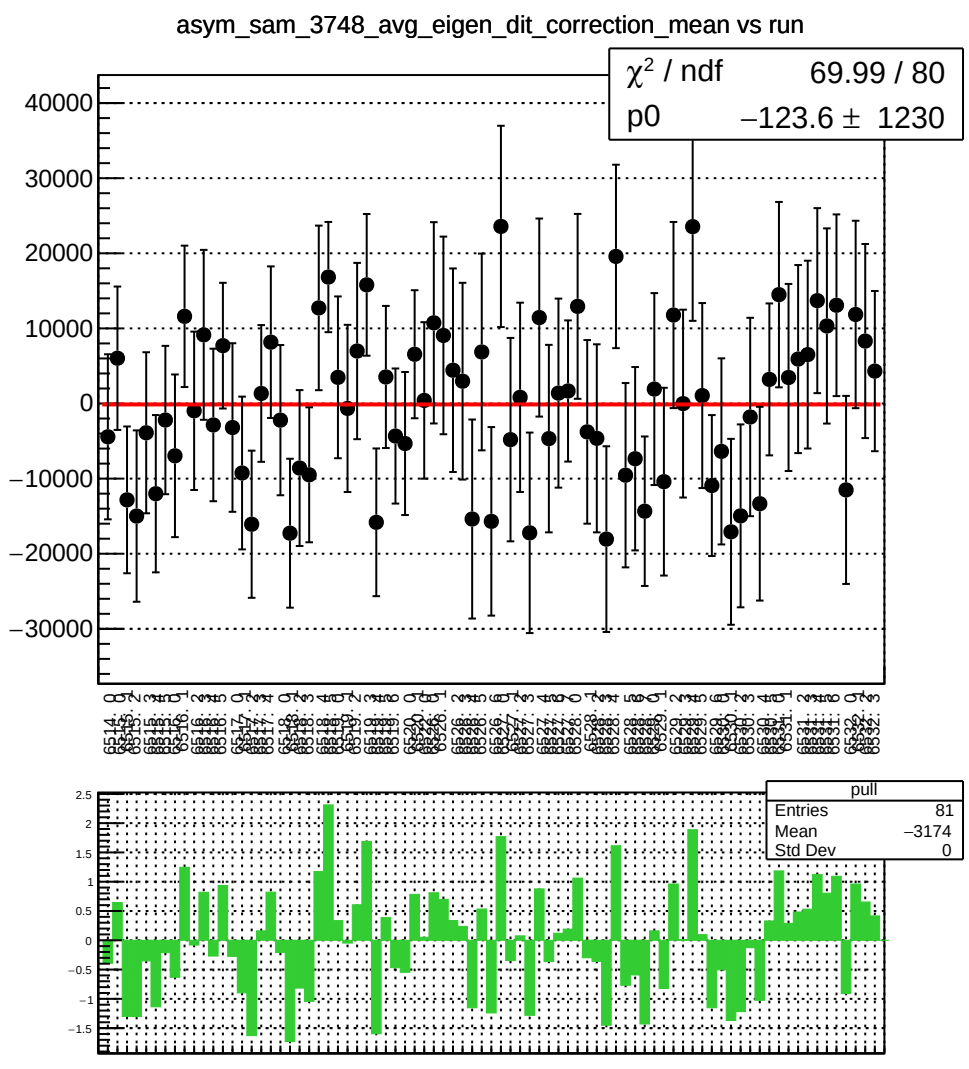

pull1D
Entries 81
Mean −0.0009261
Std Dev 0.9296

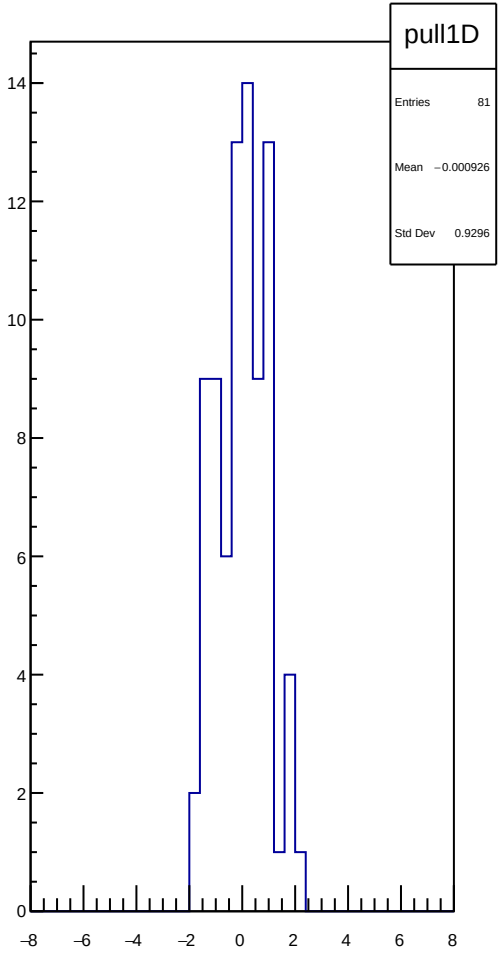

asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 2.319e+04 / 80
p0 1078 ± 0.8696
1300
1200
1100
1000
900

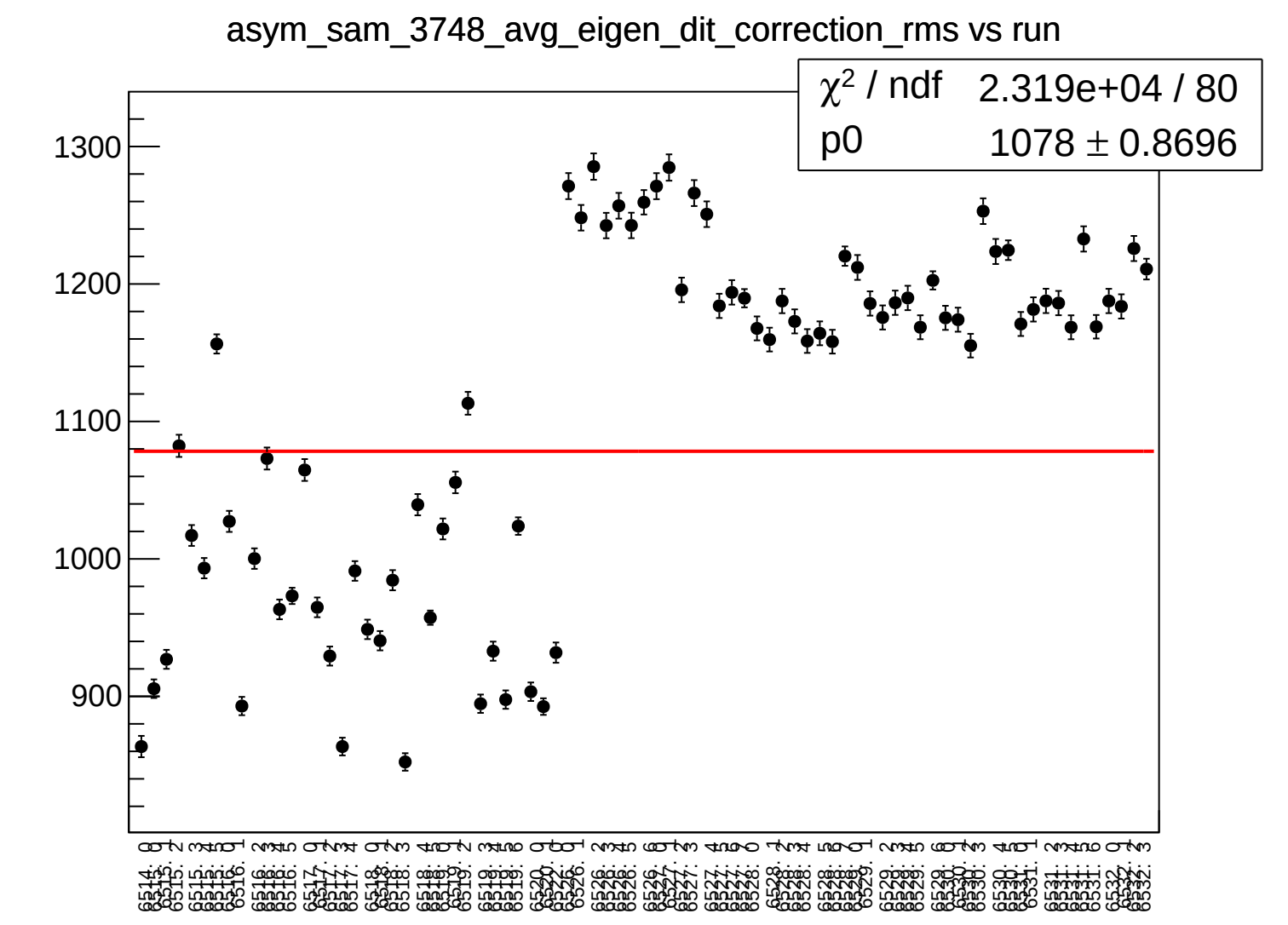

eigen_dit_asym_sam_3748_avg_mean vs run
χ² / ndf 102.8 / 80
p0 172.3 ± 163.7
pull
Entries 81
Mean −3517
Std Dev 0

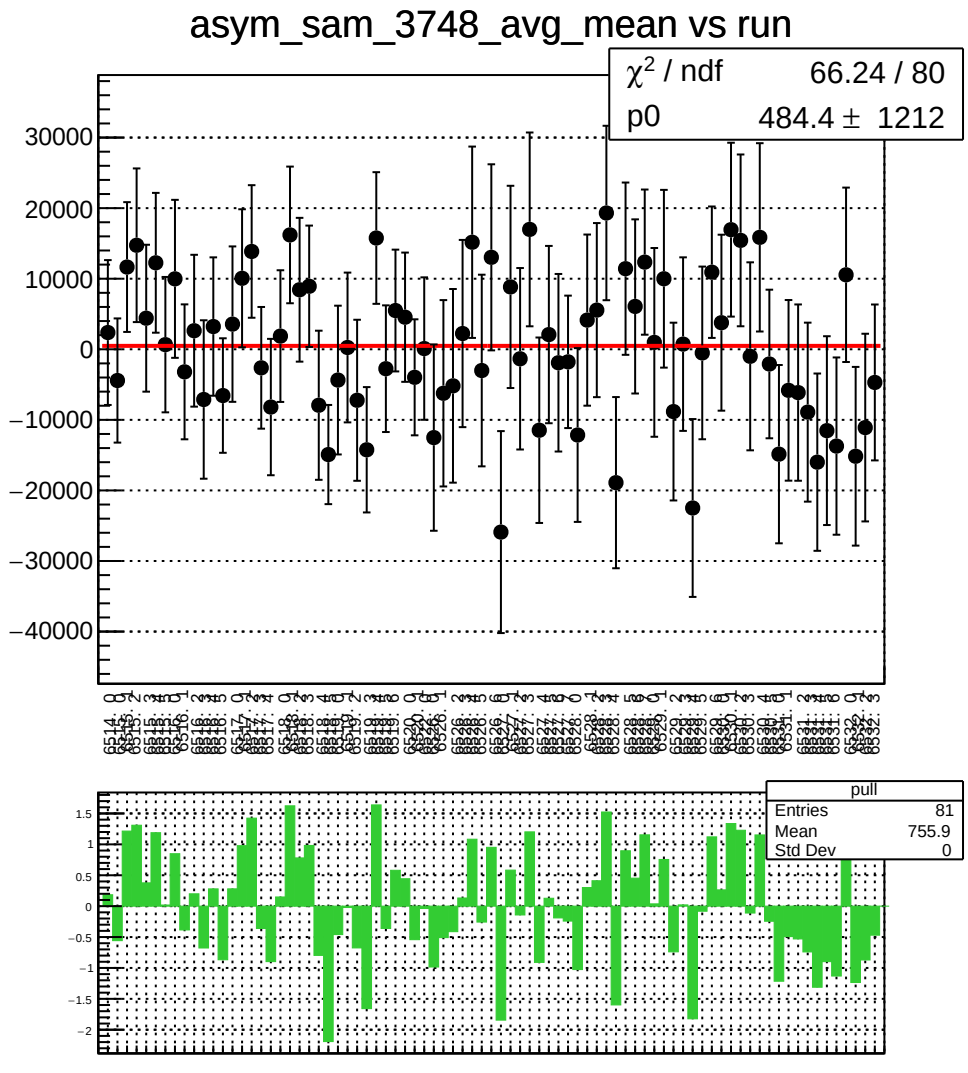

pull1D
Entries 81
Mean 0.001711
Std Dev 1.127

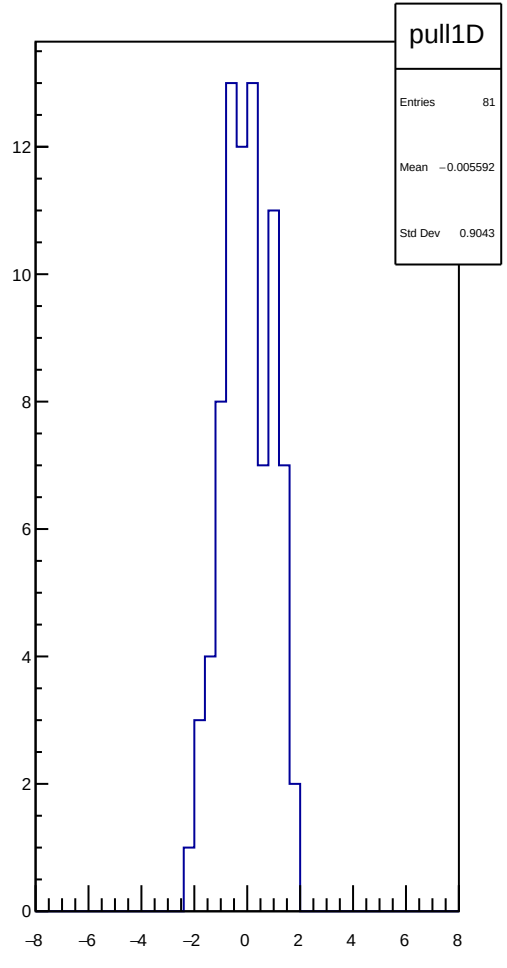

eigen_dit_asym_sam_3748_avg_rms vs run
χ² / ndf 5.582e+04 / 80
p0 142 ± 0.1157
260
240
220
200
180
160
140
120
100

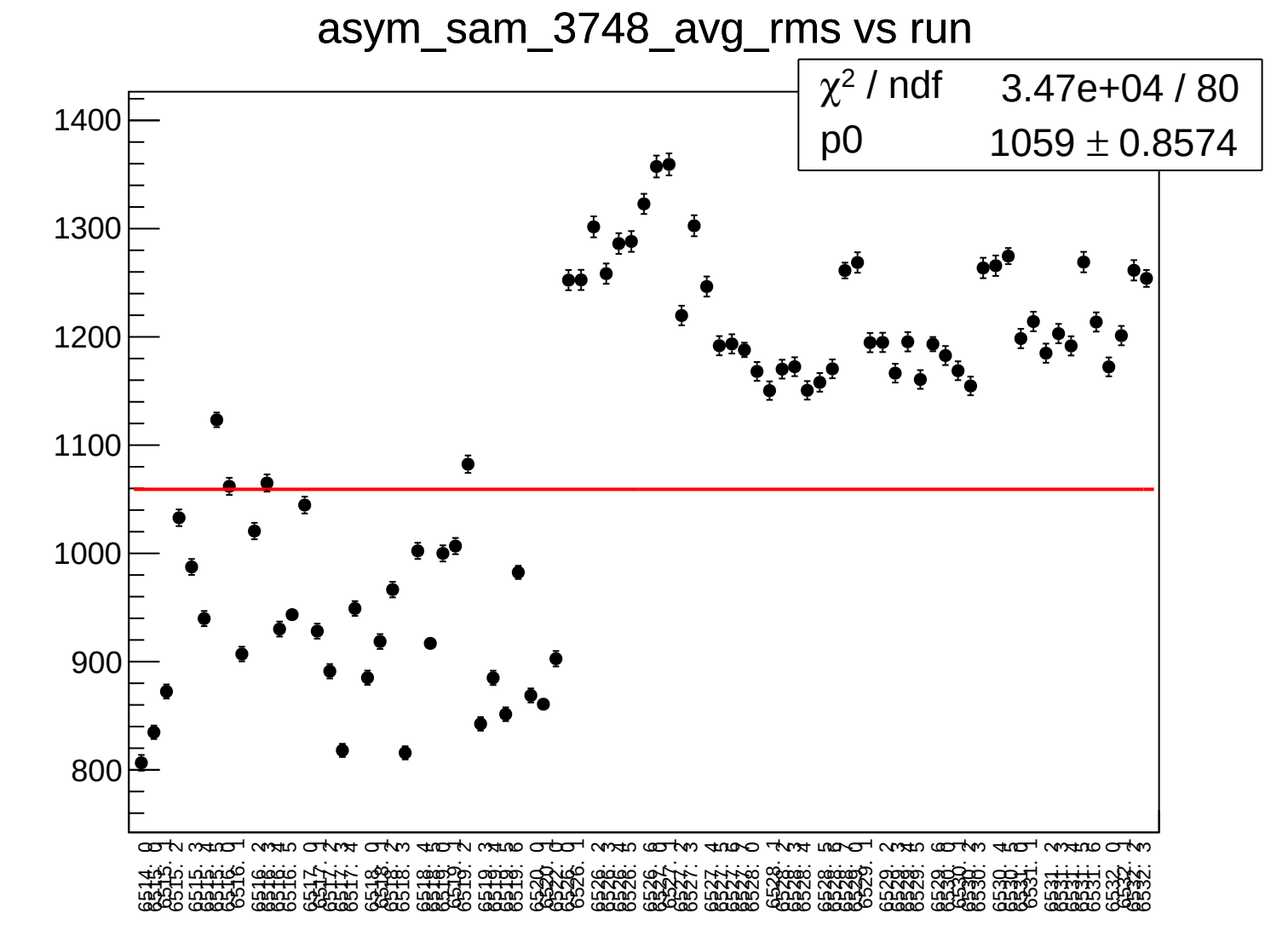

asym_sam_3748_avg_eigen_dit_correction_mean vs run
χ² / ndf 69.99 / 80
p0 −123.6 ± 1230
pull
Entries 81
Mean −3174
Std Dev 0

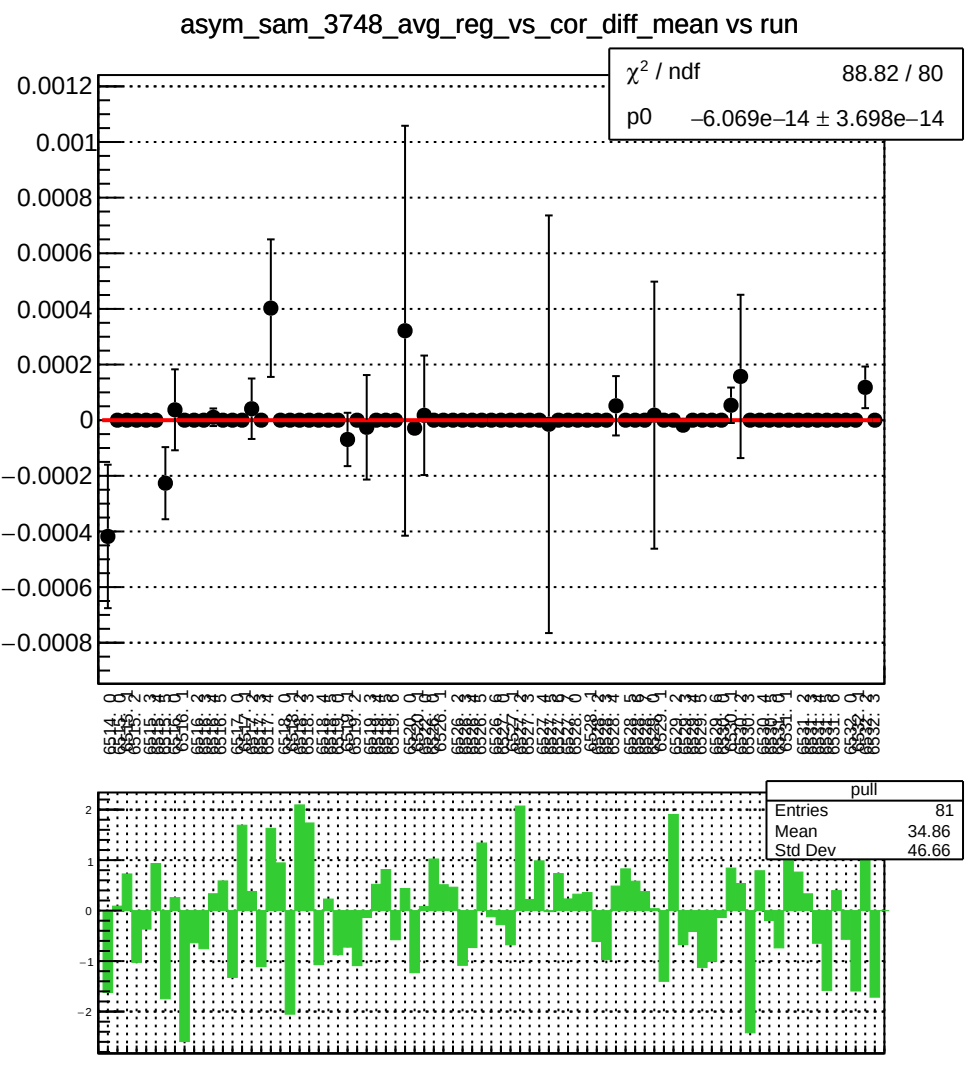

pull1D
Entries 81
Mean −0.000926
Std Dev 0.9296

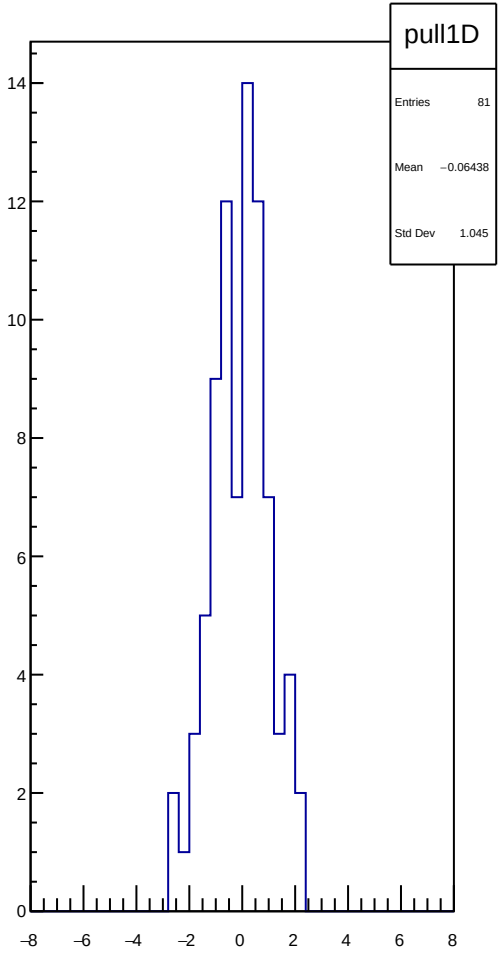

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.319e+04 / 80
p0 1078 ± 0.8696
1300
1200
1100
1000
900

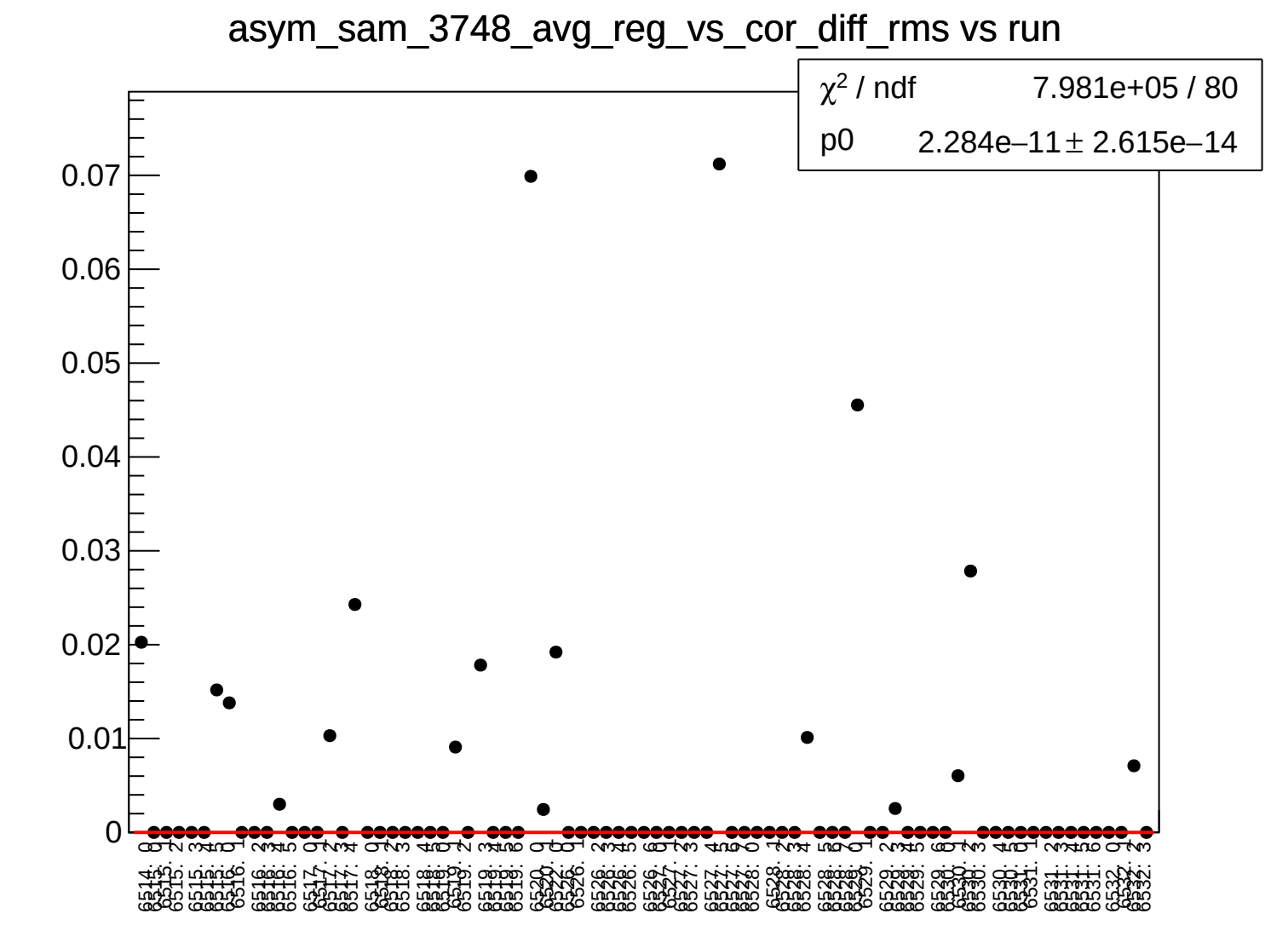

asym_sam_3748_avg_mean vs run
χ² / ndf 66.24 / 80
p0 484.4 ± 1212
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 81
Mean 755.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

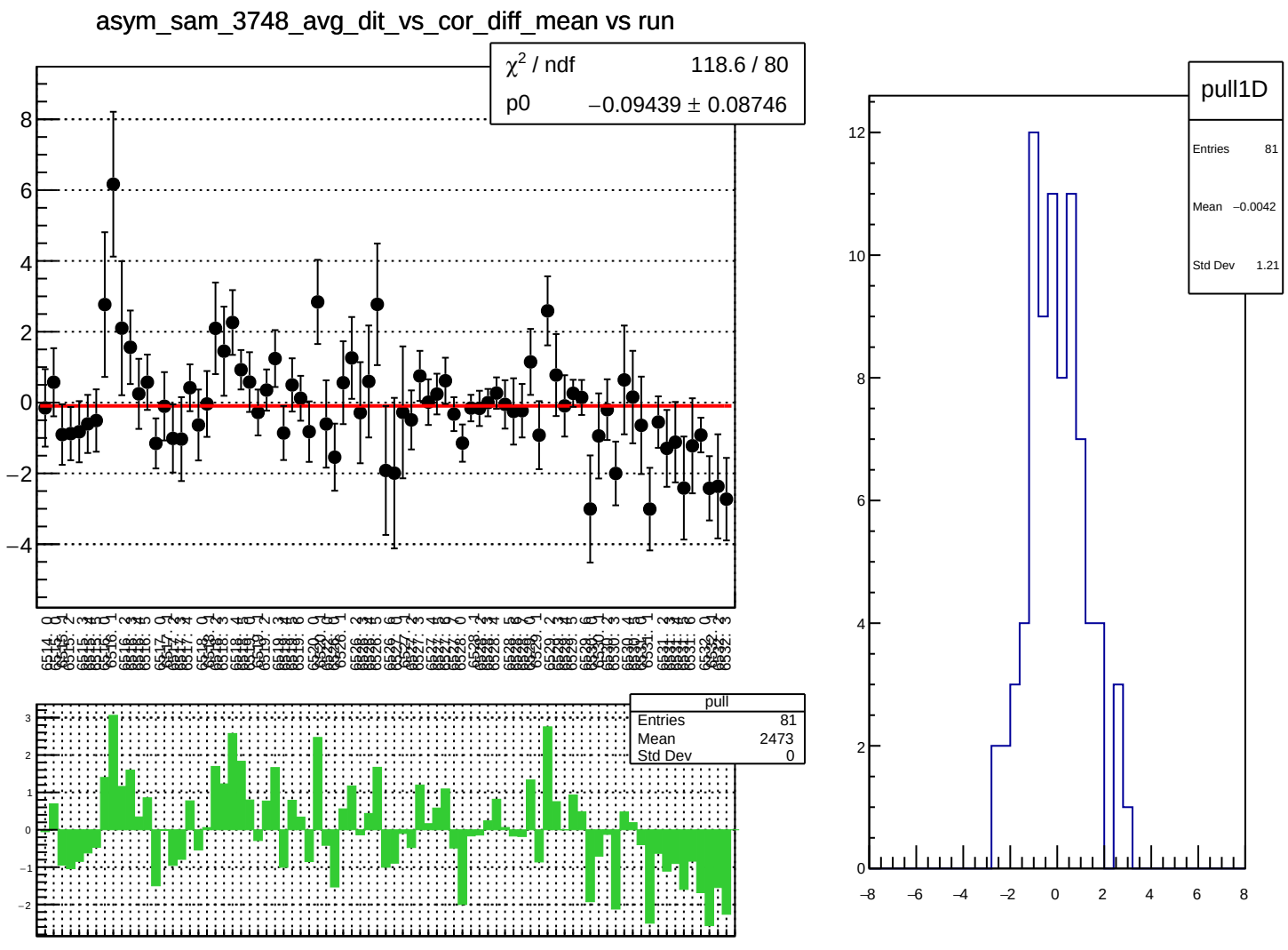

pull1D
Entries 81
Mean −0.005592
Std Dev 0.9043
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

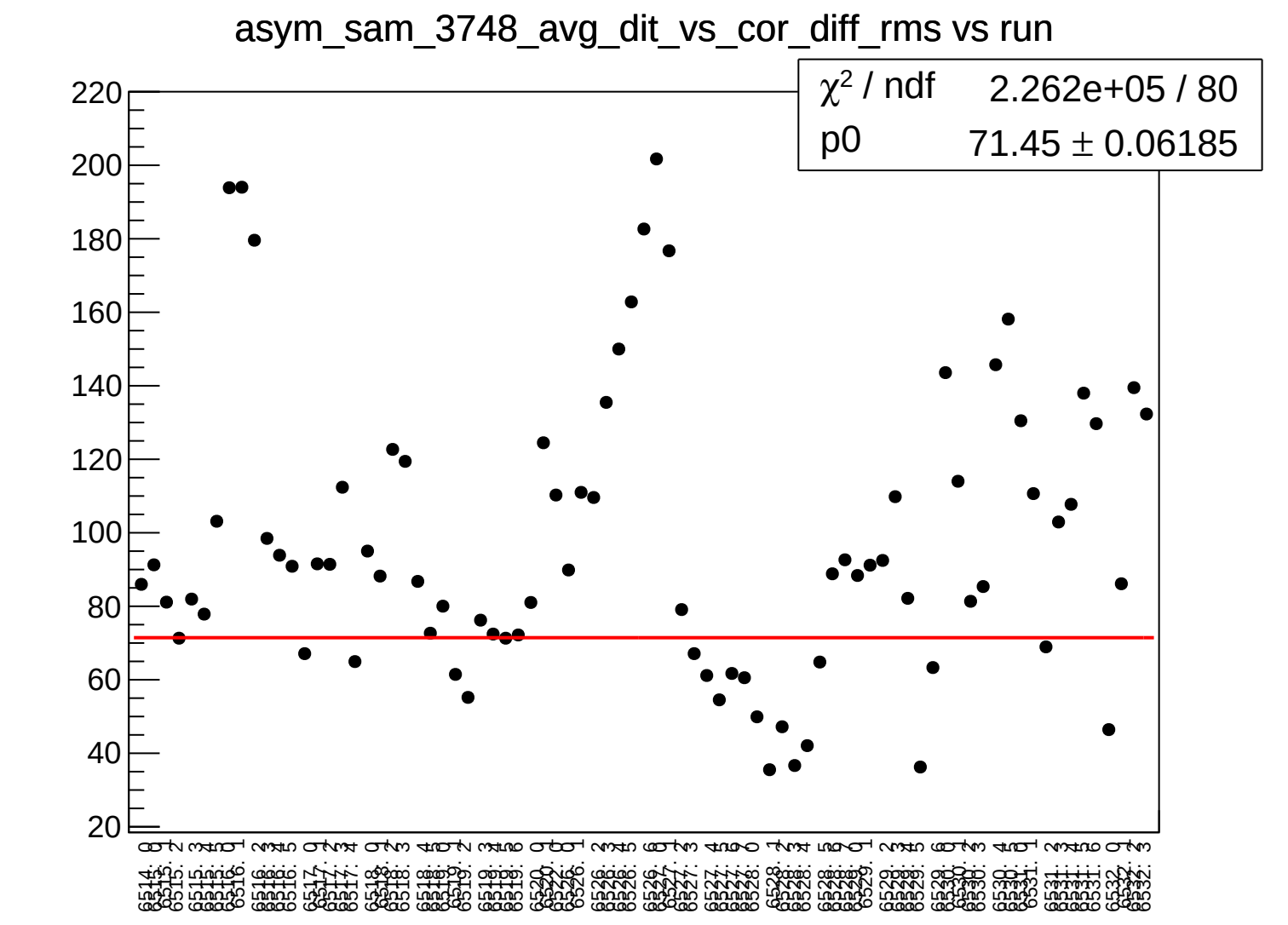

asym_sam_3748_avg_rms vs run
χ² / ndf 3.47e+04 / 80
p0 1059 ± 0.8574
1400
1300
1200
1100
1000
900
800

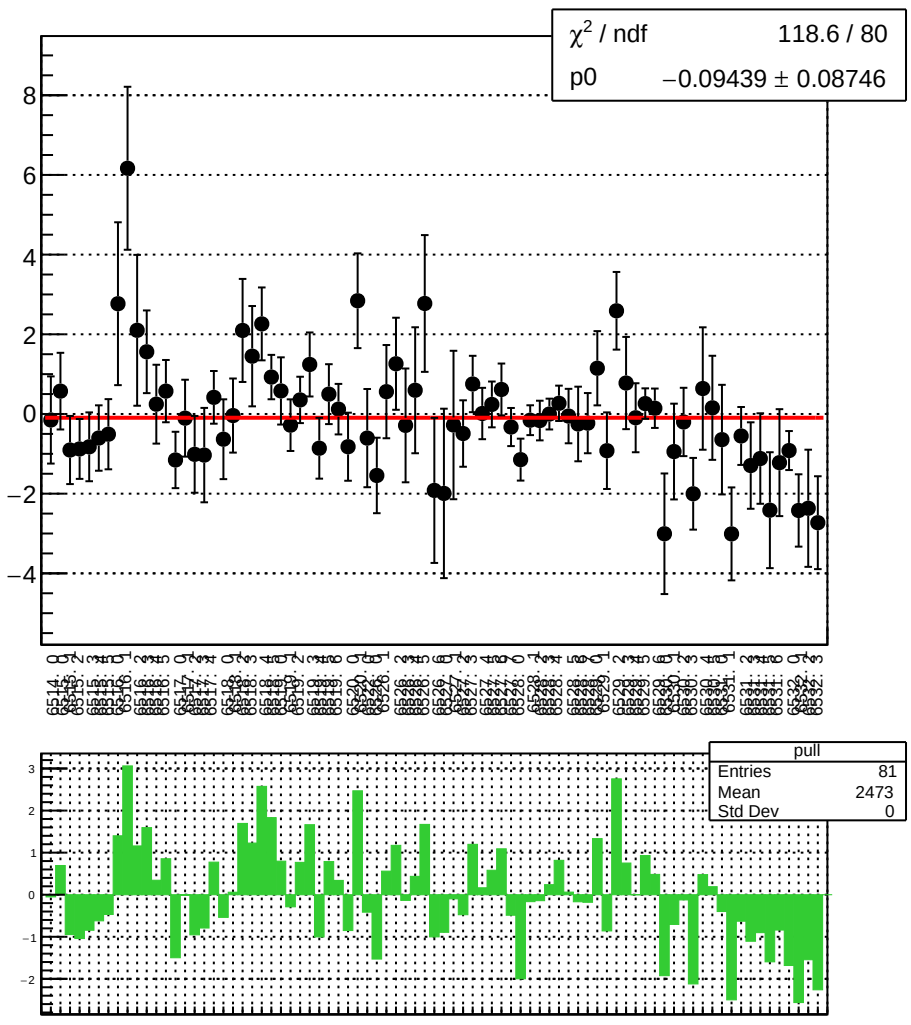

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 88.82 / 80
p0 −6.069e−14 ± 3.698e−14
pull
Entries 81
Mean 34.86
Std Dev 46.66

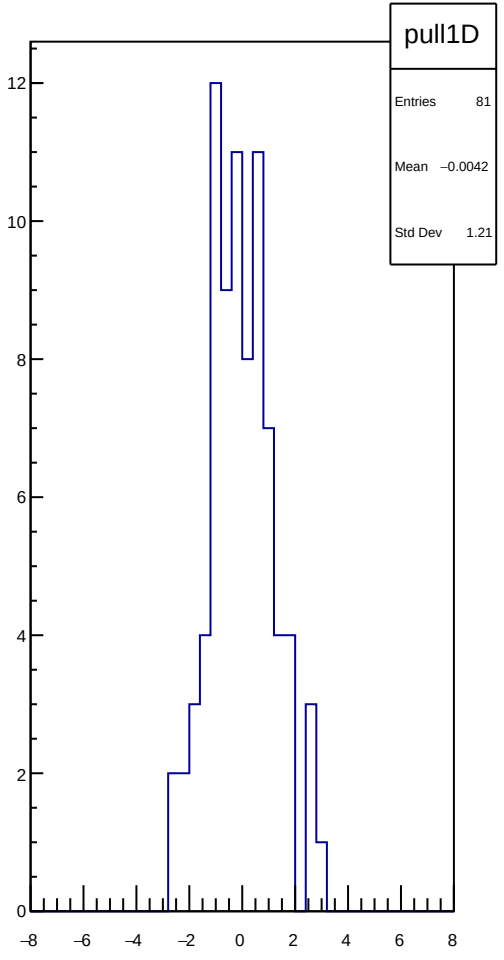

pull1D
Entries 81
Mean −0.06438
Std Dev 1.045

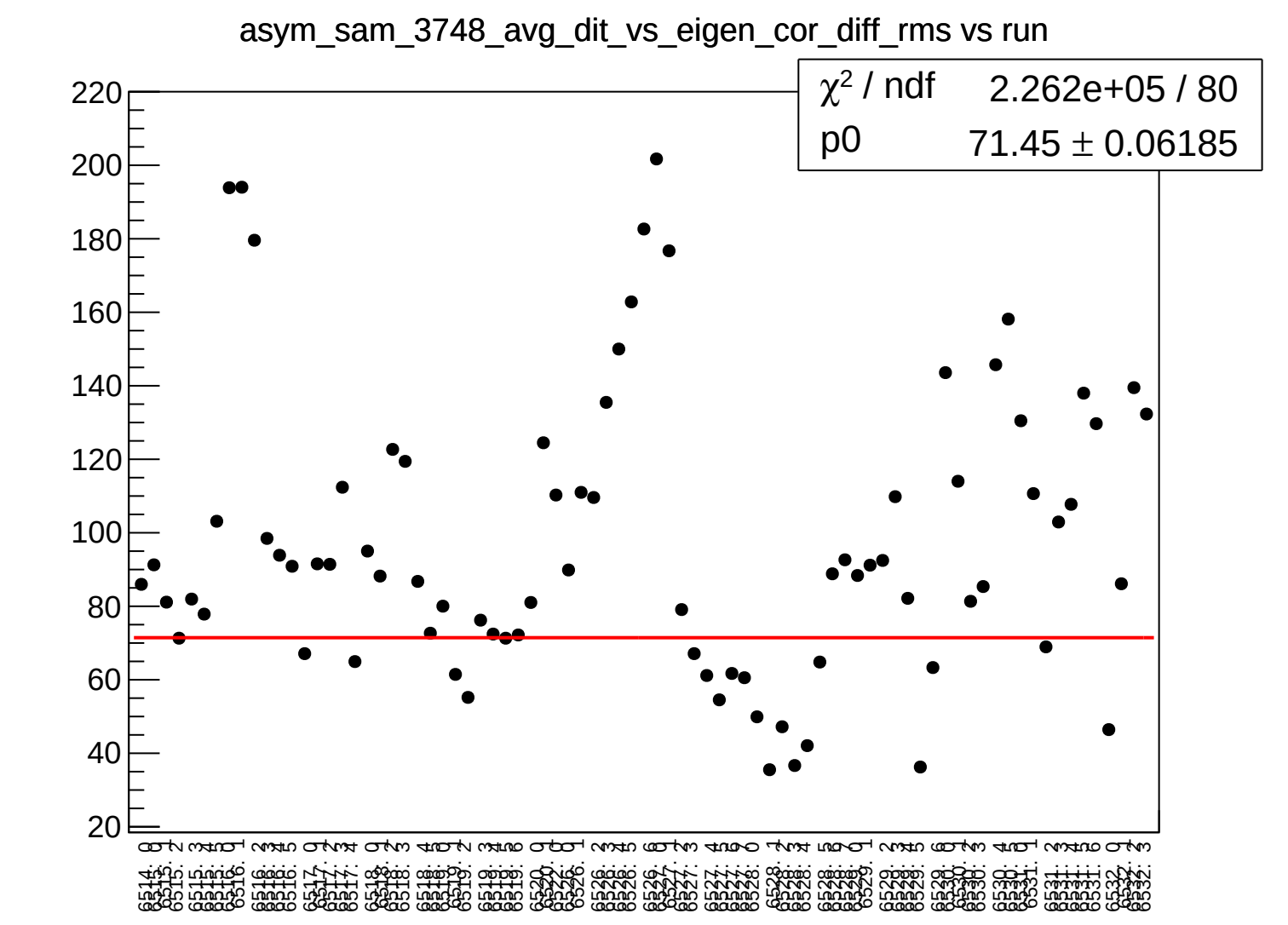

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 7.981e+05 / 80
p0 2.284e−11 ± 2.615e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

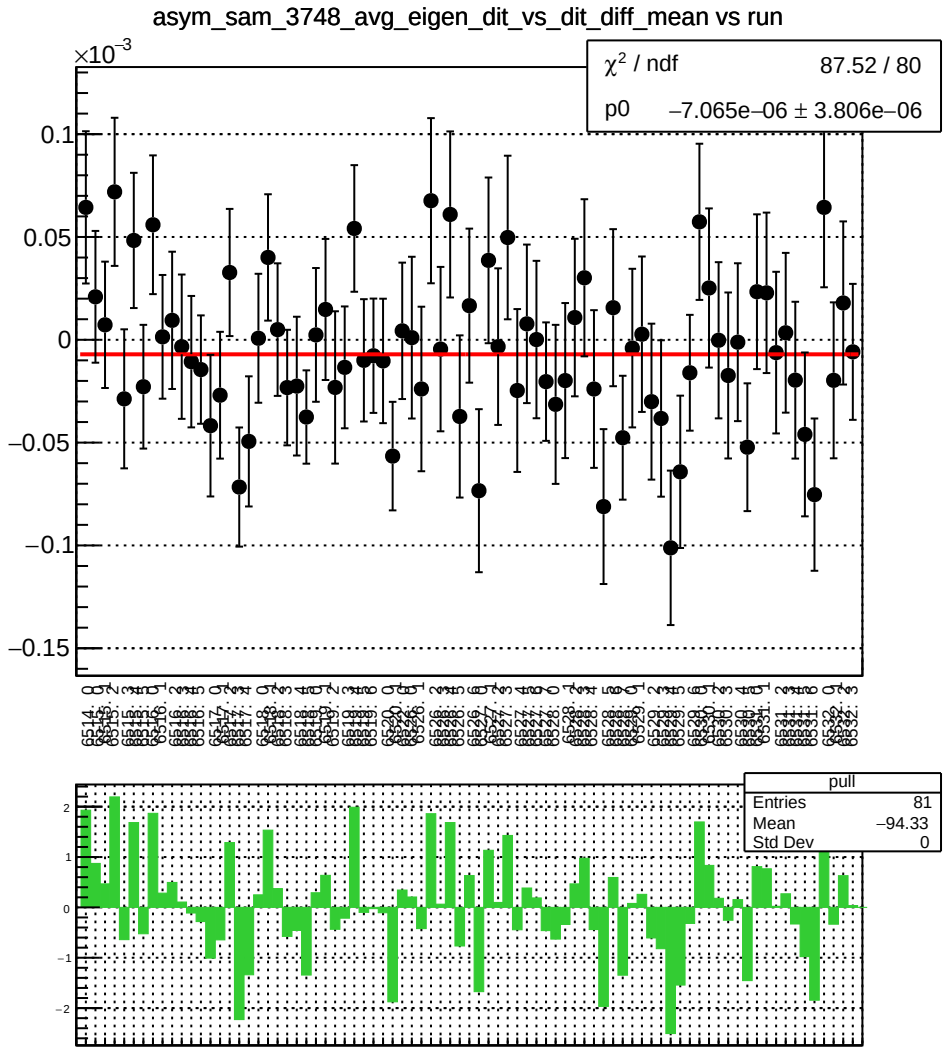

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 118.6 / 80
p0 −0.09439 ± 0.08746
pull
Entries 81
Mean 2473
Std Dev 0
pull1D
Entries 81
Mean −0.0042
Std Dev 1.21

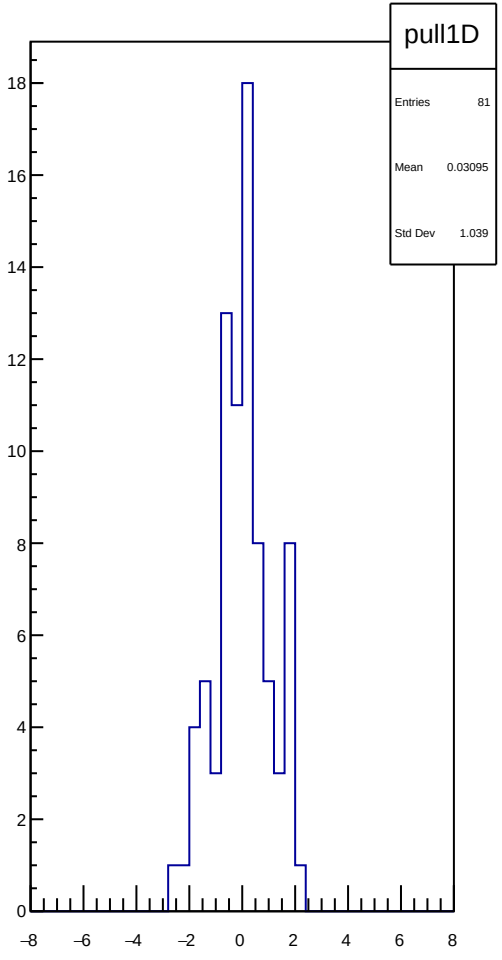

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.262e+05 / 80
p0 71.45 ± 0.06185
220
200
180
160
140
120
100
80
60
40
20

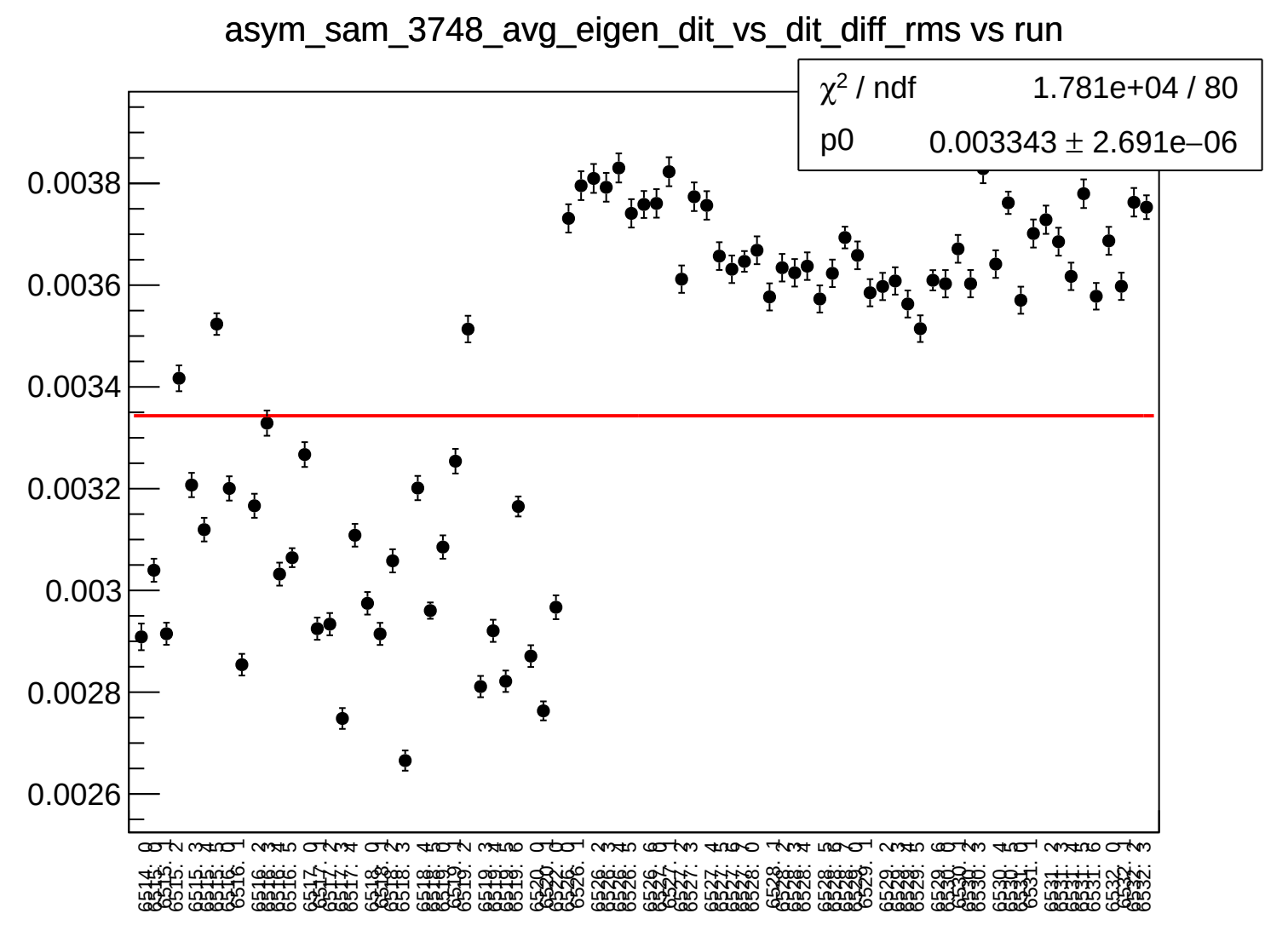

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 118.6 / 80
p0 −0.09439 ± 0.08746
pull
Entries 81
Mean 2473
Std Dev 0

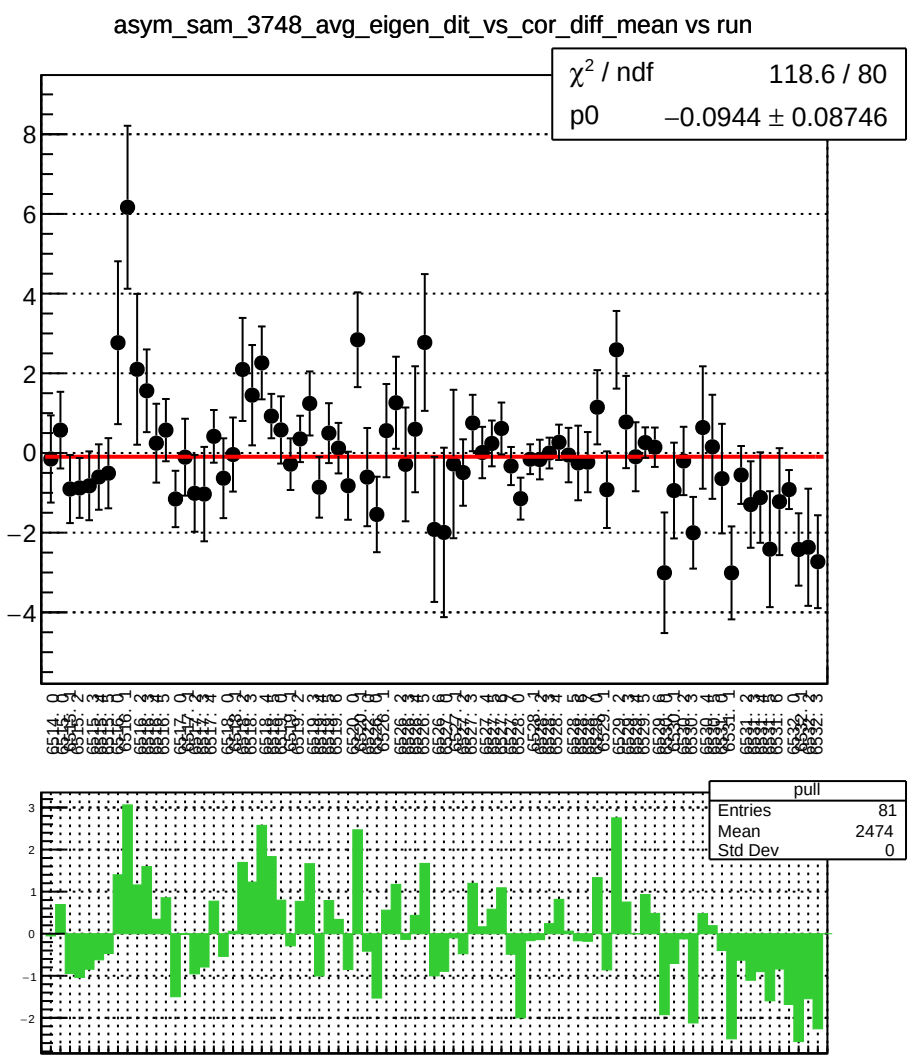

pull1D
Entries 81
Mean −0.0042
Std Dev 1.21

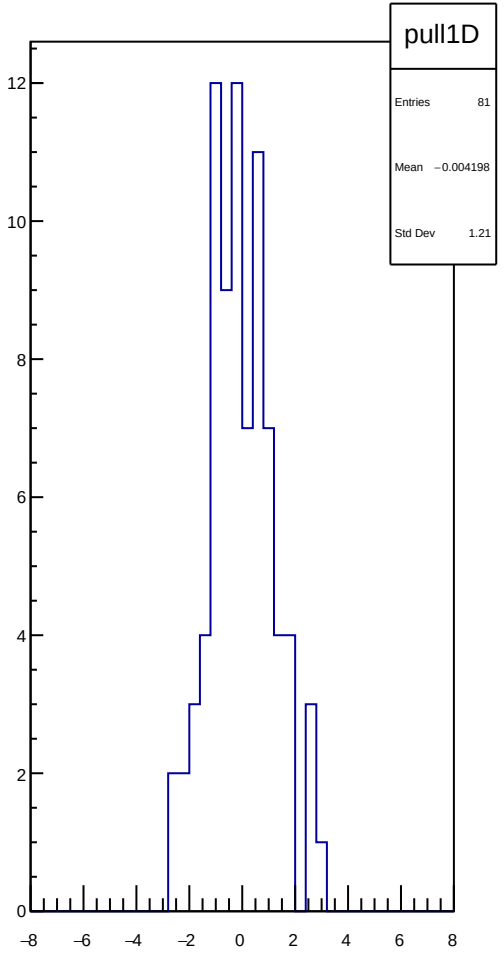

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.262e+05 / 80
p0 71.45 ± 0.06185
220
200
180
160
140
120
100
80
60
40
20

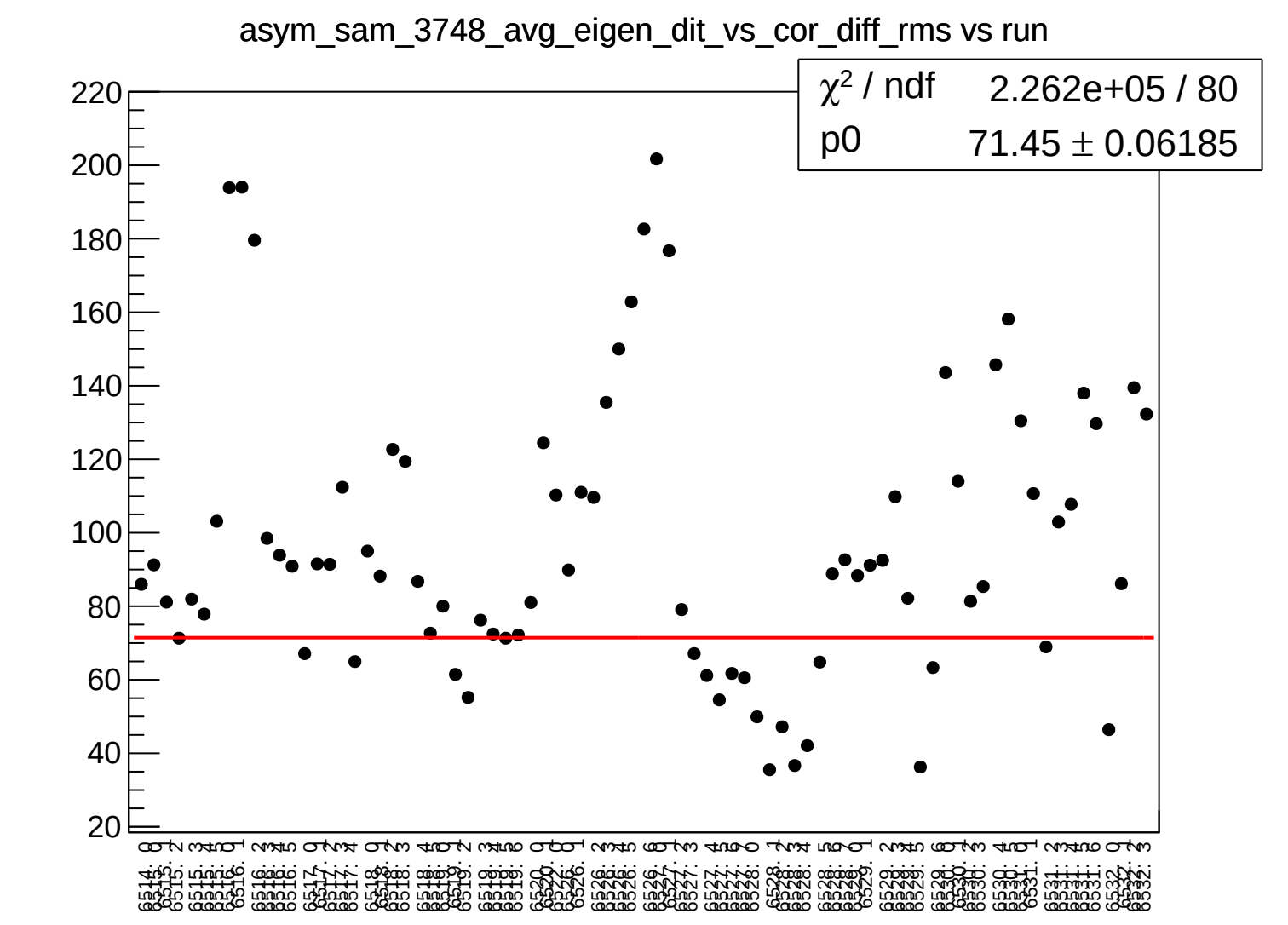

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.52 / 80
p0 −7.065e−06 ± 3.806e−06
pull
Entries 81
Mean −94.33
Std Dev 0

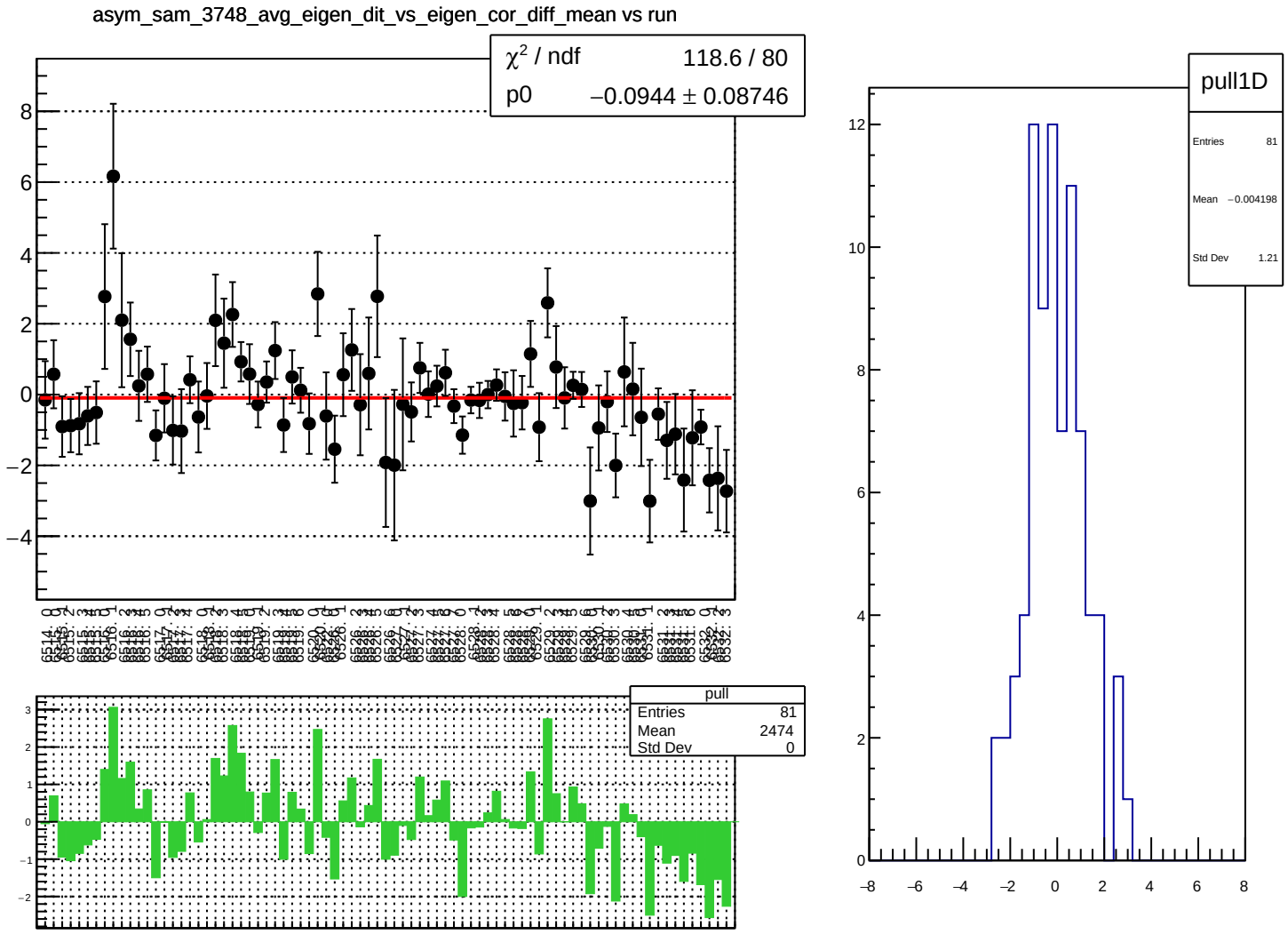

pull1D
Entries 81
Mean 0.03095
Std Dev 1.039

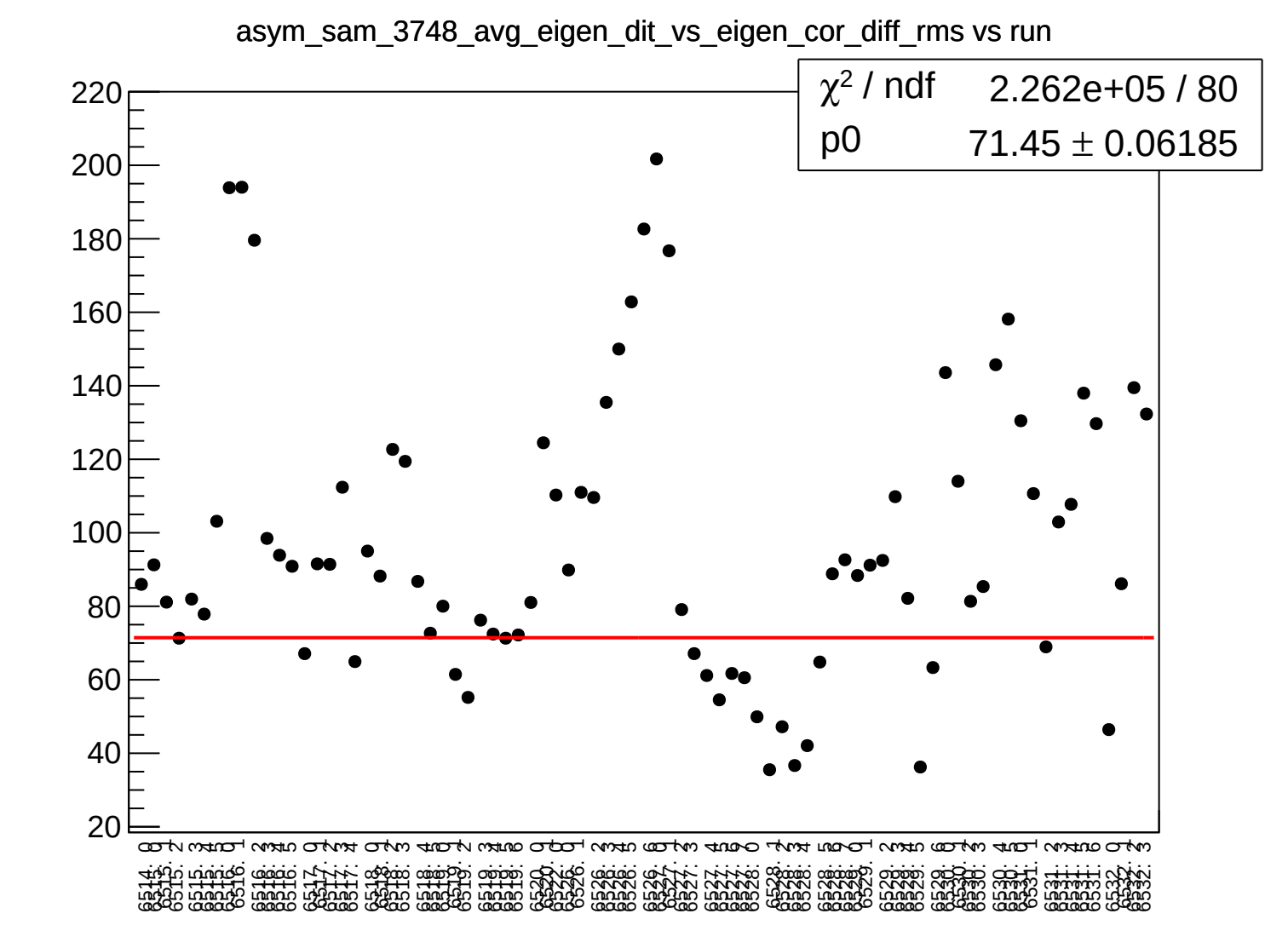

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.781e+04 / 80
p0 0.003343 ± 2.691e−06
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

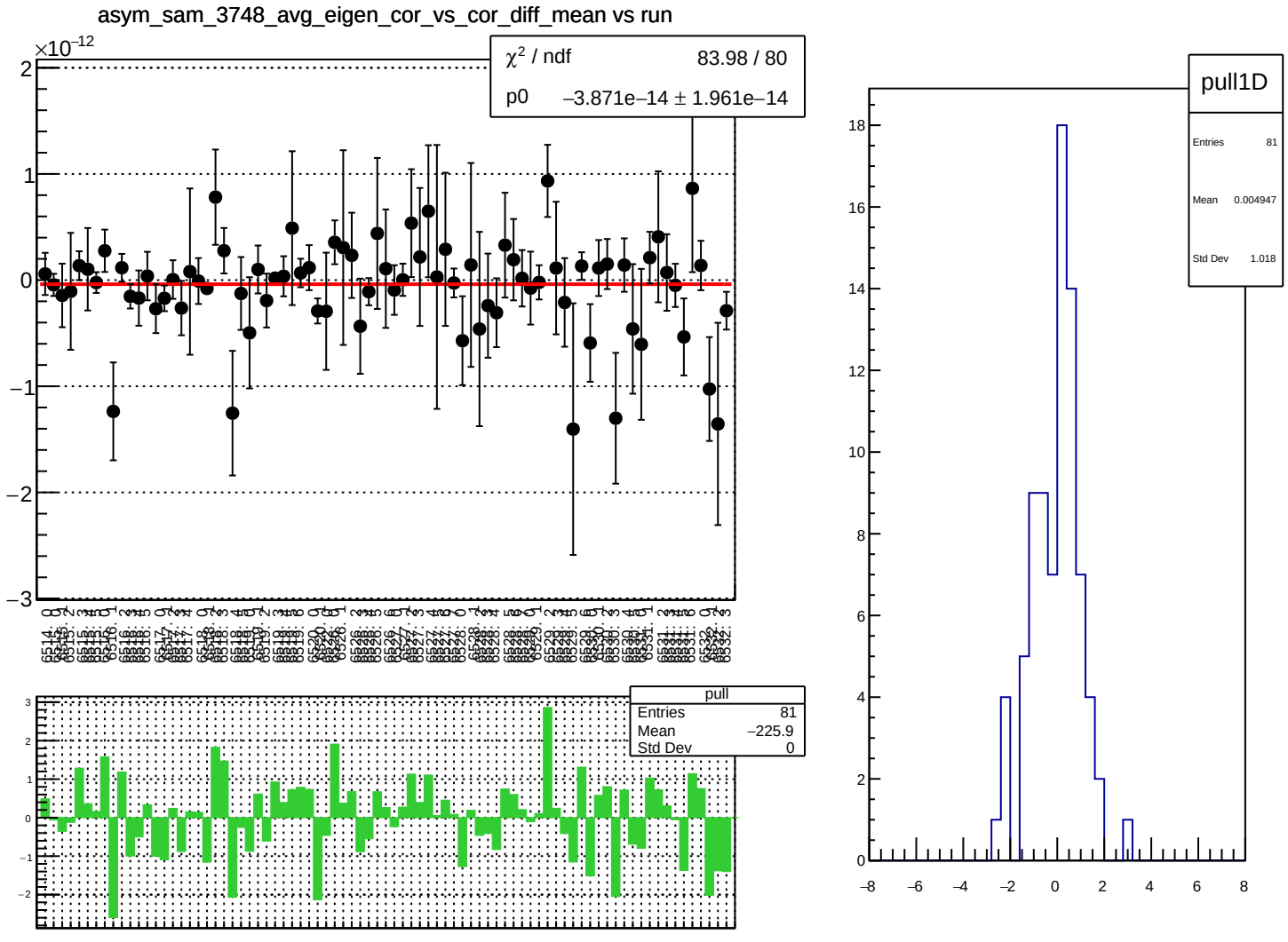

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 118.6 / 80
p0 −0.0944 ± 0.08746
pull
Entries 81
Mean 2474
Std Dev 0

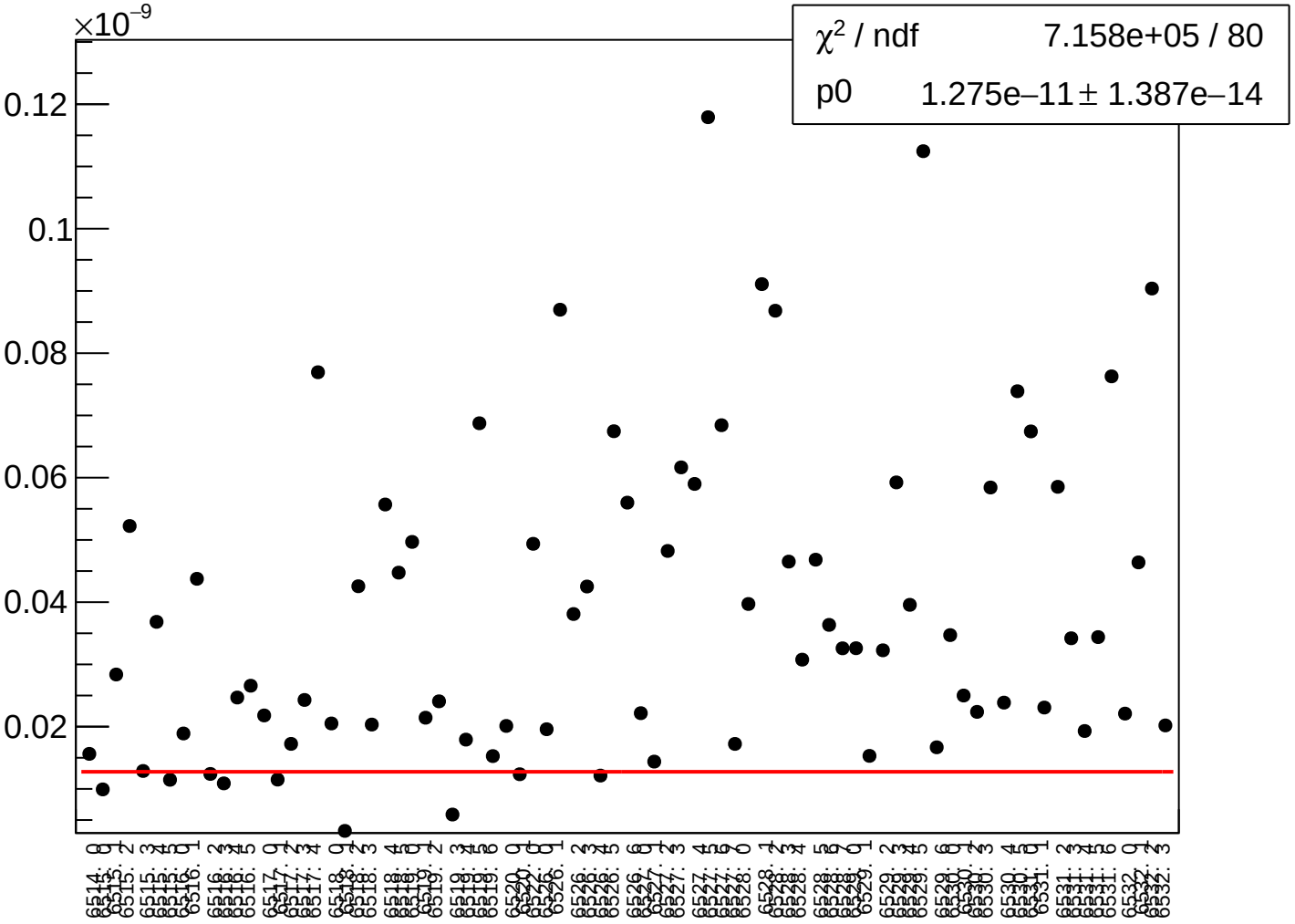

pull1D
Entries 81
Mean −0.004198
Std Dev 1.21

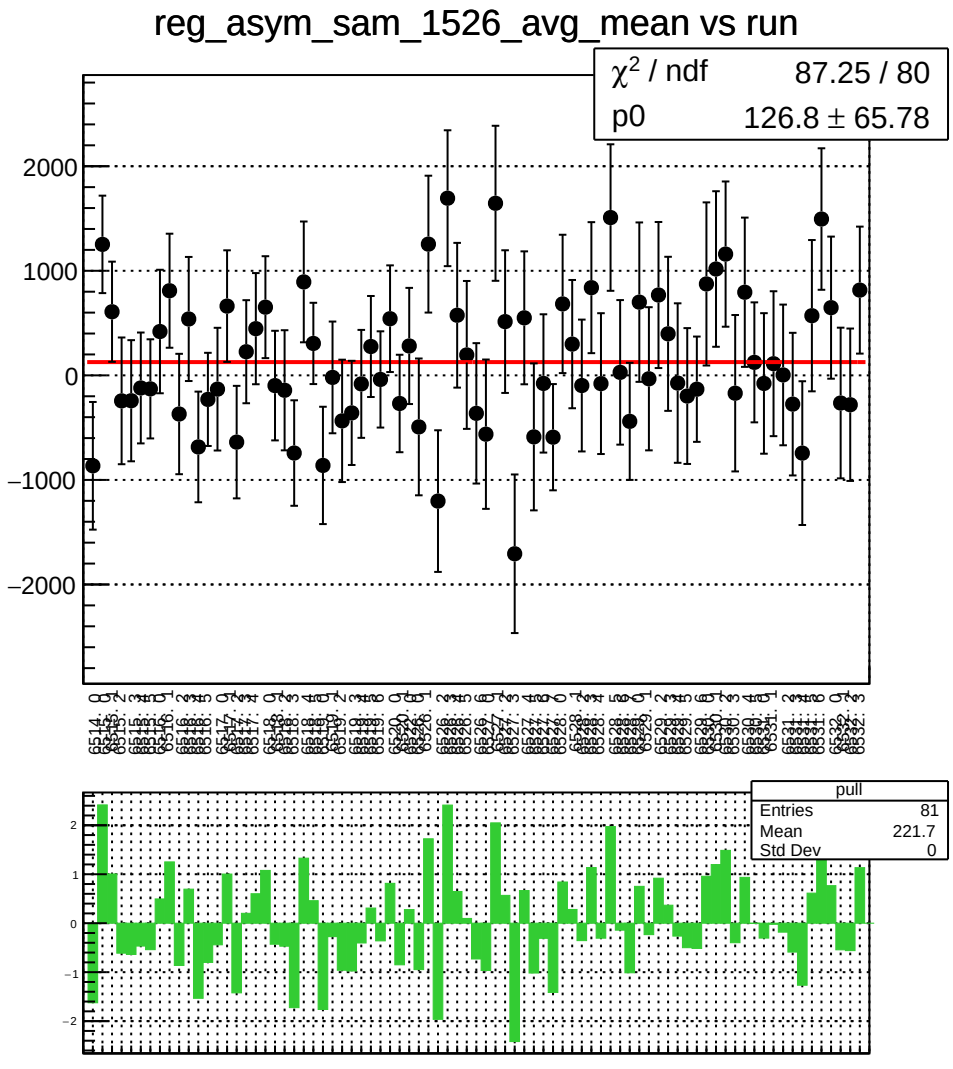

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.262e+05 / 80
p0 71.45 ± 0.06185
220
200
180
160
140
120
100
80
60
40
20

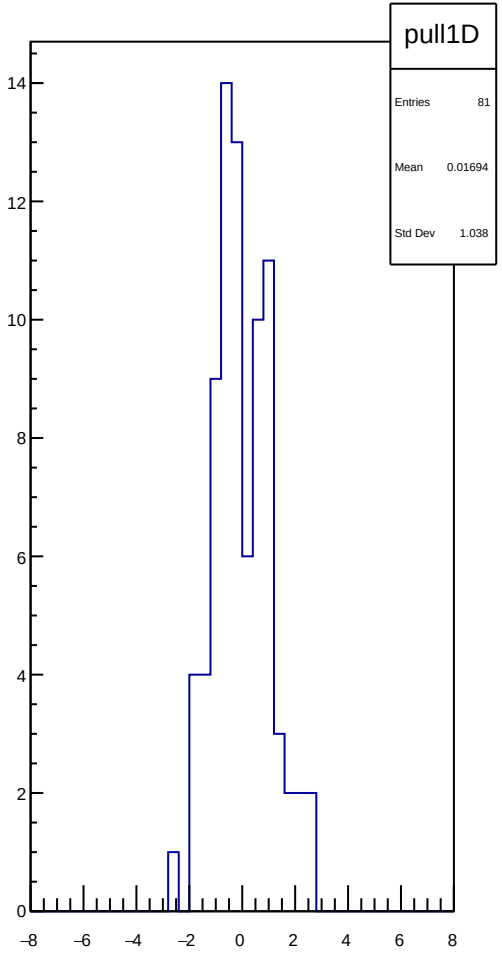

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 118.6 / 80
p0 −0.0944 ± 0.08746
pull
Entries 81
Mean 2474
Std Dev 0
pull1D
Entries 81
Mean −0.004198
Std Dev 1.21

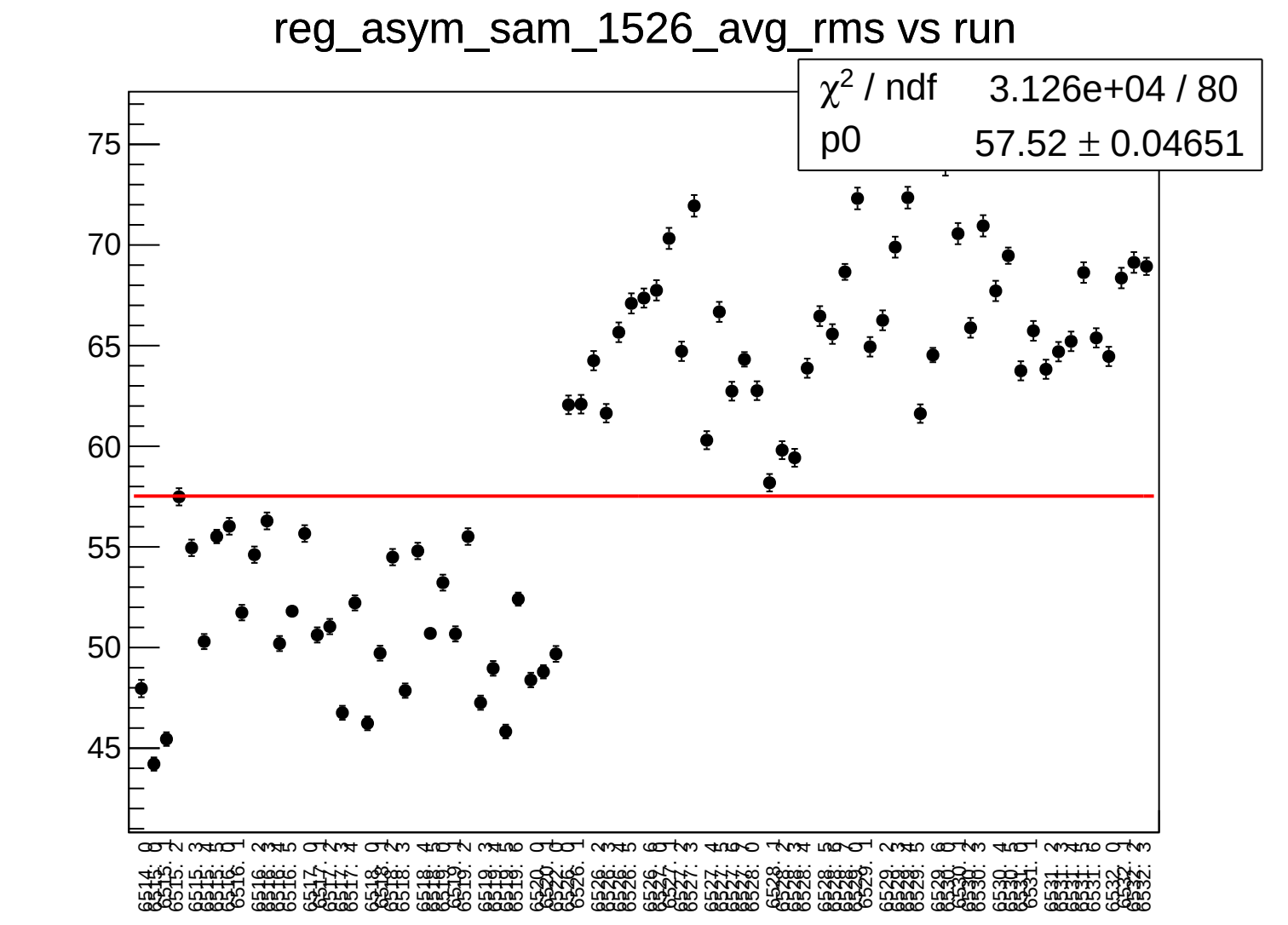

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.262e+05 / 80
p0 71.45 ± 0.06185
220
200
180
160
140
120
100
80
60
40
20

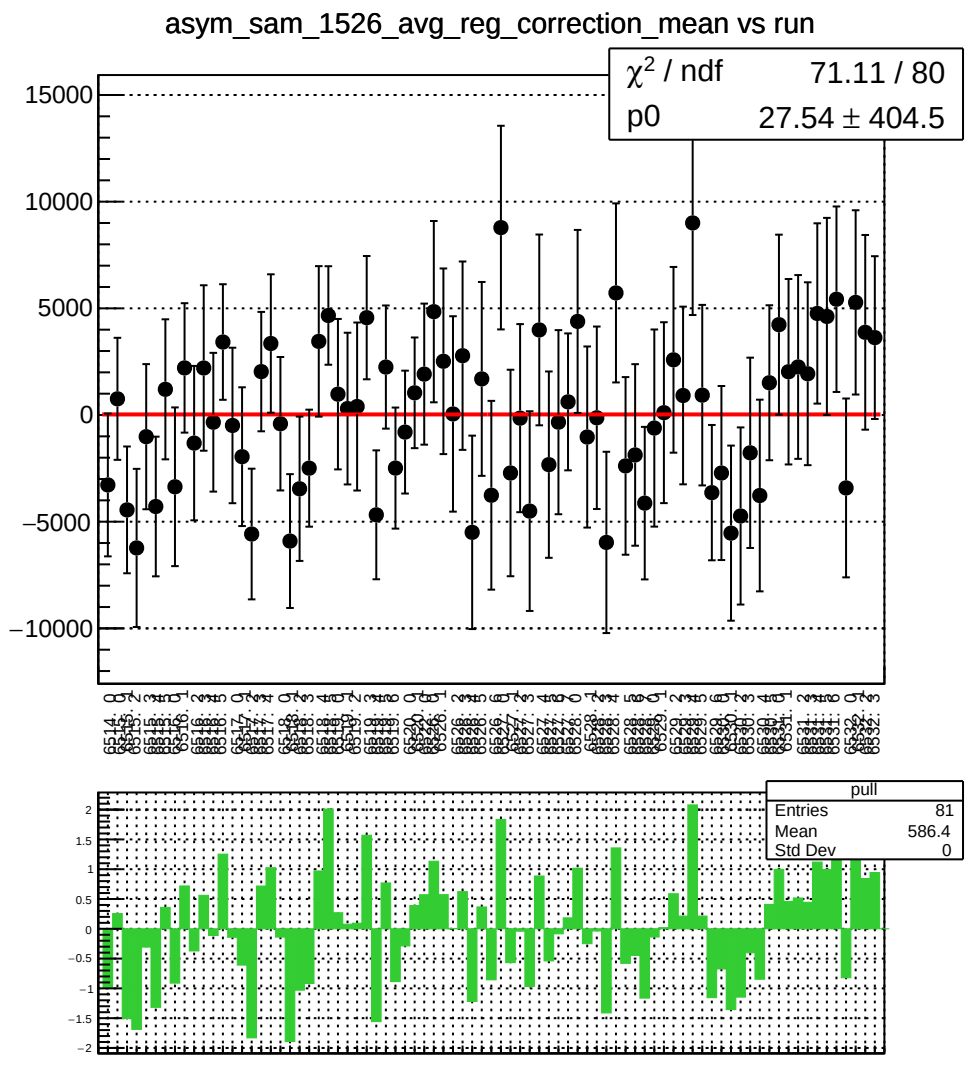

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.98 / 80
p0 −3.871e−14 ± 1.961e−14
pull
Entries 81
Mean −225.9
Std Dev 0
pull1D
Entries 81
Mean 0.004947
Std Dev 1.018

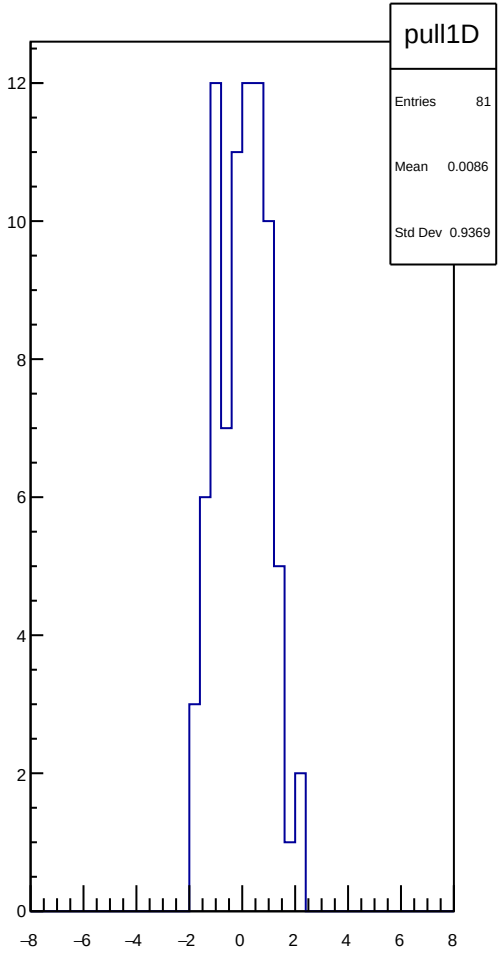

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.158e+05 / 80
p0 1.275e−11 ± 1.387e−14
0.12
0.1
0.08
0.06
0.04
0.02

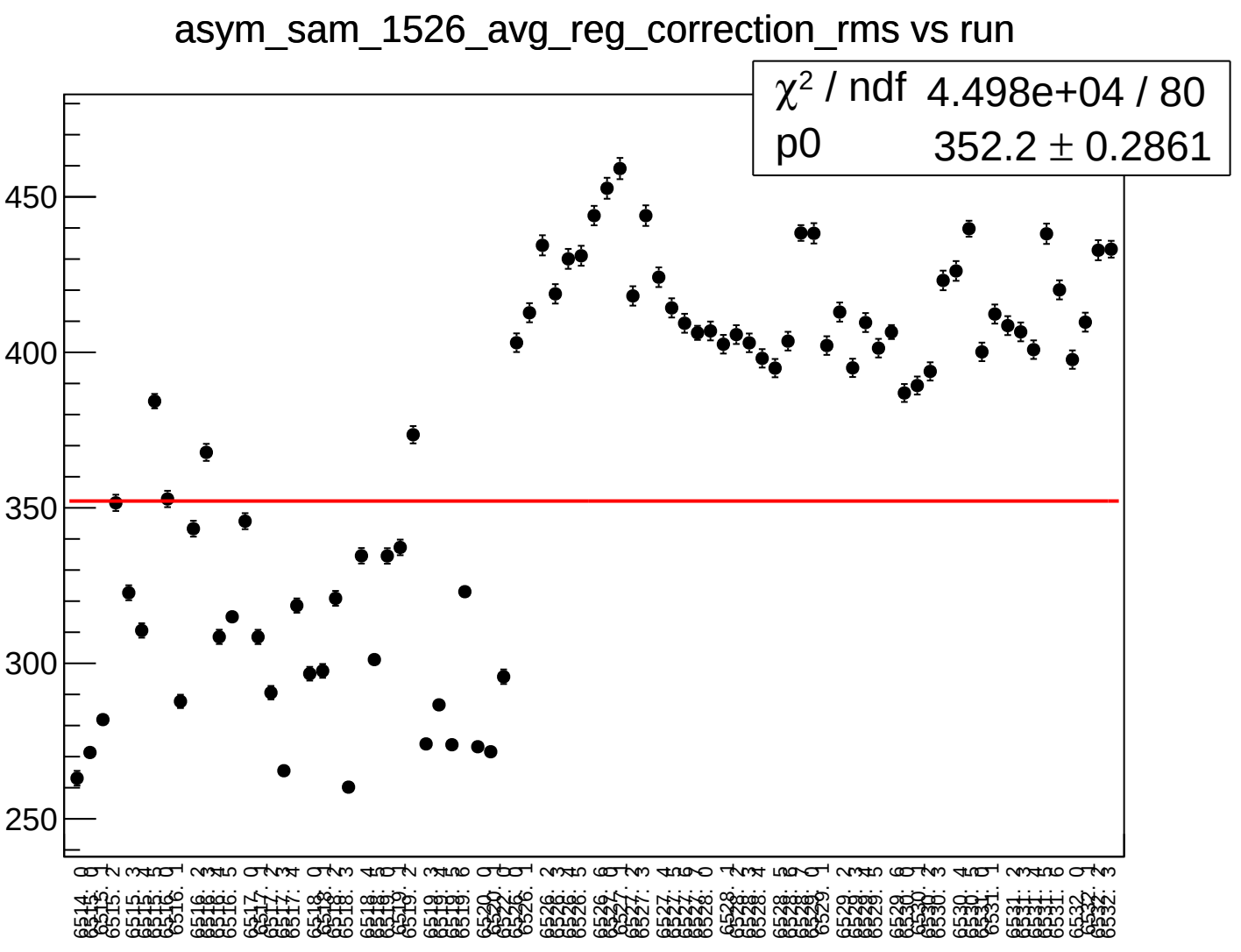

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 87.25 / 80
p0 126.8 ± 65.78
2000
1000
0
−1000
−2000
pull
Entries 81
Mean 221.7
Std Dev 0
2
1
0
−1
−2

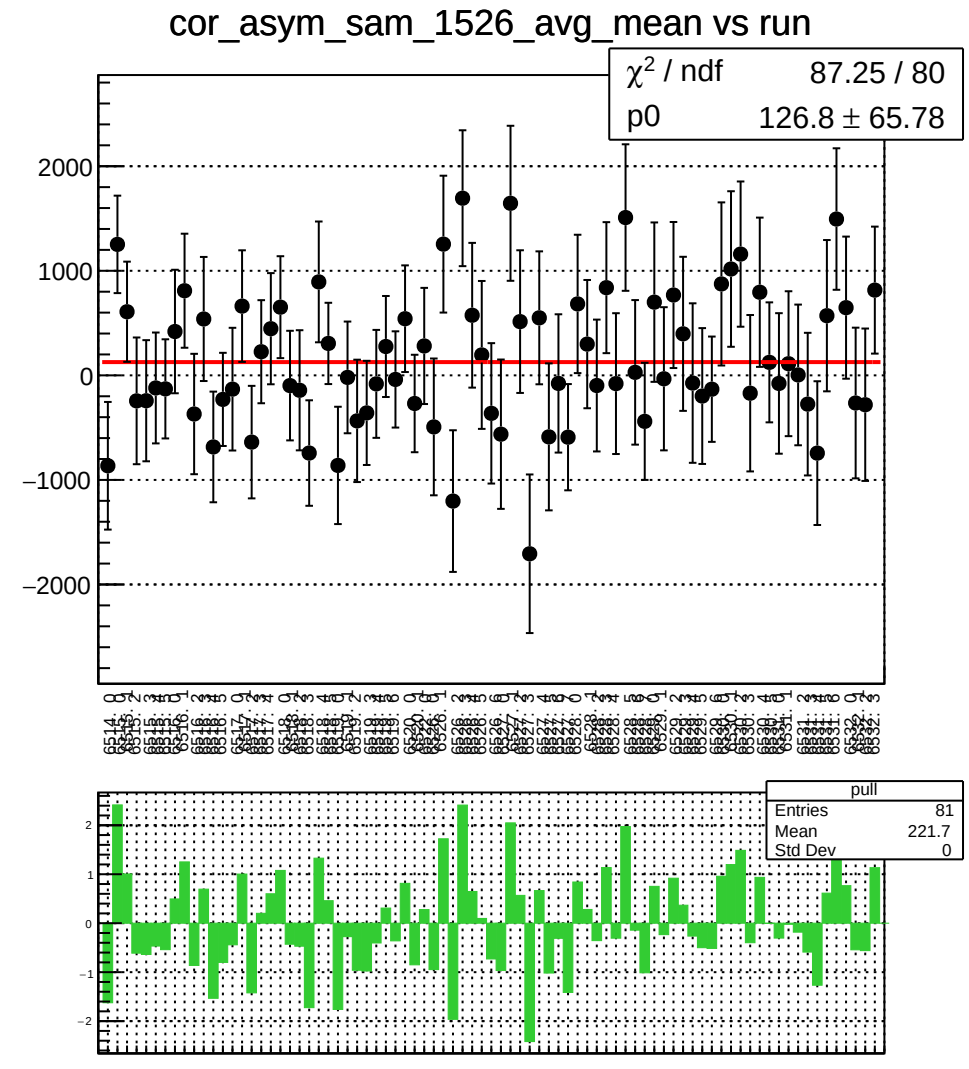

pull1D
Entries 81
Mean 0.01694
Std Dev 1.038
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

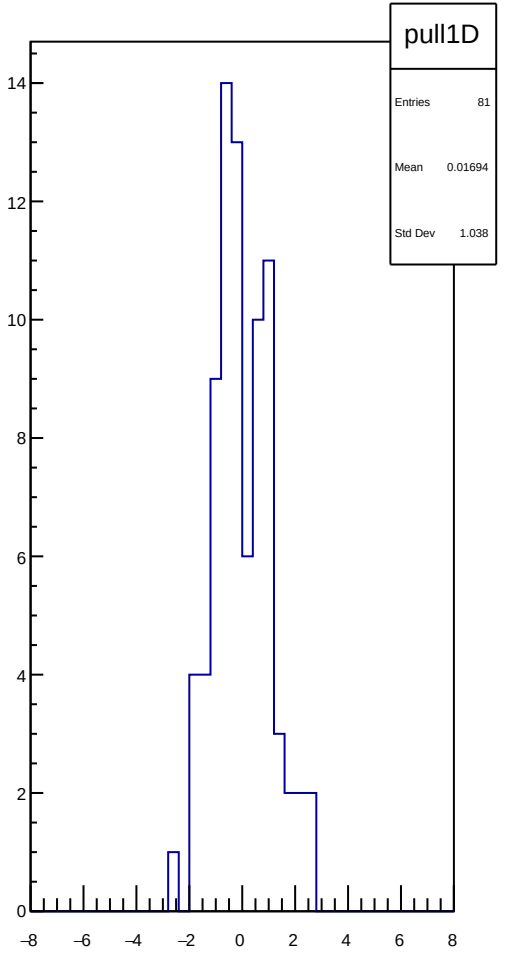

reg_asym_sam_1526_avg_rms vs run
χ² / ndf 3.126e+04 / 80
p0 57.52 ± 0.04651
75
70
65
60
55
50
45

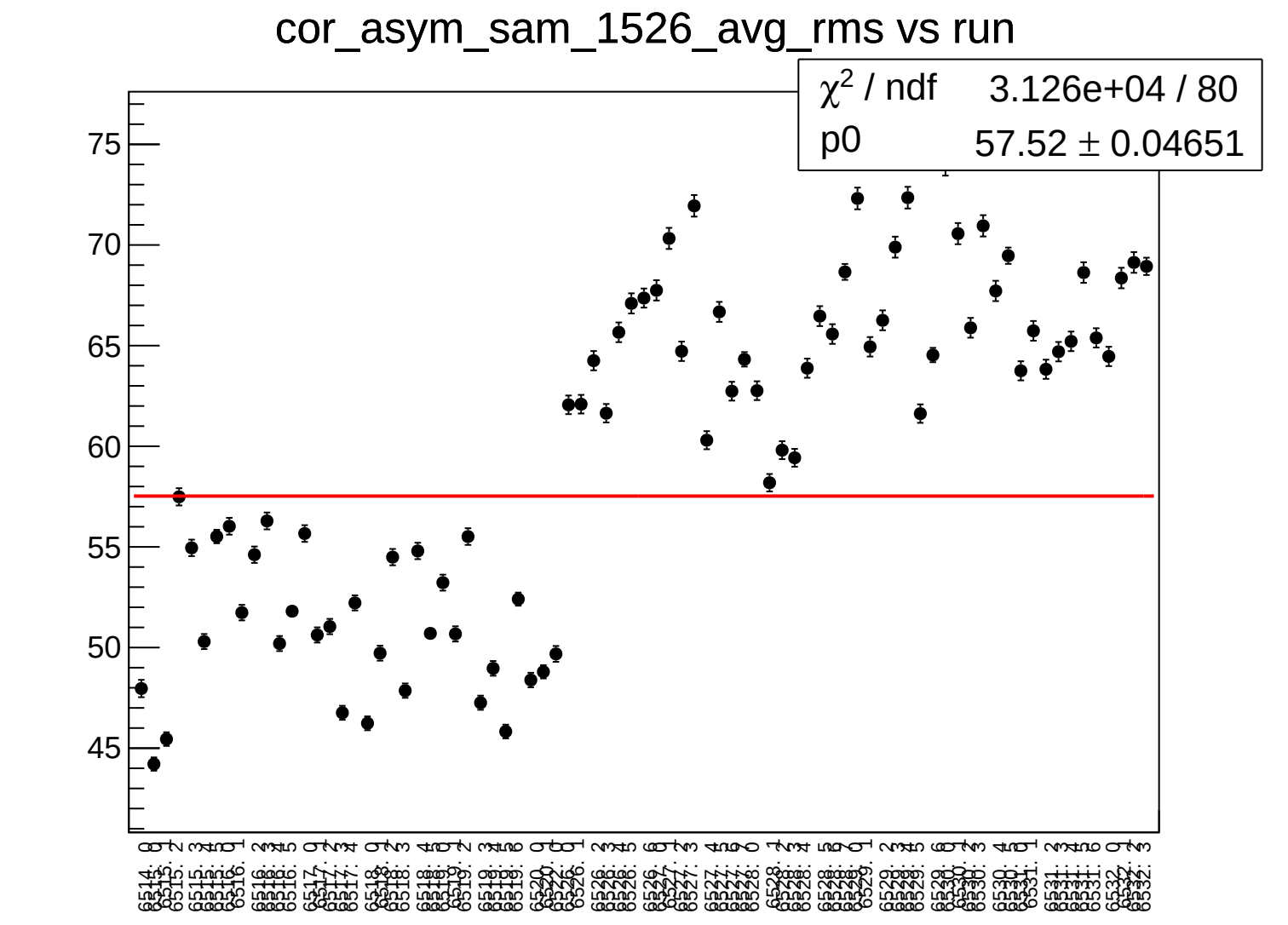

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 71.11 / 80
p0 27.54 ± 404.5
15000
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 586.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

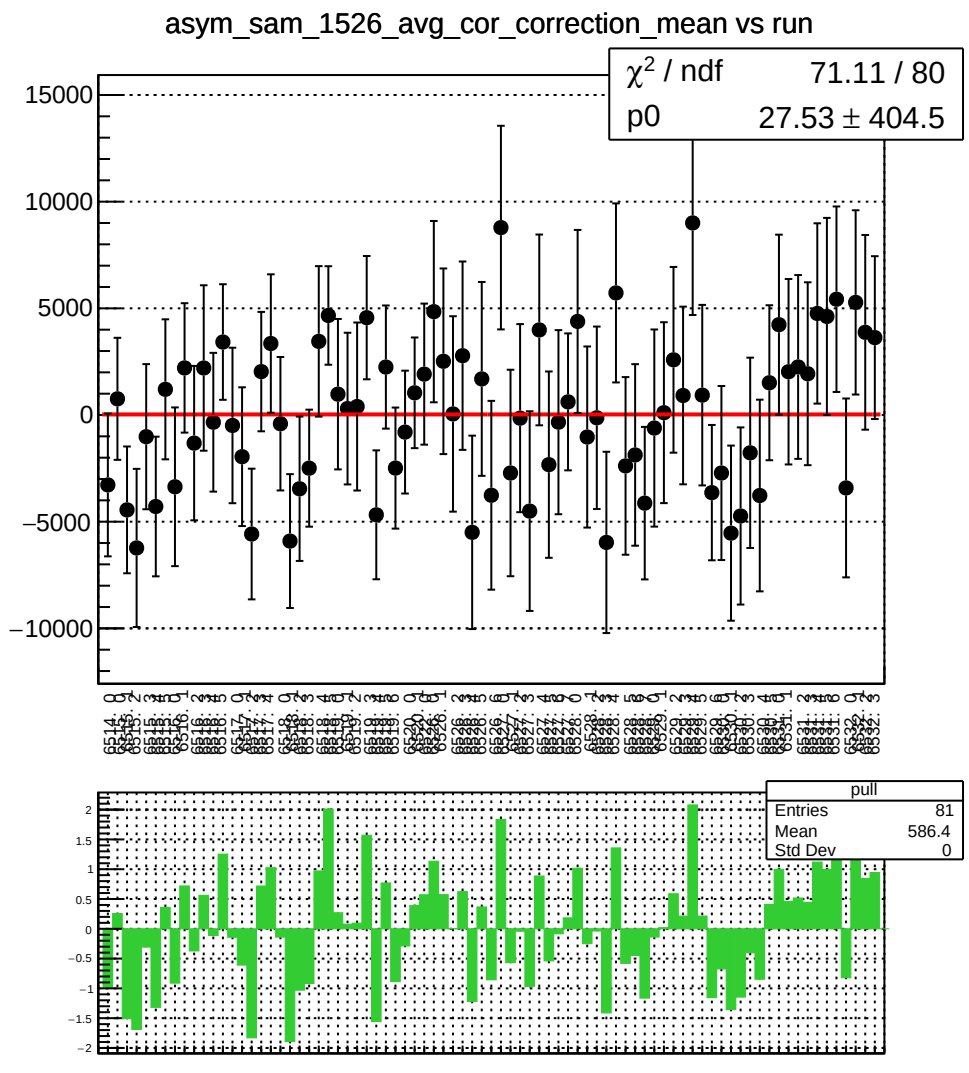

pull1D
Entries 81
Mean 0.0086
Std Dev 0.9369
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

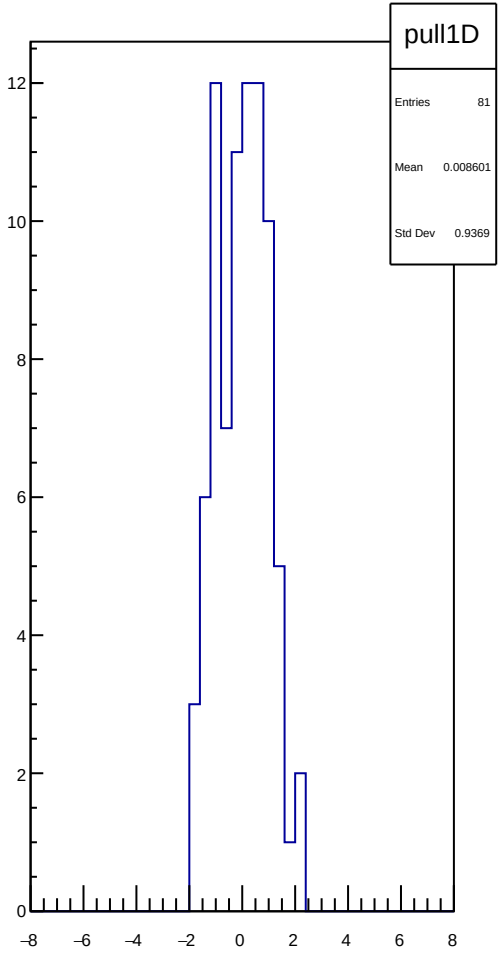

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 4.498e+04 / 80
p0 352.2 ± 0.2861
450
400
350
300
250

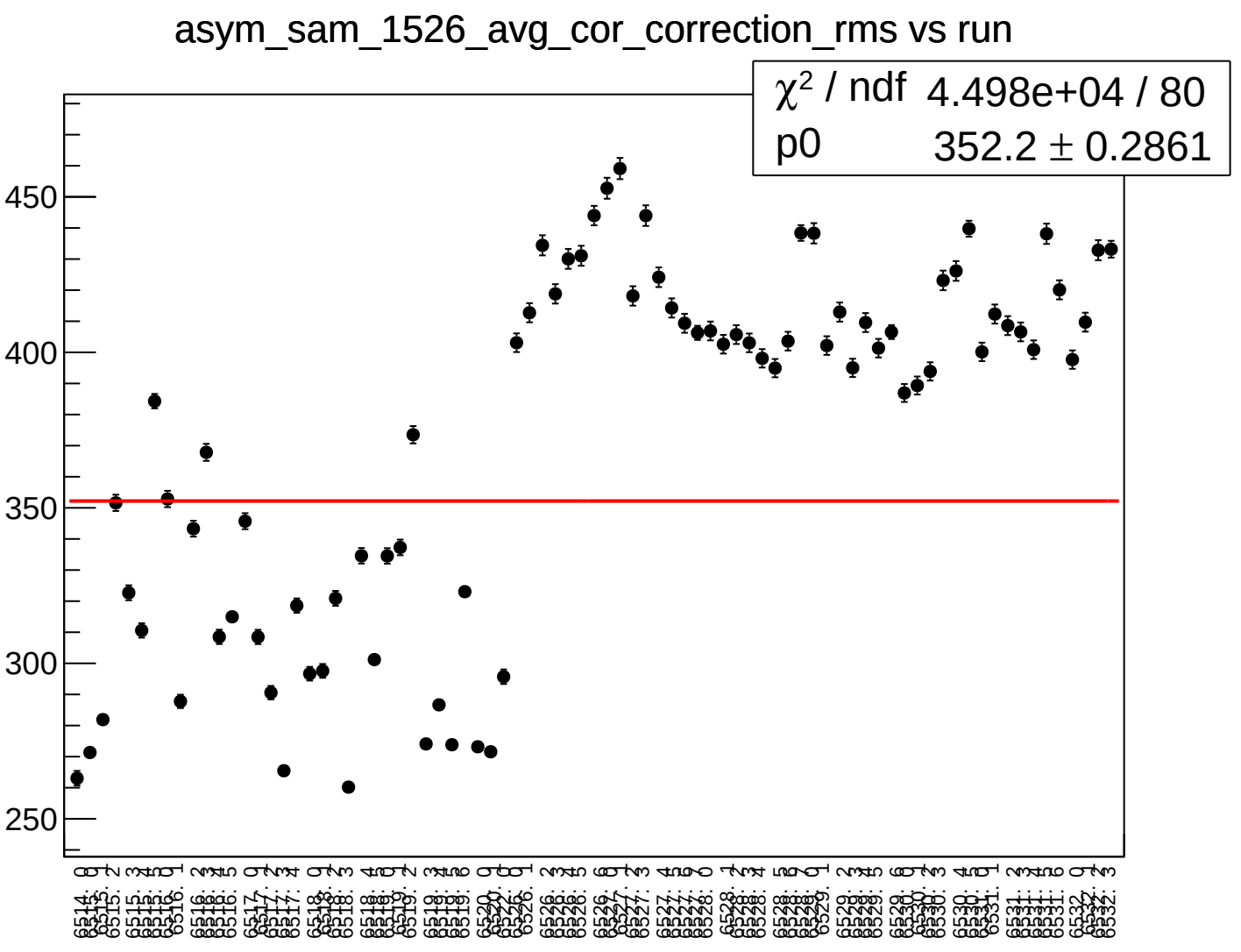

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 87.25 / 80
p0 126.8 ± 65.78
2000
1000
0
−1000
−2000
pull
Entries 81
Mean 221.7
Std Dev 0
2
1
0
−1
−2

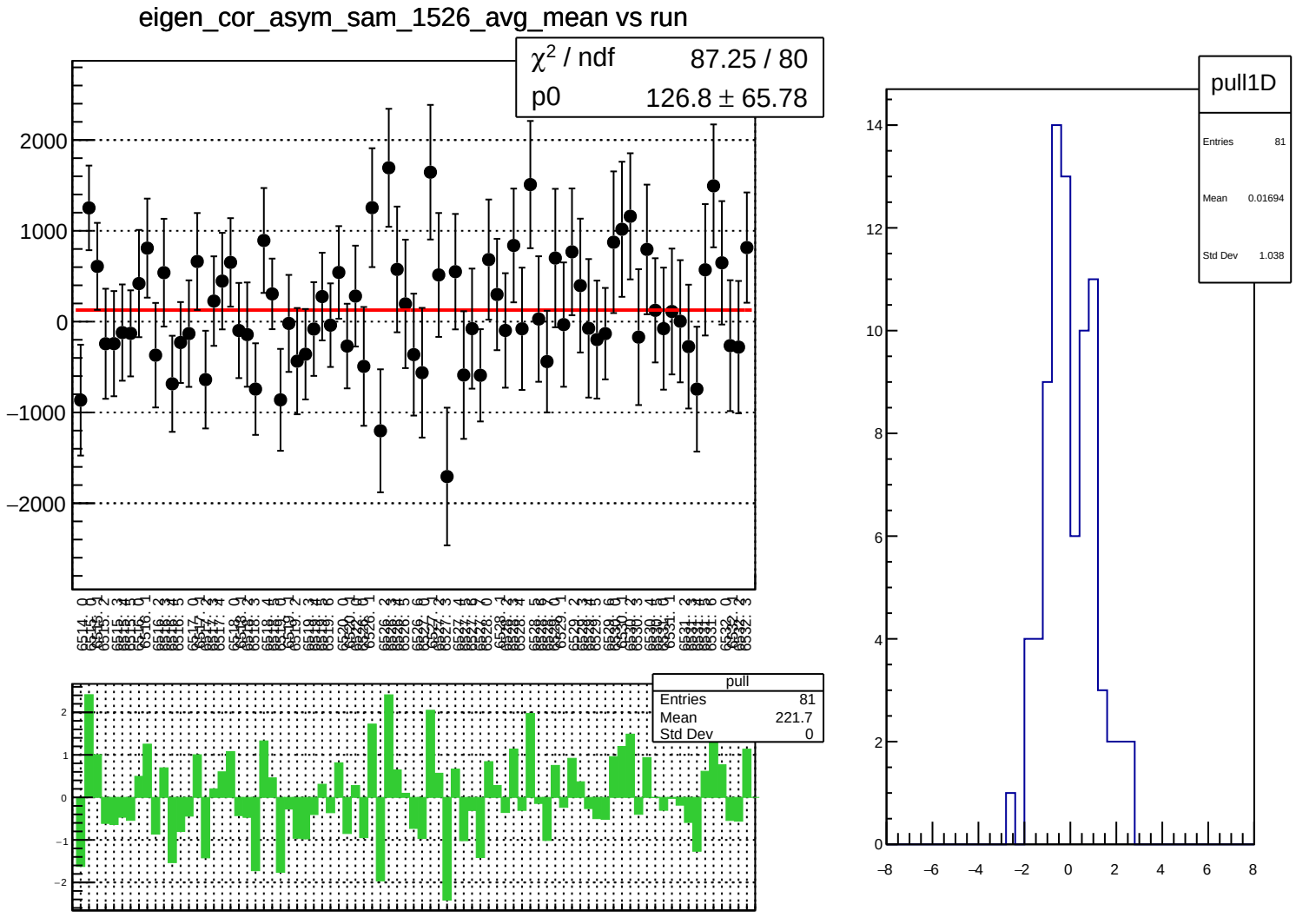

pull1D
Entries 81
Mean 0.01694
Std Dev 1.038
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

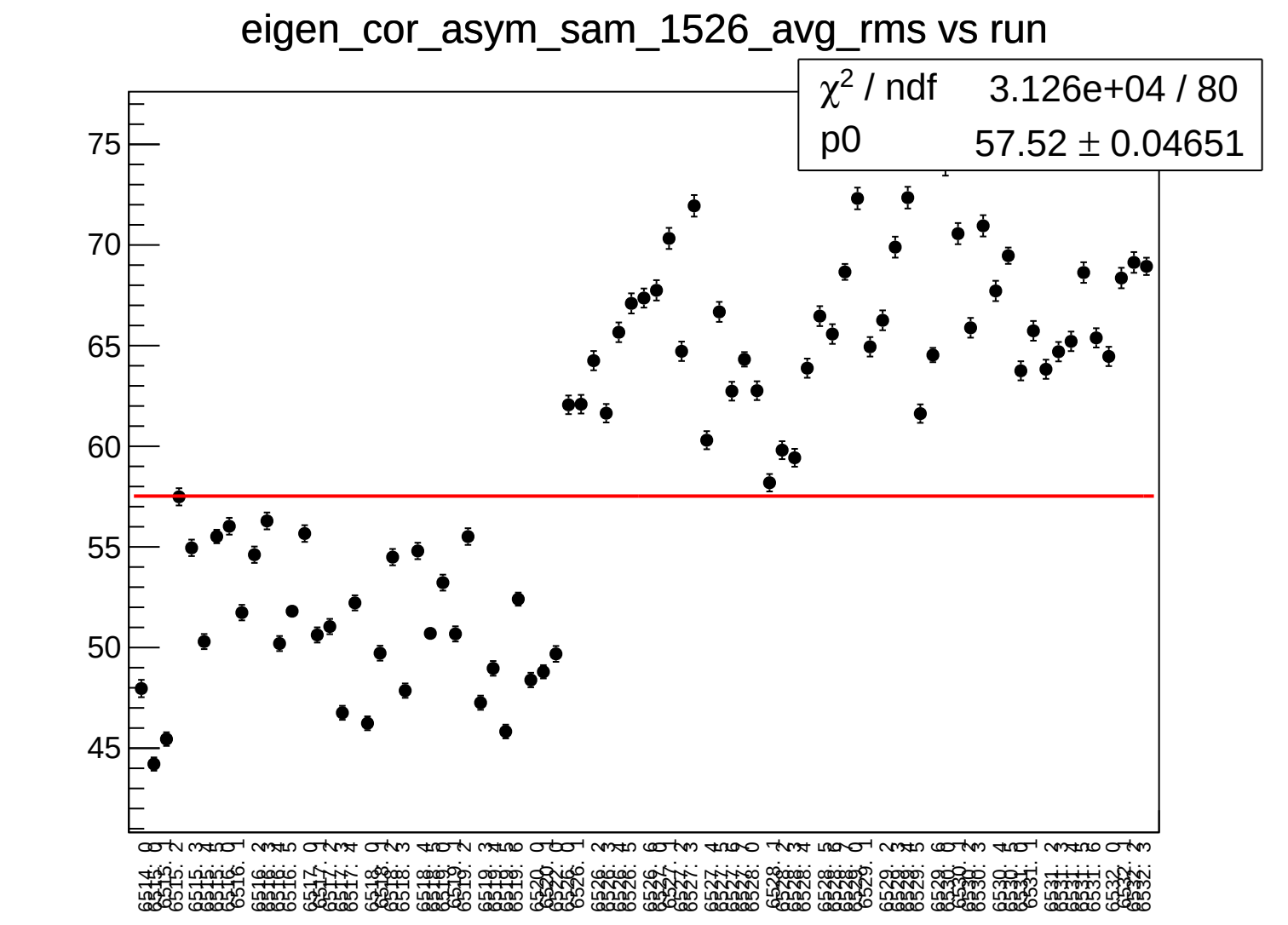

cor_asym_sam_1526_avg_rms vs run
χ^2 / ndf 3.126e+04 / 80
p0 57.52 ± 0.04651
75
70
65
60
55
50
45

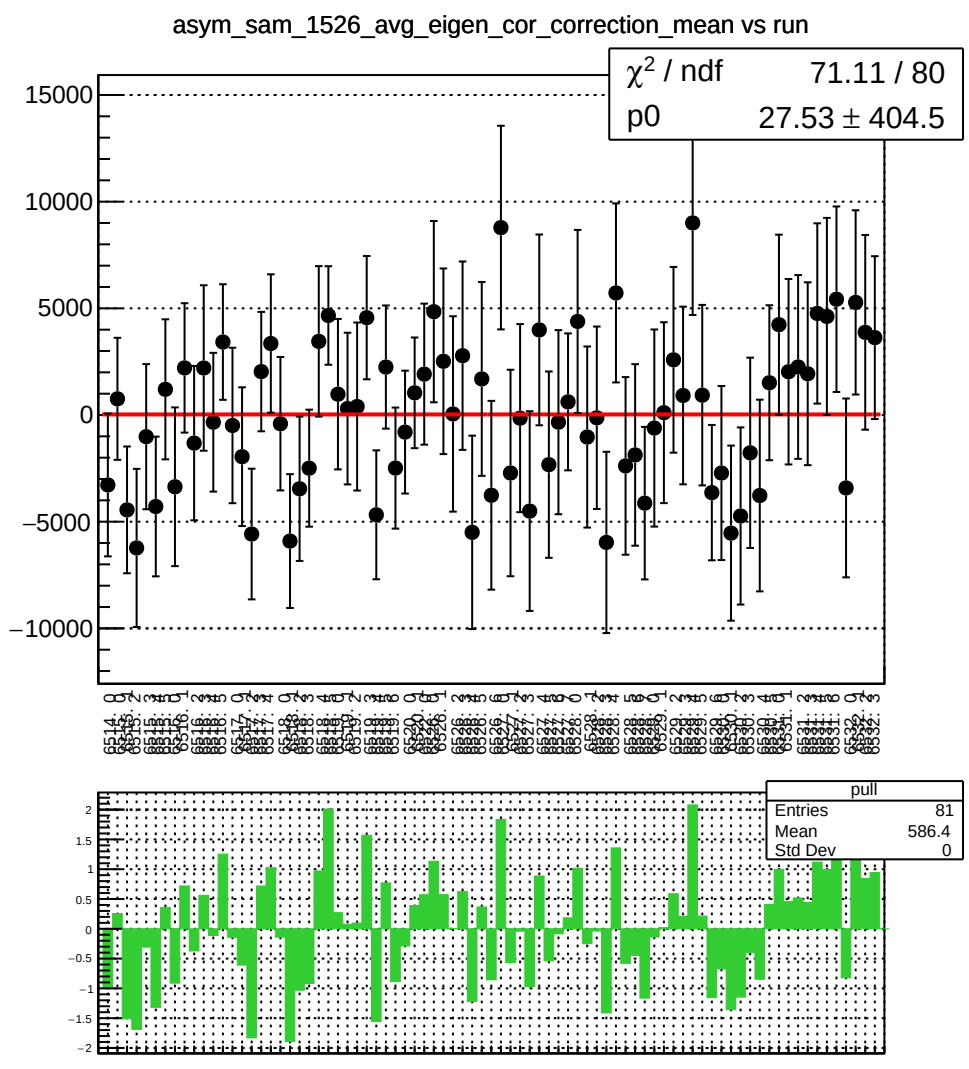

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 71.11 / 80
p0 27.53 ± 404.5
15000
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 586.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

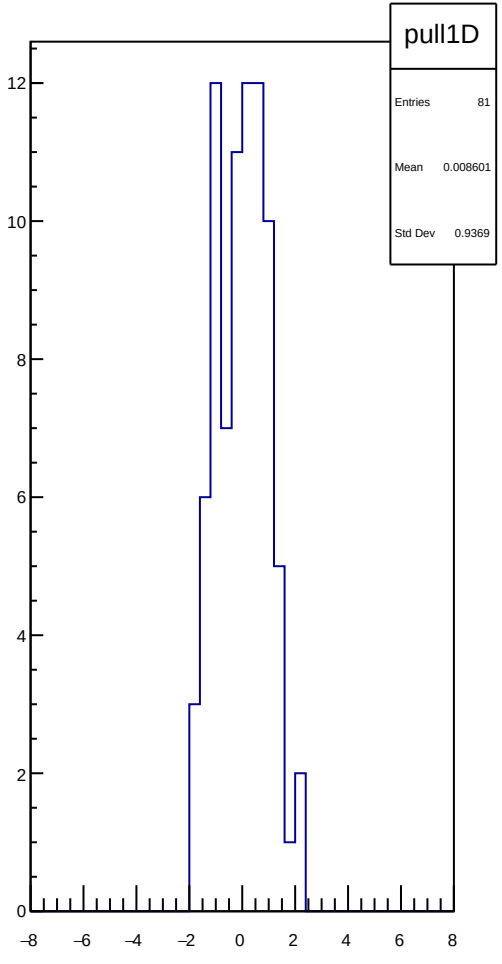

pull1D
Entries 81
Mean 0.008601
Std Dev 0.9369
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

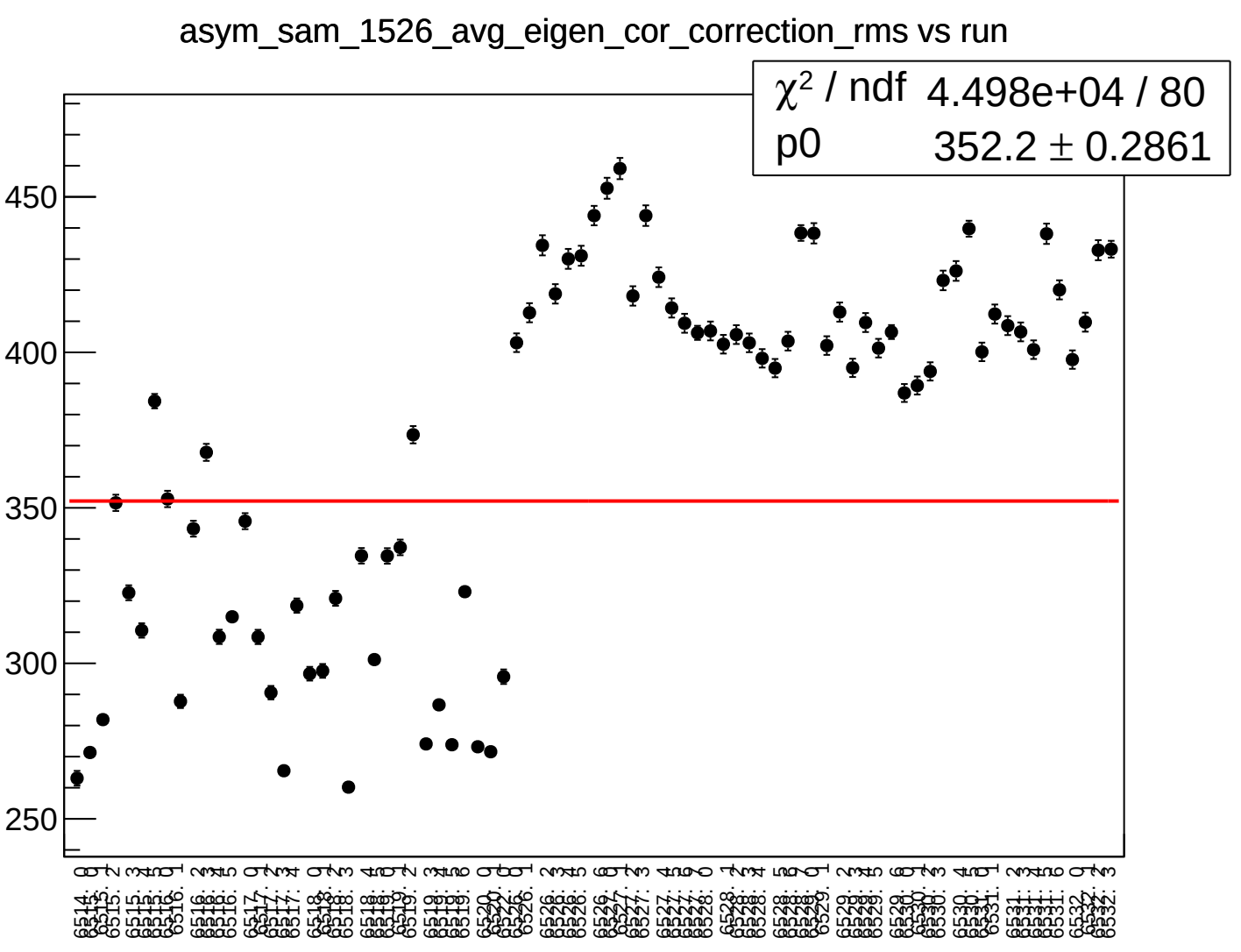

asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 4.498e+04 / 80
p0 352.2 ± 0.2861
450
400
350
300
250

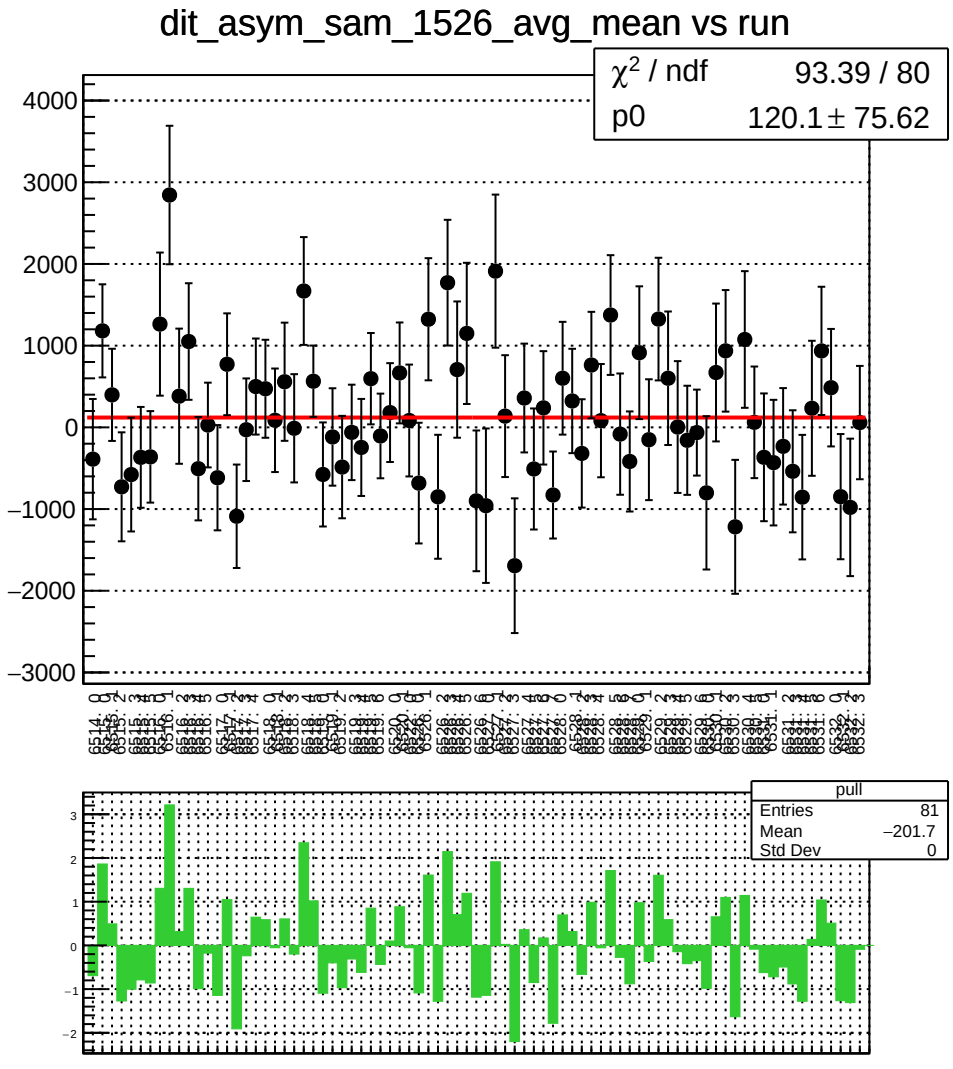

eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 87.25 / 80
p0 126.8 ± 65.78
2000
1000
0
−1000
−2000
pull
Entries 81
Mean 221.7
Std Dev 0
pull1D
Entries 81
Mean 0.01694
Std Dev 1.038
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

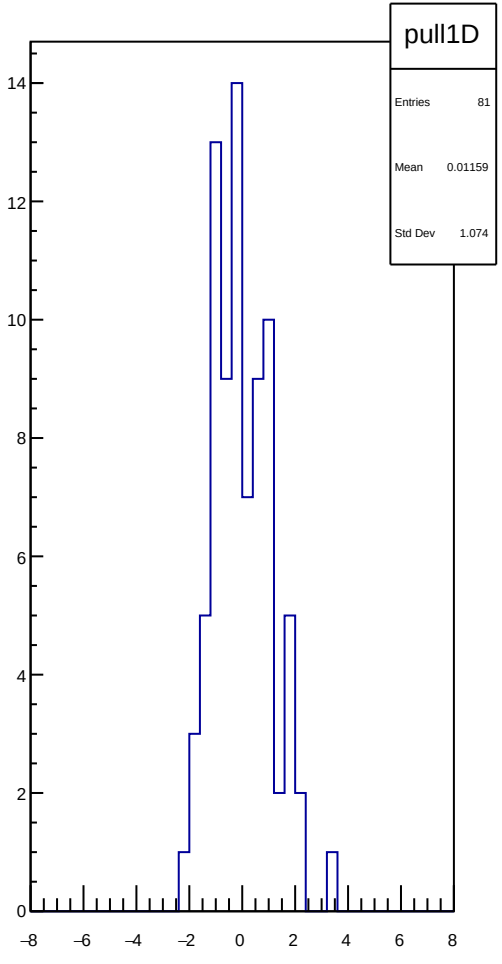

eigen_cor_asym_sam_1526_avg_rms vs run
χ² / ndf 3.126e+04 / 80
p0 57.52 ± 0.04651
75
70
65
60
55
50
45

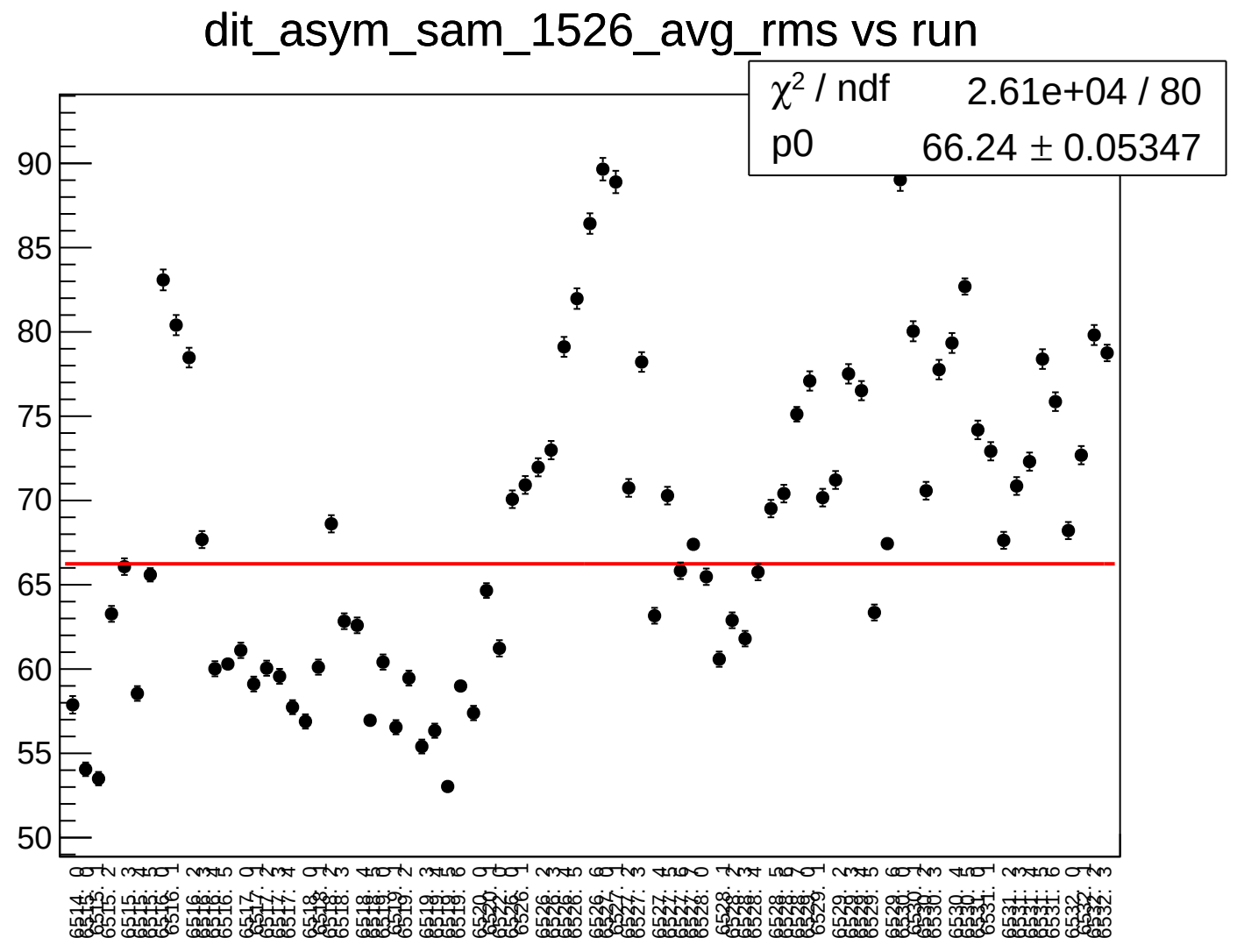

asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 71.11 / 80
p0 27.53 ± 404.5
15000
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 586.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

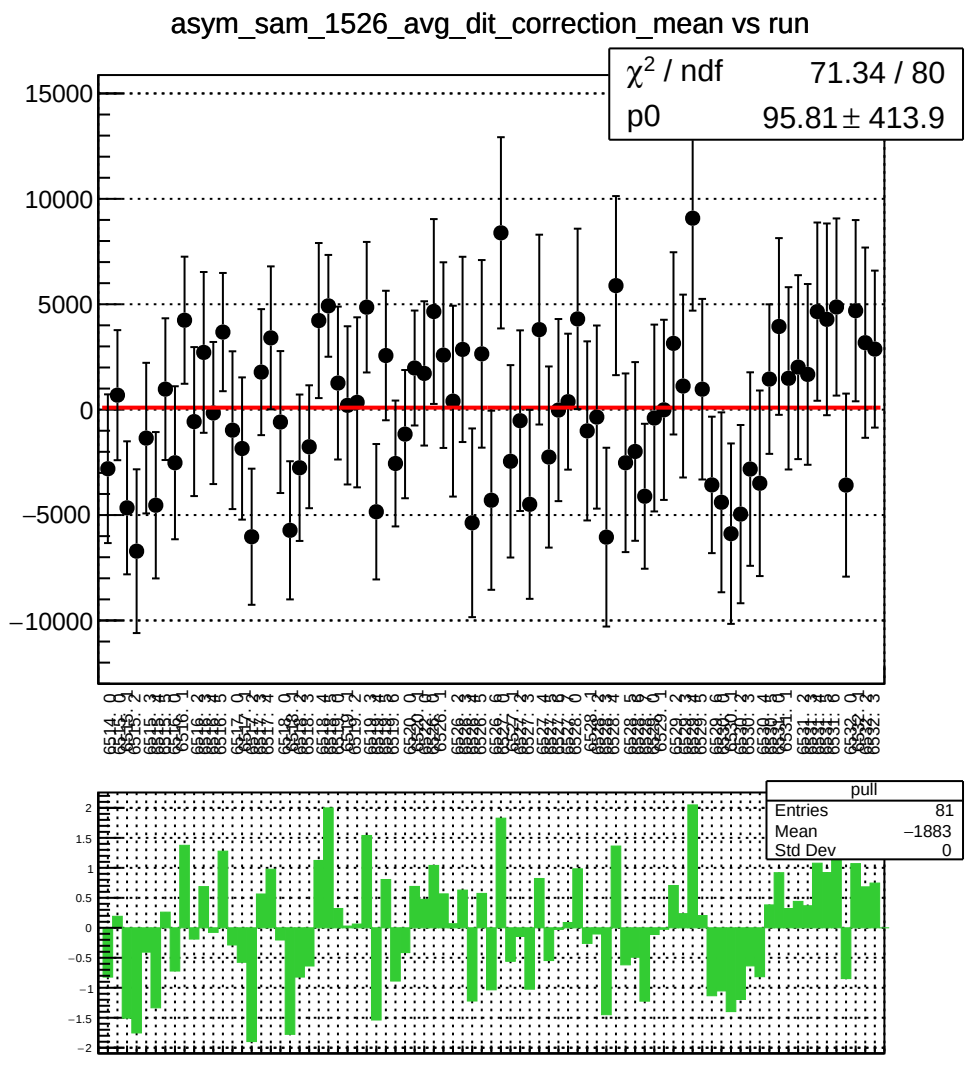

pull1D
Entries 81
Mean 0.008601
Std Dev 0.9369
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

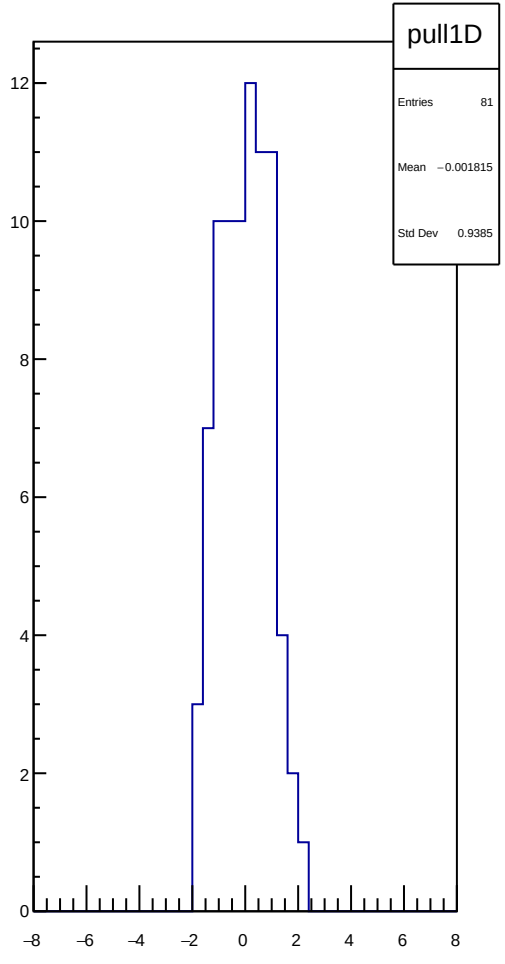

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 4.498e+04 / 80
p0 352.2 ± 0.2861
450
400
350
300
250

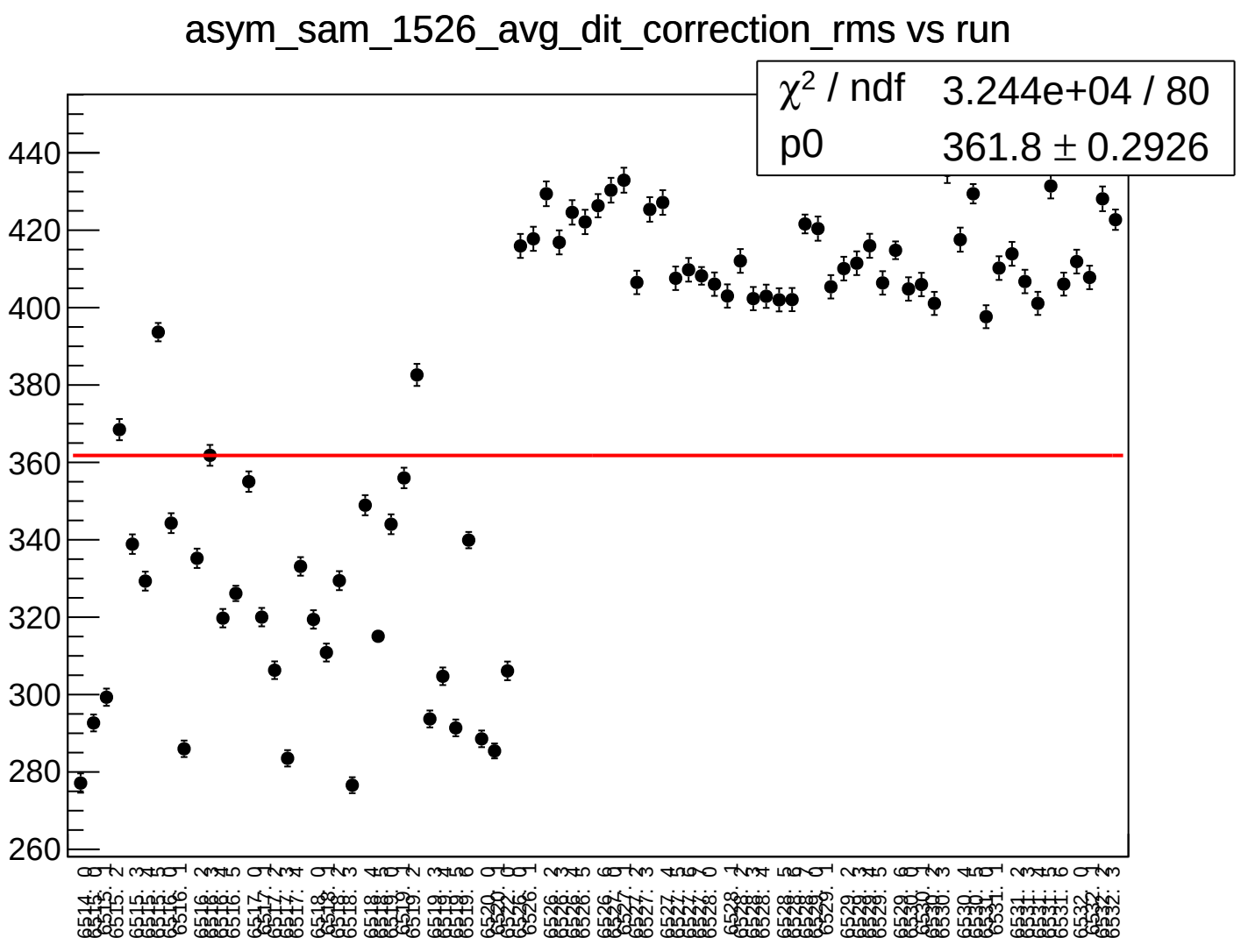

dit_asym_sam_1526_avg_mean vs run
χ^2 / ndf 93.39 / 80
p0 120.1 ± 75.62
pull
Entries 81
Mean −201.7
Std Dev 0

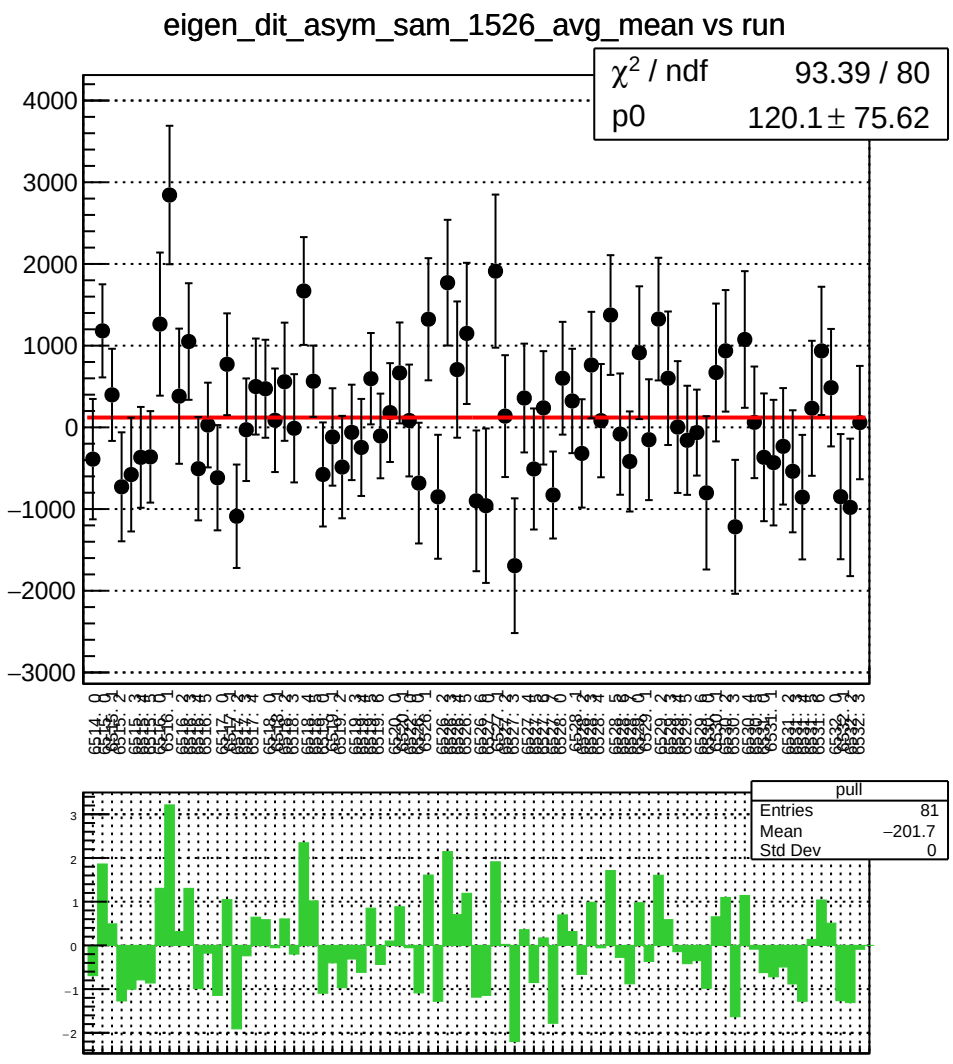

pull1D
Entries 81
Mean 0.01159
Std Dev 1.074

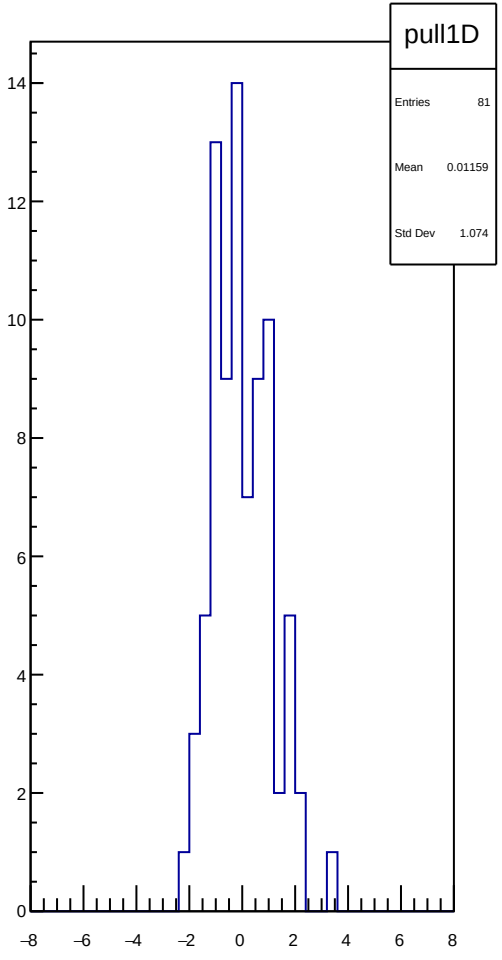

dit_asym_sam_1526_avg_rms vs run
χ² / ndf 2.61e+04 / 80
p0 66.24 ± 0.05347
90
85
80
75
70
65
60
55
50

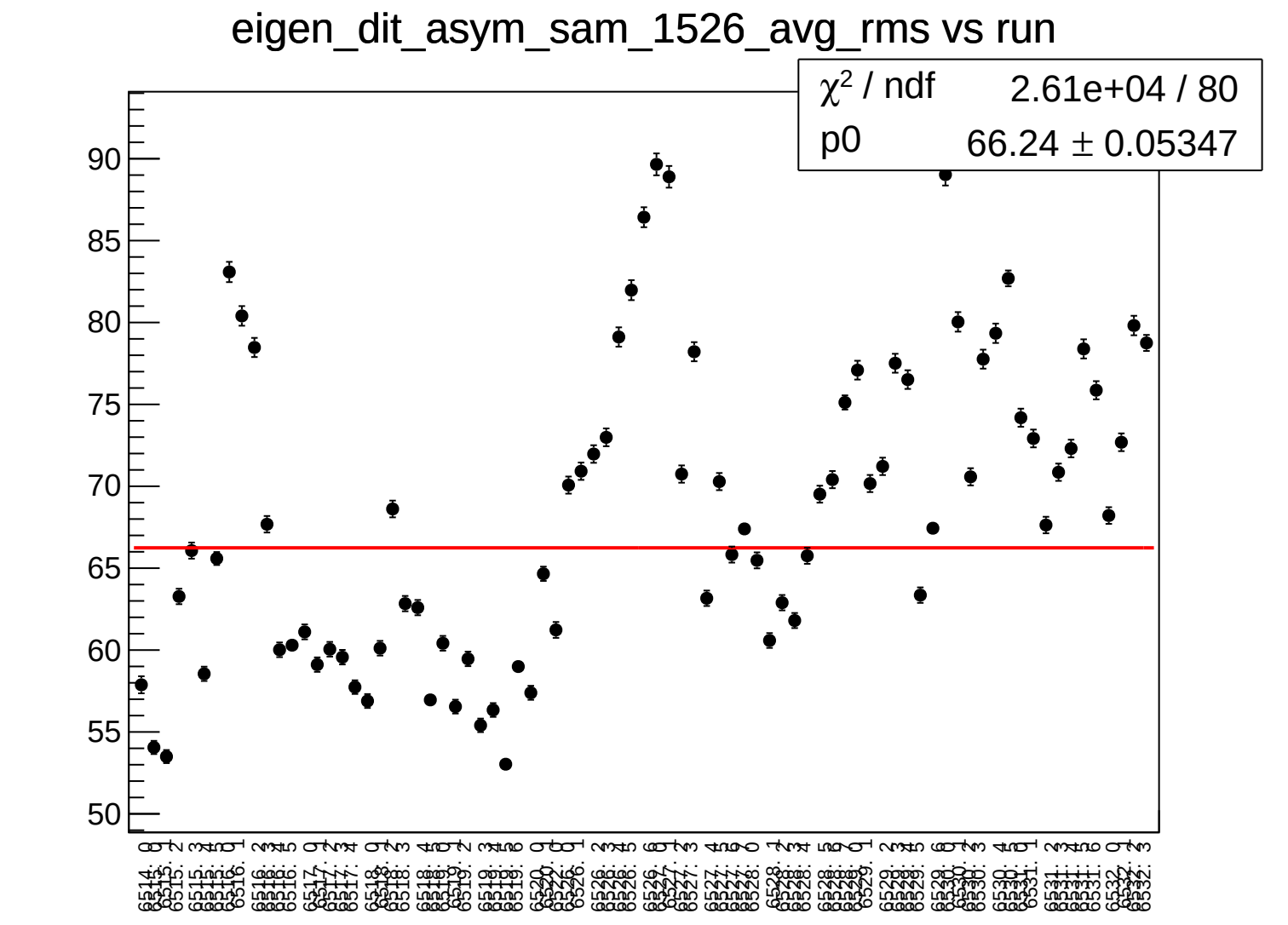

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 71.34 / 80
p0 95.81 ± 413.9
15000
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −1883
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

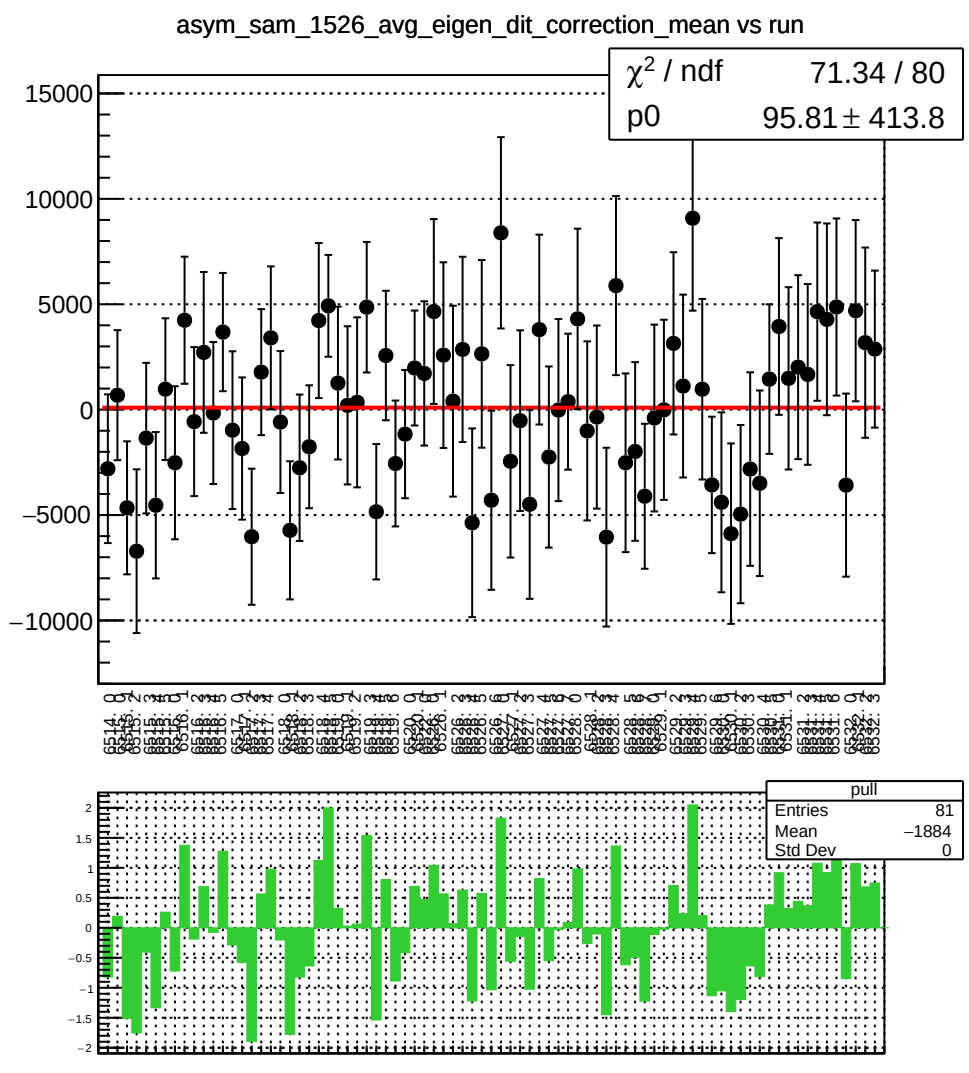

pull1D
Entries 81
Mean −0.001815
Std Dev 0.9385
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

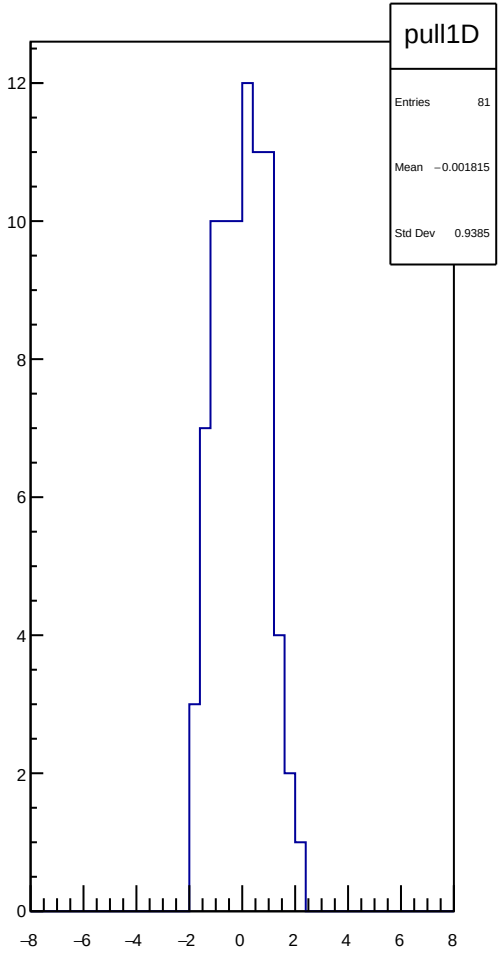

asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 3.244e+04 / 80
p0 361.8 ± 0.2926
440
420
400
380
360
340
320
300
280
260

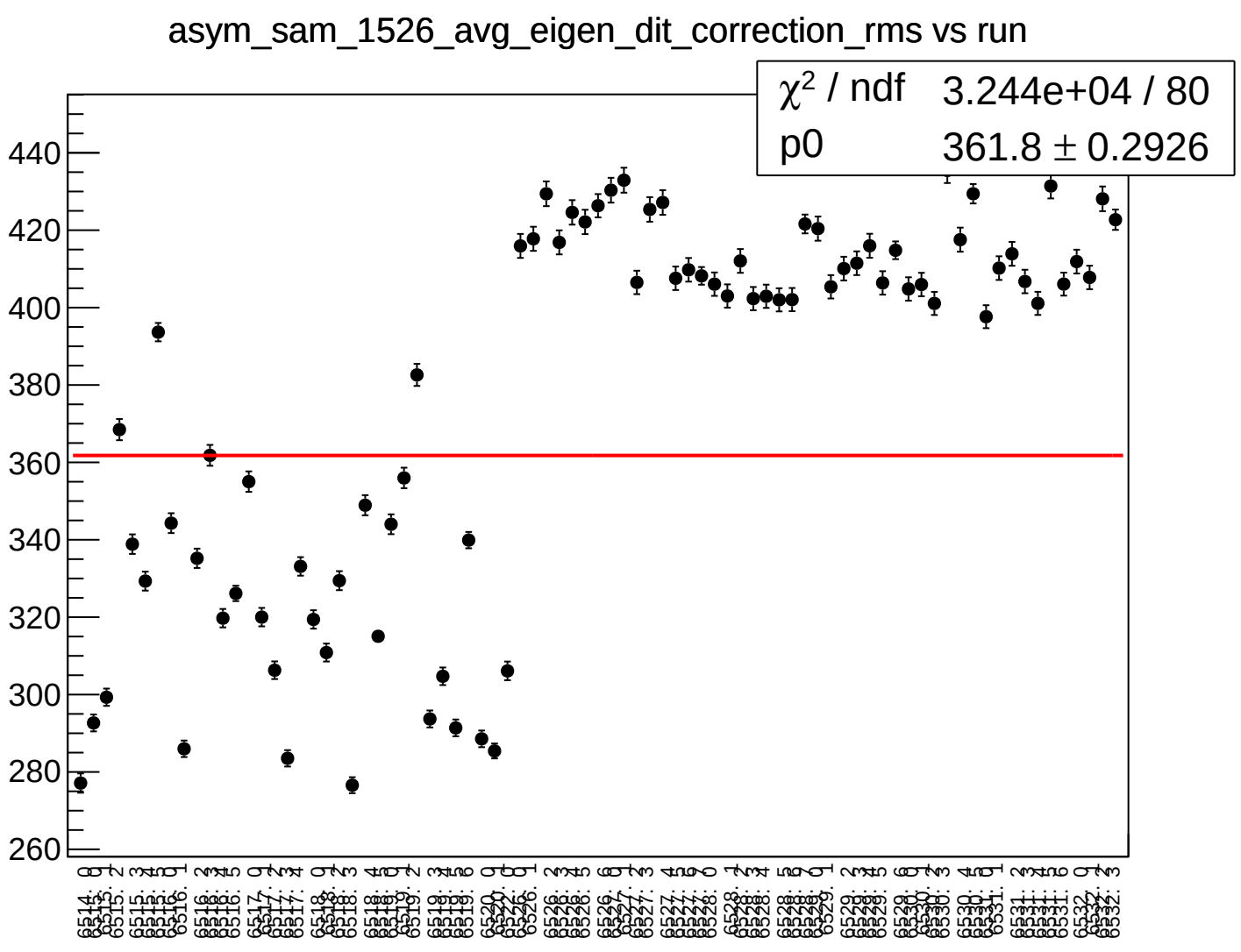

eigen_dit_asym_sam_1526_avg_mean vs run
χ² / ndf 93.39 / 80
p0 120.1 ± 75.62
pull
Entries 81
Mean −201.7
Std Dev 0

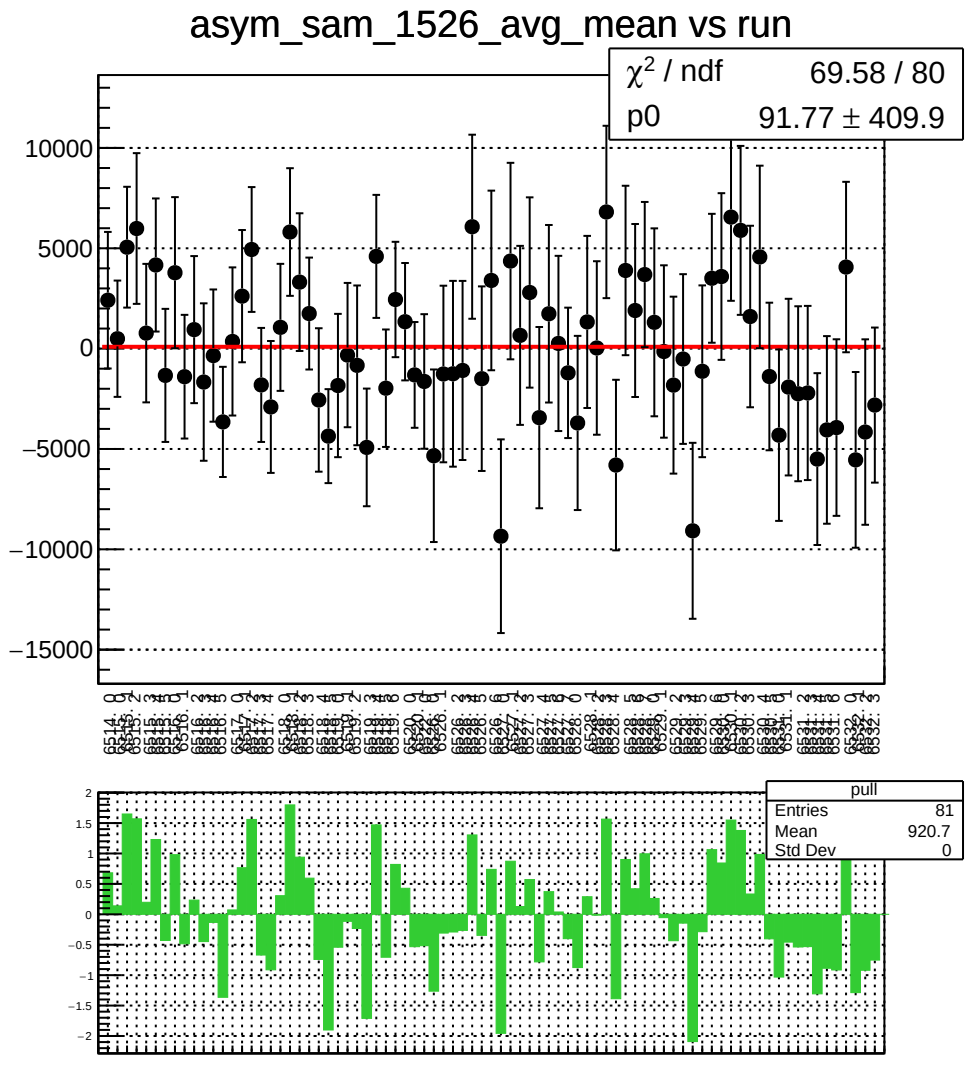

pull1D
Entries 81
Mean 0.01159
Std Dev 1.074

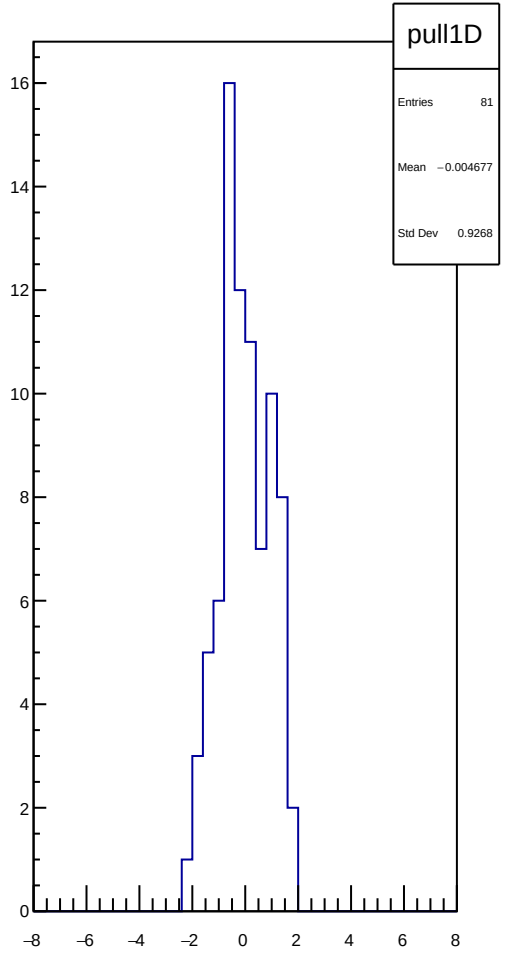

eigen_dit_asym_sam_1526_avg_rms vs run
χ² / ndf 2.61e+04 / 80
p0 66.24 ± 0.05347
90
85
80
75
70
65
60
55
50

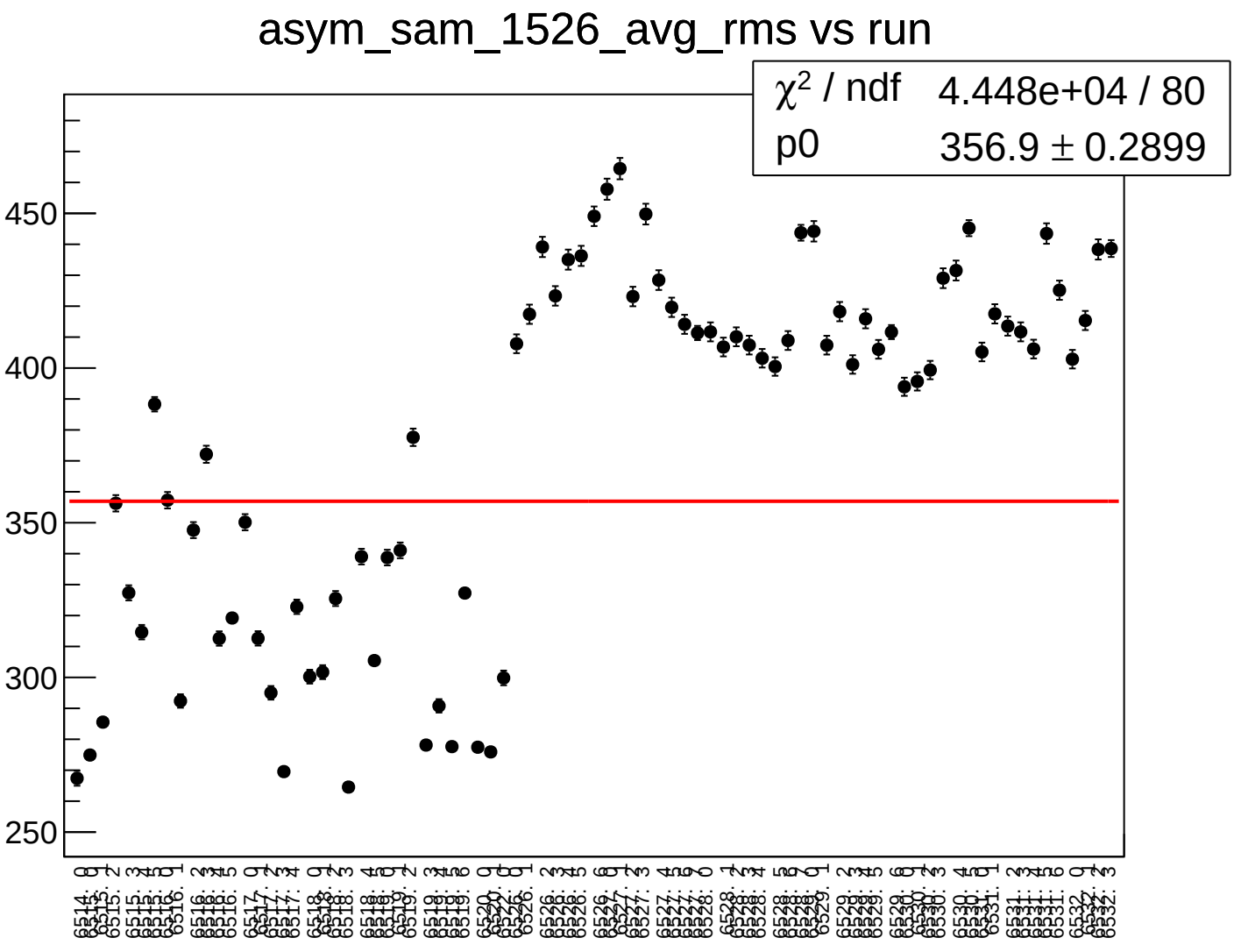

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 71.34 / 80
p0 95.81 ± 413.8
15000
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −1884
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

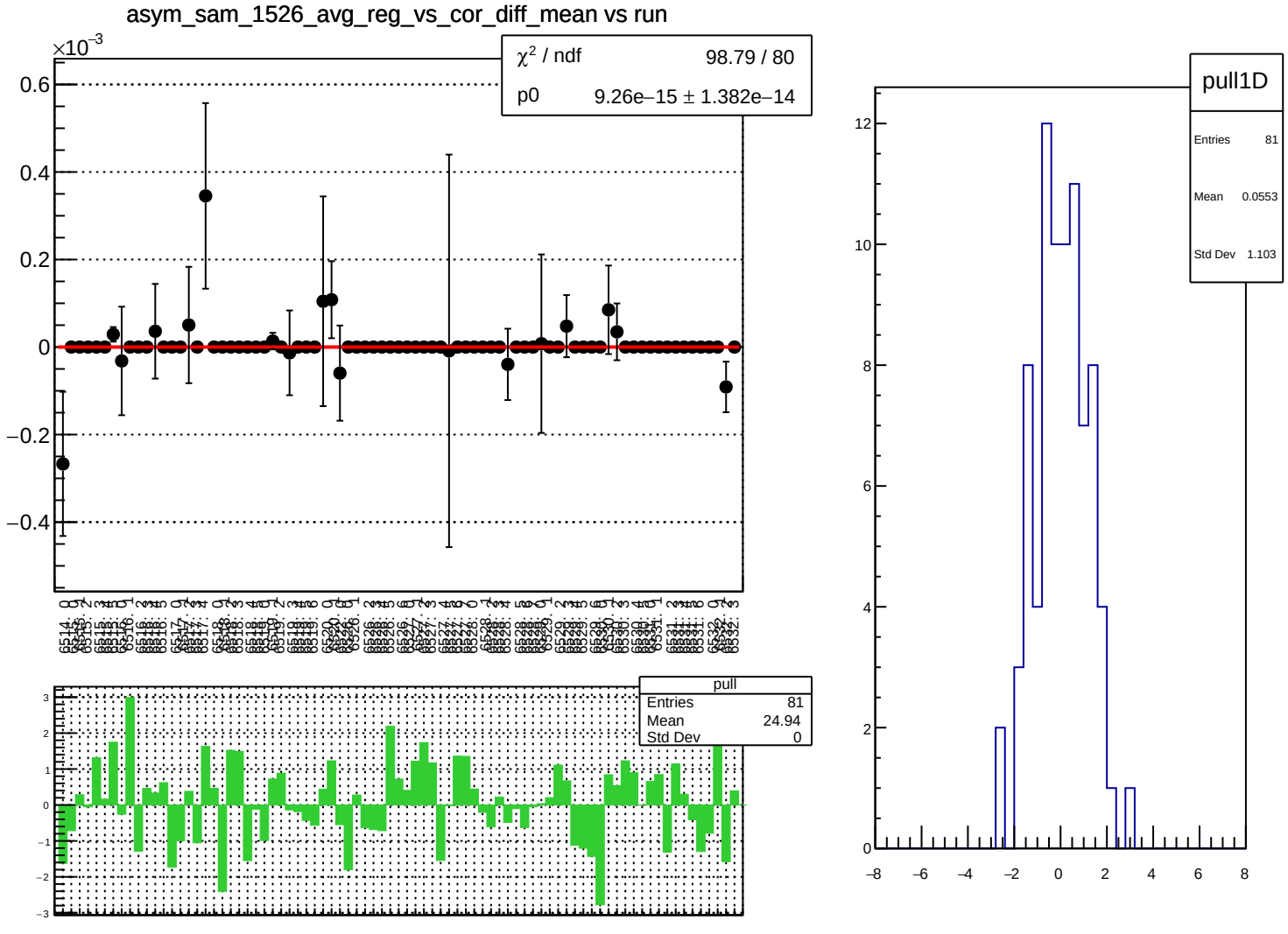

pull1D
Entries 81
Mean −0.001815
Std Dev 0.9385
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

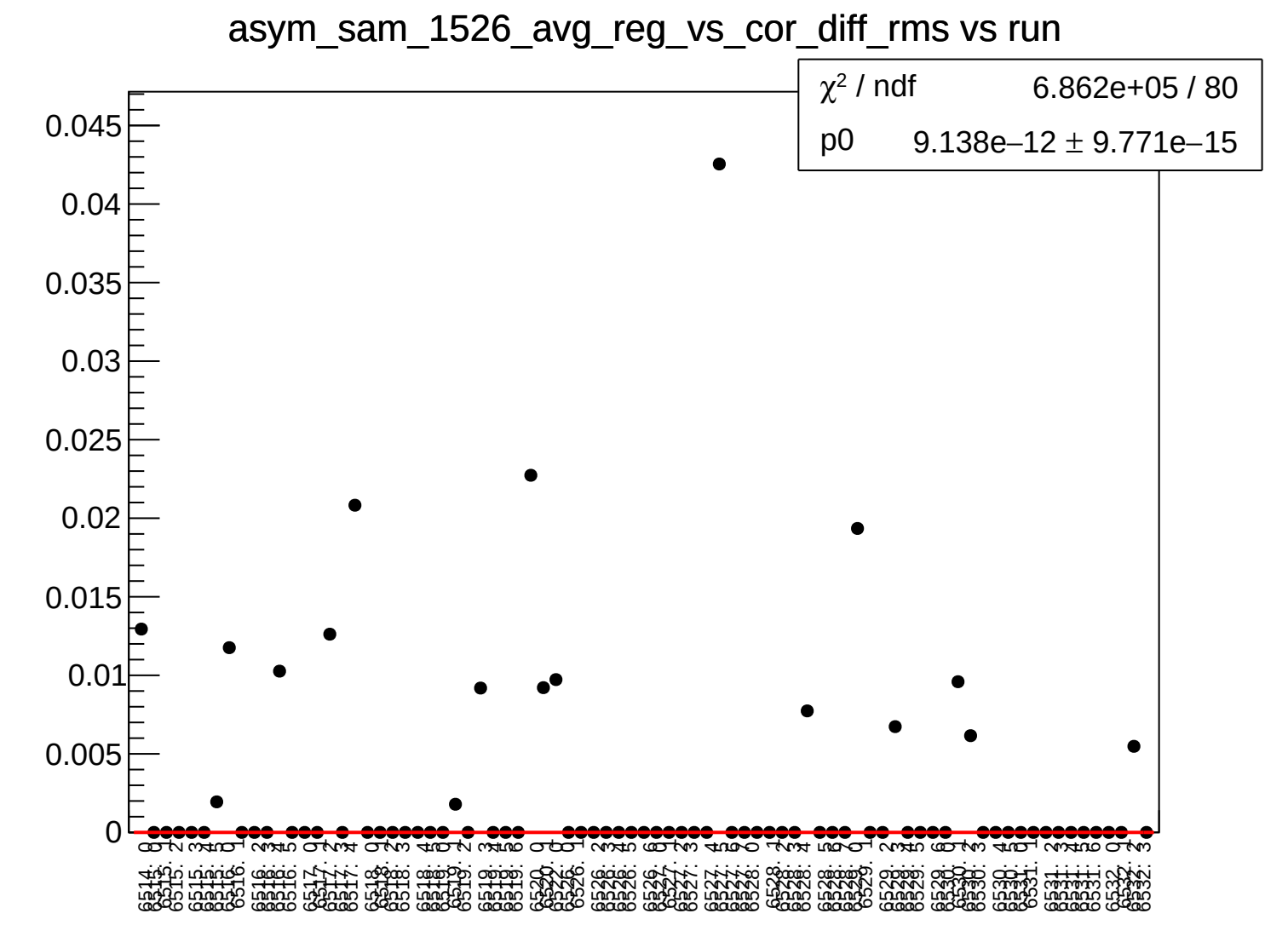

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.244e+04 / 80
p0 361.8 ± 0.2926
440
420
400
380
360
340
320
300
280
260

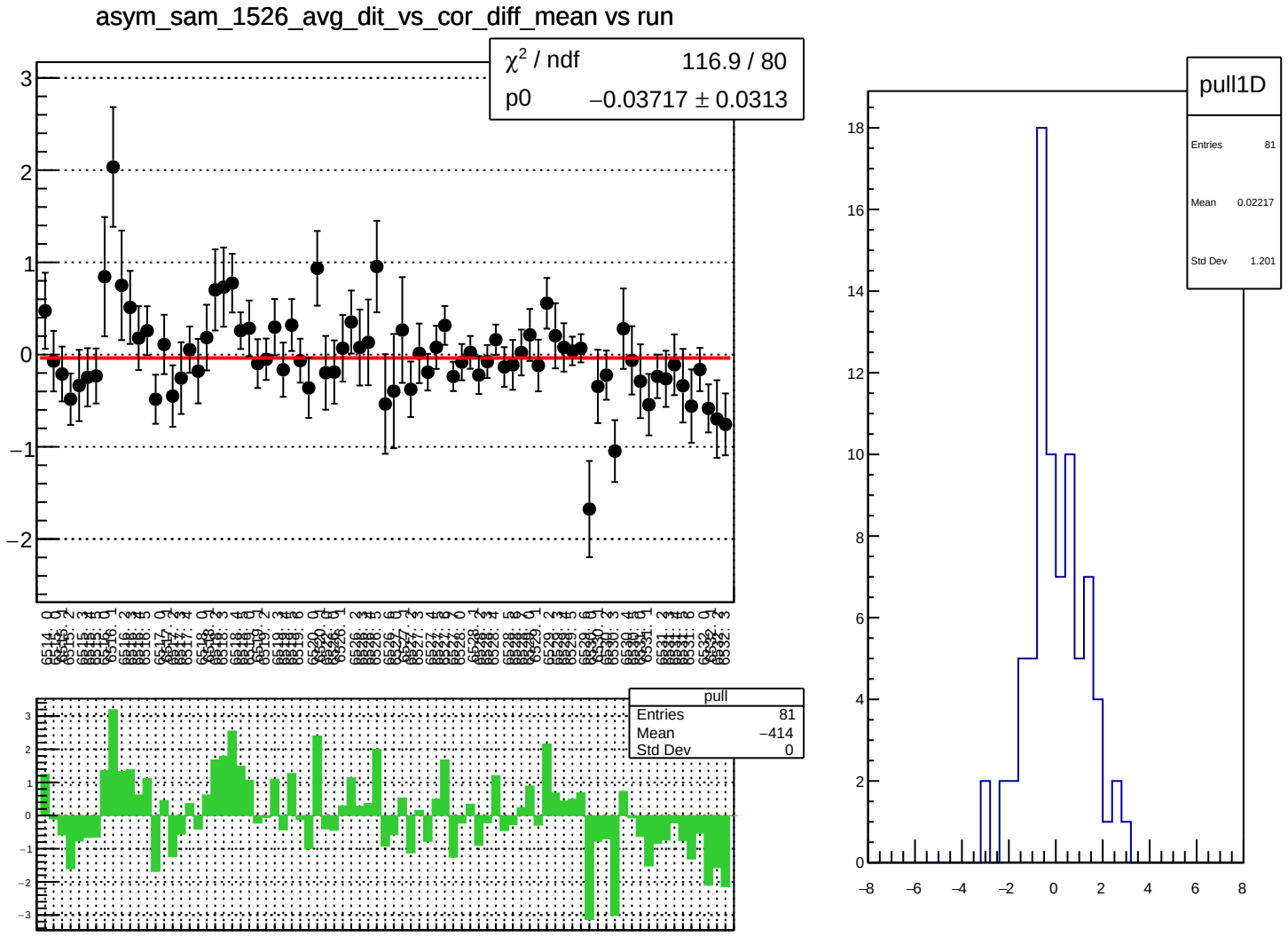

asym_sam_1526_avg_mean vs run
χ^2 / ndf 69.58 / 80
p0 91.77 ± 409.9
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean 920.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

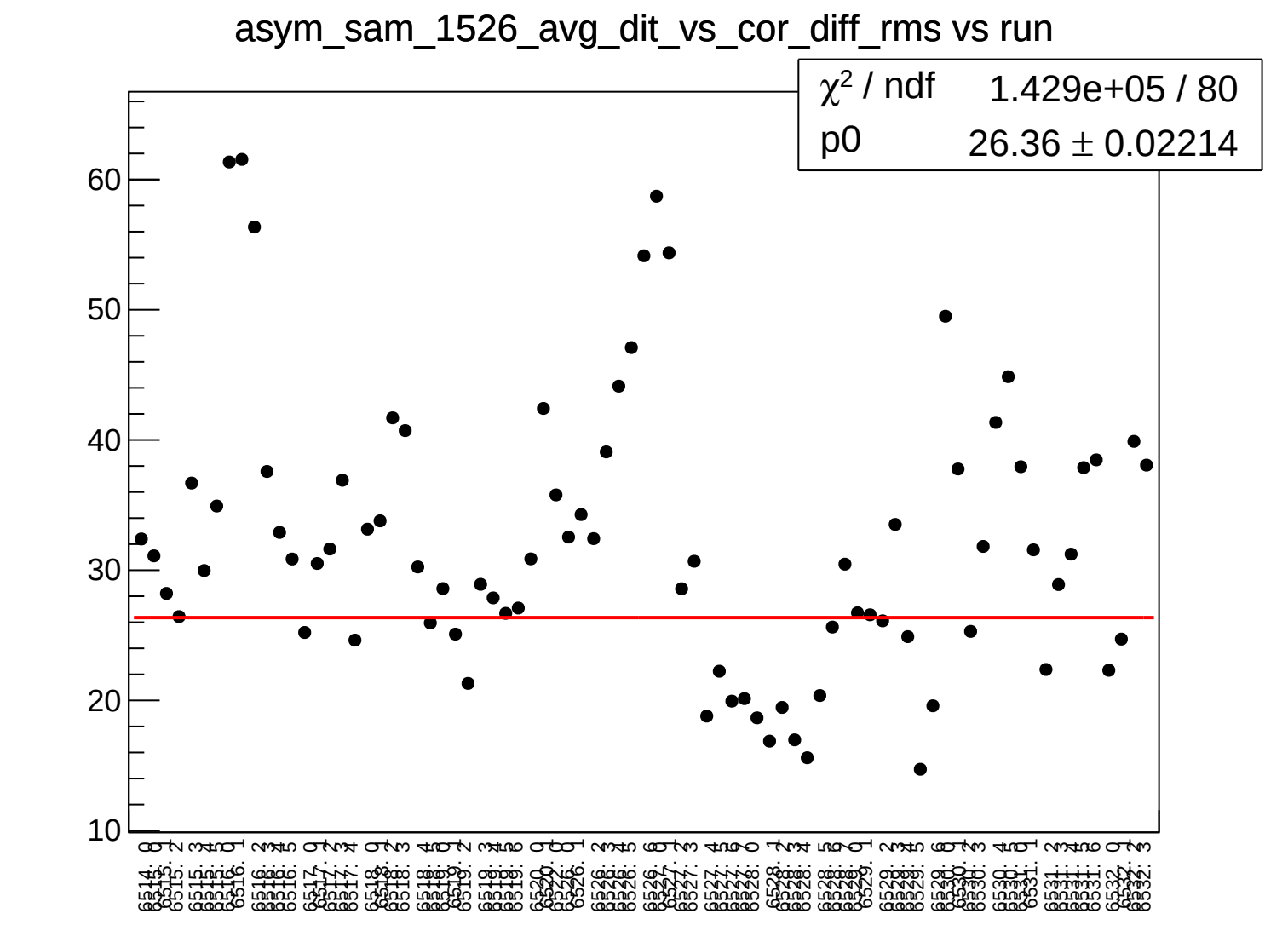

pull1D
Entries 81
Mean −0.004677
Std Dev 0.9268
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

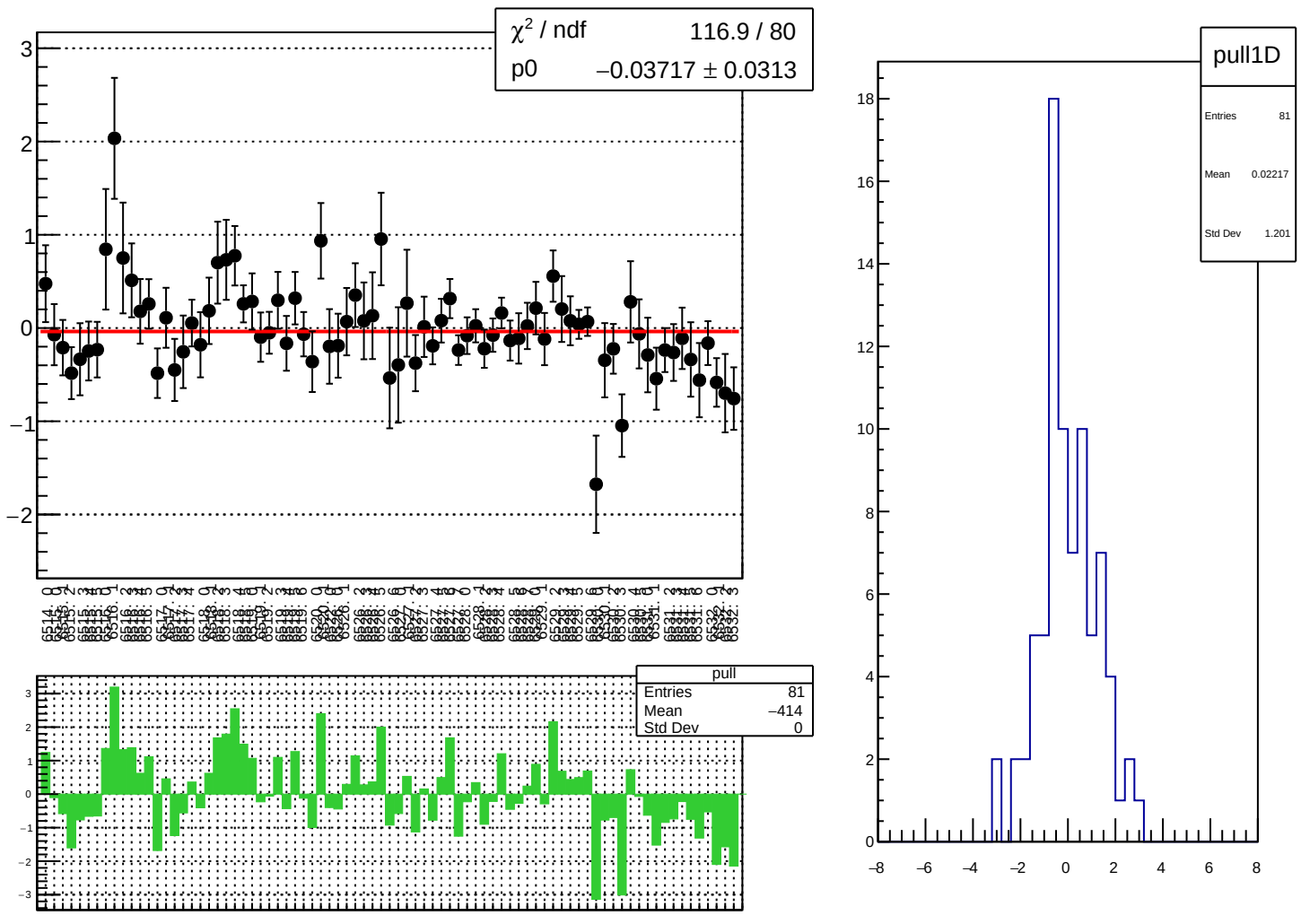

asym_sam_1526_avg_rms vs run
χ² / ndf 4.448e+04 / 80
p0 356.9 ± 0.2899
450
400
350
300
250

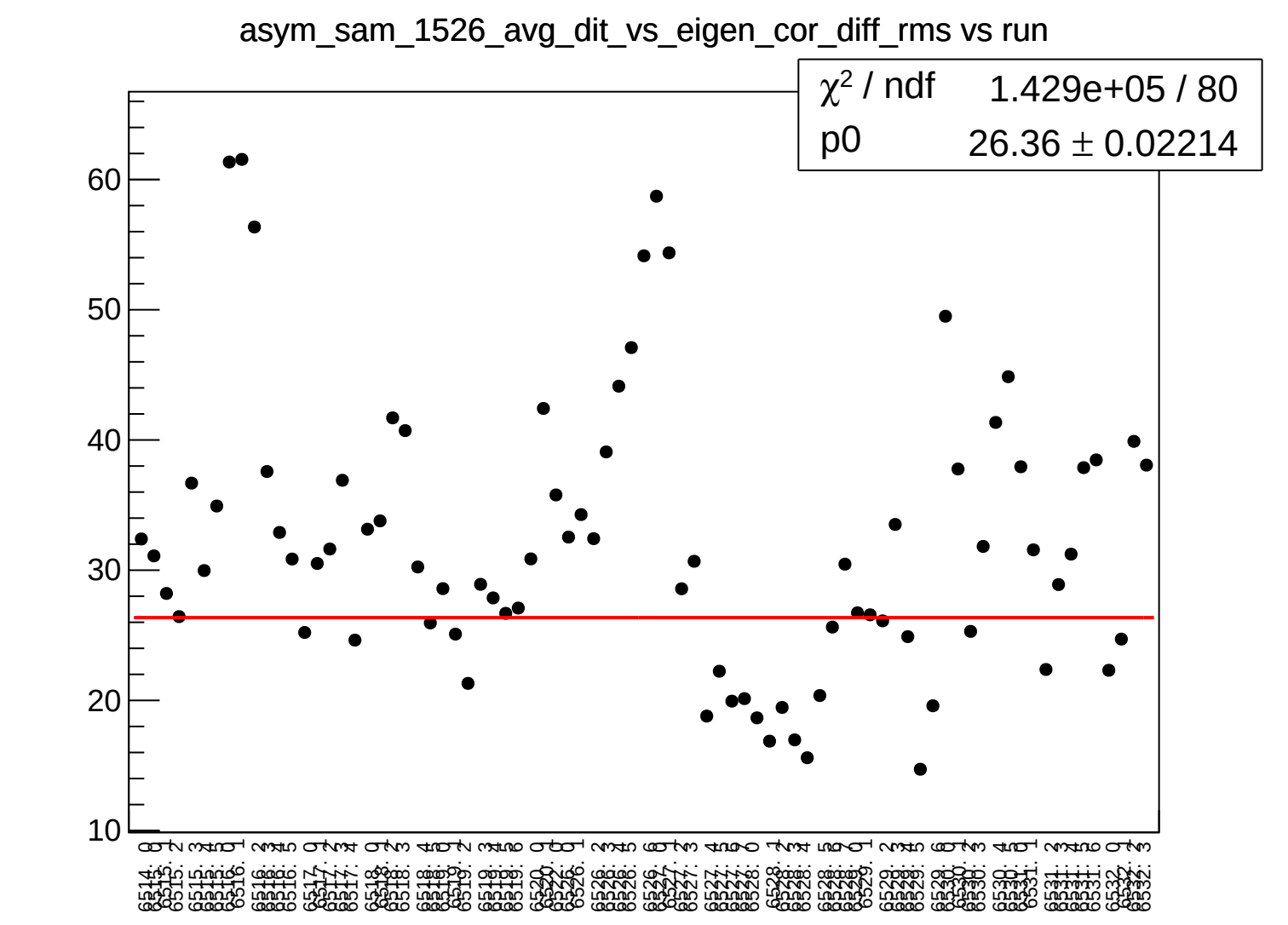

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 98.79 / 80
p0 9.26e−15 ± 1.382e−14
pull
Entries 81
Mean 24.94
Std Dev 0
pull1D
Entries 81
Mean 0.0553
Std Dev 1.103

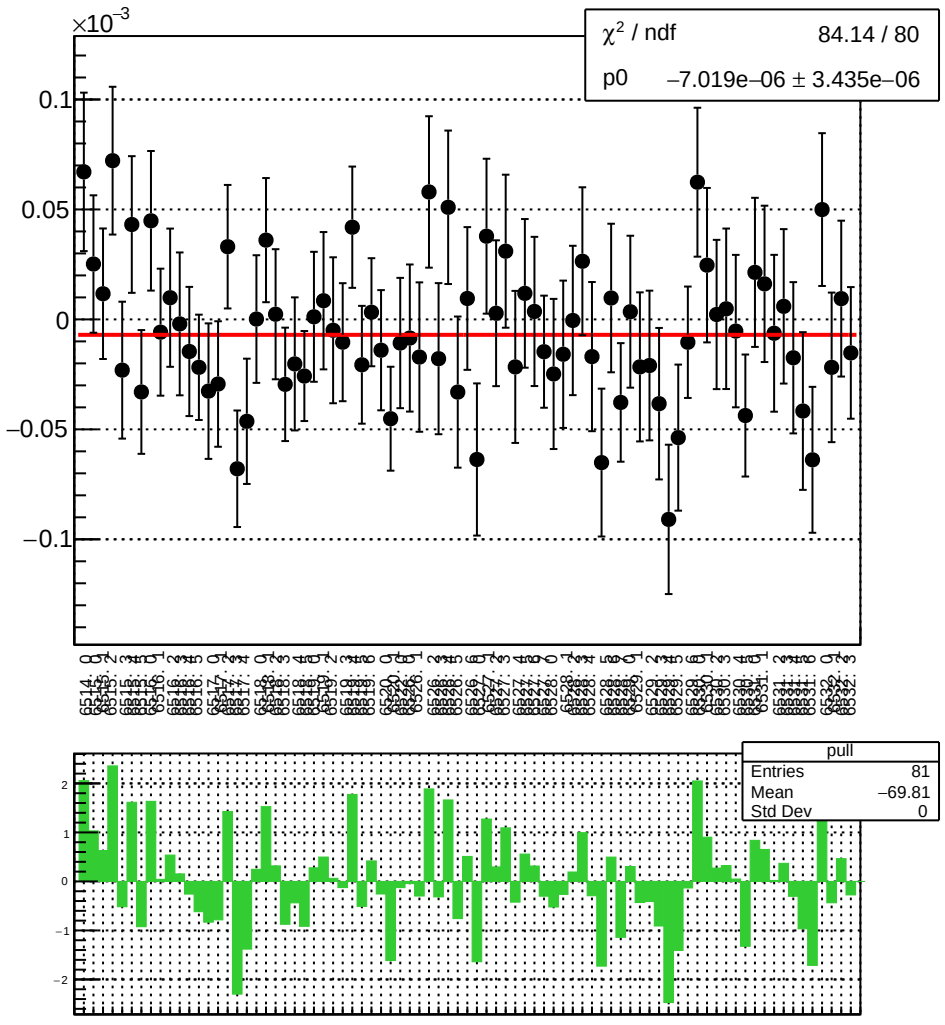

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 6.862e+05 / 80
p0 9.138e−12 ± 9.771e−15
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

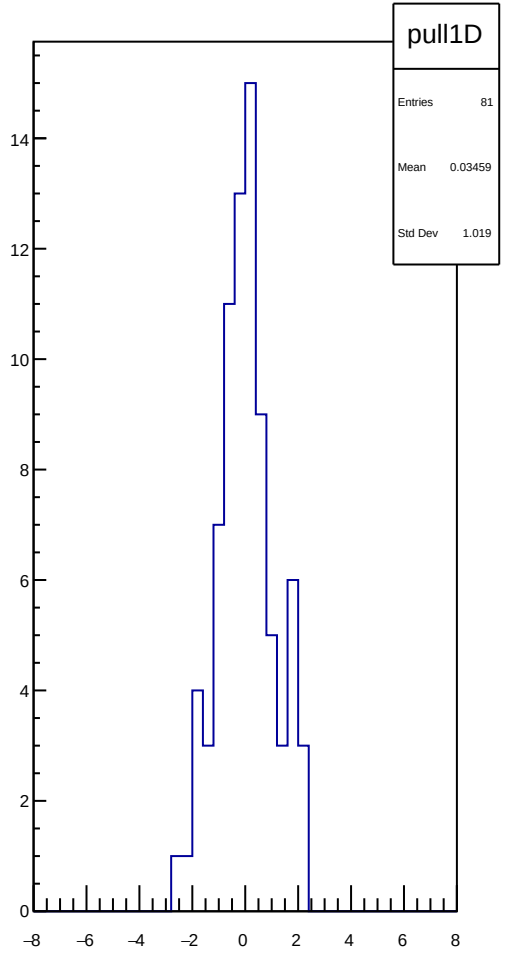

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 116.9 / 80
p0 −0.03717 ± 0.0313
pull
Entries 81
Mean −414
Std Dev 0
pull1D
Entries 81
Mean 0.02217
Std Dev 1.201

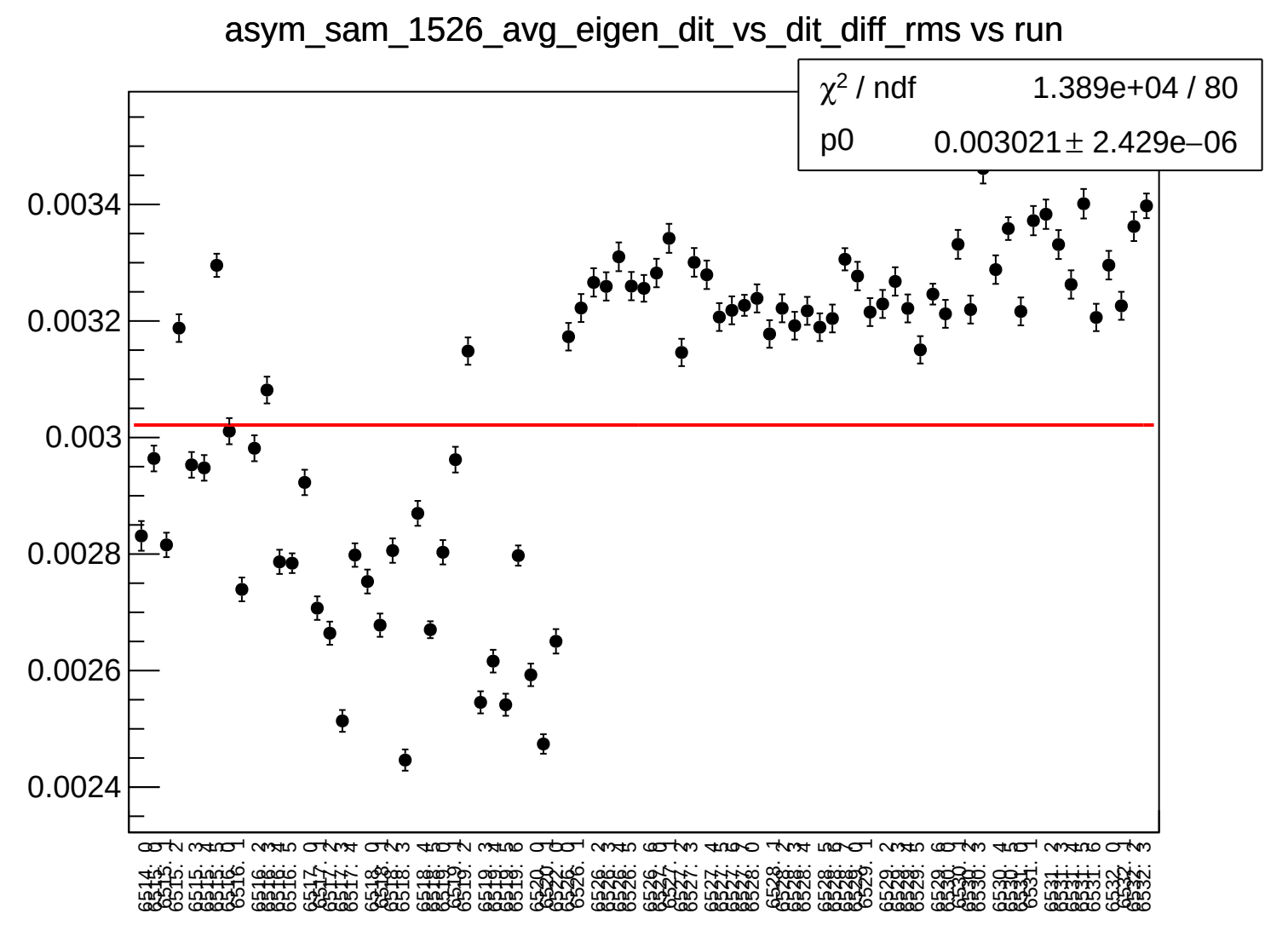

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.429e+05 / 80
p0 26.36 ± 0.02214
60
50
40
30
20
10

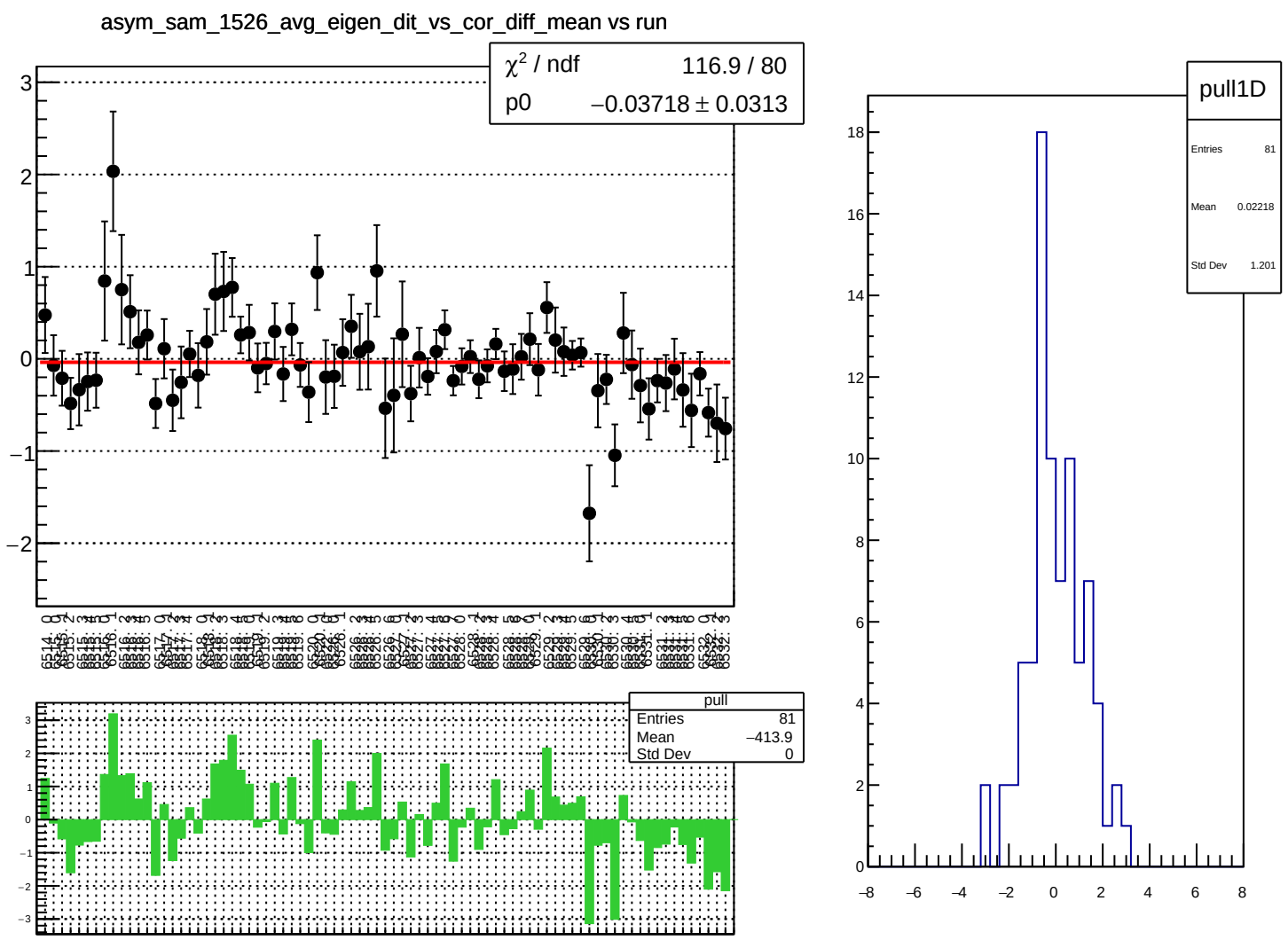

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 116.9 / 80
p0 −0.03717 ± 0.0313
pull
Entries 81
Mean −414
Std Dev 0
pull1D
Entries 81
Mean 0.02217
Std Dev 1.201

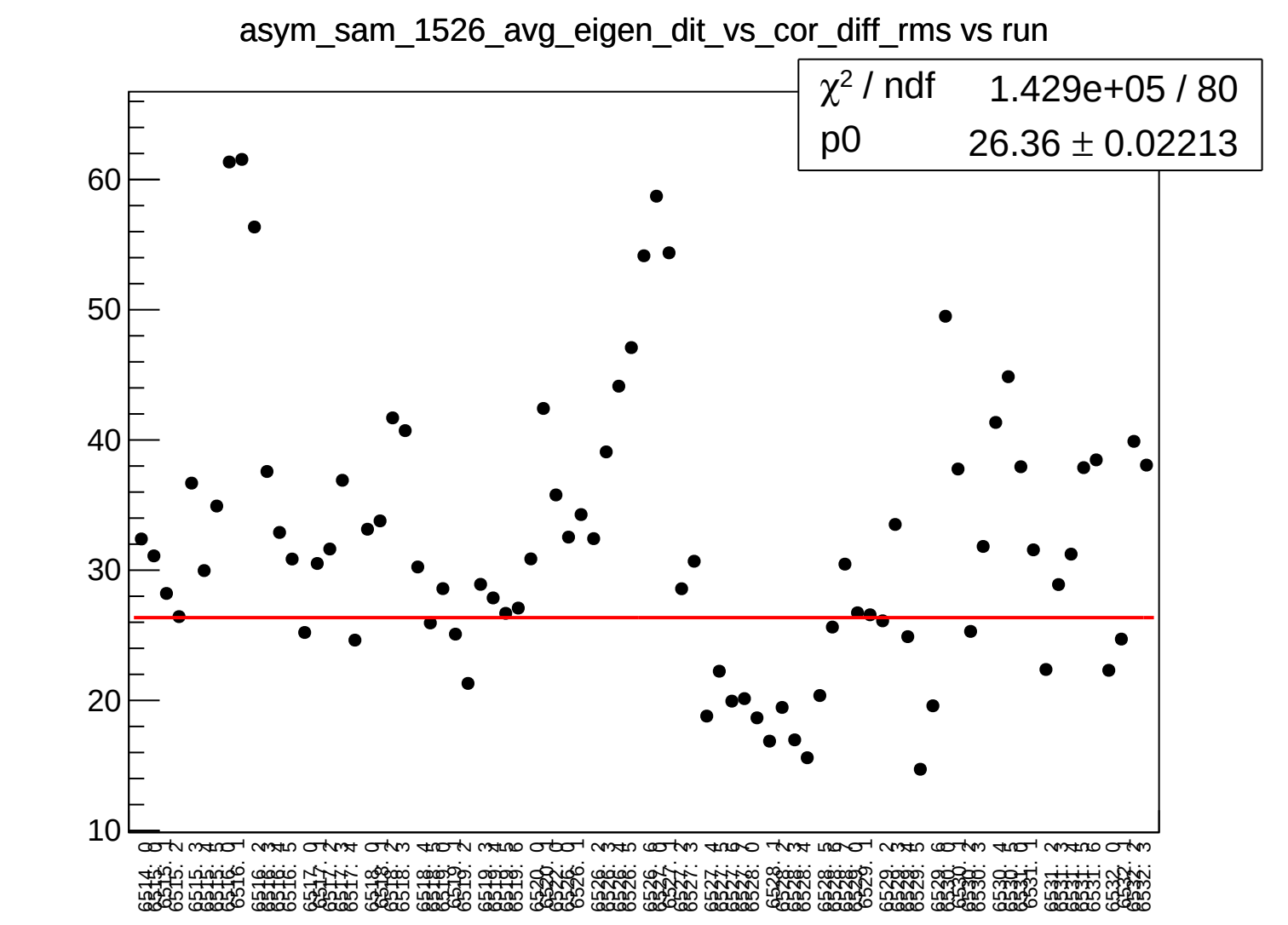

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.429e+05 / 80
p0 26.36 ± 0.02214
60
50
40
30
20
10

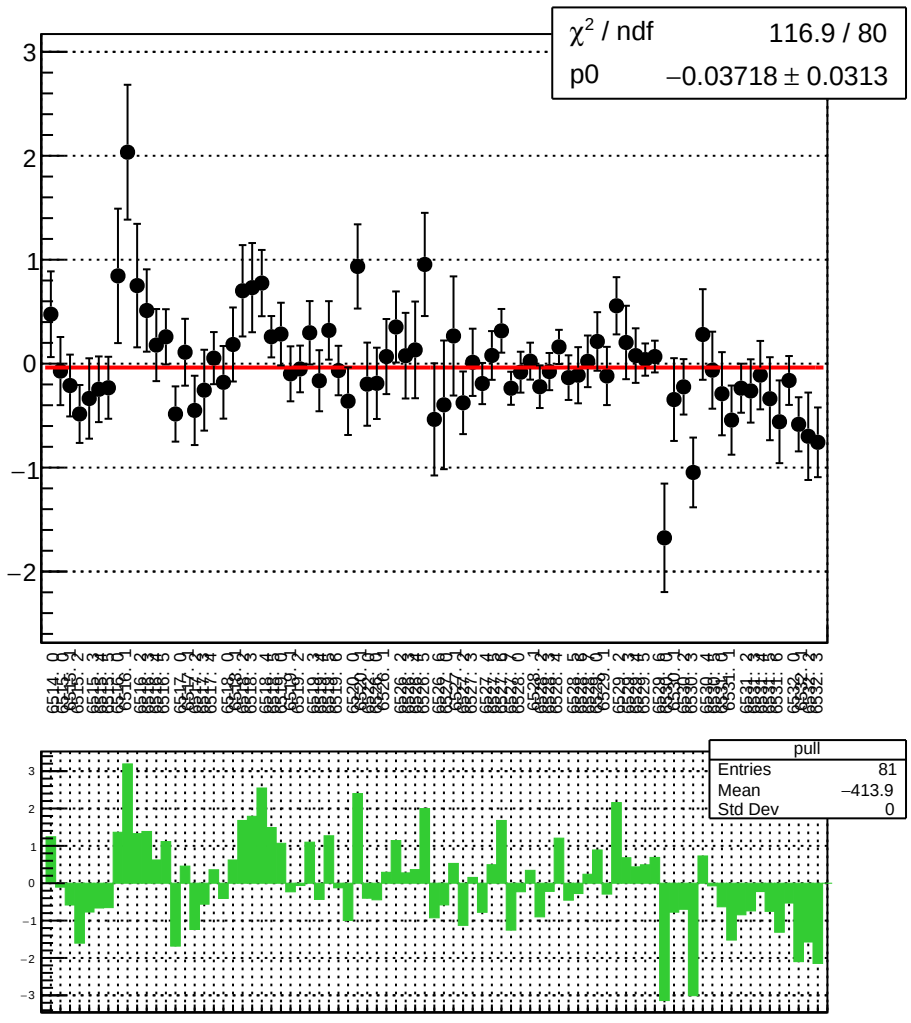

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.14 / 80
p0 −7.019e−06 ± 3.435e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 81
Mean −69.81
Std Dev 0
2
1
0
−1
−2

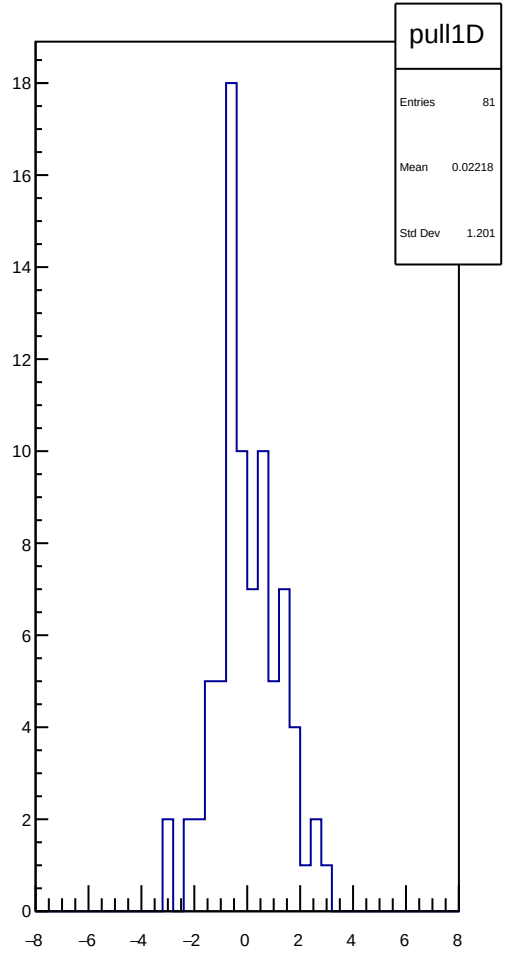

pull1D
Entries 81
Mean 0.03459
Std Dev 1.019
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

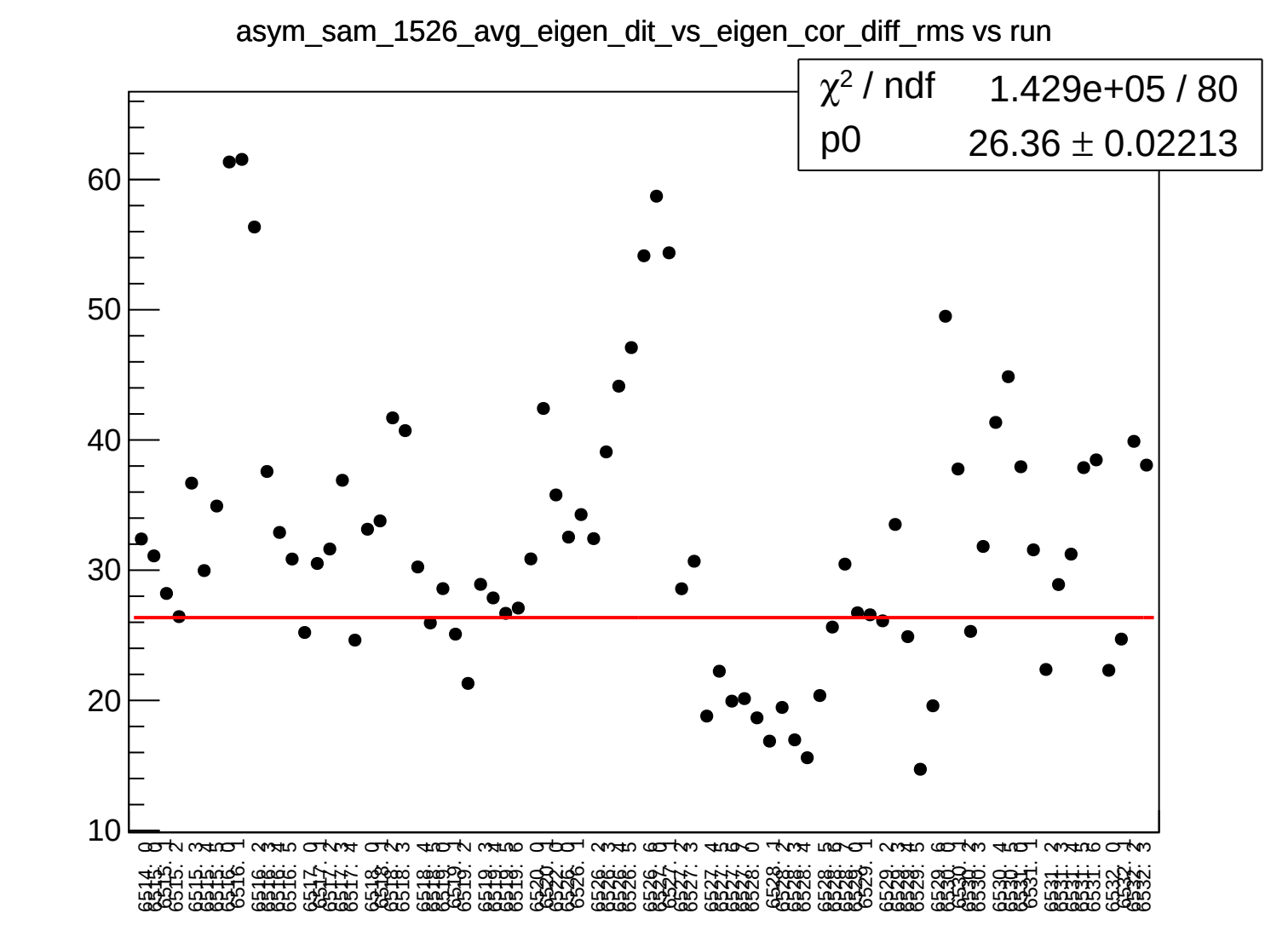

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.389e+04 / 80
p0 0.003021 ± 2.429e−06
0.0034
0.0032
0.003
0.0028
0.0026
0.0024

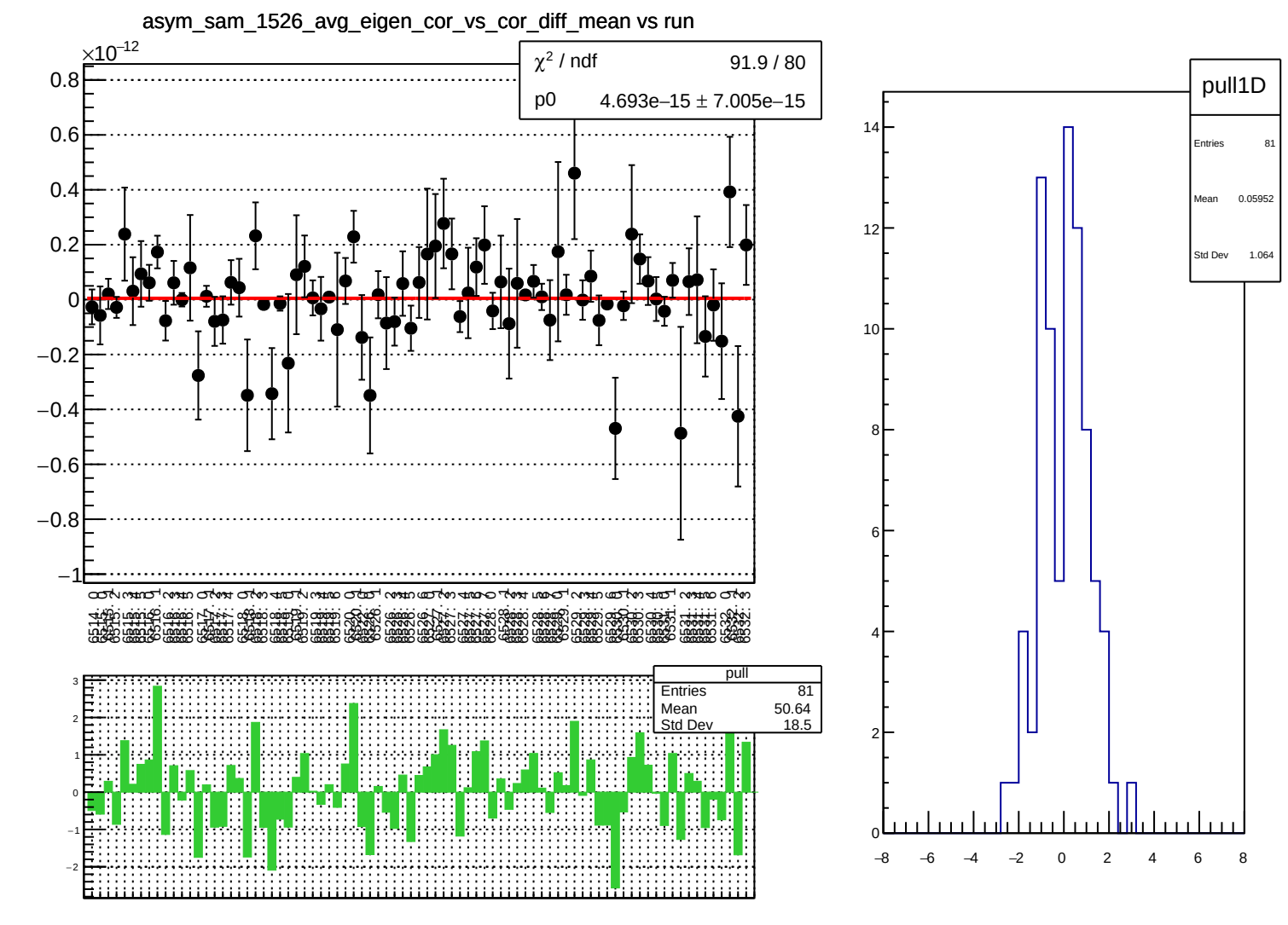

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 116.9 / 80
p0 −0.03718 ± 0.0313
pull
Entries 81
Mean −413.9
Std Dev 0
pull1D
Entries 81
Mean 0.02218
Std Dev 1.201

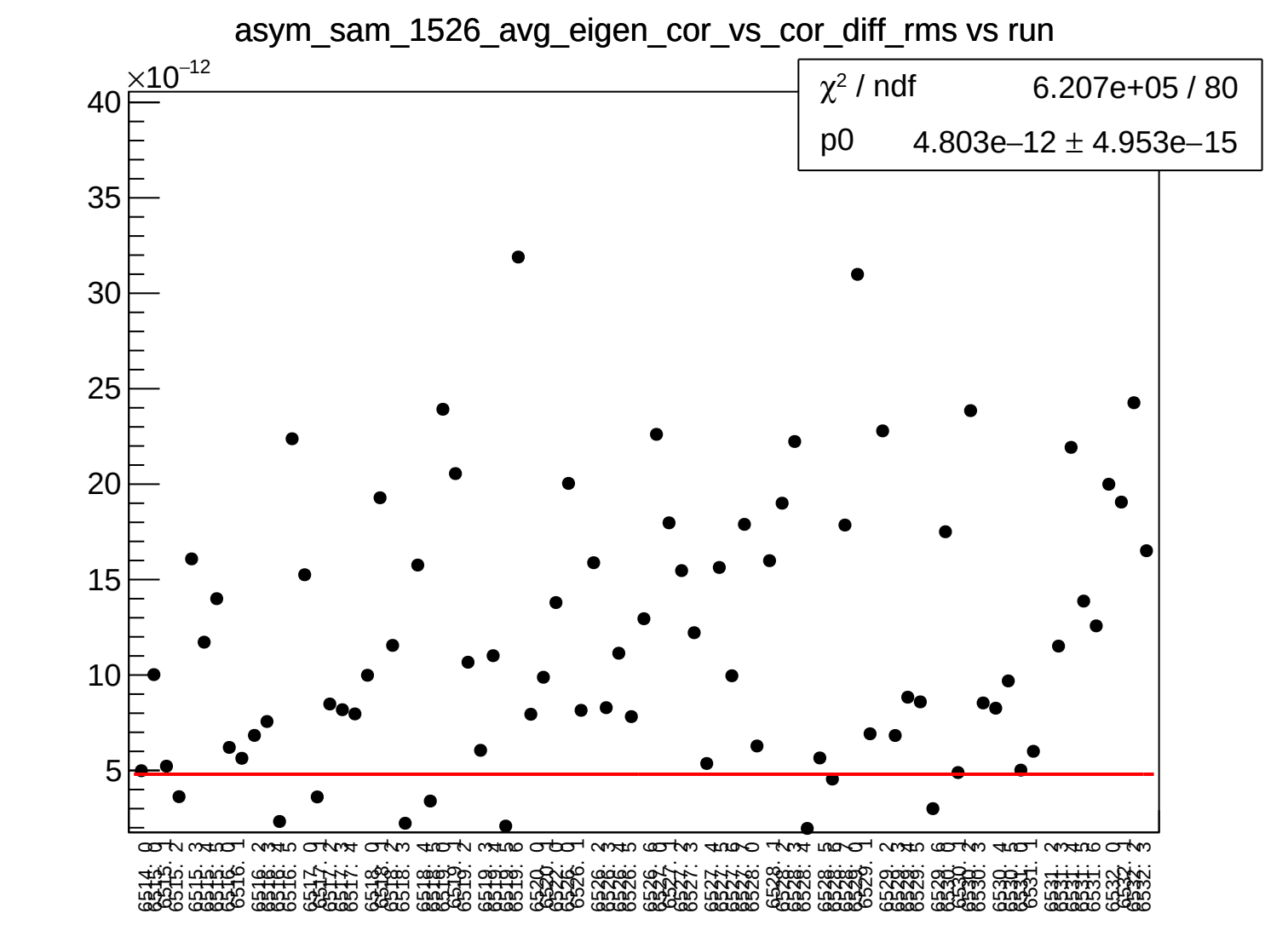

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.429e+05 / 80
p0 26.36 ± 0.02213
60
50
40
30
20
10

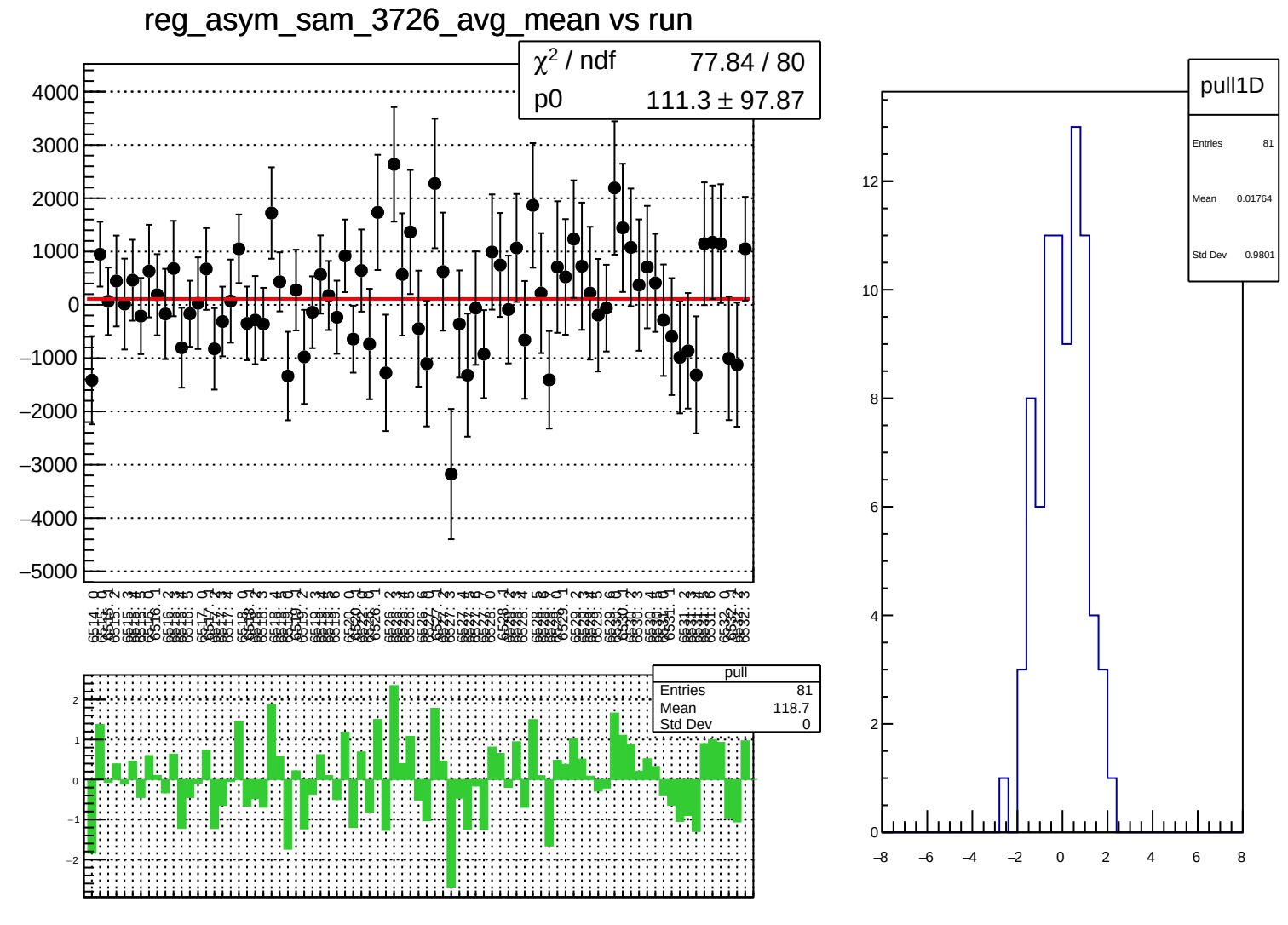

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ^2 / ndf 116.9 / 80
p0 −0.03718 ± 0.0313
pull
Entries 81
Mean −413.9
Std Dev 0

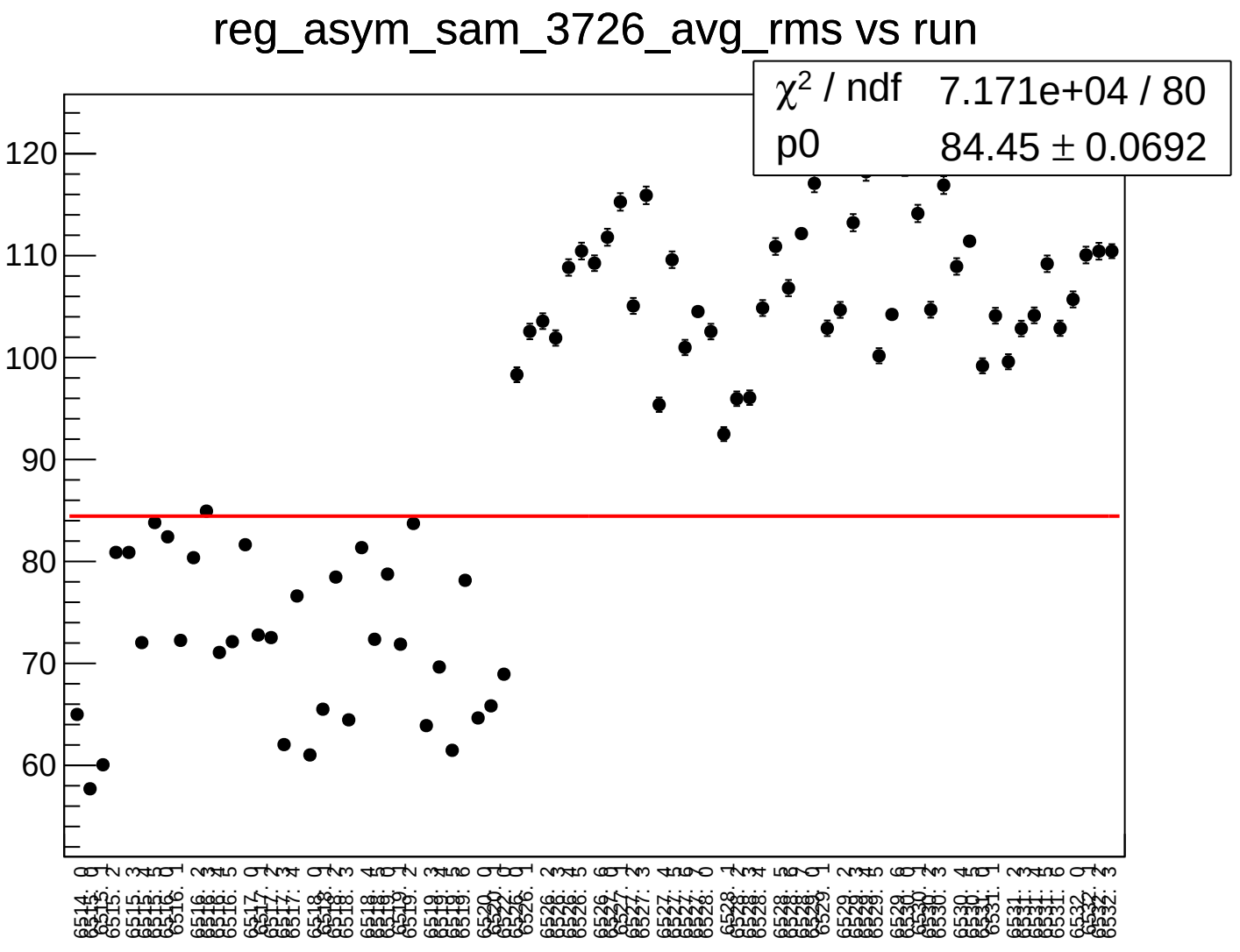

pull1D
Entries 81
Mean 0.02218
Std Dev 1.201

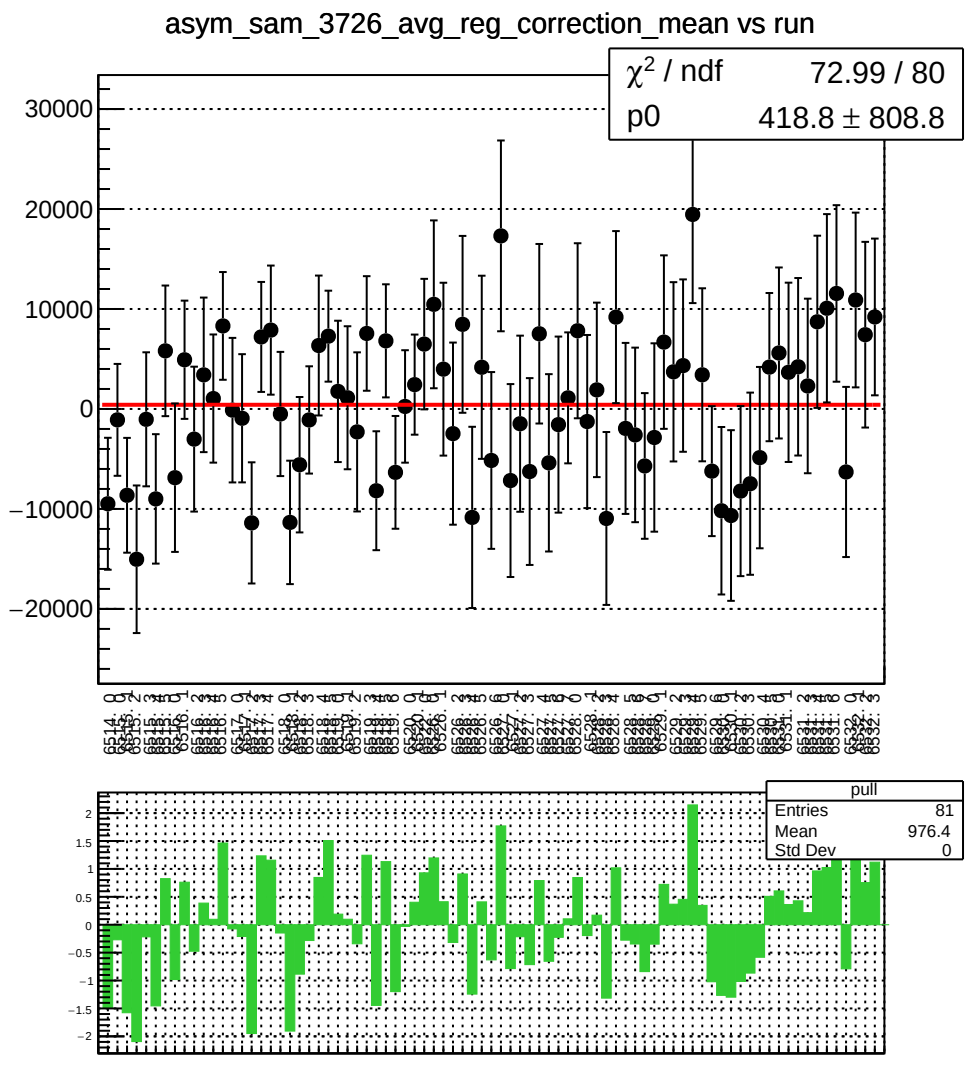

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.429e+05 / 80
p0 26.36 ± 0.02213
60
50
40
30
20
10

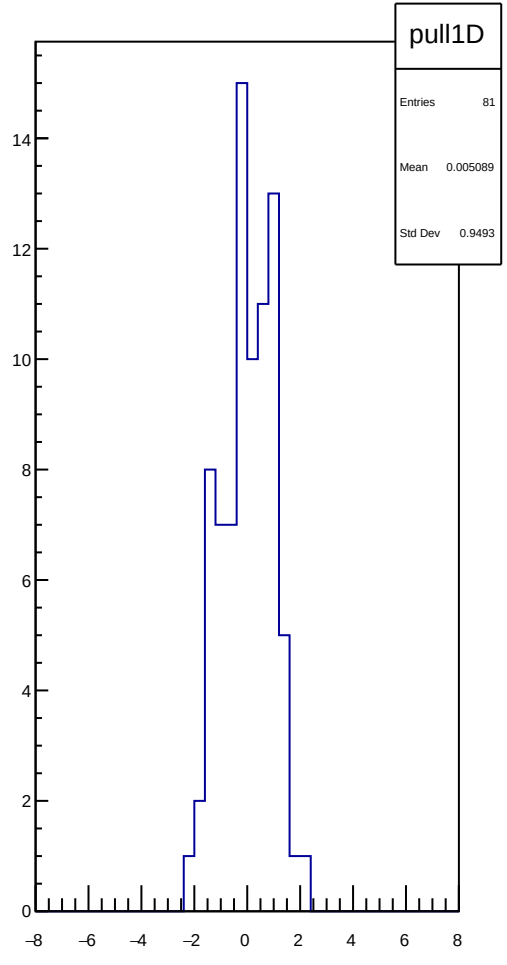

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.9 / 80
p0 4.693e−15 ± 7.005e−15
pull
Entries 81
Mean 50.64
Std Dev 18.5
pull1D
Entries 81
Mean 0.05952
Std Dev 1.064

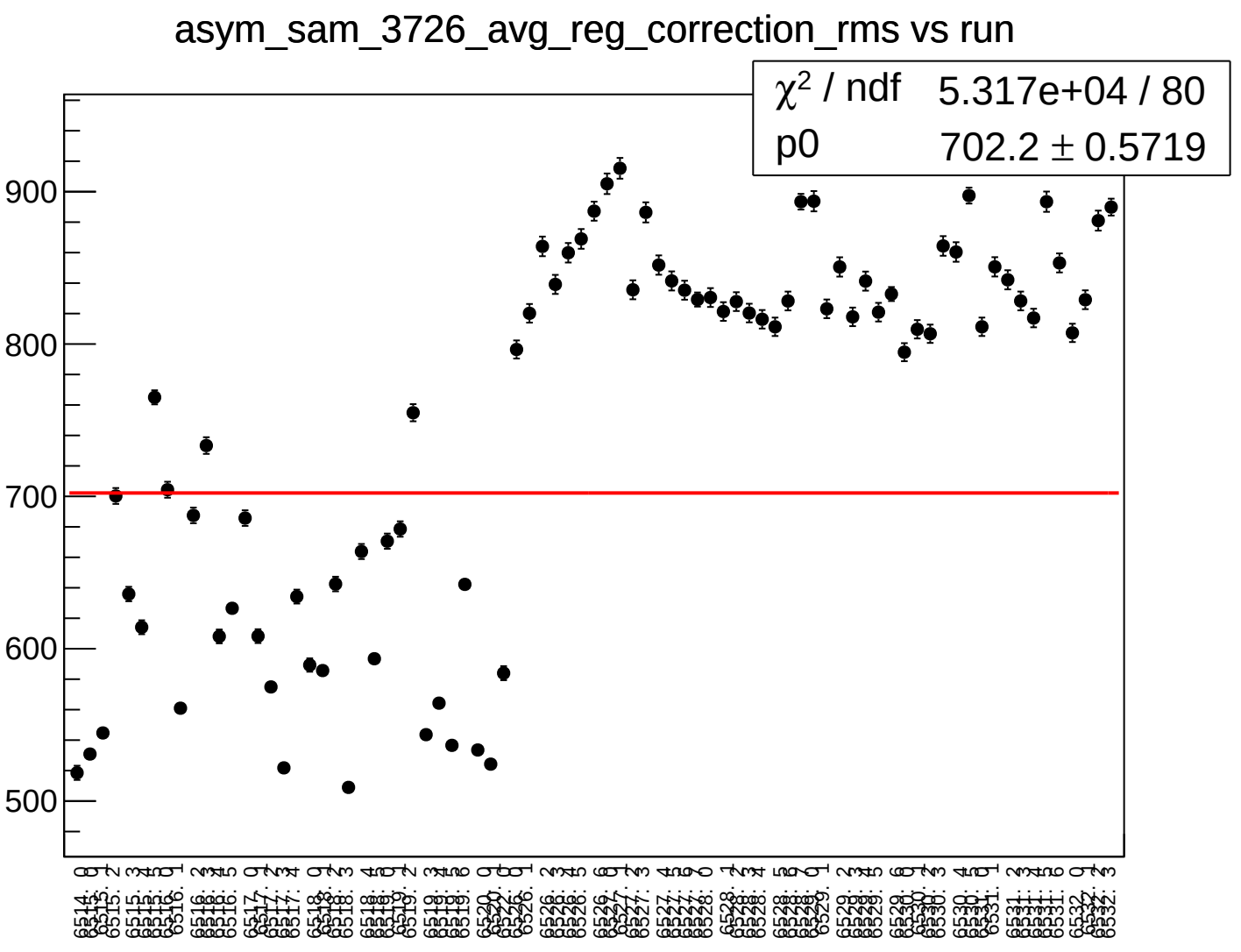

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.207e+05 / 80
p0 4.803e−12 ± 4.953e−15
40
35
30
25
20
15
10
5

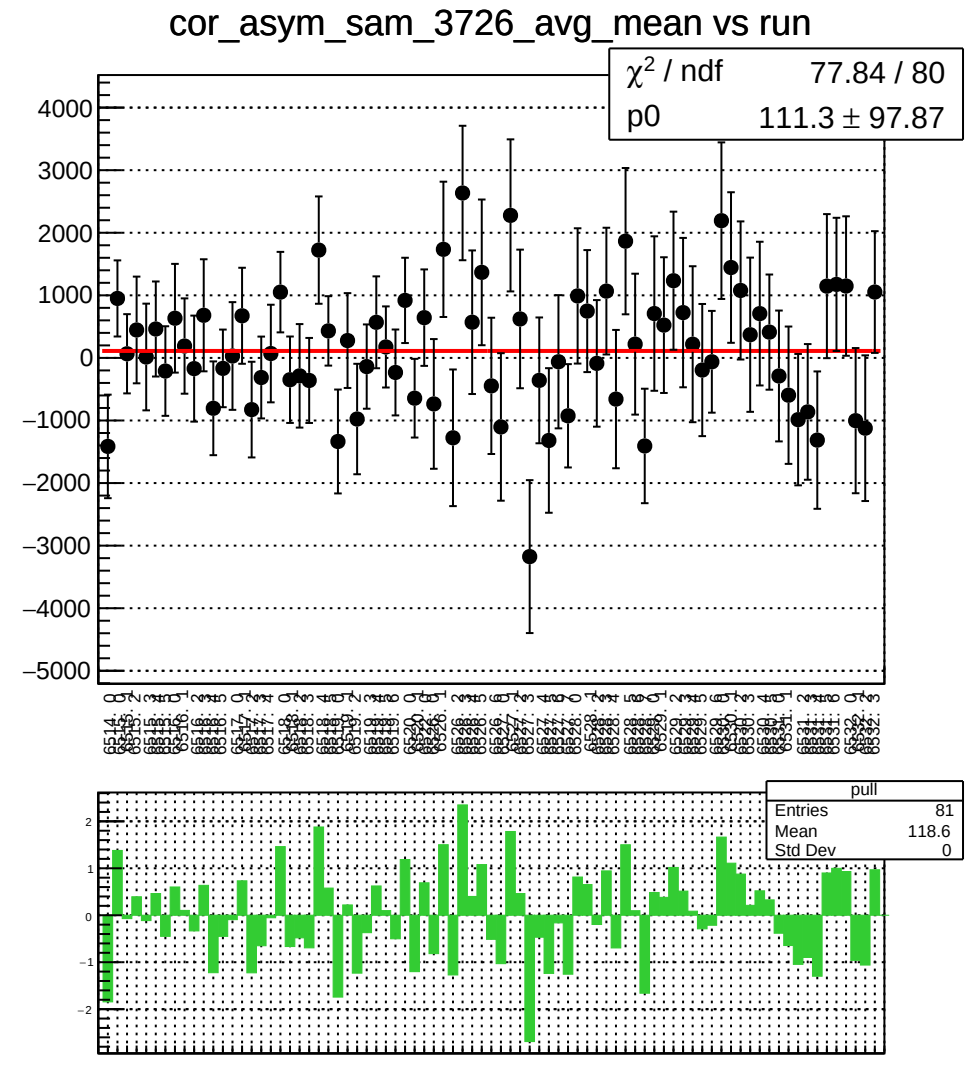

reg_asym_sam_3726_avg_mean vs run
χ^2 / ndf 77.84 / 80
p0 111.3 ± 97.87
pull
Entries 81
Mean 118.7
Std Dev 0
pull1D
Entries 81
Mean 0.01764
Std Dev 0.9801

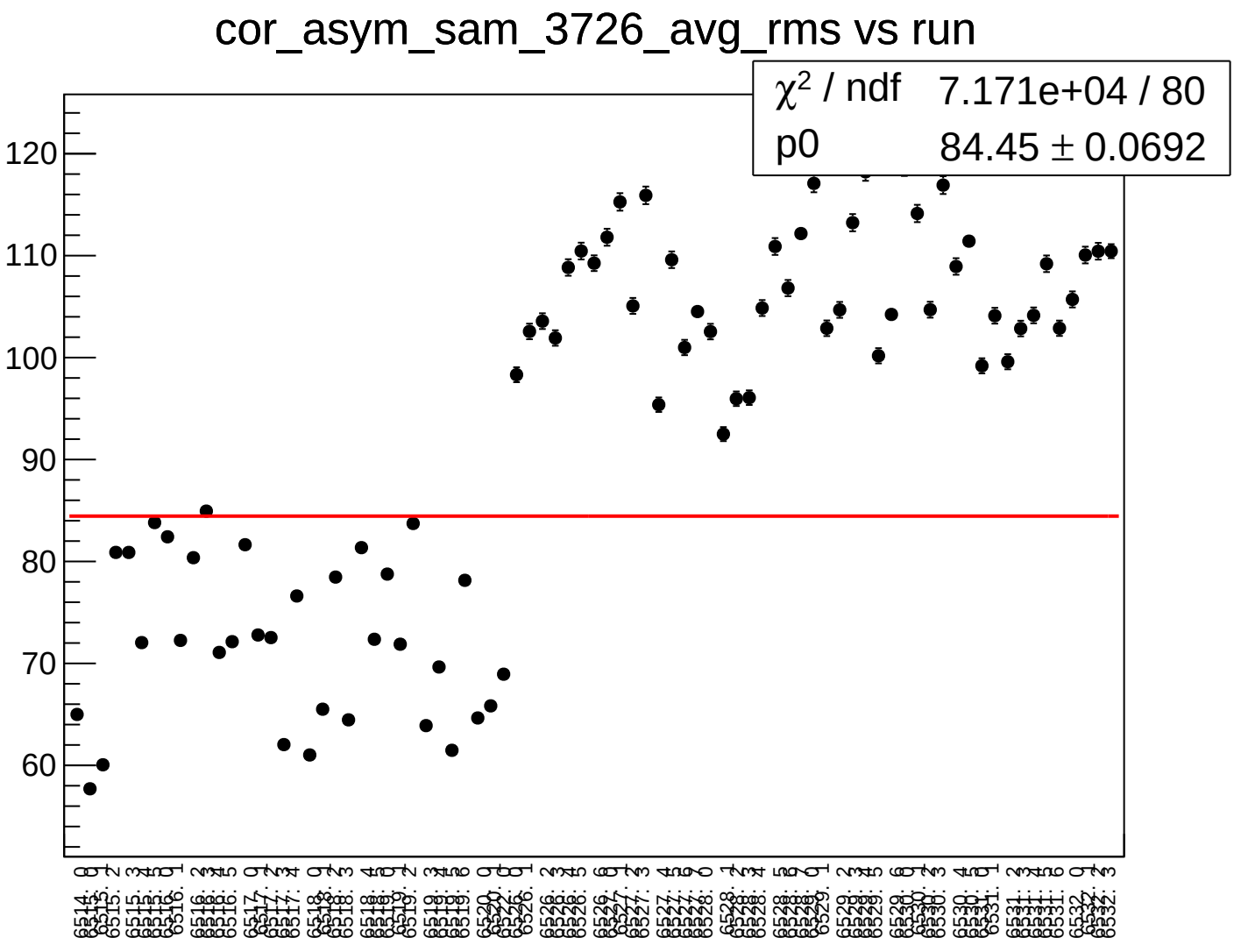

reg_asym_sam_3726_avg_rms vs run
χ² / ndf 7.171e+04 / 80
p0 84.45 ± 0.0692
120
110
100
90
80
70
60

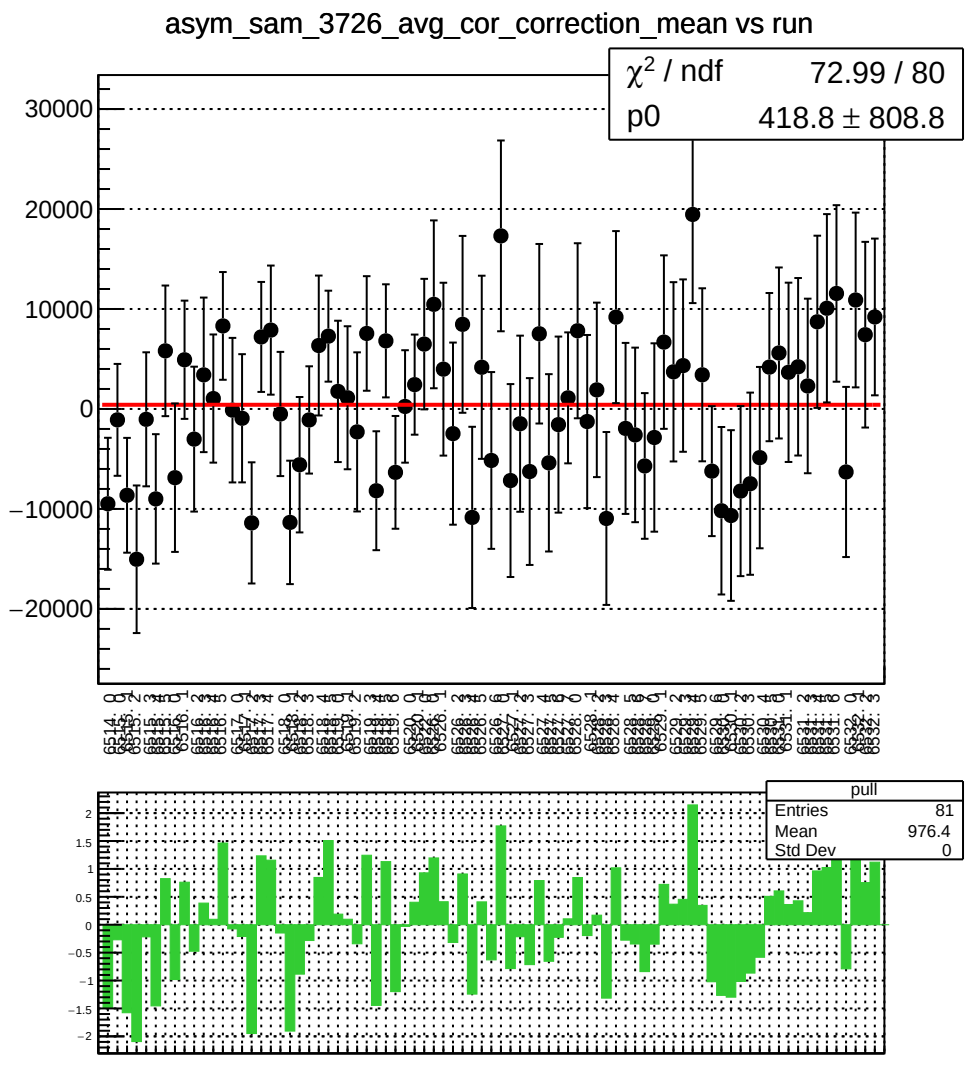

asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 72.99 / 80
p0 418.8 ± 808.8
30000
20000
10000
0
−10000
−20000
pull
Entries 81
Mean 976.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

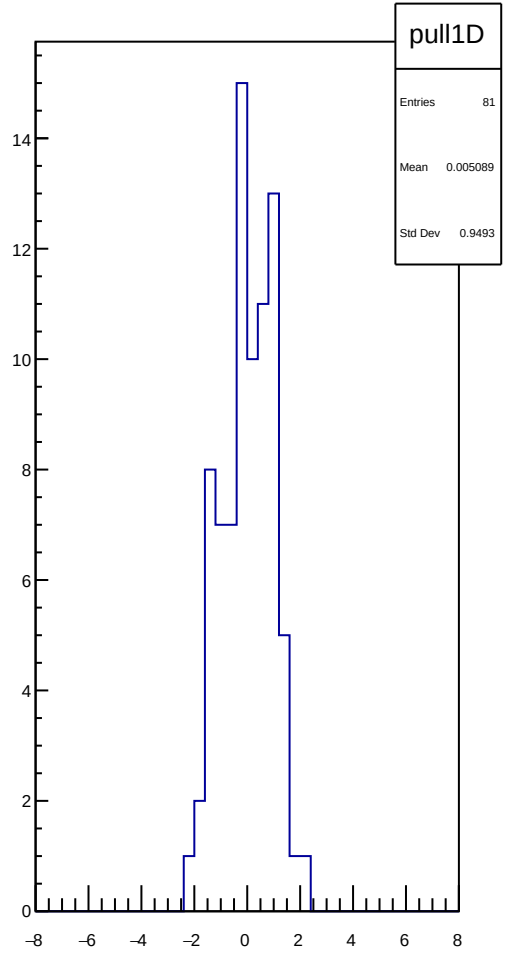

pull1D
Entries 81
Mean 0.005089
Std Dev 0.9493
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

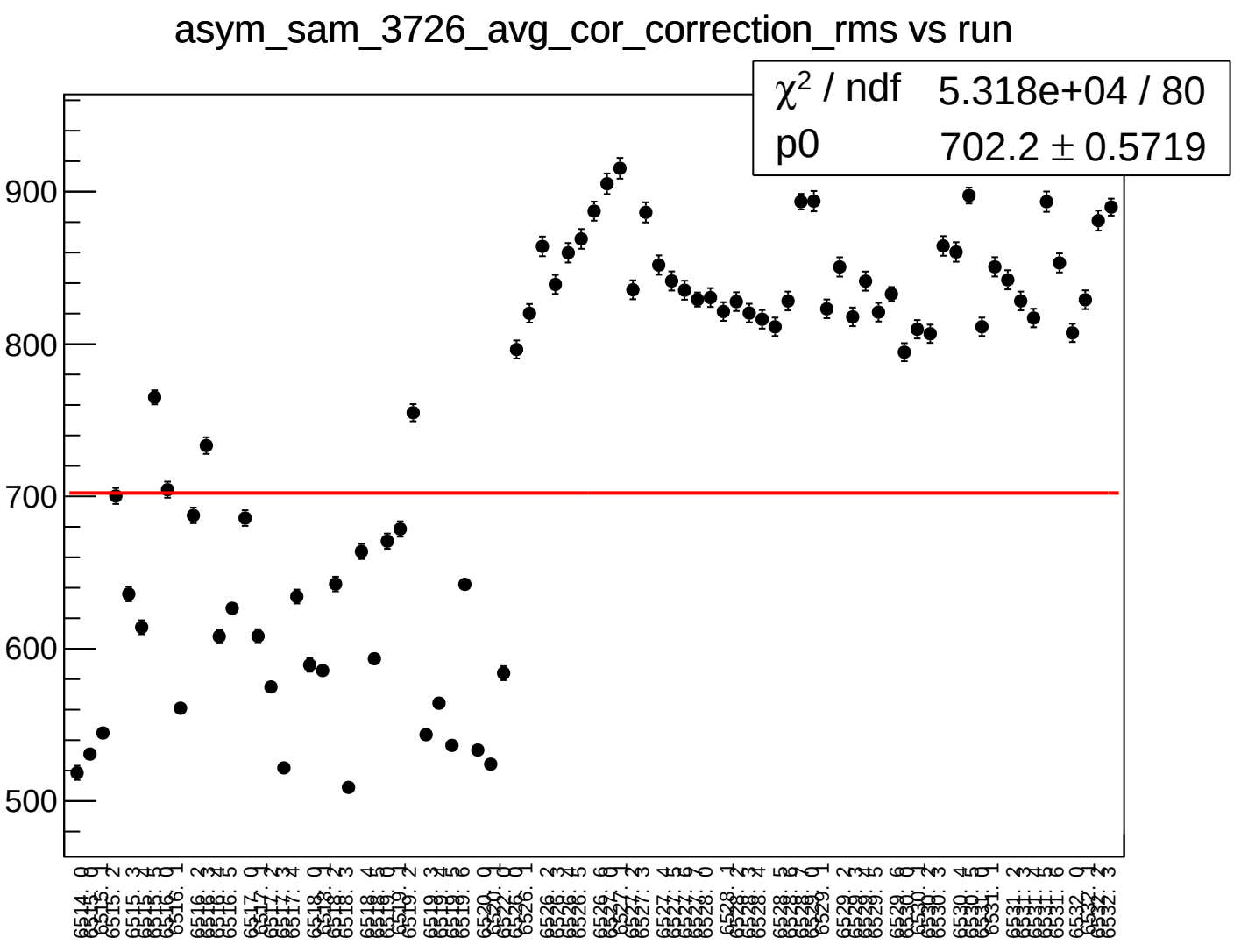

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 5.317e+04 / 80
p0 702.2 ± 0.5719
900
800
700
600
500

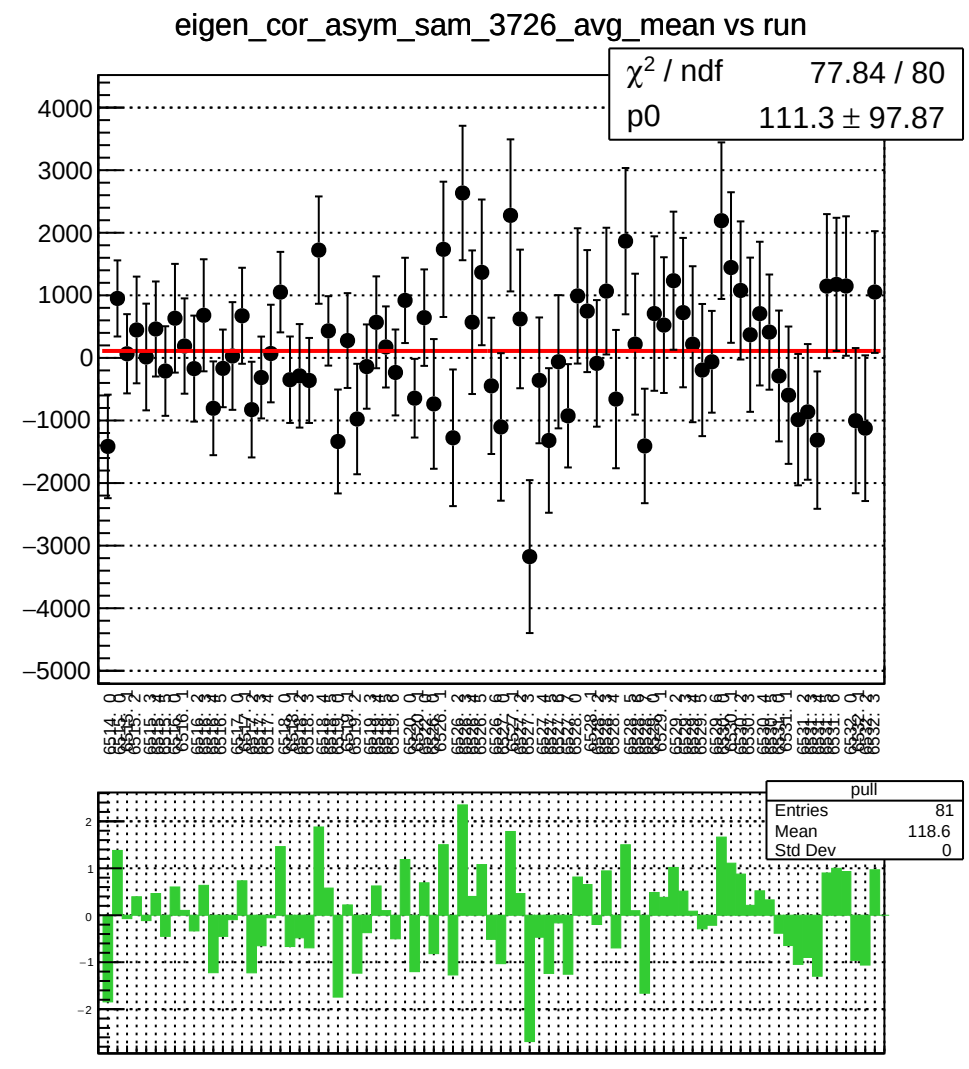

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 77.84 / 80
p0 111.3 ± 97.87
pull
Entries 81
Mean 118.6
Std Dev 0
pull1D
Entries 81
Mean 0.01764
Std Dev 0.9801

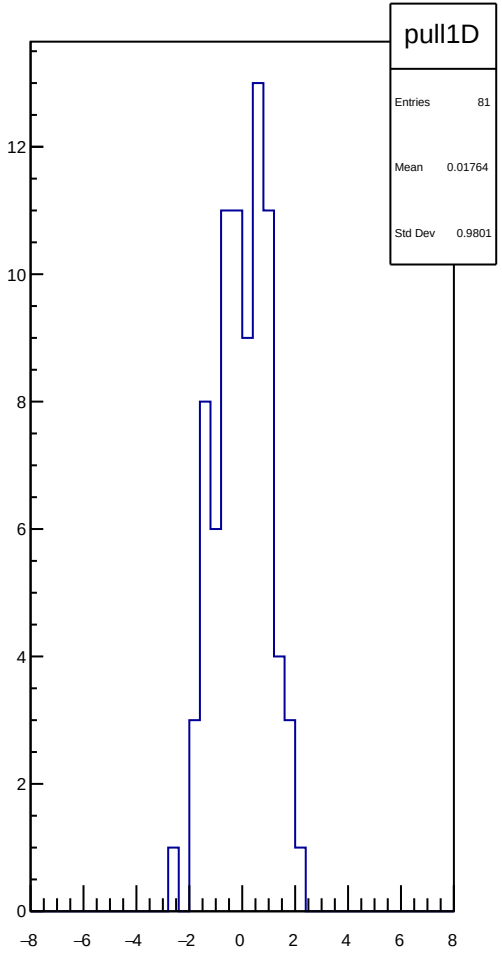

cor_asym_sam_3726_avg_rms vs run
χ^2 / ndf 7.171e+04 / 80
p0 84.45 ± 0.0692
120
110
100
90
80
70
60

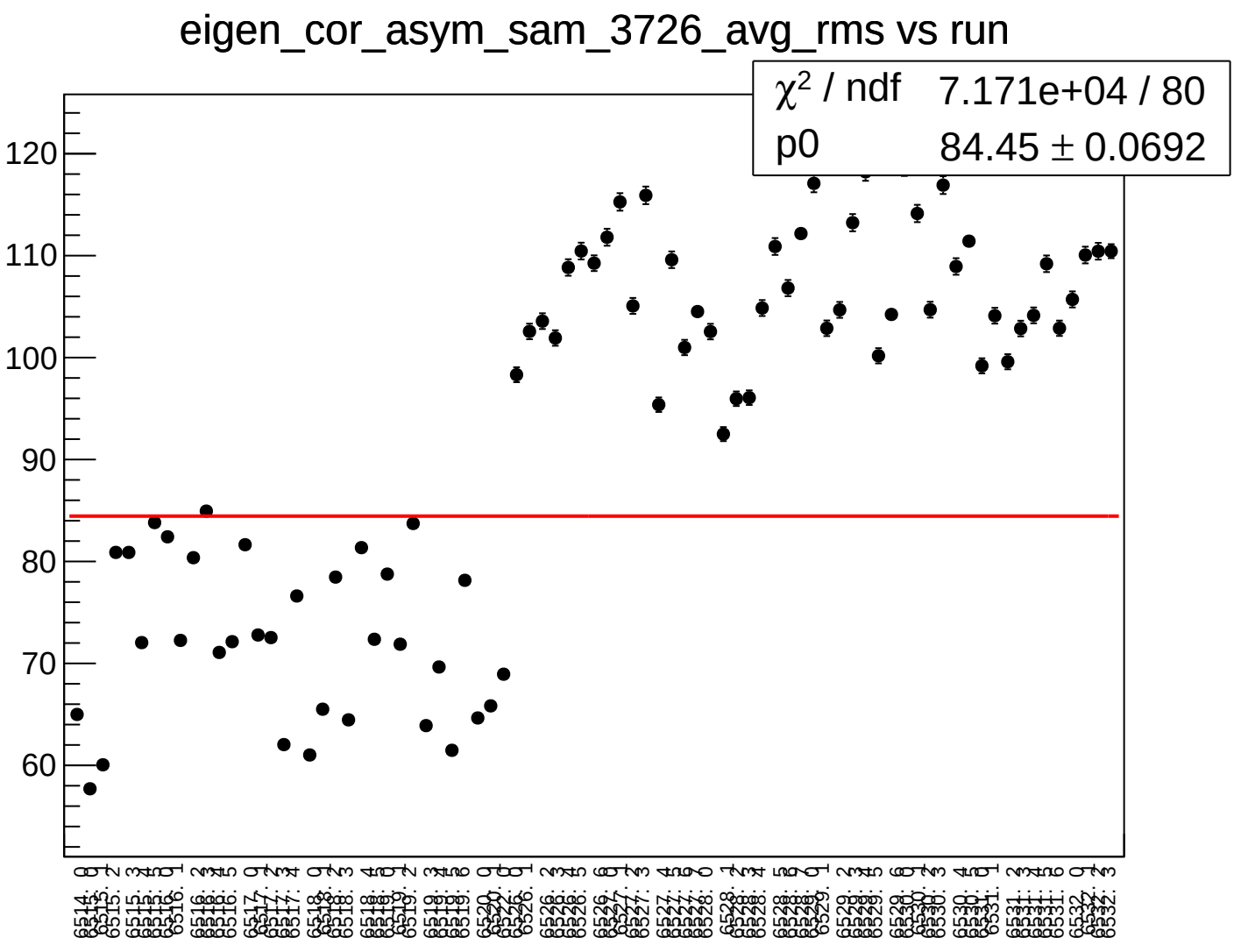

asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 72.99 / 80
p0 418.8 ± 808.8
30000
20000
10000
0
−10000
−20000
pull
Entries 81
Mean 976.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

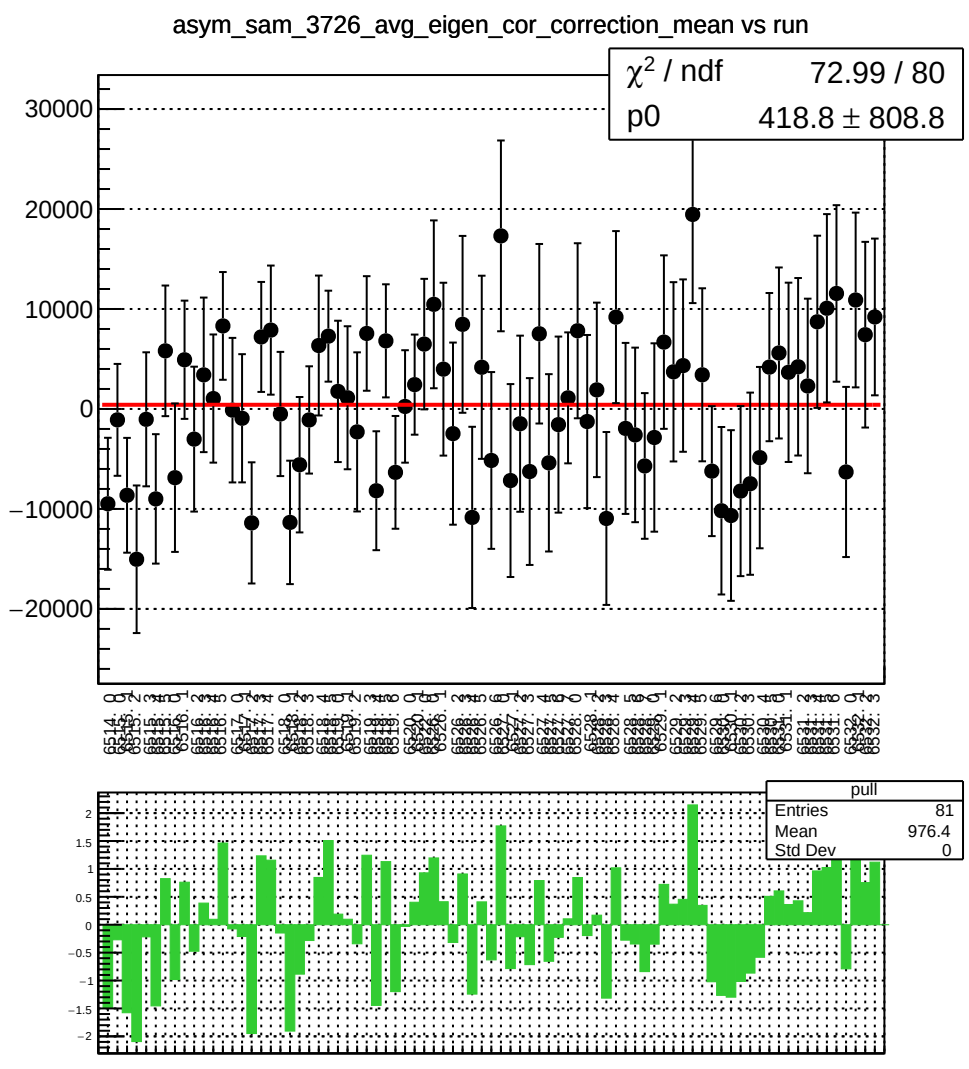

pull1D
Entries 81
Mean 0.005089
Std Dev 0.9493
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

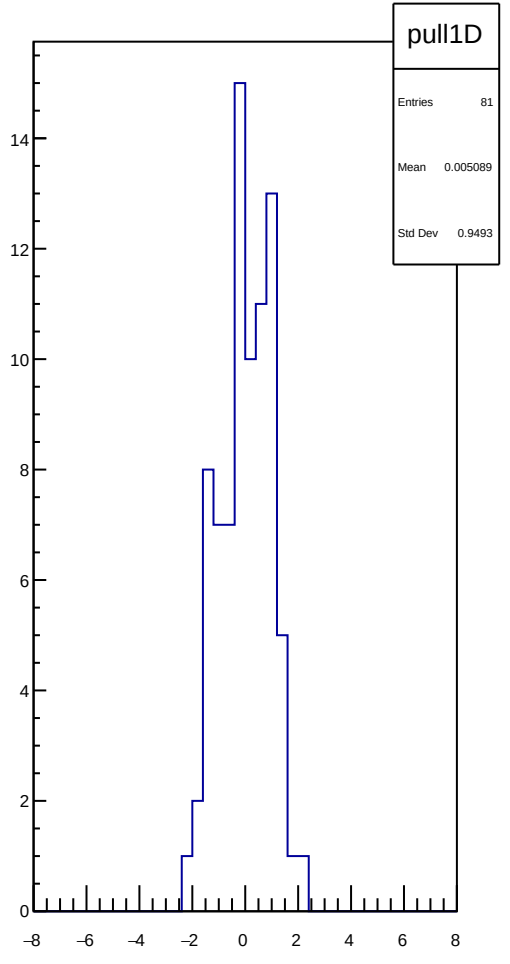

asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 5.318e+04 / 80
p0 702.2 ± 0.5719
900
800
700
600
500

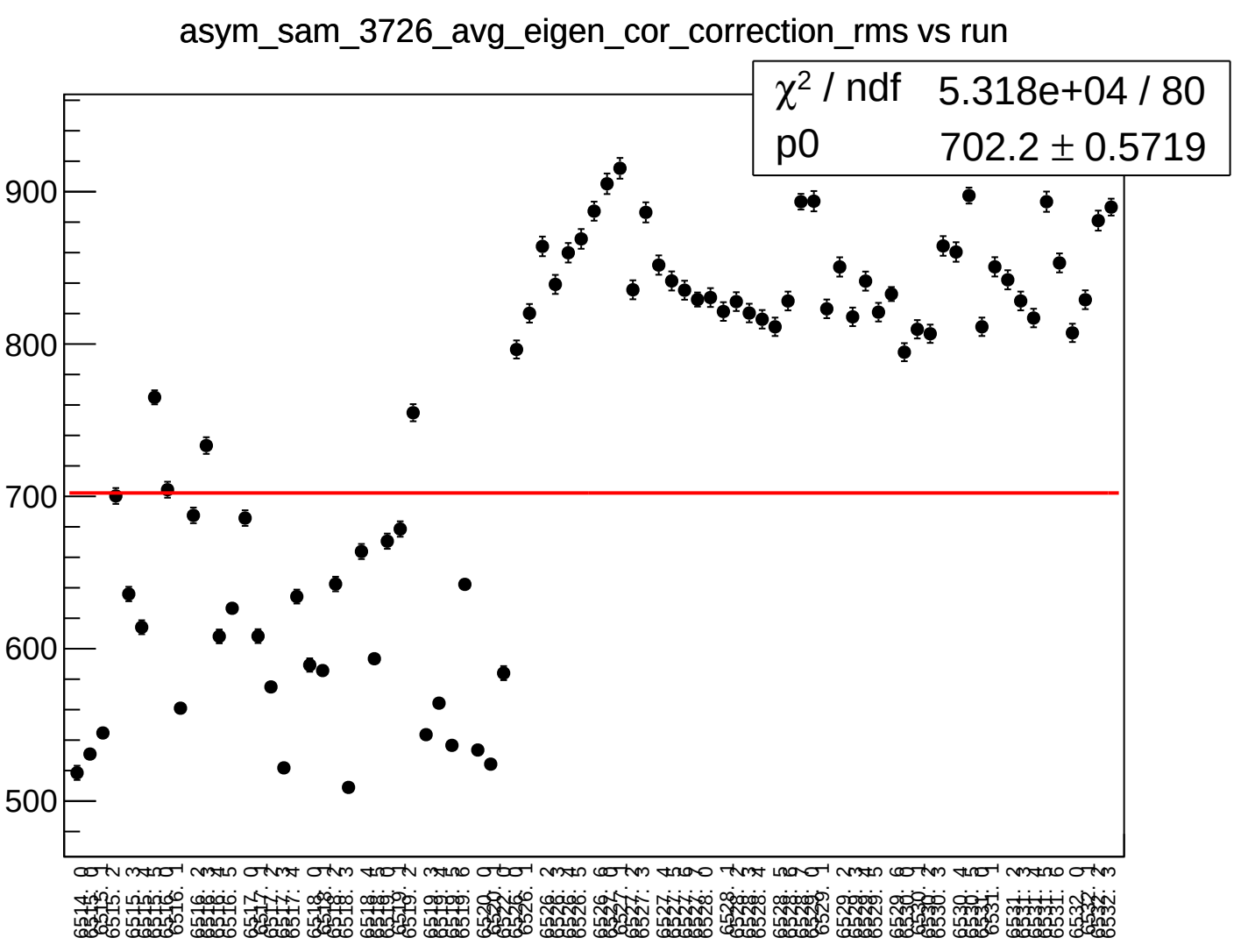

eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 77.84 / 80
p0 111.3 ± 97.87
pull
Entries 81
Mean 118.6
Std Dev 0

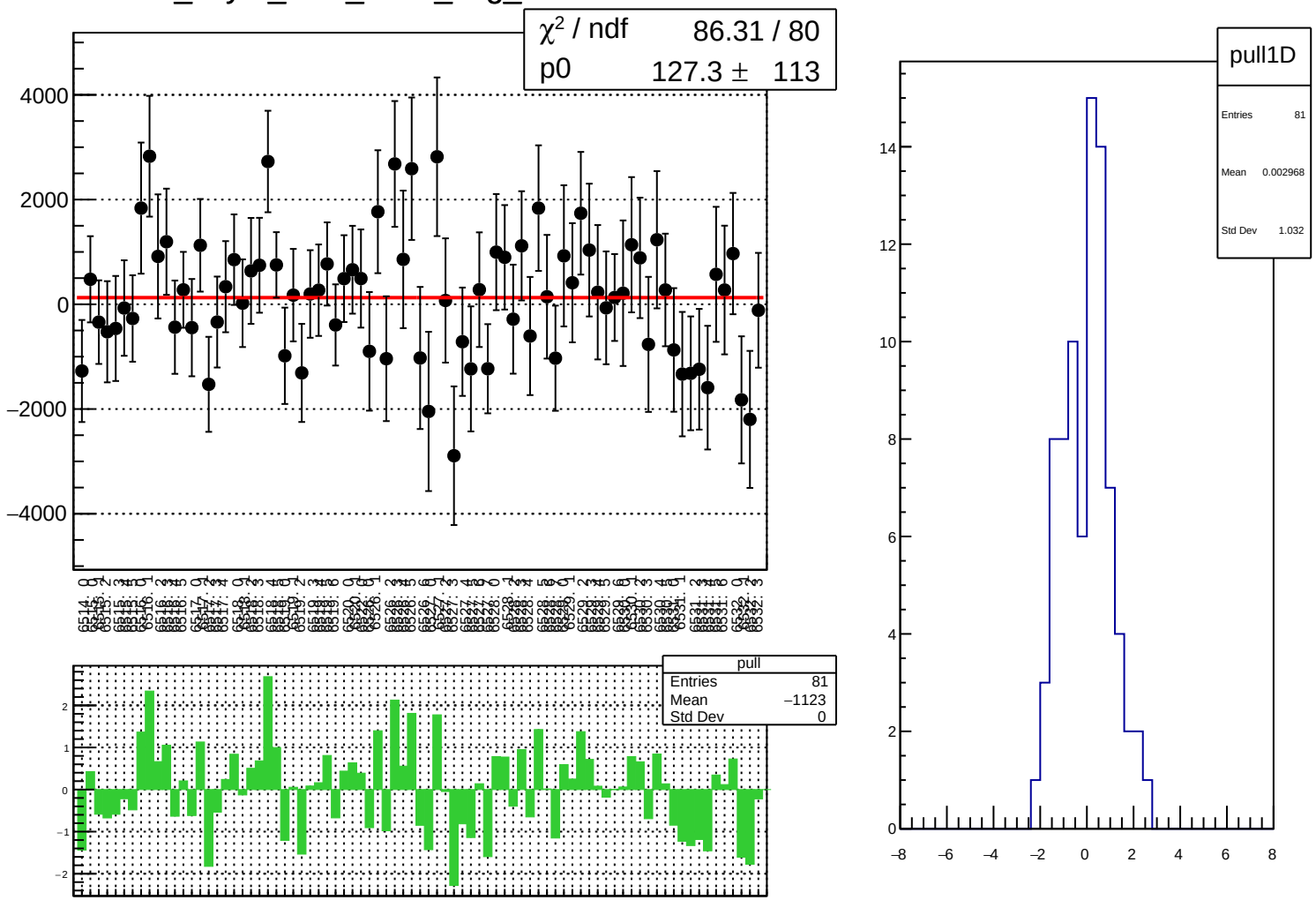

pull1D
Entries 81
Mean 0.01764
Std Dev 0.9801

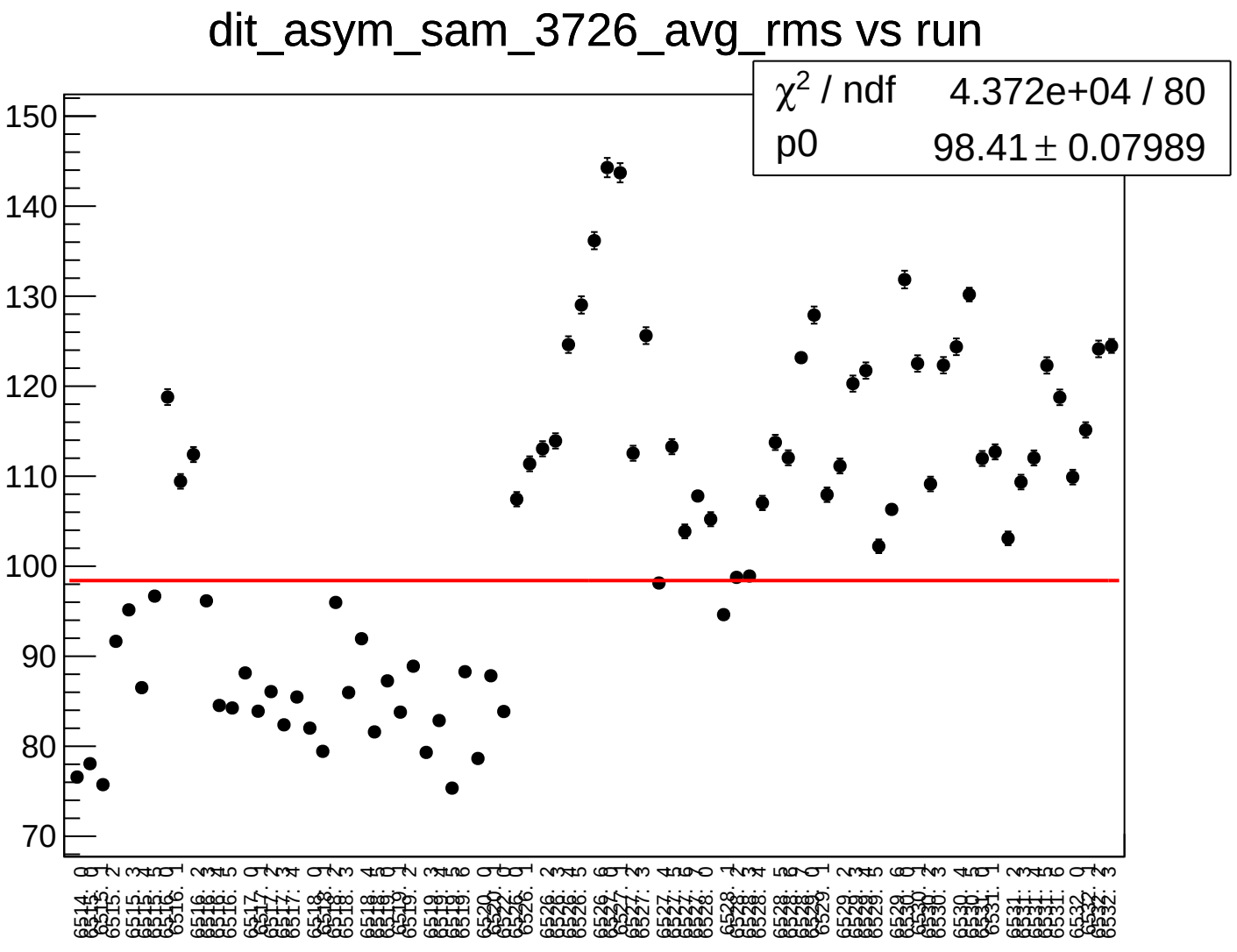

eigen_cor_asym_sam_3726_avg_rms vs run
χ² / ndf 7.171e+04 / 80
p0 84.45 ± 0.0692
120
110
100
90
80
70
60

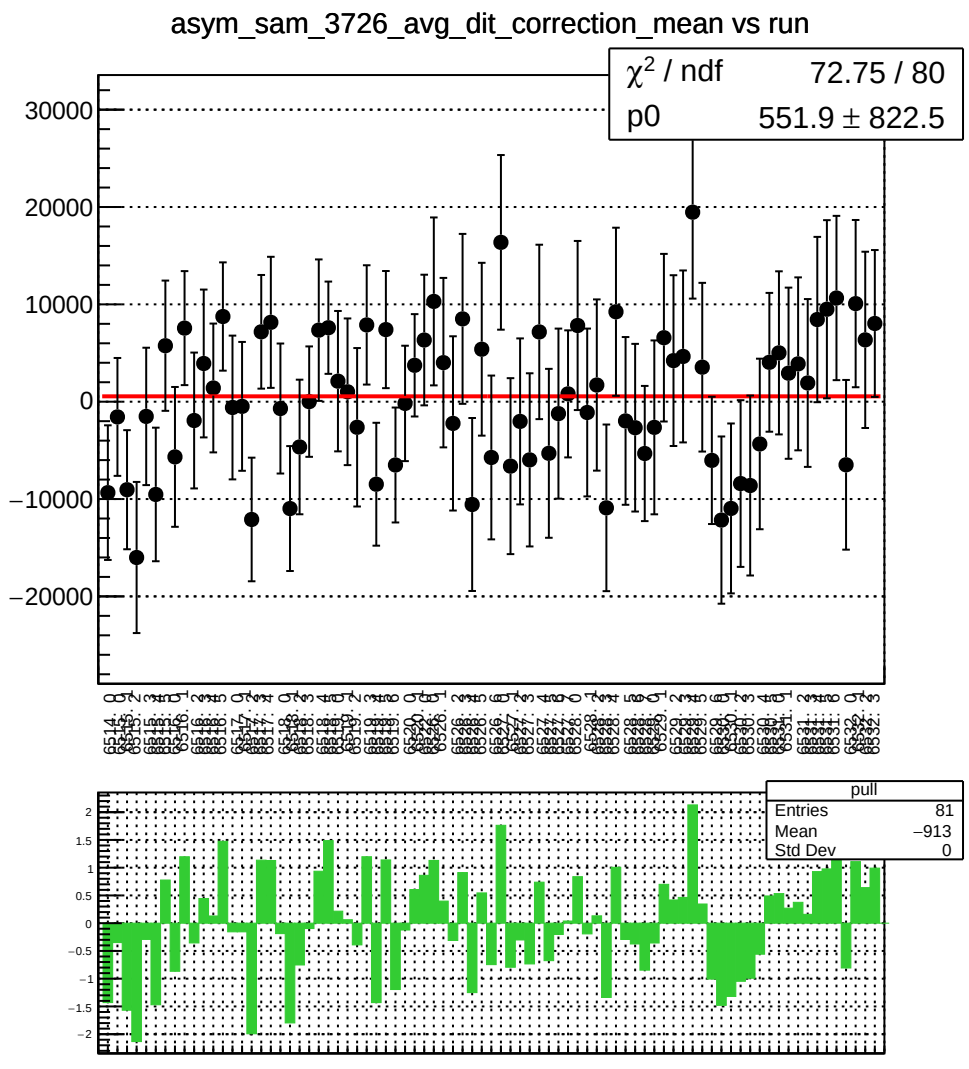

asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 72.99 / 80
p0 418.8 ± 808.8
30000
20000
10000
0
−10000
−20000
pull
Entries 81
Mean 976.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

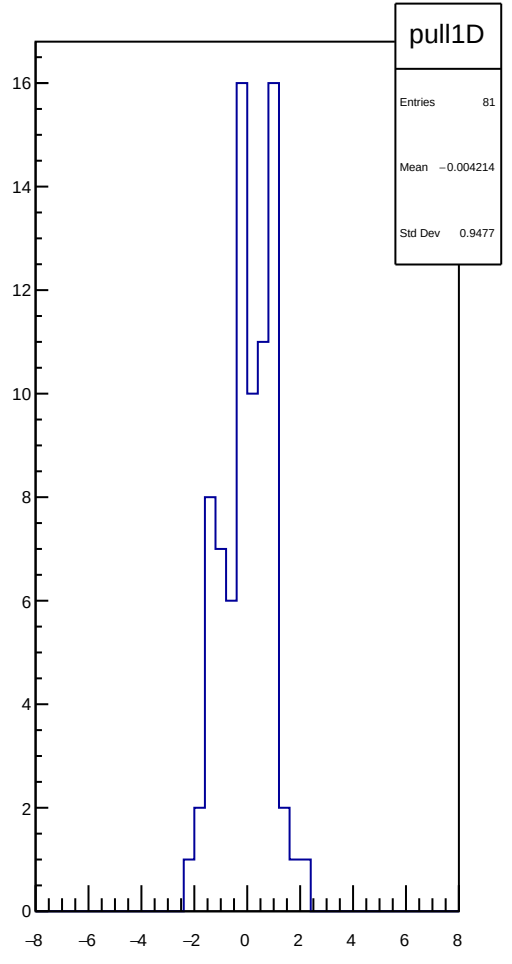

pull1D
Entries 81
Mean 0.005089
Std Dev 0.9493
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

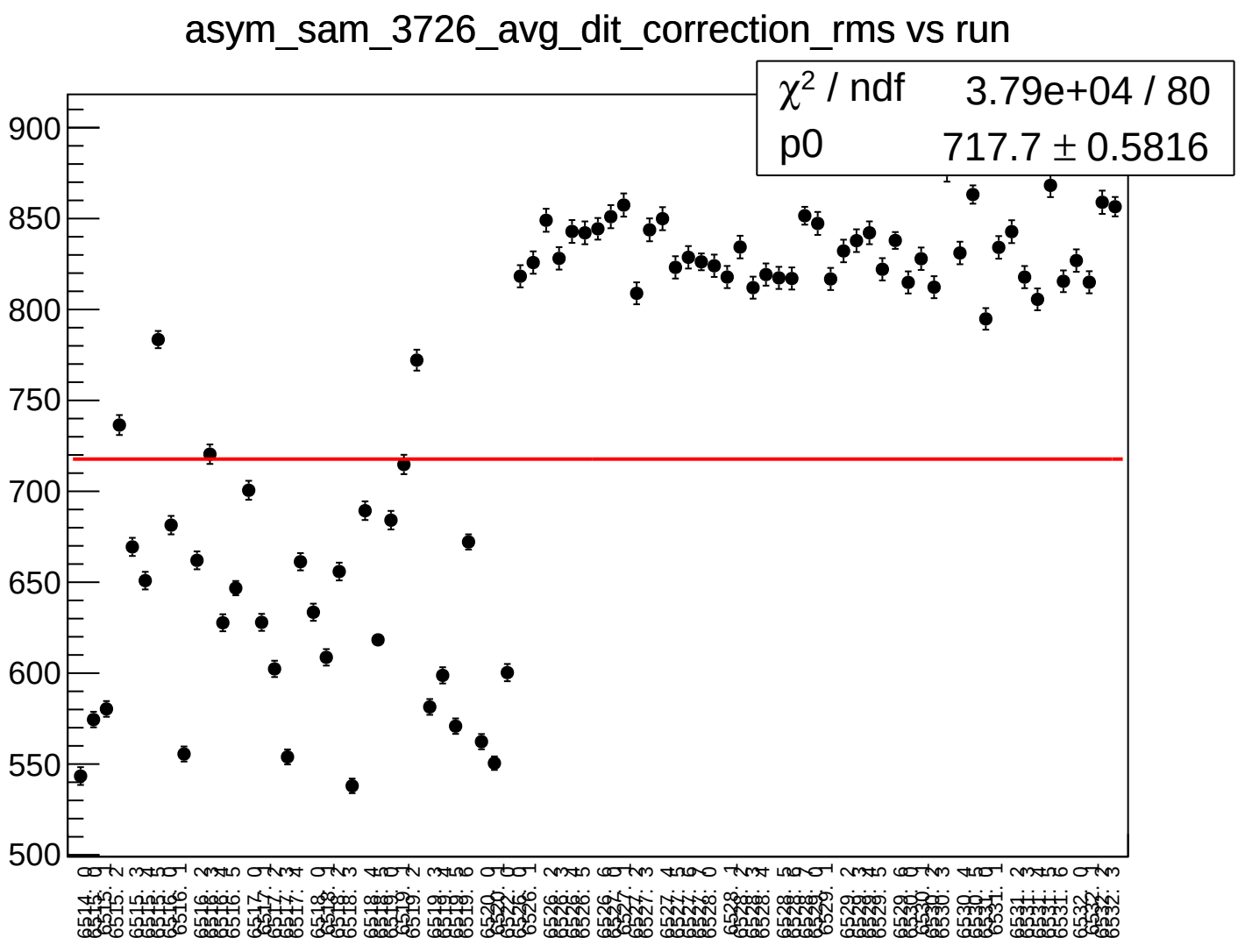

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 5.318e+04 / 80
p0 702.2 ± 0.5719
900
800
700
600
500

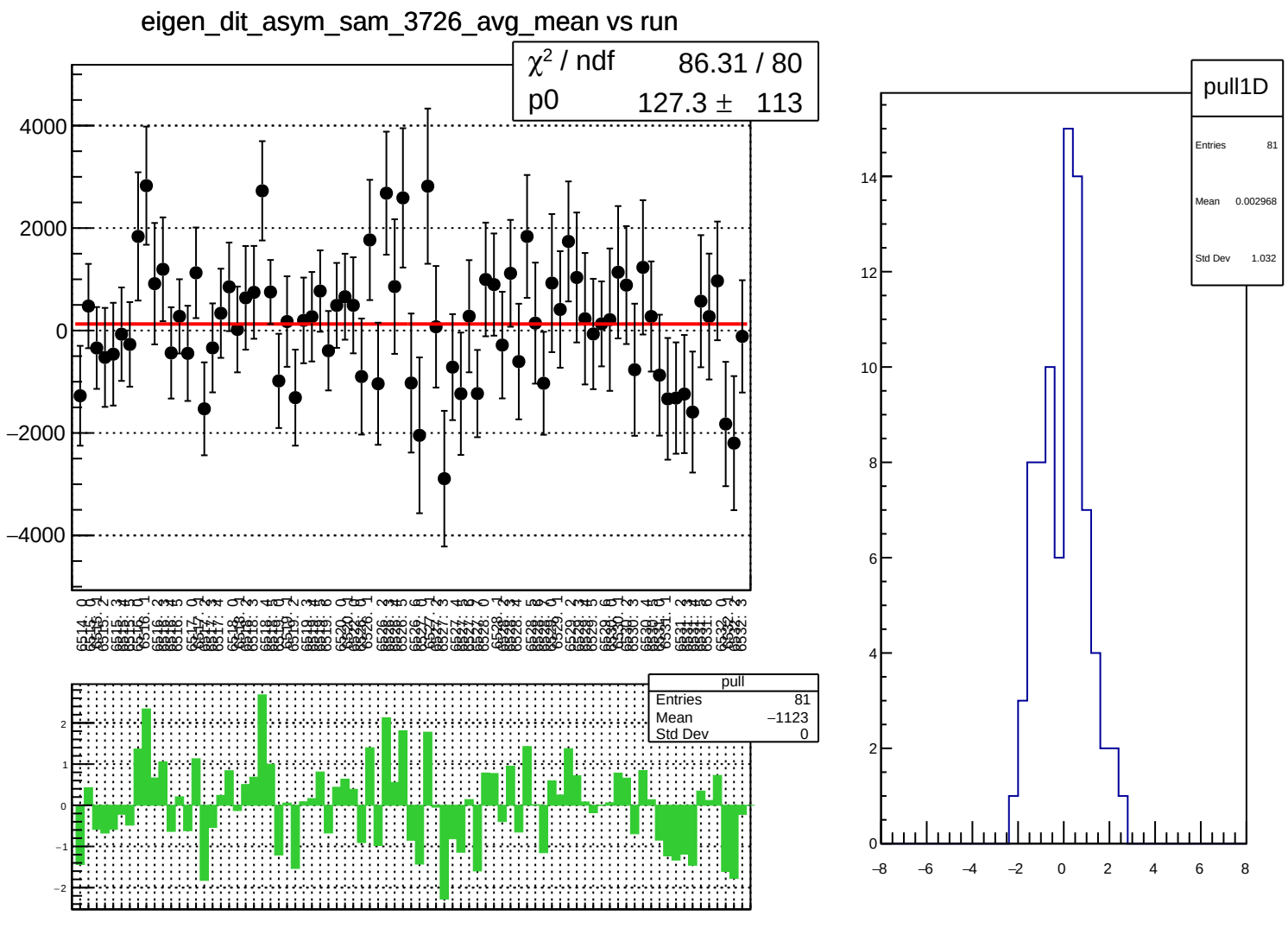

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 86.31 / 80
p0 127.3 ± 113
4000
2000
0
−2000
−4000
pull
Entries 81
Mean −1123
Std Dev 0
pull1D
Entries 81
Mean 0.002968
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

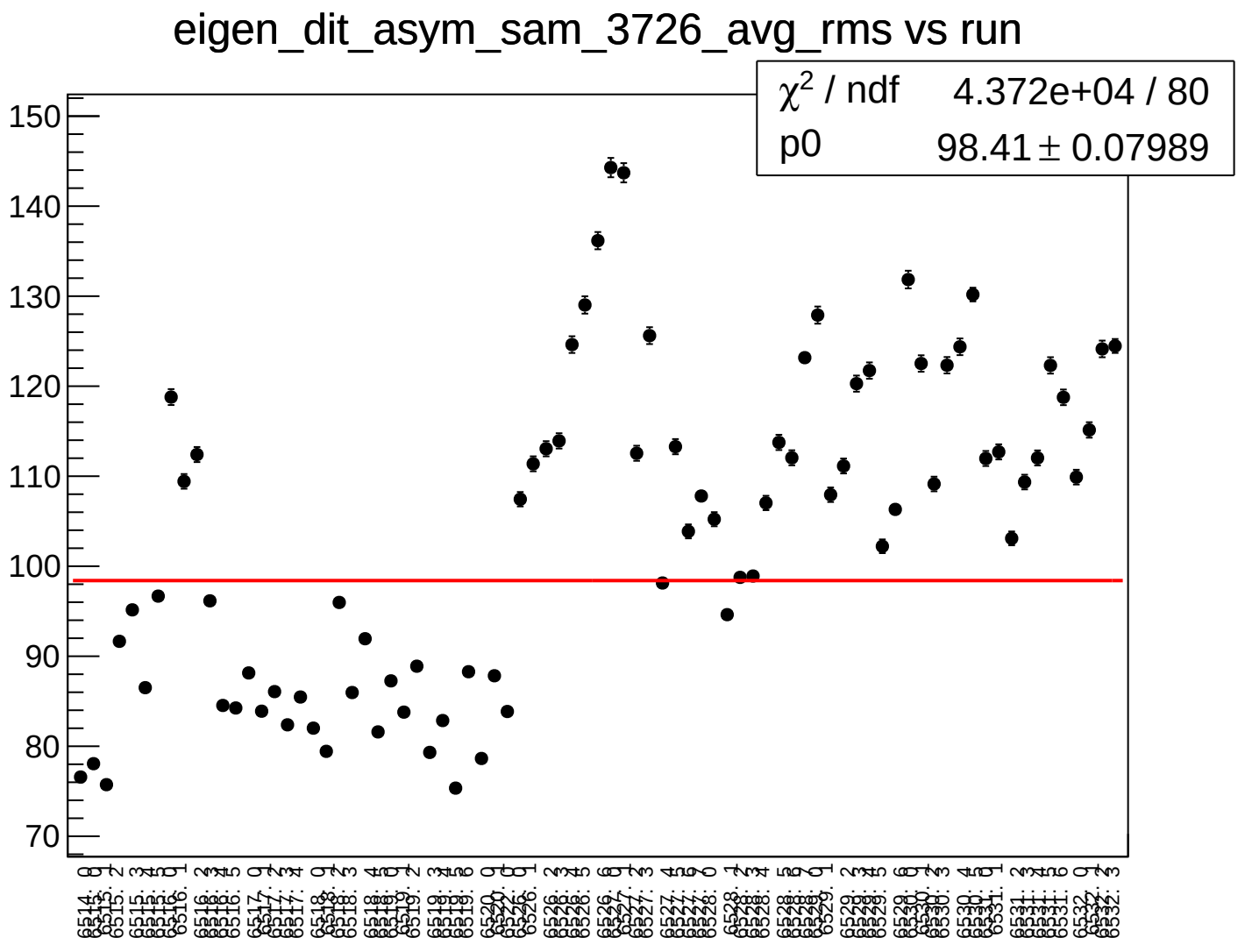

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 4.372e+04 / 80
p0 98.41 ± 0.07989
150
140
130
120
110
100
90
80
70

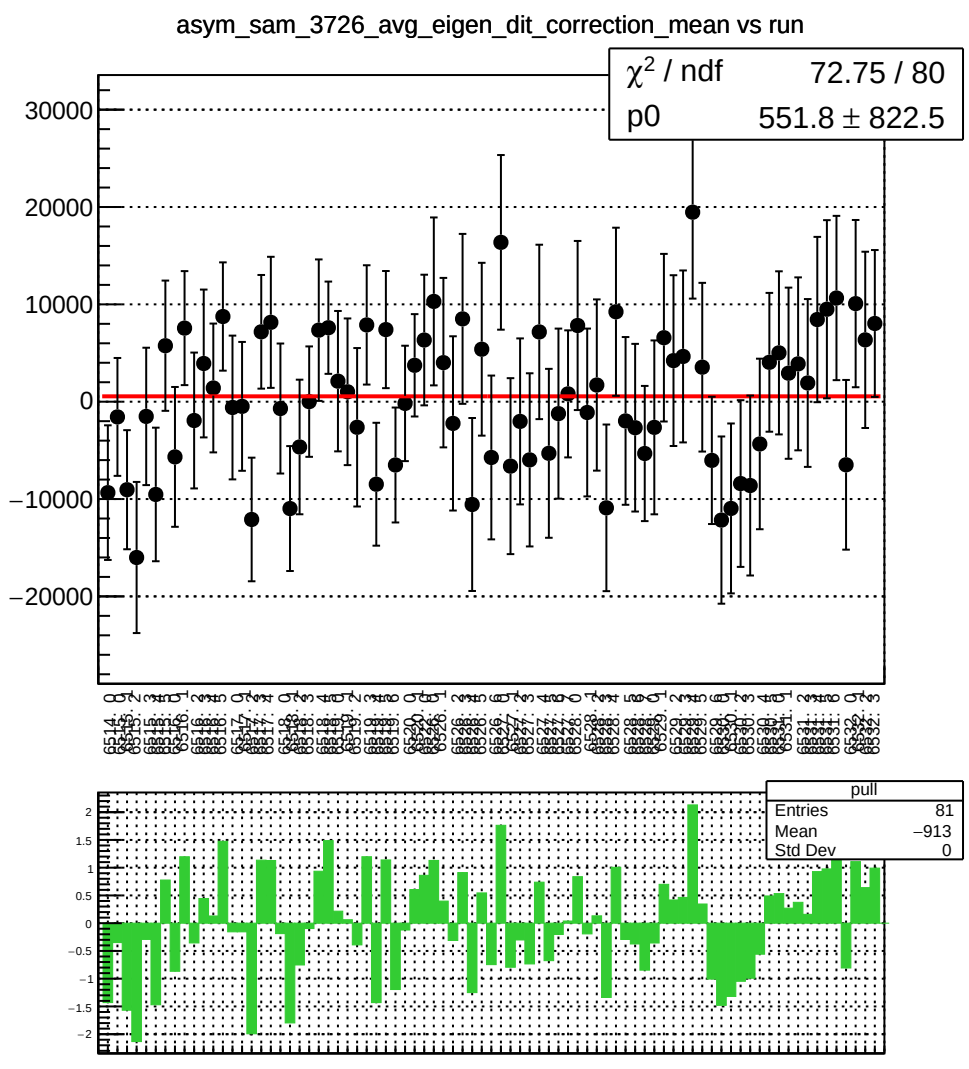

asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 72.75 / 80
p0 551.9 ± 822.5
30000
20000
10000
0
−10000
−20000
pull
Entries 81
Mean −913
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

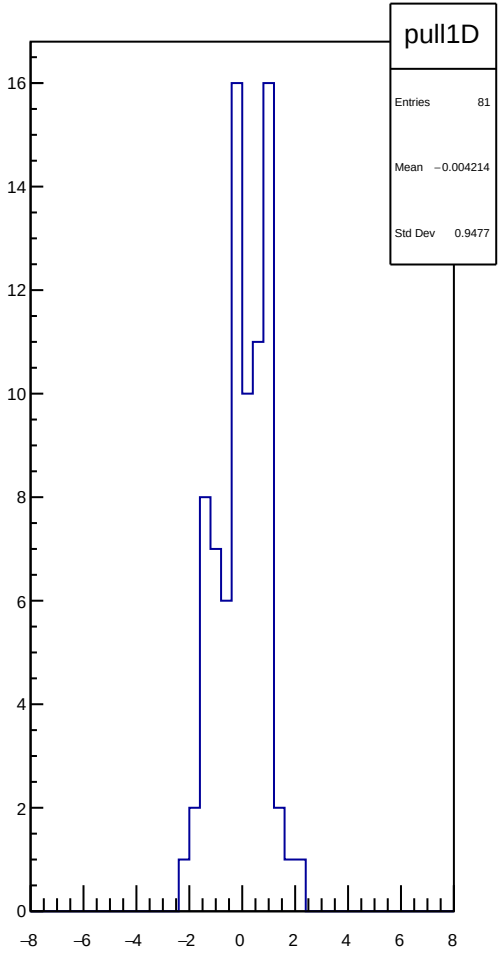

pull1D
Entries 81
Mean −0.004214
Std Dev 0.9477
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

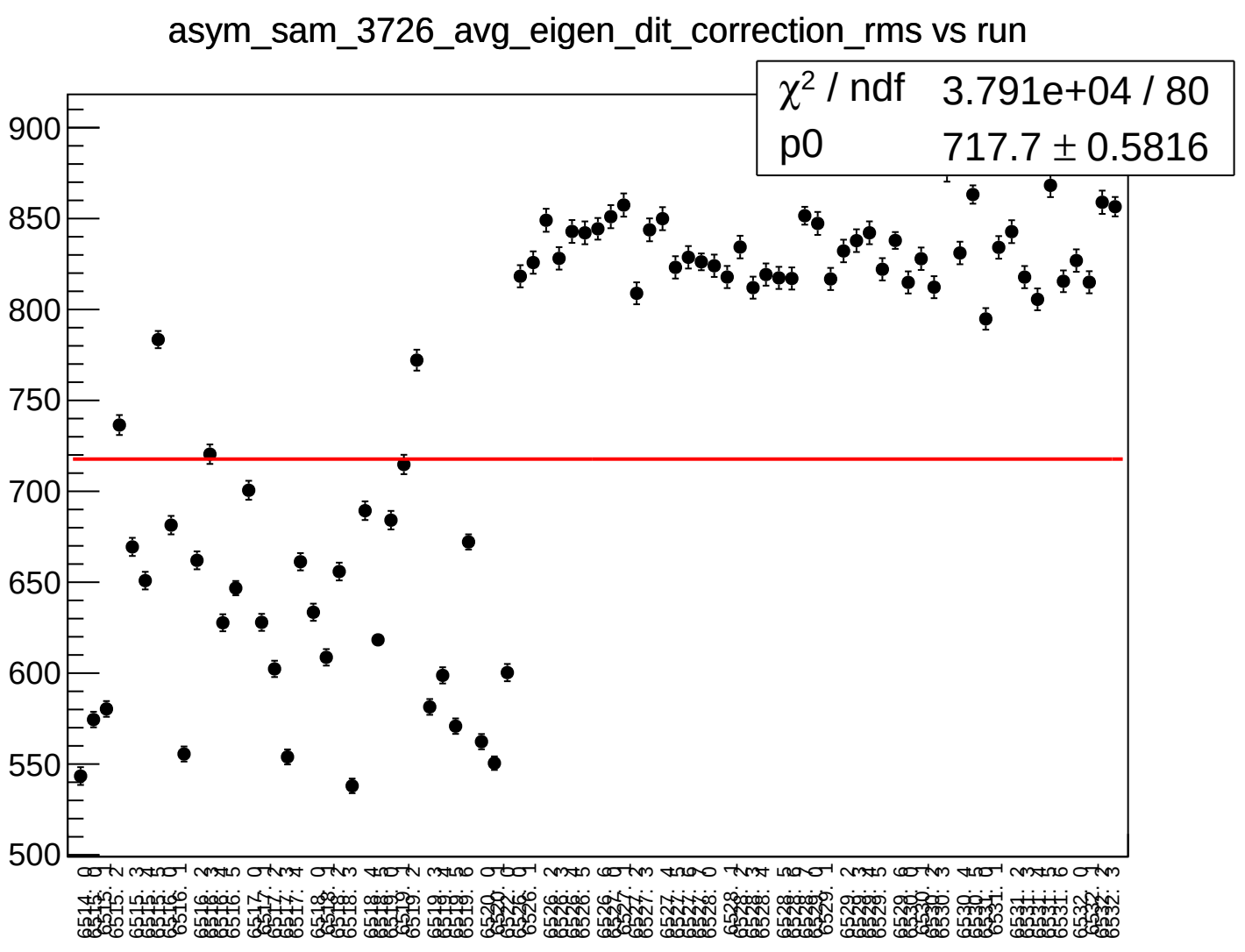

asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 3.79e+04 / 80
p0 717.7 ± 0.5816
900
850
800
750
700
650
600
550
500

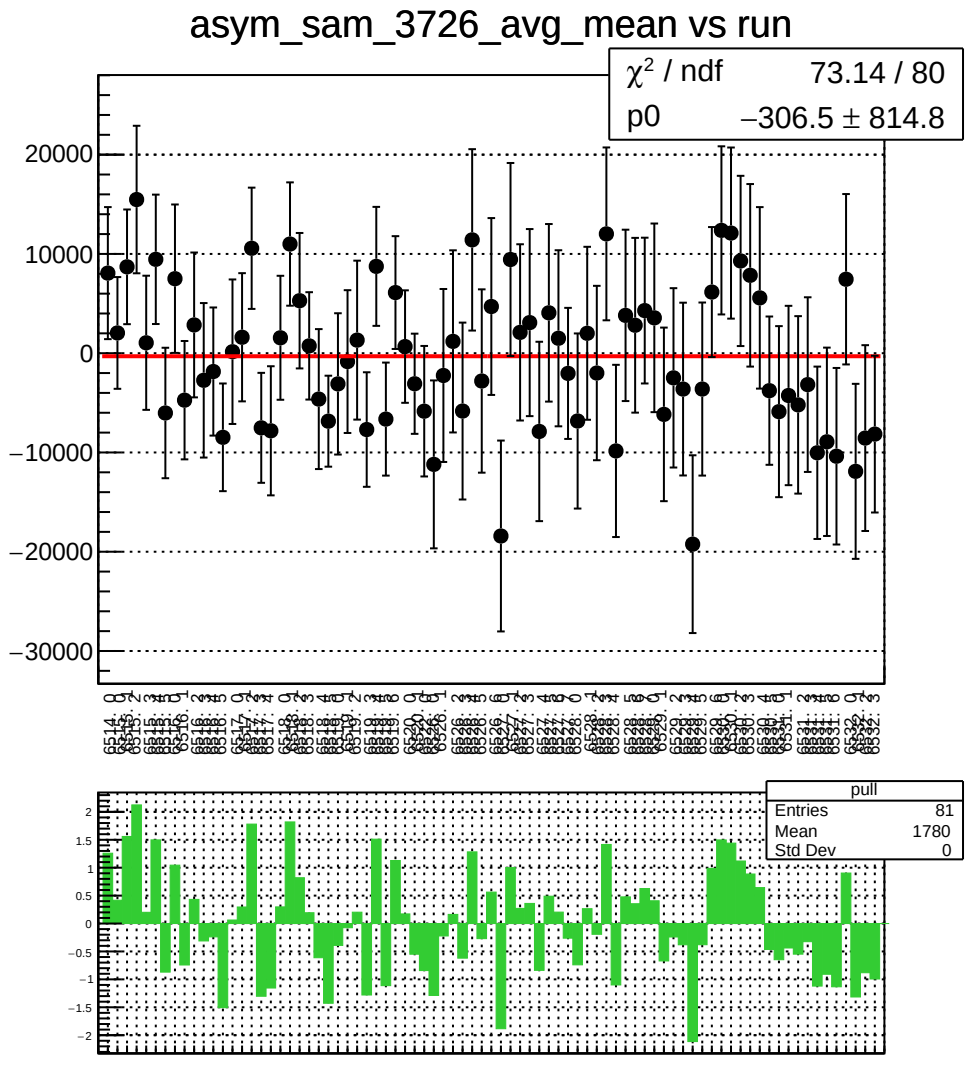

eigen_dit_asym_sam_3726_avg_mean vs run
χ² / ndf 86.31 / 80
p0 127.3 ± 113
4000
2000
0
−2000
−4000
pull
Entries 81
Mean −1123
Std Dev 0
pull1D
Entries 81
Mean 0.002968
Std Dev 1.032

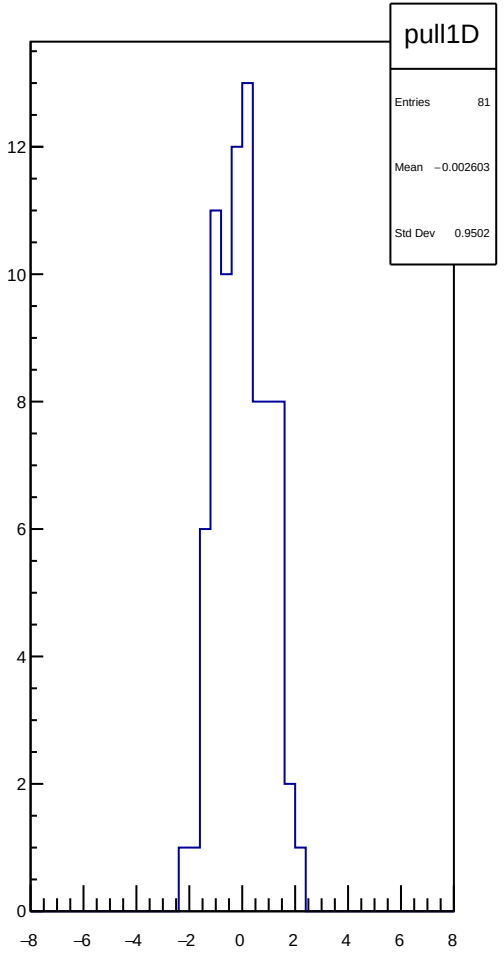

eigen_dit_asym_sam_3726_avg_rms vs run
χ² / ndf 4.372e+04 / 80
p0 98.41 ± 0.07989
150
140
130
120
110
100
90
80
70

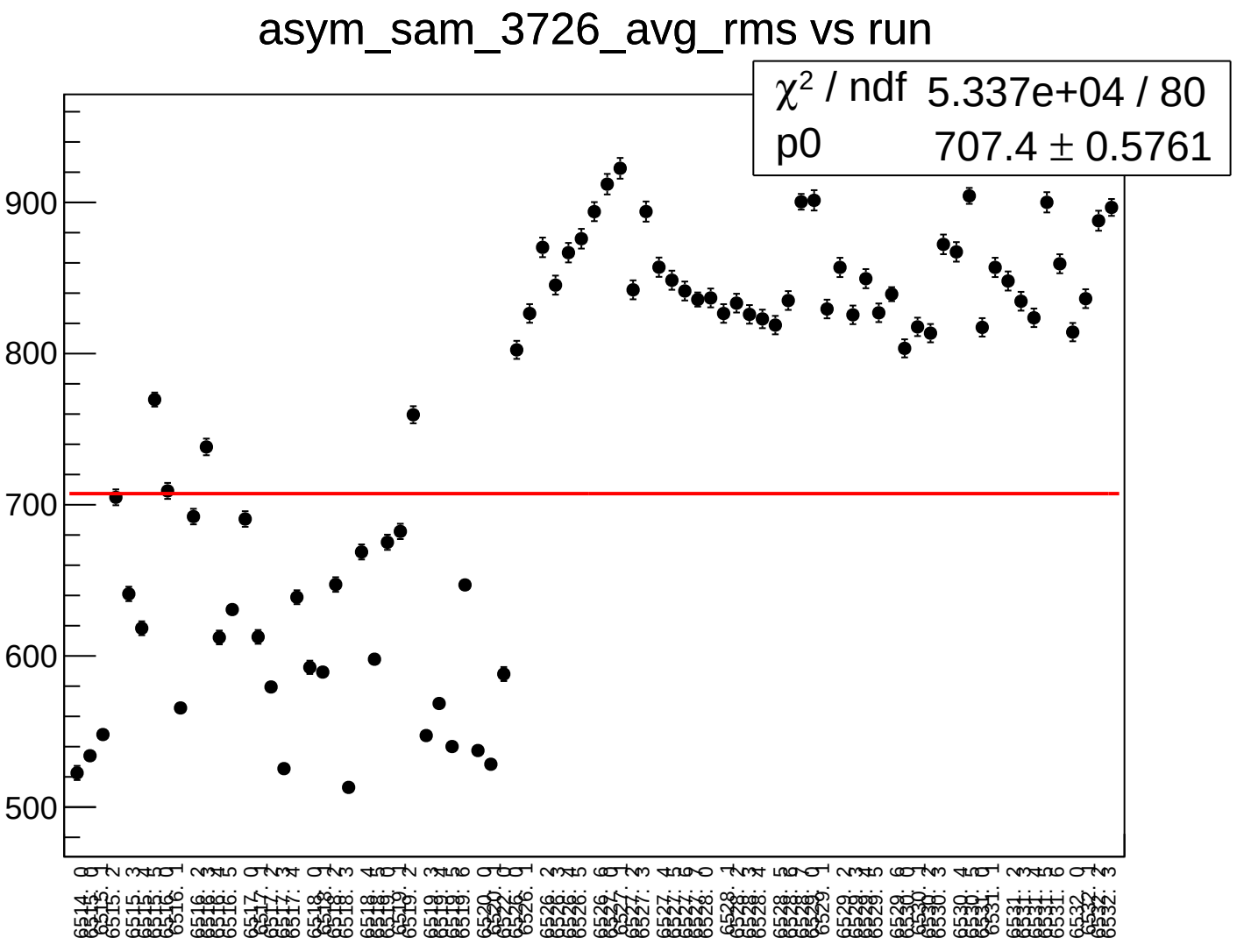

asym_sam_3726_avg_eigen_dit_correction_mean vs run
χ² / ndf 72.75 / 80
p0 551.8 ± 822.5
30000
20000
10000
0
−10000
−20000
pull
Entries 81
Mean −913
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

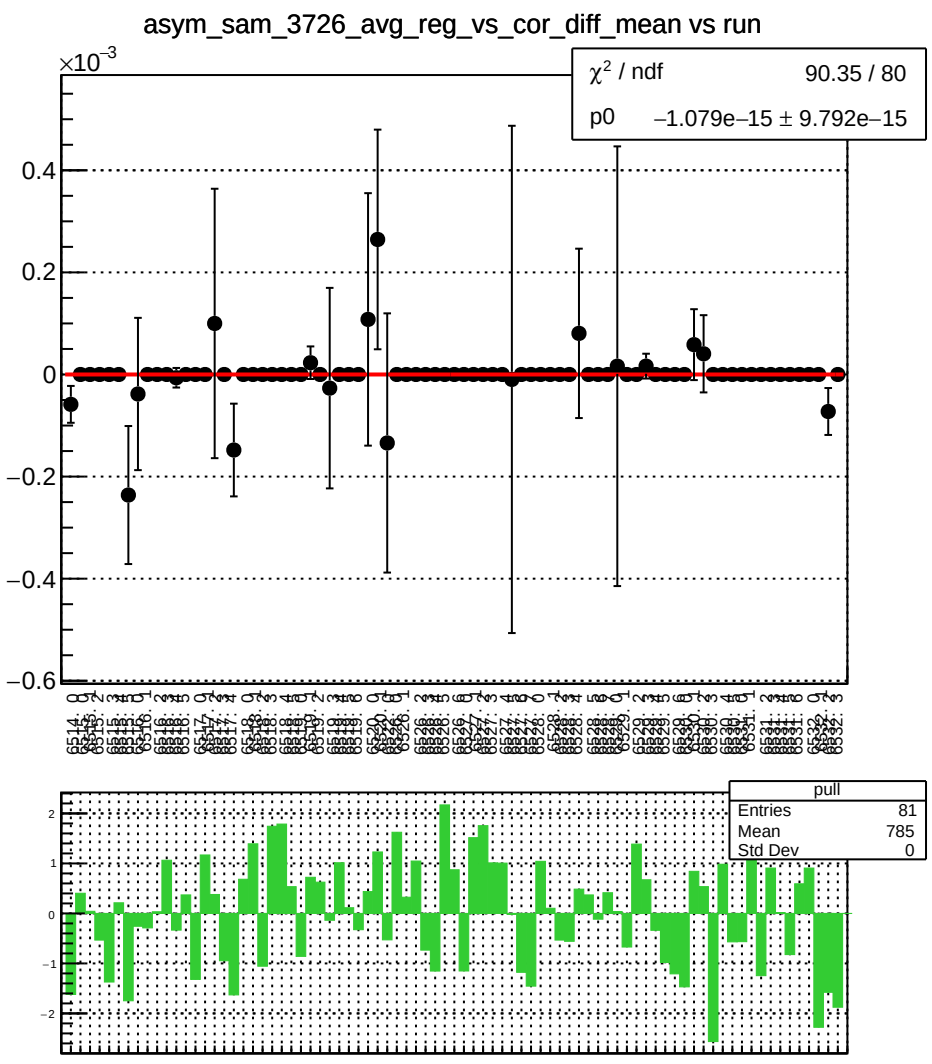

pull1D
Entries 81
Mean −0.004214
Std Dev 0.9477
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

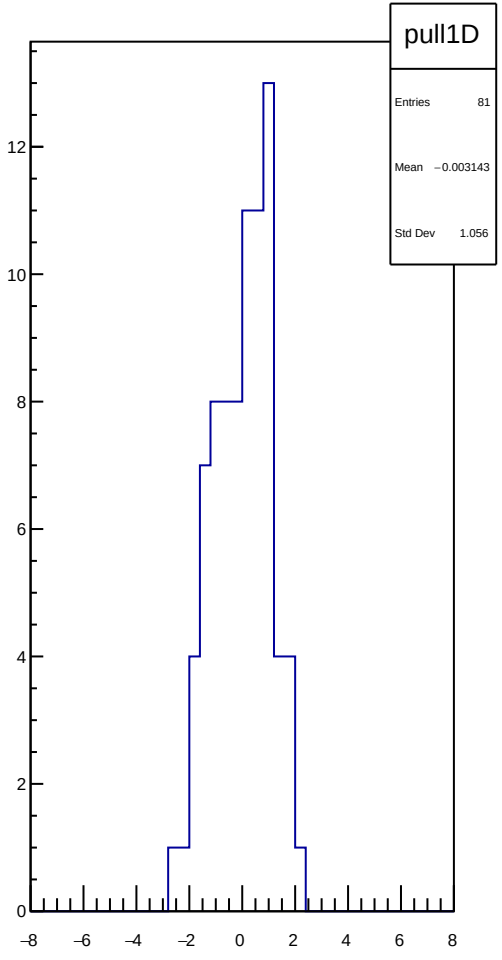

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.791e+04 / 80
p0 717.7 ± 0.5816
900
850
800
750
700
650
600
550
500

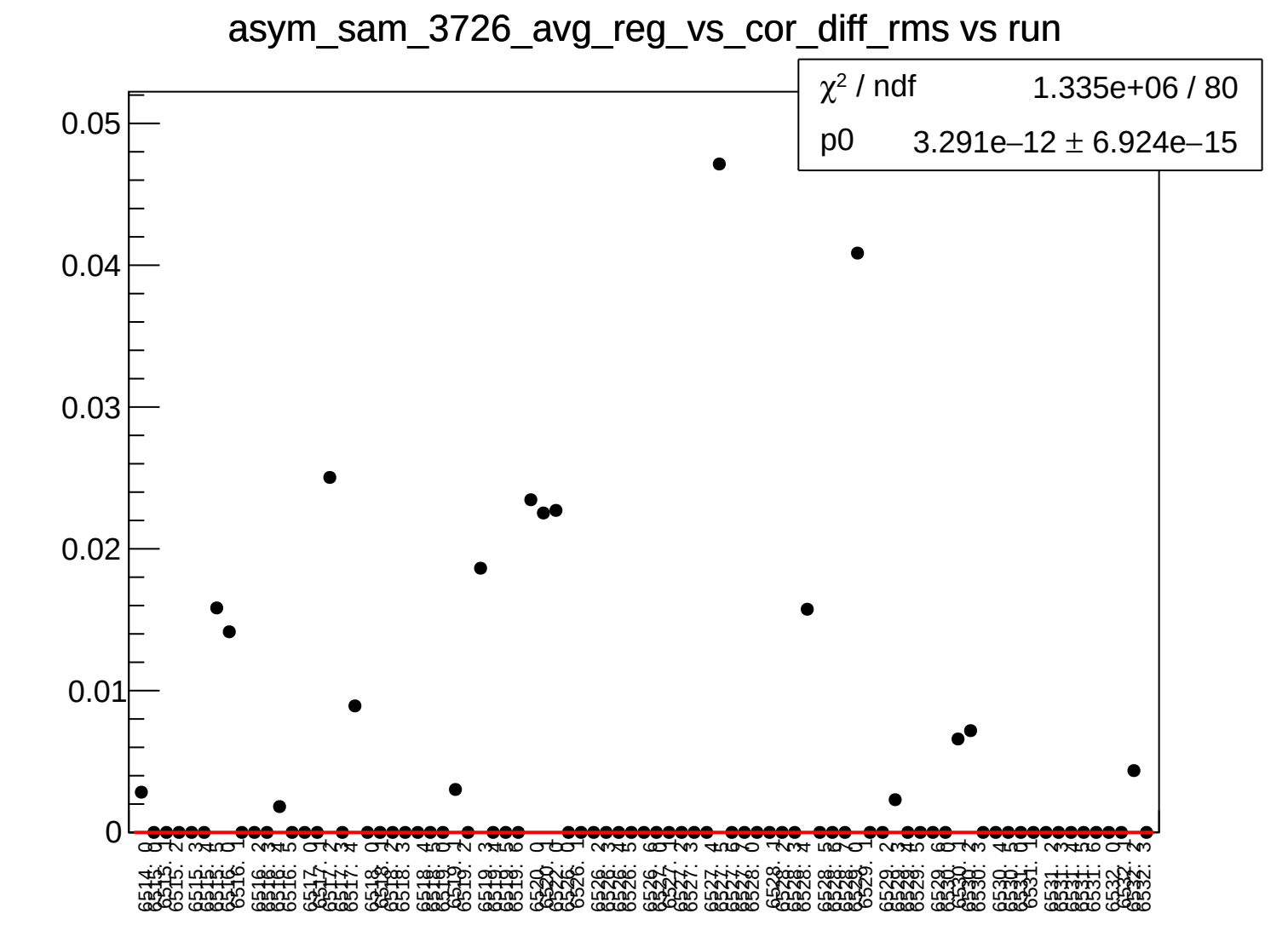

asym_sam_3726_avg_mean vs run
χ² / ndf 73.14 / 80
p0 −306.5 ± 814.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean 1780
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

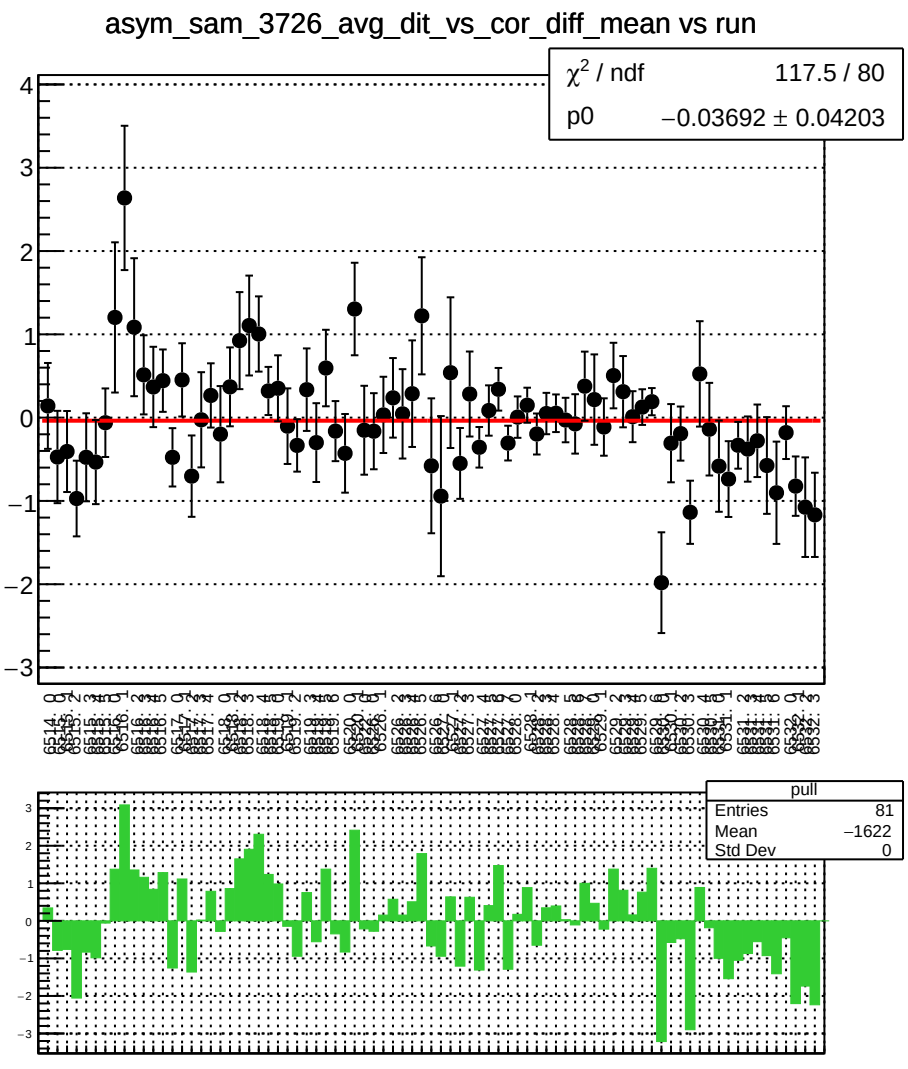

pull1D
Entries 81
Mean −0.002603
Std Dev 0.9502
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

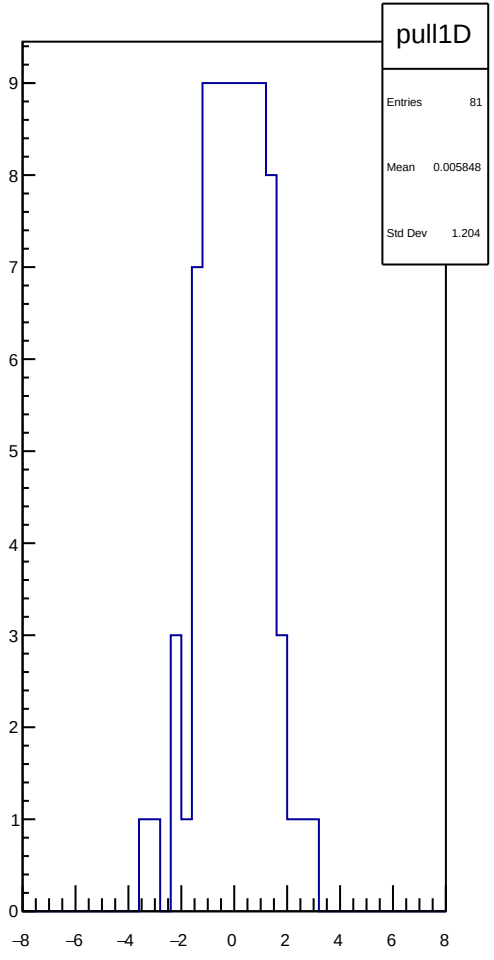

asym_sam_3726_avg_rms vs run
χ² / ndf 5.337e+04 / 80
p0 707.4 ± 0.5761
900
800
700
600
500

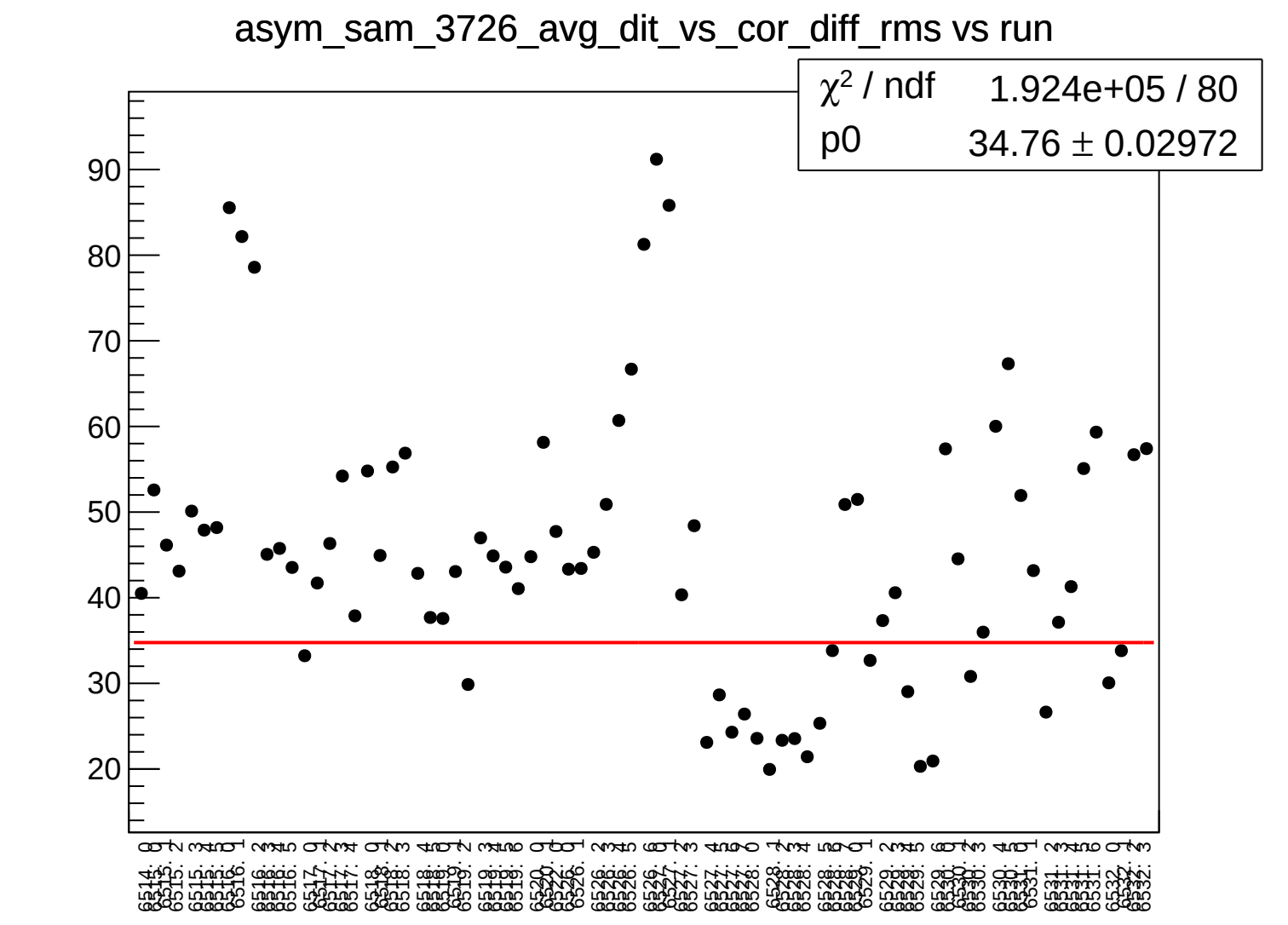

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 90.35 / 80
p0 −1.079e−15 ± 9.792e−15
pull
Entries 81
Mean 785
Std Dev 0

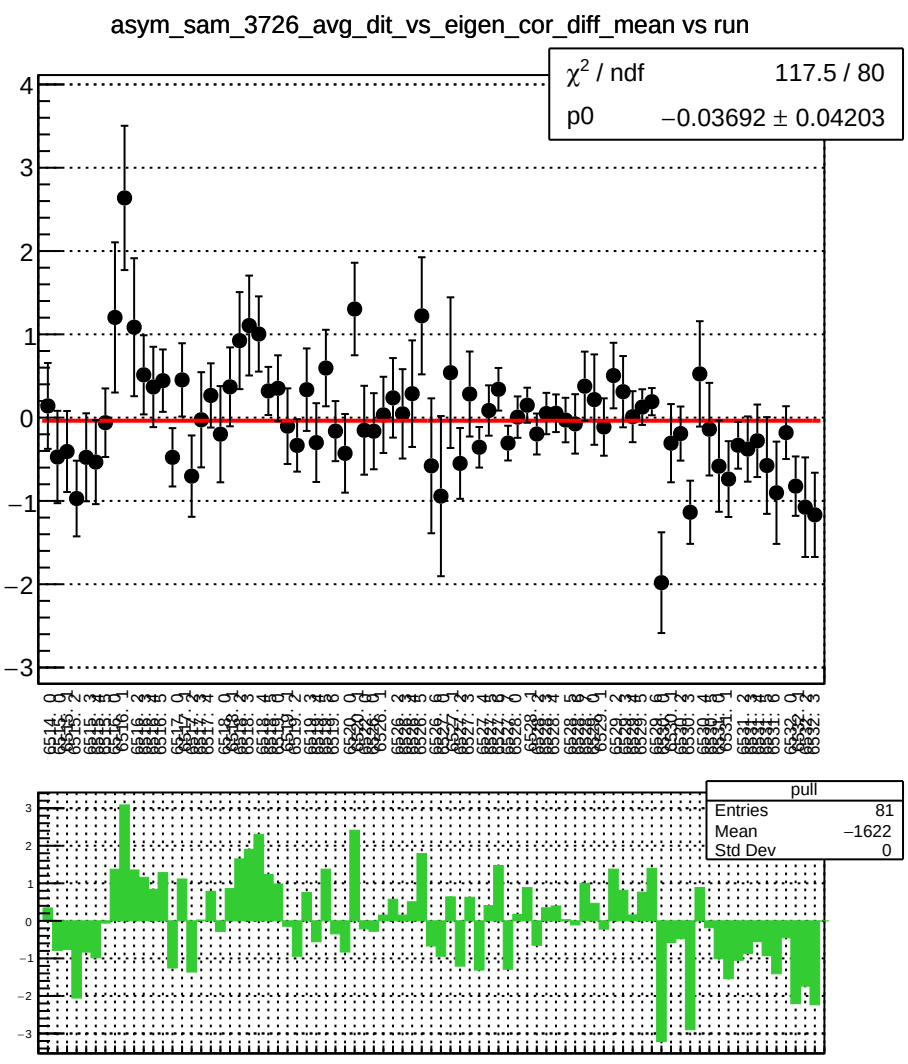

pull1D
Entries 81
Mean −0.003143
Std Dev 1.056

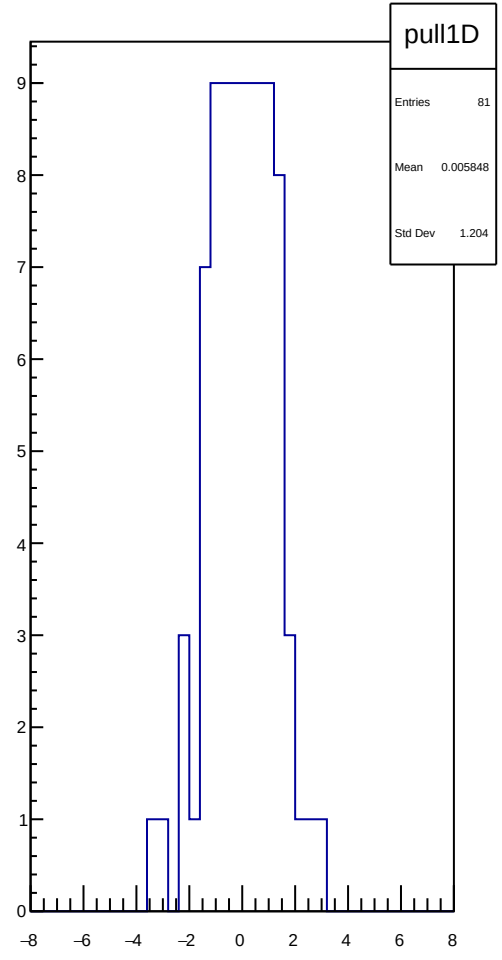

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.335e+06 / 80
p0 3.291e−12 ± 6.924e−15
0.05
0.04
0.03
0.02
0.01
0

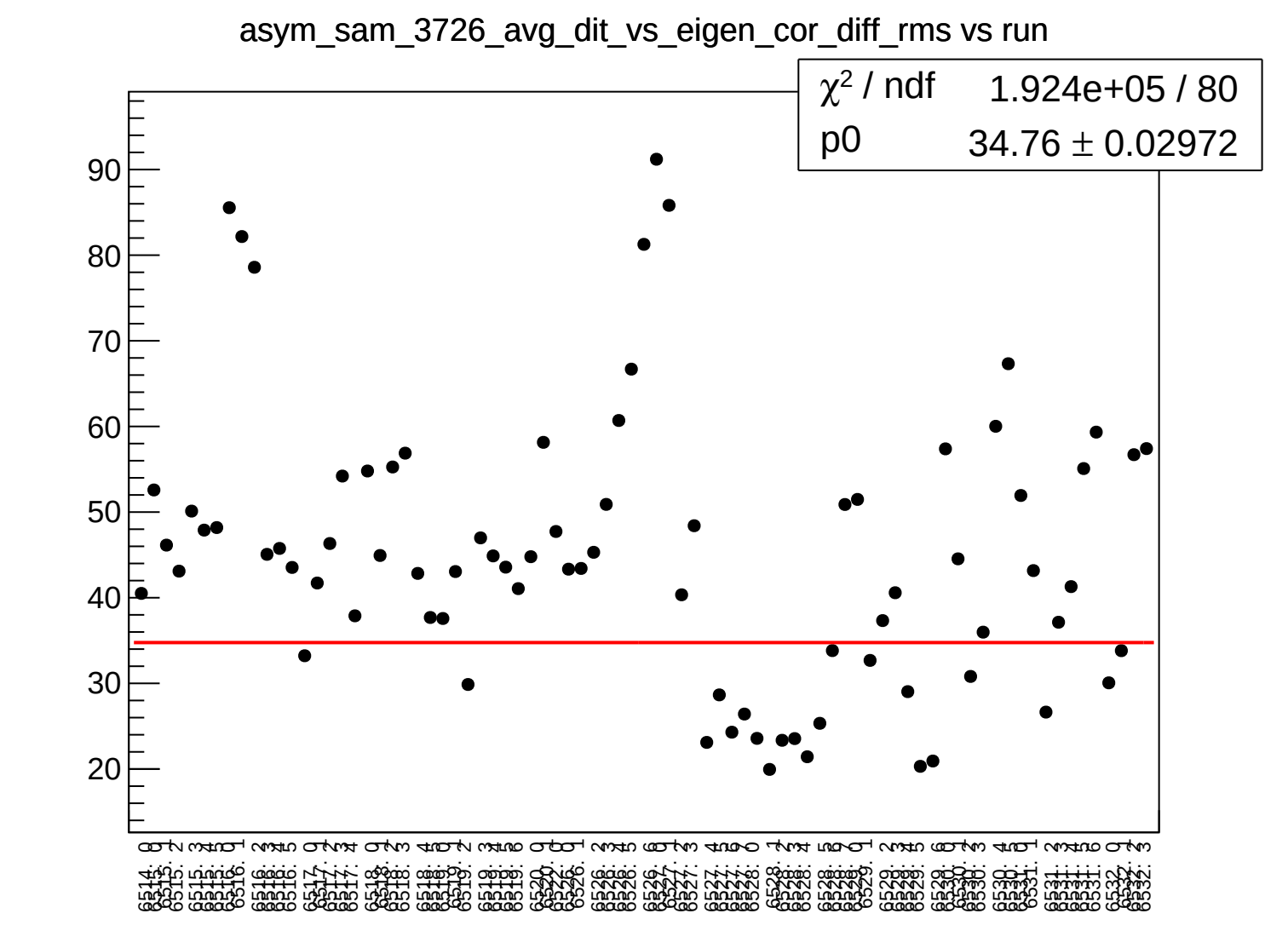

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 117.5 / 80
p0 −0.03692 ± 0.04203
pull
Entries 81
Mean −1622
Std Dev 0

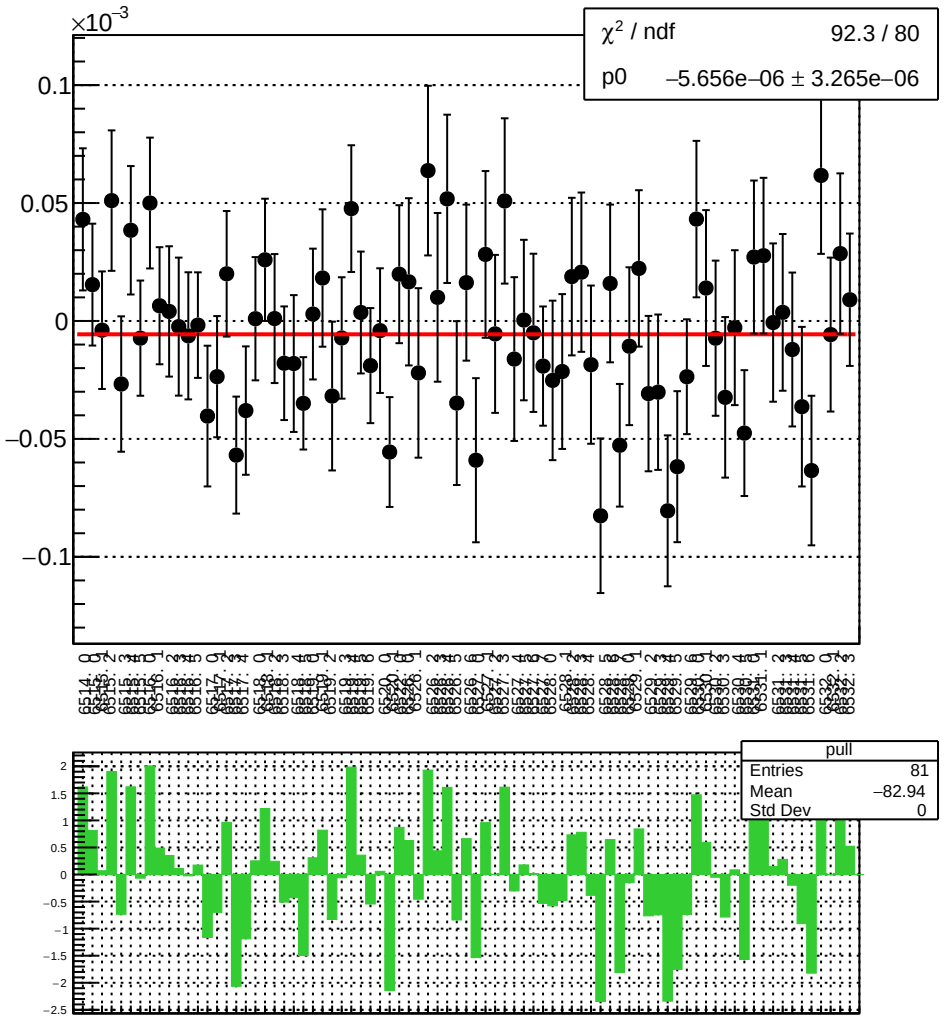

pull1D
Entries 81
Mean 0.005848
Std Dev 1.204

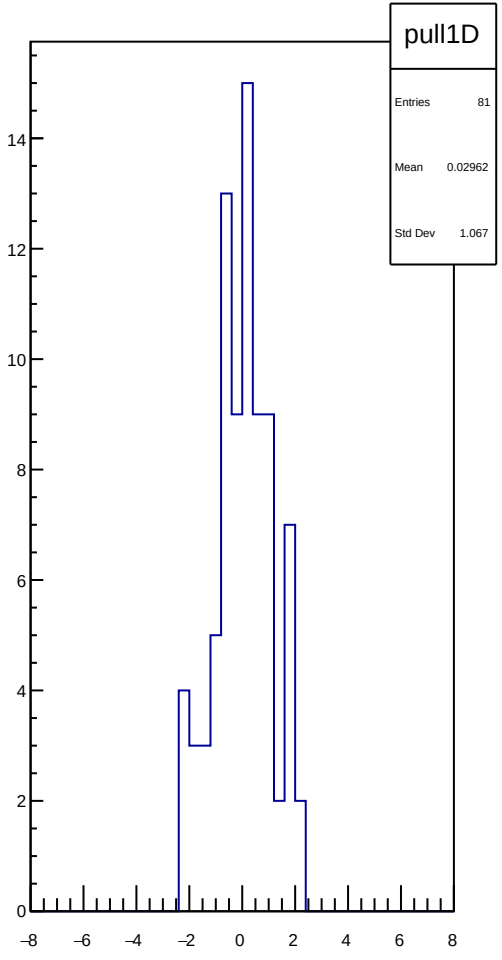

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.924e+05 / 80
p0 34.76 ± 0.02972
90
80
70
60
50
40
30
20

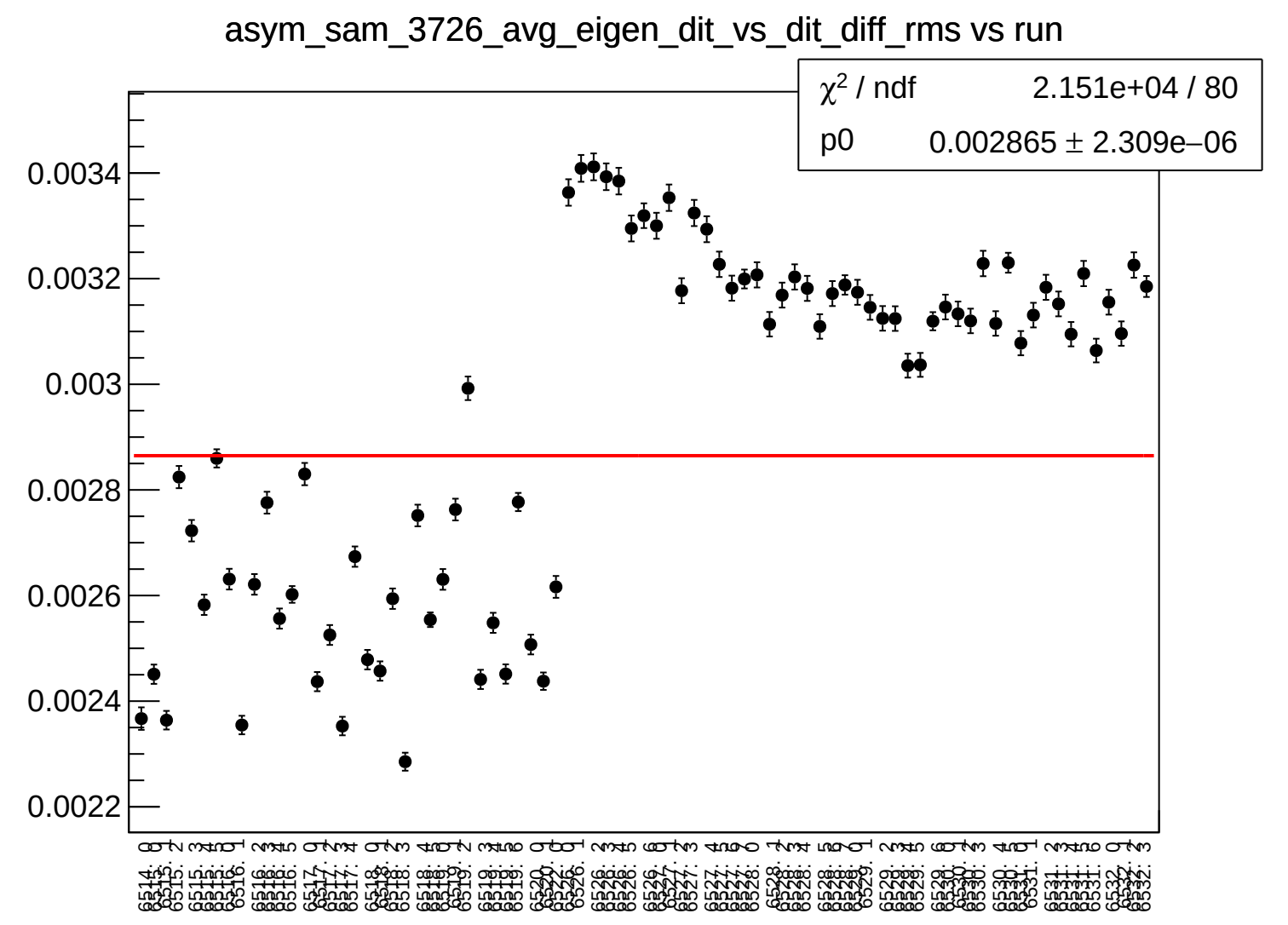

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 117.5 / 80
p0 −0.03692 ± 0.04203
pull
Entries 81
Mean −1622
Std Dev 0

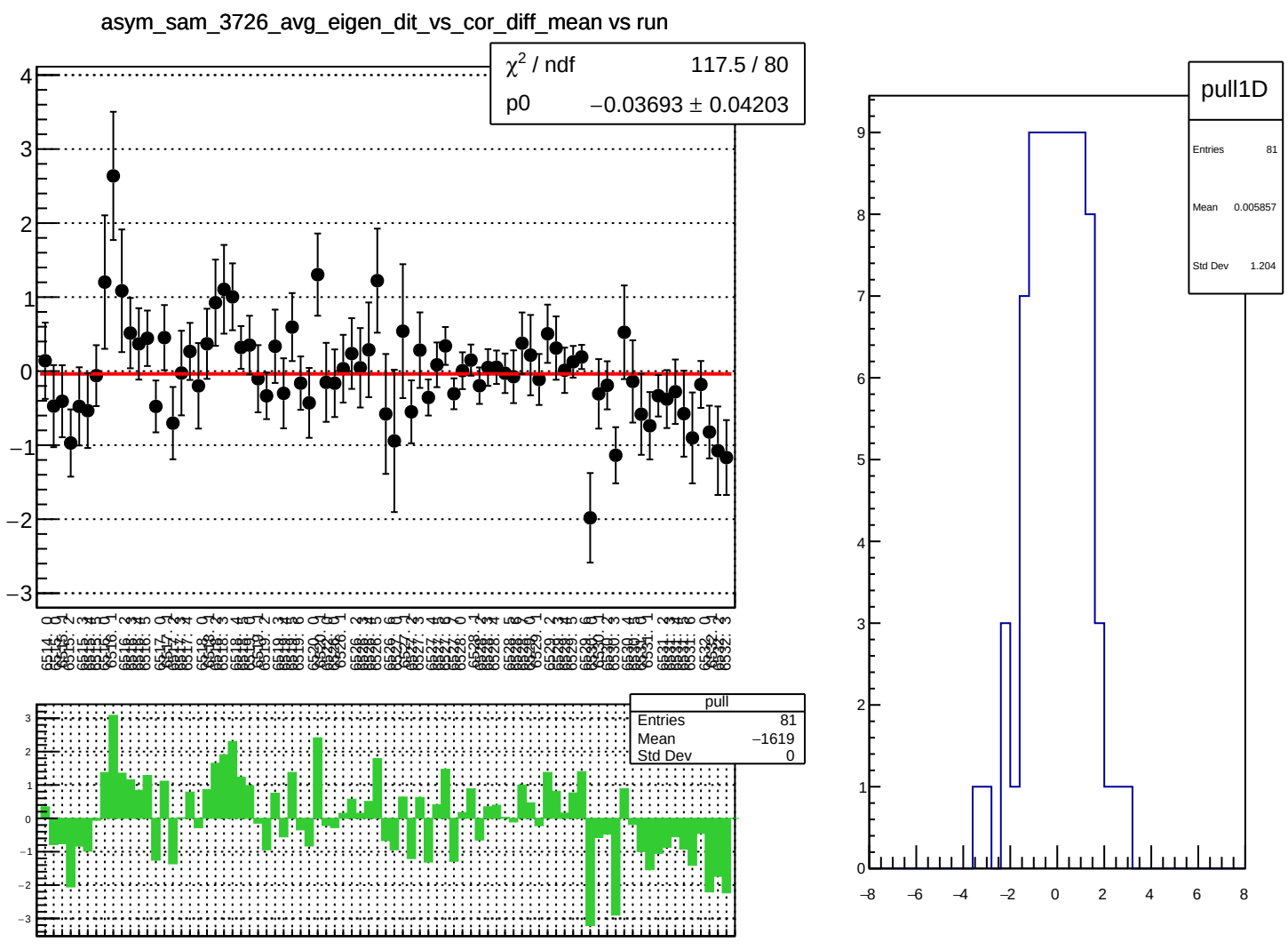

pull1D
Entries 81
Mean 0.005848
Std Dev 1.204

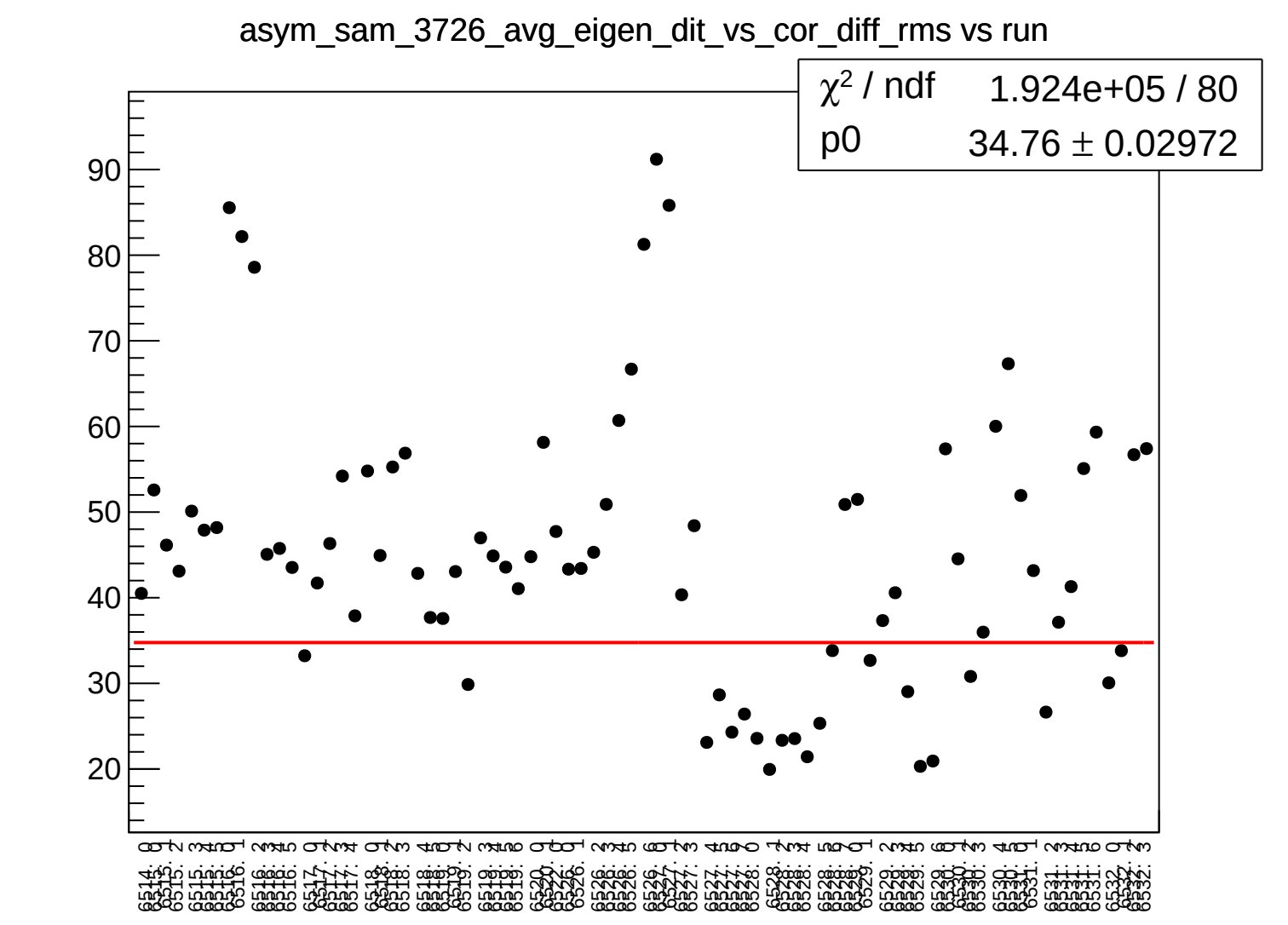

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.924e+05 / 80
p0 34.76 ± 0.02972
90
80
70
60
50
40
30
20

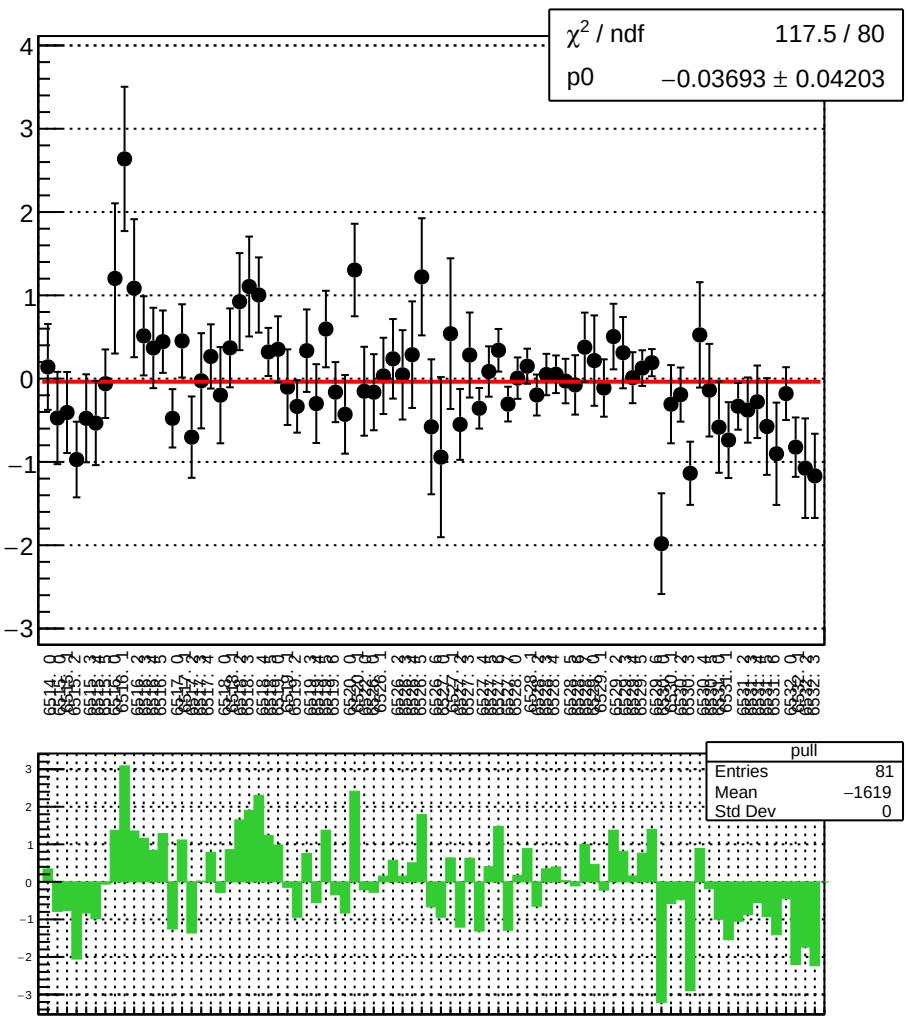

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.3 / 80
p0 −5.656e−06 ± 3.265e−06
pull
Entries 81
Mean −82.94
Std Dev 0

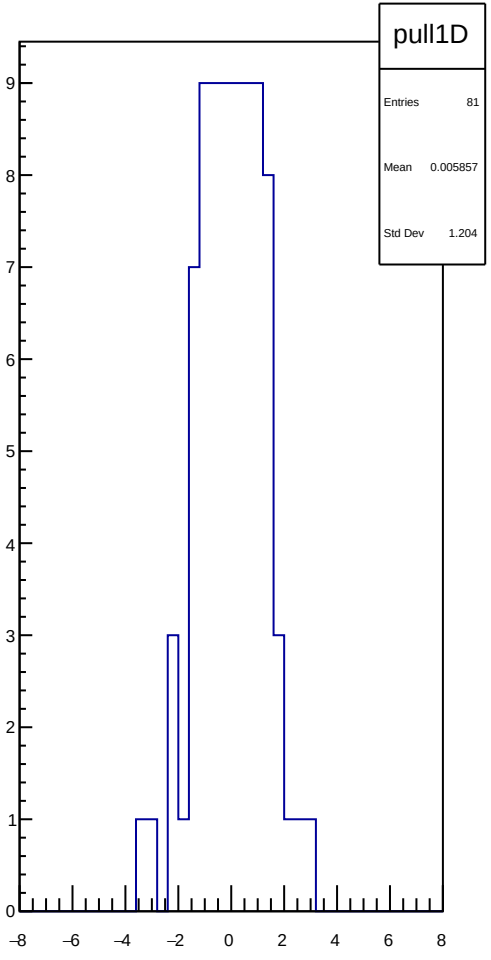

pull1D
Entries 81
Mean 0.02962
Std Dev 1.067

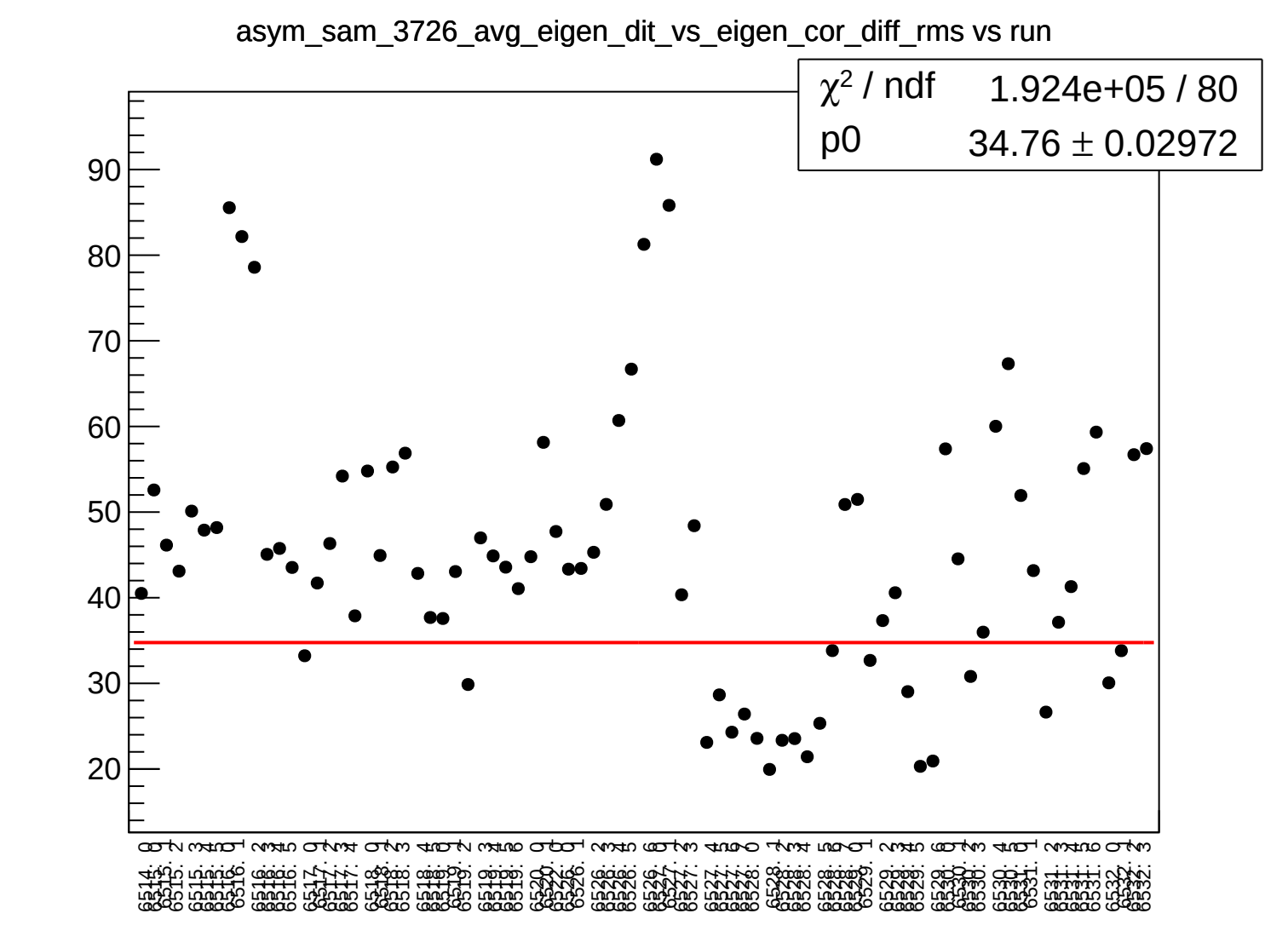

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.151e+04 / 80
p0 0.002865 ± 2.309e−06
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022

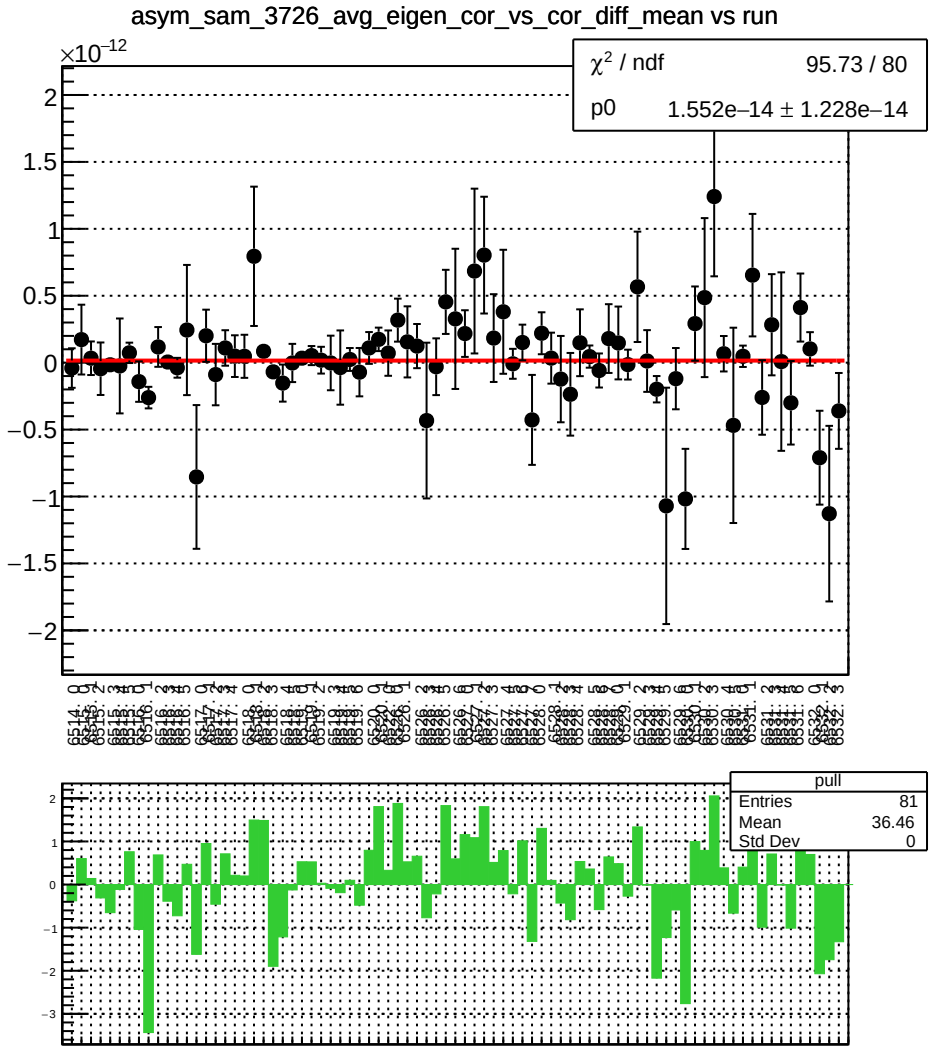

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 117.5 / 80
p0 −0.03693 ± 0.04203
pull
Entries 81
Mean −1619
Std Dev 0
pull1D
Entries 81
Mean 0.005857
Std Dev 1.204

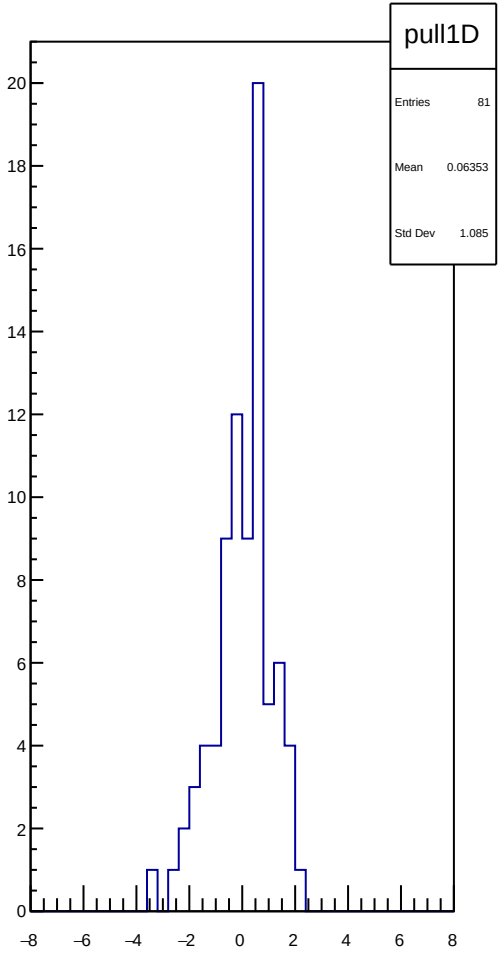

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.924e+05 / 80
p0 34.76 ± 0.02972
90
80
70
60
50
40
30
20

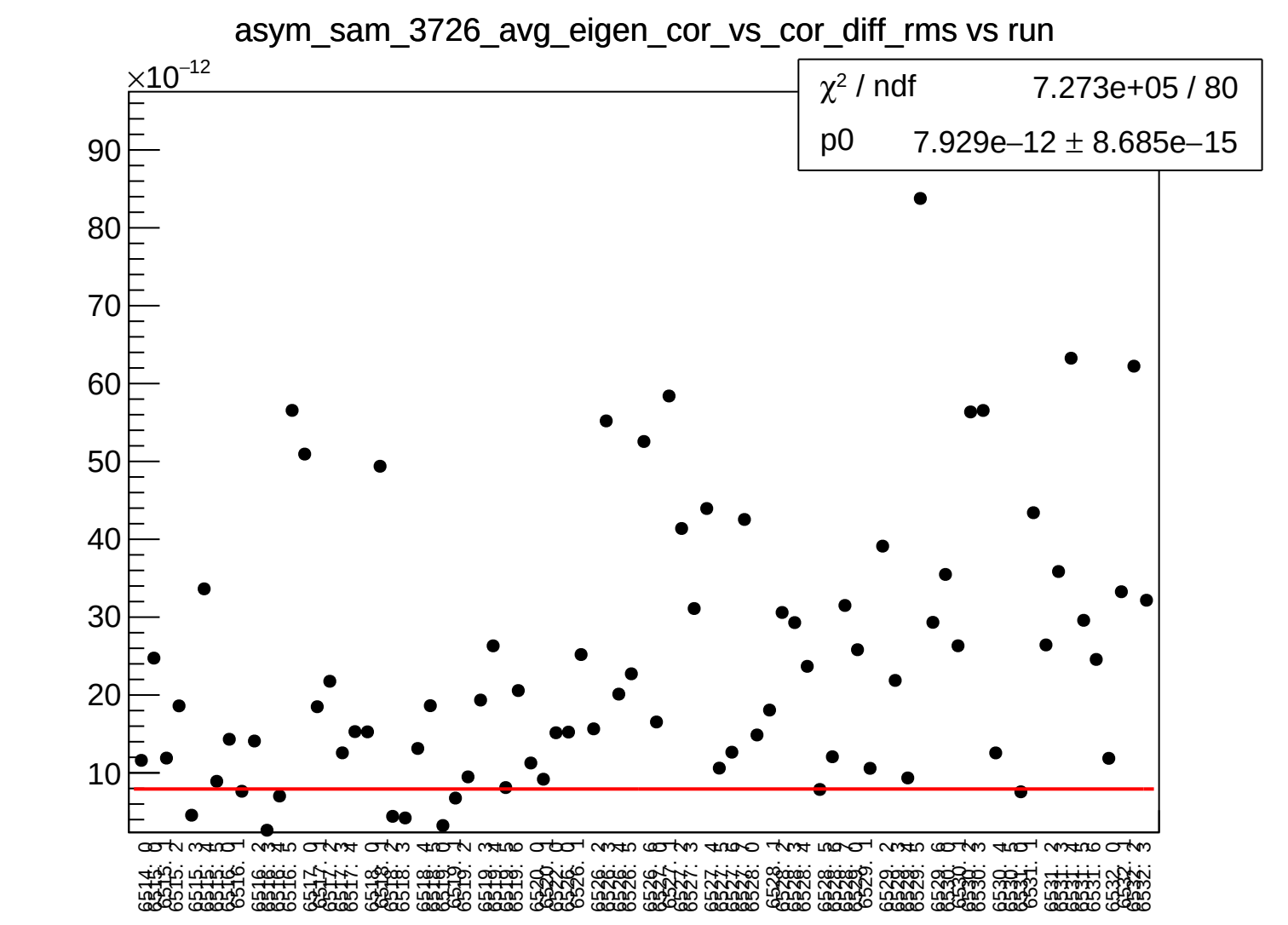

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 117.5 / 80
p0 −0.03693 ± 0.04203
pull
Entries 81
Mean −1619
Std Dev 0

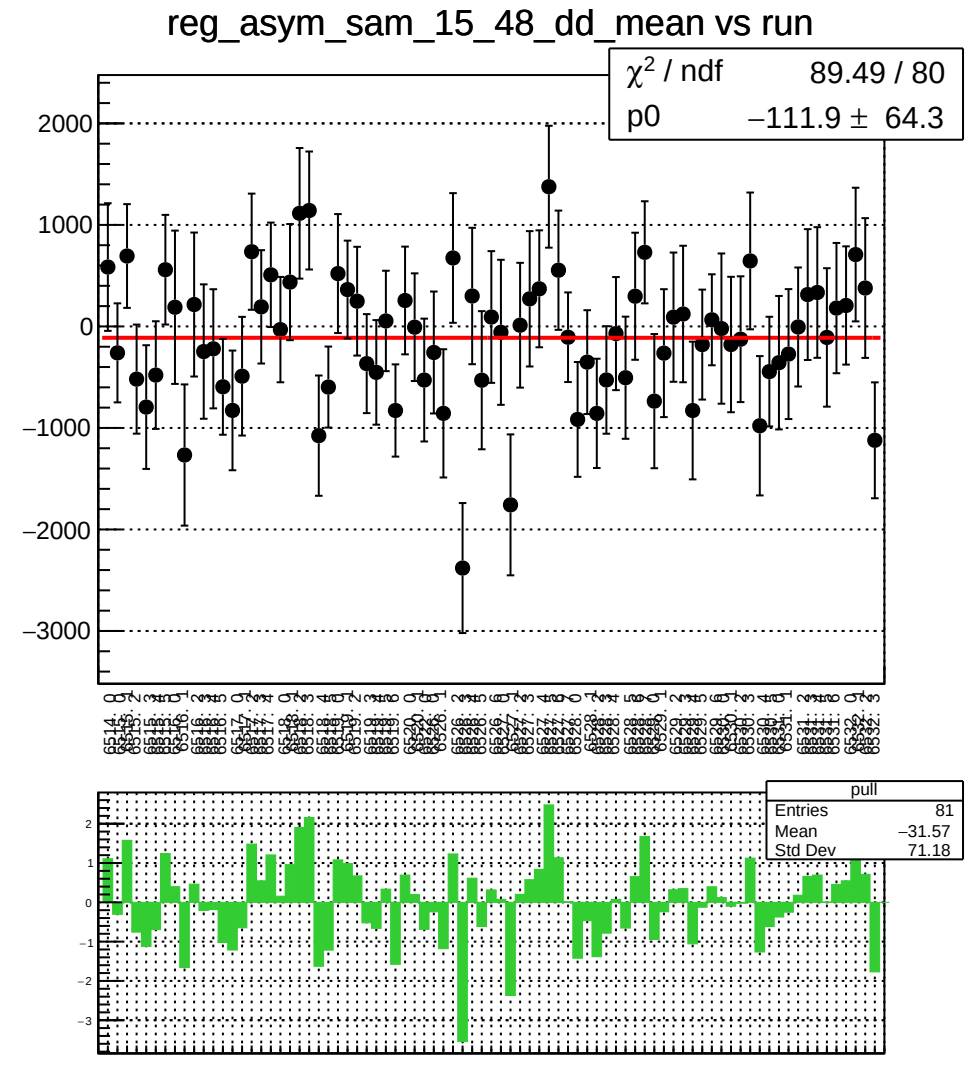

pull1D
Entries 81
Mean 0.005857
Std Dev 1.204

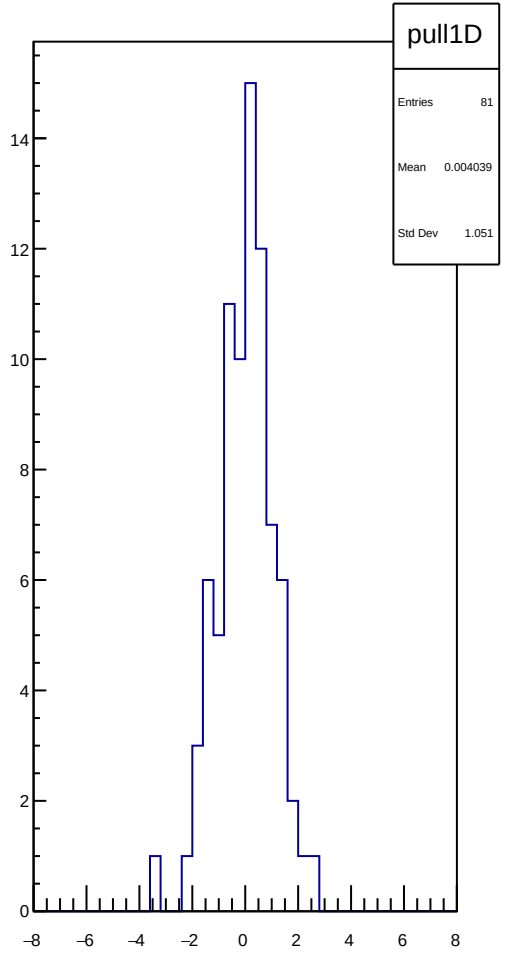

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.924e+05 / 80
p0 34.76 ± 0.02972
90
80
70
60
50
40
30
20

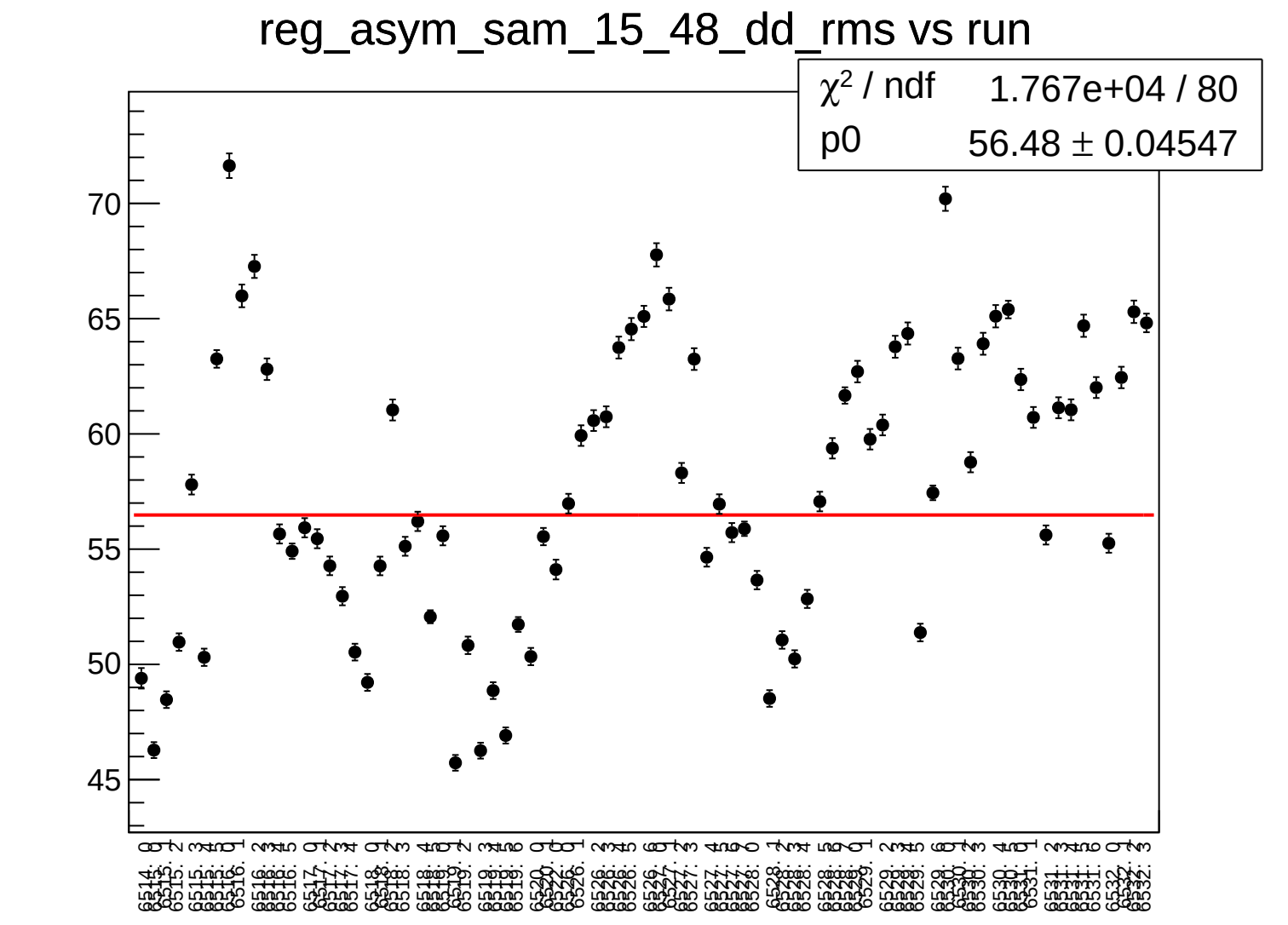

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.73 / 80
p0 1.552e−14 ± 1.228e−14
pull
Entries 81
Mean 36.46
Std Dev 0

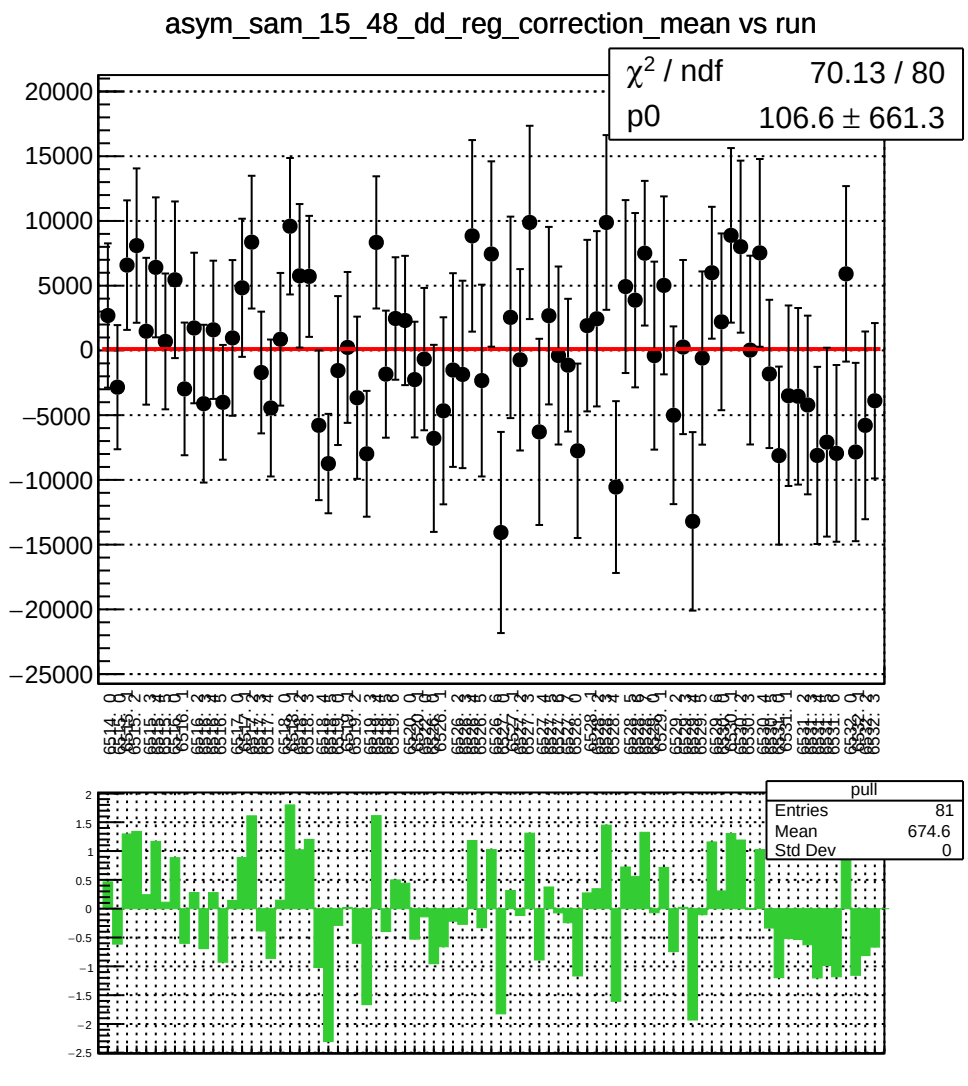

pull1D
Entries 81
Mean 0.06353
Std Dev 1.085

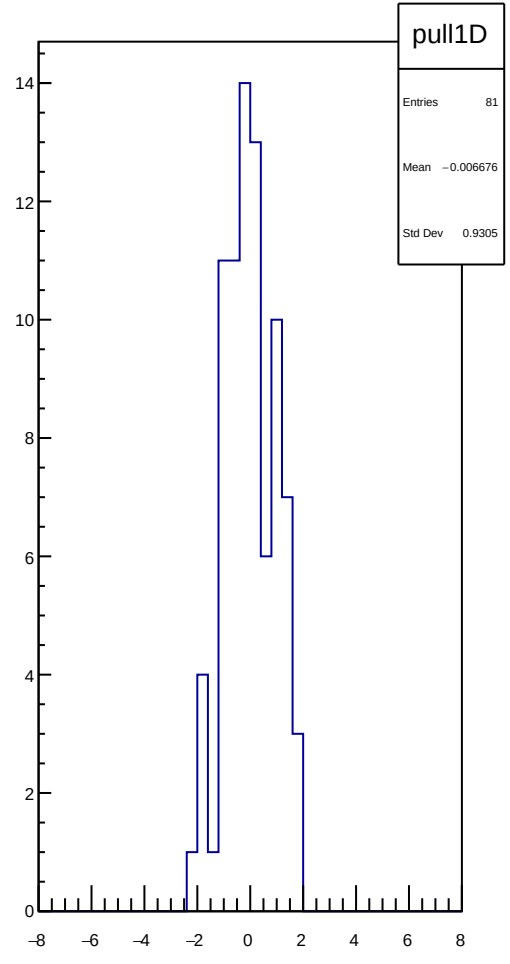

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.273e+05 / 80
p0 7.929e−12 ± 8.685e−15
90
80
70
60
50
40
30
20
10

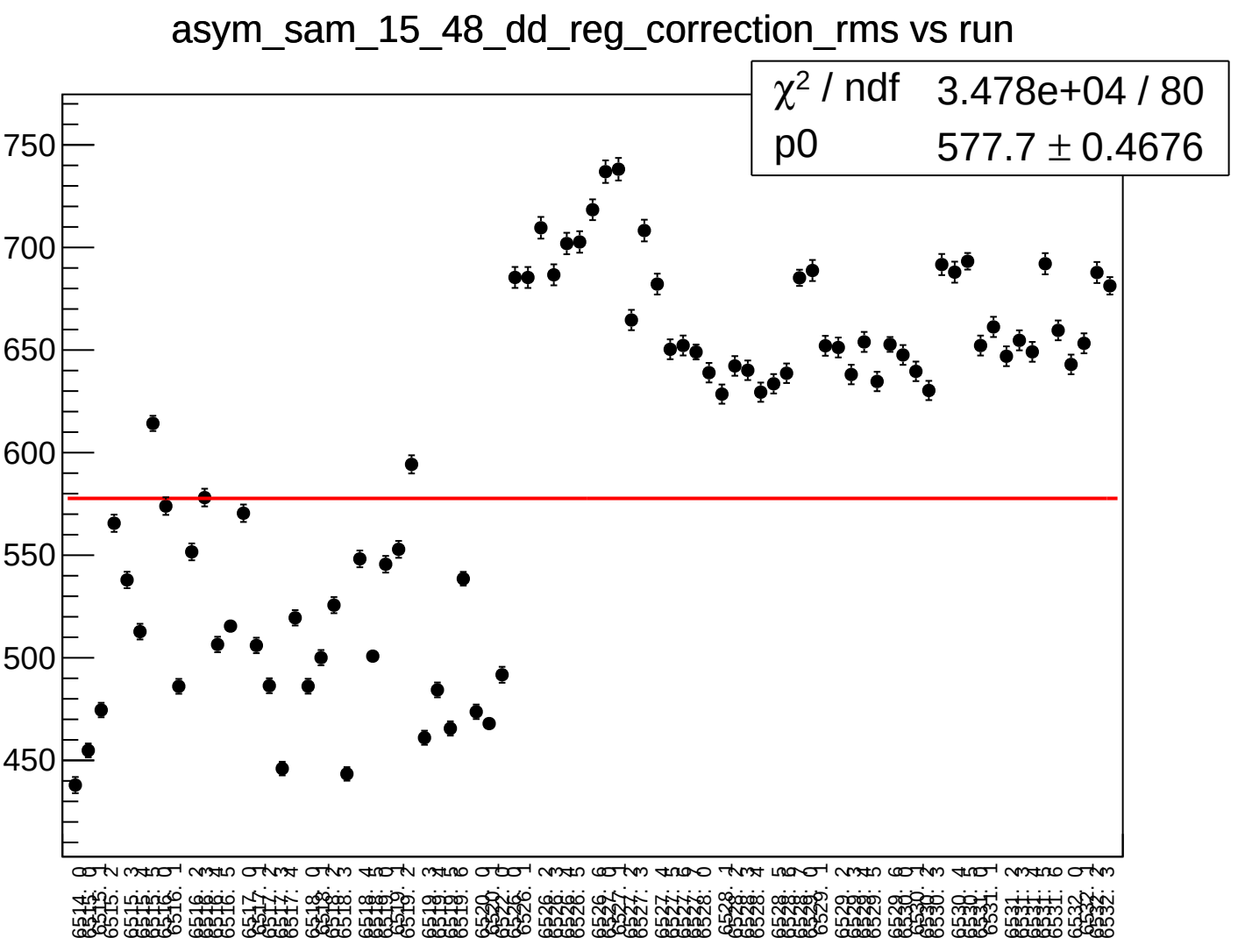

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 89.49 / 80
p0 −111.9 ± 64.3
pull
Entries 81
Mean −31.57
Std Dev 71.18

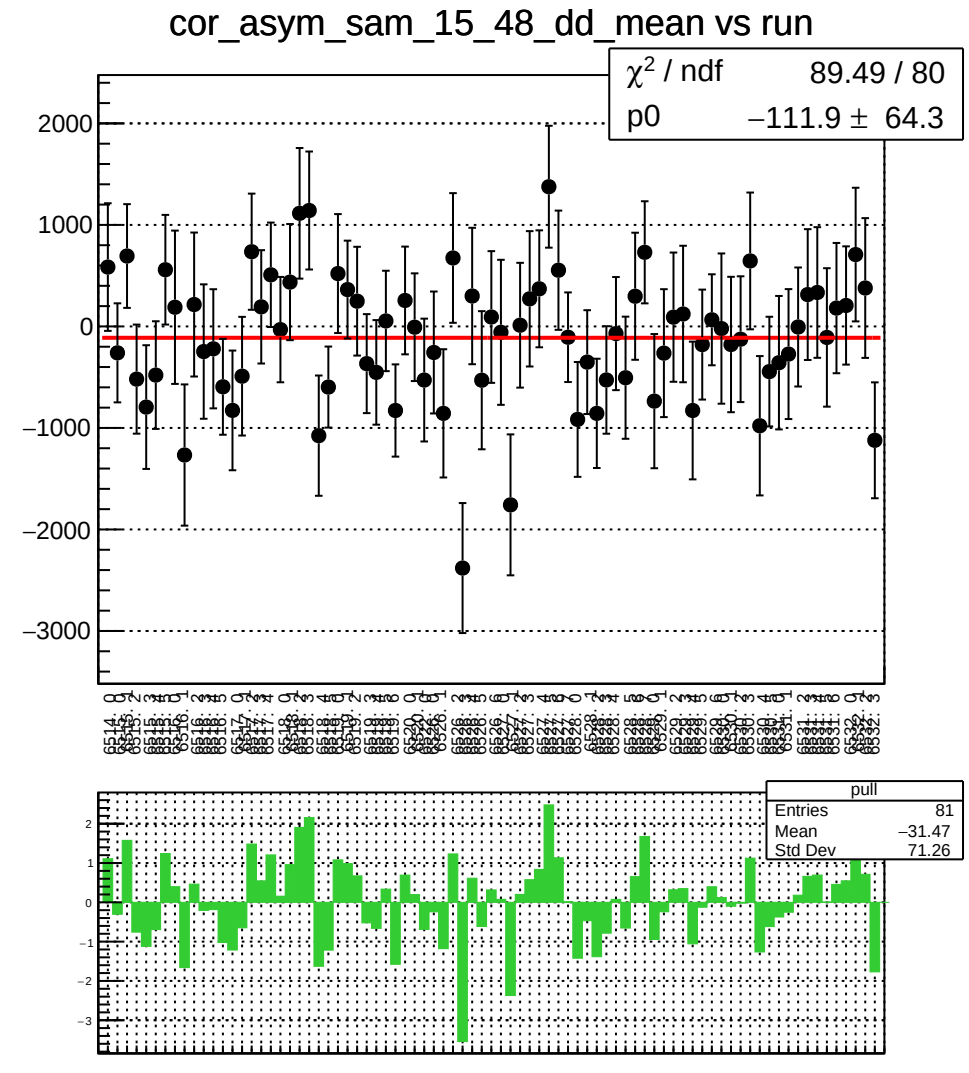

pull1D
Entries 81
Mean 0.004039
Std Dev 1.051

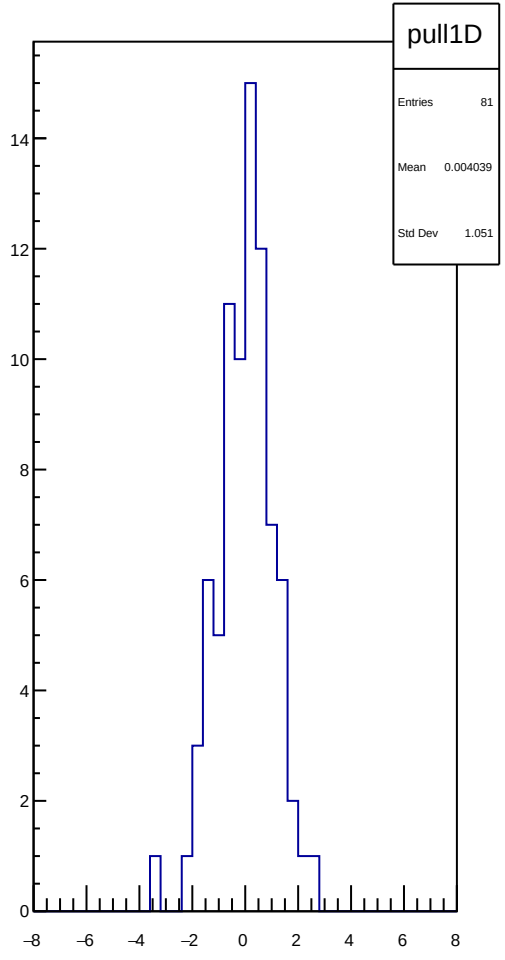

reg_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.767e+04 / 80
p0 56.48 ± 0.04547
70
65
60
55
50
45

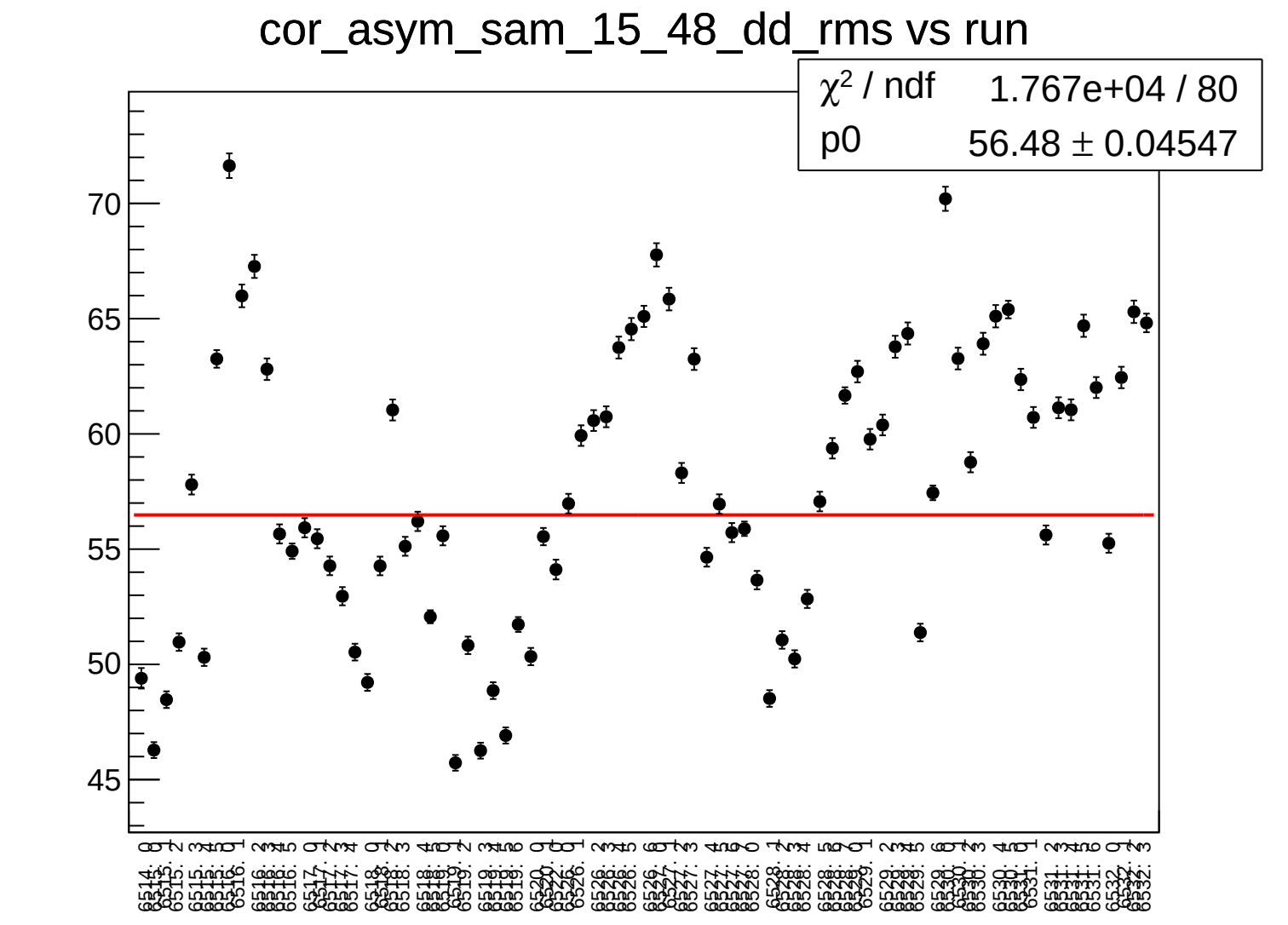

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 70.13 / 80
p0 106.6 ± 661.3
pull
Entries 81
Mean 674.6
Std Dev 0

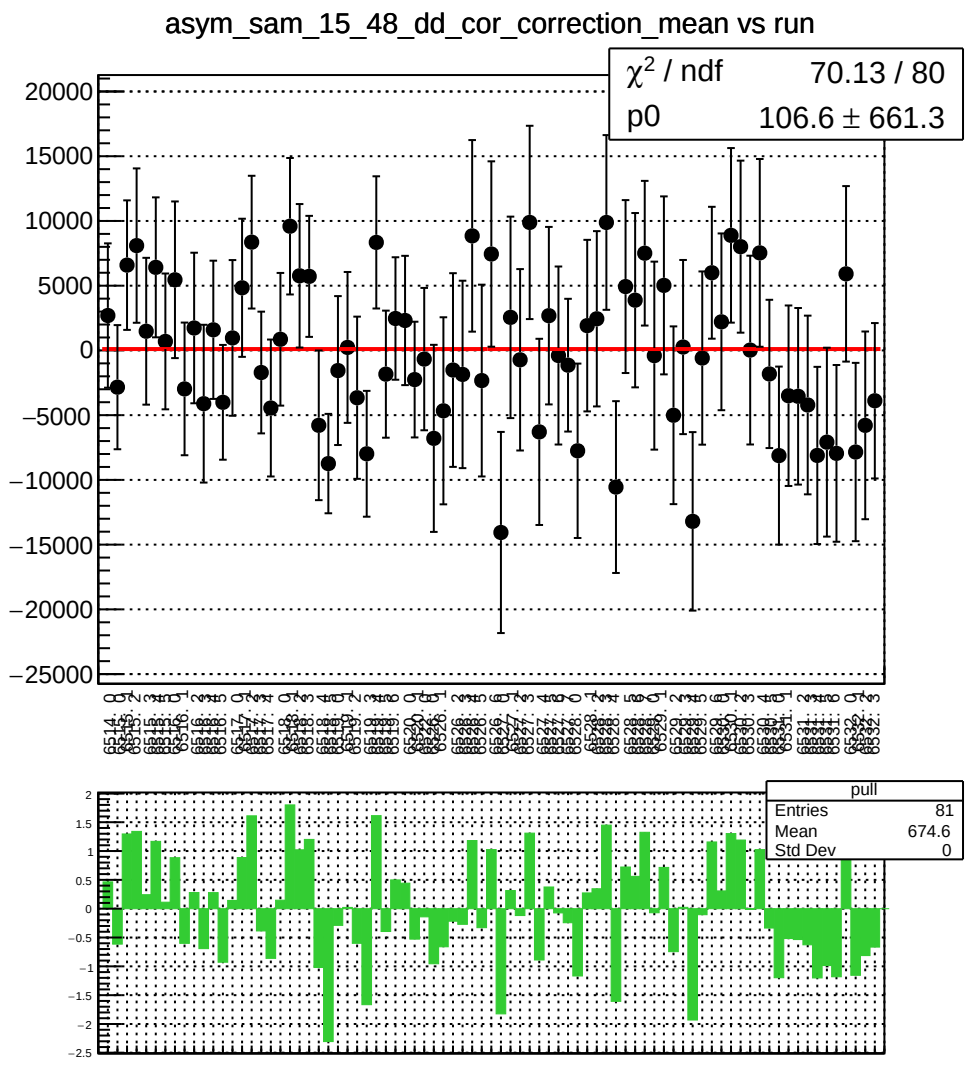

pull1D
Entries 81
Mean −0.006676
Std Dev 0.9305

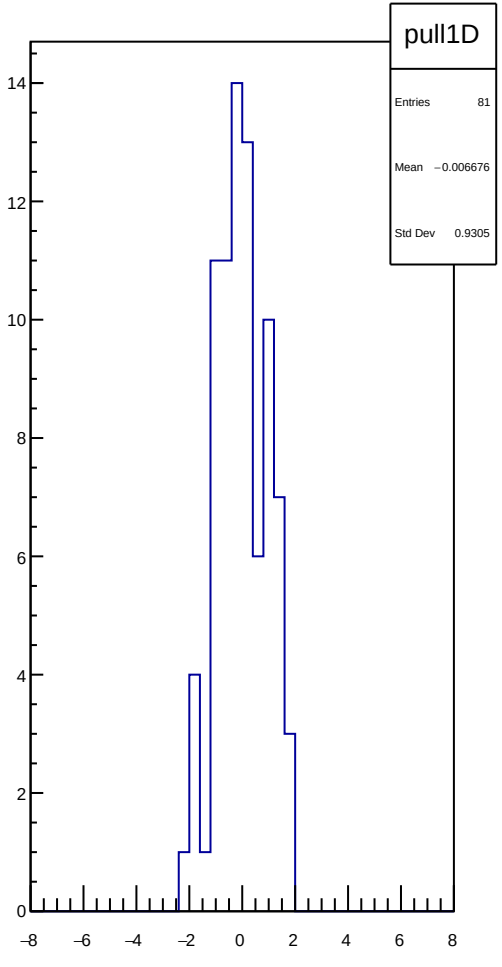

asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 3.478e+04 / 80
p0 577.7 ± 0.4676
750
700
650
600
550
500
450

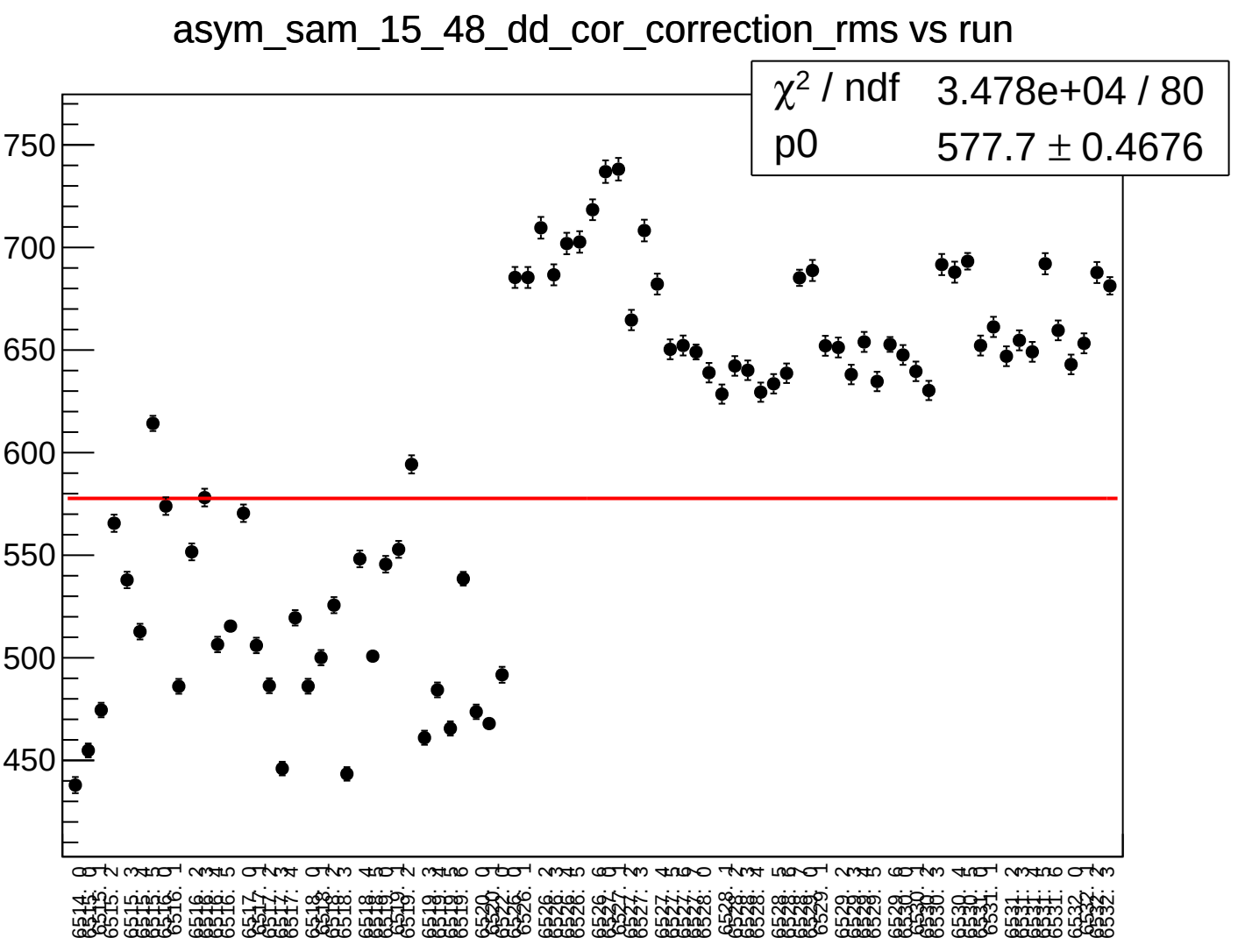

cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 89.49 / 80
p0 −111.9 ± 64.3
pull
Entries 81
Mean −31.47
Std Dev 71.26

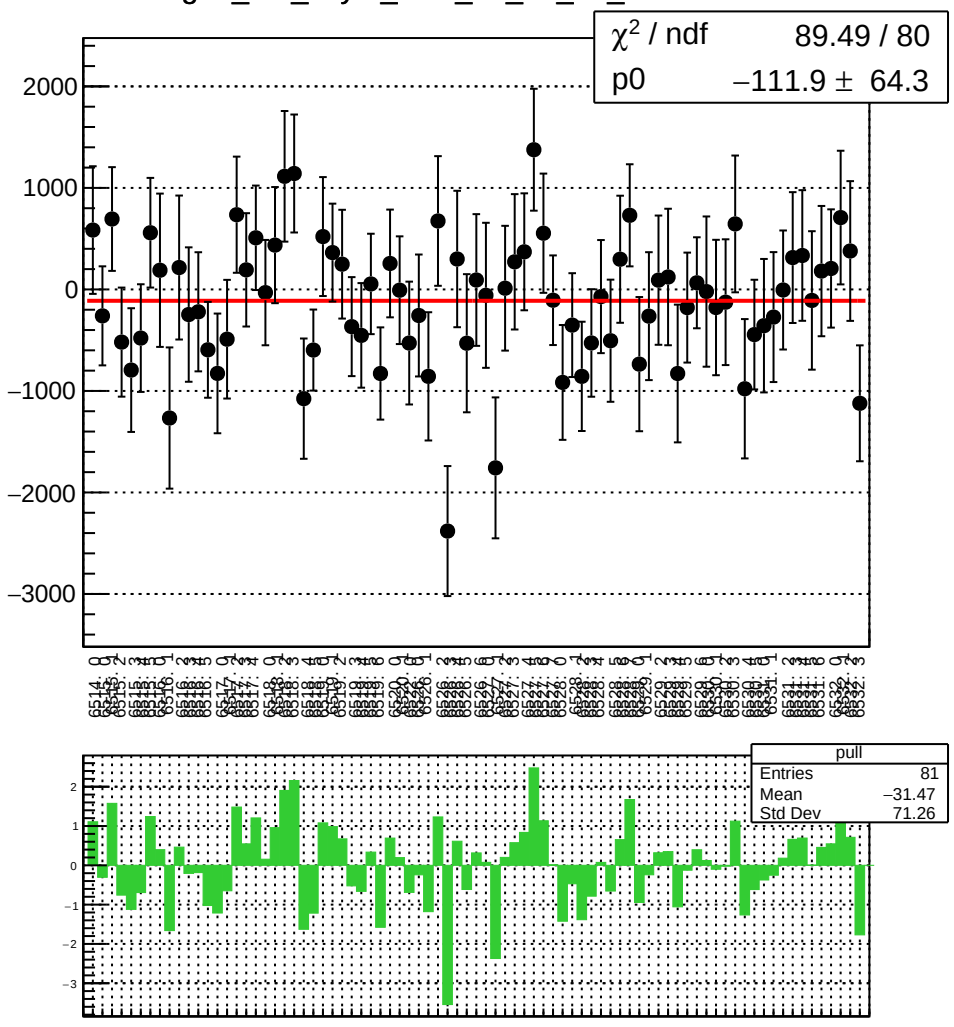

pull1D
Entries 81
Mean 0.004039
Std Dev 1.051

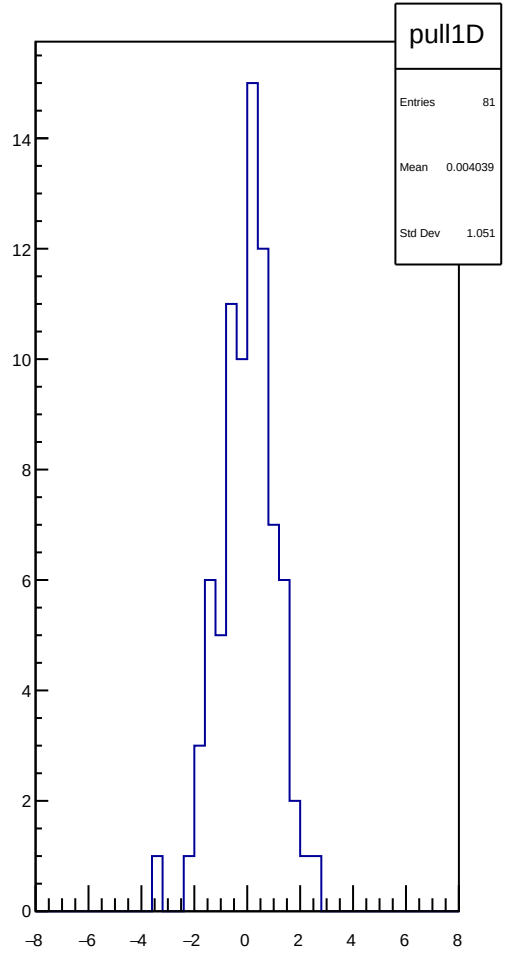

cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.767e+04 / 80
p0 56.48 ± 0.04547
70
65
60
55
50
45

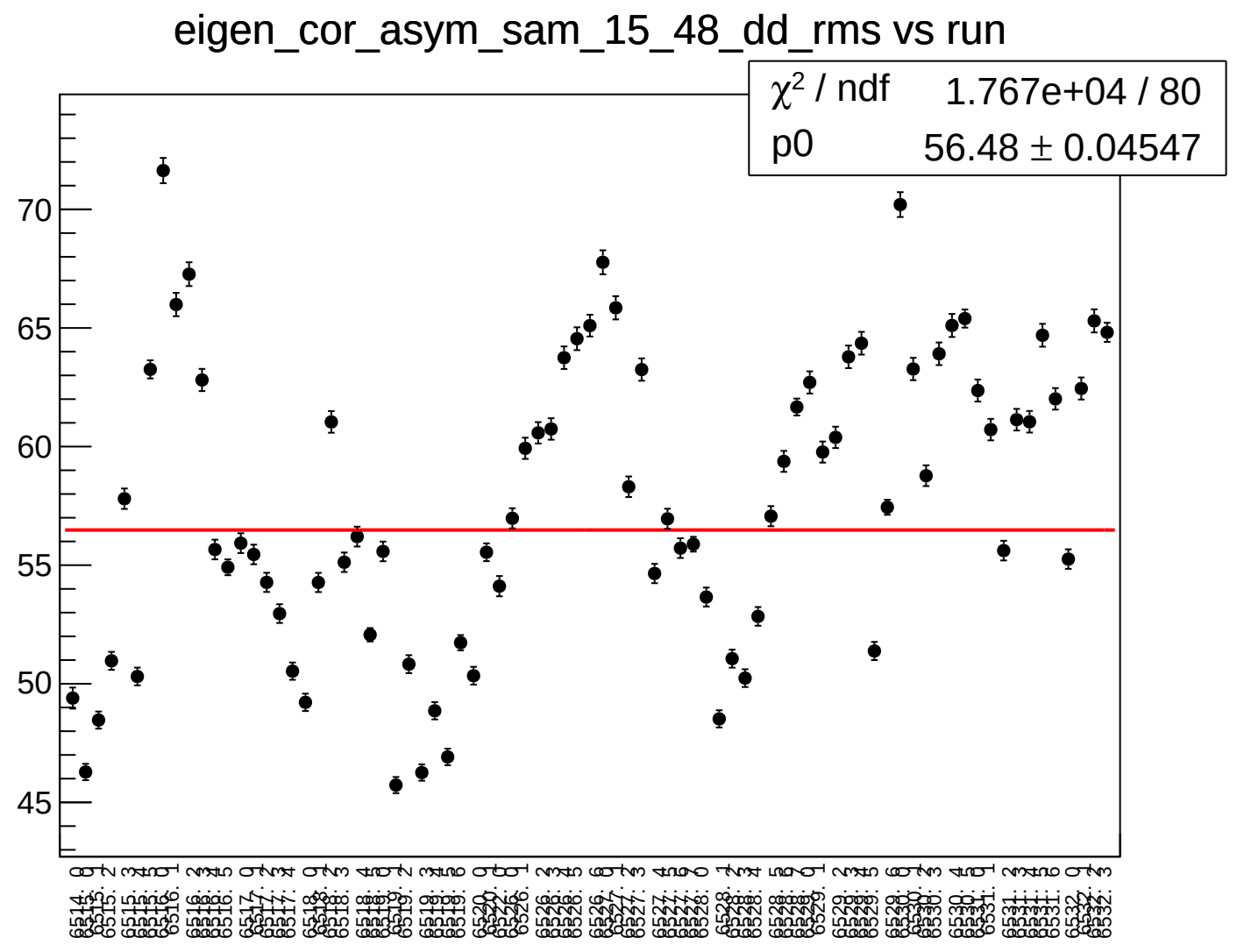

asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 70.13 / 80
p0 106.6 ± 661.3
pull
Entries 81
Mean 674.6
Std Dev 0

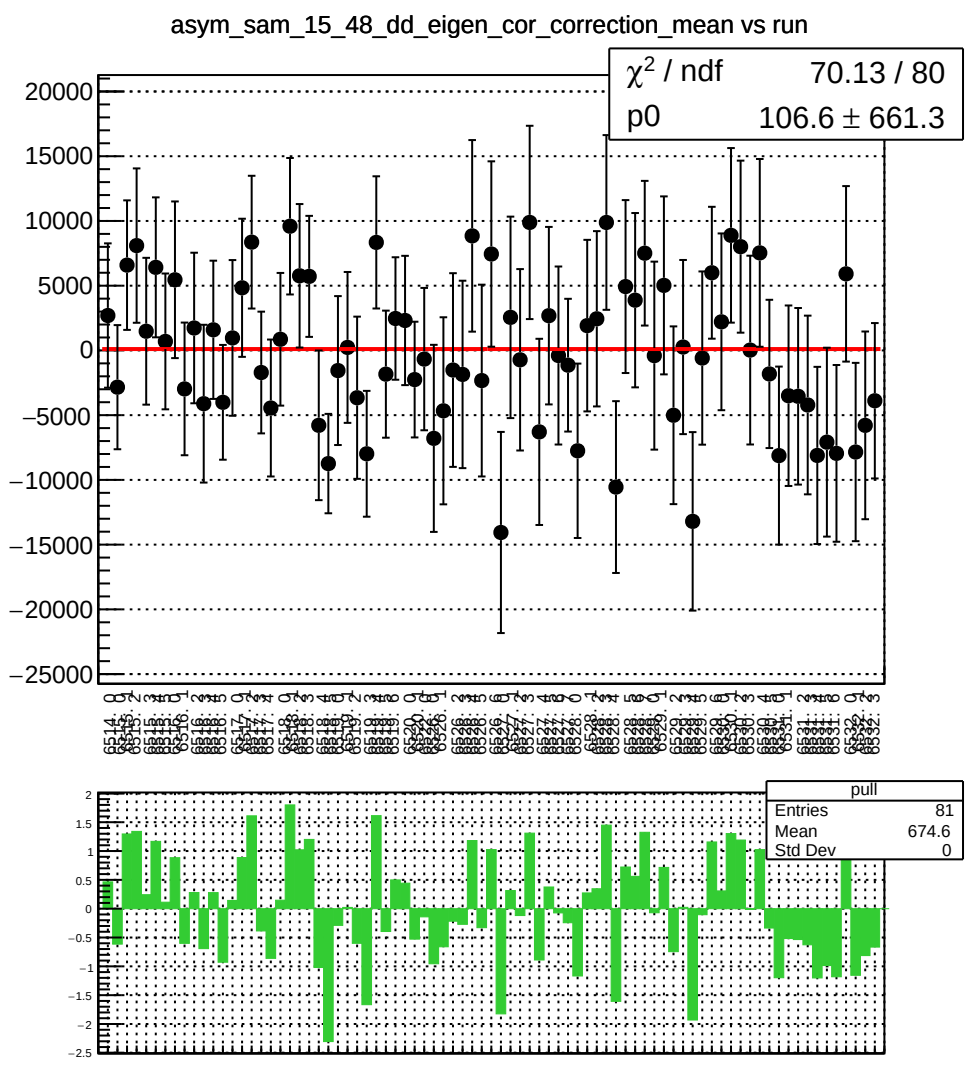

pull1D
Entries 81
Mean −0.006676
Std Dev 0.9305

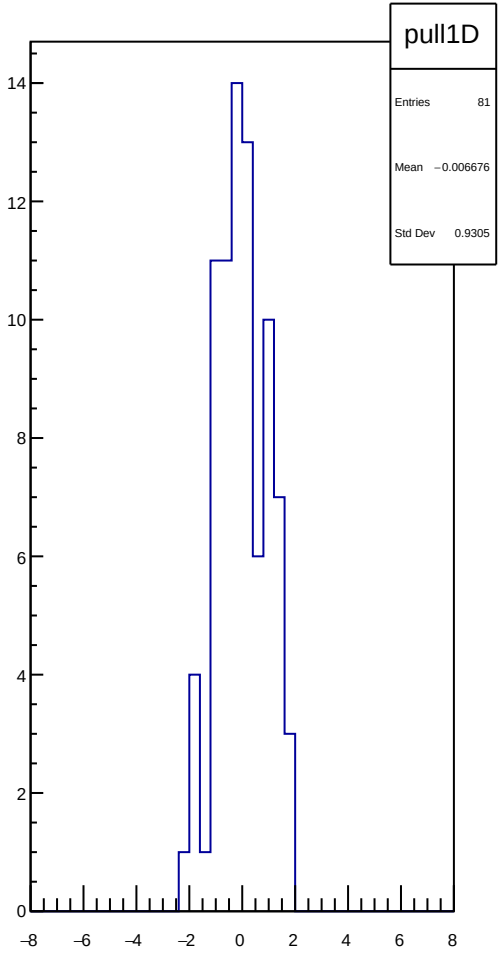

asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 3.478e+04 / 80
p0 577.7 ± 0.4676
750
700
650
600
550
500
450

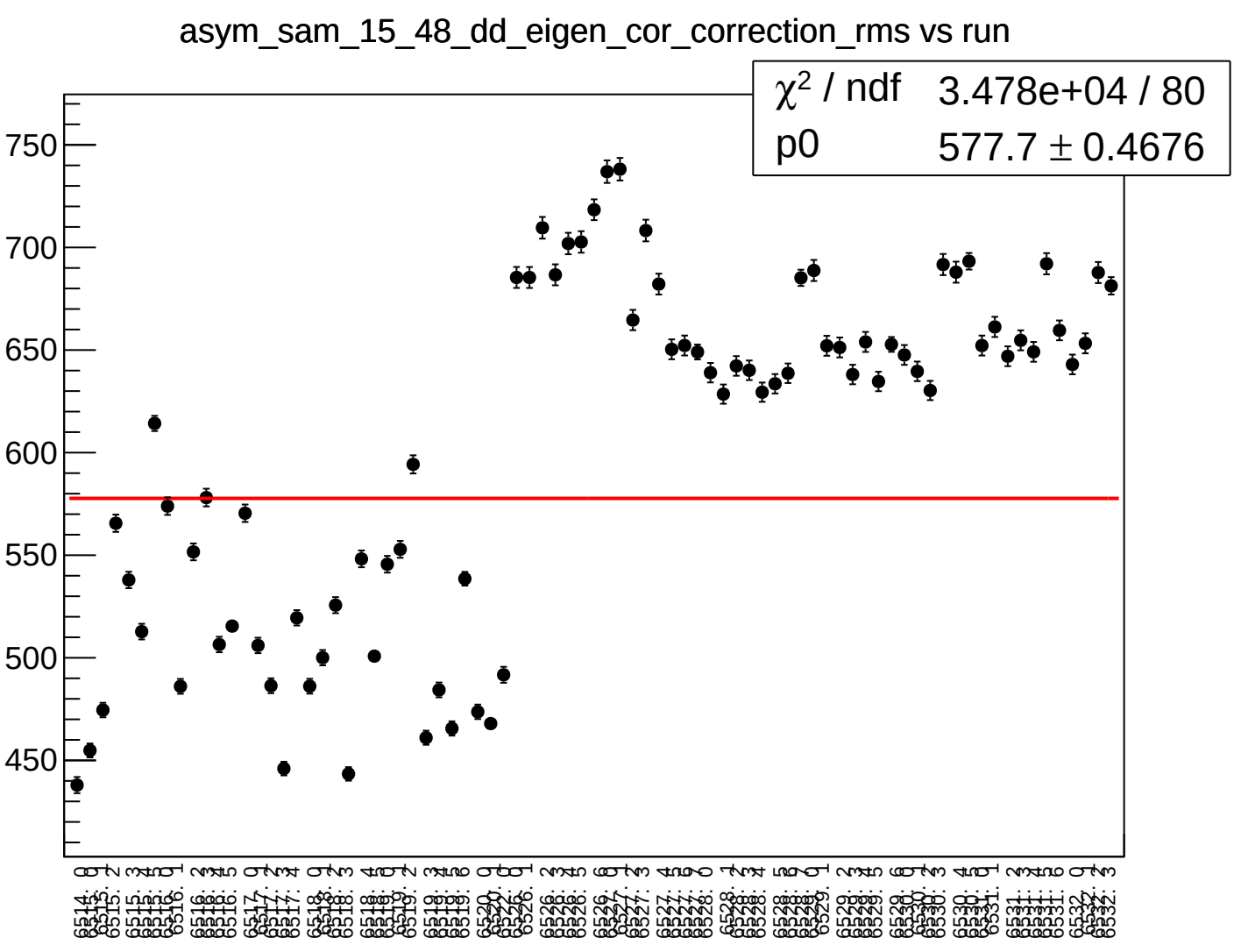

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 89.49 / 80
p0 −111.9 ± 64.3
2000
1000
0
−1000
−2000
−3000
pull
Entries 81
Mean −31.47
Std Dev 71.26
2
1
0
−1
−2
−3

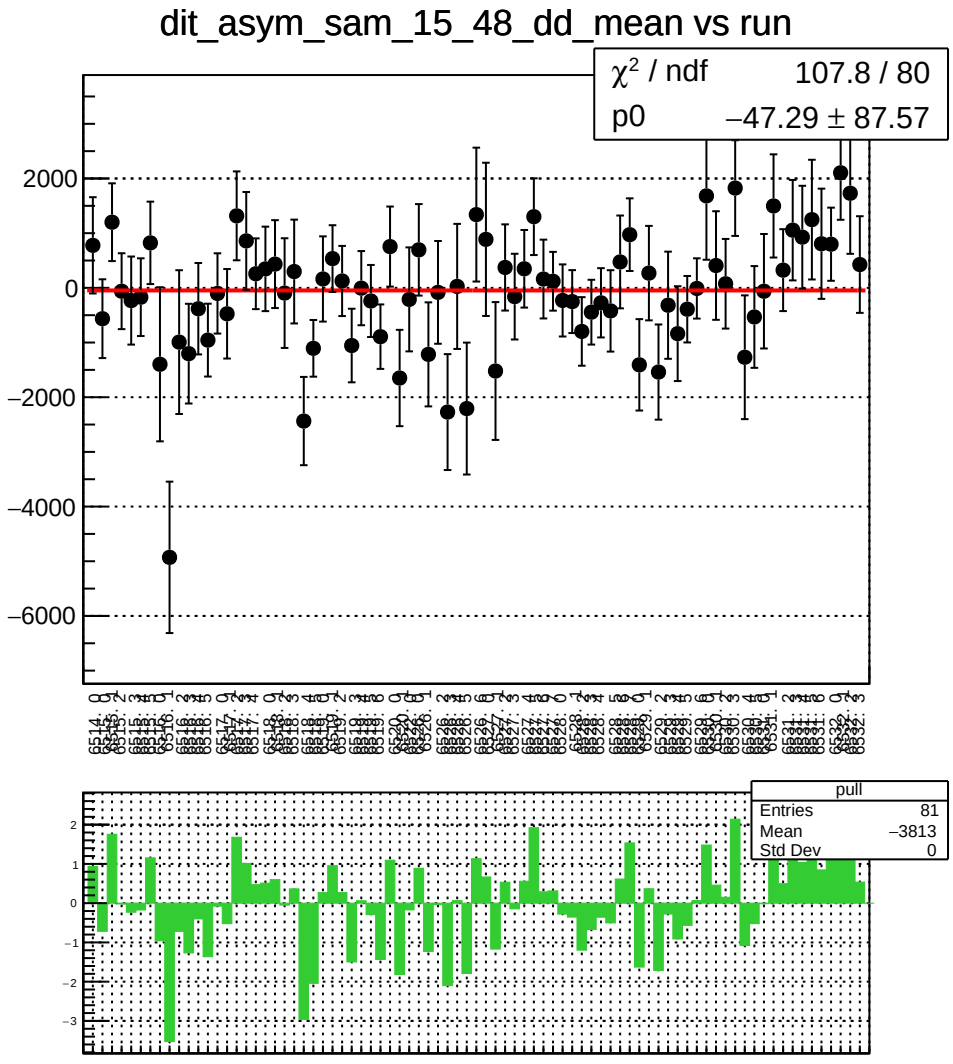

pull1D
Entries 81
Mean 0.004039
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

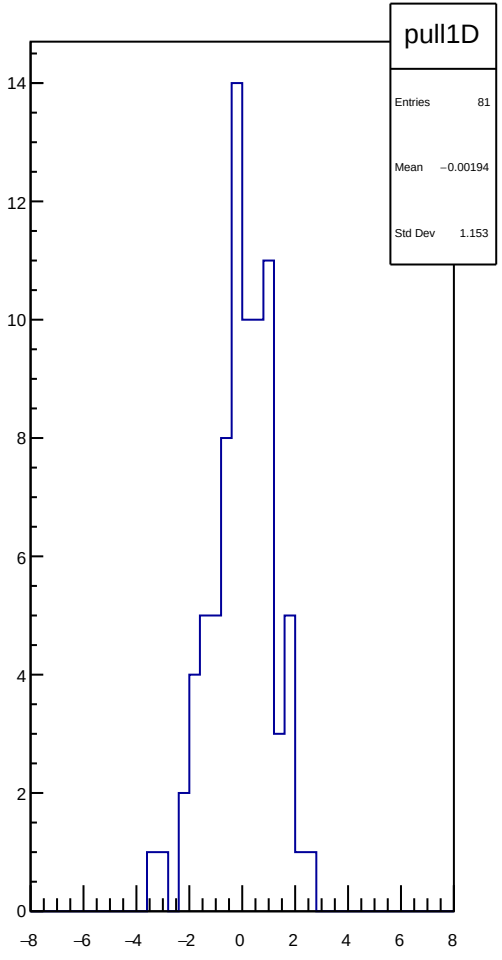

eigen_cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.767e+04 / 80
p0 56.48 ± 0.04547
70
65
60
55
50
45

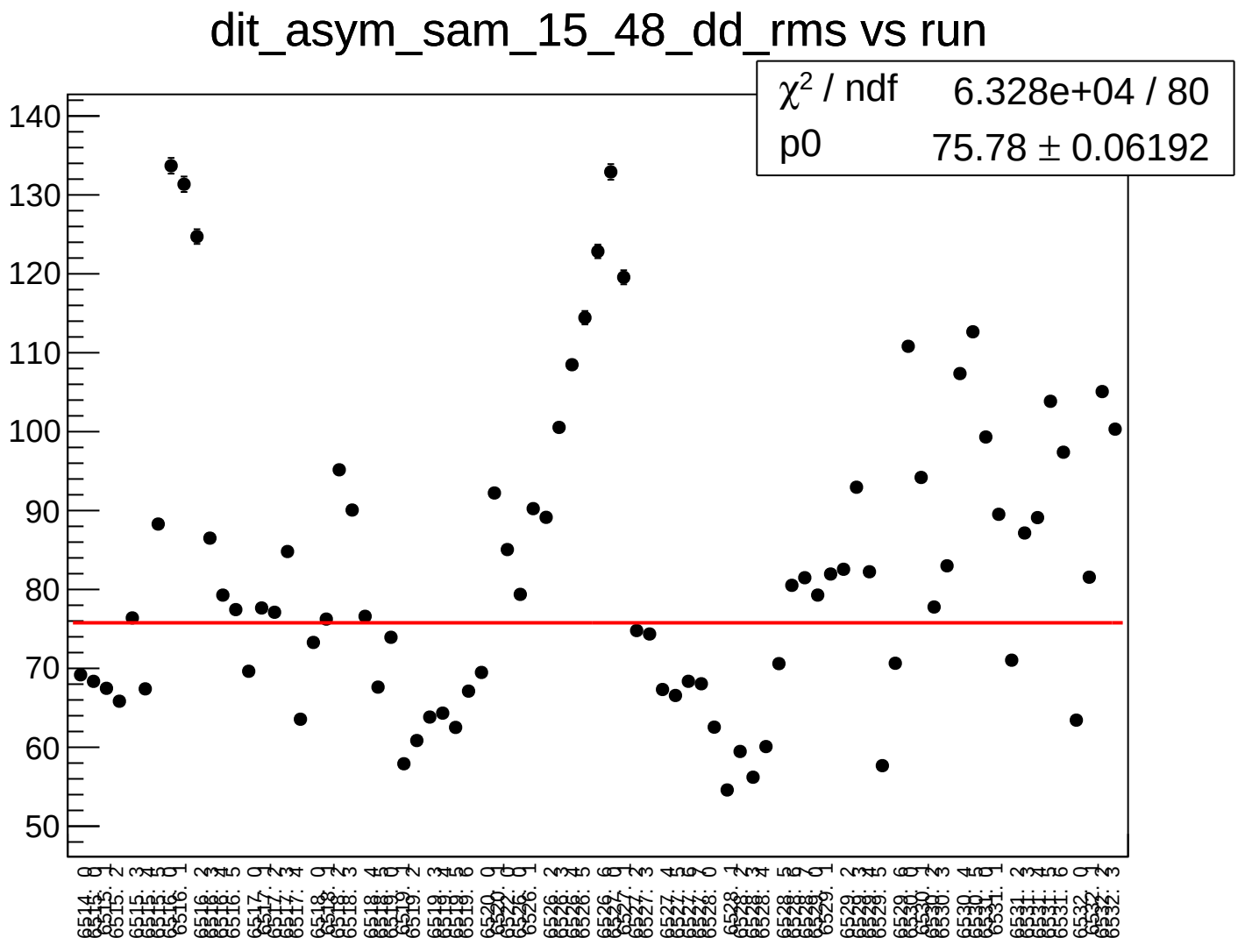

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ^2 / ndf 70.13 / 80
p0 106.6 ± 661.3
pull
Entries 81
Mean 674.6
Std Dev 0

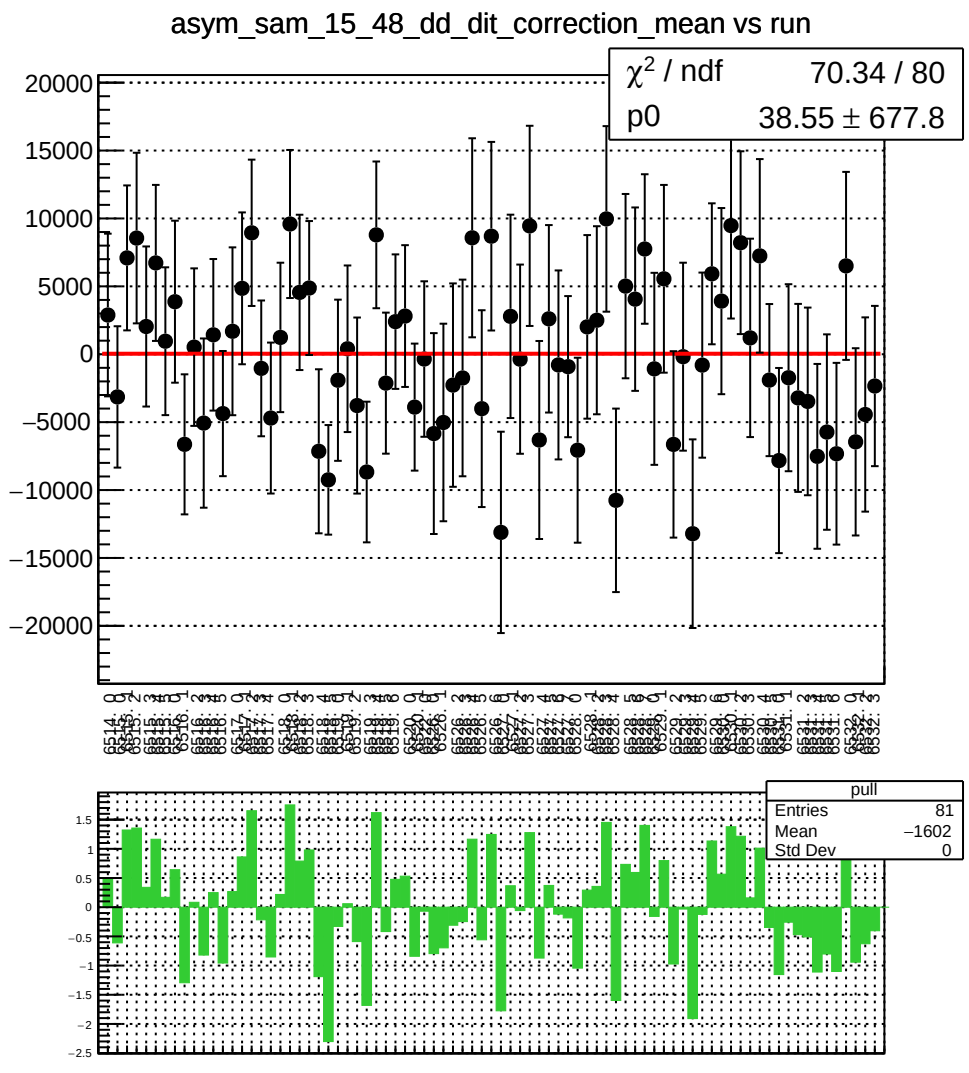

pull1D
Entries 81
Mean −0.006676
Std Dev 0.9305

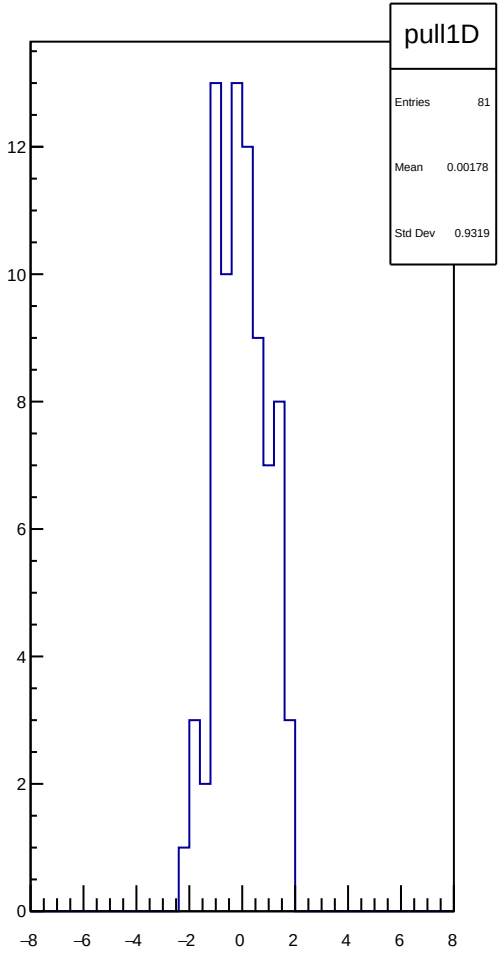

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.478e+04 / 80
p0 577.7 ± 0.4676
750
700
650
600
550
500
450

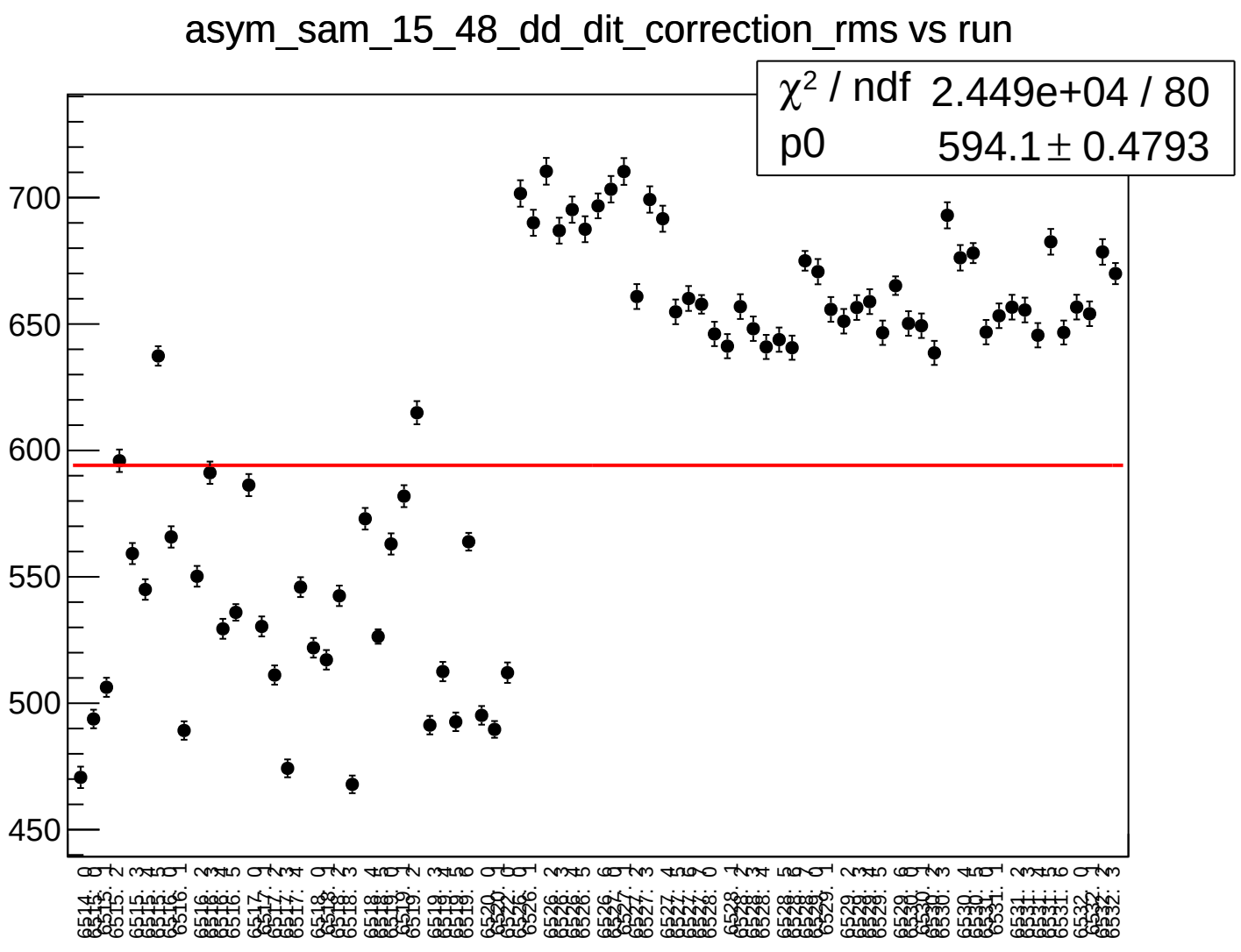

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 107.8 / 80
p0 −47.29 ± 87.57
2000
0
−2000
−4000
−6000
pull
Entries 81
Mean −3813
Std Dev 0
2
1
0
−1
−2
−3

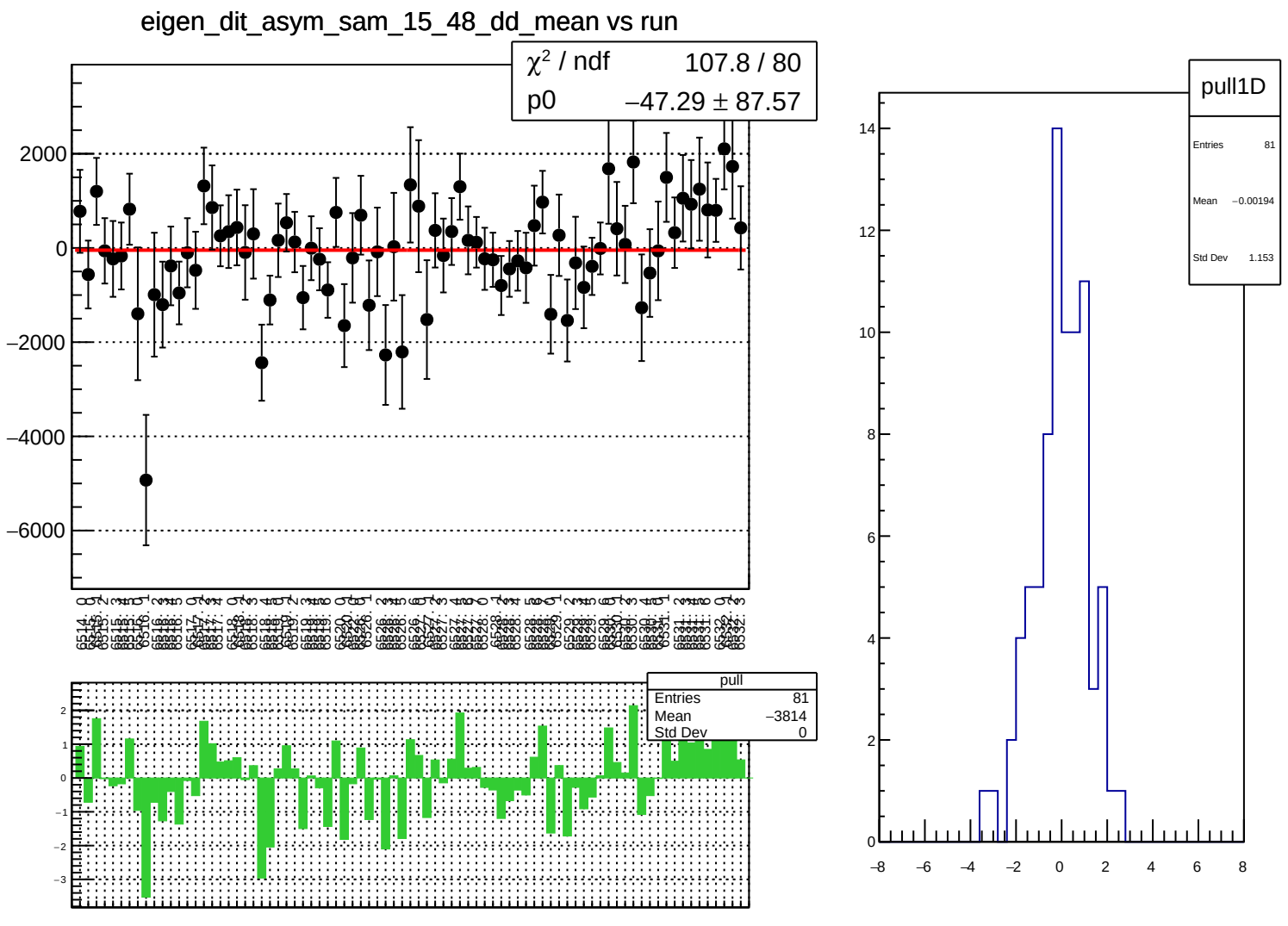

pull1D
Entries 81
Mean −0.00194
Std Dev 1.153
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

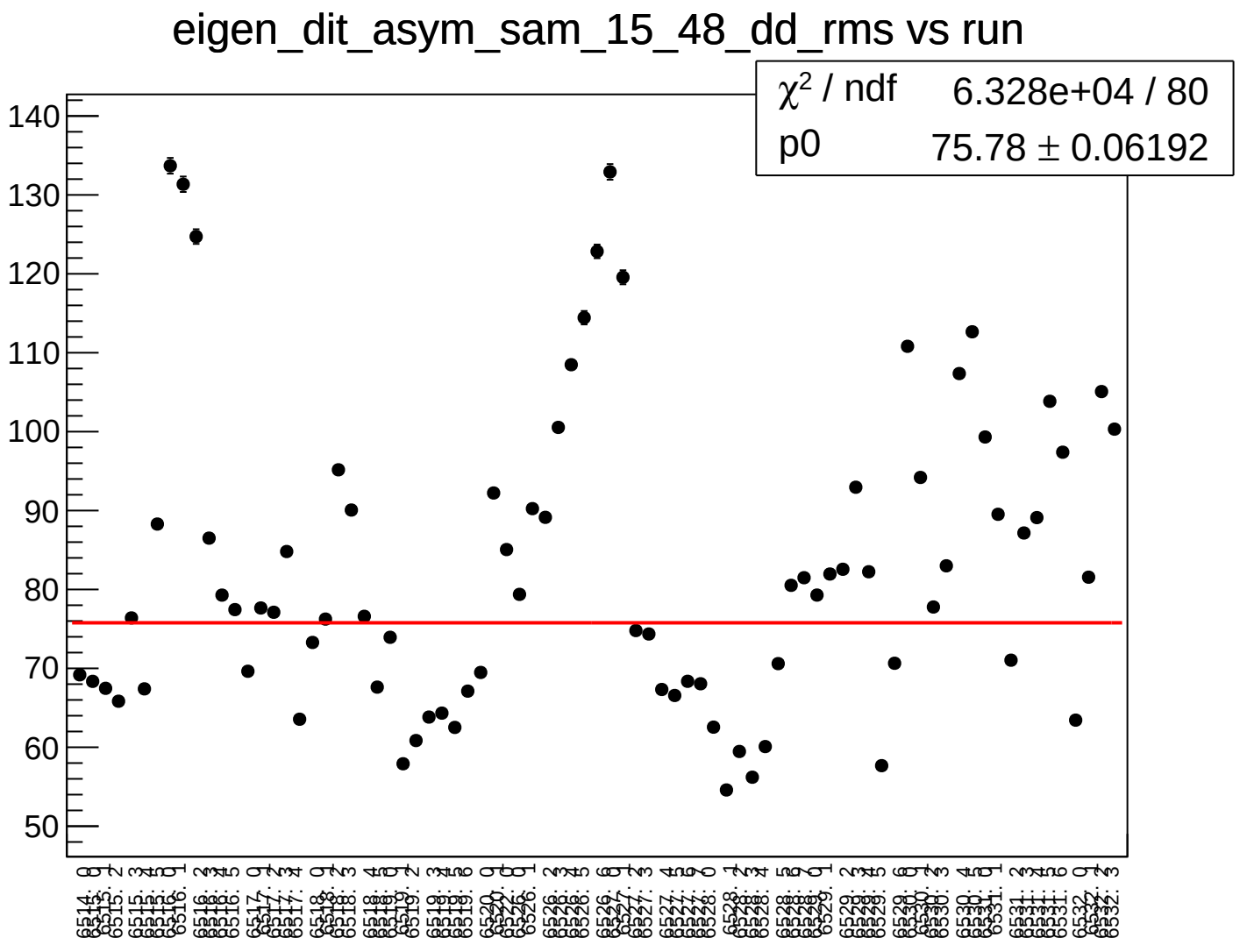

dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 6.328e+04 / 80
p0 75.78 ± 0.06192
140
130
120
110
100
90
80
70
60
50

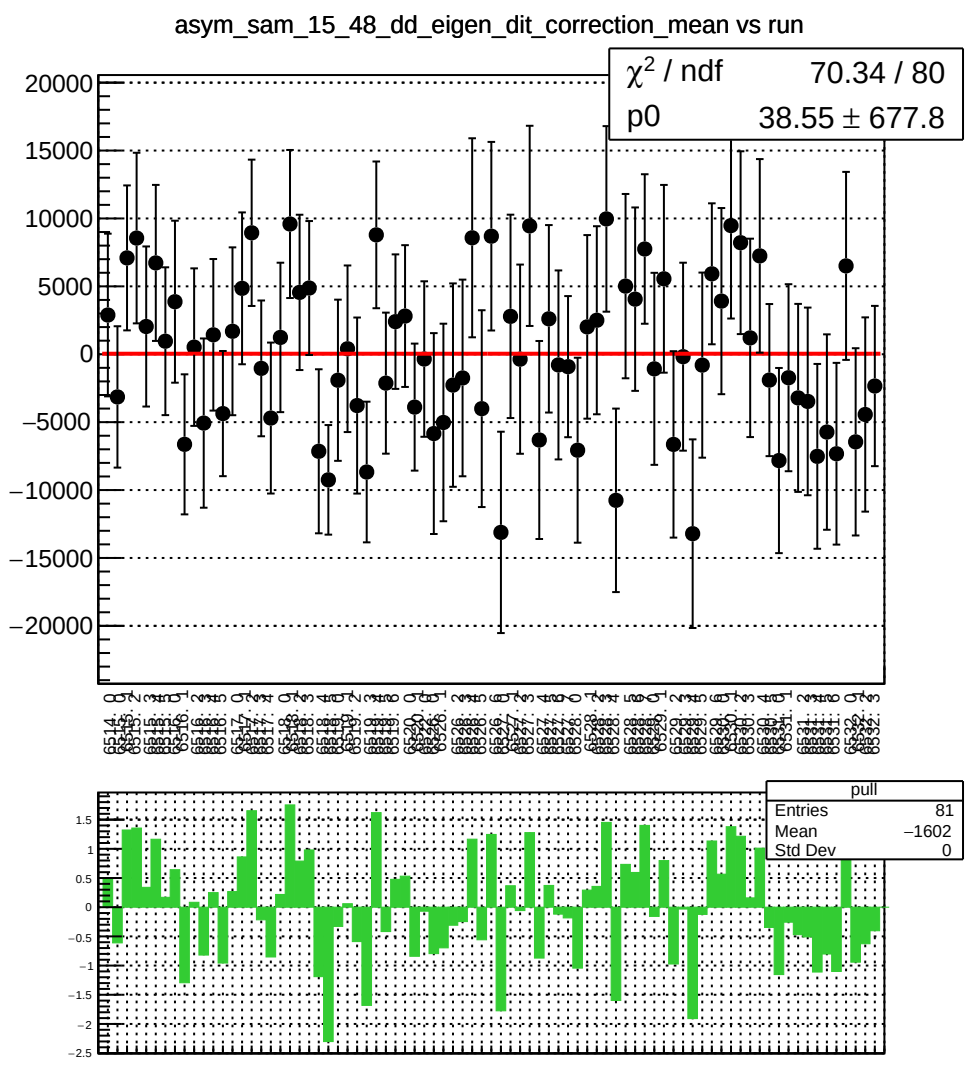

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 70.34 / 80
p0 38.55 ± 677.8
pull
Entries 81
Mean −1602
Std Dev 0

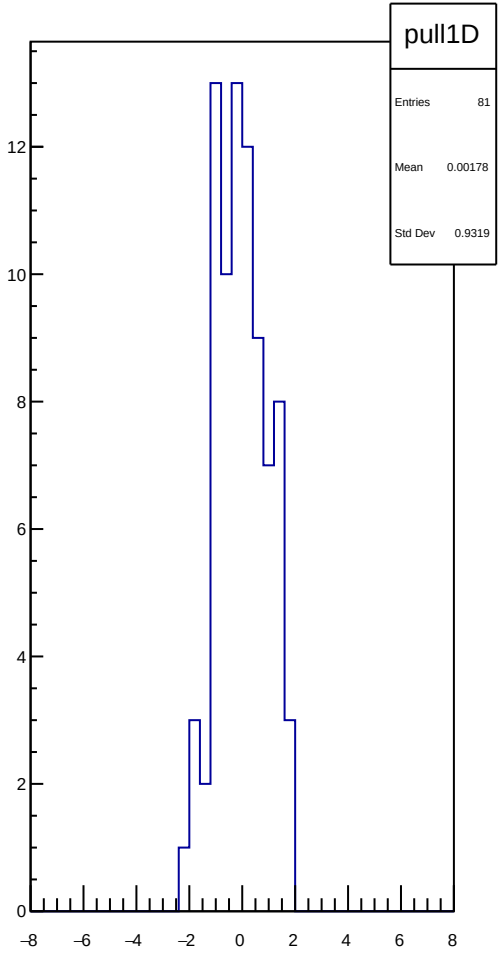

pull1D
Entries 81
Mean 0.00178
Std Dev 0.9319

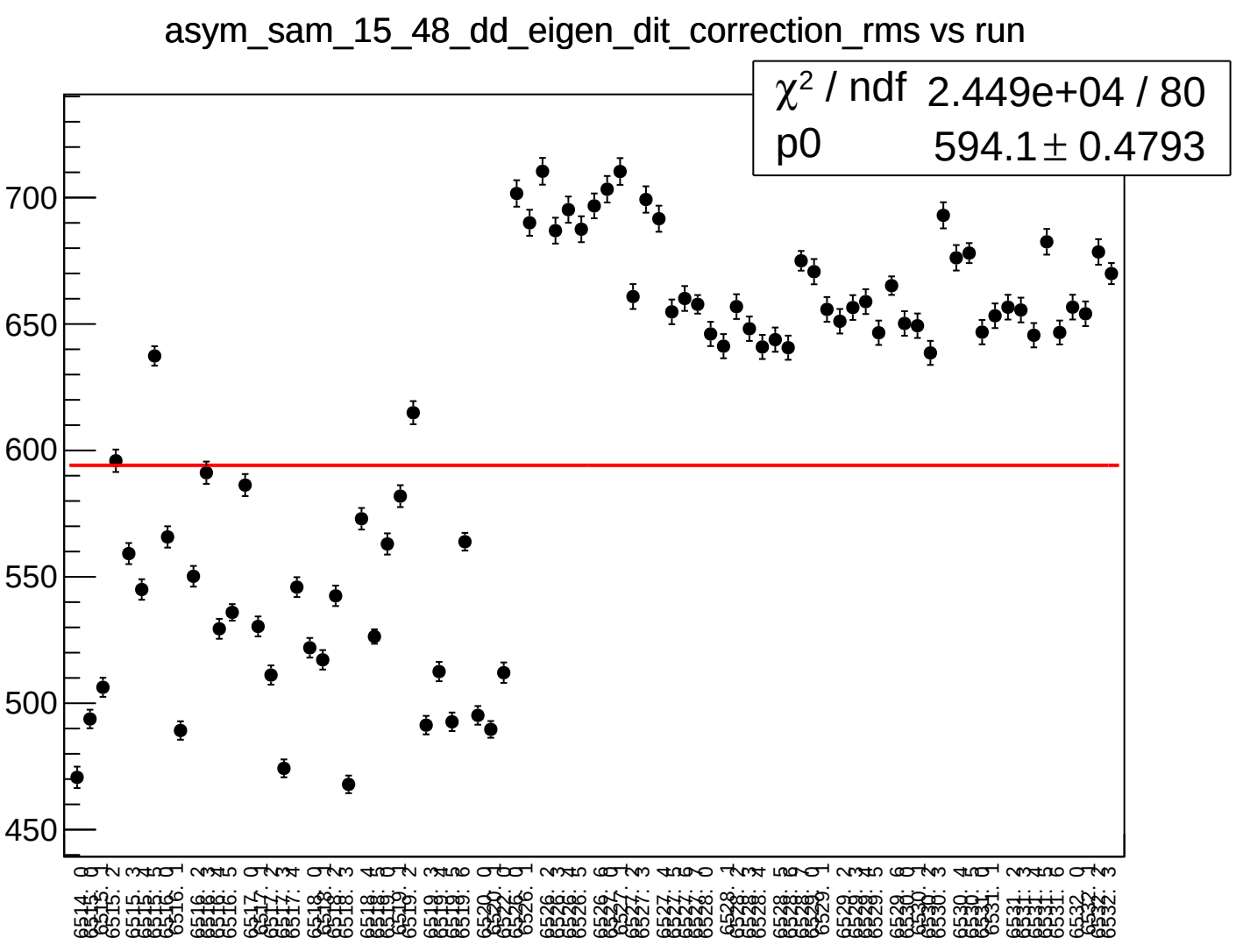

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 2.449e+04 / 80
p0 594.1 ± 0.4793
700
650
600
550
500
450

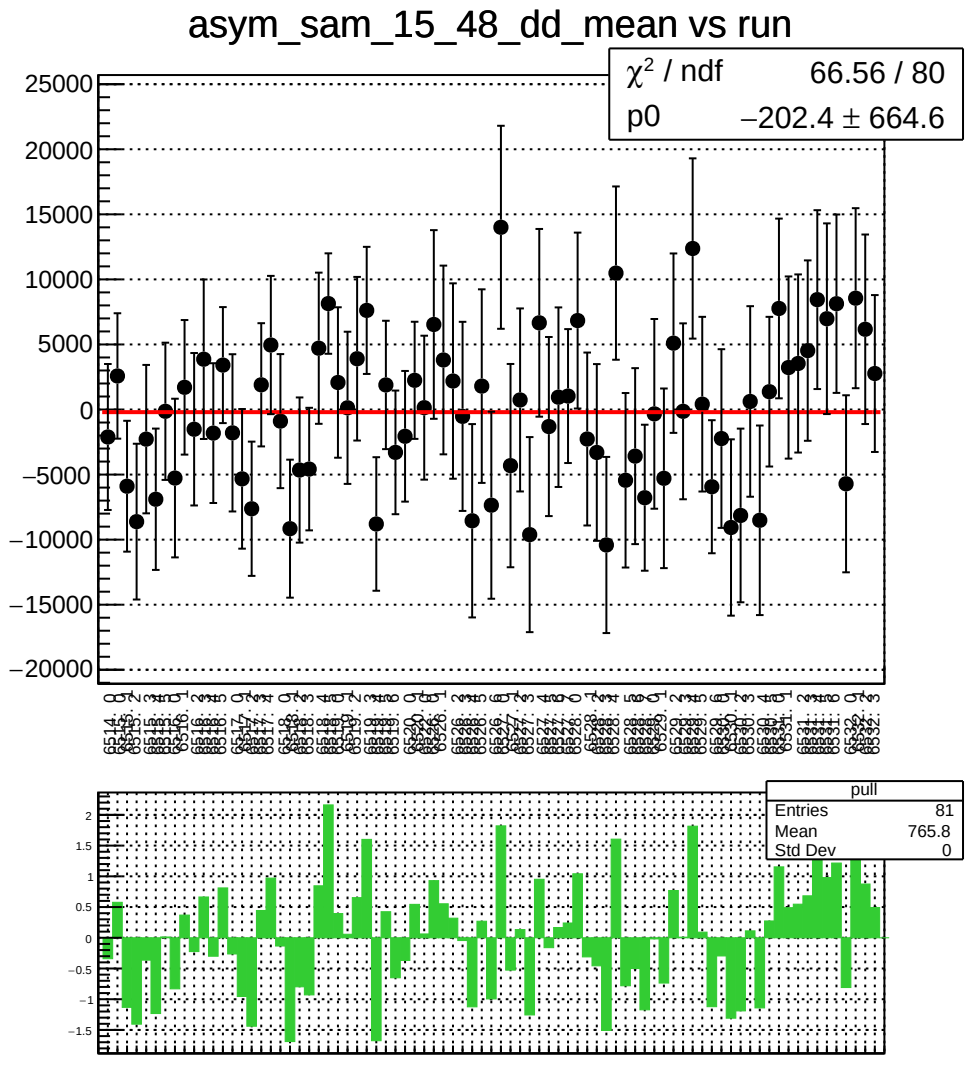

eigen_dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 107.8 / 80
p0 −47.29 ± 87.57
2000
0
−2000
−4000
−6000
pull
Entries 81
Mean −3814
Std Dev 0
pull1D
Entries 81
Mean −0.00194
Std Dev 1.153

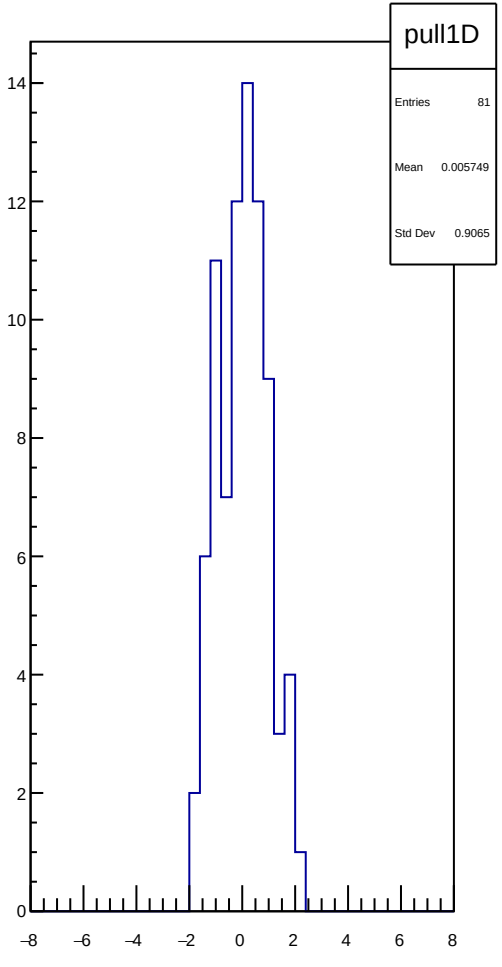

eigen_dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 6.328e+04 / 80
p0 75.78 ± 0.06192
140
130
120
110
100
90
80
70
60
50

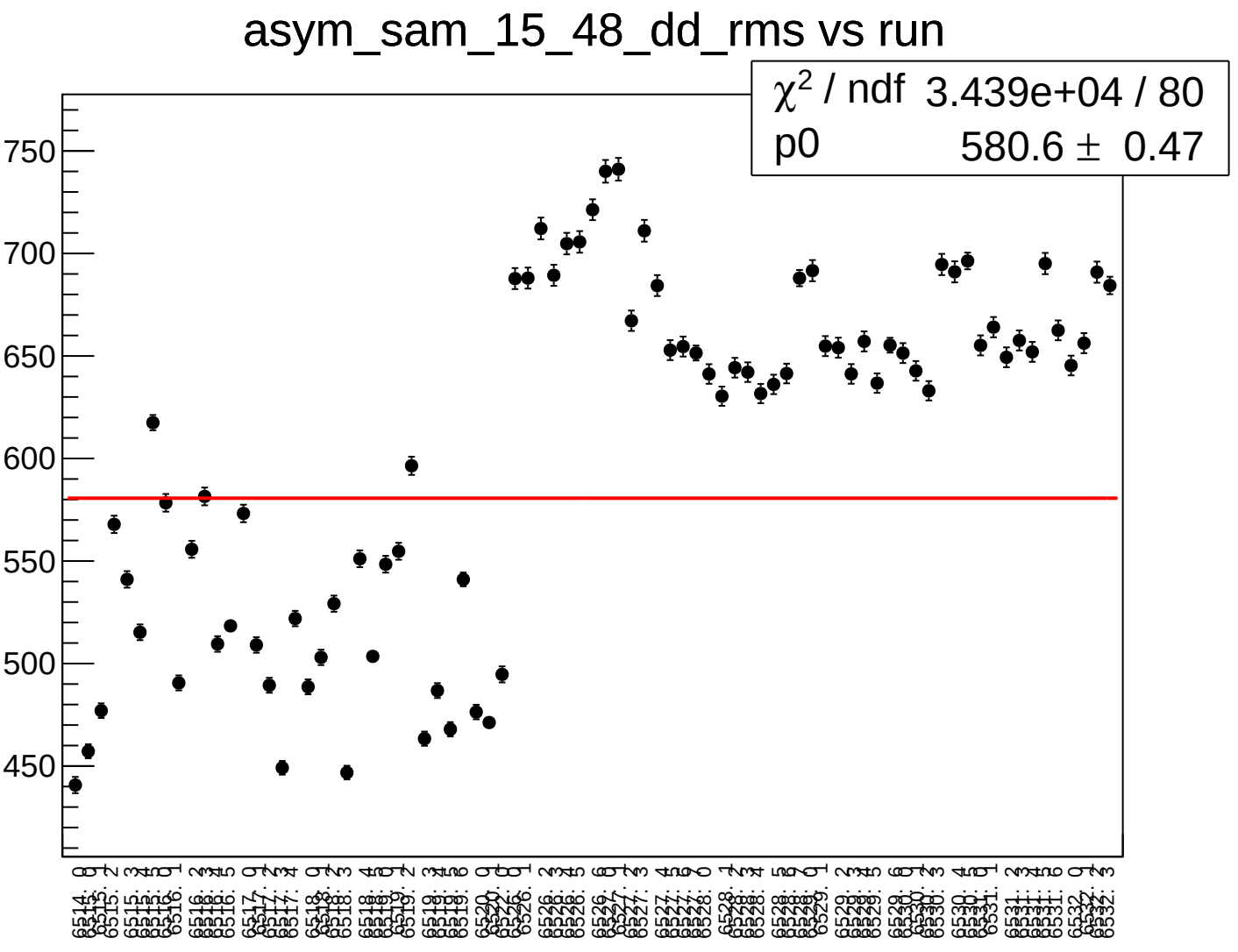

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 70.34 / 80
p0 38.55 ± 677.8
pull
Entries 81
Mean −1602
Std Dev 0

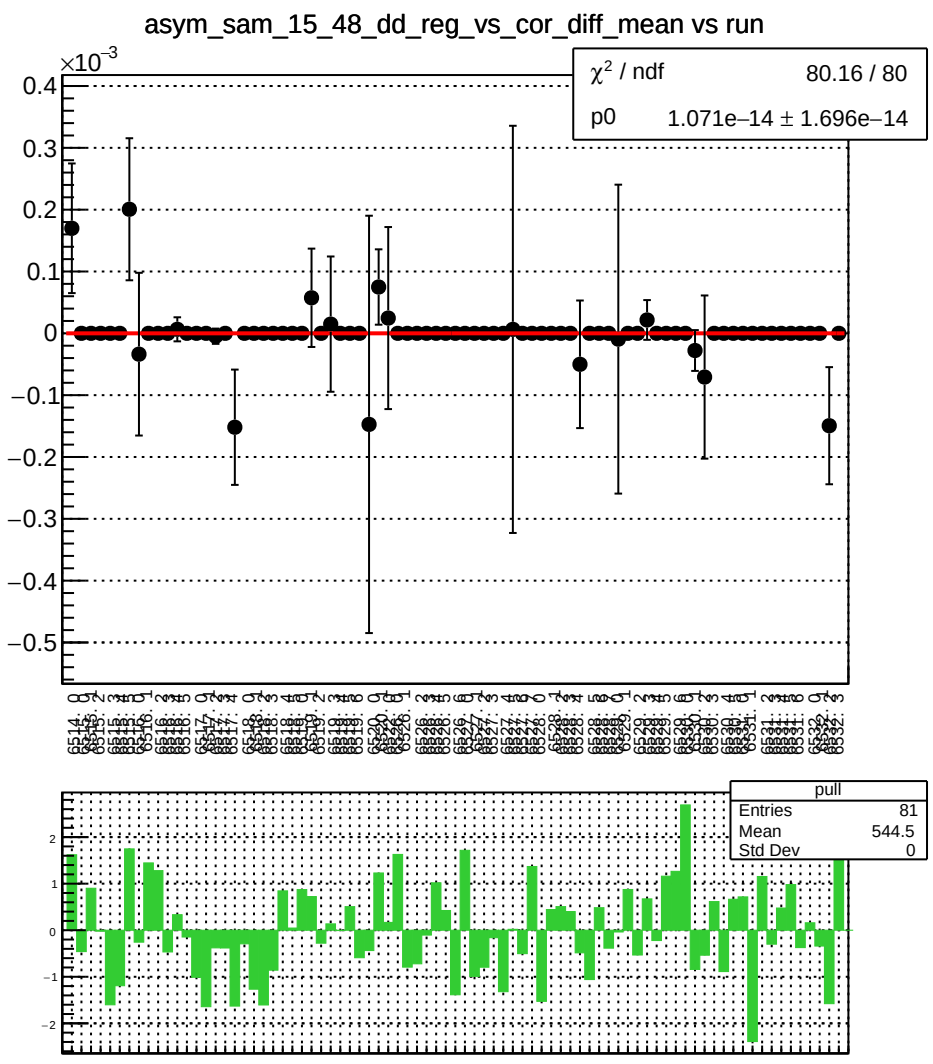

pull1D
Entries 81
Mean 0.00178
Std Dev 0.9319

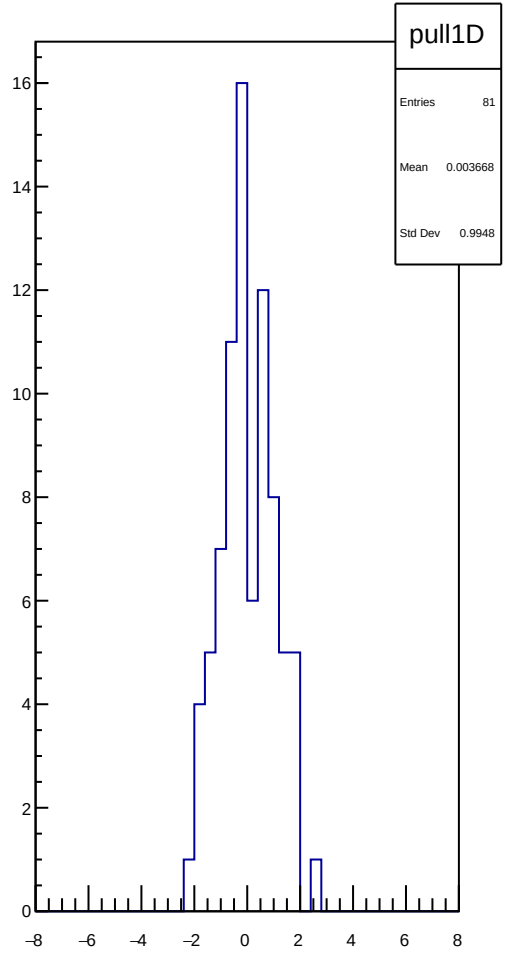

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.449e+04 / 80
p0 594.1 ± 0.4793
700
650
600
550
500
450

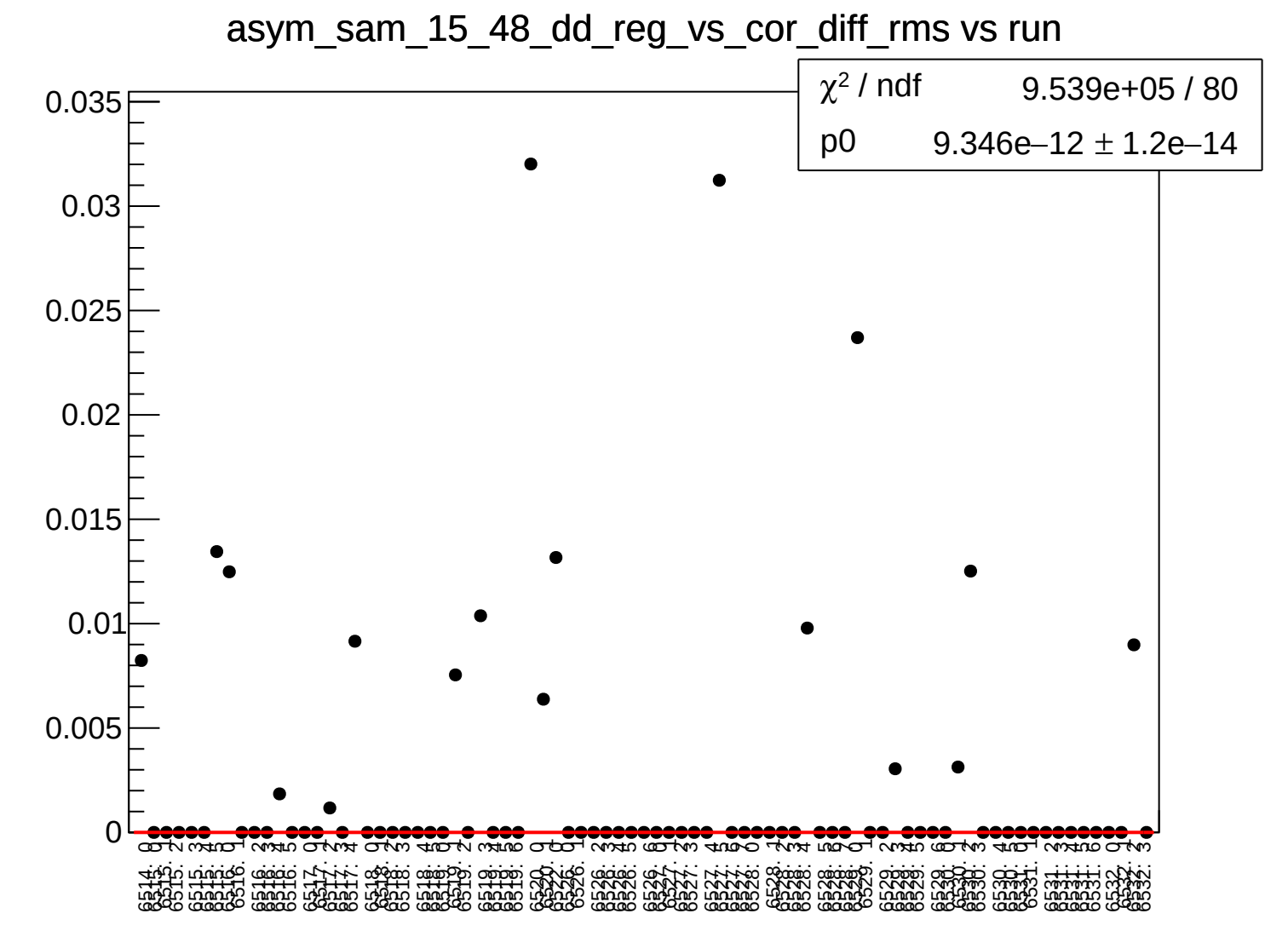

asym_sam_15_48_dd_mean vs run
χ² / ndf 66.56 / 80
p0 −202.4 ± 664.6
pull
Entries 81
Mean 765.8
Std Dev 0

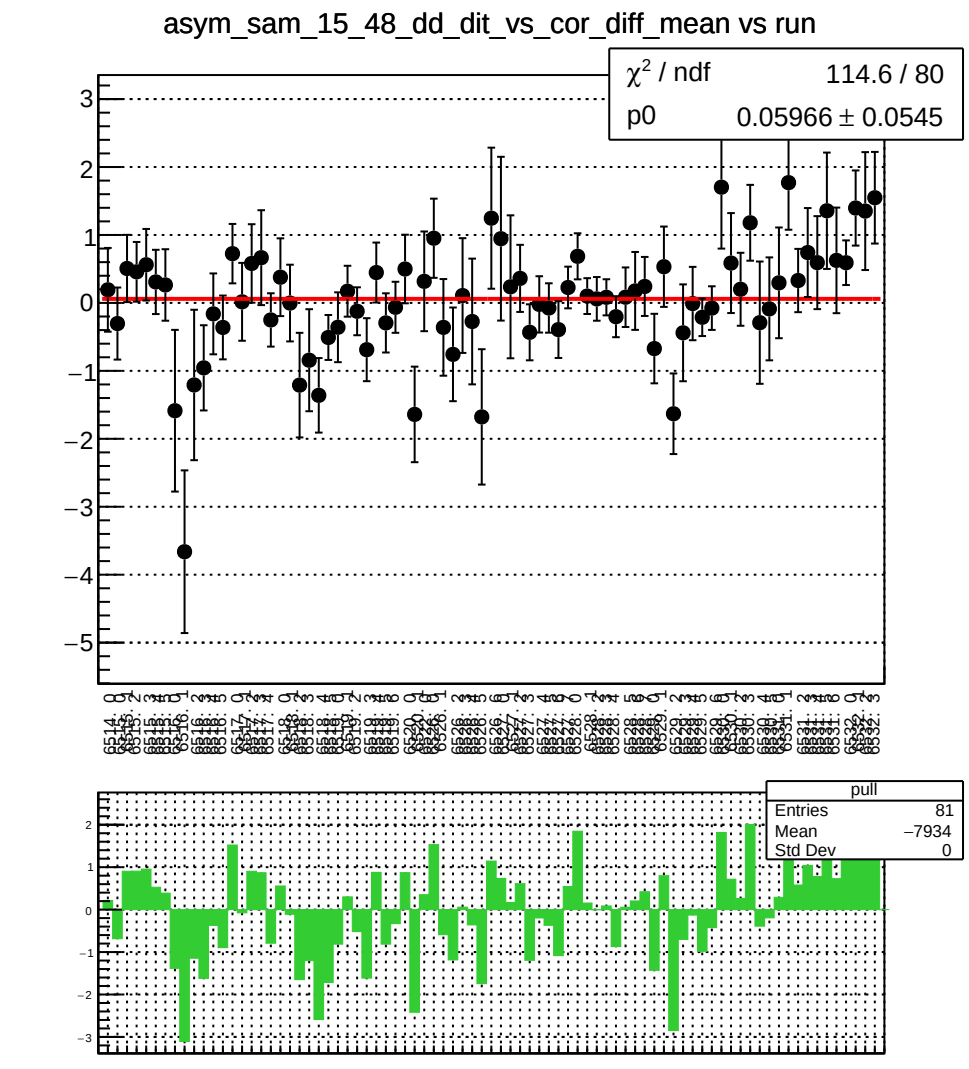

pull1D
Entries 81
Mean 0.005749
Std Dev 0.9065

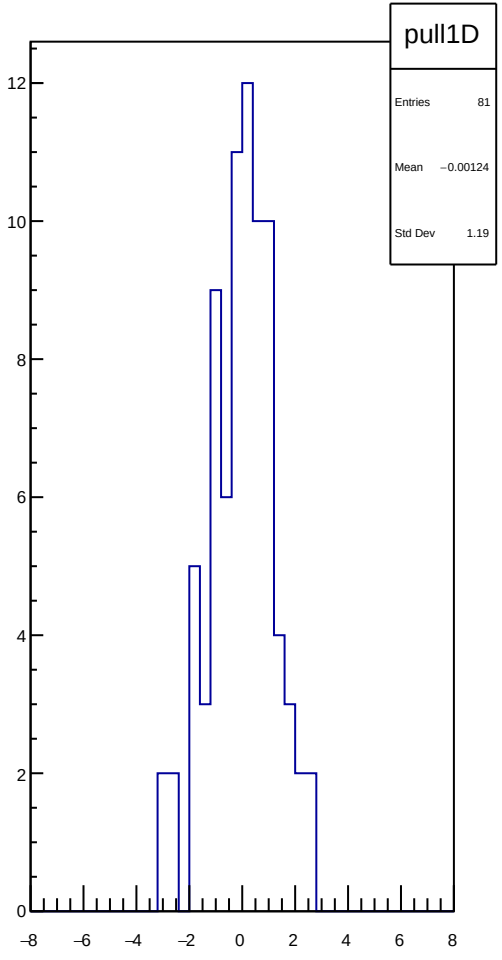

asym_sam_15_48_dd_rms vs run
χ² / ndf 3.439e+04 / 80
p0 580.6 ± 0.47
750
700
650
600
550
500
450

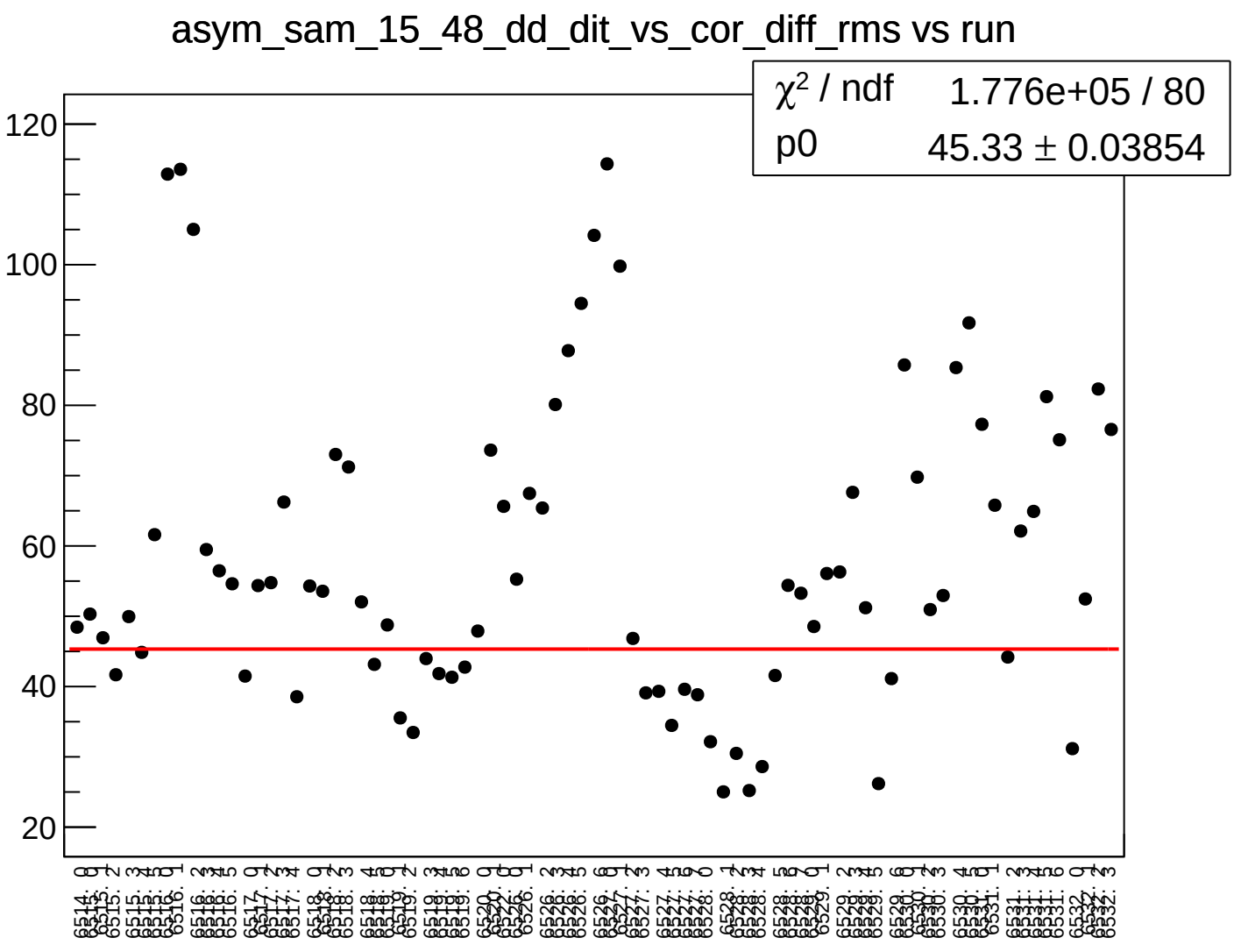

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 80.16 / 80
p0 1.071e−14 ± 1.696e−14
pull
Entries 81
Mean 544.5
Std Dev 0


pull1D
Entries 81
Mean 0.003668
Std Dev 0.9948

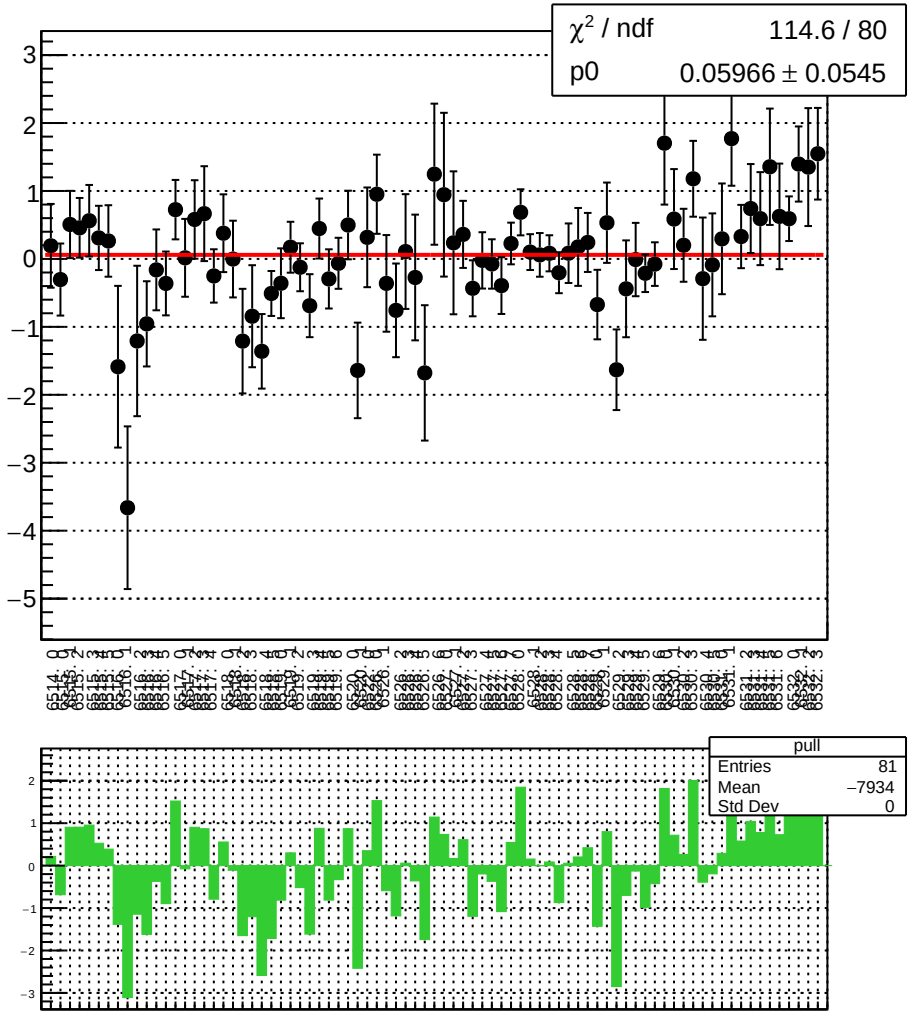

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.539e+05 / 80
p0 9.346e−12 ± 1.2e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

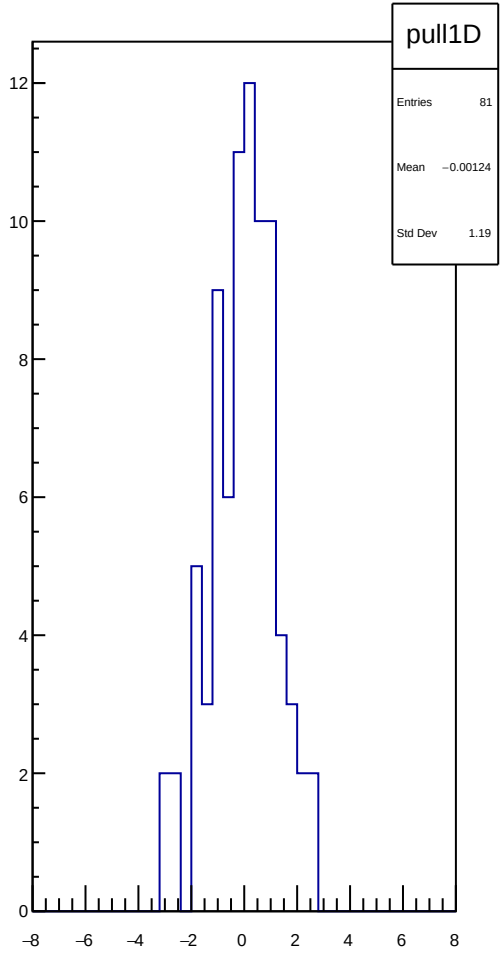

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 114.6 / 80
p0 0.05966 ± 0.0545
pull
Entries 81
Mean −7934
Std Dev 0

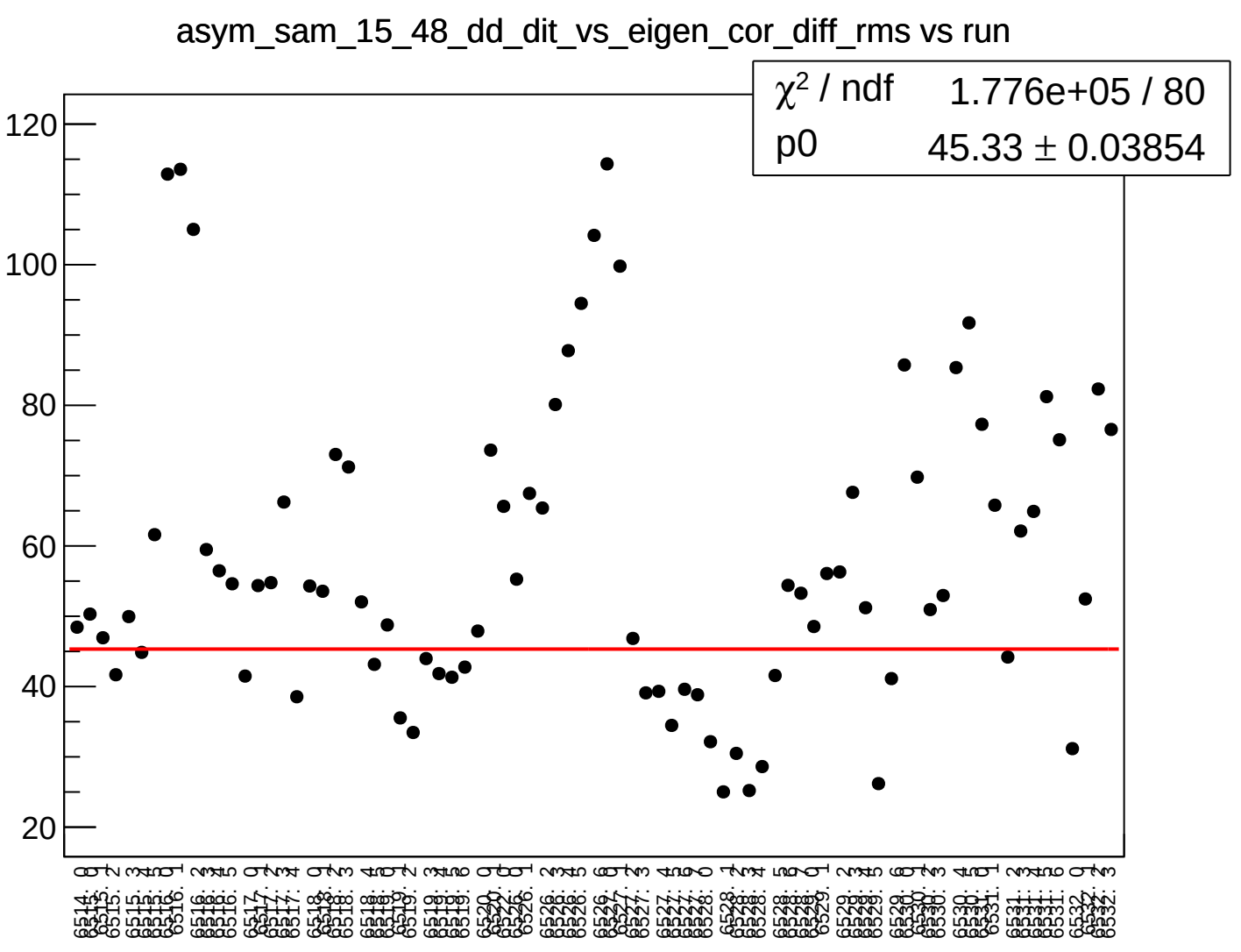

pull1D
Entries 81
Mean −0.00124
Std Dev 1.19

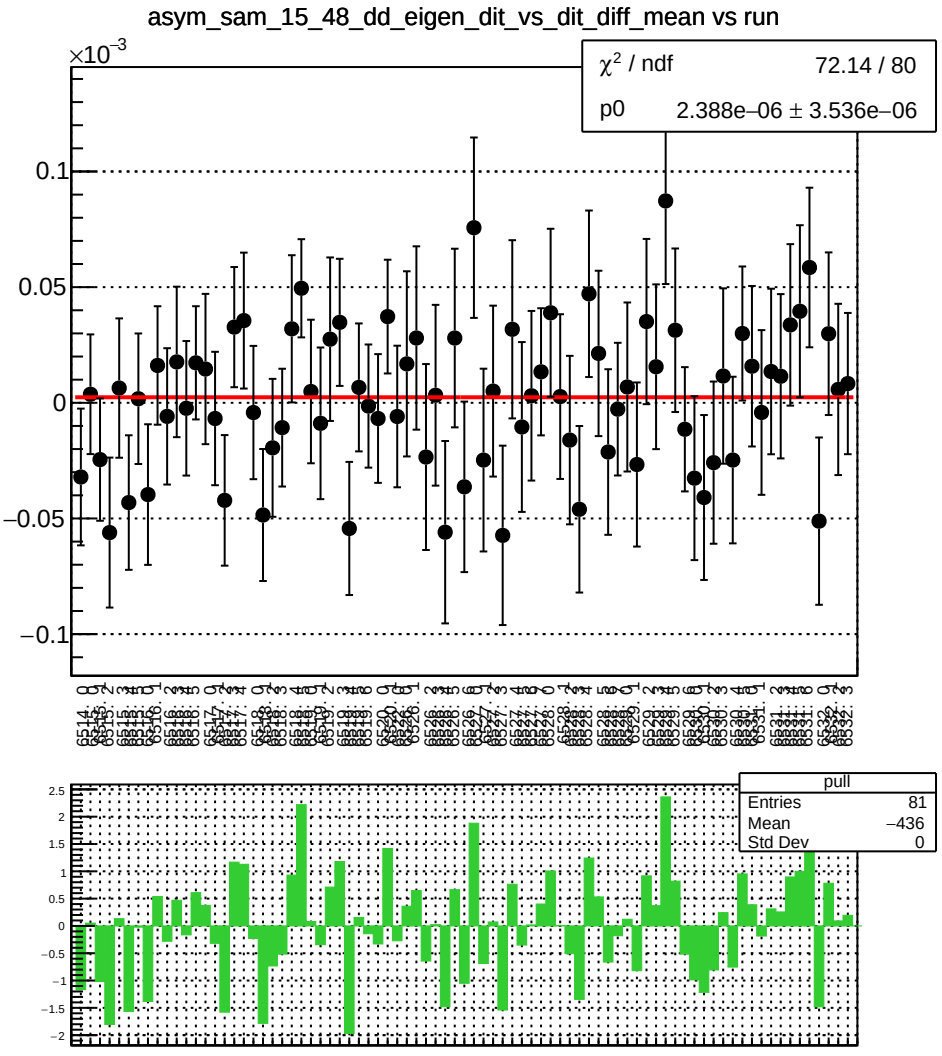

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.776e+05 / 80
p0 45.33 ± 0.03854
120
100
80
60
40
20

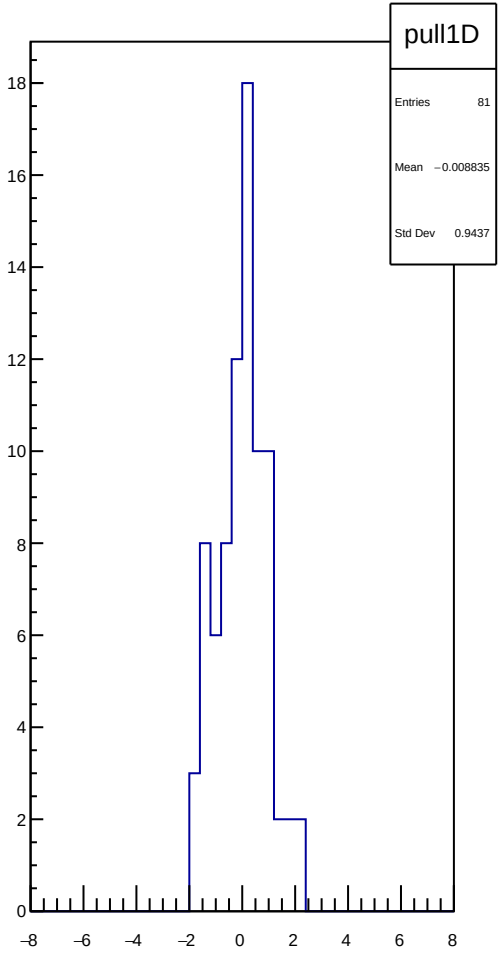
asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run

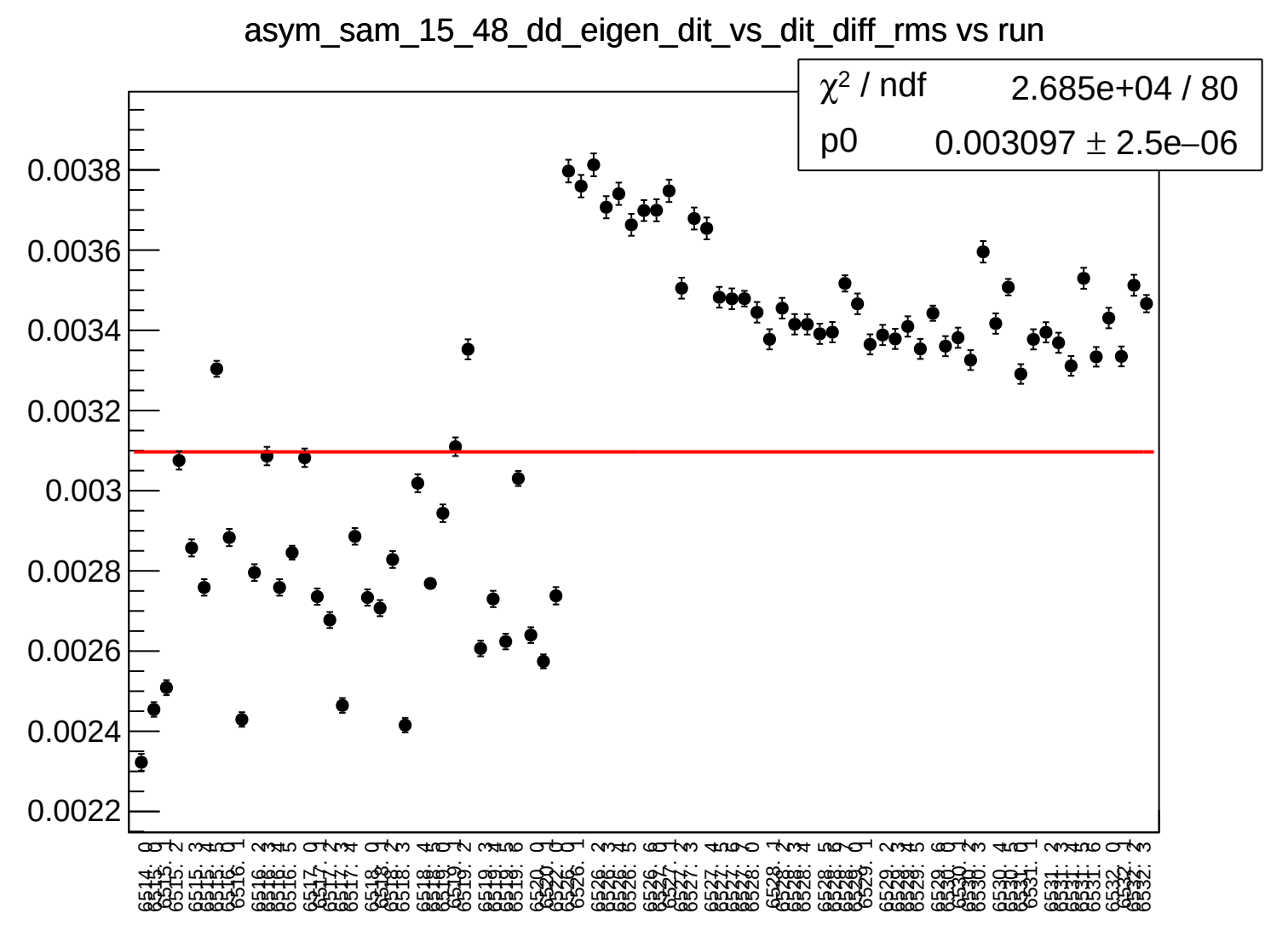


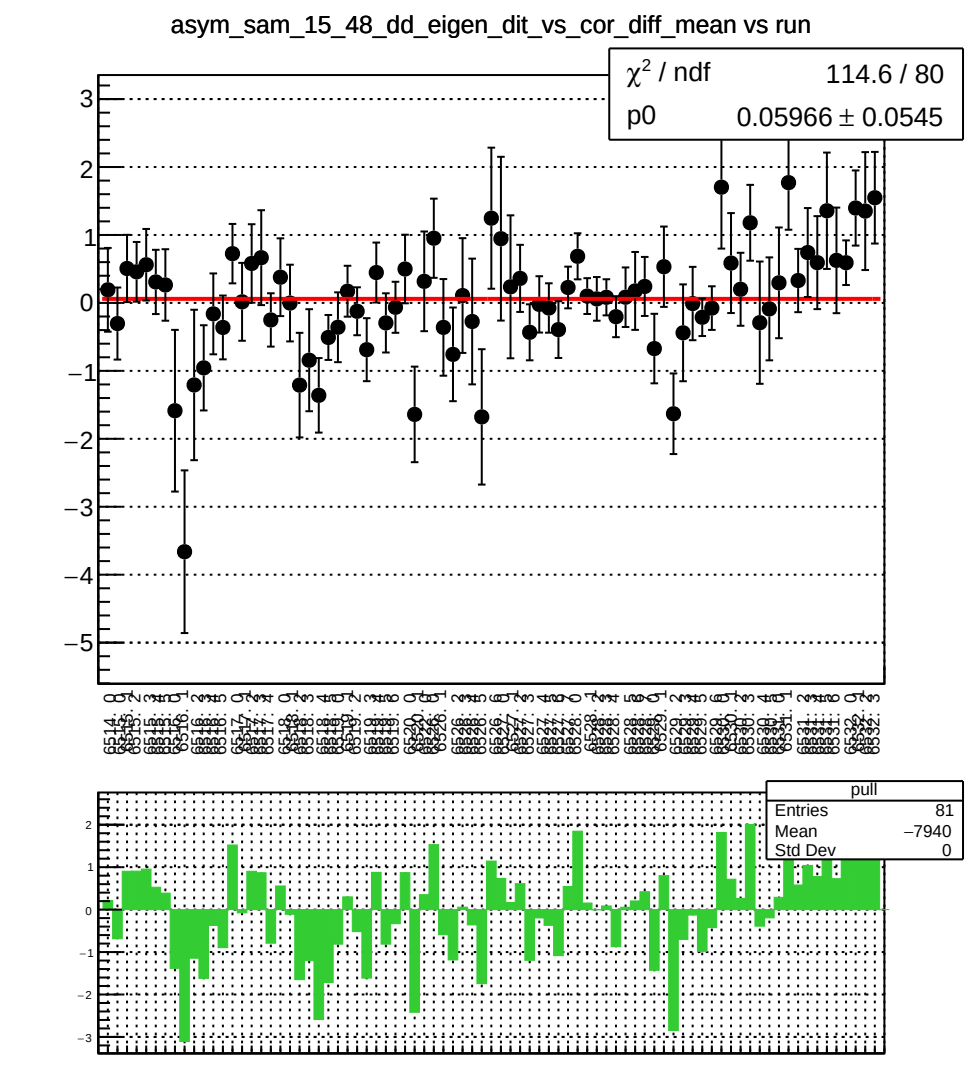


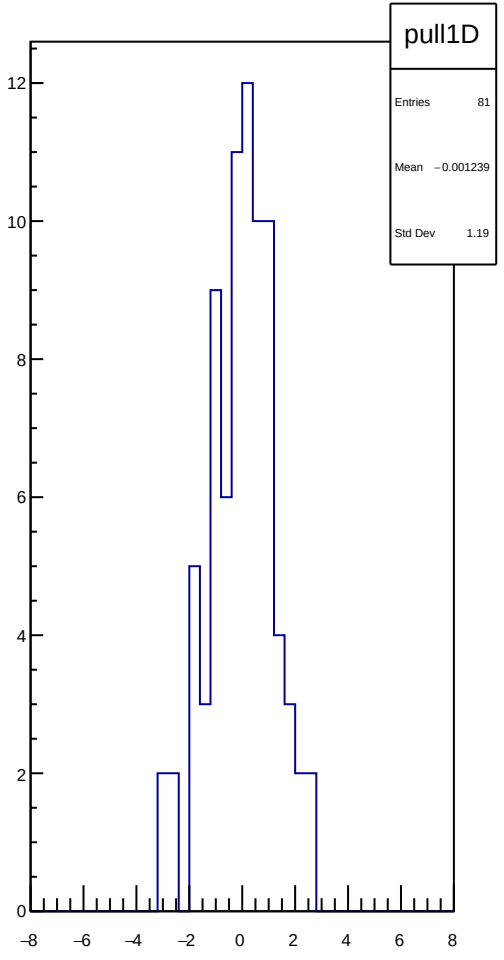

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.776e+05 / 80
p0 45.33 ± 0.03854
120
100
80
60
40
20

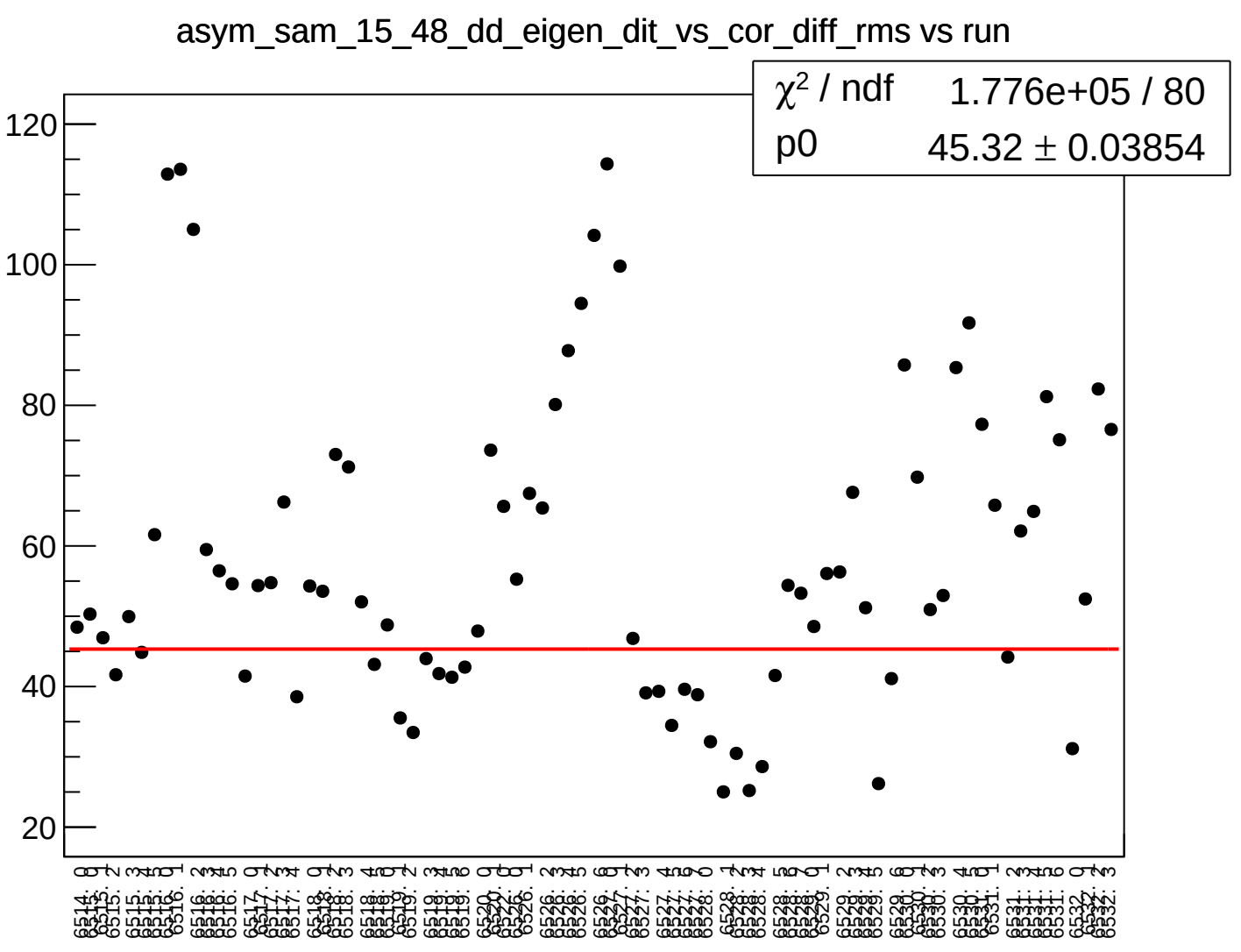

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.14 / 80
p0 2.388e−06 ± 3.536e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 81
Mean −436
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

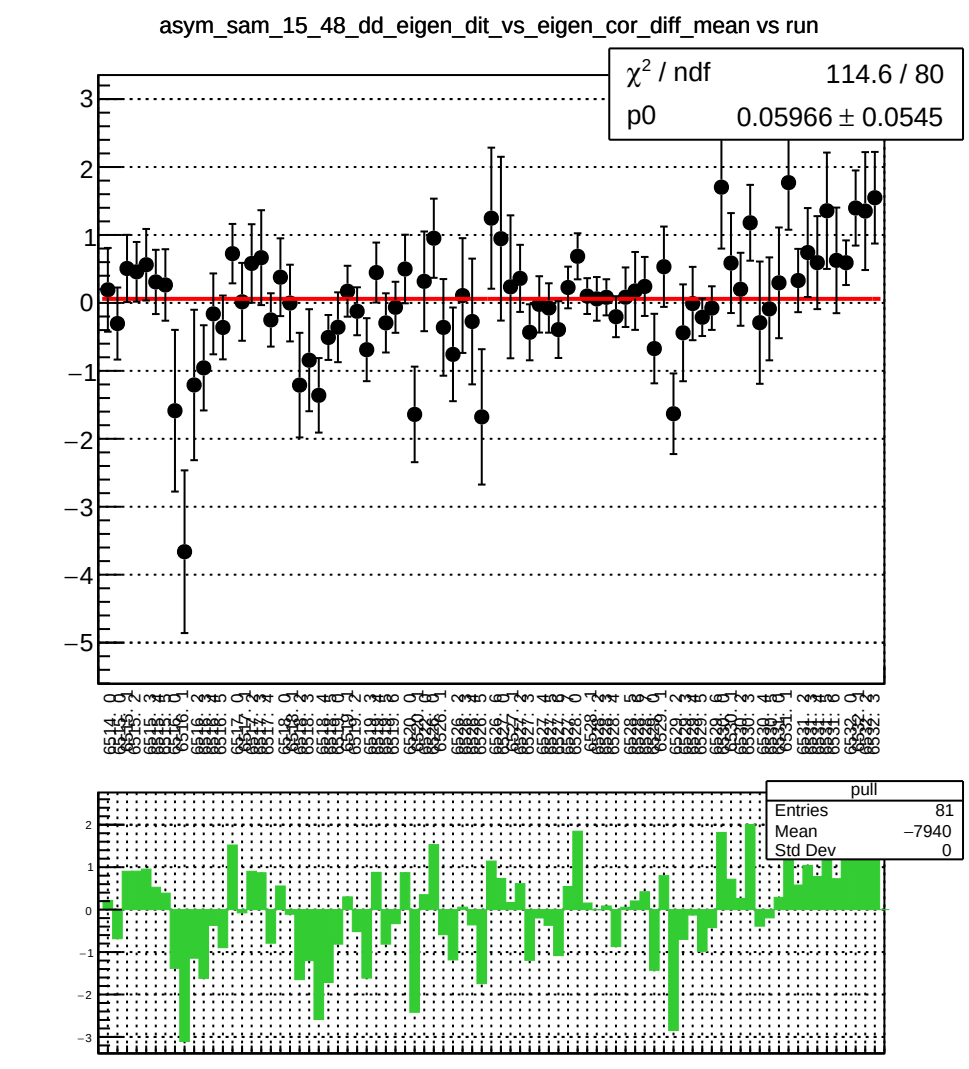

pull1D
Entries 81
Mean −0.008835
Std Dev 0.9437
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

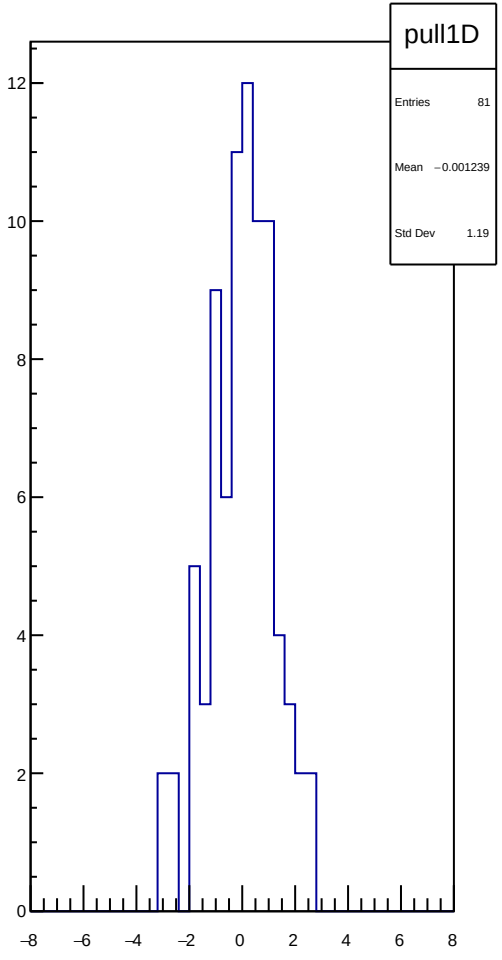

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.685e+04 / 80
p0 0.003097 ± 2.5e−06
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022

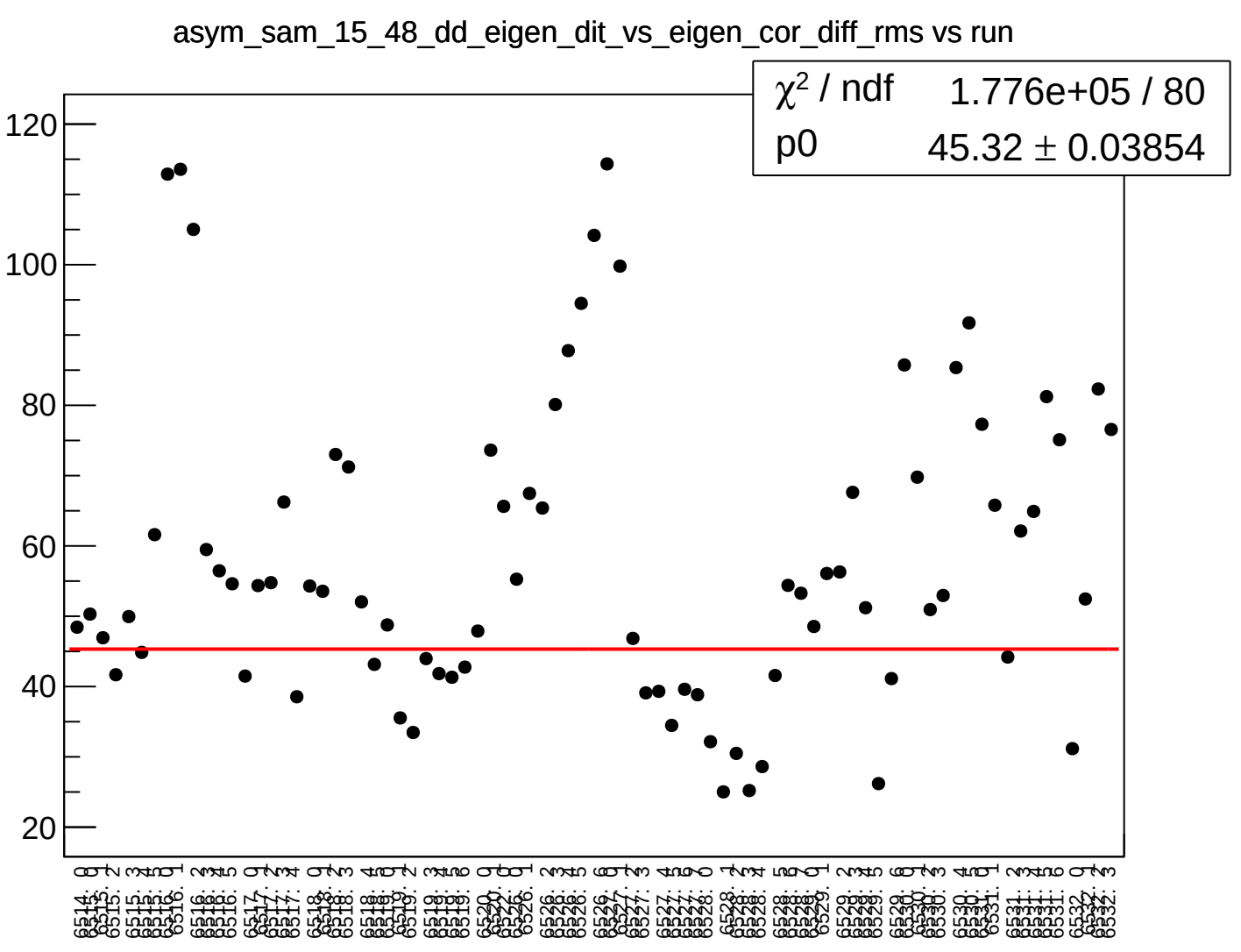

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 114.6 / 80
p0 0.05966 ± 0.0545
pull
Entries 81
Mean −7940
Std Dev 0

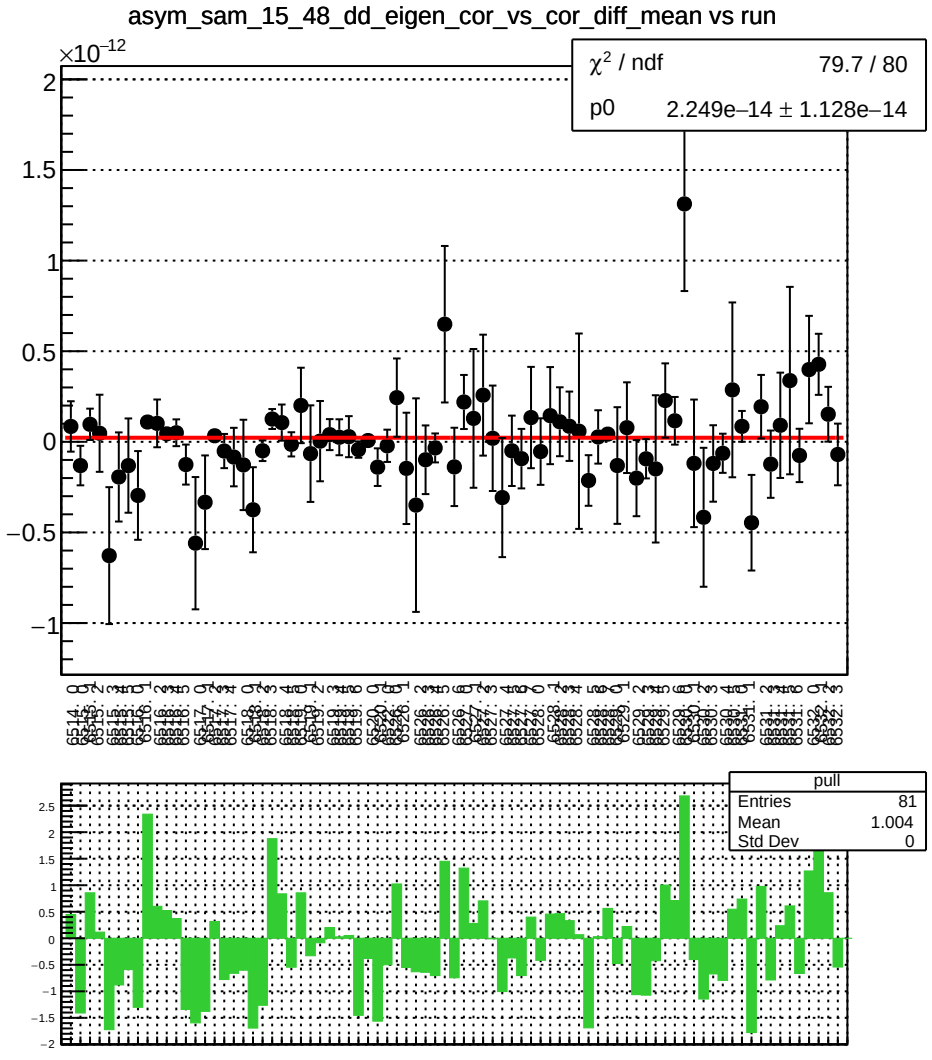

pull1D
Entries 81
Mean −0.001239
Std Dev 1.19

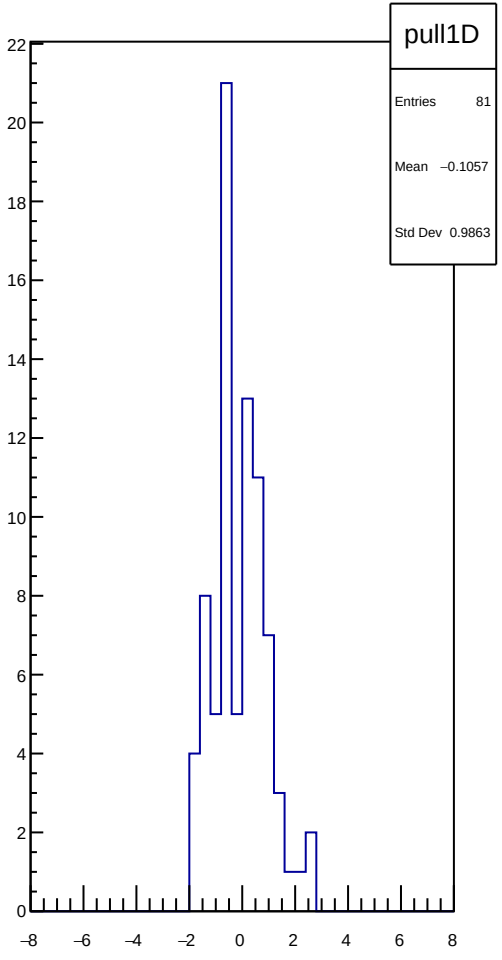

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.776e+05 / 80
p0 45.32 ± 0.03854
120
100
80
60
40
20

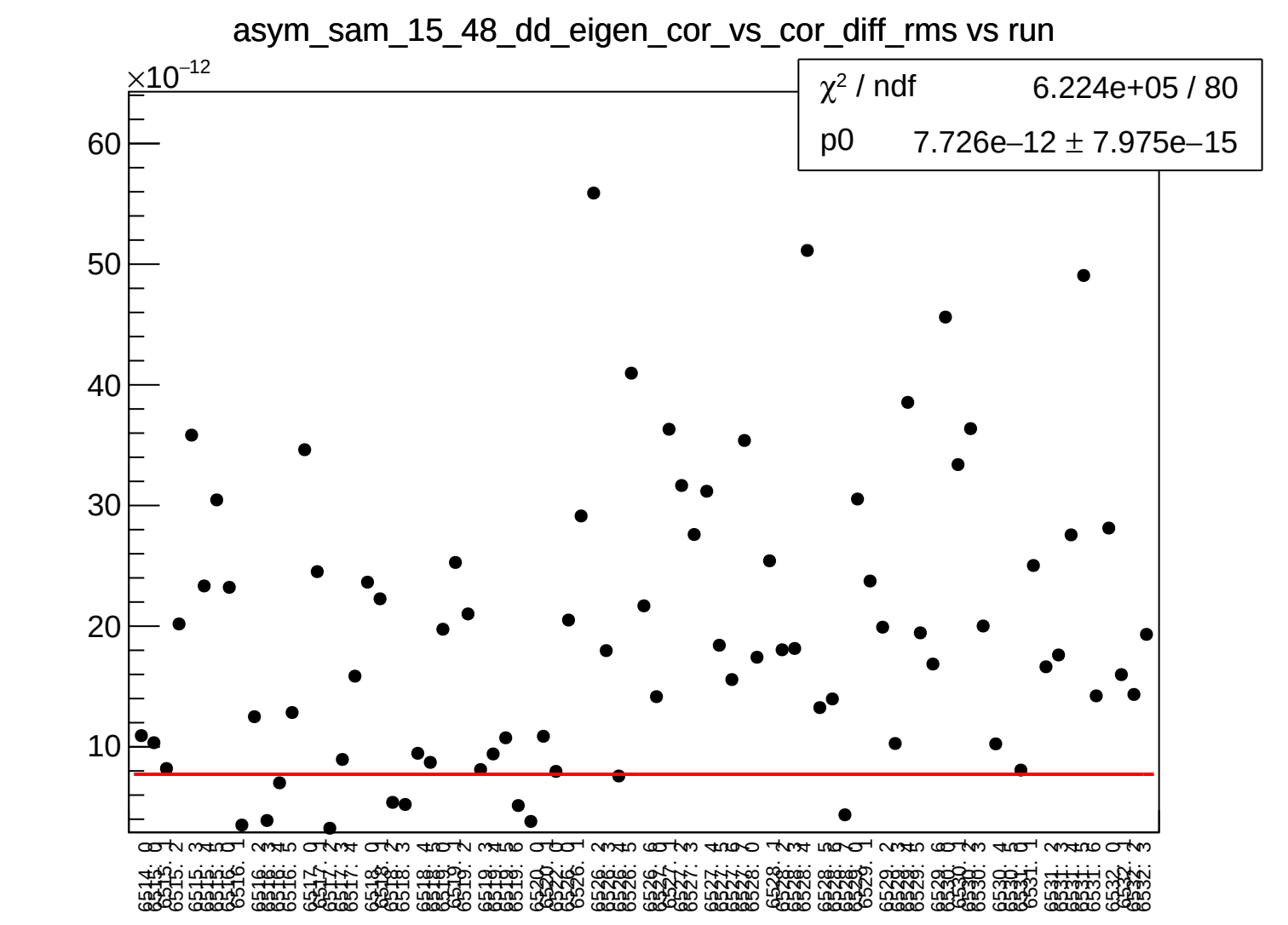

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 114.6 / 80
p0 0.05966 ± 0.0545
pull
Entries 81
Mean −7940
Std Dev 0

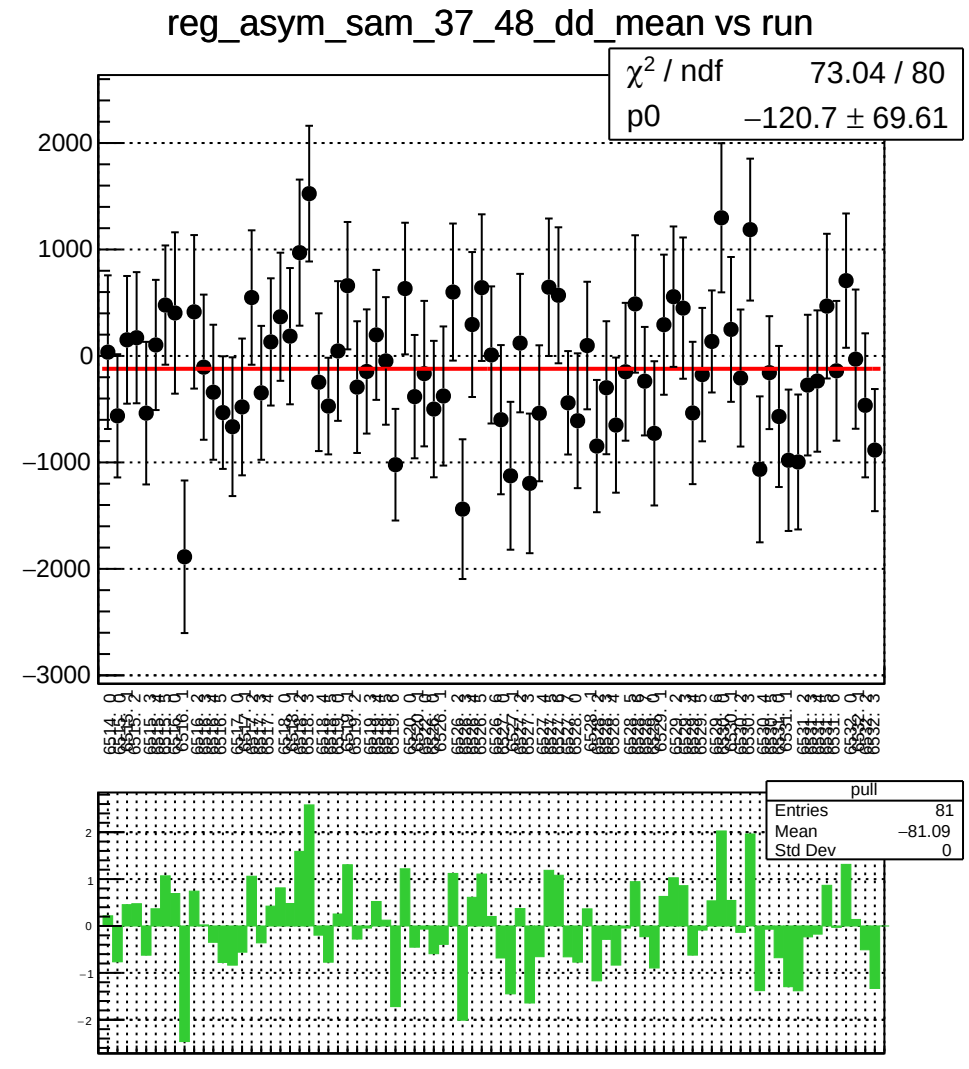

pull1D
Entries 81
Mean −0.001239
Std Dev 1.19

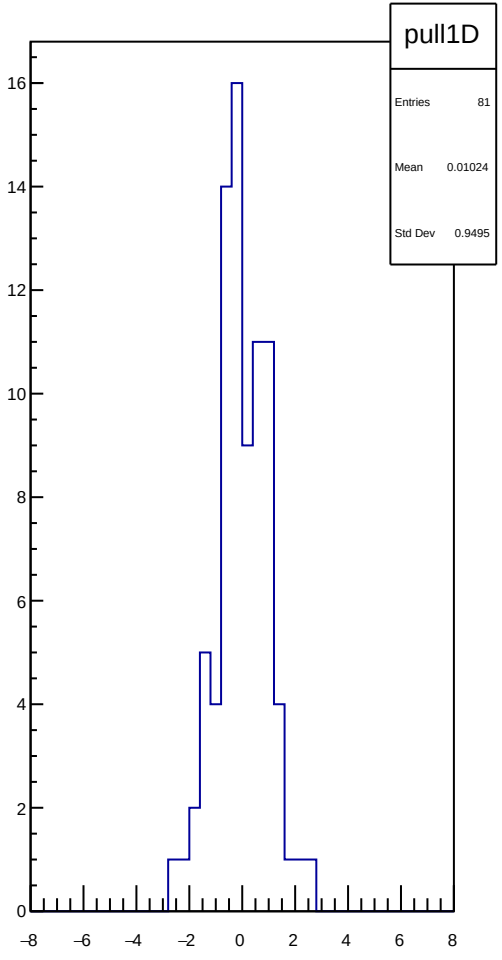

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.776e+05 / 80
p0 45.32 ± 0.03854
120
100
80
60
40
20

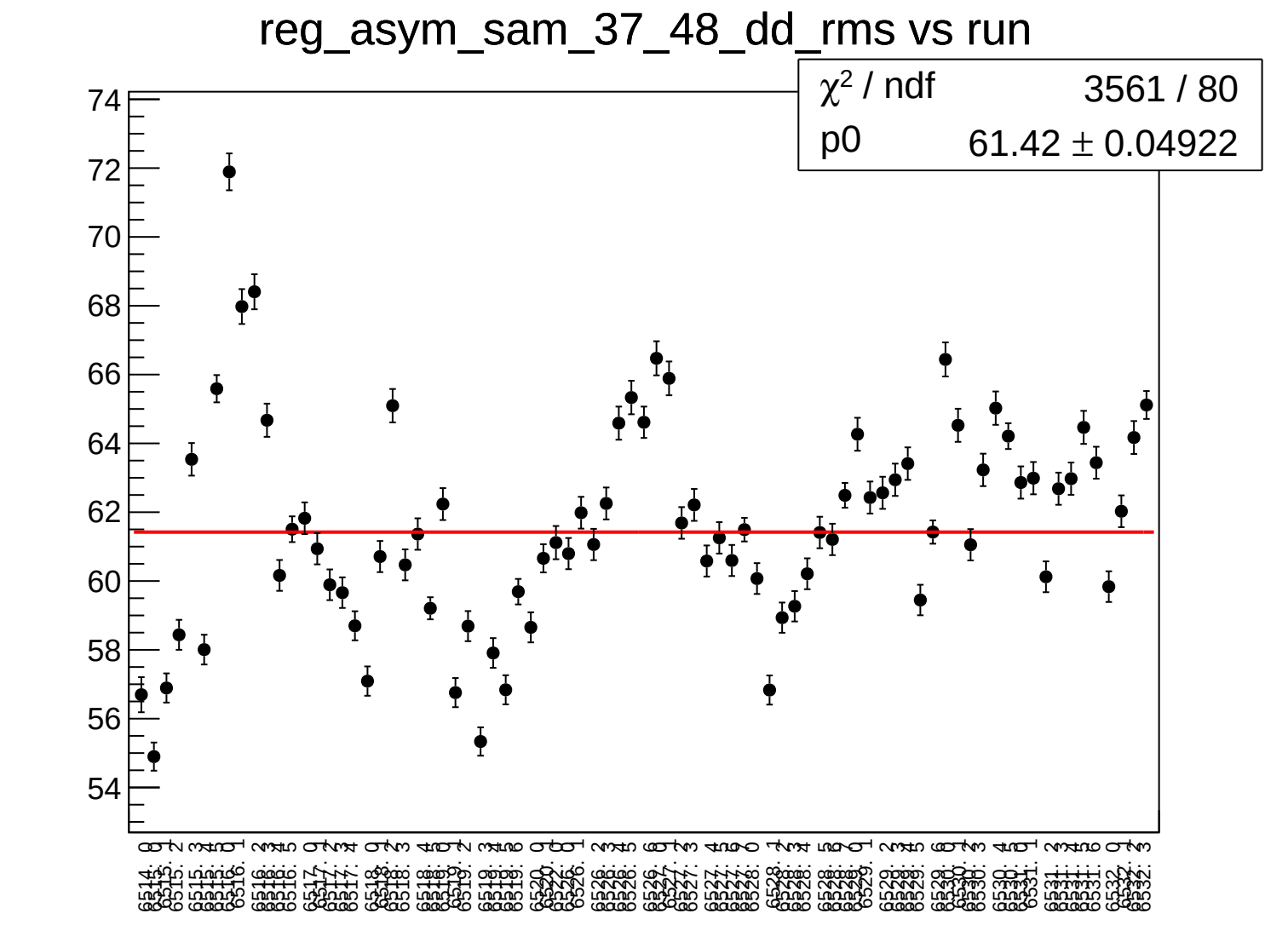

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.7 / 80
p0 2.249e−14 ± 1.128e−14
pull
Entries 81
Mean 1.004
Std Dev 0

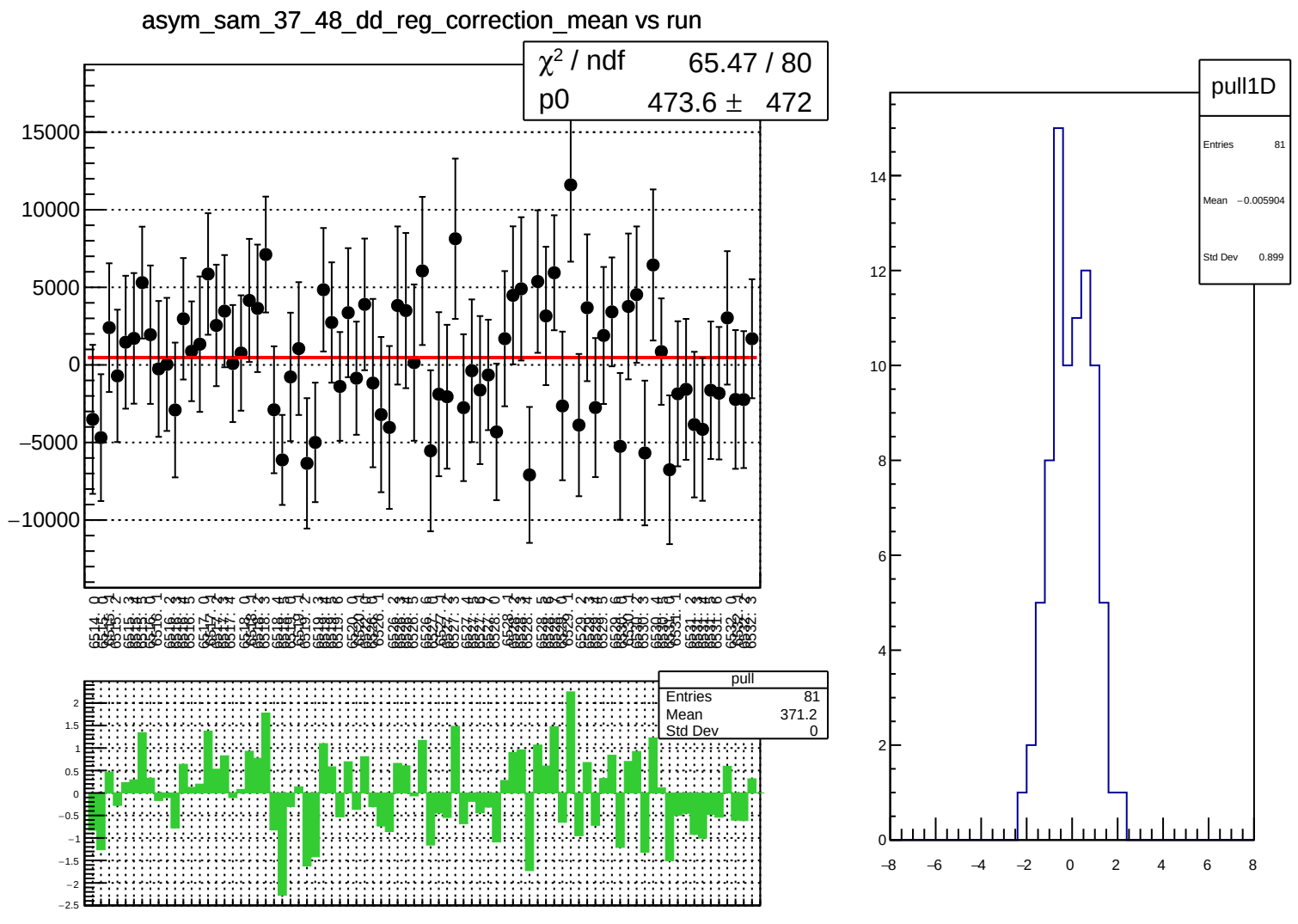

pull1D
Entries 81
Mean −0.1057
Std Dev 0.9863

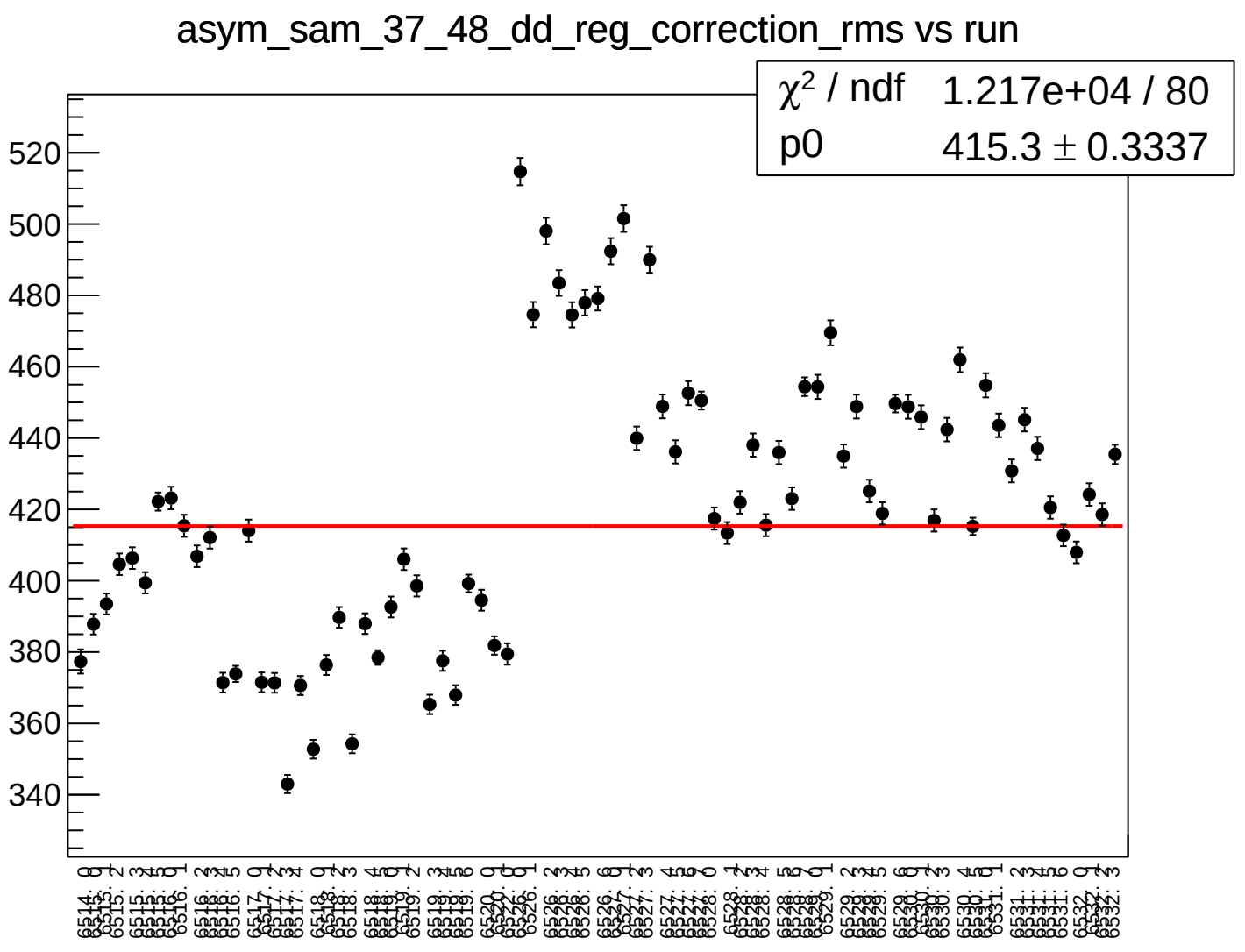

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.224e+05 / 80
p0 7.726e−12 ± 7.975e−15
60
50
40
30
20
10

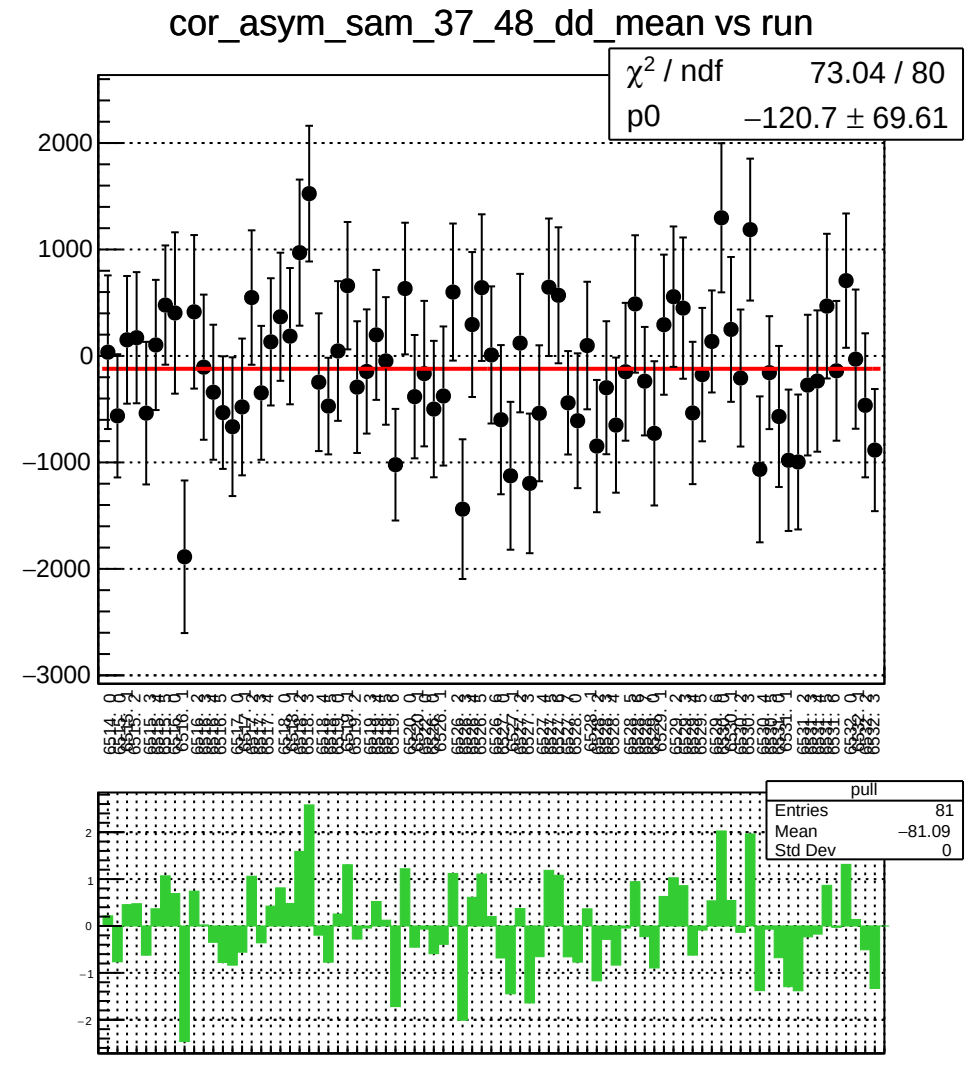

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 73.04 / 80
p0 −120.7 ± 69.61
pull
Entries 81
Mean −81.09
Std Dev 0

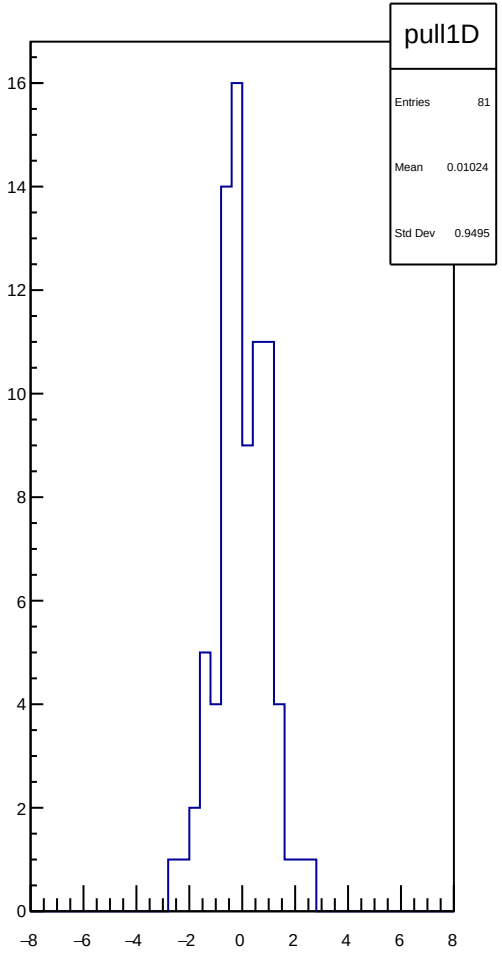

pull1D
Entries 81
Mean 0.01024
Std Dev 0.9495

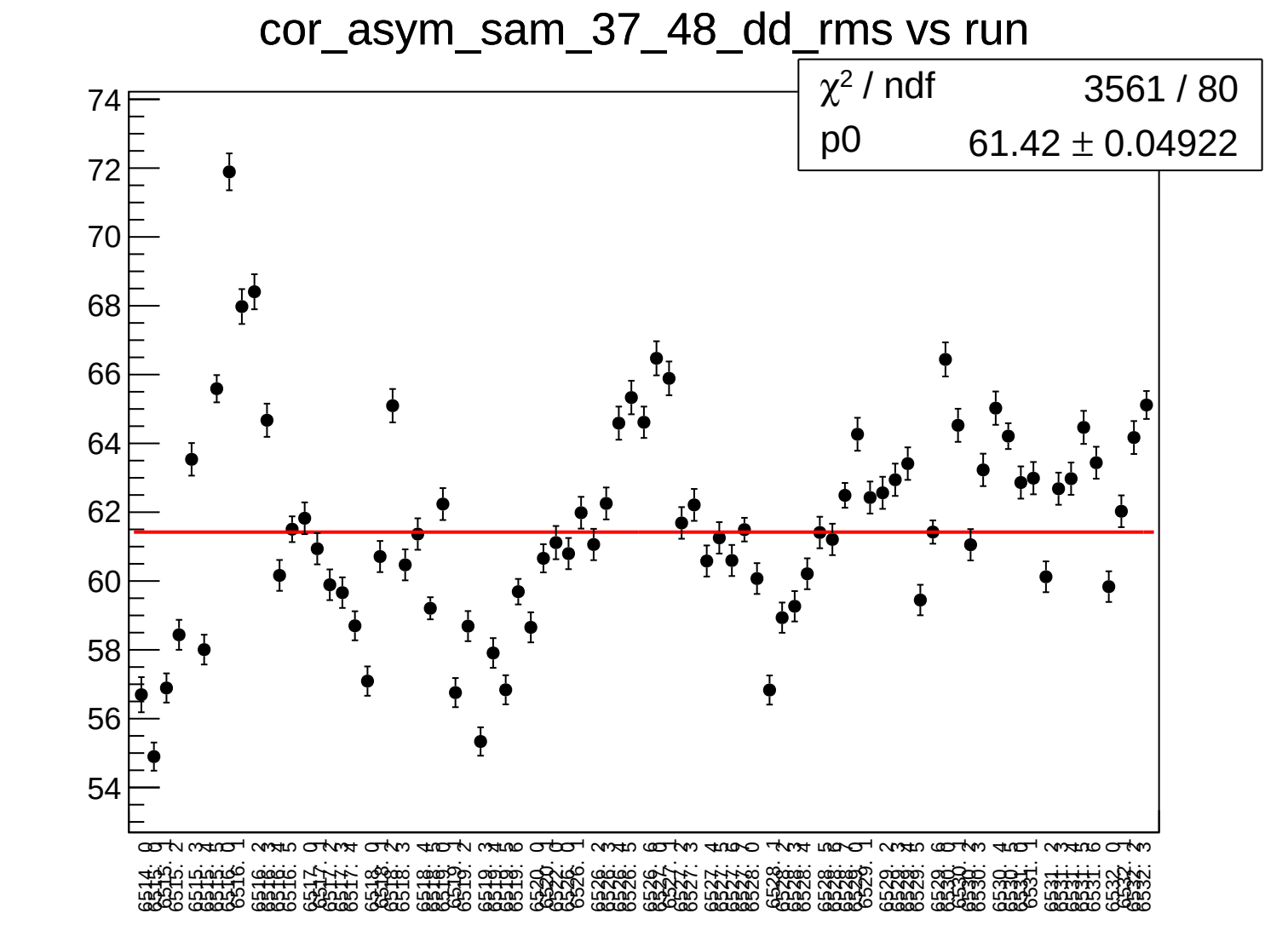

reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 3561 / 80
p0 61.42 ± 0.04922
74
72
70
68
66
64
62
60
58
56
54

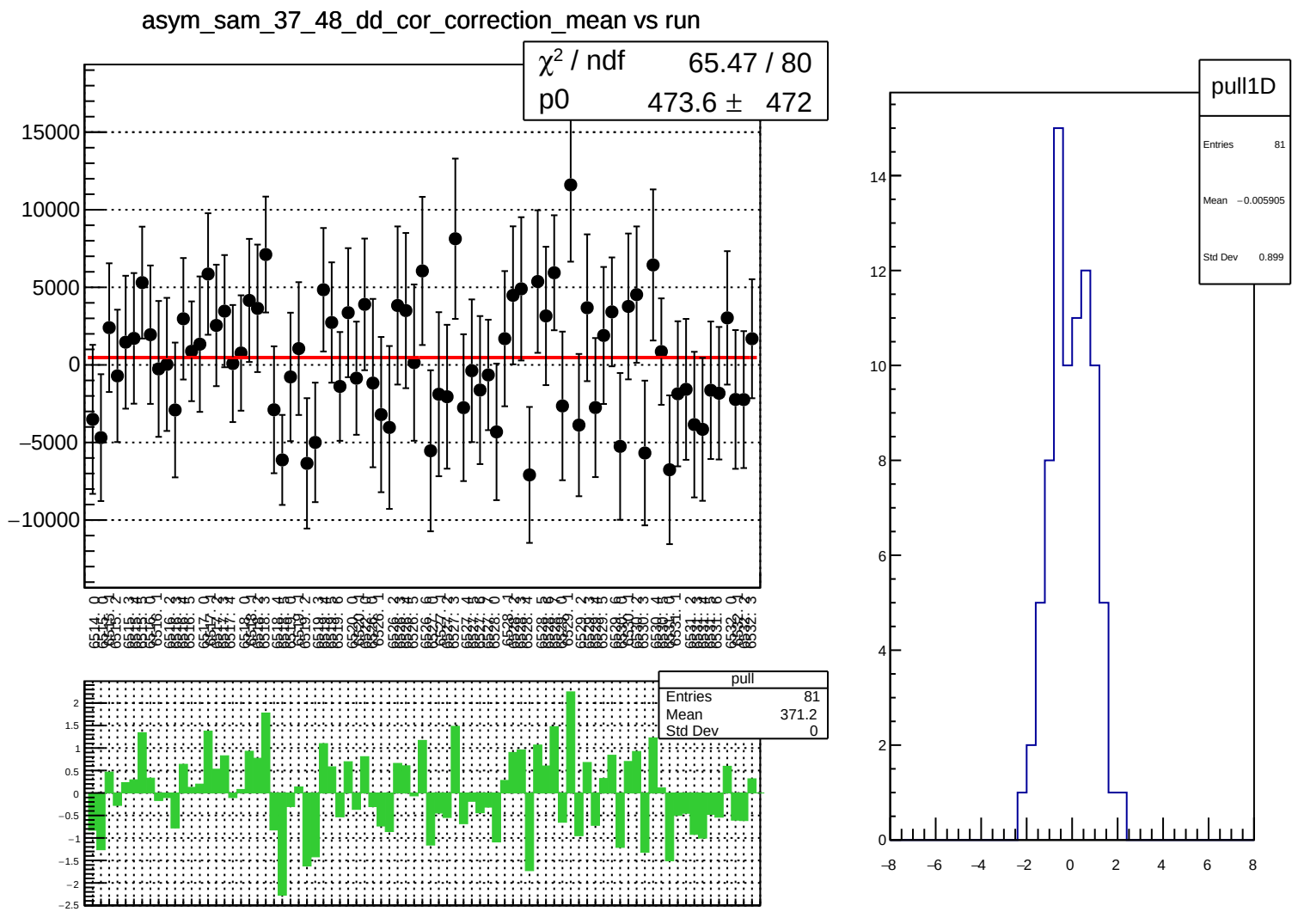

asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 65.47 / 80
p0 473.6 ± 472
15000
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 371.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 81
Mean −0.005904
Std Dev 0.899
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

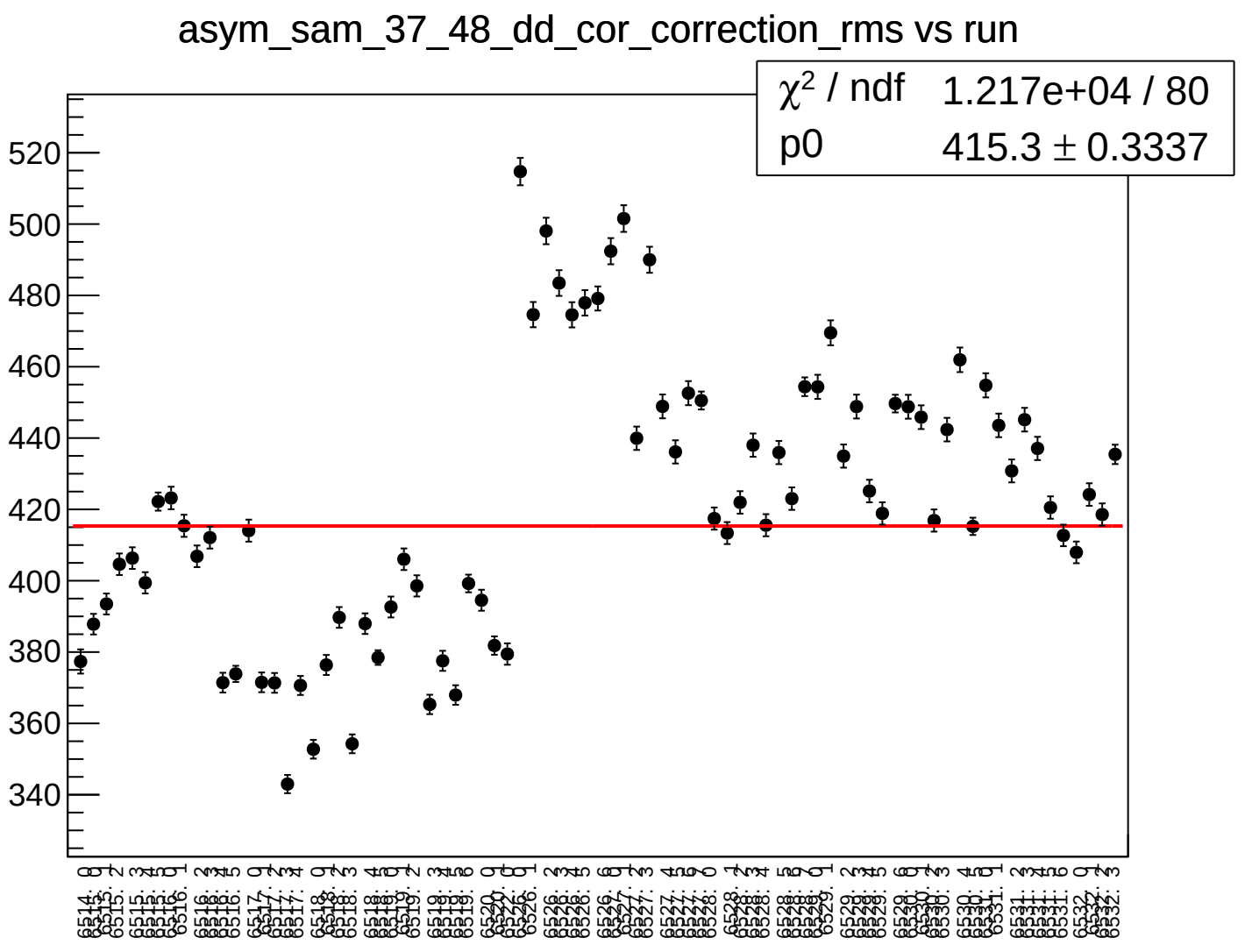

asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 1.217e+04 / 80
p0 415.3 ± 0.3337
520
500
480
460
440
420
400
380
360
340

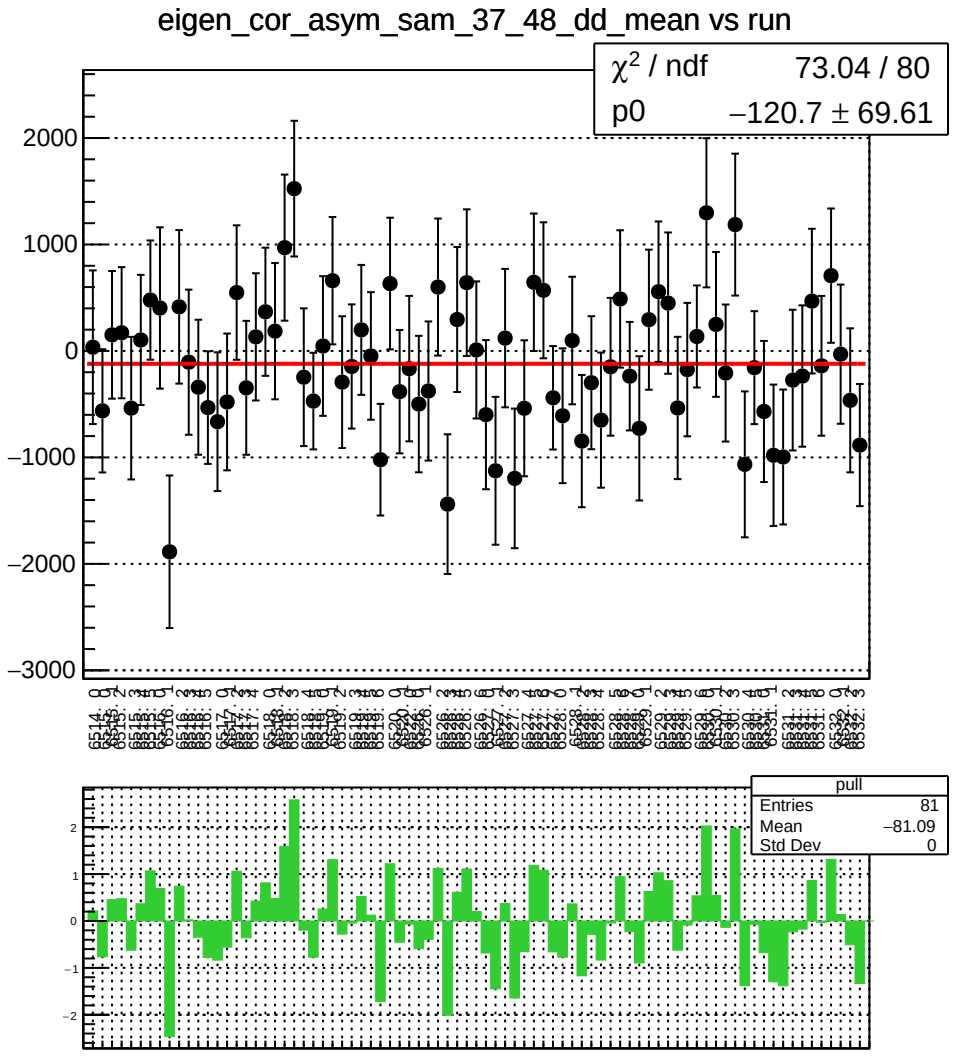

cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 73.04 / 80
p0 −120.7 ± 69.61
pull
Entries 81
Mean −81.09
Std Dev 0

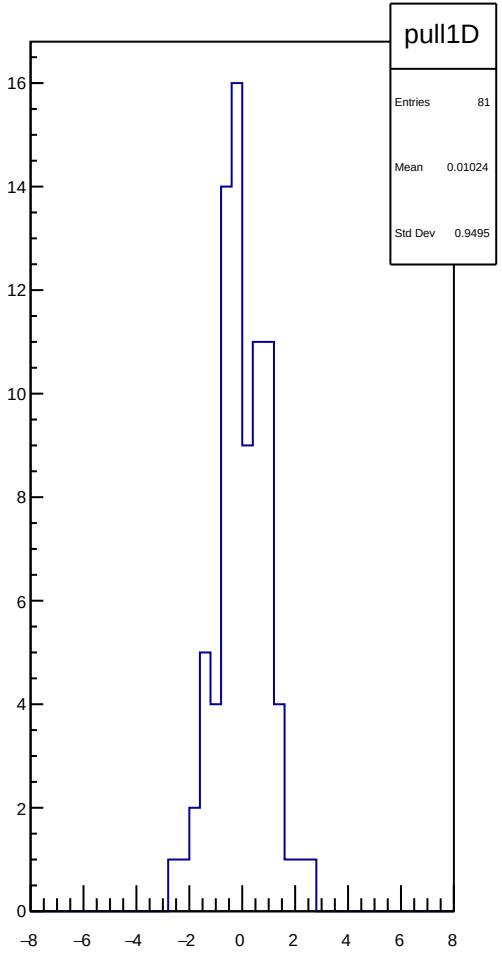

pull1D
Entries 81
Mean 0.01024
Std Dev 0.9495

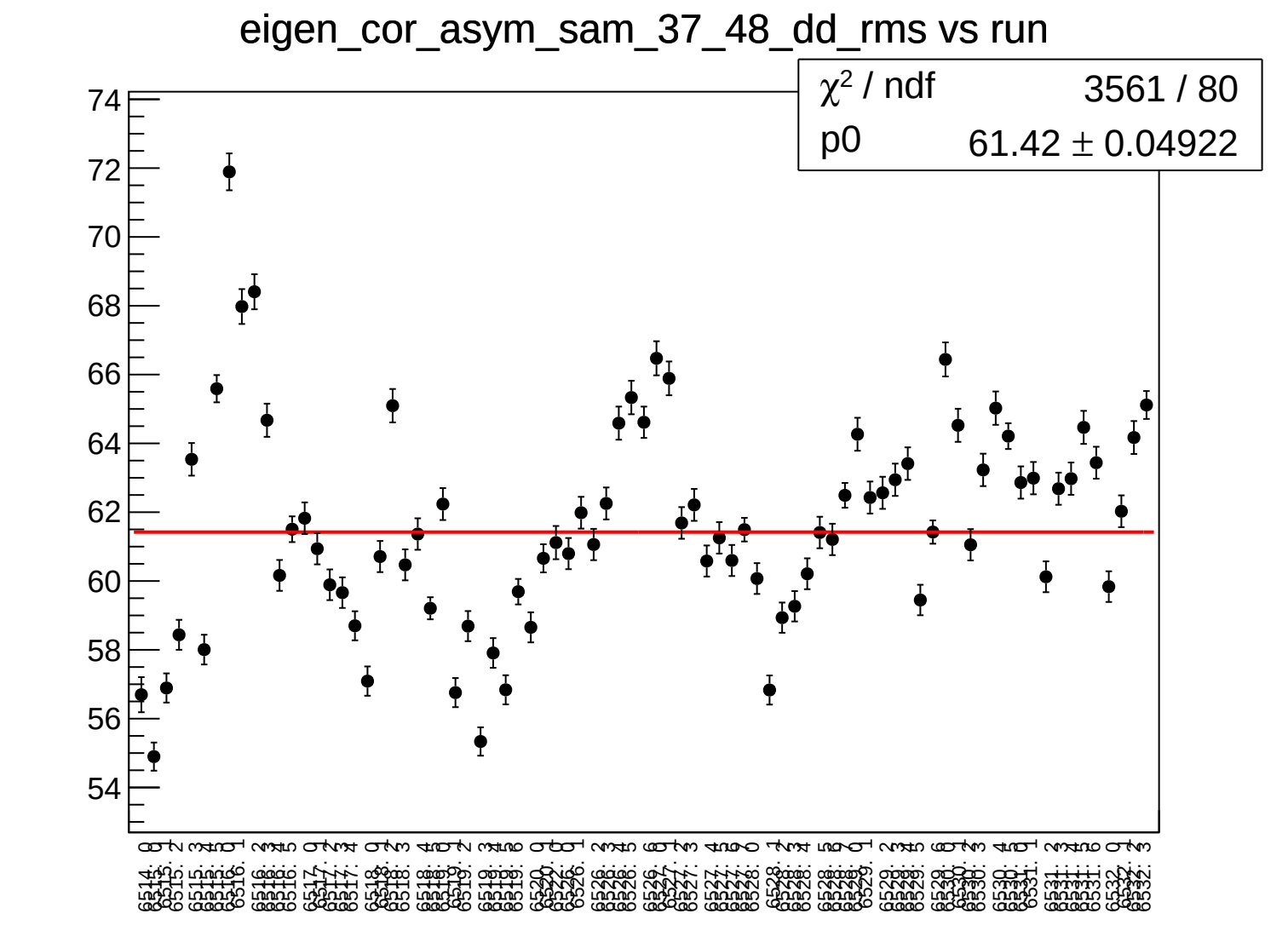

cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 3561 / 80
p0 61.42 ± 0.04922
74
72
70
68
66
64
62
60
58
56
54

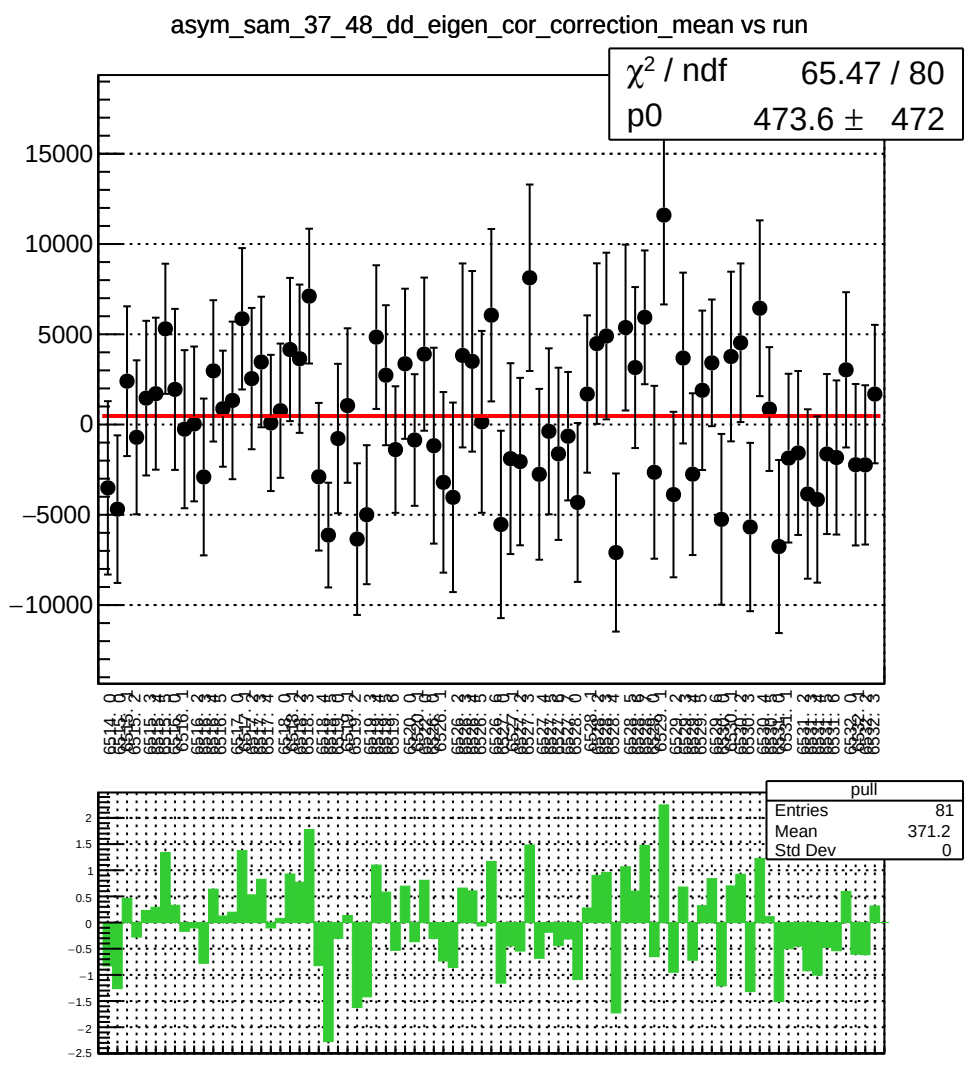

asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 65.47 / 80
p0 473.6 ± 472
15000
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 371.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 81
Mean −0.005905
Std Dev 0.899
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

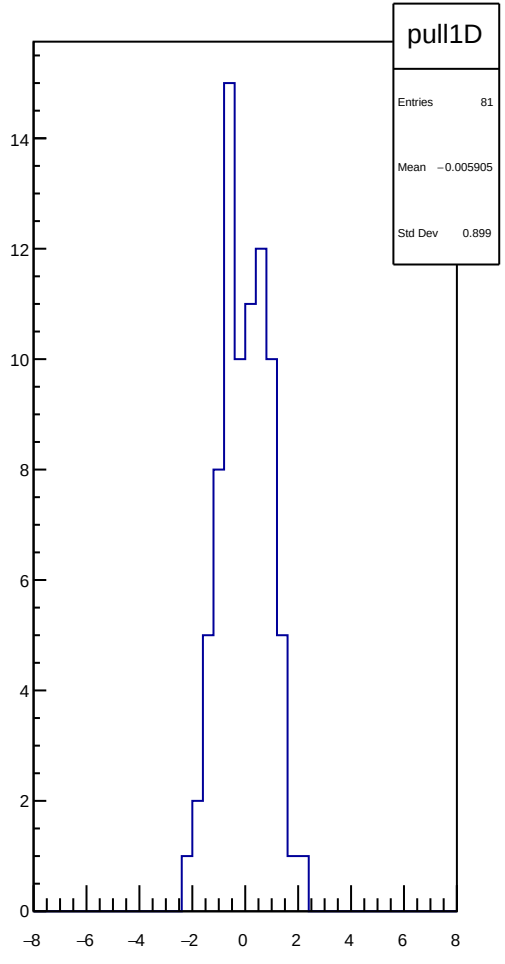

asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 1.217e+04 / 80
p0 415.3 ± 0.3337
520
500
480
460
440
420
400
380
360
340

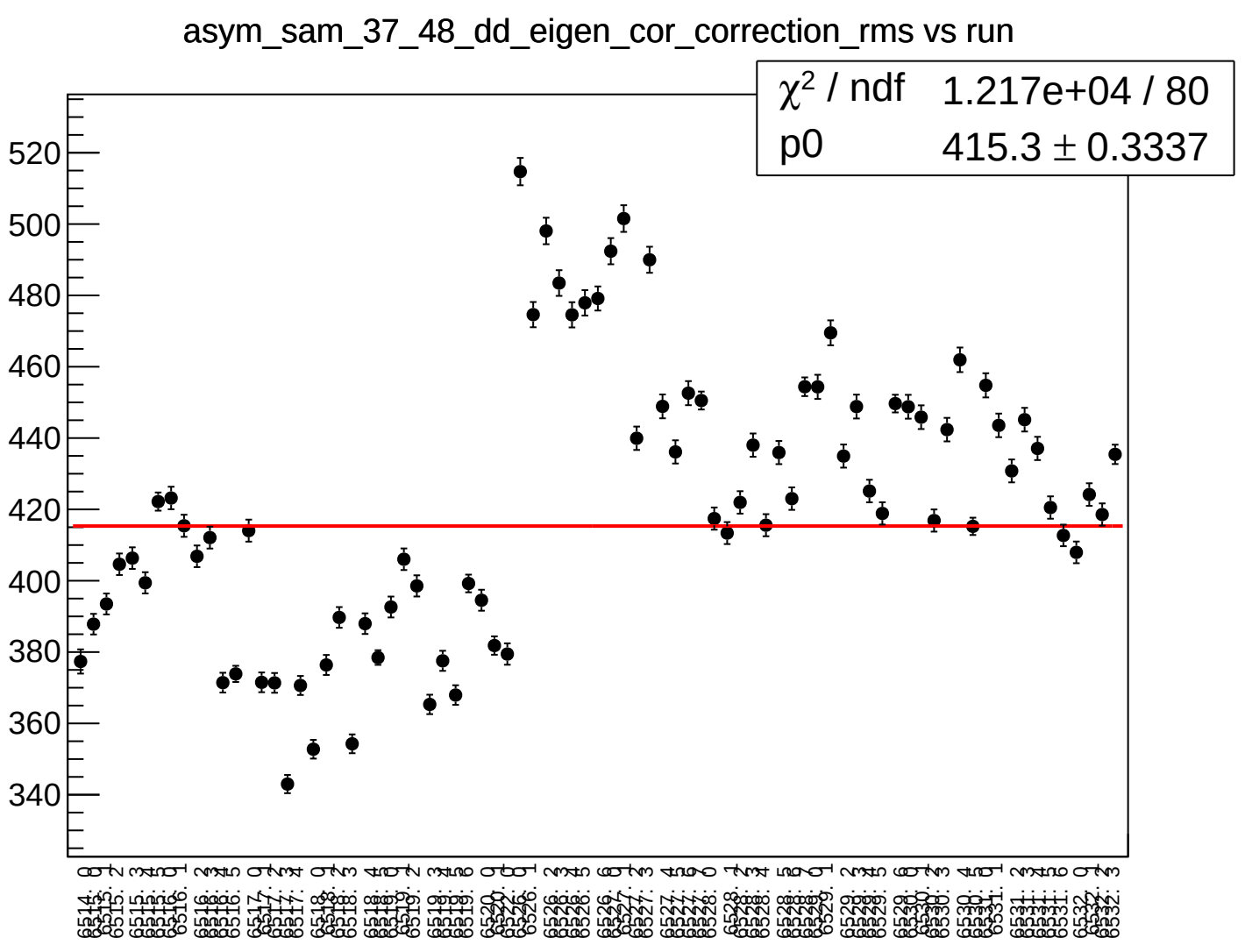

eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 73.04 / 80
p0 −120.7 ± 69.61
pull
Entries 81
Mean −81.09
Std Dev 0

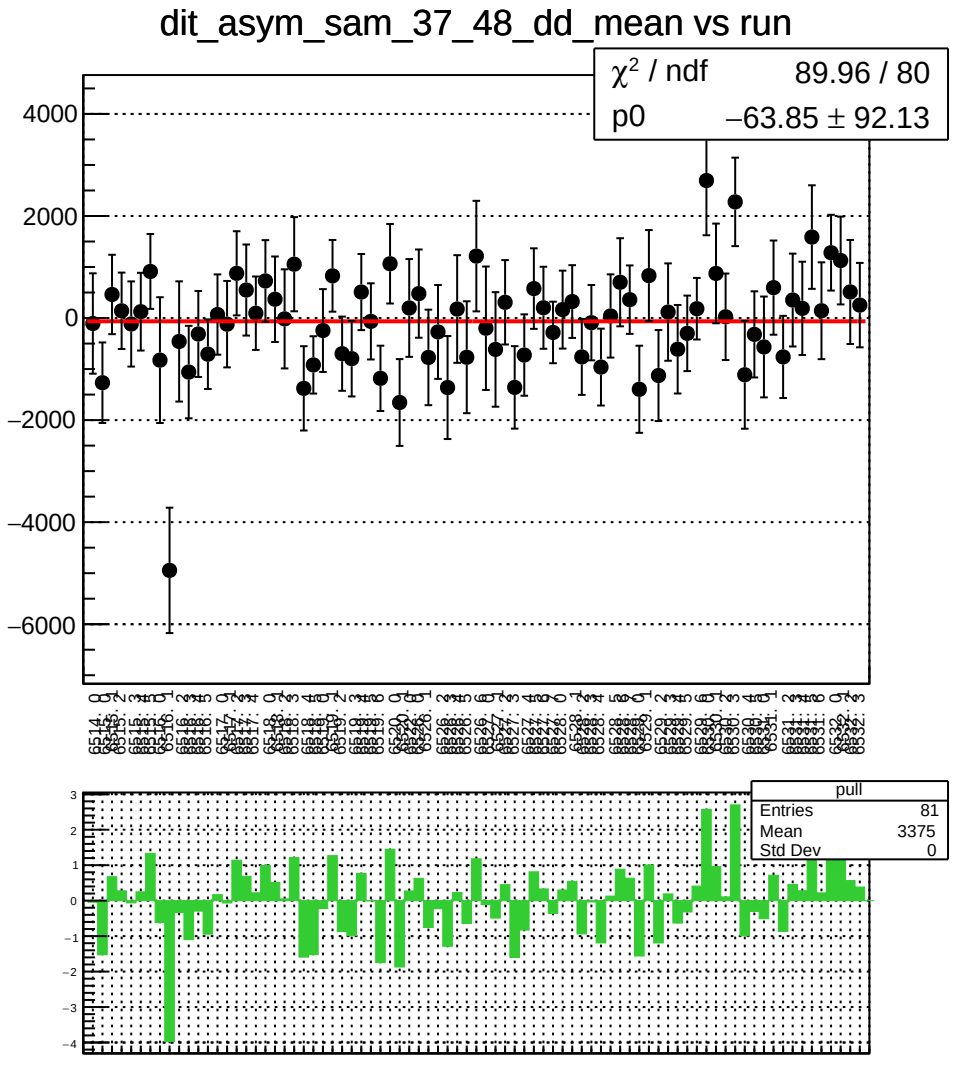

pull1D
Entries 81
Mean 0.01024
Std Dev 0.9495

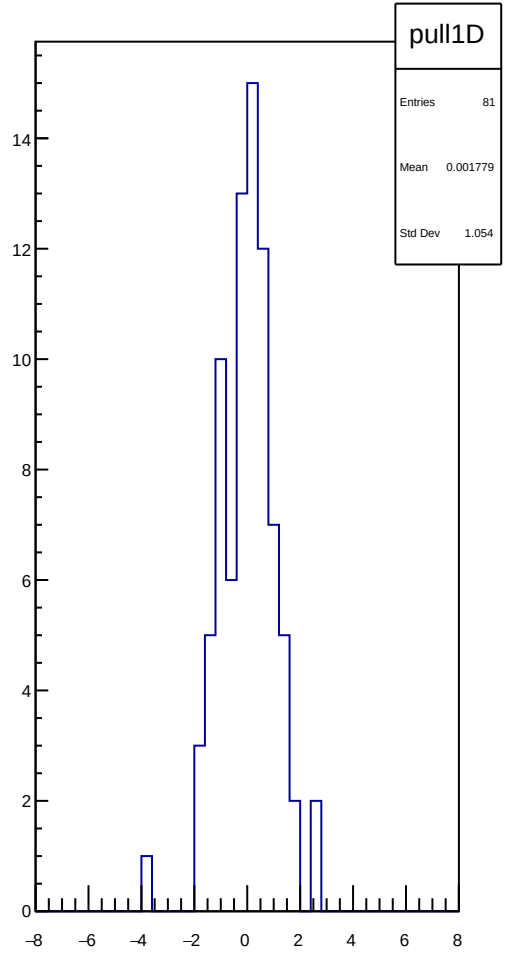

eigen_cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 3561 / 80
p0 61.42 ± 0.04922
74
72
70
68
66
64
62
60
58
56
54

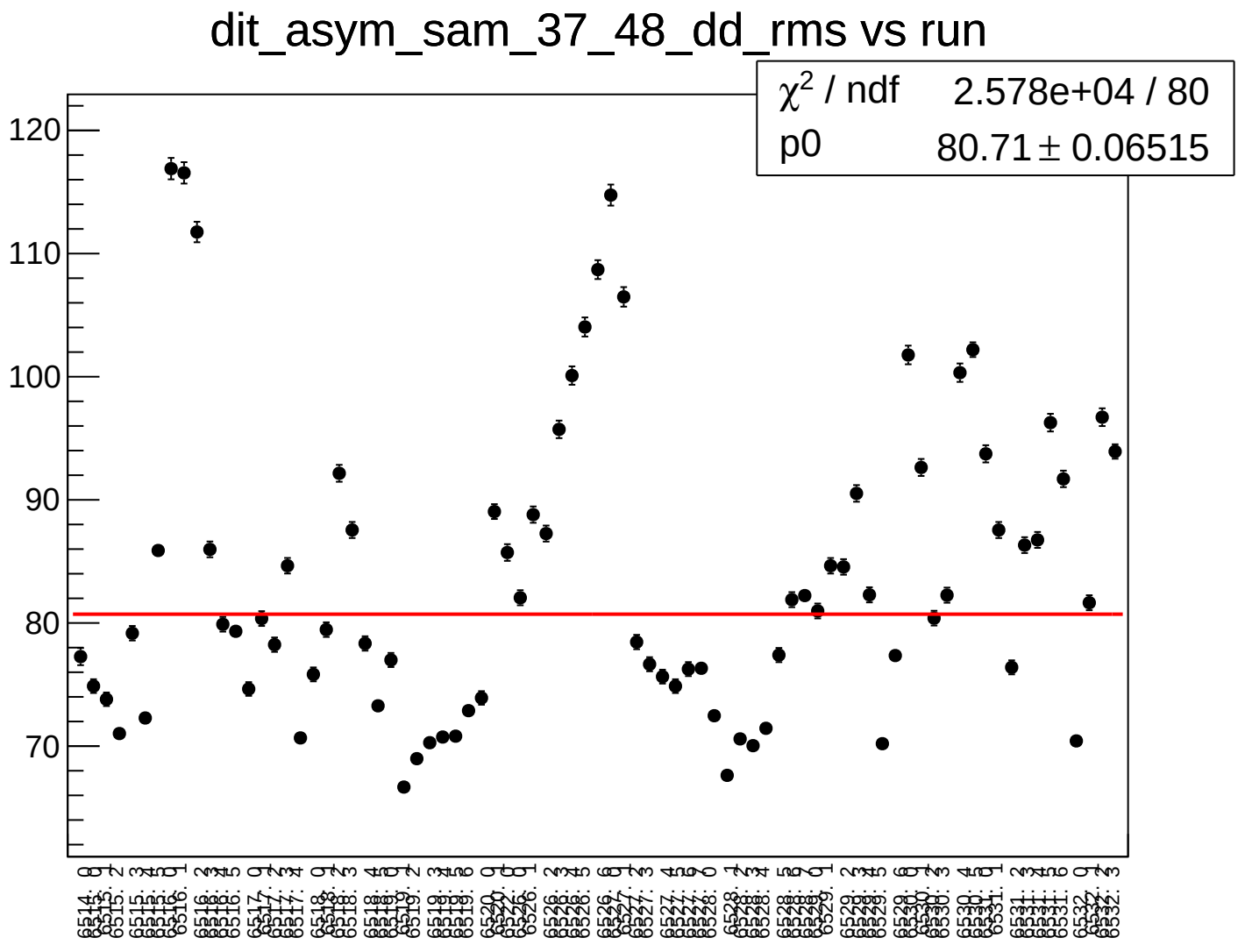

asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 65.47 / 80
p0 473.6 ± 472
15000
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 371.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

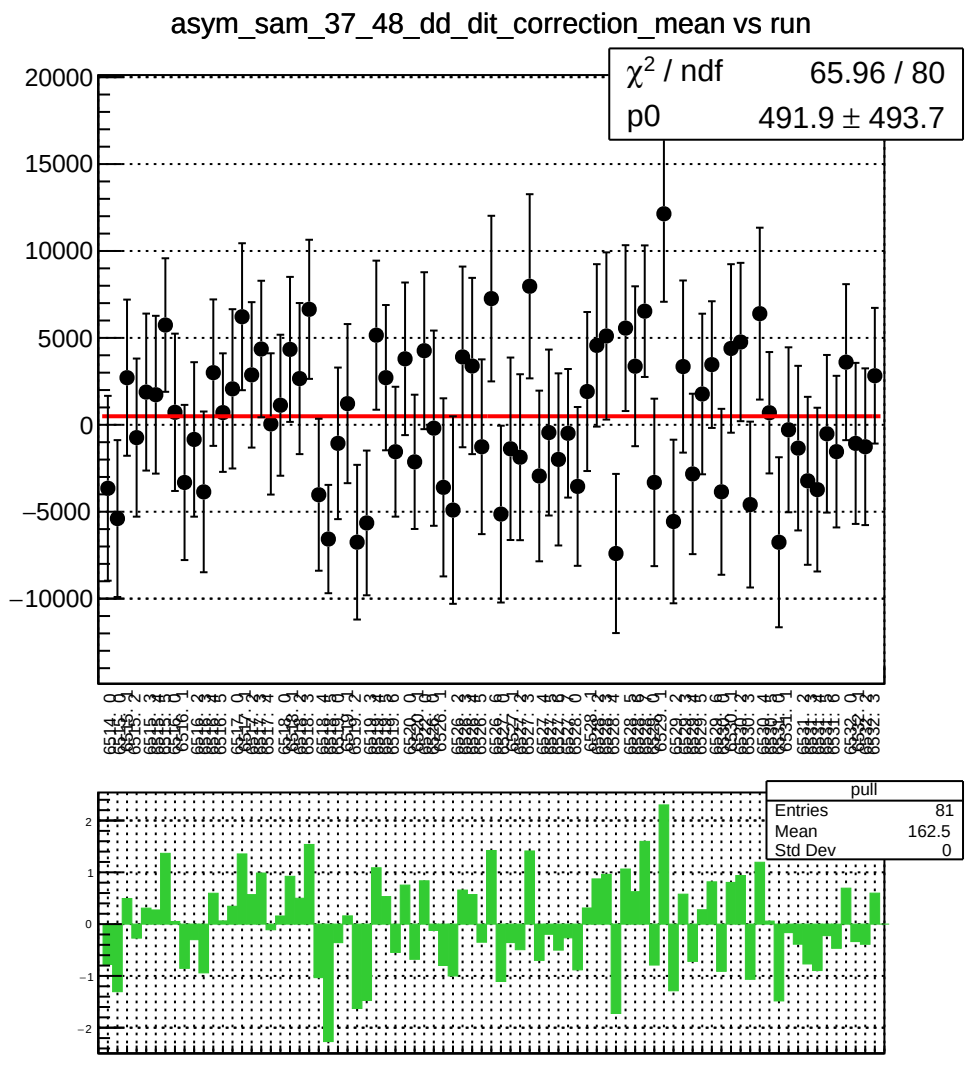

pull1D
Entries 81
Mean −0.005905
Std Dev 0.899
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

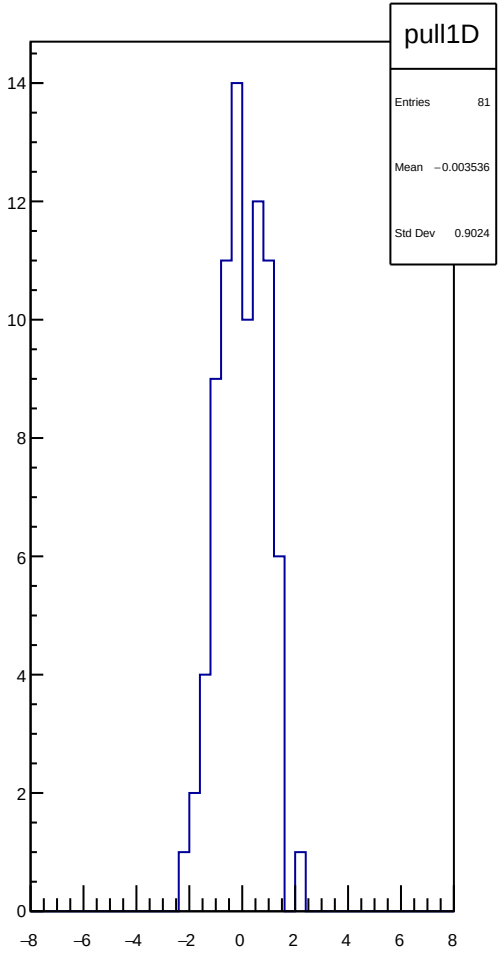

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.217e+04 / 80
p0 415.3 ± 0.3337
520
500
480
460
440
420
400
380
360
340

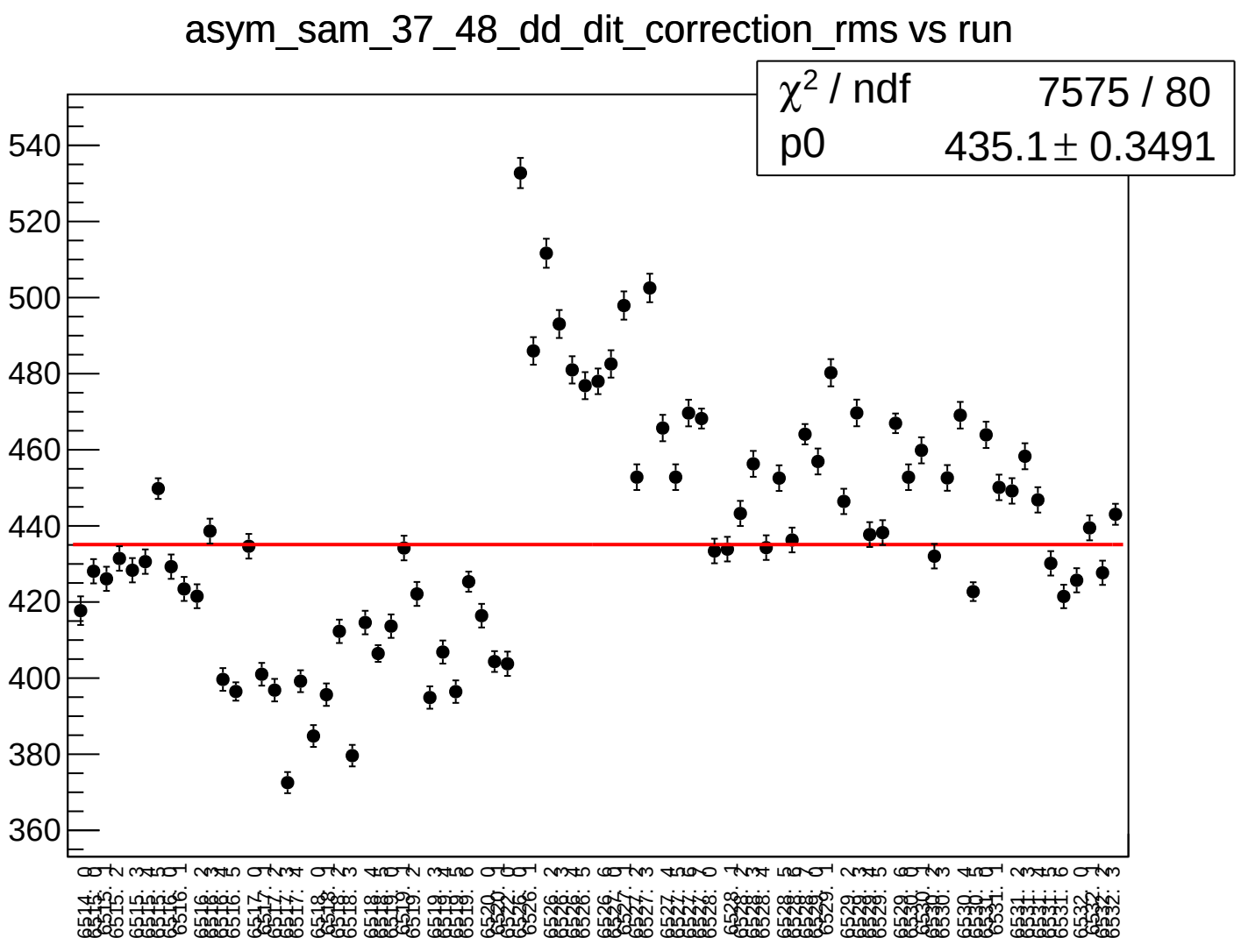

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 89.96 / 80
p0 −63.85 ± 92.13
4000
2000
0
−2000
−4000
−6000
pull
Entries 81
Mean 3375
Std Dev 0
3
2
1
0
−1
−2
−3
−4

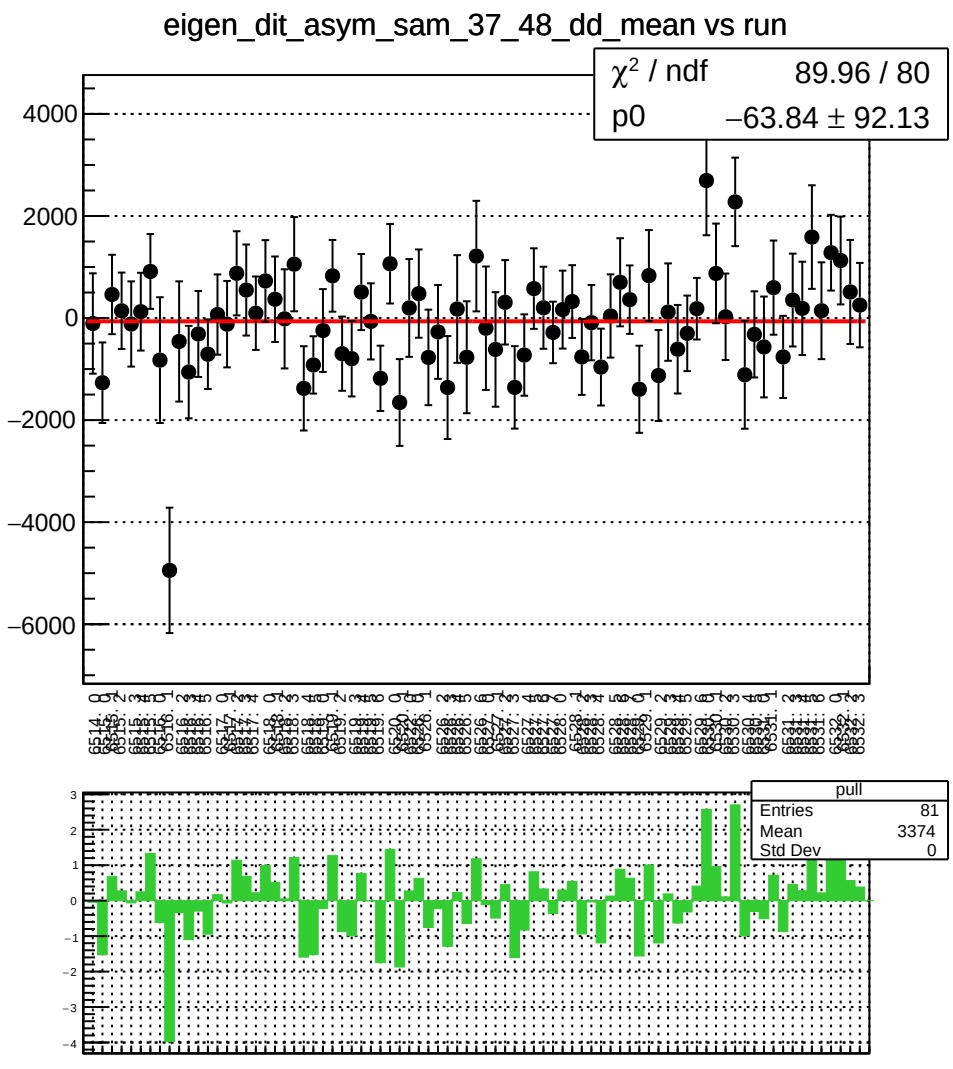

pull1D
Entries 81
Mean 0.001779
Std Dev 1.054
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

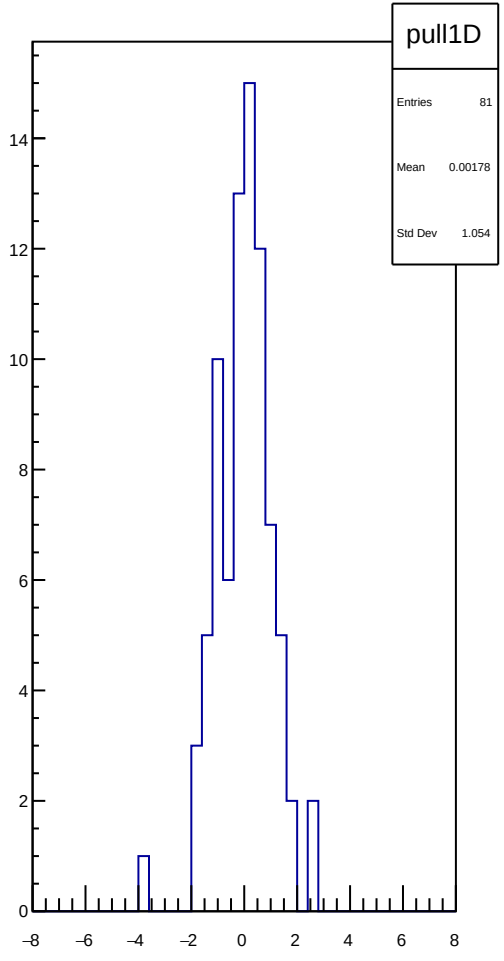

dit_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 2.578e+04 / 80
p0 80.71 ± 0.06515
120
110
100
90
80
70

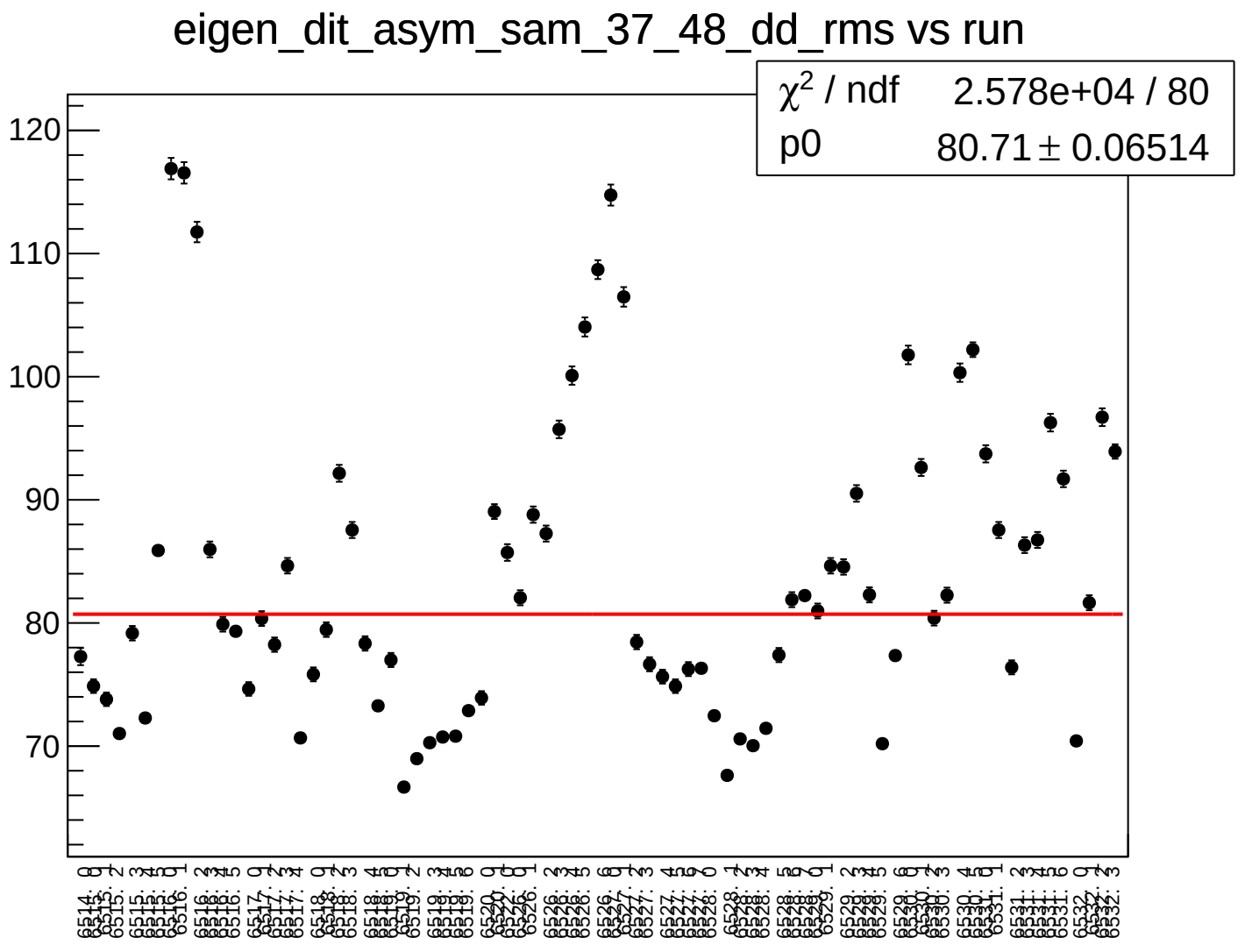

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 65.96 / 80
p0 491.9 ± 493.7
pull
Entries 81
Mean 162.5
Std Dev 0

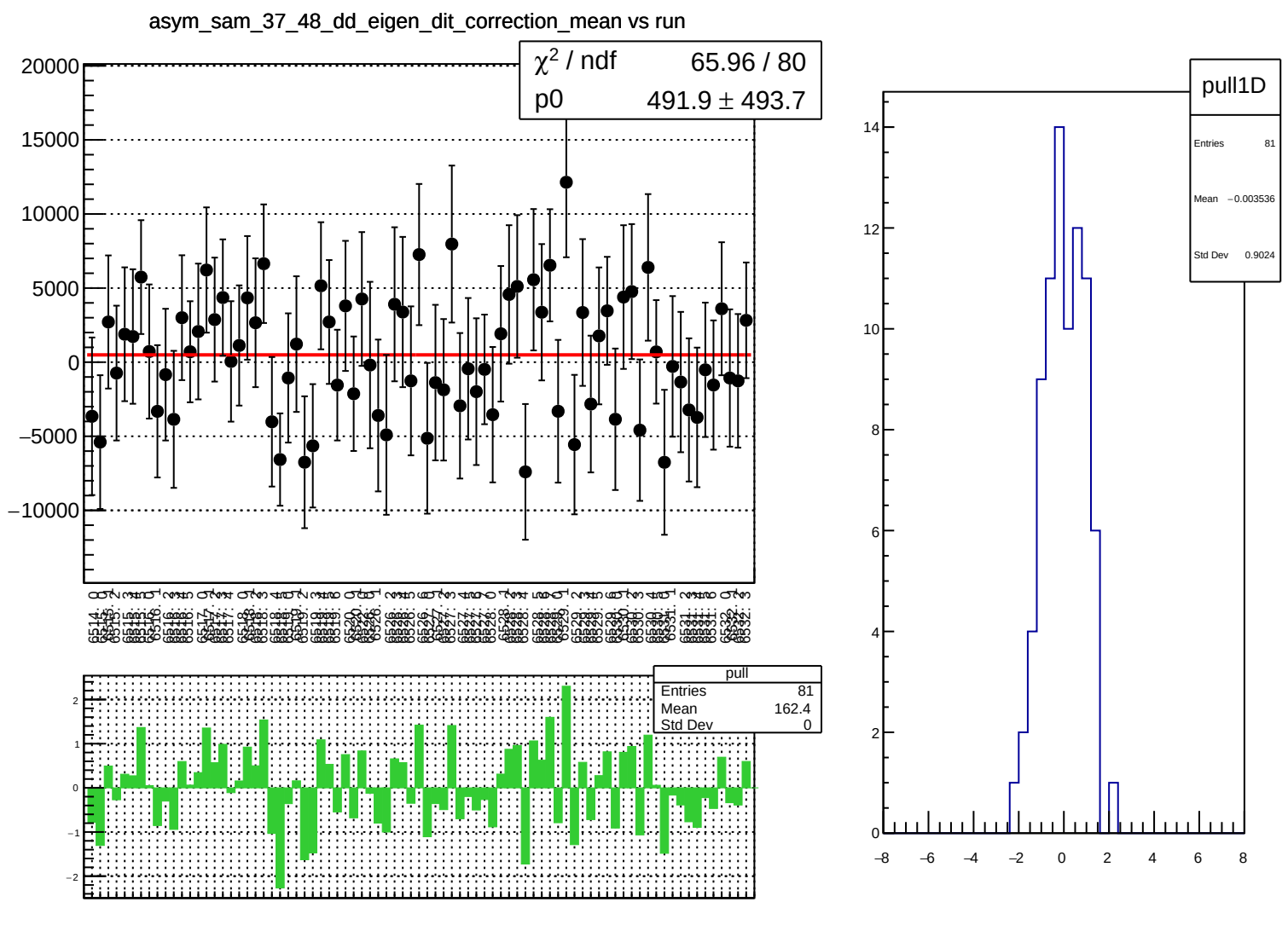

pull1D
Entries 81
Mean −0.003536
Std Dev 0.9024

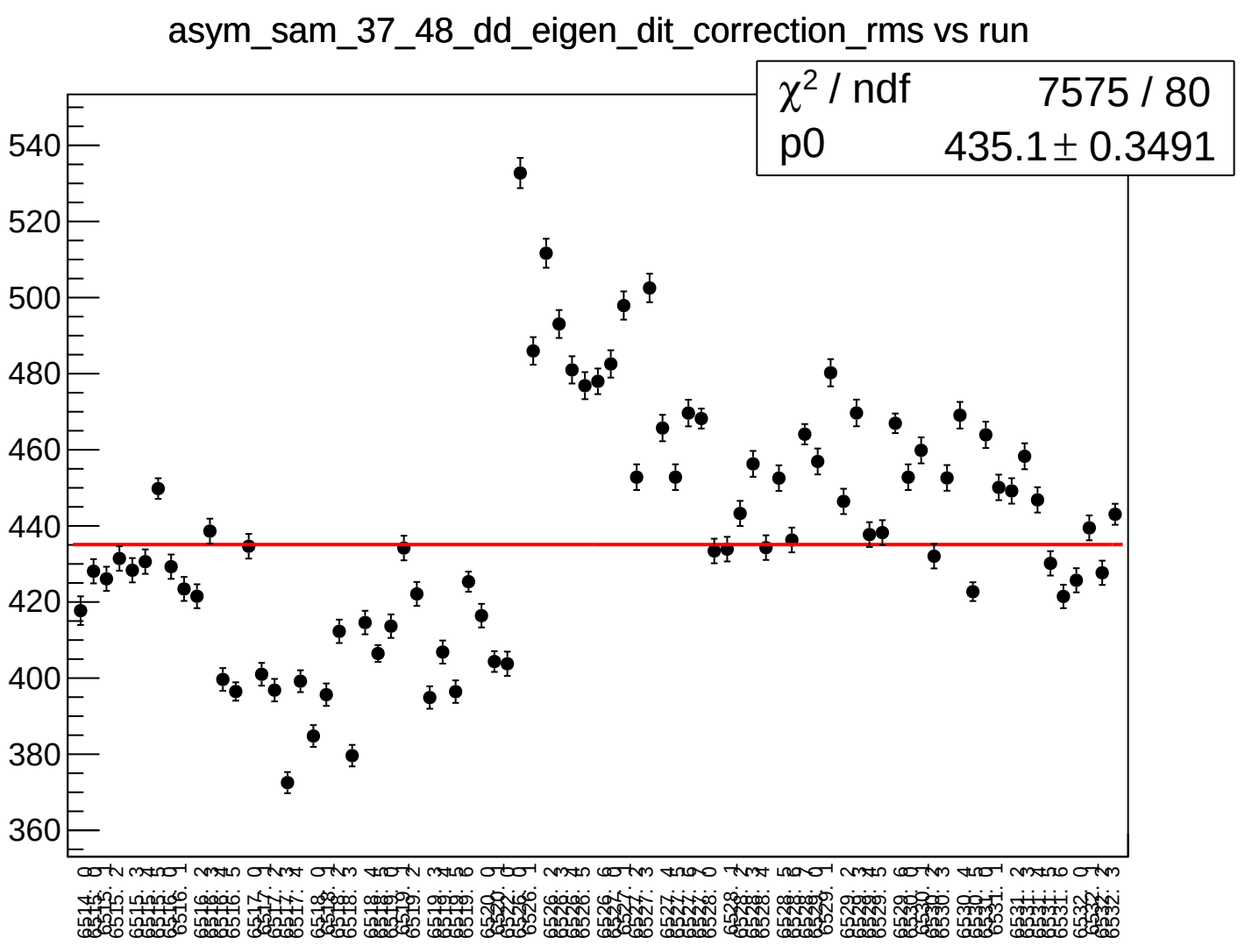

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 7575 / 80
p0 435.1 ± 0.3491
540
520
500
480
460
440
420
400
380
360

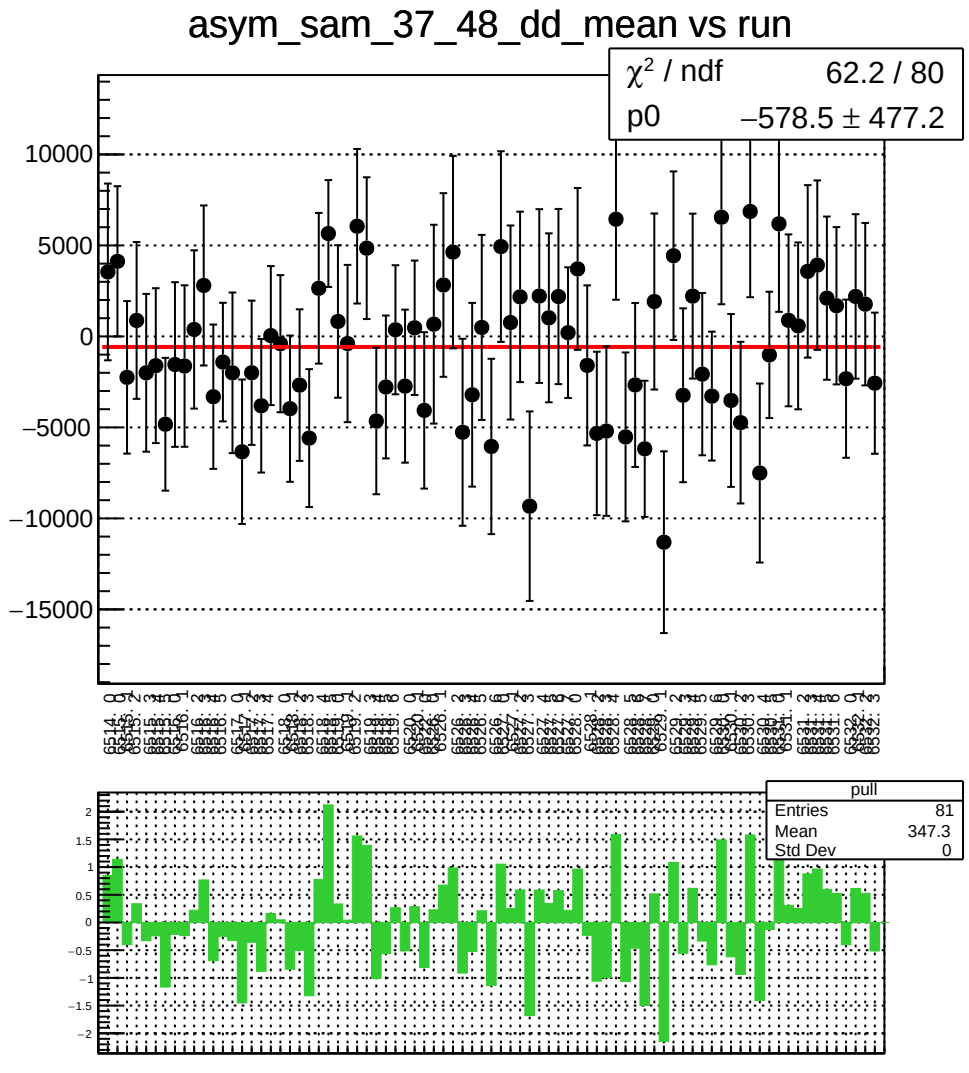

eigen_dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 89.96 / 80
p0 −63.84 ± 92.13
4000
2000
0
−2000
−4000
−6000
pull
Entries 81
Mean 3374
Std Dev 0
3
2
1
0
−1
−2
−3
−4

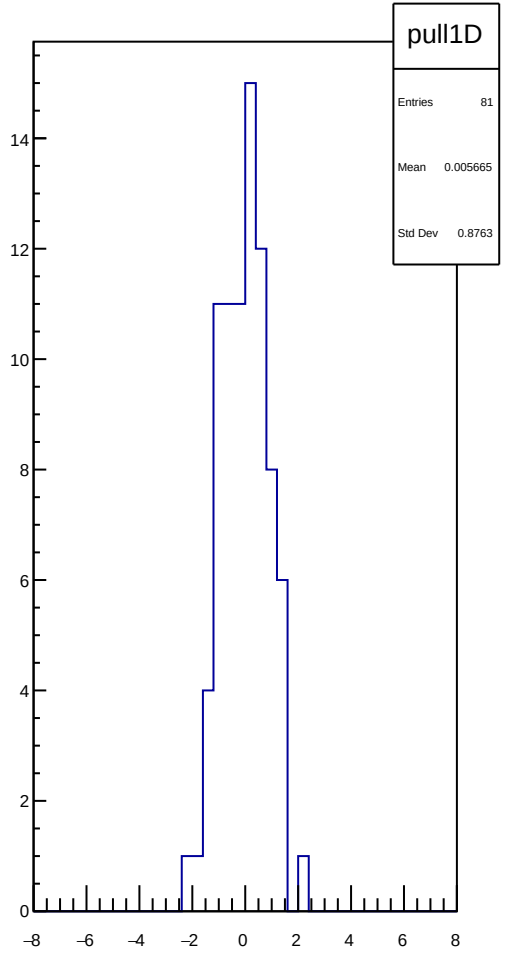

pull1D
Entries 81
Mean 0.00178
Std Dev 1.054
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

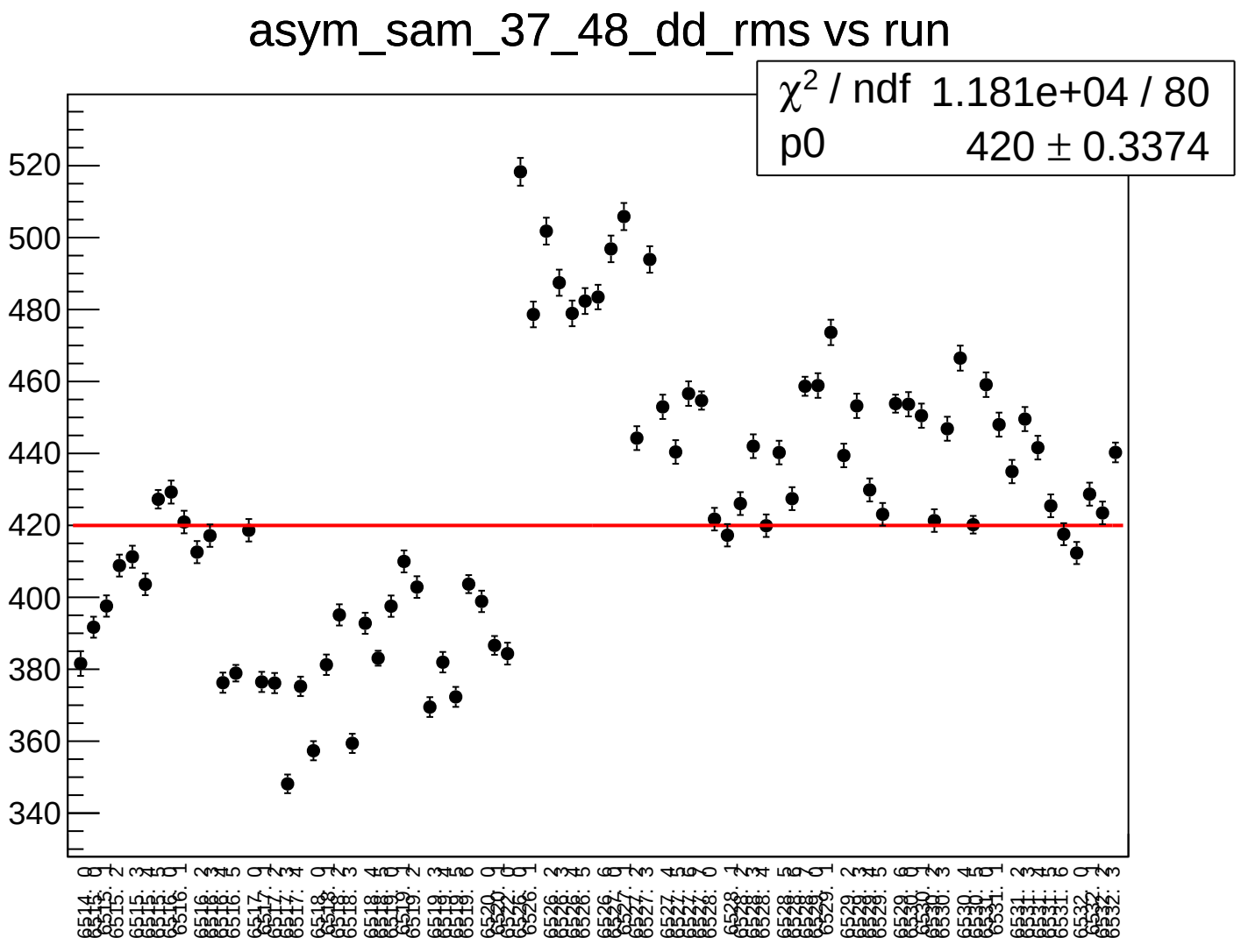

eigen_dit_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 2.578e+04 / 80
p0 80.71 ± 0.06514
120
110
100
90
80
70

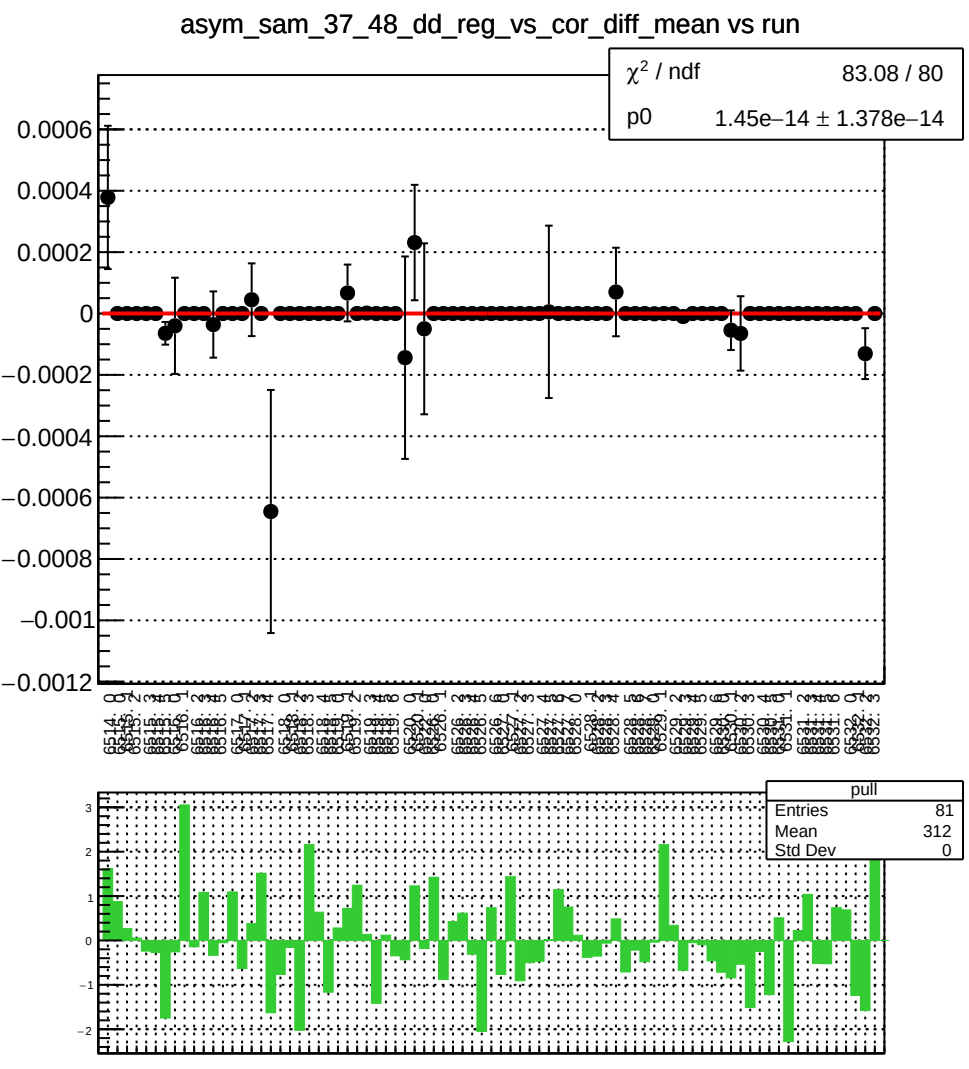

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 65.96 / 80
p0 491.9 ± 493.7
pull
Entries 81
Mean 162.4
Std Dev 0
pull1D
Entries 81
Mean −0.003536
Std Dev 0.9024

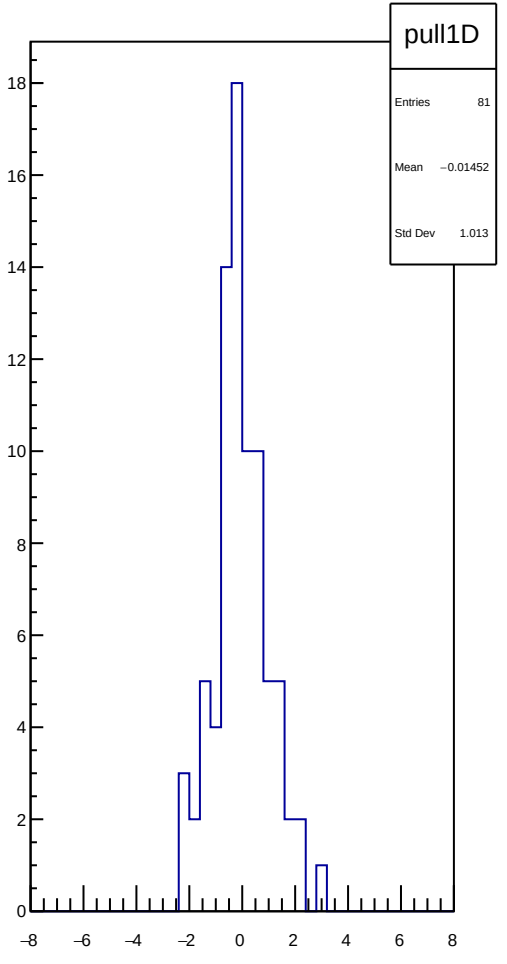

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 7575 / 80
p0 435.1 ± 0.3491
540
520
500
480
460
440
420
400
380
360

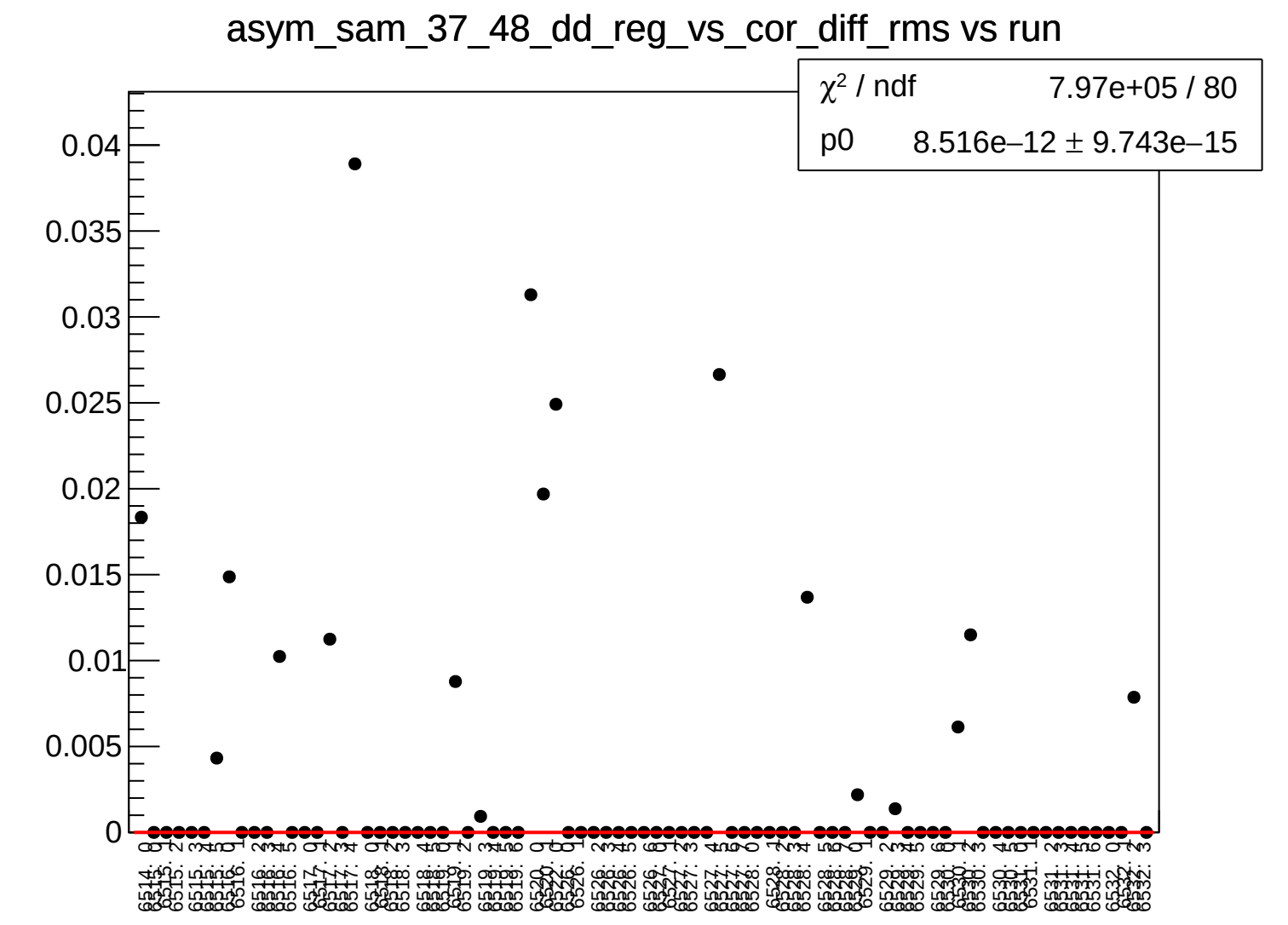

asym_sam_37_48_dd_mean vs run
χ² / ndf 62.2 / 80
p0 −578.5 ± 477.2
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean 347.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

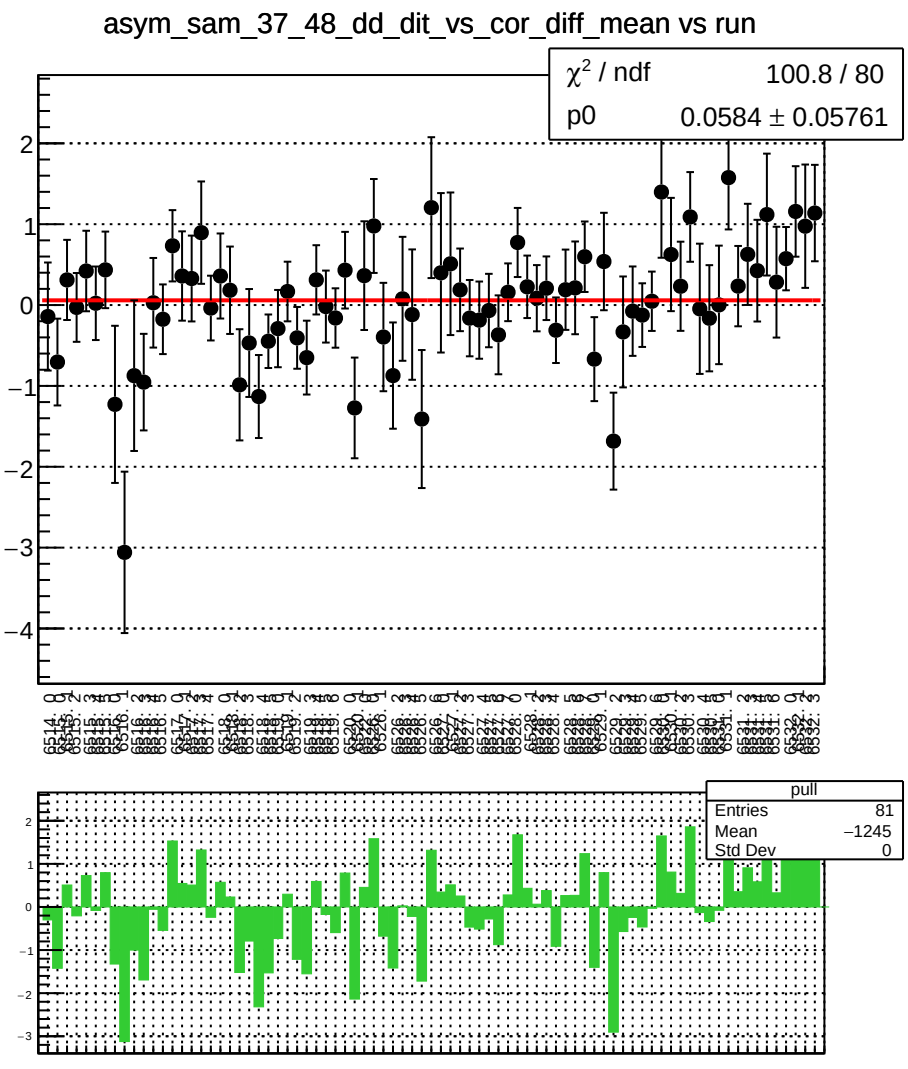

pull1D
Entries 81
Mean 0.005665
Std Dev 0.8763
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

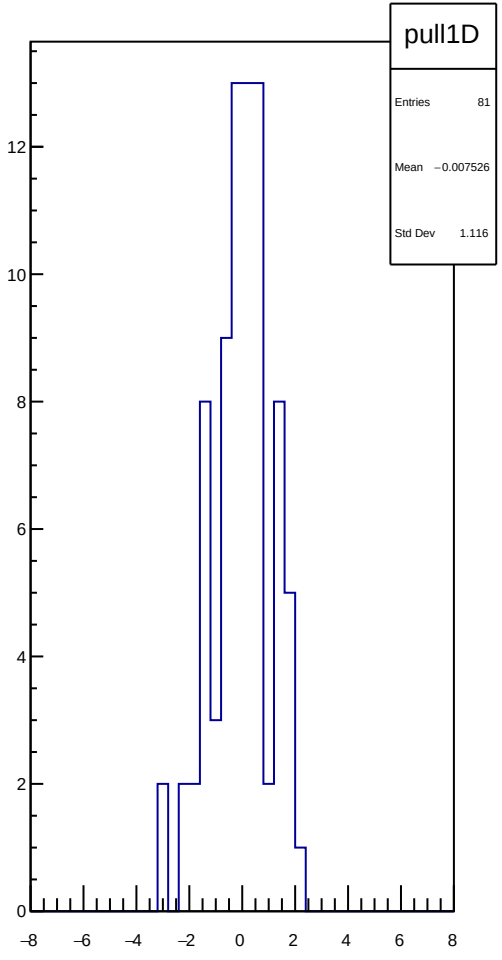

asym_sam_37_48_dd_rms vs run
χ² / ndf 1.181e+04 / 80
p0 420 ± 0.3374
520
500
480
460
440
420
400
380
360
340

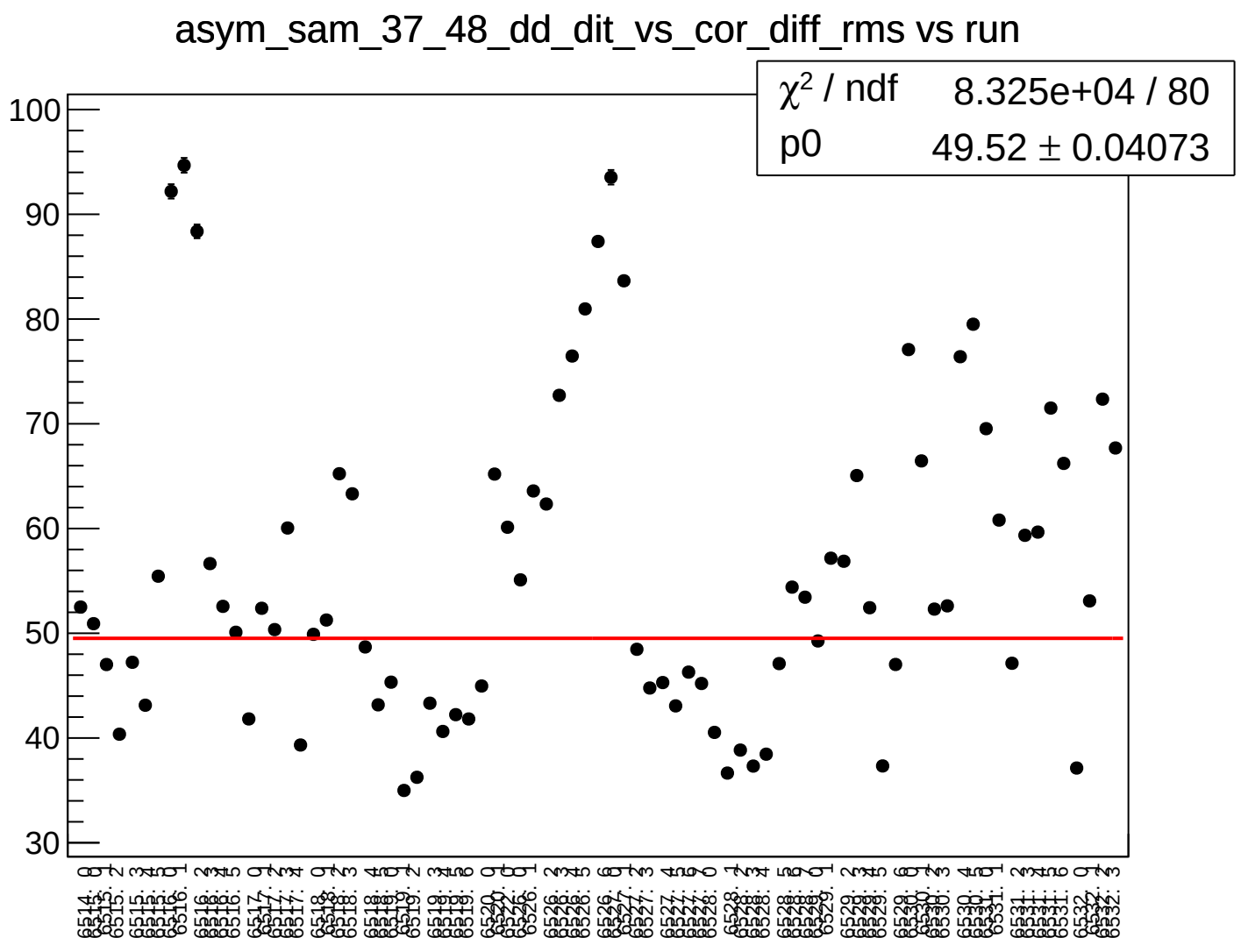

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 83.08 / 80
p0 1.45e−14 ± 1.378e−14
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
pull
Entries 81
Mean 312
Std Dev 0
3
2
1
0
−1
−2

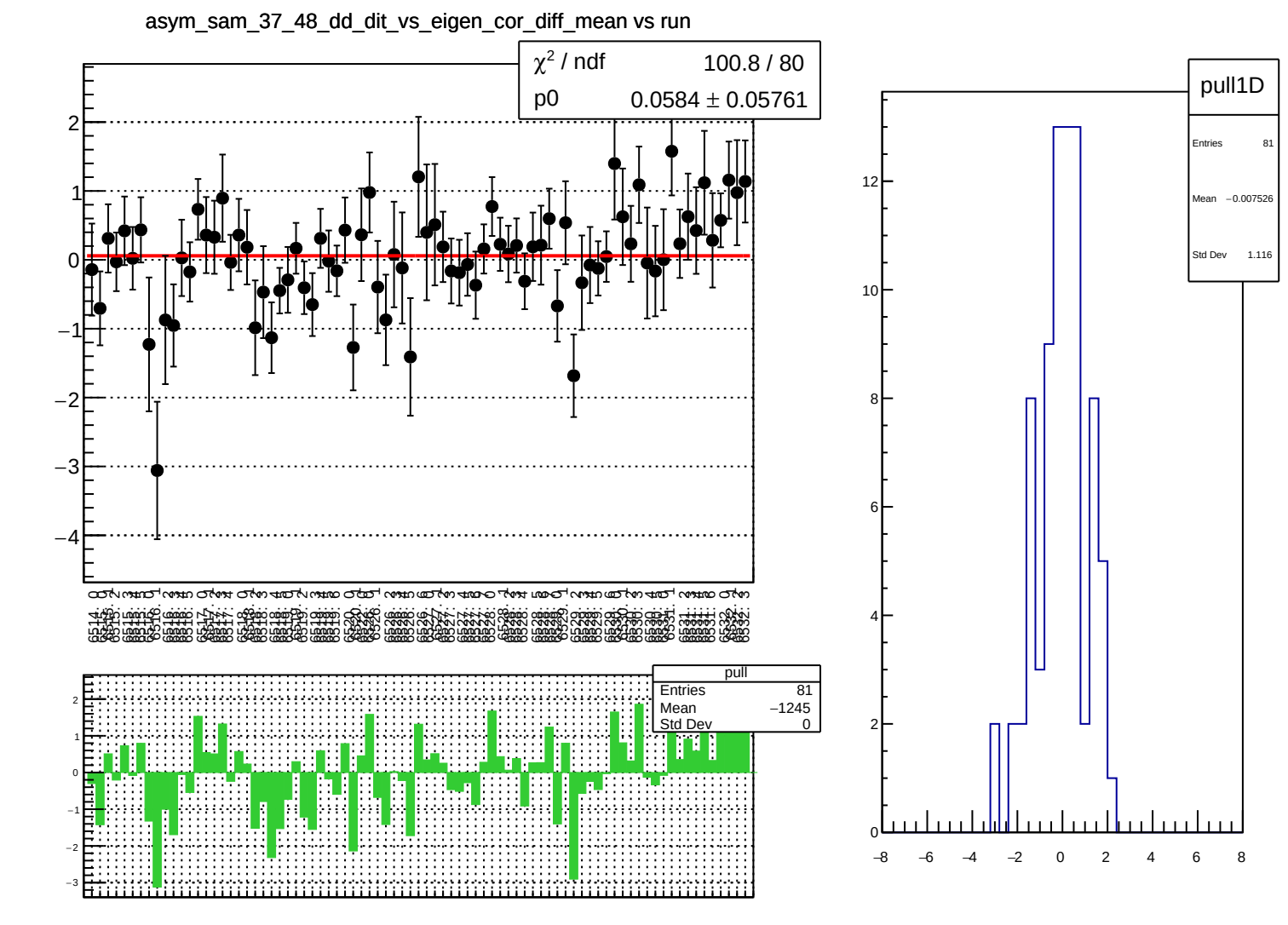

pull1D
Entries 81
Mean −0.01452
Std Dev 1.013
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

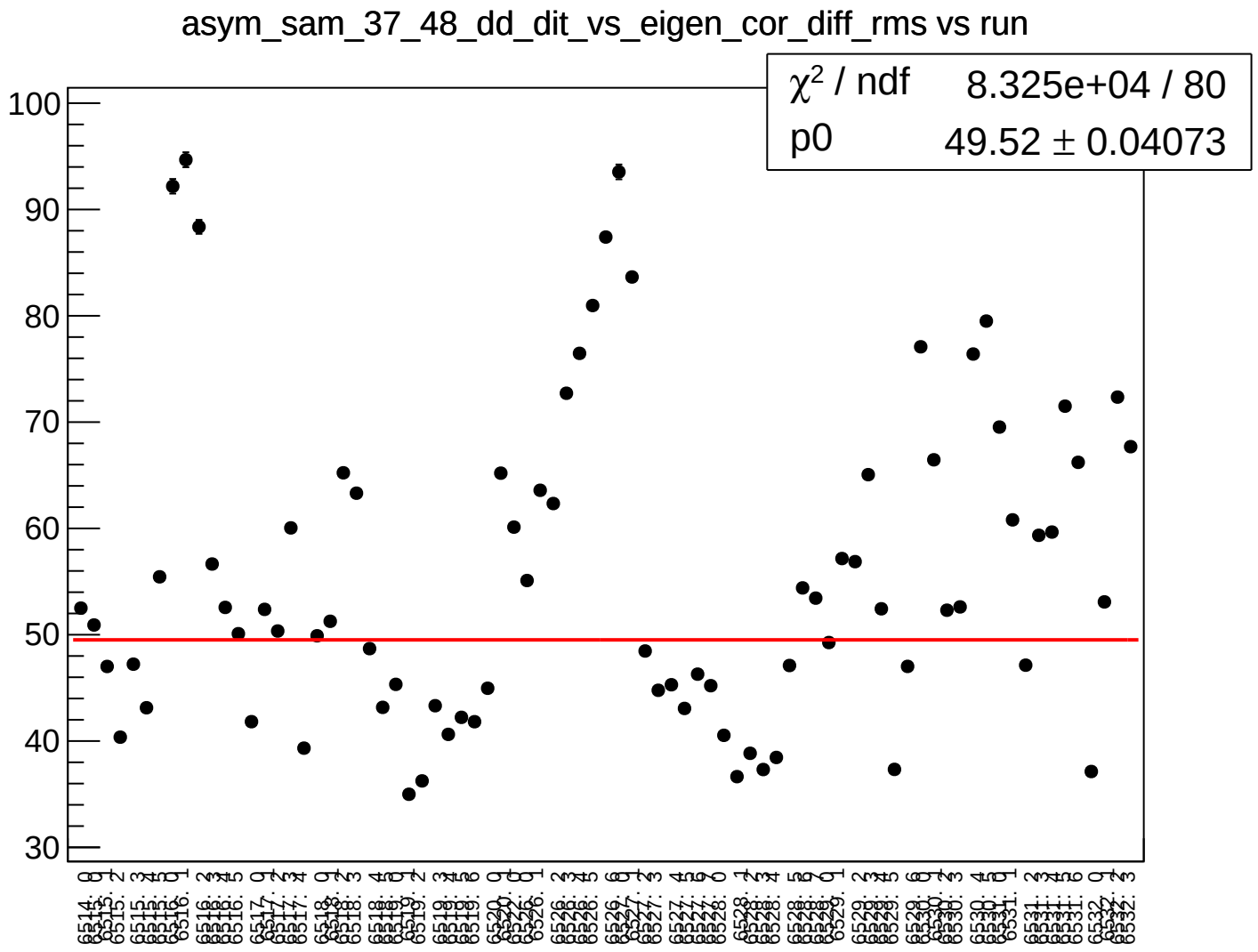

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.97e+05 / 80
p0 8.516e−12 ± 9.743e−15
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

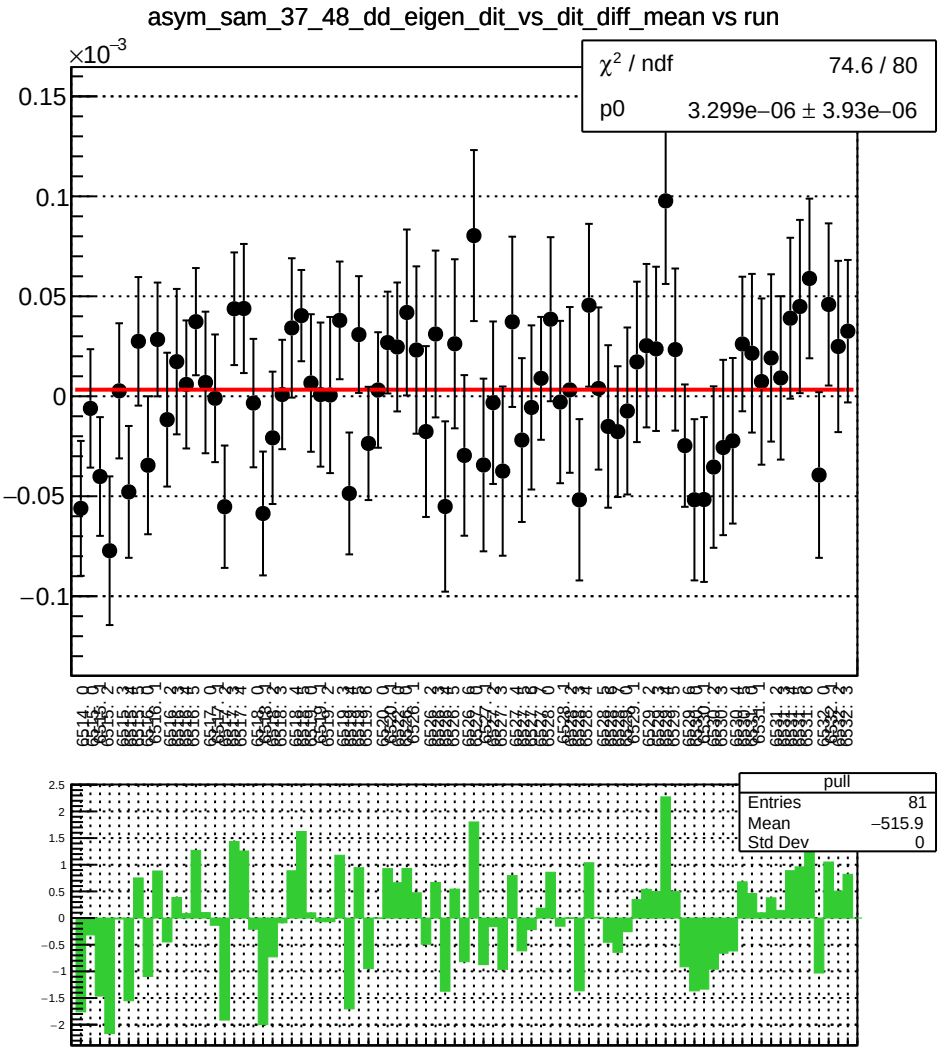

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 100.8 / 80
p0 0.0584 ± 0.05761
pull
Entries 81
Mean −1245
Std Dev 0

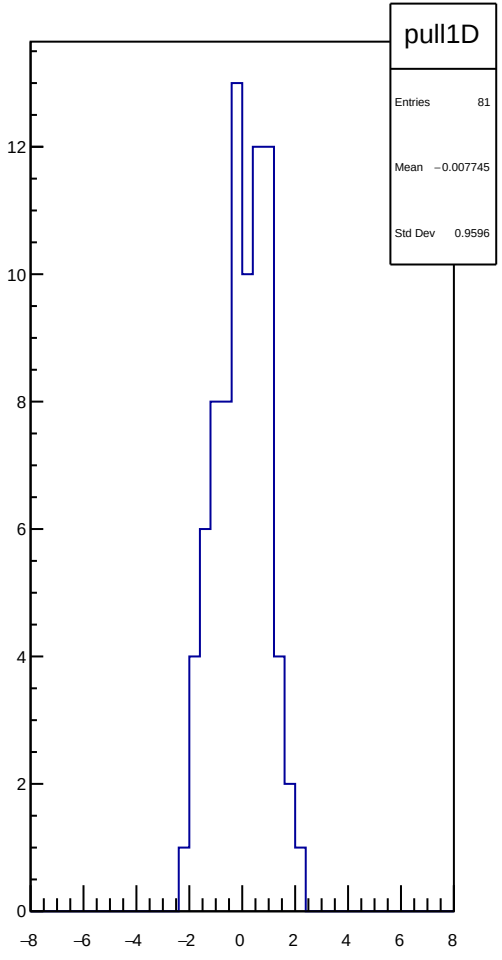

pull1D
Entries 81
Mean −0.007526
Std Dev 1.116

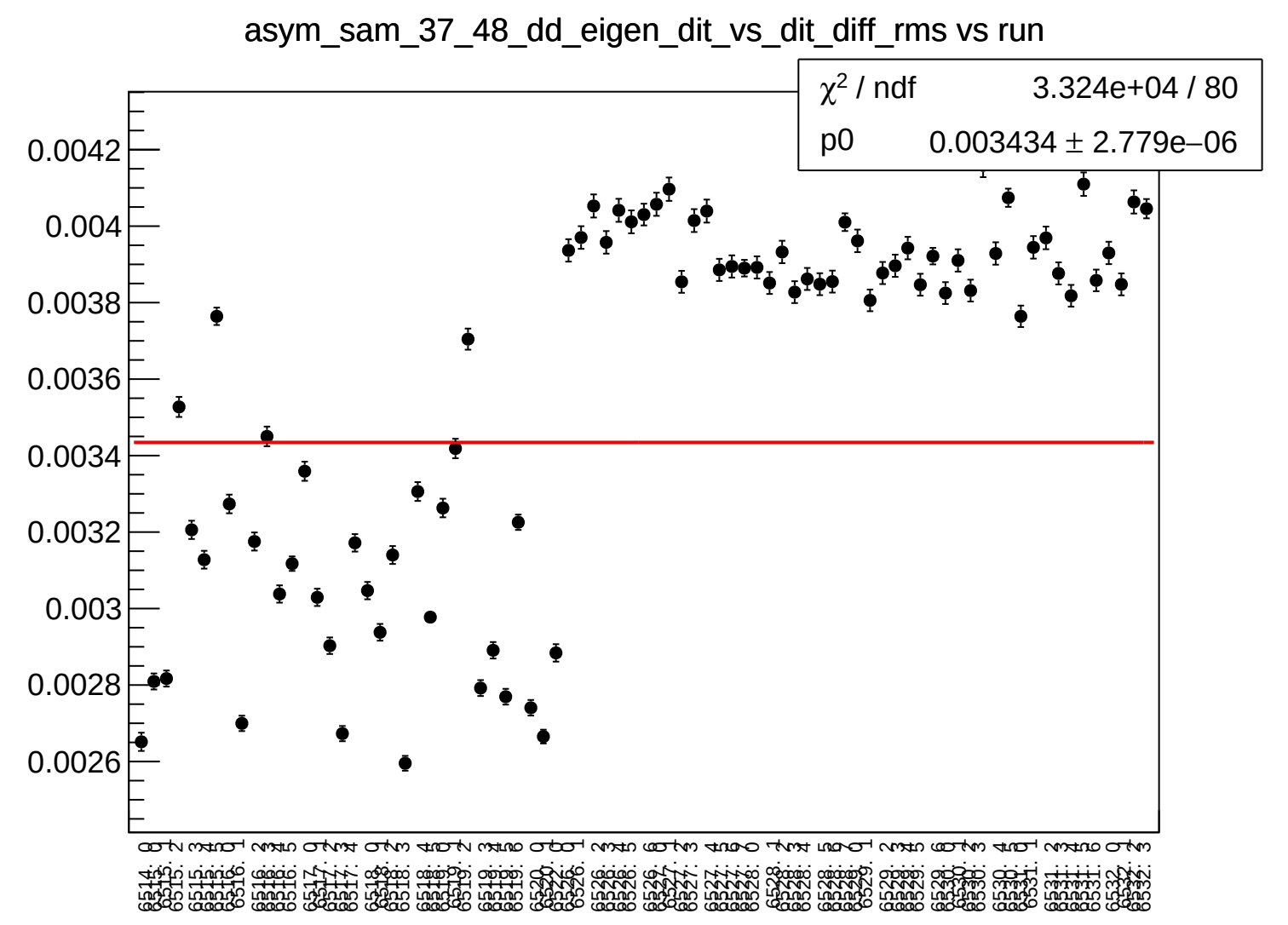

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.325e+04 / 80
p0 49.52 ± 0.04073
100
90
80
70
60
50
40
30

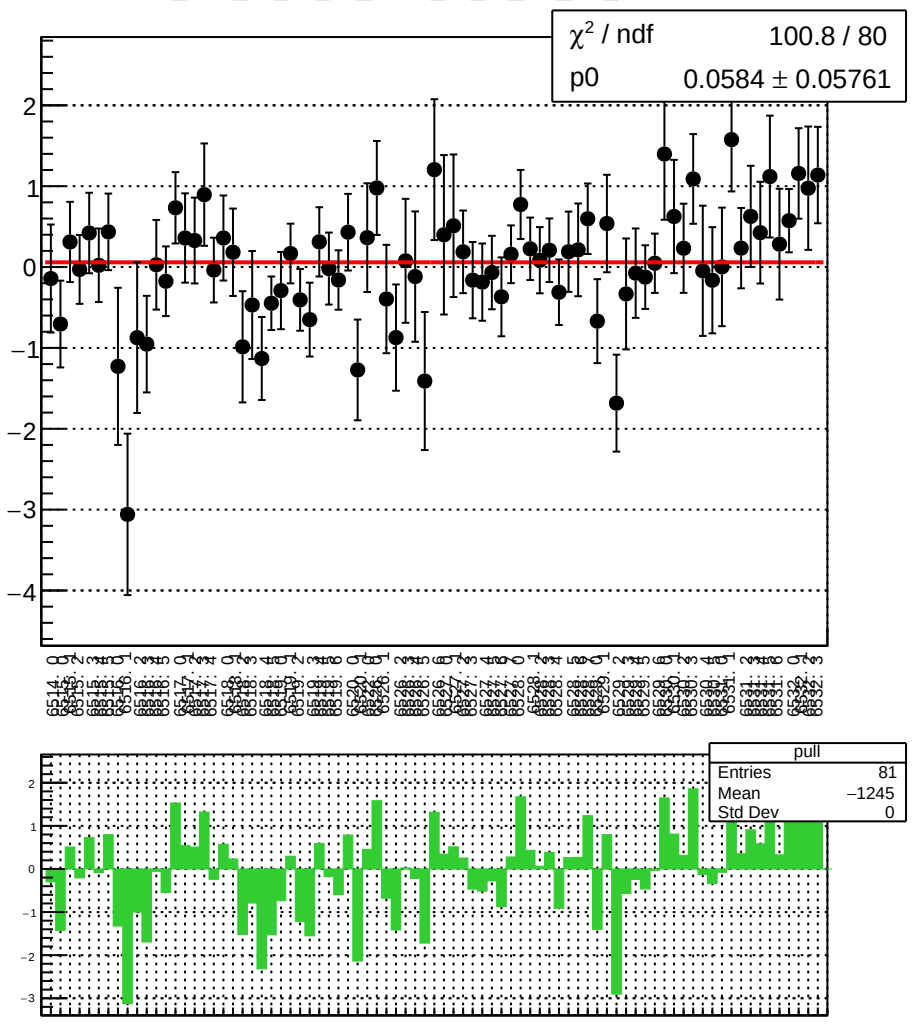

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.8 / 80
p0 0.0584 ± 0.05761
pull
Entries 81
Mean −1245
Std Dev 0
pull1D
Entries 81
Mean −0.007526
Std Dev 1.116

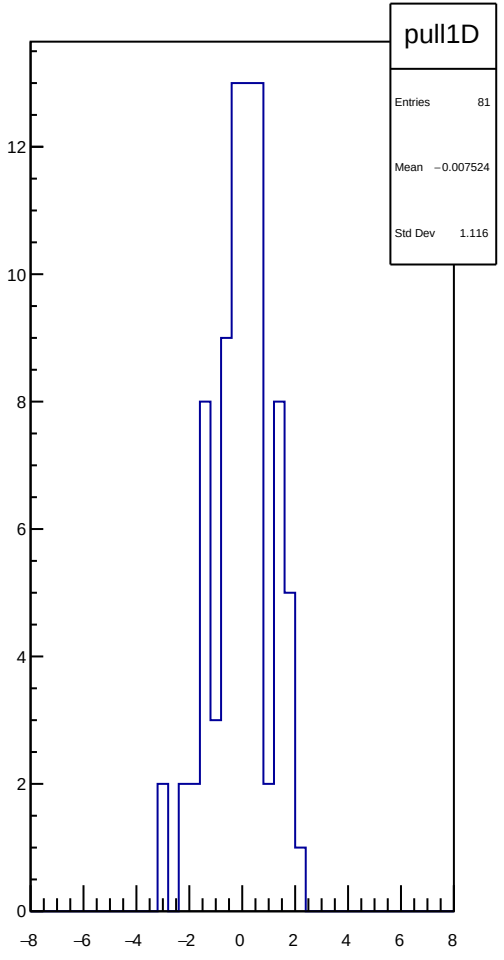

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.325e+04 / 80
p0 49.52 ± 0.04073
100
90
80
70
60
50
40
30

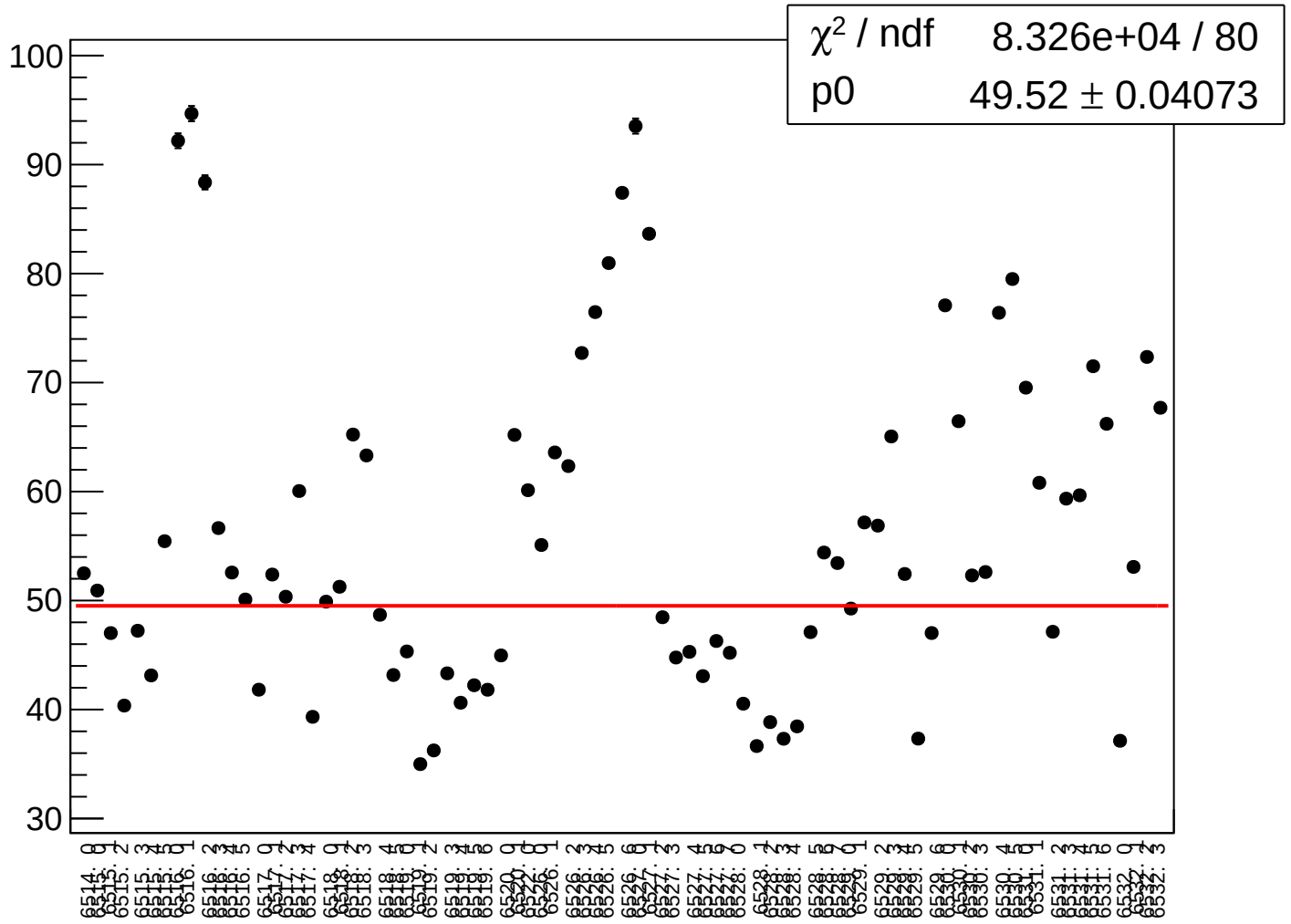

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 74.6 / 80
p0 3.299e−06 ± 3.93e−06
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 81
Mean −515.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

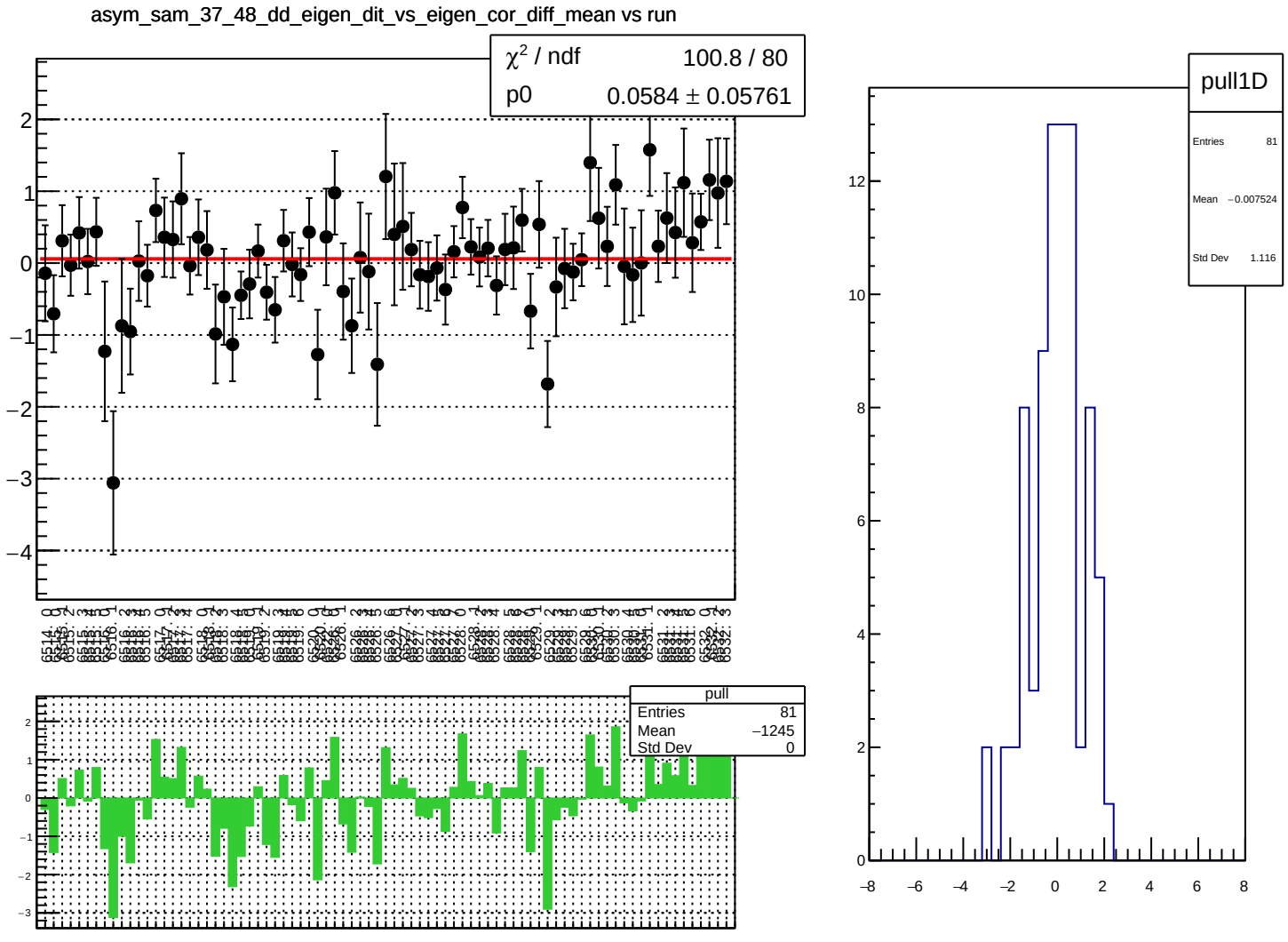

pull1D
Entries 81
Mean −0.007745
Std Dev 0.9596
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

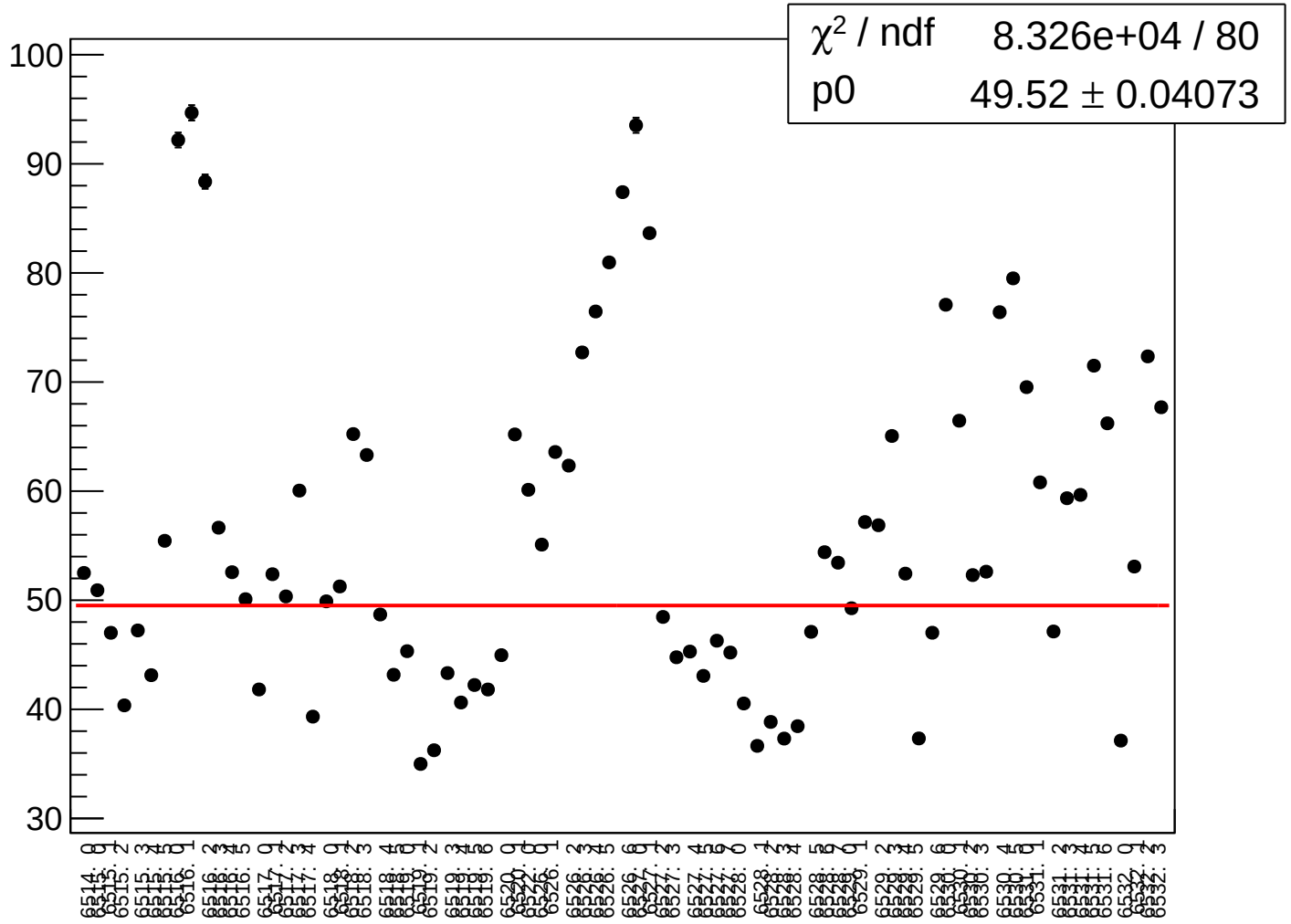

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.324e+04 / 80
p0 0.003434 ± 2.779e−06
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

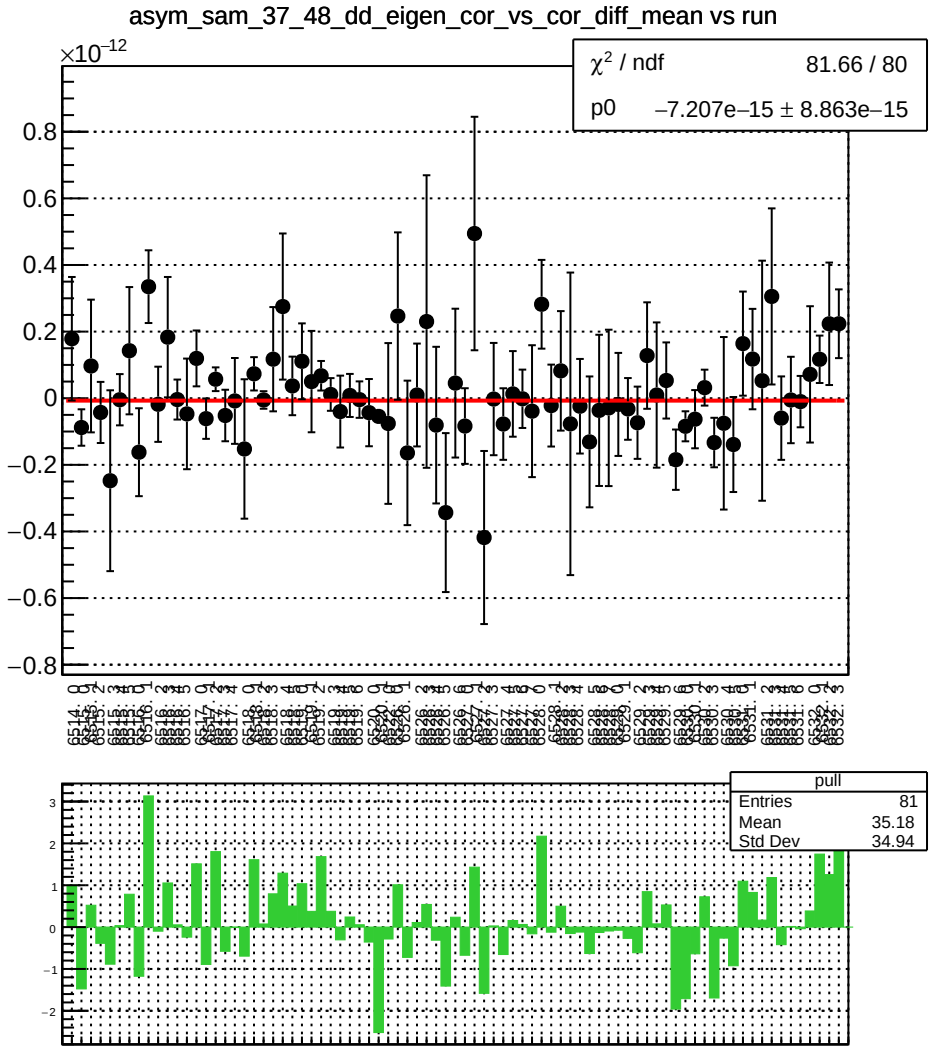

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.8 / 80
p0 0.0584 ± 0.05761
pull
Entries 81
Mean −1245
Std Dev 0

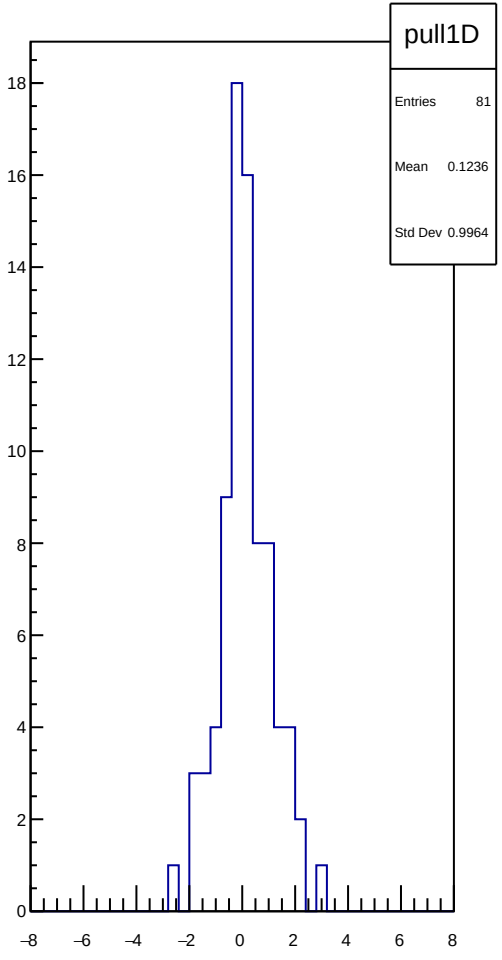

pull1D
Entries 81
Mean −0.007524
Std Dev 1.116

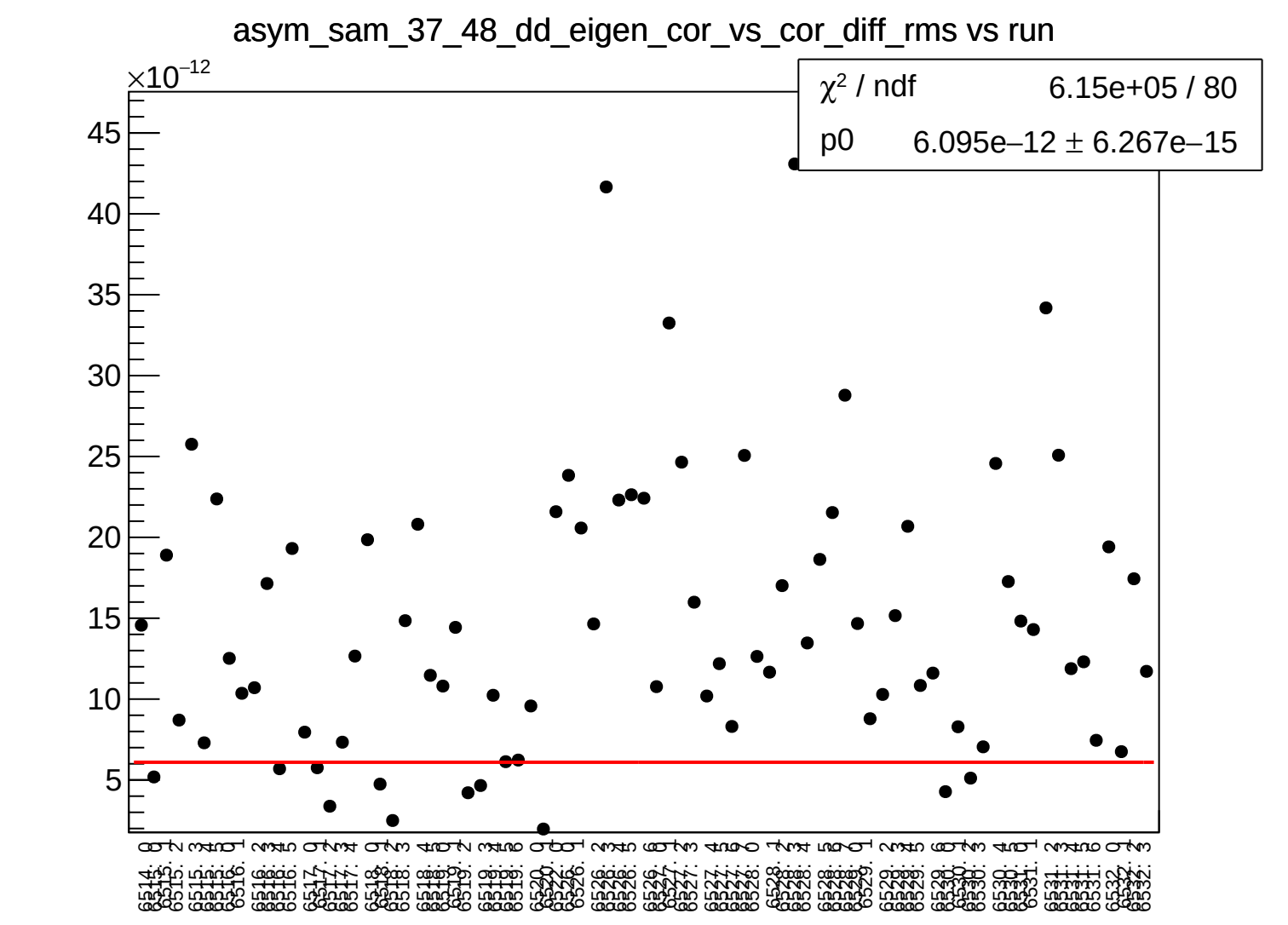

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.326e+04 / 80
p0 49.52 ± 0.04073
100
90
80
70
60
50
40
30

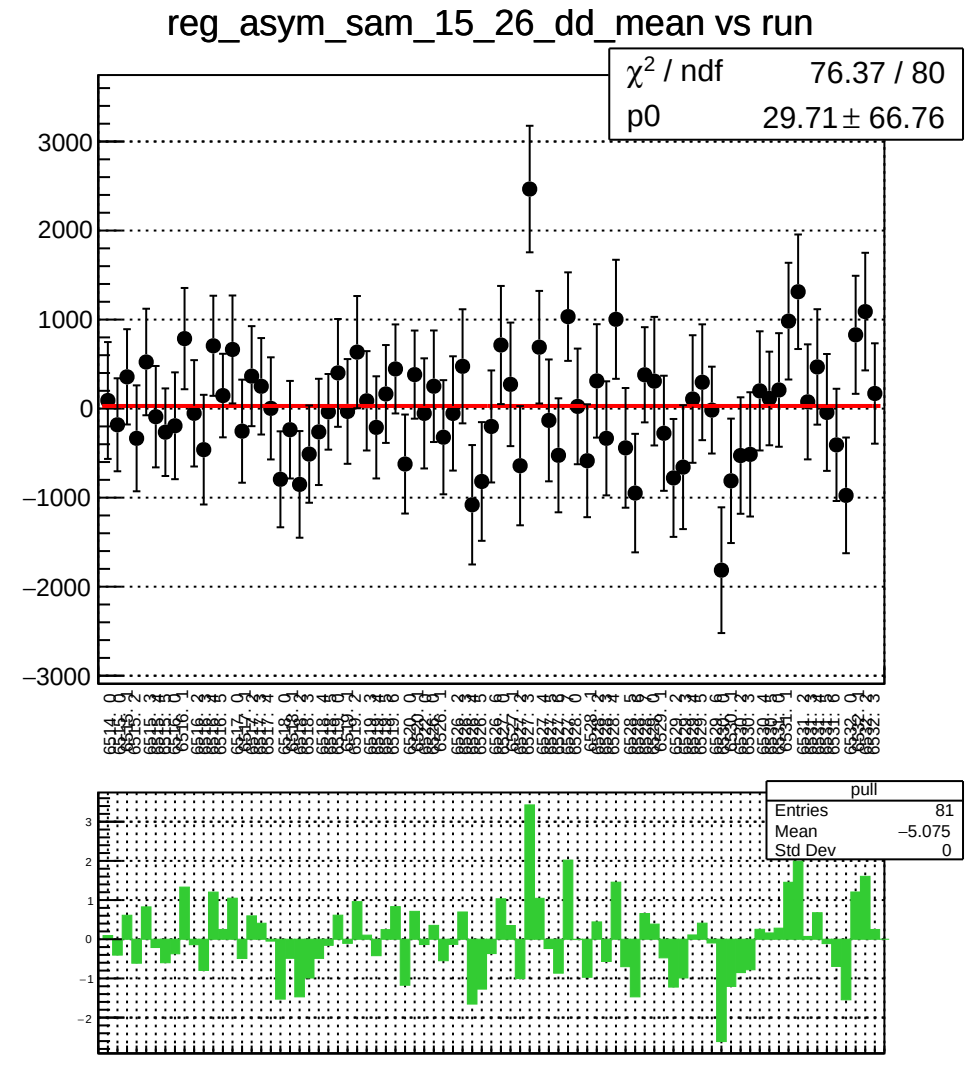

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.8 / 80
p0 0.0584 ± 0.05761
pull
Entries 81
Mean −1245
Std Dev 0
pull1D
Entries 81
Mean −0.007524
Std Dev 1.116

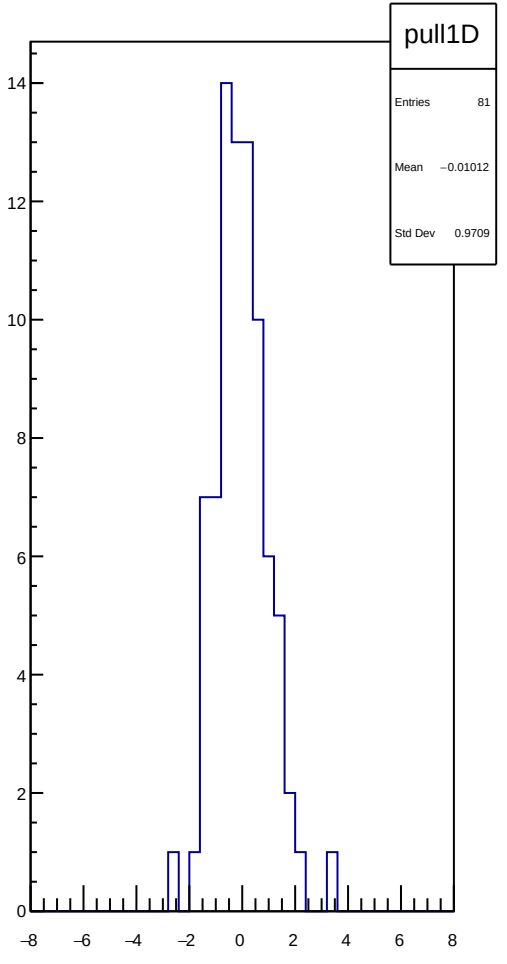

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.326e+04 / 80
p0 49.52 ± 0.04073
100
90
80
70
60
50
40
30

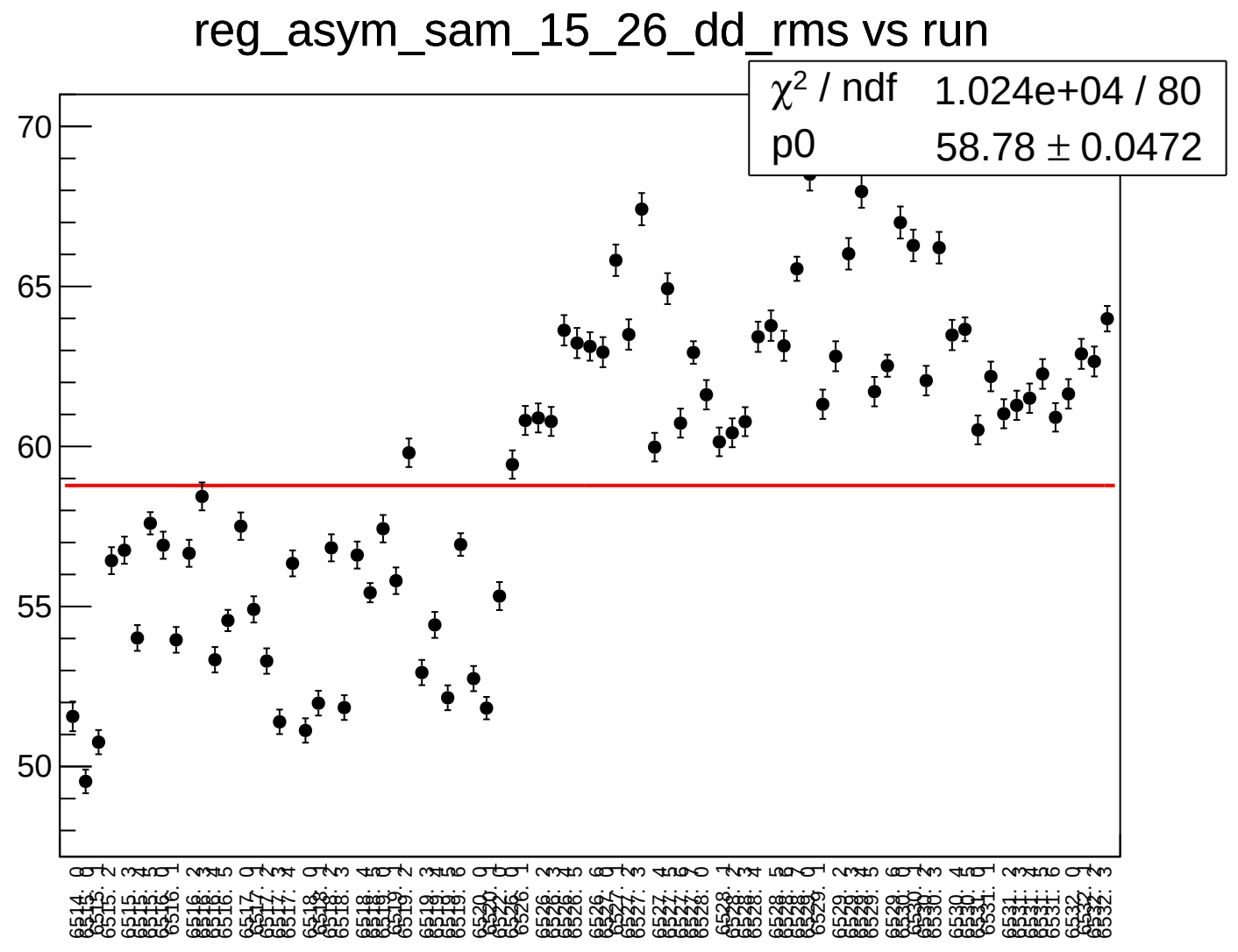

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.66 / 80
p0 −7.207e−15 ± 8.863e−15
pull
Entries 81
Mean 35.18
Std Dev 34.94

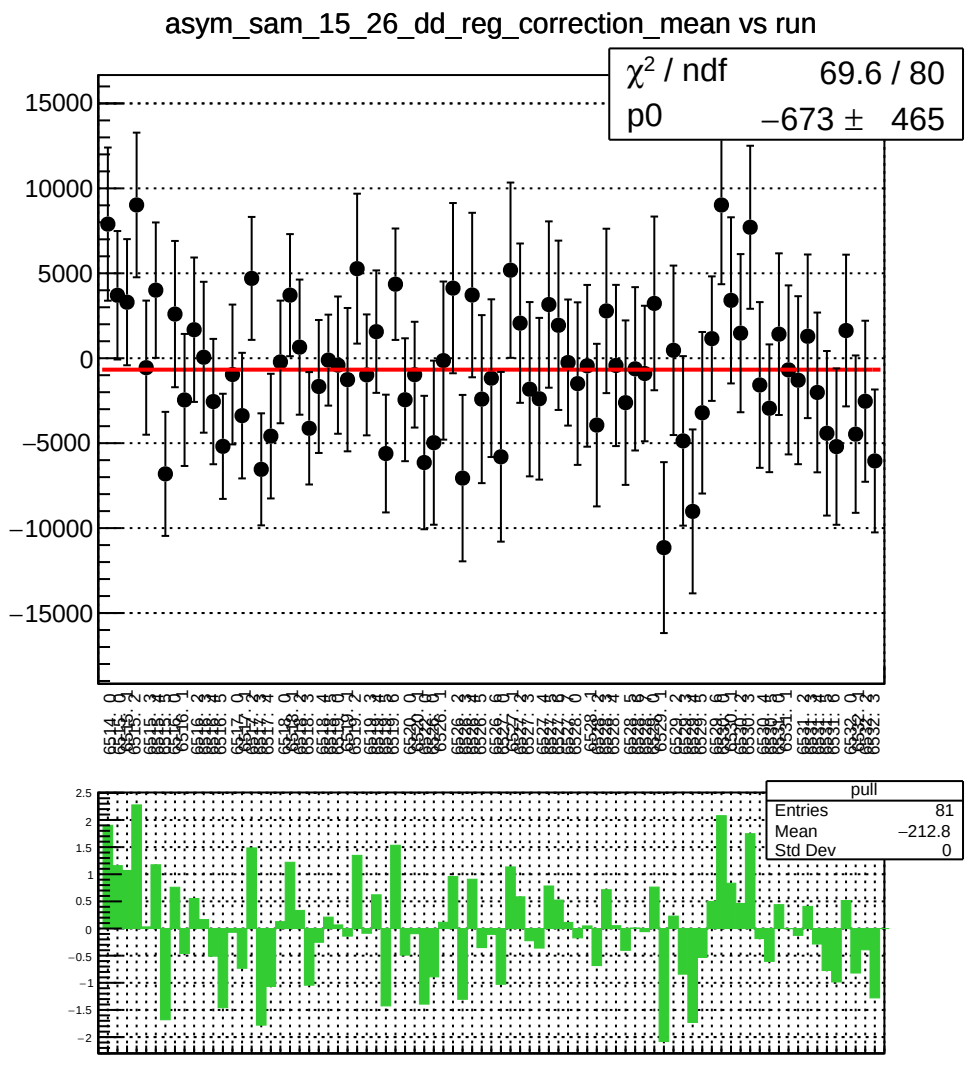

pull1D
Entries 81
Mean 0.1236
Std Dev 0.9964

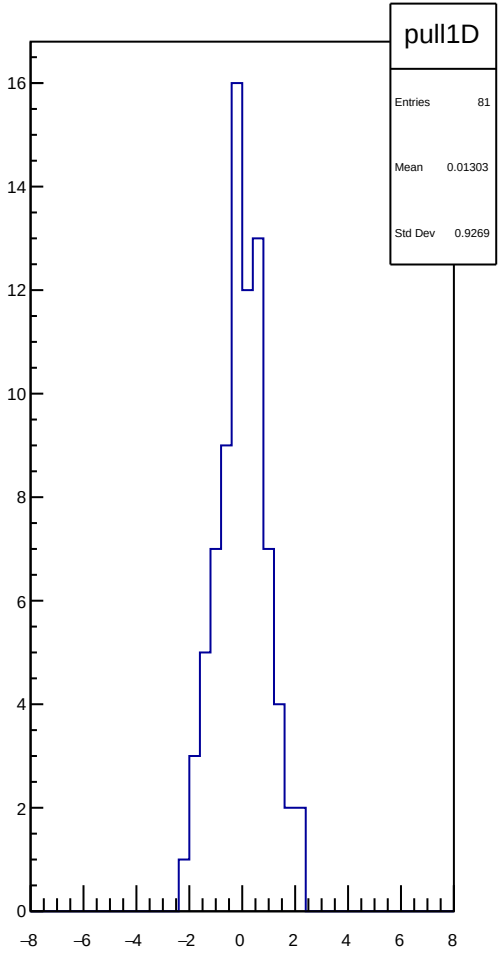

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.15e+05 / 80
p0 6.095e−12 ± 6.267e−15
45
40
35
30
25
20
15
10
5

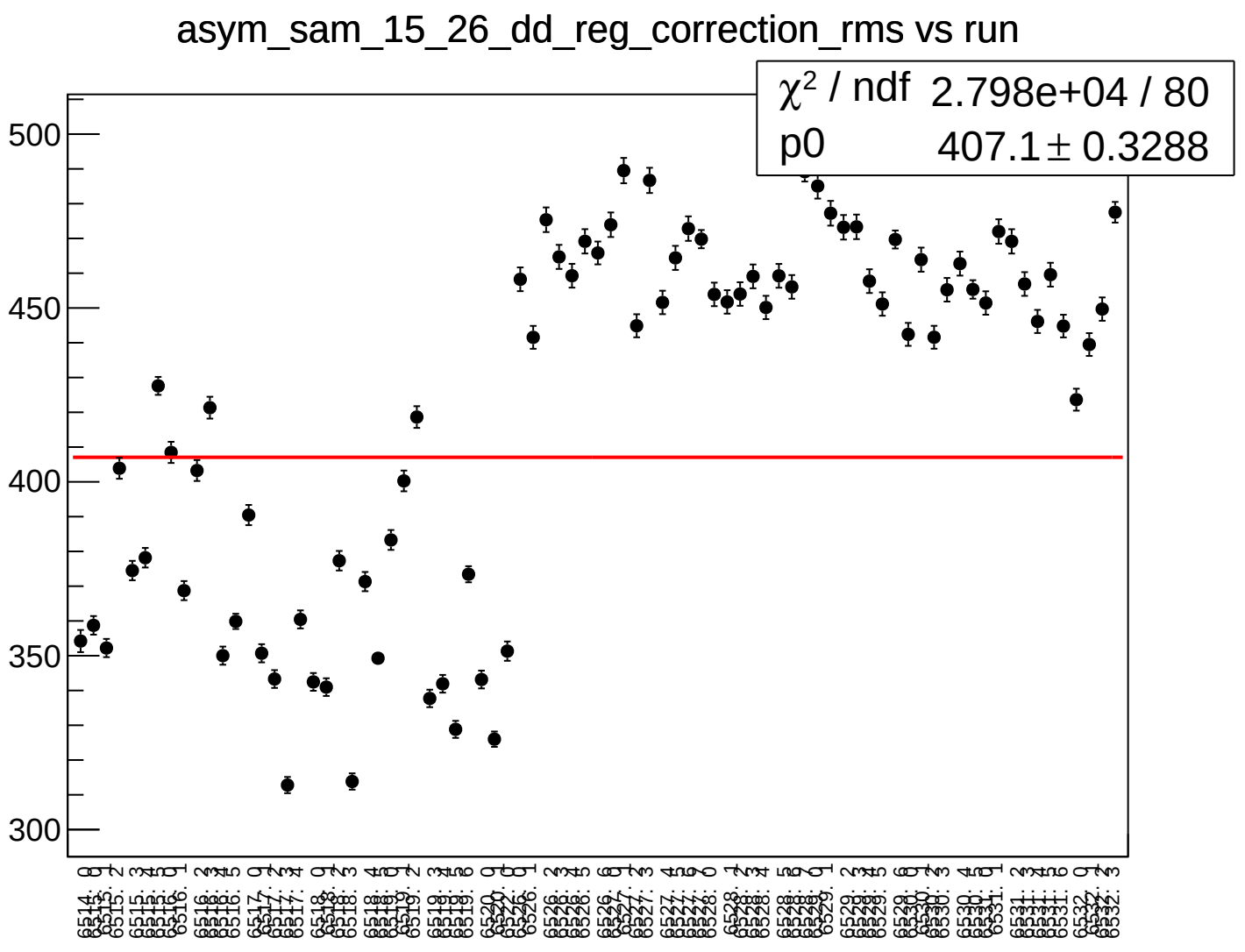

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 76.37 / 80
p0 29.71 ± 66.76
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 81
Mean −5.075
Std Dev 0
3
2
1
0
−1
−2

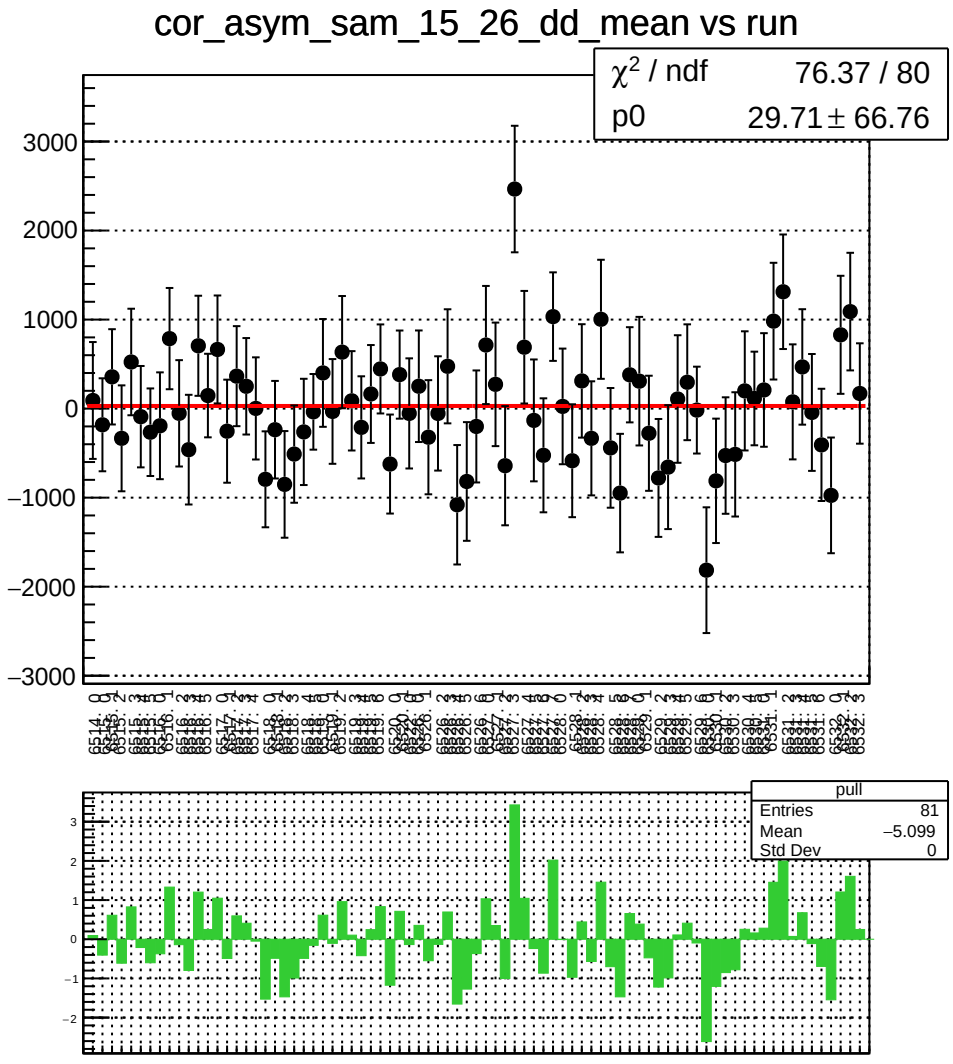

pull1D
Entries 81
Mean −0.01012
Std Dev 0.9709
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

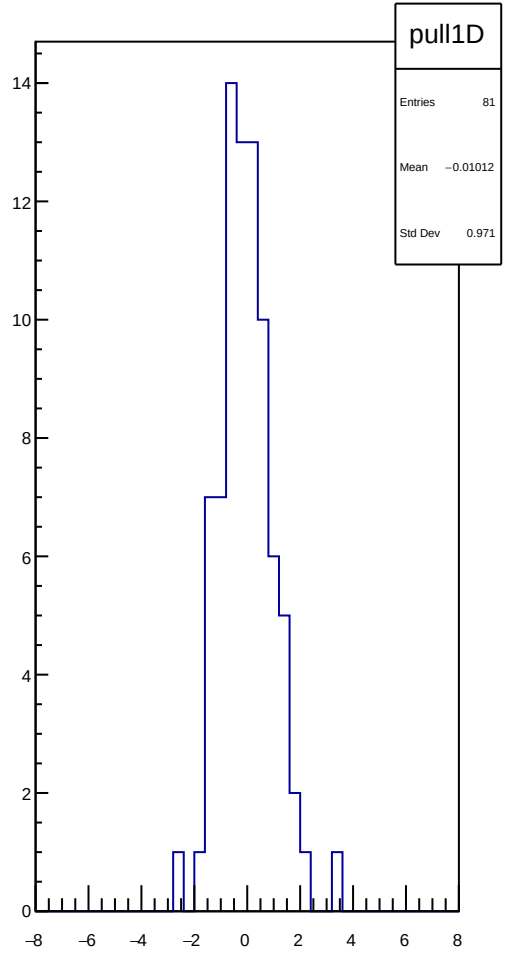

reg_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 1.024e+04 / 80
p0 58.78 ± 0.0472
70
65
60
55
50

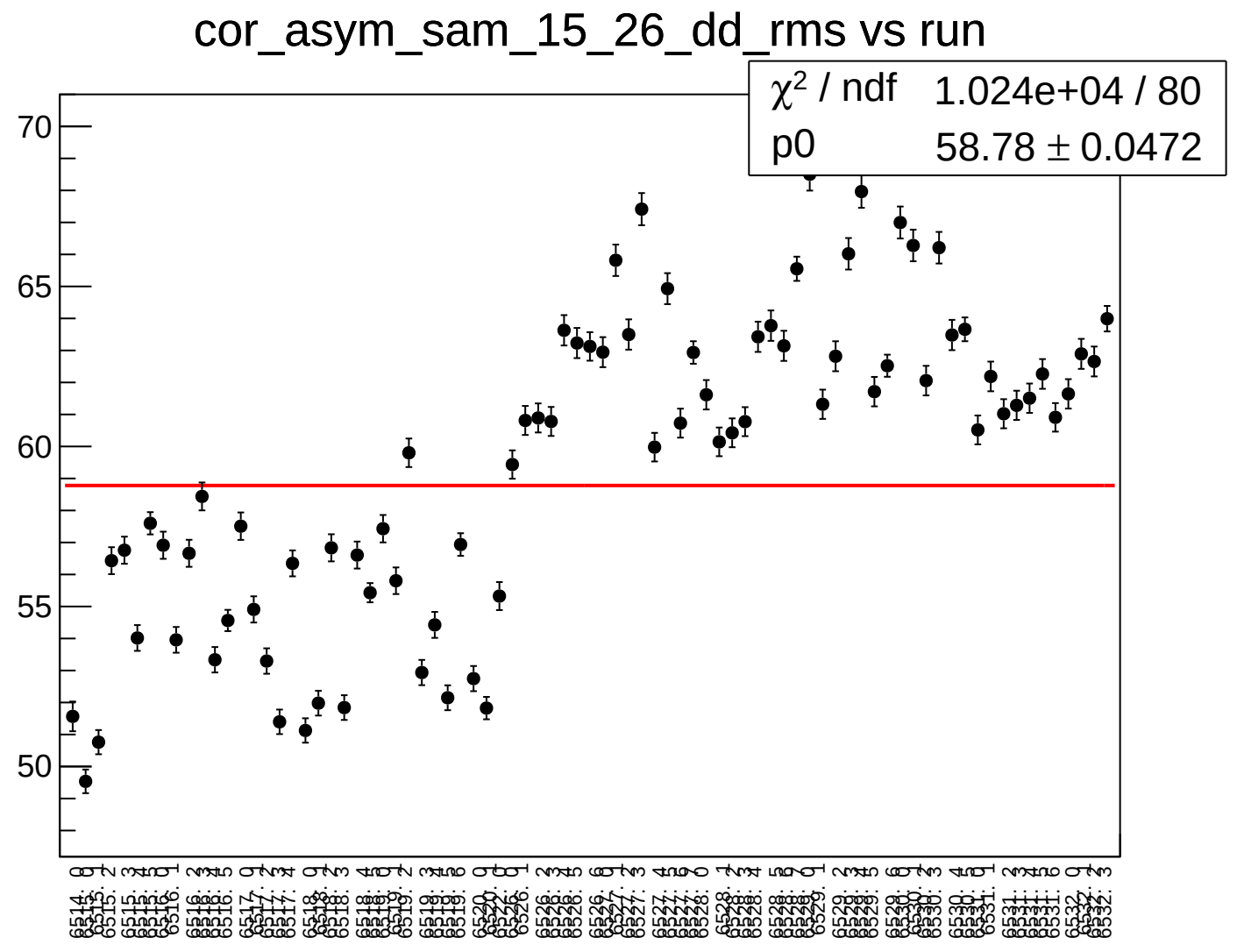

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 69.6 / 80
p0 −673 ± 465
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean −212.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

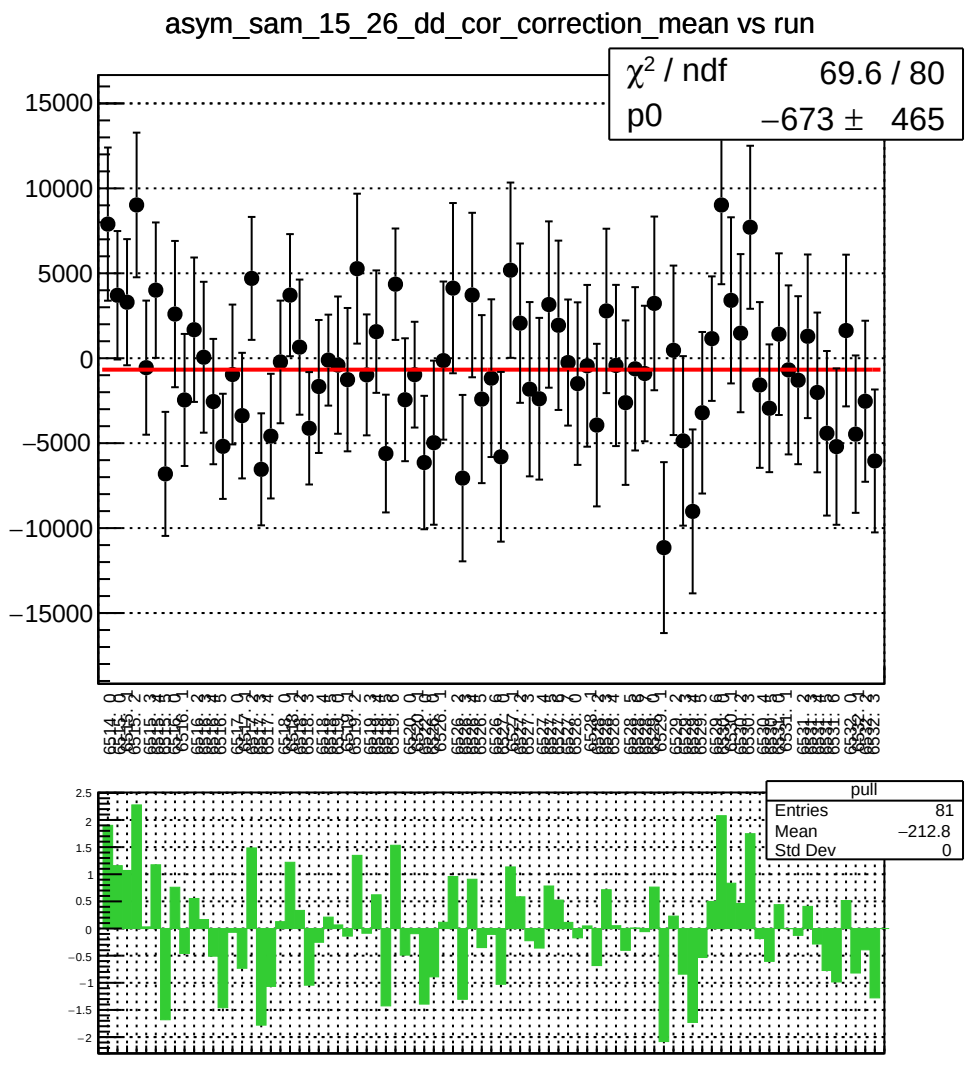

pull1D
Entries 81
Mean 0.01303
Std Dev 0.9269
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

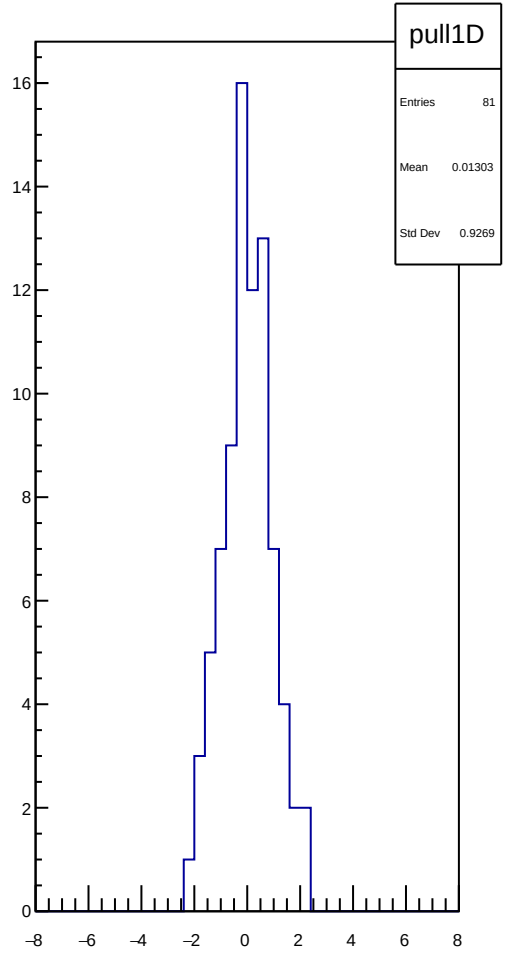

asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 2.798e+04 / 80
p0 407.1 ± 0.3288
500
450
400
350
300

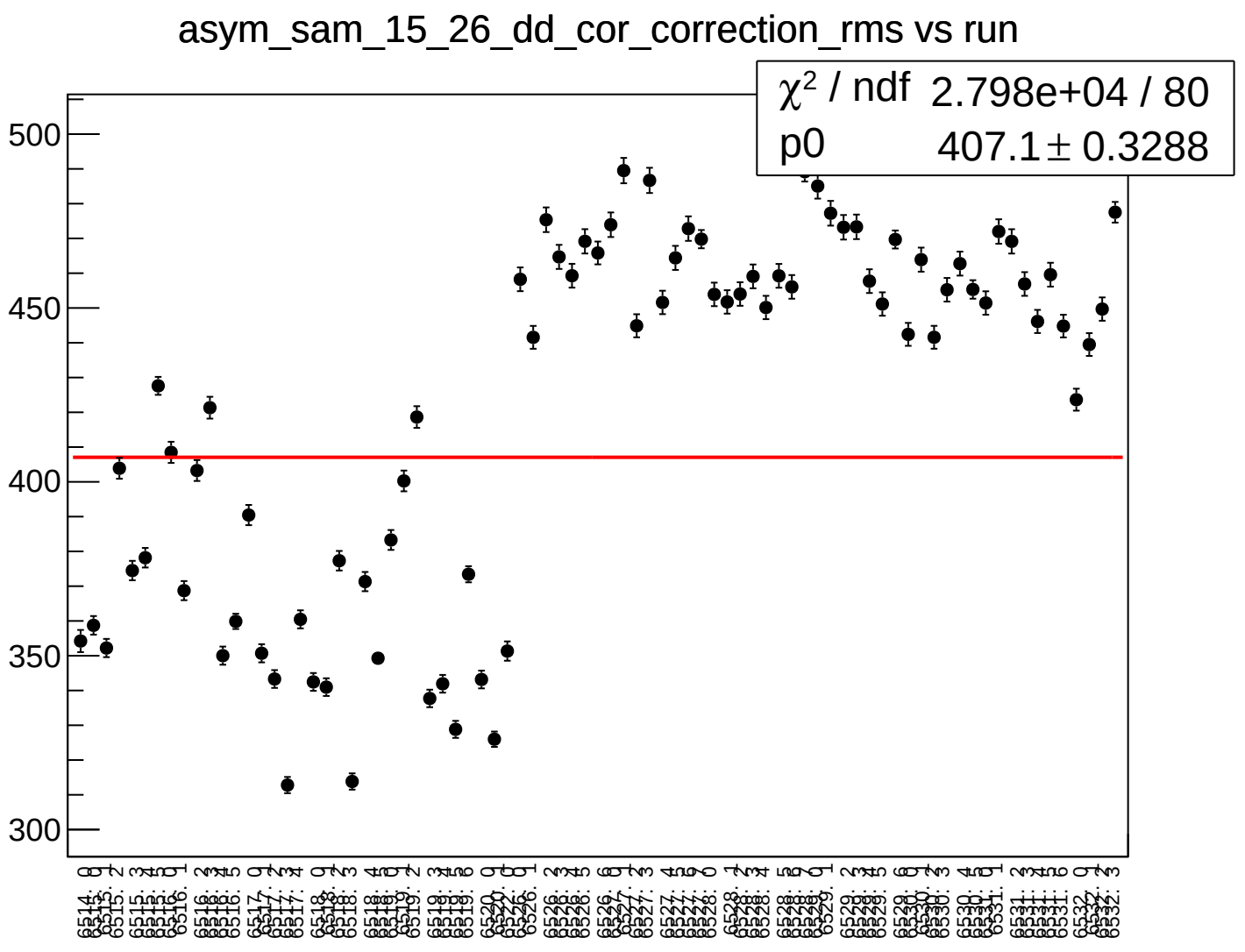

cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 76.37 / 80
p0 29.71 ± 66.76
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 81
Mean −5.099
Std Dev 0
3
2
1
0
−1
−2

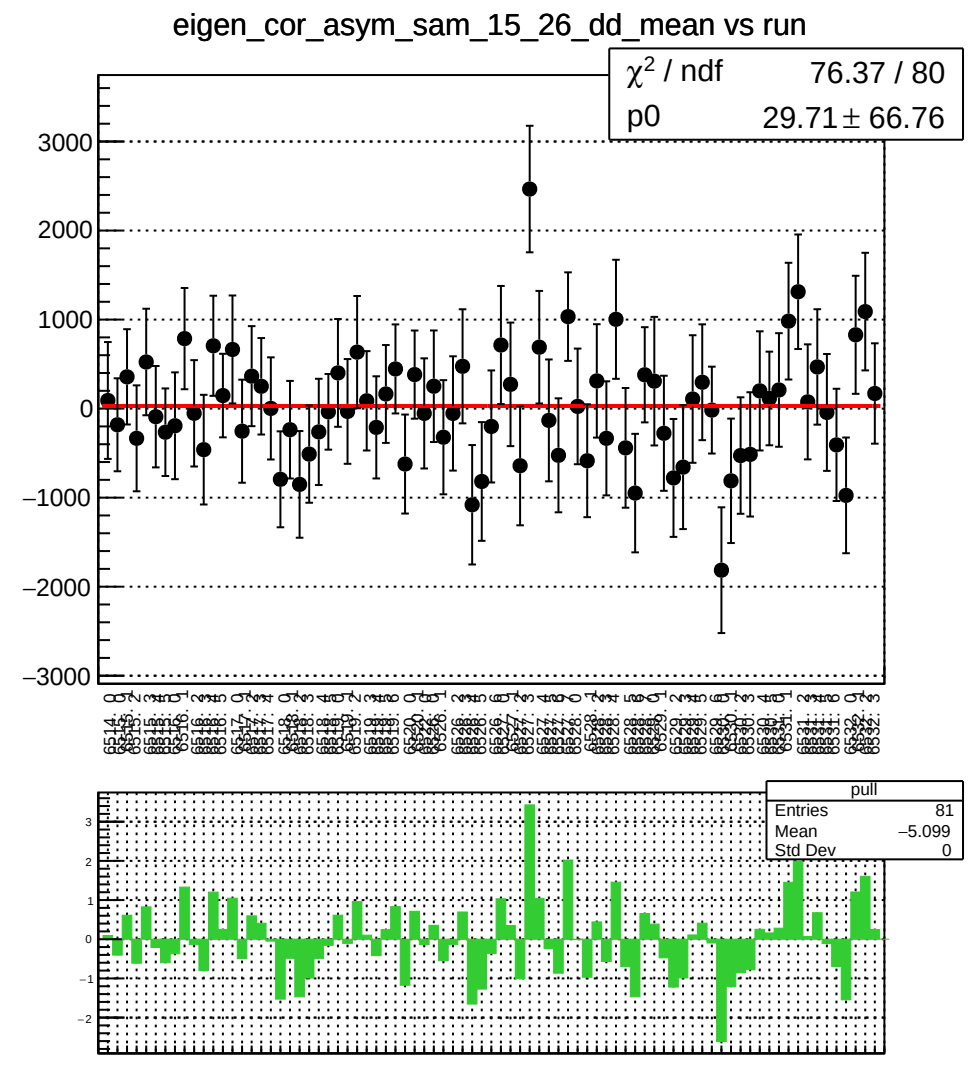

pull1D
Entries 81
Mean −0.01012
Std Dev 0.971
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

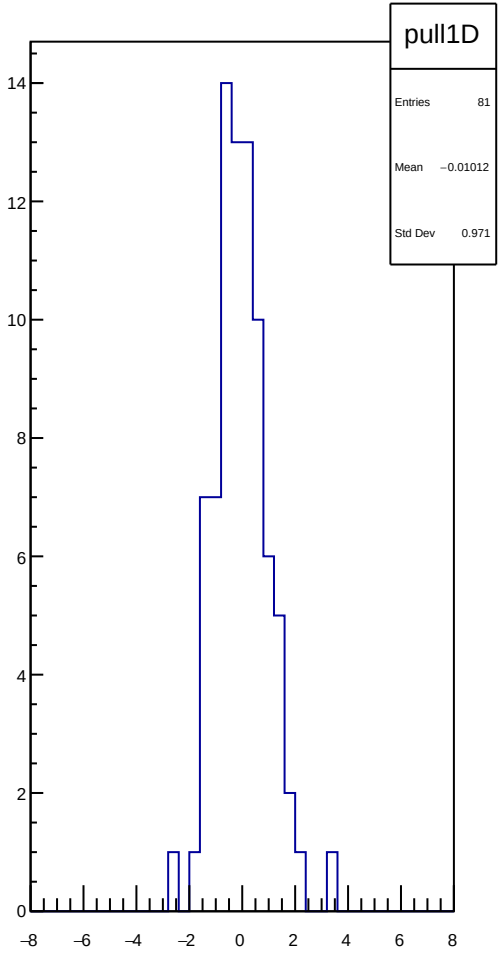

cor_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 1.024e+04 / 80
p0 58.78 ± 0.0472
70
65
60
55
50

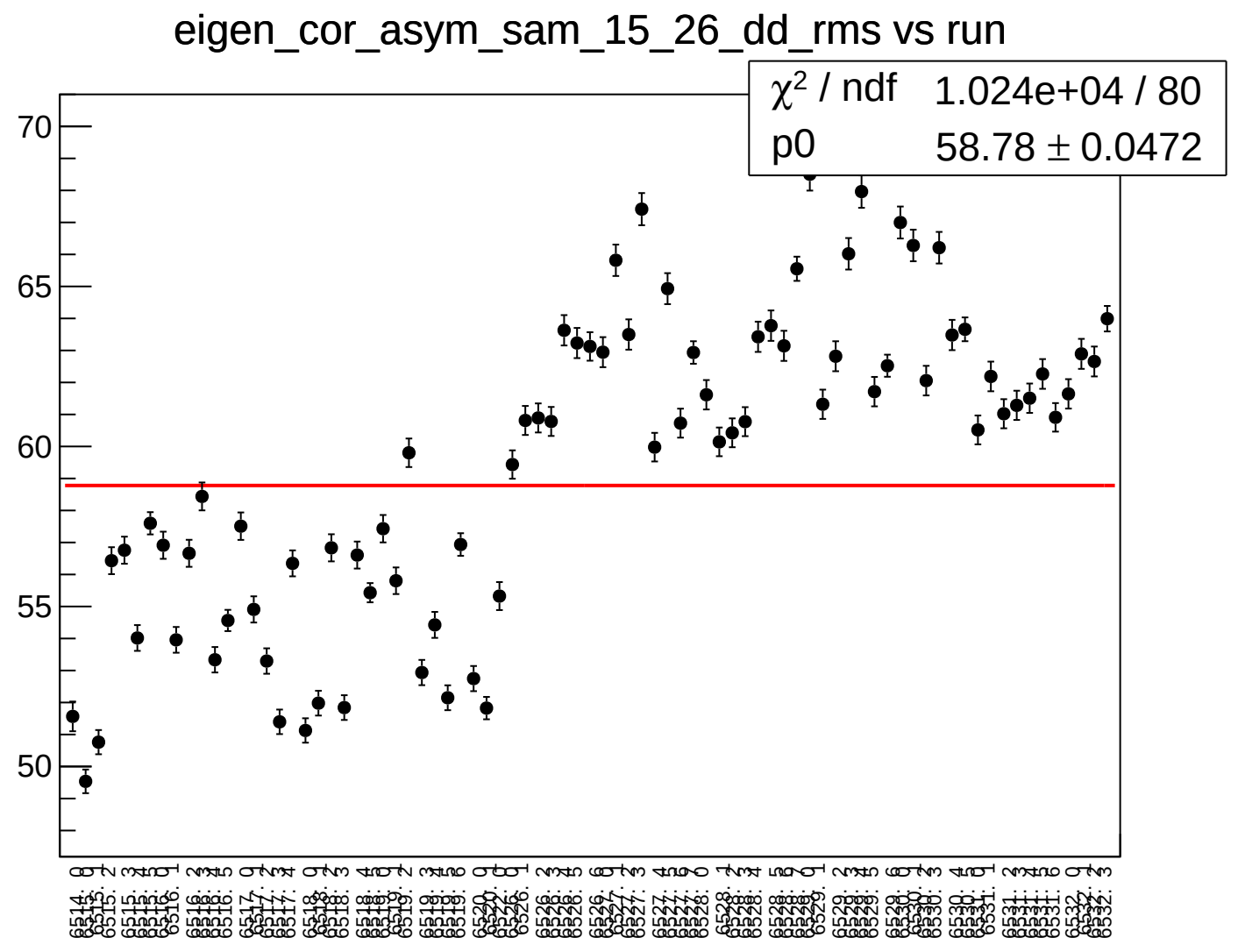

asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 69.6 / 80
p0 −673 ± 465
pull
Entries 81
Mean −212.8
Std Dev 0

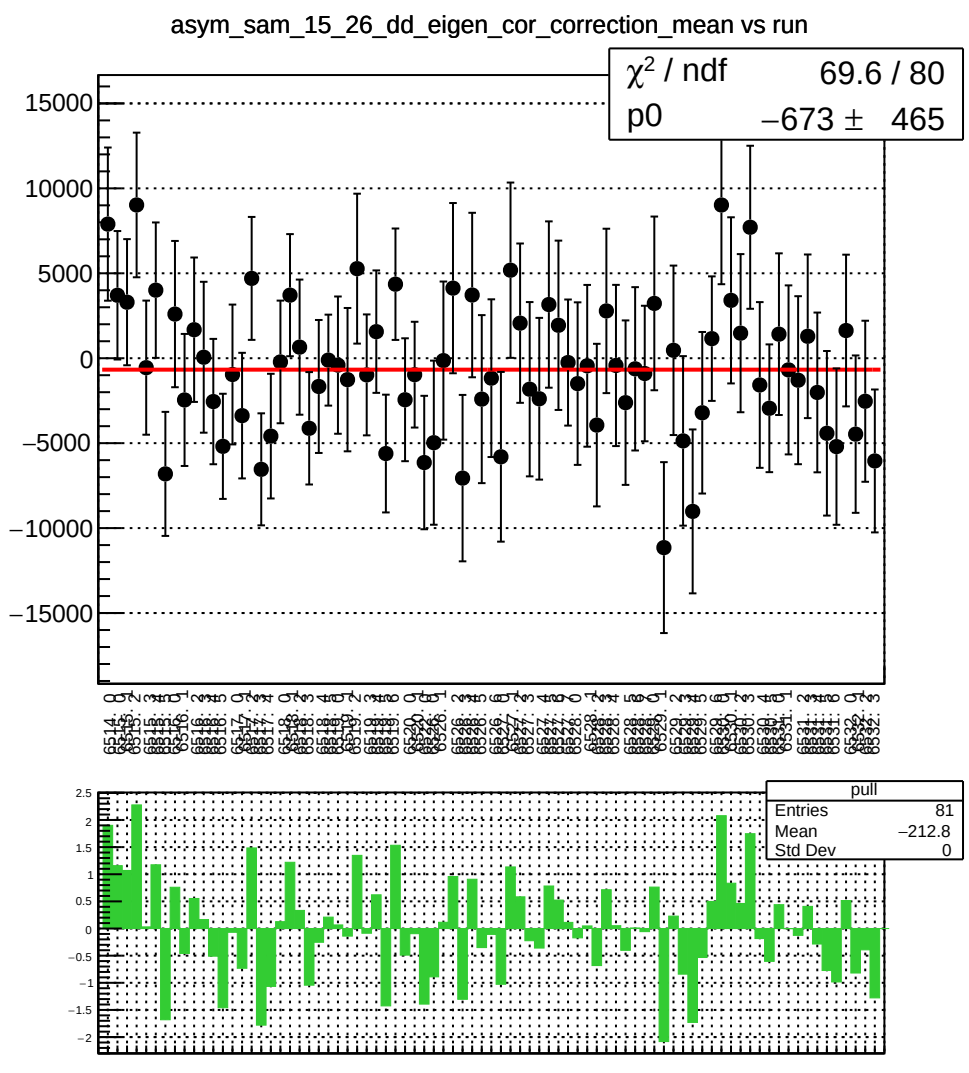

pull1D
Entries 81
Mean 0.01303
Std Dev 0.9269

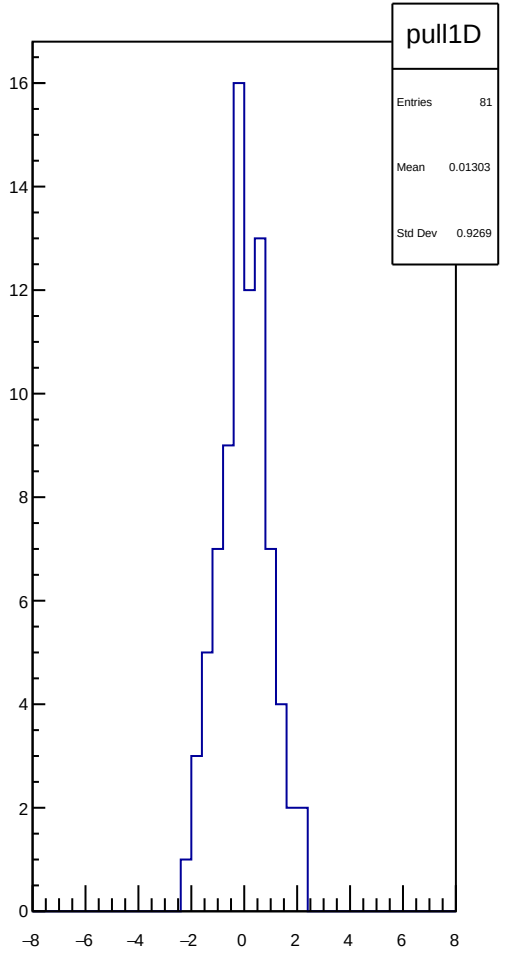

asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 2.798e+04 / 80
p0 407.1 ± 0.3288
500
450
400
350
300

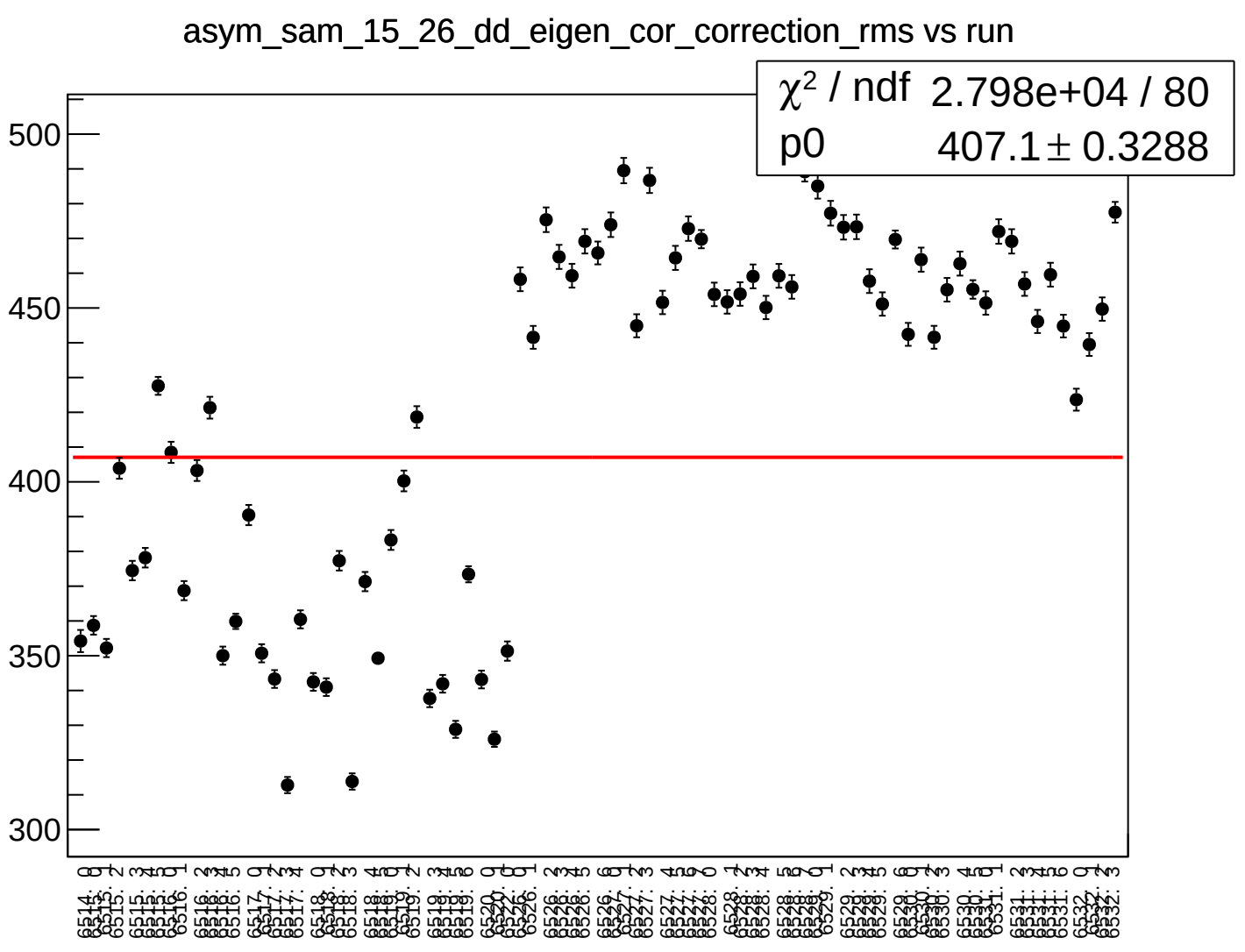

eigen_cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 76.37 / 80
p0 29.71 ± 66.76
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 81
Mean −5.099
Std Dev 0
3
2
1
0
−1
−2

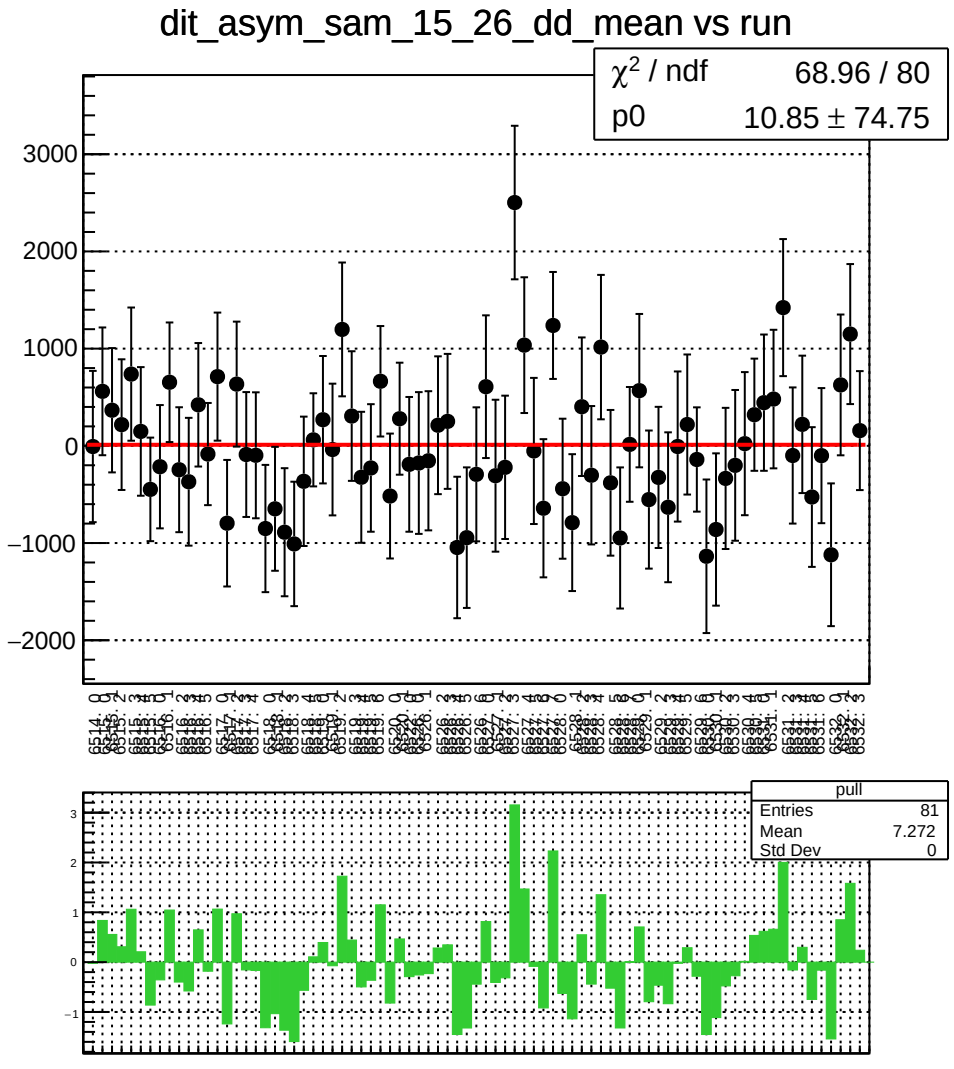

pull1D
Entries 81
Mean −0.01012
Std Dev 0.971
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

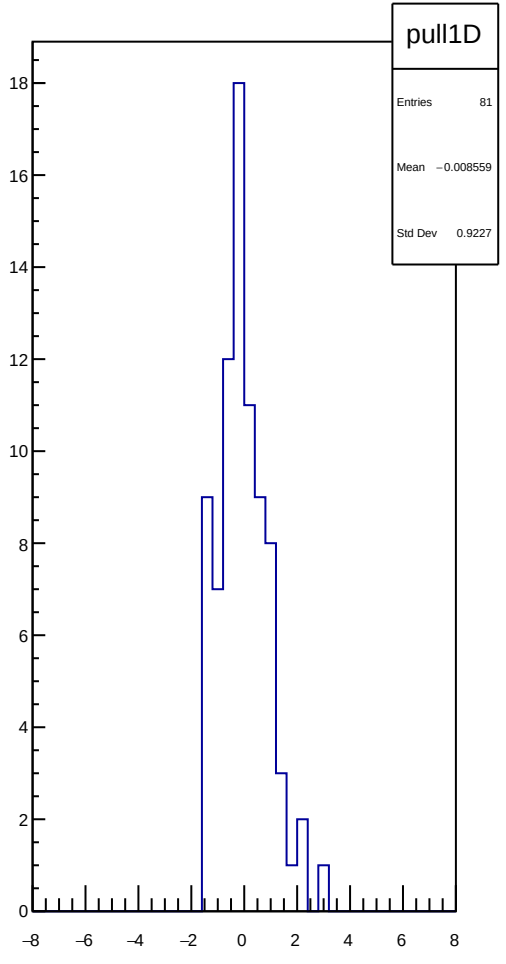

eigen_cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 1.024e+04 / 80
p0 58.78 ± 0.0472
70
65
60
55
50

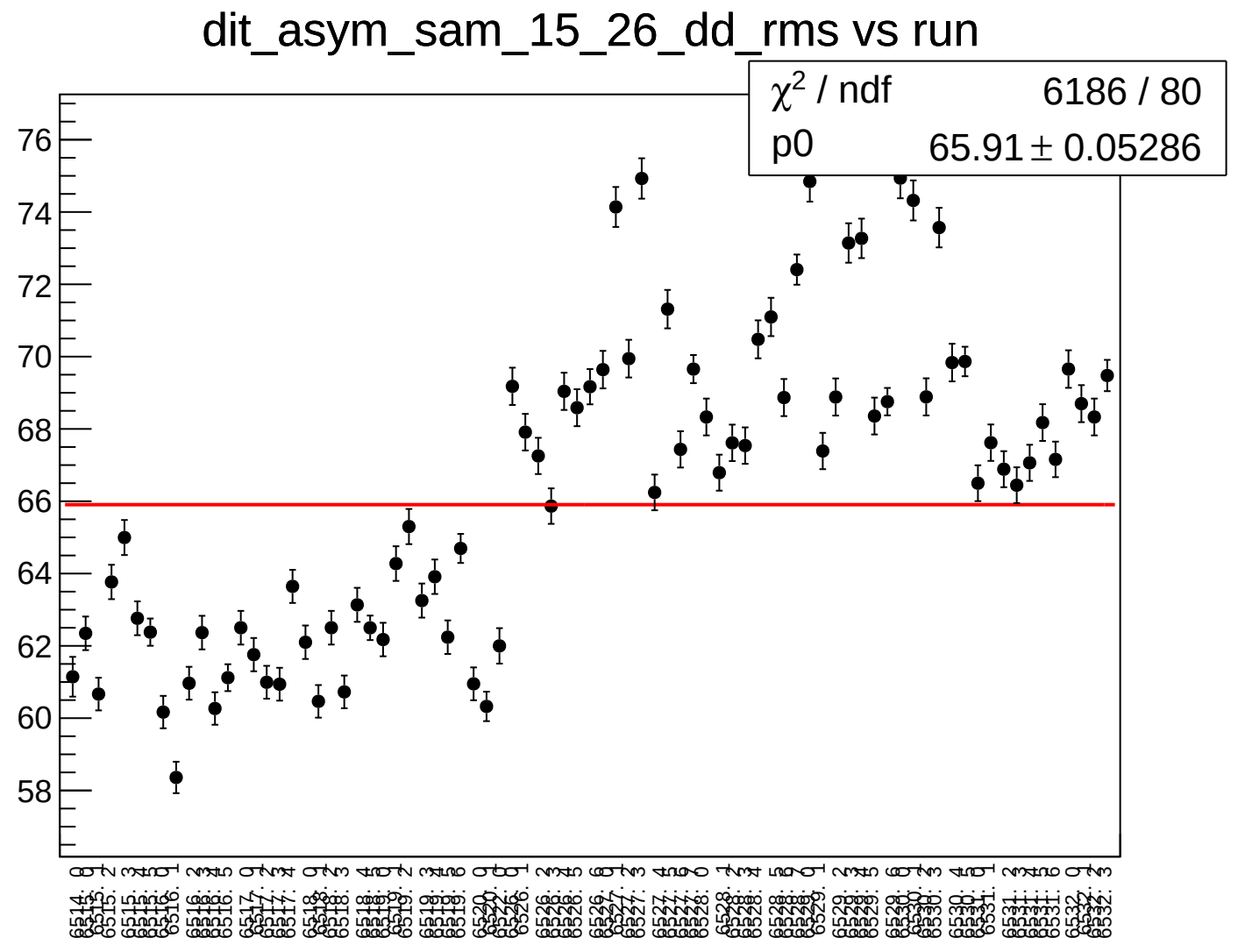

asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 69.6 / 80
p0 −673 ± 465
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean −212.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

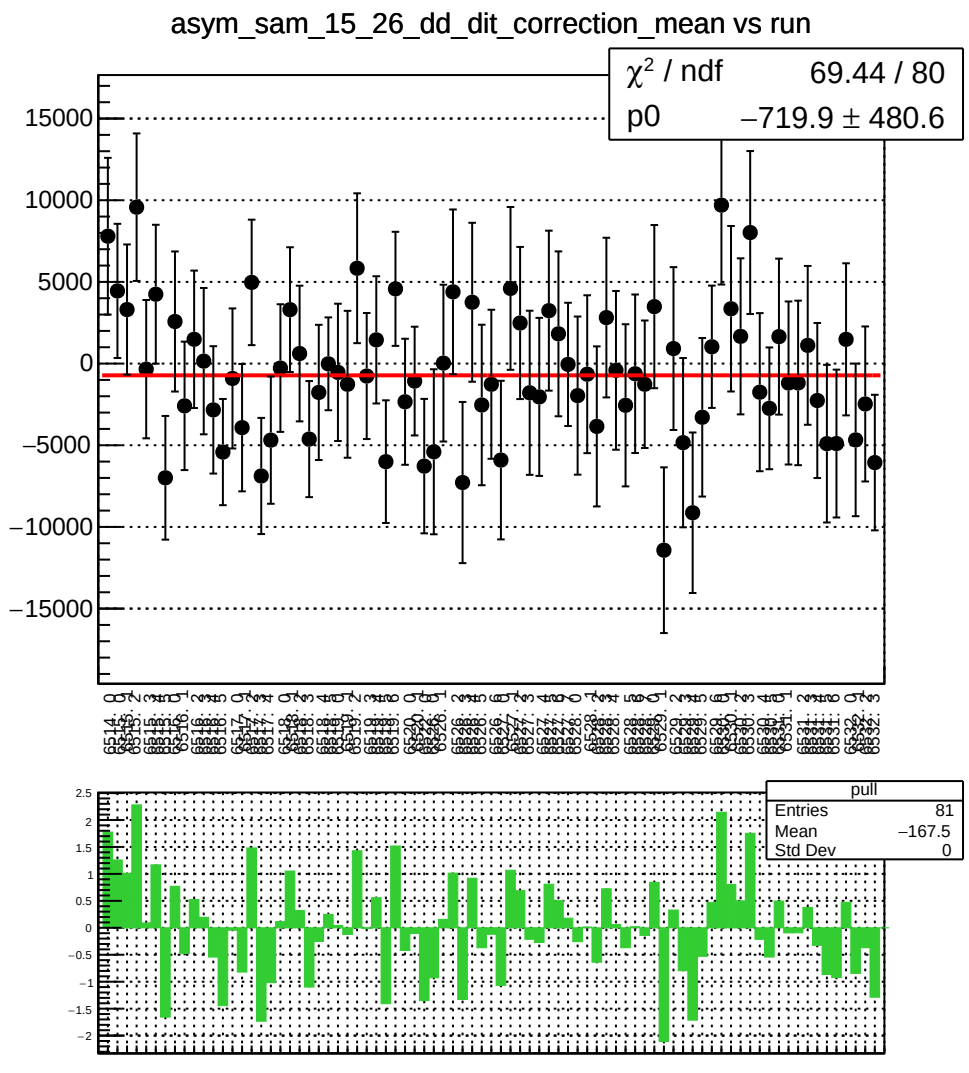

pull1D
Entries 81
Mean 0.01303
Std Dev 0.9269
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

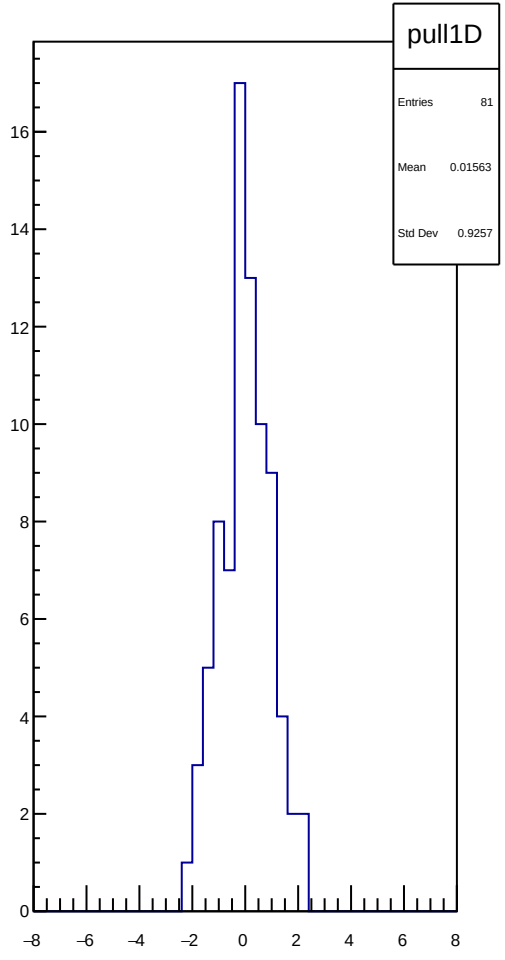

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.798e+04 / 80
p0 407.1 ± 0.3288
500
450
400
350
300

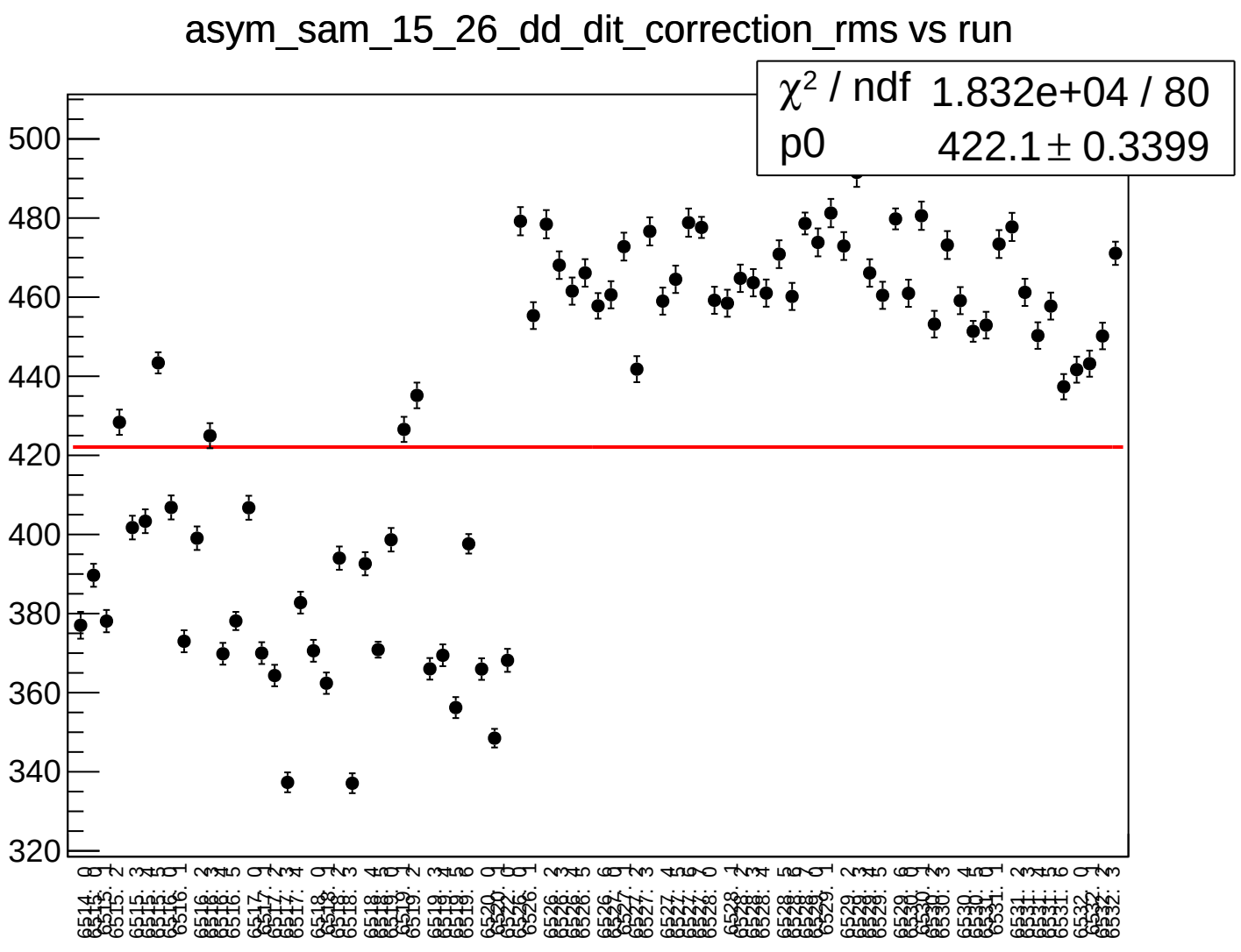

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 68.96 / 80
p0 10.85 ± 74.75
3000
2000
1000
0
−1000
−2000
pull
Entries 81
Mean 7.272
Std Dev 0
3
2
1
0
−1

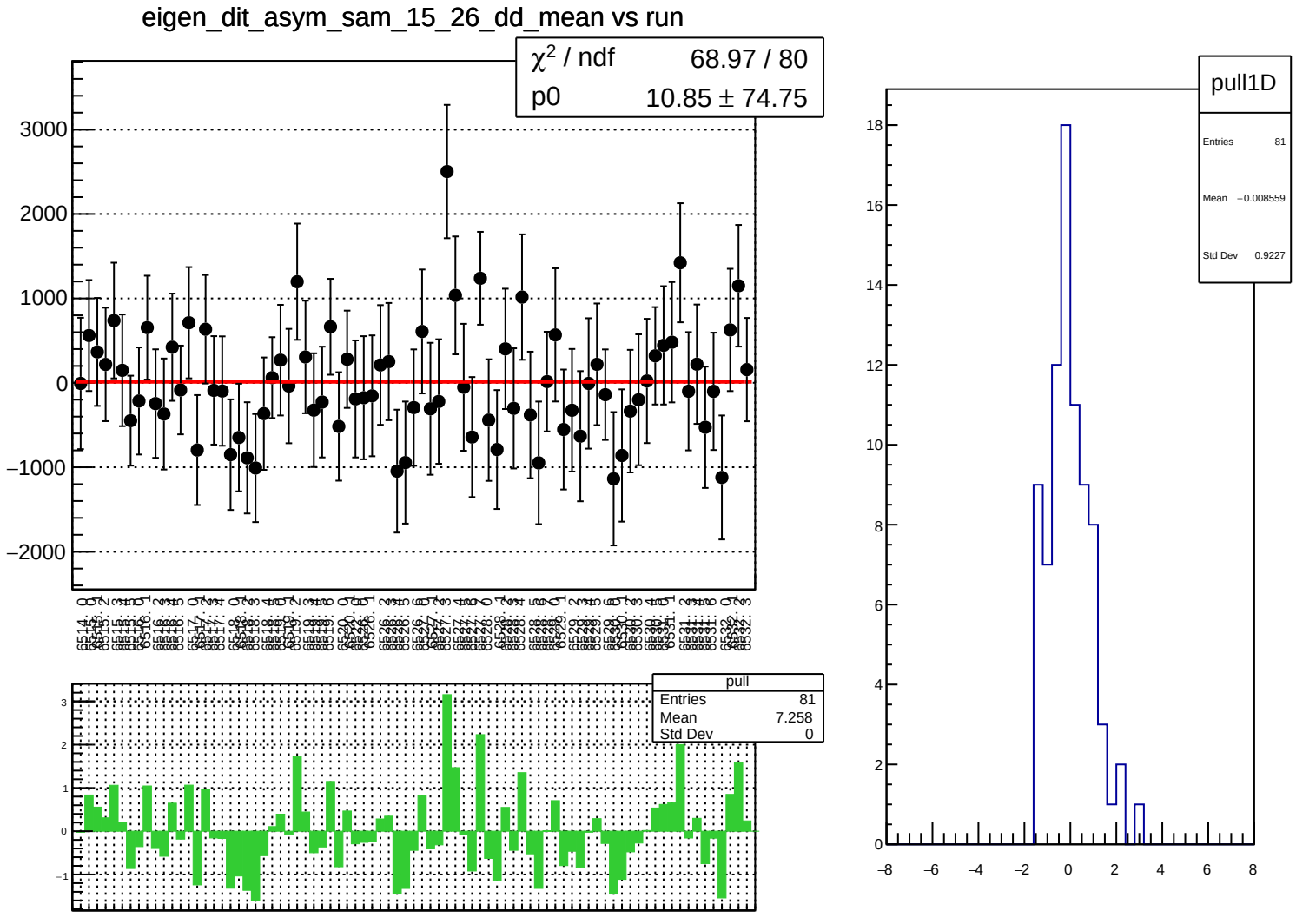

pull1D
Entries 81
Mean −0.008559
Std Dev 0.9227
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

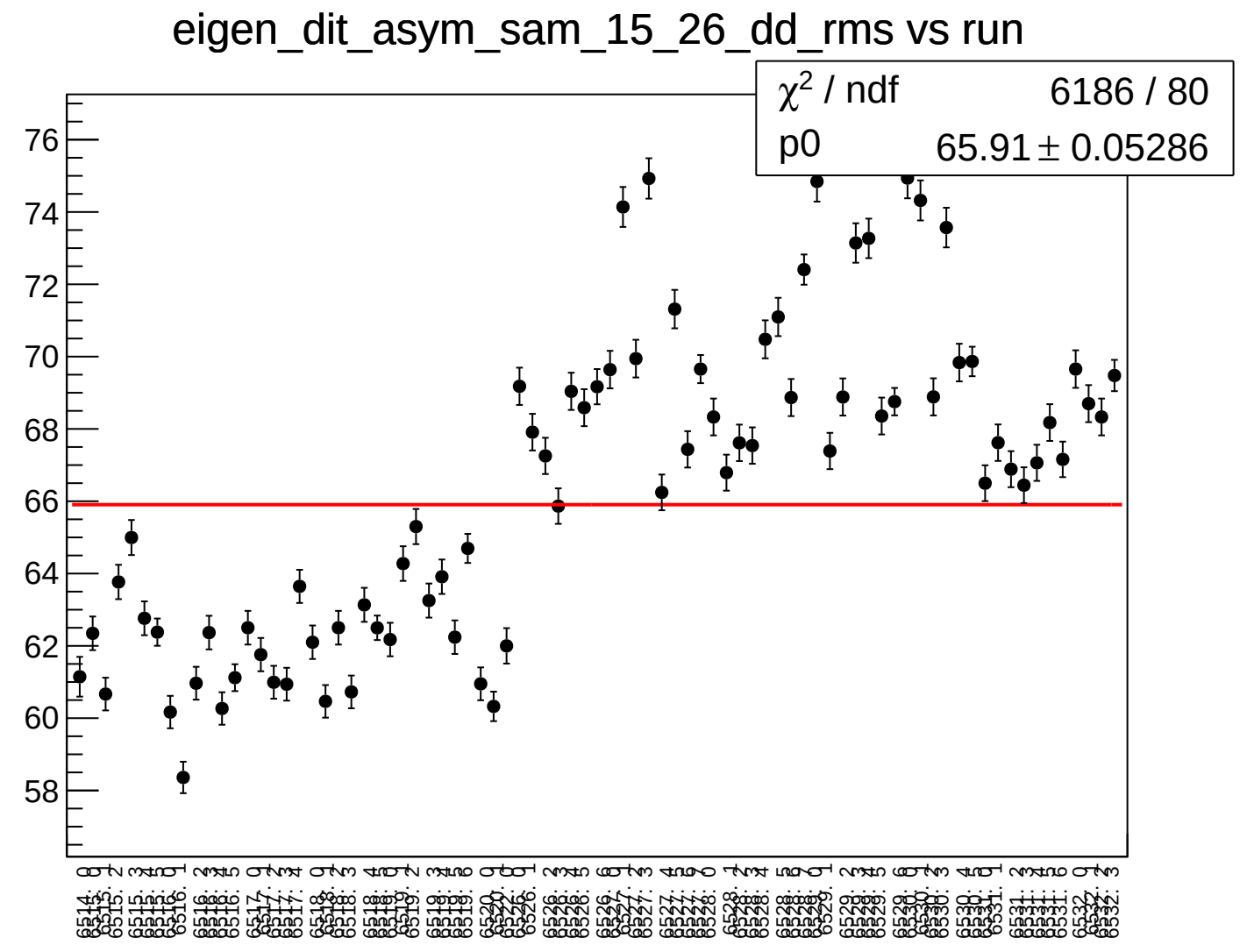

dit_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 6186 / 80
p0 65.91 ± 0.05286
76
74
72
70
68
66
64
62
60
58

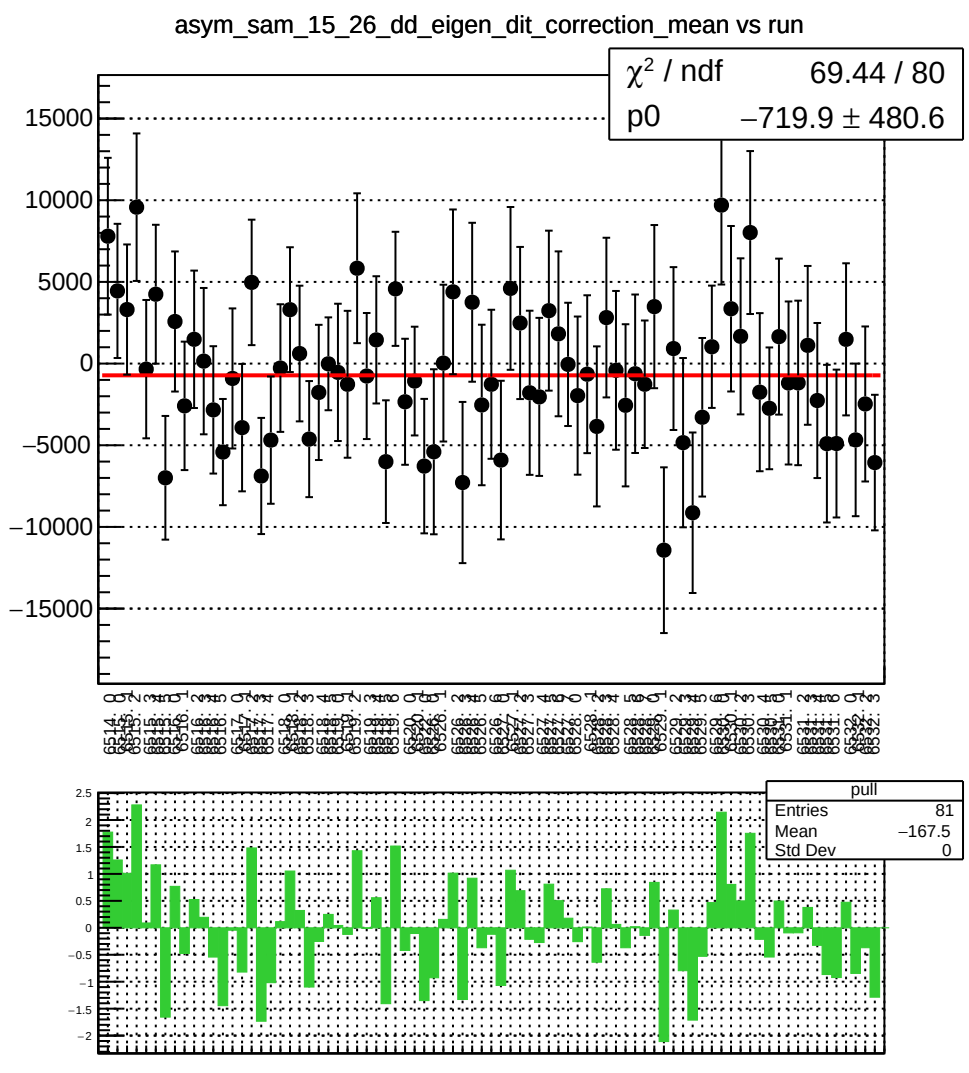

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 69.44 / 80
p0 −719.9 ± 480.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean −167.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

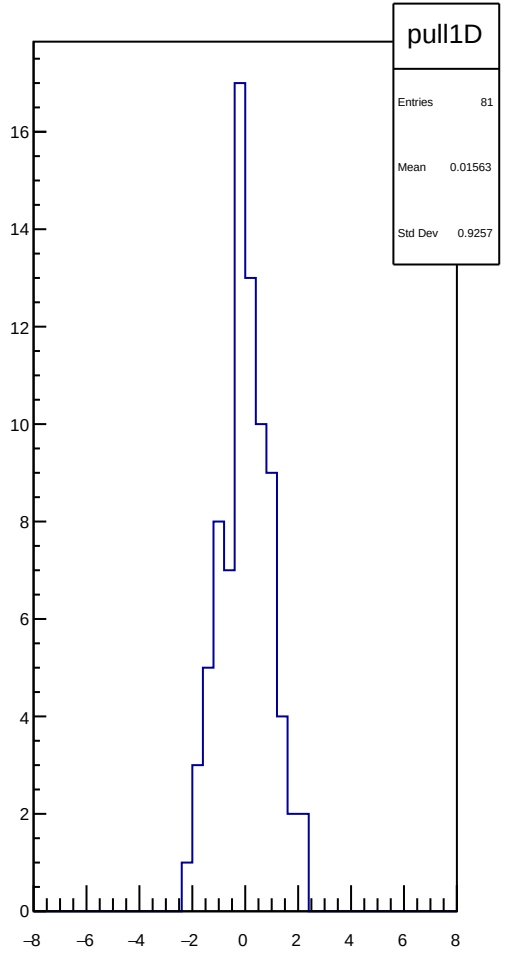

pull1D
Entries 81
Mean 0.01563
Std Dev 0.9257
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

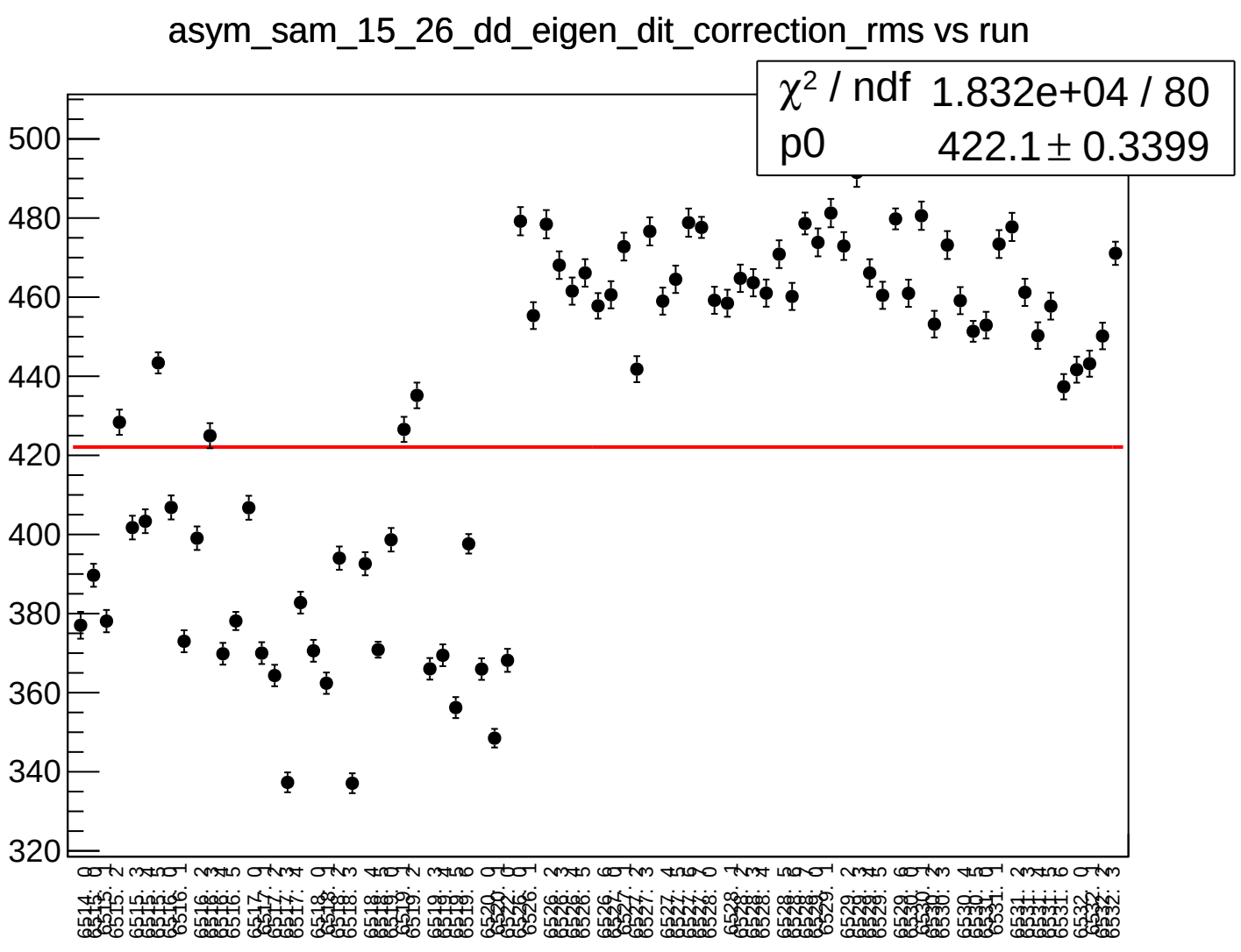

asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 1.832e+04 / 80
p0 422.1 ± 0.3399
500
480
460
440
420
400
380
360
340
320

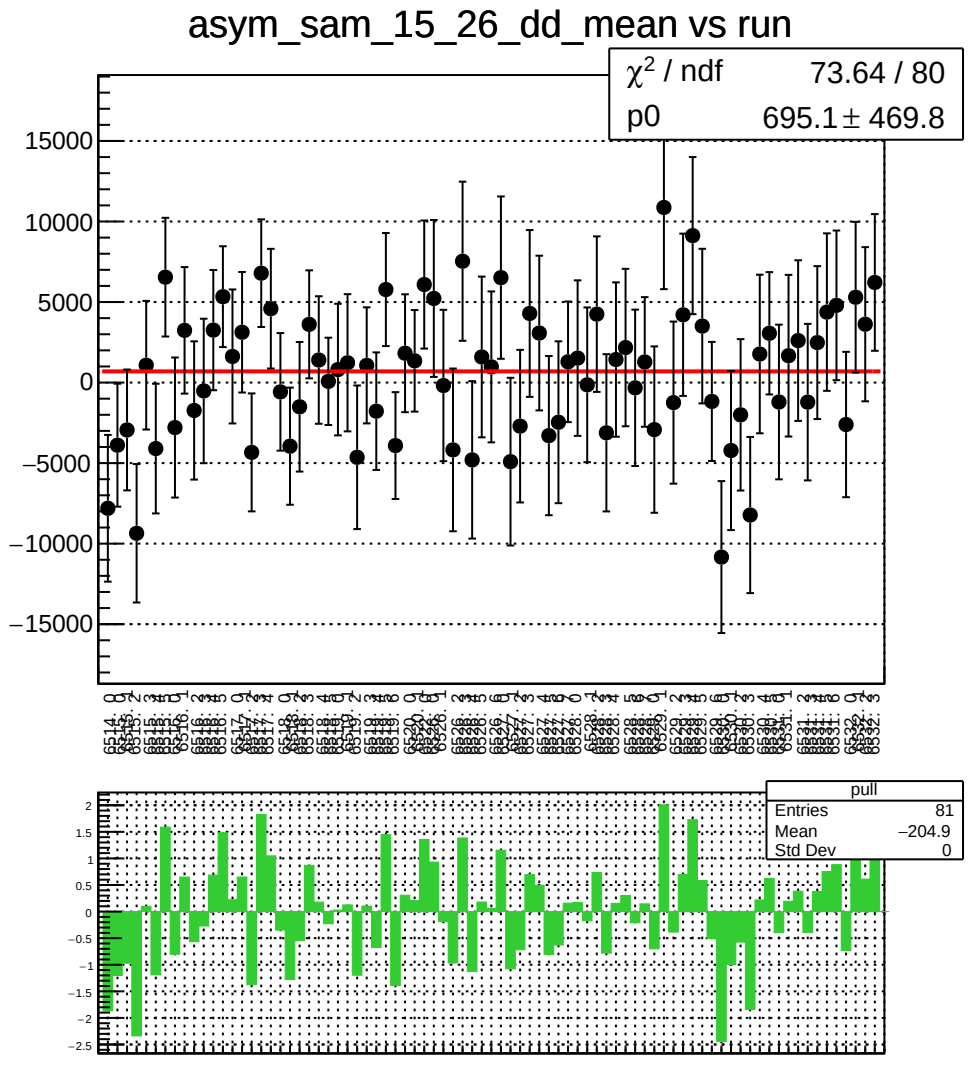

eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 68.97 / 80
p0 10.85 ± 74.75
3000
2000
1000
0
−1000
−2000
pull
Entries 81
Mean 7.258
Std Dev 0
pull1D
Entries 81
Mean −0.008559
Std Dev 0.9227
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

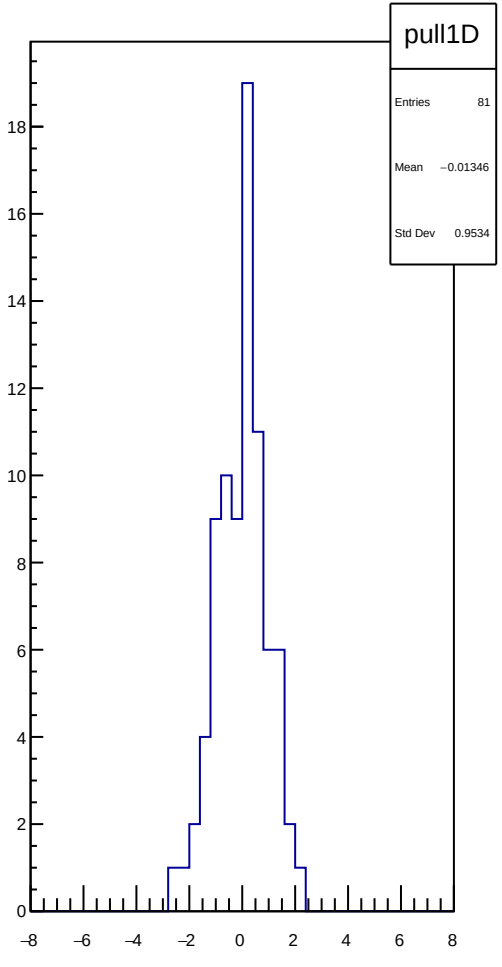

eigen_dit_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 6186 / 80
p0 65.91 ± 0.05286
76
74
72
70
68
66
64
62
60
58

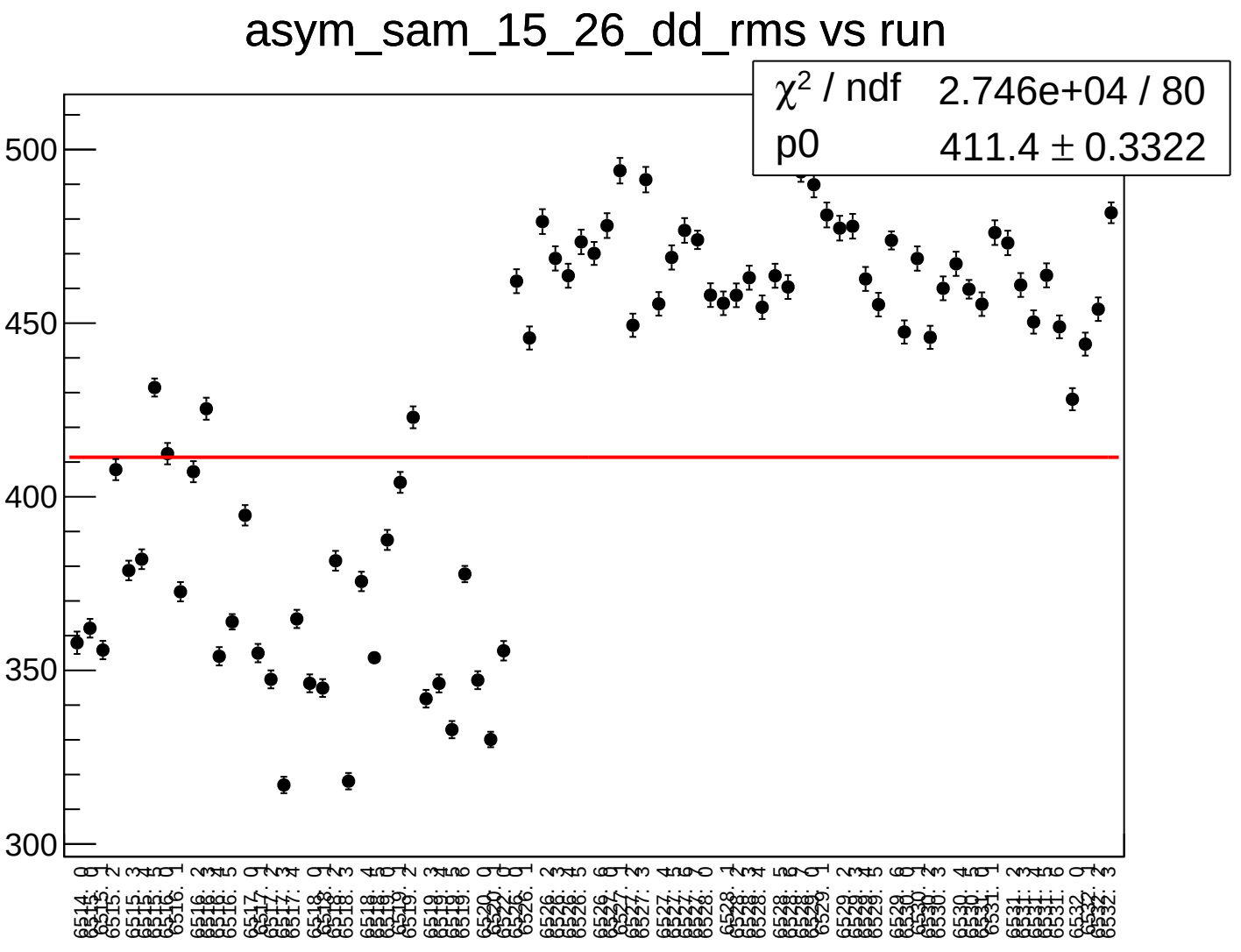

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 69.44 / 80
p0 −719.9 ± 480.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean −167.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

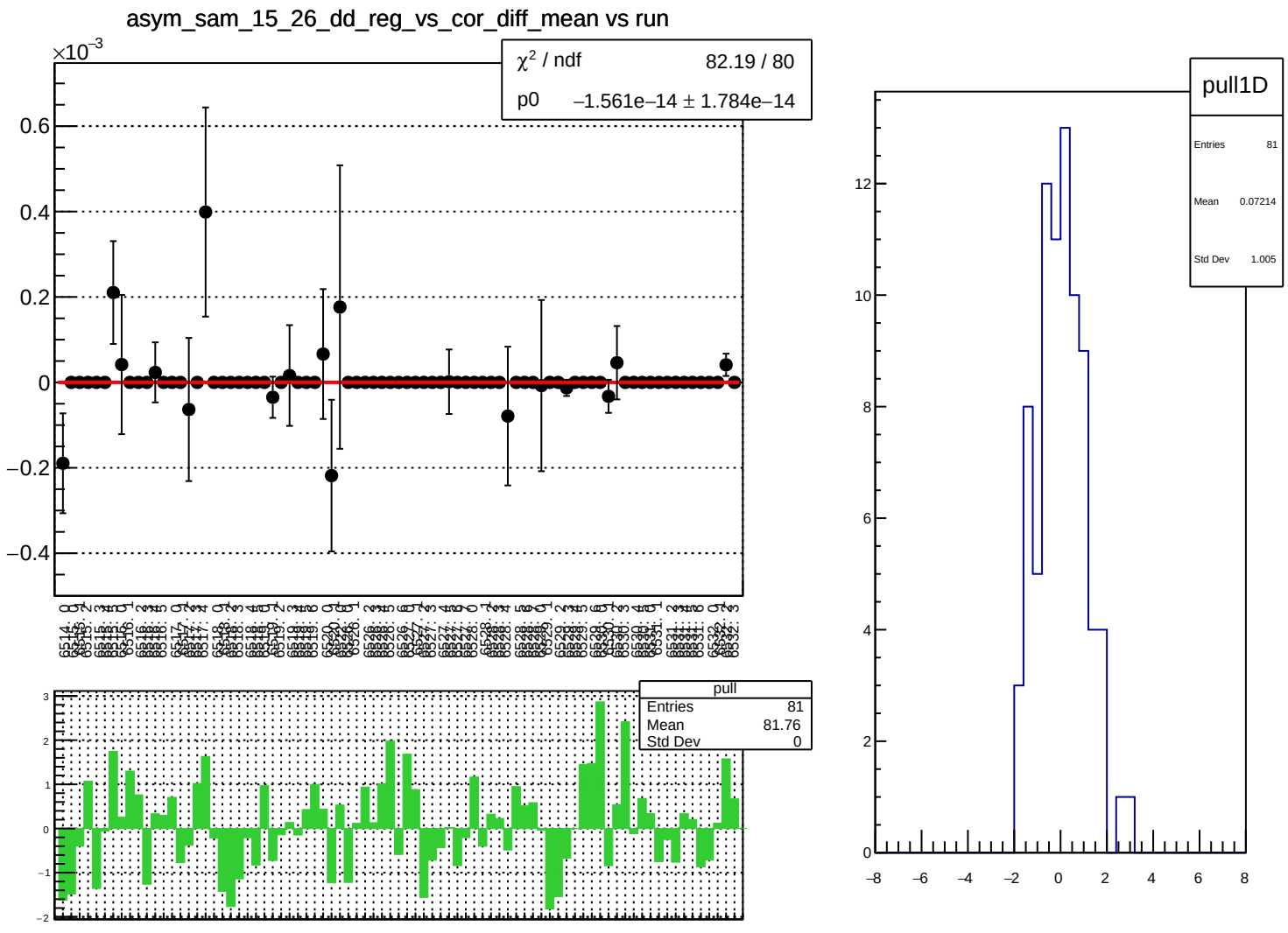

pull1D
Entries 81
Mean 0.01563
Std Dev 0.9257
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

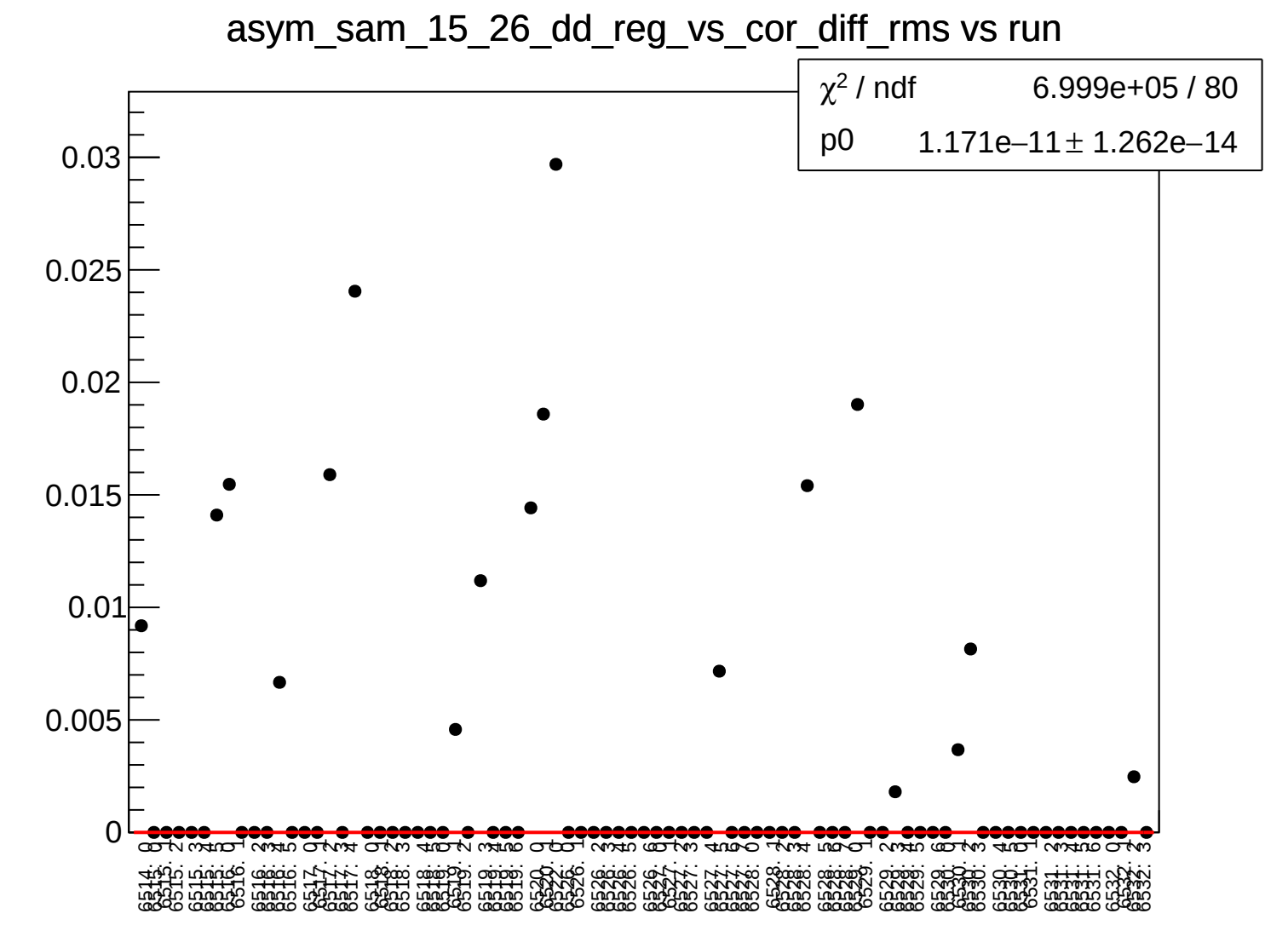

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.832e+04 / 80
p0 422.1 ± 0.3399
500
480
460
440
420
400
380
360
340
320

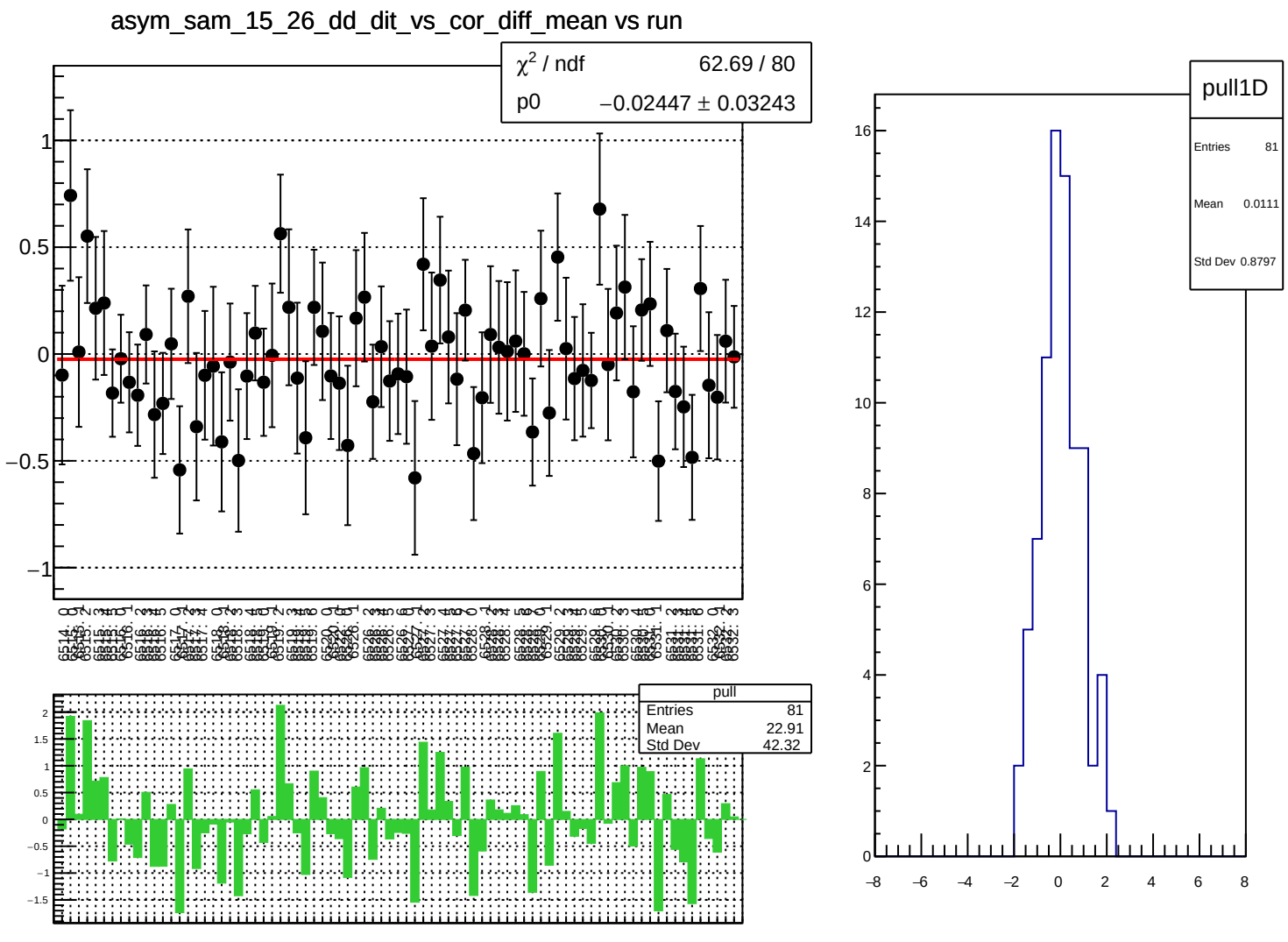

asym_sam_15_26_dd_mean vs run
χ² / ndf 73.64 / 80
p0 695.1 ± 469.8
pull
Entries 81
Mean −204.9
Std Dev 0

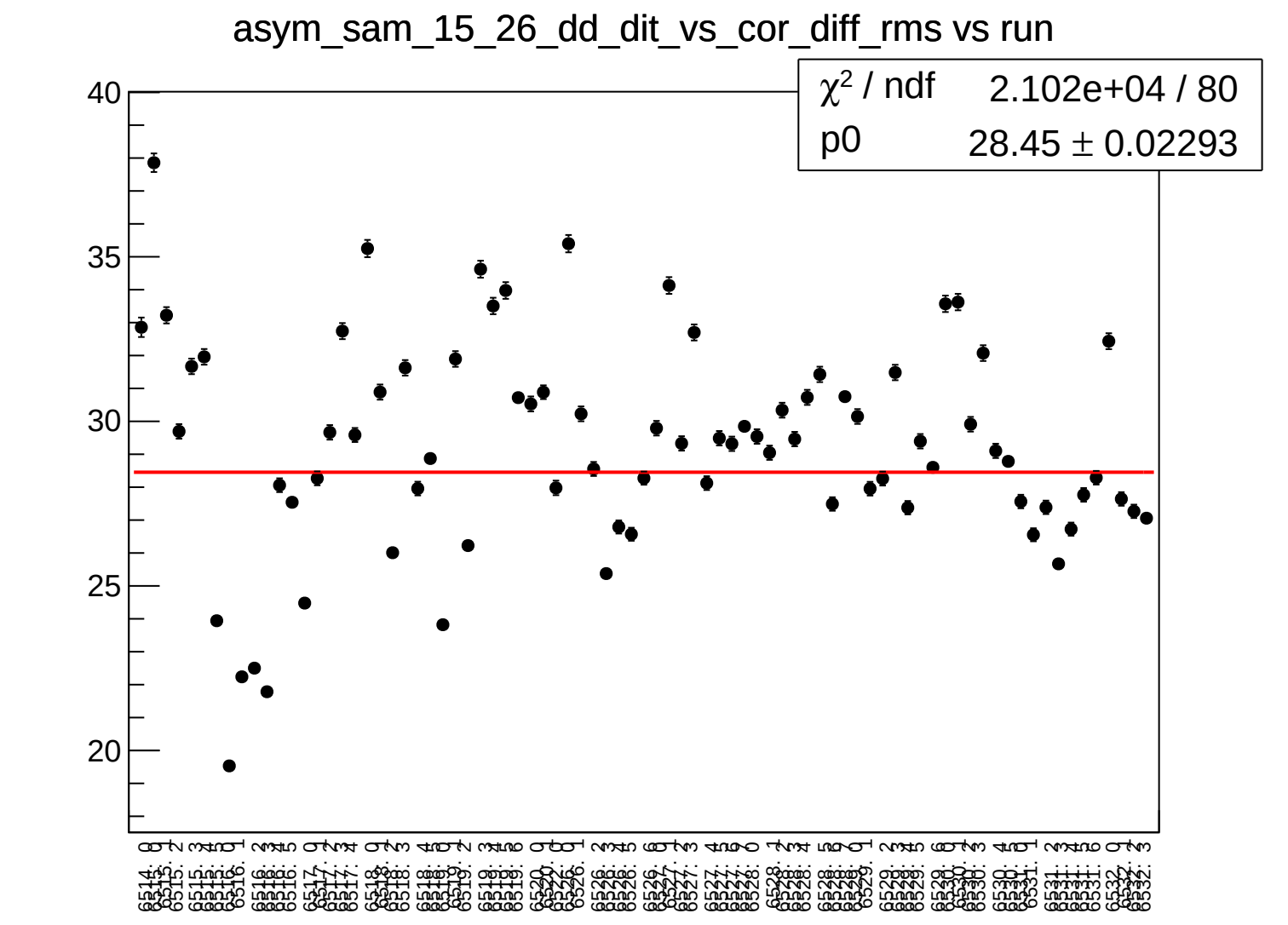

pull1D
Entries 81
Mean −0.01346
Std Dev 0.9534

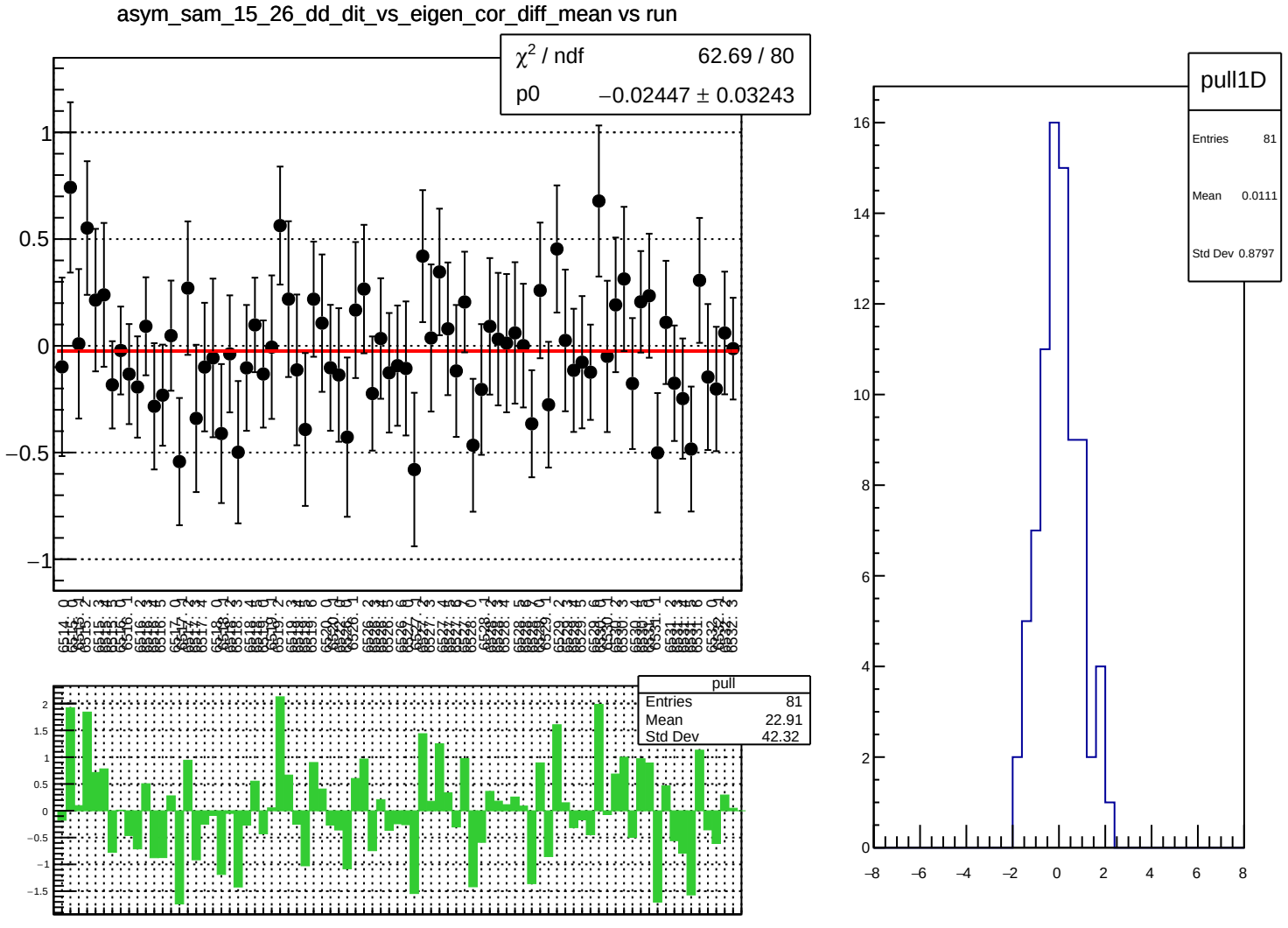

asym_sam_15_26_dd_rms vs run
χ² / ndf 2.746e+04 / 80
p0 411.4 ± 0.3322
500
450
400
350
300

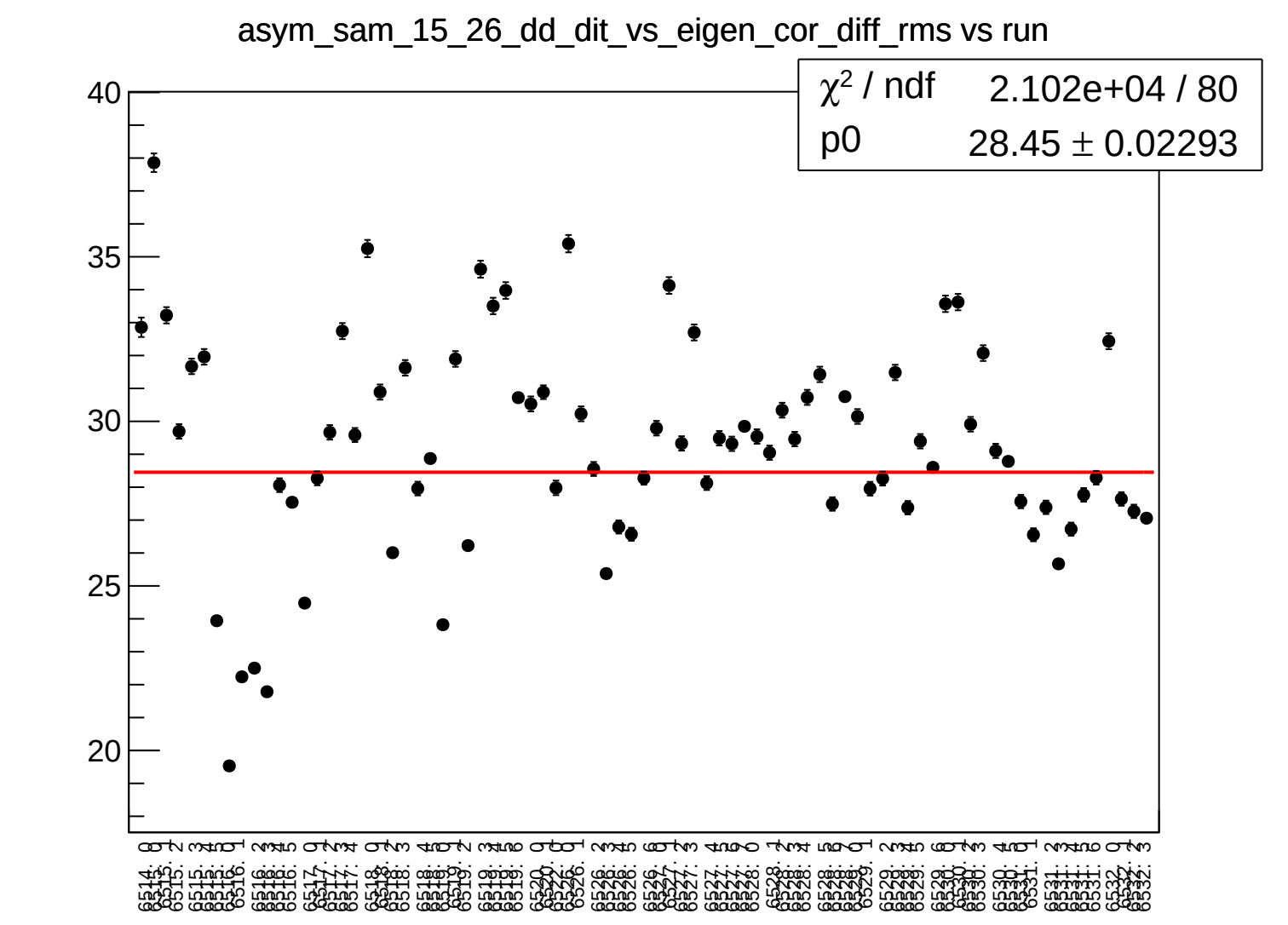

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 82.19 / 80
p0 −1.561e−14 ± 1.784e−14
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 81
Mean 81.76
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 81
Mean 0.07214
Std Dev 1.005
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

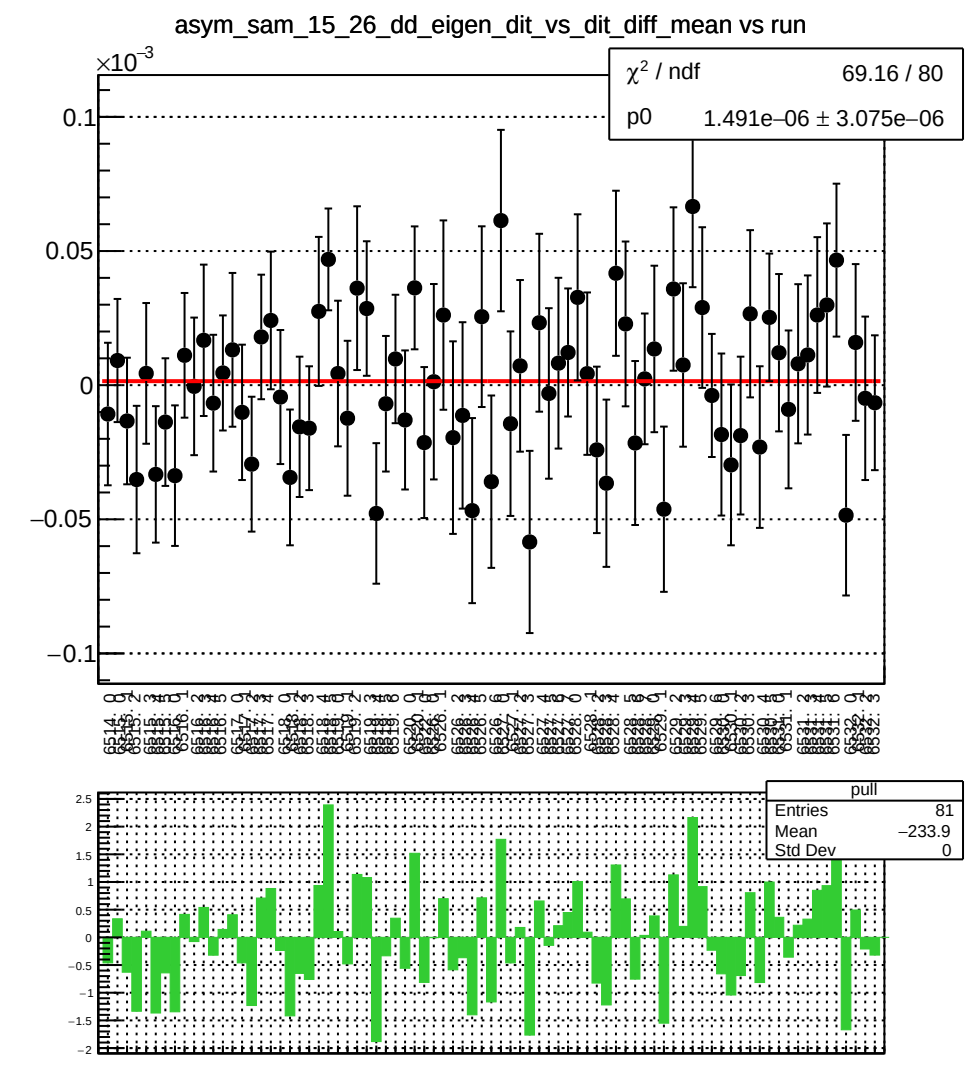

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 6.999e+05 / 80
p0 1.171e−11 ± 1.262e−14
0.03
0.025
0.02
0.015
0.01
0.005
0

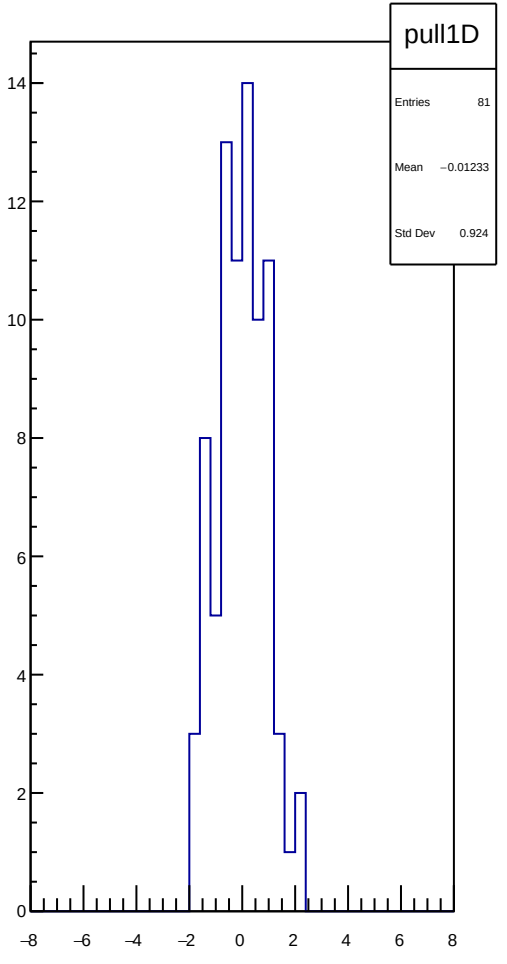

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 62.69 / 80
p0 −0.02447 ± 0.03243
pull
Entries 81
Mean 22.91
Std Dev 42.32
pull1D
Entries 81
Mean 0.0111
Std Dev 0.8797

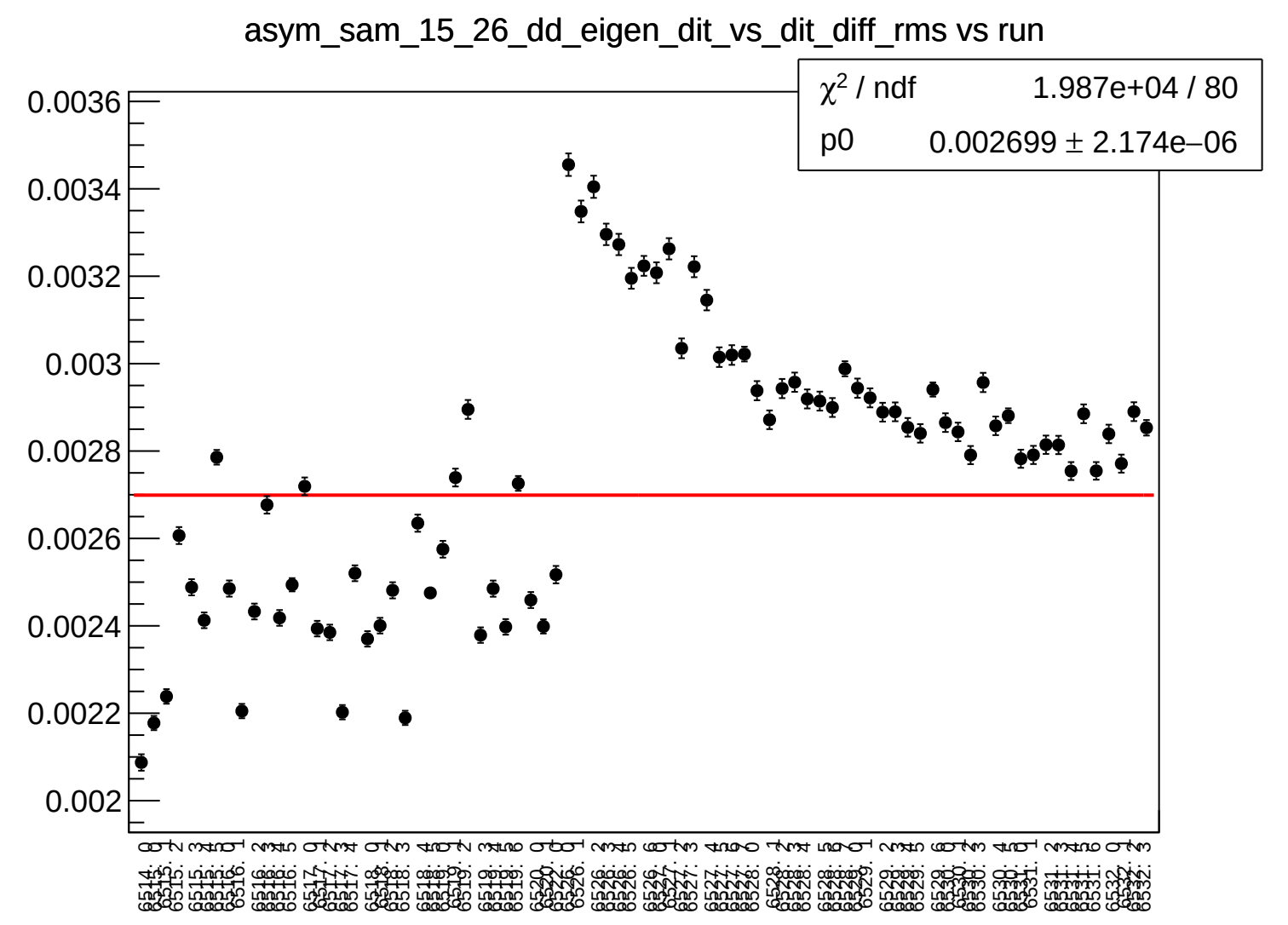

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.102e+04 / 80
p0 28.45 ± 0.02293
40
35
30
25
20

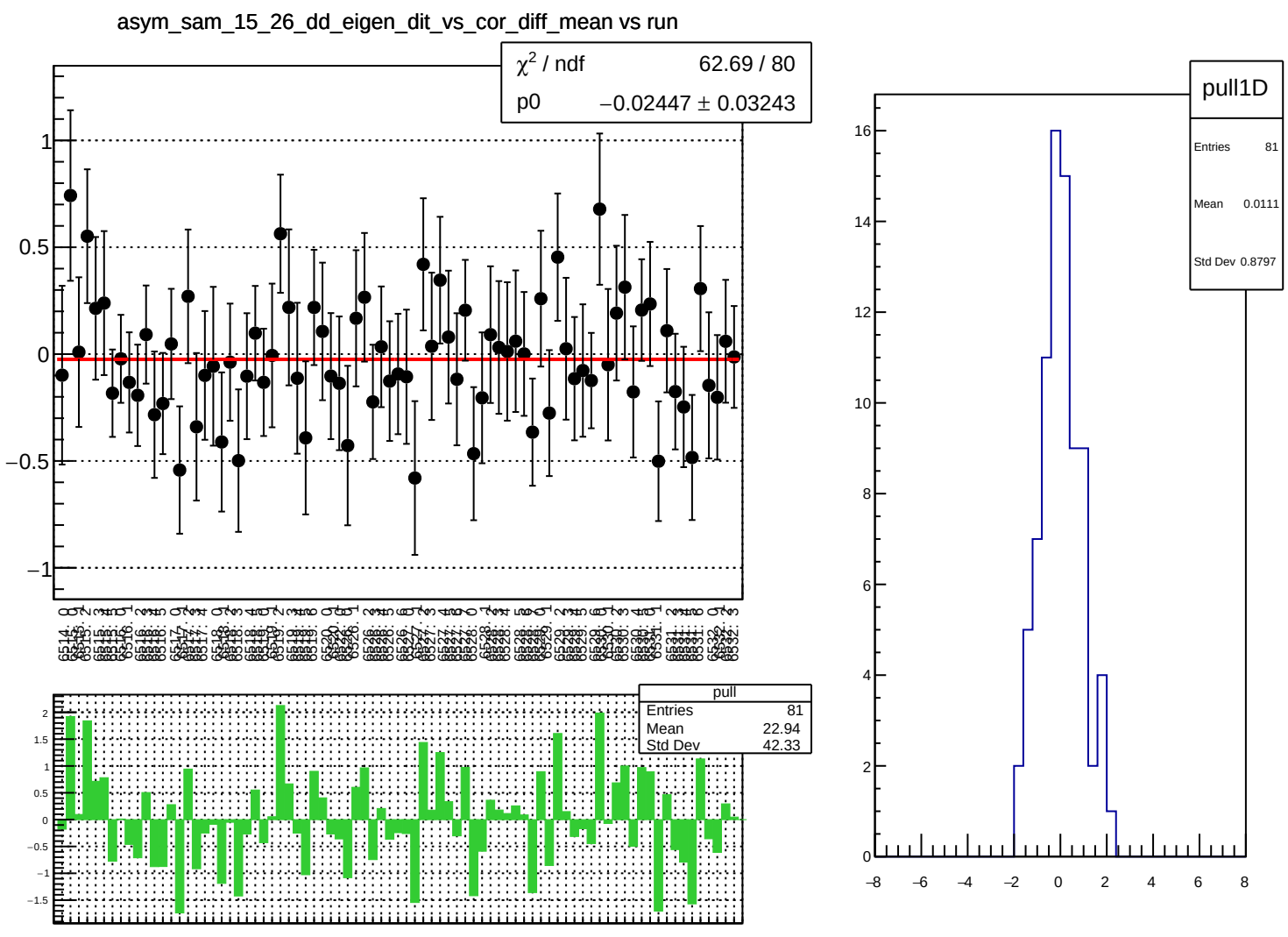

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 62.69 / 80
p0 −0.02447 ± 0.03243
pull
Entries 81
Mean 22.91
Std Dev 42.32
pull1D
Entries 81
Mean 0.0111
Std Dev 0.8797

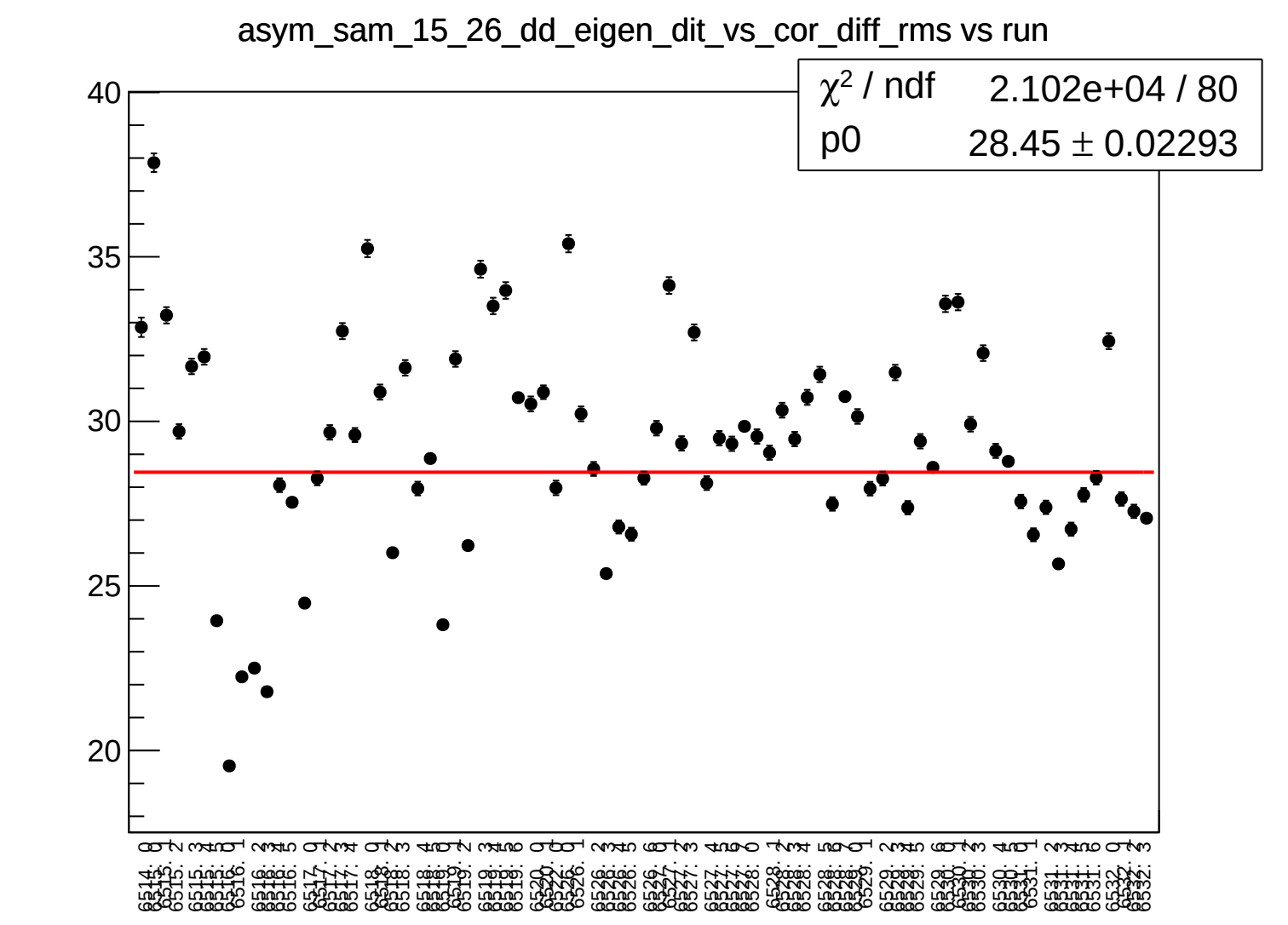

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.102e+04 / 80
p0 28.45 ± 0.02293
40
35
30
25
20

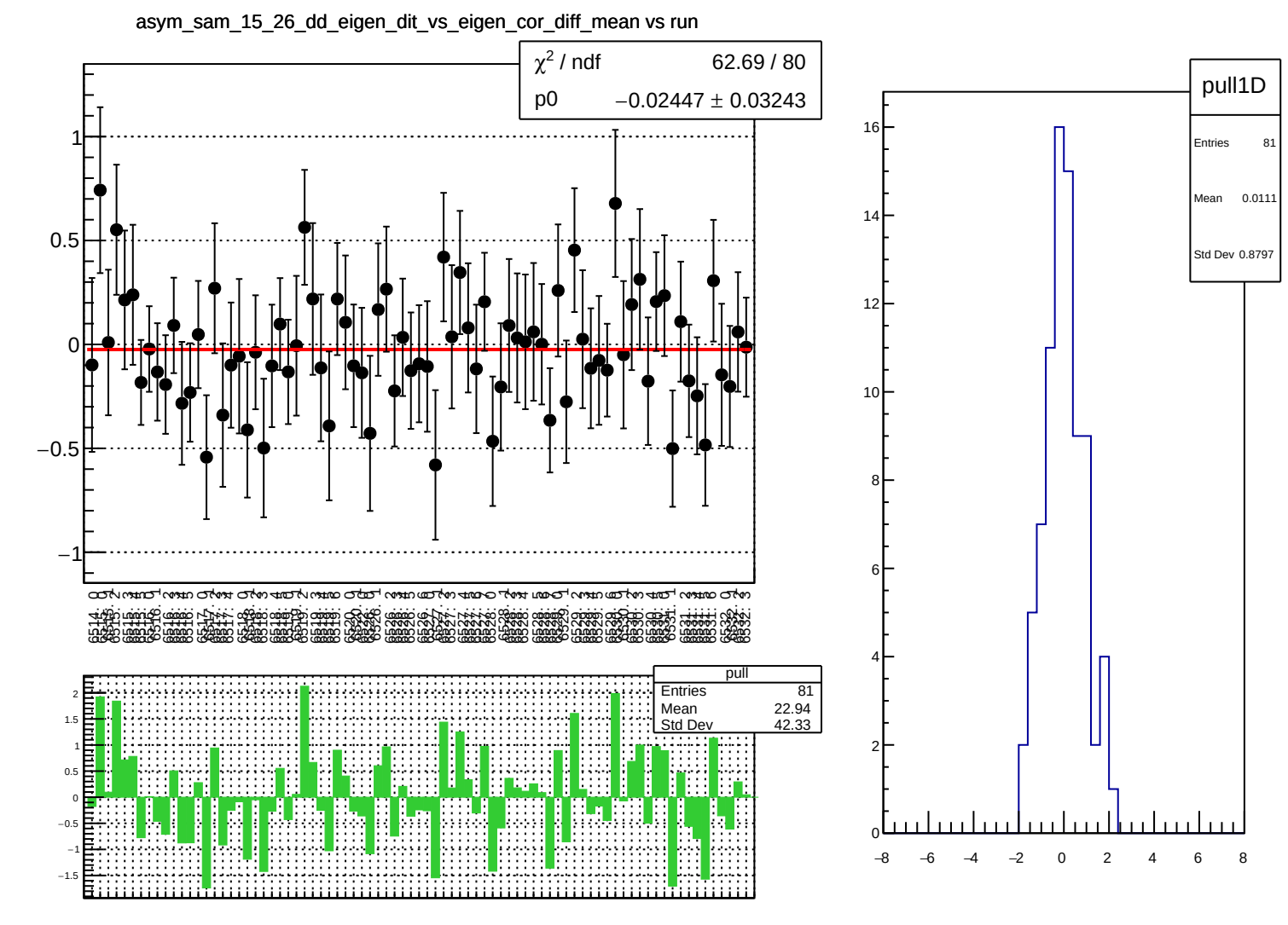

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 69.16 / 80
p0 1.491e−06 ± 3.075e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 81
Mean −233.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

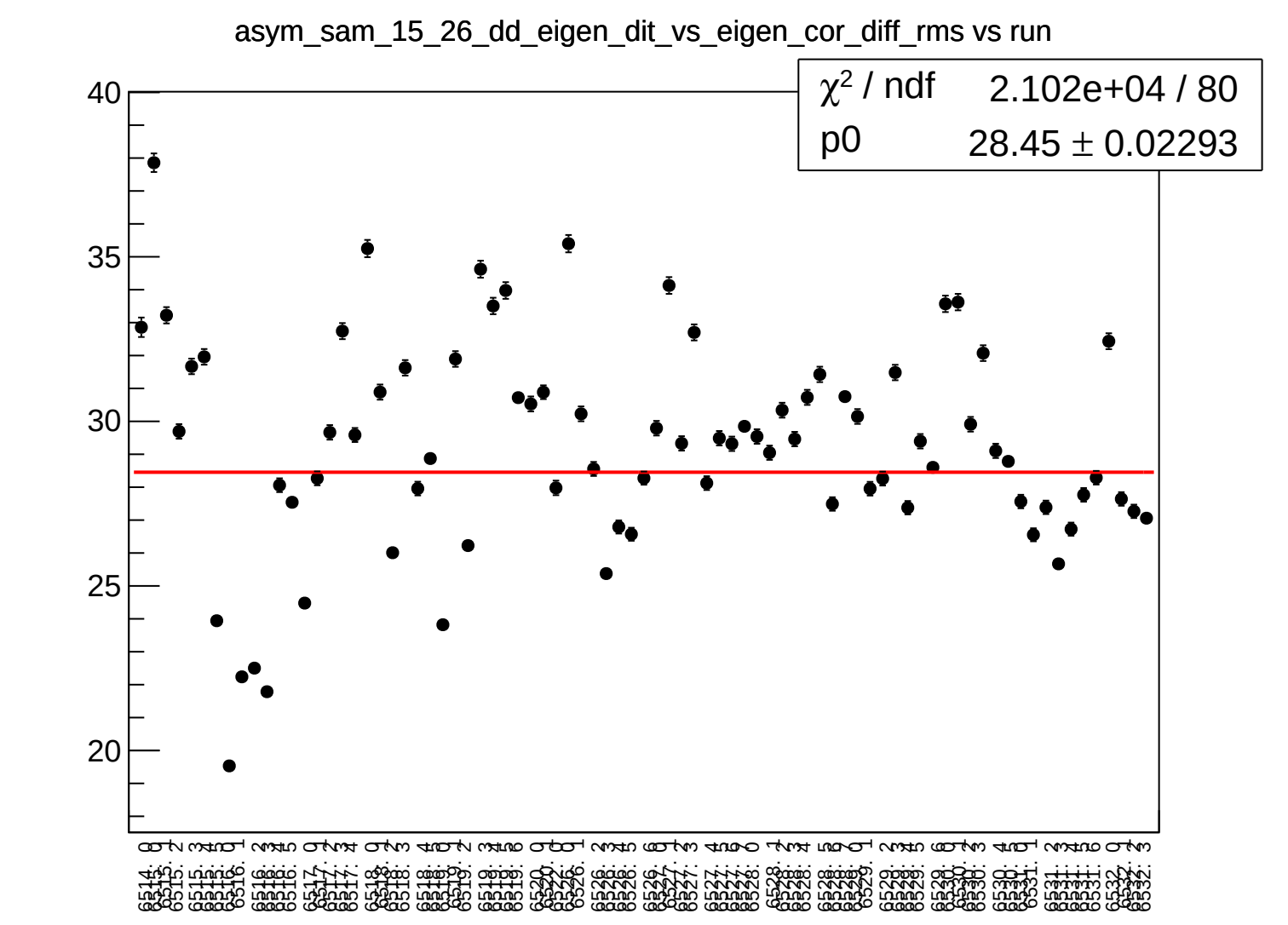

pull1D
Entries 81
Mean −0.01233
Std Dev 0.924
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

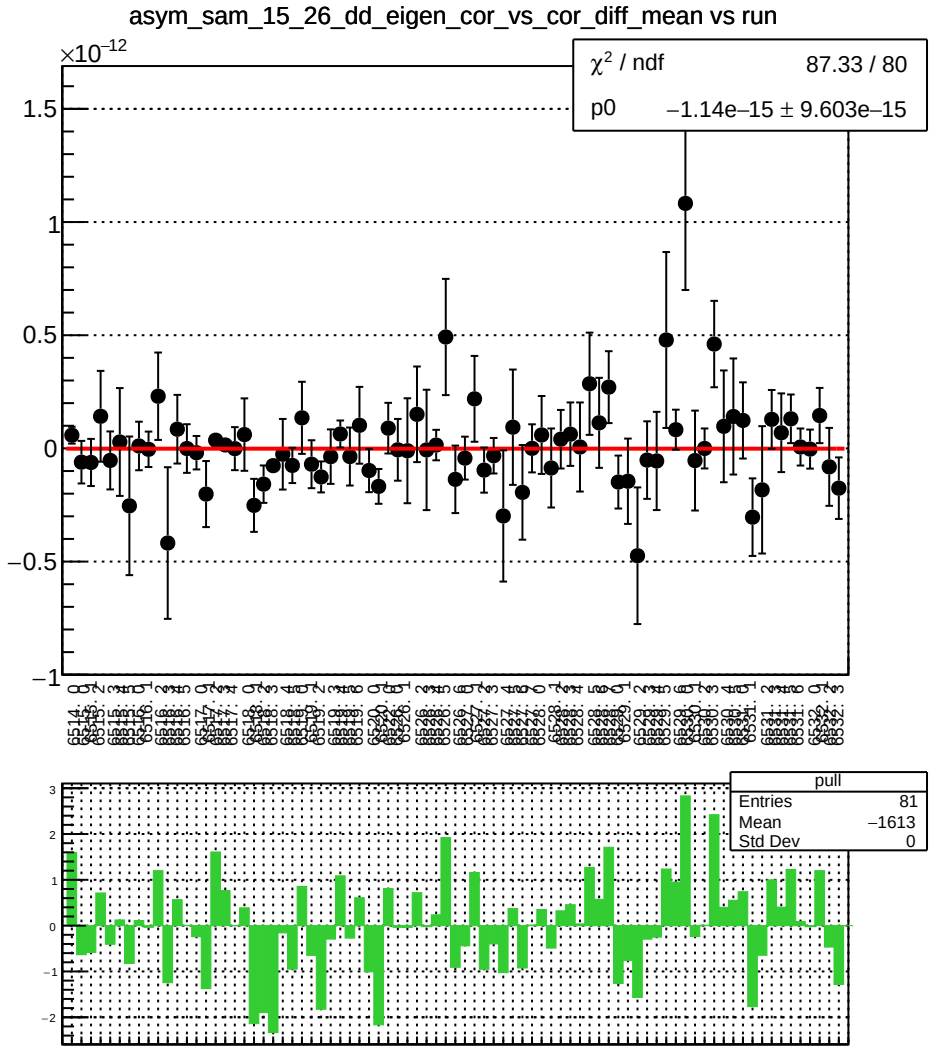

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.987e+04 / 80
p0 0.002699 ± 2.174e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002

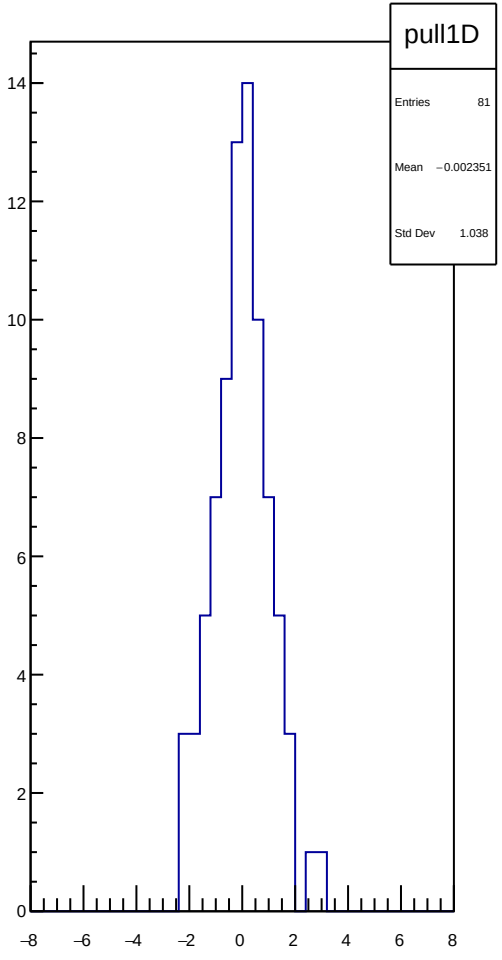

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 62.69 / 80
p0 −0.02447 ± 0.03243
pull
Entries 81
Mean 22.94
Std Dev 42.33
pull1D
Entries 81
Mean 0.0111
Std Dev 0.8797

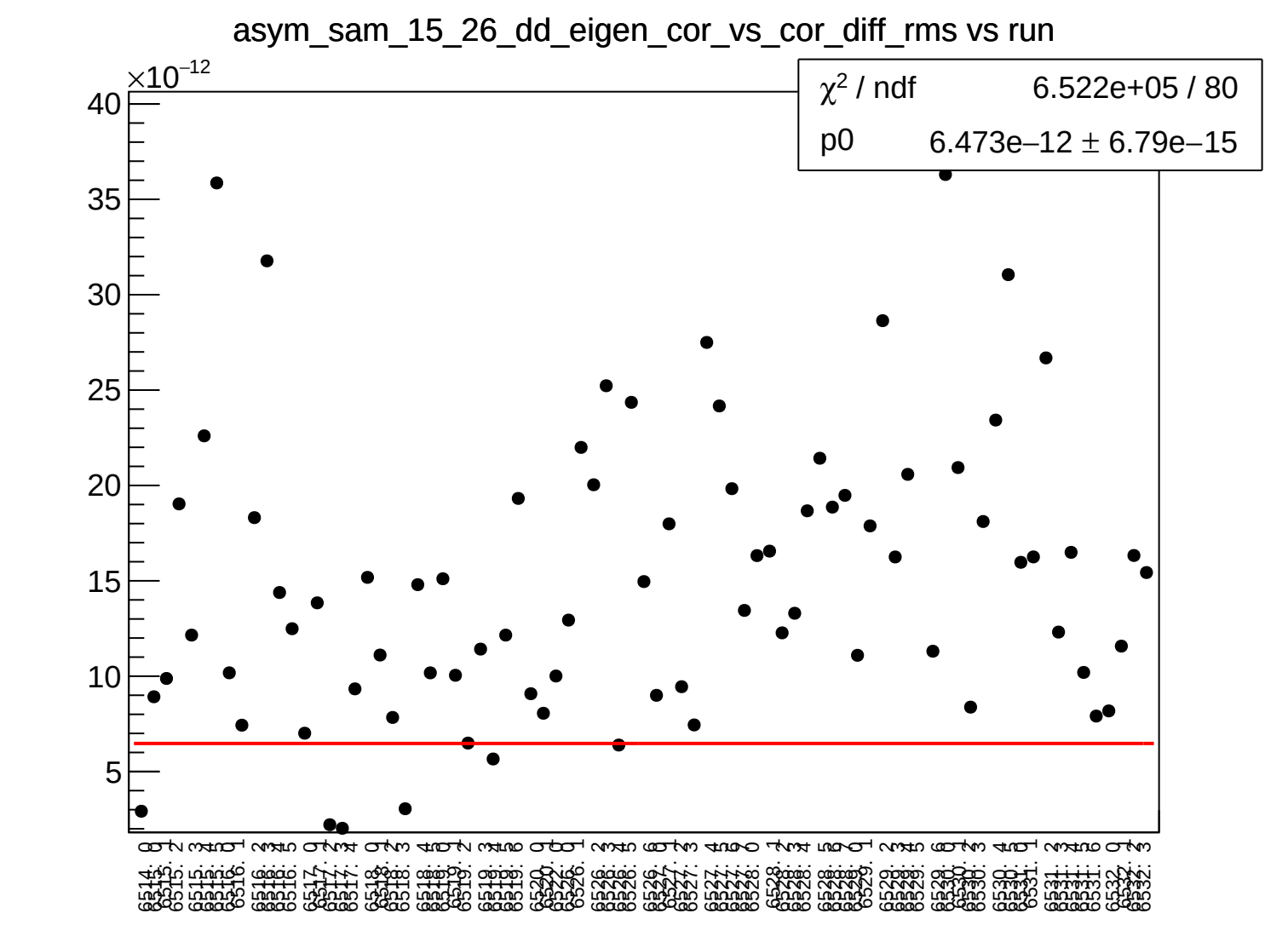

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.102e+04 / 80
p0 28.45 ± 0.02293
40
35
30
25
20

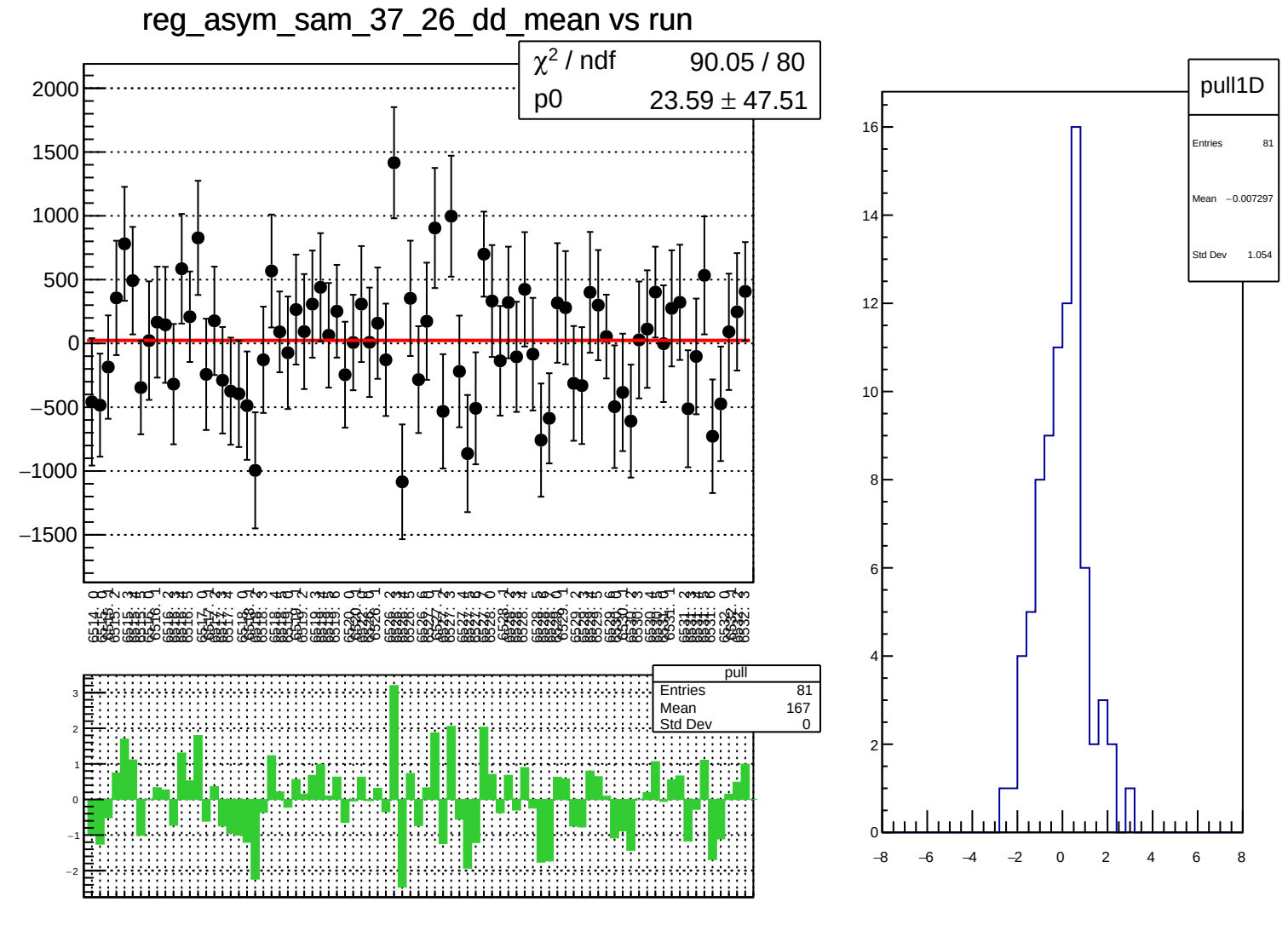

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 62.69 / 80
p0 −0.02447 ± 0.03243
pull
Entries 81
Mean 22.94
Std Dev 42.33
pull1D
Entries 81
Mean 0.0111
Std Dev 0.8797

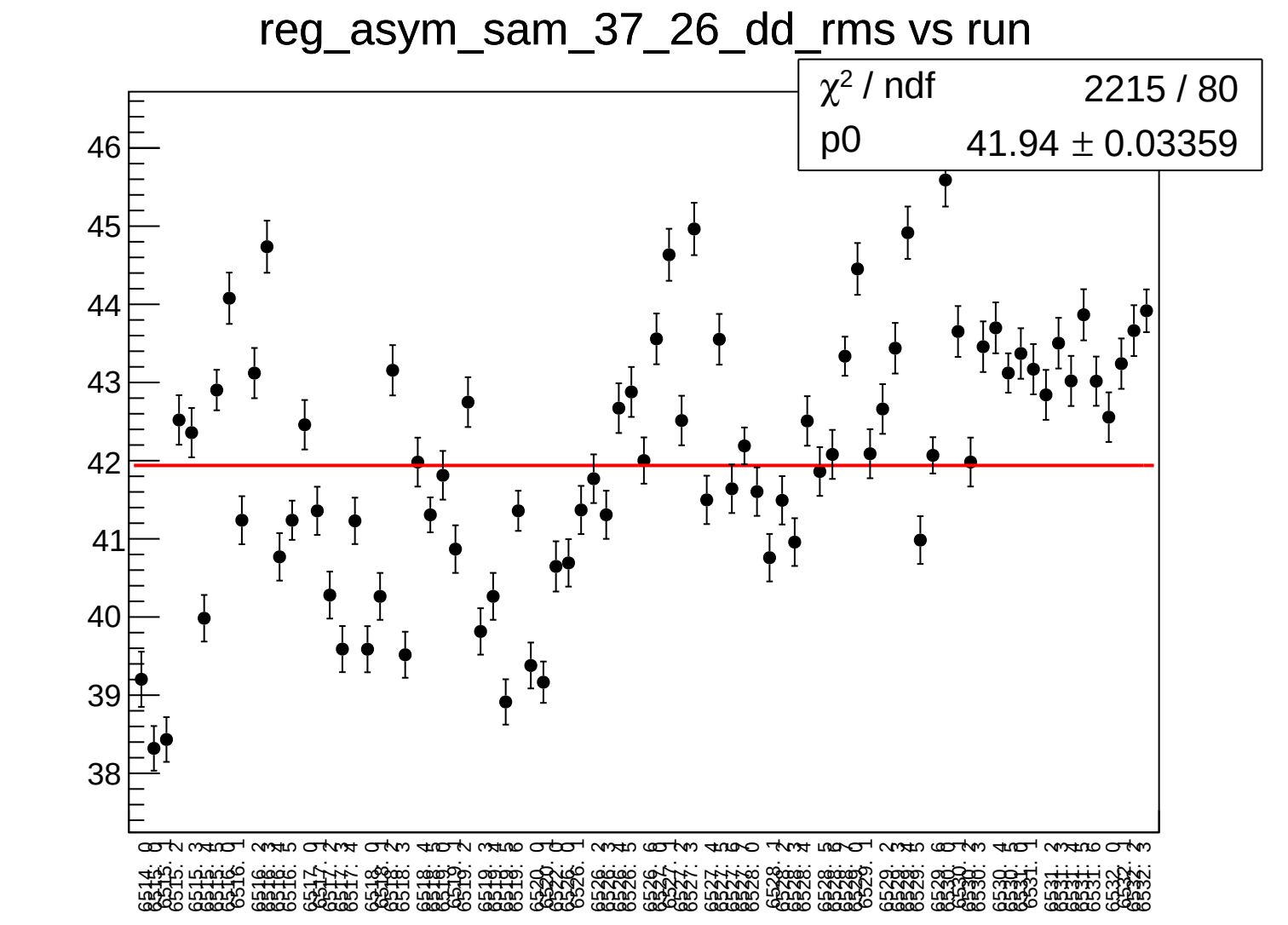

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.102e+04 / 80
p0 28.45 ± 0.02293
40
35
30
25
20

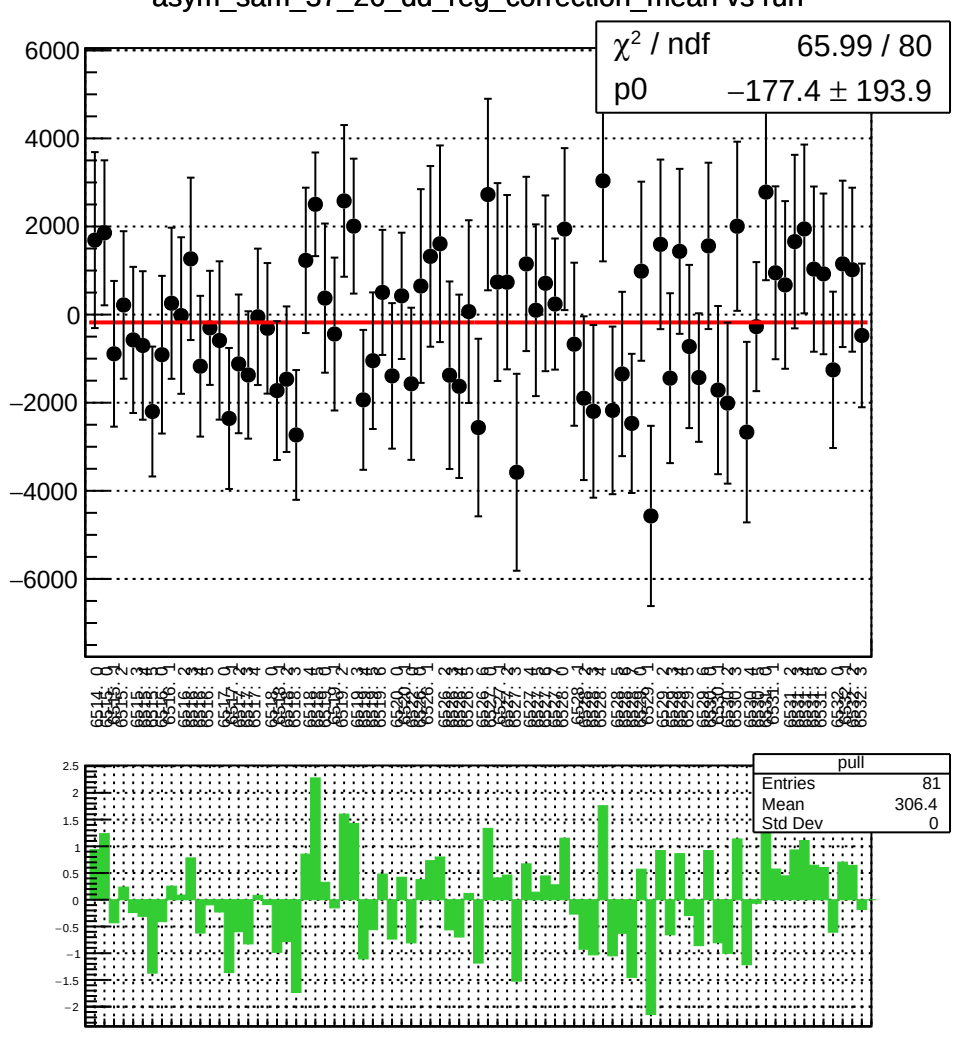

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.33 / 80
p0 −1.14e−15 ± 9.603e−15
pull
Entries 81
Mean −1613
Std Dev 0

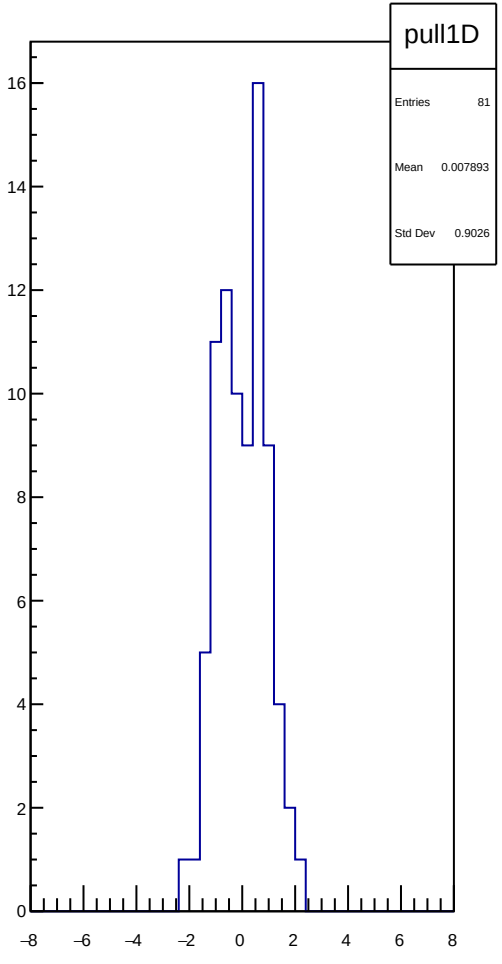

pull1D
Entries 81
Mean −0.002351
Std Dev 1.038

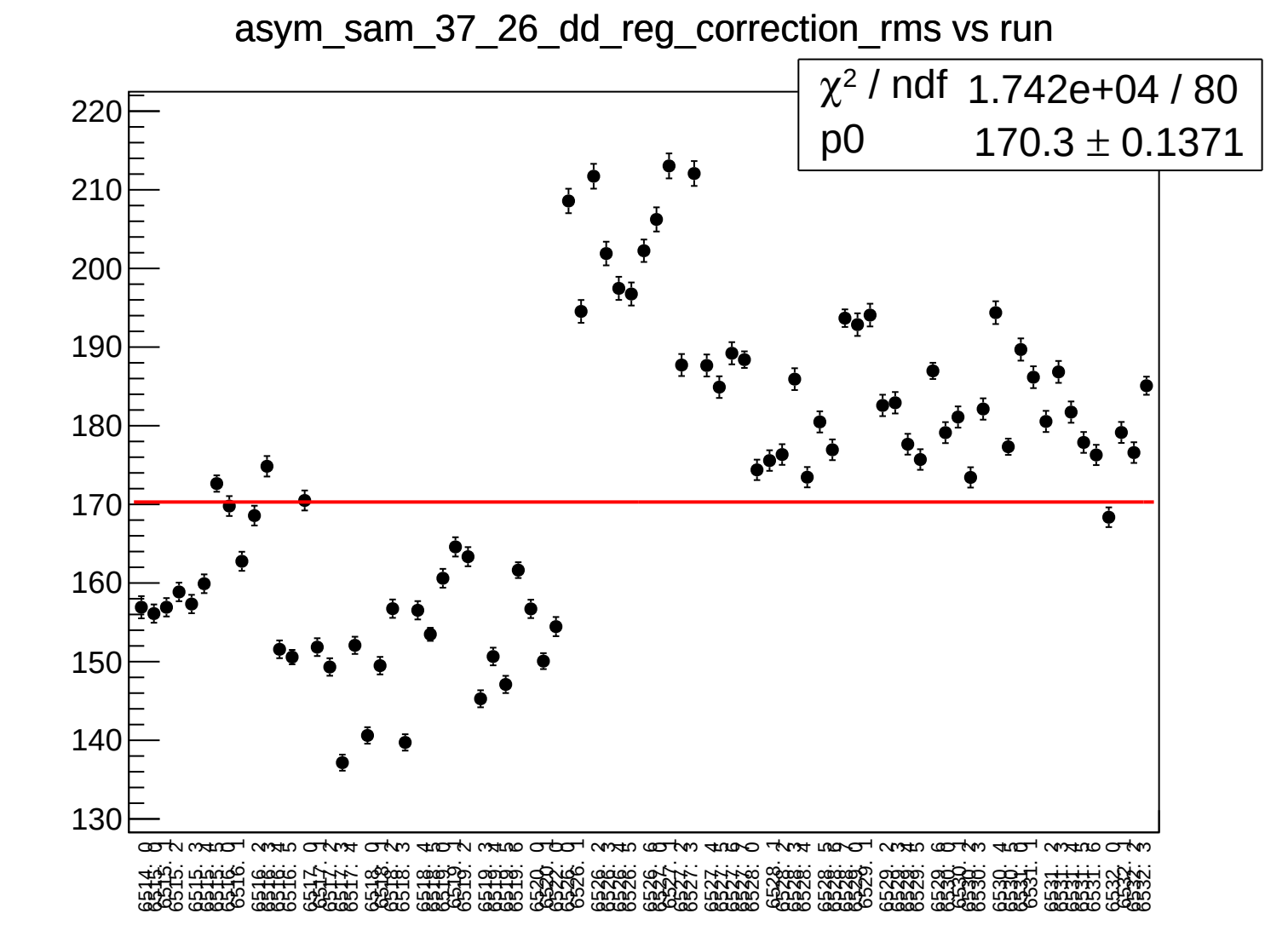

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.522e+05 / 80
p0 6.473e−12 ± 6.79e−15
40
35
30
25
20
15
10
5

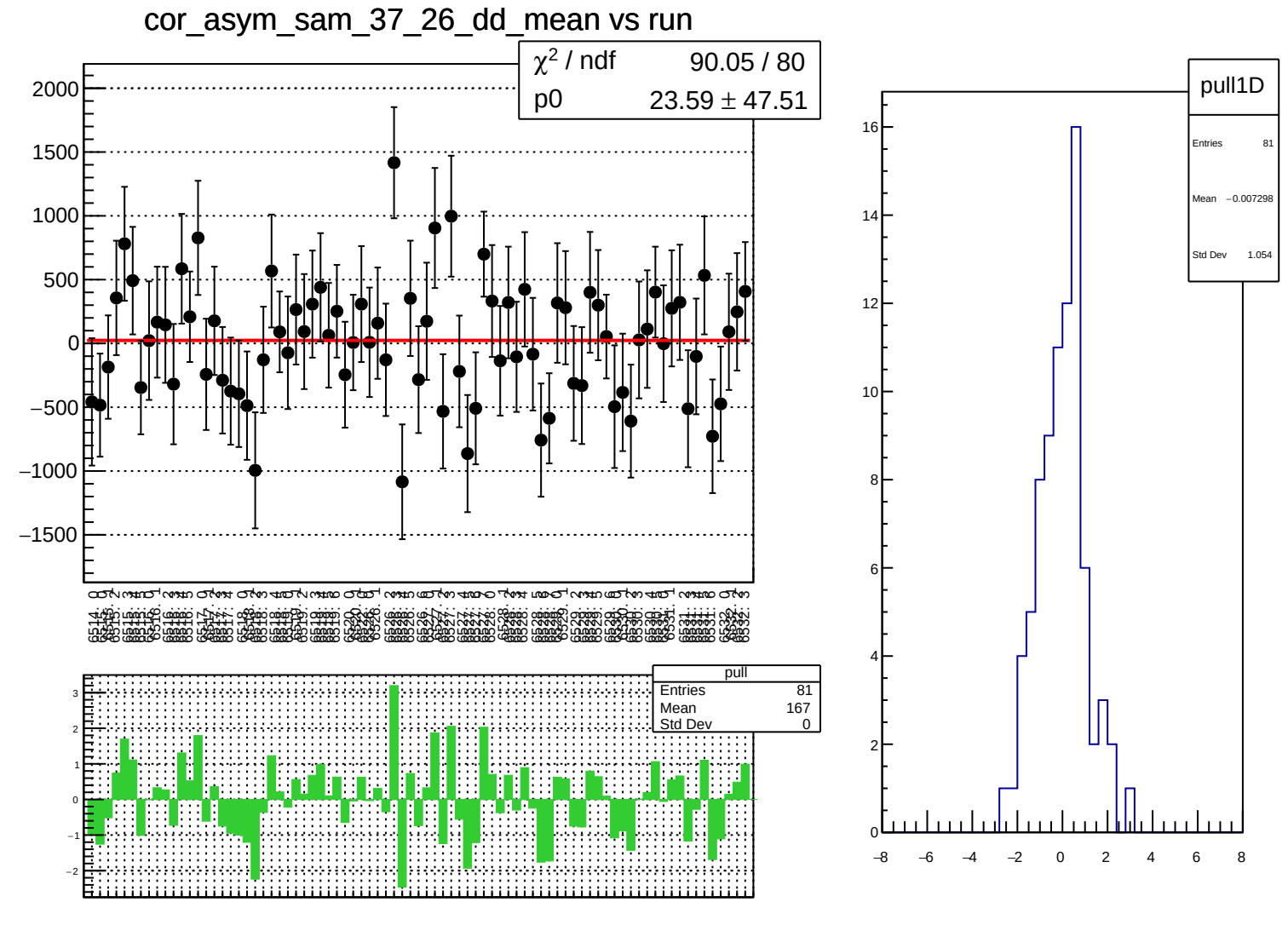

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 90.05 / 80
p0 23.59 ± 47.51
pull
Entries 81
Mean 167
Std Dev 0
pull1D
Entries 81
Mean −0.007297
Std Dev 1.054

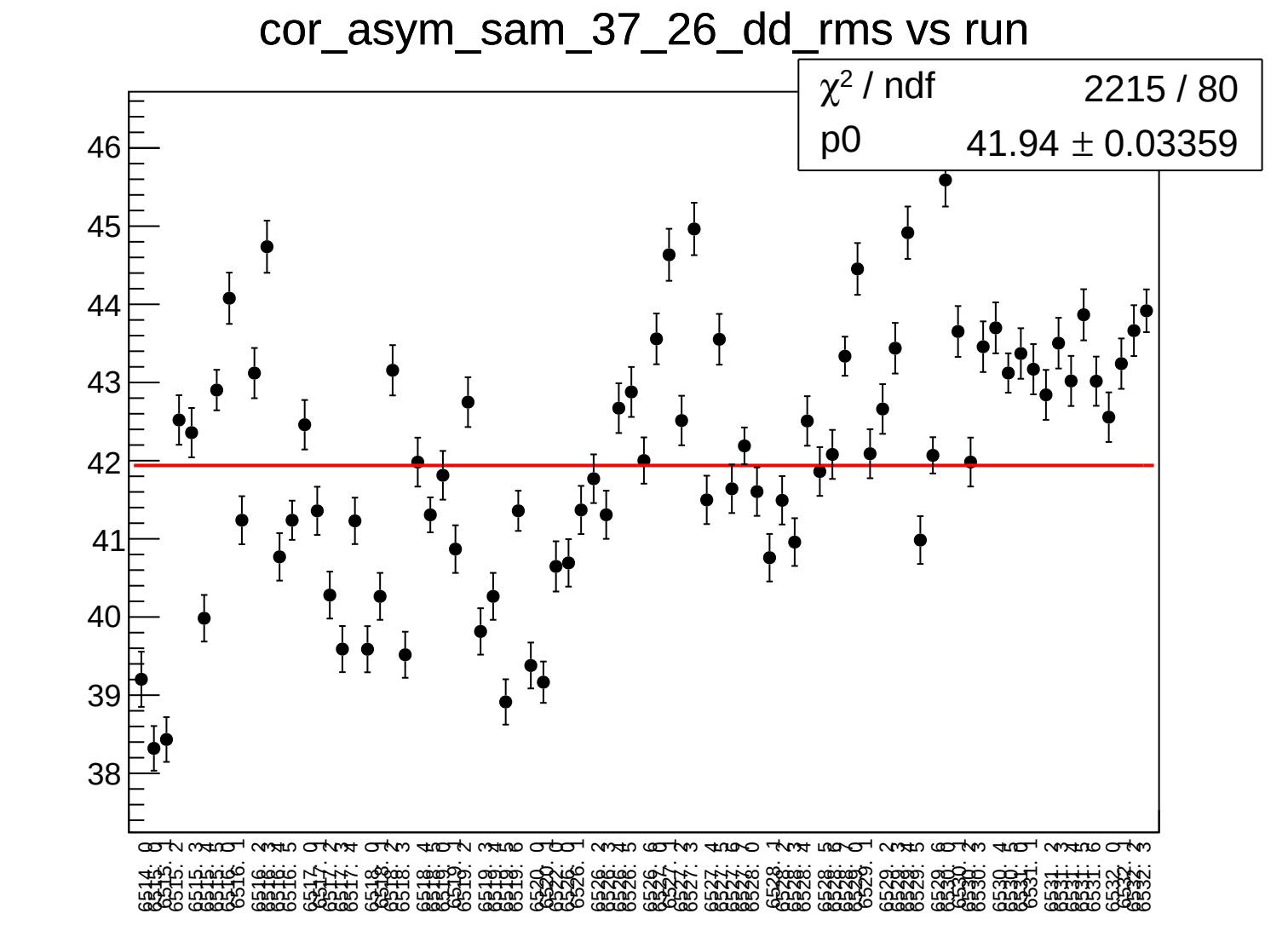

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 2215 / 80
p0 41.94 ± 0.03359
46
45
44
43
42
41
40
39
38

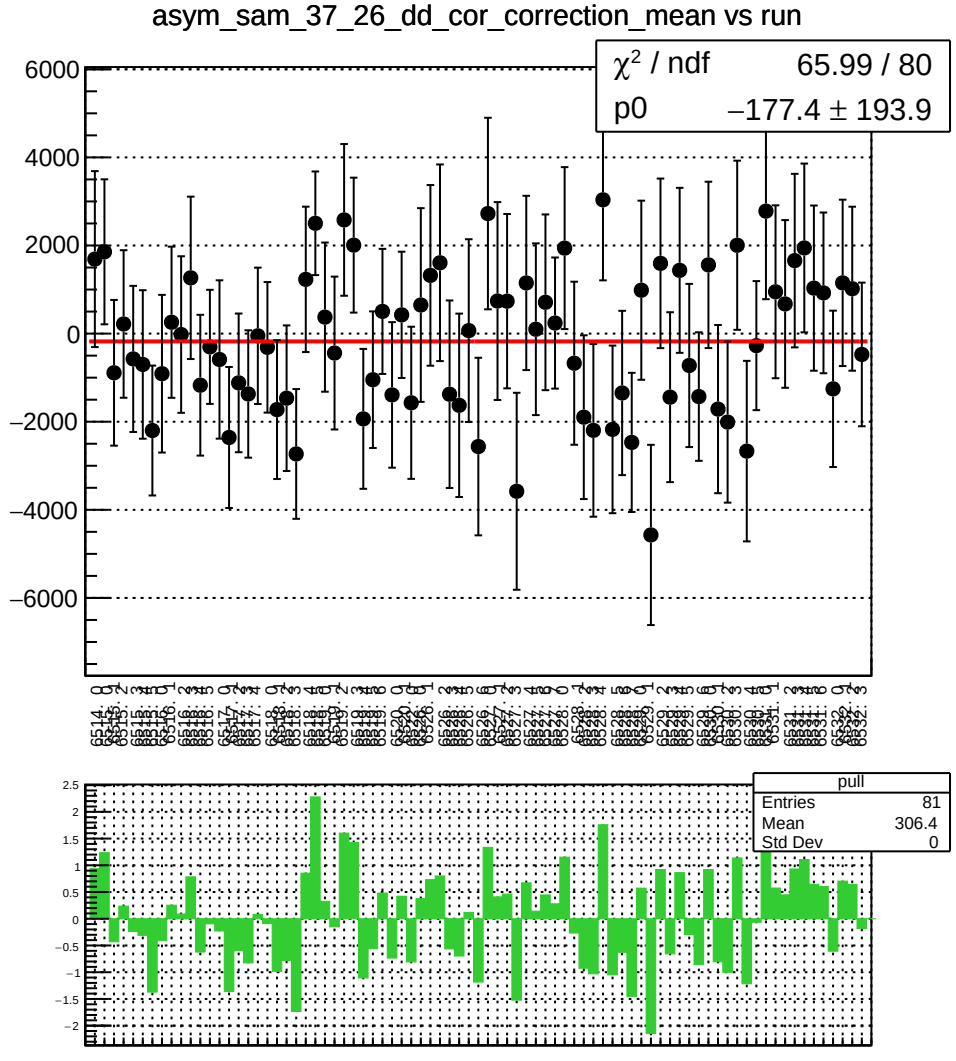

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 65.99 / 80
p0 −177.4 ± 193.9
pull
Entries 81
Mean 306.4
Std Dev 0

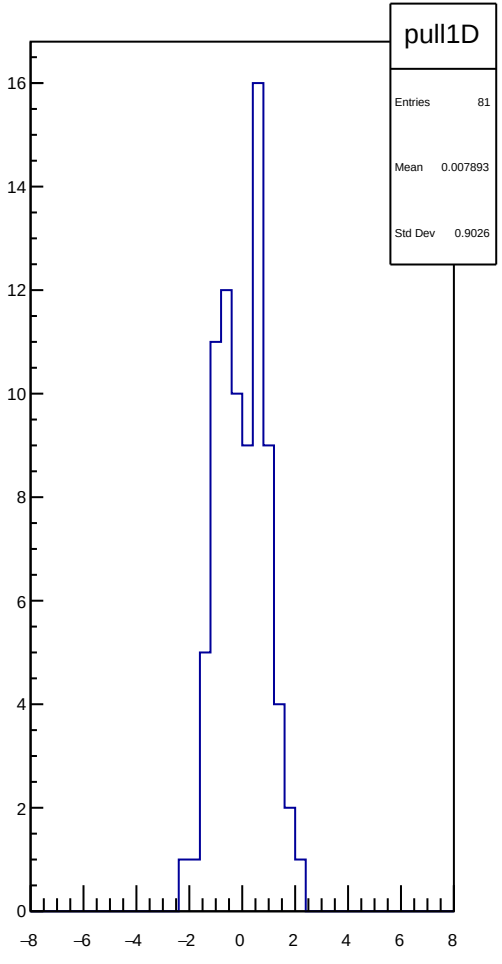

pull1D
Entries 81
Mean 0.007893
Std Dev 0.9026

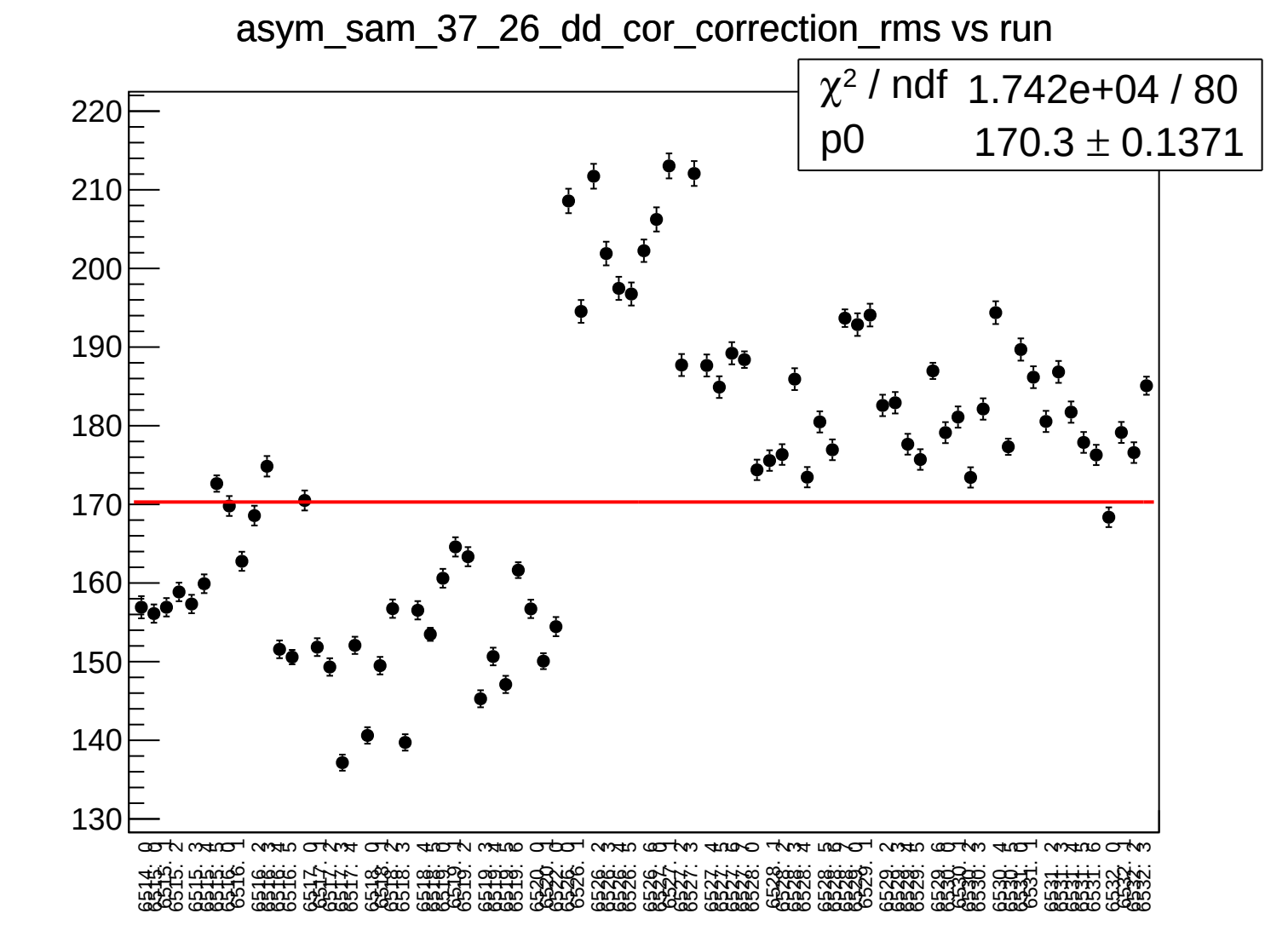

asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 1.742e+04 / 80
p0 170.3 ± 0.1371
220
210
200
190
180
170
160
150
140
130

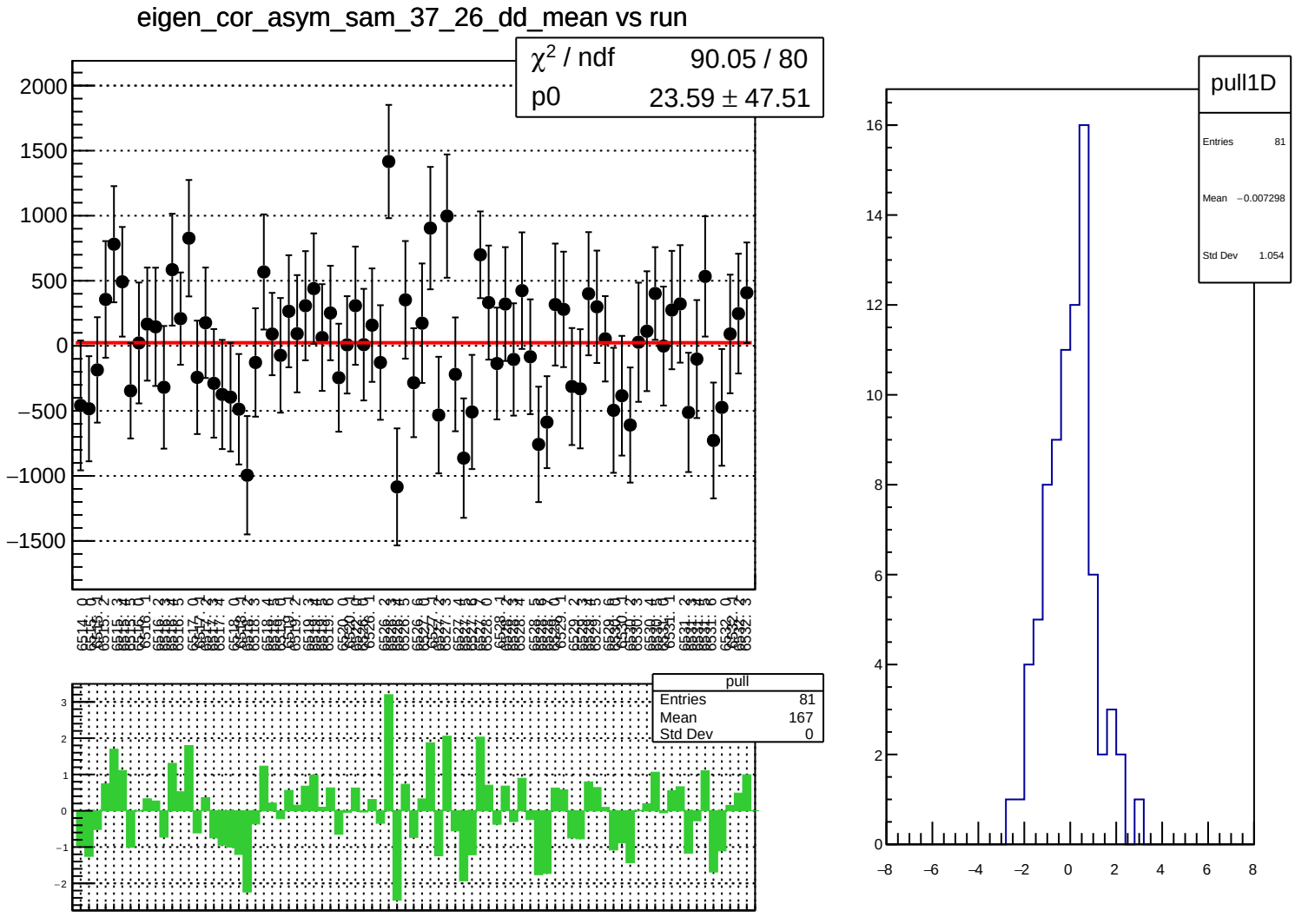

cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 90.05 / 80
p0 23.59 ± 47.51
pull
Entries 81
Mean 167
Std Dev 0
pull1D
Entries 81
Mean −0.007298
Std Dev 1.054

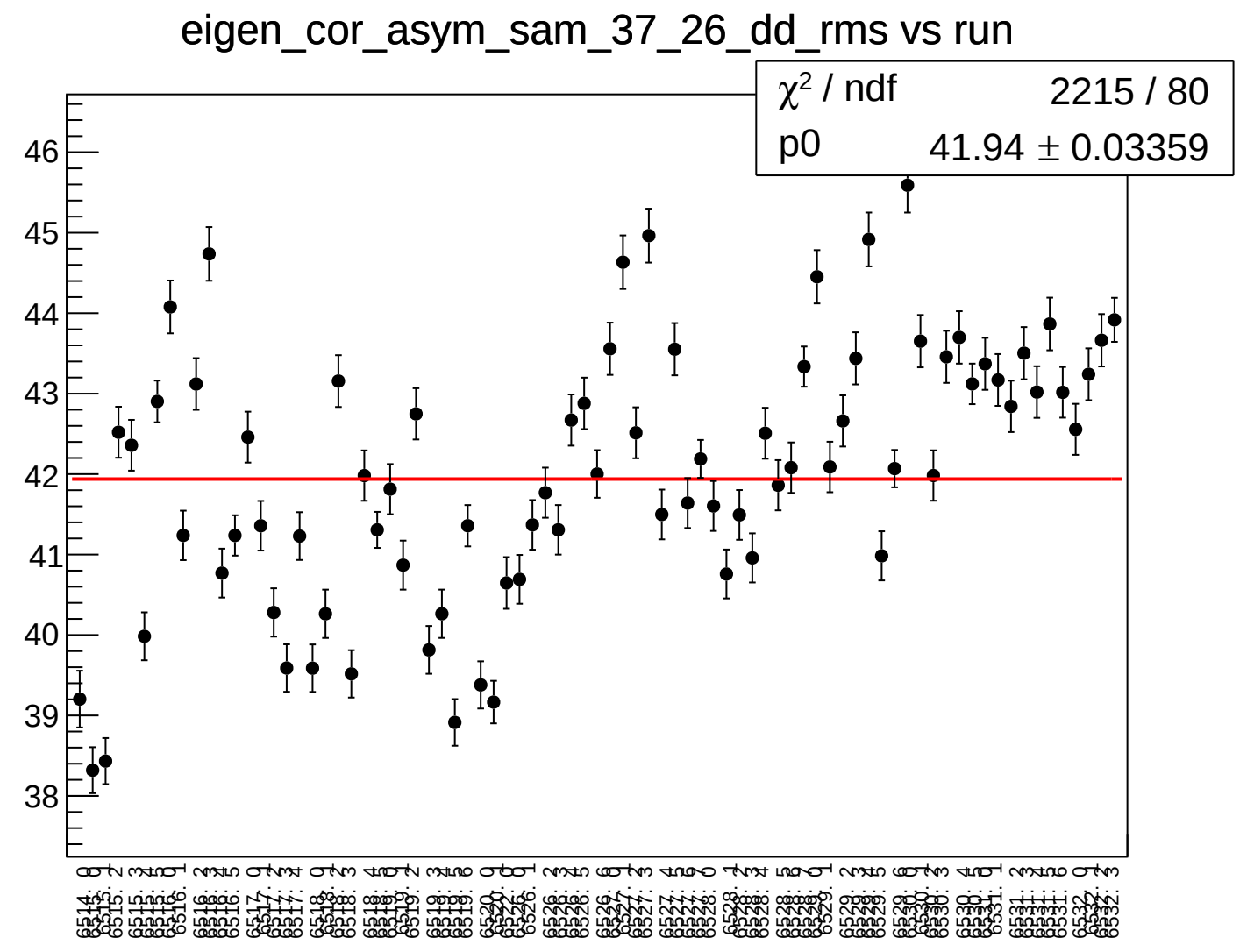

cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 2215 / 80
p0 41.94 ± 0.03359
46
45
44
43
42
41
40
39
38

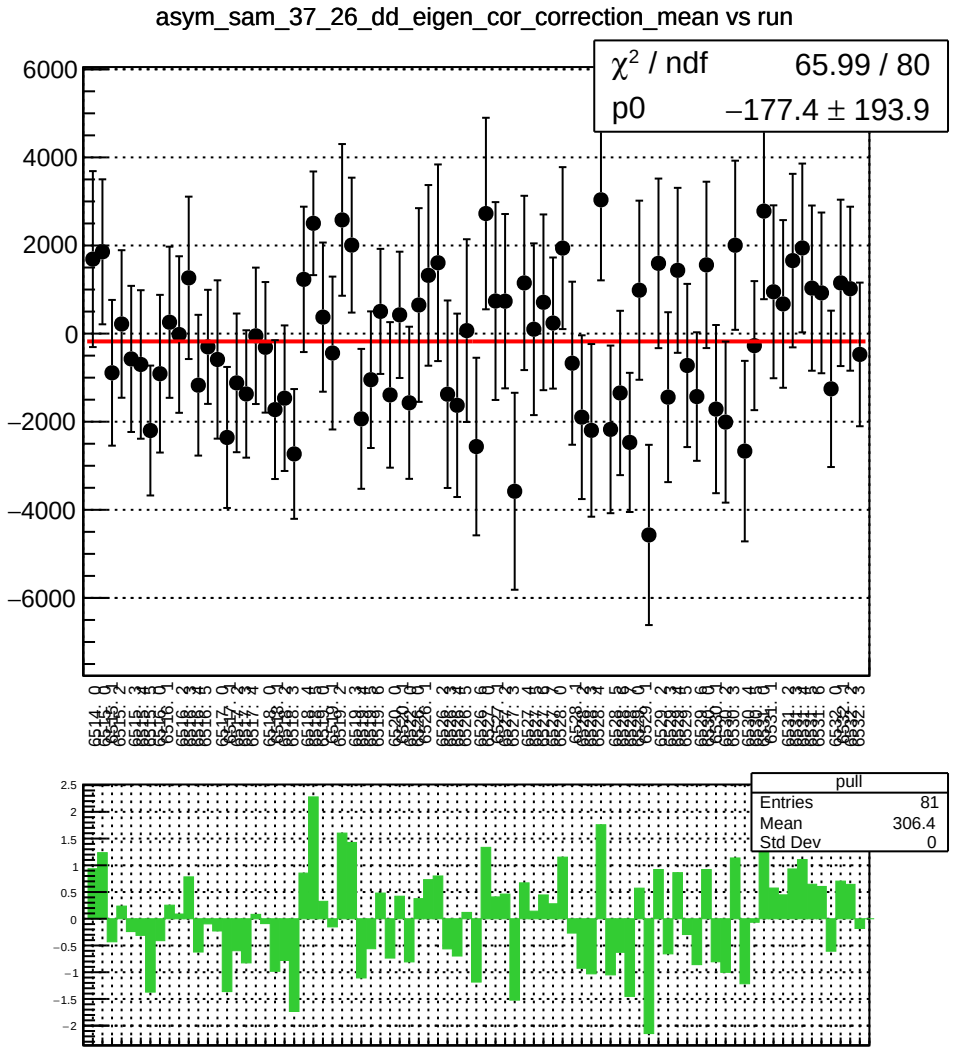

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 65.99 / 80
p0 −177.4 ± 193.9
pull
Entries 81
Mean 306.4
Std Dev 0

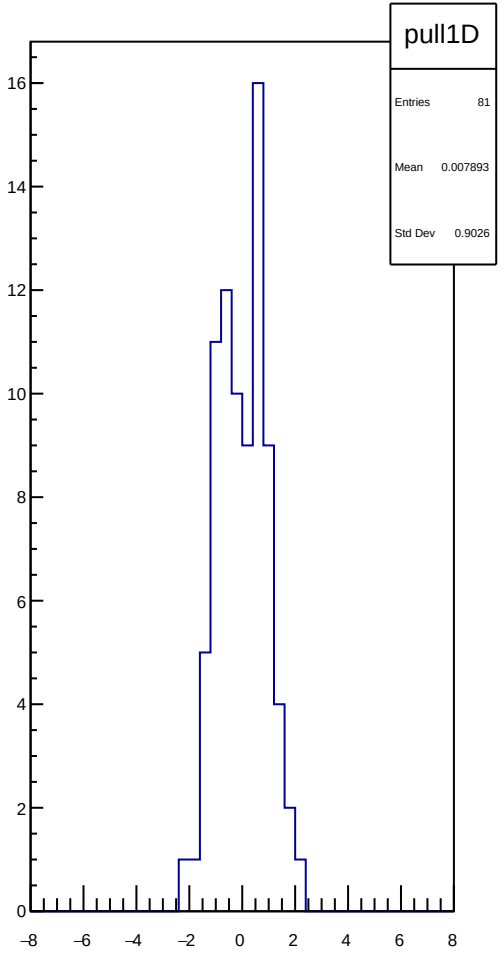

pull1D
Entries 81
Mean 0.007893
Std Dev 0.9026

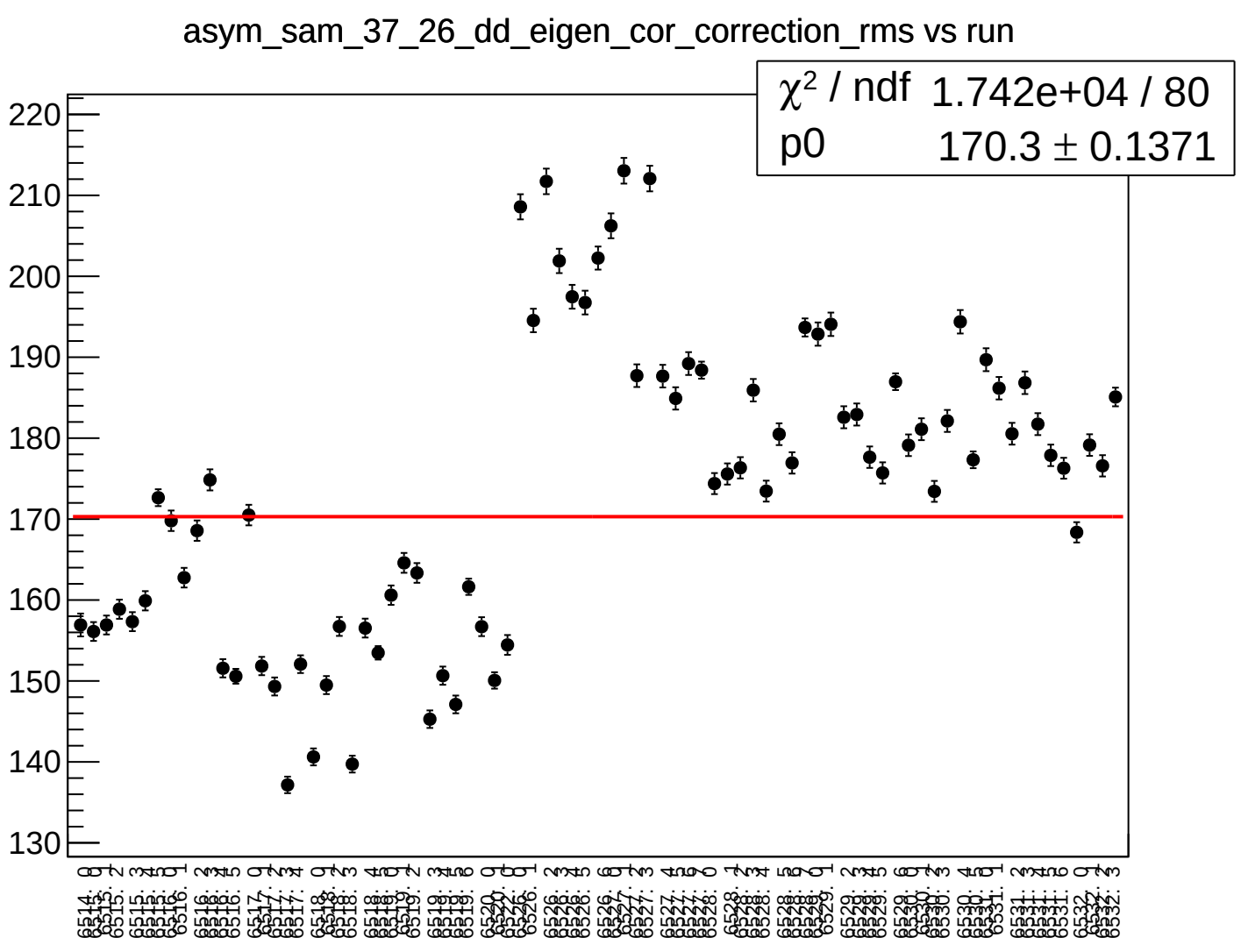

asym_sam_37_26_dd_cor_correction_rms vs run
χ² / ndf 1.742e+04 / 80
p0 170.3 ± 0.1371
220
210
200
190
180
170
160
150
140
130

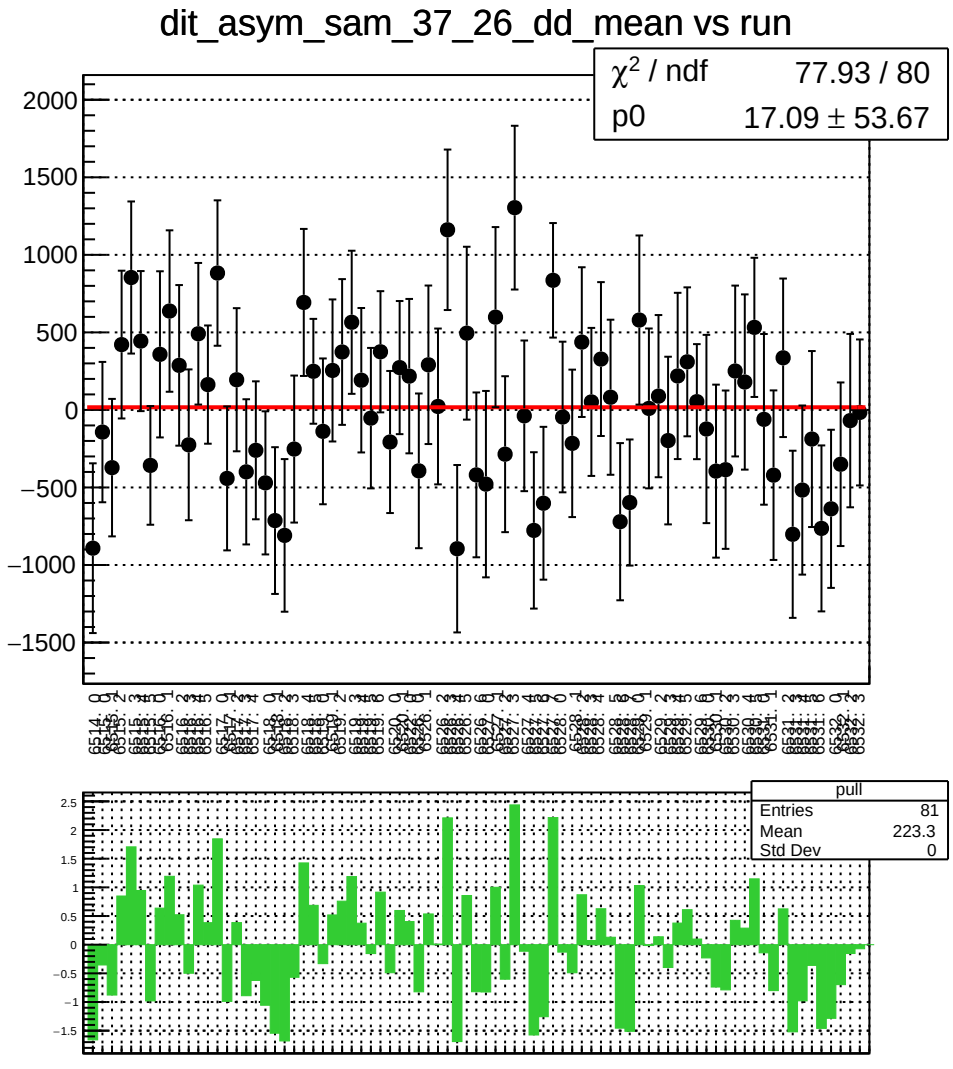

eigen_cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 90.05 / 80
p0 23.59 ± 47.51
pull
Entries 81
Mean 167
Std Dev 0
pull1D
Entries 81
Mean −0.007298
Std Dev 1.054

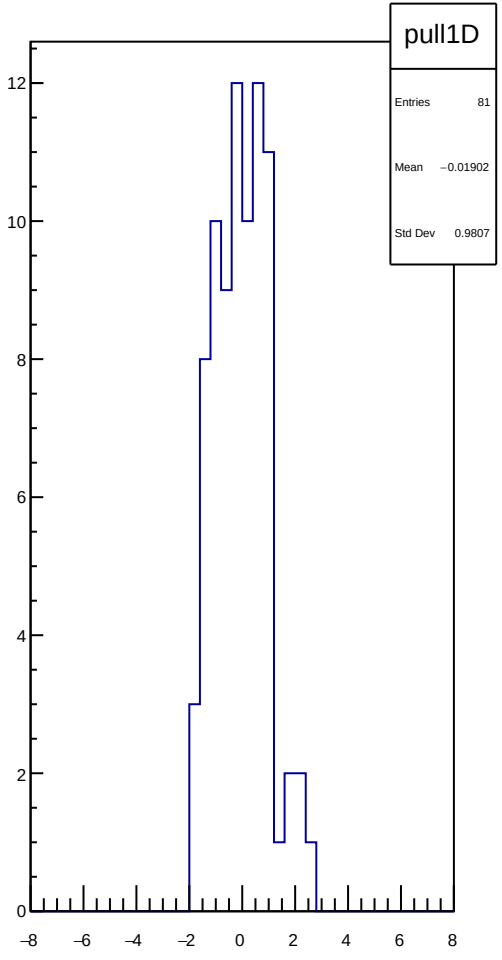

eigen_cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 2215 / 80
p0 41.94 ± 0.03359
46
45
44
43
42
41
40
39
38

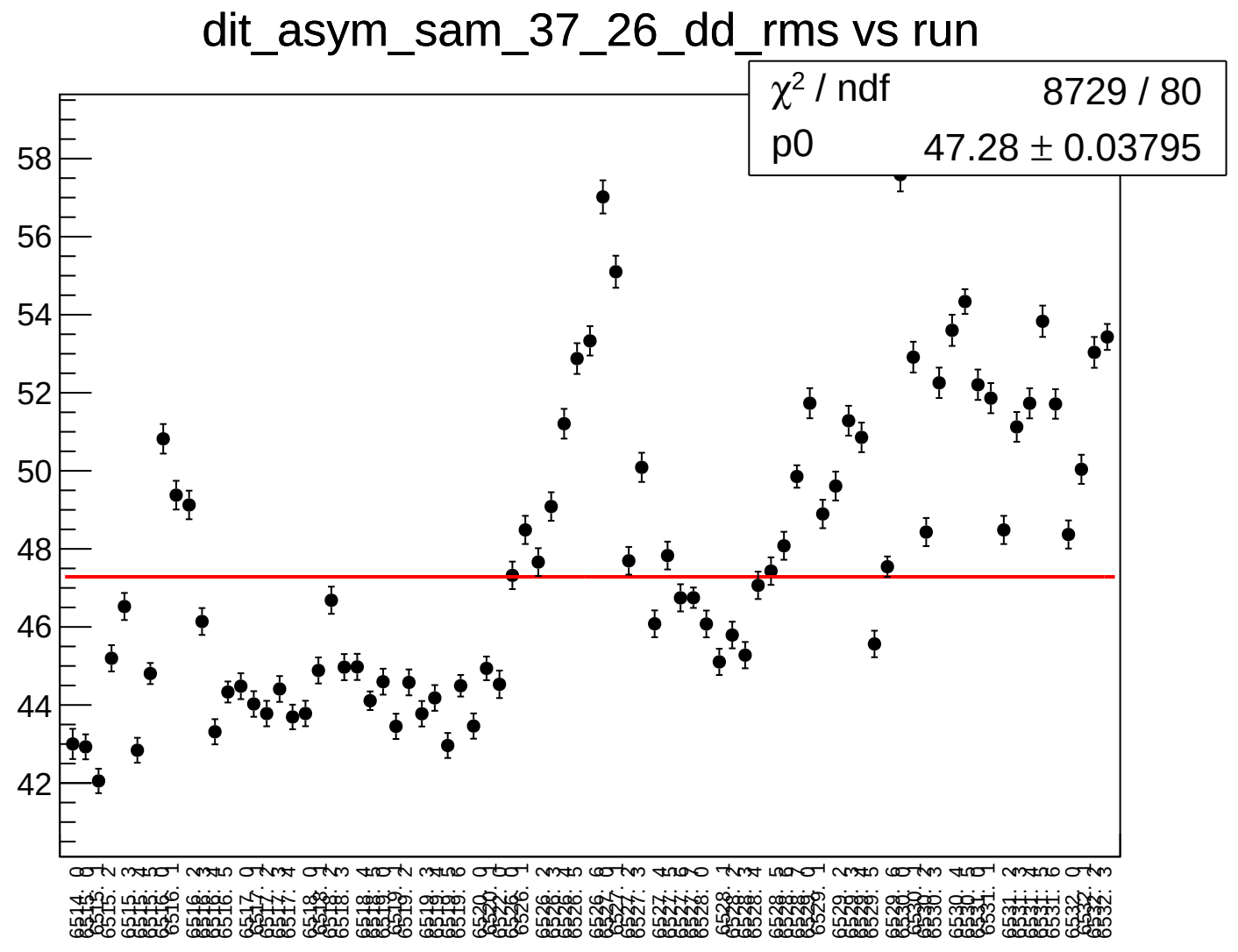

asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 65.99 / 80
p0 −177.4 ± 193.9
pull
Entries 81
Mean 306.4
Std Dev 0

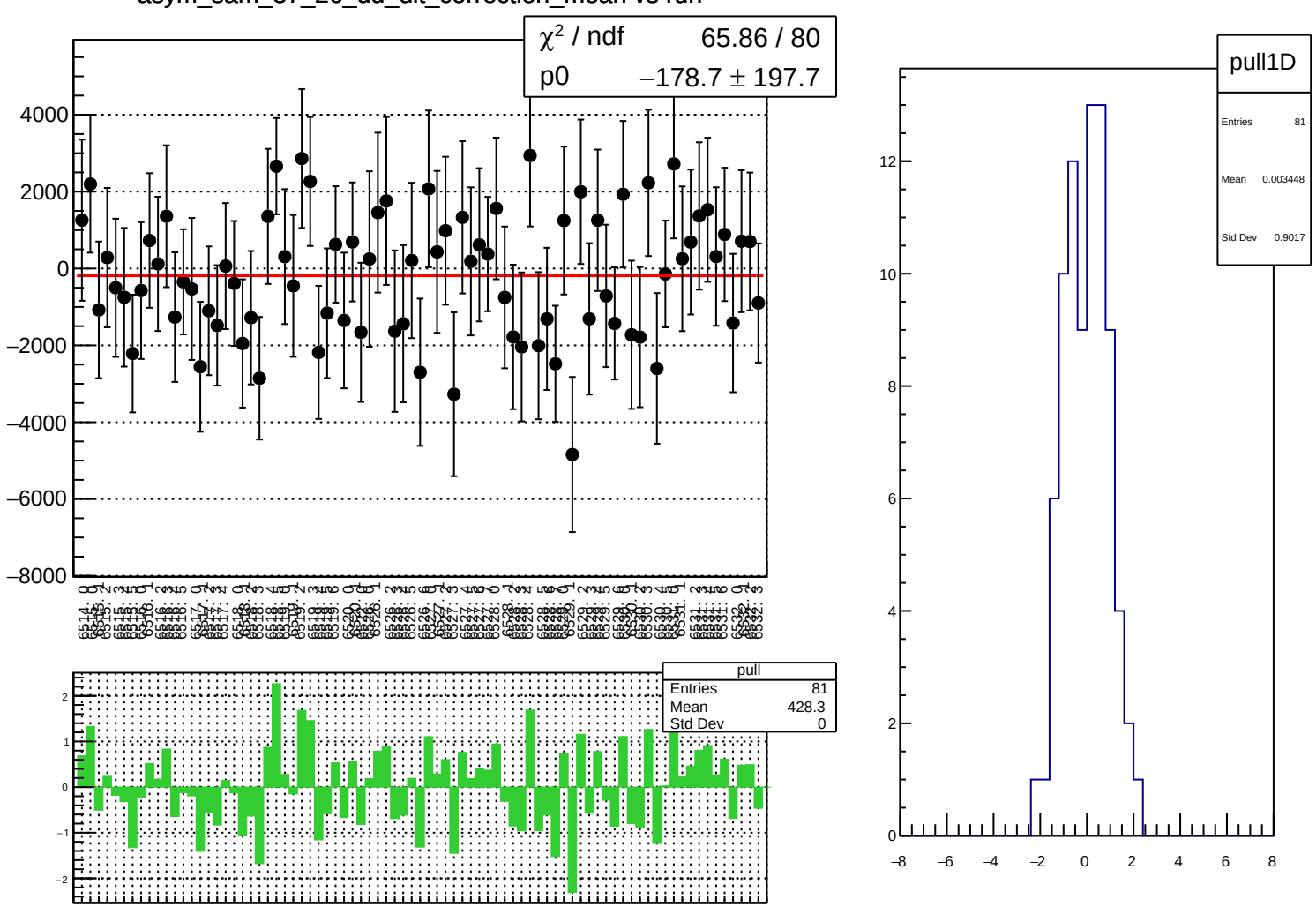

pull1D
Entries 81
Mean 0.007893
Std Dev 0.9026

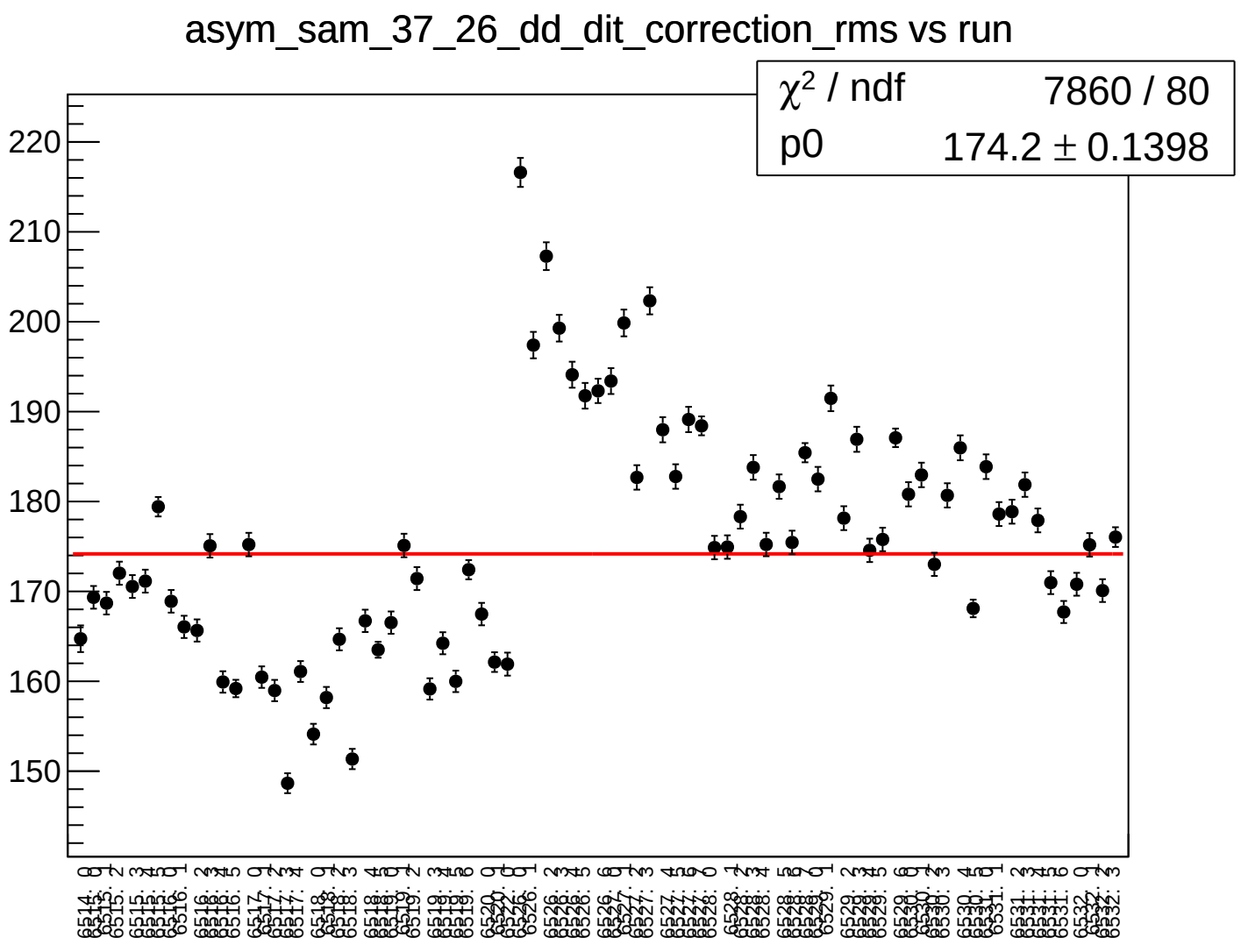

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.742e+04 / 80
p0 170.3 ± 0.1371
220
210
200
190
180
170
160
150
140
130

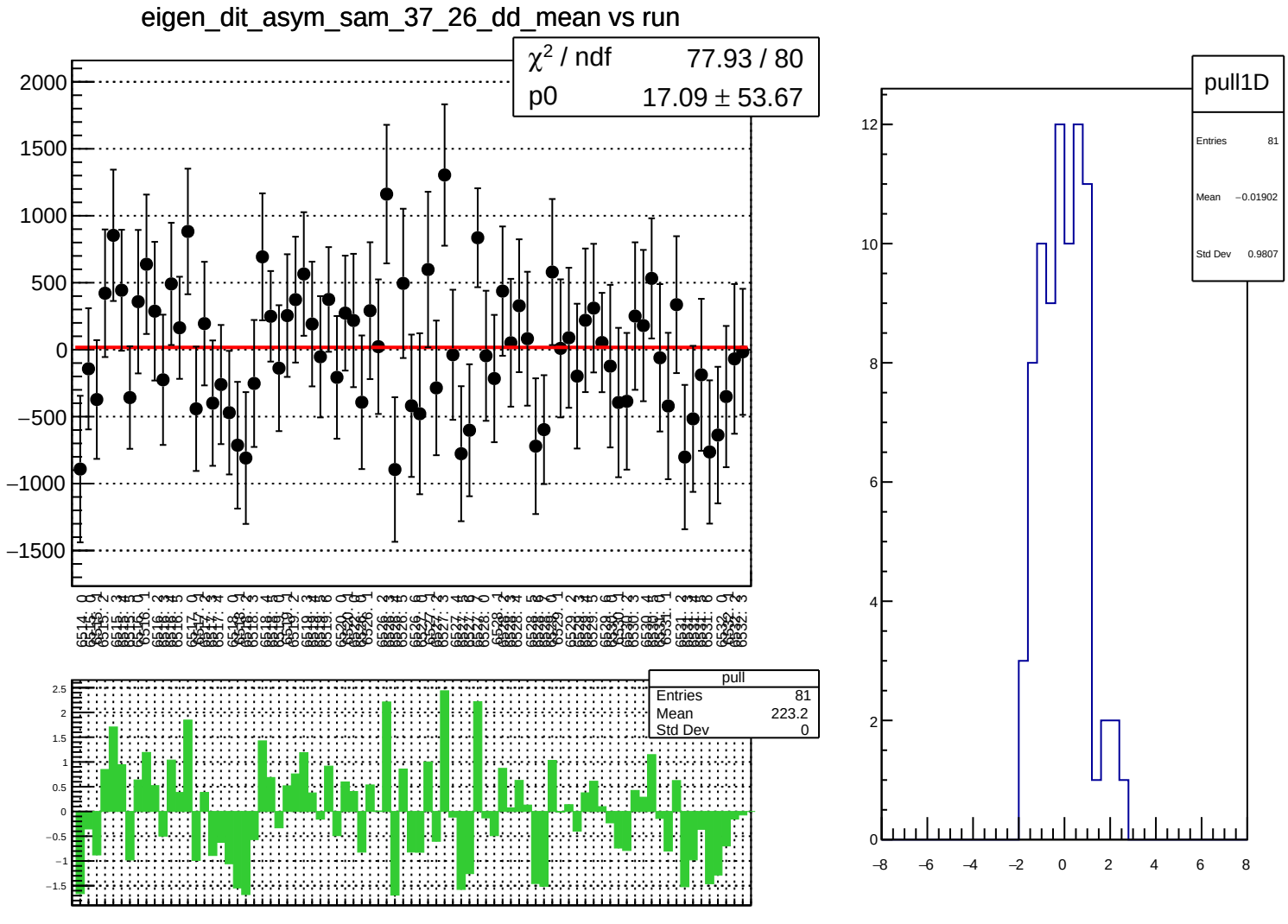

dit_asym_sam_37_26_dd_mean vs run
χ^2 / ndf 77.93 / 80
p0 17.09 ± 53.67
pull
Entries 81
Mean 223.3
Std Dev 0

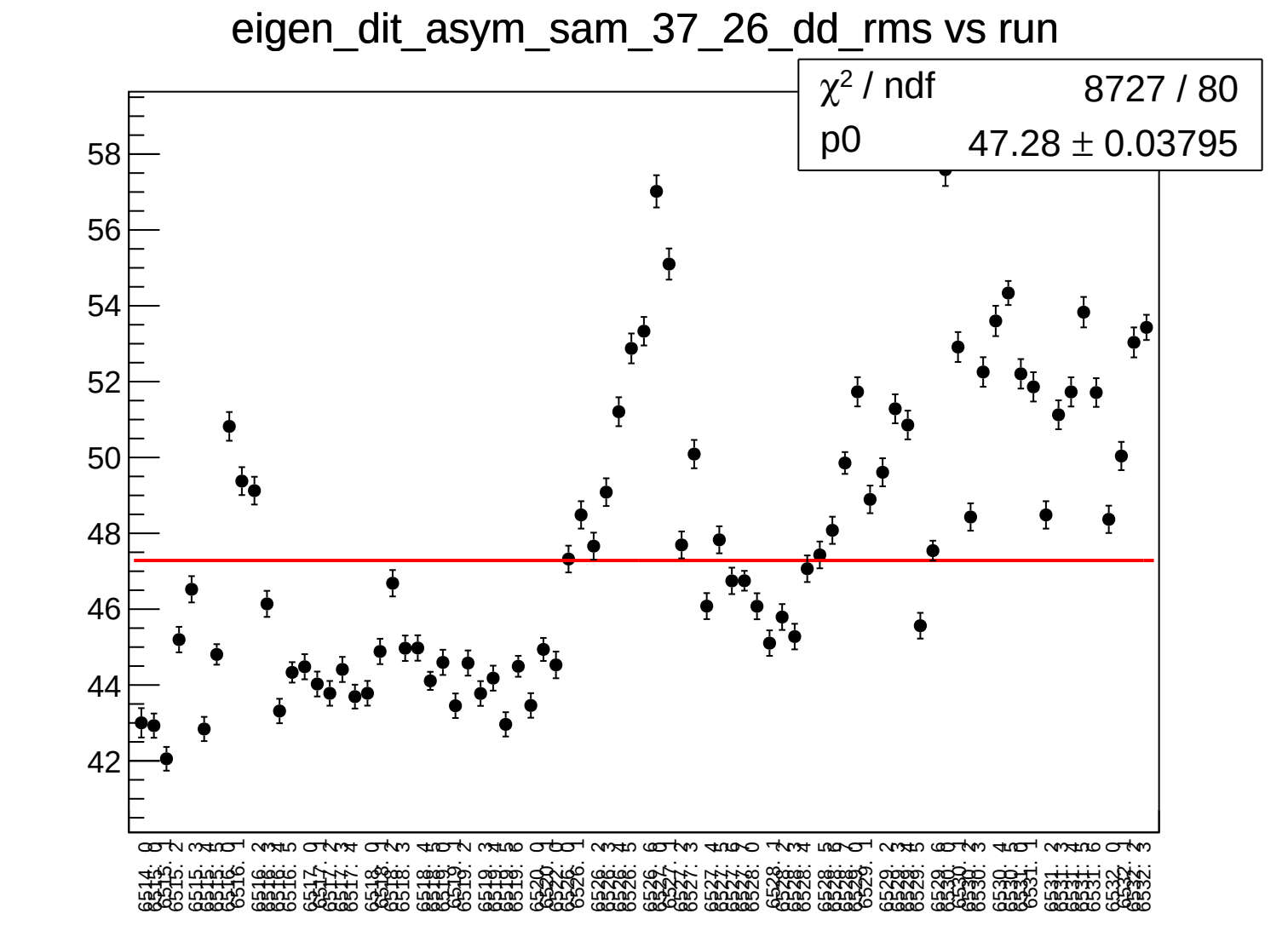

pull1D
Entries 81
Mean −0.01902
Std Dev 0.9807

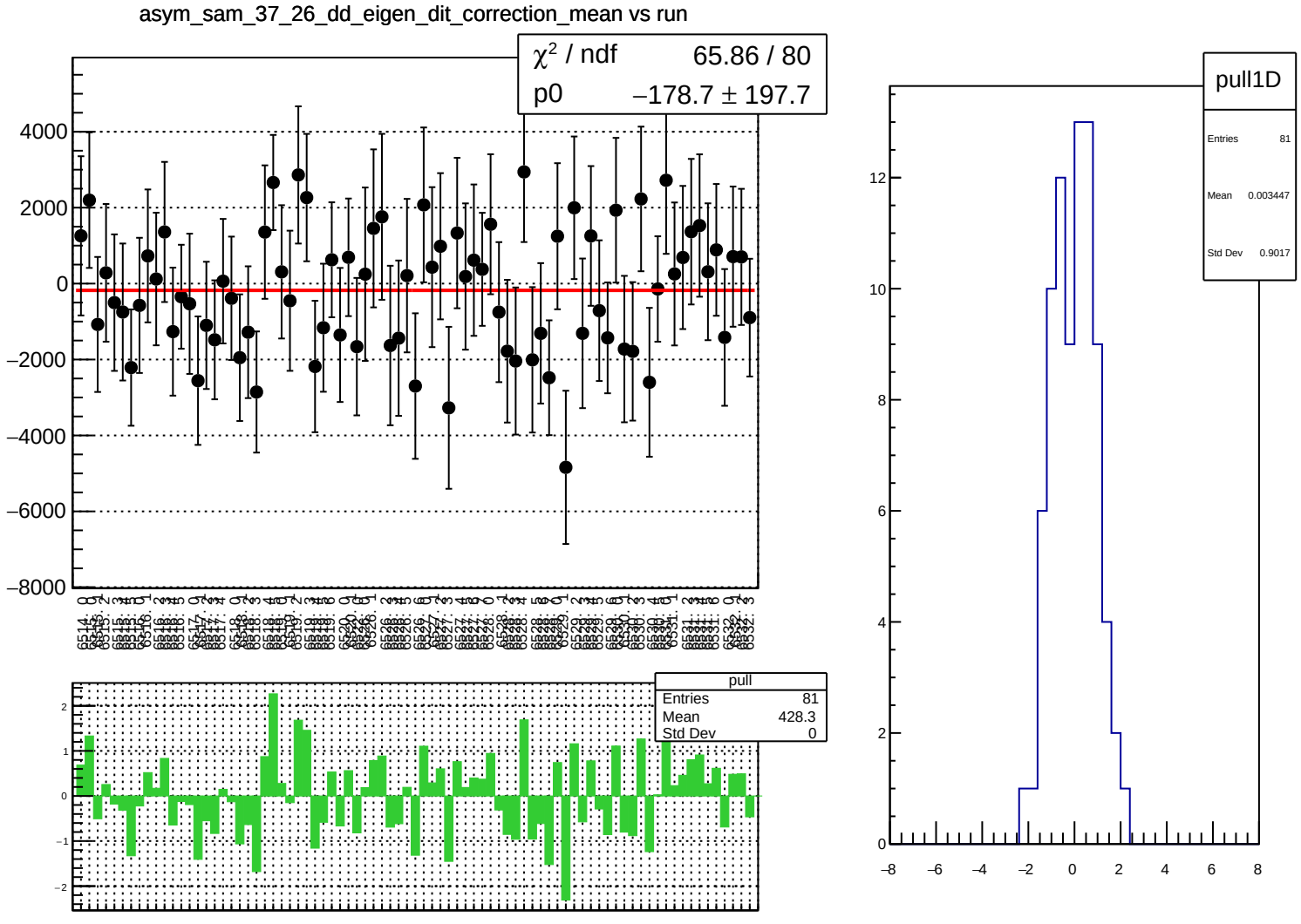

dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 8729 / 80
p0 47.28 ± 0.03795
58
56
54
52
50
48
46
44
42

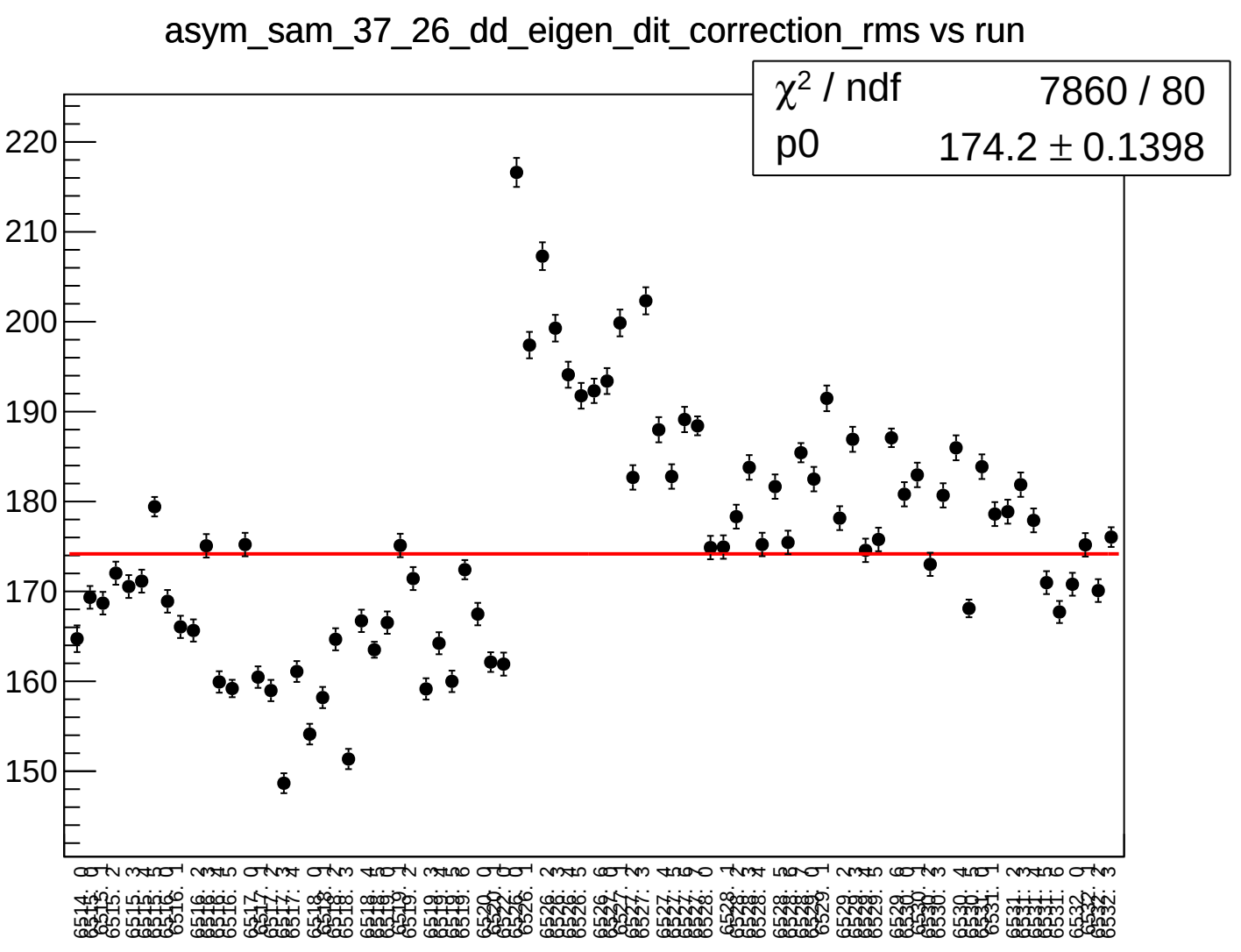

asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 65.86 / 80
p0 −178.7 ± 197.7
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 81
Mean 428.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 81
Mean 0.003448
Std Dev 0.9017
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

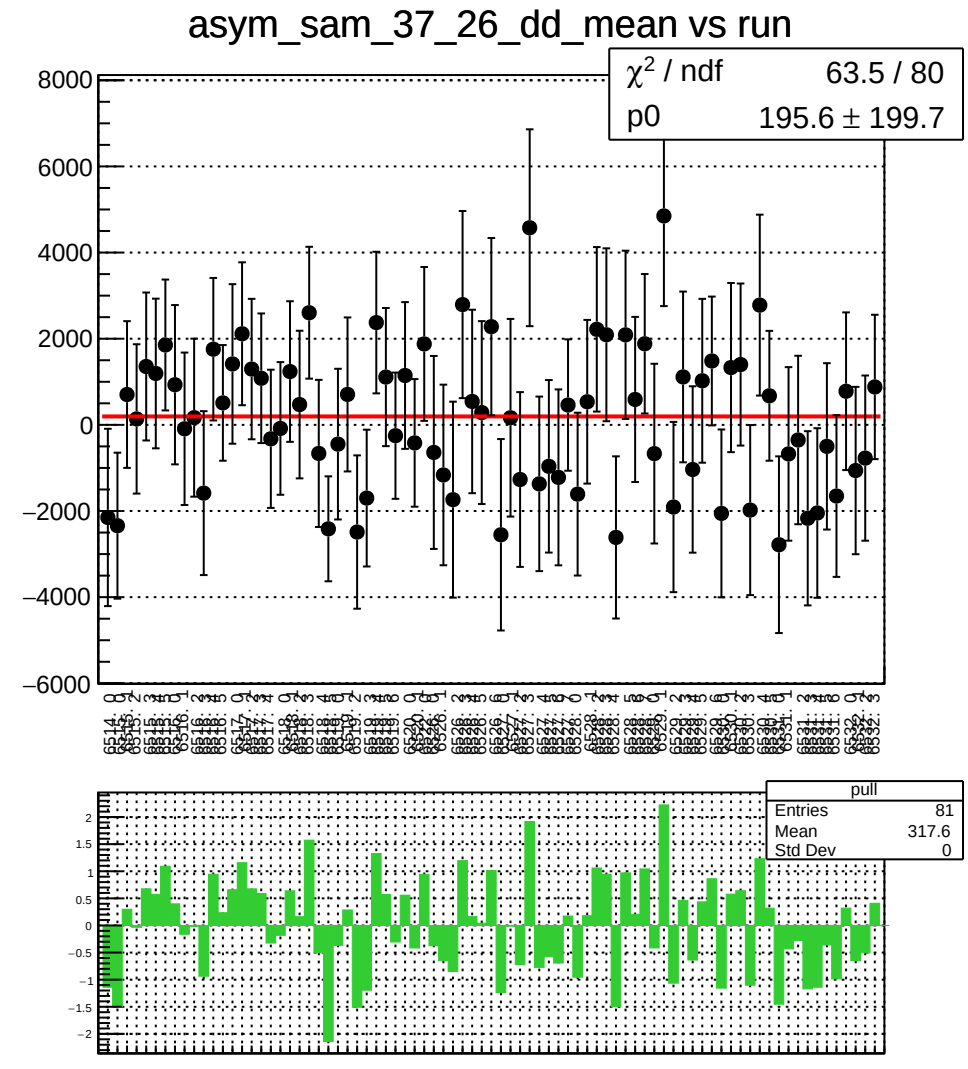

asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 7860 / 80
p0 174.2 ± 0.1398
220
210
200
190
180
170
160
150

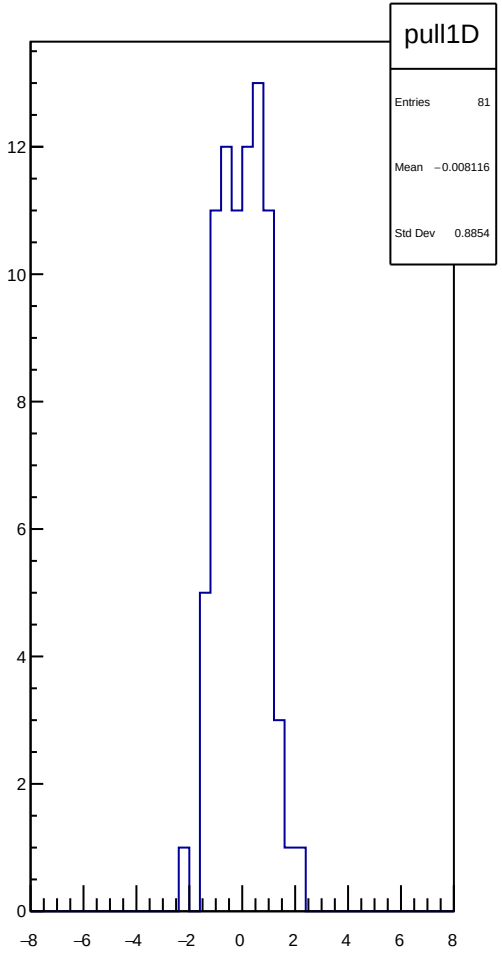

eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 77.93 / 80
p0 17.09 ± 53.67
pull
Entries 81
Mean 223.2
Std Dev 0
pull1D
Entries 81
Mean −0.01902
Std Dev 0.9807

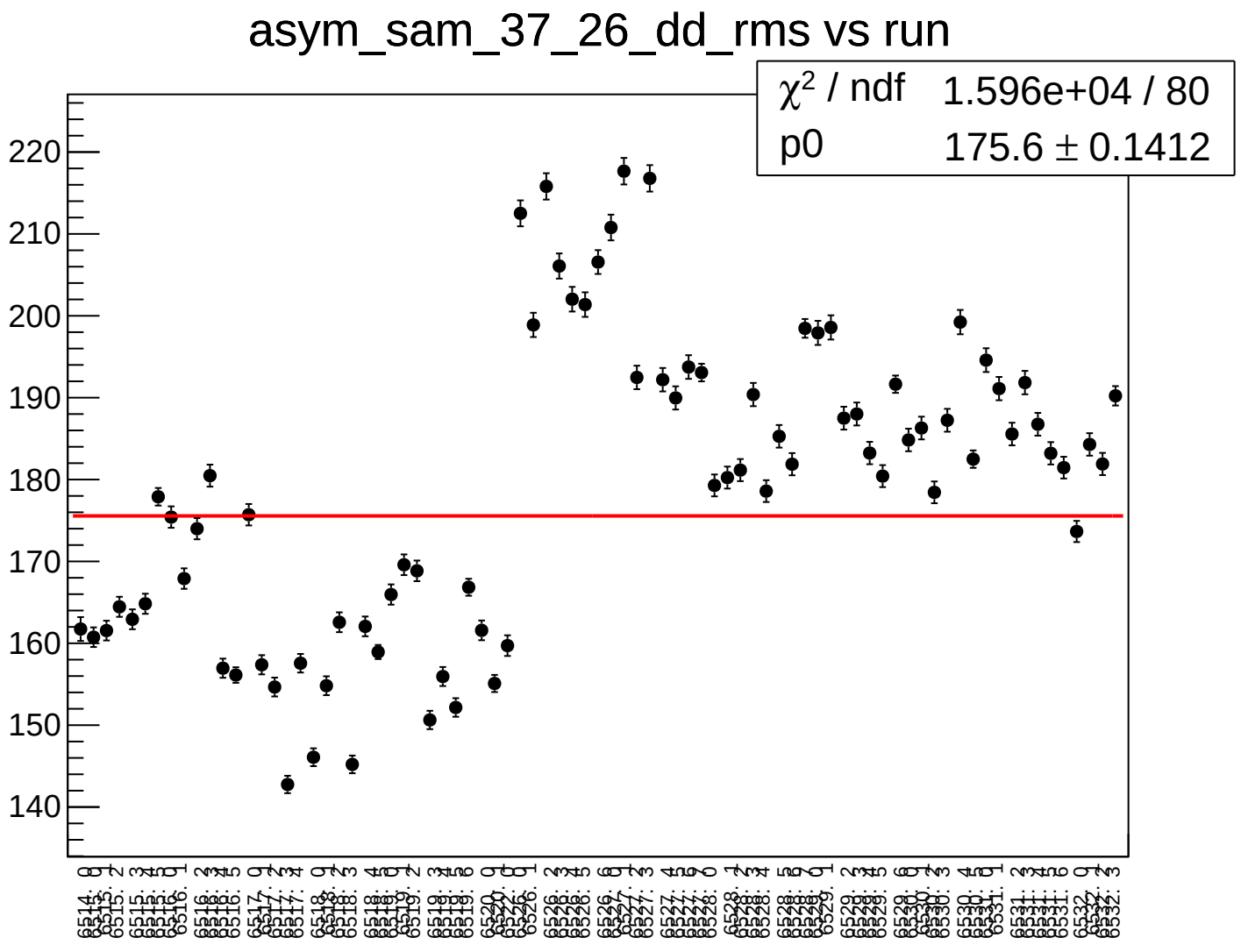

eigen_dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 8727 / 80
p0 47.28 ± 0.03795
58
56
54
52
50
48
46
44
42

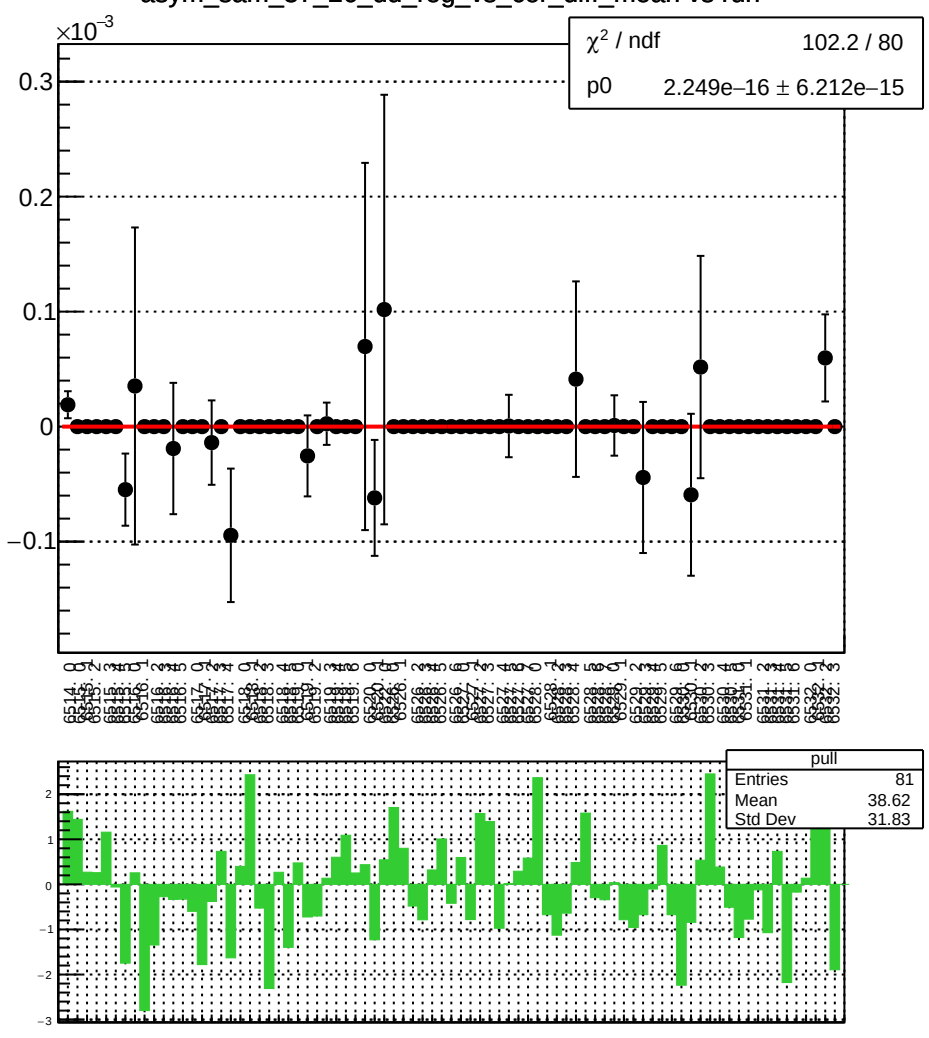

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 65.86 / 80
p0 −178.7 ± 197.7
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 81
Mean 428.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 81
Mean 0.003447
Std Dev 0.9017
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

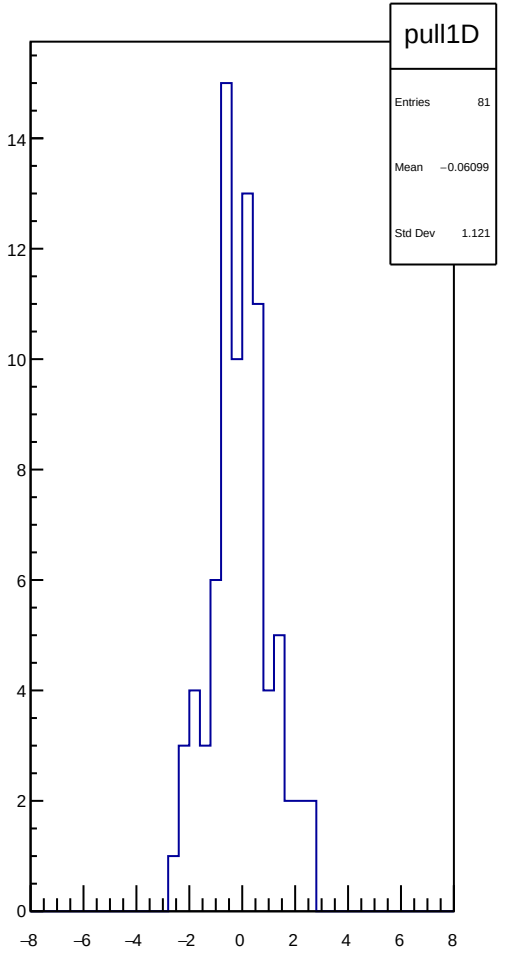

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 7860 / 80
p0 174.2 ± 0.1398
220
210
200
190
180
170
160
150

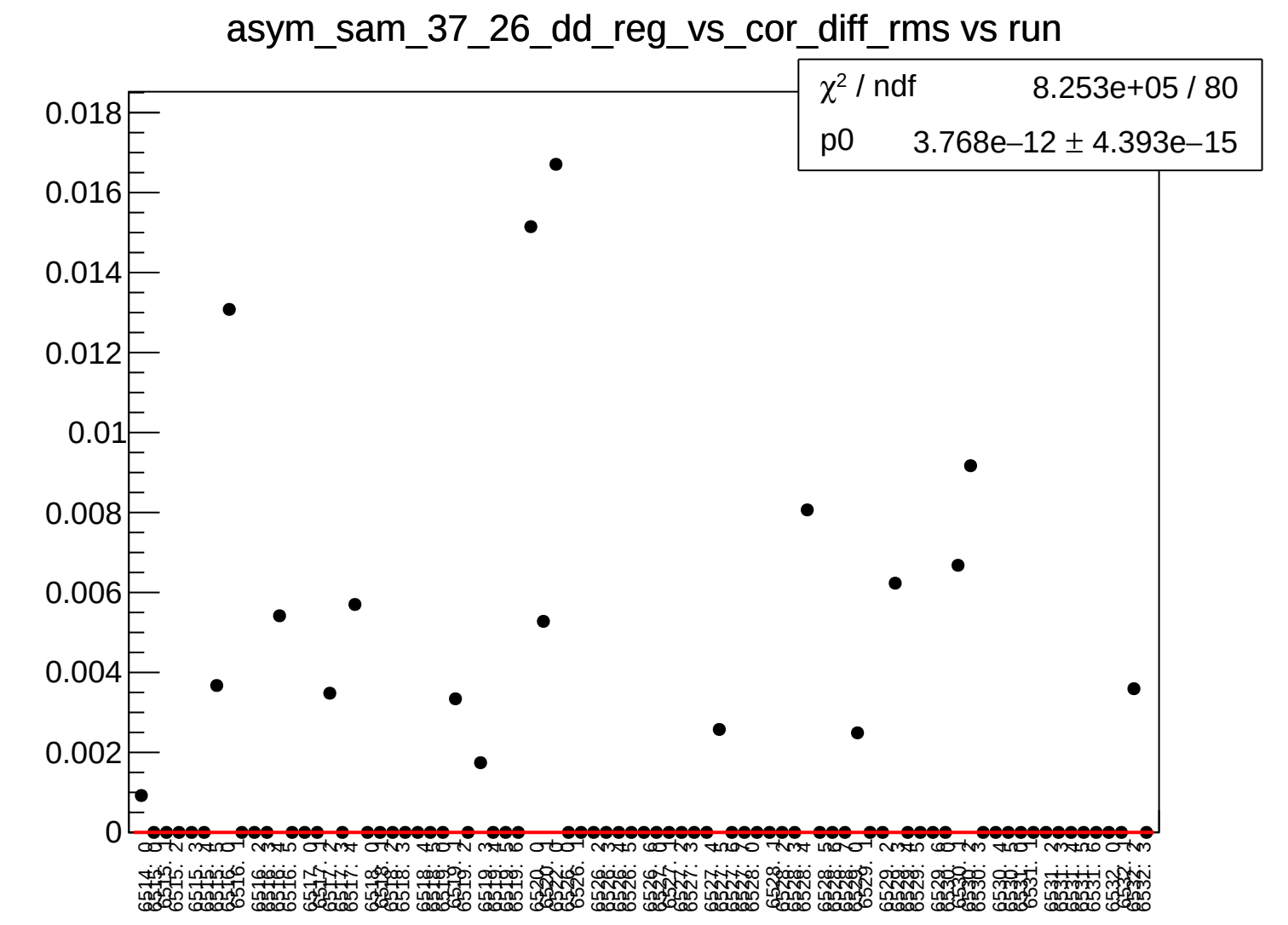

asym_sam_37_26_dd_mean vs run
χ² / ndf 63.5 / 80
p0 195.6 ± 199.7
pull
Entries 81
Mean 317.6
Std Dev 0

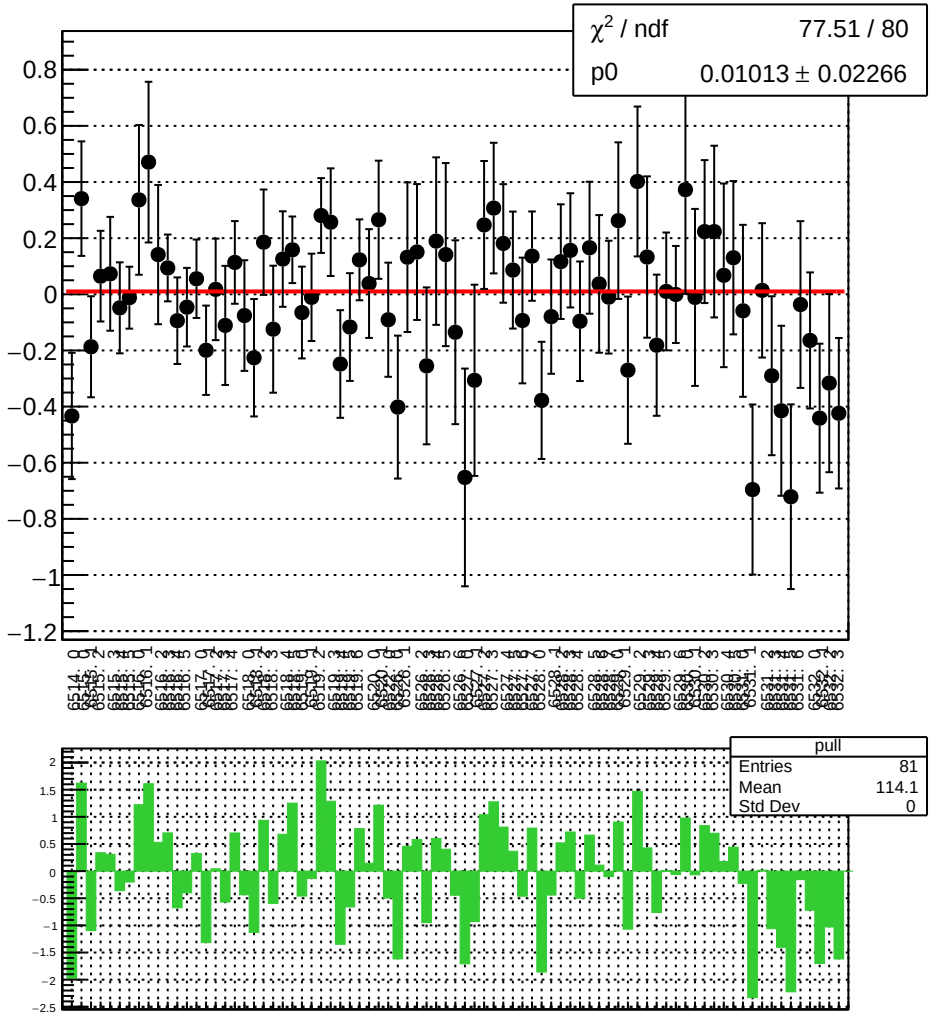

pull1D
Entries 81
Mean −0.008116
Std Dev 0.8854

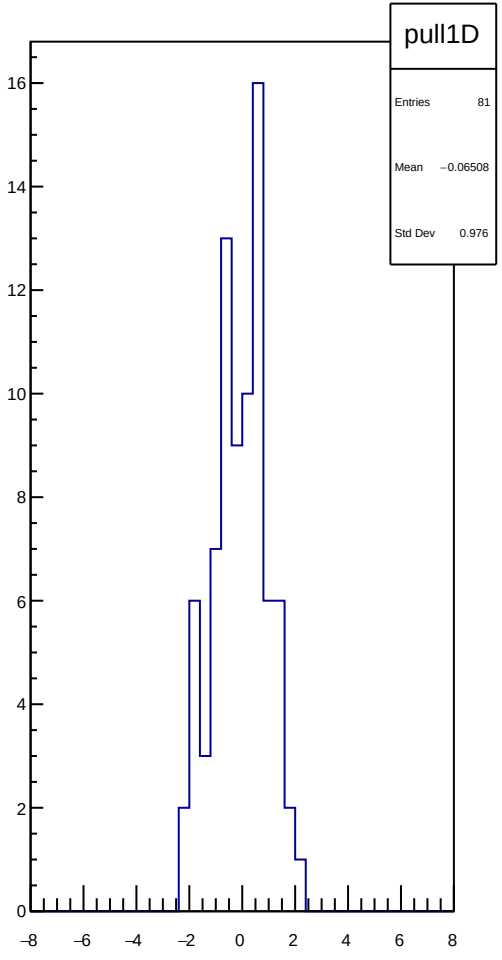

asym_sam_37_26_dd_rms vs run
χ² / ndf 1.596e+04 / 80
p0 175.6 ± 0.1412
220
210
200
190
180
170
160
150
140

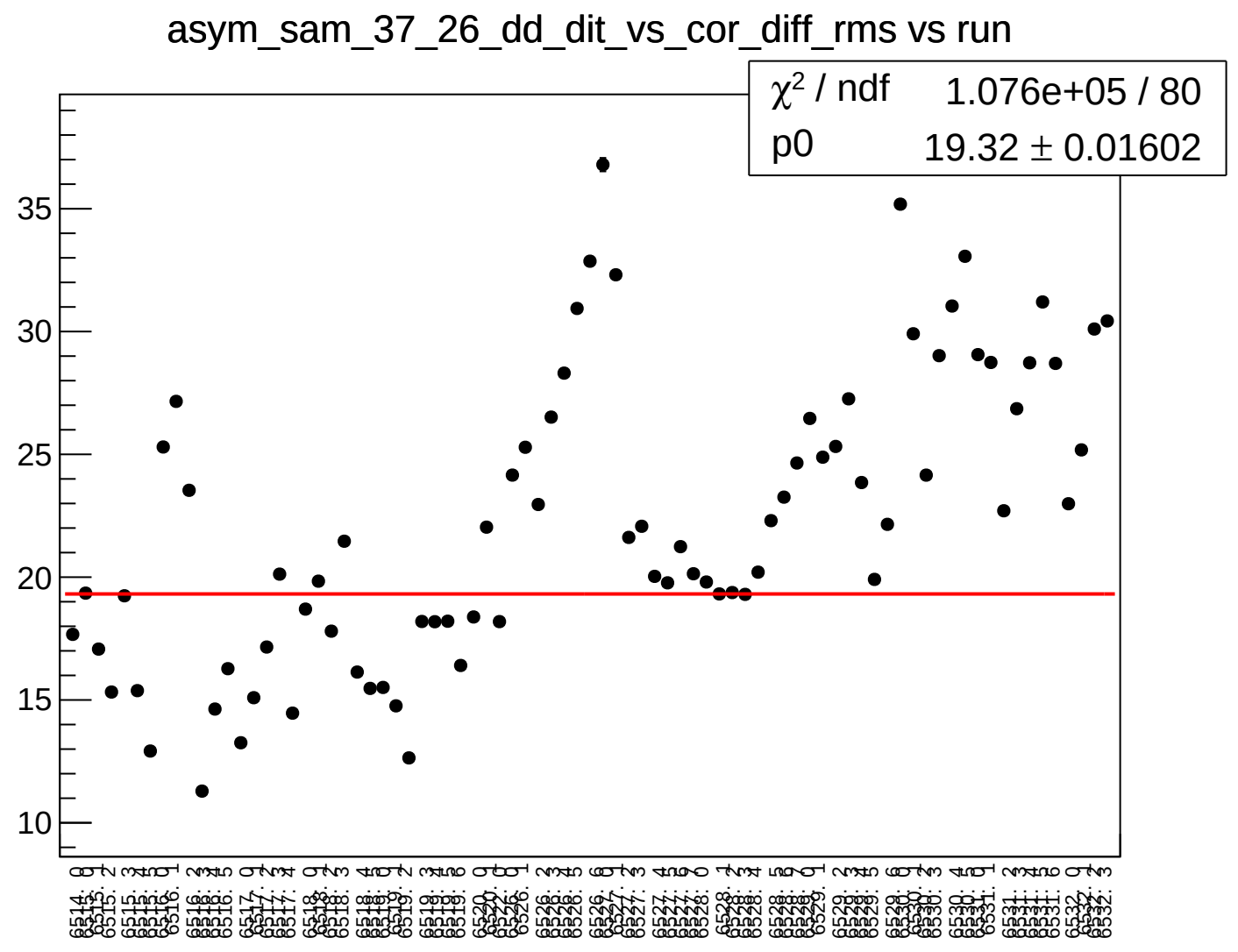

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 102.2 / 80
p0 2.249e−16 ± 6.212e−15
0.3
0.2
0.1
0
−0.1
pull
Entries 81
Mean 38.62
Std Dev 31.83
2
1
0
−1
−2
−3

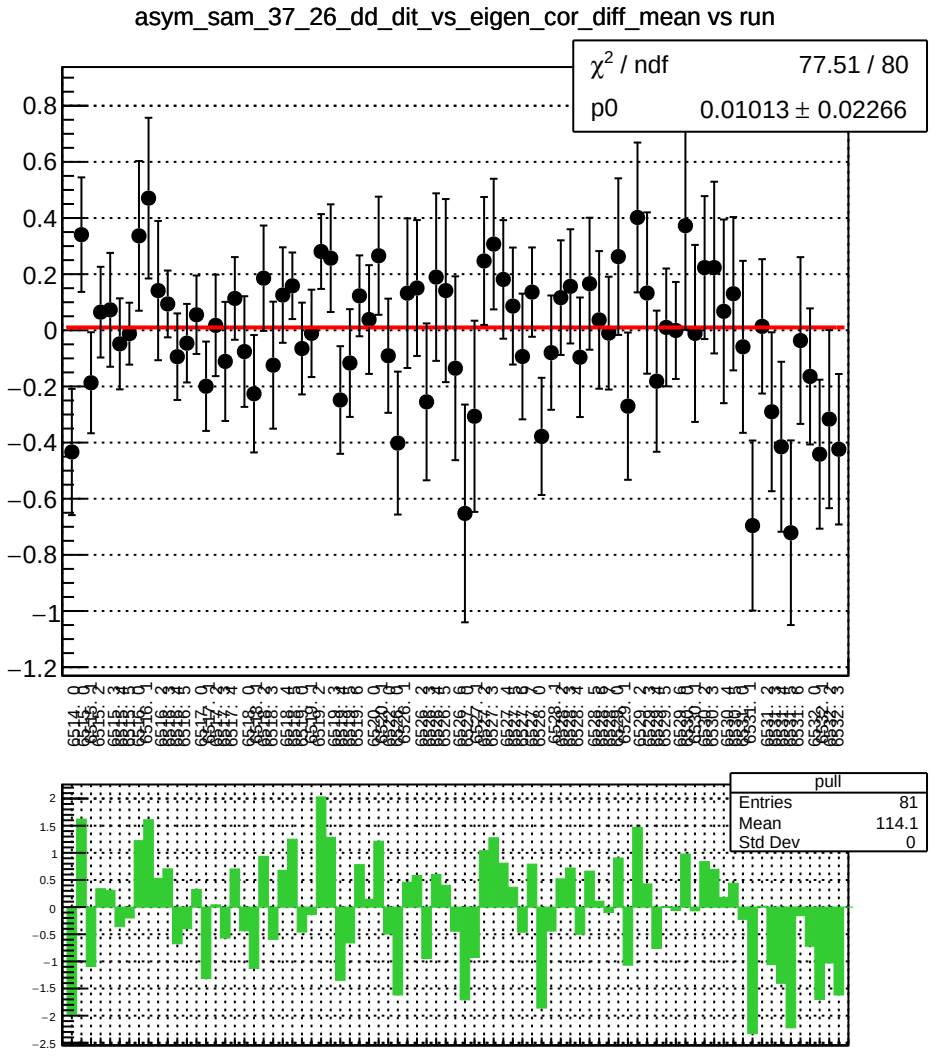

pull1D
Entries 81
Mean −0.06099
Std Dev 1.121
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

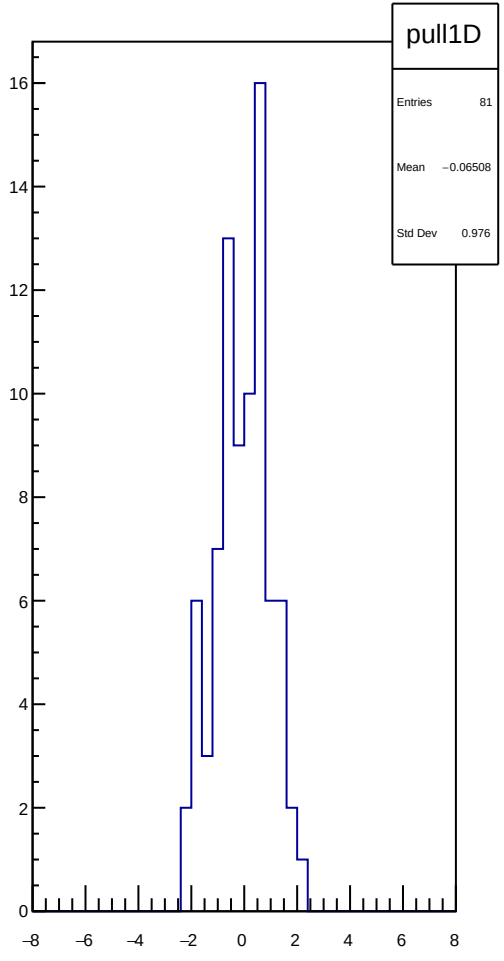

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.253e+05 / 80
p0 3.768e−12 ± 4.393e−15
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0

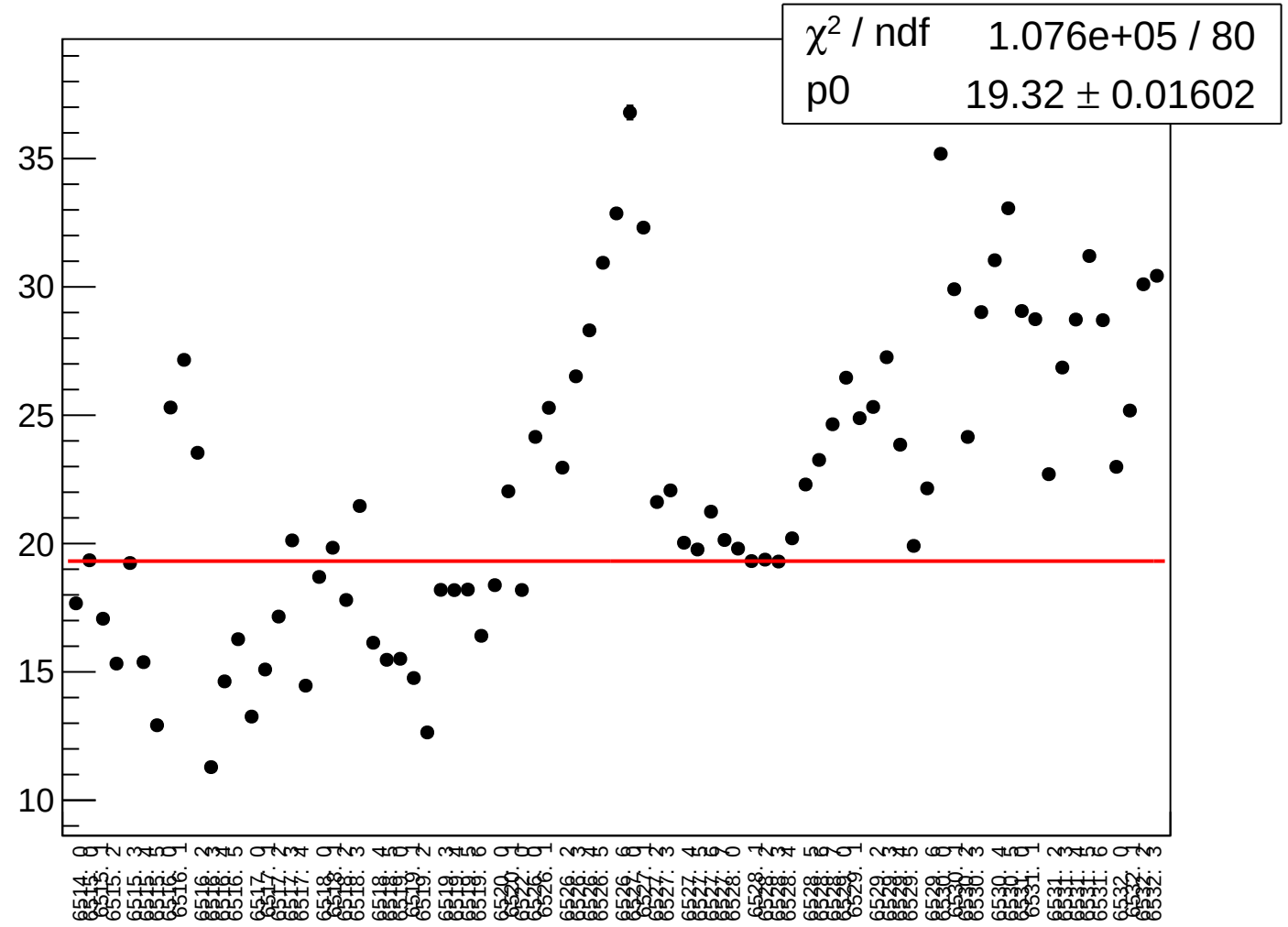

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 77.51 / 80
p0 0.01013 ± 0.02266
pull
Entries 81
Mean 114.1
Std Dev 0

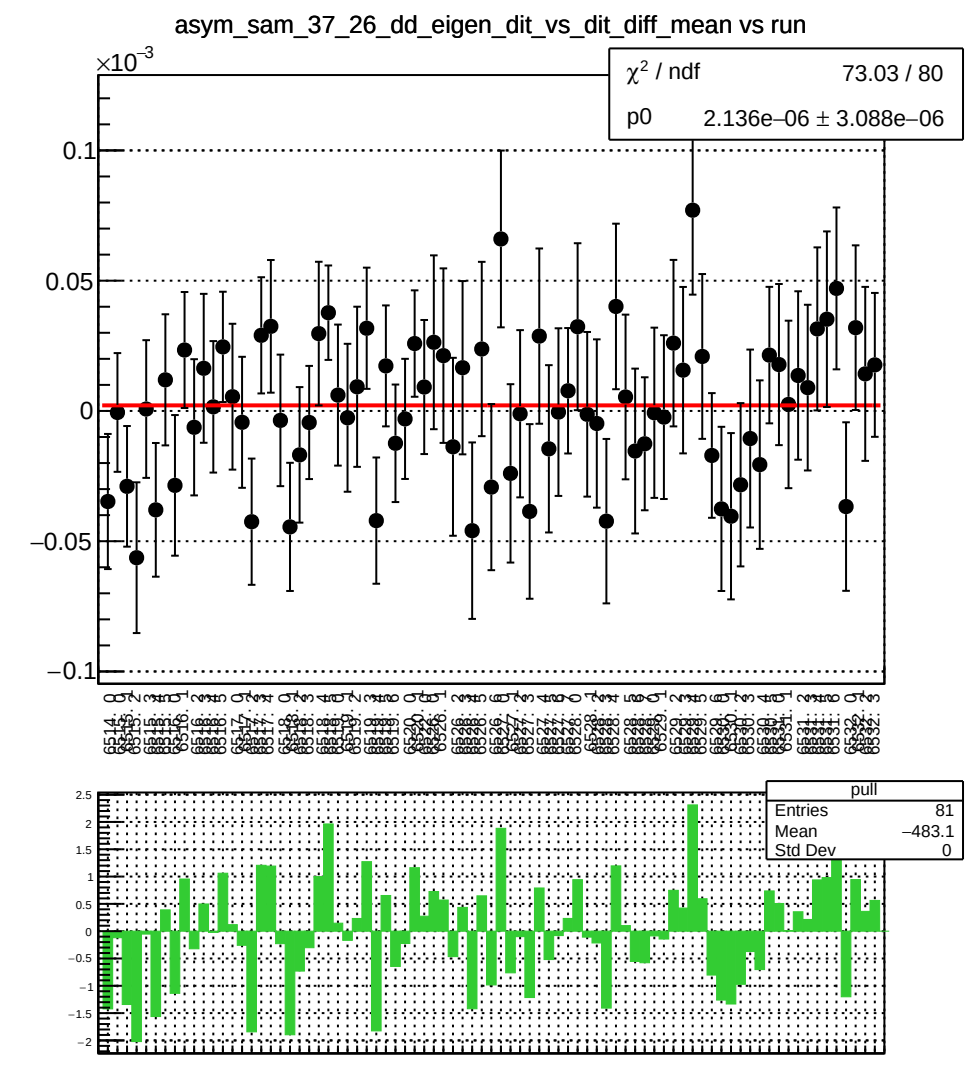

pull1D
Entries 81
Mean −0.06508
Std Dev 0.976

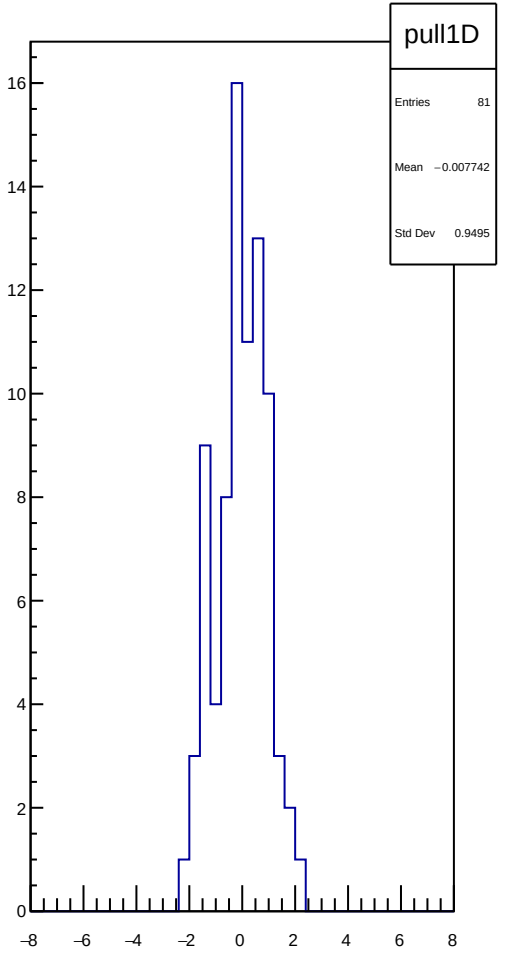

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.076e+05 / 80
p0 19.32 ± 0.01602
35
30
25
20
15
10

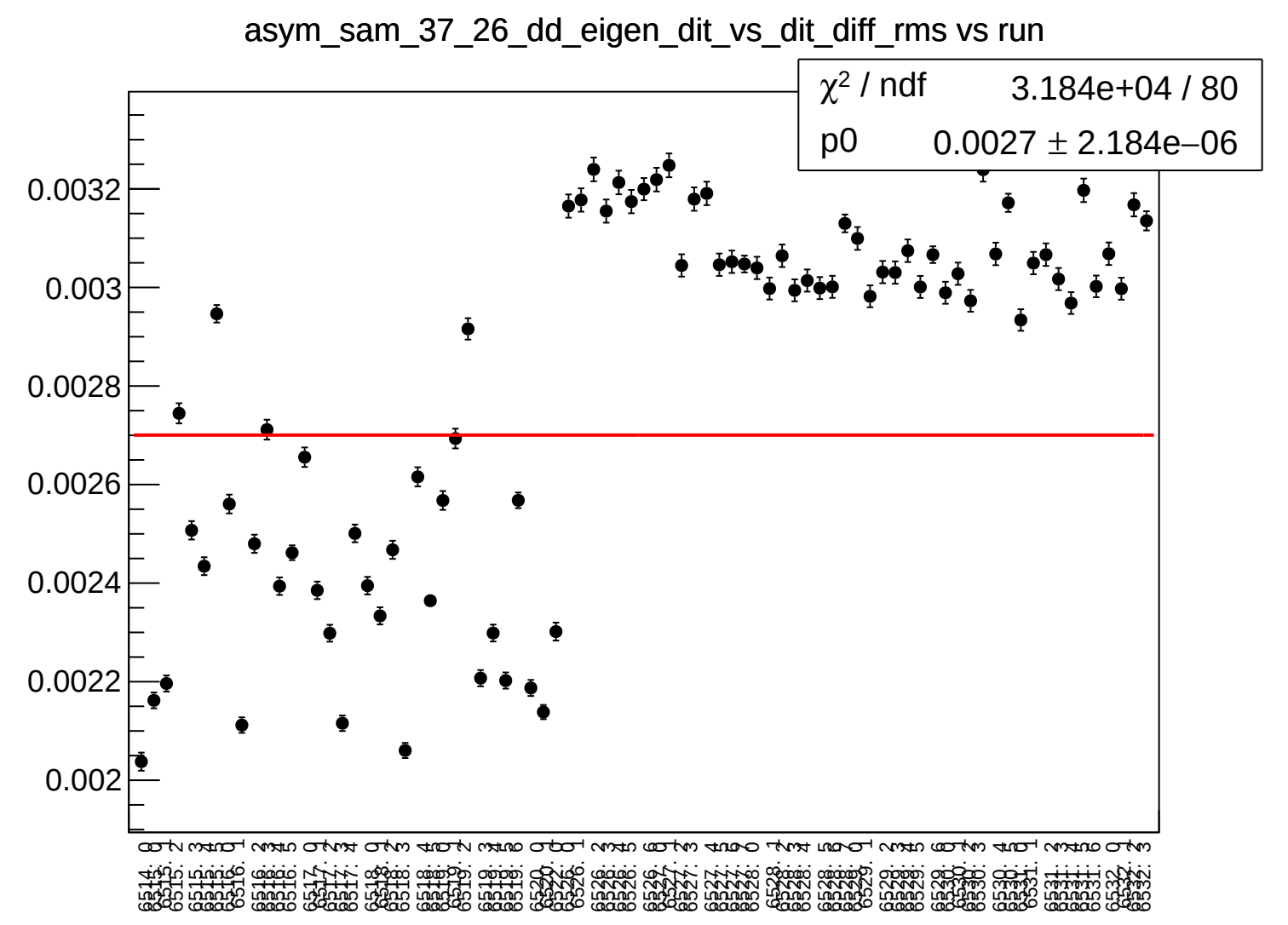

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.51 / 80
p0 0.01013 ± 0.02266
pull
Entries 81
Mean 114.1
Std Dev 0

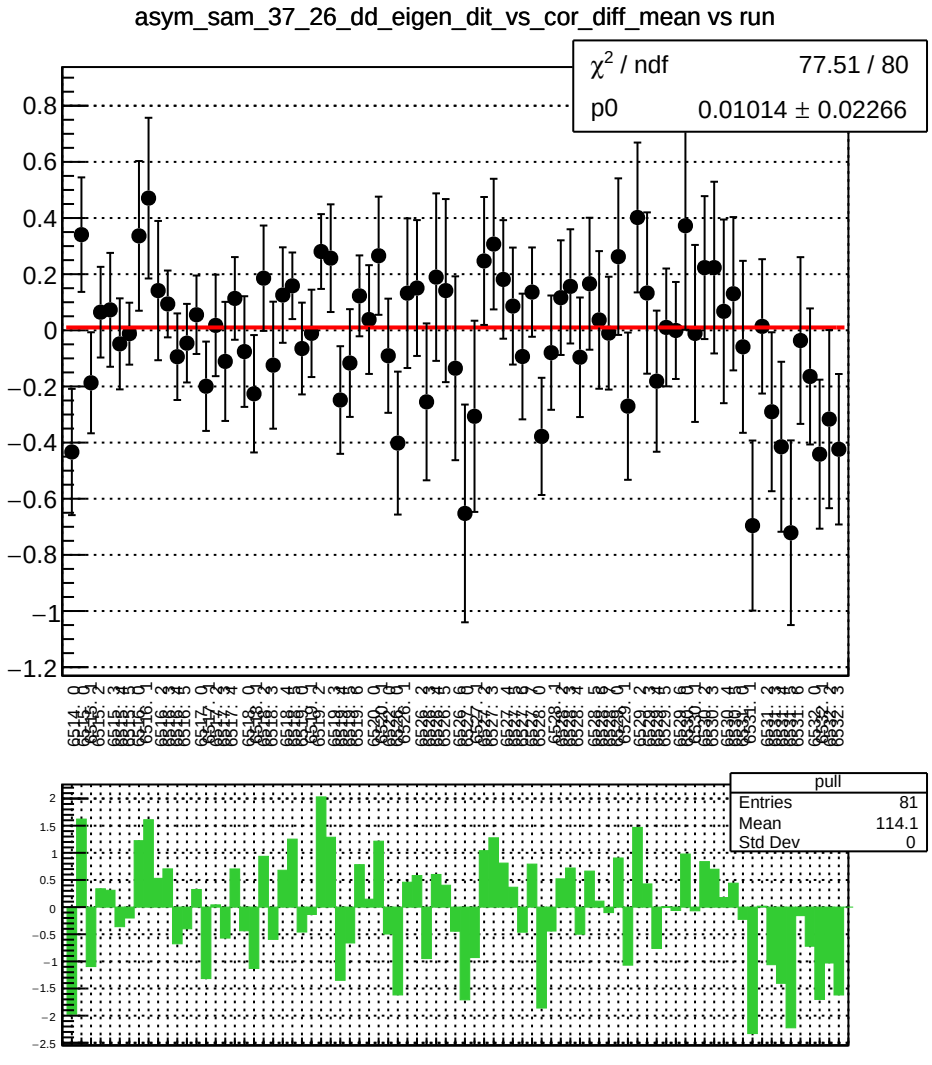

pull1D
Entries 81
Mean −0.06508
Std Dev 0.976

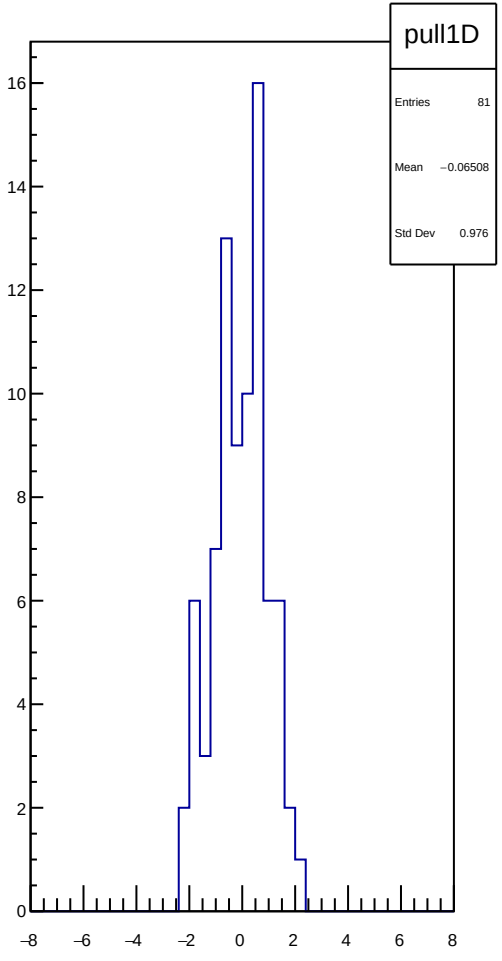

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.076e+05 / 80
p0 19.32 ± 0.01602
35
30
25
20
15
10

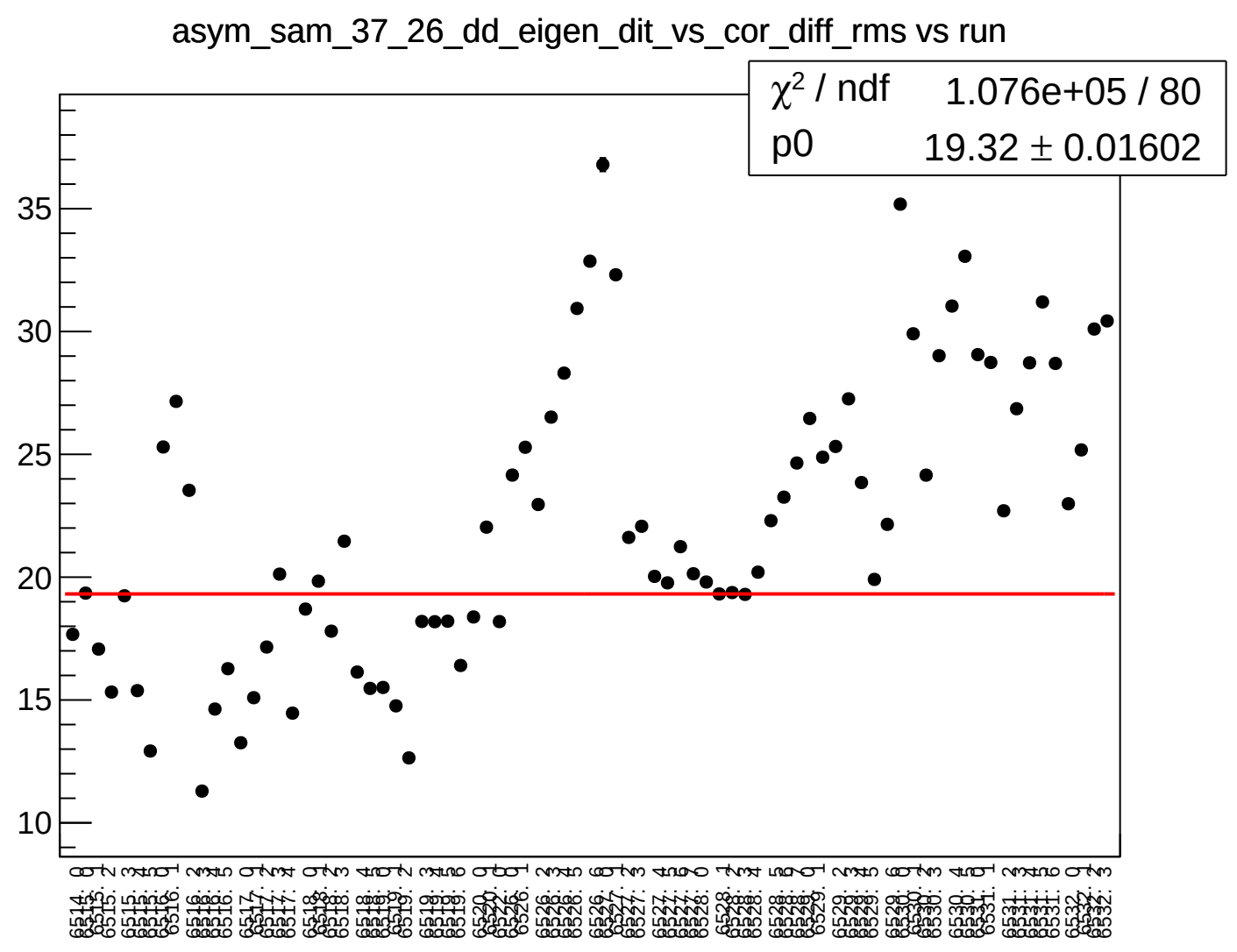

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.03 / 80
p0 2.136e−06 ± 3.088e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 81
Mean −483.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

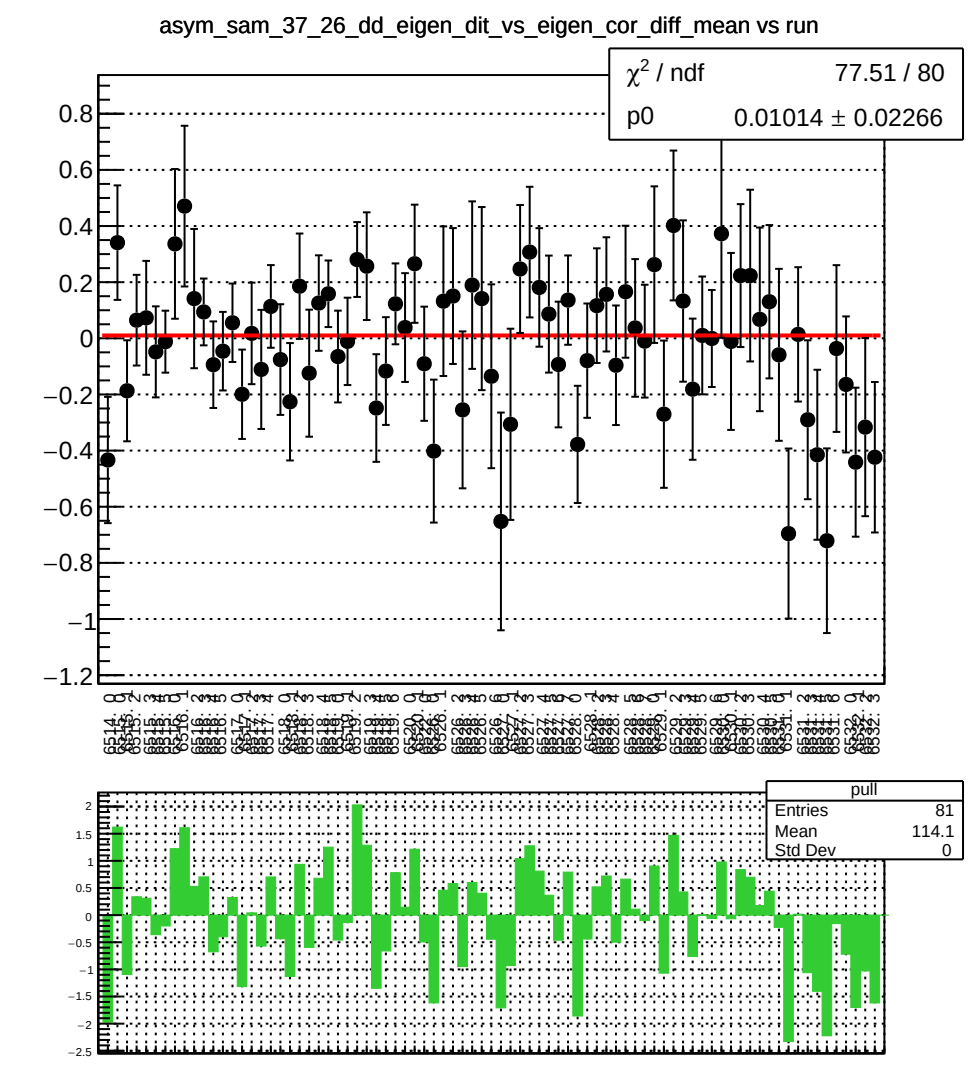

pull1D
Entries 81
Mean −0.007742
Std Dev 0.9495
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

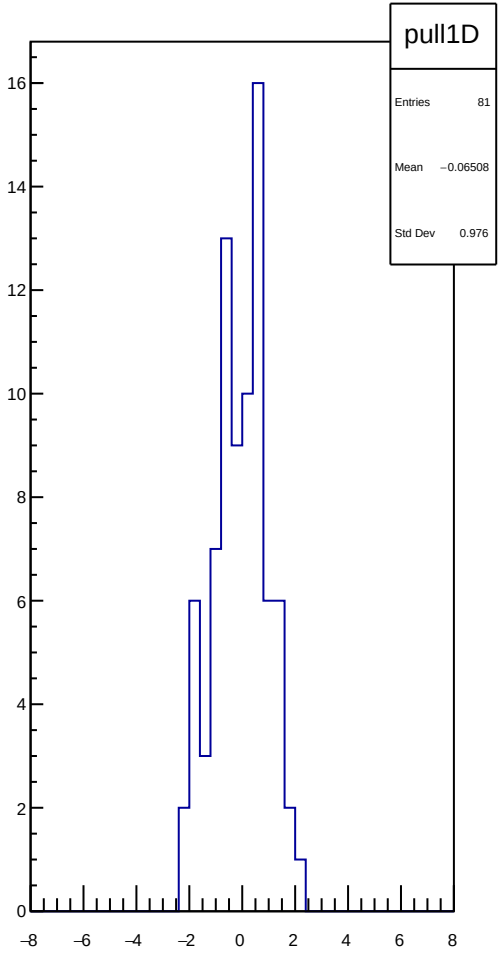

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.184e+04 / 80
p0 0.0027 ± 2.184e−06
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002

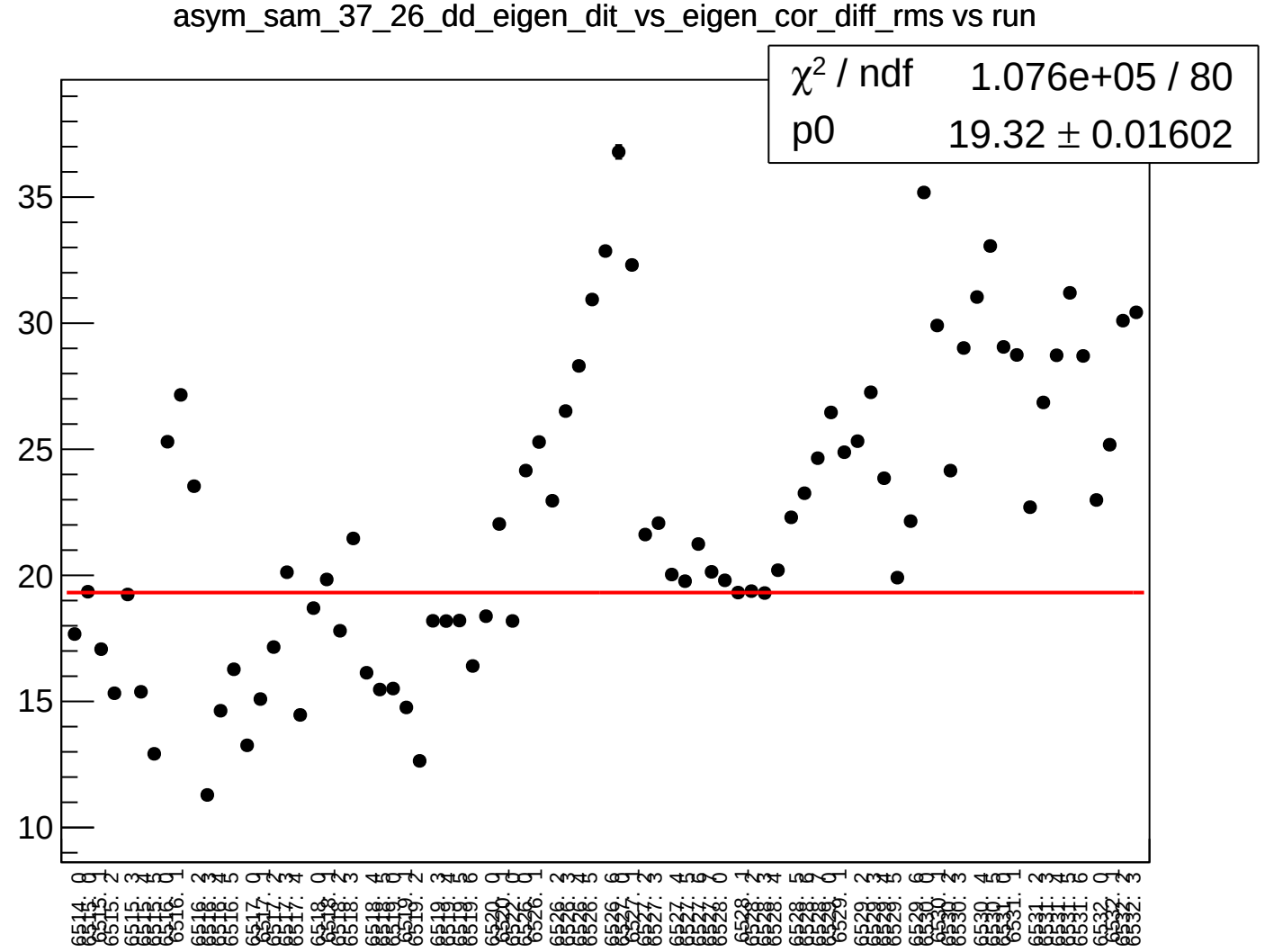

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.51 / 80
p0 0.01014 ± 0.02266
pull
Entries 81
Mean 114.1
Std Dev 0

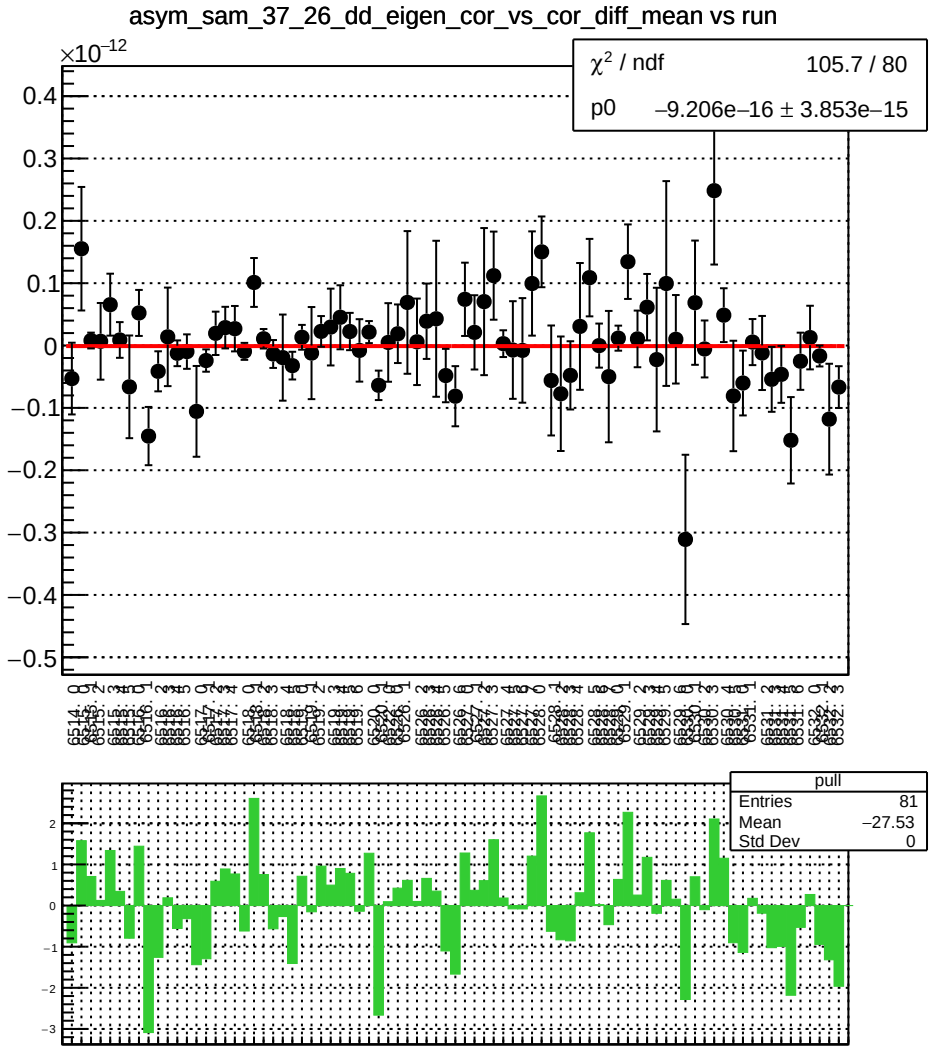

pull1D
Entries 81
Mean −0.06508
Std Dev 0.976

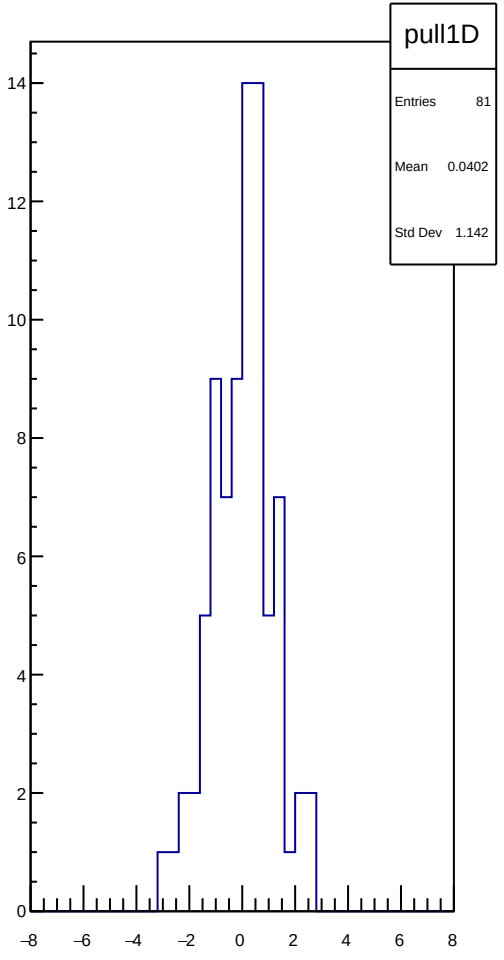

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.076e+05 / 80
p0 19.32 ± 0.01602
35
30
25
20
15
10

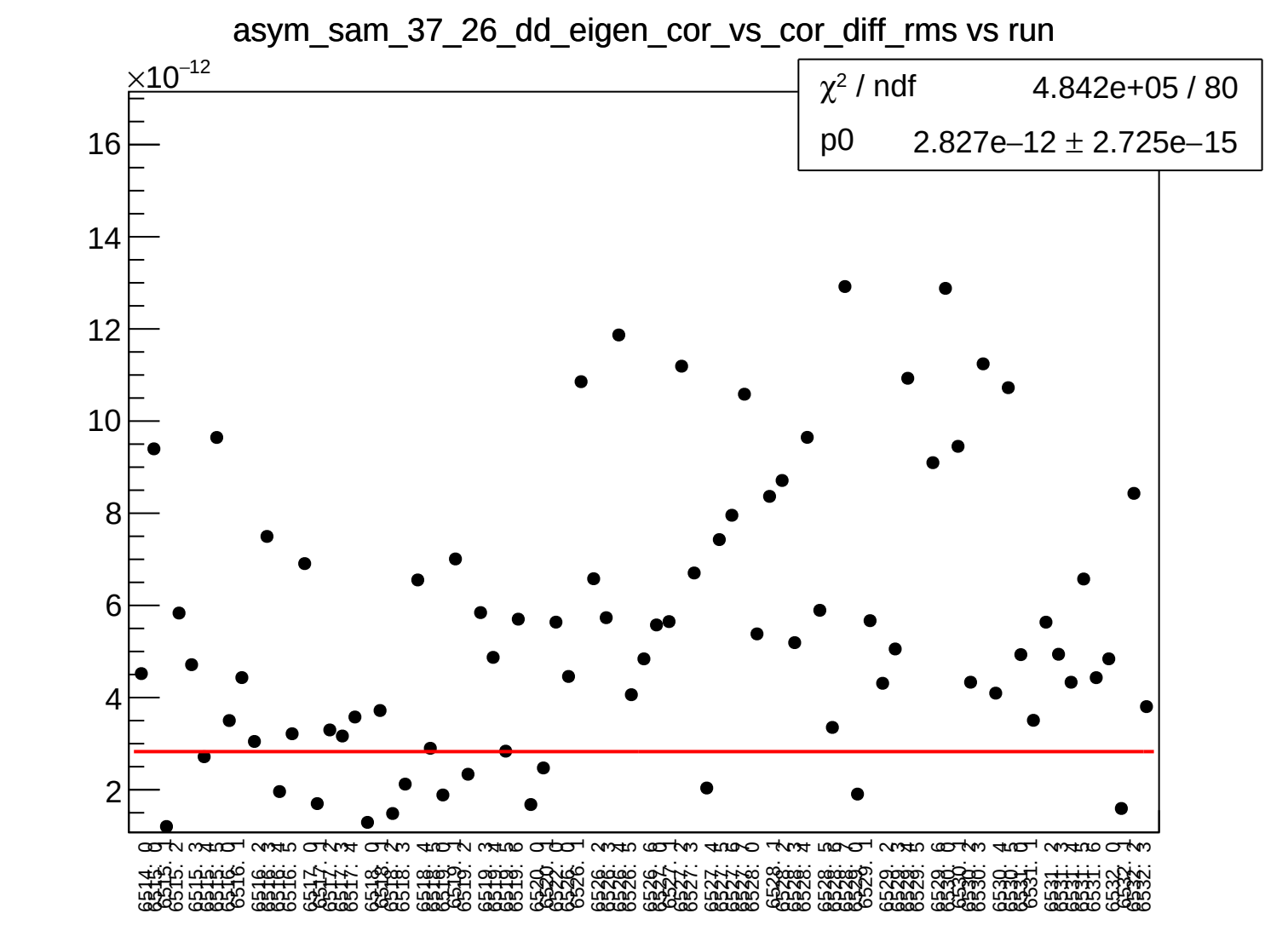

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.51 / 80
p0 0.01014 ± 0.02266
pull
Entries 81
Mean 114.1
Std Dev 0

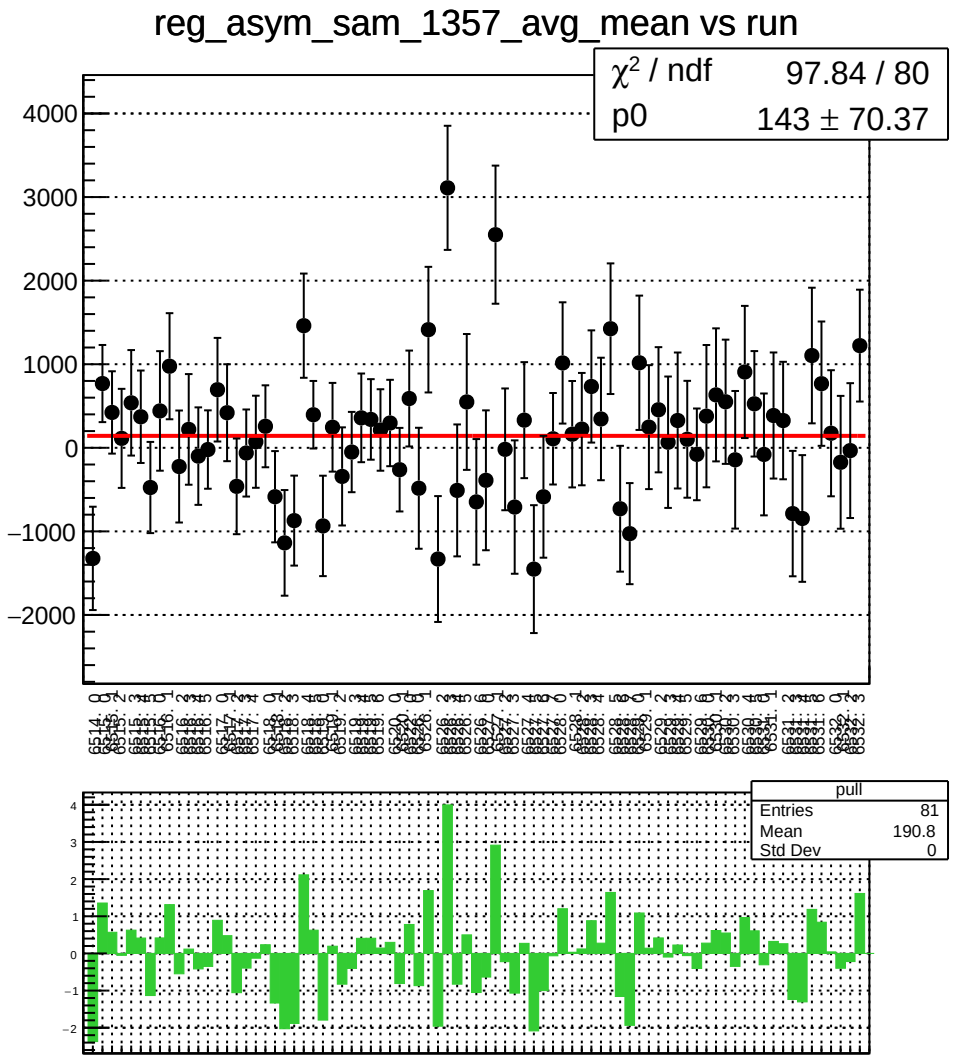

pull1D
Entries 81
Mean −0.06508
Std Dev 0.976

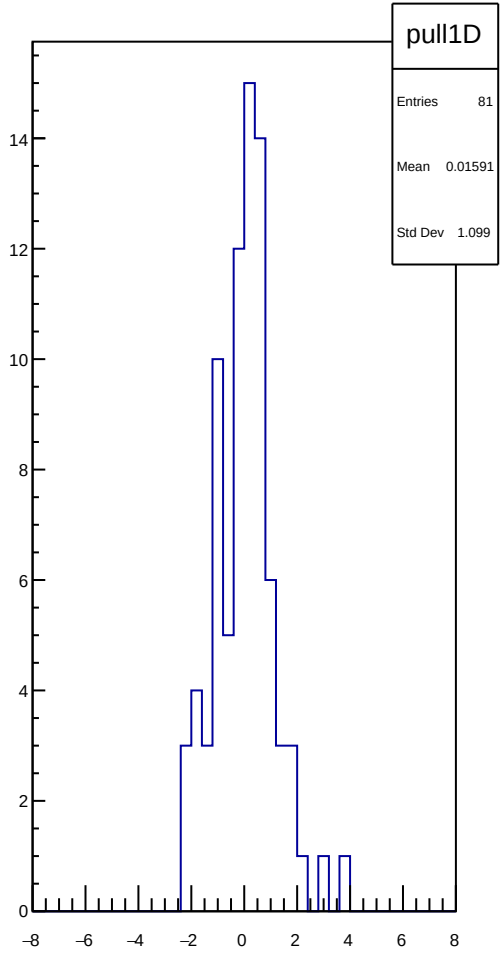

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.076e+05 / 80
p0 19.32 ± 0.01602
35
30
25
20
15
10

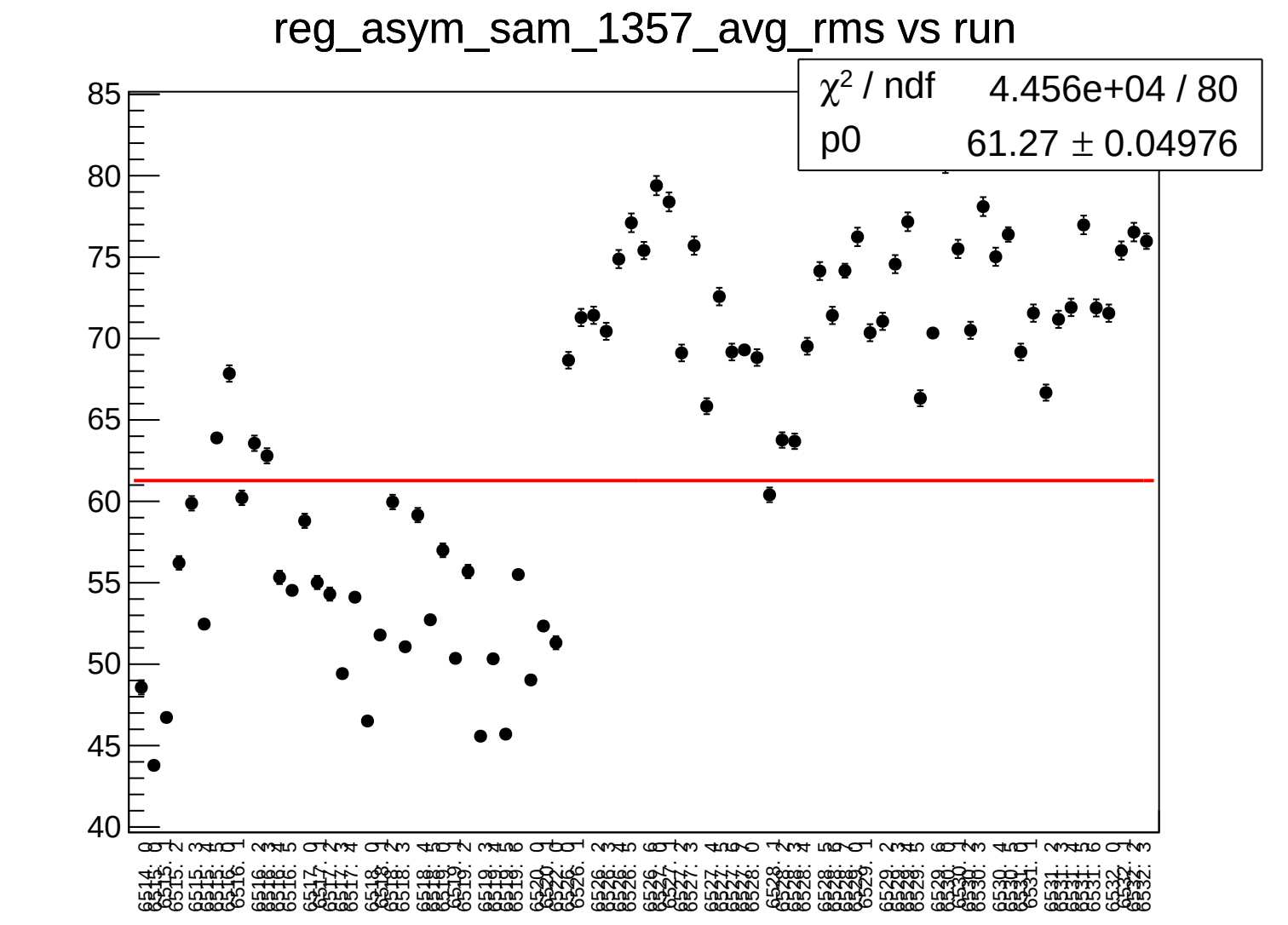

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 105.7 / 80
p0 −9.206e−16 ± 3.853e−15
pull
Entries 81
Mean −27.53
Std Dev 0

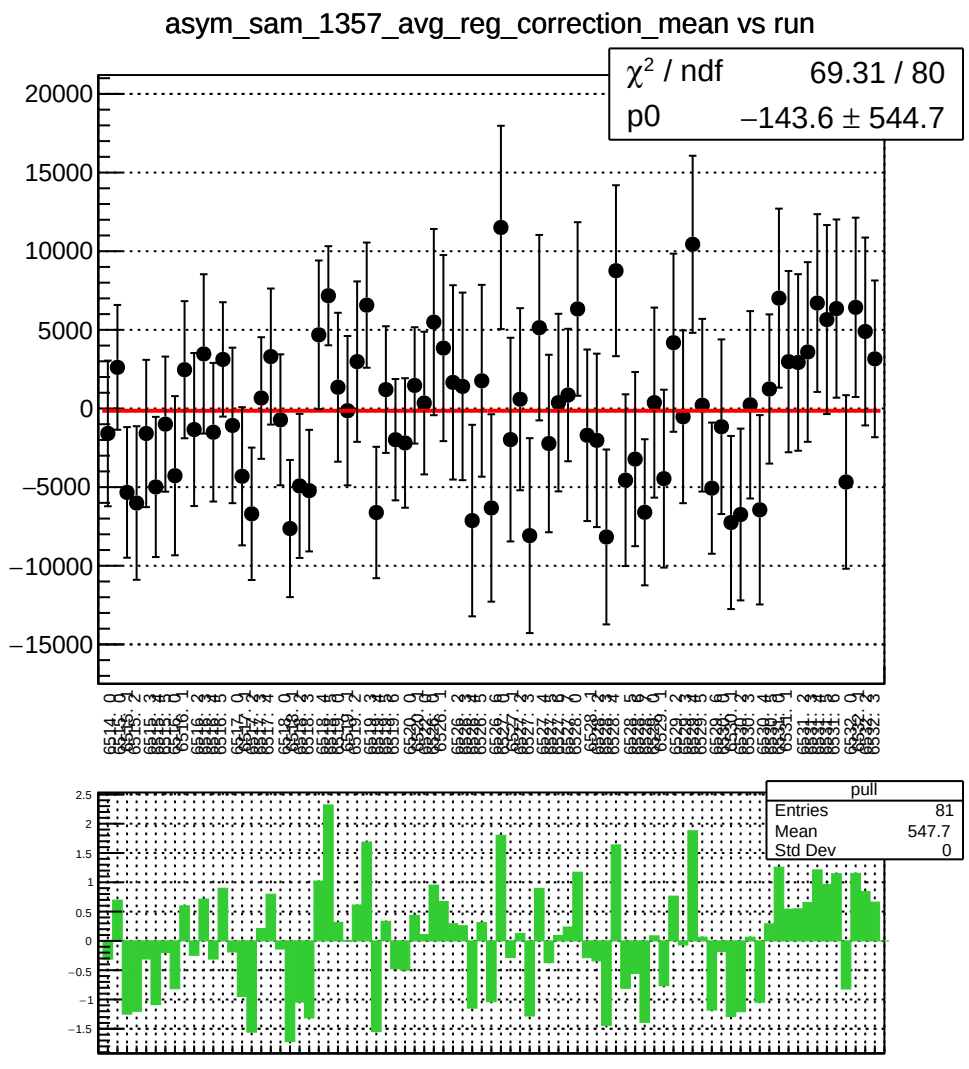

pull1D
Entries 81
Mean 0.0402
Std Dev 1.142

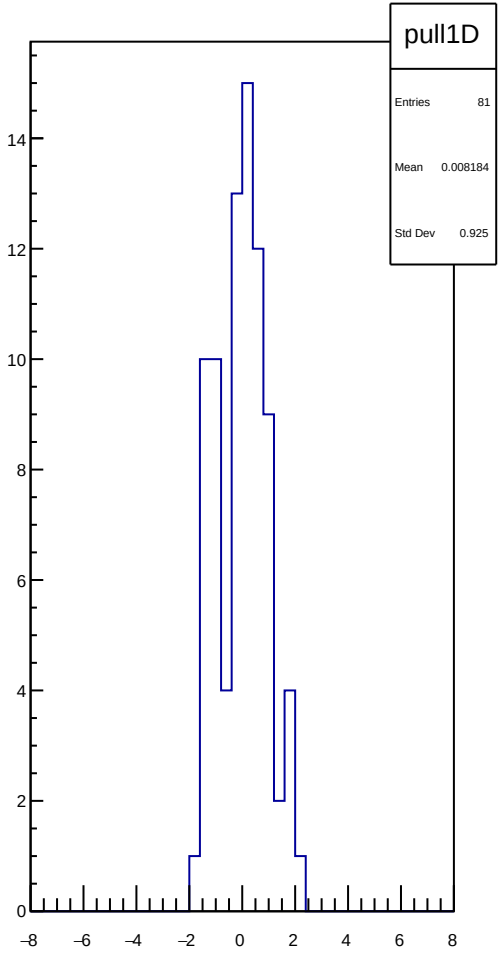

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.842e+05 / 80
p0 2.827e−12 ± 2.725e−15
16
14
12
10
8
6
4
2

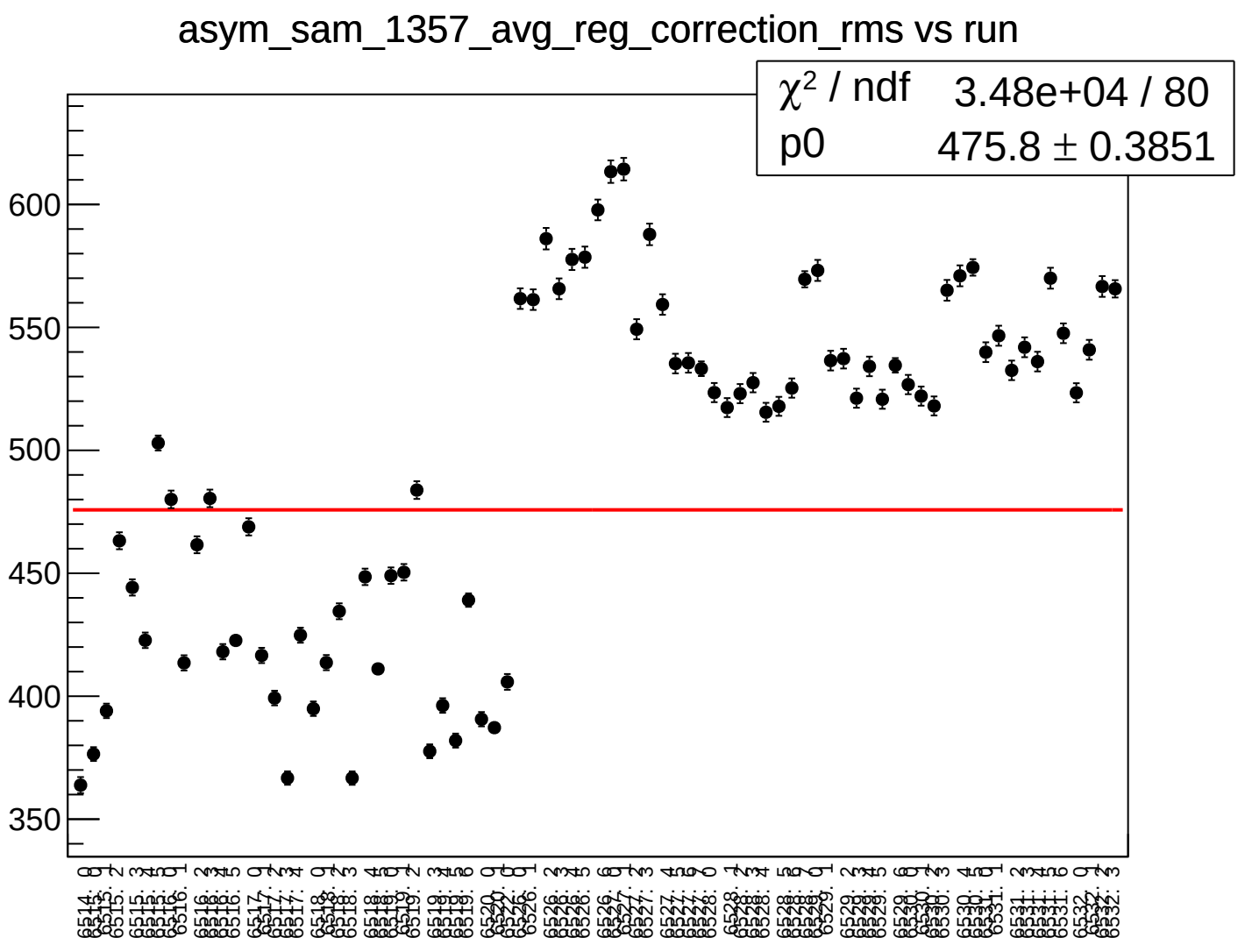

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 97.84 / 80
p0 143 ± 70.37
4000
3000
2000
1000
0
−1000
−2000
pull
Entries 81
Mean 190.8
Std Dev 0
4
3
2
1
0
−1
−2

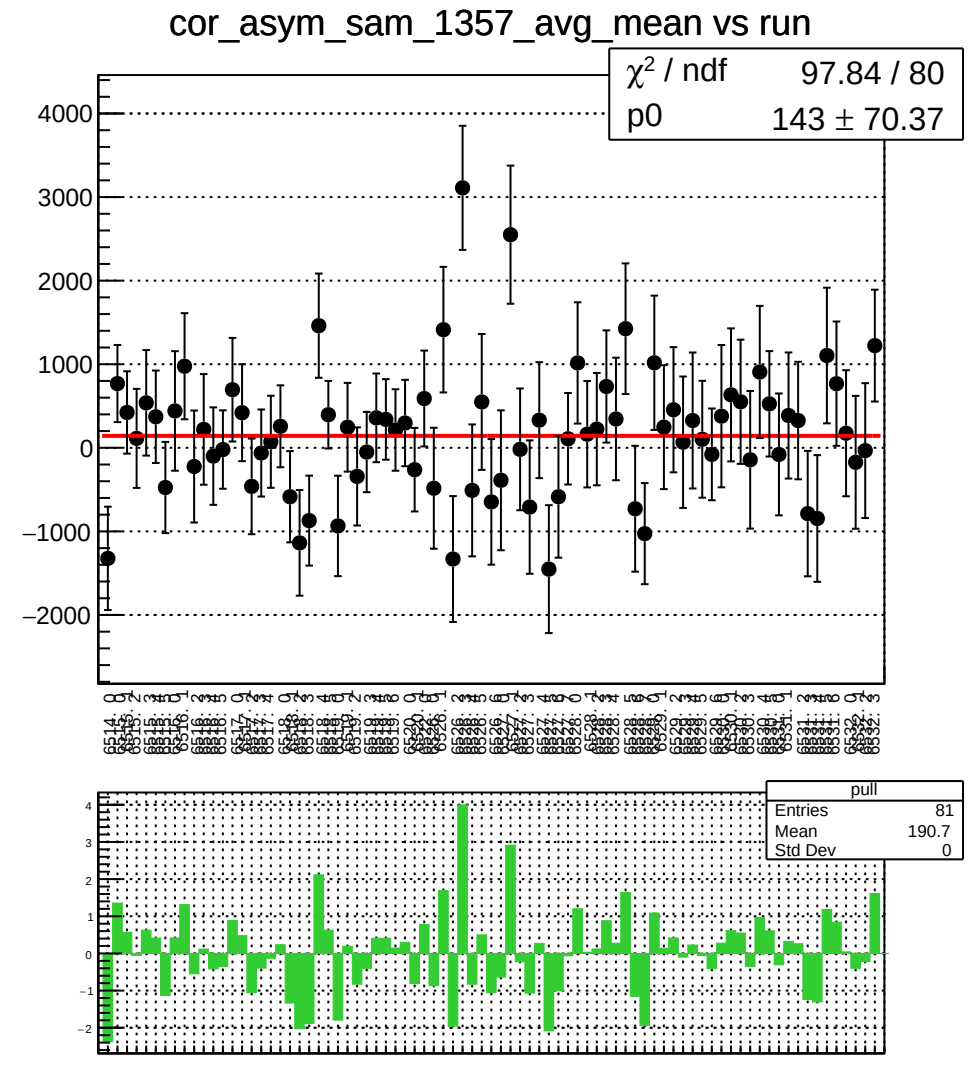

pull1D
Entries 81
Mean 0.01591
Std Dev 1.099
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

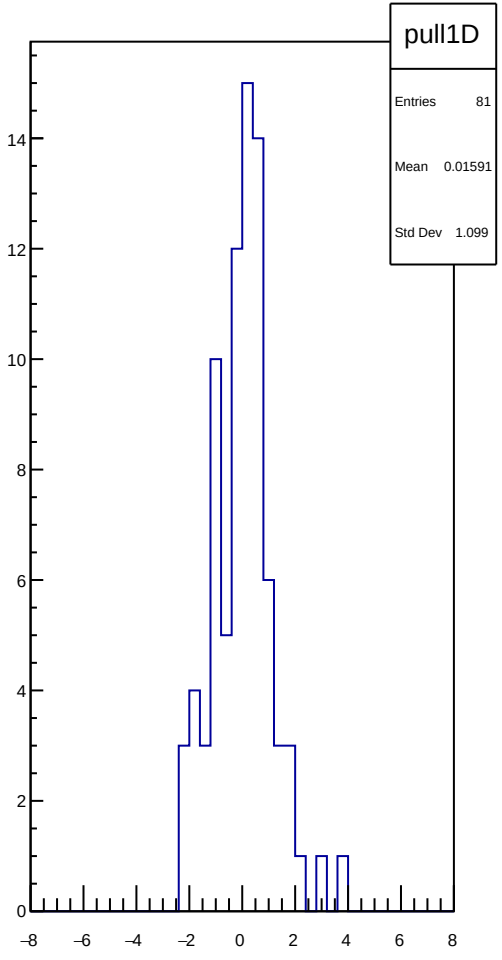

reg_asym_sam_1357_avg_rms vs run
χ² / ndf 4.456e+04 / 80
p0 61.27 ± 0.04976
85
80
75
70
65
60
55
50
45
40

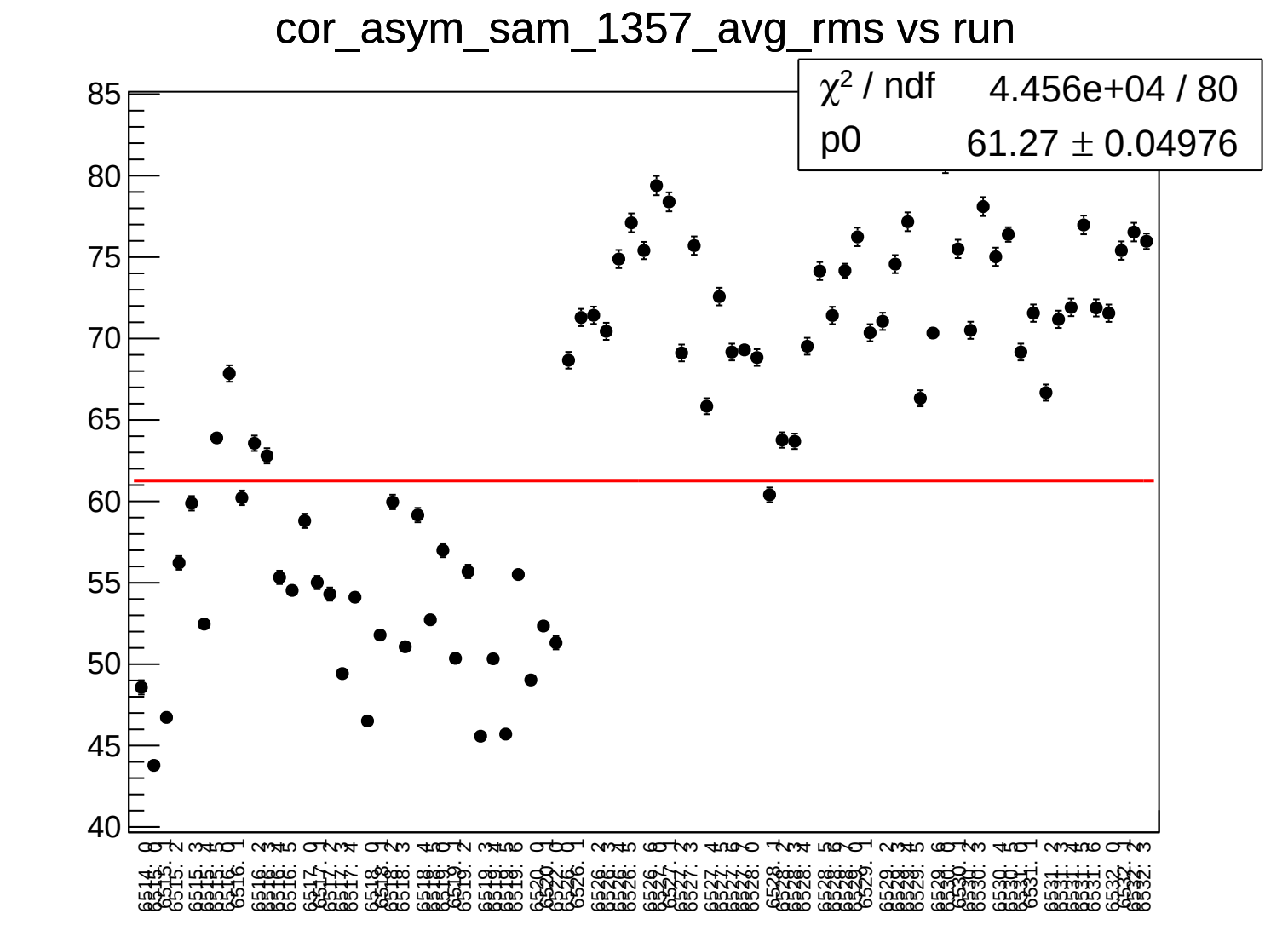

asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 69.31 / 80
p0 −143.6 ± 544.7
pull
Entries 81
Mean 547.7
Std Dev 0

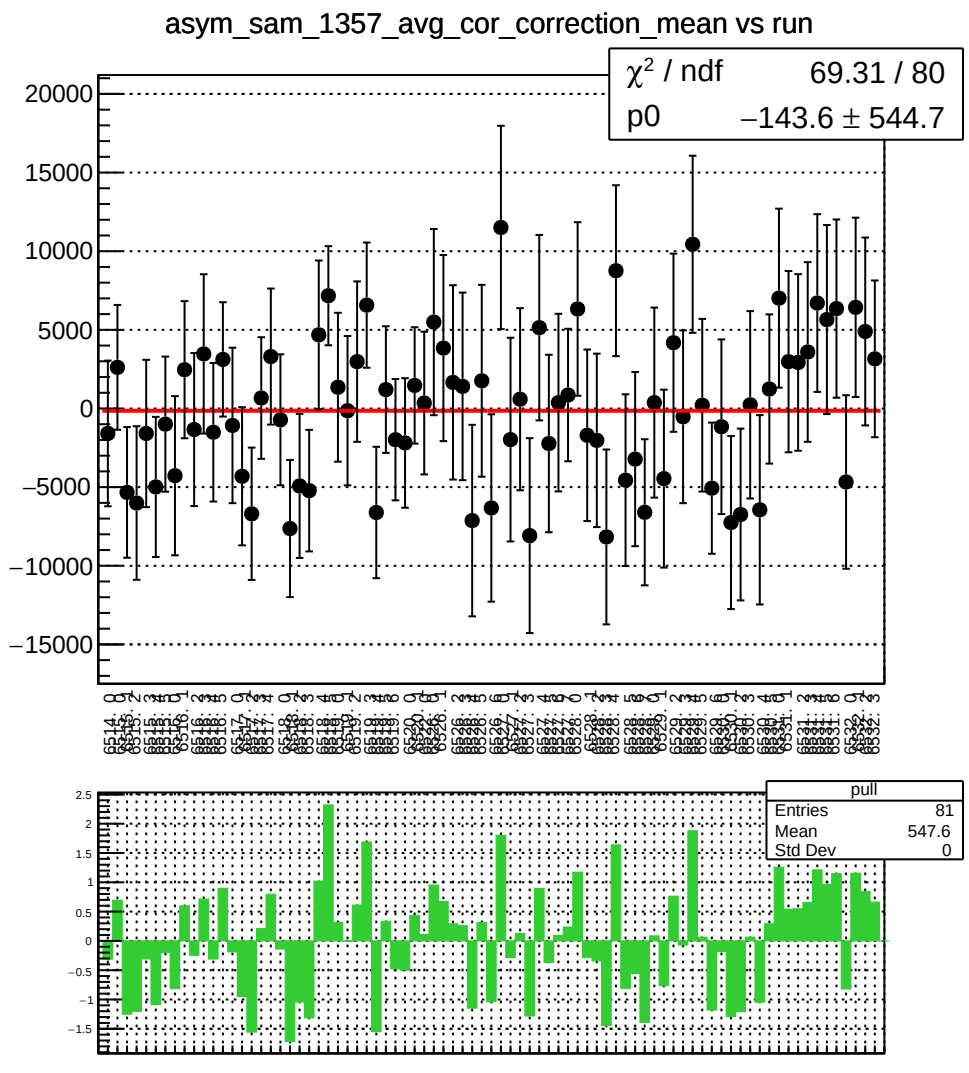

pull1D
Entries 81
Mean 0.008184
Std Dev 0.925

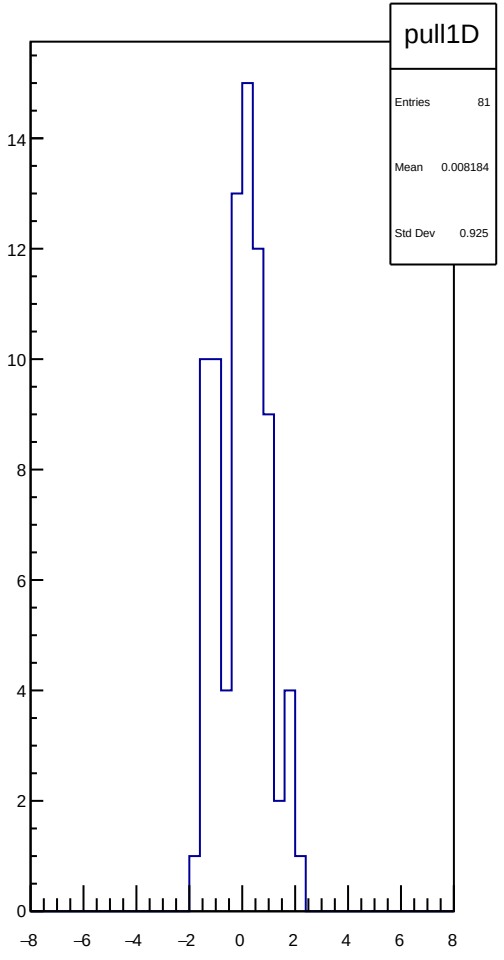

asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 3.48e+04 / 80
p0 475.8 ± 0.3851
600
550
500
450
400
350

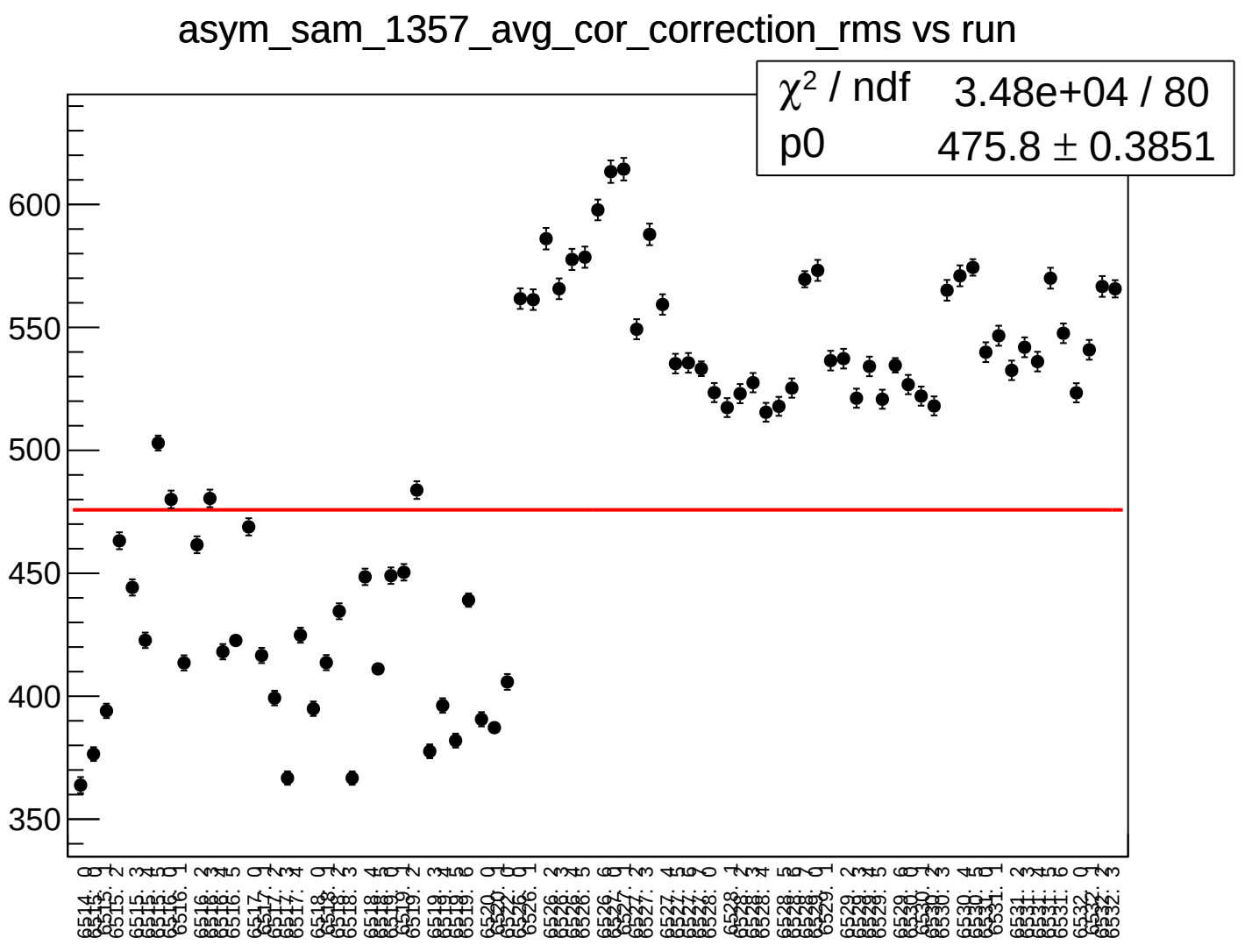

cor_asym_sam_1357_avg_mean vs run
χ² / ndf 97.84 / 80
p0 143 ± 70.37
pull
Entries 81
Mean 190.7
Std Dev 0

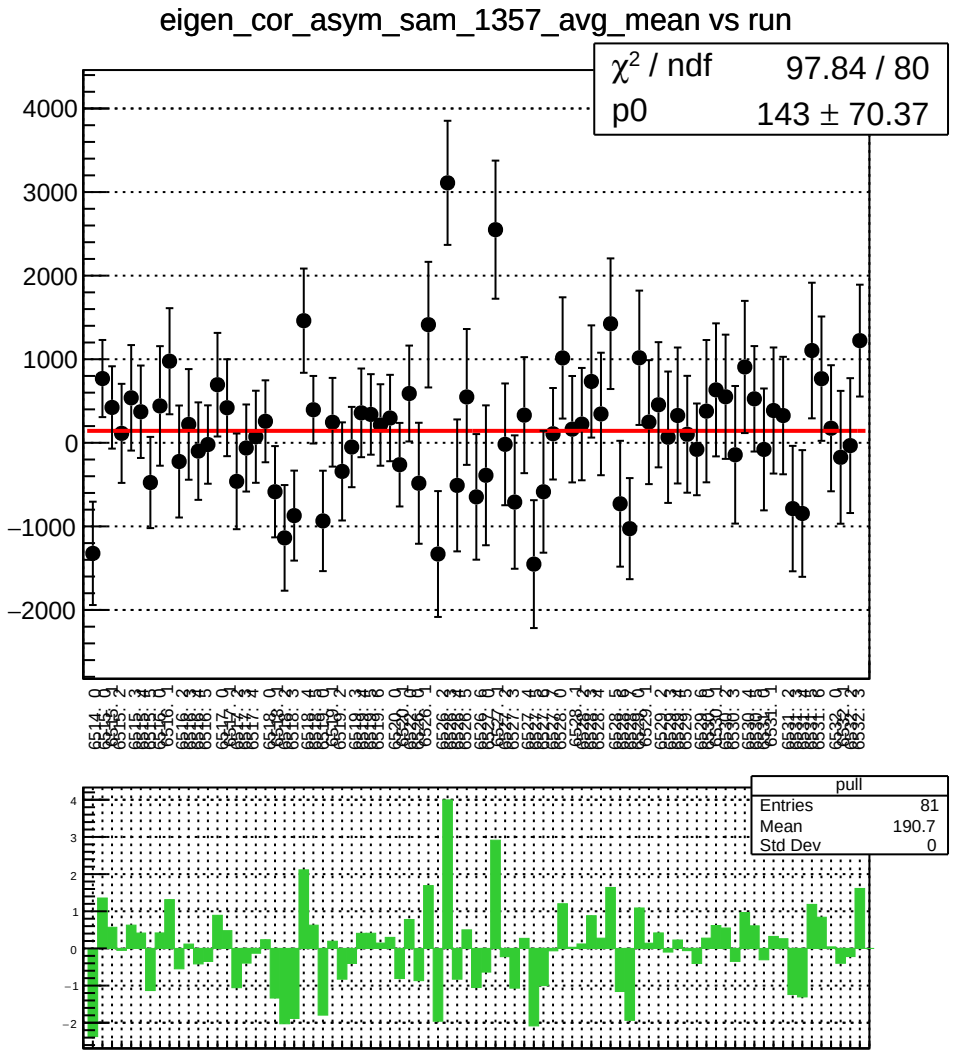

pull1D
Entries 81
Mean 0.01591
Std Dev 1.099

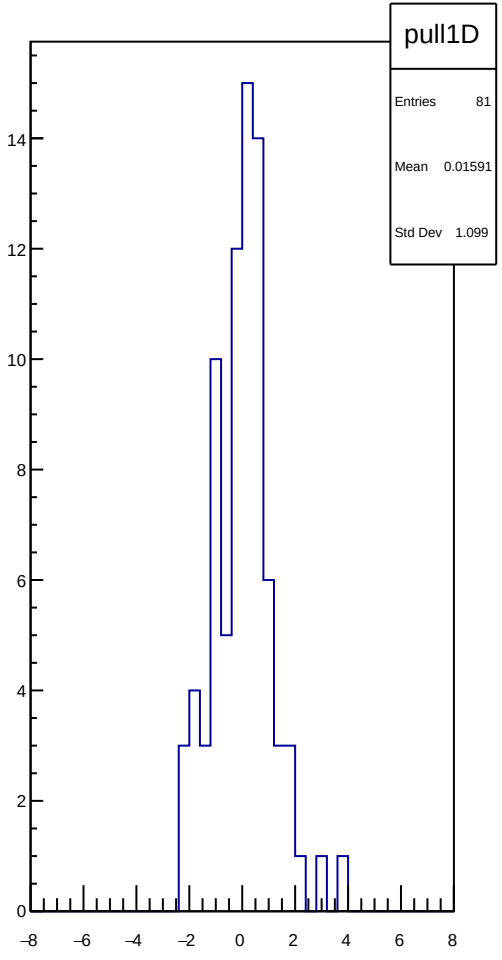

cor_asym_sam_1357_avg_rms vs run
χ² / ndf 4.456e+04 / 80
p0 61.27 ± 0.04976
85
80
75
70
65
60
55
50
45
40

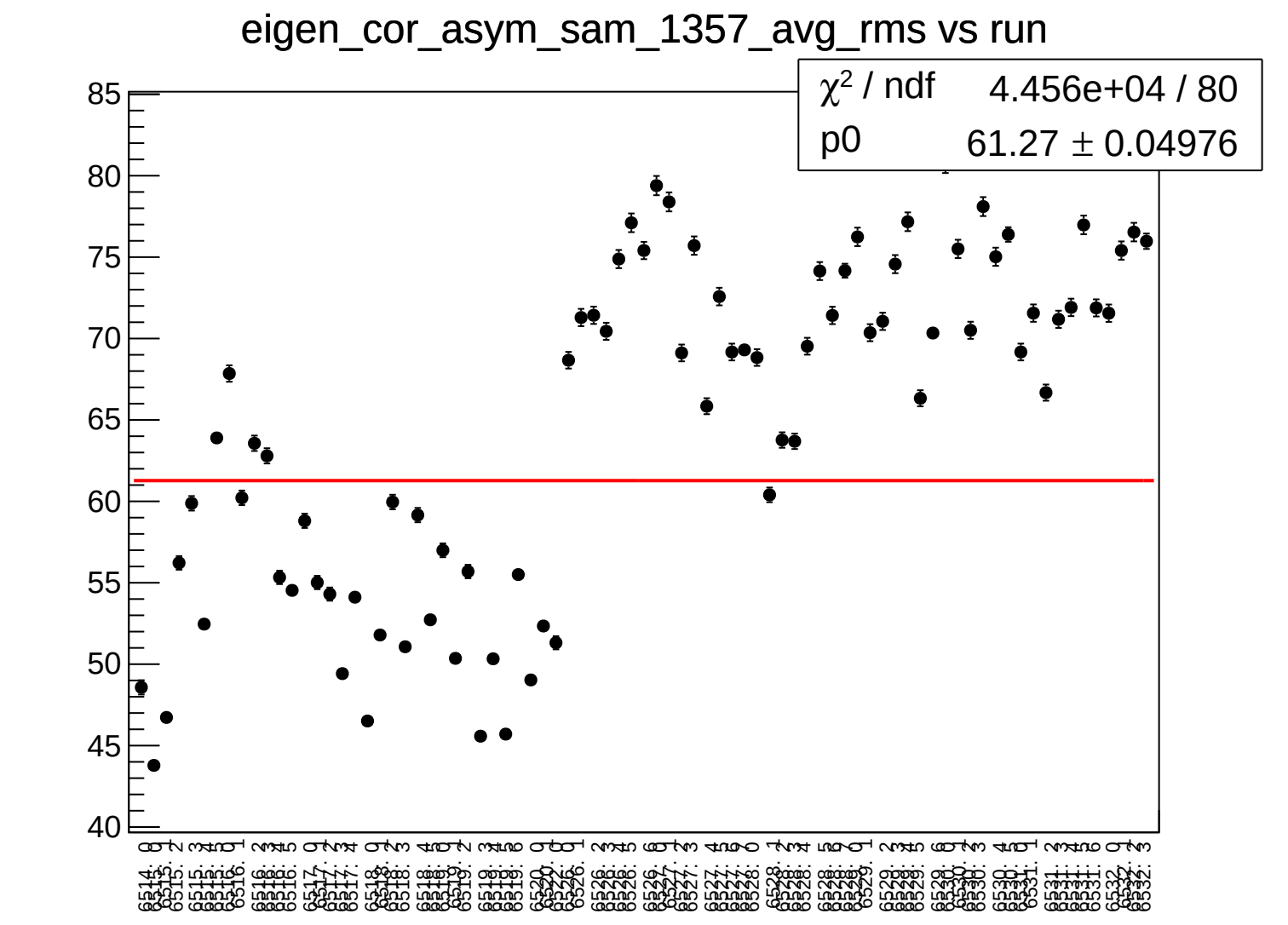

asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 69.31 / 80
p0 −143.6 ± 544.7
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean 547.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

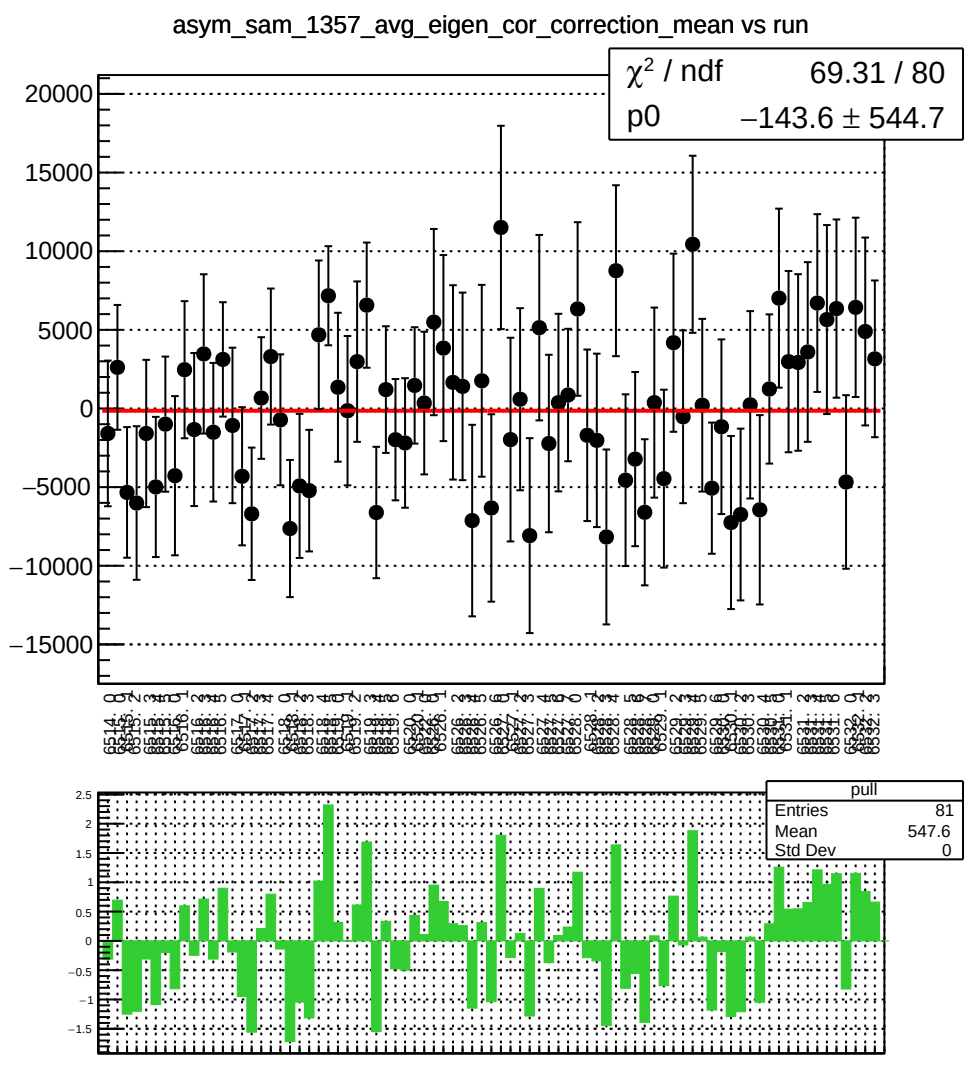

pull1D
Entries 81
Mean 0.008184
Std Dev 0.925
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

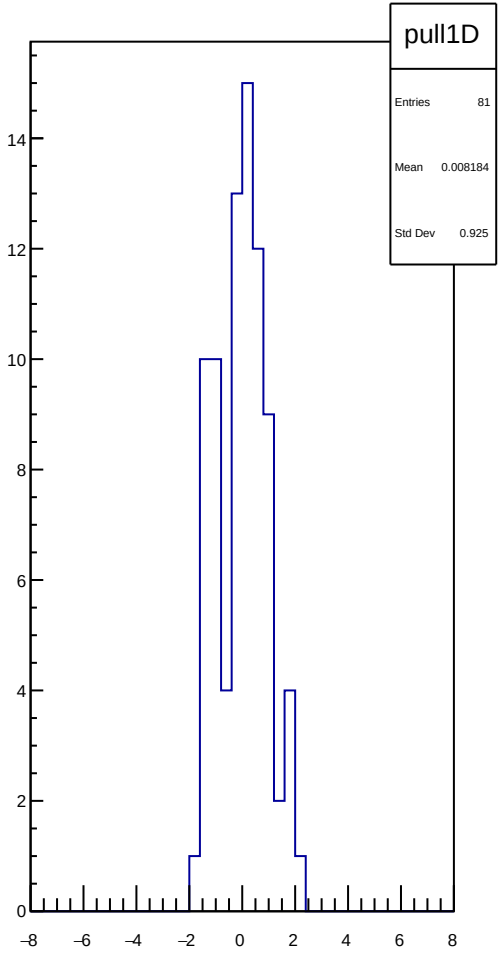

asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 3.48e+04 / 80
p0 475.8 ± 0.3851
600
550
500
450
400
350

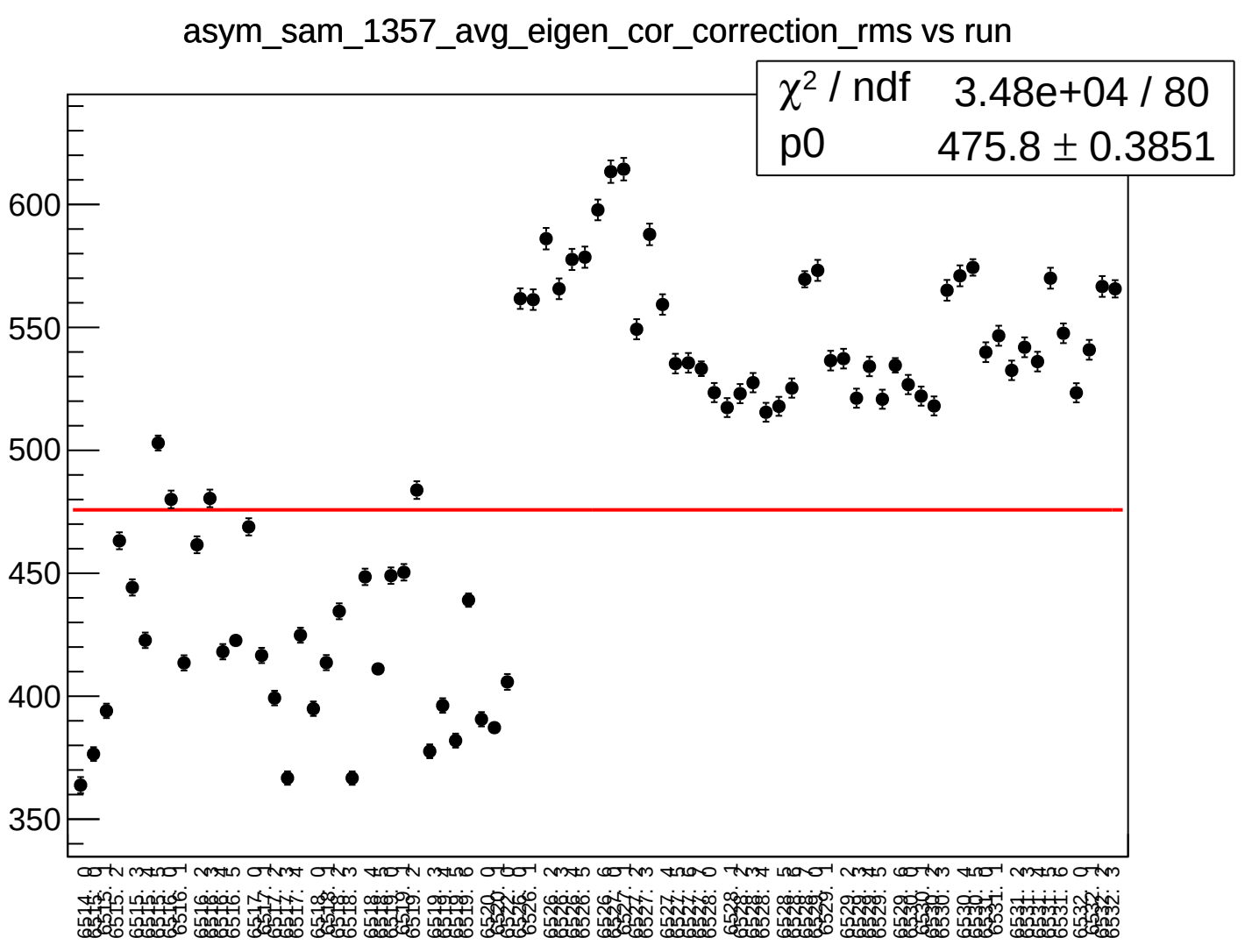

eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 97.84 / 80
p0 143 ± 70.37
pull
Entries 81
Mean 190.7
Std Dev 0

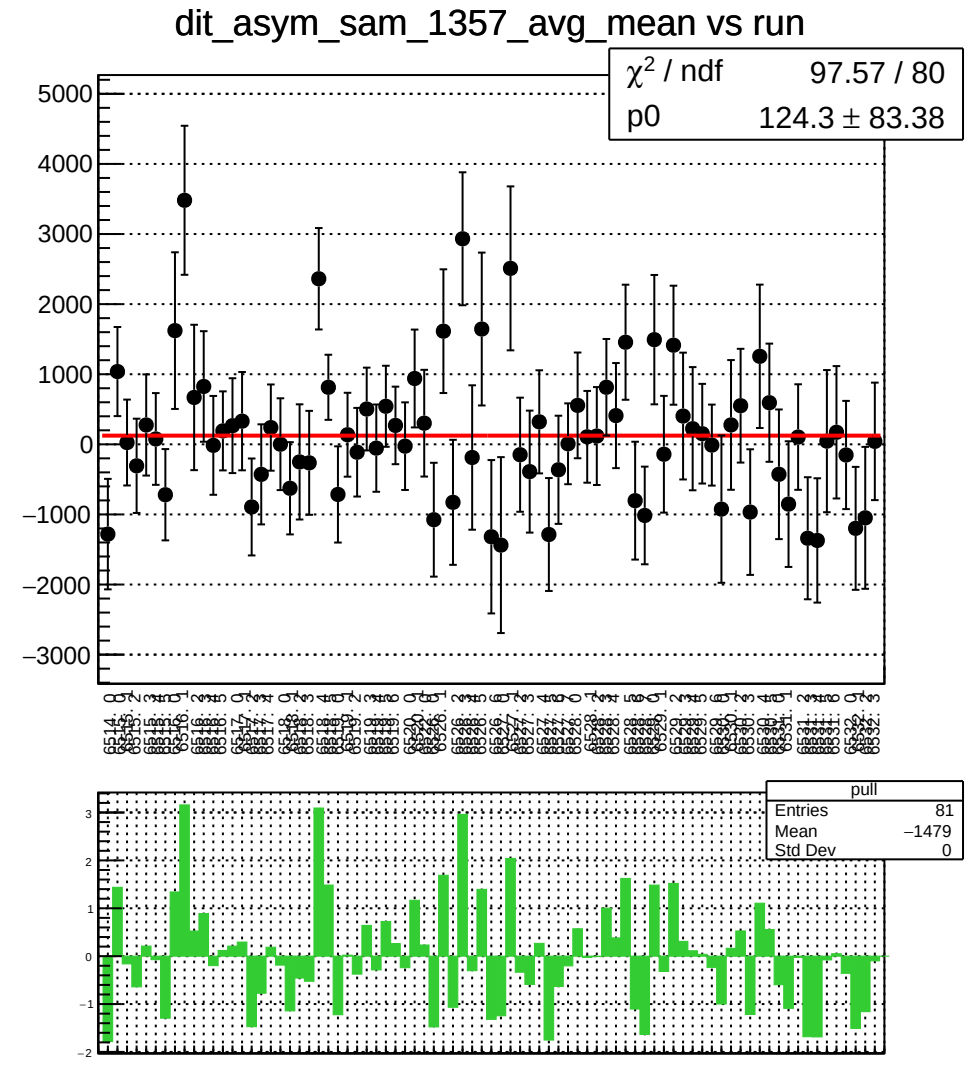

pull1D
Entries 81
Mean 0.01591
Std Dev 1.099

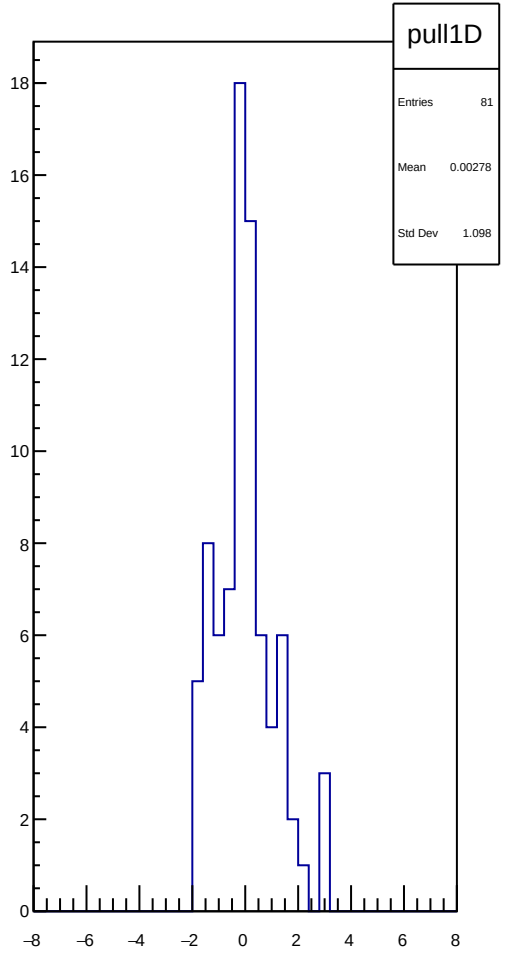

eigen_cor_asym_sam_1357_avg_rms vs run
χ² / ndf 4.456e+04 / 80
p0 61.27 ± 0.04976
85
80
75
70
65
60
55
50
45
40

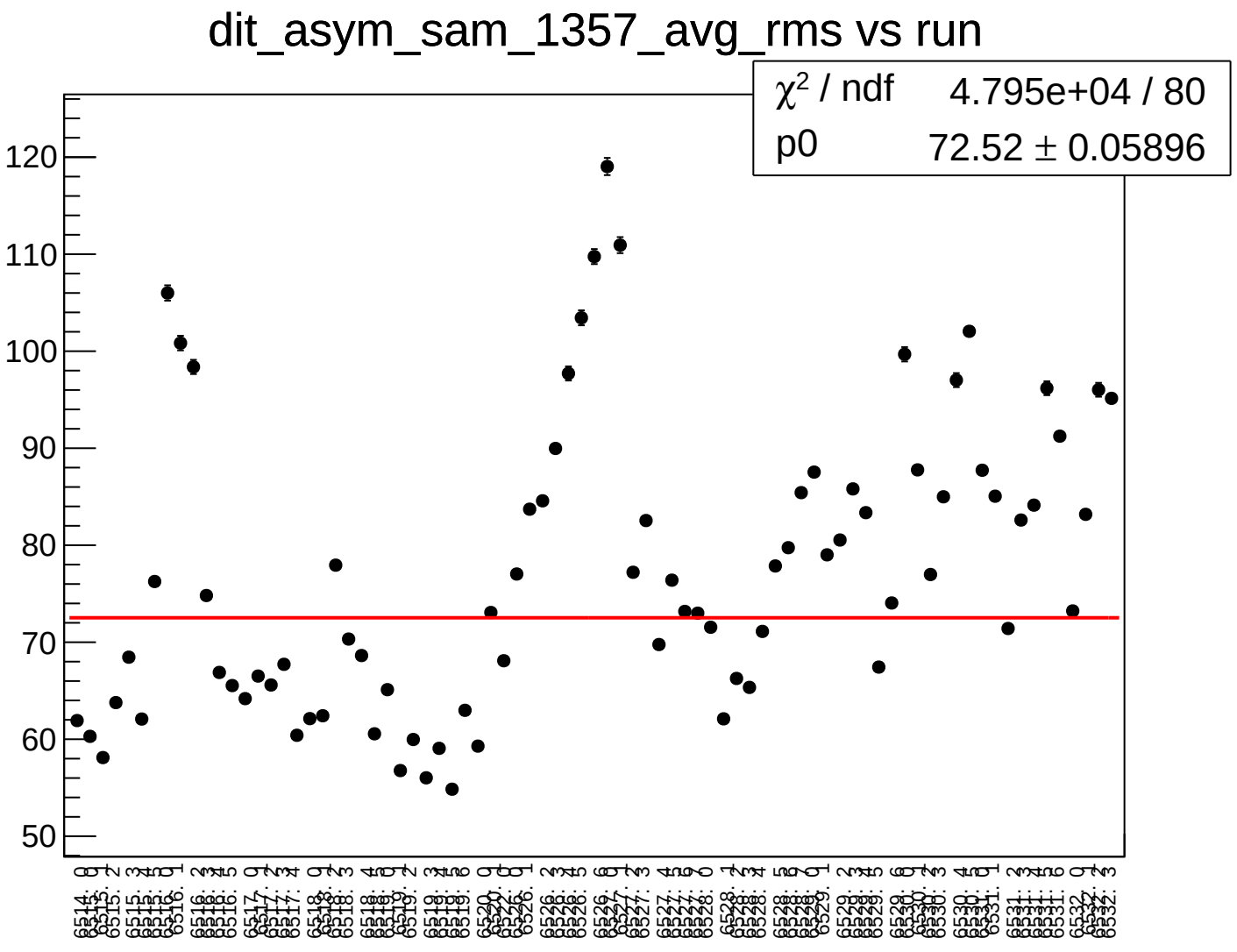

asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 69.31 / 80
p0 −143.6 ± 544.7
pull
Entries 81
Mean 547.6
Std Dev 0

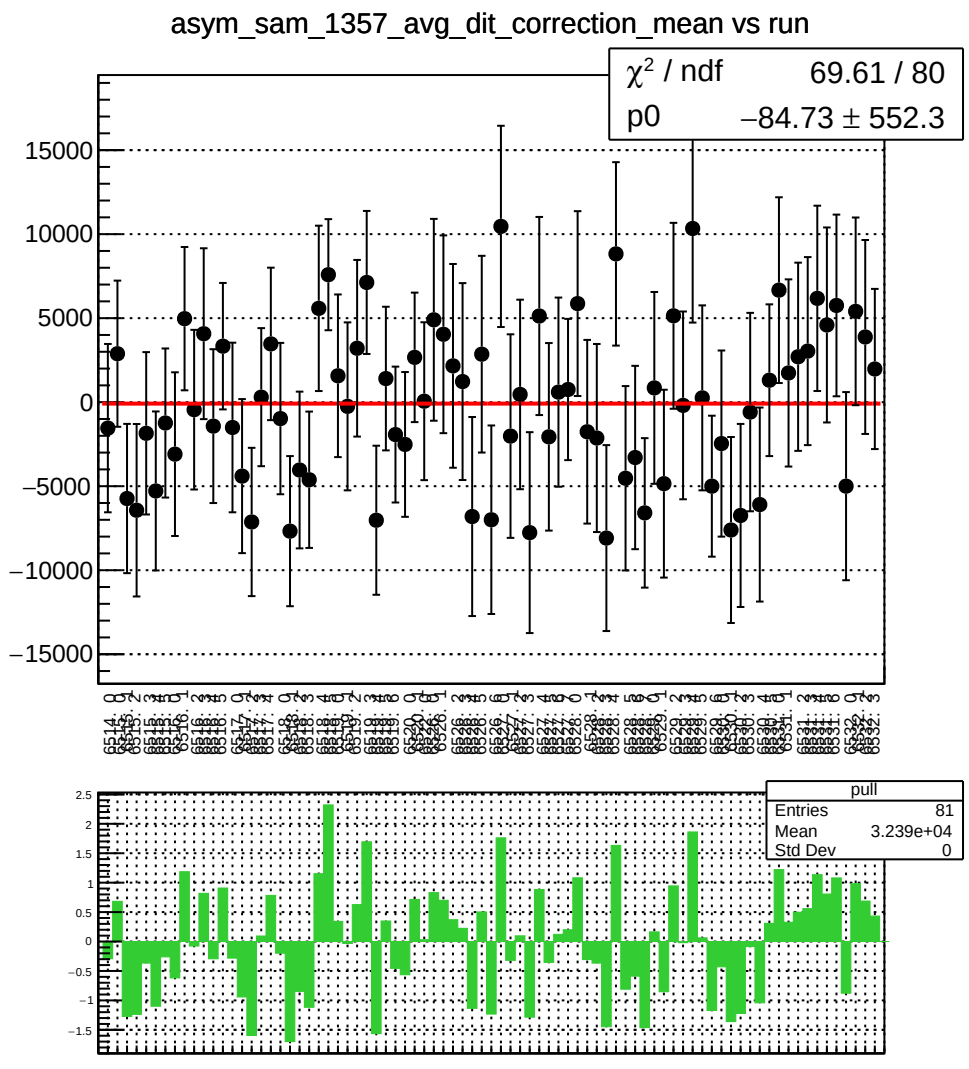

pull1D
Entries 81
Mean 0.008184
Std Dev 0.925

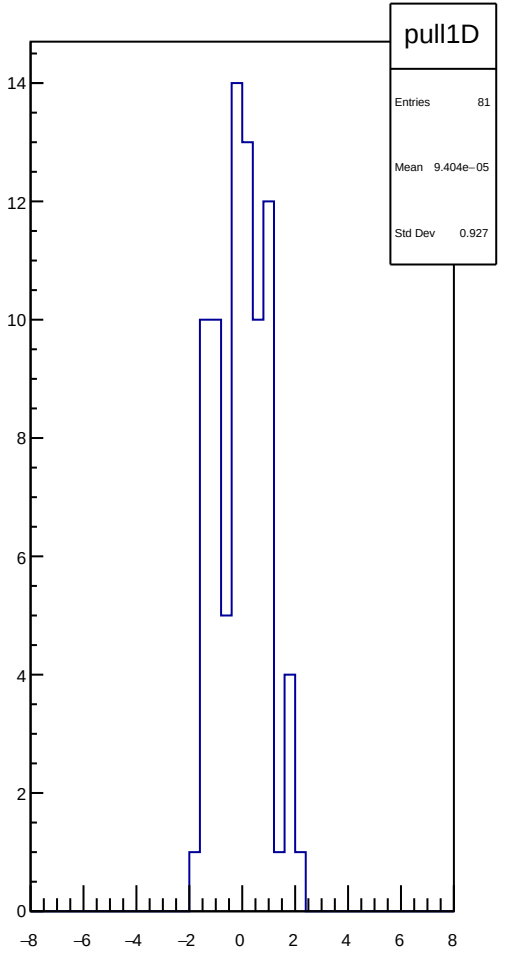

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.48e+04 / 80
p0 475.8 ± 0.3851
600
550
500
450
400
350

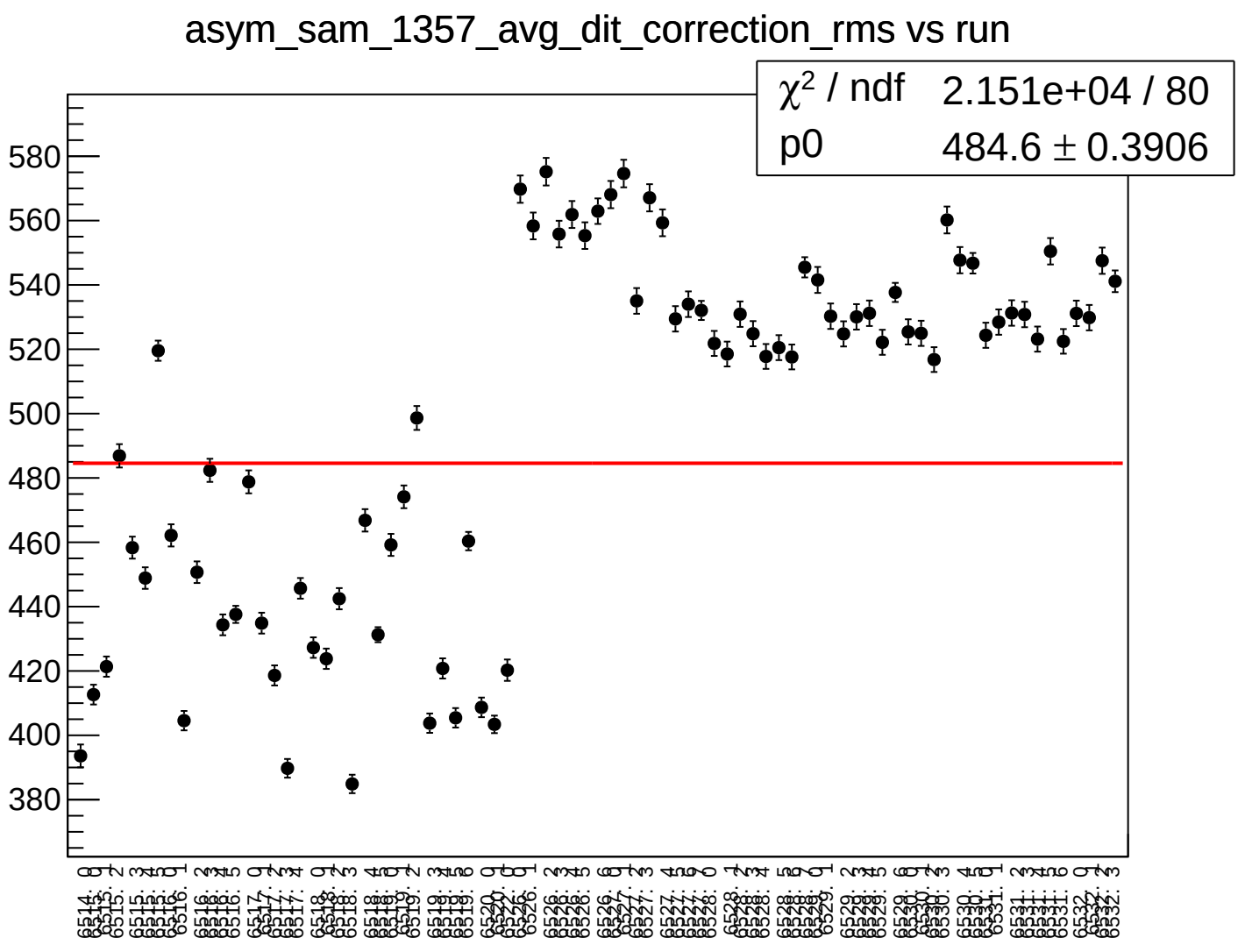

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 97.57 / 80
p0 124.3 ± 83.38
pull
Entries 81
Mean −1479
Std Dev 0

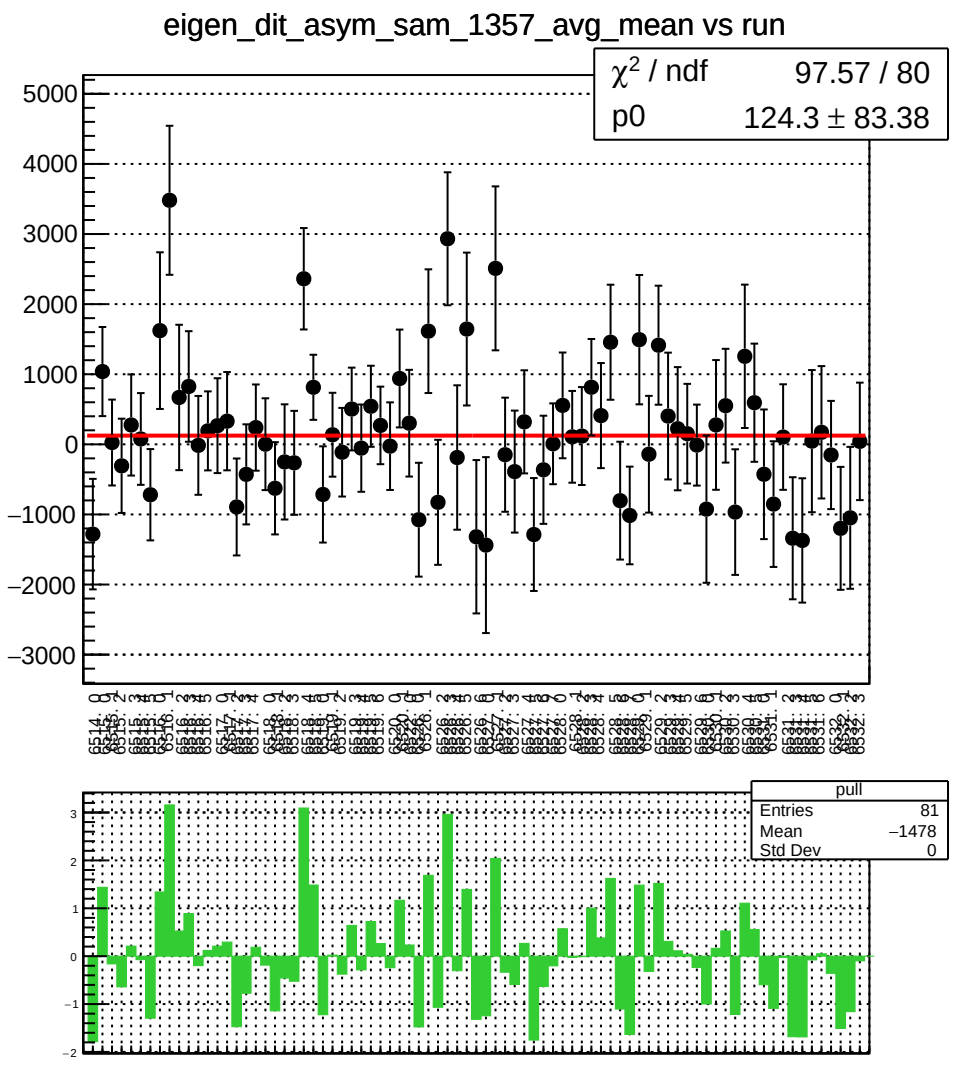

pull1D
Entries 81
Mean 0.00278
Std Dev 1.098

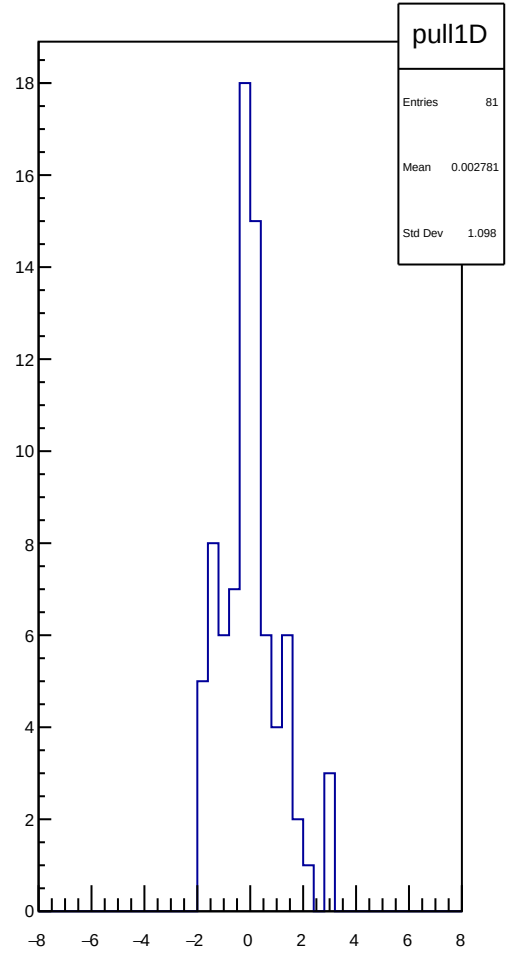

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 4.795e+04 / 80
p0 72.52 ± 0.05896
120
110
100
90
80
70
60
50

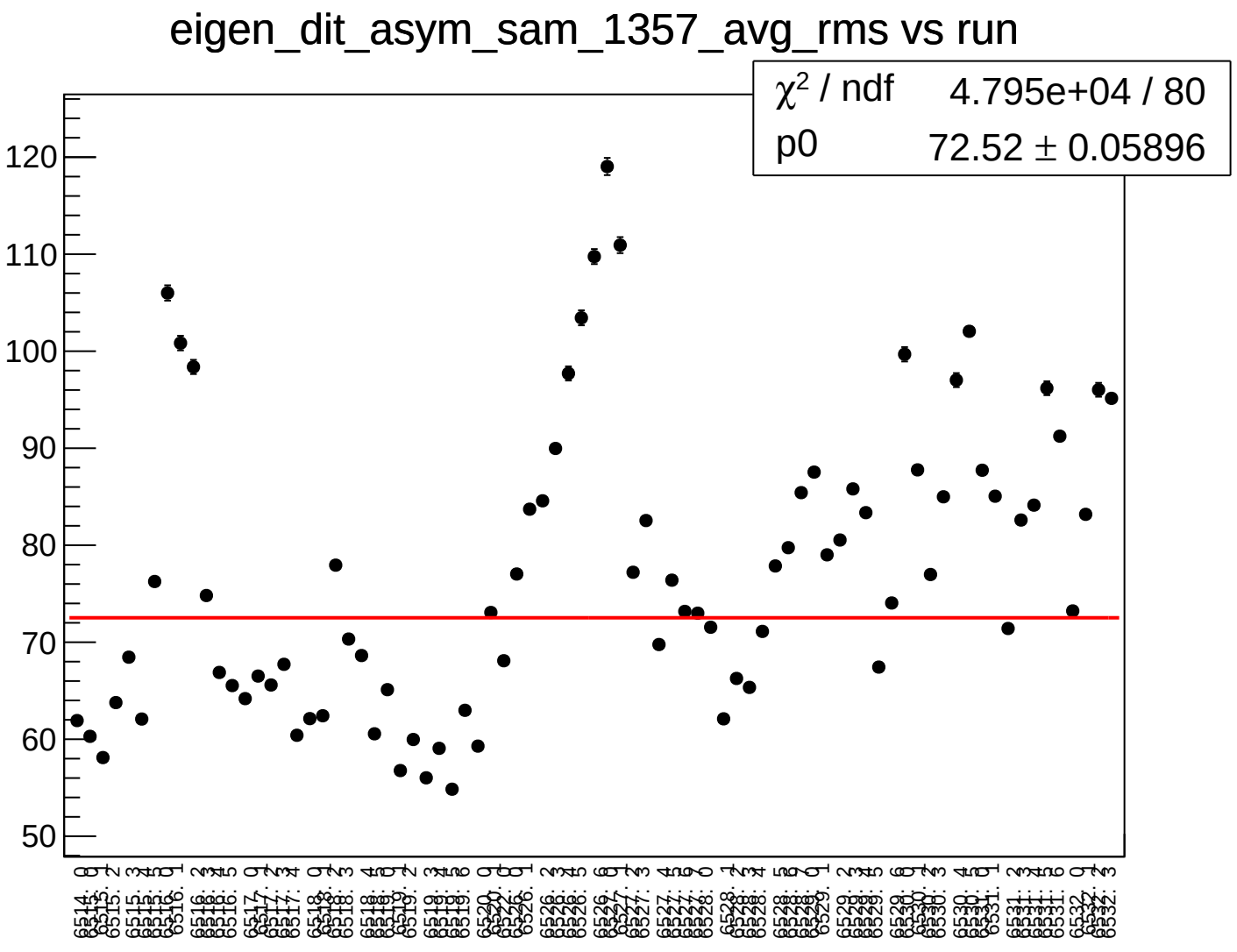

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 69.61 / 80
p0 −84.73 ± 552.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean 3.239e+04
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

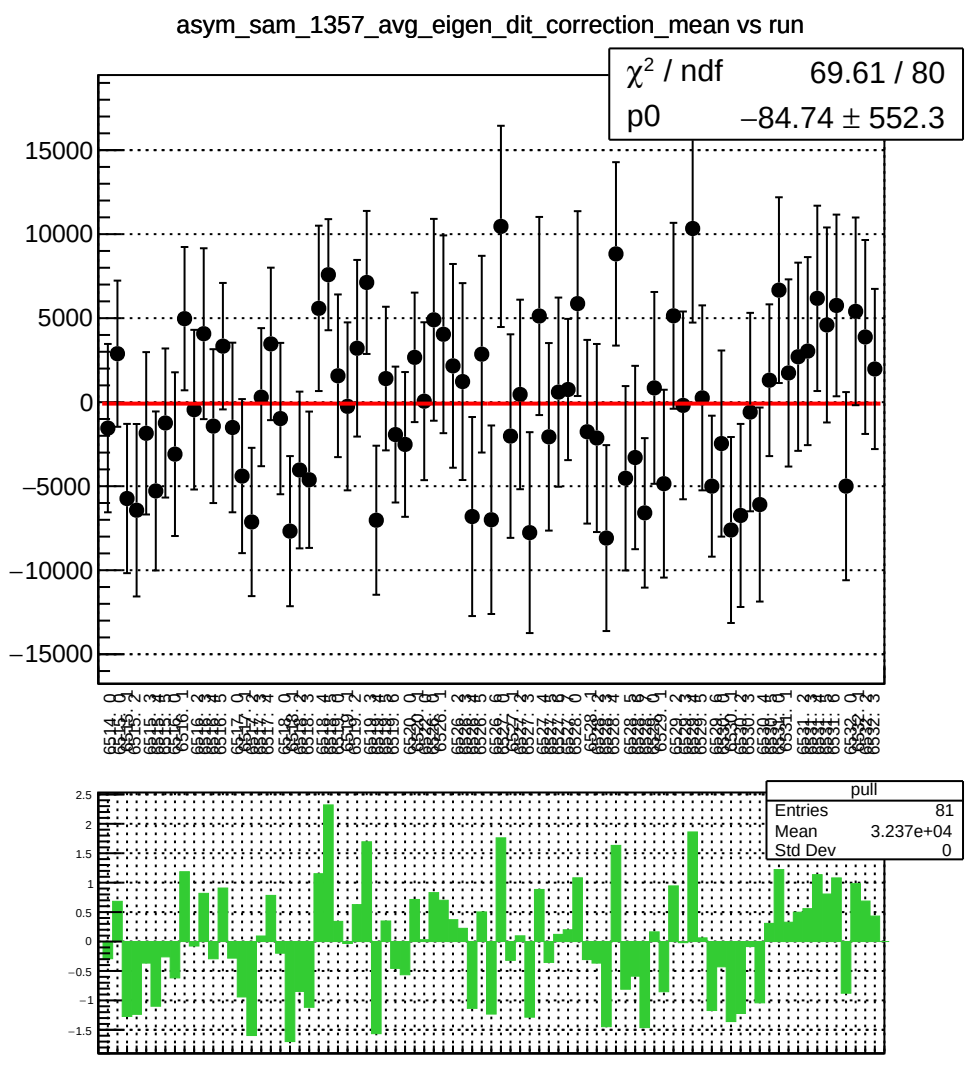

pull1D
Entries 81
Mean 9.404e−05
Std Dev 0.927
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

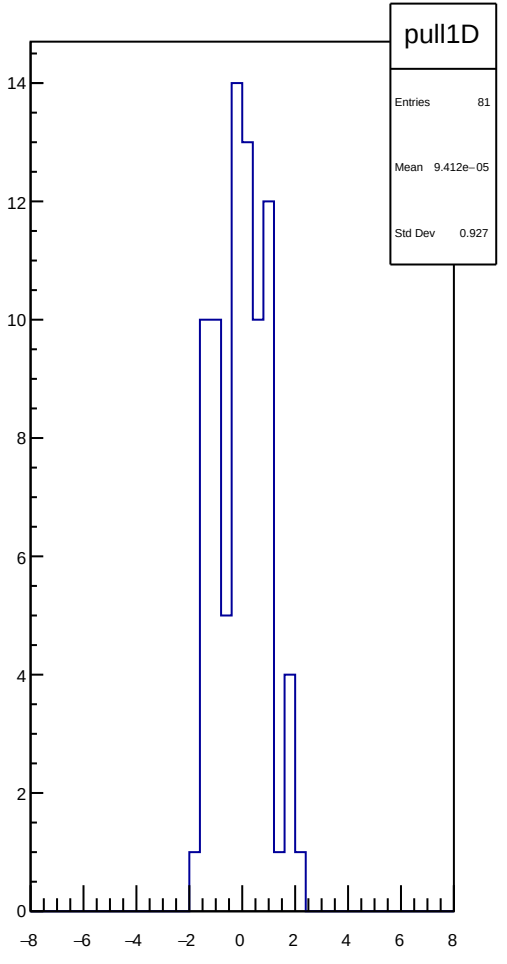

asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 2.151e+04 / 80
p0 484.6 ± 0.3906
580
560
540
520
500
480
460
440
420
400
380

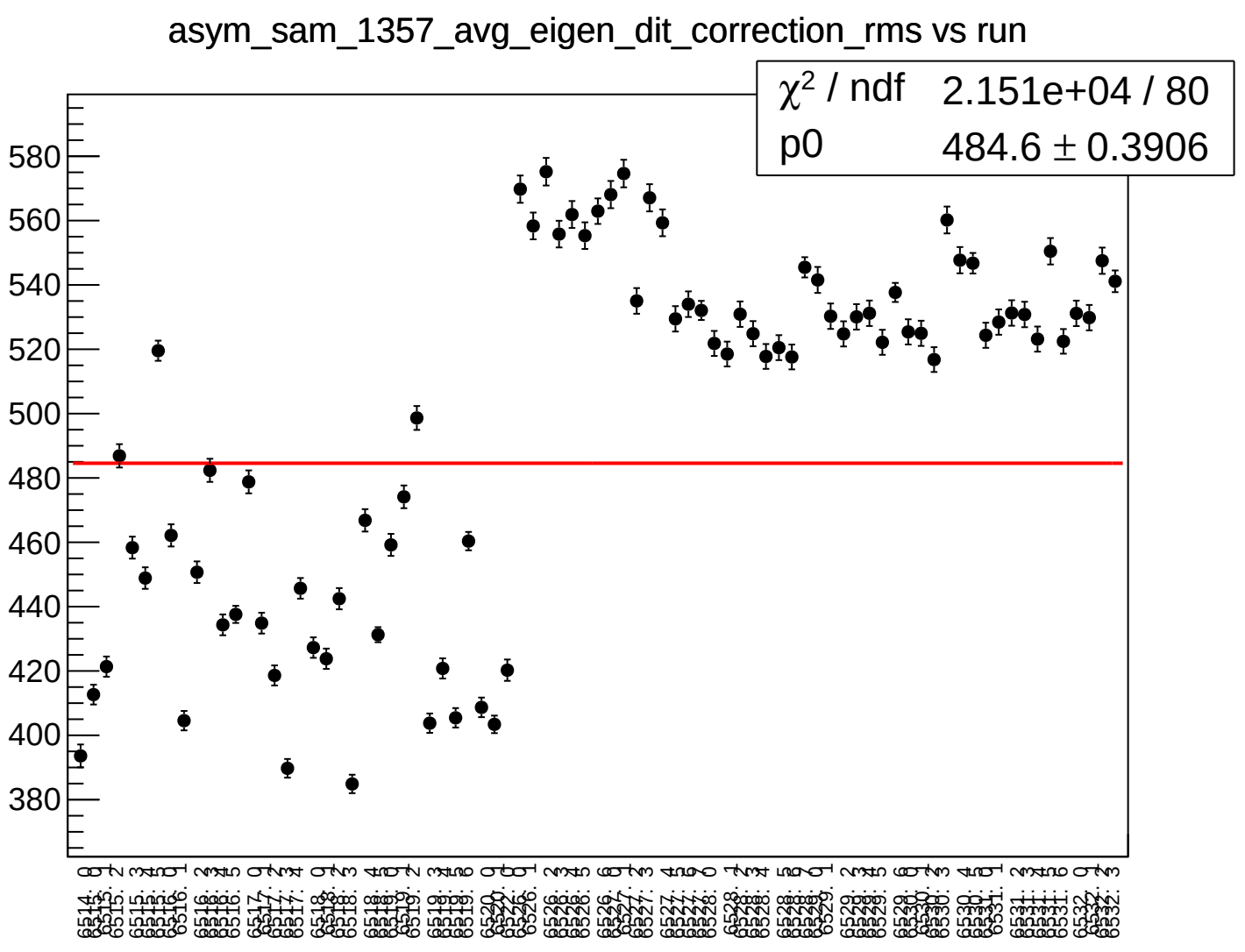

eigen_dit_asym_sam_1357_avg_mean vs run
χ^2 / ndf 97.57 / 80
p0 124.3 ± 83.38
pull
Entries 81
Mean −1478
Std Dev 0

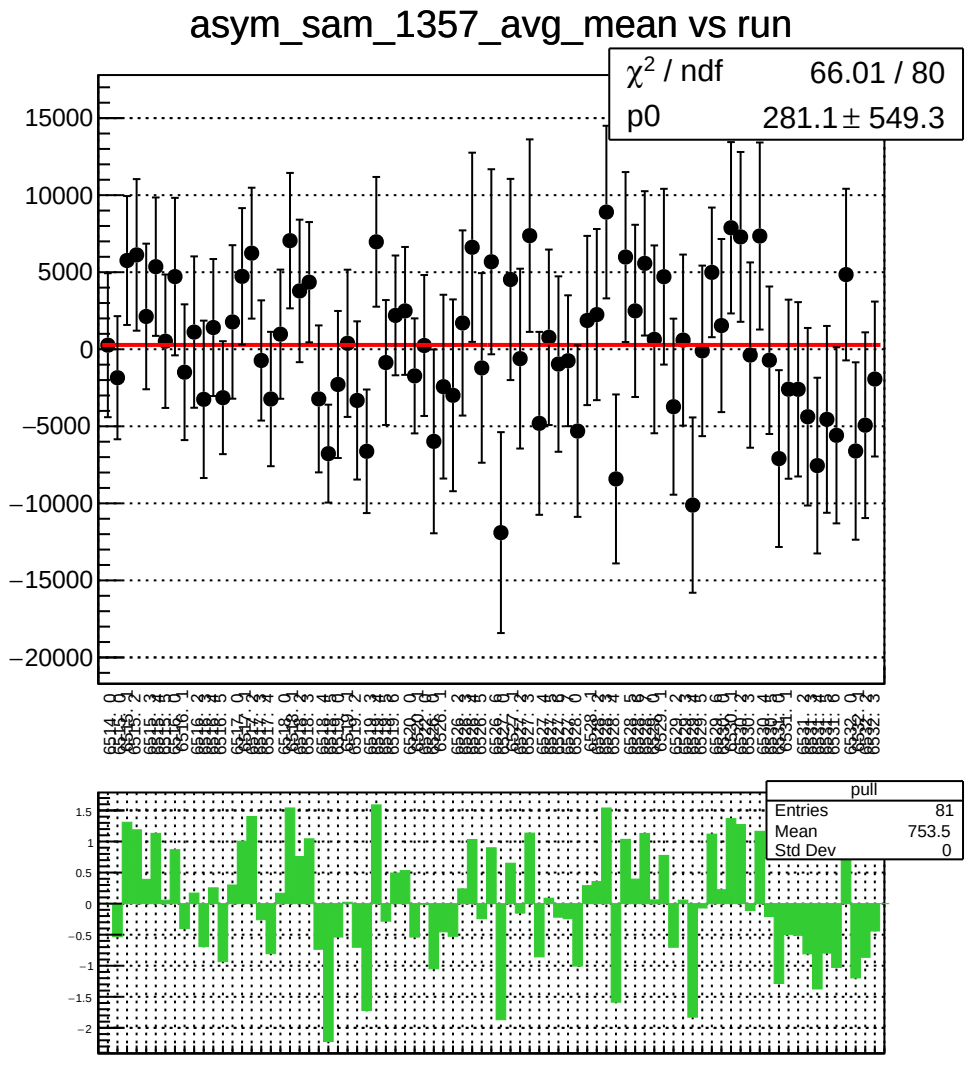

pull1D
Entries 81
Mean 0.002781
Std Dev 1.098

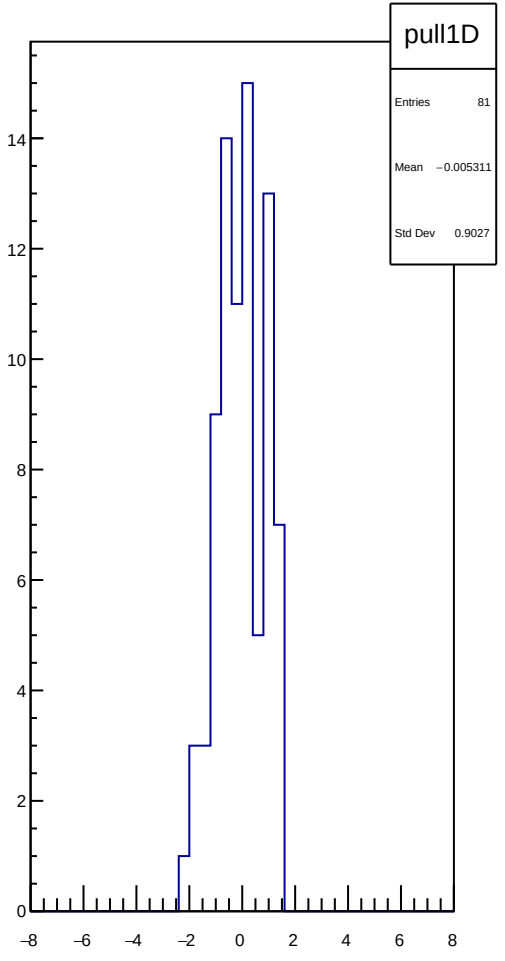

eigen_dit_asym_sam_1357_avg_rms vs run
χ² / ndf 4.795e+04 / 80
p0 72.52 ± 0.05896
120
110
100
90
80
70
60
50

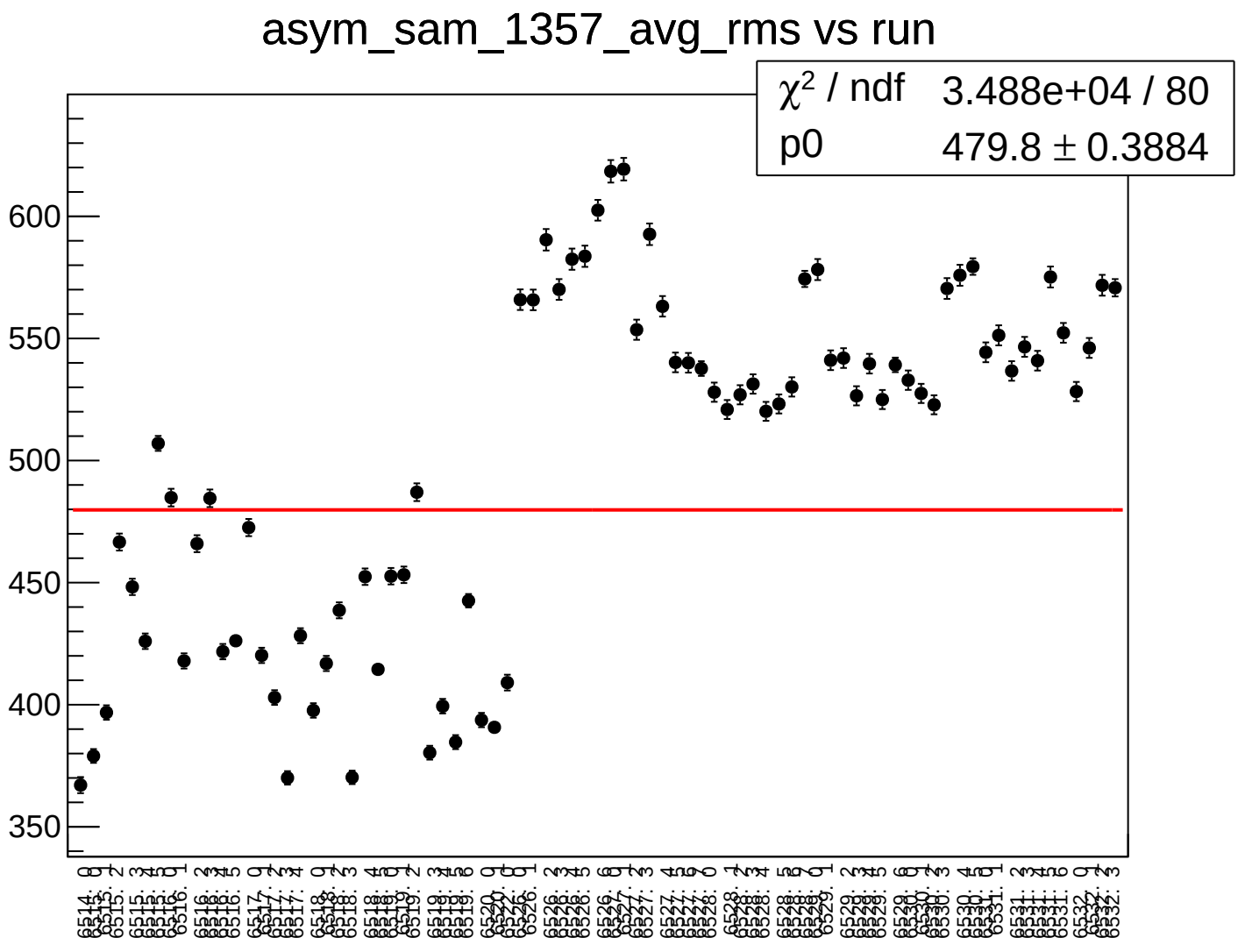

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 69.61 / 80
p0 −84.74 ± 552.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean 3.237e+04
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

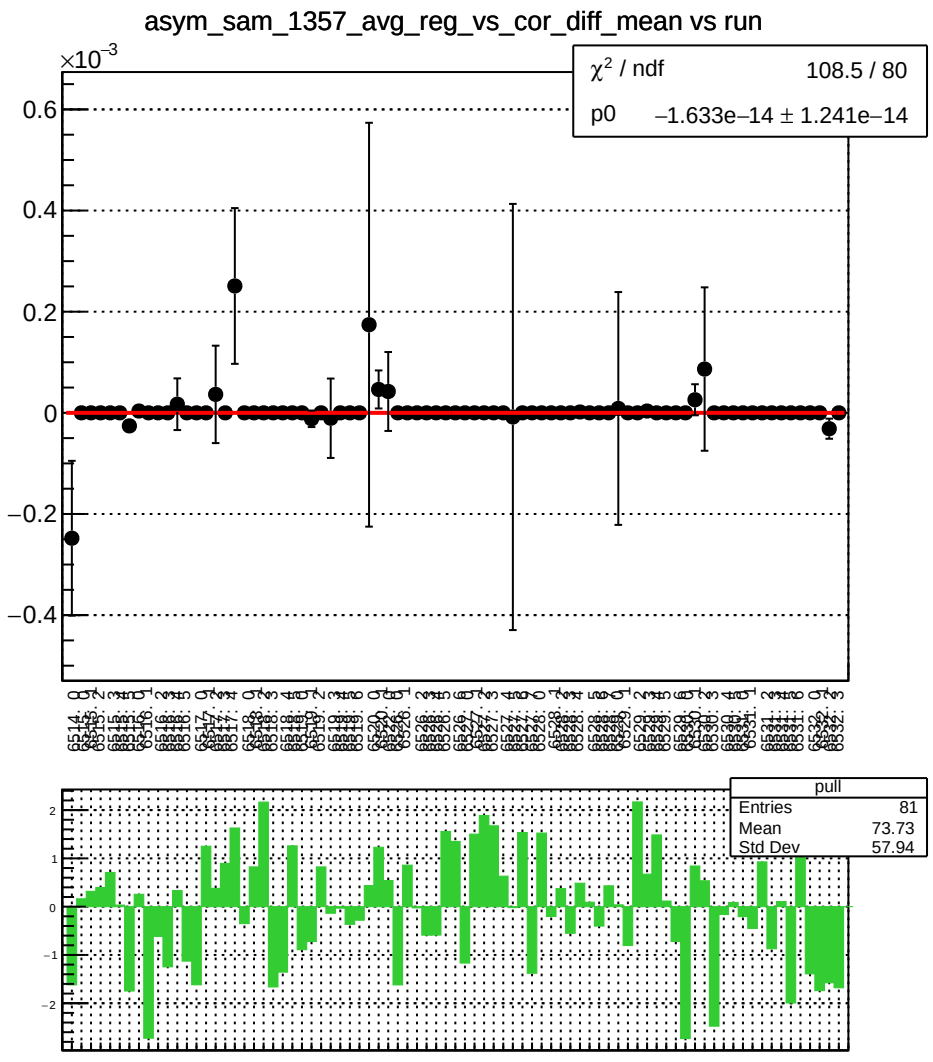

pull1D
Entries 81
Mean 9.412e−05
Std Dev 0.927
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

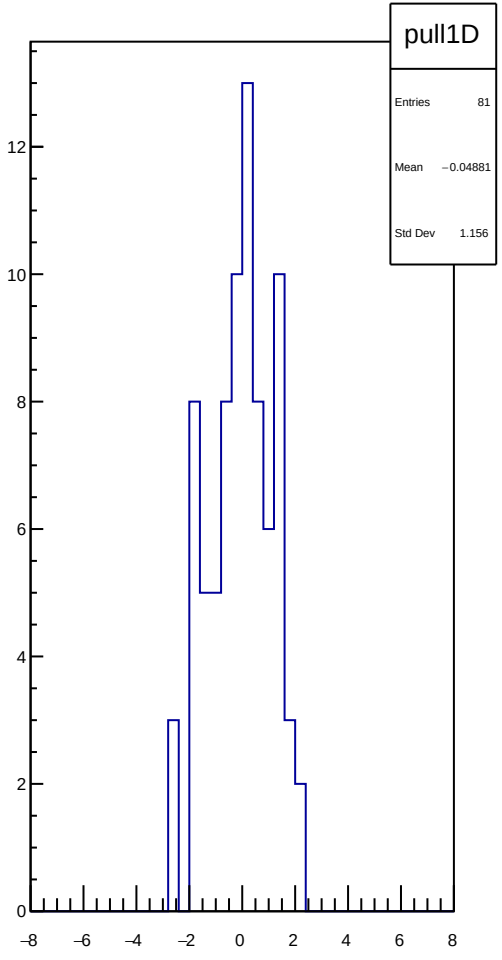

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.151e+04 / 80
p0 484.6 ± 0.3906
580
560
540
520
500
480
460
440
420
400
380

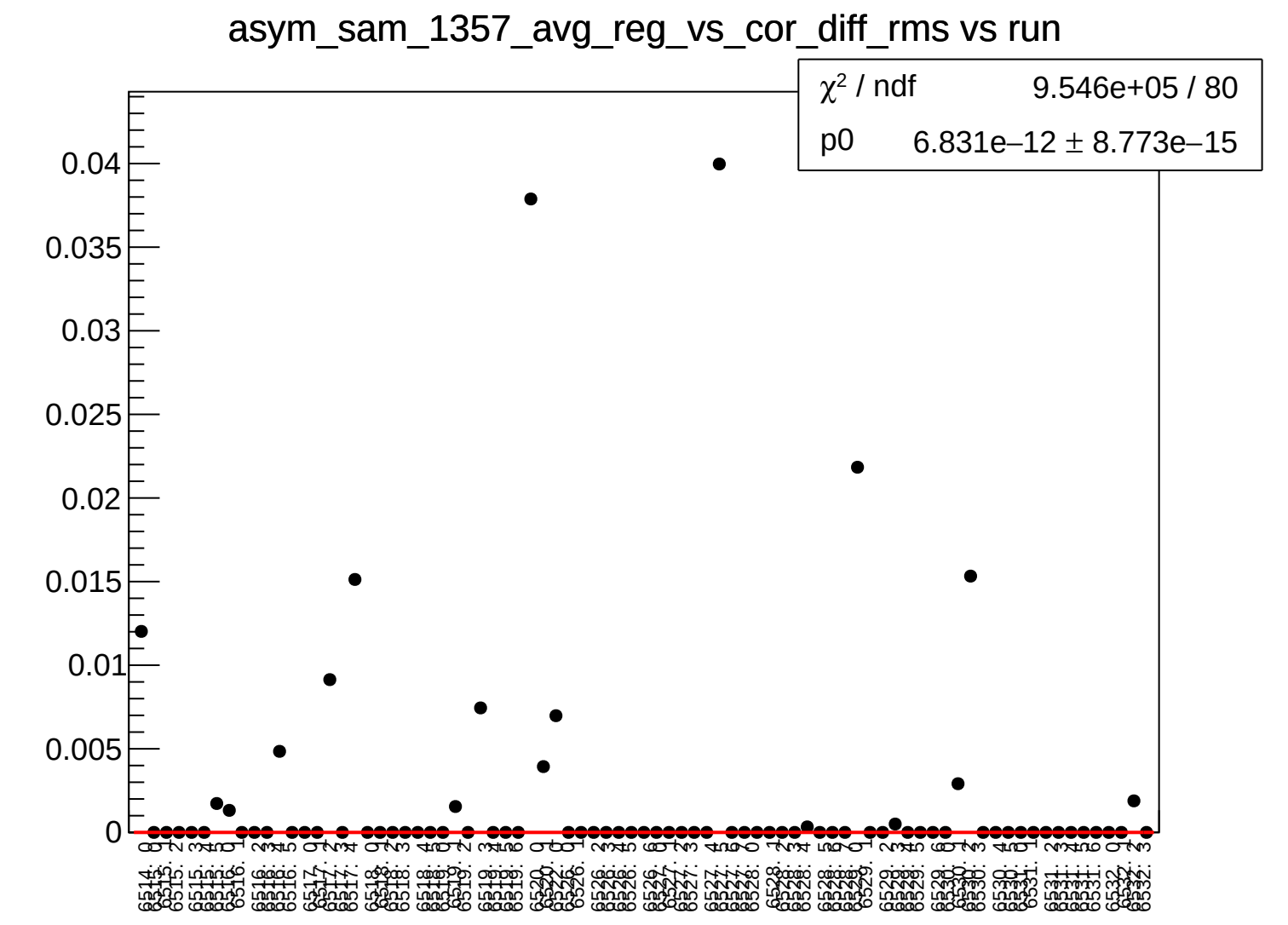

asym_sam_1357_avg_mean vs run
χ² / ndf 66.01 / 80
p0 281.1 ± 549.3
pull
Entries 81
Mean 753.5
Std Dev 0

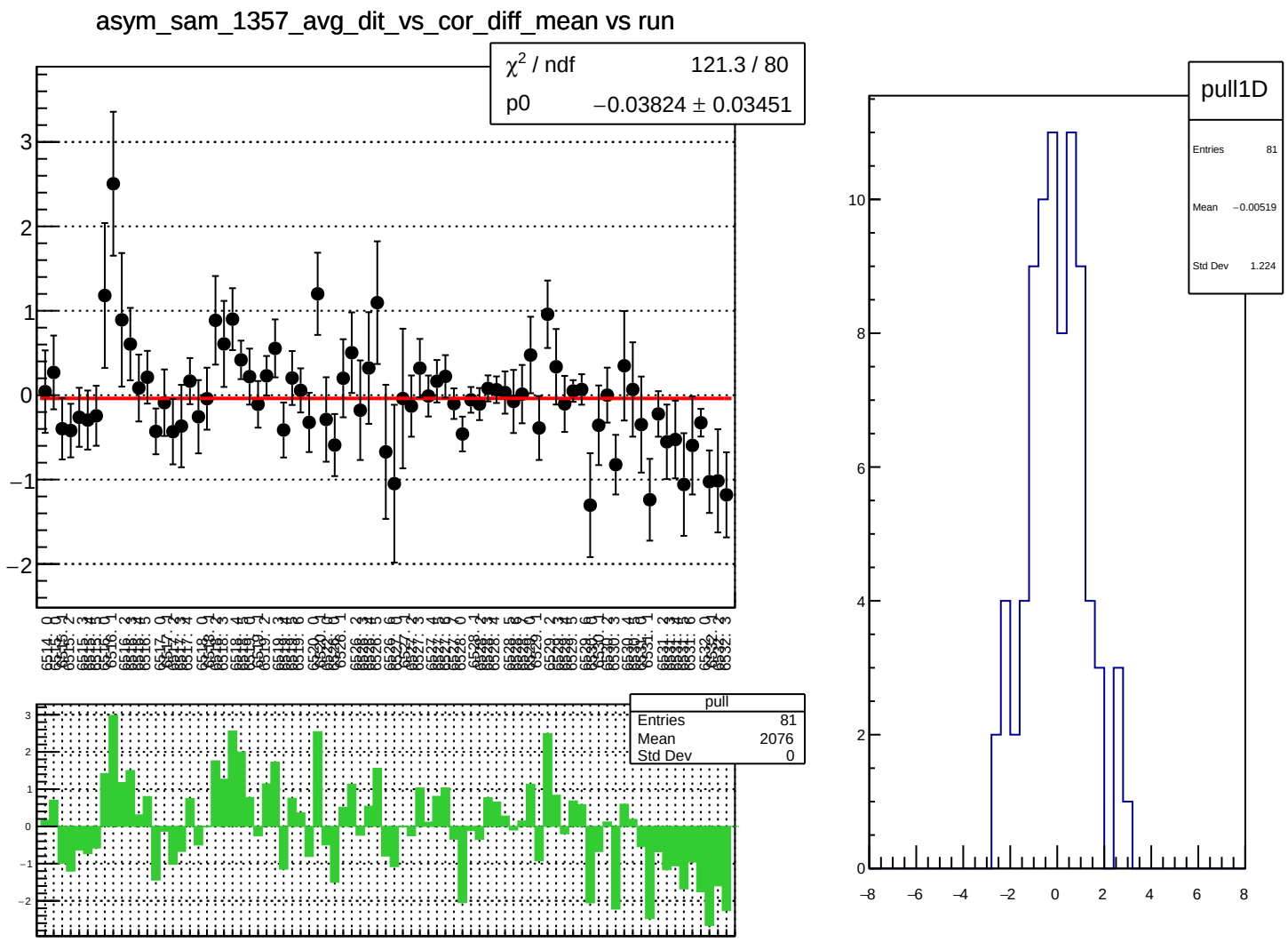

pull1D
Entries 81
Mean −0.005311
Std Dev 0.9027

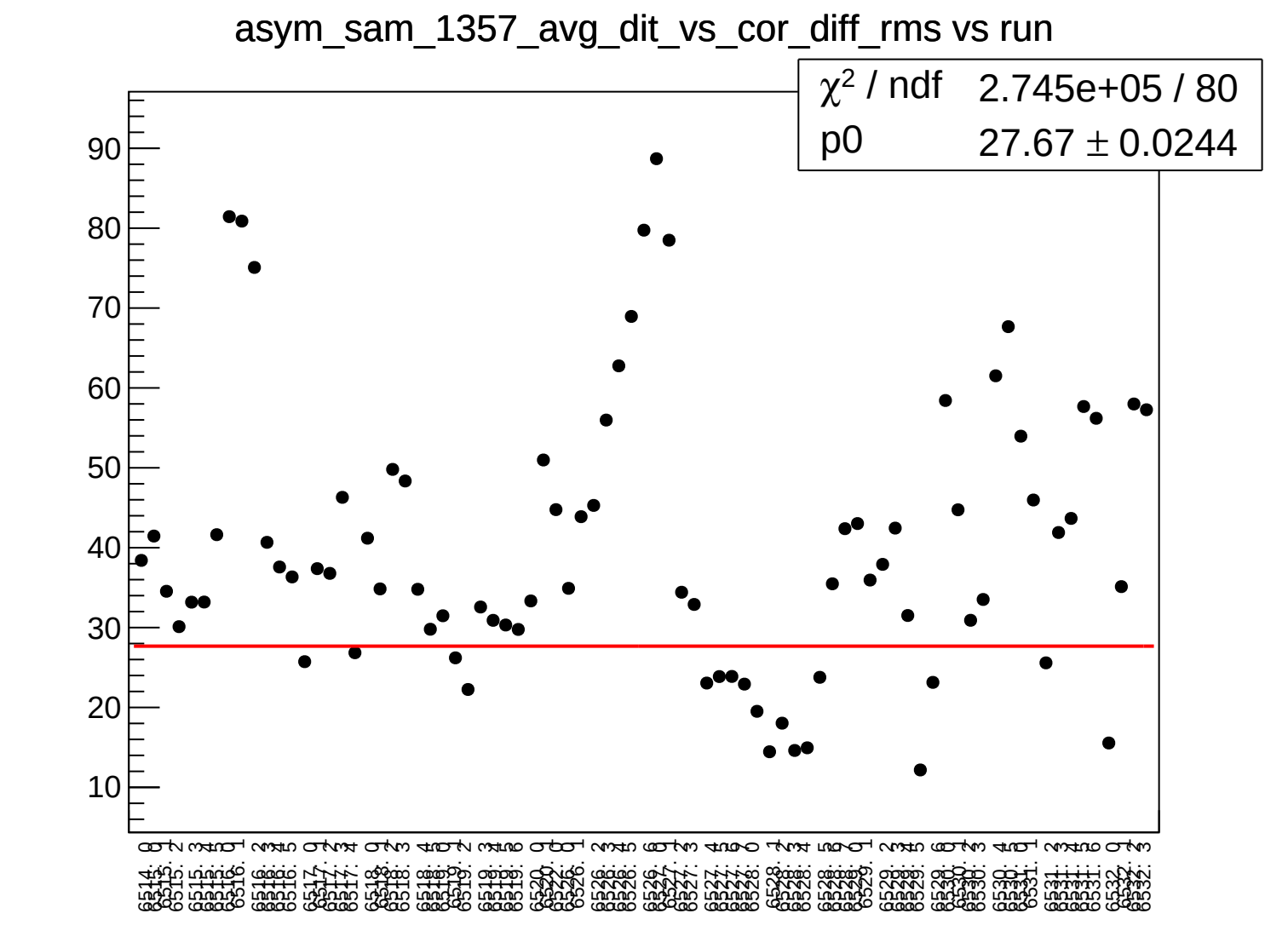

asym_sam_1357_avg_rms vs run
χ^2 / ndf 3.488e+04 / 80
p0 479.8 ± 0.3884
600
550
500
450
400
350

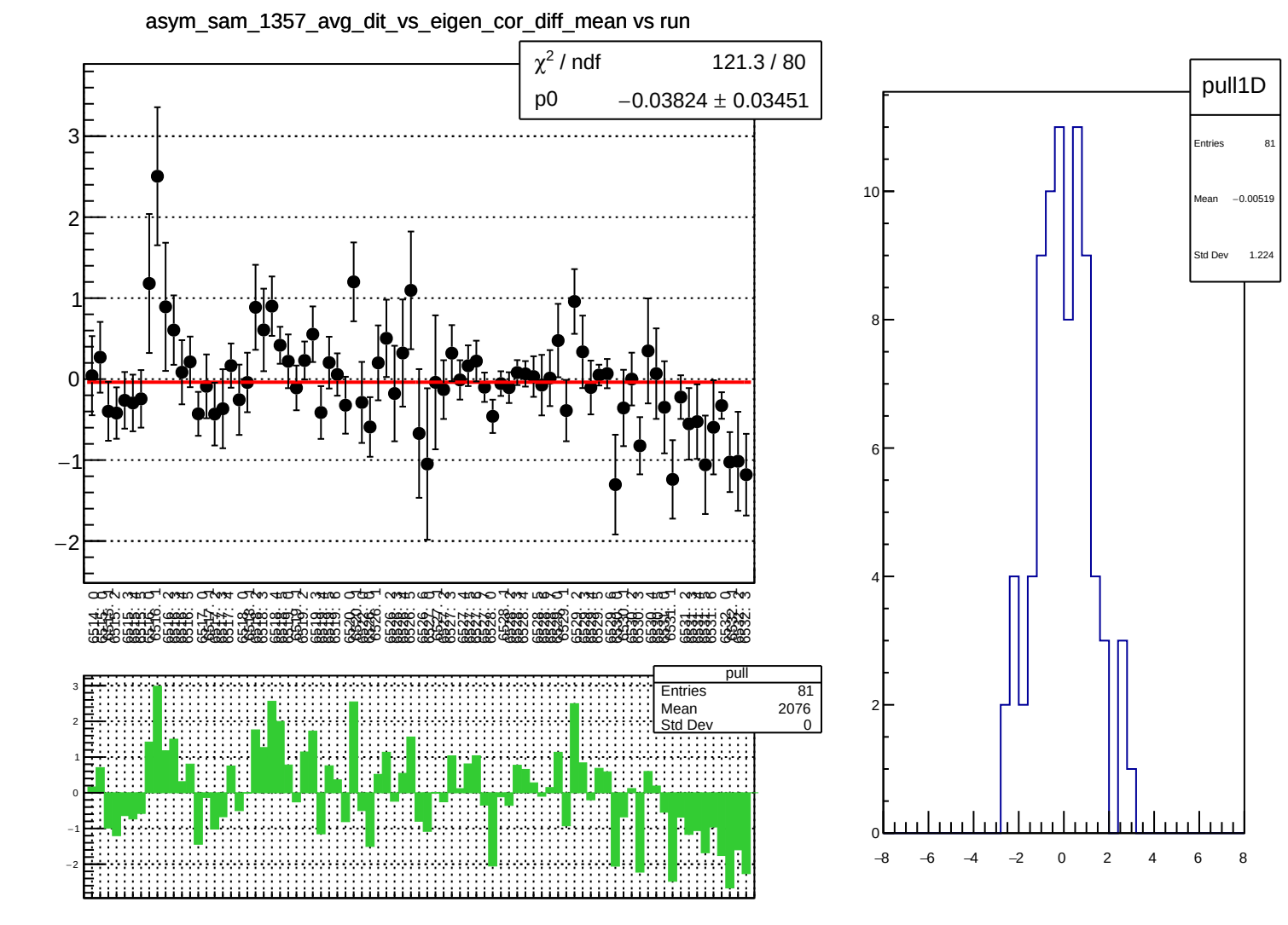

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 108.5 / 80
p0 −1.633e−14 ± 1.241e−14
pull
Entries 81
Mean 73.73
Std Dev 57.94

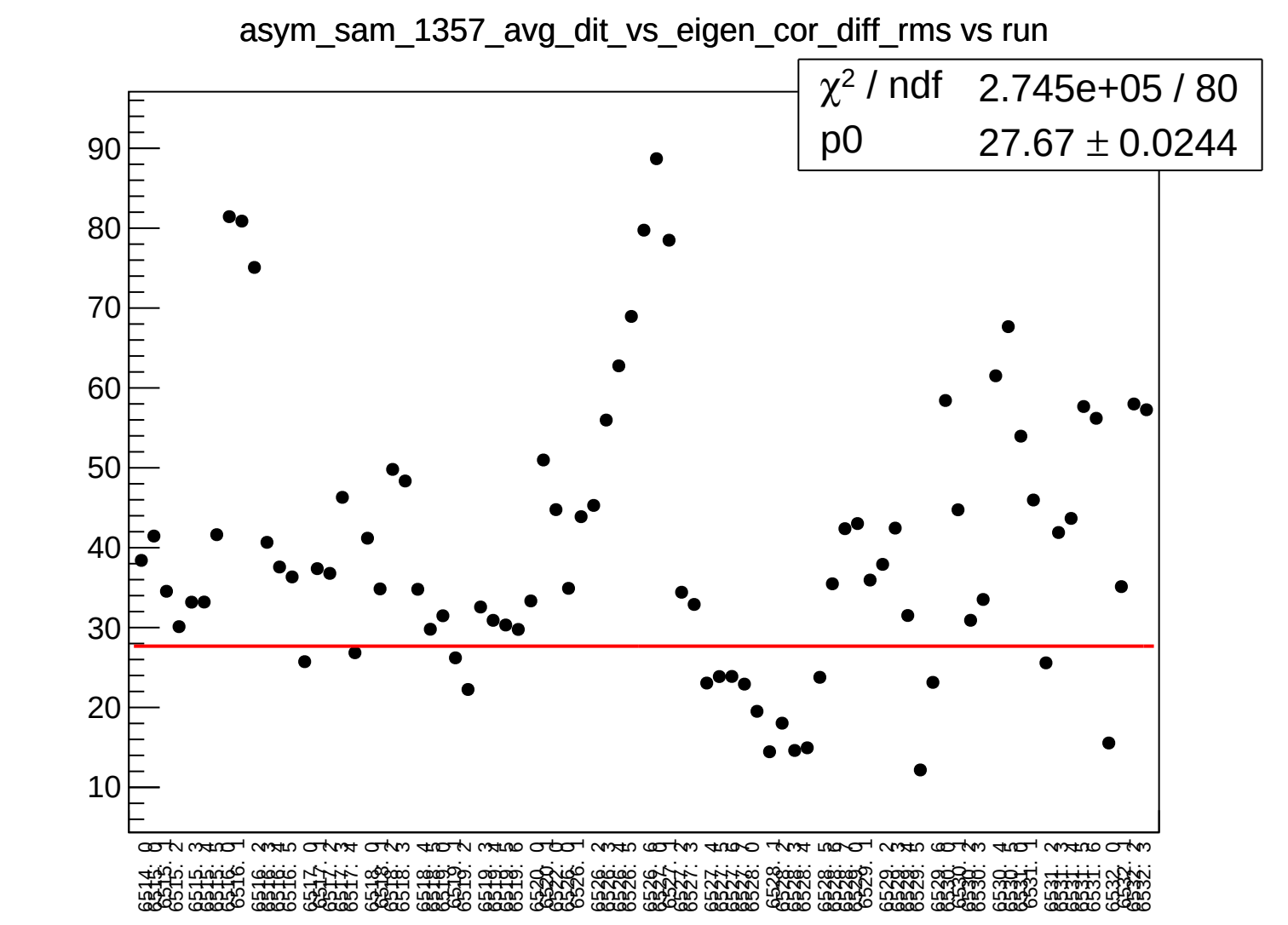

pull1D
Entries 81
Mean −0.04881
Std Dev 1.156

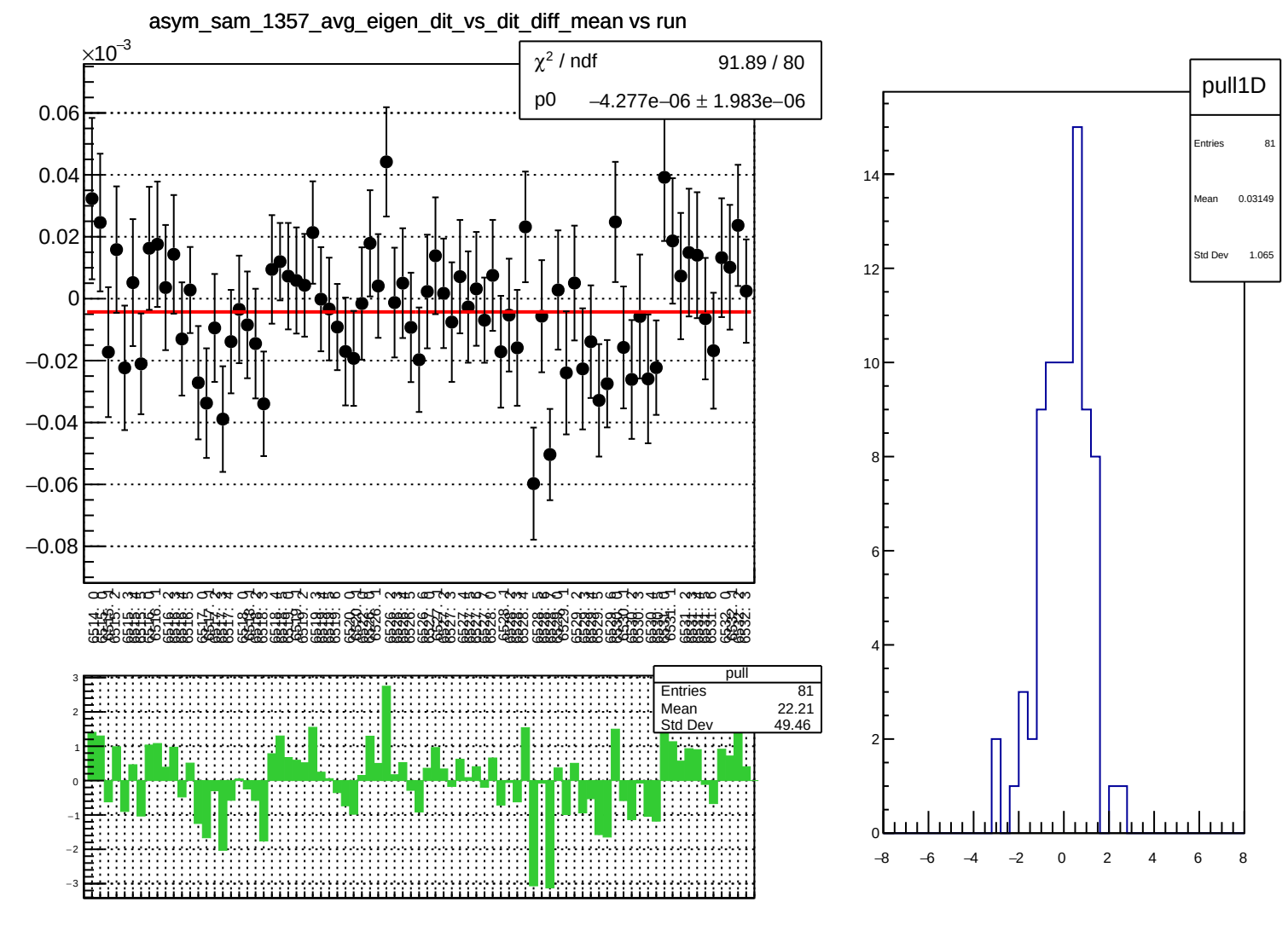

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.546e+05 / 80
p0 6.831e−12 ± 8.773e−15
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

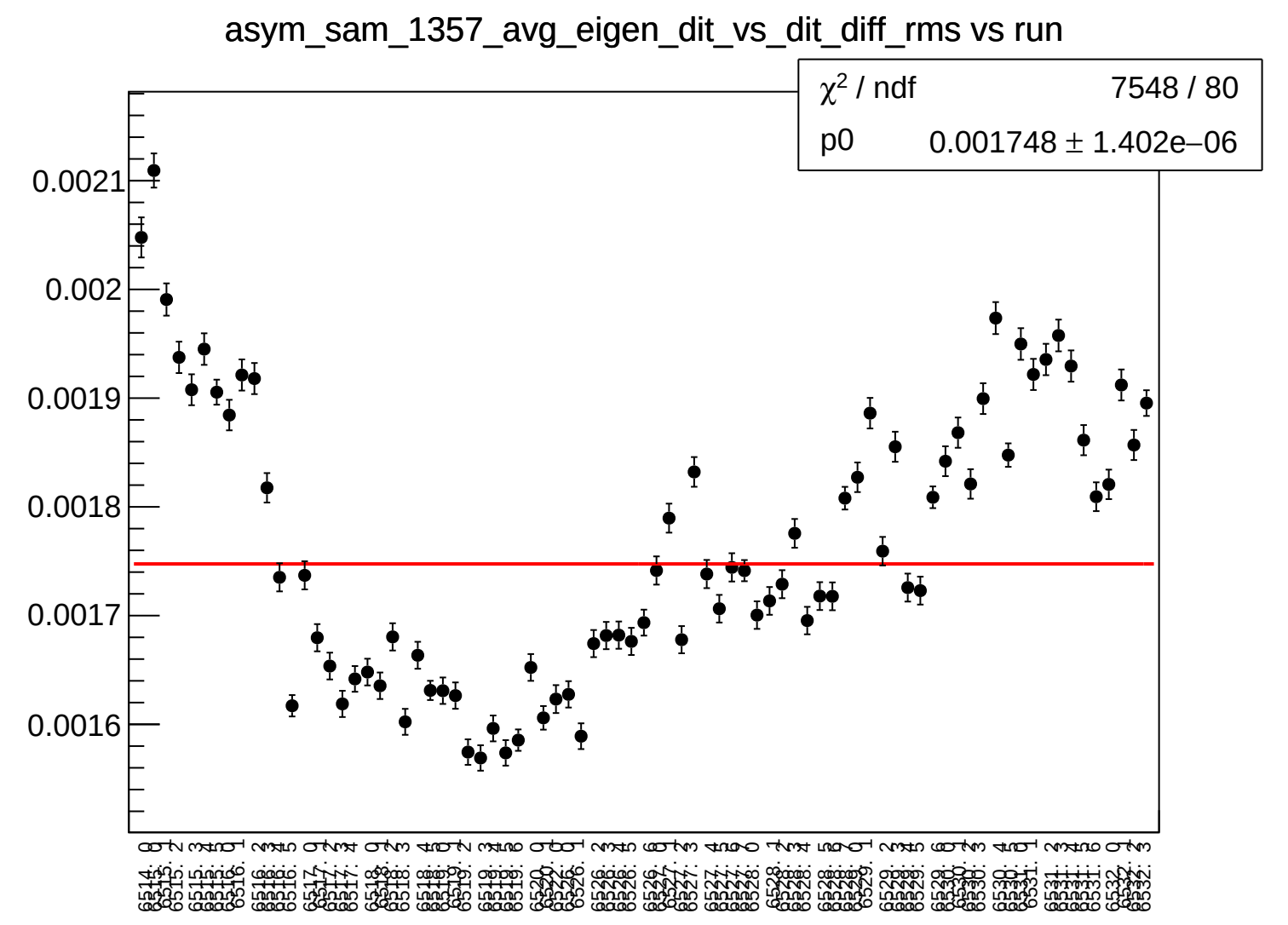

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 121.3 / 80
p0 −0.03824 ± 0.03451
pull
Entries 81
Mean 2076
Std Dev 0
pull1D
Entries 81
Mean −0.00519
Std Dev 1.224

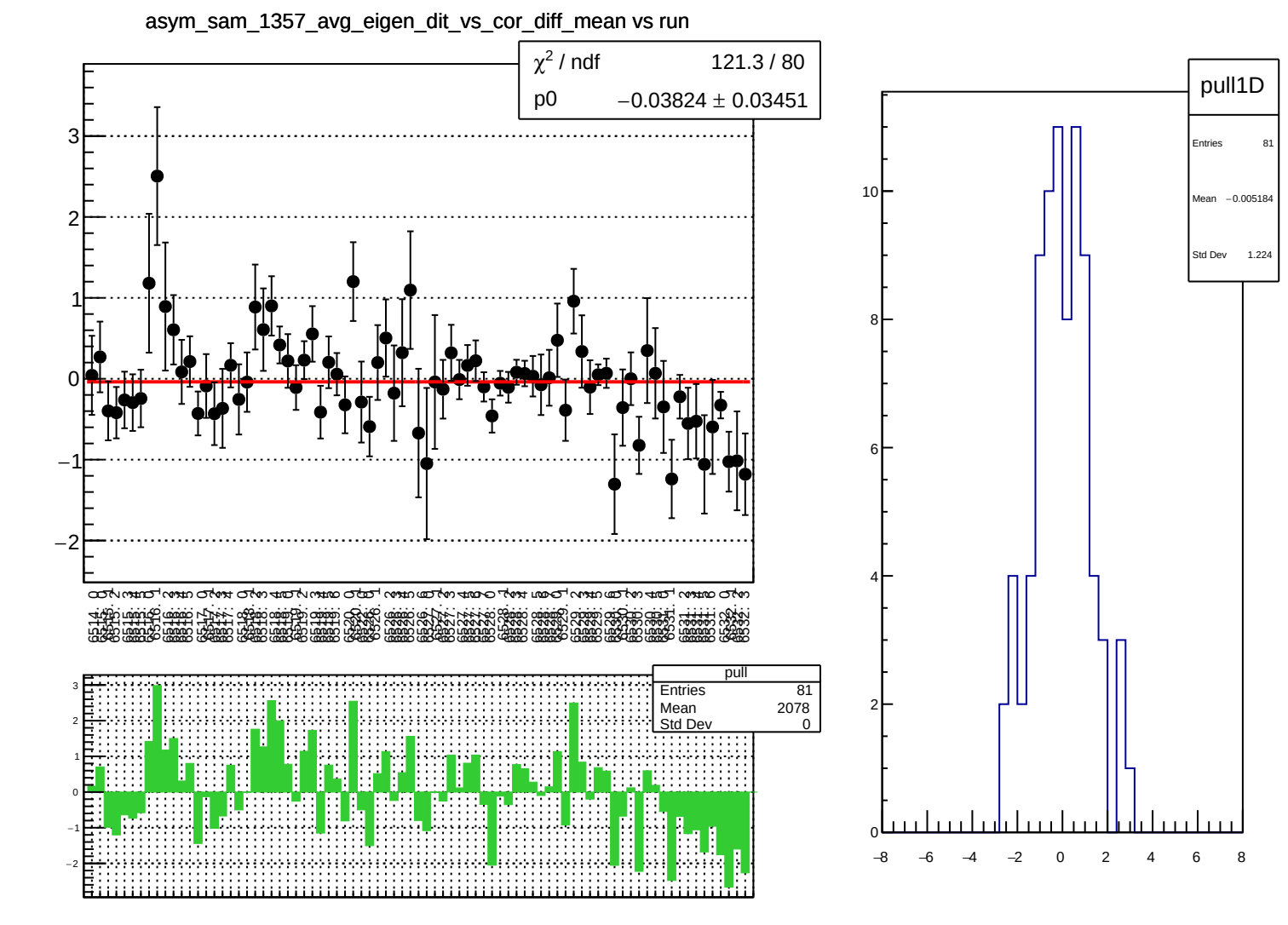

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.745e+05 / 80
p0 27.67 ± 0.0244
90
80
70
60
50
40
30
20
10

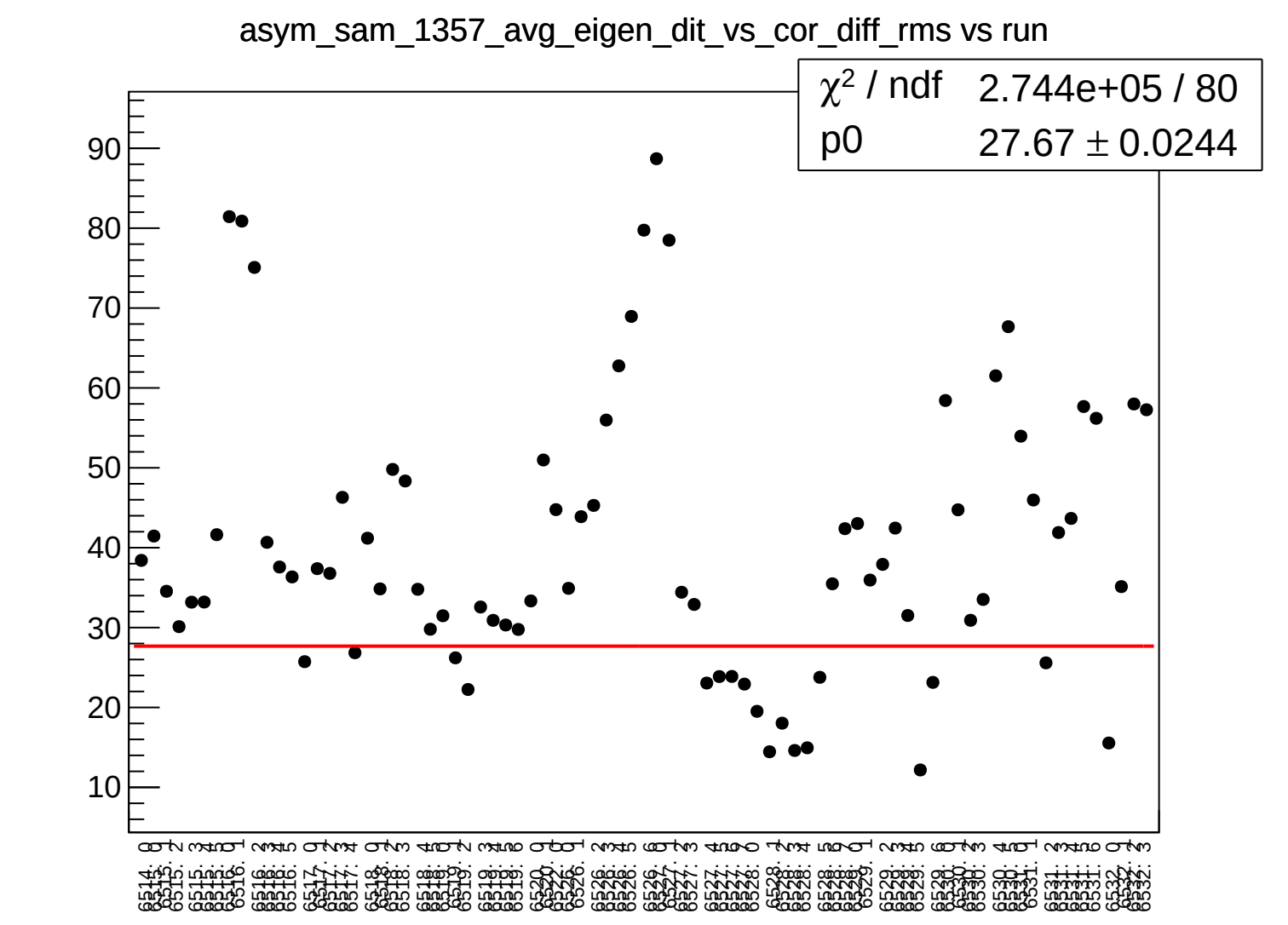

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 121.3 / 80
p0 −0.03824 ± 0.03451
pull
Entries 81
Mean 2076
Std Dev 0
pull1D
Entries 81
Mean −0.00519
Std Dev 1.224

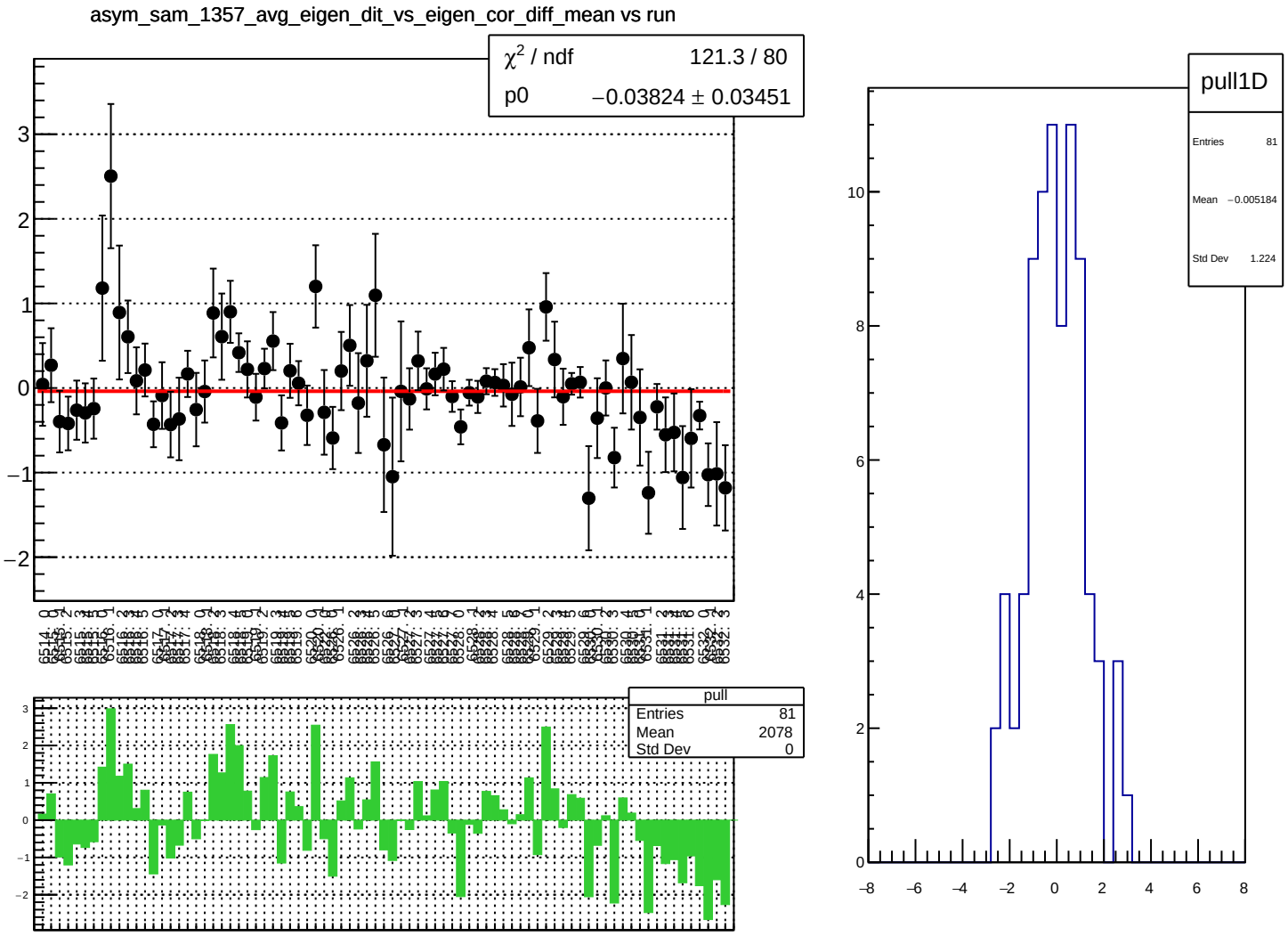

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.745e+05 / 80
p0 27.67 ± 0.0244
90
80
70
60
50
40
30
20
10

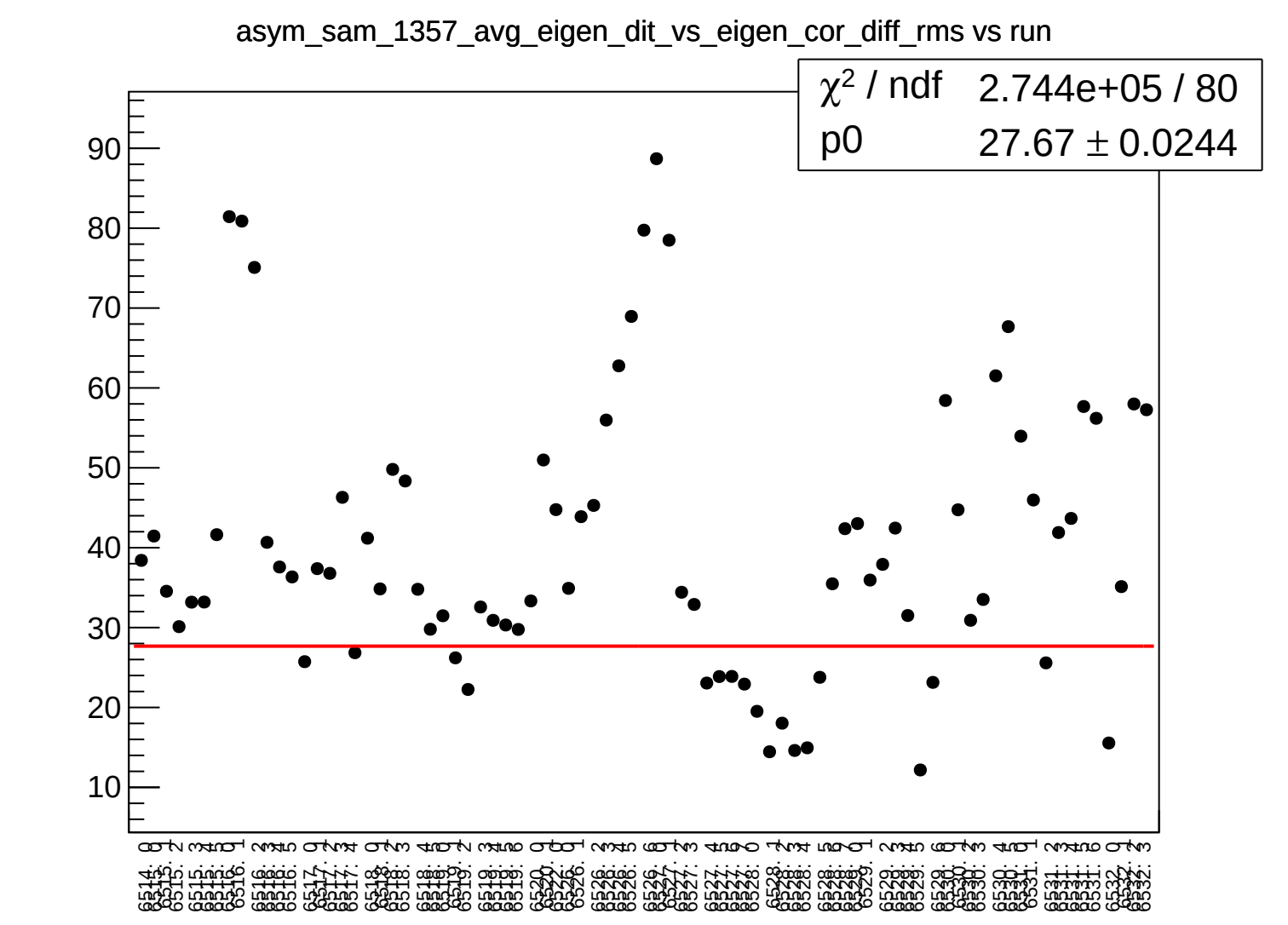

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.89 / 80
p0 −4.277e−06 ± 1.983e−06
pull
Entries 81
Mean 22.21
Std Dev 49.46
pull1D
Entries 81
Mean 0.03149
Std Dev 1.065

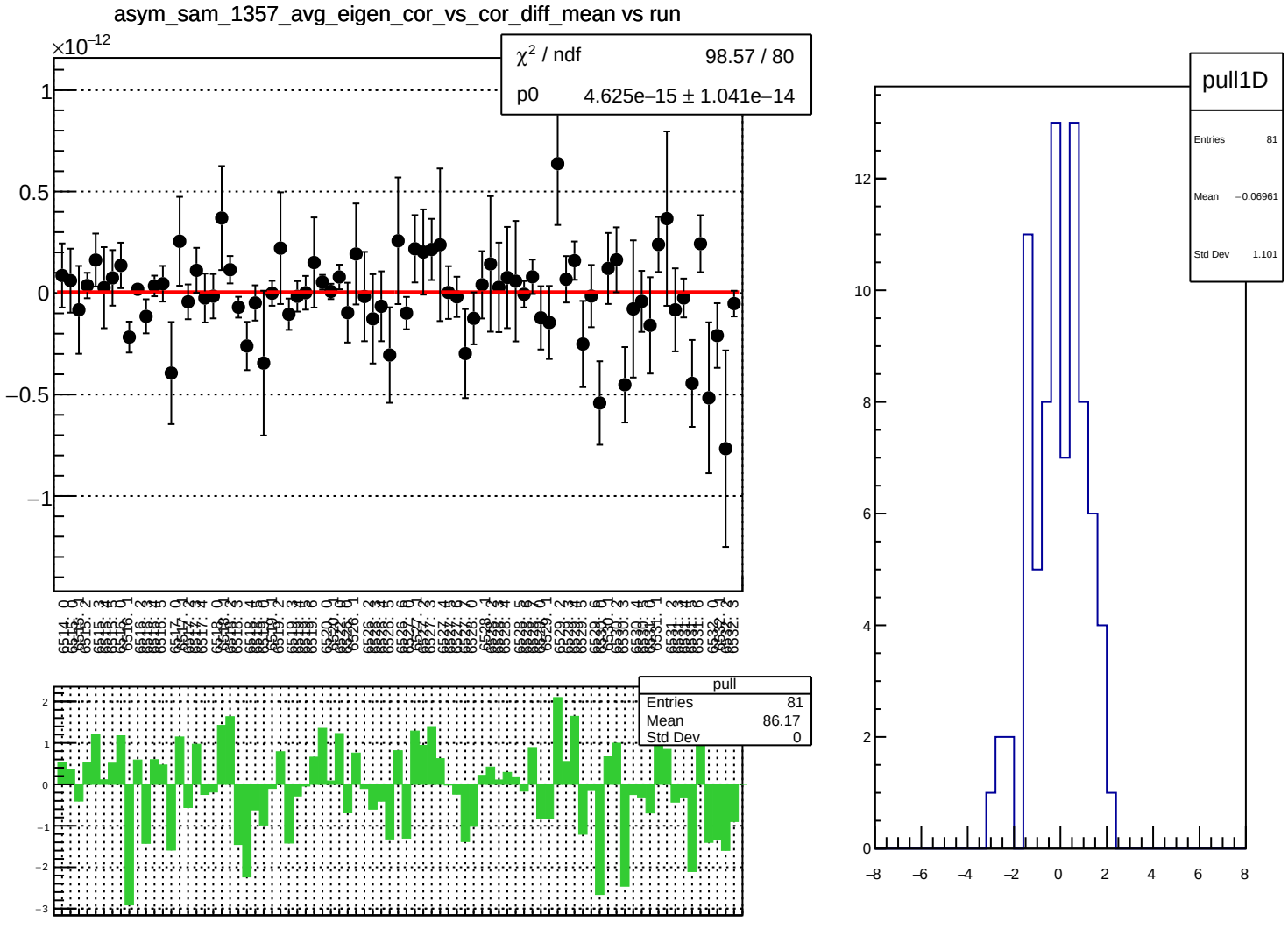

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7548 / 80
p0 0.001748 ± 1.402e−06
0.0021
0.002
0.0019
0.0018
0.0017
0.0016

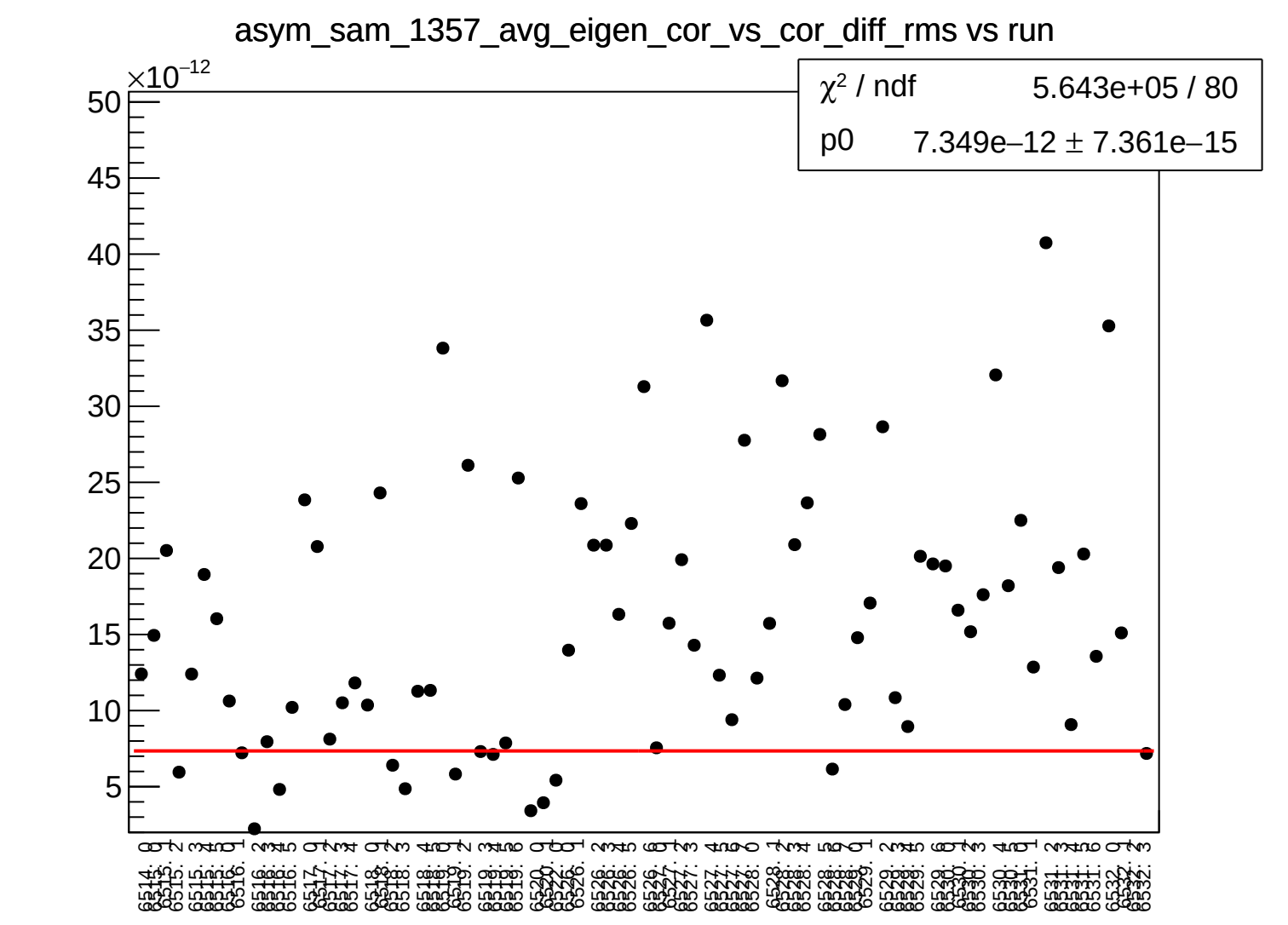

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 121.3 / 80
p0 −0.03824 ± 0.03451
pull
Entries 81
Mean 2078
Std Dev 0
pull1D
Entries 81
Mean −0.005184
Std Dev 1.224

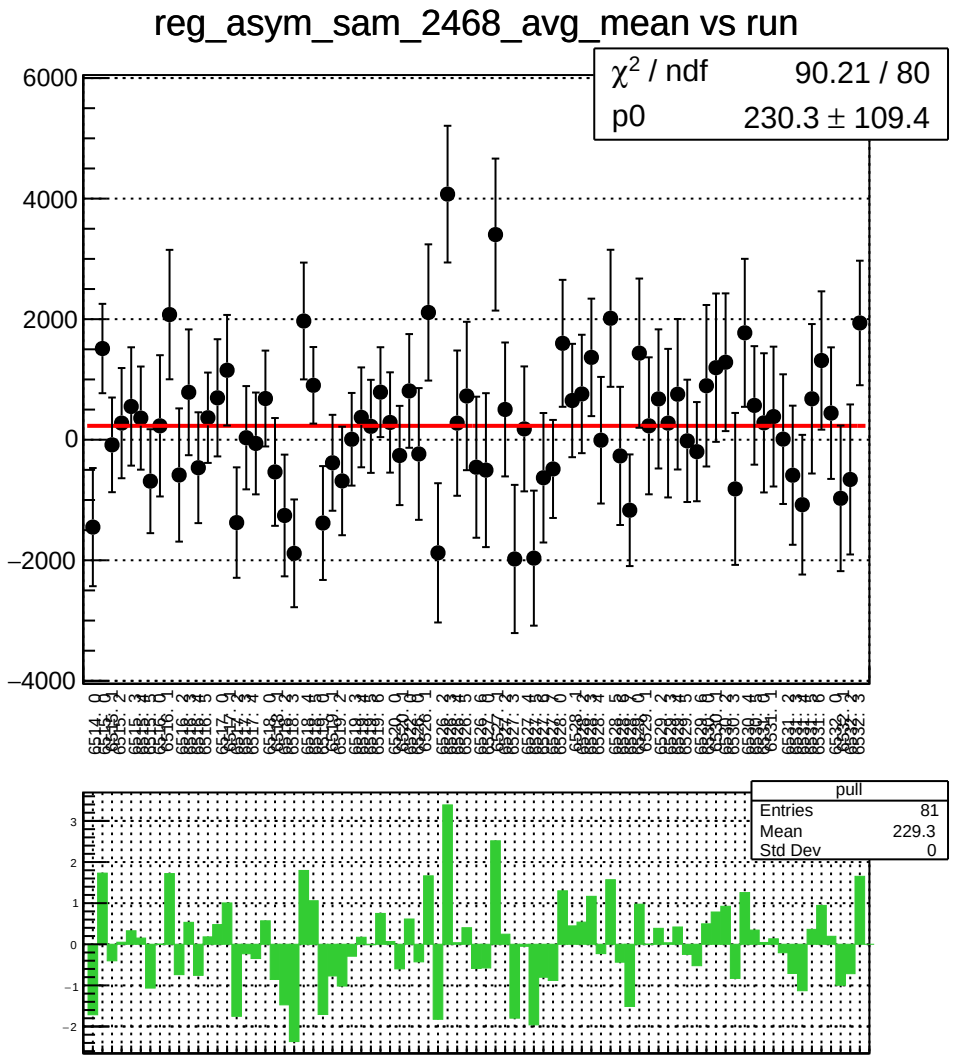

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.744e+05 / 80
p0 27.67 ± 0.0244
90
80
70
60
50
40
30
20
10

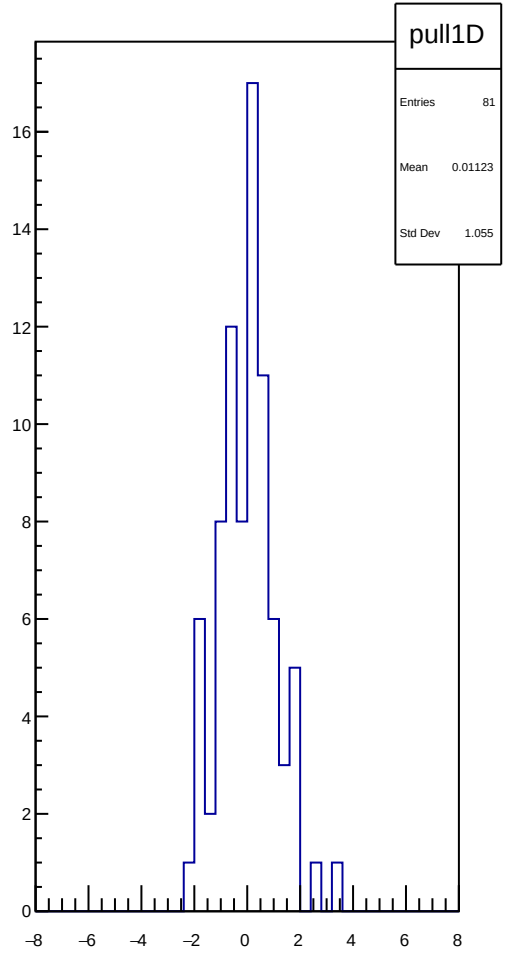

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 121.3 / 80
p0 −0.03824 ± 0.03451
pull
Entries 81
Mean 2078
Std Dev 0
pull1D
Entries 81
Mean −0.005184
Std Dev 1.224

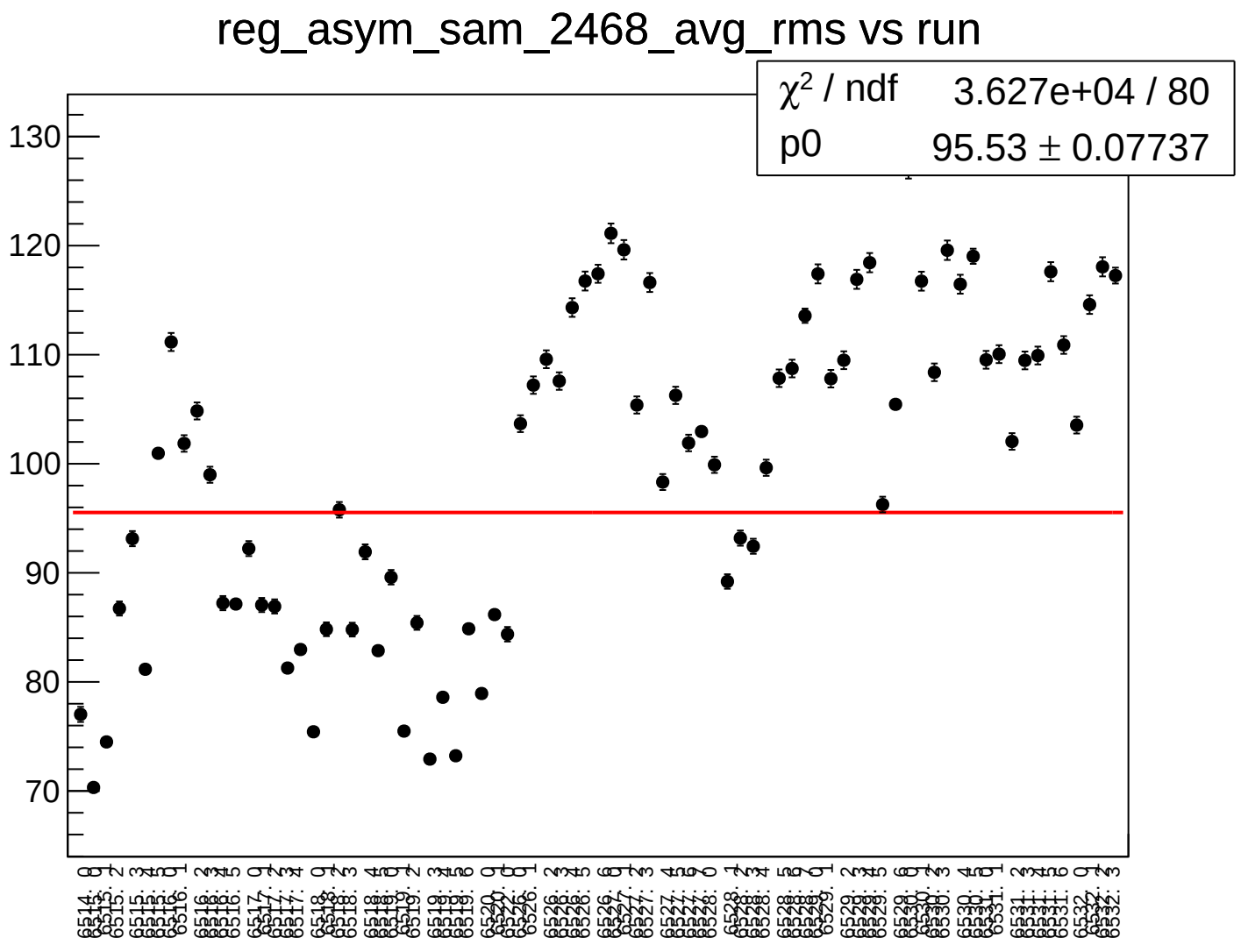

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.744e+05 / 80
p0 27.67 ± 0.0244
90
80
70
60
50
40
30
20
10

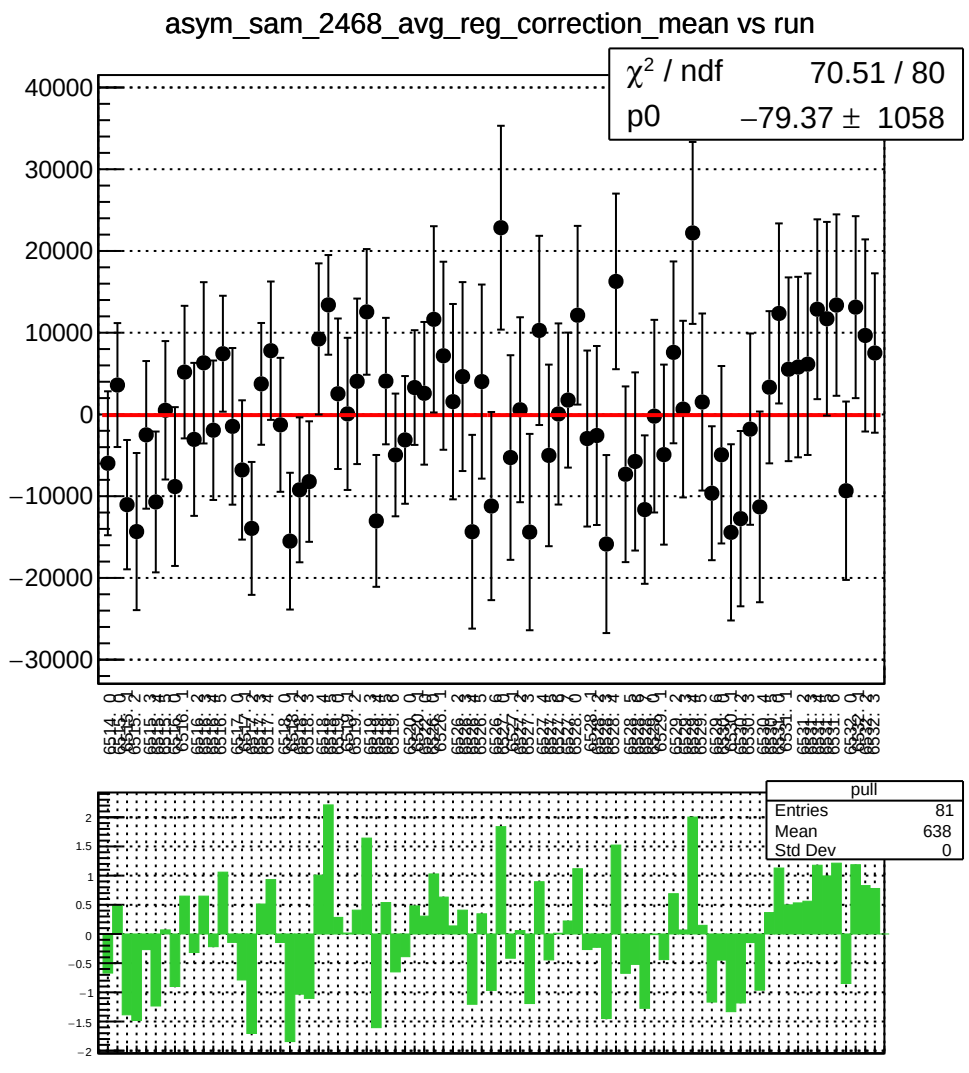

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.57 / 80
p0 4.625e−15 ± 1.041e−14
pull
Entries 81
Mean 86.17
Std Dev 0
pull1D
Entries 81
Mean −0.06961
Std Dev 1.101

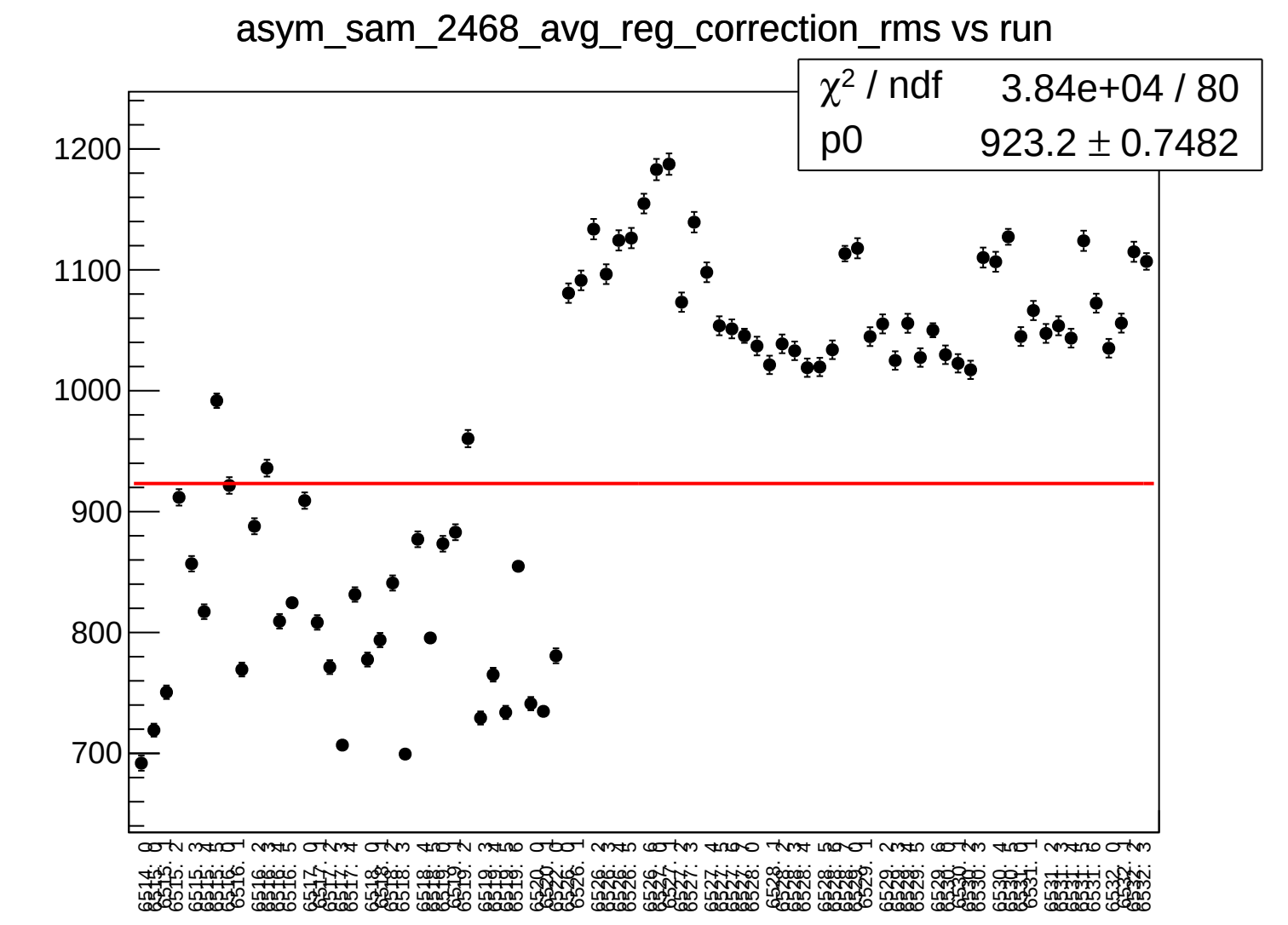

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.643e+05 / 80
p0 7.349e−12 ± 7.361e−15
50
45
40
35
30
25
20
15
10
5

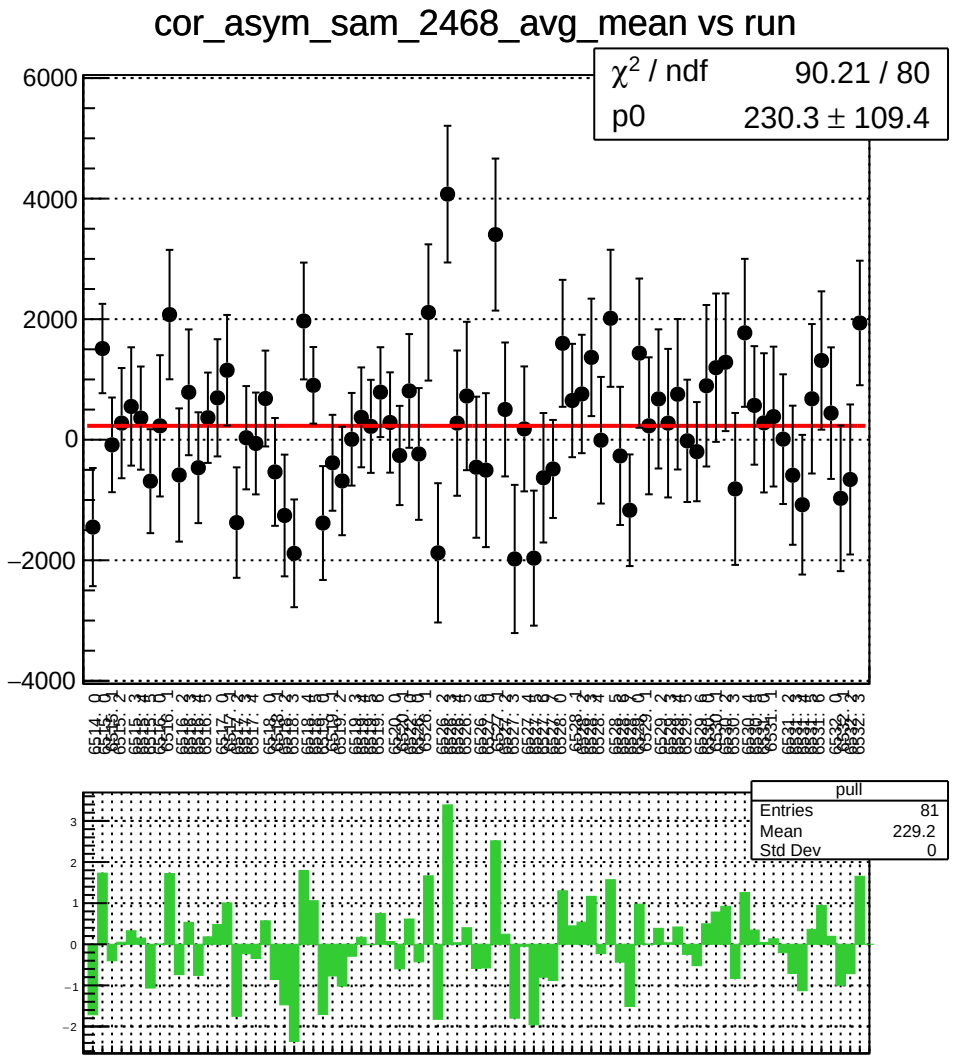

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 90.21 / 80
p0 230.3 ± 109.4
6000
4000
2000
0
−2000
−4000
pull
Entries 81
Mean 229.3
Std Dev 0
3
2
1
0
−1
−2

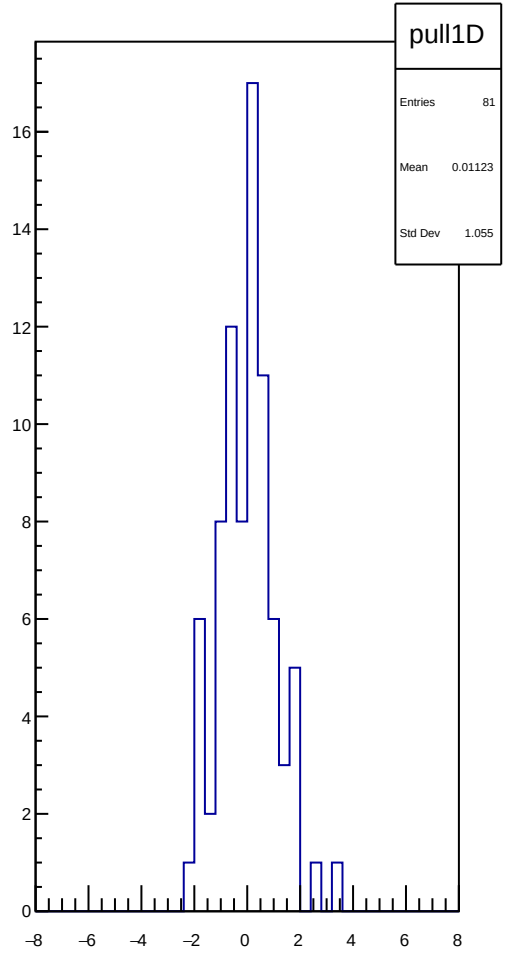

pull1D
Entries 81
Mean 0.01123
Std Dev 1.055
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

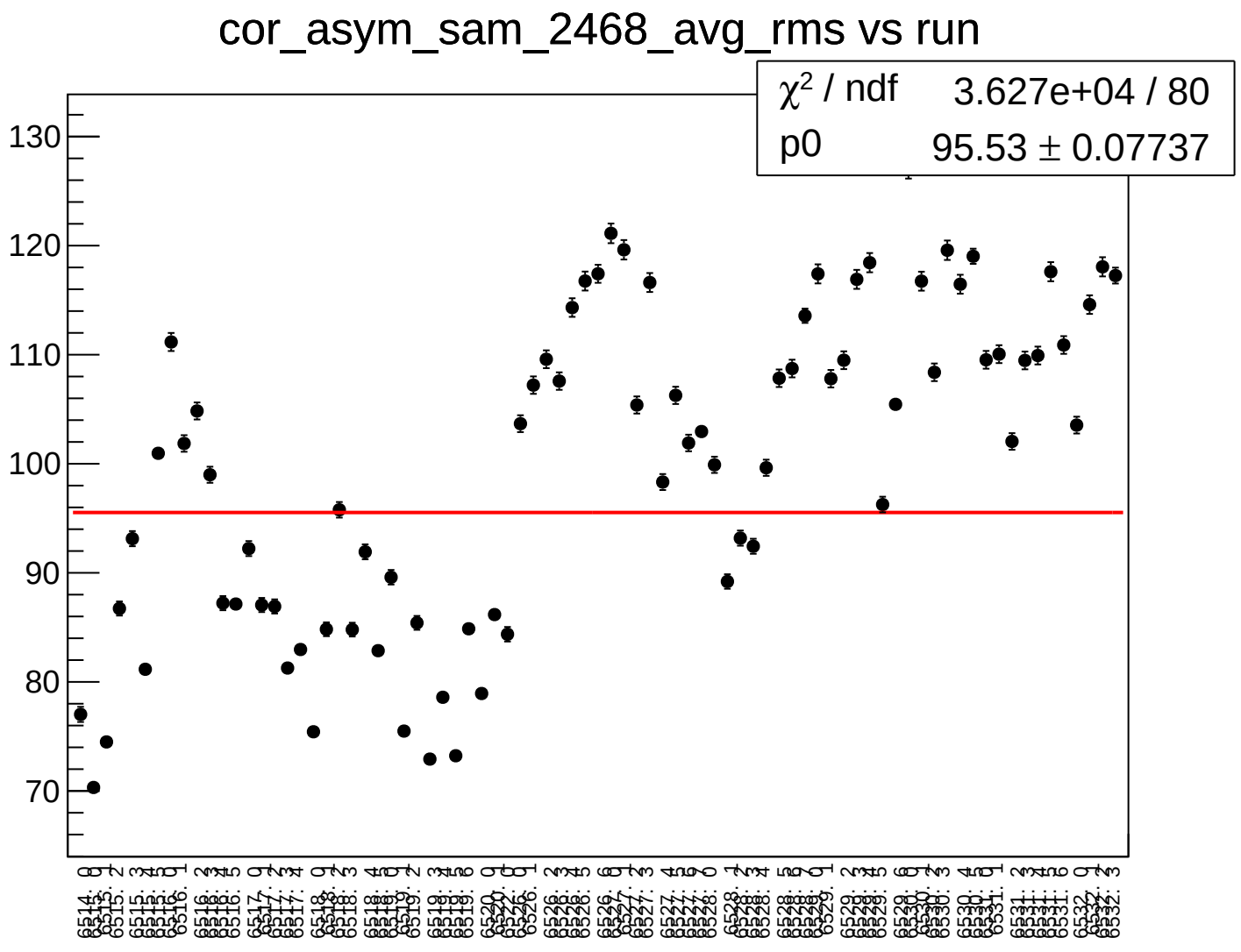

reg_asym_sam_2468_avg_rms vs run
χ^2 / ndf 3.627e+04 / 80
p0 95.53 ± 0.07737
130
120
110
100
90
80
70

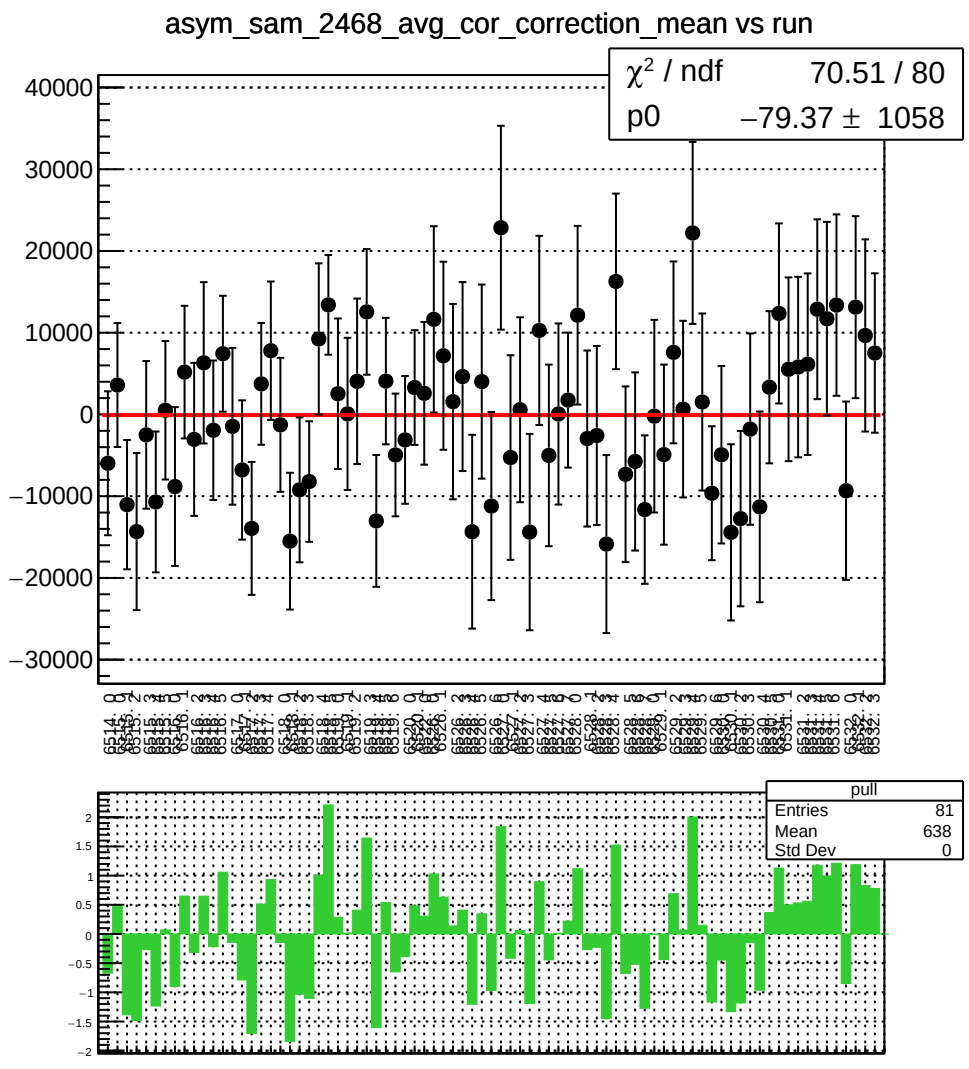

asym_sam_2468_avg_reg_correction_mean vs run
χ² / ndf 70.51 / 80
p0 −79.37 ± 1058
pull
Entries 81
Mean 638
Std Dev 0
pull1D
Entries 81
Mean 0.007426
Std Dev 0.933

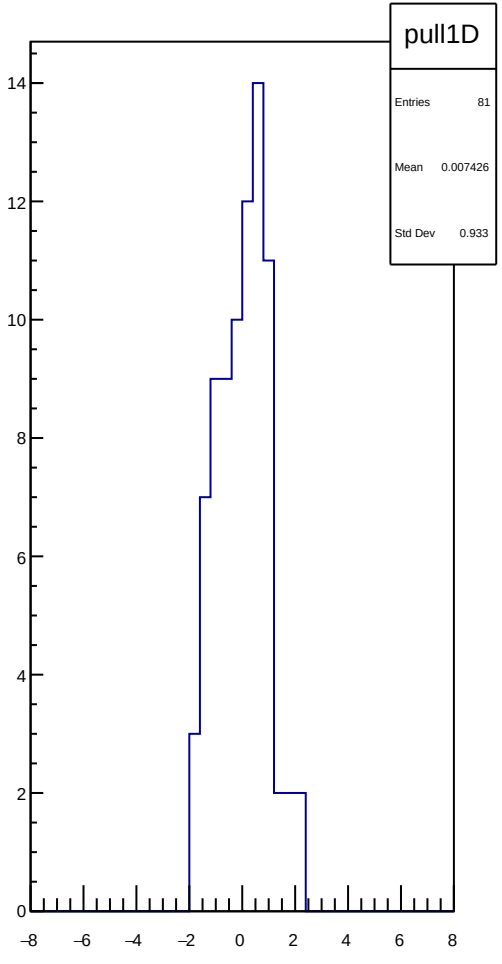

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 3.84e+04 / 80
p0 923.2 ± 0.7482
1200
1100
1000
900
800
700

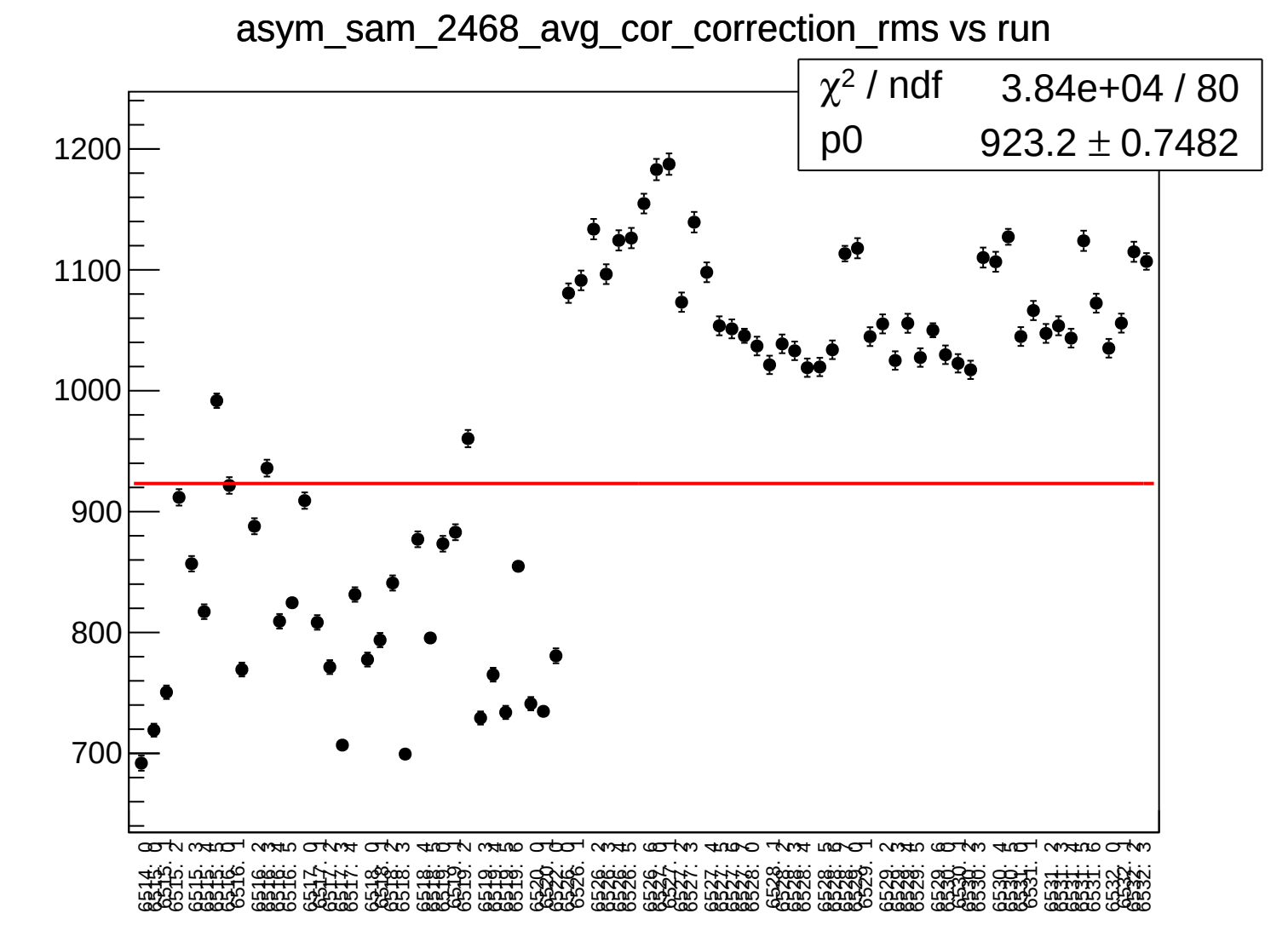

cor_asym_sam_2468_avg_mean vs run
χ² / ndf 90.21 / 80
p0 230.3 ± 109.4
6000
4000
2000
0
−2000
−4000
pull
Entries 81
Mean 229.2
Std Dev 0
3
2
1
0
−1
−2

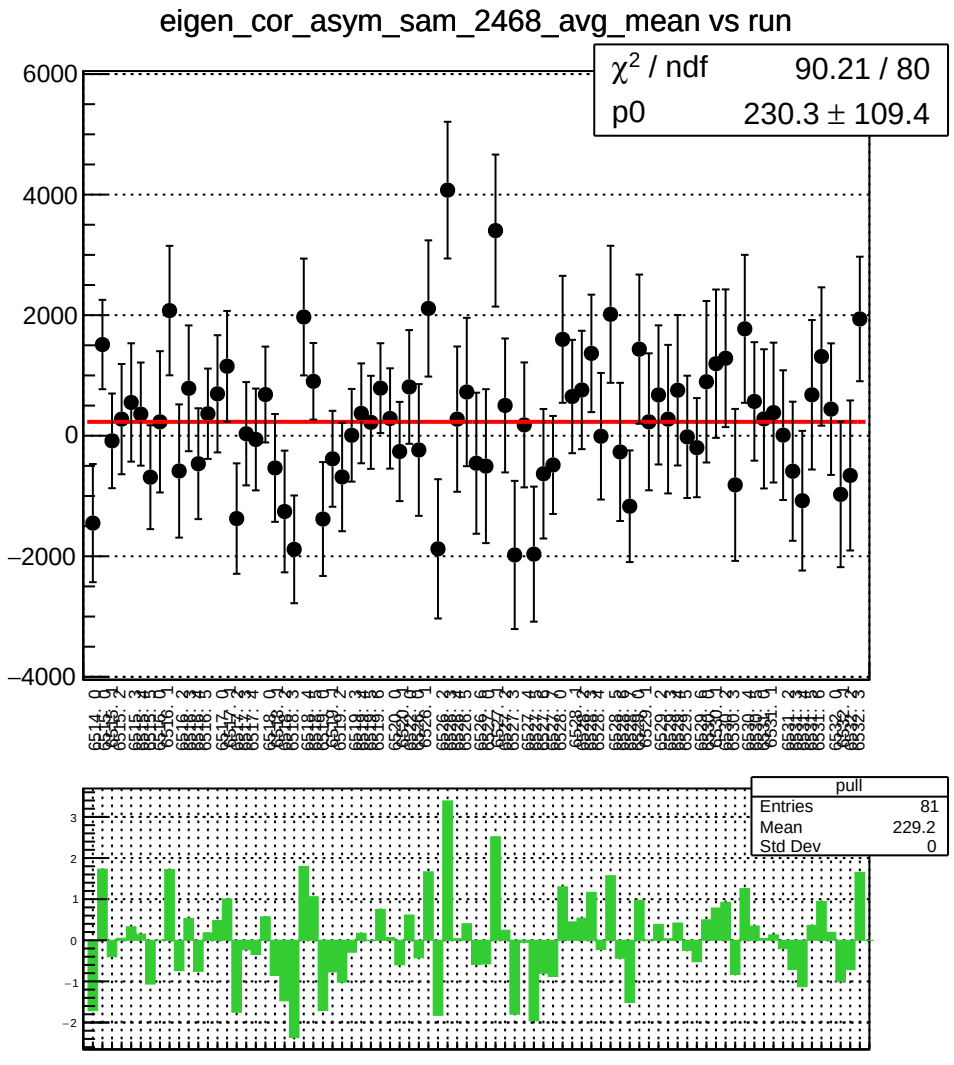

pull1D
Entries 81
Mean 0.01123
Std Dev 1.055
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

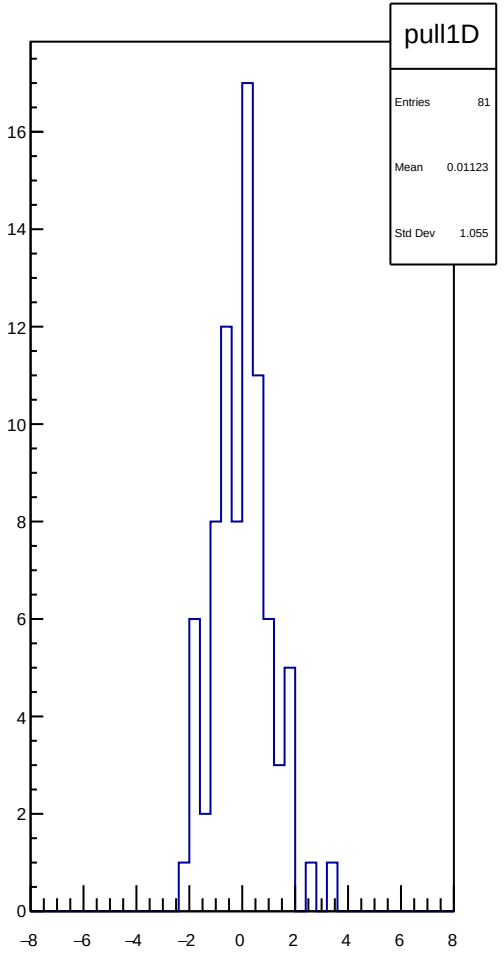

cor_asym_sam_2468_avg_rms vs run
χ² / ndf 3.627e+04 / 80
p0 95.53 ± 0.07737
130
120
110
100
90
80
70

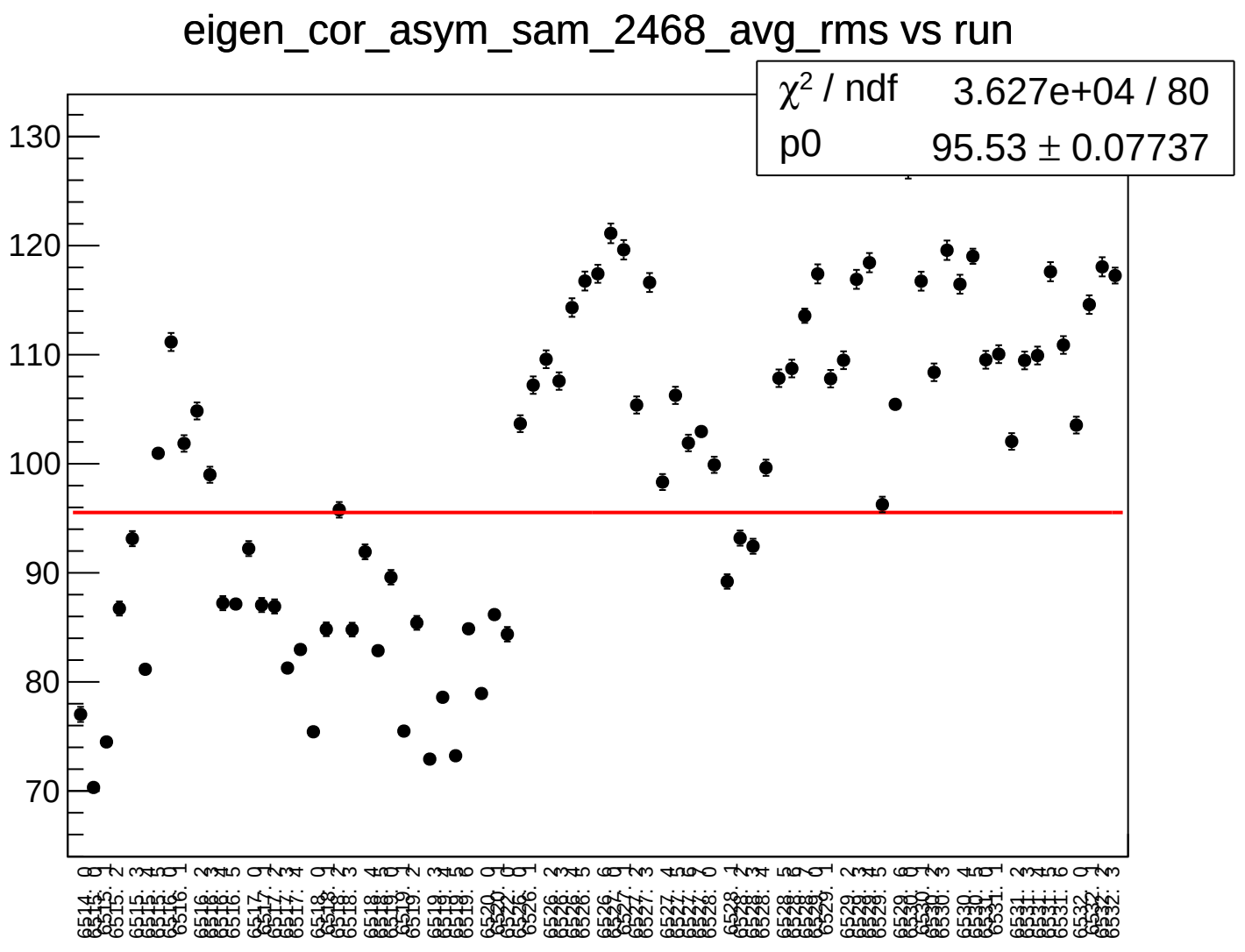

asym_sam_2468_avg_cor_correction_mean vs run
χ² / ndf 70.51 / 80
p0 −79.37 ± 1058
pull
Entries 81
Mean 638
Std Dev 0

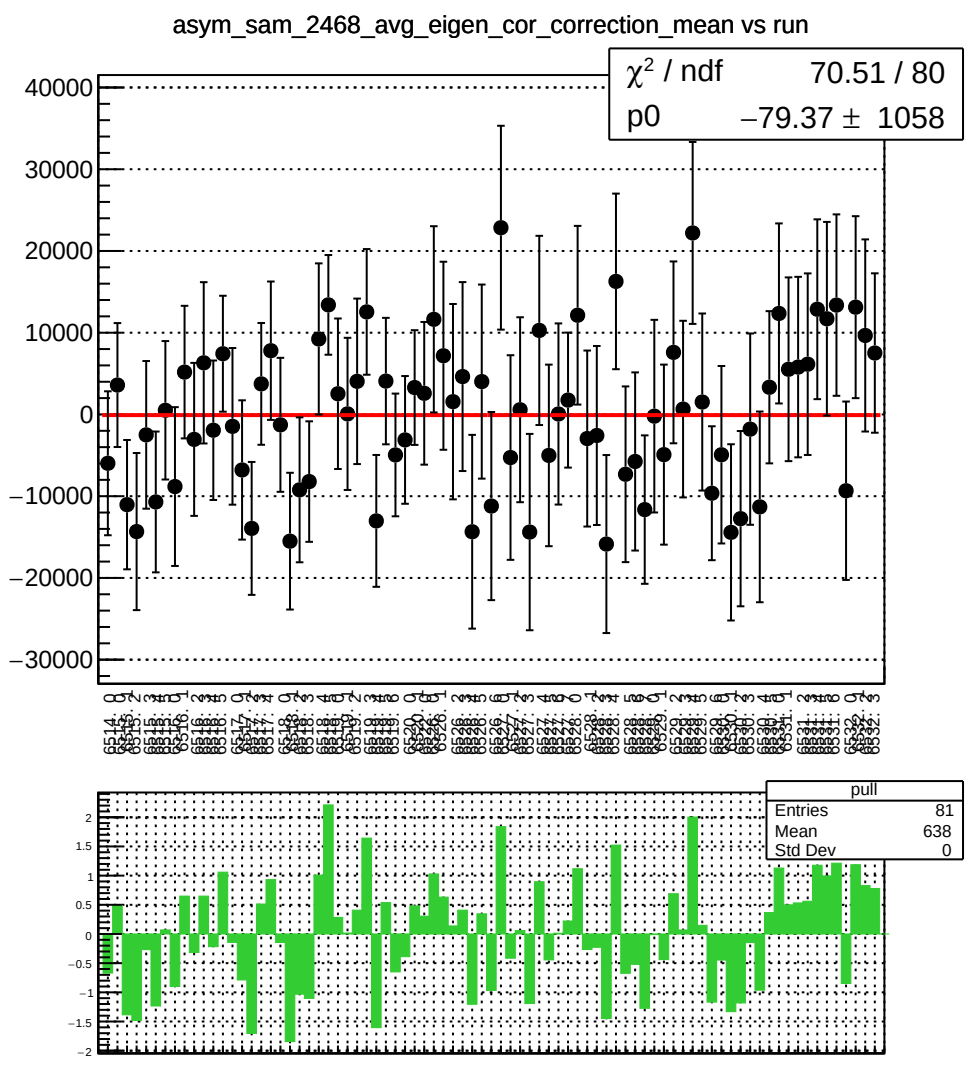

pull1D
Entries 81
Mean 0.007426
Std Dev 0.933

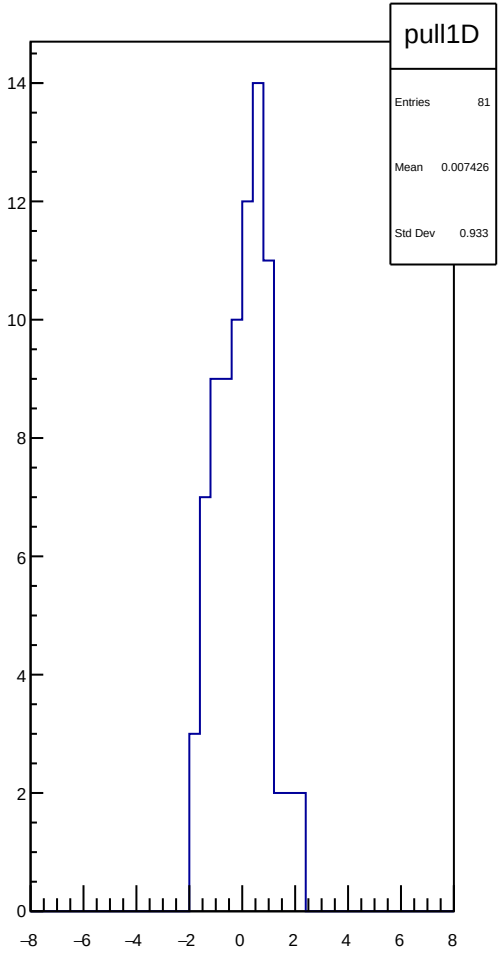

asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 3.84e+04 / 80
p0 923.2 ± 0.7482
1200
1100
1000
900
800
700

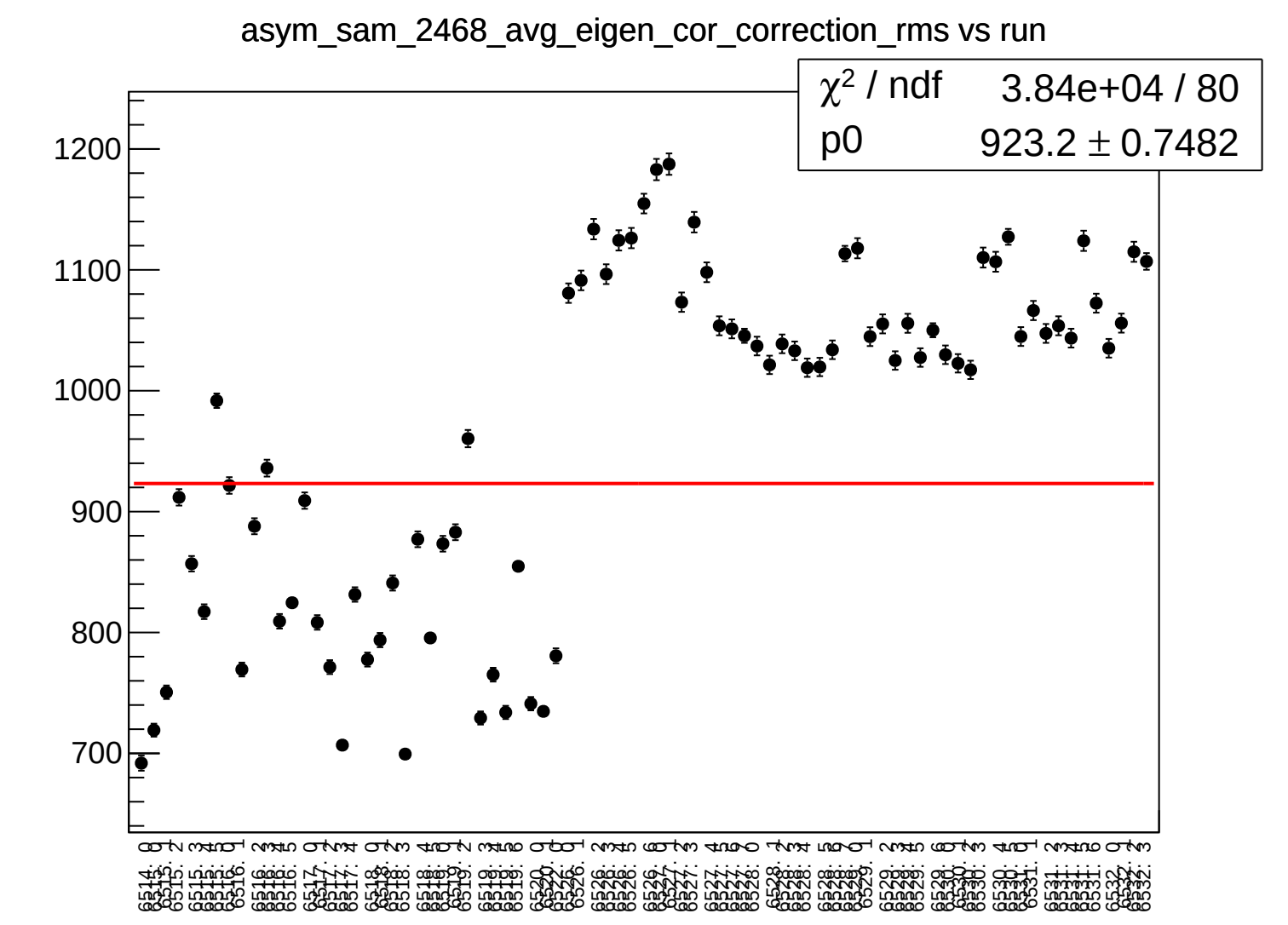

eigen_cor_asym_sam_2468_avg_mean vs run
χ^2 / ndf 90.21 / 80
p0 230.3 ± 109.4
6000
4000
2000
0
−2000
−4000
pull
Entries 81
Mean 229.2
Std Dev 0
3
2
1
0
−1
−2

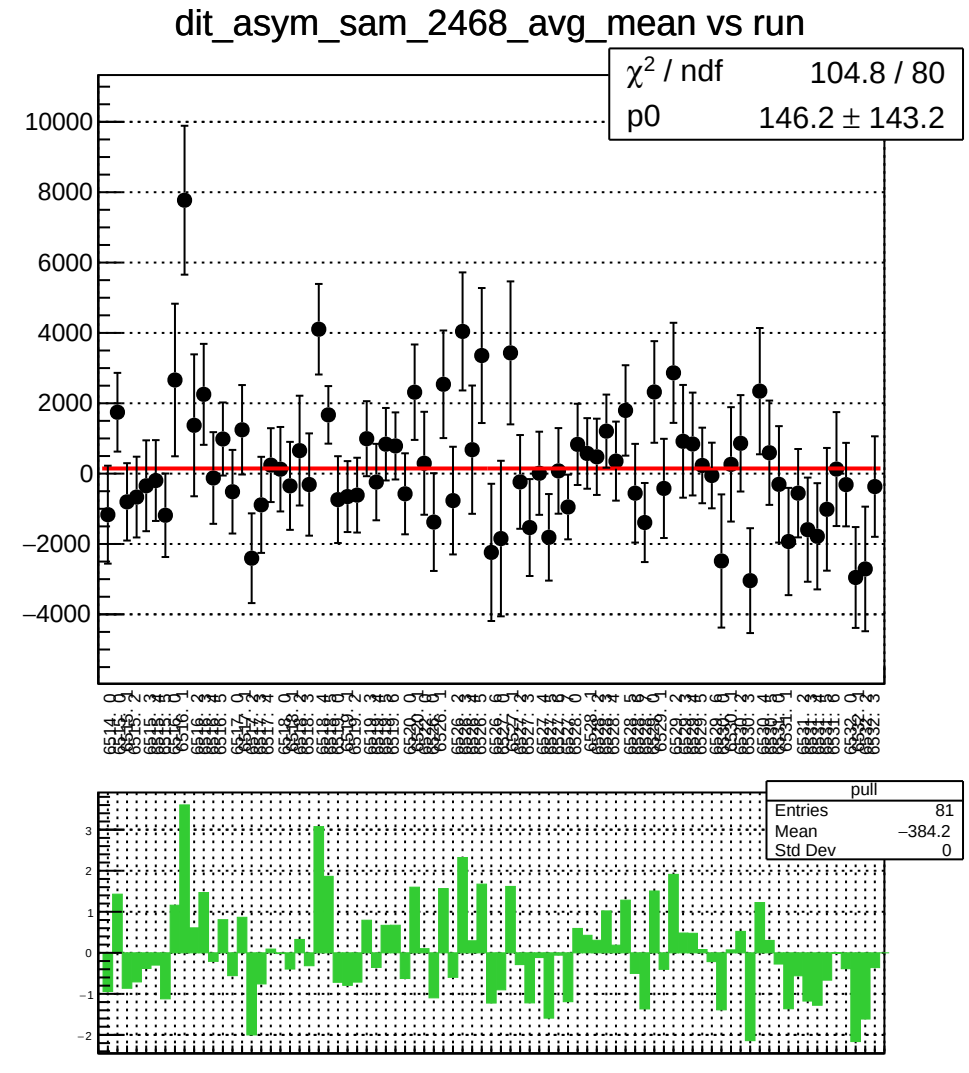

pull1D
Entries 81
Mean 0.01123
Std Dev 1.055
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

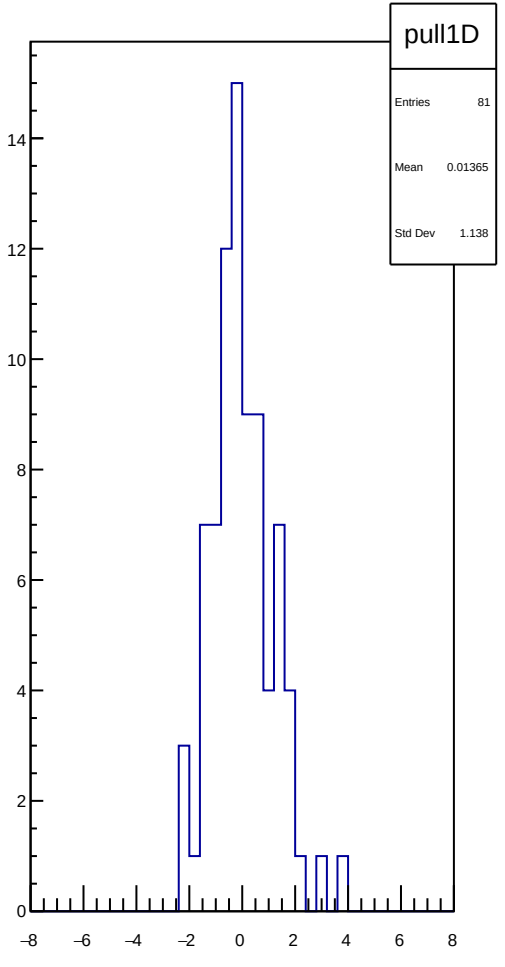

eigen_cor_asym_sam_2468_avg_rms vs run
χ² / ndf 3.627e+04 / 80
p0 95.53 ± 0.07737
130
120
110
100
90
80
70

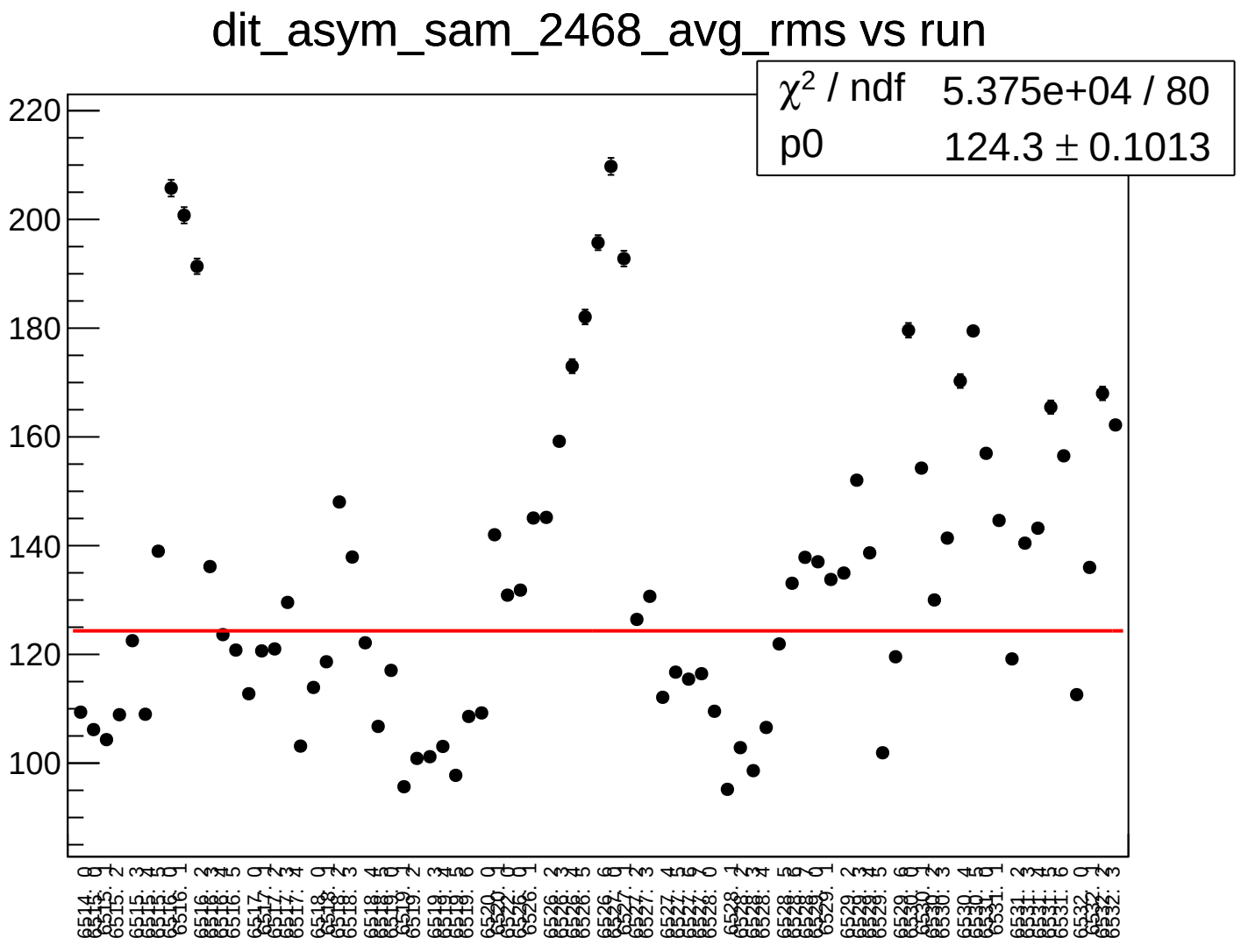

asym_sam_2468_avg_eigen_cor_correction_mean vs run
χ² / ndf 70.51 / 80
p0 −79.37 ± 1058
pull
Entries 81
Mean 638
Std Dev 0

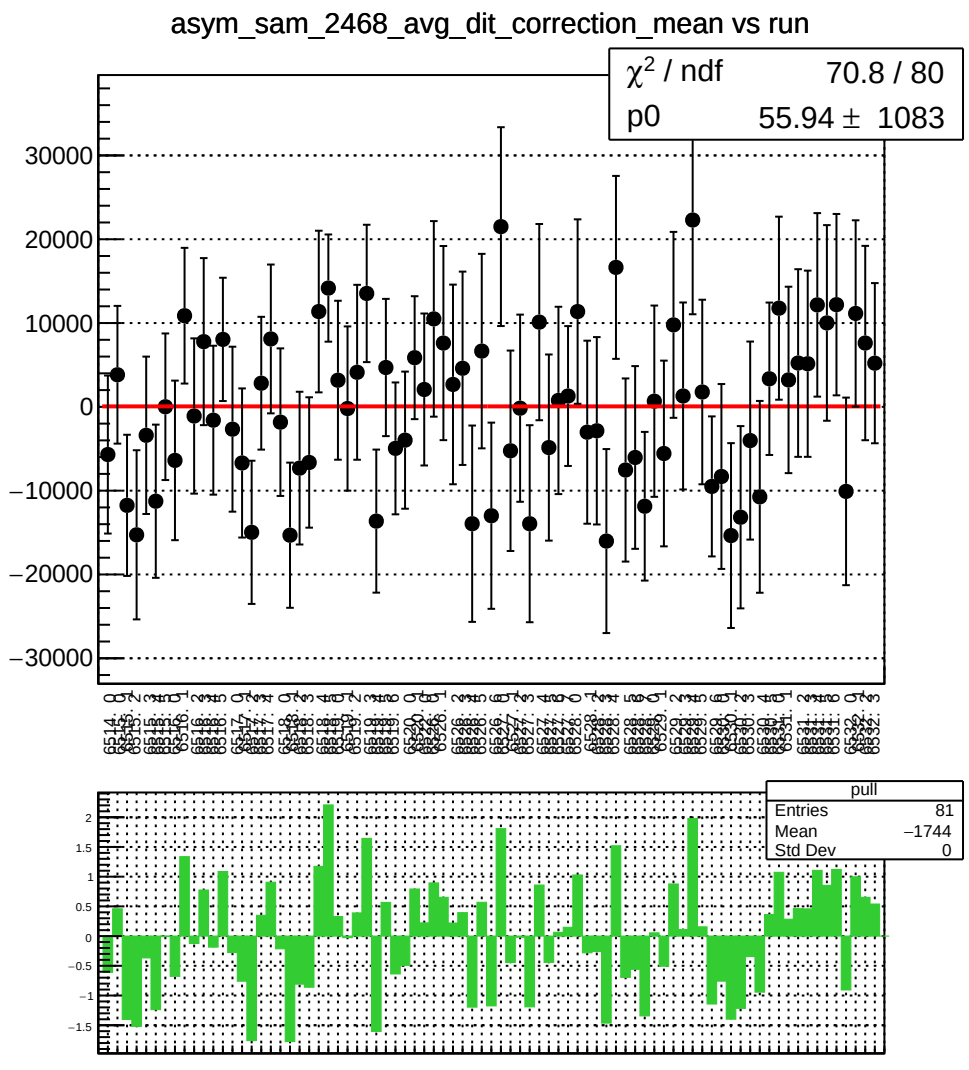

pull1D
Entries 81
Mean 0.007426
Std Dev 0.933

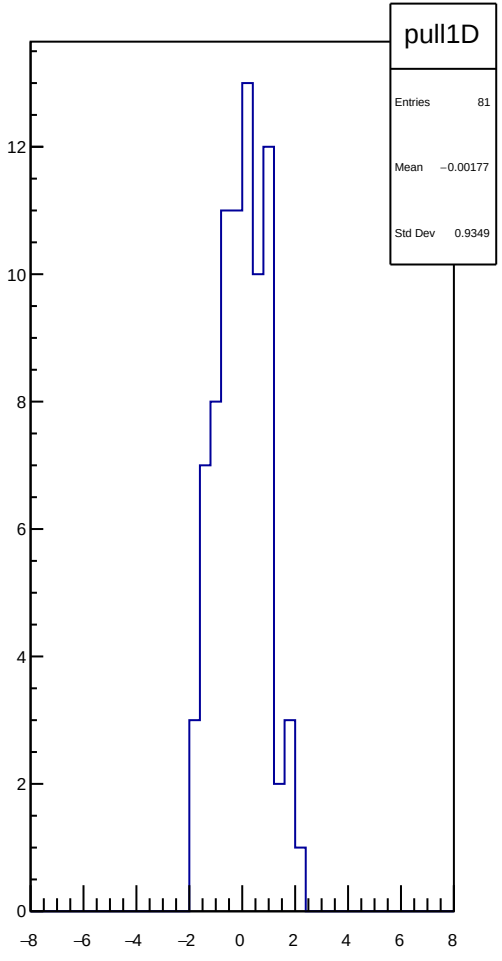

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.84e+04 / 80
p0 923.2 ± 0.7482
1200
1100
1000
900
800
700

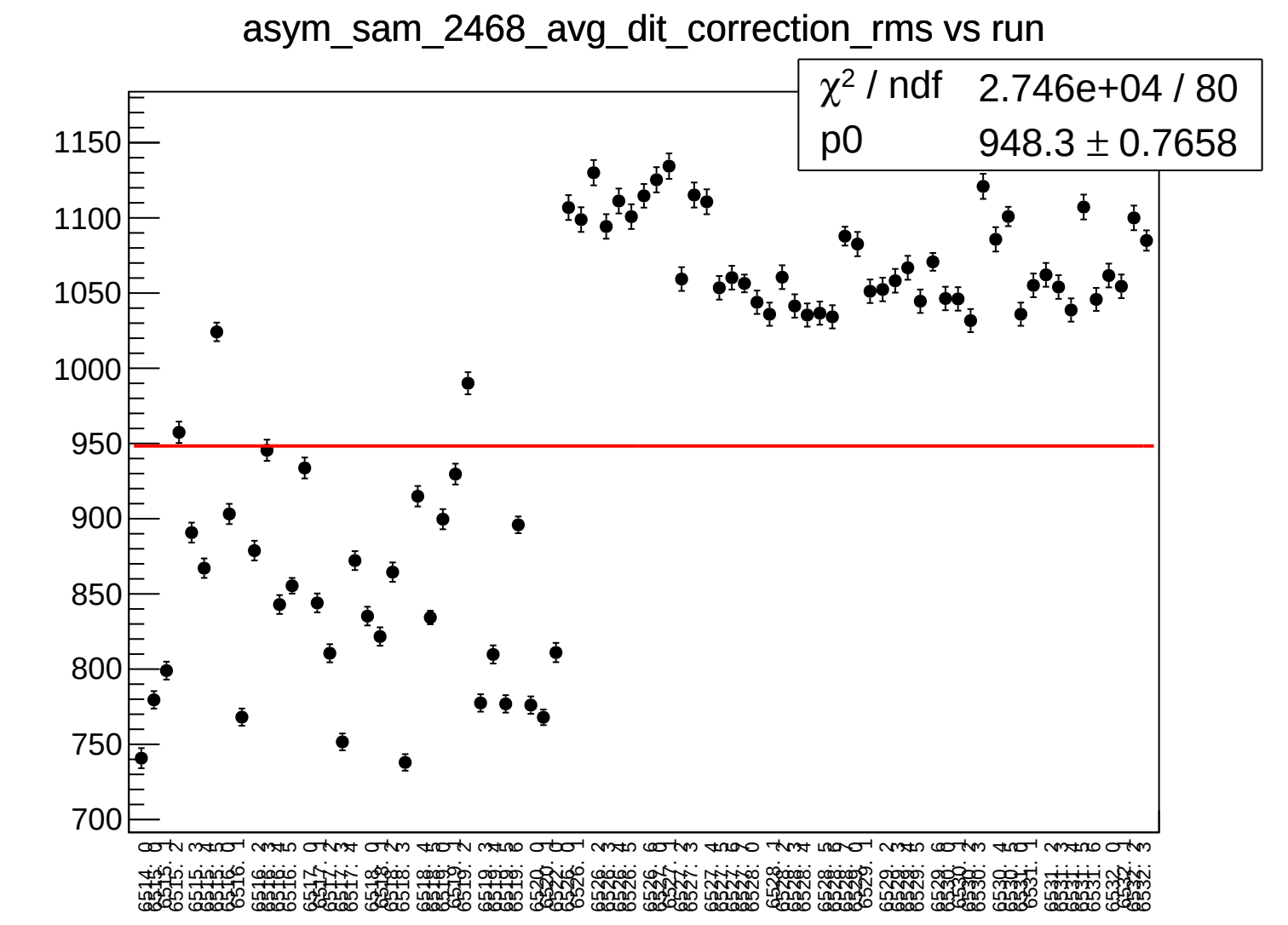

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 104.8 / 80
p0 146.2 ± 143.2
pull
Entries 81
Mean −384.2
Std Dev 0

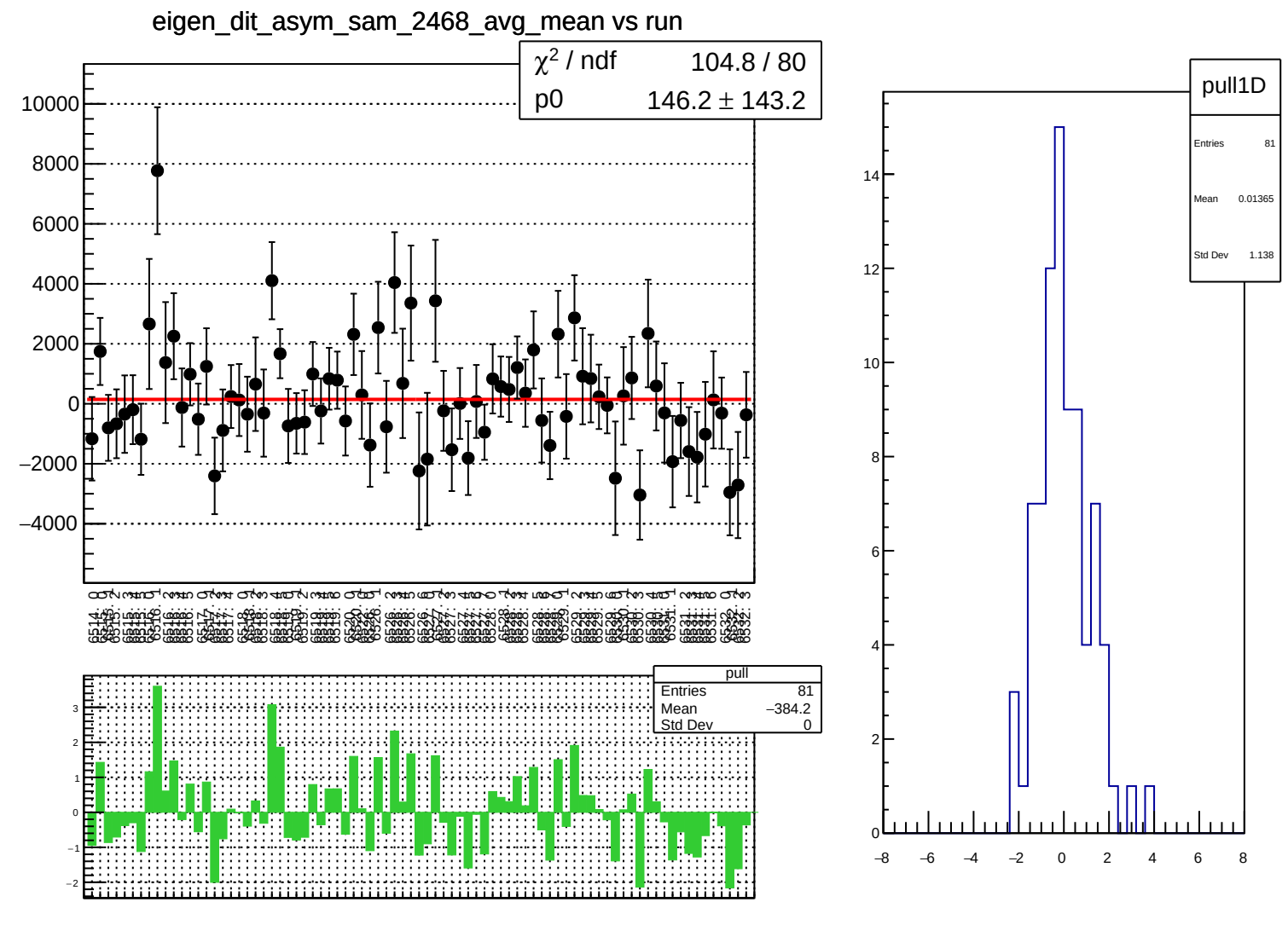

pull1D
Entries 81
Mean 0.01365
Std Dev 1.138

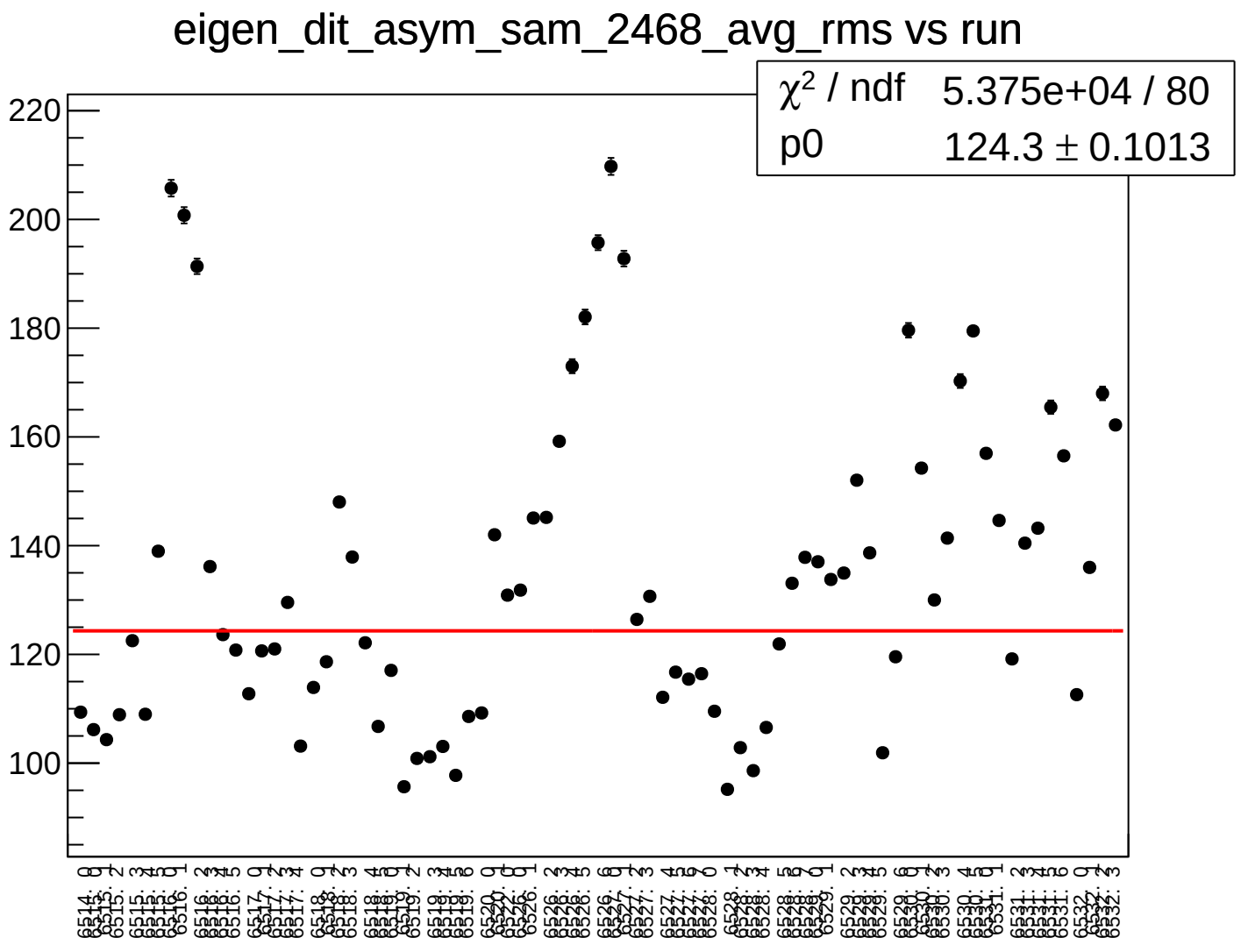

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 5.375e+04 / 80
p0 124.3 ± 0.1013
220
200
180
160
140
120
100

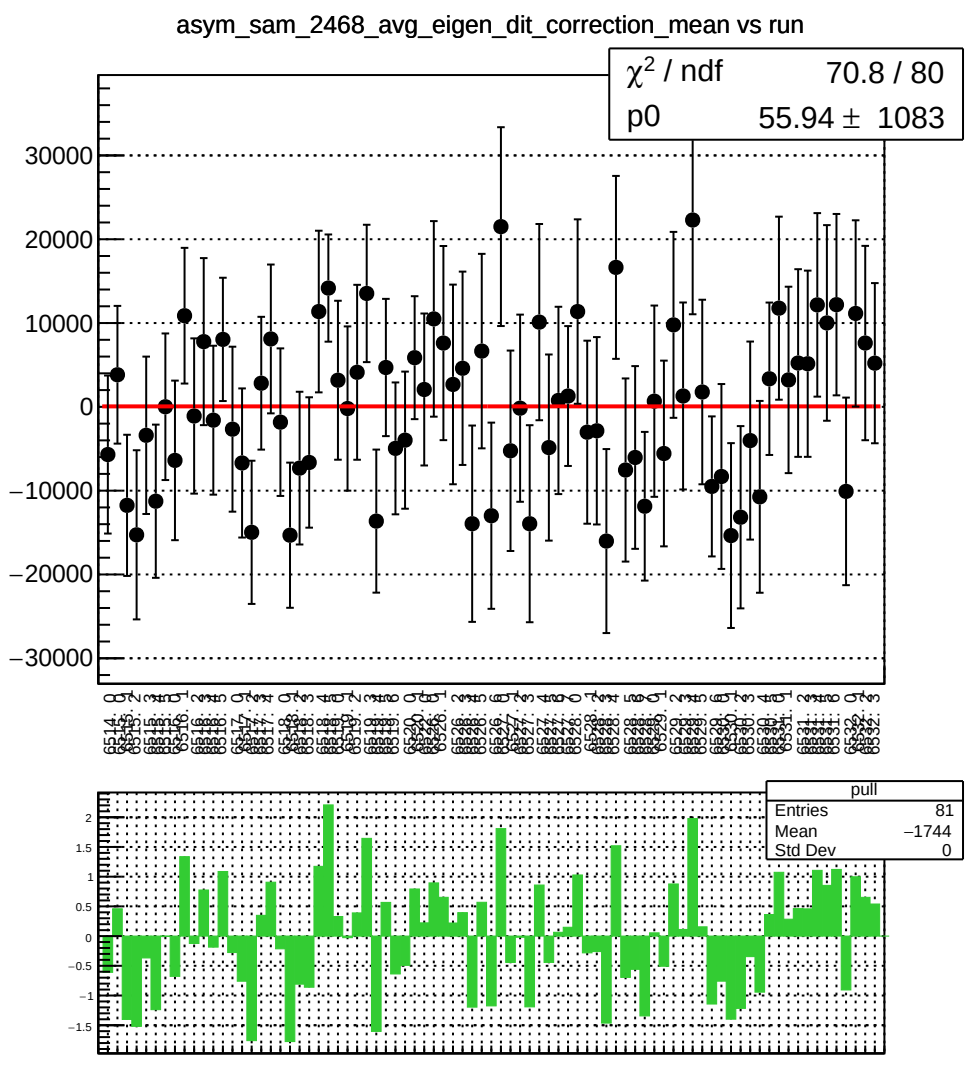

asym_sam_2468_avg_dit_correction_mean vs run
χ² / ndf 70.8 / 80
p0 55.94 ± 1083
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean −1744
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

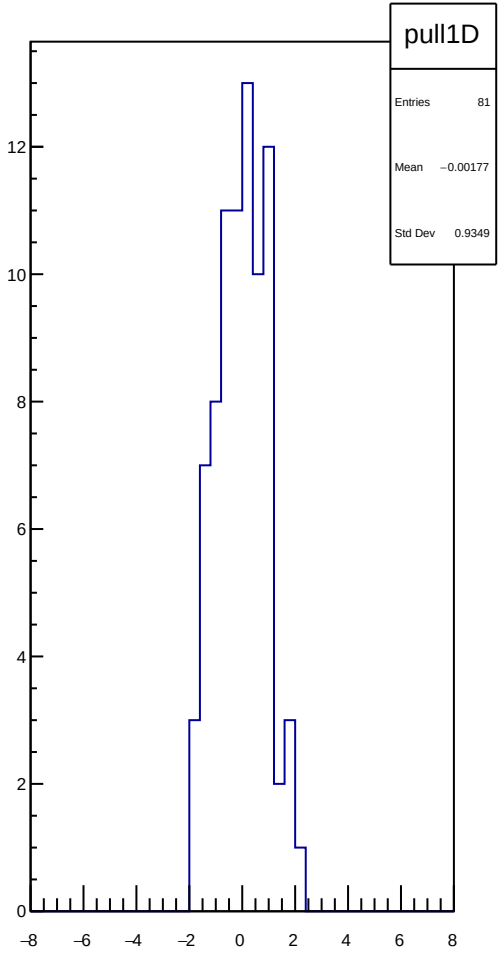

pull1D
Entries 81
Mean −0.00177
Std Dev 0.9349
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

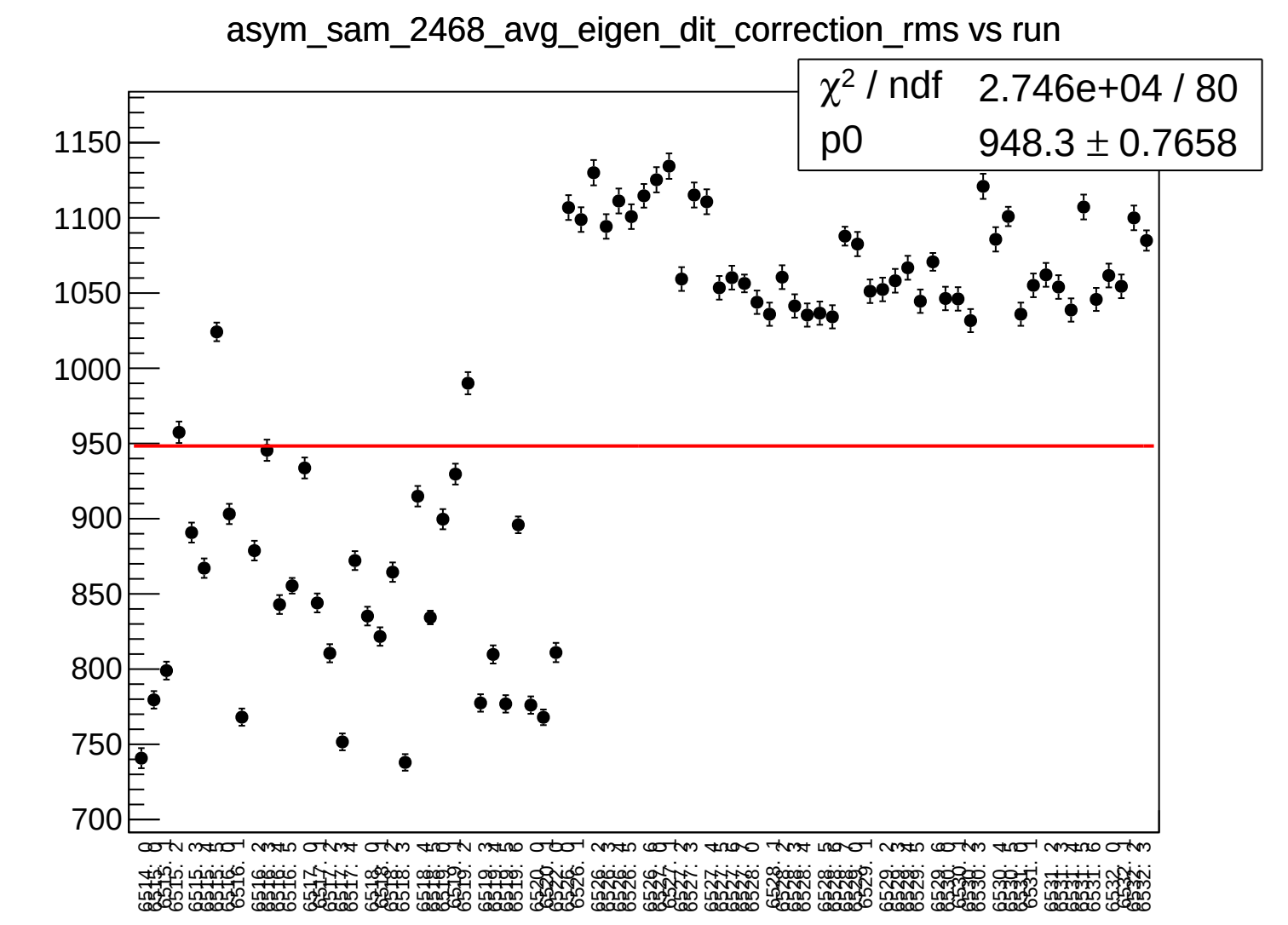

asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 2.746e+04 / 80
p0 948.3 ± 0.7658
1150
1100
1050
1000
950
900
850
800
750
700

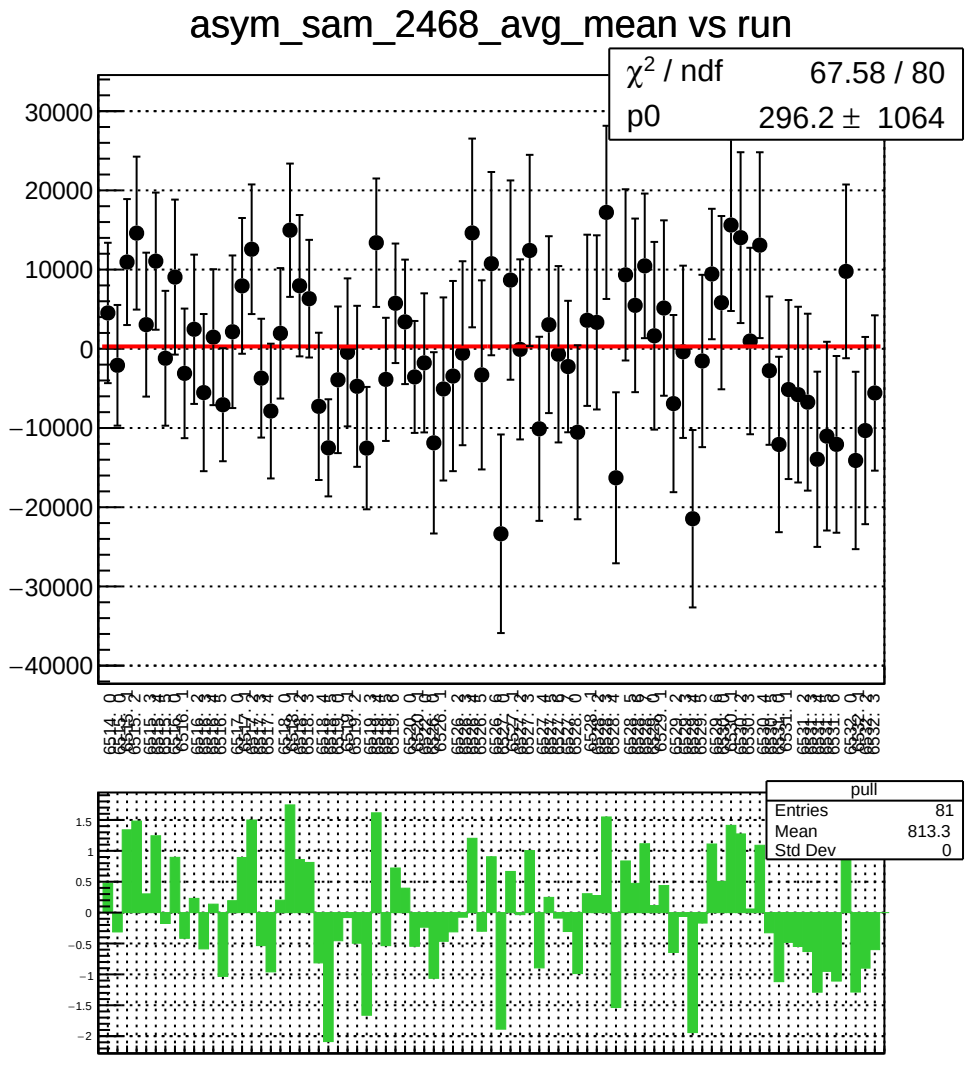

eigen_dit_asym_sam_2468_avg_mean vs run
χ² / ndf 104.8 / 80
p0 146.2 ± 143.2
pull
Entries 81
Mean −384.2
Std Dev 0
pull1D
Entries 81
Mean 0.01365
Std Dev 1.138

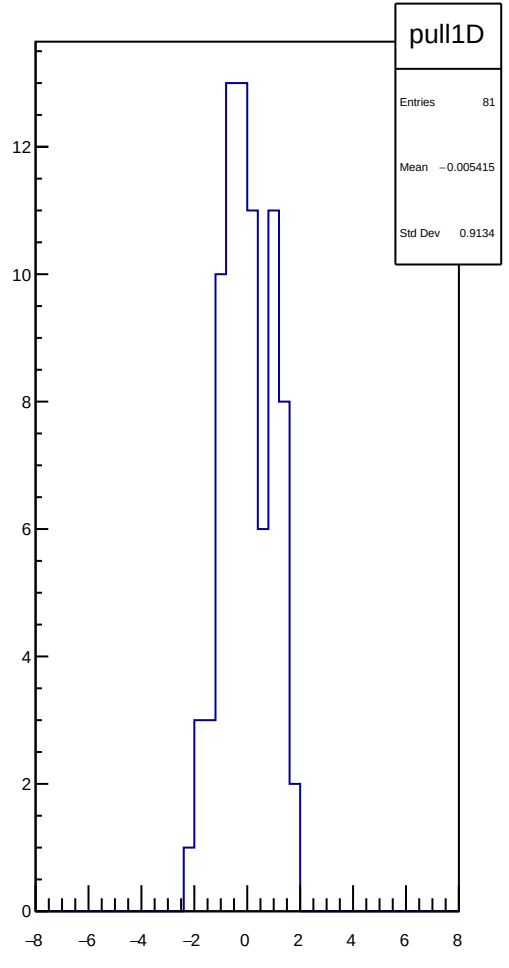

eigen_dit_asym_sam_2468_avg_rms vs run
χ² / ndf 5.375e+04 / 80
p0 124.3 ± 0.1013
220
200
180
160
140
120
100

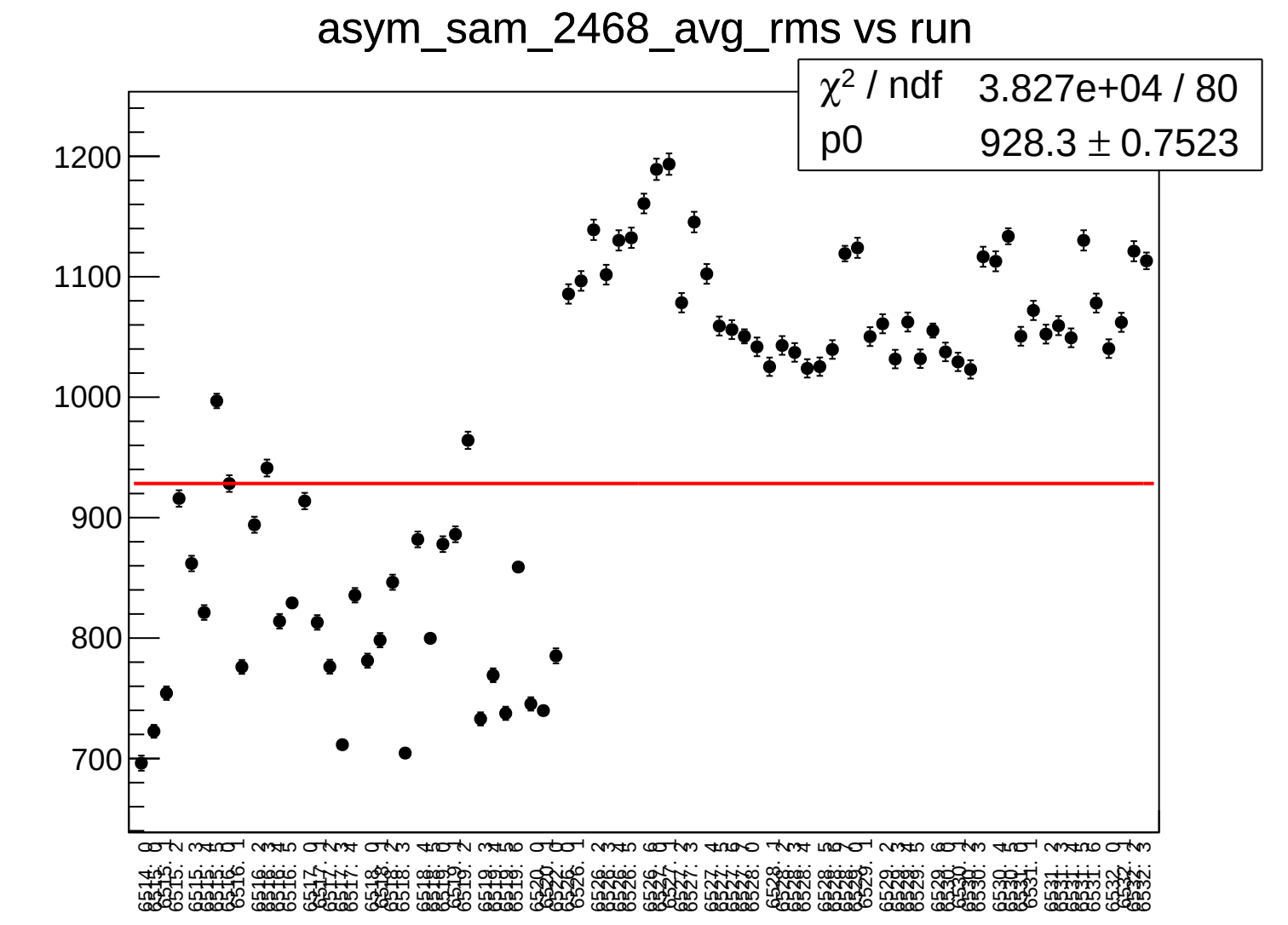

asym_sam_2468_avg_eigen_dit_correction_mean vs run
χ² / ndf 70.8 / 80
p0 55.94 ± 1083
pull
Entries 81
Mean −1744
Std Dev 0

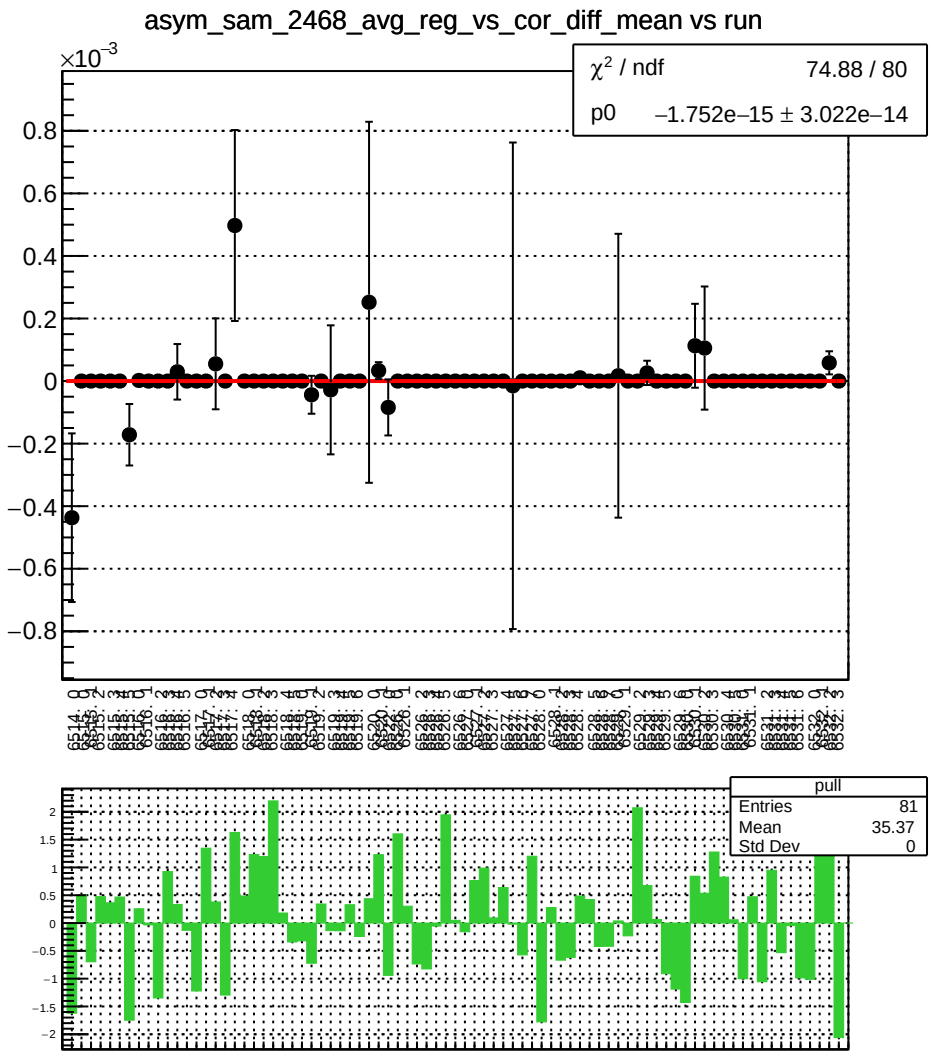

pull1D
Entries 81
Mean −0.00177
Std Dev 0.9349

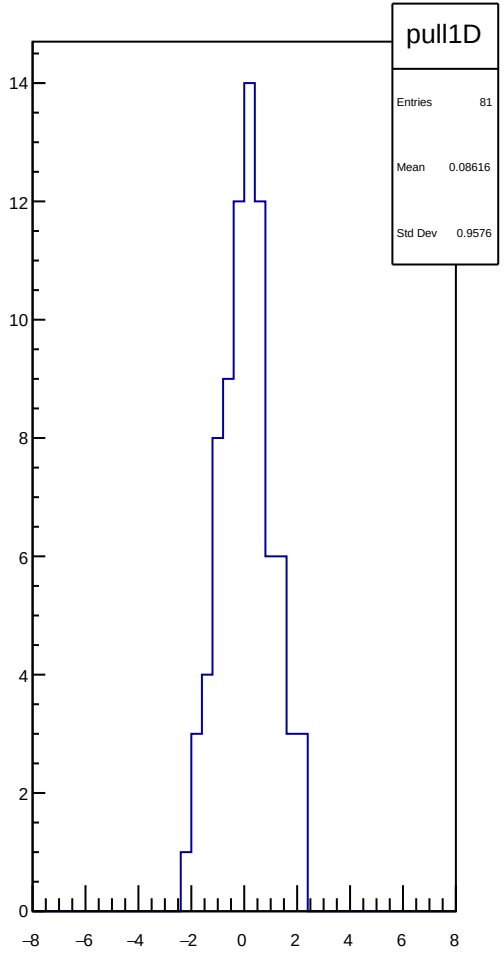

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.746e+04 / 80
p0 948.3 ± 0.7658
1150
1100
1050
1000
950
900
850
800
750
700

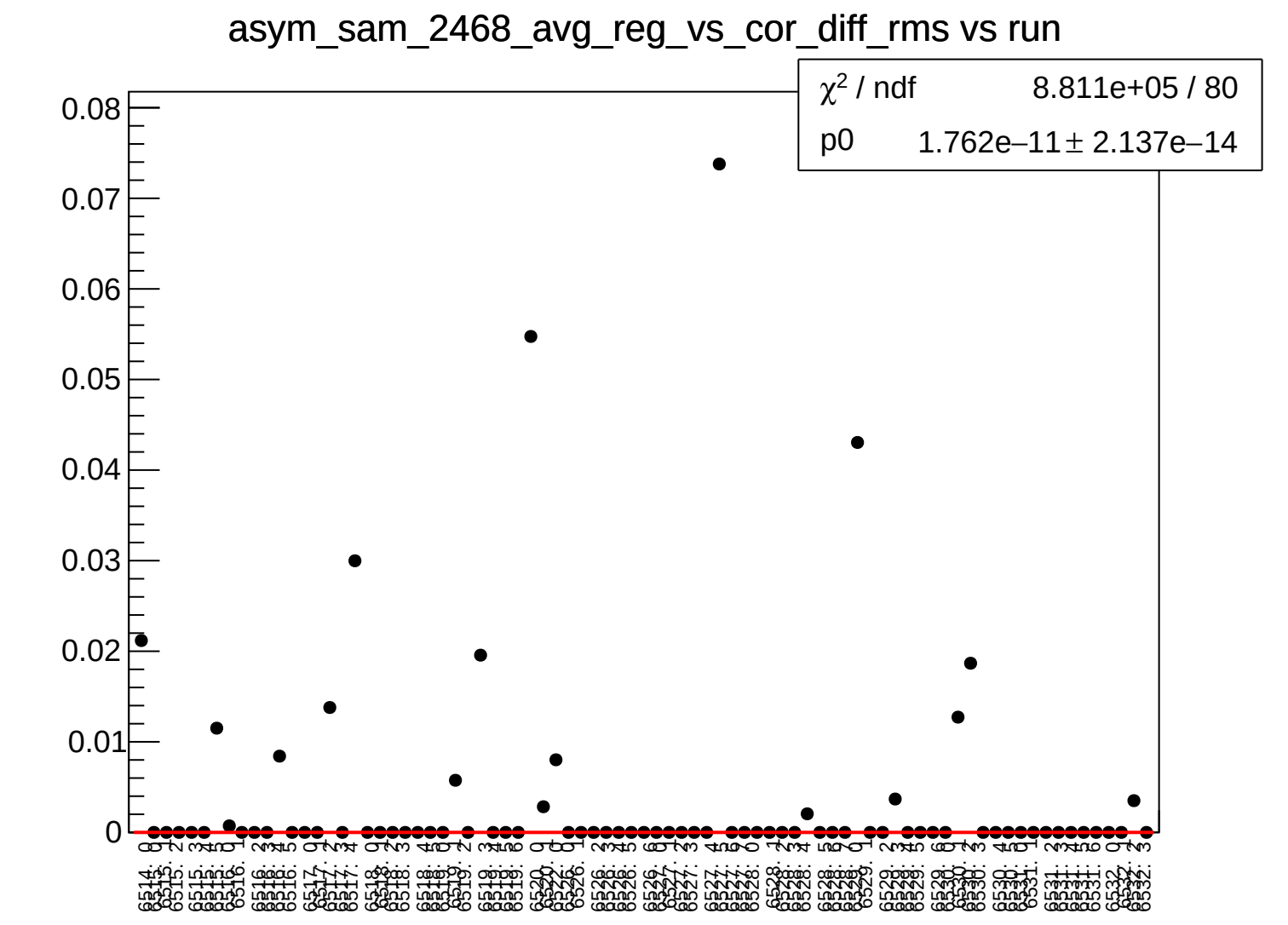

asym_sam_2468_avg_mean vs run
χ² / ndf 67.58 / 80
p0 296.2 ± 1064
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 81
Mean 813.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

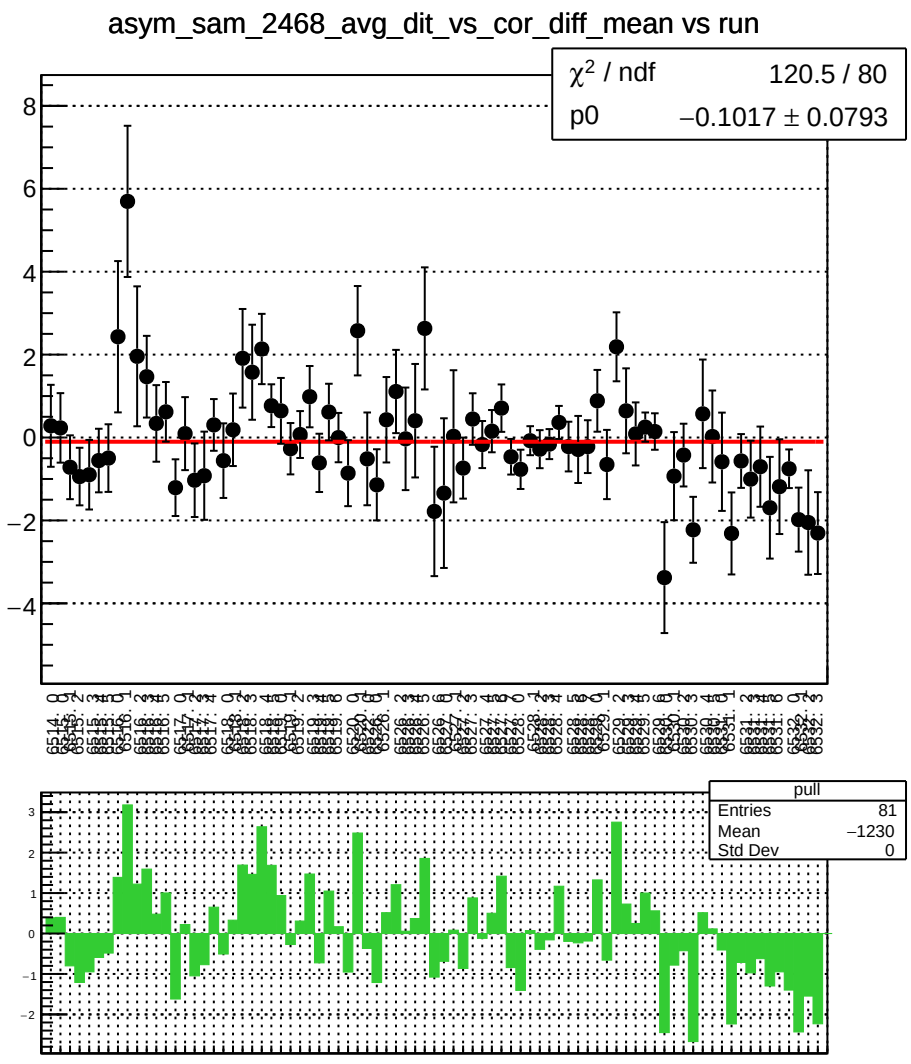

pull1D
Entries 81
Mean −0.005415
Std Dev 0.9134
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

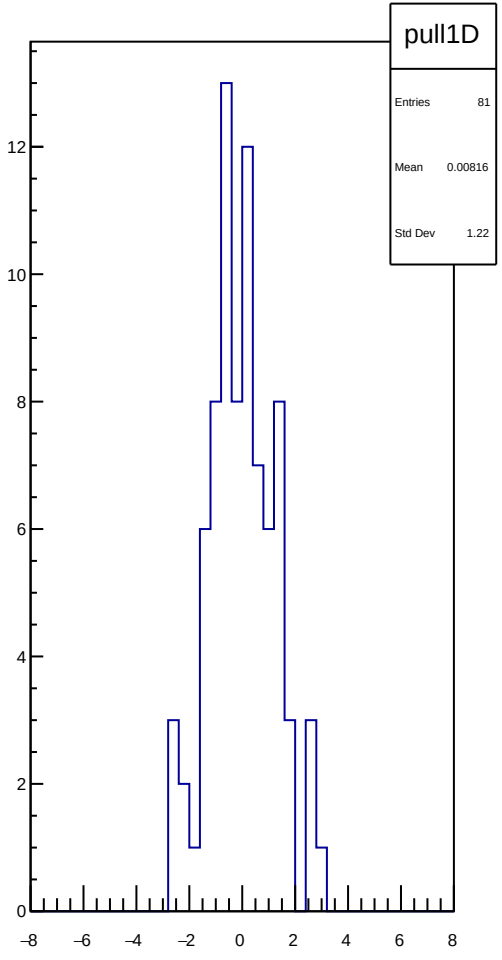

asym_sam_2468_avg_rms vs run
χ² / ndf 3.827e+04 / 80
p0 928.3 ± 0.7523
1200
1100
1000
900
800
700

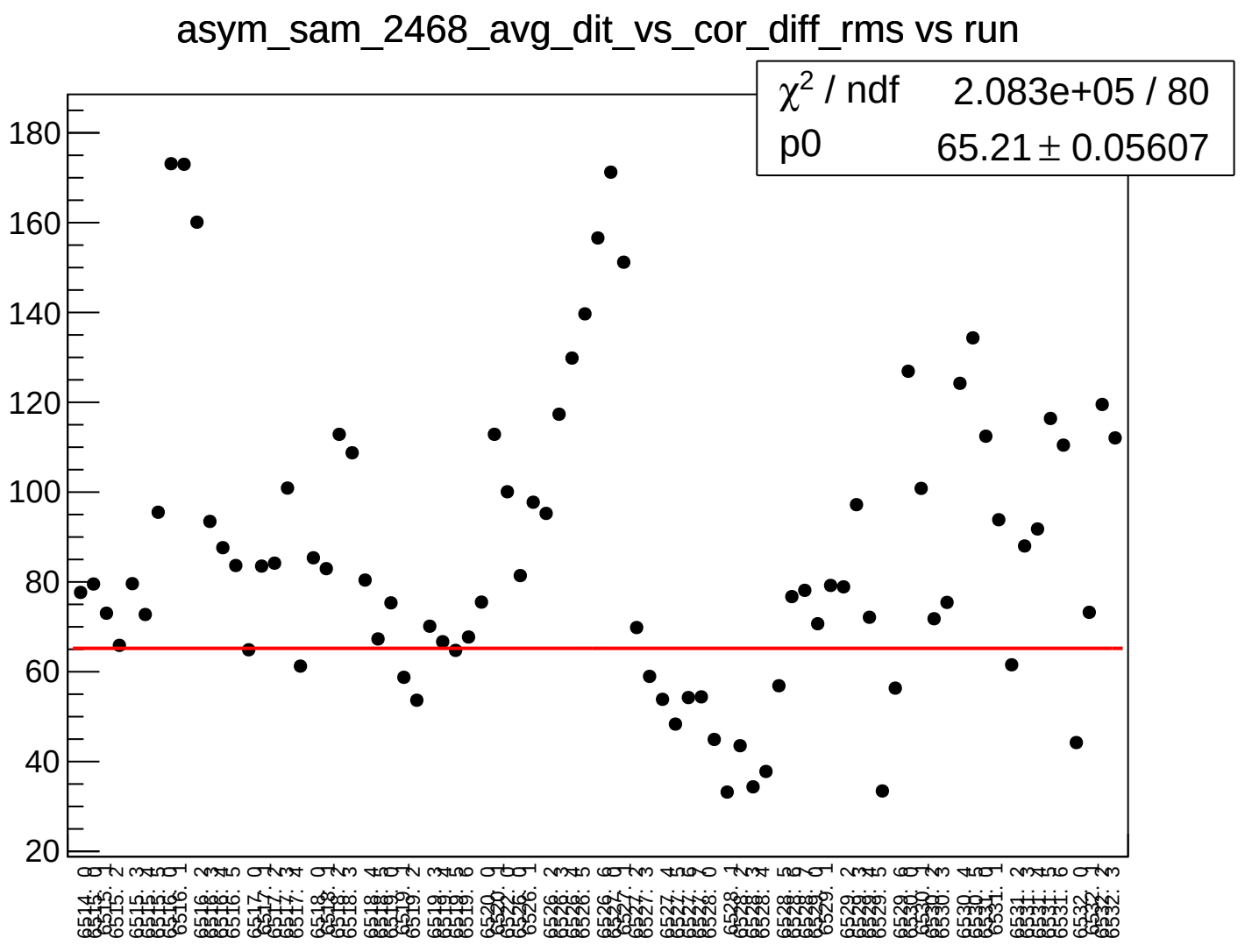

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 74.88 / 80
p0 −1.752e−15 ± 3.022e−14
pull
Entries 81
Mean 35.37
Std Dev 0

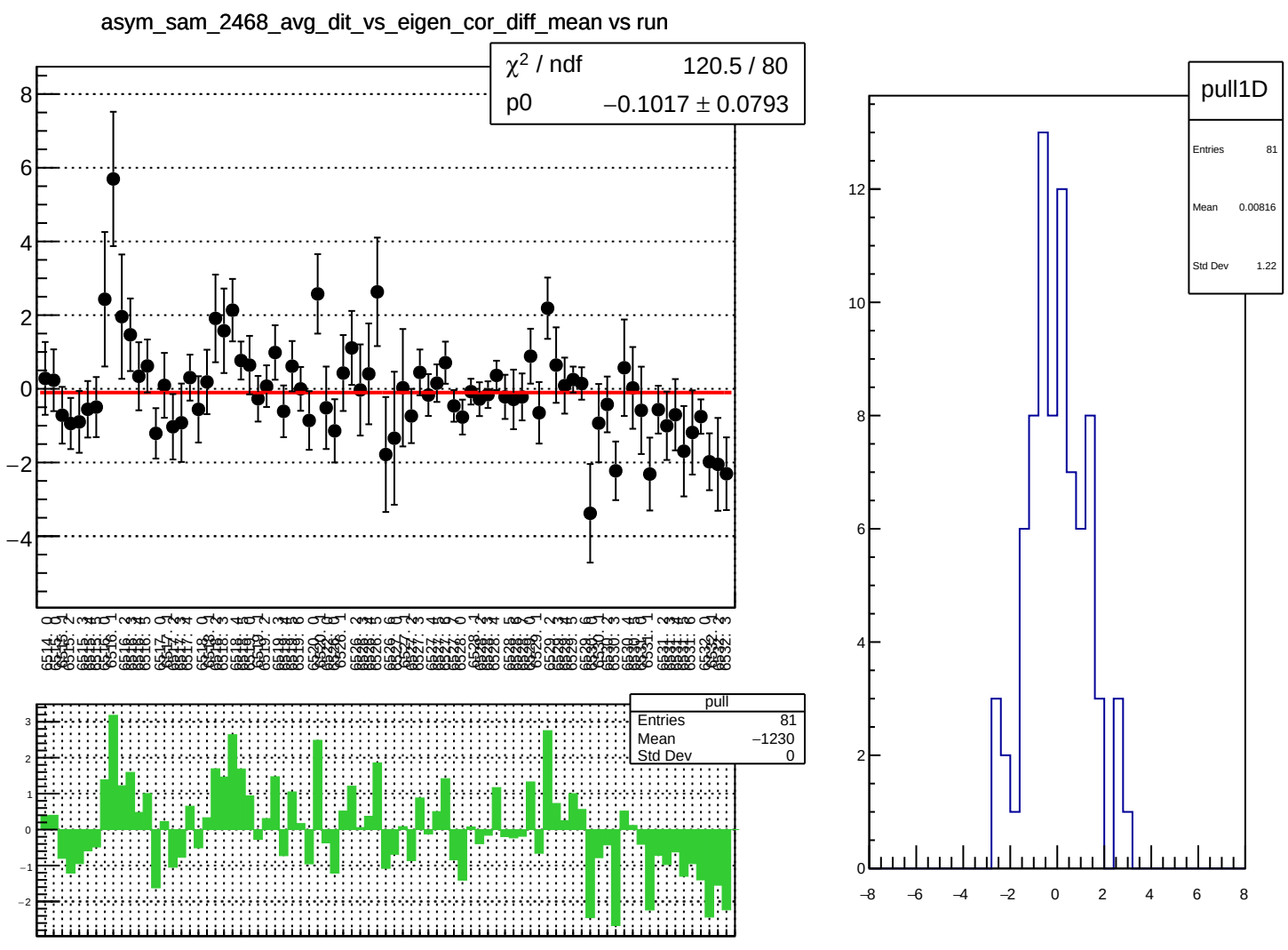

pull1D
Entries 81
Mean 0.08616
Std Dev 0.9576

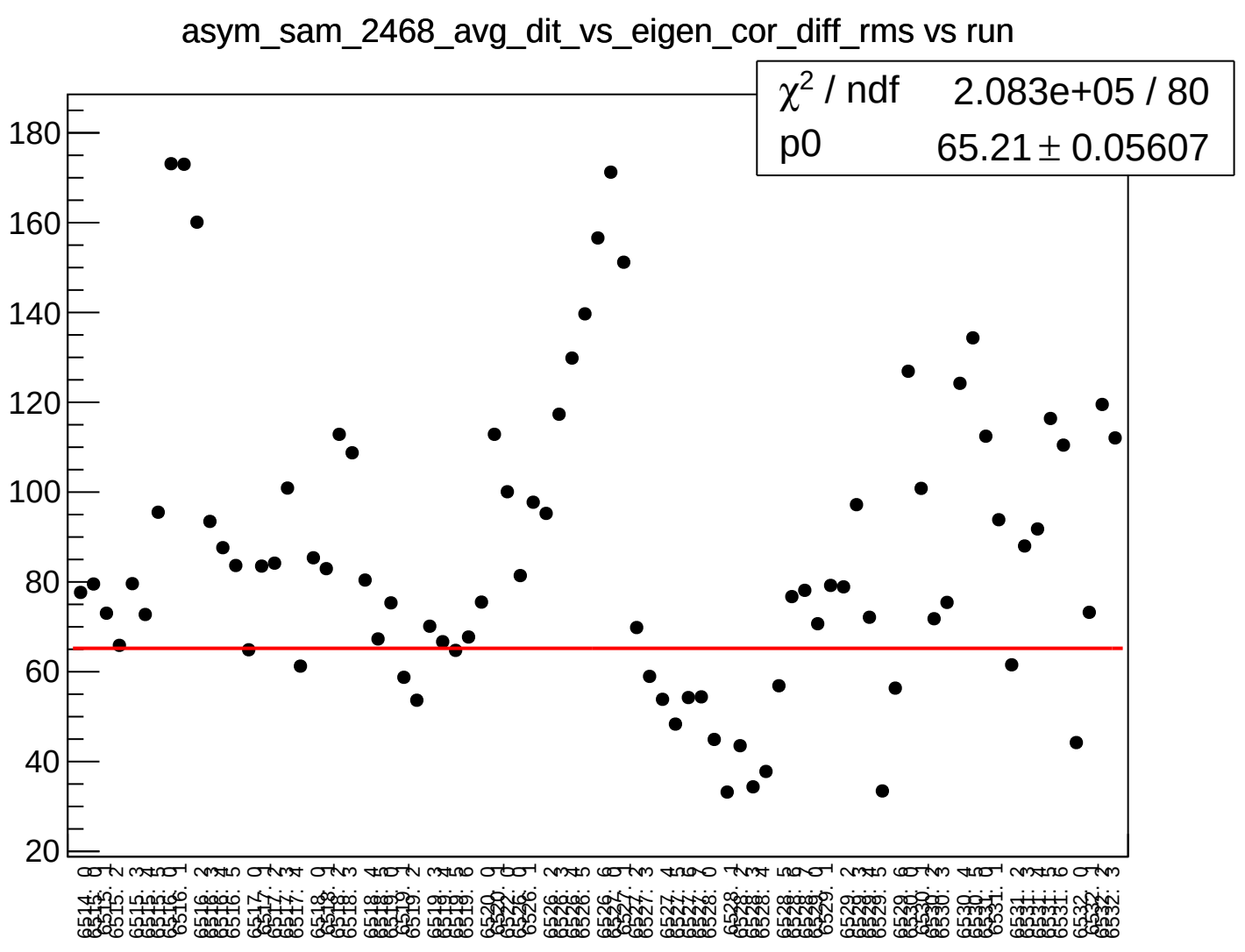

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.811e+05 / 80
p0 1.762e−11 ± 2.137e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

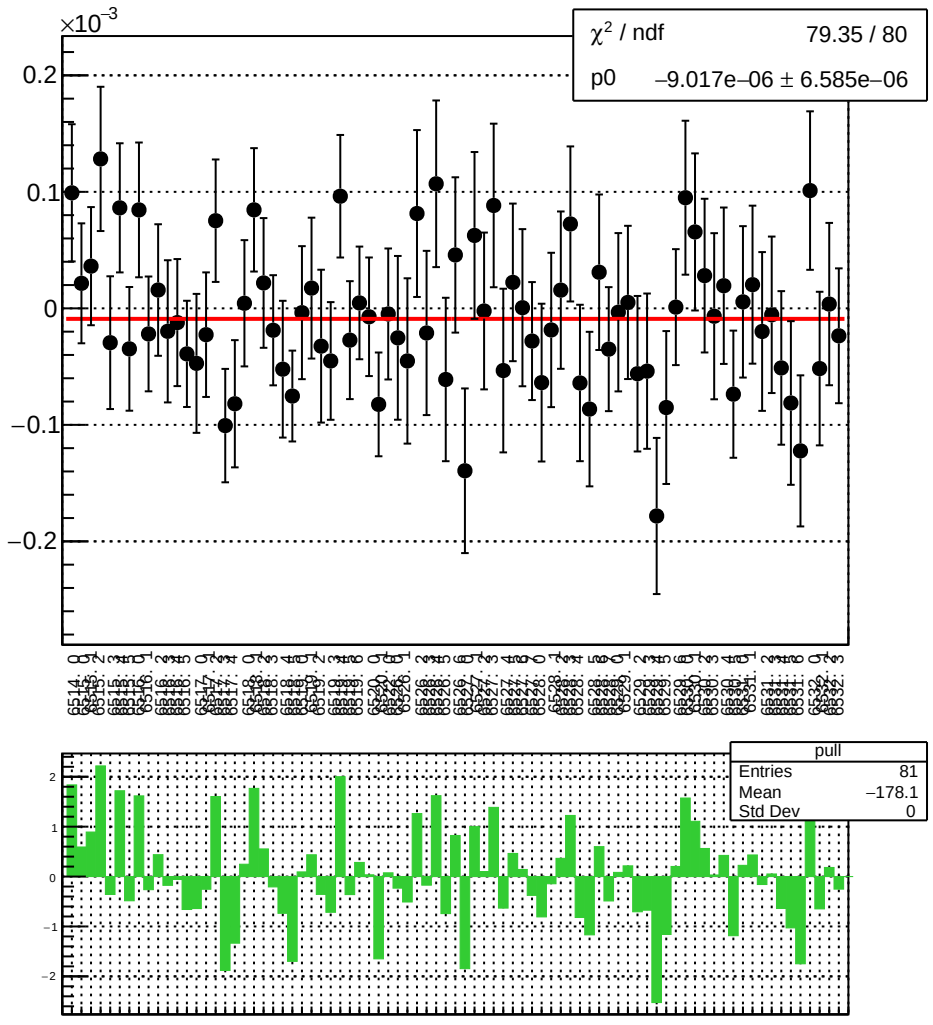

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 120.5 / 80
p0 −0.1017 ± 0.0793
pull
Entries 81
Mean −1230
Std Dev 0

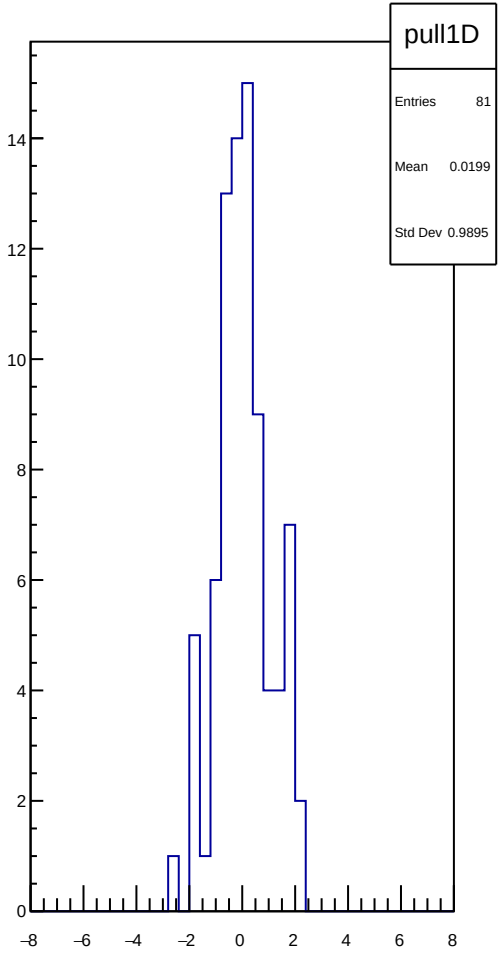

pull1D
Entries 81
Mean 0.00816
Std Dev 1.22

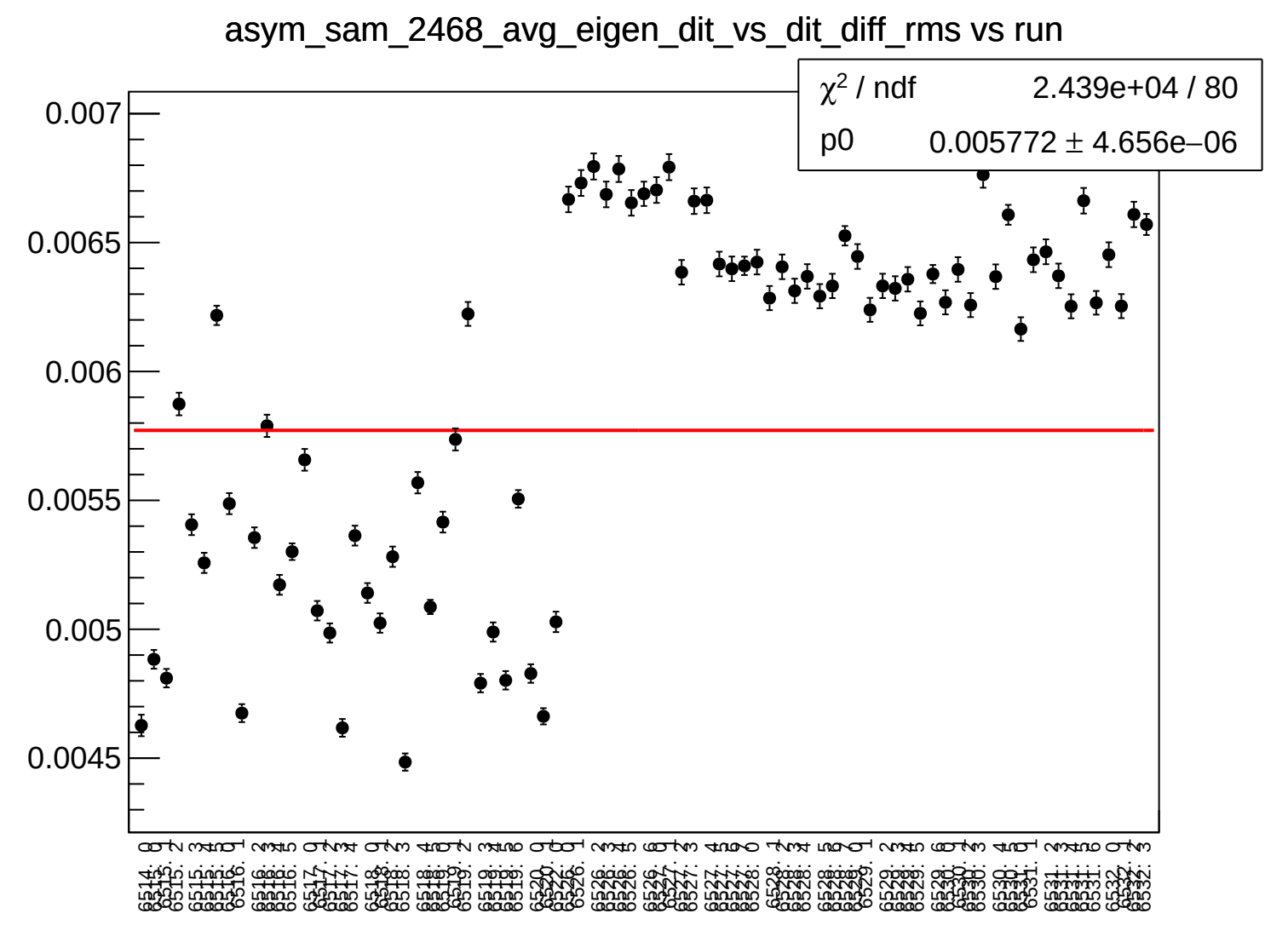

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.083e+05 / 80
p0 65.21 ± 0.05607
180
160
140
120
100
80
60
40
20

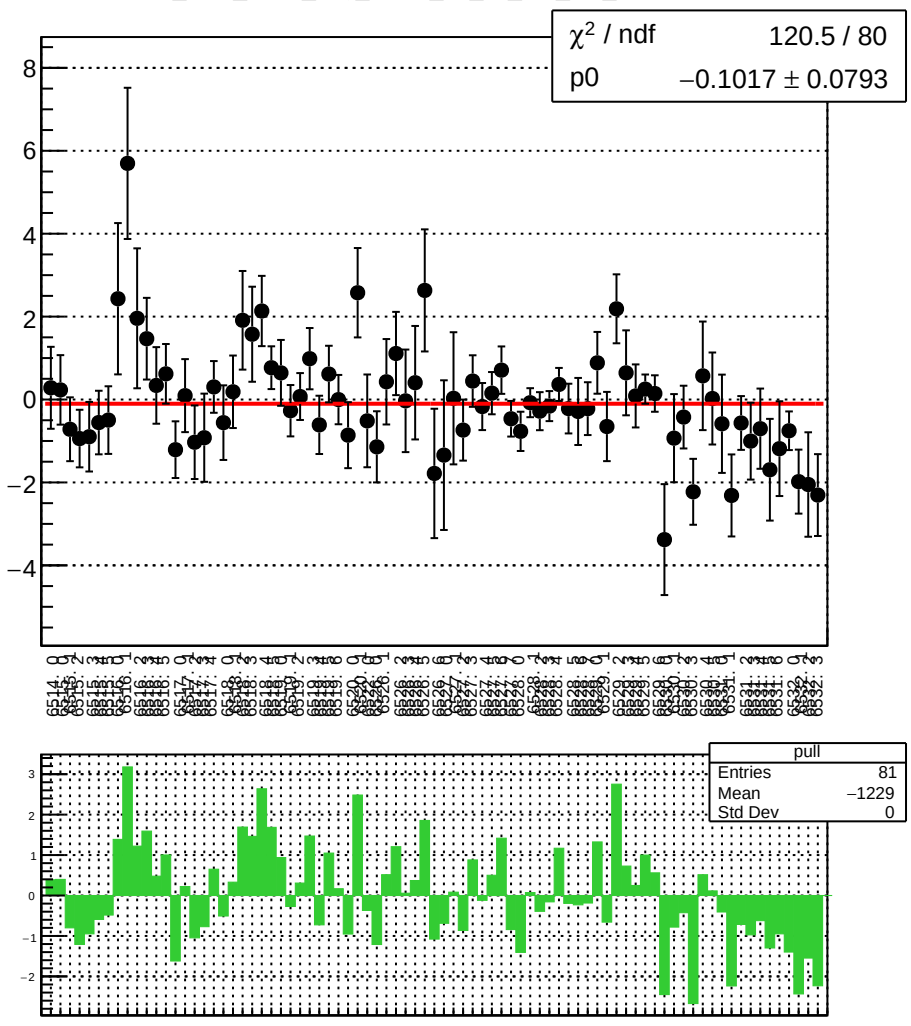

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 120.5 / 80
p0 −0.1017 ± 0.0793
pull
Entries 81
Mean −1230
Std Dev 0
pull1D
Entries 81
Mean 0.00816
Std Dev 1.22

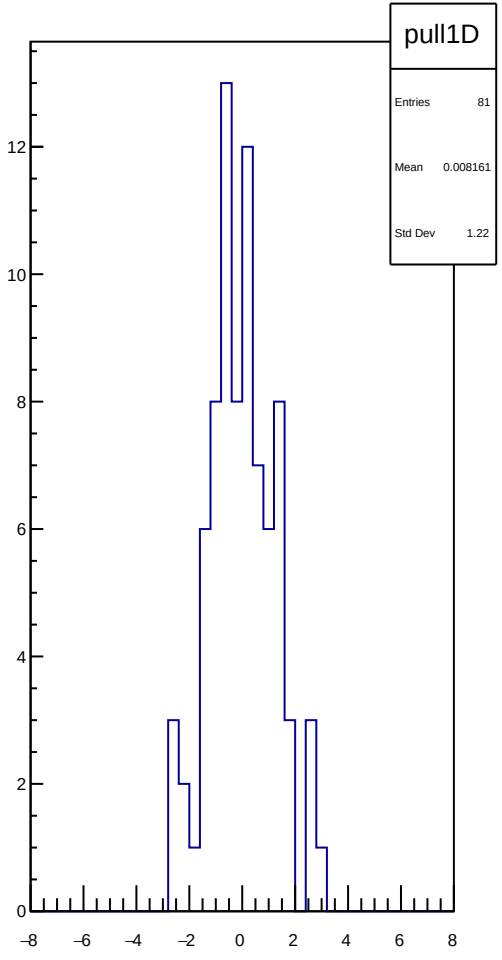

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.083e+05 / 80
p0 65.21 ± 0.05607
180
160
140
120
100
80
60
40
20

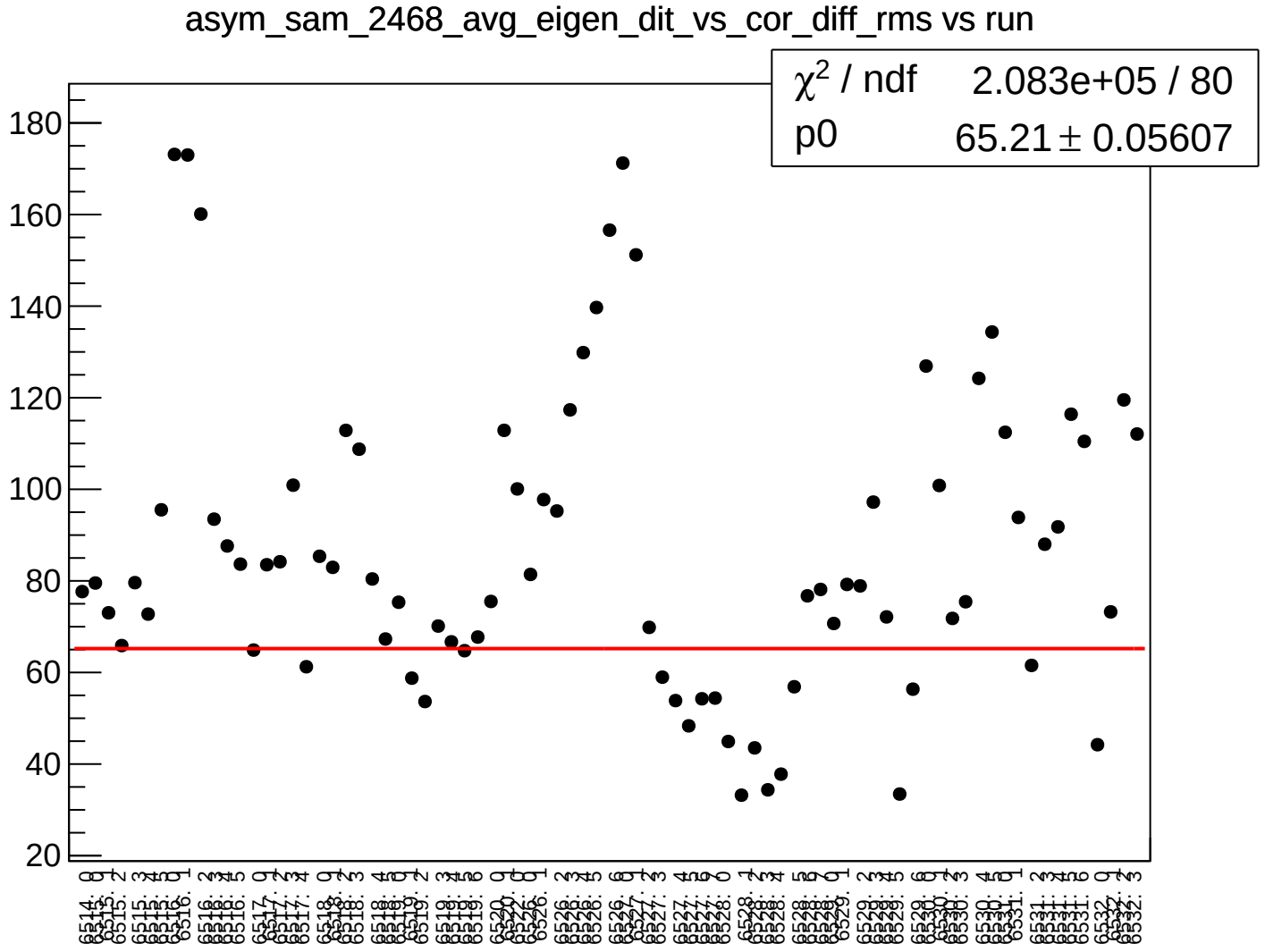

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79.35 / 80
p0 −9.017e−06 ± 6.585e−06
pull
Entries 81
Mean −178.1
Std Dev 0

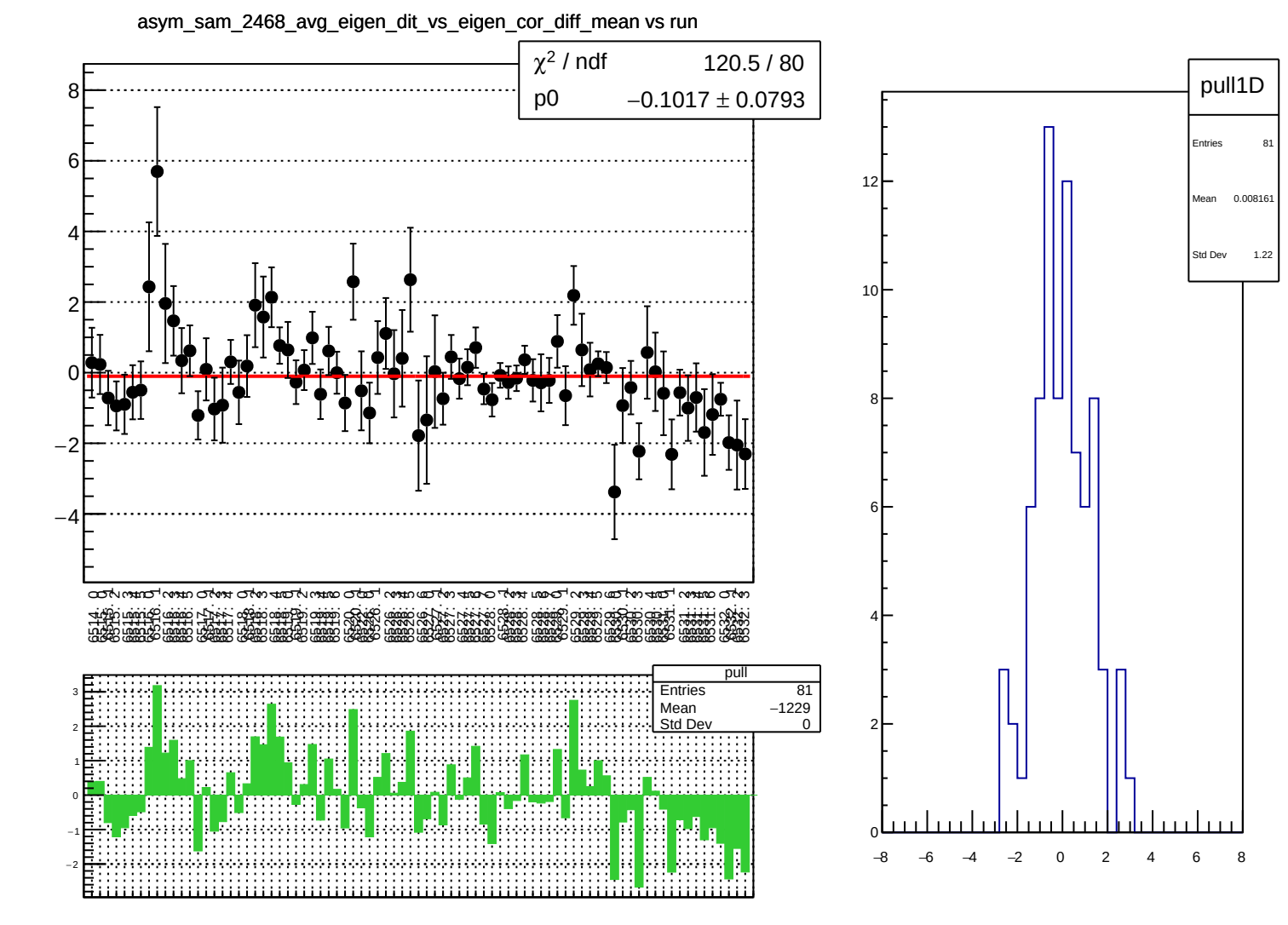

pull1D
Entries 81
Mean 0.0199
Std Dev 0.9895

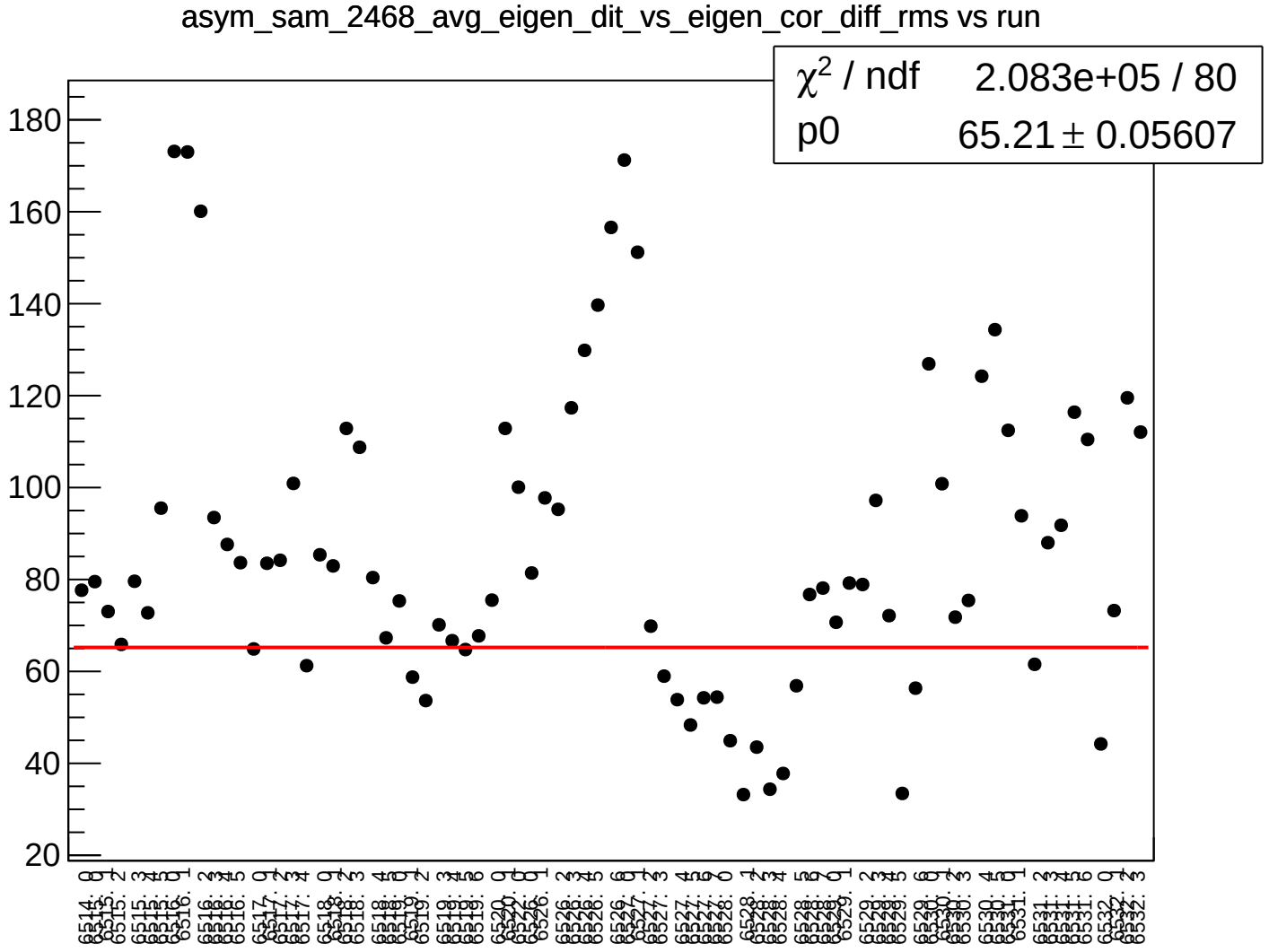

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.439e+04 / 80
p0 0.005772 ± 4.656e−06
0.007
0.0065
0.006
0.0055
0.005
0.0045

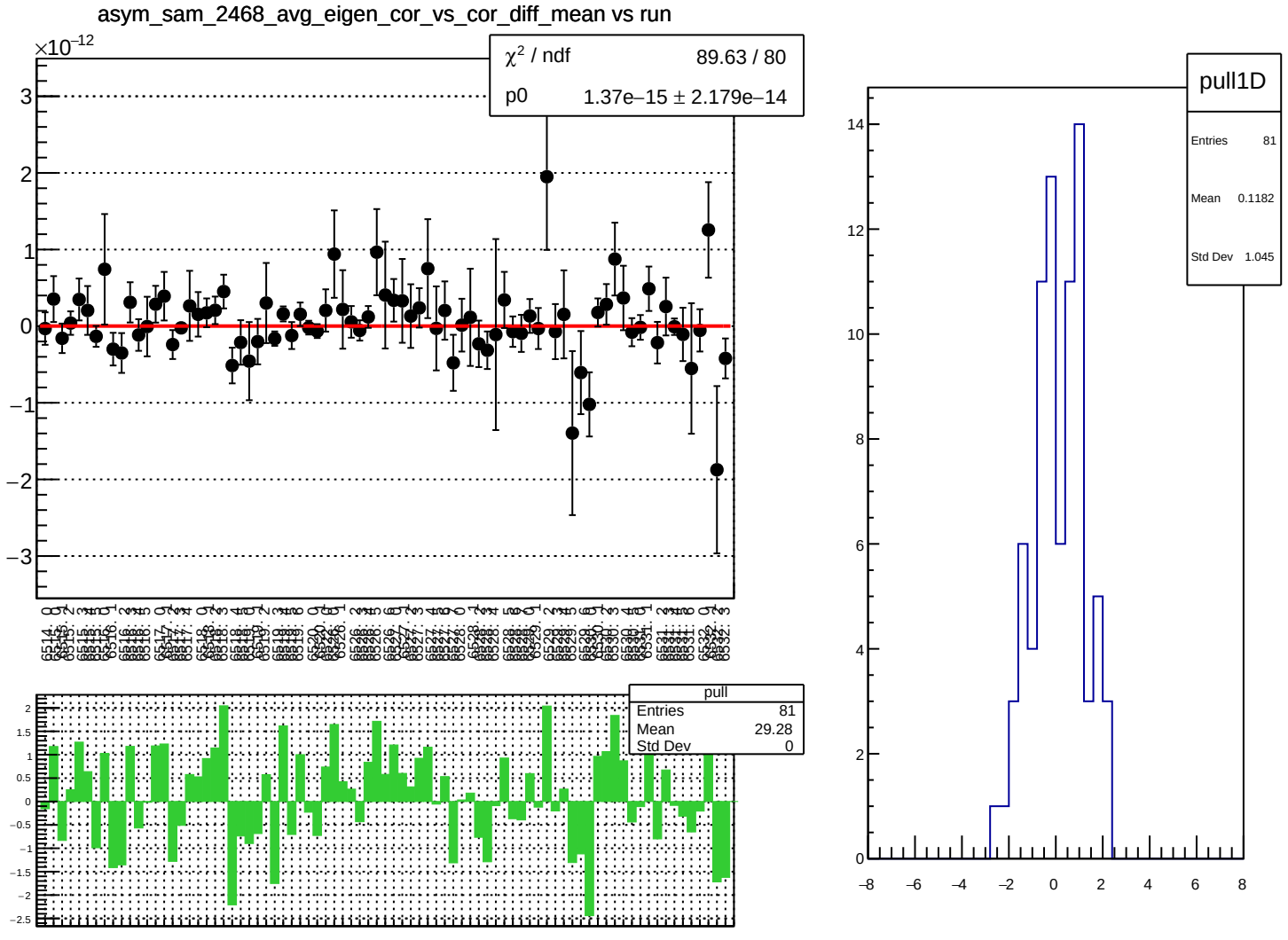

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 120.5 / 80
p0 −0.1017 ± 0.0793
pull
Entries 81
Mean −1229
Std Dev 0

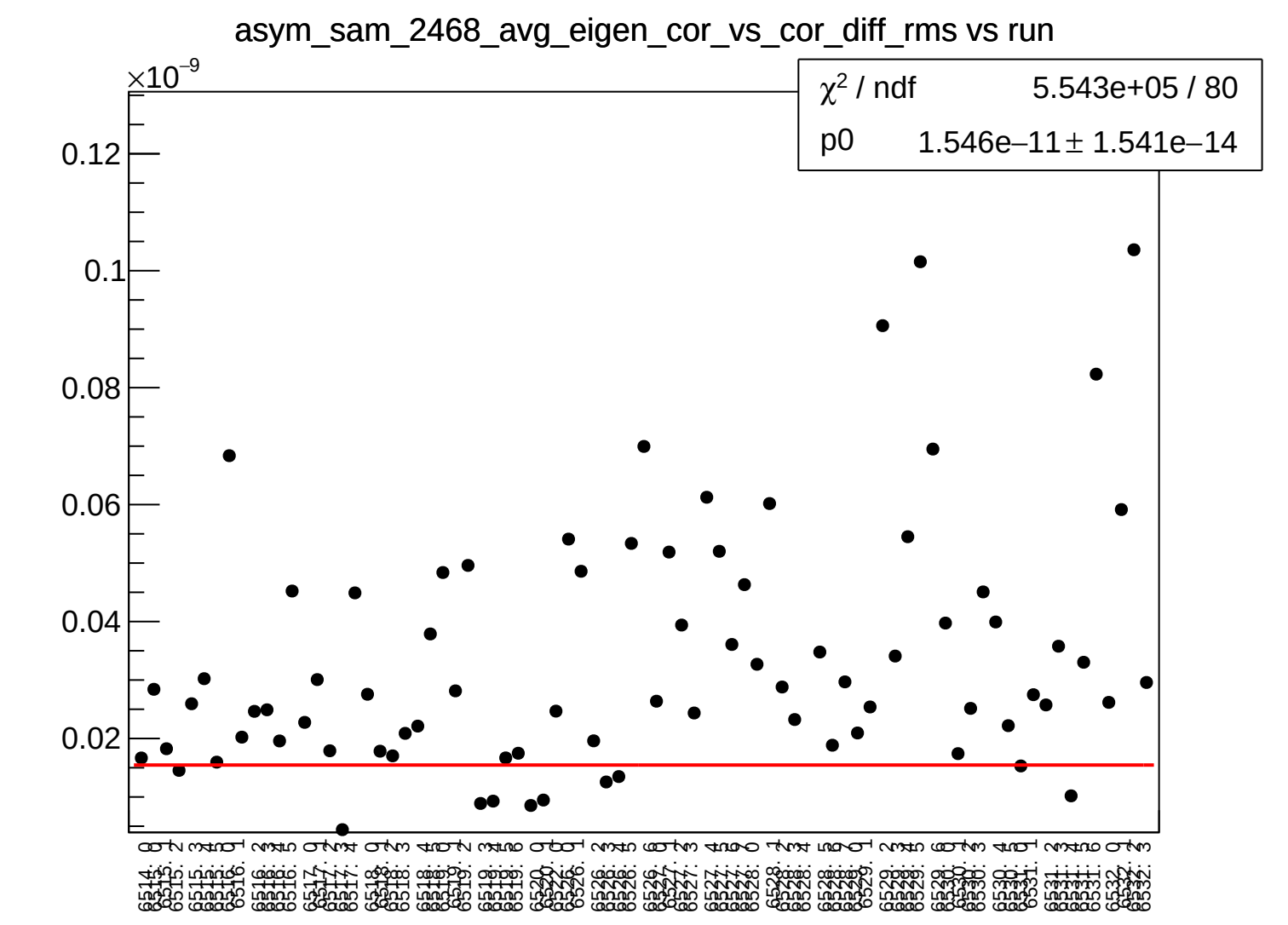

pull1D
Entries 81
Mean 0.008161
Std Dev 1.22

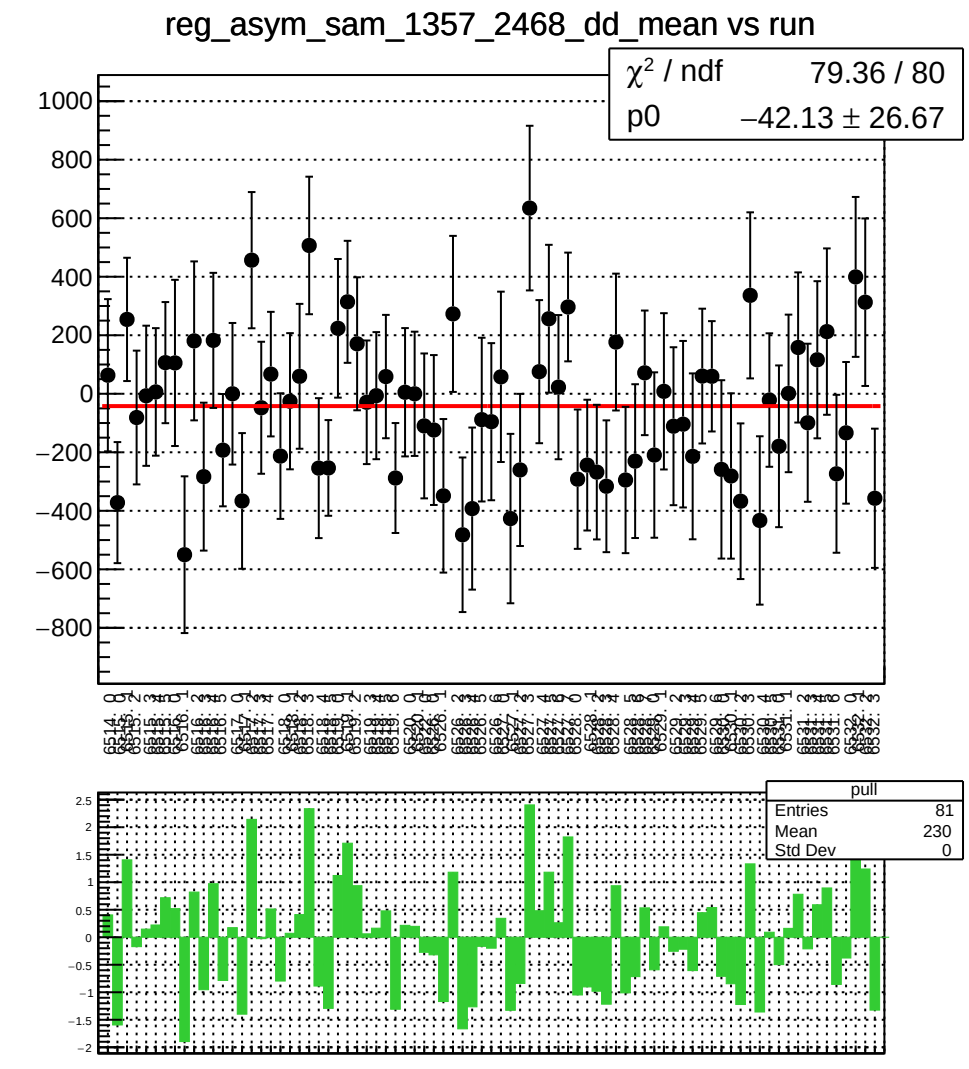

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.083e+05 / 80
p0 65.21 ± 0.05607
180
160
140
120
100
80
60
40
20

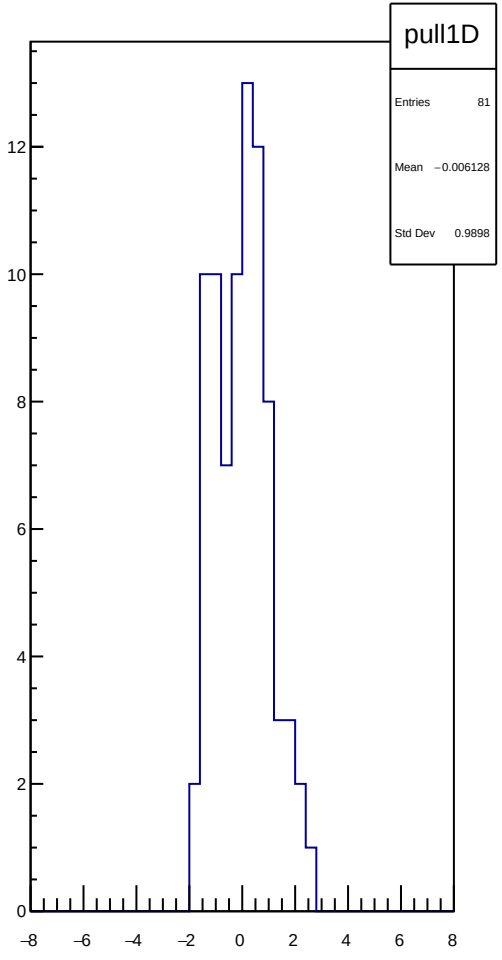

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 120.5 / 80
p0 −0.1017 ± 0.0793
pull
Entries 81
Mean −1229
Std Dev 0
pull1D
Entries 81
Mean 0.008161
Std Dev 1.22

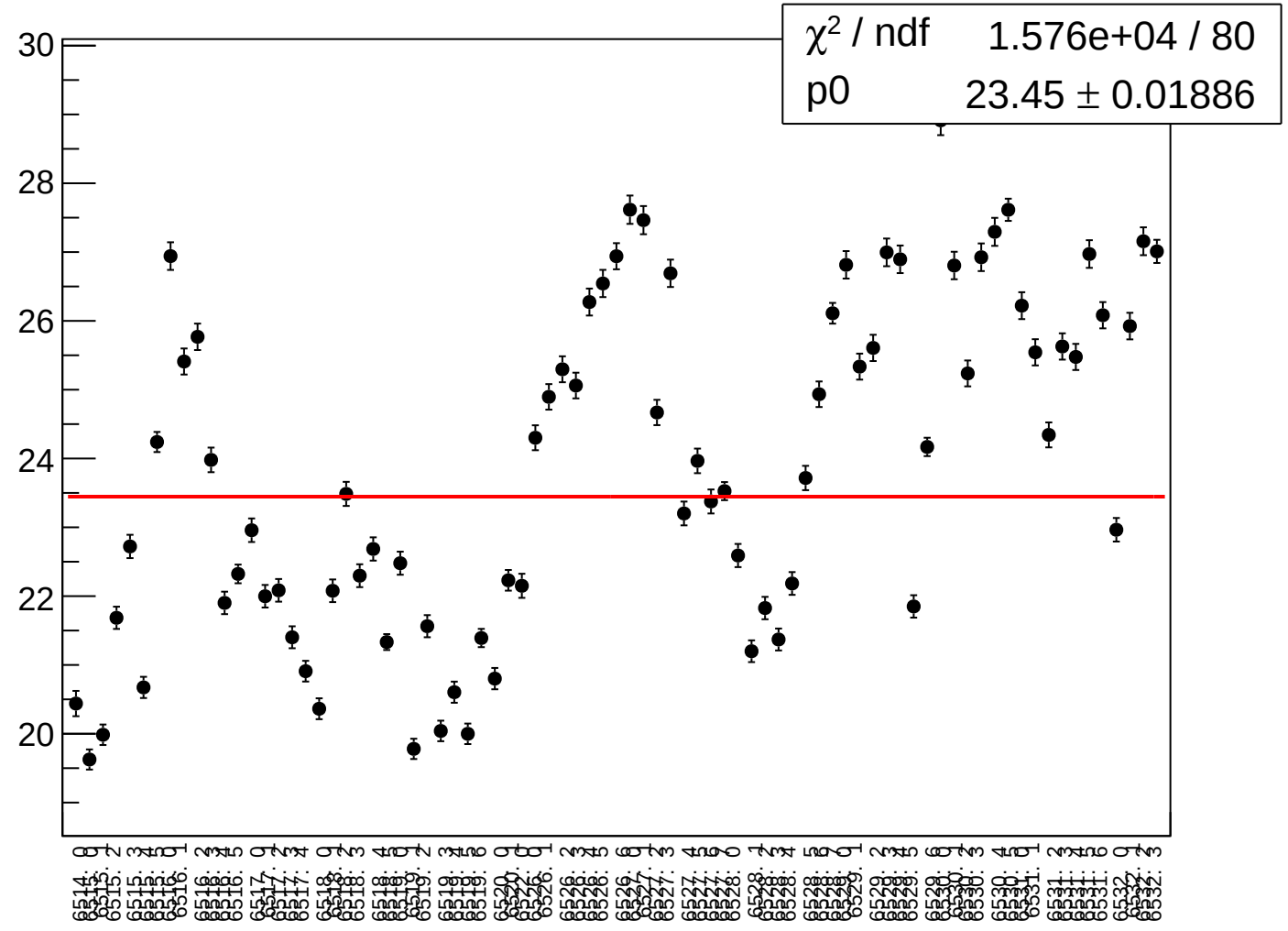

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.083e+05 / 80
p0 65.21 ± 0.05607
180
160
140
120
100
80
60
40
20

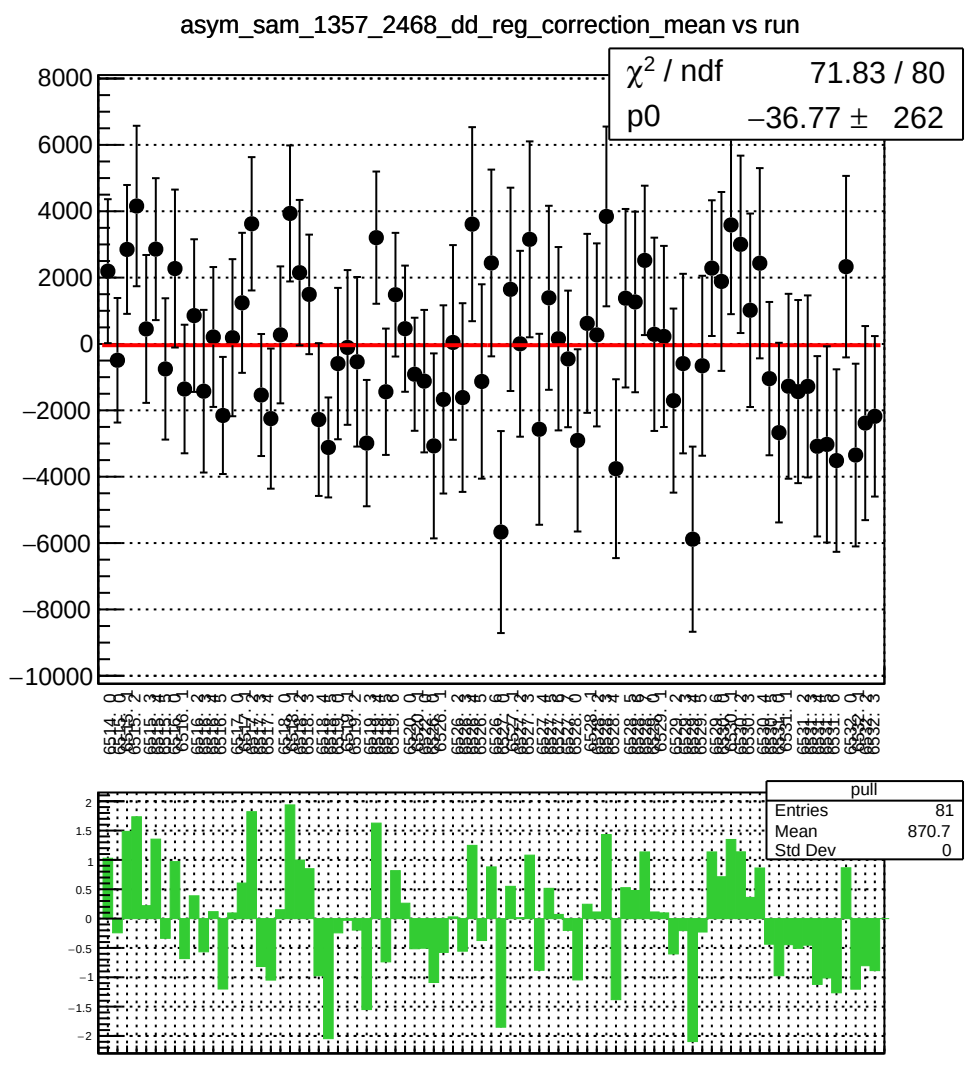

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.63 / 80
p0 1.37e−15 ± 2.179e−14
pull
Entries 81
Mean 29.28
Std Dev 0
pull1D
Entries 81
Mean 0.1182
Std Dev 1.045

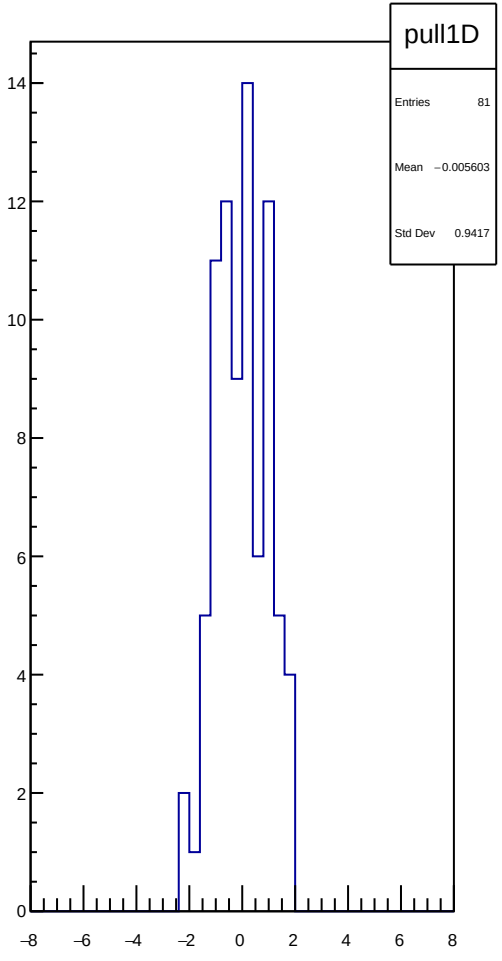

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.543e+05 / 80
p0 1.546e−11 ± 1.541e−14
0.12
0.1
0.08
0.06
0.04
0.02

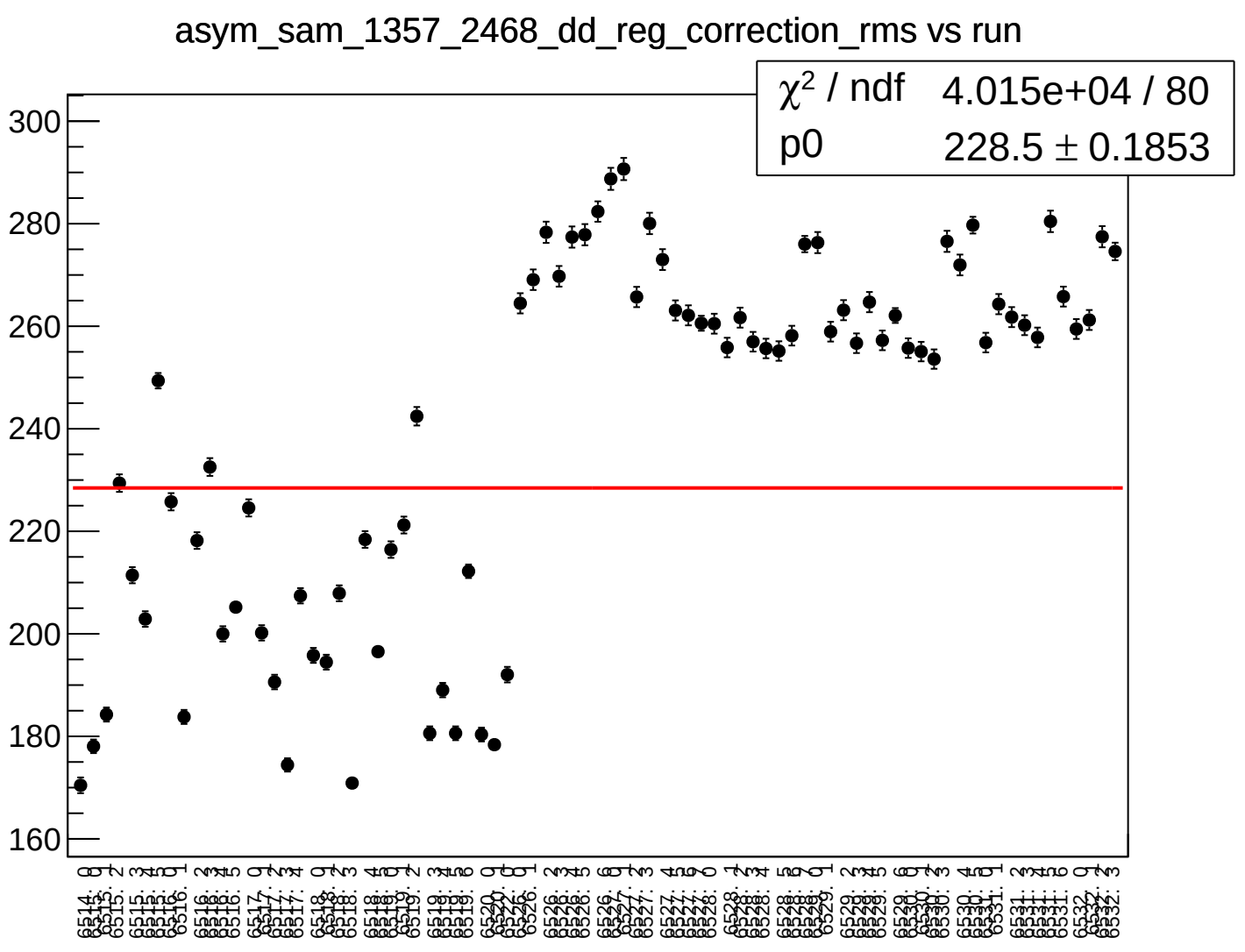

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 79.36 / 80
p0 −42.13 ± 26.67
pull
Entries 81
Mean 230
Std Dev 0

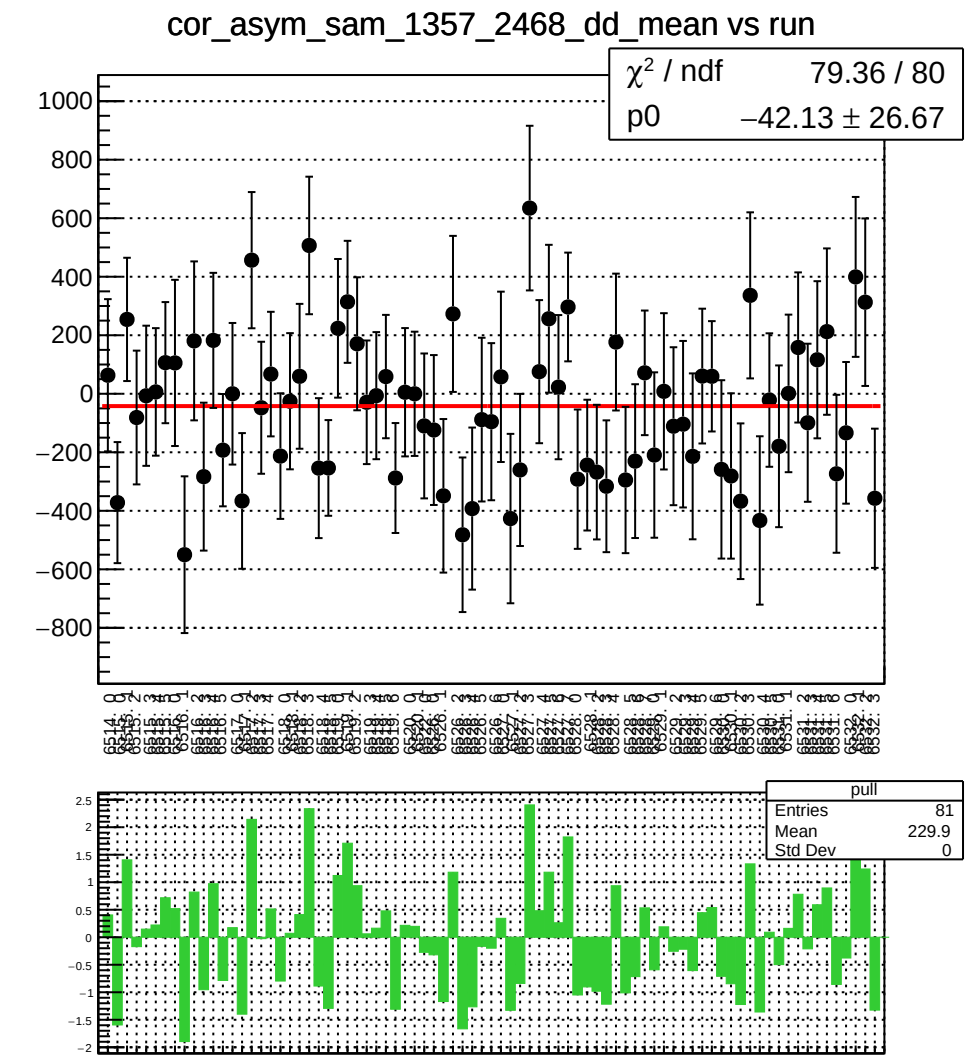

pull1D
Entries 81
Mean −0.006128
Std Dev 0.9898

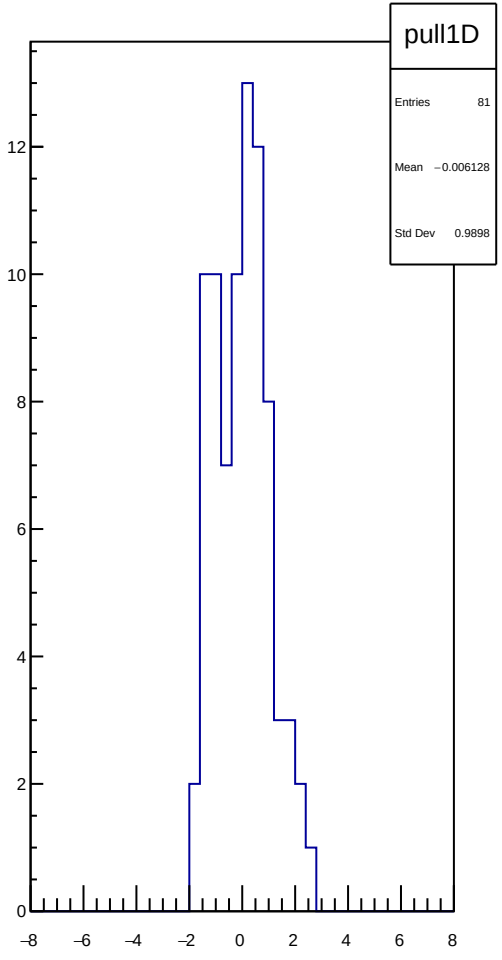

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.576e+04 / 80
p0 23.45 ± 0.01886
30
28
26
24
22
20

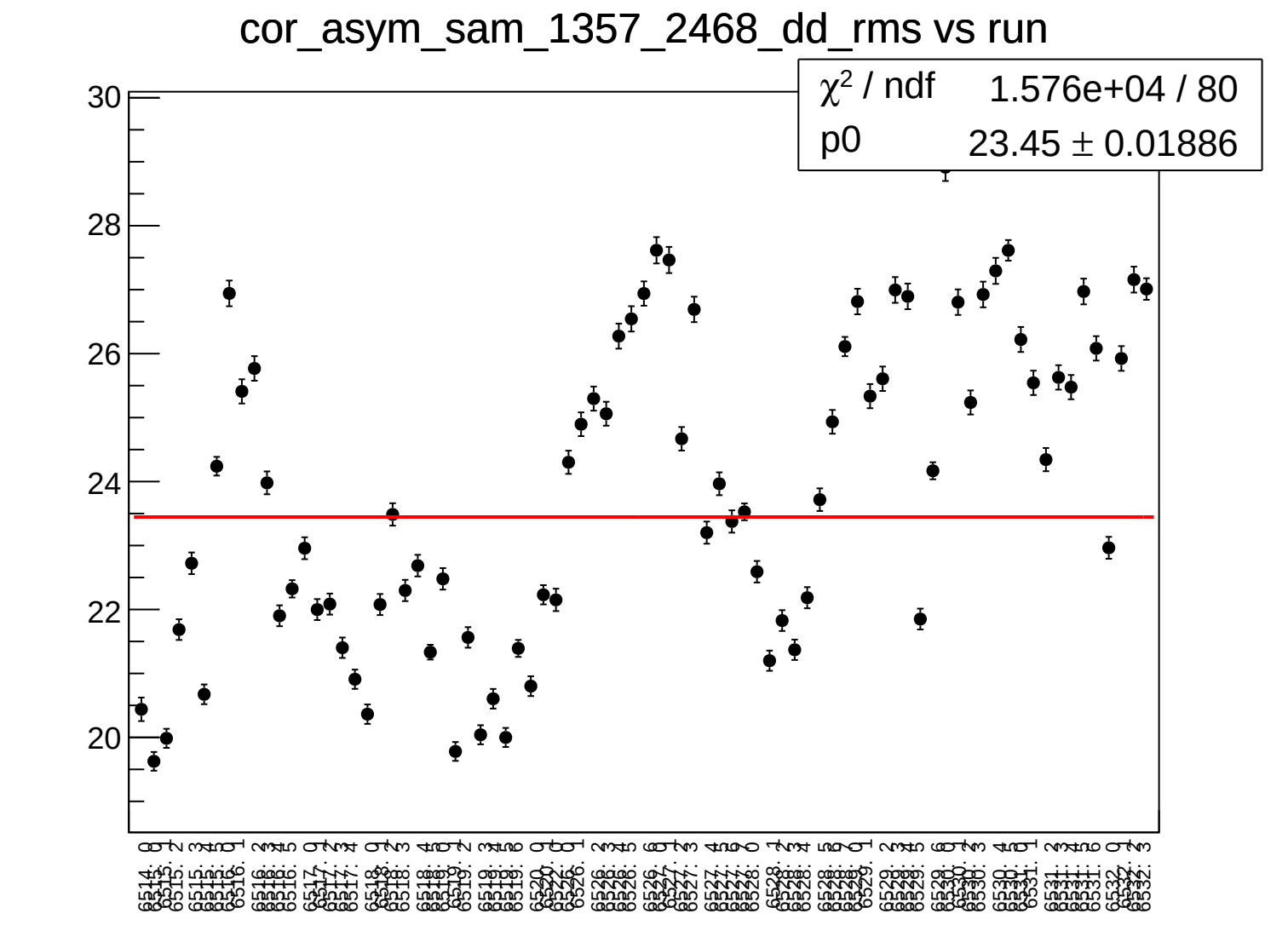

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 71.83 / 80
p0 −36.77 ± 262
pull
Entries 81
Mean 870.7
Std Dev 0

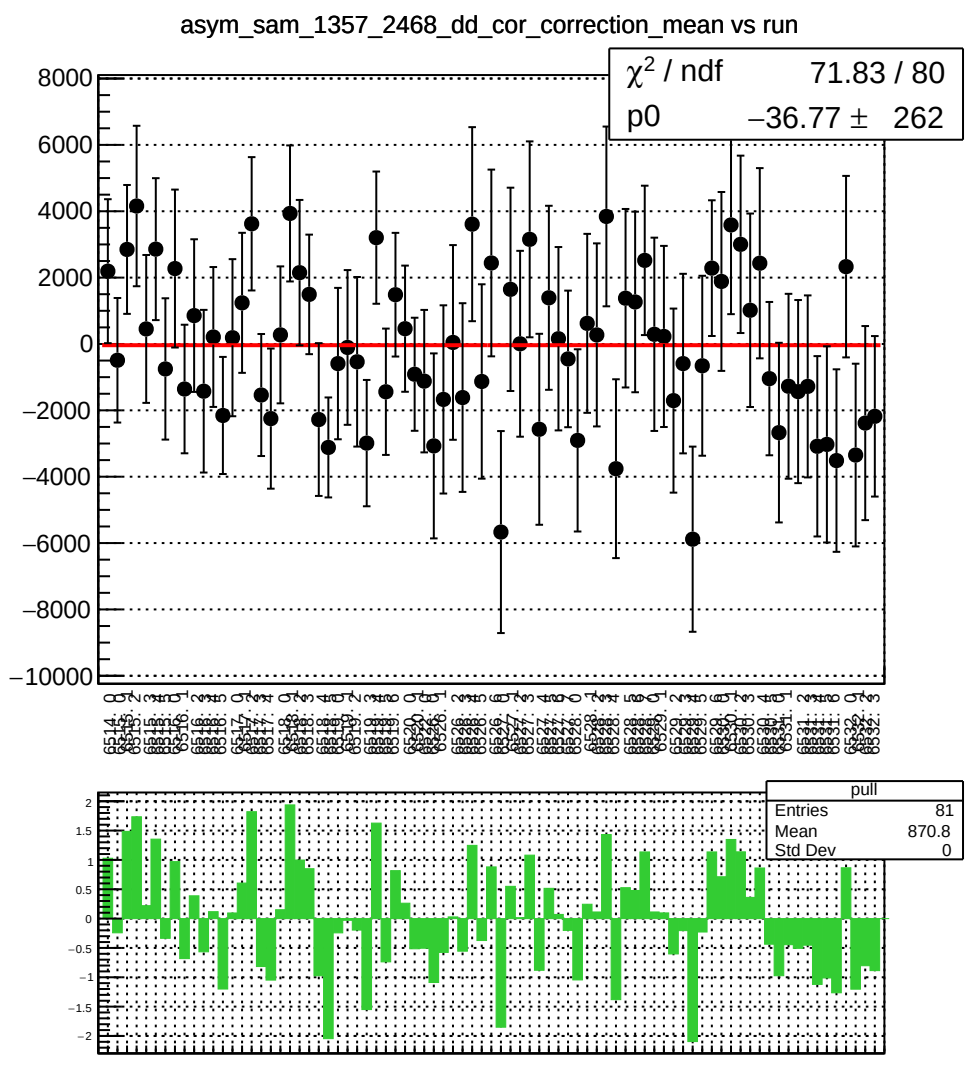

pull1D
Entries 81
Mean −0.005603
Std Dev 0.9417

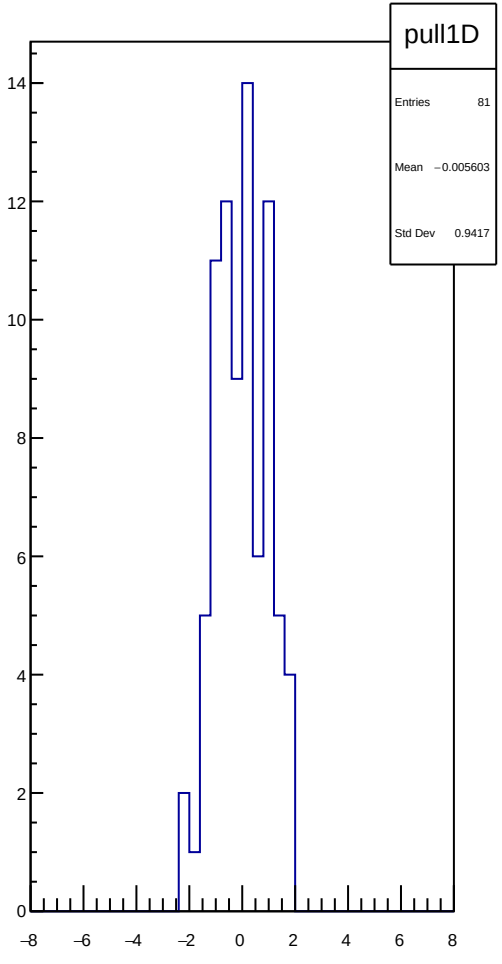

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 4.015e+04 / 80
p0 228.5 ± 0.1853
300
280
260
240
220
200
180
160

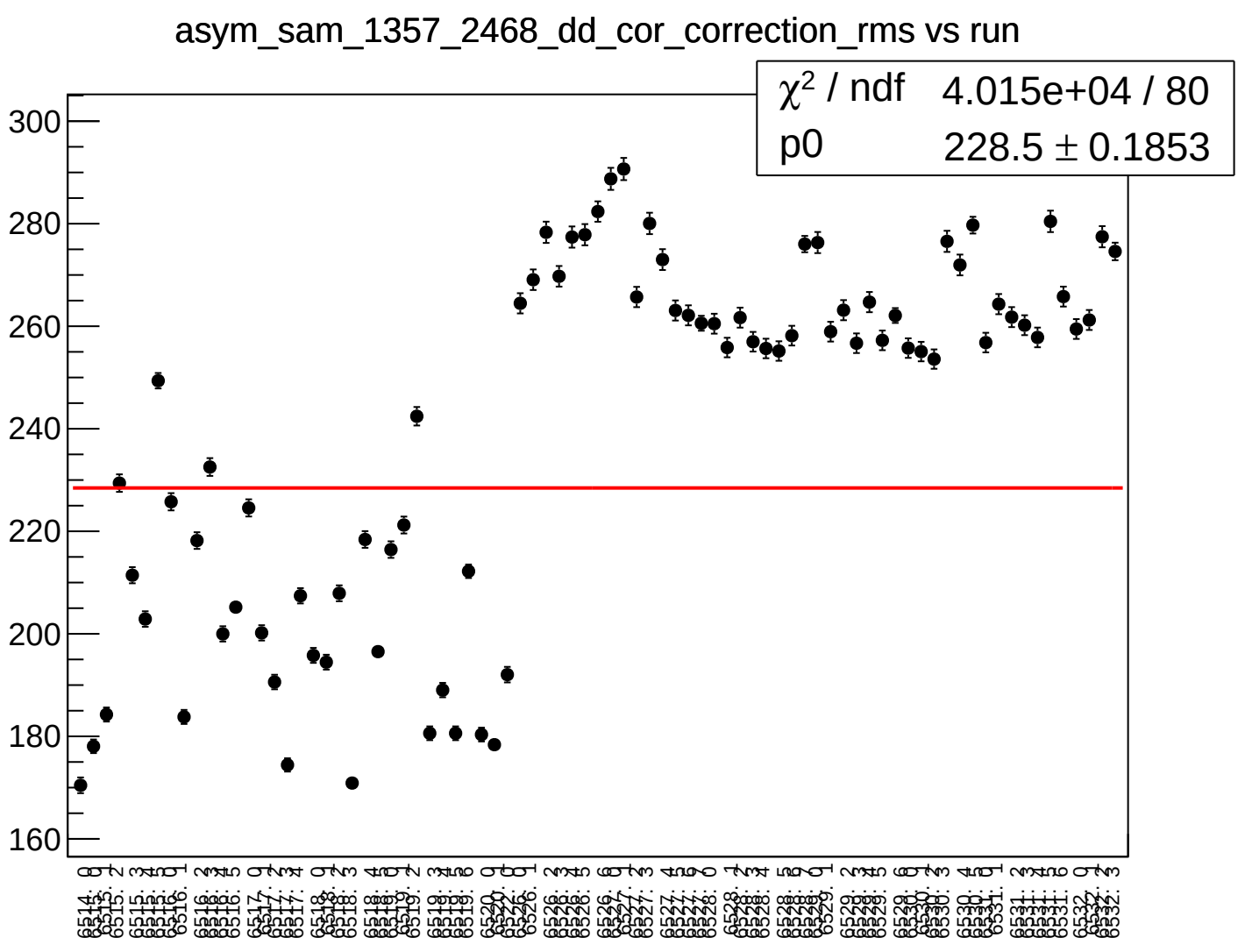

cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 79.36 / 80
p0 −42.13 ± 26.67
pull
Entries 81
Mean 229.9
Std Dev 0

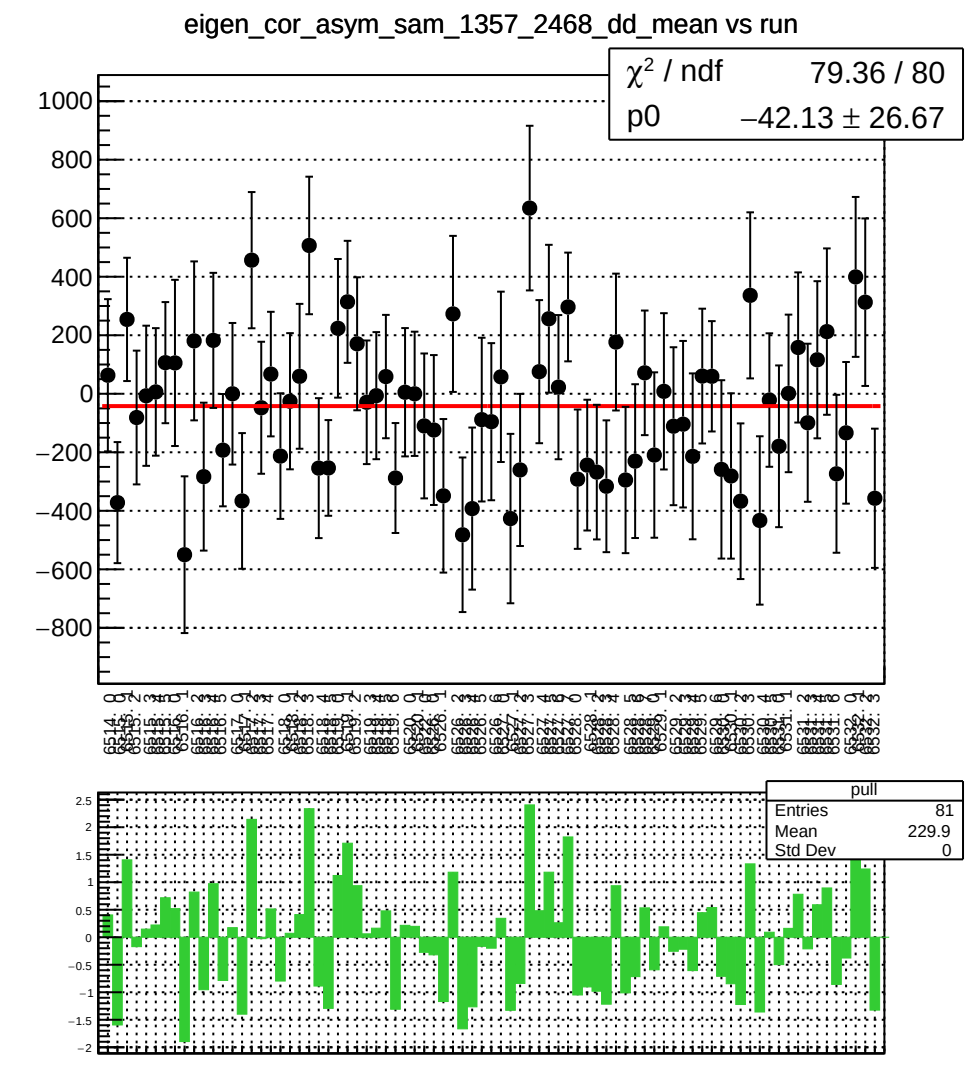

pull1D
Entries 81
Mean −0.006128
Std Dev 0.9898

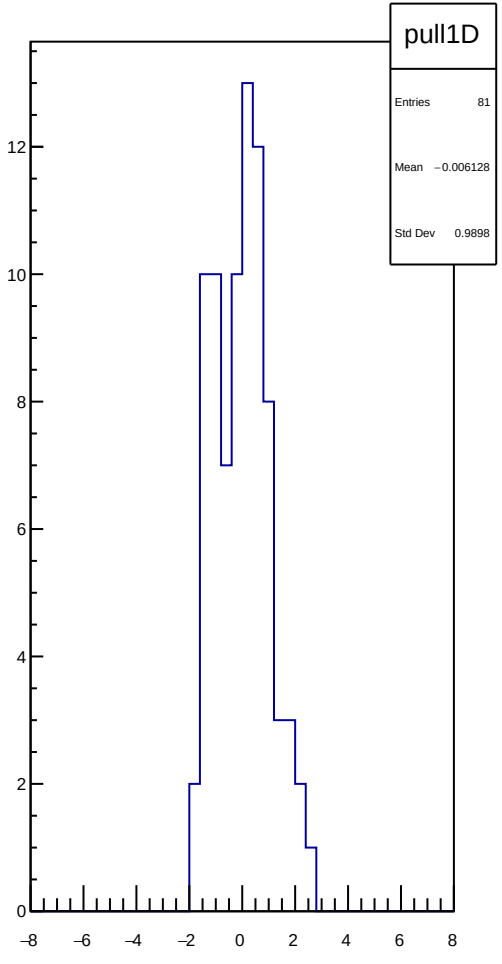

cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.576e+04 / 80
p0 23.45 ± 0.01886
30
28
26
24
22
20

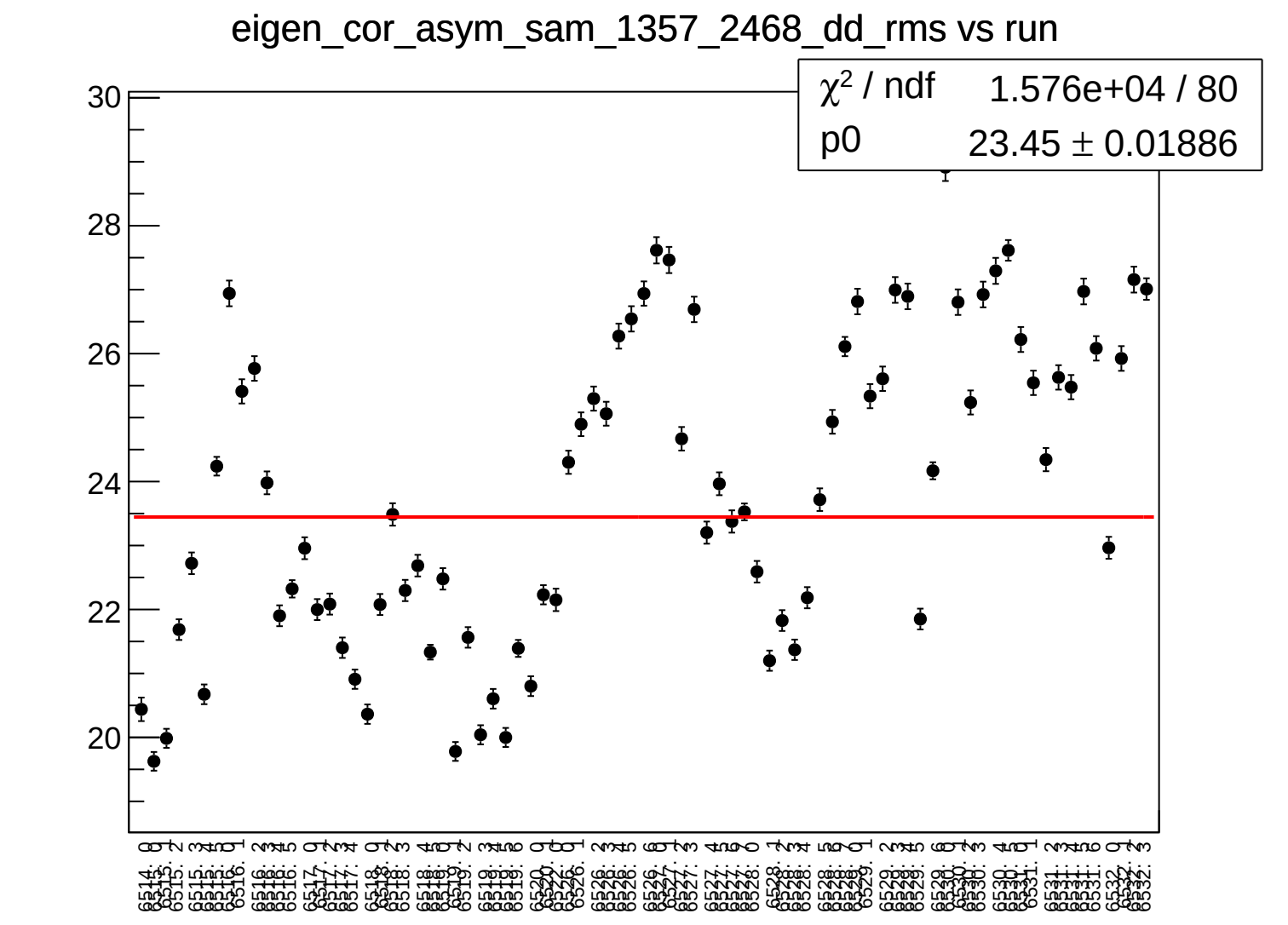

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 71.83 / 80
p0 −36.77 ± 262
pull
Entries 81
Mean 870.8
Std Dev 0

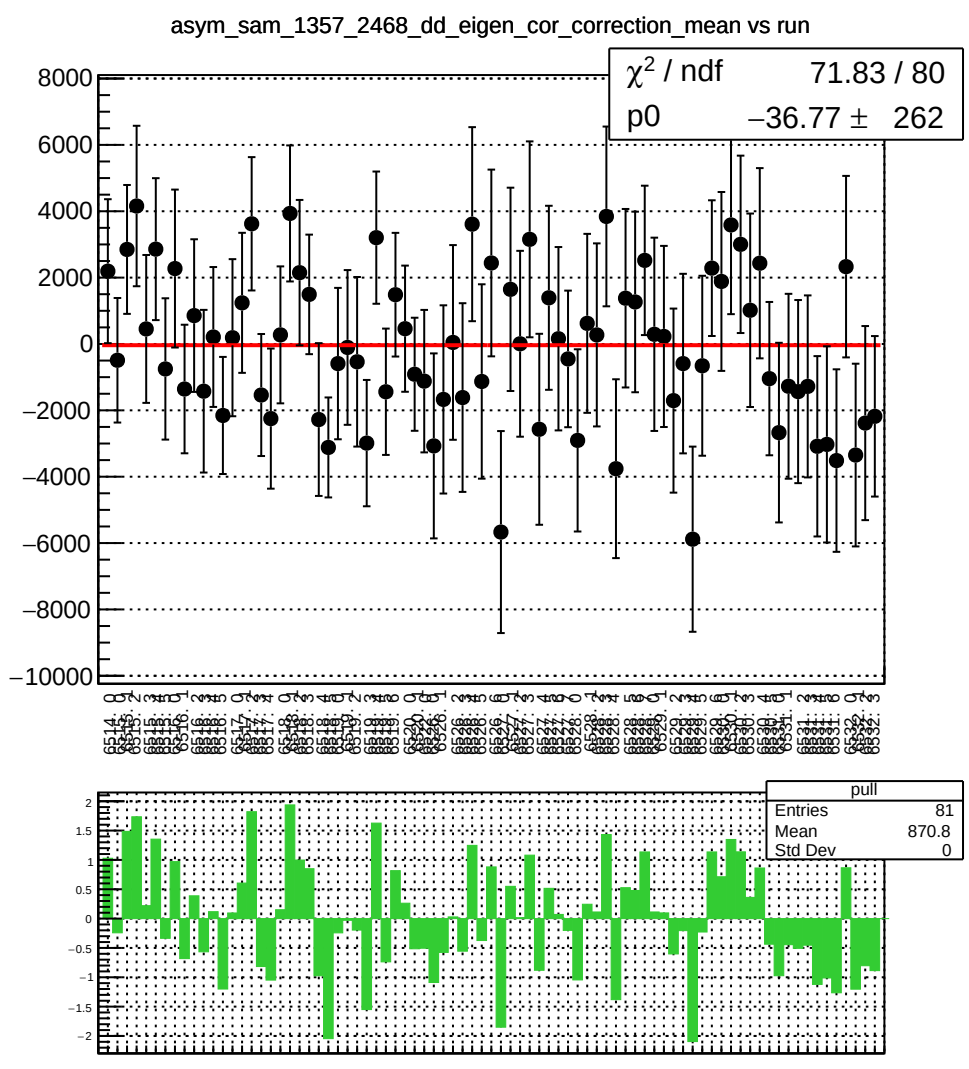

pull1D
Entries 81
Mean −0.005603
Std Dev 0.9417

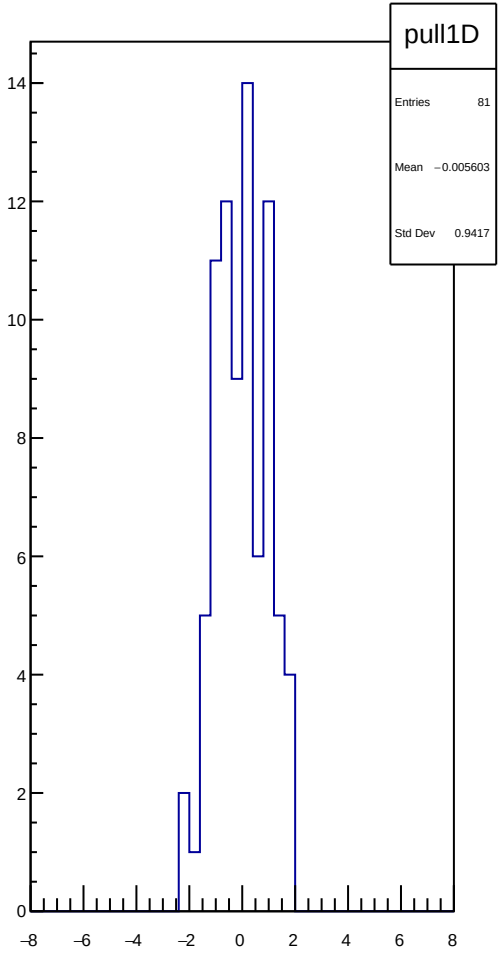

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 4.015e+04 / 80
p0 228.5 ± 0.1853
300
280
260
240
220
200
180
160

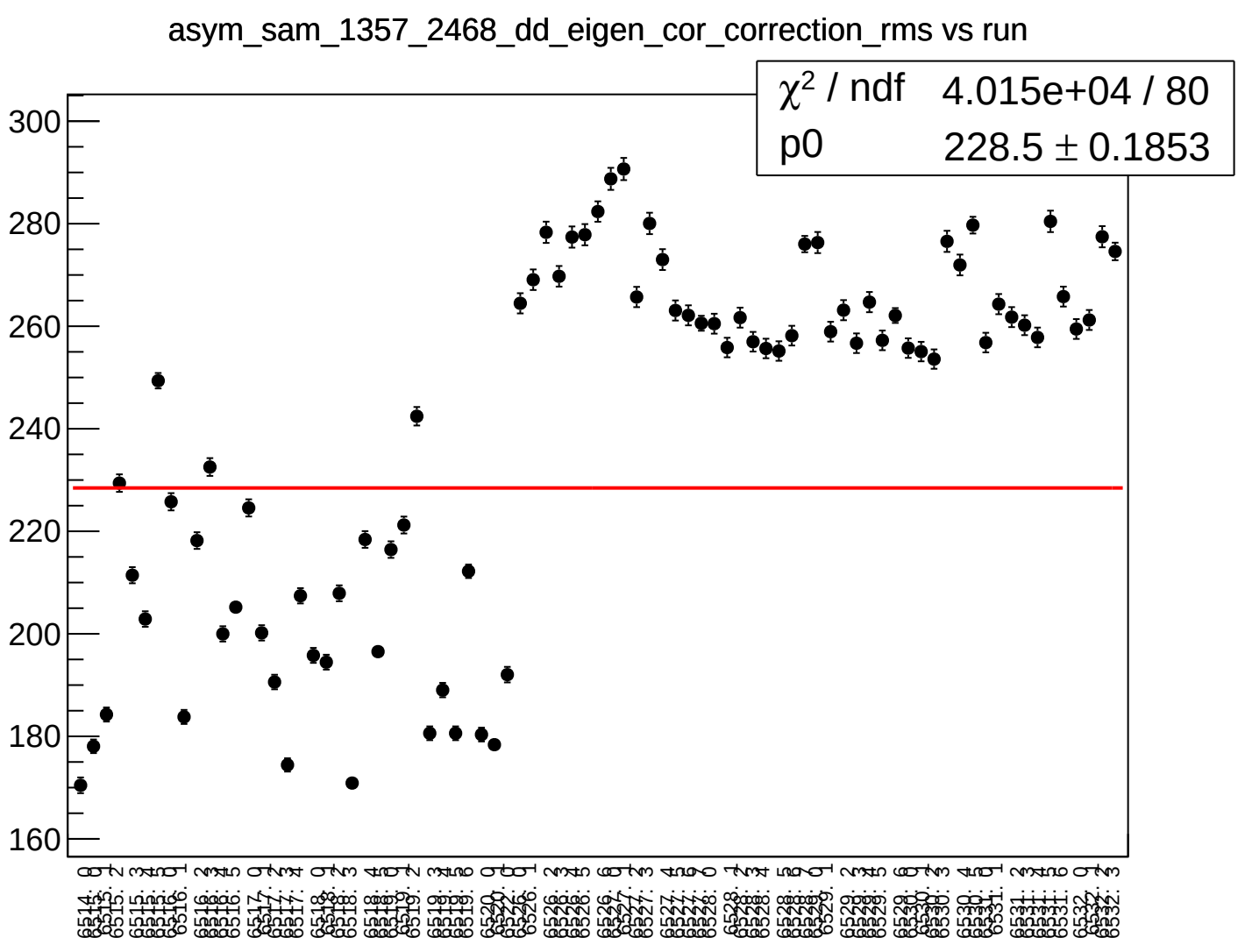

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 79.36 / 80
p0 −42.13 ± 26.67
pull
Entries 81
Mean 229.9
Std Dev 0

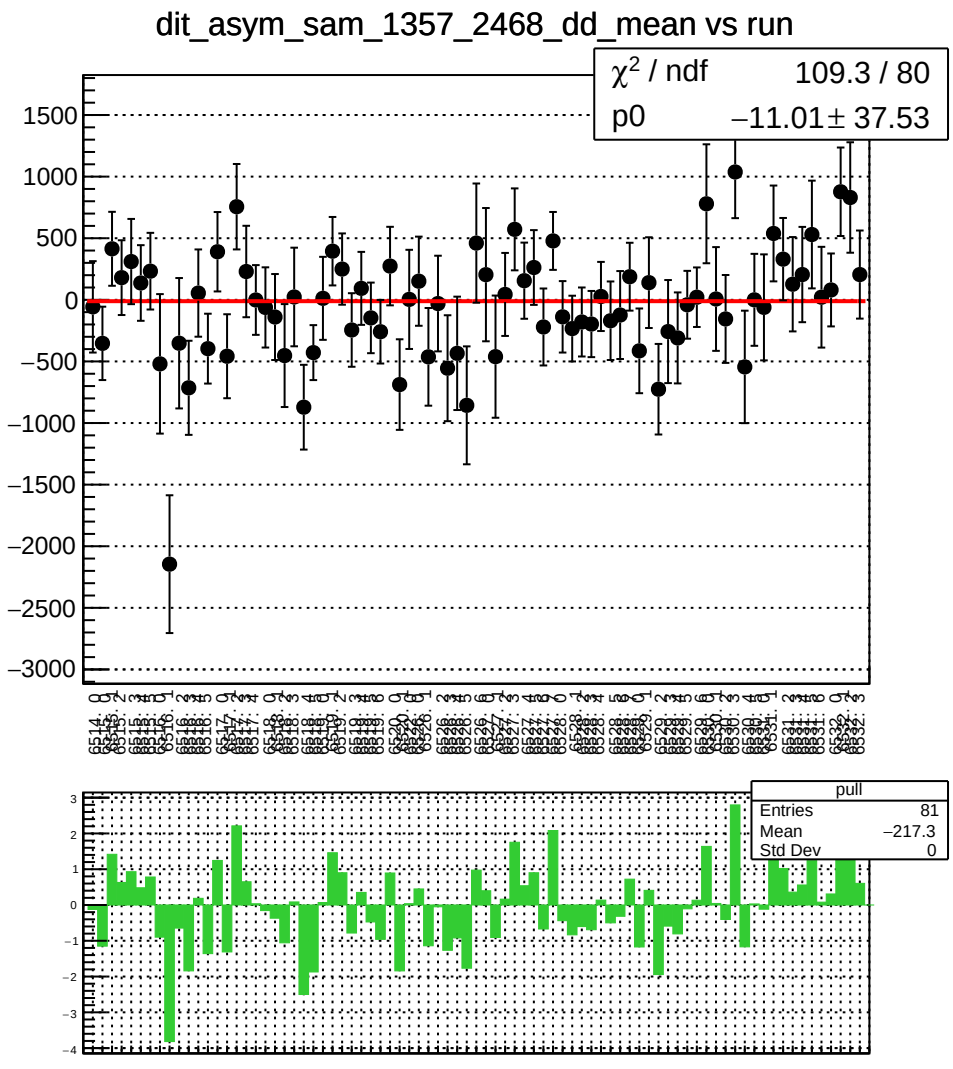

pull1D
Entries 81
Mean −0.006128
Std Dev 0.9898

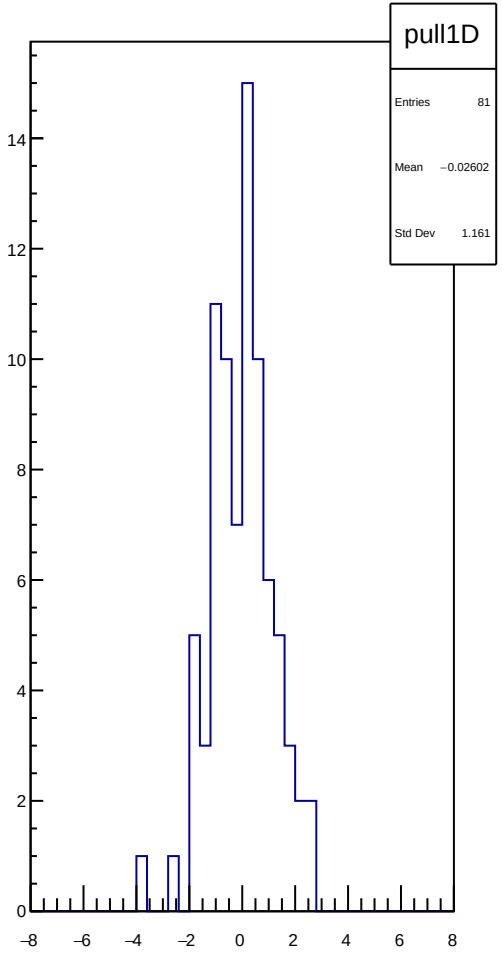

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.576e+04 / 80
p0 23.45 ± 0.01886
30
28
26
24
22
20

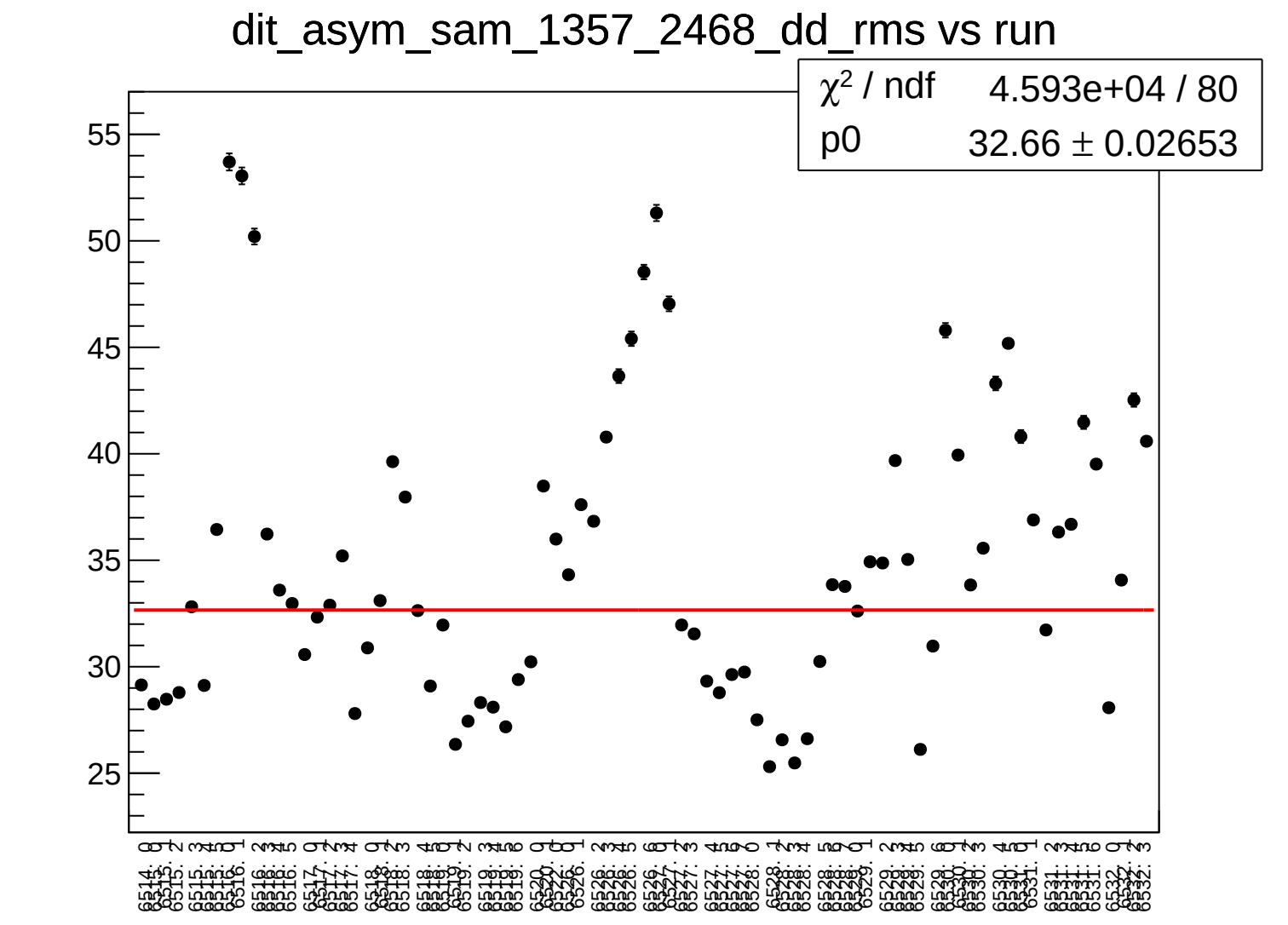

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 71.83 / 80
p0 −36.77 ± 262
pull
Entries 81
Mean 870.8
Std Dev 0

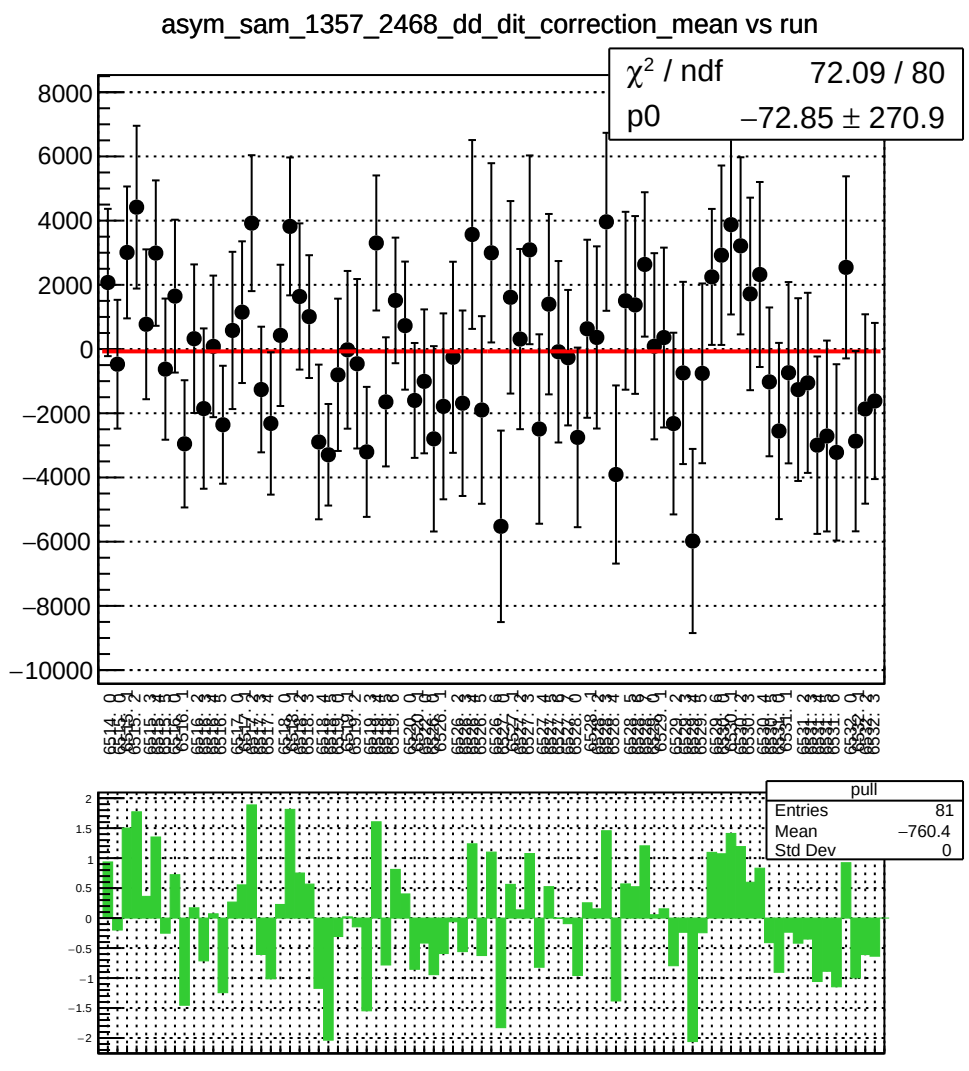

pull1D
Entries 81
Mean −0.005603
Std Dev 0.9417

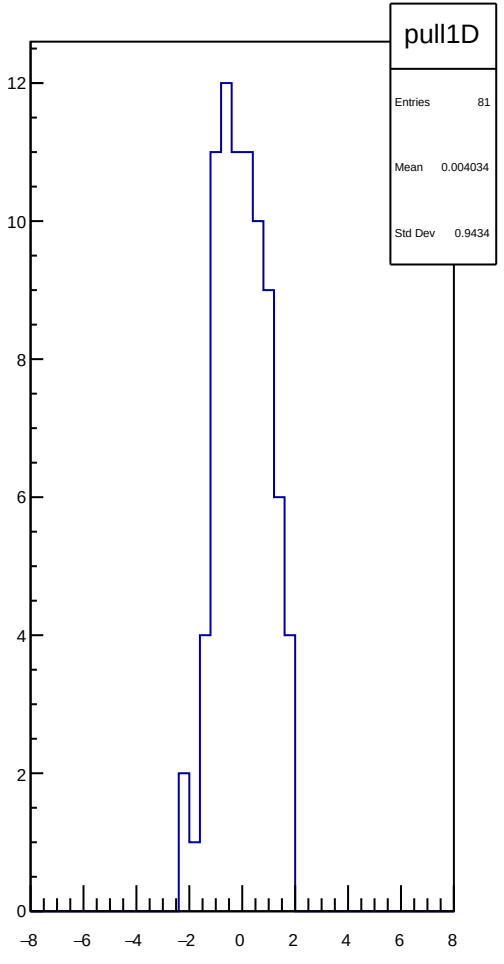

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 4.015e+04 / 80
p0 228.5 ± 0.1853
300
280
260
240
220
200
180
160

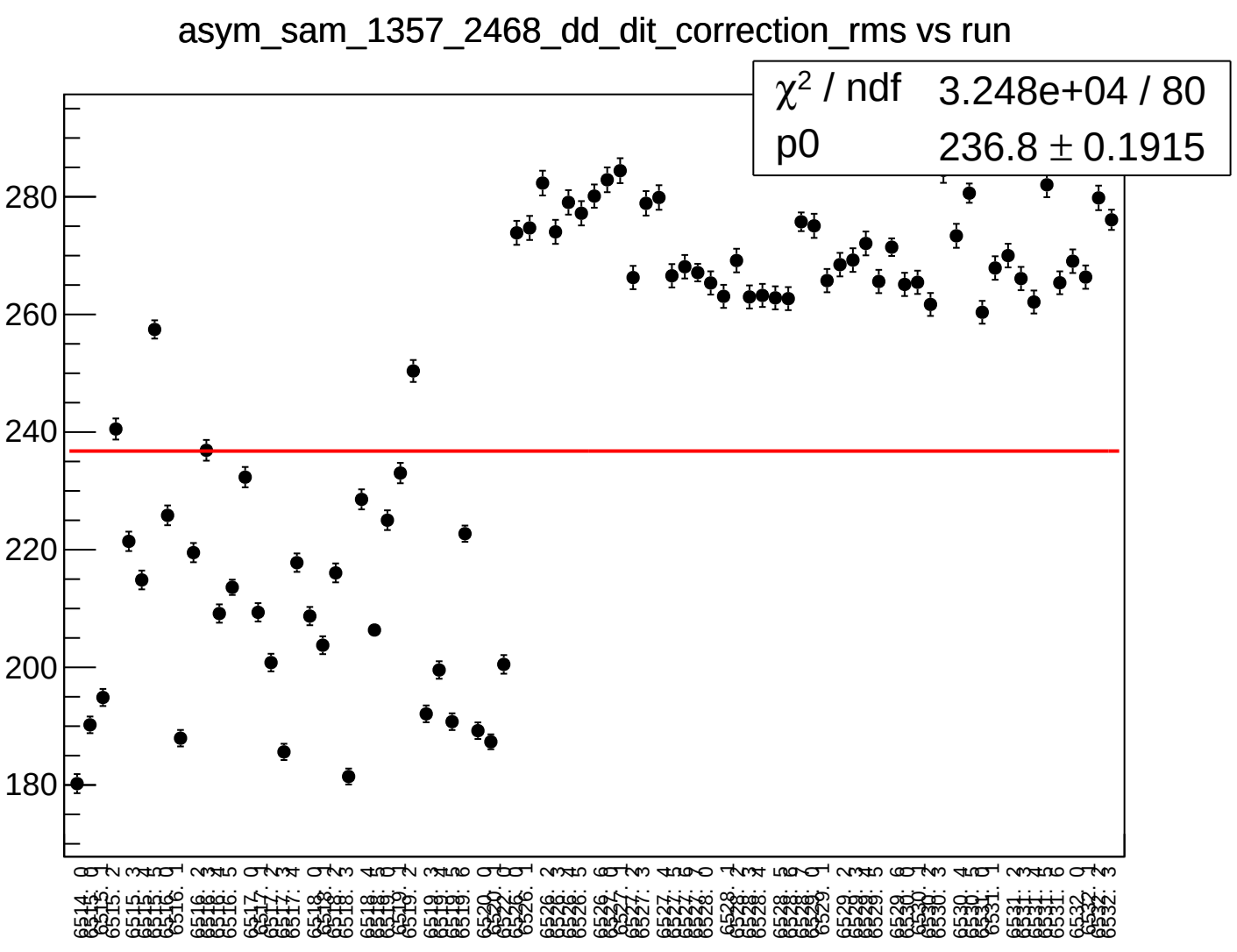

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 109.3 / 80
p0 −11.01 ± 37.53
pull
Entries 81
Mean −217.3
Std Dev 0

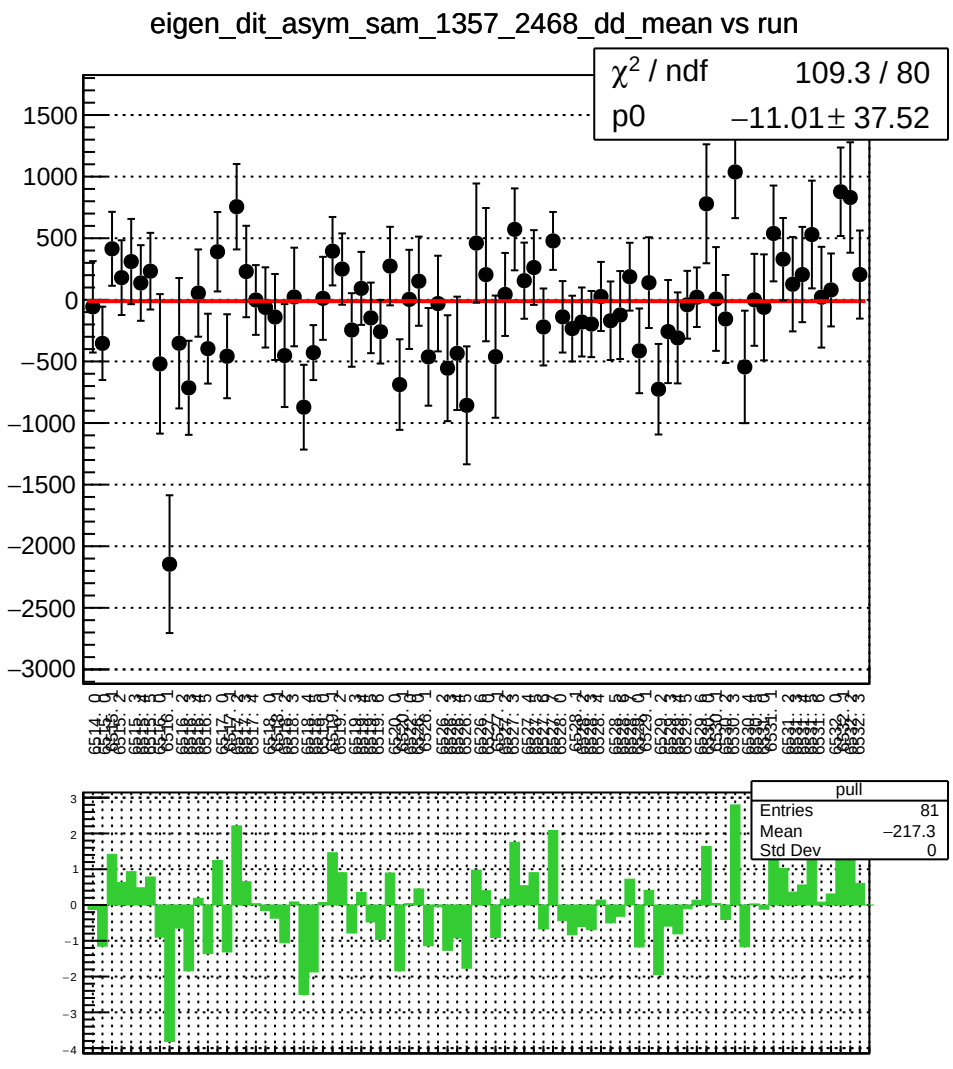

pull1D
Entries 81
Mean −0.02602
Std Dev 1.161

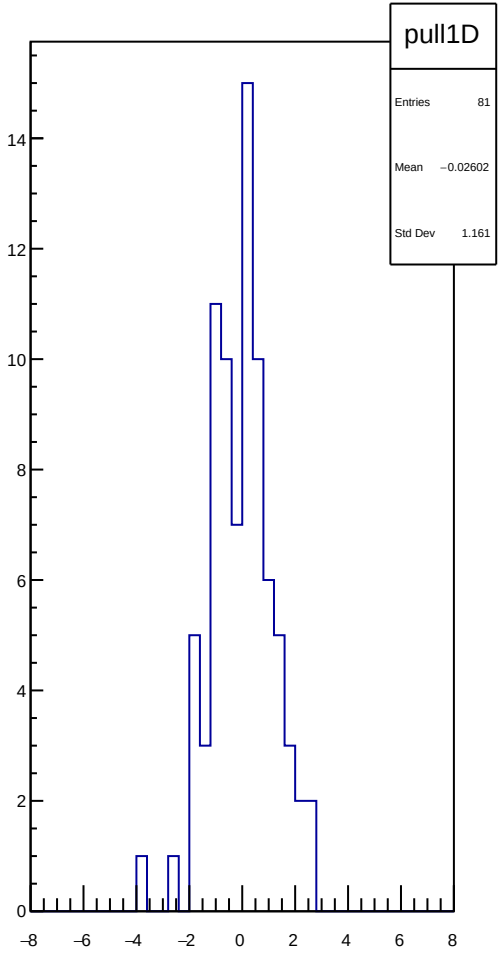

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 4.593e+04 / 80
p0 32.66 ± 0.02653
55
50
45
40
35
30
25

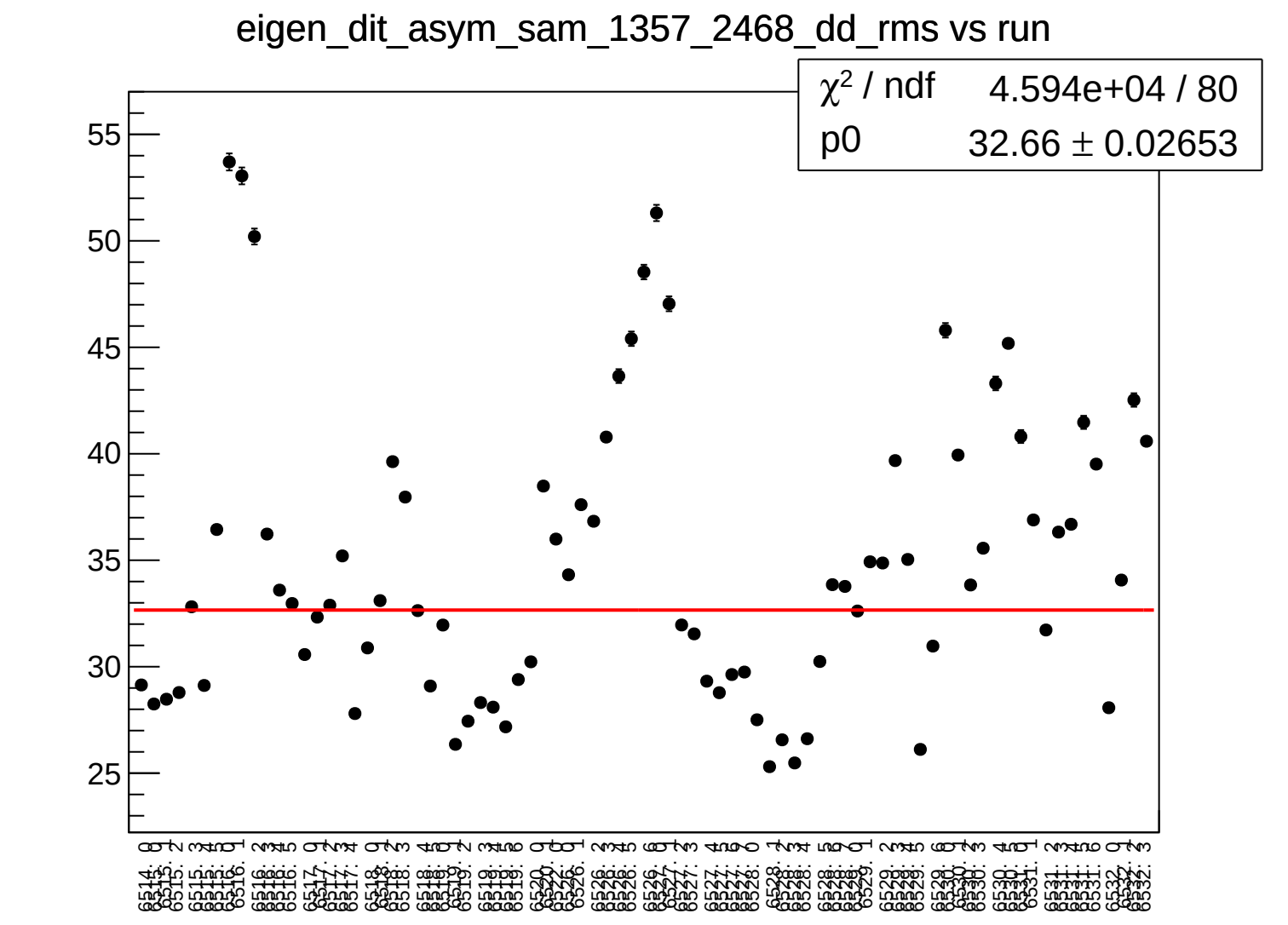

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 72.09 / 80
p0 −72.85 ± 270.9
pull
Entries 81
Mean −760.4
Std Dev 0

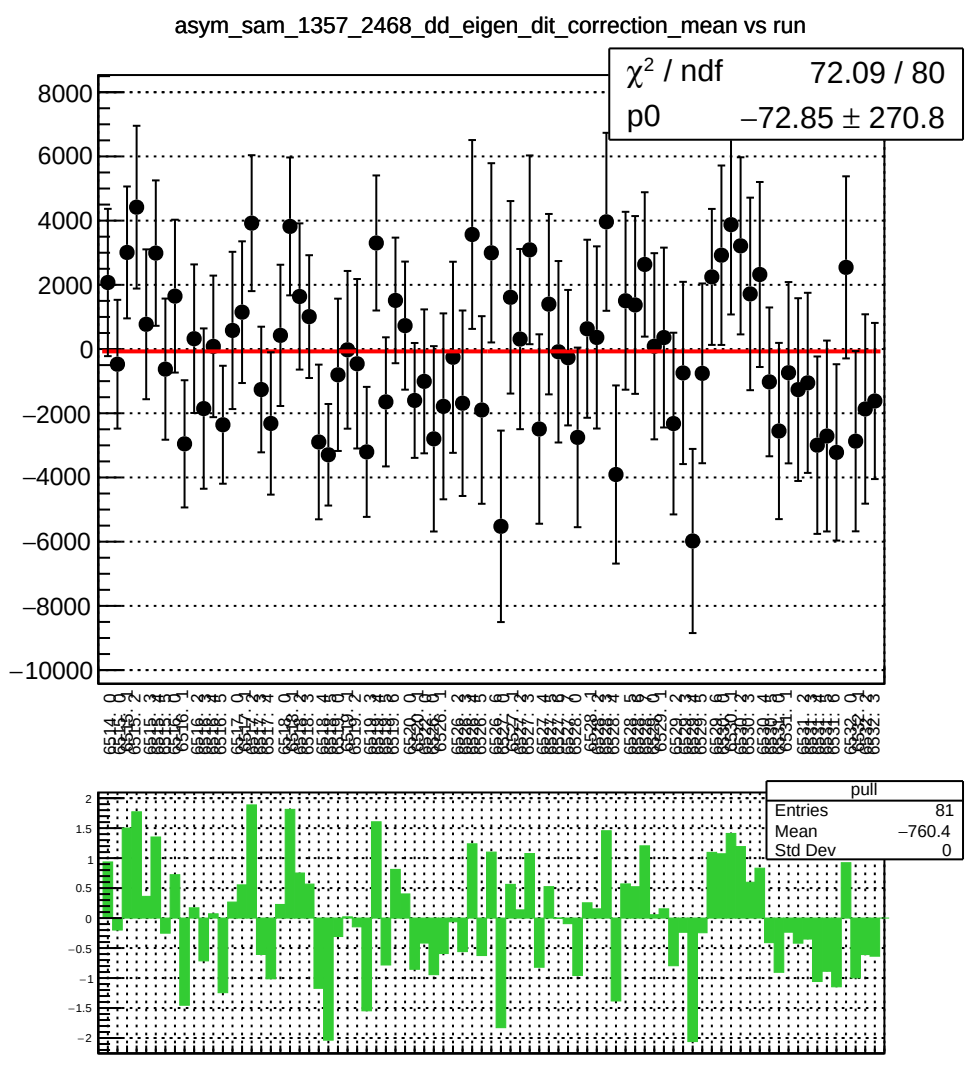

pull1D
Entries 81
Mean 0.004034
Std Dev 0.9434

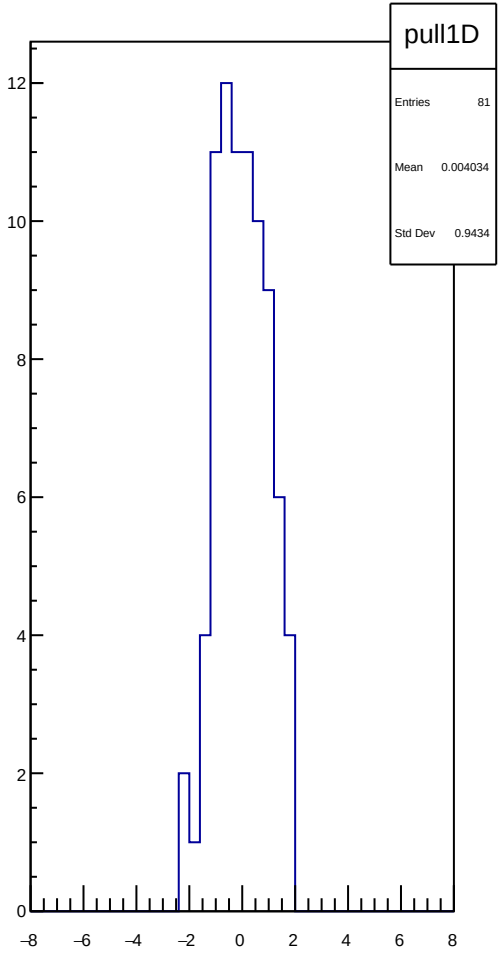

asym_sam_1357_2468_dd_dit_correction_rms vs run
χ² / ndf 3.248e+04 / 80
p0 236.8 ± 0.1915
280
260
240
220
200
180

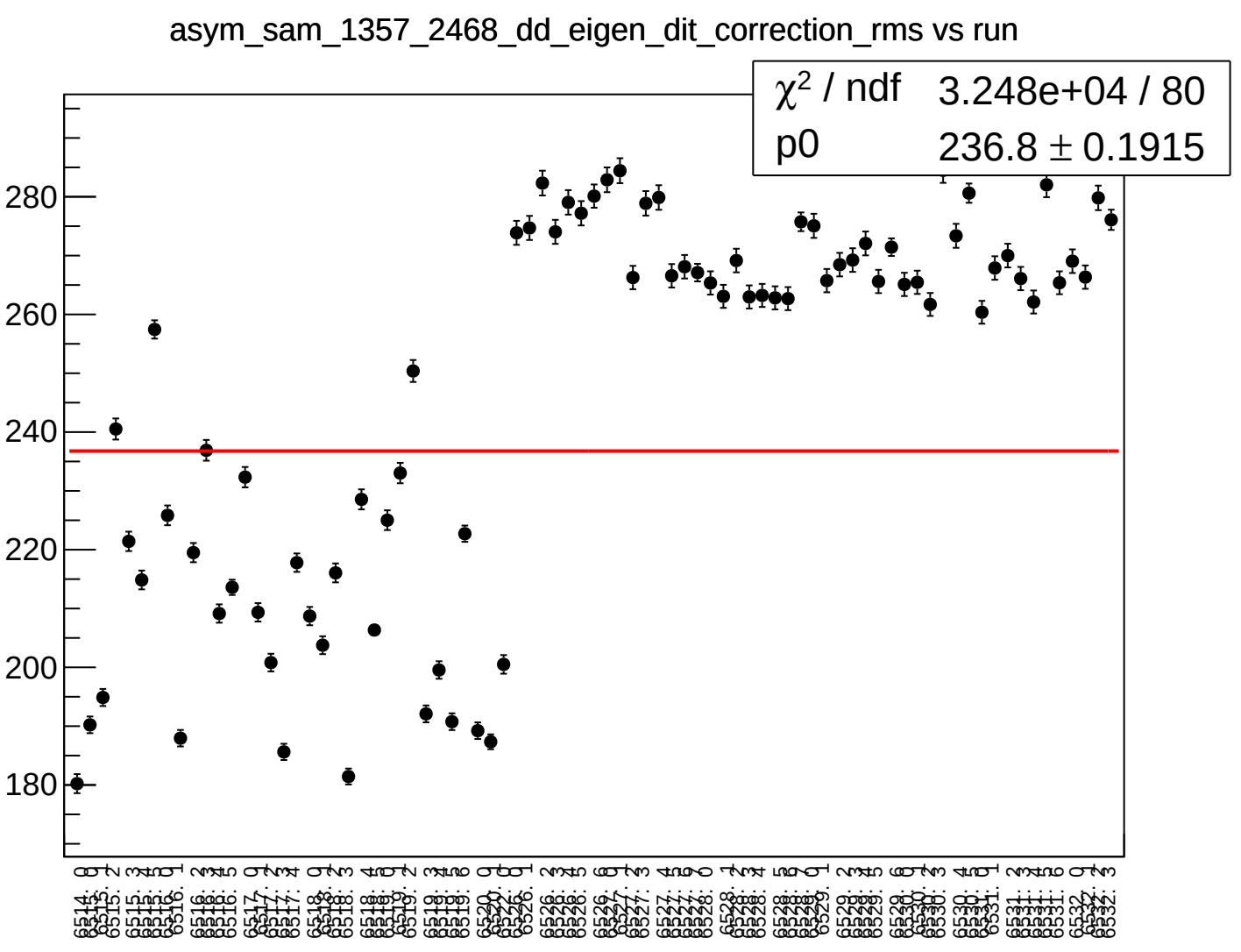

eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 109.3 / 80
p0 −11.01± 37.52
pull
Entries 81
Mean −217.3
Std Dev 0

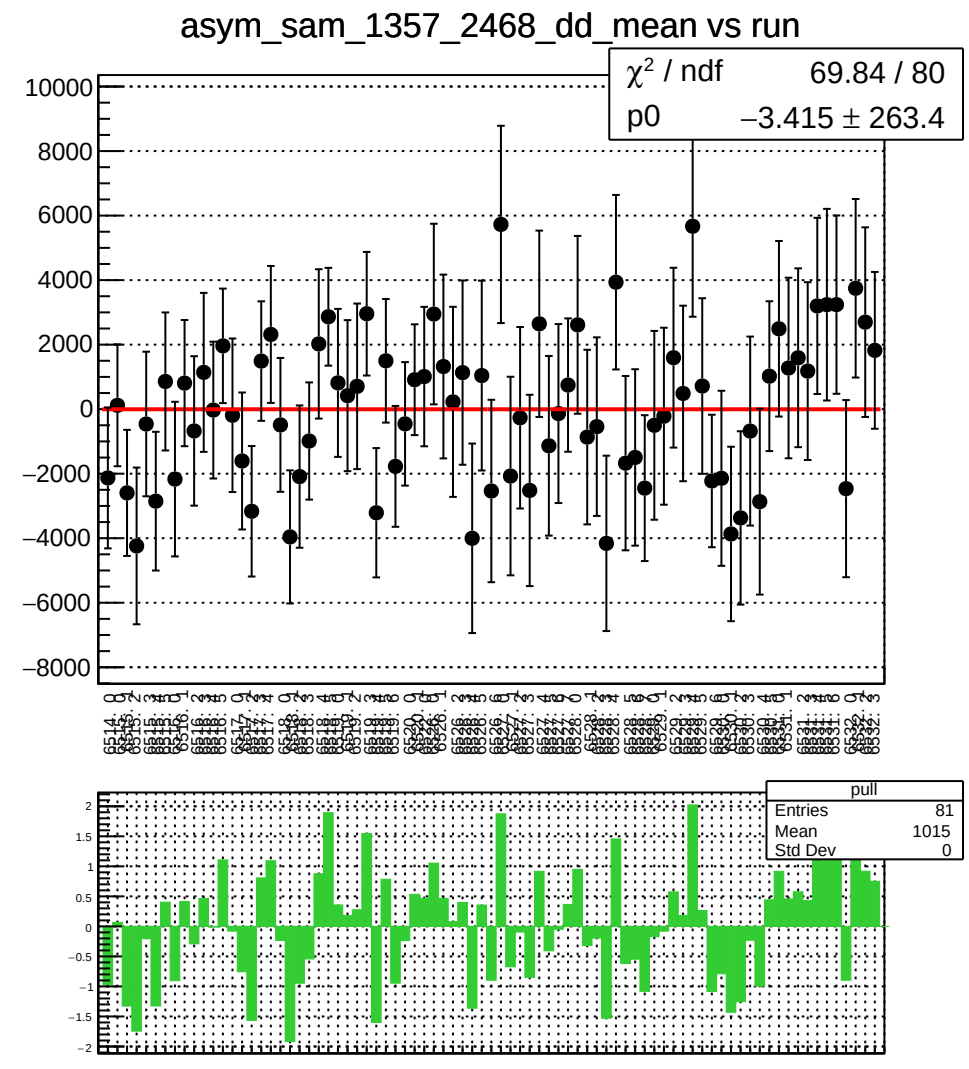

pull1D
Entries 81
Mean −0.02602
Std Dev 1.161

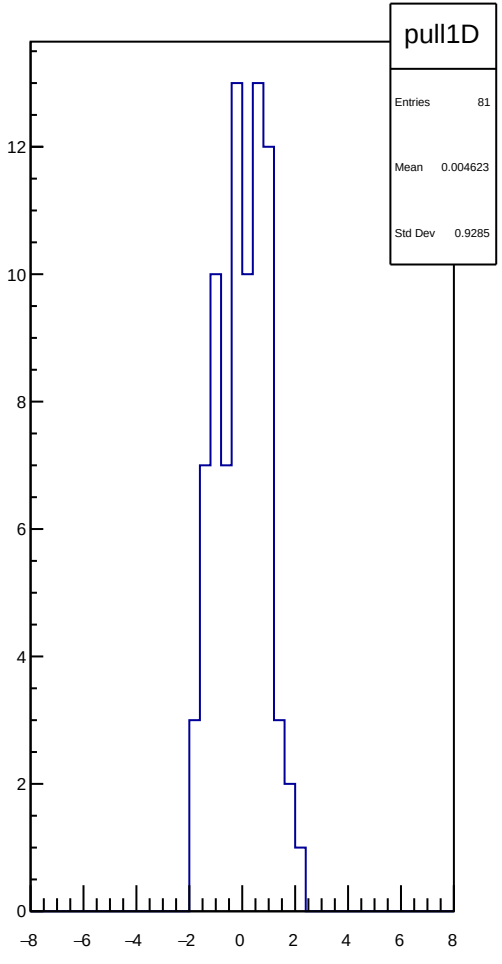

eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 4.594e+04 / 80
p0 32.66 ± 0.02653
55
50
45
40
35
30
25

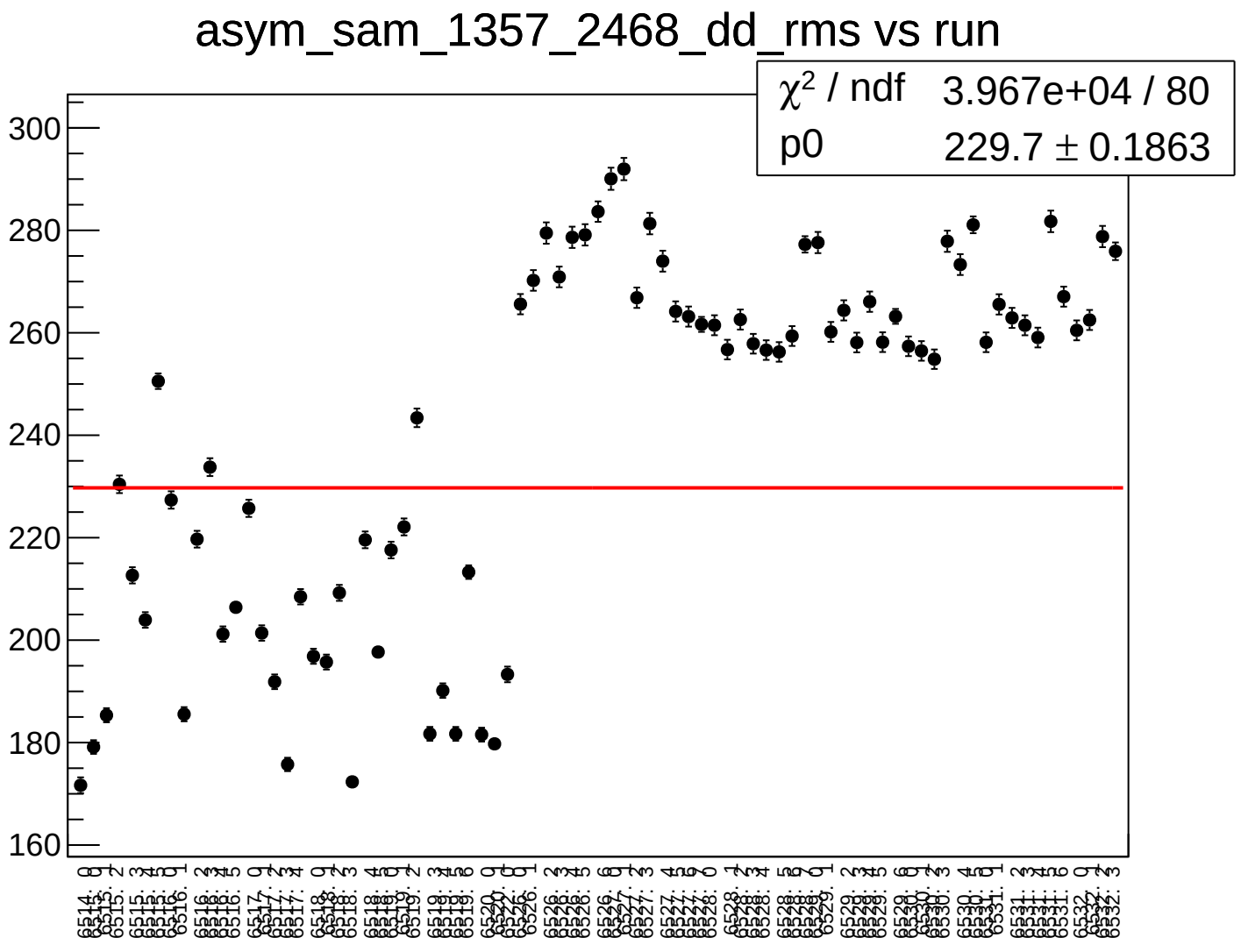

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 72.09 / 80
p0 −72.85 ± 270.8
pull
Entries 81
Mean −760.4
Std Dev 0

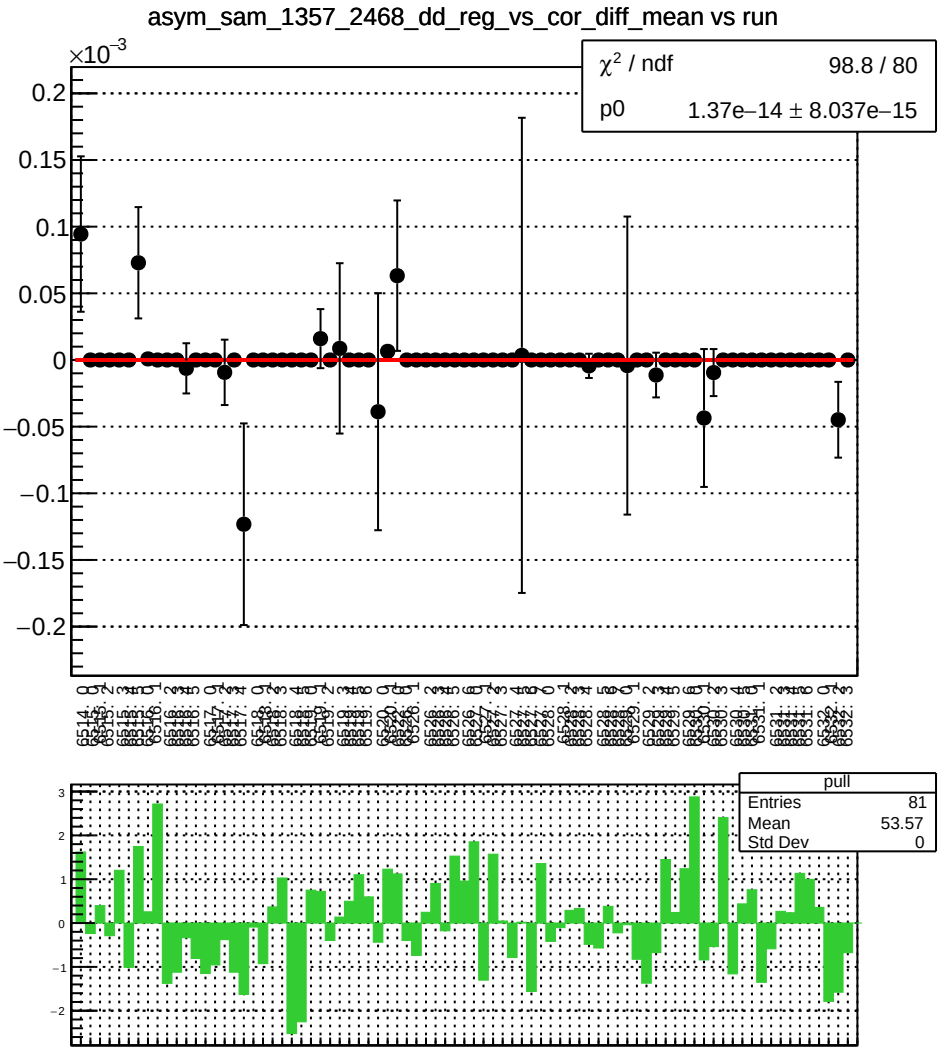

pull1D
Entries 81
Mean 0.004034
Std Dev 0.9434

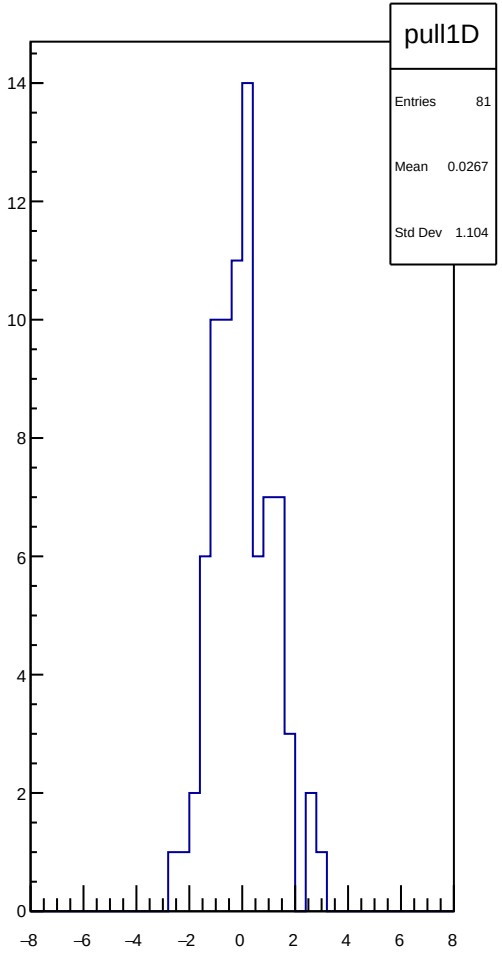

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.248e+04 / 80
p0 236.8 ± 0.1915
280
260
240
220
200
180

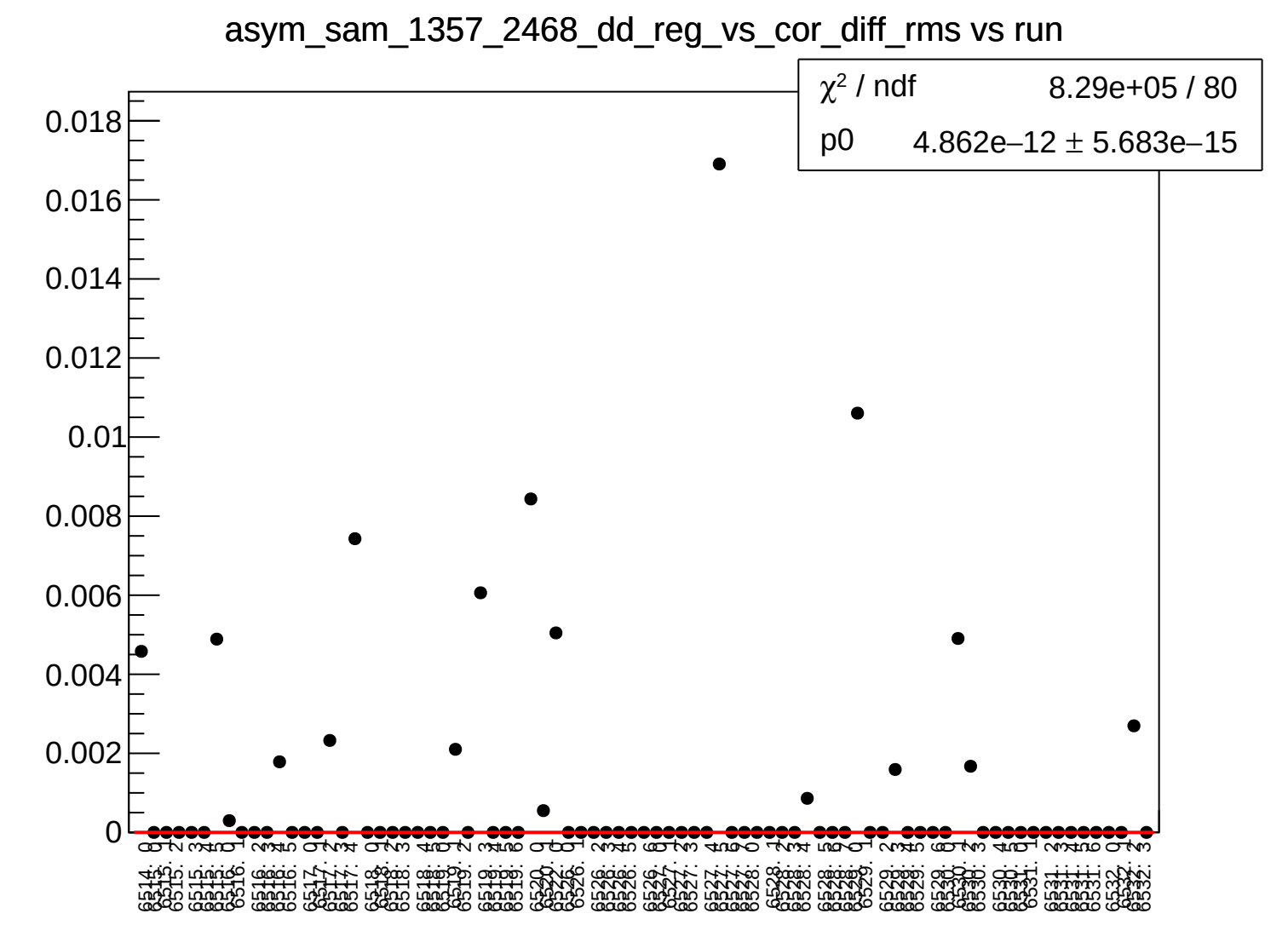

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 69.84 / 80
p0 −3.415 ± 263.4
pull
Entries 81
Mean 1015
Std Dev 0

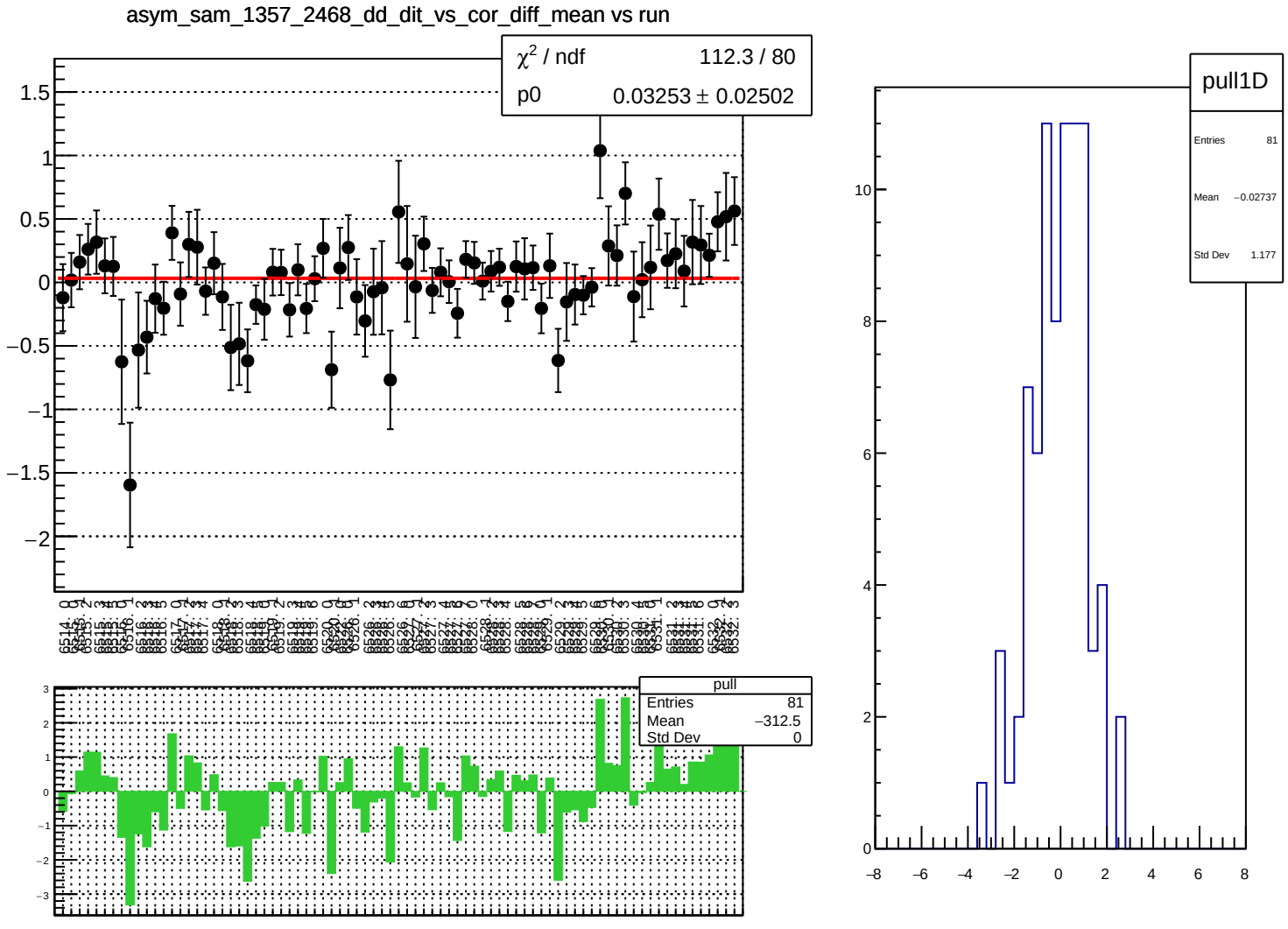

pull1D
Entries 81
Mean 0.004623
Std Dev 0.9285

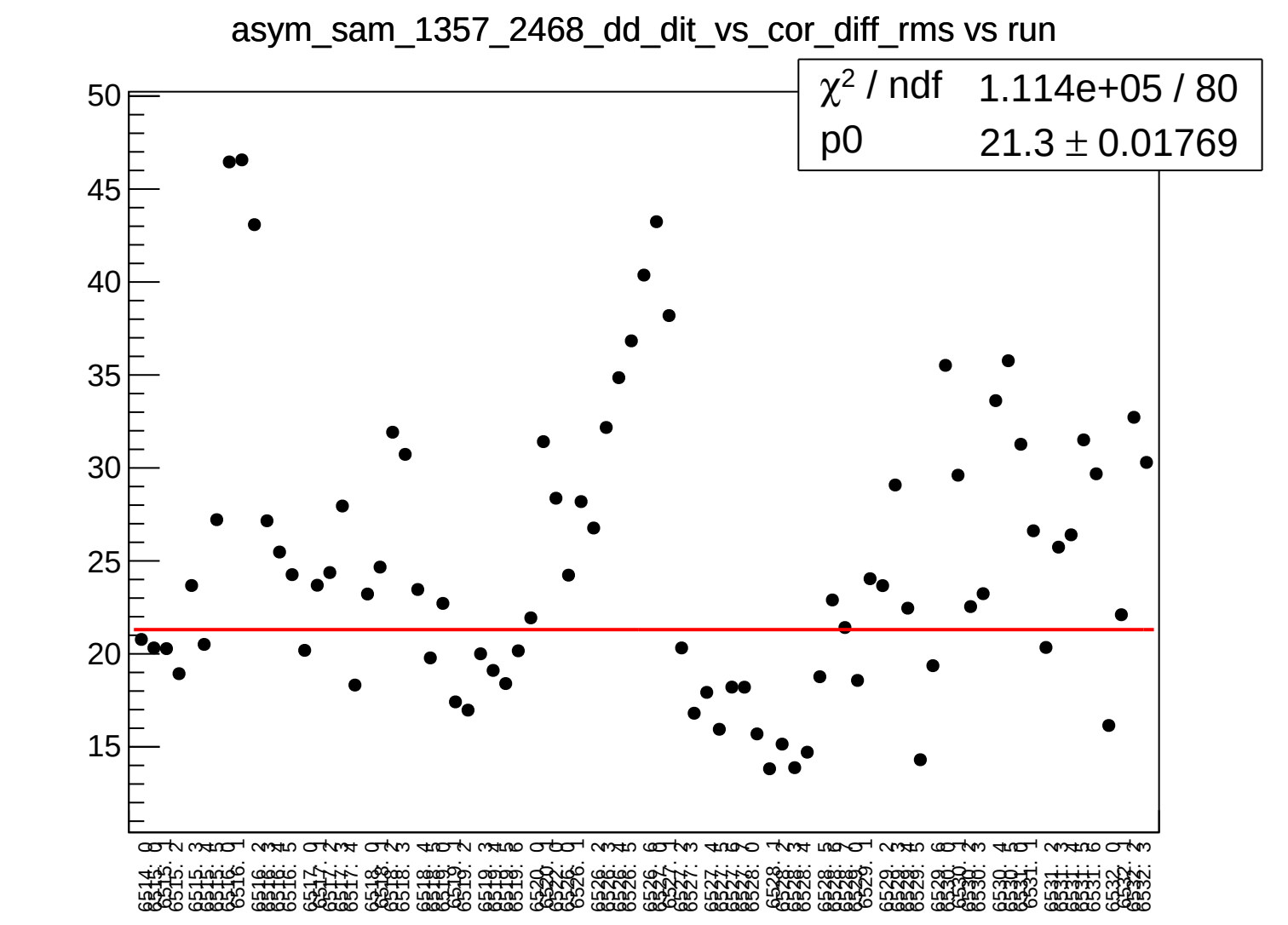

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3.967e+04 / 80
p0 229.7 ± 0.1863
300
280
260
240
220
200
180
160

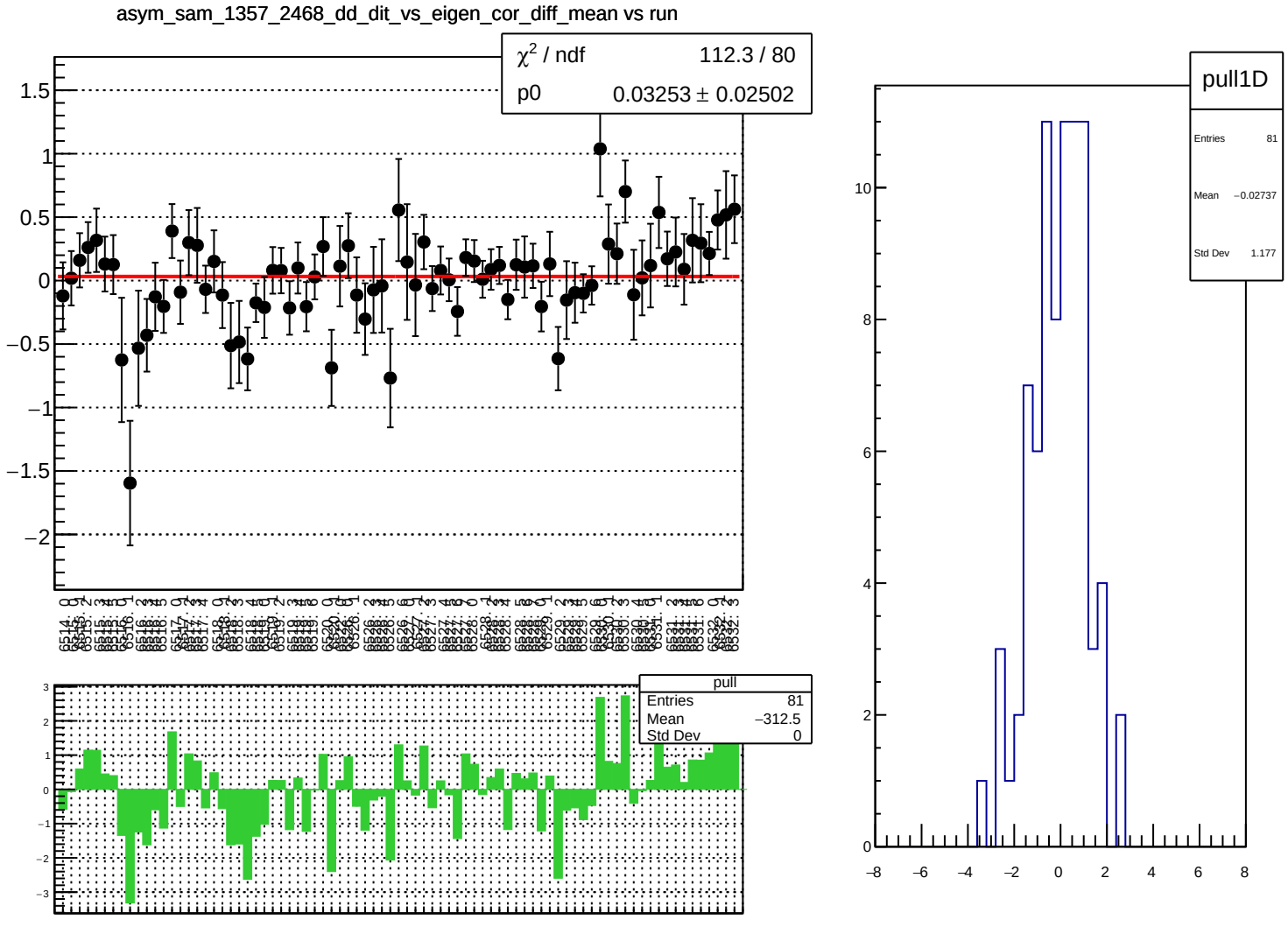

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 98.8 / 80
p0 1.37e−14 ± 8.037e−15
pull
Entries 81
Mean 53.57
Std Dev 0

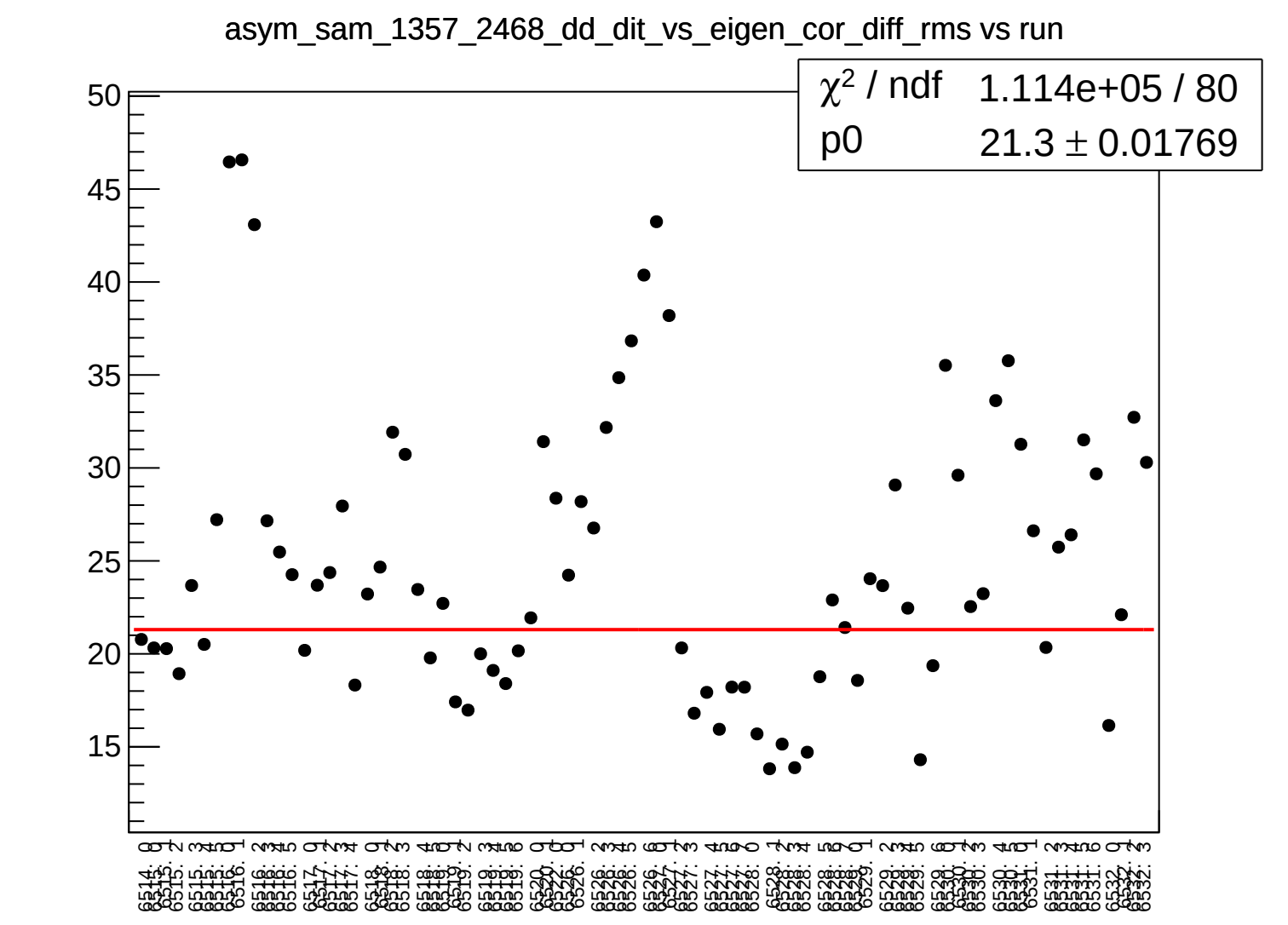

pull1D
Entries 81
Mean 0.0267
Std Dev 1.104

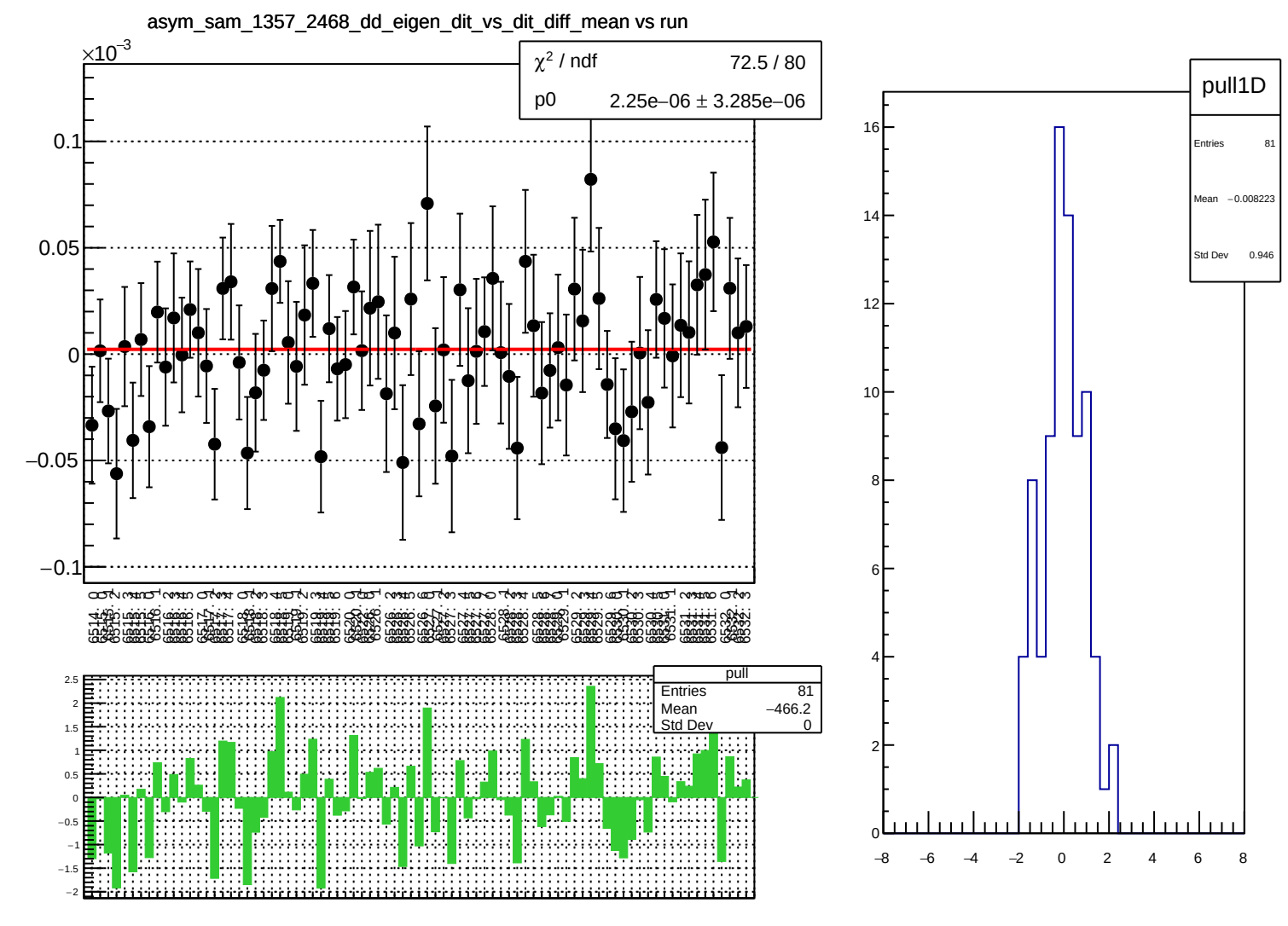

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.29e+05 / 80
p0 4.862e−12 ± 5.683e−15
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0

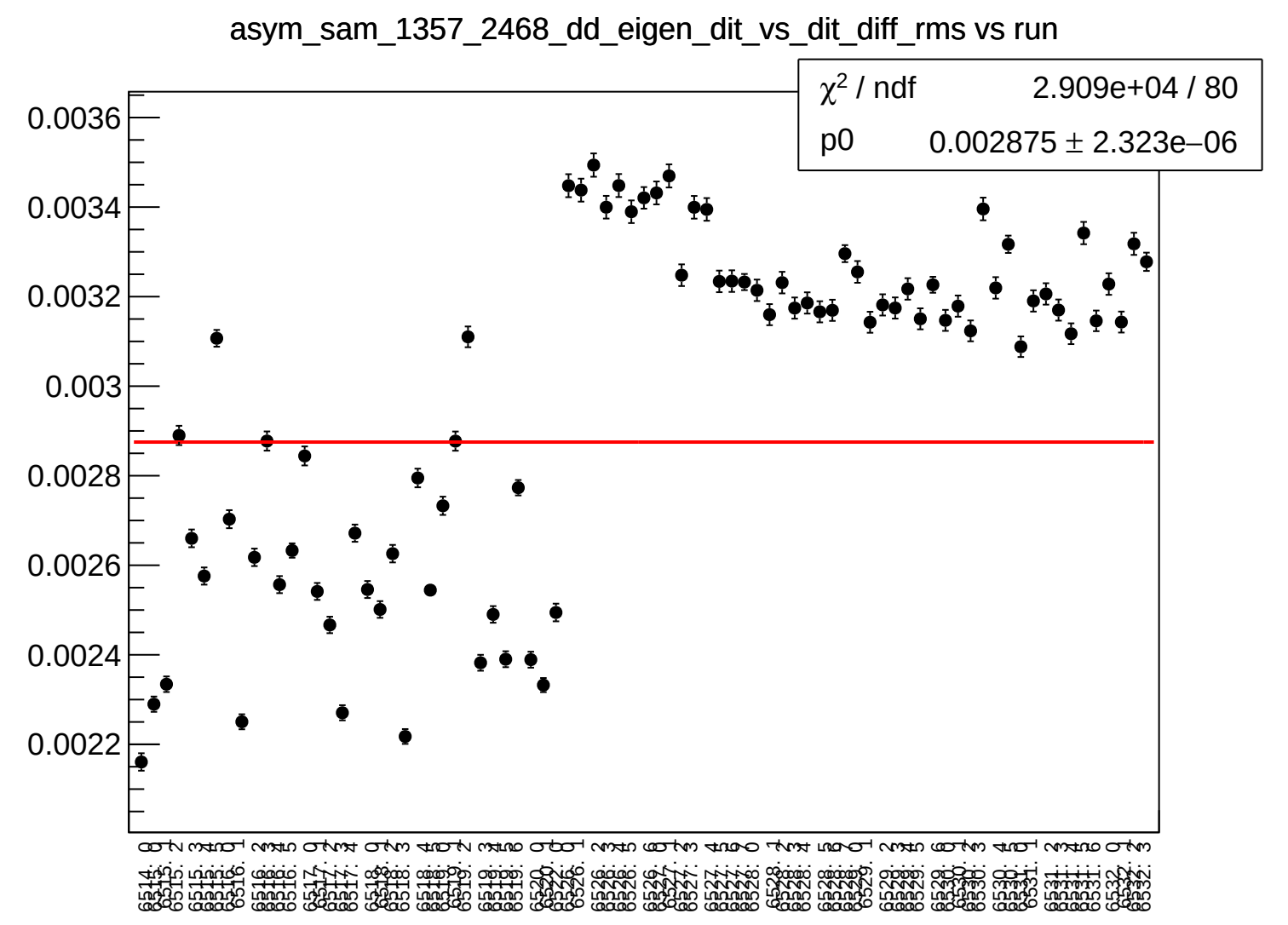

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 112.3 / 80
p0 0.03253 ± 0.02502
pull
Entries 81
Mean −312.5
Std Dev 0
pull1D
Entries 81
Mean −0.02737
Std Dev 1.177

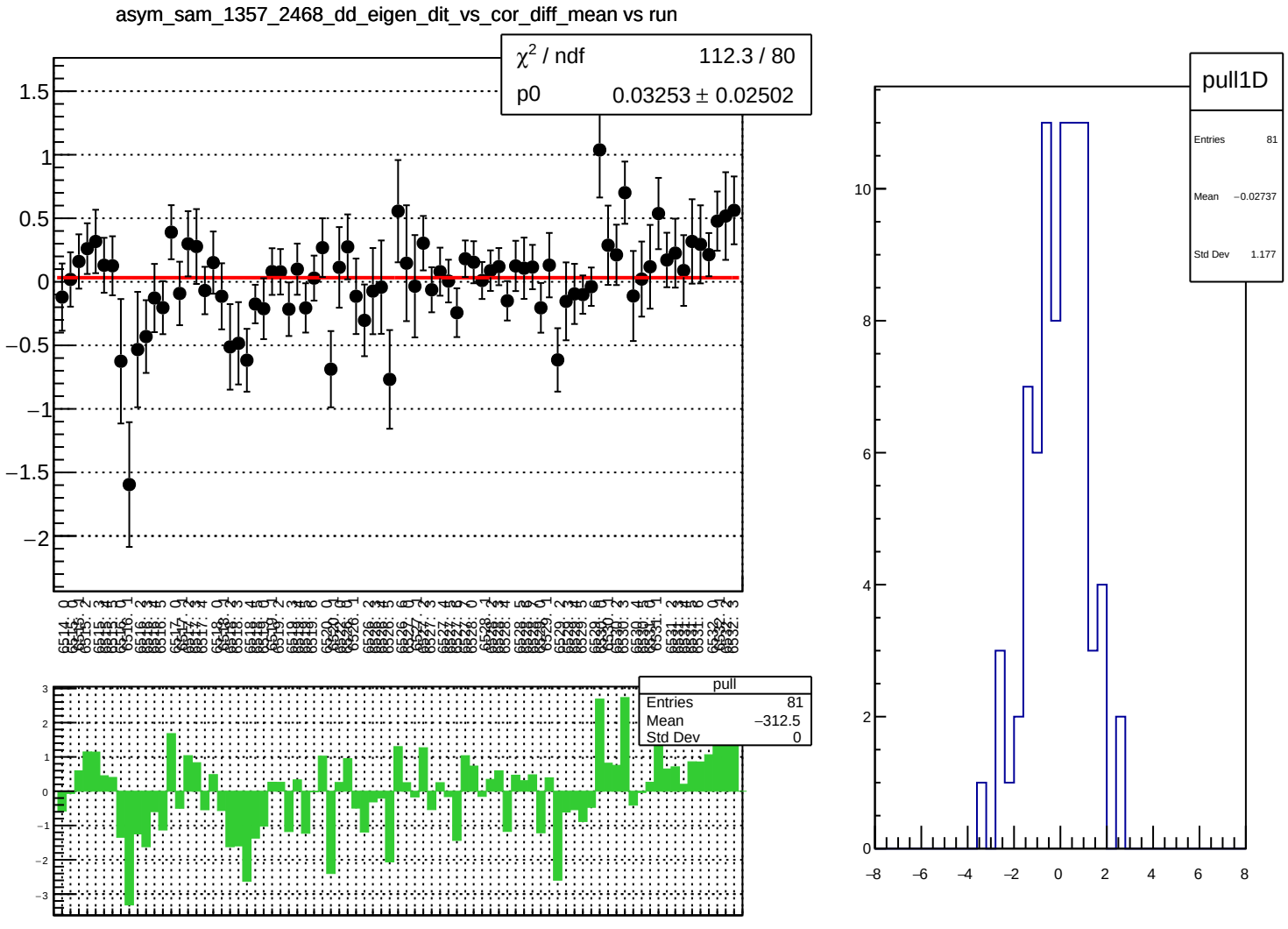

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.114e+05 / 80
p0 21.3 ± 0.01769
50
45
40
35
30
25
20
15

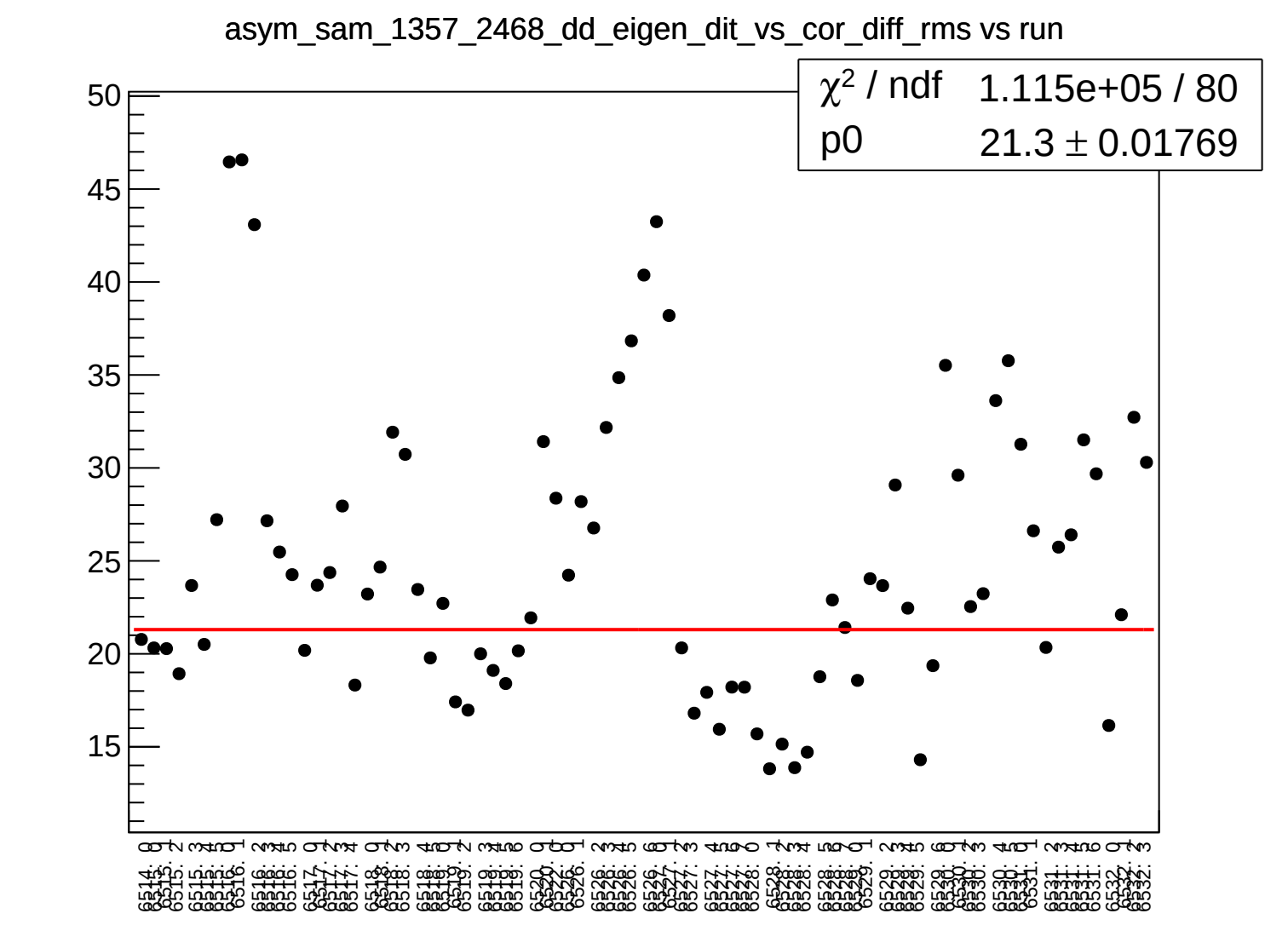

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.3 / 80
p0 0.03253 ± 0.02502
pull
Entries 81
Mean −312.5
Std Dev 0
pull1D
Entries 81
Mean −0.02737
Std Dev 1.177

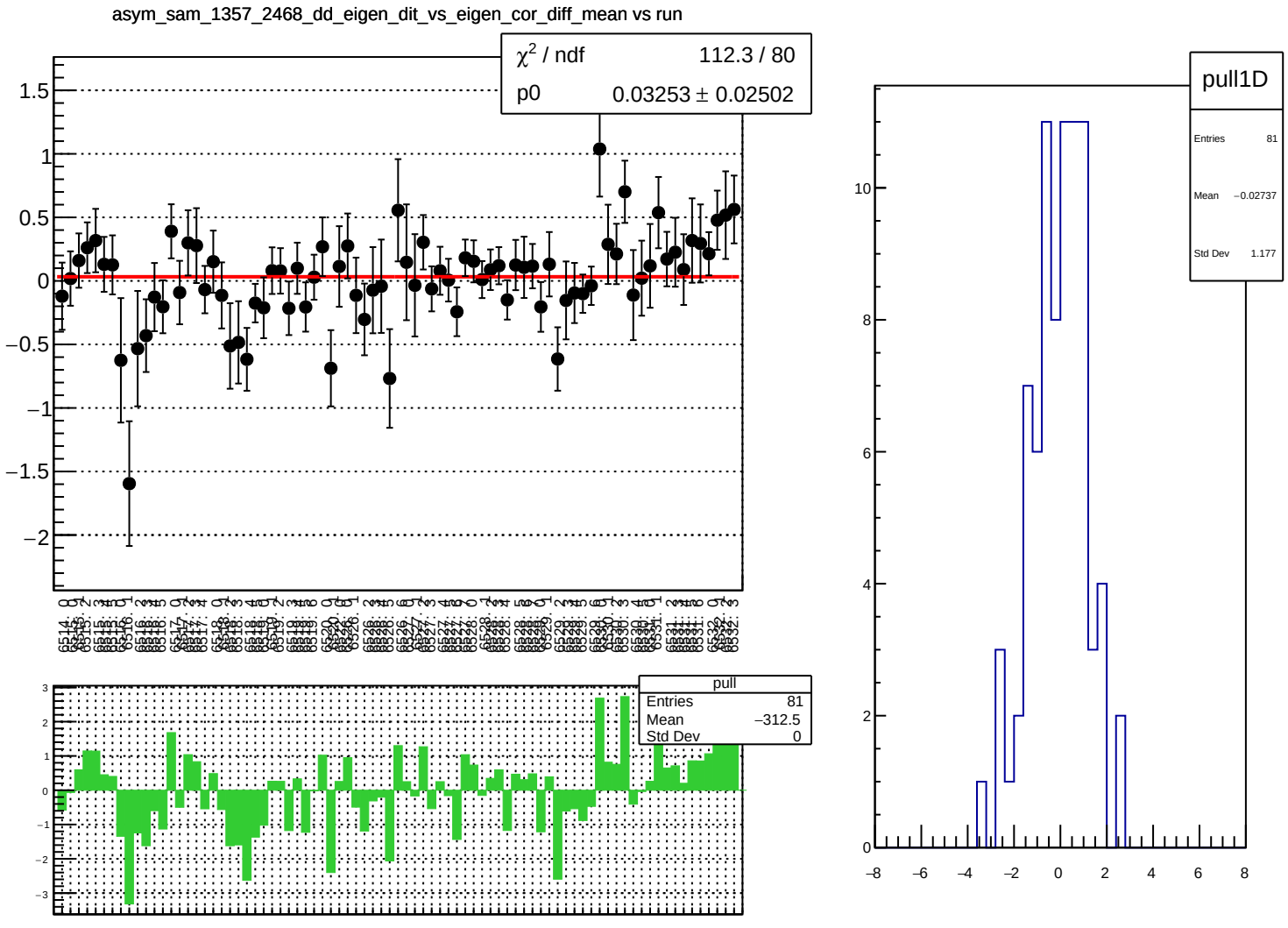

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.114e+05 / 80
p0 21.3 ± 0.01769
50
45
40
35
30
25
20
15

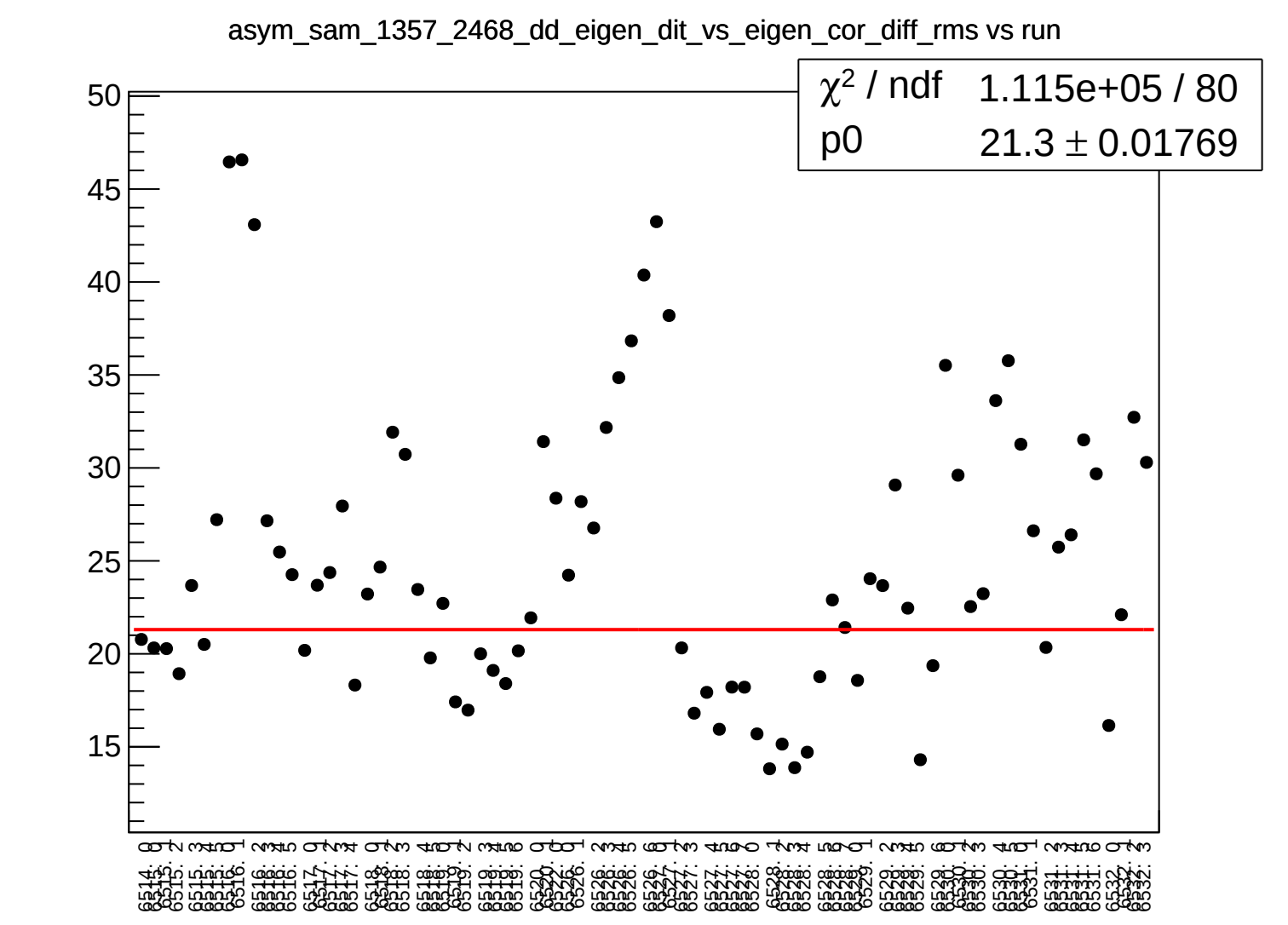

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.5 / 80
p0 2.25e−06 ± 3.285e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 81
Mean −466.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 81
Mean −0.008223
Std Dev 0.946
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

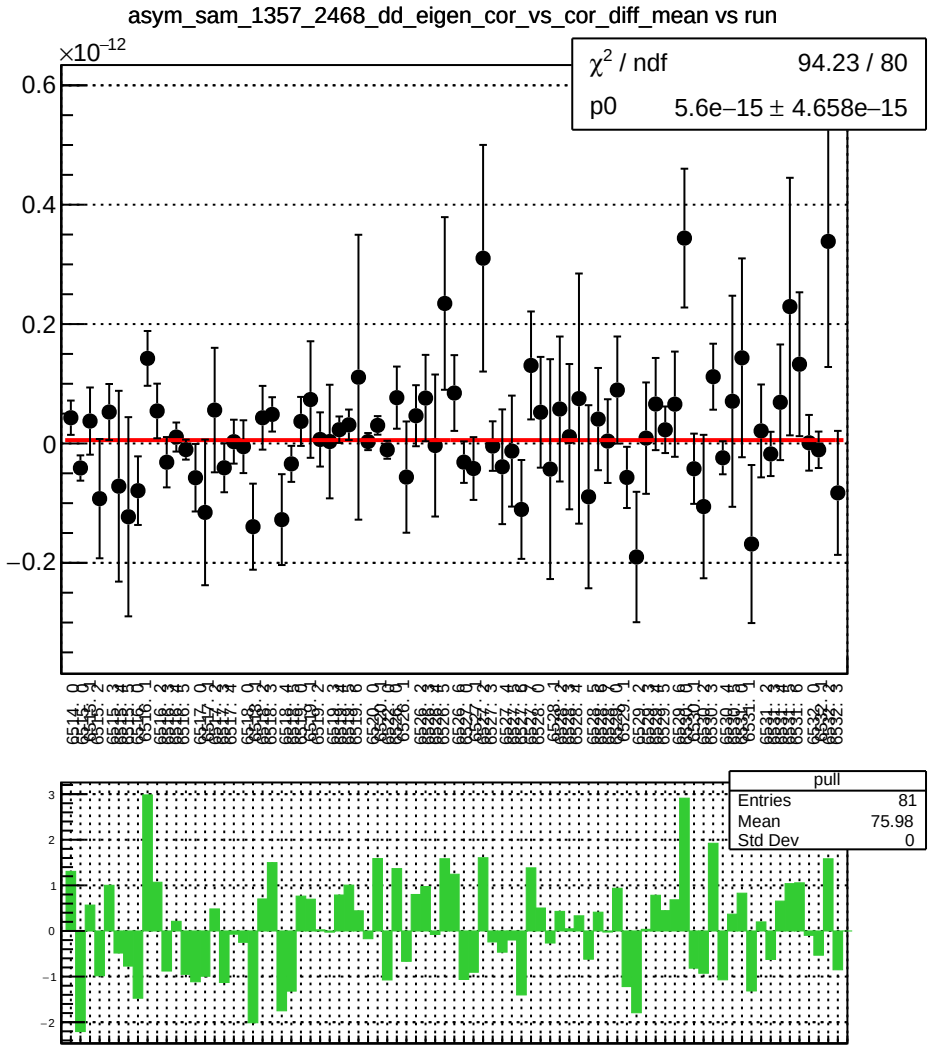

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.909e+04 / 80
p0 0.002875 ± 2.323e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022

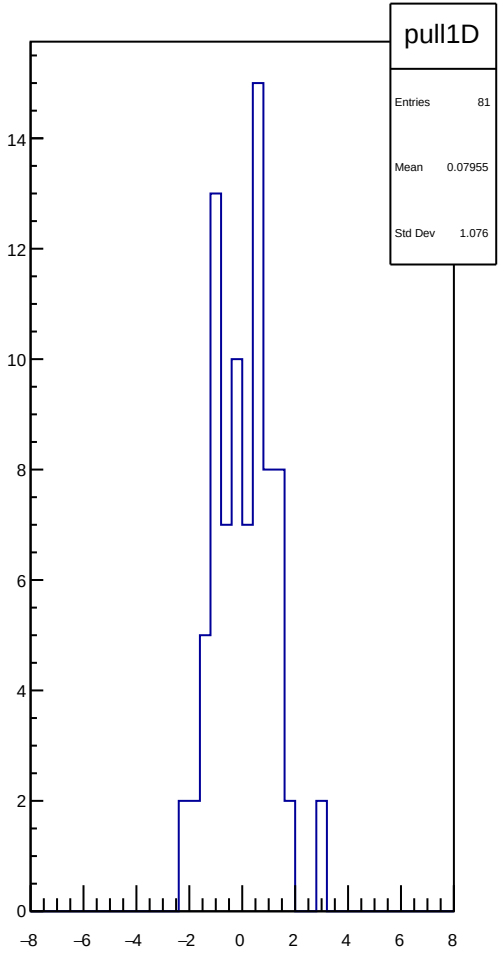

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 112.3 / 80
p0 0.03253 ± 0.02502
pull
Entries 81
Mean −312.5
Std Dev 0
pull1D
Entries 81
Mean −0.02737
Std Dev 1.177

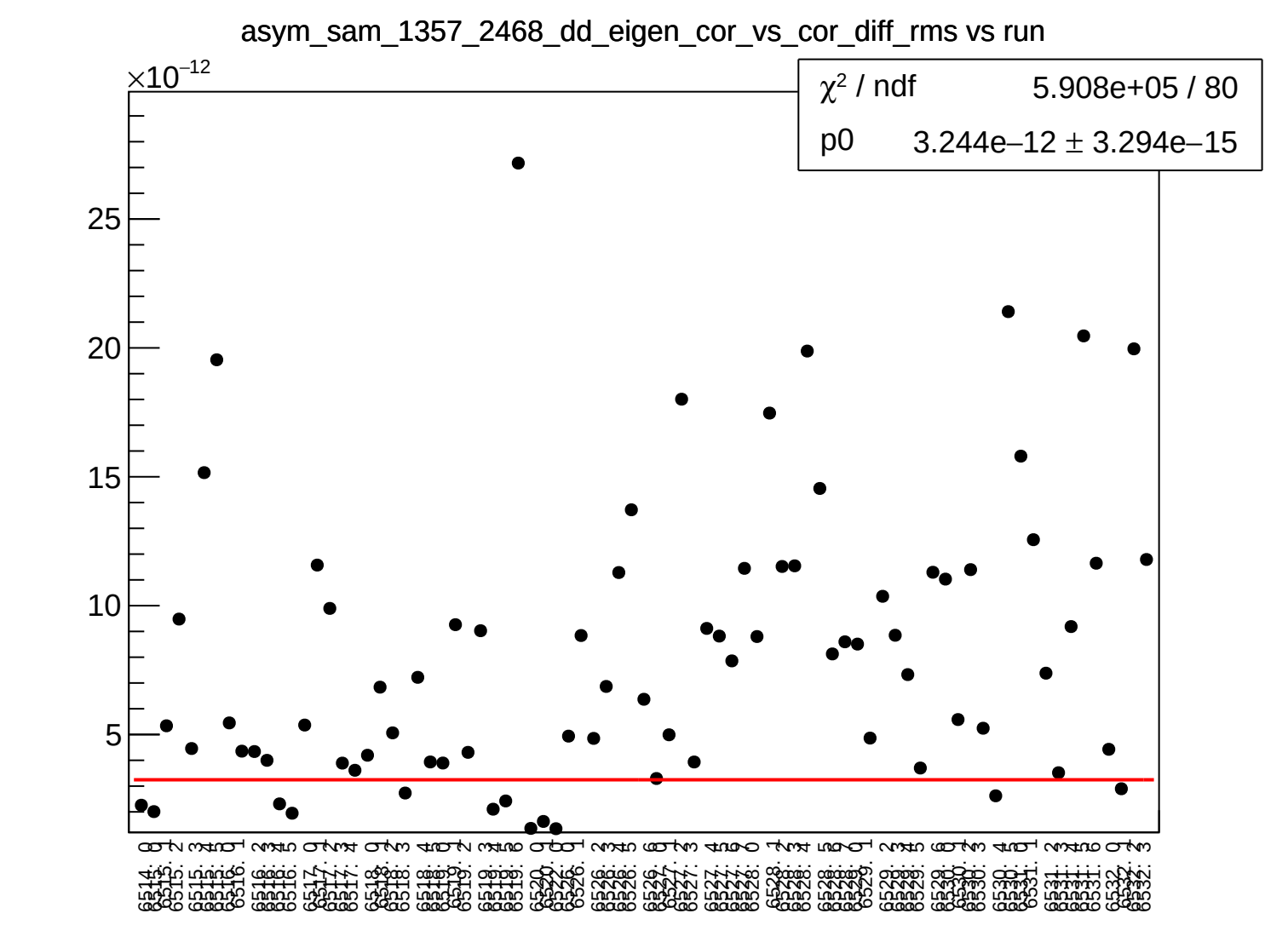

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.115e+05 / 80
p0 21.3 ± 0.01769
50
45
40
35
30
25
20
15

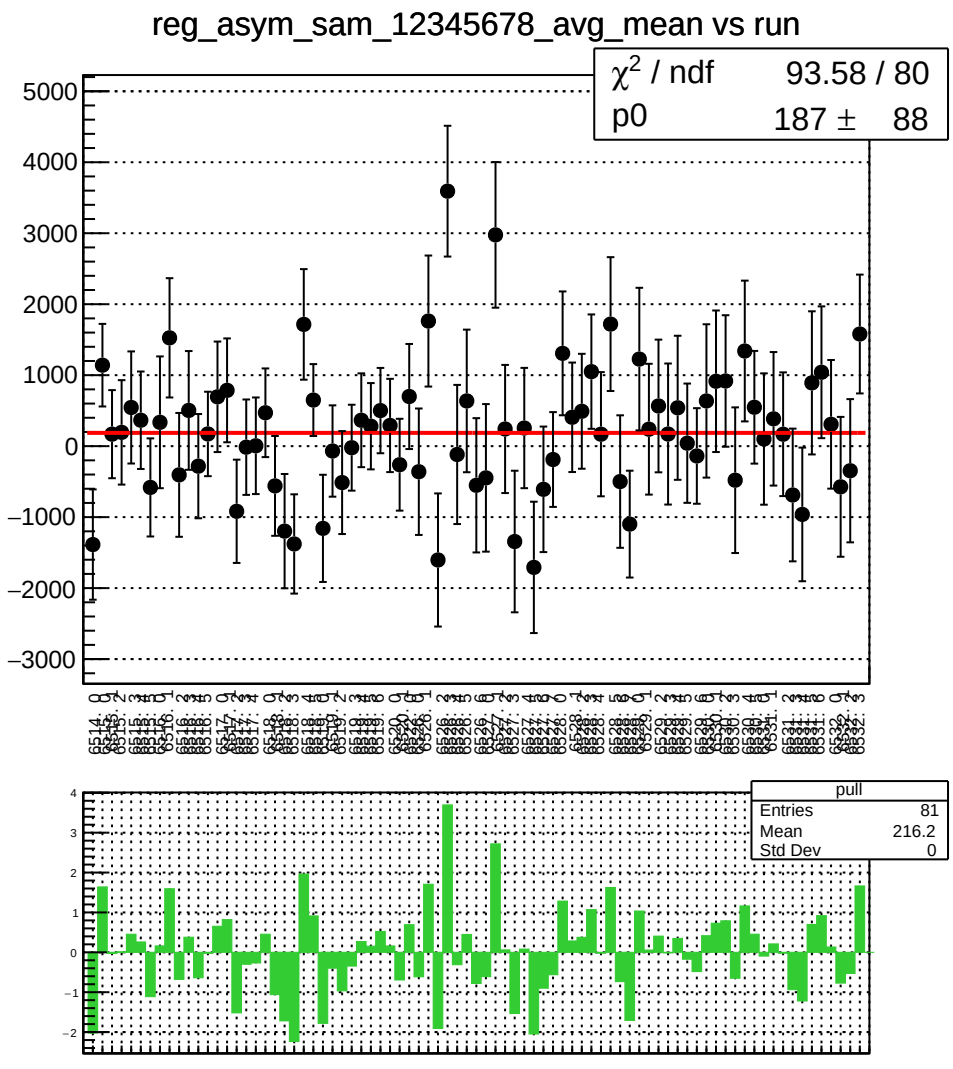

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.3 / 80
p0 0.03253 ± 0.02502
pull
Entries 81
Mean −312.5
Std Dev 0
pull1D
Entries 81
Mean −0.02737
Std Dev 1.177

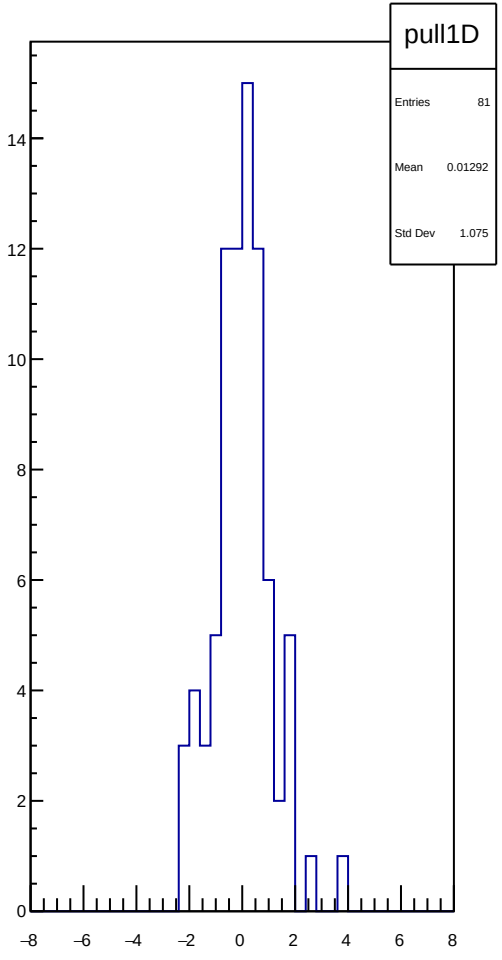

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.115e+05 / 80
p0 21.3 ± 0.01769
50
45
40
35
30
25
20
15

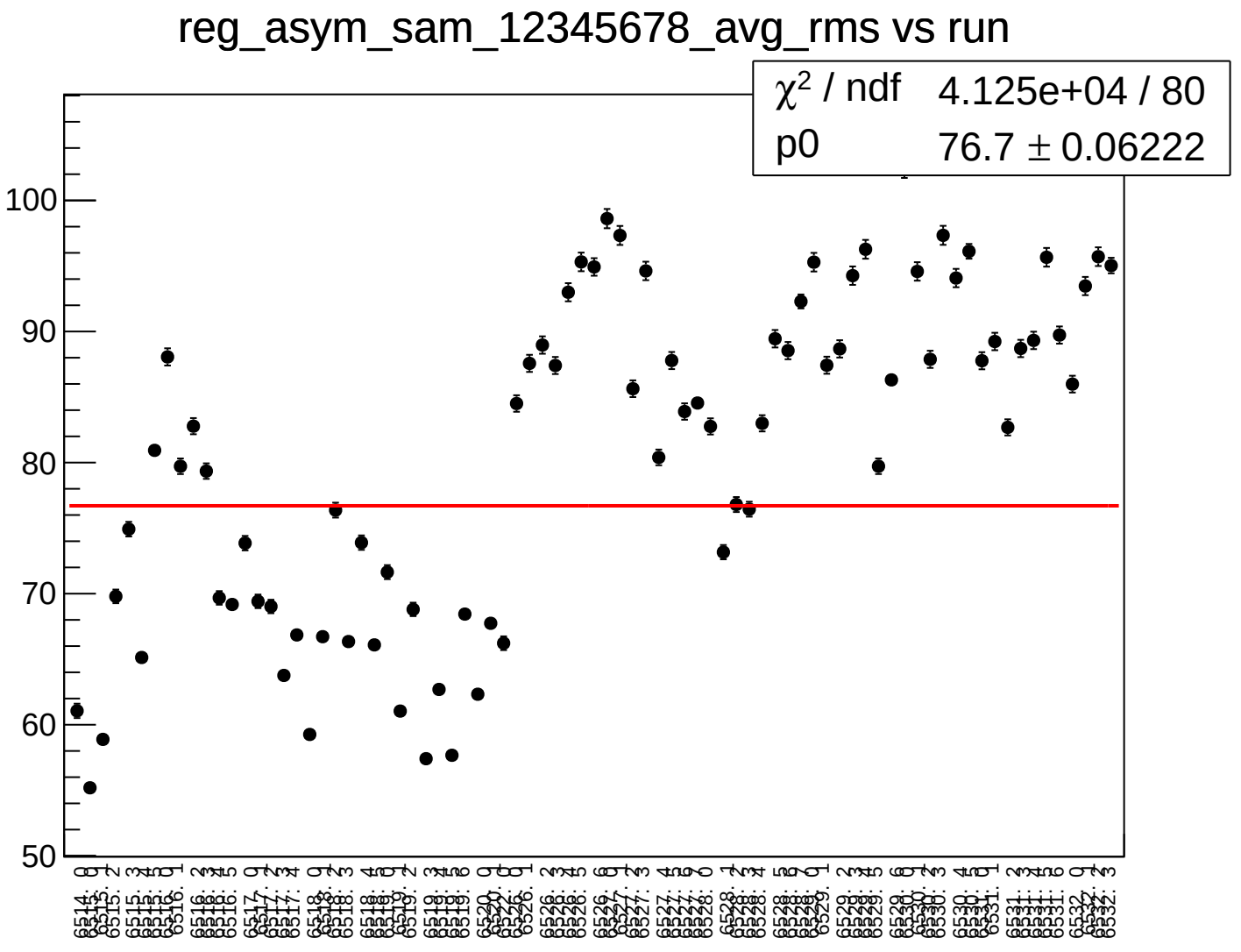

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.23 / 80
p0 5.6e−15 ± 4.658e−15
pull
Entries 81
Mean 75.98
Std Dev 0

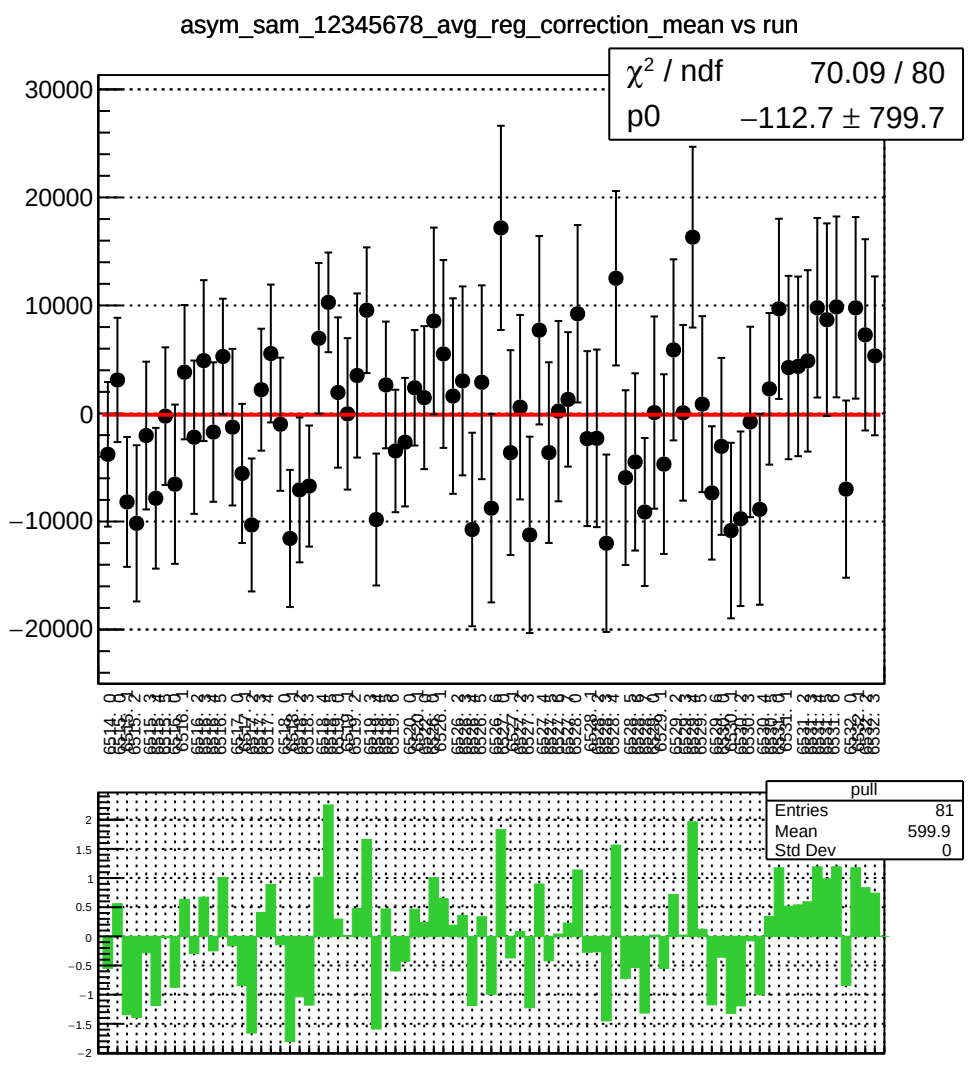

pull1D
Entries 81
Mean 0.07955
Std Dev 1.076

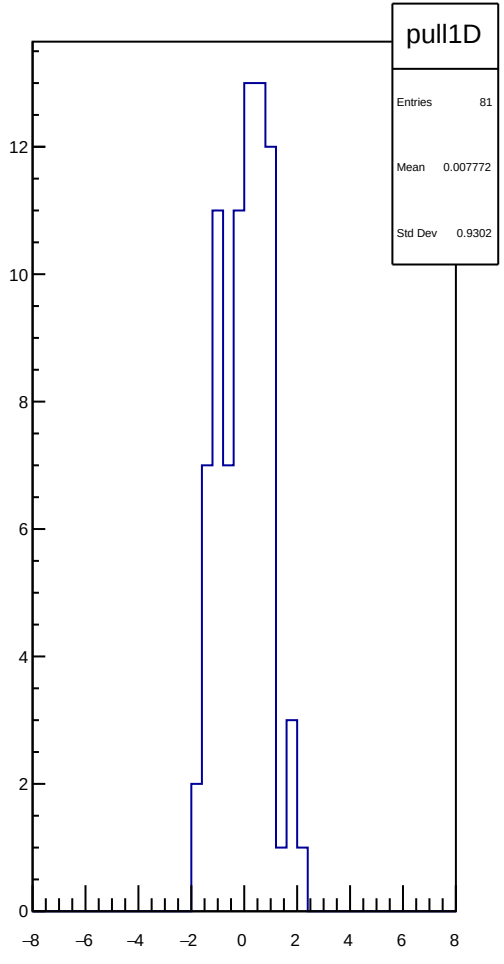

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.908e+05 / 80
p0 3.244e−12 ± 3.294e−15
25
20
15
10
5

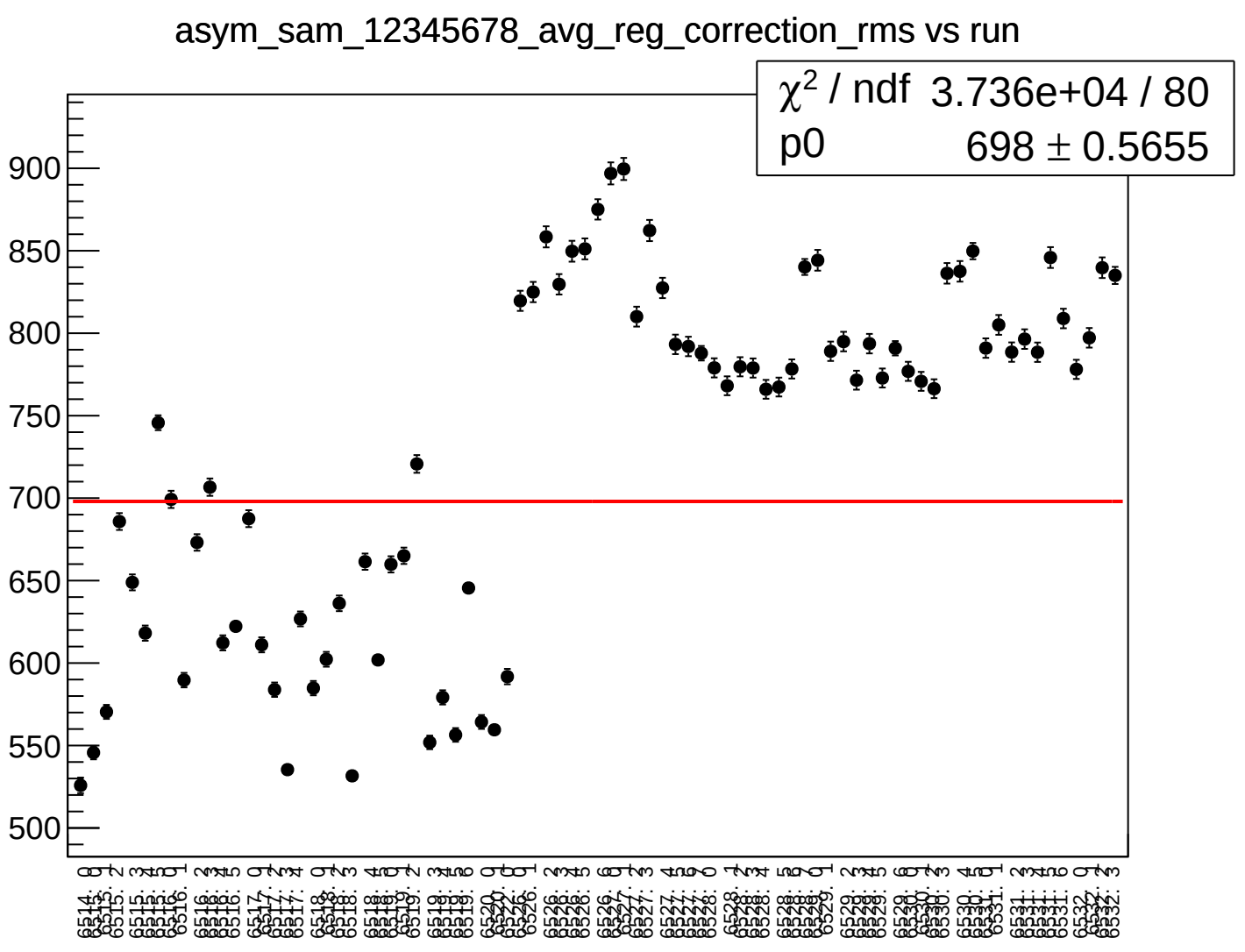

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 93.58 / 80
p0 187 ± 88
pull
Entries 81
Mean 216.2
Std Dev 0

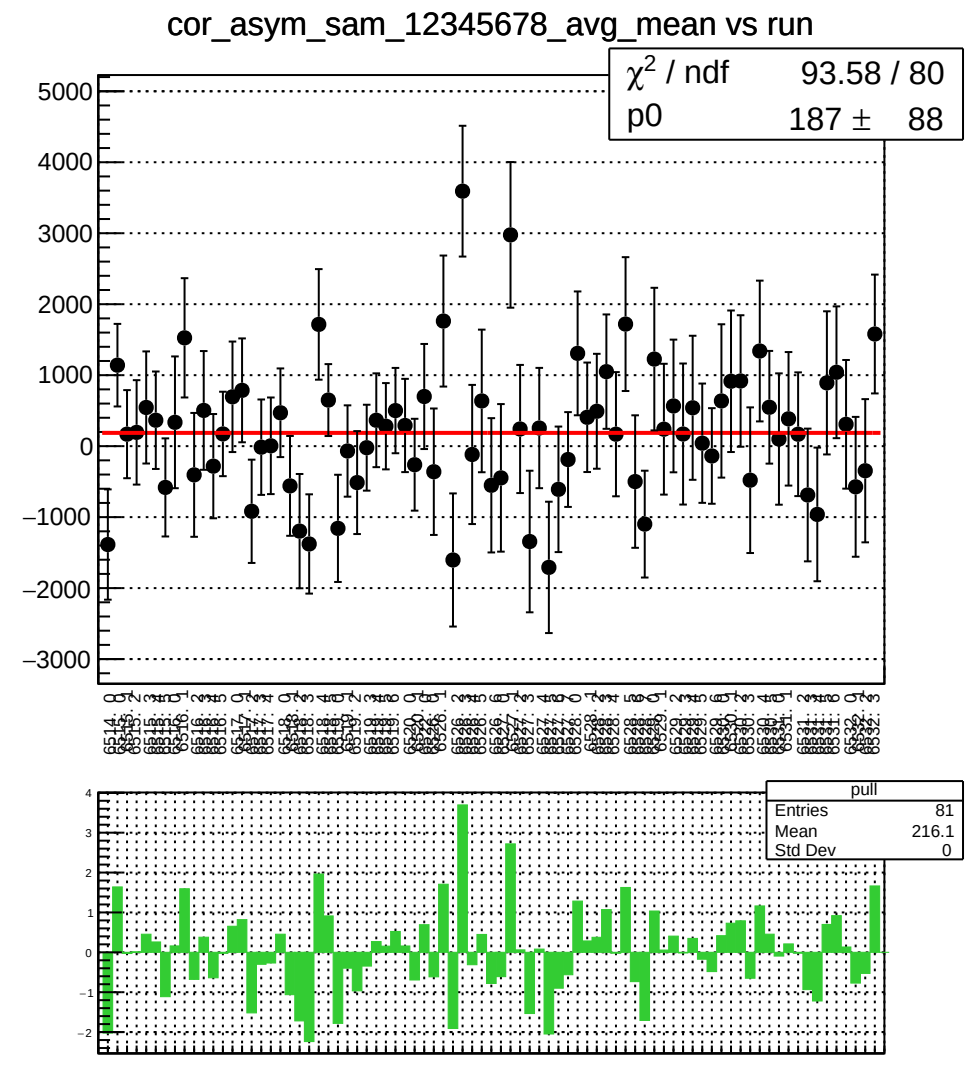

pull1D
Entries 81
Mean 0.01292
Std Dev 1.075

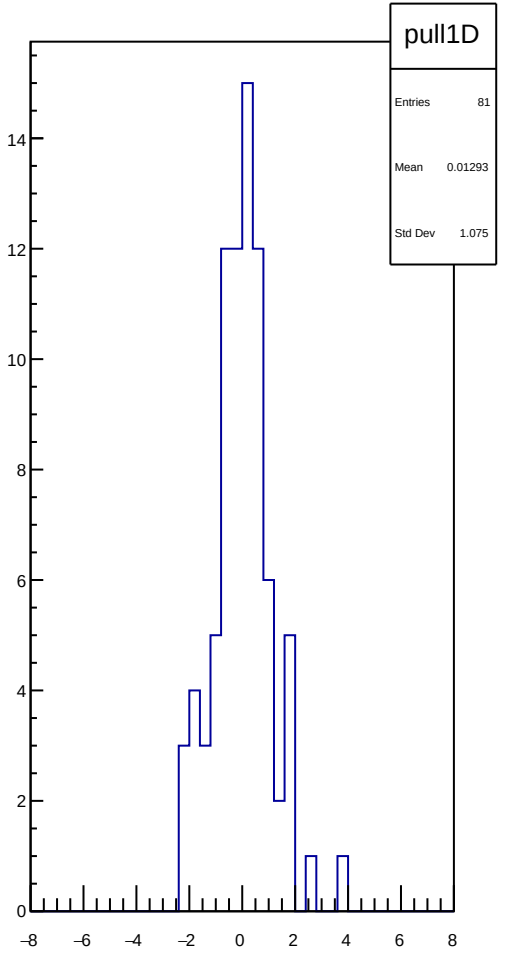

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 4.125e+04 / 80
p0 76.7 ± 0.06222
100
90
80
70
60
50

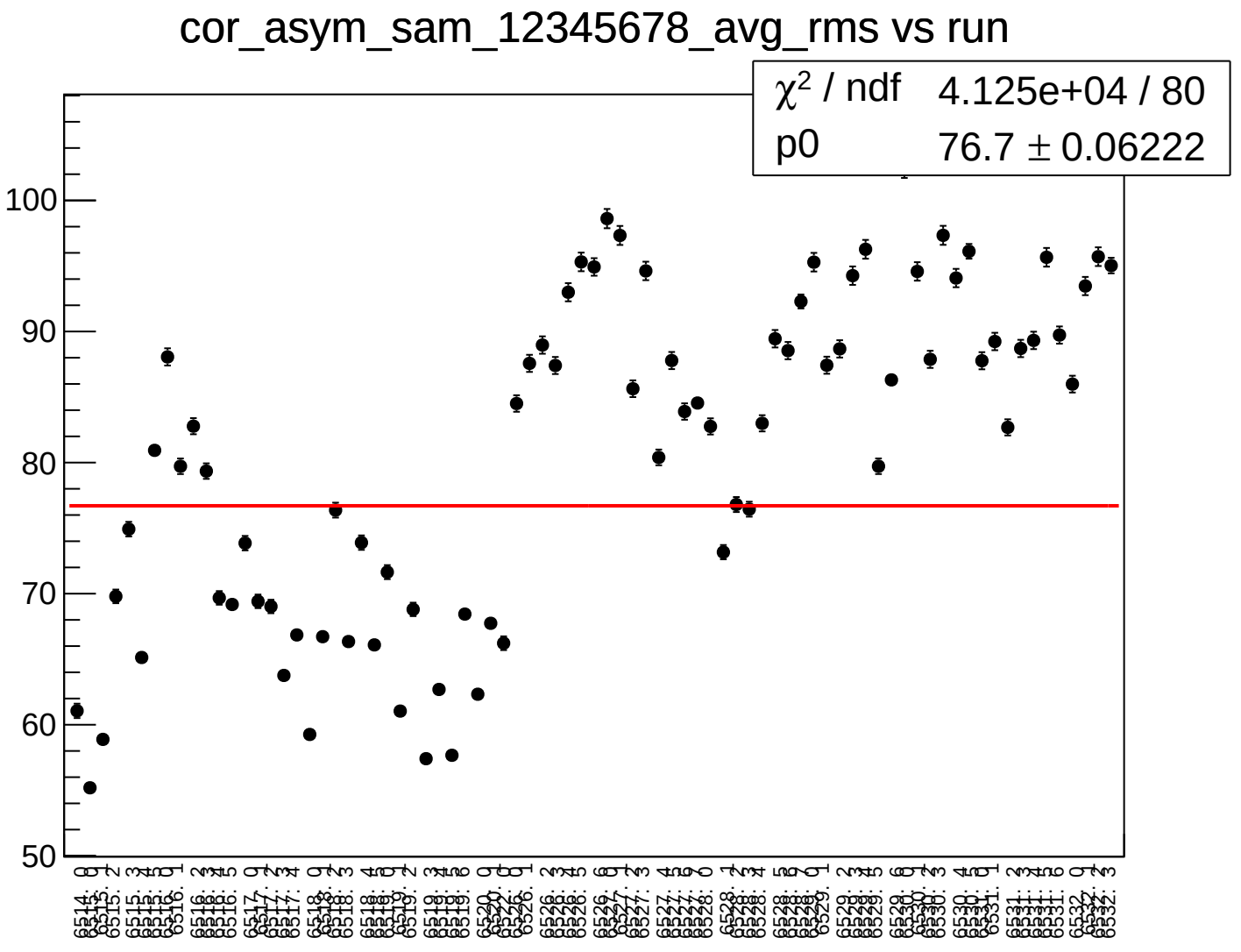

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 70.09 / 80
p0 −112.7 ± 799.7
30000
20000
10000
0
−10000
−20000
pull
Entries 81
Mean 599.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

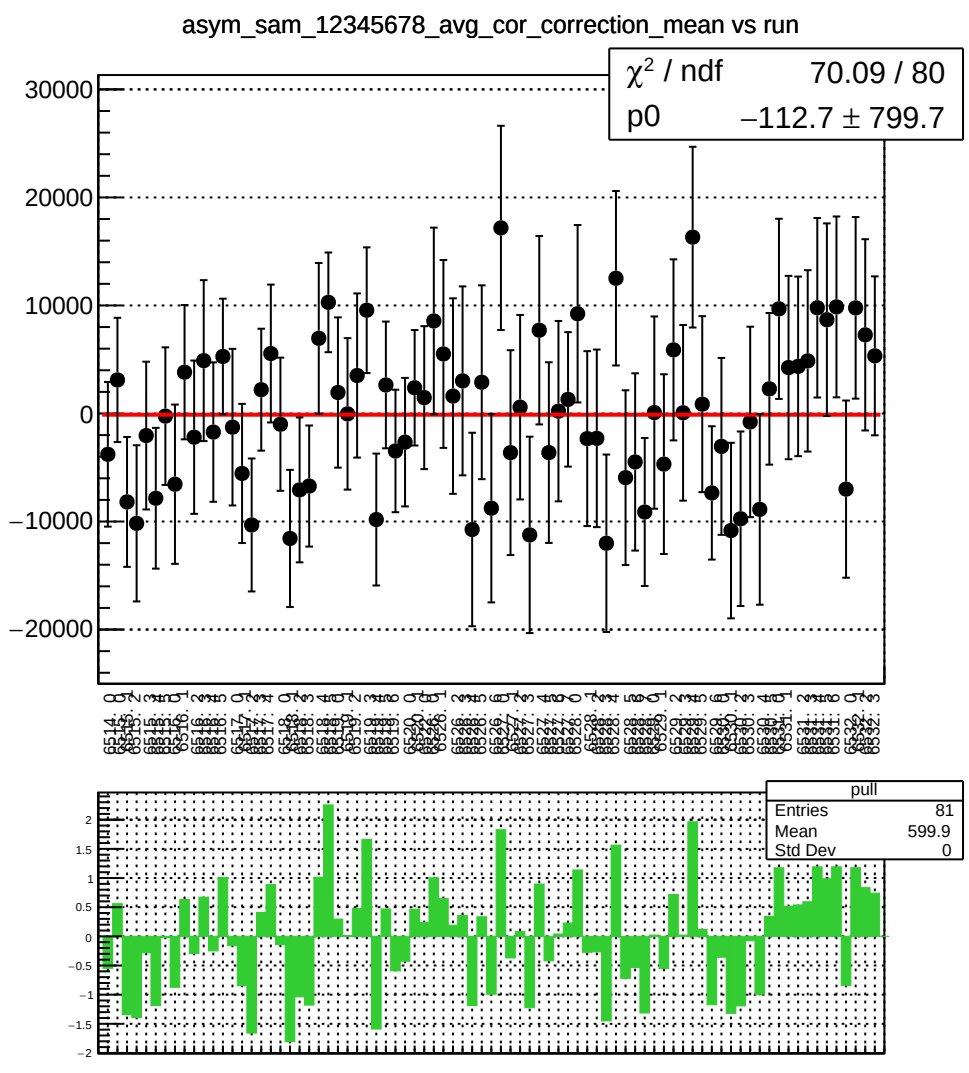

pull1D
Entries 81
Mean 0.007772
Std Dev 0.9302
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

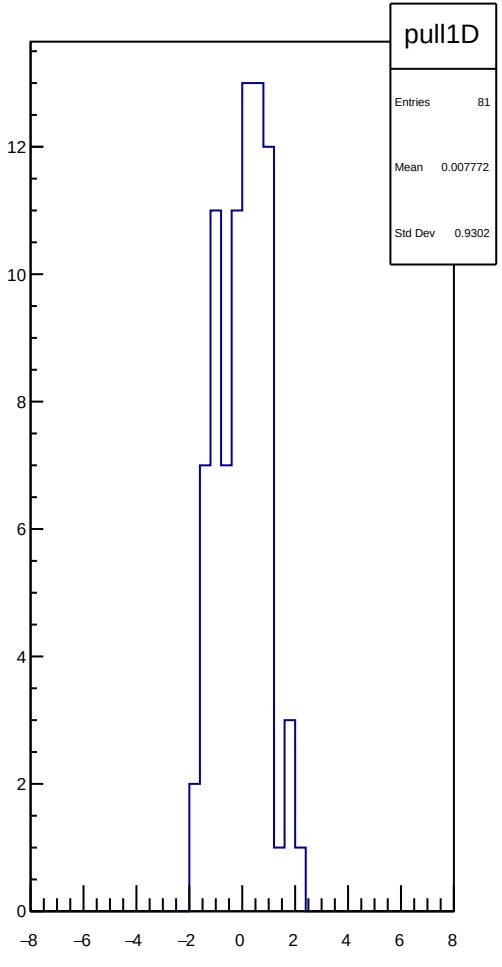

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 3.736e+04 / 80
p0 698 ± 0.5655
900
850
800
750
700
650
600
550
500

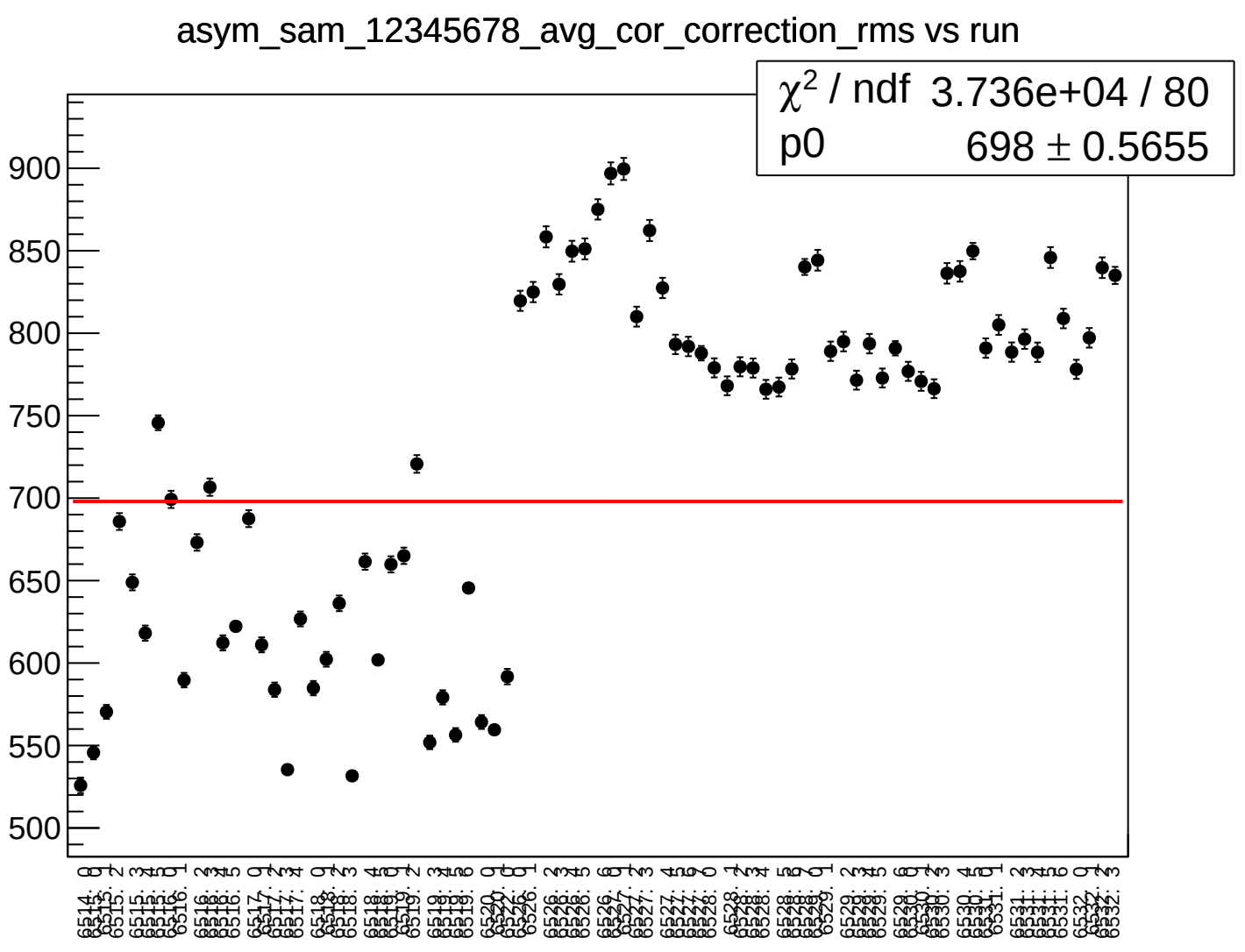

cor_asym_sam_12345678_avg_mean vs run
χ^2 / ndf 93.58 / 80
p0 187 ± 88
pull
Entries 81
Mean 216.1
Std Dev 0

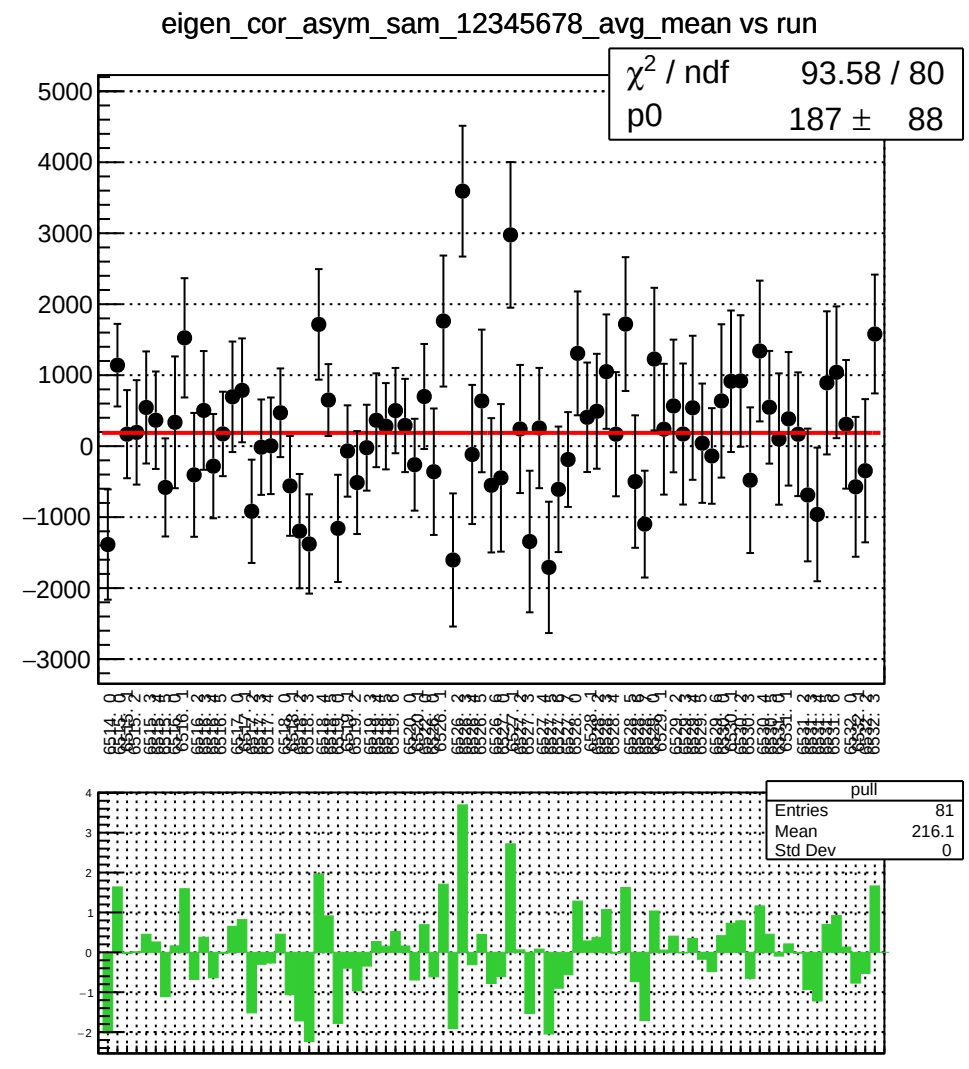

pull1D
Entries 81
Mean 0.01293
Std Dev 1.075

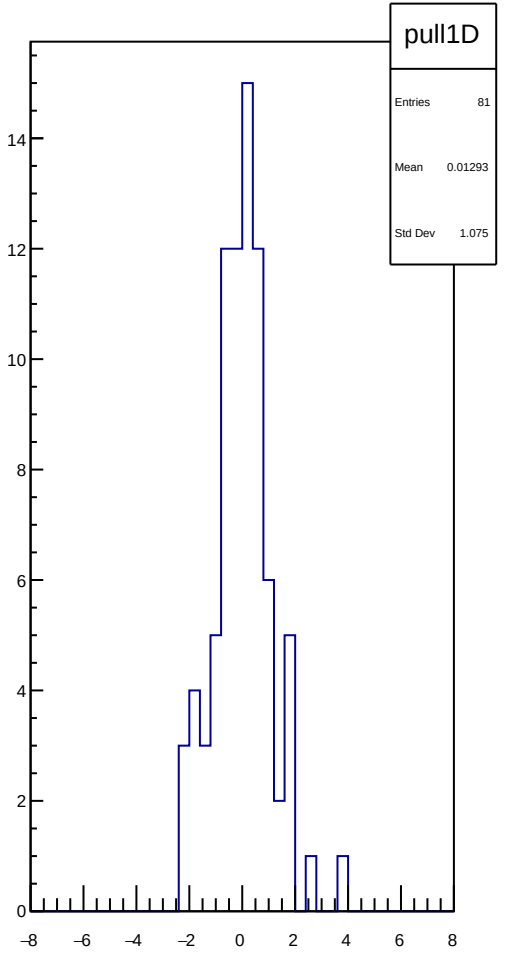

cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 4.125e+04 / 80
p0 76.7 ± 0.06222
100
90
80
70
60
50

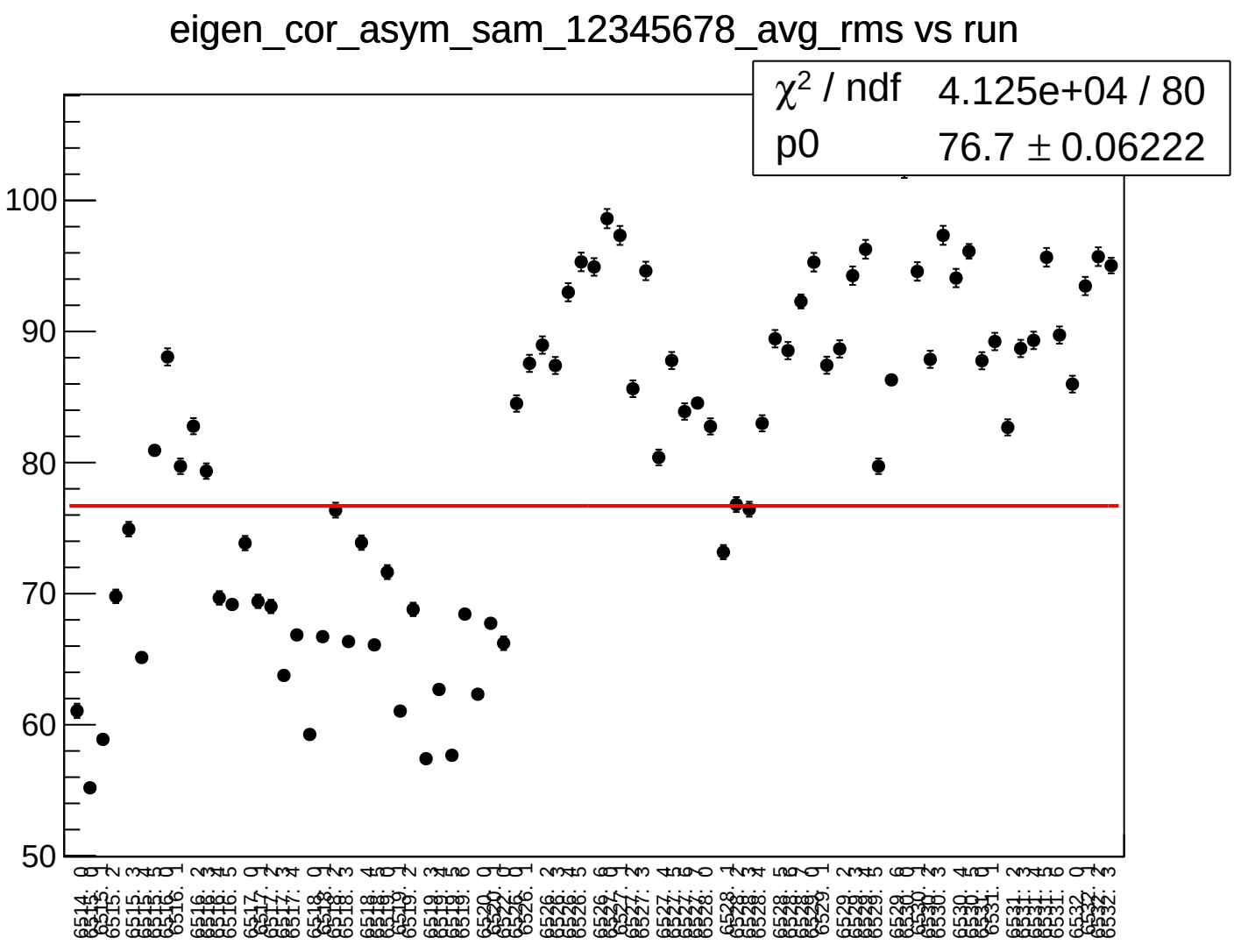

asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 70.09 / 80
p0 −112.7 ± 799.7
30000
20000
10000
0
−10000
−20000
pull
Entries 81
Mean 599.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

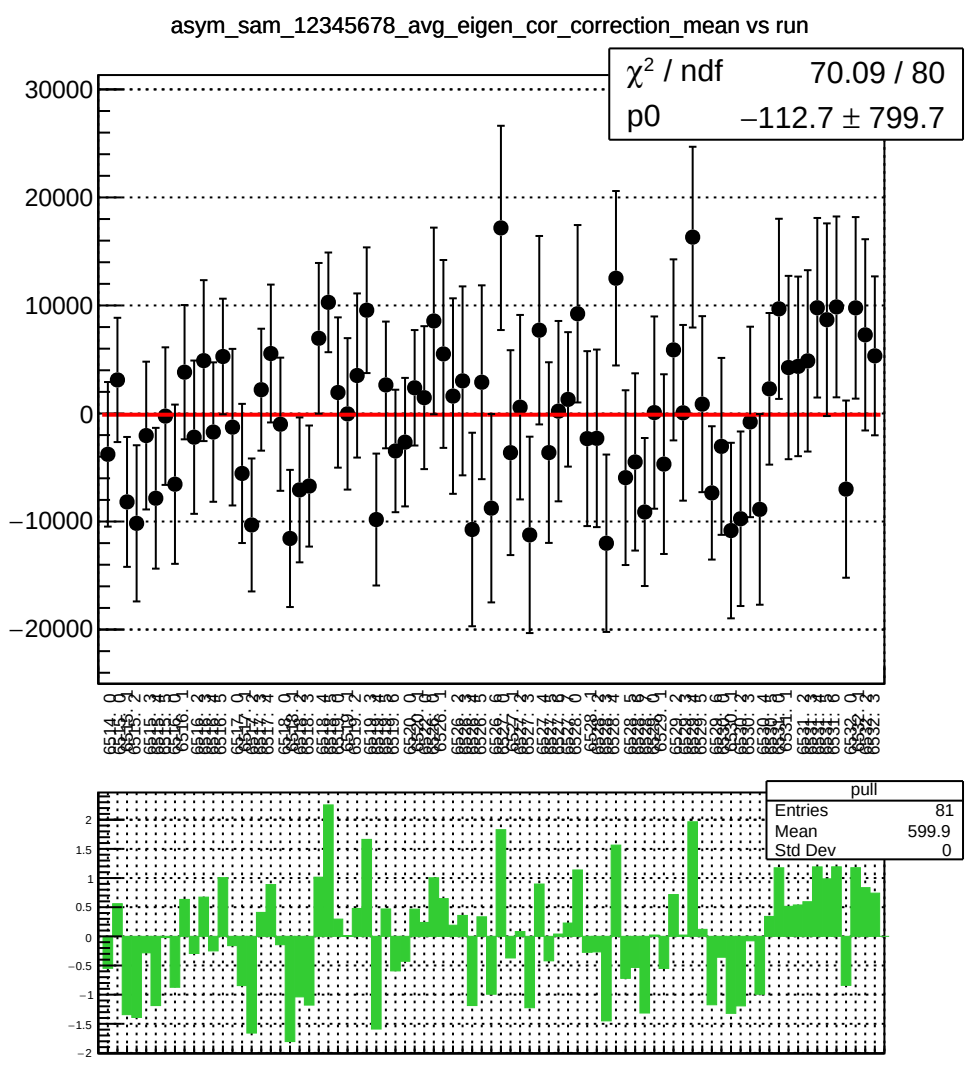

pull1D
Entries 81
Mean 0.007772
Std Dev 0.9302
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

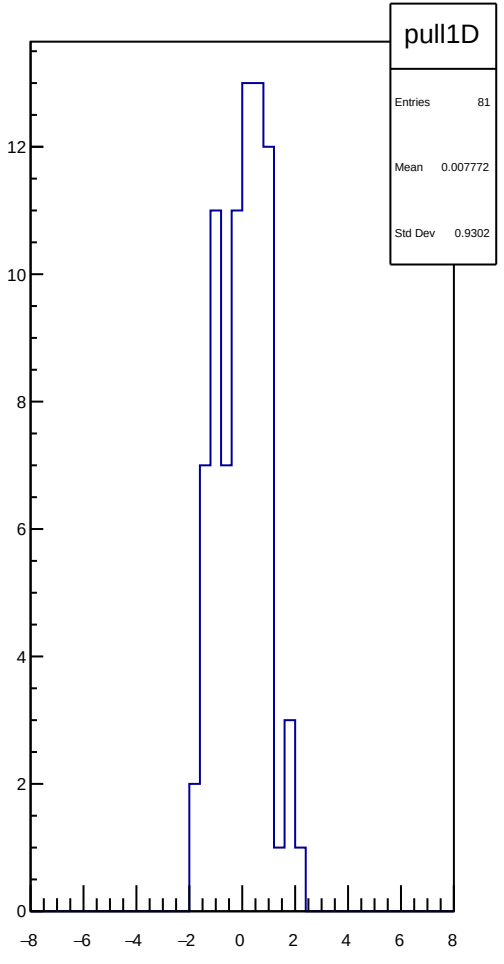

asym_sam_12345678_avg_cor_correction_rms vs run
χ^2 / ndf 3.736e+04 / 80
p0 698 ± 0.5655
900
850
800
750
700
650
600
550
500

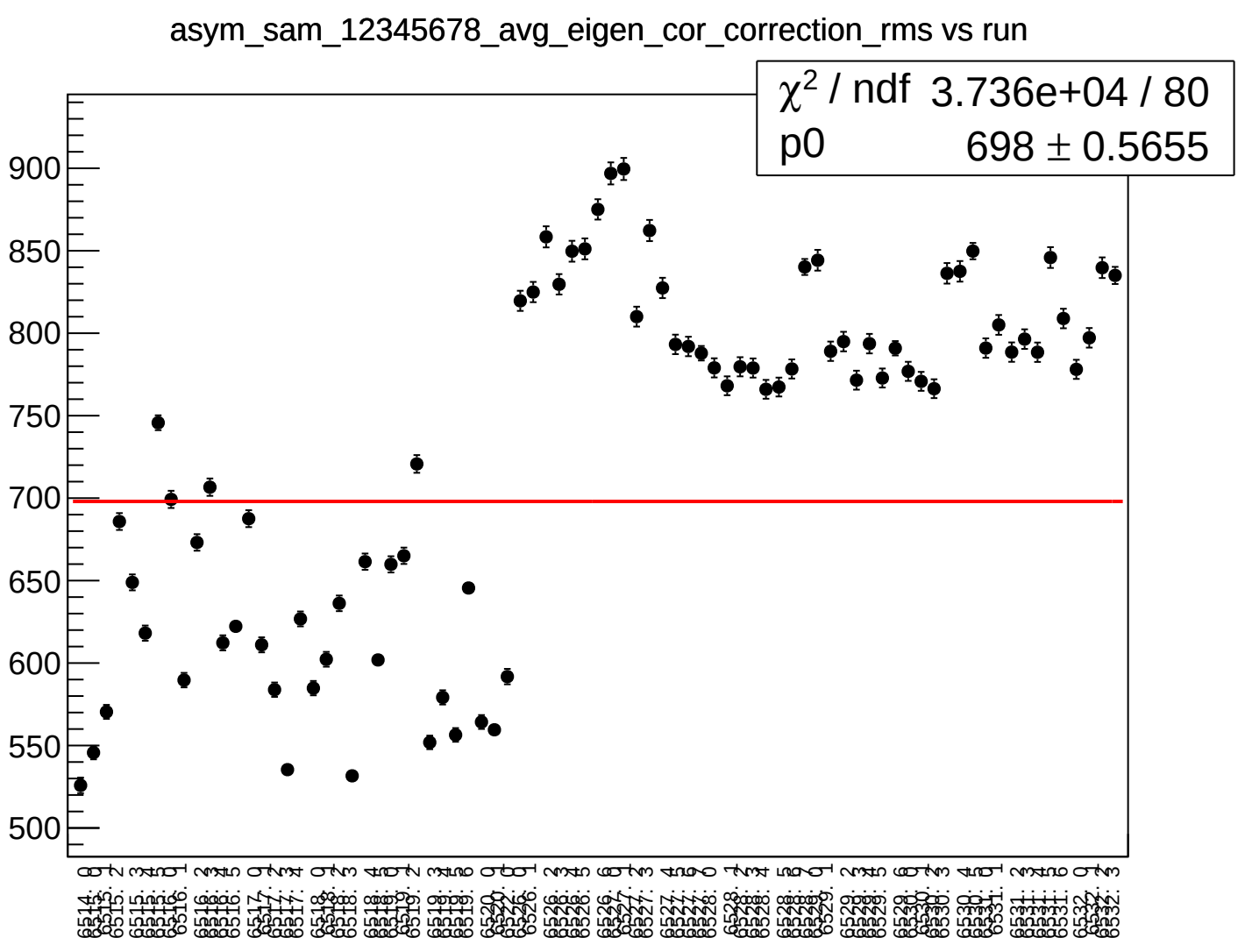

eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 93.58 / 80
p0 187 ± 88
pull
Entries 81
Mean 216.1
Std Dev 0

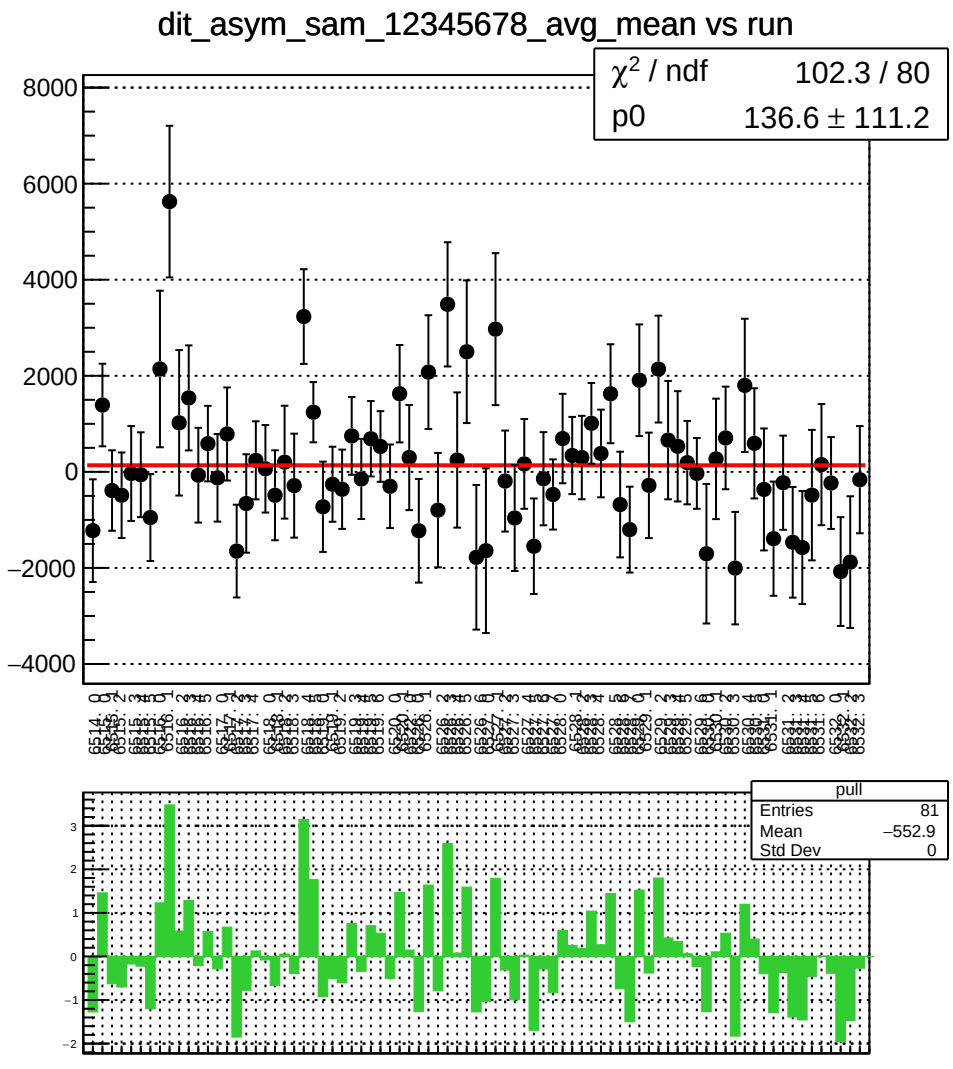

pull1D
Entries 81
Mean 0.01293
Std Dev 1.075

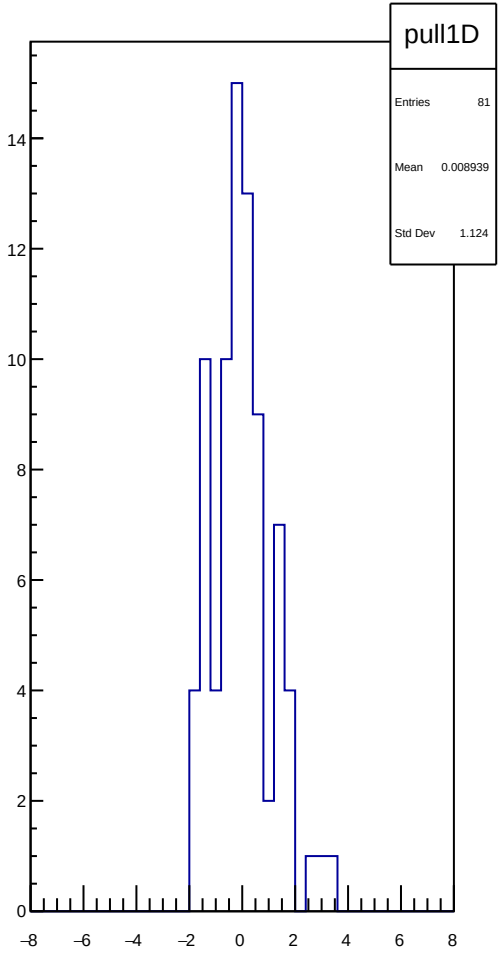

eigen_cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 4.125e+04 / 80
p0 76.7 ± 0.06222
100
90
80
70
60
50

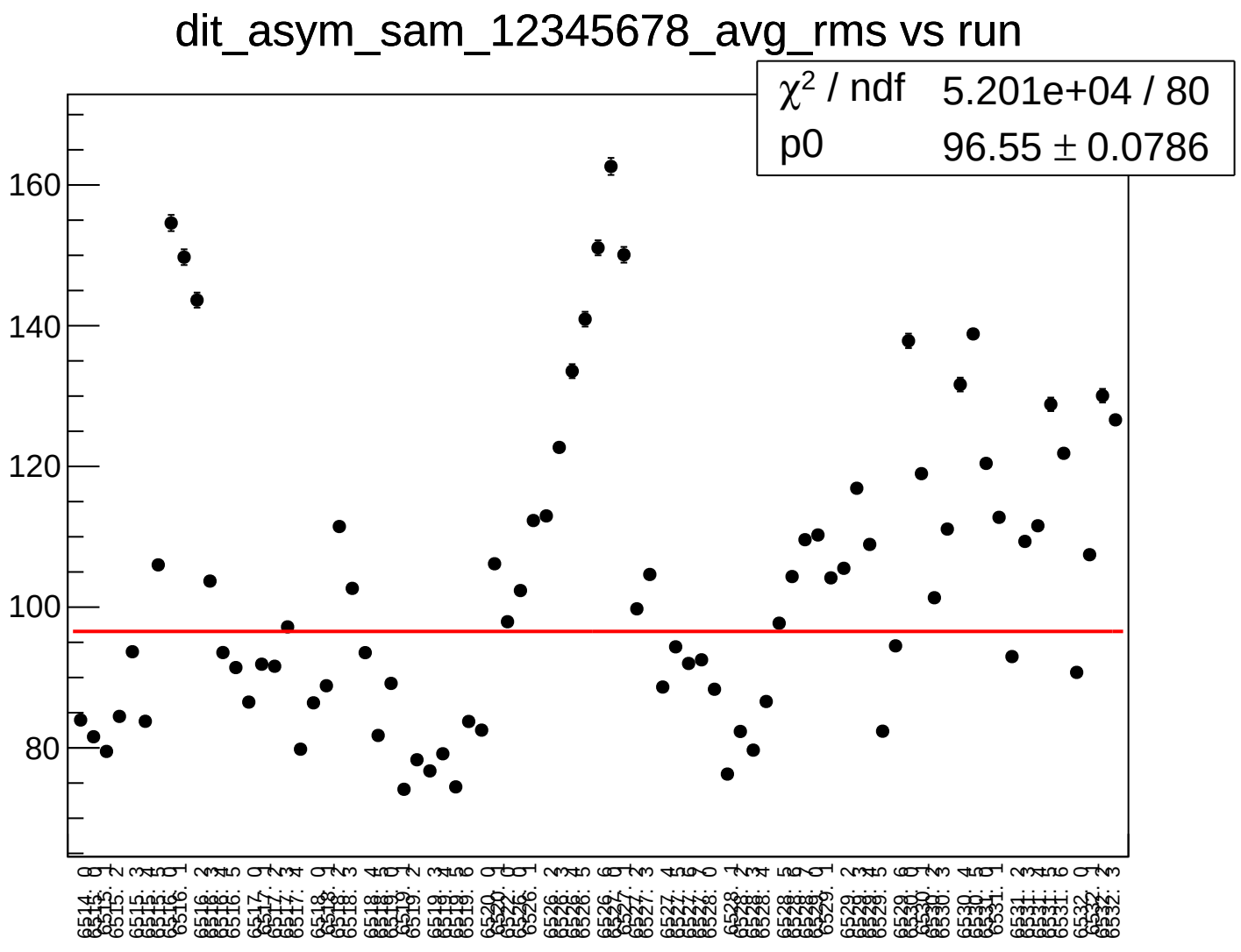

asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 70.09 / 80
p0 −112.7 ± 799.7
30000
20000
10000
0
−10000
−20000
pull
Entries 81
Mean 599.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

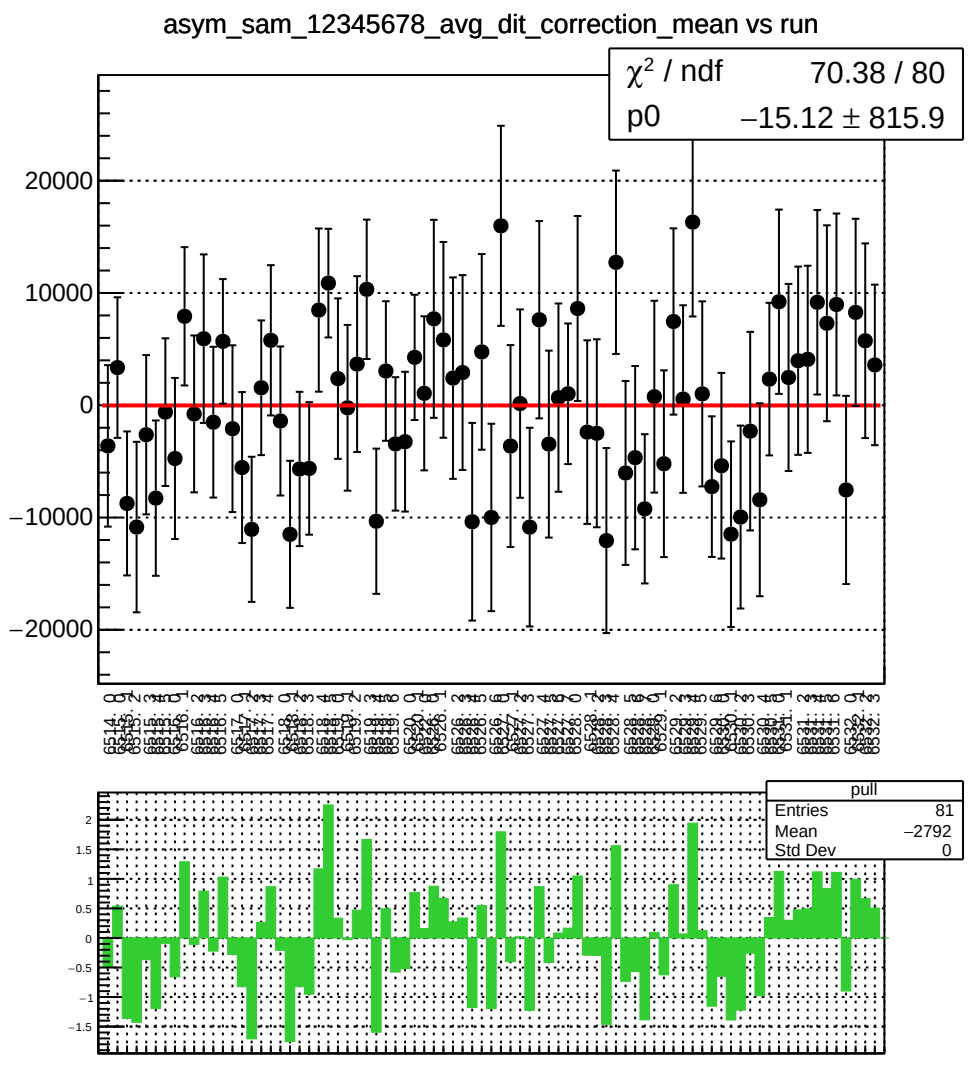

pull1D
Entries 81
Mean 0.007772
Std Dev 0.9302
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

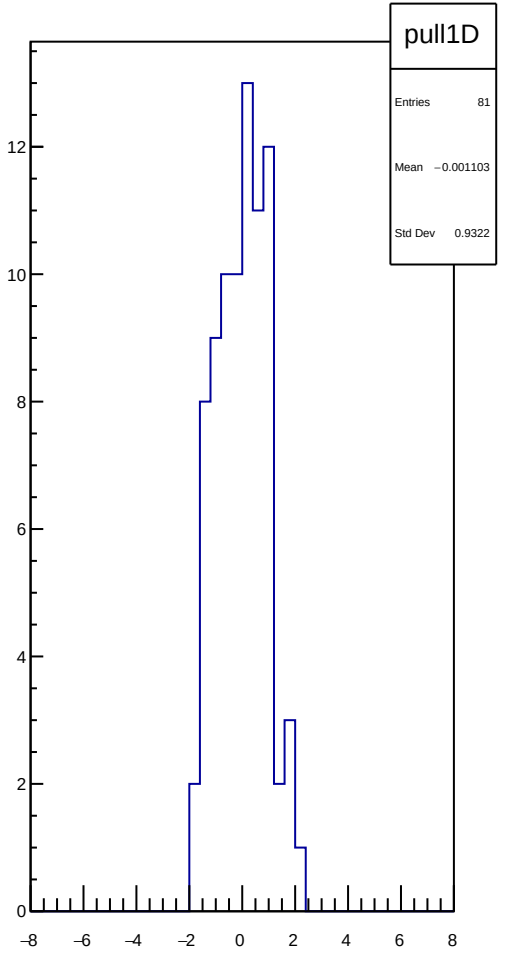

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.736e+04 / 80
p0 698 ± 0.5655
900
850
800
750
700
650
600
550
500

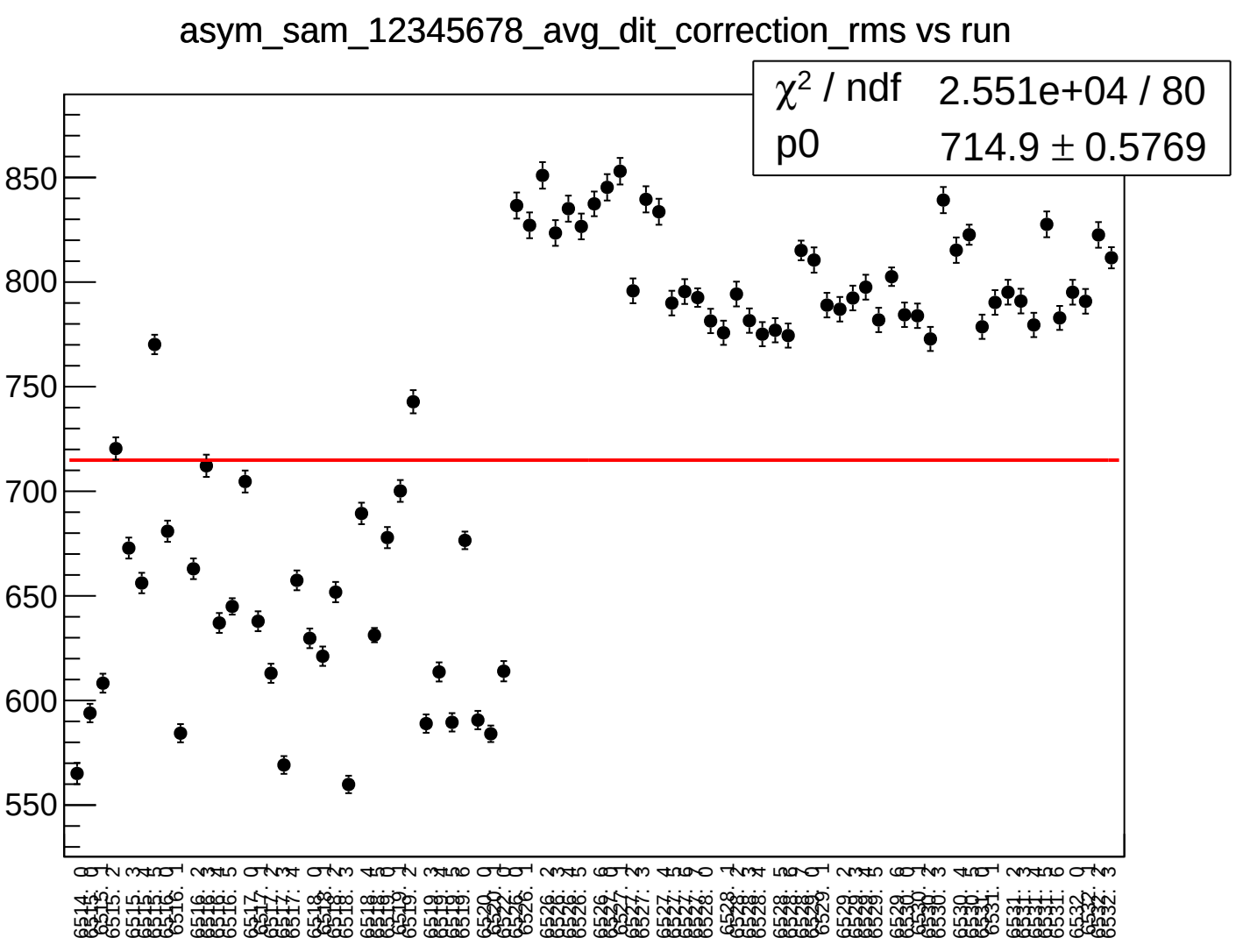

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 102.3 / 80
p0 136.6 ± 111.2
pull
Entries 81
Mean −552.9
Std Dev 0

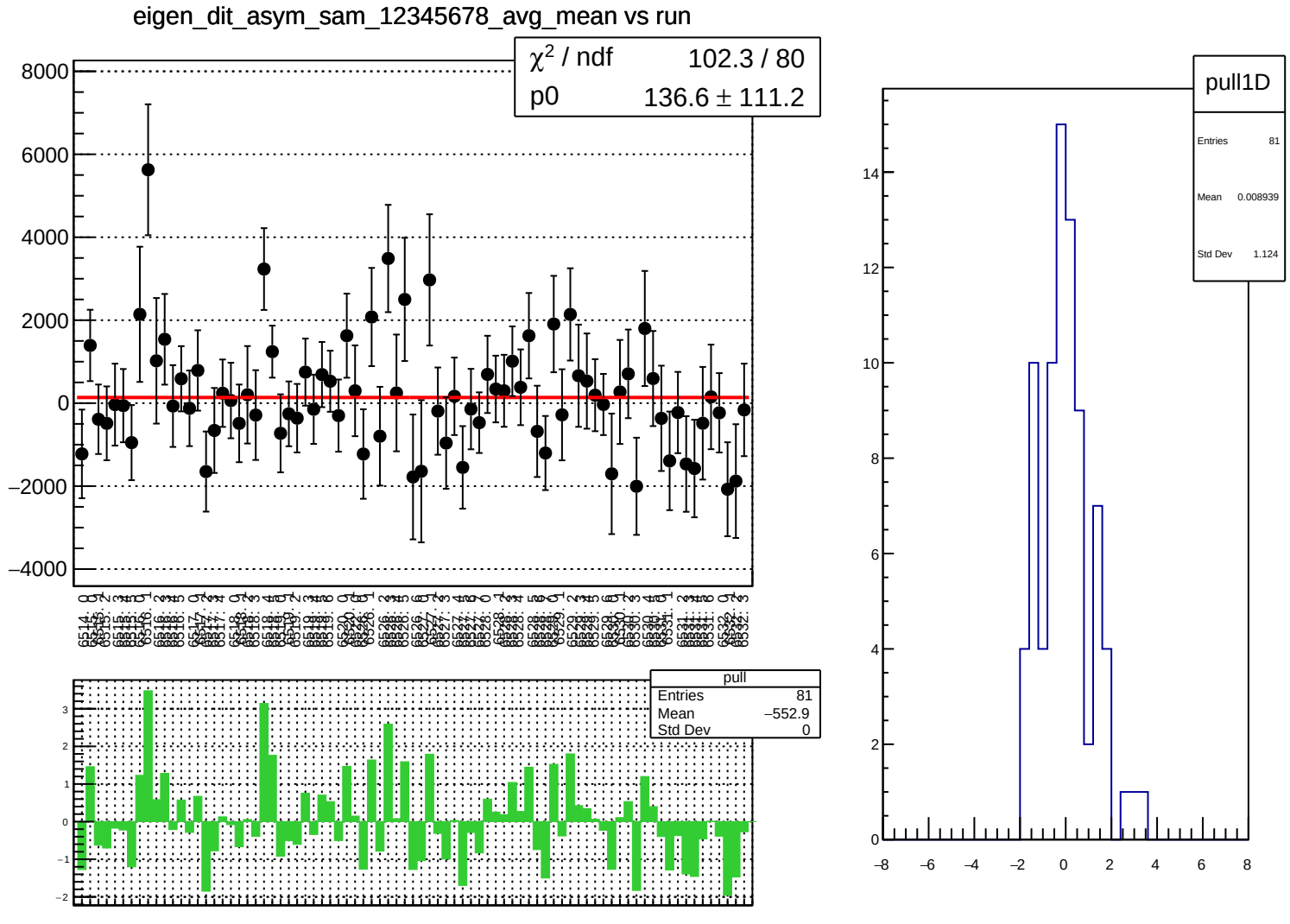

pull1D
Entries 81
Mean 0.008939
Std Dev 1.124

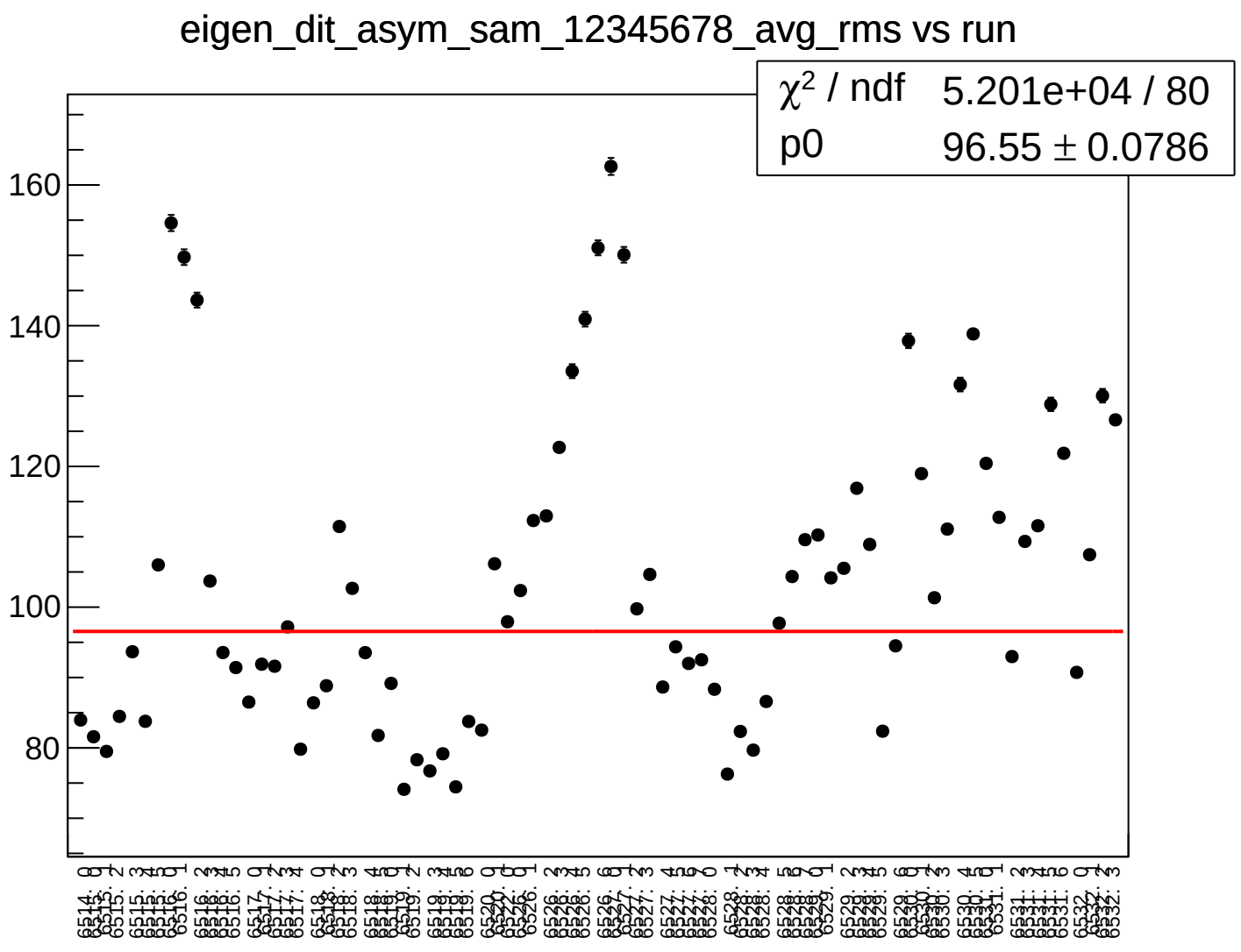

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 5.201e+04 / 80
p0 96.55 ± 0.0786
160
140
120
100
80

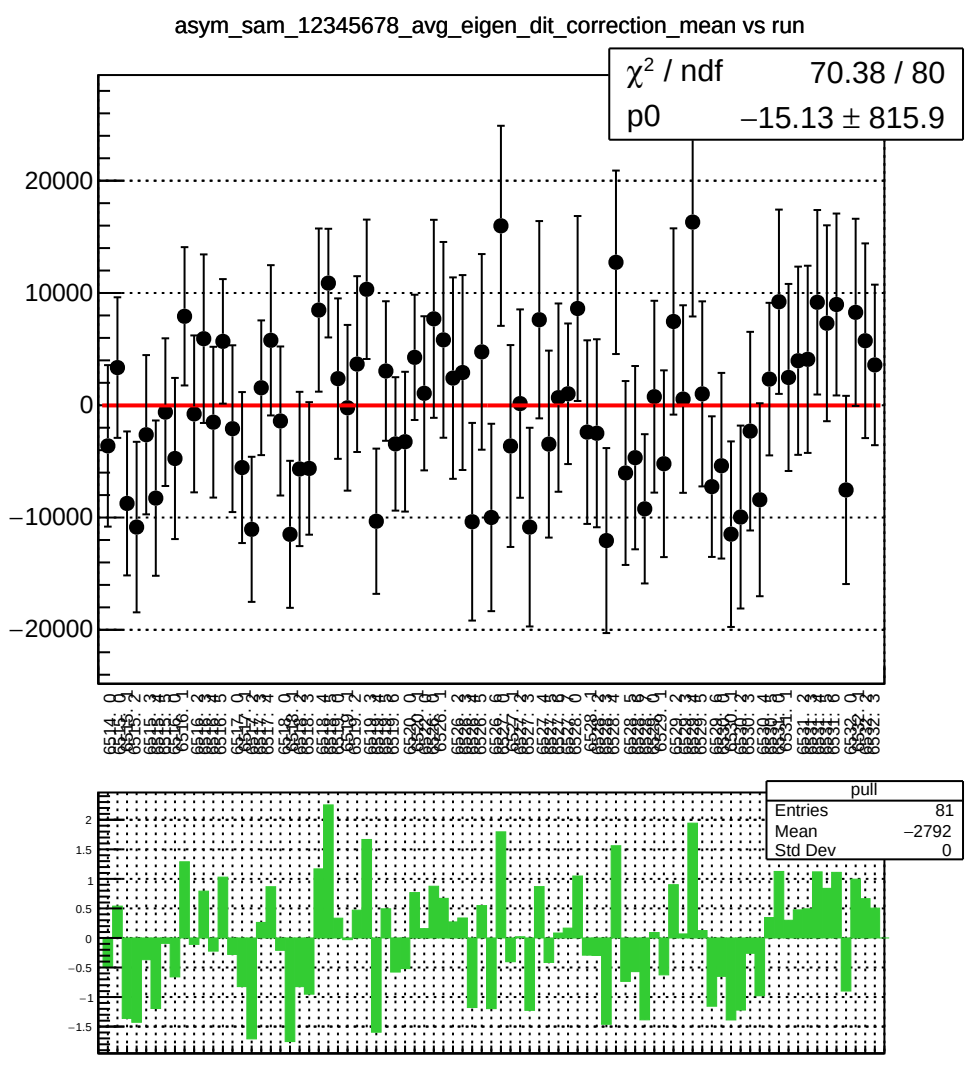

asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 70.38 / 80
p0 −15.12 ± 815.9
20000
10000
0
−10000
−20000
pull
Entries 81
Mean −2792
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

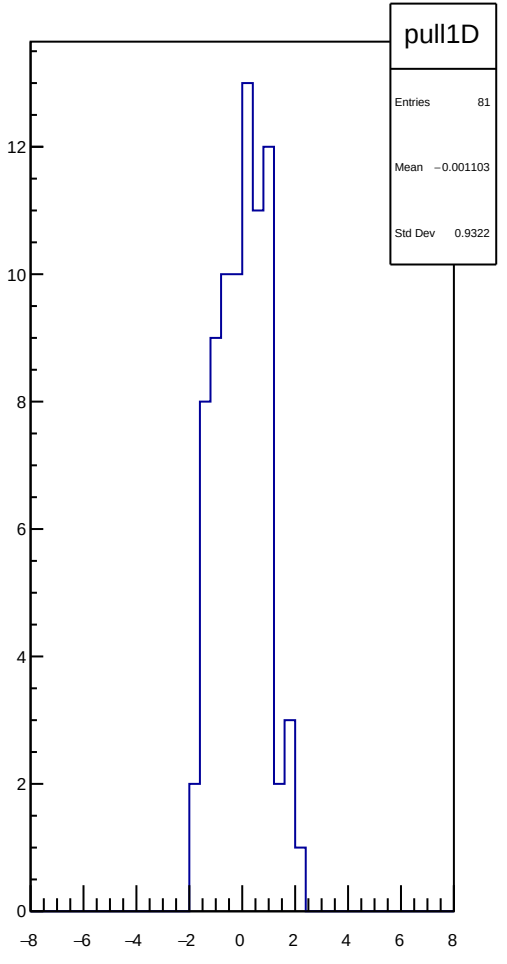

pull1D
Entries 81
Mean −0.001103
Std Dev 0.9322
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

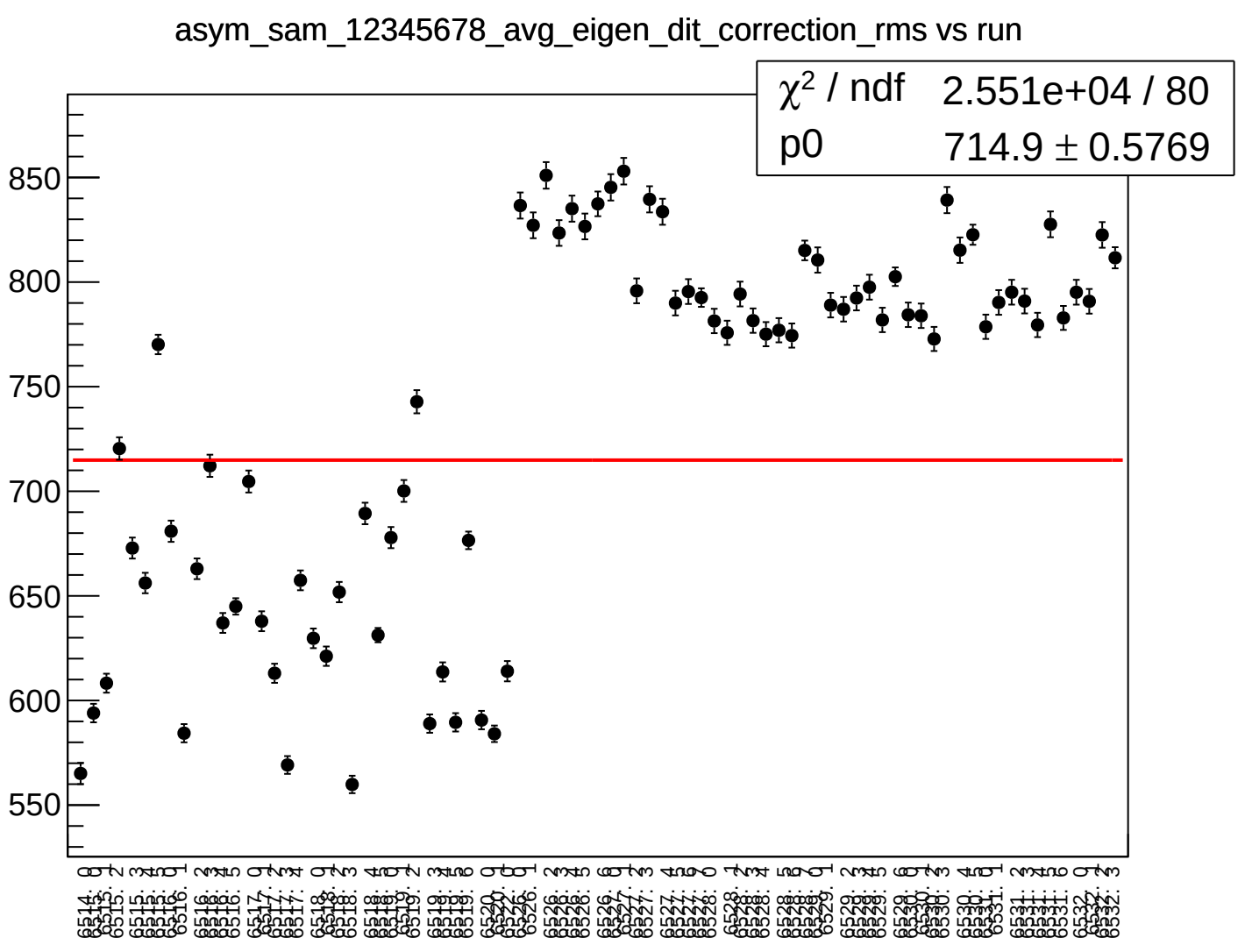

asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 2.551e+04 / 80
p0 714.9 ± 0.5769
850
800
750
700
650
600
550

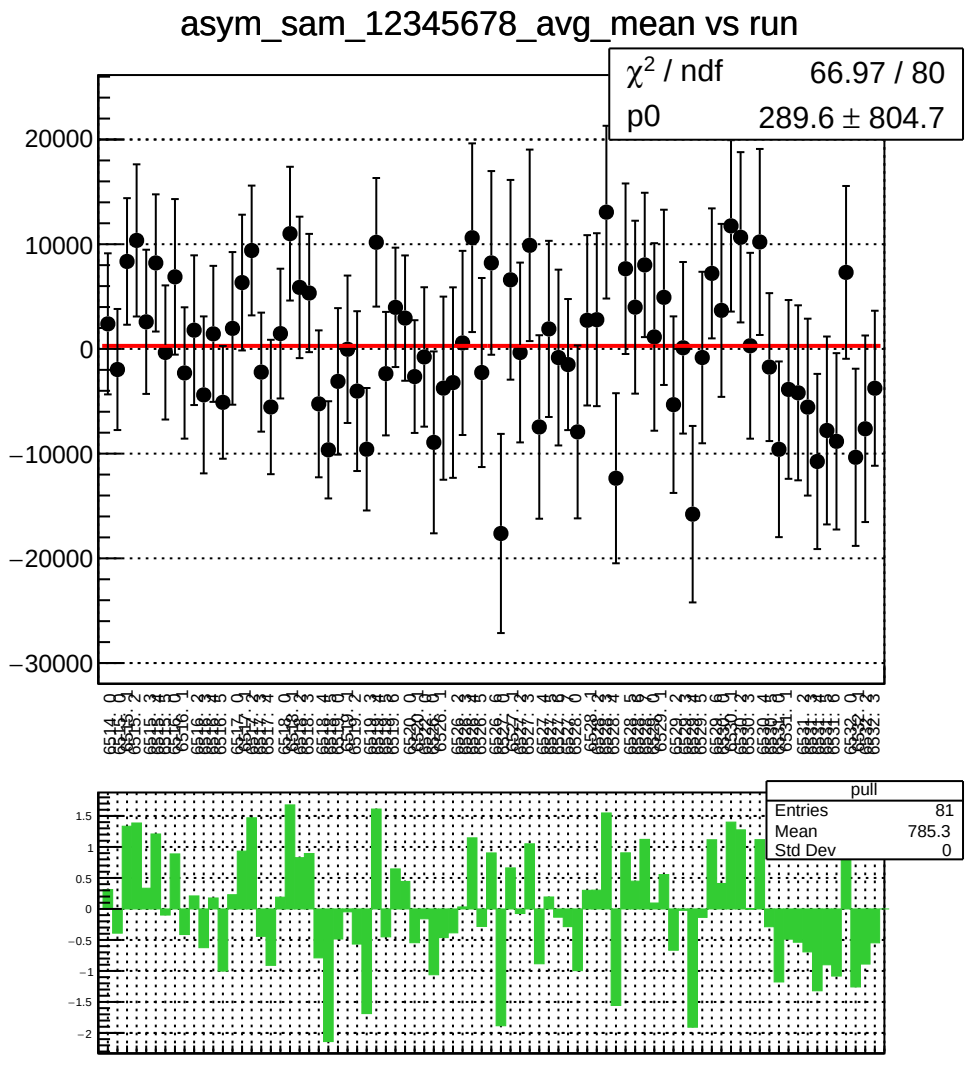

eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 102.3 / 80
p0 136.6 ± 111.2
pull
Entries 81
Mean −552.9
Std Dev 0
pull1D
Entries 81
Mean 0.008939
Std Dev 1.124

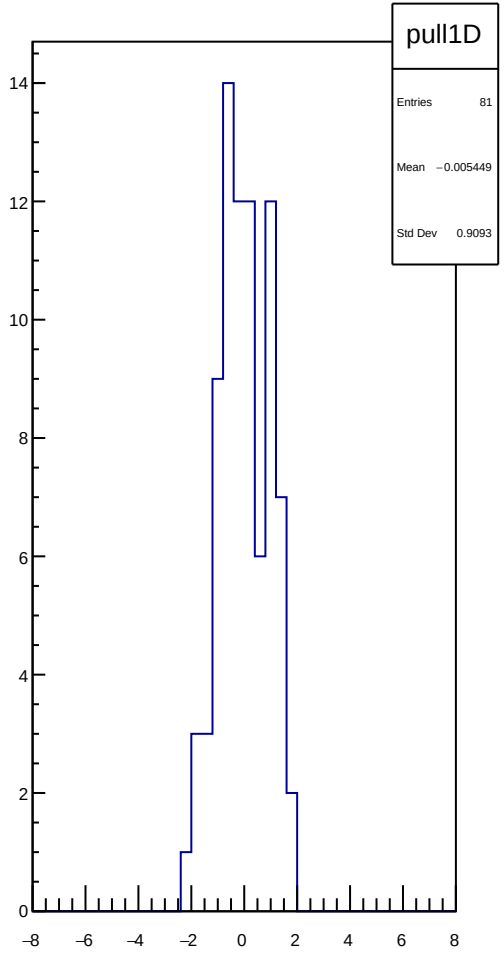

eigen_dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 5.201e+04 / 80
p0 96.55 ± 0.0786
160
140
120
100
80

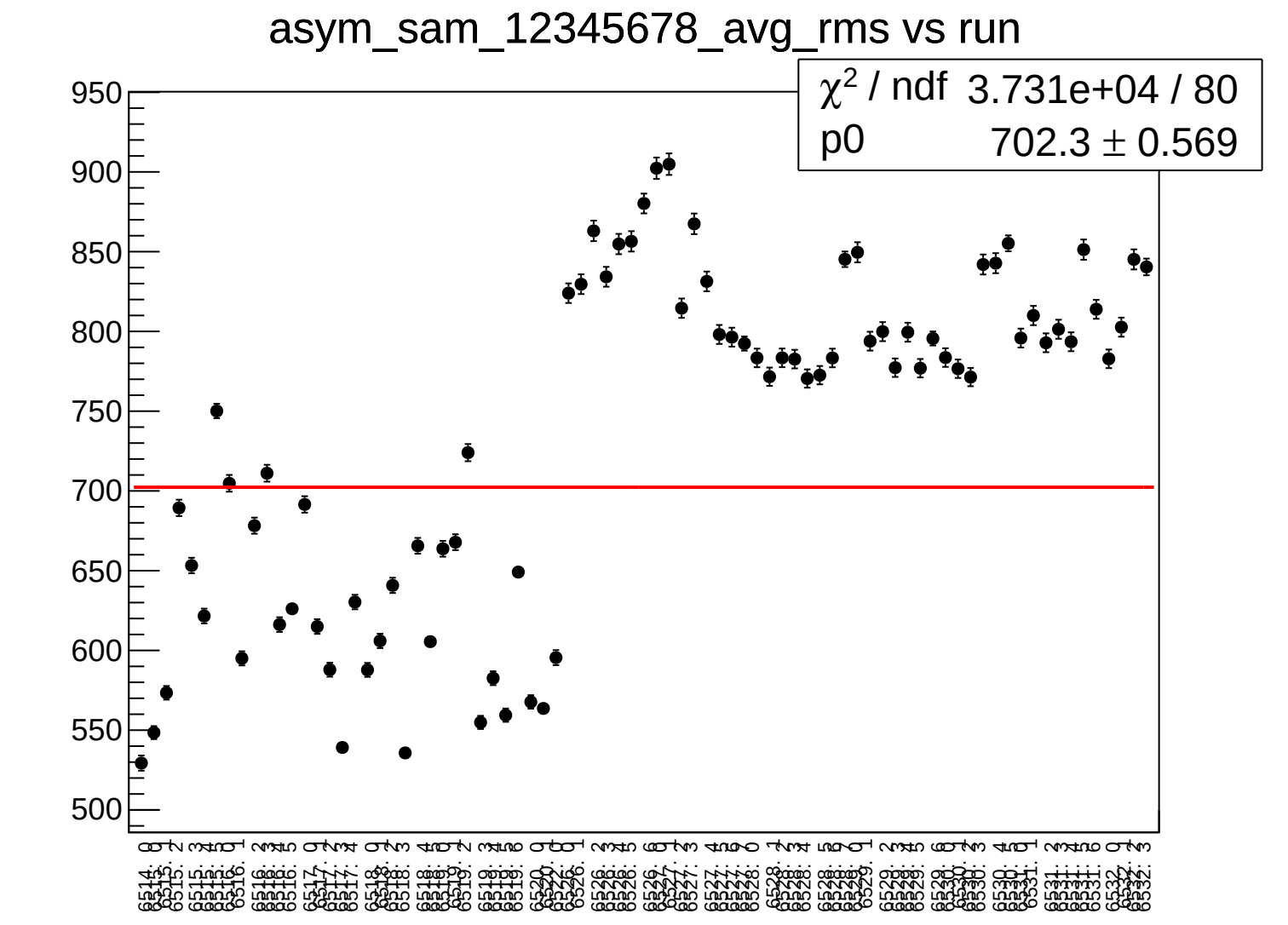

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 70.38 / 80
p0 −15.13 ± 815.9
20000
10000
0
−10000
−20000
pull
Entries 81
Mean −2792
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

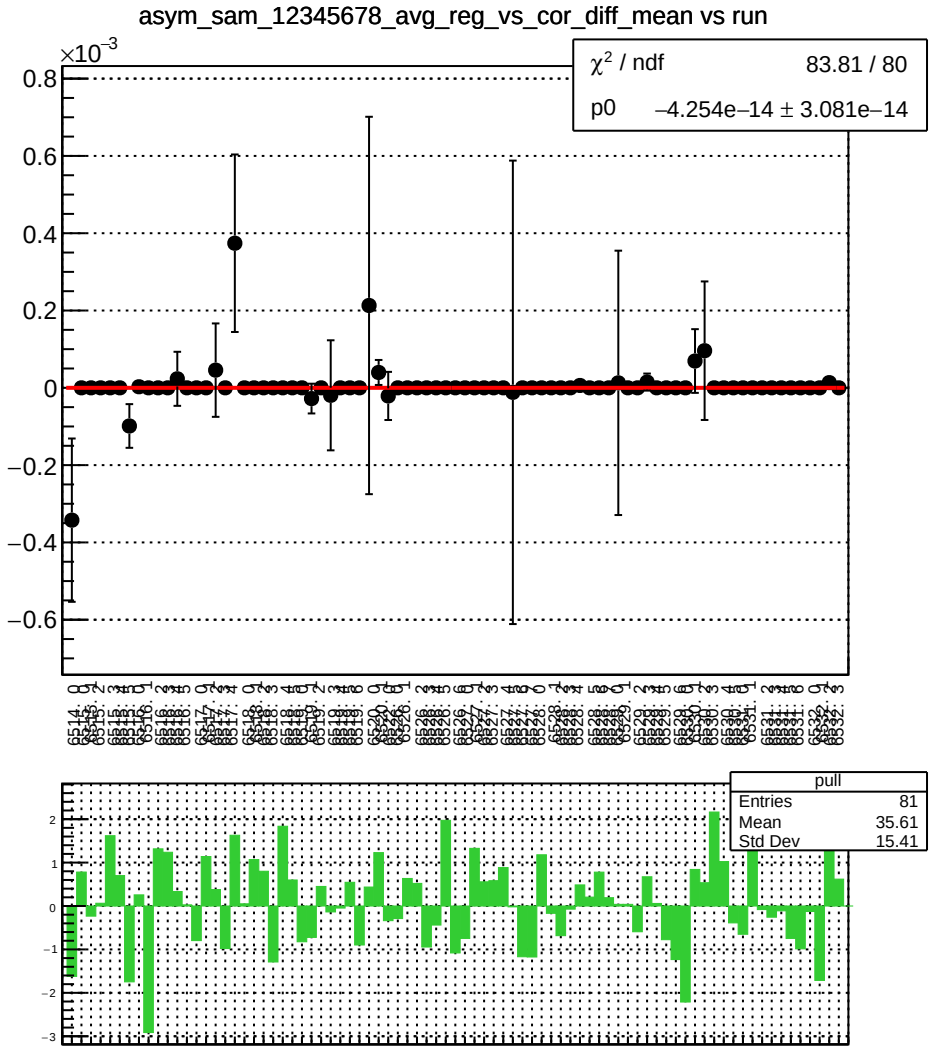

pull1D
Entries 81
Mean −0.001103
Std Dev 0.9322
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

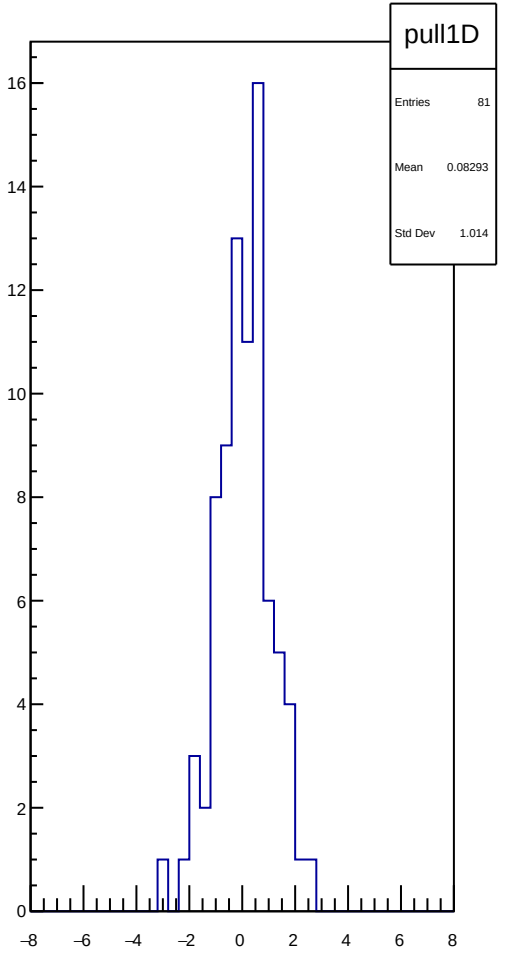

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.551e+04 / 80
p0 714.9 ± 0.5769
850
800
750
700
650
600
550

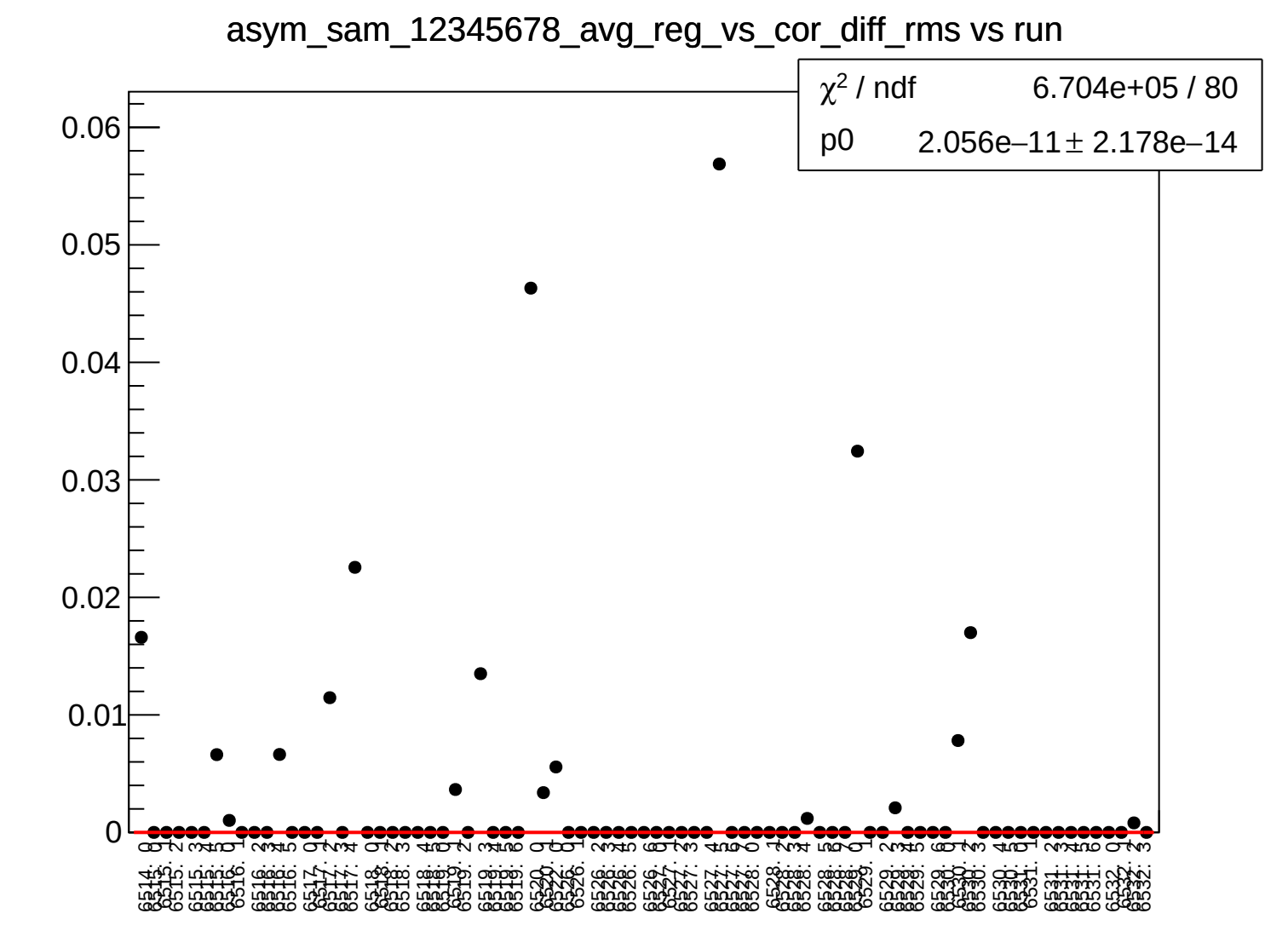

asym_sam_12345678_avg_mean vs run
χ² / ndf 66.97 / 80
p0 289.6 ± 804.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean 785.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

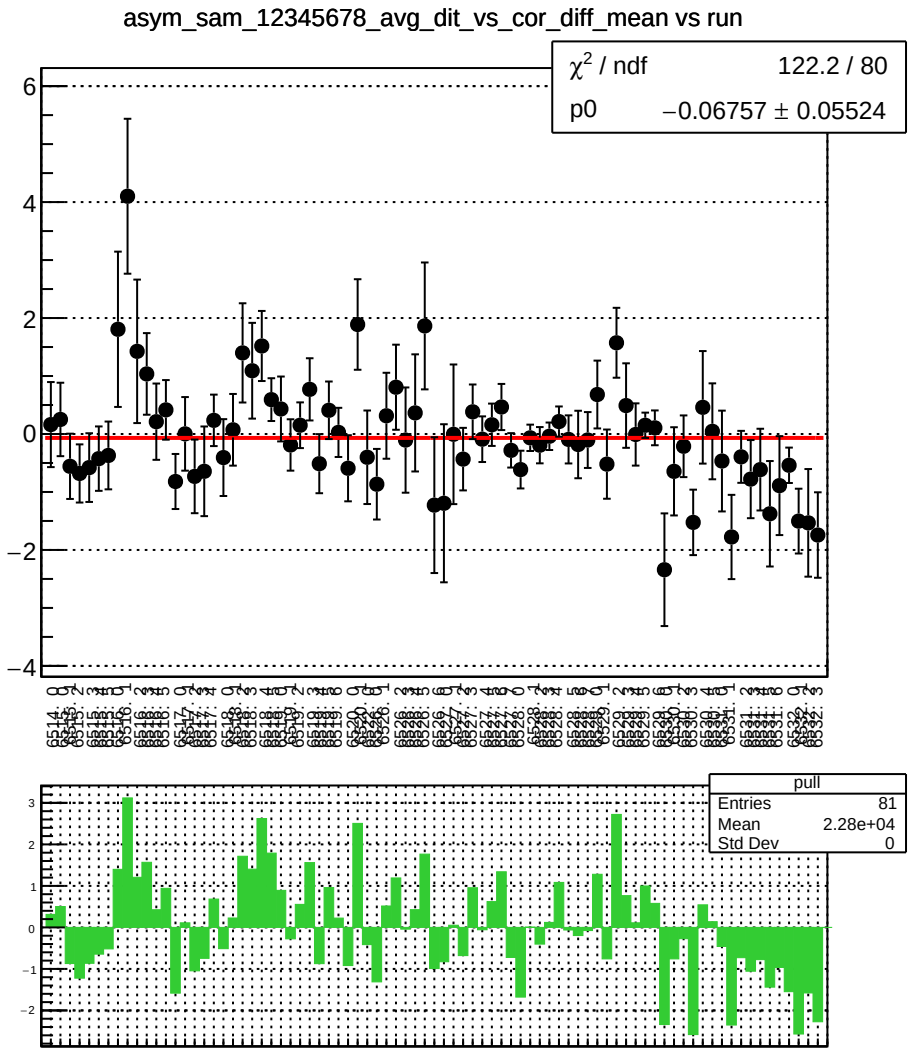

pull1D
Entries 81
Mean −0.005449
Std Dev 0.9093
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

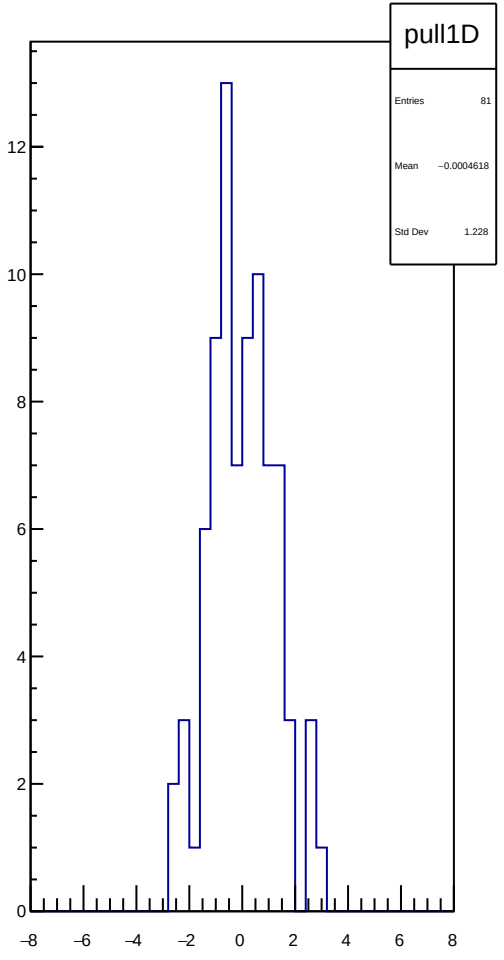

asym_sam_12345678_avg_rms vs run
χ² / ndf 3.731e+04 / 80
p0 702.3 ± 0.569
950
900
850
800
750
700
650
600
550
500

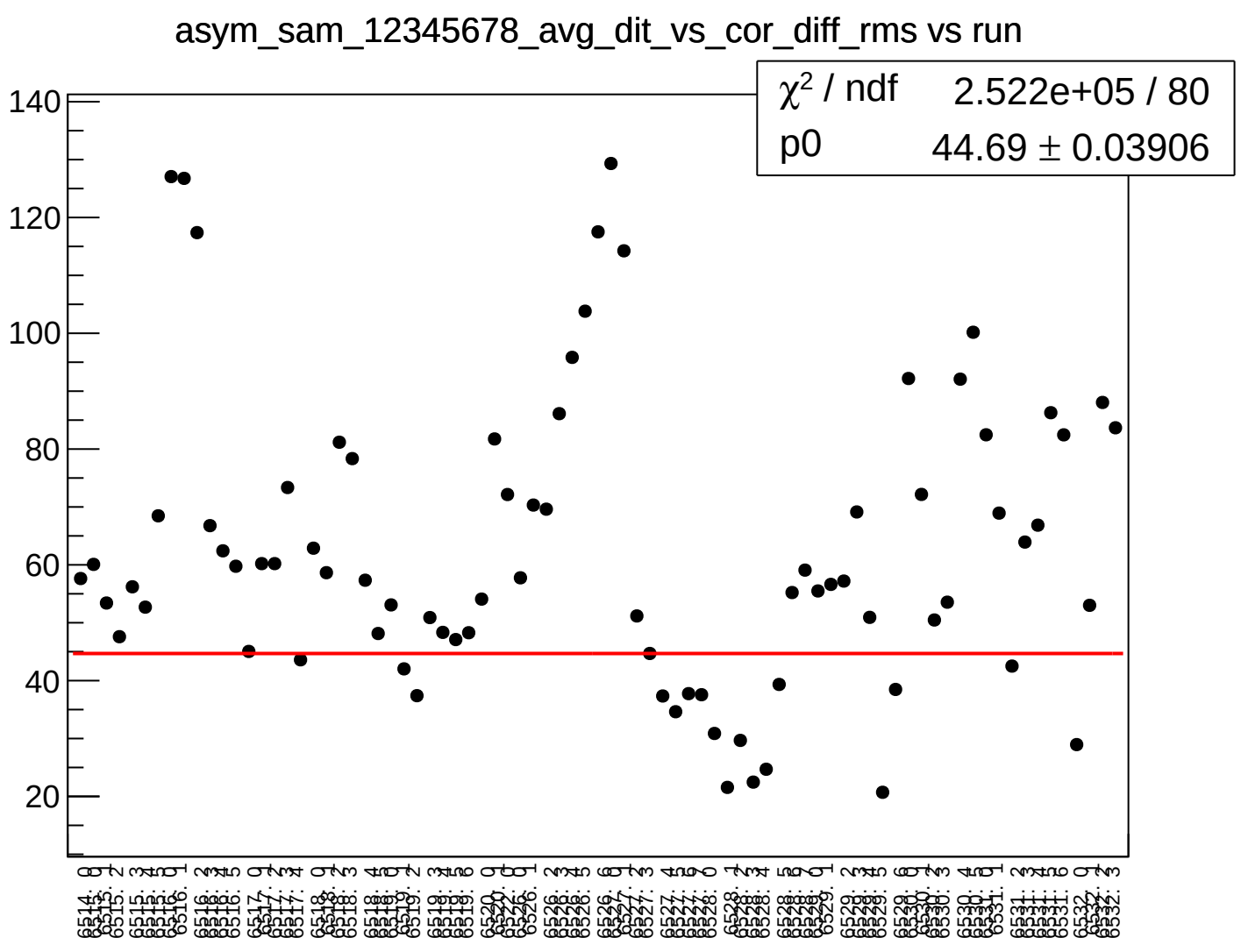

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 83.81 / 80
p0 −4.254e−14 ± 3.081e−14
pull
Entries 81
Mean 35.61
Std Dev 15.41

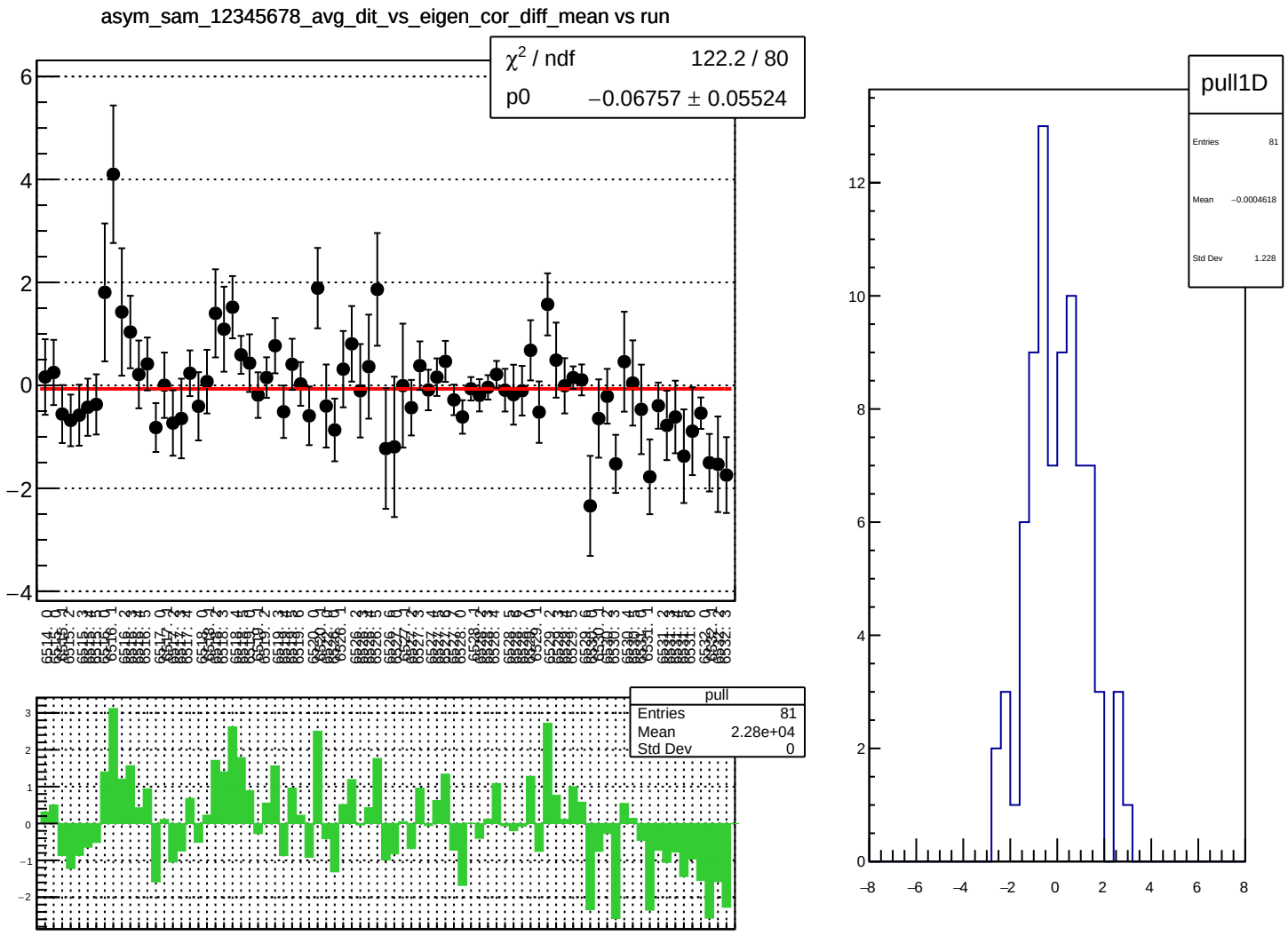

pull1D
Entries 81
Mean 0.08293
Std Dev 1.014

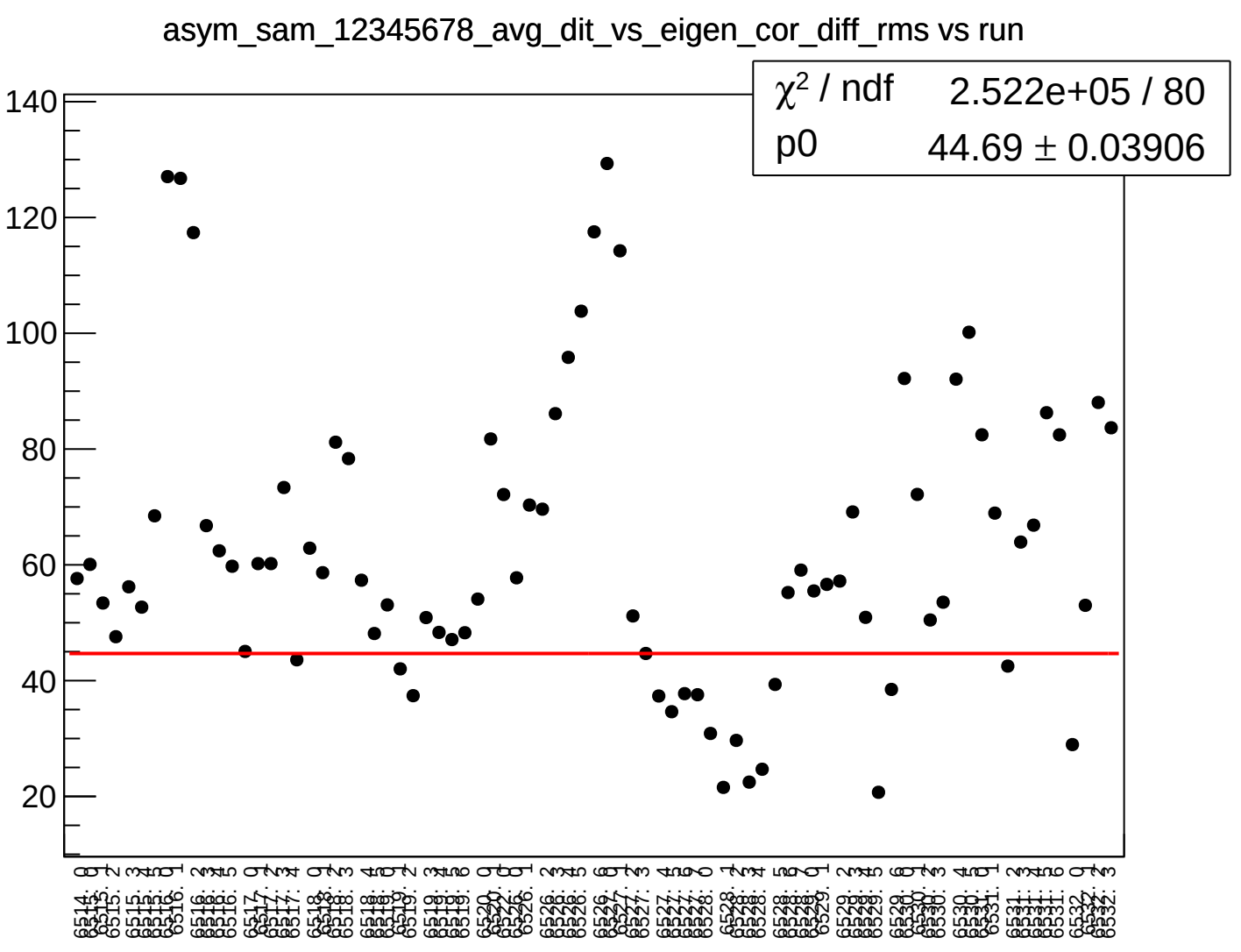

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 6.704e+05 / 80
p0 2.056e−11 ± 2.178e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

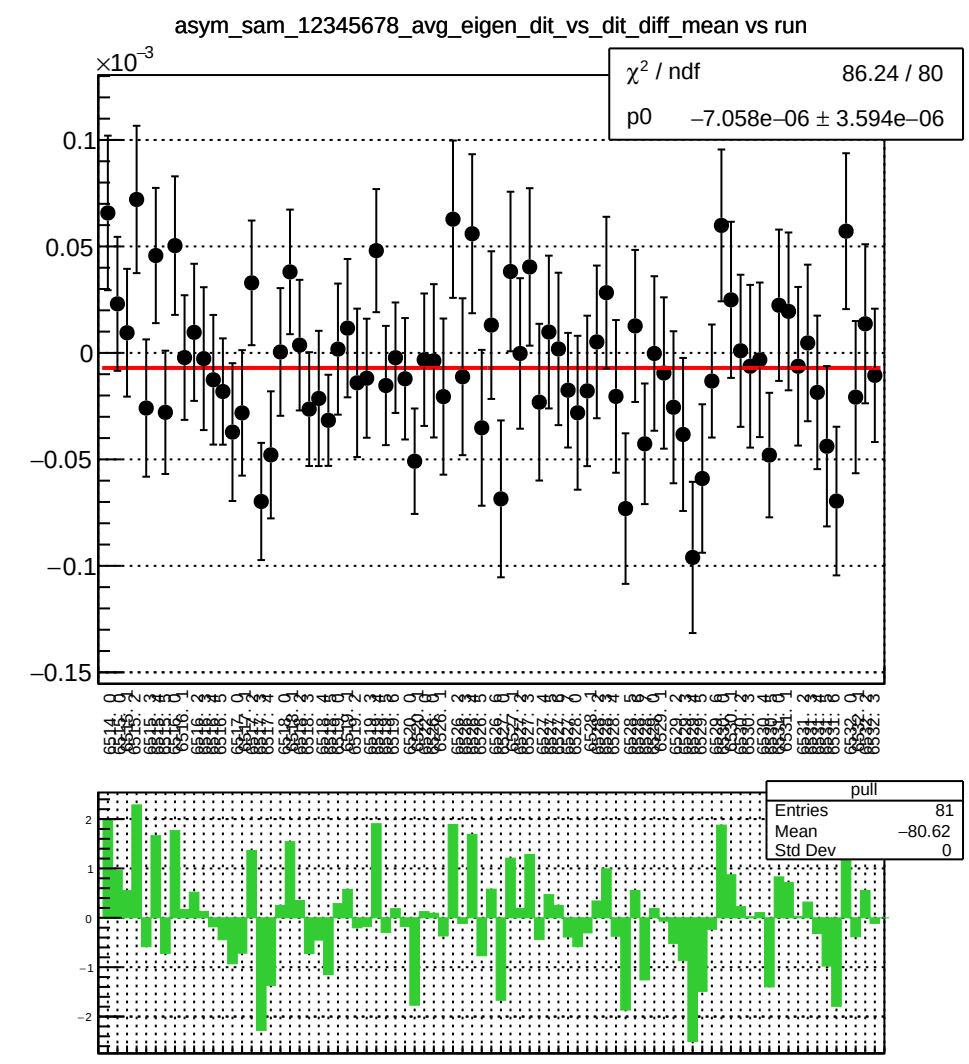

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 122.2 / 80
p0 −0.06757 ± 0.05524
pull
Entries 81
Mean 2.28e+04
Std Dev 0

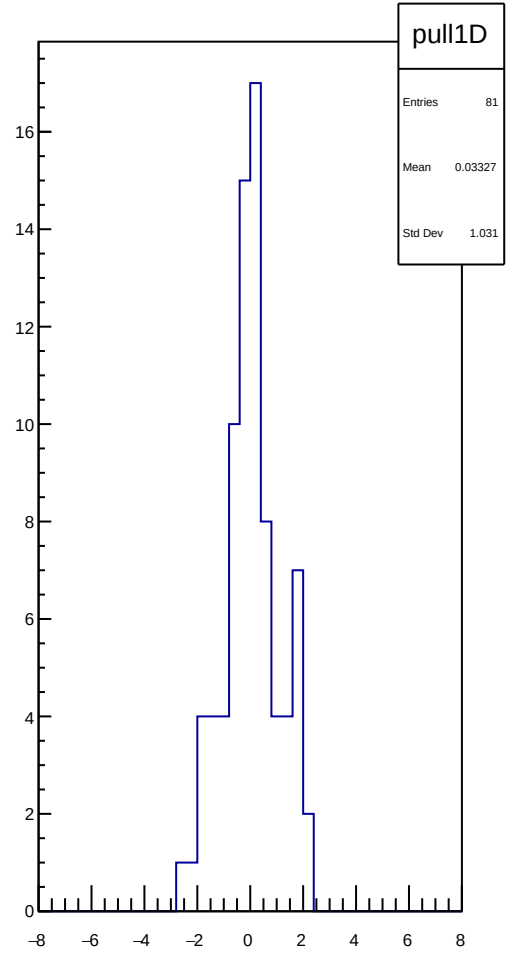

pull1D
Entries 81
Mean −0.0004618
Std Dev 1.228

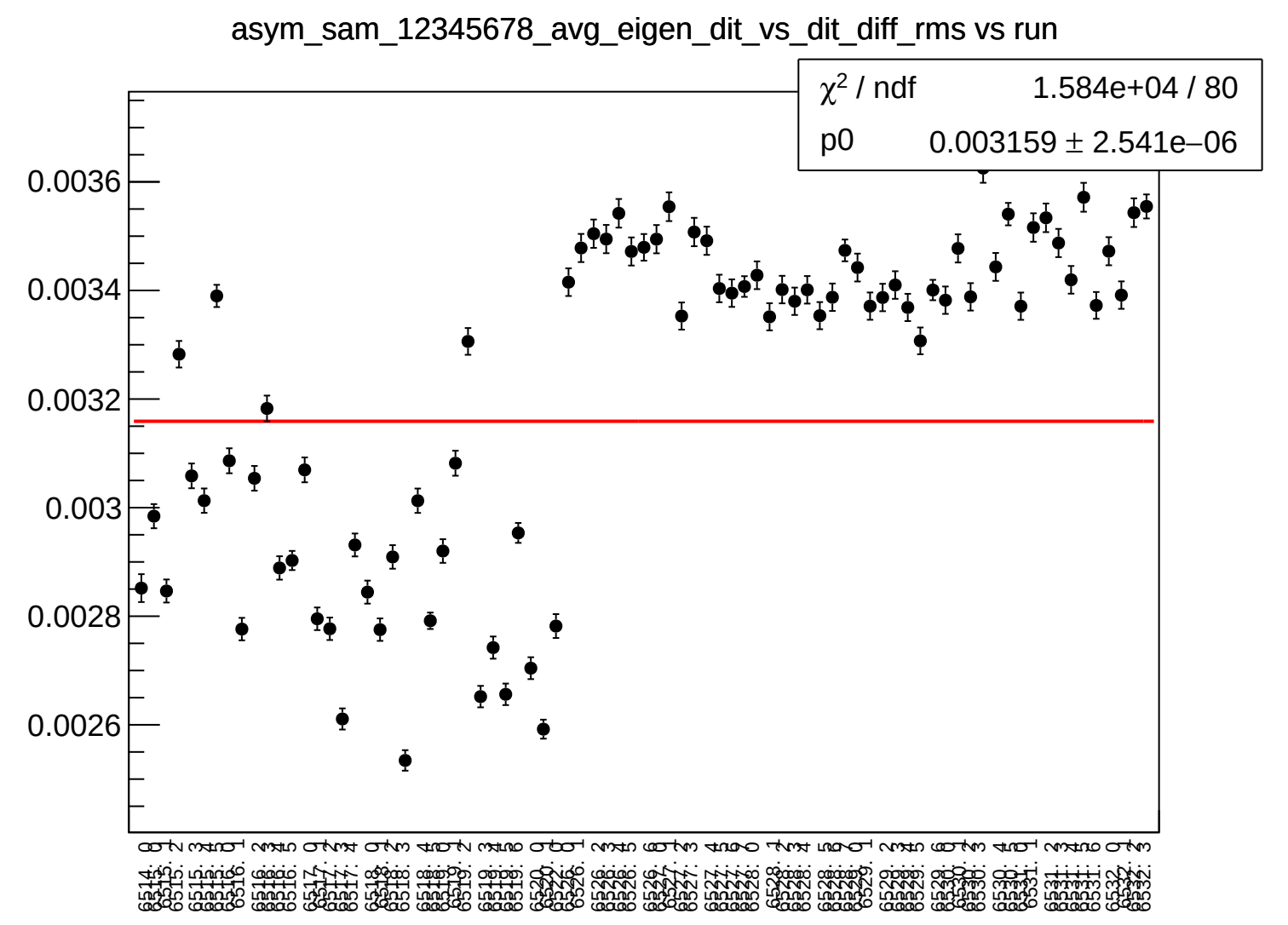

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.522e+05 / 80
p0 44.69 ± 0.03906
140
120
100
80
60
40
20

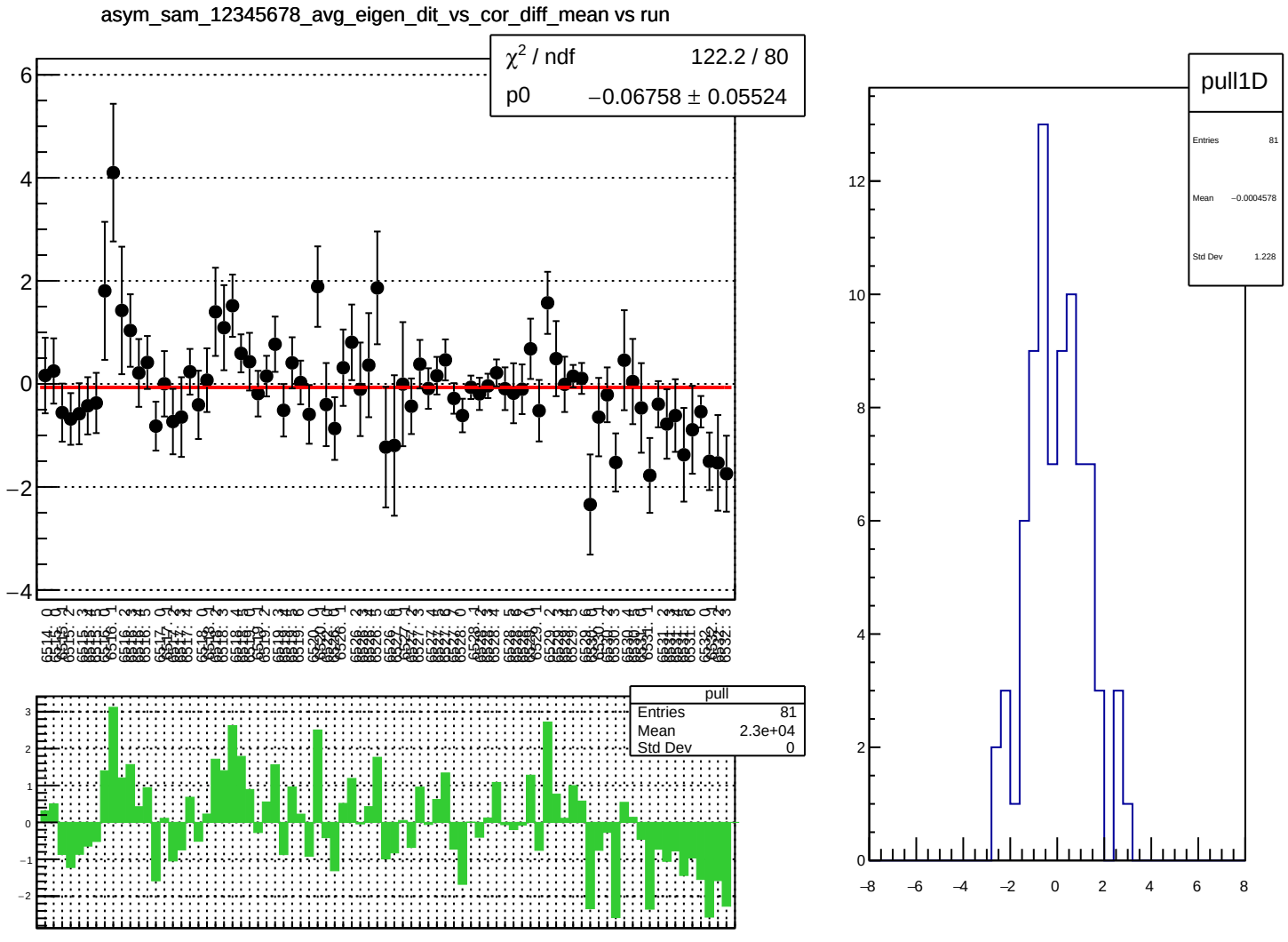

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 122.2 / 80
p0 −0.06757 ± 0.05524
pull
Entries 81
Mean 2.28e+04
Std Dev 0
pull1D
Entries 81
Mean −0.0004618
Std Dev 1.228

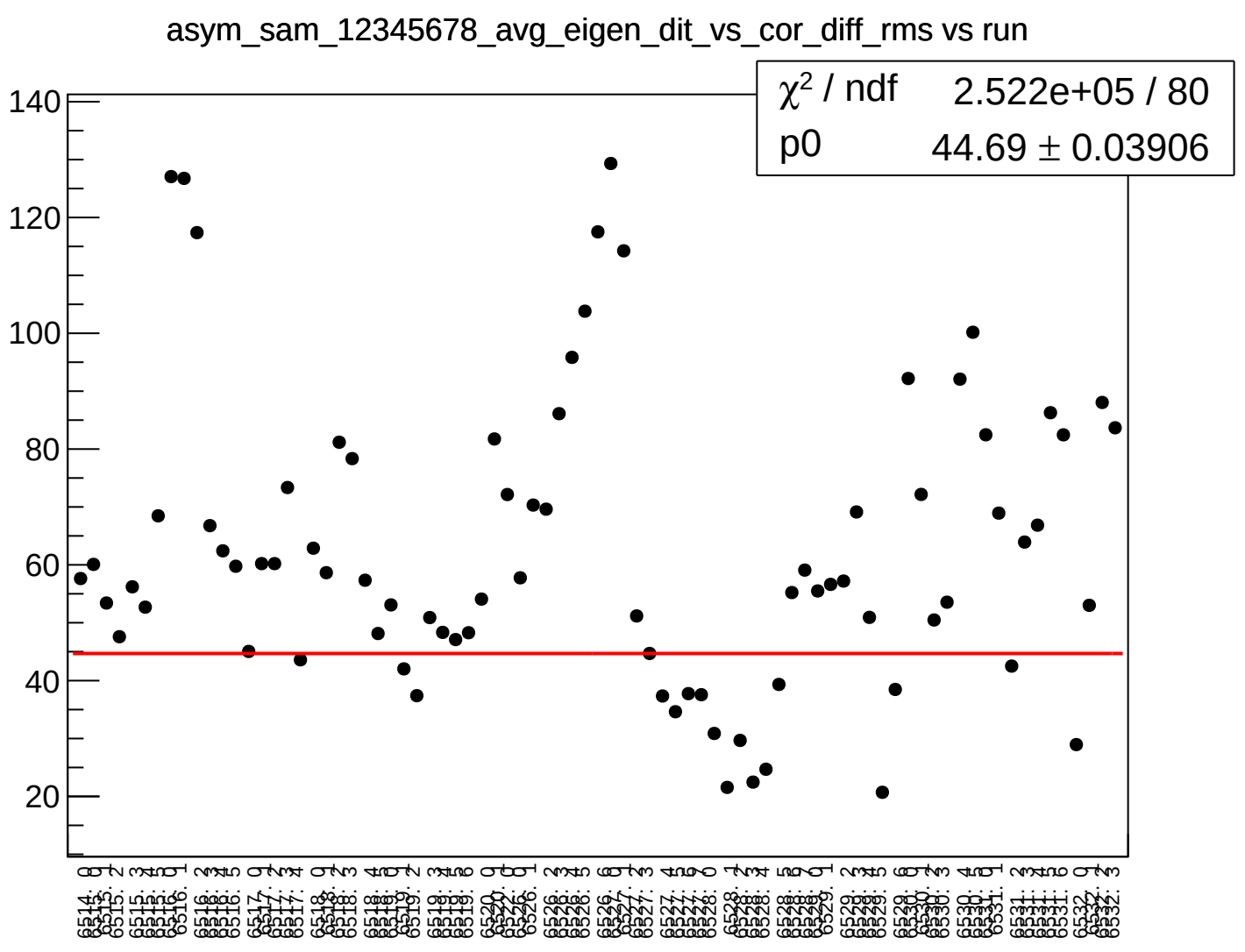

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.522e+05 / 80
p0 44.69 ± 0.03906
140
120
100
80
60
40
20

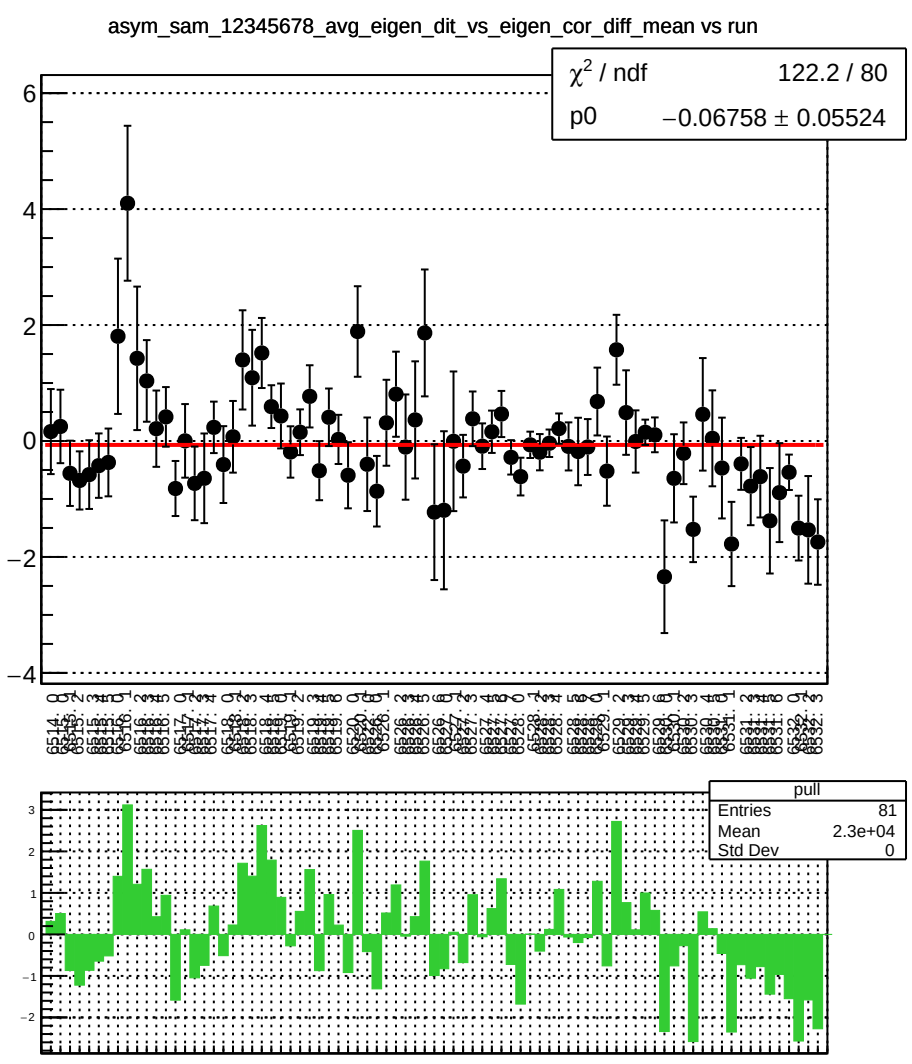

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.24 / 80
p0 −7.058e−06 ± 3.594e−06
pull
Entries 81
Mean −80.62
Std Dev 0

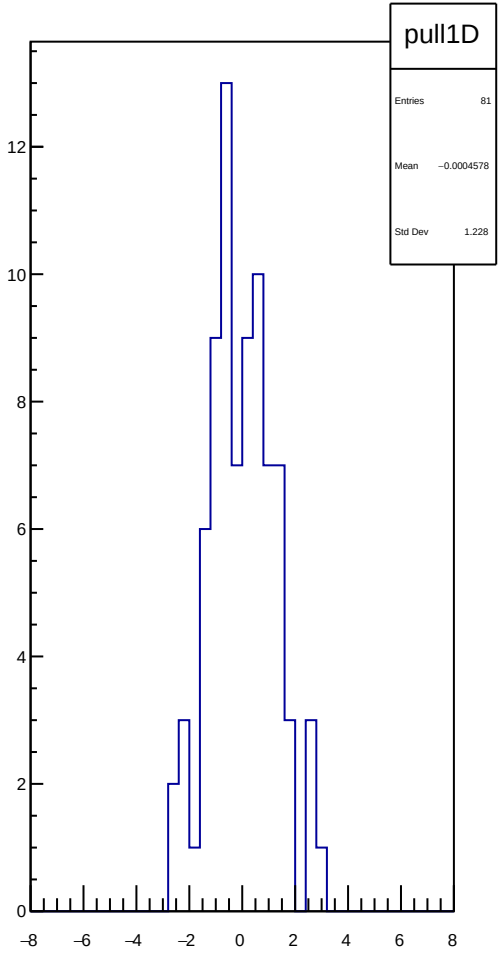

pull1D
Entries 81
Mean 0.03327
Std Dev 1.031

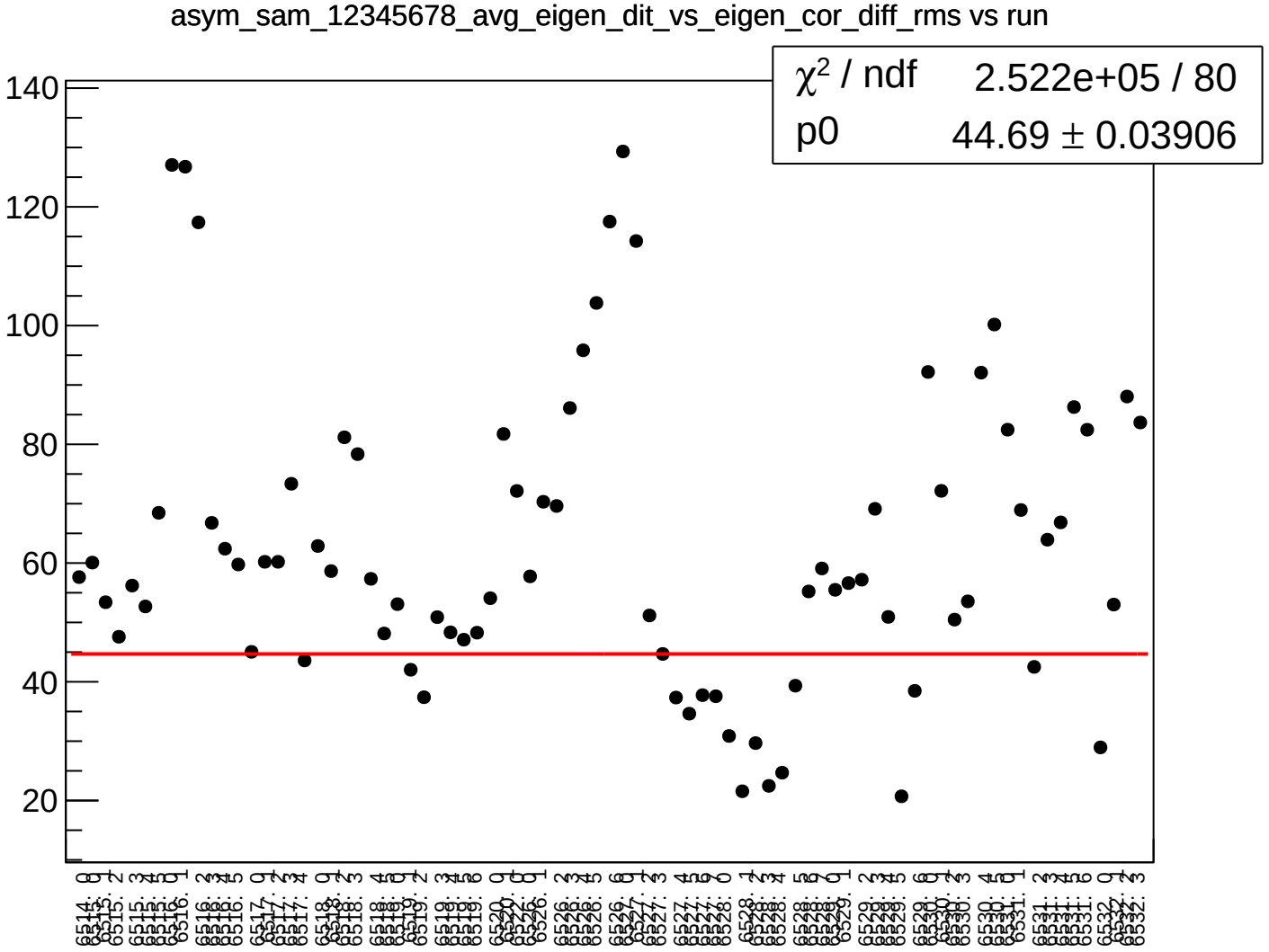

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.584e+04 / 80
p0 0.003159 ± 2.541e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

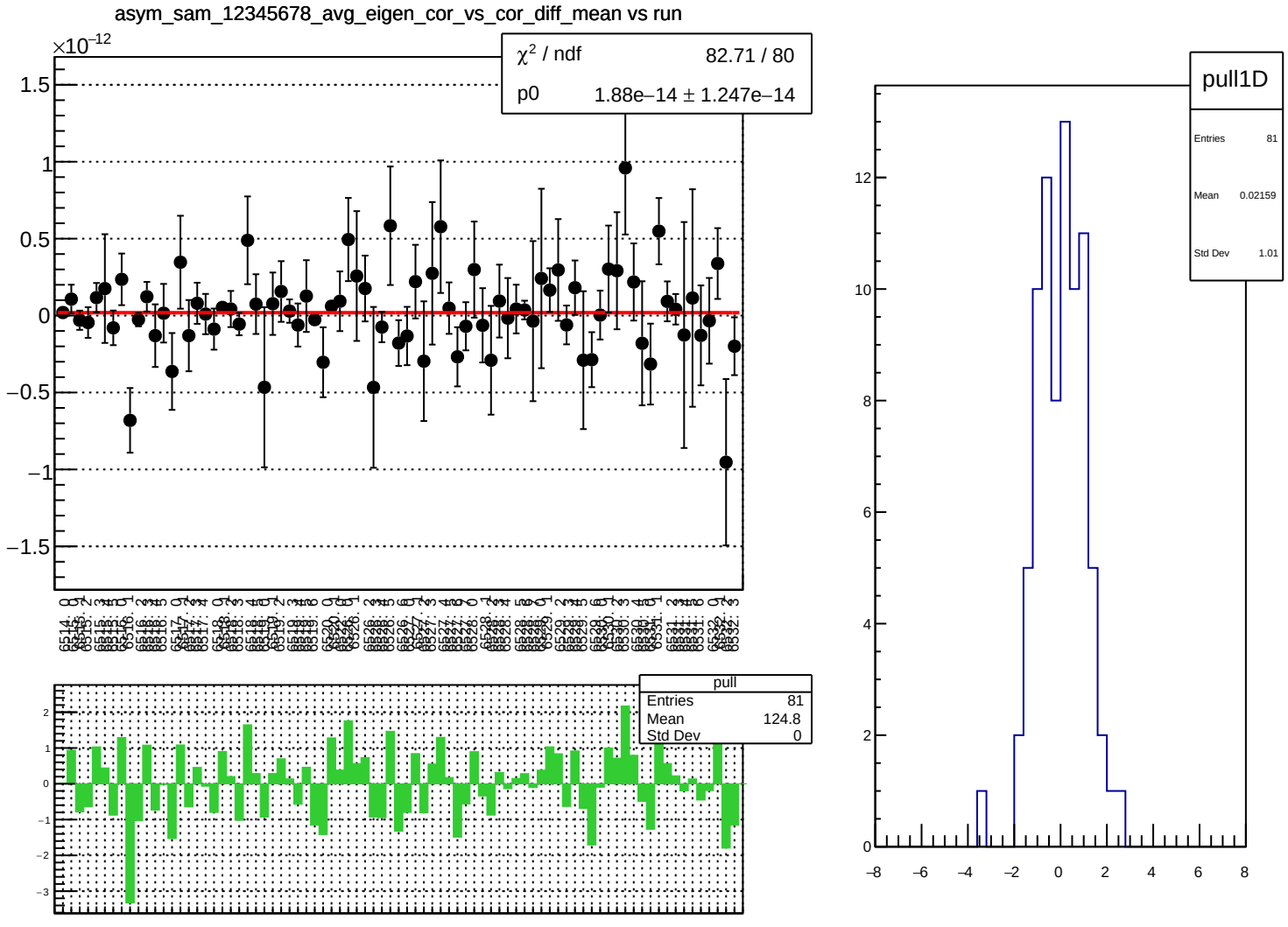

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 122.2 / 80
p0 −0.06758 ± 0.05524
pull
Entries 81
Mean 2.3e+04
Std Dev 0
pull1D
Entries 81
Mean −0.0004578
Std Dev 1.228

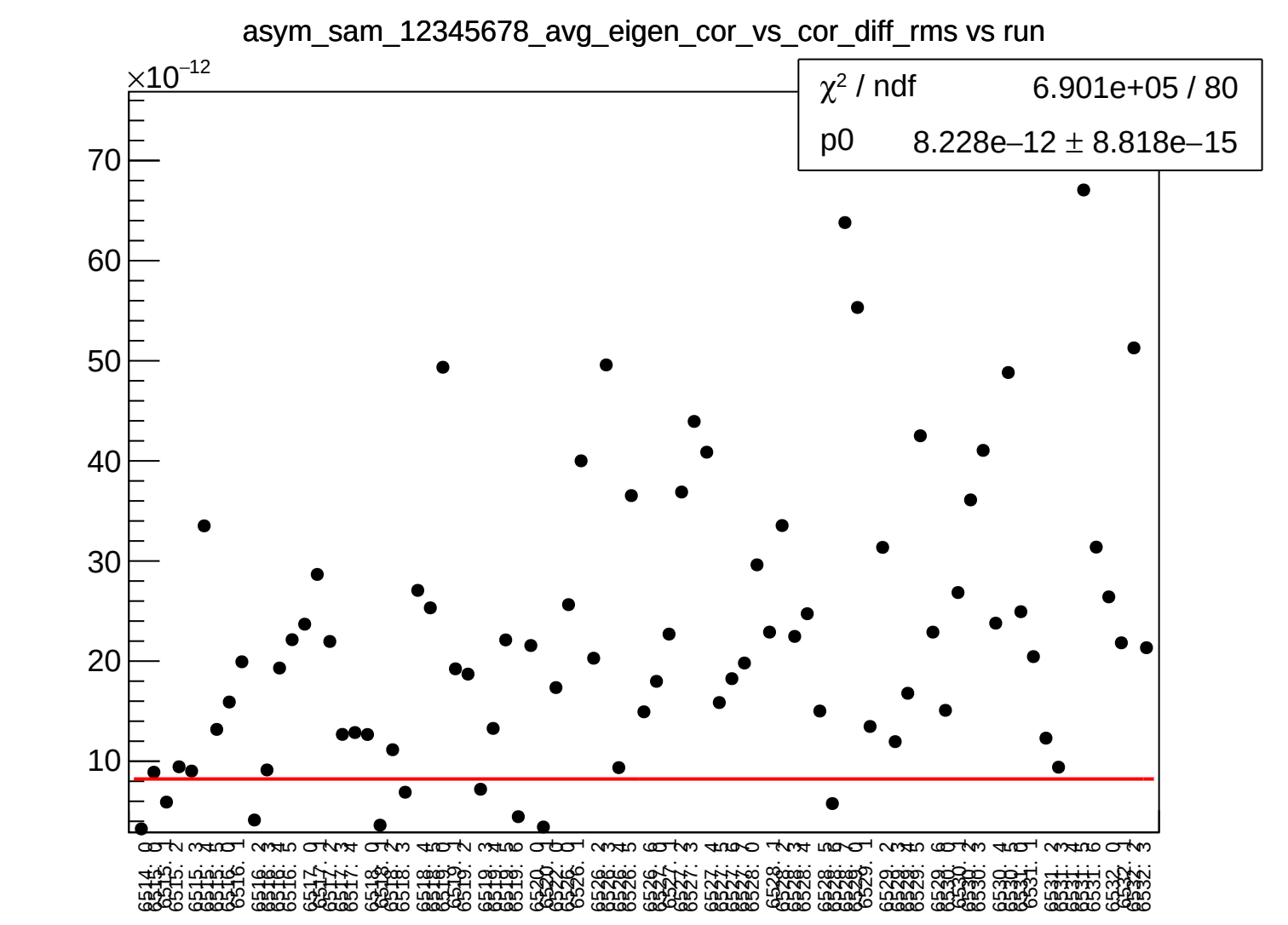

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.522e+05 / 80
p0 44.69 ± 0.03906
140
120
100
80
60
40
20

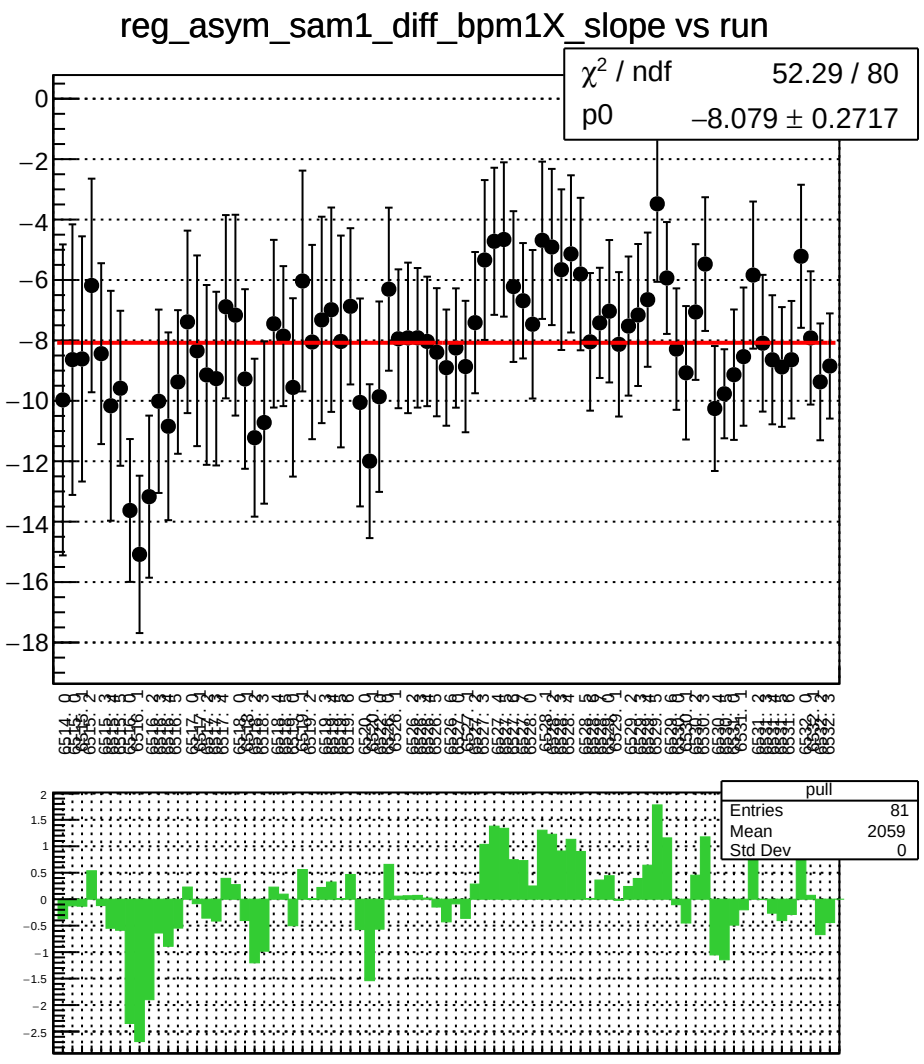

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 122.2 / 80
p0 −0.06758 ± 0.05524
pull
Entries 81
Mean 2.3e+04
Std Dev 0

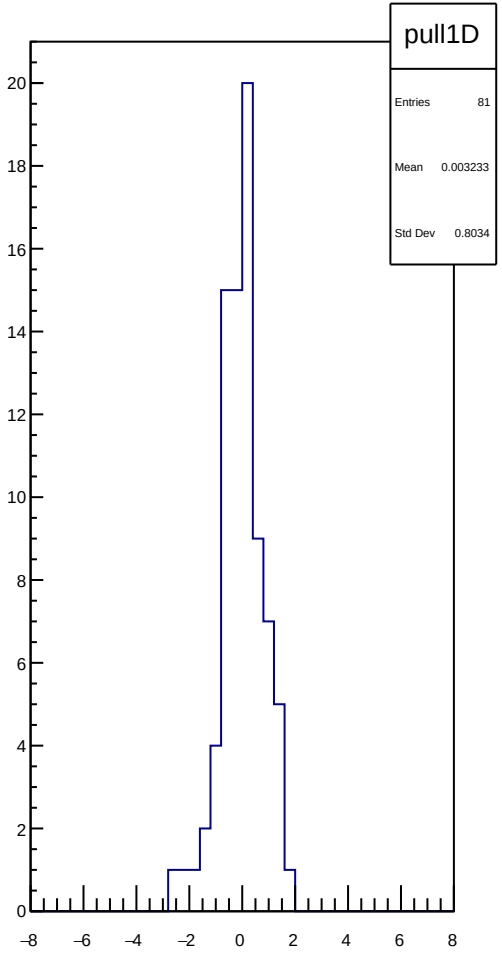

pull1D
Entries 81
Mean −0.0004578
Std Dev 1.228

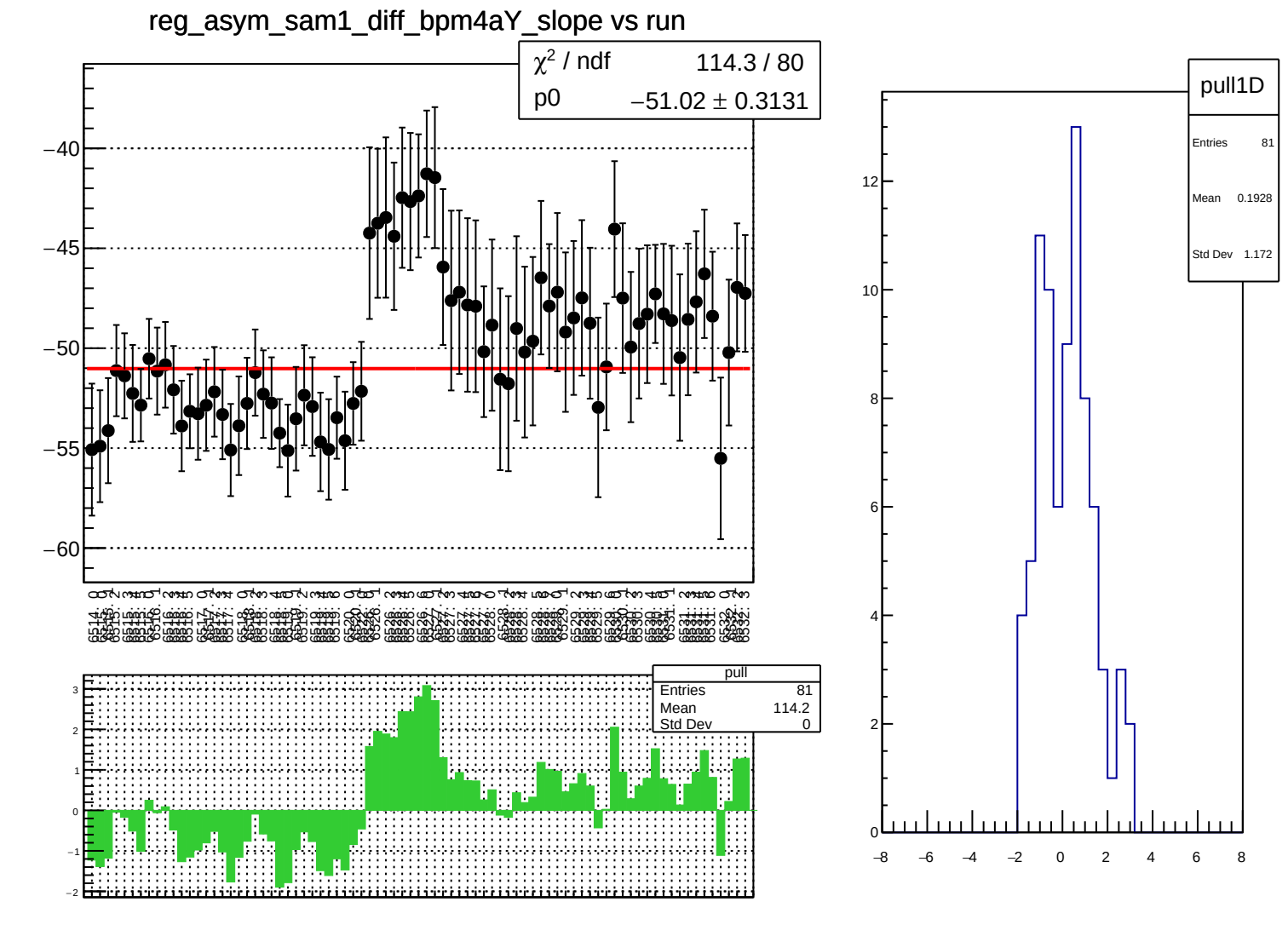

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.522e+05 / 80
p0 44.69 ± 0.03906
140
120
100
80
60
40
20

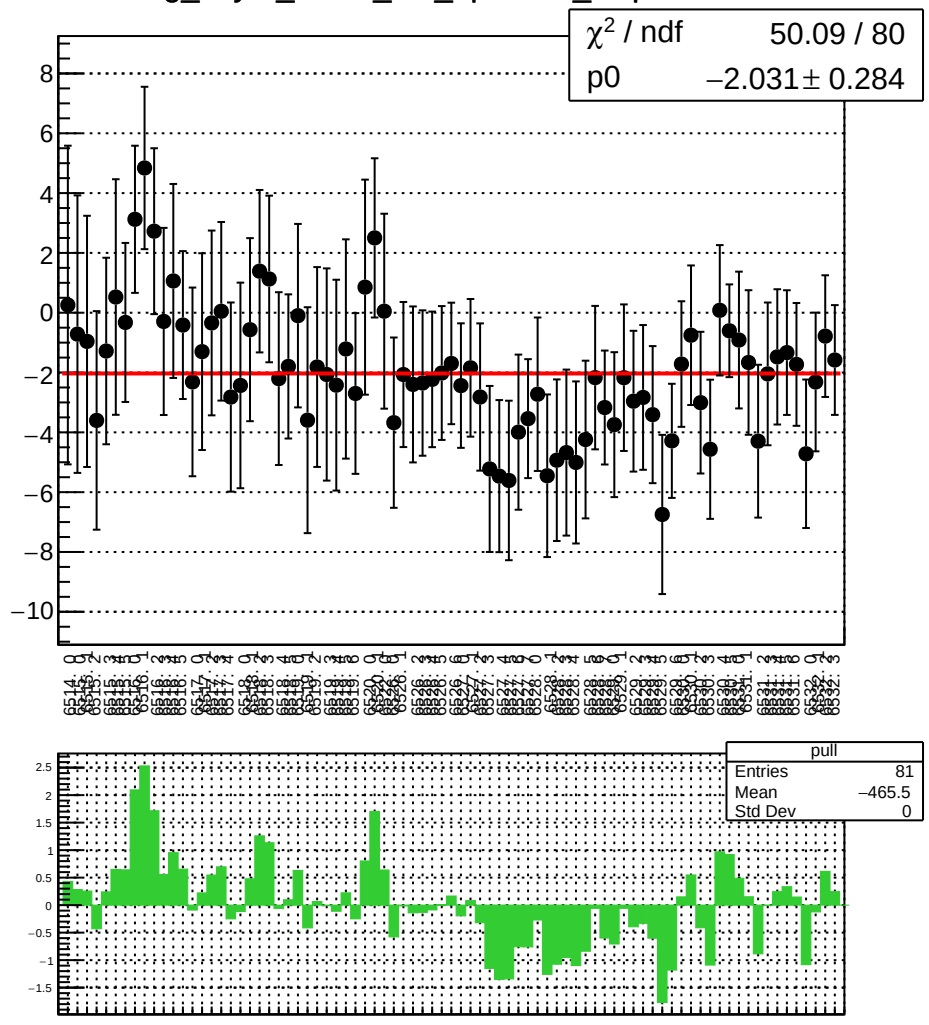

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.71 / 80
p0 1.88e−14 ± 1.247e−14
1.5
1
0.5
0
−0.5
−1
−1.5
pull
Entries 81
Mean 124.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 81
Mean 0.02159
Std Dev 1.01
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

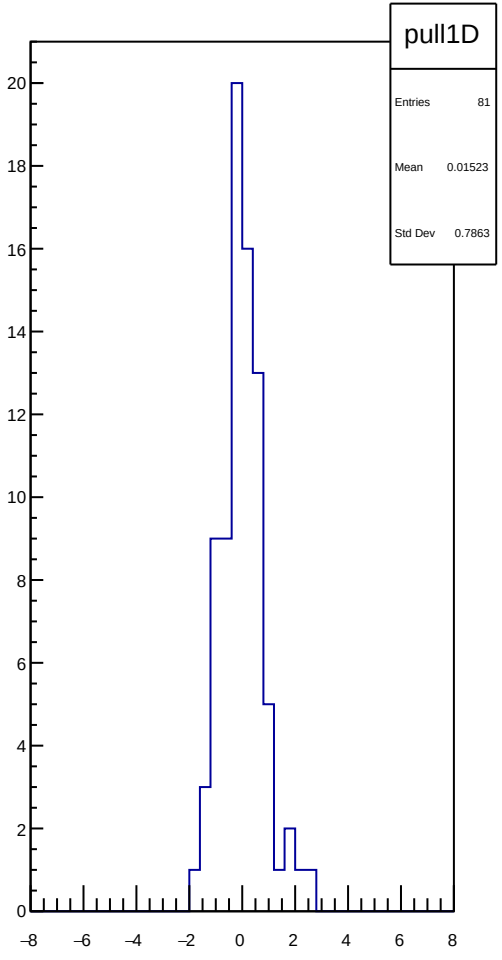

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.901e+05 / 80
p0 8.228e−12 ± 8.818e−15
70
60
50
40
30
20
10

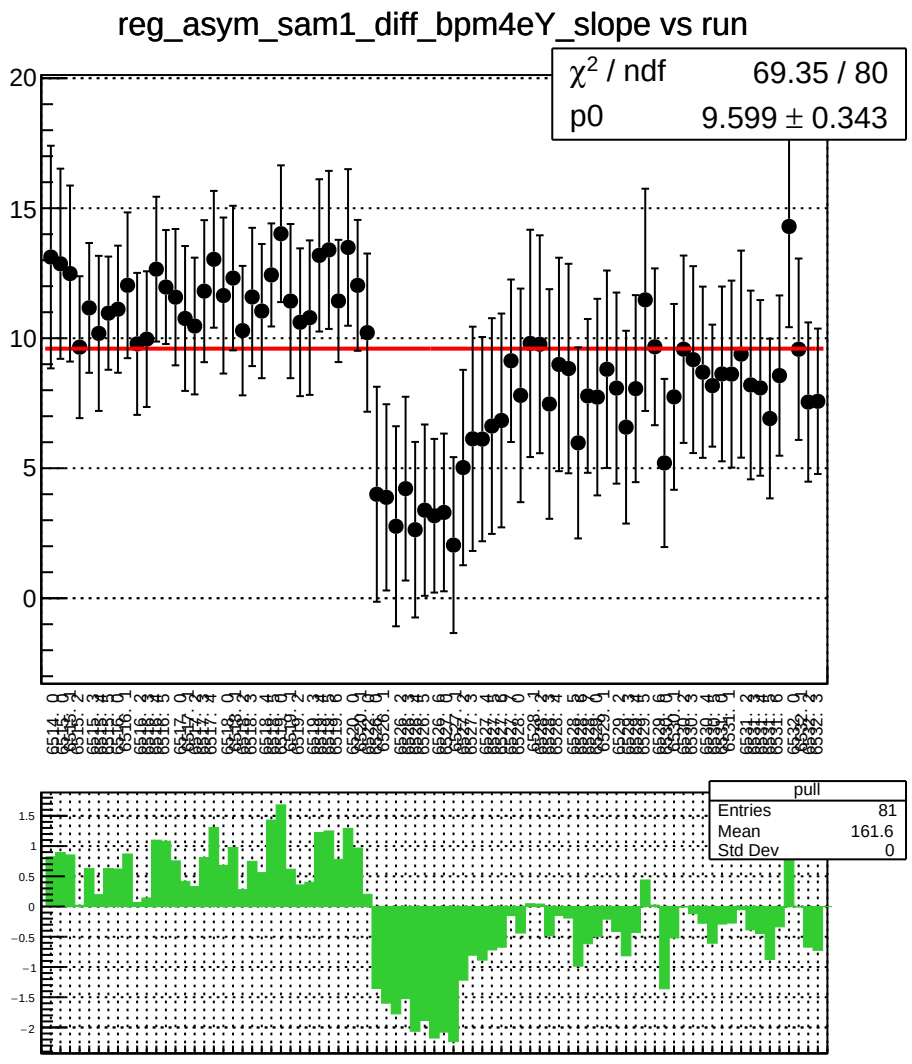

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 52.29 / 80
p0 −8.079 ± 0.2717
pull
Entries 81
Mean 2059
Std Dev 0

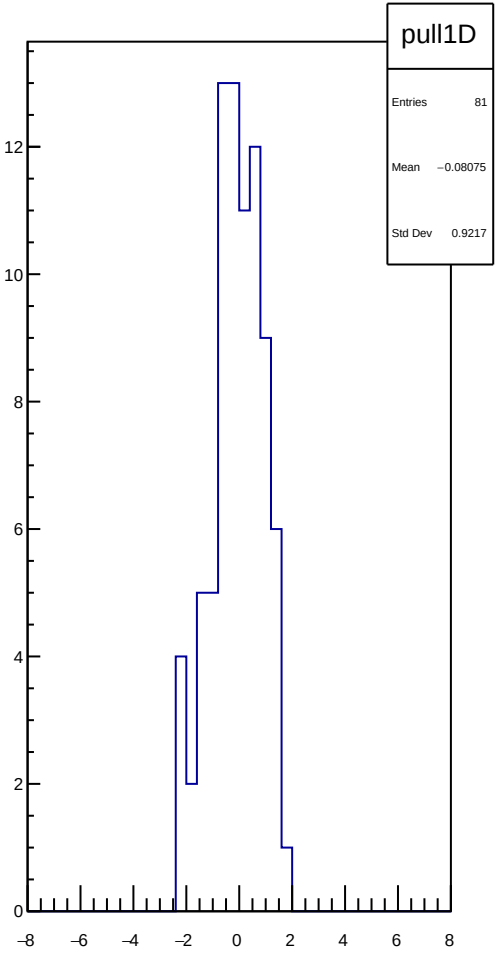

pull1D
Entries 81
Mean 0.003233
Std Dev 0.8034

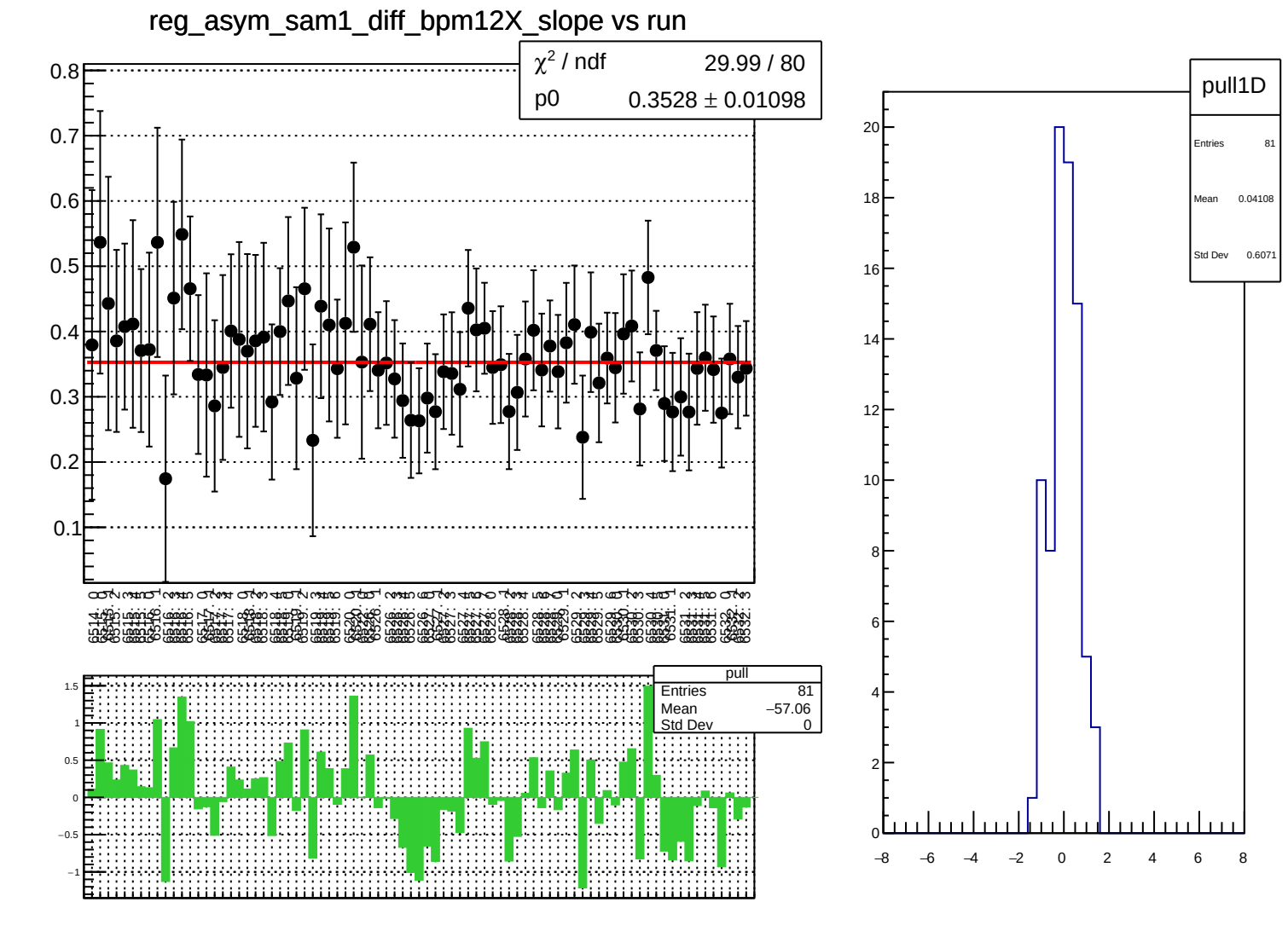

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 114.3 / 80
p0 −51.02 ± 0.3131
pull
Entries 81
Mean 114.2
Std Dev 0
pull1D
Entries 81
Mean 0.1928
Std Dev 1.172

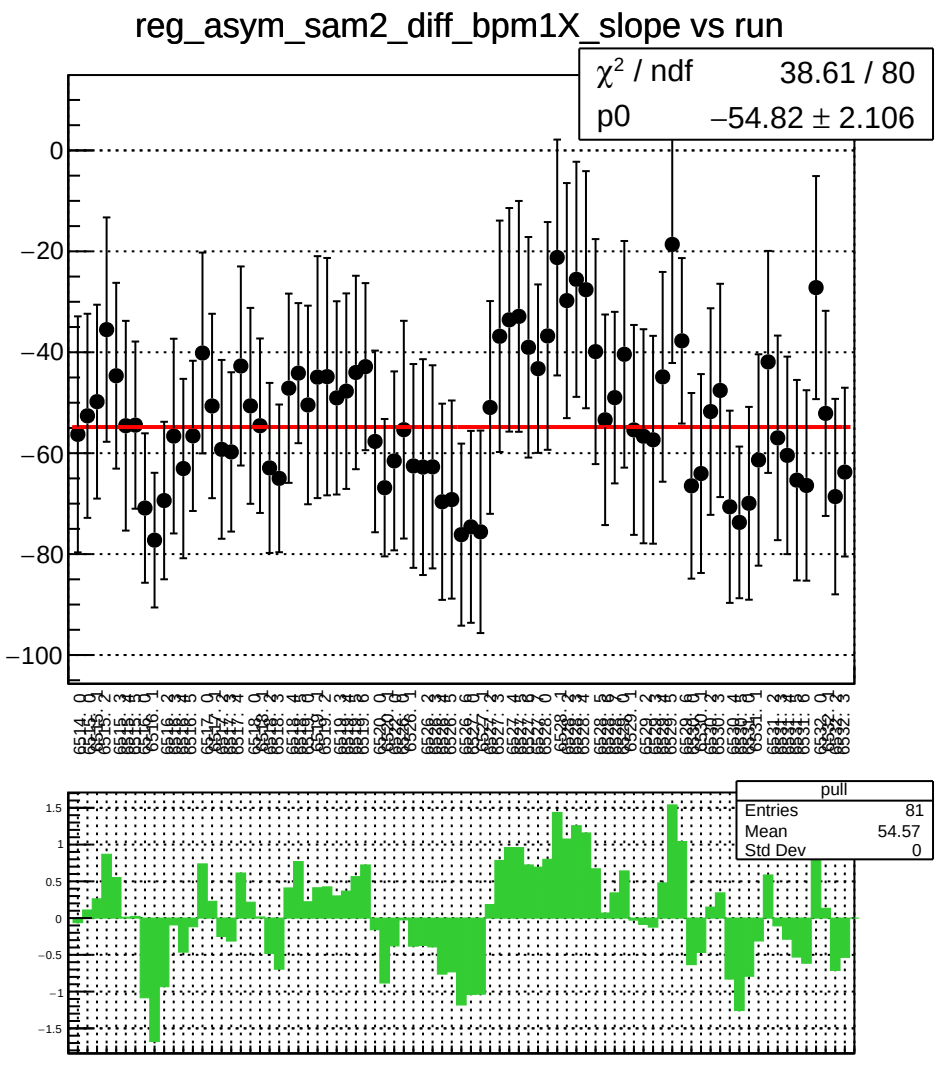

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 50.09 / 80
p0 −2.031 ± 0.284
pull
Entries 81
Mean −465.5
Std Dev 0

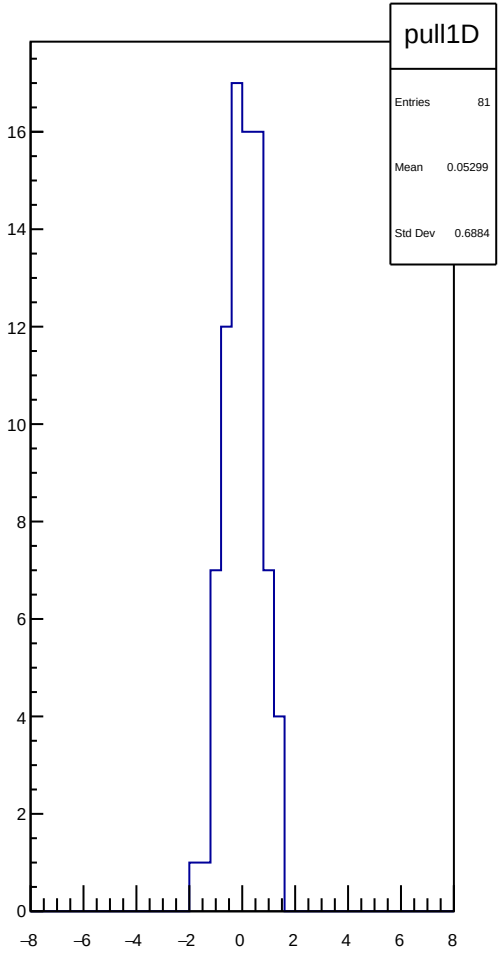

pull1D
Entries 81
Mean 0.01523
Std Dev 0.7863

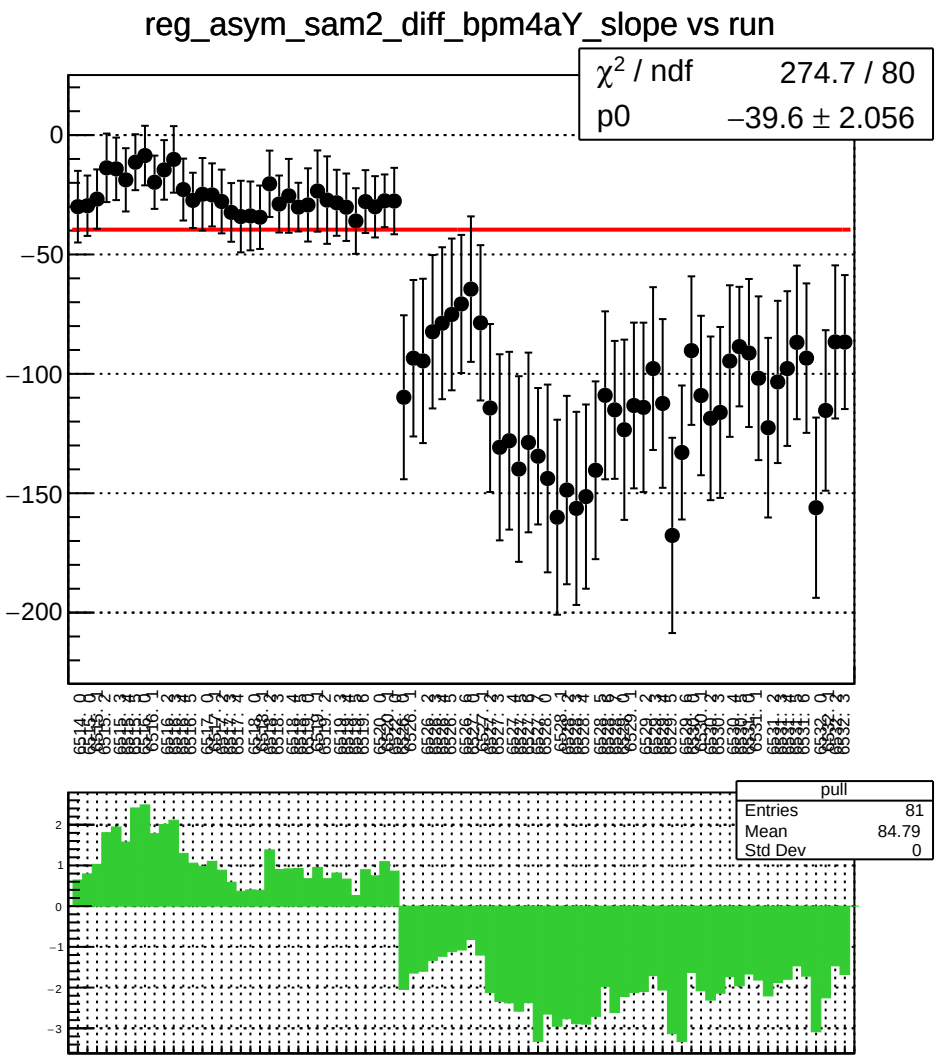

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 69.35 / 80
p0 9.599 ± 0.343
pull
Entries 81
Mean 161.6
Std Dev 0

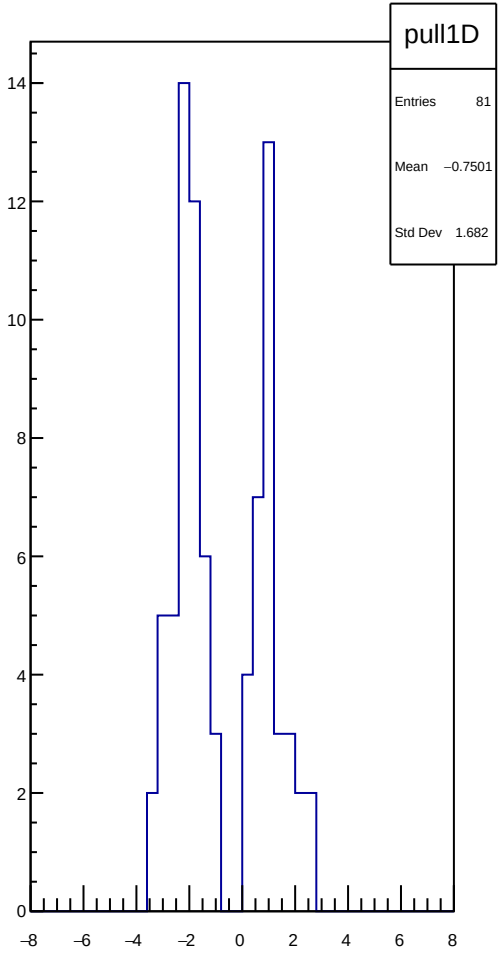

pull1D
Entries 81
Mean −0.08075
Std Dev 0.9217

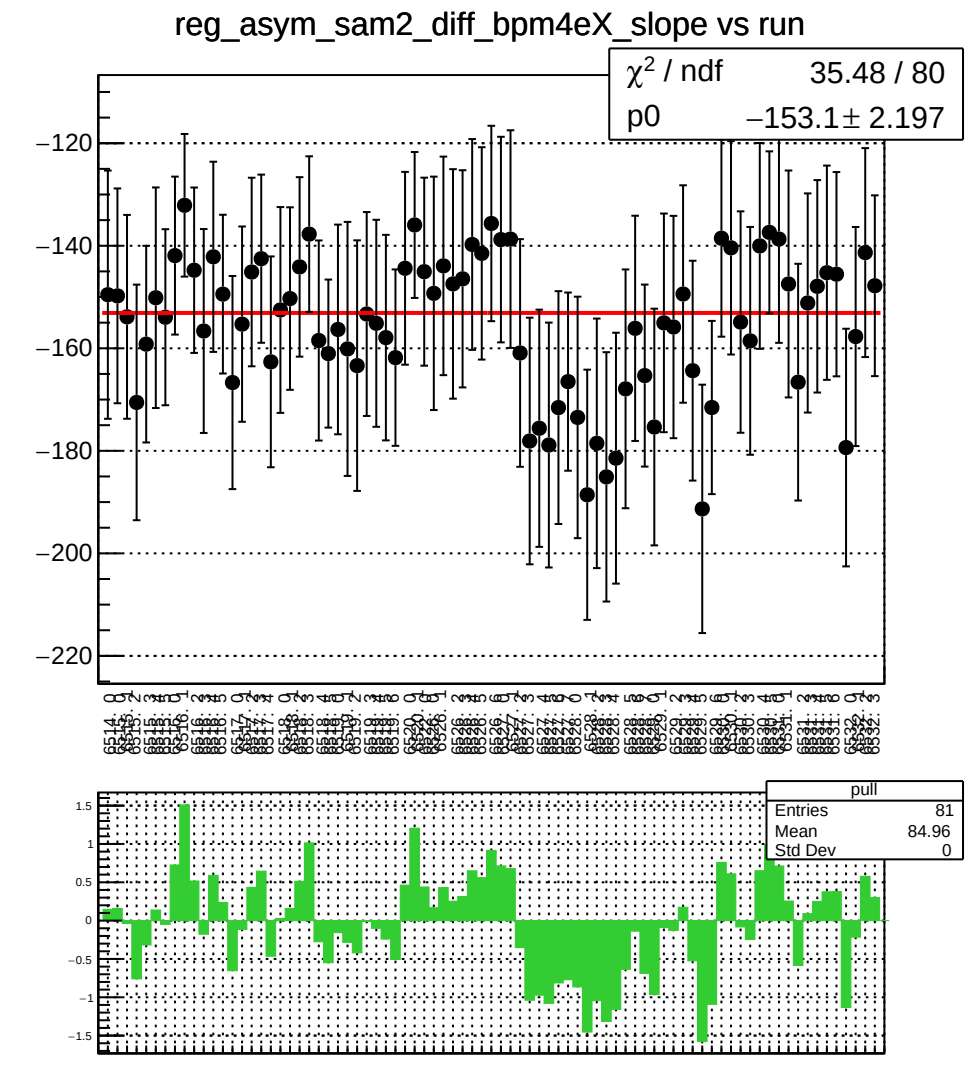

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 29.99 / 80
p0 0.3528 ± 0.01098
pull
Entries 81
Mean −57.06
Std Dev 0
pull1D
Entries 81
Mean 0.04108
Std Dev 0.6071

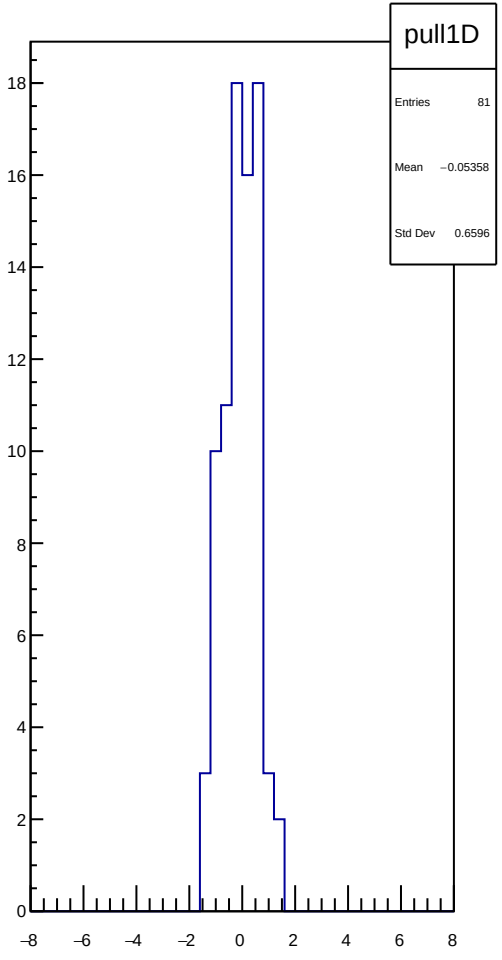

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 38.61 / 80
p0 −54.82 ± 2.106
pull
Entries 81
Mean 54.57
Std Dev 0

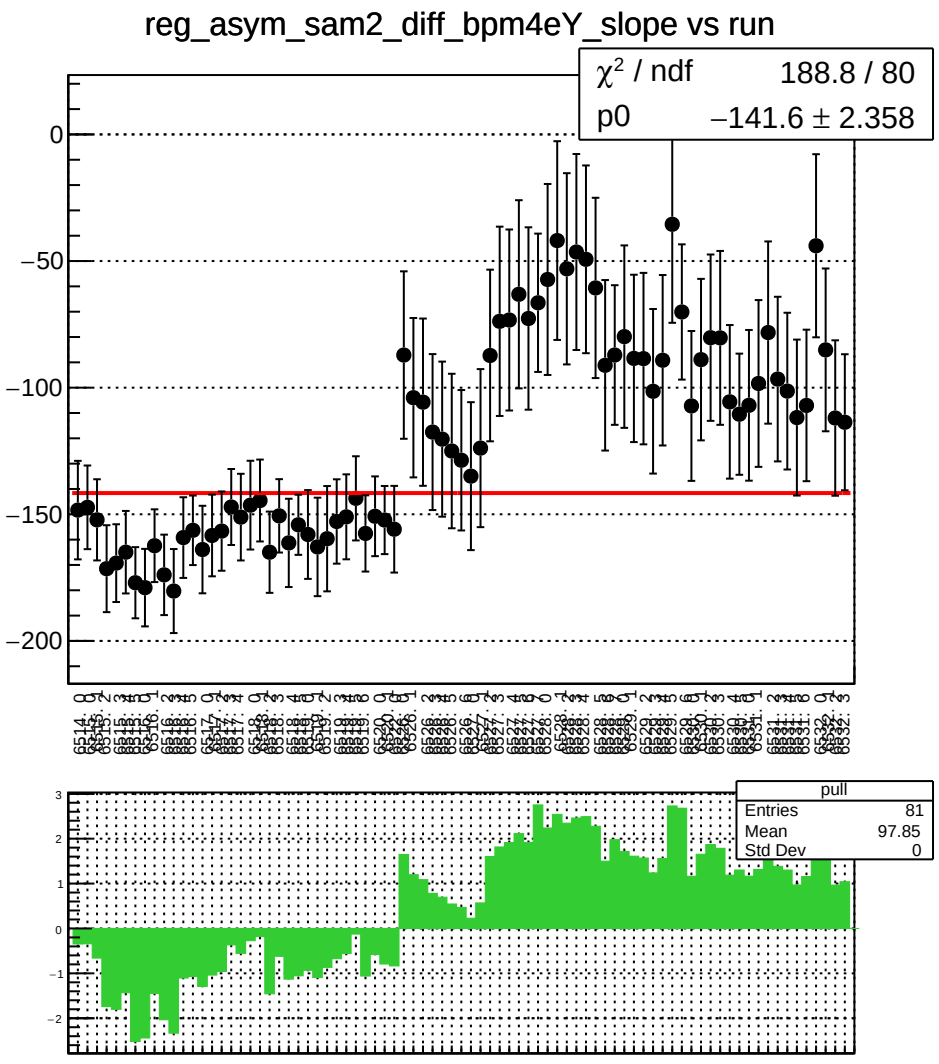

pull1D
Entries 81
Mean 0.05299
Std Dev 0.6884

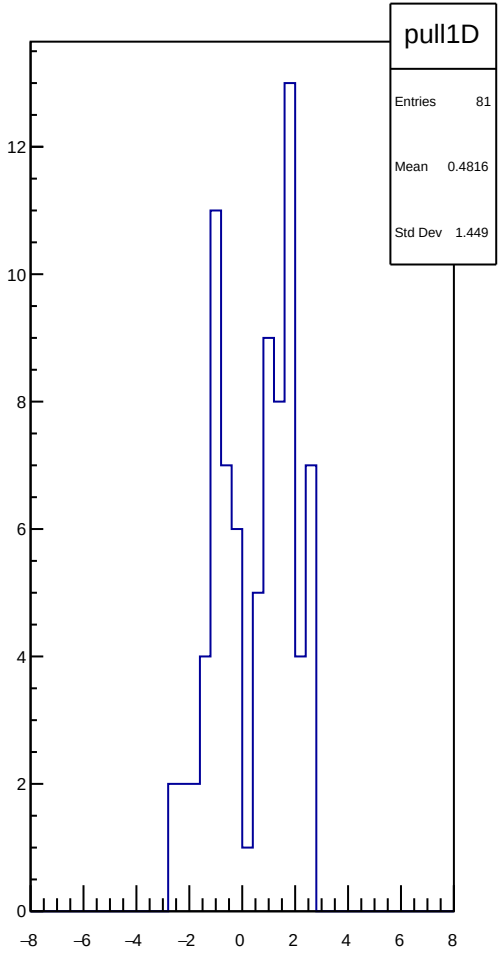

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 274.7 / 80
p0 −39.6 ± 2.056
pull
Entries 81
Mean 84.79
Std Dev 0

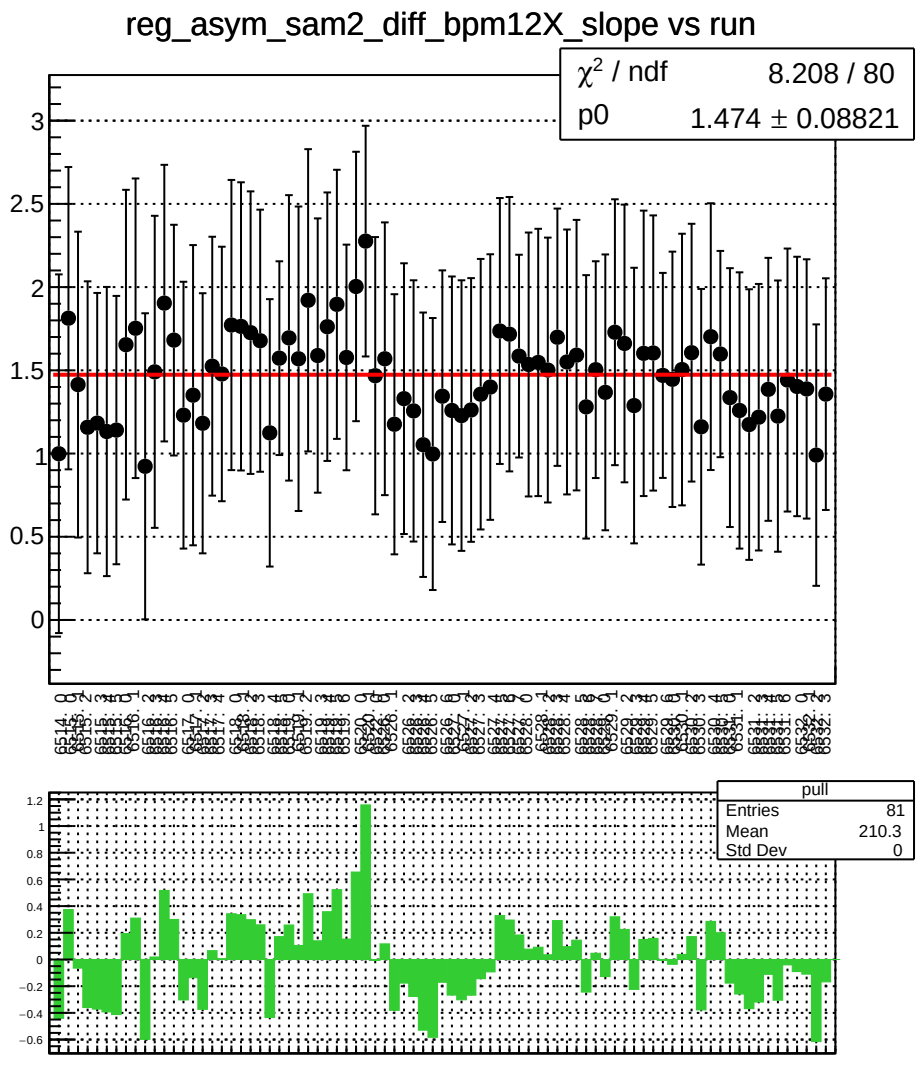

pull1D
Entries 81
Mean −0.7501
Std Dev 1.682

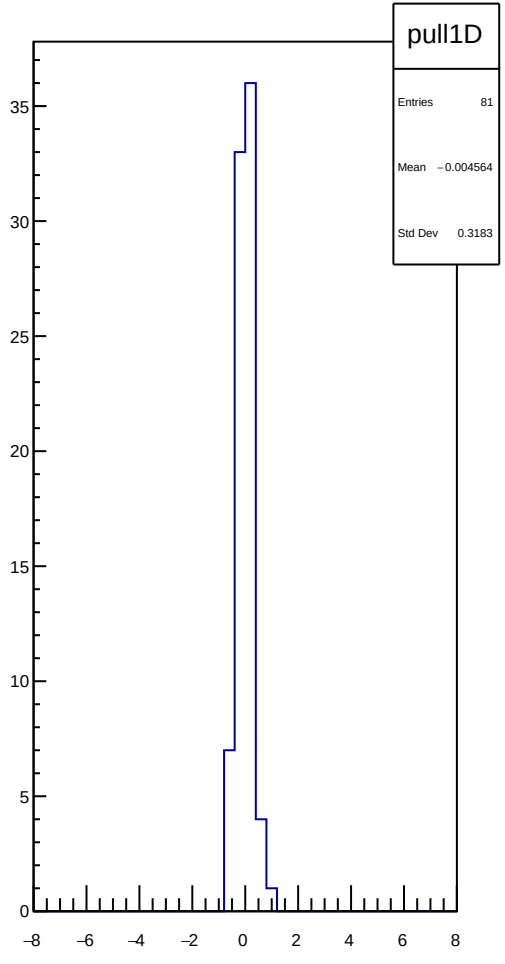

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 35.48 / 80
p0 −153.1± 2.197
−120
−140
−160
−180
−200
−220
pull
Entries 81
Mean 84.96
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

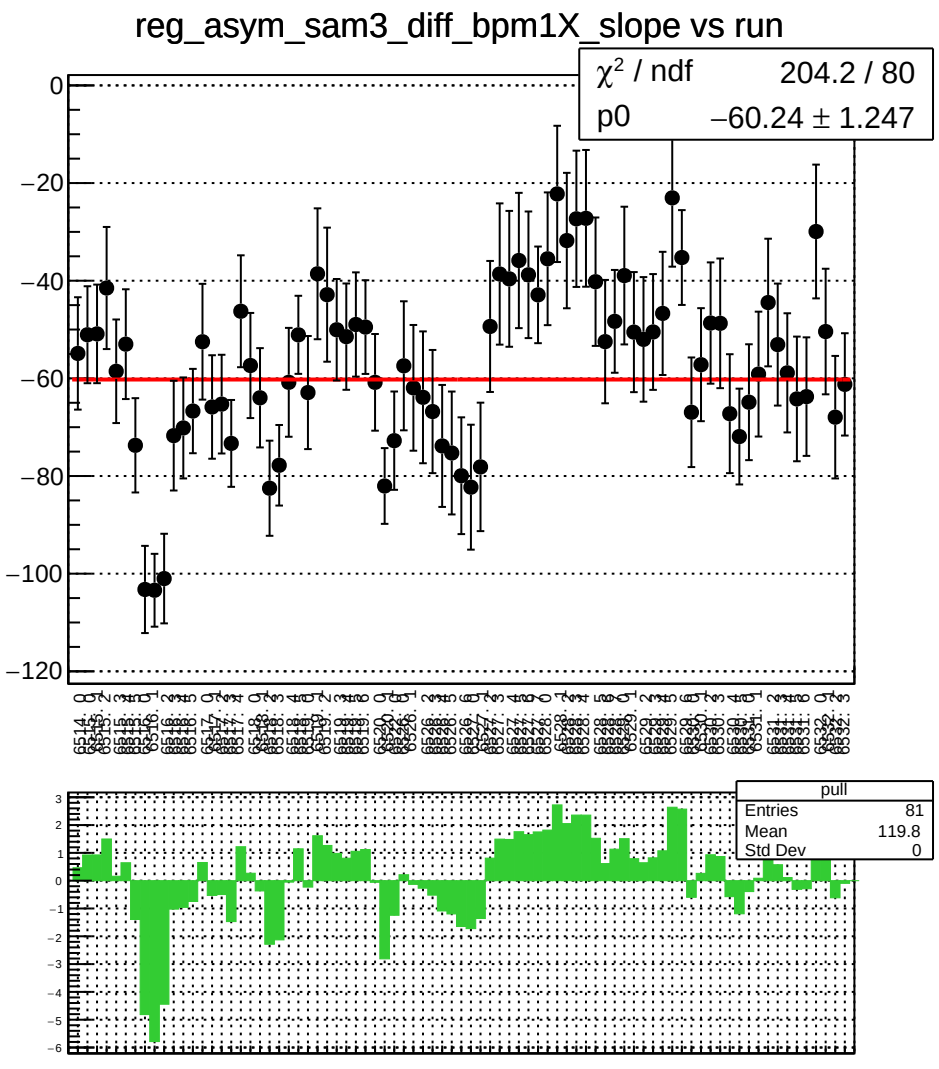

pull1D
Entries 81
Mean −0.05358
Std Dev 0.6596
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

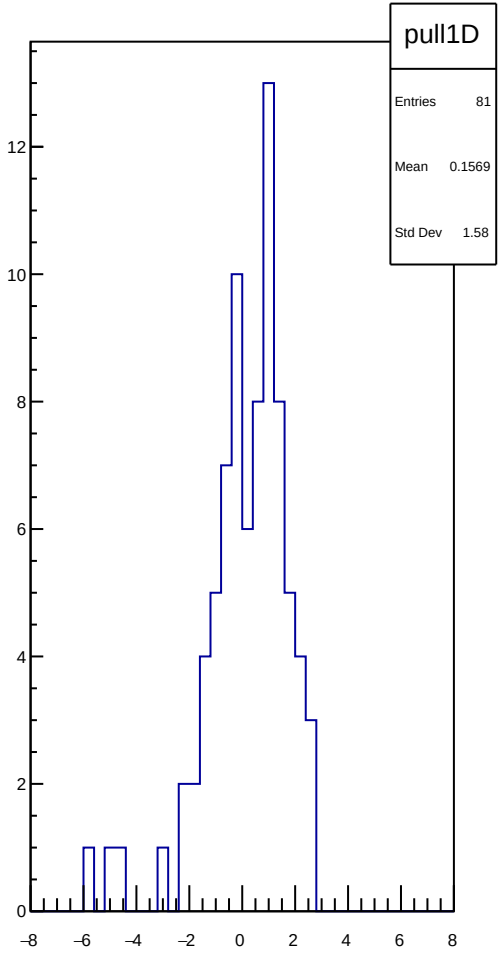

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 188.8 / 80
p0 −141.6 ± 2.358
0
−50
−100
−150
−200
pull
Entries 81
Mean 97.85
Std Dev 0
3
2
1
0
−1
−2

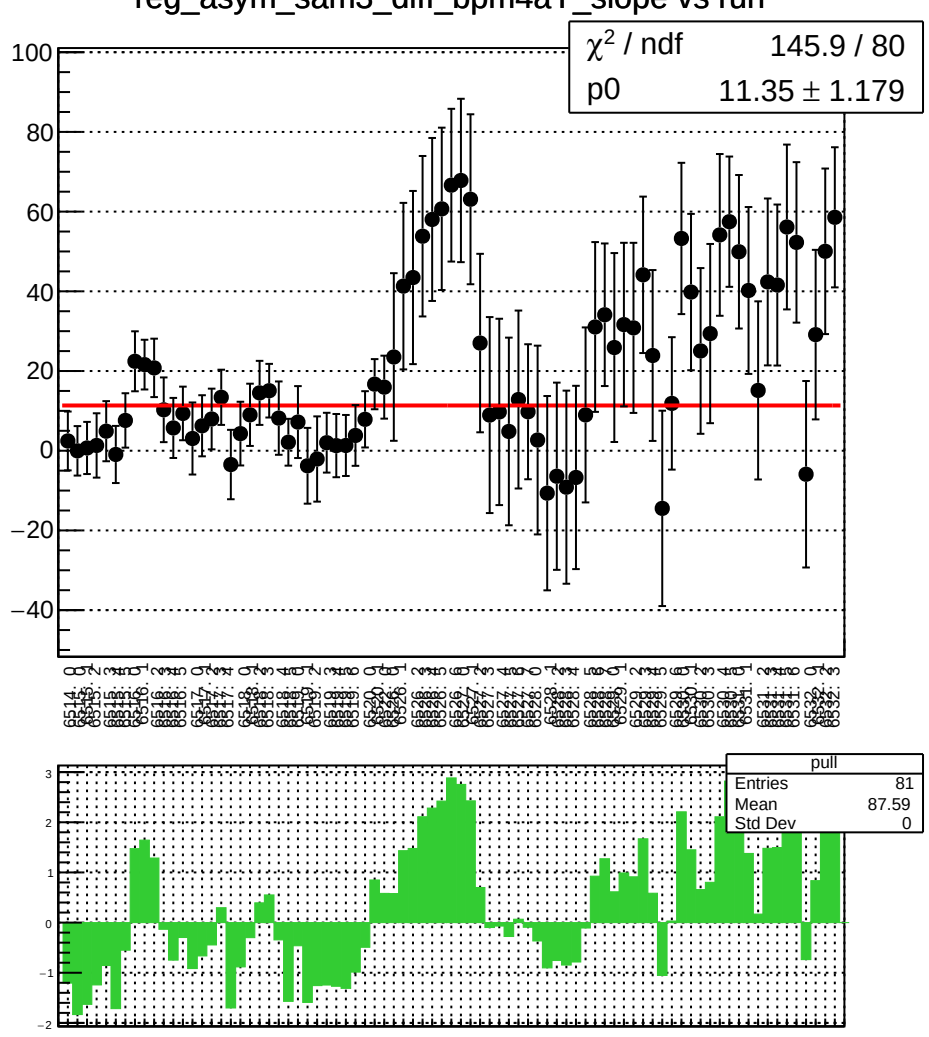

pull1D
Entries 81
Mean 0.4816
Std Dev 1.449
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

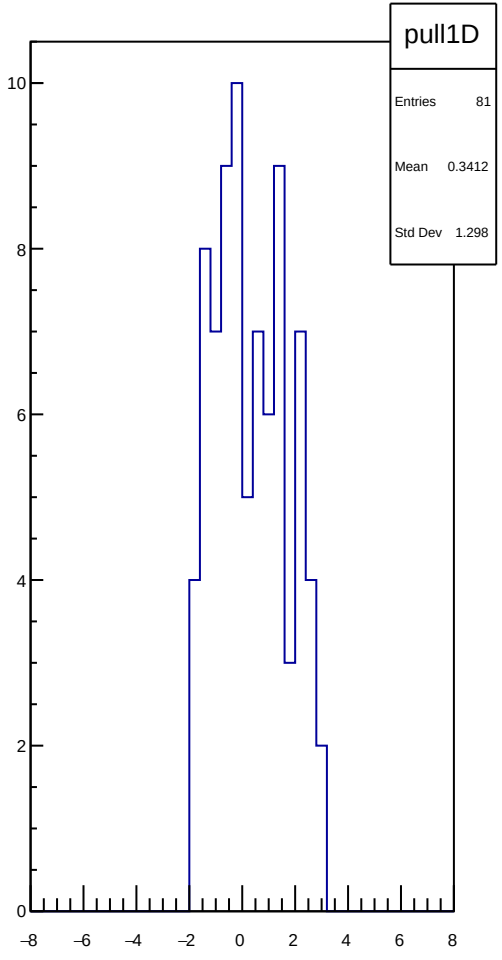

reg_asym_sam2_diff_bpm12X_slope vs run
χ^2 / ndf 8.208 / 80
p0 1.474 ± 0.08821
pull
Entries 81
Mean 210.3
Std Dev 0

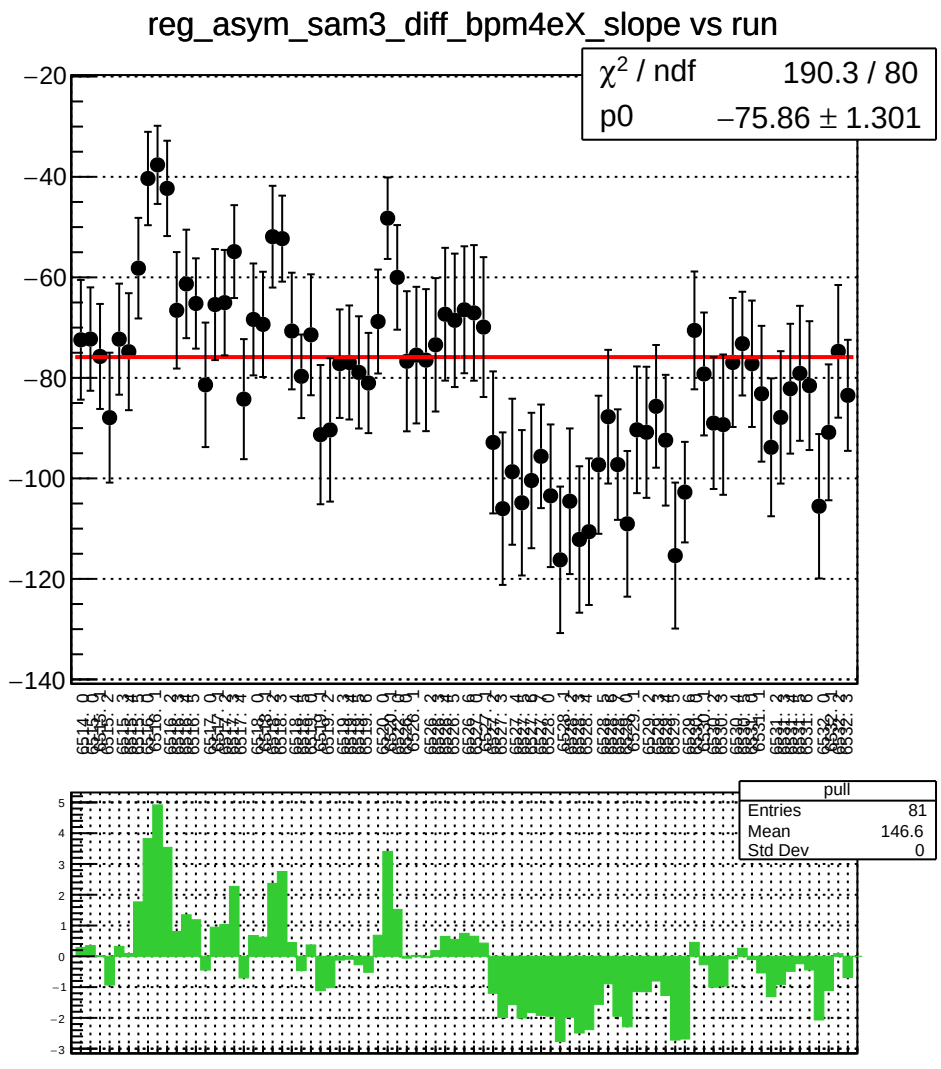

pull1D
Entries 81
Mean −0.004564
Std Dev 0.3183

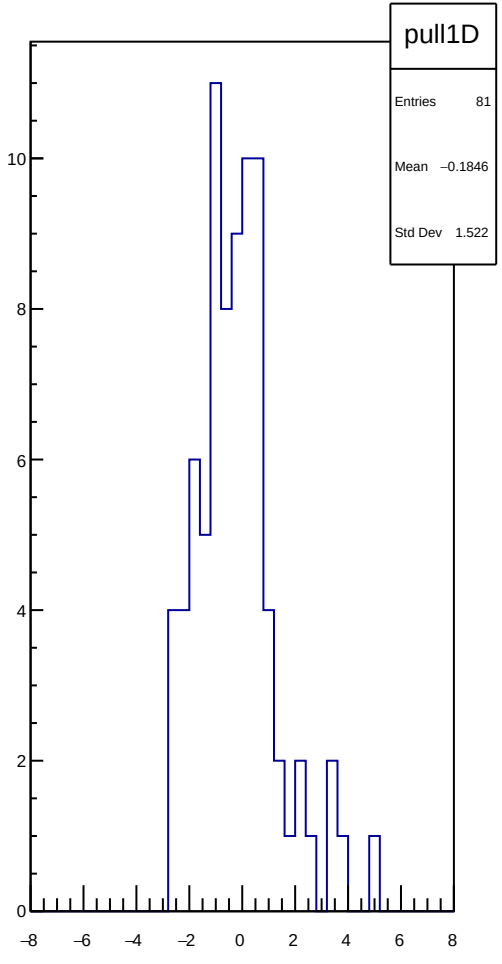

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 204.2 / 80
p0 −60.24 ± 1.247
pull
Entries 81
Mean 119.8
Std Dev 0

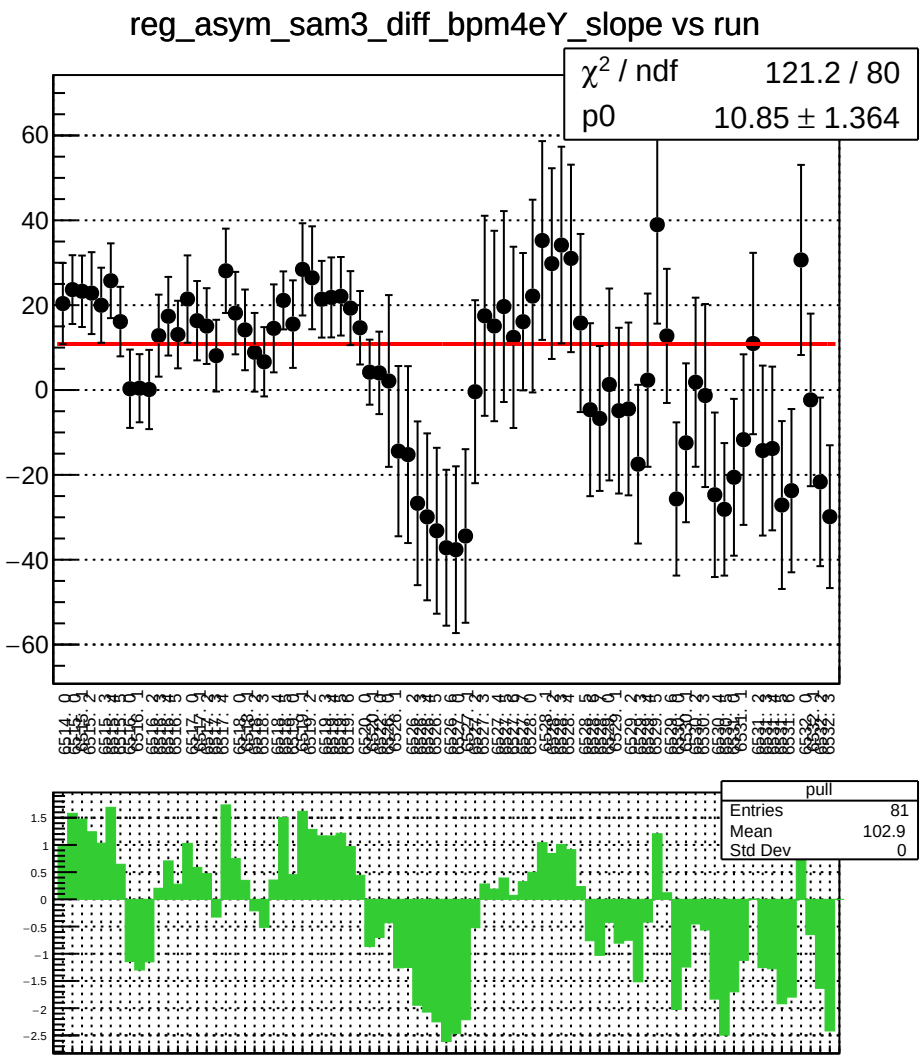

pull1D
Entries 81
Mean 0.1569
Std Dev 1.58

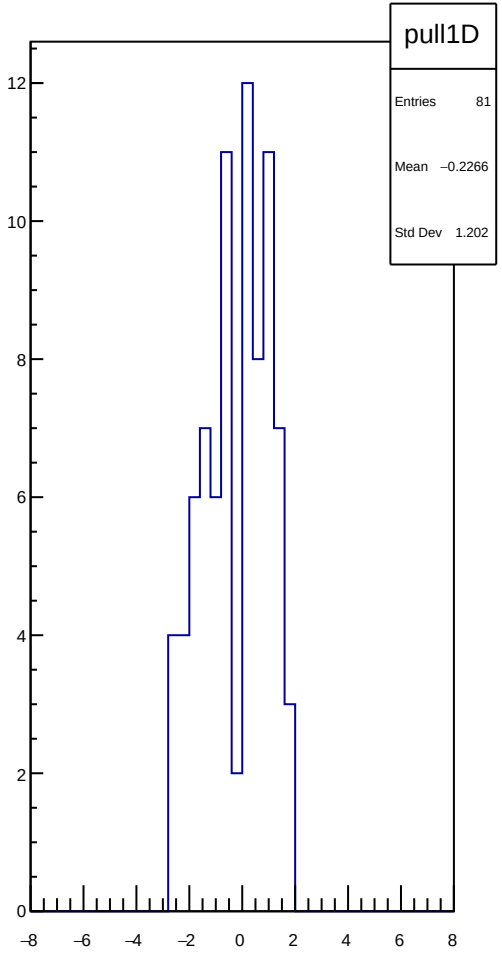

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 145.9 / 80
p0 11.35 ± 1.179
pull
Entries 81
Mean 87.59
Std Dev 0

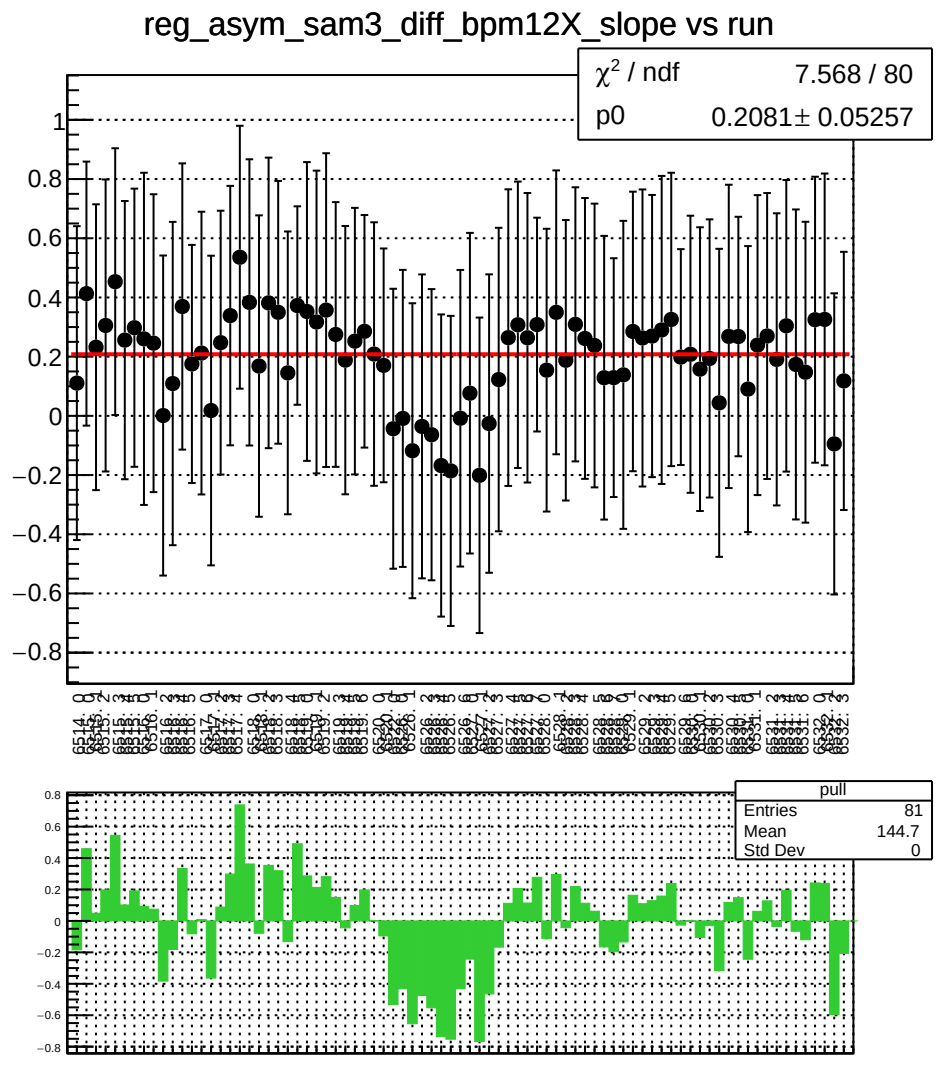

pull1D
Entries 81
Mean 0.3412
Std Dev 1.298

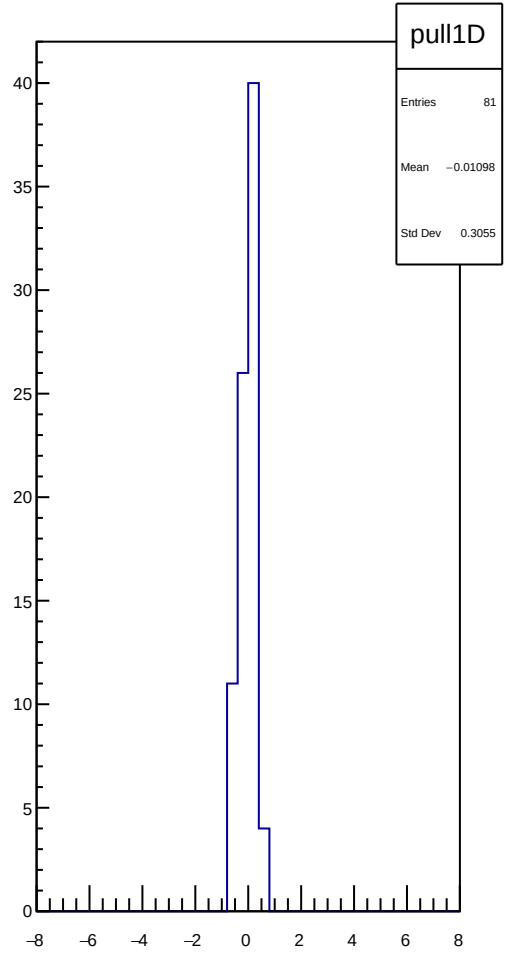

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 190.3 / 80
p0 −75.86 ± 1.301
pull
Entries 81
Mean 146.6
Std Dev 0

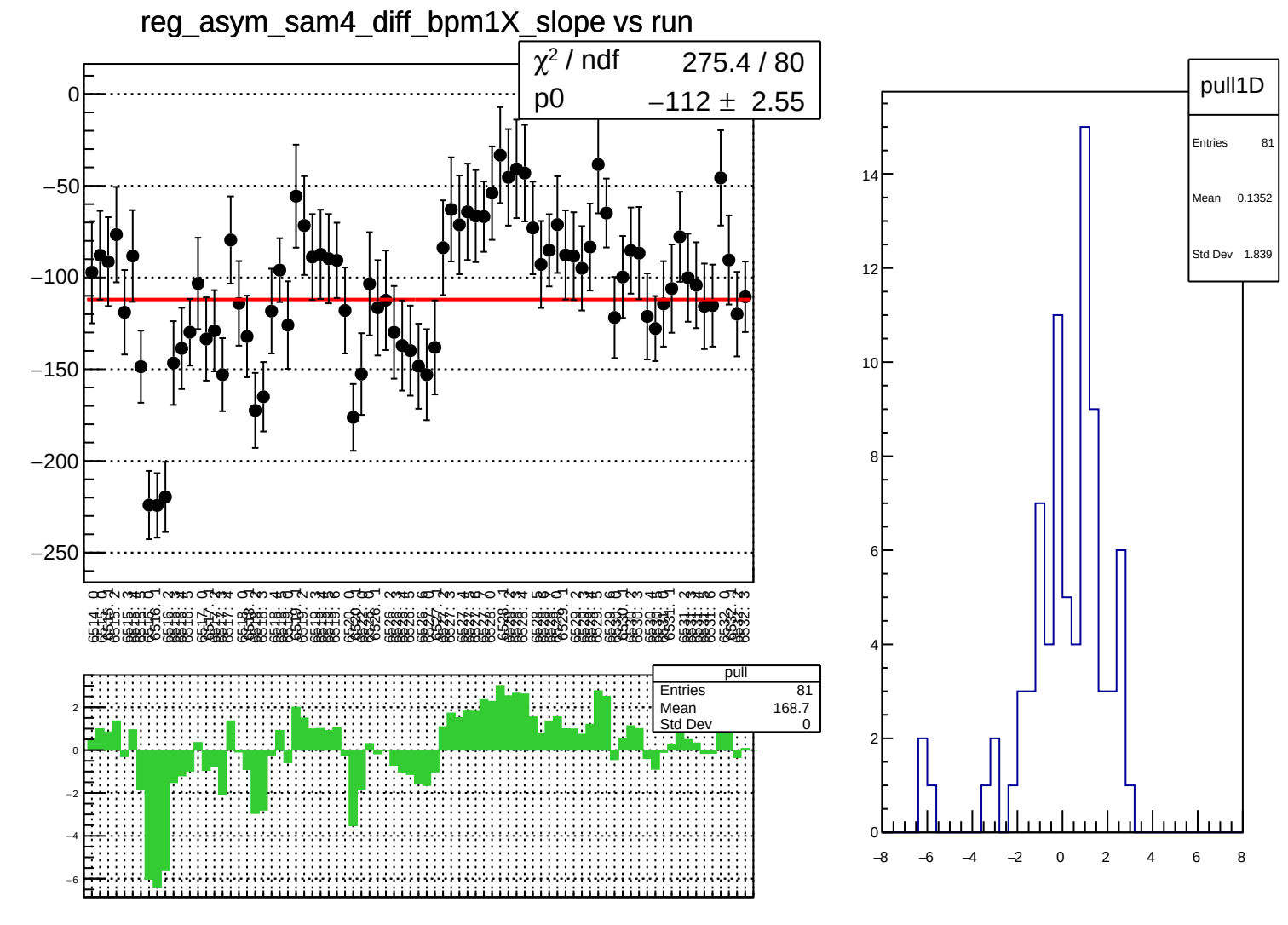

pull1D
Entries 81
Mean −0.1846
Std Dev 1.522

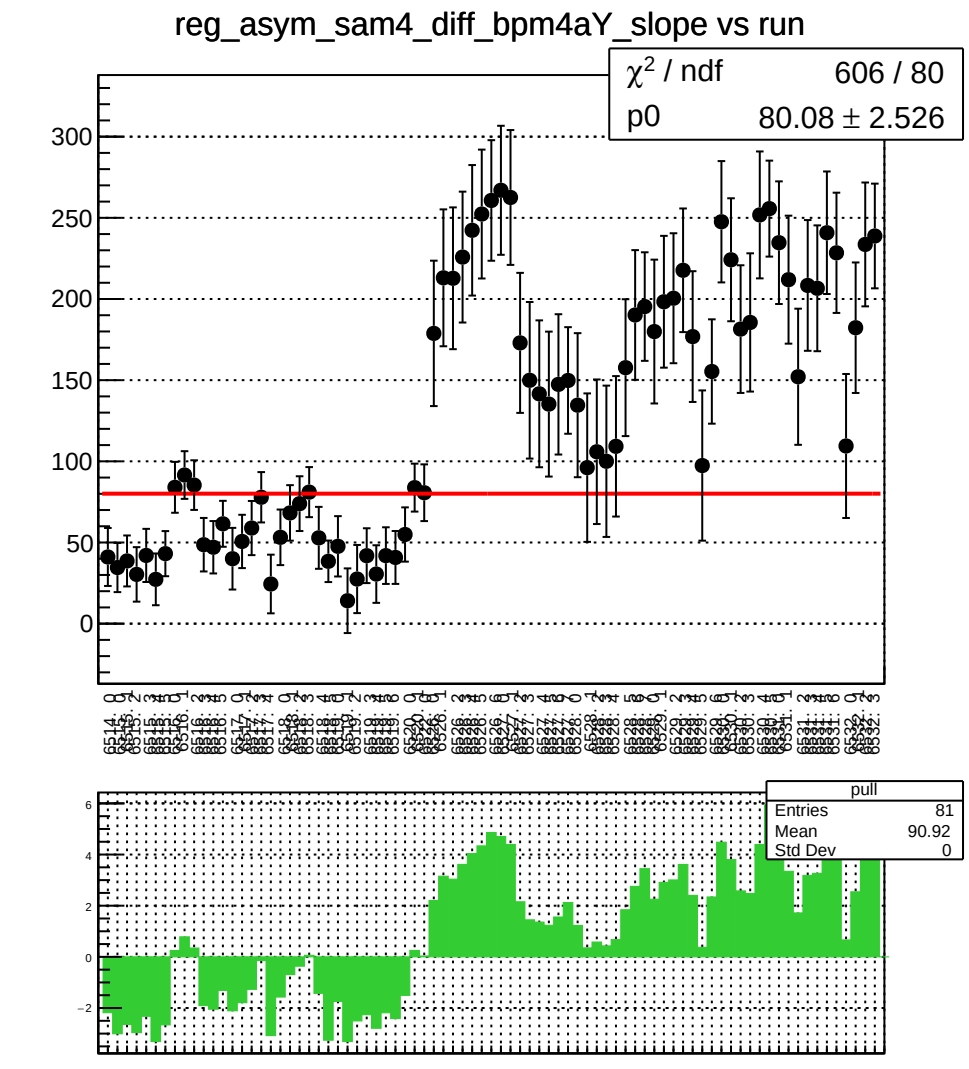

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 121.2 / 80
p0 10.85 ± 1.364
pull
Entries 81
Mean 102.9
Std Dev 0

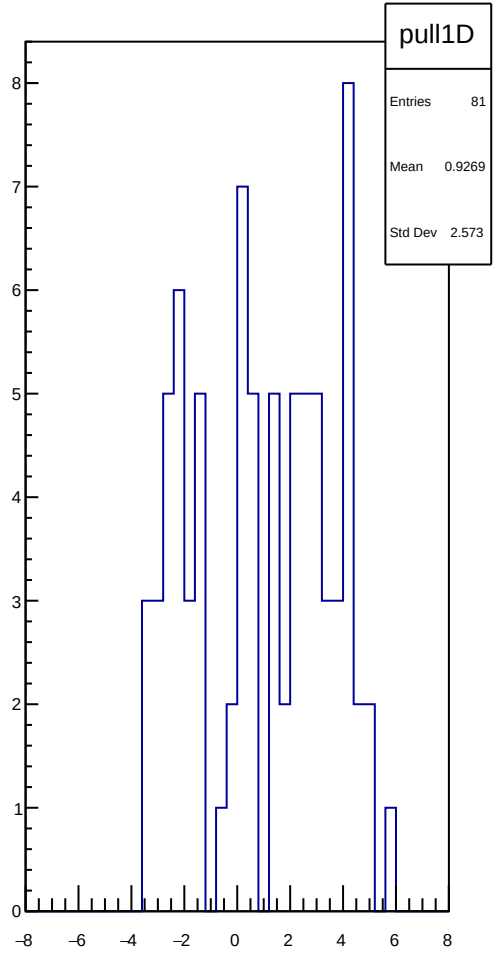

pull1D
Entries 81
Mean −0.2266
Std Dev 1.202

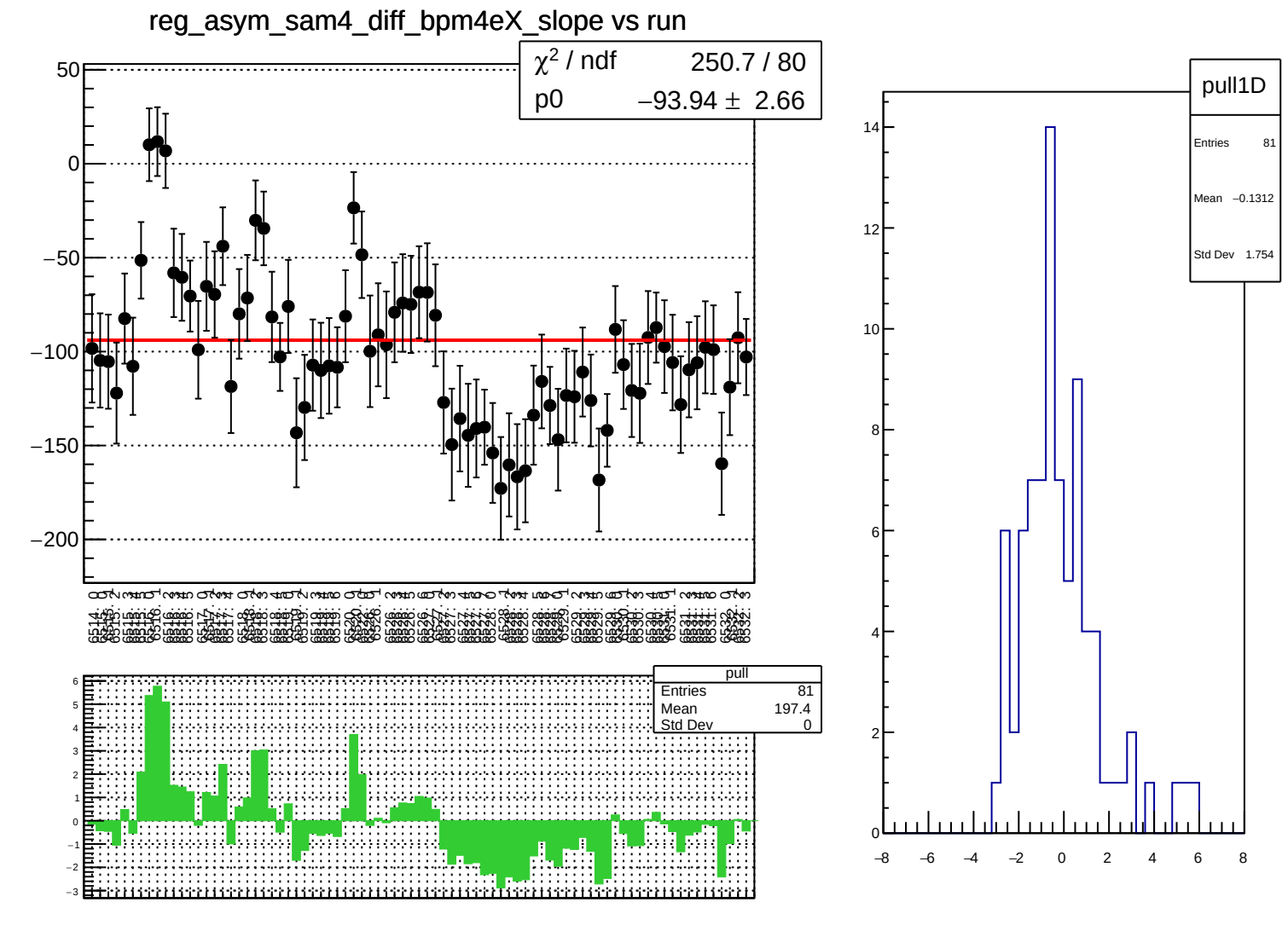

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 7.568 / 80
p0 0.2081± 0.05257
pull
Entries 81
Mean 144.7
Std Dev 0

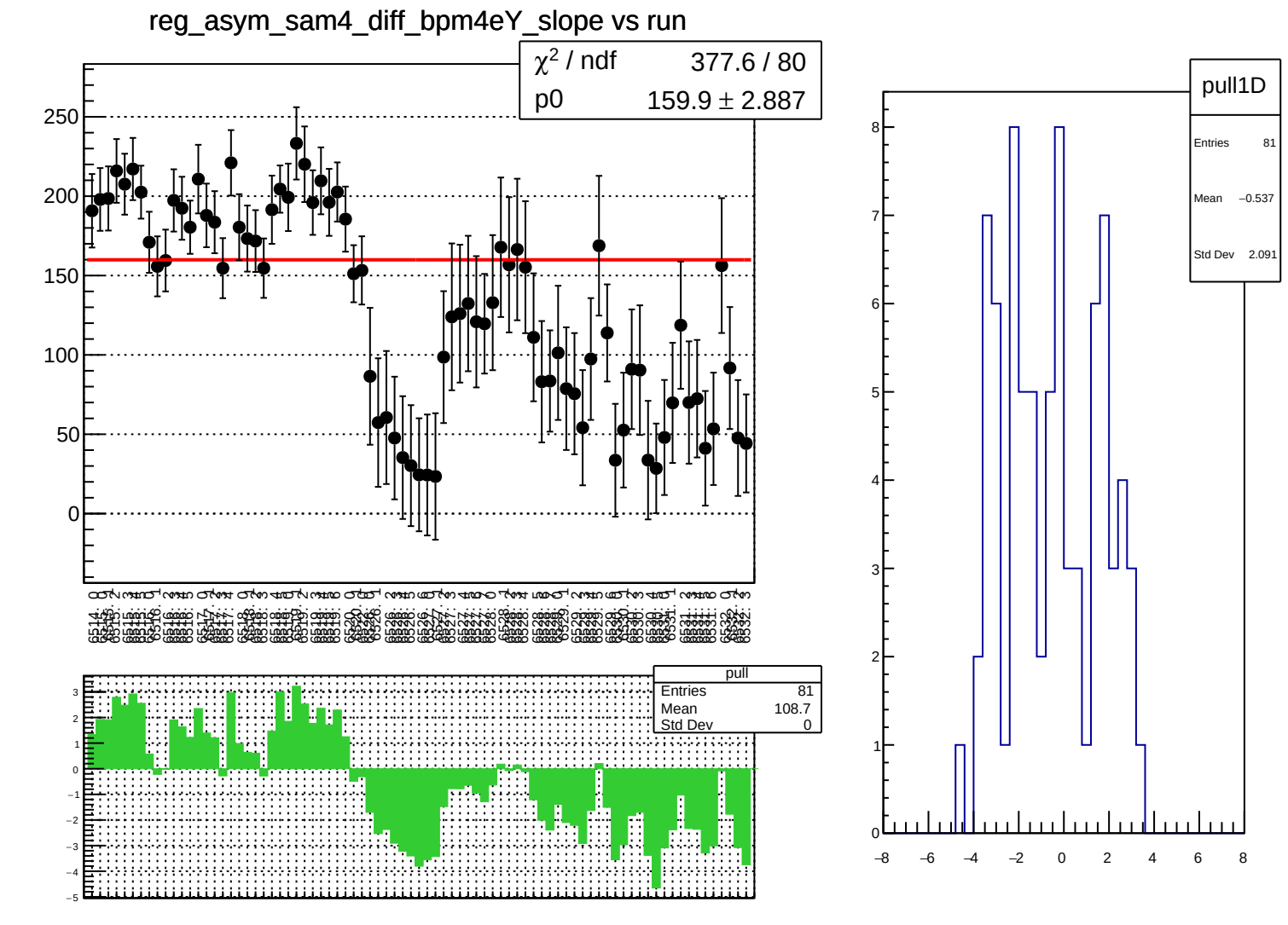

pull1D
Entries 81
Mean −0.01098
Std Dev 0.3055

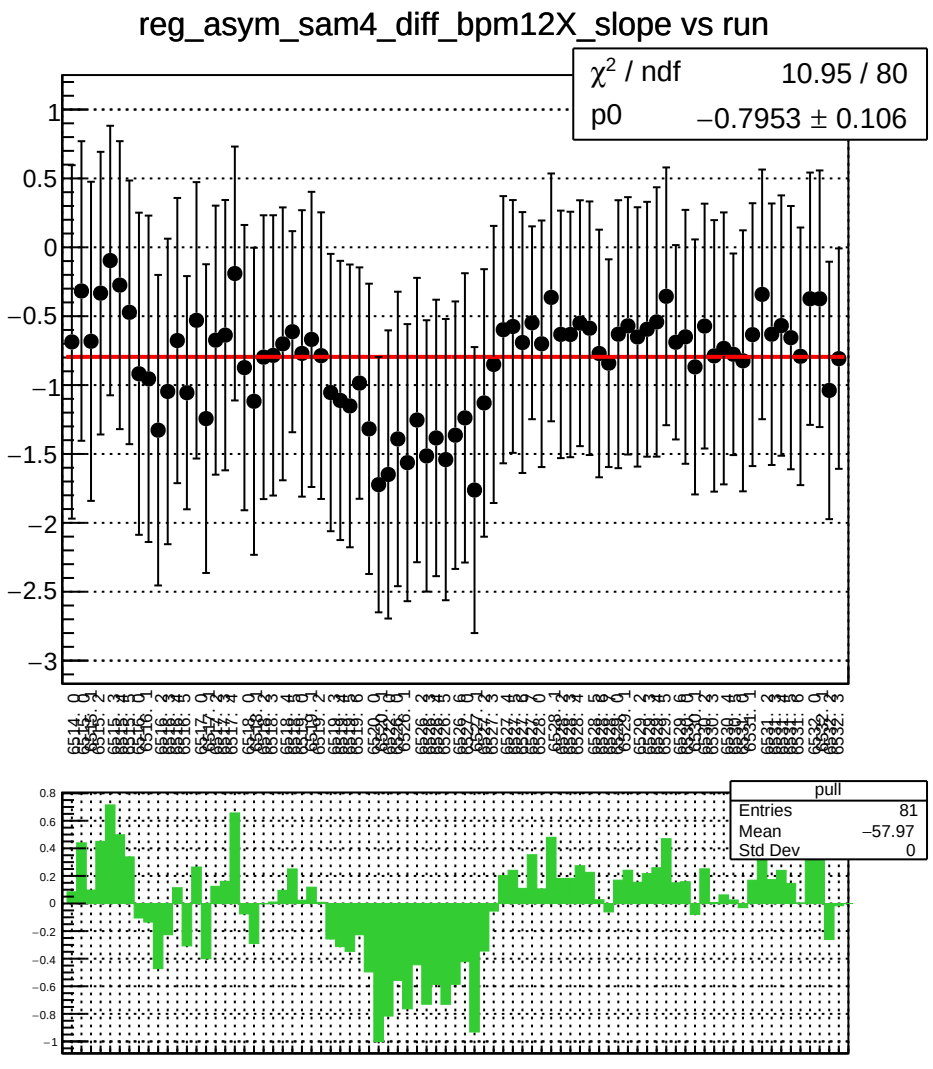

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 275.4 / 80
p0 −112 ± 2.55
pull
Entries 81
Mean 168.7
Std Dev 0
pull1D
Entries 81
Mean 0.1352
Std Dev 1.839

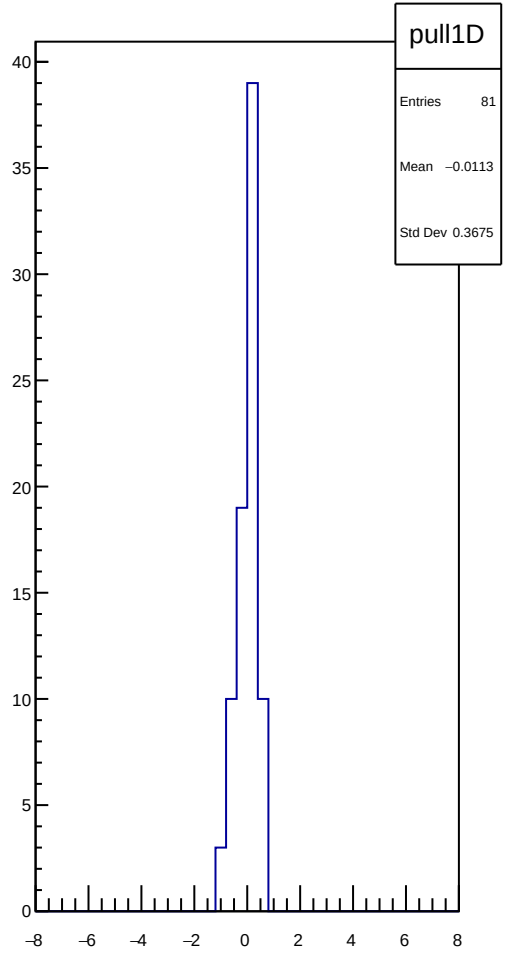

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 606 / 80
p0 80.08 ± 2.526
300
250
200
150
100
50
0
pull
Entries 81
Mean 90.92
Std Dev 0
6
4
2
0
−2

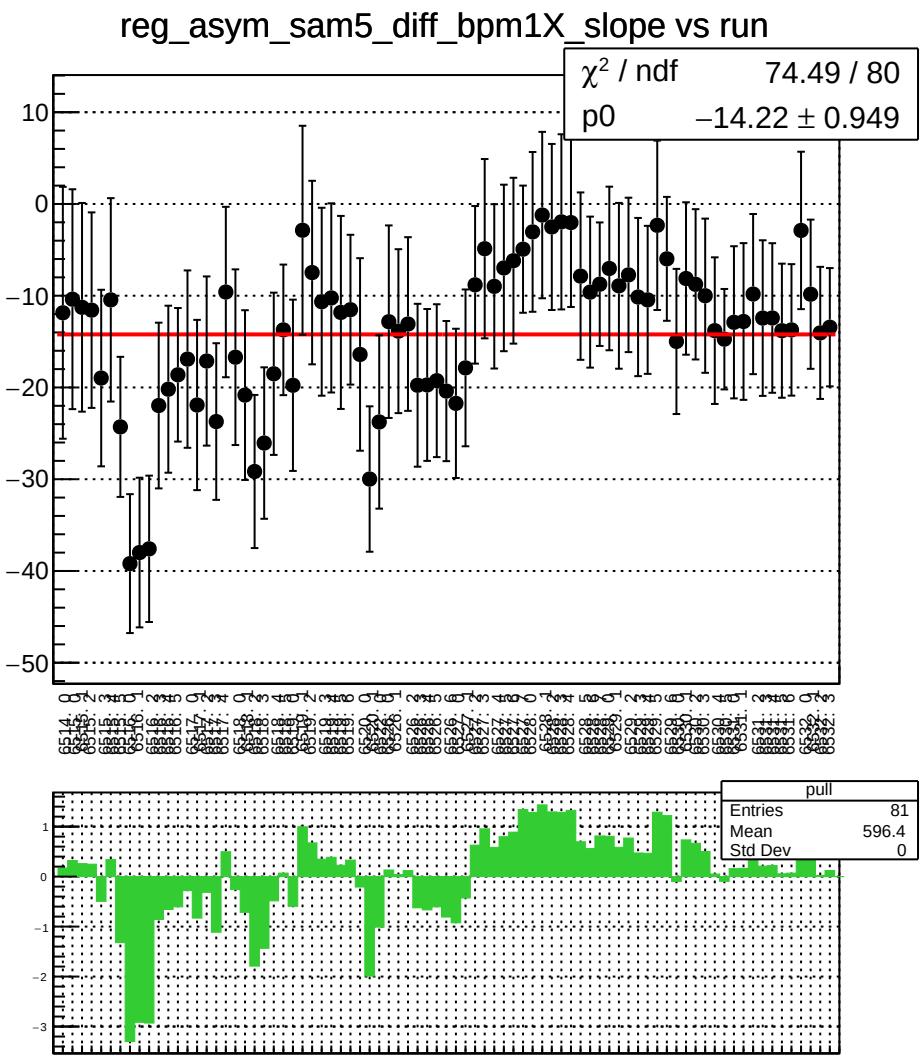

pull1D
Entries 81
Mean 0.9269
Std Dev 2.573
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

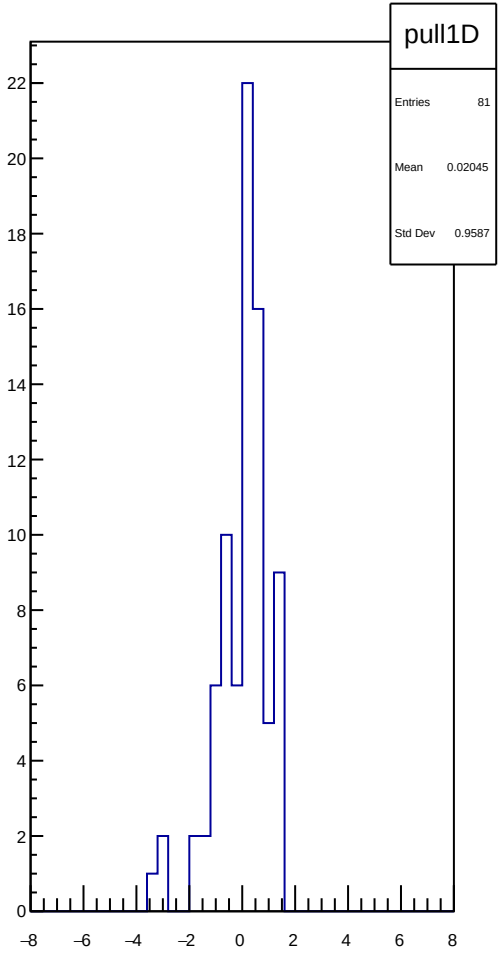

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 250.7 / 80
p0 −93.94 ± 2.66
pull
Entries 81
Mean 197.4
Std Dev 0
pull1D
Entries 81
Mean −0.1312
Std Dev 1.754

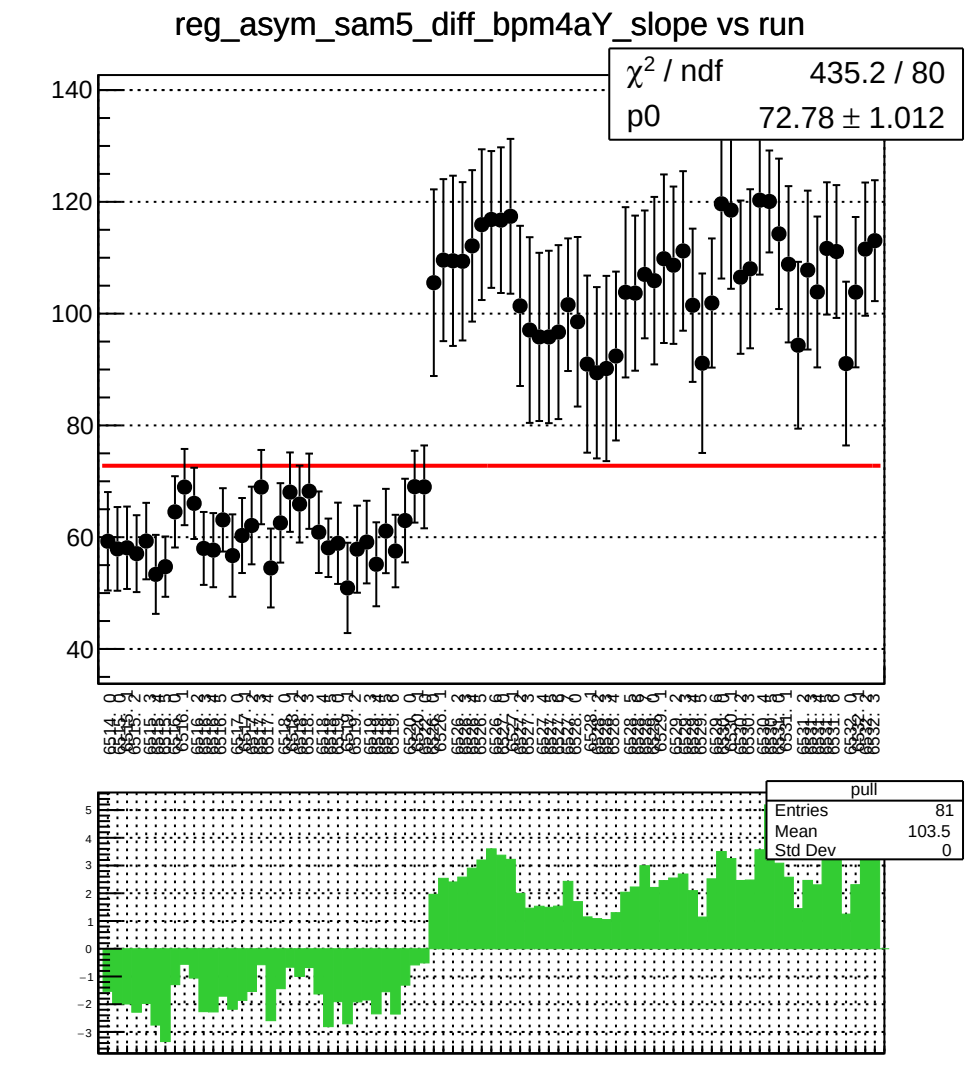

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 377.6 / 80
p0 159.9 ± 2.887
pull
Entries 81
Mean 108.7
Std Dev 0
pull1D
Entries 81
Mean −0.537
Std Dev 2.091

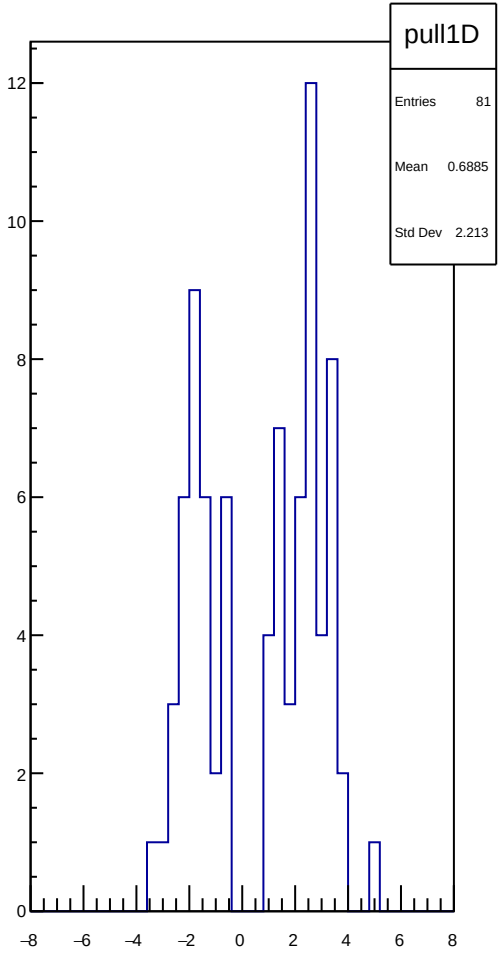

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 10.95 / 80
p0 −0.7953 ± 0.106
pull
Entries 81
Mean −57.97
Std Dev 0

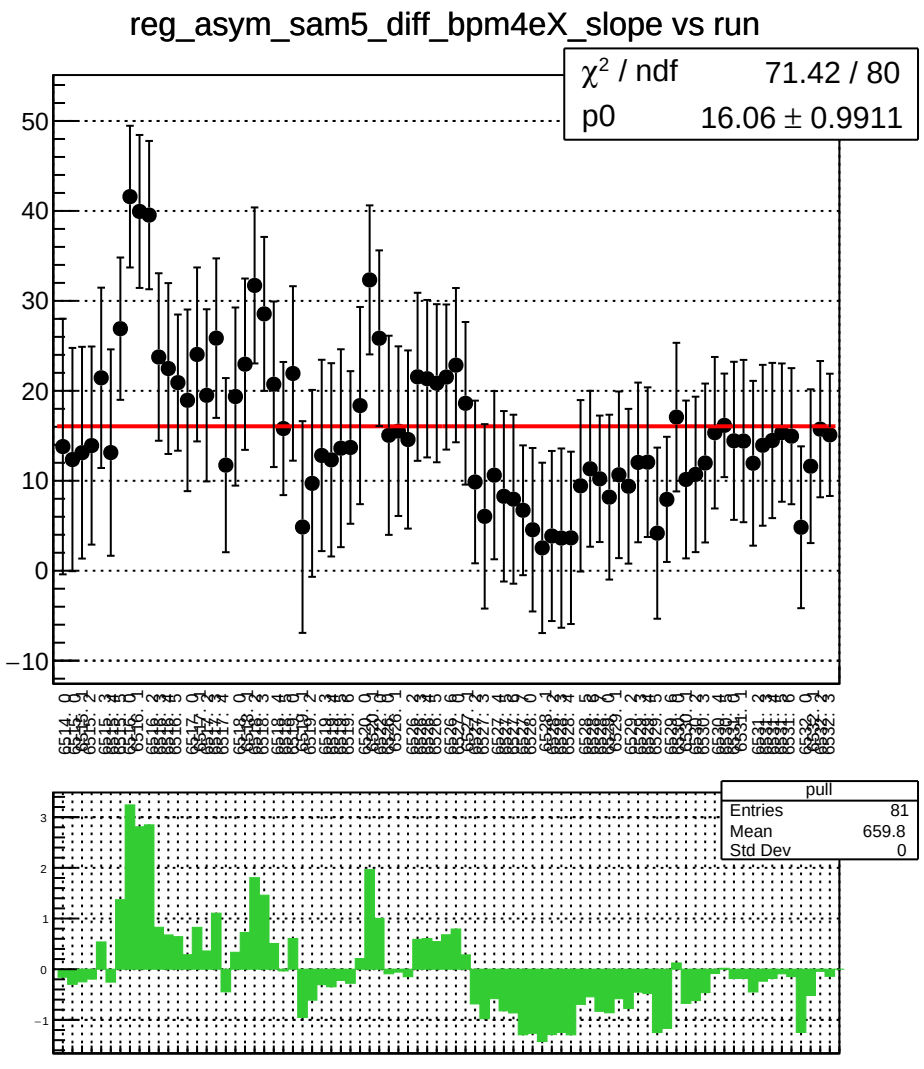

pull1D
Entries 81
Mean −0.0113
Std Dev 0.3675

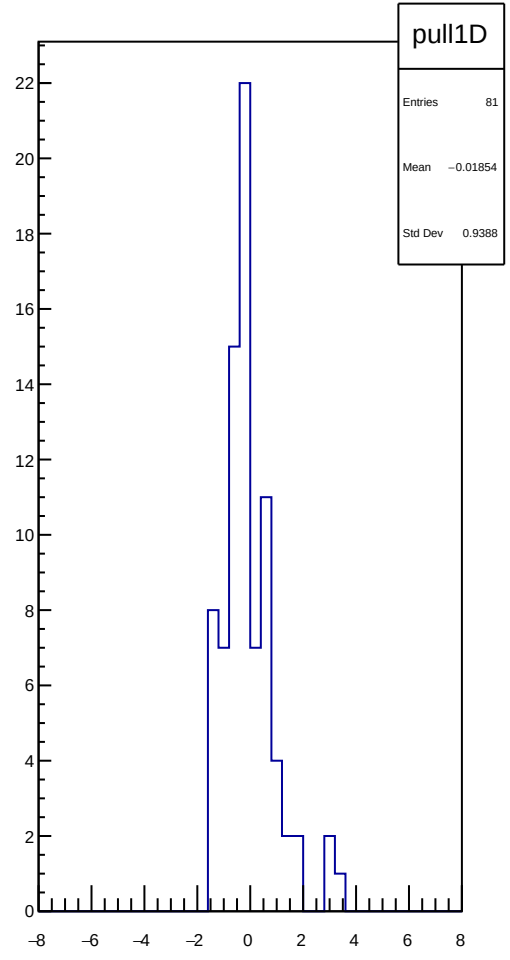

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 74.49 / 80
p0 −14.22 ± 0.949
pull
Entries 81
Mean 596.4
Std Dev 0

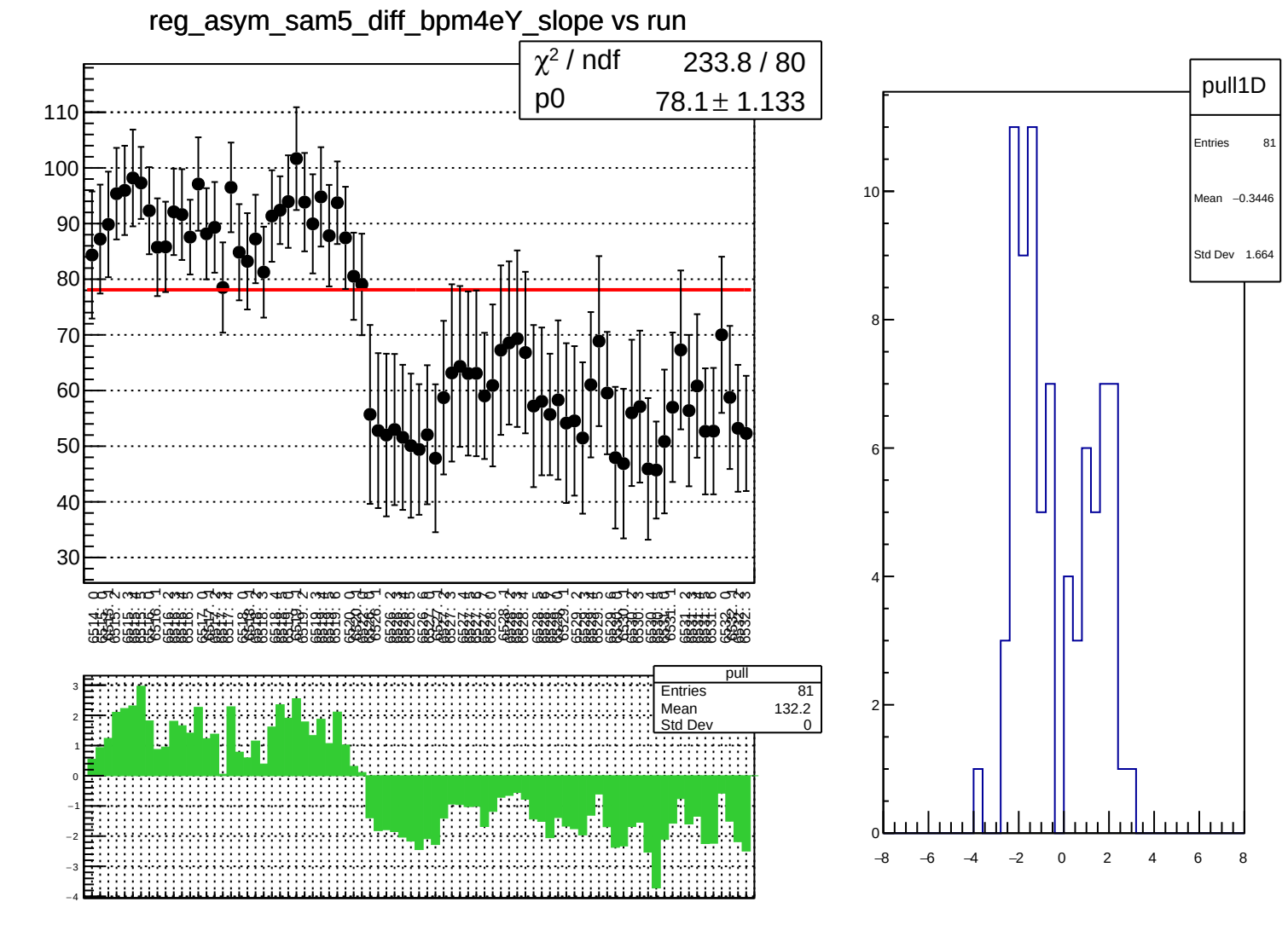

pull1D
Entries 81
Mean 0.02045
Std Dev 0.9587

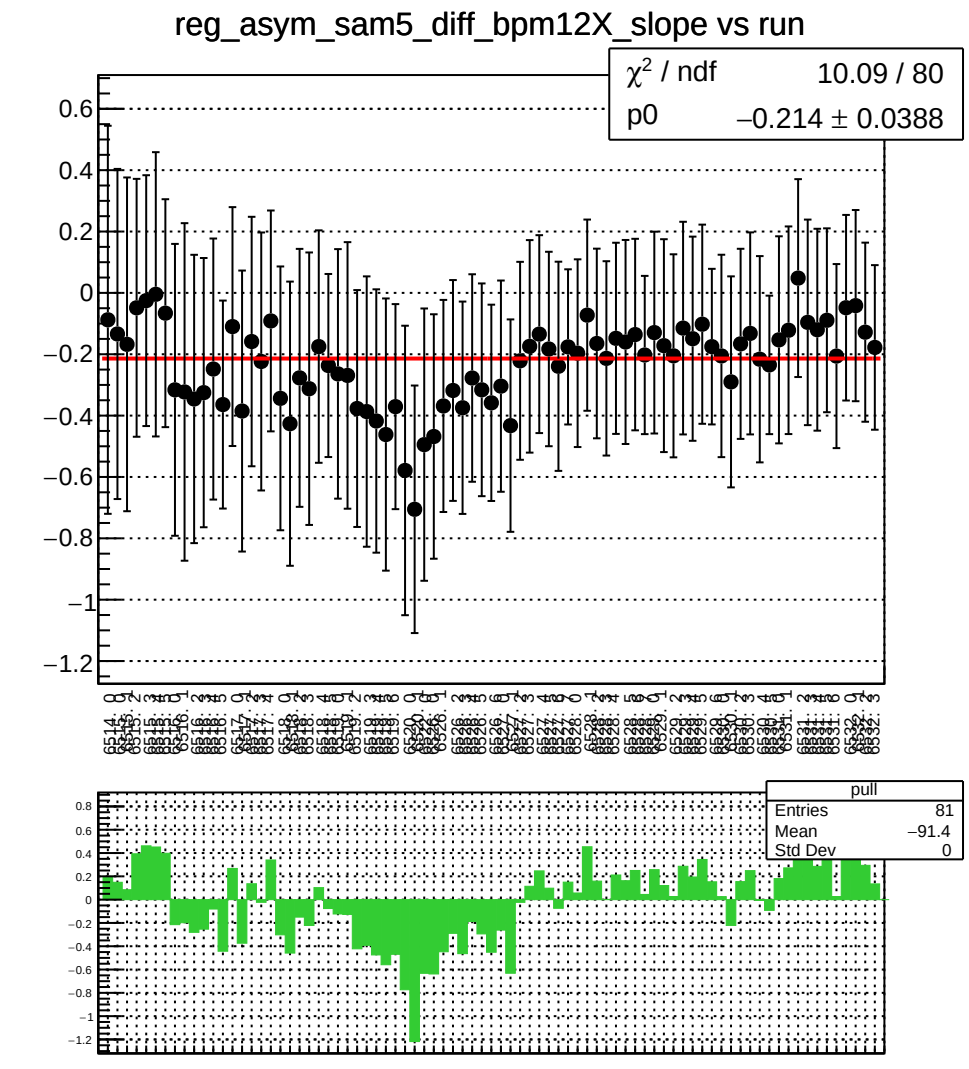

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 435.2 / 80
p0 72.78 ± 1.012
pull
Entries 81
Mean 103.5
Std Dev 0

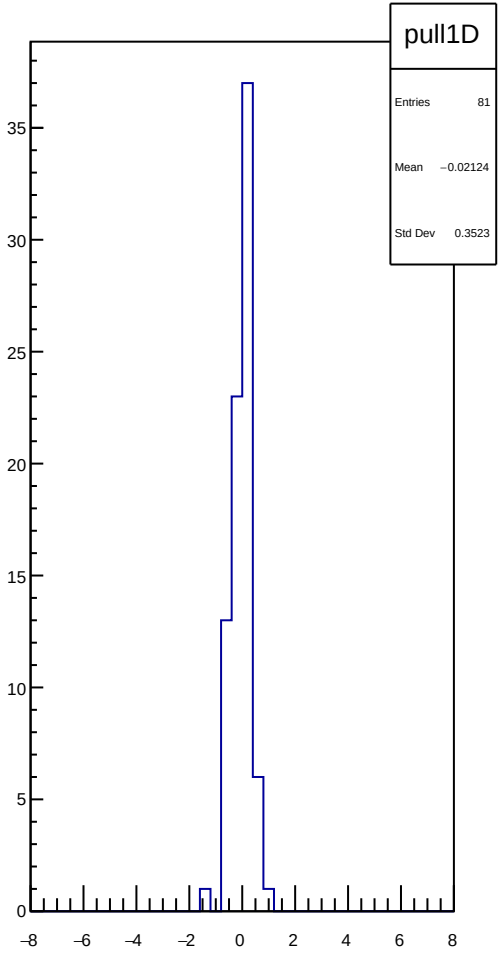

pull1D
Entries 81
Mean 0.6885
Std Dev 2.213

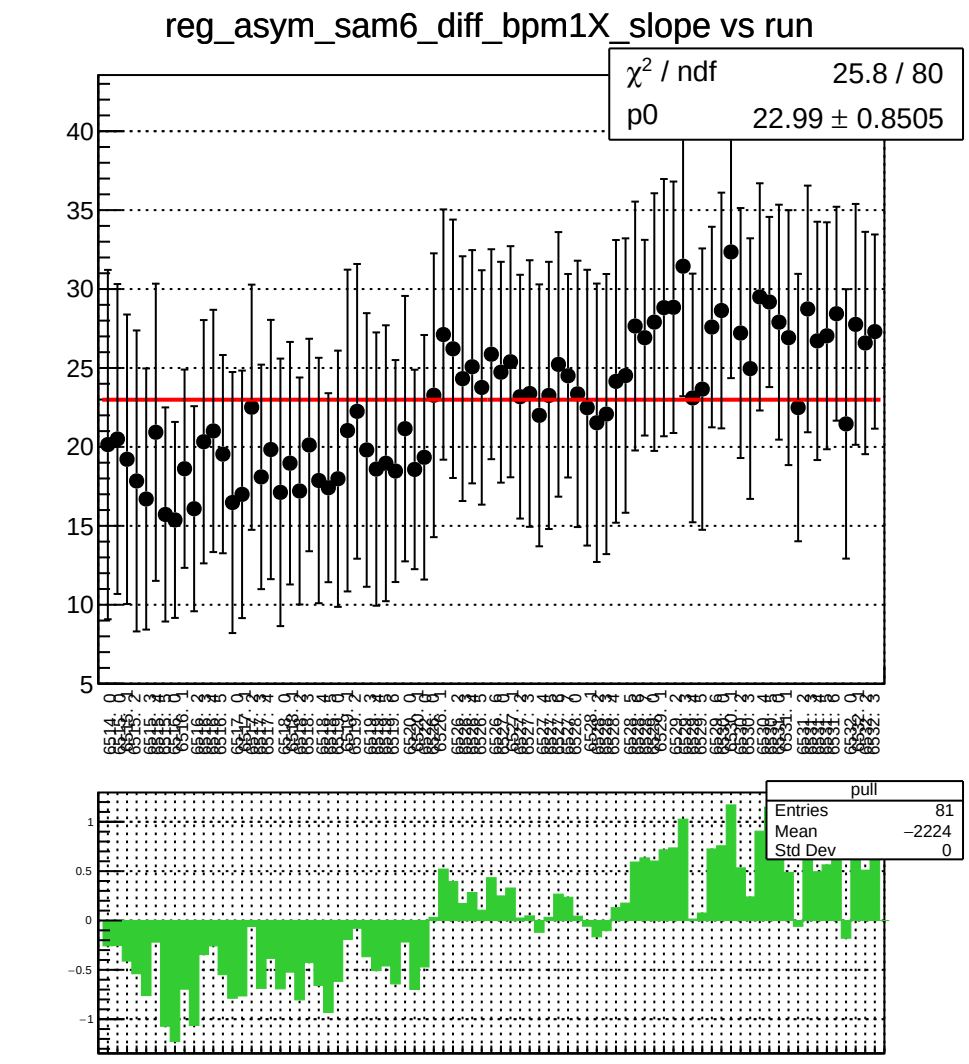

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 71.42 / 80
p0 16.06 ± 0.9911
pull
Entries 81
Mean 659.8
Std Dev 0

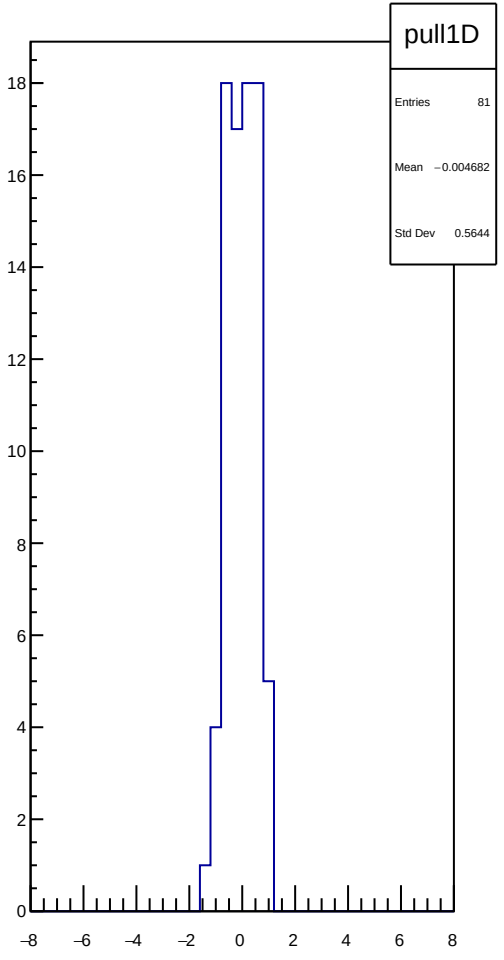

pull1D
Entries 81
Mean −0.01854
Std Dev 0.9388

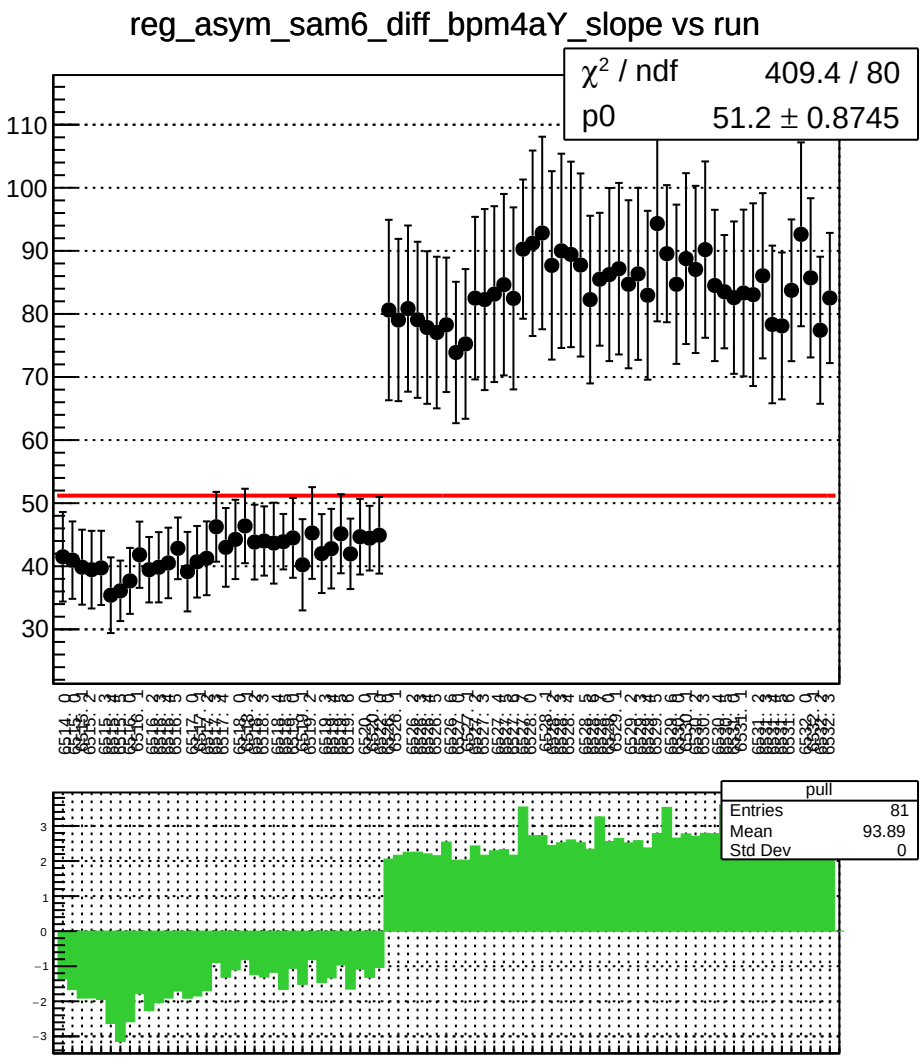

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 233.8 / 80
p0 78.1 ± 1.133
pull
Entries 81
Mean 132.2
Std Dev 0
pull1D
Entries 81
Mean −0.3446
Std Dev 1.664

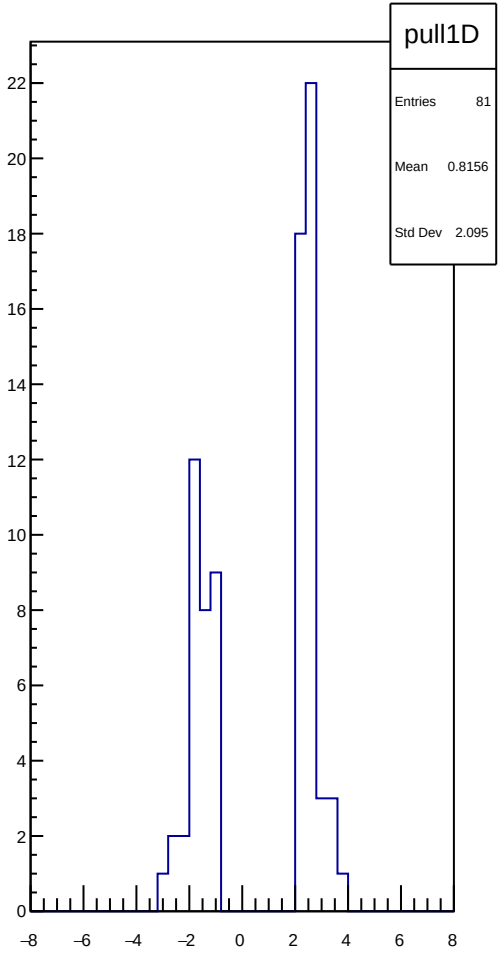

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 10.09 / 80
p0 −0.214 ± 0.0388
pull
Entries 81
Mean −91.4
Std Dev 0

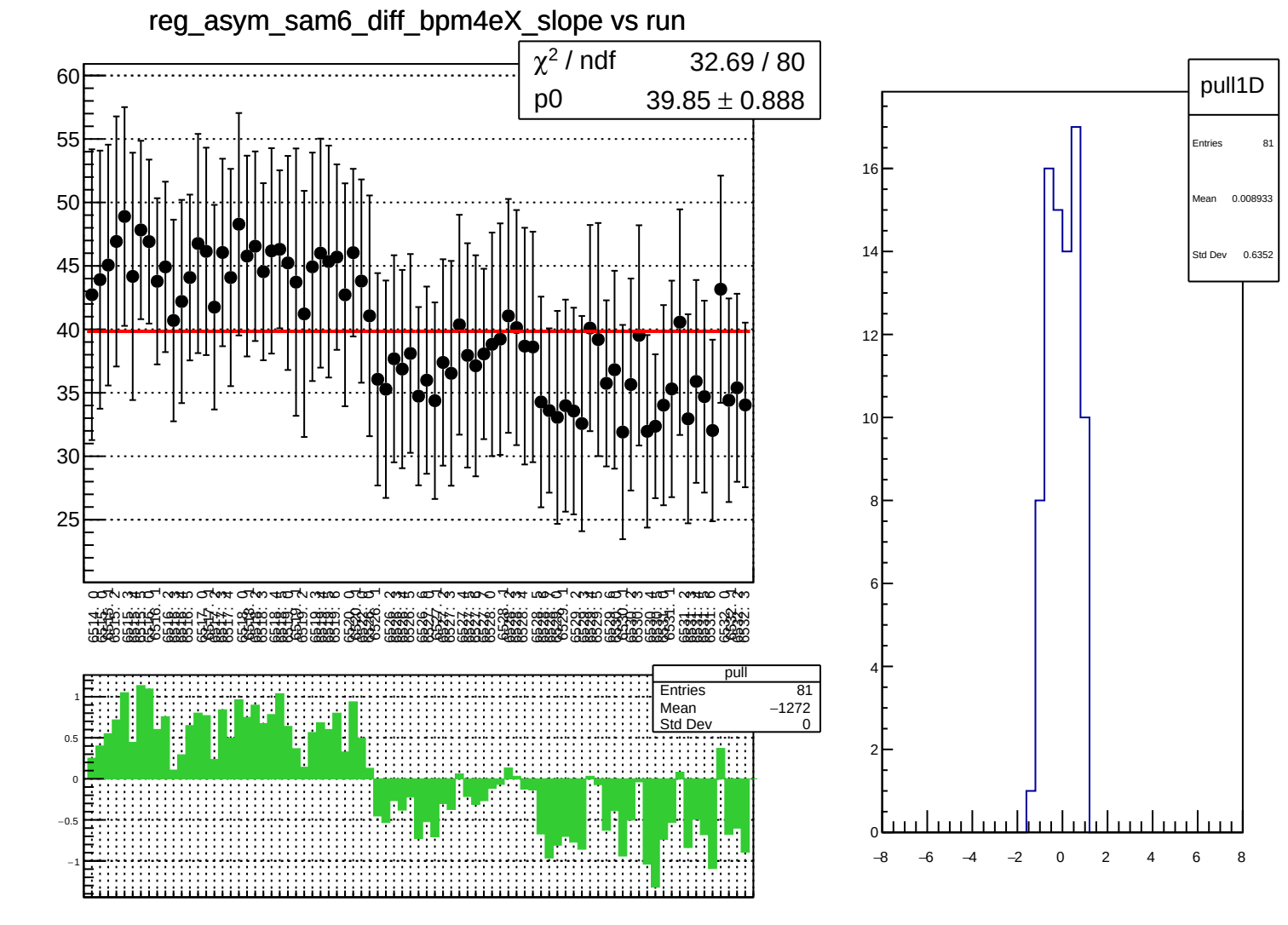

pull1D
Entries 81
Mean −0.02124
Std Dev 0.3523

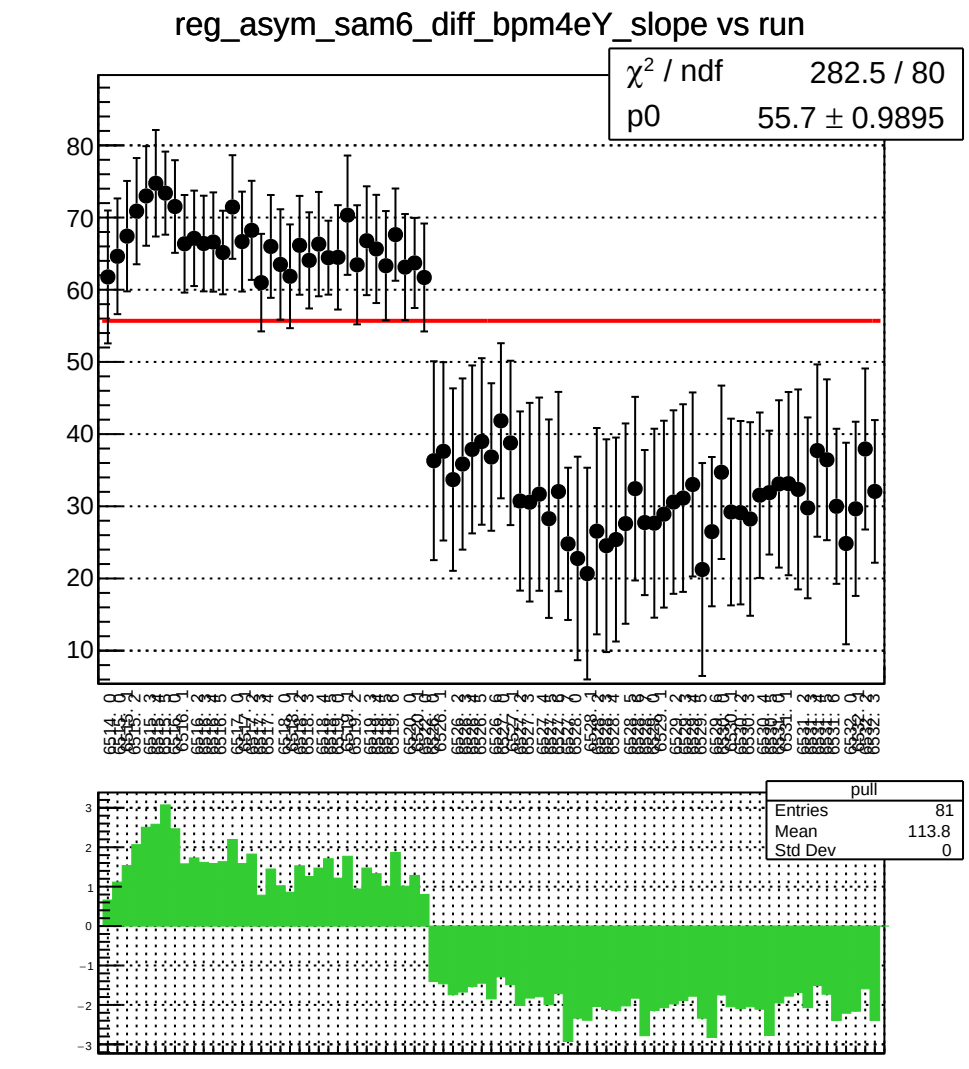

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 25.8 / 80
p0 22.99 ± 0.8505
pull
Entries 81
Mean −2224
Std Dev 0

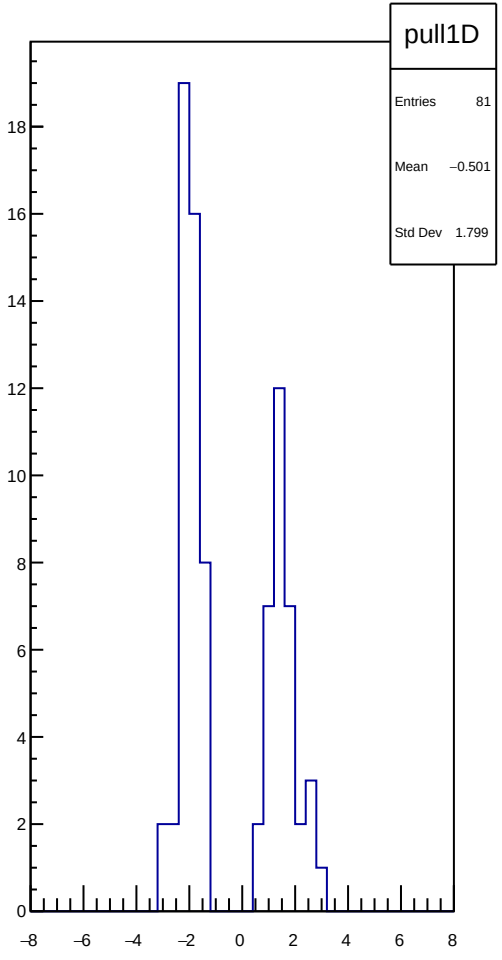

pull1D
Entries 81
Mean −0.004682
Std Dev 0.5644

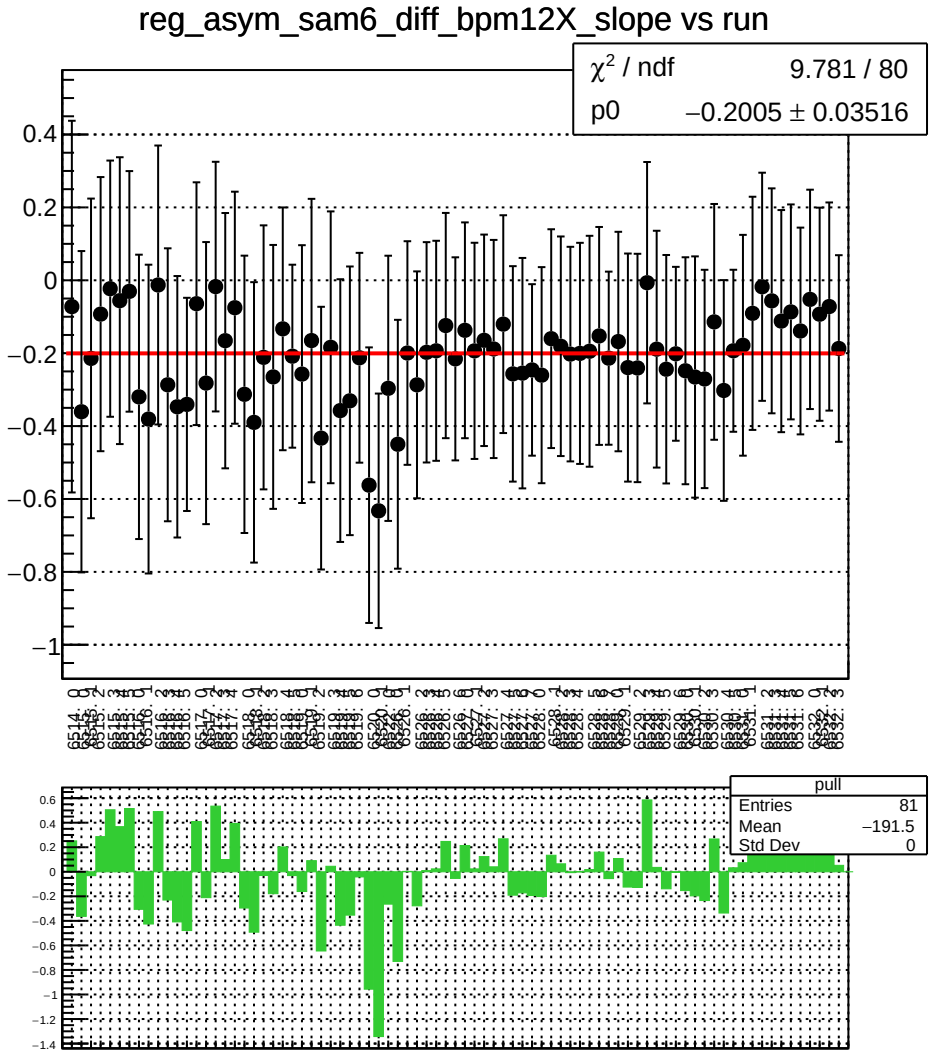

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 409.4 / 80
p0 51.2 ± 0.8745
pull
Entries 81
Mean 93.89
Std Dev 0

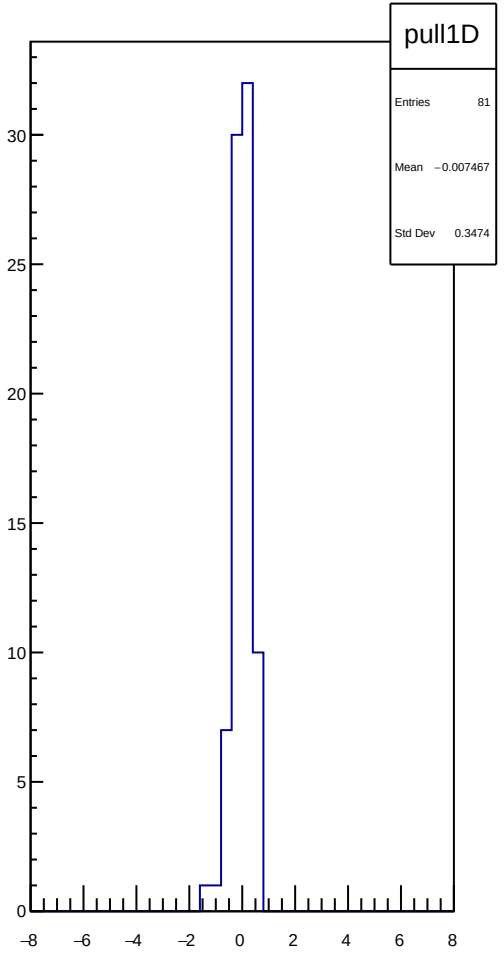

pull1D
Entries 81
Mean 0.8156
Std Dev 2.095

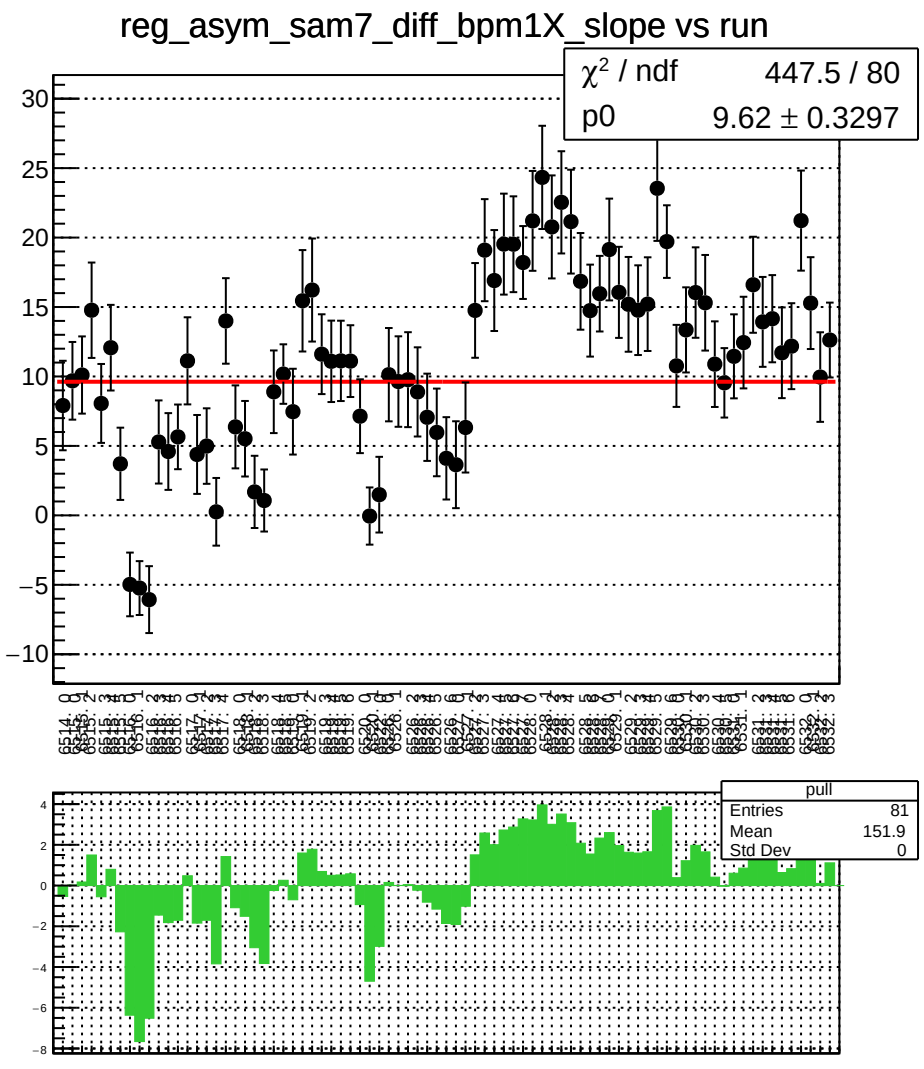

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 32.69 / 80
p0 39.85 ± 0.888
pull
Entries 81
Mean −1272
Std Dev 0
pull1D
Entries 81
Mean 0.008933
Std Dev 0.6352

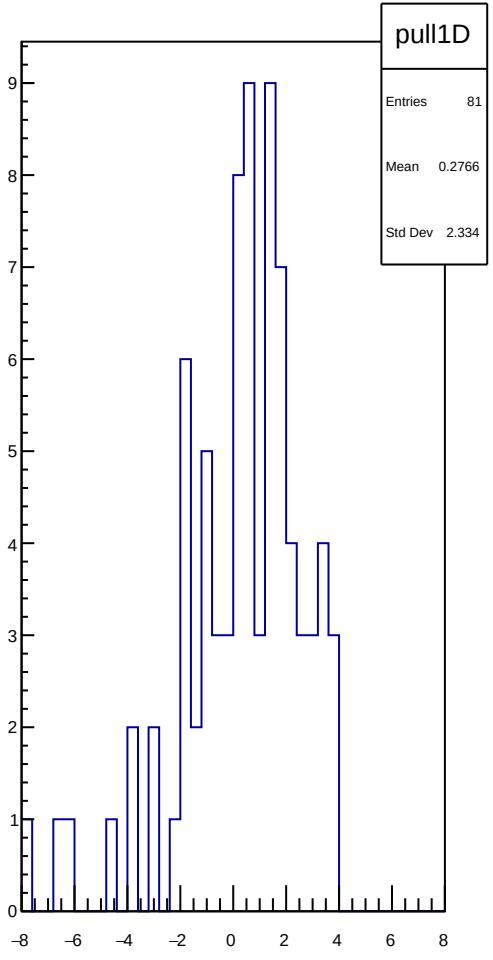

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 282.5 / 80
p0 55.7 ± 0.9895
pull
Entries 81
Mean 113.8
Std Dev 0

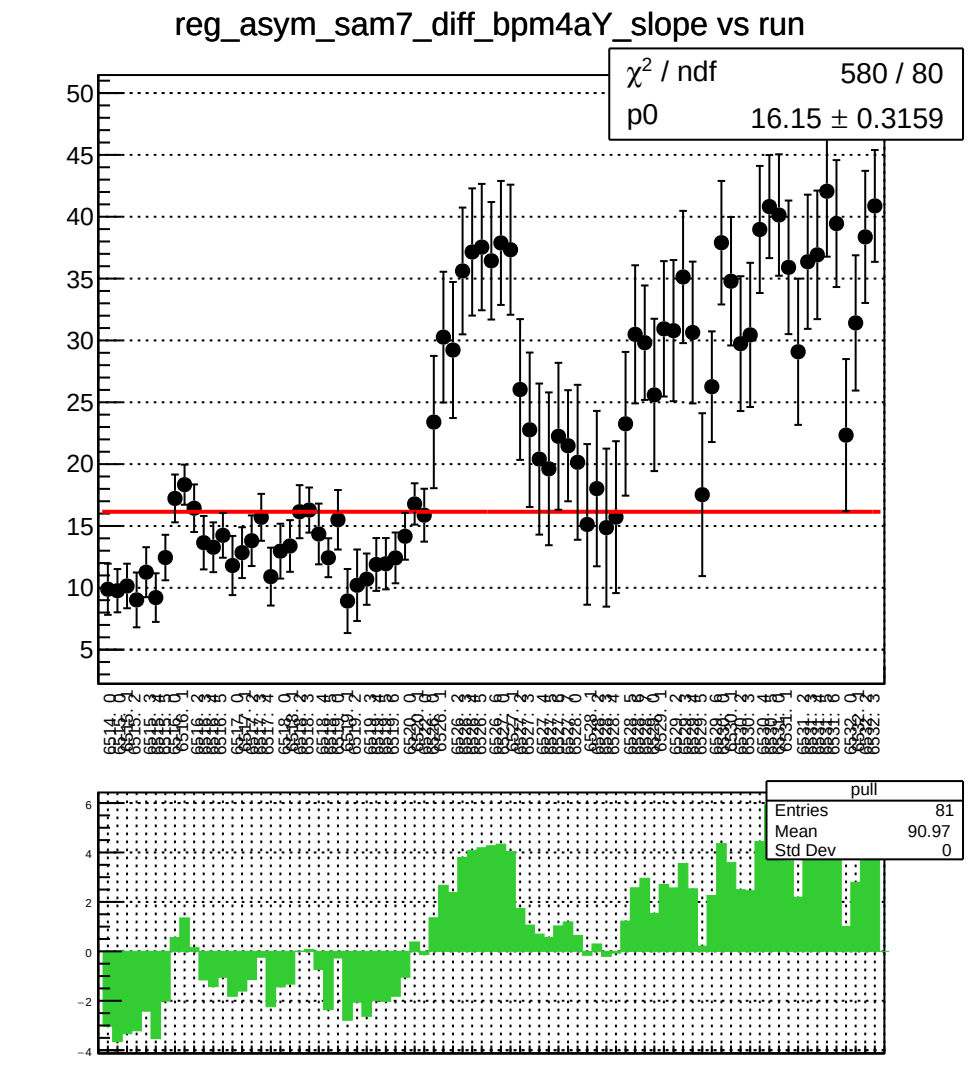

pull1D
Entries 81
Mean −0.501
Std Dev 1.799

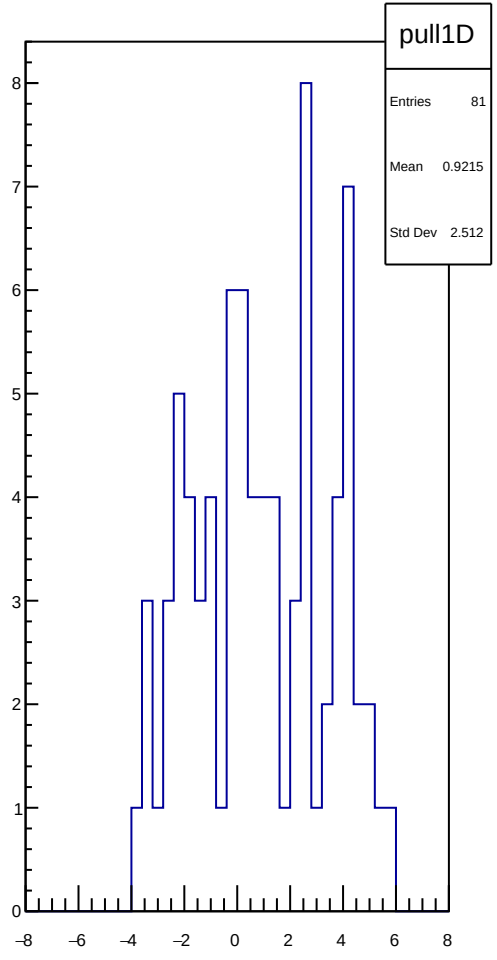

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 9.781 / 80
p0 −0.2005 ± 0.03516
pull
Entries 81
Mean −191.5
Std Dev 0

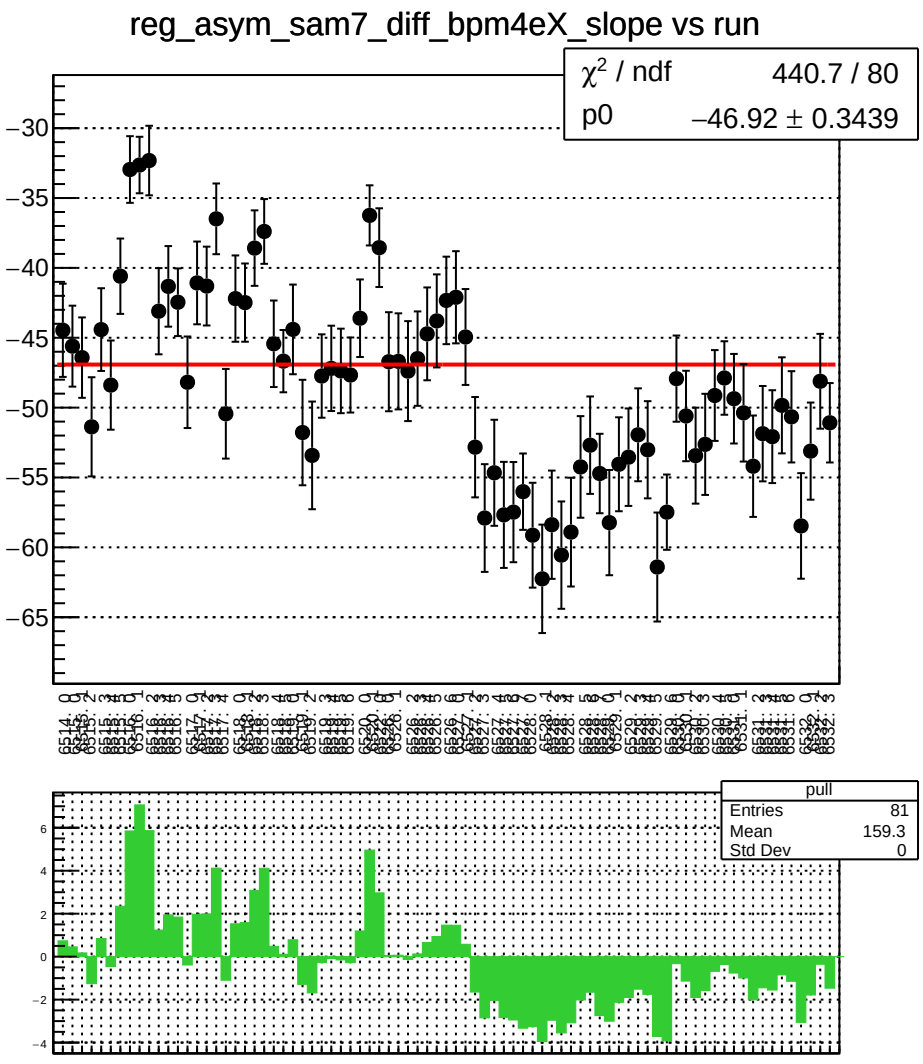

pull1D
Entries 81
Mean −0.007467
Std Dev 0.3474

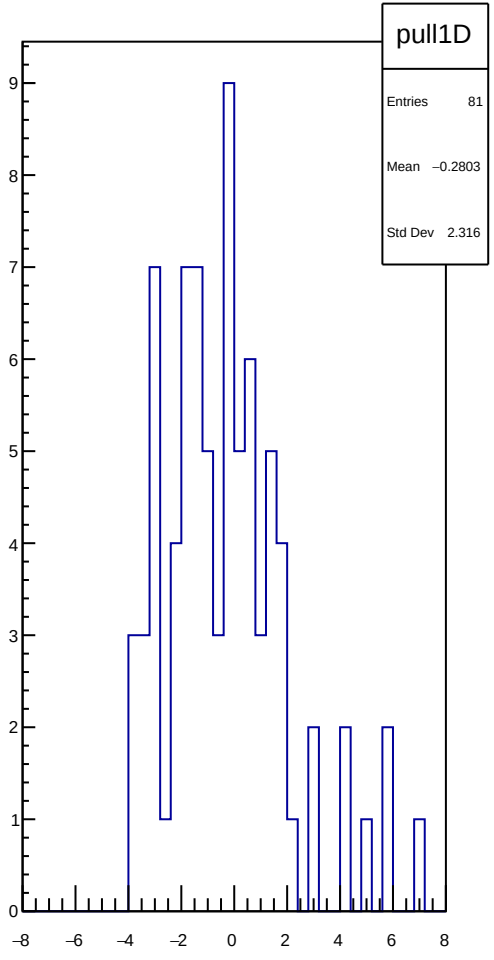

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 447.5 / 80
p0 9.62 ± 0.3297
pull
Entries 81
Mean 151.9
Std Dev 0

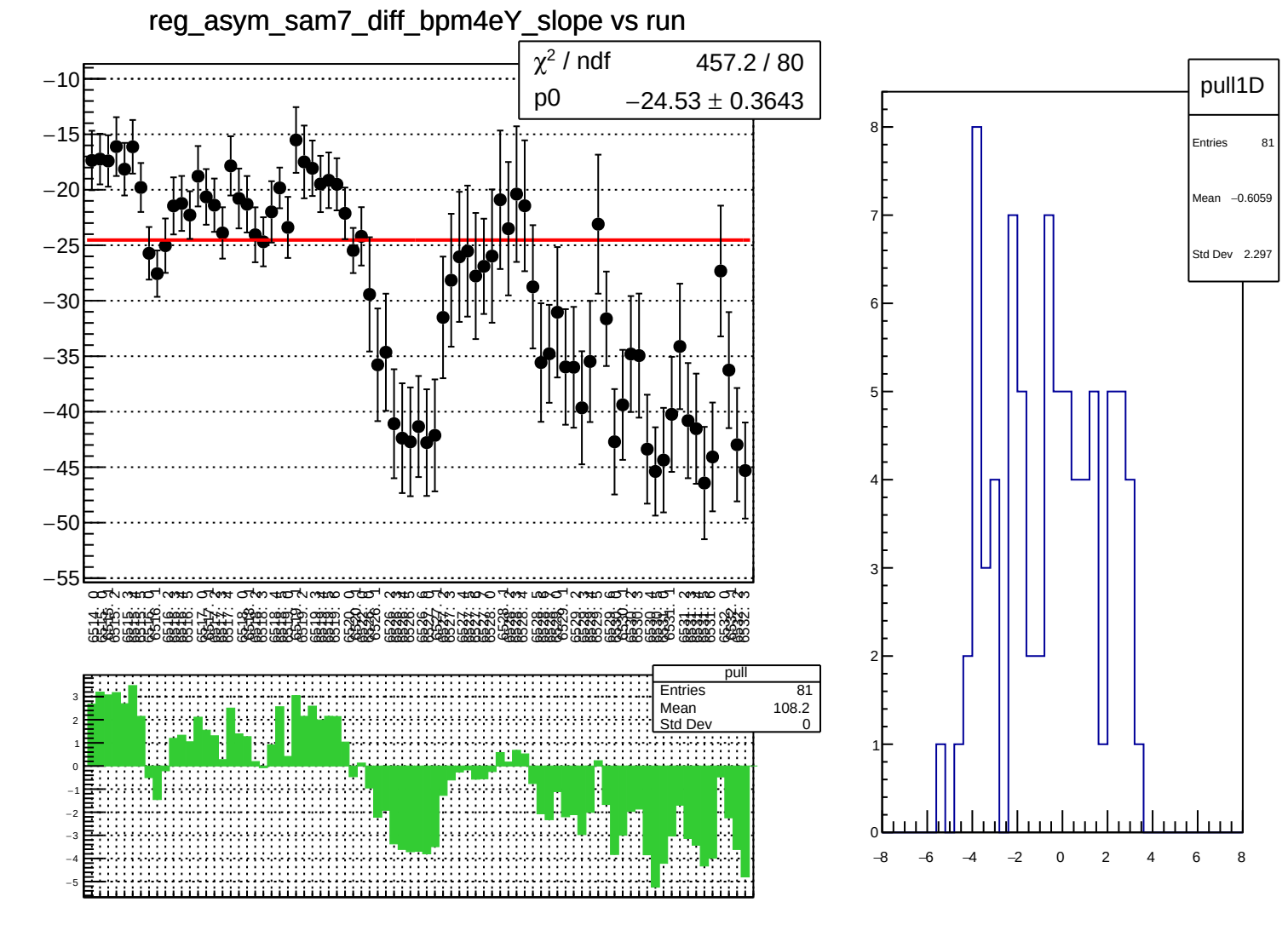

pull1D
Entries 81
Mean 0.2766
Std Dev 2.334

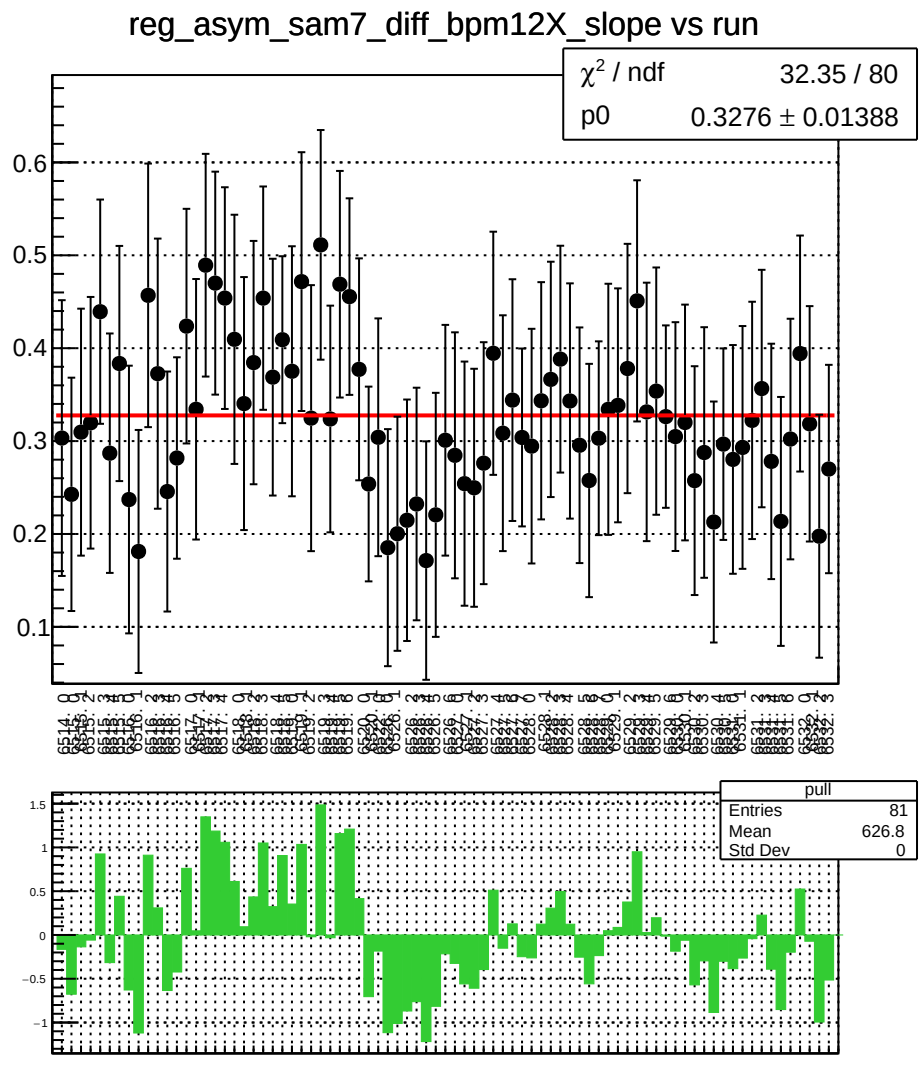

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 580 / 80
p0 16.15 ± 0.3159
pull
Entries 81
Mean 90.97
Std Dev 0

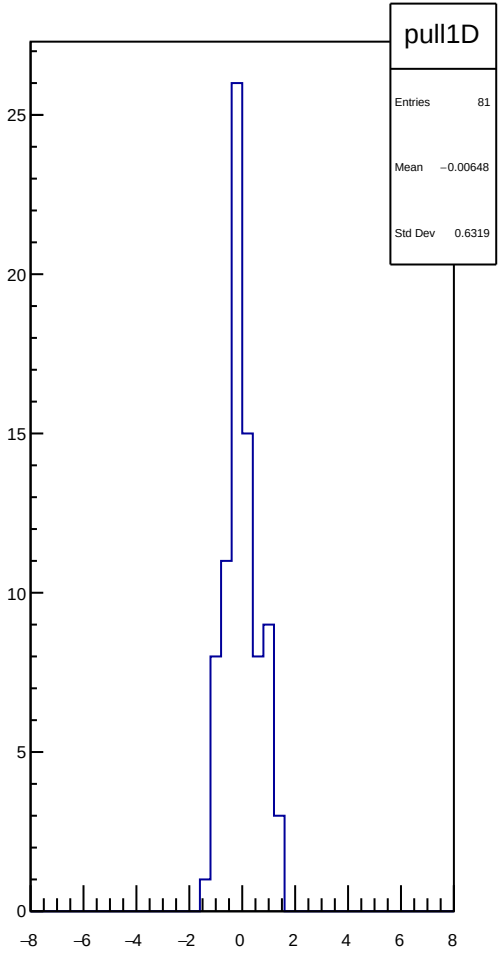

pull1D
Entries 81
Mean 0.9215
Std Dev 2.512

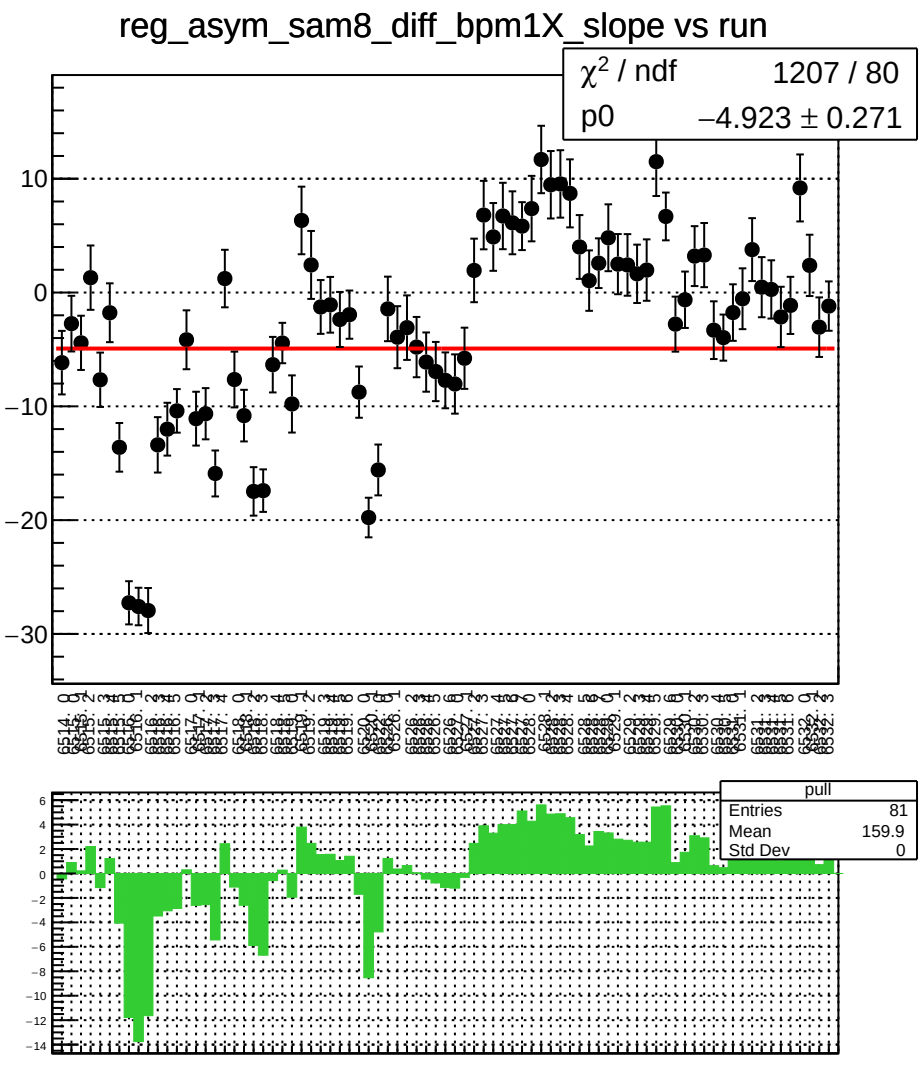

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 440.7 / 80
p0 −46.92 ± 0.3439
pull
Entries 81
Mean 159.3
Std Dev 0

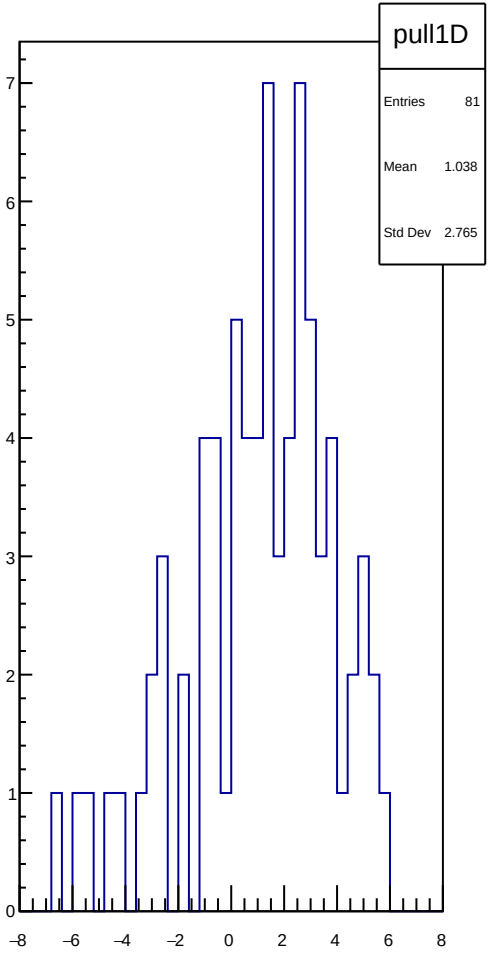

pull1D
Entries 81
Mean −0.2803
Std Dev 2.316

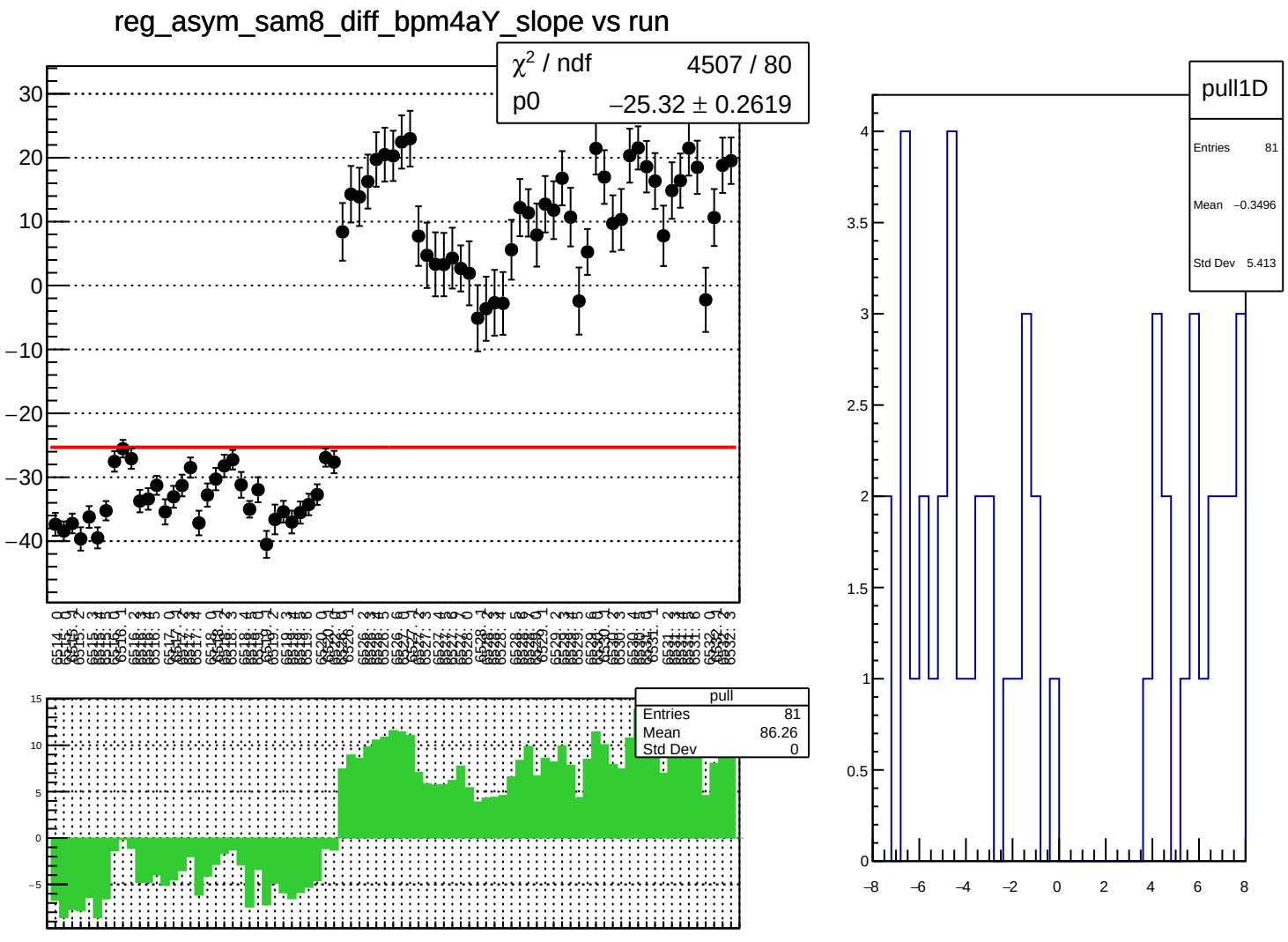

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 457.2 / 80
p0 −24.53 ± 0.3643
pull
Entries 81
Mean 108.2
Std Dev 0
pull1D
Entries 81
Mean −0.6059
Std Dev 2.297

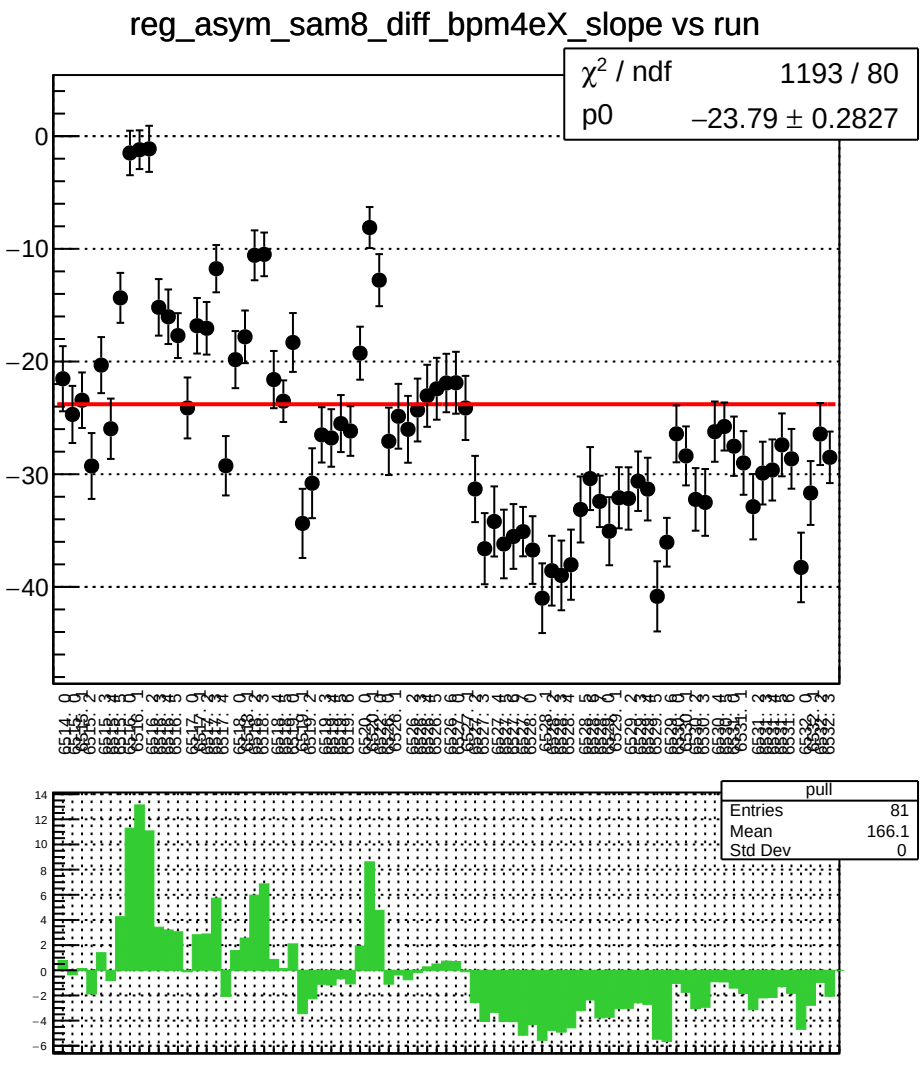

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 32.35 / 80
p0 0.3276 ± 0.01388
pull
Entries 81
Mean 626.8
Std Dev 0

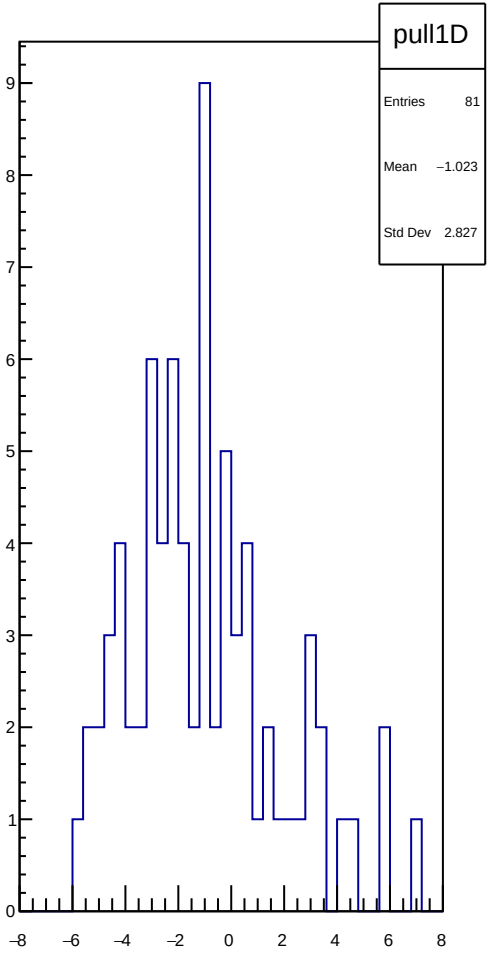

pull1D
Entries 81
Mean −0.00648
Std Dev 0.6319

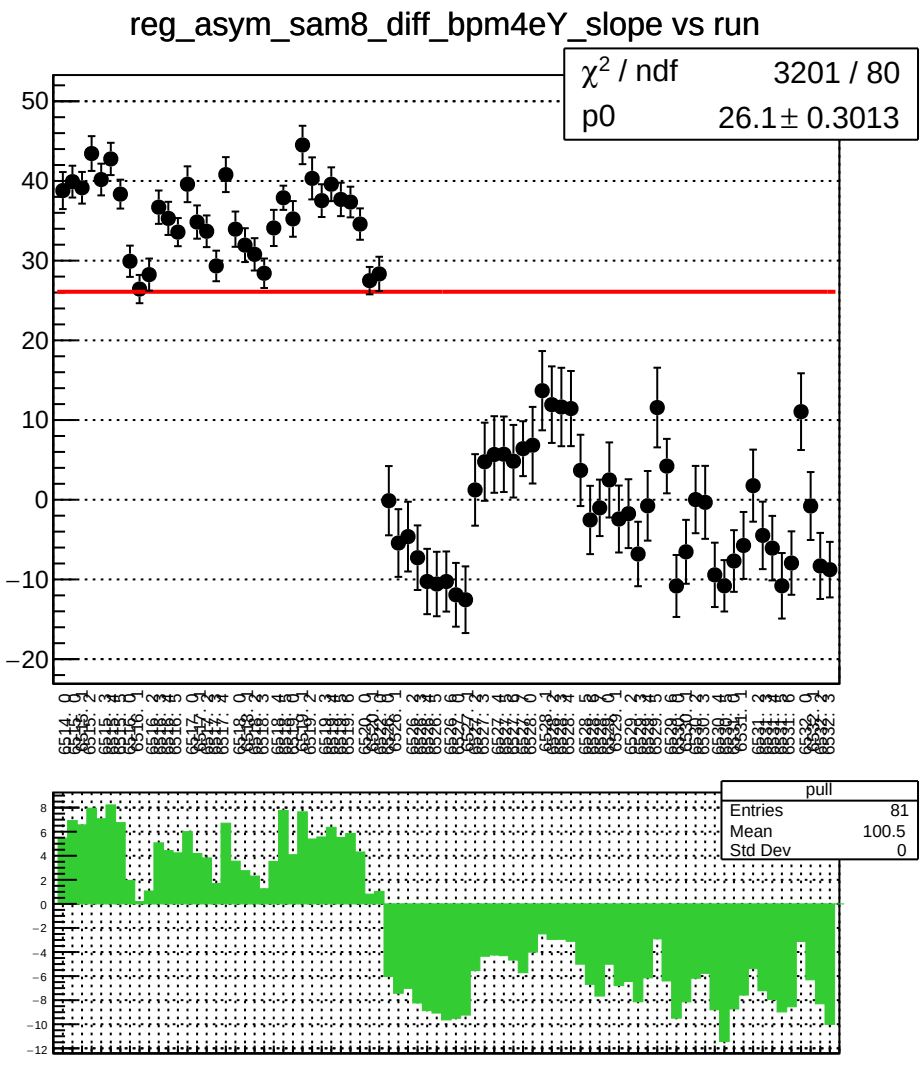

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 1207 / 80
p0 −4.923 ± 0.271
pull
Entries 81
Mean 159.9
Std Dev 0

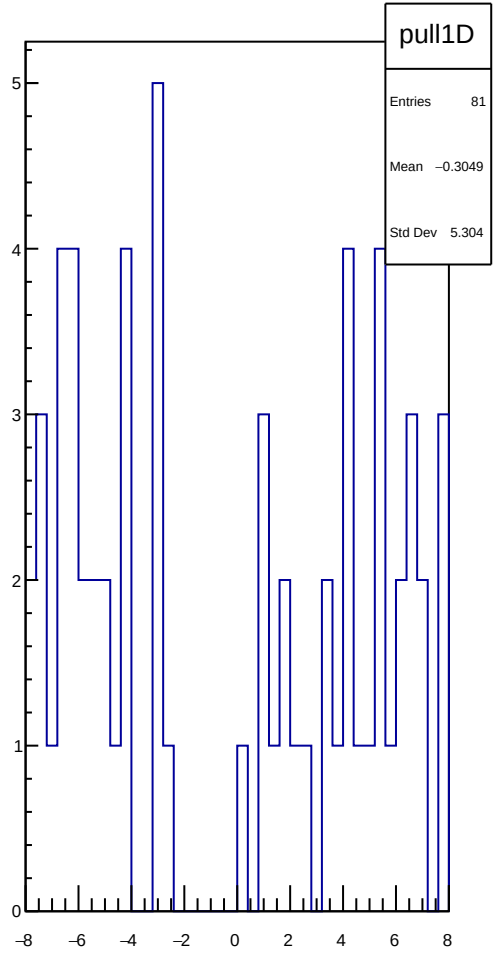

pull1D
Entries 81
Mean 1.038
Std Dev 2.765

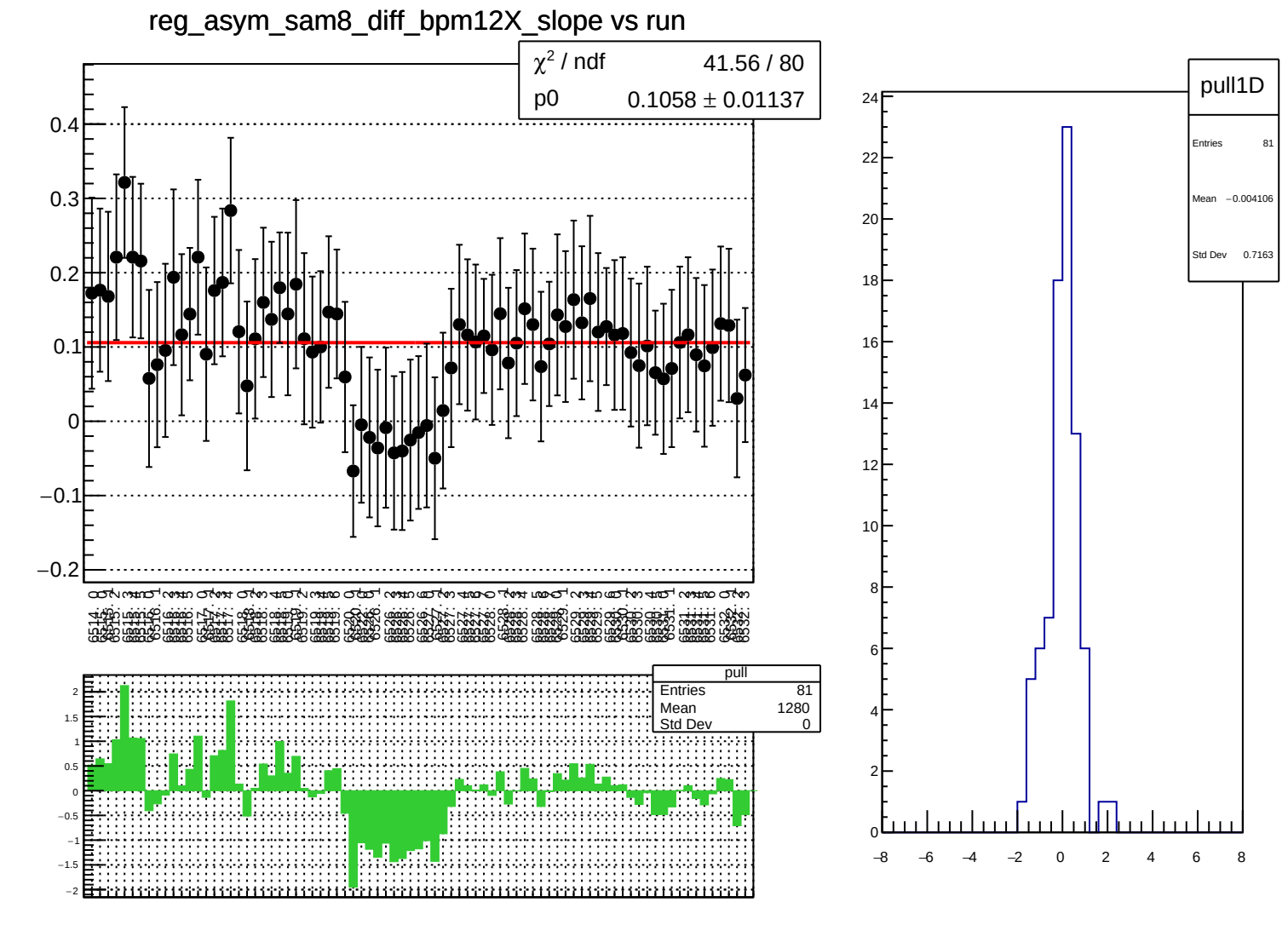

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 4507 / 80
p0 −25.32 ± 0.2619
pull
Entries 81
Mean 86.26
Std Dev 0
pull1D
Entries 81
Mean −0.3496
Std Dev 5.413

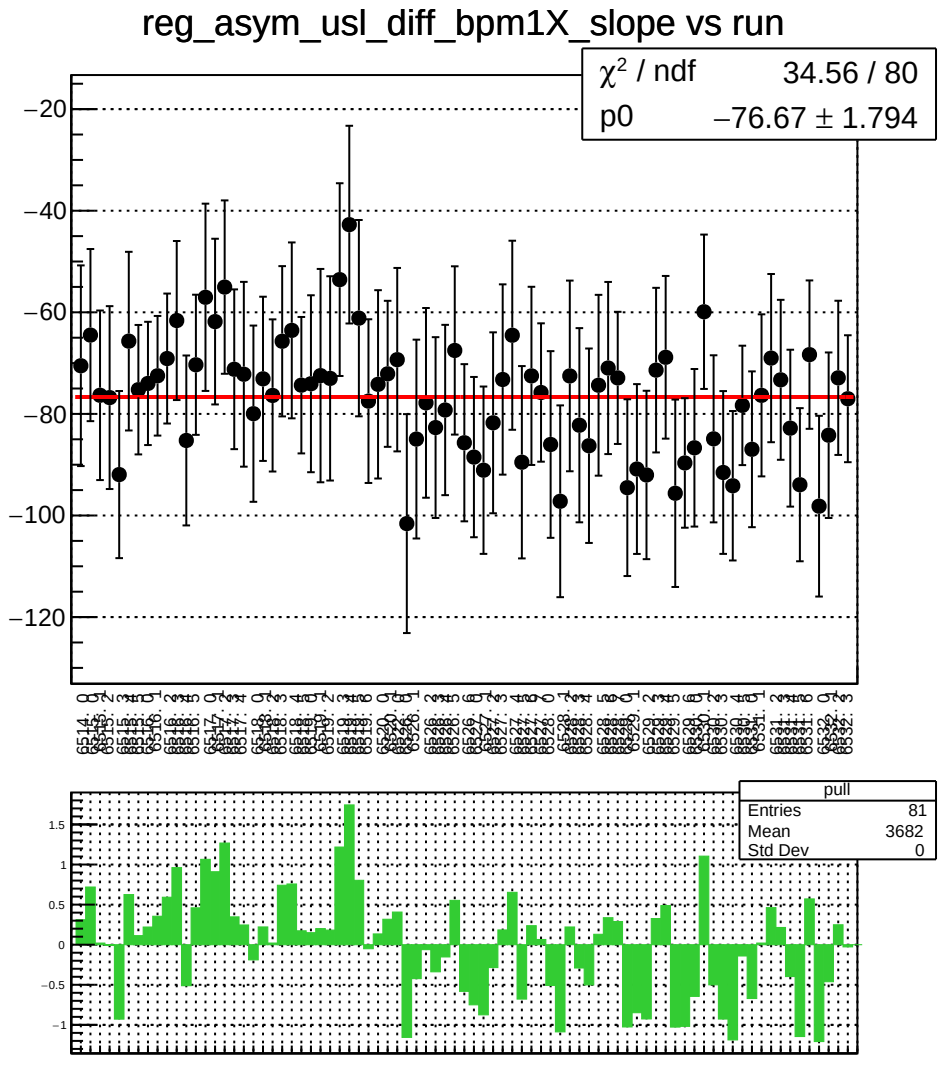

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 1193 / 80
p0 −23.79 ± 0.2827
pull
Entries 81
Mean 166.1
Std Dev 0

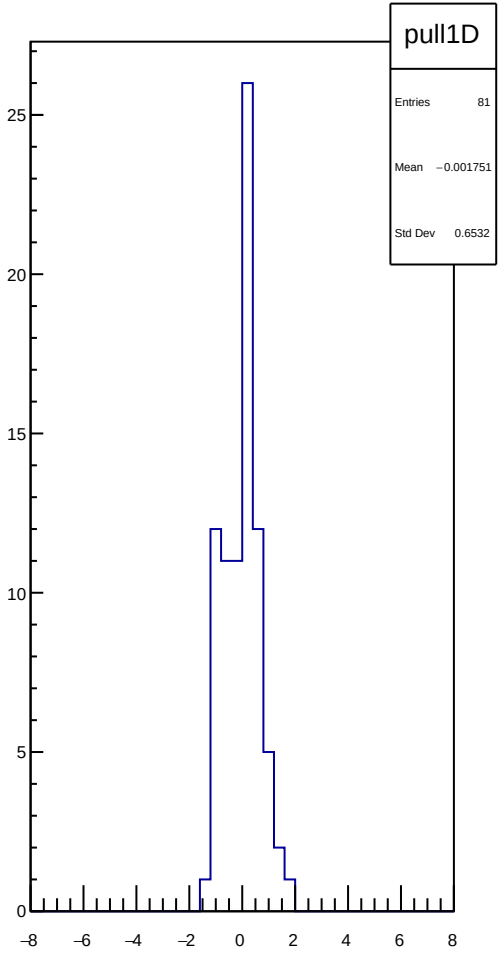

pull1D
Entries 81
Mean −1.023
Std Dev 2.827

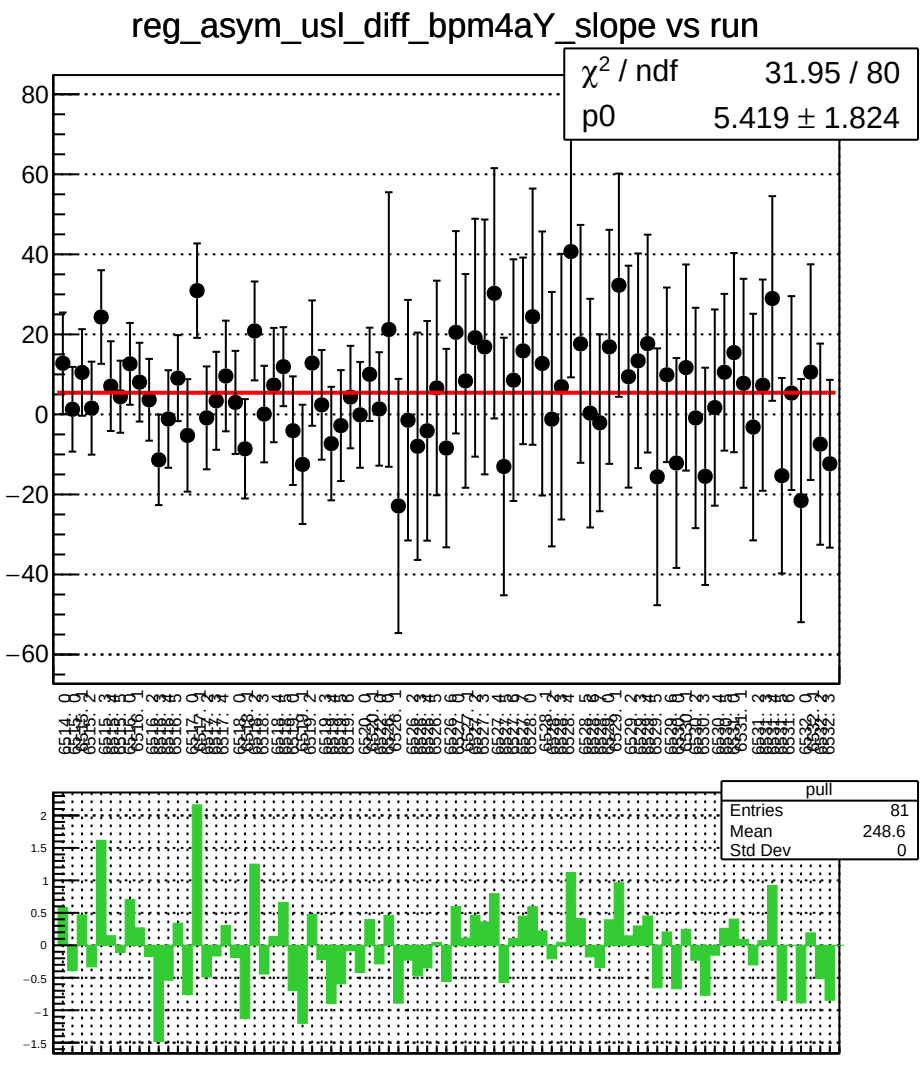

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 3201 / 80
p0 26.1 ± 0.3013
pull
Entries 81
Mean 100.5
Std Dev 0

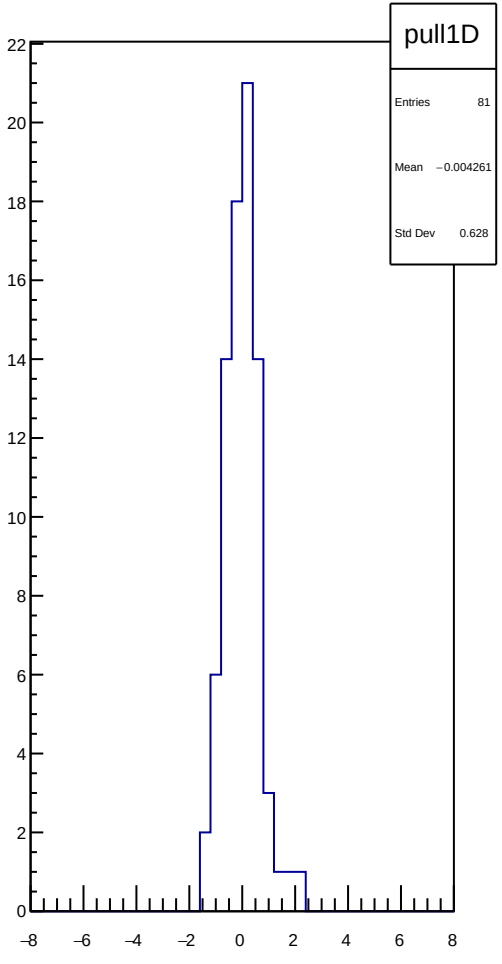

pull1D
Entries 81
Mean −0.3049
Std Dev 5.304

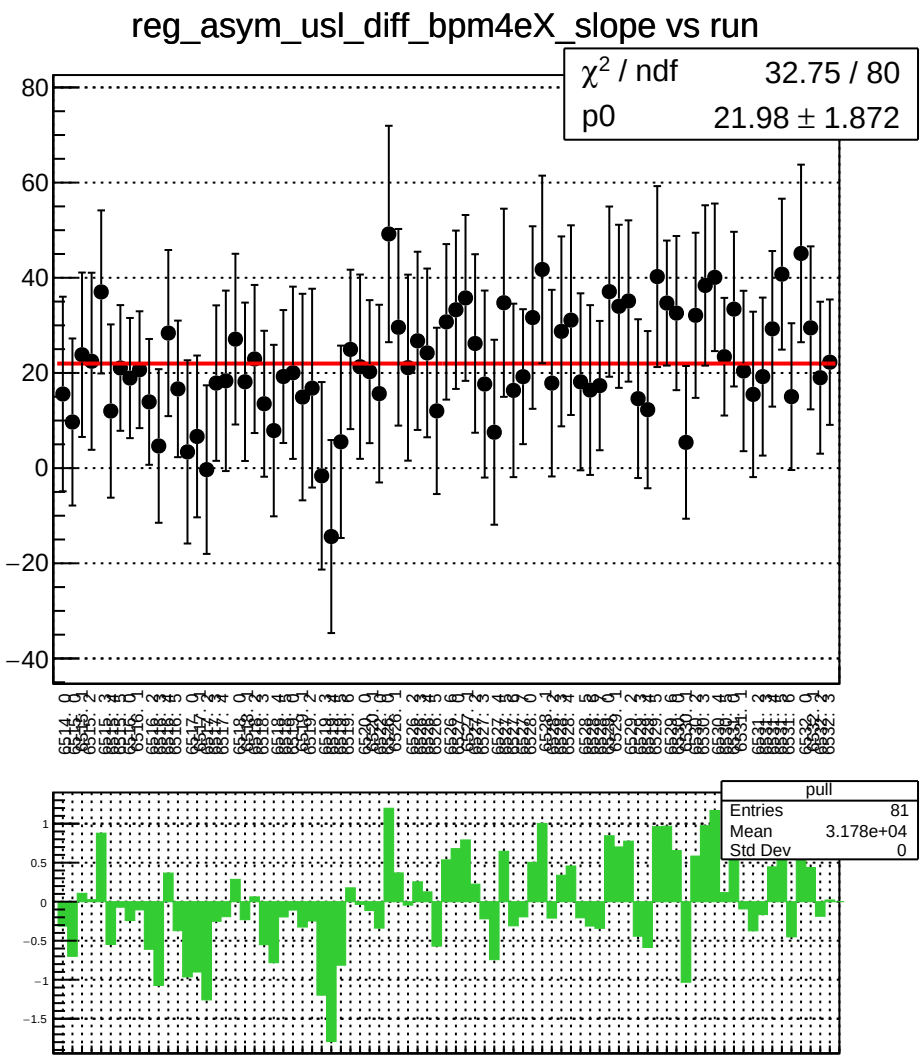

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 41.56 / 80
p0 0.1058 ± 0.01137
pull
Entries 81
Mean 1280
Std Dev 0
pull1D
Entries 81
Mean −0.004106
Std Dev 0.7163

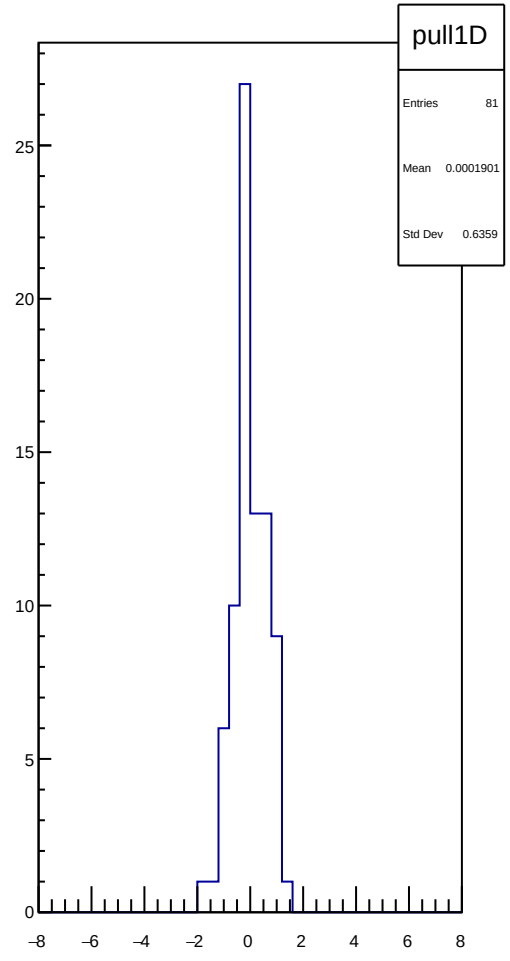

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 34.56 / 80
p0 −76.67 ± 1.794
pull
Entries 81
Mean 3682
Std Dev 0

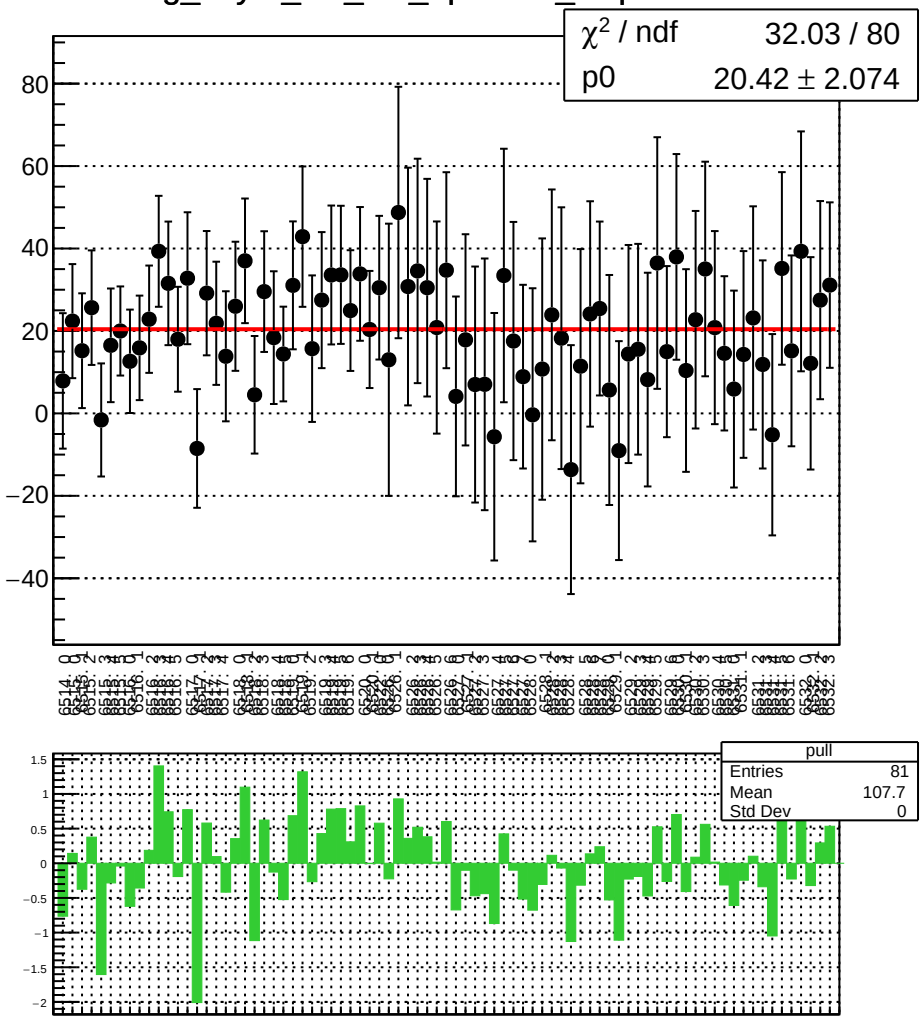

pull1D
Entries 81
Mean −0.001751
Std Dev 0.6532

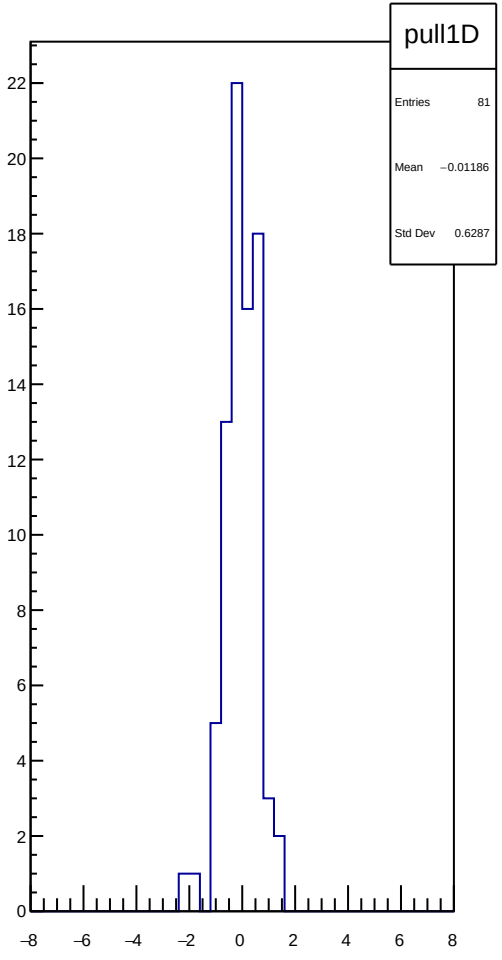

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 31.95 / 80
p0 5.419 ± 1.824
pull
Entries 81
Mean 248.6
Std Dev 0

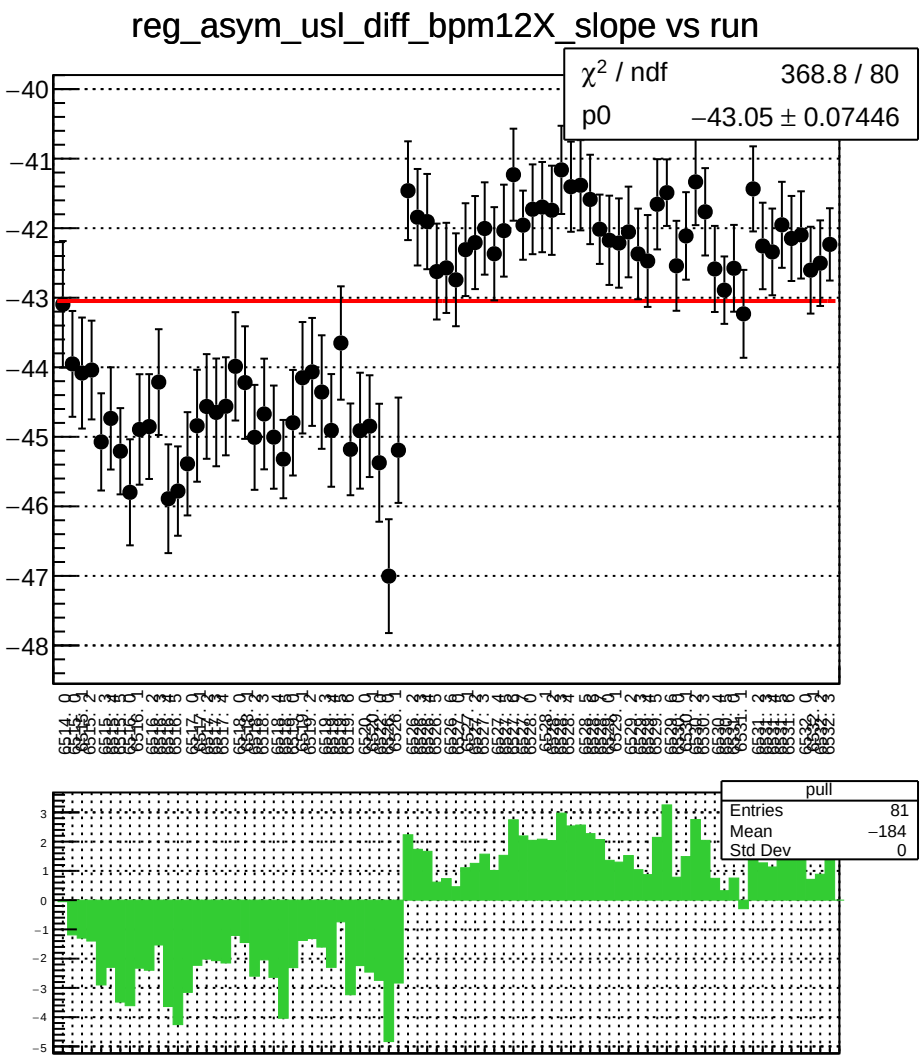

pull1D
Entries 81
Mean −0.004261
Std Dev 0.628

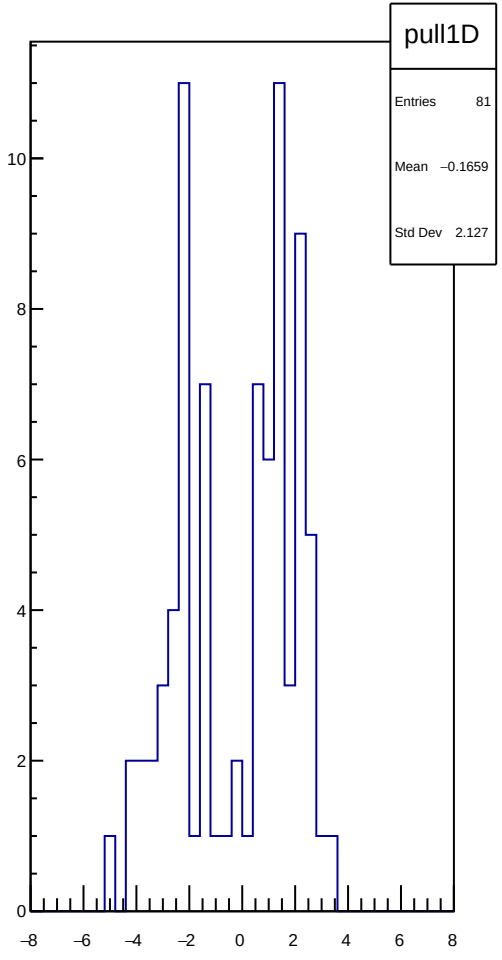

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 32.75 / 80
p0 21.98 ± 1.872
pull
Entries 81
Mean 3.178e+04
Std Dev 0

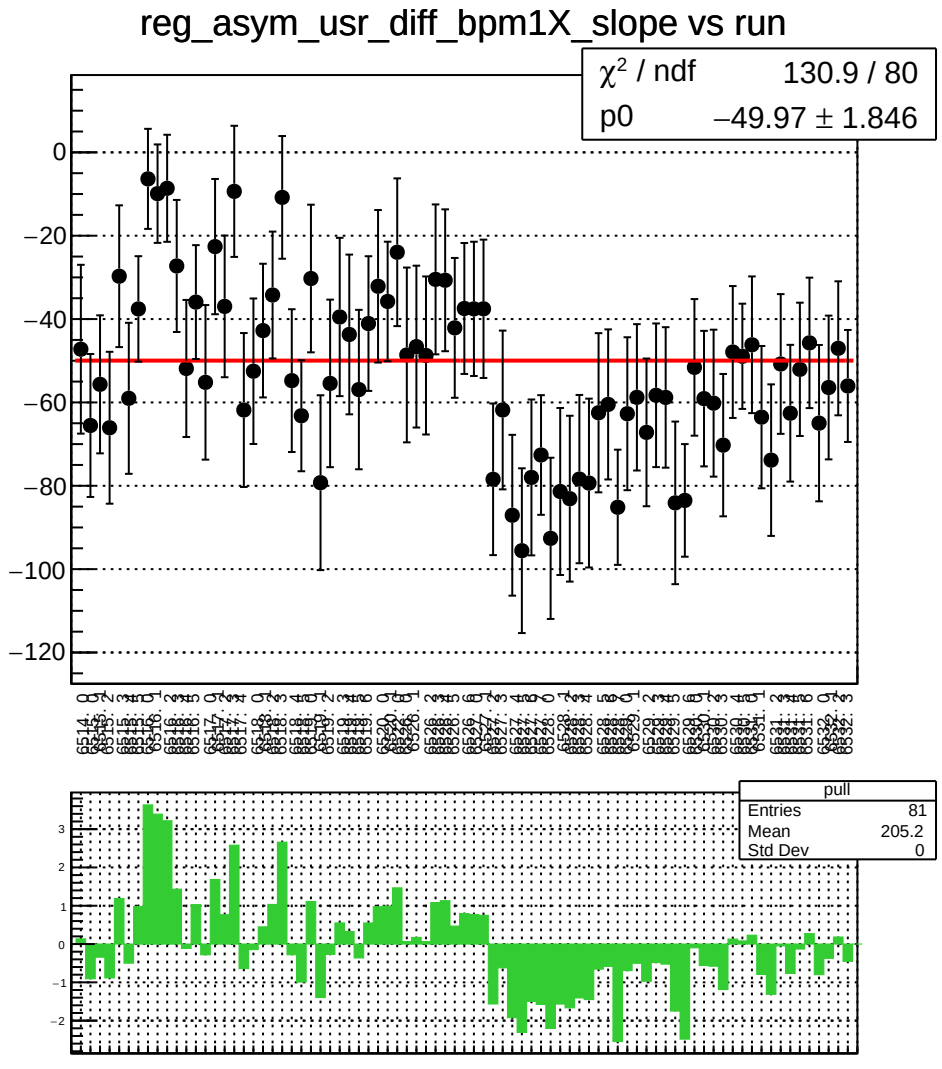

pull1D
Entries 81
Mean 0.0001901
Std Dev 0.6359

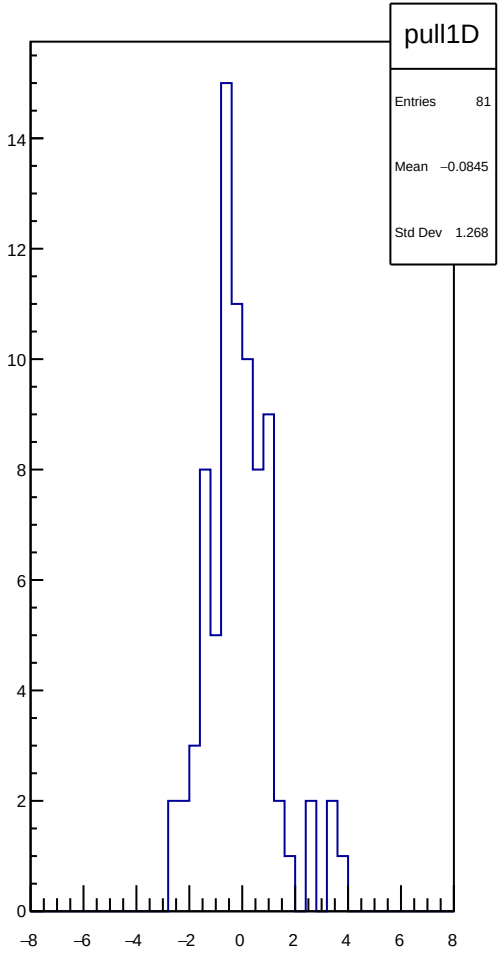

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 32.03 / 80
p0 20.42 ± 2.074
pull
Entries 81
Mean 107.7
Std Dev 0

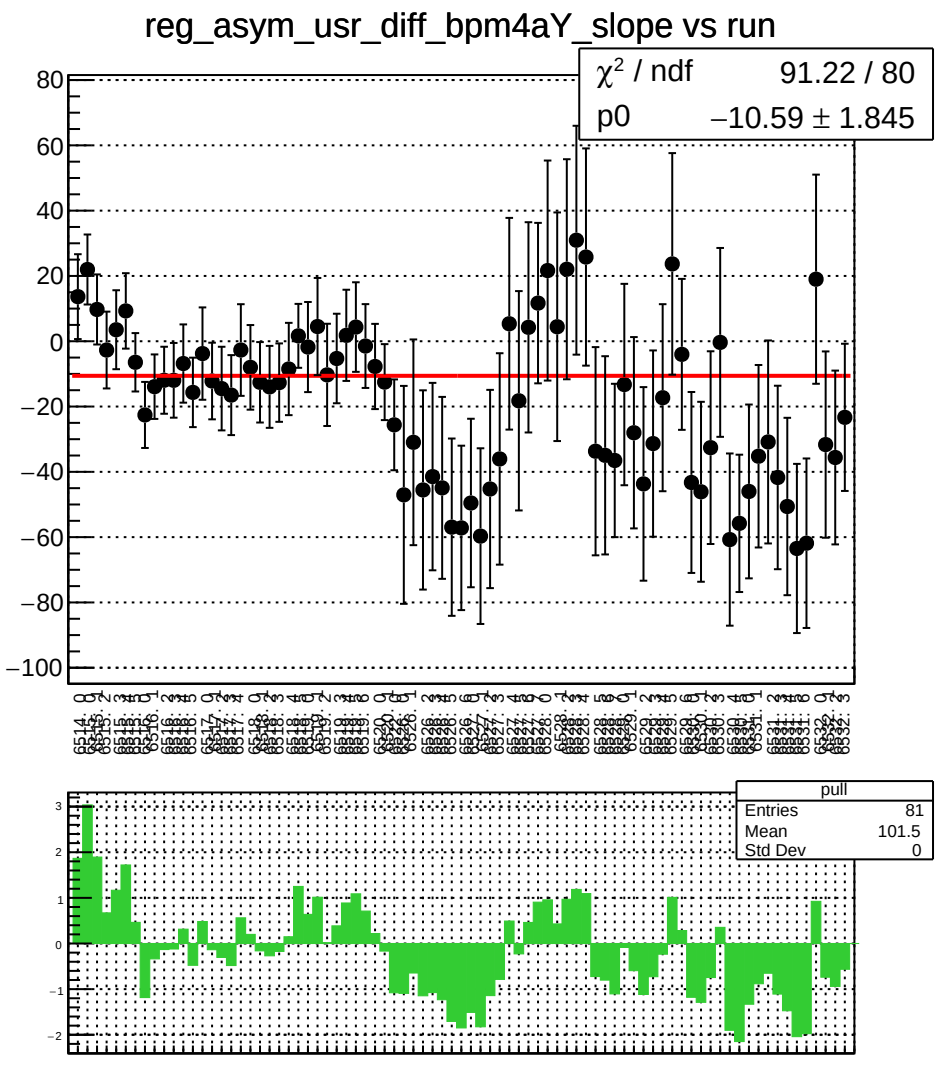

pull1D
Entries 81
Mean −0.01186
Std Dev 0.6287

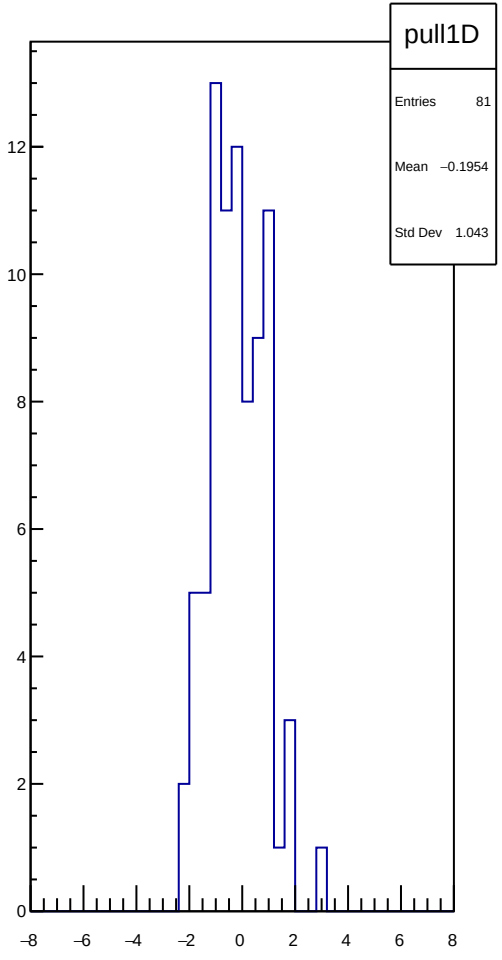

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 368.8 / 80
p0 −43.05 ± 0.07446
pull
Entries 81
Mean −184
Std Dev 0

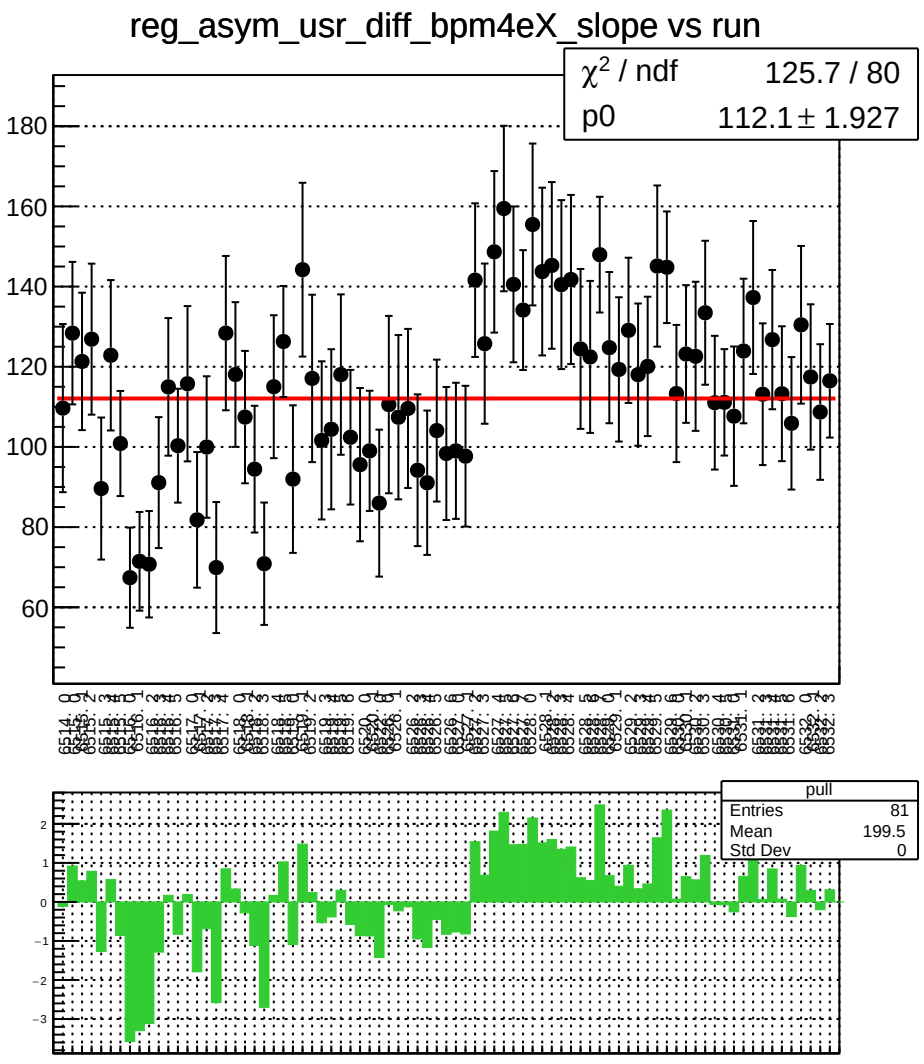

pull1D
Entries 81
Mean −0.1659
Std Dev 2.127

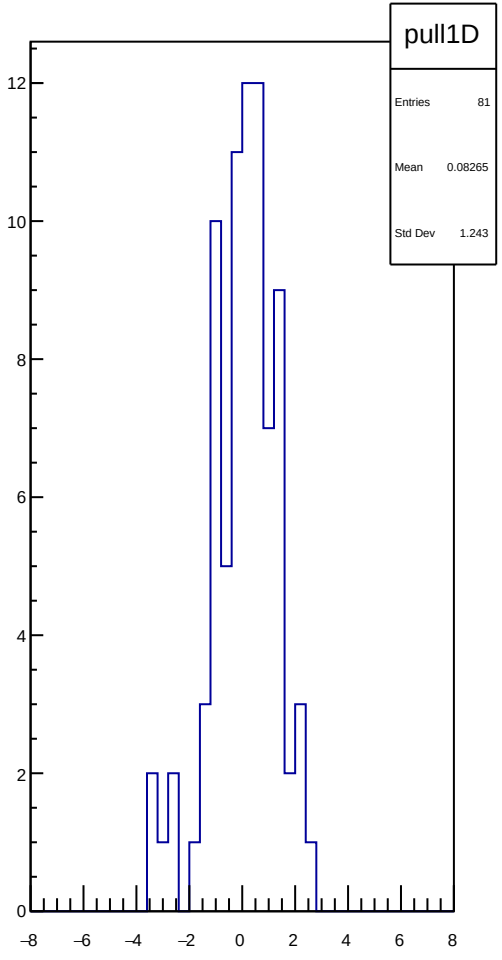

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 130.9 / 80
p0 −49.97 ± 1.846
pull
Entries 81
Mean 205.2
Std Dev 0

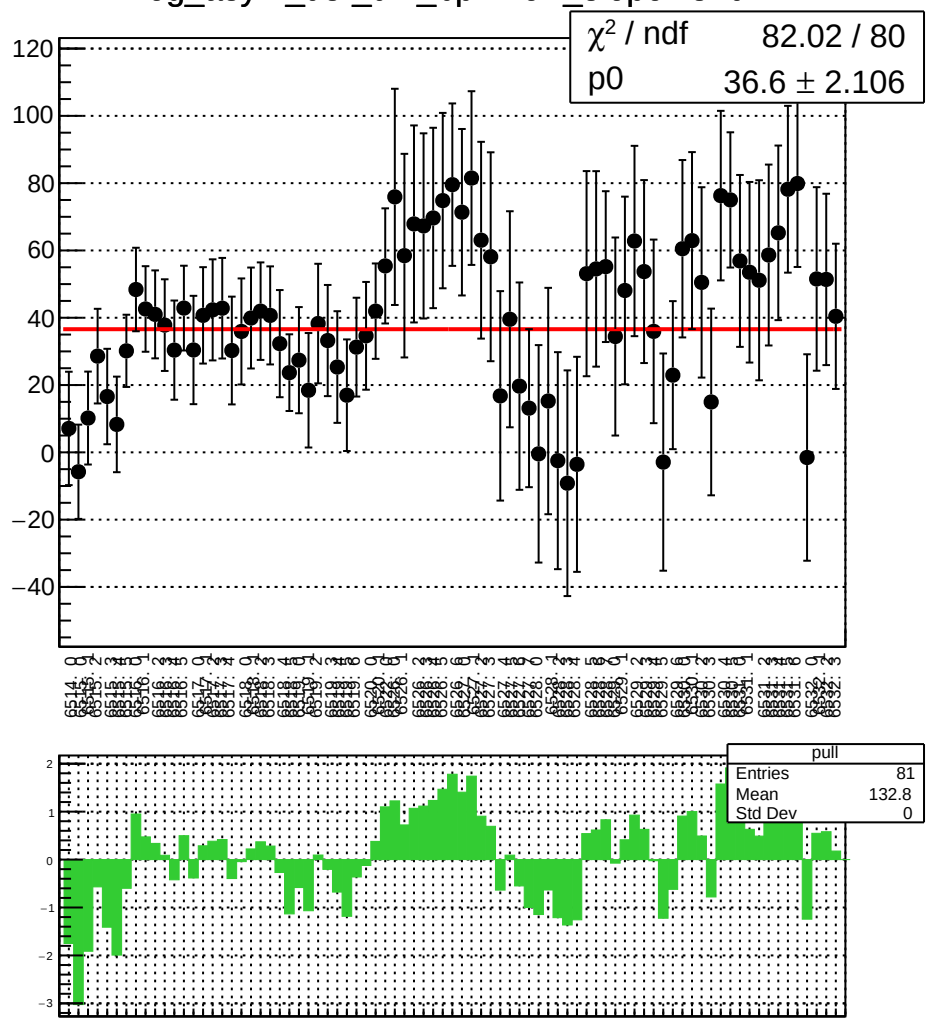

pull1D
Entries 81
Mean −0.0845
Std Dev 1.268

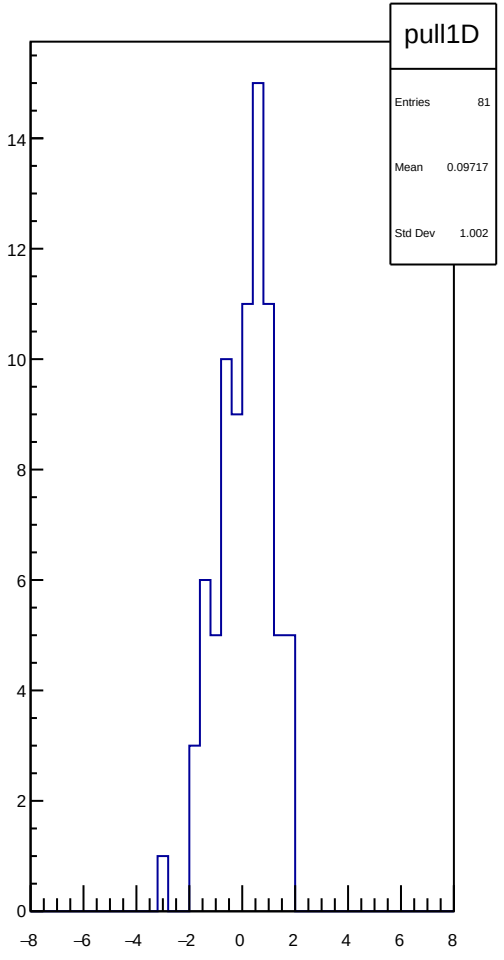

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 91.22 / 80
p0 −10.59 ± 1.845
pull
Entries 81
Mean 101.5
Std Dev 0

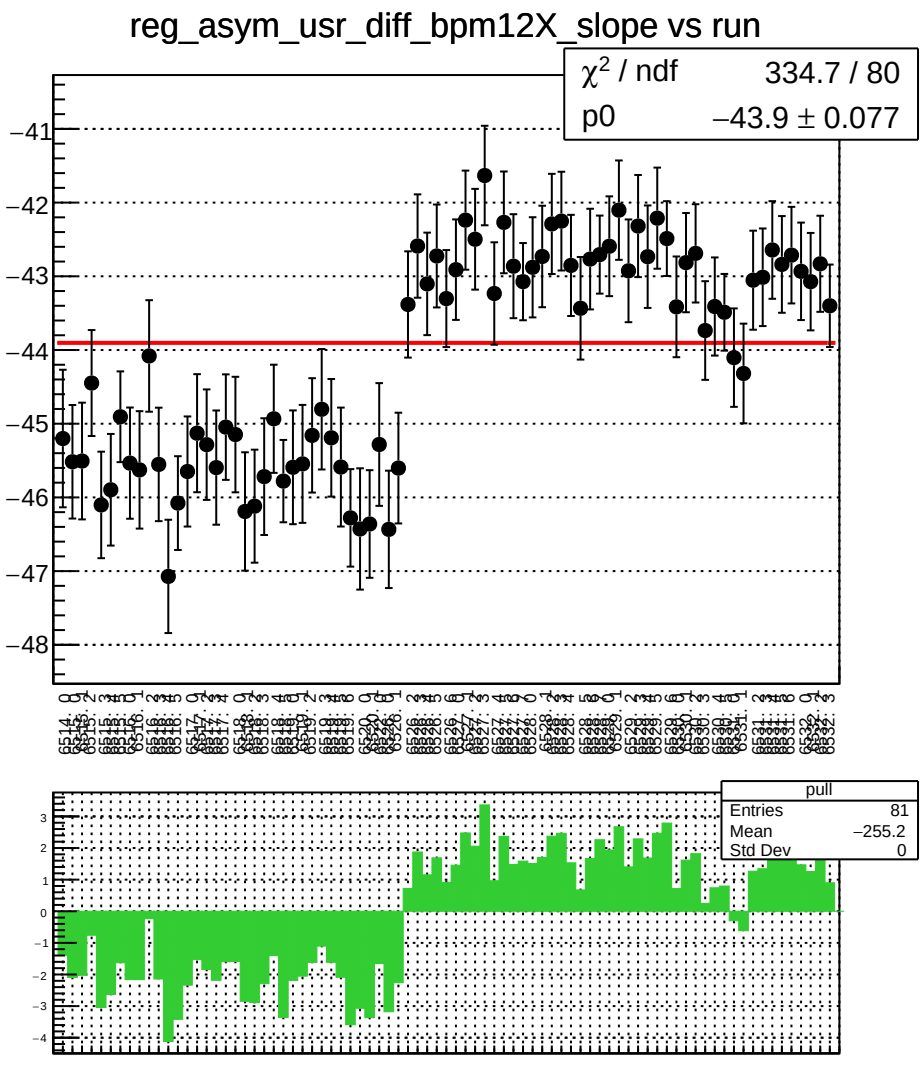

pull1D
Entries 81
Mean −0.1954
Std Dev 1.043

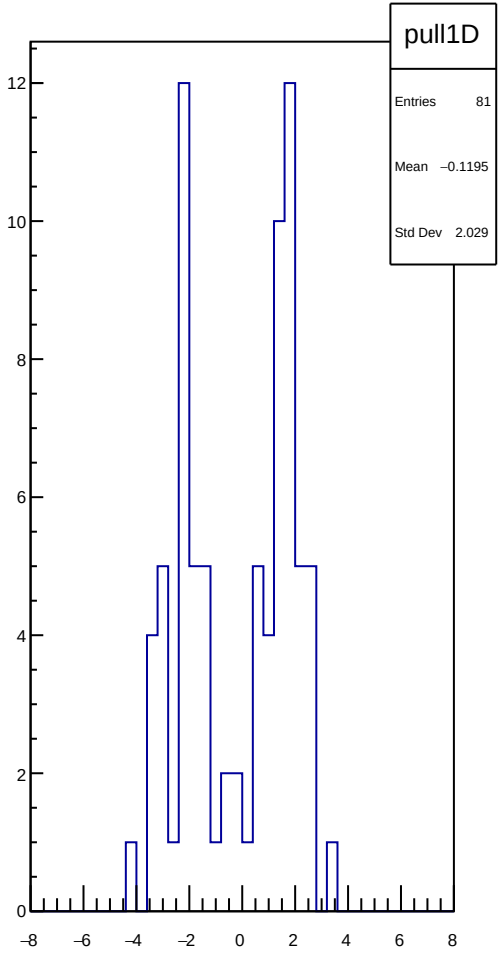

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 125.7 / 80
p0 112.1 ± 1.927
pull
Entries 81
Mean 199.5
Std Dev 0

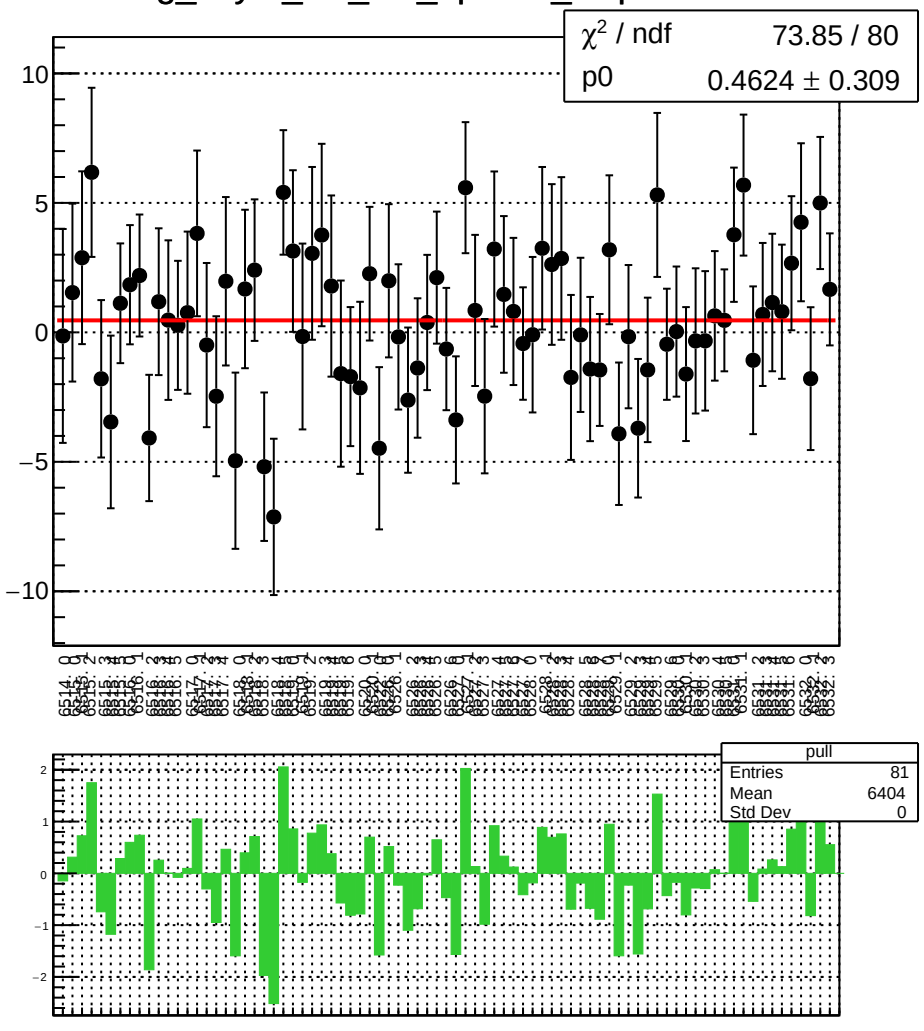

pull1D
Entries 81
Mean 0.08265
Std Dev 1.243

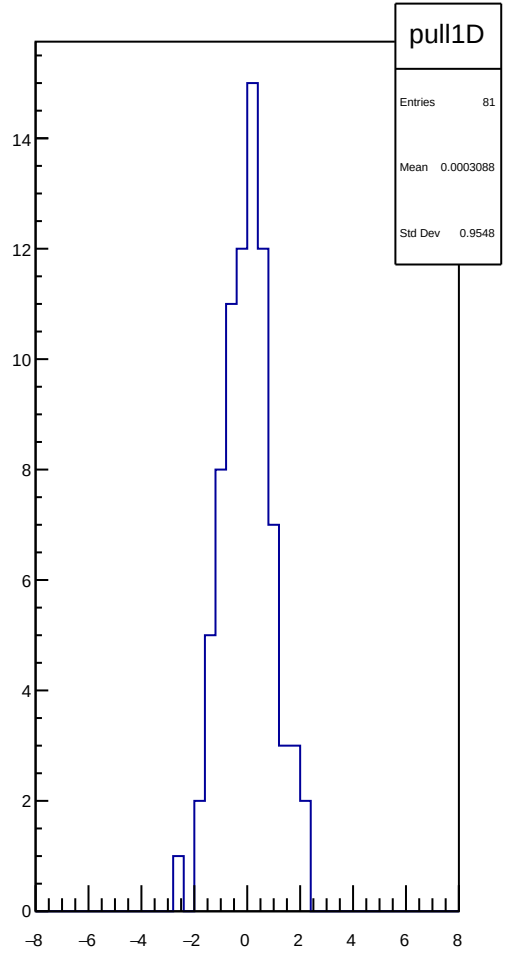

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 82.02 / 80
p0 36.6 ± 2.106
pull
Entries 81
Mean 132.8
Std Dev 0

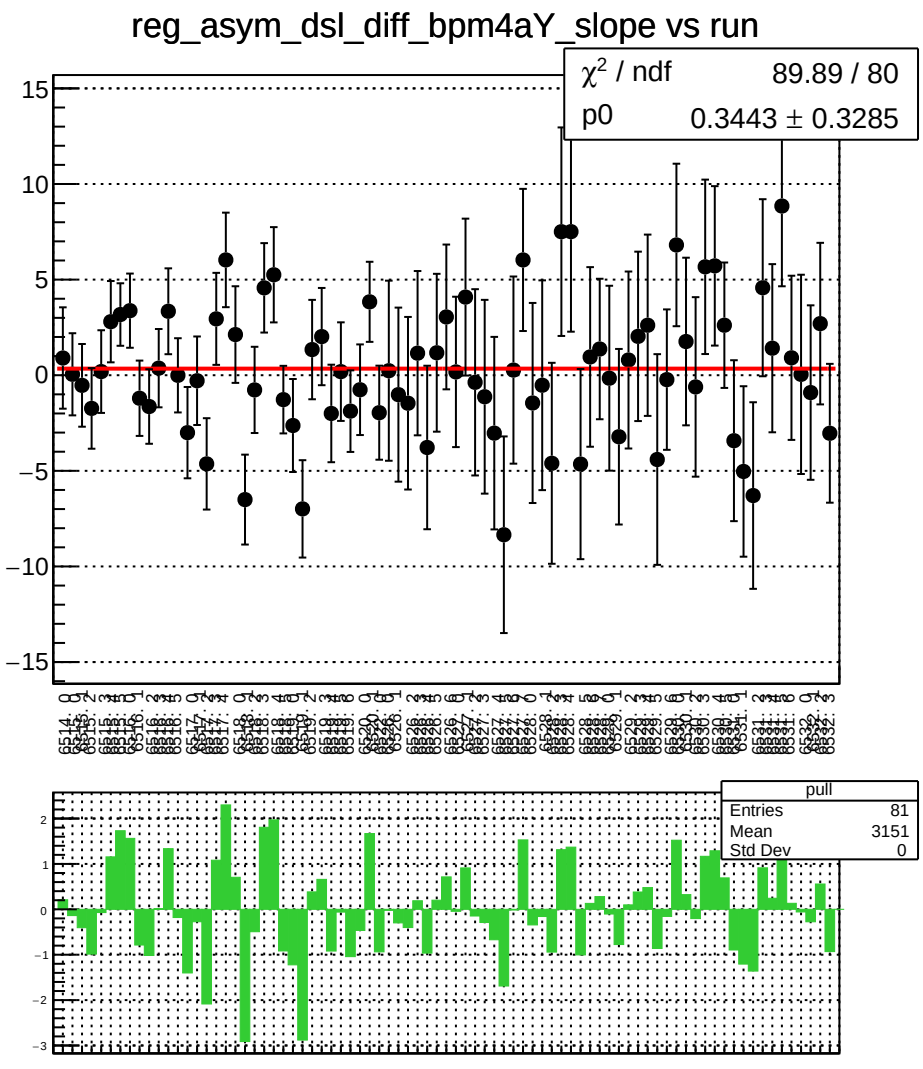

pull1D
Entries 81
Mean 0.09717
Std Dev 1.002

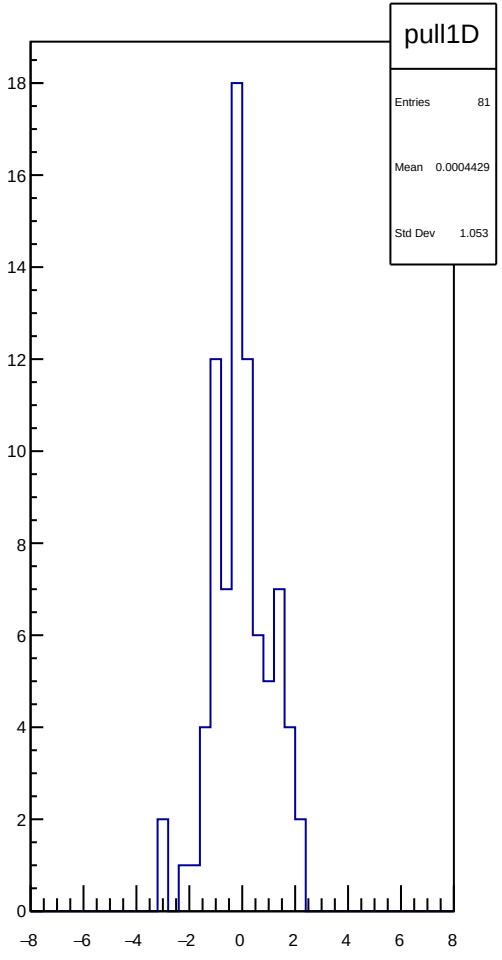

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 334.7 / 80
p0 −43.9 ± 0.077
pull
Entries 81
Mean −255.2
Std Dev 0

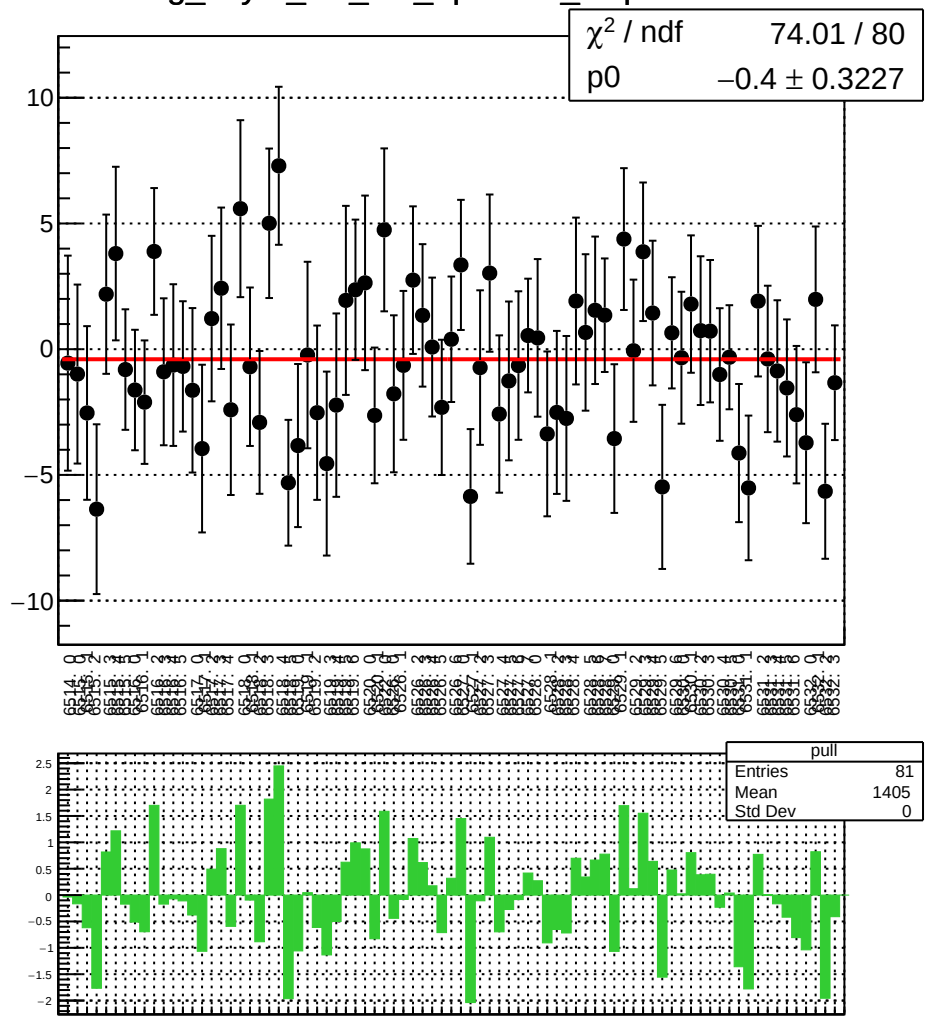

pull1D
Entries 81
Mean −0.1195
Std Dev 2.029

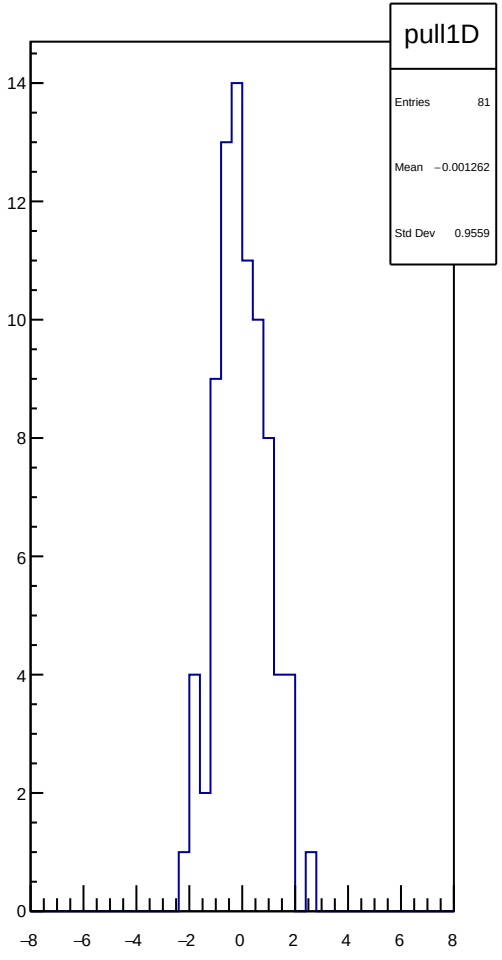

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 73.85 / 80
p0 0.4624 ± 0.309
pull
Entries 81
Mean 6404
Std Dev 0

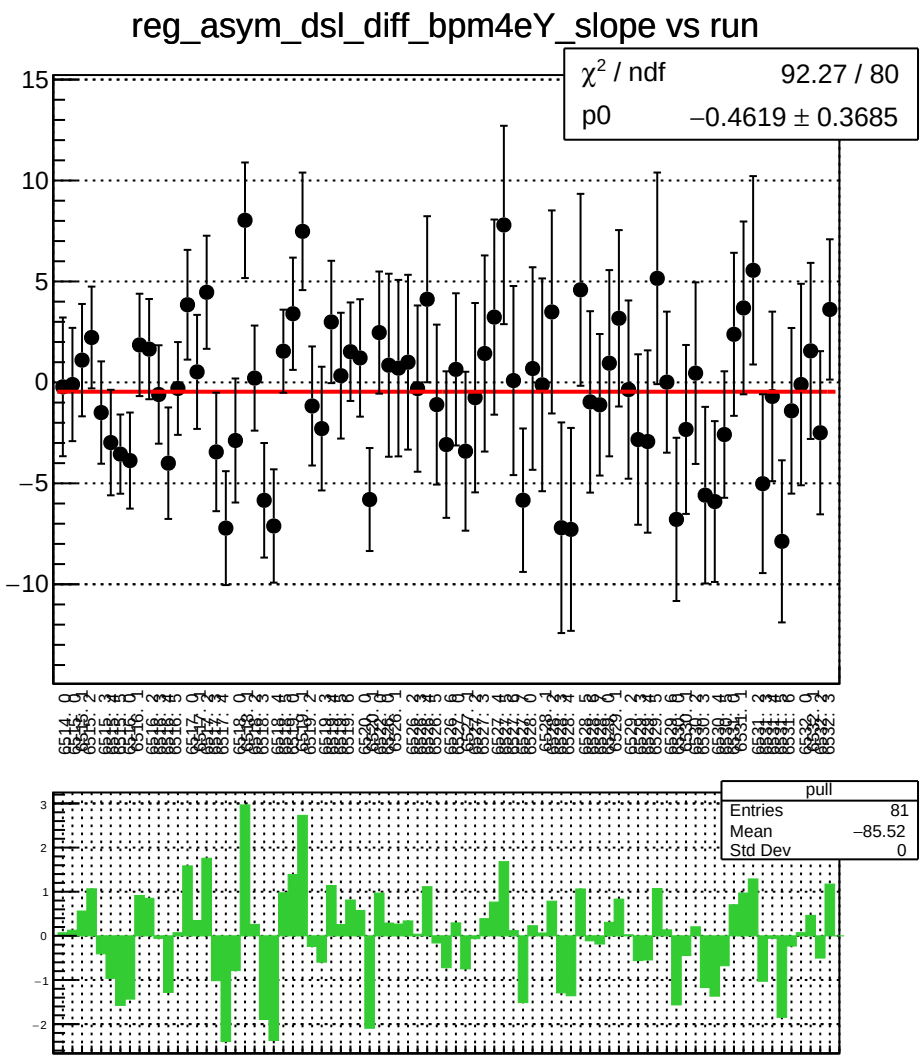

pull1D
Entries 81
Mean 0.0003088
Std Dev 0.9548

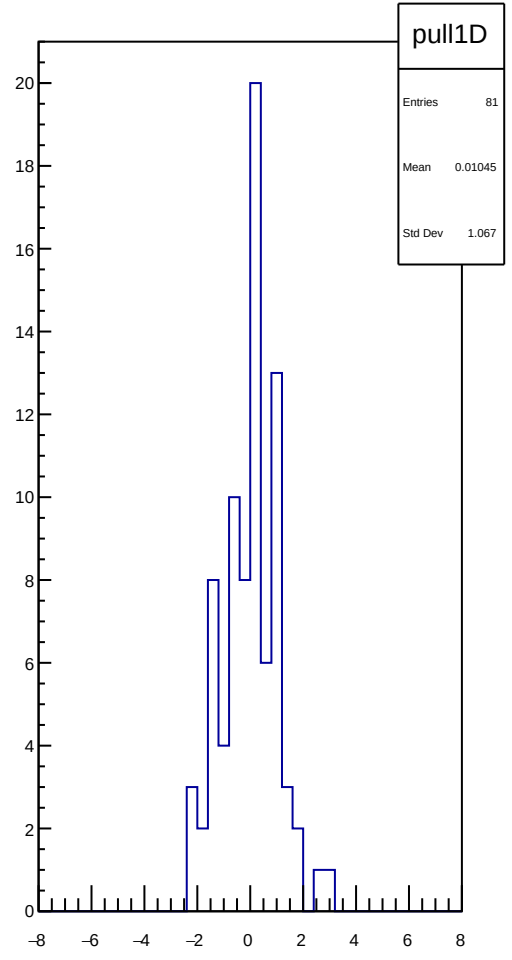

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 89.89 / 80
p0 0.3443 ± 0.3285
pull
Entries 81
Mean 3151
Std Dev 0

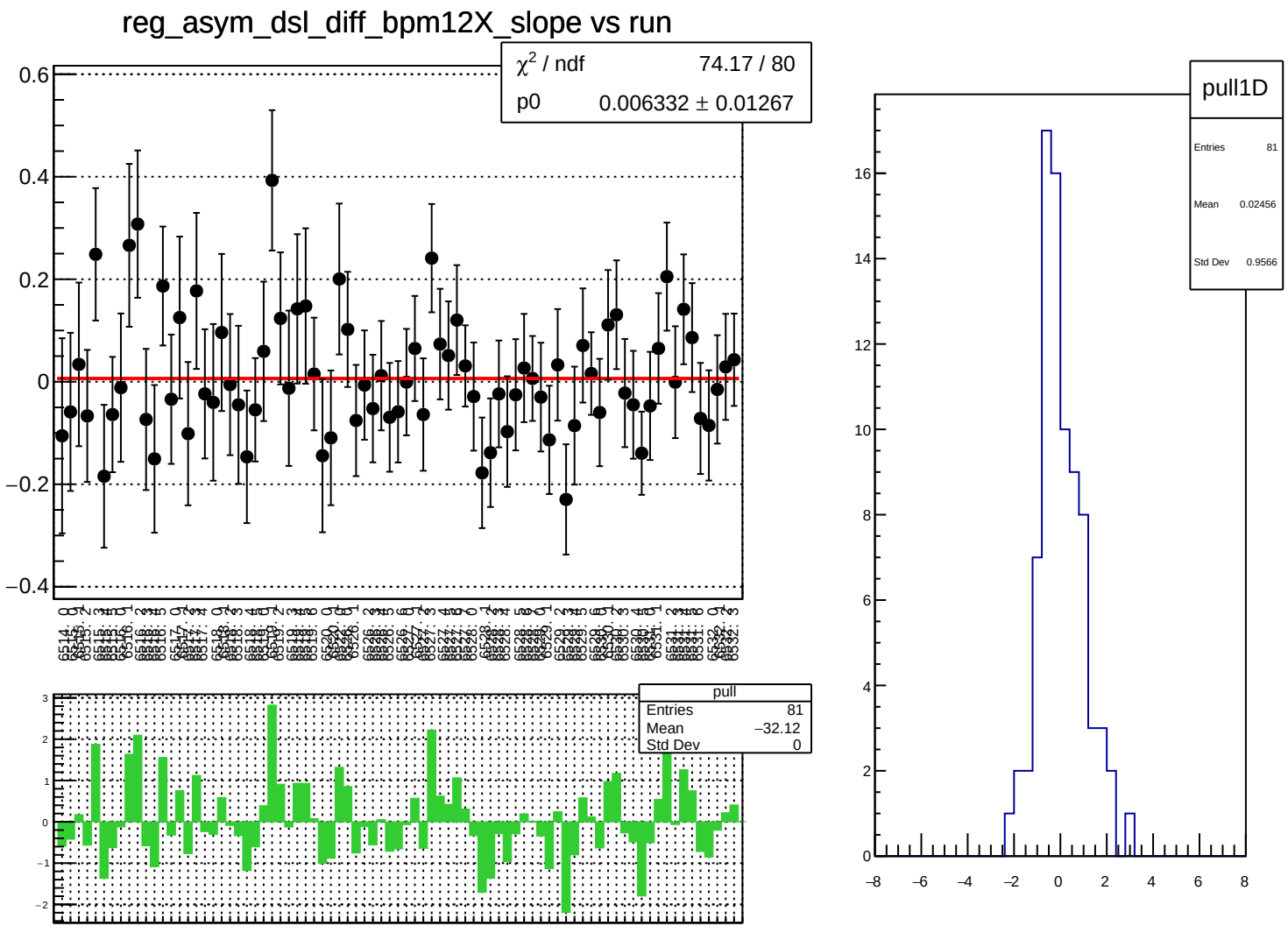

pull1D
Entries 81
Mean 0.0004429
Std Dev 1.053

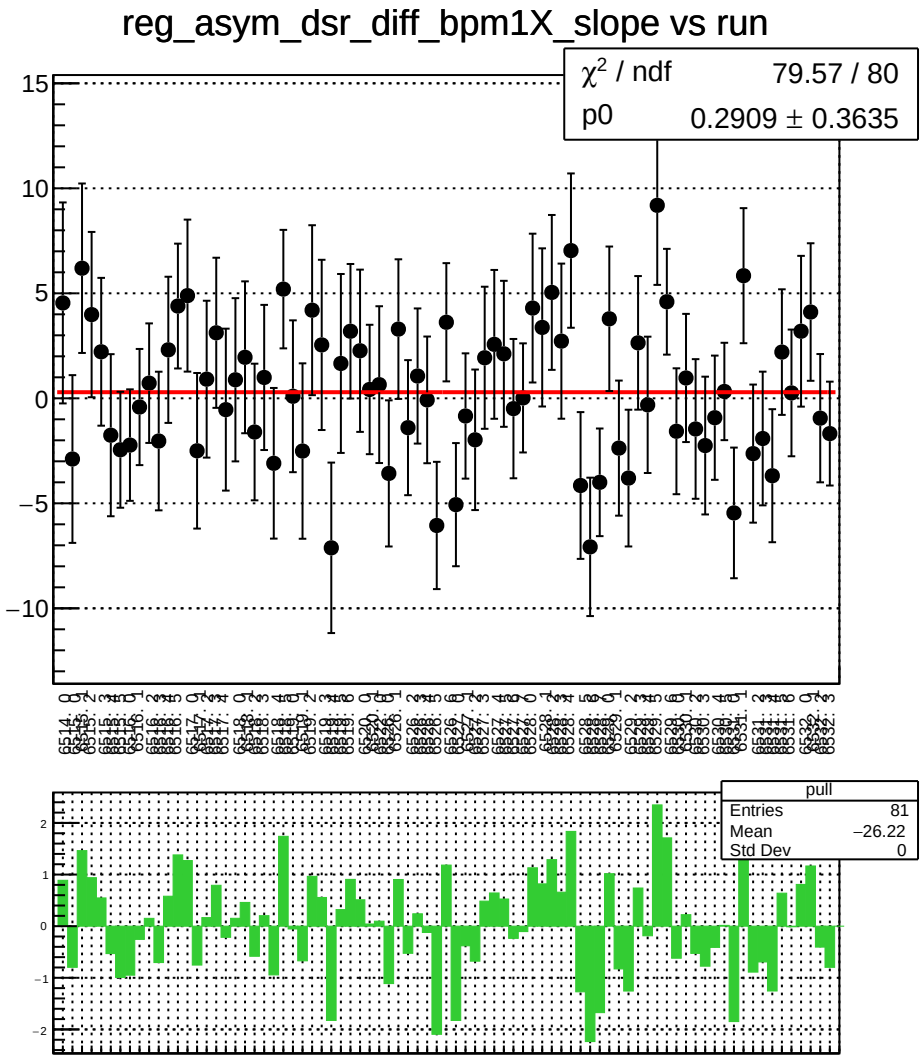

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 74.01 / 80
p0 −0.4 ± 0.3227
pull
Entries 81
Mean 1405
Std Dev 0

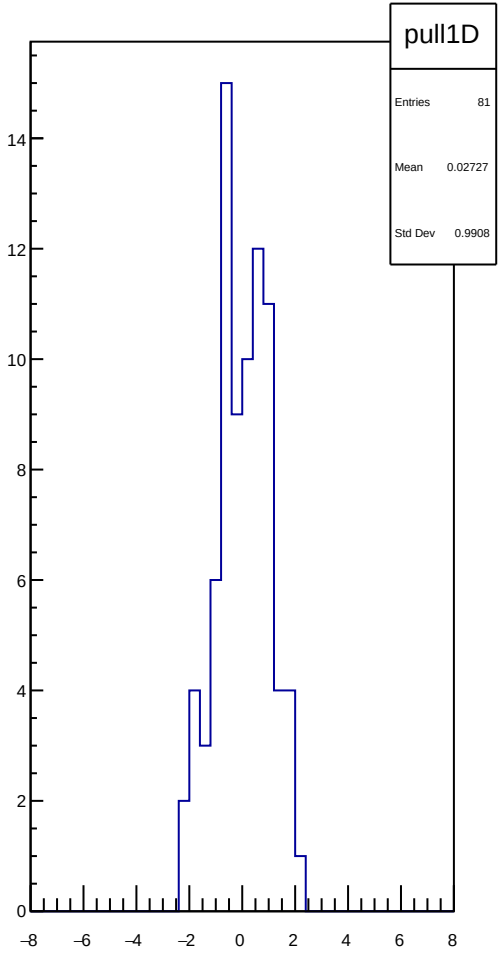

pull1D
Entries 81
Mean −0.001262
Std Dev 0.9559

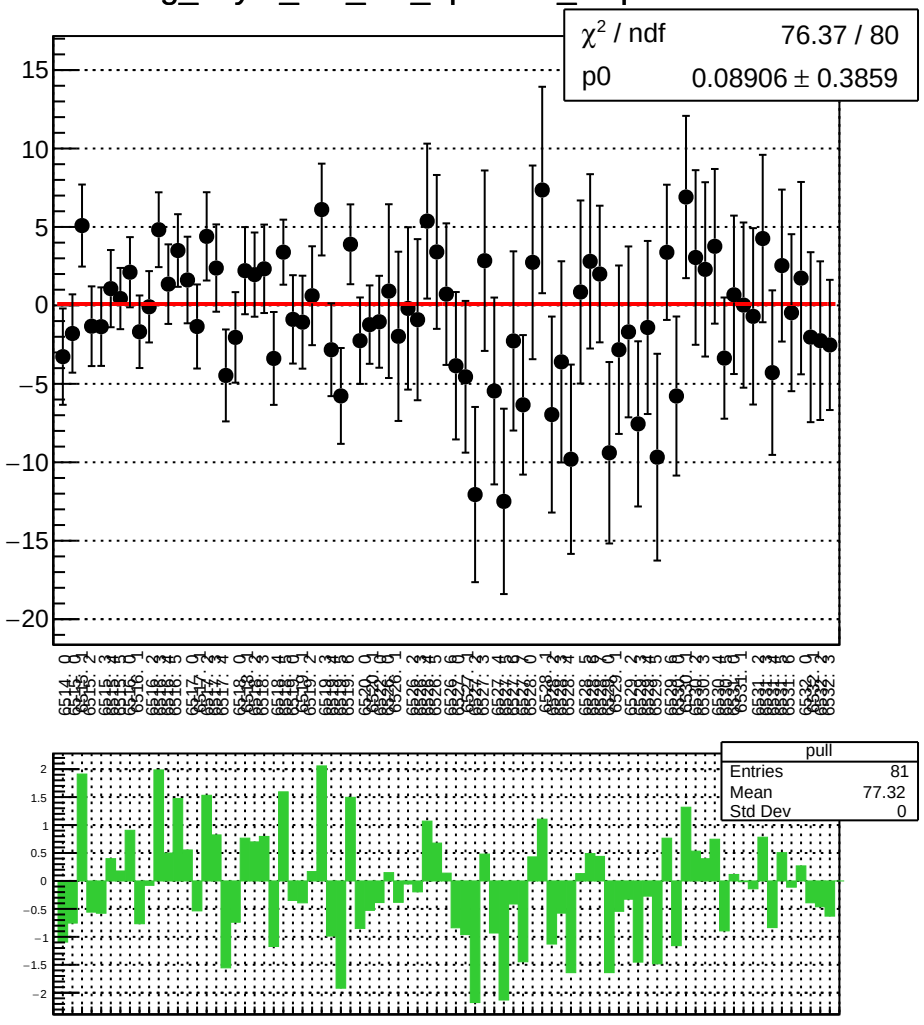

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 92.27 / 80
p0 −0.4619 ± 0.3685
pull
Entries 81
Mean −85.52
Std Dev 0

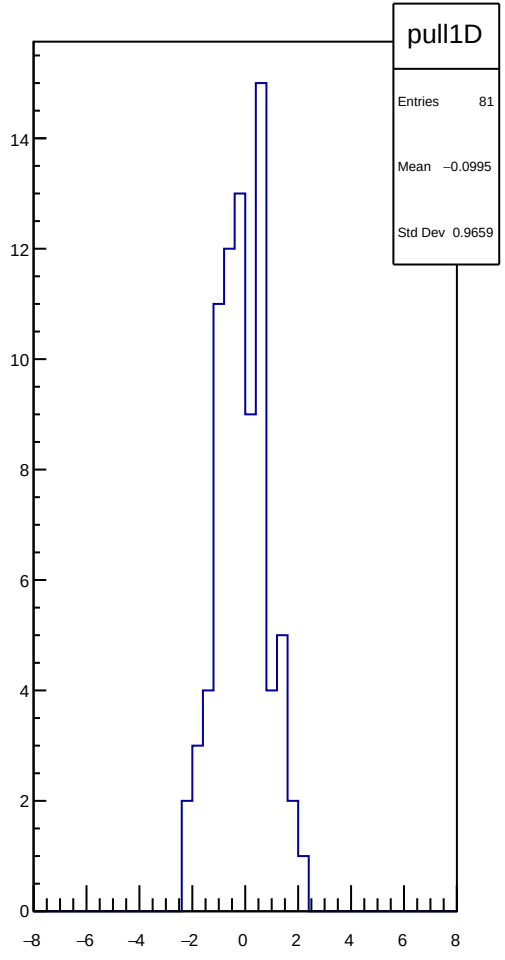

pull1D
Entries 81
Mean 0.01045
Std Dev 1.067

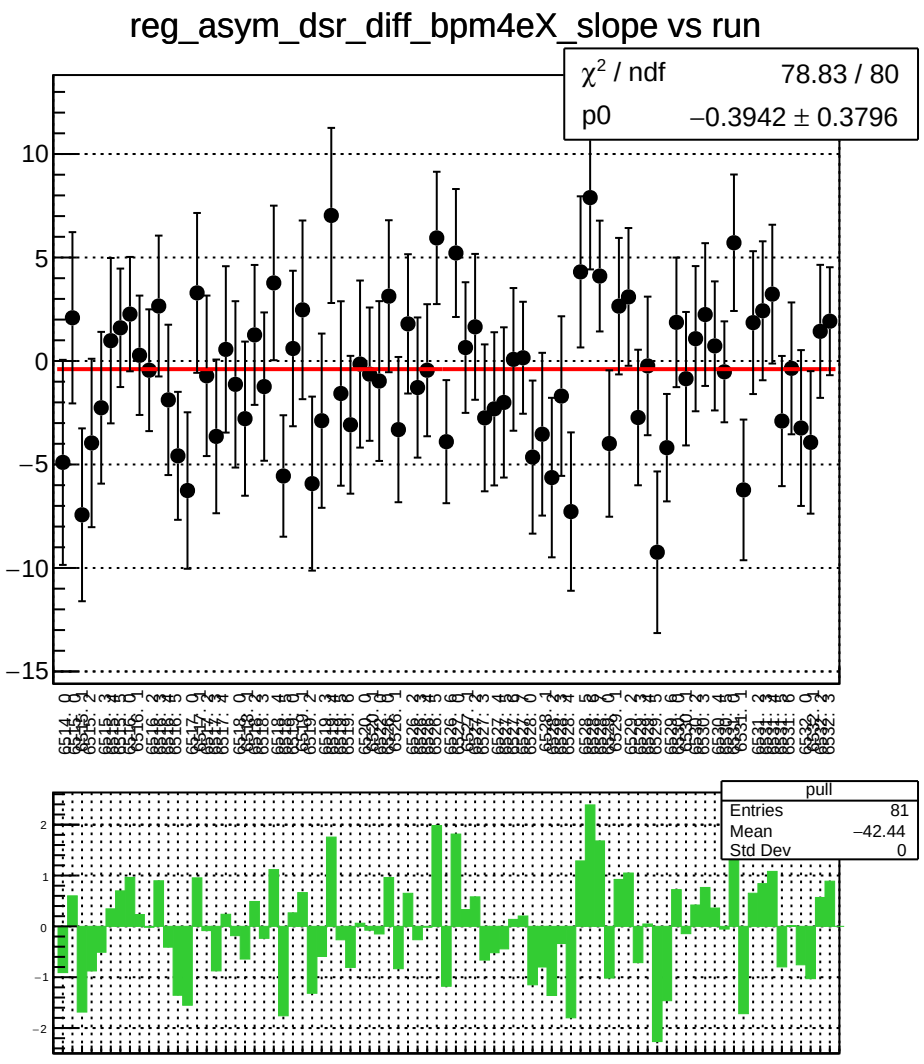

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 74.17 / 80
p0 0.006332 ± 0.01267
pull
Entries 81
Mean −32.12
Std Dev 0
pull1D
Entries 81
Mean 0.02456
Std Dev 0.9566

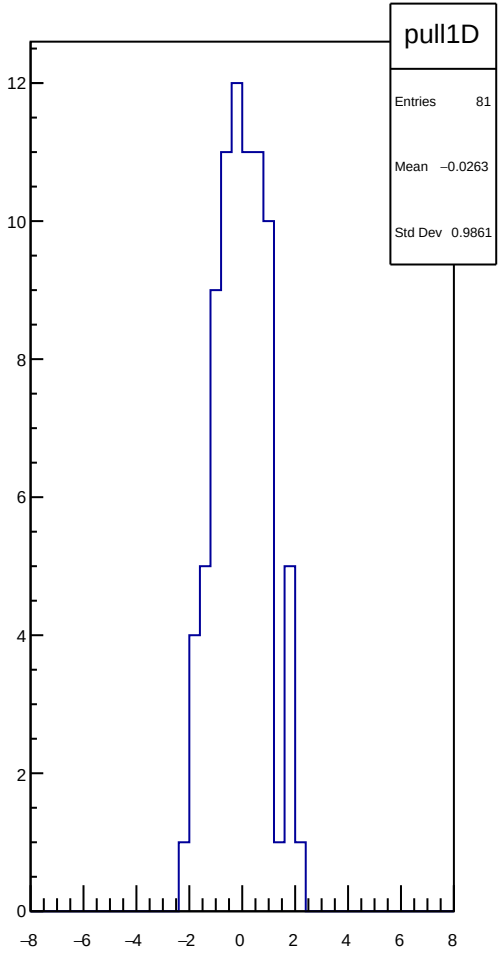

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 79.57 / 80
p0 0.2909 ± 0.3635
pull
Entries 81
Mean −26.22
Std Dev 0

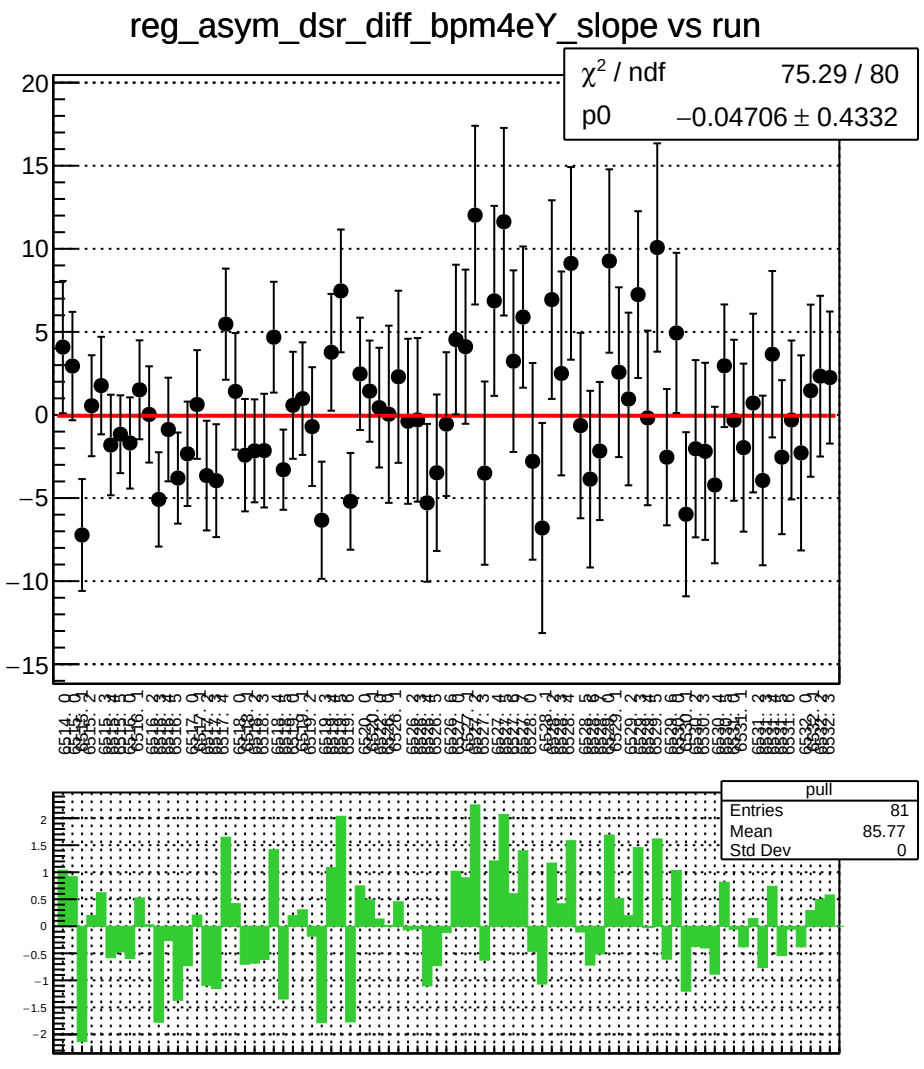

pull1D
Entries 81
Mean 0.02727
Std Dev 0.9908

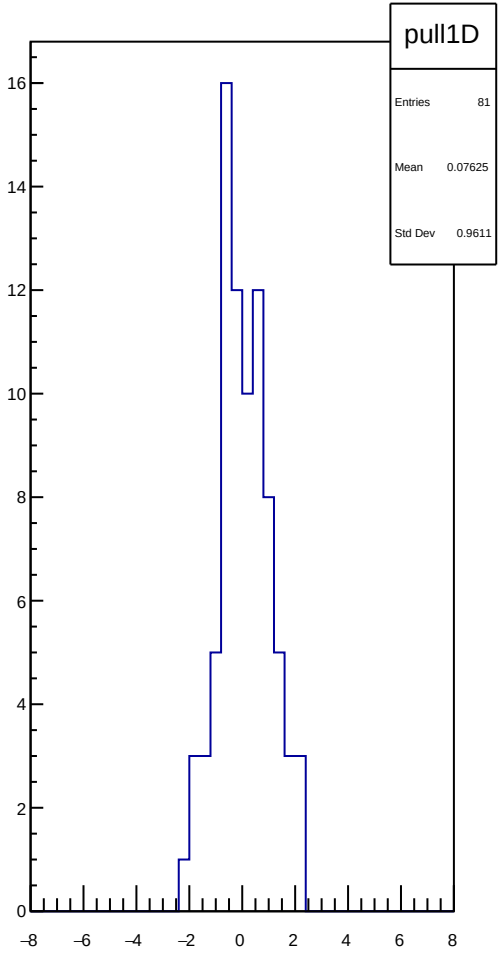

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 76.37 / 80
p0 0.08906 ± 0.3859
pull
Entries 81
Mean 77.32
Std Dev 0

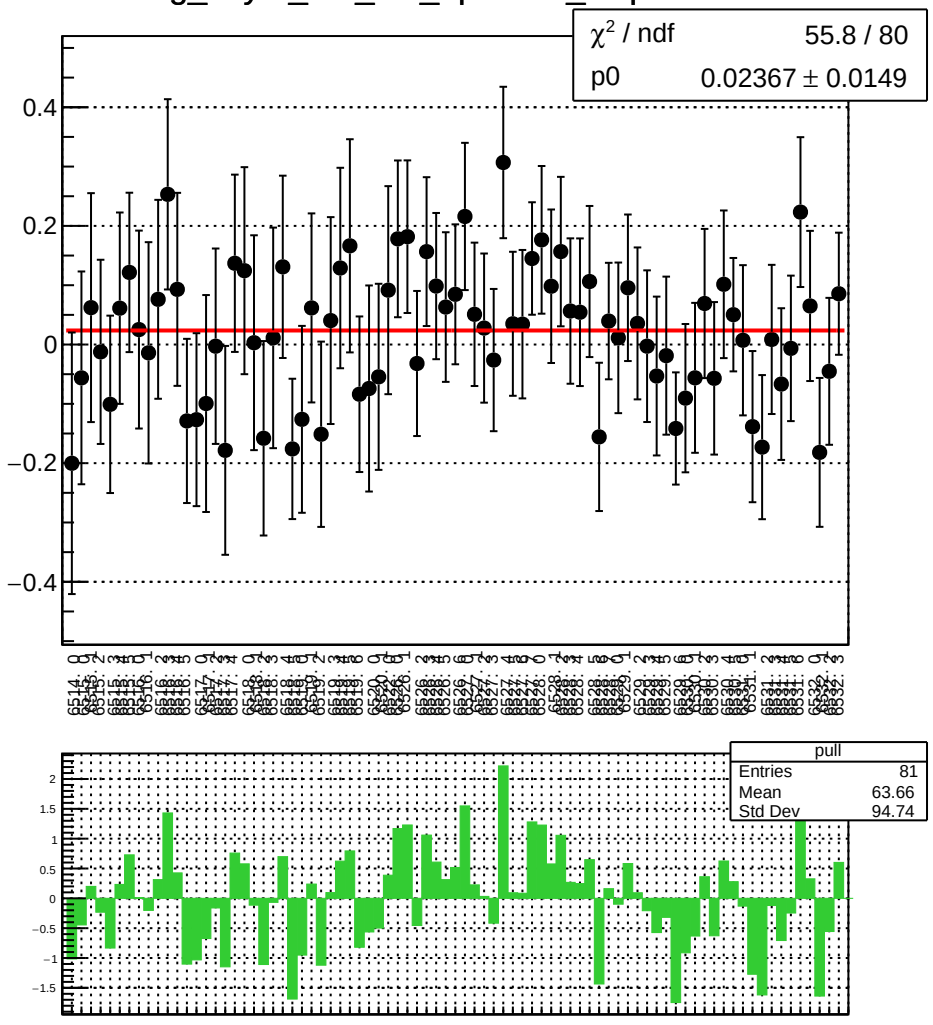

pull1D
Entries 81
Mean −0.0995
Std Dev 0.9659

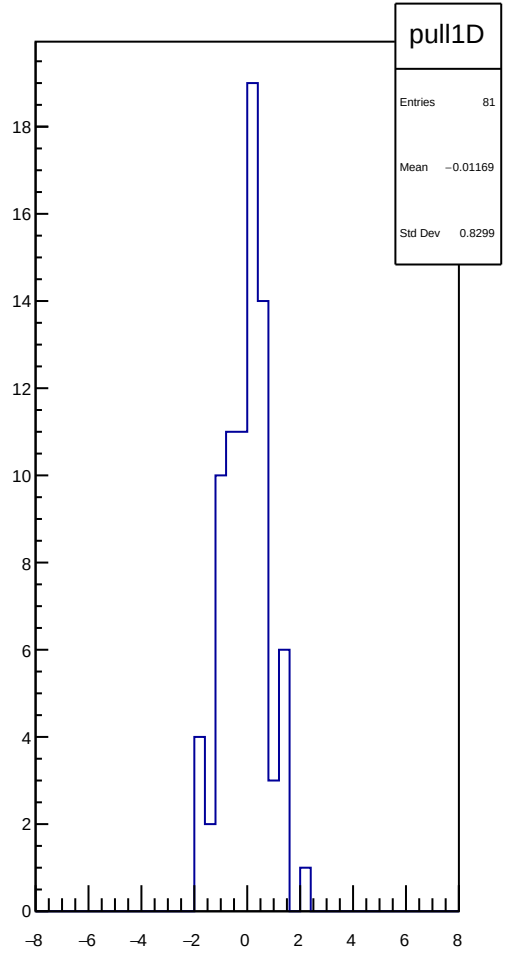

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 78.83 / 80
p0 −0.3942 ± 0.3796
pull
Entries 81
Mean −42.44
Std Dev 0

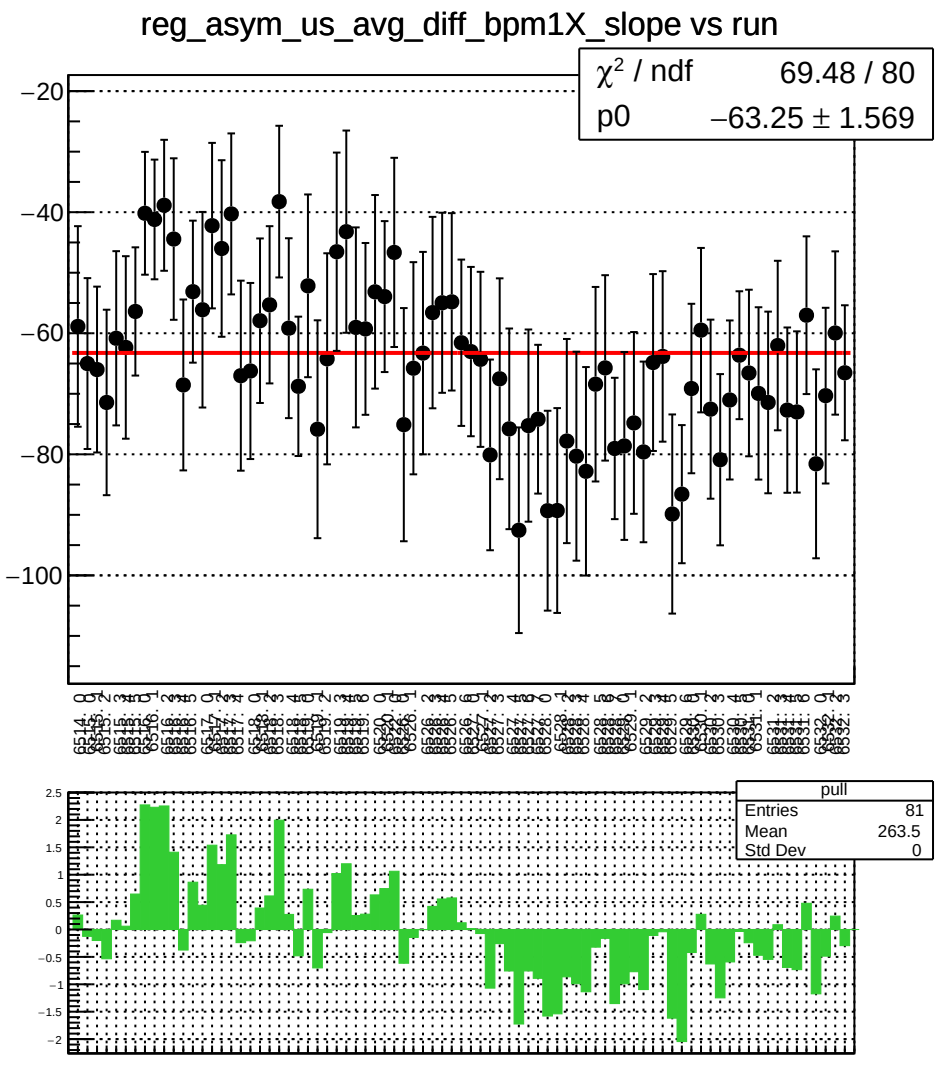

pull1D
Entries 81
Mean −0.0263
Std Dev 0.9861

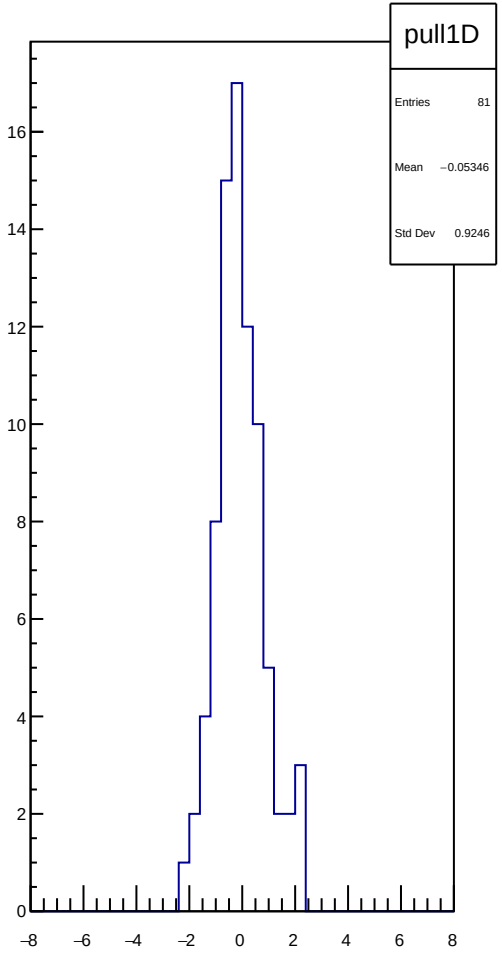

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 75.29 / 80
p0 −0.04706 ± 0.4332
pull
Entries 81
Mean 85.77
Std Dev 0

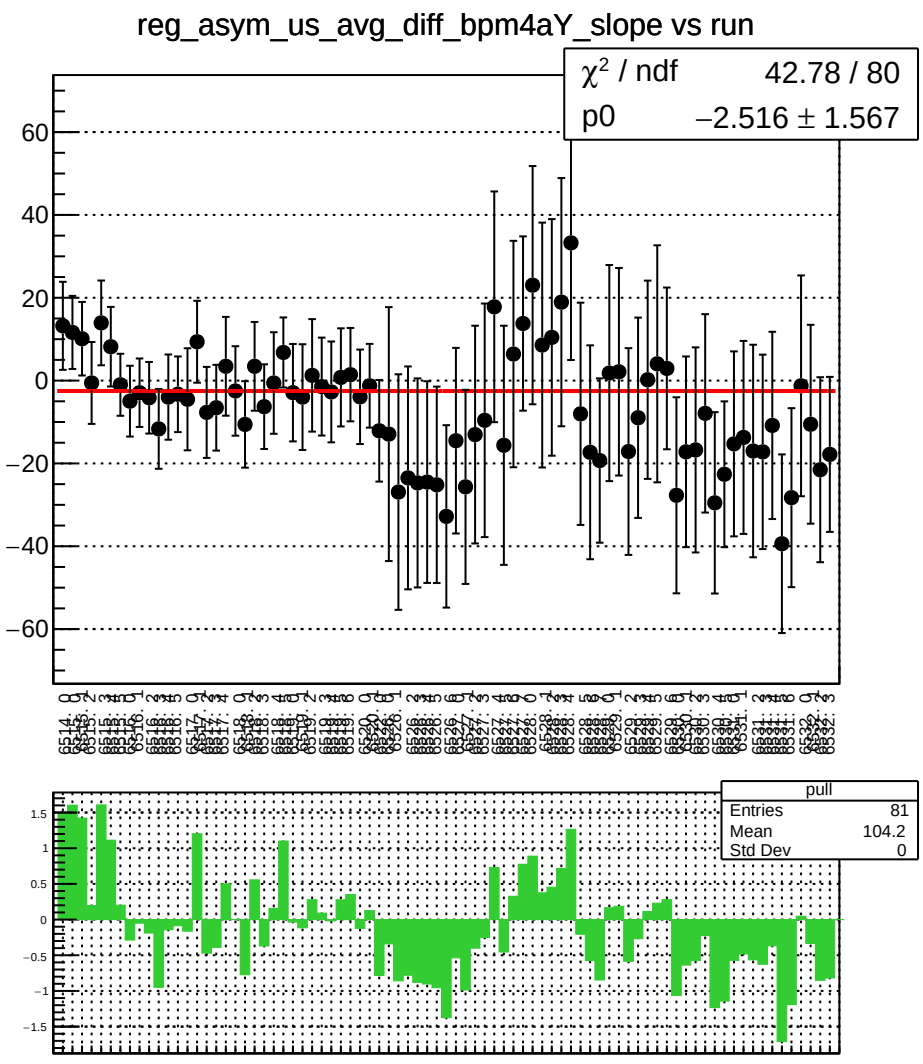

pull1D
Entries 81
Mean 0.07625
Std Dev 0.9611

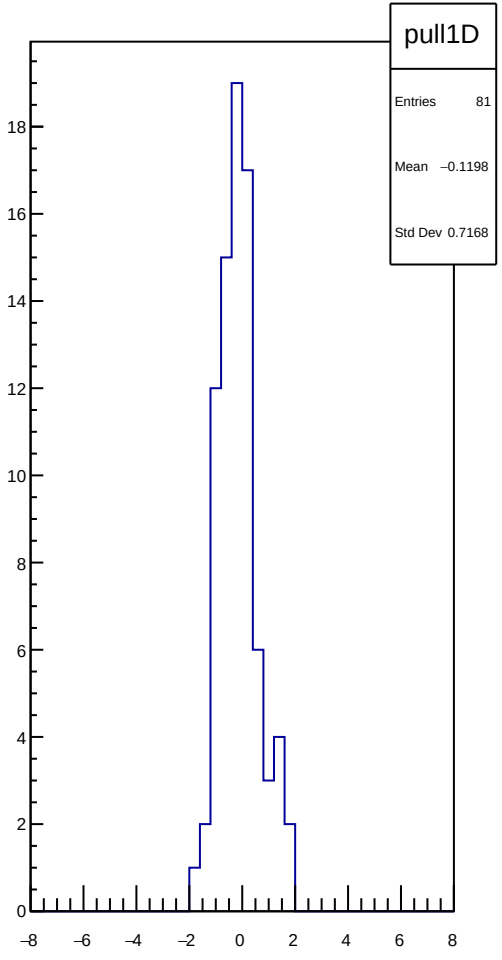

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 55.8 / 80
p0 0.02367 ± 0.0149
pull
Entries 81
Mean 63.66
Std Dev 94.74

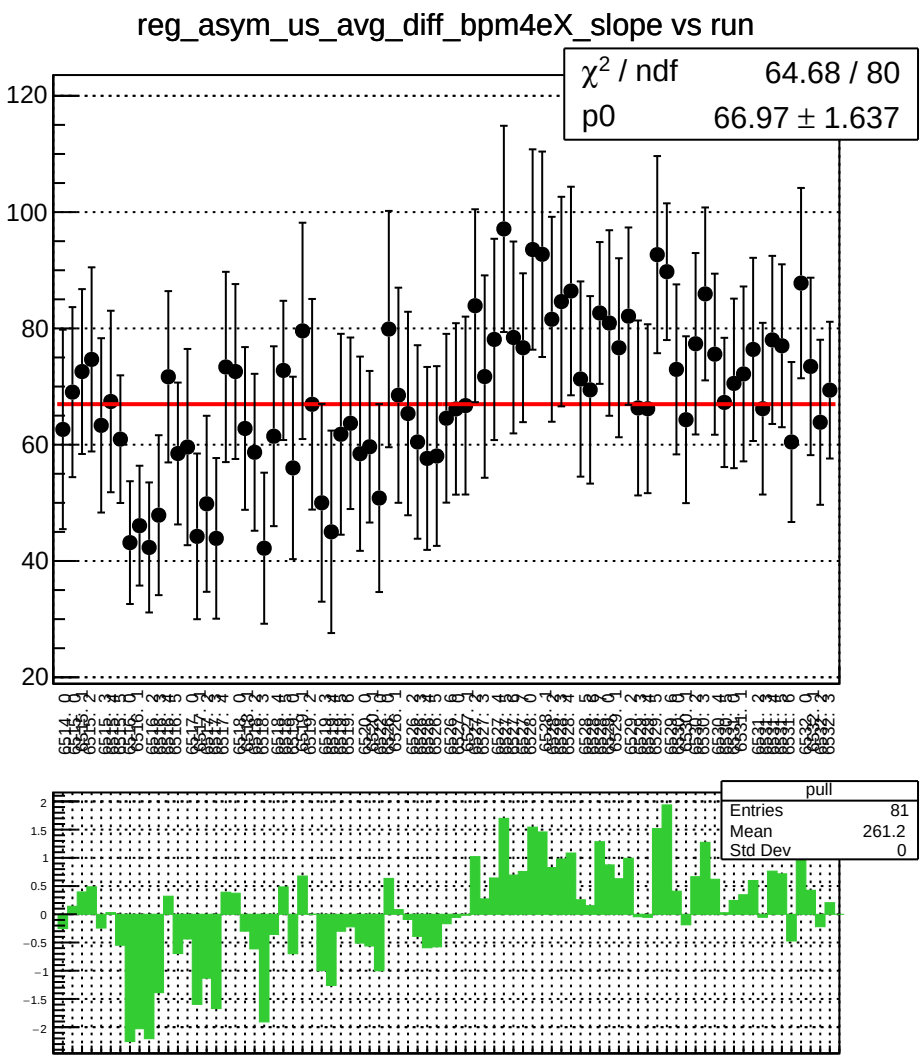

pull1D
Entries 81
Mean −0.01169
Std Dev 0.8299

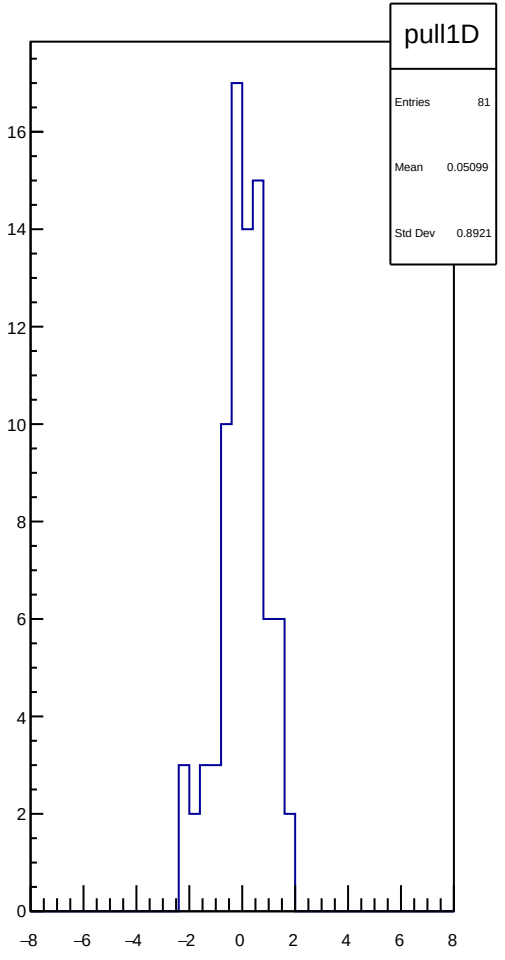

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 69.48 / 80
p0 −63.25 ± 1.569
pull
Entries 81
Mean 263.5
Std Dev 0

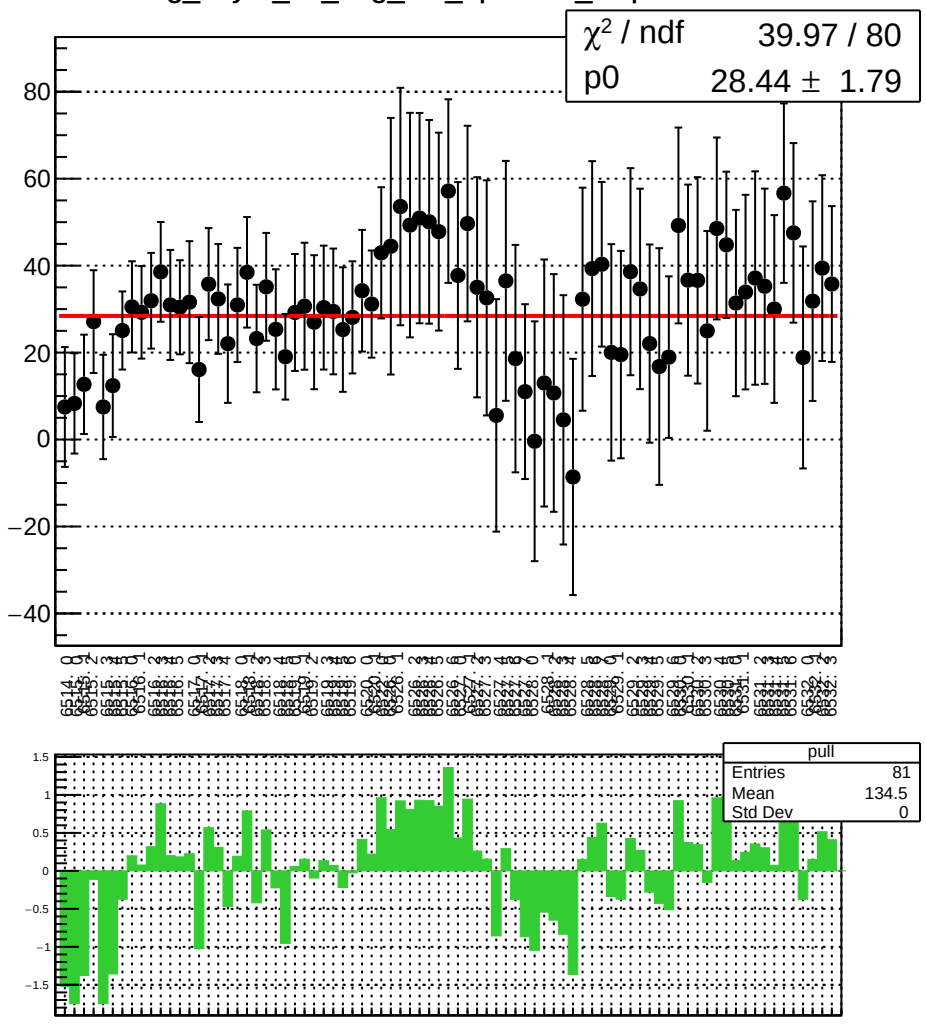

pull1D
Entries 81
Mean −0.05346
Std Dev 0.9246

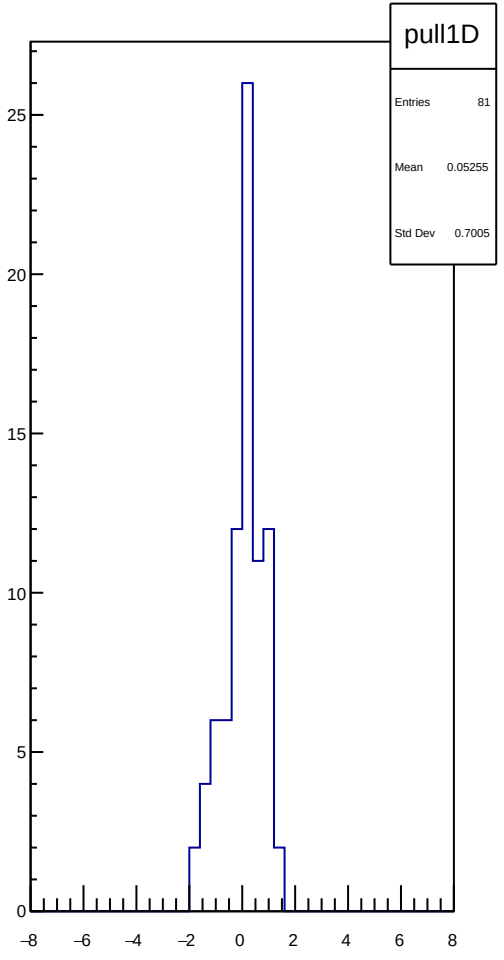

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 42.78 / 80
p0 −2.516 ± 1.567
pull
Entries 81
Mean 104.2
Std Dev 0

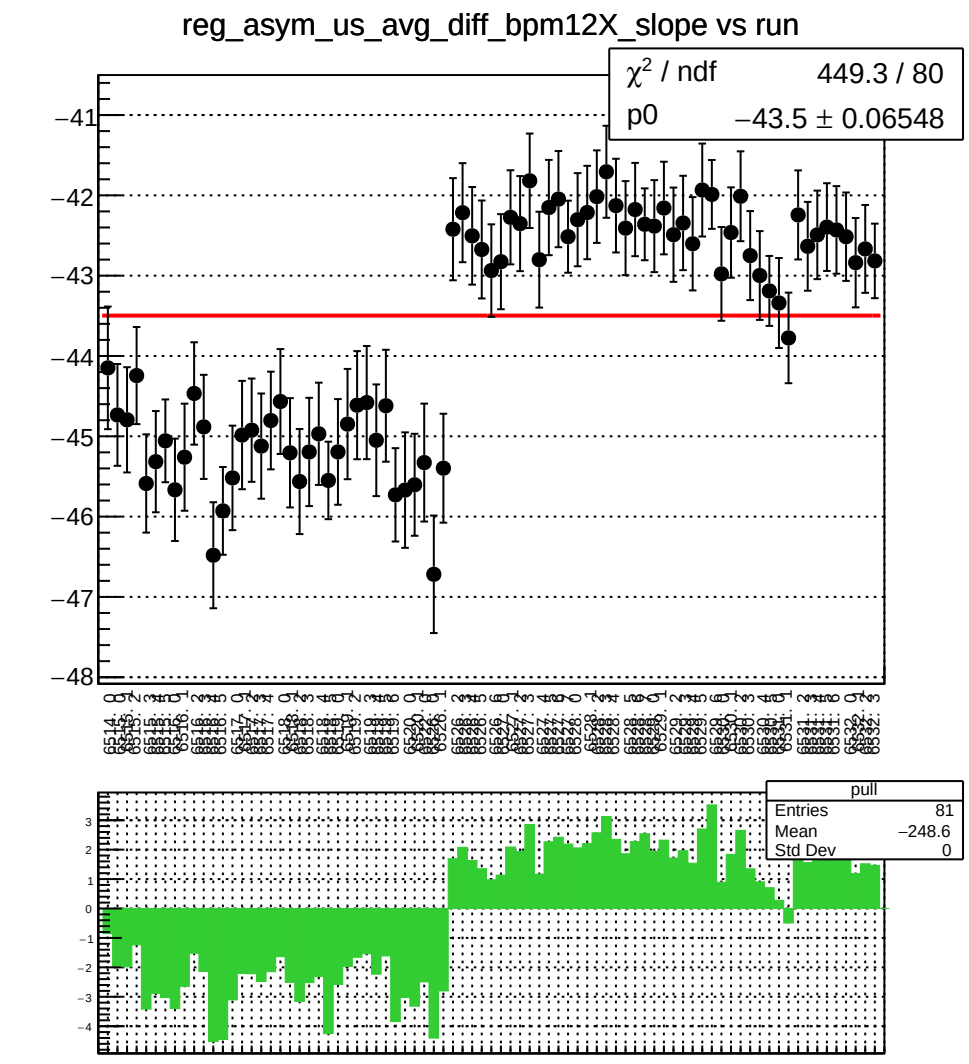

pull1D
Entries 81
Mean −0.1198
Std Dev 0.7168

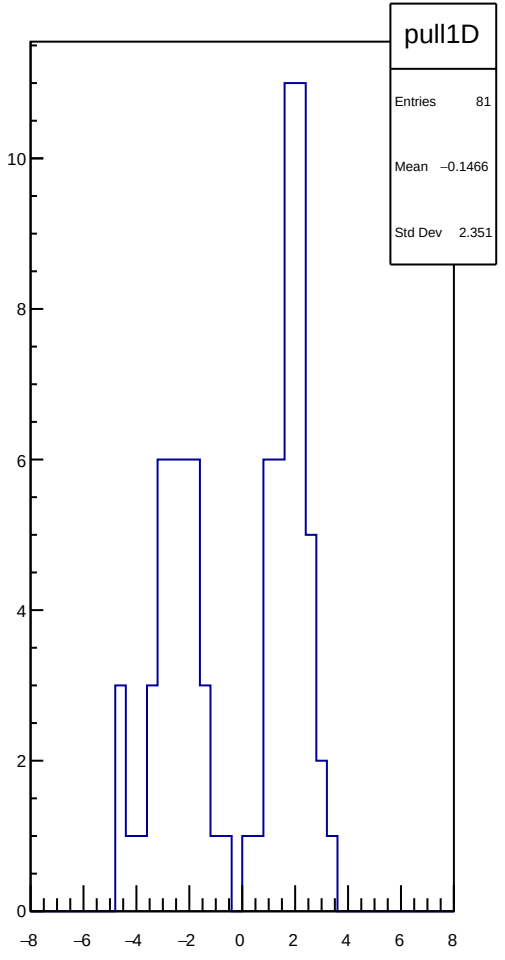

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 64.68 / 80
p0 66.97 ± 1.637
pull
Entries 81
Mean 261.2
Std Dev 0

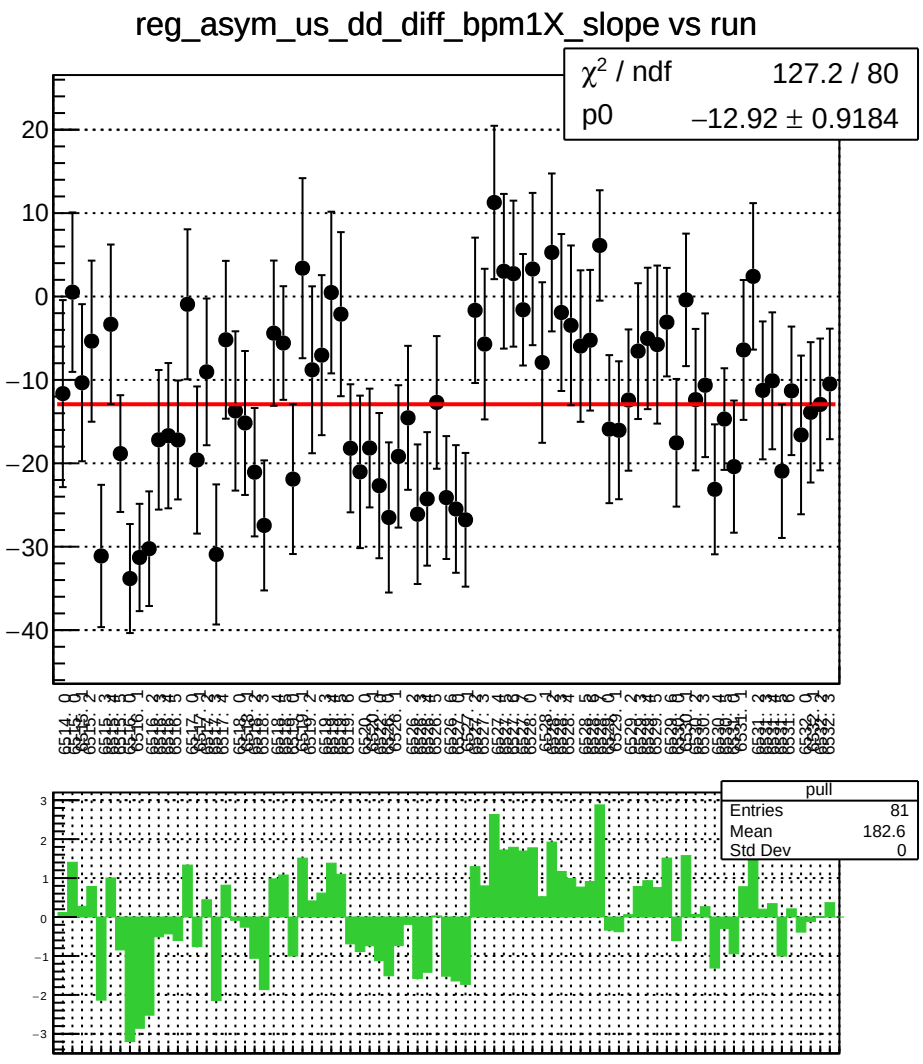

pull1D
Entries 81
Mean 0.05099
Std Dev 0.8921

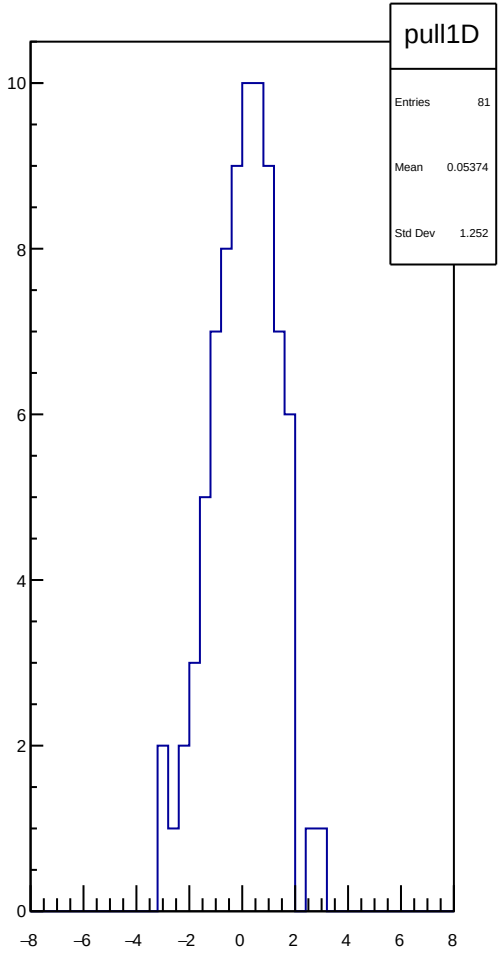

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 39.97 / 80
p0 28.44 ± 1.79
pull
Entries 81
Mean 134.5
Std Dev 0

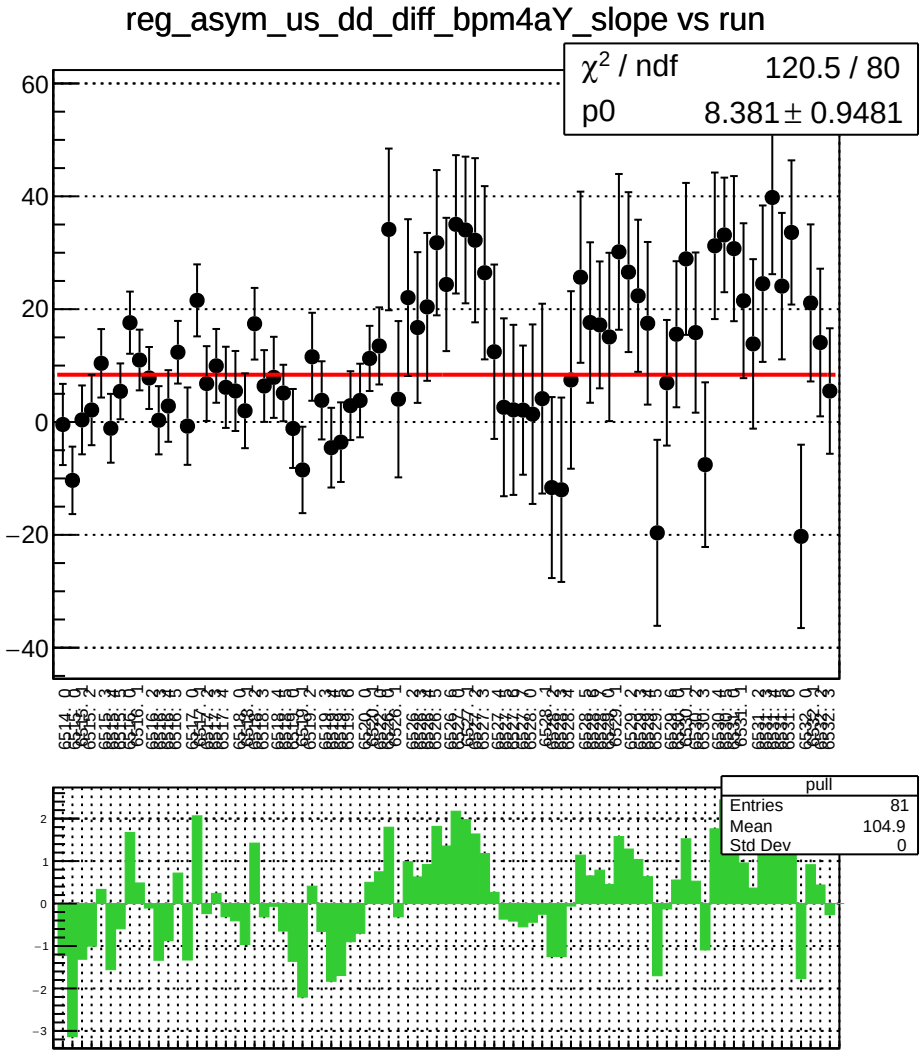

pull1D
Entries 81
Mean 0.05255
Std Dev 0.7005

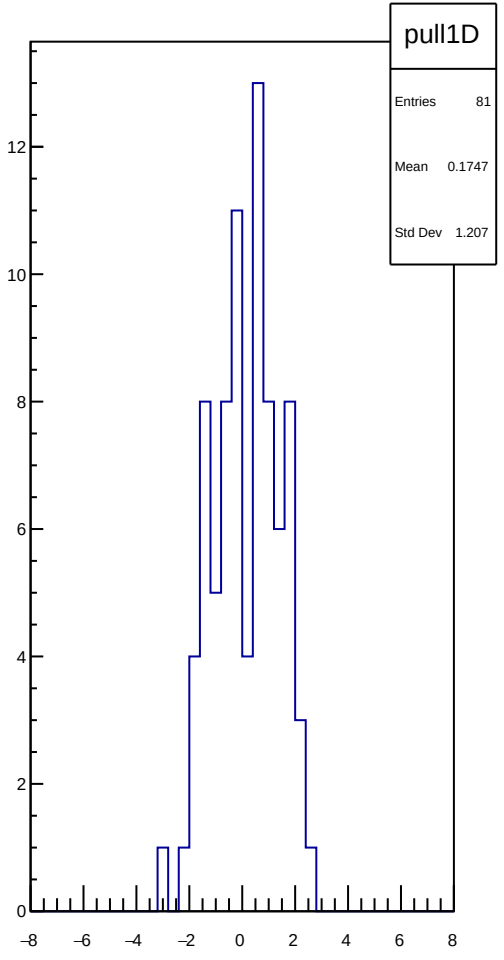

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 449.3 / 80
p0 −43.5 ± 0.06548
pull
Entries 81
Mean −248.6
Std Dev 0

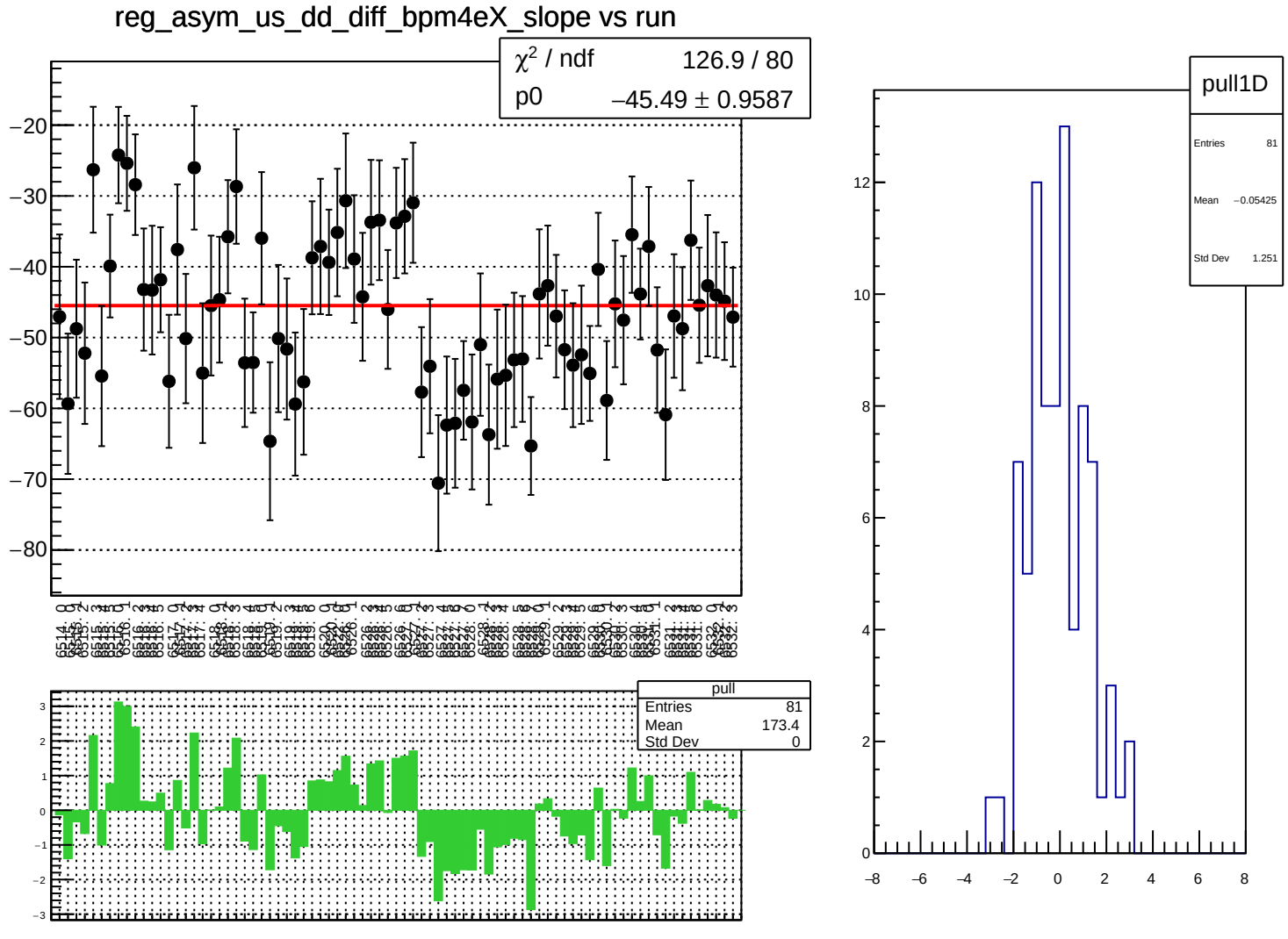

pull1D
Entries 81
Mean −0.1466
Std Dev 2.351

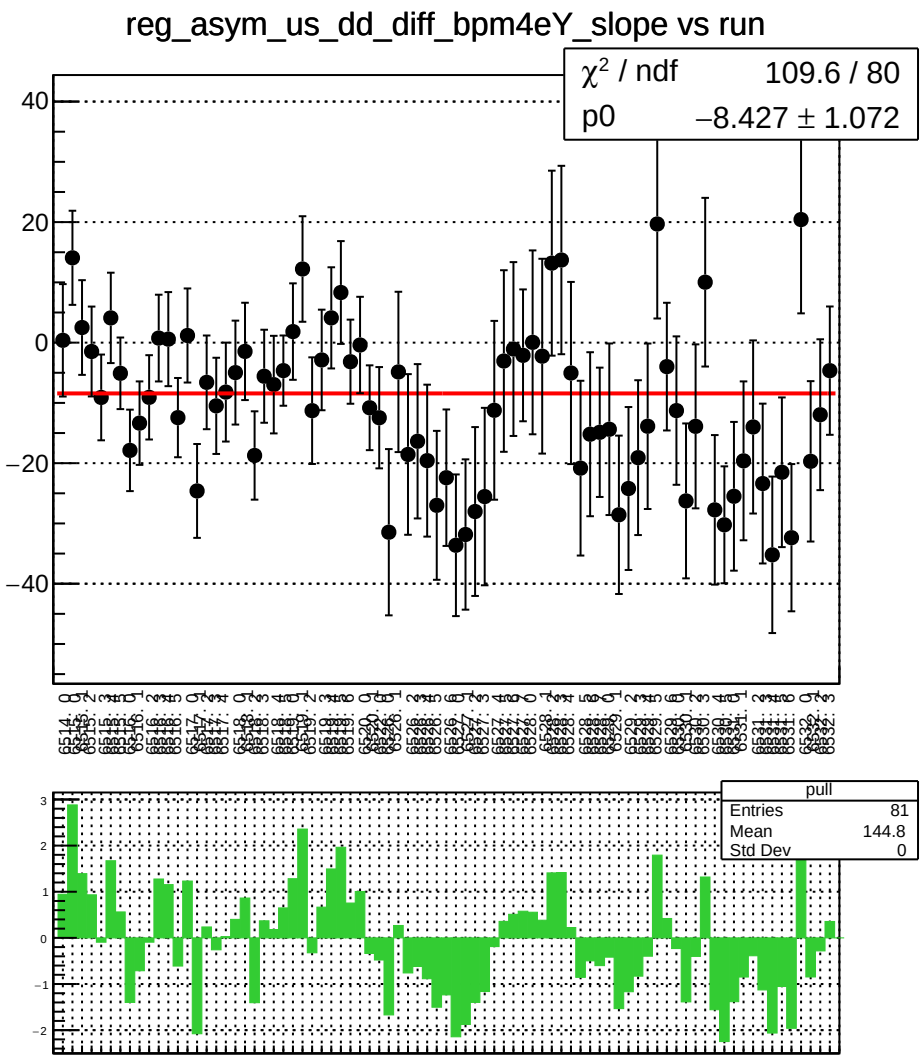

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 127.2 / 80
p0 −12.92 ± 0.9184
pull
Entries 81
Mean 182.6
Std Dev 0

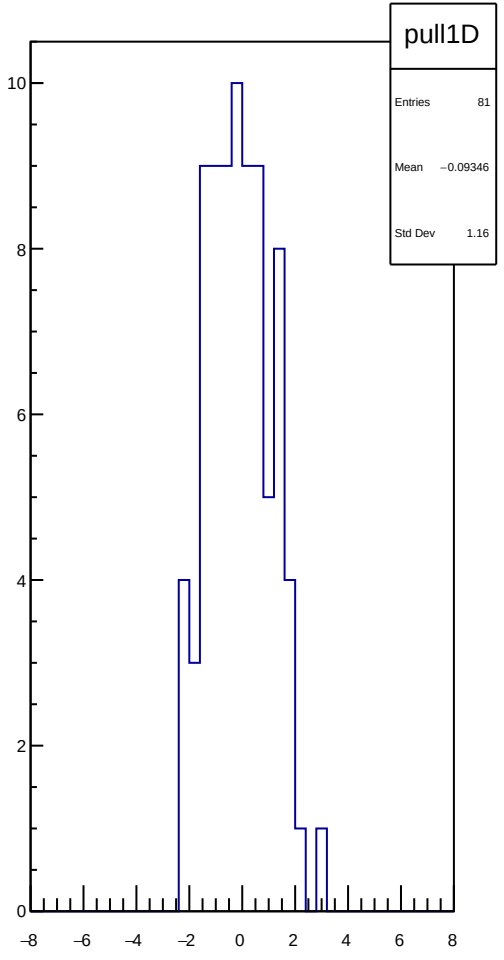

pull1D
Entries 81
Mean 0.05374
Std Dev 1.252

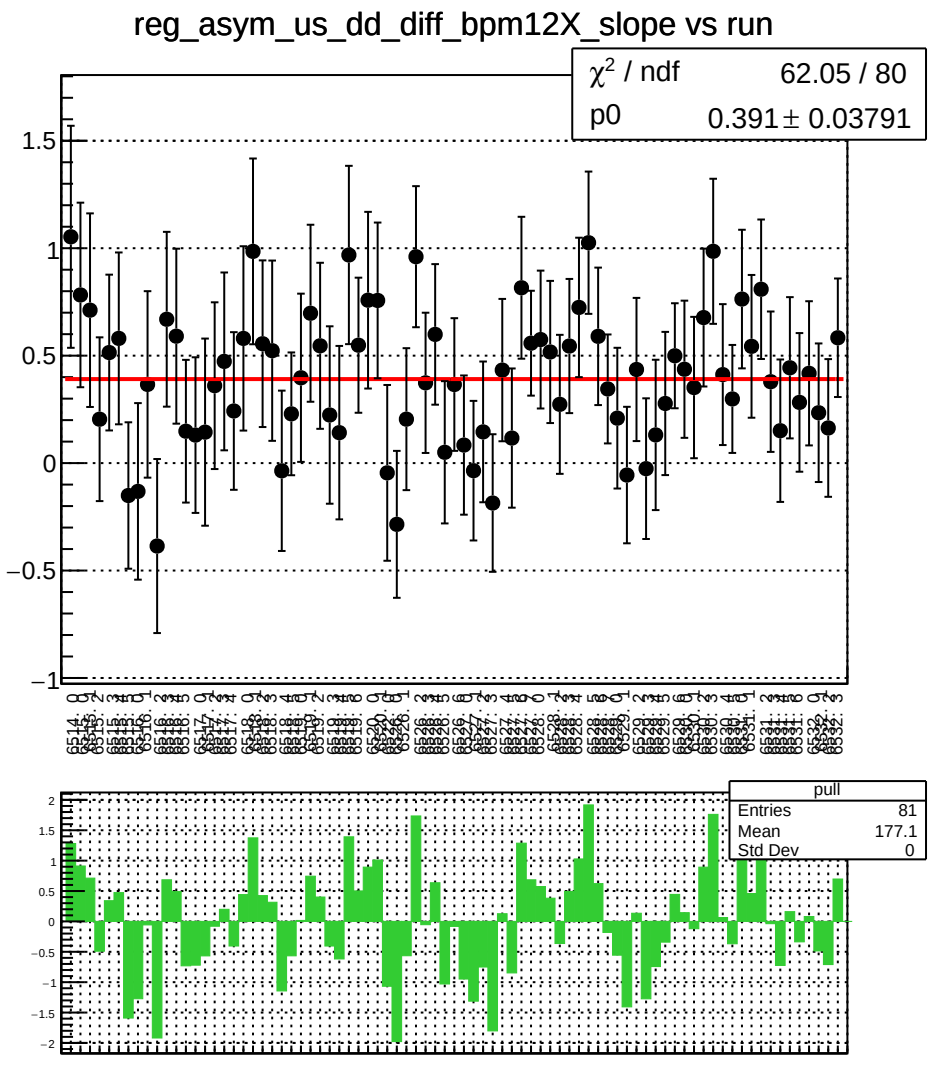

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 120.5 / 80
p0 8.381 ± 0.9481
pull
Entries 81
Mean 104.9
Std Dev 0

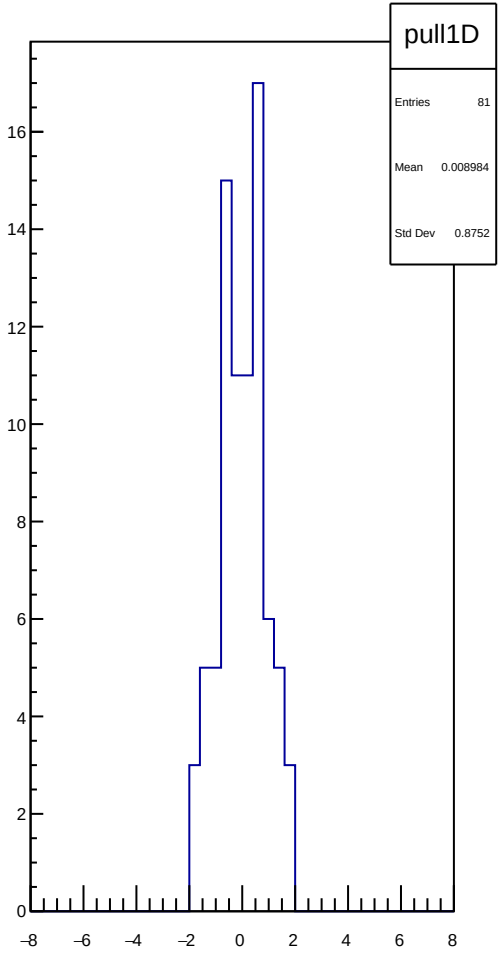

pull1D
Entries 81
Mean 0.1747
Std Dev 1.207

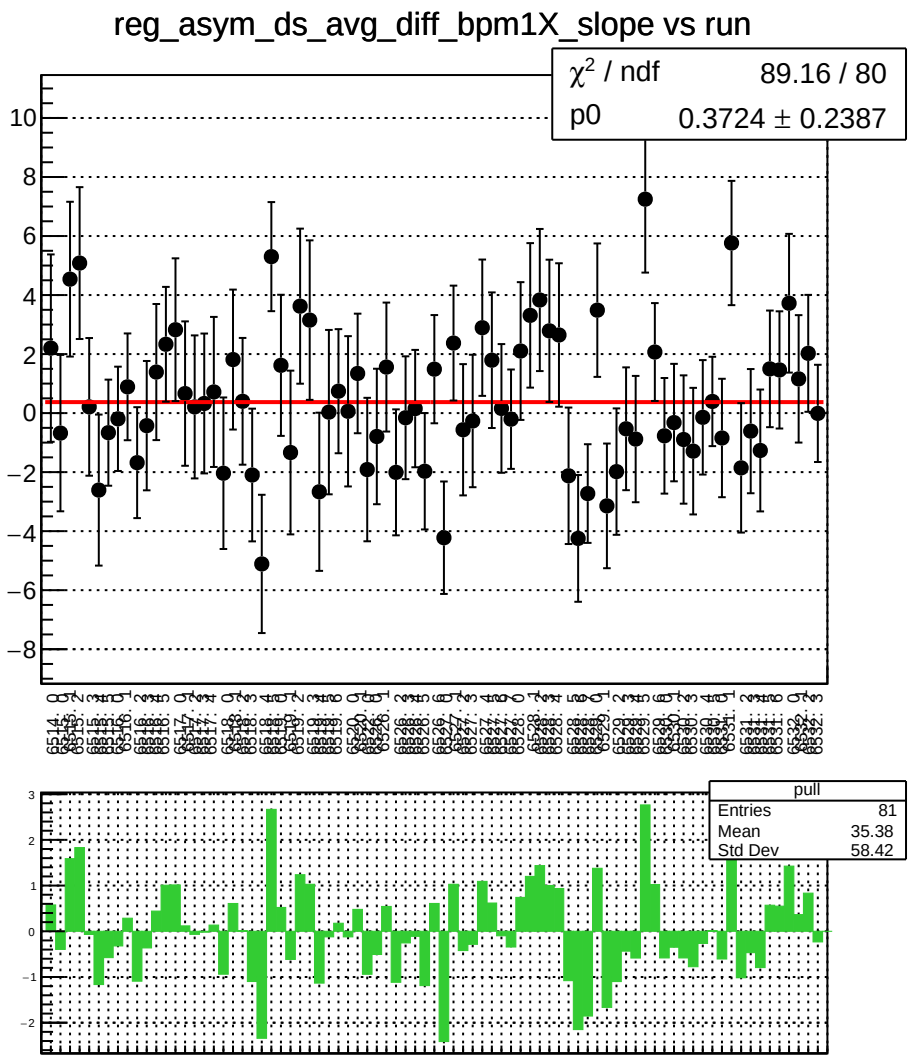

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 126.9 / 80
p0 −45.49 ± 0.9587
pull
Entries 81
Mean 173.4
Std Dev 0
pull1D
Entries 81
Mean −0.05425
Std Dev 1.251

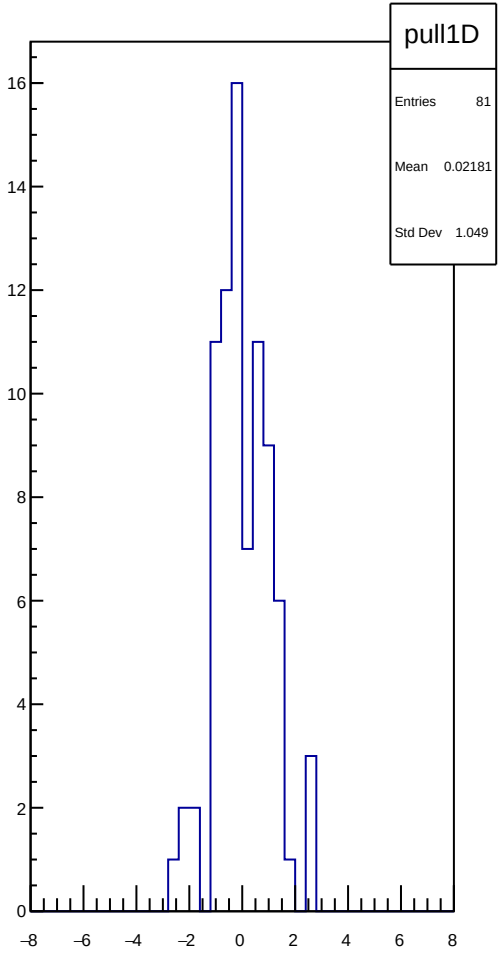

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 109.6 / 80
p0 −8.427 ± 1.072
pull
Entries 81
Mean 144.8
Std Dev 0

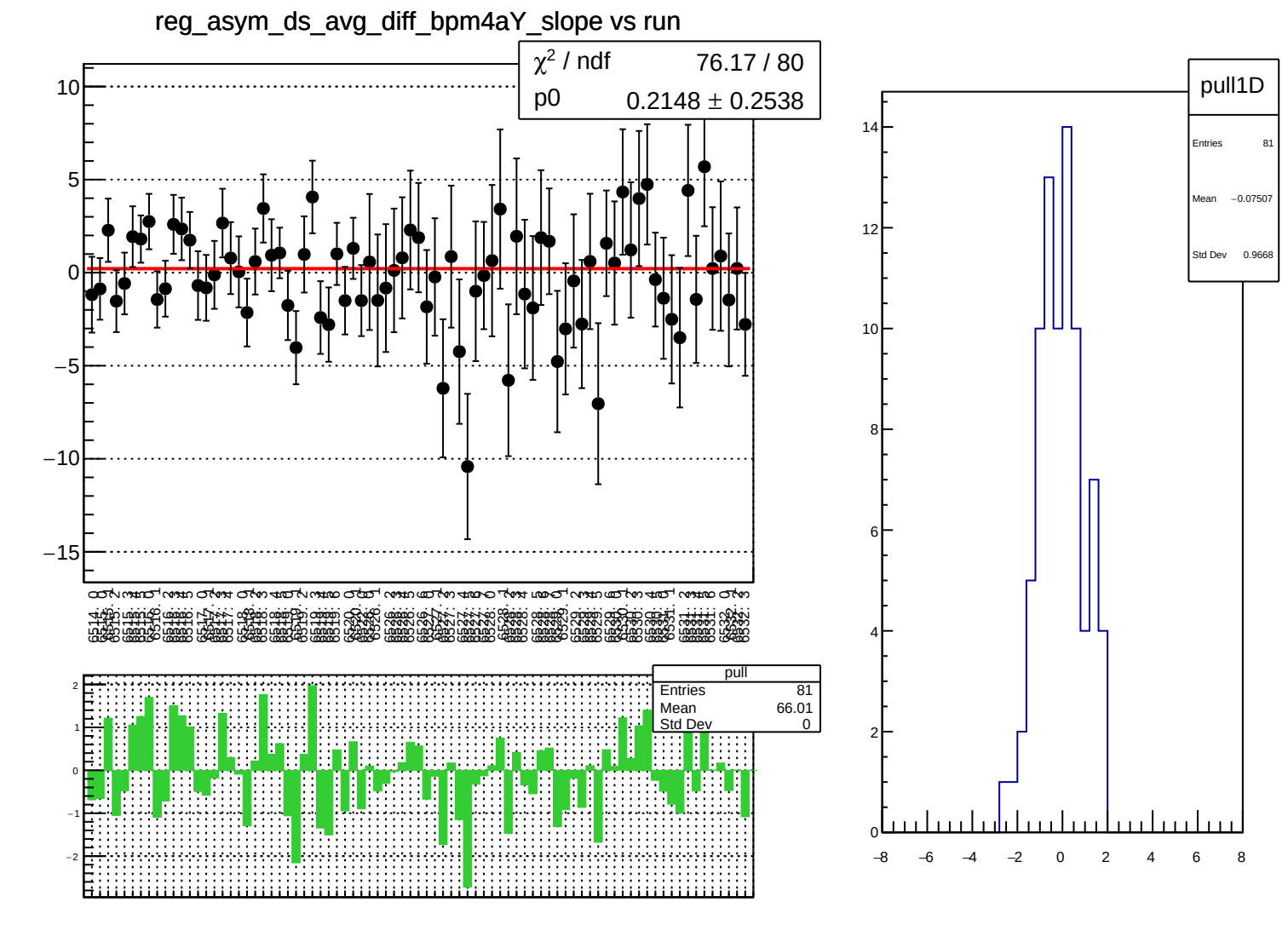

pull1D
Entries 81
Mean −0.09346
Std Dev 1.16

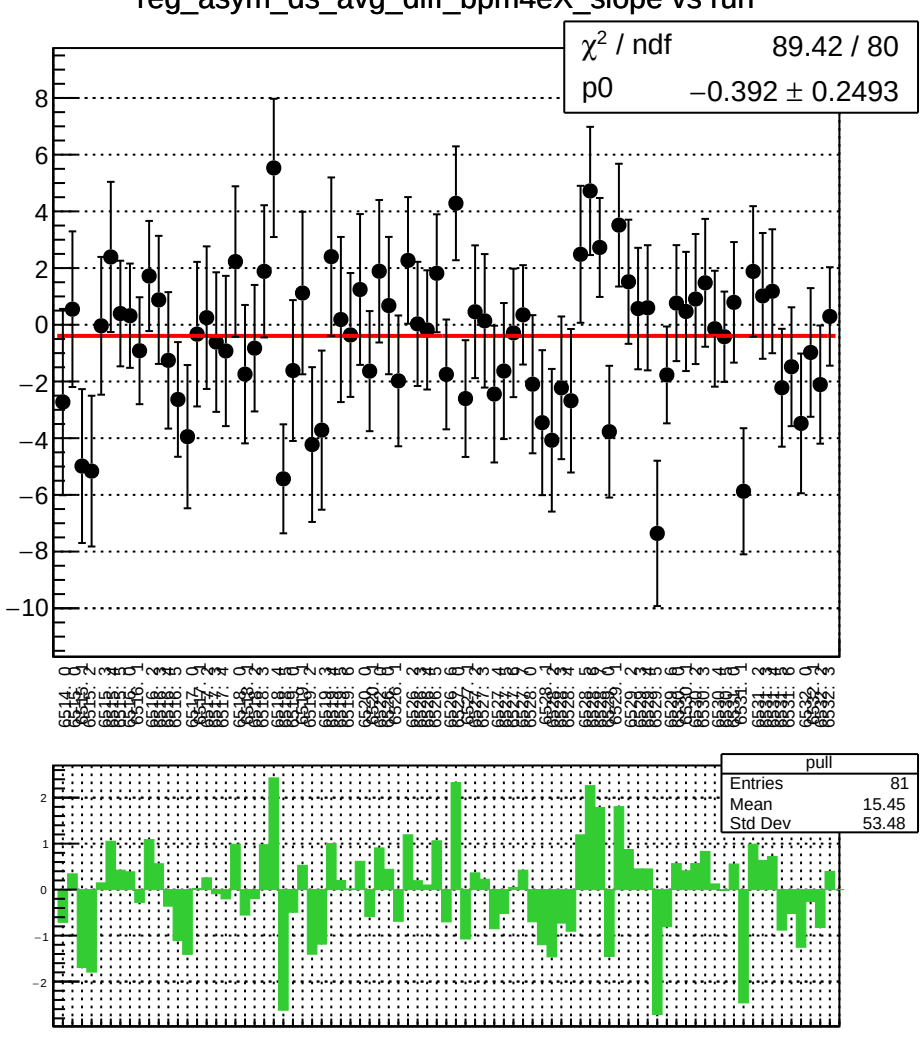

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 62.05 / 80
p0 0.391 ± 0.03791
pull
Entries 81
Mean 177.1
Std Dev 0

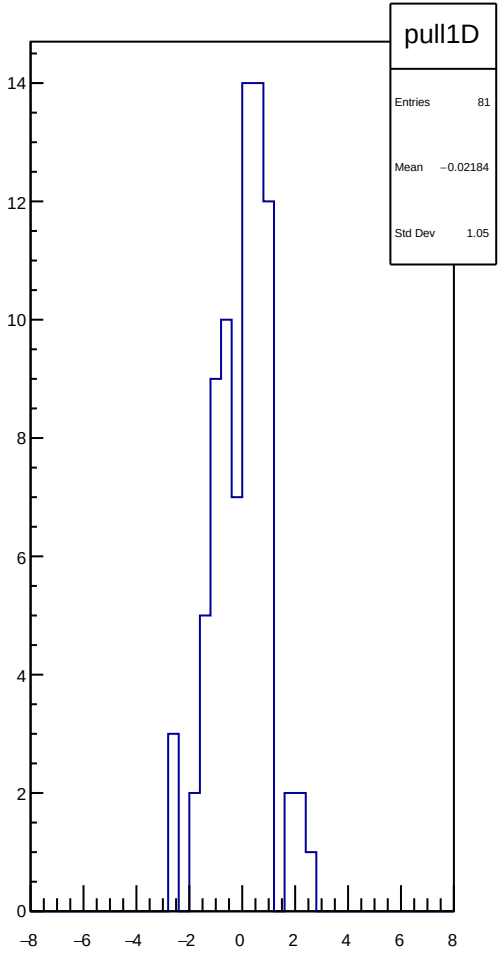

pull1D
Entries 81
Mean 0.008984
Std Dev 0.8752

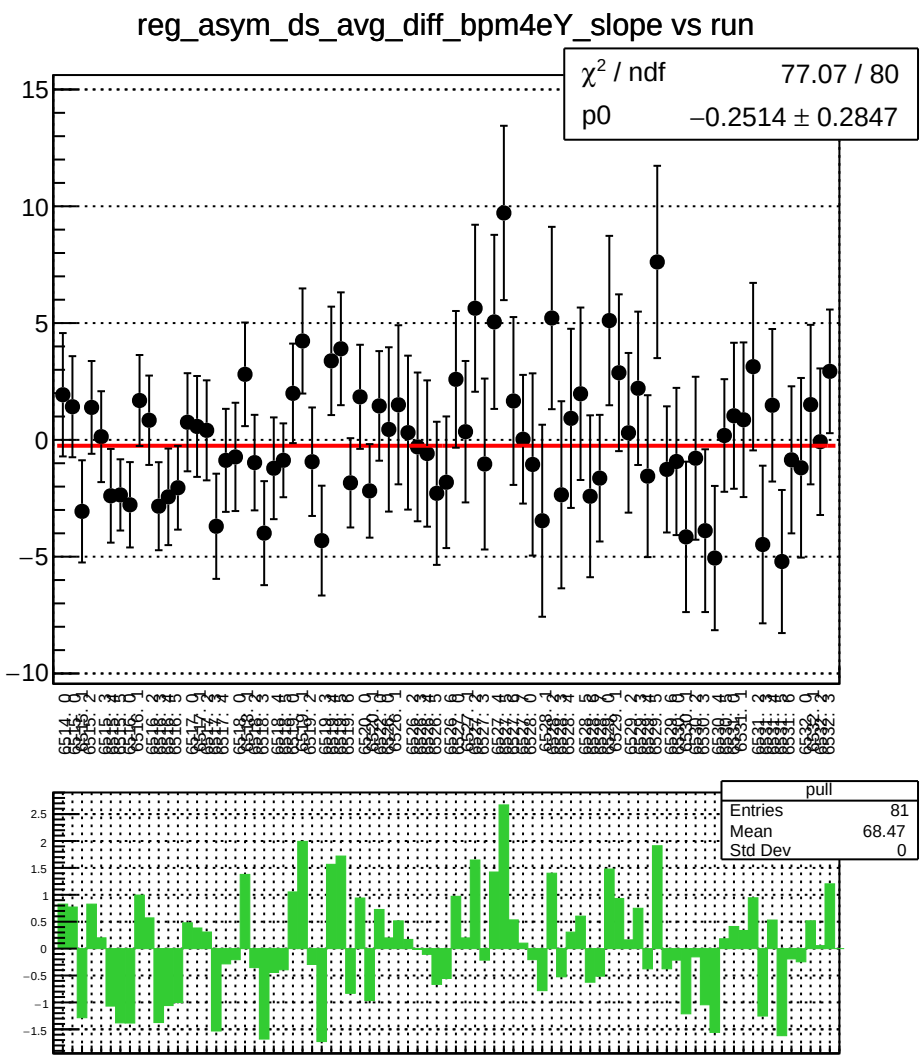

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 89.16 / 80
p0 0.3724 ± 0.2387
pull
Entries 81
Mean 35.38
Std Dev 58.42

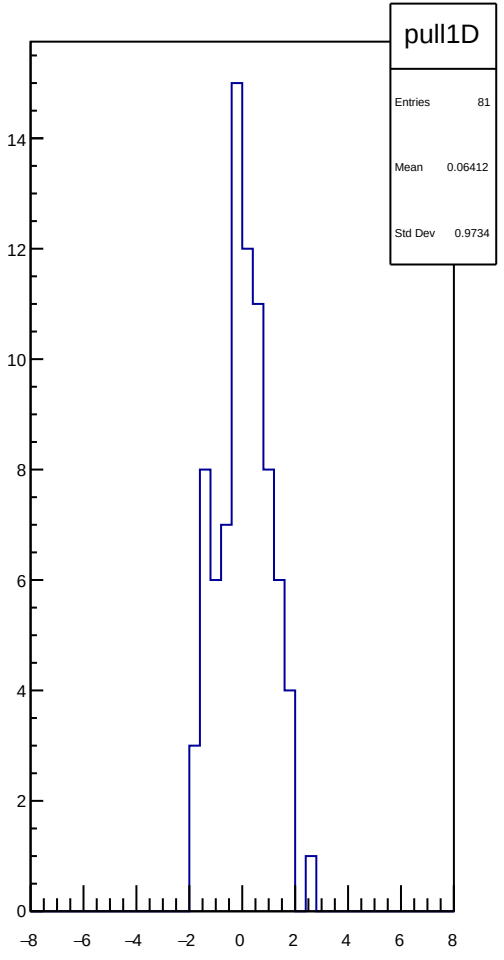

pull1D
Entries 81
Mean 0.02181
Std Dev 1.049

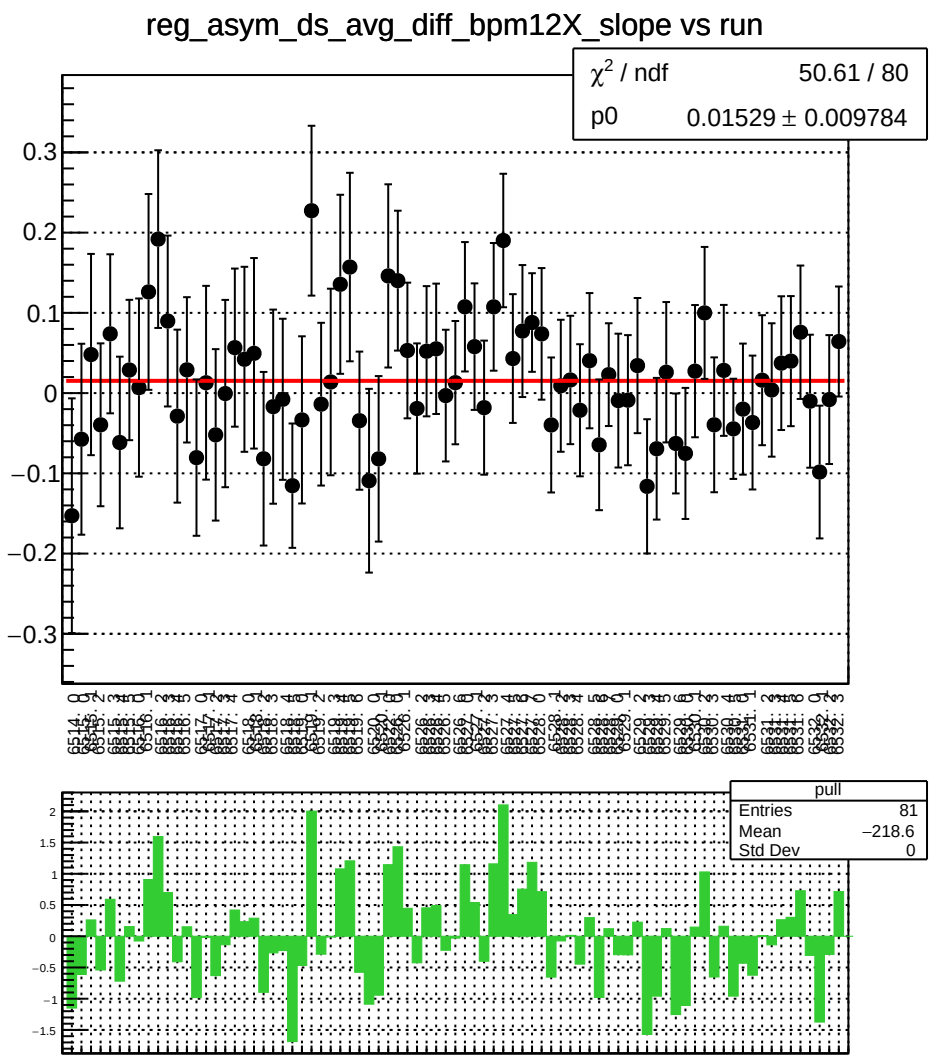

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 76.17 / 80
p0 0.2148 ± 0.2538
pull
Entries 81
Mean 66.01
Std Dev 0
pull1D
Entries 81
Mean −0.07507
Std Dev 0.9668

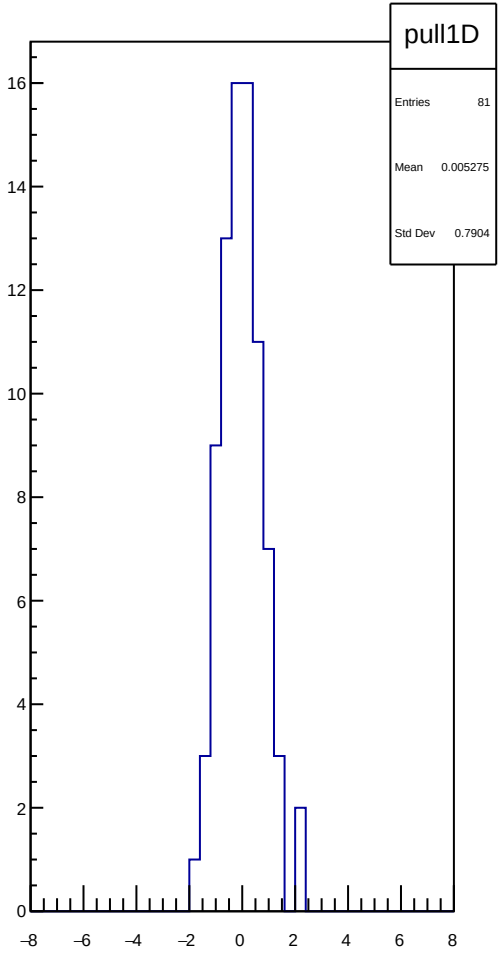

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 89.42 / 80
p0 −0.392 ± 0.2493
pull
Entries 81
Mean 15.45
Std Dev 53.48

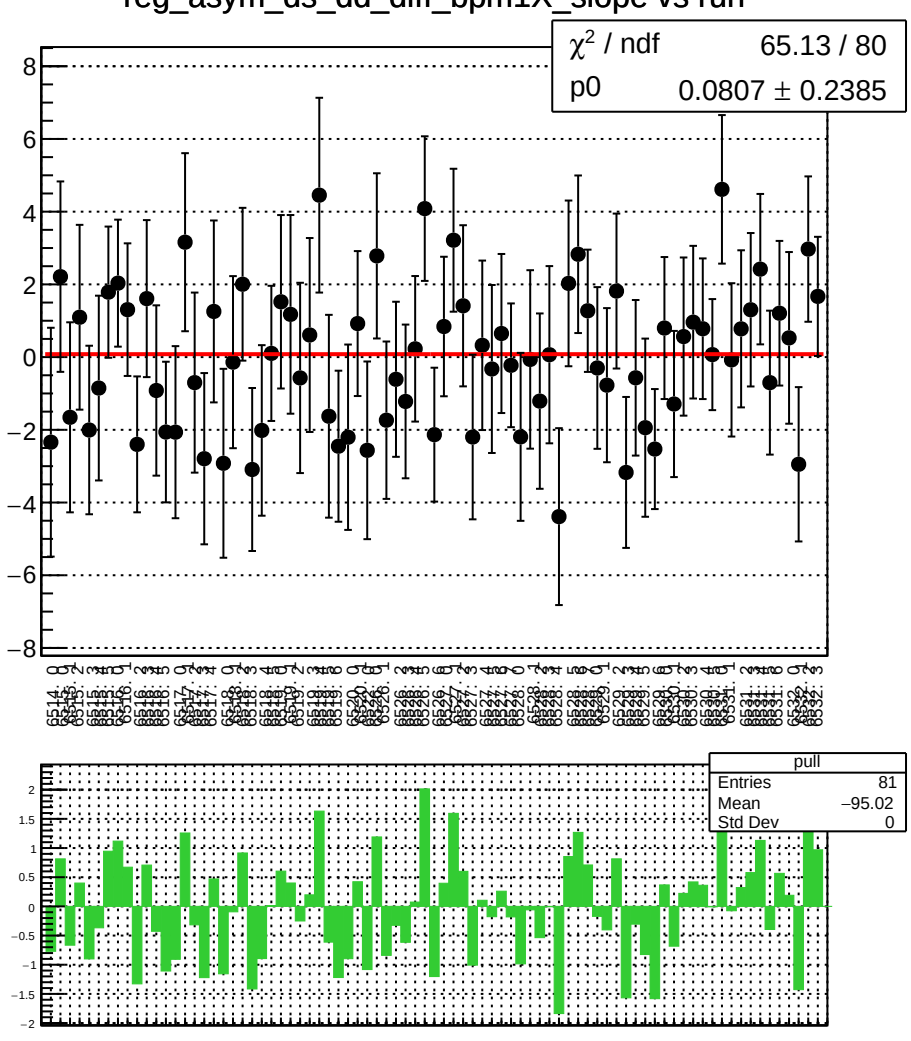

pull1D
Entries 81
Mean −0.02184
Std Dev 1.05

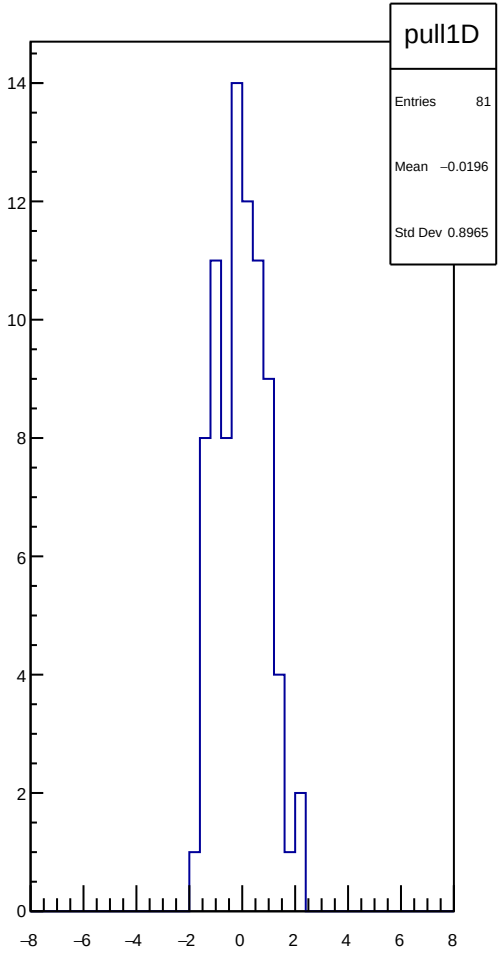

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 77.07 / 80
p0 −0.2514 ± 0.2847
pull
Entries 81
Mean 68.47
Std Dev 0

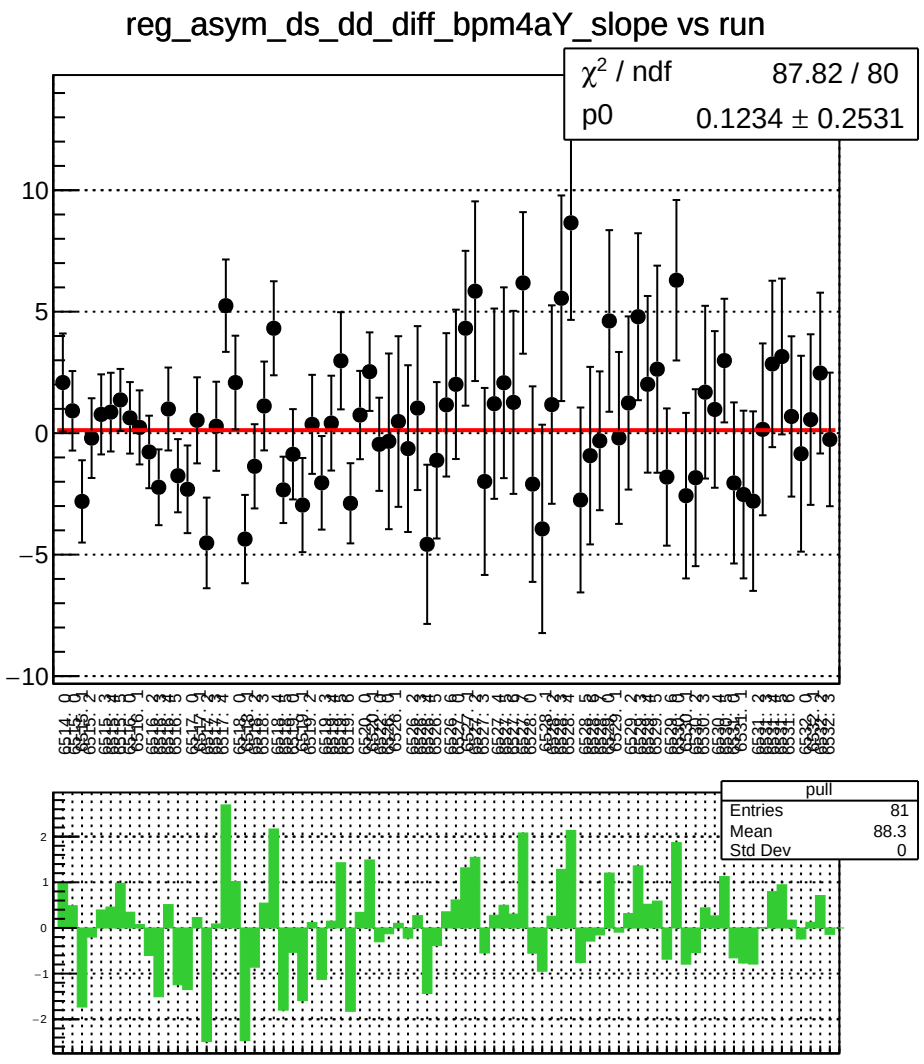

pull1D
Entries 81
Mean 0.06412
Std Dev 0.9734

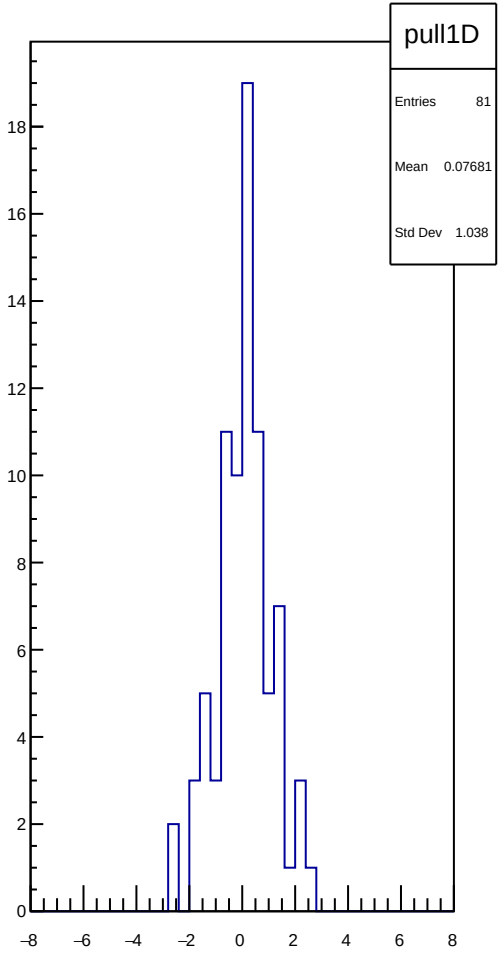

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 50.61 / 80
p0 0.01529 ± 0.009784
pull
Entries 81
Mean −218.6
Std Dev 0

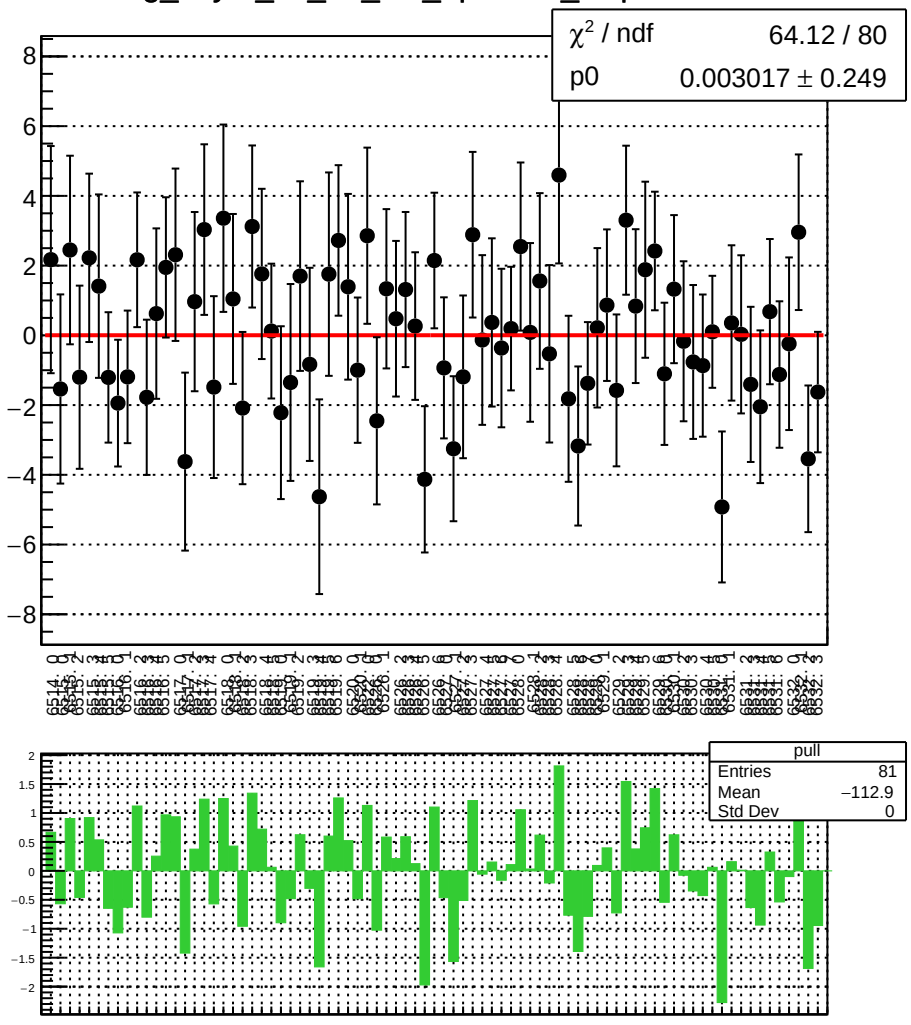

pull1D
Entries 81
Mean 0.005275
Std Dev 0.7904

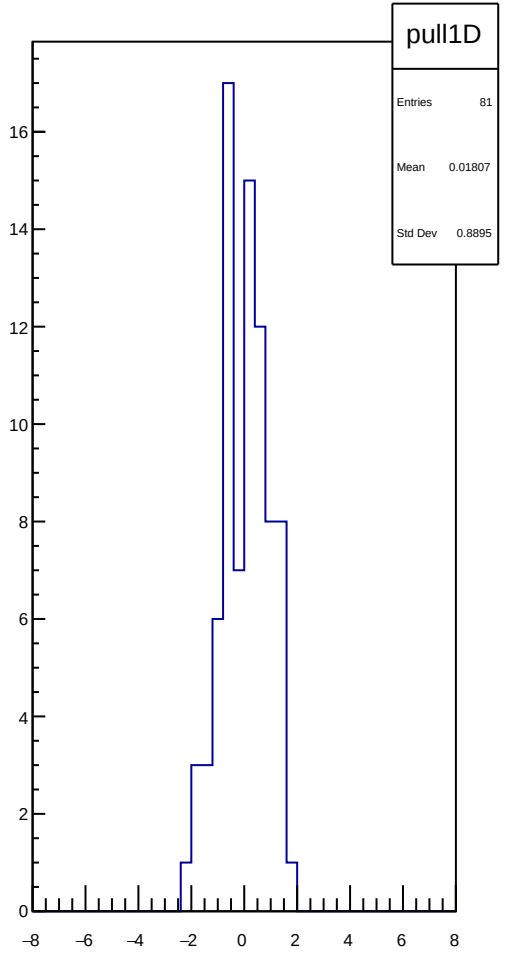

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 65.13 / 80
p0 0.0807 ± 0.2385
pull
Entries 81
Mean −95.02
Std Dev 0

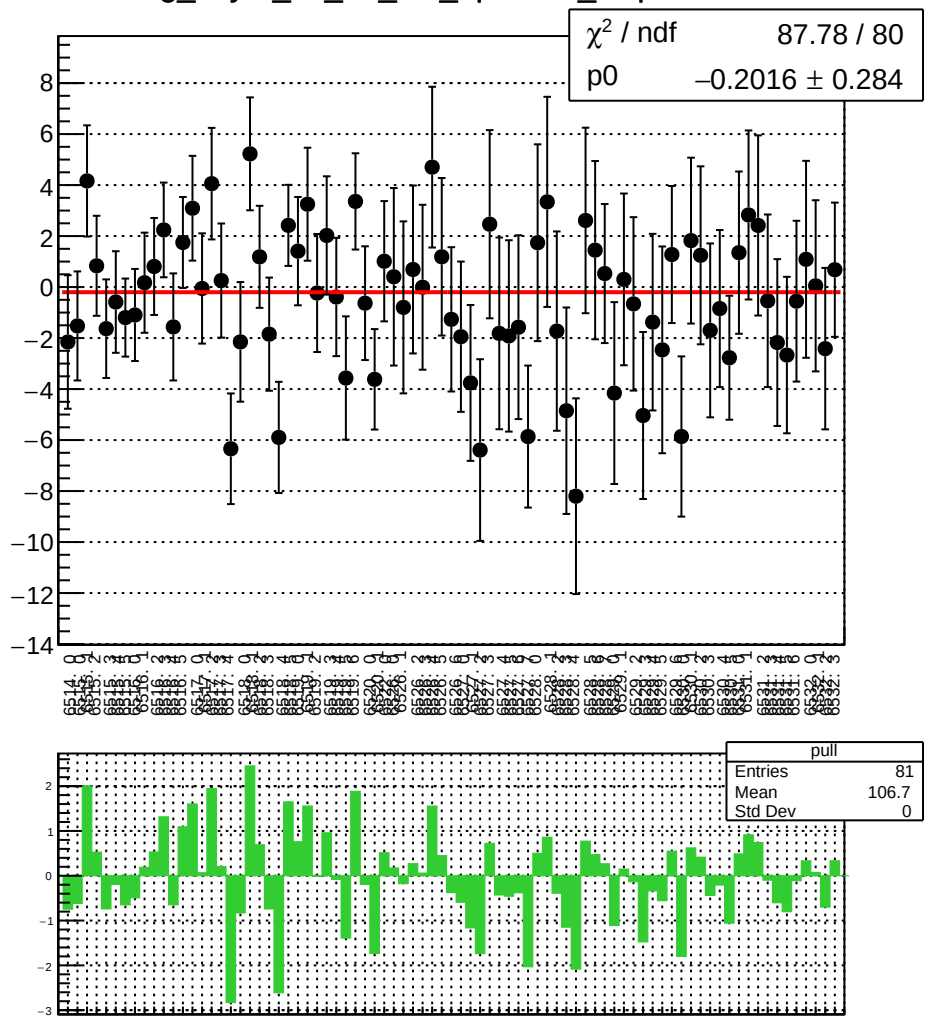

pull1D
Entries 81
Mean −0.0196
Std Dev 0.8965

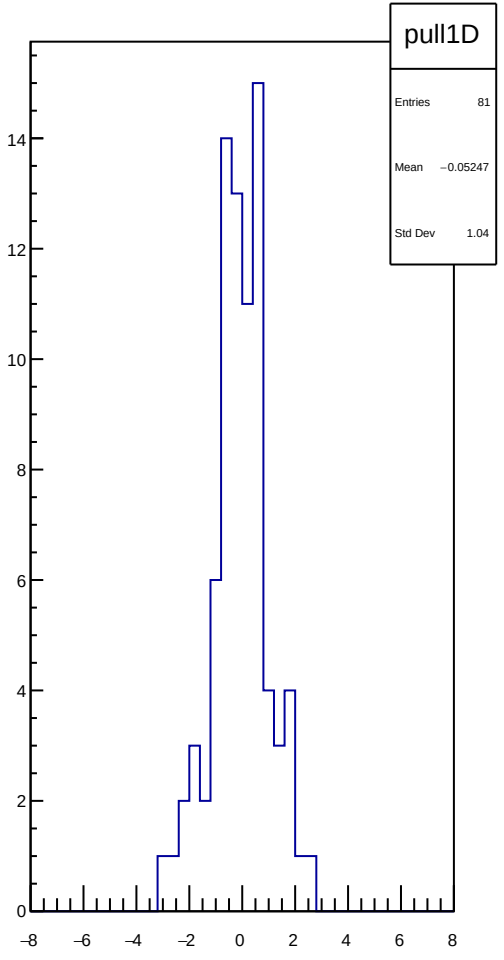

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 87.82 / 80
p0 0.1234 ± 0.2531
pull
Entries 81
Mean 88.3
Std Dev 0

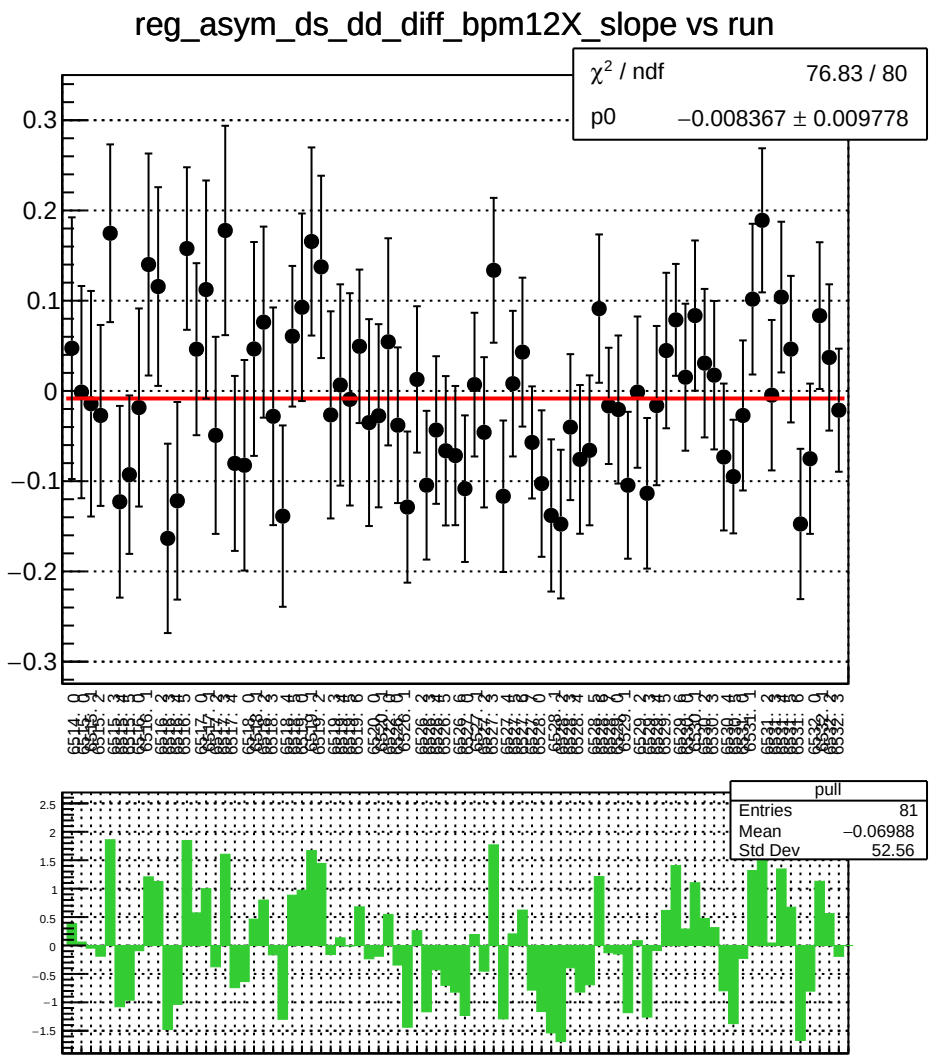

pull1D
Entries 81
Mean 0.07681
Std Dev 1.038

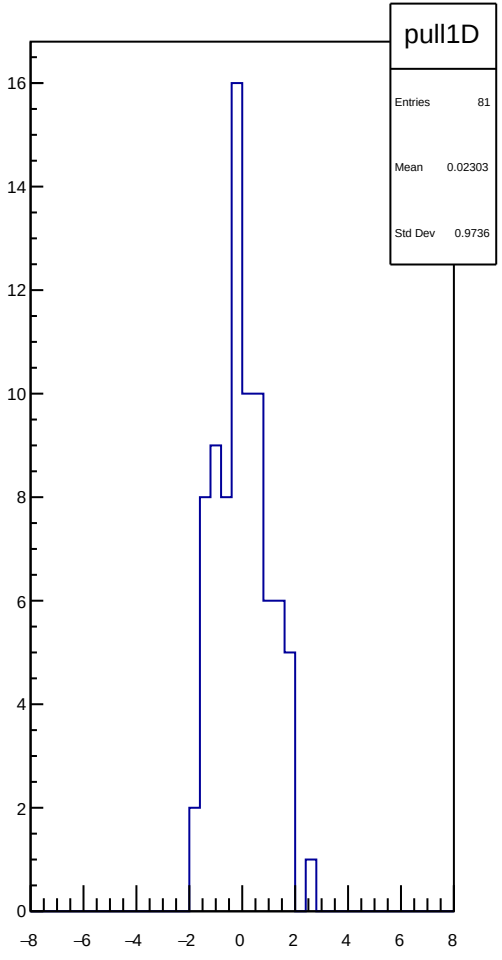

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 64.12 / 80
p0 0.003017 ± 0.249
pull
Entries 81
Mean −112.9
Std Dev 0

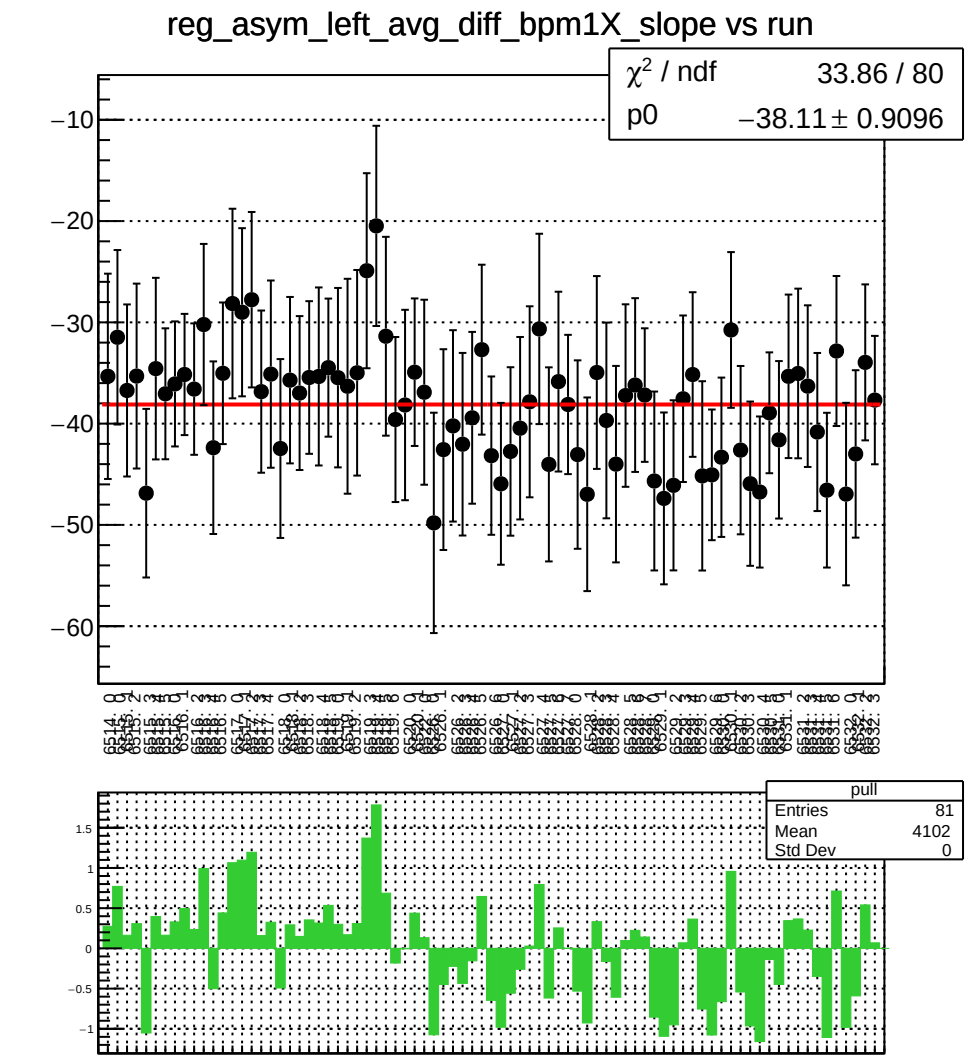

pull1D
Entries 81
Mean 0.01807
Std Dev 0.8895

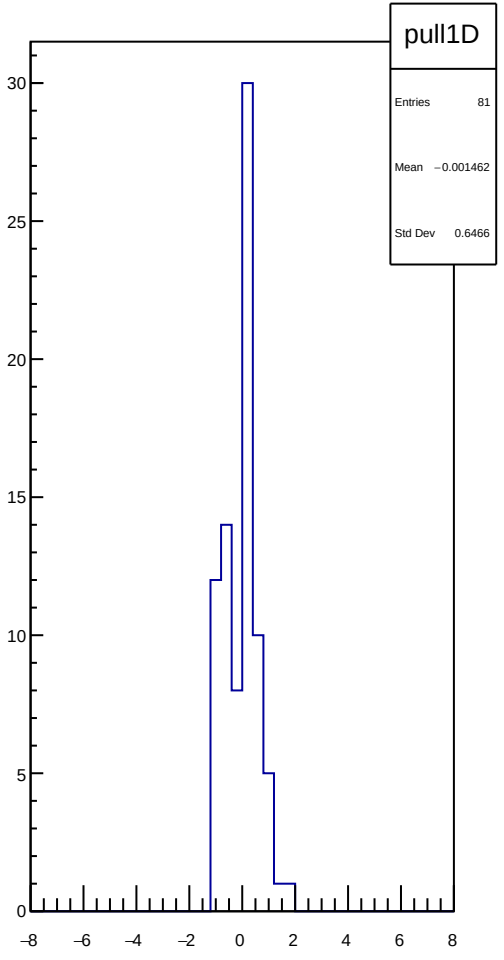

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 87.78 / 80
p0 −0.2016 ± 0.284
pull
Entries 81
Mean 106.7
Std Dev 0

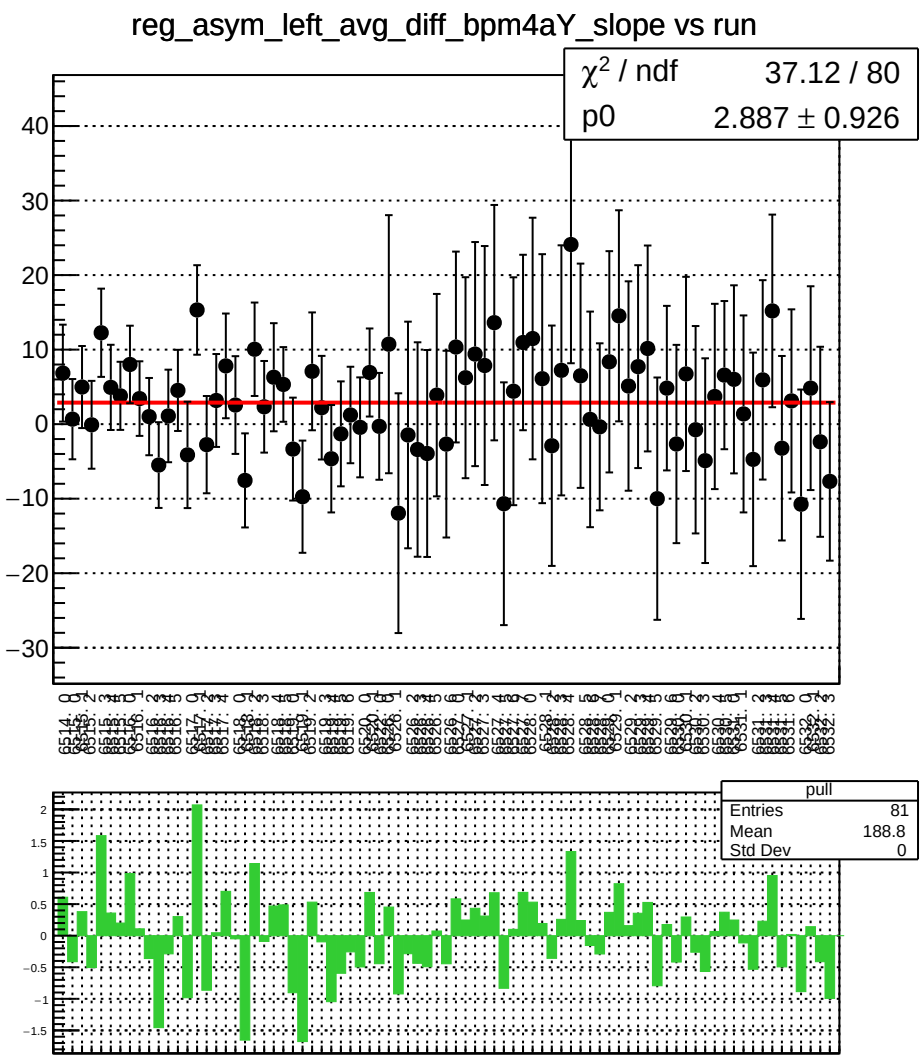

pull1D
Entries 81
Mean −0.05247
Std Dev 1.04

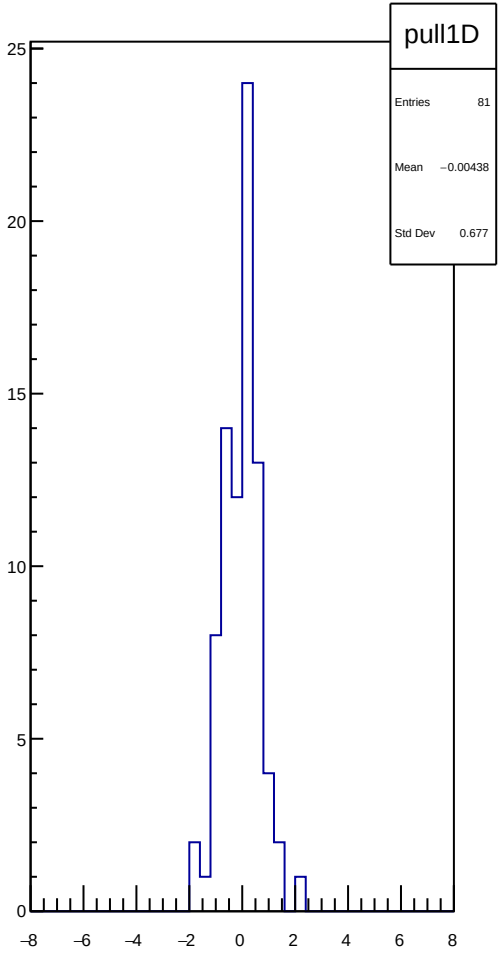

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 76.83 / 80
p0 −0.008367 ± 0.009778
pull
Entries 81
Mean −0.06988
Std Dev 52.56

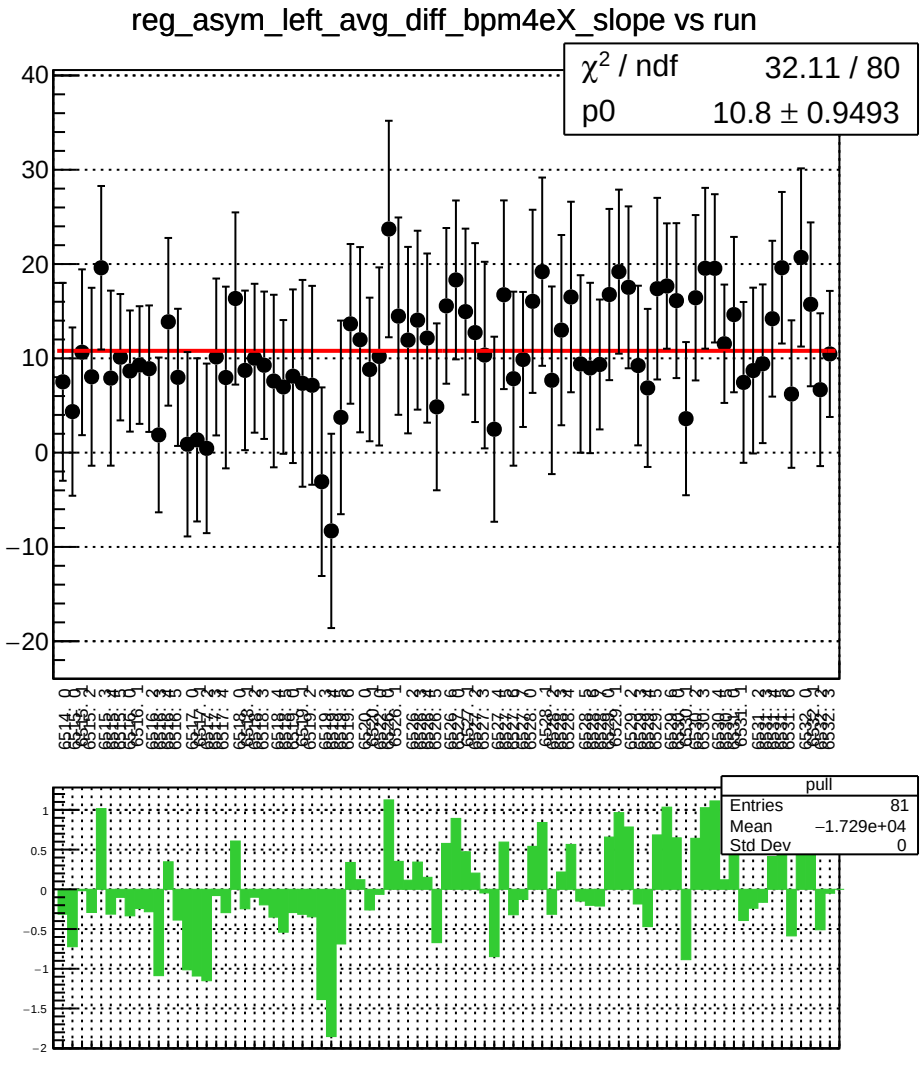

pull1D
Entries 81
Mean 0.02303
Std Dev 0.9736

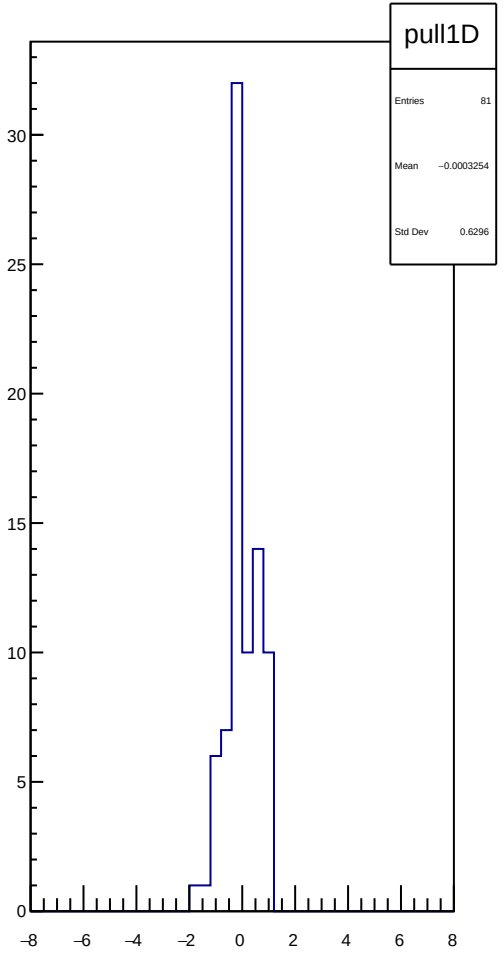

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 33.86 / 80
p0 −38.11 ± 0.9096
pull
Entries 81
Mean 4102
Std Dev 0

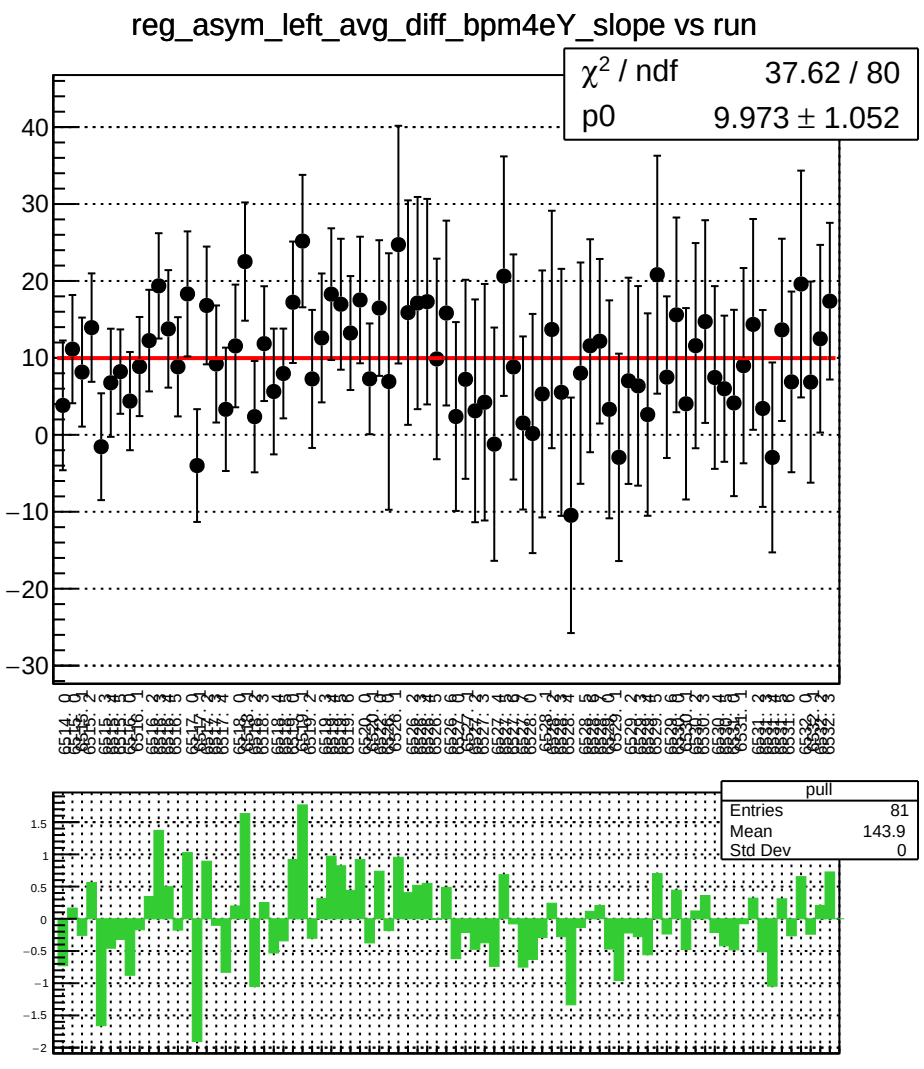

pull1D
Entries 81
Mean −0.001462
Std Dev 0.6466

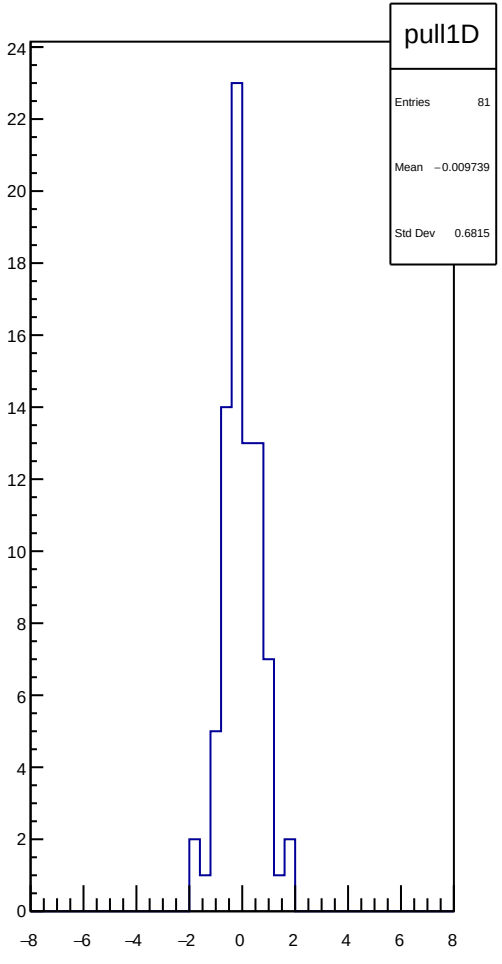

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 37.12 / 80
p0 2.887 ± 0.926
pull
Entries 81
Mean 188.8
Std Dev 0

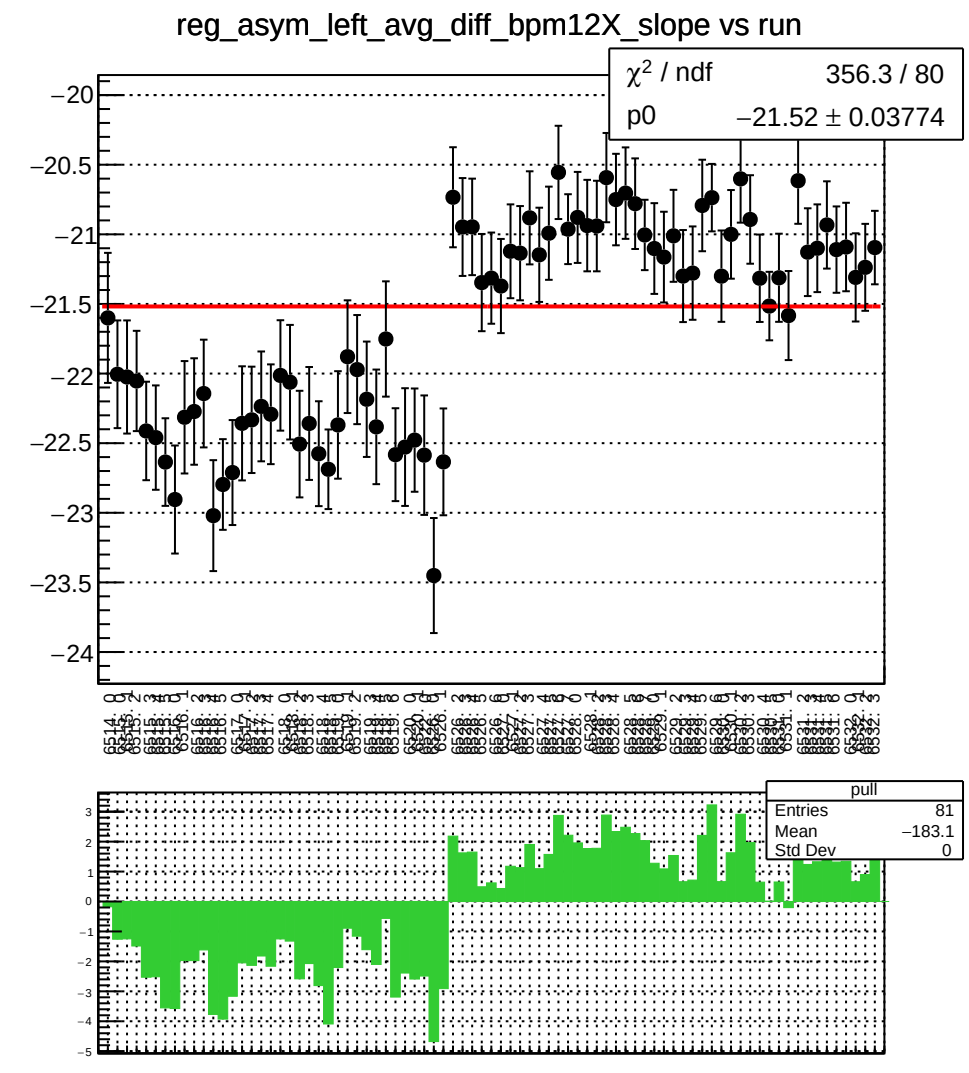

pull1D
Entries 81
Mean −0.00438
Std Dev 0.677

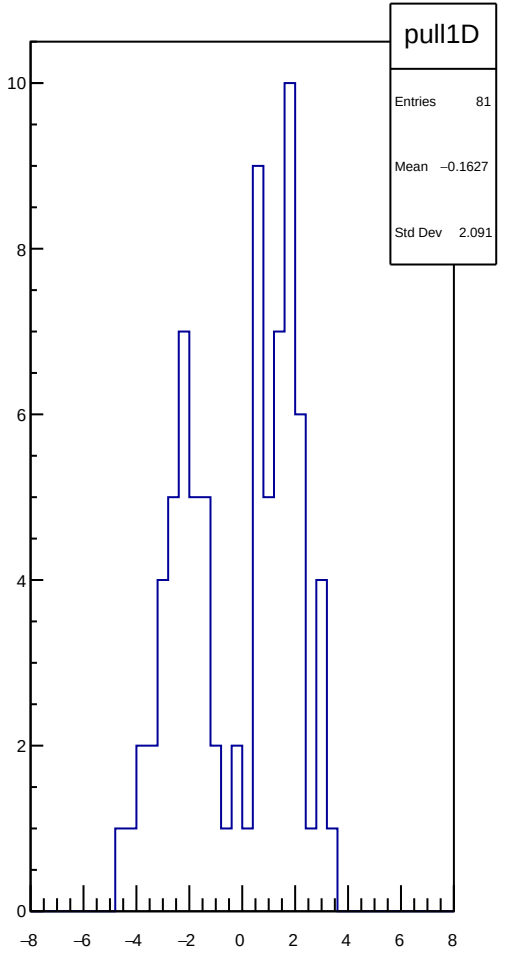

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 32.11 / 80
p0 10.8 ± 0.9493
pull
Entries 81
Mean −1.729e+04
Std Dev 0

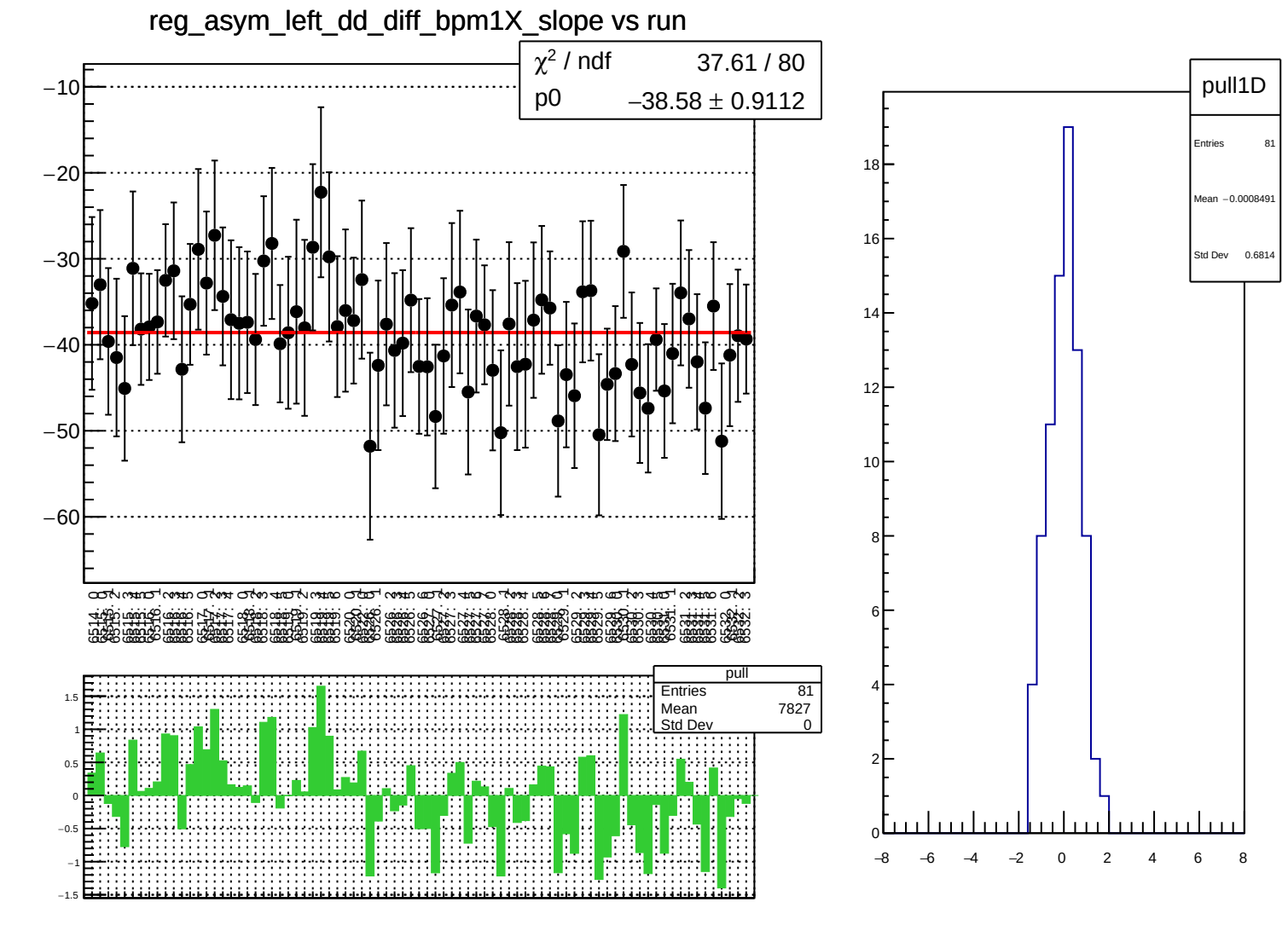

pull1D
Entries 81
Mean −0.0003254
Std Dev 0.6296

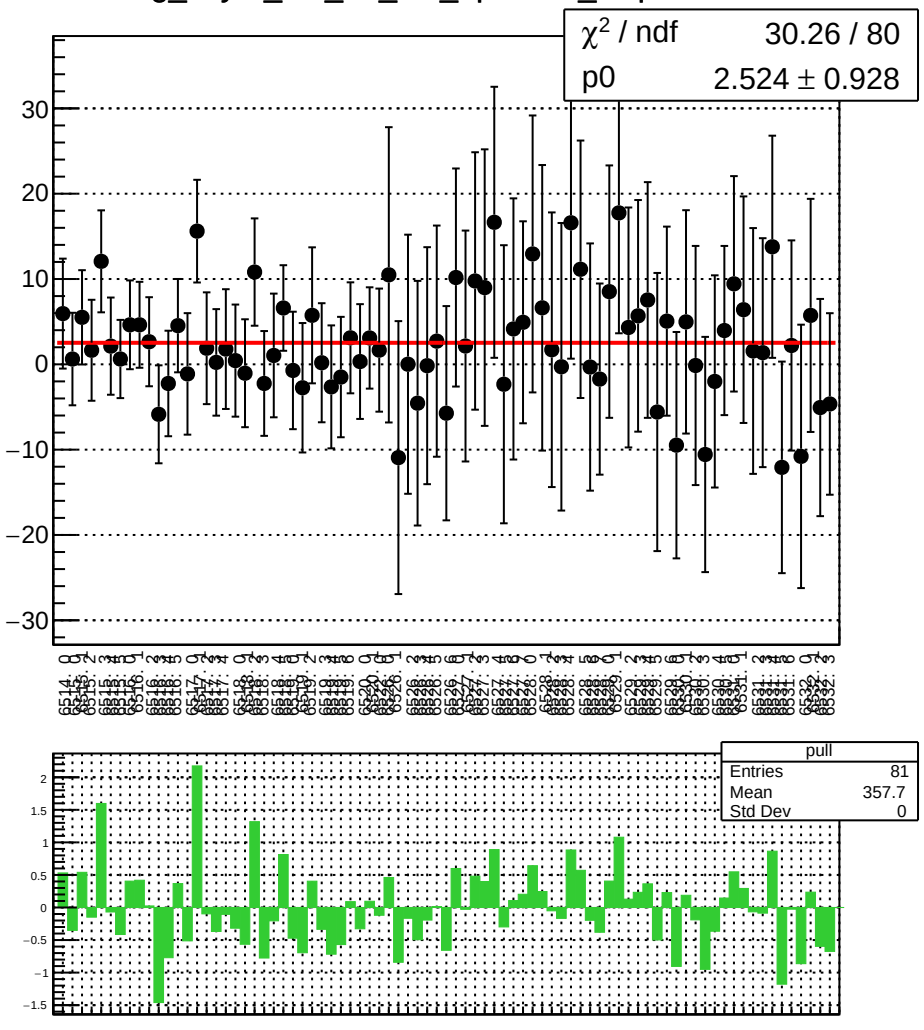

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 37.62 / 80
p0 9.973 ± 1.052
pull
Entries 81
Mean 143.9
Std Dev 0

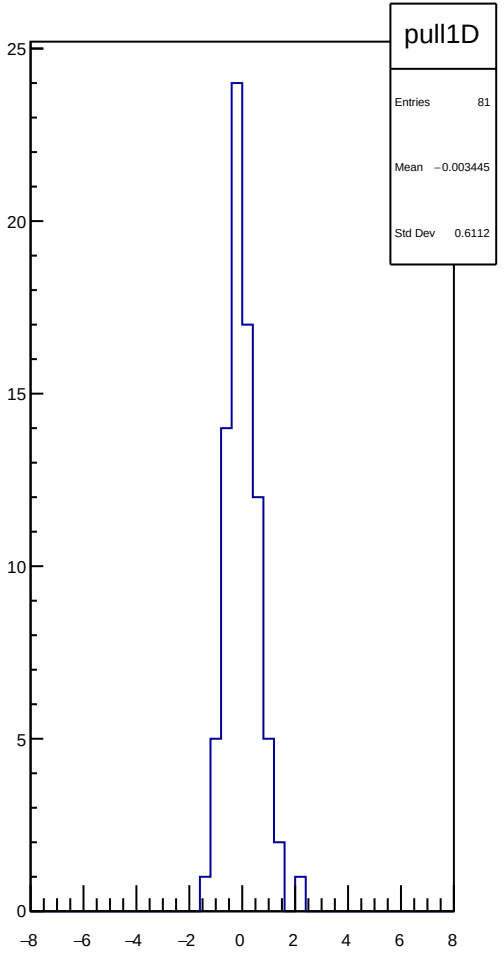

pull1D
Entries 81
Mean −0.009739
Std Dev 0.6815

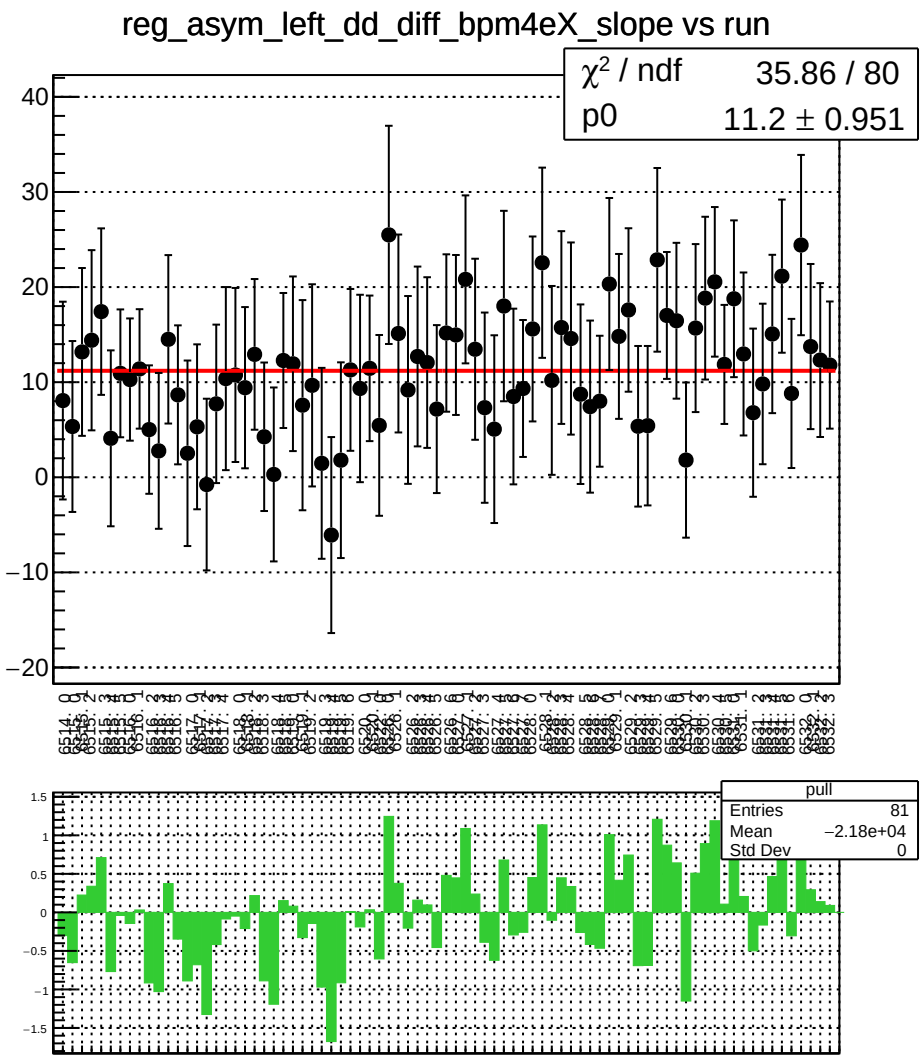

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 356.3 / 80
p0 −21.52 ± 0.03774
pull
Entries 81
Mean −183.1
Std Dev 0

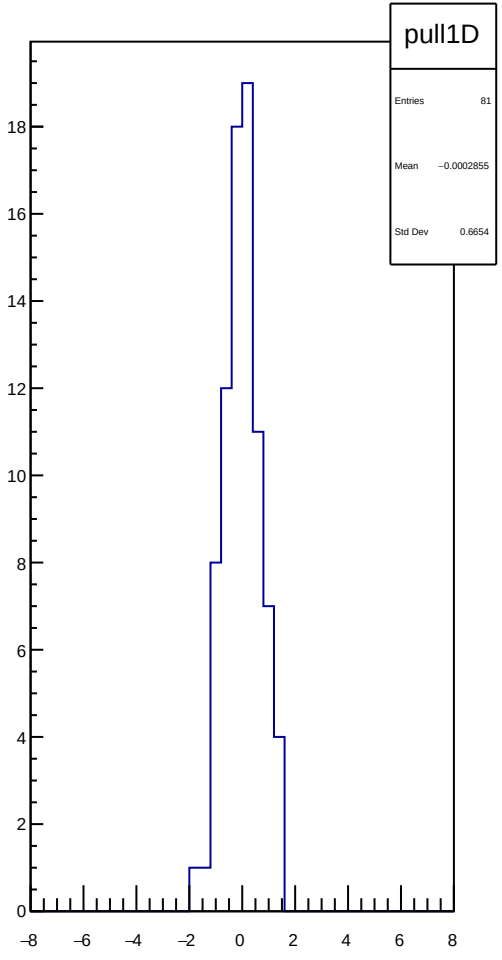

pull1D
Entries 81
Mean −0.1627
Std Dev 2.091

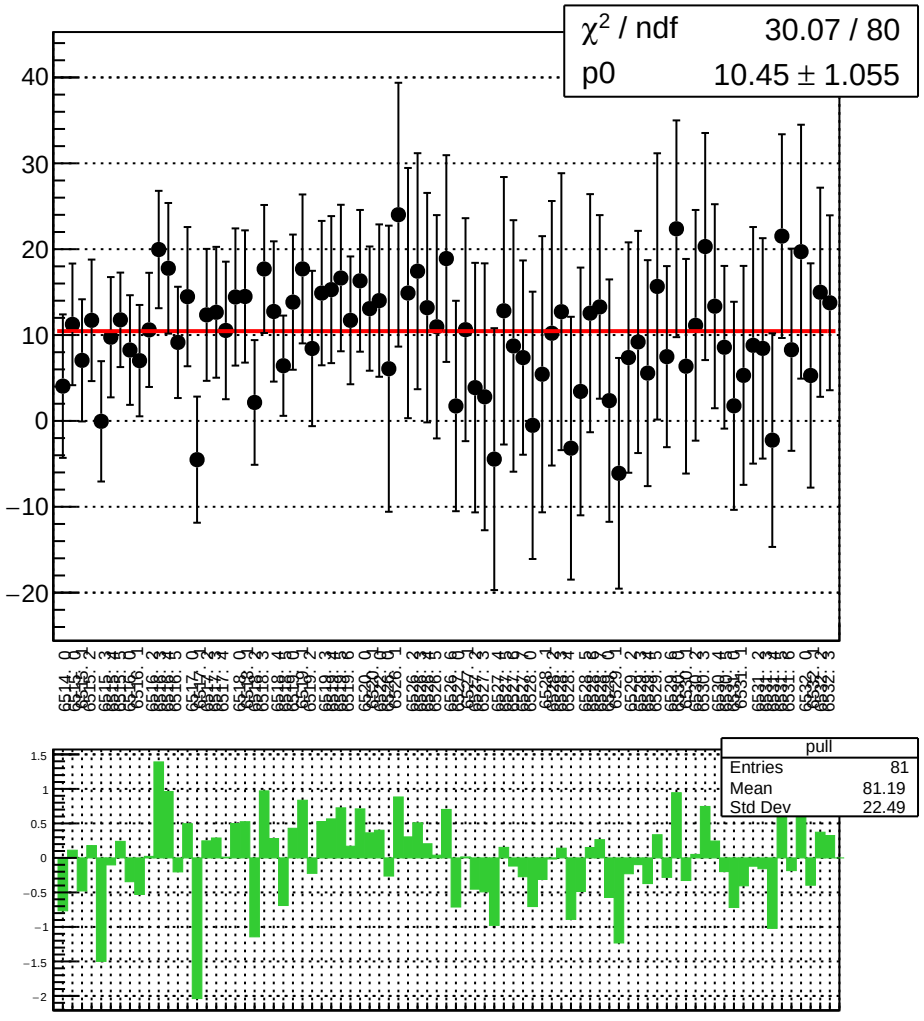

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 37.61 / 80
p0 −38.58 ± 0.9112
pull
Entries 81
Mean 7827
Std Dev 0
pull1D
Entries 81
Mean −0.0008491
Std Dev 0.6814

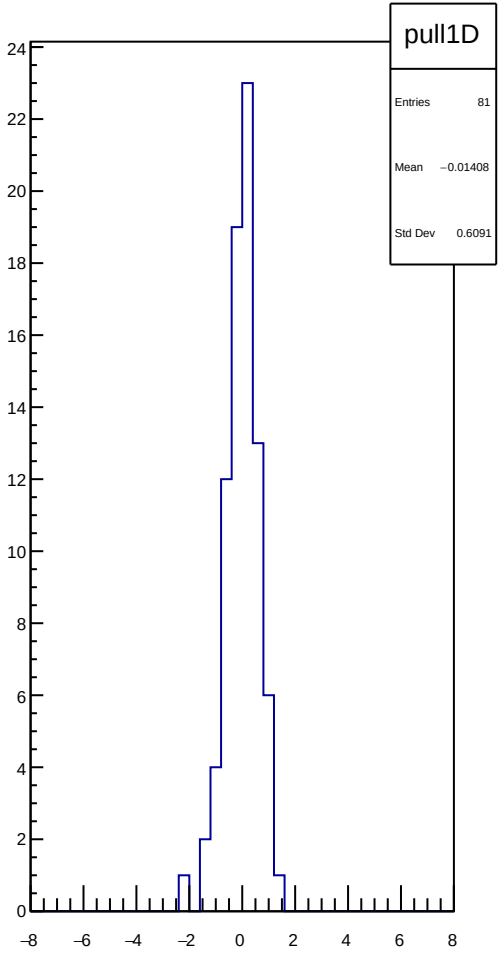

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 30.26 / 80
p0 2.524 ± 0.928
pull
Entries 81
Mean 357.7
Std Dev 0

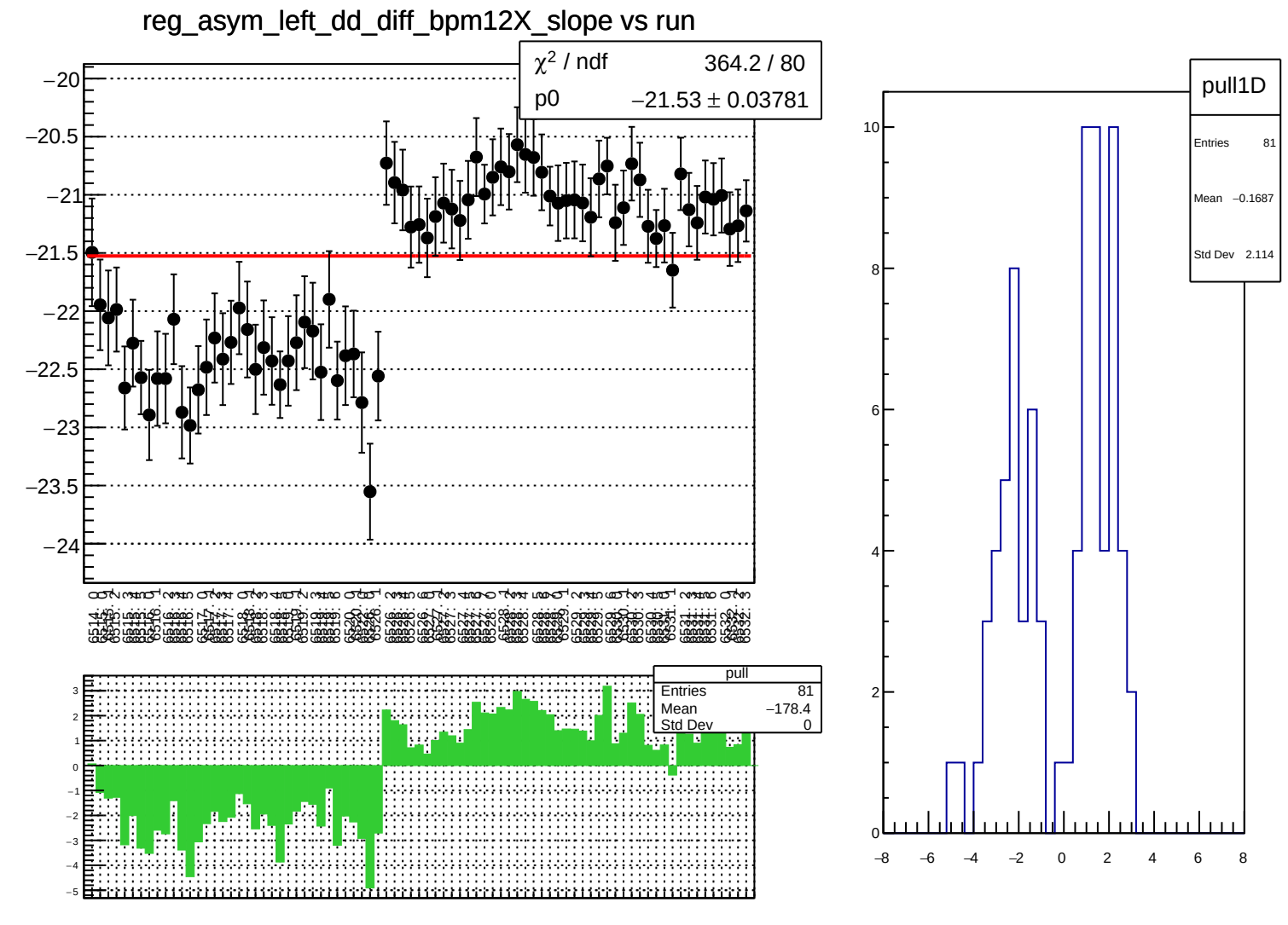

pull1D
Entries 81
Mean −0.003445
Std Dev 0.6112

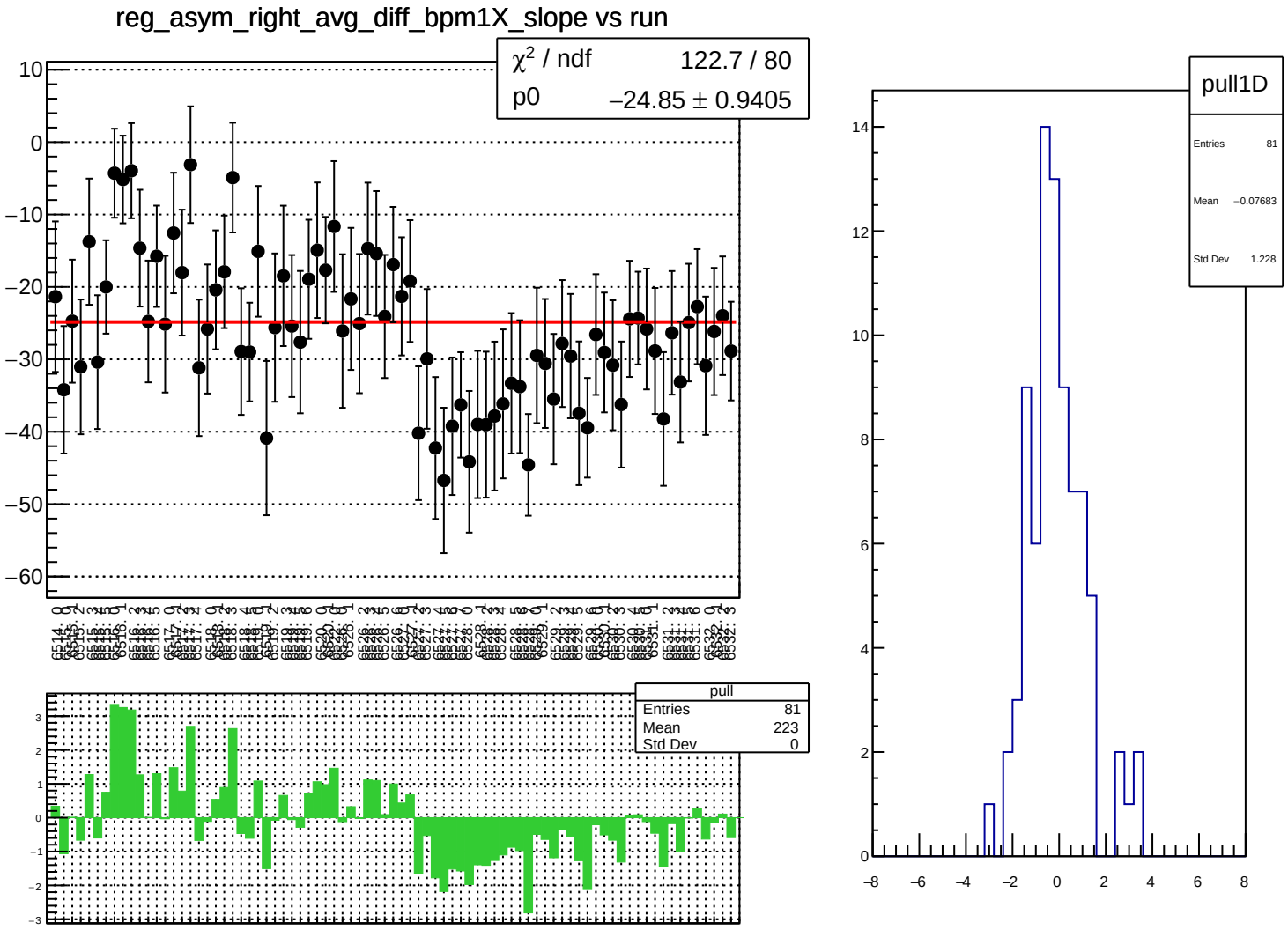

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 35.86 / 80
p0 11.2 ± 0.951
pull
Entries 81
Mean −2.18e+04
Std Dev 0

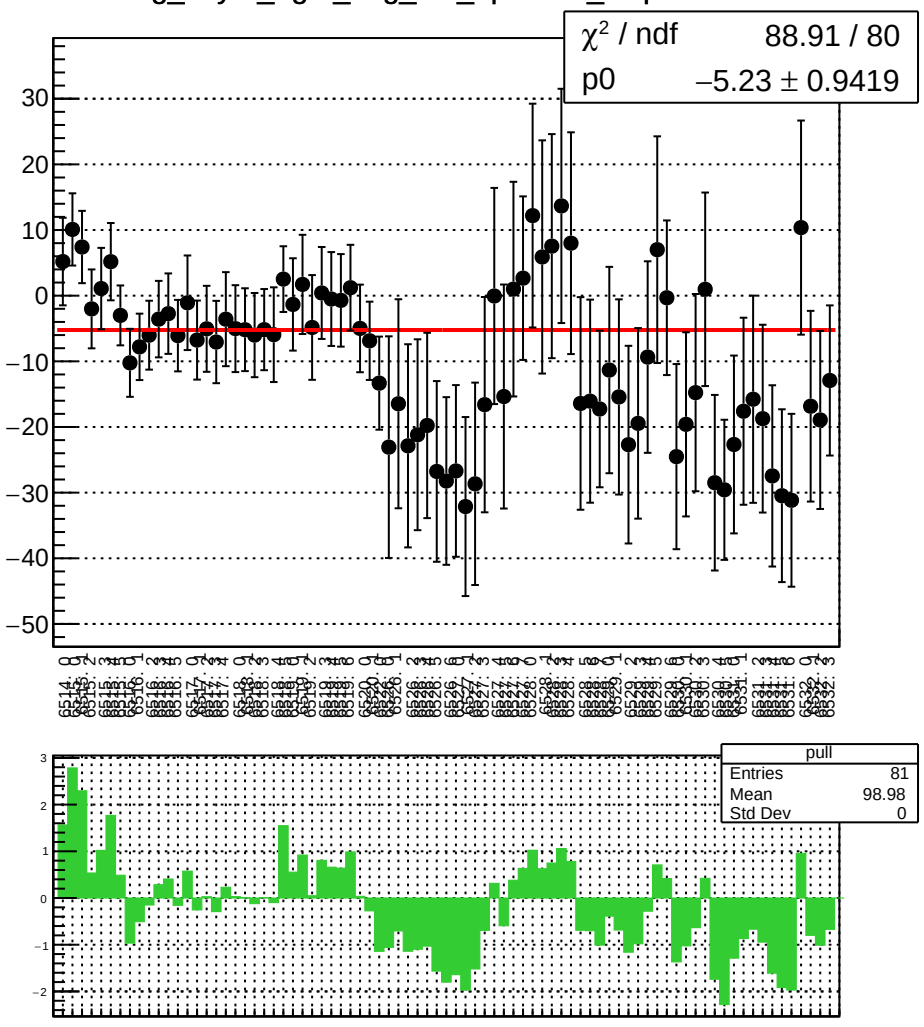

pull1D
Entries 81
Mean −0.0002855
Std Dev 0.6654

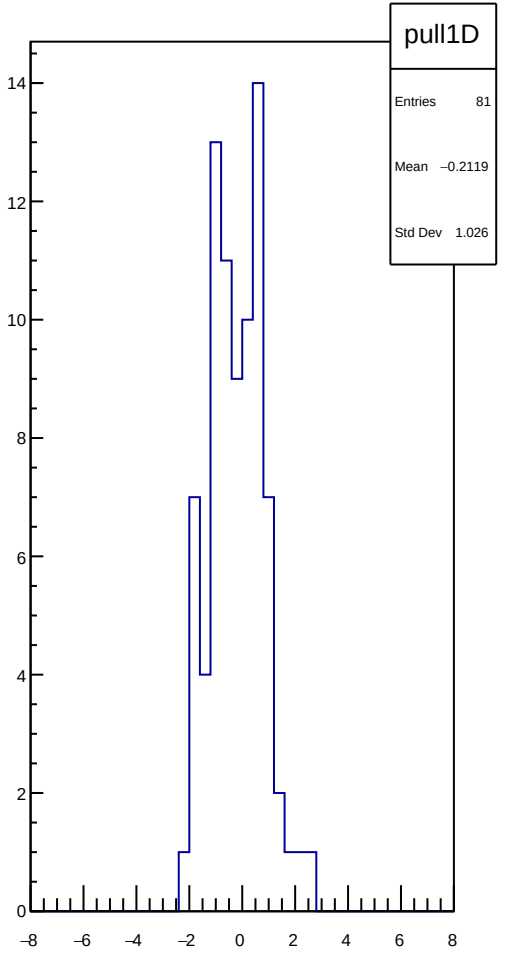

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 30.07 / 80
p0 10.45 ± 1.055
pull
Entries 81
Mean 81.19
Std Dev 22.49

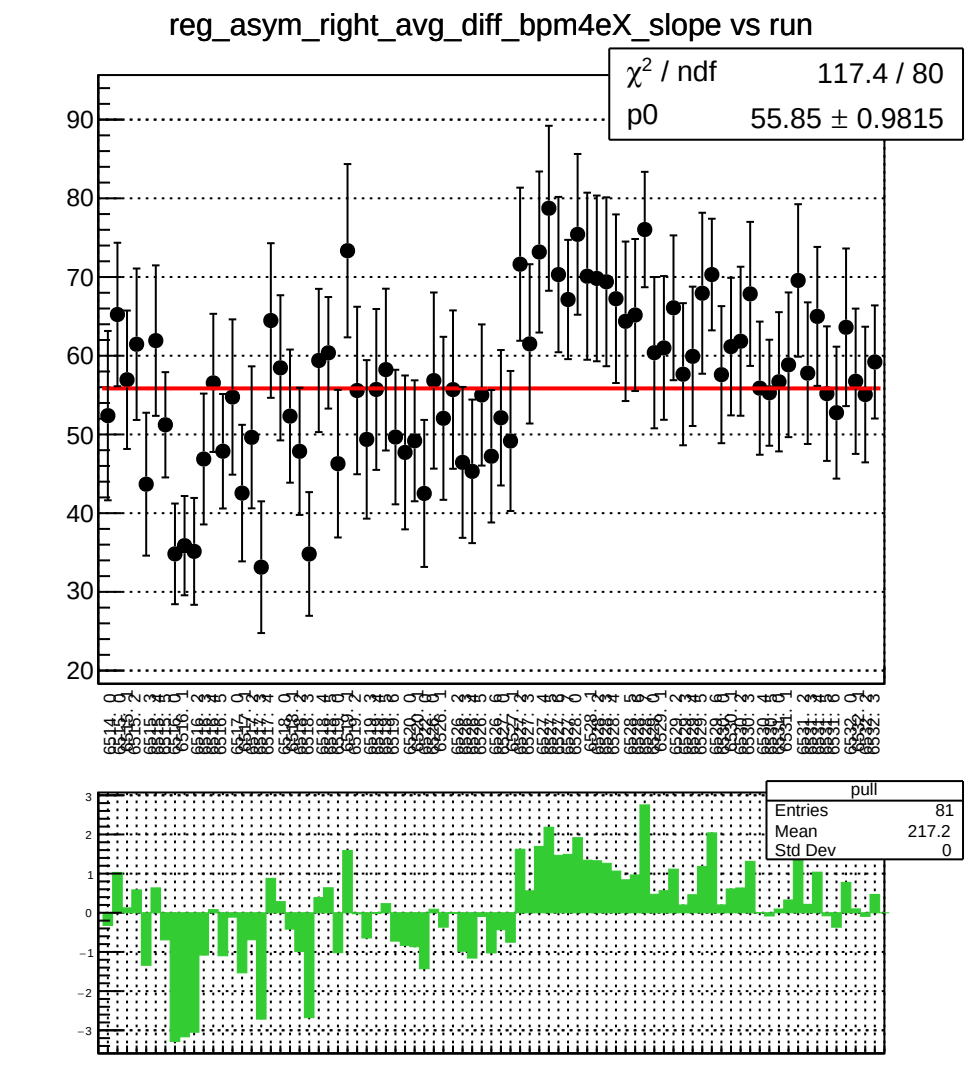

pull1D
Entries 81
Mean −0.01408
Std Dev 0.6091

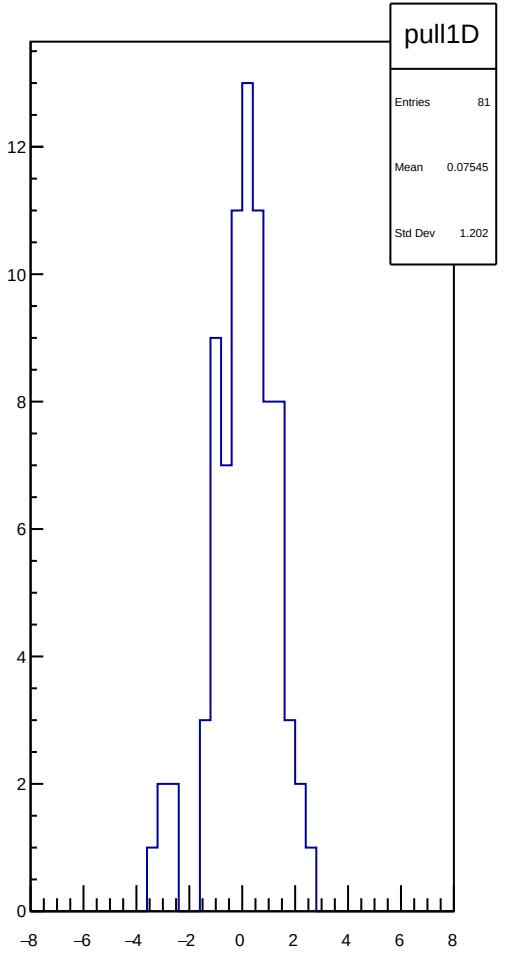

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 364.2 / 80
p0 −21.53 ± 0.03781
pull
Entries 81
Mean −178.4
Std Dev 0
pull1D
Entries 81
Mean −0.1687
Std Dev 2.114

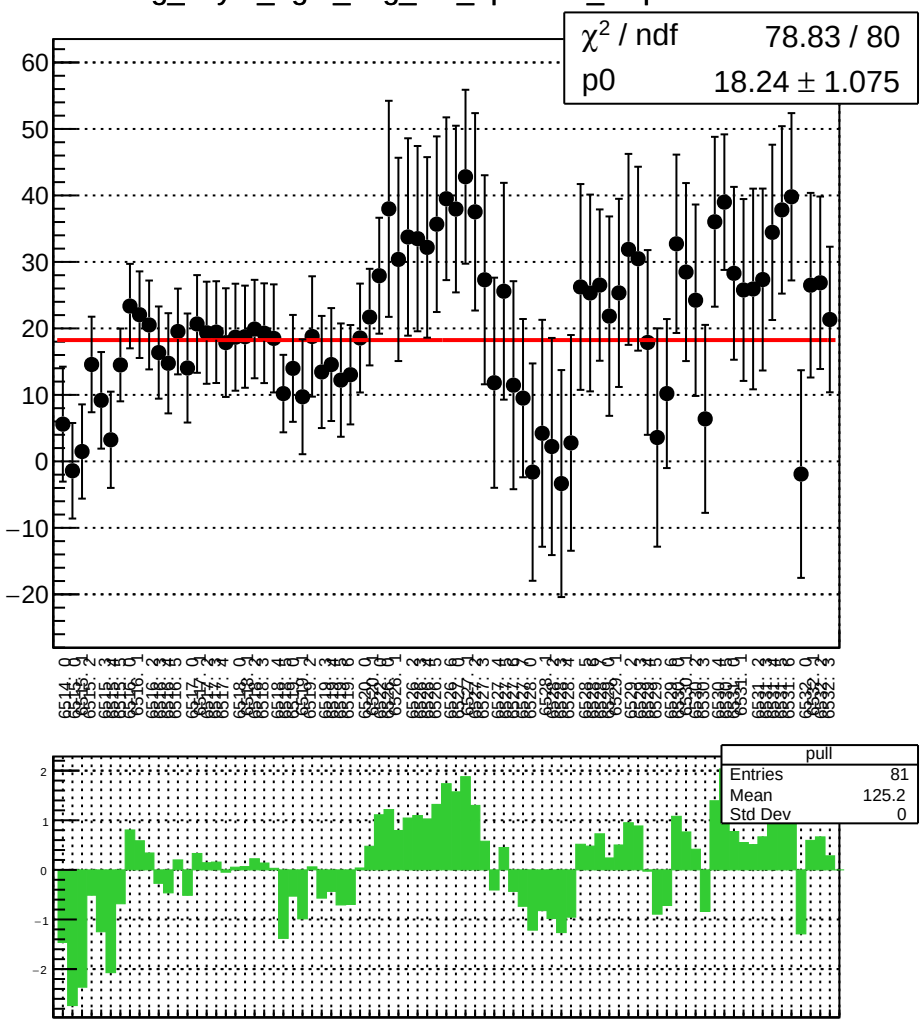

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 122.7 / 80
p0 −24.85 ± 0.9405
pull
Entries 81
Mean 223
Std Dev 0
pull1D
Entries 81
Mean −0.07683
Std Dev 1.228

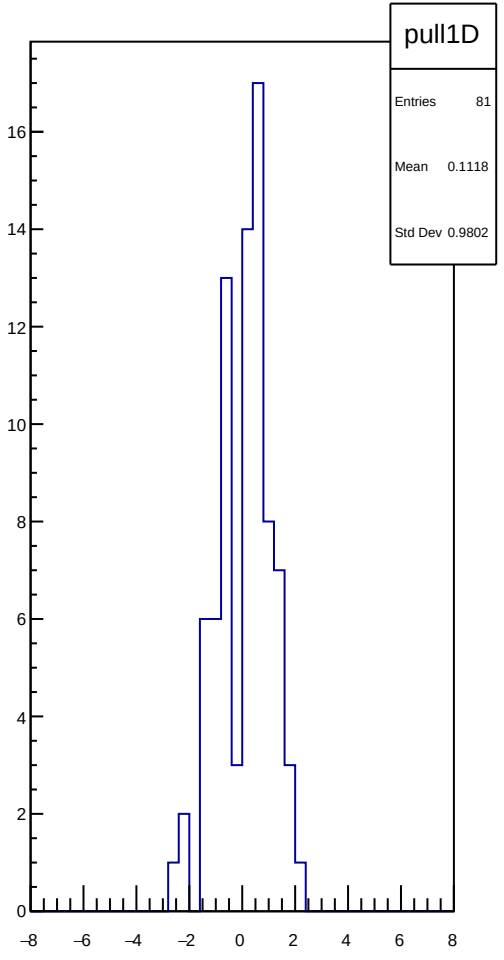

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 88.91 / 80
p0 −5.23 ± 0.9419
pull
Entries 81
Mean 98.98
Std Dev 0

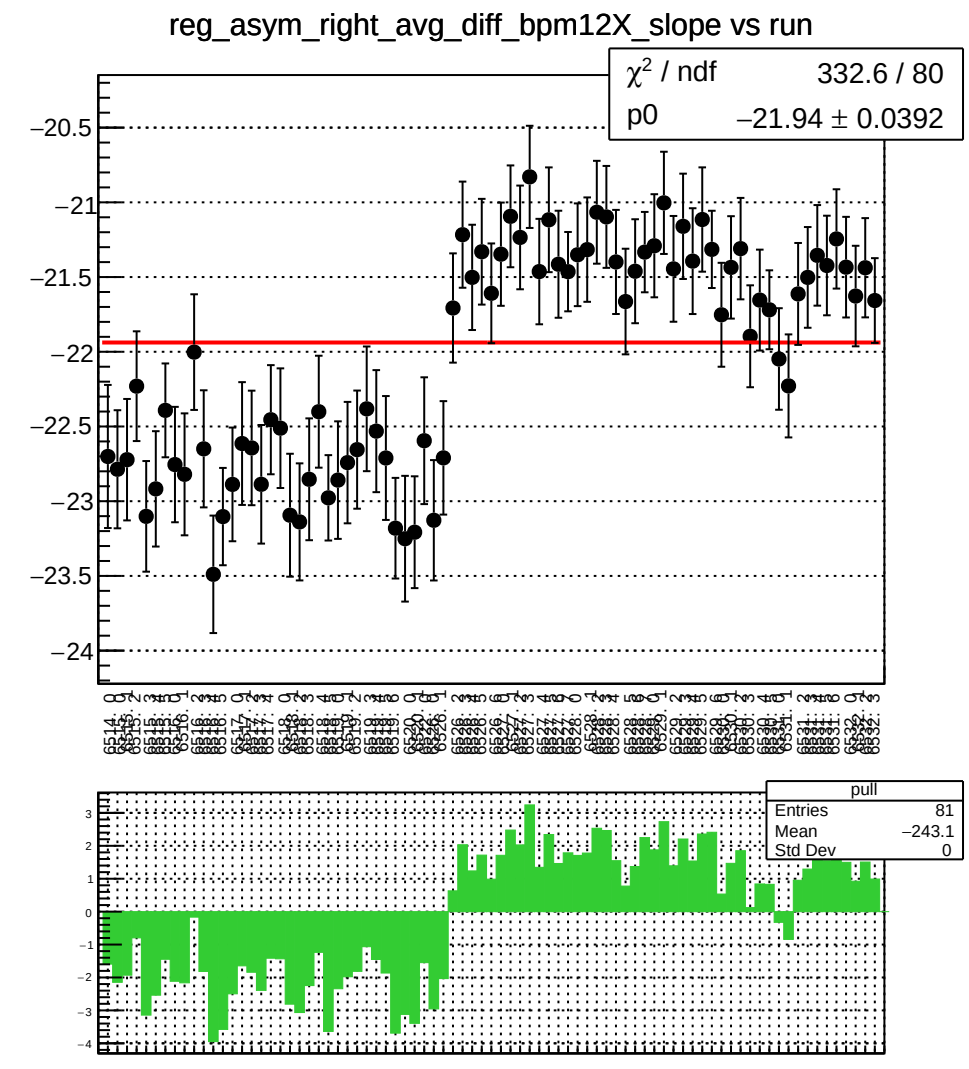

pull1D
Entries 81
Mean −0.2119
Std Dev 1.026

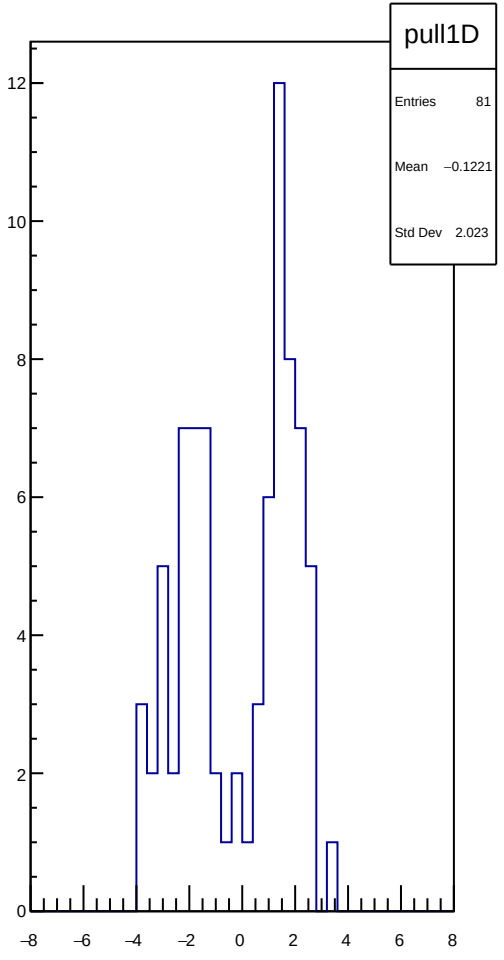

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 117.4 / 80
p0 55.85 ± 0.9815
pull
Entries 81
Mean 217.2
Std Dev 0

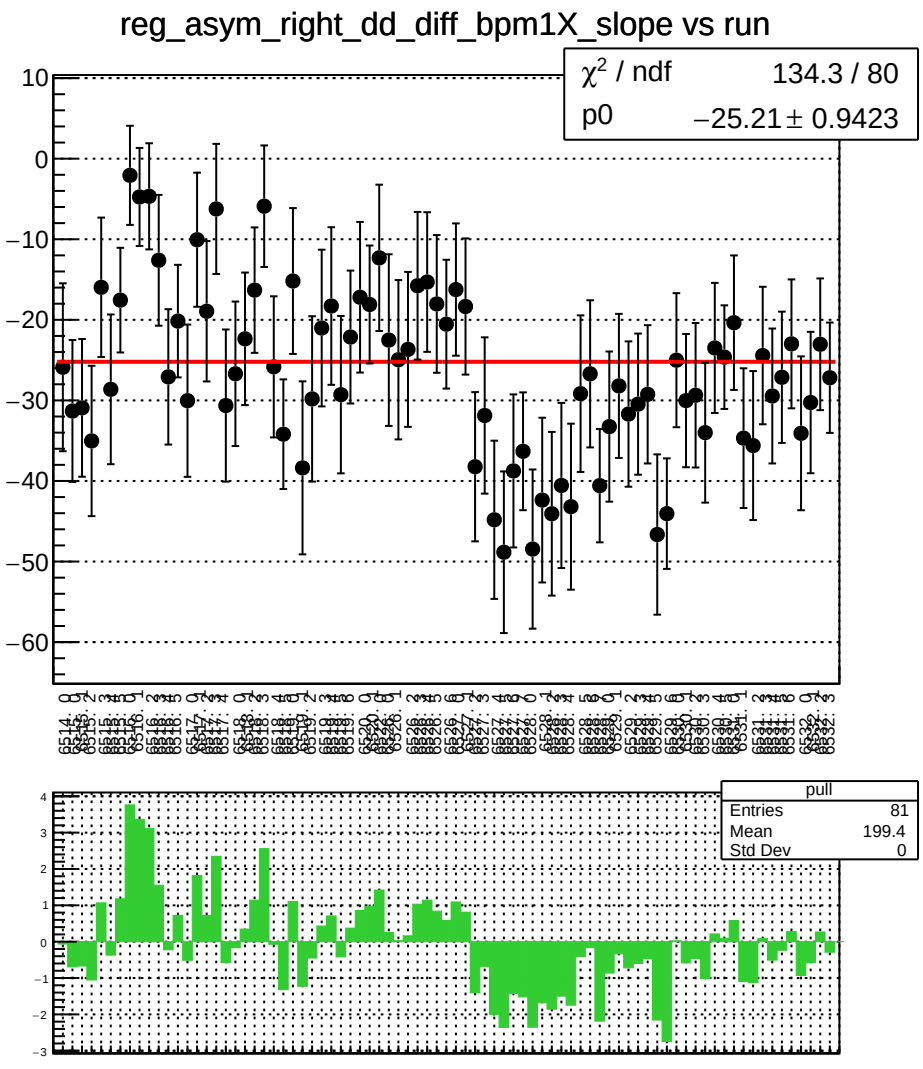

pull1D
Entries 81
Mean 0.07545
Std Dev 1.202

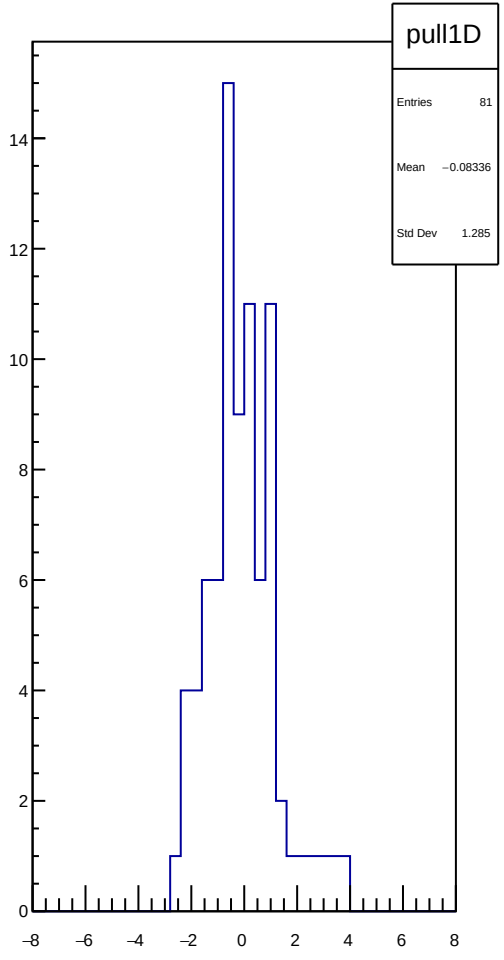

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 78.83 / 80
p0 18.24 ± 1.075
pull
Entries 81
Mean 125.2
Std Dev 0

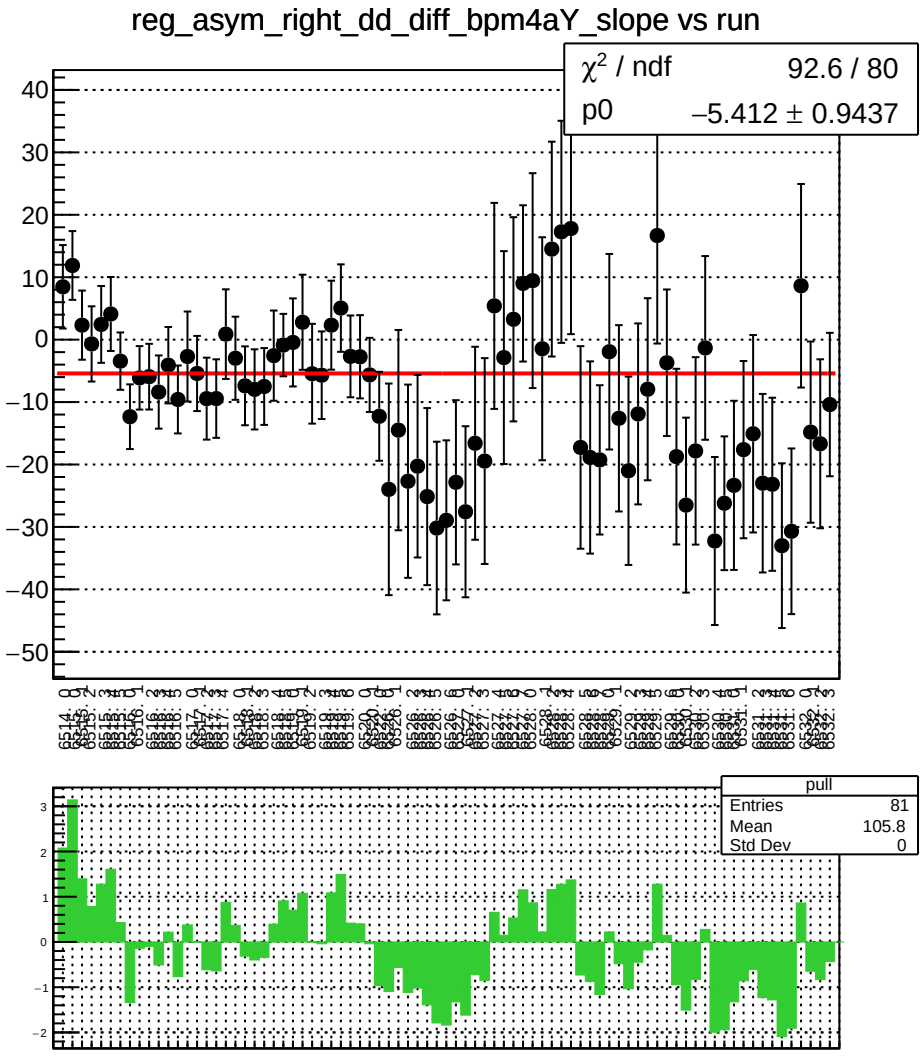

pull1D
Entries 81
Mean 0.1118
Std Dev 0.9802

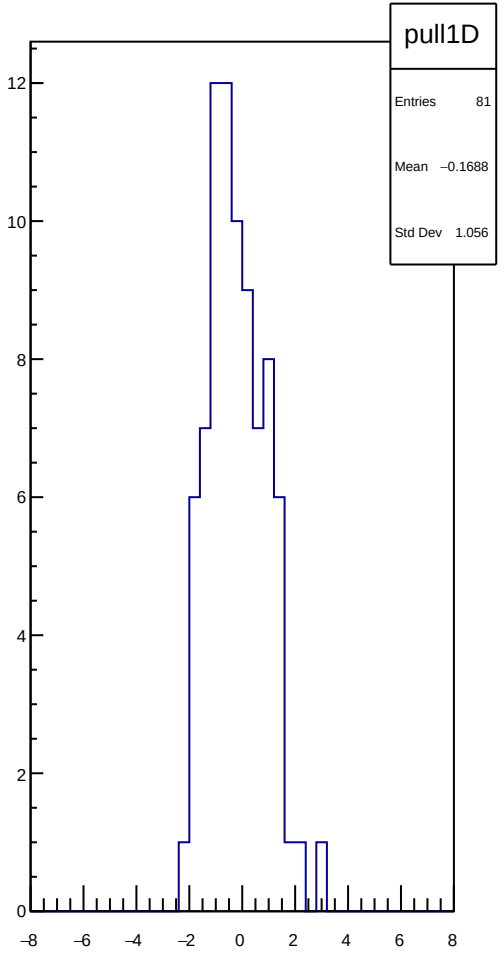

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 332.6 / 80
p0 −21.94 ± 0.0392
−20.5
−21
−21.5
−22
−22.5
−23
−23.5
−24
pull
Entries 81
Mean −243.1
Std Dev 0
3
2
1
0
−1
−2
−3
−4

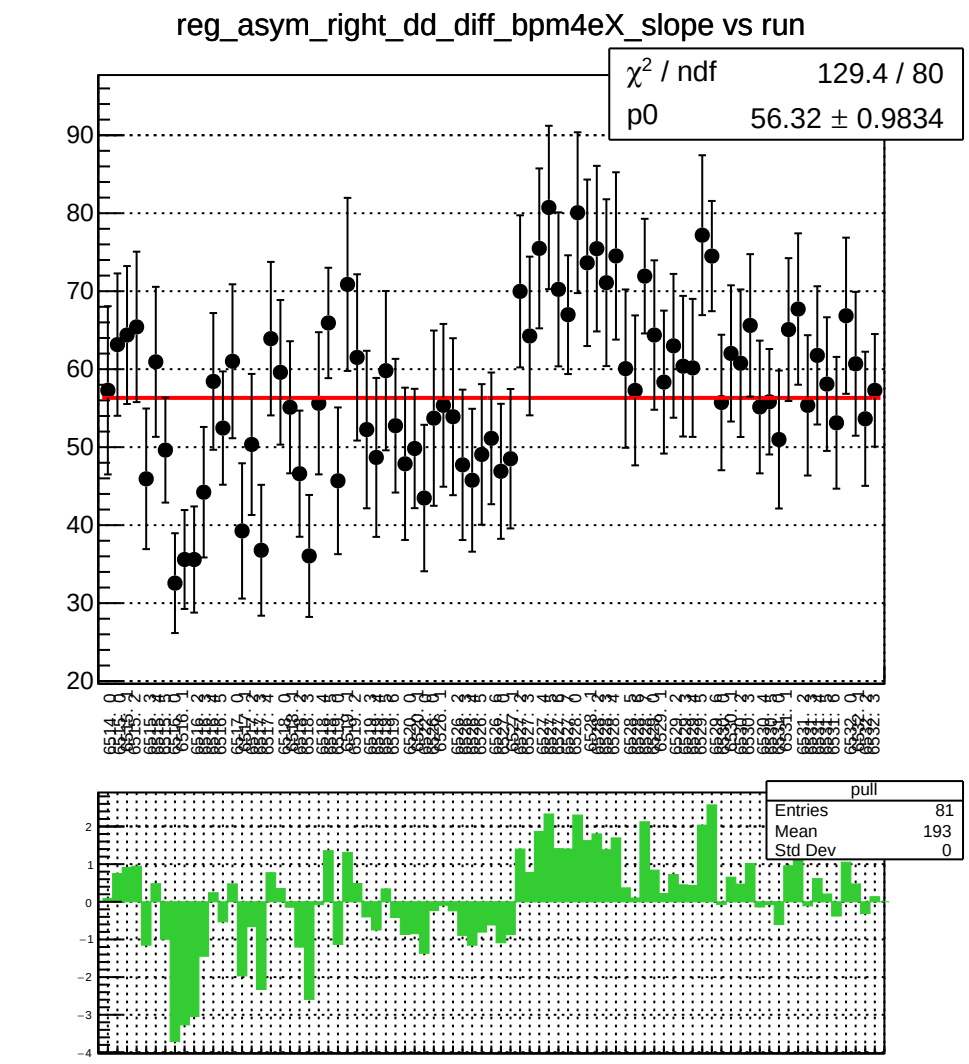

pull1D
Entries 81
Mean −0.1221
Std Dev 2.023
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

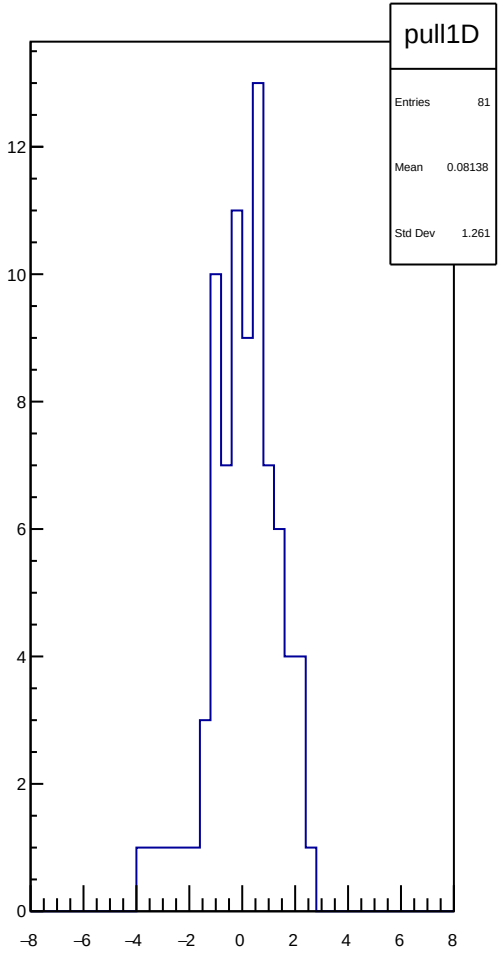

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 134.3 / 80
p0 −25.21 ± 0.9423
pull
Entries 81
Mean 199.4
Std Dev 0

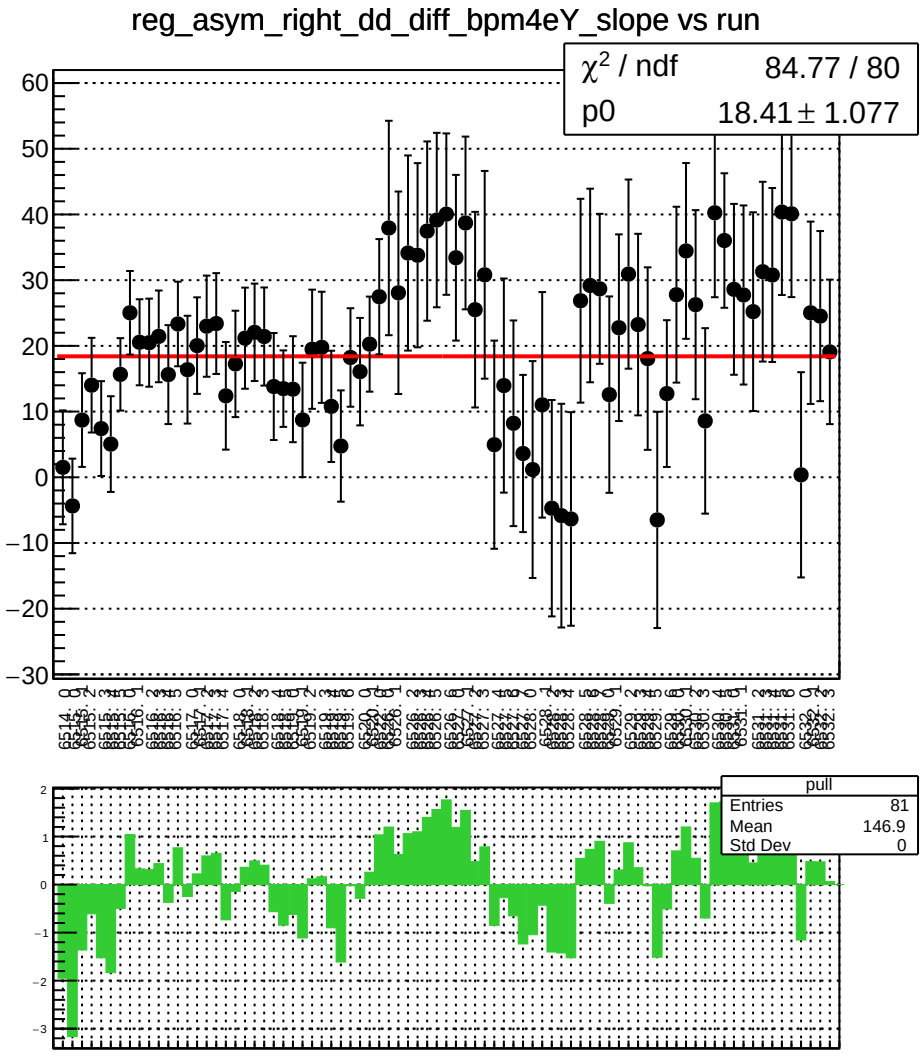

pull1D
Entries 81
Mean −0.08336
Std Dev 1.285

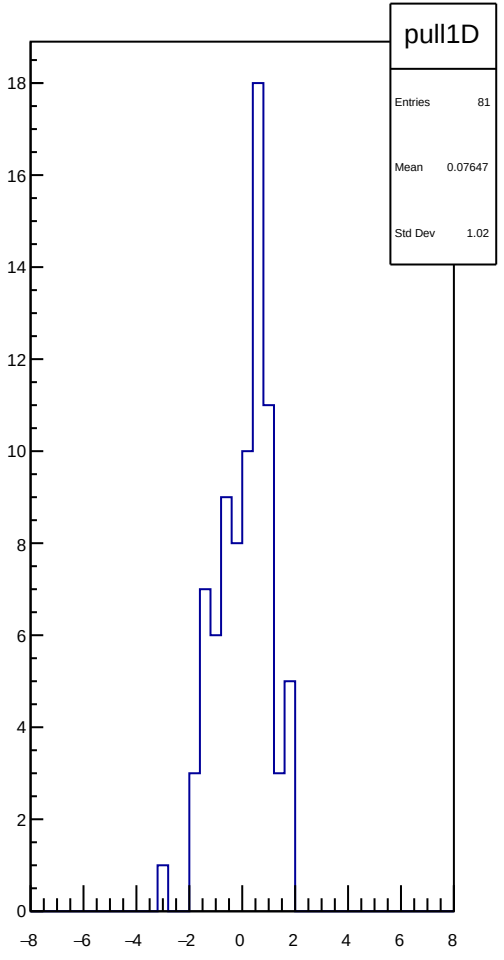

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 92.6 / 80
p0 −5.412 ± 0.9437
pull
Entries 81
Mean 105.8
Std Dev 0

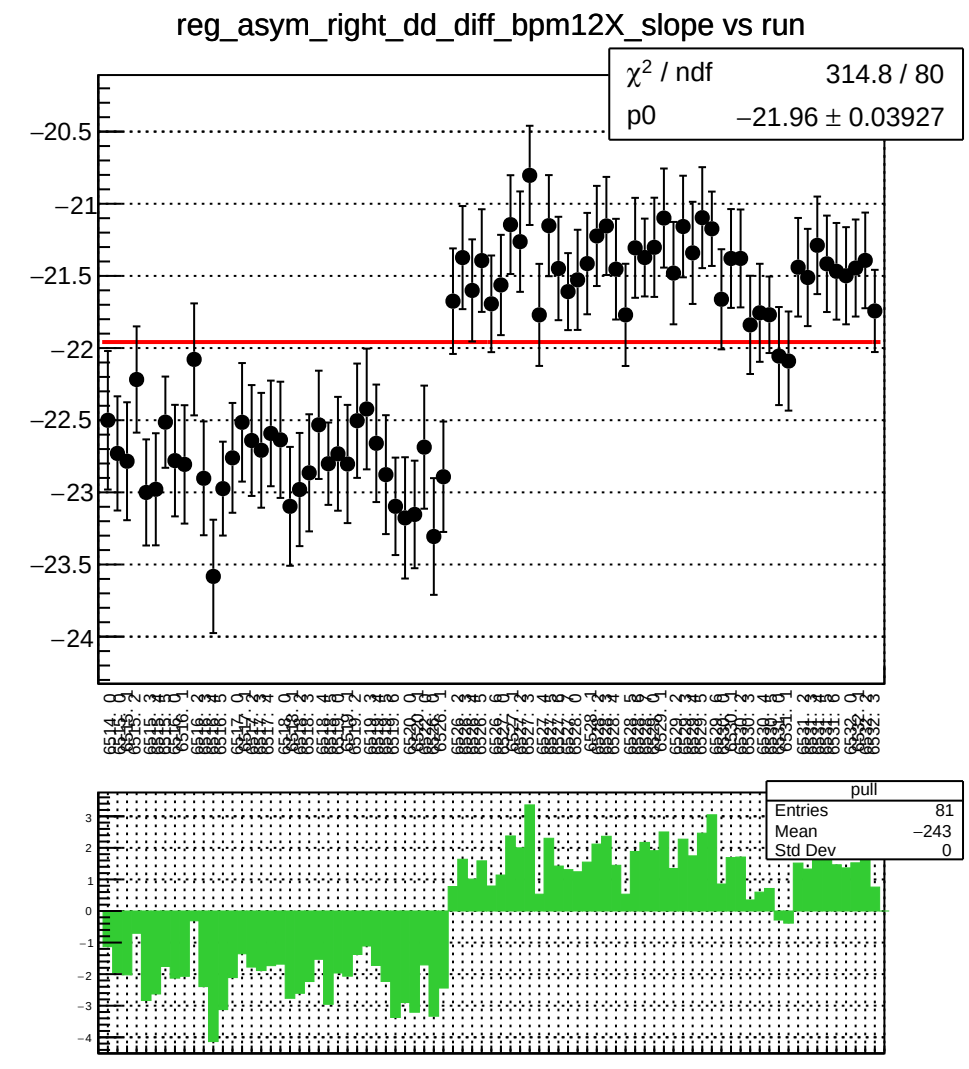

pull1D
Entries 81
Mean −0.1688
Std Dev 1.056

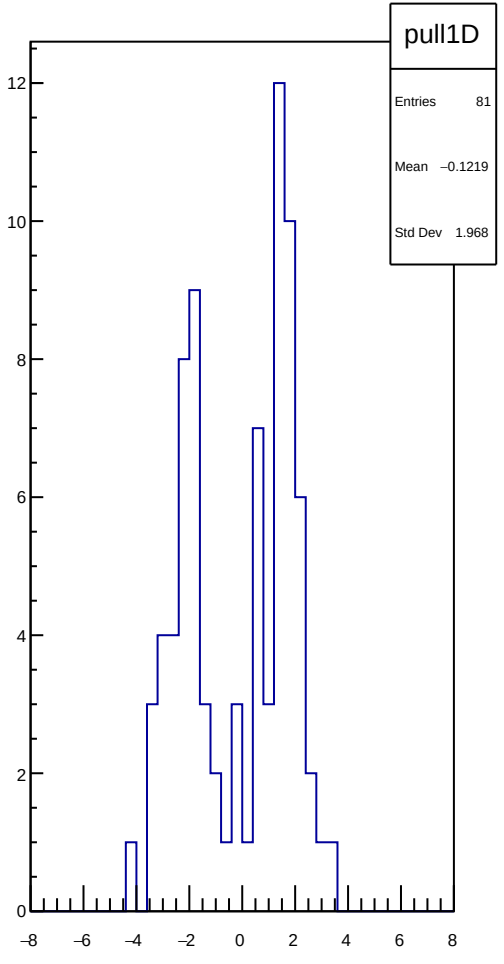

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 129.4 / 80
p0 56.32 ± 0.9834
pull
Entries 81
Mean 193
Std Dev 0

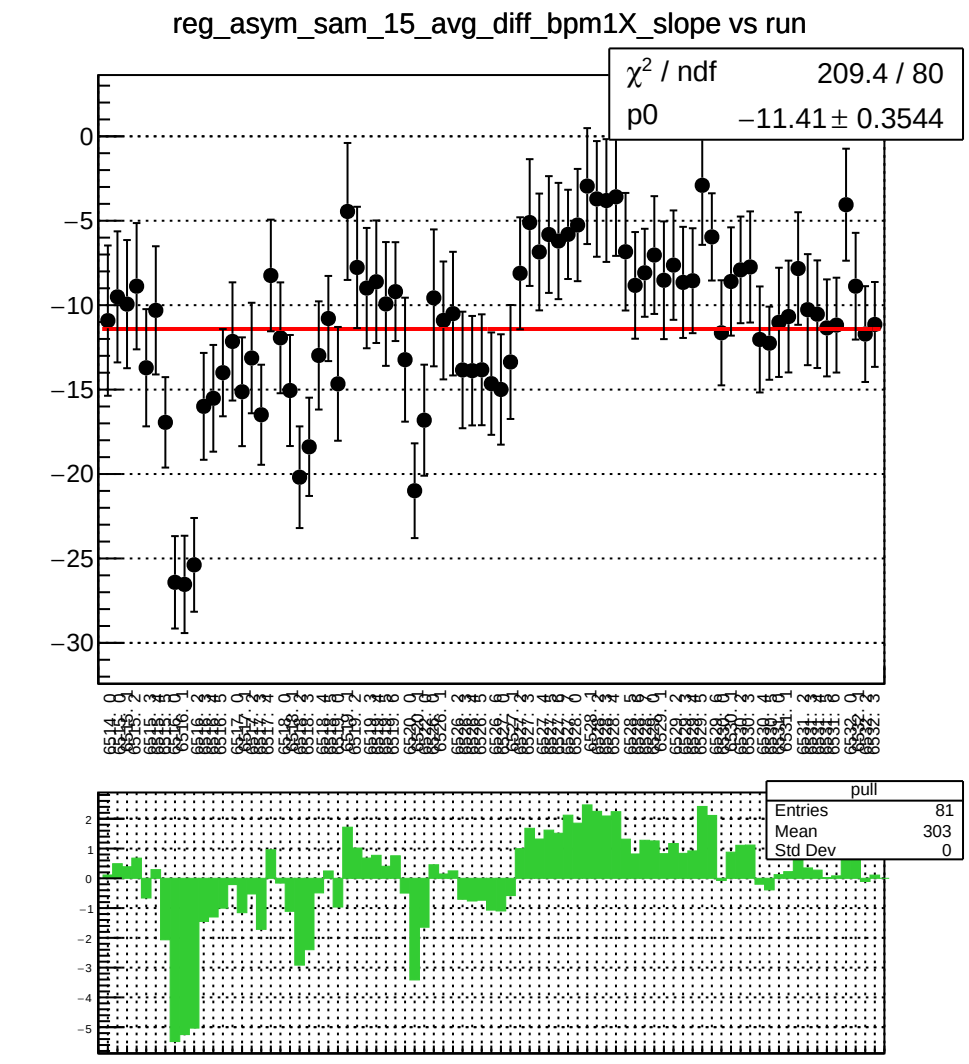

pull1D
Entries 81
Mean 0.08138
Std Dev 1.261

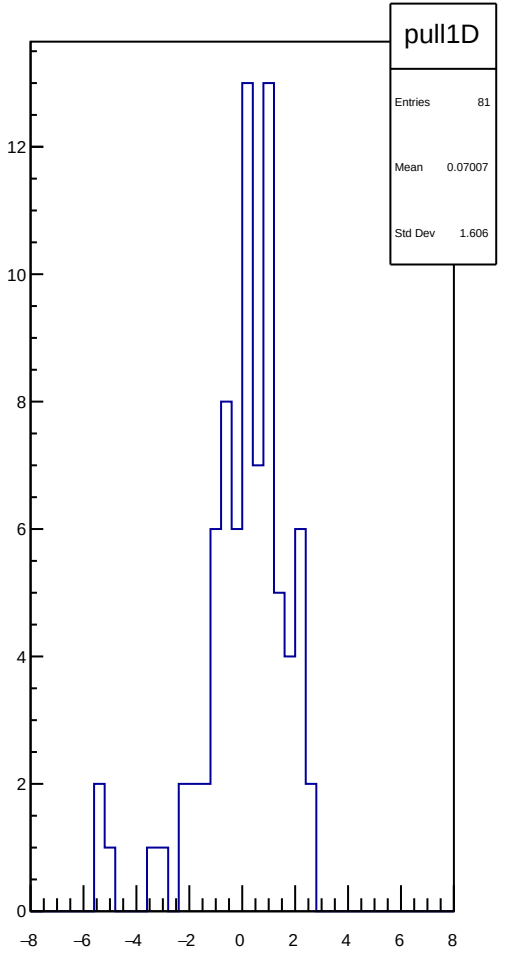

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 84.77 / 80
p0 18.41 ± 1.077
pull
Entries 81
Mean 146.9
Std Dev 0

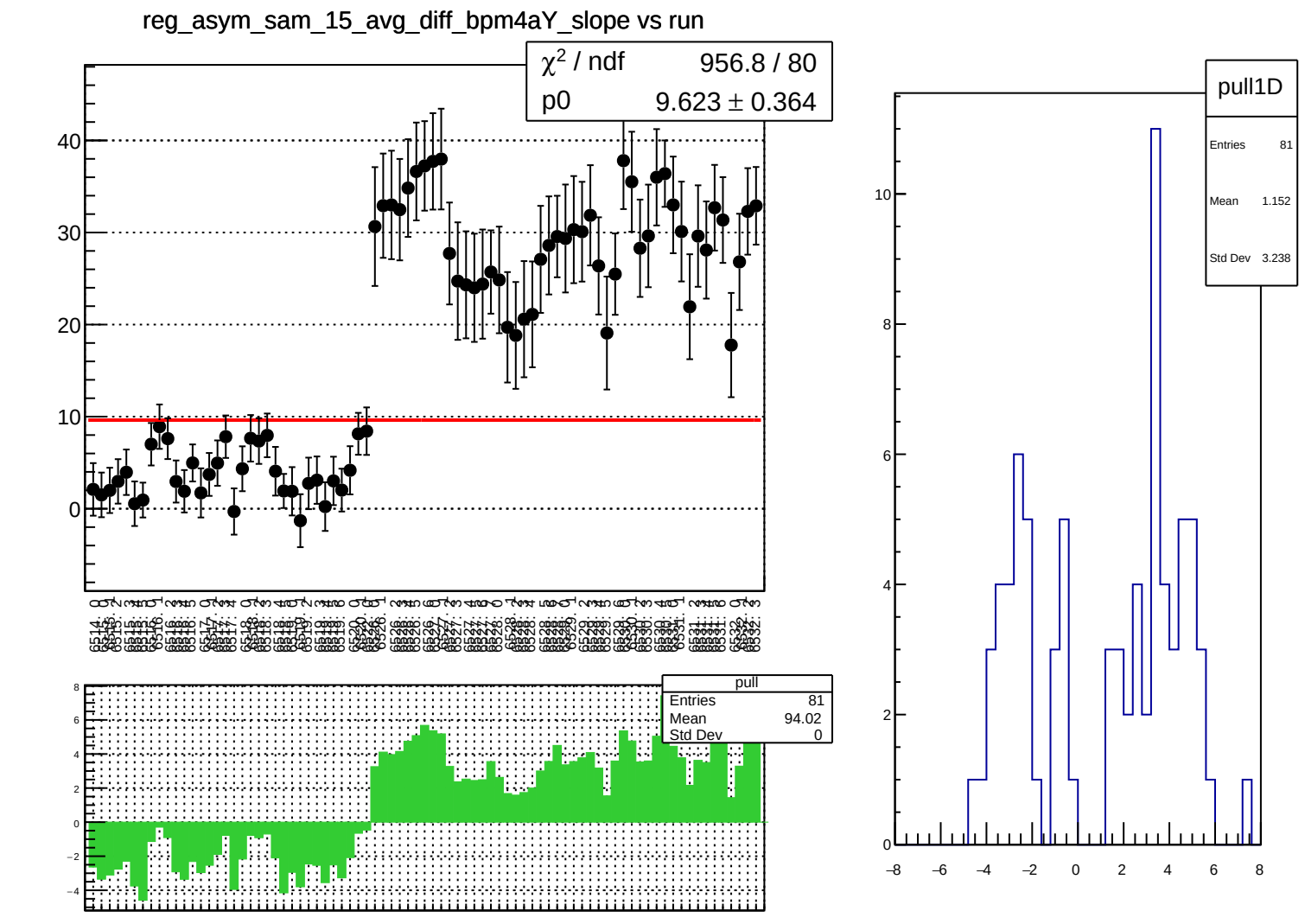

pull1D
Entries 81
Mean 0.07647
Std Dev 1.02

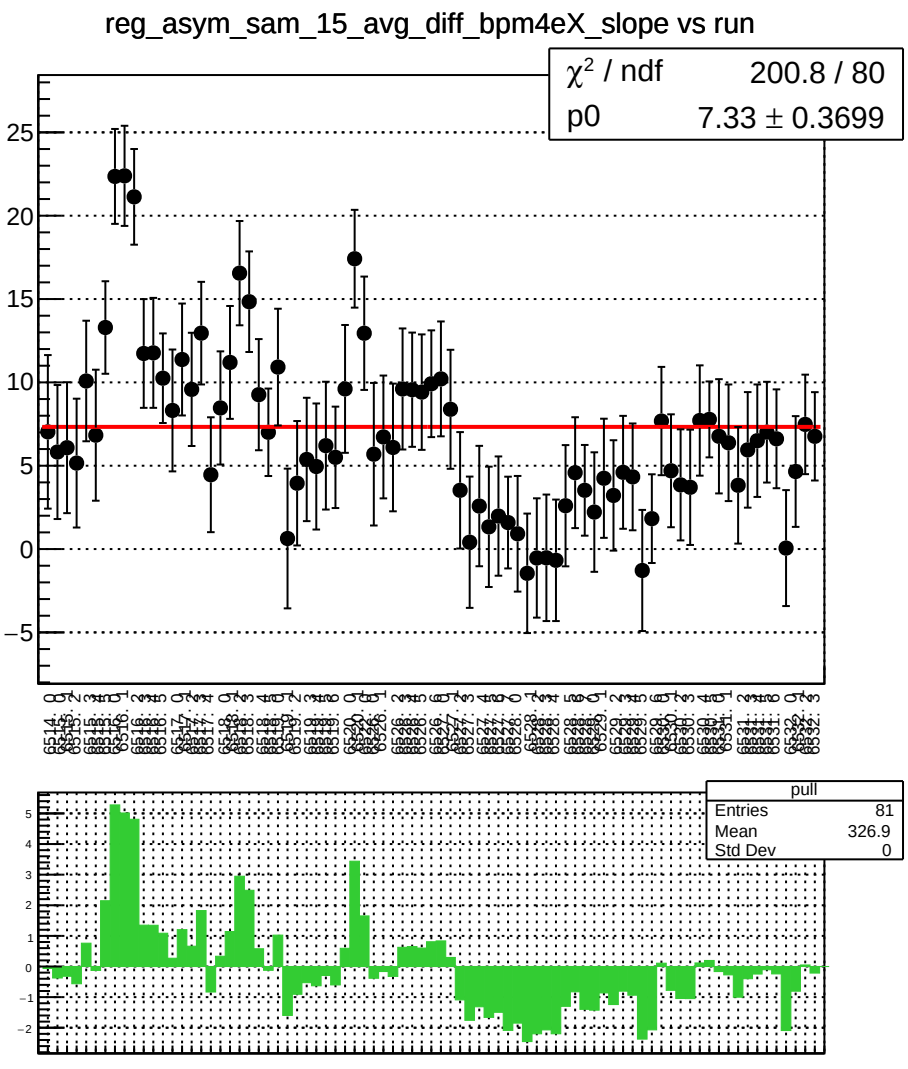

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 314.8 / 80
p0 −21.96 ± 0.03927
−20.5
−21
−21.5
−22
−22.5
−23
−23.5
−24
pull
Entries 81
Mean −243
Std Dev 0
3
2
1
0
−1
−2
−3
−4

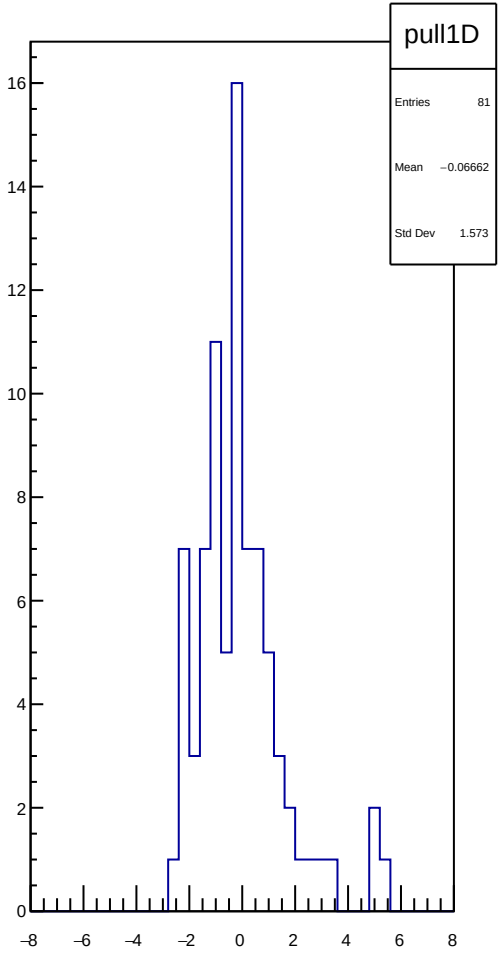

pull1D
Entries 81
Mean −0.1219
Std Dev 1.968
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

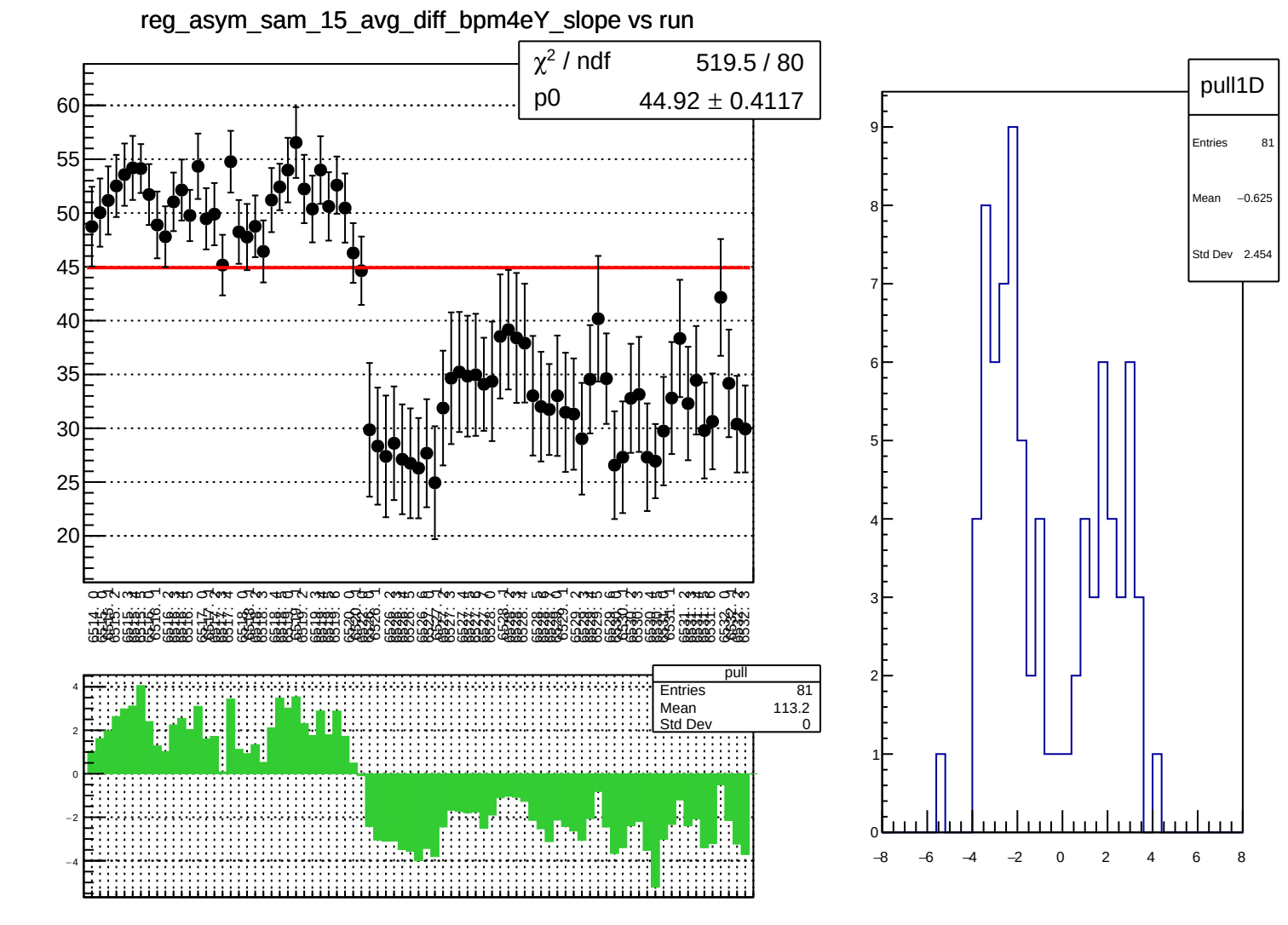

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 209.4 / 80
p0 −11.41 ± 0.3544
pull
Entries 81
Mean 303
Std Dev 0

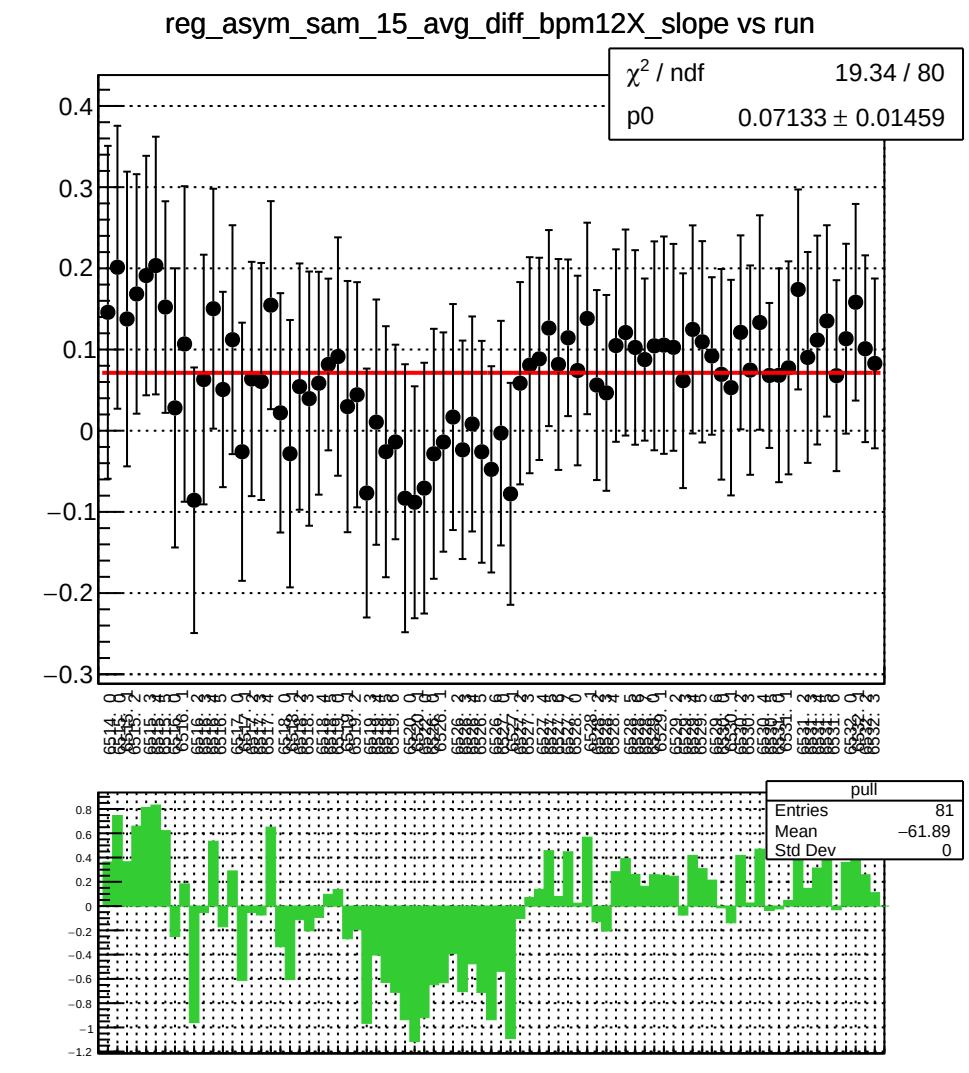

pull1D
Entries 81
Mean 0.07007
Std Dev 1.606

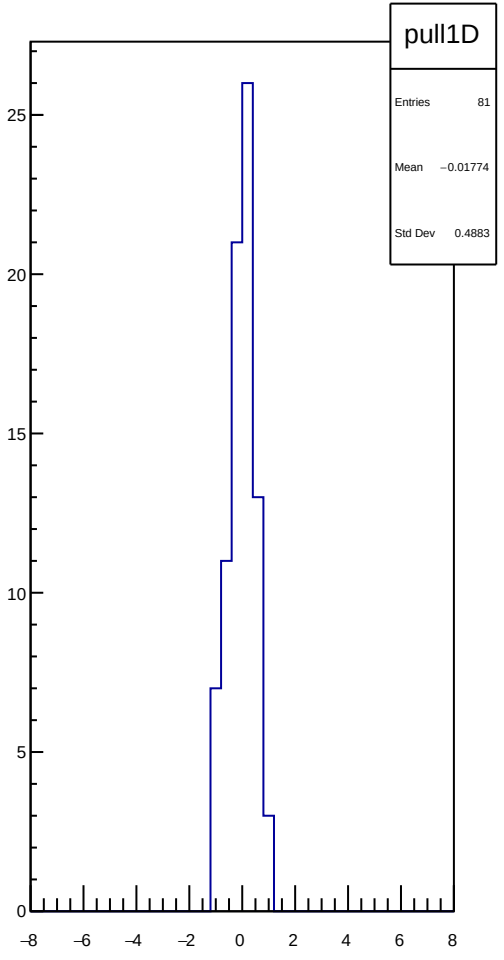

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 956.8 / 80
p0 9.623 ± 0.364
40
30
20
10
0
pull
Entries 81
Mean 94.02
Std Dev 0
8
6
4
2
0
−2
−4
pull1D
Entries 81
Mean 1.152
Std Dev 3.238
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

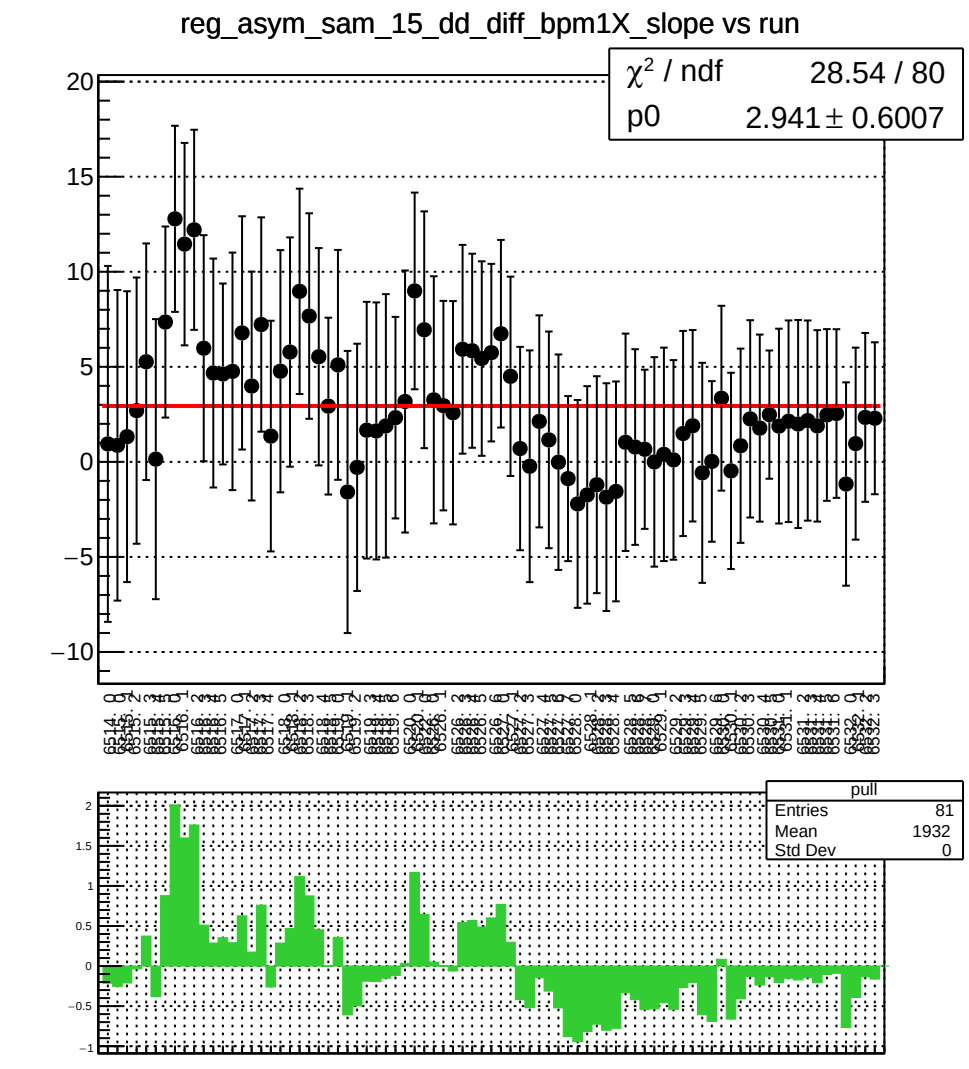

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 200.8 / 80
p0 7.33 ± 0.3699
pull
Entries 81
Mean 326.9
Std Dev 0

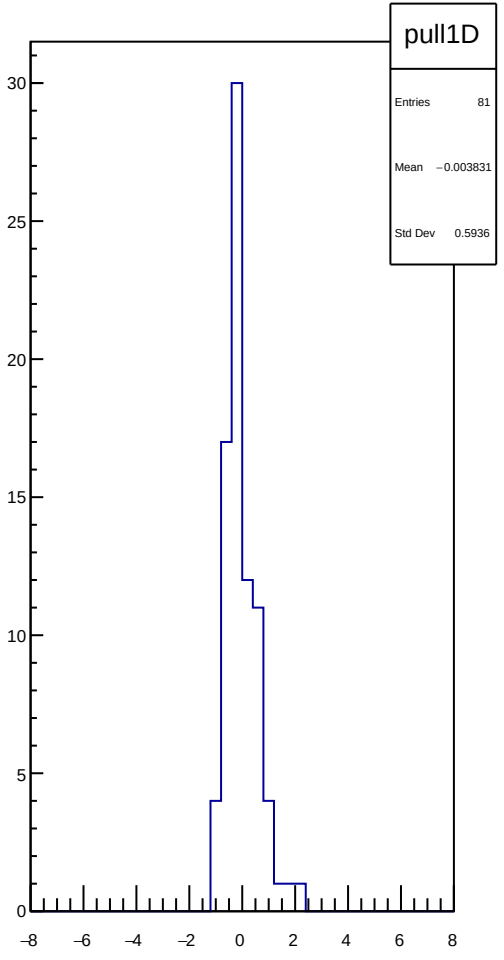

pull1D
Entries 81
Mean −0.06662
Std Dev 1.573

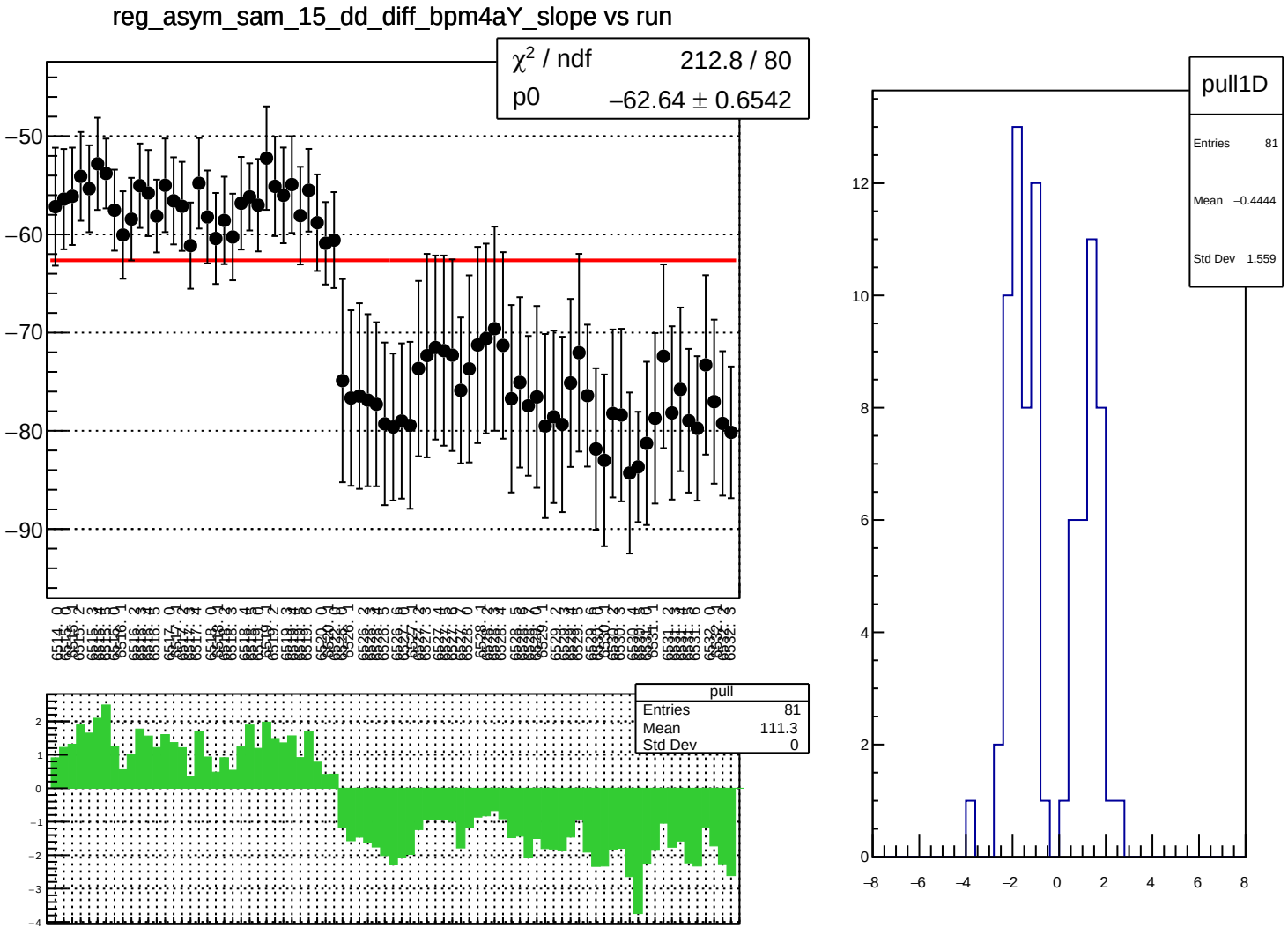

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 519.5 / 80
p0 44.92 ± 0.4117
pull
Entries 81
Mean 113.2
Std Dev 0
pull1D
Entries 81
Mean −0.625
Std Dev 2.454

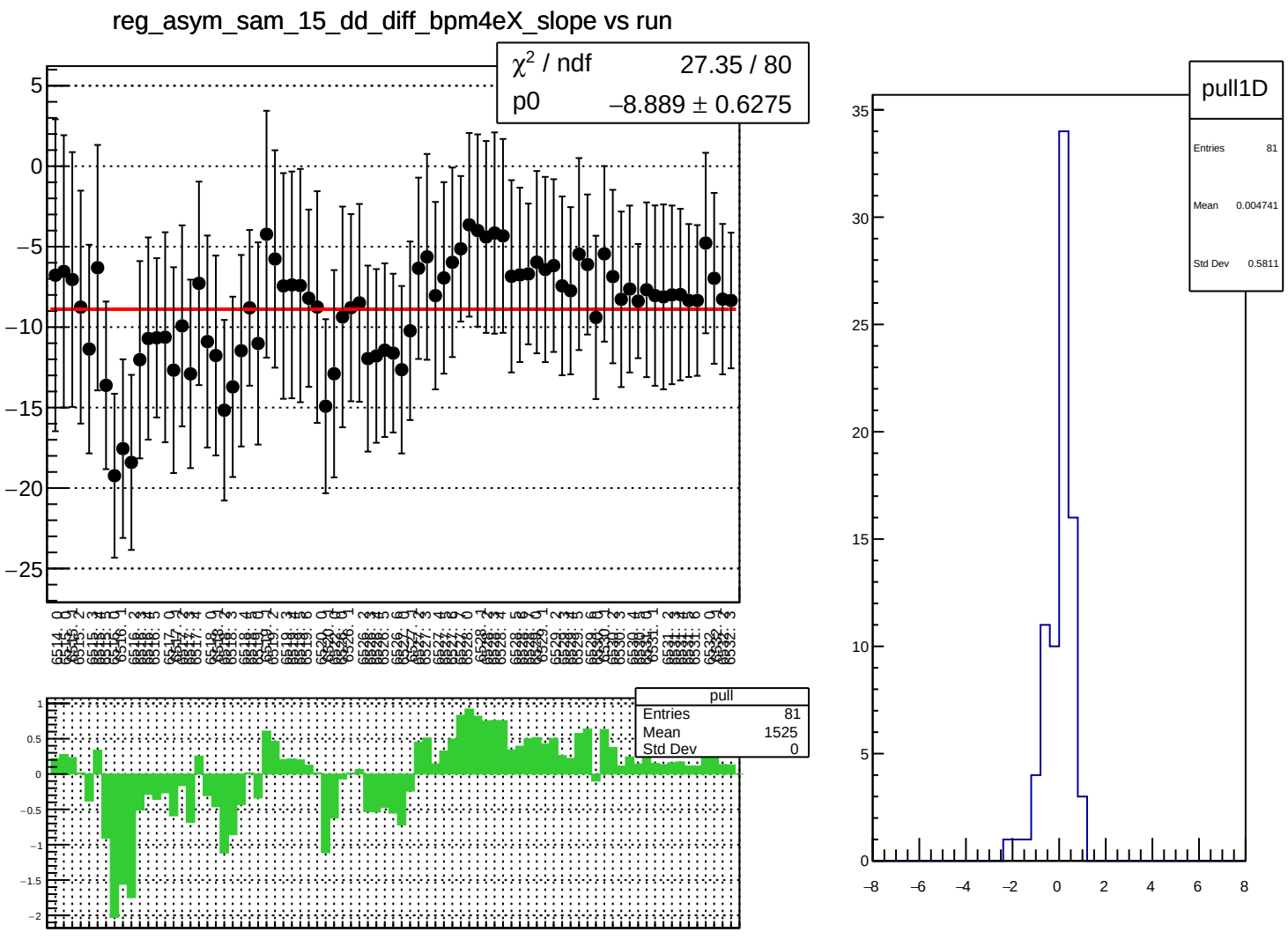

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 19.34 / 80
p0 0.07133 ± 0.01459
pull
Entries 81
Mean −61.89
Std Dev 0

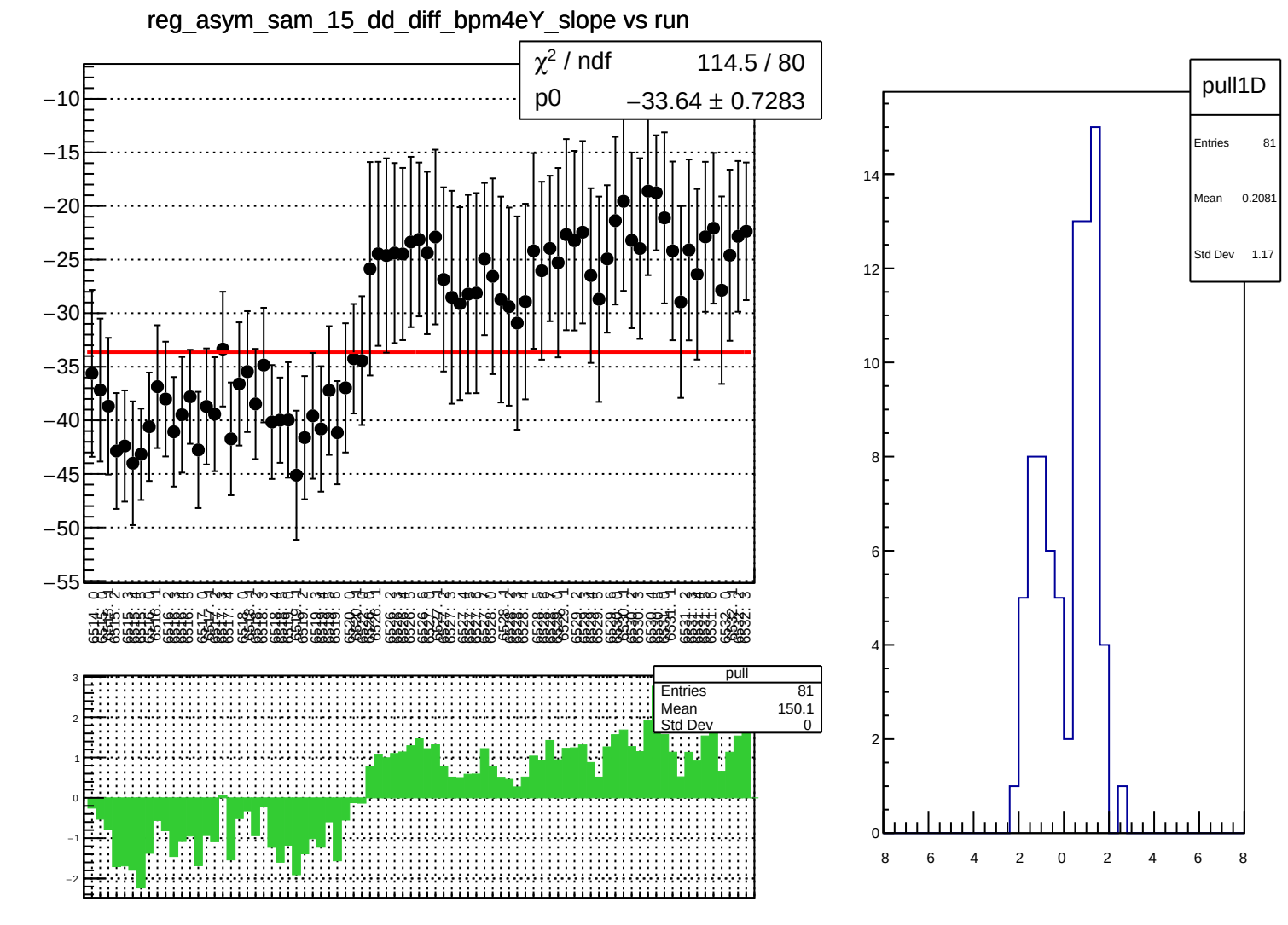

pull1D
Entries 81
Mean −0.01774
Std Dev 0.4883

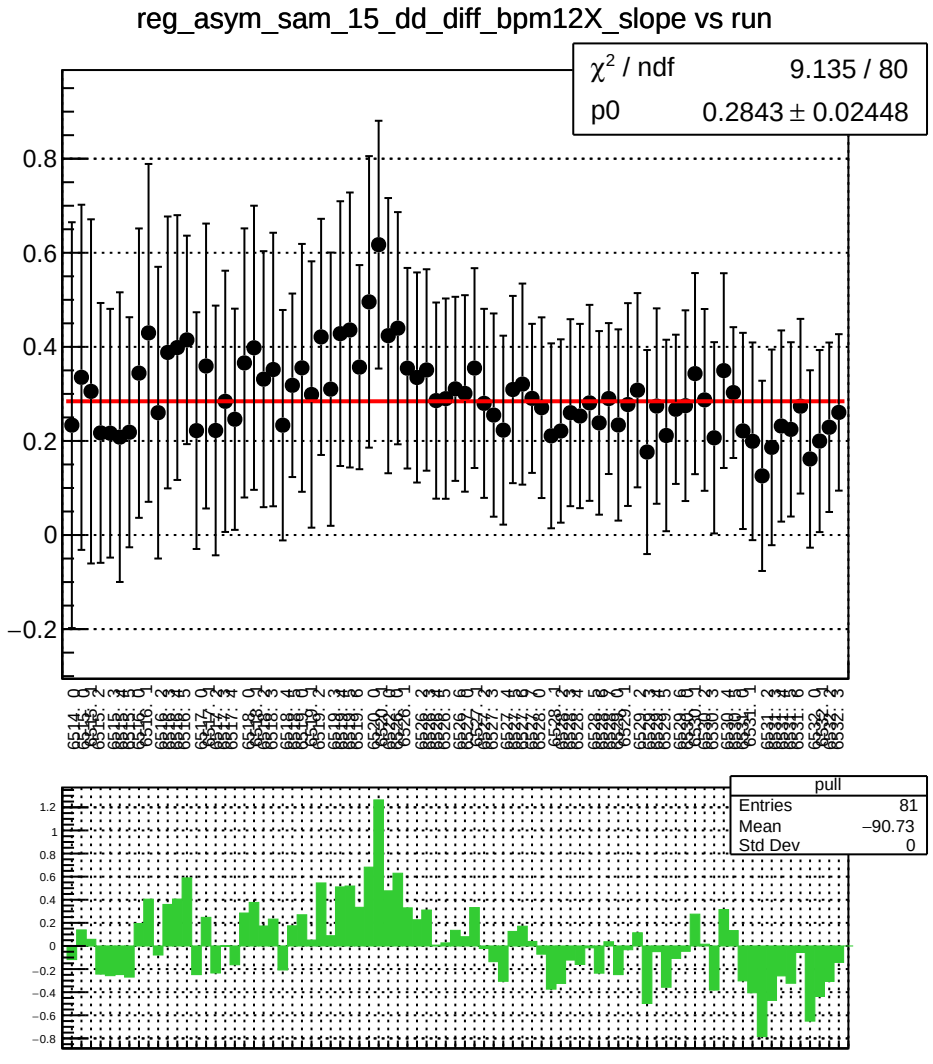

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 28.54 / 80
p0 2.941 ± 0.6007
pull
Entries 81
Mean 1932
Std Dev 0

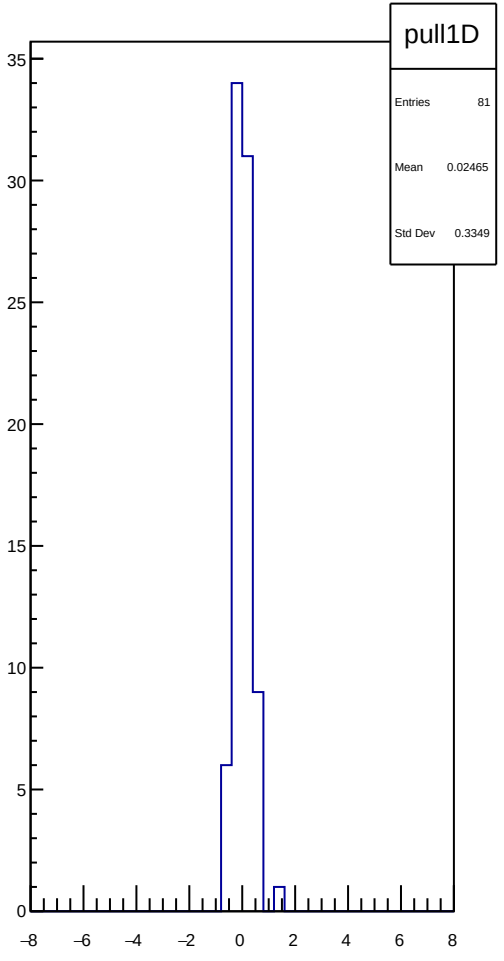

pull1D
Entries 81
Mean −0.003831
Std Dev 0.5936

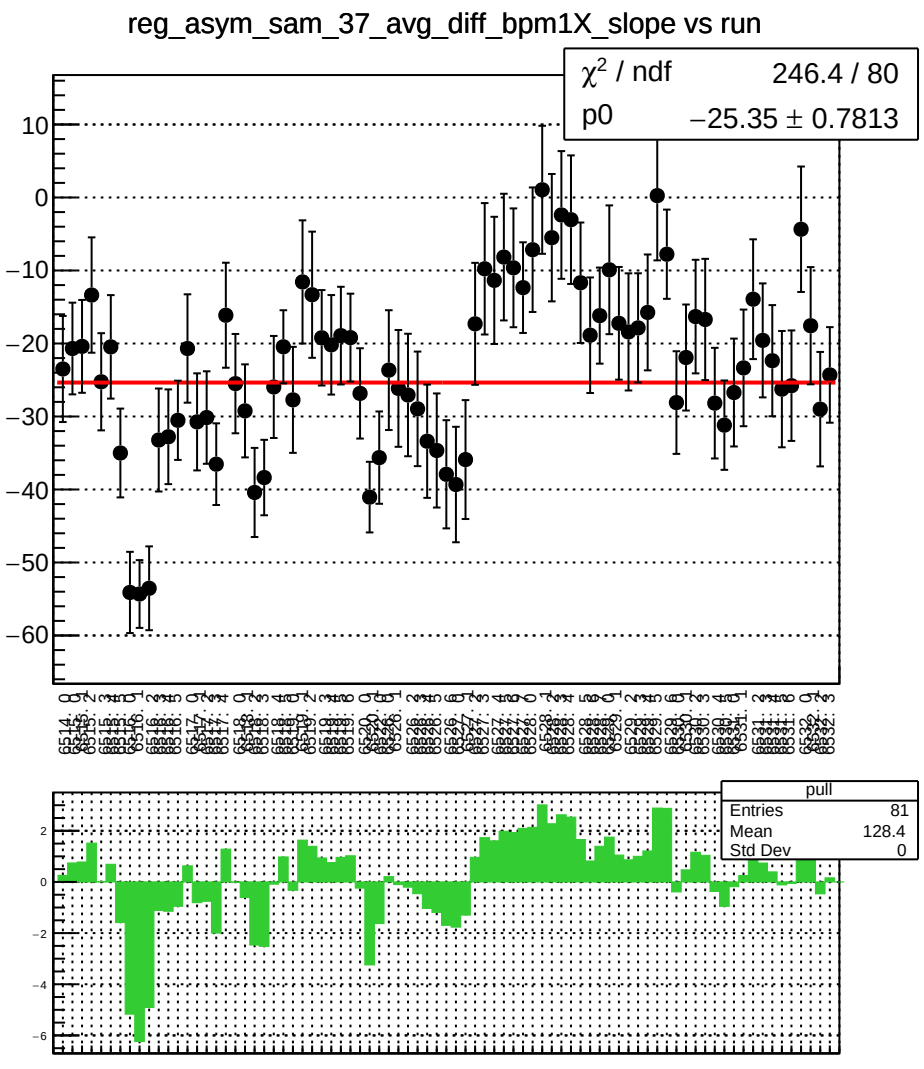

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 212.8 / 80
p0 −62.64 ± 0.6542
−50
−60
−70
−80
−90
pull
Entries 81
Mean 111.3
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 81
Mean −0.4444
Std Dev 1.559
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

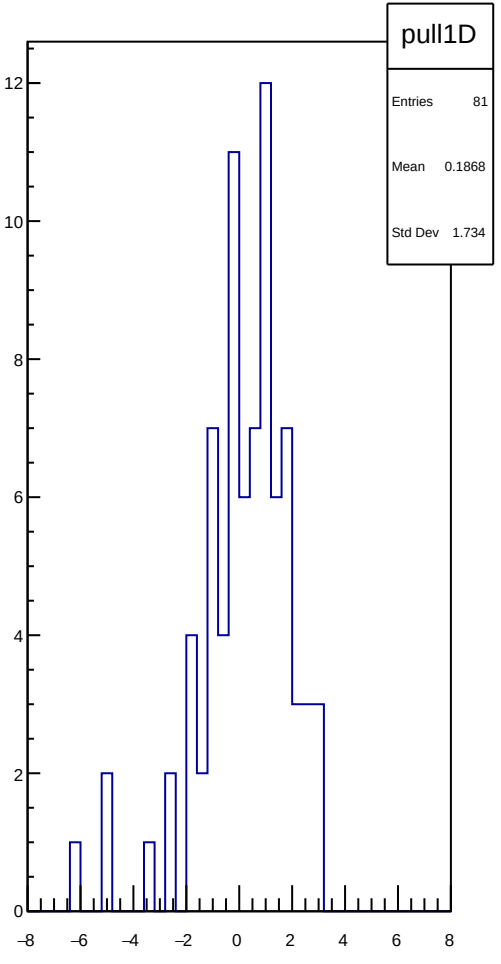

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 27.35 / 80
p0 −8.889 ± 0.6275
pull
Entries 81
Mean 1525
Std Dev 0
pull1D
Entries 81
Mean 0.004741
Std Dev 0.5811

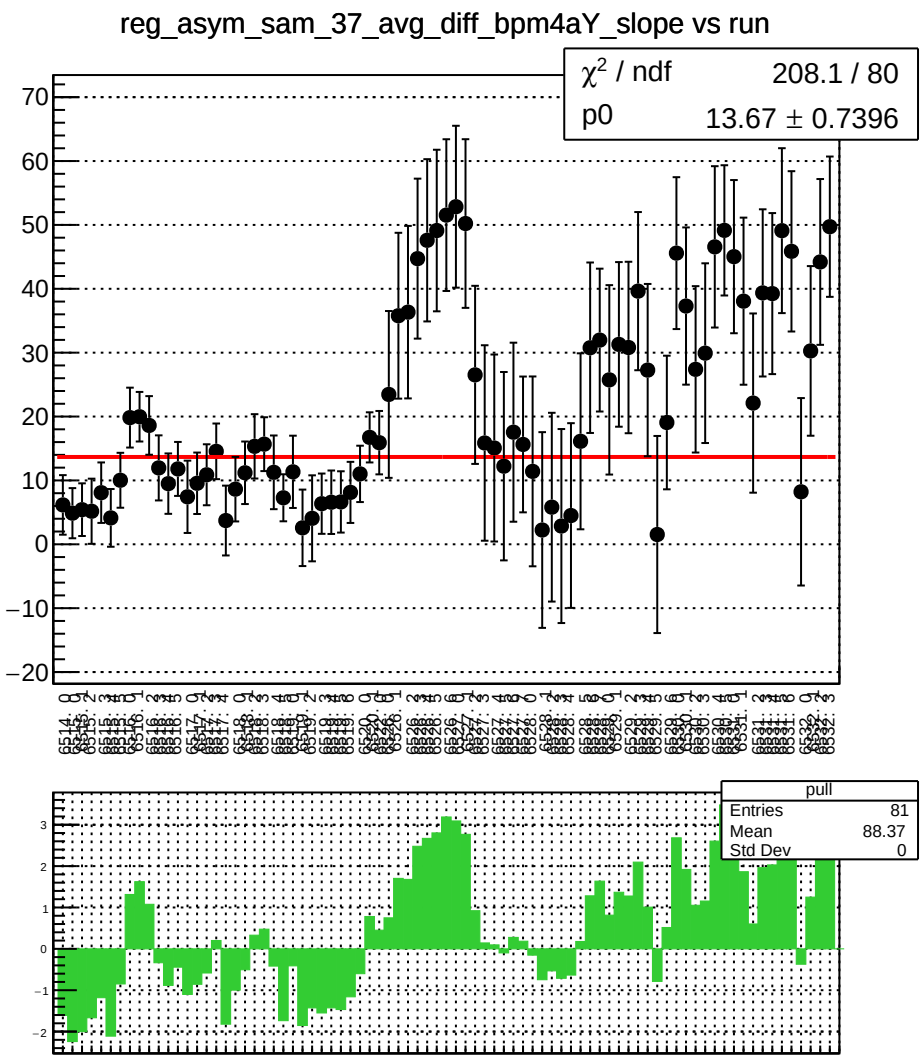

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 114.5 / 80
p0 −33.64 ± 0.7283
pull
Entries 81
Mean 150.1
Std Dev 0
pull1D
Entries 81
Mean 0.2081
Std Dev 1.17

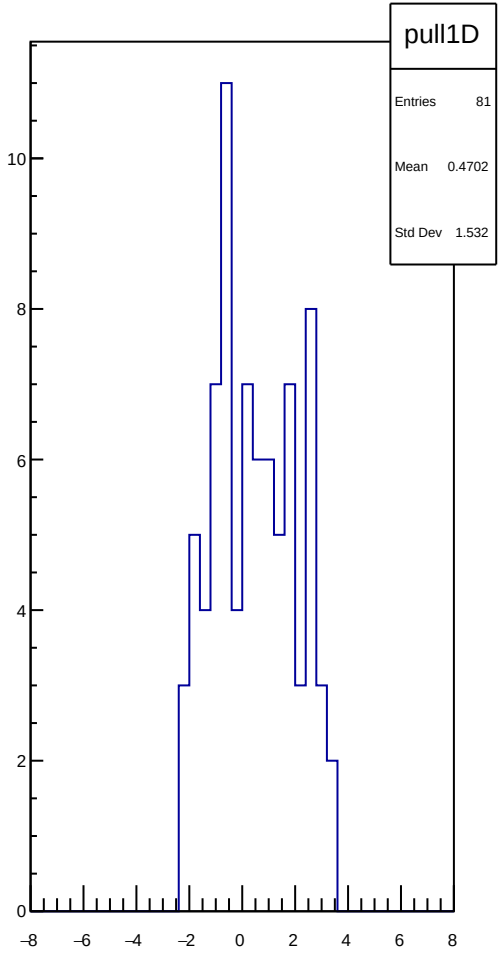

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 9.135 / 80
p0 0.2843 ± 0.02448
pull
Entries 81
Mean −90.73
Std Dev 0

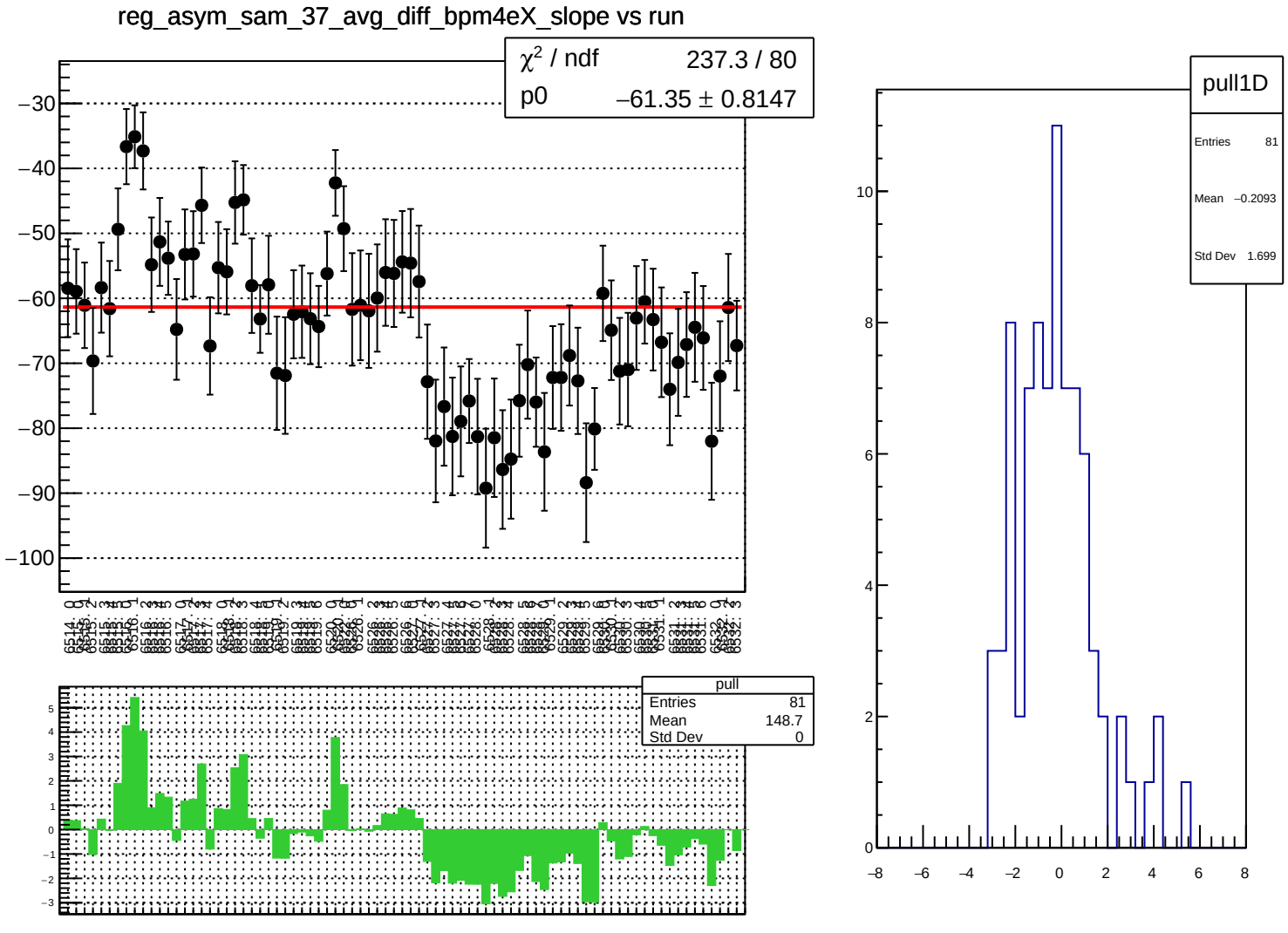

pull1D
Entries 81
Mean 0.02465
Std Dev 0.3349

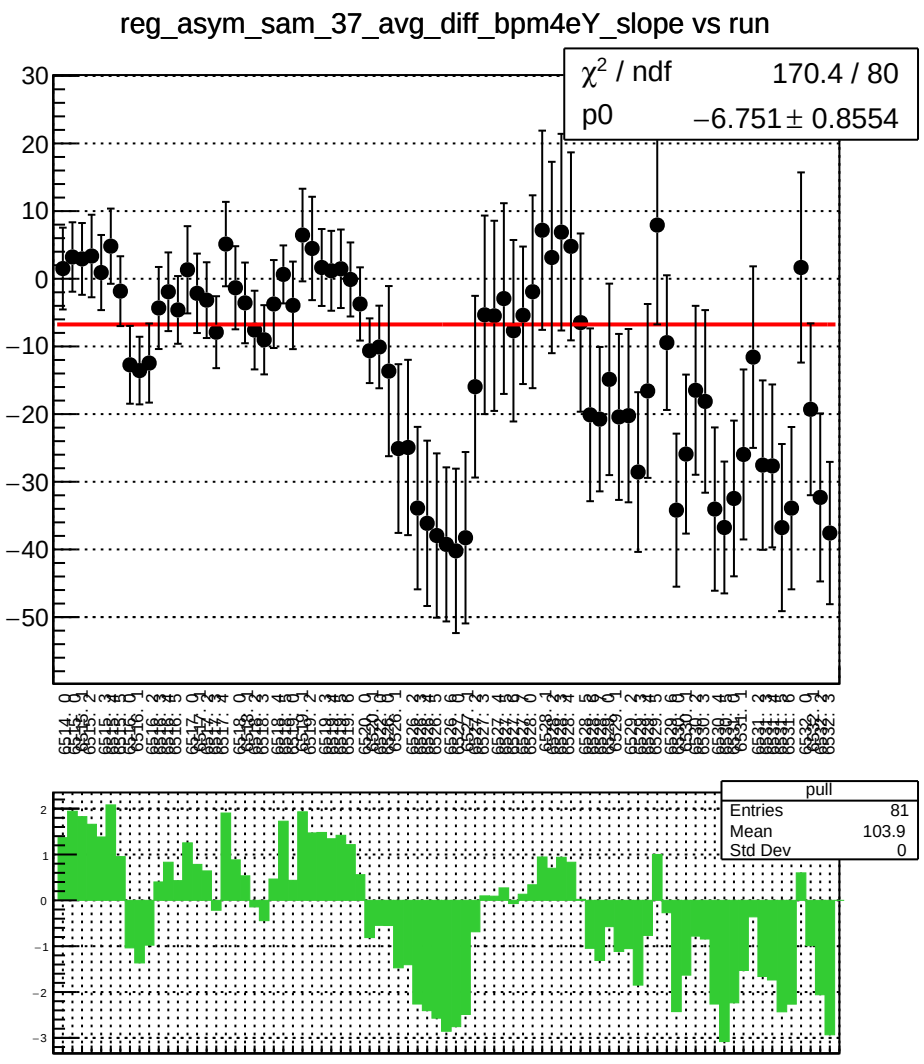

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 246.4 / 80
p0 −25.35 ± 0.7813
pull
Entries 81
Mean 128.4
Std Dev 0

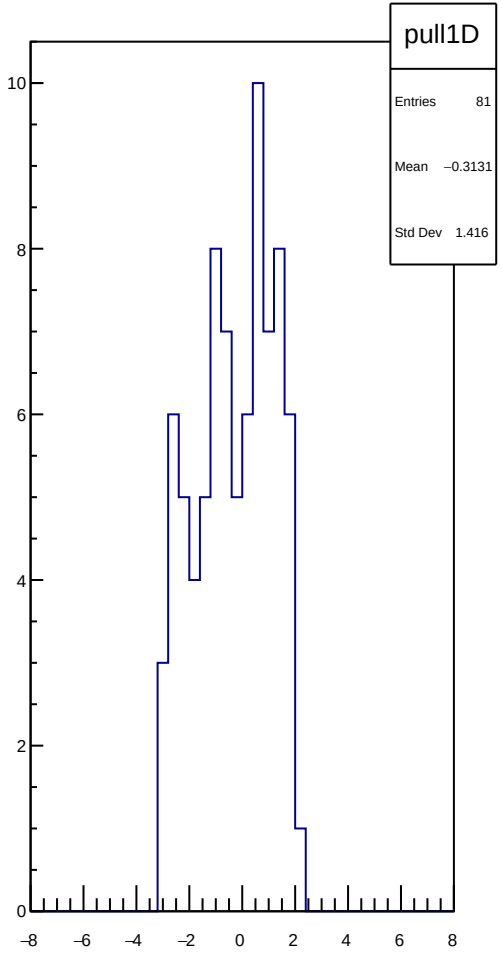

pull1D
Entries 81
Mean 0.1868
Std Dev 1.734

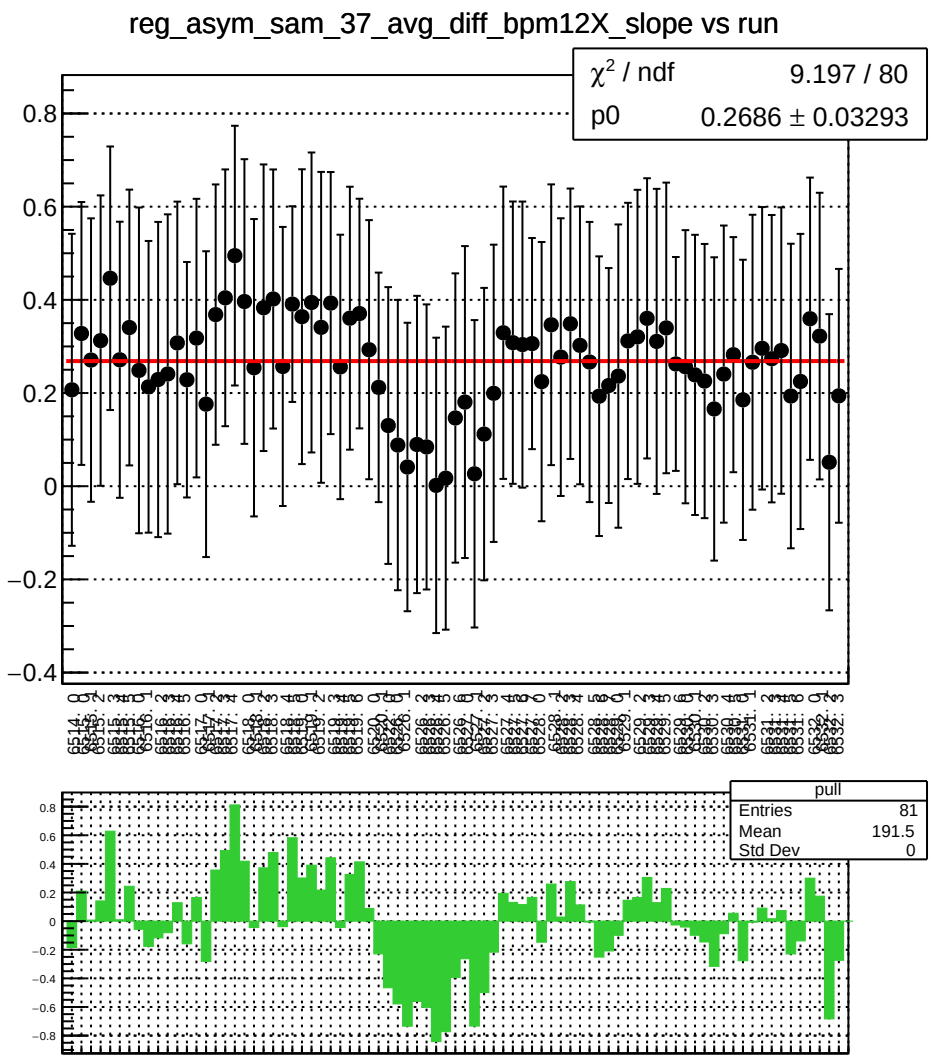

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 208.1 / 80
p0 13.67 ± 0.7396
pull
Entries 81
Mean 88.37
Std Dev 0

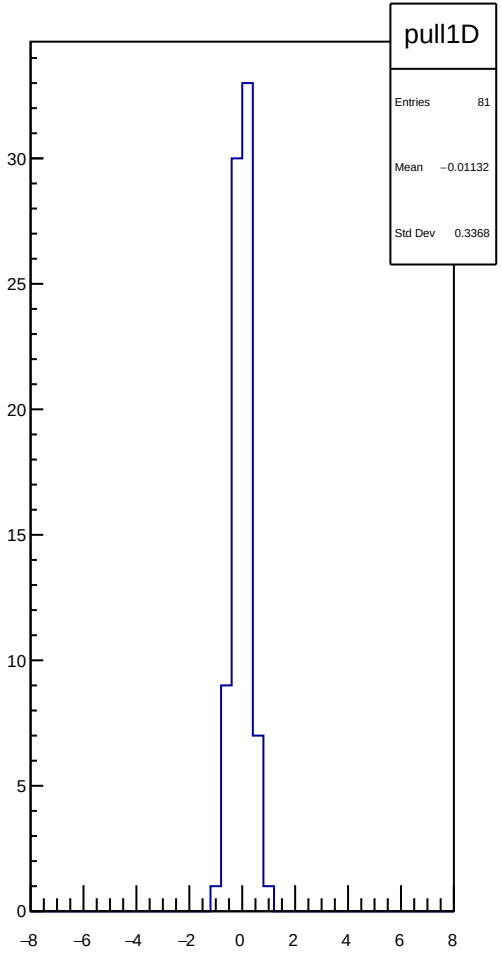

pull1D
Entries 81
Mean 0.4702
Std Dev 1.532

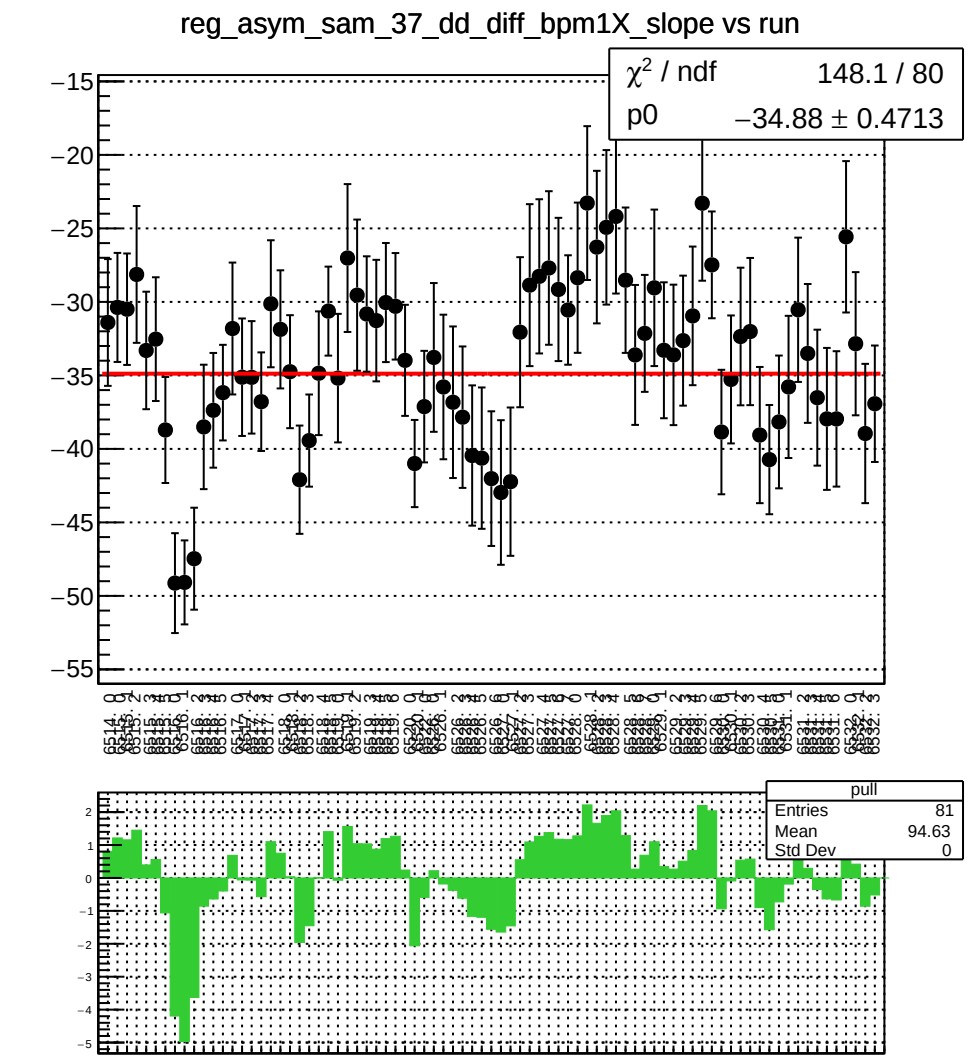

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 237.3 / 80
p0 −61.35 ± 0.8147
pull
Entries 81
Mean 148.7
Std Dev 0
pull1D
Entries 81
Mean −0.2093
Std Dev 1.699

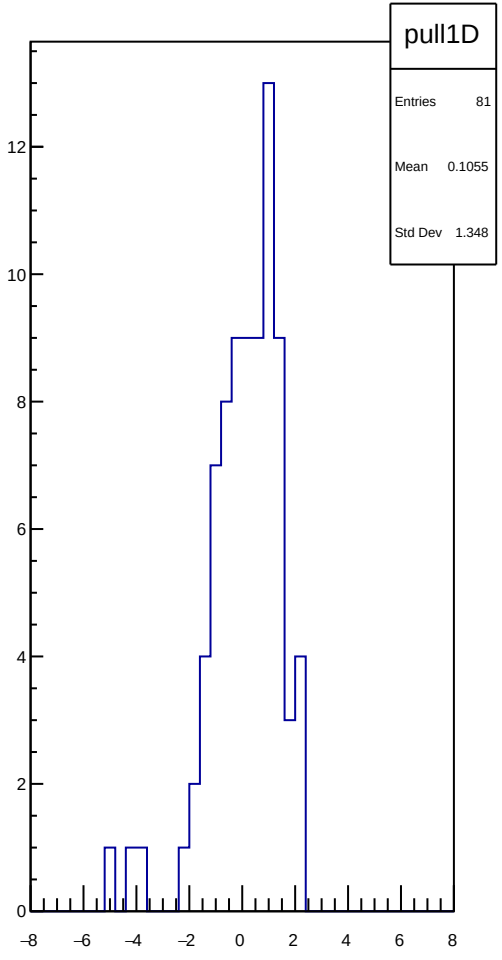

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 170.4 / 80
p0 −6.751 ± 0.8554
pull
Entries 81
Mean 103.9
Std Dev 0

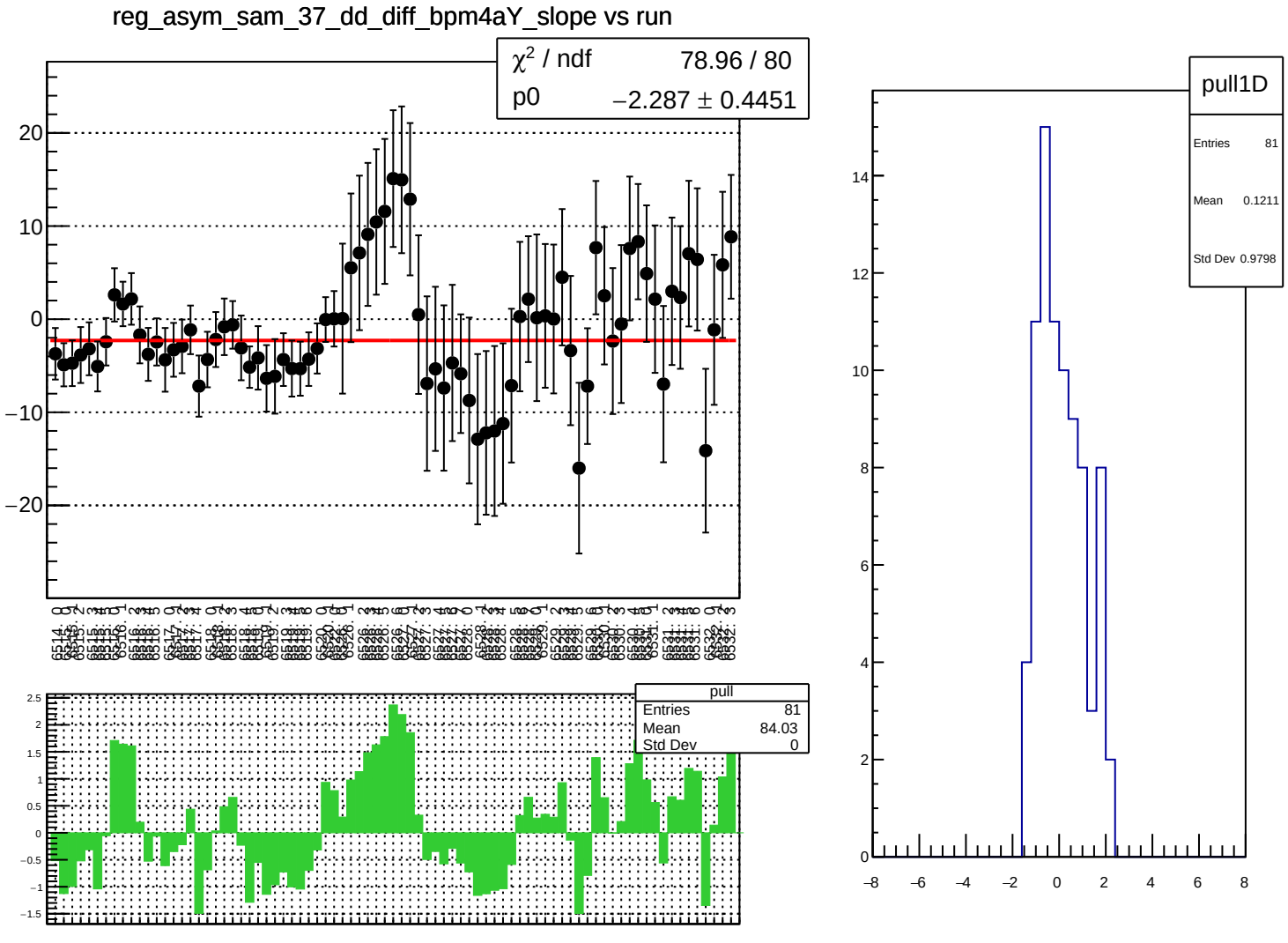

pull1D
Entries 81
Mean −0.3131
Std Dev 1.416

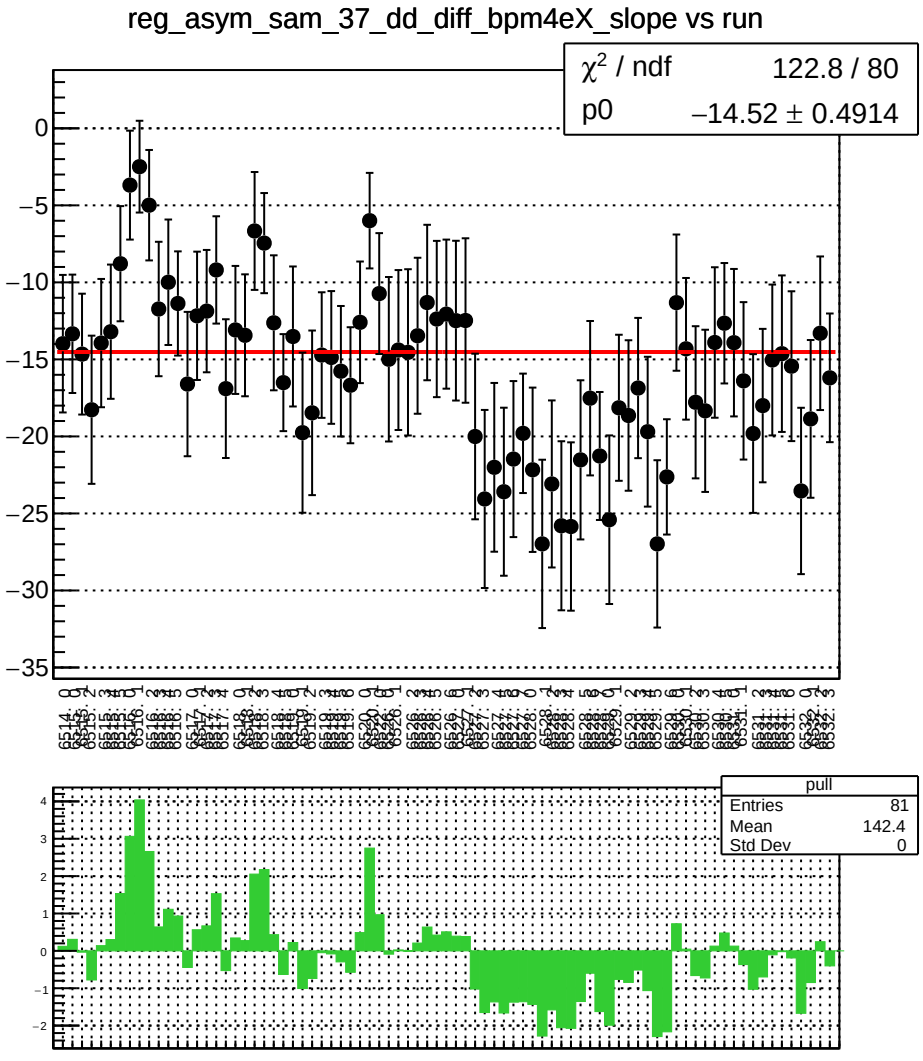

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 9.197 / 80
p0 0.2686 ± 0.03293
pull
Entries 81
Mean 191.5
Std Dev 0

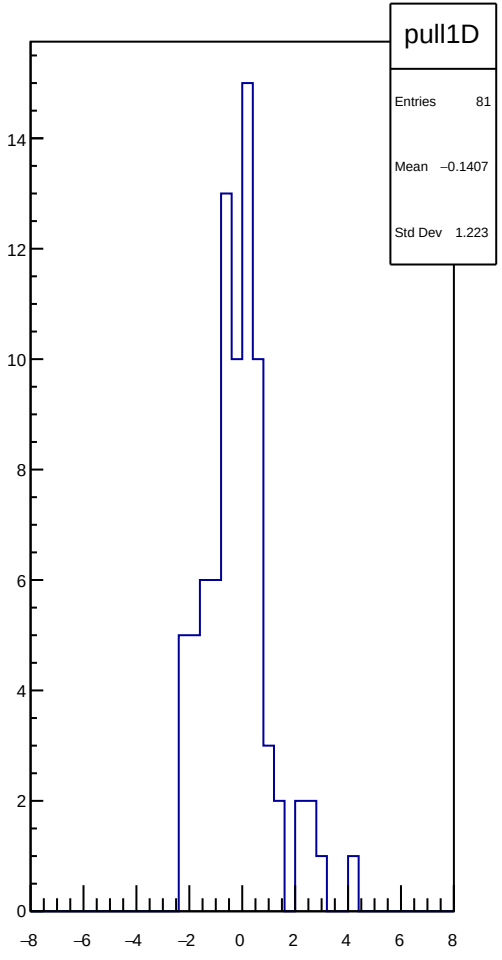

pull1D
Entries 81
Mean −0.01132
Std Dev 0.3368

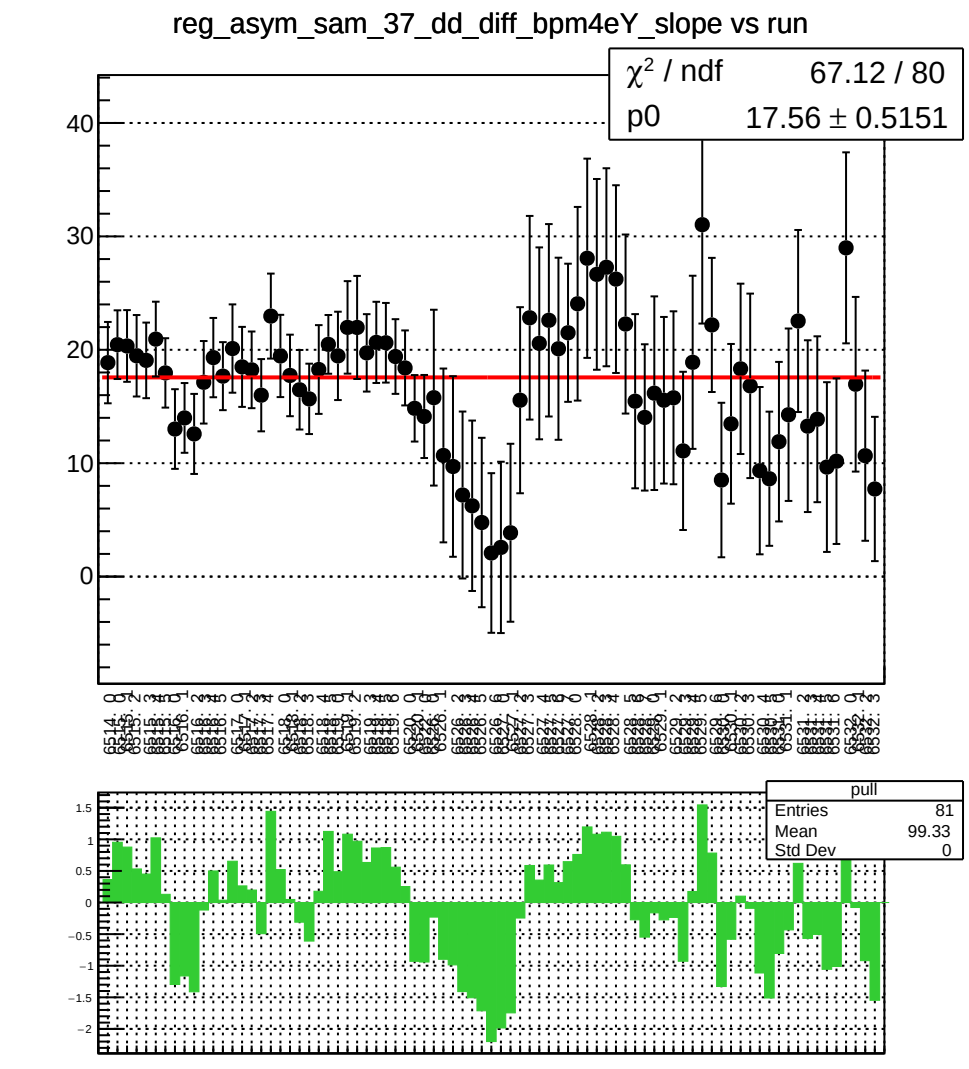

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 148.1 / 80
p0 −34.88 ± 0.4713
pull
Entries 81
Mean 94.63
Std Dev 0

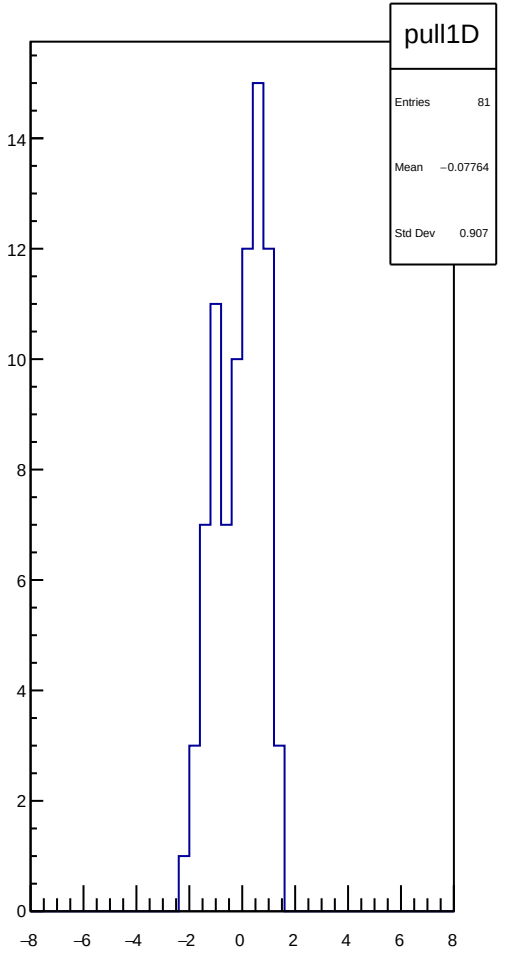

pull1D
Entries 81
Mean 0.1055
Std Dev 1.348

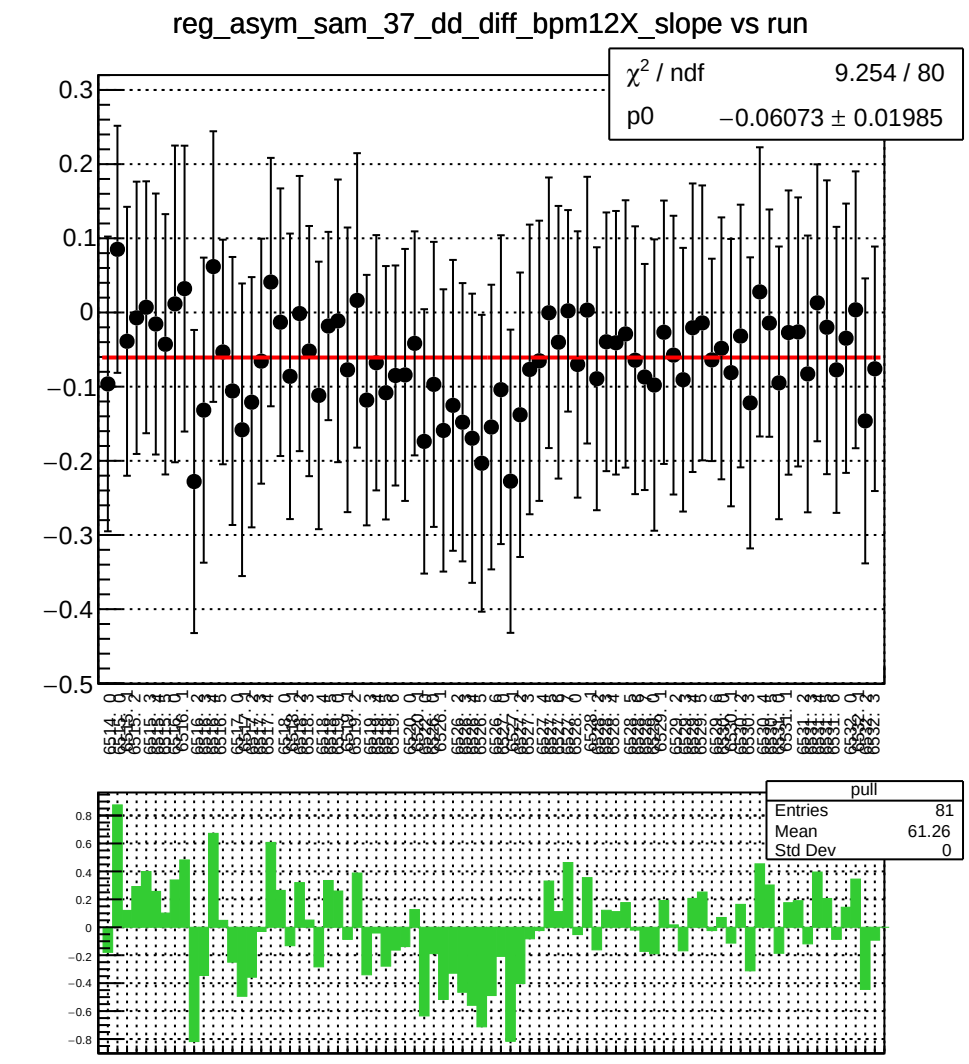

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 78.96 / 80
p0 −2.287 ± 0.4451
pull
Entries 81
Mean 84.03
Std Dev 0
pull1D
Entries 81
Mean 0.1211
Std Dev 0.9798

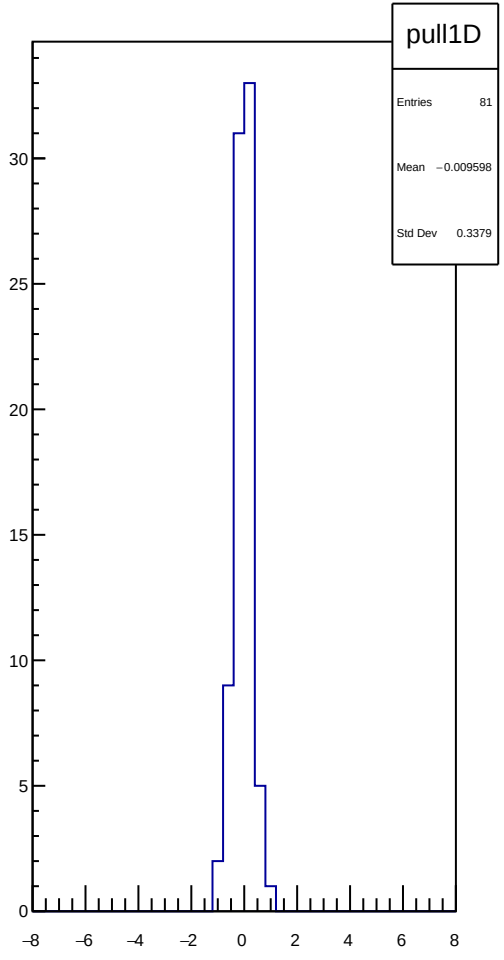

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 122.8 / 80
p0 −14.52 ± 0.4914
pull
Entries 81
Mean 142.4
Std Dev 0

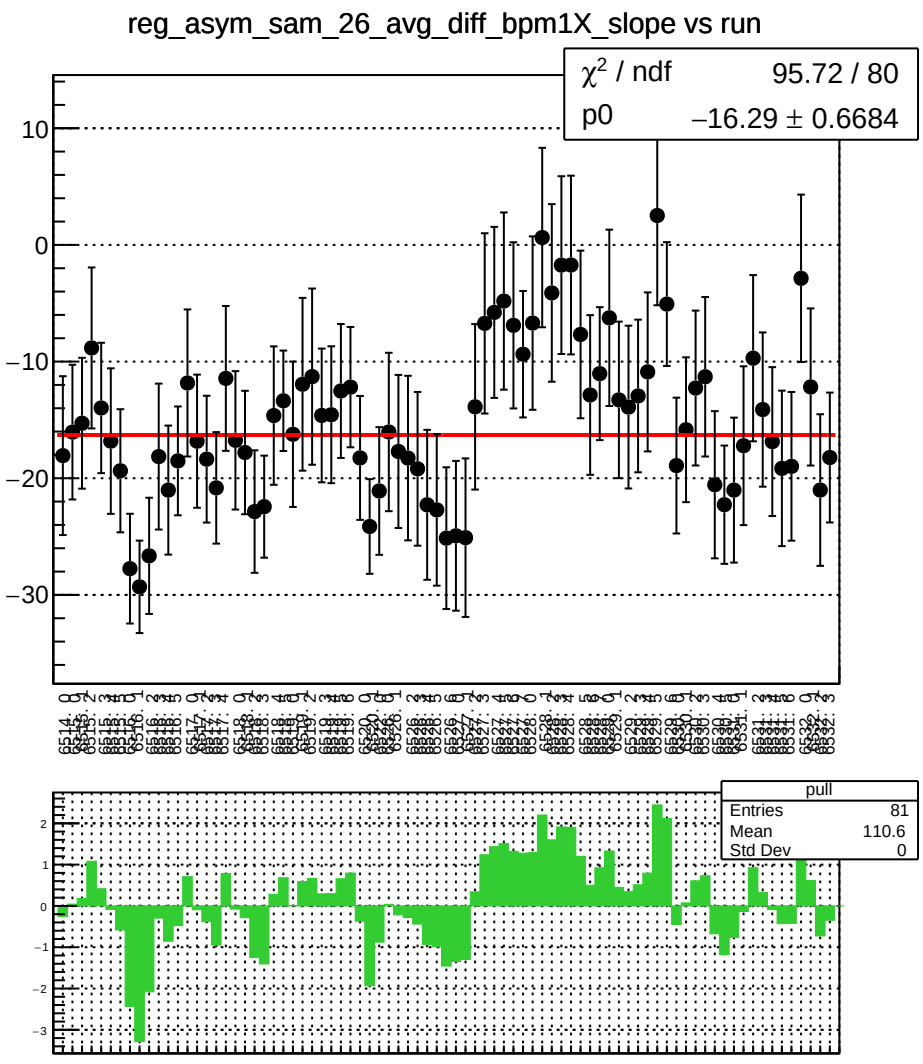

pull1D
Entries 81
Mean −0.1407
Std Dev 1.223

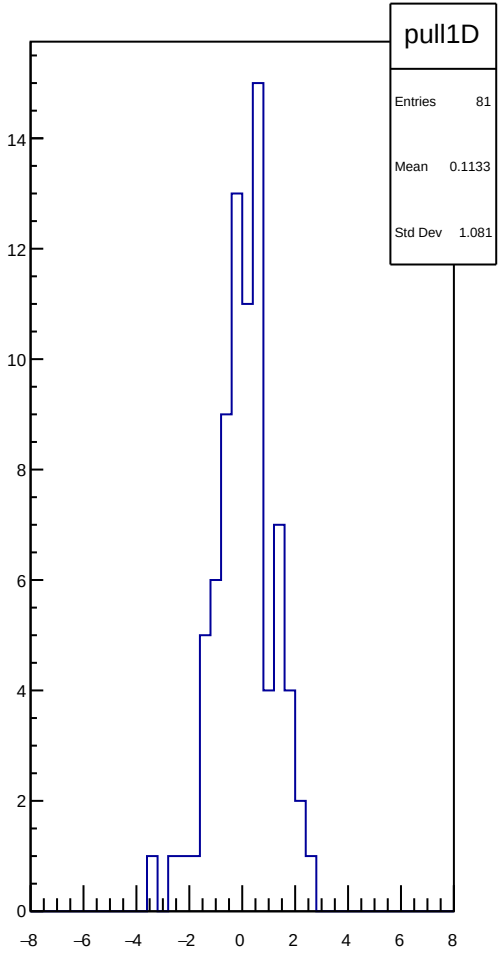

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 67.12 / 80
p0 17.56 ± 0.5151
pull
Entries 81
Mean 99.33
Std Dev 0

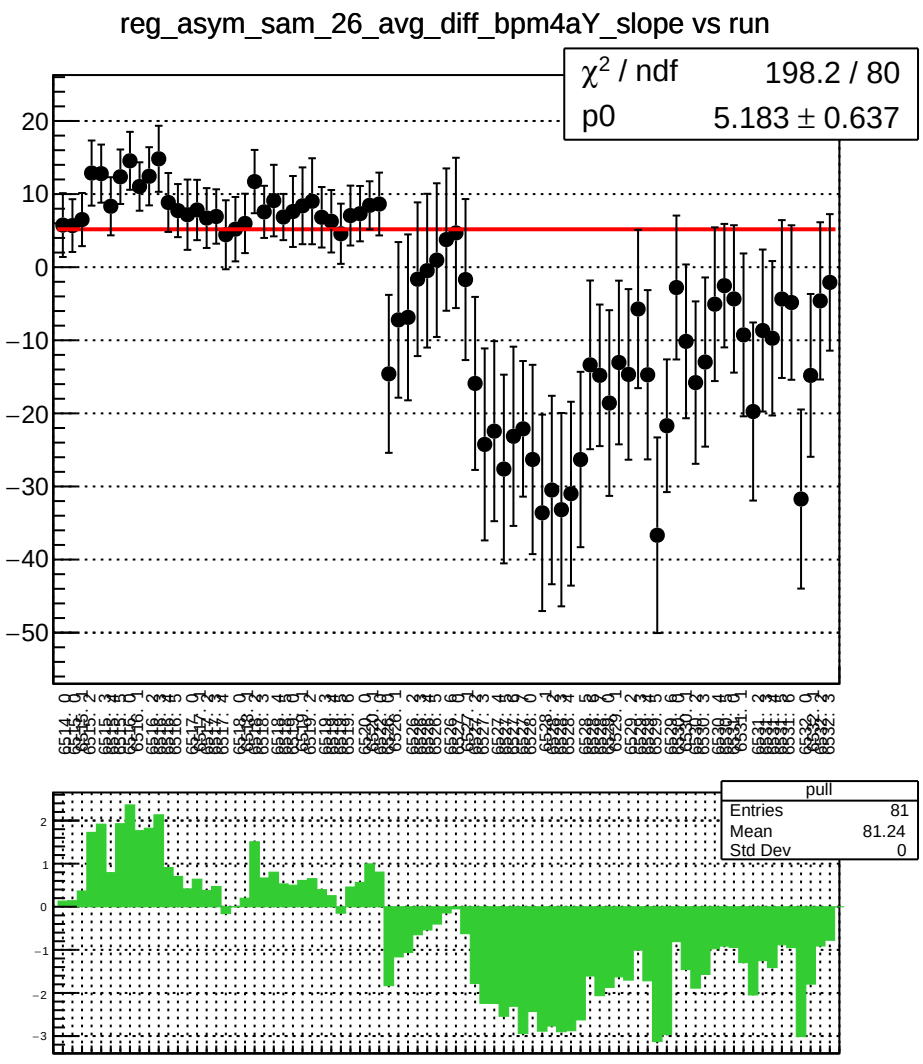

pull1D
Entries 81
Mean −0.07764
Std Dev 0.907

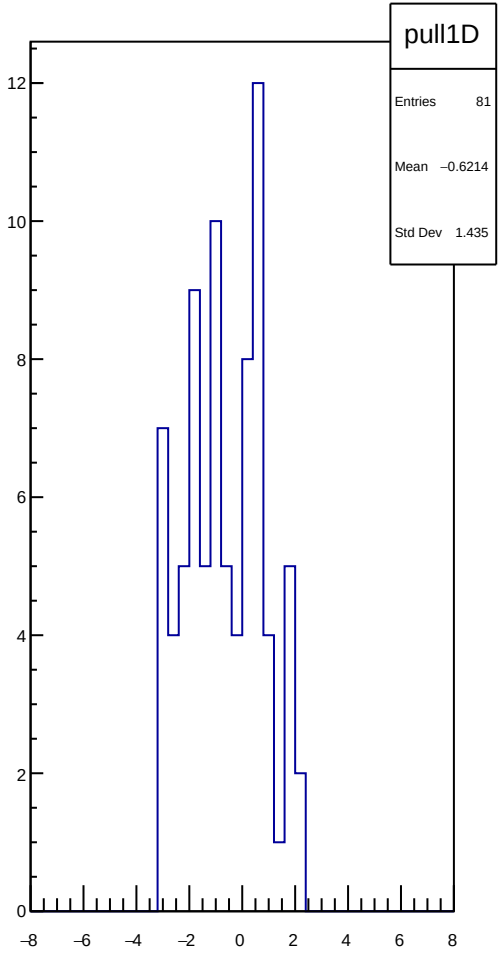

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 9.254 / 80
p0 −0.06073 ± 0.01985
pull
Entries 81
Mean 61.26
Std Dev 0

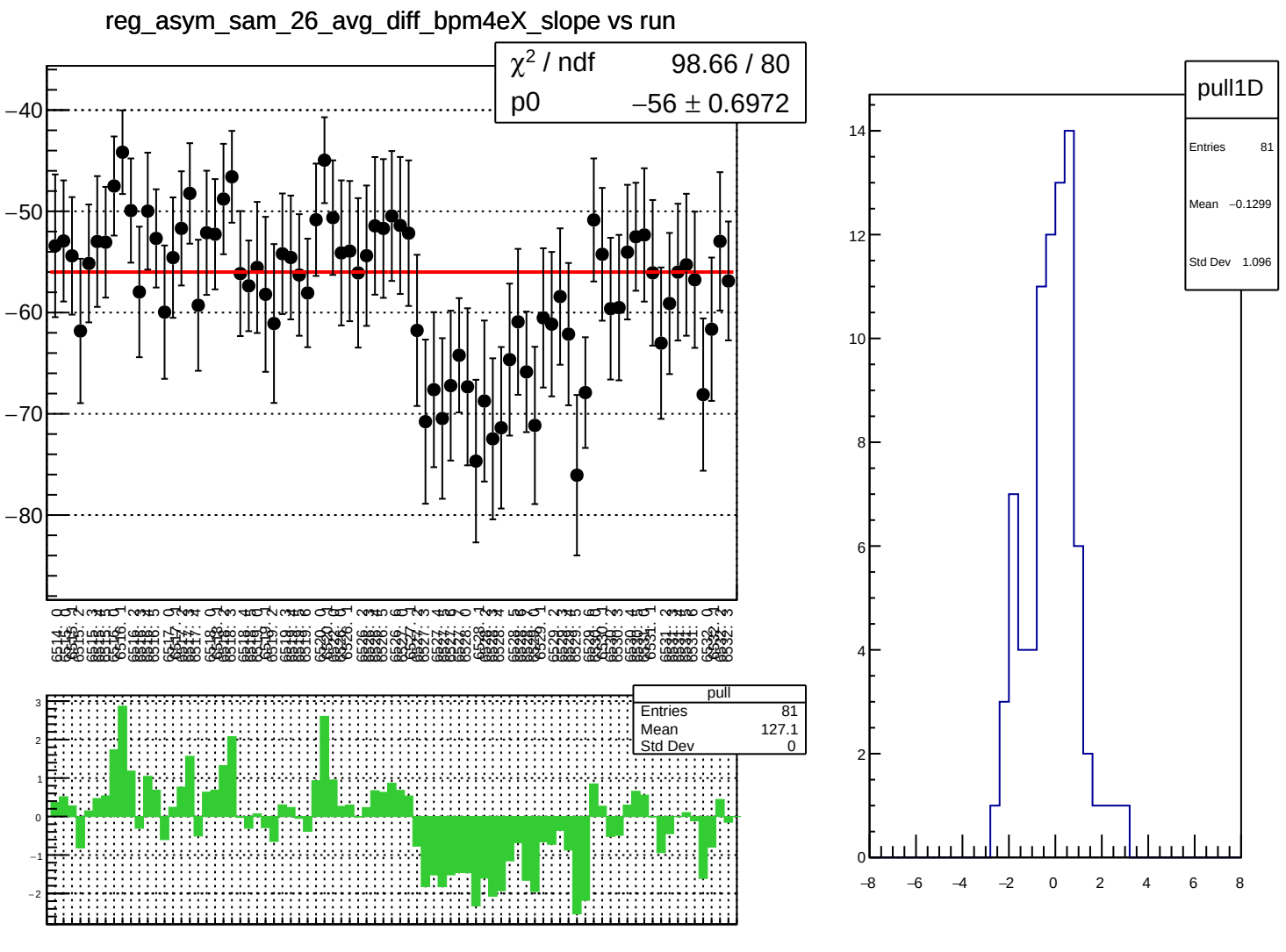

pull1D
Entries 81
Mean −0.009598
Std Dev 0.3379

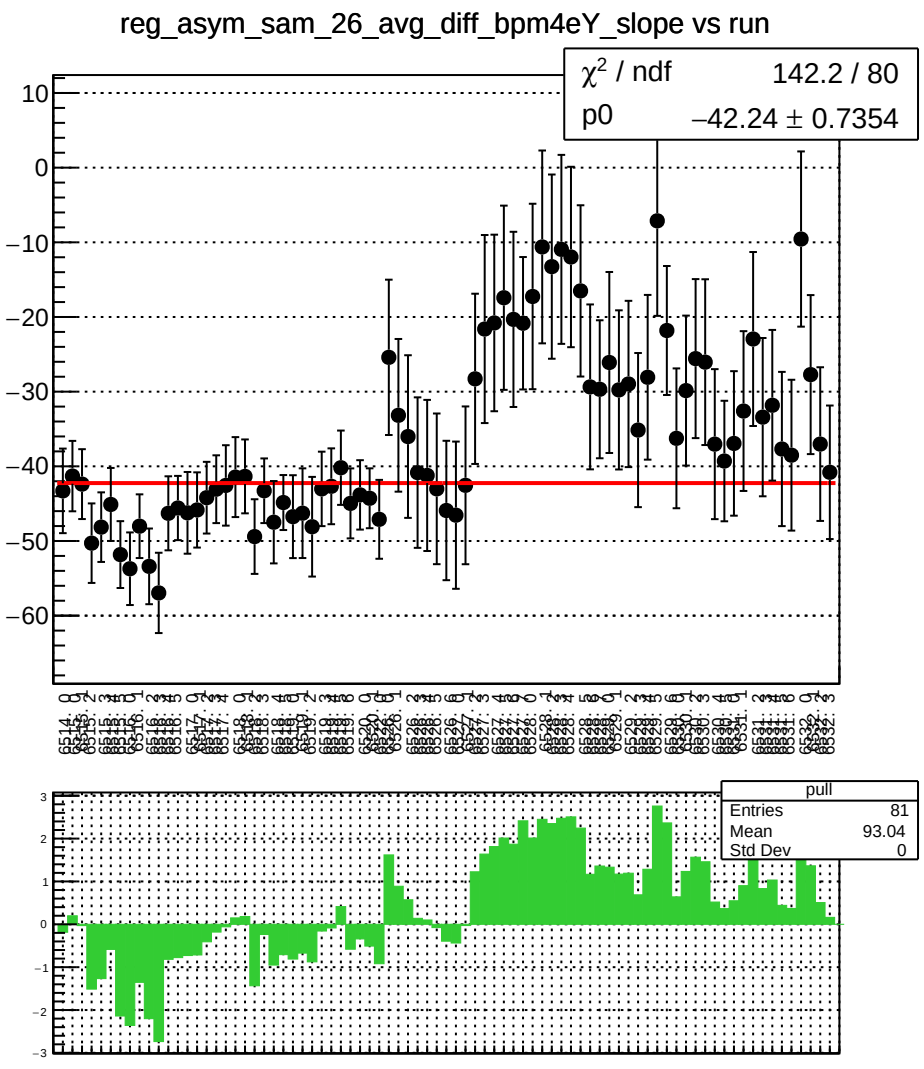

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 95.72 / 80
p0 −16.29 ± 0.6684
pull
Entries 81
Mean 110.6
Std Dev 0

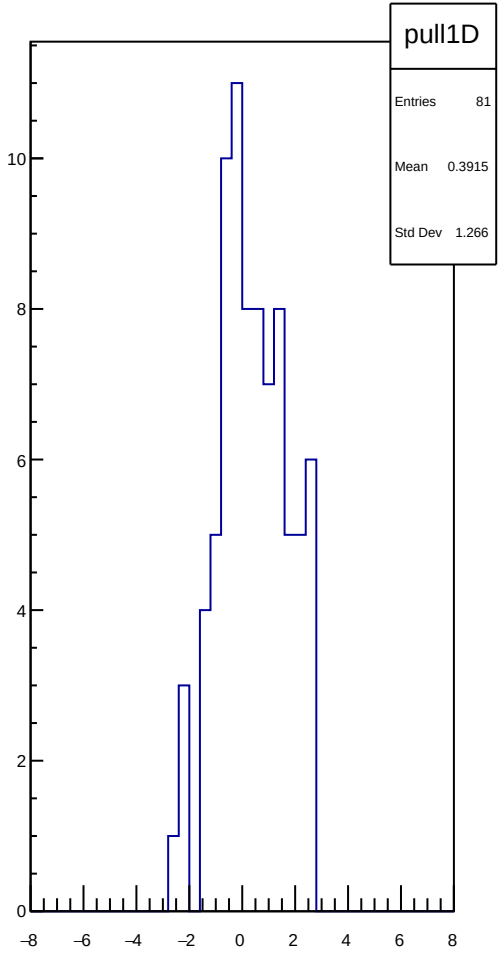

pull1D
Entries 81
Mean 0.1133
Std Dev 1.081

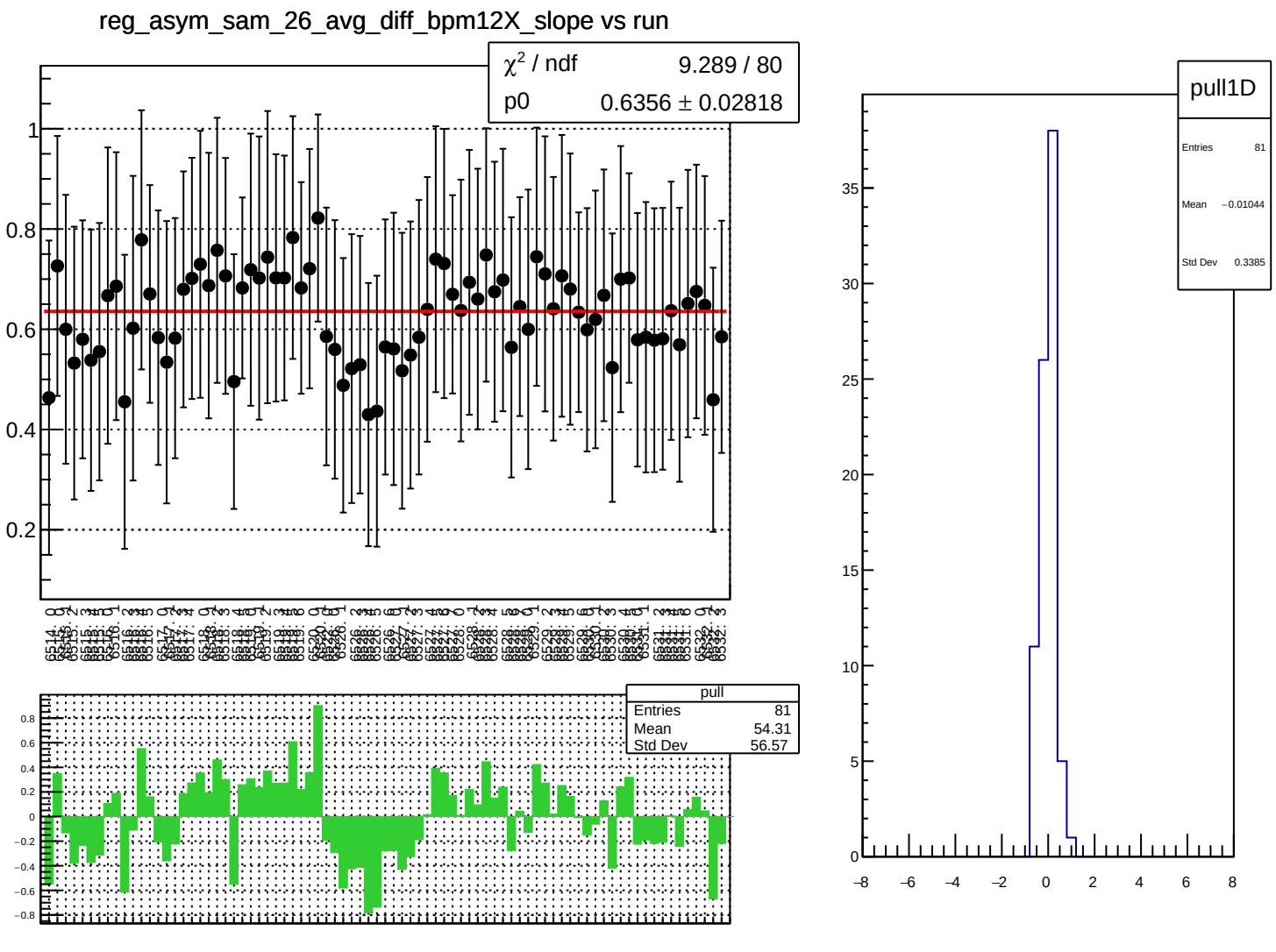

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 198.2 / 80
p0 5.183 ± 0.637
pull
Entries 81
Mean 81.24
Std Dev 0

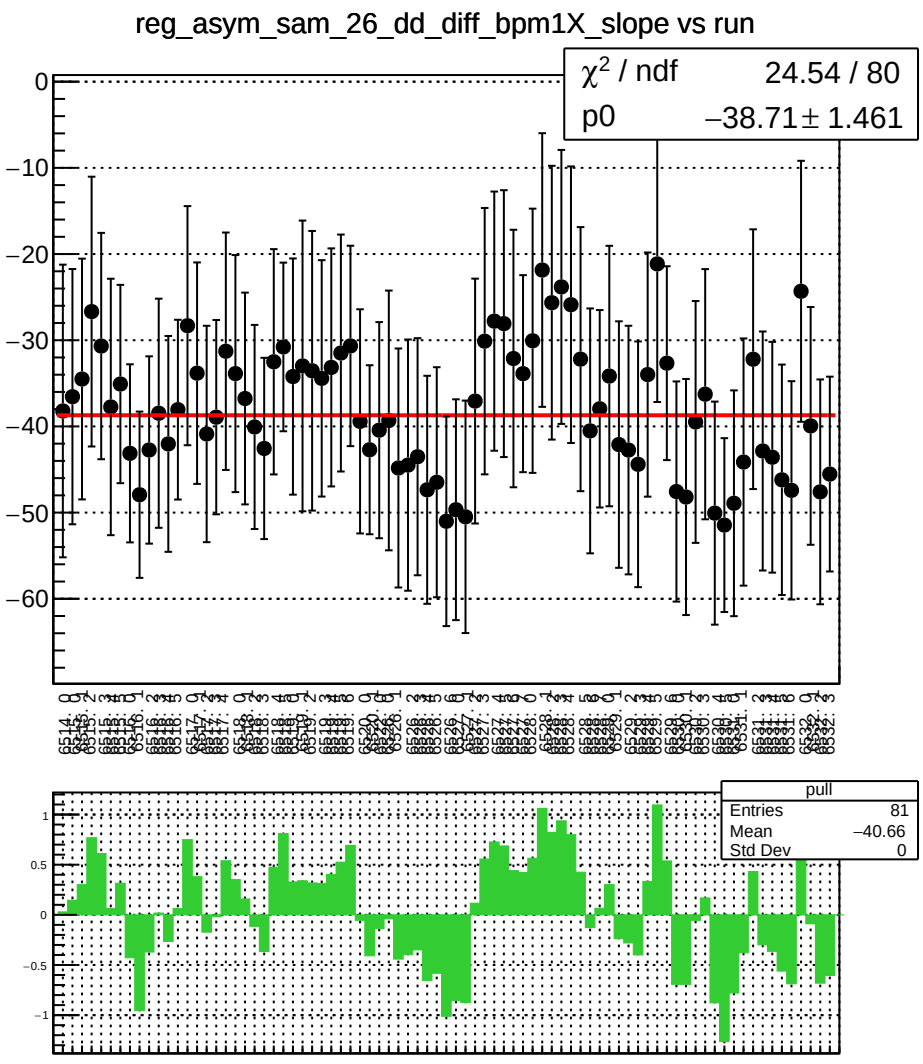

pull1D
Entries 81
Mean −0.6214
Std Dev 1.435

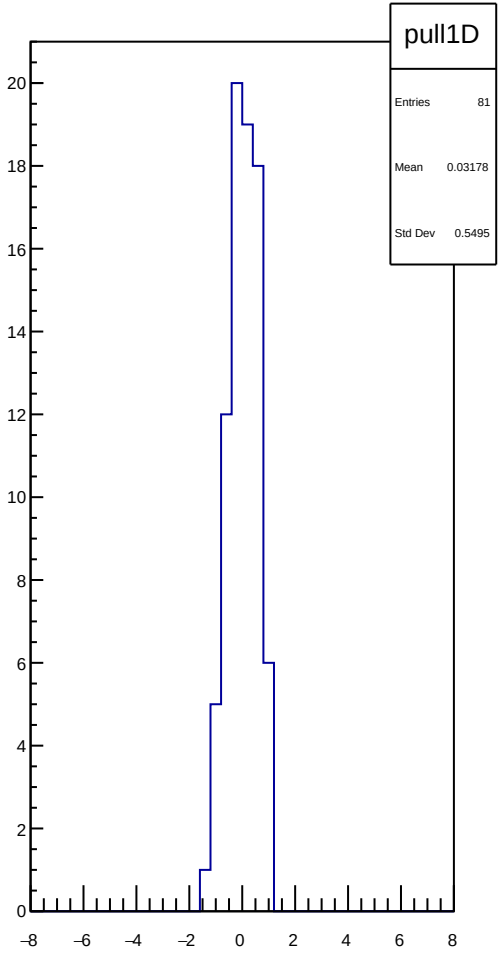

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 98.66 / 80
p0 −56 ± 0.6972
−40
−50
−60
−70
−80
pull
Entries 81
Mean 127.1
Std Dev 0
pull1D
Entries 81
Mean −0.1299
Std Dev 1.096

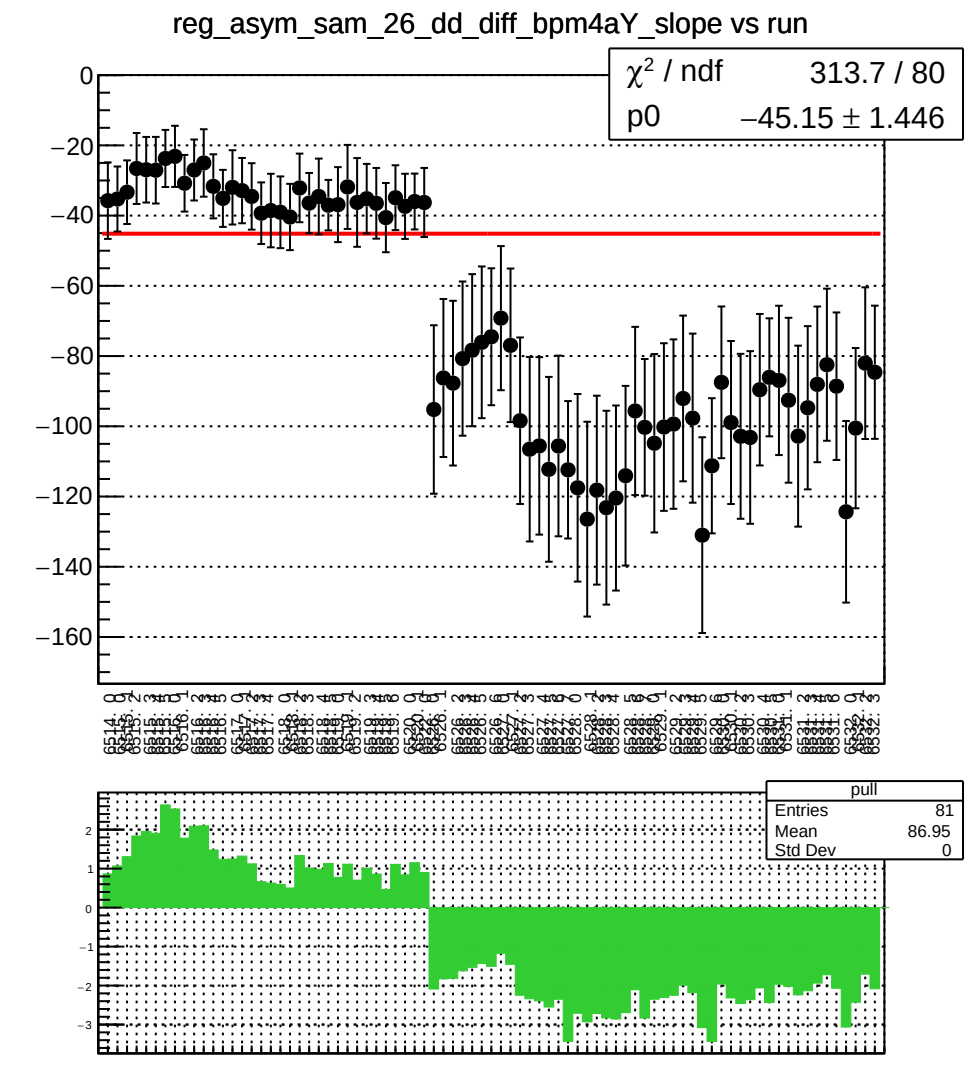

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 142.2 / 80
p0 −42.24 ± 0.7354
pull
Entries 81
Mean 93.04
Std Dev 0

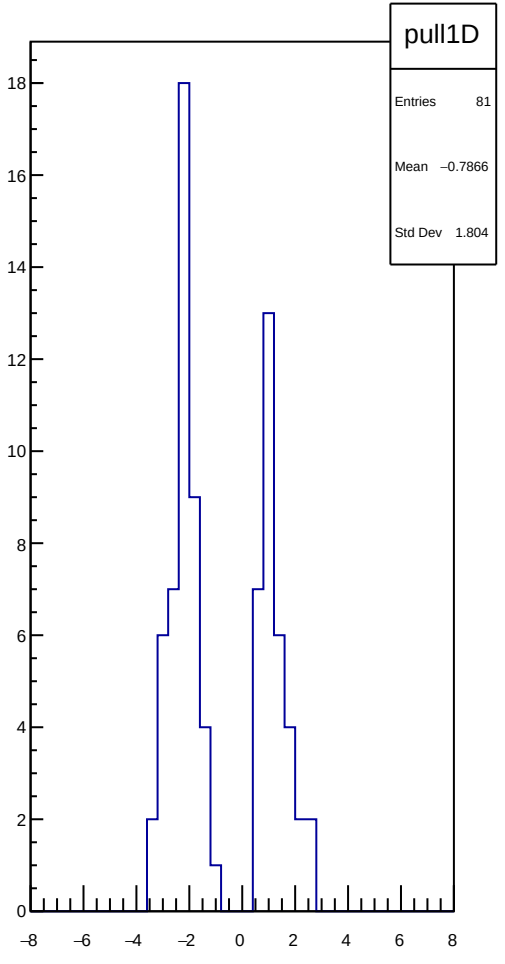

pull1D
Entries 81
Mean 0.3915
Std Dev 1.266

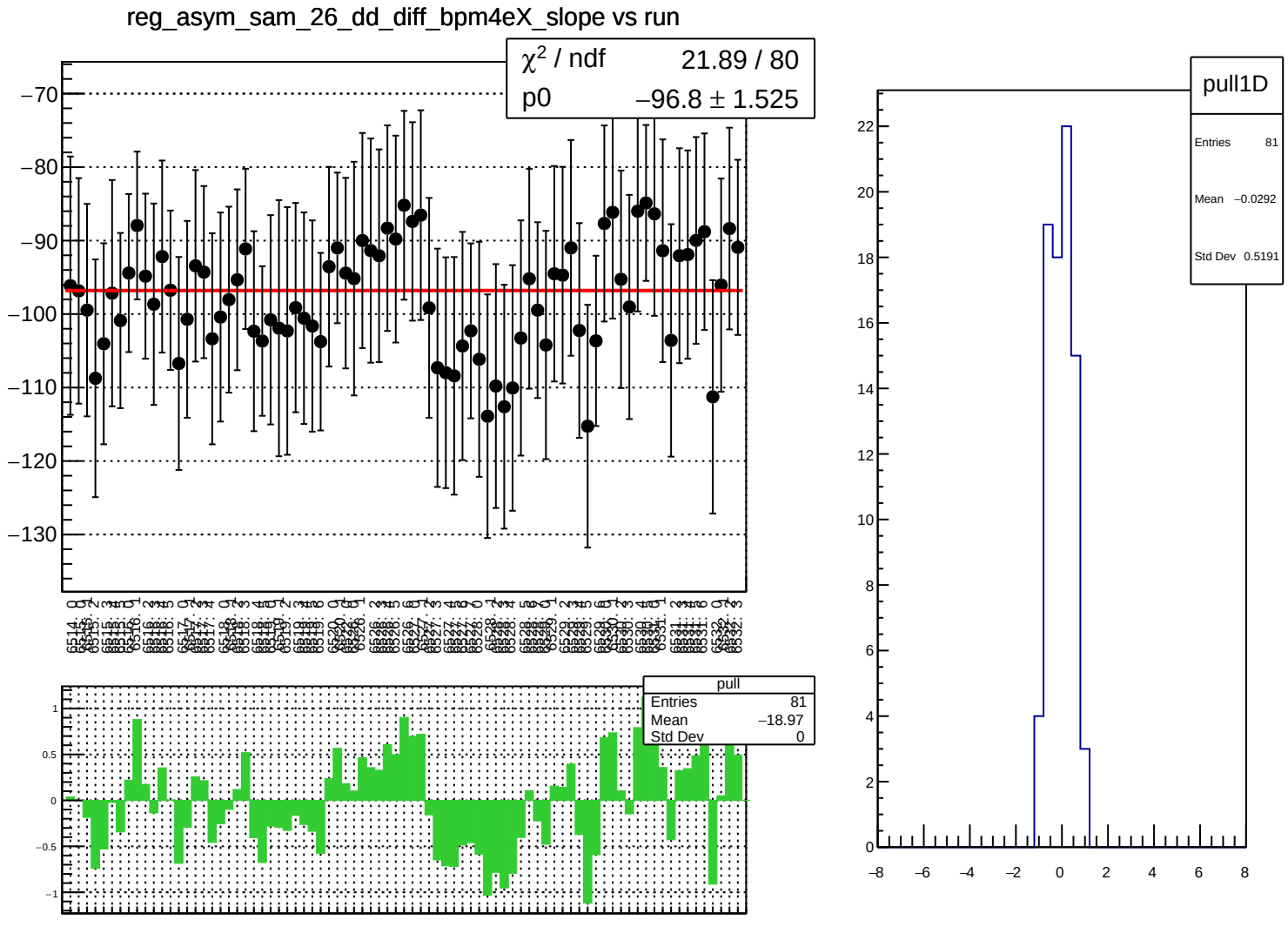

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 9.289 / 80
p0 0.6356 ± 0.02818
pull
Entries 81
Mean 54.31
Std Dev 56.57
pull1D
Entries 81
Mean −0.01044
Std Dev 0.3385

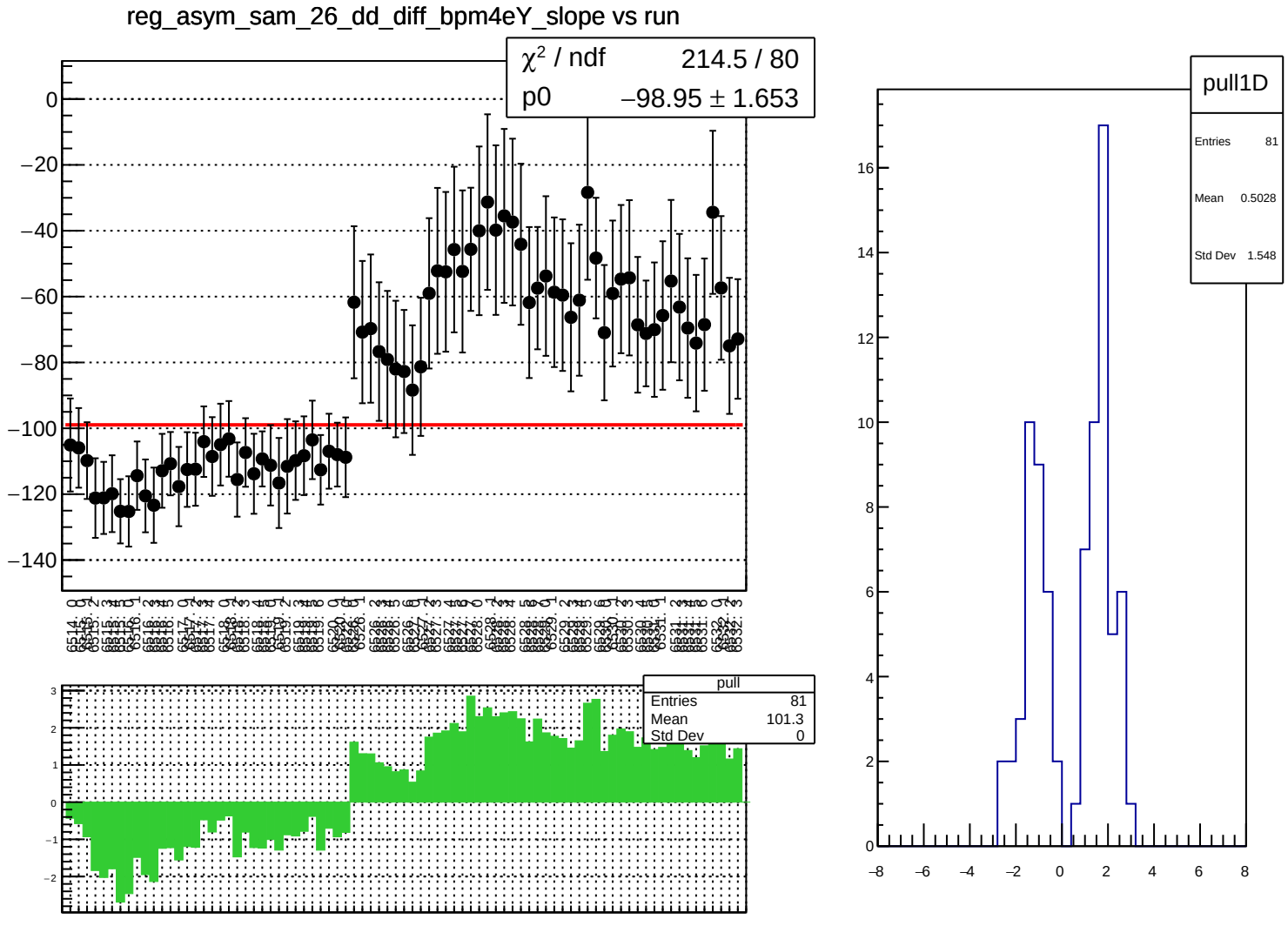

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 24.54 / 80
p0 −38.71 ± 1.461
pull
Entries 81
Mean −40.66
Std Dev 0

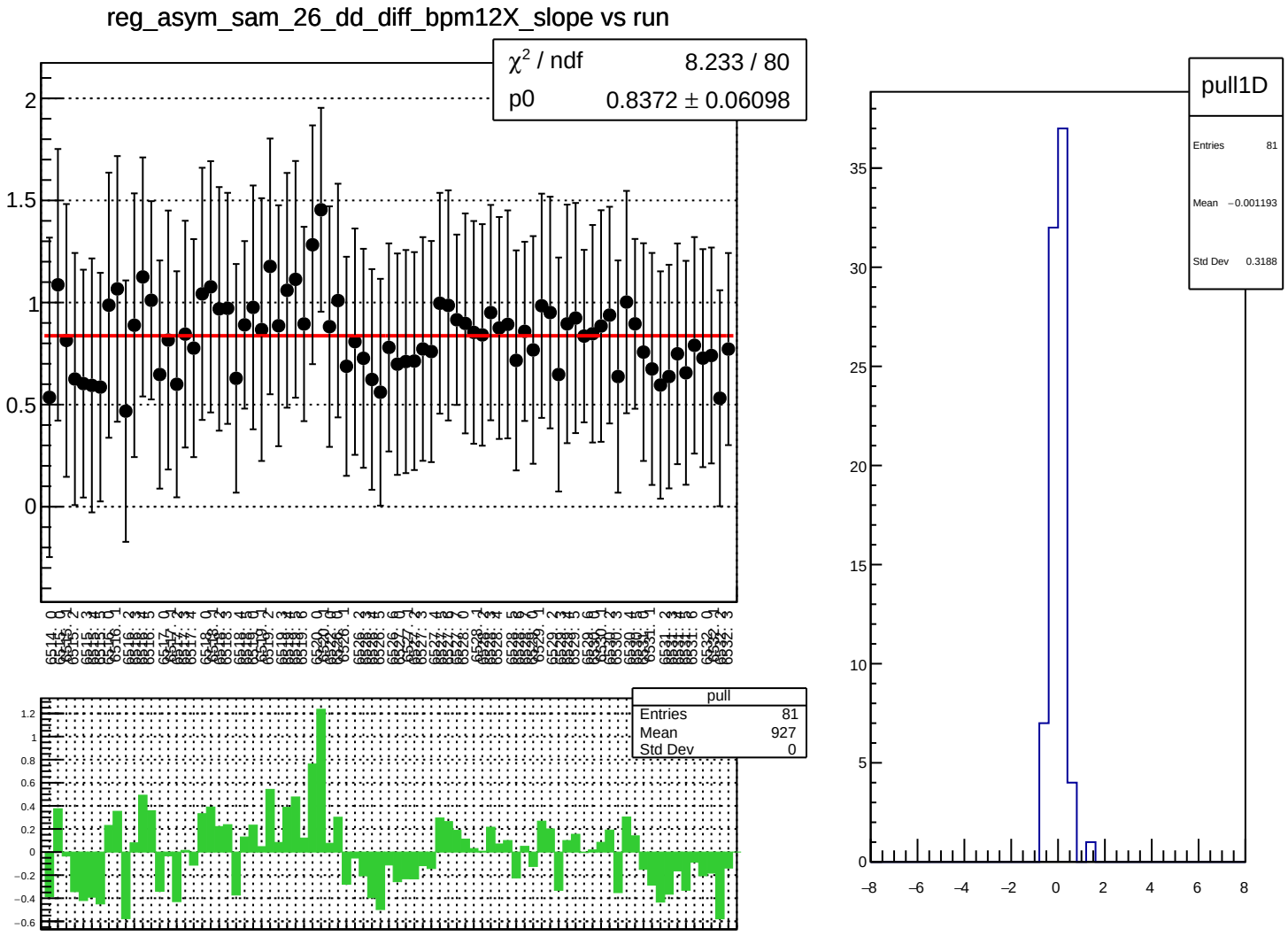

pull1D
Entries 81
Mean 0.03178
Std Dev 0.5495

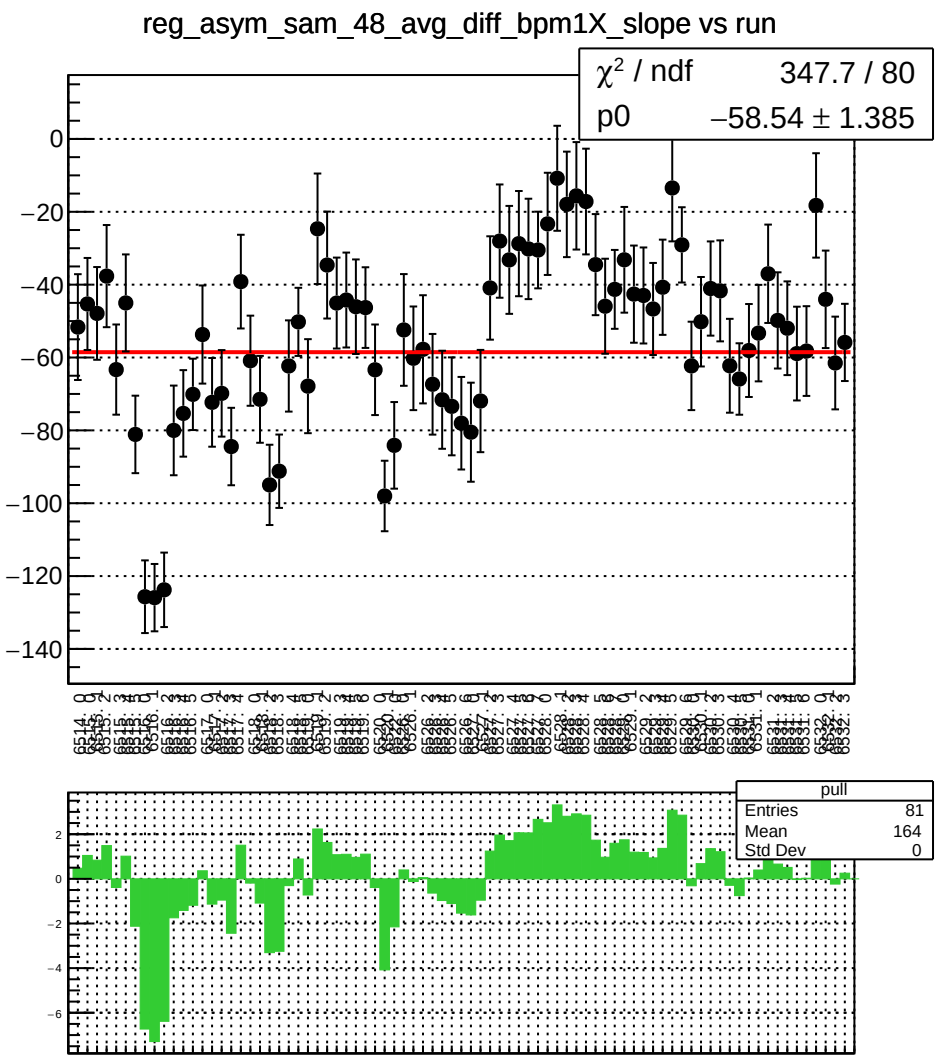

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 313.7 / 80
p0 −45.15 ± 1.446
pull
Entries 81
Mean 86.95
Std Dev 0

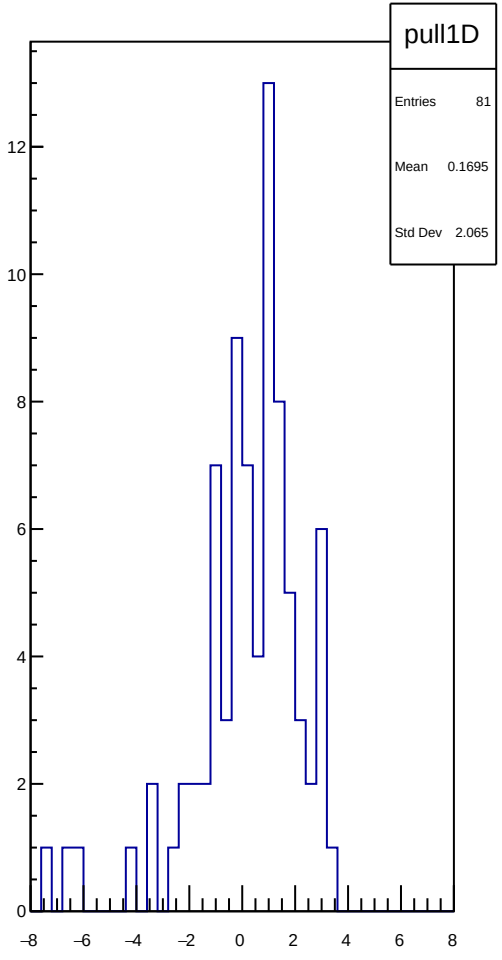

pull1D
Entries 81
Mean −0.7866
Std Dev 1.804

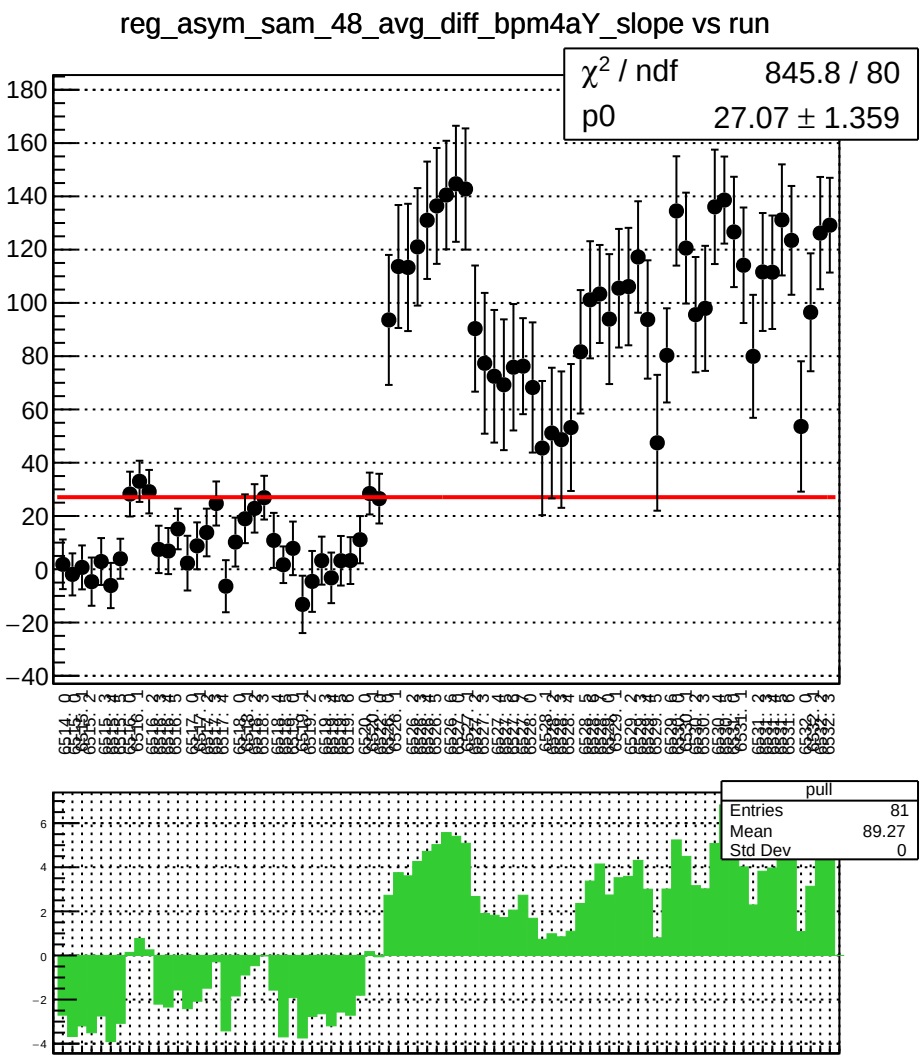

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 21.89 / 80
p0 −96.8 ± 1.525
pull
Entries 81
Mean −18.97
Std Dev 0
pull1D
Entries 81
Mean −0.0292
Std Dev 0.5191

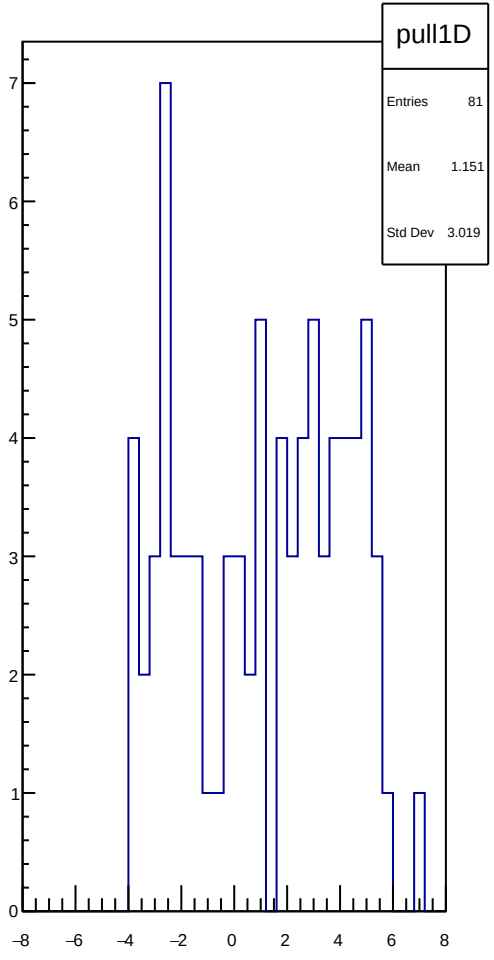

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 214.5 / 80
p0 −98.95 ± 1.653
pull
Entries 81
Mean 101.3
Std Dev 0
pull1D
Entries 81
Mean 0.5028
Std Dev 1.548

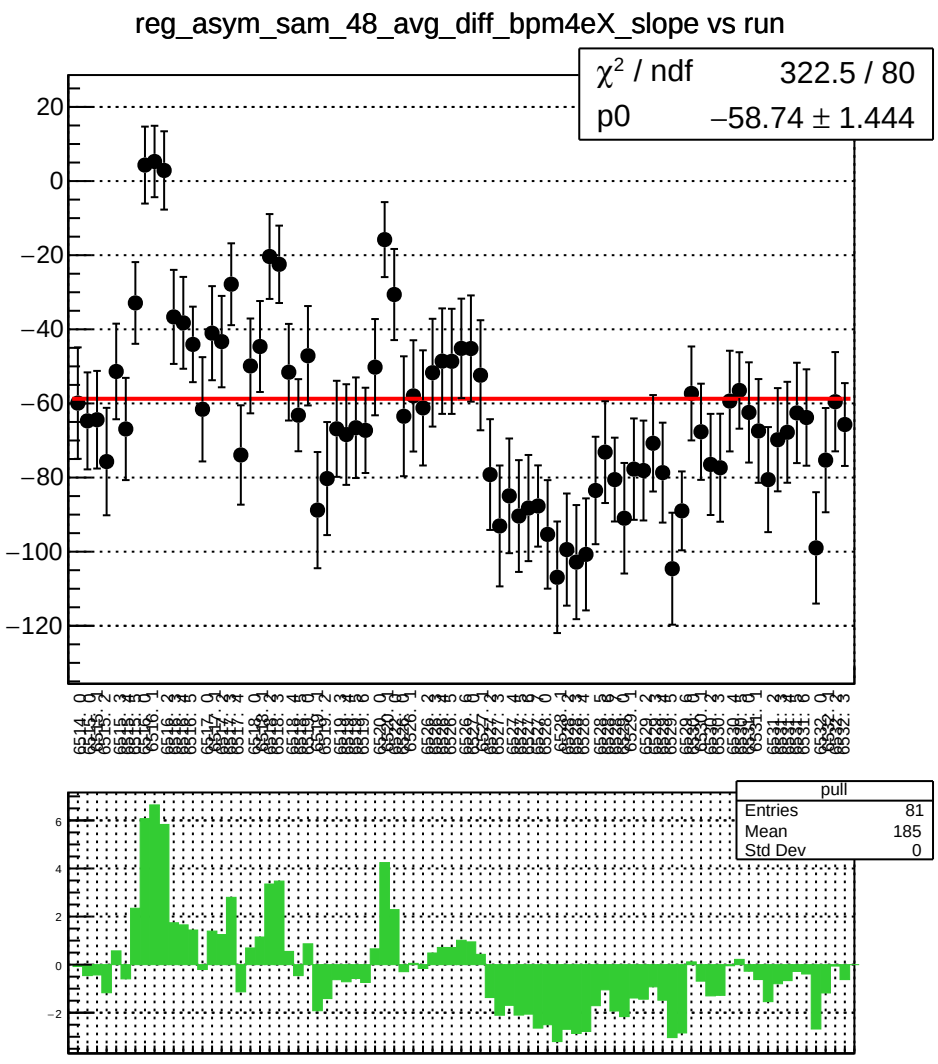

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 8.233 / 80
p0 0.8372 ± 0.06098
pull
Entries 81
Mean 927
Std Dev 0
pull1D
Entries 81
Mean −0.001193
Std Dev 0.3188

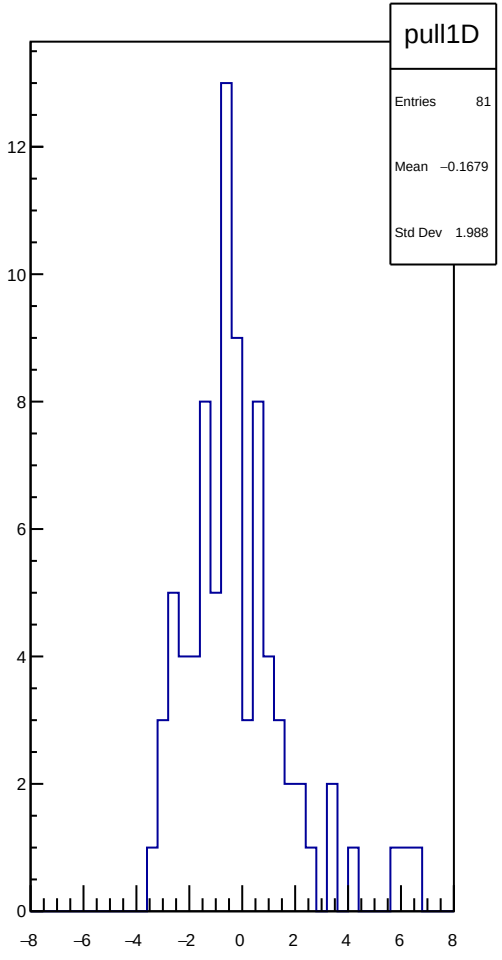

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 347.7 / 80
p0 −58.54 ± 1.385
pull
Entries 81
Mean 164
Std Dev 0

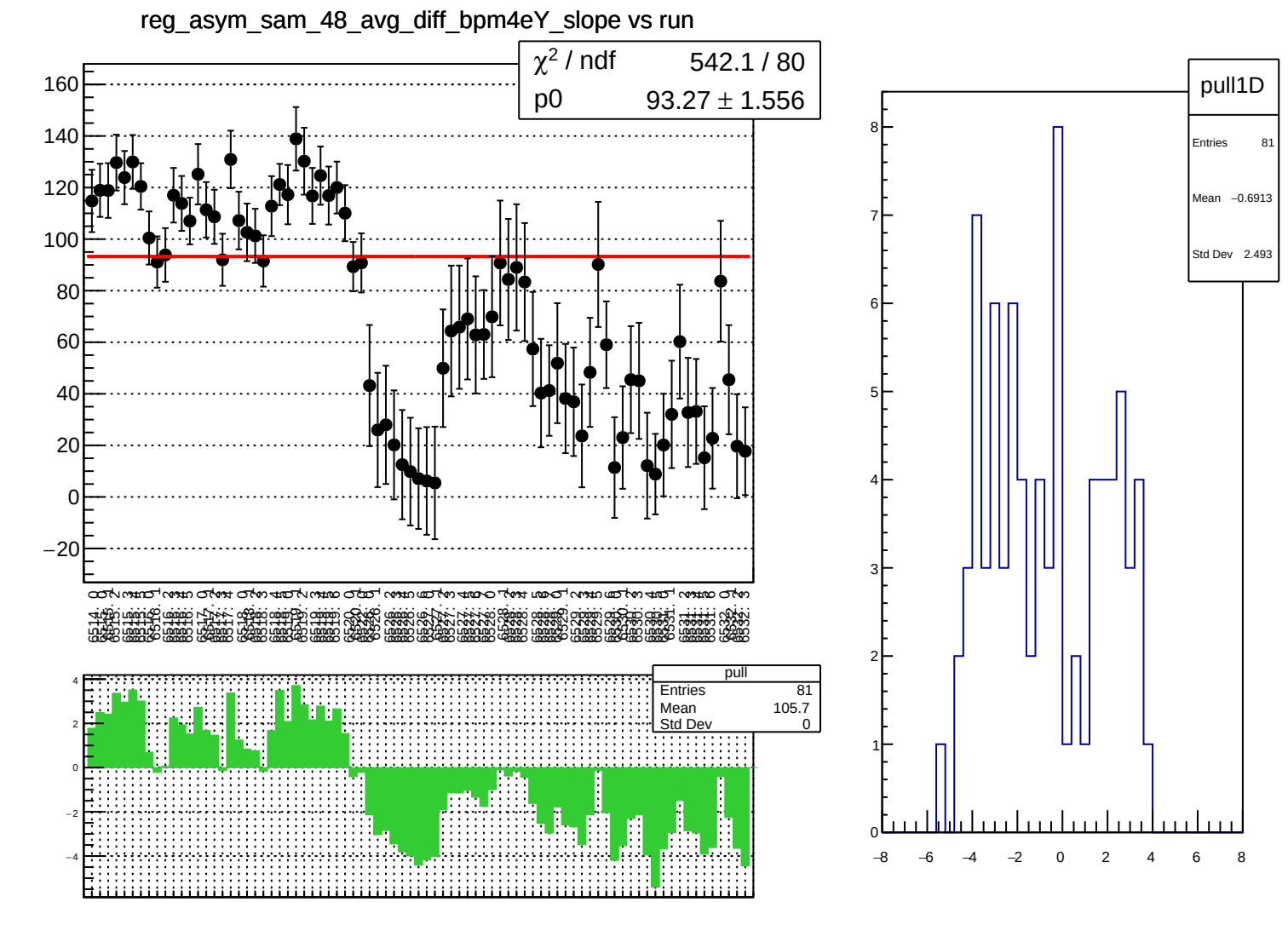

pull1D
Entries 81
Mean 0.1695
Std Dev 2.065

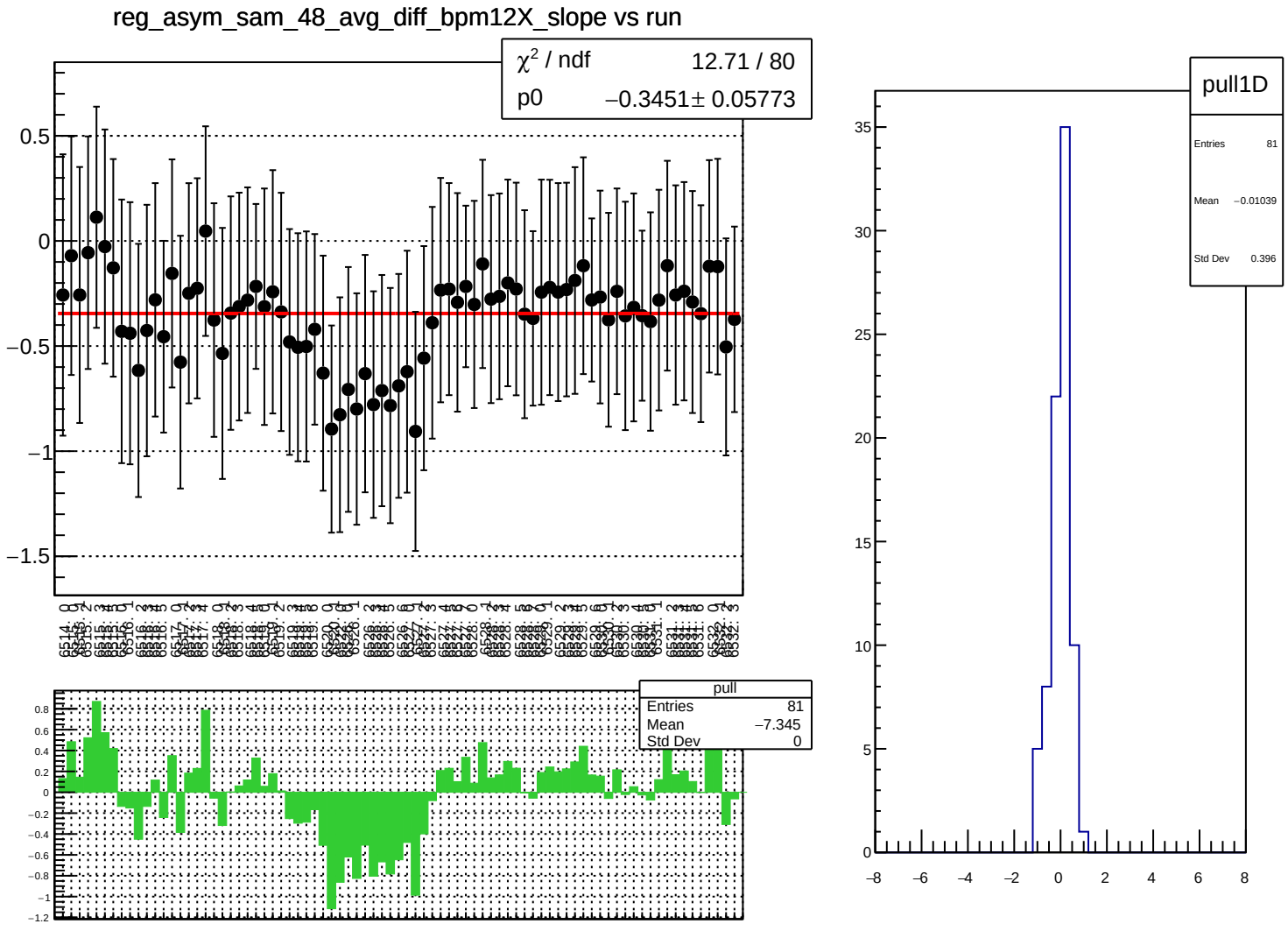

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 845.8 / 80
p0 27.07 ± 1.359
pull
Entries 81
Mean 89.27
Std Dev 0

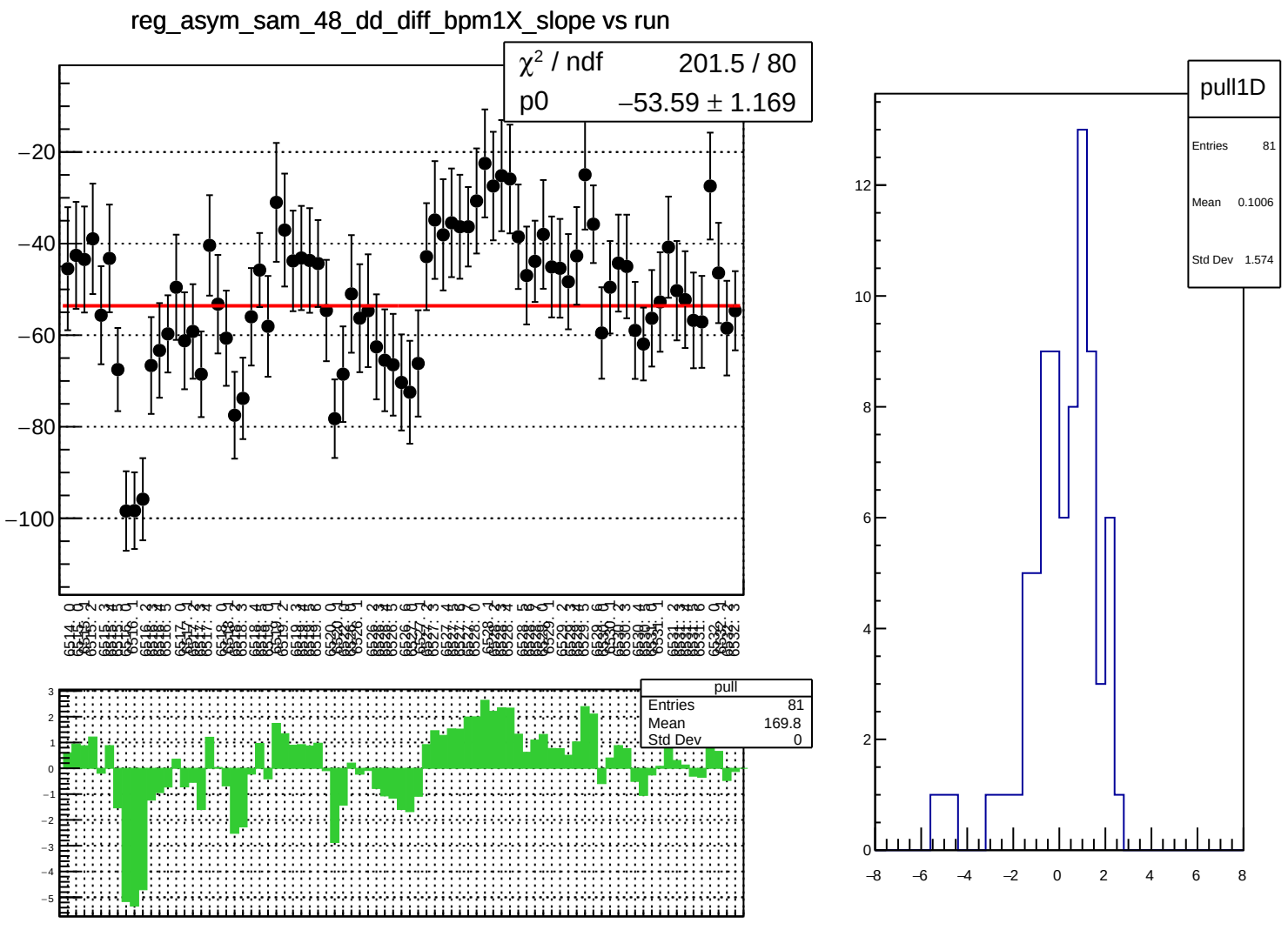

pull1D
Entries 81
Mean 1.151
Std Dev 3.019

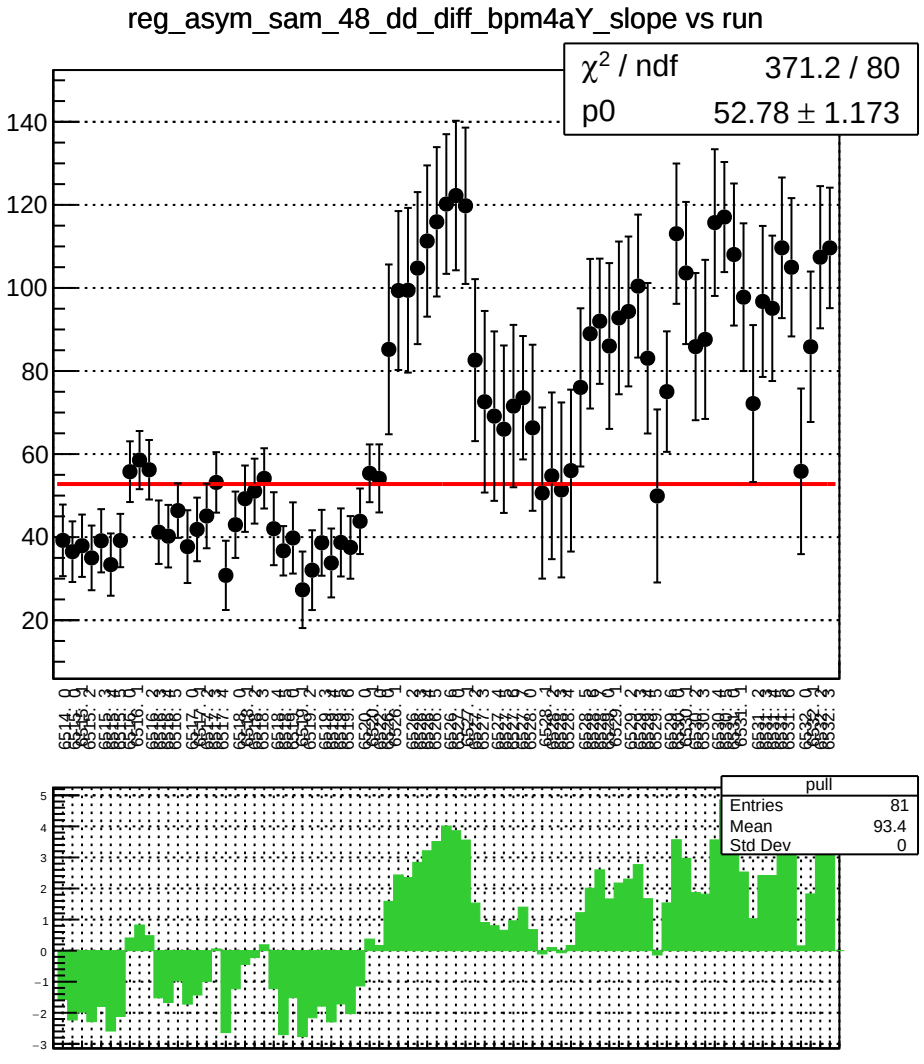

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 322.5 / 80
p0 −58.74 ± 1.444
pull
Entries 81
Mean 185
Std Dev 0

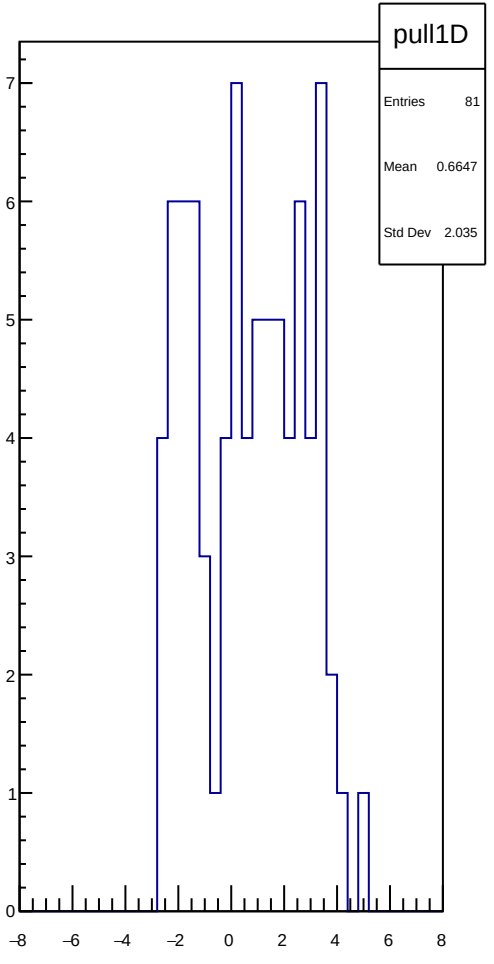

pull1D
Entries 81
Mean −0.1679
Std Dev 1.988

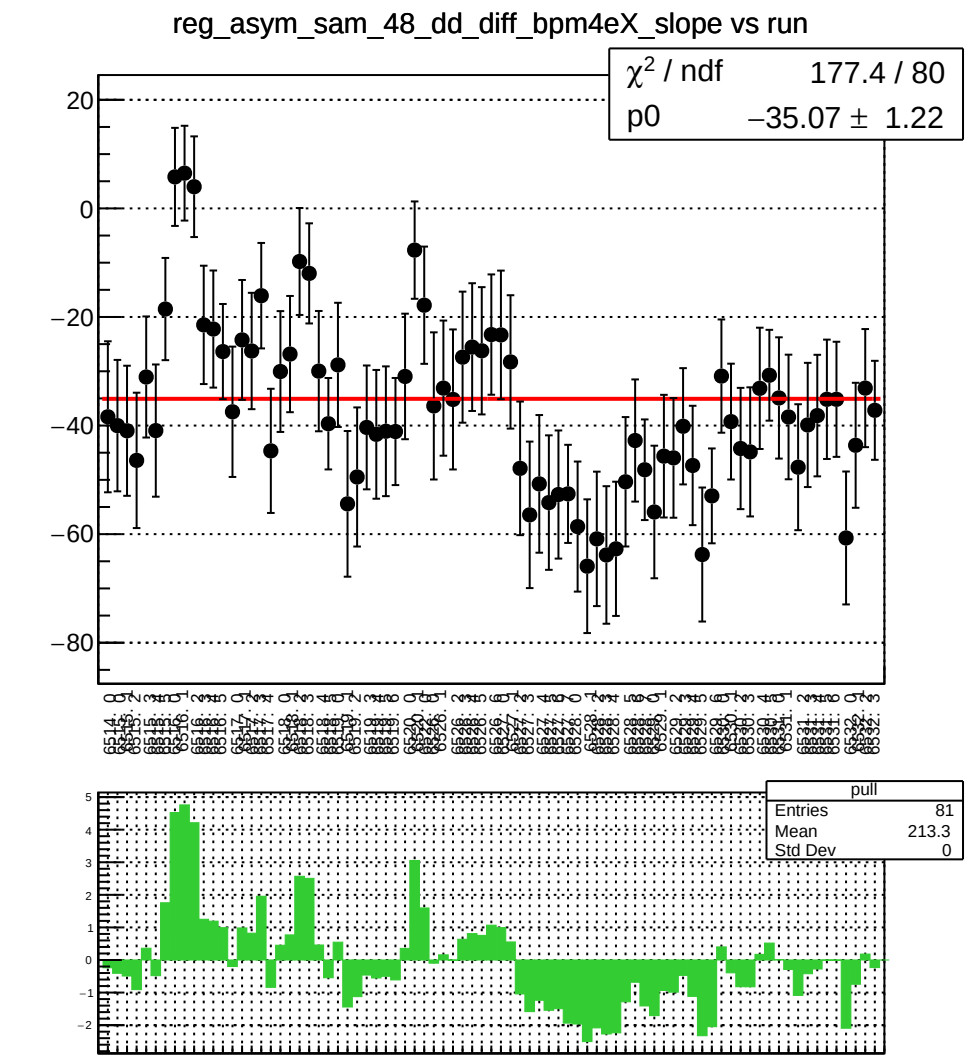

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 542.1 / 80
p0 93.27 ± 1.556
pull
Entries 81
Mean 105.7
Std Dev 0
pull1D
Entries 81
Mean −0.6913
Std Dev 2.493

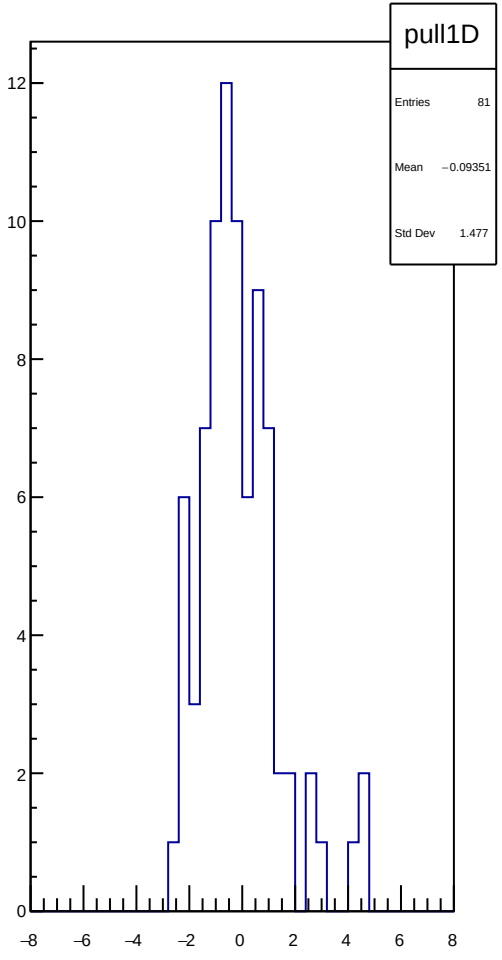

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 12.71 / 80
p0 −0.3451± 0.05773
pull
Entries 81
Mean −7.345
Std Dev 0
pull1D
Entries 81
Mean −0.01039
Std Dev 0.396

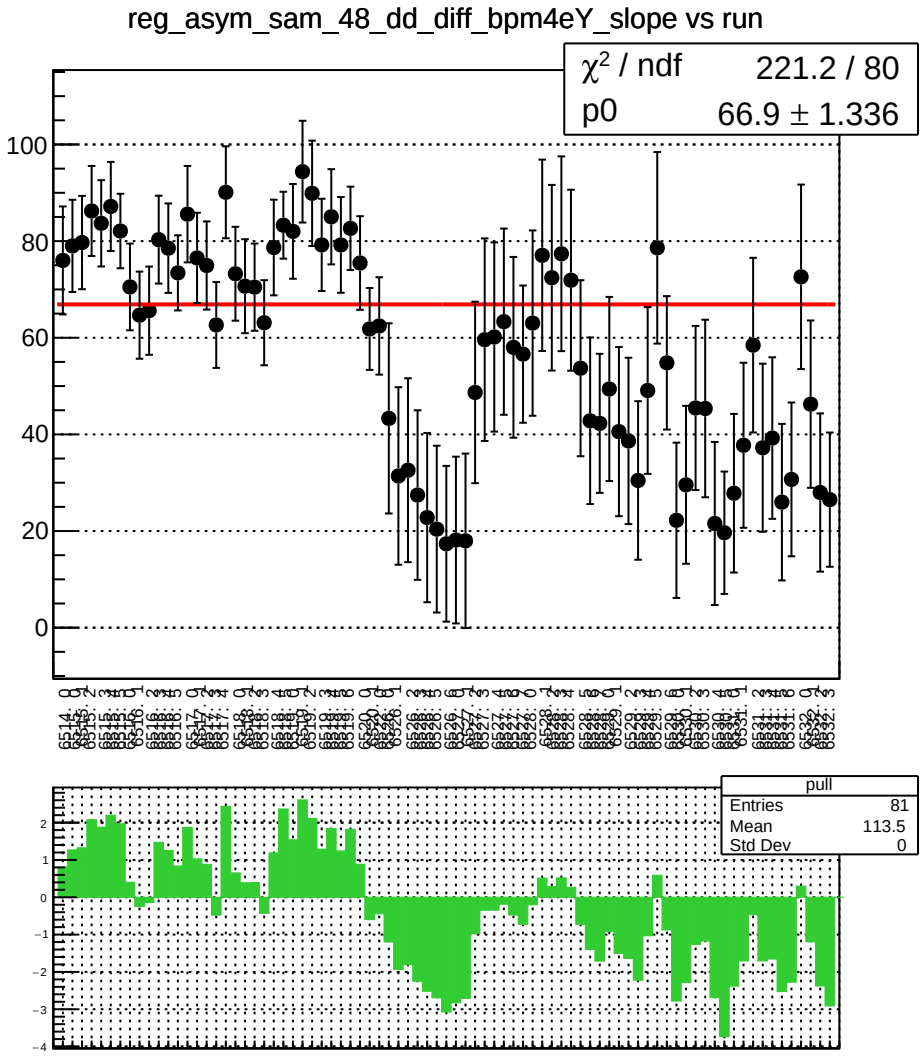

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 201.5 / 80
p0 −53.59 ± 1.169
−20
−40
−60
−80
−100
pull
Entries 81
Mean 169.8
Std Dev 0
3
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 81
Mean 0.1006
Std Dev 1.574
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

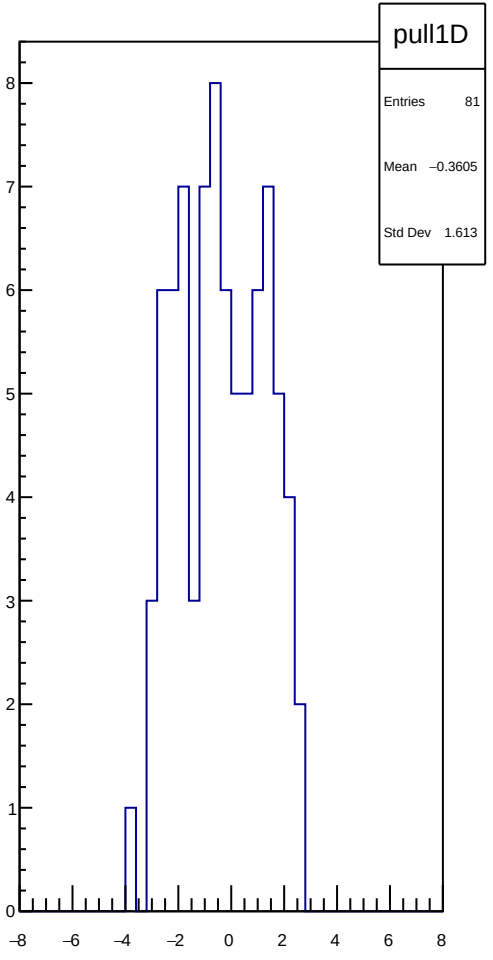

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 371.2 / 80
p0 52.78 ± 1.173
pull
Entries 81
Mean 93.4
Std Dev 0

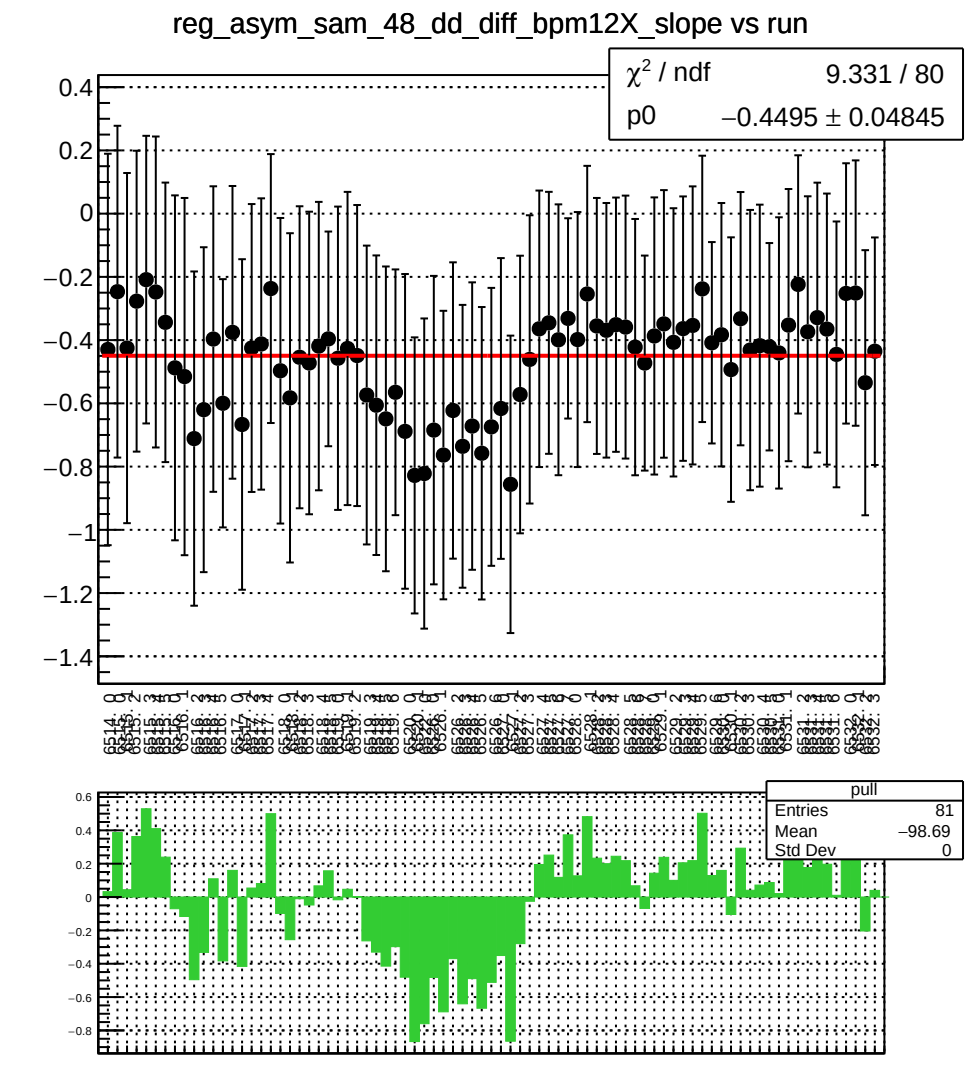

pull1D
Entries 81
Mean 0.6647
Std Dev 2.035

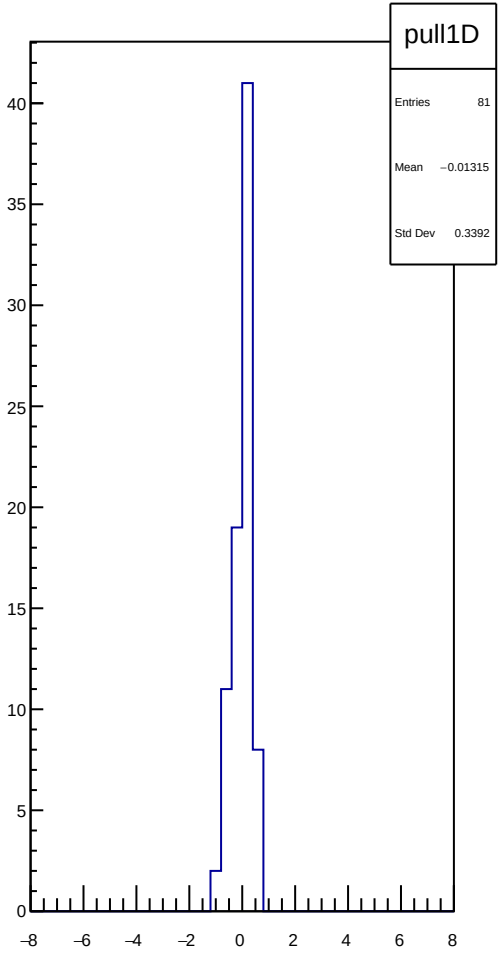

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 177.4 / 80
p0 −35.07 ± 1.22
pull
Entries 81
Mean 213.3
Std Dev 0

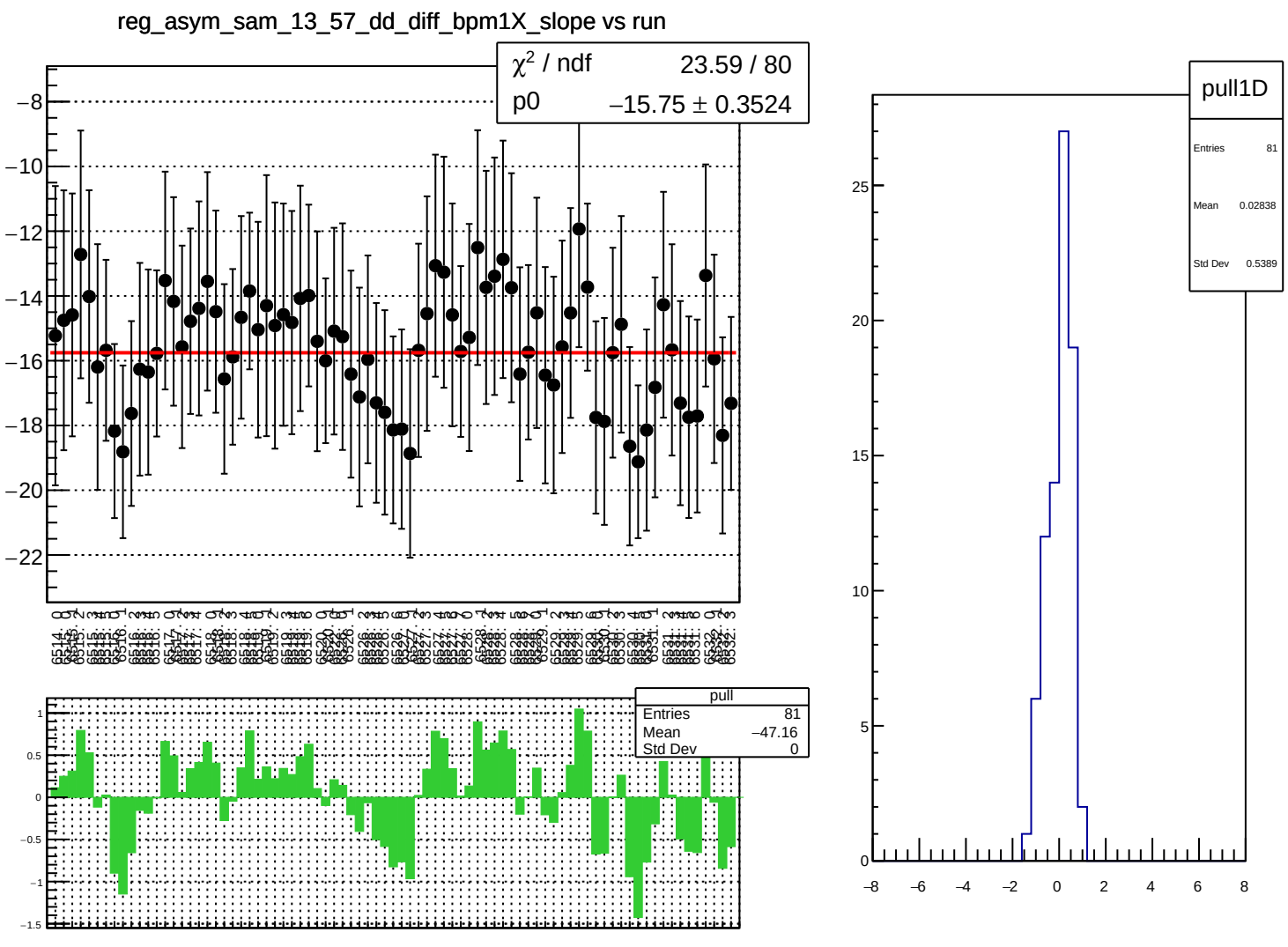

pull1D
Entries 81
Mean −0.09351
Std Dev 1.477

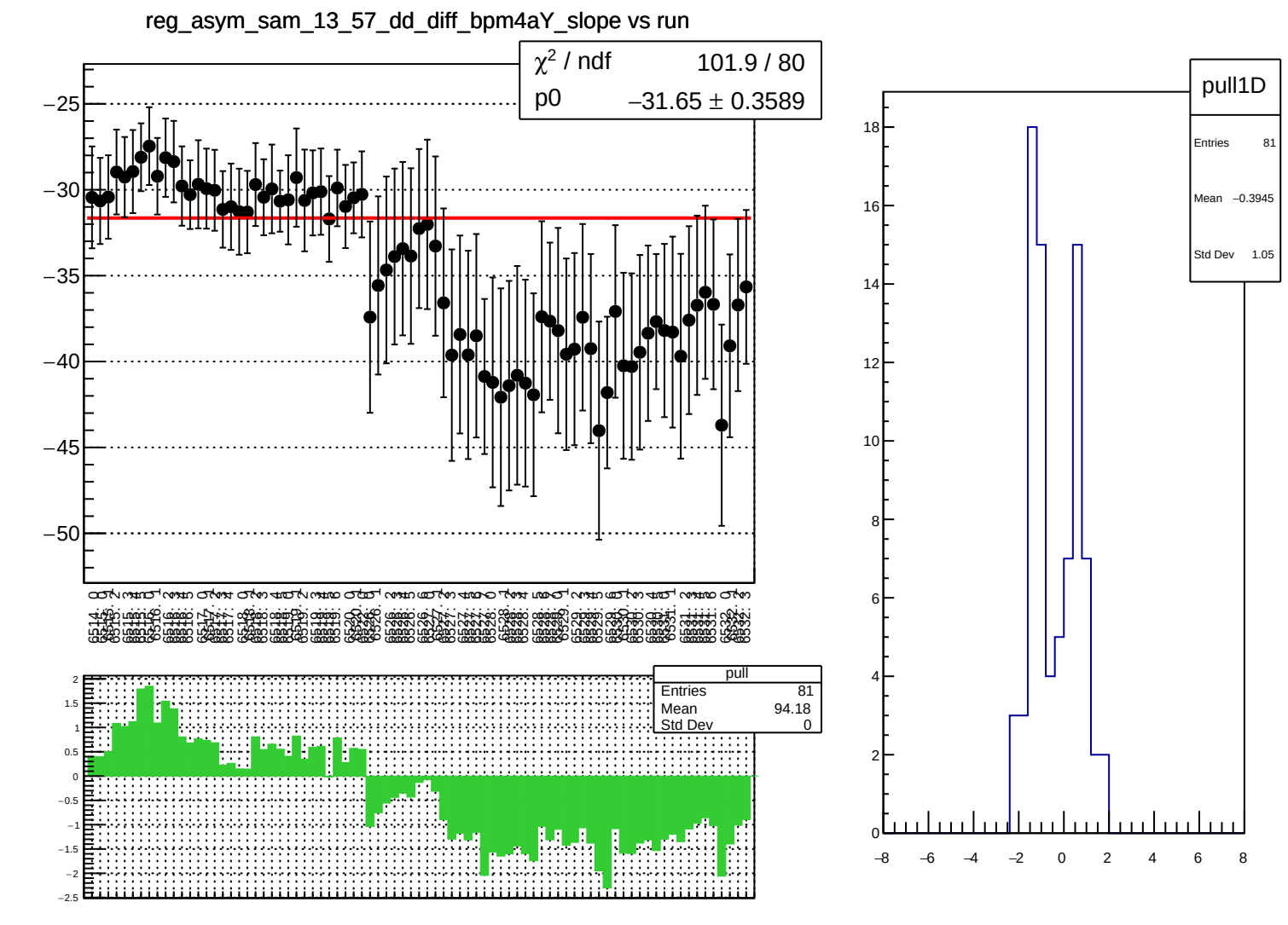

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 221.2 / 80
p0 66.9 ± 1.336
pull
Entries 81
Mean 113.5
Std Dev 0

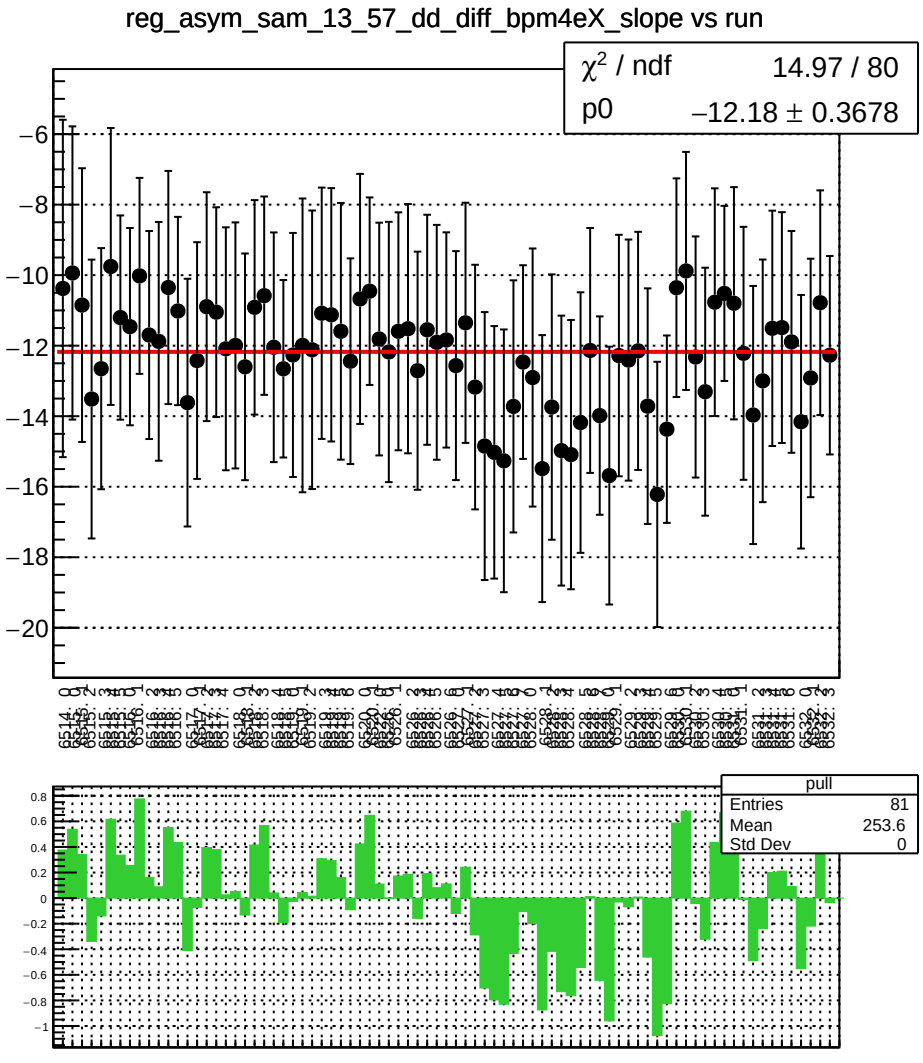

pull1D
Entries 81
Mean −0.3605
Std Dev 1.613

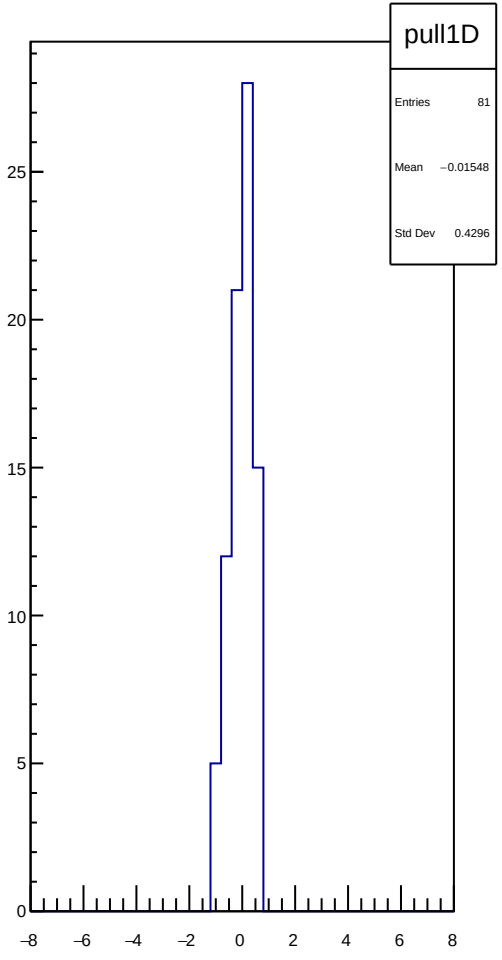

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 9.331 / 80
p0 −0.4495 ± 0.04845
pull
Entries 81
Mean −98.69
Std Dev 0

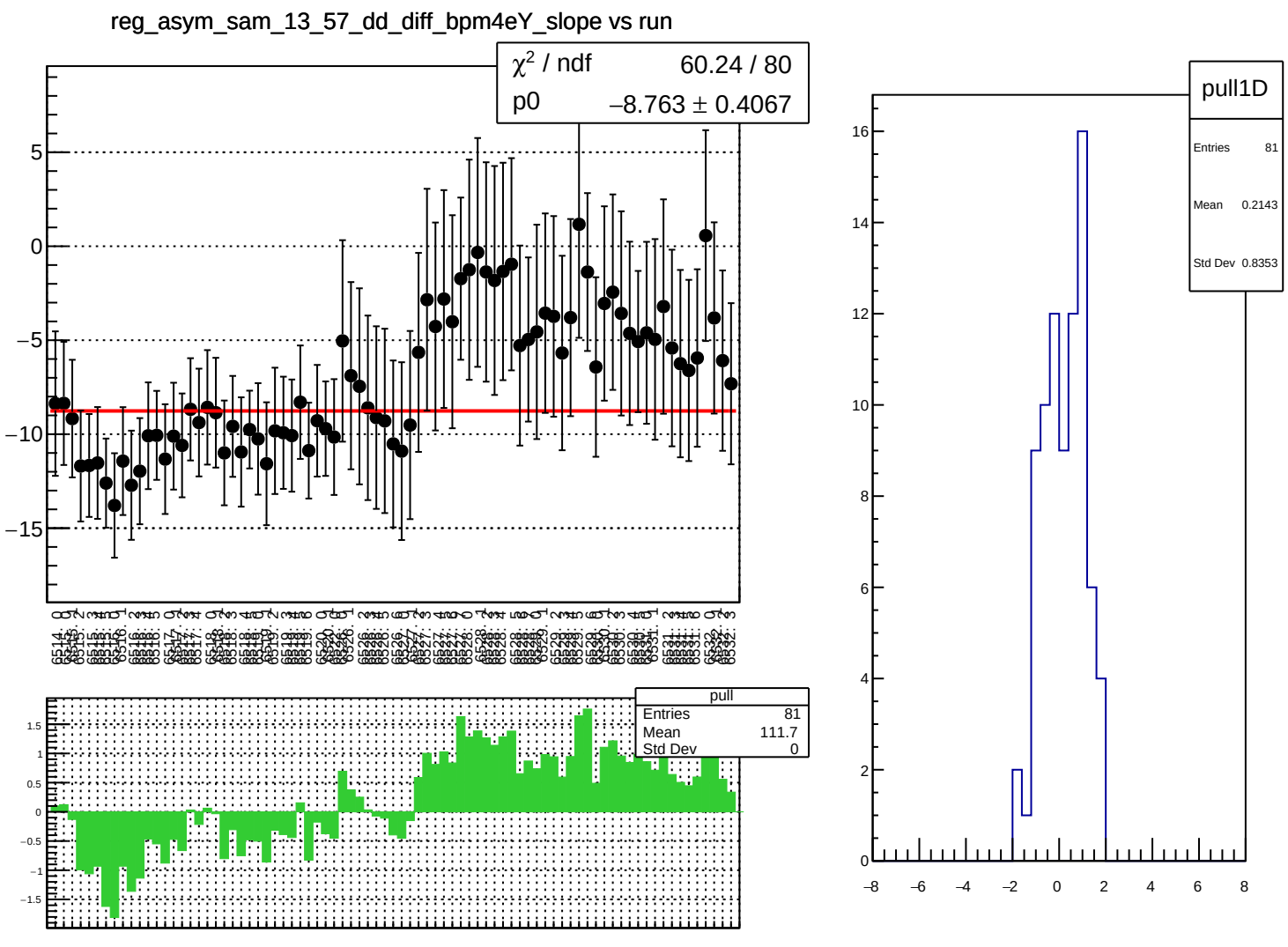

pull1D
Entries 81
Mean −0.01315
Std Dev 0.3392

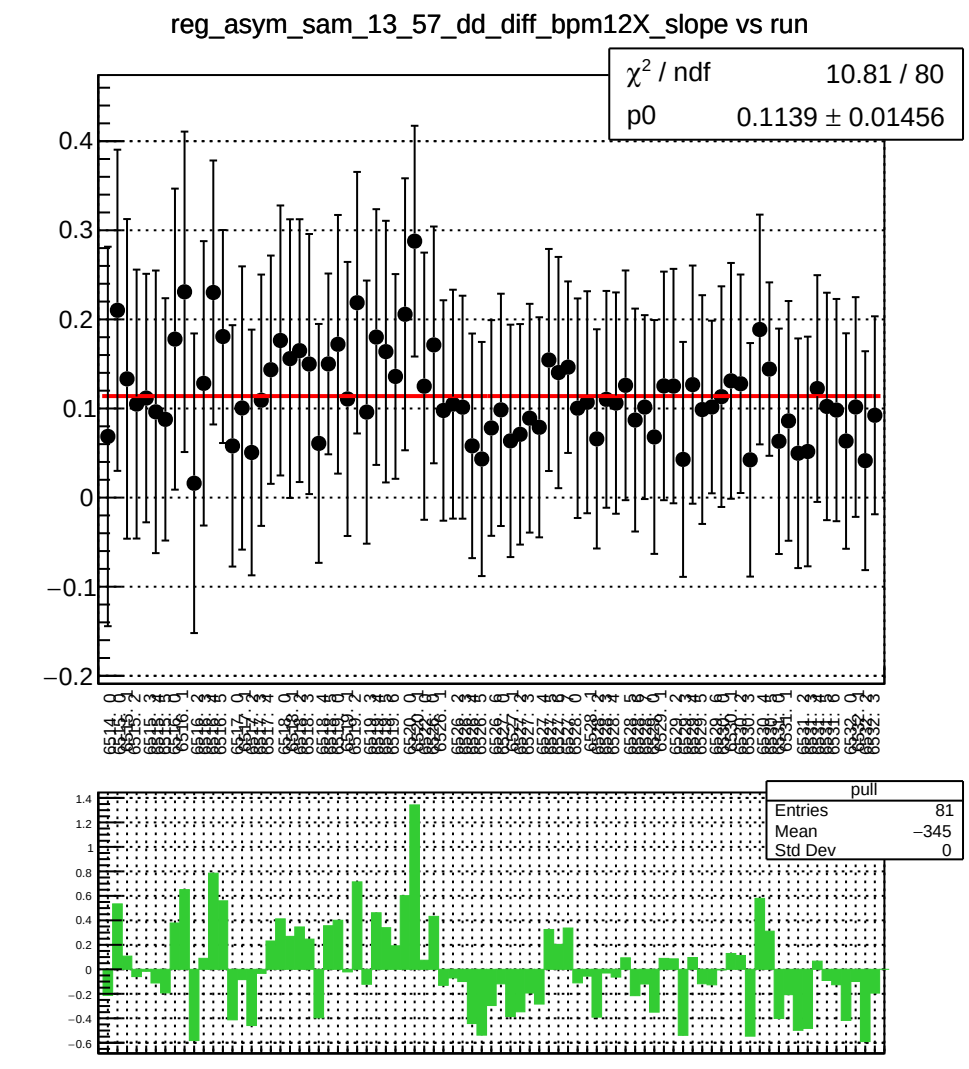

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 23.59 / 80
p0 −15.75 ± 0.3524
pull
Entries 81
Mean −47.16
Std Dev 0
pull1D
Entries 81
Mean 0.02838
Std Dev 0.5389

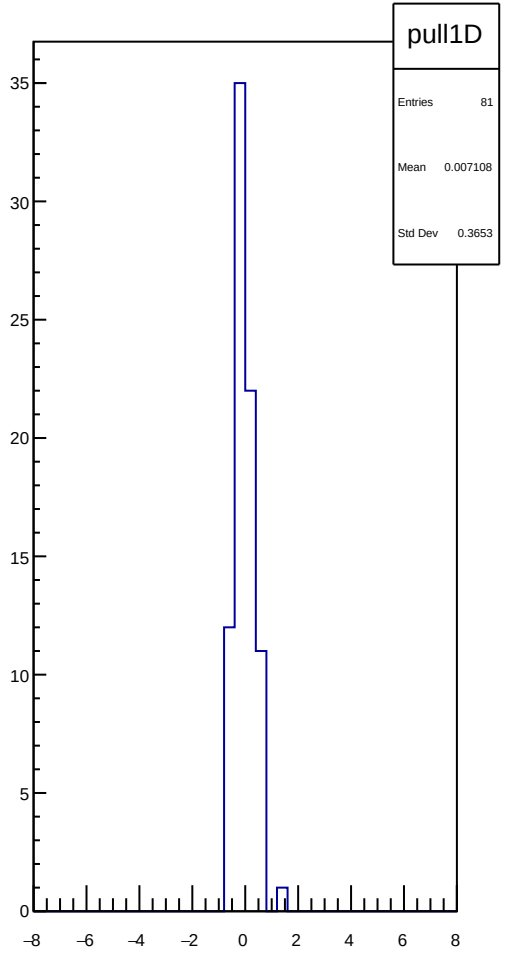

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 101.9 / 80
p0 −31.65 ± 0.3589
pull
Entries 81
Mean 94.18
Std Dev 0
pull1D
Entries 81
Mean −0.3945
Std Dev 1.05

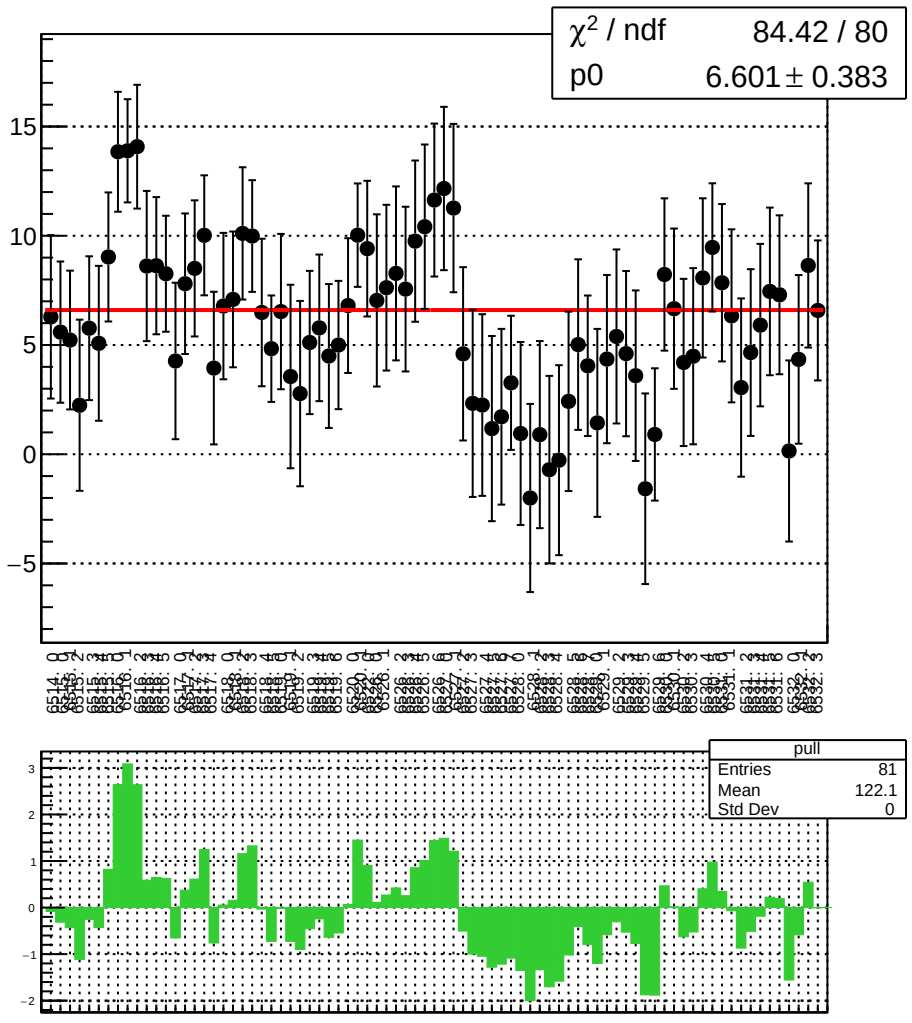

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.97 / 80
p0 −12.18 ± 0.3678
pull
Entries 81
Mean 253.6
Std Dev 0

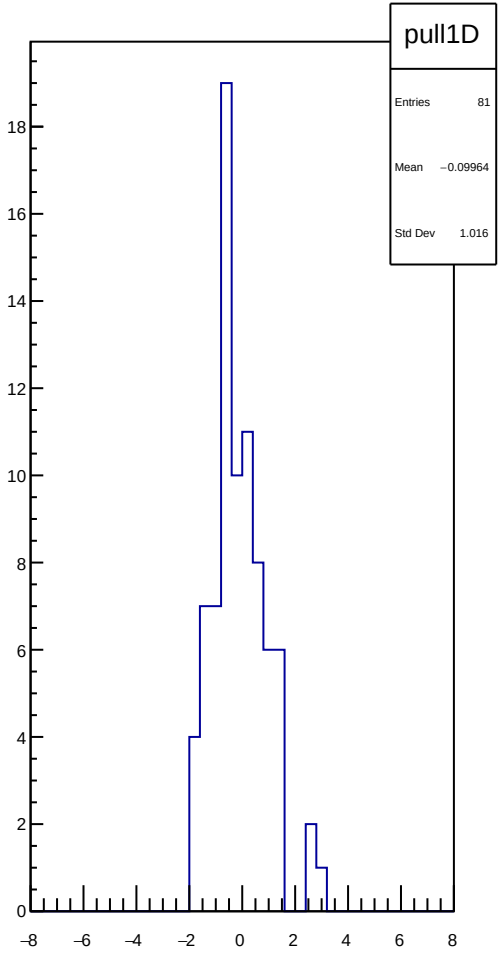

pull1D
Entries 81
Mean −0.01548
Std Dev 0.4296

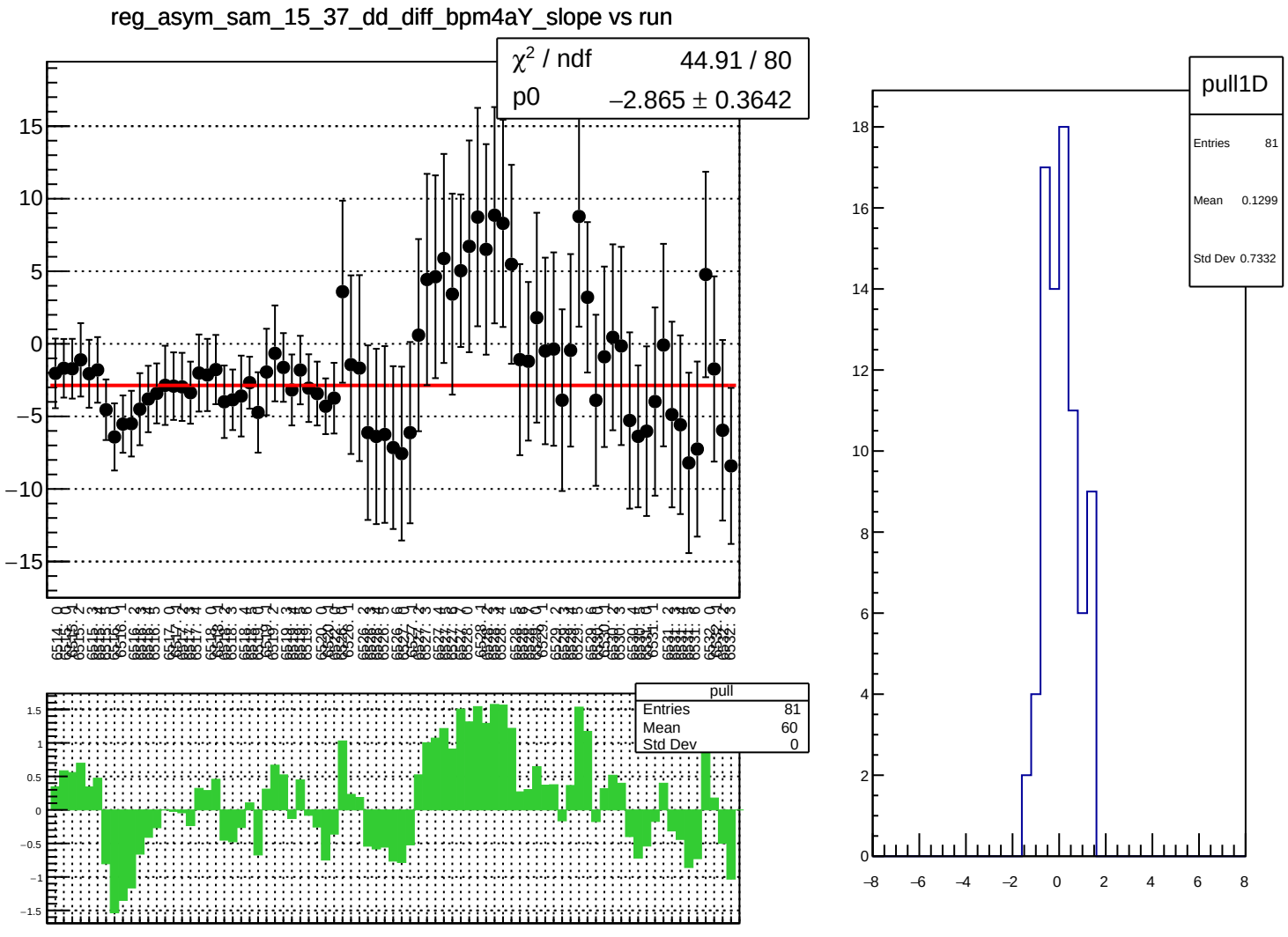

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 60.24 / 80
p0 −8.763 ± 0.4067
pull
Entries 81
Mean 111.7
Std Dev 0
pull1D
Entries 81
Mean 0.2143
Std Dev 0.8353

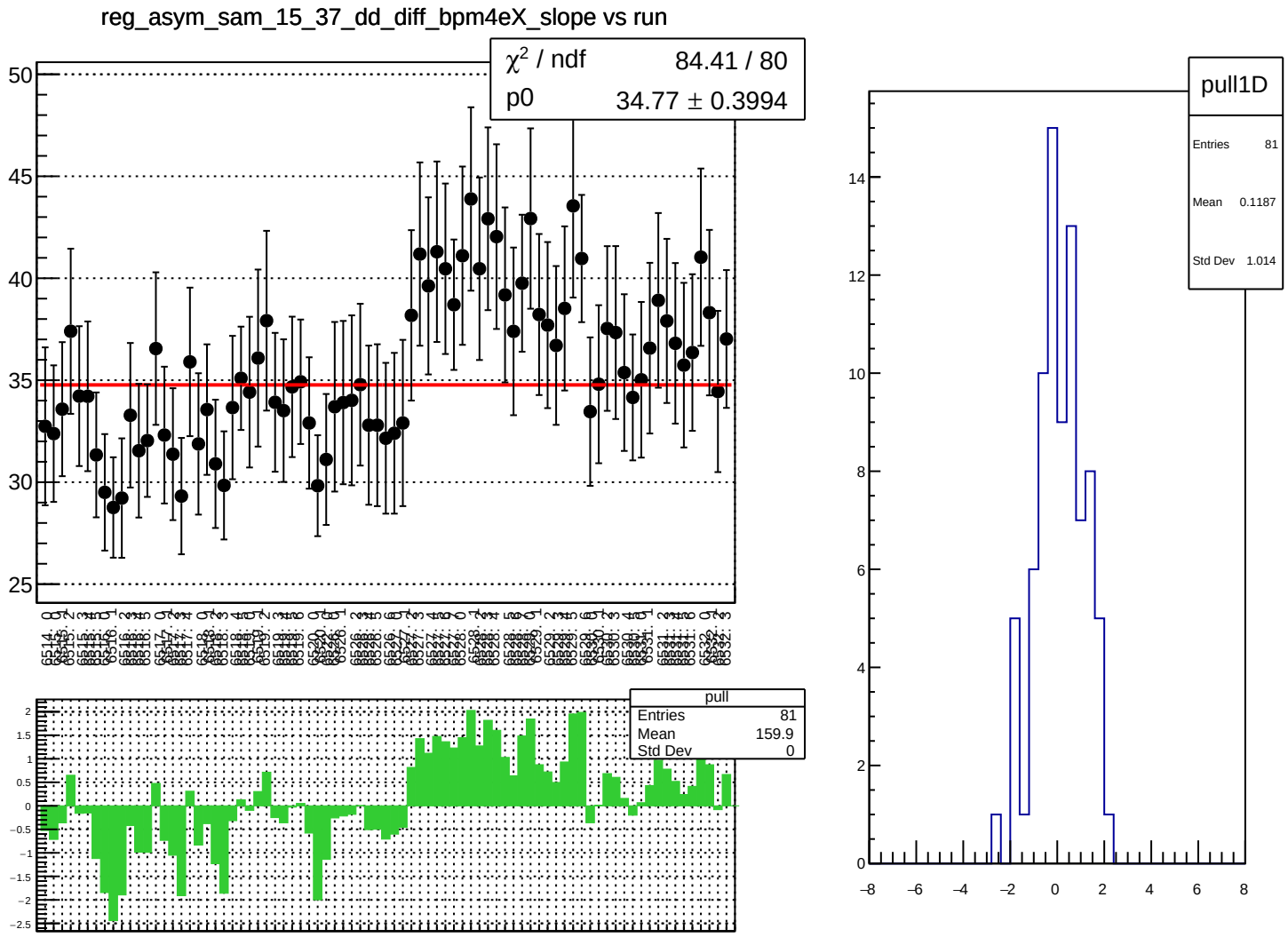

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 10.81 / 80
p0 0.1139 ± 0.01456
pull
Entries 81
Mean −345
Std Dev 0

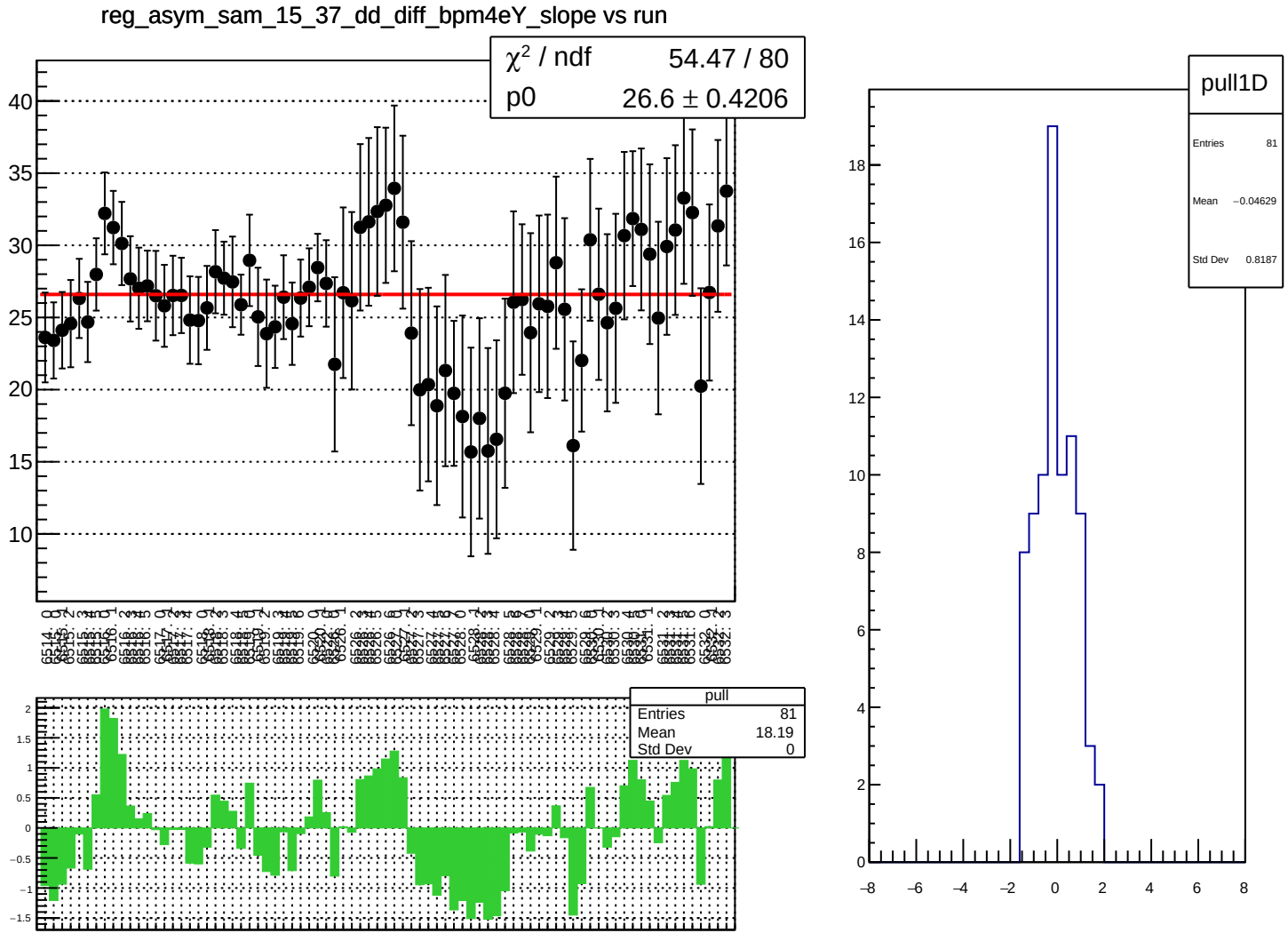

pull1D
Entries 81
Mean 0.007108
Std Dev 0.3653

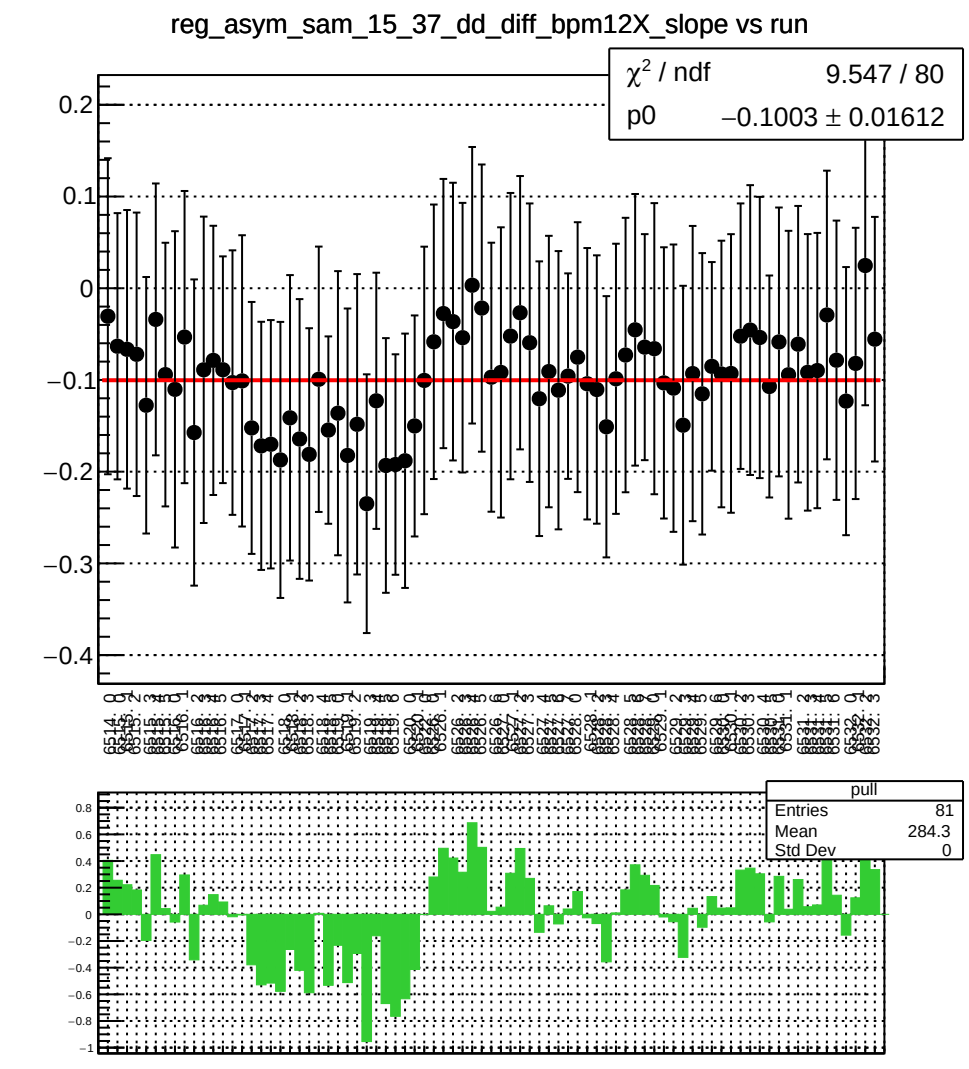

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 84.42 / 80
p0 6.601 ± 0.383
pull
Entries 81
Mean 122.1
Std Dev 0

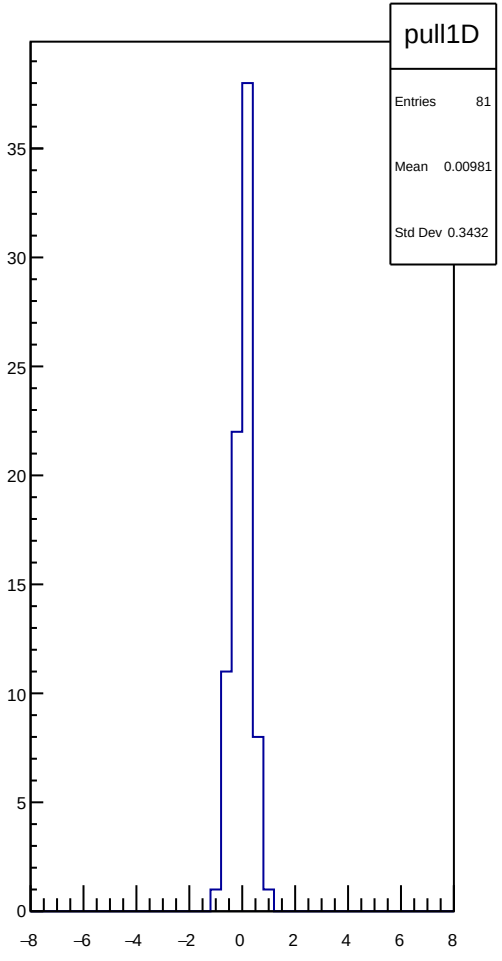

pull1D
Entries 81
Mean −0.09964
Std Dev 1.016

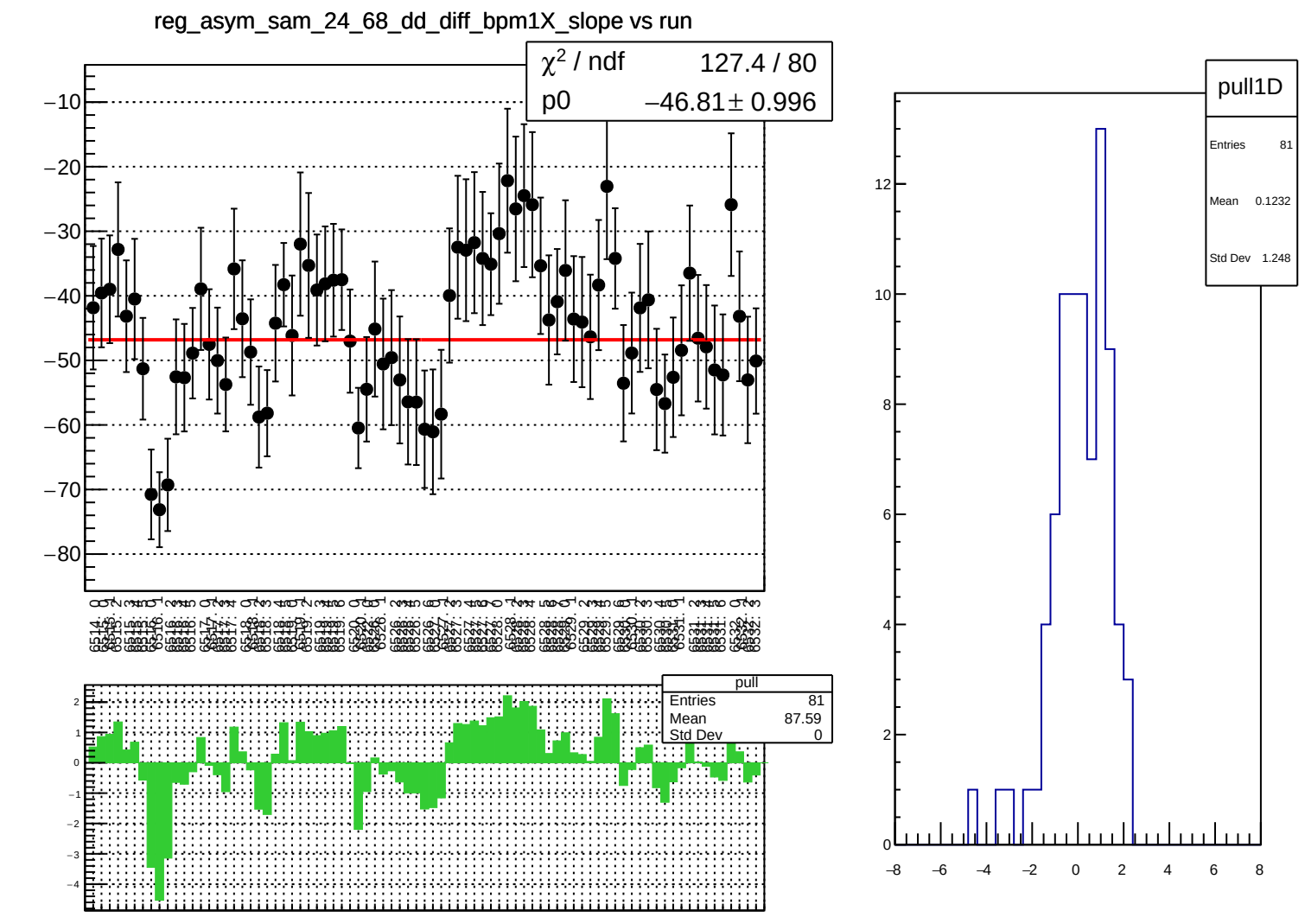

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 44.91 / 80
p0 −2.865 ± 0.3642
pull
Entries 81
Mean 60
Std Dev 0
pull1D
Entries 81
Mean 0.1299
Std Dev 0.7332

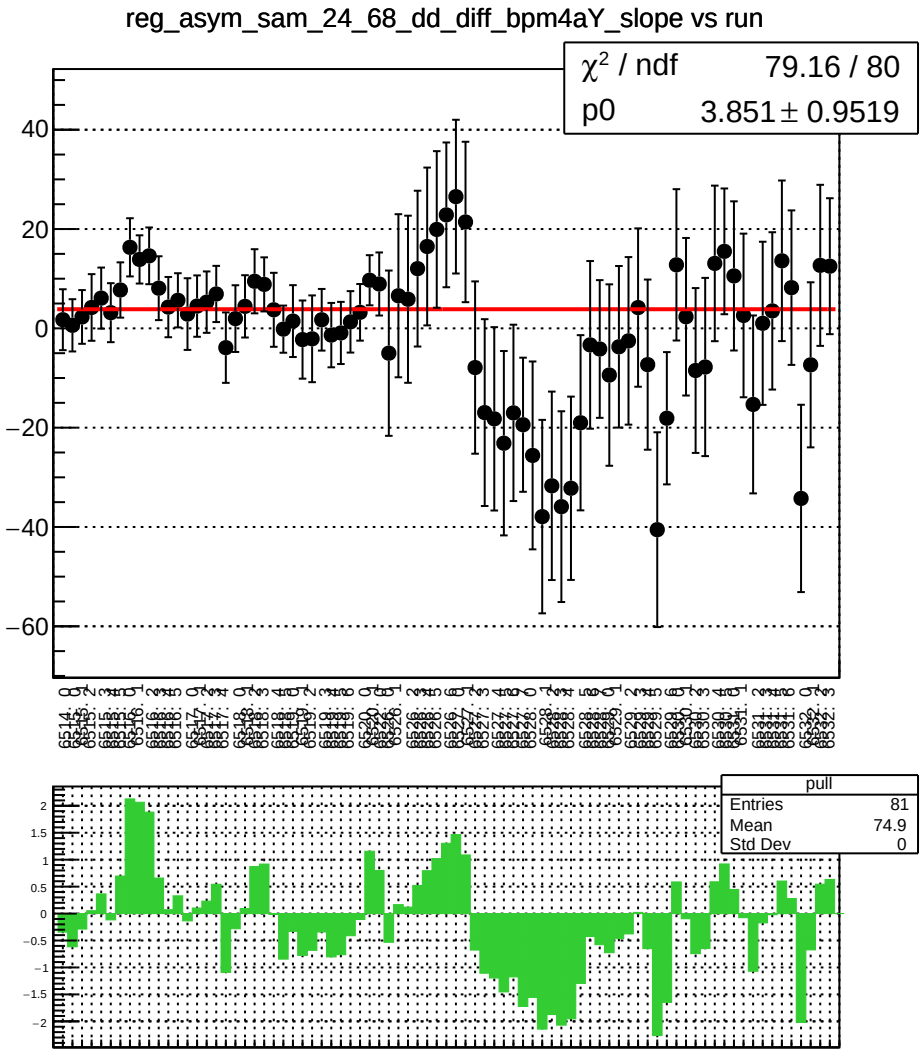

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 84.41 / 80
p0 34.77 ± 0.3994
pull
Entries 81
Mean 159.9
Std Dev 0
pull1D
Entries 81
Mean 0.1187
Std Dev 1.014

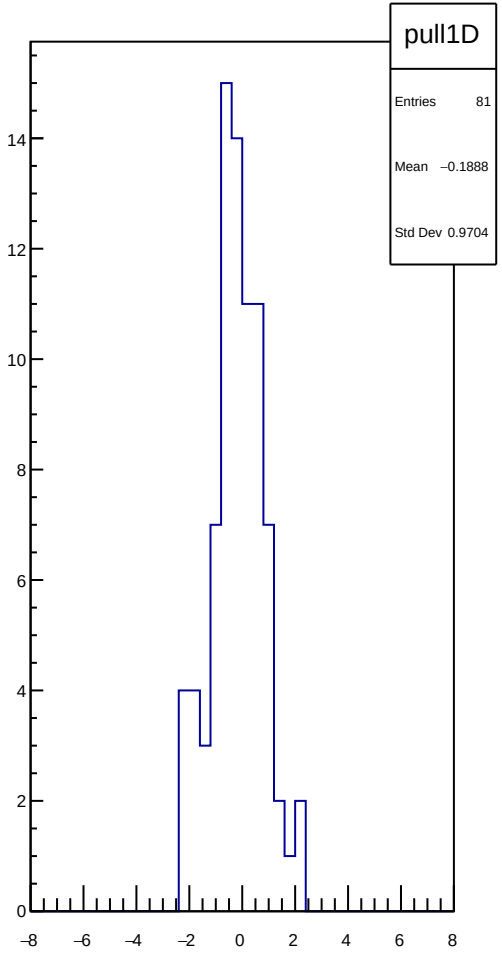

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 54.47 / 80
p0 26.6 ± 0.4206
pull
Entries 81
Mean 18.19
Std Dev 0
pull1D
Entries 81
Mean −0.04629
Std Dev 0.8187

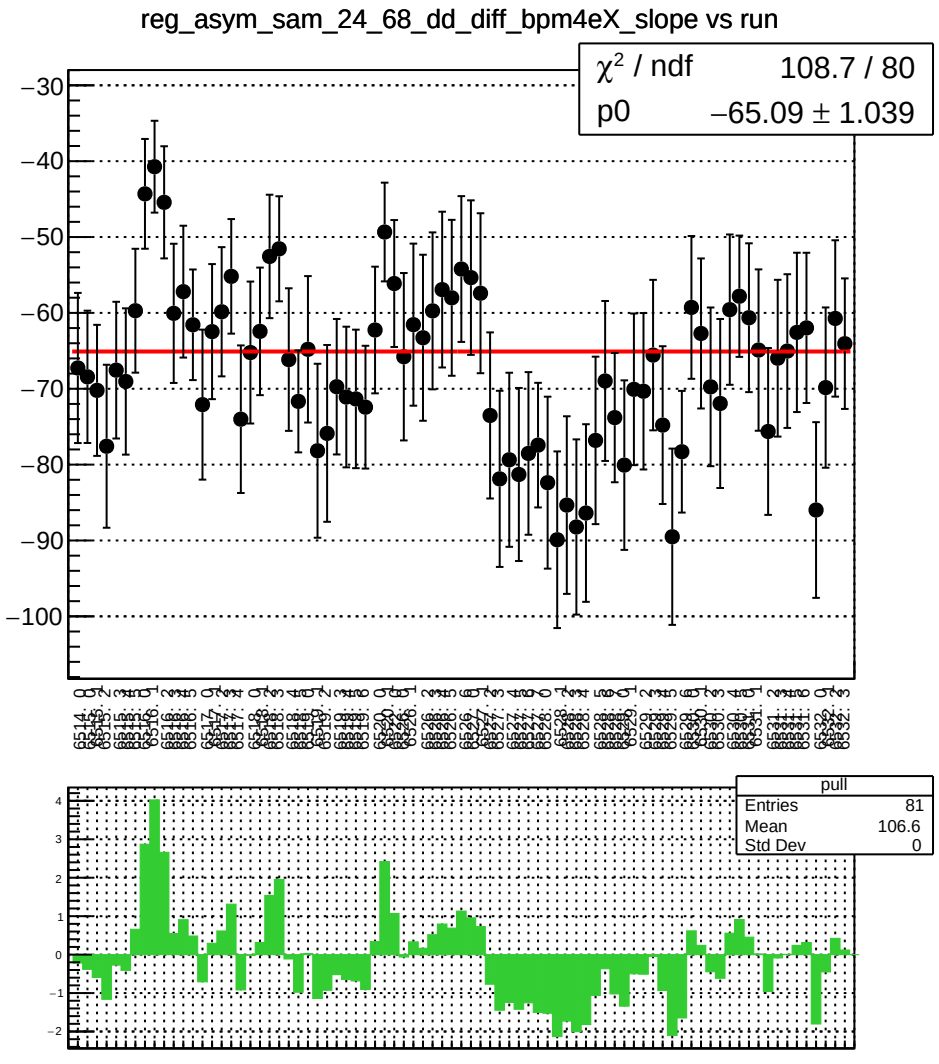

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 9.547 / 80
p0 −0.1003 ± 0.01612
pull
Entries 81
Mean 284.3
Std Dev 0

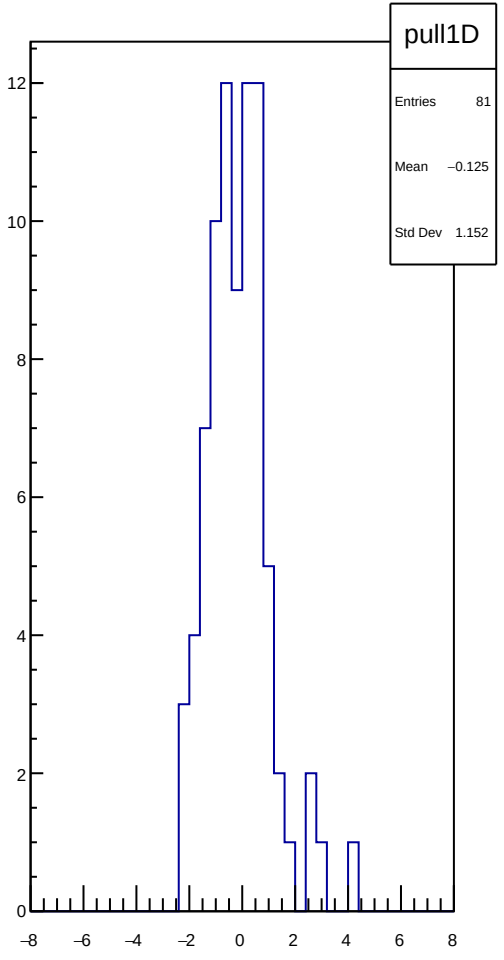

pull1D
Entries 81
Mean 0.00981
Std Dev 0.3432

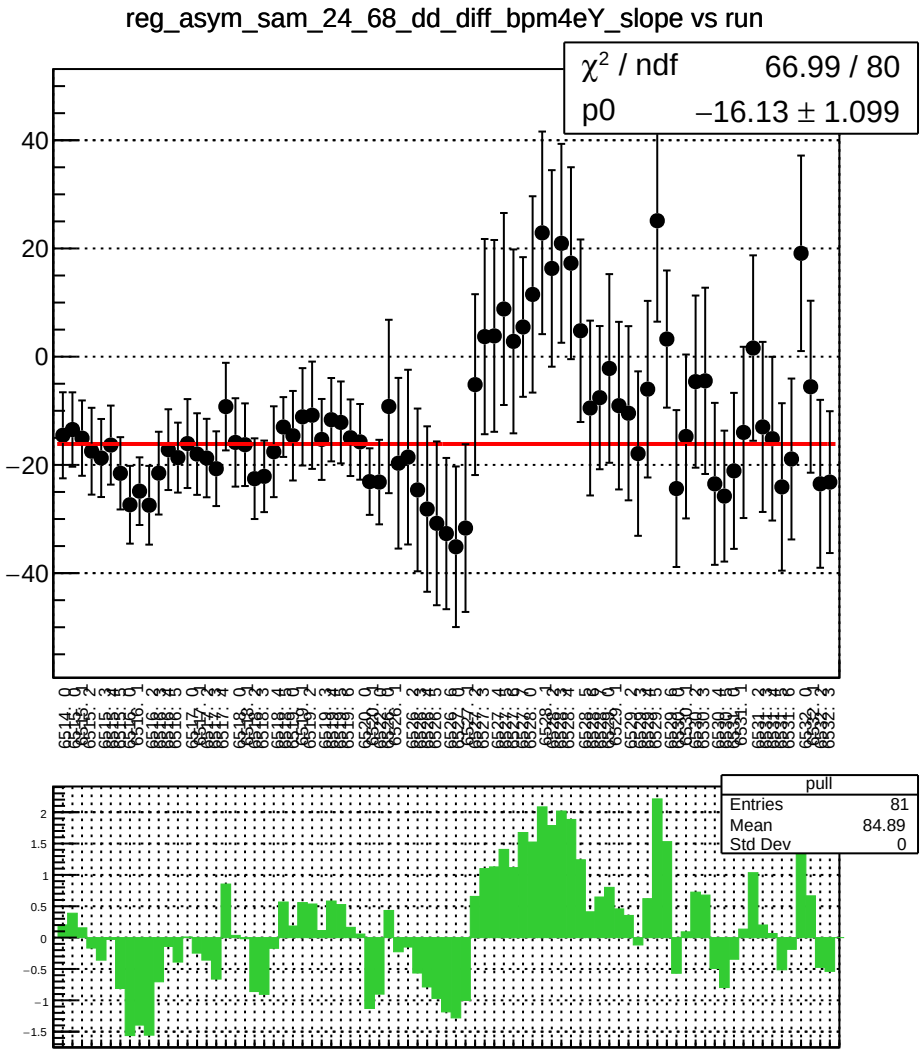

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 127.4 / 80
p0 −46.81 ± 0.996
pull
Entries 81
Mean 87.59
Std Dev 0
pull1D
Entries 81
Mean 0.1232
Std Dev 1.248

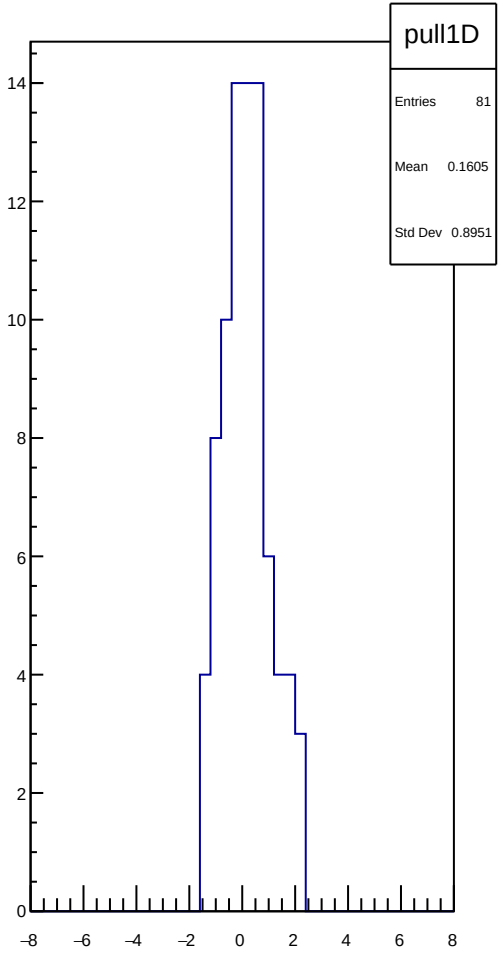

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 79.16 / 80
p0 3.851 ± 0.9519
pull
Entries 81
Mean 74.9
Std Dev 0

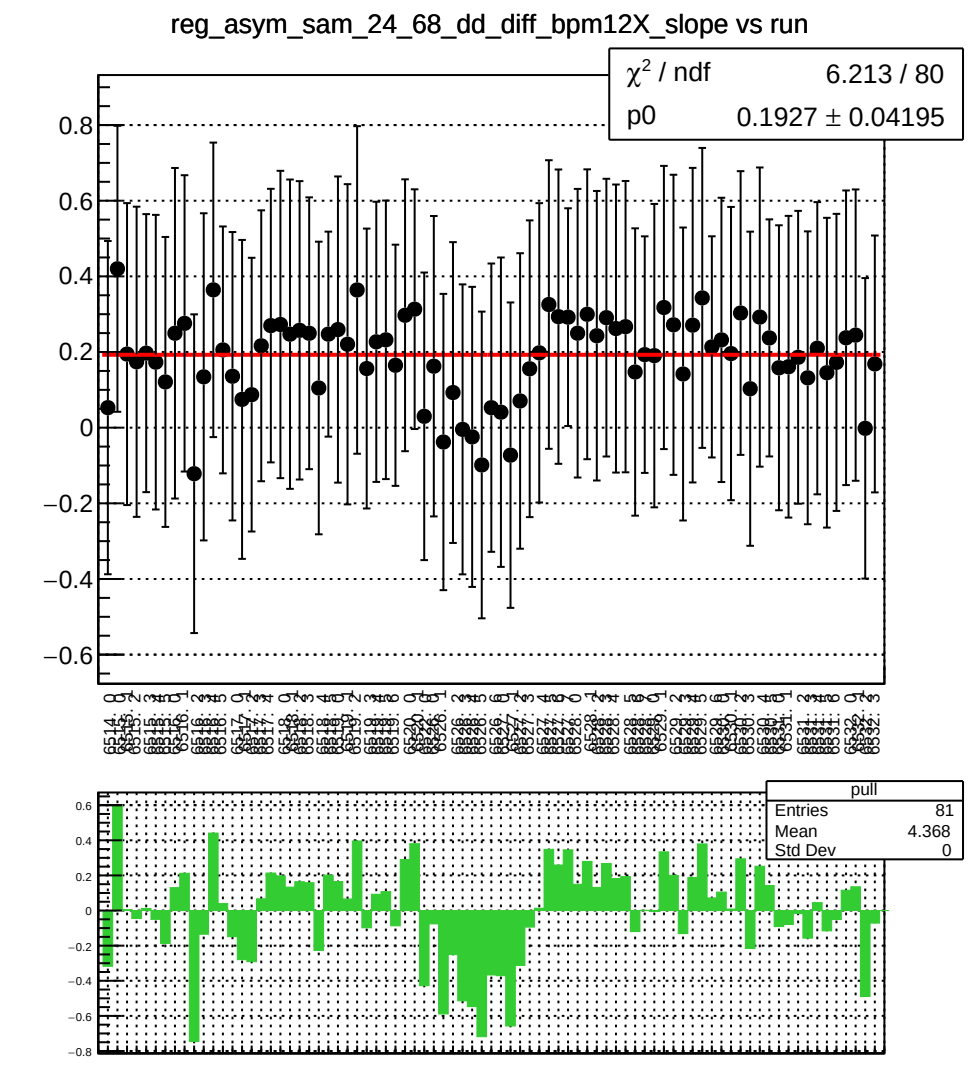

pull1D
Entries 81
Mean −0.1888
Std Dev 0.9704

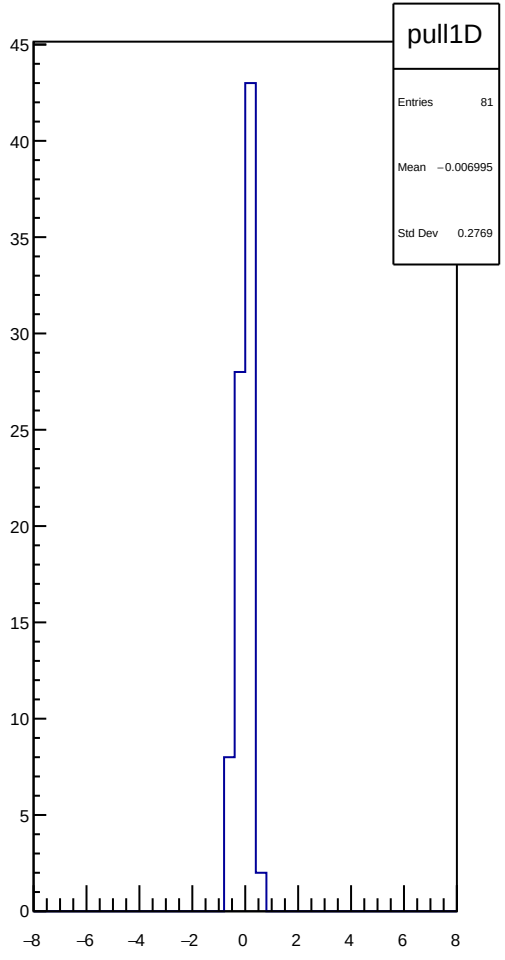

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 108.7 / 80
p0 −65.09 ± 1.039
pull
Entries 81
Mean 106.6
Std Dev 0

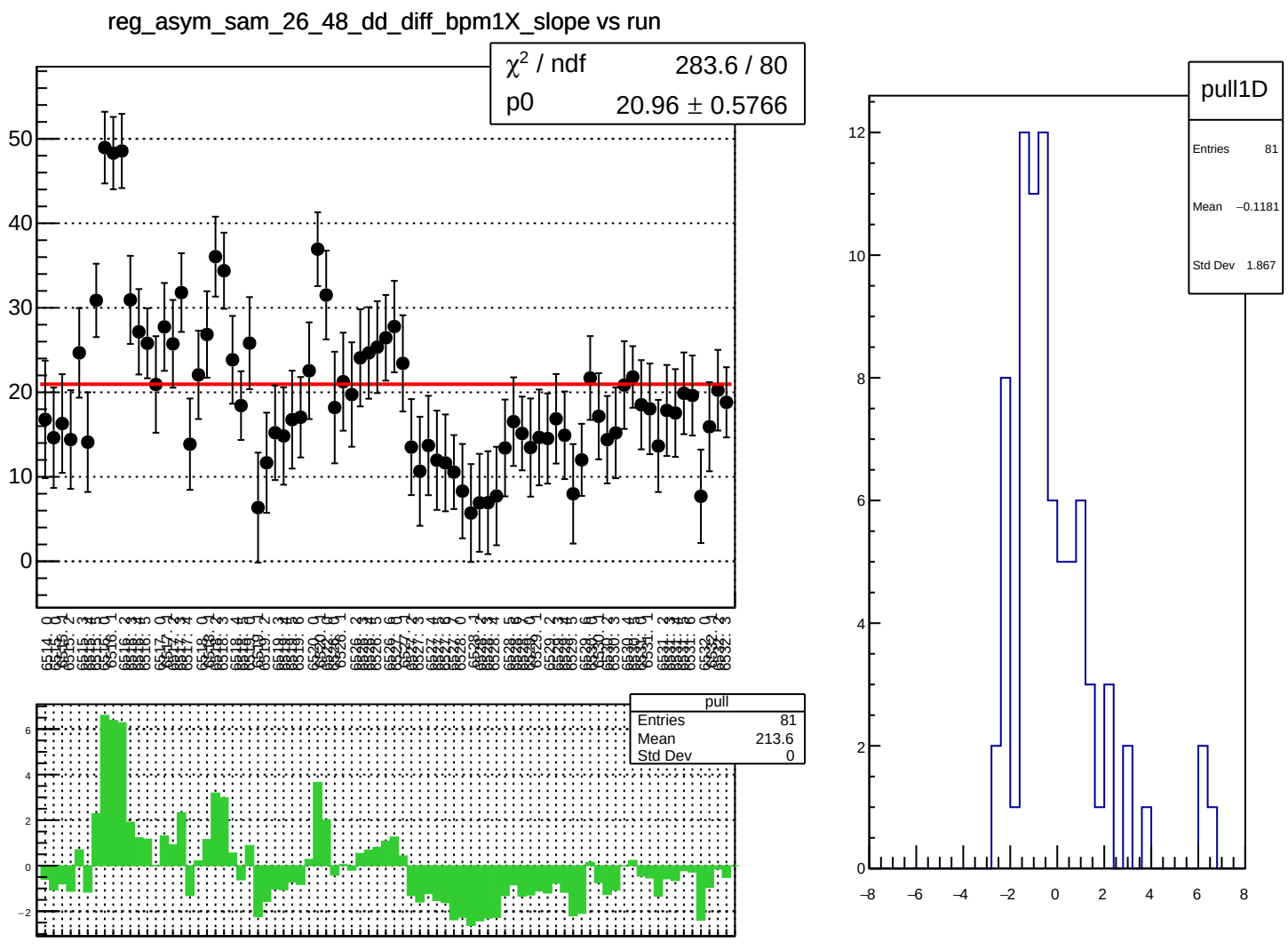

pull1D
Entries 81
Mean −0.125
Std Dev 1.152

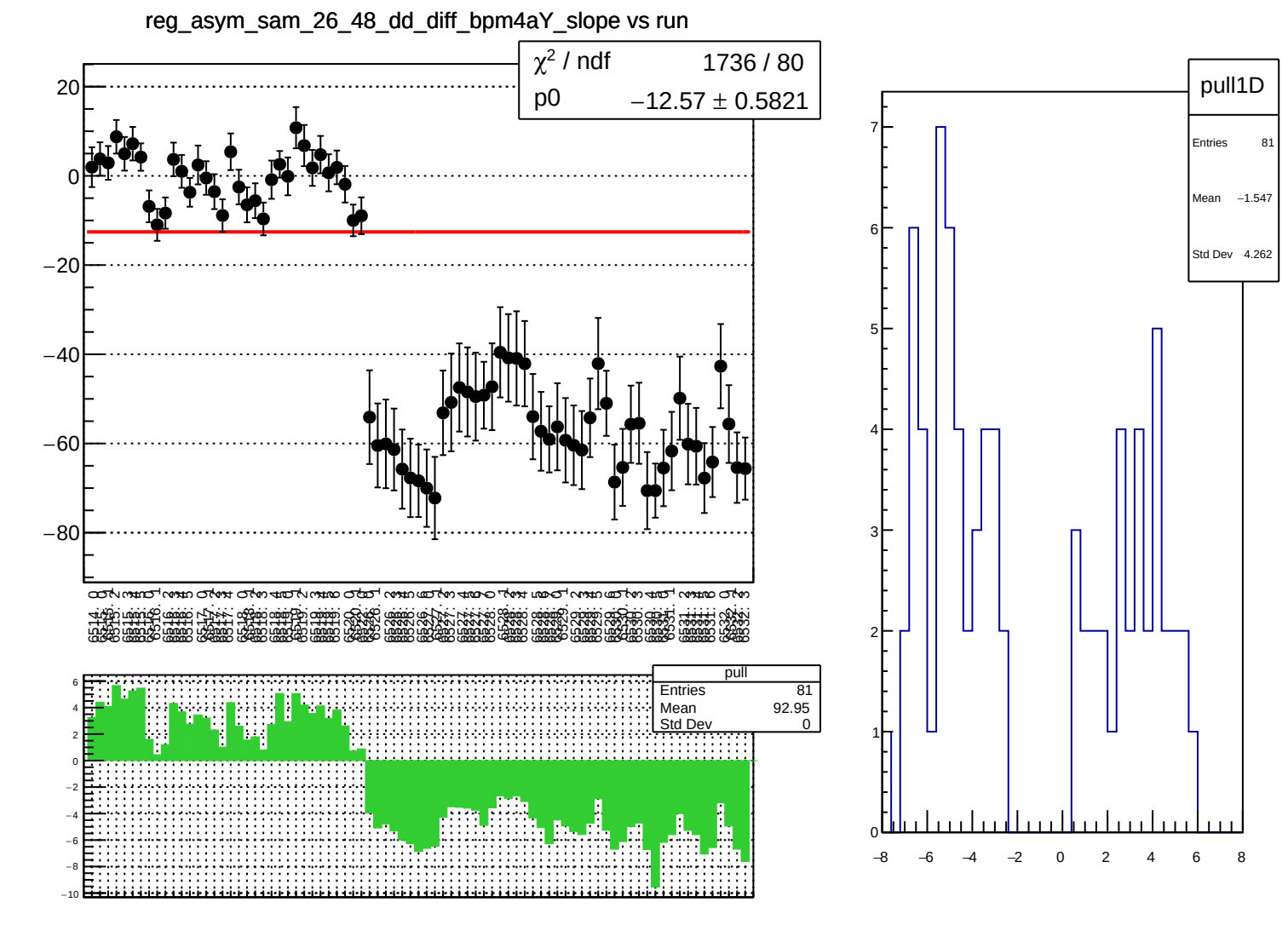

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 66.99 / 80
p0 −16.13 ± 1.099
pull
Entries 81
Mean 84.89
Std Dev 0

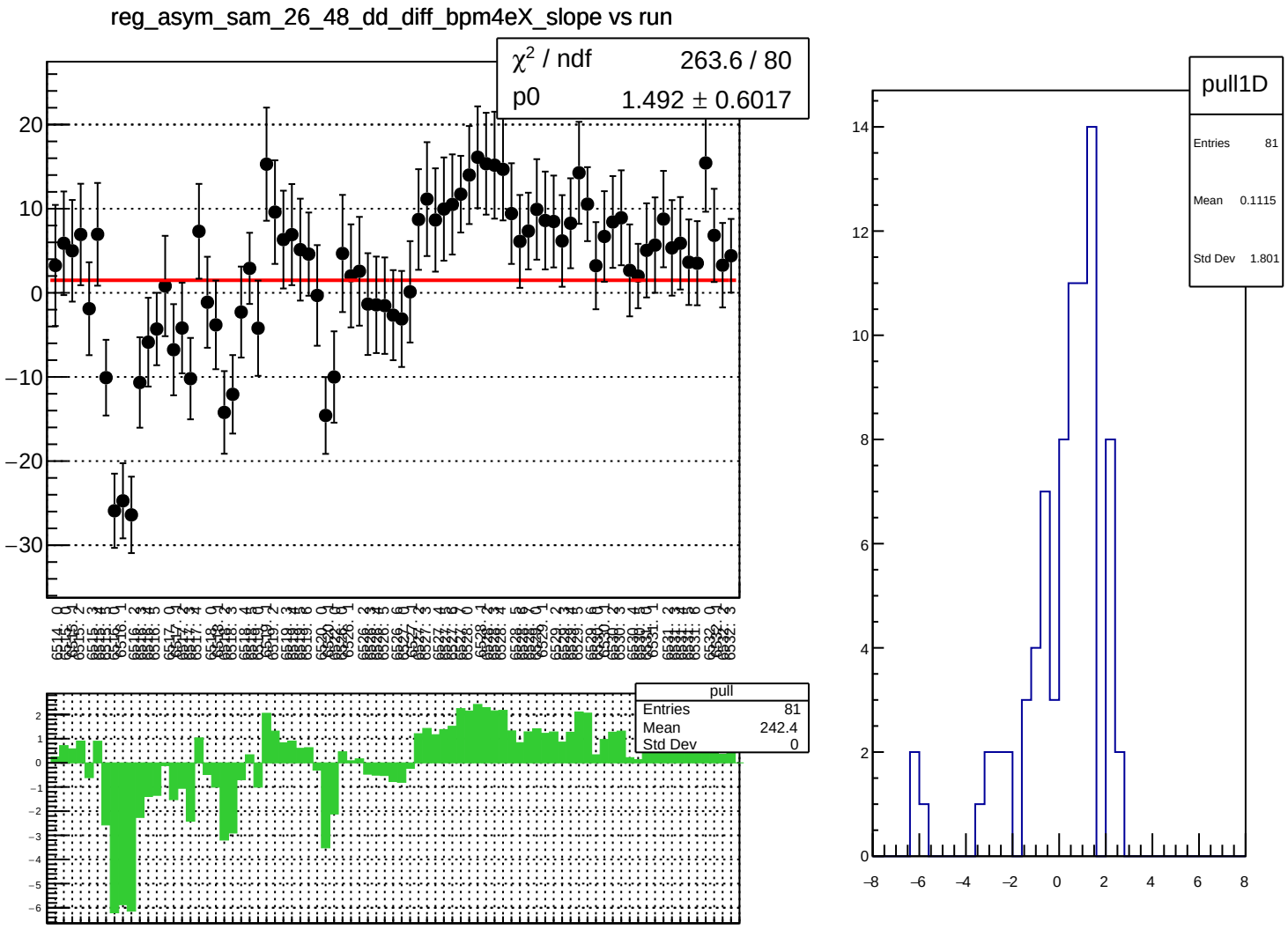

pull1D
Entries 81
Mean 0.1605
Std Dev 0.8951

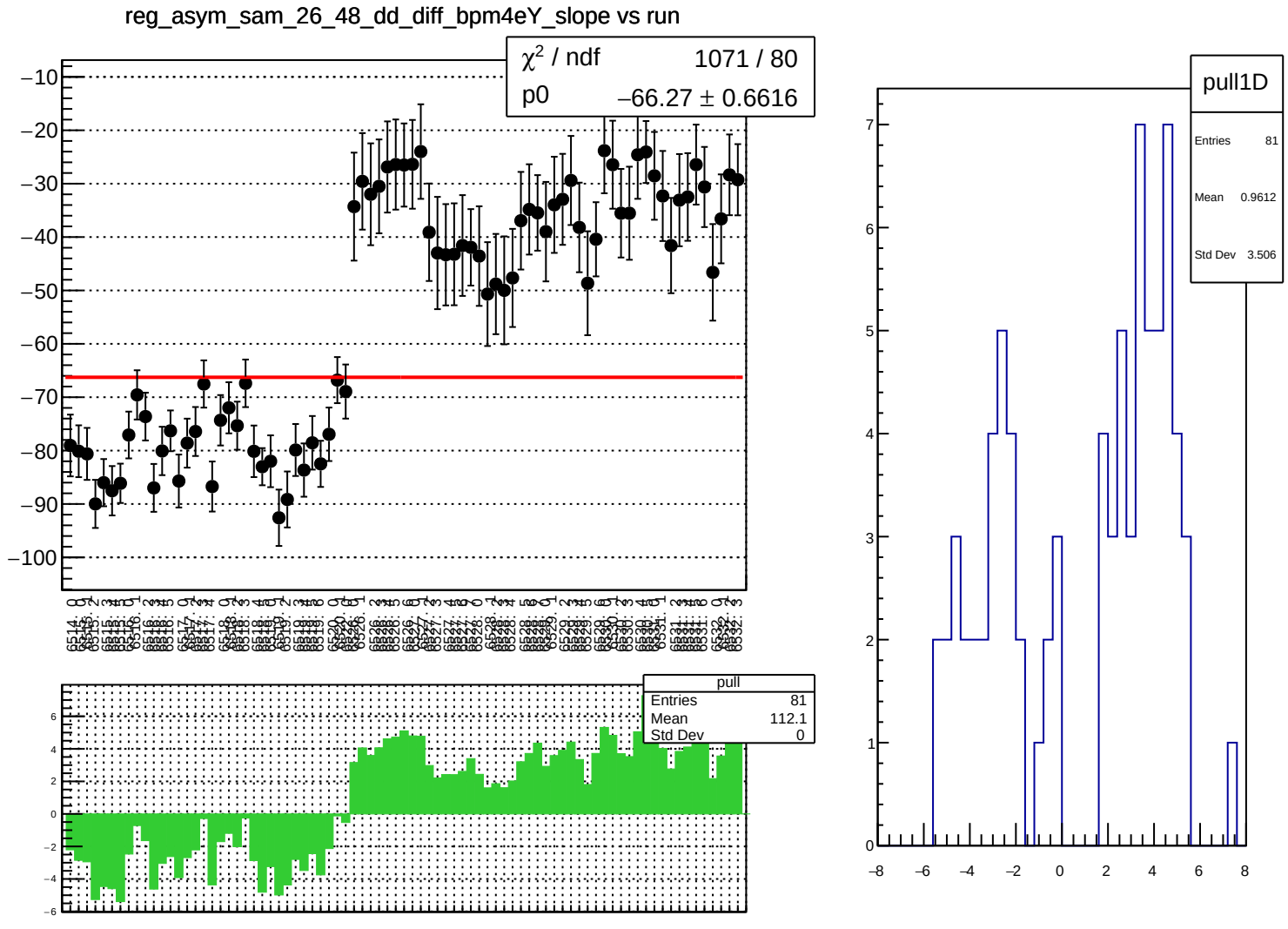

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 6.213 / 80
p0 0.1927 ± 0.04195
pull
Entries 81
Mean 4.368
Std Dev 0

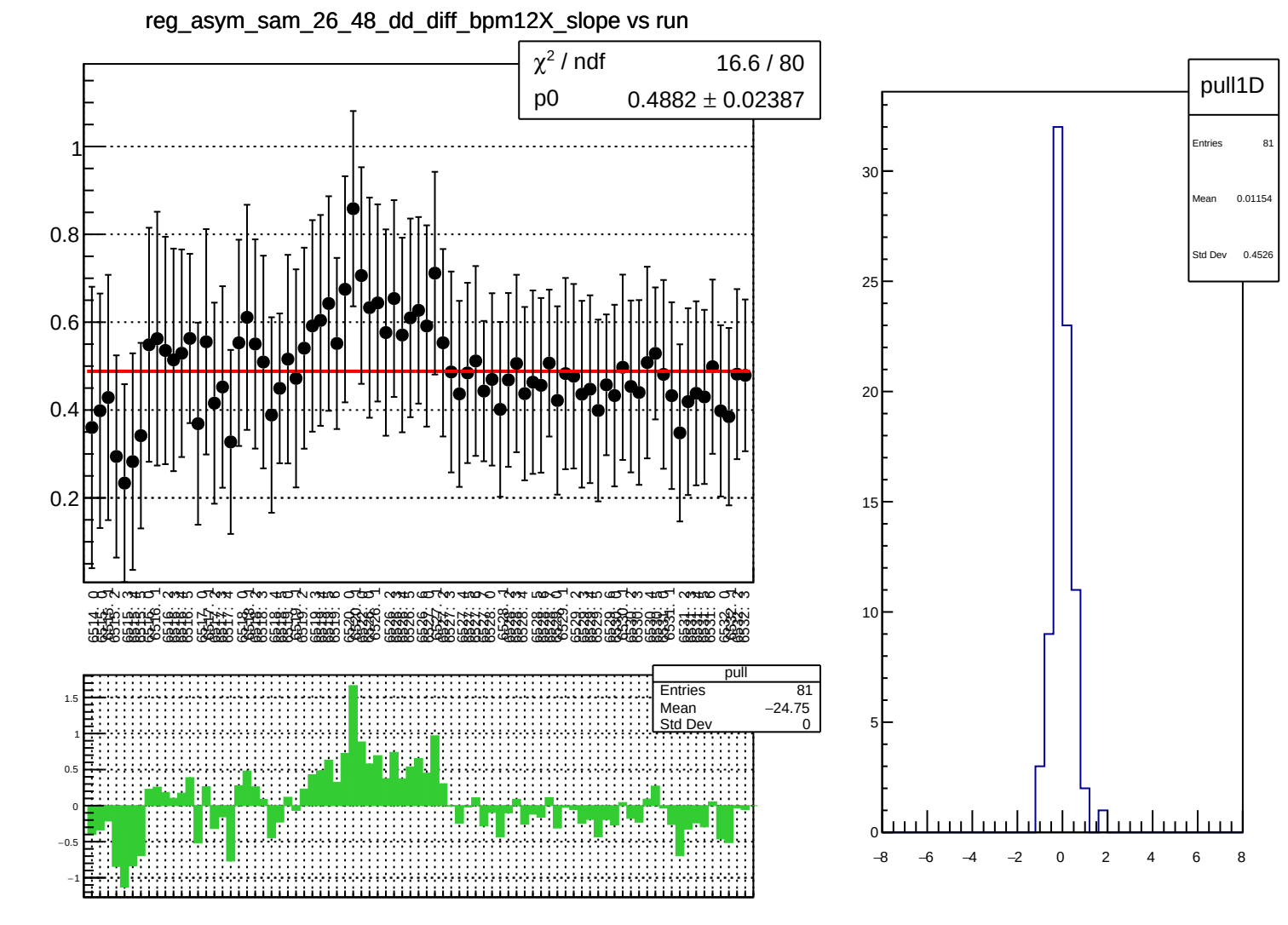

pull1D
Entries 81
Mean −0.006995
Std Dev 0.2769

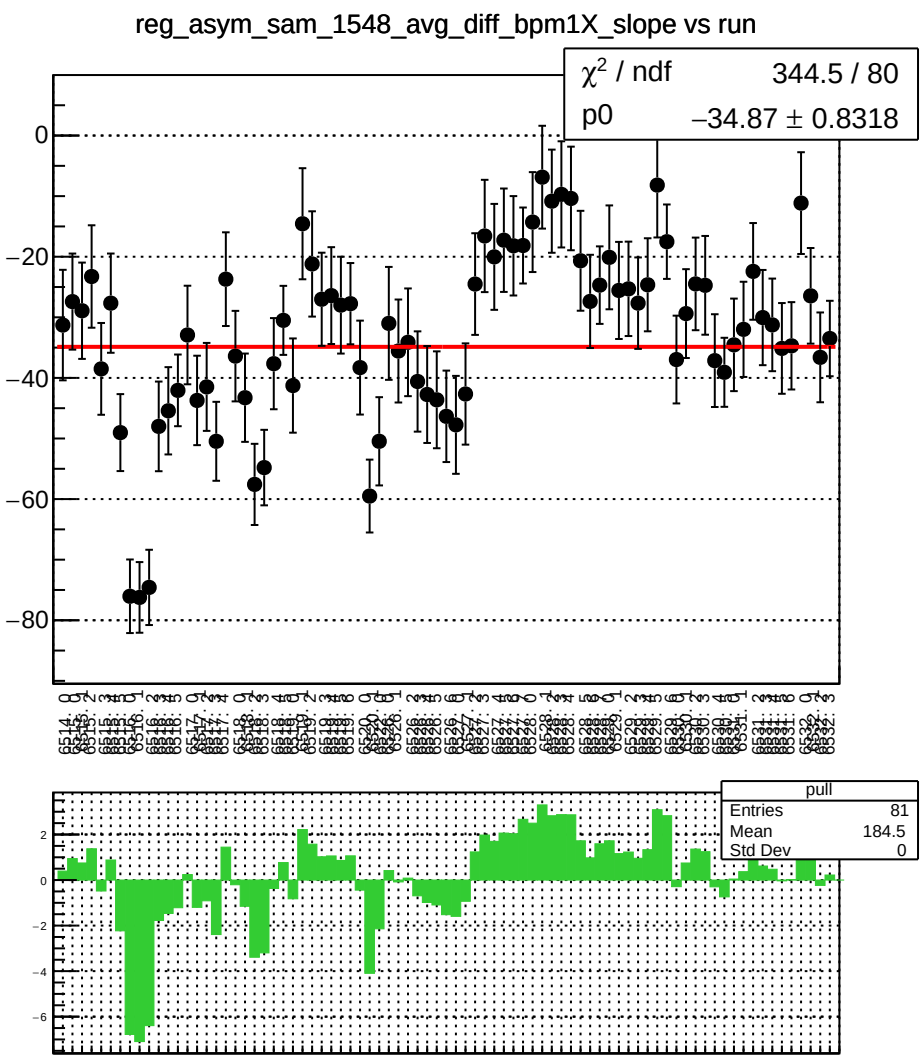

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 283.6 / 80
p0 20.96 ± 0.5766
pull
Entries 81
Mean 213.6
Std Dev 0
pull1D
Entries 81
Mean −0.1181
Std Dev 1.867

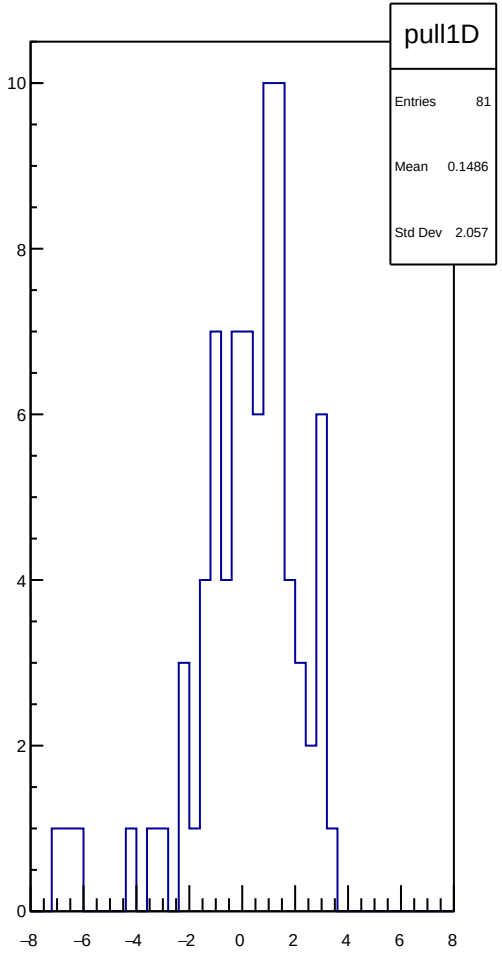

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 1736 / 80
p0 −12.57 ± 0.5821
pull
Entries 81
Mean 92.95
Std Dev 0
pull1D
Entries 81
Mean −1.547
Std Dev 4.262

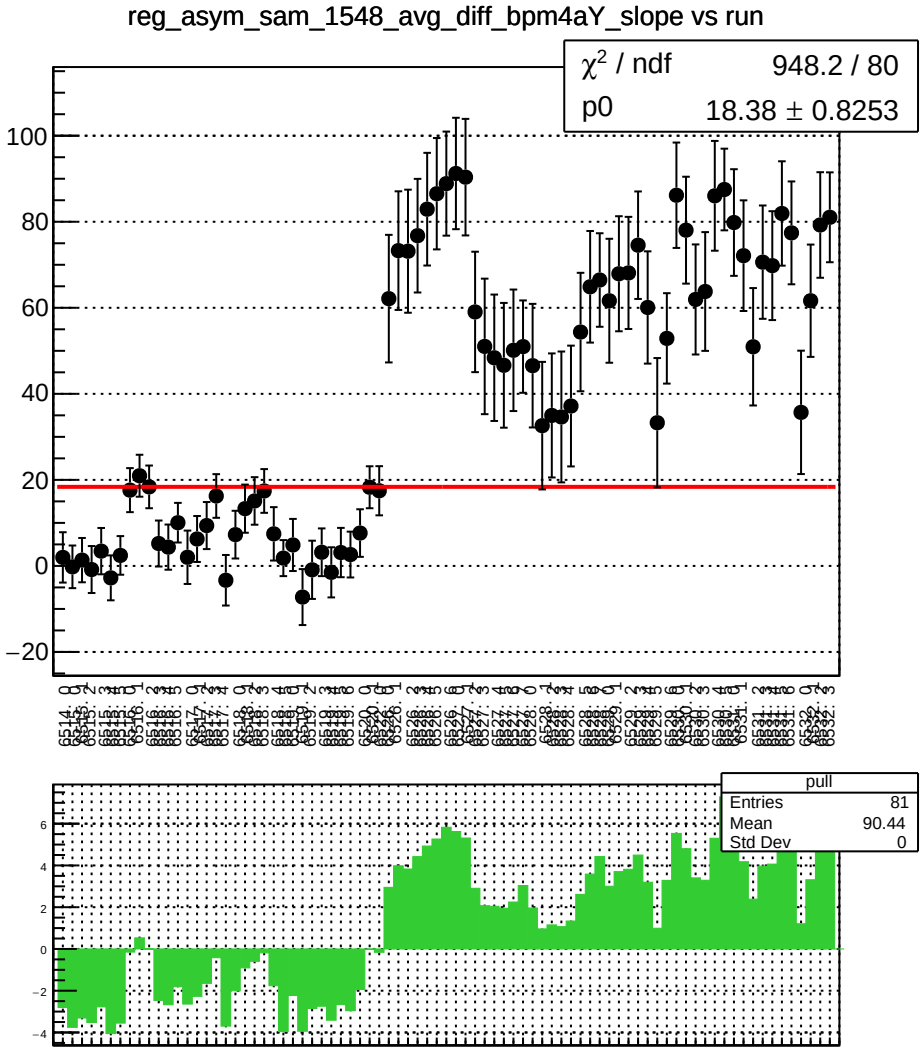

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 263.6 / 80
p0 1.492 ± 0.6017
pull
Entries 81
Mean 242.4
Std Dev 0
pull1D
Entries 81
Mean 0.1115
Std Dev 1.801

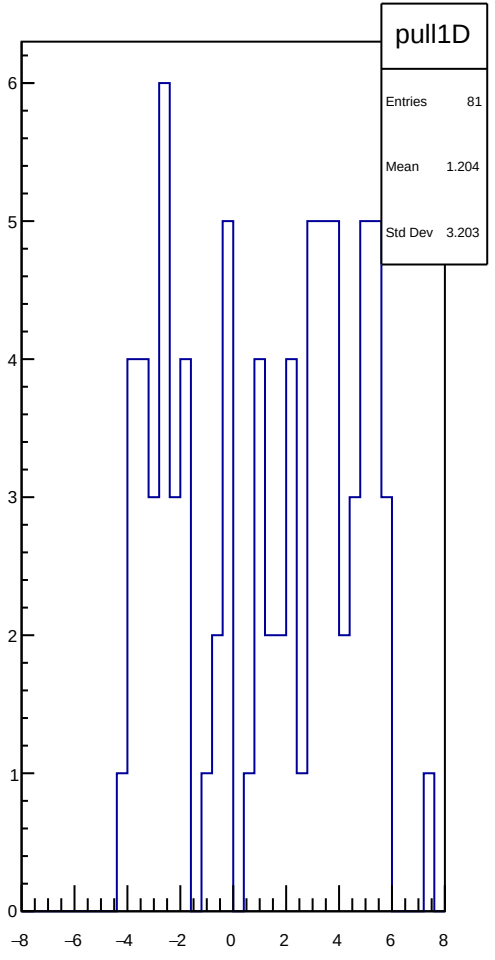

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 1071 / 80
p0 −66.27 ± 0.6616
pull
Entries 81
Mean 112.1
Std Dev 0
pull1D
Entries 81
Mean 0.9612
Std Dev 3.506

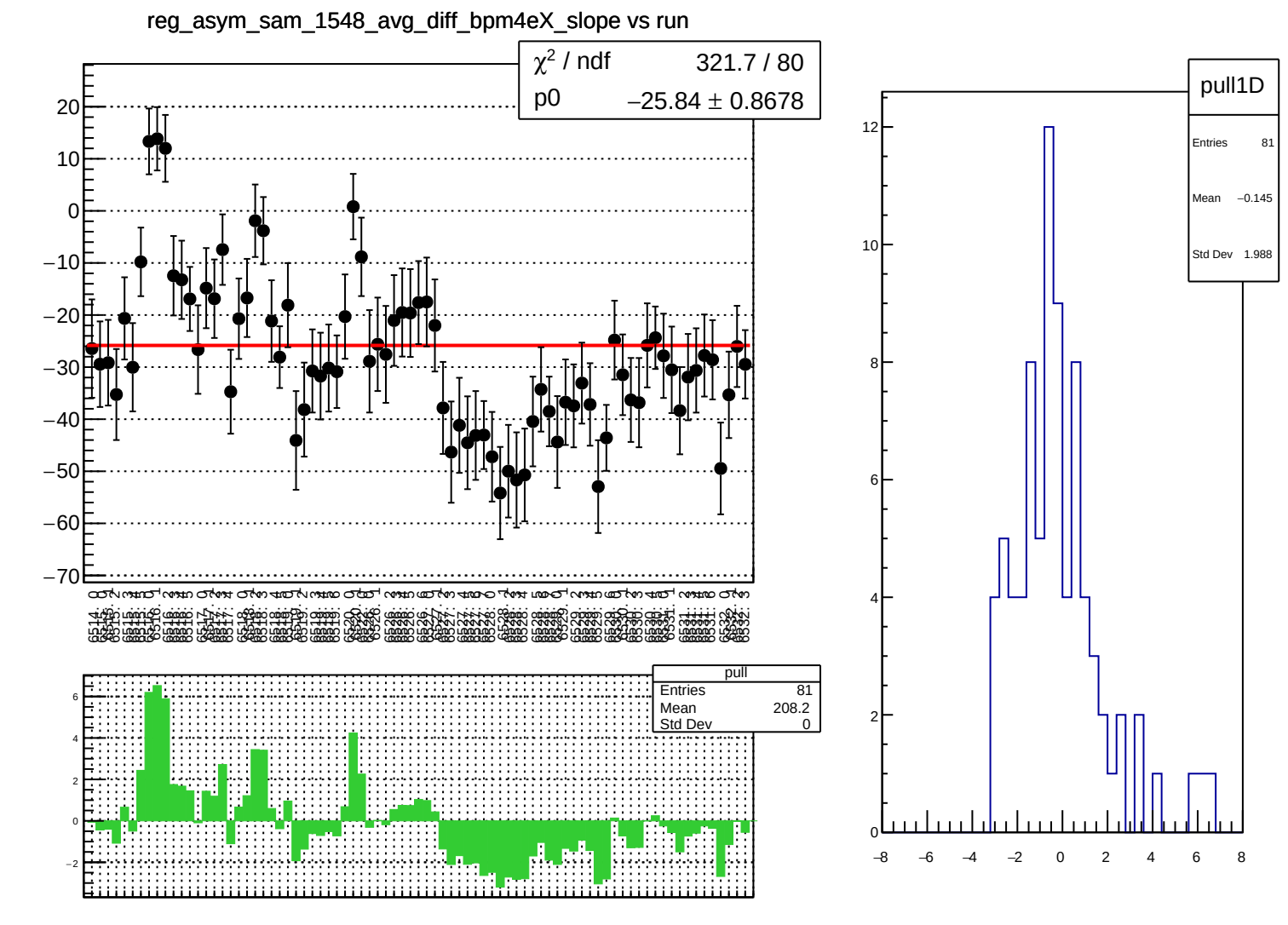

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 16.6 / 80
p0 0.4882 ± 0.02387
pull
Entries 81
Mean −24.75
Std Dev 0
pull1D
Entries 81
Mean 0.01154
Std Dev 0.4526

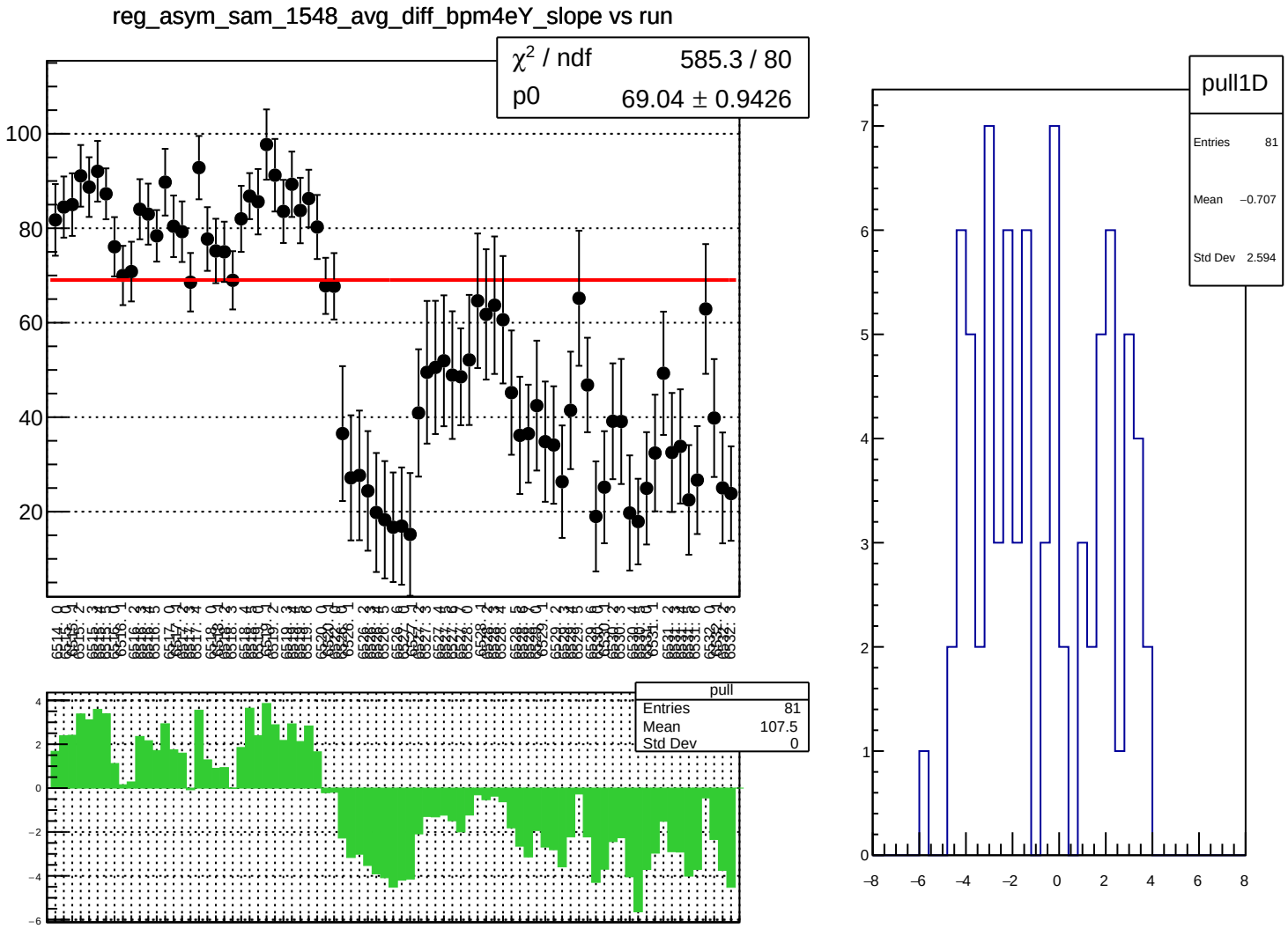

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 344.5 / 80
p0 −34.87 ± 0.8318
0
−20
−40
−60
−80
pull
Entries 81
Mean 184.5
Std Dev 0
2
0
−2
−4
−6

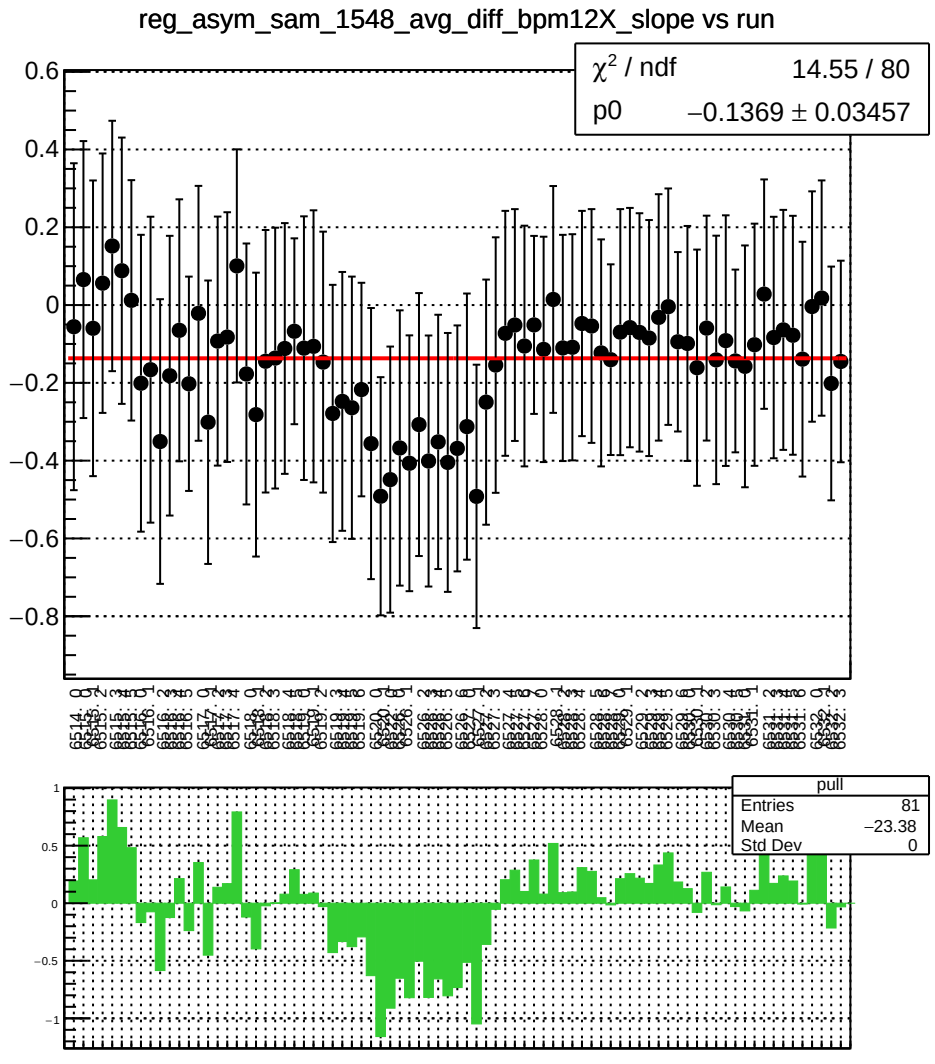

pull1D
Entries 81
Mean 0.1486
Std Dev 2.057
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

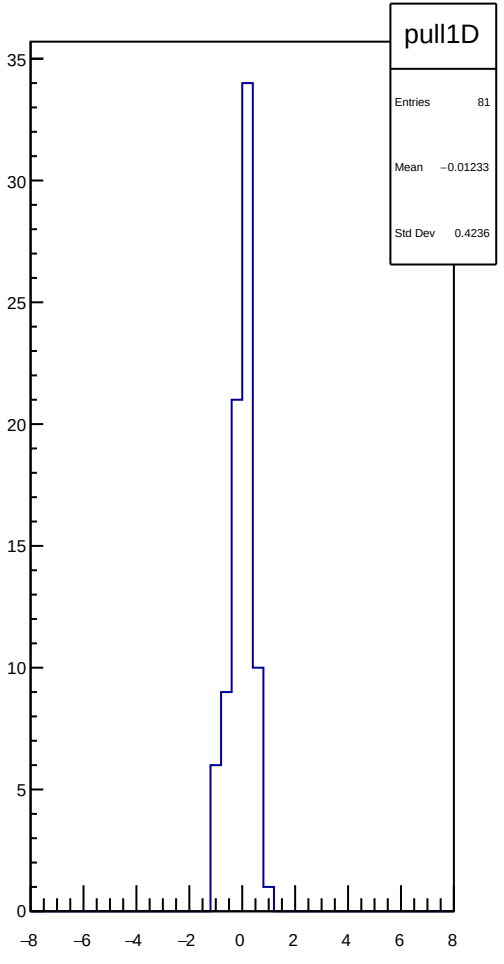

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 948.2 / 80
p0 18.38 ± 0.8253
pull
Entries 81
Mean 90.44
Std Dev 0

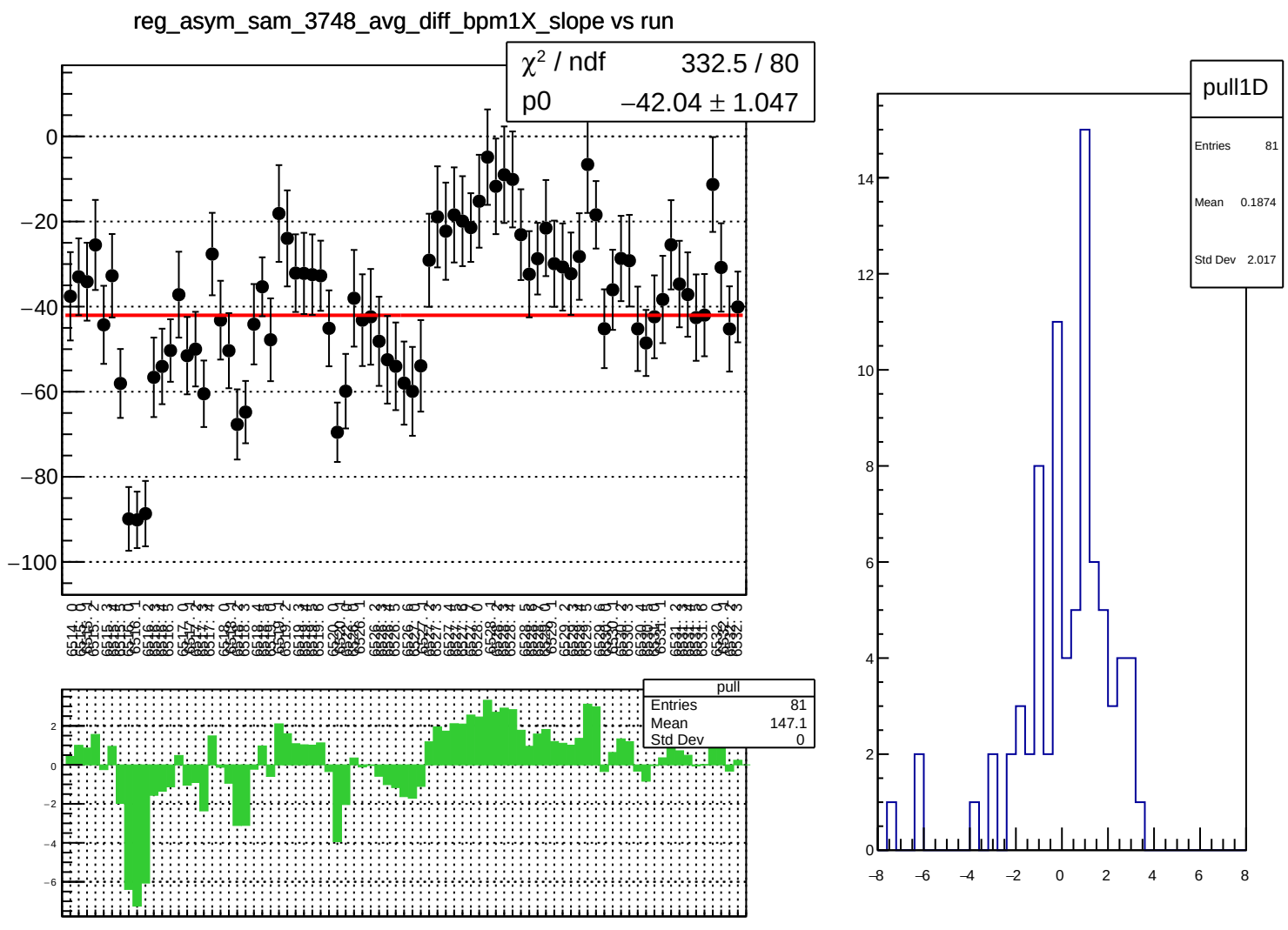

pull1D
Entries 81
Mean 1.204
Std Dev 3.203

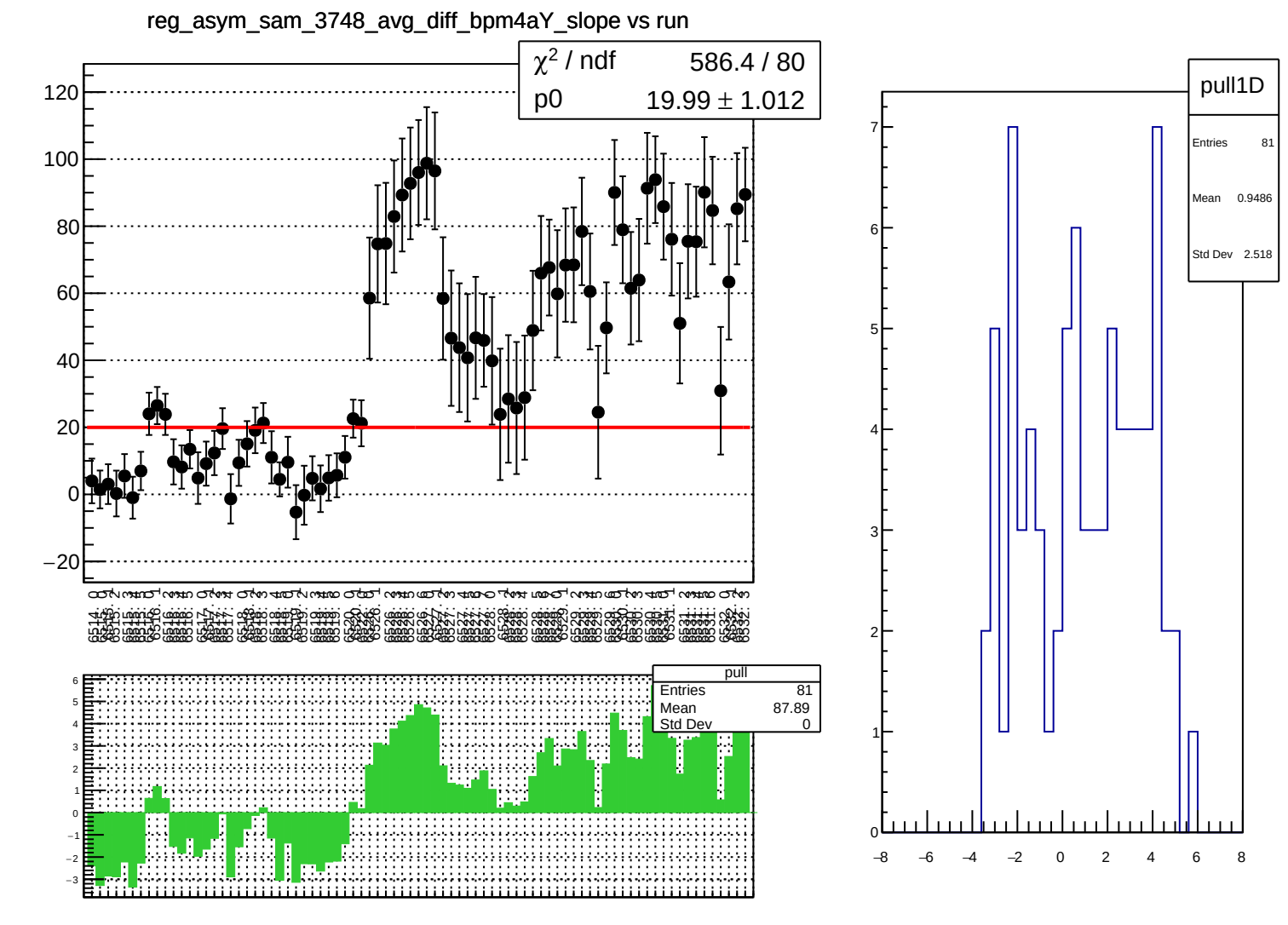

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 321.7 / 80
p0 −25.84 ± 0.8678
pull
Entries 81
Mean 208.2
Std Dev 0
pull1D
Entries 81
Mean −0.145
Std Dev 1.988

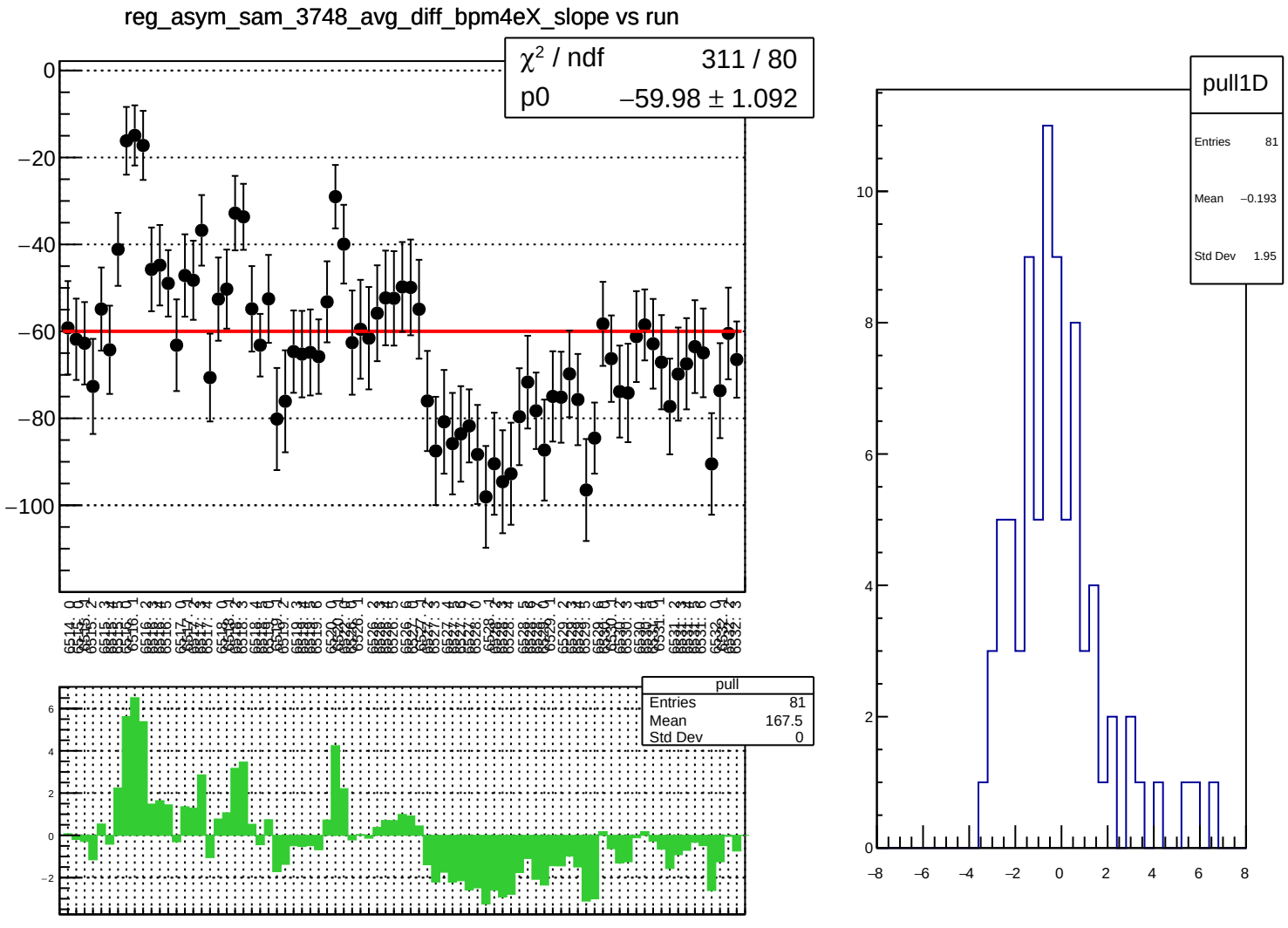

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 585.3 / 80
p0 69.04 ± 0.9426
pull
Entries 81
Mean 107.5
Std Dev 0
pull1D
Entries 81
Mean −0.707
Std Dev 2.594

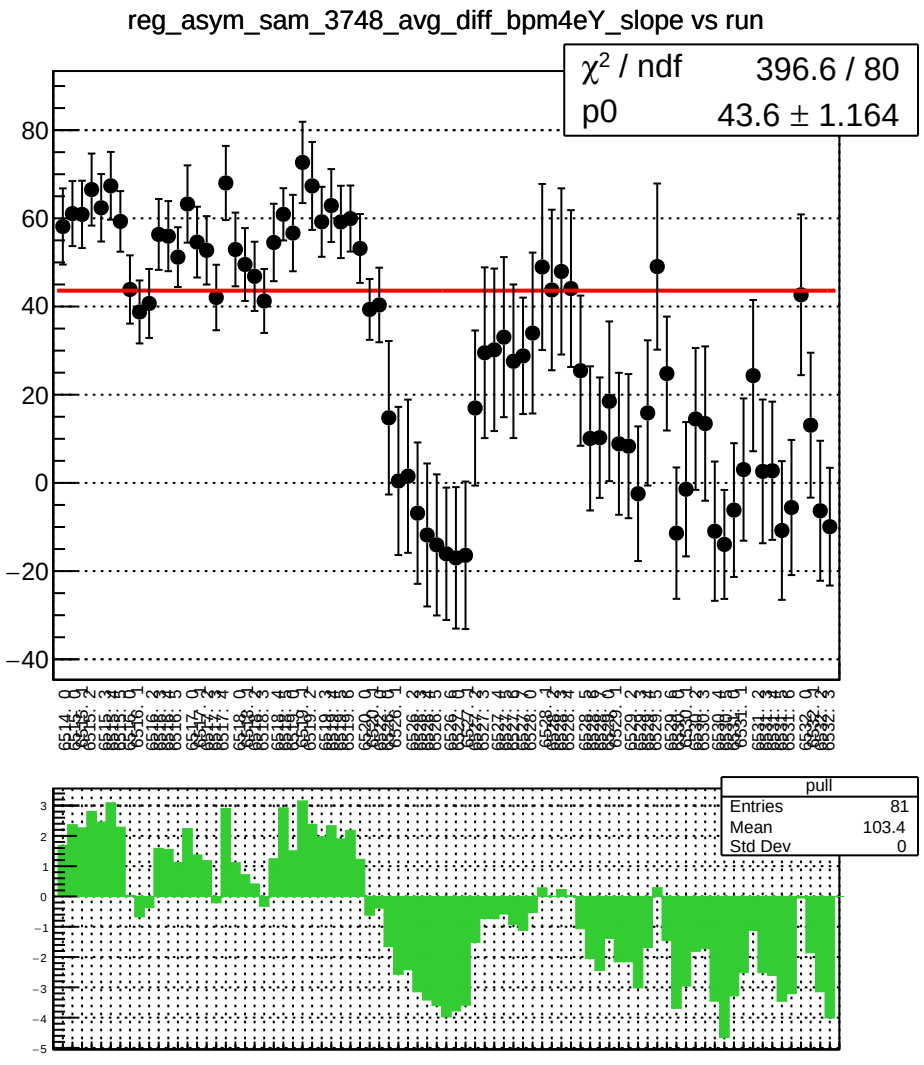

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 14.55 / 80
p0 −0.1369 ± 0.03457
pull
Entries 81
Mean −23.38
Std Dev 0

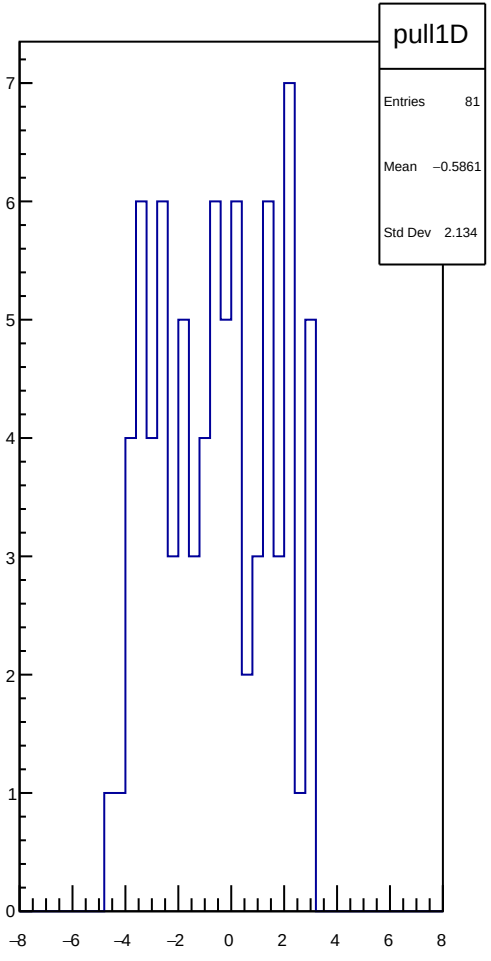

pull1D
Entries 81
Mean −0.01233
Std Dev 0.4236

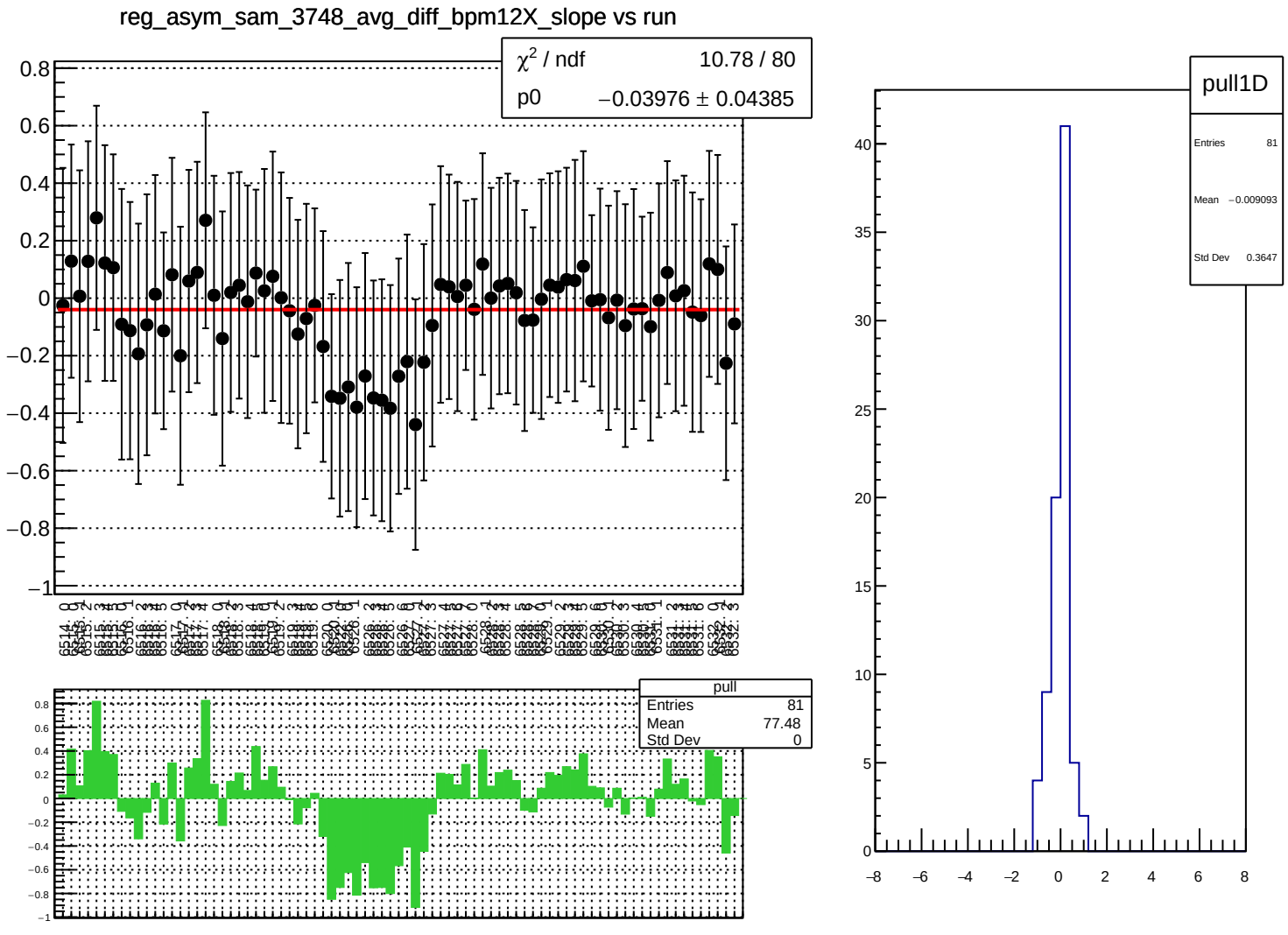

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 332.5 / 80
p0 −42.04 ± 1.047
pull
Entries 81
Mean 147.1
Std Dev 0
pull1D
Entries 81
Mean 0.1874
Std Dev 2.017

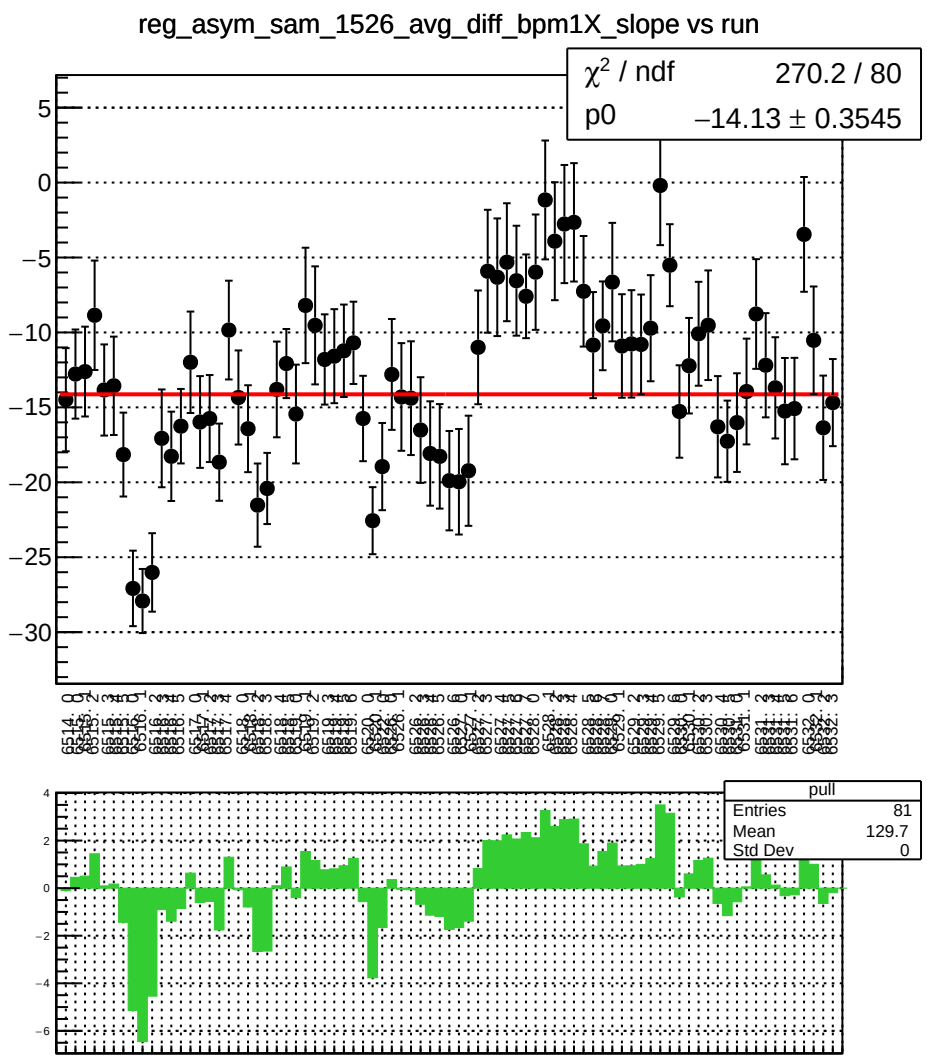

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 586.4 / 80
p0 19.99 ± 1.012
pull
Entries 81
Mean 87.89
Std Dev 0
pull1D
Entries 81
Mean 0.9486
Std Dev 2.518

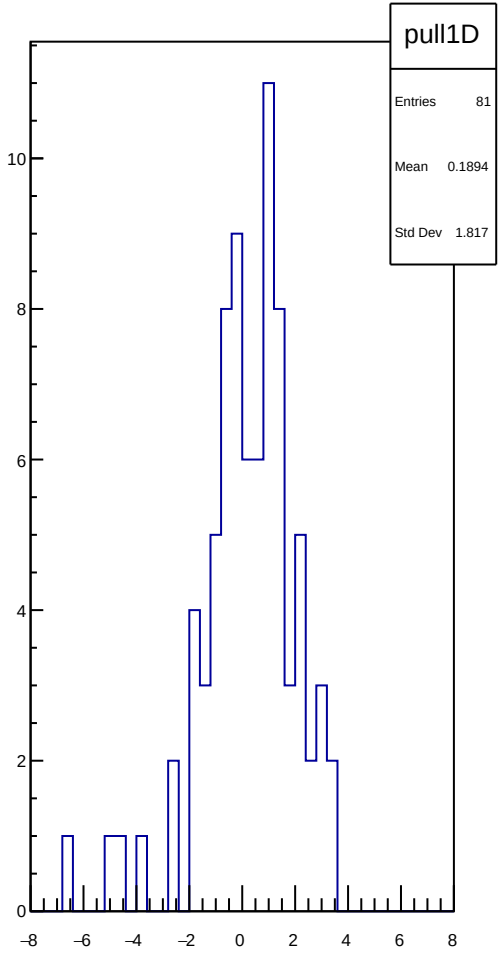

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 311 / 80
p0 −59.98 ± 1.092
pull
Entries 81
Mean 167.5
Std Dev 0
pull1D
Entries 81
Mean −0.193
Std Dev 1.95

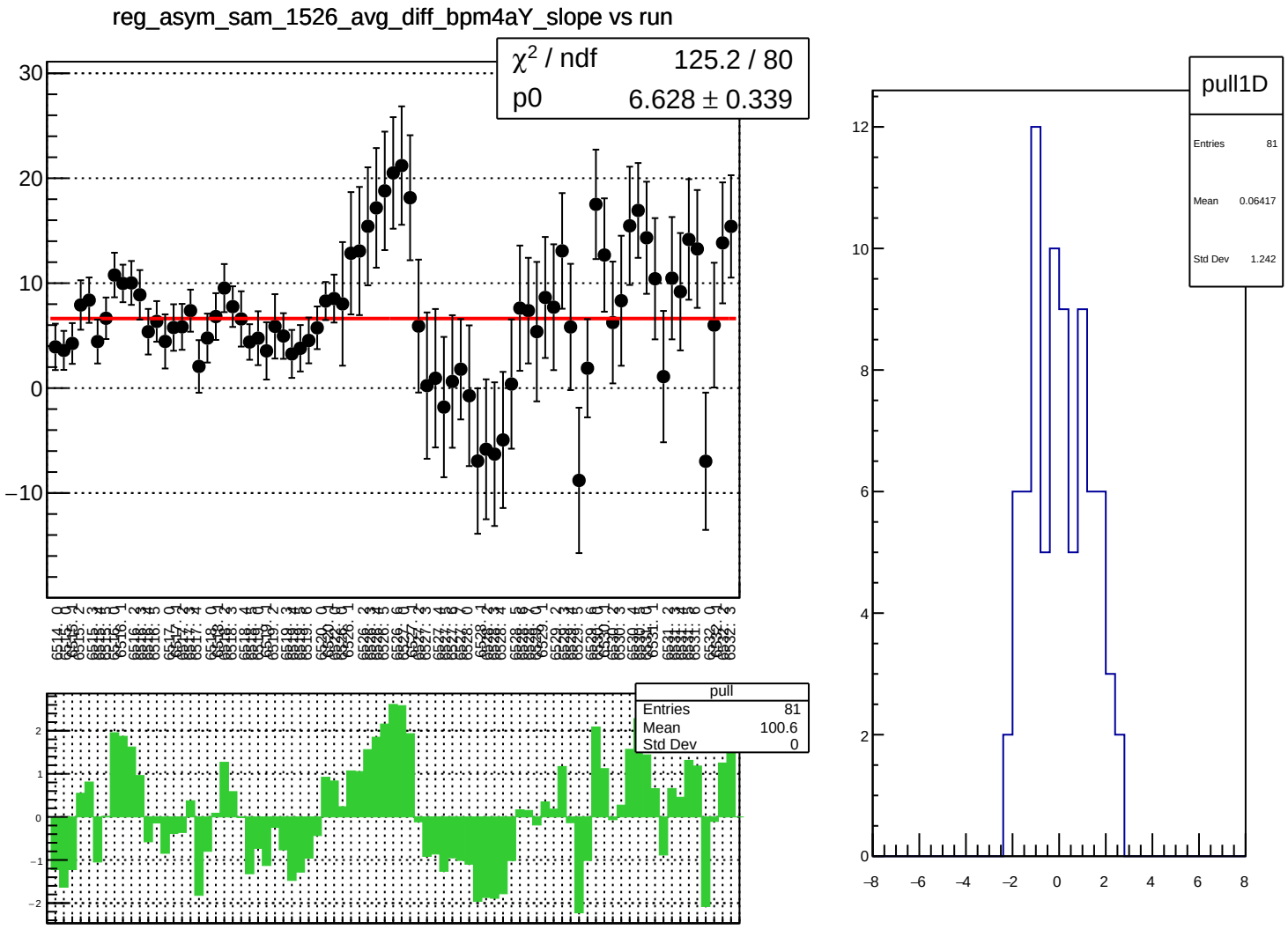

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 396.6 / 80
p0 43.6 ± 1.164
pull
Entries 81
Mean 103.4
Std Dev 0

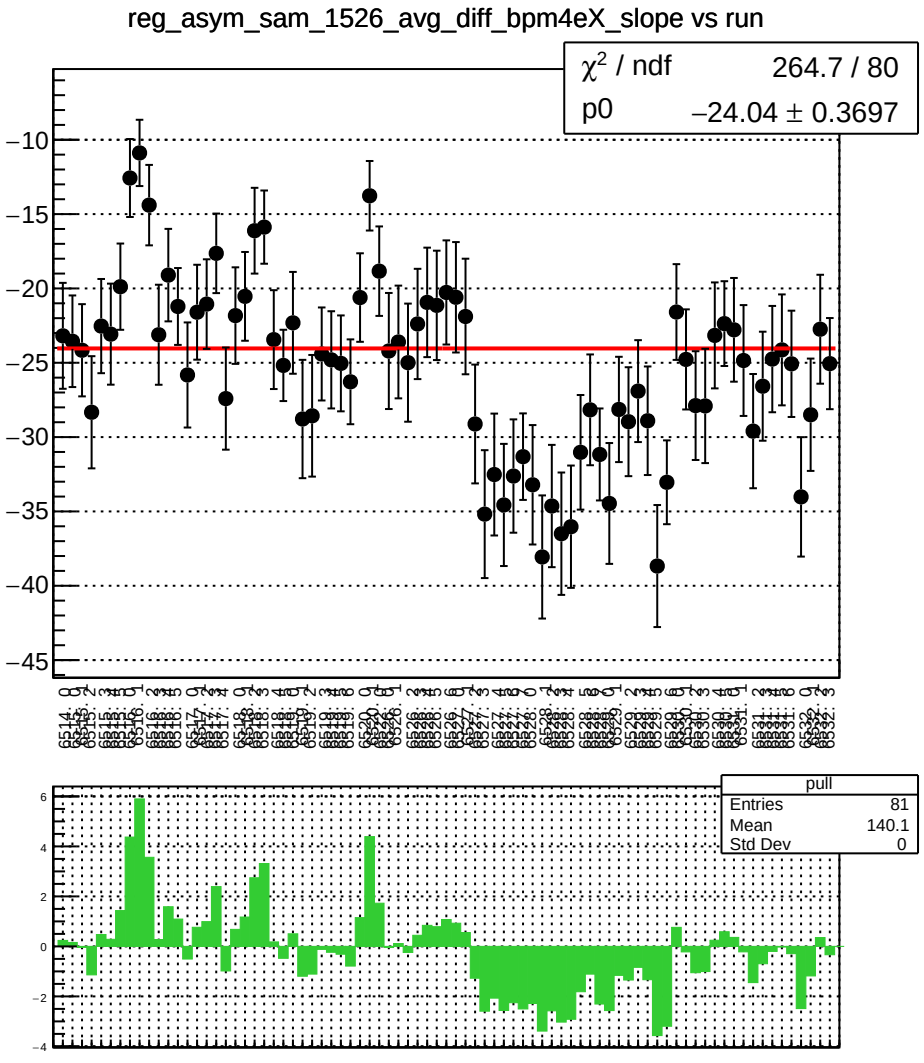

pull1D
Entries 81
Mean −0.5861
Std Dev 2.134

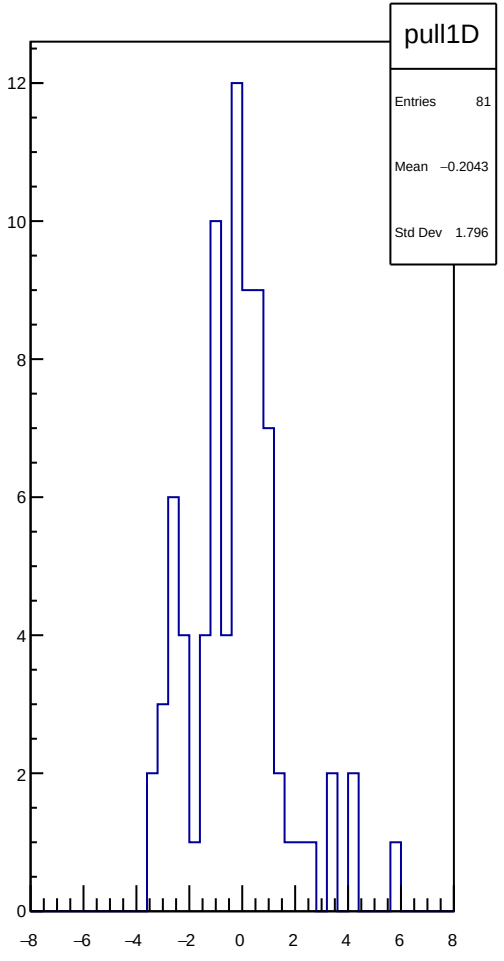

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 10.78 / 80
p0 −0.03976 ± 0.04385
pull
Entries 81
Mean 77.48
Std Dev 0
pull1D
Entries 81
Mean −0.009093
Std Dev 0.3647

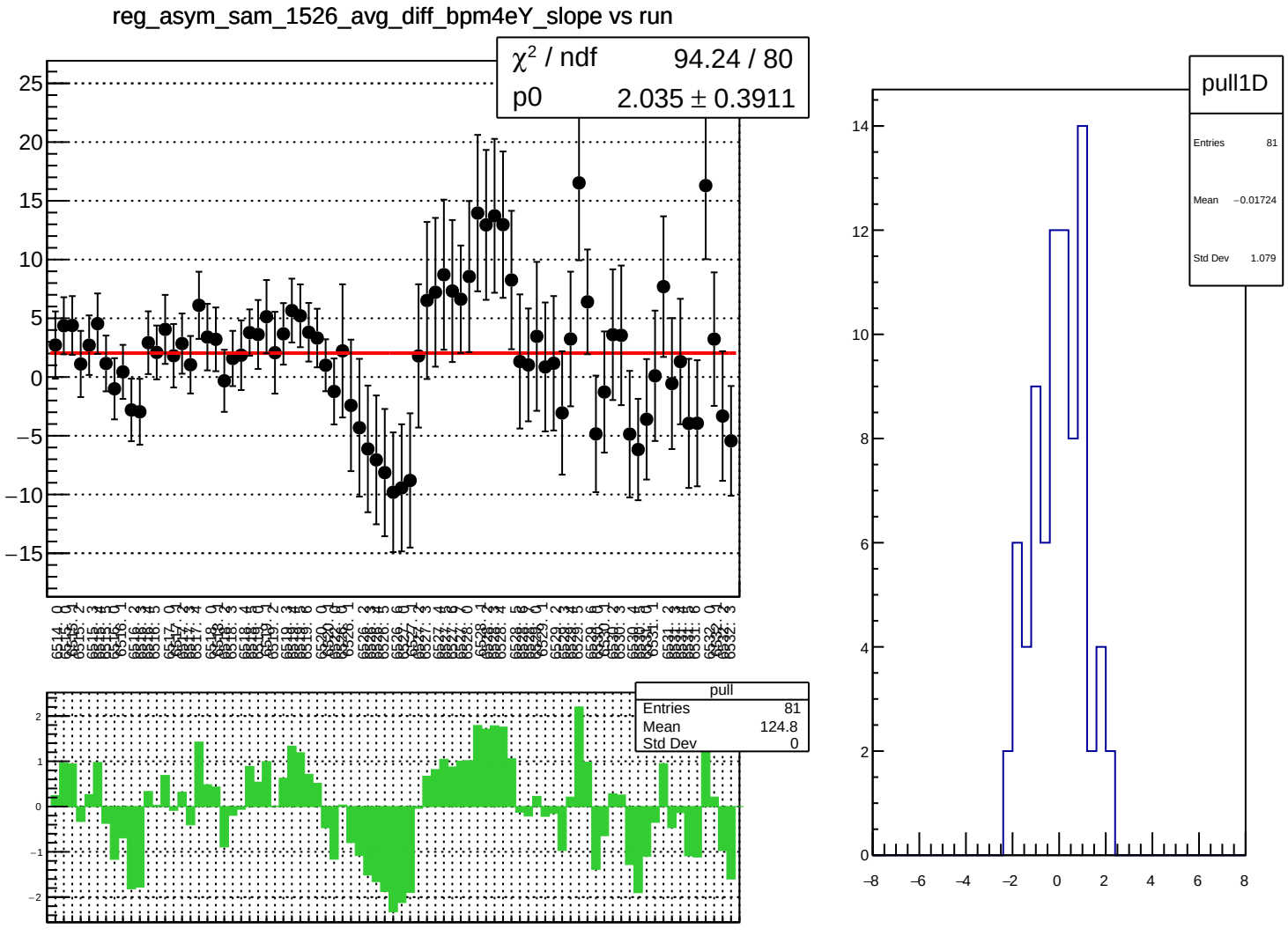

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 270.2 / 80
p0 −14.13 ± 0.3545
pull
Entries 81
Mean 129.7
Std Dev 0

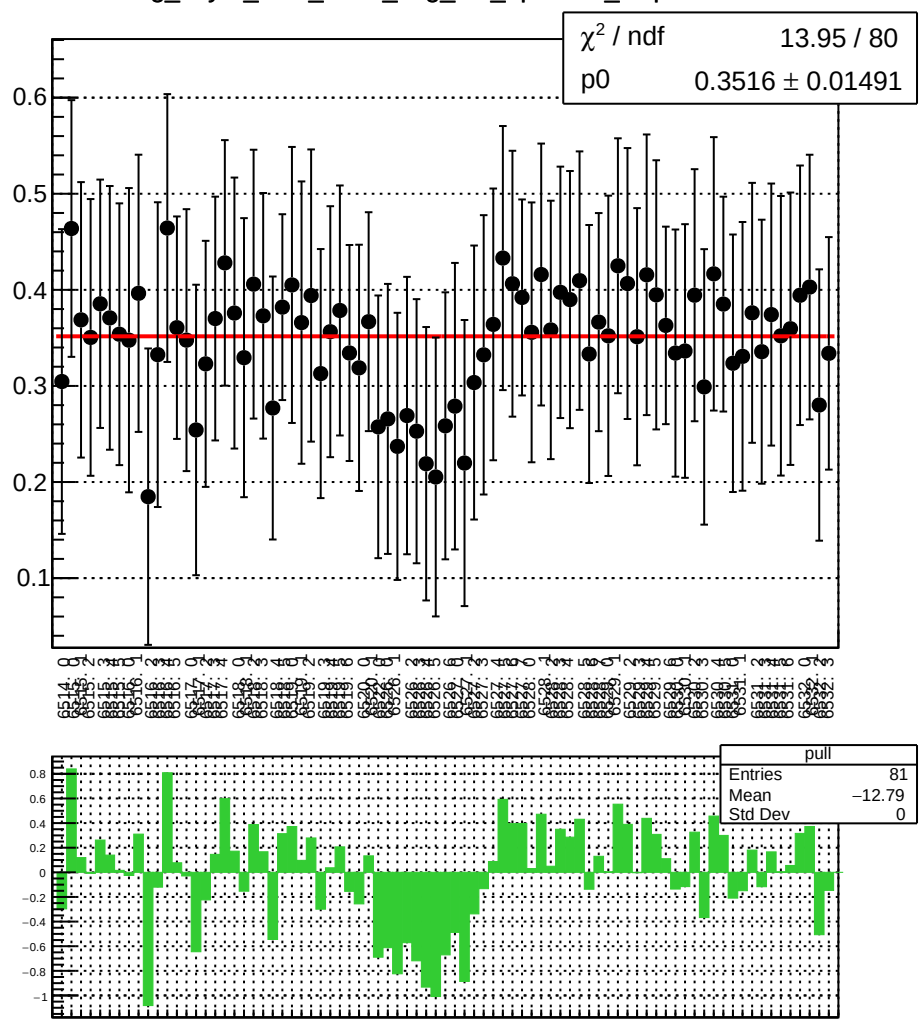

pull1D
Entries 81
Mean 0.1894
Std Dev 1.817

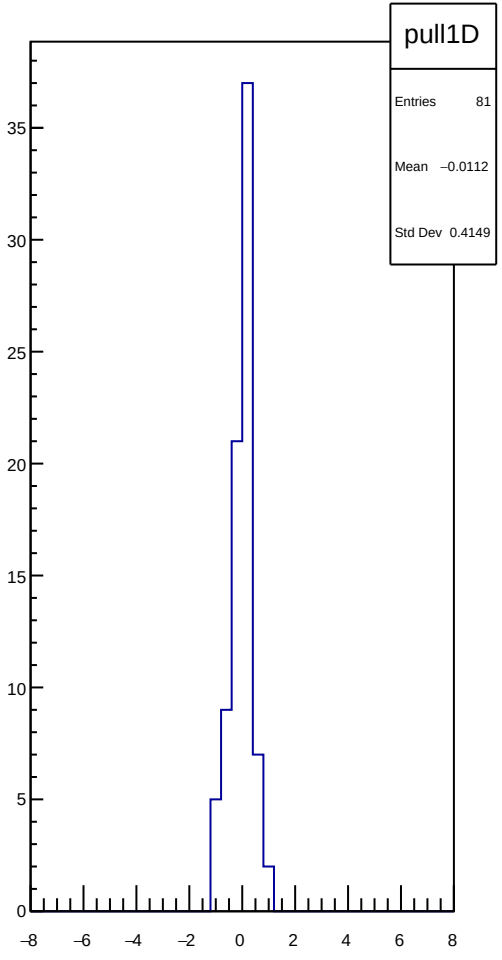

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 125.2 / 80
p0 6.628 ± 0.339
pull
Entries 81
Mean 100.6
Std Dev 0
pull1D
Entries 81
Mean 0.06417
Std Dev 1.242

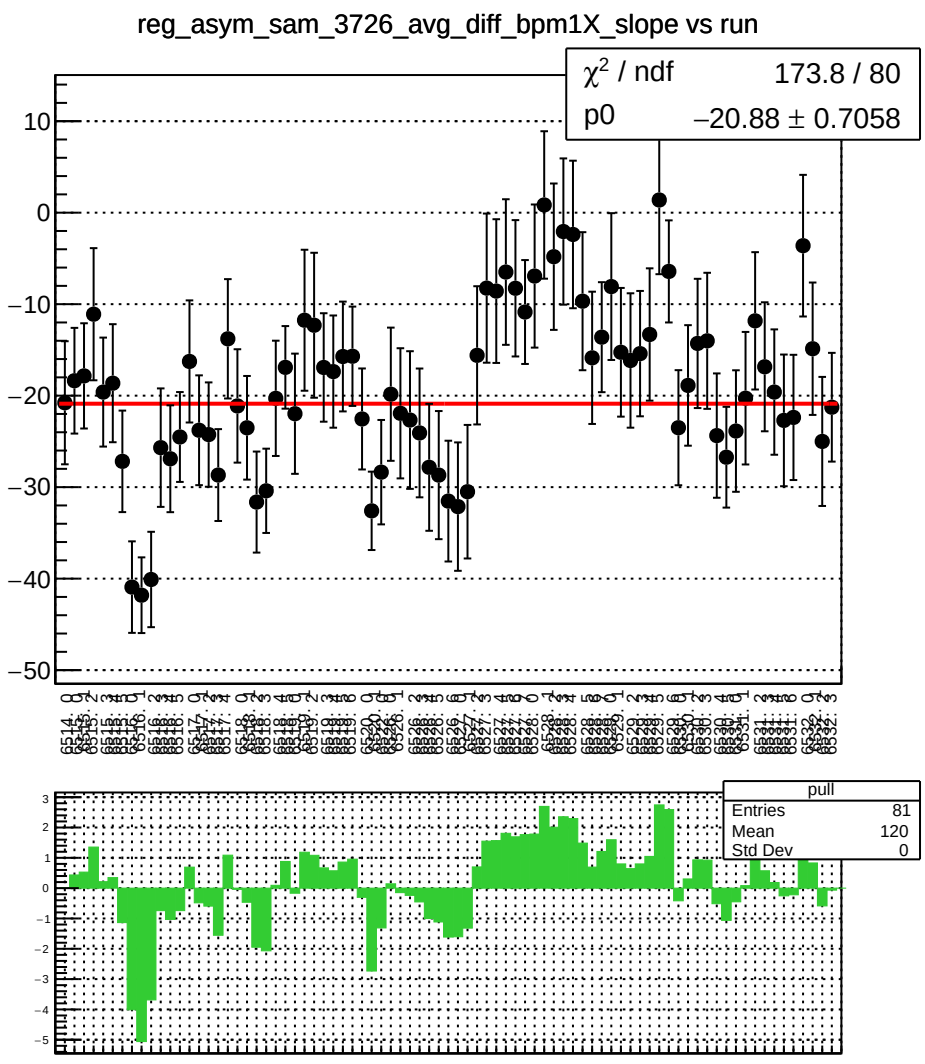

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 264.7 / 80
p0 −24.04 ± 0.3697
pull
Entries 81
Mean 140.1
Std Dev 0

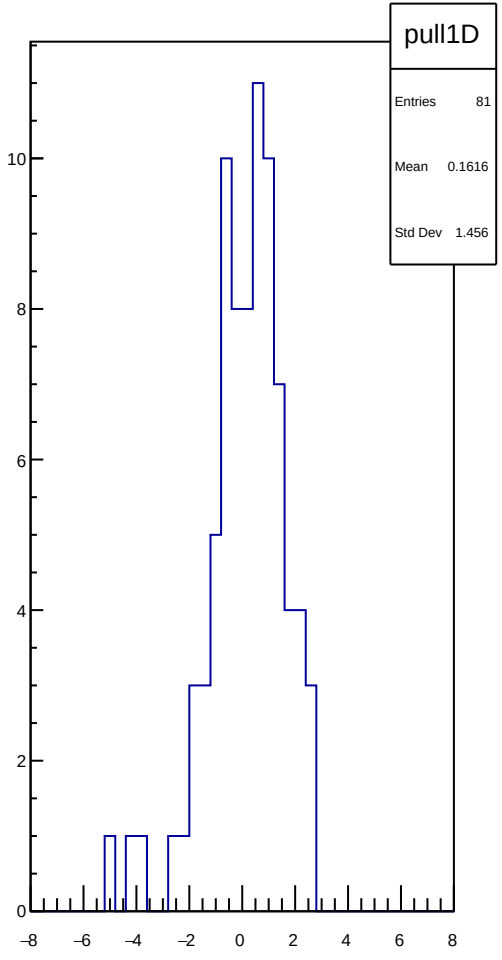

pull1D
Entries 81
Mean −0.2043
Std Dev 1.796

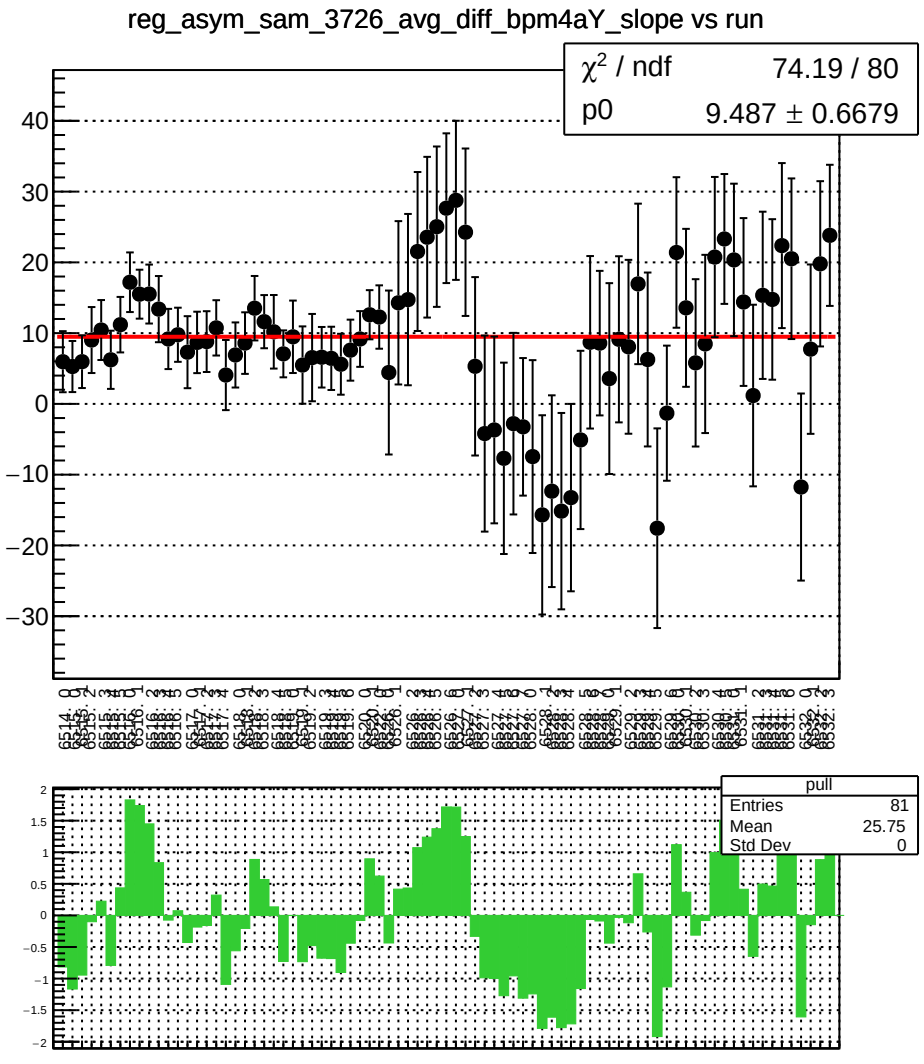

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 94.24 / 80
p0 2.035 ± 0.3911
pull
Entries 81
Mean 124.8
Std Dev 0
pull1D
Entries 81
Mean −0.01724
Std Dev 1.079

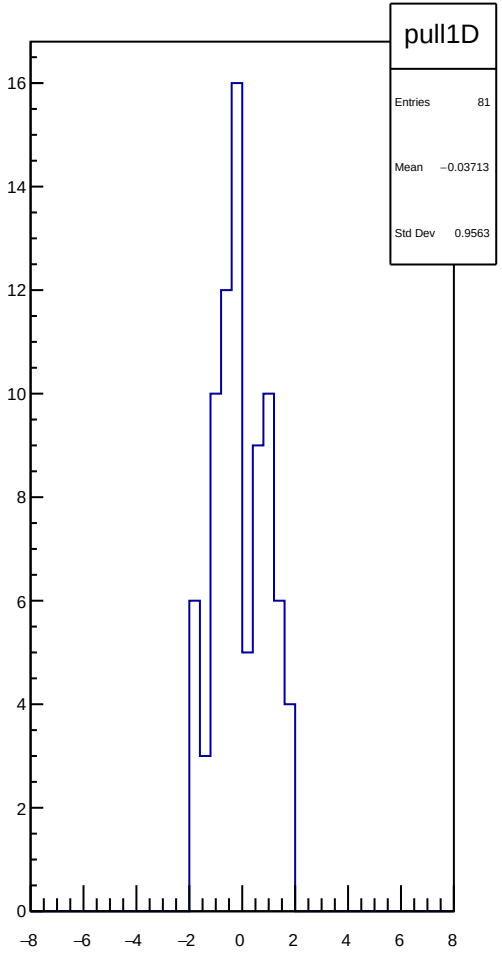

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 13.95 / 80
p0 0.3516 ± 0.01491
pull
Entries 81
Mean −12.79
Std Dev 0

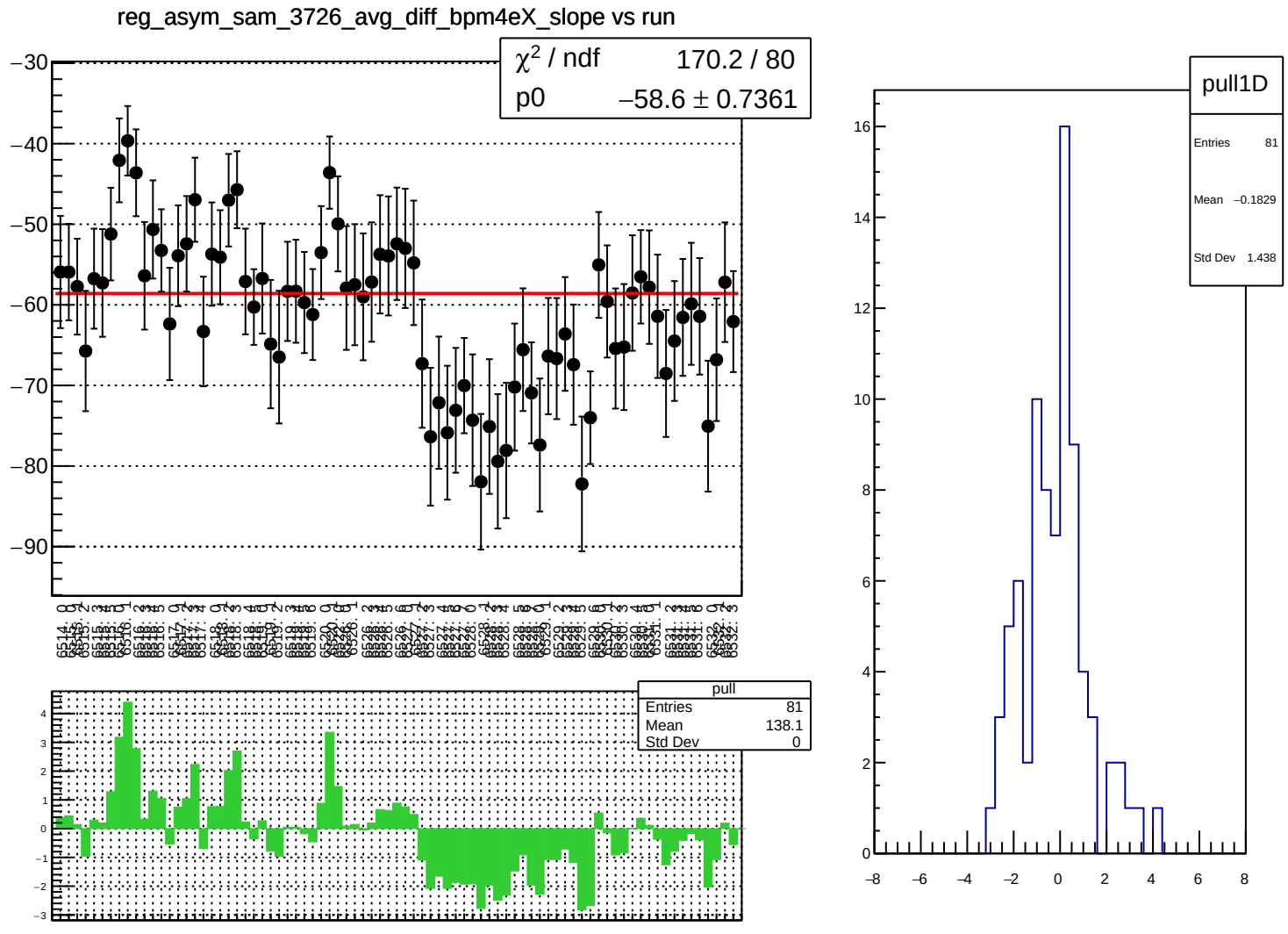

pull1D
Entries 81
Mean −0.0112
Std Dev 0.4149

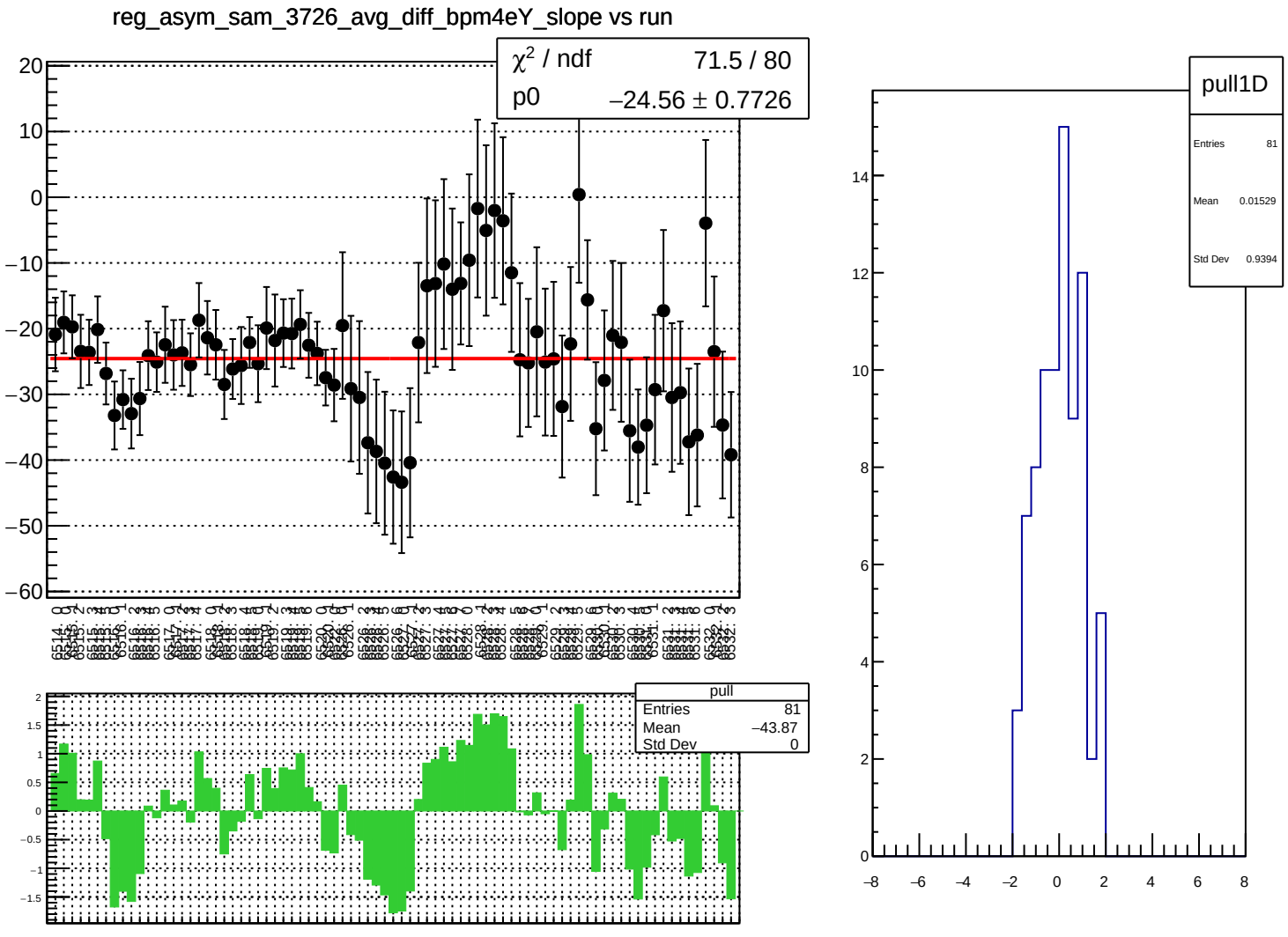

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 173.8 / 80
p0 −20.88 ± 0.7058
pull
Entries 81
Mean 120
Std Dev 0

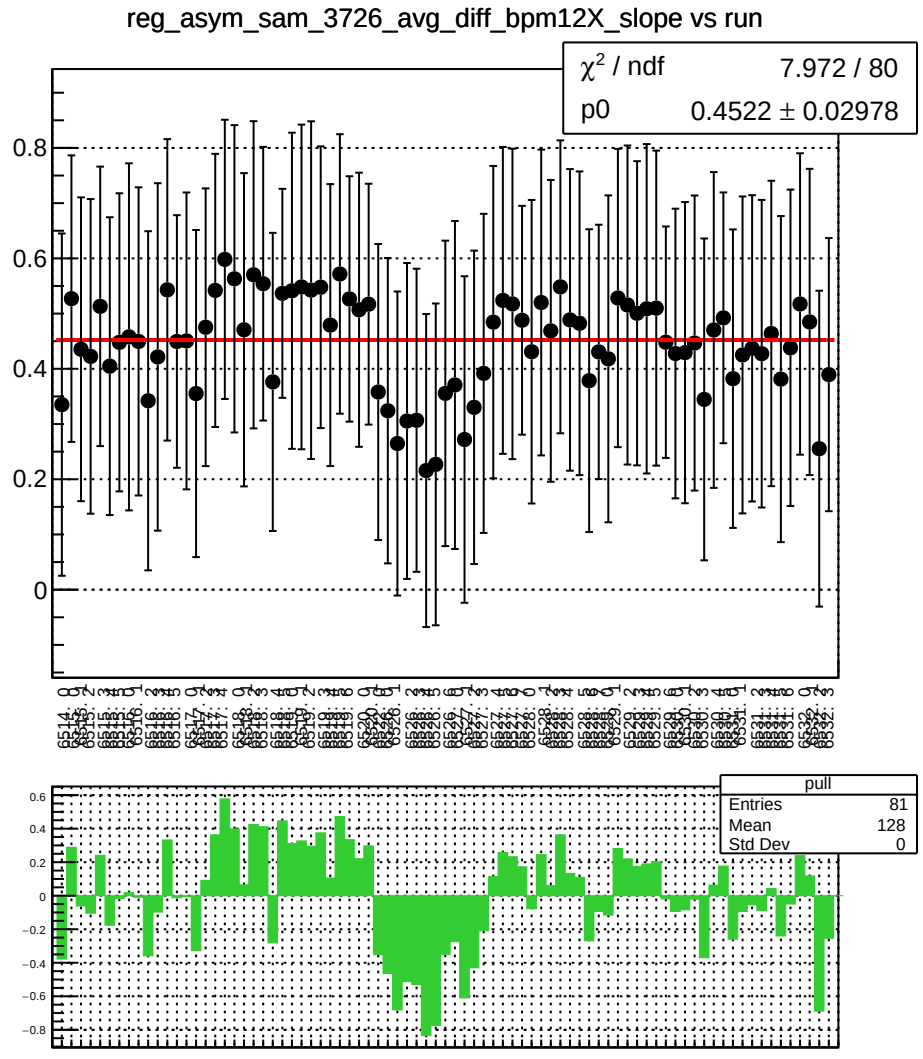

pull1D
Entries 81
Mean 0.1616
Std Dev 1.456

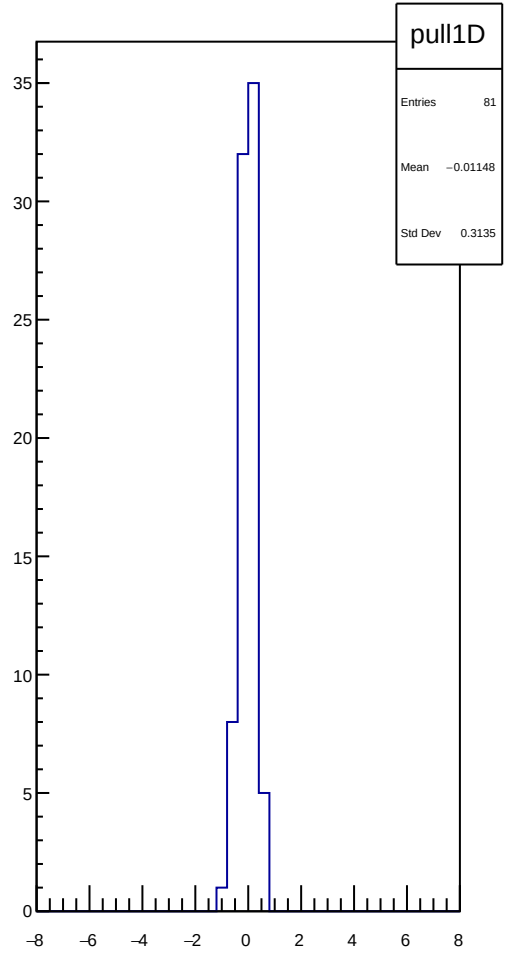

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 74.19 / 80
p0 9.487 ± 0.6679
pull
Entries 81
Mean 25.75
Std Dev 0

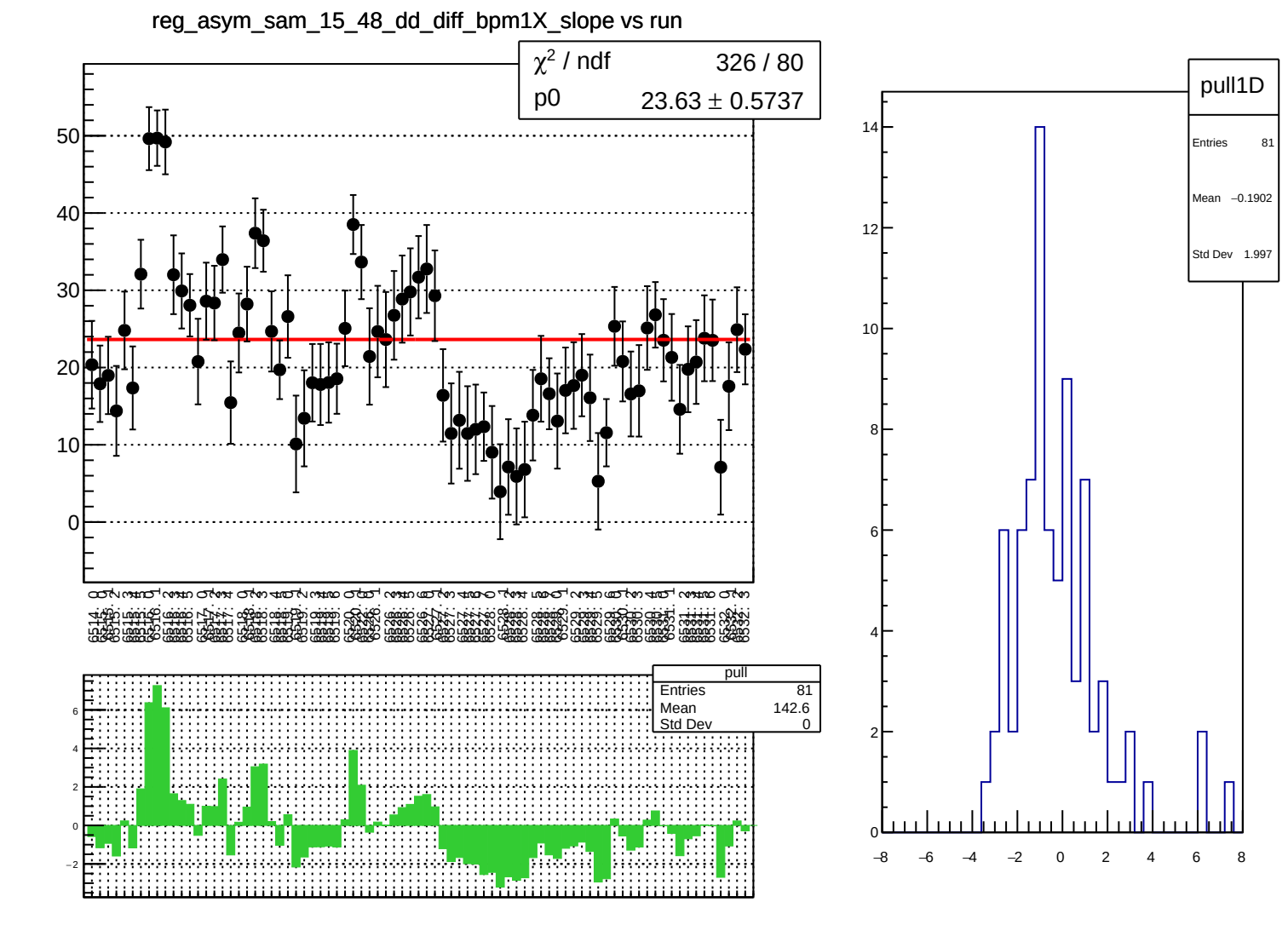

pull1D
Entries 81
Mean −0.03713
Std Dev 0.9563

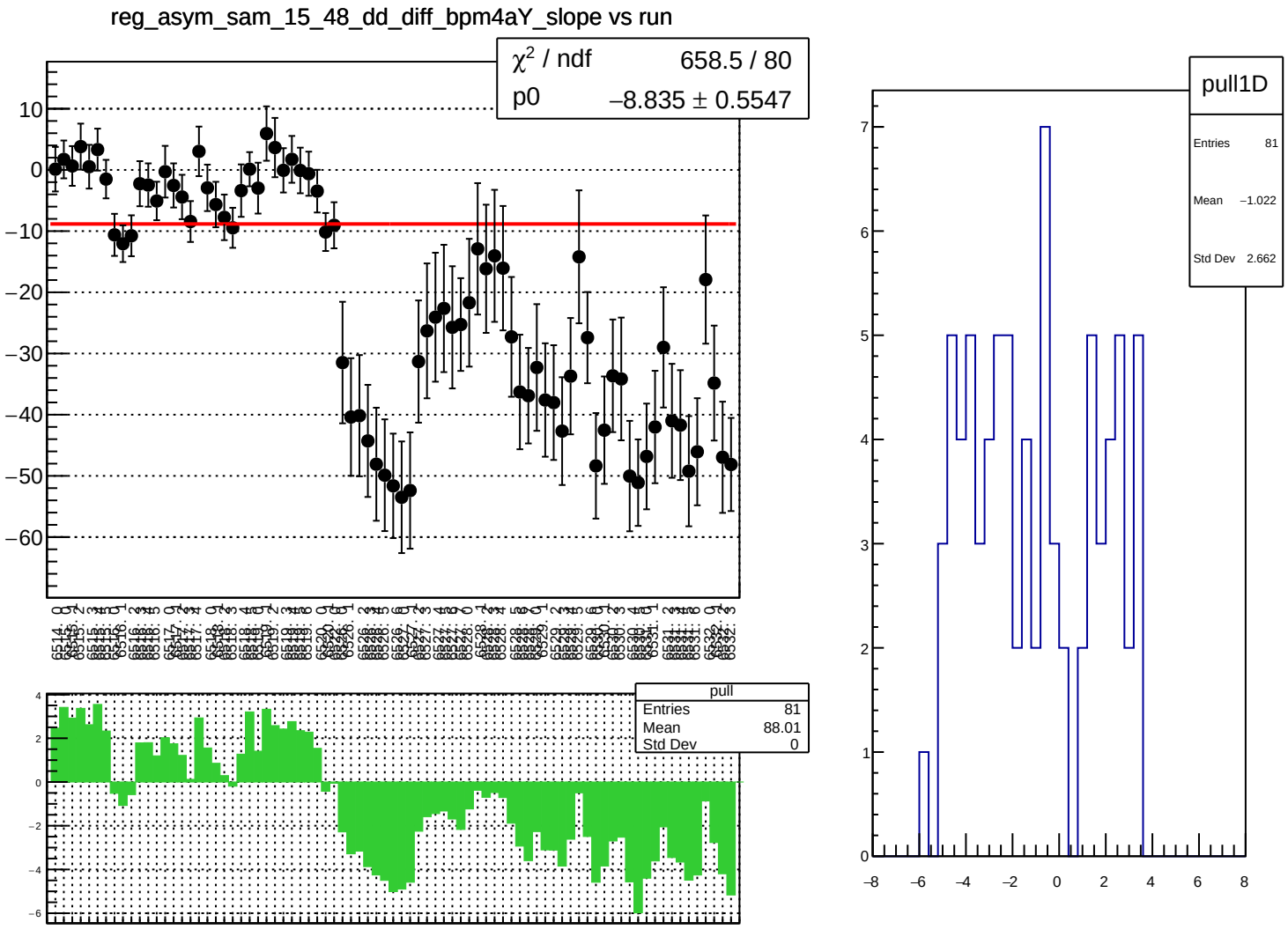

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 170.2 / 80
p0 −58.6 ± 0.7361
pull
Entries 81
Mean 138.1
Std Dev 0
pull1D
Entries 81
Mean −0.1829
Std Dev 1.438

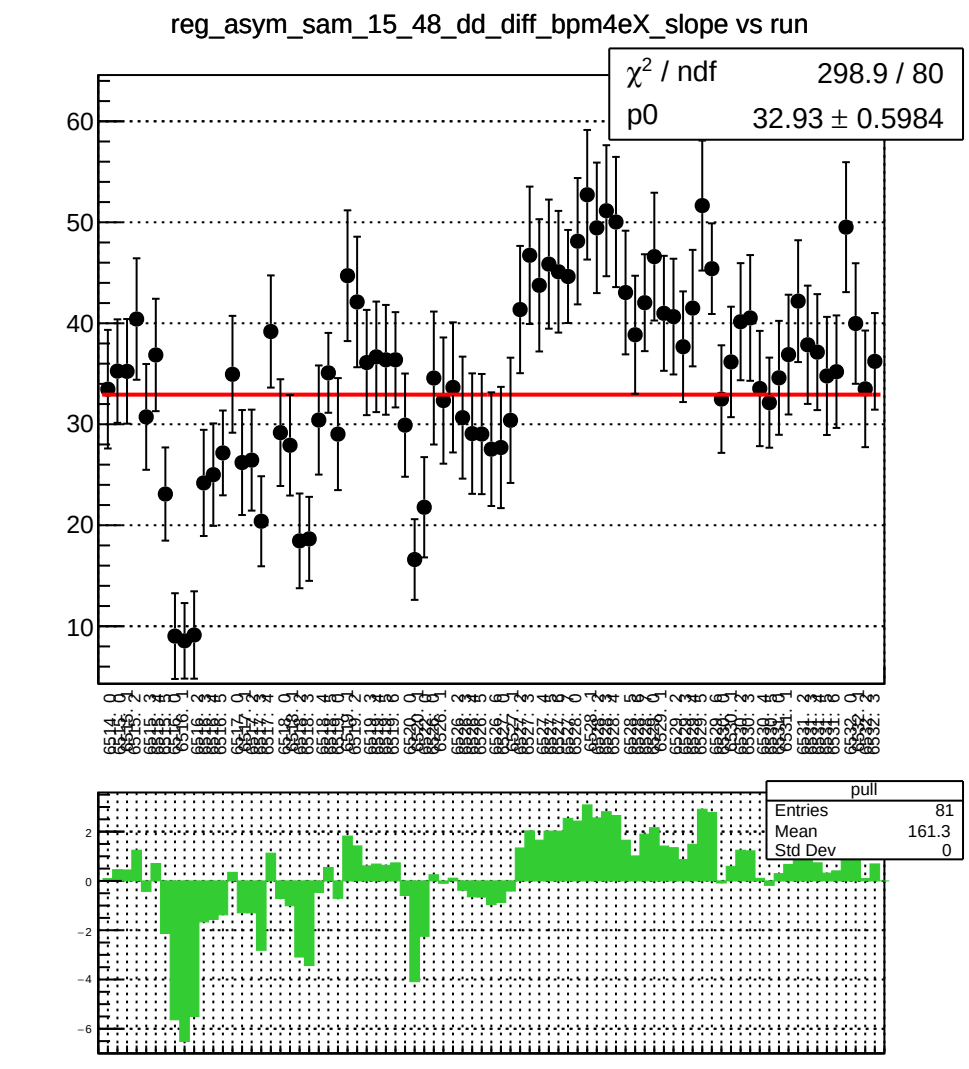

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 71.5 / 80
p0 −24.56 ± 0.7726
pull
Entries 81
Mean −43.87
Std Dev 0
pull1D
Entries 81
Mean 0.01529
Std Dev 0.9394

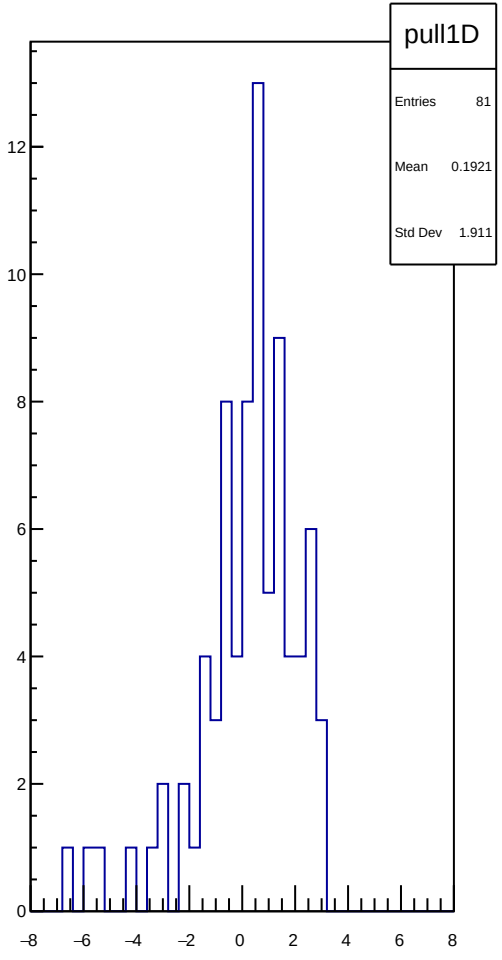

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 7.972 / 80
p0 0.4522 ± 0.02978
pull
Entries 81
Mean 128
Std Dev 0

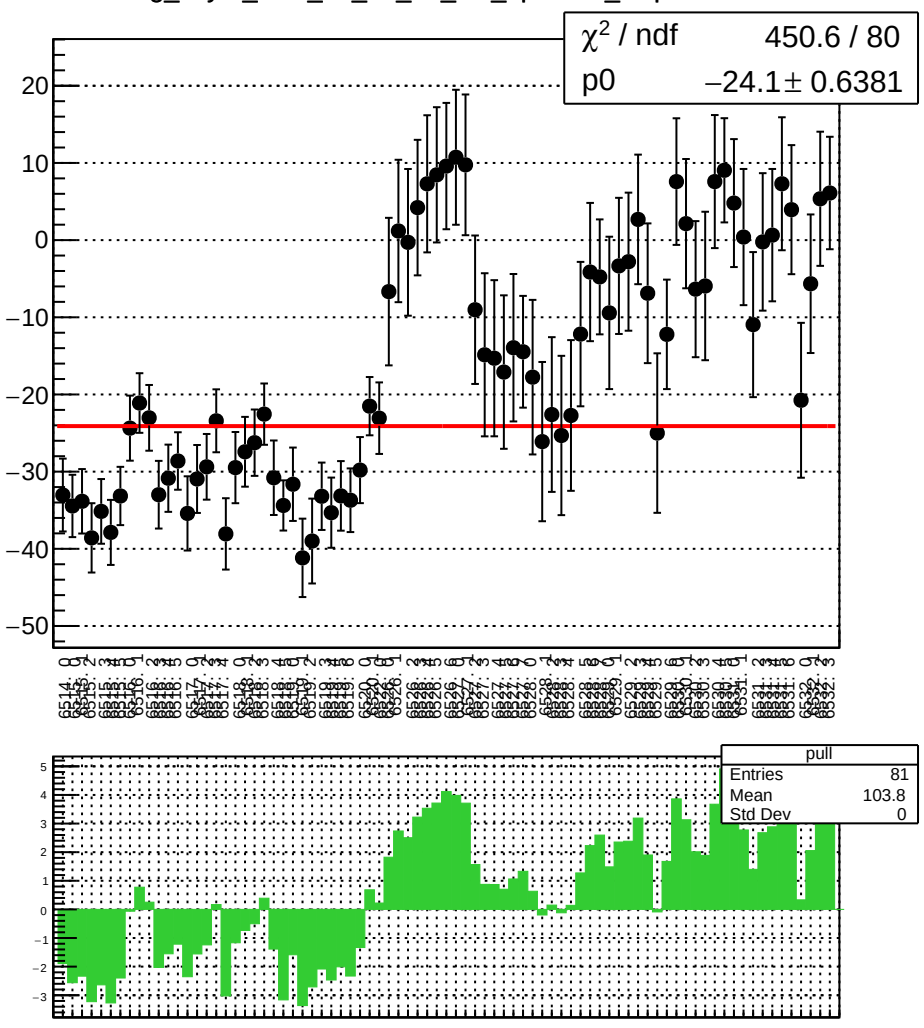

pull1D
Entries 81
Mean −0.01148
Std Dev 0.3135

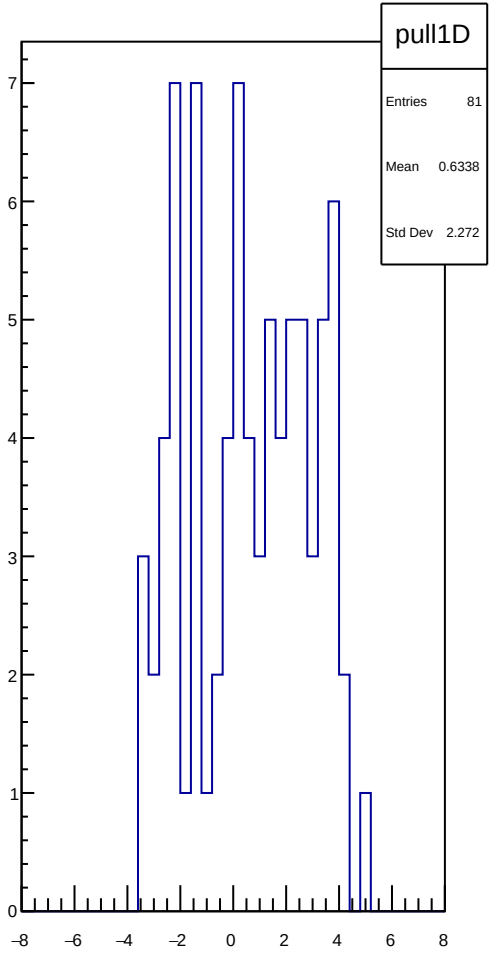

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 326 / 80
p0 23.63 ± 0.5737
pull
Entries 81
Mean 142.6
Std Dev 0
pull1D
Entries 81
Mean −0.1902
Std Dev 1.997

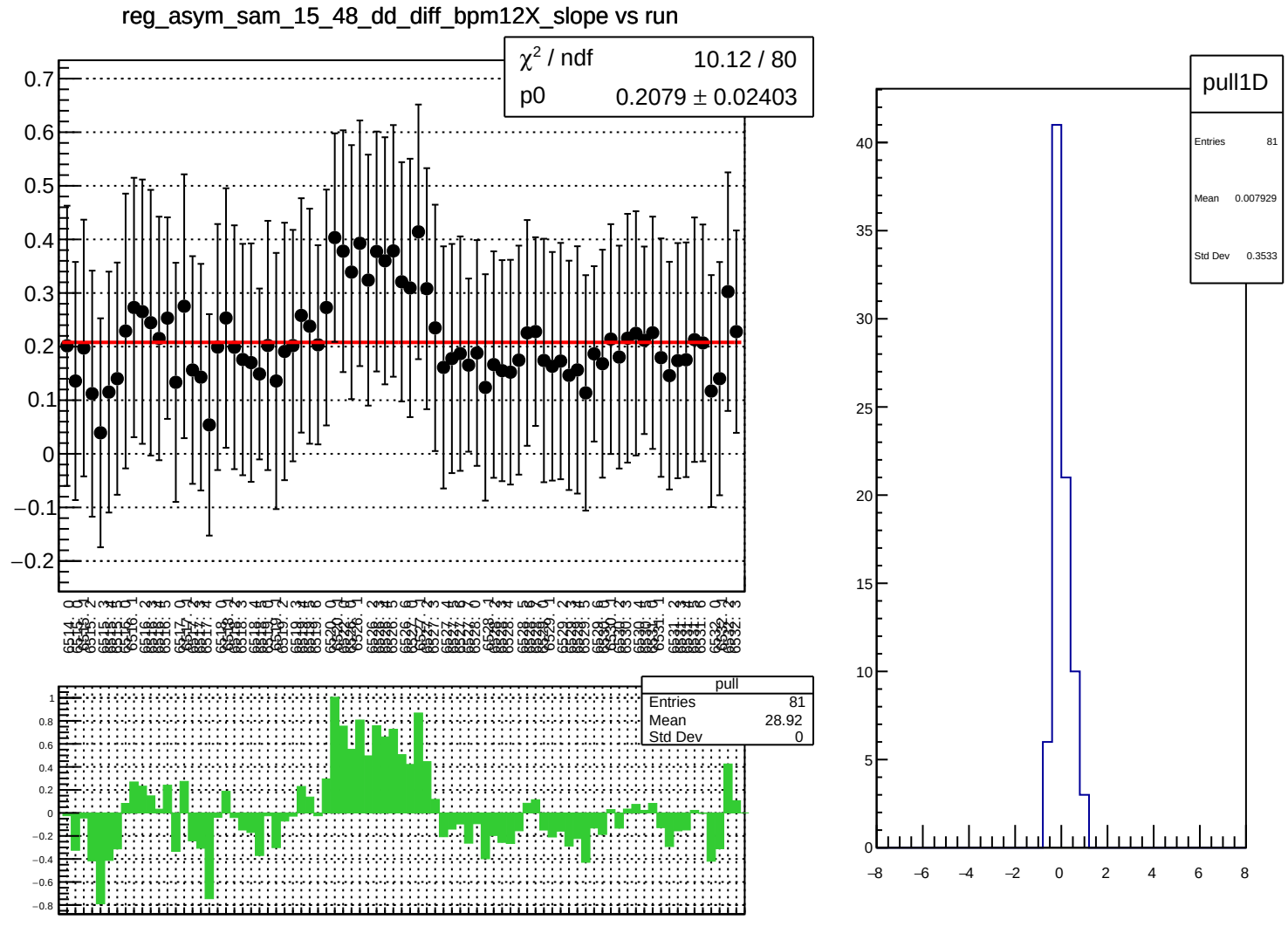

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 658.5 / 80
p0 −8.835 ± 0.5547
pull
Entries 81
Mean 88.01
Std Dev 0
pull1D
Entries 81
Mean −1.022
Std Dev 2.662

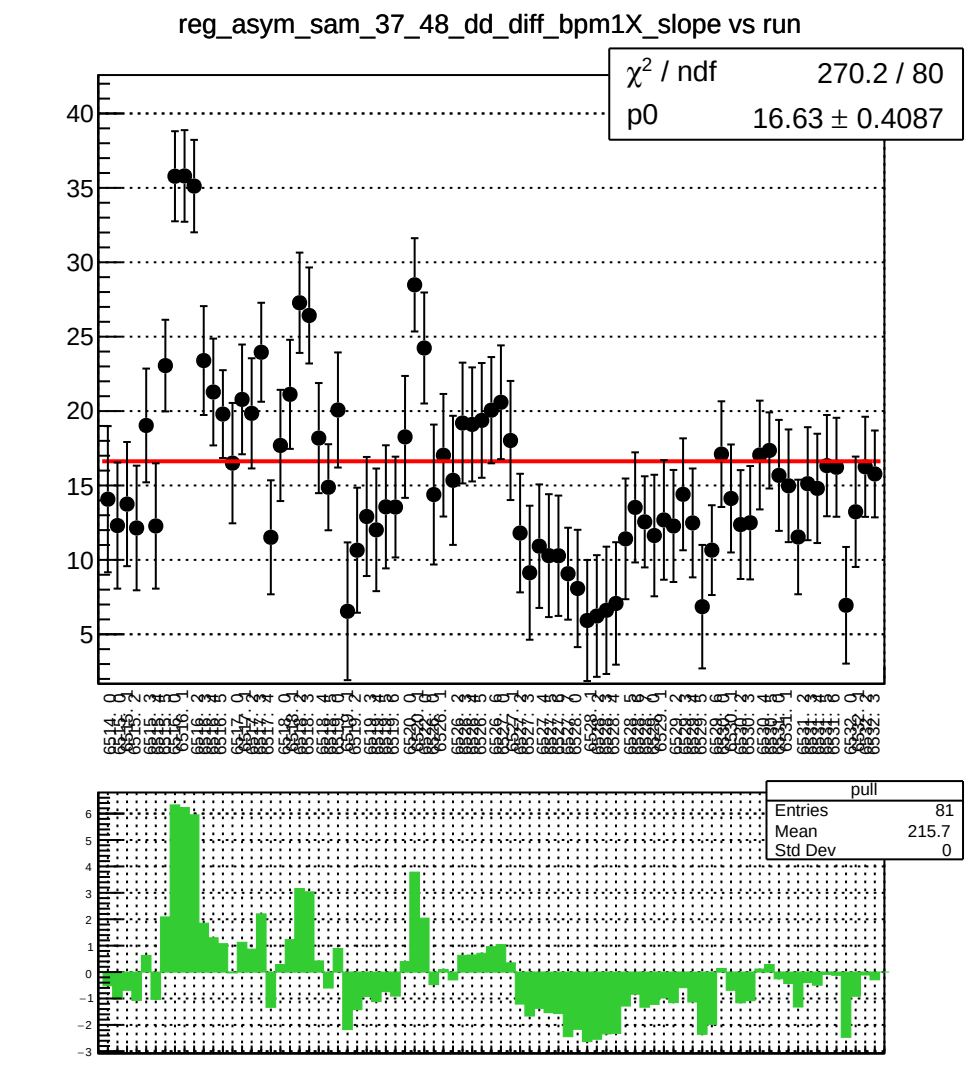

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 298.9 / 80
p0 32.93 ± 0.5984
pull
Entries 81
Mean 161.3
Std Dev 0

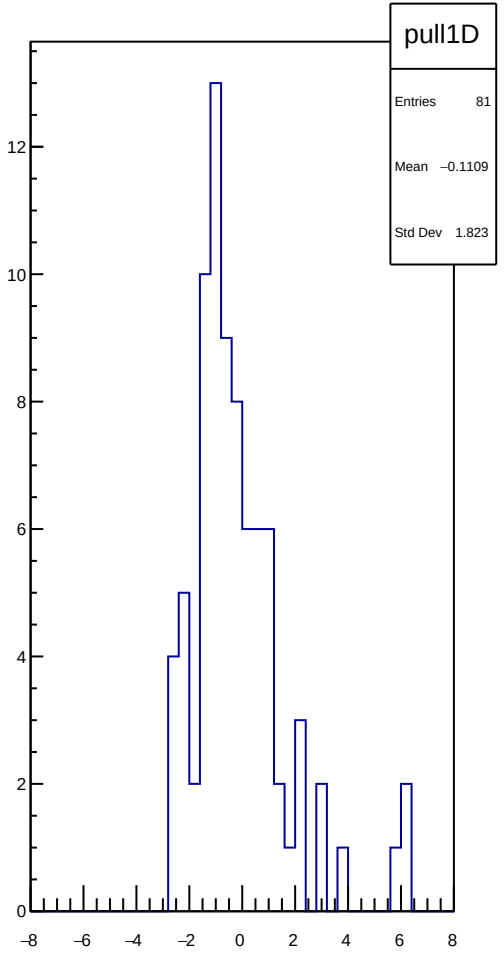

pull1D
Entries 81
Mean 0.1921
Std Dev 1.911

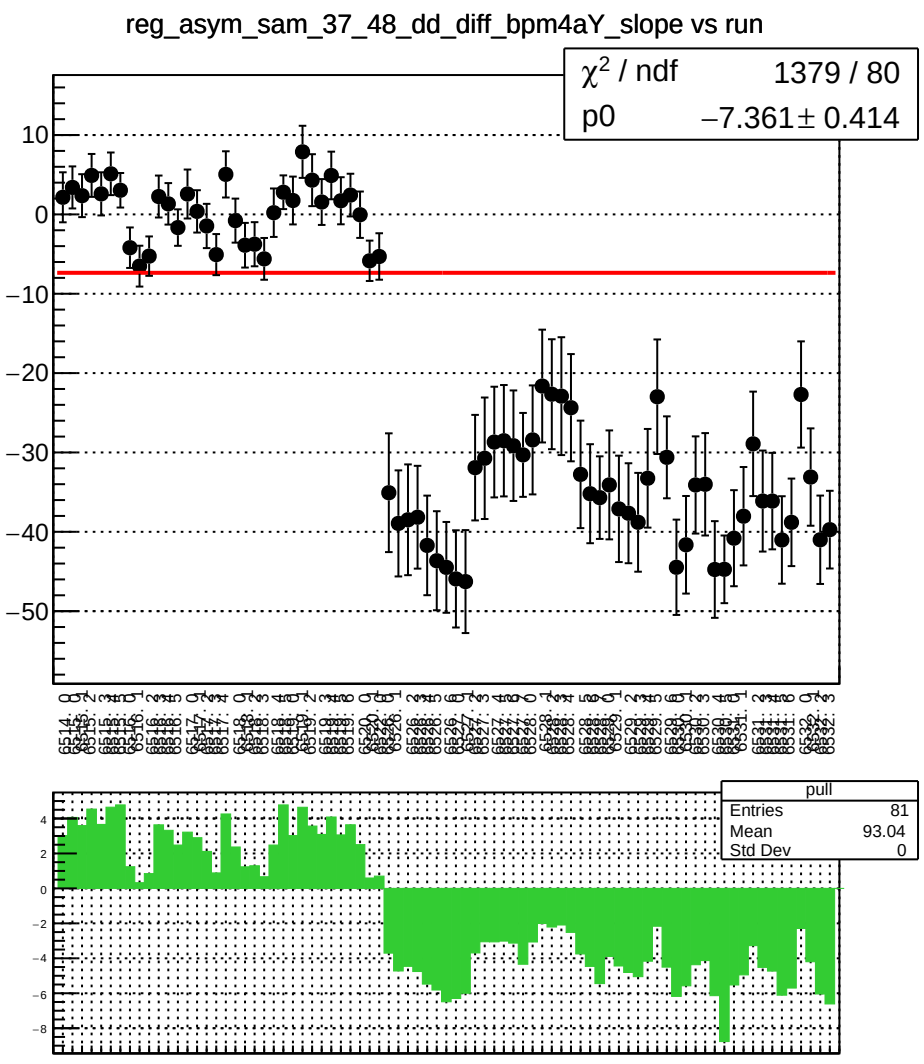

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 450.6 / 80
p0 −24.1 ± 0.6381
pull
Entries 81
Mean 103.8
Std Dev 0

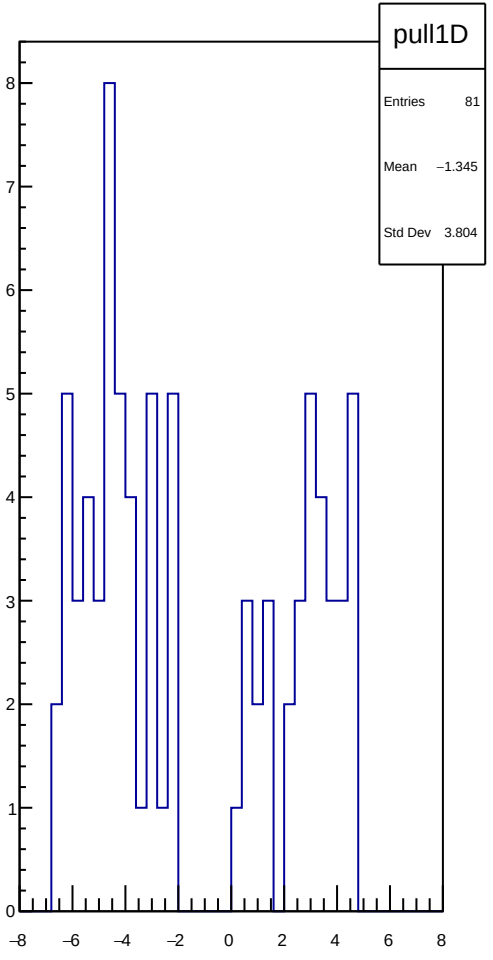

pull1D
Entries 81
Mean 0.6338
Std Dev 2.272

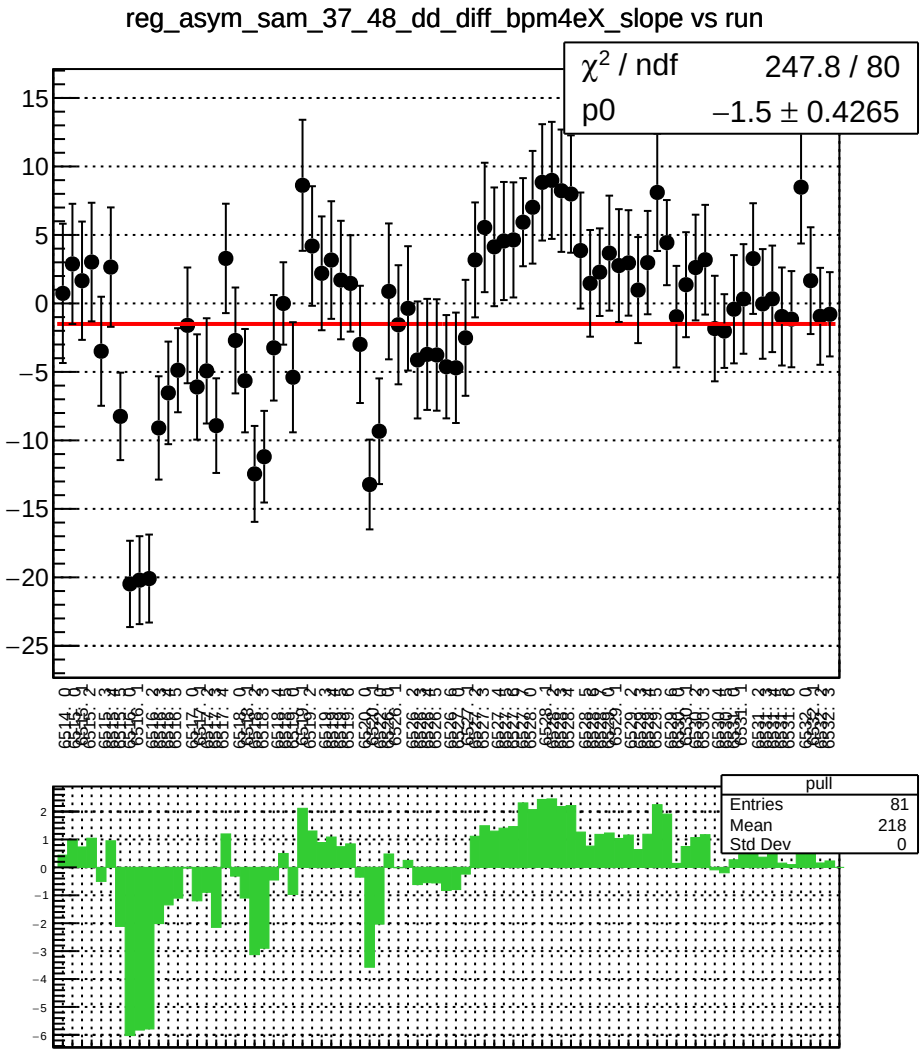

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 10.12 / 80
p0 0.2079 ± 0.02403
pull
Entries 81
Mean 28.92
Std Dev 0
pull1D
Entries 81
Mean 0.007929
Std Dev 0.3533

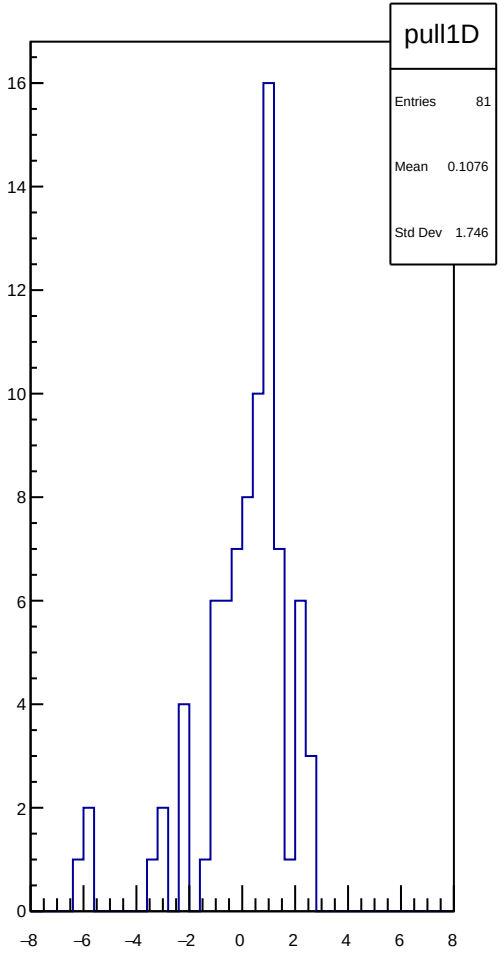

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 270.2 / 80
p0 16.63 ± 0.4087
pull
Entries 81
Mean 215.7
Std Dev 0

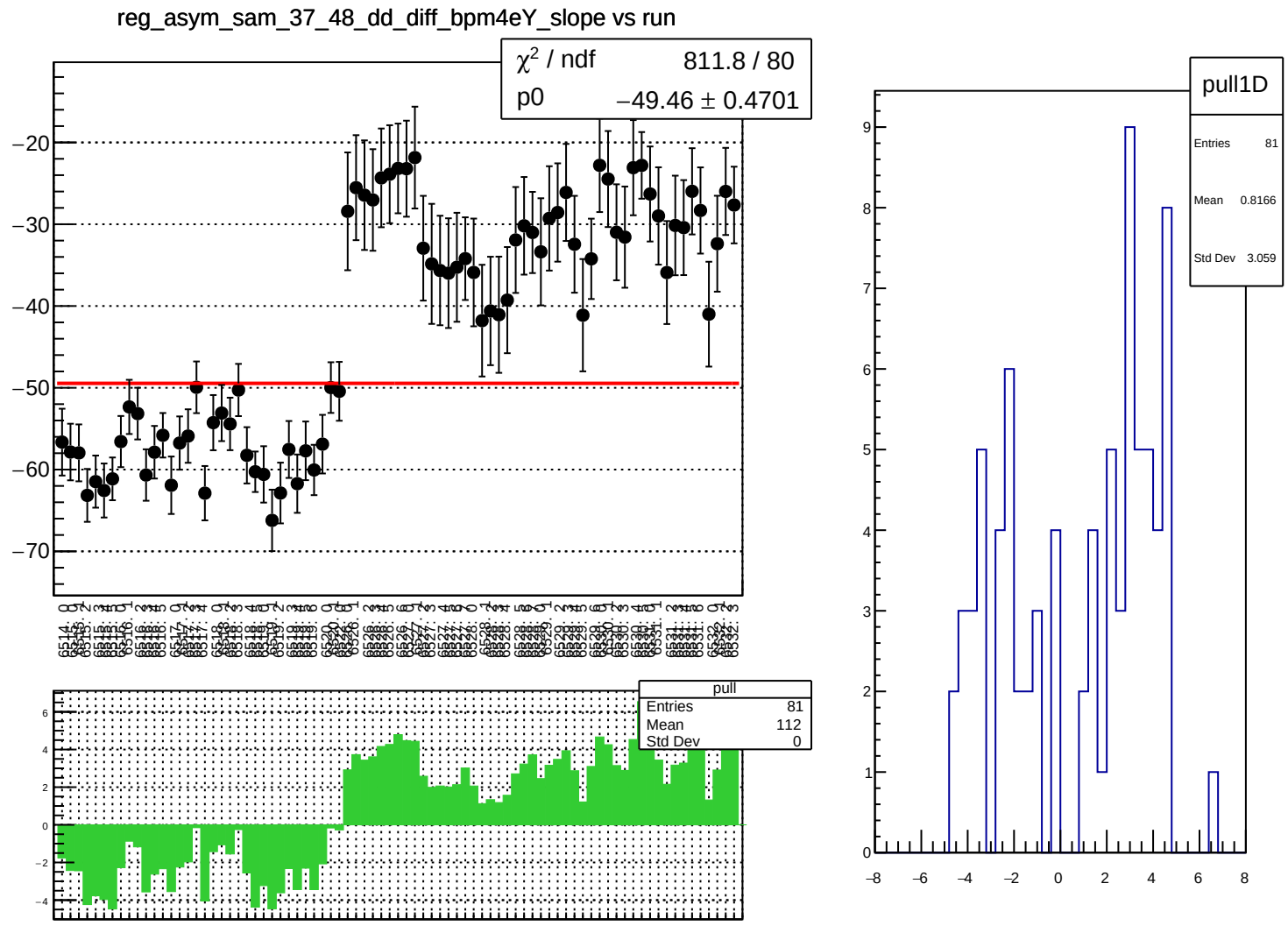

pull1D
Entries 81
Mean −0.1109
Std Dev 1.823

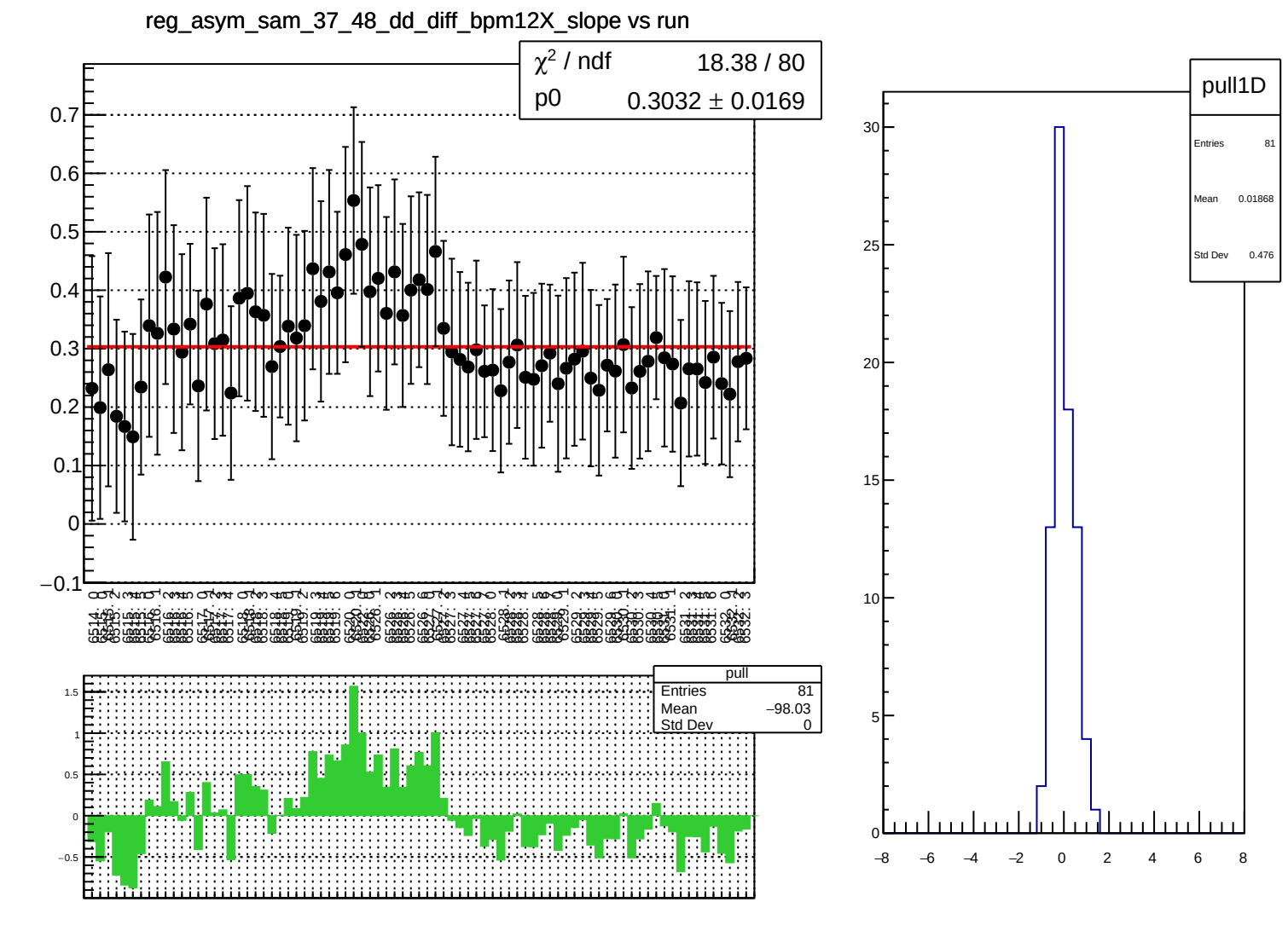

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 1379 / 80
p0 −7.361 ± 0.414
pull
Entries 81
Mean 93.04
Std Dev 0

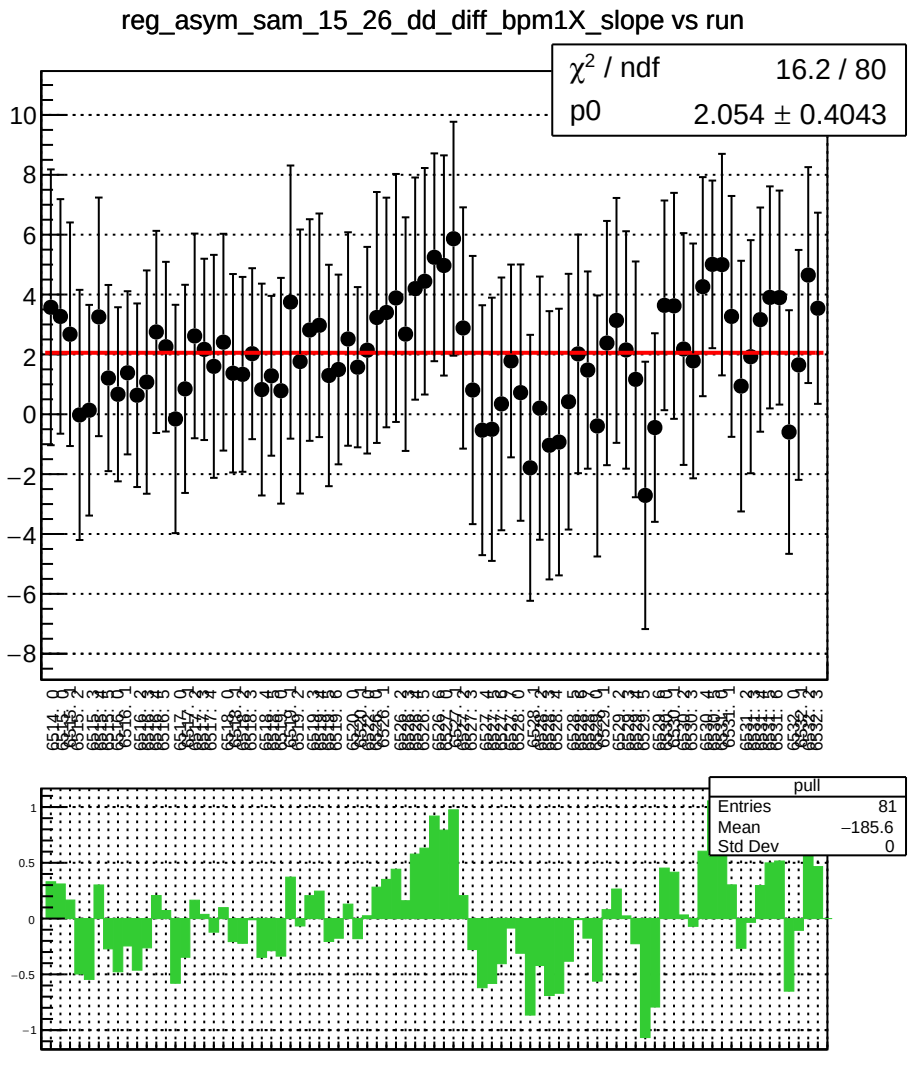

pull1D
Entries 81
Mean −1.345
Std Dev 3.804

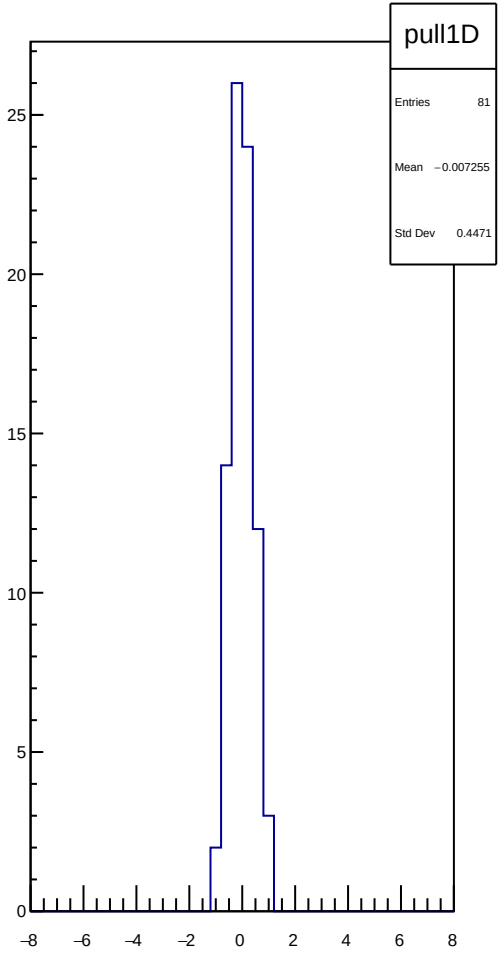

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 247.8 / 80
p0 −1.5 ± 0.4265
pull
Entries 81
Mean 218
Std Dev 0

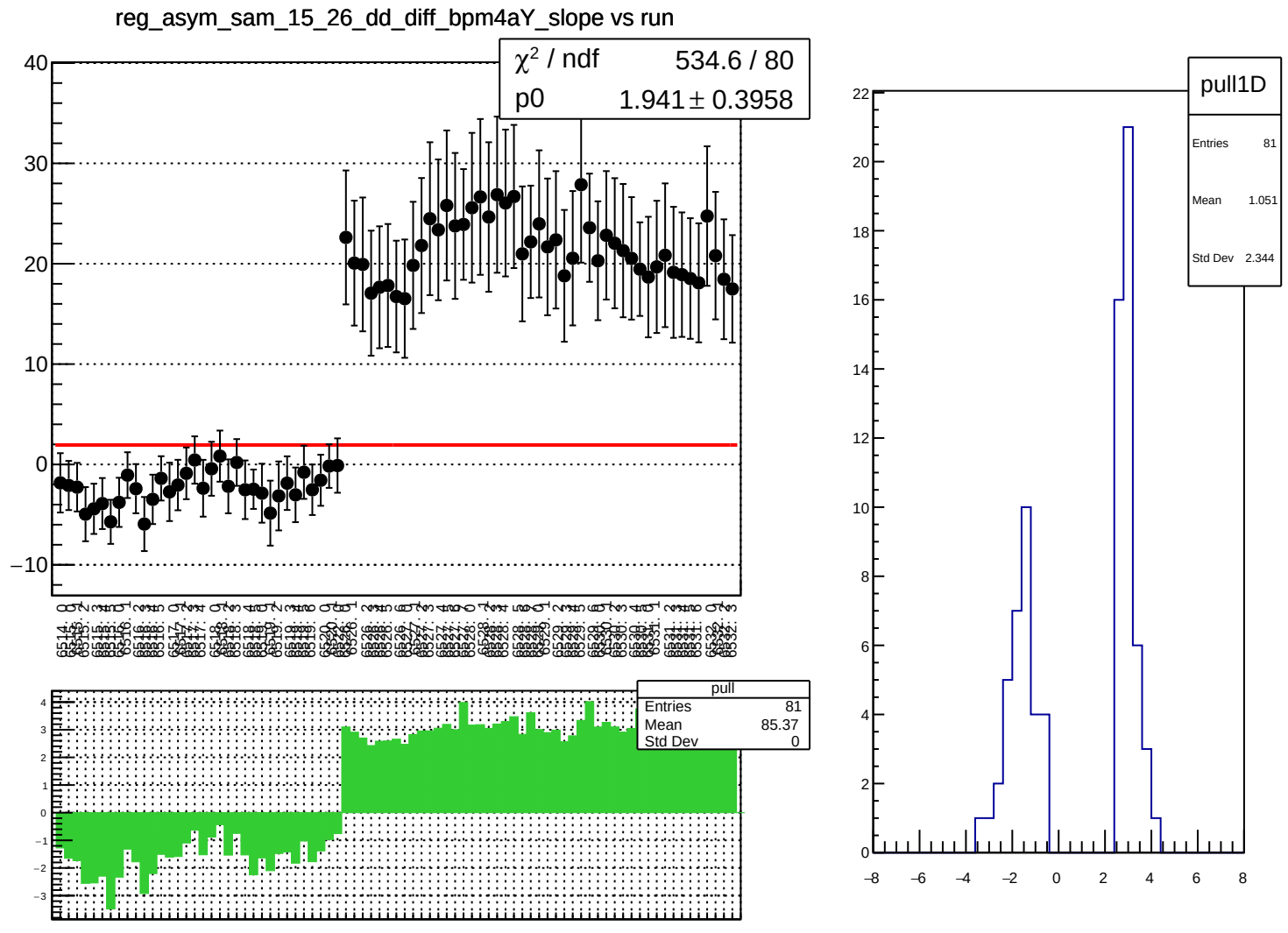

pull1D
Entries 81
Mean 0.1076
Std Dev 1.746

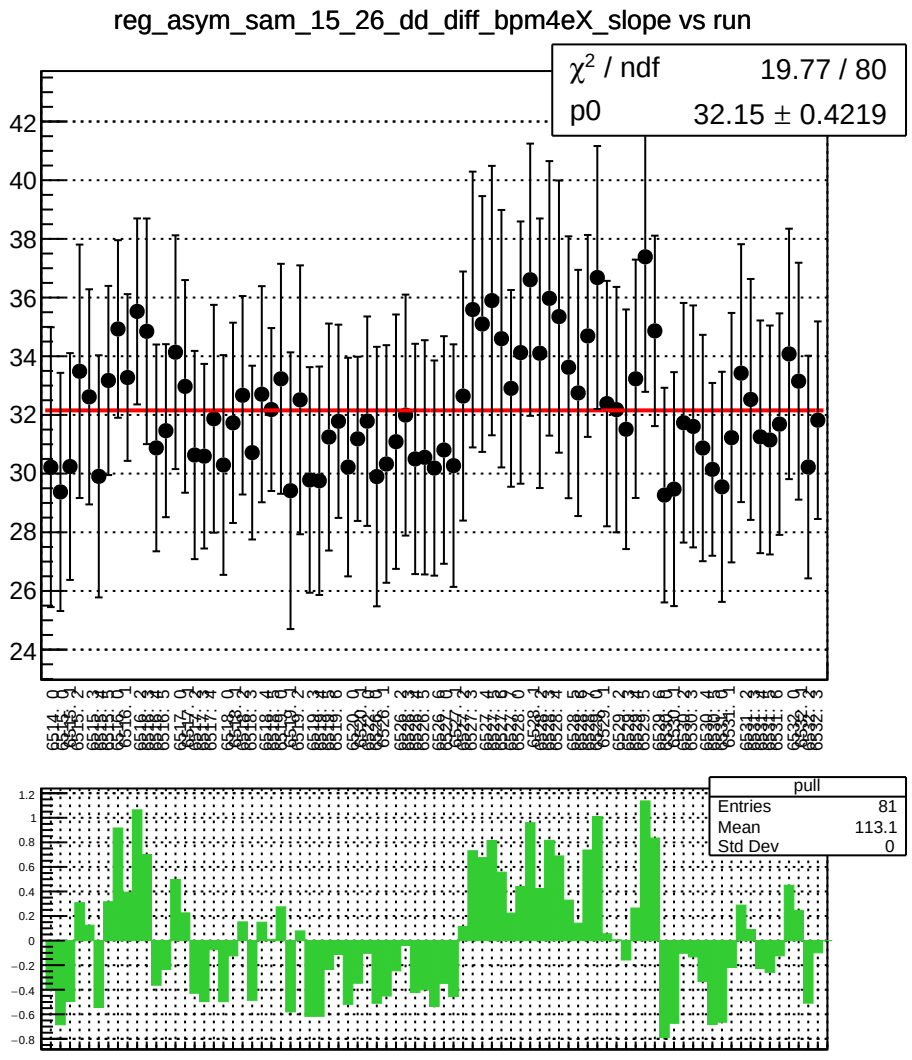

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 811.8 / 80
p0 −49.46 ± 0.4701
−20
−30
−40
−50
−60
−70
pull
Entries 81
Mean 112
Std Dev 0
6
4
2
0
−2
−4
pull1D
Entries 81
Mean 0.8166
Std Dev 3.059
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

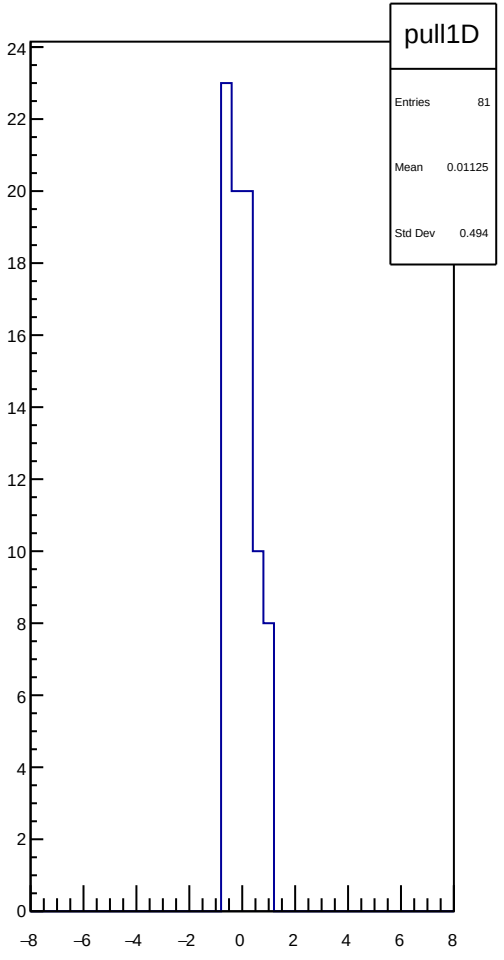

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 18.38 / 80
p0 0.3032 ± 0.0169
pull
Entries 81
Mean −98.03
Std Dev 0
pull1D
Entries 81
Mean 0.01868
Std Dev 0.476

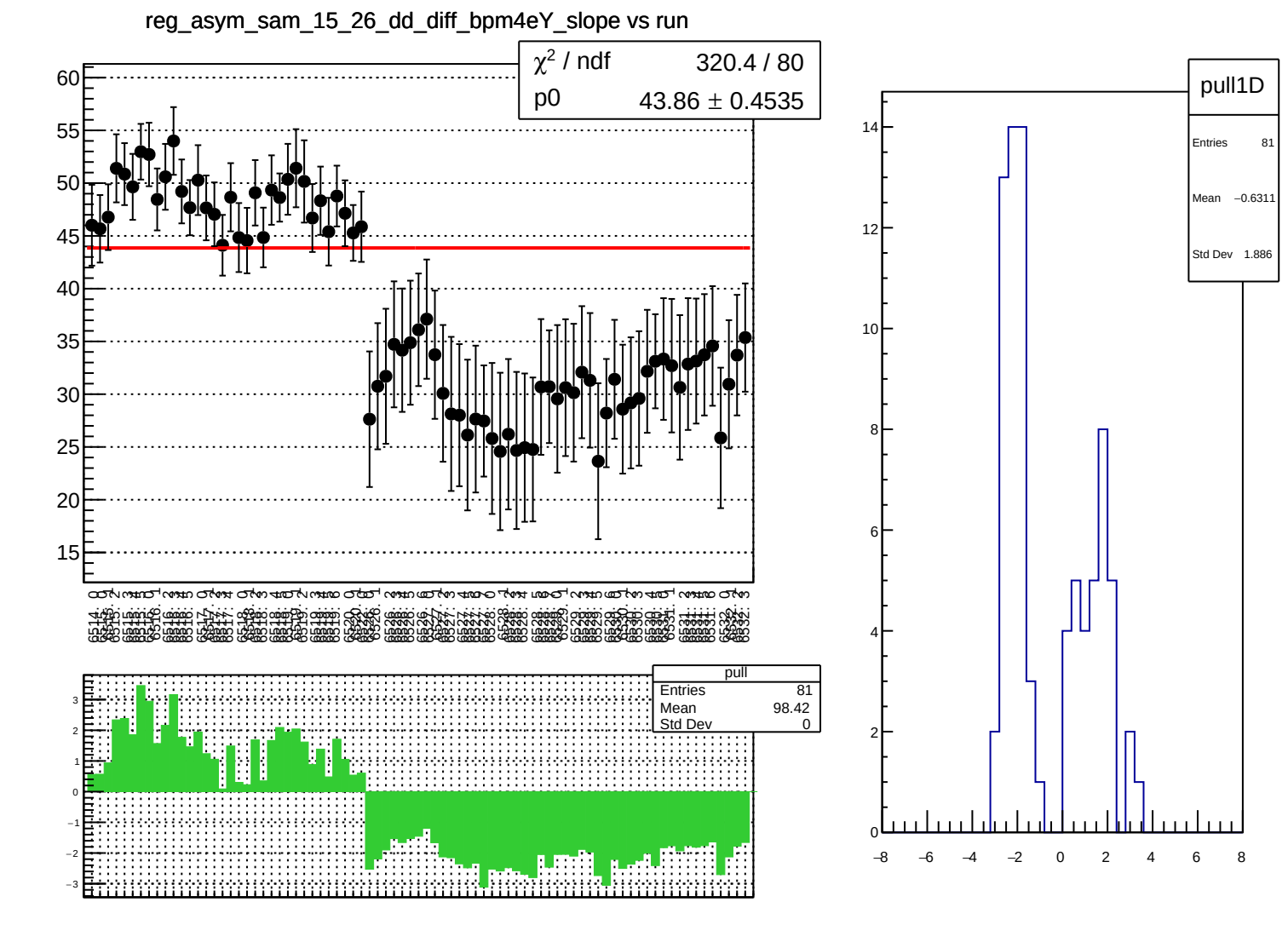

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 16.2 / 80
p0 2.054 ± 0.4043
pull
Entries 81
Mean −185.6
Std Dev 0

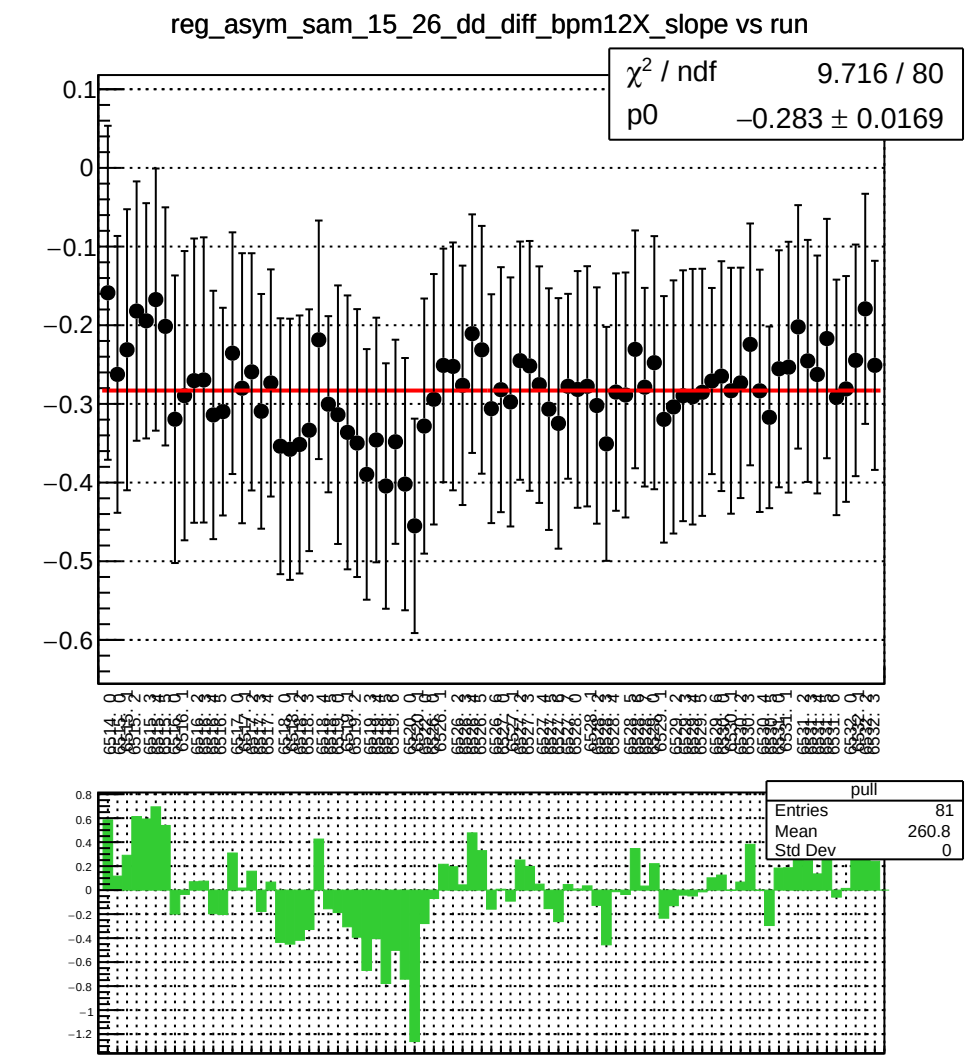

pull1D
Entries 81
Mean −0.007255
Std Dev 0.4471

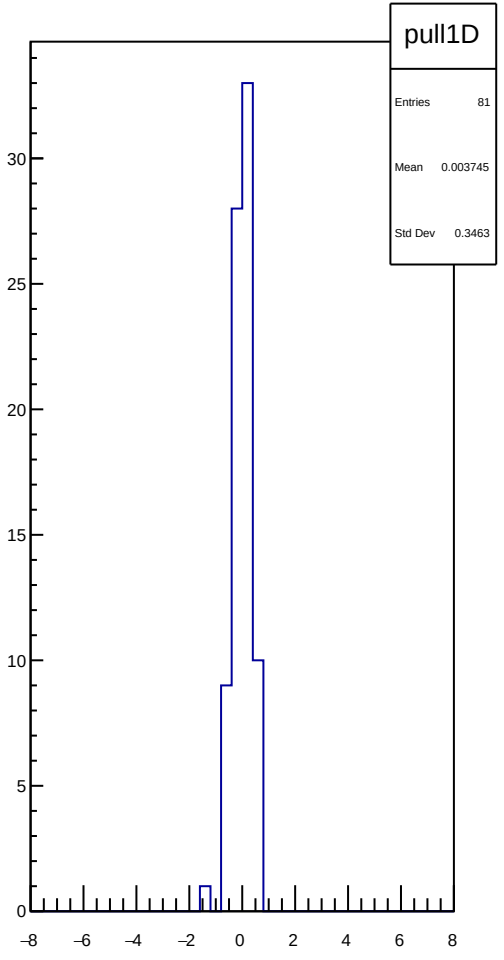

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 534.6 / 80
p0 1.941 ± 0.3958
pull
Entries 81
Mean 85.37
Std Dev 0
pull1D
Entries 81
Mean 1.051
Std Dev 2.344

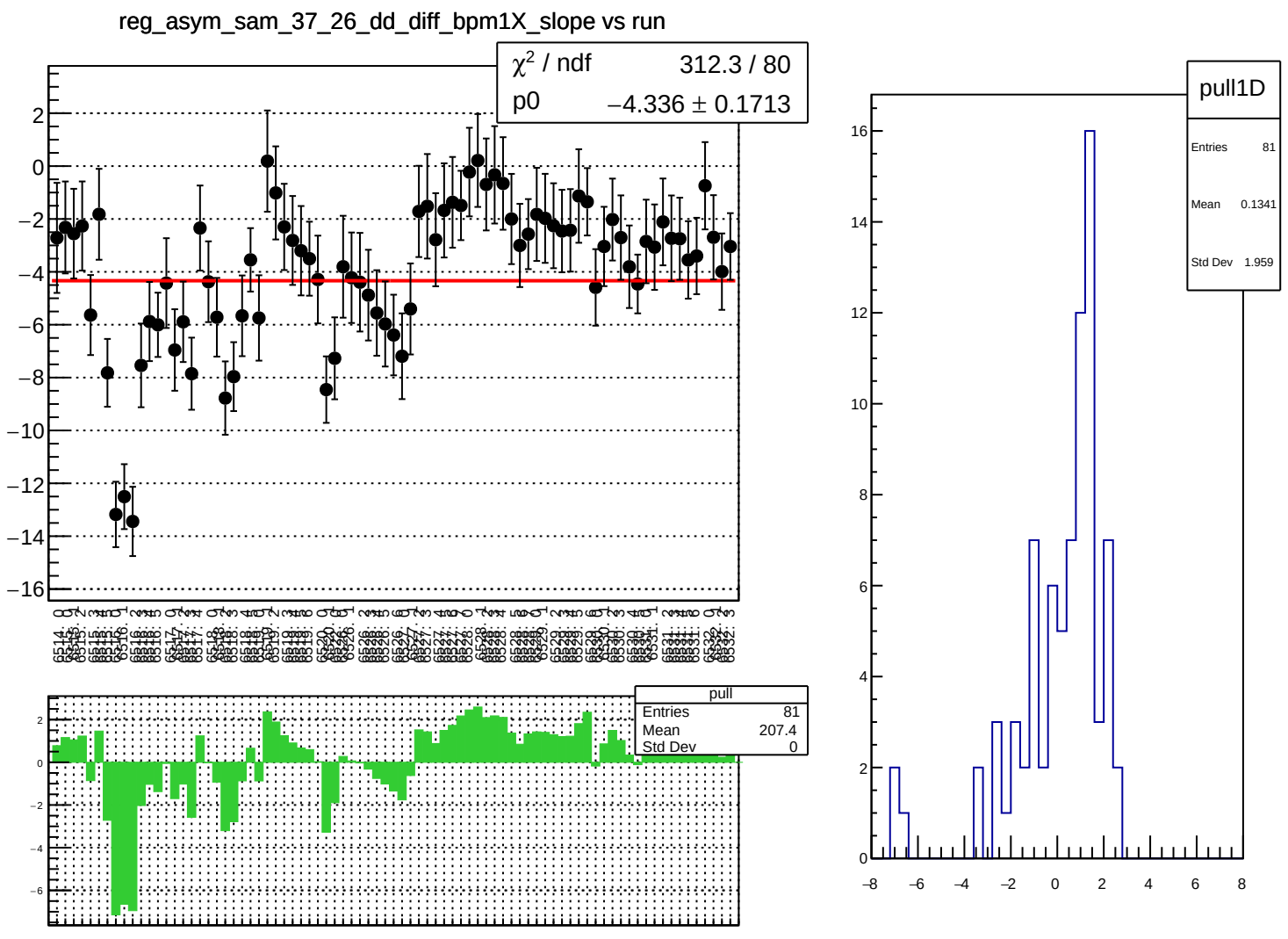

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.77 / 80
p0 32.15 ± 0.4219
pull
Entries 81
Mean 113.1
Std Dev 0

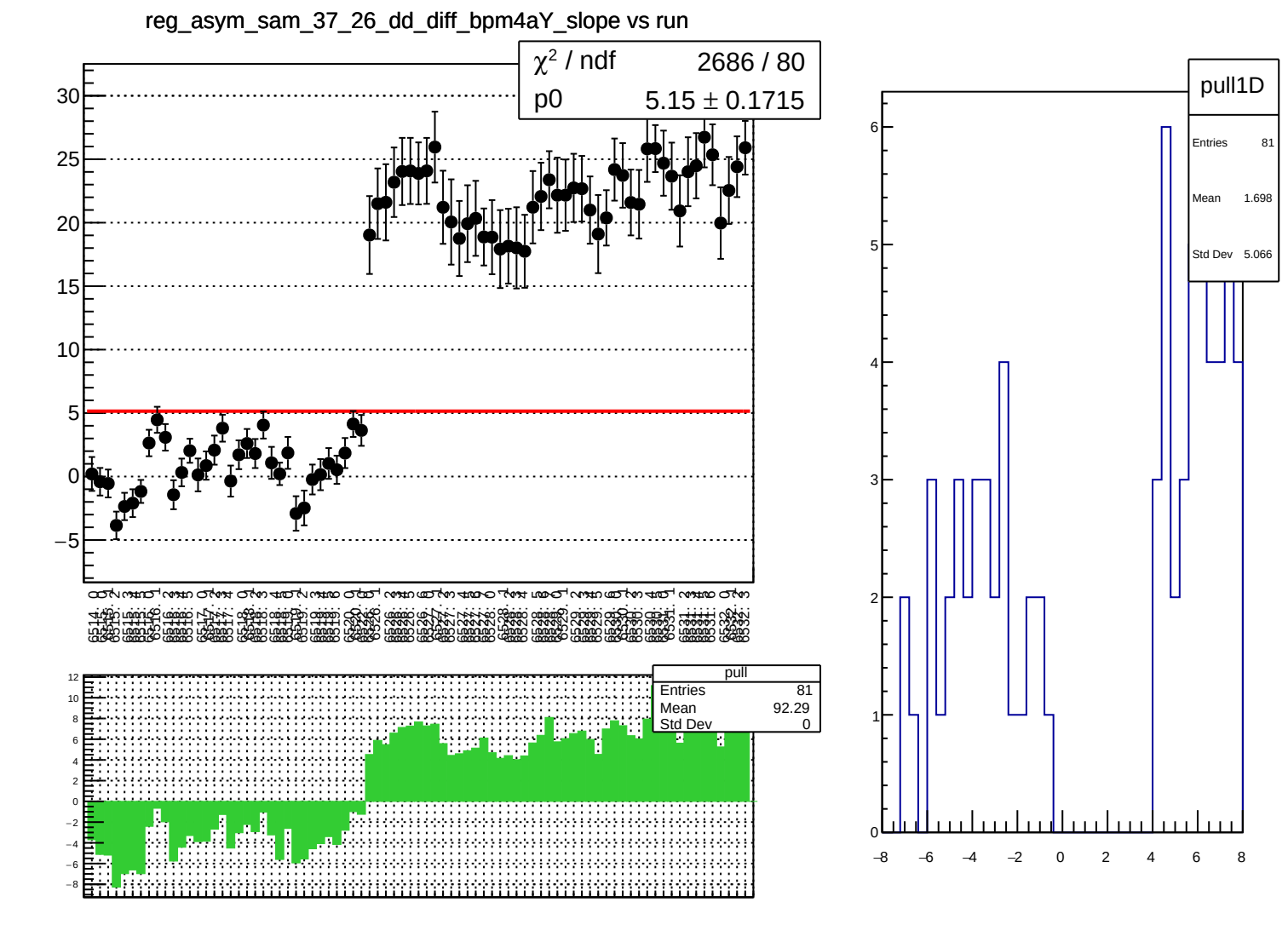

pull1D
Entries 81
Mean 0.01125
Std Dev 0.494

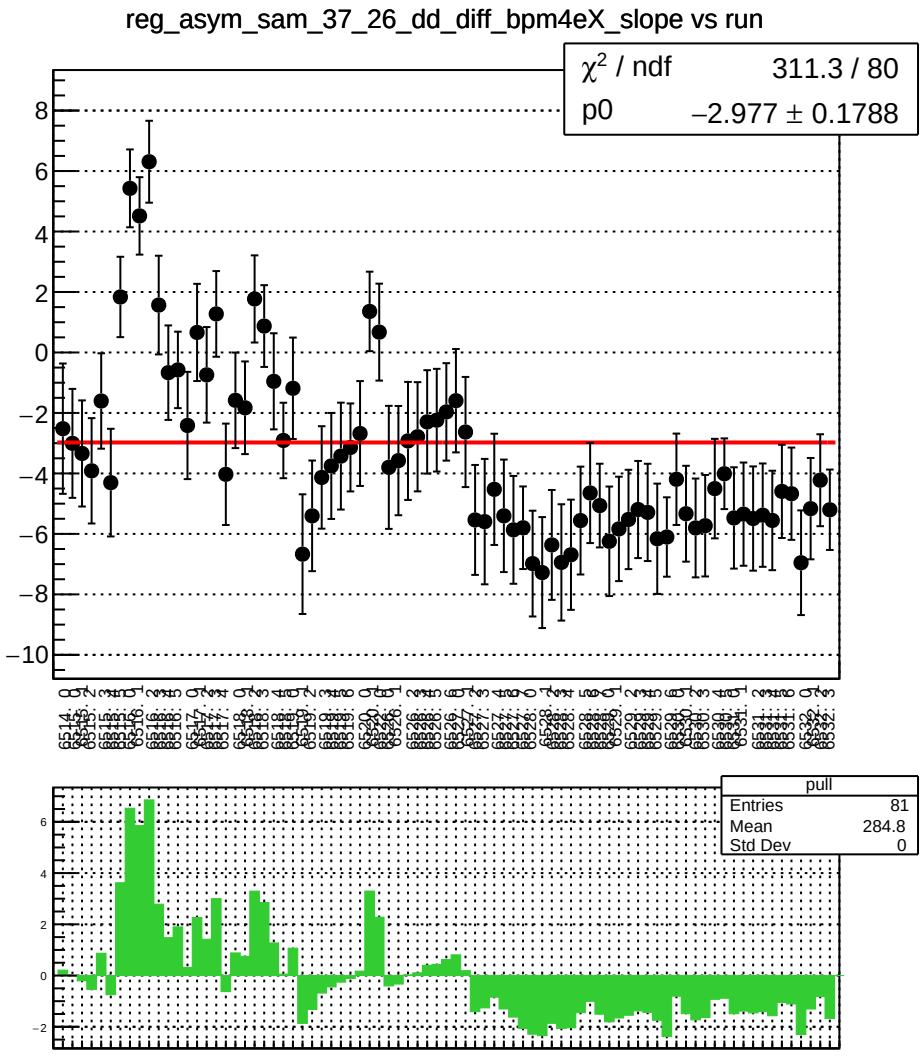

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 320.4 / 80
p0 43.86 ± 0.4535
pull
Entries 81
Mean 98.42
Std Dev 0
pull1D
Entries 81
Mean −0.6311
Std Dev 1.886

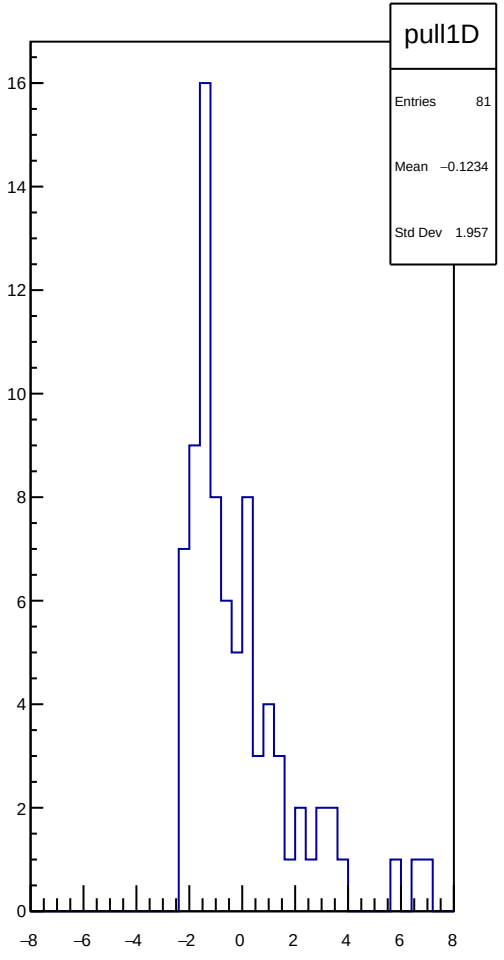

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 9.716 / 80
p0 −0.283 ± 0.0169
pull
Entries 81
Mean 260.8
Std Dev 0

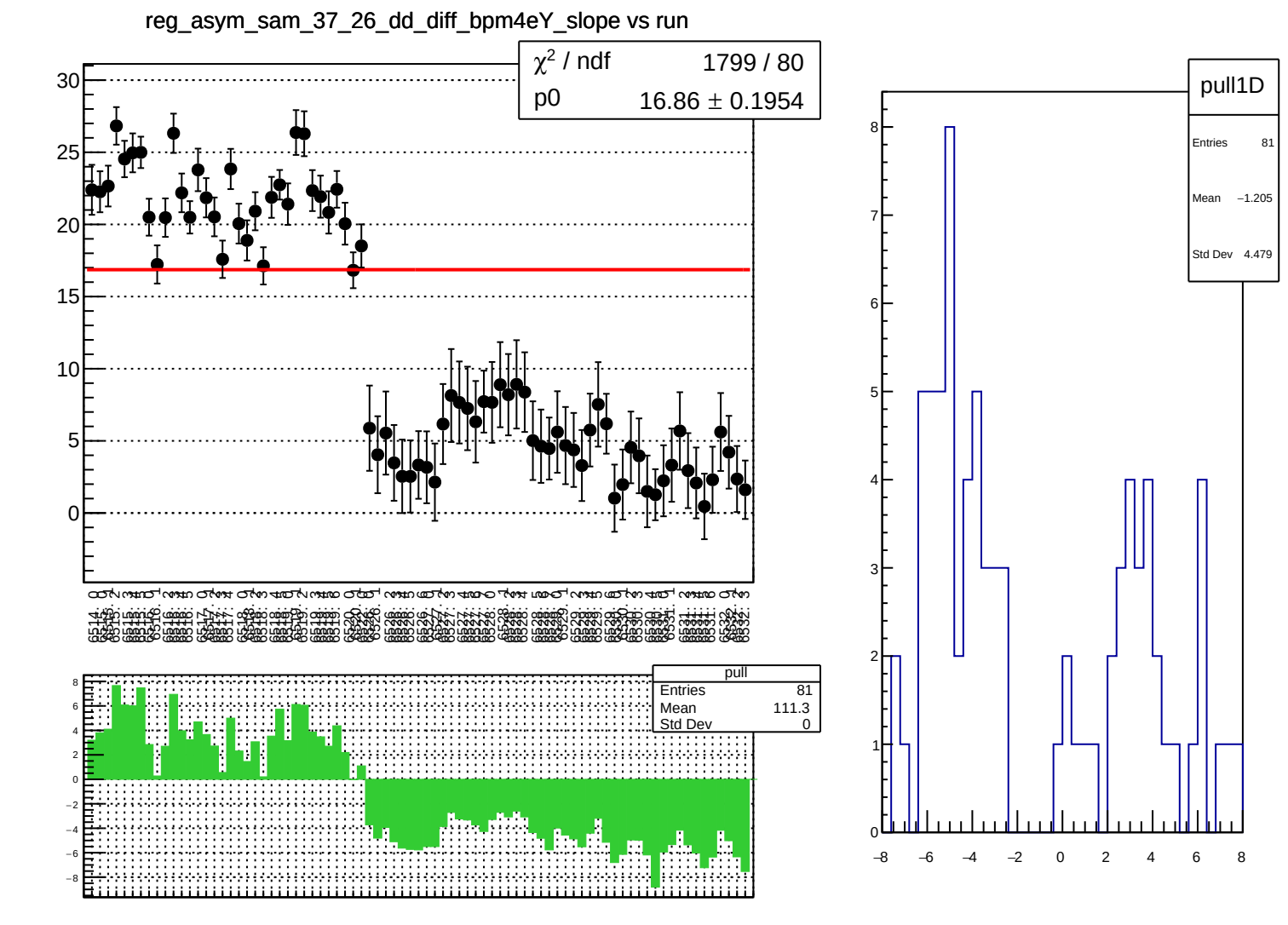

pull1D
Entries 81
Mean 0.003745
Std Dev 0.3463

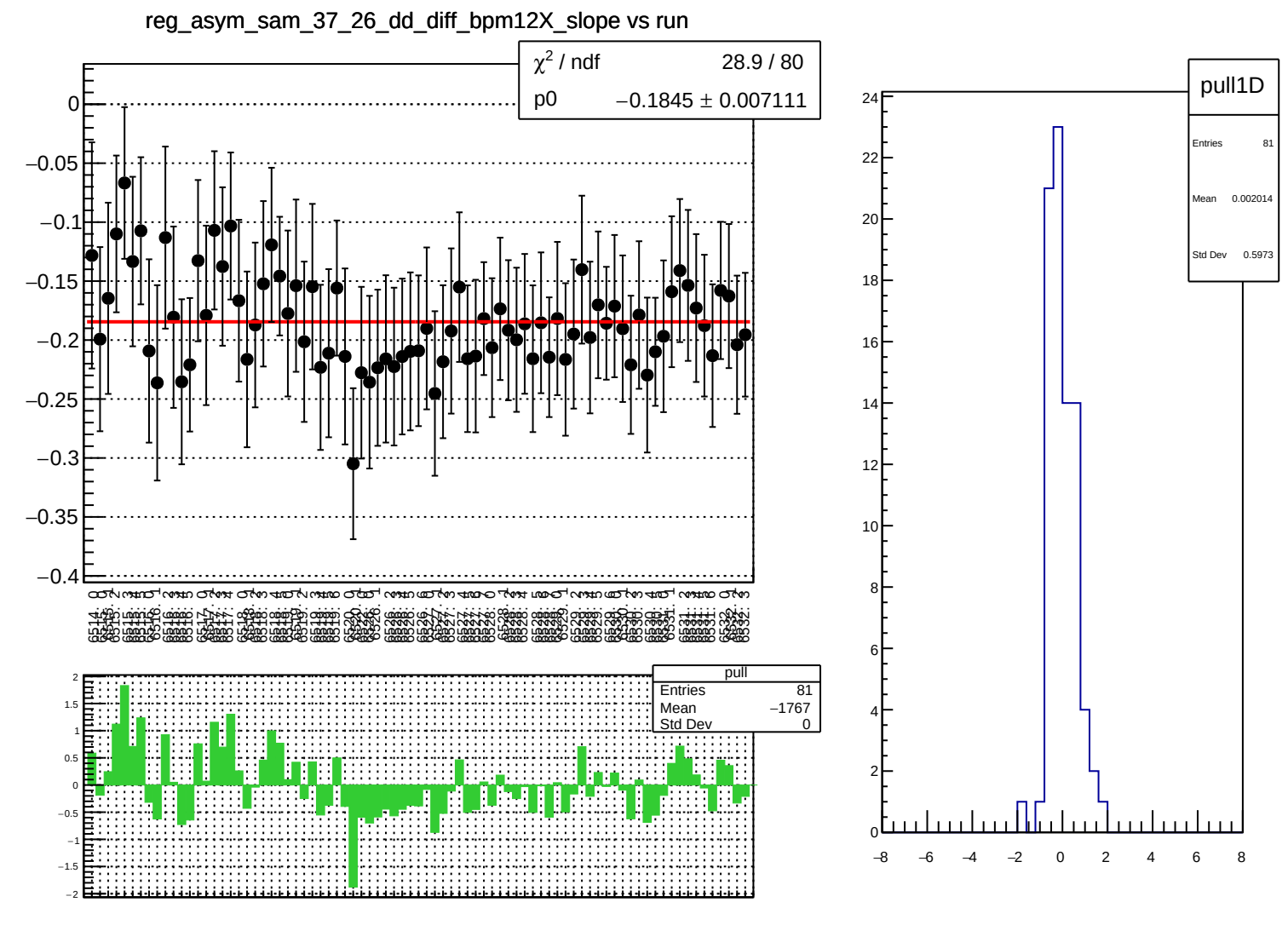

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 312.3 / 80
p0 −4.336 ± 0.1713
pull
Entries 81
Mean 207.4
Std Dev 0
pull1D
Entries 81
Mean 0.1341
Std Dev 1.959

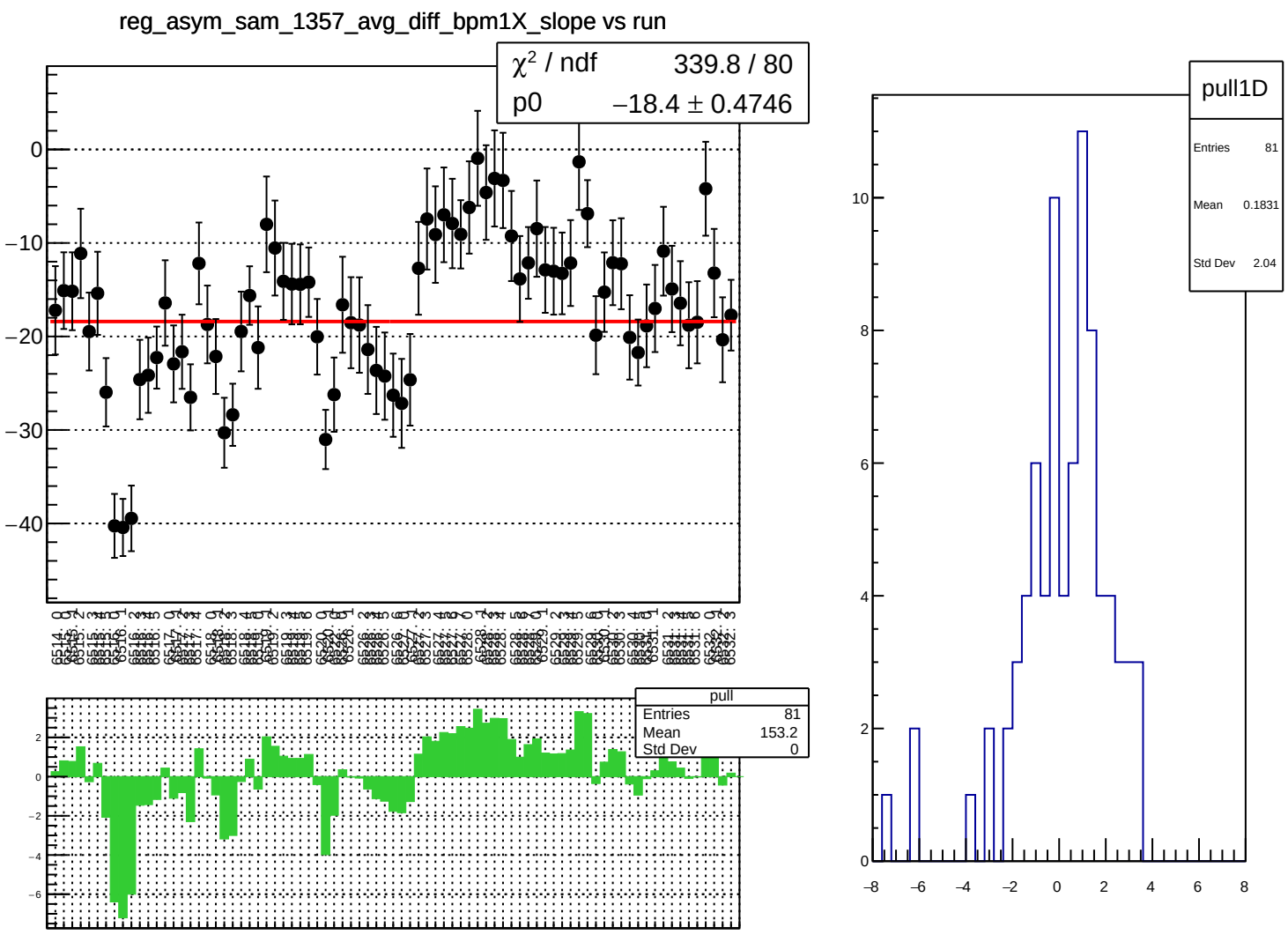

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 2686 / 80
p0 5.15 ± 0.1715
pull
Entries 81
Mean 92.29
Std Dev 0
pull1D
Entries 81
Mean 1.698
Std Dev 5.066

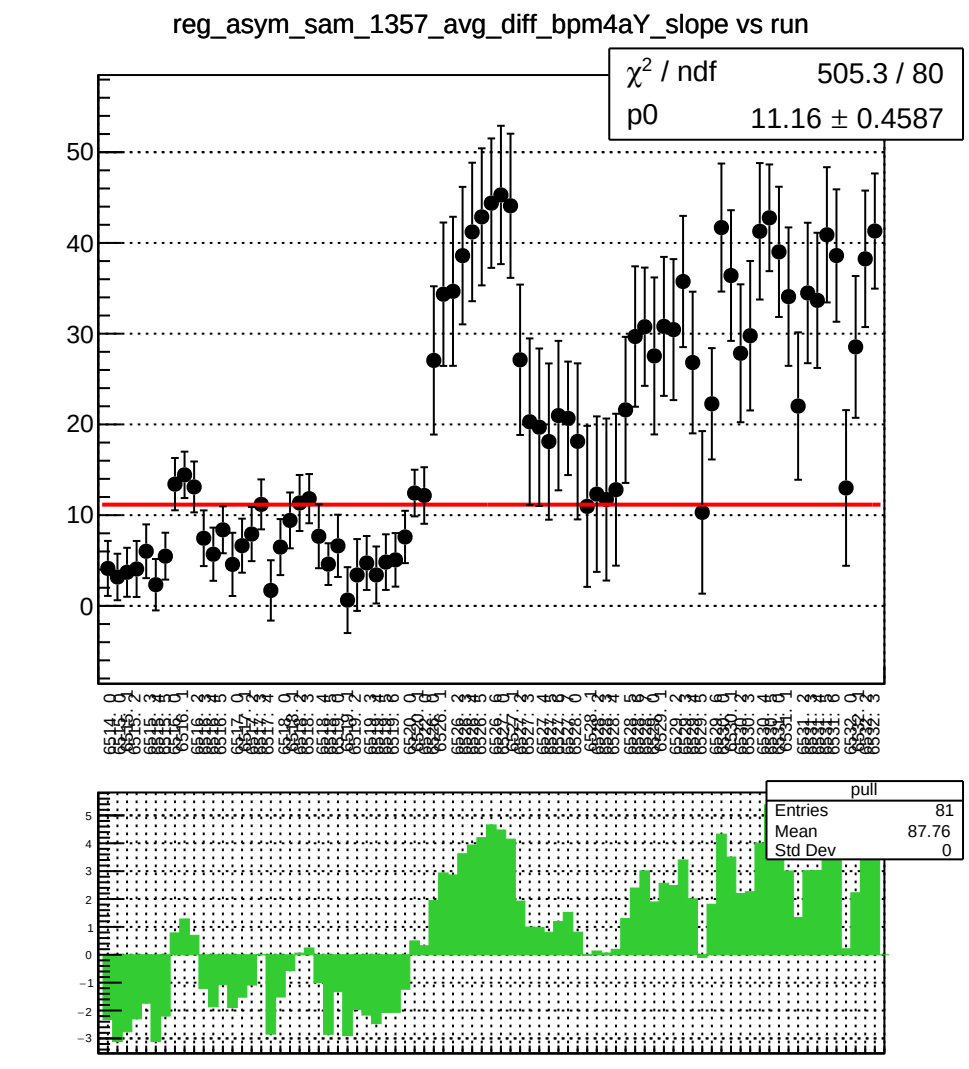

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 311.3 / 80
p0 −2.977 ± 0.1788
pull
Entries 81
Mean 284.8
Std Dev 0

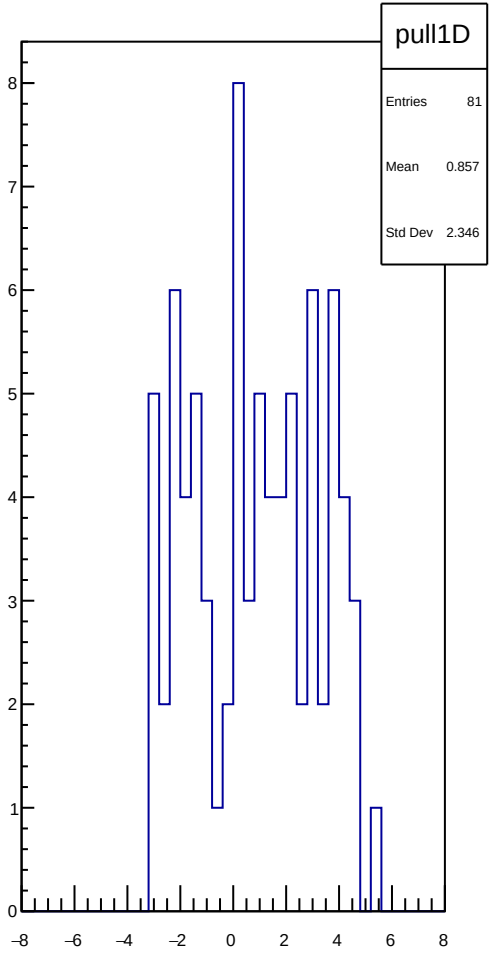

pull1D
Entries 81
Mean −0.1234
Std Dev 1.957

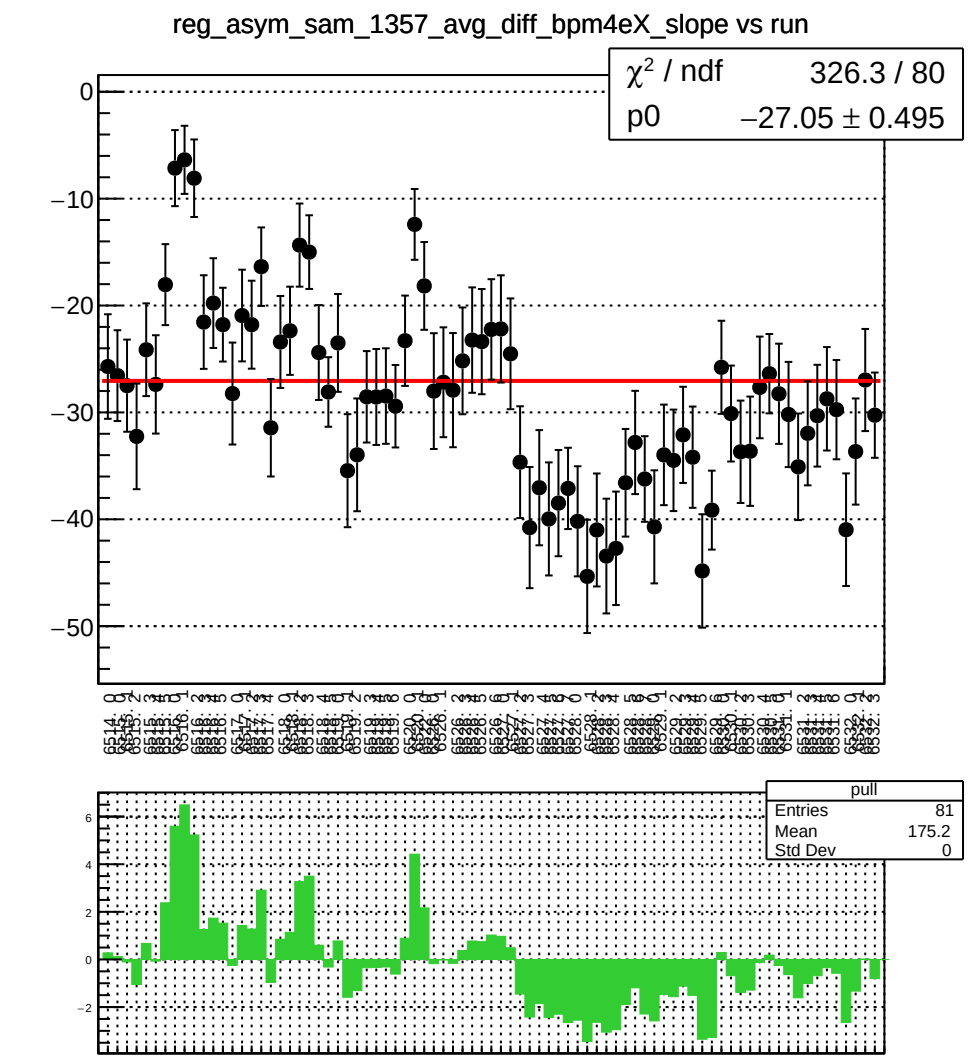

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 1799 / 80
p0 16.86 ± 0.1954
pull
Entries 81
Mean 111.3
Std Dev 0
pull1D
Entries 81
Mean −1.205
Std Dev 4.479

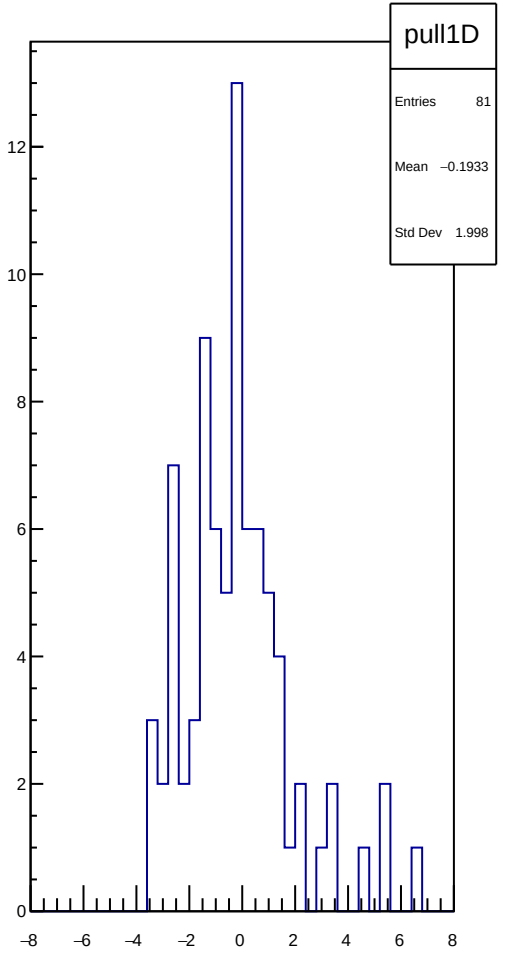

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 28.9 / 80
p0 −0.1845 ± 0.007111
pull
Entries 81
Mean −1767
Std Dev 0
pull1D
Entries 81
Mean 0.002014
Std Dev 0.5973

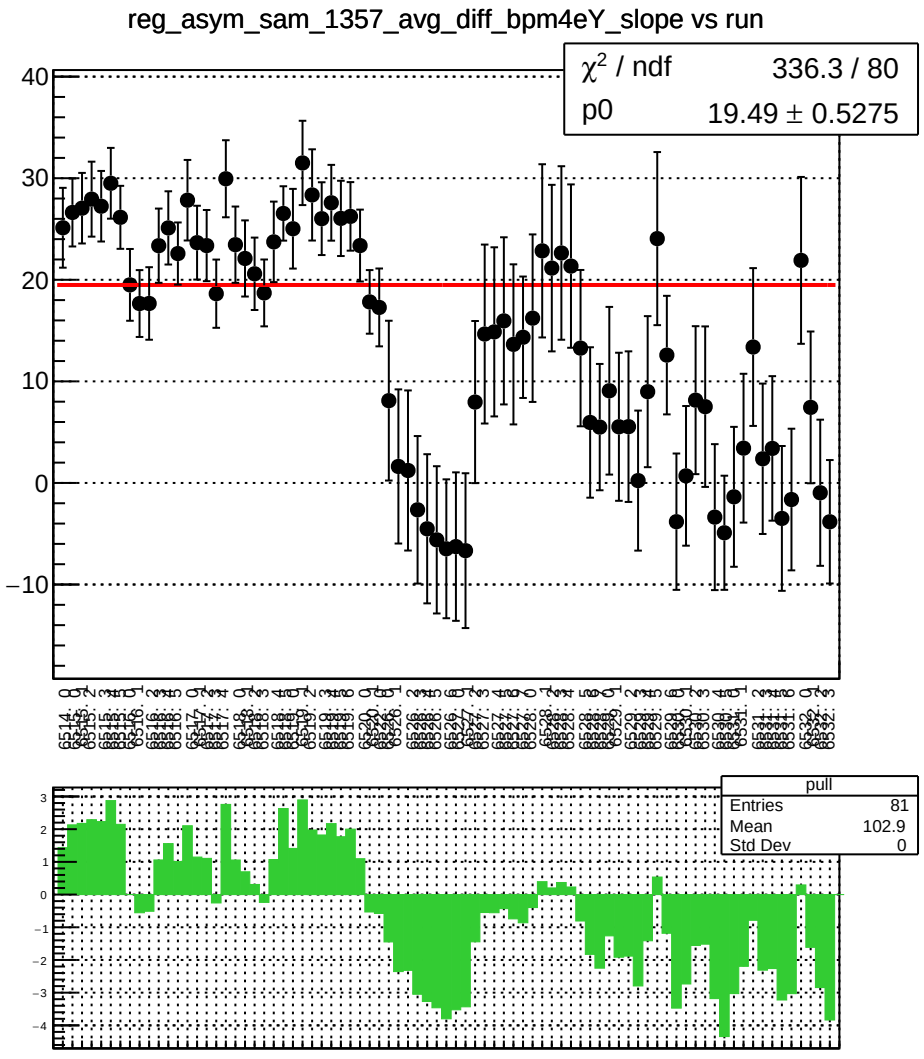

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 339.8 / 80
p0 −18.4 ± 0.4746
pull
Entries 81
Mean 153.2
Std Dev 0
pull1D
Entries 81
Mean 0.1831
Std Dev 2.04

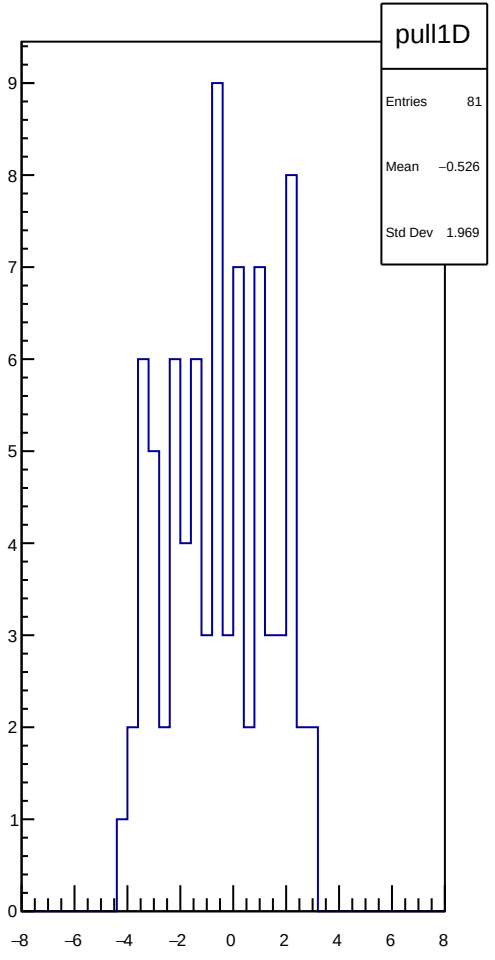

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 505.3 / 80
p0 11.16 ± 0.4587
pull
Entries 81
Mean 87.76
Std Dev 0

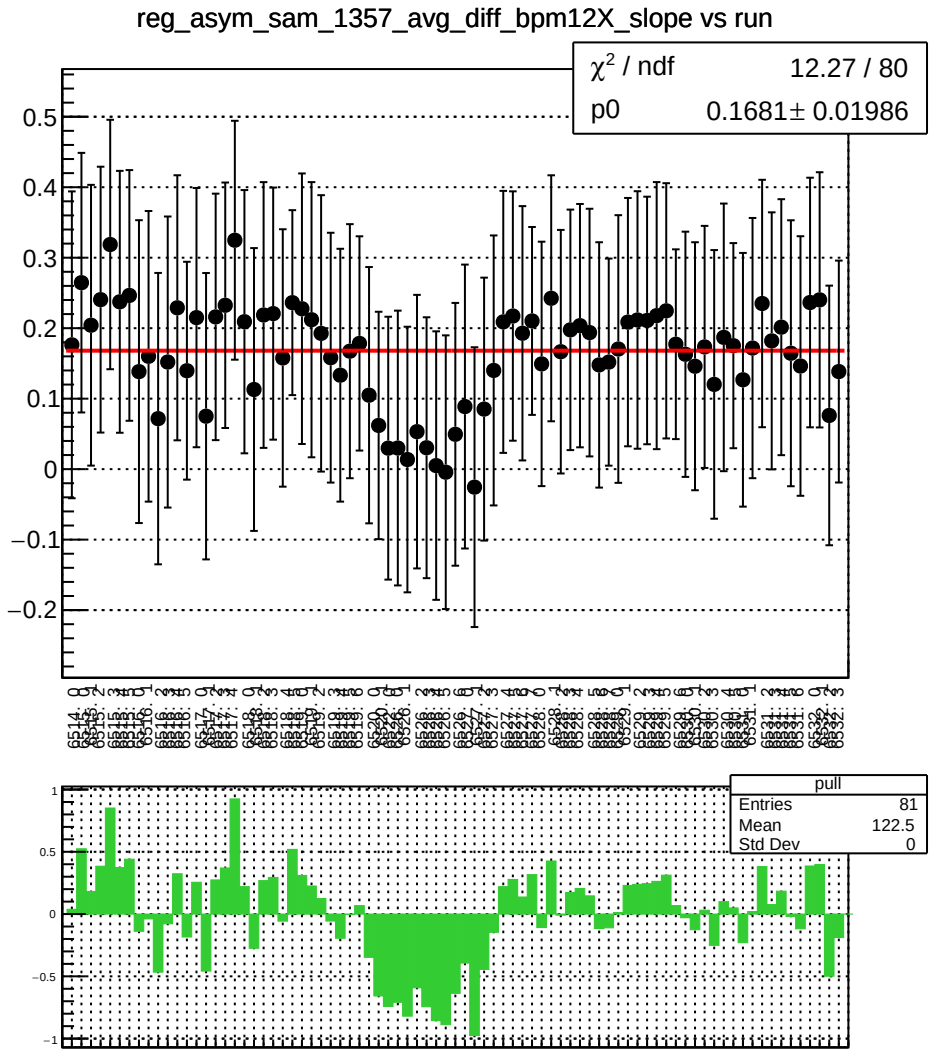

pull1D
Entries 81
Mean 0.857
Std Dev 2.346

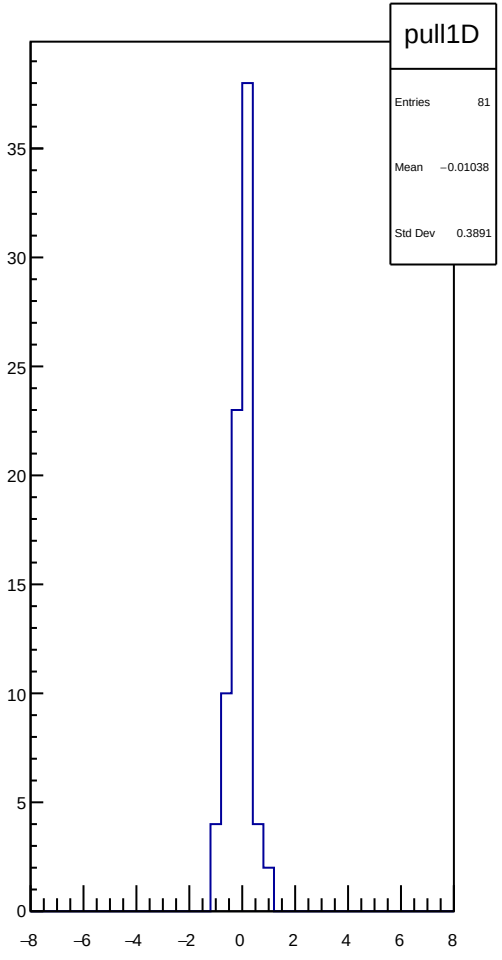

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 326.3 / 80
p0 −27.05 ± 0.495
pull
Entries 81
Mean 175.2
Std Dev 0

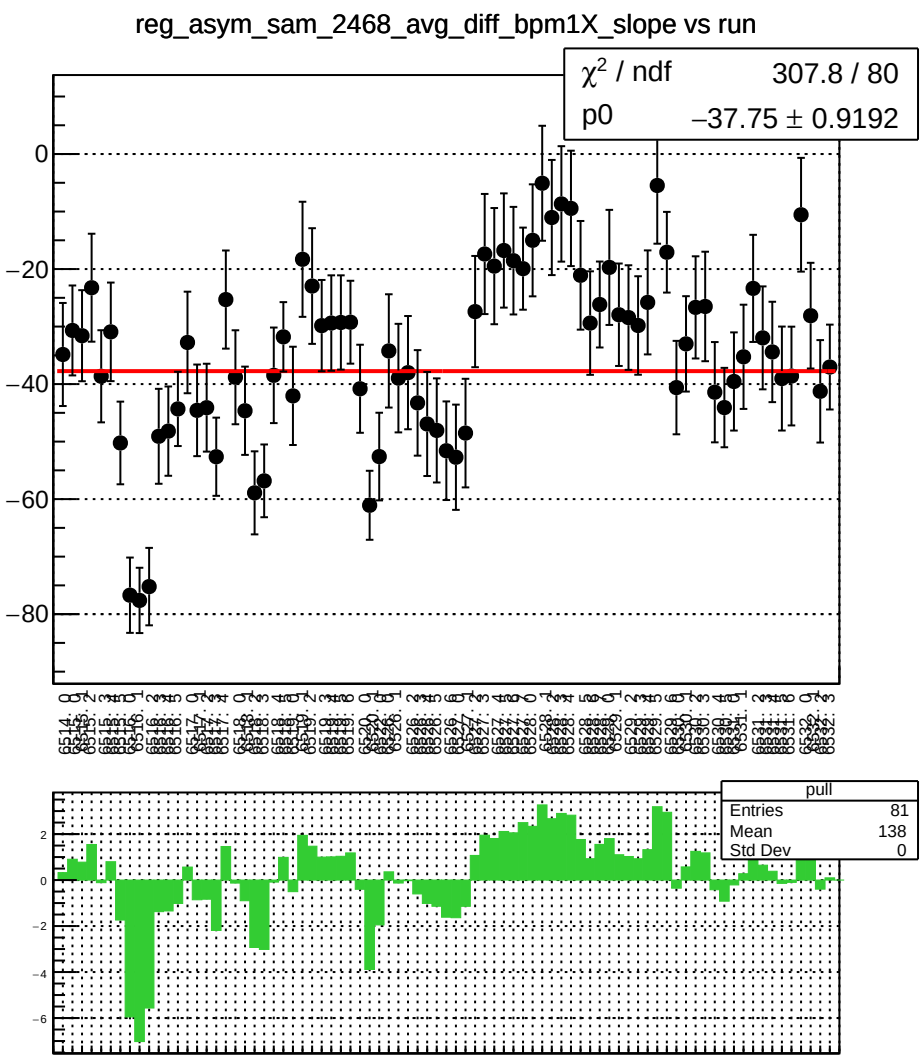

pull1D
Entries 81
Mean −0.1933
Std Dev 1.998

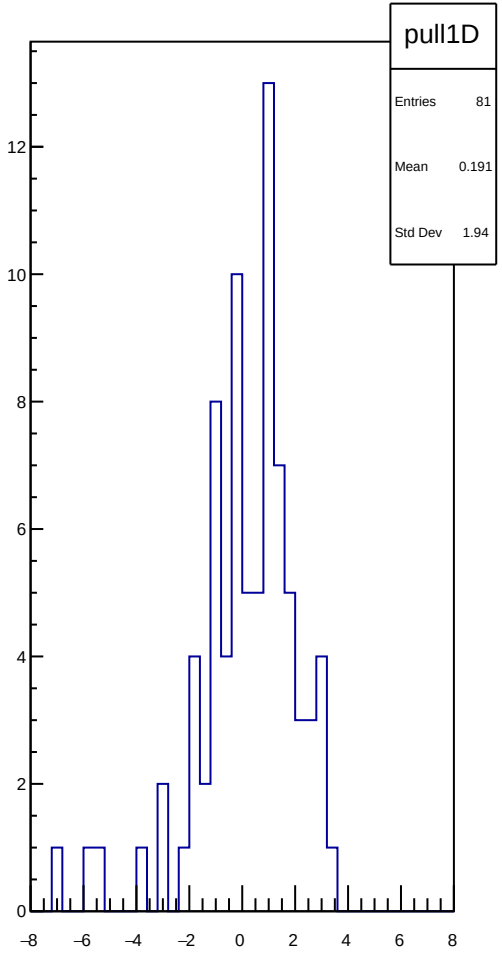

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 336.3 / 80
p0 19.49 ± 0.5275
pull
Entries 81
Mean 102.9
Std Dev 0

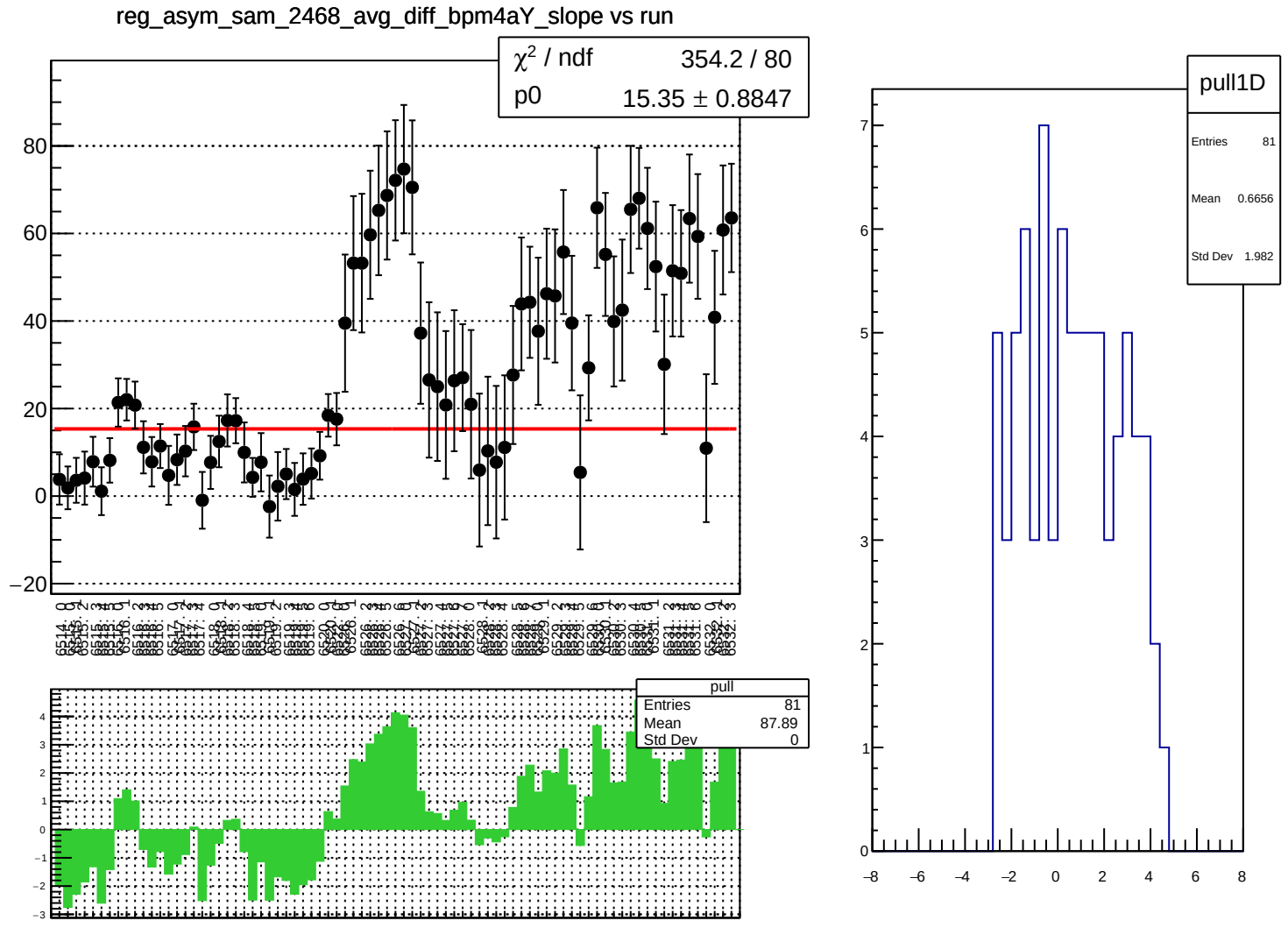

pull1D
Entries 81
Mean −0.526
Std Dev 1.969

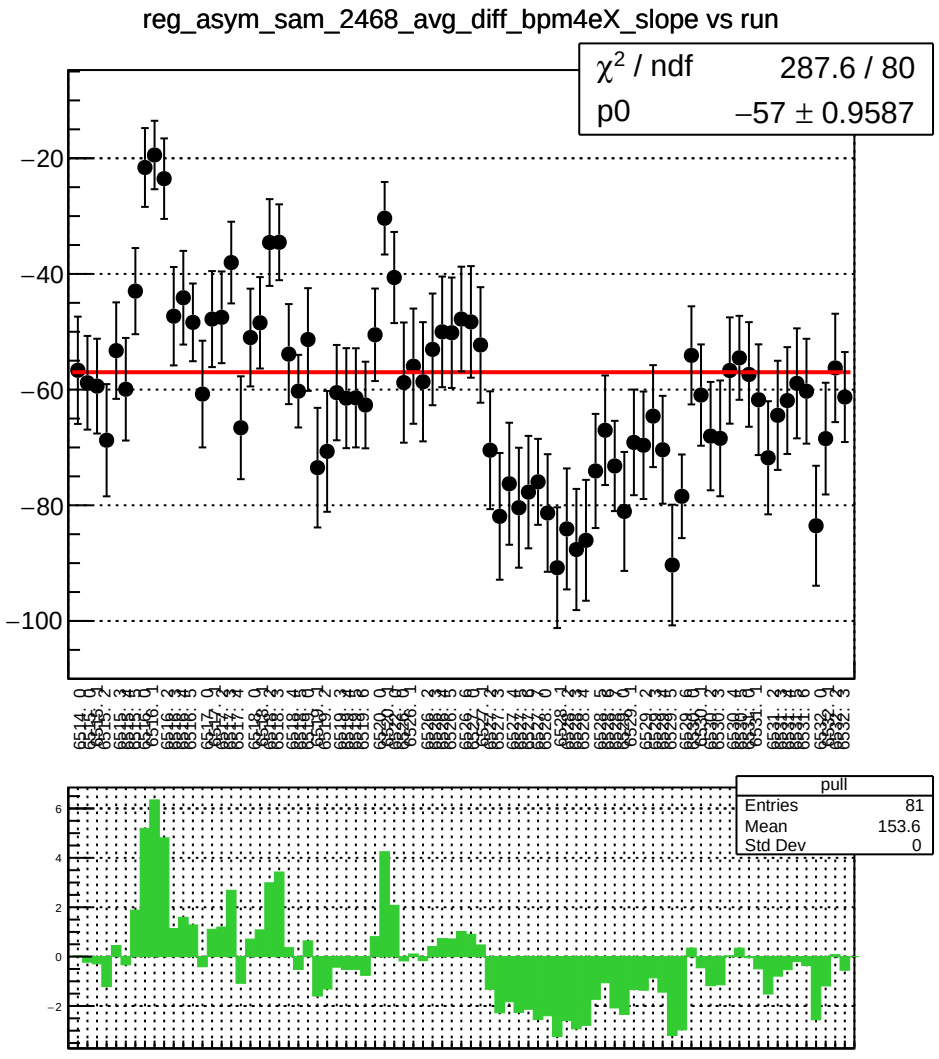

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 12.27 / 80
p0 0.1681± 0.01986
pull
Entries 81
Mean 122.5
Std Dev 0

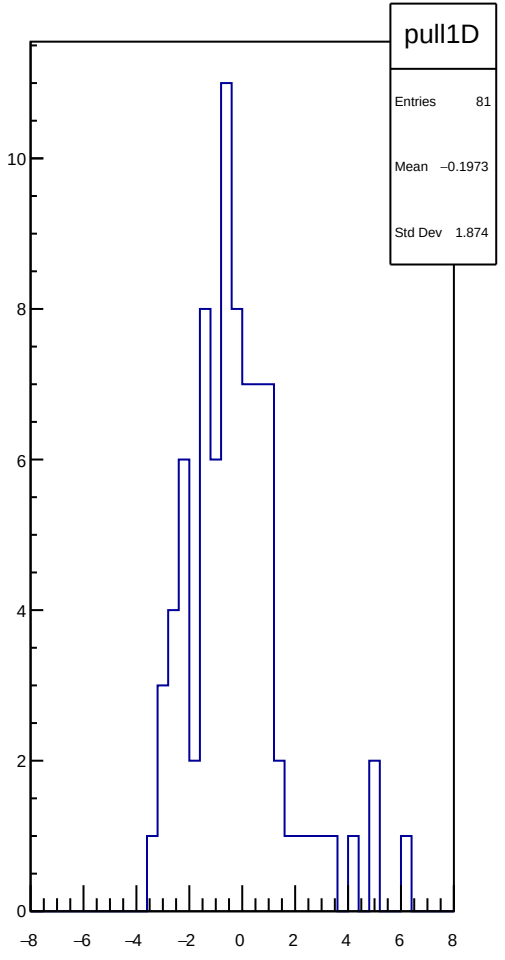

pull1D
Entries 81
Mean −0.01038
Std Dev 0.3891

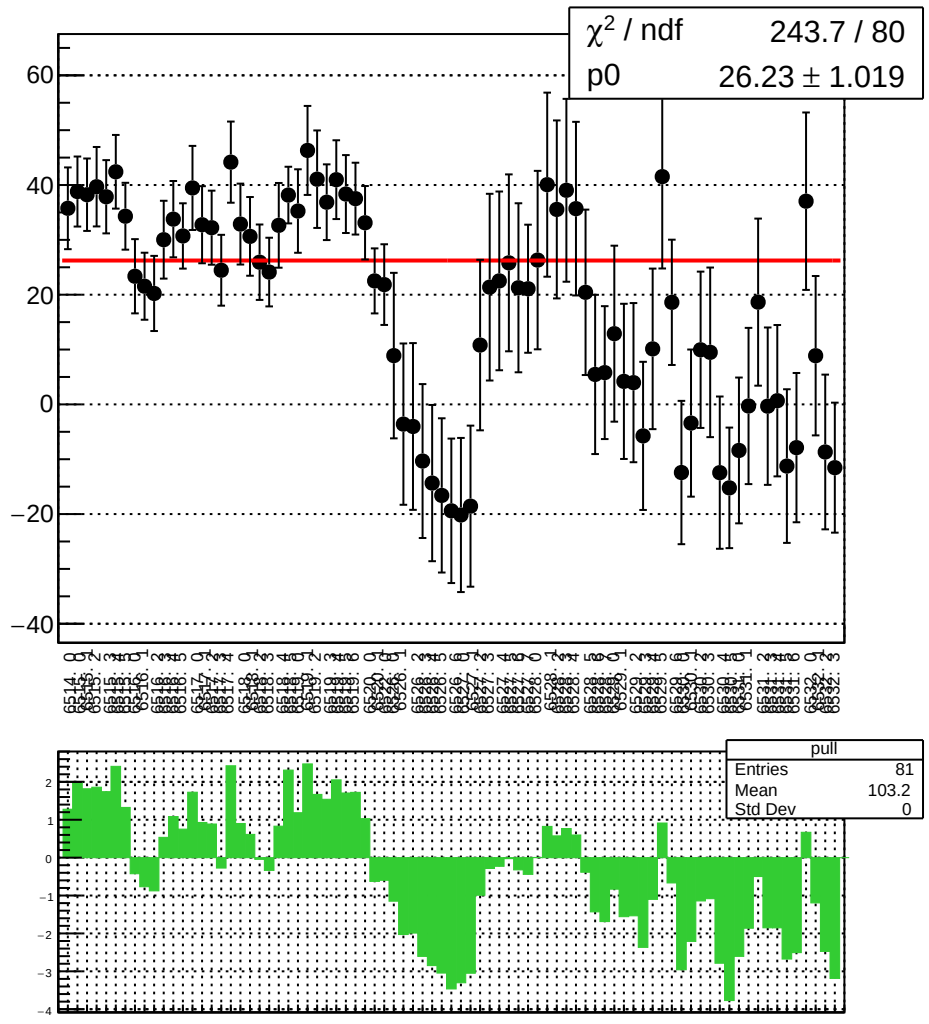

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 307.8 / 80
p0 −37.75 ± 0.9192
pull
Entries 81
Mean 138
Std Dev 0

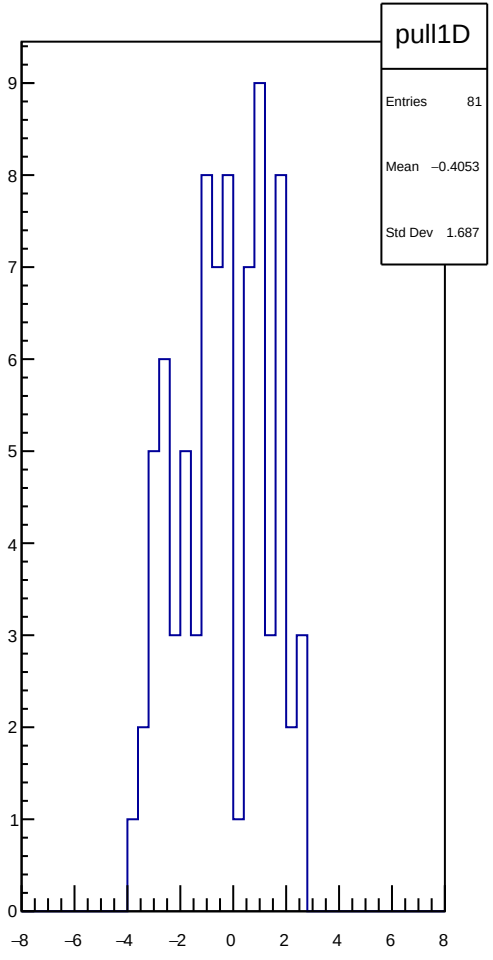

pull1D
Entries 81
Mean 0.191
Std Dev 1.94

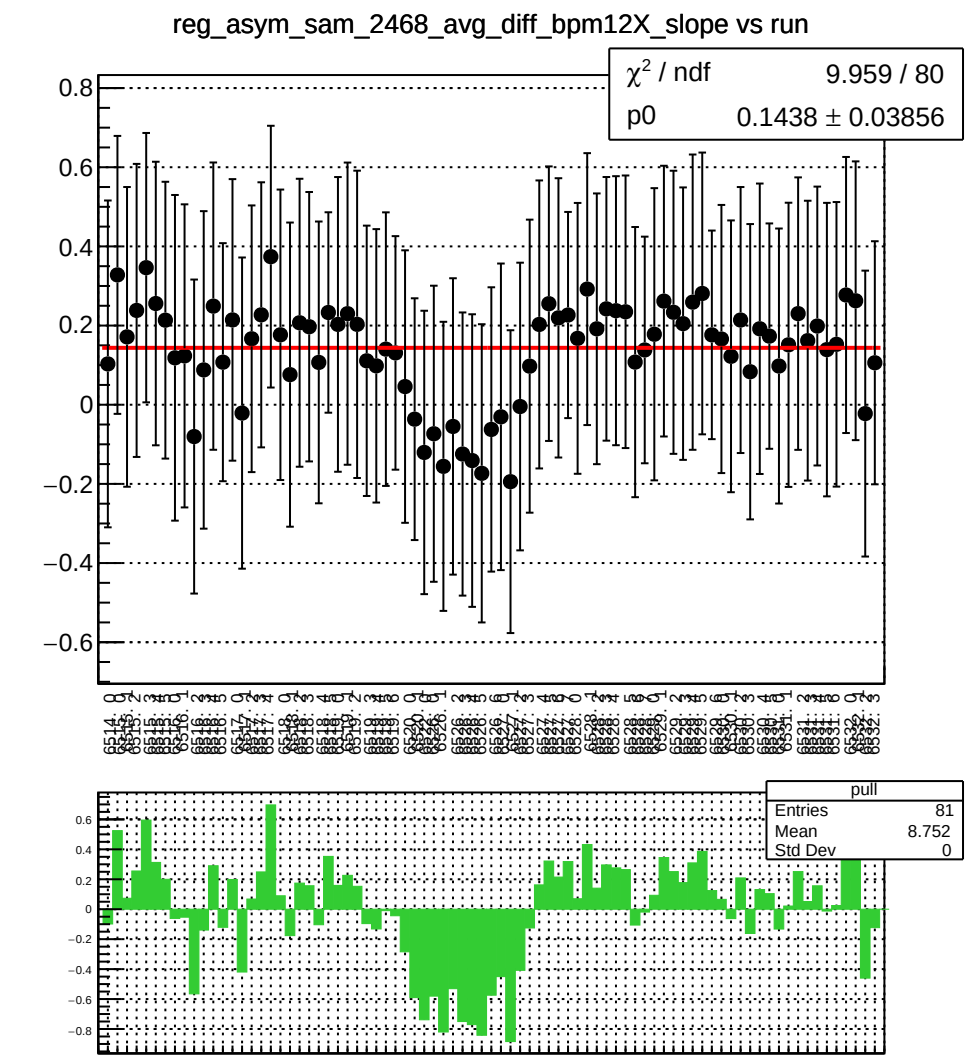

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 354.2 / 80
p0 15.35 ± 0.8847
pull
Entries 81
Mean 87.89
Std Dev 0
pull1D
Entries 81
Mean 0.6656
Std Dev 1.982

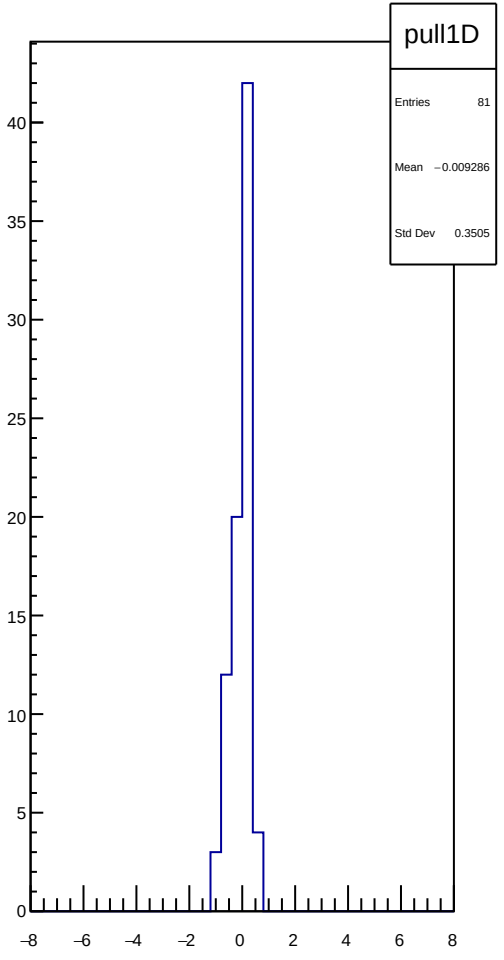

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 287.6 / 80
p0 −57 ± 0.9587
pull
Entries 81
Mean 153.6
Std Dev 0

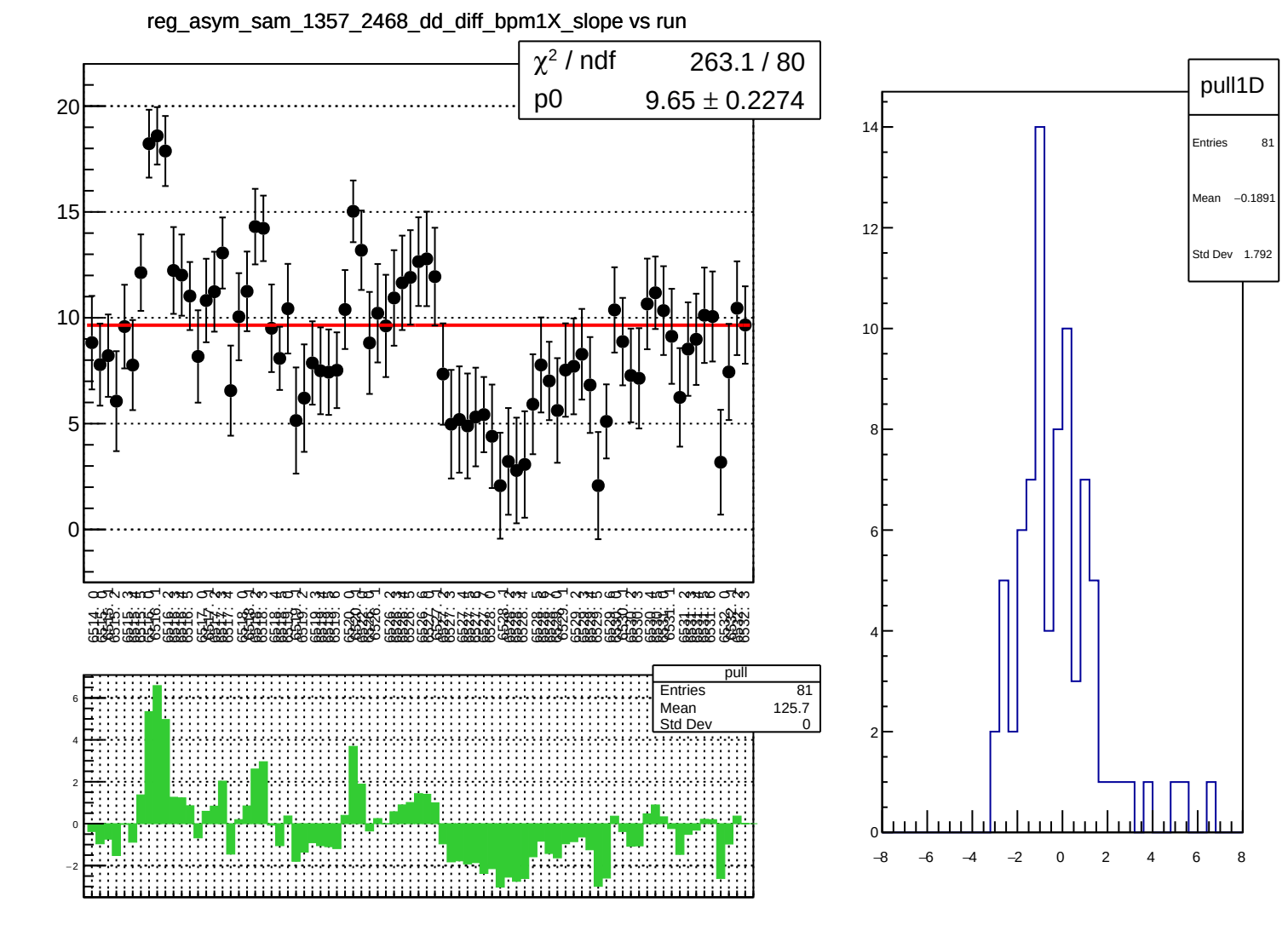

pull1D
Entries 81
Mean −0.1973
Std Dev 1.874

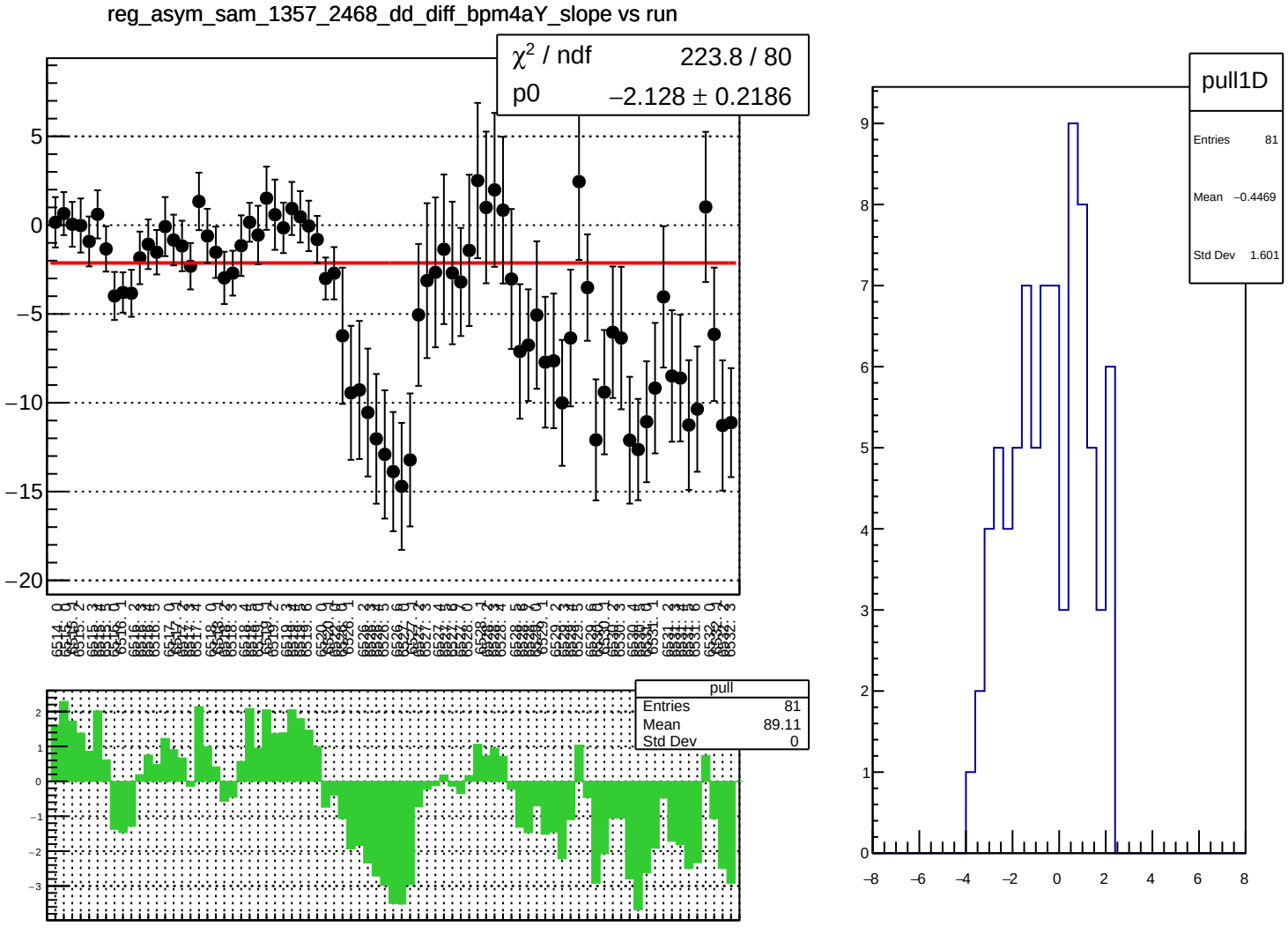

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 243.7 / 80
p0 26.23 ± 1.019
pull
Entries 81
Mean 103.2
Std Dev 0

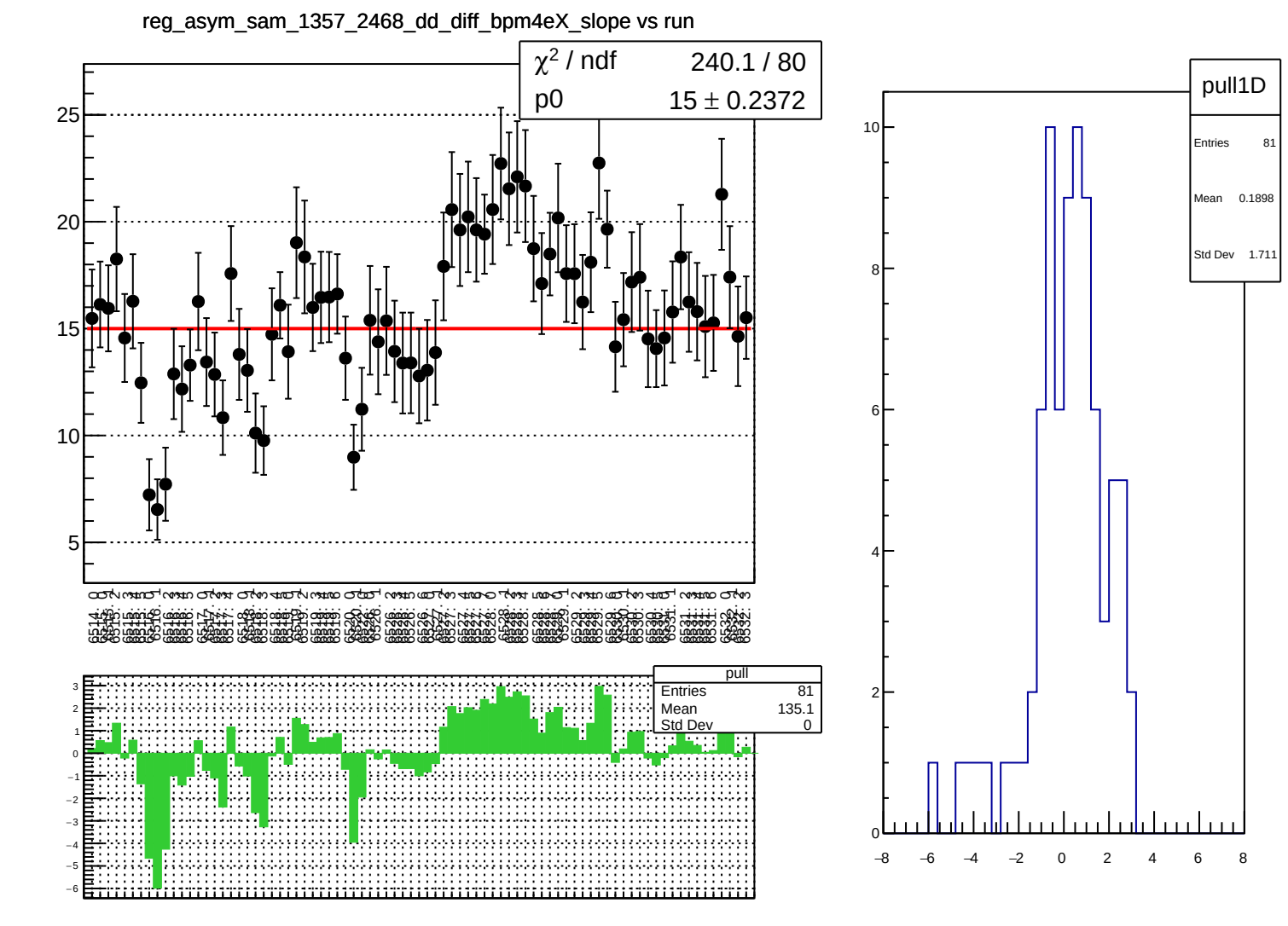

pull1D
Entries 81
Mean −0.4053
Std Dev 1.687

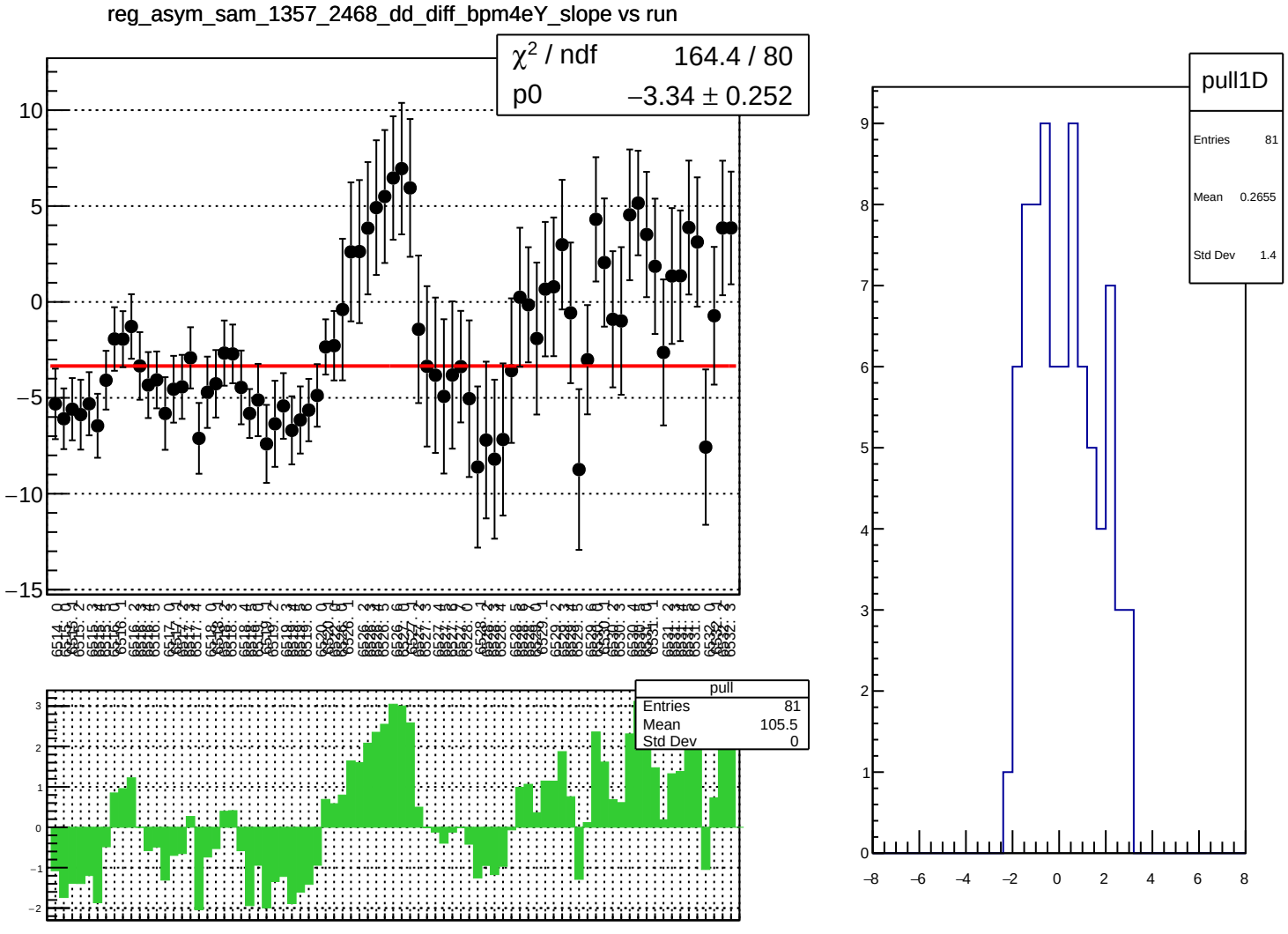

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 9.959 / 80
p0 0.1438 ± 0.03856
pull
Entries 81
Mean 8.752
Std Dev 0

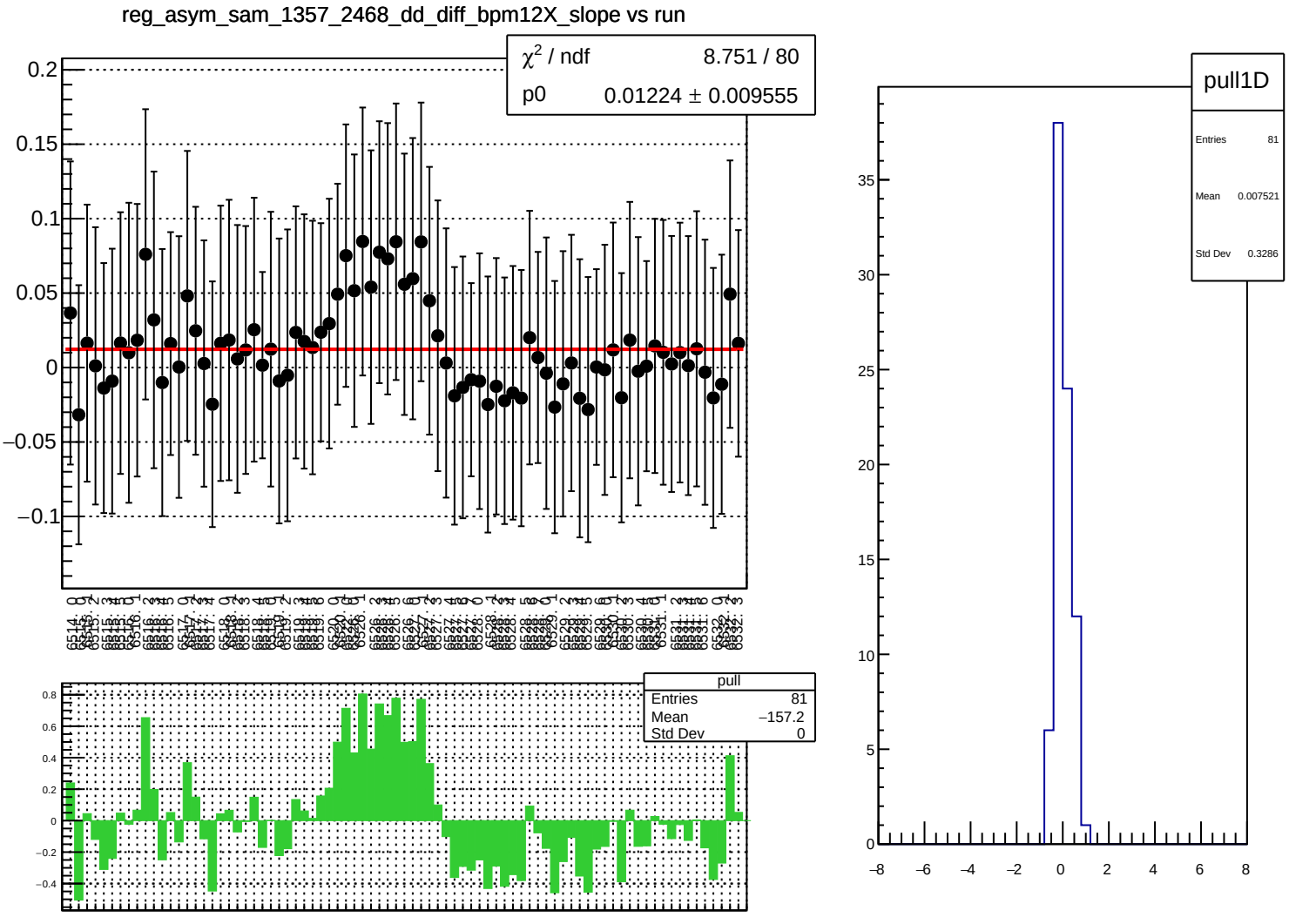

pull1D
Entries 81
Mean −0.009286
Std Dev 0.3505

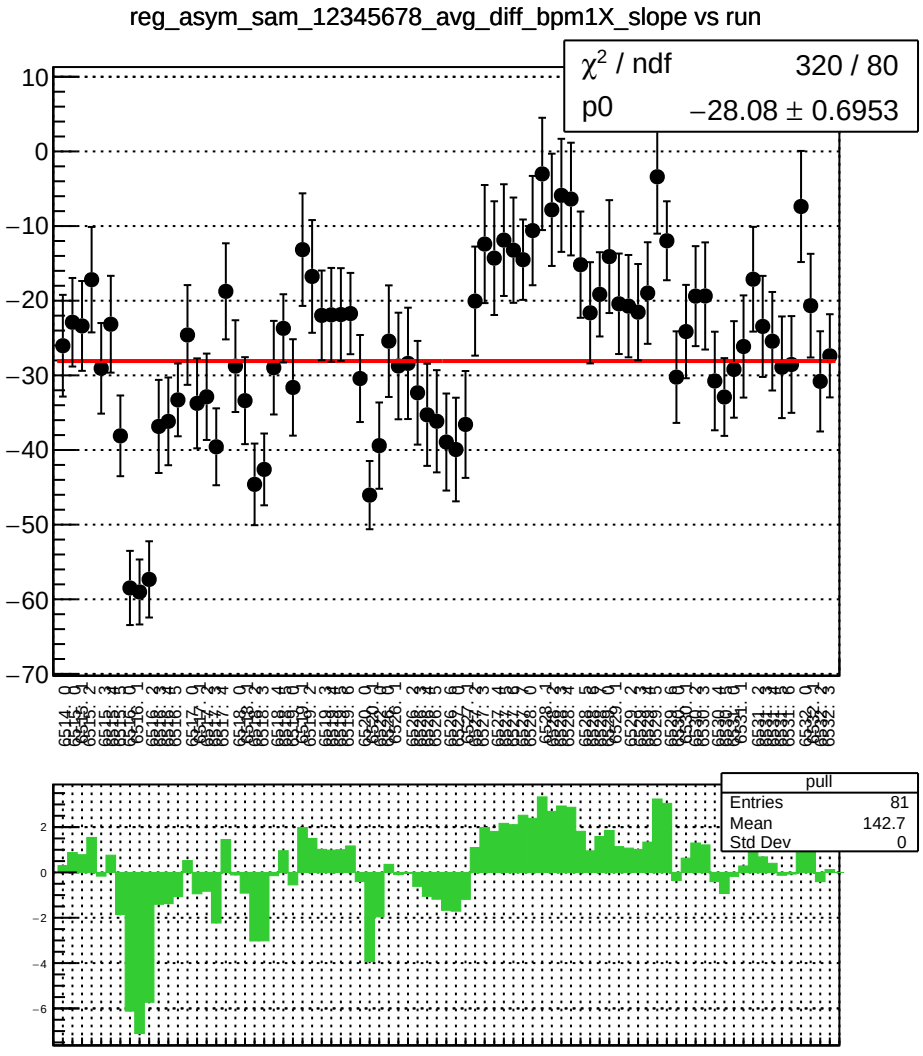

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 263.1 / 80
p0 9.65 ± 0.2274
pull
Entries 81
Mean 125.7
Std Dev 0
pull1D
Entries 81
Mean −0.1891
Std Dev 1.792

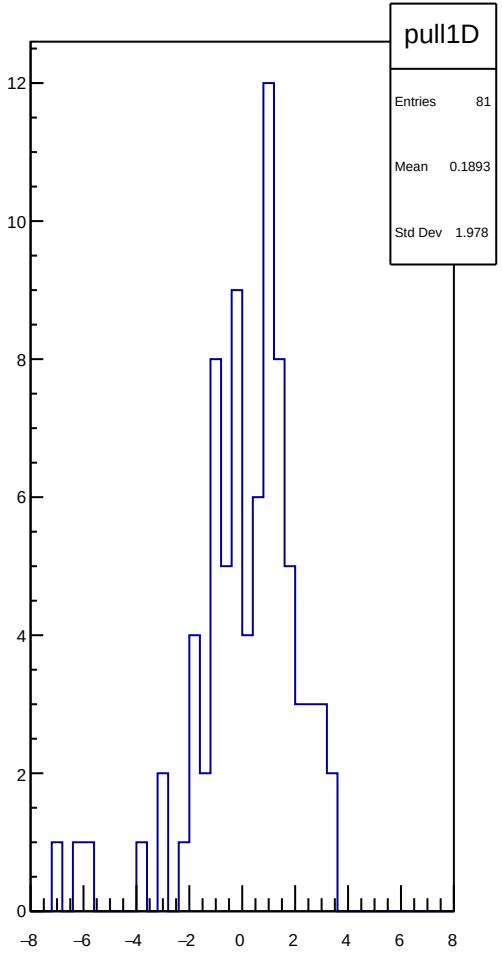

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 223.8 / 80
p0 −2.128 ± 0.2186
pull
Entries 81
Mean 89.11
Std Dev 0
pull1D
Entries 81
Mean −0.4469
Std Dev 1.601

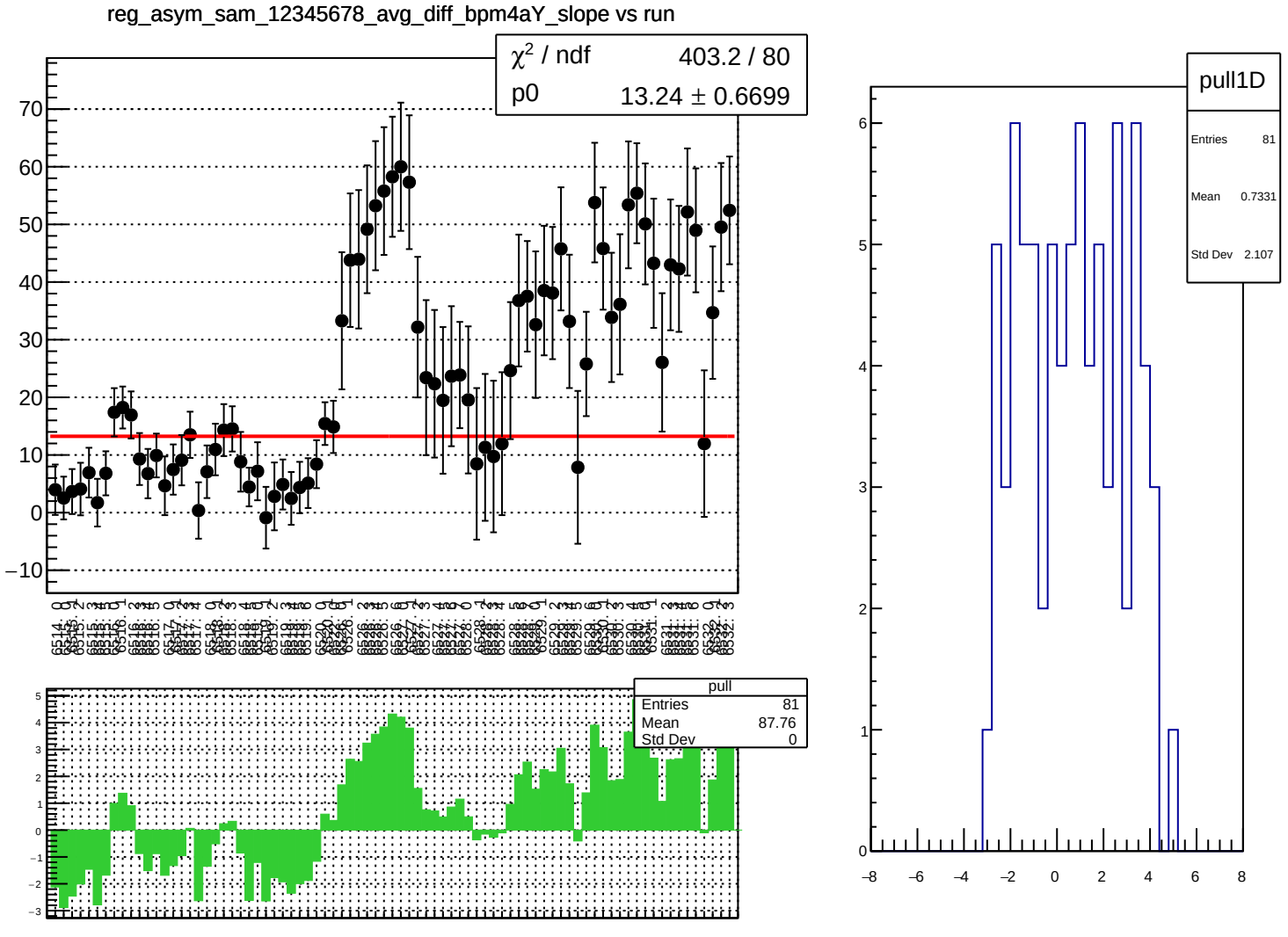

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 240.1 / 80
p0 15 ± 0.2372
pull
Entries 81
Mean 135.1
Std Dev 0
pull1D
Entries 81
Mean 0.1898
Std Dev 1.711

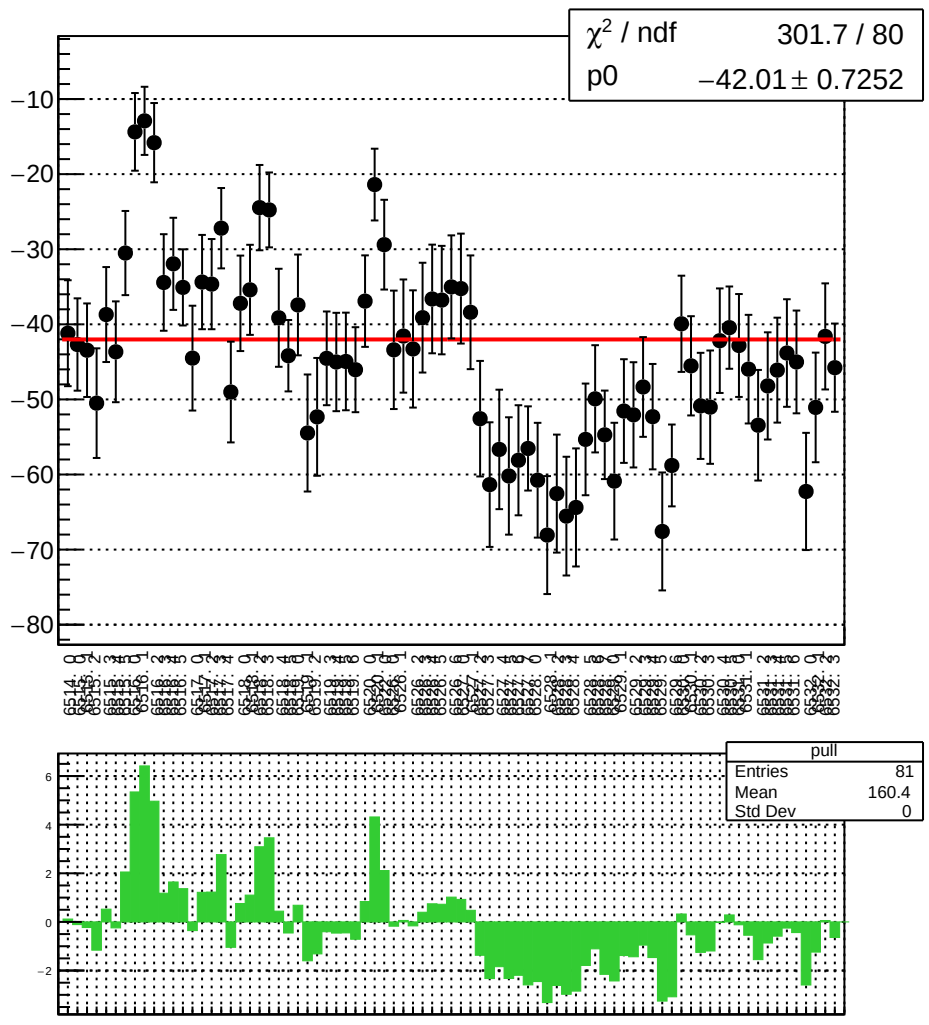

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 164.4 / 80
p0 −3.34 ± 0.252
pull
Entries 81
Mean 105.5
Std Dev 0
pull1D
Entries 81
Mean 0.2655
Std Dev 1.4

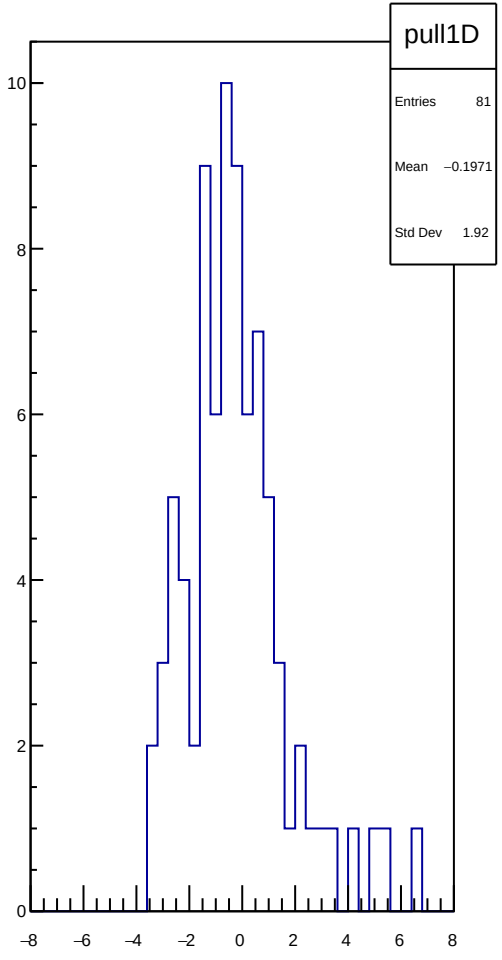

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 8.751 / 80
p0 0.01224 ± 0.009555
pull
Entries 81
Mean −157.2
Std Dev 0
pull1D
Entries 81
Mean 0.007521
Std Dev 0.3286

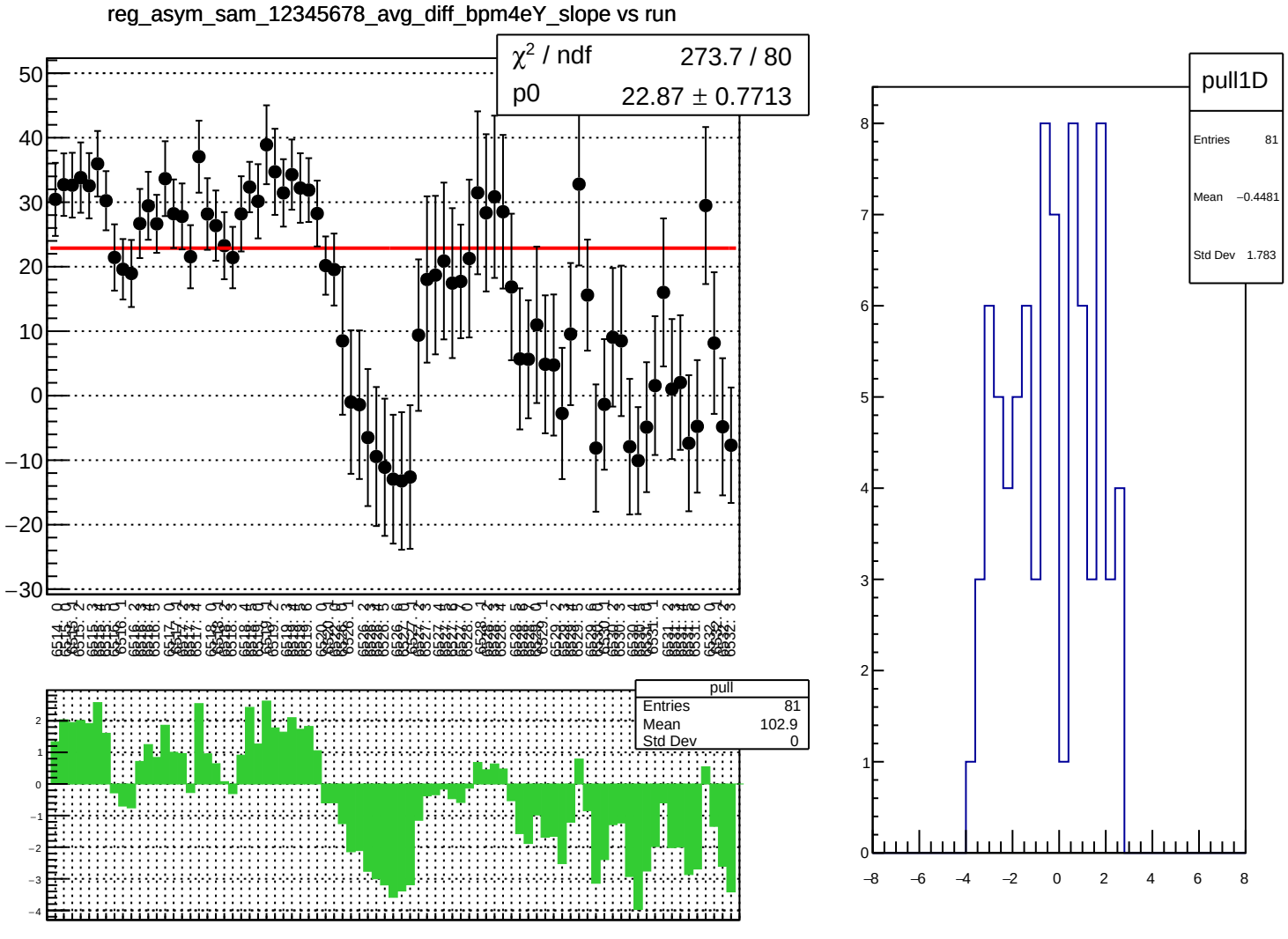

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 320 / 80
p0 −28.08 ± 0.6953
pull
Entries 81
Mean 142.7
Std Dev 0

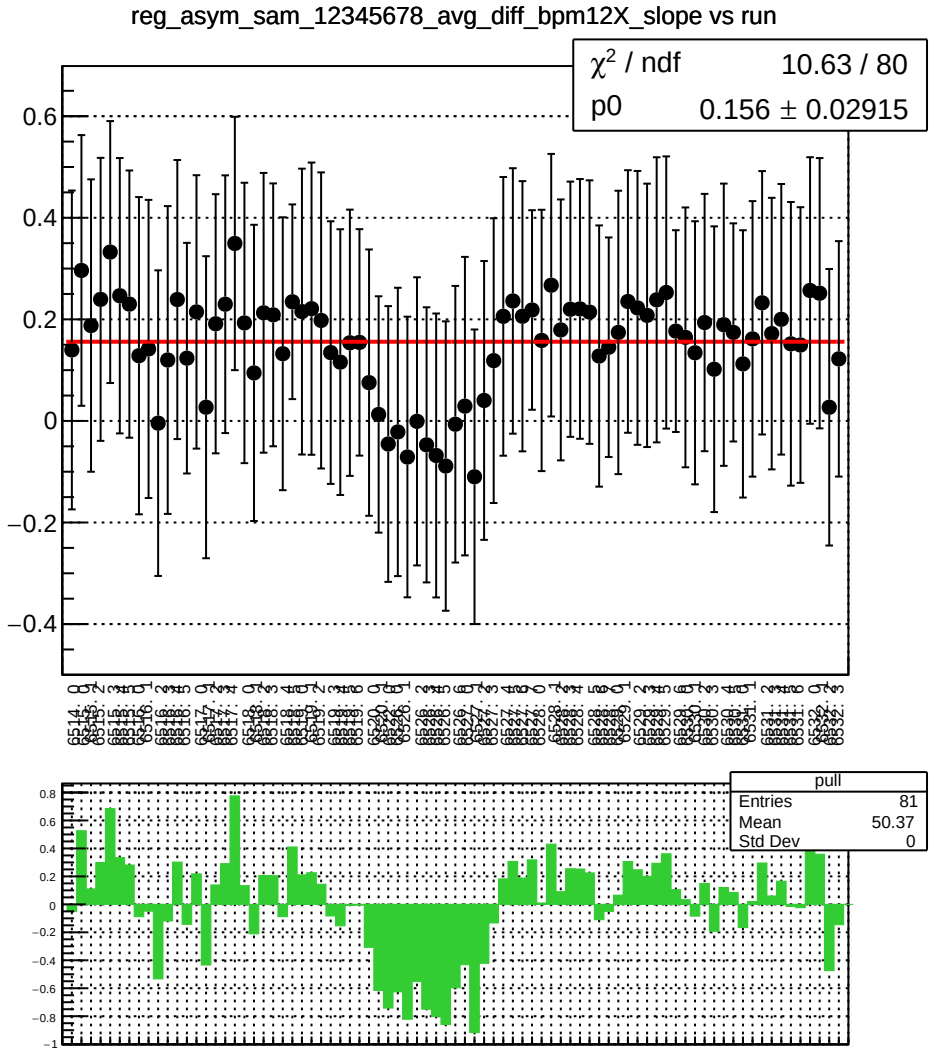

pull1D
Entries 81
Mean 0.1893
Std Dev 1.978

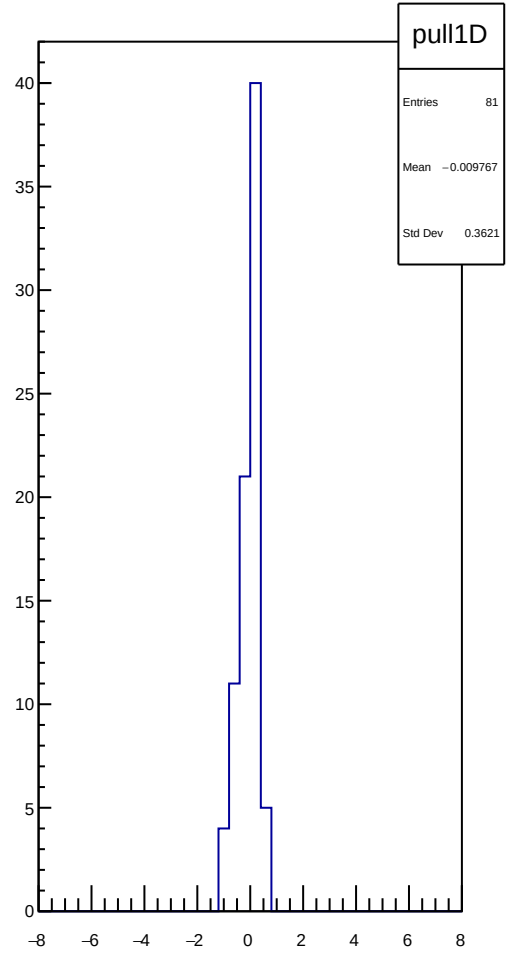

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 403.2 / 80
p0 13.24 ± 0.6699
pull
Entries 81
Mean 87.76
Std Dev 0
pull1D
Entries 81
Mean 0.7331
Std Dev 2.107

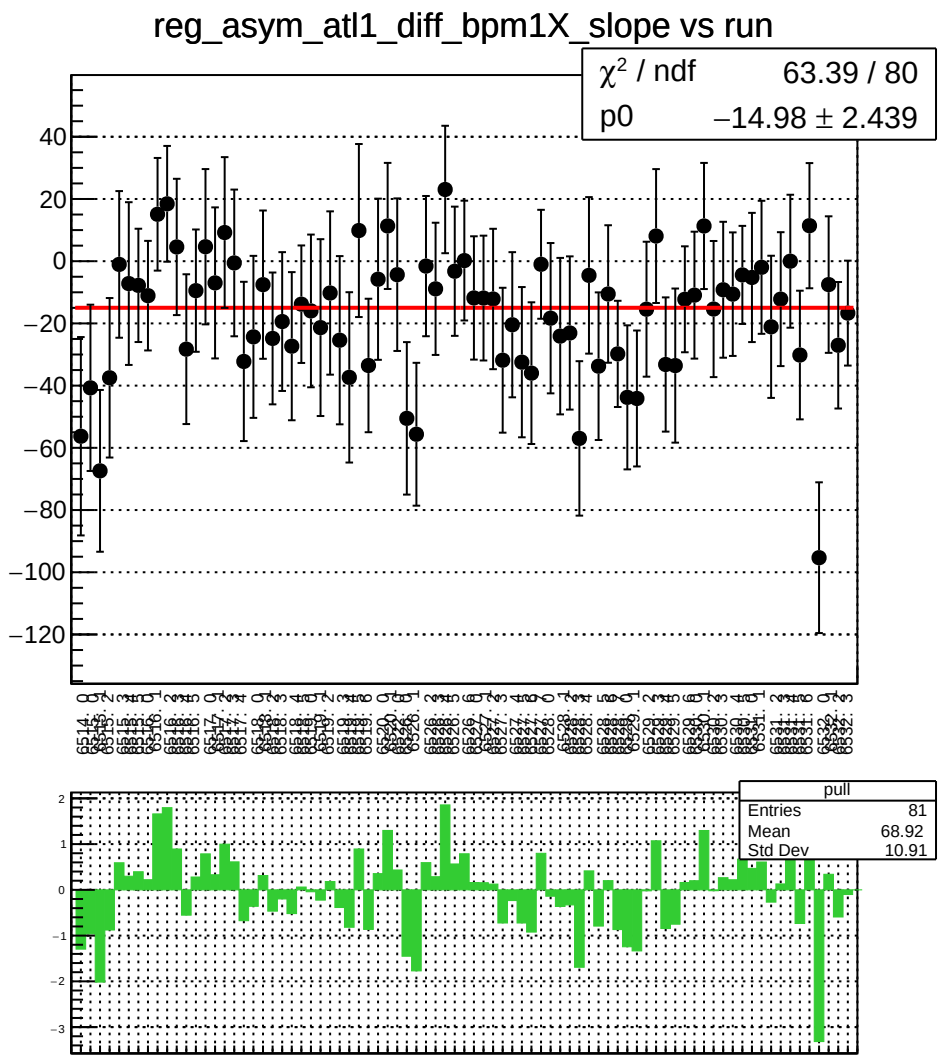

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 301.7 / 80
p0 −42.01 ± 0.7252
pull
Entries 81
Mean 160.4
Std Dev 0

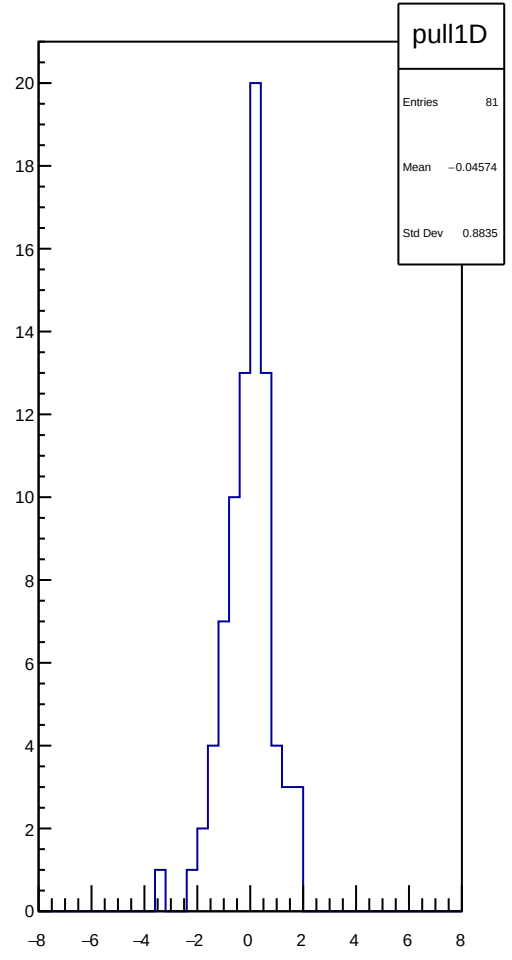

pull1D
Entries 81
Mean −0.1971
Std Dev 1.92

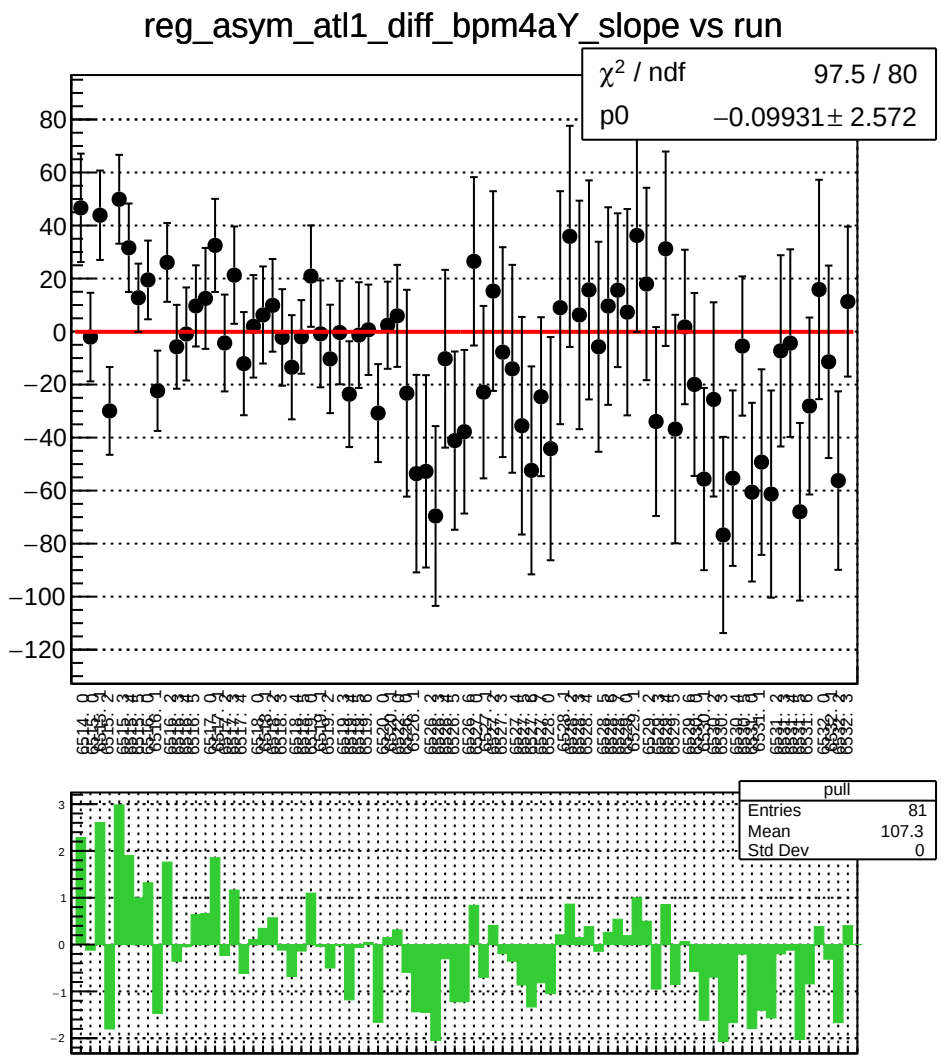

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 273.7 / 80
p0 22.87 ± 0.7713
pull
Entries 81
Mean 102.9
Std Dev 0
pull1D
Entries 81
Mean −0.4481
Std Dev 1.783

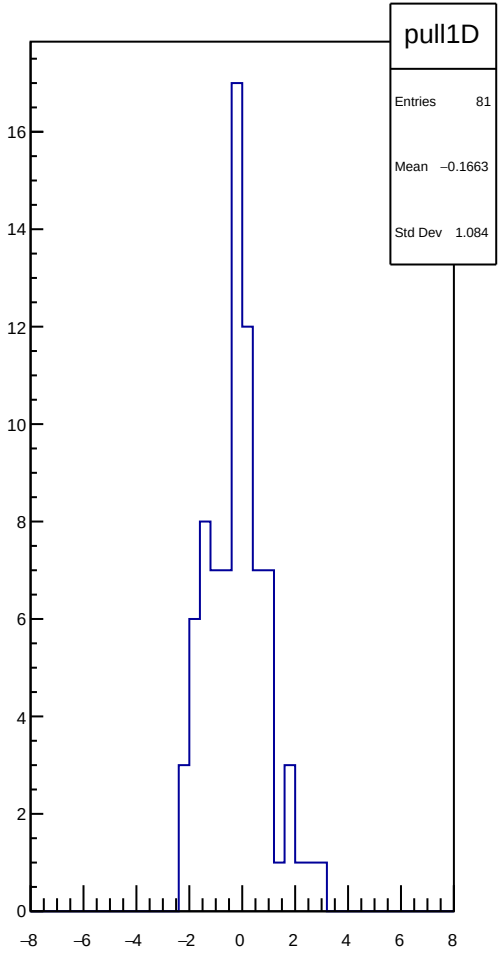

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 10.63 / 80
p0 0.156 ± 0.02915
pull
Entries 81
Mean 50.37
Std Dev 0

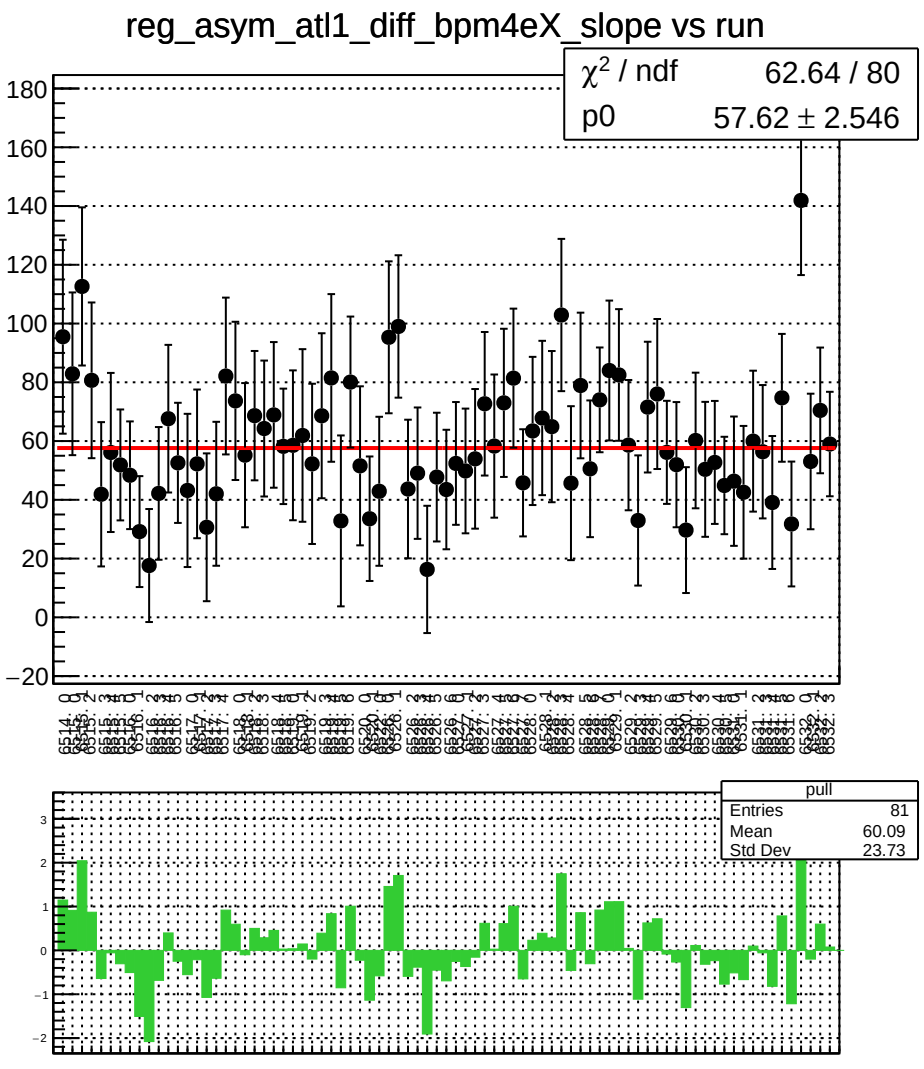

pull1D
Entries 81
Mean −0.009767
Std Dev 0.3621

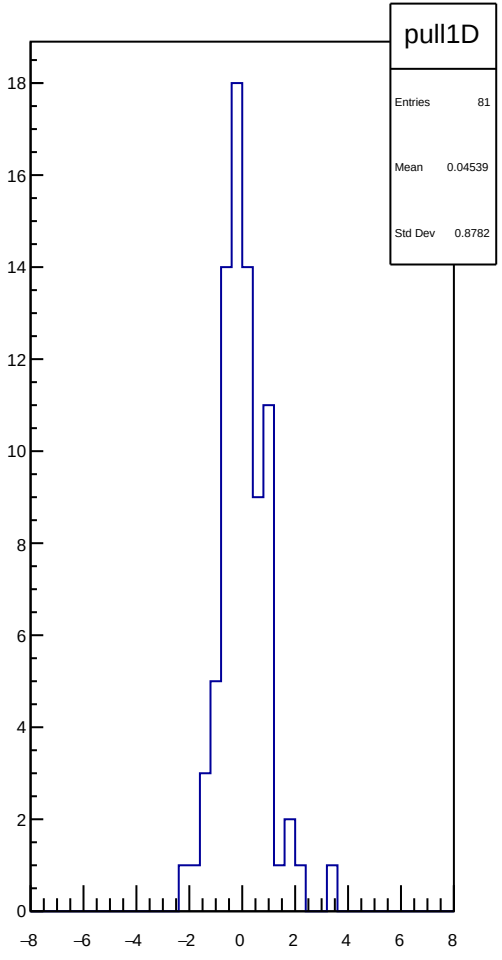

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 63.39 / 80
p0 −14.98 ± 2.439
pull
Entries 81
Mean 68.92
Std Dev 10.91

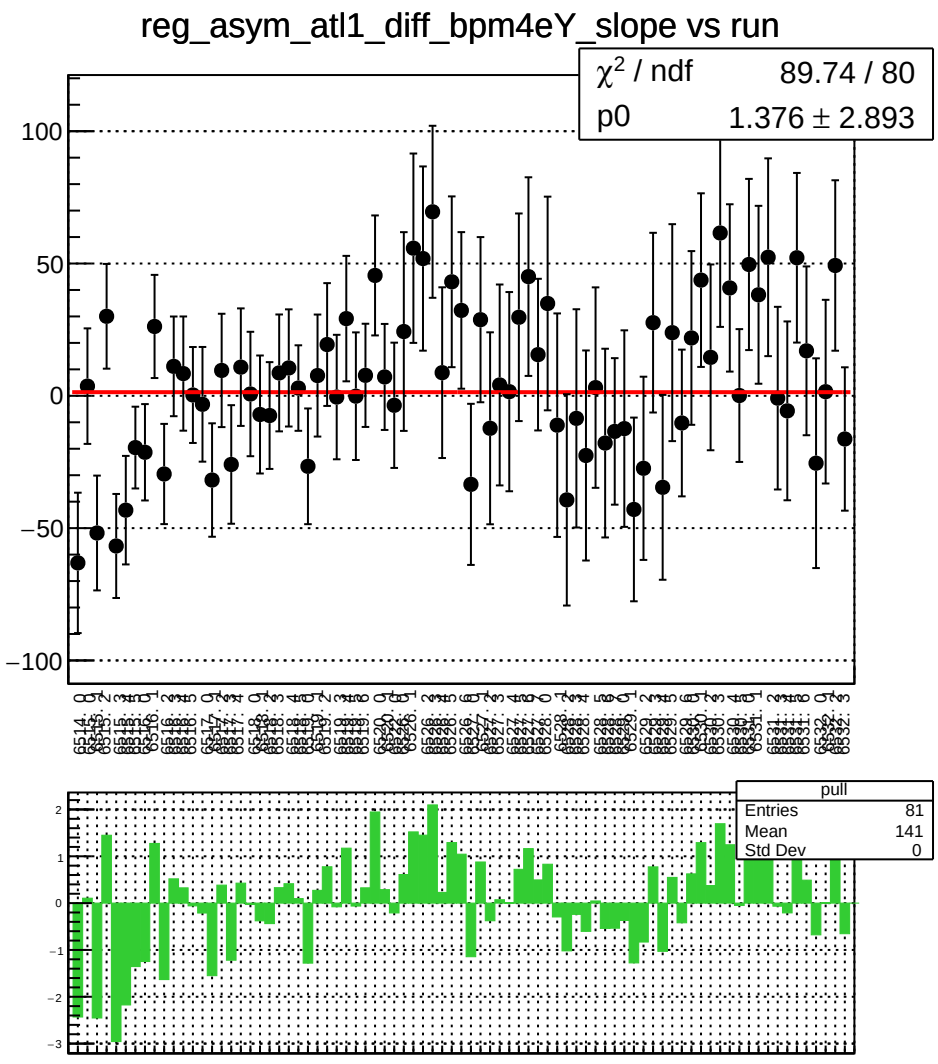

pull1D
Entries 81
Mean −0.04574
Std Dev 0.8835

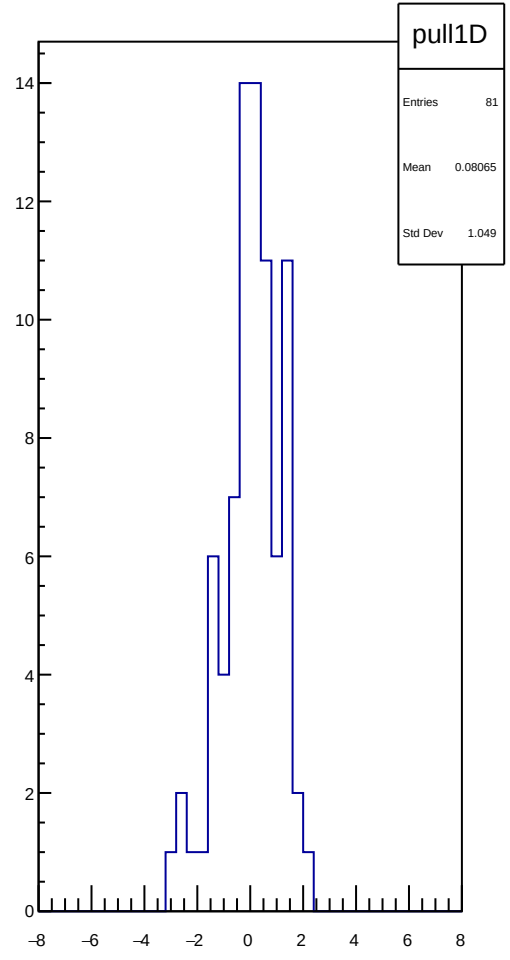

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 97.5 / 80
p0 −0.09931 ± 2.572
pull
Entries 81
Mean 107.3
Std Dev 0

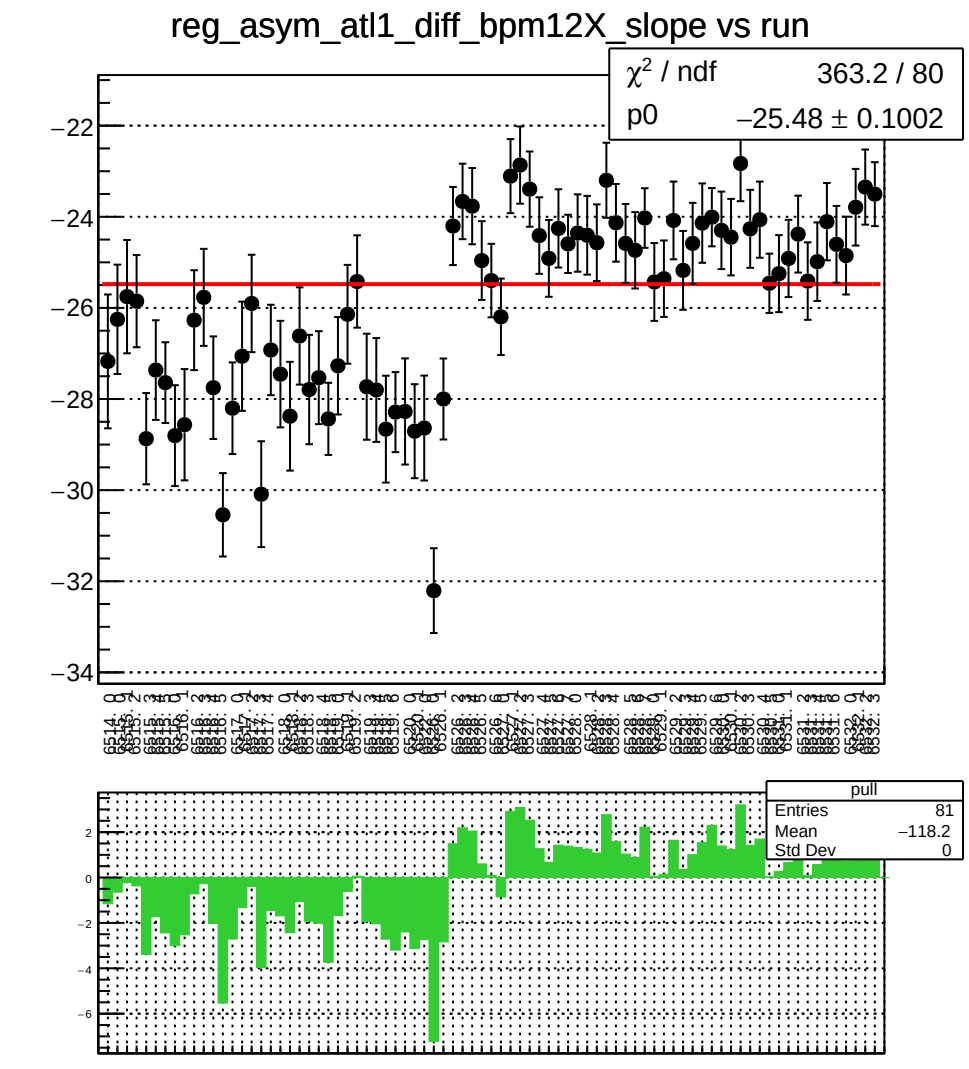

pull1D
Entries 81
Mean −0.1663
Std Dev 1.084

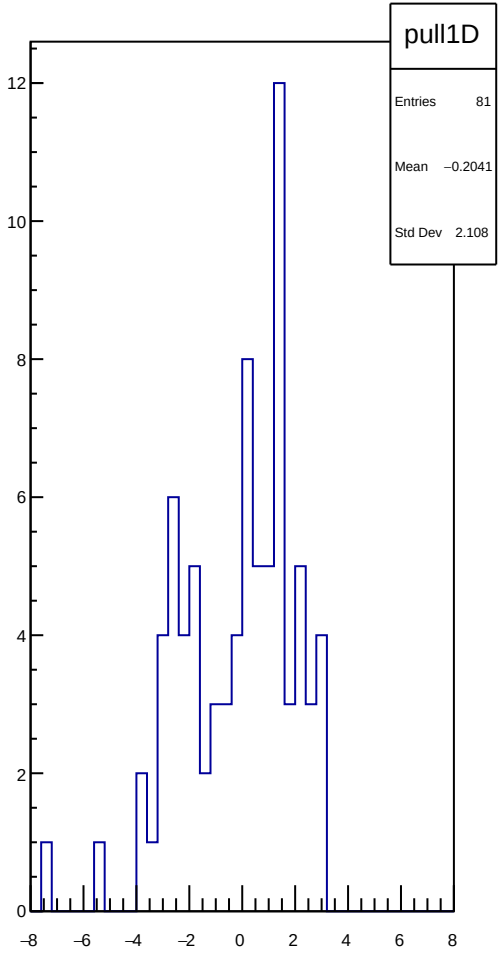

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 62.64 / 80
p0 57.62 ± 2.546
pull
Entries 81
Mean 60.09
Std Dev 23.73

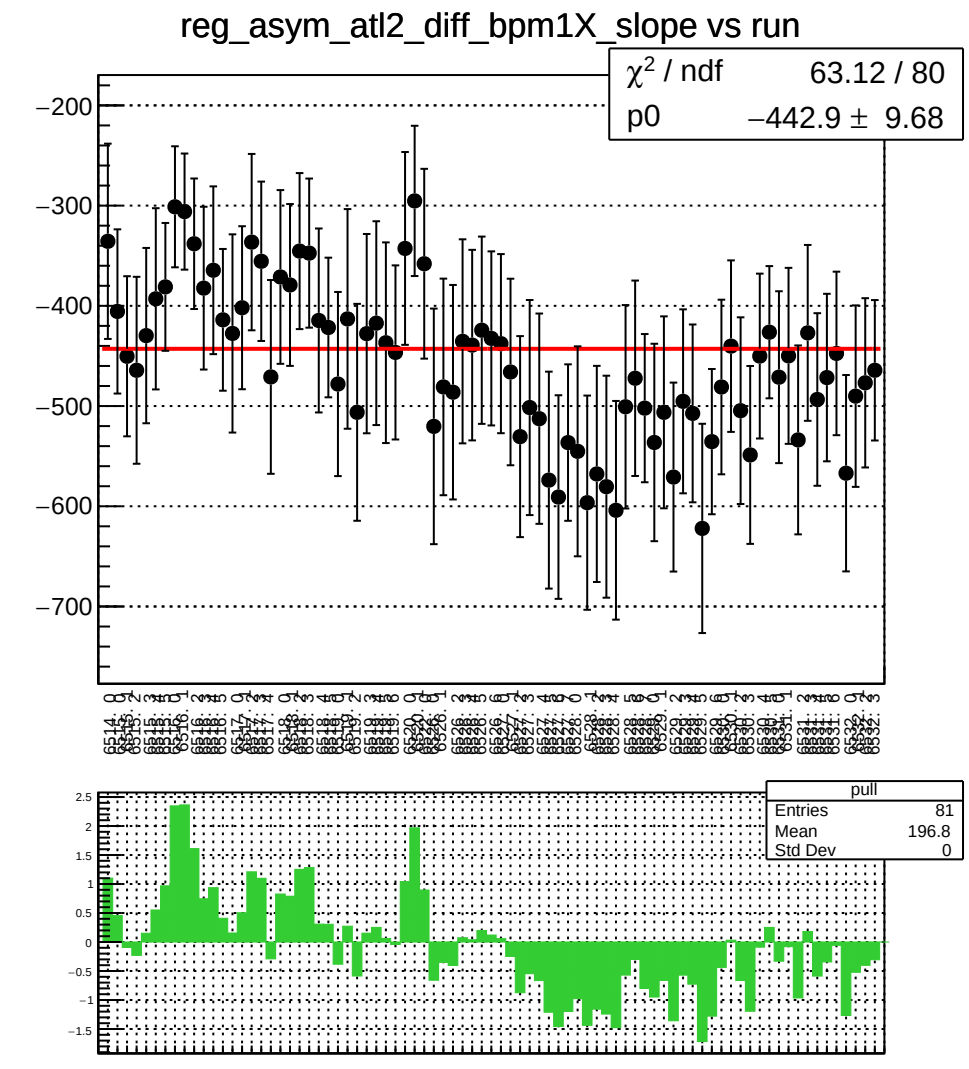

pull1D
Entries 81
Mean 0.04539
Std Dev 0.8782

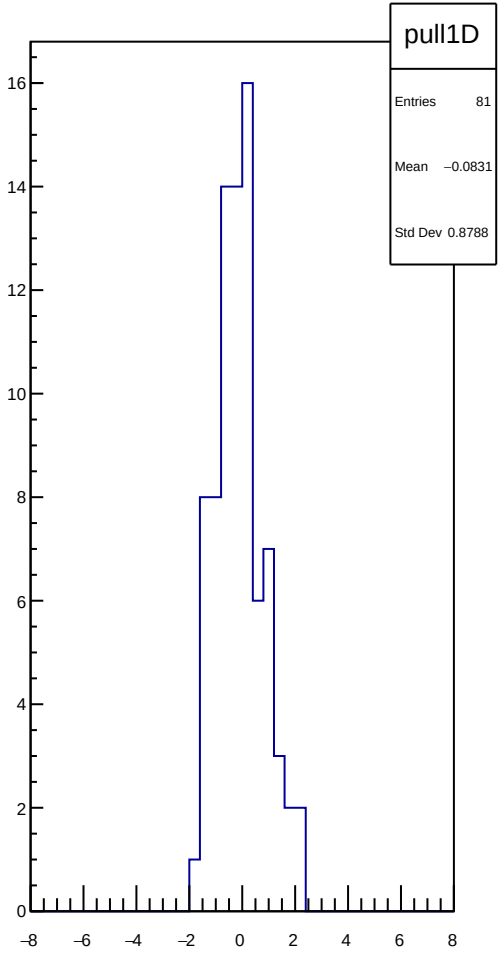

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 89.74 / 80
p0 1.376 ± 2.893
100
50
0
−50
−100
pull
Entries 81
Mean 141
Std Dev 0
2
1
0
−1
−2
−3

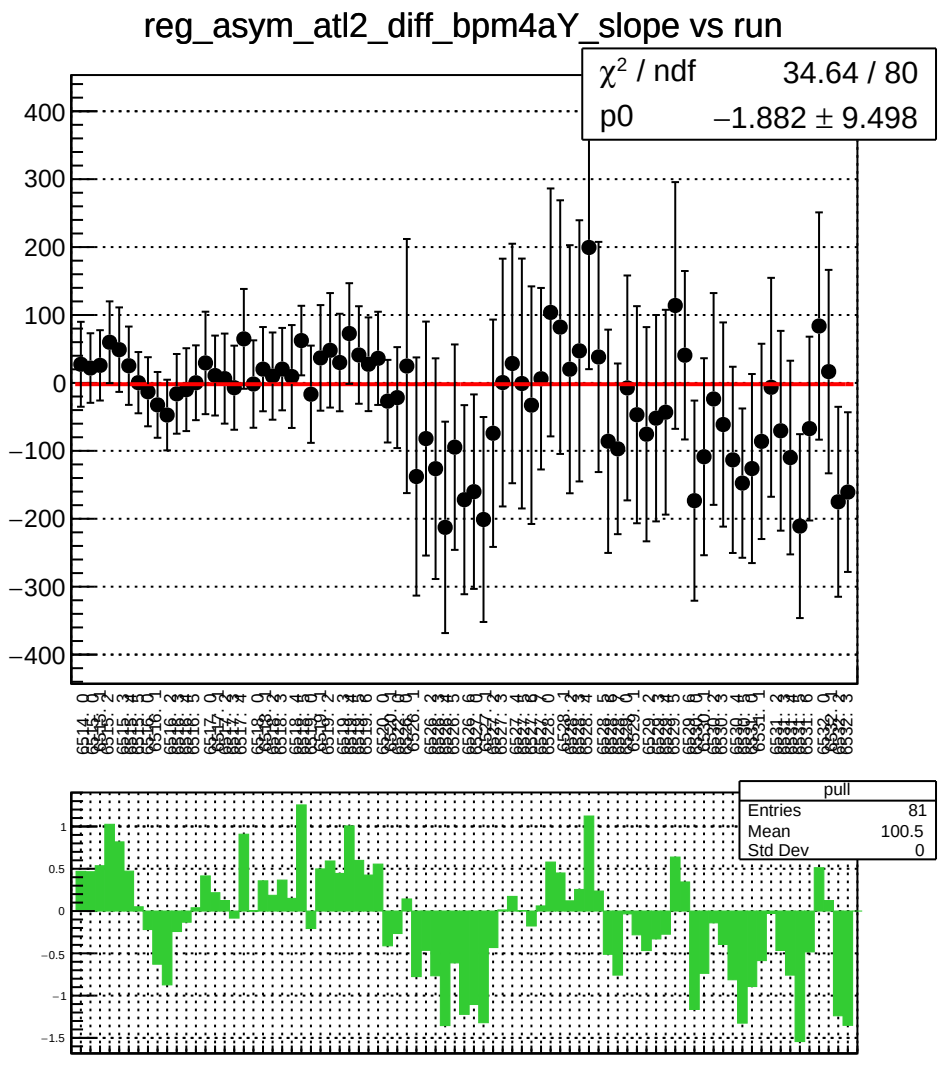

pull1D
Entries 81
Mean 0.08065
Std Dev 1.049
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

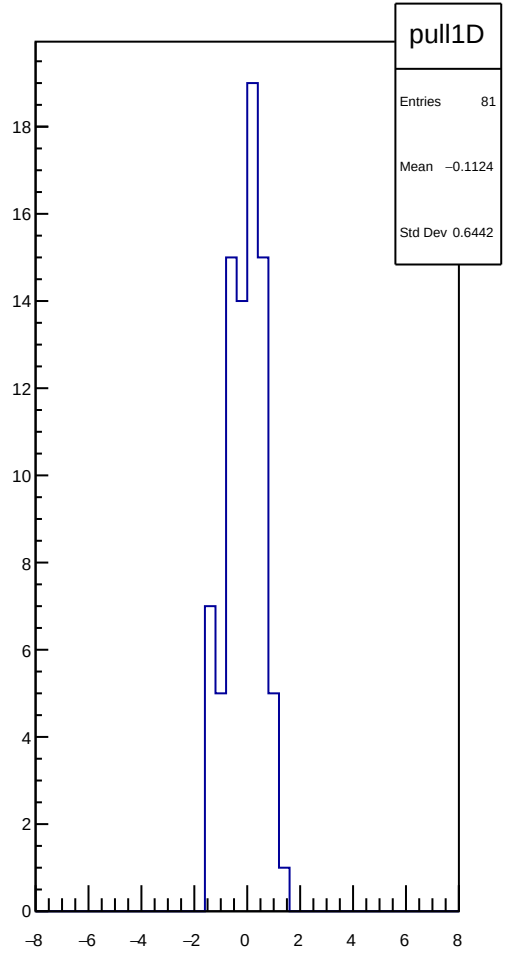

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 363.2 / 80
p0 −25.48 ± 0.1002
pull
Entries 81
Mean −118.2
Std Dev 0

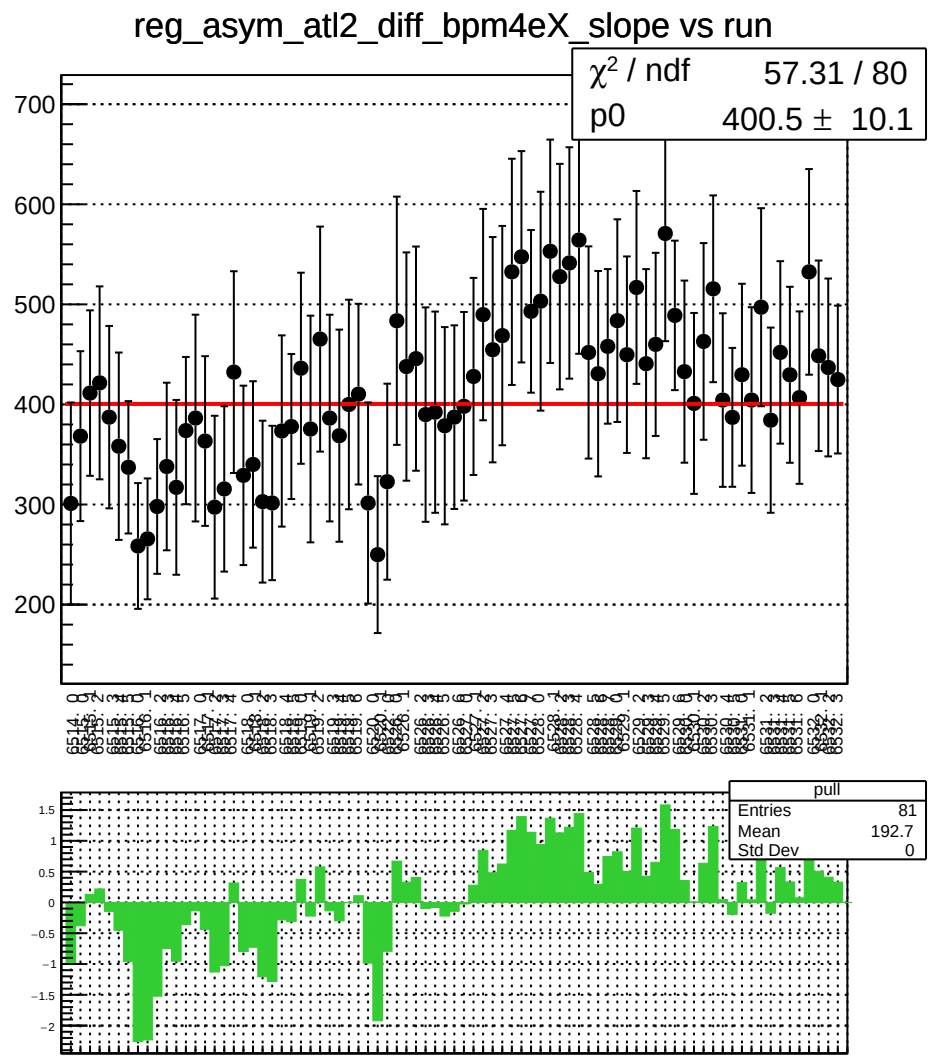

pull1D
Entries 81
Mean −0.2041
Std Dev 2.108

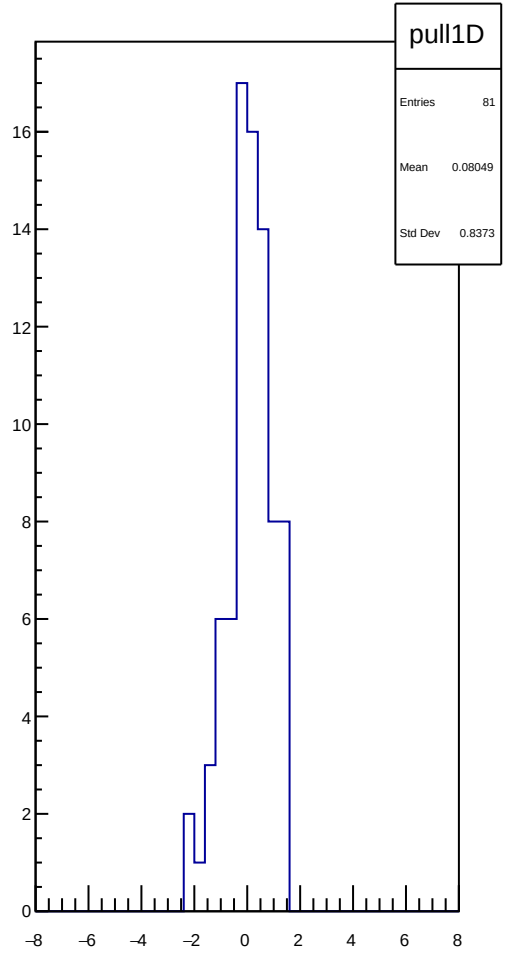

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 63.12 / 80
p0 −442.9 ± 9.68
−200
−300
−400
−500
−600
−700
pull
Entries 81
Mean 196.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

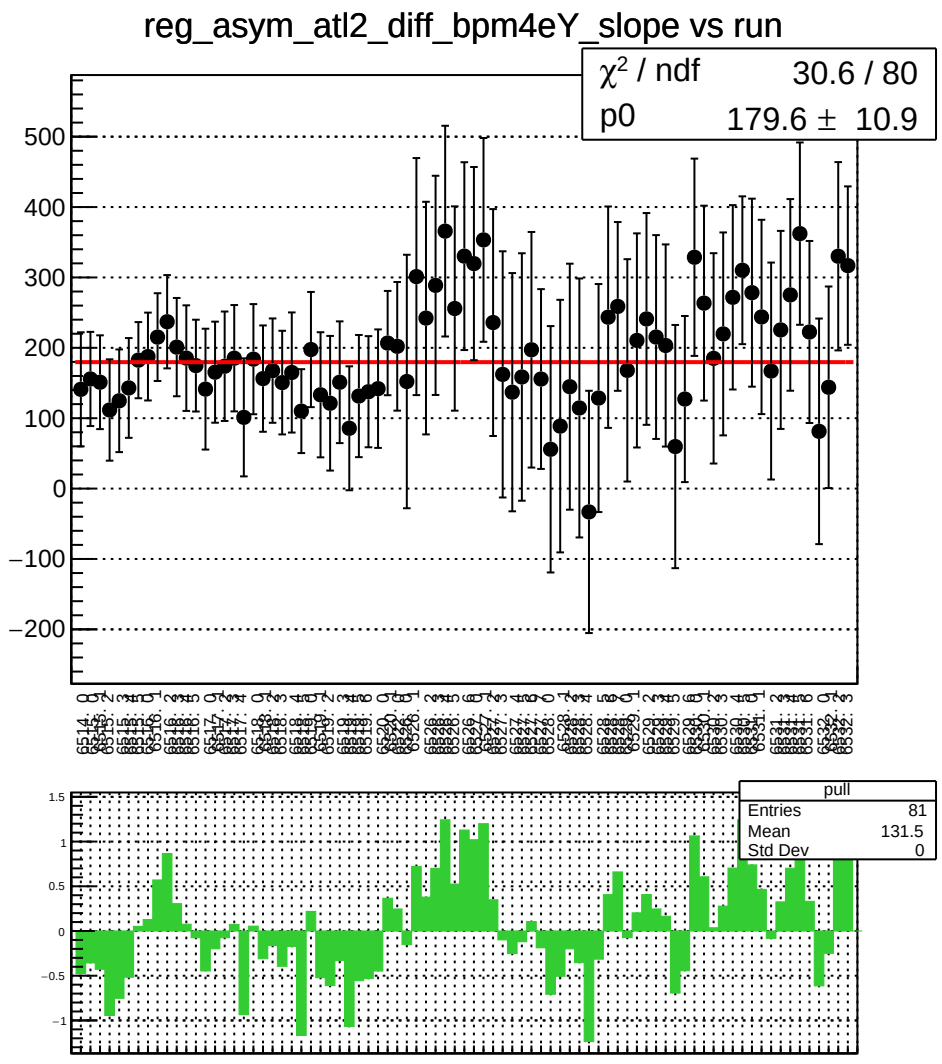

pull1D
Entries 81
Mean −0.0831
Std Dev 0.8788
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

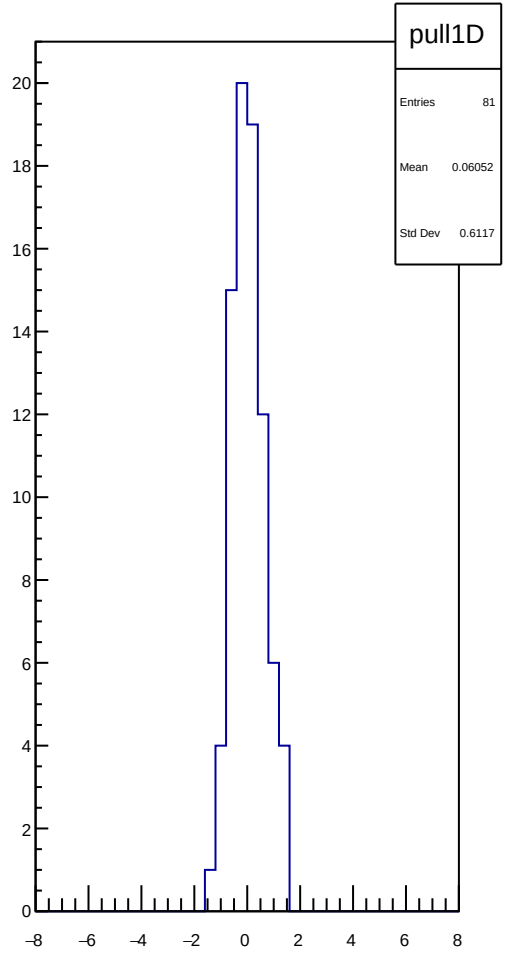

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 34.64 / 80
p0 −1.882 ± 9.498
pull
Entries 81
Mean 100.5
Std Dev 0

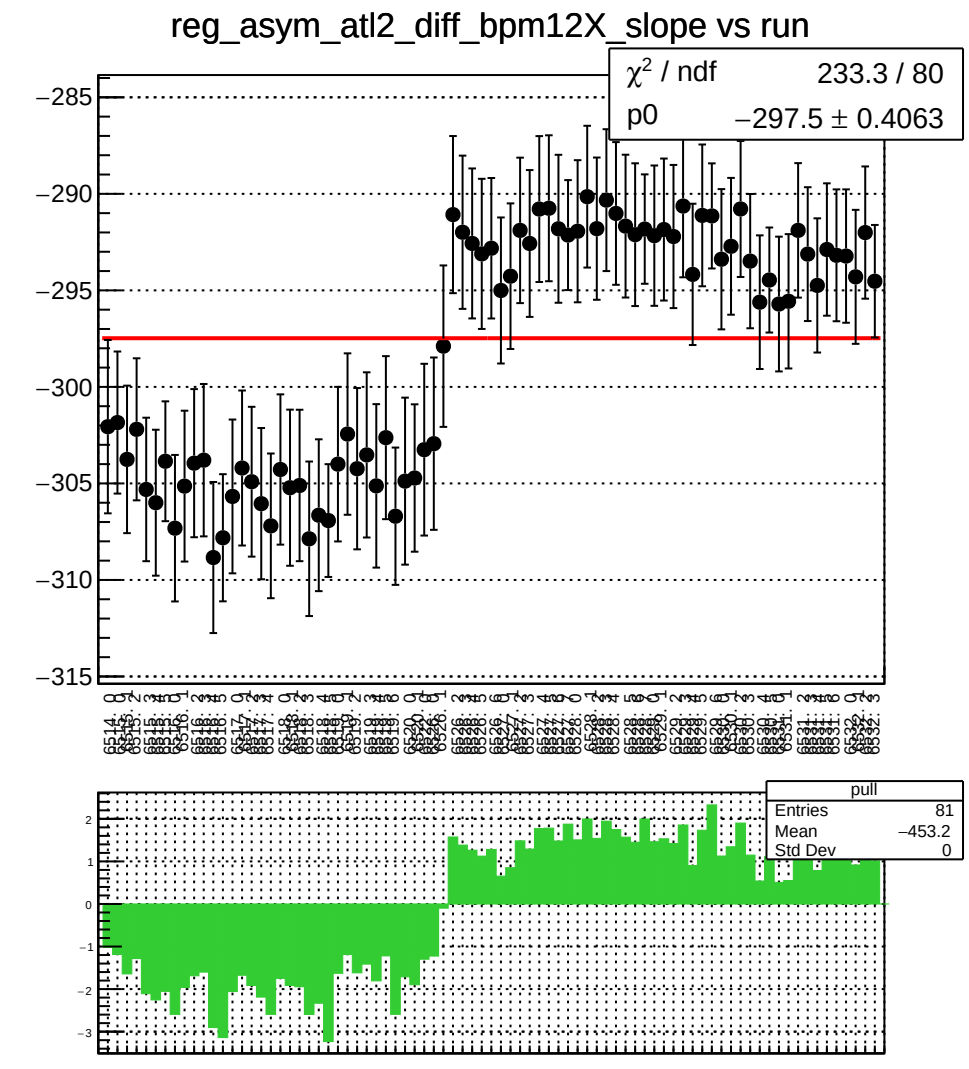

pull1D
Entries 81
Mean −0.1124
Std Dev 0.6442

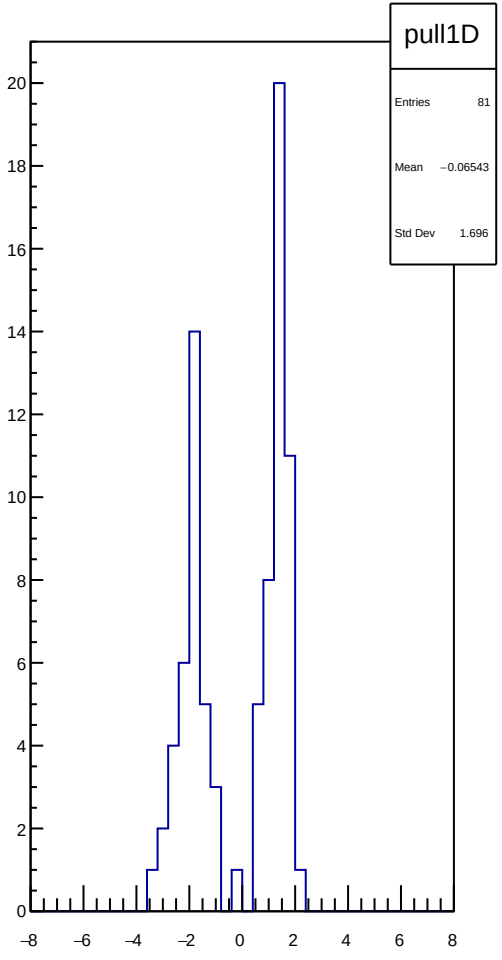

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 57.31 / 80
p0 400.5 ± 10.1
700
600
500
400
300
200
pull
Entries 81
Mean 192.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

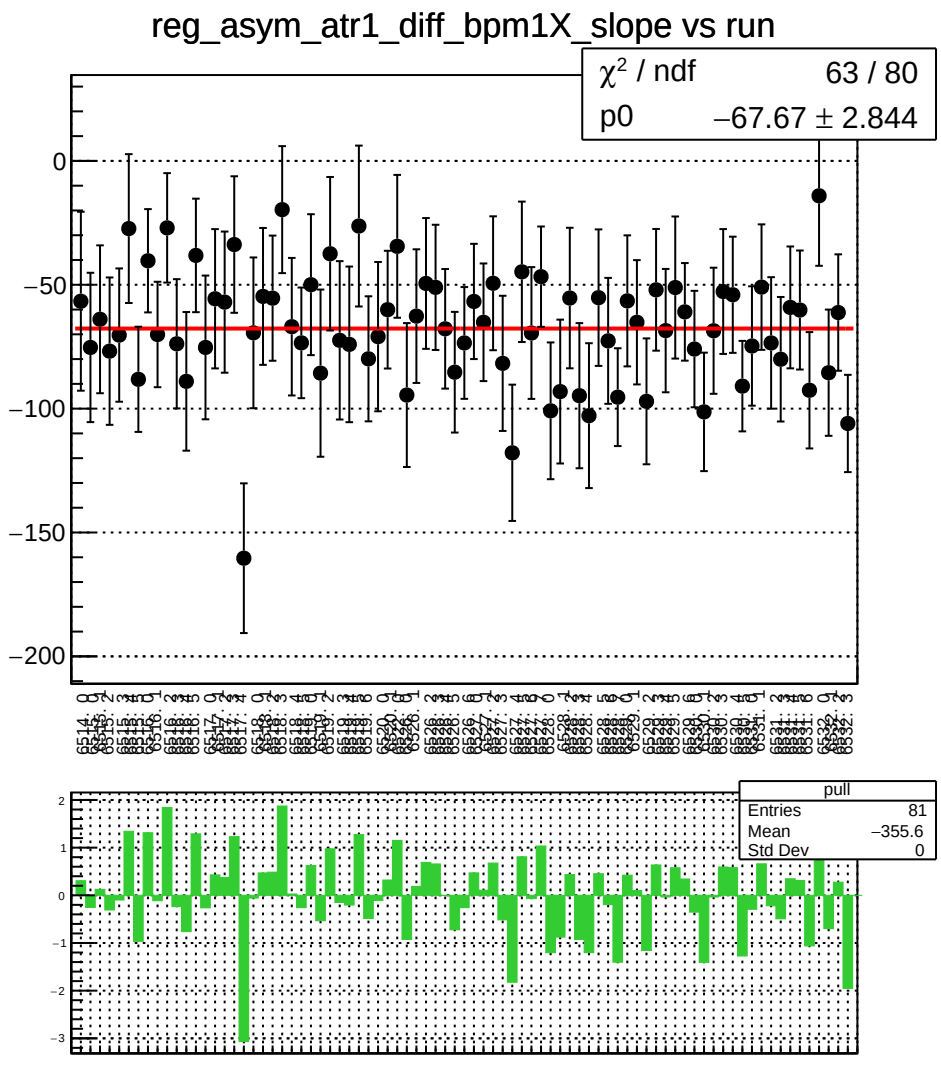

pull1D
Entries 81
Mean 0.08049
Std Dev 0.8373
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

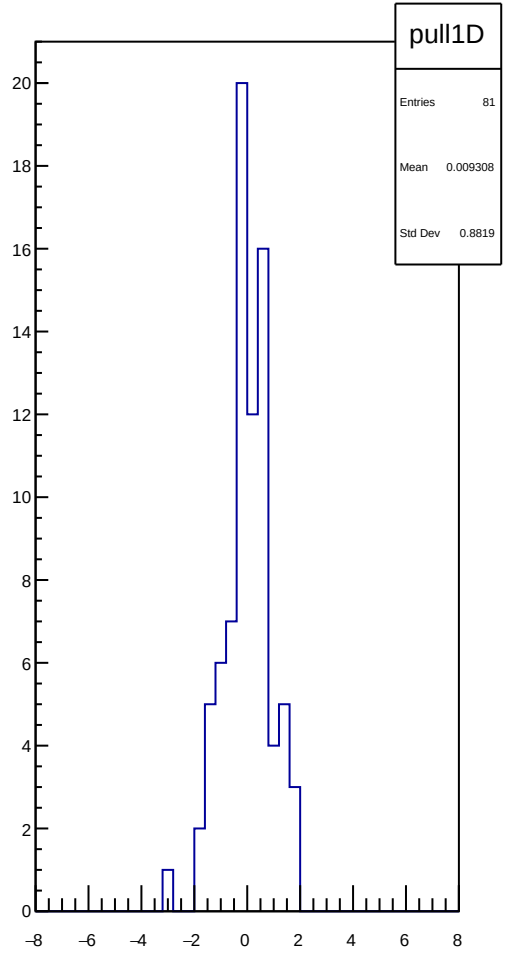

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 30.6 / 80
p0 179.6 ± 10.9
pull
Entries 81
Mean 131.5
Std Dev 0

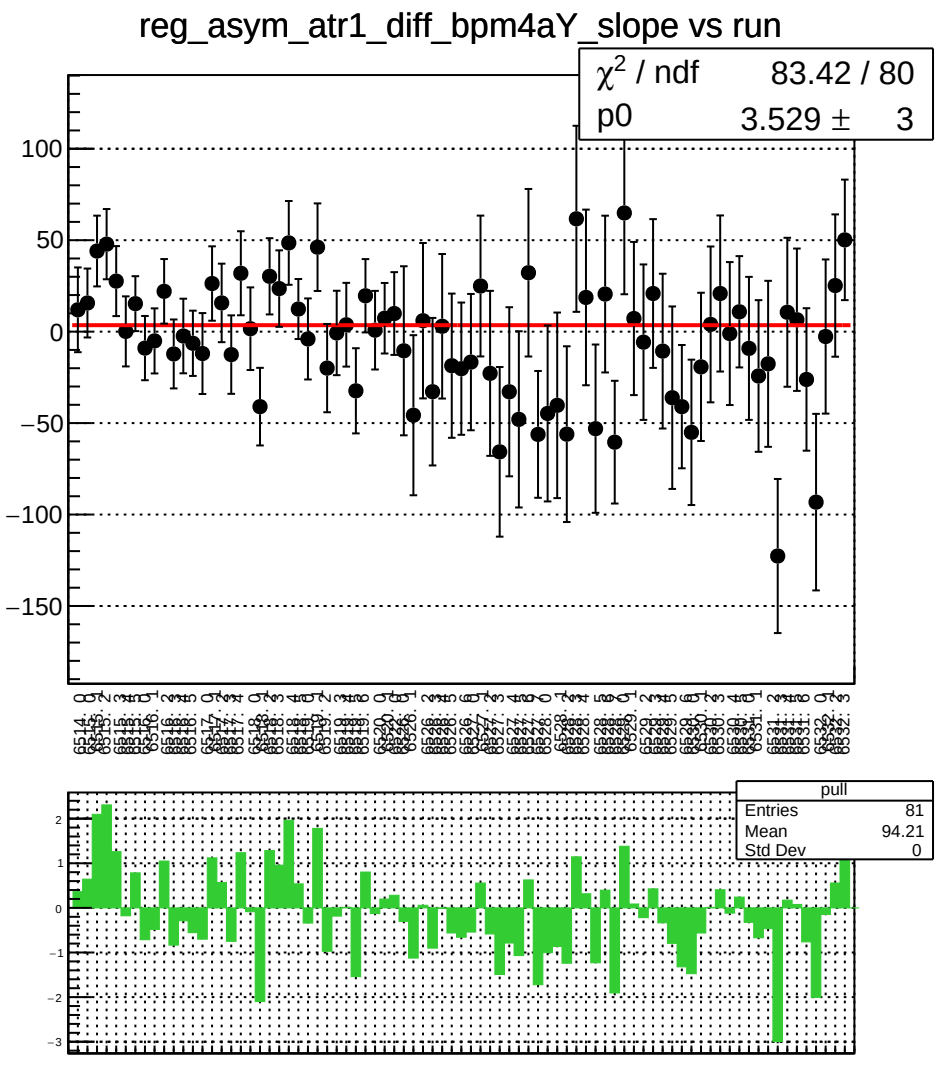

pull1D
Entries 81
Mean 0.06052
Std Dev 0.6117

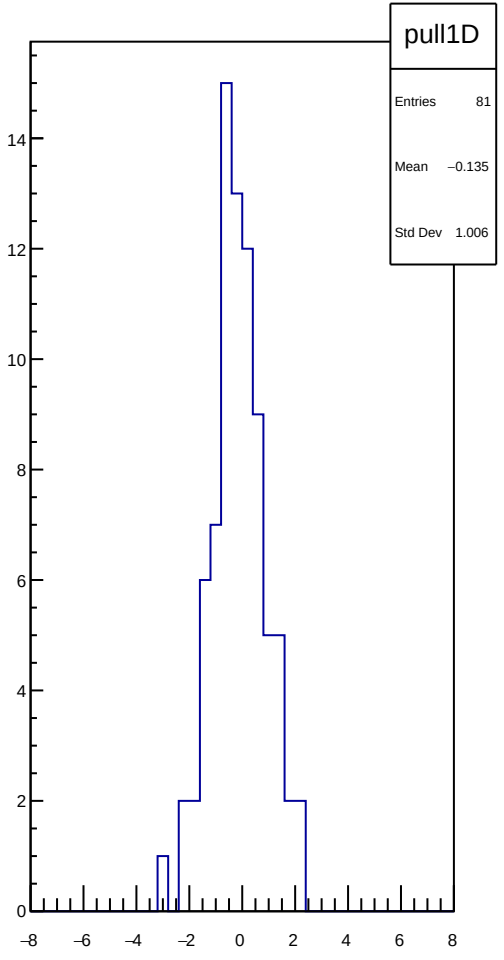

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 233.3 / 80
p0 −297.5 ± 0.4063
pull
Entries 81
Mean −453.2
Std Dev 0

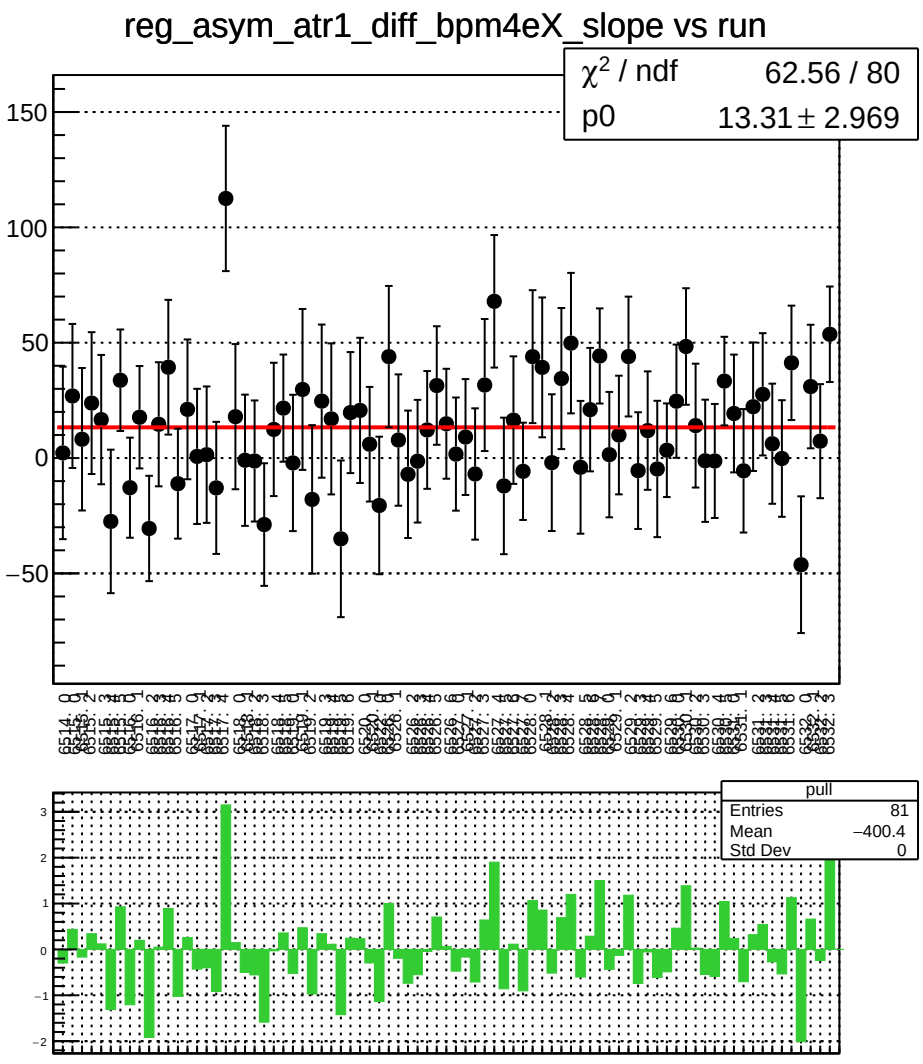

pull1D
Entries 81
Mean −0.06543
Std Dev 1.696

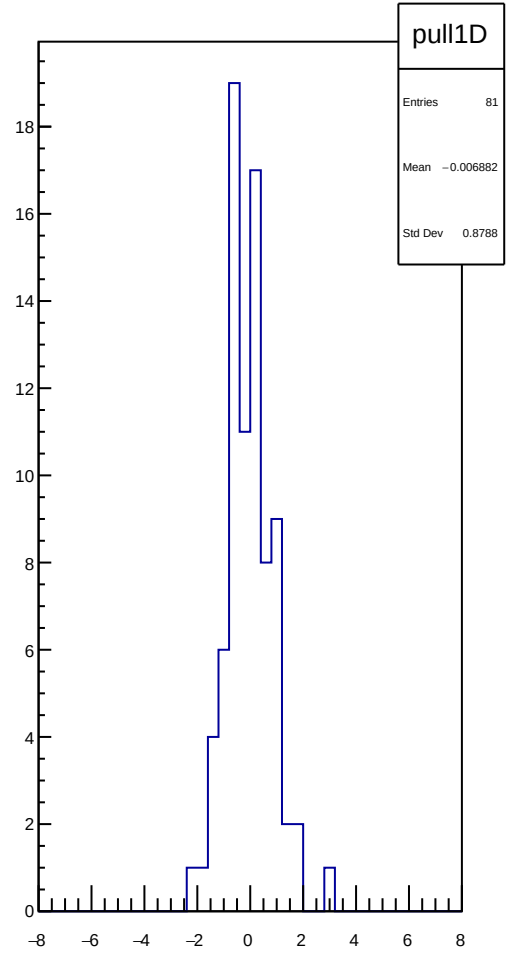

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 63 / 80
p0 −67.67 ± 2.844
pull
Entries 81
Mean −355.6
Std Dev 0

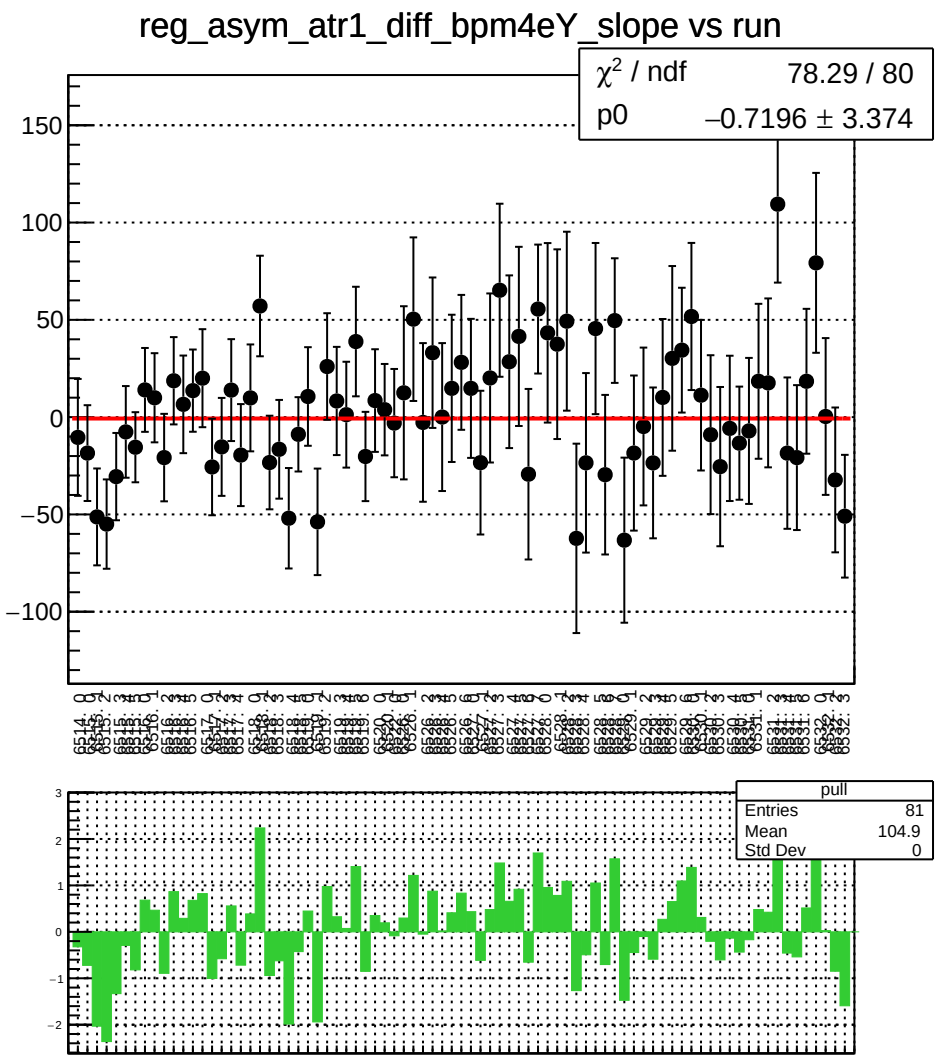

pull1D
Entries 81
Mean 0.009308
Std Dev 0.8819

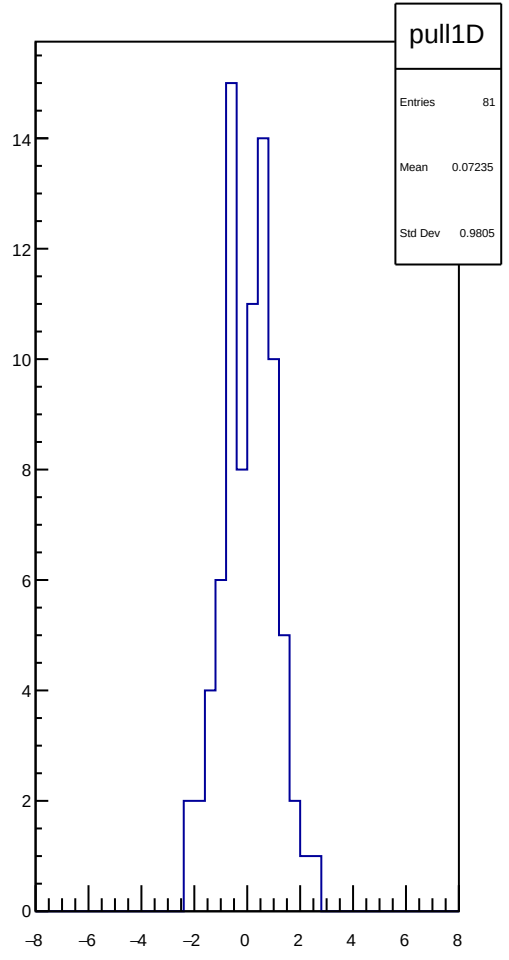

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 83.42 / 80
p0 3.529 ± 3
pull
Entries 81
Mean 94.21
Std Dev 0

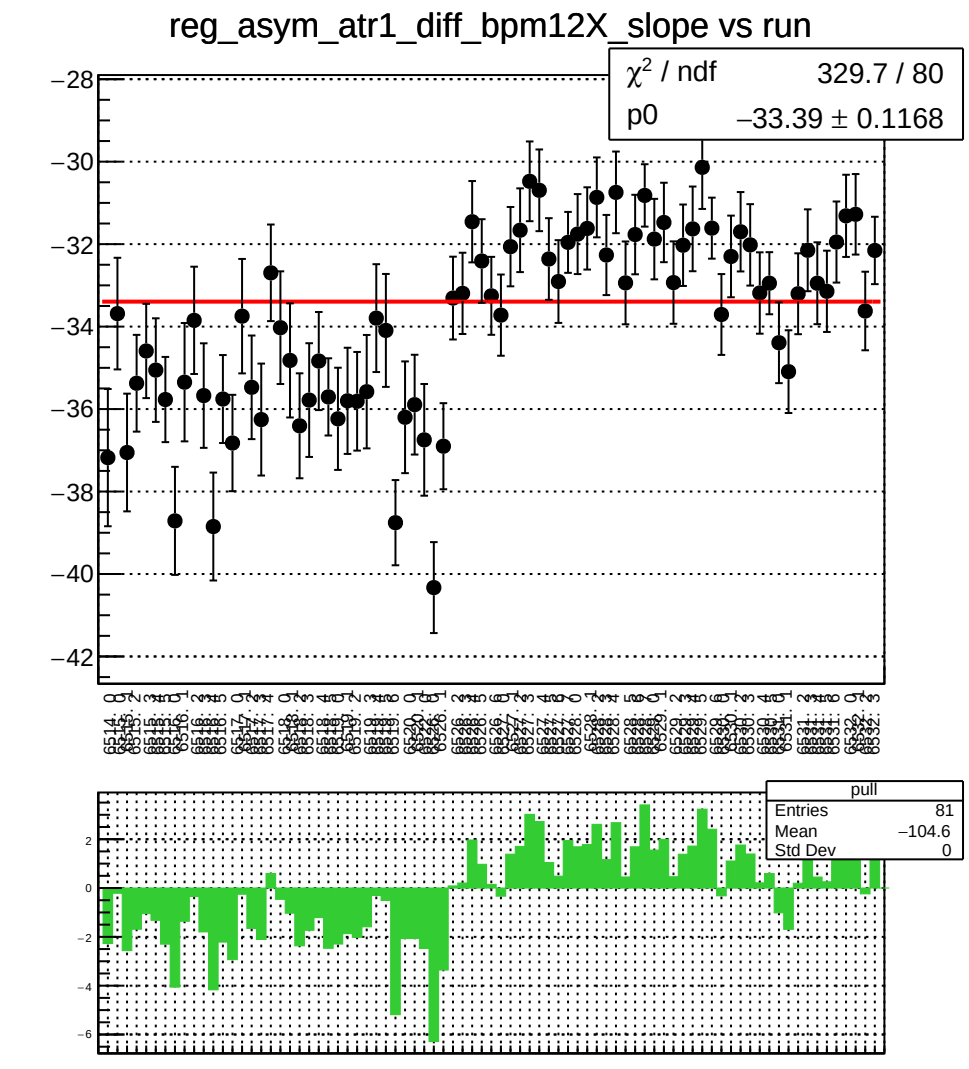

pull1D
Entries 81
Mean −0.135
Std Dev 1.006

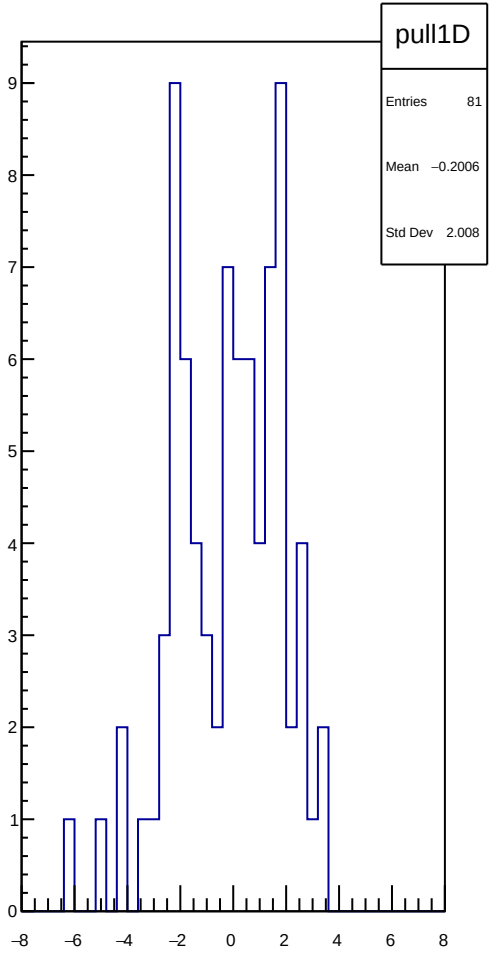

reg_asym_atr1_diff_bpm4eX_slope vs run
χ^2 / ndf 62.56 / 80
p0 13.31 ± 2.969
150
100
50
0
−50
pull
Entries 81
Mean −400.4
Std Dev 0
3
2
1
0
−1
−2

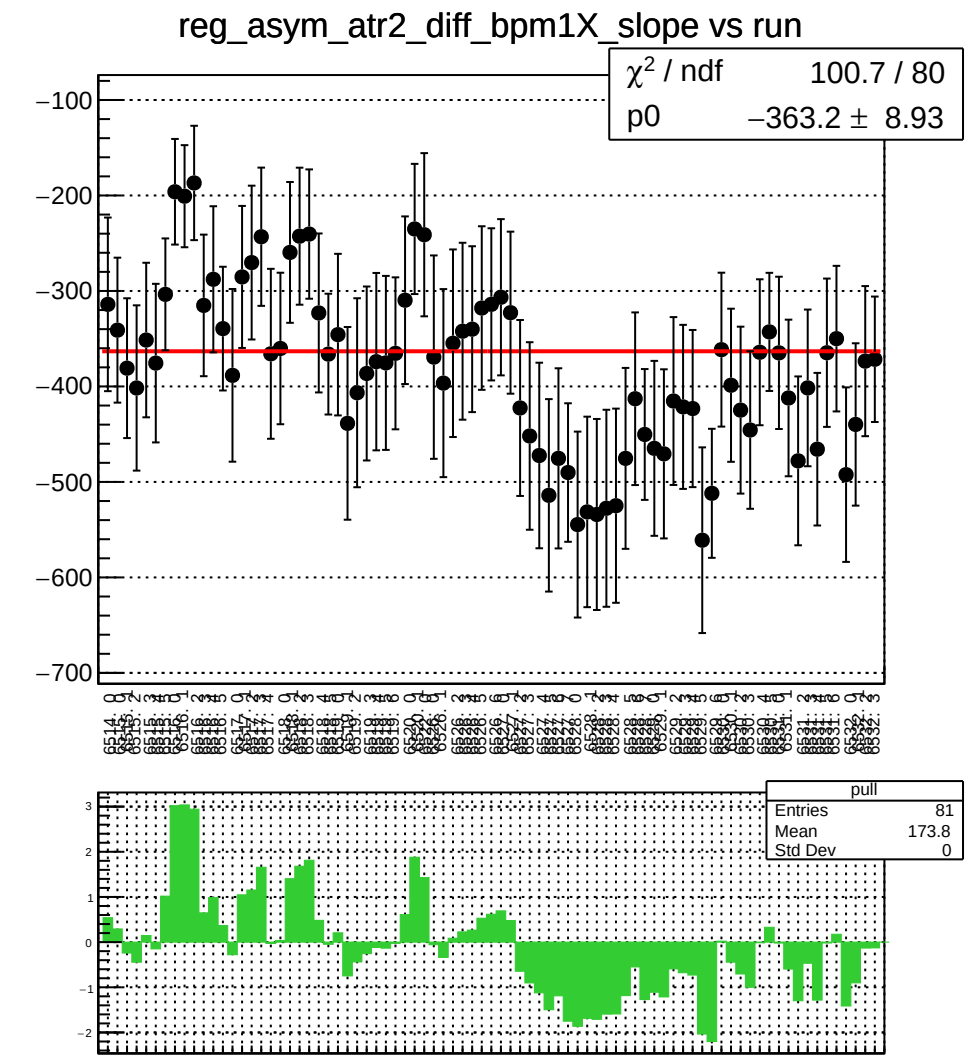

pull1D
Entries 81
Mean −0.006882
Std Dev 0.8788
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

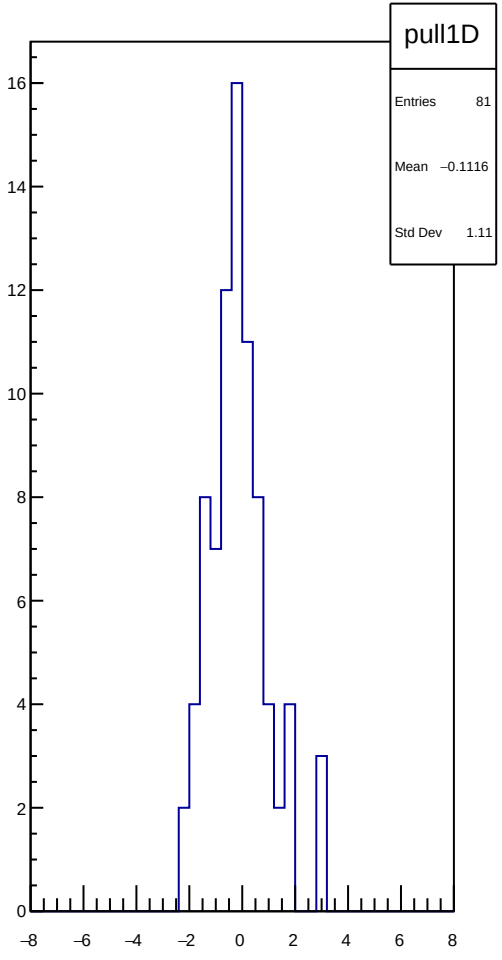

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 78.29 / 80
p0 −0.7196 ± 3.374
150
100
50
0
−50
−100
pull
Entries 81
Mean 104.9
Std Dev 0
3
2
1
0
−1
−2

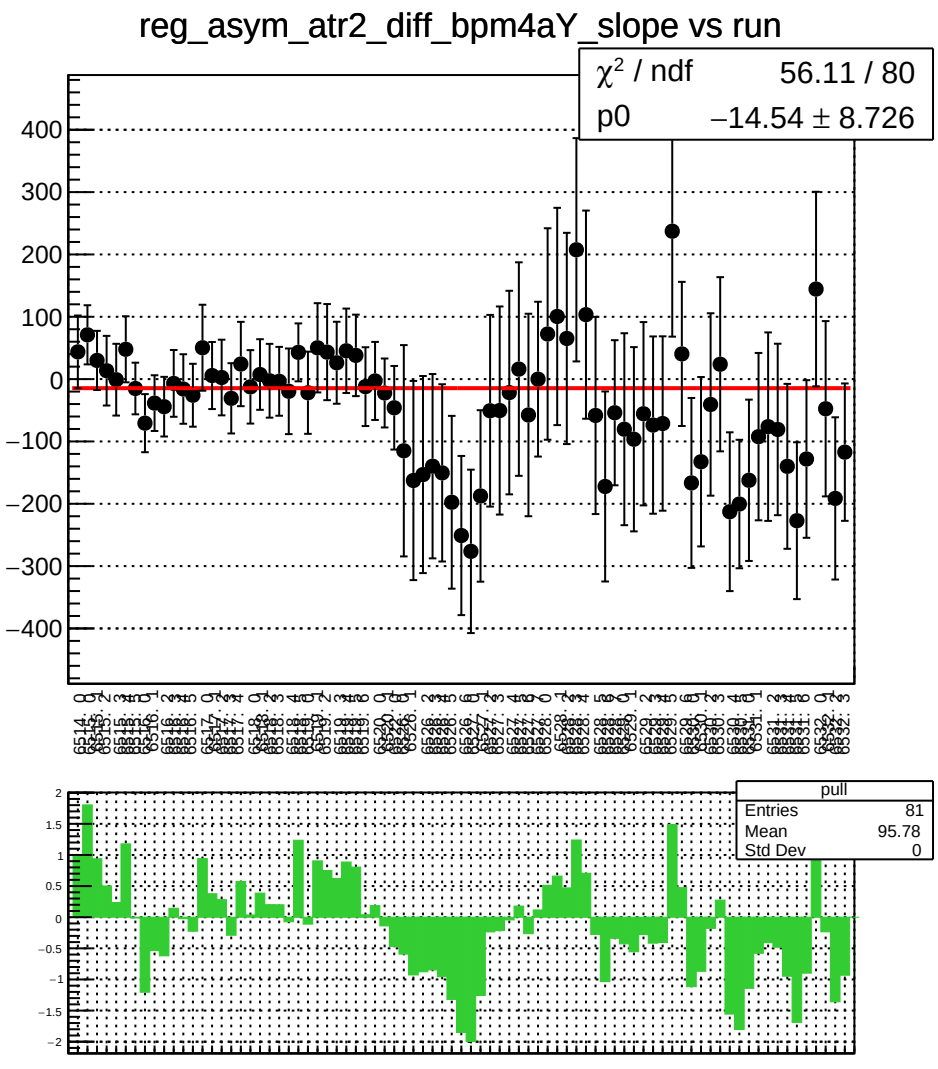

pull1D
Entries 81
Mean 0.07235
Std Dev 0.9805
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

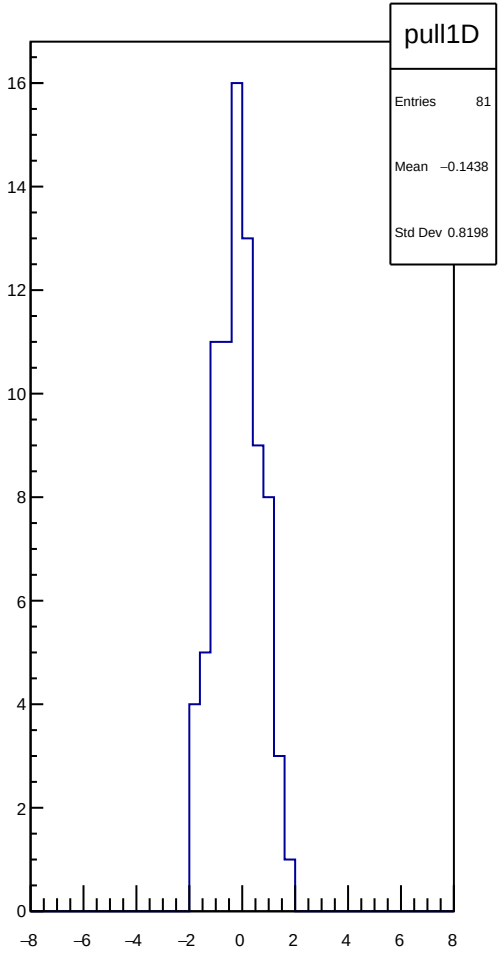

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 329.7 / 80
p0 −33.39 ± 0.1168
pull
Entries 81
Mean −104.6
Std Dev 0

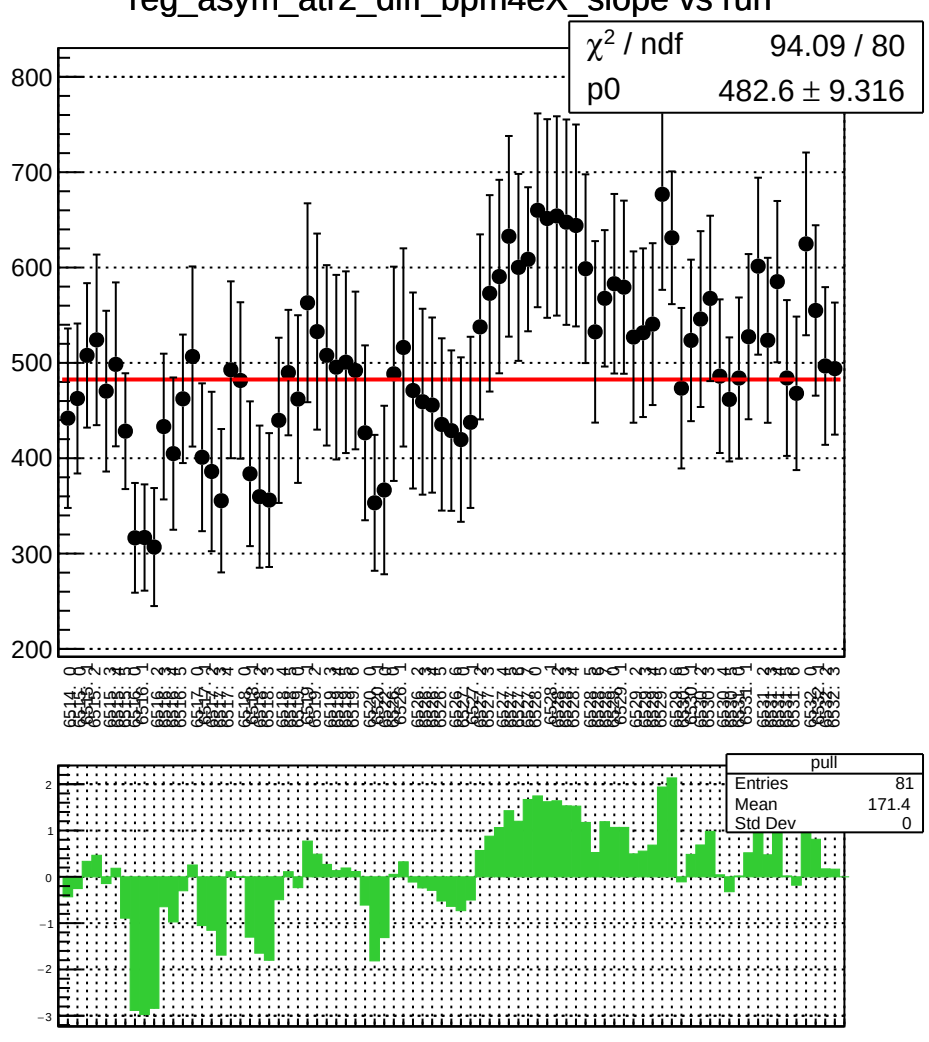

pull1D
Entries 81
Mean −0.2006
Std Dev 2.008

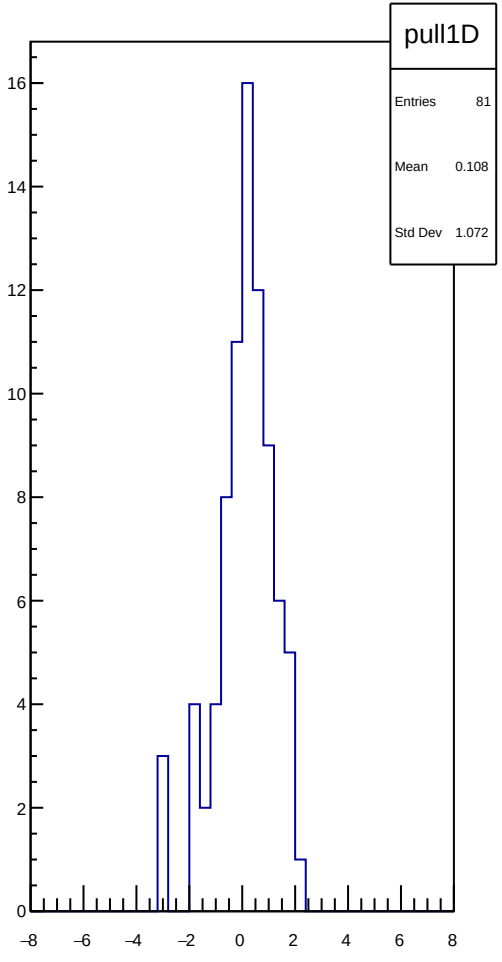

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 100.7 / 80
p0 −363.2 ± 8.93
pull
Entries 81
Mean 173.8
Std Dev 0

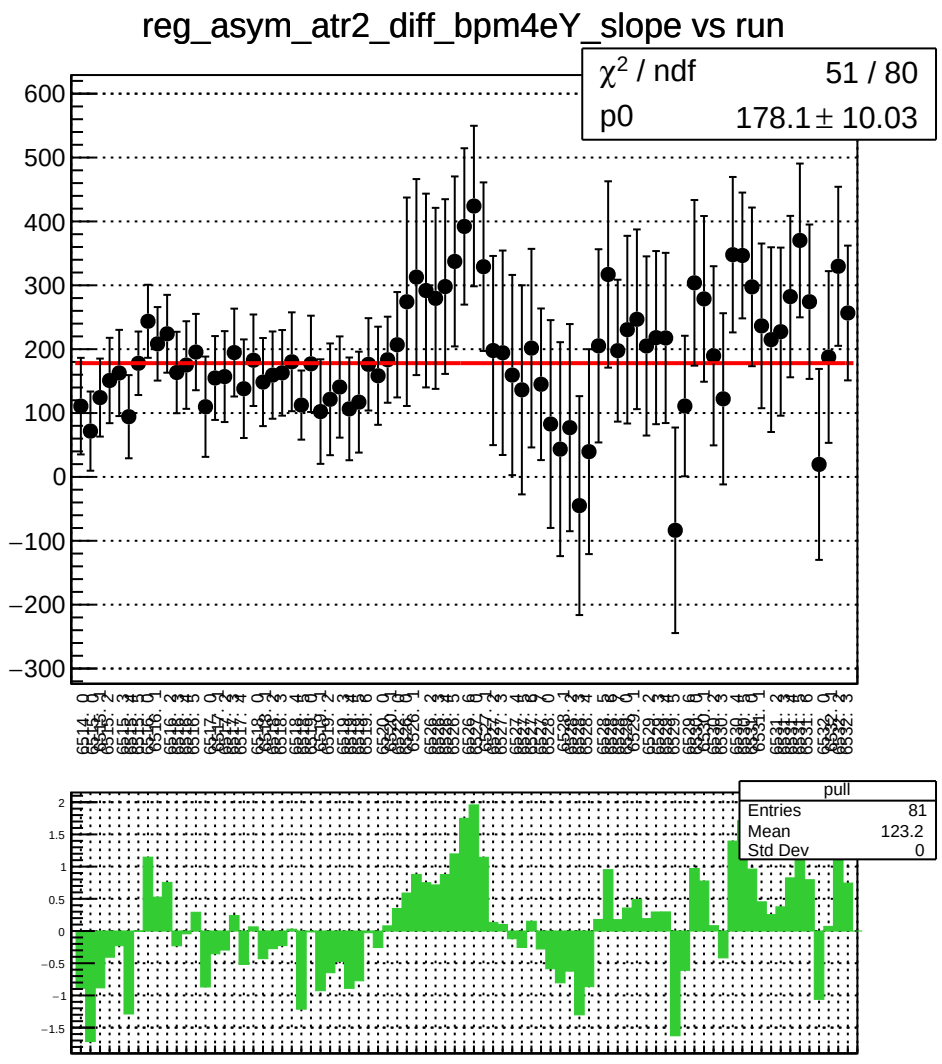

pull1D
Entries 81
Mean −0.1116
Std Dev 1.11

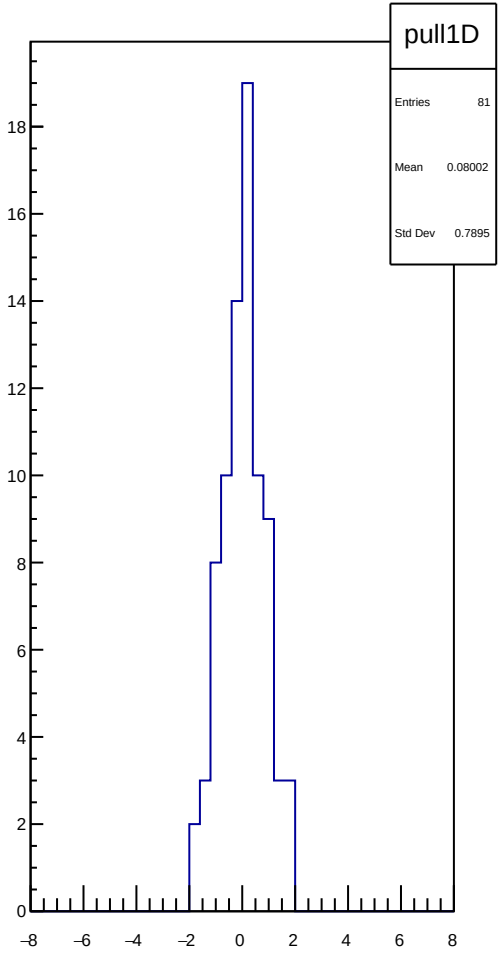

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 56.11 / 80
p0 −14.54 ± 8.726
pull
Entries 81
Mean 95.78
Std Dev 0

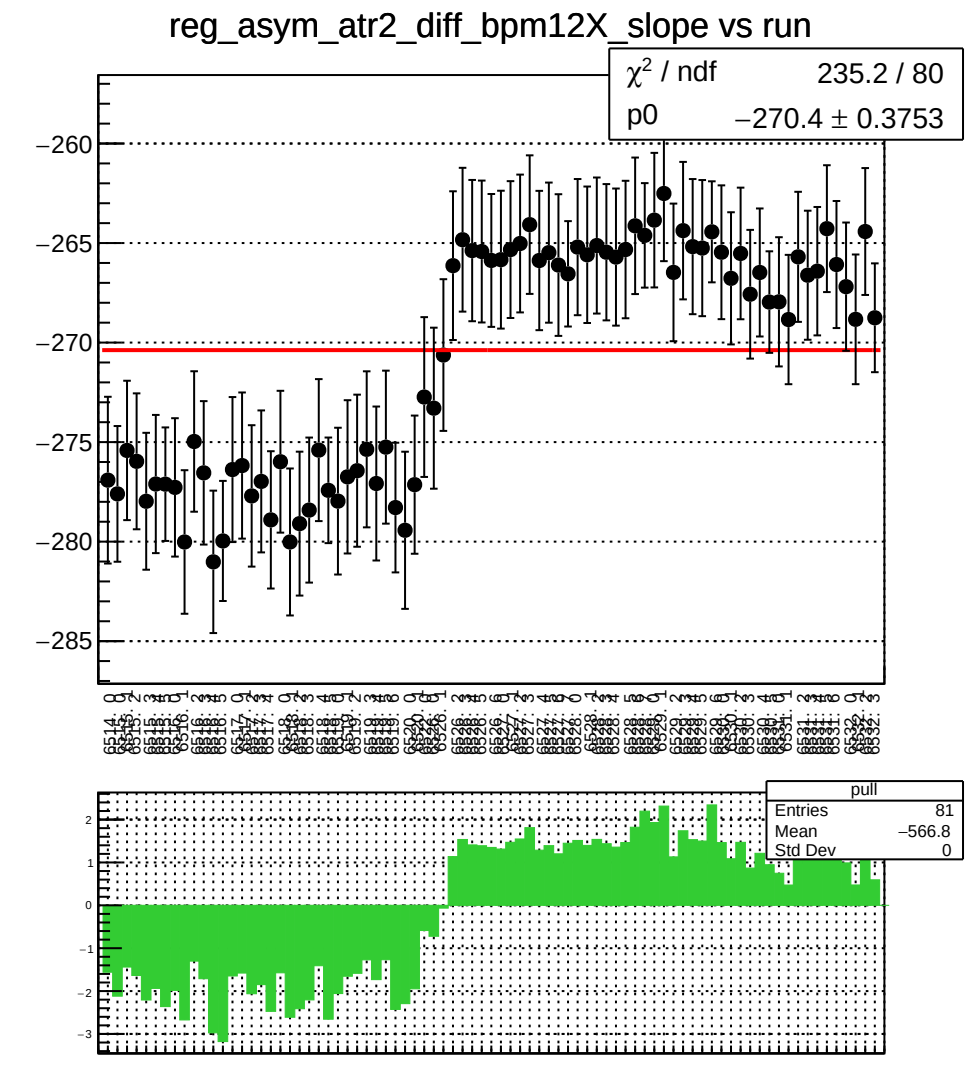

pull1D
Entries 81
Mean −0.1438
Std Dev 0.8198

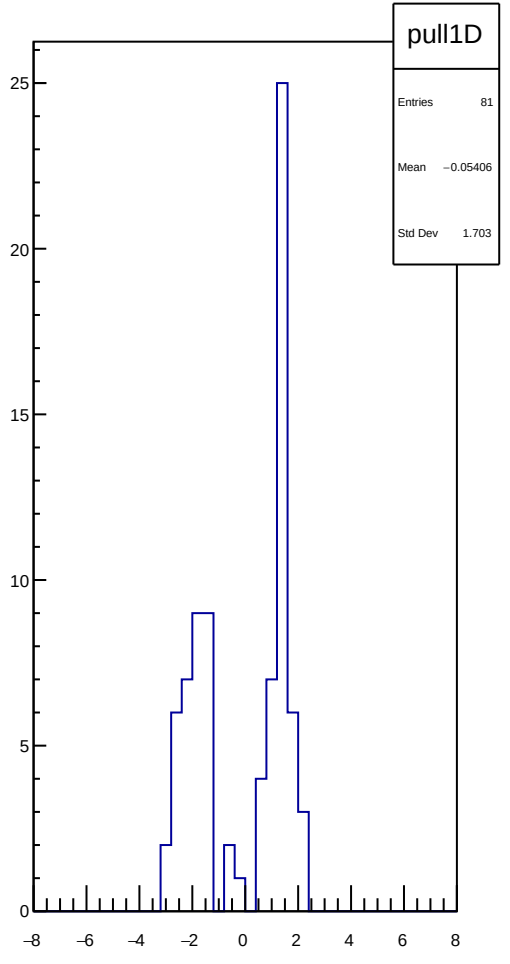

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 94.09 / 80
p0 482.6 ± 9.316
pull
Entries 81
Mean 171.4
Std Dev 0

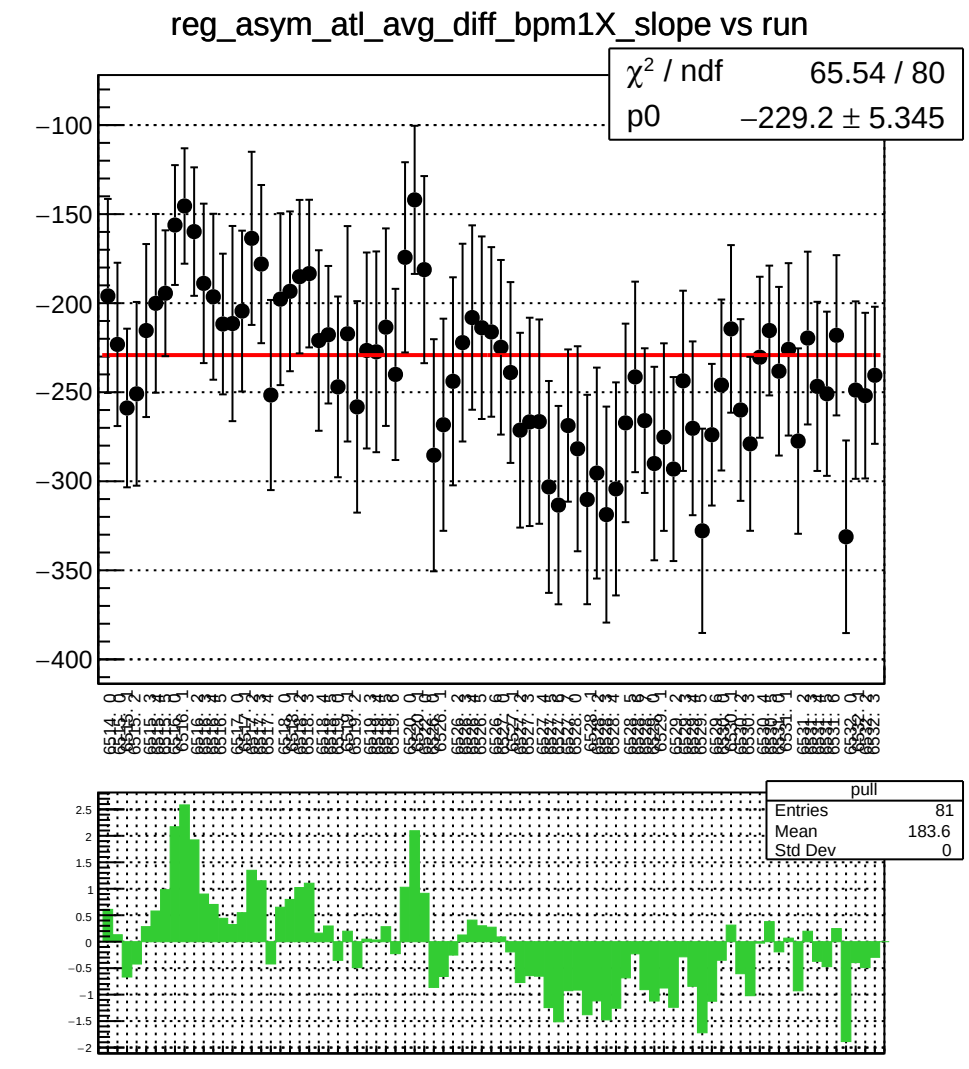

pull1D
Entries 81
Mean 0.108
Std Dev 1.072

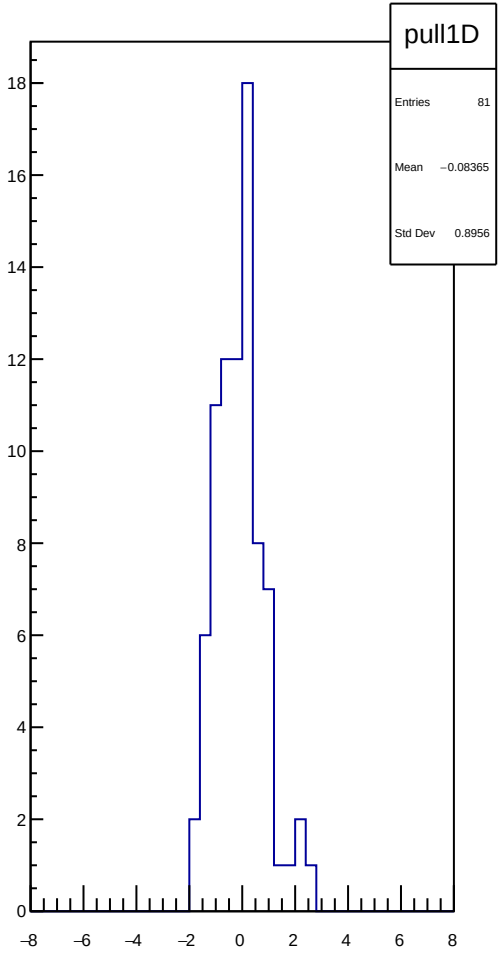

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 51 / 80
p0 178.1 ± 10.03
pull
Entries 81
Mean 123.2
Std Dev 0

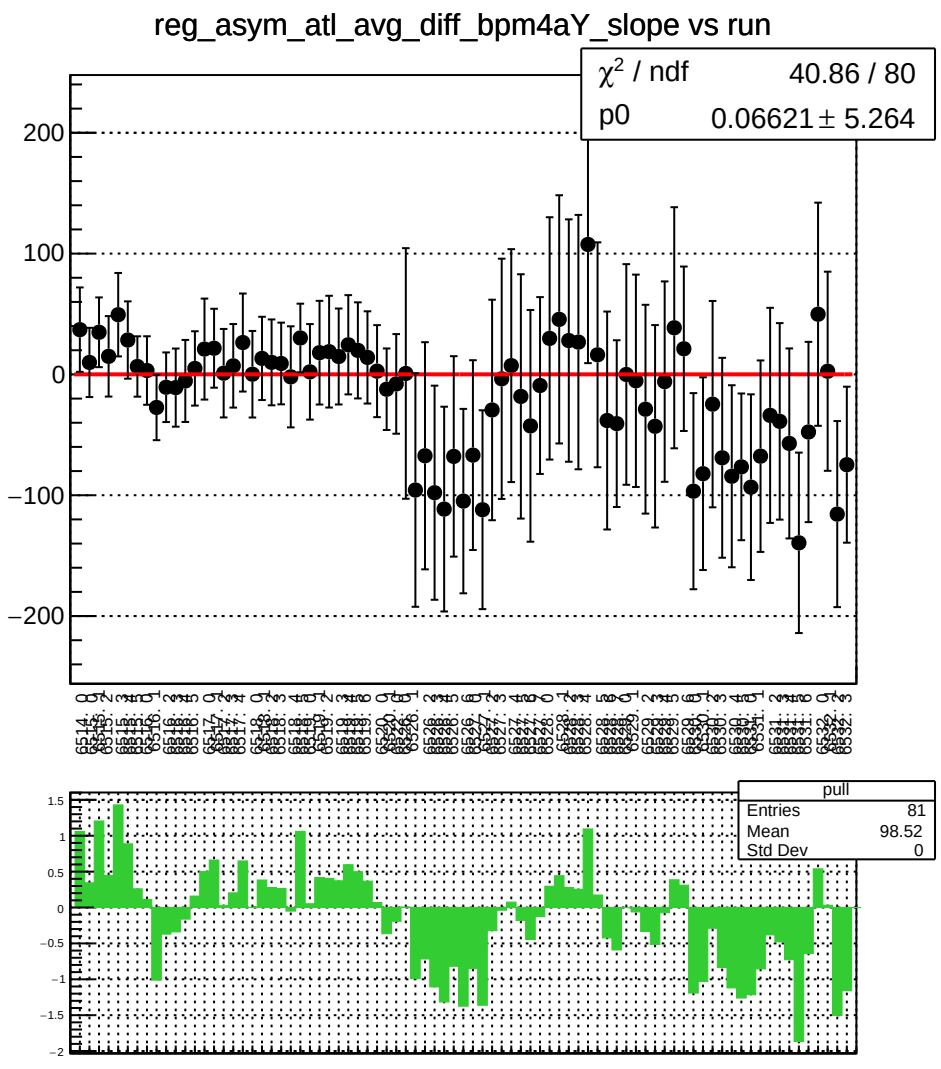

pull1D
Entries 81
Mean 0.08002
Std Dev 0.7895

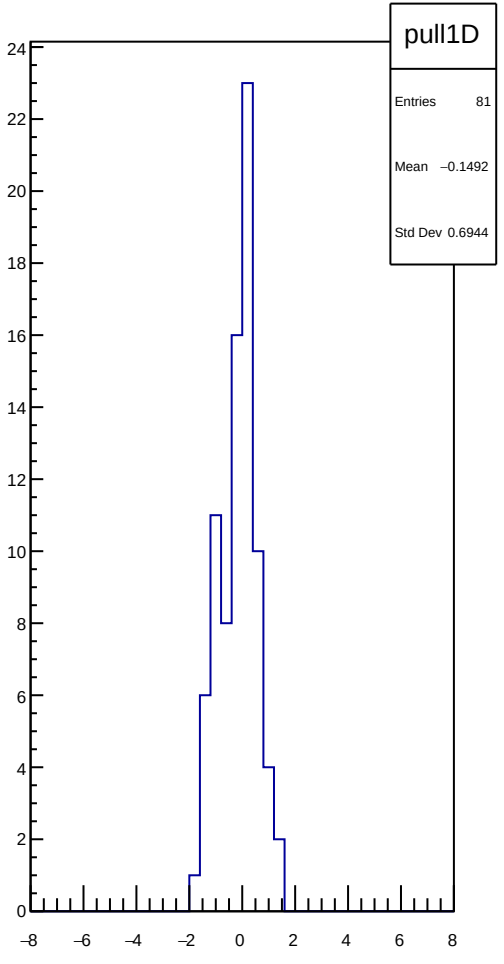

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 235.2 / 80
p0 −270.4 ± 0.3753
−260
−265
−270
−275
−280
−285
pull
Entries 81
Mean −566.8
Std Dev 0
2
1
0
−1
−2
−3

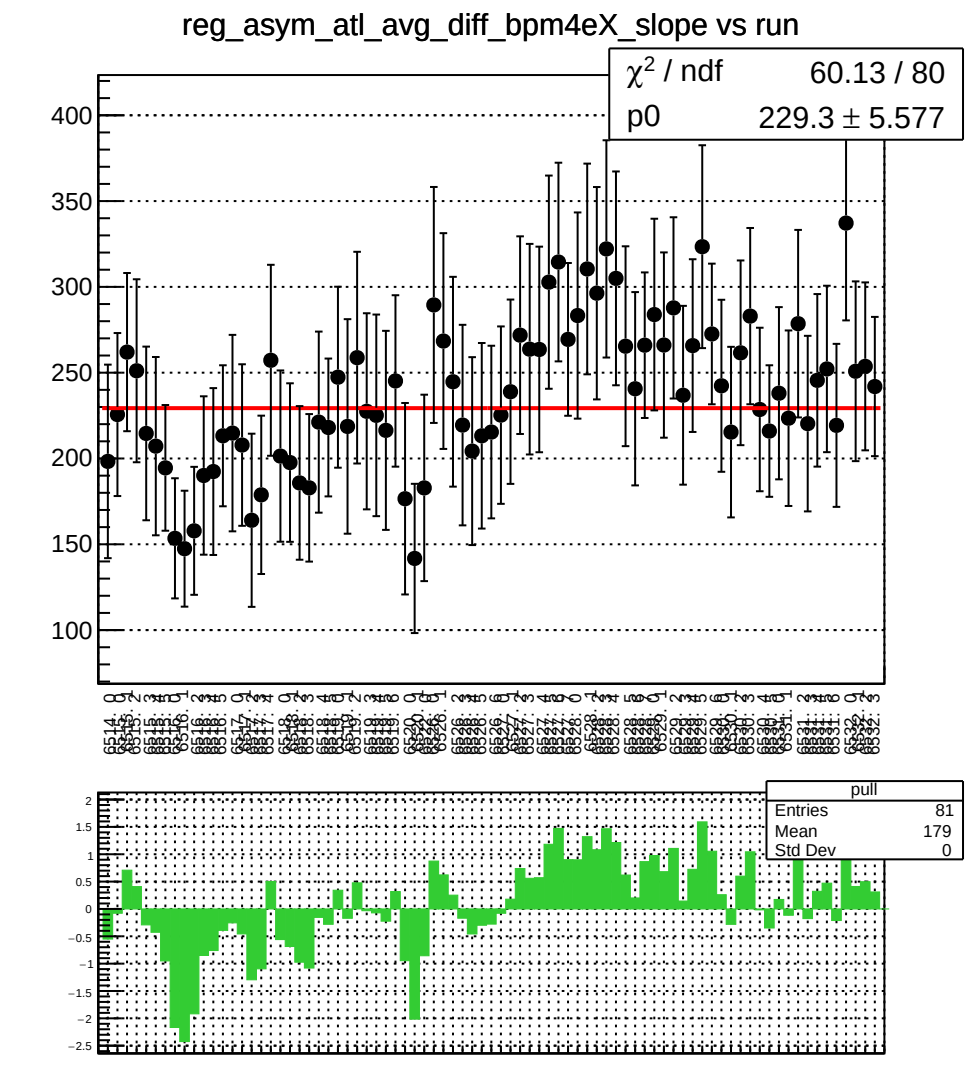

pull1D
Entries 81
Mean −0.05406
Std Dev 1.703
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

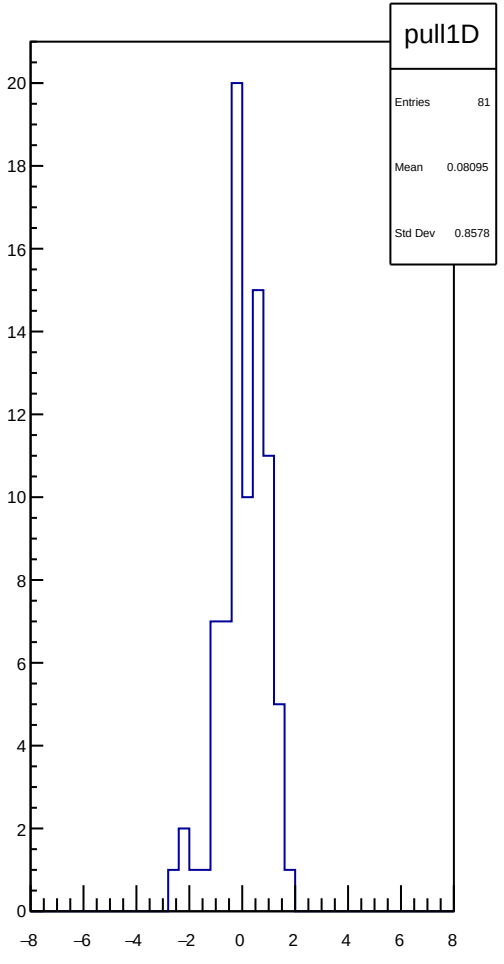

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 65.54 / 80
p0 −229.2 ± 5.345
pull
Entries 81
Mean 183.6
Std Dev 0

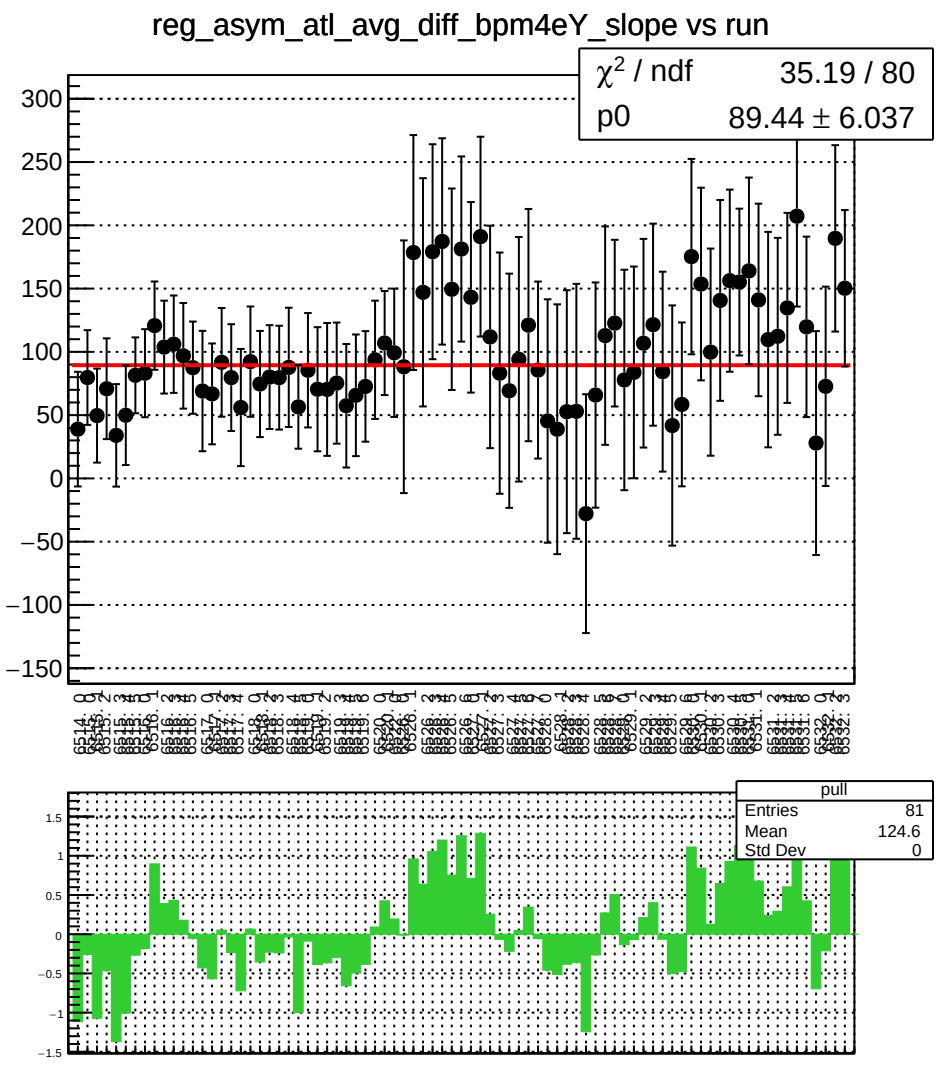

pull1D
Entries 81
Mean −0.08365
Std Dev 0.8956

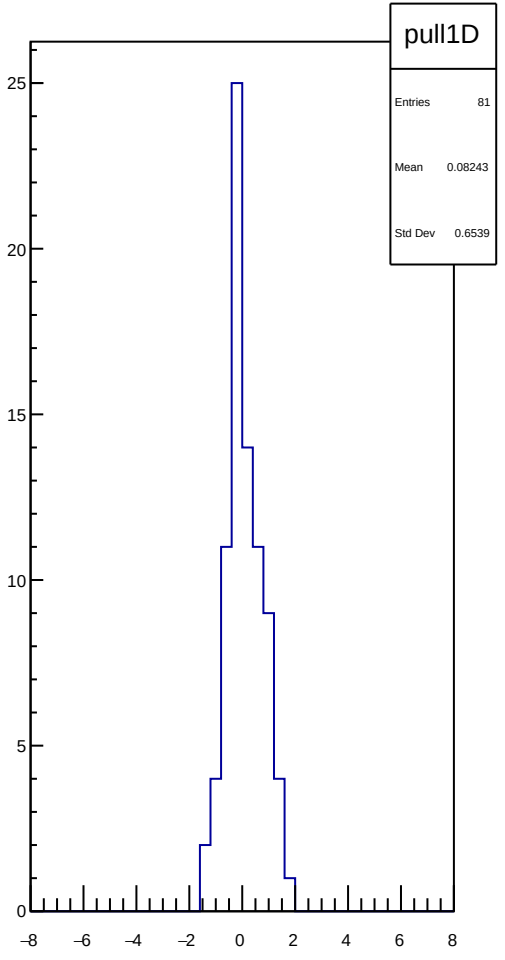

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 40.86 / 80
p0 0.06621 ± 5.264
pull
Entries 81
Mean 98.52
Std Dev 0

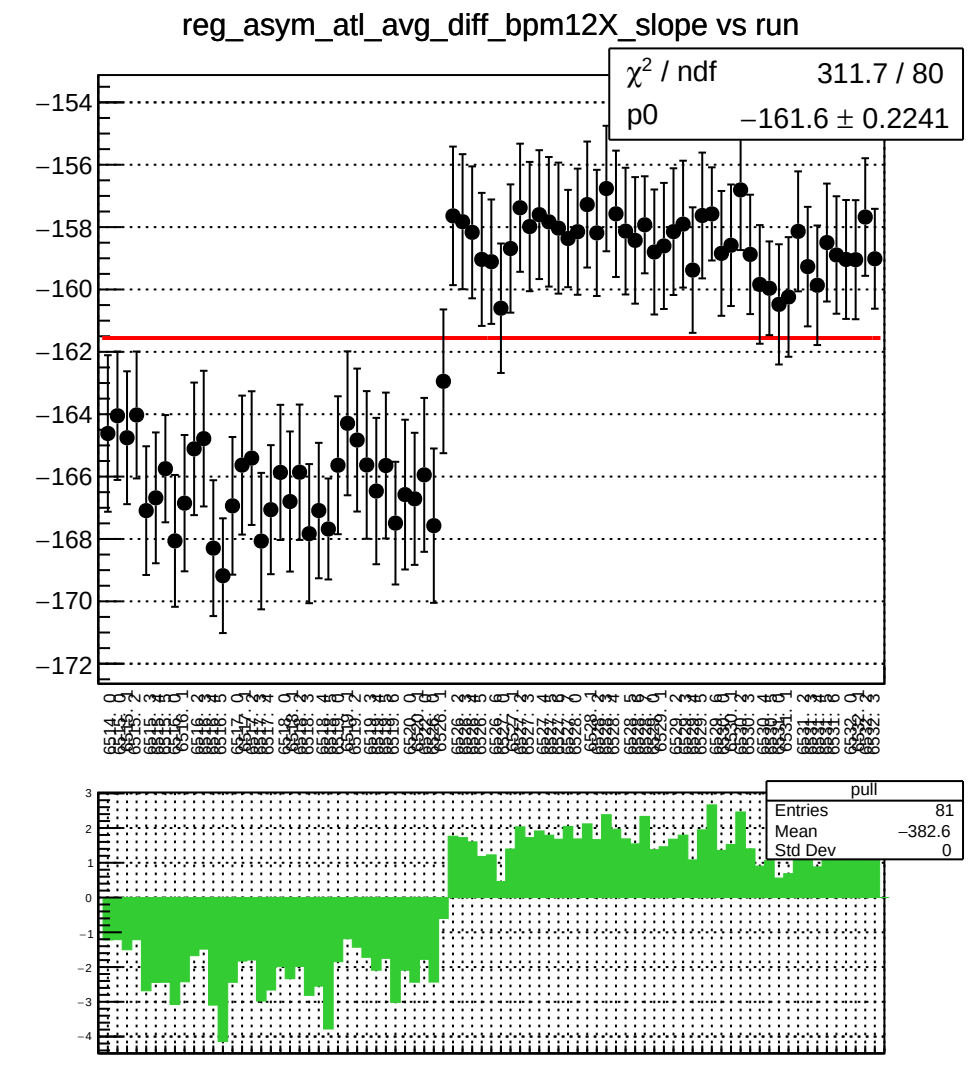

pull1D
Entries 81
Mean −0.1492
Std Dev 0.6944

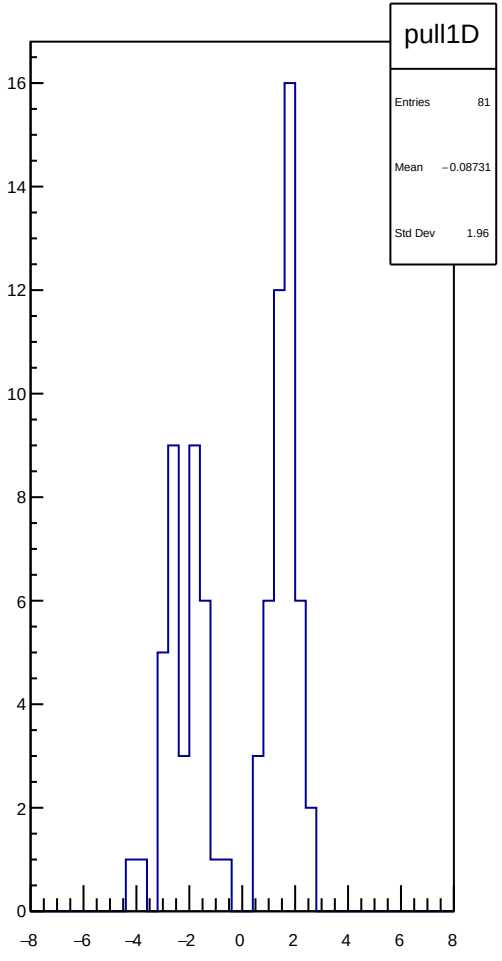

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 60.13 / 80
p0 229.3 ± 5.577
pull
Entries 81
Mean 179
Std Dev 0

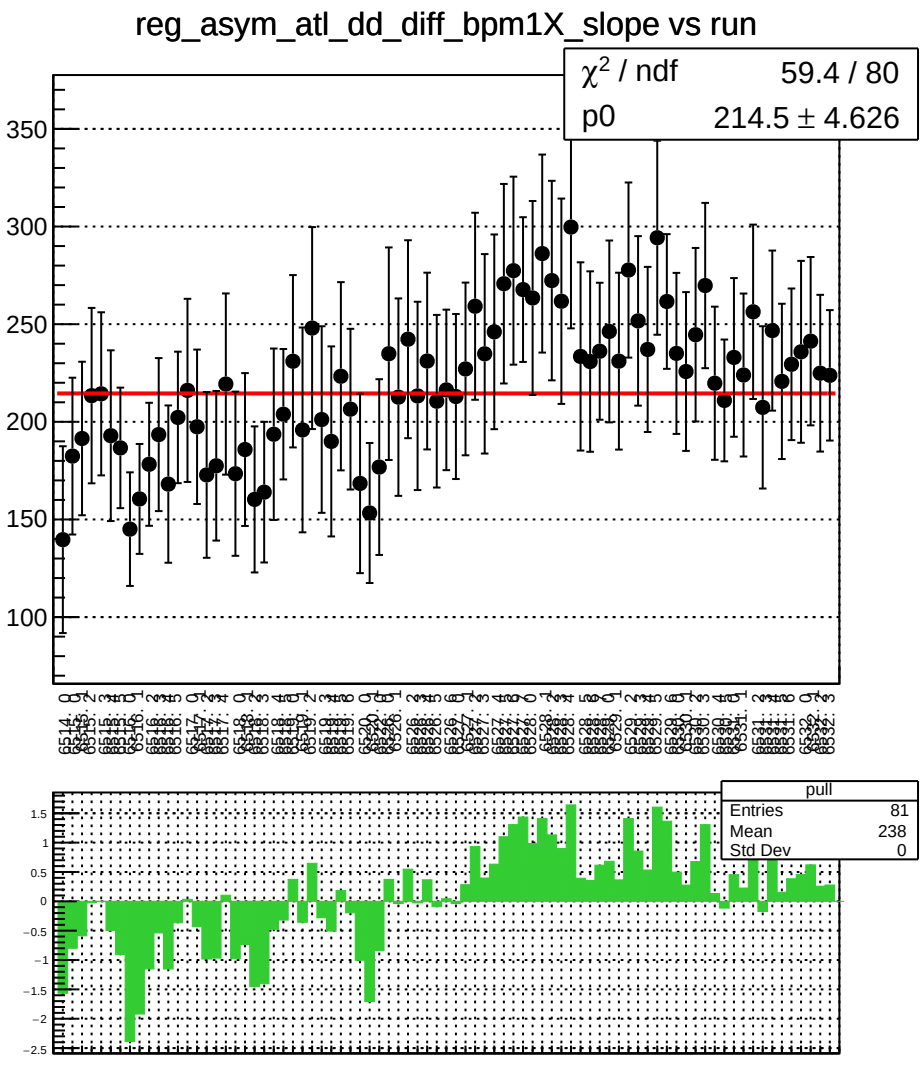

pull1D
Entries 81
Mean 0.08095
Std Dev 0.8578

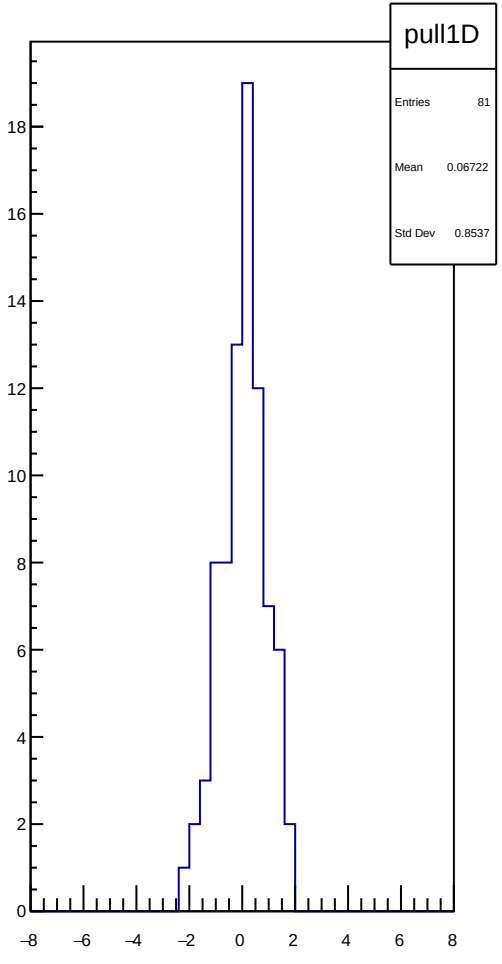

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 35.19 / 80
p0 89.44 ± 6.037
pull
Entries 81
Mean 124.6
Std Dev 0

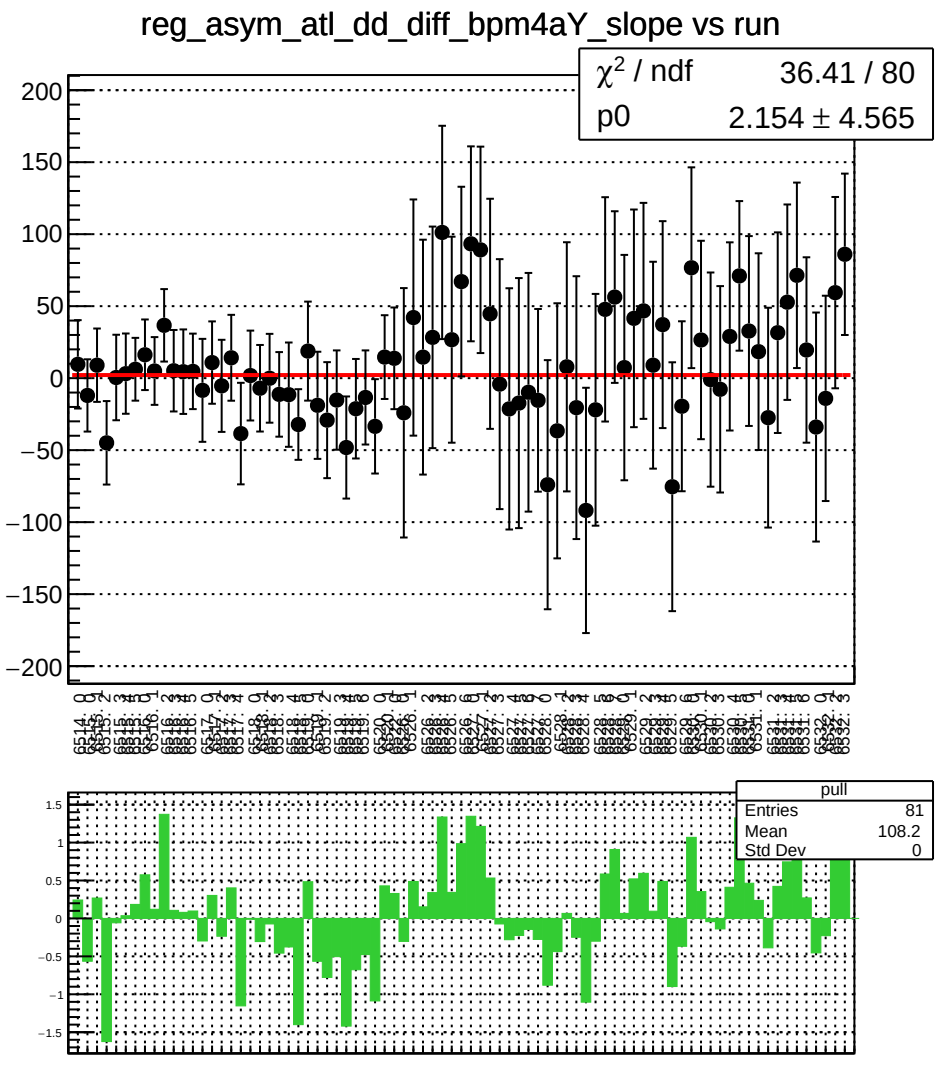

pull1D
Entries 81
Mean 0.08243
Std Dev 0.6539

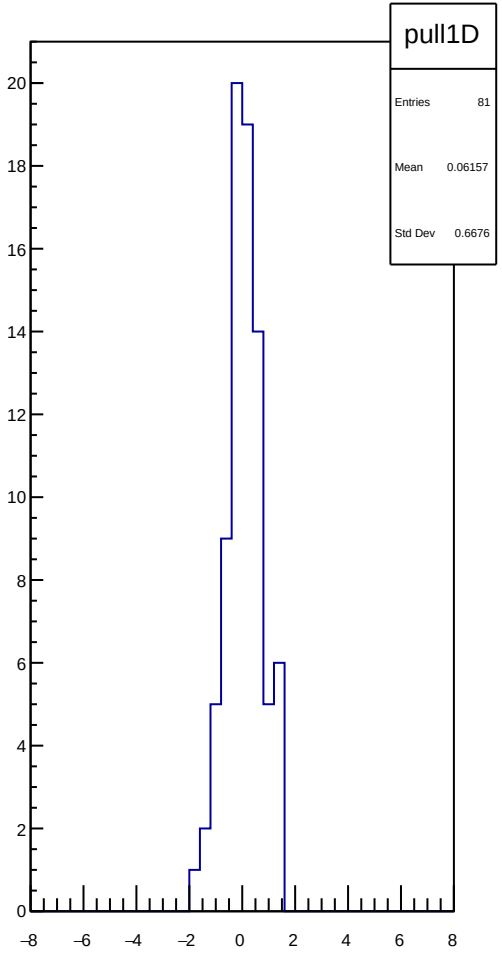

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 311.7 / 80
p0 −161.6 ± 0.2241
pull
Entries 81
Mean −382.6
Std Dev 0

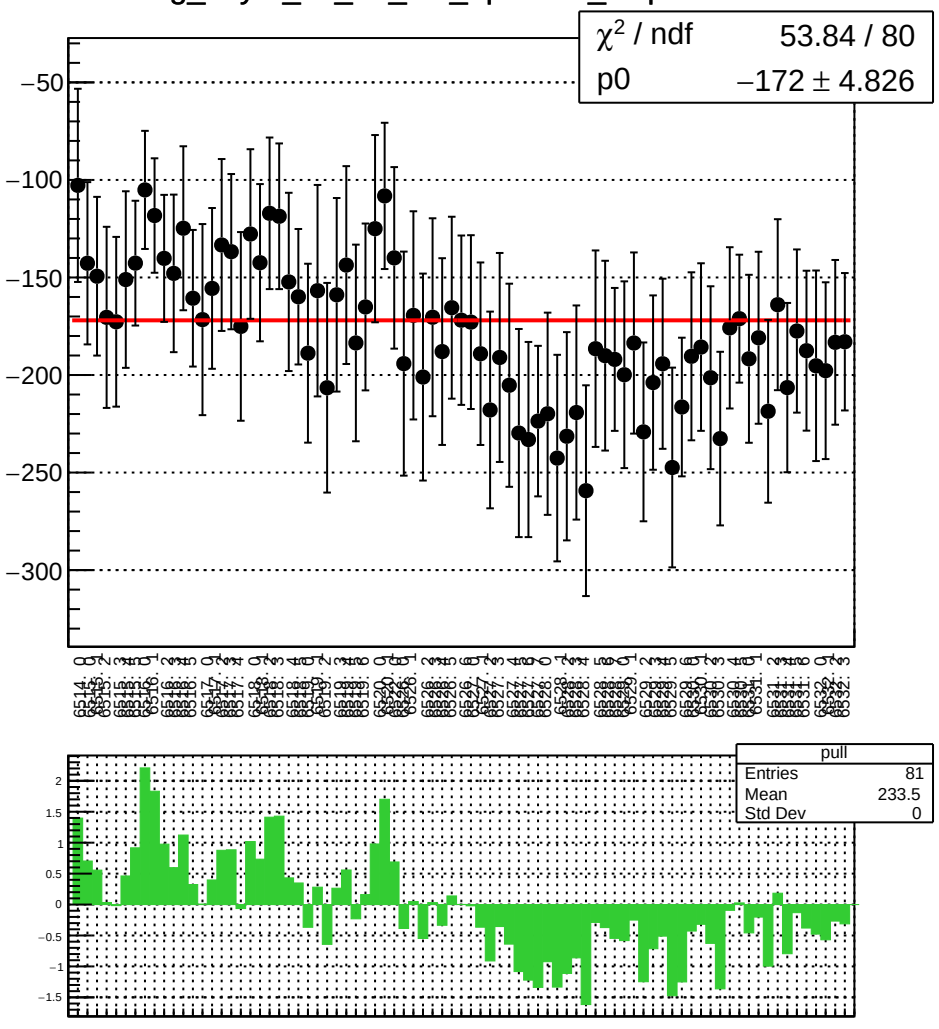

pull1D
Entries 81
Mean −0.08731
Std Dev 1.96

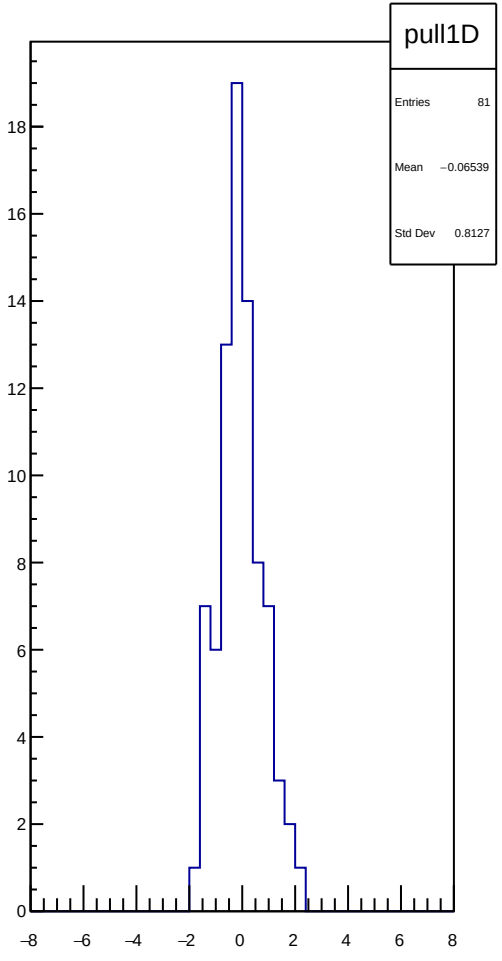

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 59.4 / 80
p0 214.5 ± 4.626
pull
Entries 81
Mean 238
Std Dev 0

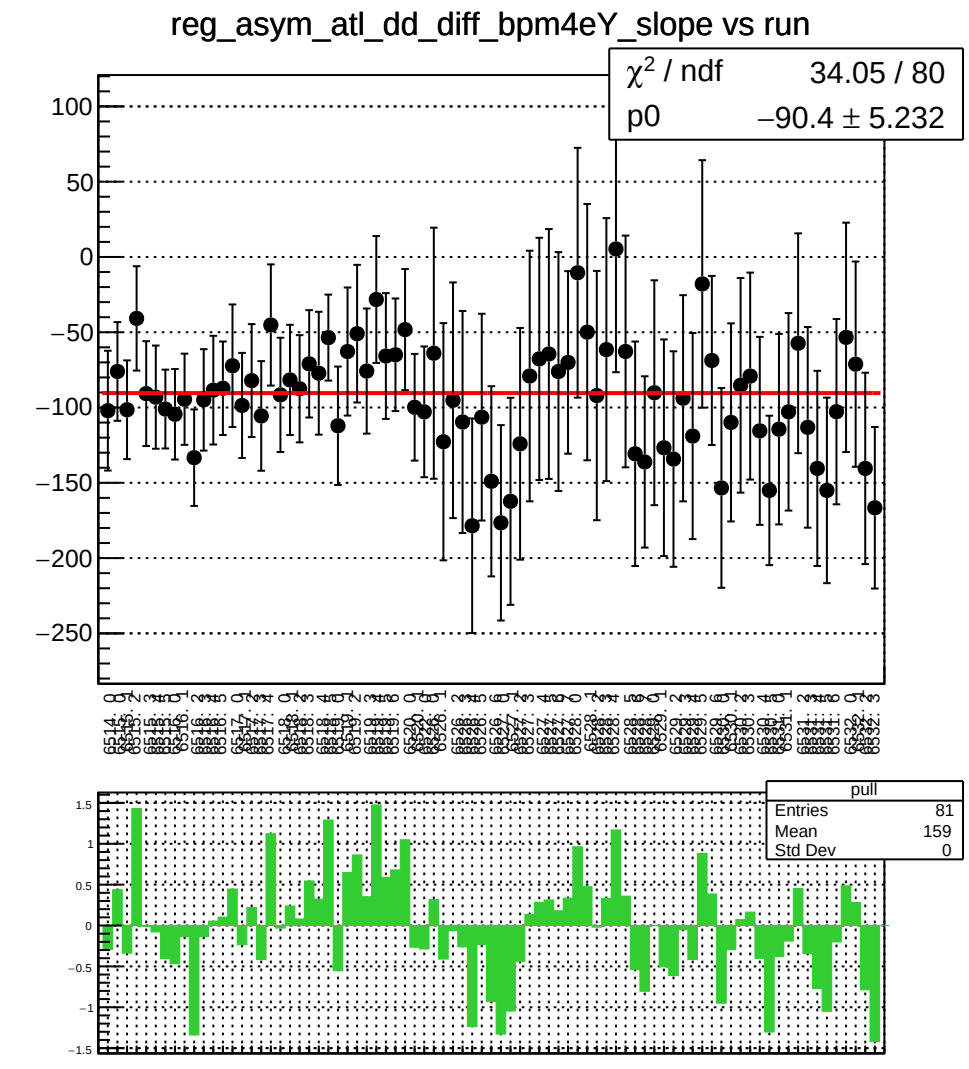

pull1D
Entries 81
Mean 0.06722
Std Dev 0.8537

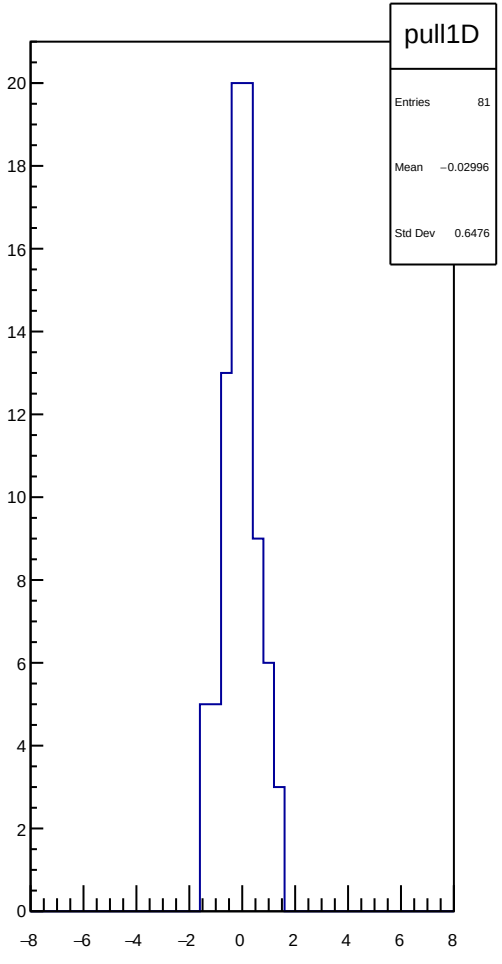

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 36.41 / 80
p0 2.154 ± 4.565
pull
Entries 81
Mean 108.2
Std Dev 0

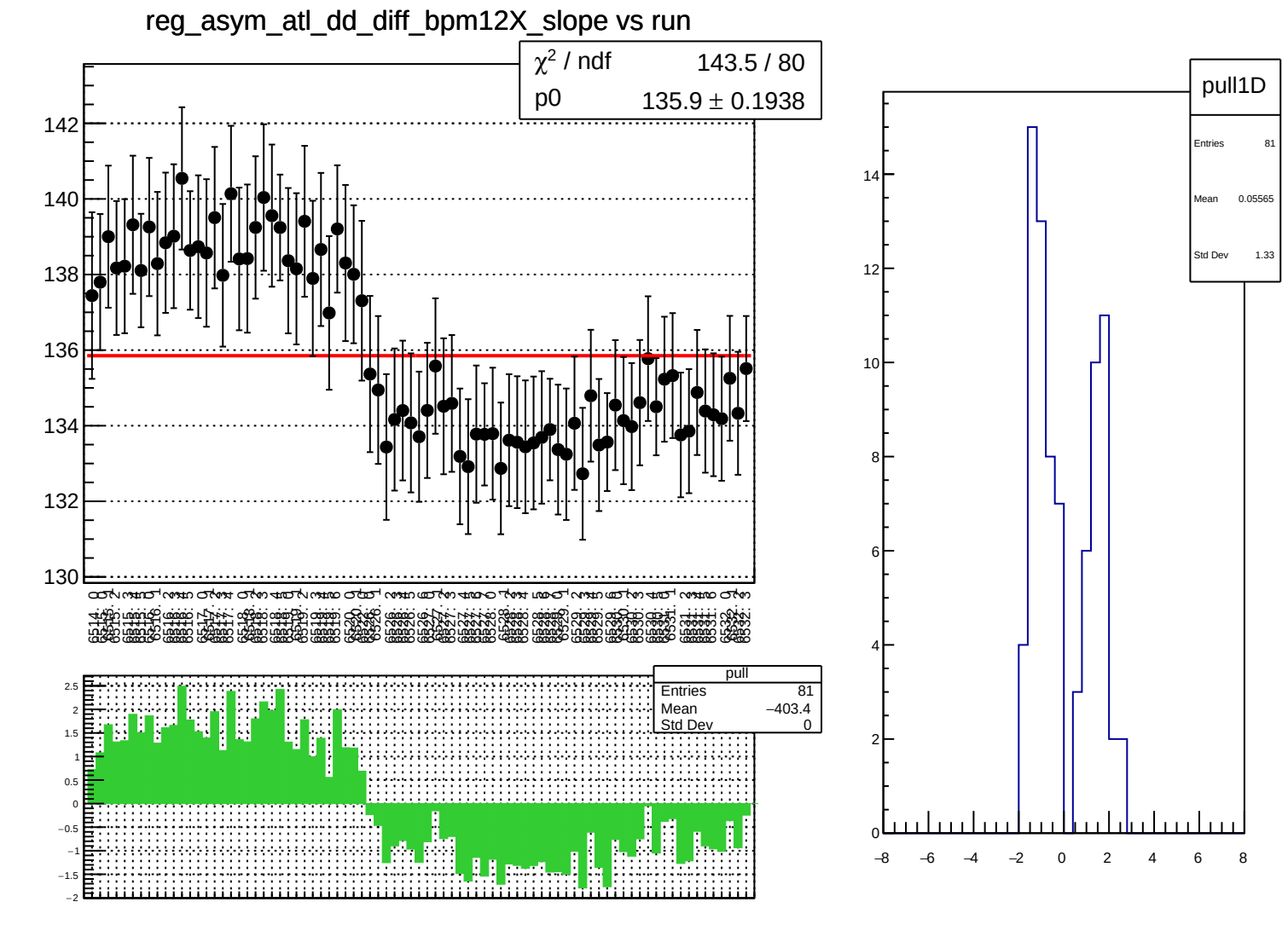

pull1D
Entries 81
Mean 0.06157
Std Dev 0.6676

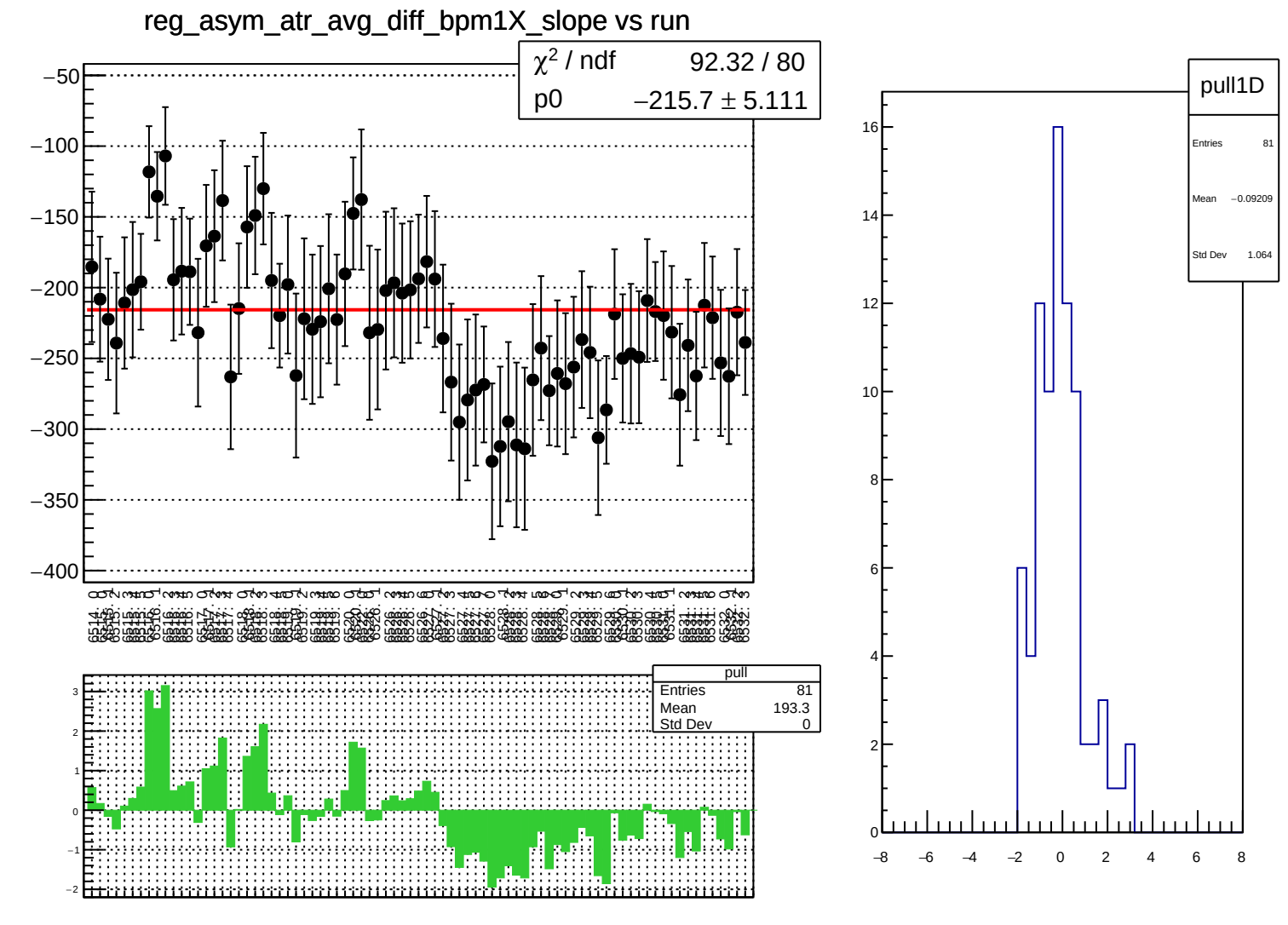

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 53.84 / 80
p0 −172 ± 4.826
pull
Entries 81
Mean 233.5
Std Dev 0

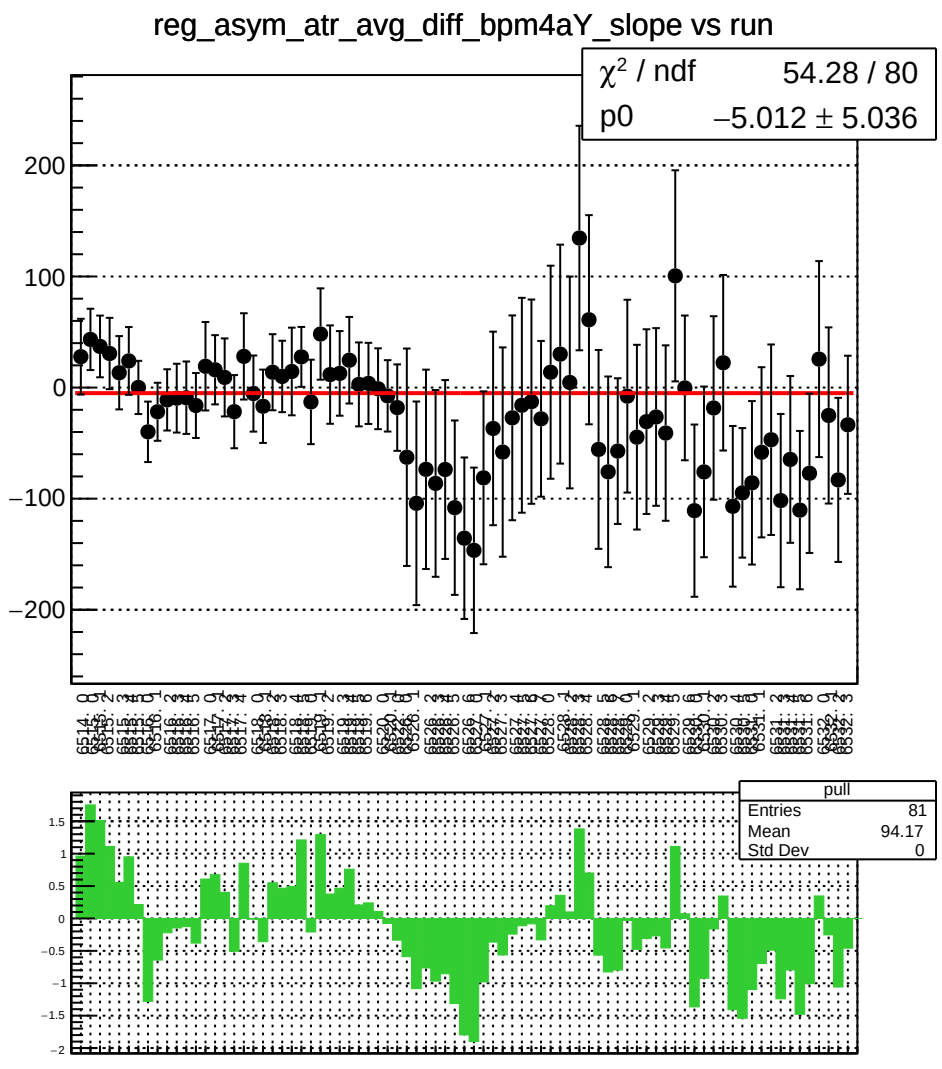

pull1D
Entries 81
Mean −0.06539
Std Dev 0.8127

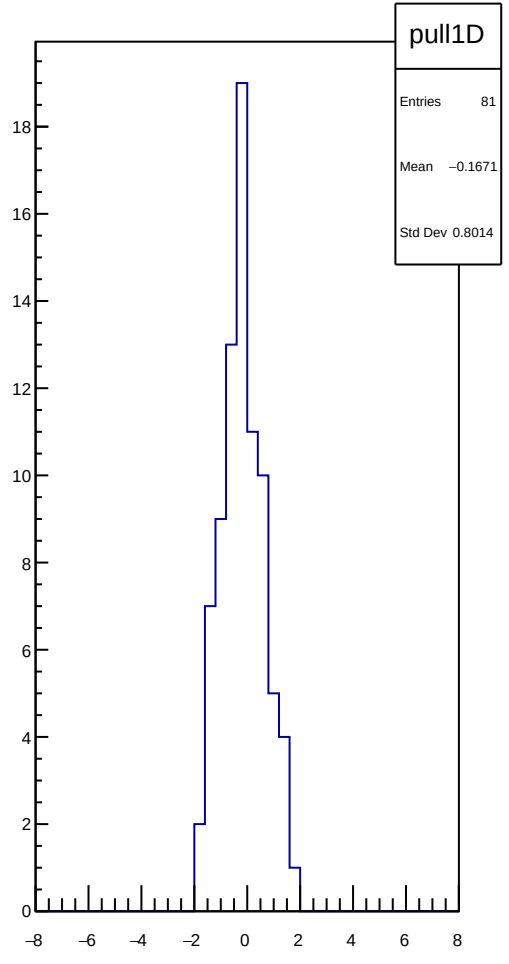

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 34.05 / 80
p0 −90.4 ± 5.232
pull
Entries 81
Mean 159
Std Dev 0

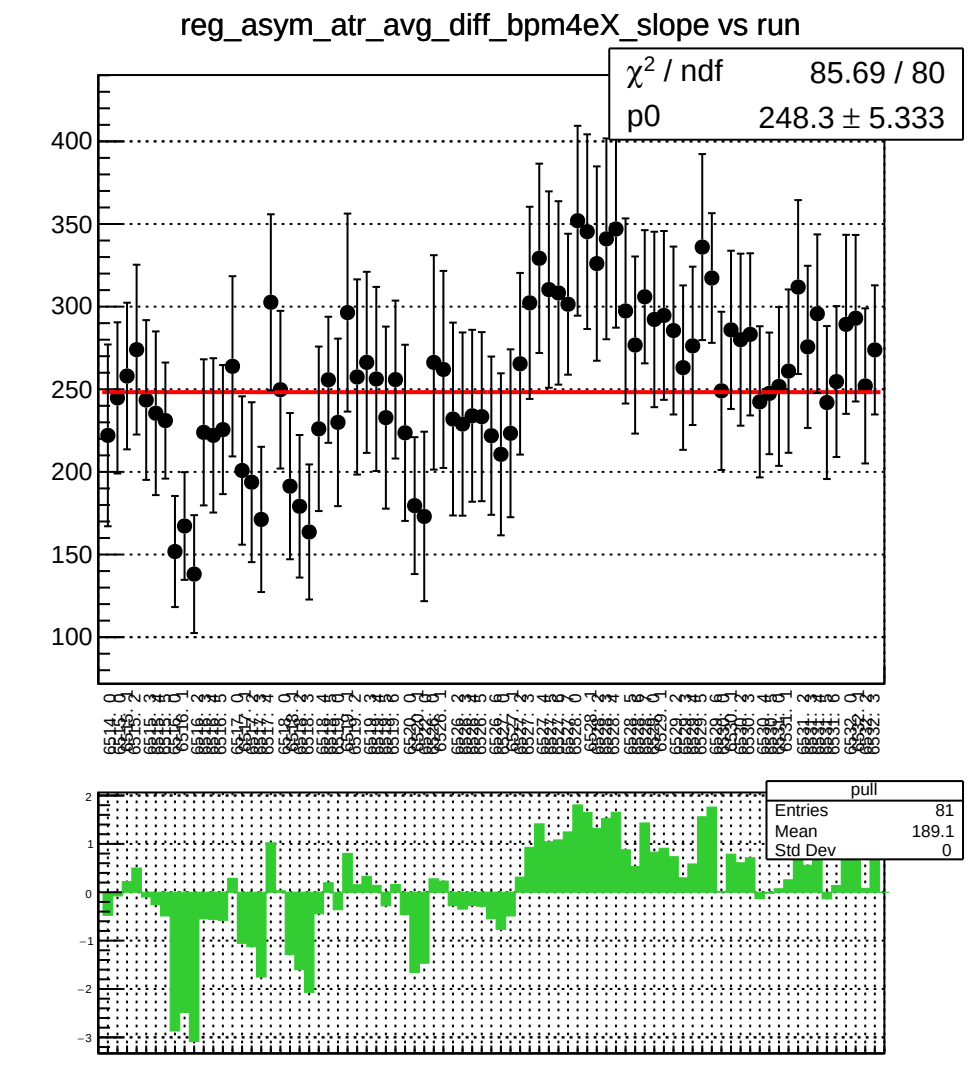

pull1D
Entries 81
Mean −0.02996
Std Dev 0.6476

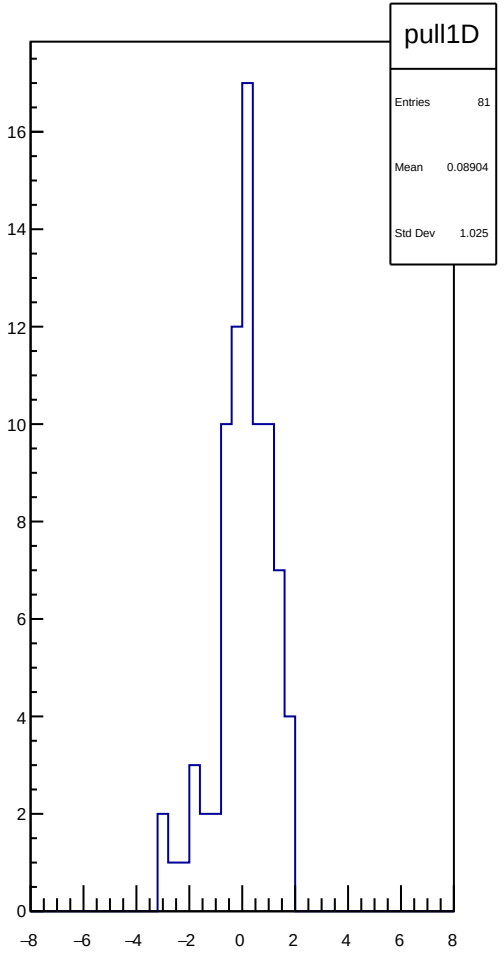

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 143.5 / 80
p0 135.9 ± 0.1938
142
140
138
136
134
132
130
pull
Entries 81
Mean −403.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 81
Mean 0.05565
Std Dev 1.33
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

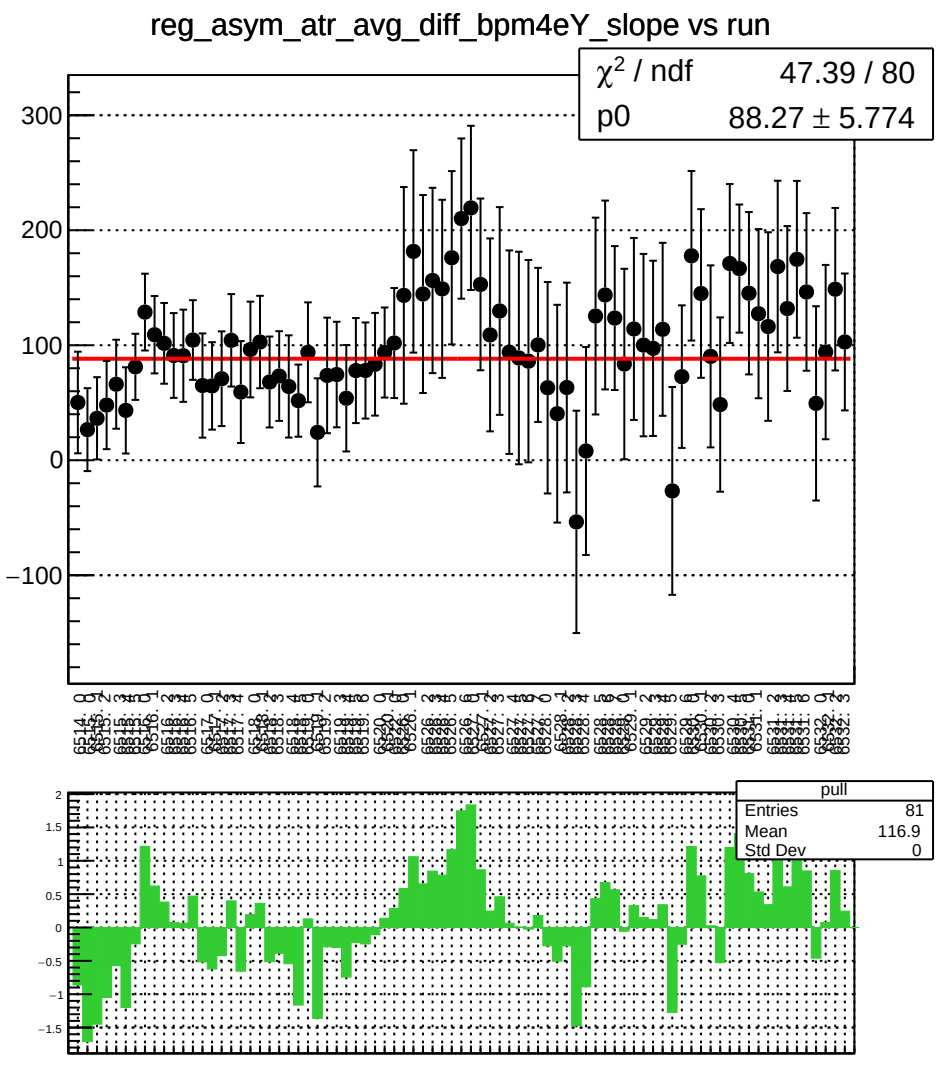

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 92.32 / 80
p0 −215.7 ± 5.111
pull
Entries 81
Mean 193.3
Std Dev 0
pull1D
Entries 81
Mean −0.09209
Std Dev 1.064

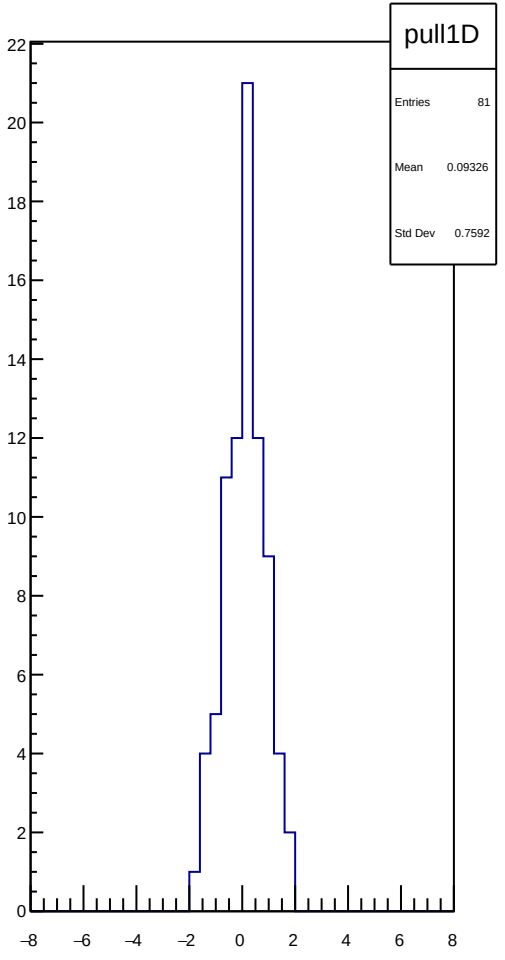

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 54.28 / 80
p0 −5.012 ± 5.036
200
100
0
−100
−200
pull
Entries 81
Mean 94.17
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

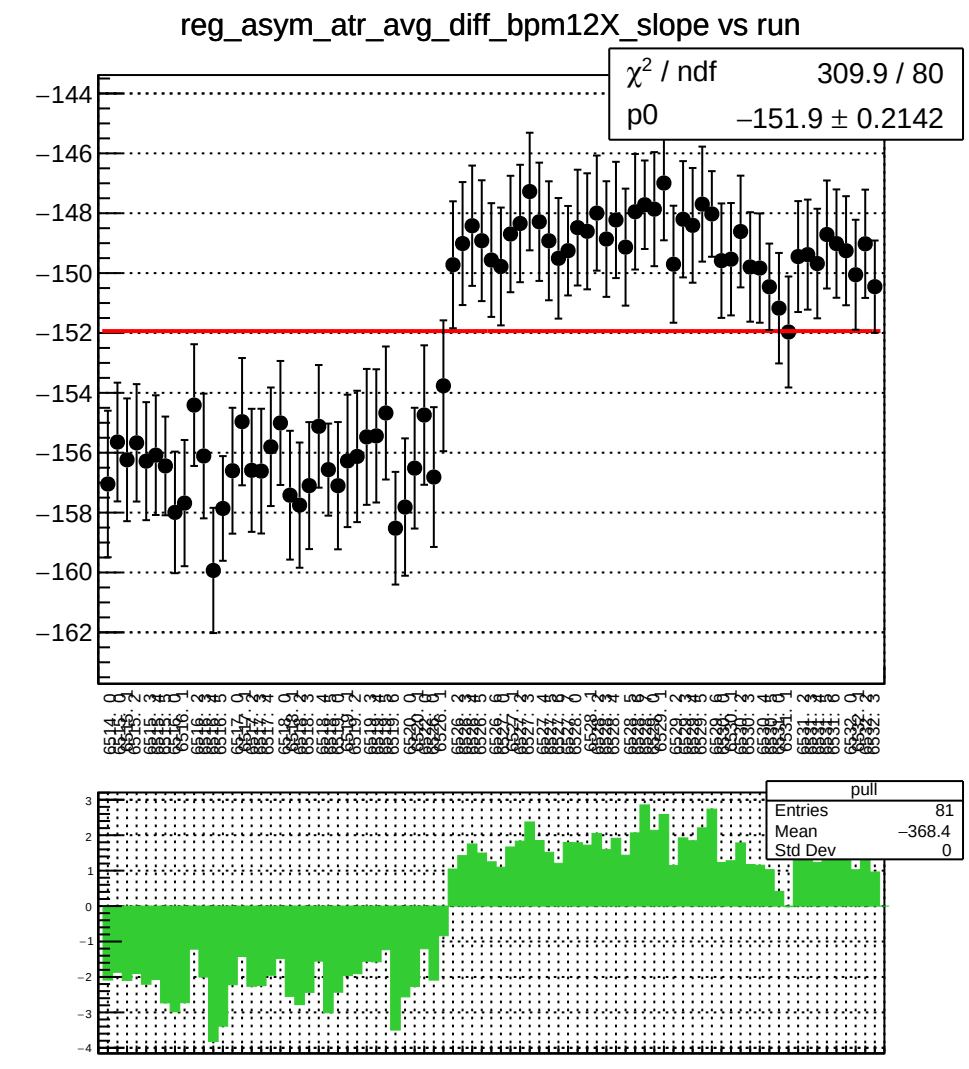

pull1D
Entries 81
Mean −0.1671
Std Dev 0.8014
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

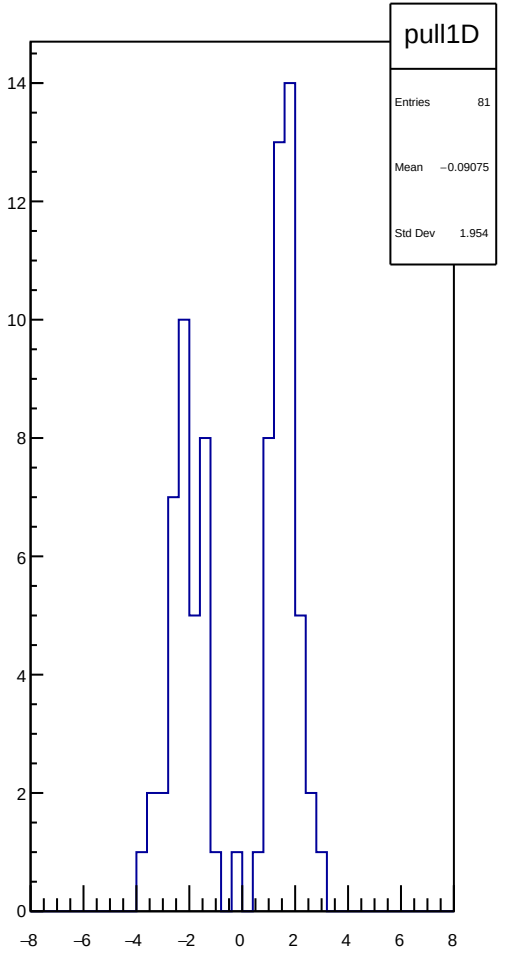

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 85.69 / 80
p0 248.3 ± 5.333
pull
Entries 81
Mean 189.1
Std Dev 0

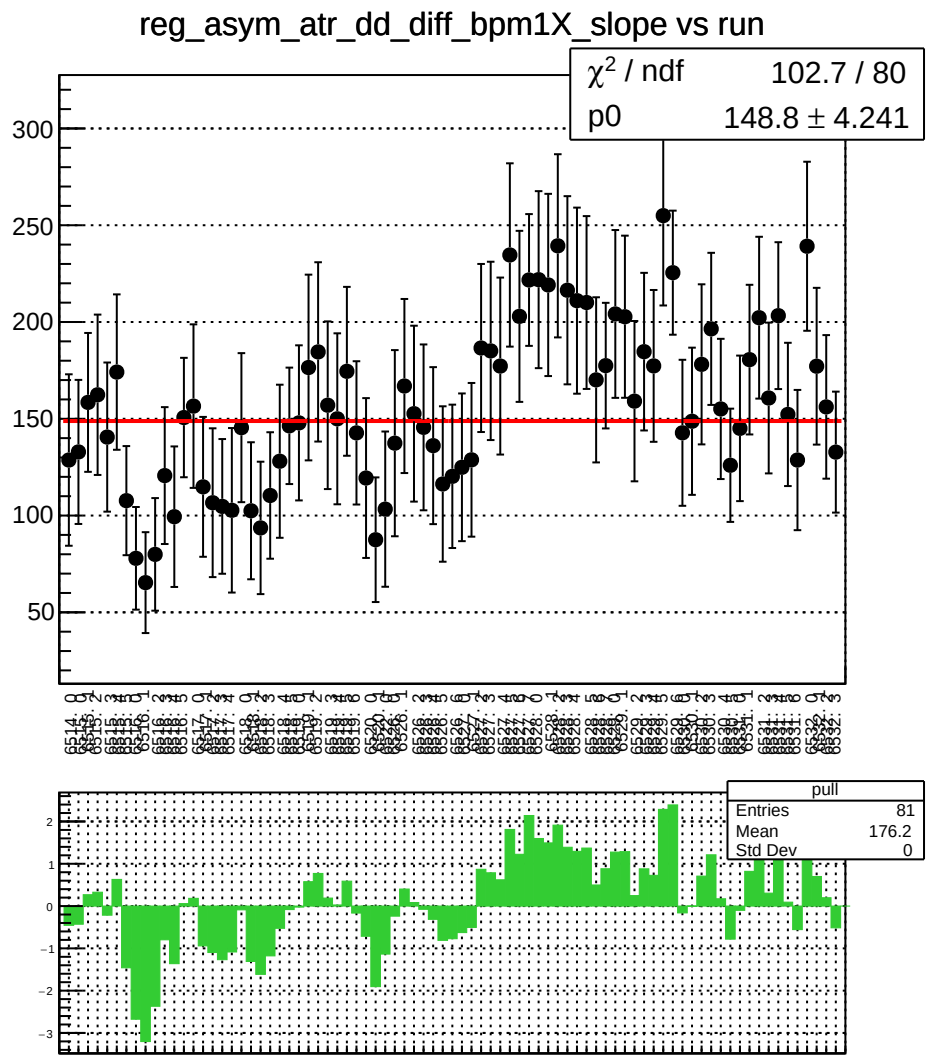

pull1D
Entries 81
Mean 0.08904
Std Dev 1.025

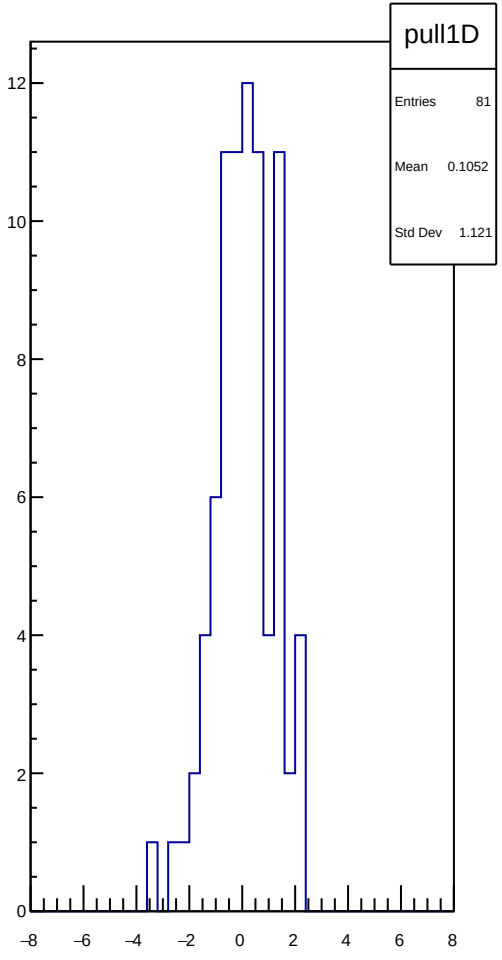

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 47.39 / 80
p0 88.27 ± 5.774
pull
Entries 81
Mean 116.9
Std Dev 0

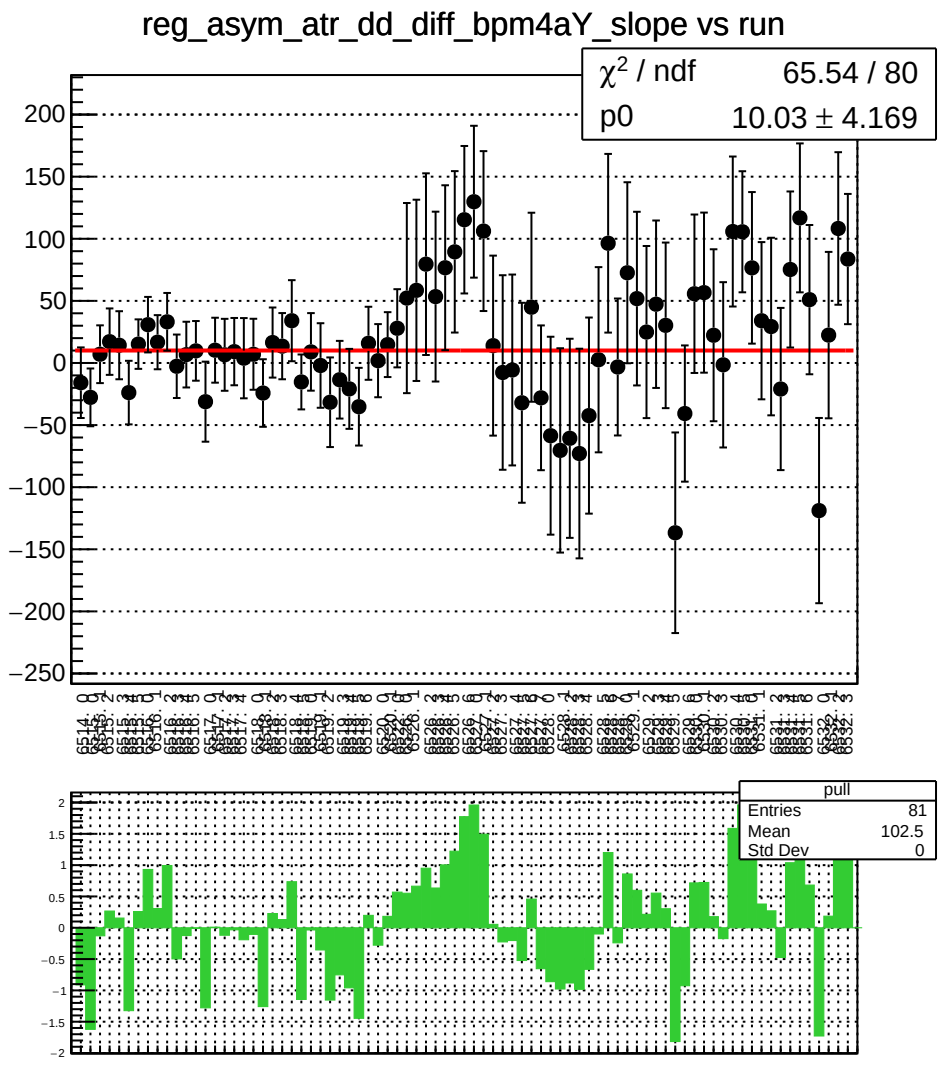

pull1D
Entries 81
Mean 0.09326
Std Dev 0.7592

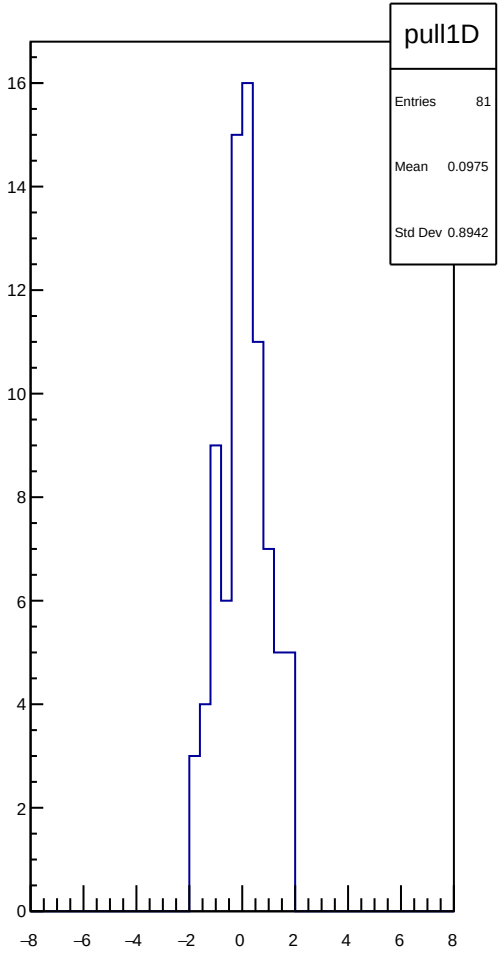

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 309.9 / 80
p0 −151.9 ± 0.2142
pull
Entries 81
Mean −368.4
Std Dev 0

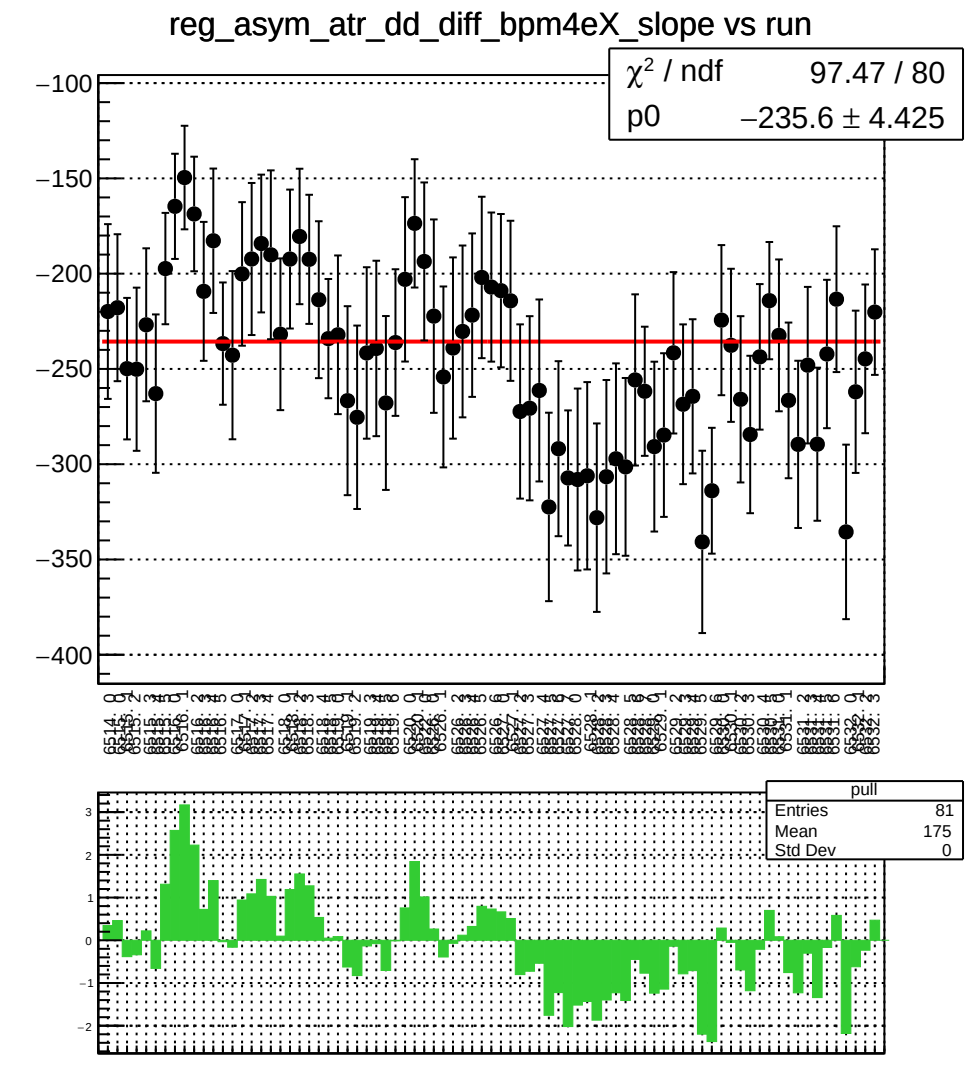

pull1D
Entries 81
Mean −0.09075
Std Dev 1.954

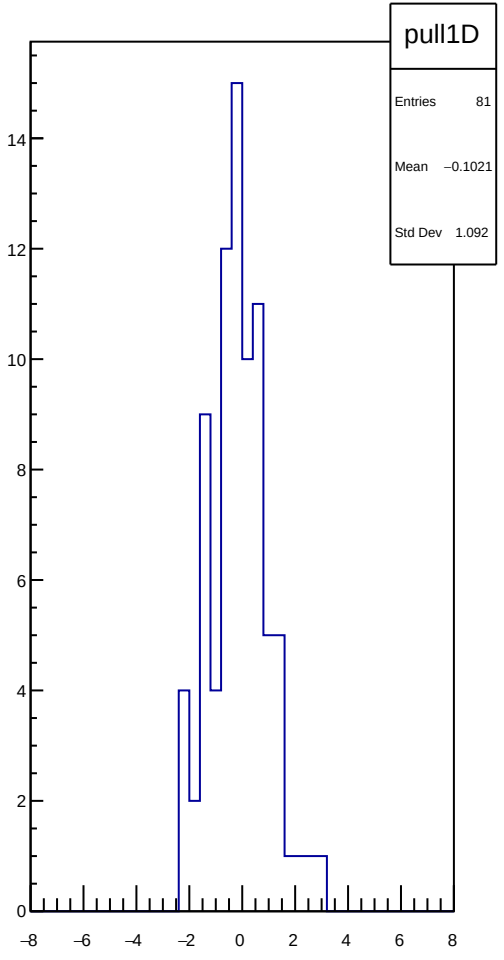

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 102.7 / 80
p0 148.8 ± 4.241
pull
Entries 81
Mean 176.2
Std Dev 0

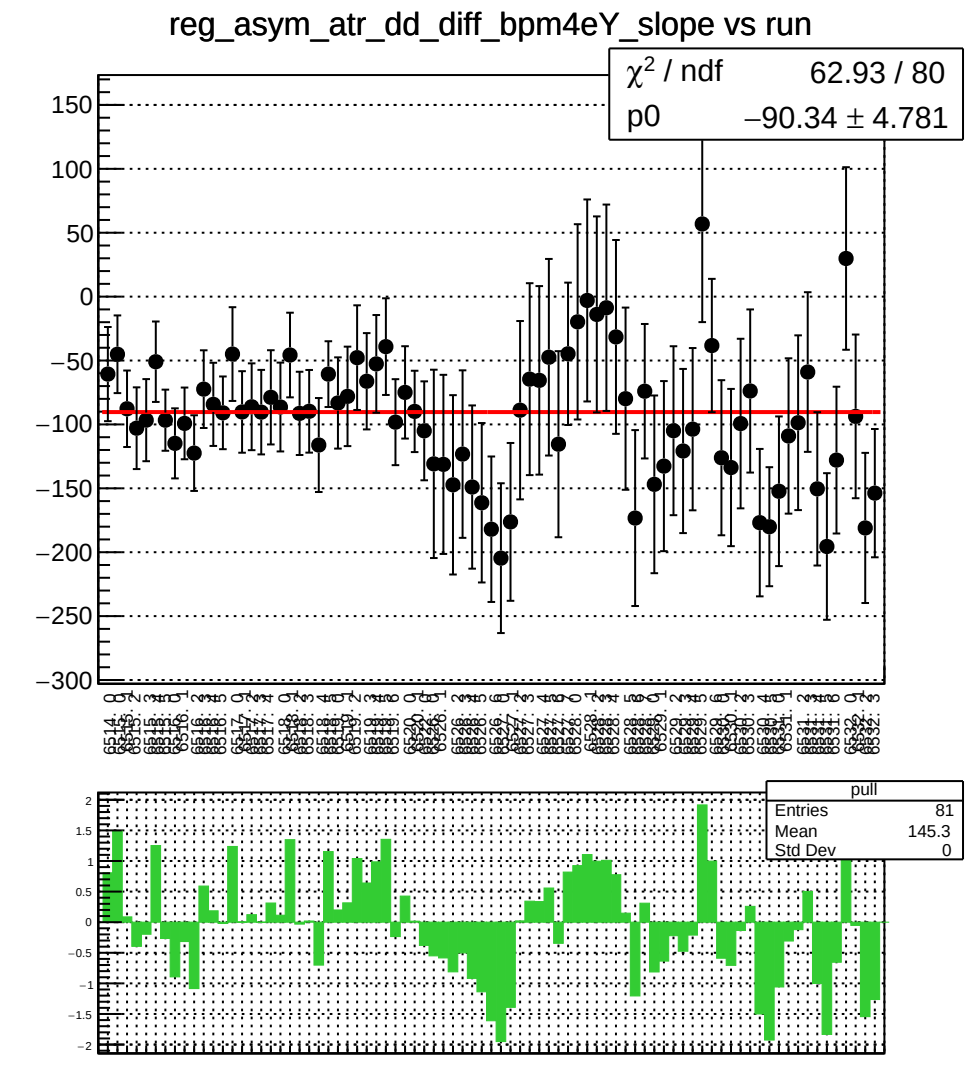

pull1D
Entries 81
Mean 0.1052
Std Dev 1.121

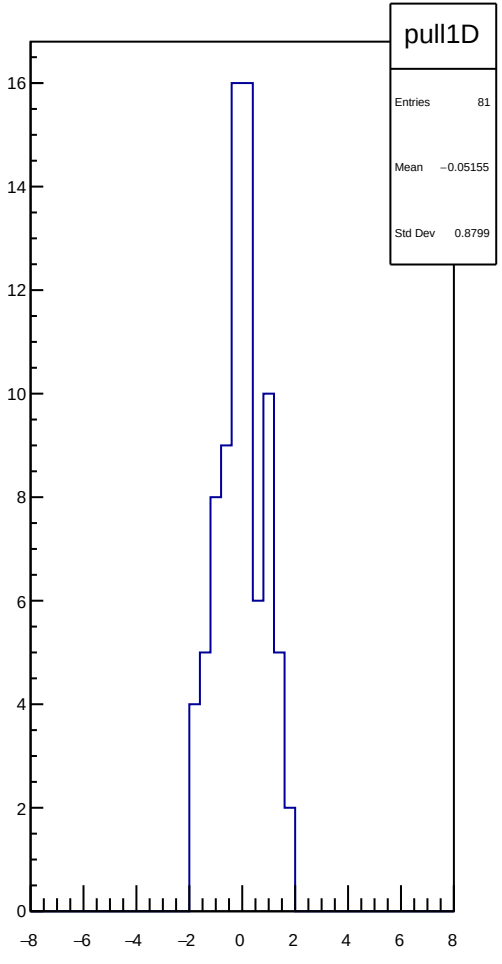

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 65.54 / 80
p0 10.03 ± 4.169
pull
Entries 81
Mean 102.5
Std Dev 0

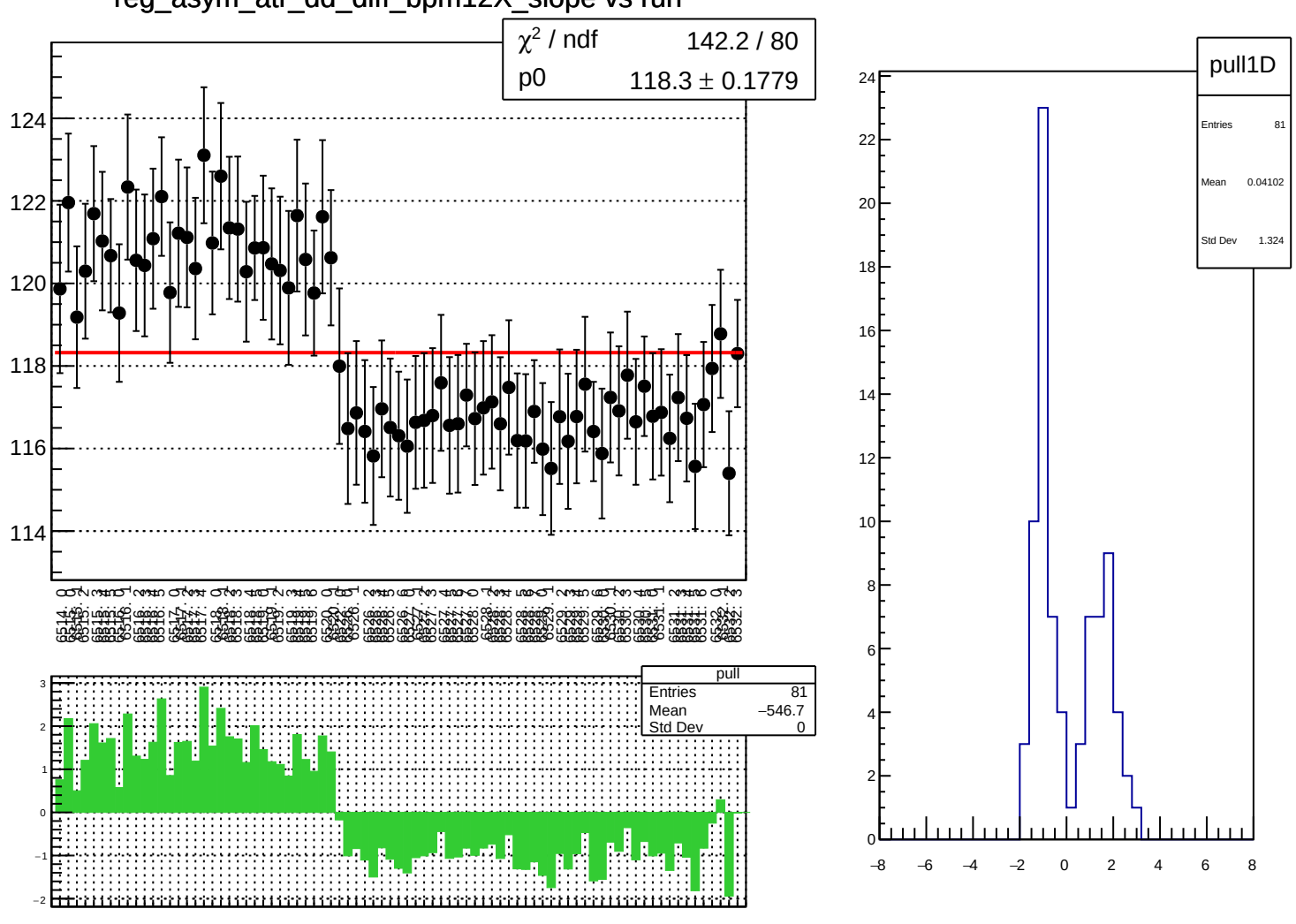

pull1D
Entries 81
Mean 0.0975
Std Dev 0.8942

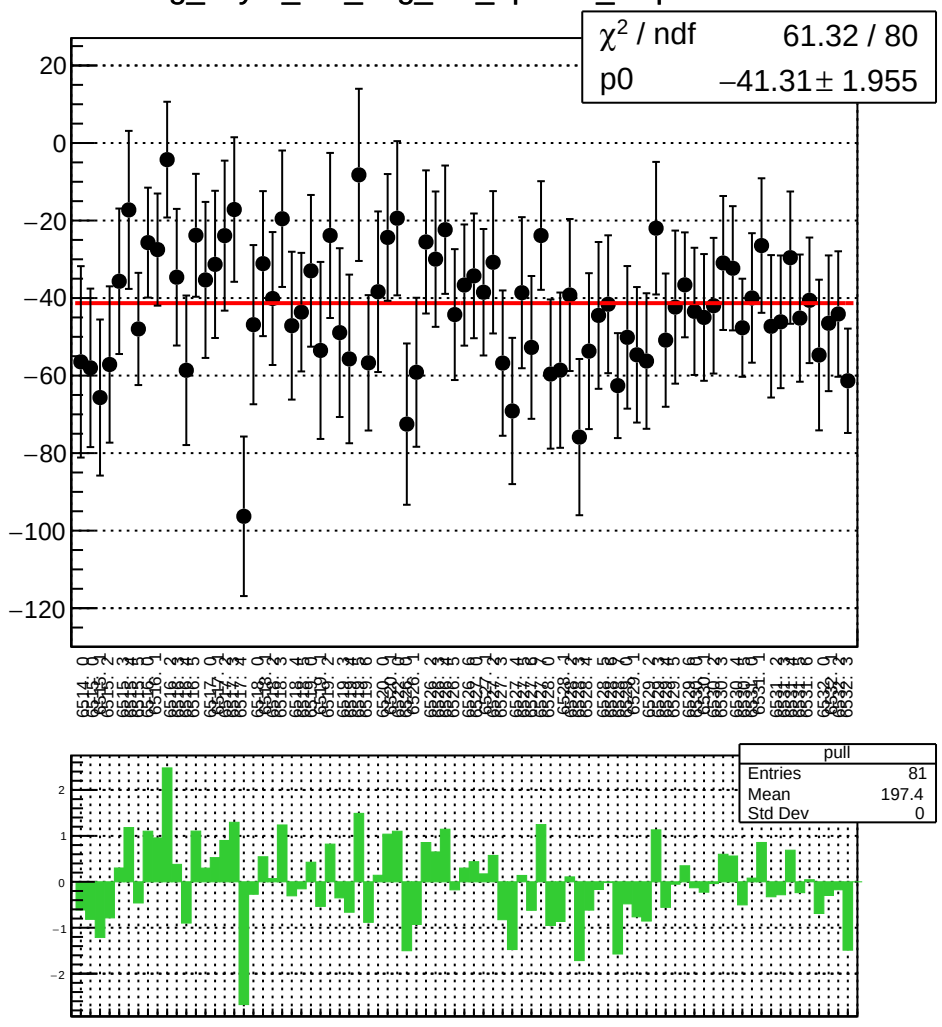

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 97.47 / 80
p0 −235.6 ± 4.425
pull
Entries 81
Mean 175
Std Dev 0

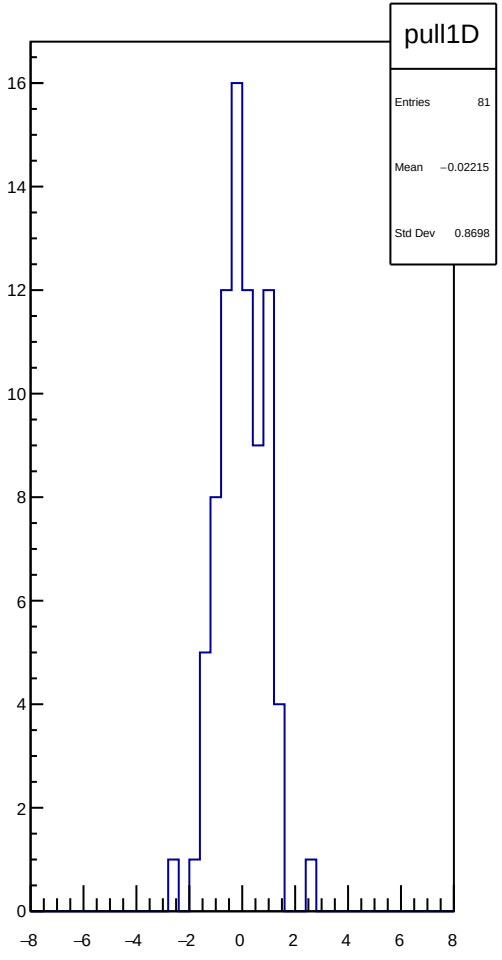

pull1D
Entries 81
Mean −0.1021
Std Dev 1.092

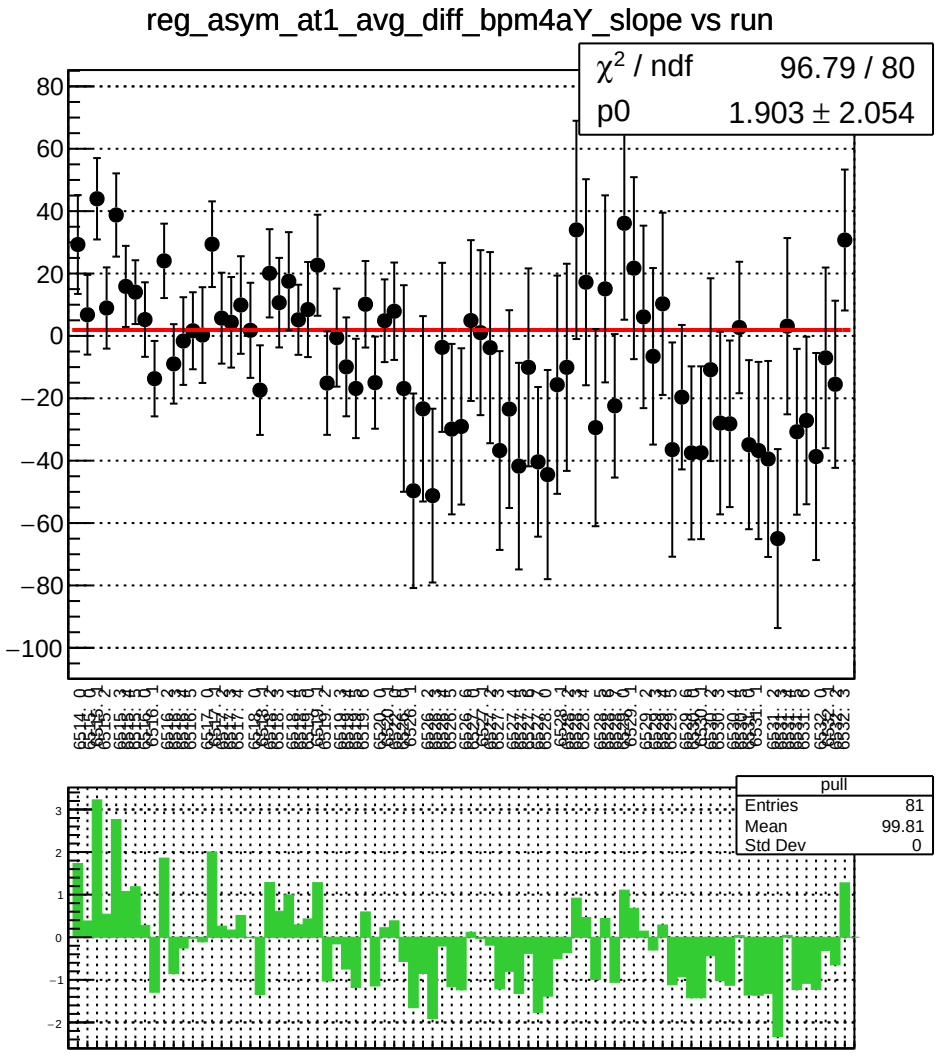

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 62.93 / 80
p0 −90.34 ± 4.781
pull
Entries 81
Mean 145.3
Std Dev 0

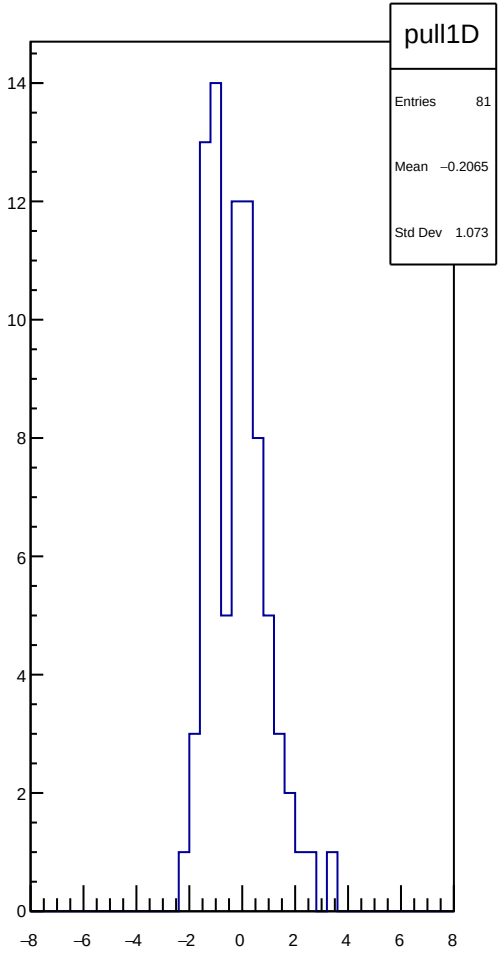

pull1D
Entries 81
Mean −0.05155
Std Dev 0.8799

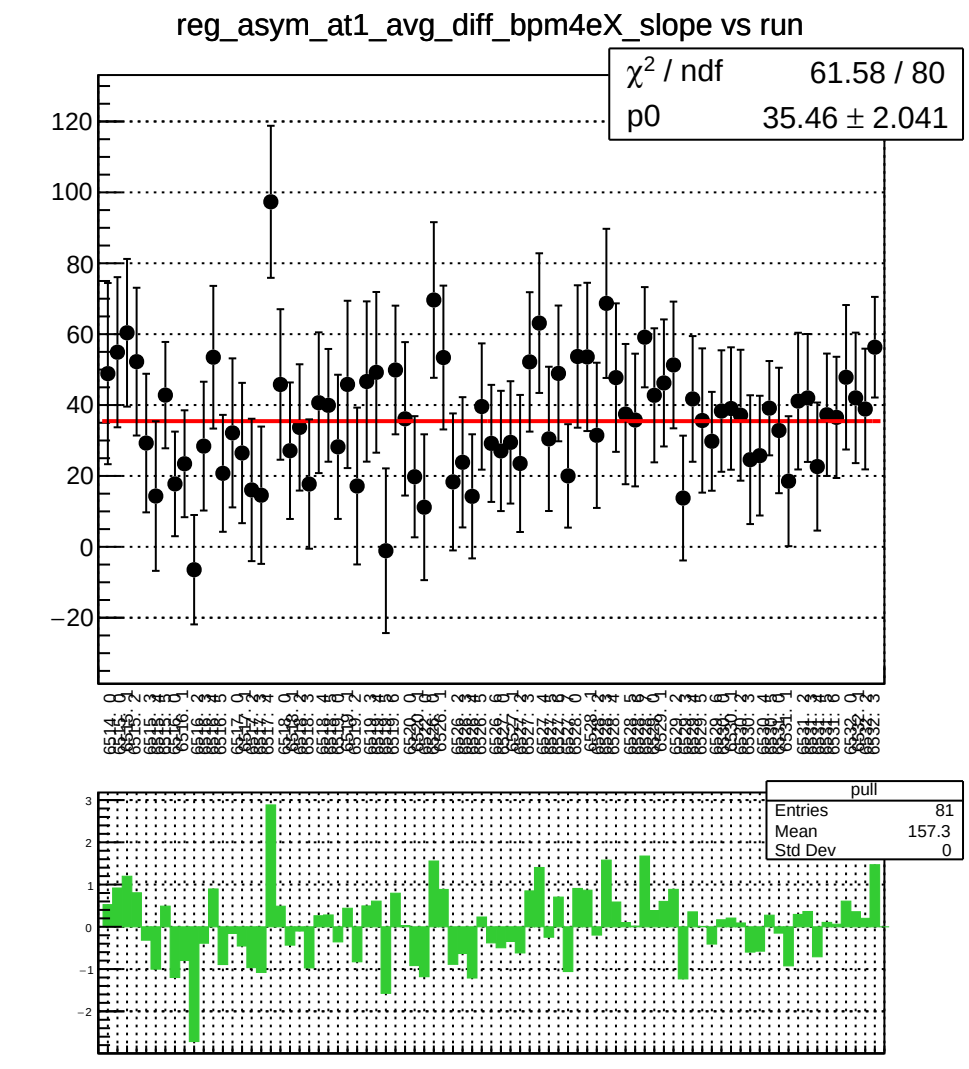

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 142.2 / 80
p0 118.3 ± 0.1779
124
122
120
118
116
114
pull
Entries 81
Mean −546.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 81
Mean 0.04102
Std Dev 1.324
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

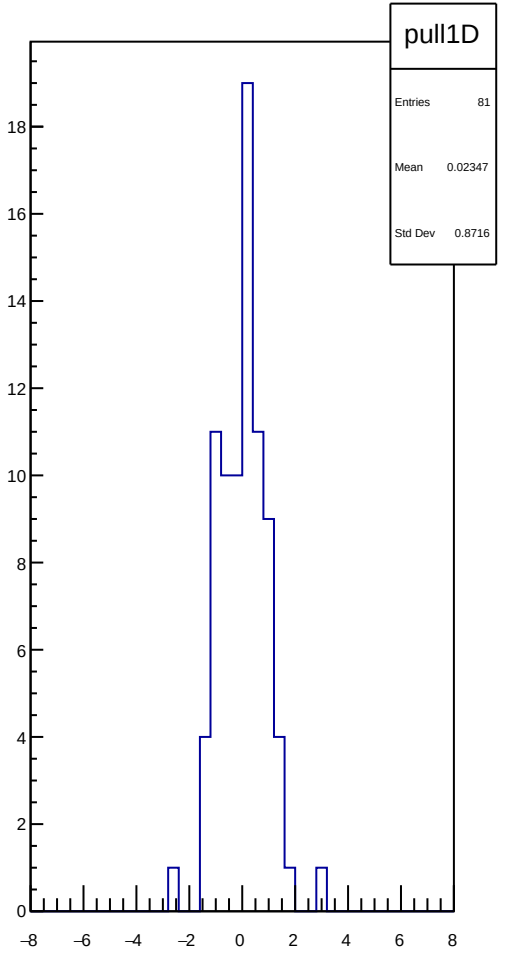

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 61.32 / 80
p0 −41.31 ± 1.955
pull
Entries 81
Mean 197.4
Std Dev 0

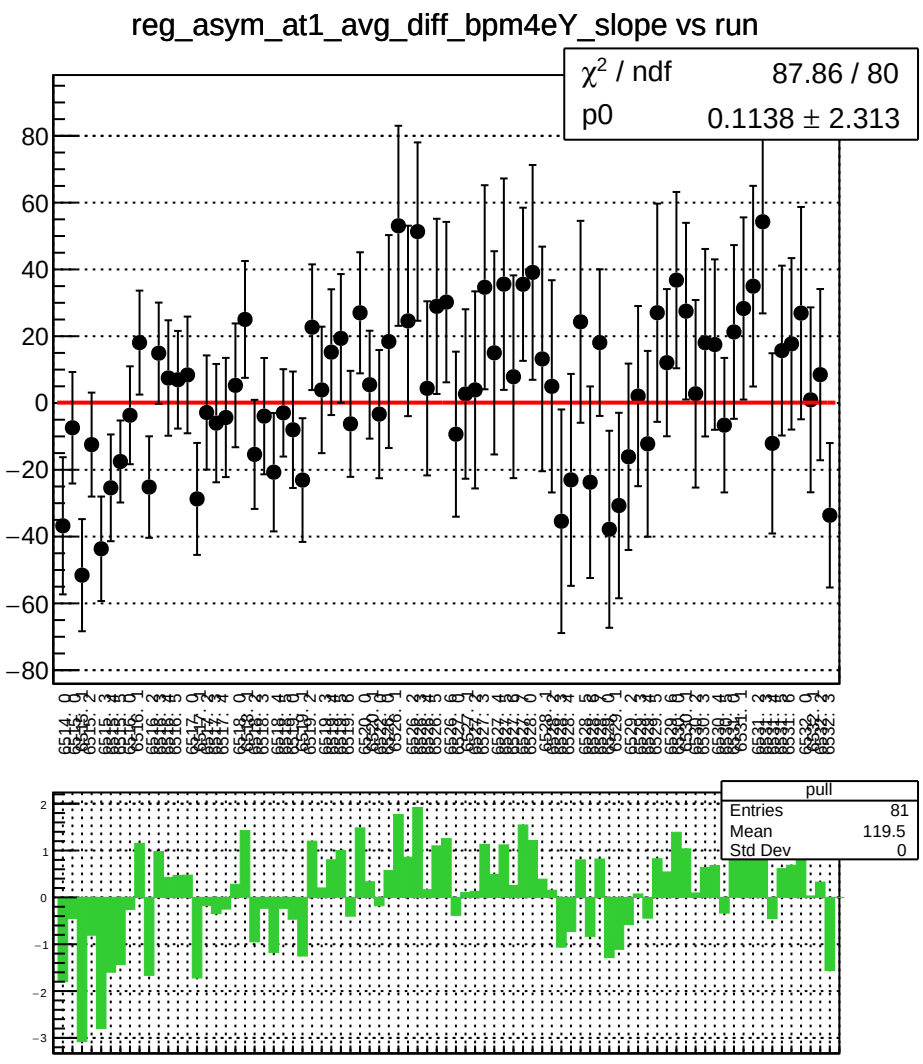

pull1D
Entries 81
Mean −0.02215
Std Dev 0.8698

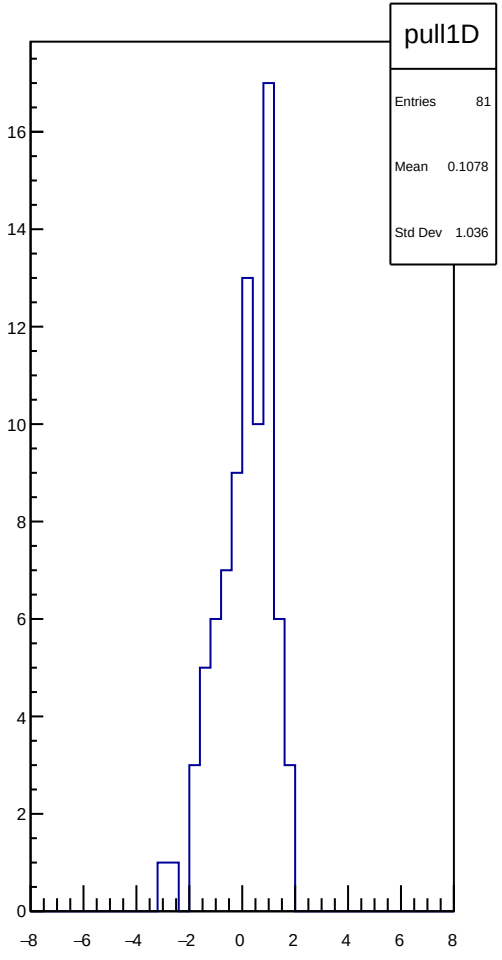

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 96.79 / 80
p0 1.903 ± 2.054
pull
Entries 81
Mean 99.81
Std Dev 0

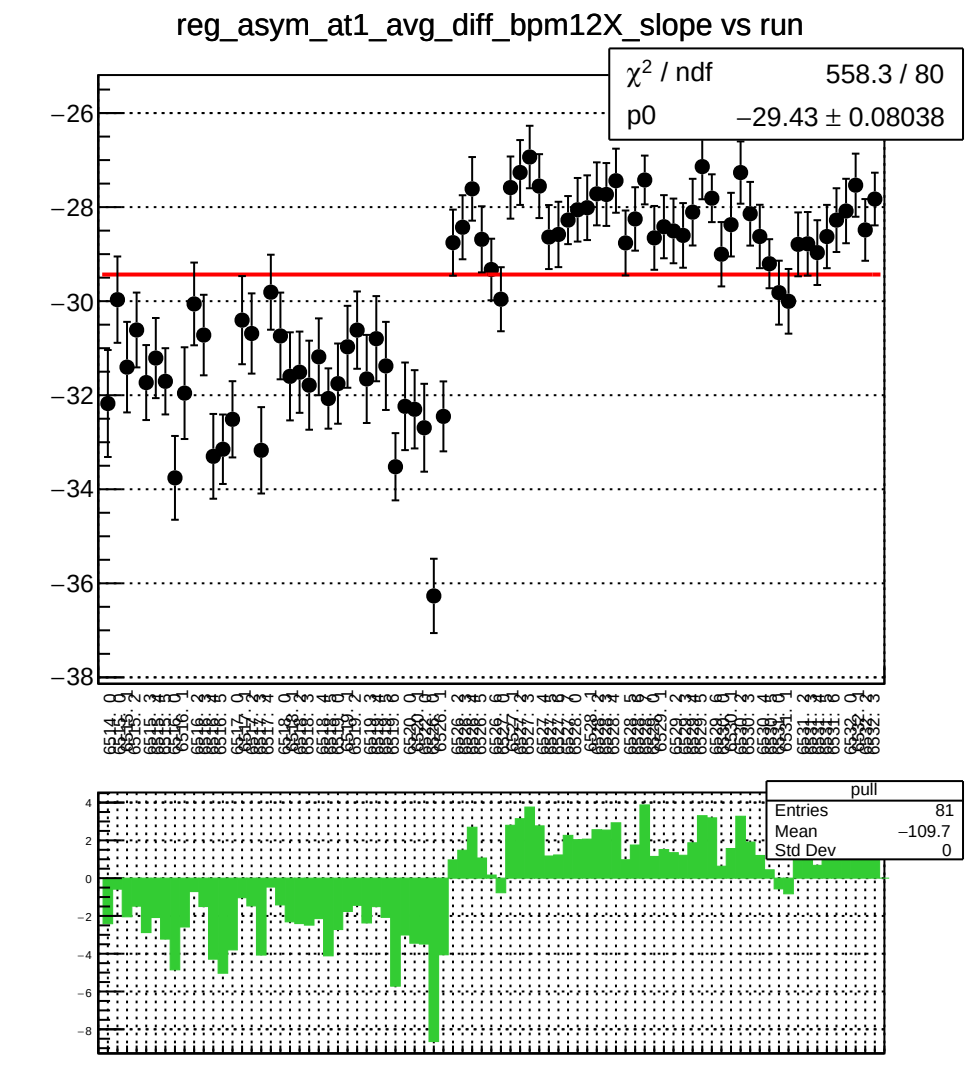

pull1D
Entries 81
Mean −0.2065
Std Dev 1.073

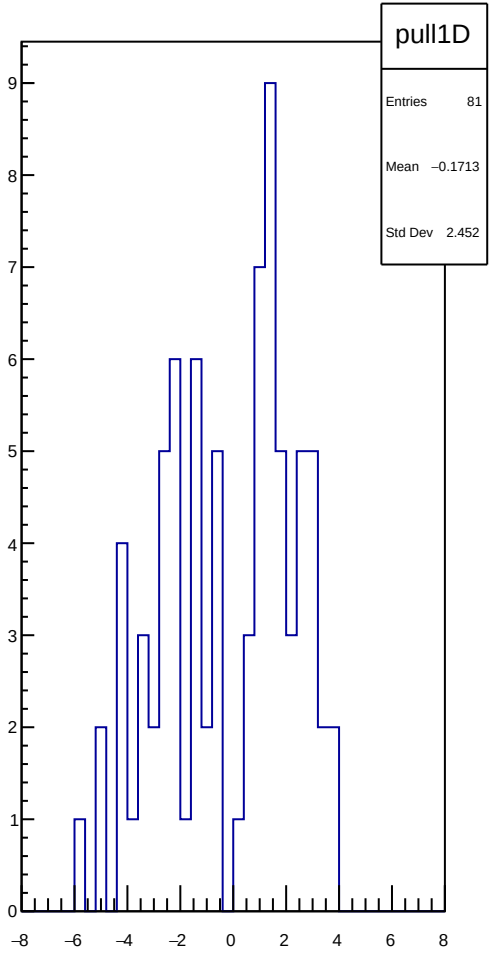

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 61.58 / 80
p0 35.46 ± 2.041
pull
Entries 81
Mean 157.3
Std Dev 0

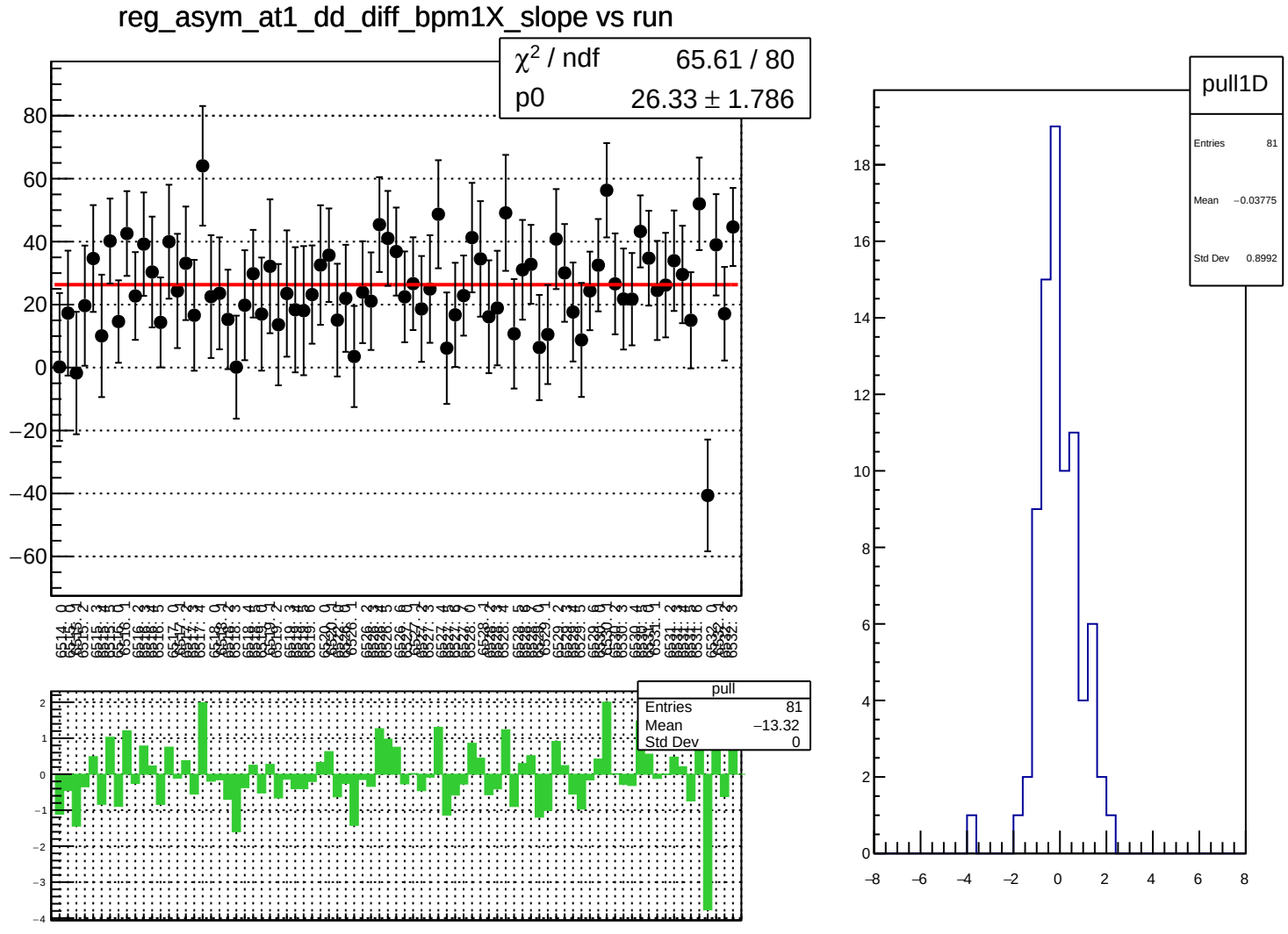

pull1D
Entries 81
Mean 0.02347
Std Dev 0.8716

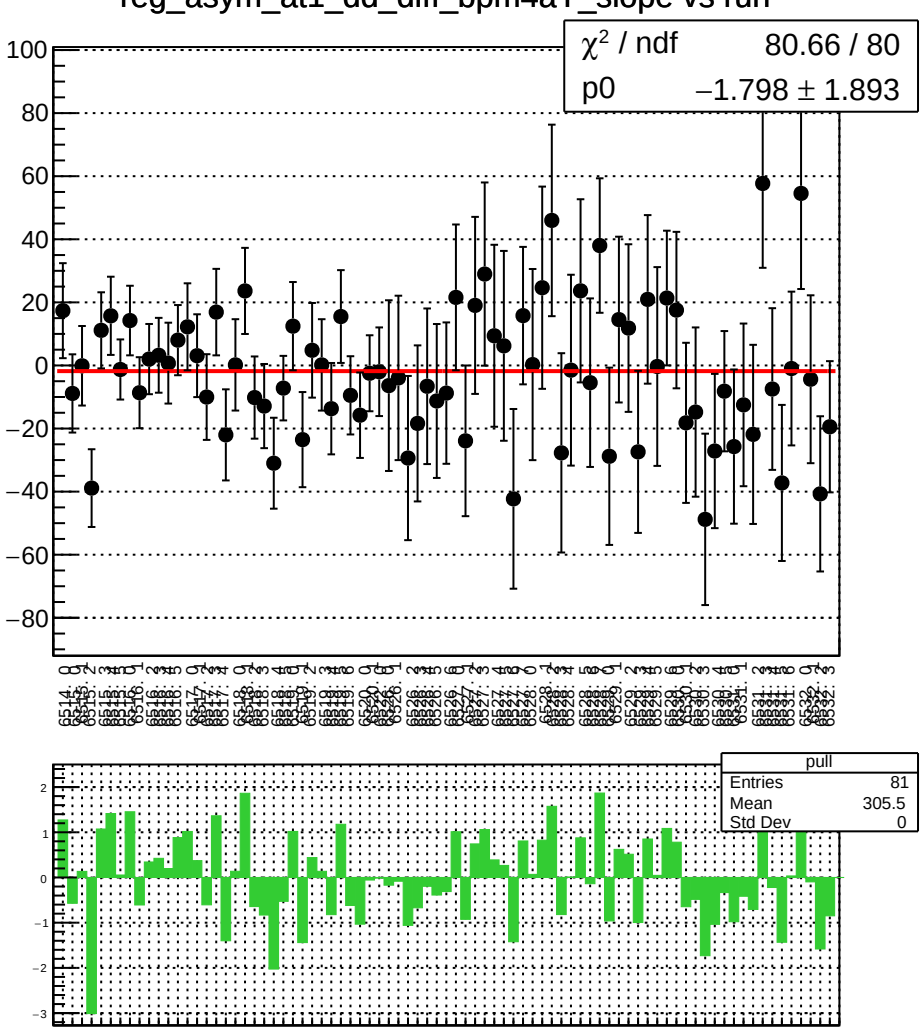

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 87.86 / 80
p0 0.1138 ± 2.313
pull
Entries 81
Mean 119.5
Std Dev 0

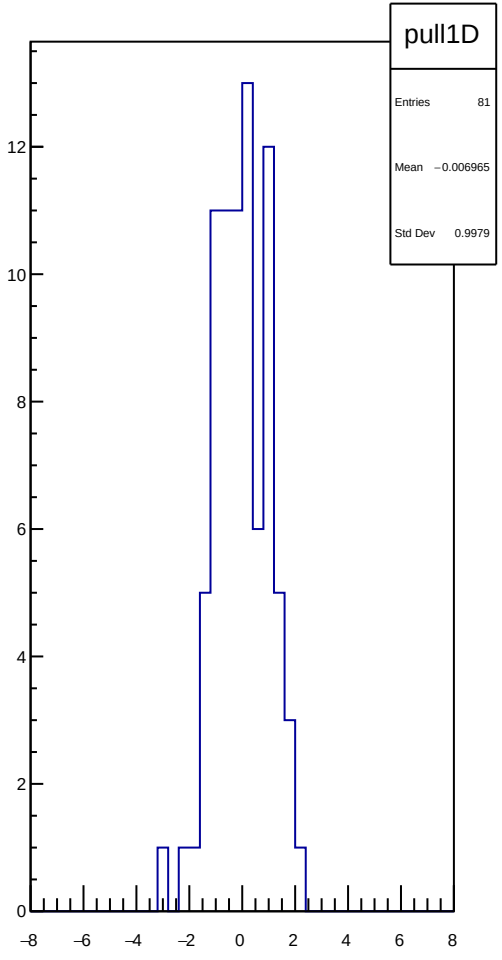

pull1D
Entries 81
Mean 0.1078
Std Dev 1.036

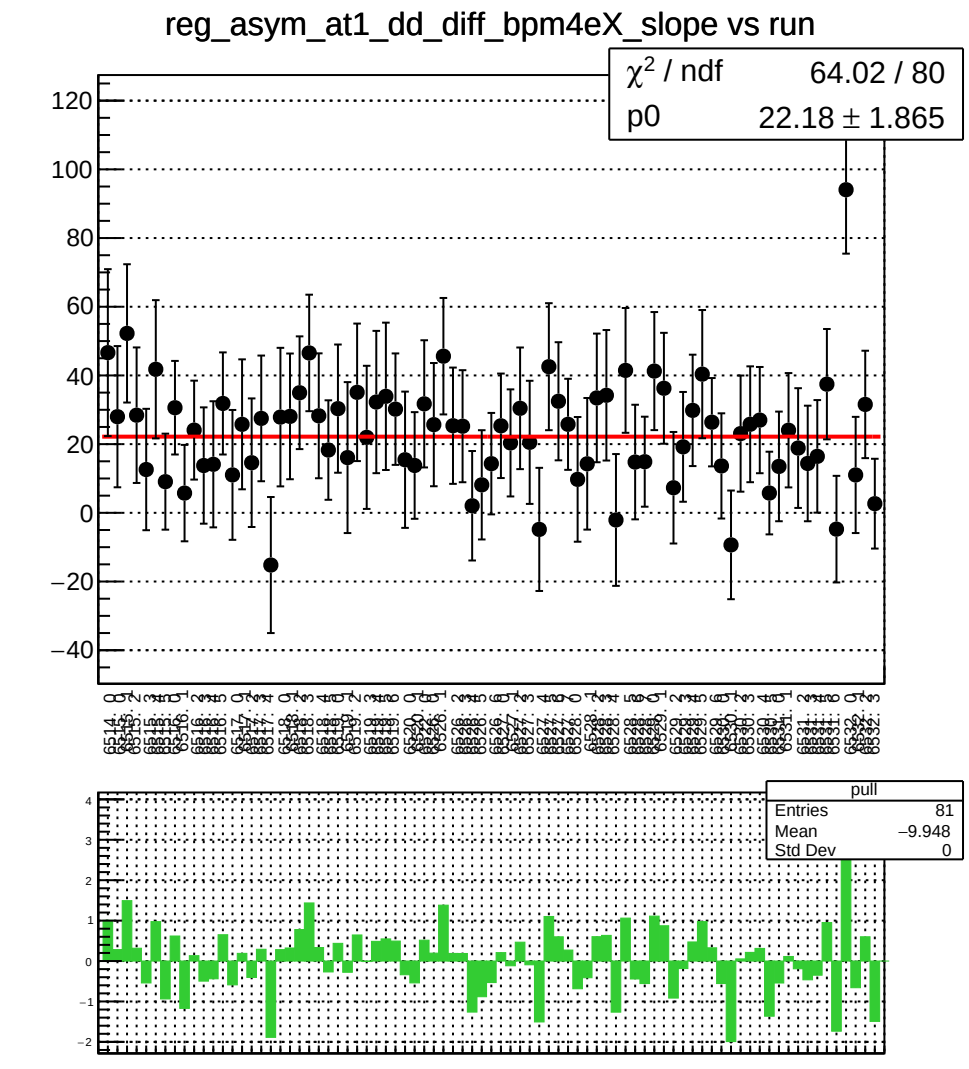

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 558.3 / 80
p0 −29.43 ± 0.08038
pull
Entries 81
Mean −109.7
Std Dev 0

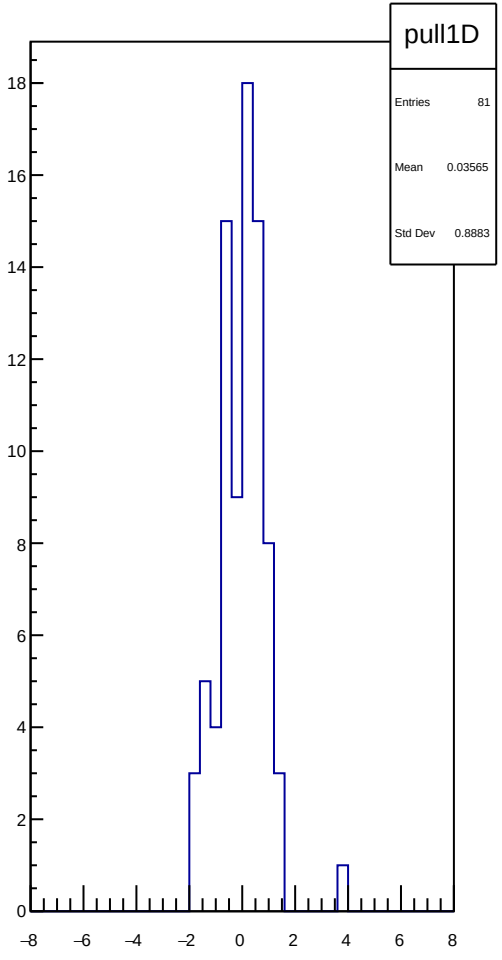

pull1D
Entries 81
Mean −0.1713
Std Dev 2.452

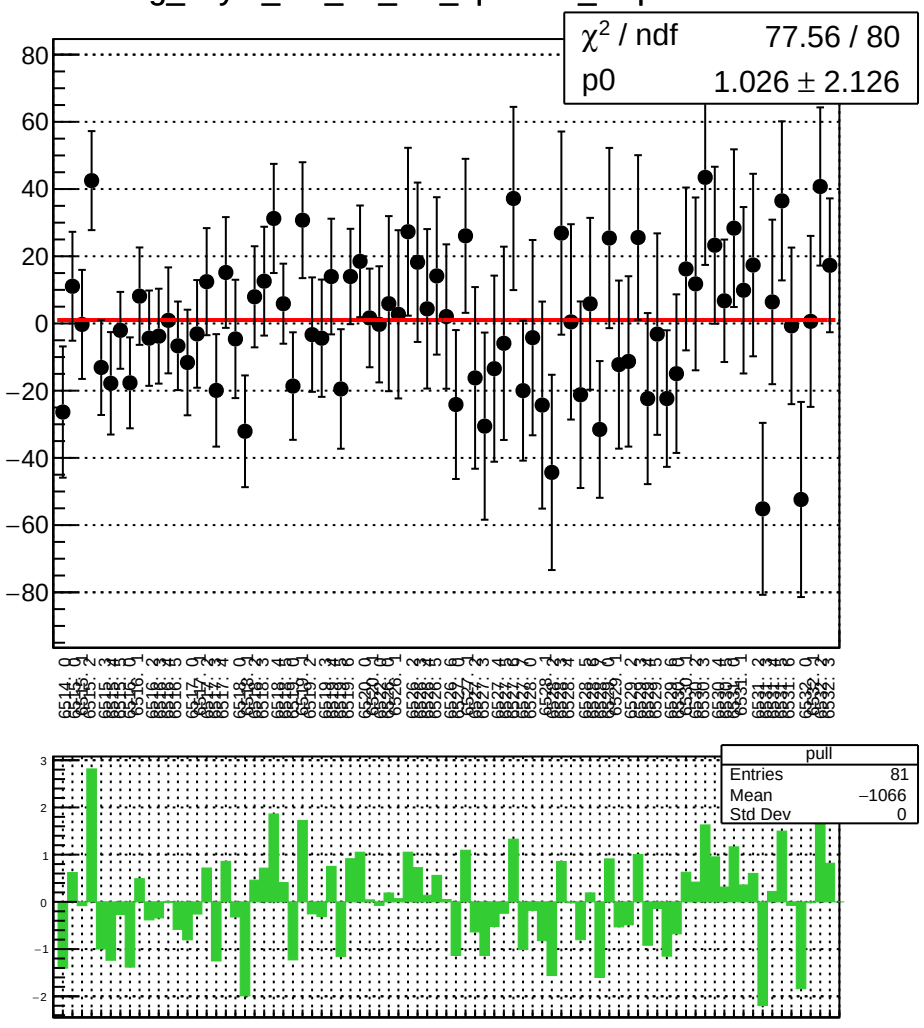

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 65.61 / 80
p0 26.33 ± 1.786
pull
Entries 81
Mean −13.32
Std Dev 0
pull1D
Entries 81
Mean −0.03775
Std Dev 0.8992

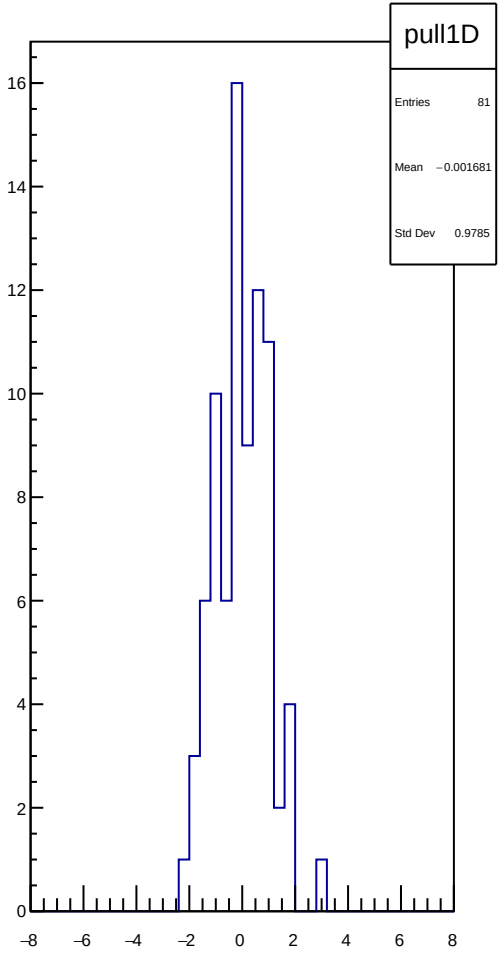

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 80.66 / 80
p0 −1.798 ± 1.893
pull
Entries 81
Mean 305.5
Std Dev 0

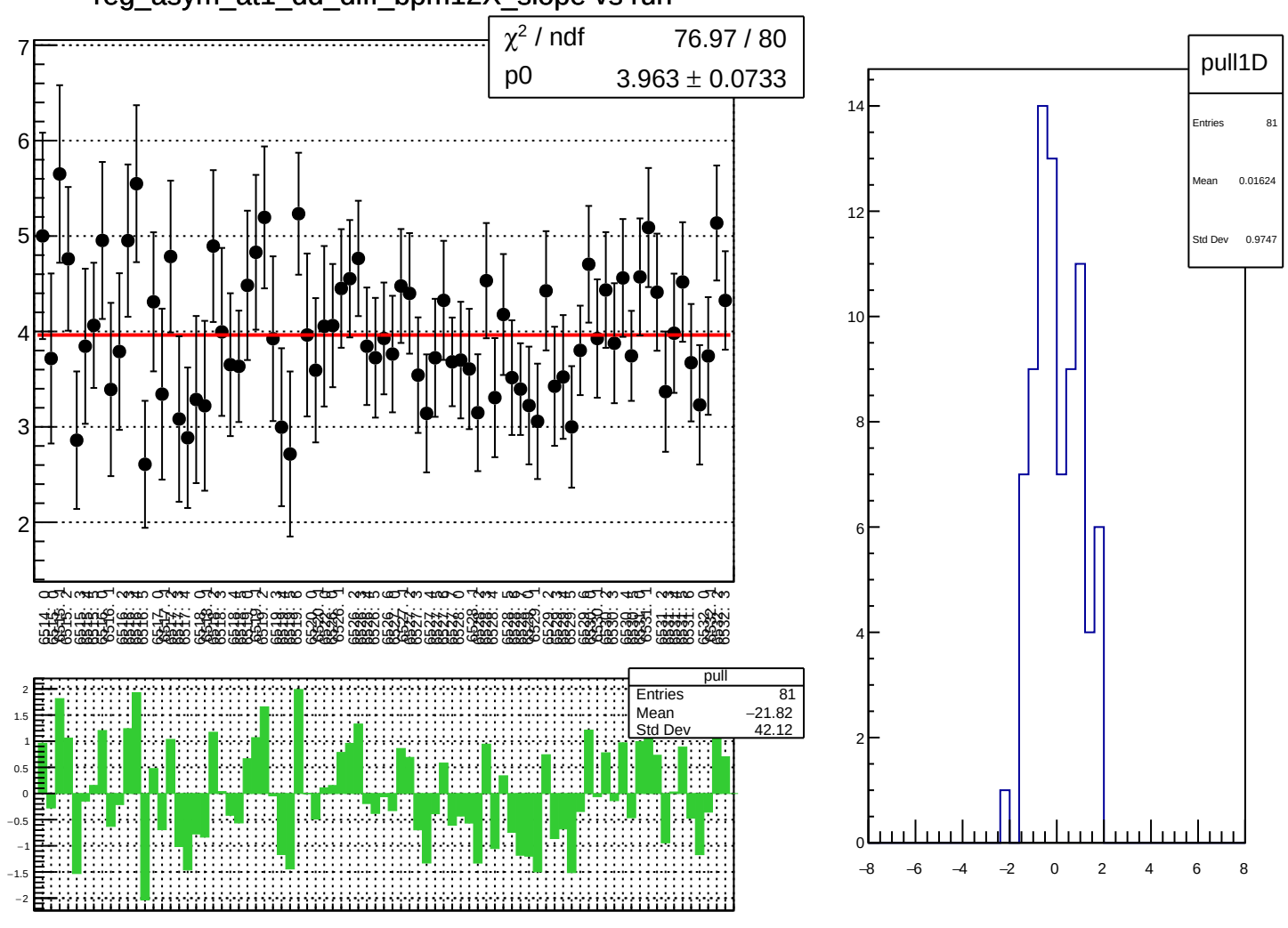

pull1D
Entries 81
Mean −0.006965
Std Dev 0.9979

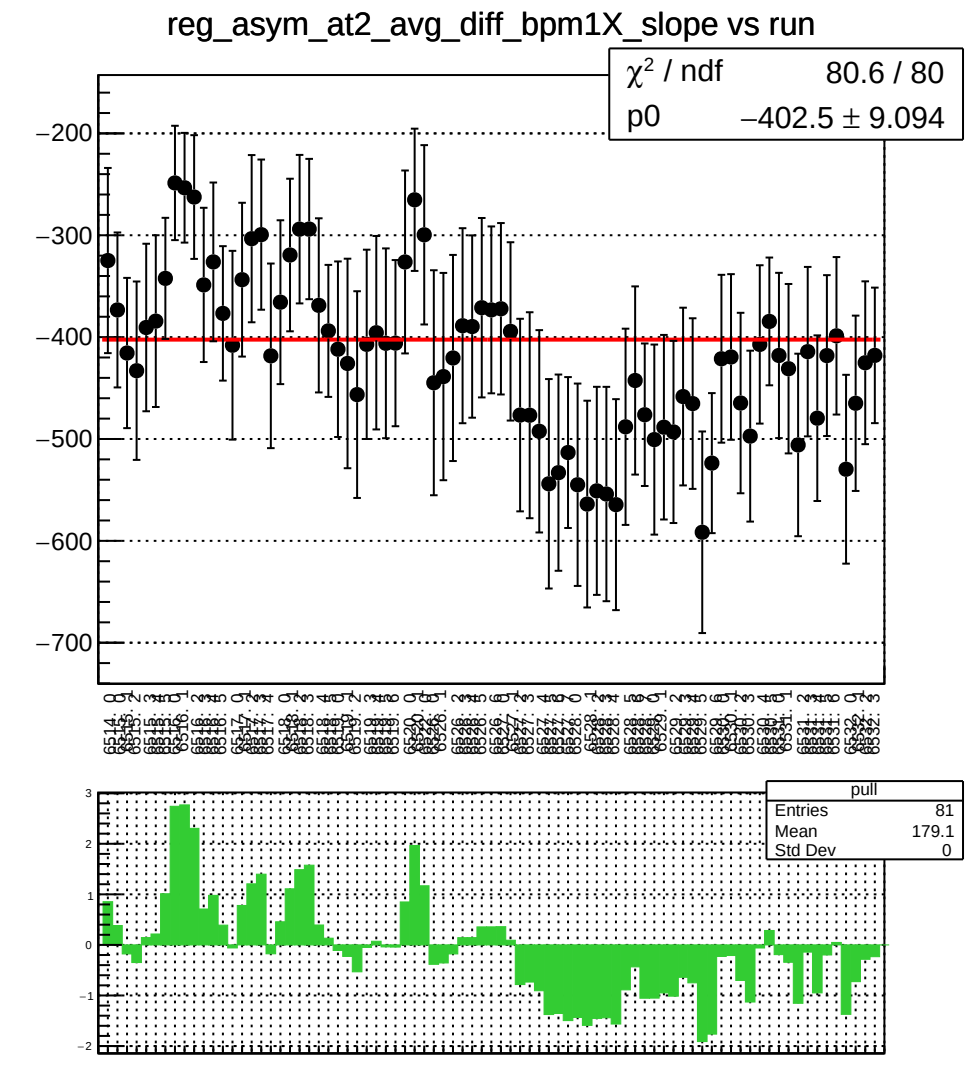

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 64.02 / 80
p0 22.18 ± 1.865
pull
Entries 81
Mean −9.948
Std Dev 0

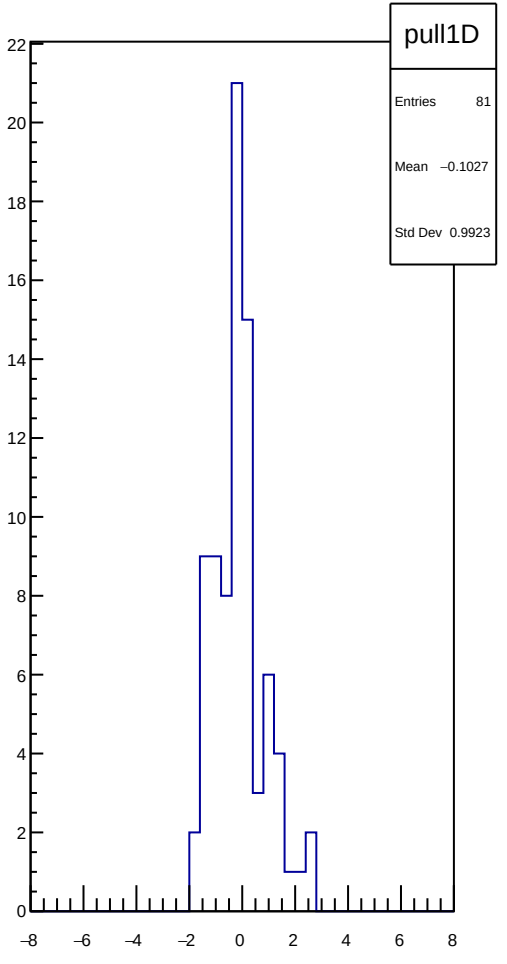

pull1D
Entries 81
Mean 0.03565
Std Dev 0.8883

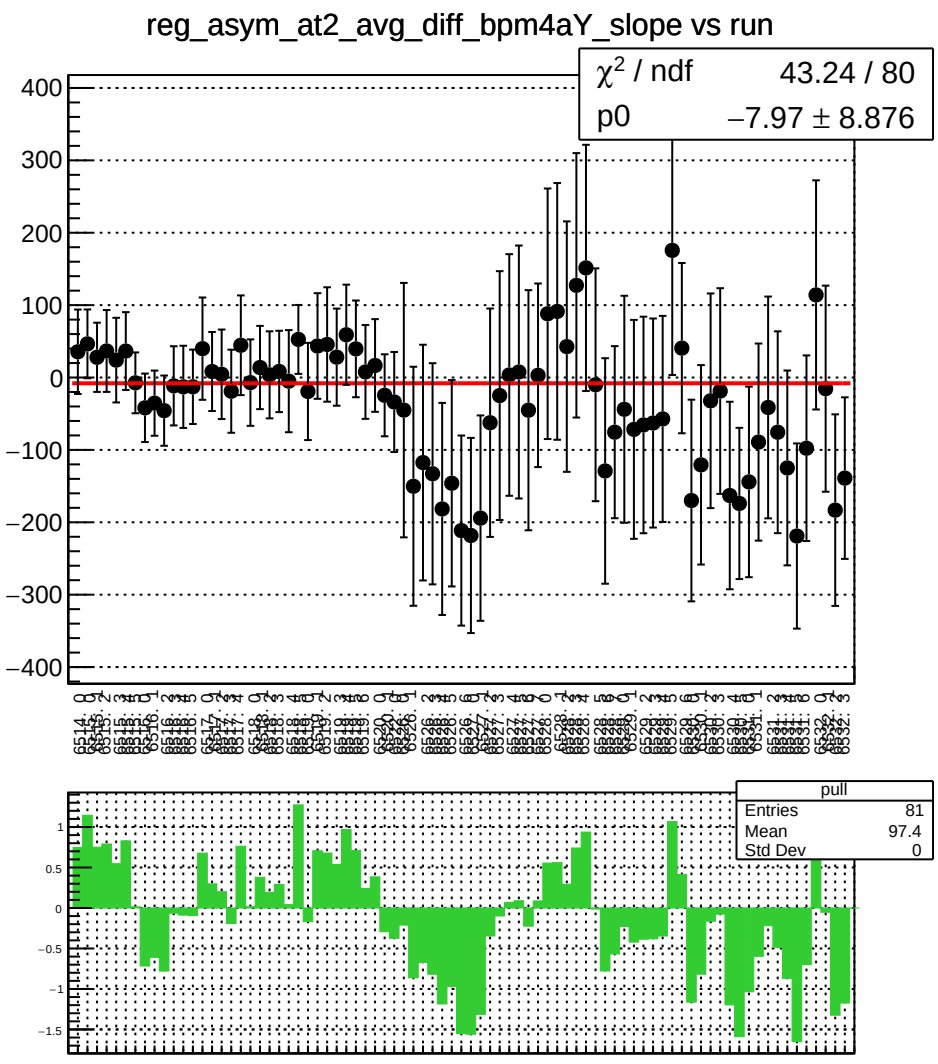

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 77.56 / 80
p0 1.026 ± 2.126
pull
Entries 81
Mean −1066
Std Dev 0

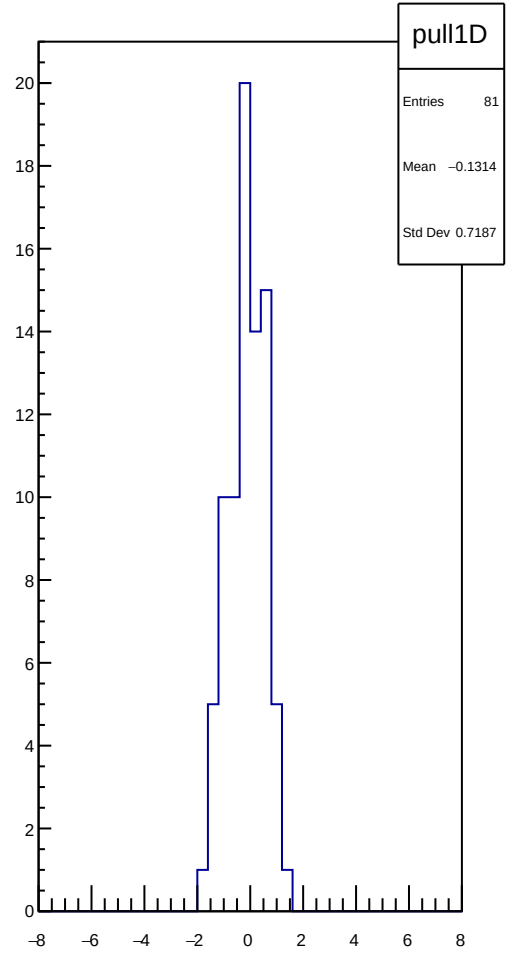

pull1D
Entries 81
Mean −0.001681
Std Dev 0.9785

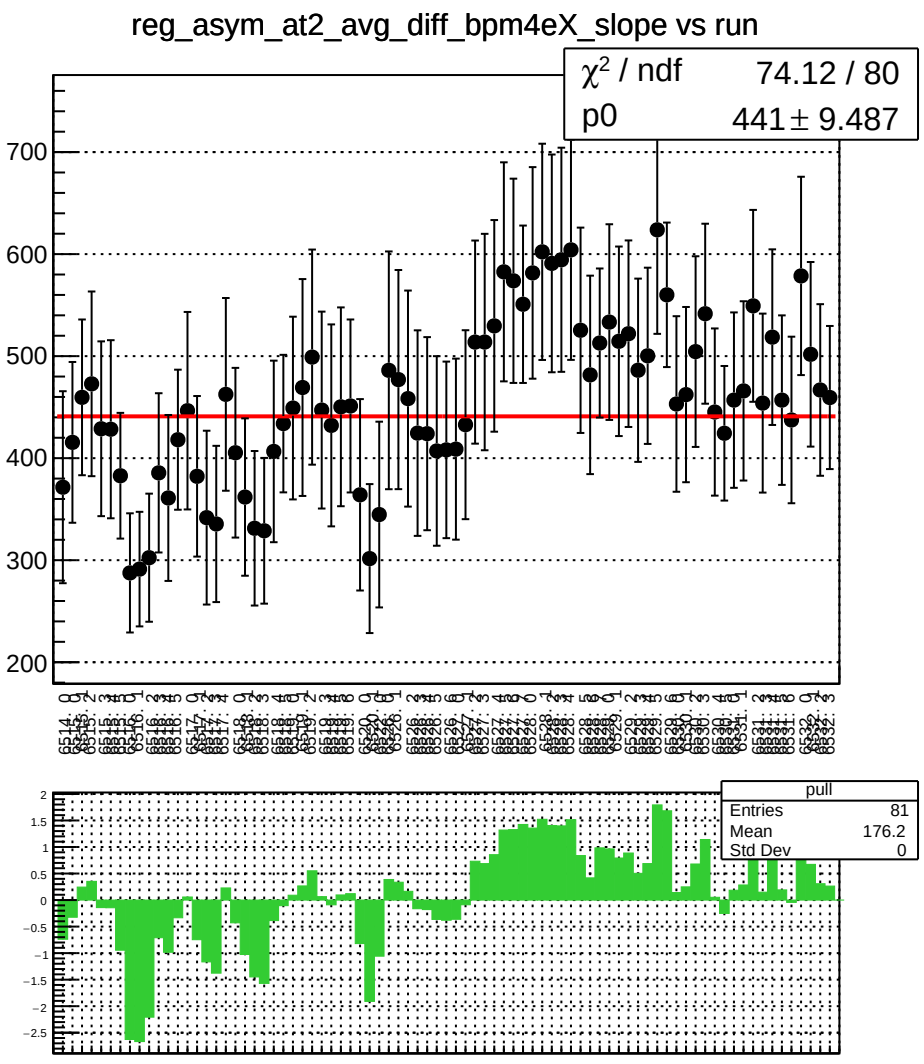

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 76.97 / 80
p0 3.963 ± 0.0733
pull
Entries 81
Mean −21.82
Std Dev 42.12
pull1D
Entries 81
Mean 0.01624
Std Dev 0.9747

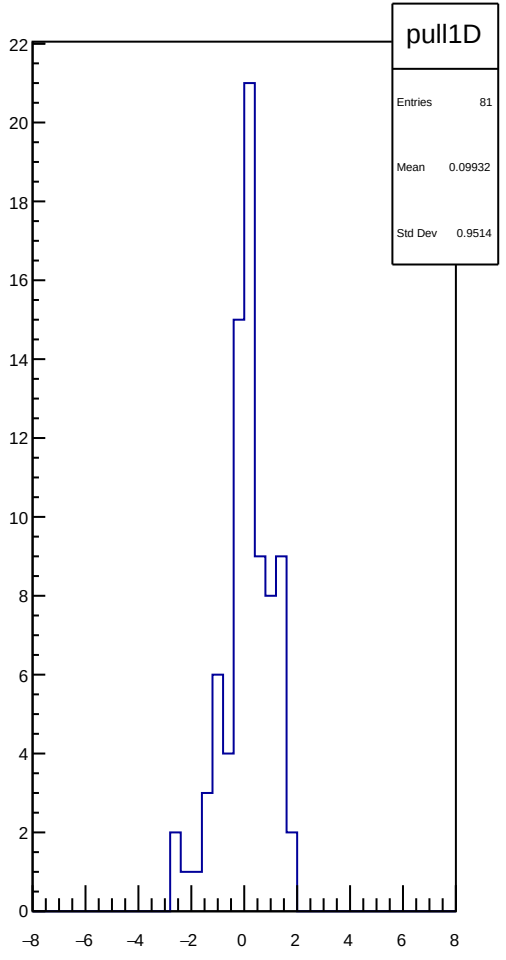

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 80.6 / 80
p0 −402.5 ± 9.094
−200
−300
−400
−500
−600
−700
pull
Entries 81
Mean 179.1
Std Dev 0
3
2
1
0
−1
−2

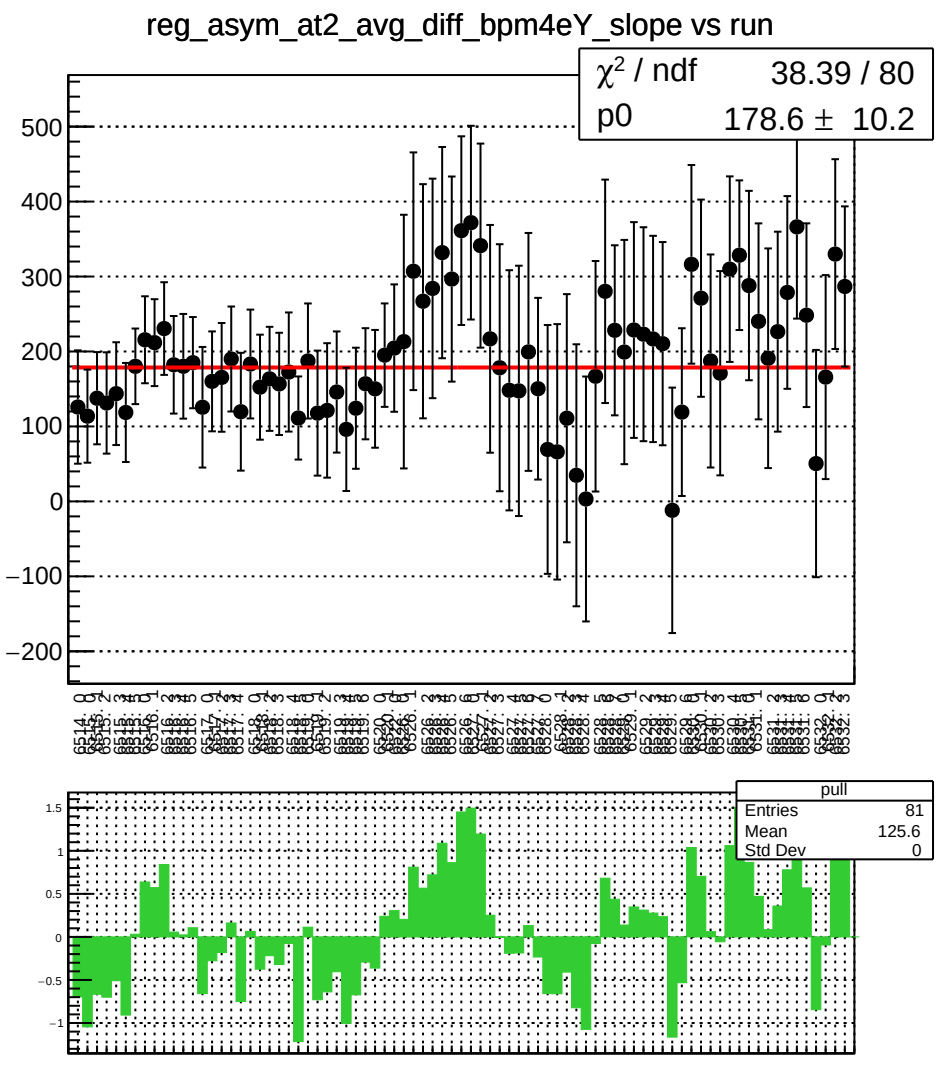

pull1D
Entries 81
Mean −0.1027
Std Dev 0.9923
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

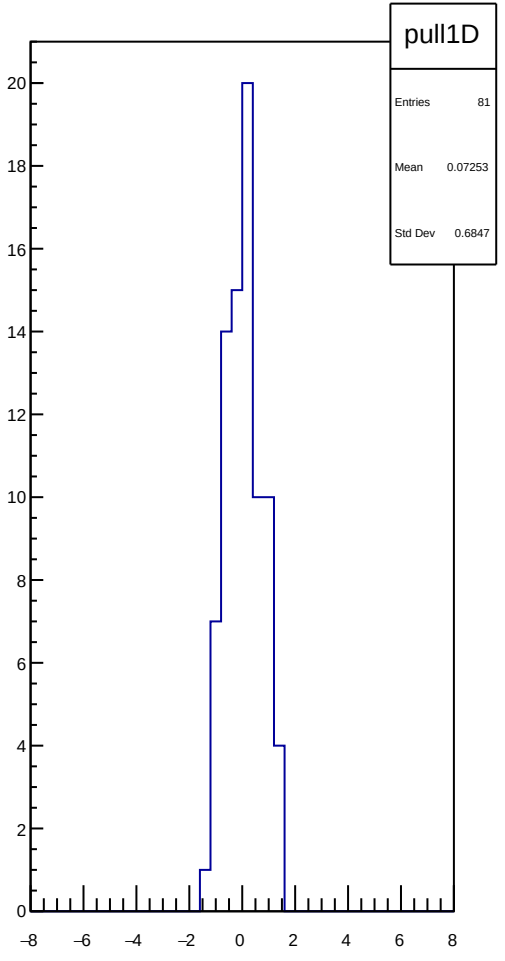

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 43.24 / 80
p0 −7.97 ± 8.876
pull
Entries 81
Mean 97.4
Std Dev 0

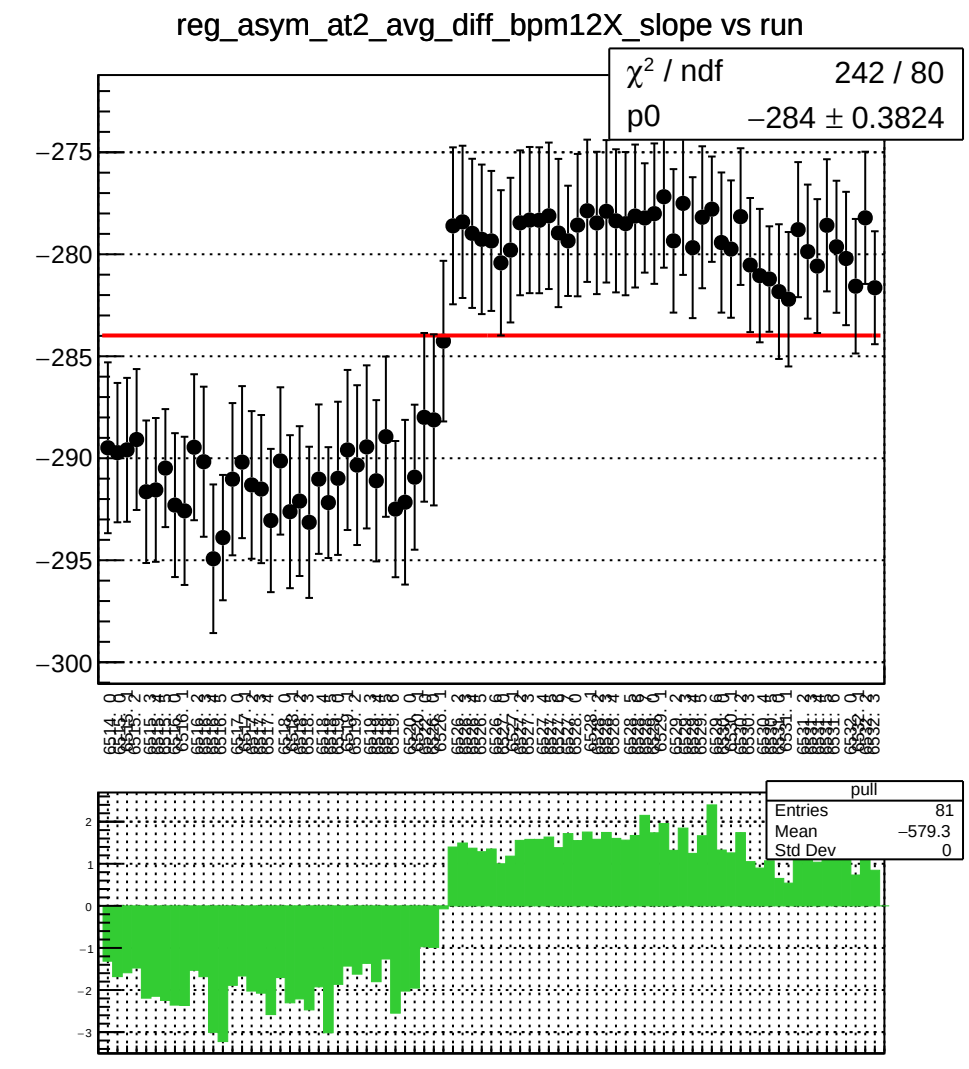

pull1D
Entries 81
Mean −0.1314
Std Dev 0.7187

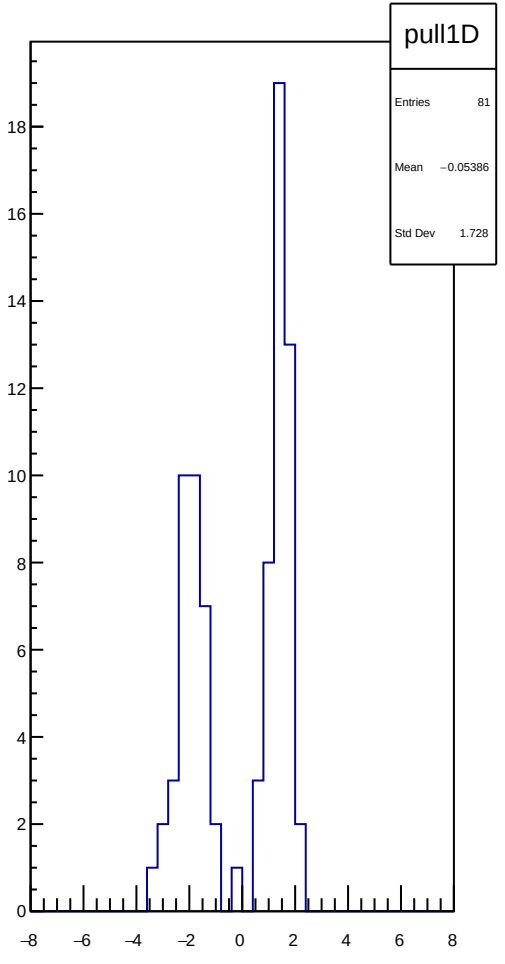

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 74.12 / 80
p0 441 ± 9.487
700
600
500
400
300
200
pull
Entries 81
Mean 176.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

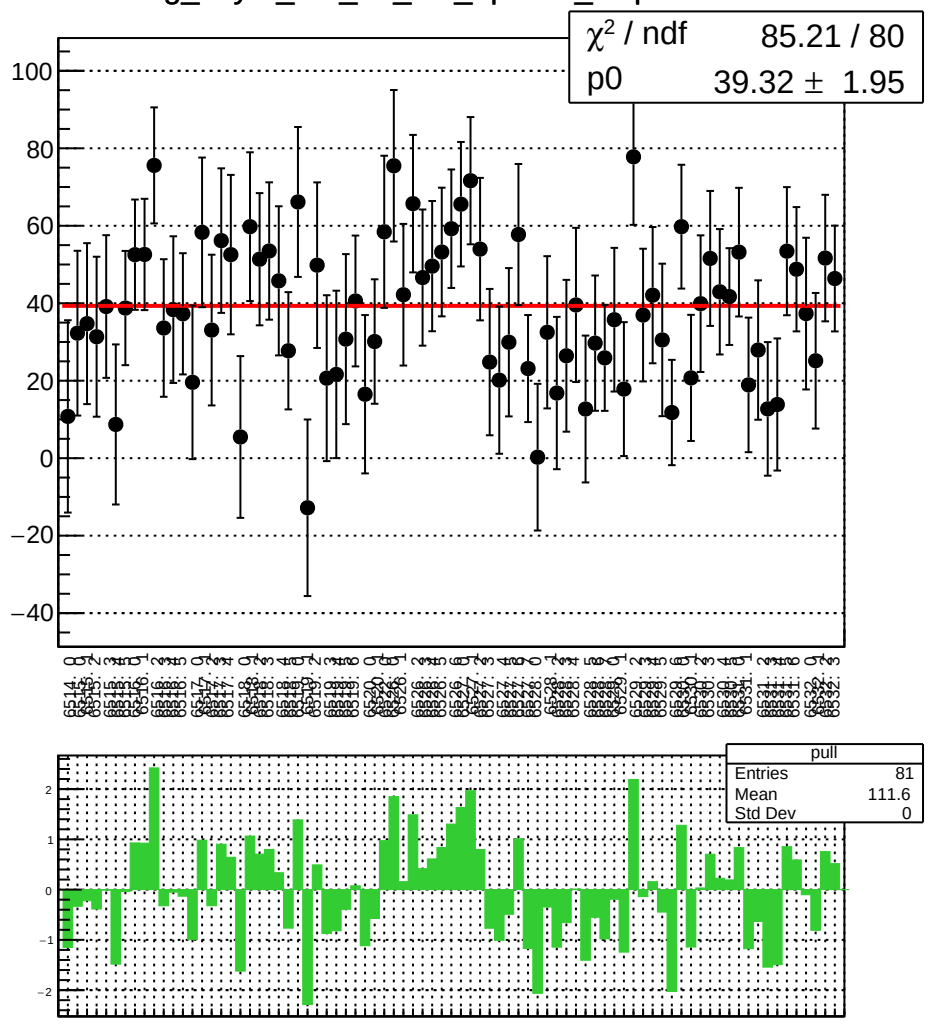

pull1D
Entries 81
Mean 0.09932
Std Dev 0.9514
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

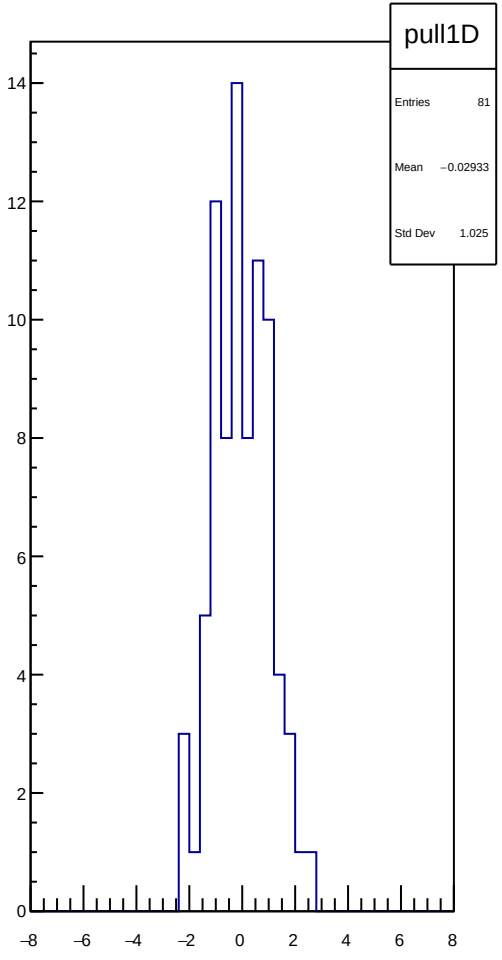

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 38.39 / 80
p0 178.6 ± 10.2
pull
Entries 81
Mean 125.6
Std Dev 0

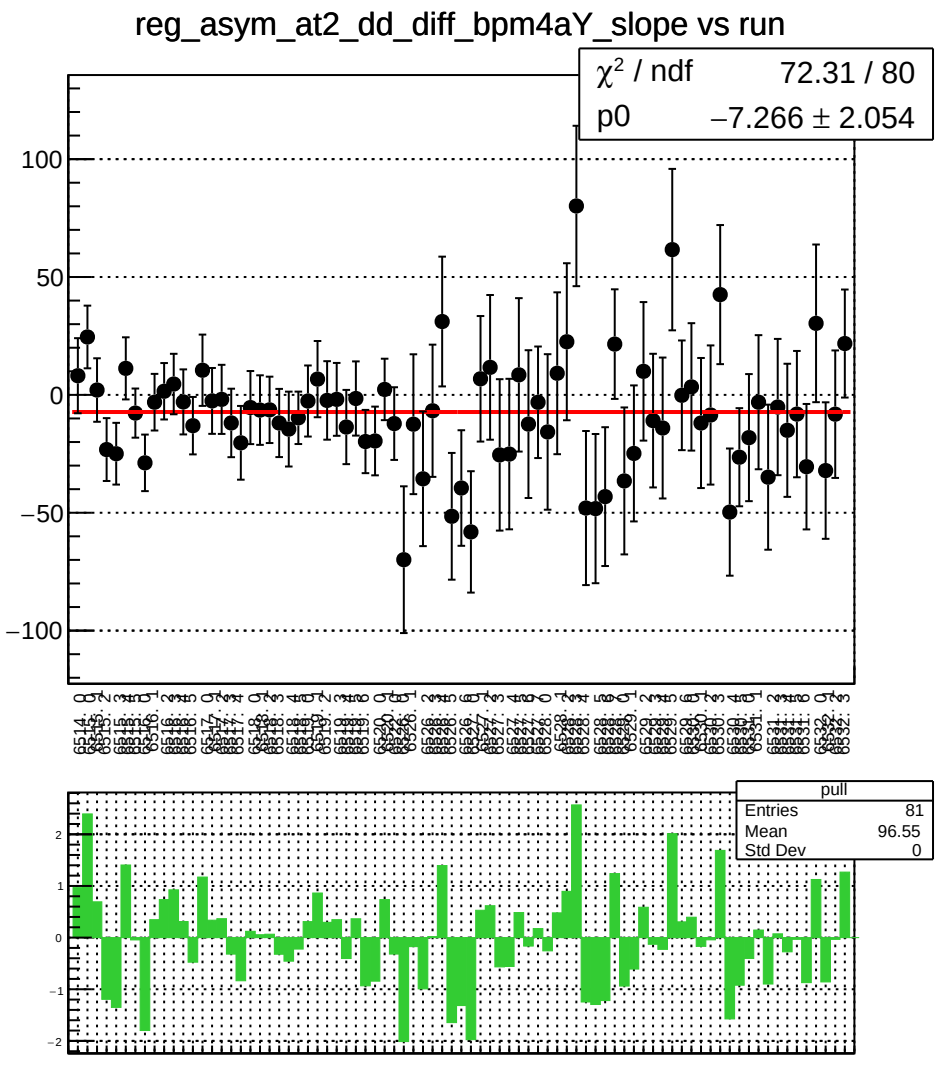

pull1D
Entries 81
Mean 0.07253
Std Dev 0.6847

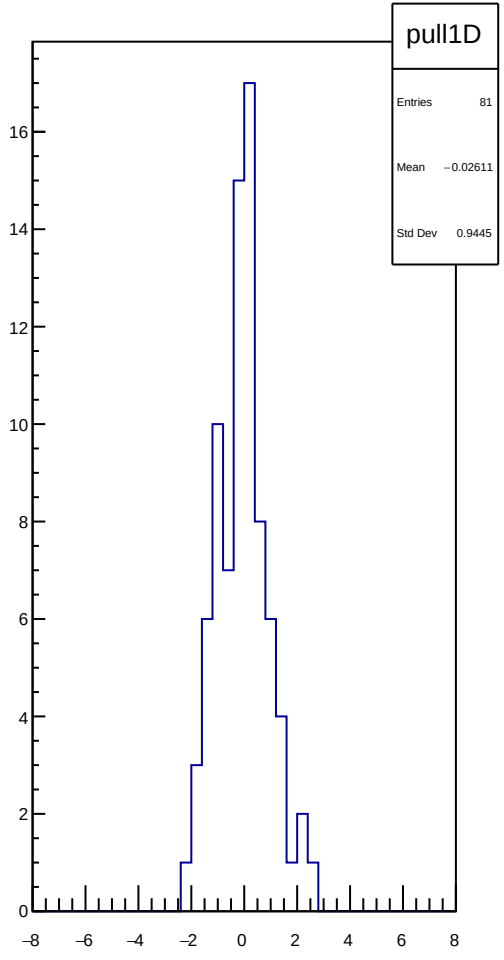

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 242 / 80
p0 −284 ± 0.3824
−275
−280
−285
−290
−295
−300
pull
Entries 81
Mean −579.3
Std Dev 0
2
1
0
−1
−2
−3

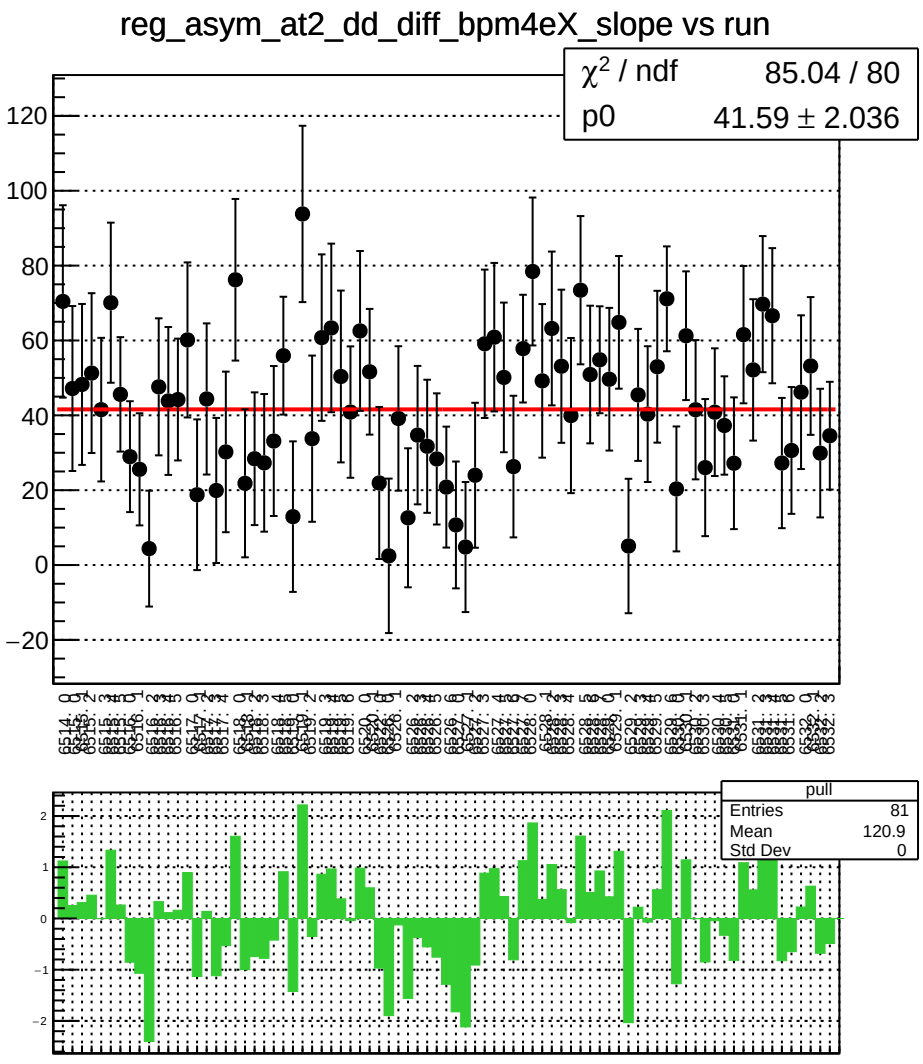

pull1D
Entries 81
Mean −0.05386
Std Dev 1.728
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

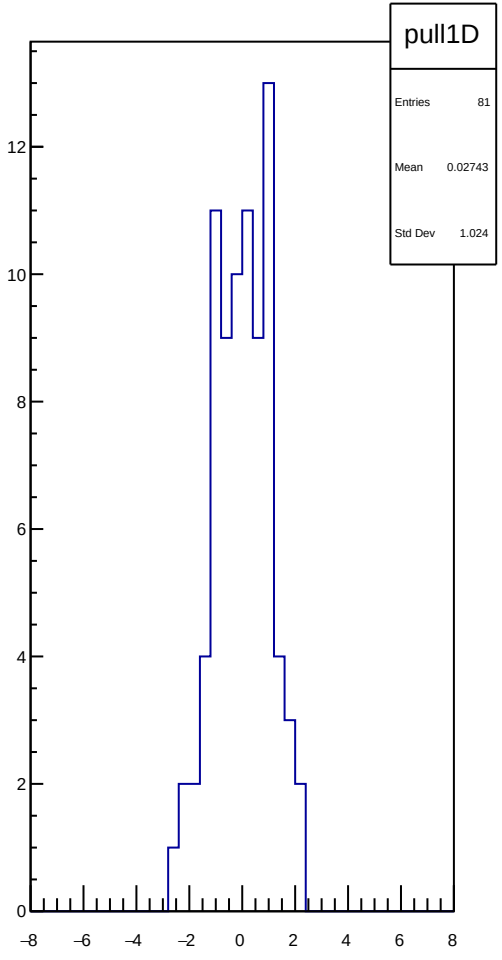

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 85.21 / 80
p0 39.32 ± 1.95
pull
Entries 81
Mean 111.6
Std Dev 0

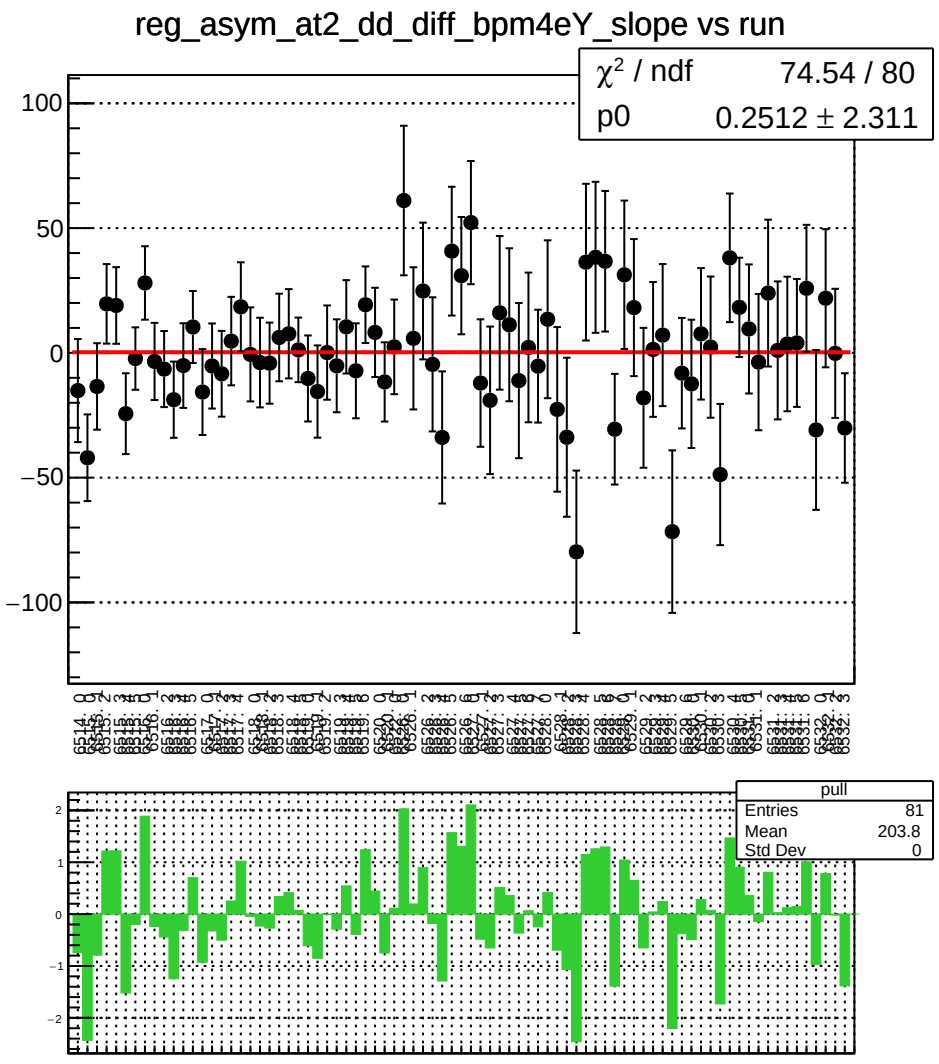

pull1D
Entries 81
Mean −0.02933
Std Dev 1.025

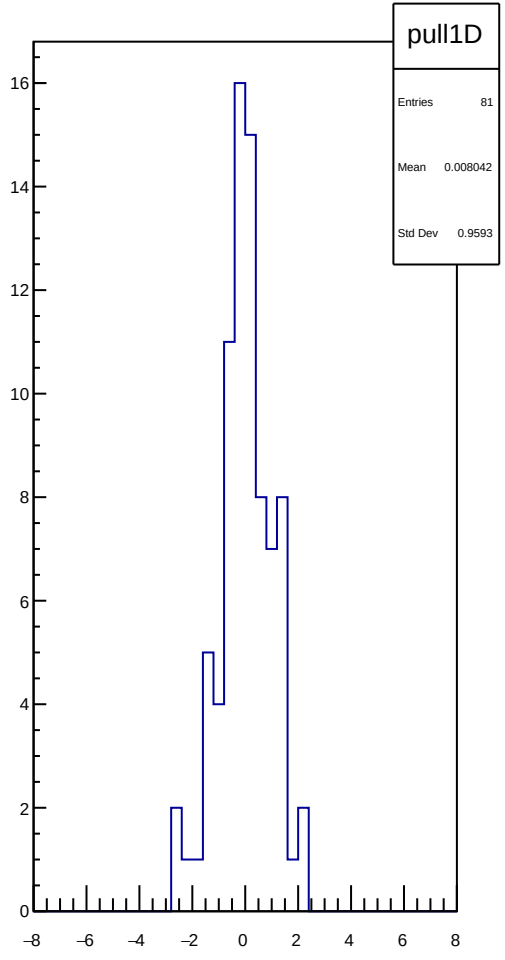

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 72.31 / 80
p0 −7.266 ± 2.054
100
50
0
−50
−100
pull
Entries 81
Mean 96.55
Std Dev 0
2
1
0
−1
−2

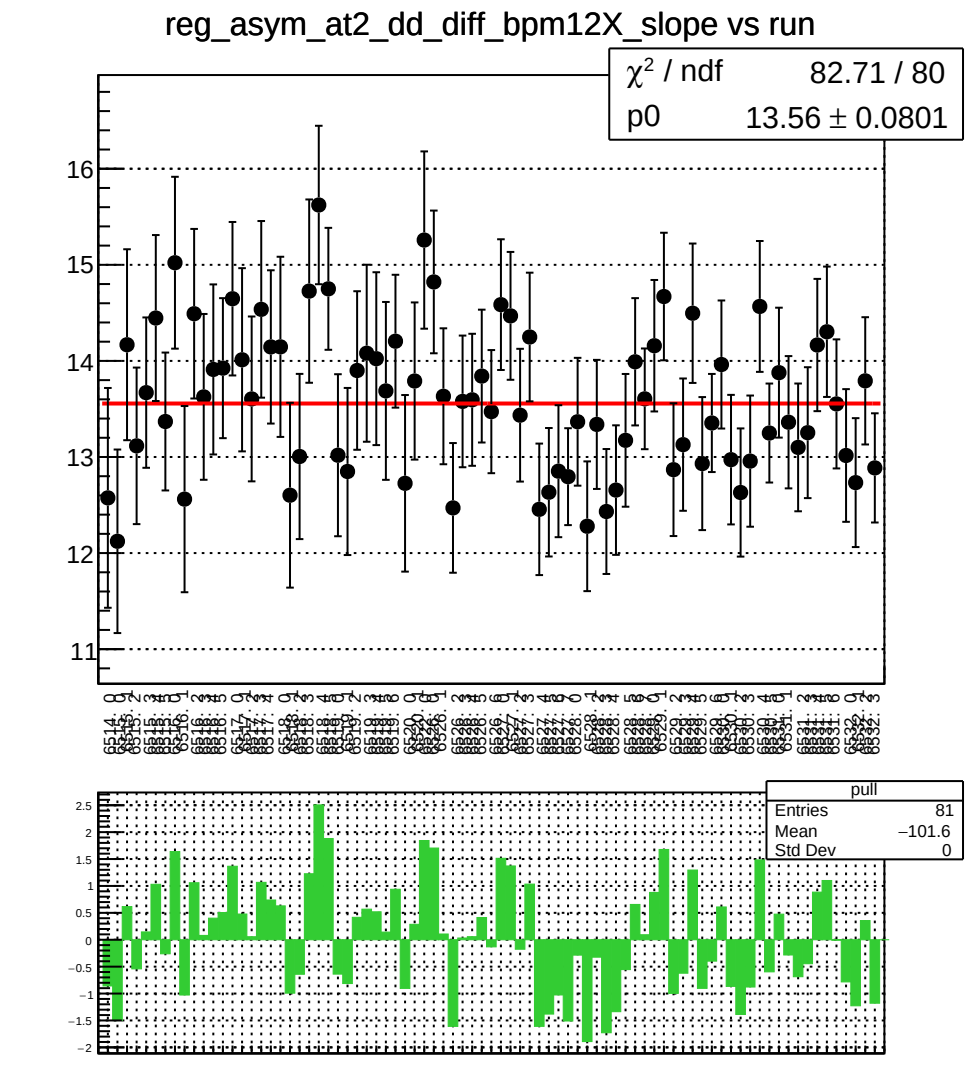

pull1D
Entries 81
Mean −0.02611
Std Dev 0.9445
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

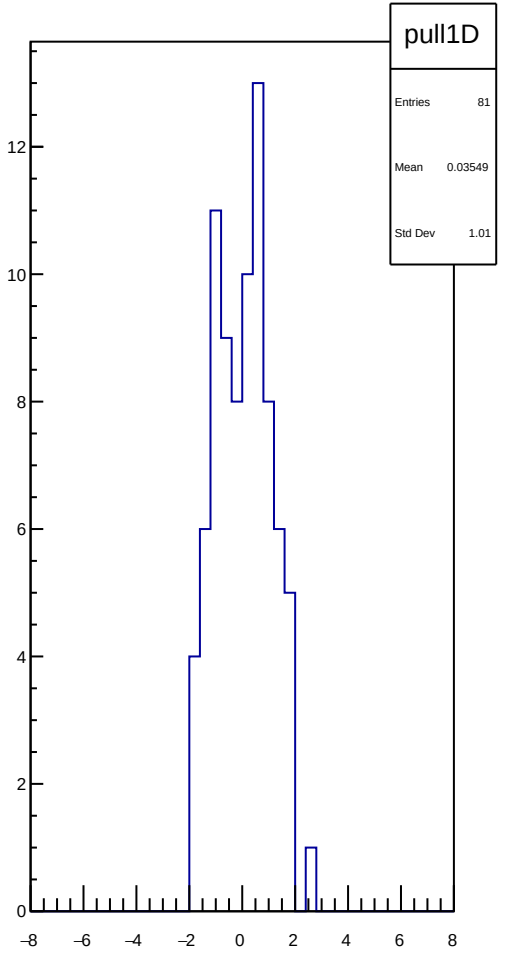

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 85.04 / 80
p0 41.59 ± 2.036
pull
Entries 81
Mean 120.9
Std Dev 0

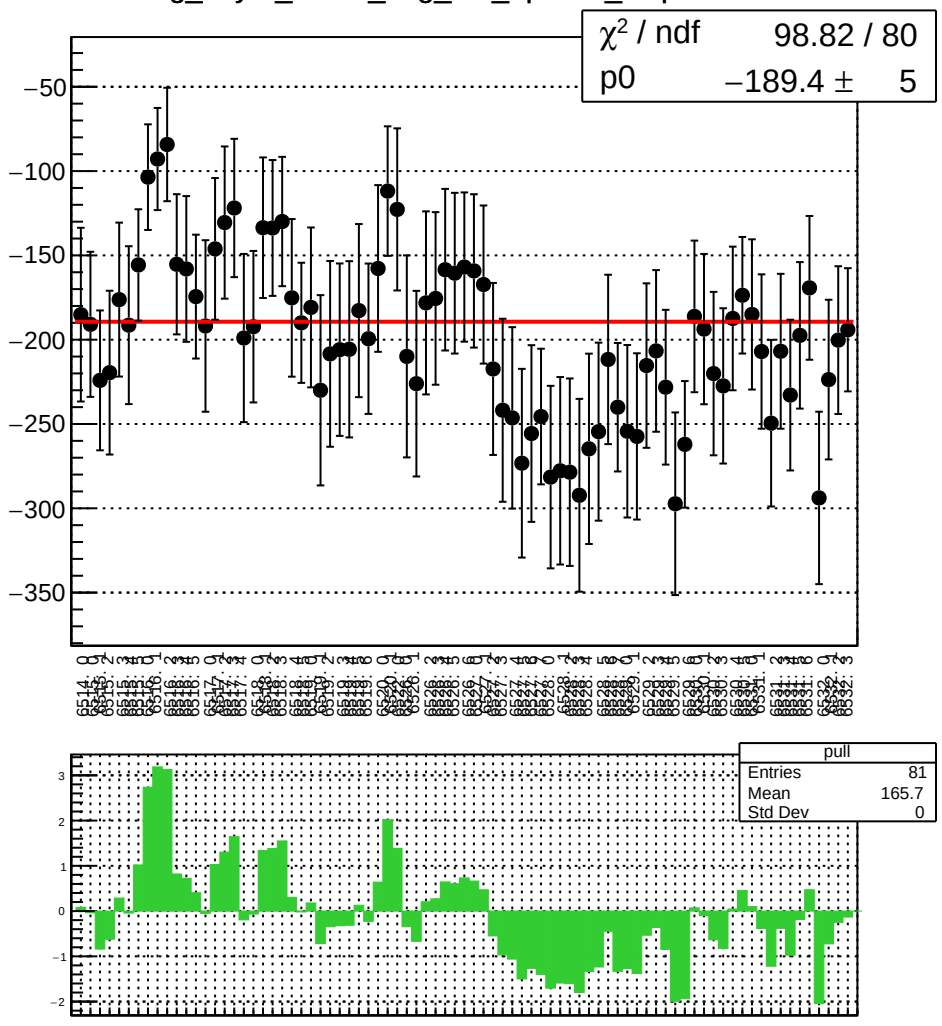

pull1D
Entries 81
Mean 0.02743
Std Dev 1.024

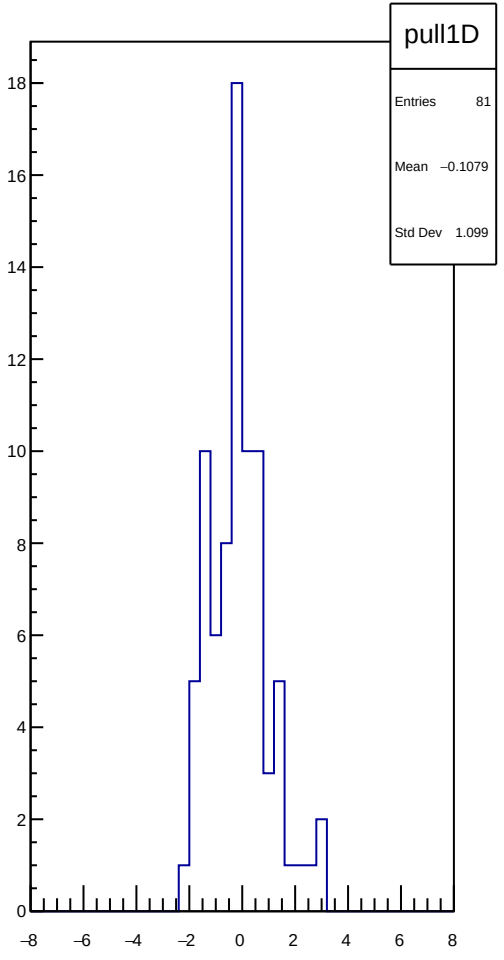

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 74.54 / 80
p0 0.2512 ± 2.311
100
50
0
−50
−100
pull
Entries 81
Mean 203.8
Std Dev 0
2
1
0
−1
−2

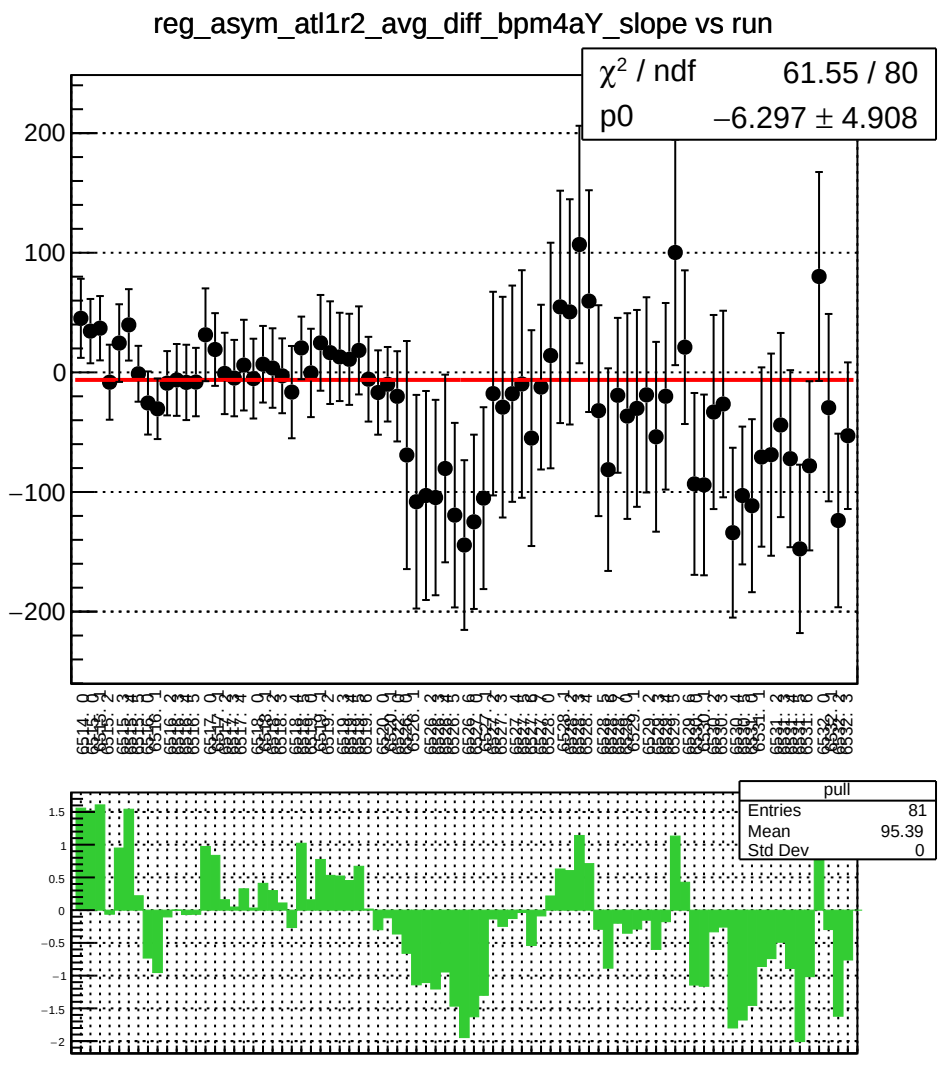

pull1D
Entries 81
Mean 0.008042
Std Dev 0.9593
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

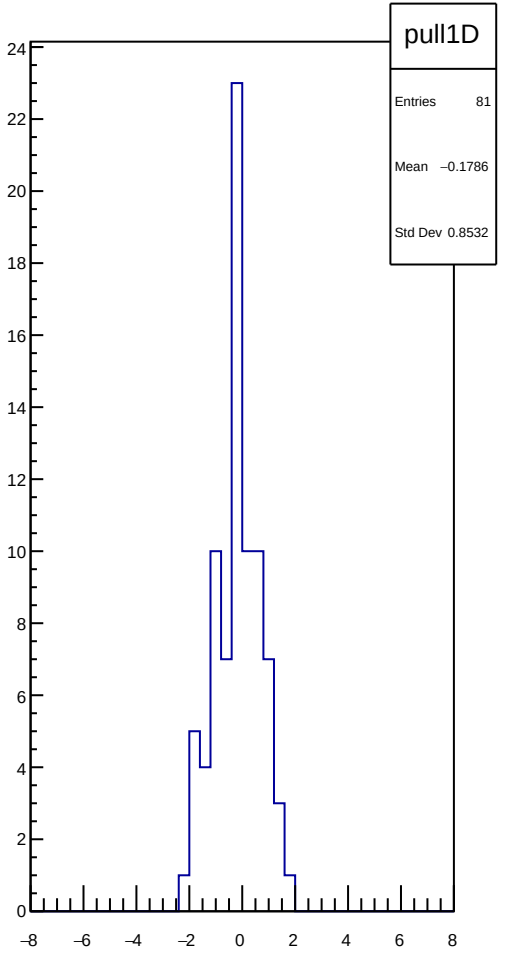

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 82.71 / 80
p0 13.56 ± 0.0801
pull
Entries 81
Mean −101.6
Std Dev 0

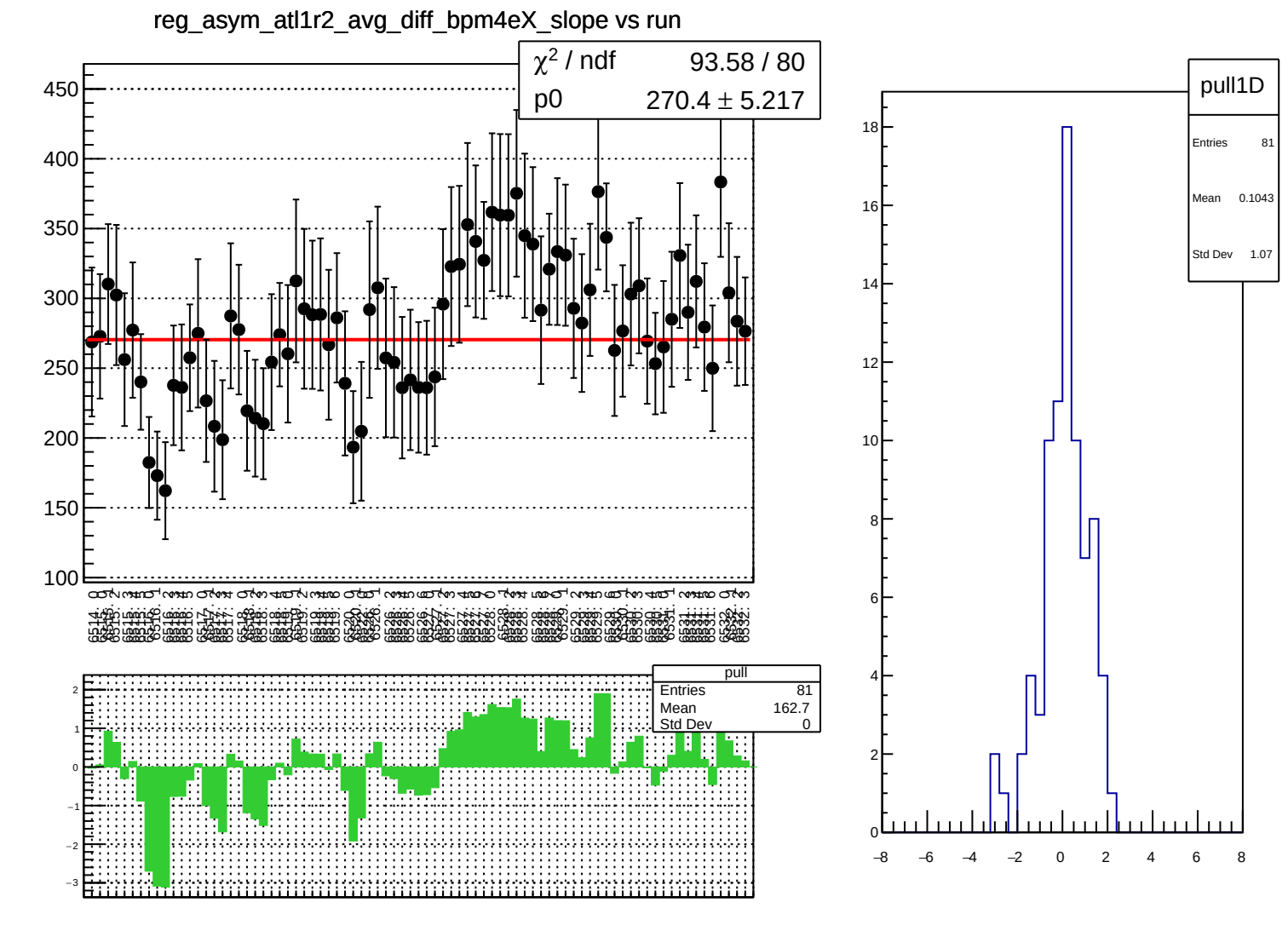

pull1D
Entries 81
Mean 0.03549
Std Dev 1.01

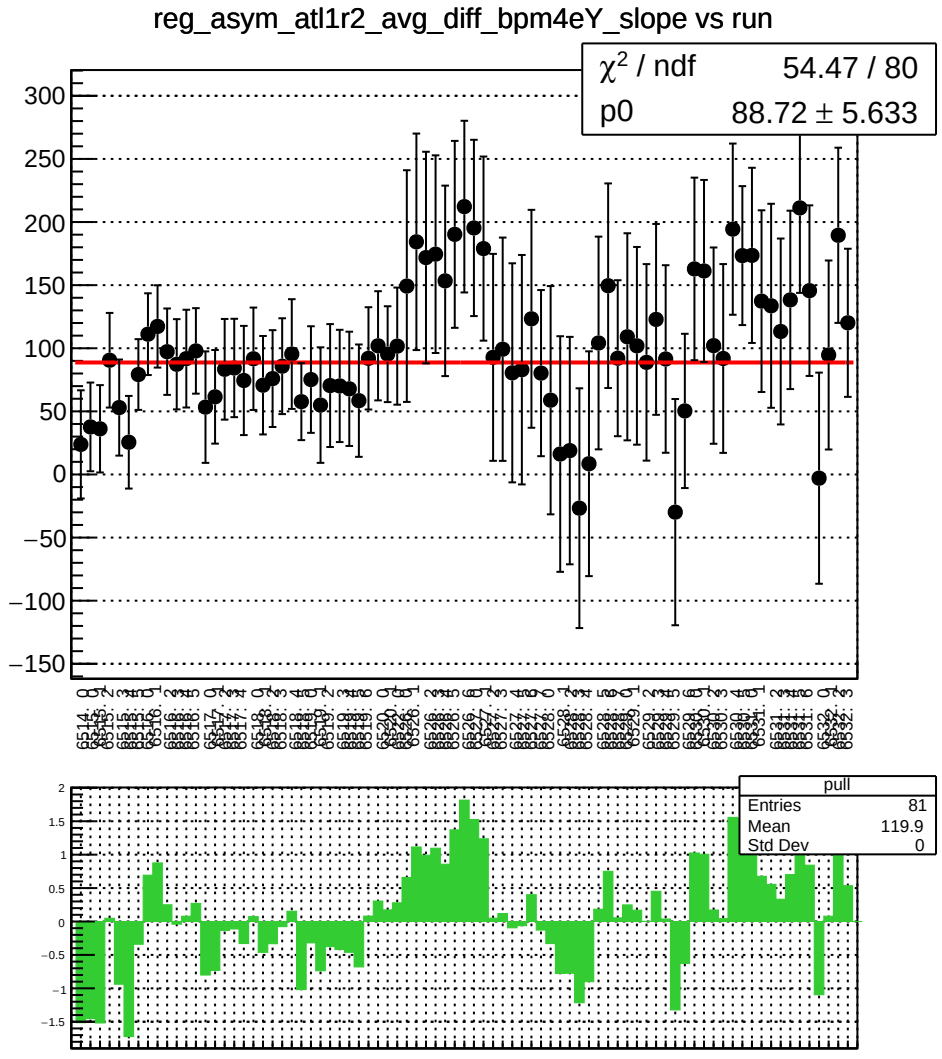

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 98.82 / 80
p0 −189.4 ± 5
pull
Entries 81
Mean 165.7
Std Dev 0

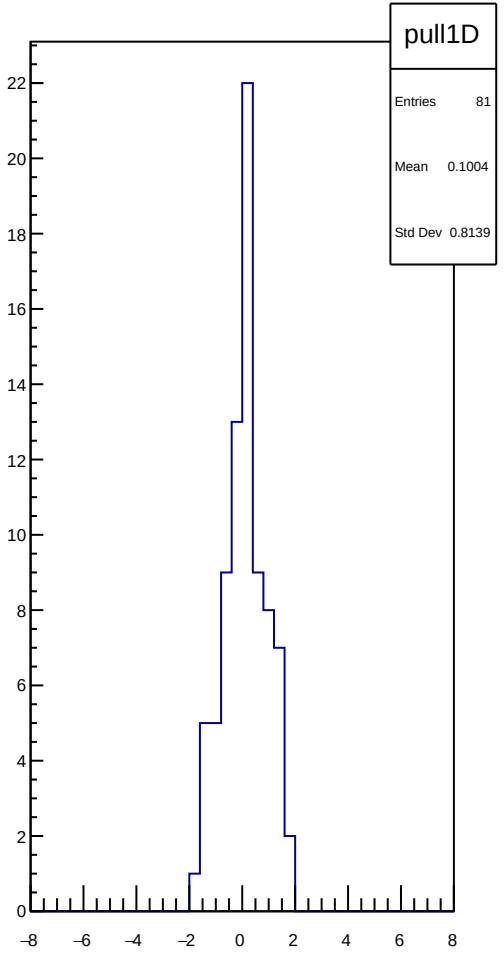

pull1D
Entries 81
Mean −0.1079
Std Dev 1.099

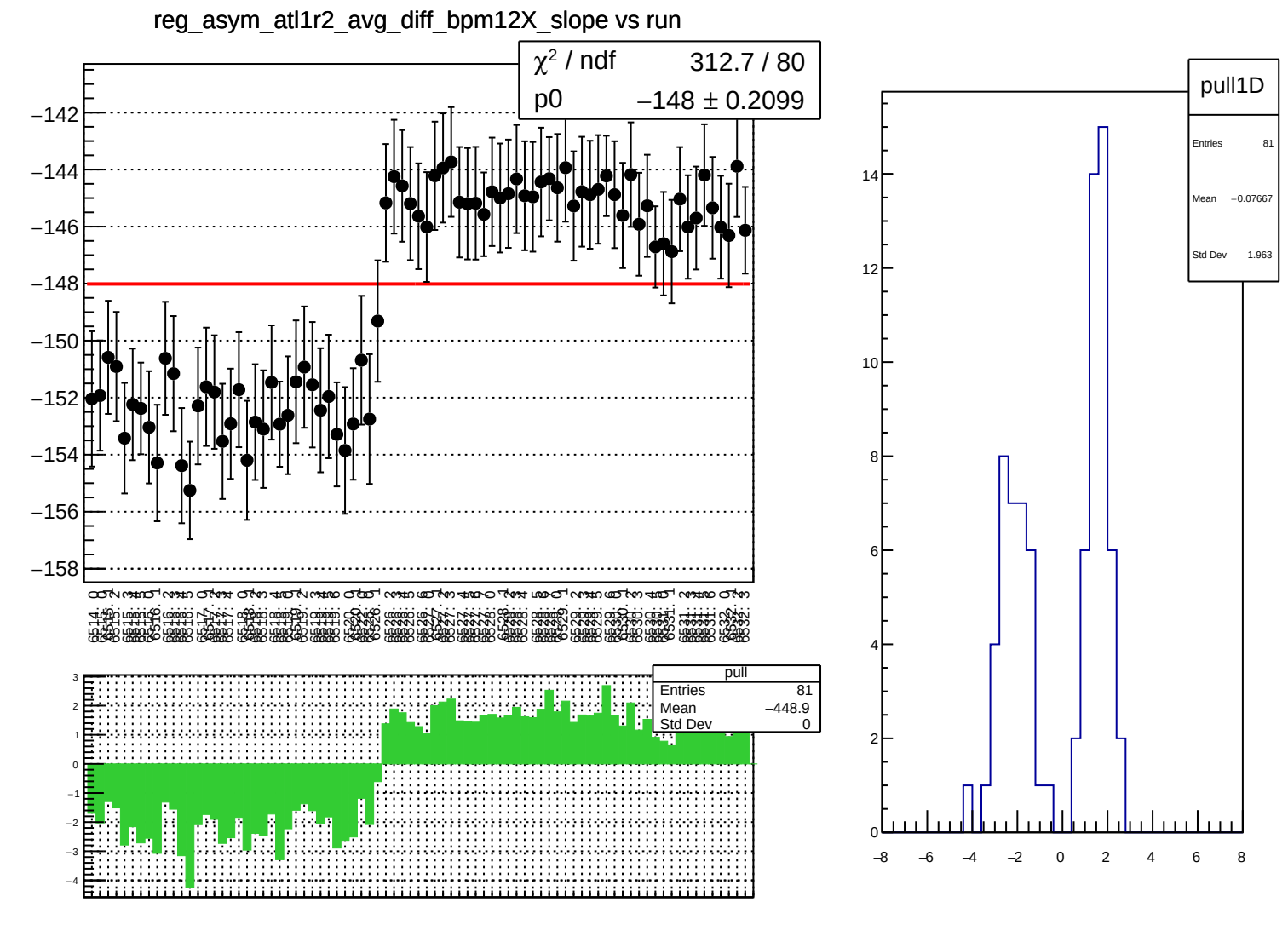

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 61.55 / 80
p0 −6.297 ± 4.908
pull
Entries 81
Mean 95.39
Std Dev 0

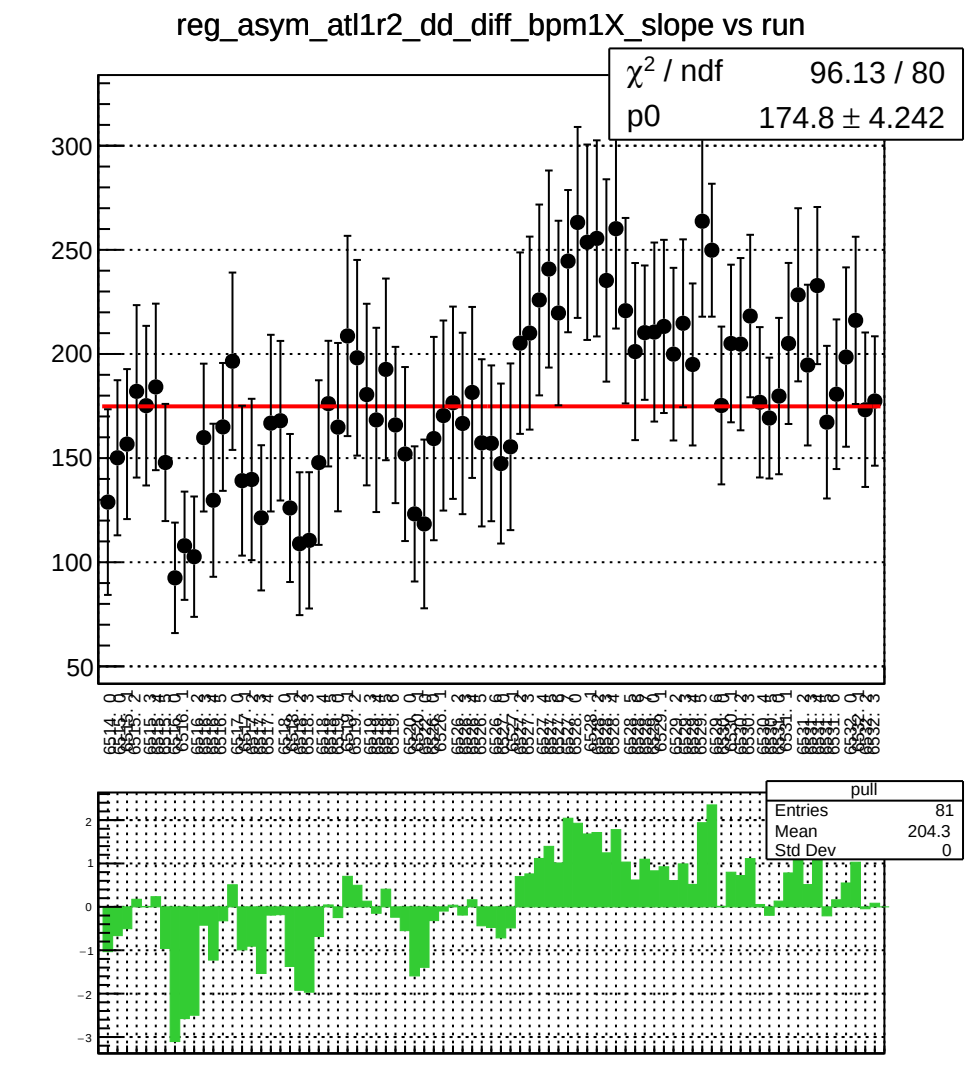

pull1D
Entries 81
Mean −0.1786
Std Dev 0.8532

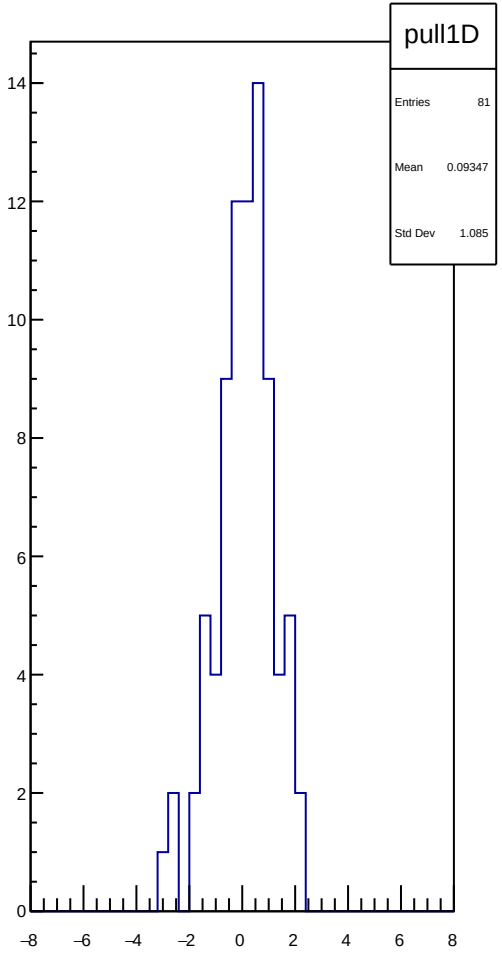

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 93.58 / 80
p0 270.4 ± 5.217
pull
Entries 81
Mean 162.7
Std Dev 0
pull1D
Entries 81
Mean 0.1043
Std Dev 1.07

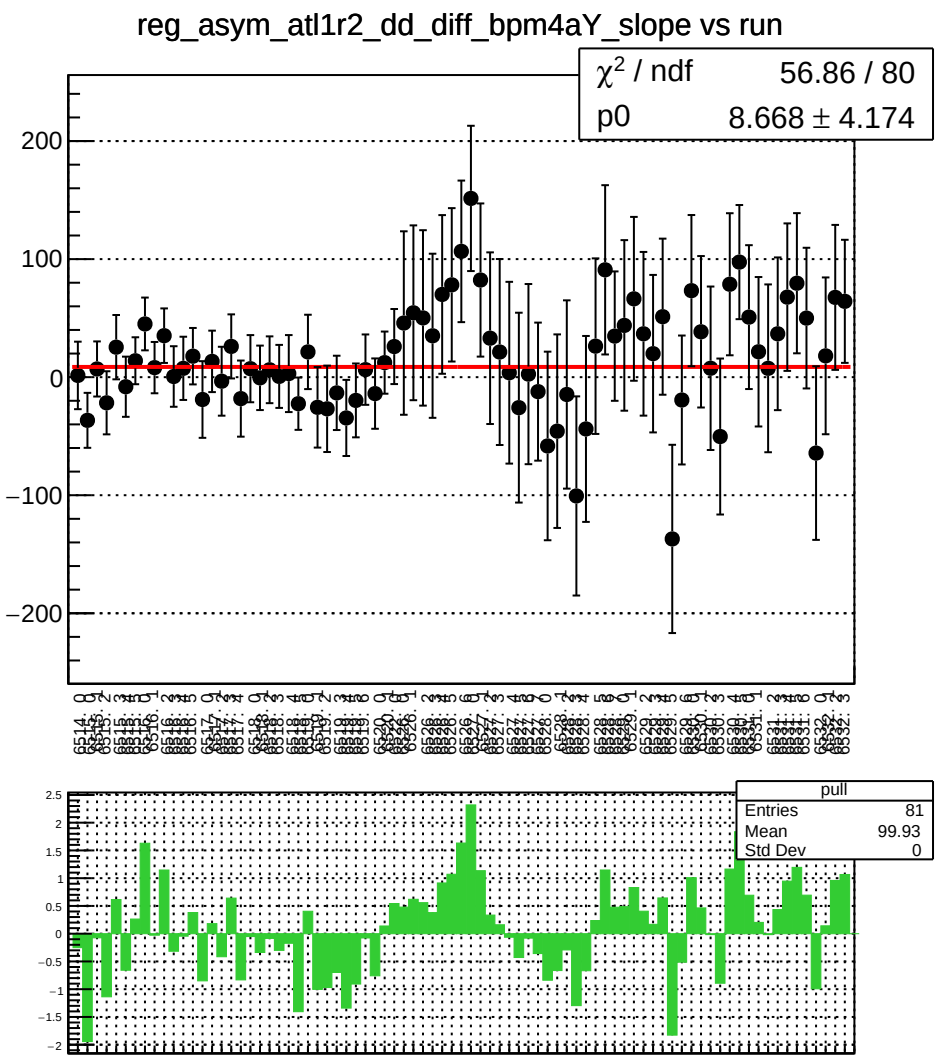

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 54.47 / 80
p0 88.72 ± 5.633
pull
Entries 81
Mean 119.9
Std Dev 0

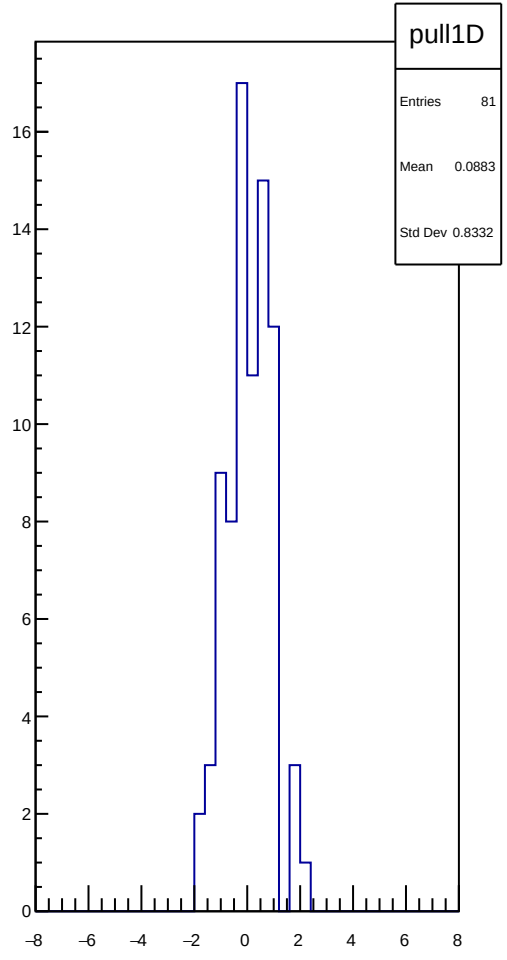

pull1D
Entries 81
Mean 0.1004
Std Dev 0.8139

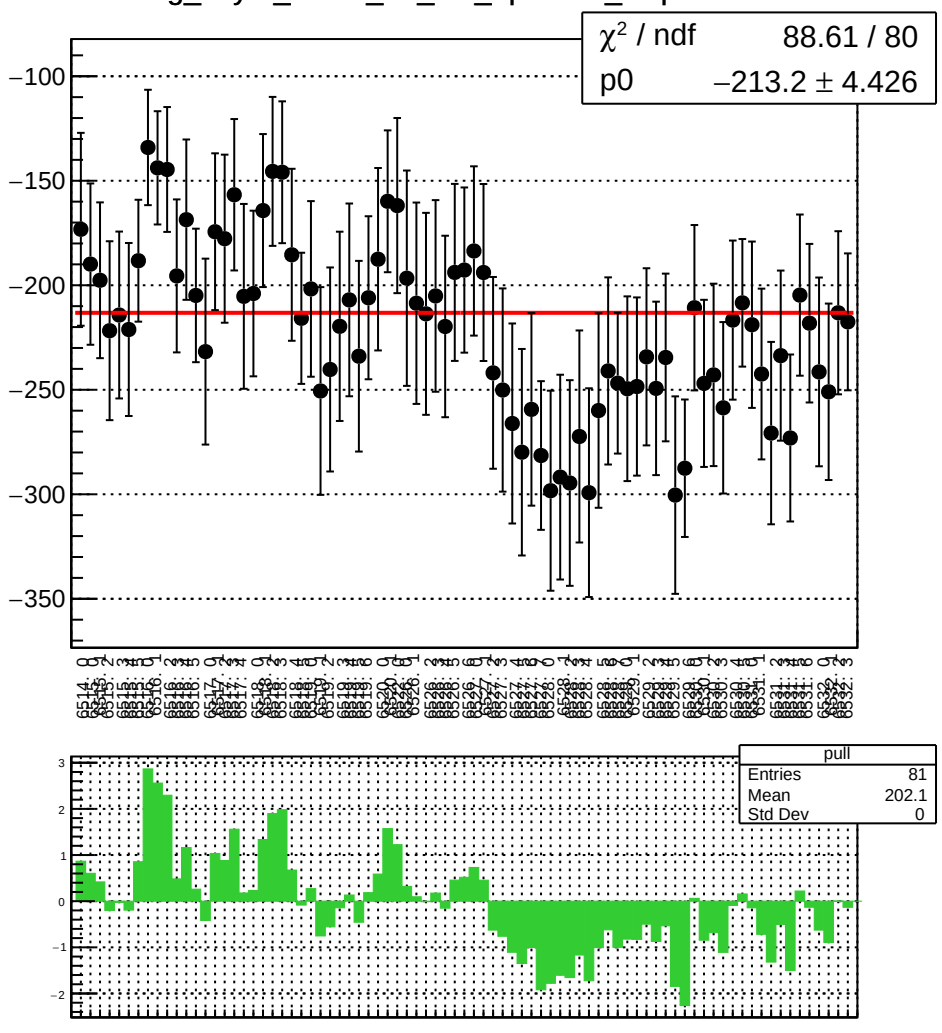

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 312.7 / 80
p0 −148 ± 0.2099
−142
−144
−146
−148
−150
−152
−154
−156
−158
pull
Entries 81
Mean −448.9
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 81
Mean −0.07667
Std Dev 1.963
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

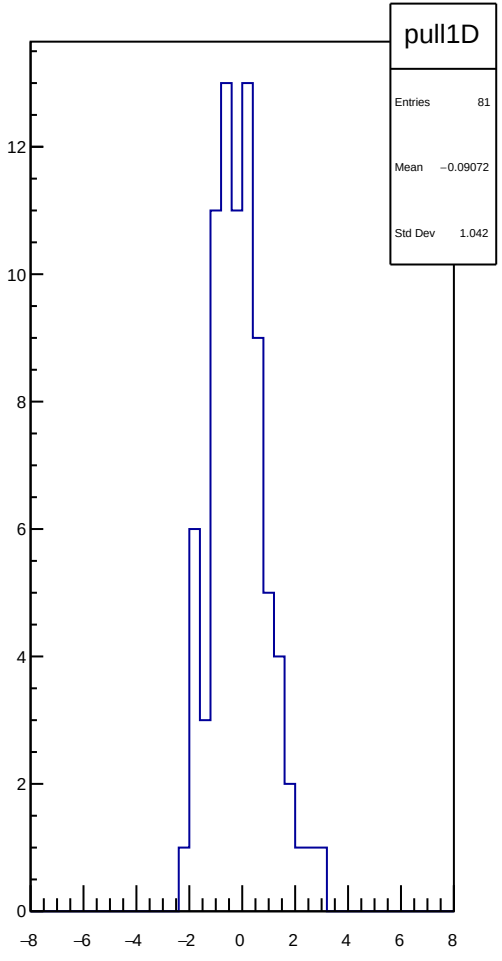

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 96.13 / 80
p0 174.8 ± 4.242
pull
Entries 81
Mean 204.3
Std Dev 0

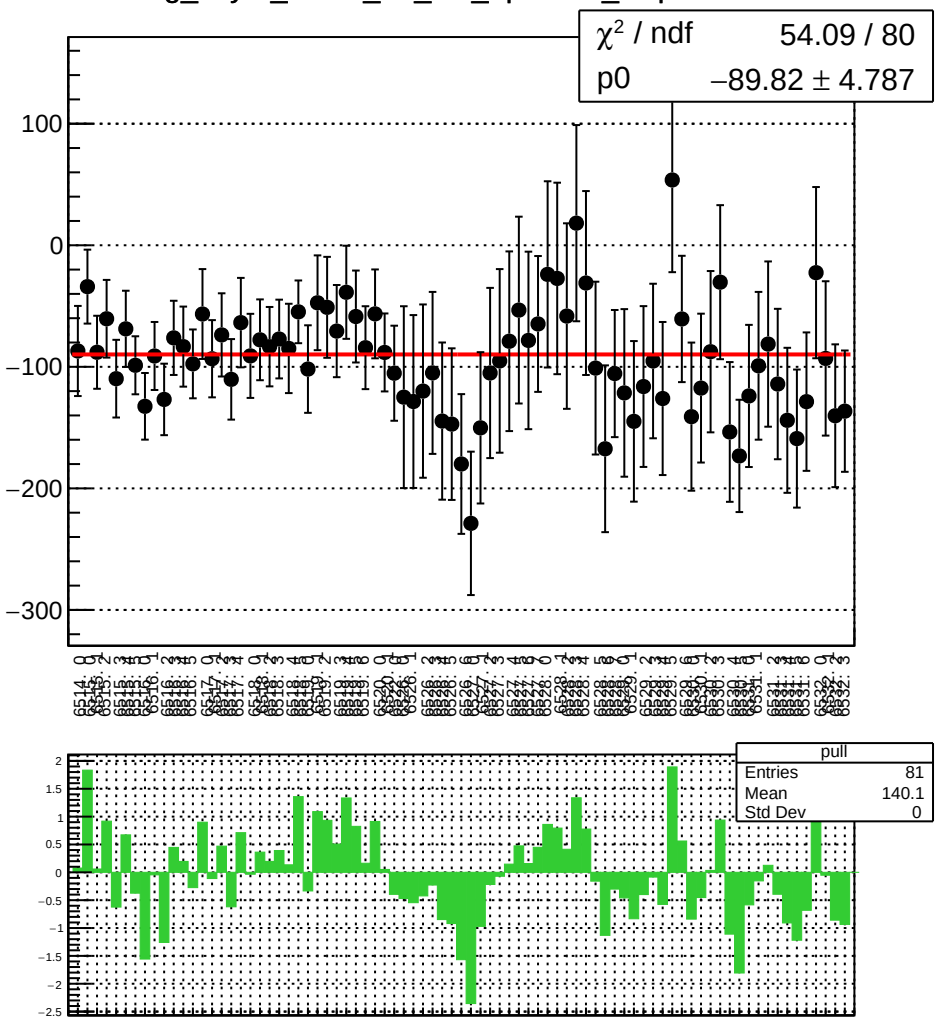

pull1D
Entries 81
Mean 0.09347
Std Dev 1.085

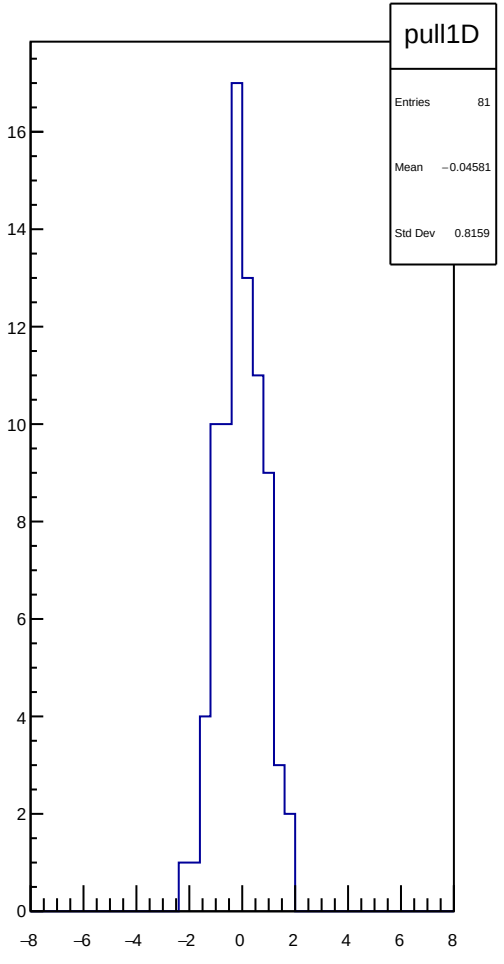

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 56.86 / 80
p0 8.668 ± 4.174
200
100
0
−100
−200
pull
Entries 81
Mean 99.93
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

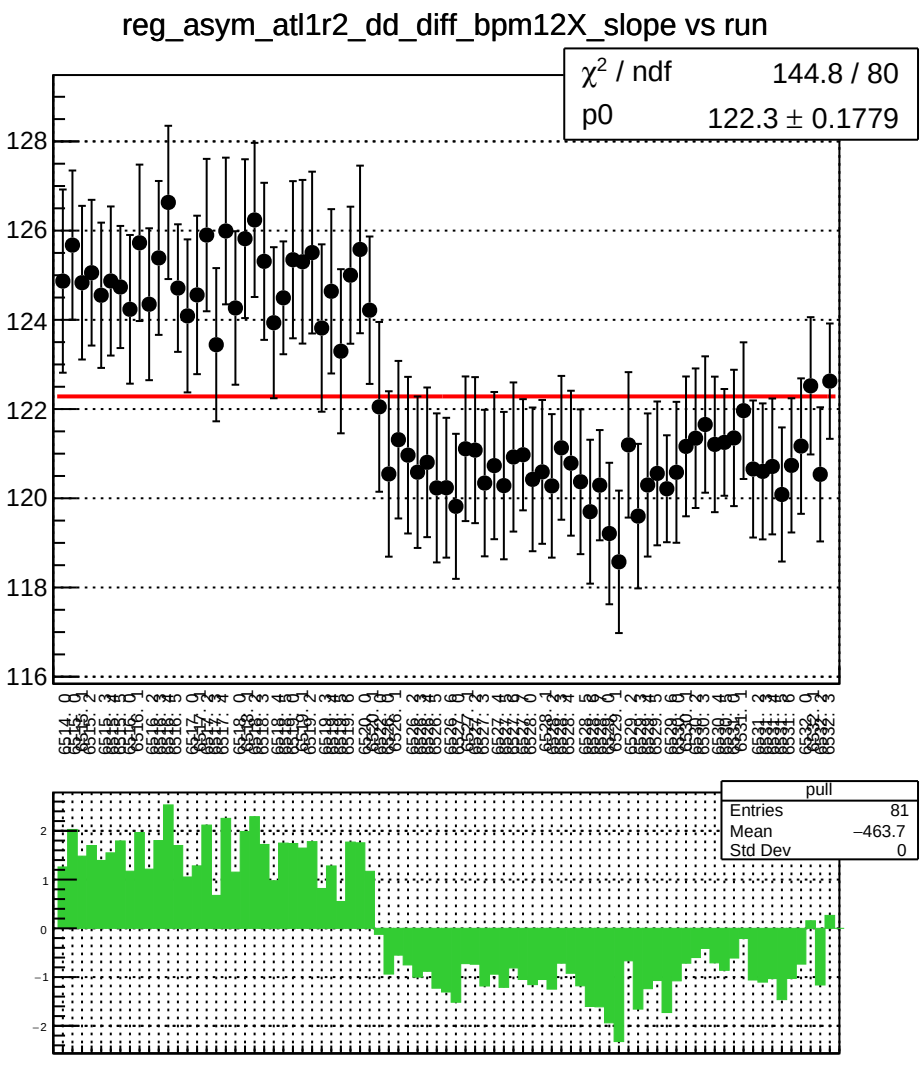

pull1D
Entries 81
Mean 0.0883
Std Dev 0.8332
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

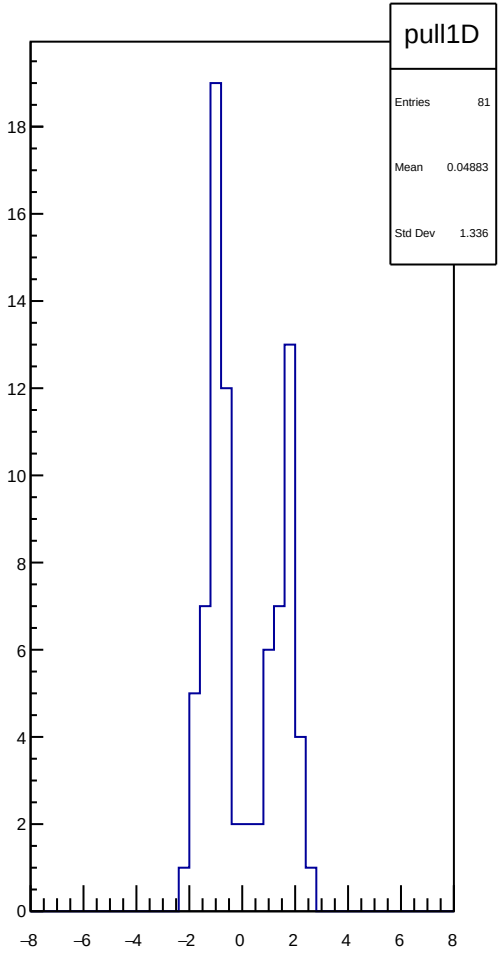

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 88.61 / 80
p0 −213.2 ± 4.426
−100
−150
−200
−250
−300
−350
pull
Entries 81
Mean 202.1
Std Dev 0
3
2
1
0
−1
−2

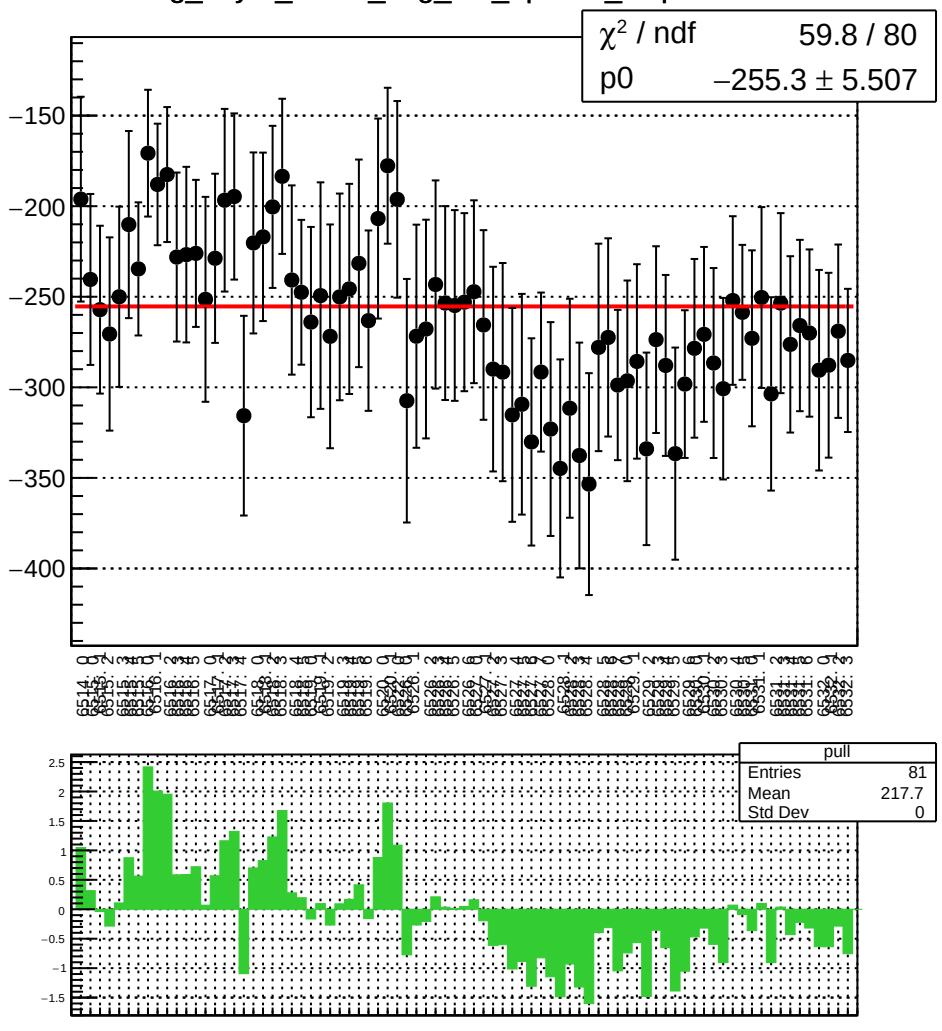

pull1D
Entries 81
Mean −0.09072
Std Dev 1.042
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

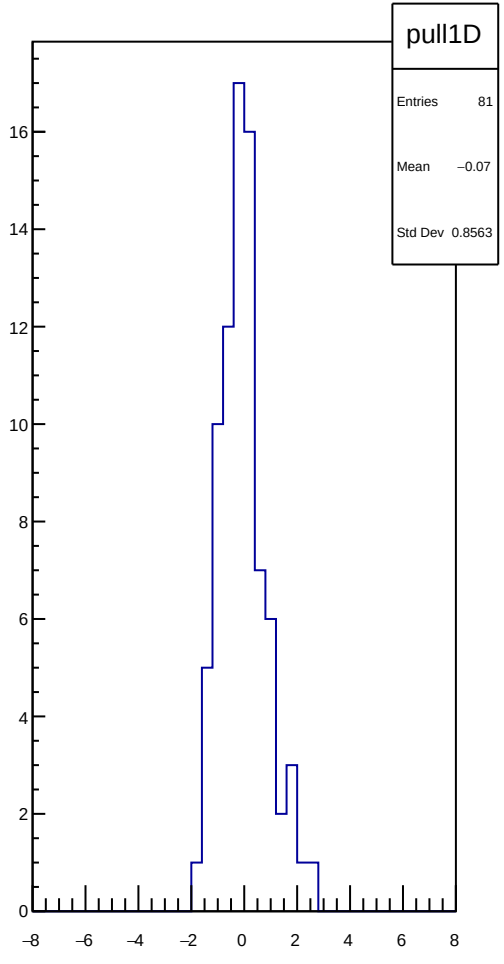

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 54.09 / 80
p0 −89.82 ± 4.787
pull
Entries 81
Mean 140.1
Std Dev 0

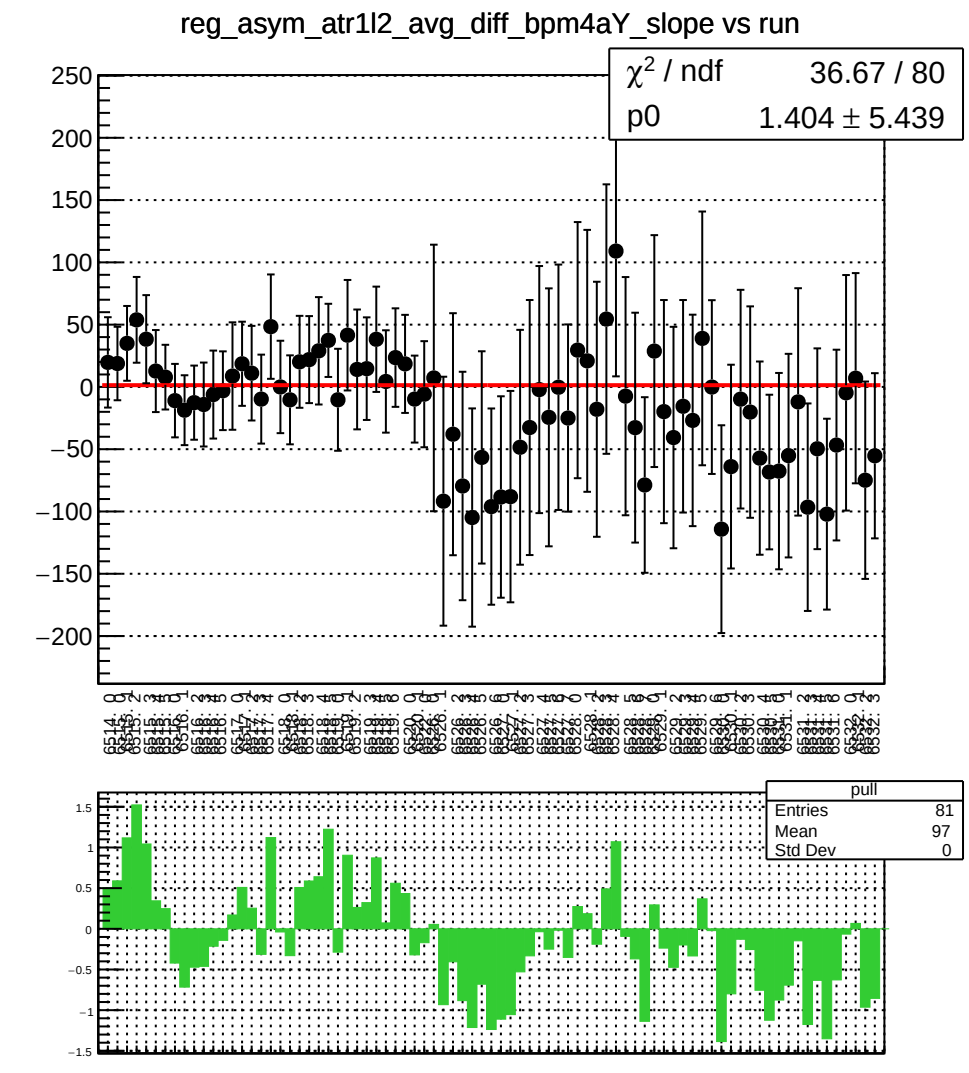

pull1D
Entries 81
Mean −0.04581
Std Dev 0.8159

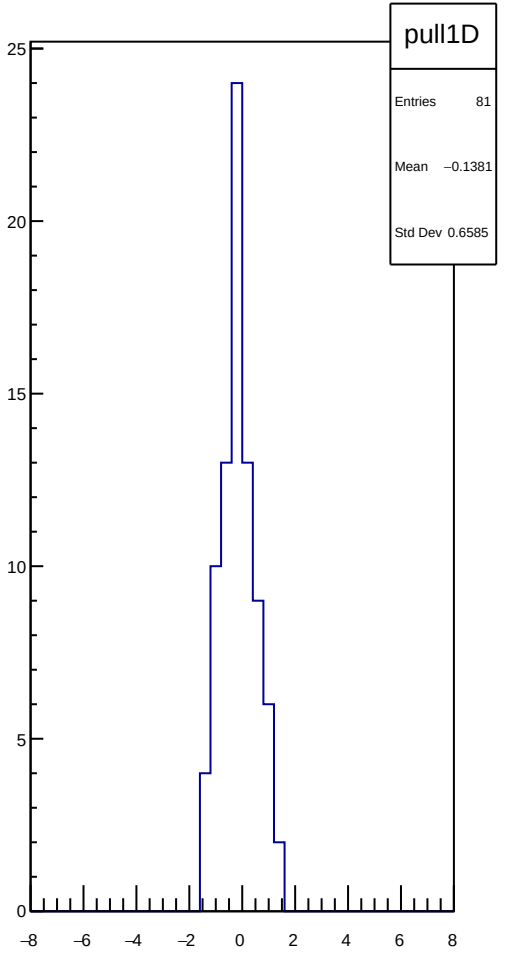

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 144.8 / 80
p0 122.3 ± 0.1779
128
126
124
122
120
118
116
pull
Entries 81
Mean −463.7
Std Dev 0
2
1
0
−1
−2

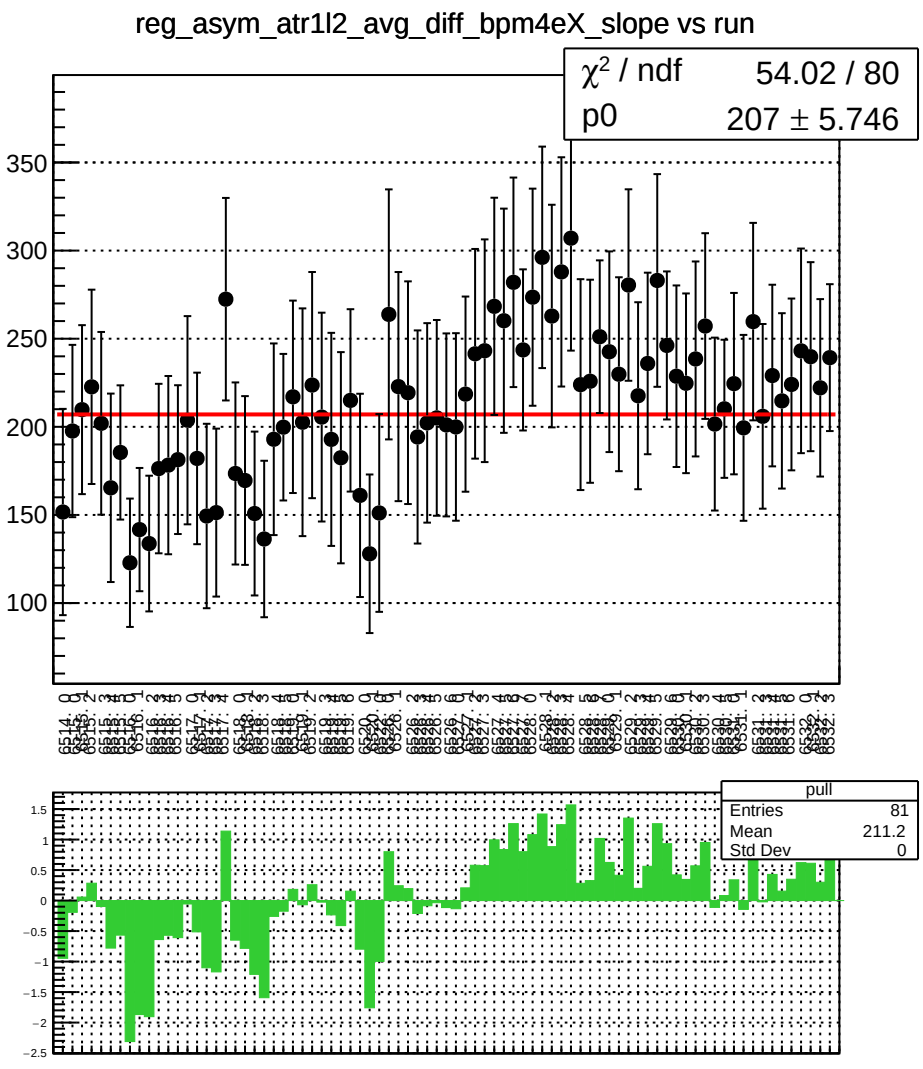

pull1D
Entries 81
Mean 0.04883
Std Dev 1.336
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

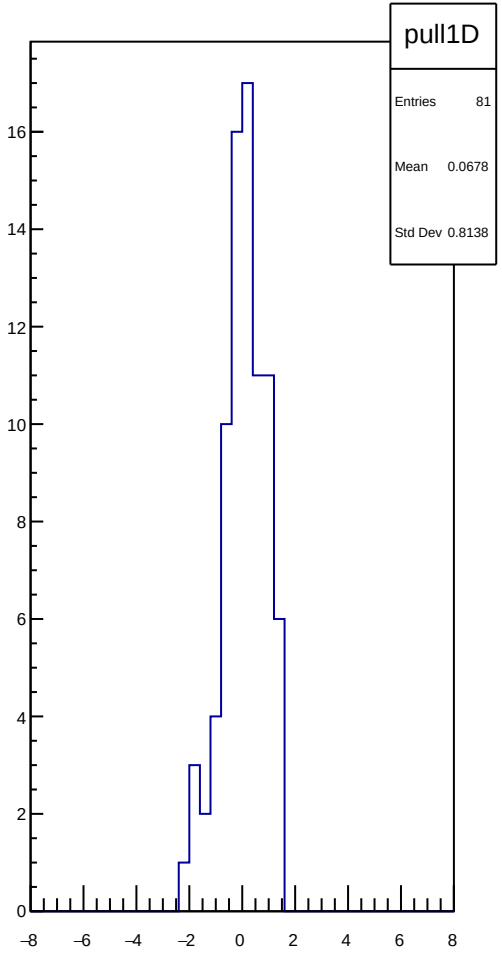

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 59.8 / 80
p0 −255.3 ± 5.507
−150
−200
−250
−300
−350
−400
pull
Entries 81
Mean 217.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

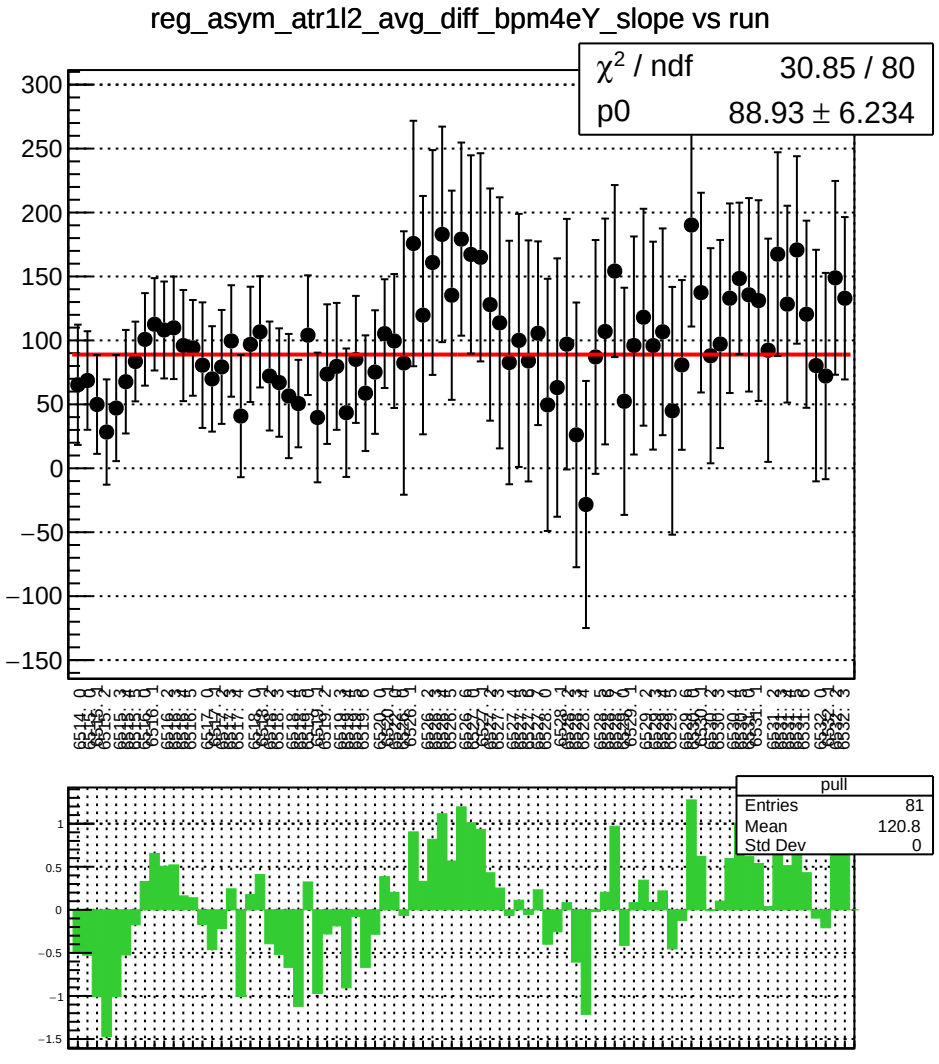

pull1D
Entries 81
Mean −0.07
Std Dev 0.8563
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

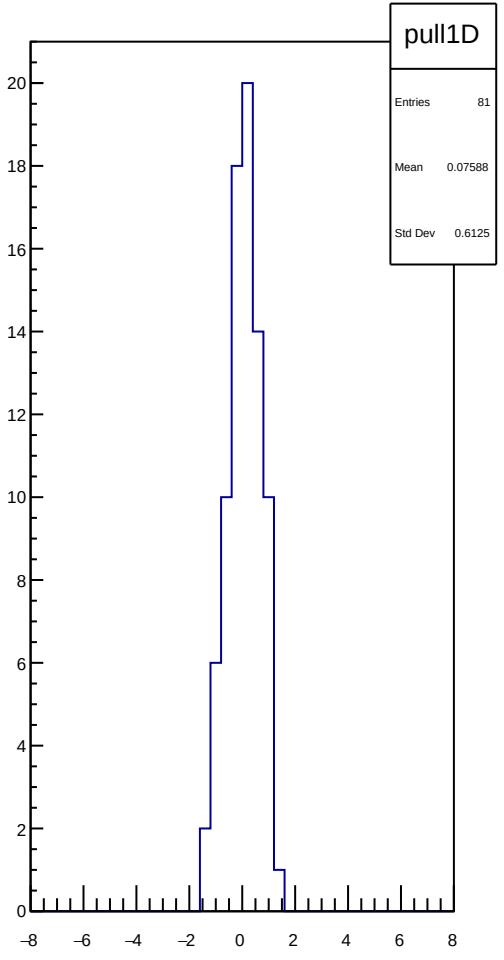

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 36.67 / 80
p0 1.404 ± 5.439
pull
Entries 81
Mean 97
Std Dev 0

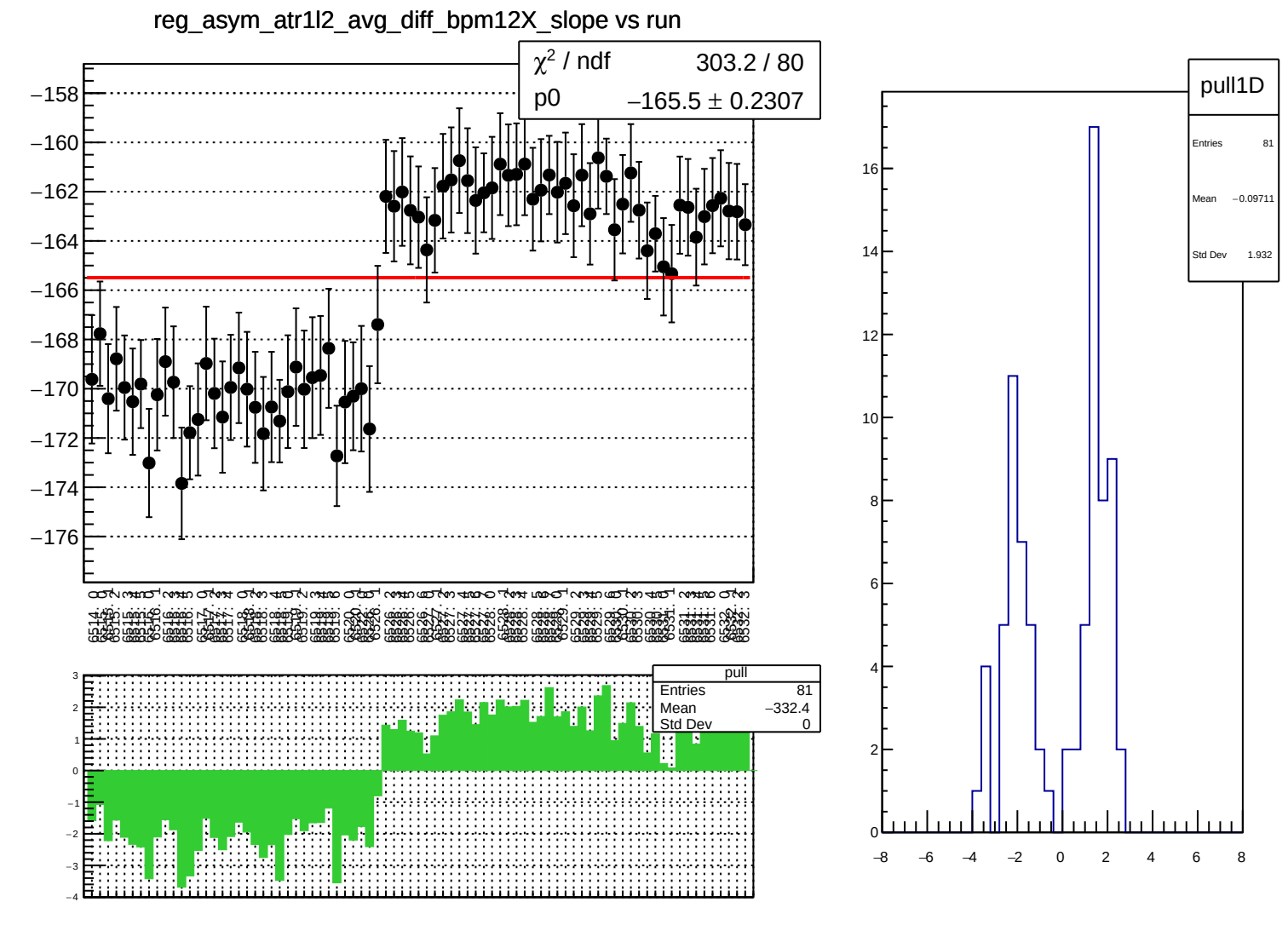

pull1D
Entries 81
Mean −0.1381
Std Dev 0.6585

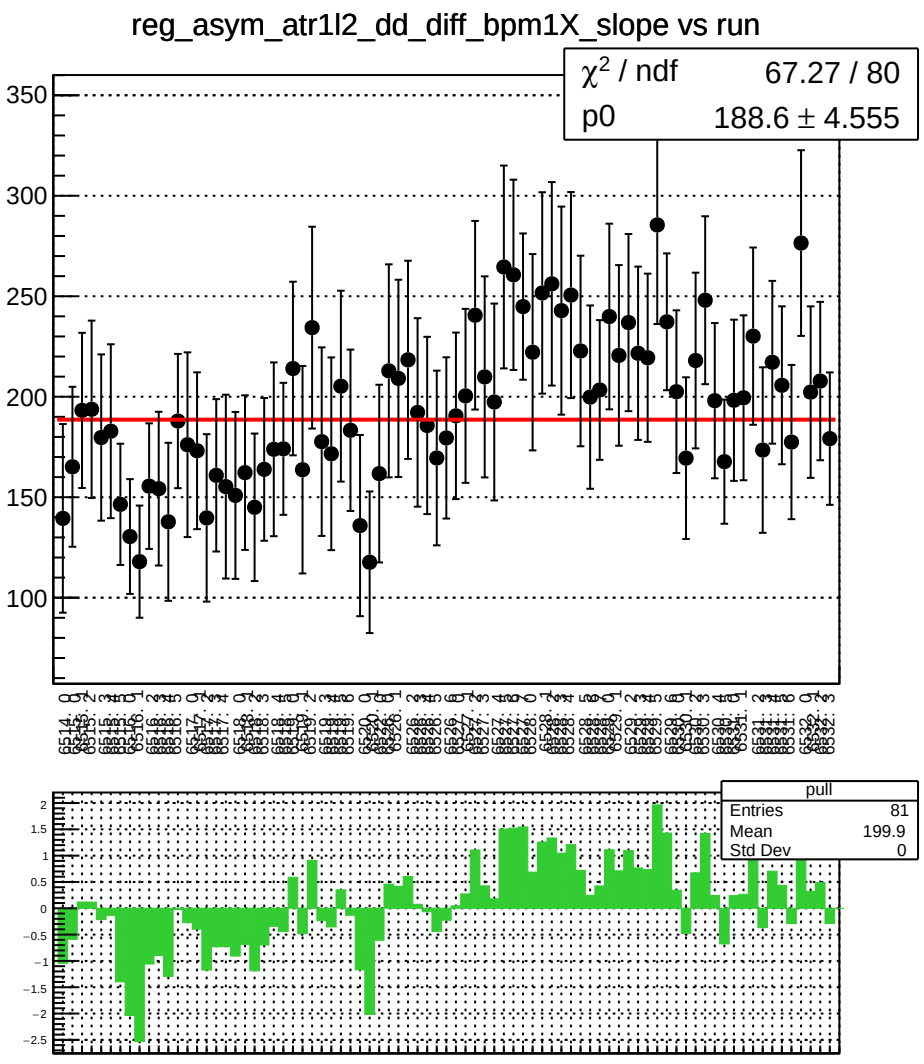

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 54.02 / 80
p0 207 ± 5.746
pull
Entries 81
Mean 211.2
Std Dev 0

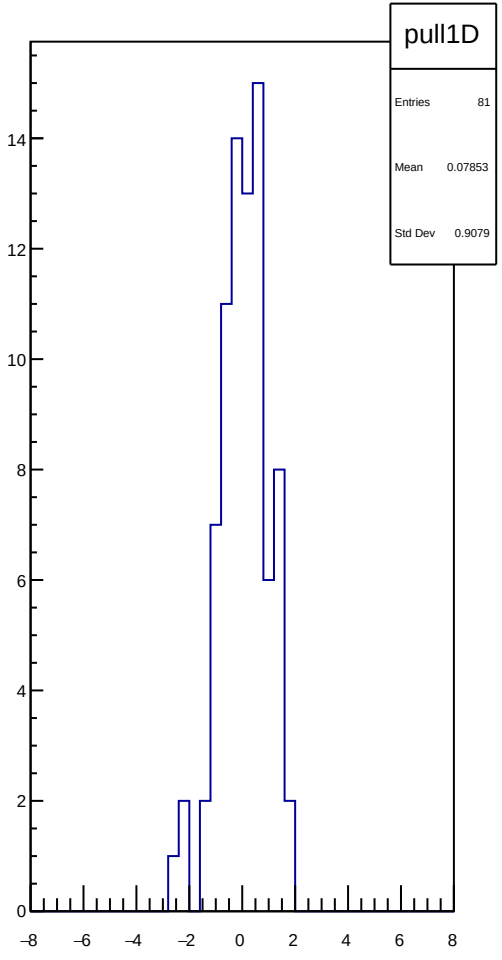

pull1D
Entries 81
Mean 0.0678
Std Dev 0.8138

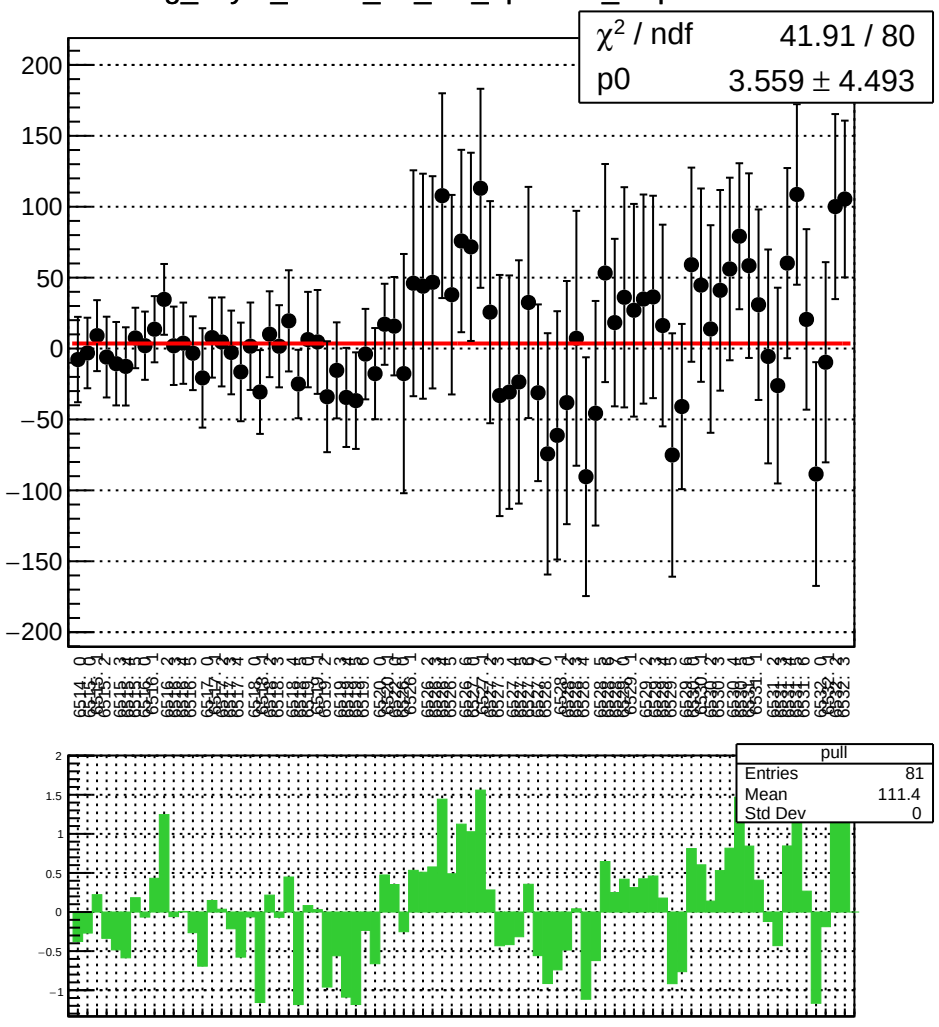

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 30.85 / 80
p0 88.93 ± 6.234
pull
Entries 81
Mean 120.8
Std Dev 0

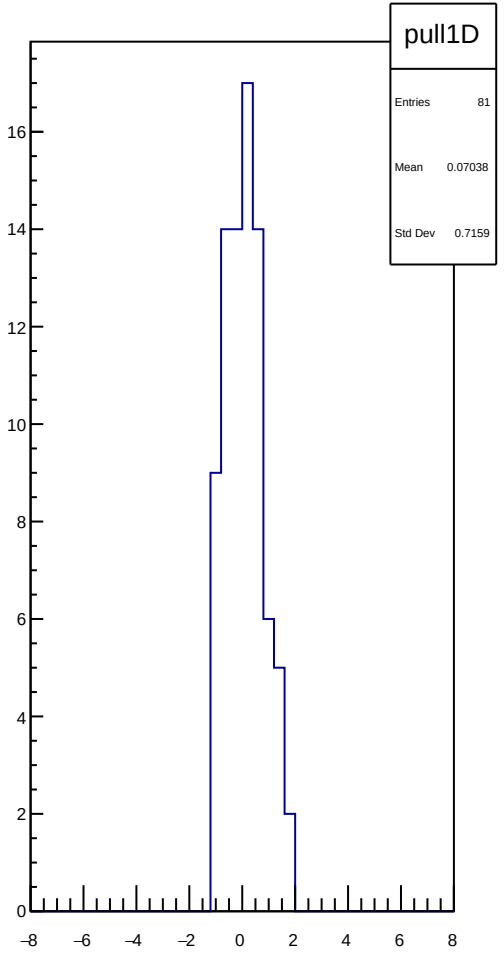

pull1D
Entries 81
Mean 0.07588
Std Dev 0.6125

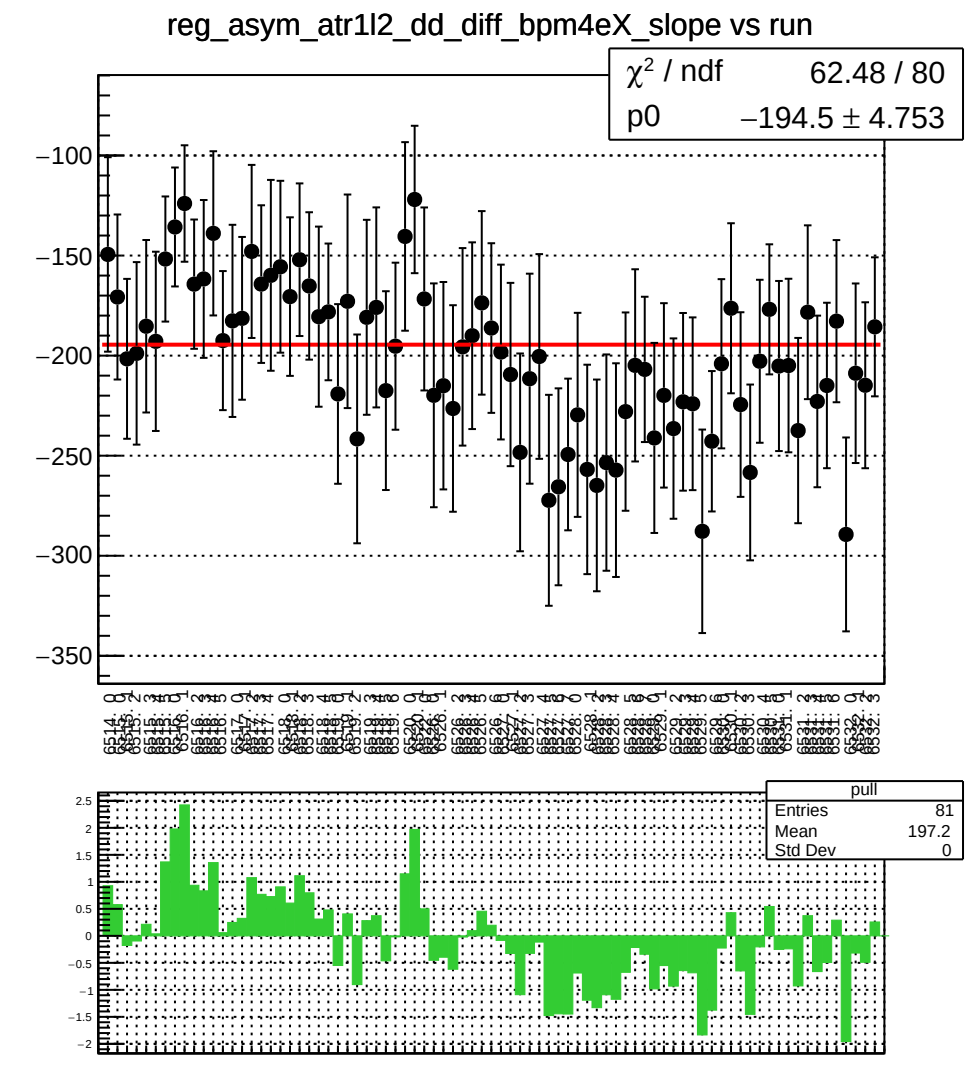

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 303.2 / 80
p0 −165.5 ± 0.2307
−158
−160
−162
−164
−166
−168
−170
−172
−174
−176
pull
Entries 81
Mean −332.4
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 81
Mean −0.09711
Std Dev 1.932
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

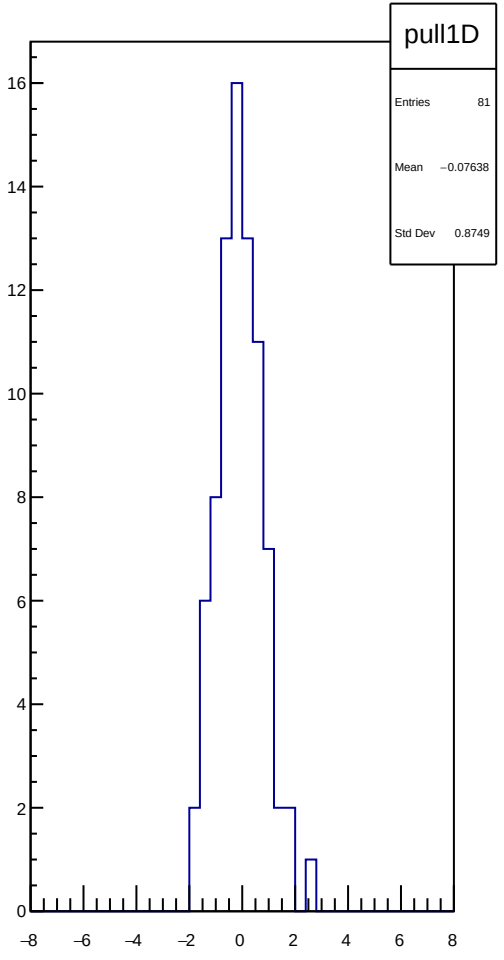

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 67.27 / 80
p0 188.6 ± 4.555
pull
Entries 81
Mean 199.9
Std Dev 0

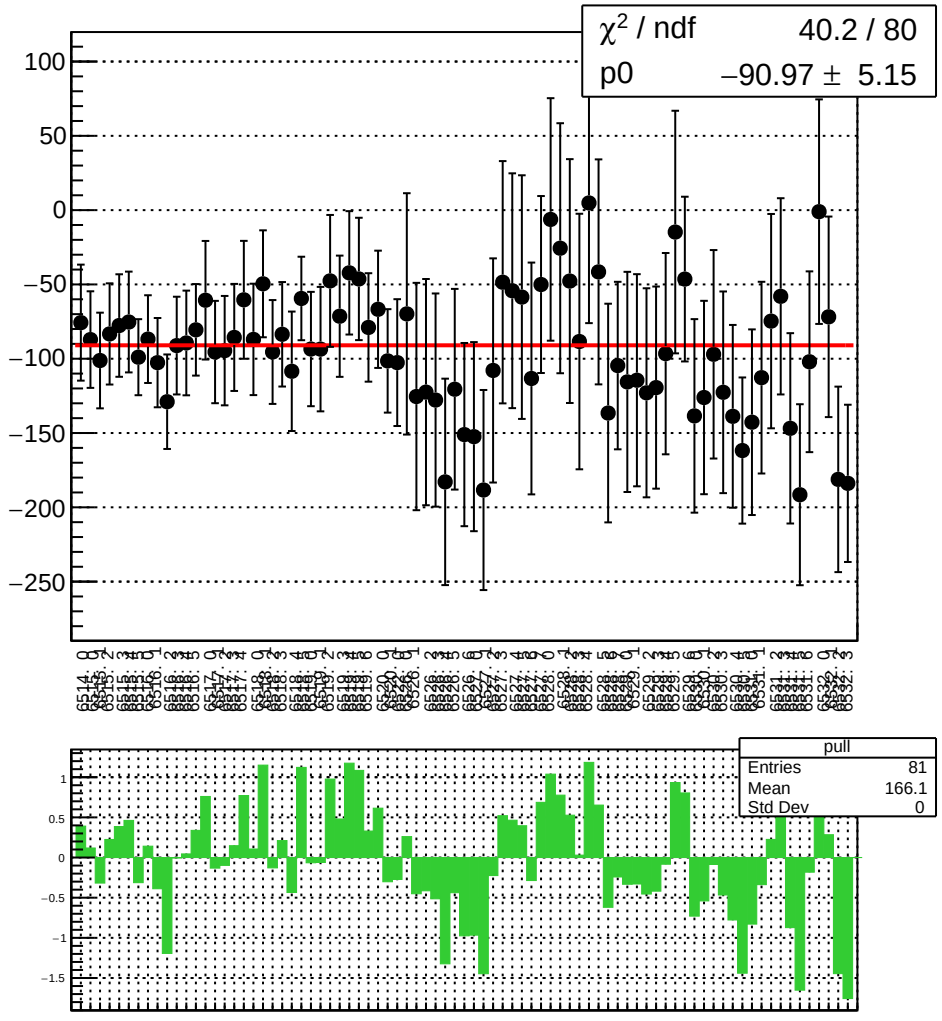

pull1D
Entries 81
Mean 0.07853
Std Dev 0.9079

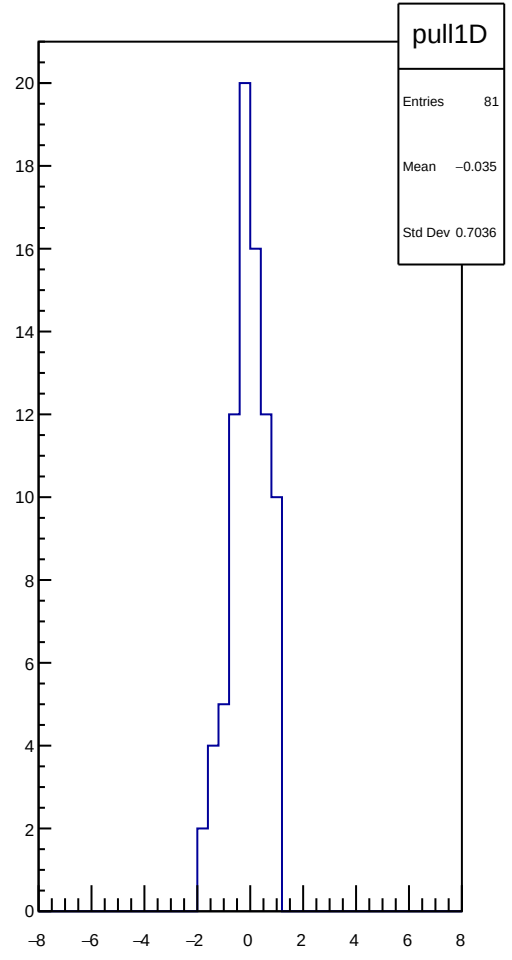

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 41.91 / 80
p0 3.559 ± 4.493
pull
Entries 81
Mean 111.4
Std Dev 0

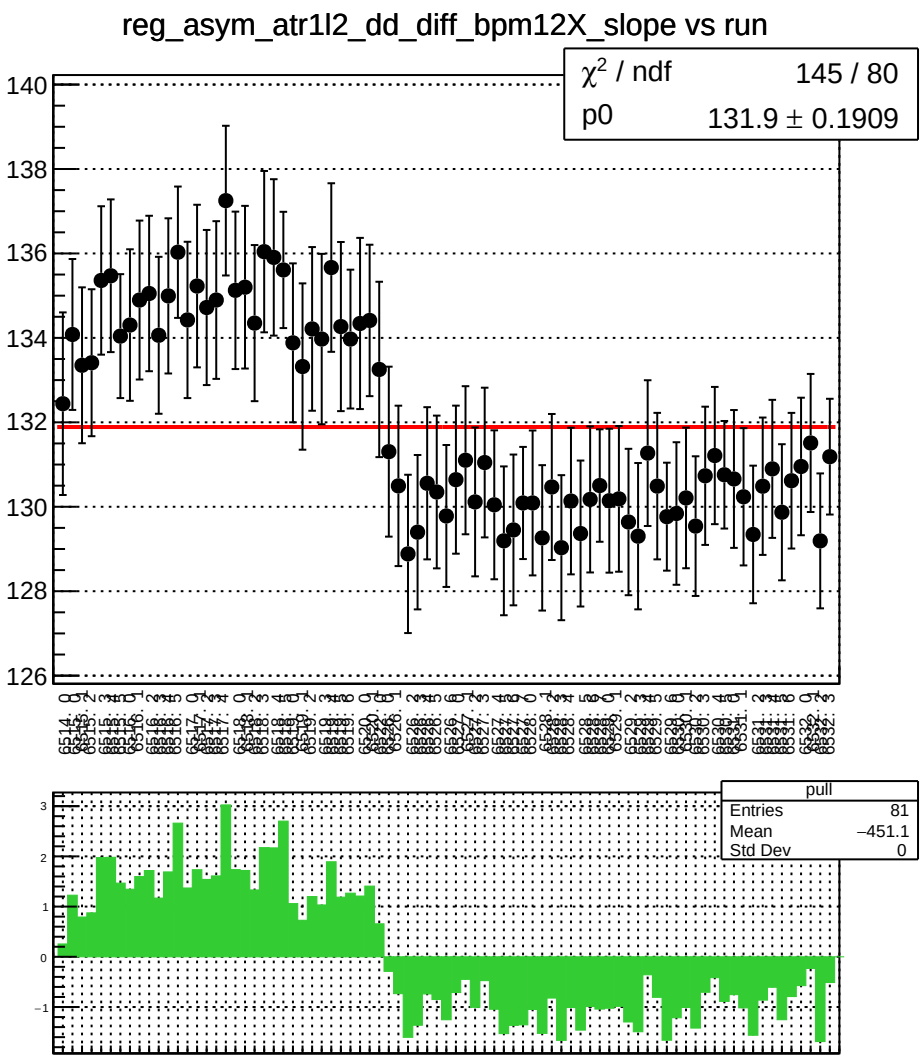

pull1D
Entries 81
Mean 0.07038
Std Dev 0.7159

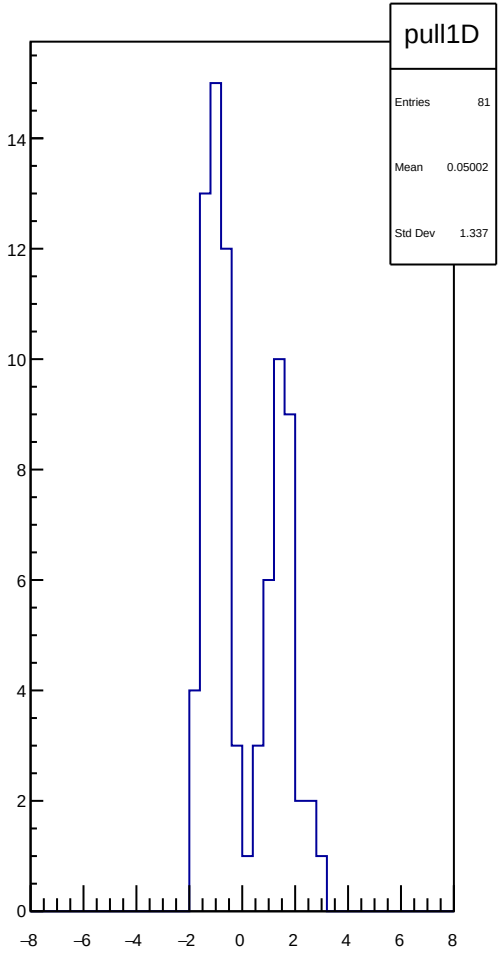

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 62.48 / 80
p0 −194.5 ± 4.753
−100
−150
−200
−250
−300
−350
pull
Entries 81
Mean 197.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

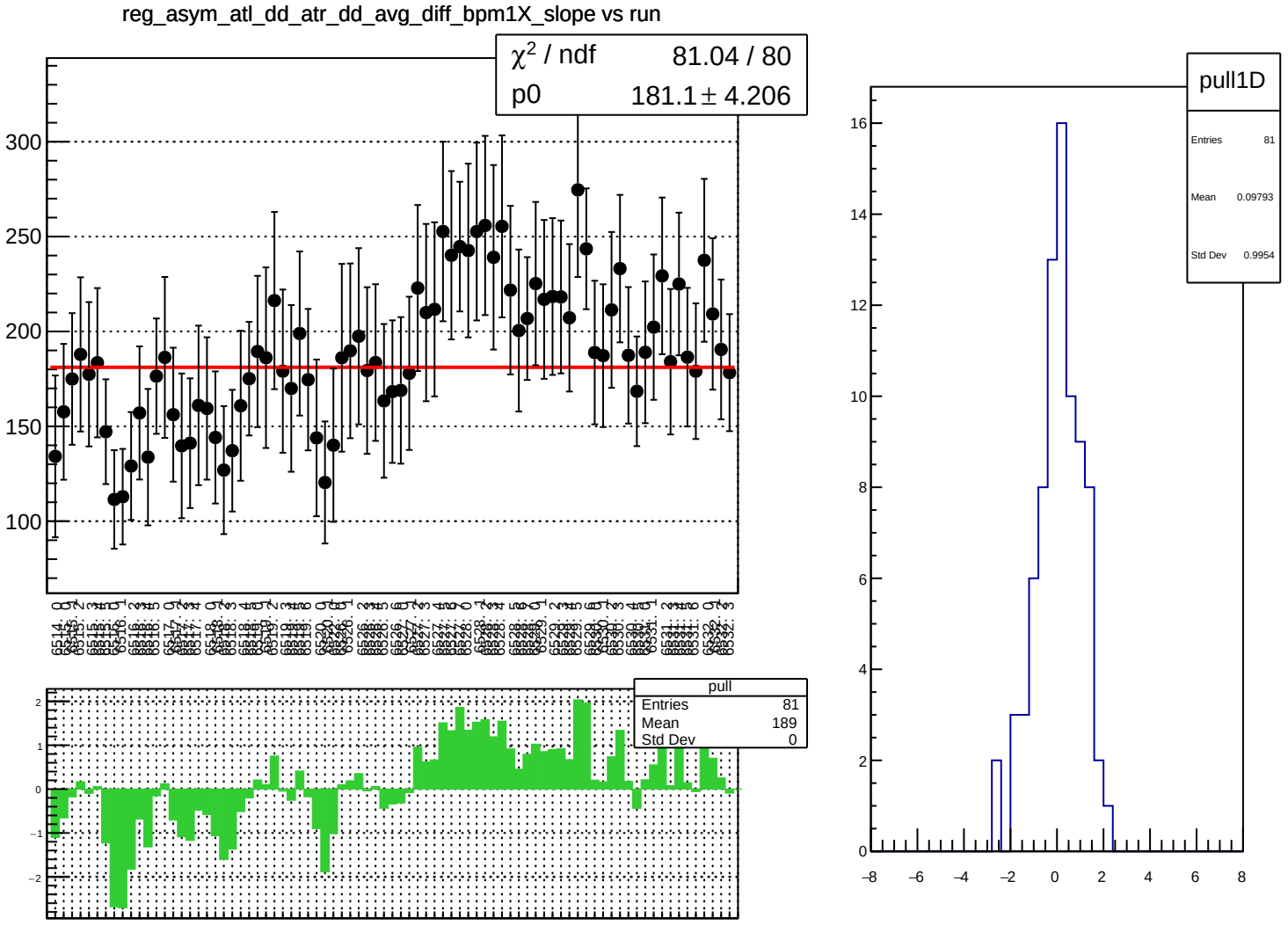

pull1D
Entries 81
Mean −0.07638
Std Dev 0.8749
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

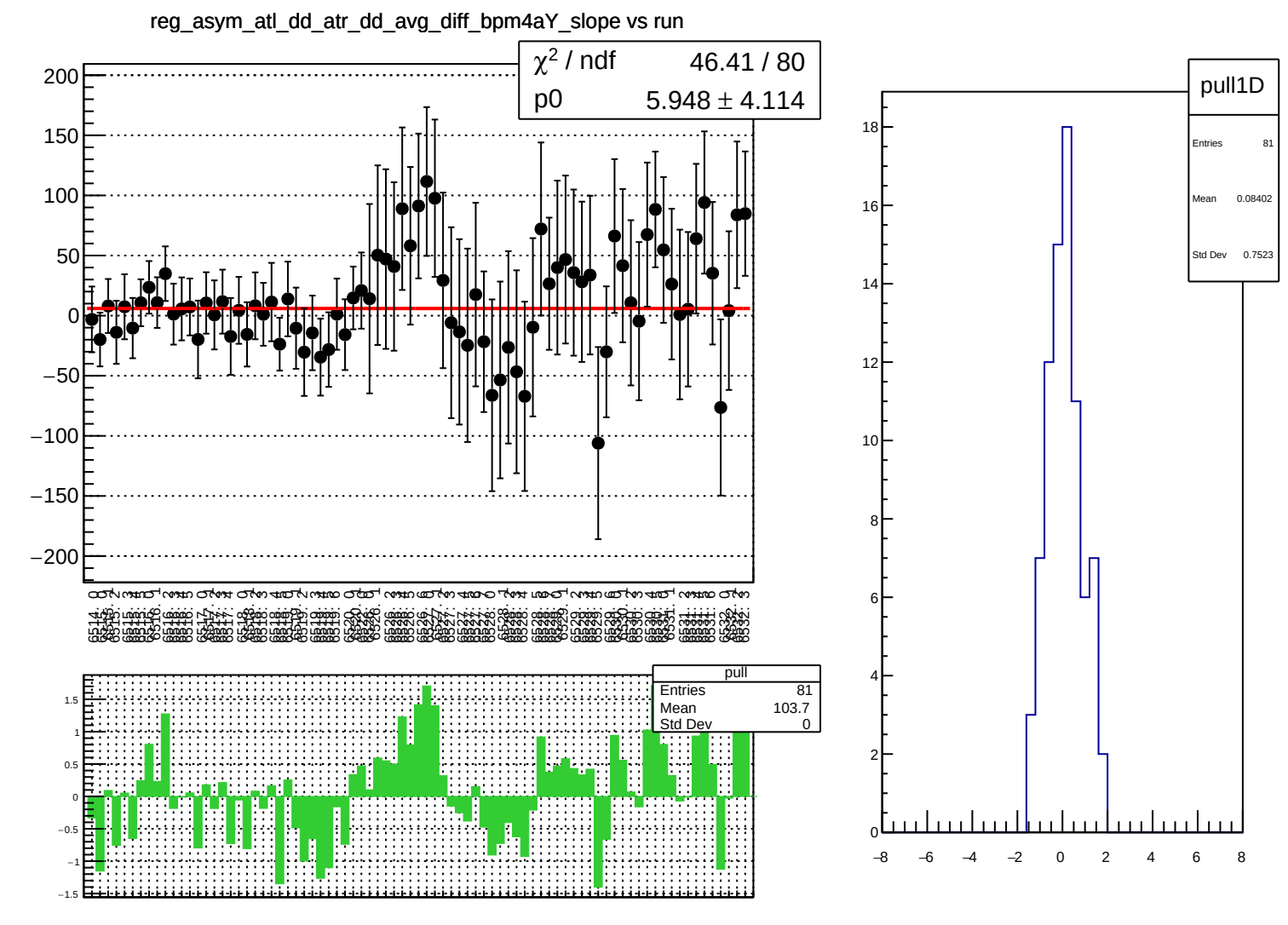

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 40.2 / 80
p0 −90.97 ± 5.15
pull
Entries 81
Mean 166.1
Std Dev 0

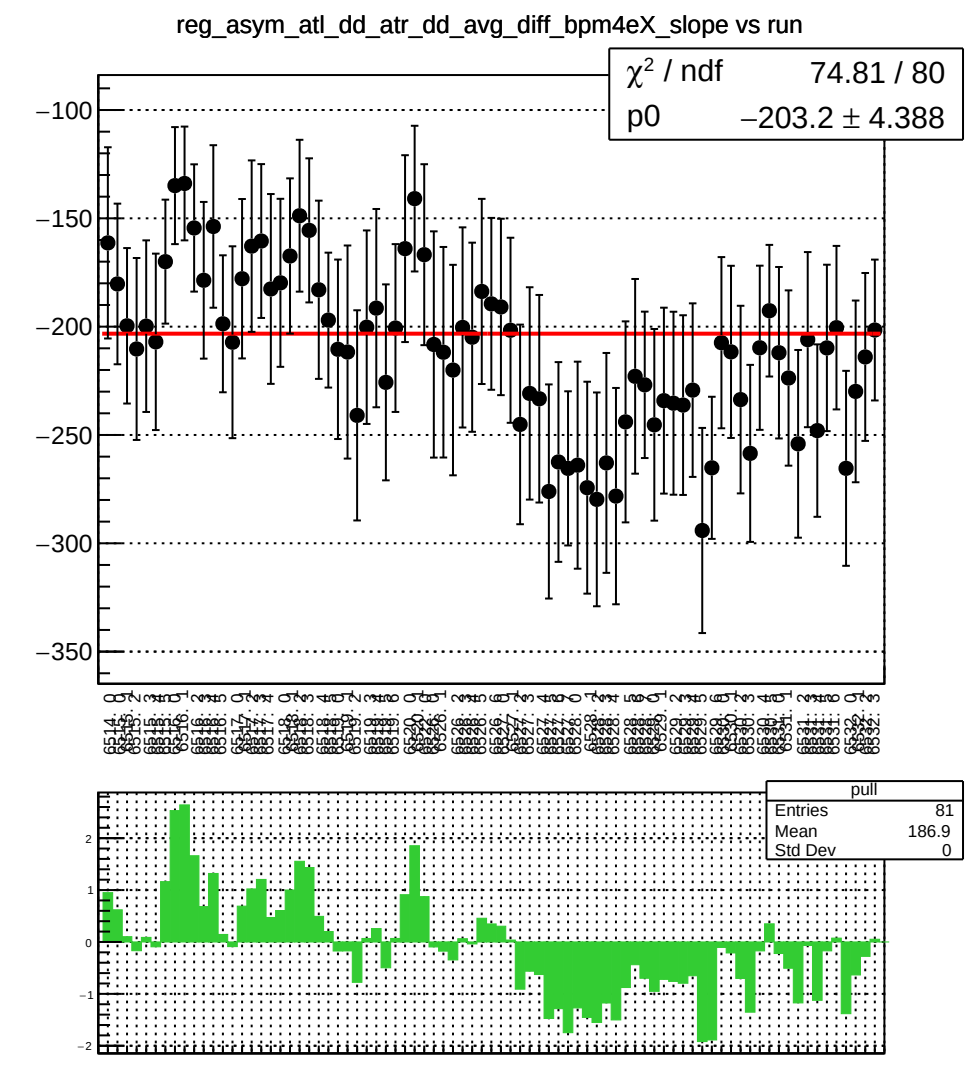

pull1D
Entries 81
Mean −0.035
Std Dev 0.7036

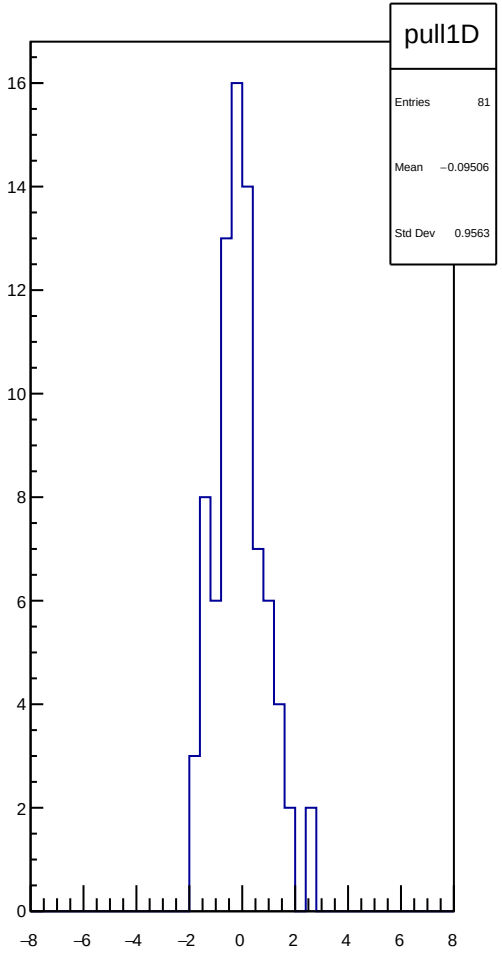

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 145 / 80
p0 131.9 ± 0.1909
pull
Entries 81
Mean −451.1
Std Dev 0

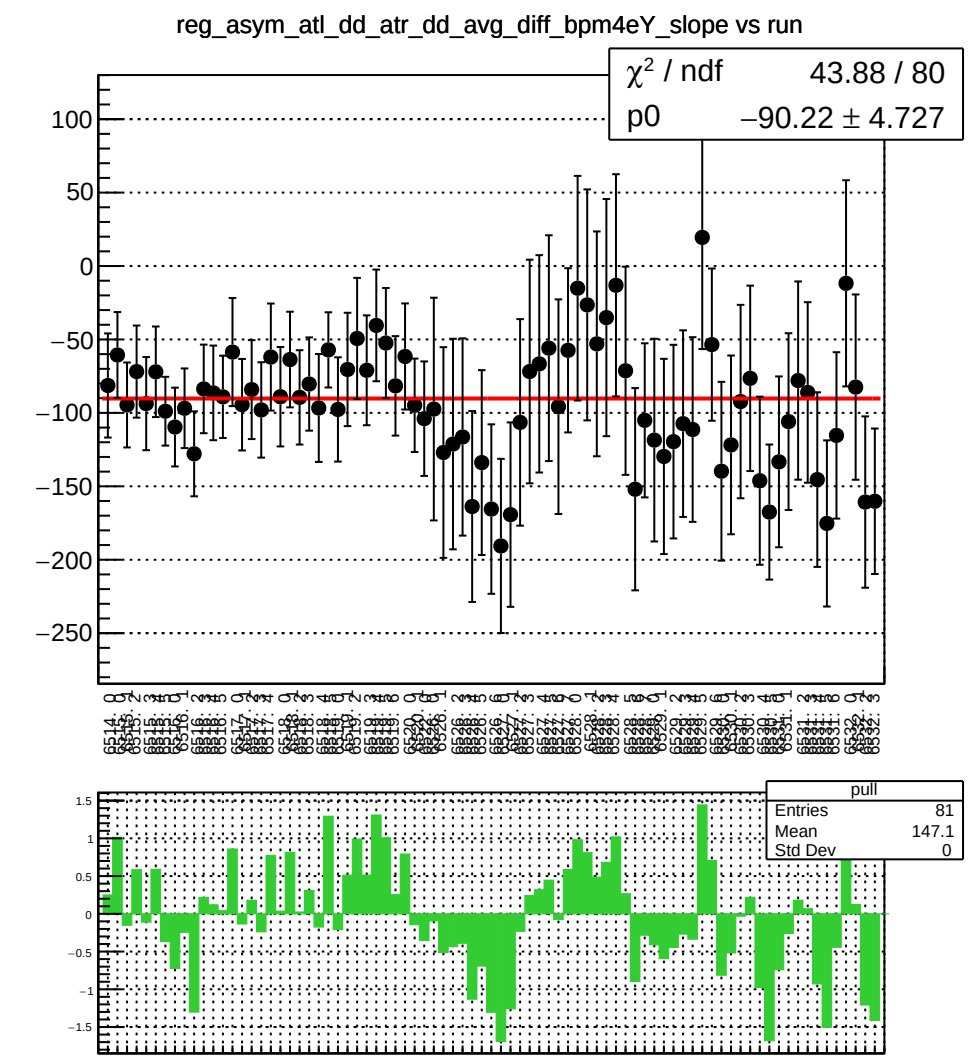

pull1D
Entries 81
Mean 0.05002
Std Dev 1.337

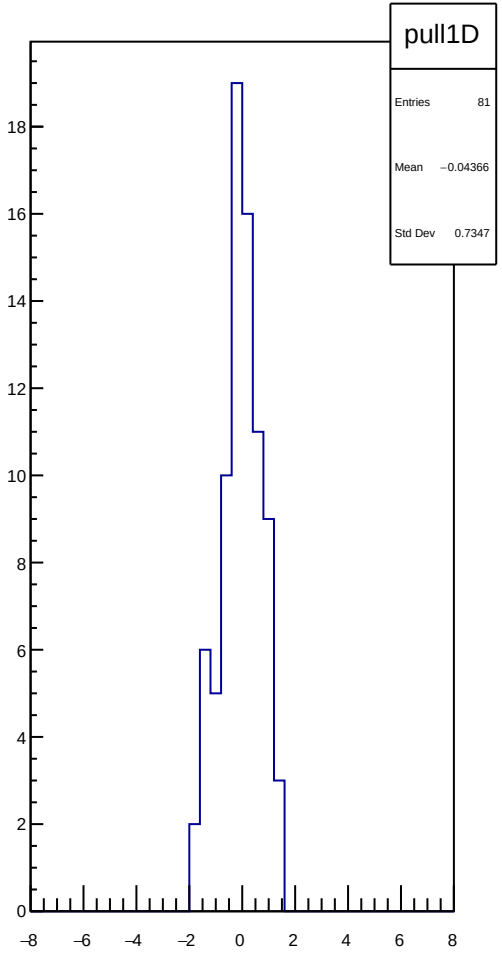

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 81.04 / 80
p0 181.1 ± 4.206
300
250
200
150
100
pull
Entries 81
Mean 189
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 81
Mean 0.09793
Std Dev 0.9954
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

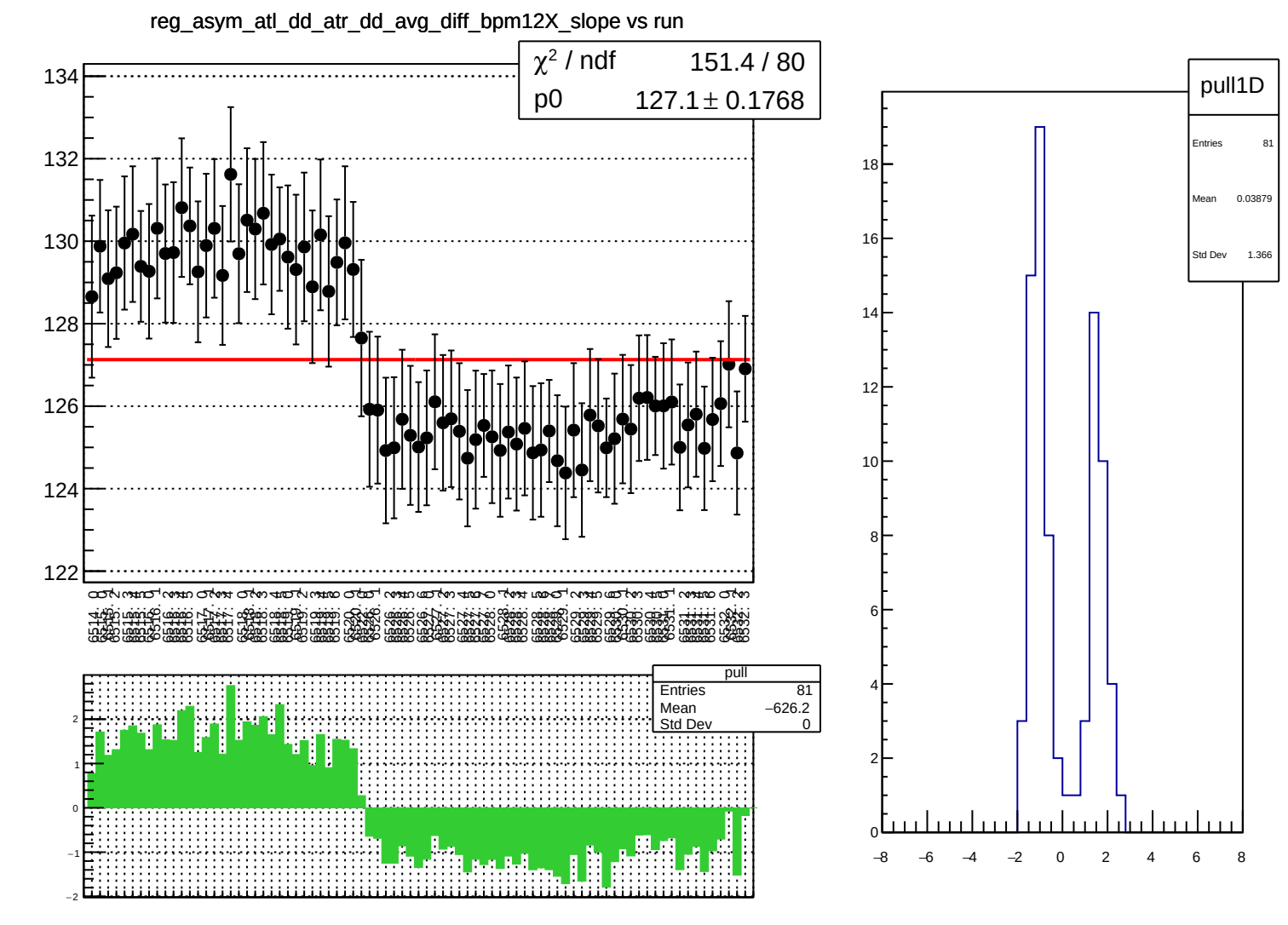

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 46.41 / 80
p0 5.948 ± 4.114
pull
Entries 81
Mean 103.7
Std Dev 0
pull1D
Entries 81
Mean 0.08402
Std Dev 0.7523

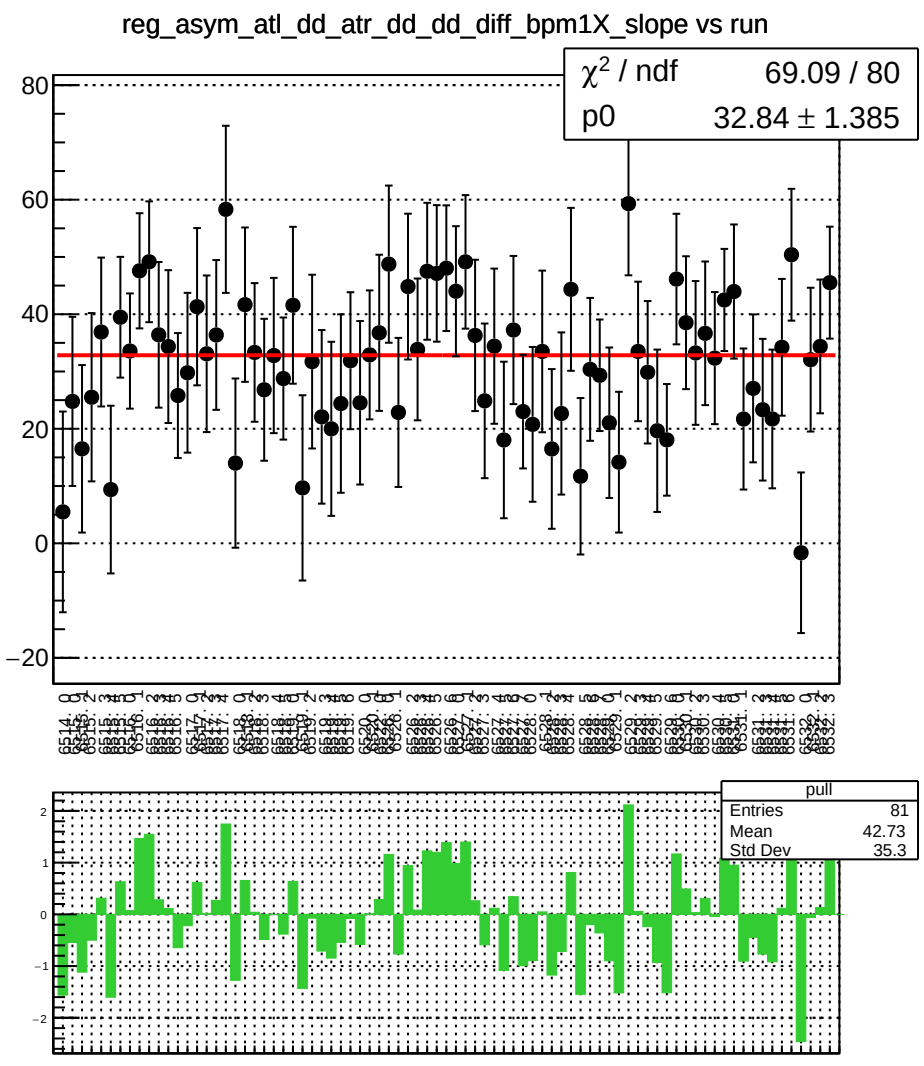

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 74.81 / 80
p0 −203.2 ± 4.388
pull
Entries 81
Mean 186.9
Std Dev 0

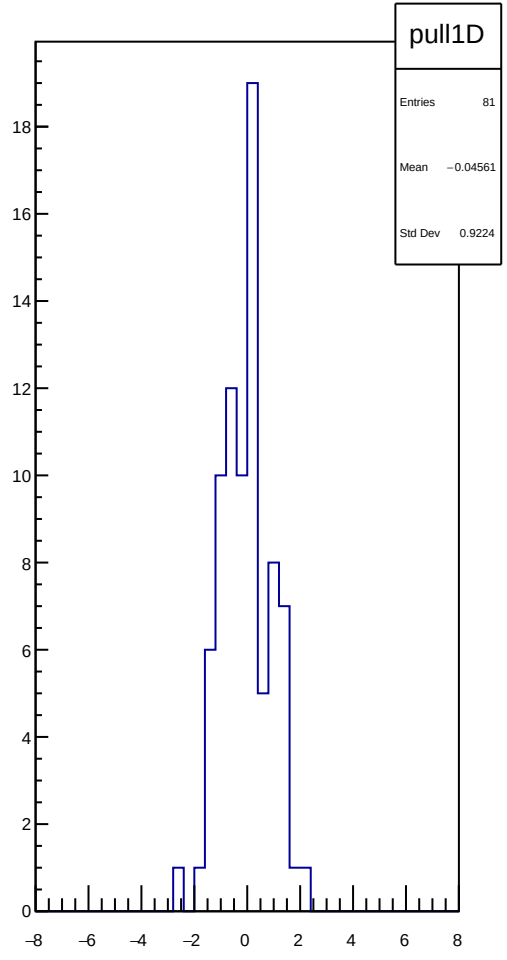

pull1D
Entries 81
Mean −0.09506
Std Dev 0.9563

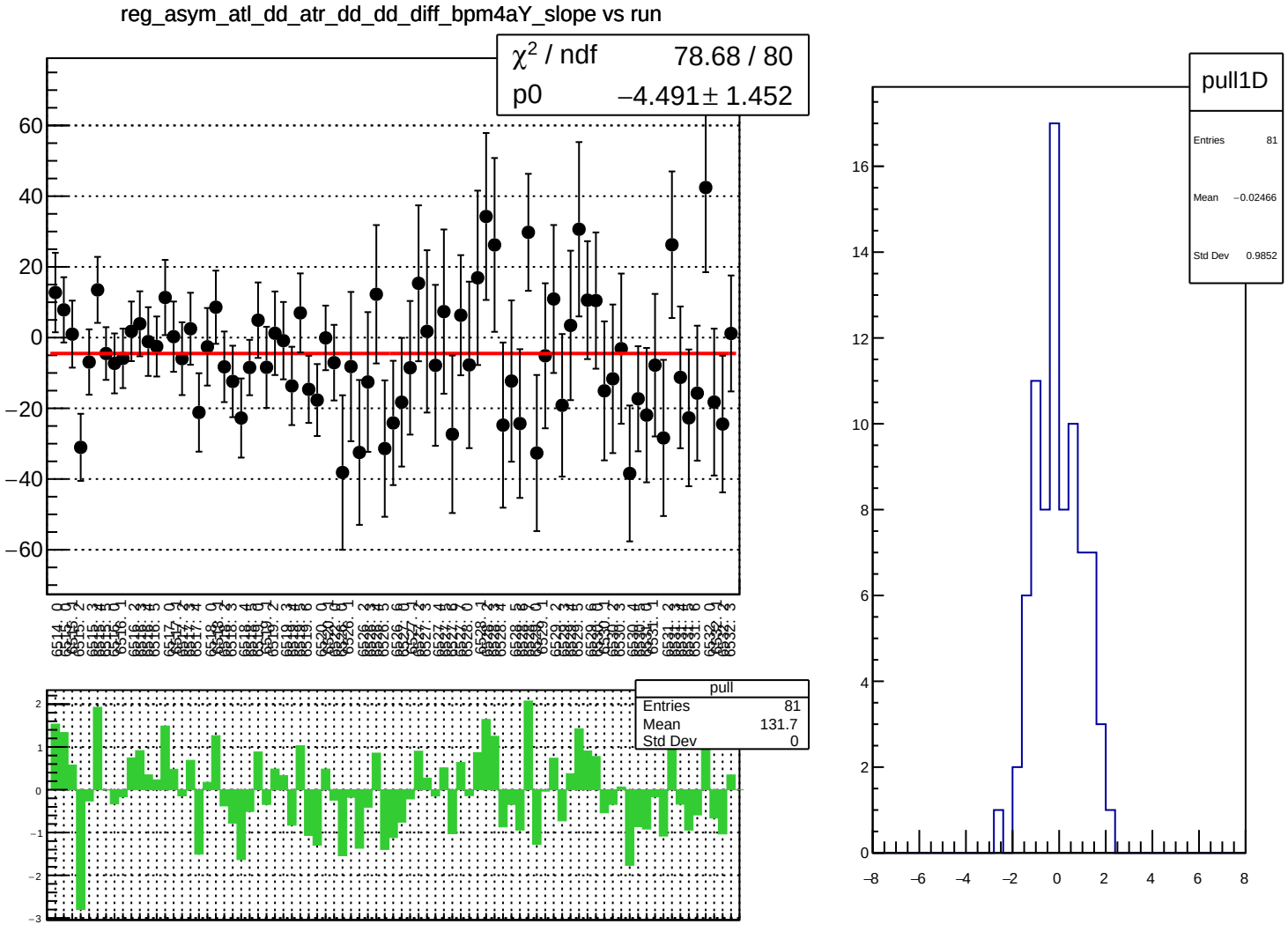

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 43.88 / 80
p0 −90.22 ± 4.727
pull
Entries 81
Mean 147.1
Std Dev 0

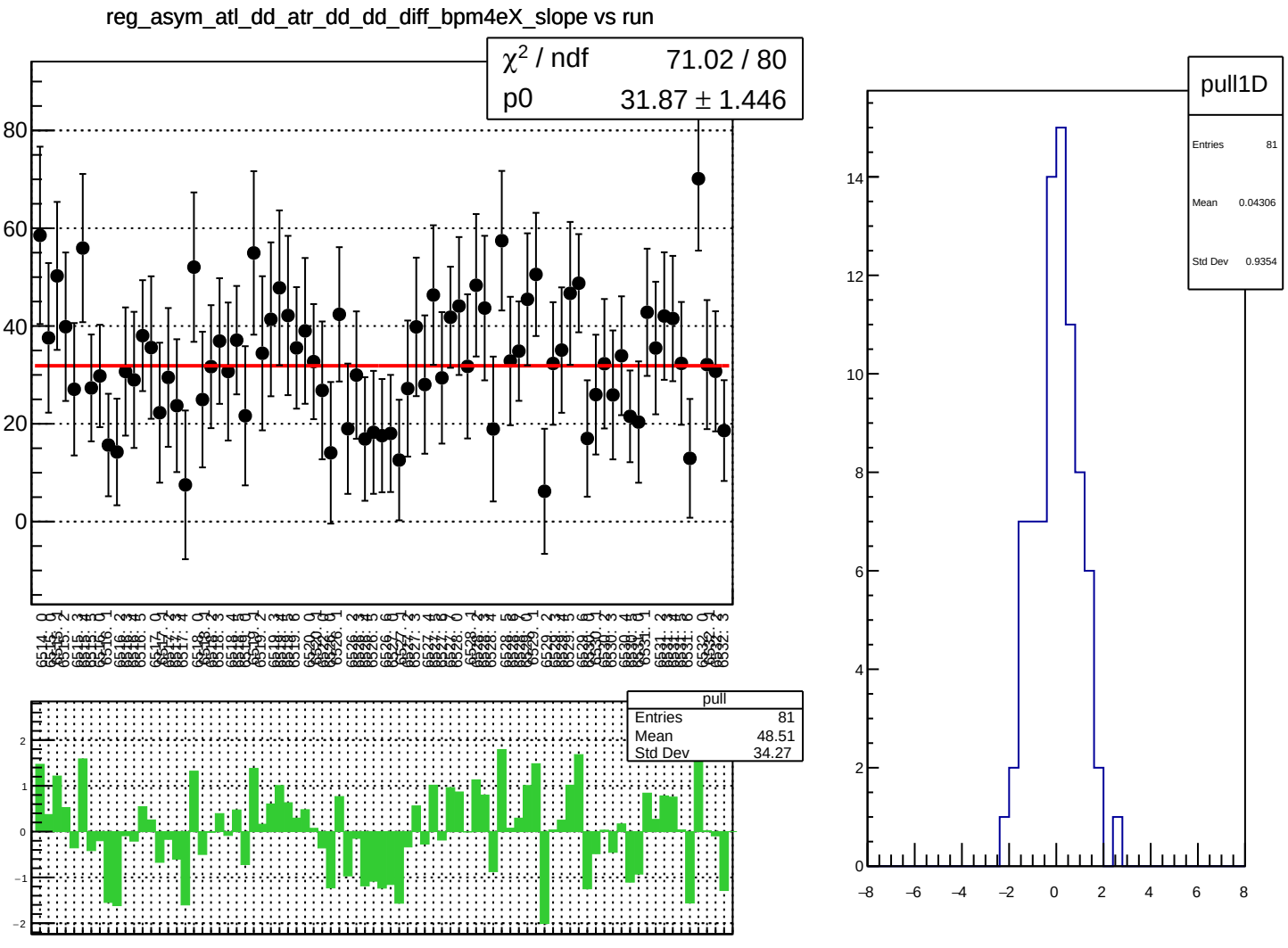

pull1D
Entries 81
Mean −0.04366
Std Dev 0.7347

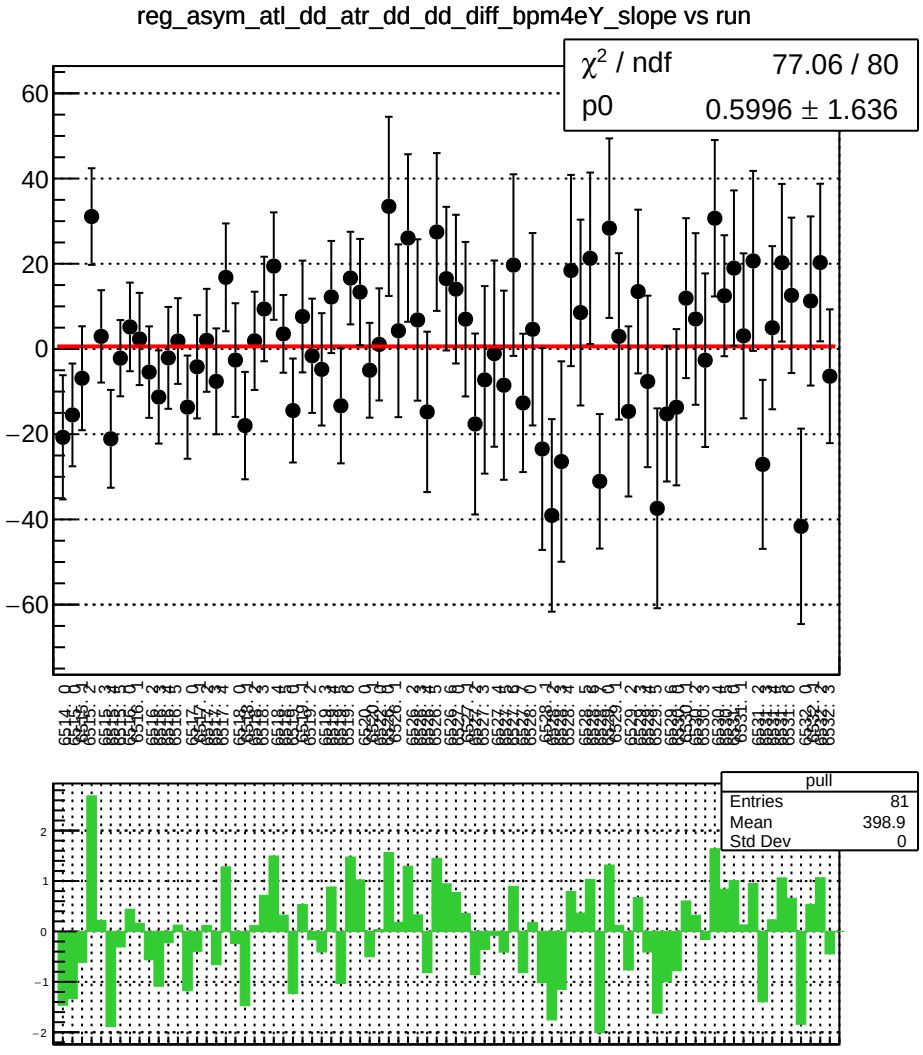

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 151.4 / 80
p0 127.1 ± 0.1768
134
132
130
128
126
124
122
pull
Entries 81
Mean −626.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 81
Mean 0.03879
Std Dev 1.366
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

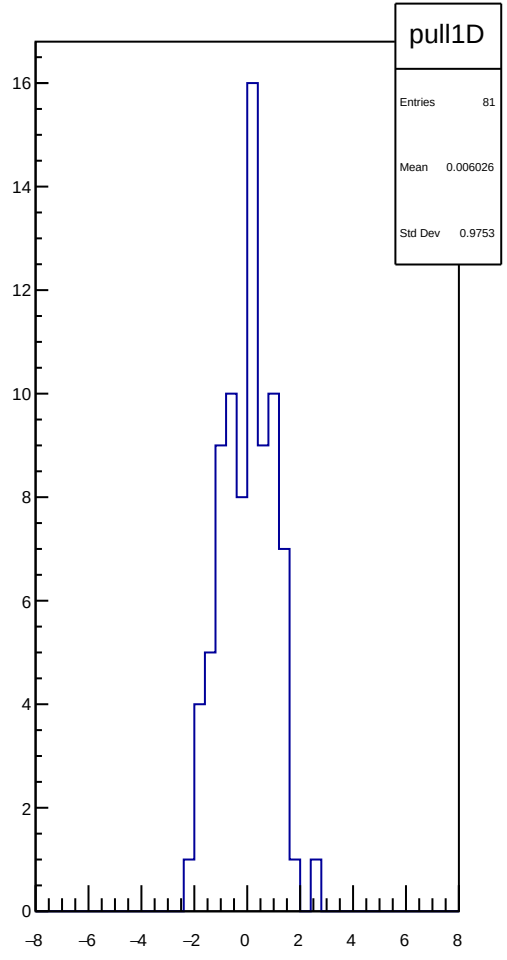

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 69.09 / 80
p0 32.84 ± 1.385
pull
Entries 81
Mean 42.73
Std Dev 35.3

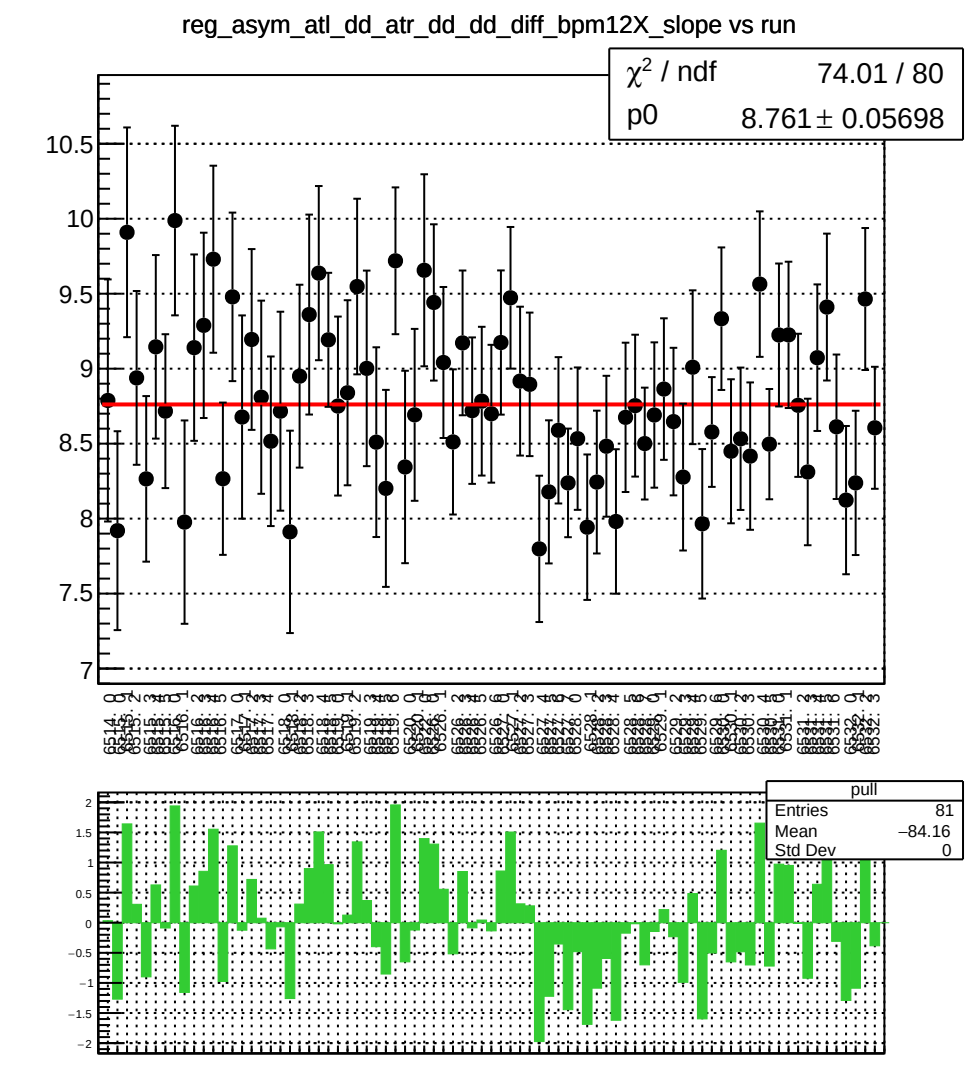

pull1D
Entries 81
Mean −0.04561
Std Dev 0.9224

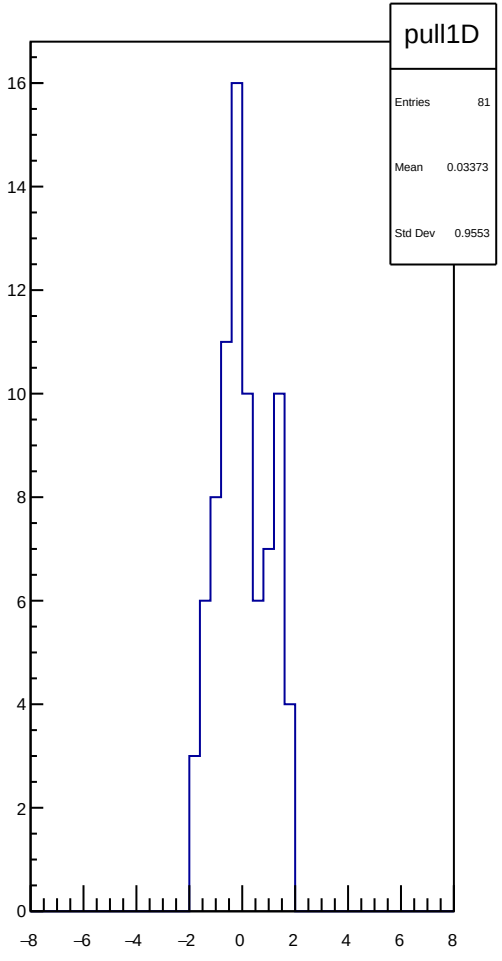

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 78.68 / 80
p0 −4.491 ± 1.452
pull
Entries 81
Mean 131.7
Std Dev 0
pull1D
Entries 81
Mean −0.02466
Std Dev 0.9852

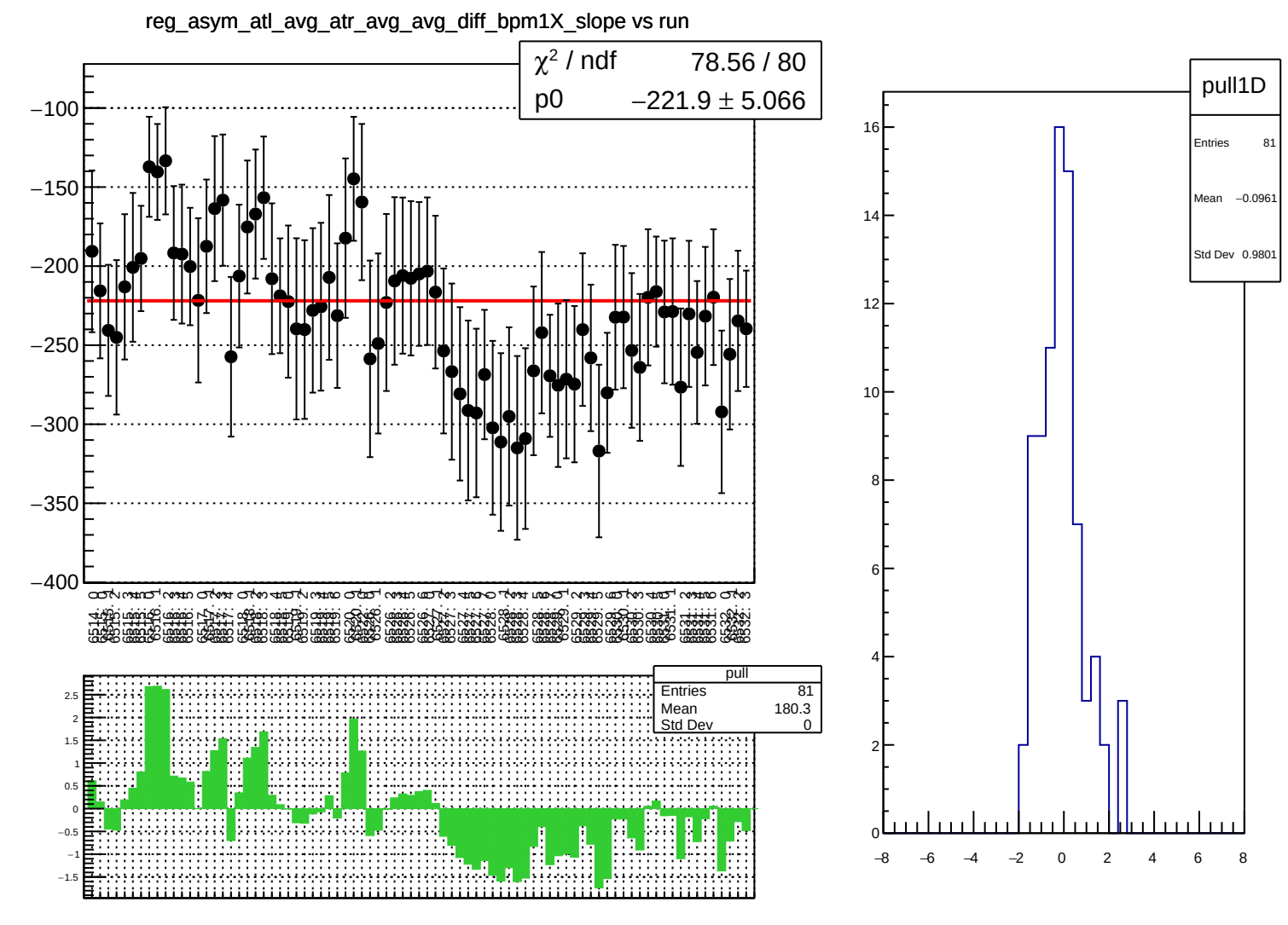

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 71.02 / 80
p0 31.87 ± 1.446
pull
Entries 81
Mean 48.51
Std Dev 34.27
pull1D
Entries 81
Mean 0.04306
Std Dev 0.9354

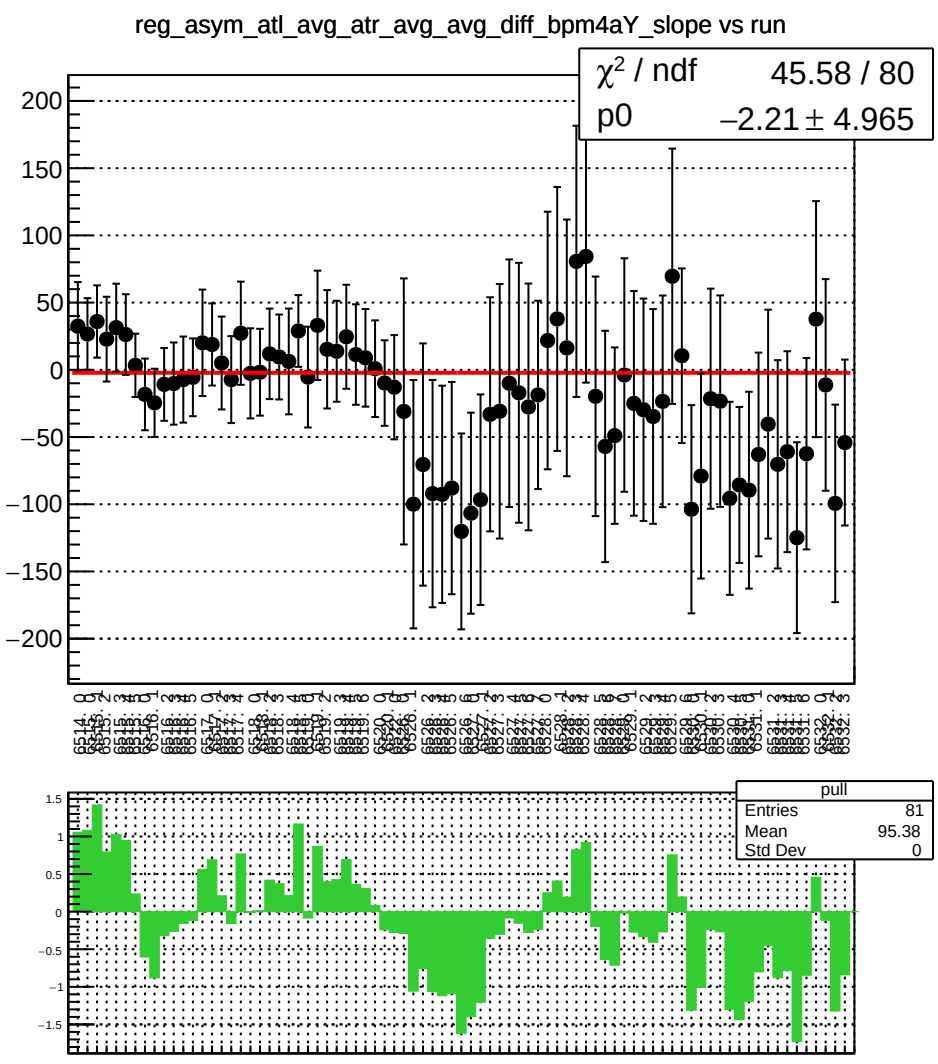

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 77.06 / 80
p0 0.5996 ± 1.636
pull
Entries 81
Mean 398.9
Std Dev 0

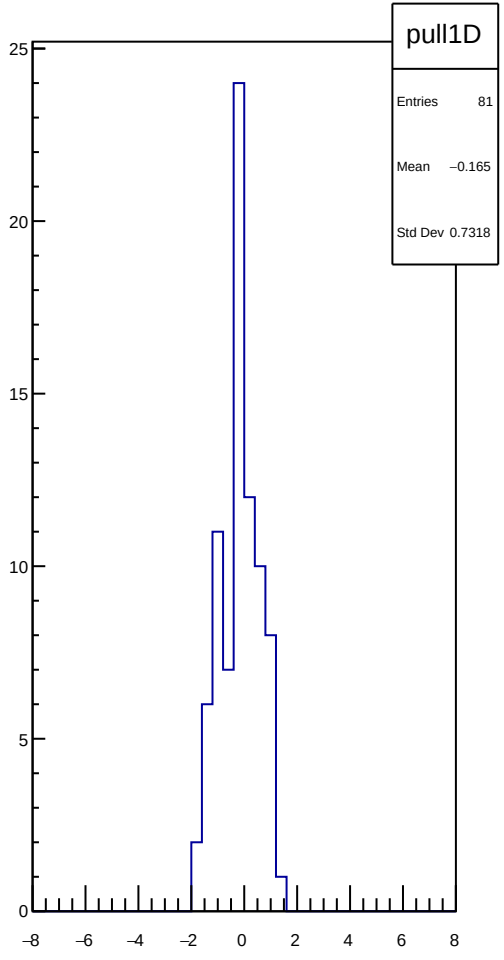

pull1D
Entries 81
Mean 0.006026
Std Dev 0.9753

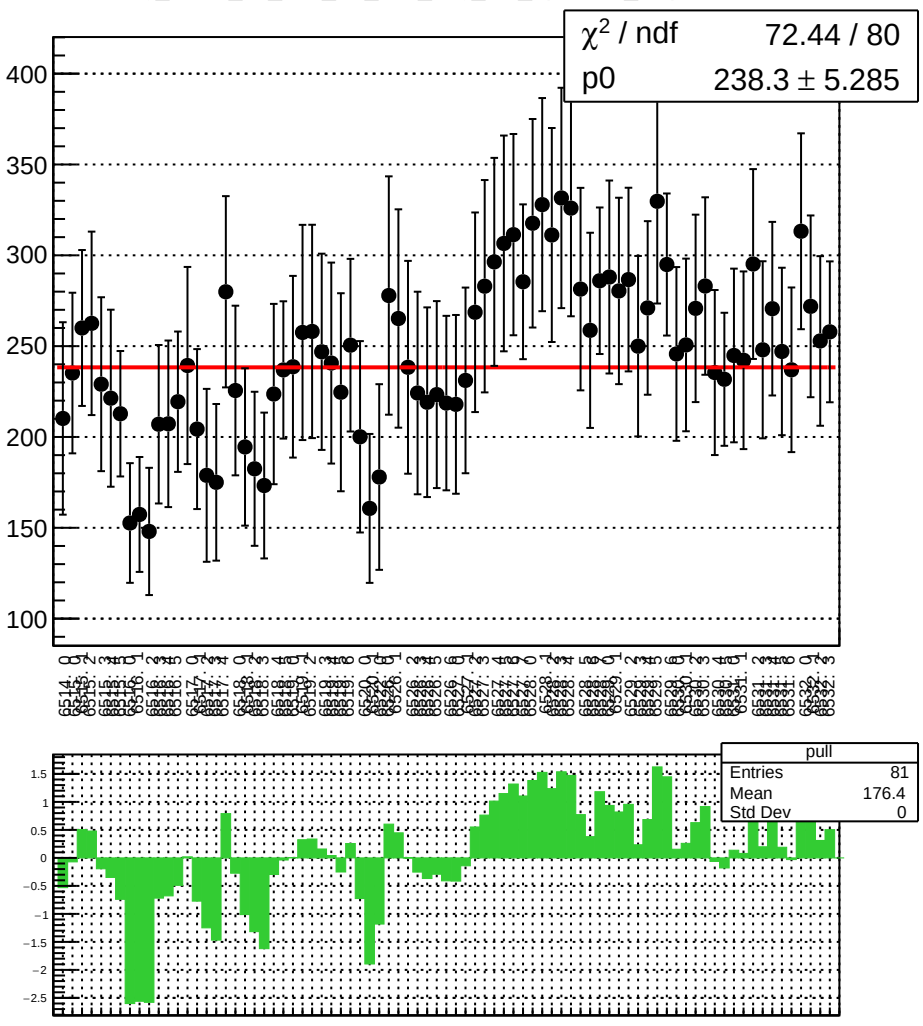

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 74.01 / 80
p0 8.761 ± 0.05698
pull
Entries 81
Mean −84.16
Std Dev 0

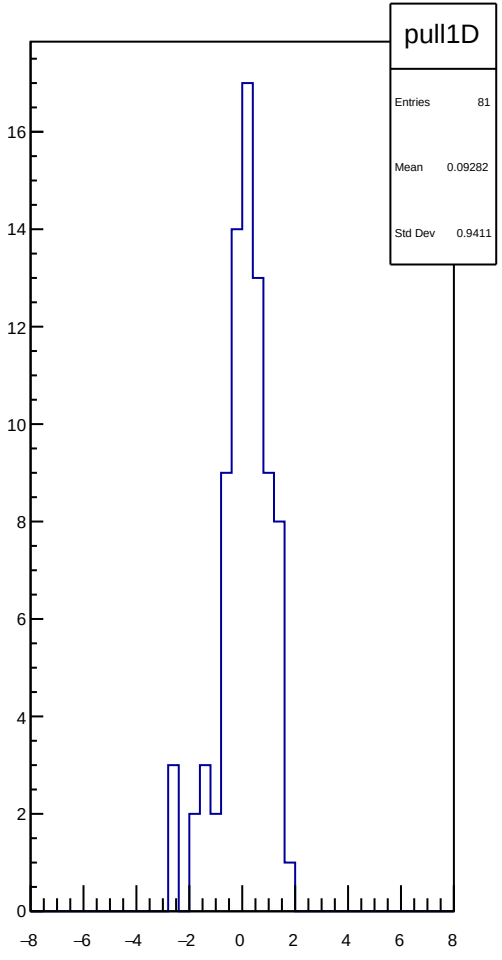

pull1D
Entries 81
Mean 0.03373
Std Dev 0.9553

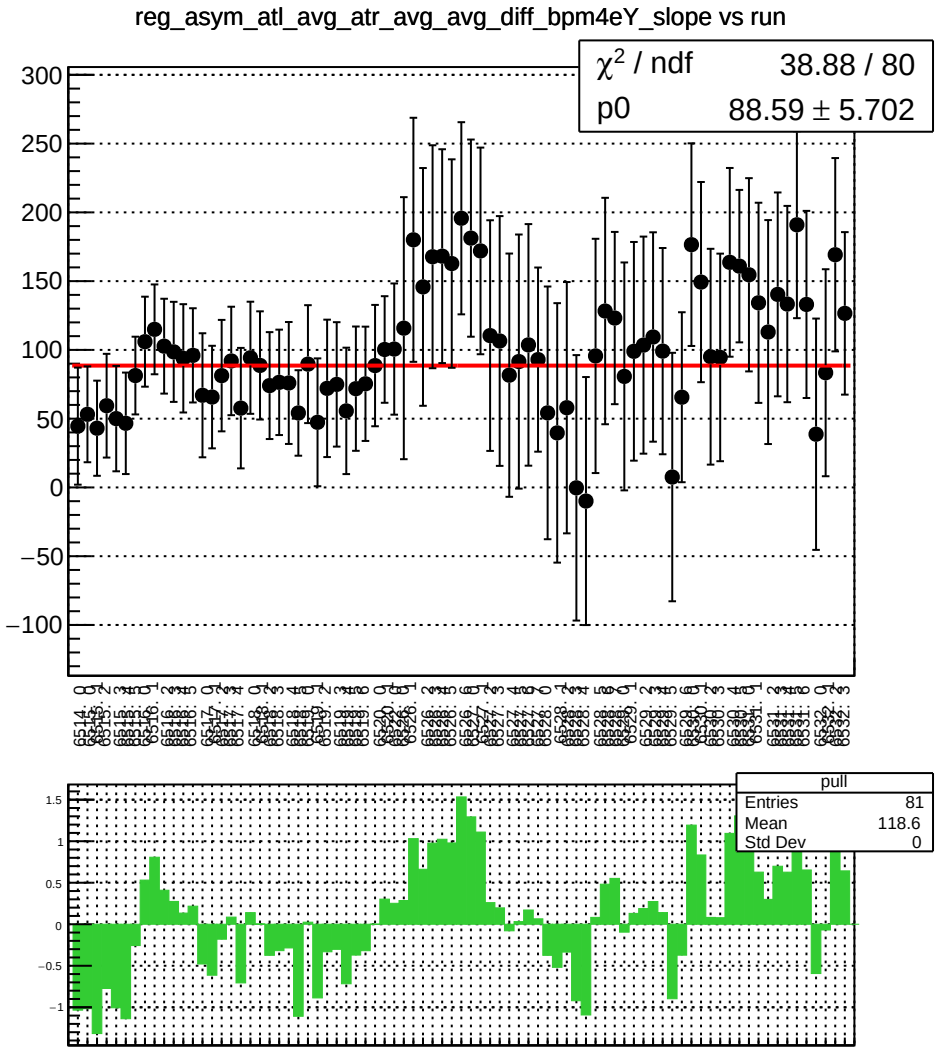

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 78.56 / 80
p0 −221.9 ± 5.066
pull
Entries 81
Mean 180.3
Std Dev 0
pull1D
Entries 81
Mean −0.0961
Std Dev 0.9801

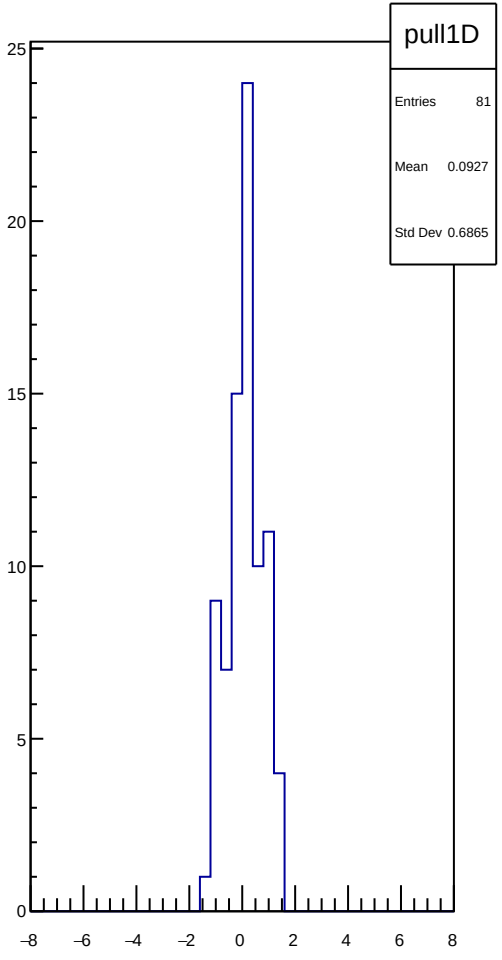

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 45.58 / 80
p0 −2.21 ± 4.965
pull
Entries 81
Mean 95.38
Std Dev 0

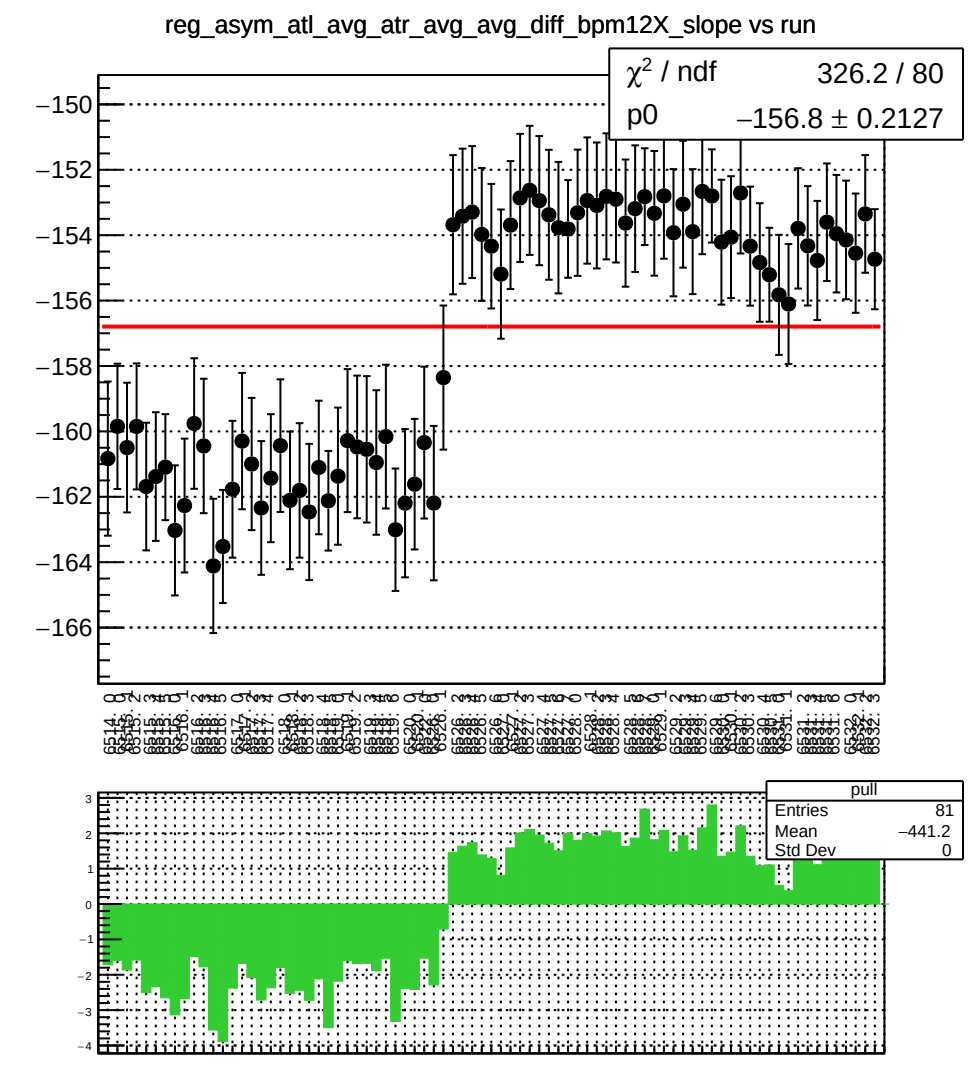

pull1D
Entries 81
Mean −0.165
Std Dev 0.7318

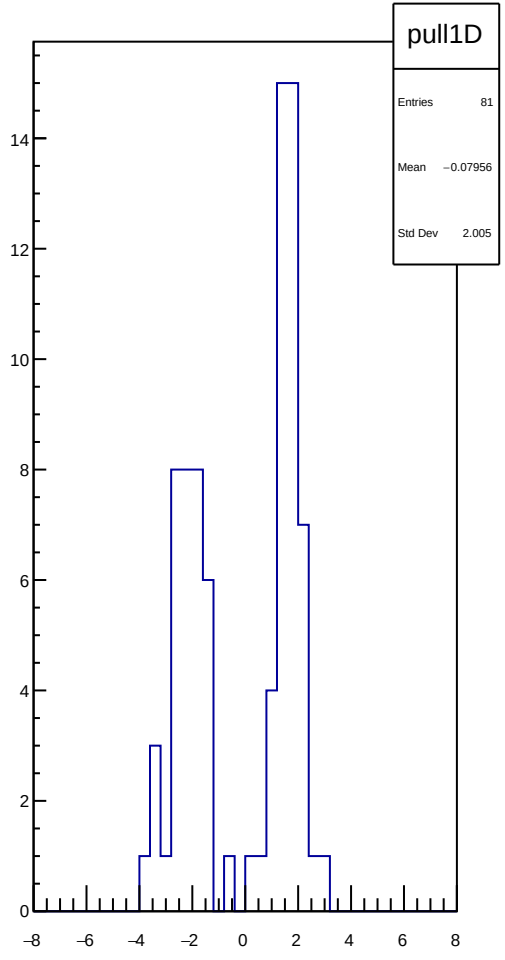

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 72.44 / 80
p0 238.3 ± 5.285
pull
Entries 81
Mean 176.4
Std Dev 0

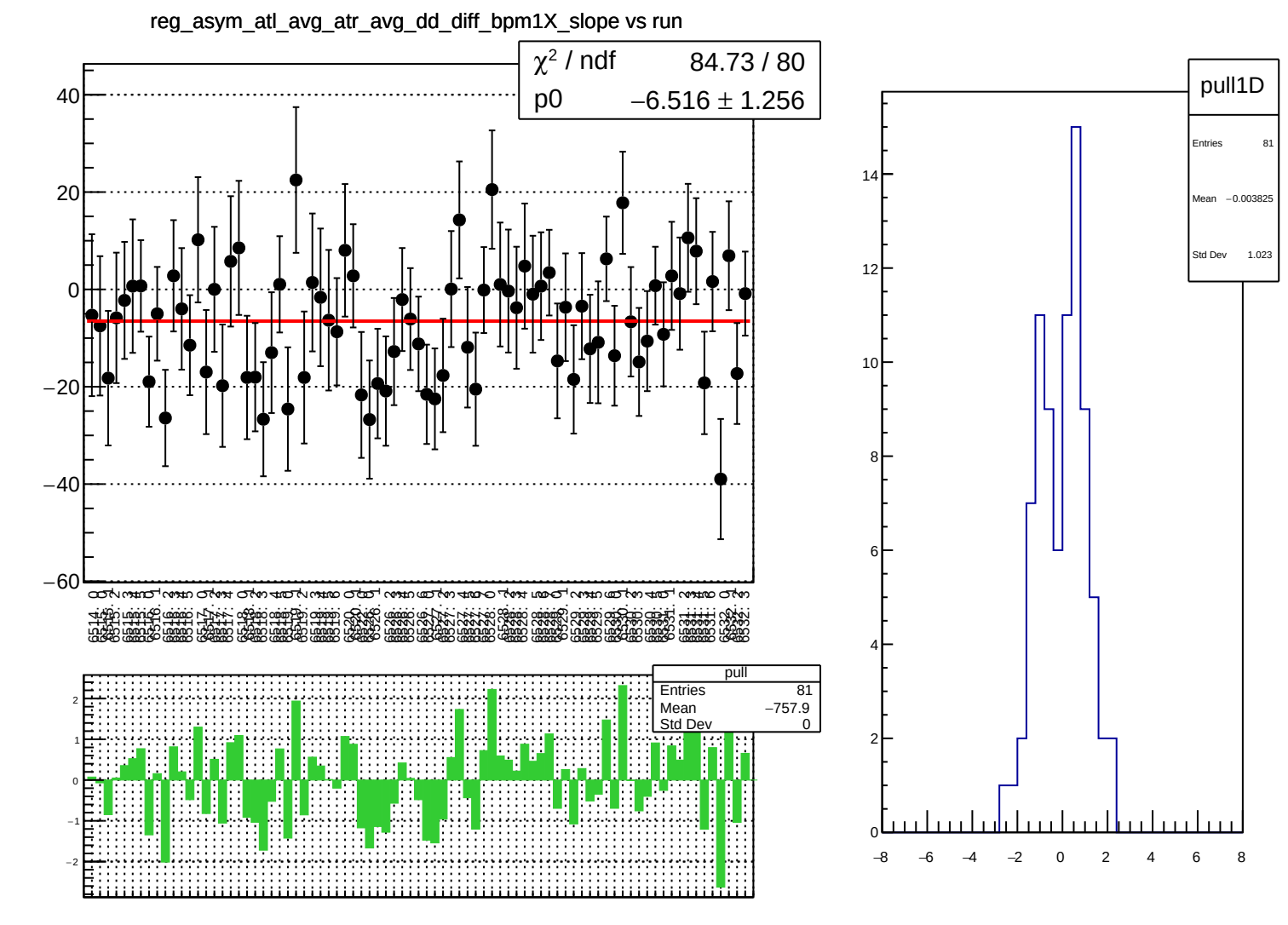

pull1D
Entries 81
Mean 0.09282
Std Dev 0.9411

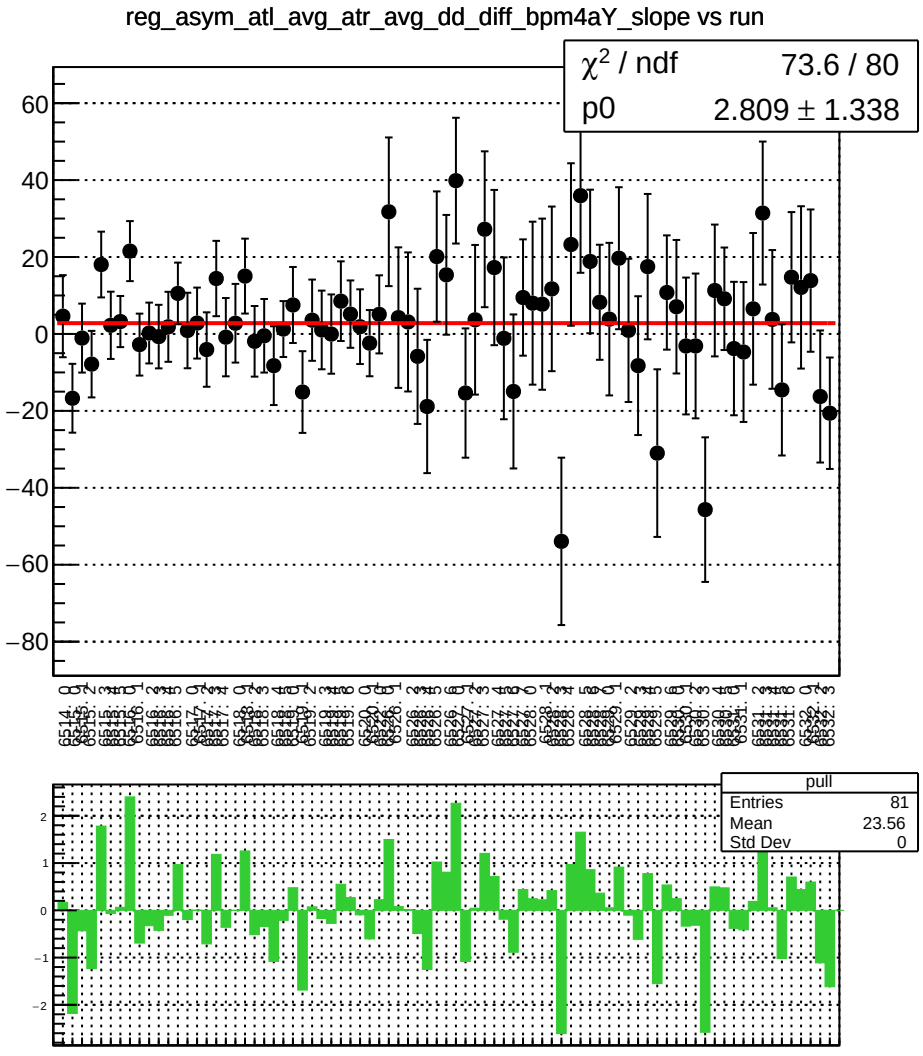

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 38.88 / 80
p0 88.59 ± 5.702
pull
Entries 81
Mean 118.6
Std Dev 0

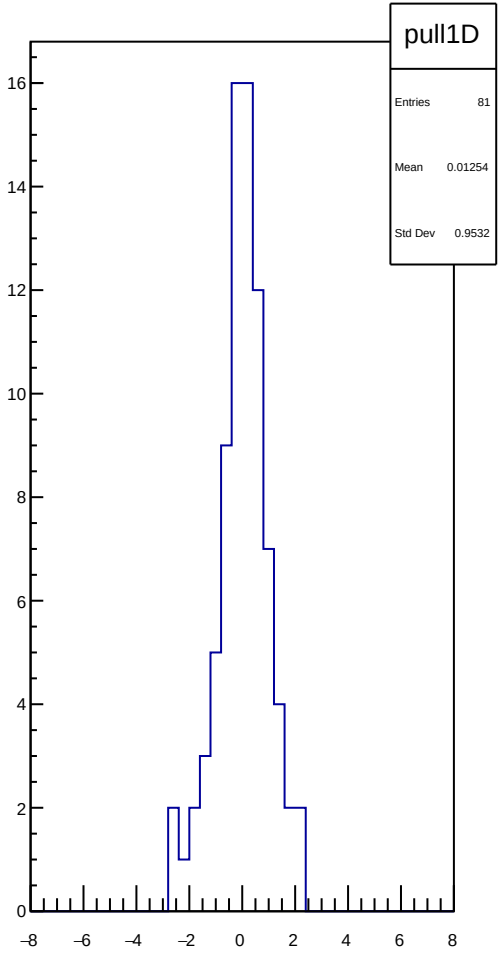

pull1D
Entries 81
Mean 0.0927
Std Dev 0.6865

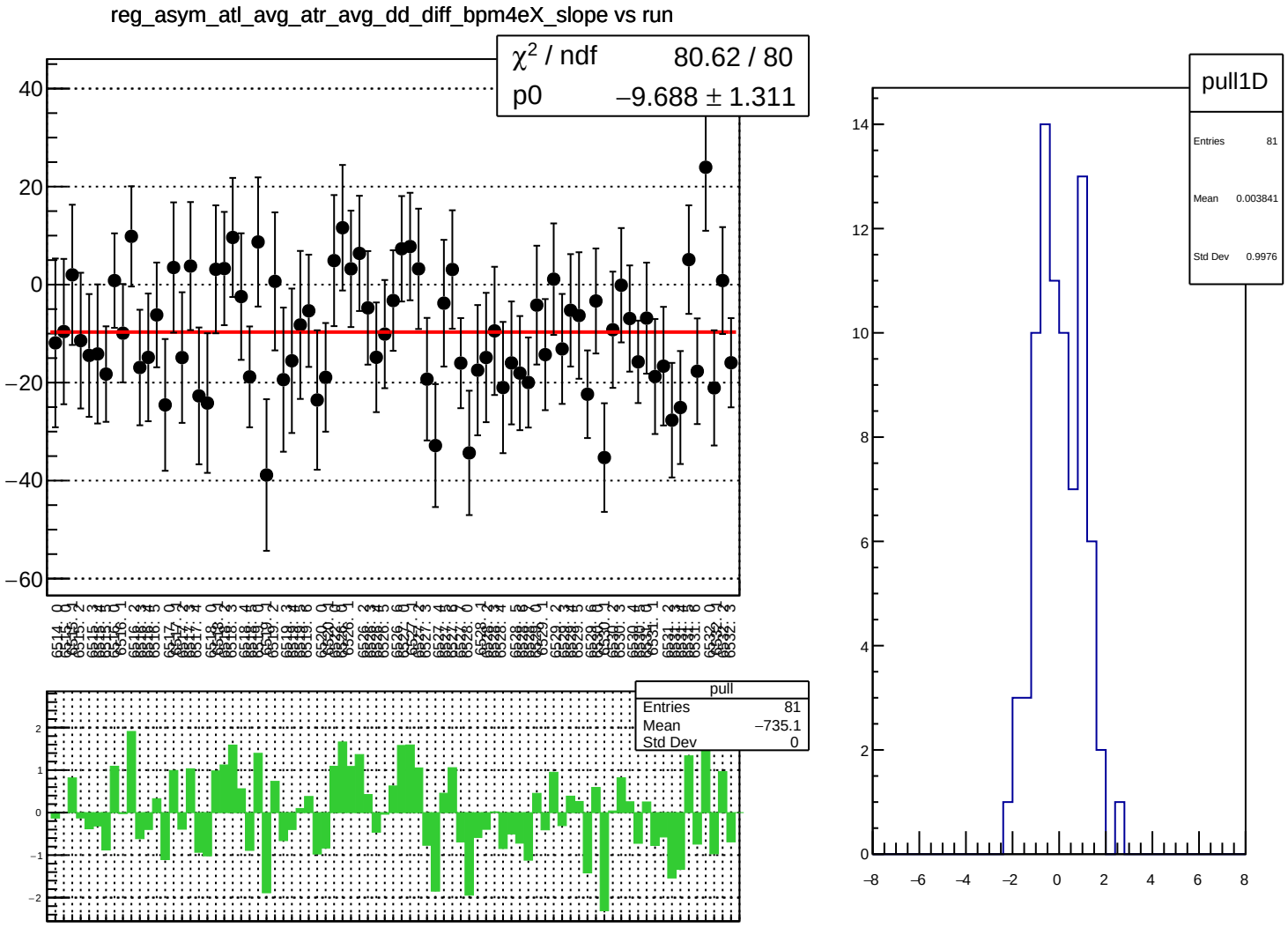

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 326.2 / 80
p0 −156.8 ± 0.2127
pull
Entries 81
Mean −441.2
Std Dev 0

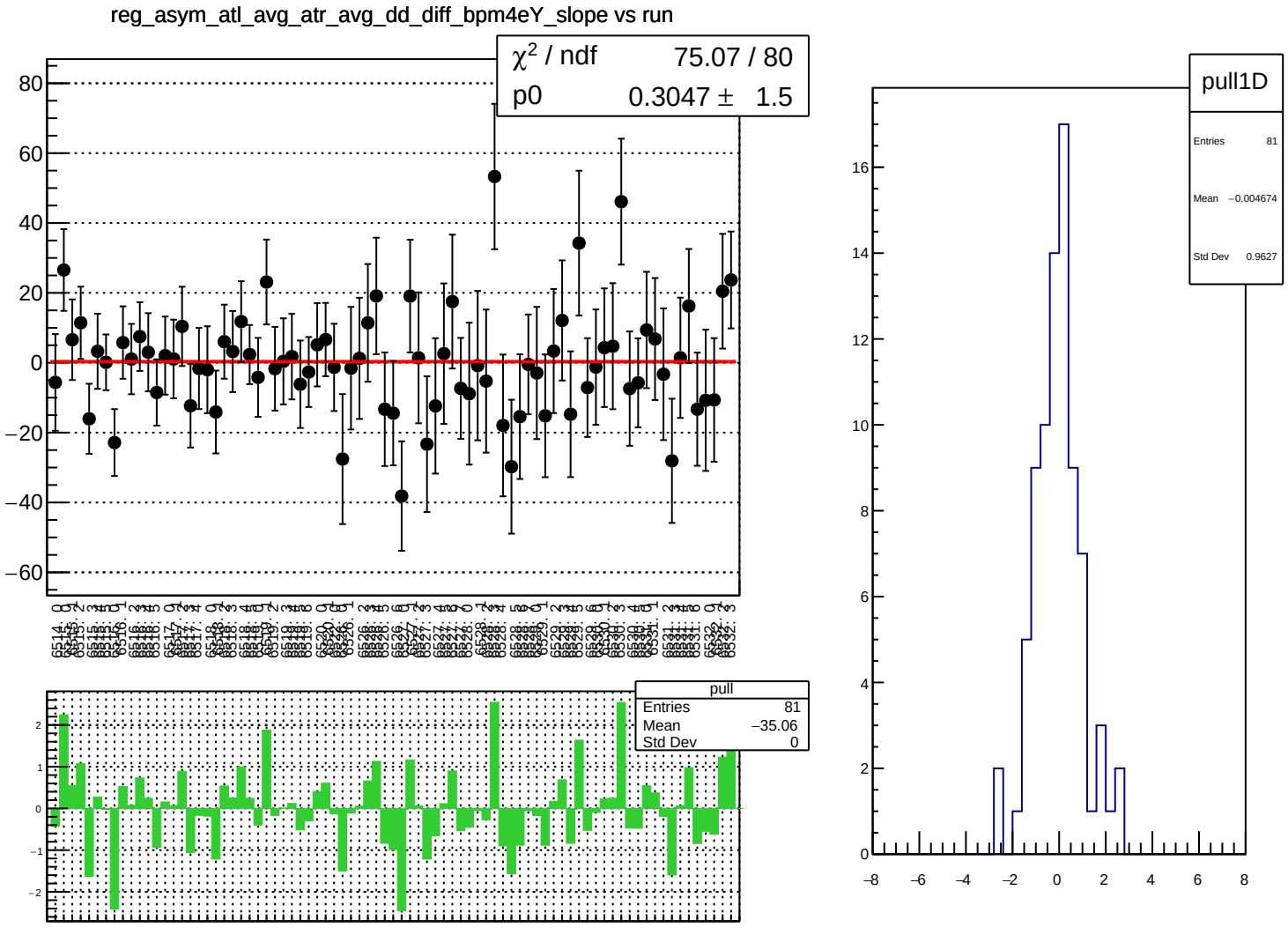

pull1D
Entries 81
Mean −0.07956
Std Dev 2.005

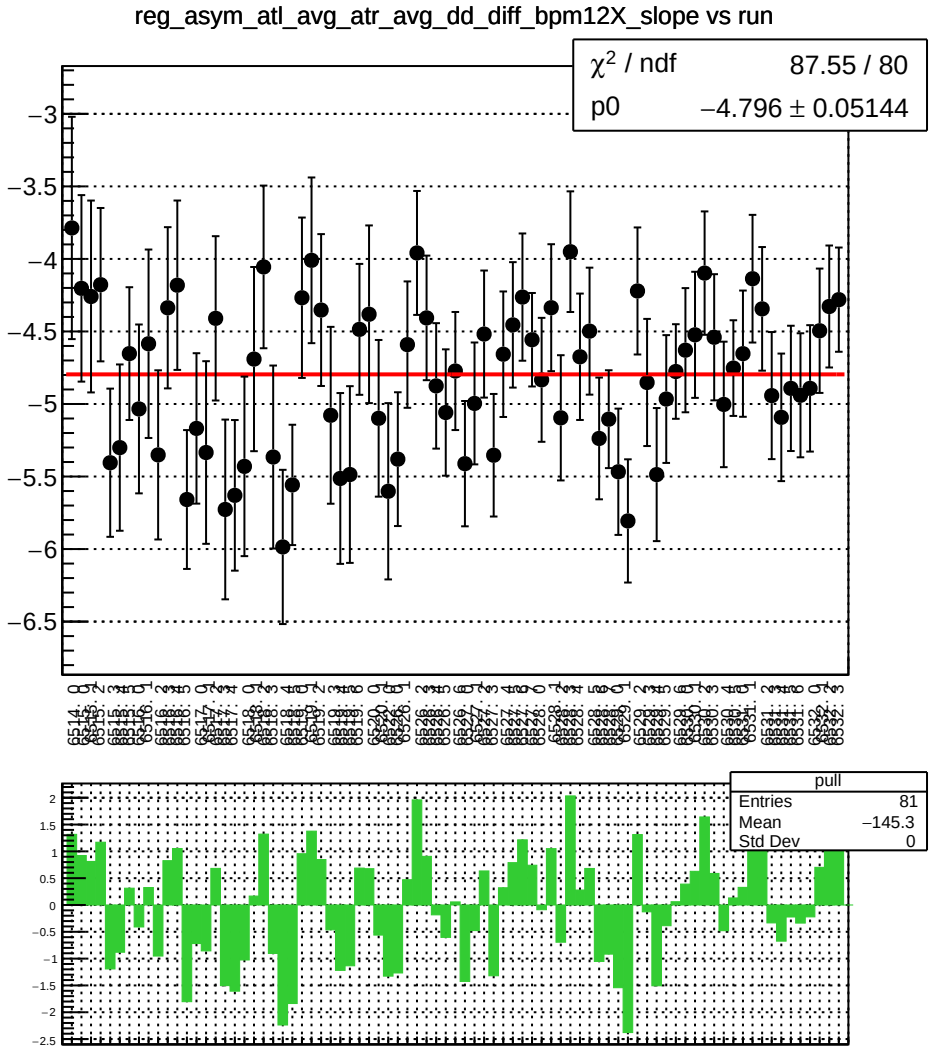

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 84.73 / 80
p0 −6.516 ± 1.256
pull
Entries 81
Mean −757.9
Std Dev 0
pull1D
Entries 81
Mean −0.003825
Std Dev 1.023

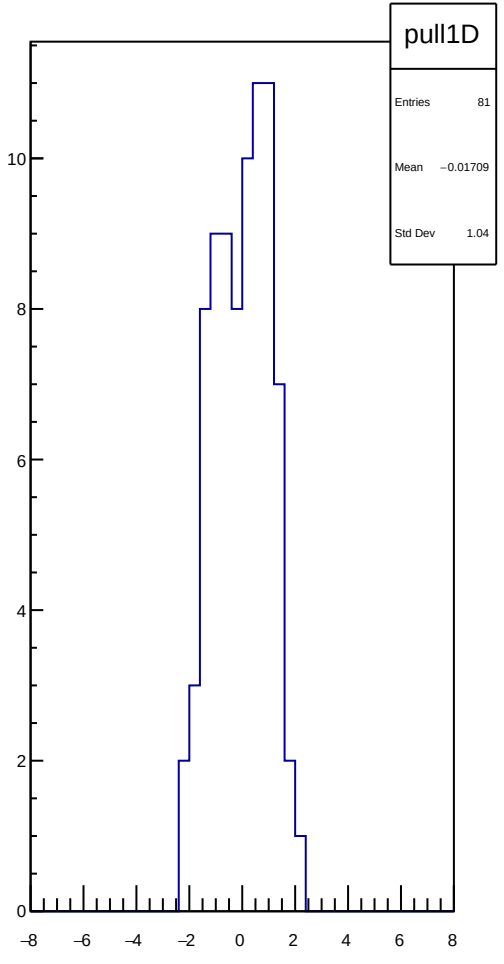

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 73.6 / 80
p0 2.809 ± 1.338
pull
Entries 81
Mean 23.56
Std Dev 0

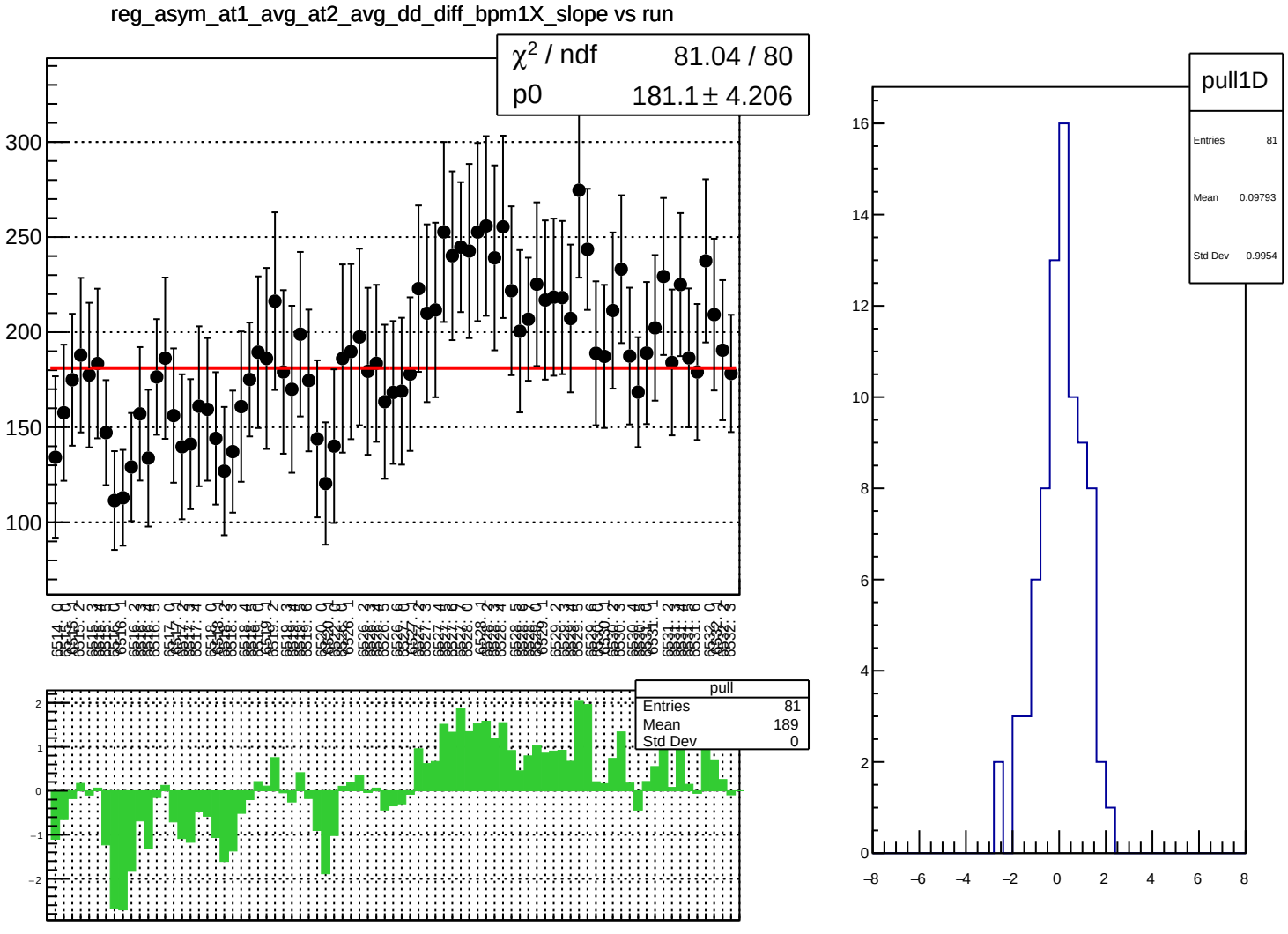

pull1D
Entries 81
Mean 0.01254
Std Dev 0.9532

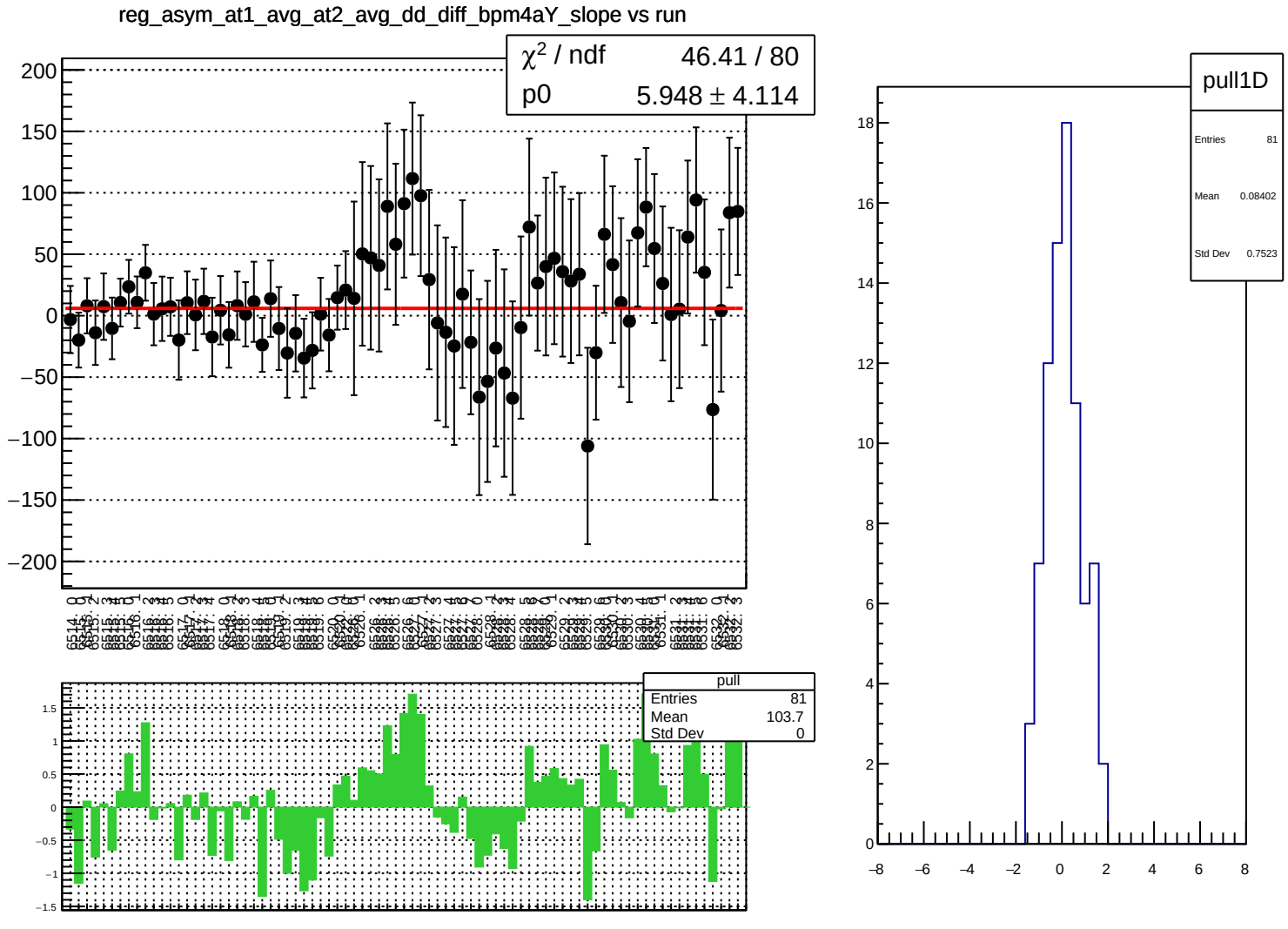

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 80.62 / 80
p0 −9.688 ± 1.311
pull
Entries 81
Mean −735.1
Std Dev 0
pull1D
Entries 81
Mean 0.003841
Std Dev 0.9976

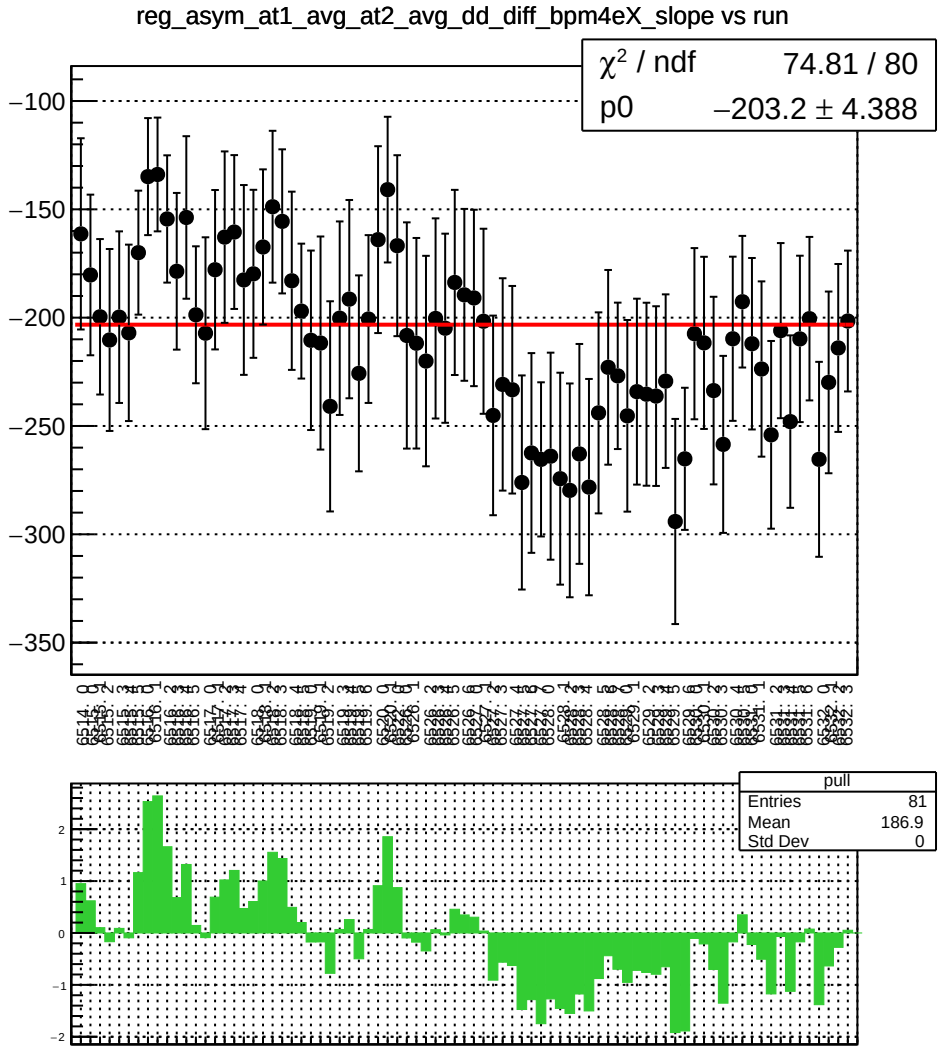

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 75.07 / 80
p0 0.3047 ± 1.5
pull
Entries 81
Mean −35.06
Std Dev 0
pull1D
Entries 81
Mean −0.004674
Std Dev 0.9627

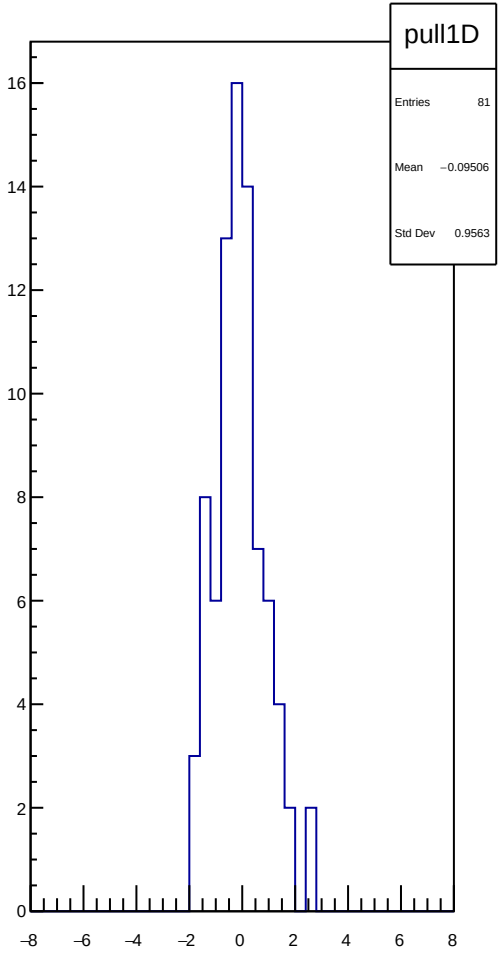

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 87.55 / 80
p0 −4.796 ± 0.05144
pull
Entries 81
Mean −145.3
Std Dev 0

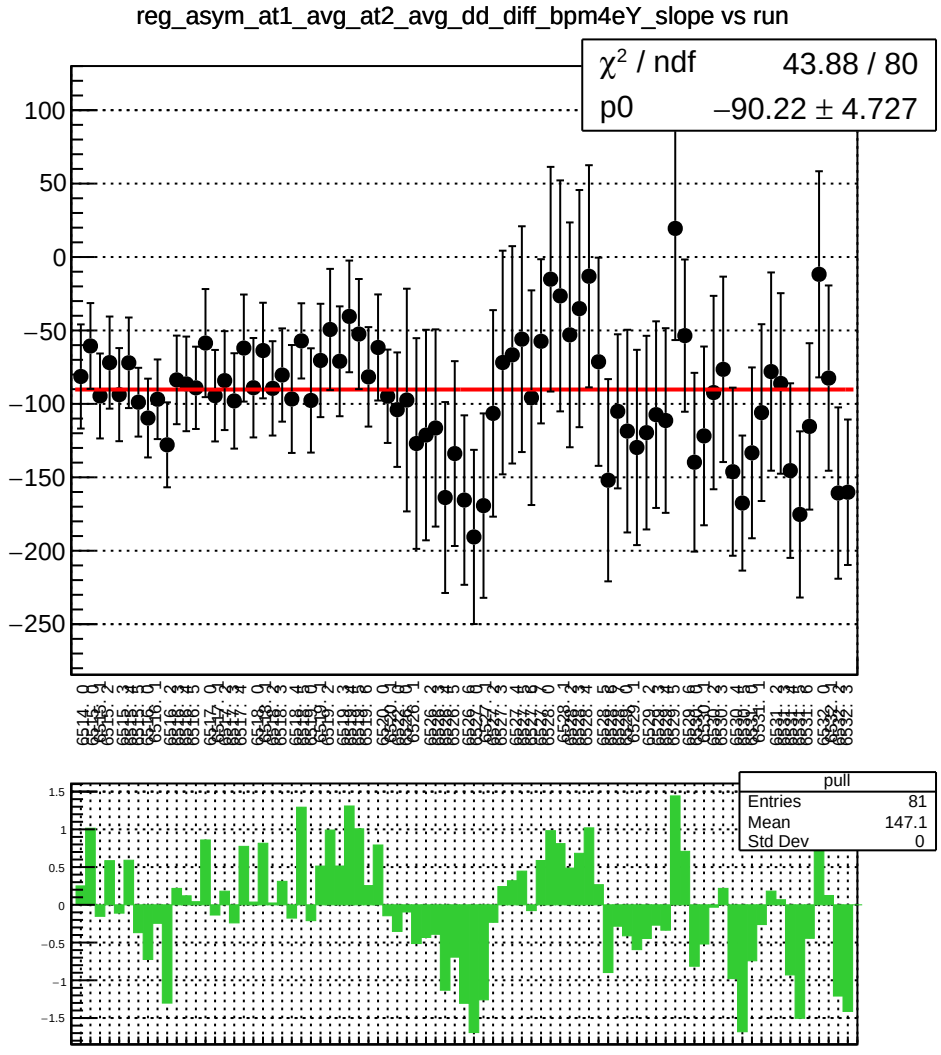

pull1D
Entries 81
Mean −0.01709
Std Dev 1.04

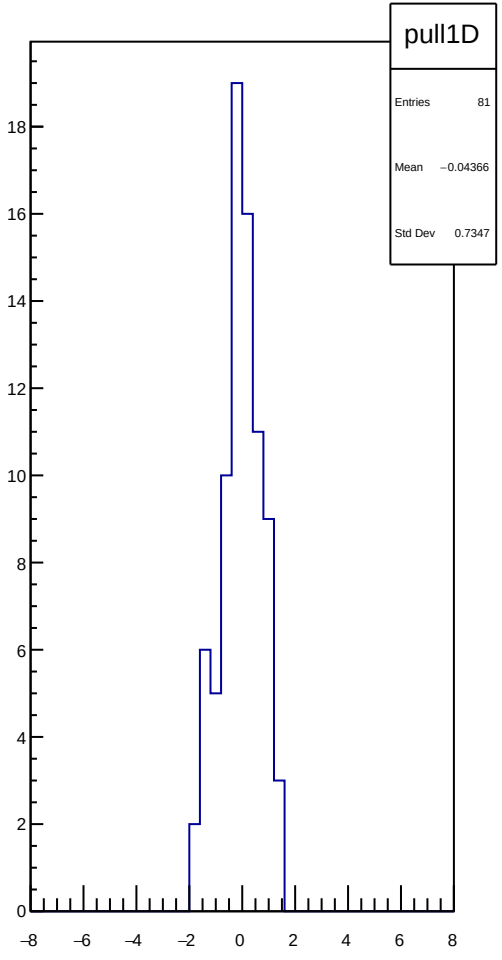

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 81.04 / 80
p0 181.1 ± 4.206
300
250
200
150
100
pull
Entries 81
Mean 189
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 81
Mean 0.09793
Std Dev 0.9954
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

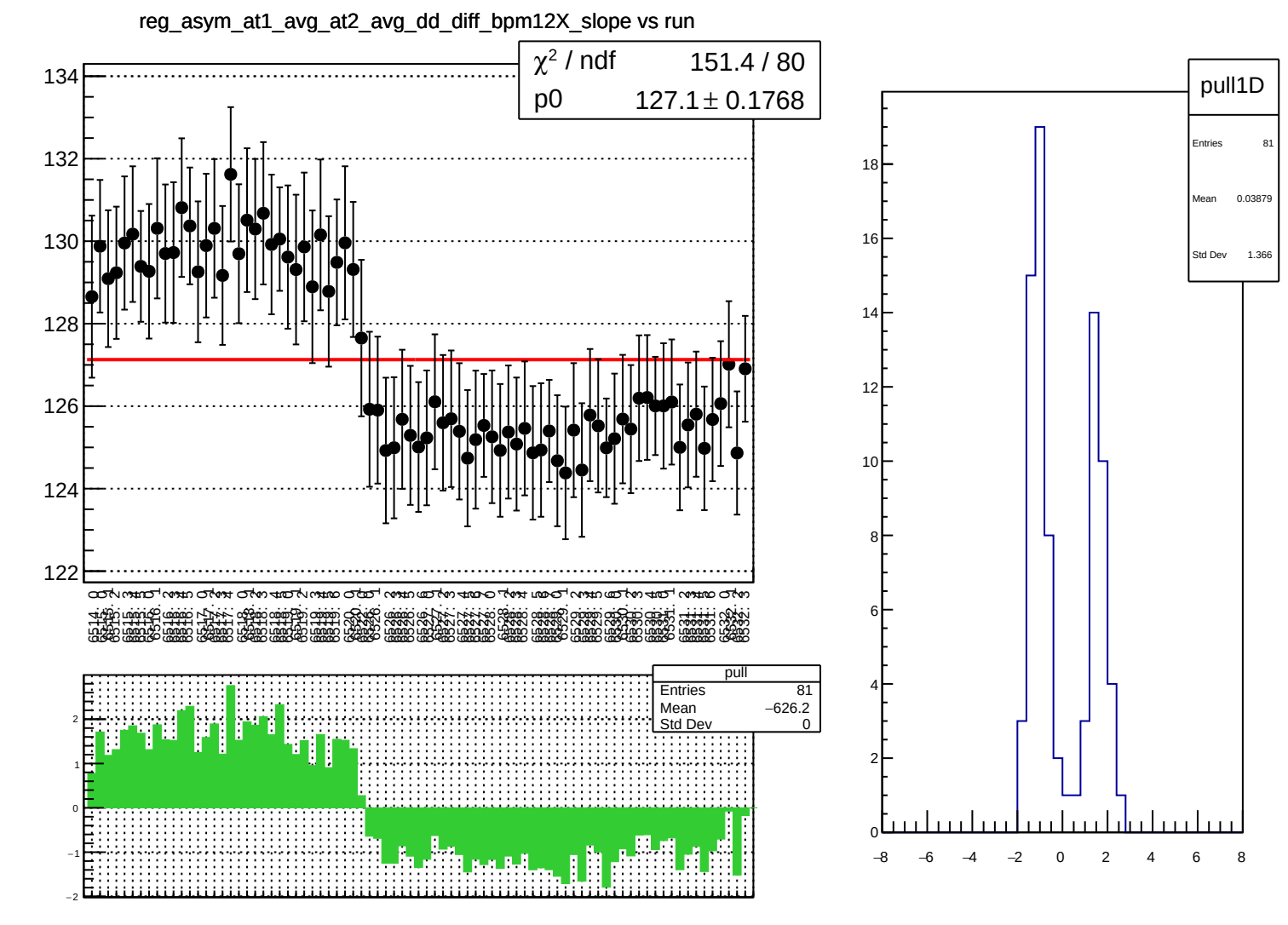

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 46.41 / 80
p0 5.948 ± 4.114
pull
Entries 81
Mean 103.7
Std Dev 0
pull1D
Entries 81
Mean 0.08402
Std Dev 0.7523

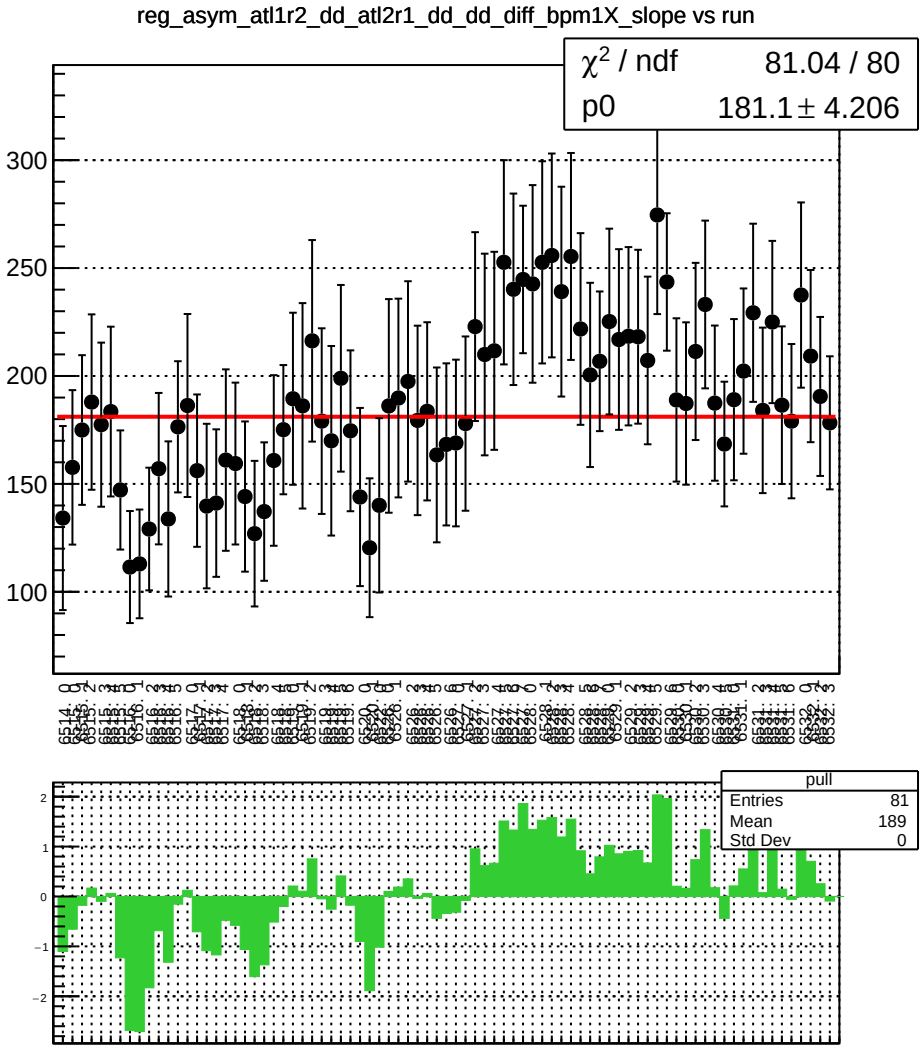

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 74.81 / 80
p0 −203.2 ± 4.388
pull
Entries 81
Mean 186.9
Std Dev 0

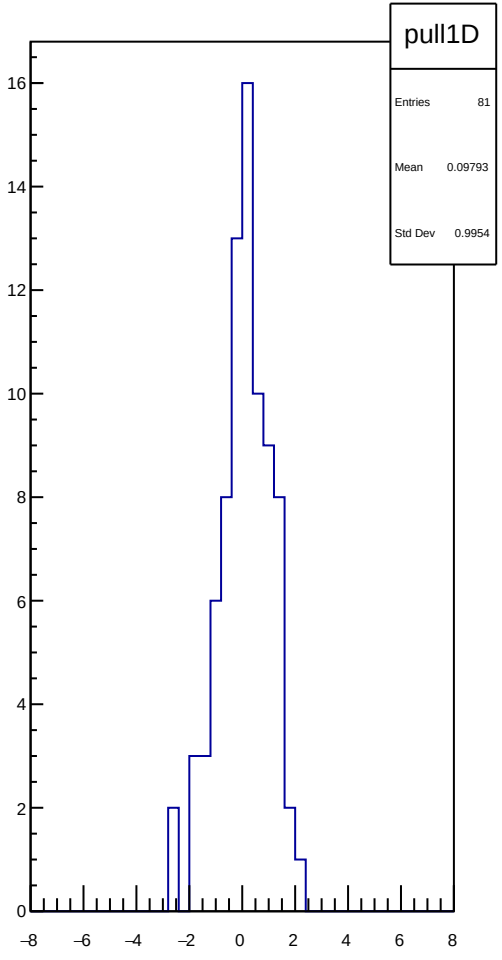

pull1D
Entries 81
Mean −0.09506
Std Dev 0.9563

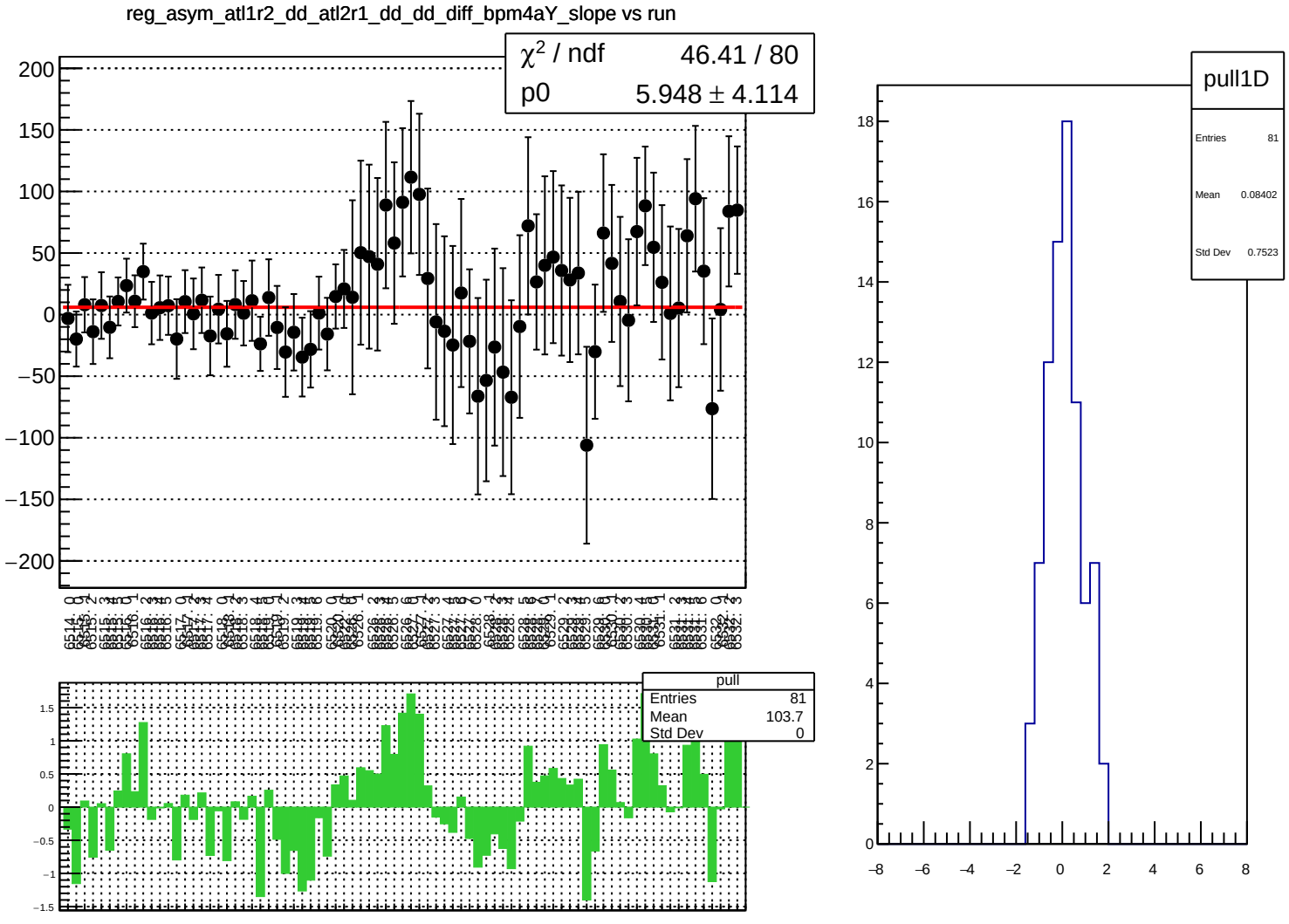

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 43.88 / 80
p0 −90.22 ± 4.727
pull
Entries 81
Mean 147.1
Std Dev 0

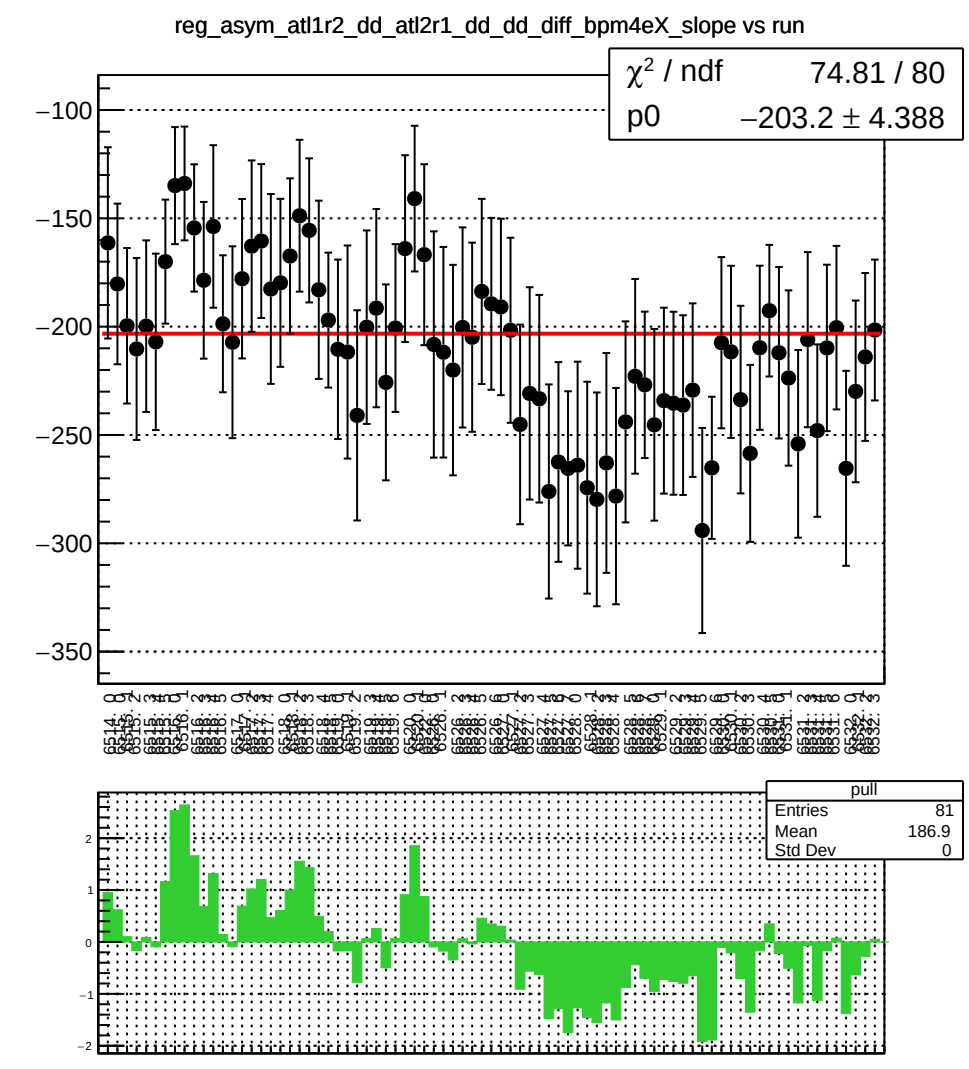

pull1D
Entries 81
Mean −0.04366
Std Dev 0.7347

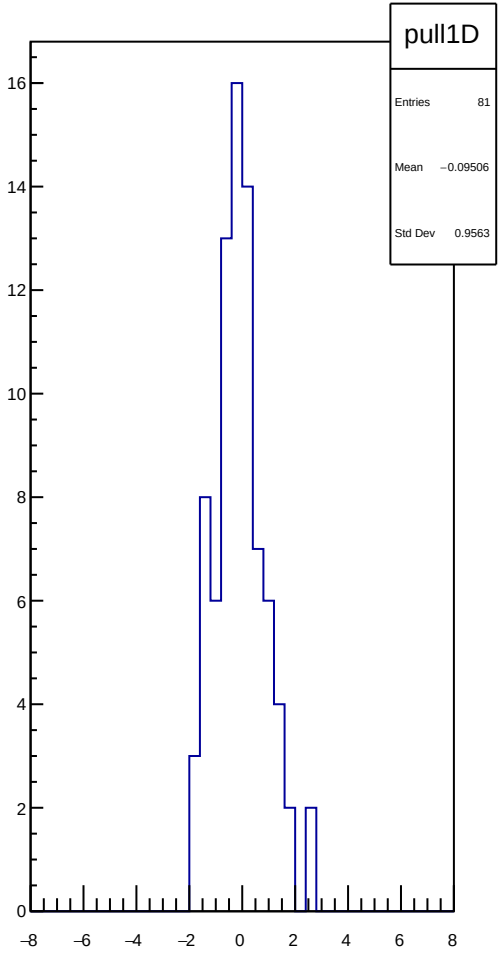

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 151.4 / 80
p0 127.1 ± 0.1768
134
132
130
128
126
124
122
pull
Entries 81
Mean −626.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 81
Mean 0.03879
Std Dev 1.366
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

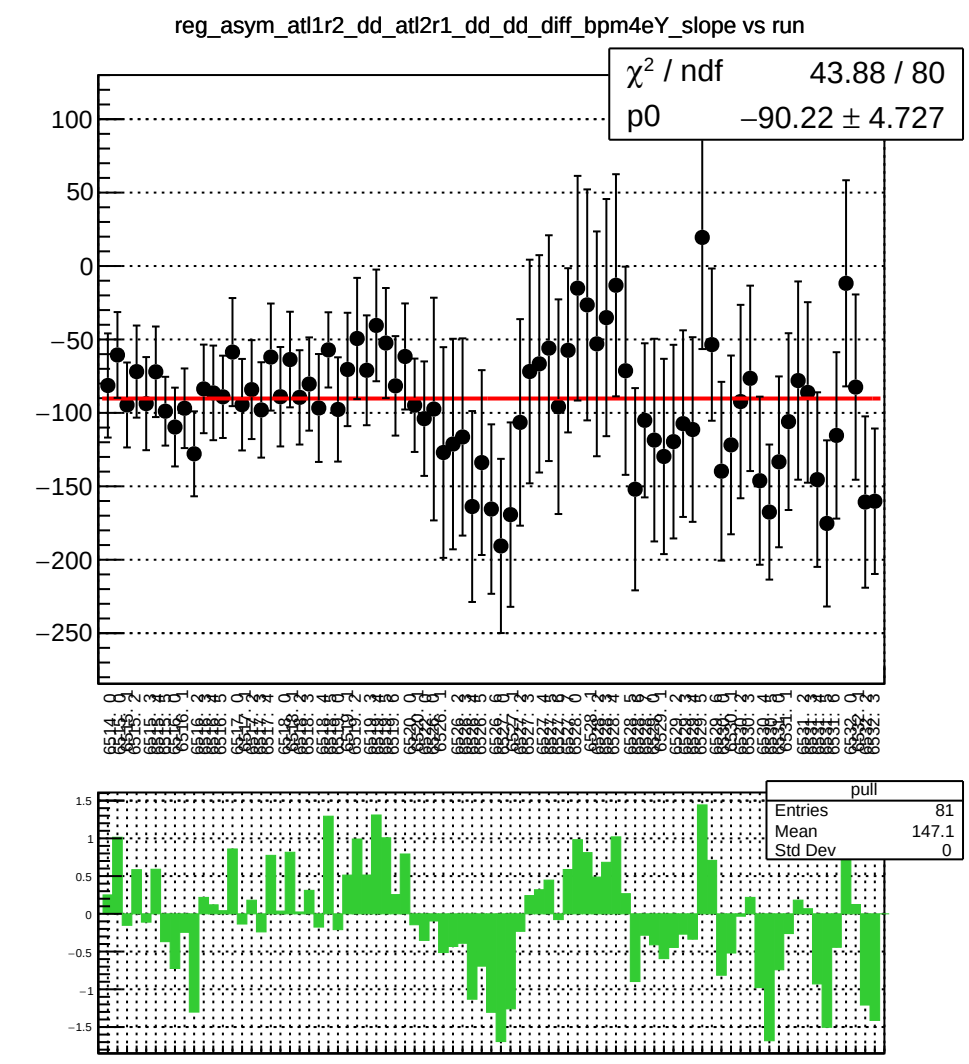

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 81.04 / 80
p0 181.1 ± 4.206
300
250
200
150
100
pull
Entries 81
Mean 189
Std Dev 0
2
1
0
−1
−2

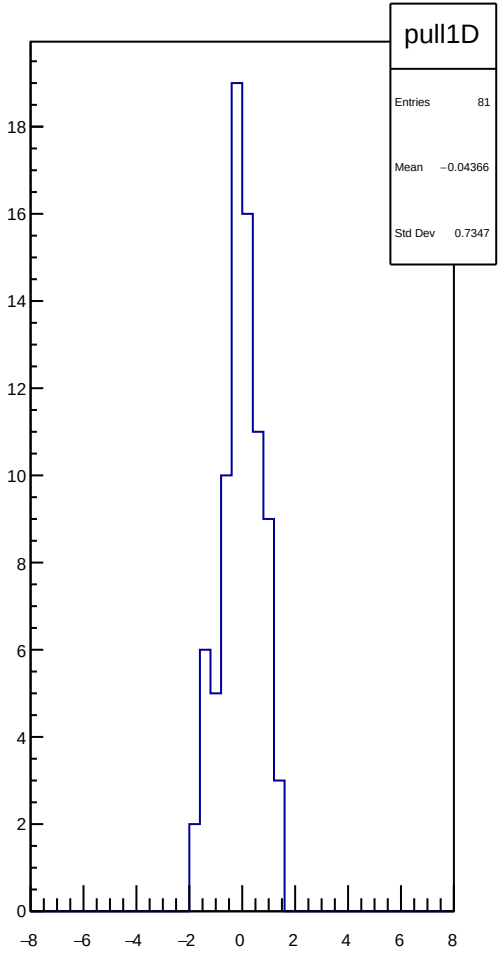

pull1D
Entries 81
Mean 0.09793
Std Dev 0.9954
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

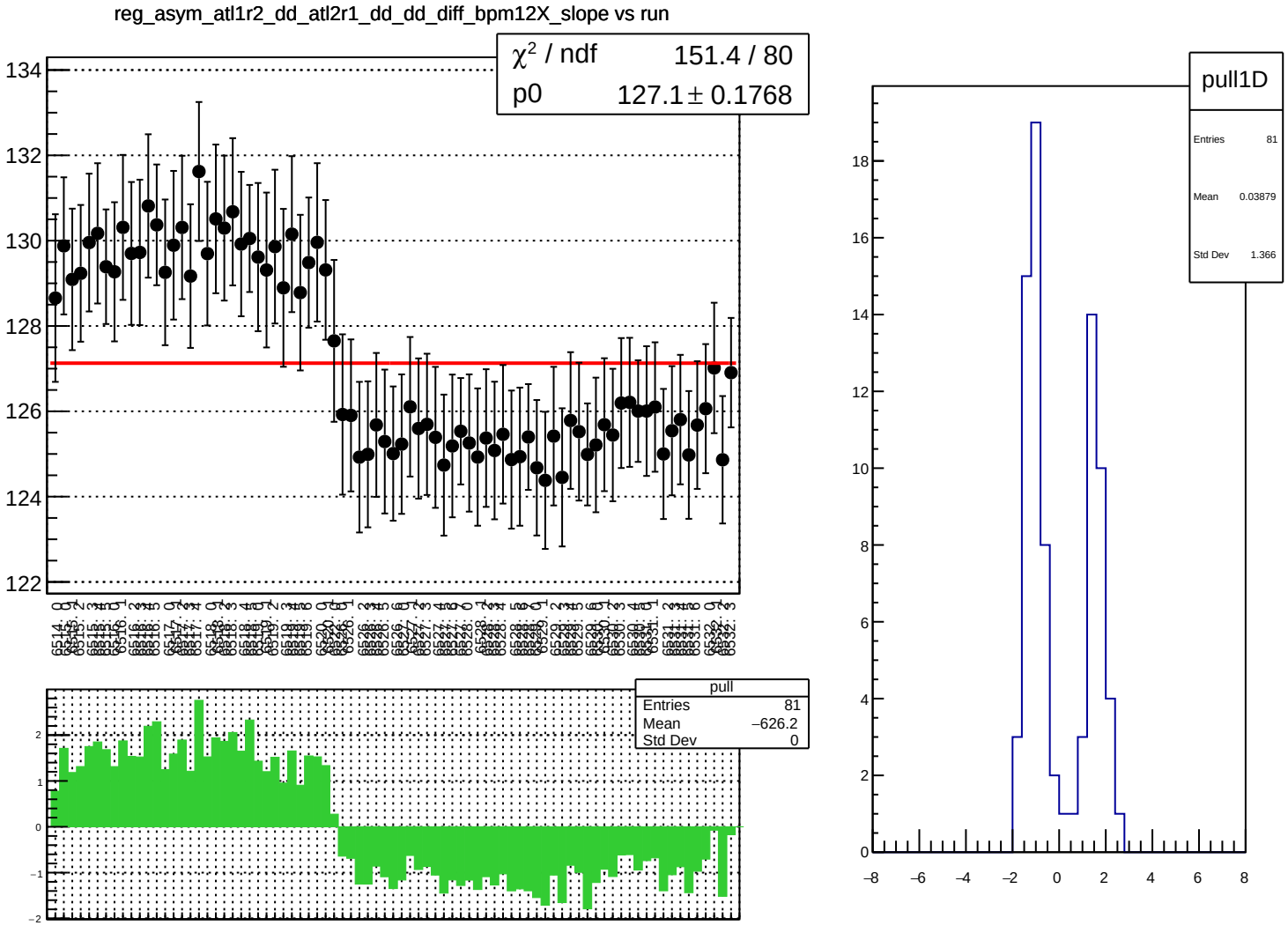

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 46.41 / 80
p0 5.948 ± 4.114
pull
Entries 81
Mean 103.7
Std Dev 0
pull1D
Entries 81
Mean 0.08402
Std Dev 0.7523

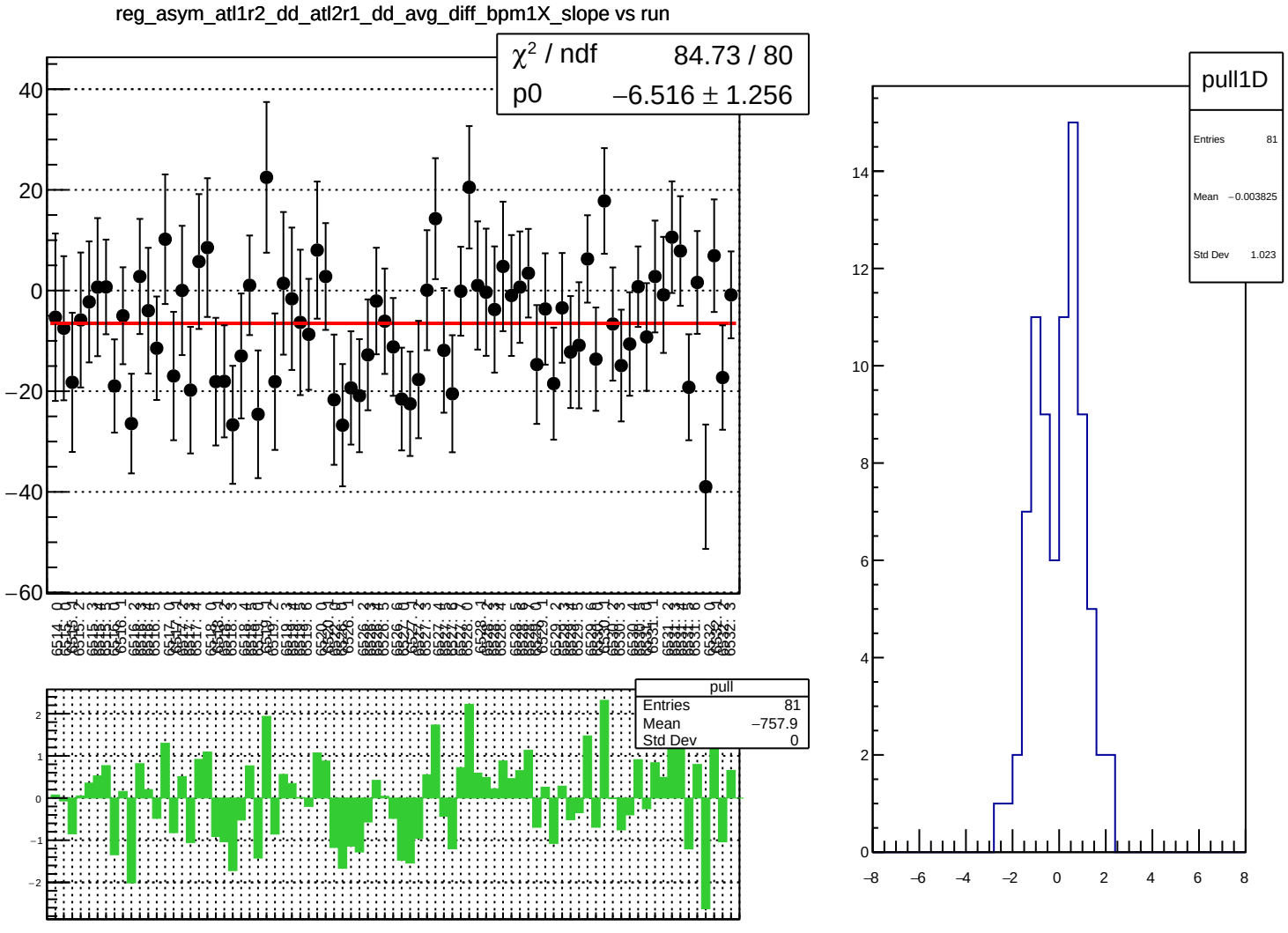

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 74.81 / 80
p0 −203.2 ± 4.388
pull
Entries 81
Mean 186.9
Std Dev 0

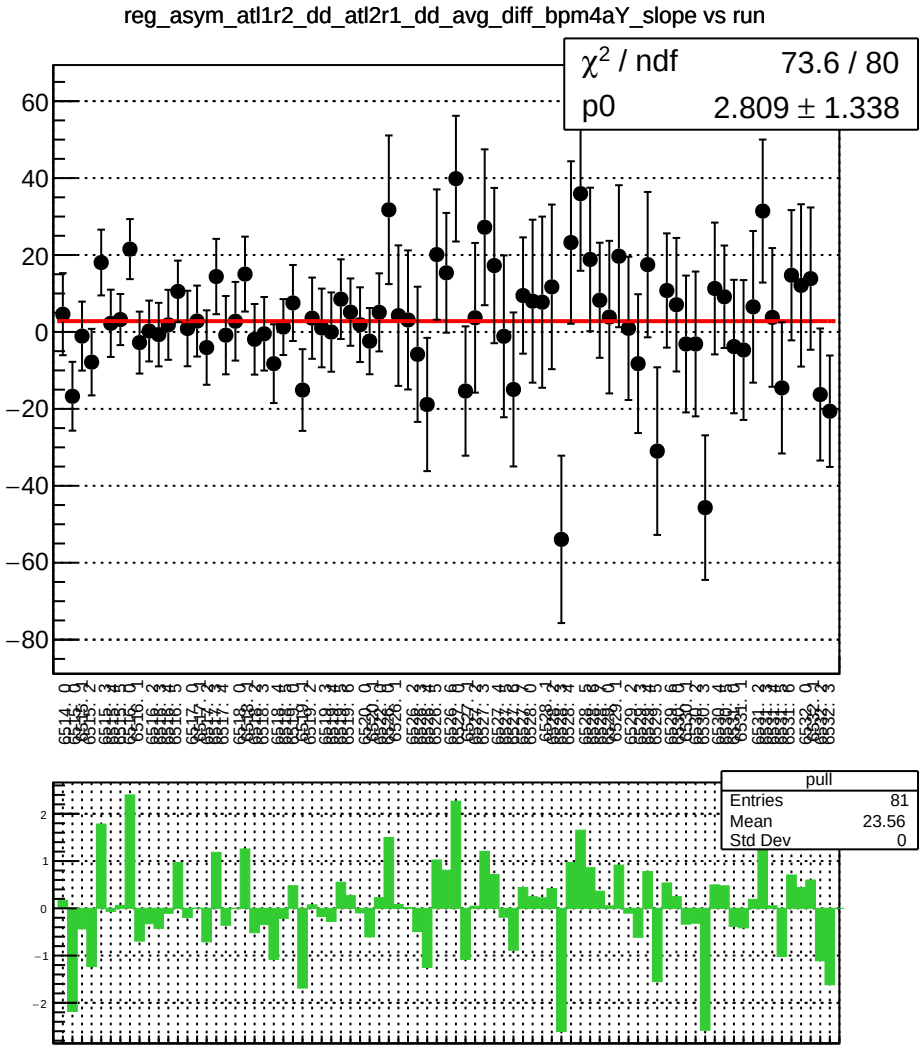

pull1D
Entries 81
Mean −0.09506
Std Dev 0.9563

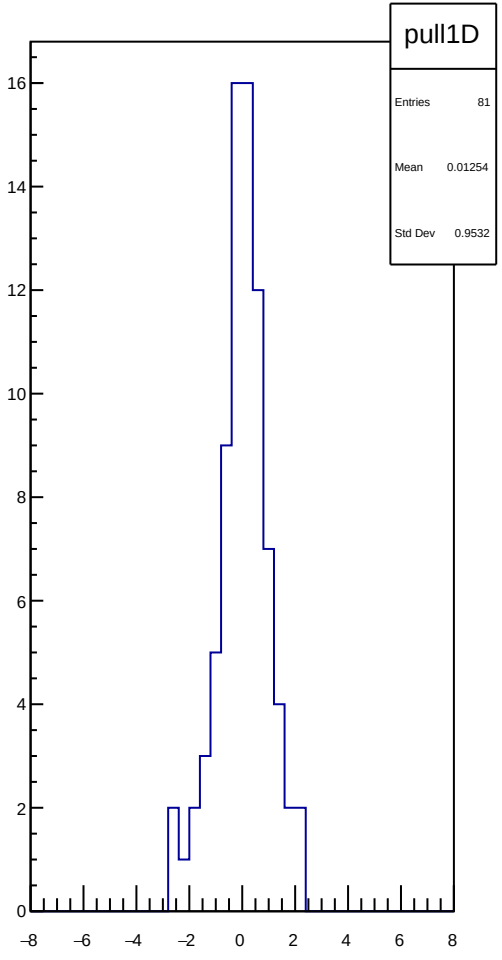

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 43.88 / 80
p0 −90.22 ± 4.727
pull
Entries 81
Mean 147.1
Std Dev 0

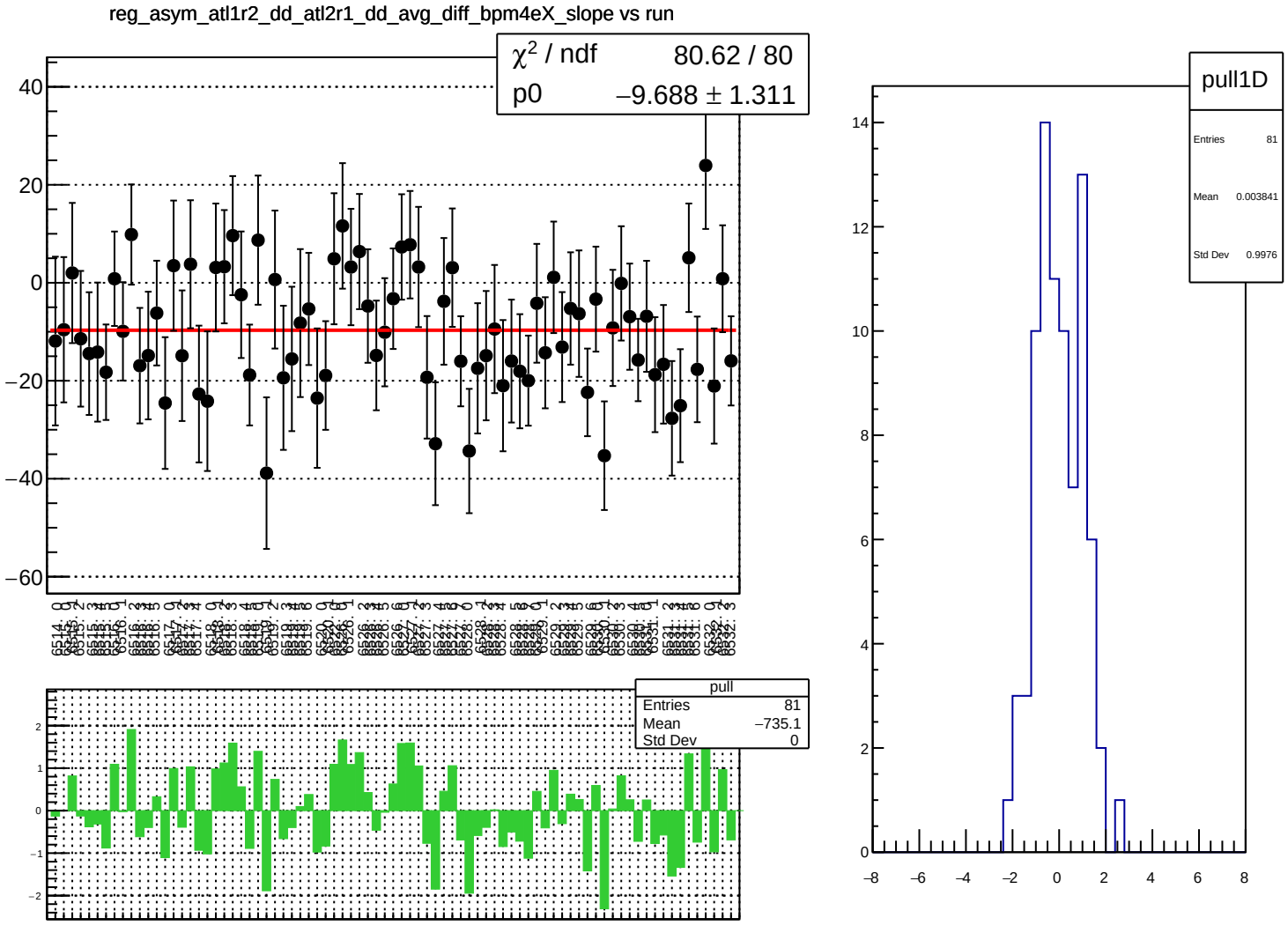

pull1D
Entries 81
Mean −0.04366
Std Dev 0.7347

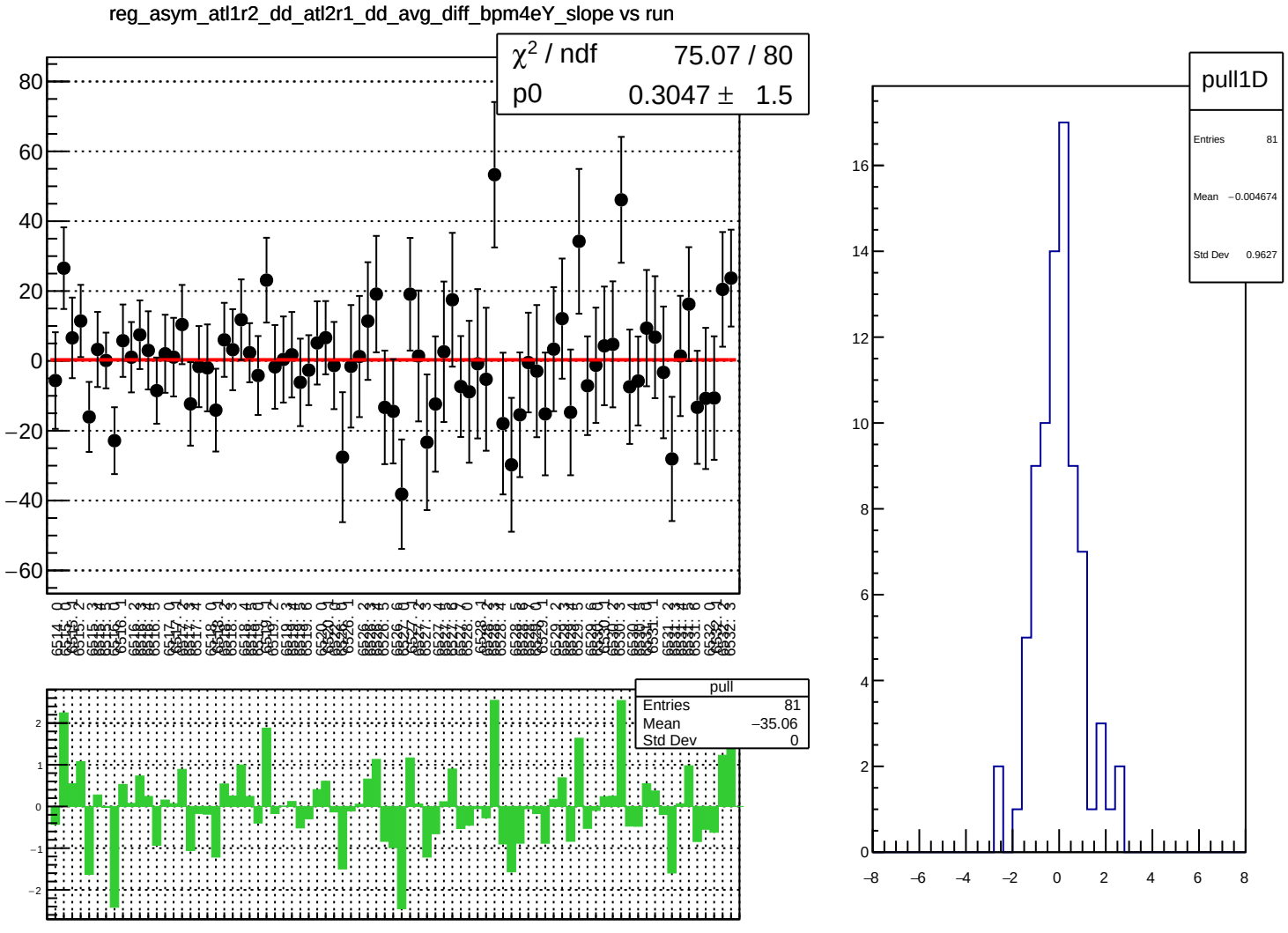

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 151.4 / 80
p0 127.1 ± 0.1768
134
132
130
128
126
124
122
pull
Entries 81
Mean −626.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 81
Mean 0.03879
Std Dev 1.366
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

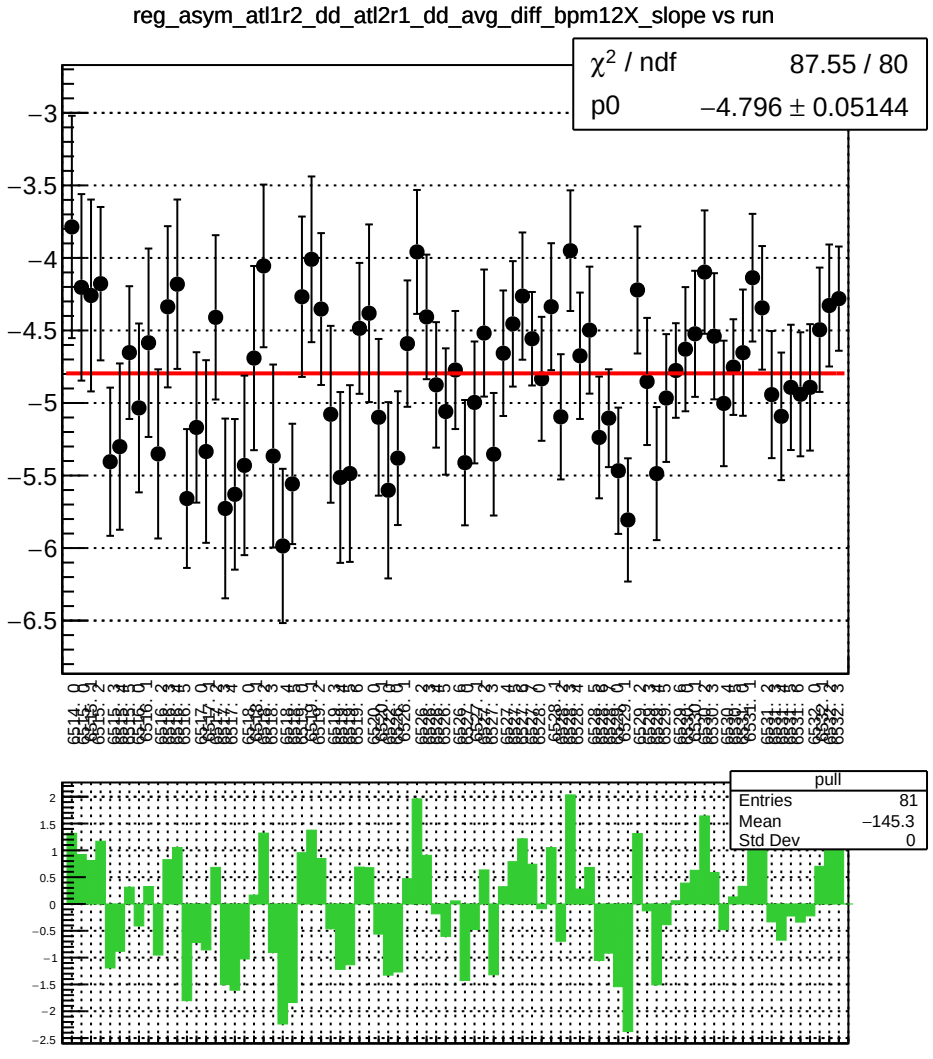

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 84.73 / 80
p0 −6.516 ± 1.256
pull
Entries 81
Mean −757.9
Std Dev 0
pull1D
Entries 81
Mean −0.003825
Std Dev 1.023

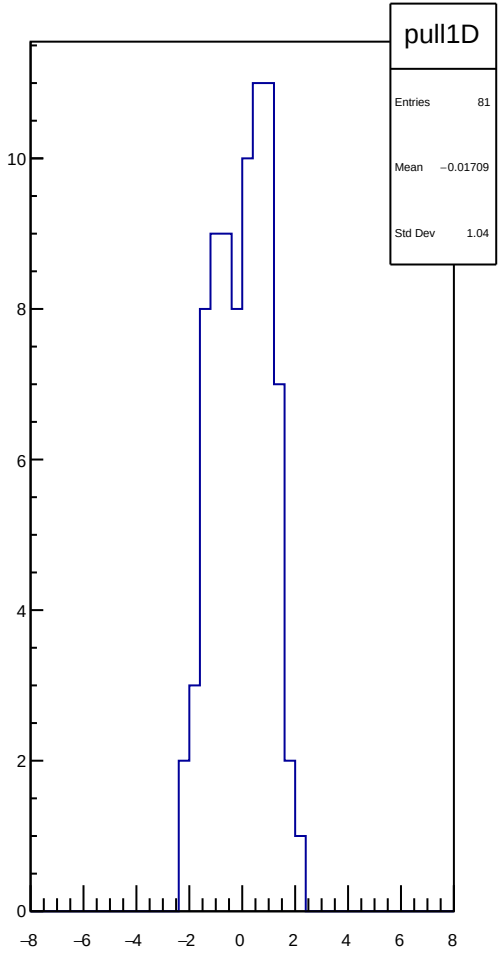

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 73.6 / 80
p0 2.809 ± 1.338
pull
Entries 81
Mean 23.56
Std Dev 0

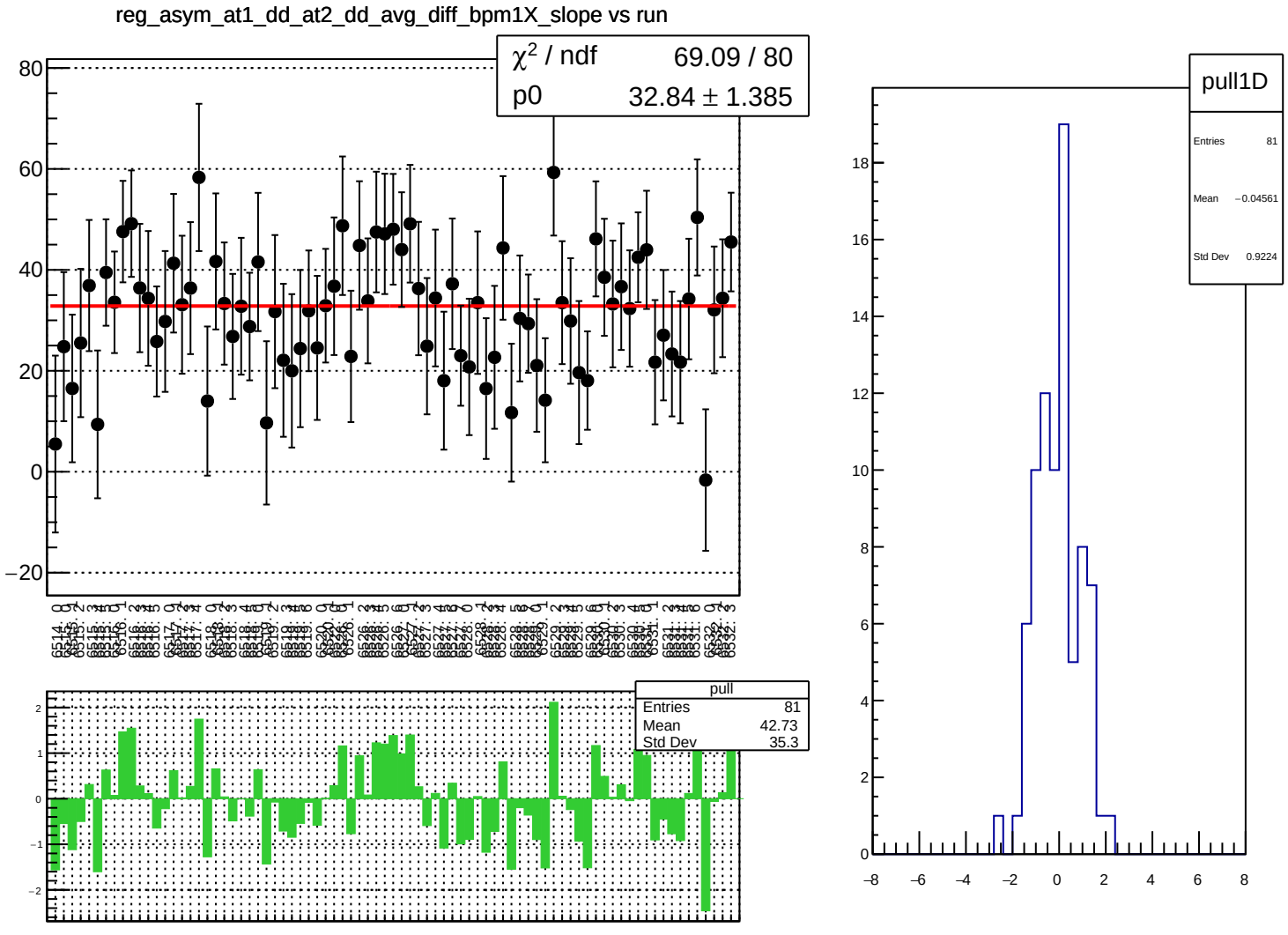

pull1D
Entries 81
Mean 0.01254
Std Dev 0.9532

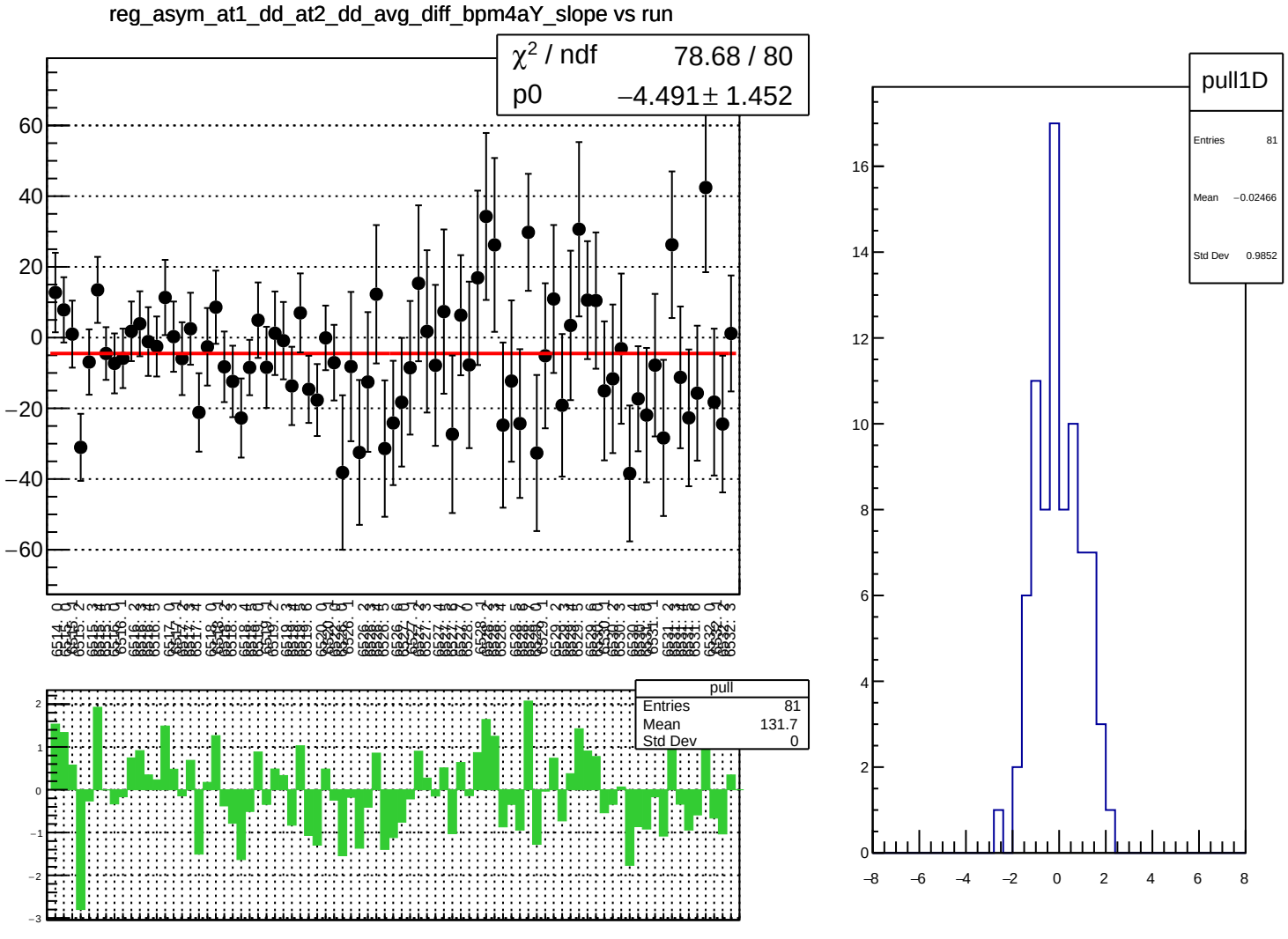

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 80.62 / 80
p0 −9.688 ± 1.311
pull
Entries 81
Mean −735.1
Std Dev 0
pull1D
Entries 81
Mean 0.003841
Std Dev 0.9976

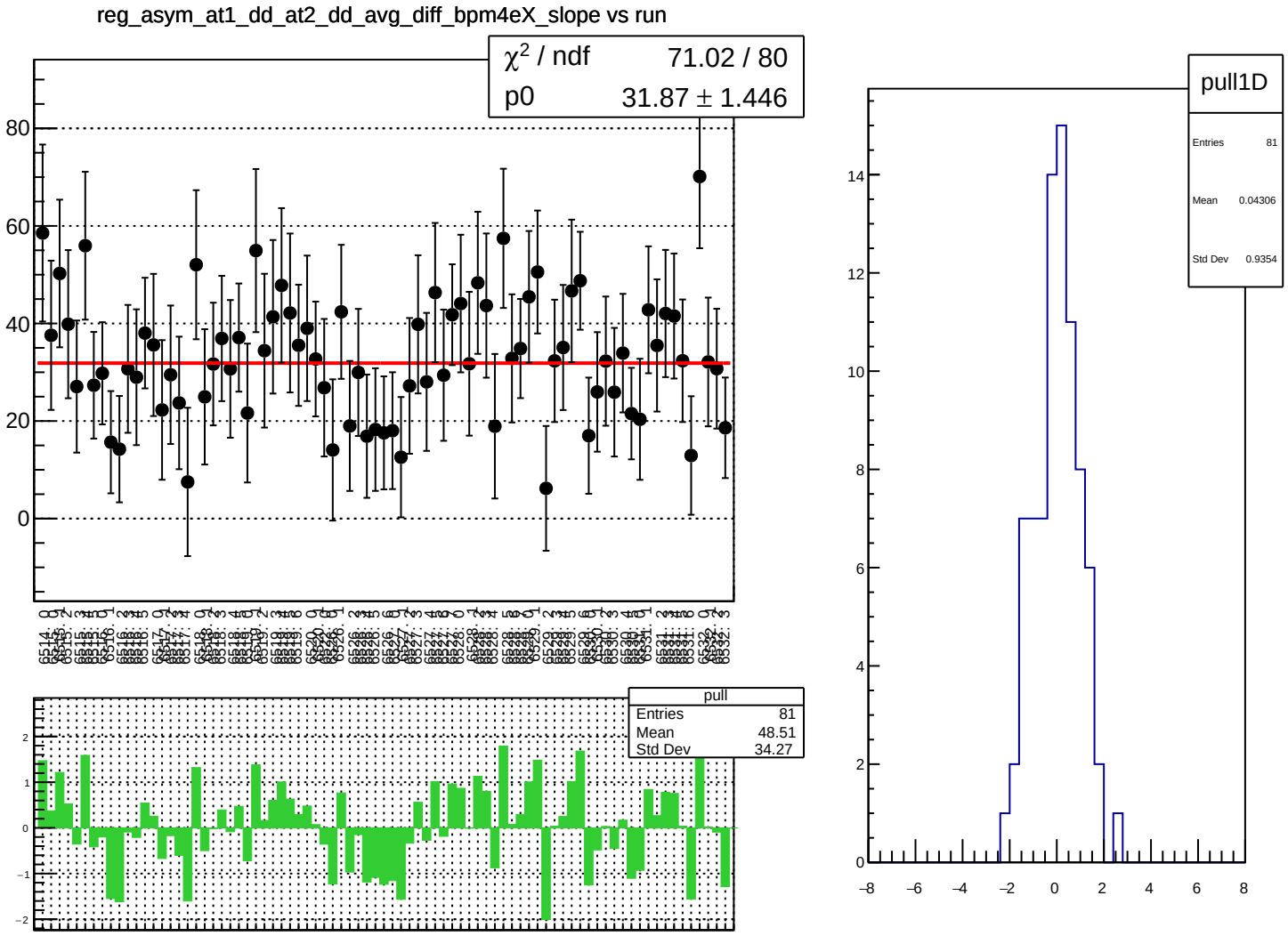

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 75.07 / 80
p0 0.3047 ± 1.5
pull
Entries 81
Mean −35.06
Std Dev 0
pull1D
Entries 81
Mean −0.004674
Std Dev 0.9627

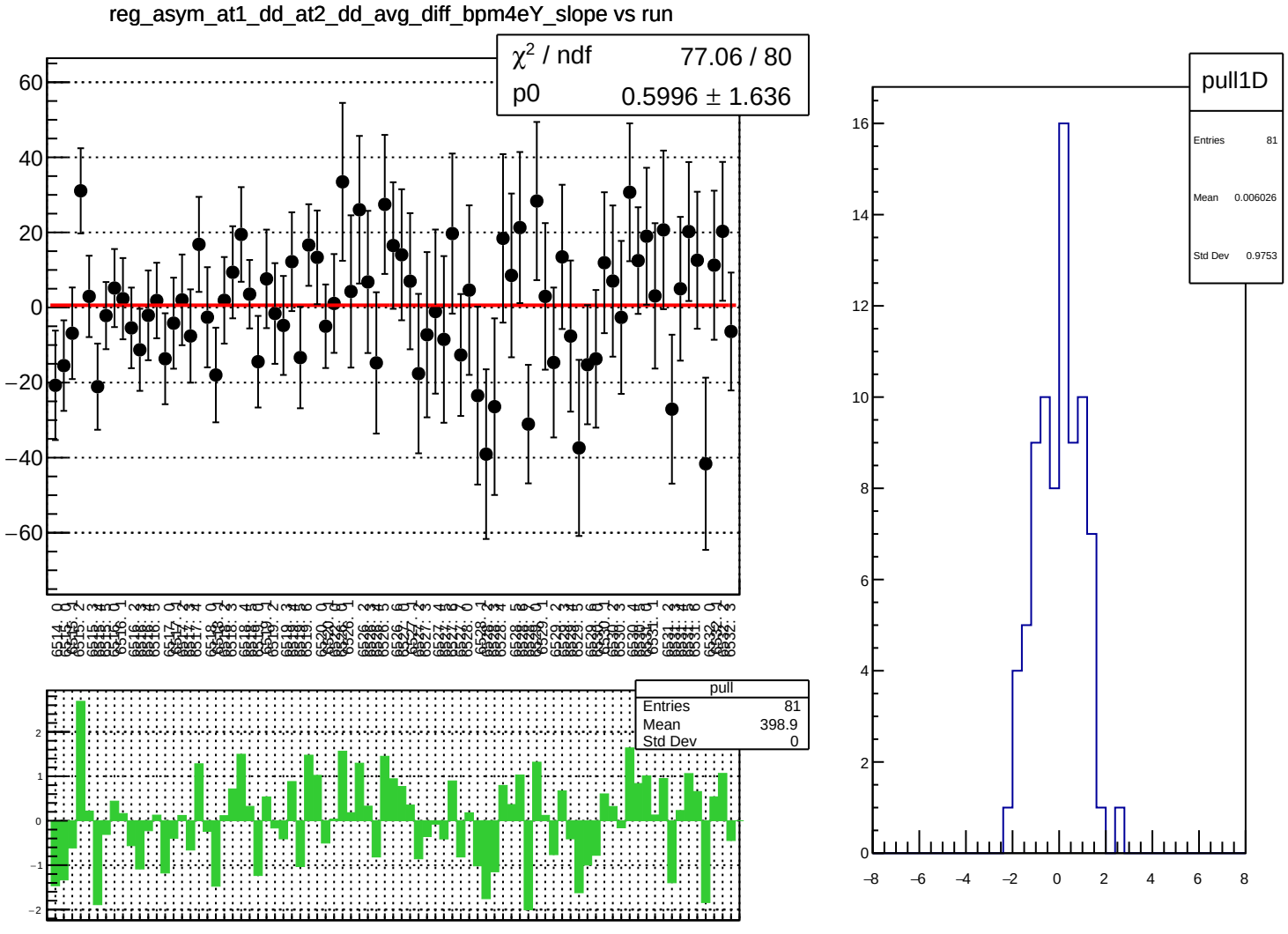

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 87.55 / 80
p0 −4.796 ± 0.05144
pull
Entries 81
Mean −145.3
Std Dev 0

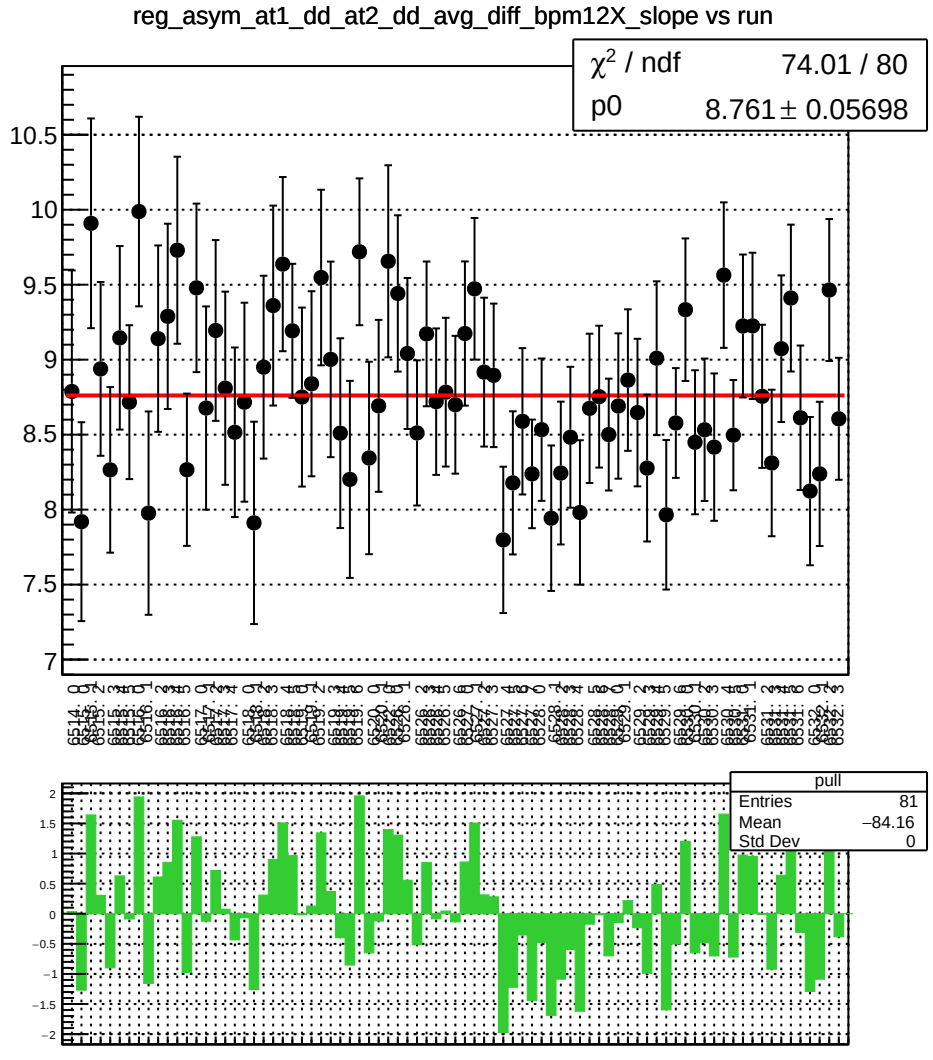

pull1D
Entries 81
Mean −0.01709
Std Dev 1.04

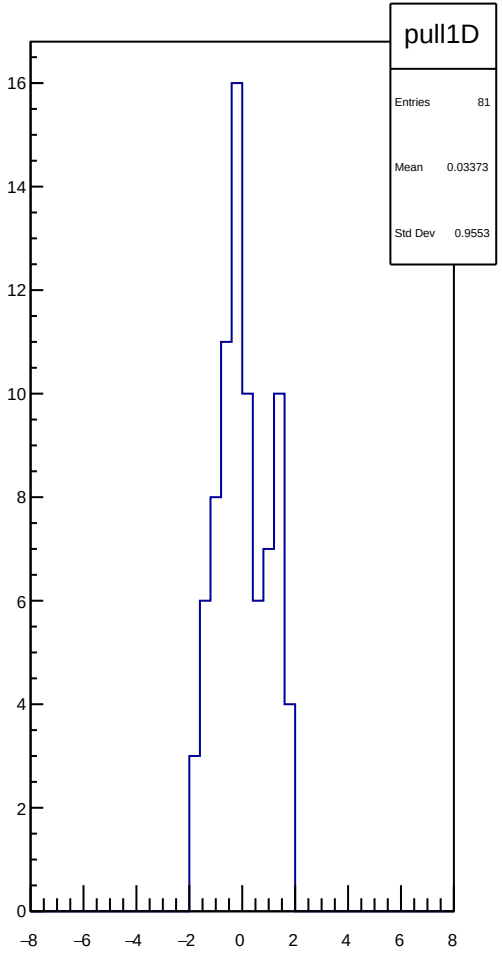

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 69.09 / 80
p0 32.84 ± 1.385
pull
Entries 81
Mean 42.73
Std Dev 35.3
pull1D
Entries 81
Mean −0.04561
Std Dev 0.9224

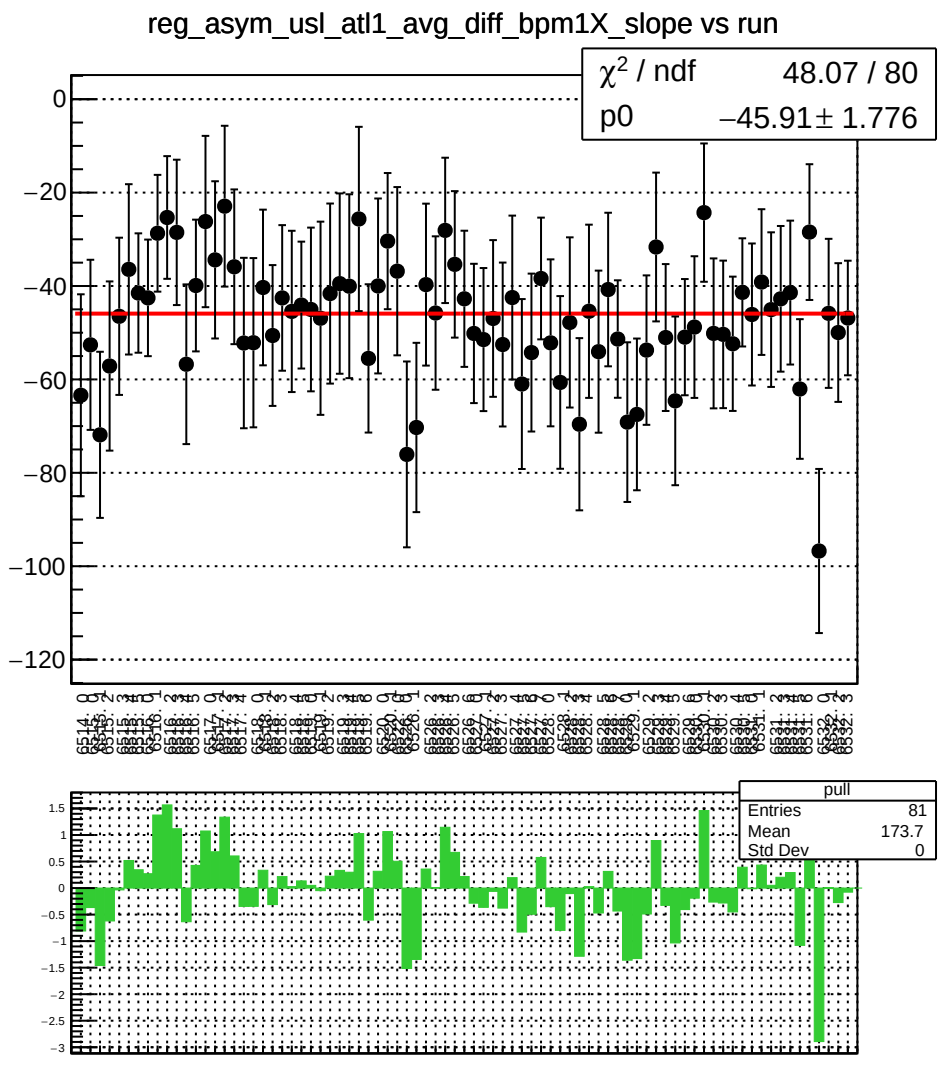

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 78.68 / 80
p0 −4.491 ± 1.452
pull
Entries 81
Mean 131.7
Std Dev 0
pull1D
Entries 81
Mean −0.02466
Std Dev 0.9852

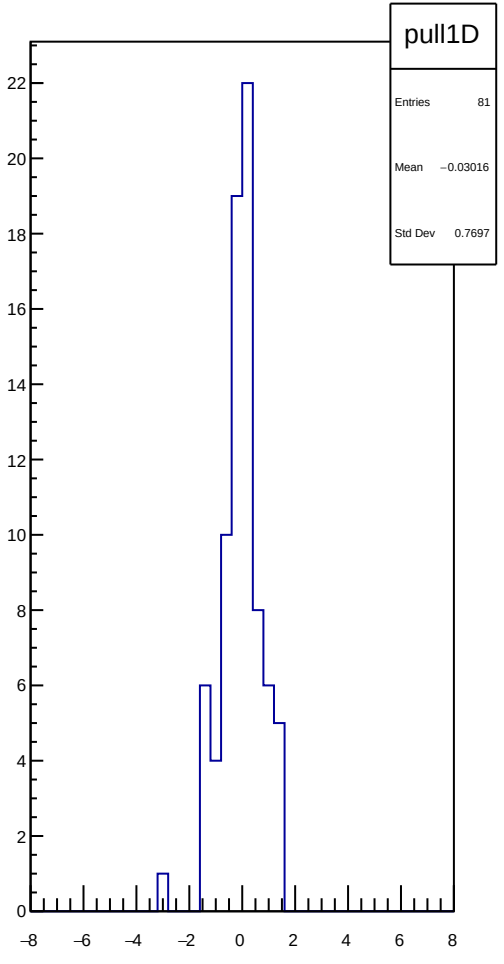

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 71.02 / 80
p0 31.87 ± 1.446
pull
Entries 81
Mean 48.51
Std Dev 34.27
pull1D
Entries 81
Mean 0.04306
Std Dev 0.9354

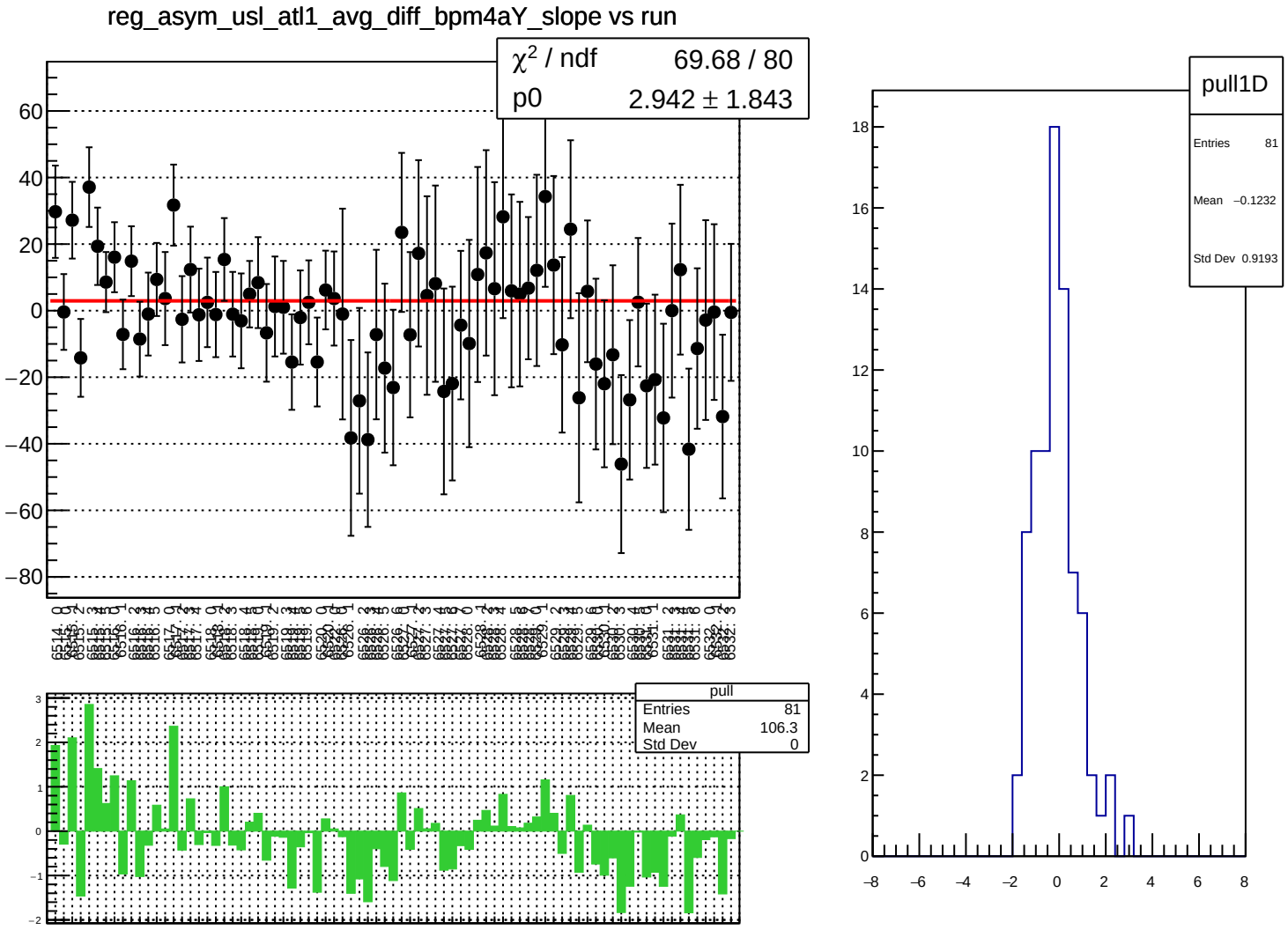

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 77.06 / 80
p0 0.5996 ± 1.636
pull
Entries 81
Mean 398.9
Std Dev 0
pull1D
Entries 81
Mean 0.006026
Std Dev 0.9753

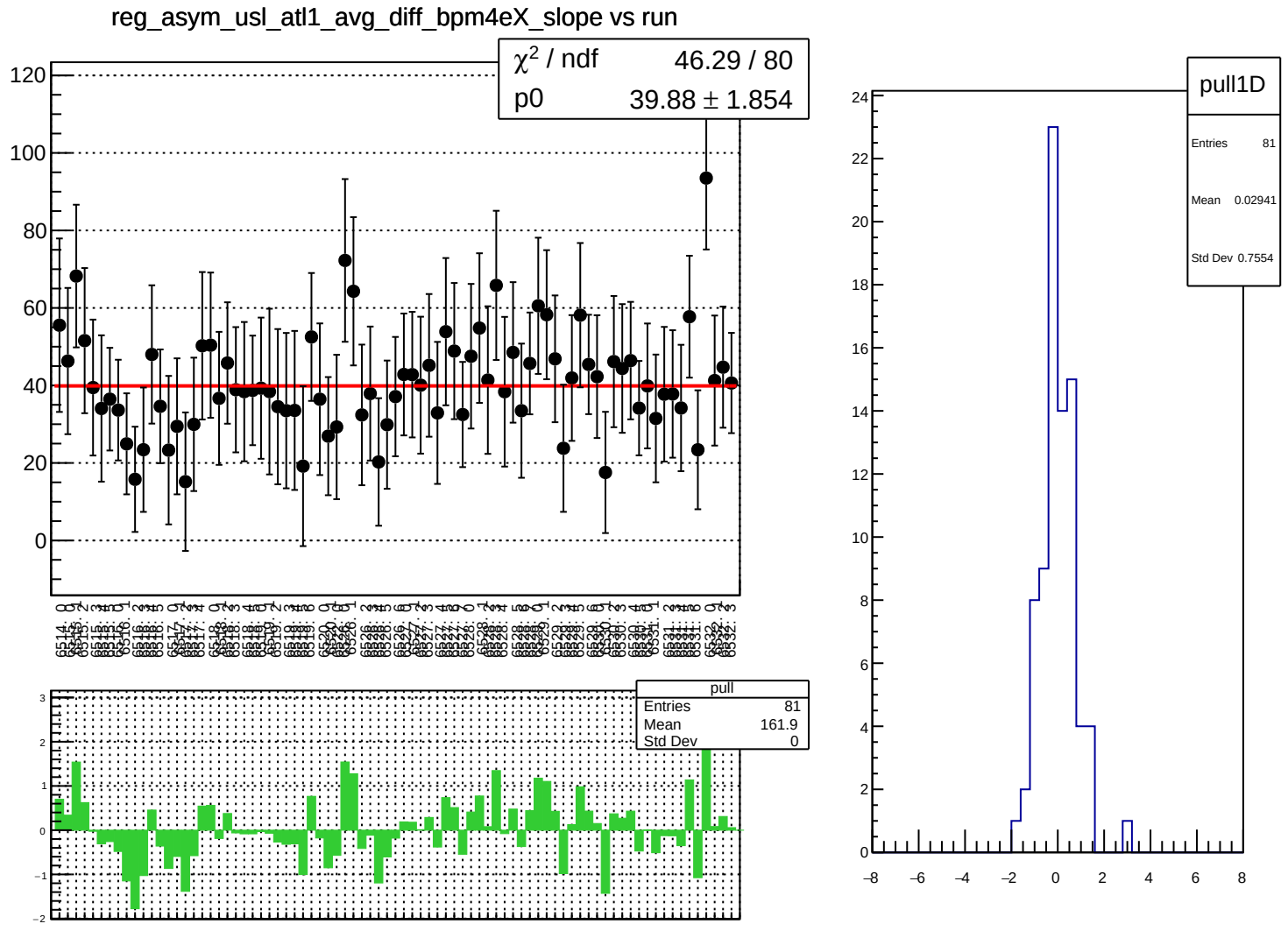

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 74.01 / 80
p0 8.761 ± 0.05698
pull
Entries 81
Mean −84.16
Std Dev 0

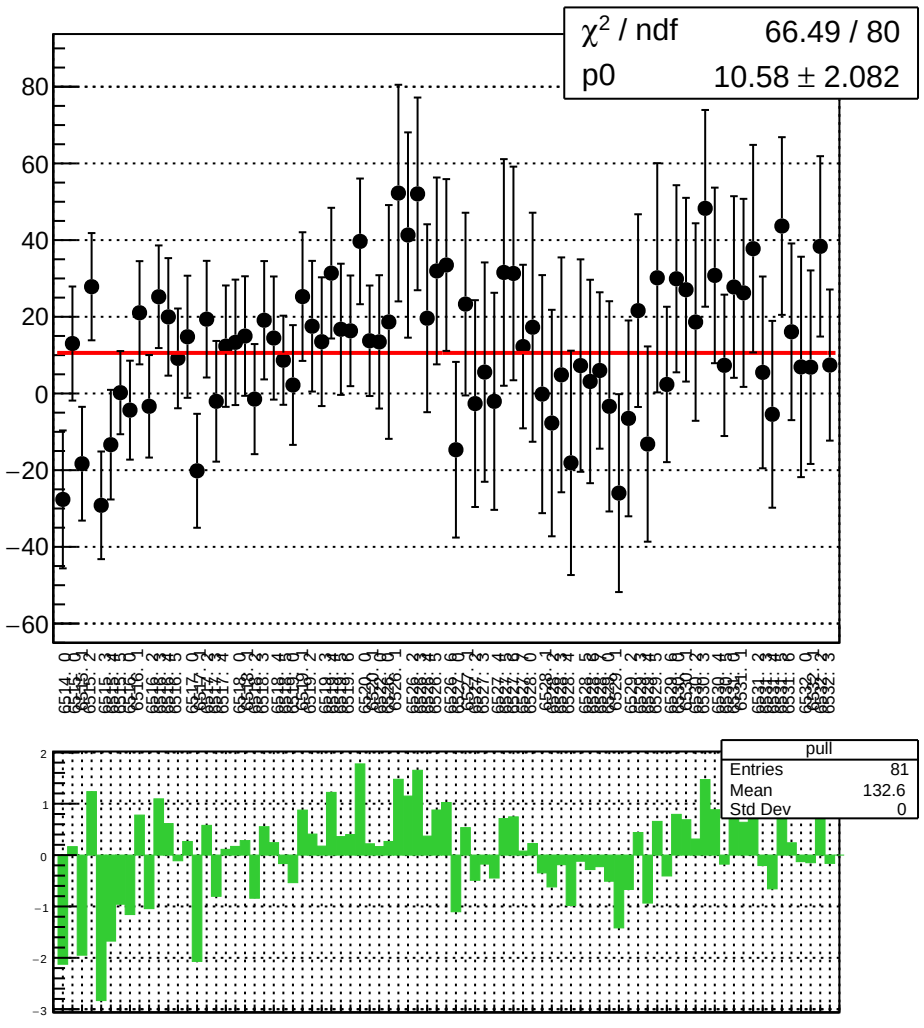

pull1D
Entries 81
Mean 0.03373
Std Dev 0.9553

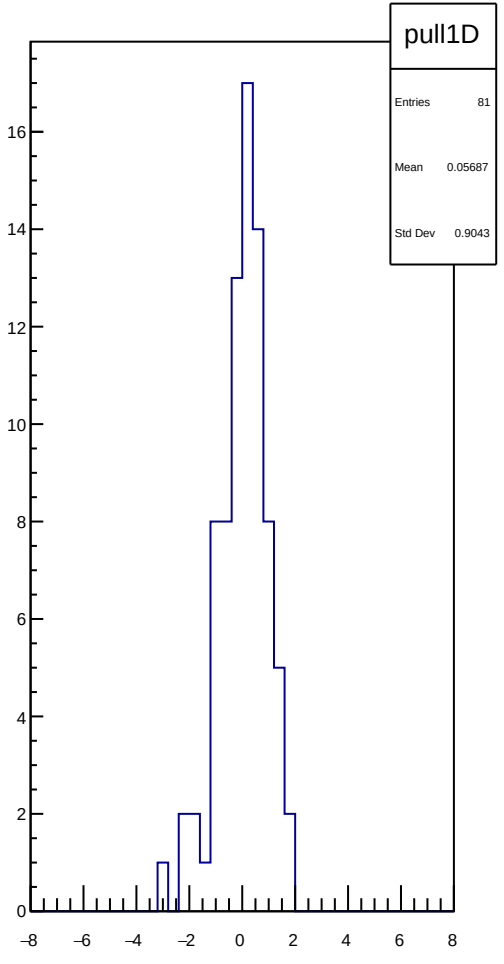

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 48.07 / 80
p0 −45.91 ± 1.776
pull
Entries 81
Mean 173.7
Std Dev 0

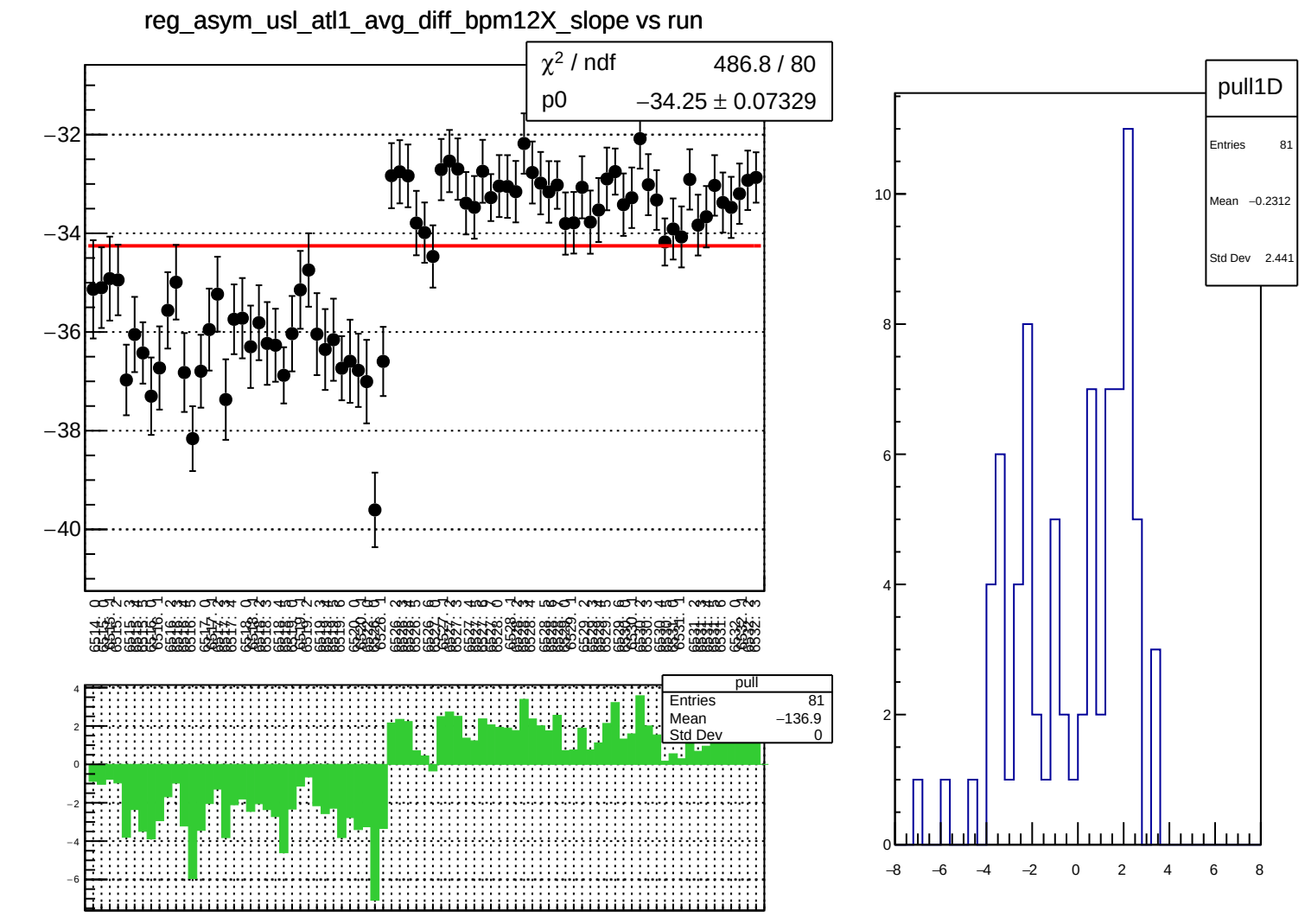

pull1D
Entries 81
Mean −0.03016
Std Dev 0.7697

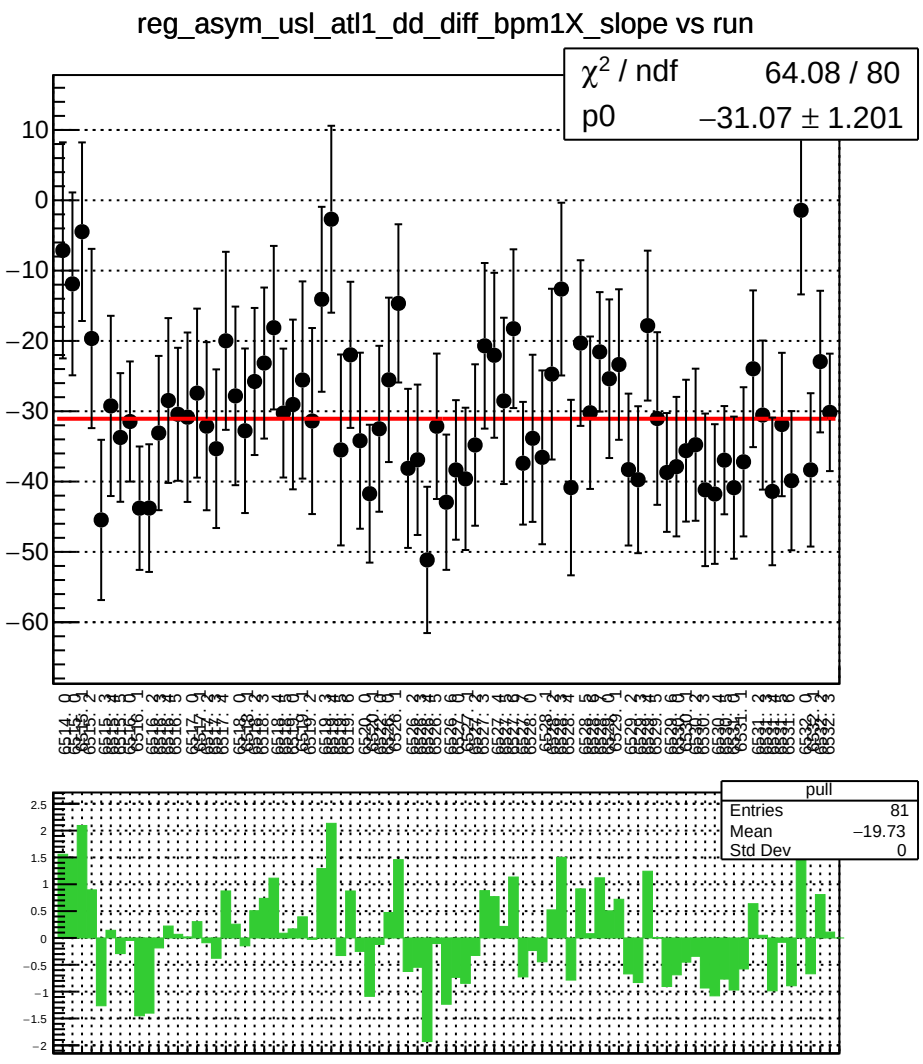

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 69.68 / 80
p0 2.942 ± 1.843
pull
Entries 81
Mean 106.3
Std Dev 0
pull1D
Entries 81
Mean −0.1232
Std Dev 0.9193

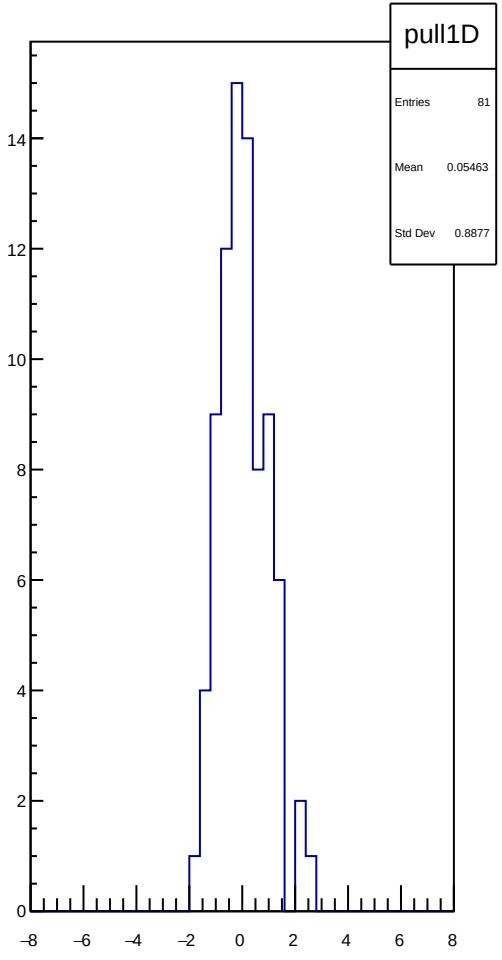

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 46.29 / 80
p0 39.88 ± 1.854
pull
Entries 81
Mean 161.9
Std Dev 0
pull1D
Entries 81
Mean 0.02941
Std Dev 0.7554

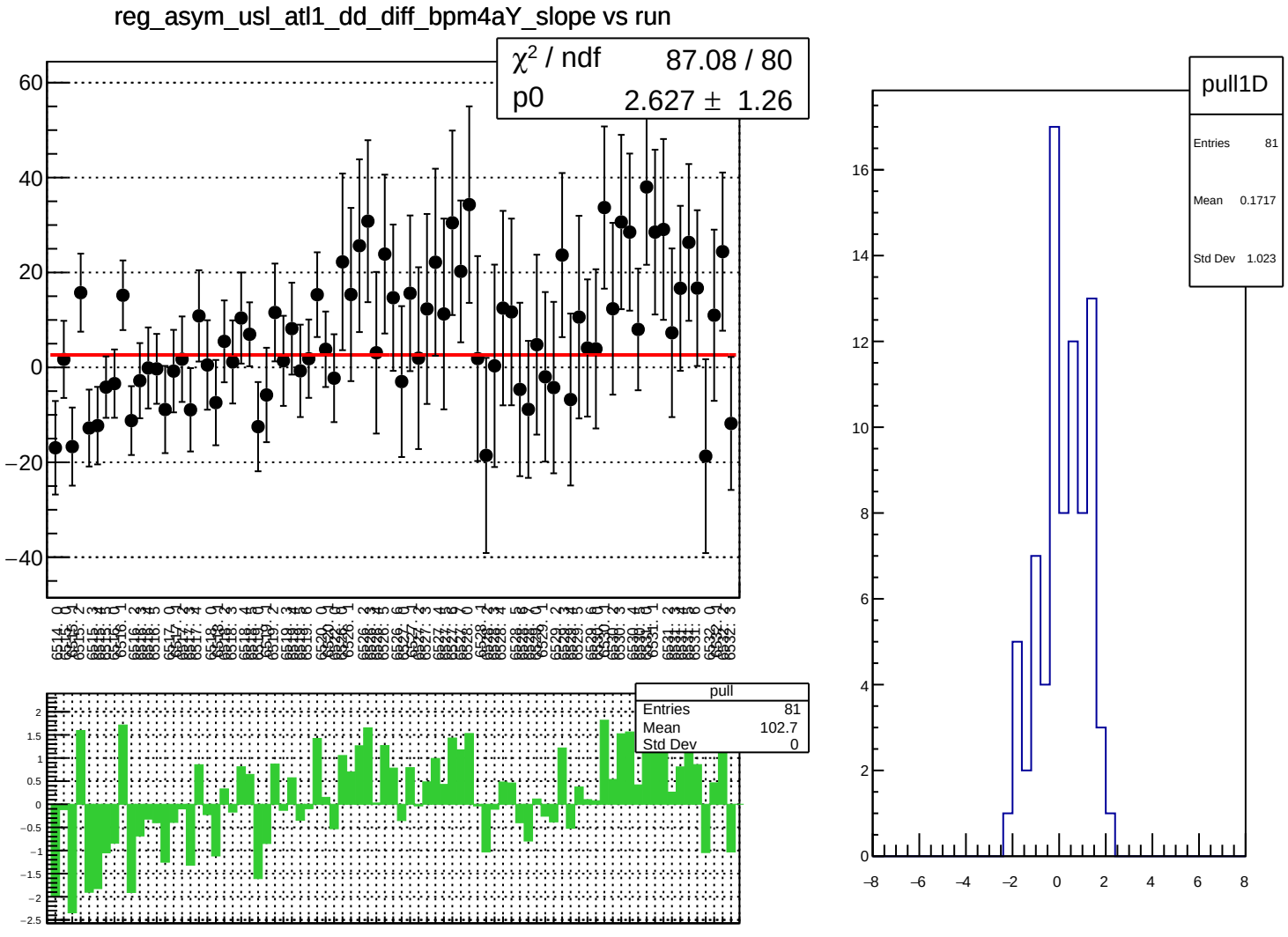

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 66.49 / 80
p0 10.58 ± 2.082
pull
Entries 81
Mean 132.6
Std Dev 0

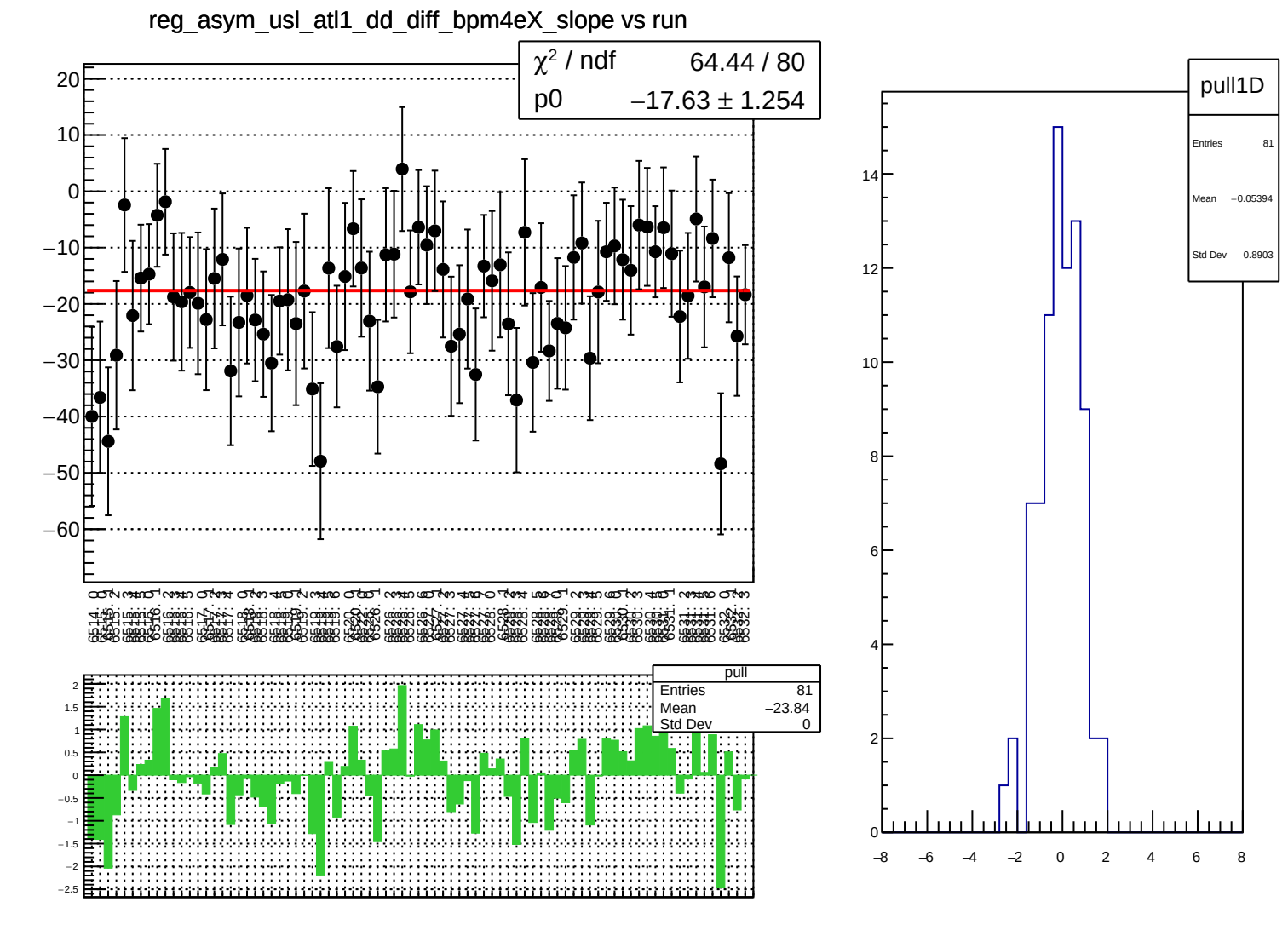

pull1D
Entries 81
Mean 0.05687
Std Dev 0.9043

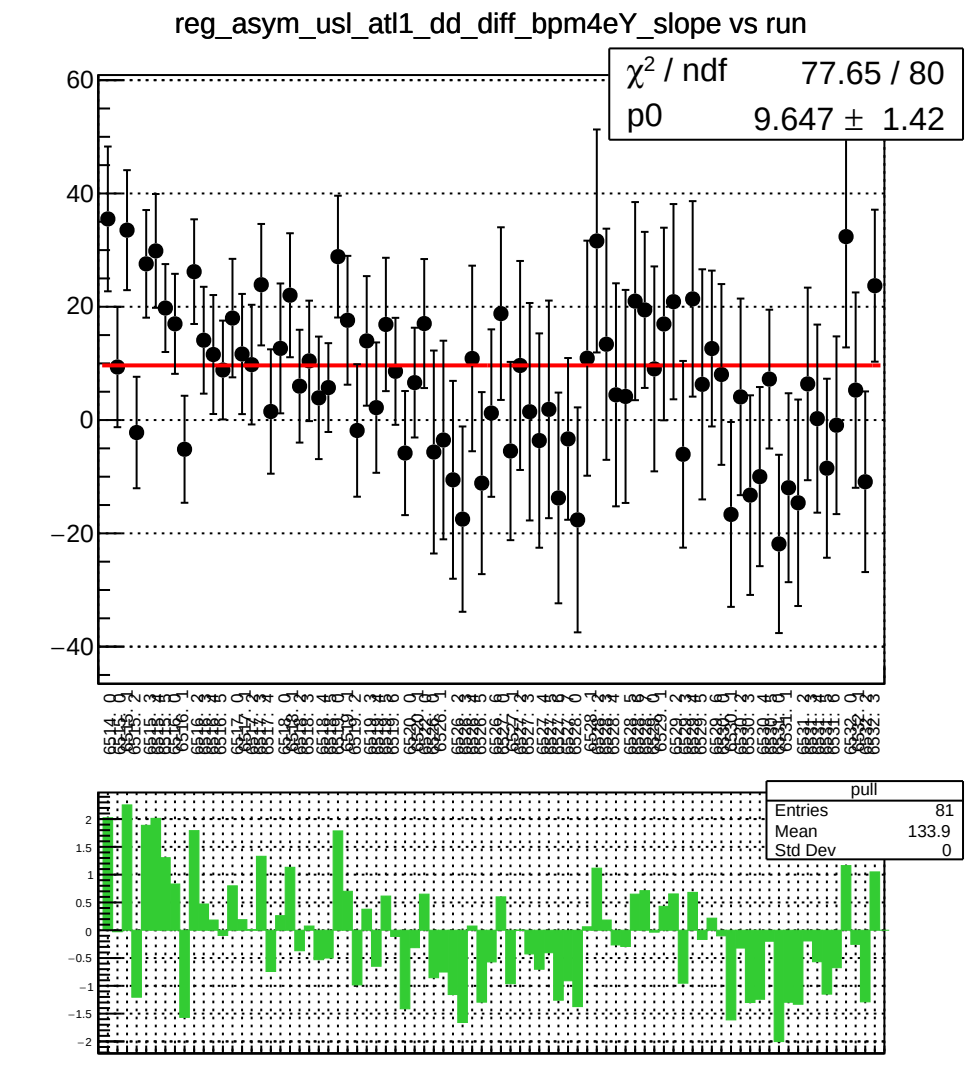

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 486.8 / 80
p0 −34.25 ± 0.07329
−32
−34
−36
−38
−40
pull
Entries 81
Mean −136.9
Std Dev 0
4
2
0
−2
−4
−6
pull1D
Entries 81
Mean −0.2312
Std Dev 2.441
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

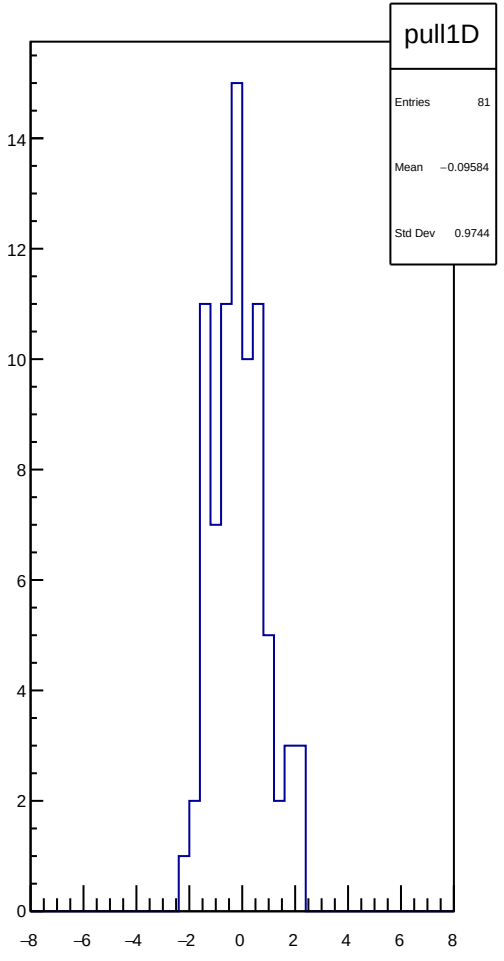

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 64.08 / 80
p0 −31.07 ± 1.201
pull
Entries 81
Mean −19.73
Std Dev 0

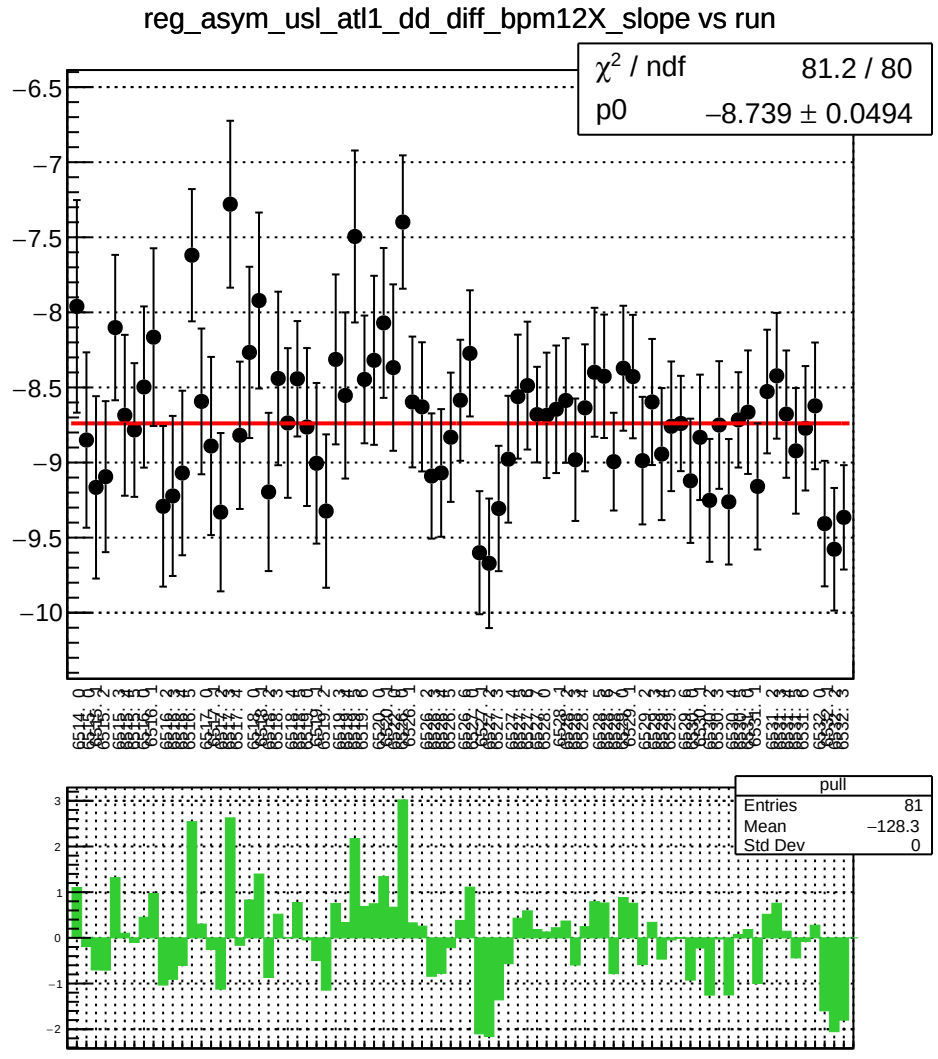

pull1D
Entries 81
Mean 0.05463
Std Dev 0.8877

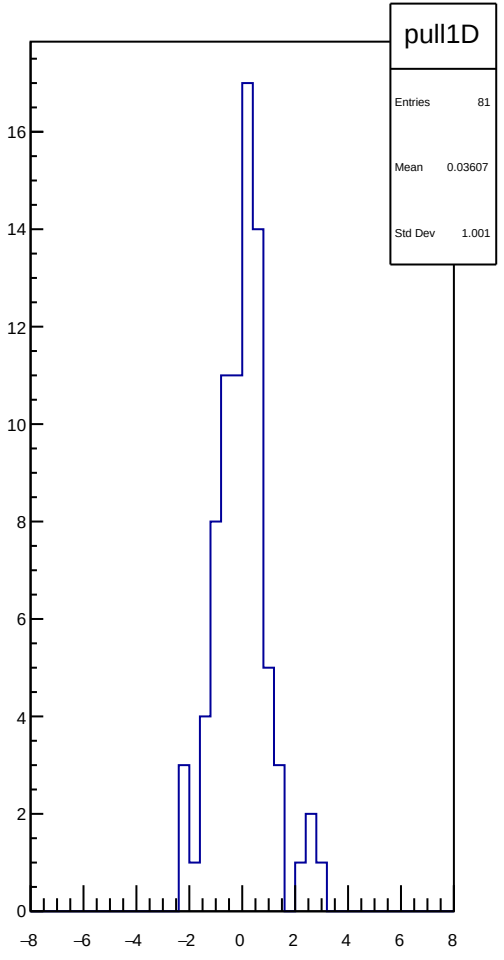

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 87.08 / 80
p0 2.627 ± 1.26
pull
Entries 81
Mean 102.7
Std Dev 0
pull1D
Entries 81
Mean 0.1717
Std Dev 1.023

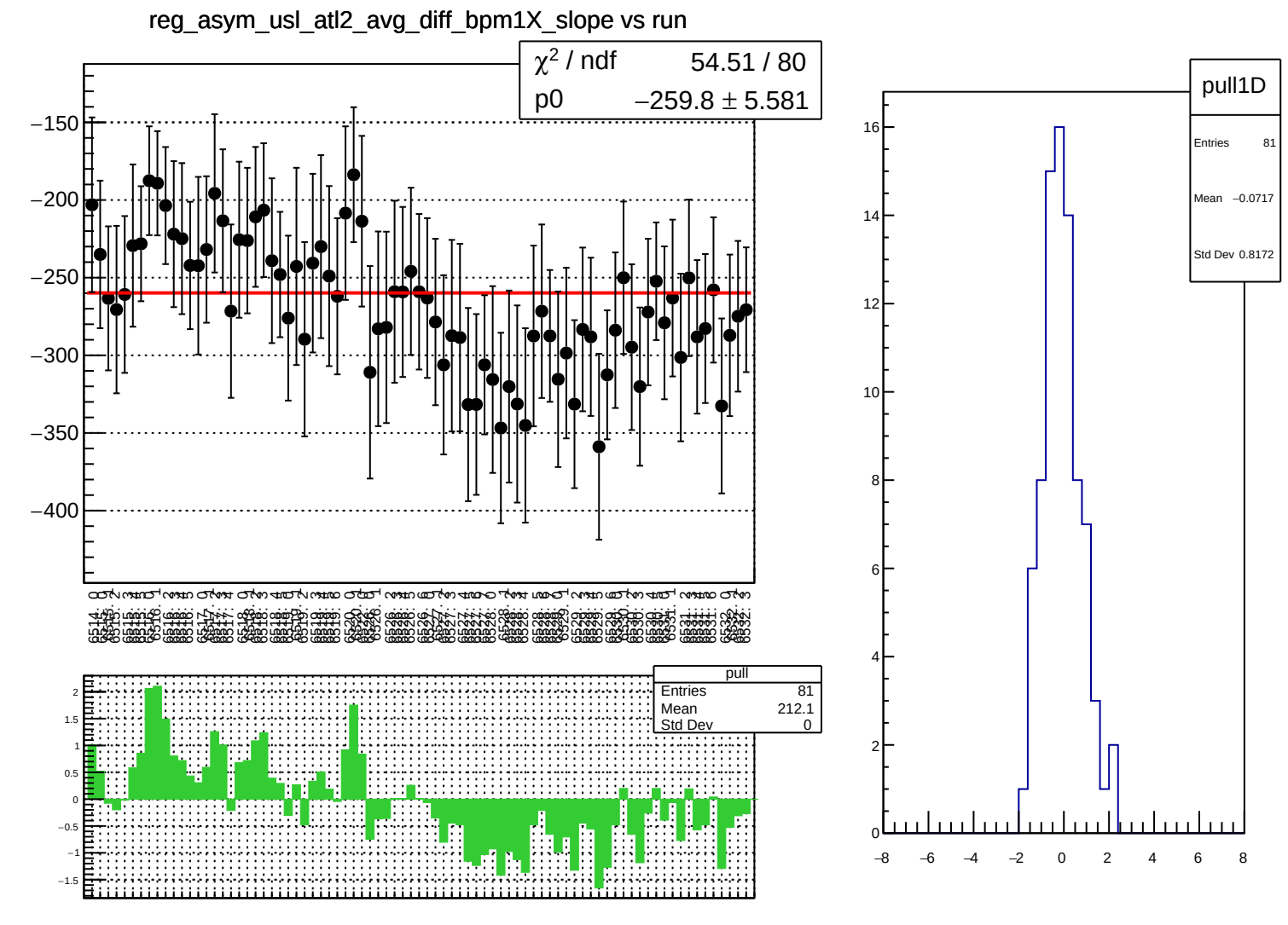

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 64.44 / 80
p0 −17.63 ± 1.254
pull
Entries 81
Mean −23.84
Std Dev 0
pull1D
Entries 81
Mean −0.05394
Std Dev 0.8903

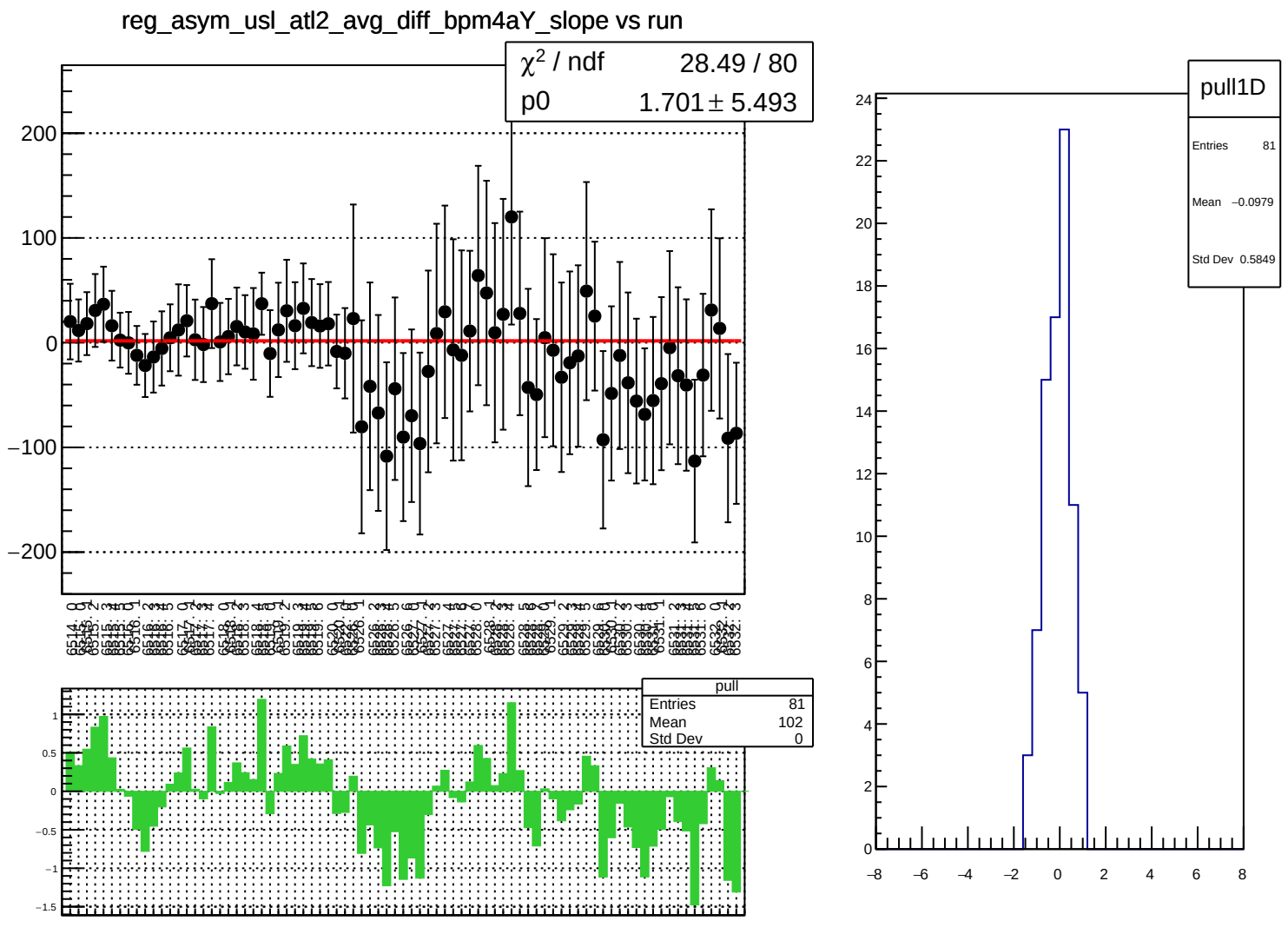

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 77.65 / 80
p0 9.647 ± 1.42
pull
Entries 81
Mean 133.9
Std Dev 0

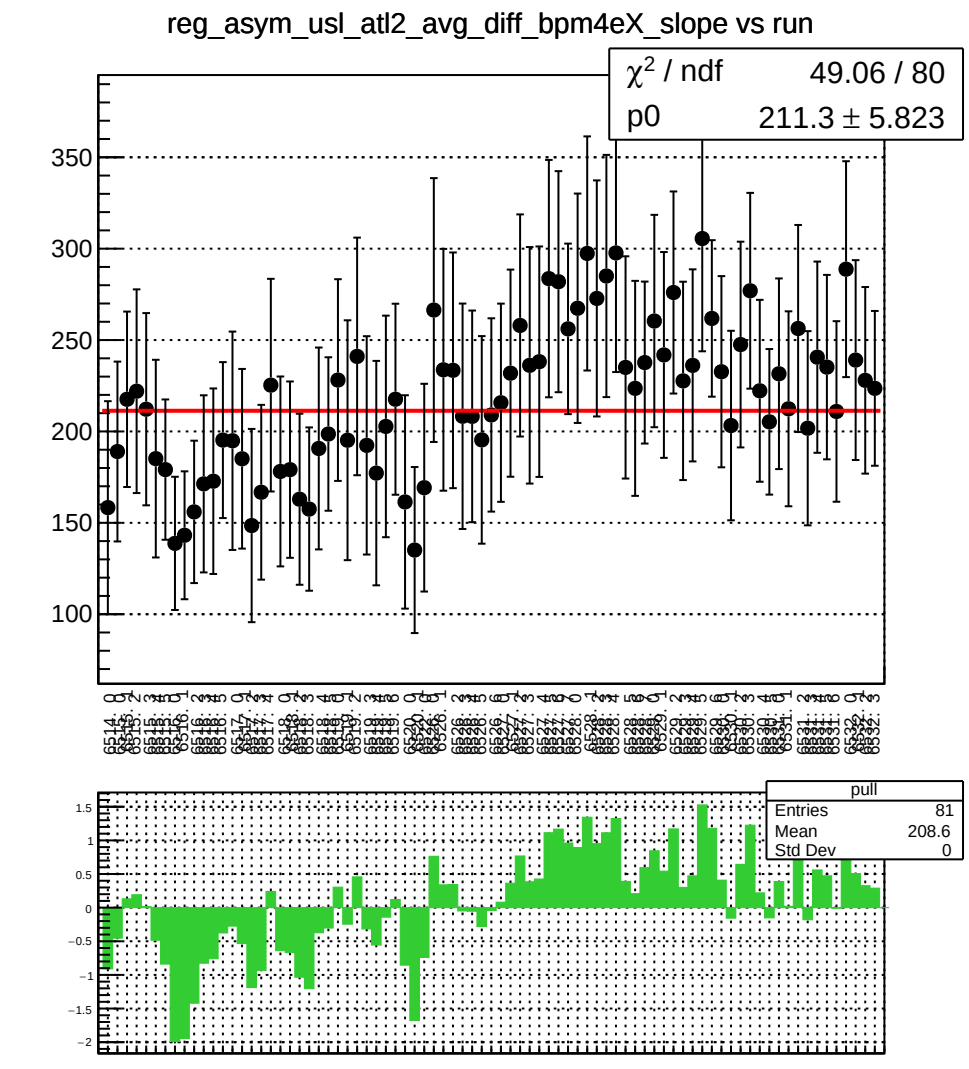

pull1D
Entries 81
Mean −0.09584
Std Dev 0.9744

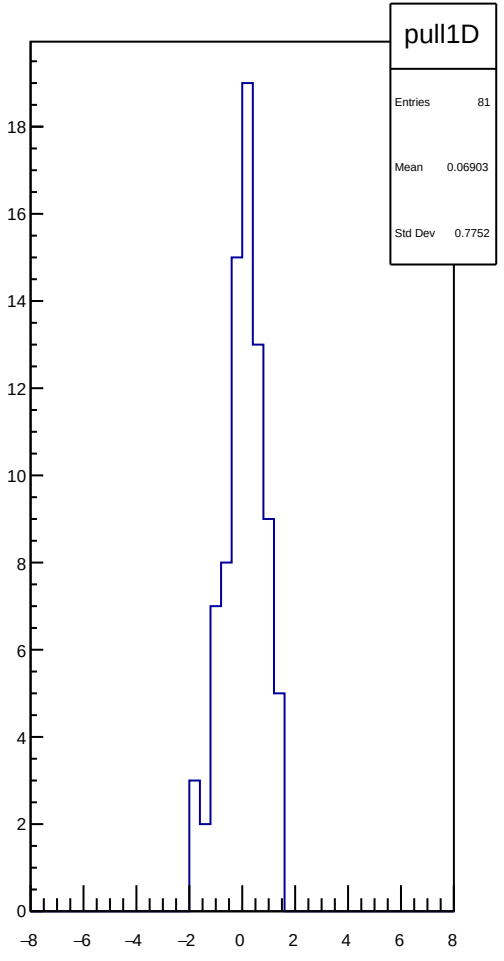

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 81.2 / 80
p0 −8.739 ± 0.0494
pull
Entries 81
Mean −128.3
Std Dev 0

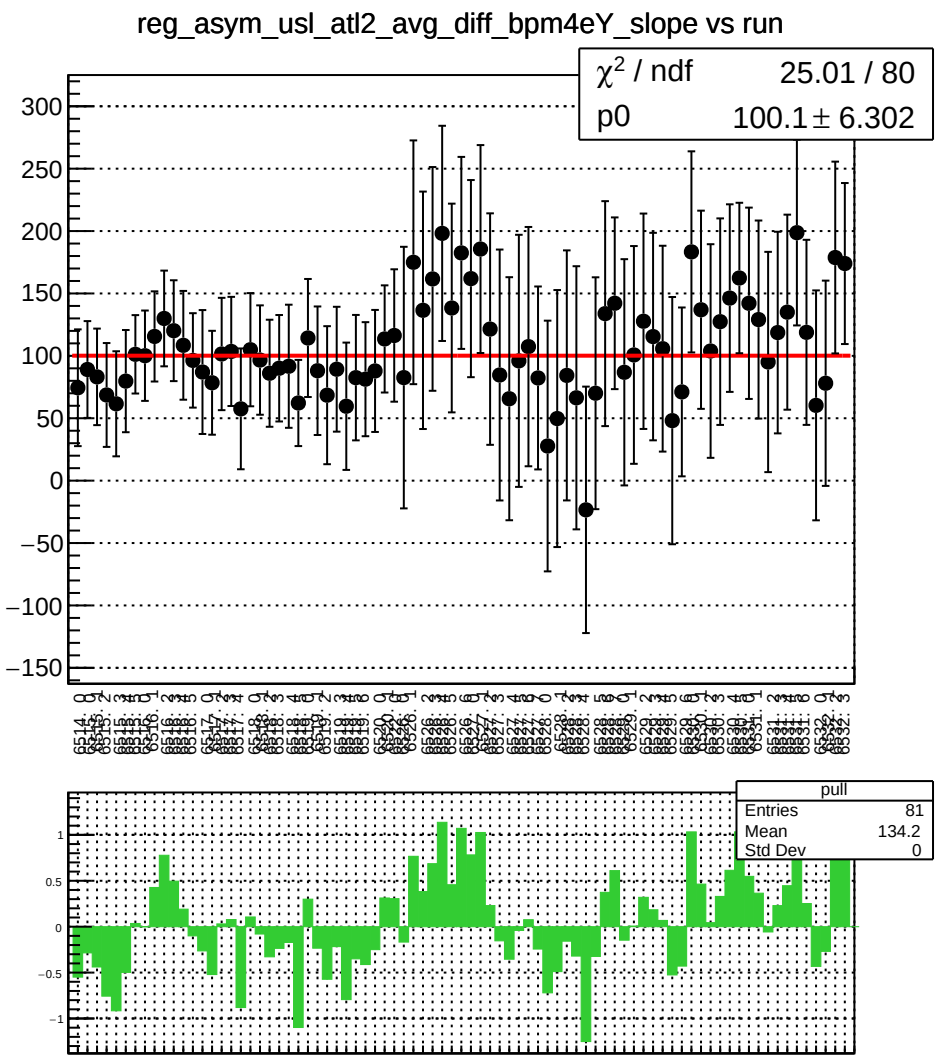

pull1D
Entries 81
Mean 0.03607
Std Dev 1.001

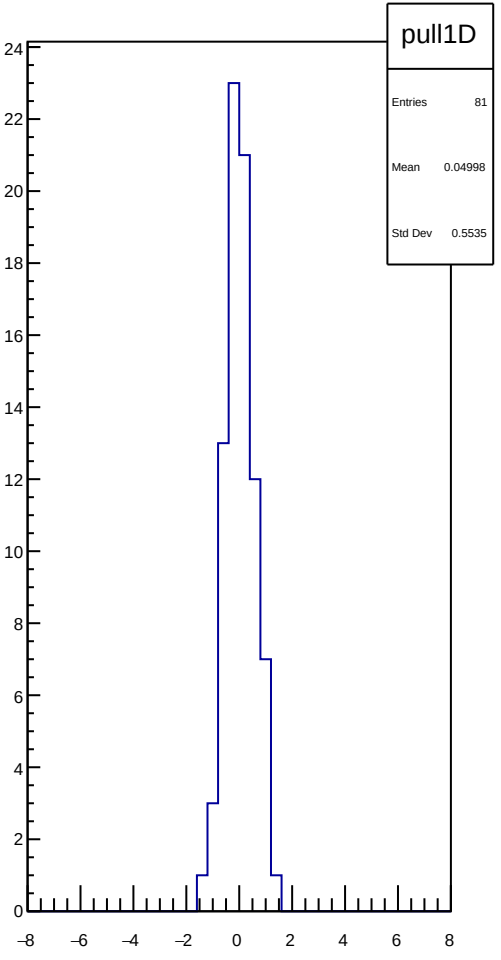

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 54.51 / 80
p0 −259.8 ± 5.581
pull
Entries 81
Mean 212.1
Std Dev 0
pull1D
Entries 81
Mean −0.0717
Std Dev 0.8172

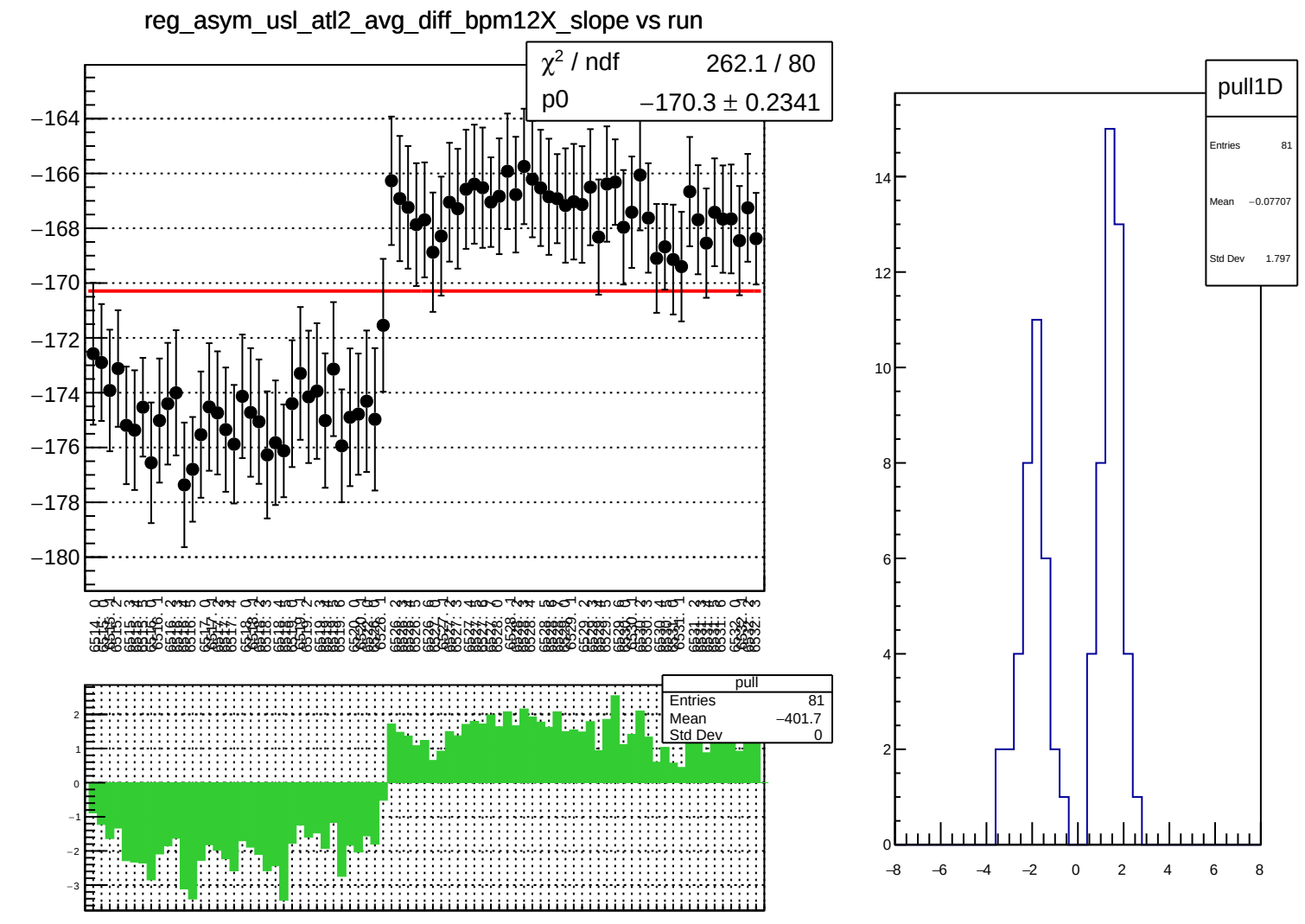

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 28.49 / 80
p0 1.701 ± 5.493
200
100
0
−100
−200
pull
Entries 81
Mean 102
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 81
Mean −0.0979
Std Dev 0.5849
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

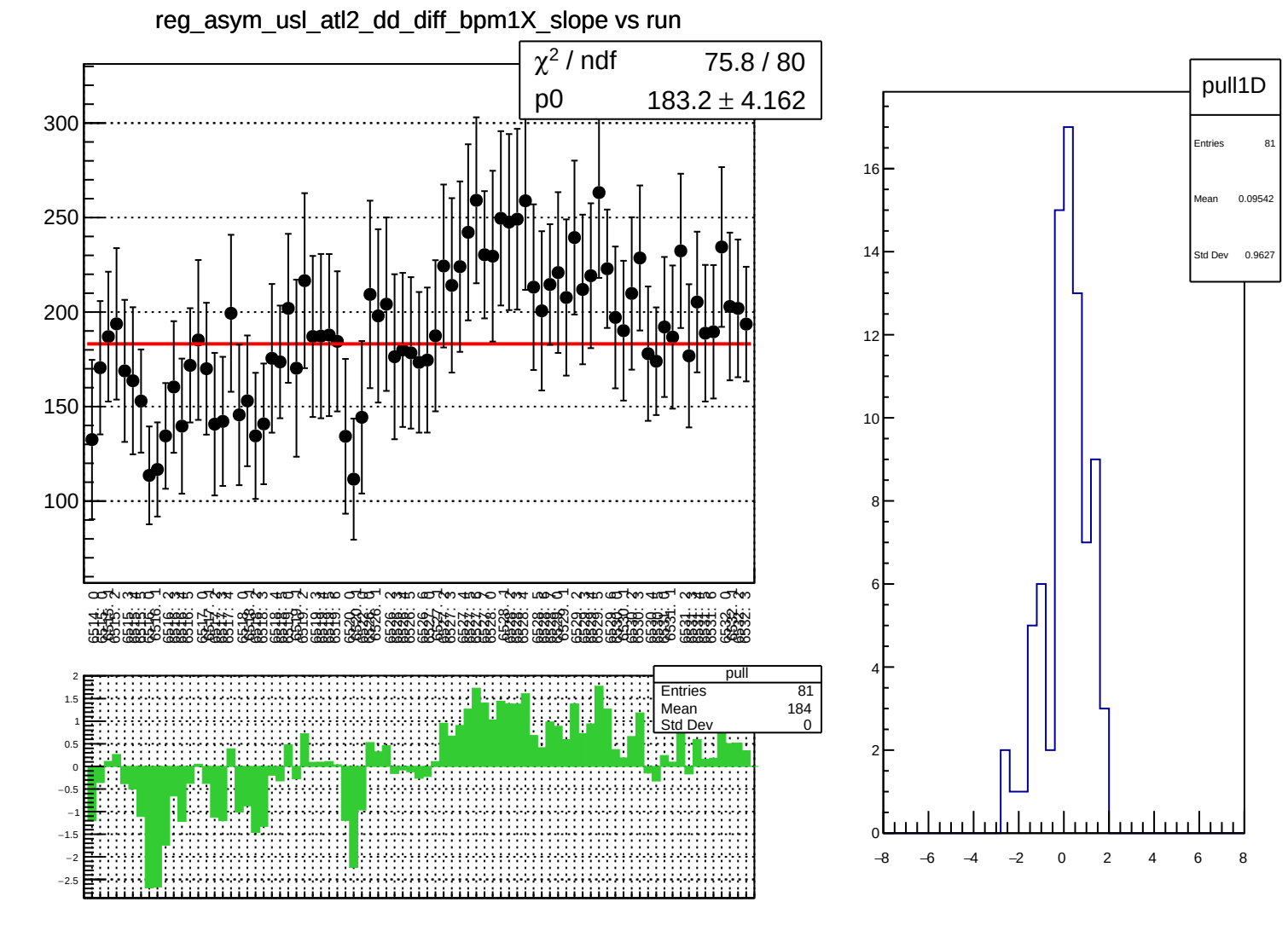

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 49.06 / 80
p0 211.3 ± 5.823
pull
Entries 81
Mean 208.6
Std Dev 0

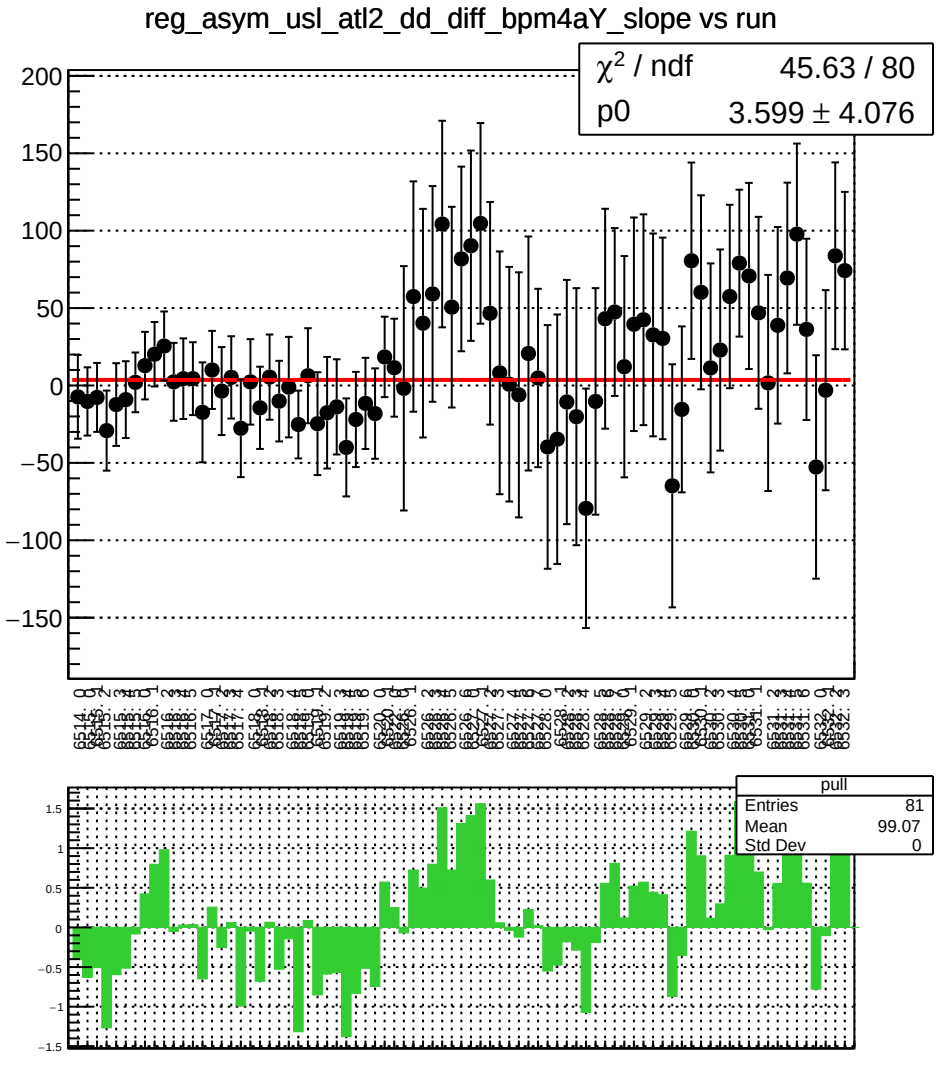

pull1D
Entries 81
Mean 0.06903
Std Dev 0.7752

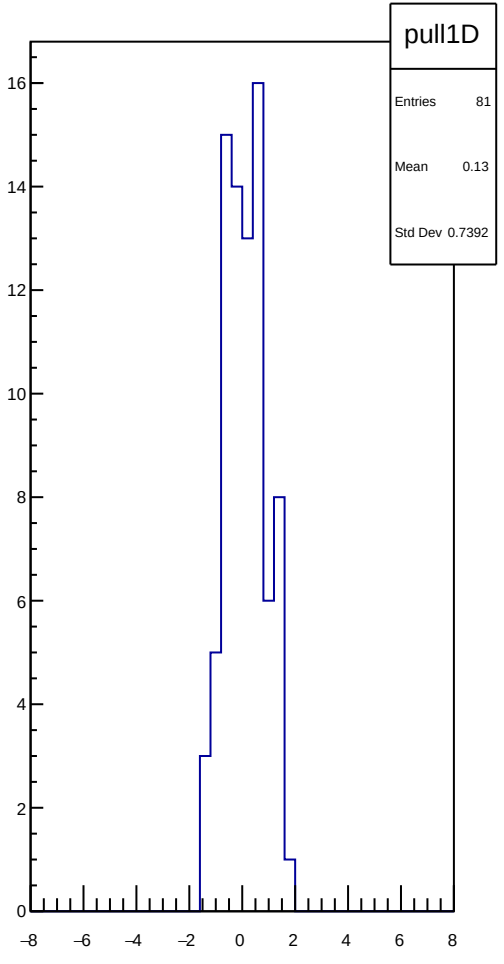

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 25.01 / 80
p0 100.1 ± 6.302
pull
Entries 81
Mean 134.2
Std Dev 0

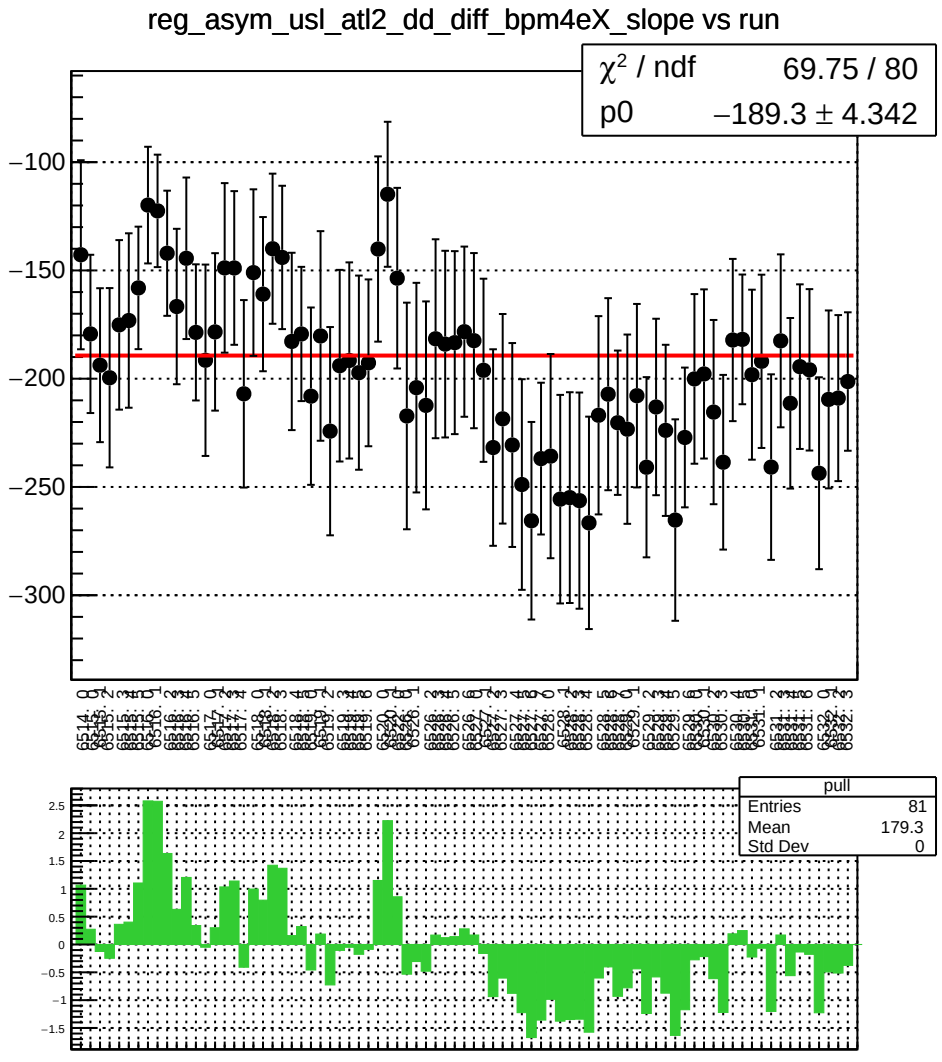

pull1D
Entries 81
Mean 0.04998
Std Dev 0.5535

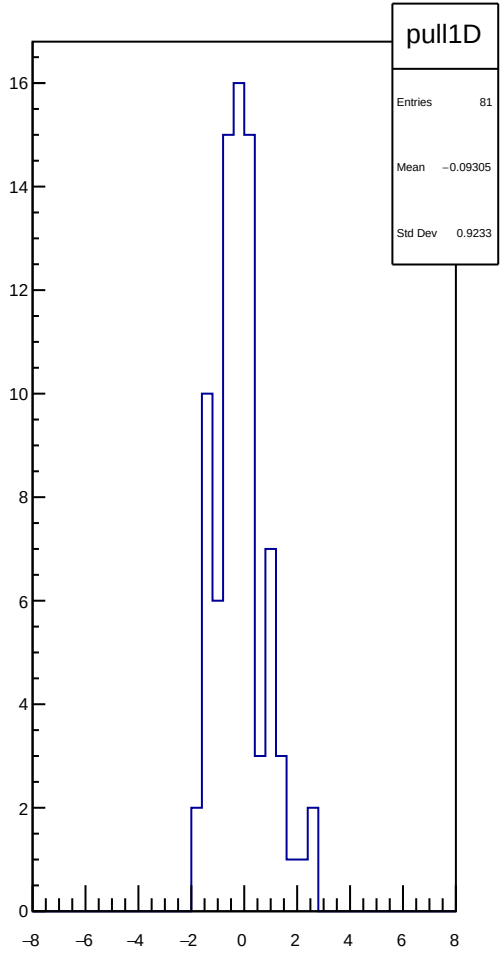

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 262.1 / 80
p0 −170.3 ± 0.2341
pull
Entries 81
Mean −401.7
Std Dev 0
pull1D
Entries 81
Mean −0.07707
Std Dev 1.797

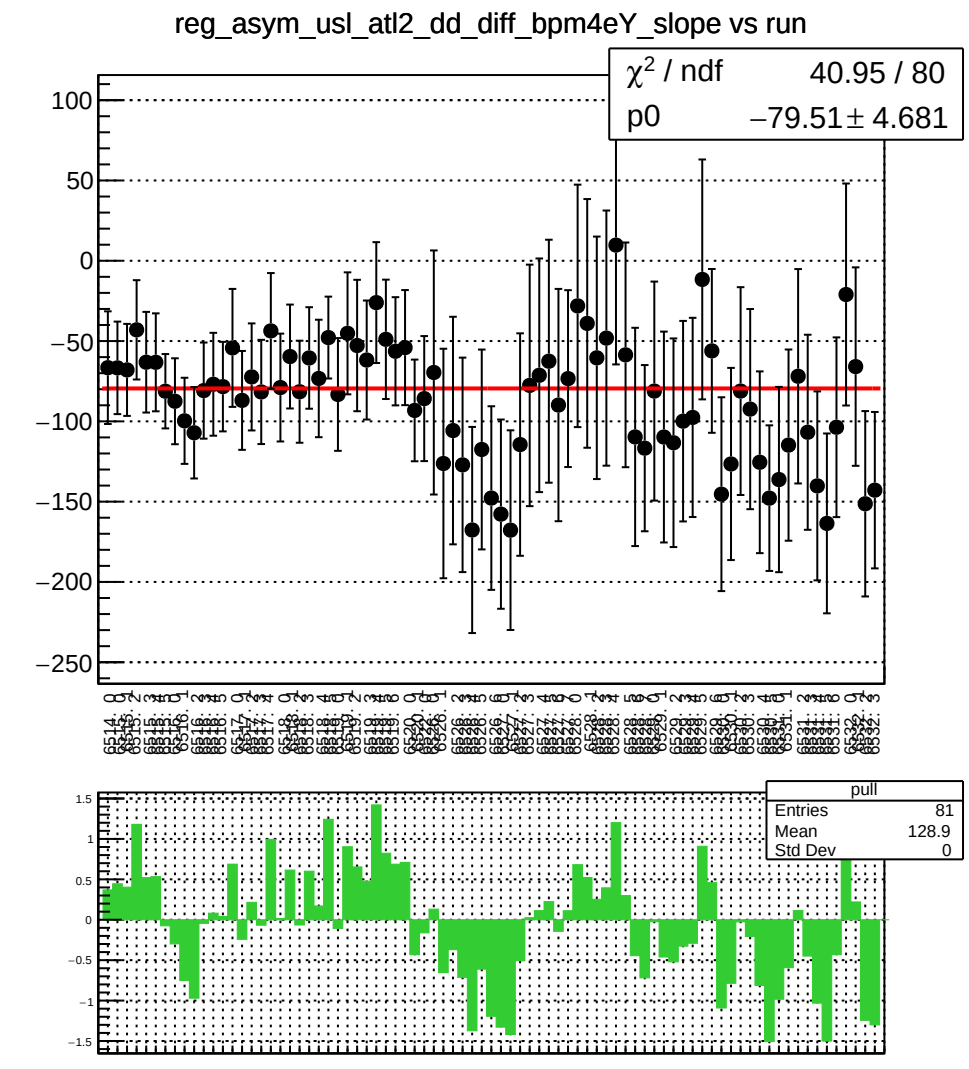

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 75.8 / 80
p0 183.2 ± 4.162
pull
Entries 81
Mean 184
Std Dev 0
pull1D
Entries 81
Mean 0.09542
Std Dev 0.9627

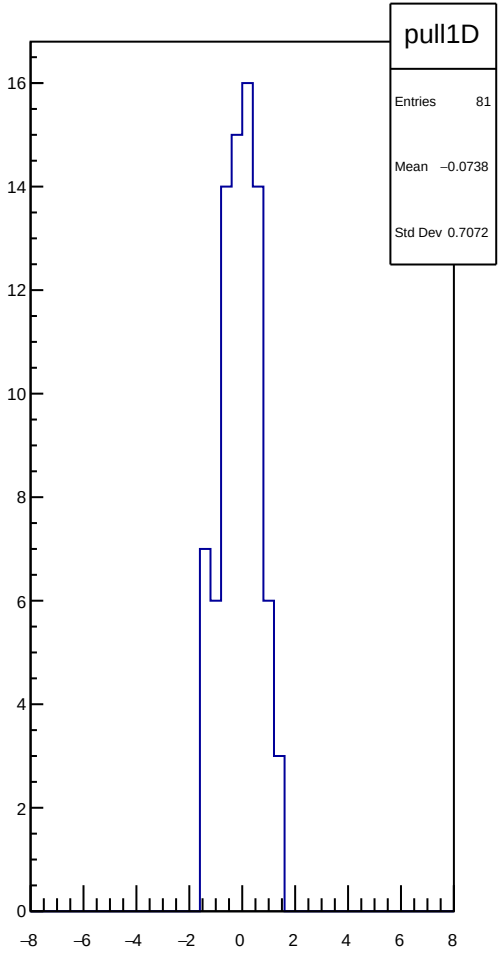

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 45.63 / 80
p0 3.599 ± 4.076
pull
Entries 81
Mean 99.07
Std Dev 0

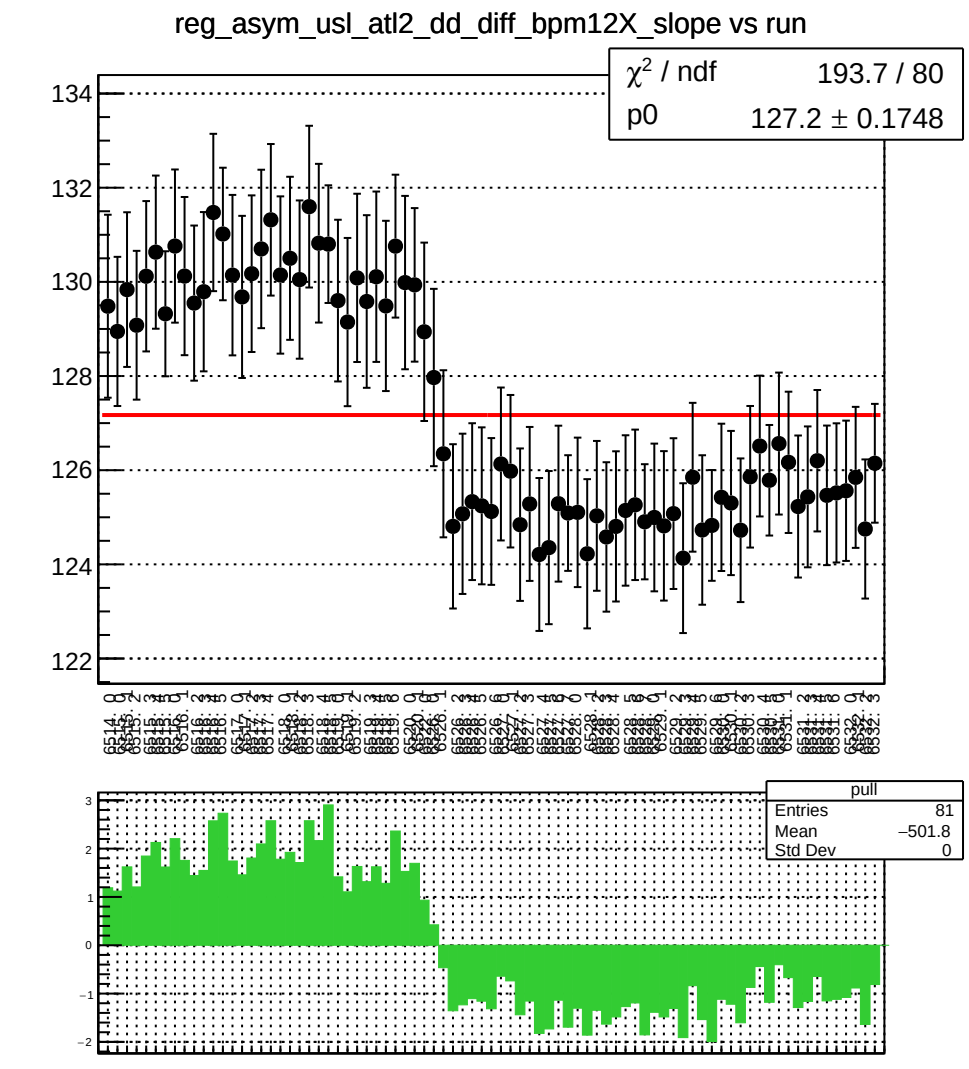

pull1D
Entries 81
Mean 0.13
Std Dev 0.7392

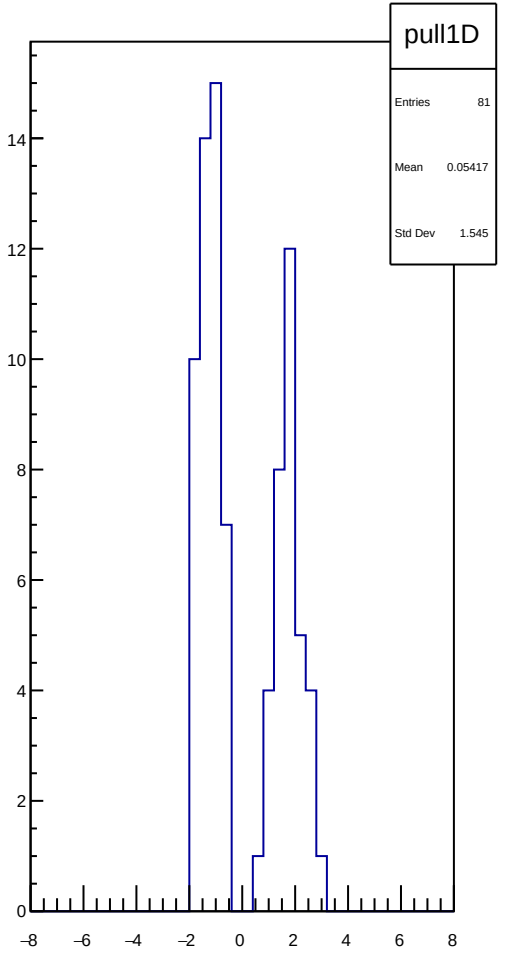

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 69.75 / 80
p0 −189.3 ± 4.342
−100
−150
−200
−250
−300
pull
Entries 81
Mean 179.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

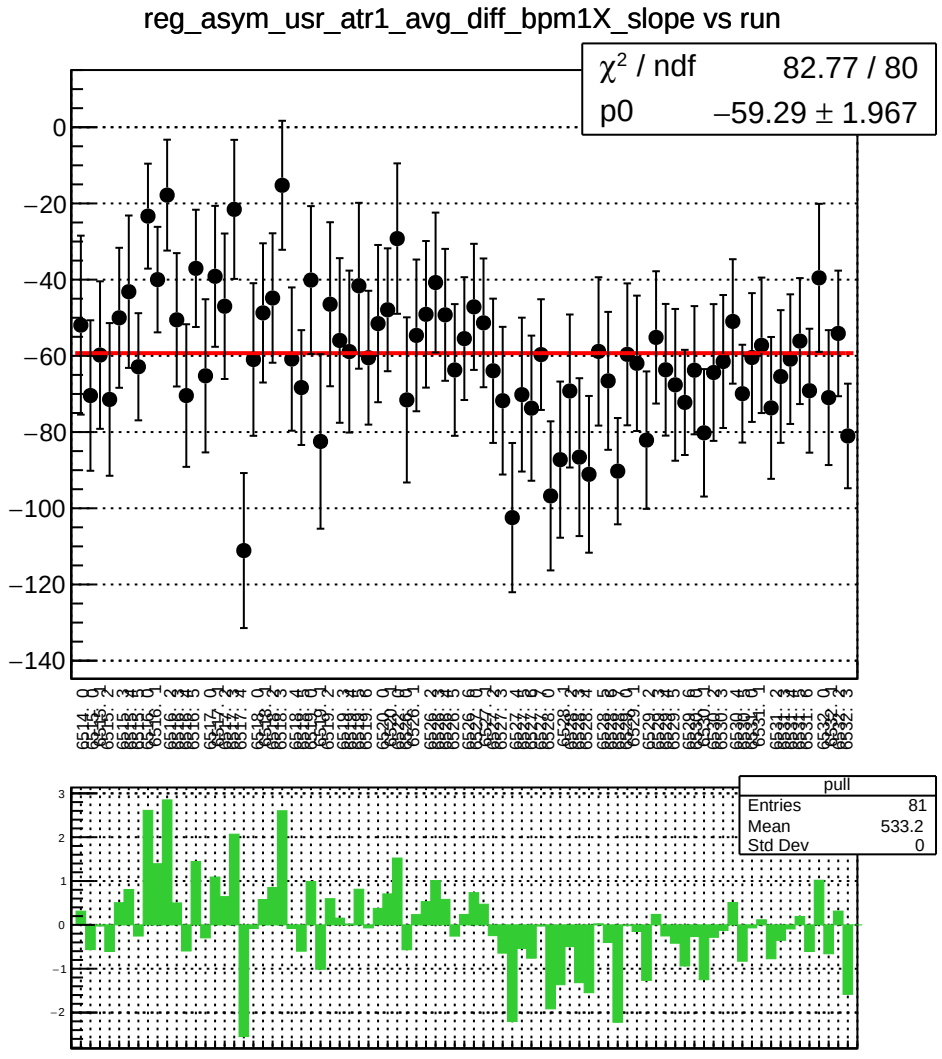

pull1D
Entries 81
Mean −0.09305
Std Dev 0.9233
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

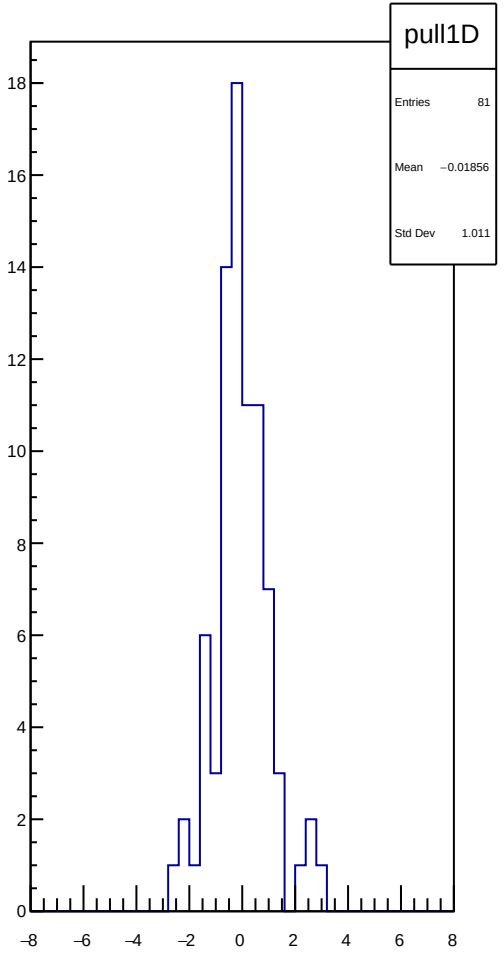

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 40.95 / 80
p0 −79.51 ± 4.681
pull
Entries 81
Mean 128.9
Std Dev 0

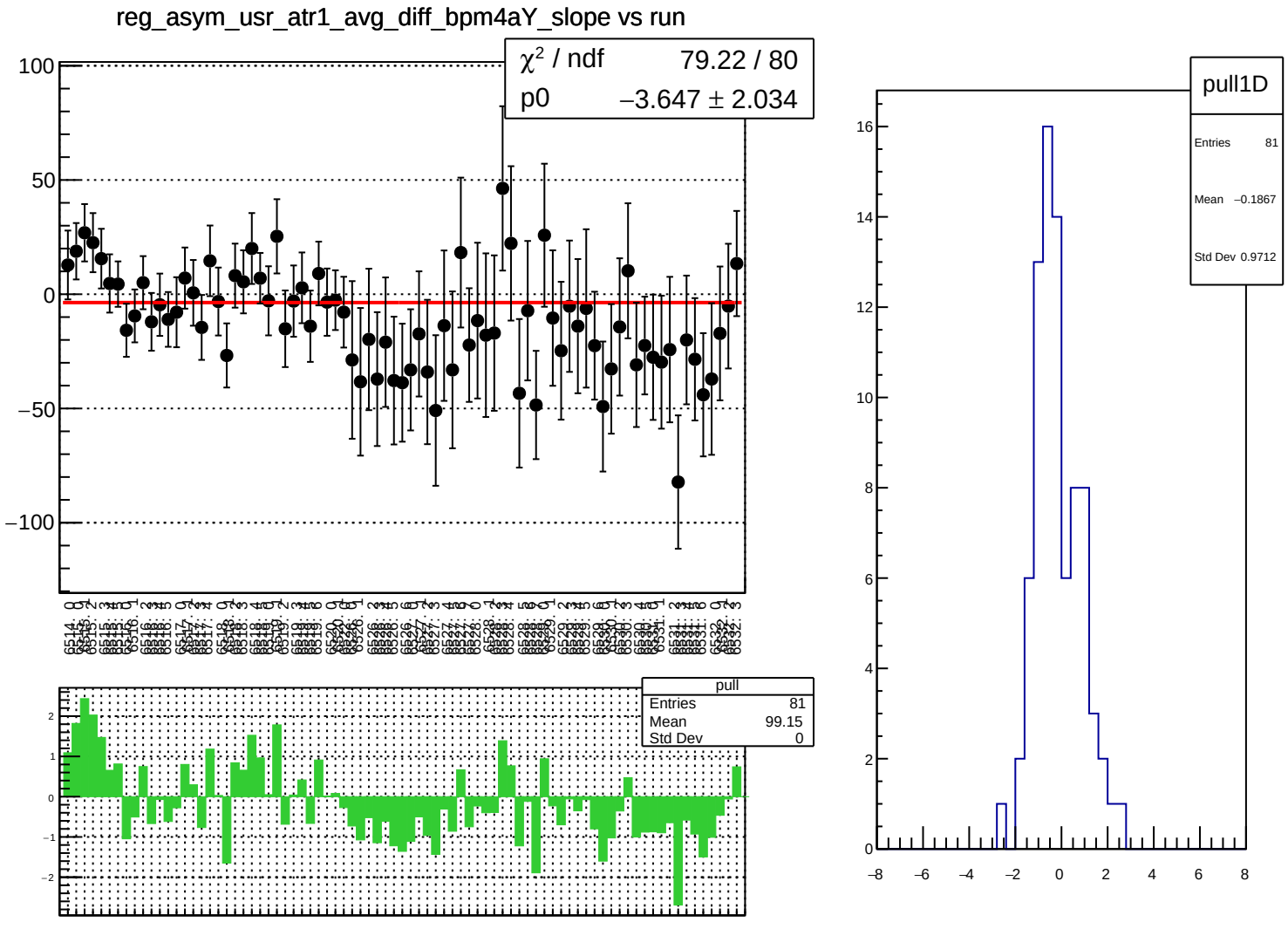

pull1D
Entries 81
Mean −0.0738
Std Dev 0.7072

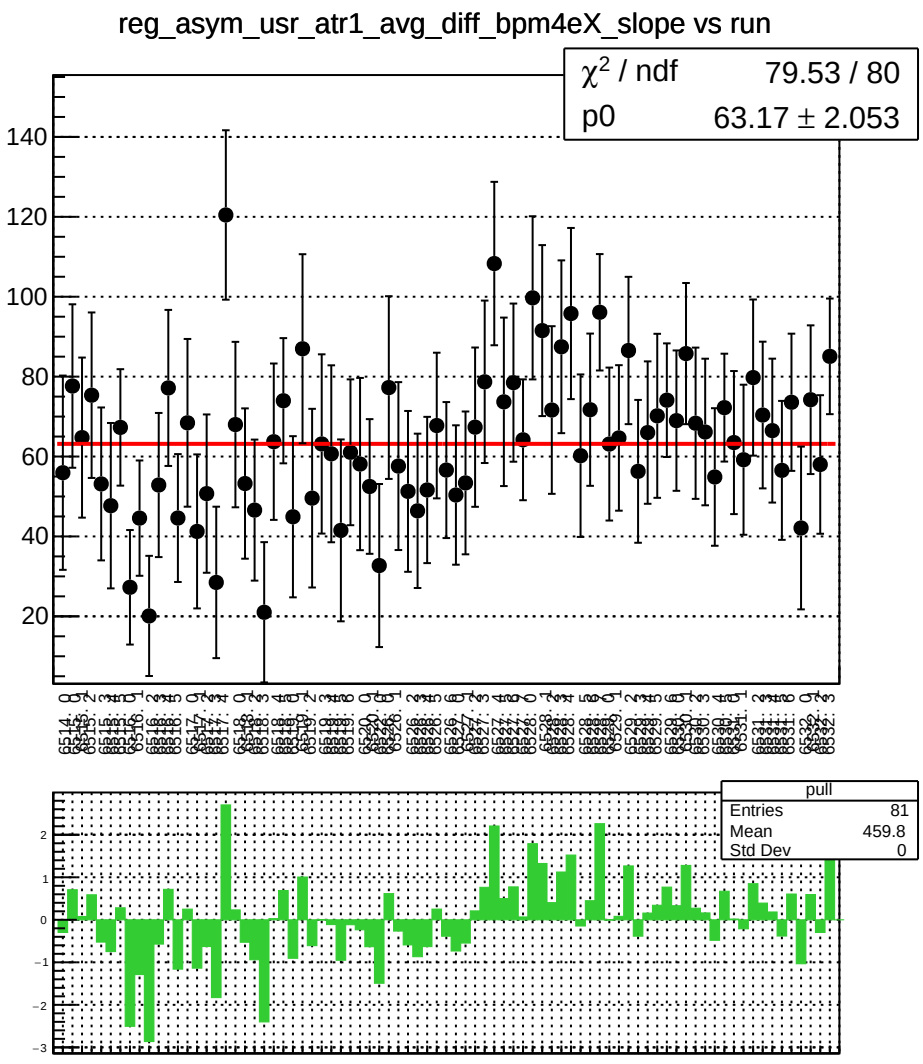

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 193.7 / 80
p0 127.2 ± 0.1748
pull
Entries 81
Mean −501.8
Std Dev 0

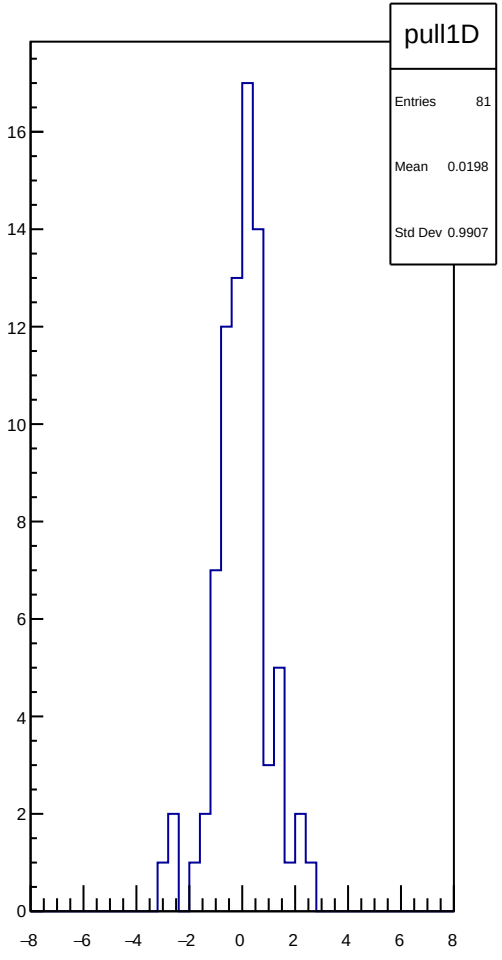

pull1D
Entries 81
Mean 0.05417
Std Dev 1.545

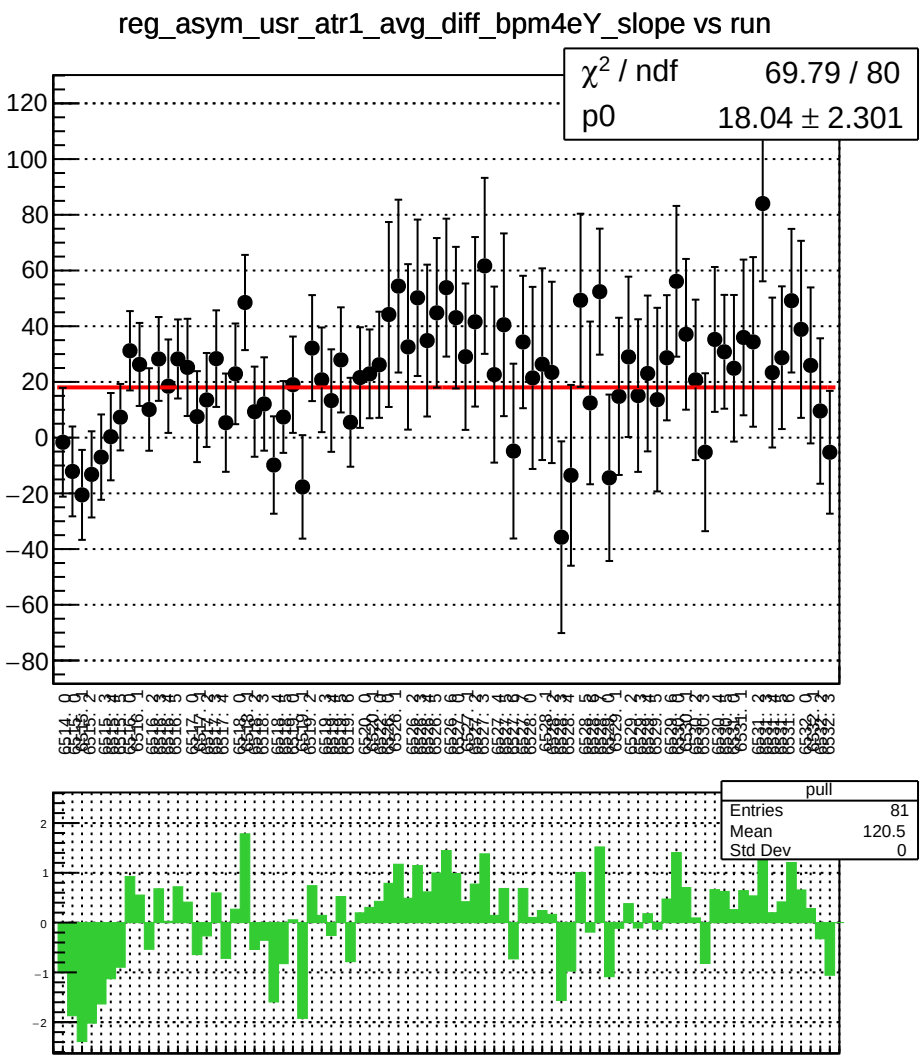

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 82.77 / 80
p0 −59.29 ± 1.967
pull
Entries 81
Mean 533.2
Std Dev 0

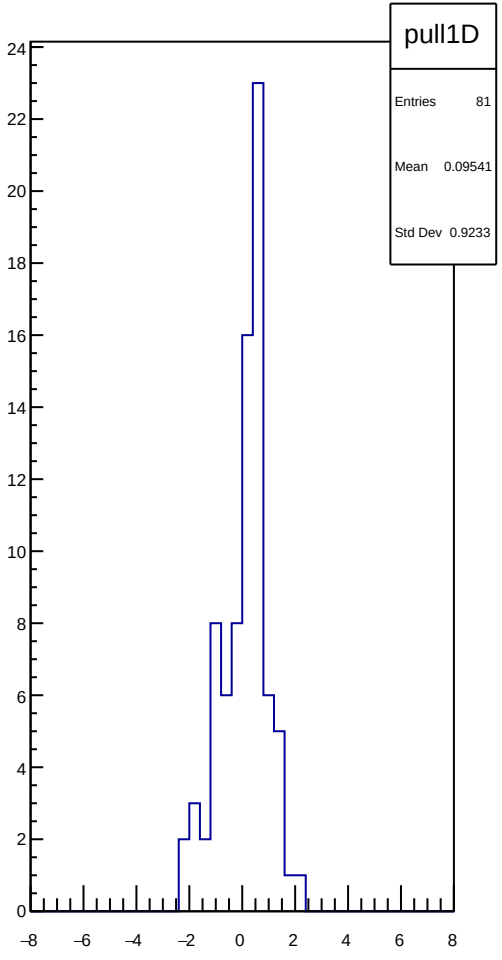

pull1D
Entries 81
Mean −0.01856
Std Dev 1.011

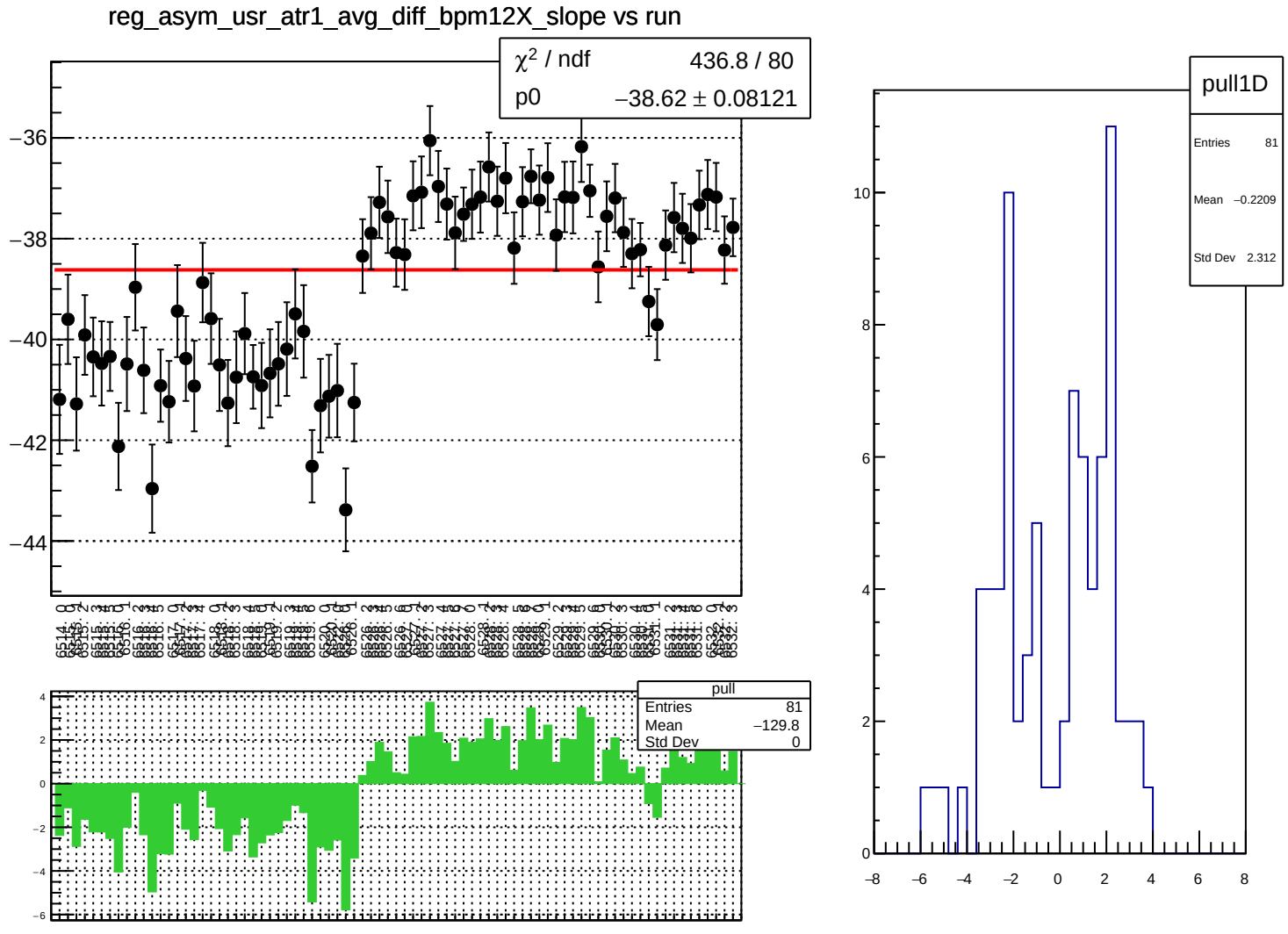

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 79.22 / 80
p0 −3.647 ± 2.034
100
50
0
−50
−100
pull
Entries 81
Mean 99.15
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 81
Mean −0.1867
Std Dev 0.9712
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

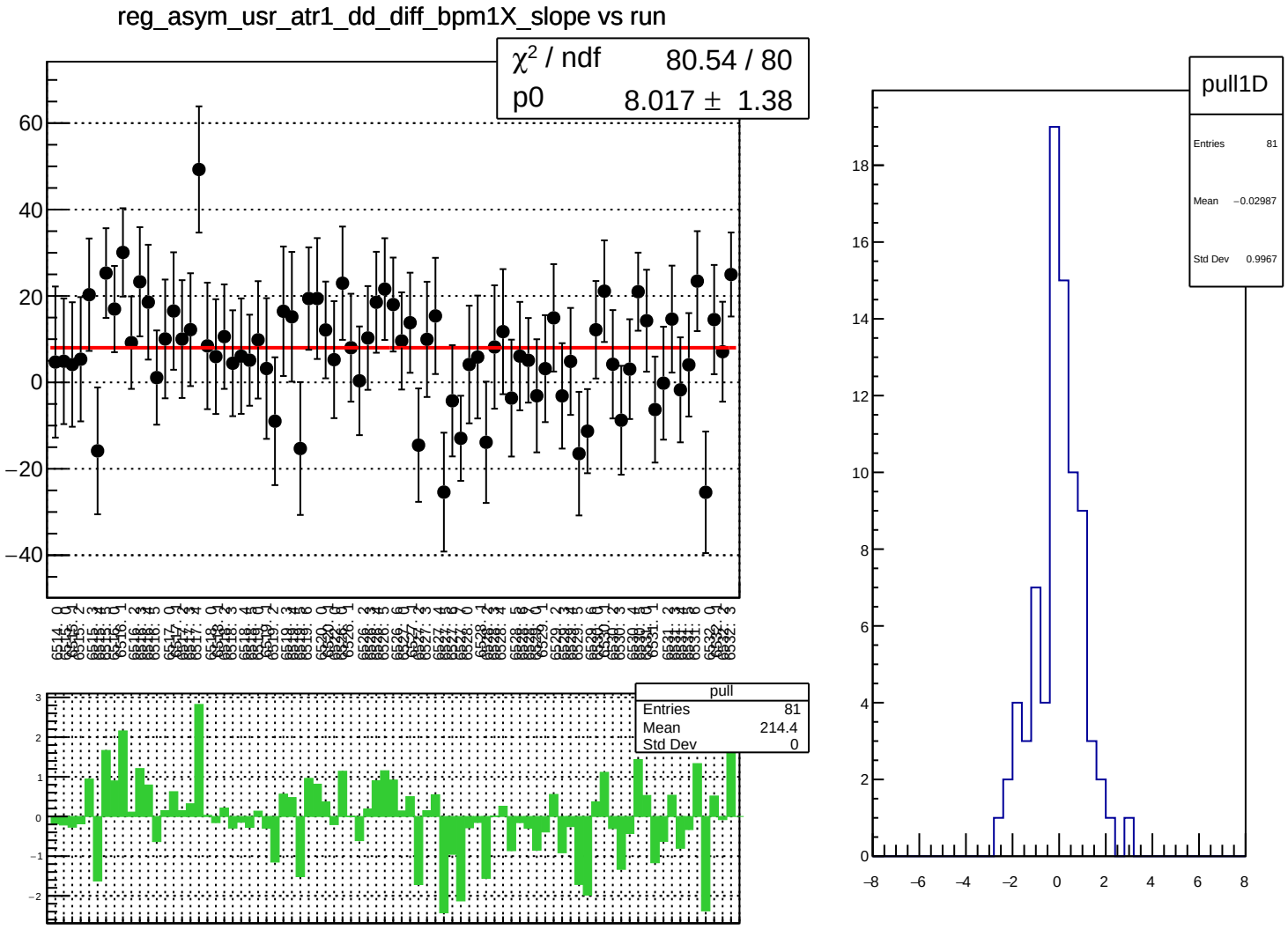

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 79.53 / 80
p0 63.17 ± 2.053
pull
Entries 81
Mean 459.8
Std Dev 0

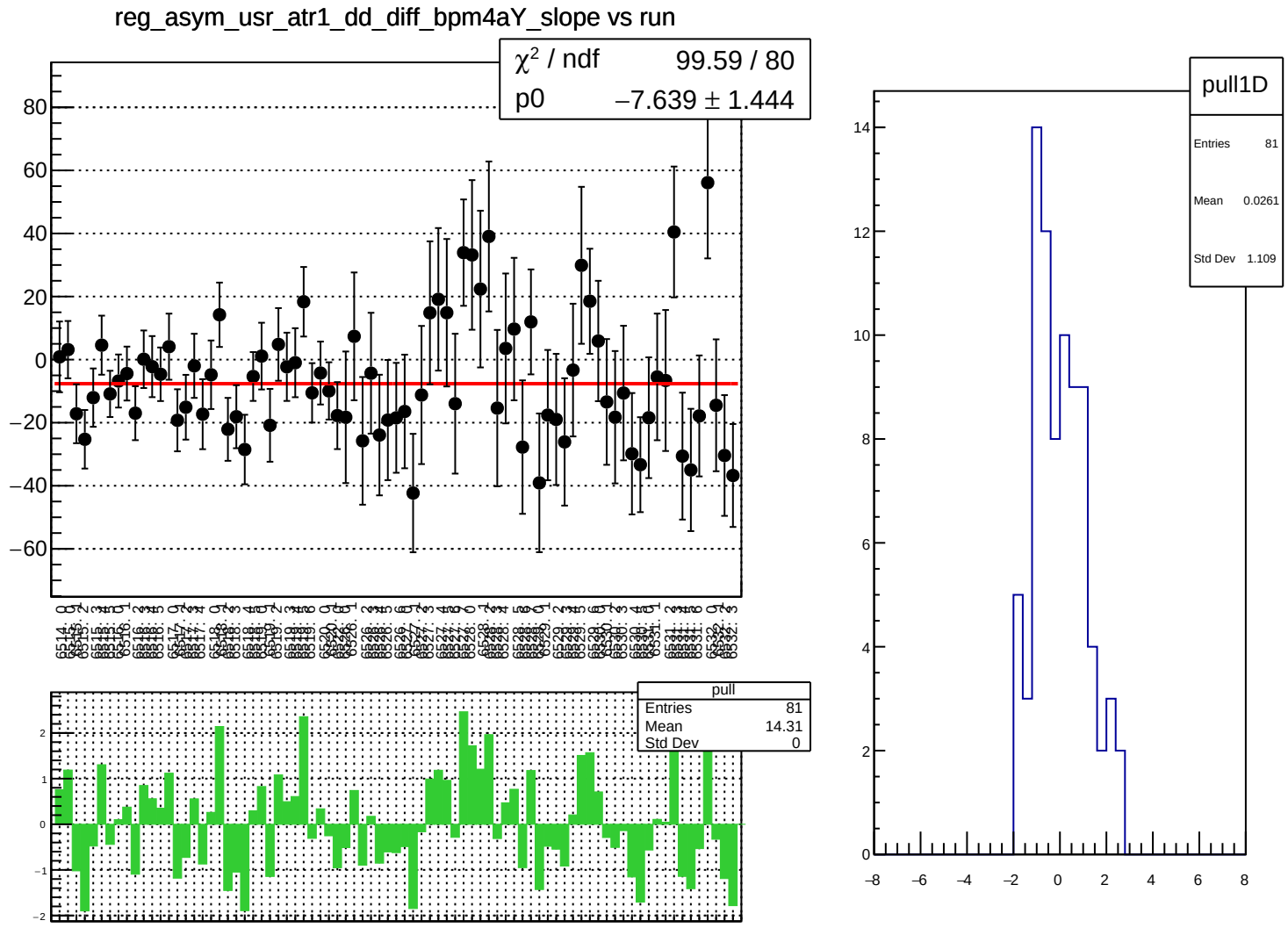

pull1D
Entries 81
Mean 0.0198
Std Dev 0.9907

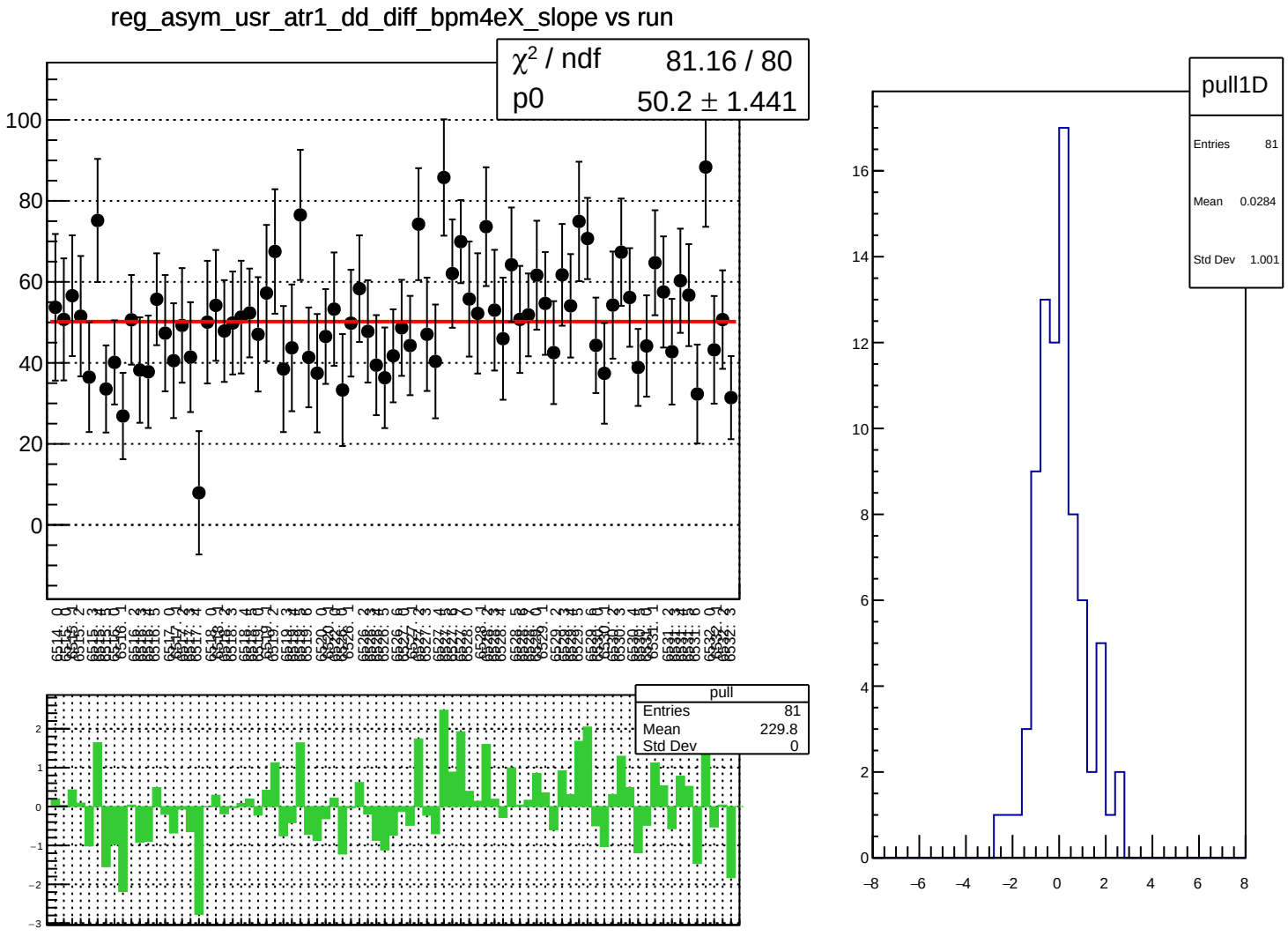

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 69.79 / 80
p0 18.04 ± 2.301
pull
Entries 81
Mean 120.5
Std Dev 0

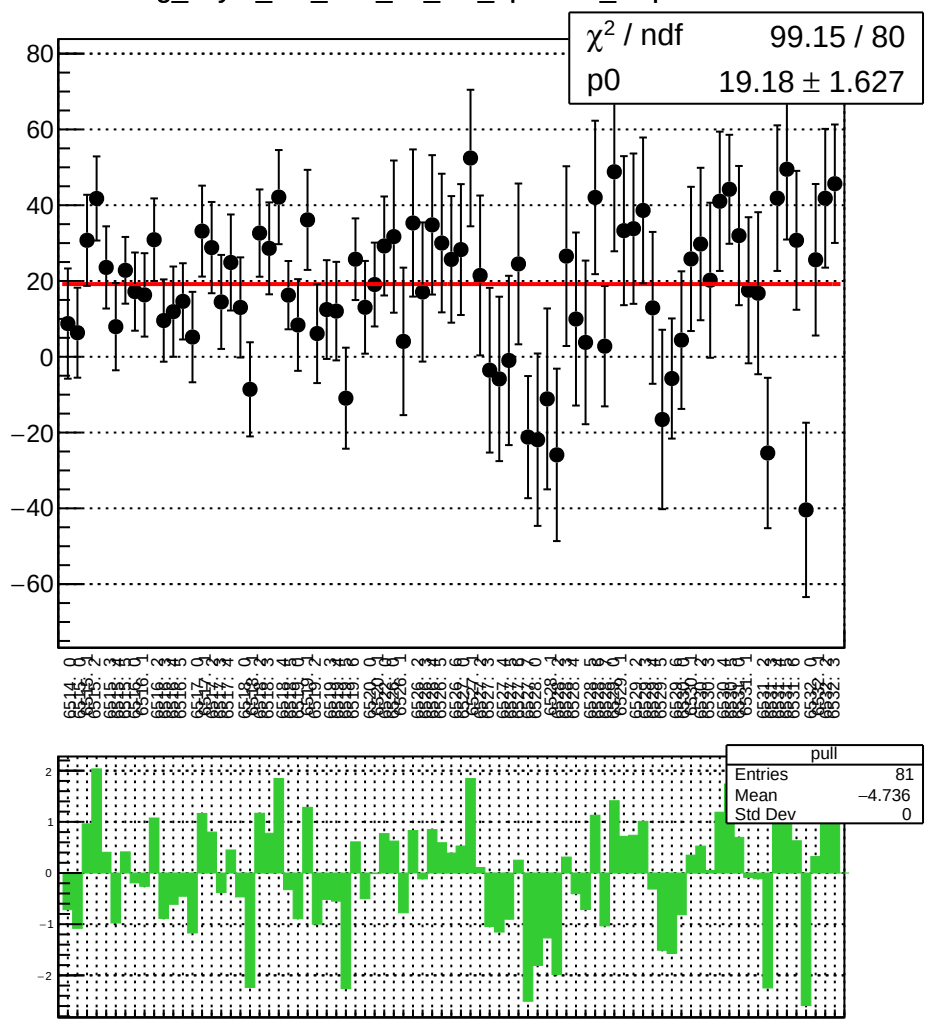

pull1D
Entries 81
Mean 0.09541
Std Dev 0.9233

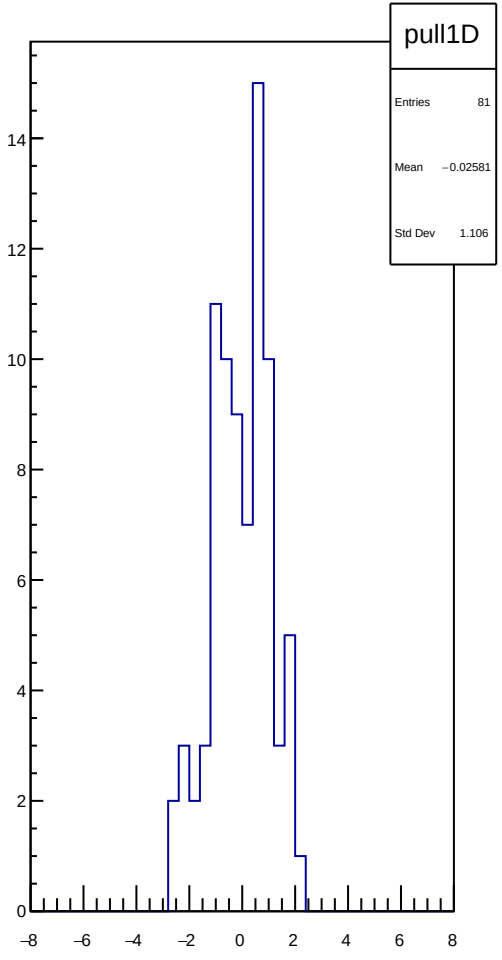

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 436.8 / 80
p0 −38.62 ± 0.08121
−36
−38
−40
−42
−44
pull
Entries 81
Mean −129.8
Std Dev 0
pull1D
Entries 81
Mean −0.2209
Std Dev 2.312

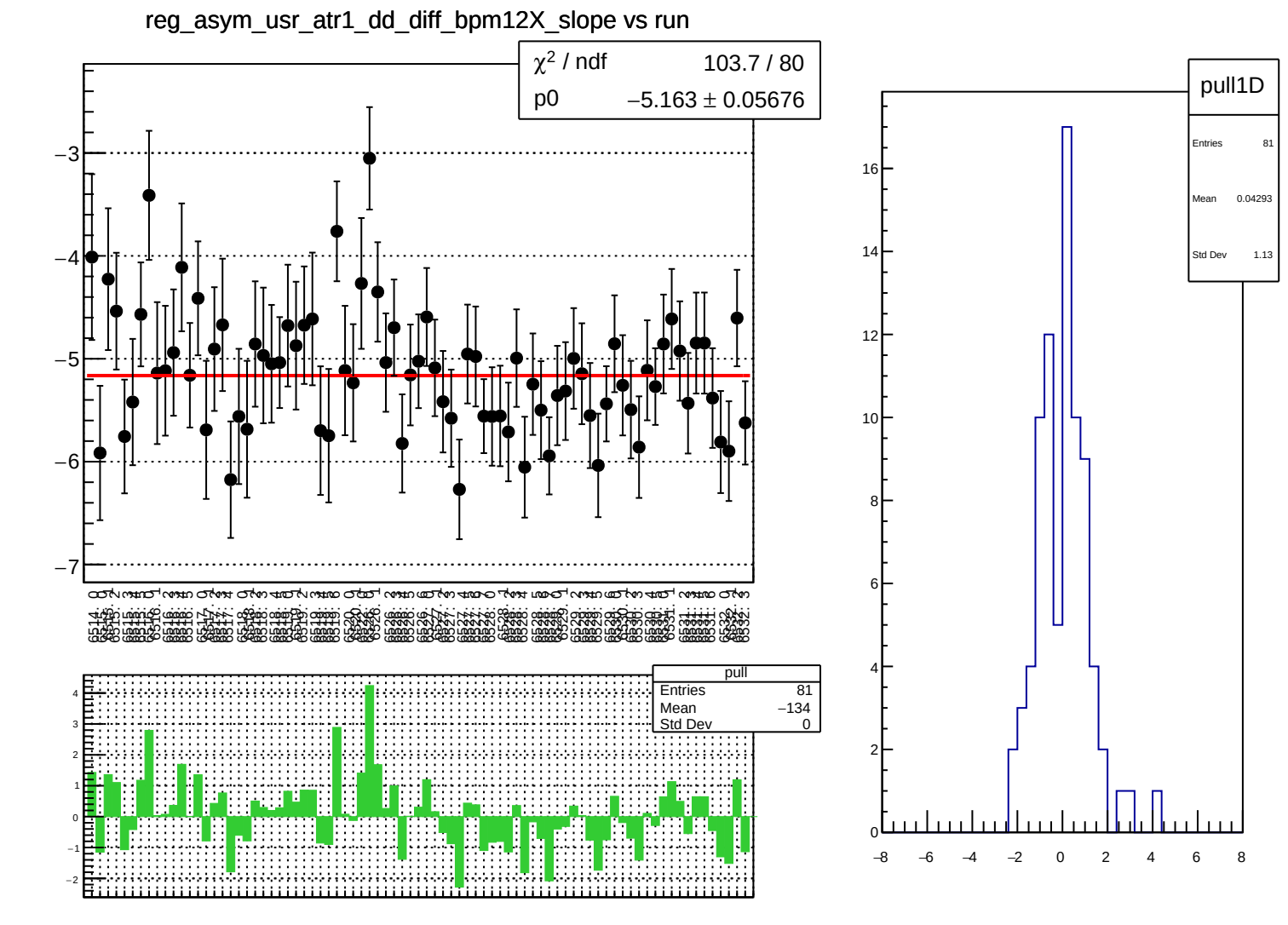

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 80.54 / 80
p0 8.017 ± 1.38
pull
Entries 81
Mean 214.4
Std Dev 0
pull1D
Entries 81
Mean −0.02987
Std Dev 0.9967

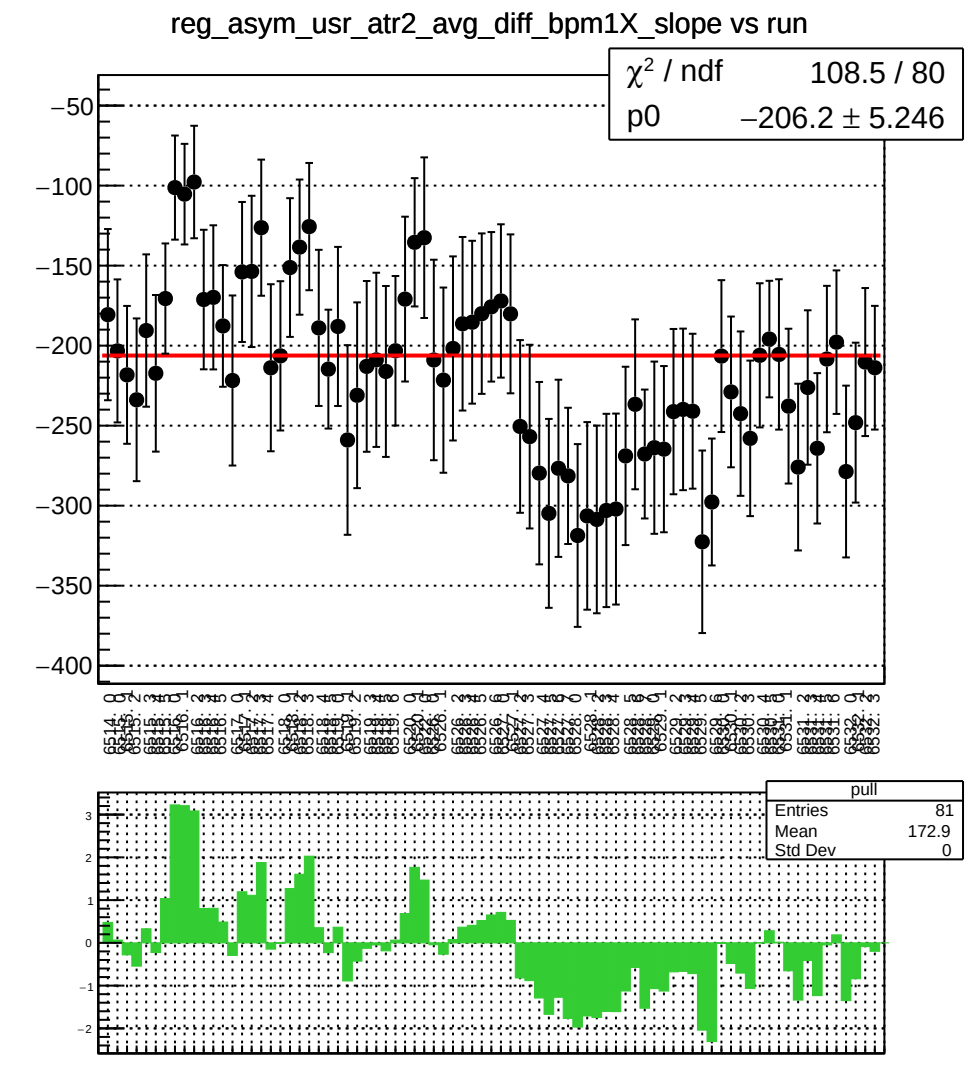

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 99.59 / 80
p0 −7.639 ± 1.444
pull
Entries 81
Mean 14.31
Std Dev 0
pull1D
Entries 81
Mean 0.0261
Std Dev 1.109

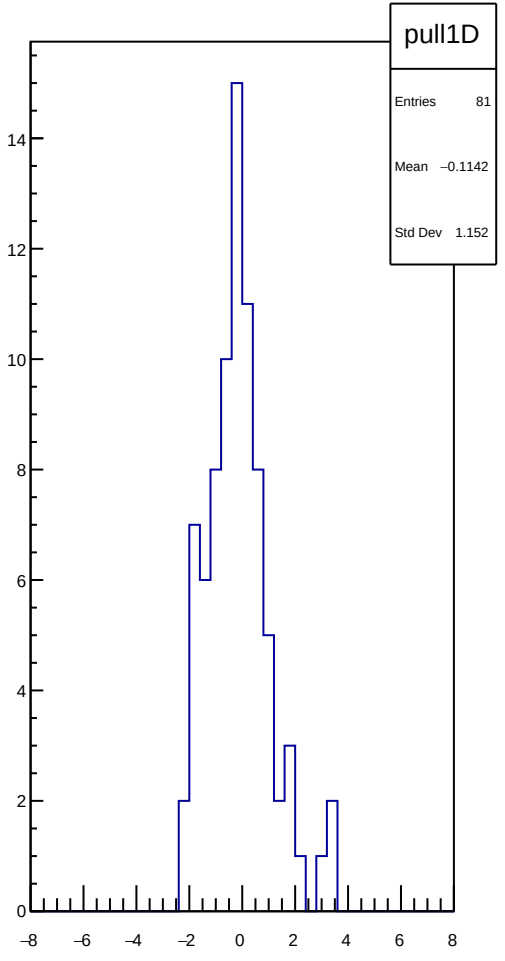

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 81.16 / 80
p0 50.2 ± 1.441
pull
Entries 81
Mean 229.8
Std Dev 0
pull1D
Entries 81
Mean 0.0284
Std Dev 1.001

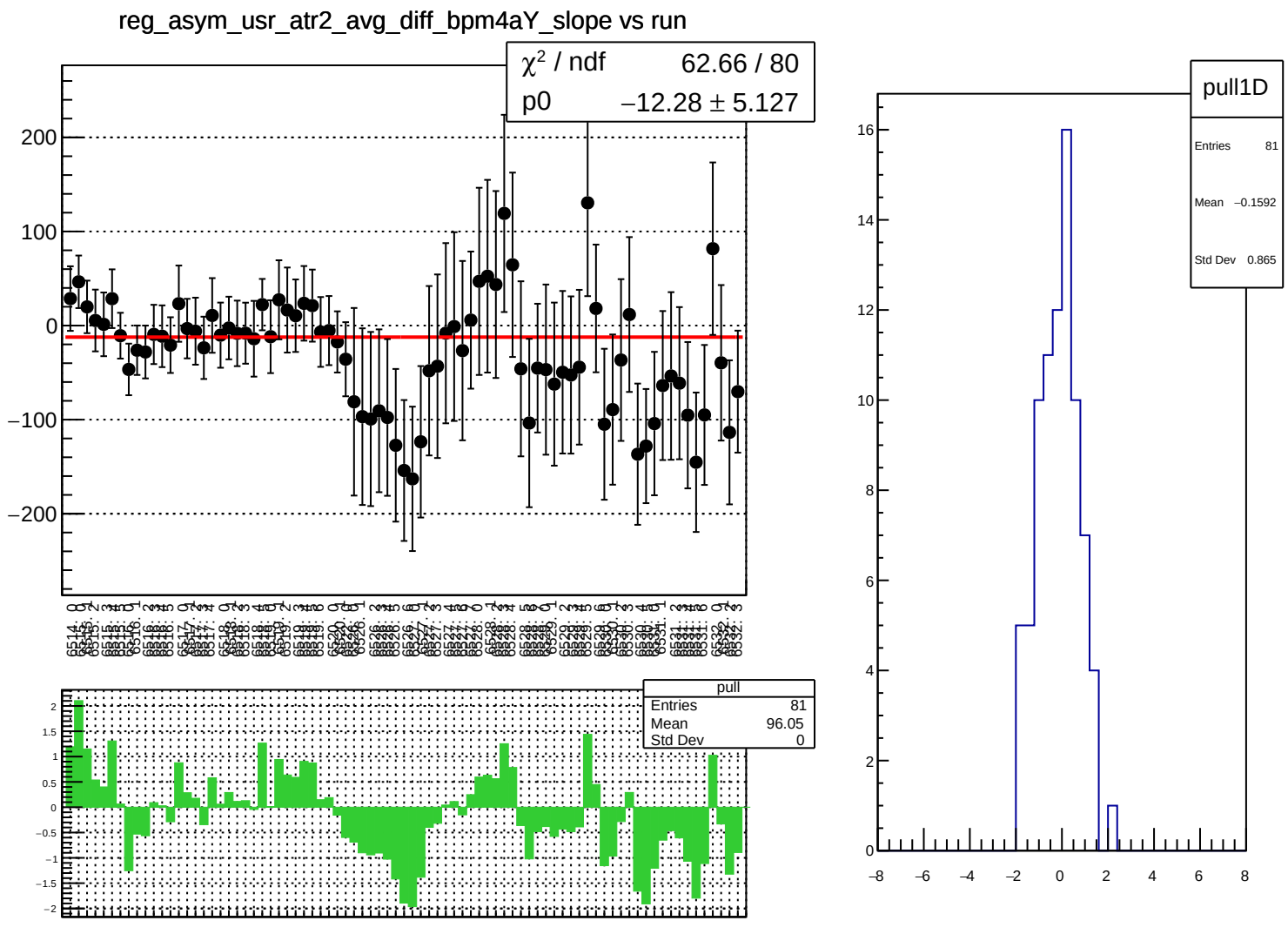

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 99.15 / 80
p0 19.18 ± 1.627
pull
Entries 81
Mean −4.736
Std Dev 0

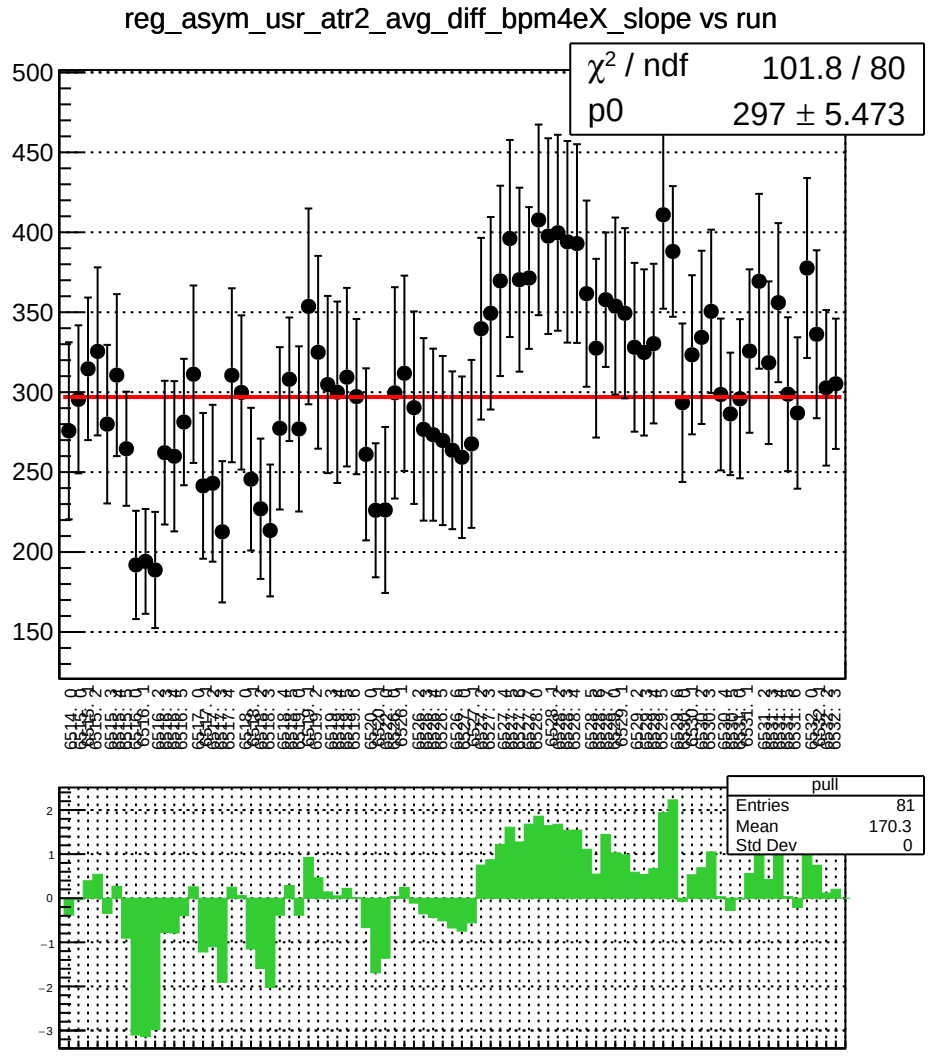

pull1D
Entries 81
Mean −0.02581
Std Dev 1.106

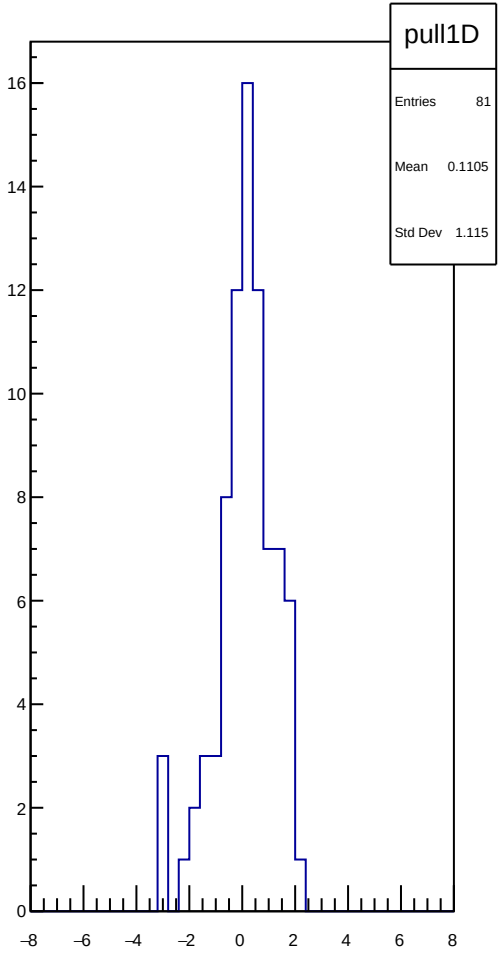

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 103.7 / 80
p0 −5.163 ± 0.05676
pull
Entries 81
Mean −134
Std Dev 0
pull1D
Entries 81
Mean 0.04293
Std Dev 1.13

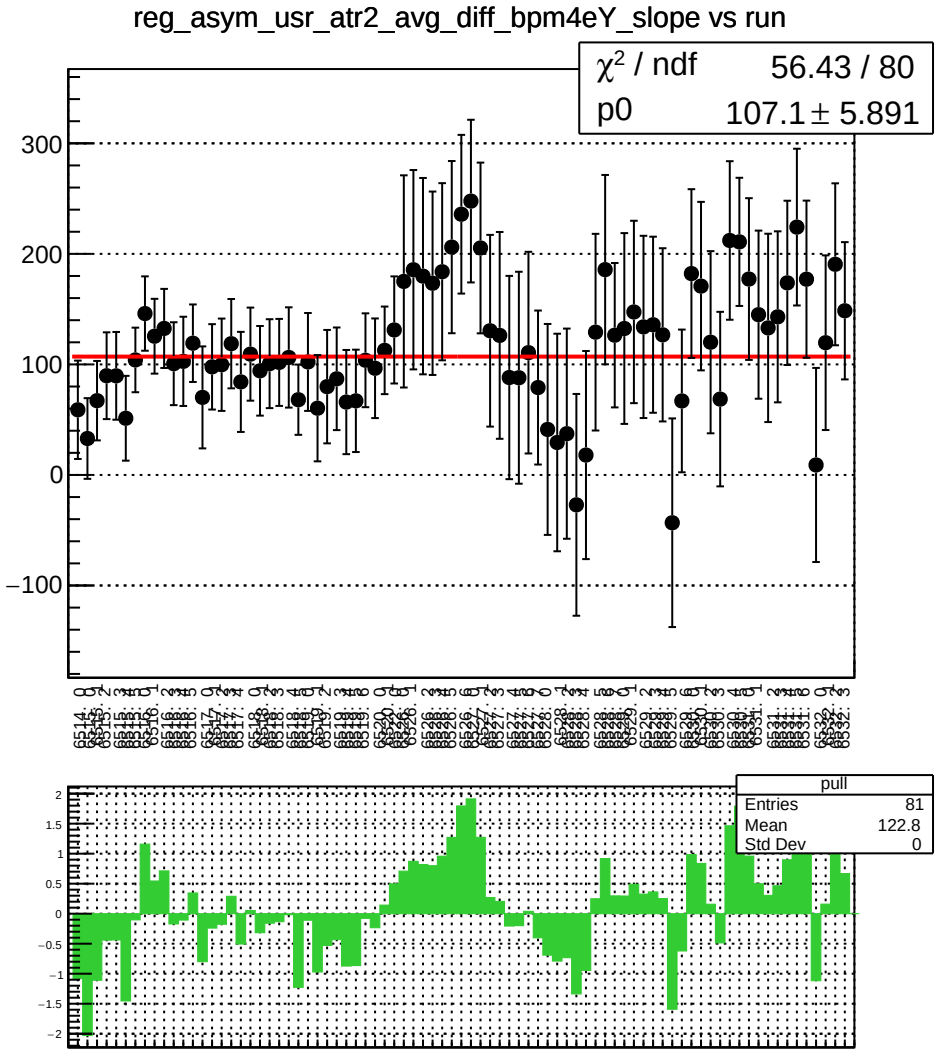

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 108.5 / 80
p0 −206.2 ± 5.246
pull
Entries 81
Mean 172.9
Std Dev 0

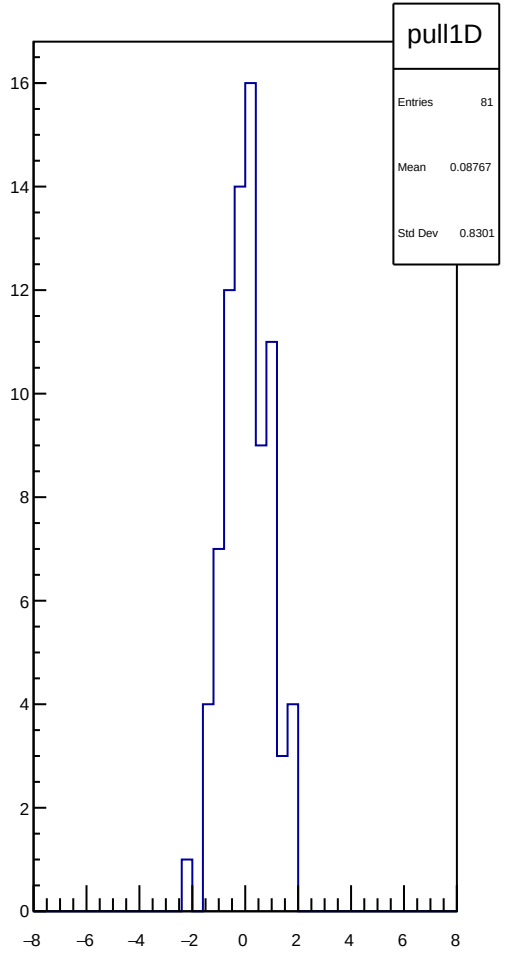

pull1D
Entries 81
Mean −0.1142
Std Dev 1.152

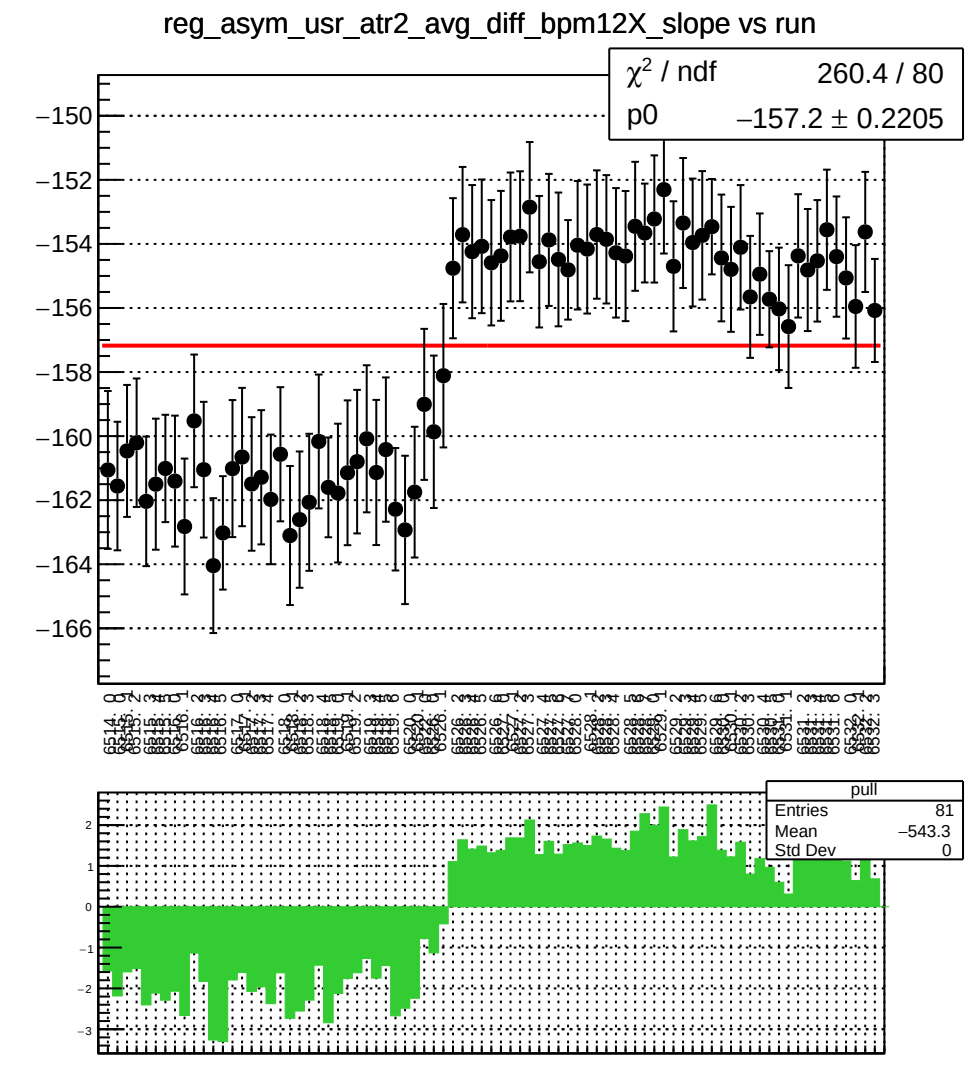

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 62.66 / 80
p0 −12.28 ± 5.127
200
100
0
−100
−200
pull
Entries 81
Mean 96.05
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 81
Mean −0.1592
Std Dev 0.865
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

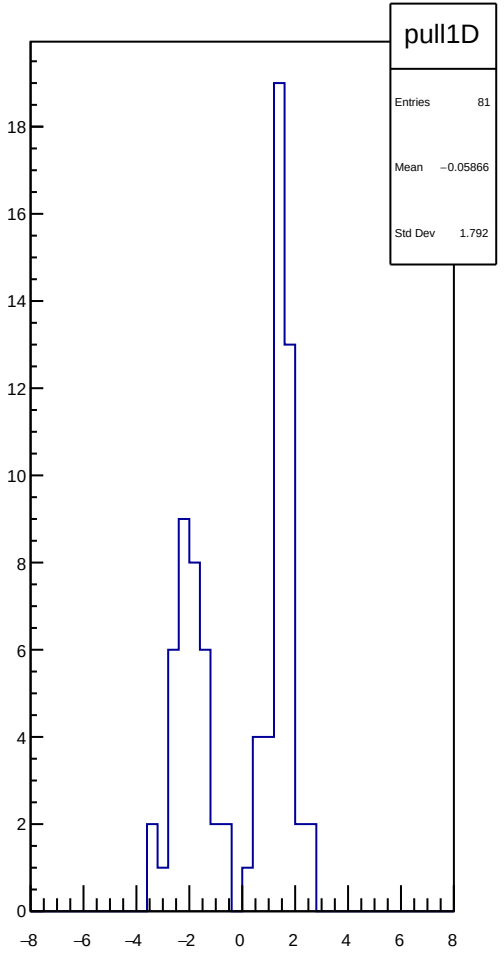

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 101.8 / 80
p0 297 ± 5.473
pull
Entries 81
Mean 170.3
Std Dev 0

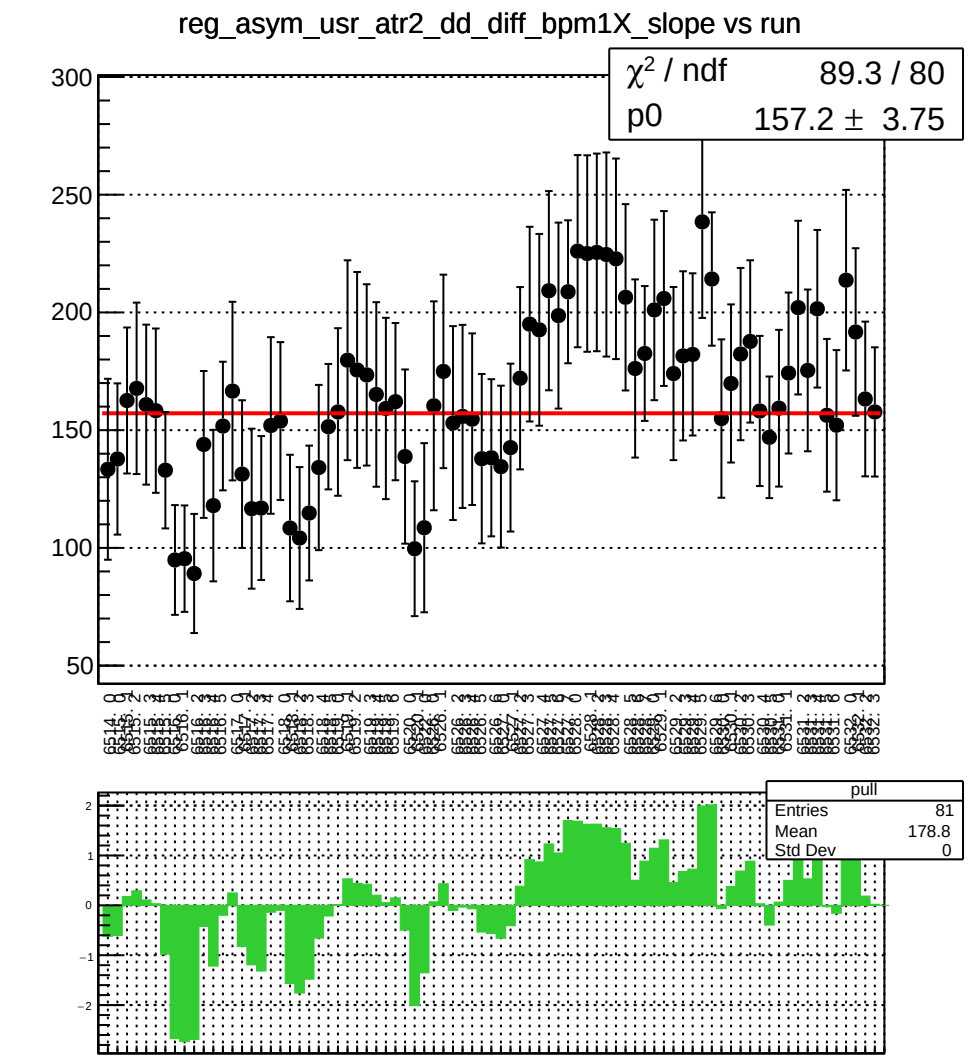

pull1D
Entries 81
Mean 0.1105
Std Dev 1.115

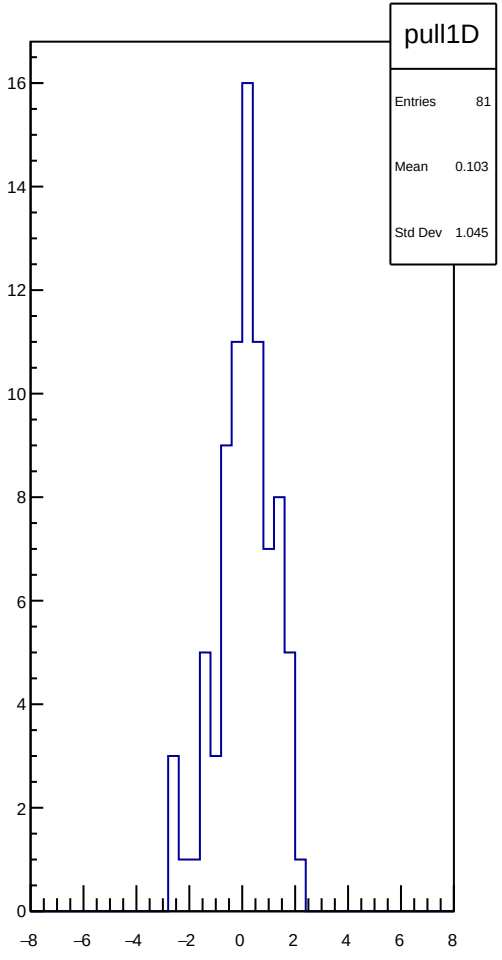

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 56.43 / 80
p0 107.1 ± 5.891
300
200
100
0
−100
pull
Entries 81
Mean 122.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

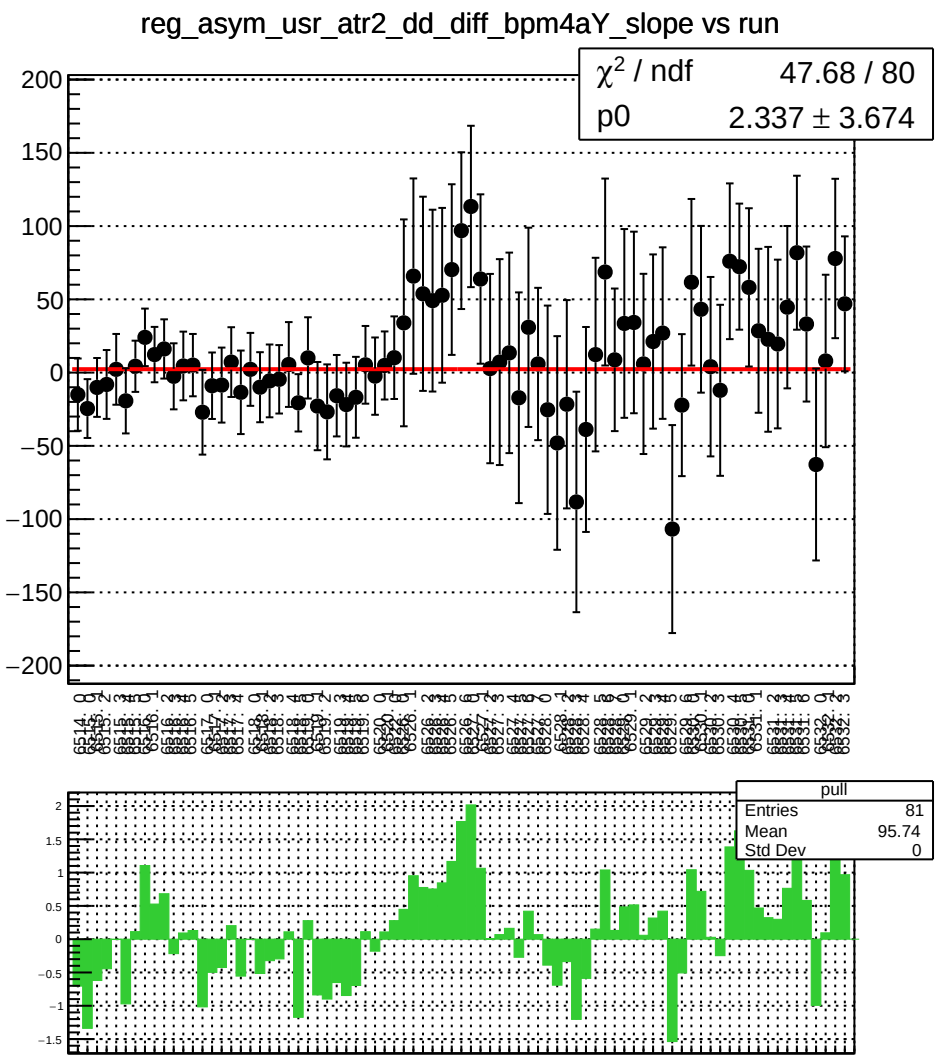

pull1D
Entries 81
Mean 0.08767
Std Dev 0.8301
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

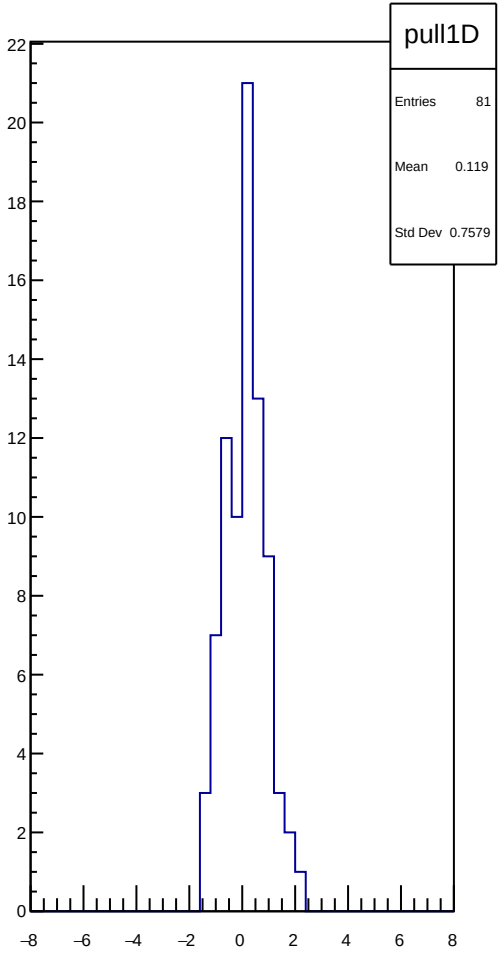

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 260.4 / 80
p0 −157.2 ± 0.2205
pull
Entries 81
Mean −543.3
Std Dev 0

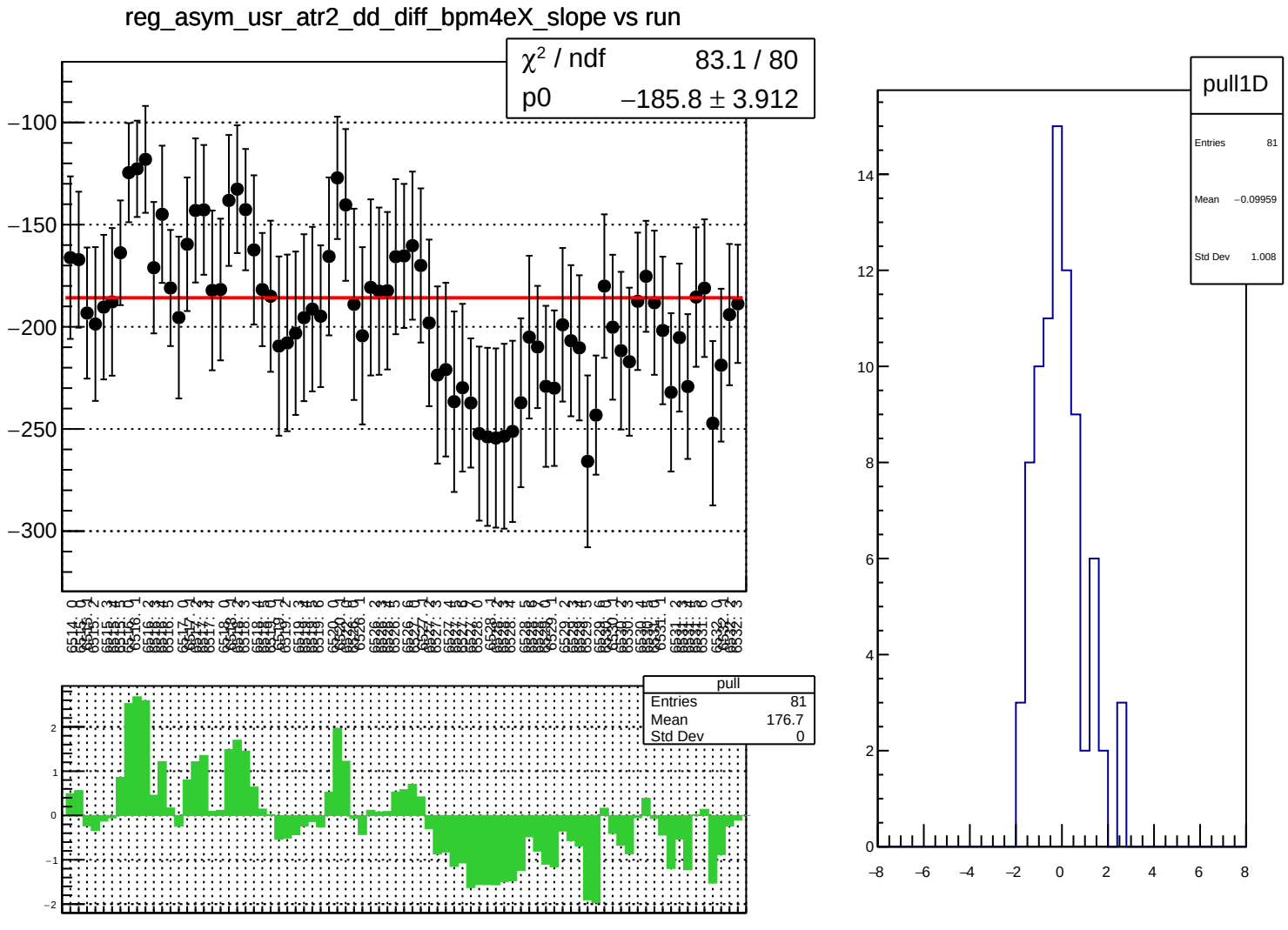

pull1D
Entries 81
Mean −0.05866
Std Dev 1.792

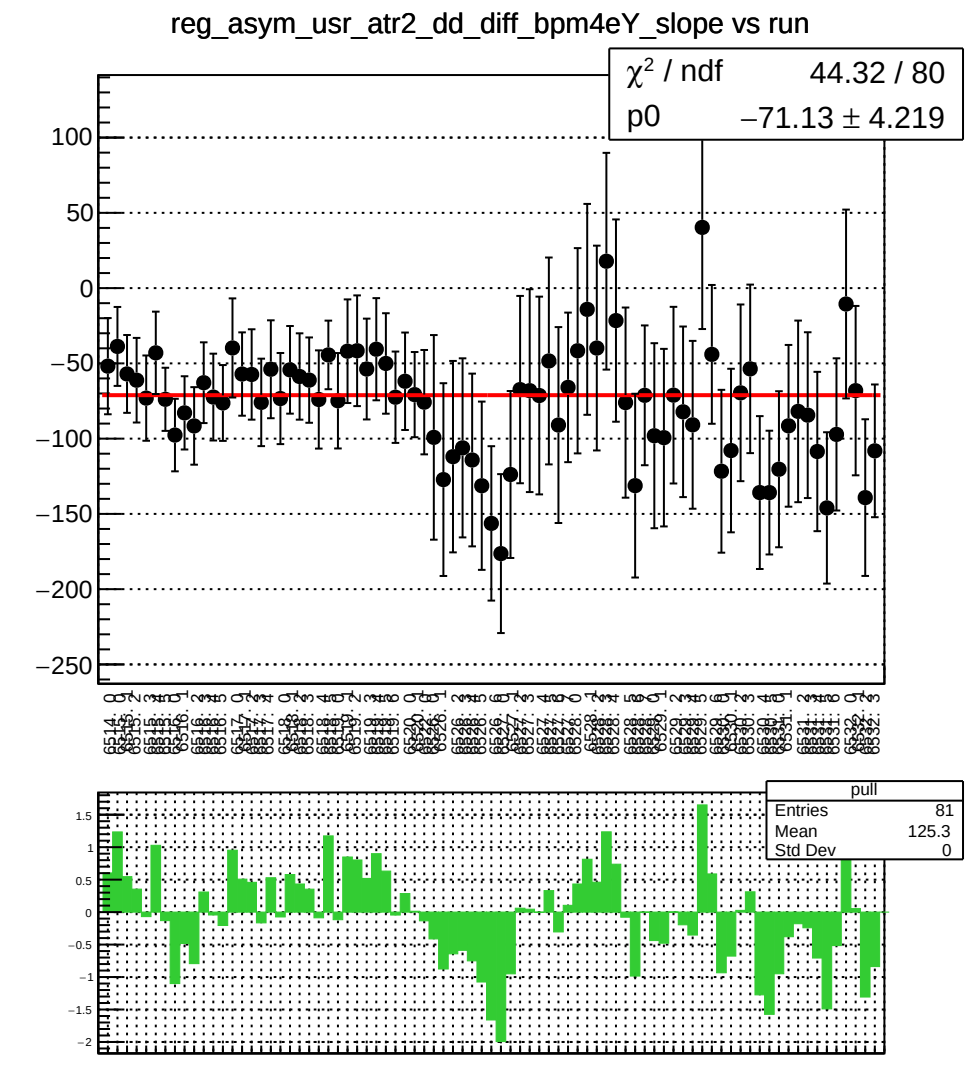

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 89.3 / 80
p0 157.2 ± 3.75
pull
Entries 81
Mean 178.8
Std Dev 0

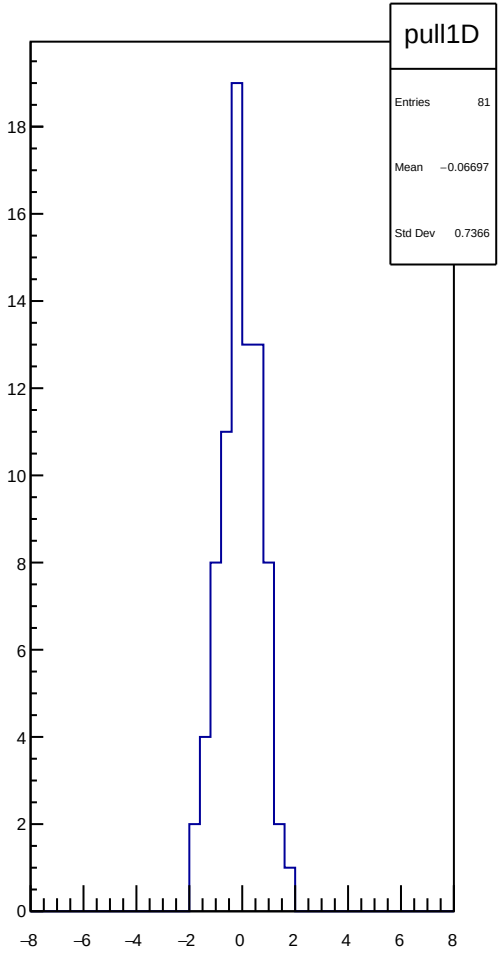

pull1D
Entries 81
Mean 0.103
Std Dev 1.045

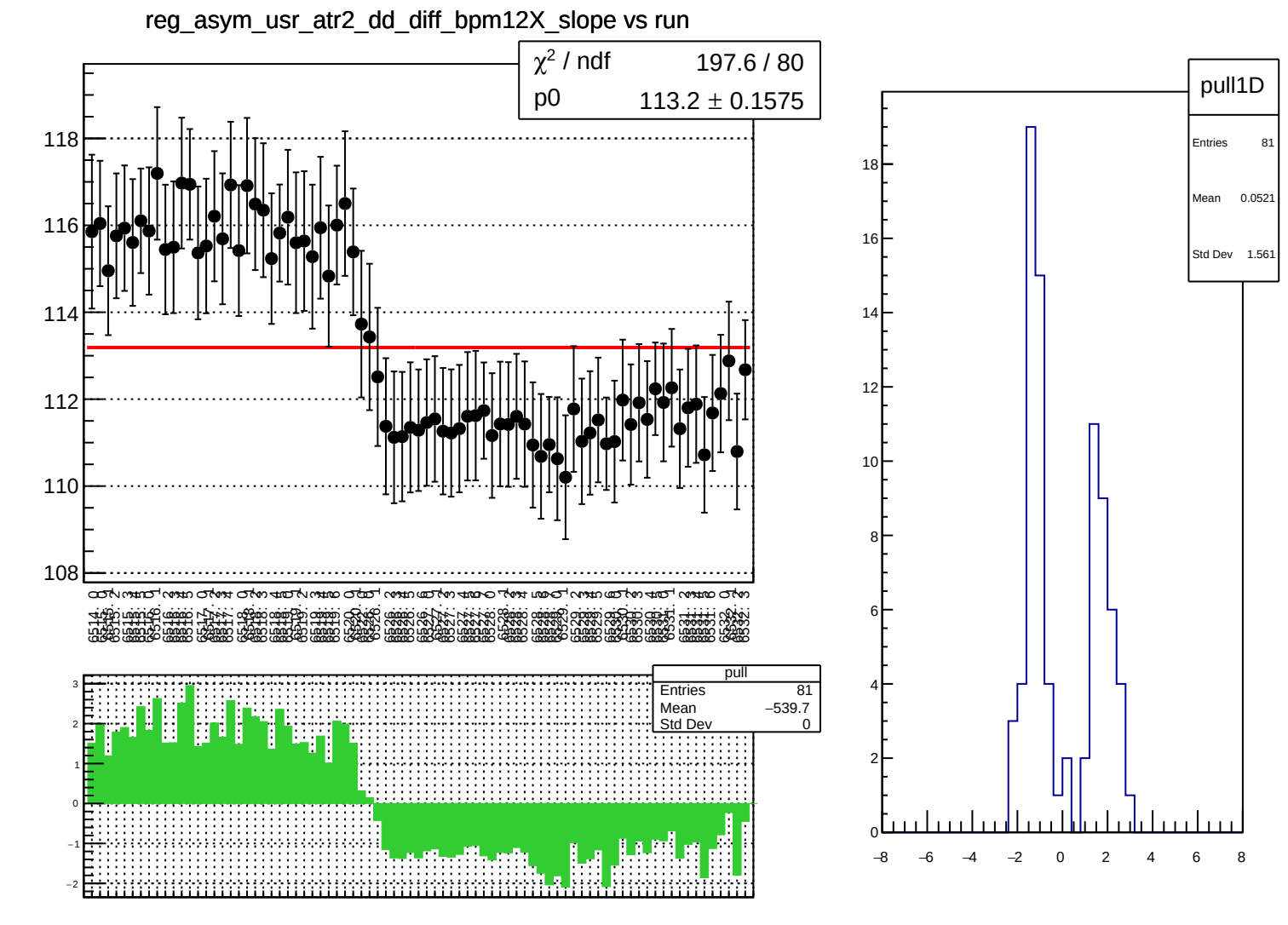

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 47.68 / 80
p0 2.337 ± 3.674
pull
Entries 81
Mean 95.74
Std Dev 0

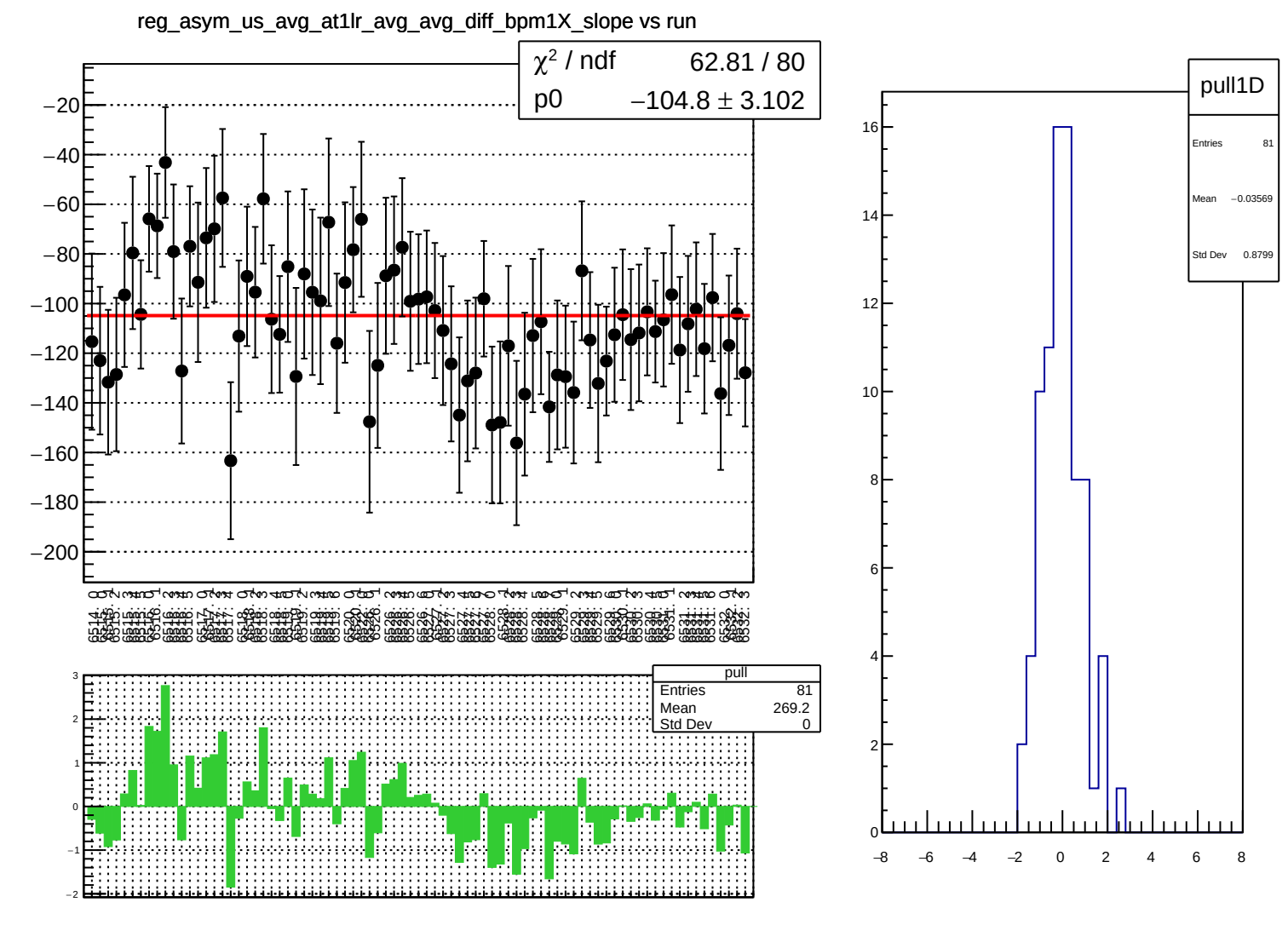

pull1D
Entries 81
Mean 0.119
Std Dev 0.7579

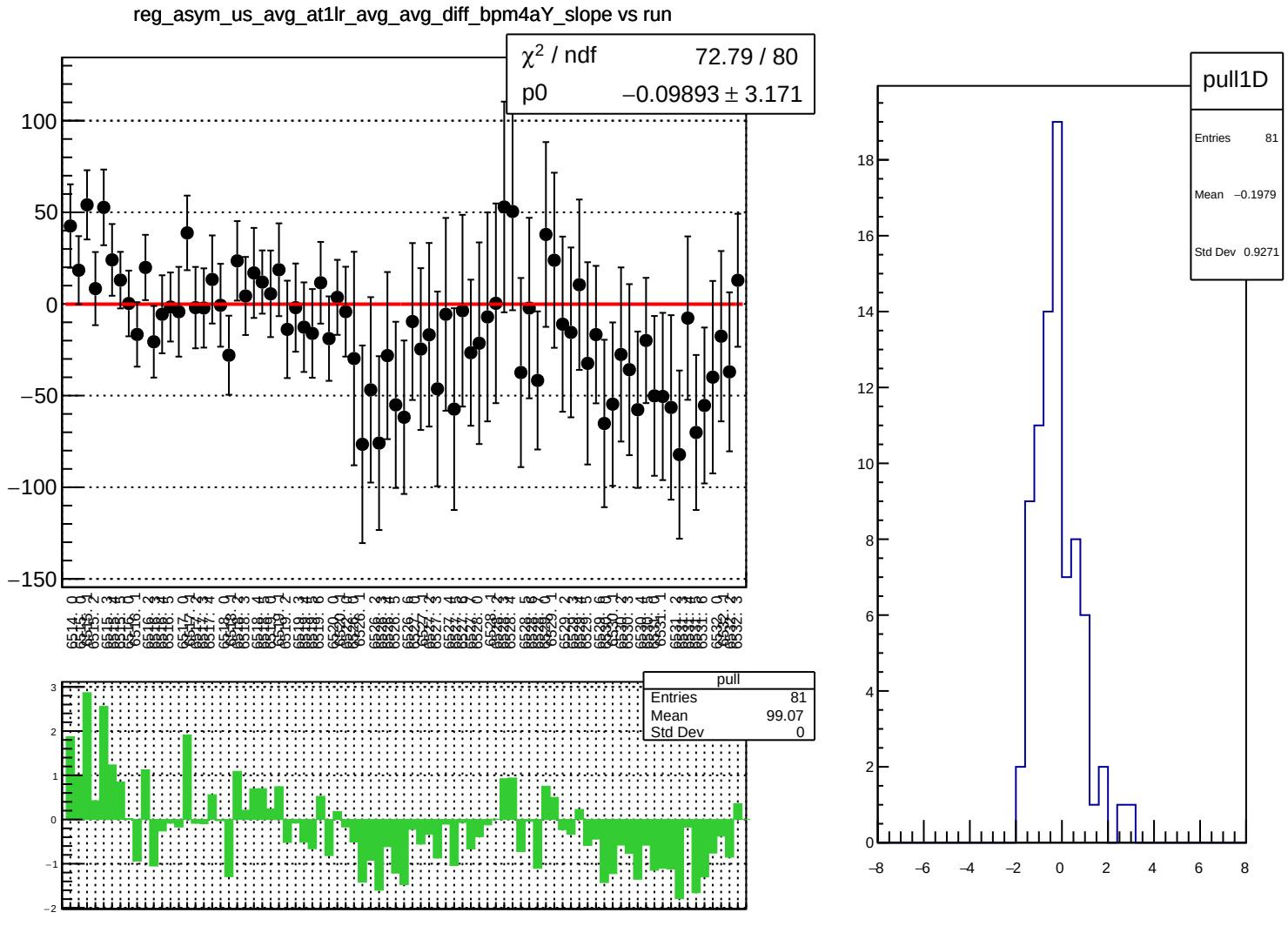

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 83.1 / 80
p0 −185.8 ± 3.912
pull
Entries 81
Mean 176.7
Std Dev 0
pull1D
Entries 81
Mean −0.09959
Std Dev 1.008

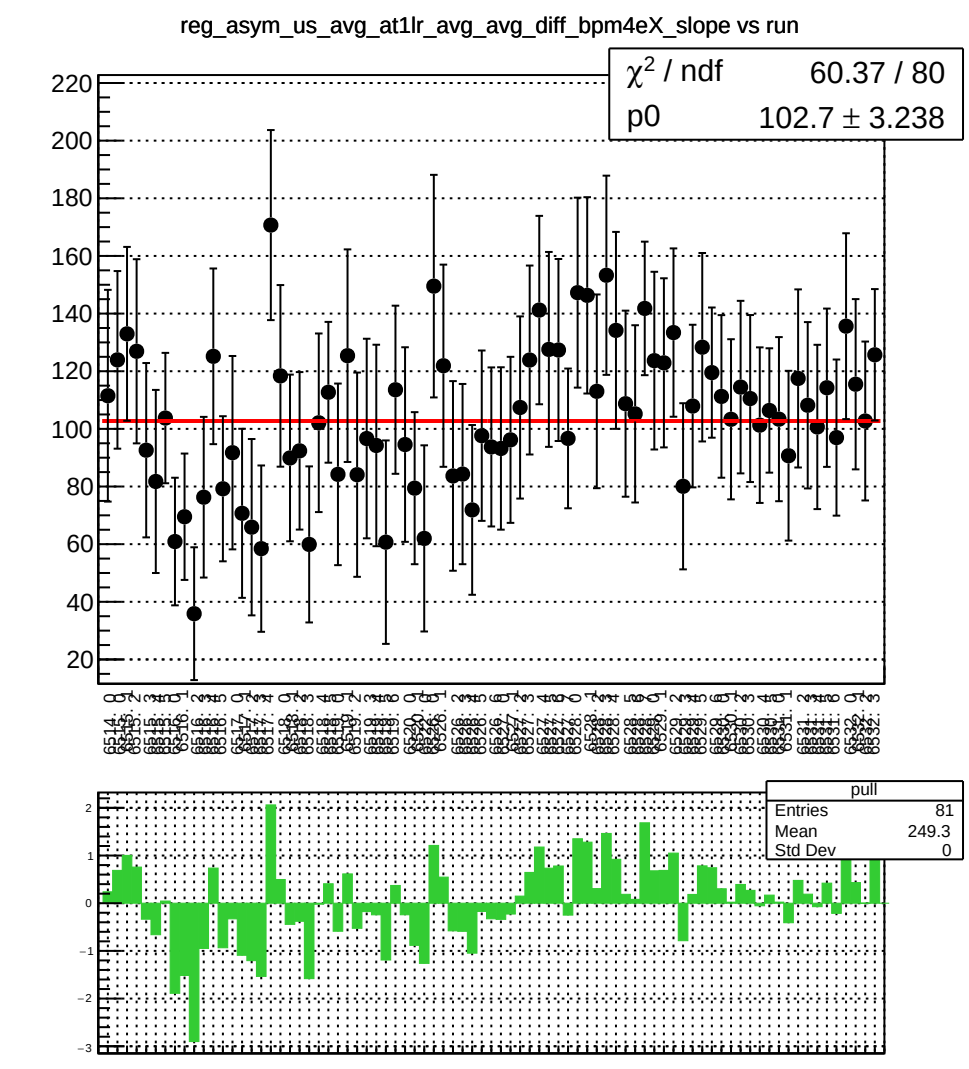

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 44.32 / 80
p0 −71.13 ± 4.219
pull
Entries 81
Mean 125.3
Std Dev 0

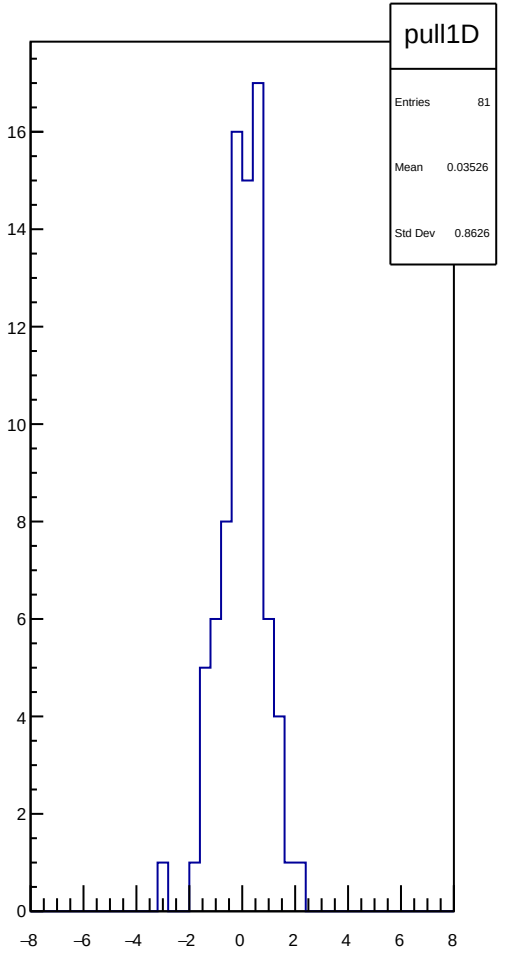

pull1D
Entries 81
Mean −0.06697
Std Dev 0.7366

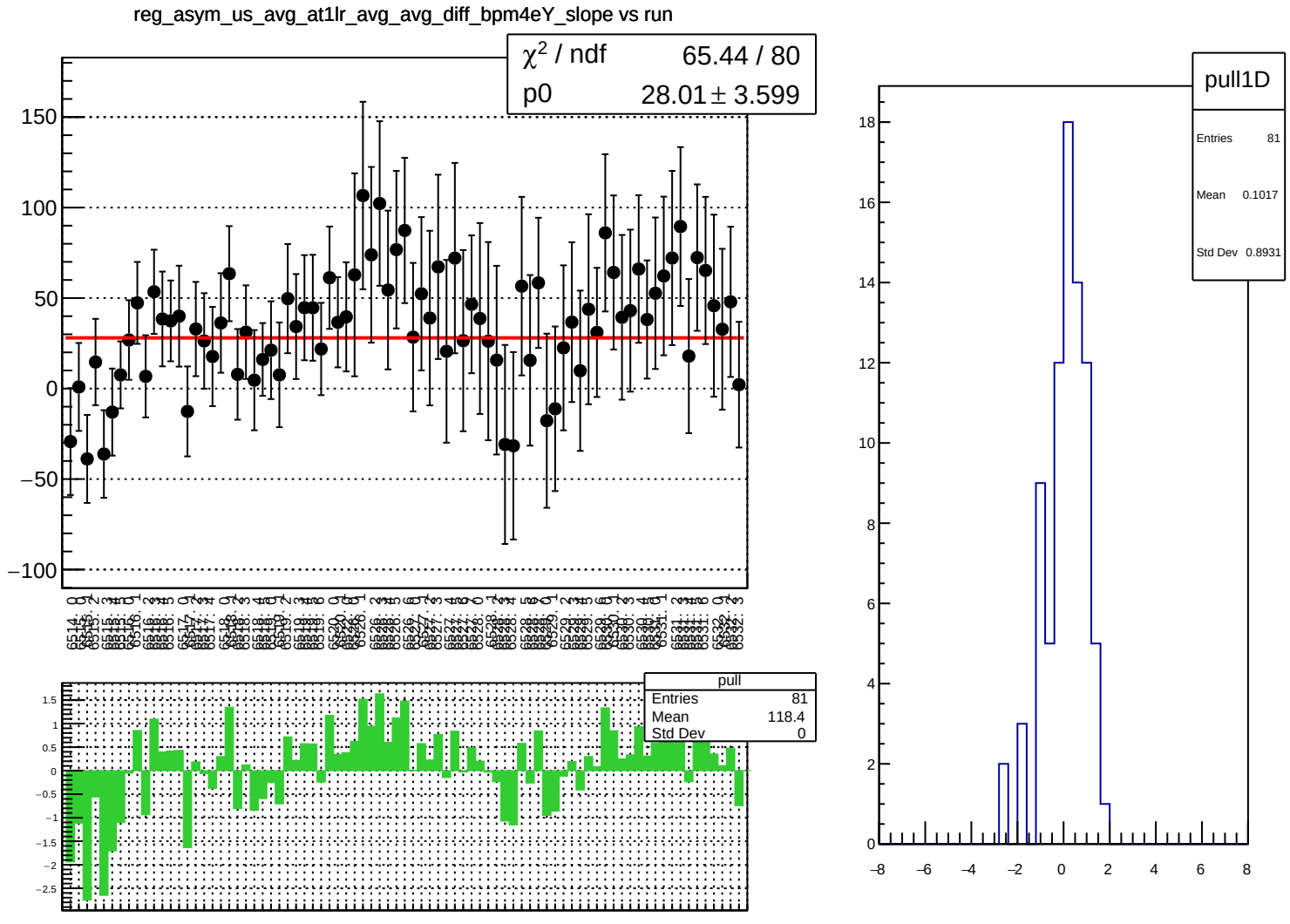

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 197.6 / 80
p0 113.2 ± 0.1575
118
116
114
112
110
108
pull
Entries 81
Mean −539.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 81
Mean 0.0521
Std Dev 1.561
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

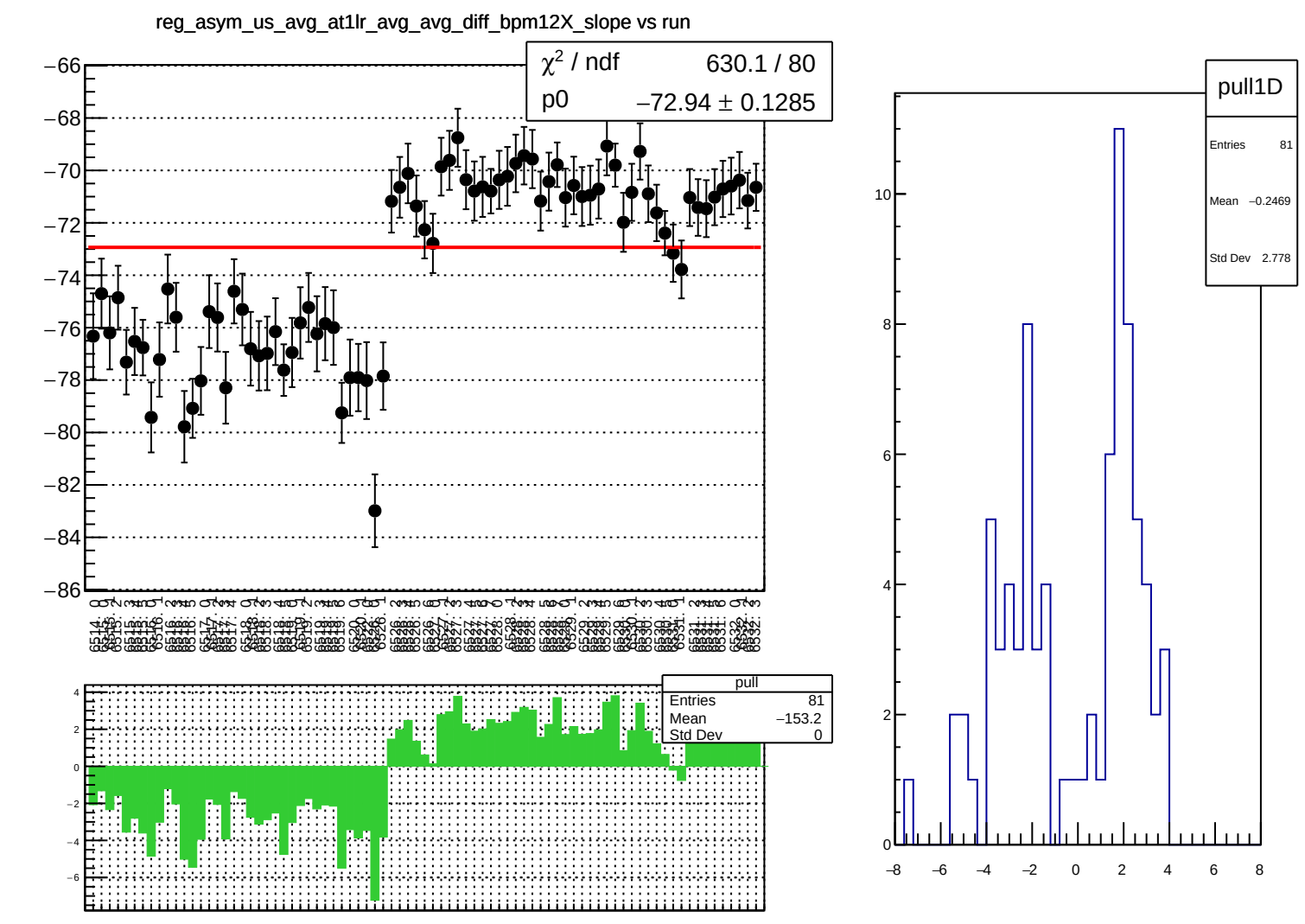

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 62.81 / 80
p0 −104.8 ± 3.102
pull
Entries 81
Mean 269.2
Std Dev 0
pull1D
Entries 81
Mean −0.03569
Std Dev 0.8799

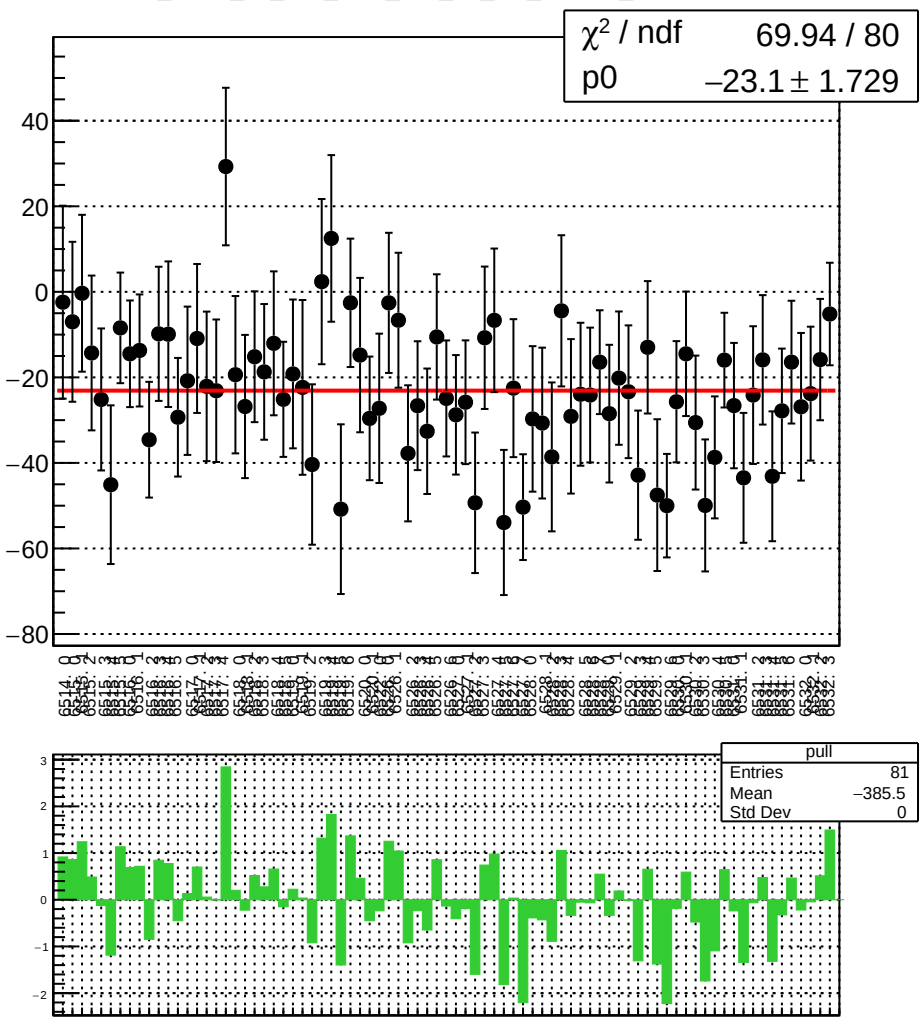

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 72.79 / 80
p0 −0.09893 ± 3.171
pull
Entries 81
Mean 99.07
Std Dev 0
pull1D
Entries 81
Mean −0.1979
Std Dev 0.9271

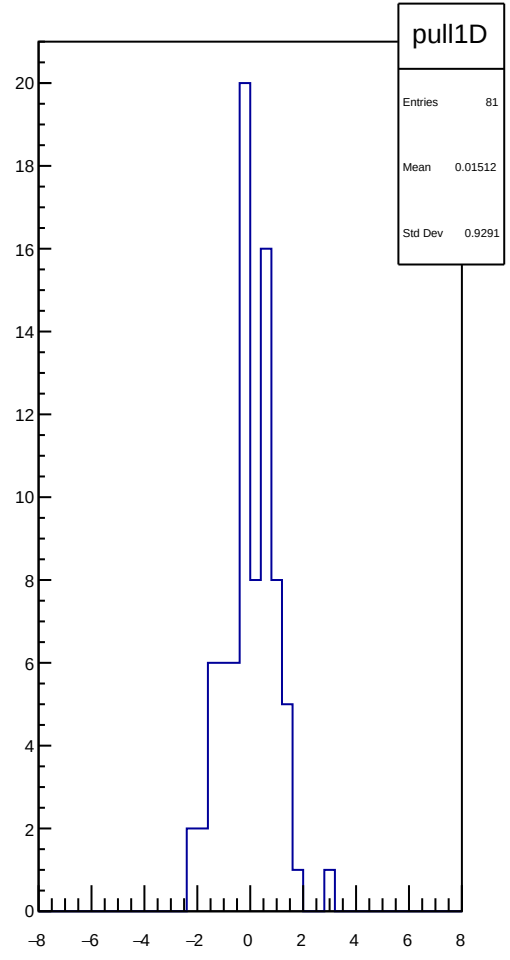

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 60.37 / 80
p0 102.7 ± 3.238
pull
Entries 81
Mean 249.3
Std Dev 0

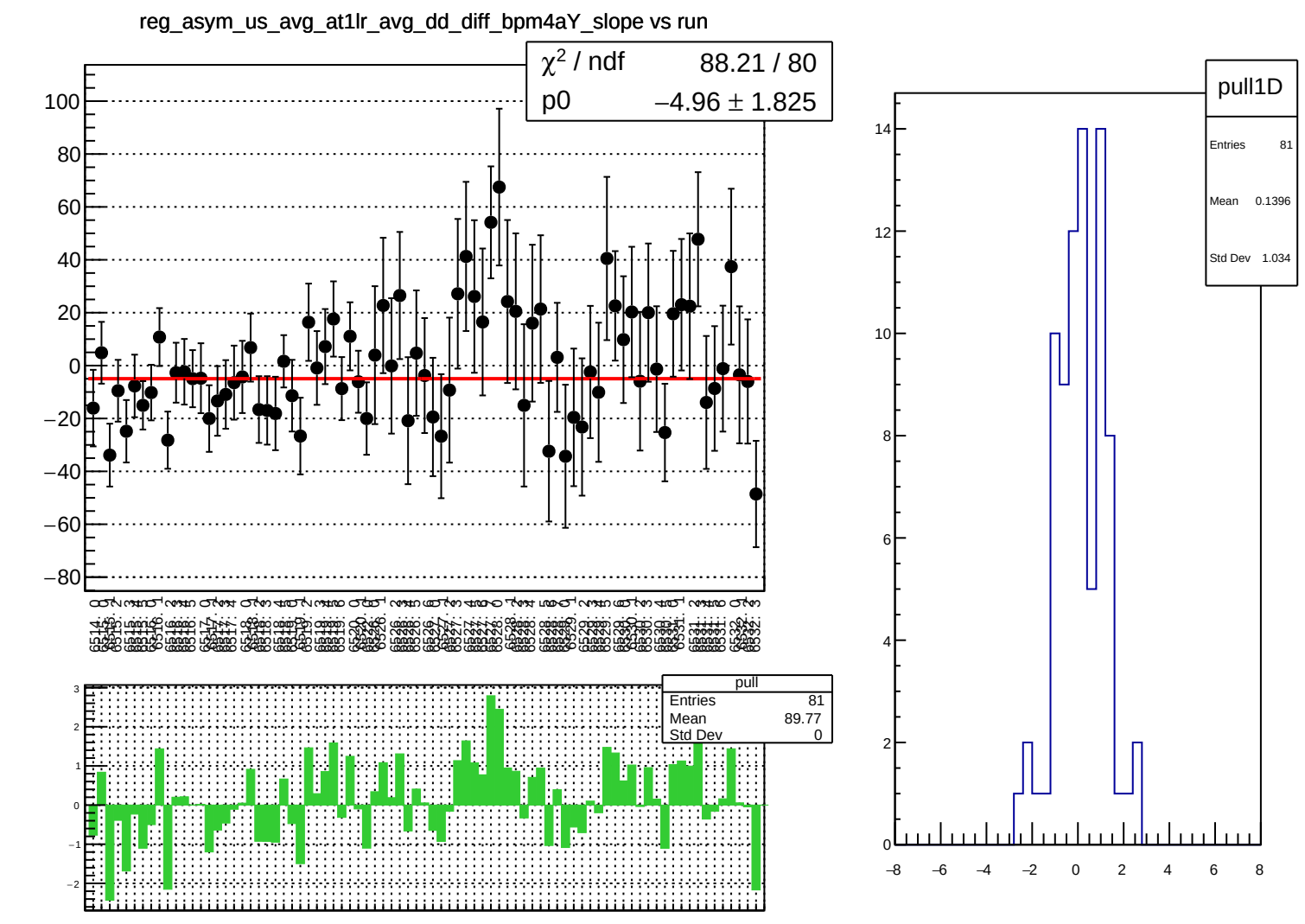

pull1D
Entries 81
Mean 0.03526
Std Dev 0.8626

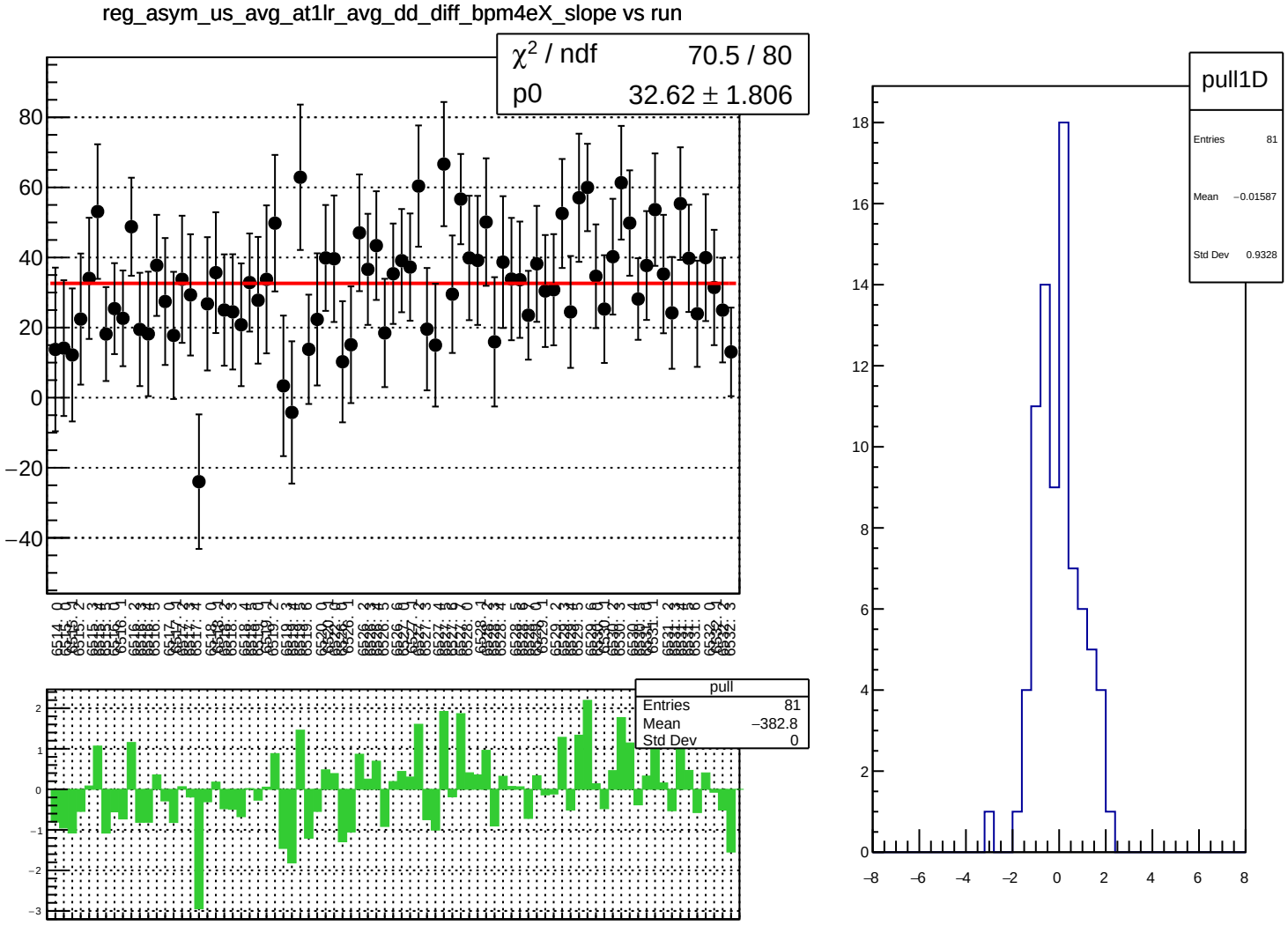

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 65.44 / 80
p0 28.01 ± 3.599
pull
Entries 81
Mean 118.4
Std Dev 0
pull1D
Entries 81
Mean 0.1017
Std Dev 0.8931

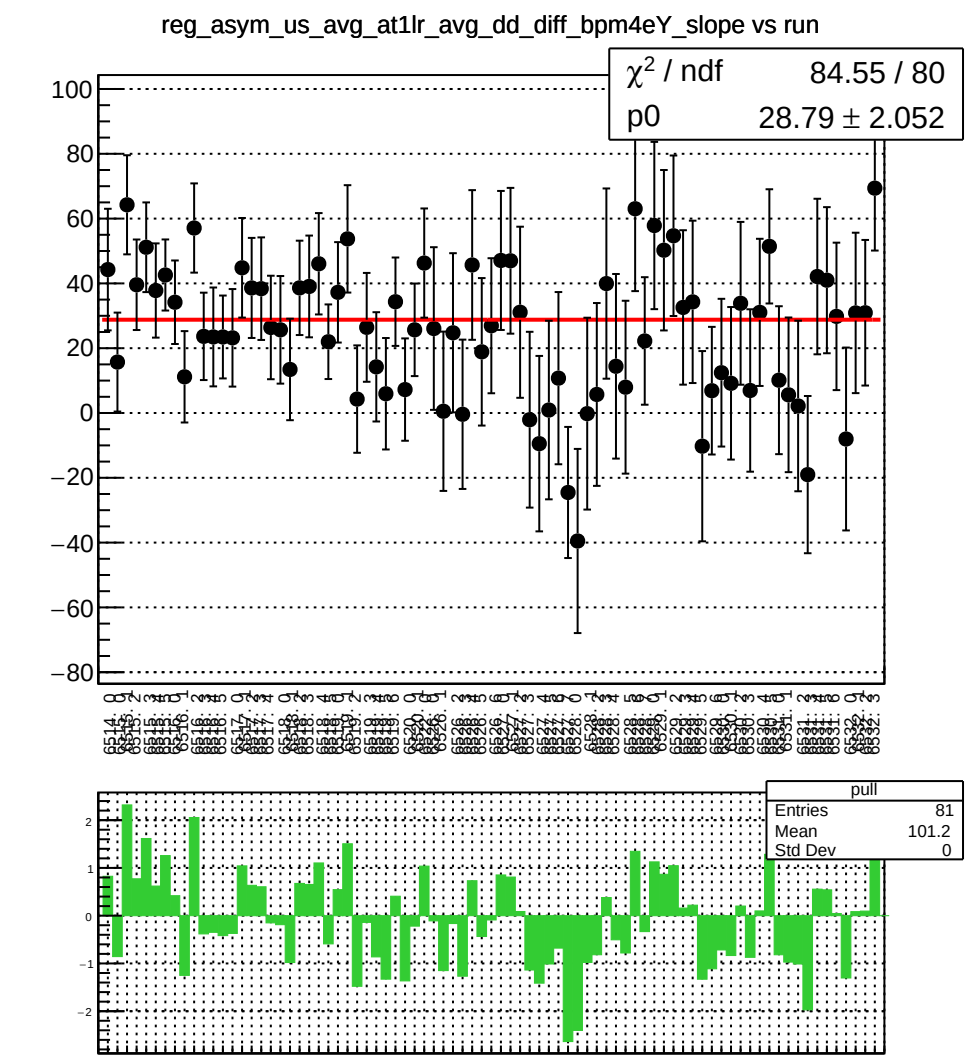

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 630.1 / 80
p0 −72.94 ± 0.1285
pull
Entries 81
Mean −153.2
Std Dev 0
pull1D
Entries 81
Mean −0.2469
Std Dev 2.778

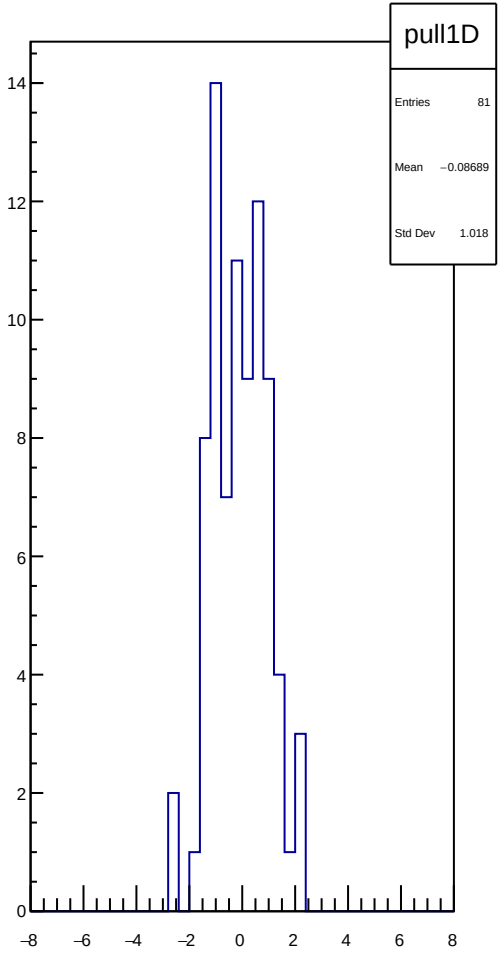

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 69.94 / 80
p0 −23.1 ± 1.729
pull
Entries 81
Mean −385.5
Std Dev 0

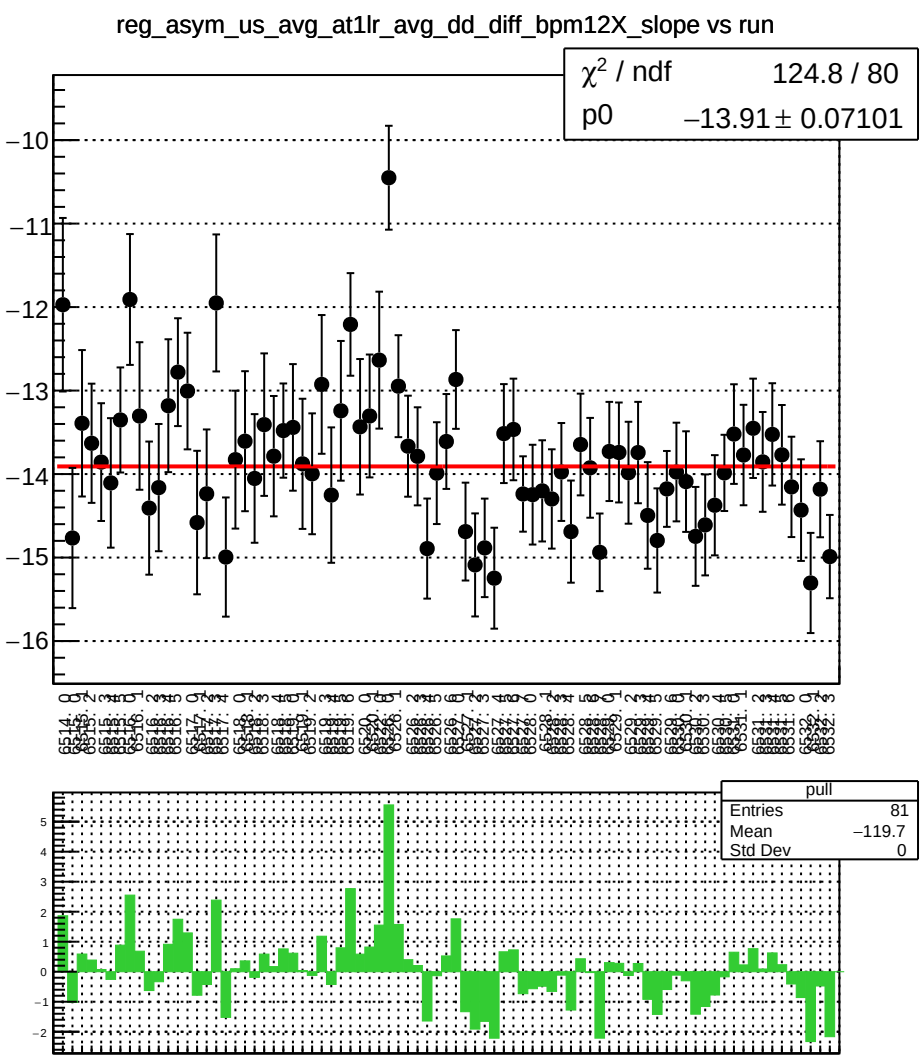

pull1D
Entries 81
Mean 0.01512
Std Dev 0.9291

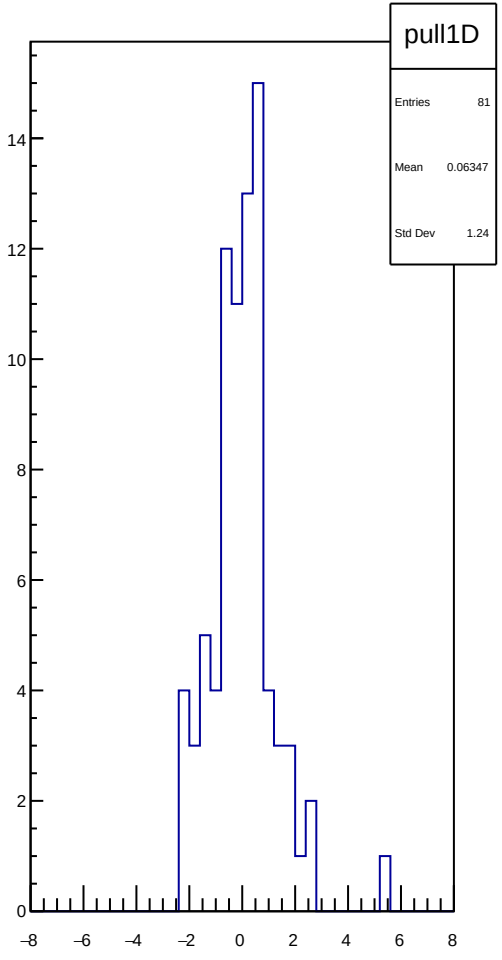

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 88.21 / 80
p0 −4.96 ± 1.825
pull
Entries 81
Mean 89.77
Std Dev 0
pull1D
Entries 81
Mean 0.1396
Std Dev 1.034

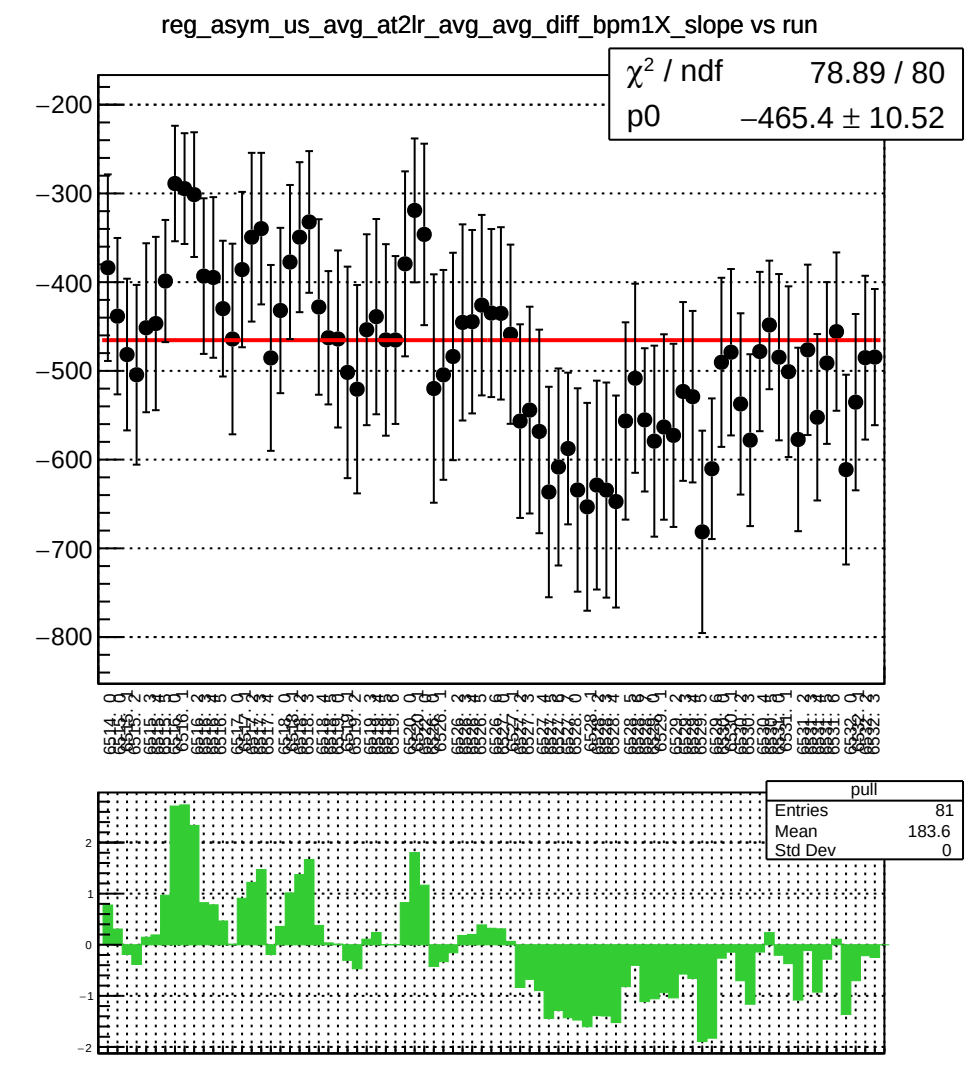

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 70.5 / 80
p0 32.62 ± 1.806
pull
Entries 81
Mean −382.8
Std Dev 0
pull1D
Entries 81
Mean −0.01587
Std Dev 0.9328

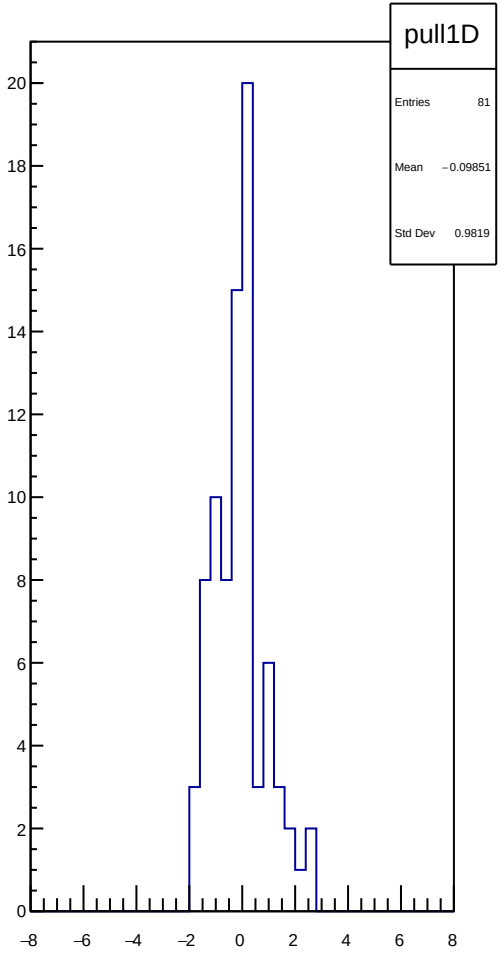

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 84.55 / 80
p0 28.79 ± 2.052
pull
Entries 81
Mean 101.2
Std Dev 0

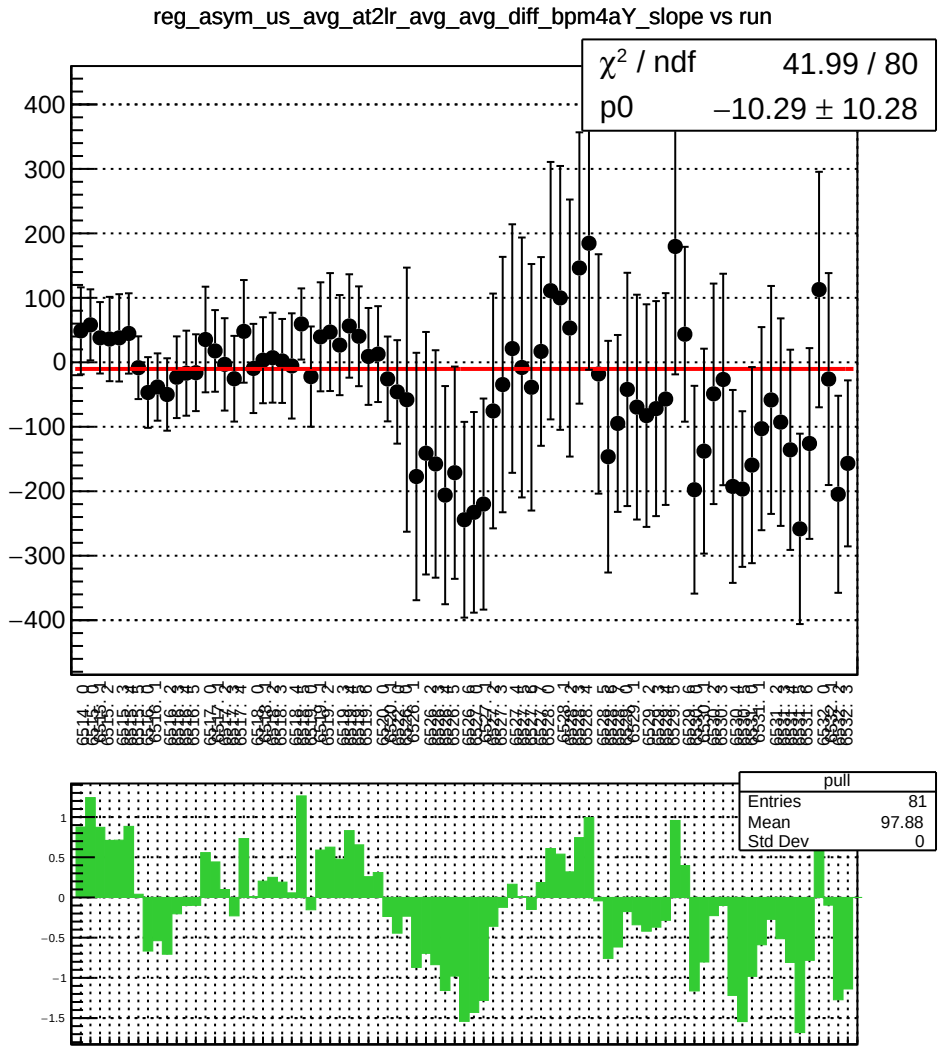

pull1D
Entries 81
Mean −0.08689
Std Dev 1.018

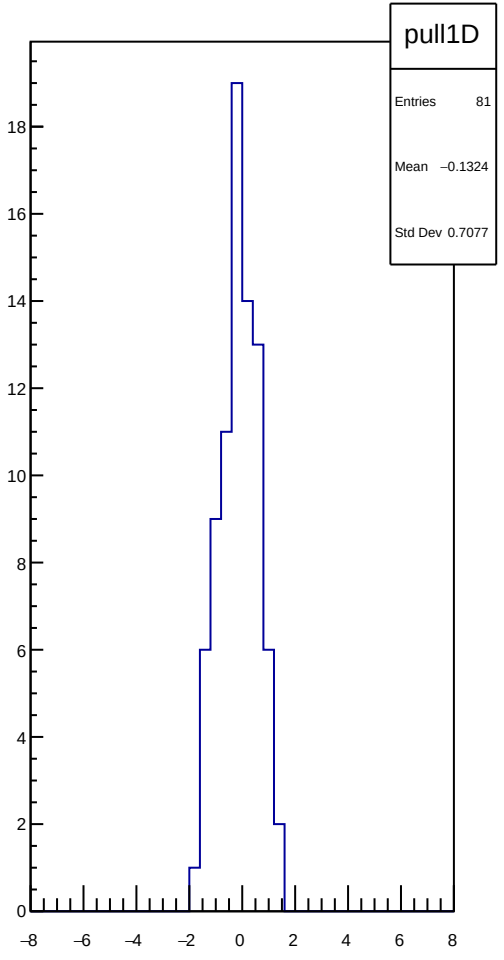

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 124.8 / 80
p0 −13.91 ± 0.07101
pull
Entries 81
Mean −119.7
Std Dev 0

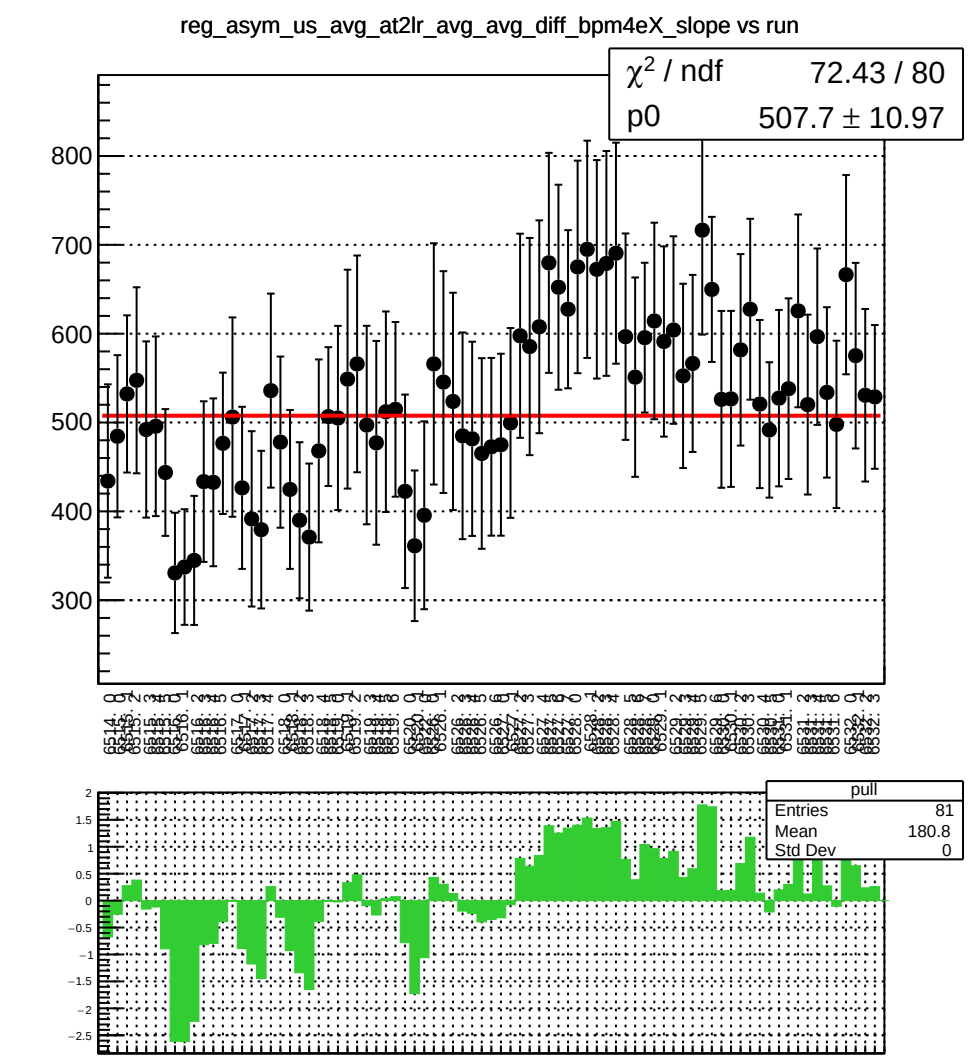

pull1D
Entries 81
Mean 0.06347
Std Dev 1.24

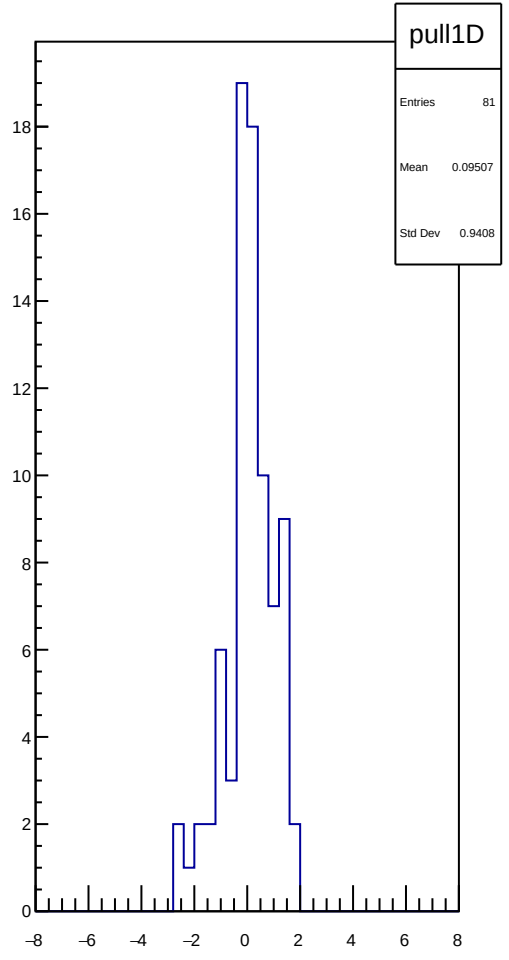

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 78.89 / 80
p0 −465.4 ± 10.52
pull
Entries 81
Mean 183.6
Std Dev 0

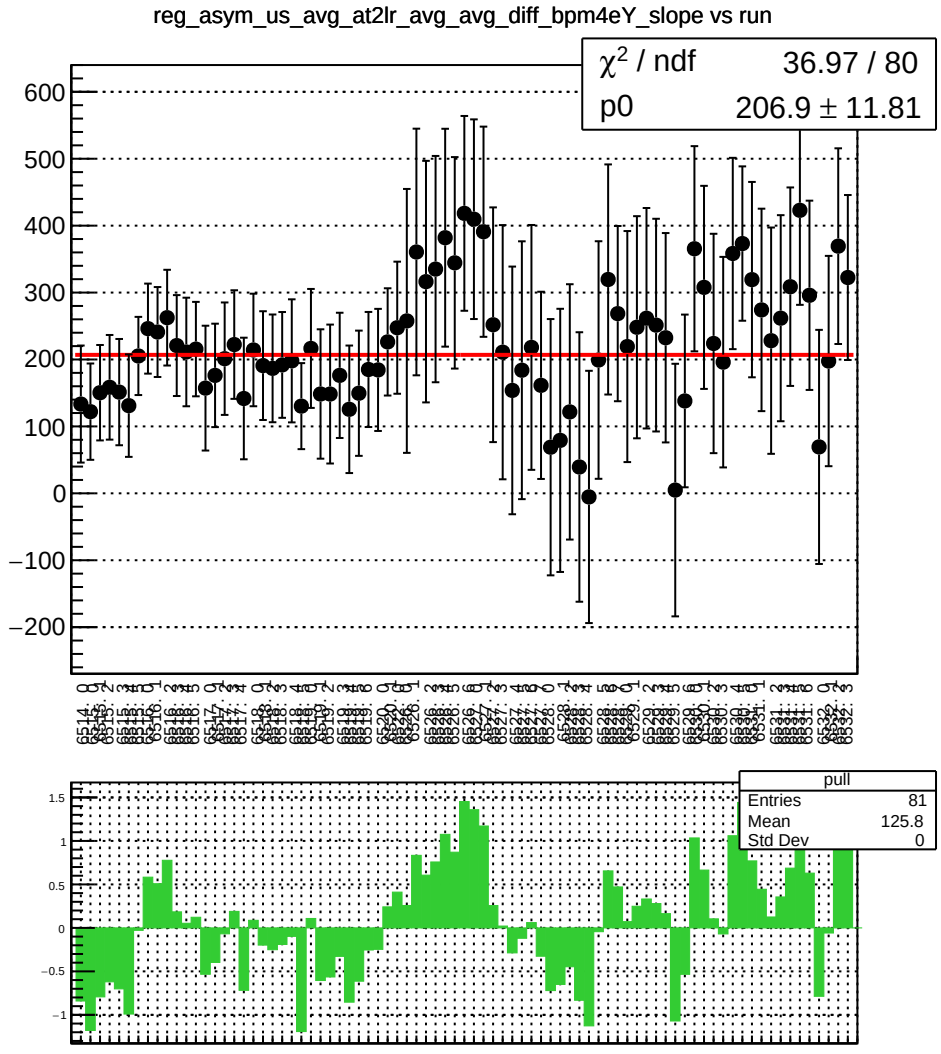

pull1D
Entries 81
Mean −0.09851
Std Dev 0.9819

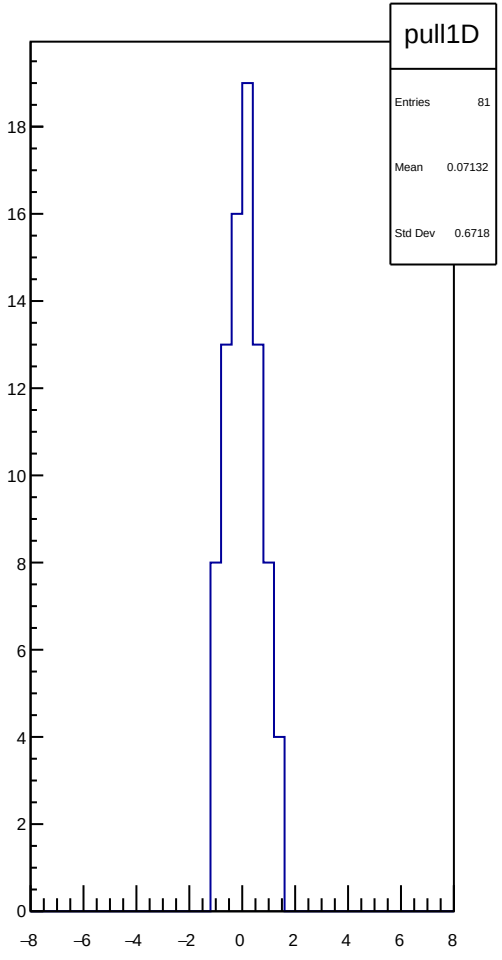

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 41.99 / 80
p0 −10.29 ± 10.28
pull
Entries 81
Mean 97.88
Std Dev 0

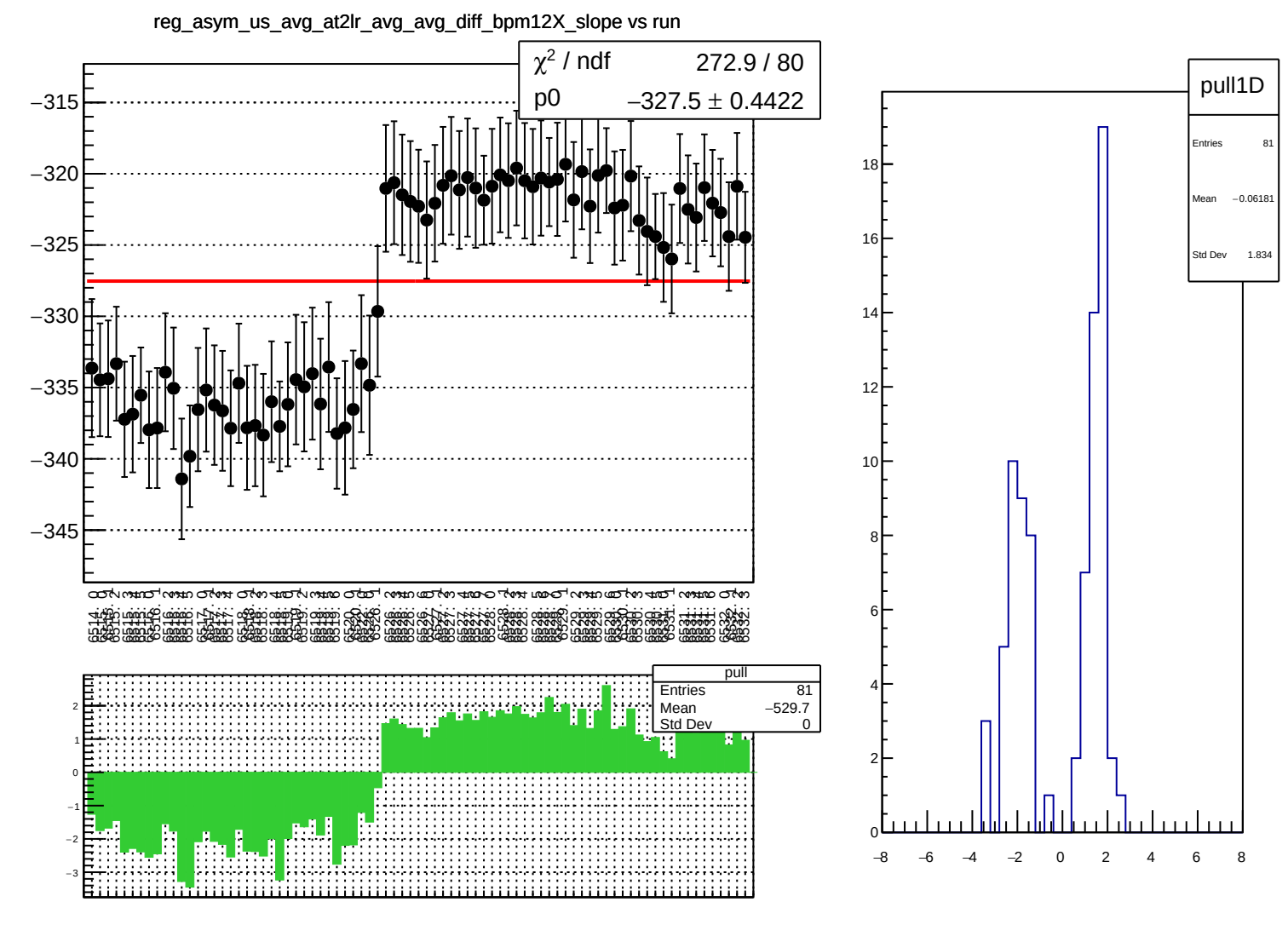

pull1D
Entries 81
Mean −0.1324
Std Dev 0.7077

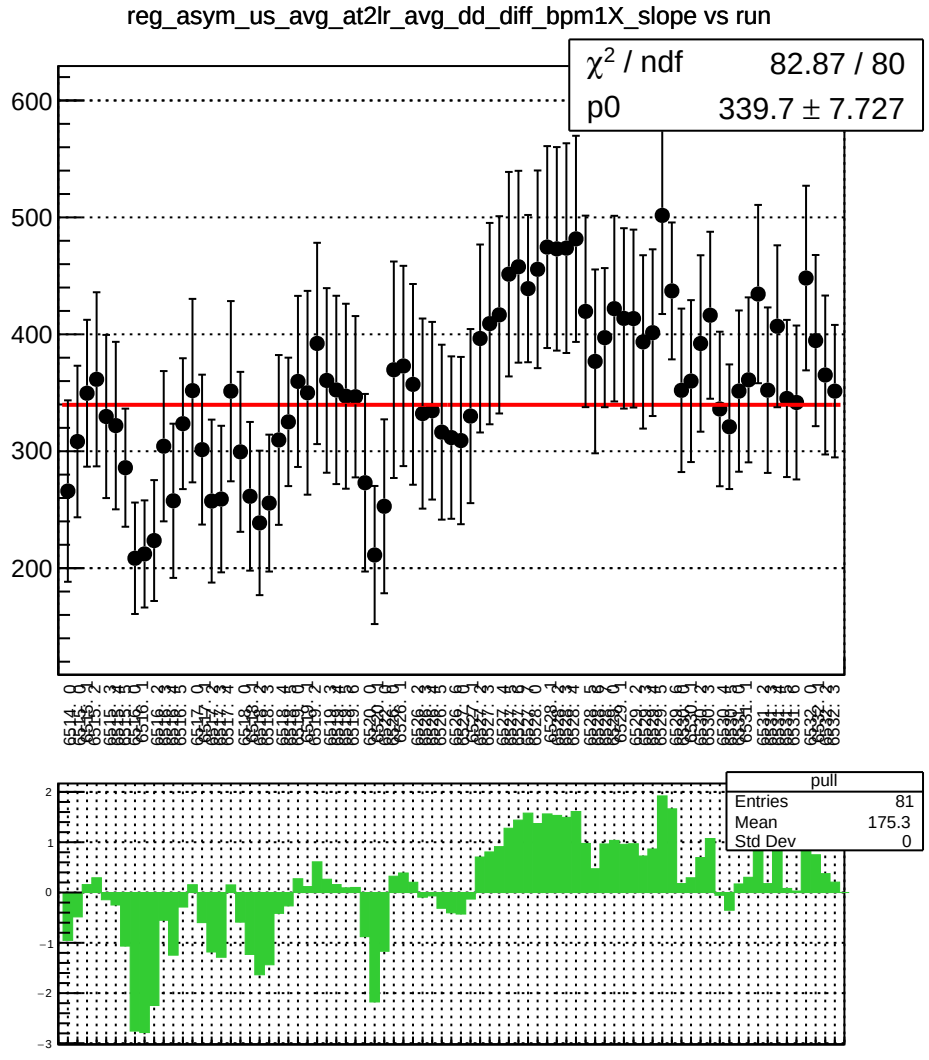

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 72.43 / 80
p0 507.7 ± 10.97
800
700
600
500
400
300
pull
Entries 81
Mean 180.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

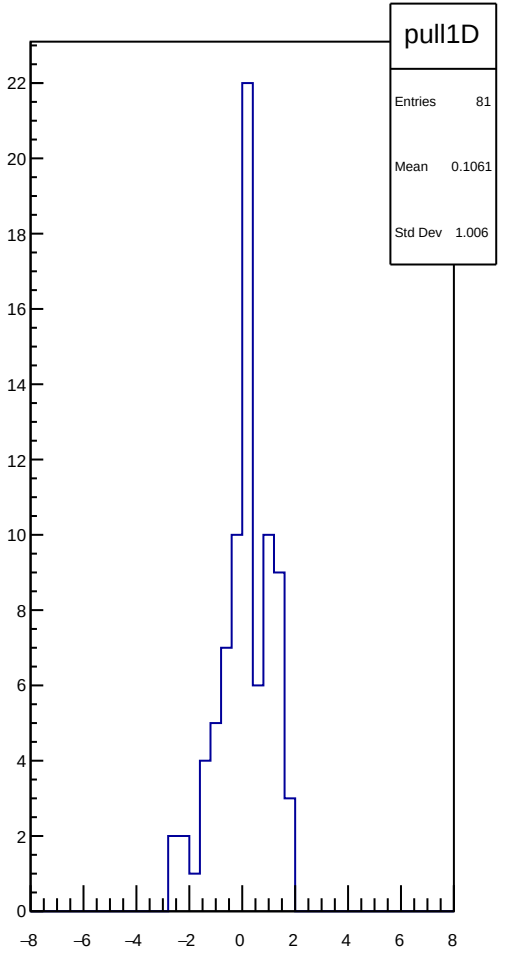

pull1D
Entries 81
Mean 0.09507
Std Dev 0.9408
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

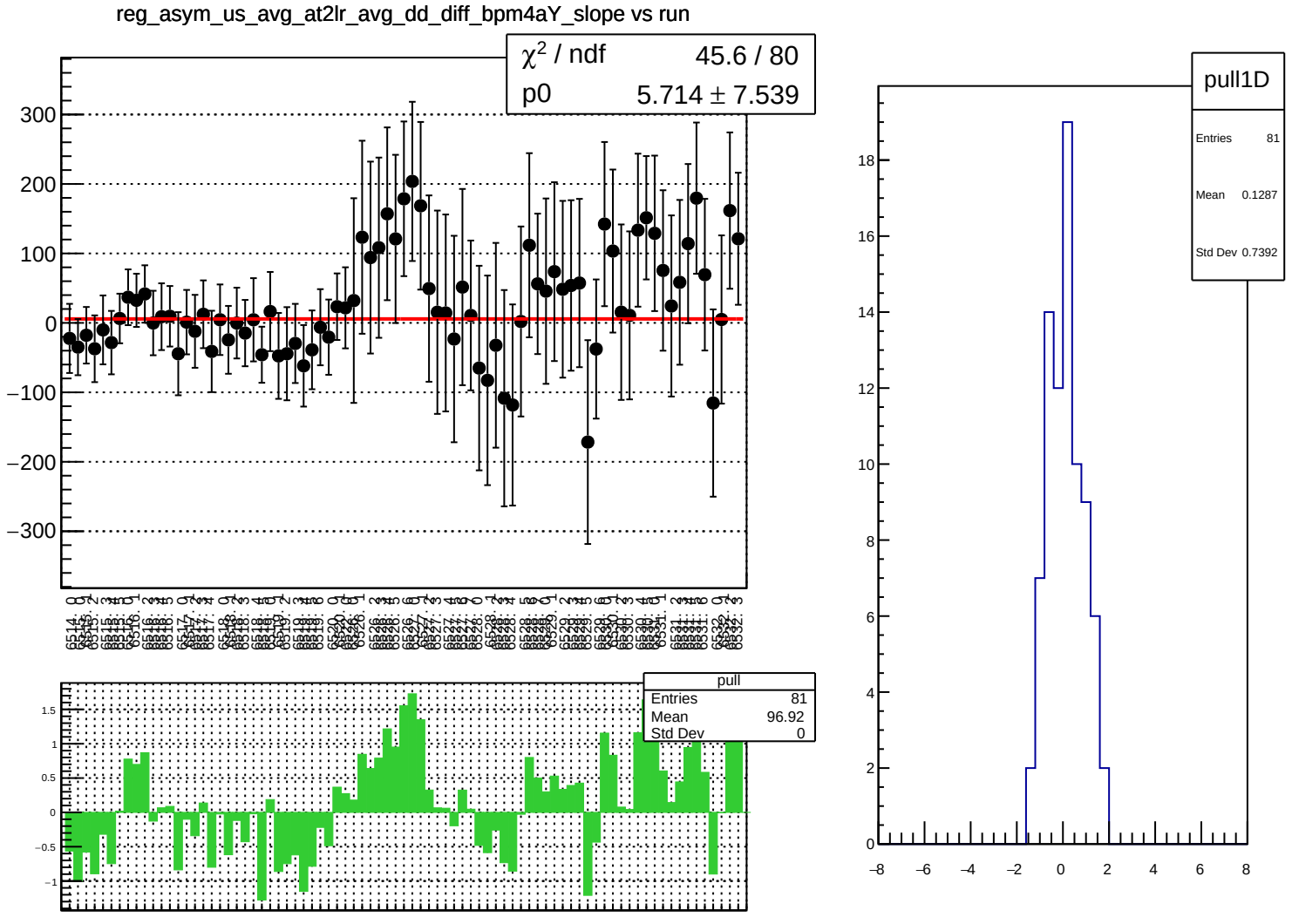

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 36.97 / 80
p0 206.9 ± 11.81
pull
Entries 81
Mean 125.8
Std Dev 0

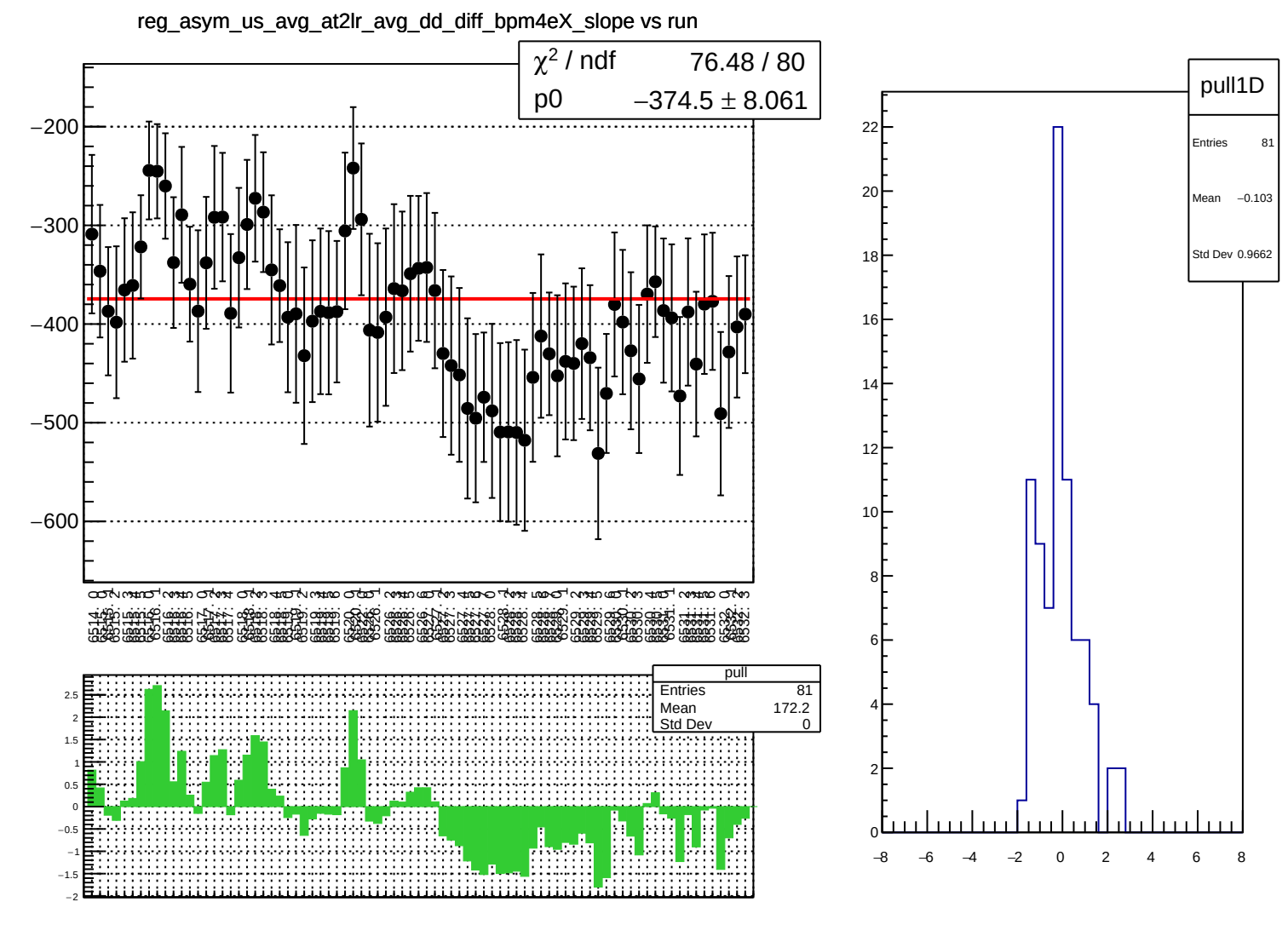

pull1D
Entries 81
Mean 0.07132
Std Dev 0.6718

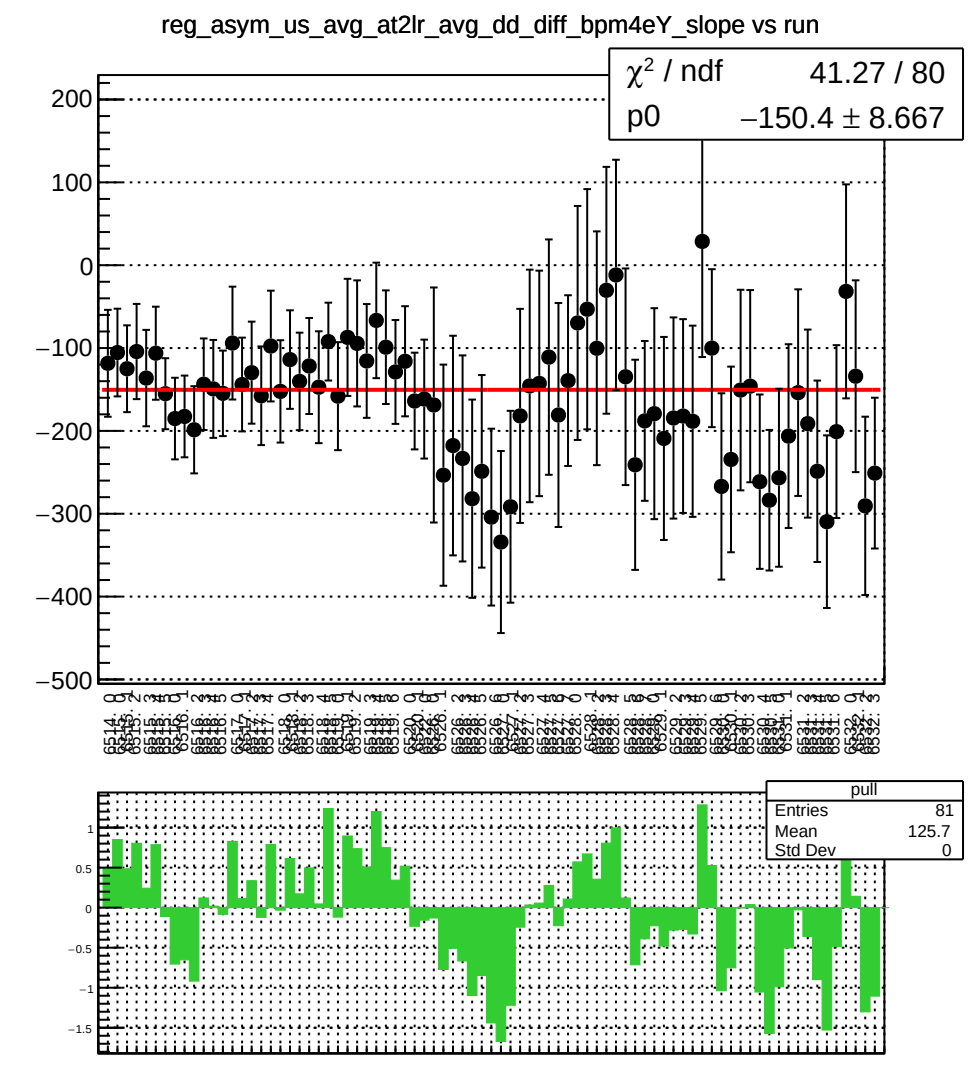

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 272.9 / 80
p0 −327.5 ± 0.4422
−315
−320
−325
−330
−335
−340
−345
pull
Entries 81
Mean −529.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 81
Mean −0.06181
Std Dev 1.834
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

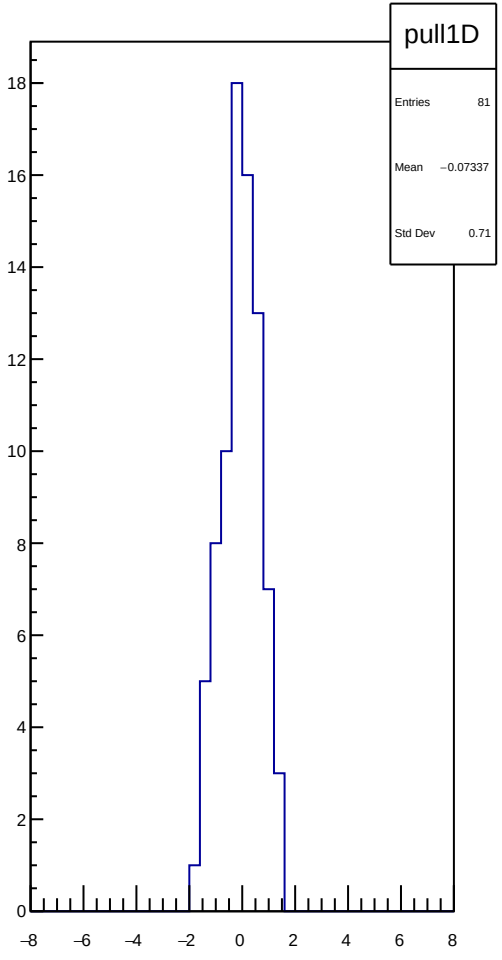

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 82.87 / 80
p0 339.7 ± 7.727
pull
Entries 81
Mean 175.3
Std Dev 0

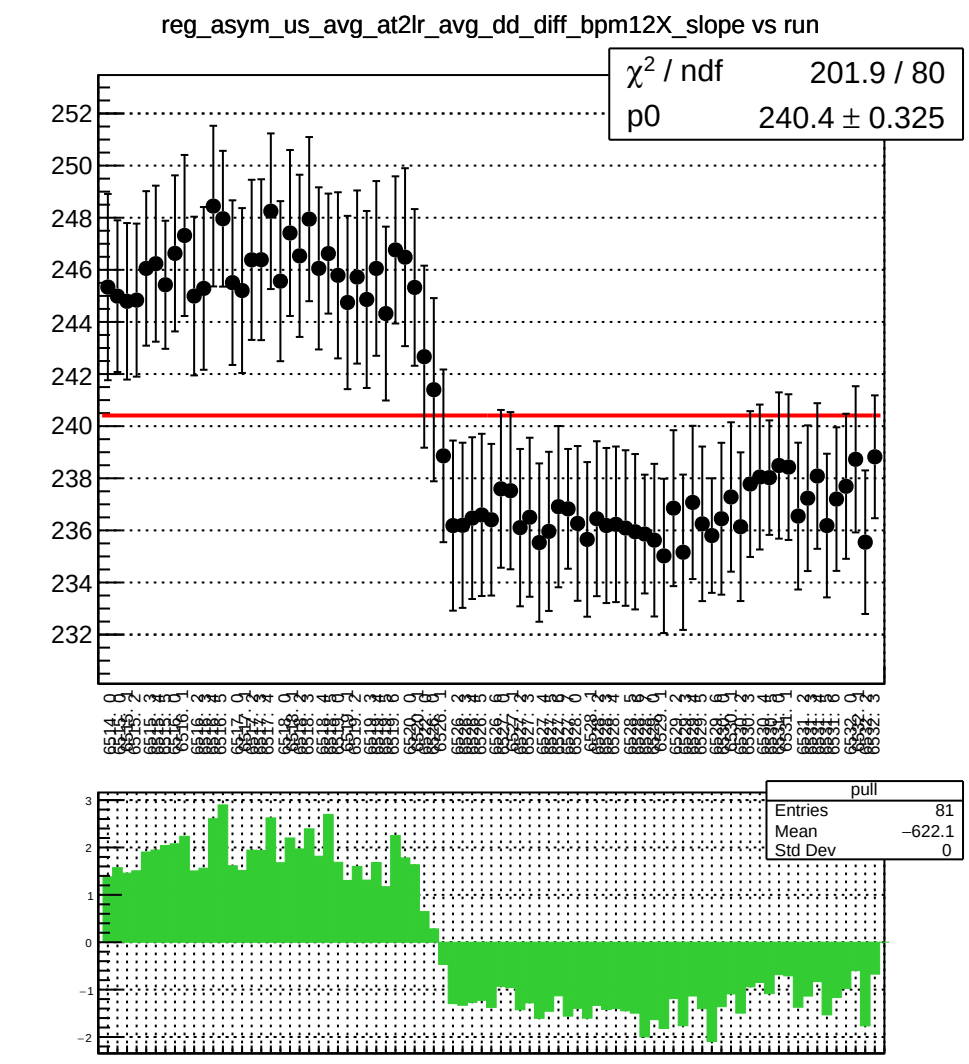

pull1D
Entries 81
Mean 0.1061
Std Dev 1.006

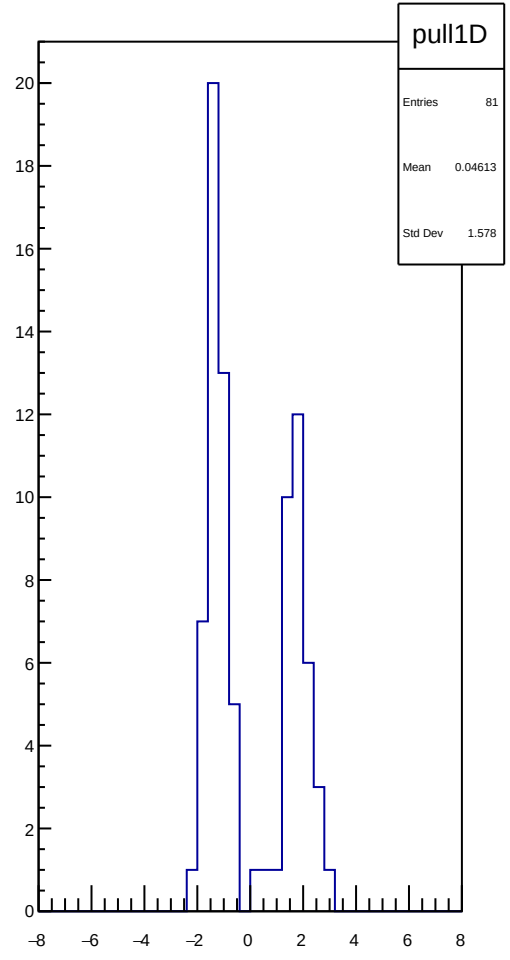

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 45.6 / 80
p0 5.714 ± 7.539
pull
Entries 81
Mean 96.92
Std Dev 0
pull1D
Entries 81
Mean 0.1287
Std Dev 0.7392

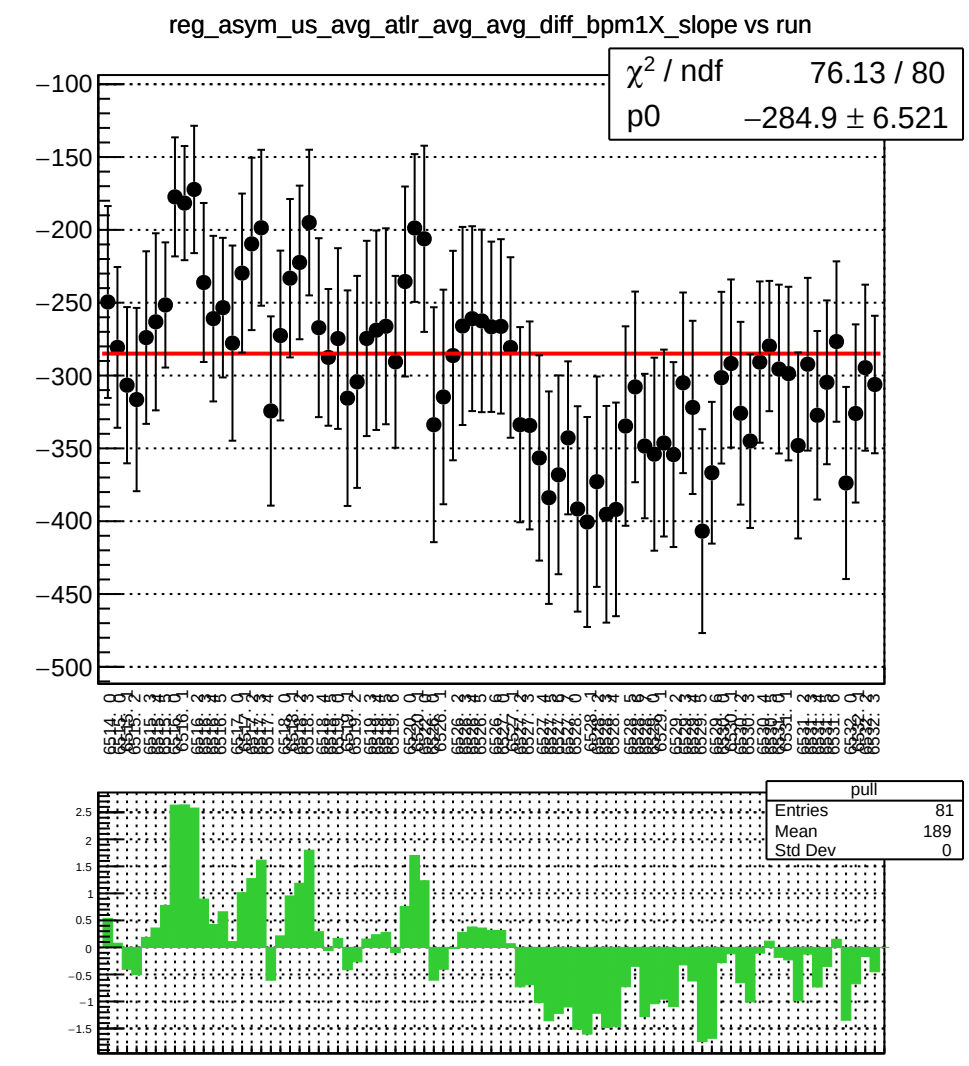

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 76.48 / 80
p0 −374.5 ± 8.061
pull
Entries 81
Mean 172.2
Std Dev 0
pull1D
Entries 81
Mean −0.103
Std Dev 0.9662

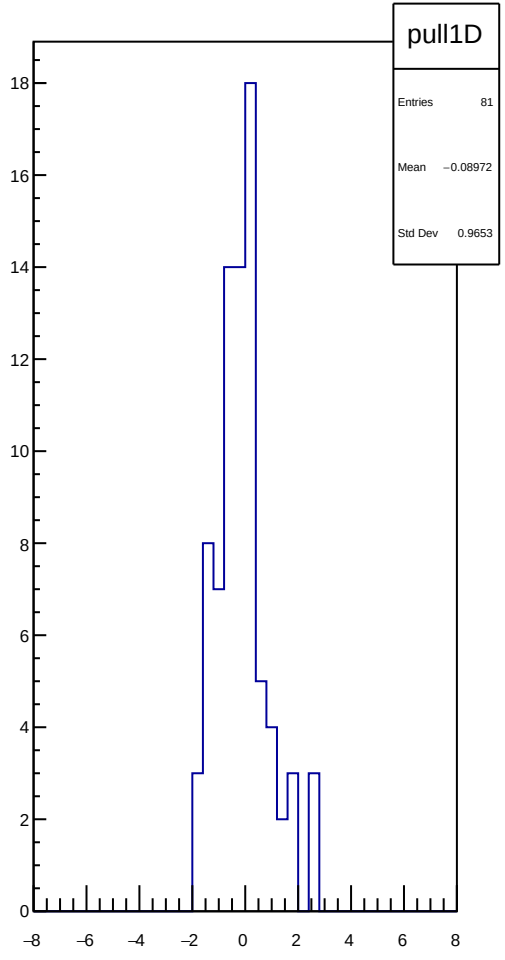

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 41.27 / 80
p0 −150.4 ± 8.667
pull
Entries 81
Mean 125.7
Std Dev 0

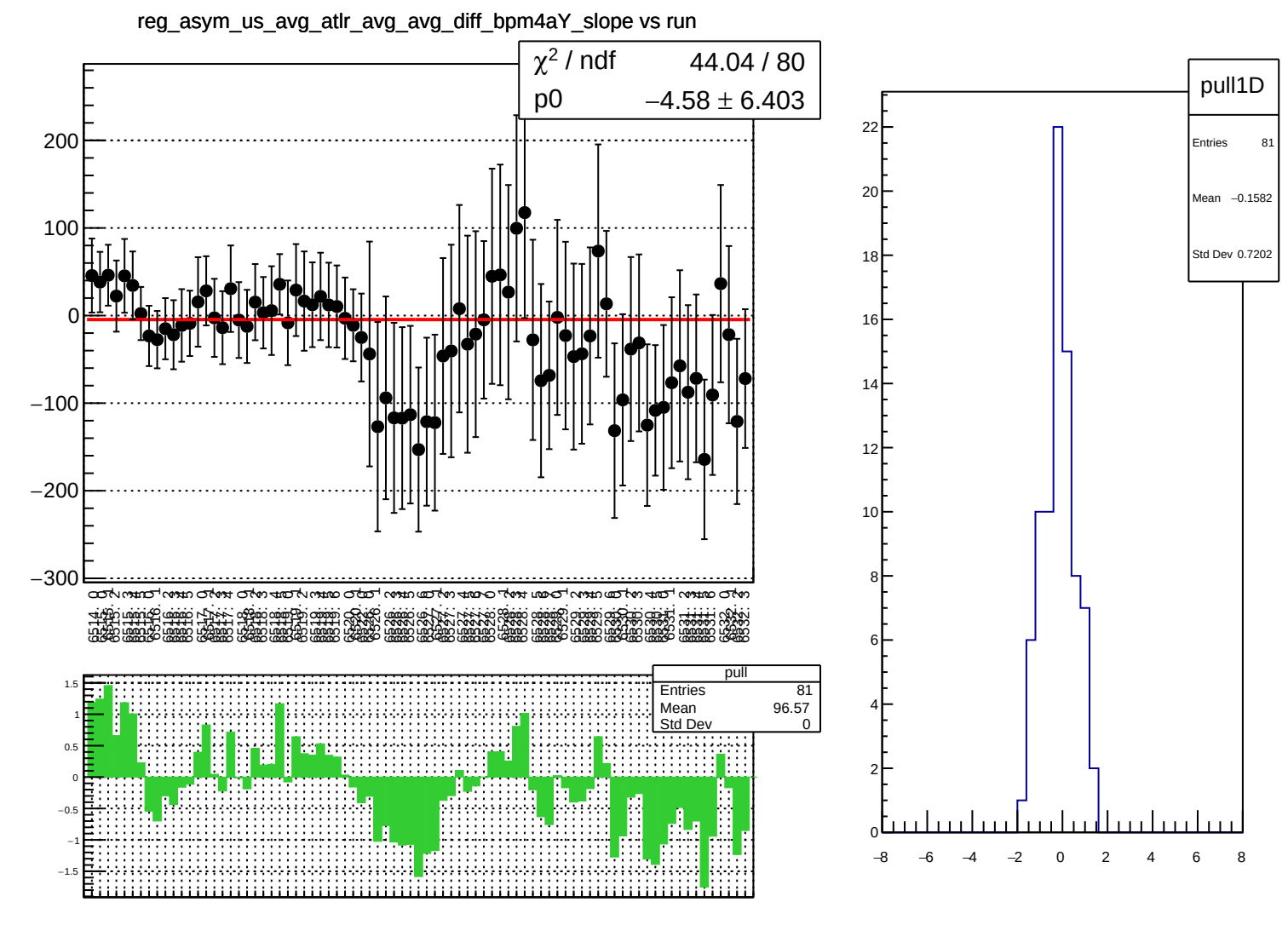

pull1D
Entries 81
Mean −0.07337
Std Dev 0.71

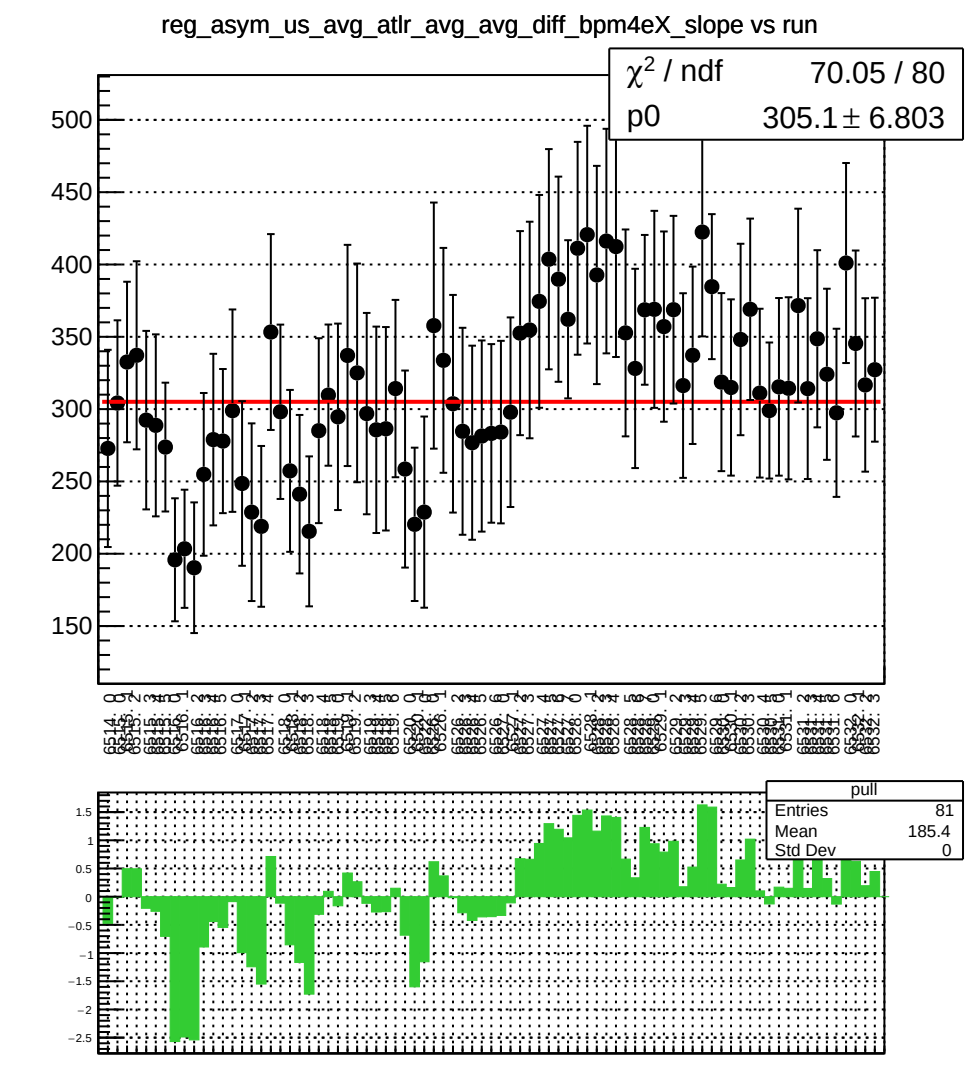

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 201.9 / 80
p0 240.4 ± 0.325
pull
Entries 81
Mean −622.1
Std Dev 0

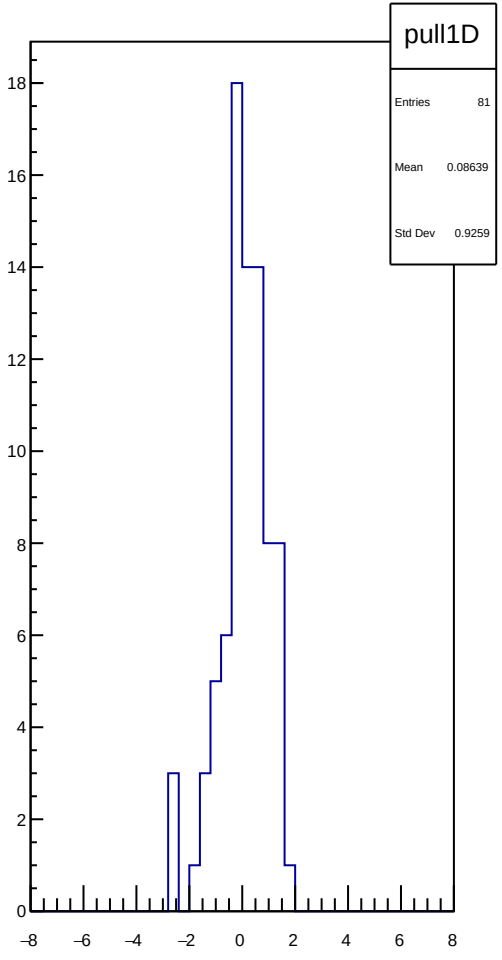

pull1D
Entries 81
Mean 0.04613
Std Dev 1.578

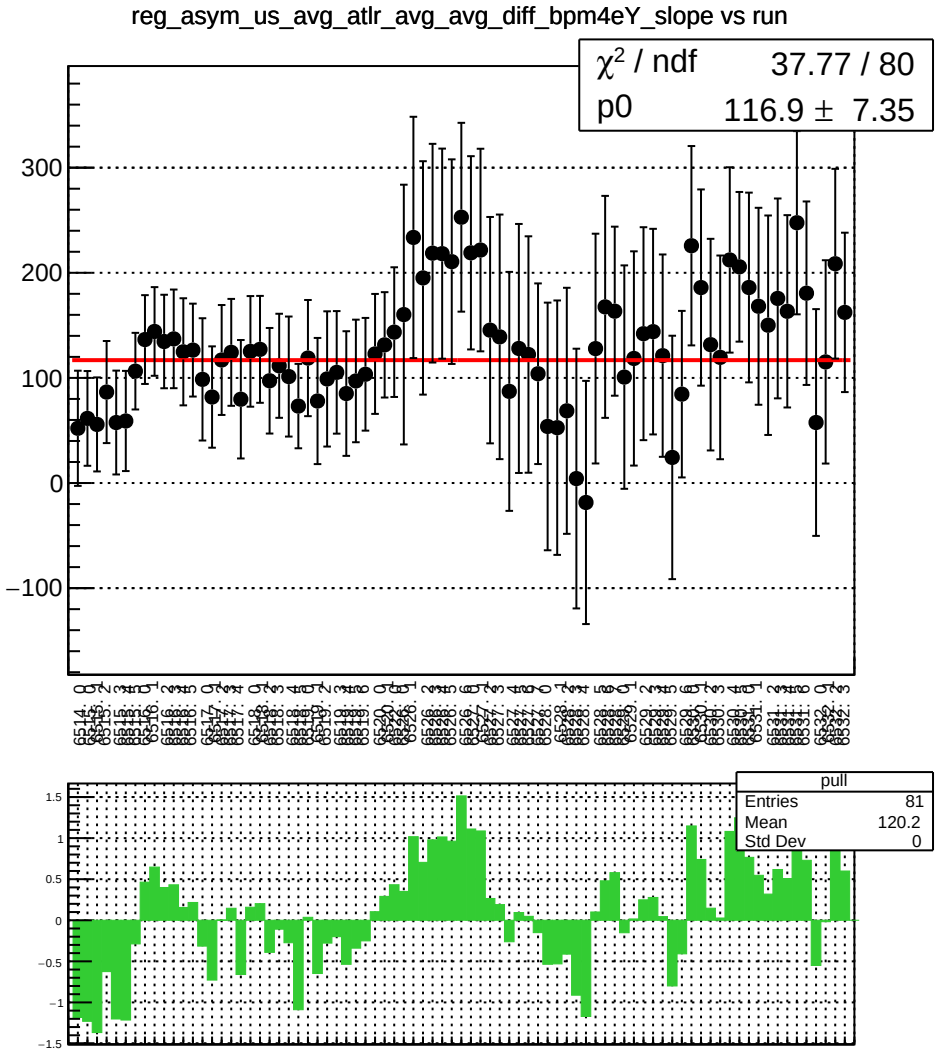

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 76.13 / 80
p0 −284.9 ± 6.521
pull
Entries 81
Mean 189
Std Dev 0

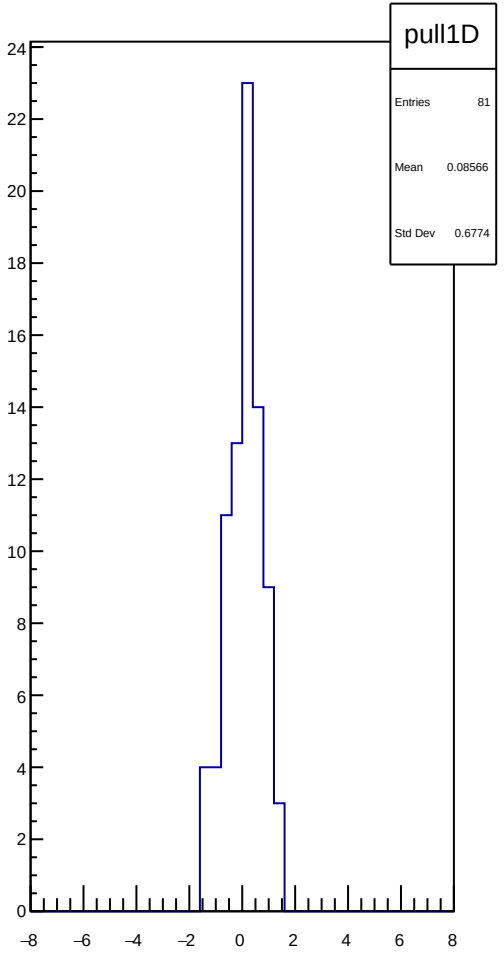

pull1D
Entries 81
Mean −0.08972
Std Dev 0.9653

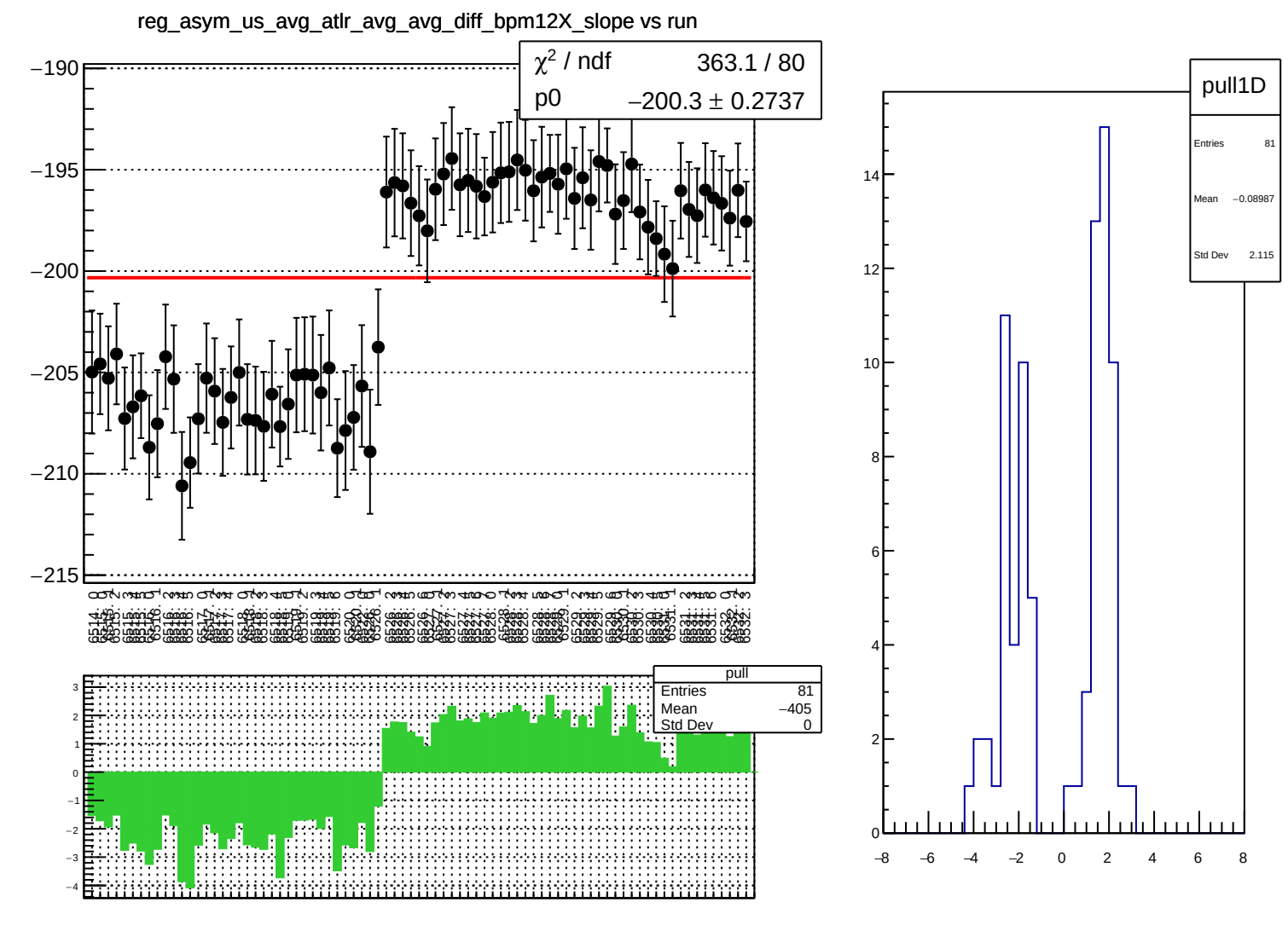

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 44.04 / 80
p0 −4.58 ± 6.403
pull
Entries 81
Mean 96.57
Std Dev 0
pull1D
Entries 81
Mean −0.1582
Std Dev 0.7202

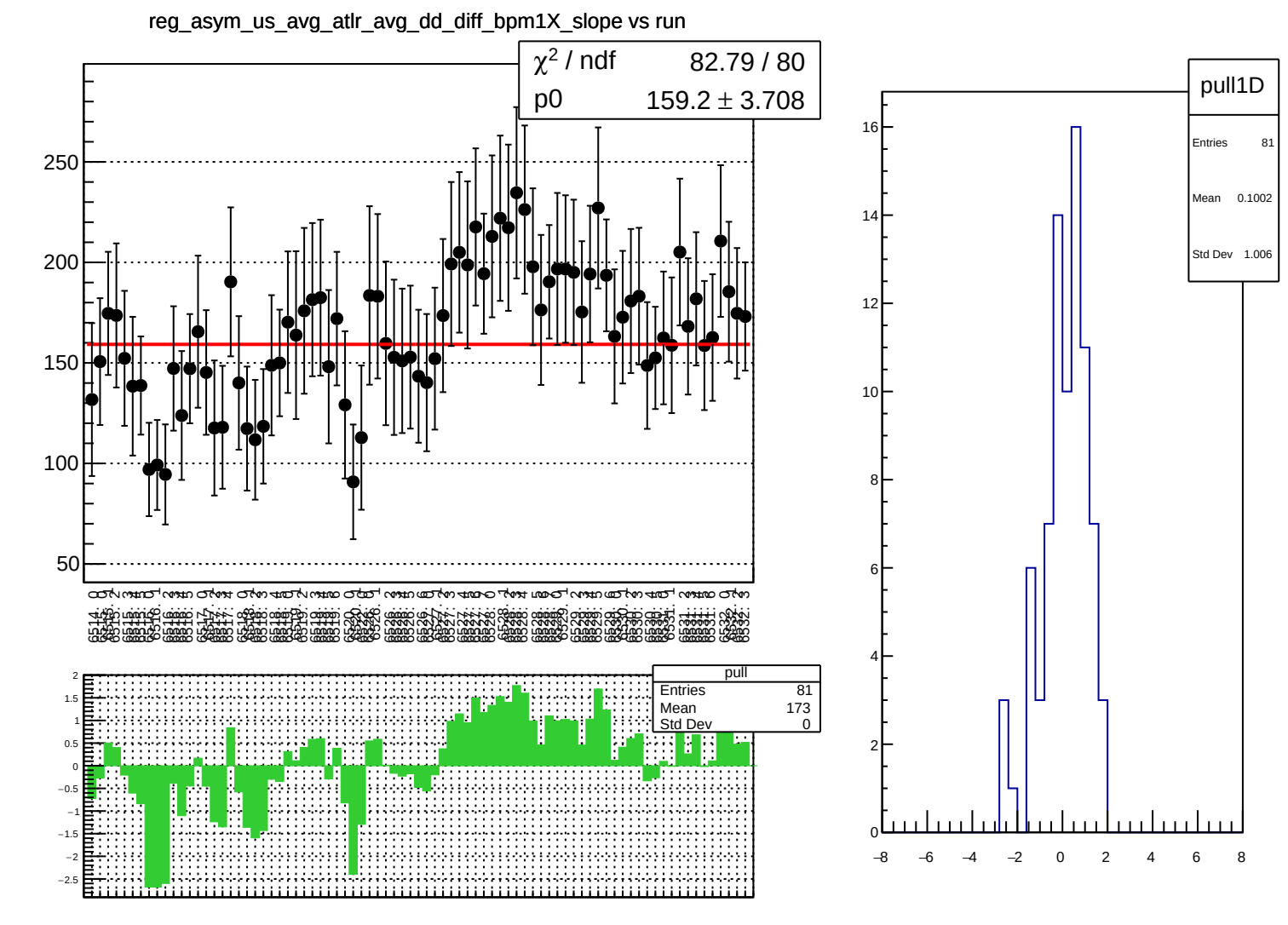

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 70.05 / 80
p0 305.1 ± 6.803
pull
Entries 81
Mean 185.4
Std Dev 0

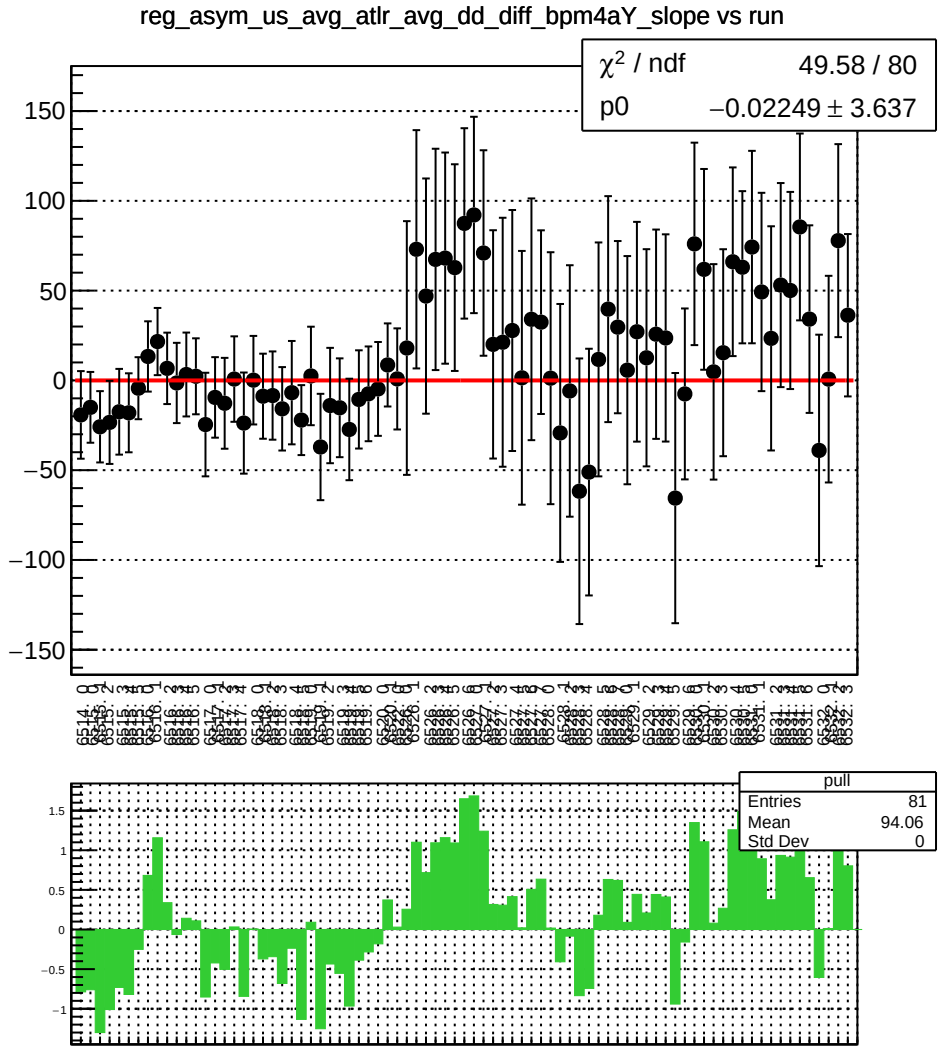

pull1D
Entries 81
Mean 0.08639
Std Dev 0.9259

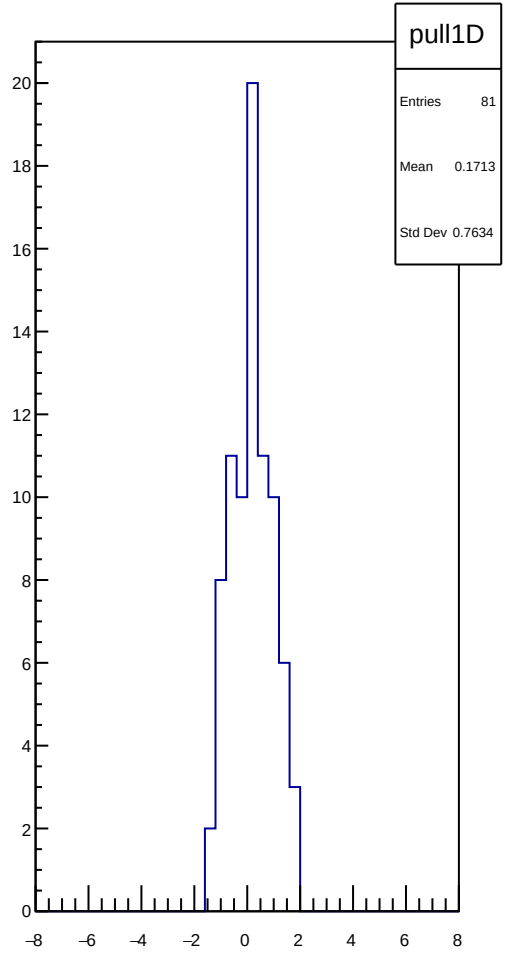

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 37.77 / 80
p0 116.9 ± 7.35
pull
Entries 81
Mean 120.2
Std Dev 0

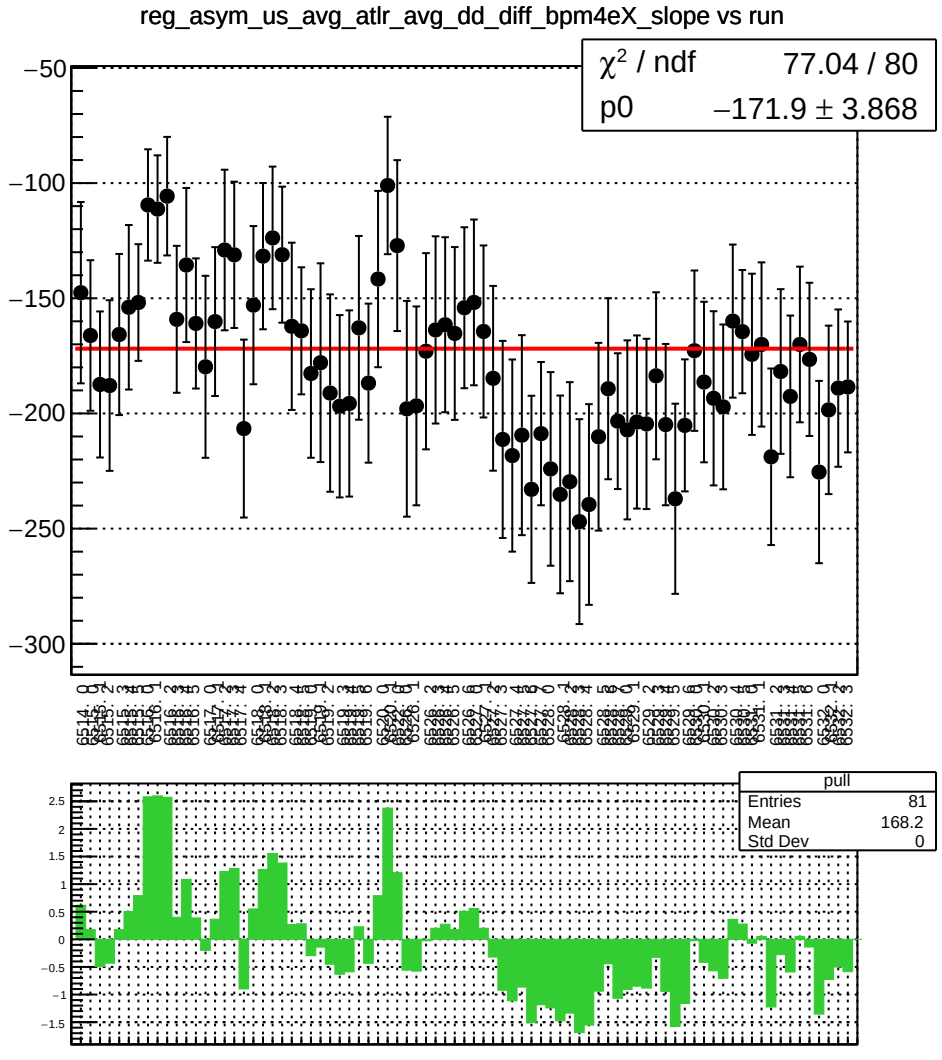

pull1D
Entries 81
Mean 0.08566
Std Dev 0.6774

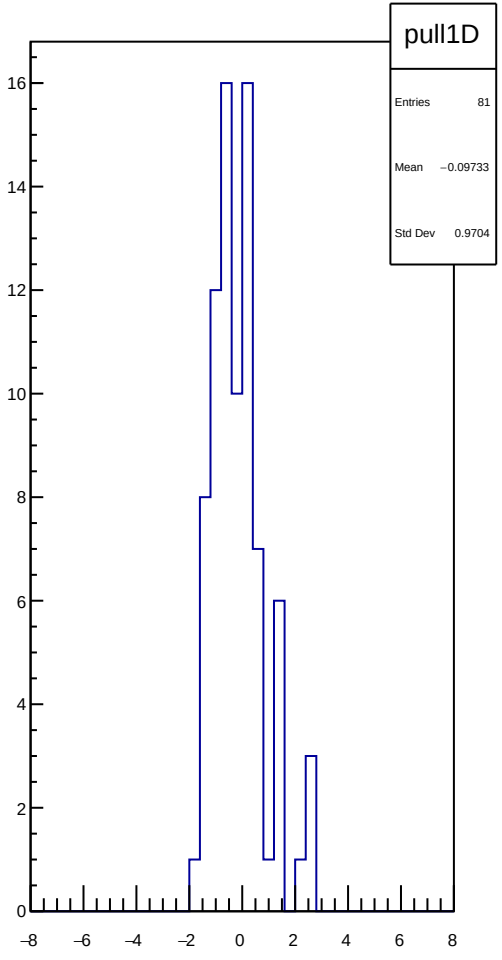

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 363.1 / 80
p0 −200.3 ± 0.2737
−190
−195
−200
−205
−210
−215
pull
Entries 81
Mean −405
Std Dev 0
pull1D
Entries 81
Mean −0.08987
Std Dev 2.115

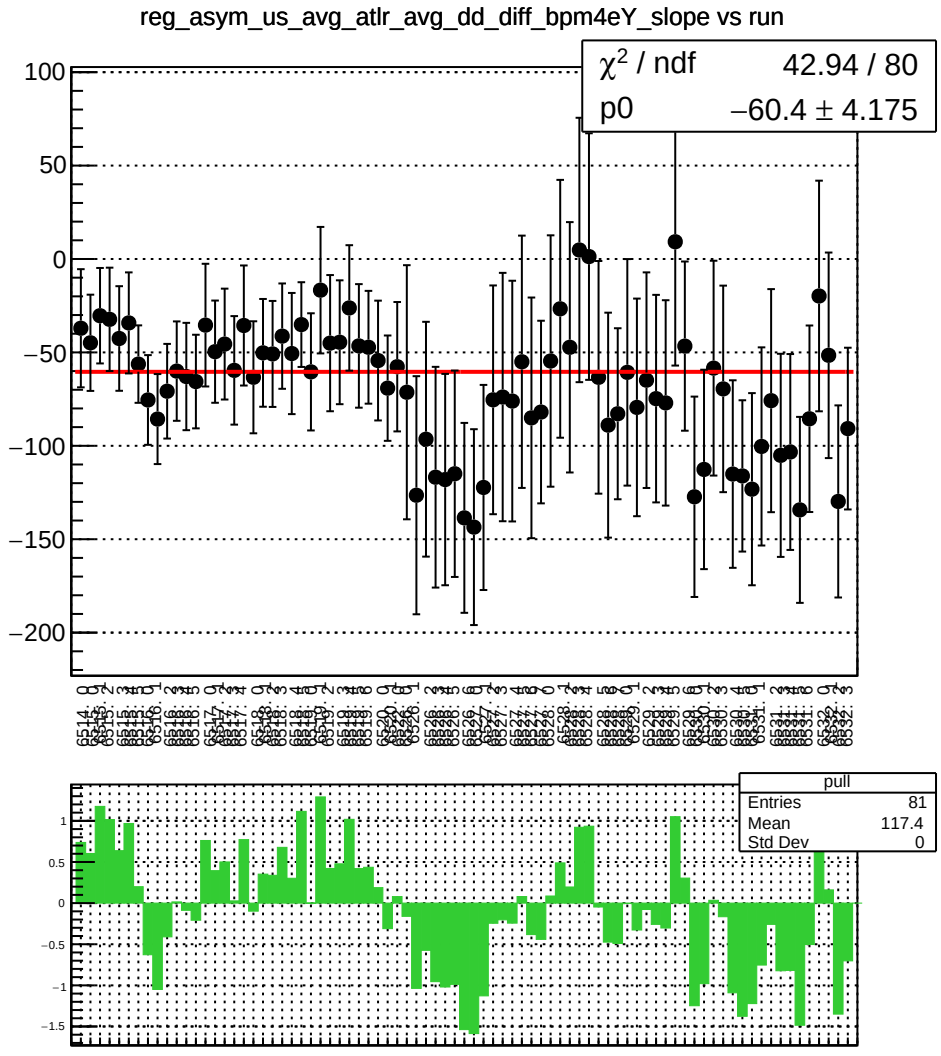

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 82.79 / 80
p0 159.2 ± 3.708
250
200
150
100
50
pull
Entries 81
Mean 173
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 81
Mean 0.1002
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

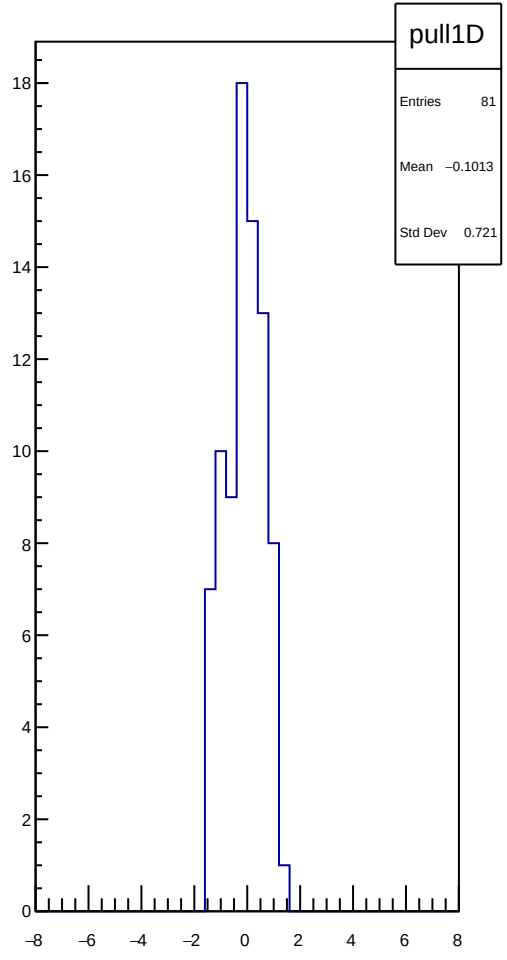

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 49.58 / 80
p0 −0.02249 ± 3.637
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean 94.06
Std Dev 0
1.5
1
0.5
0
−0.5
−1

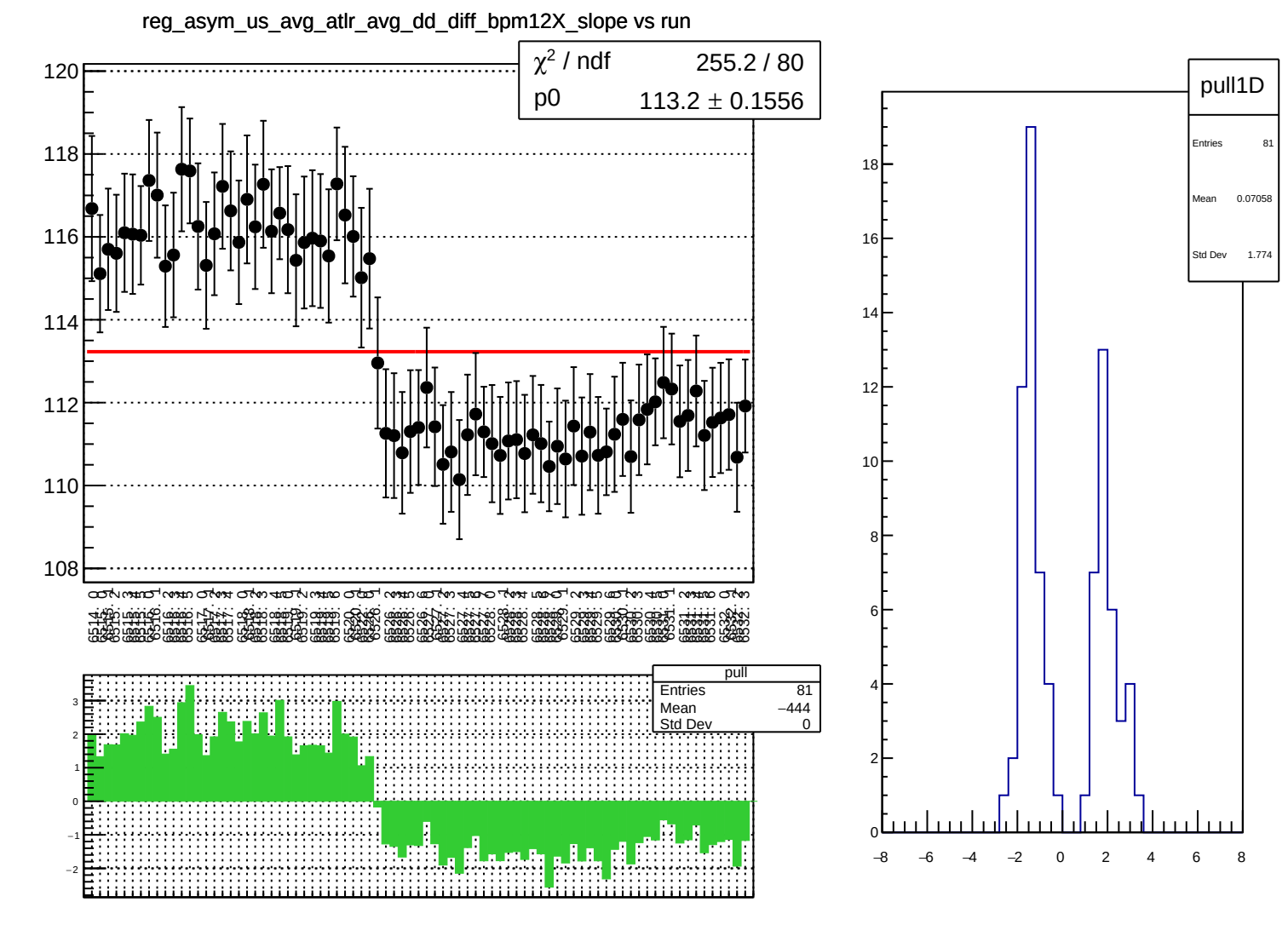

pull1D
Entries 81
Mean 0.1713
Std Dev 0.7634
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

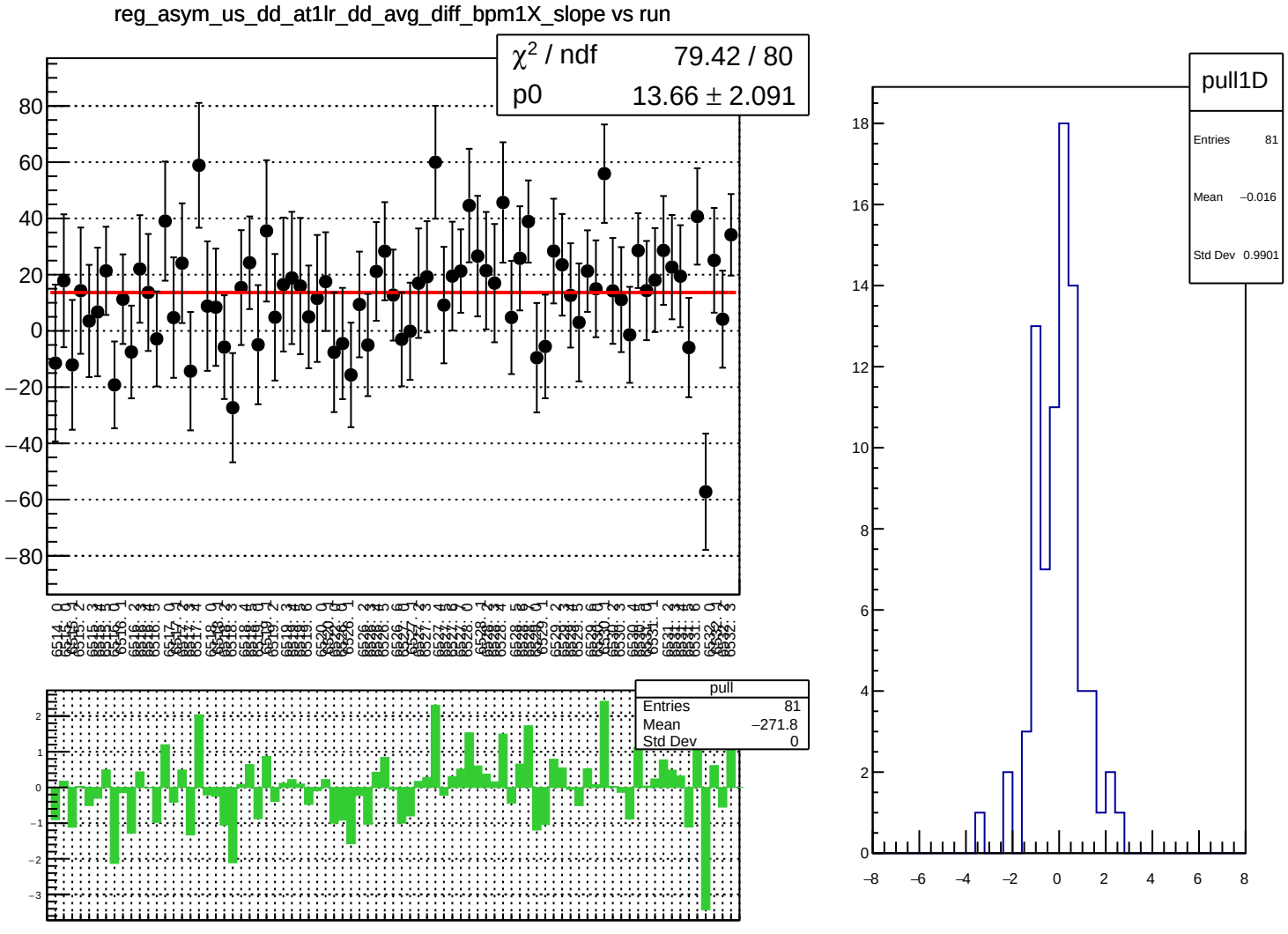

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 77.04 / 80
p0 −171.9 ± 3.868
pull
Entries 81
Mean 168.2
Std Dev 0

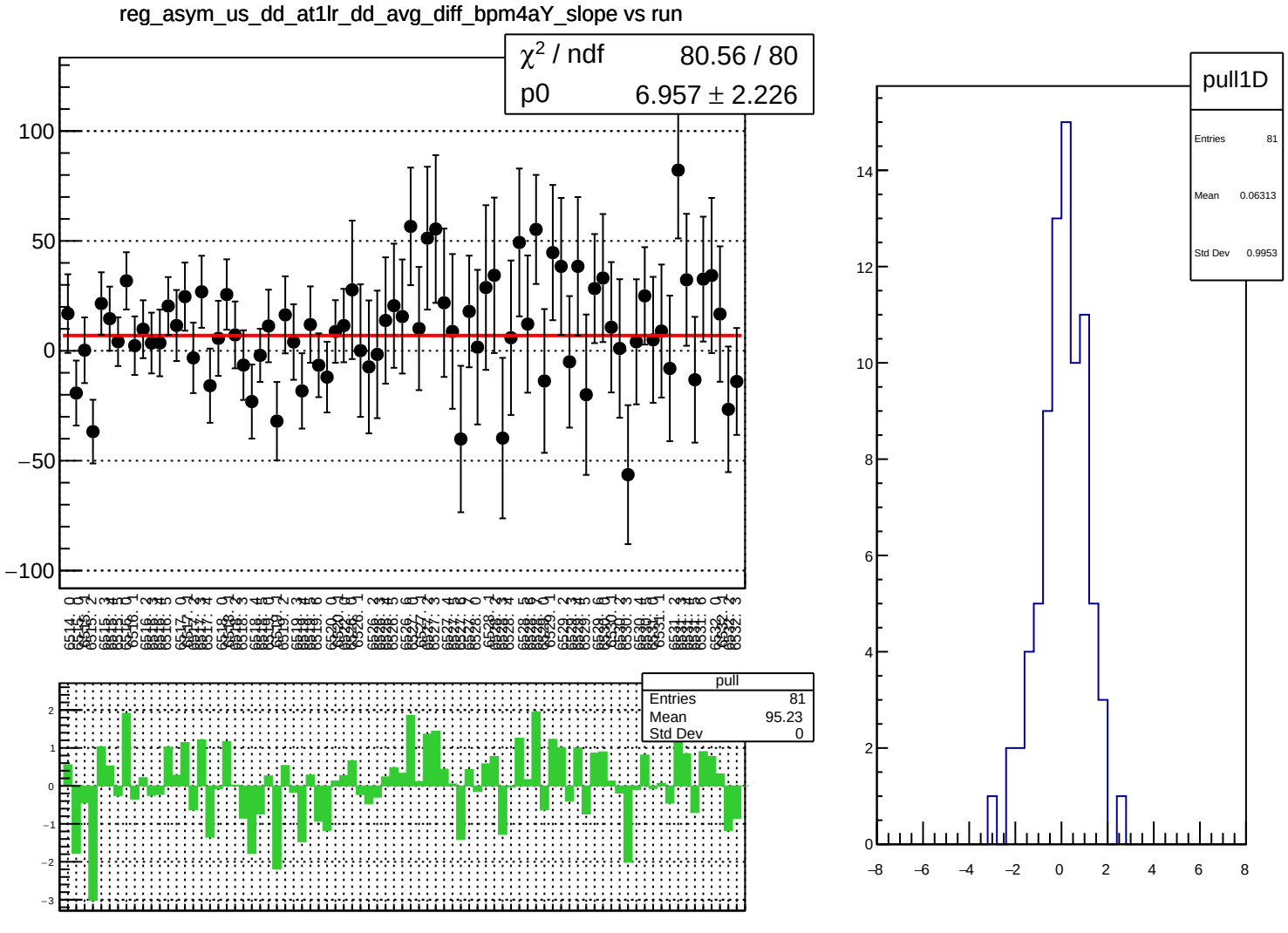

pull1D
Entries 81
Mean −0.09733
Std Dev 0.9704

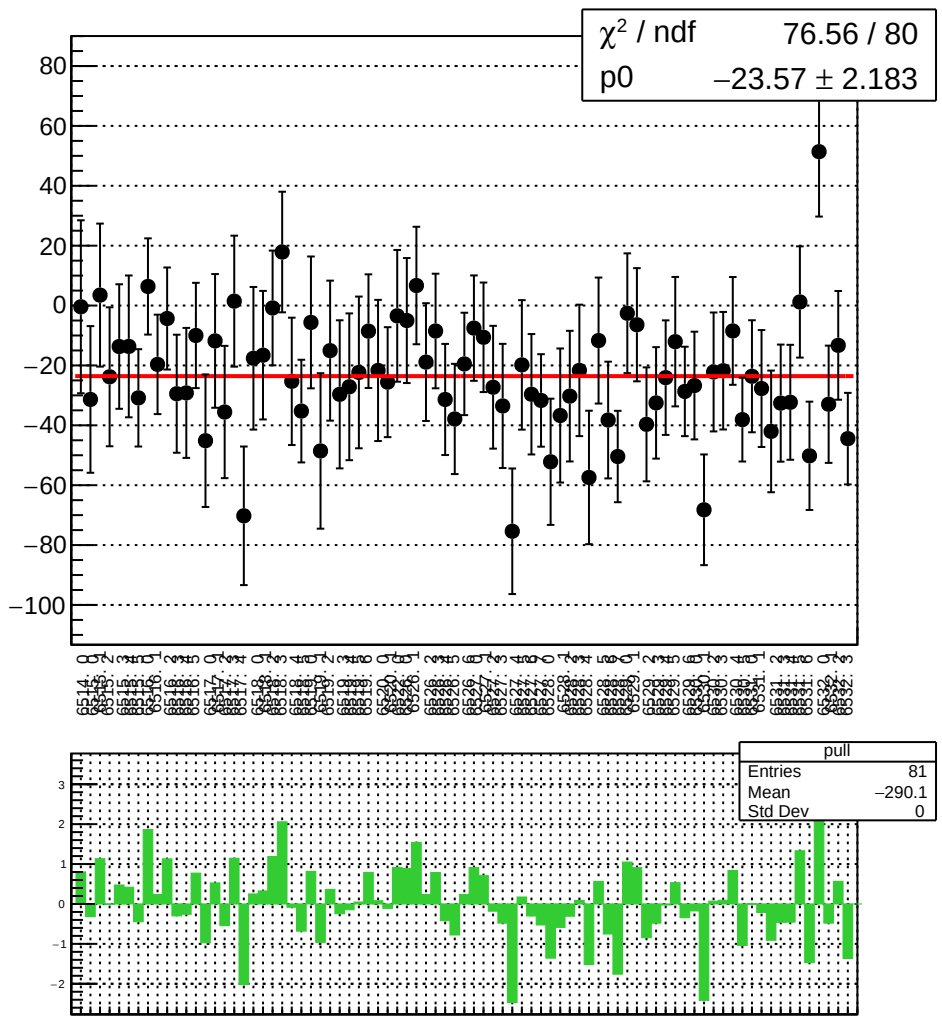

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 42.94 / 80
p0 −60.4 ± 4.175
pull
Entries 81
Mean 117.4
Std Dev 0

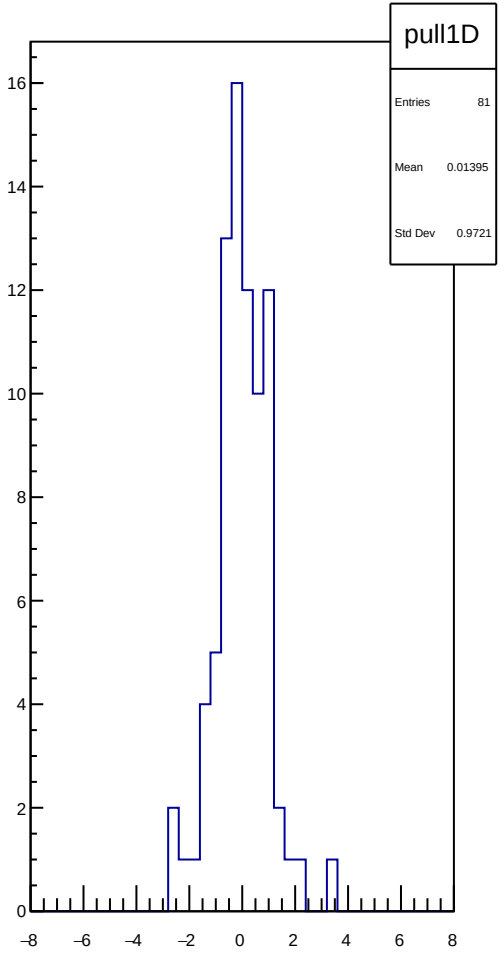

pull1D
Entries 81
Mean −0.1013
Std Dev 0.721

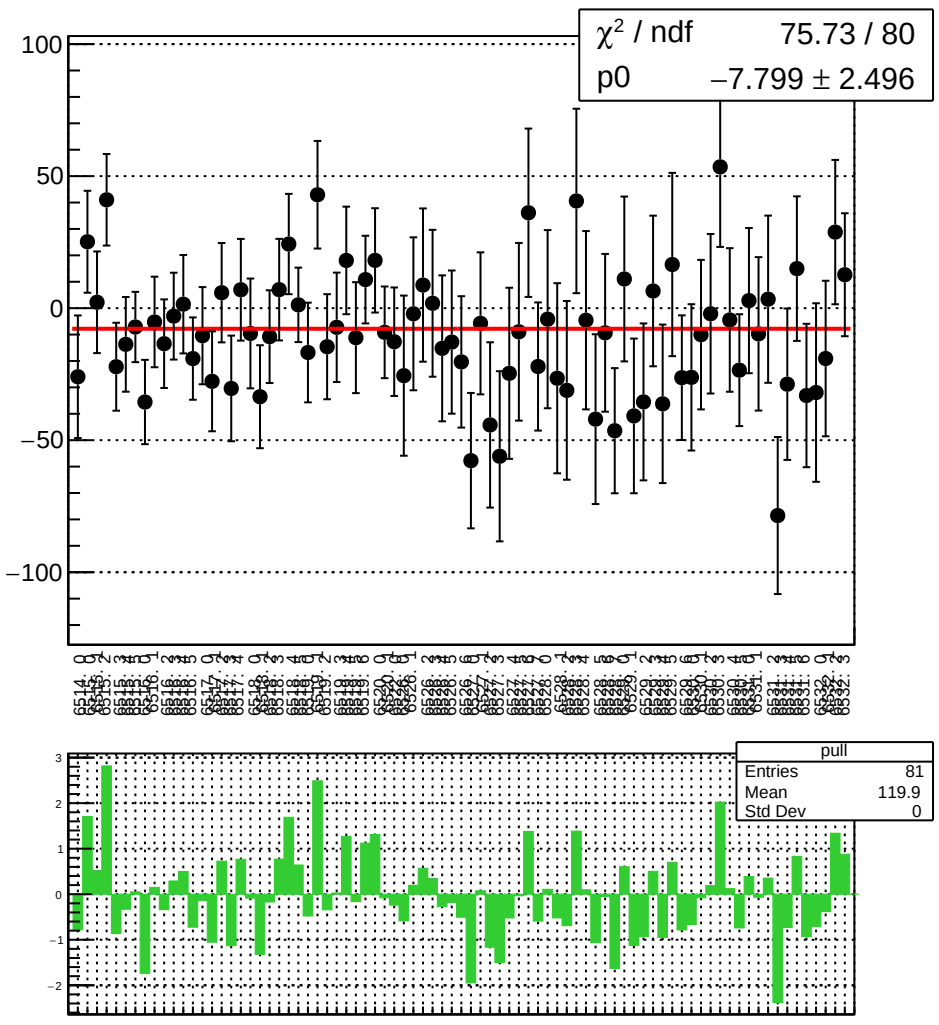

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 255.2 / 80
p0 113.2 ± 0.1556
120
118
116
114
112
110
108
pull
Entries 81
Mean −444
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 81
Mean 0.07058
Std Dev 1.774
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

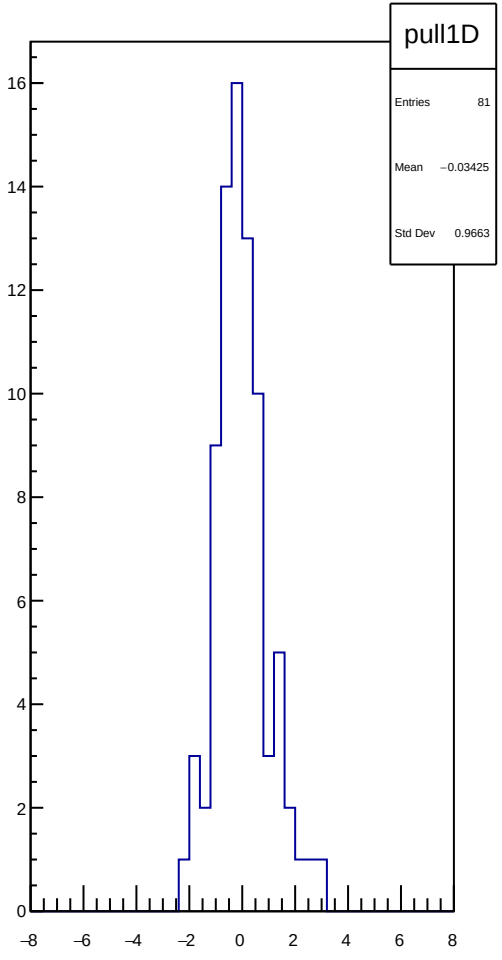

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 79.42 / 80
p0 13.66 ± 2.091
pull
Entries 81
Mean −271.8
Std Dev 0
pull1D
Entries 81
Mean −0.016
Std Dev 0.9901

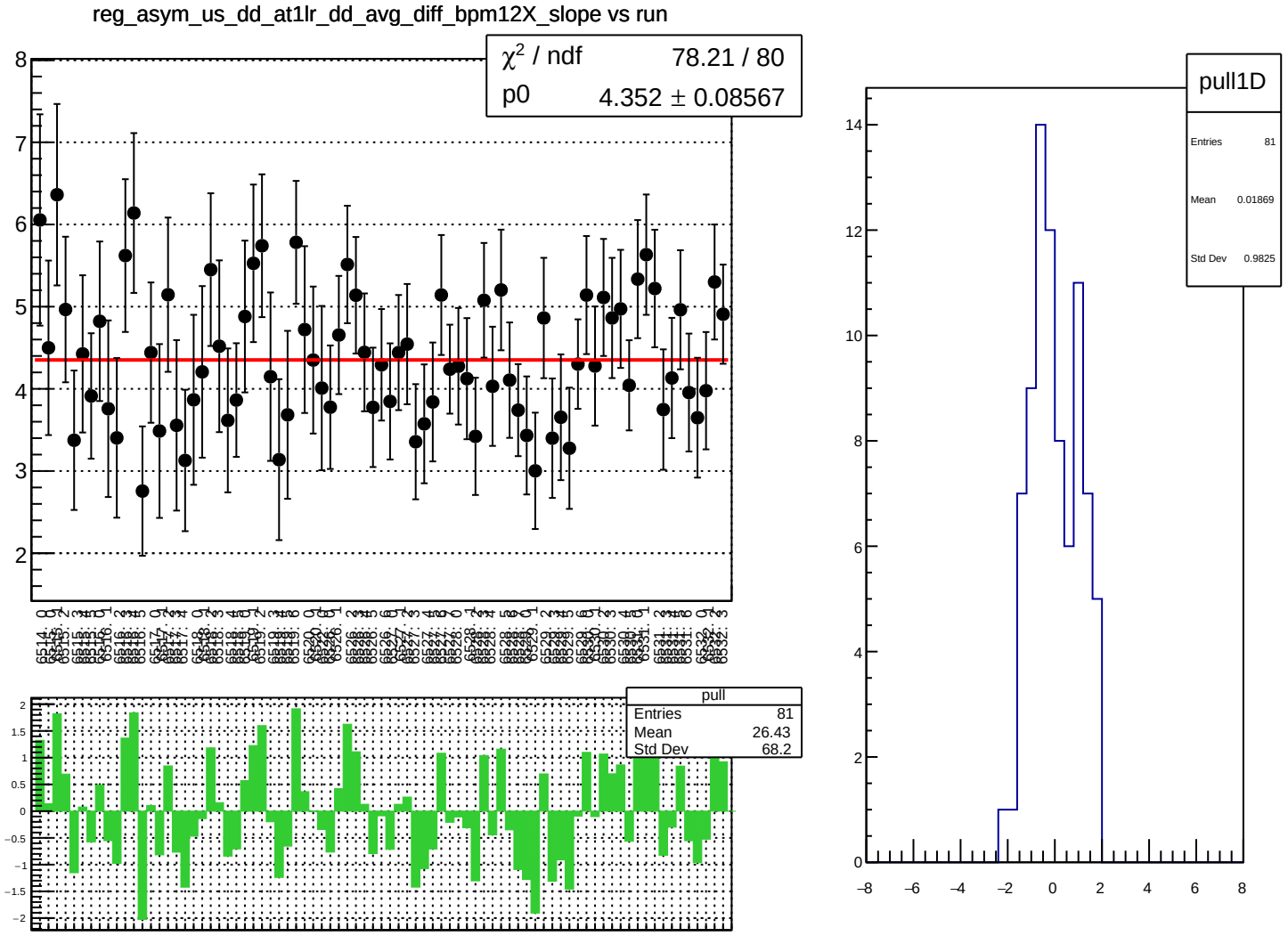

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 80.56 / 80
p0 6.957 ± 2.226
100
50
0
−50
−100
pull
Entries 81
Mean 95.23
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 81
Mean 0.06313
Std Dev 0.9953
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

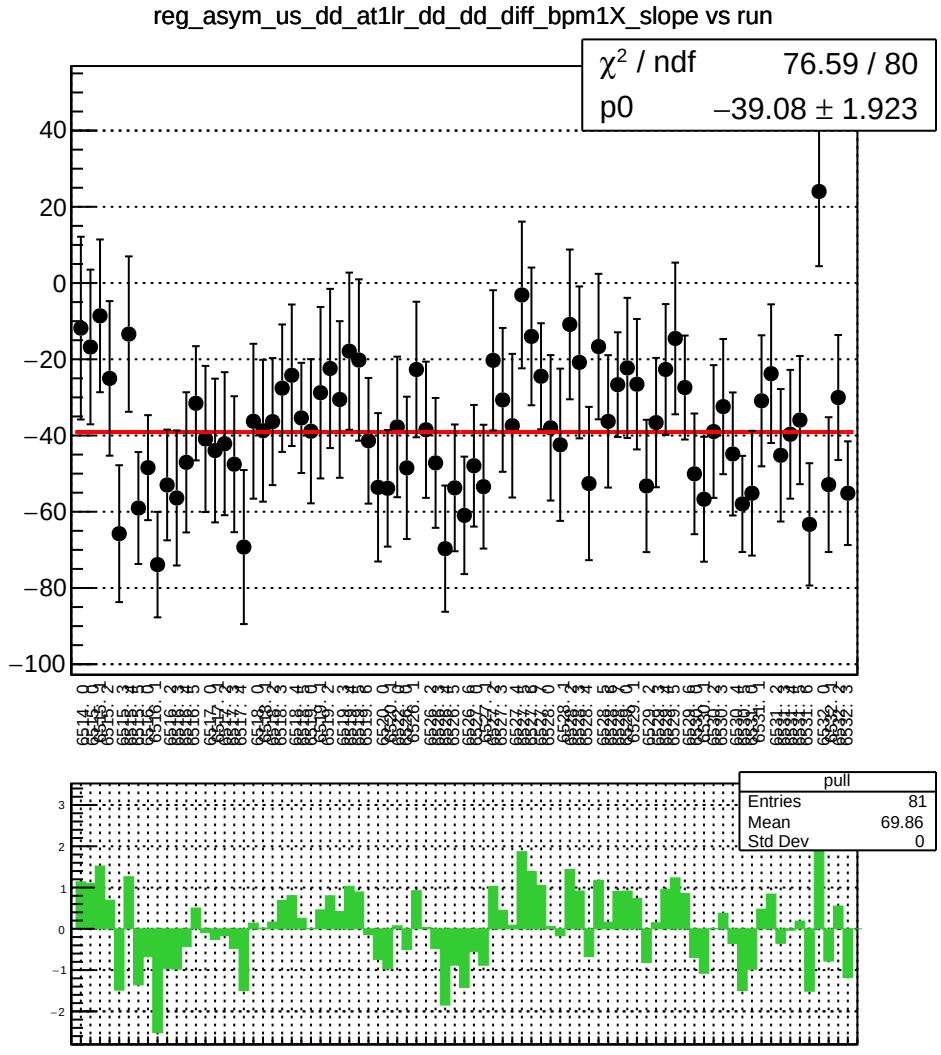

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 76.56 / 80
p0 −23.57 ± 2.183
pull
Entries 81
Mean −290.1
Std Dev 0

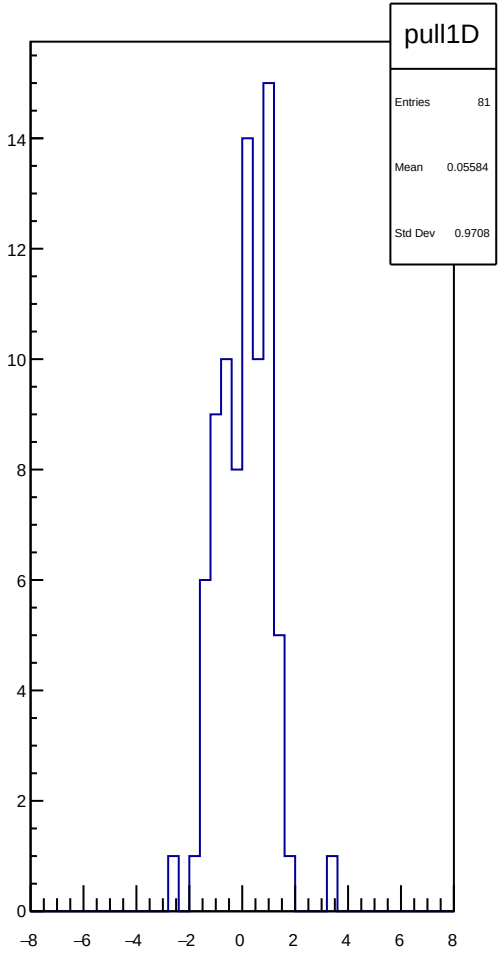

pull1D
Entries 81
Mean 0.01395
Std Dev 0.9721

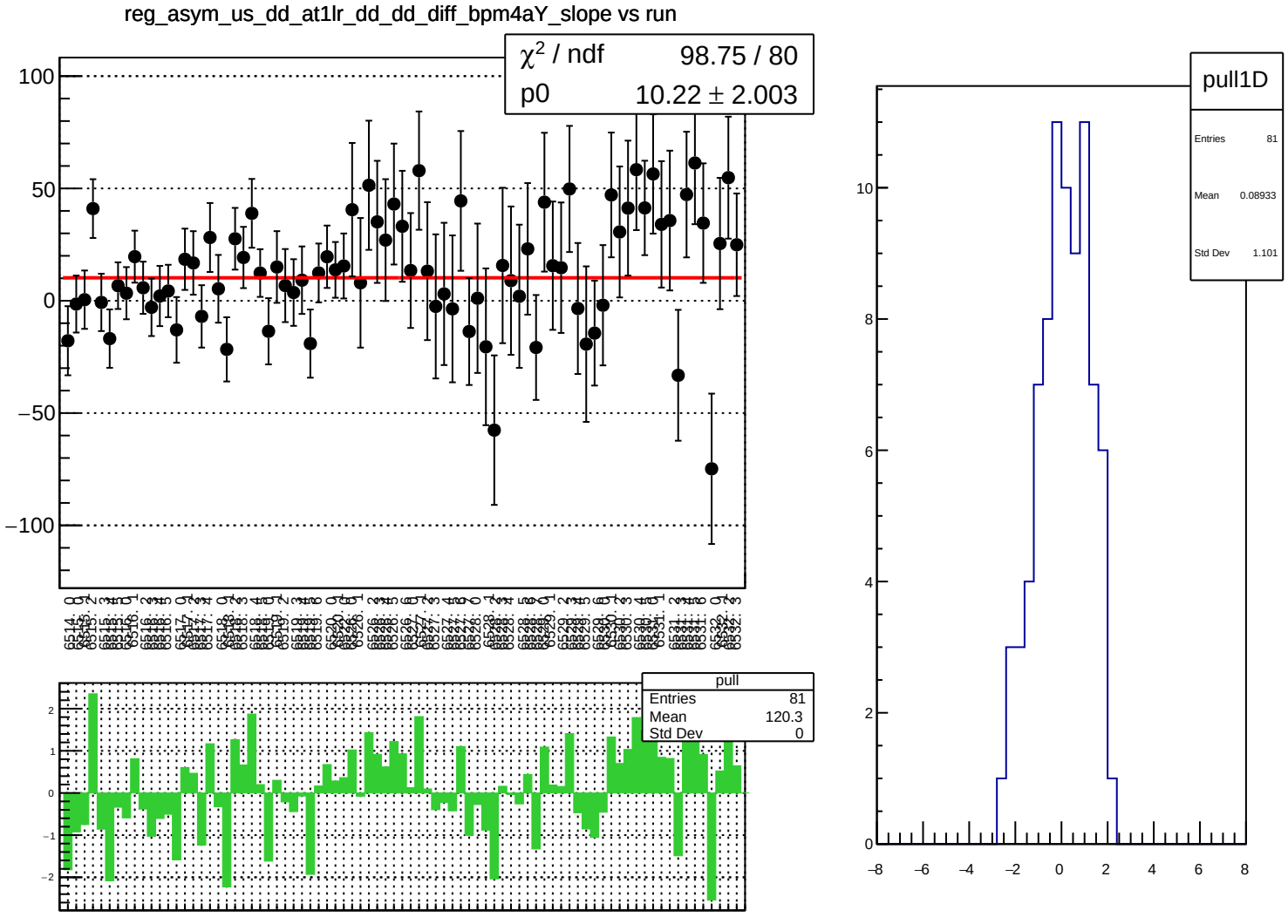

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 75.73 / 80
p0 −7.799 ± 2.496
pull
Entries 81
Mean 119.9
Std Dev 0

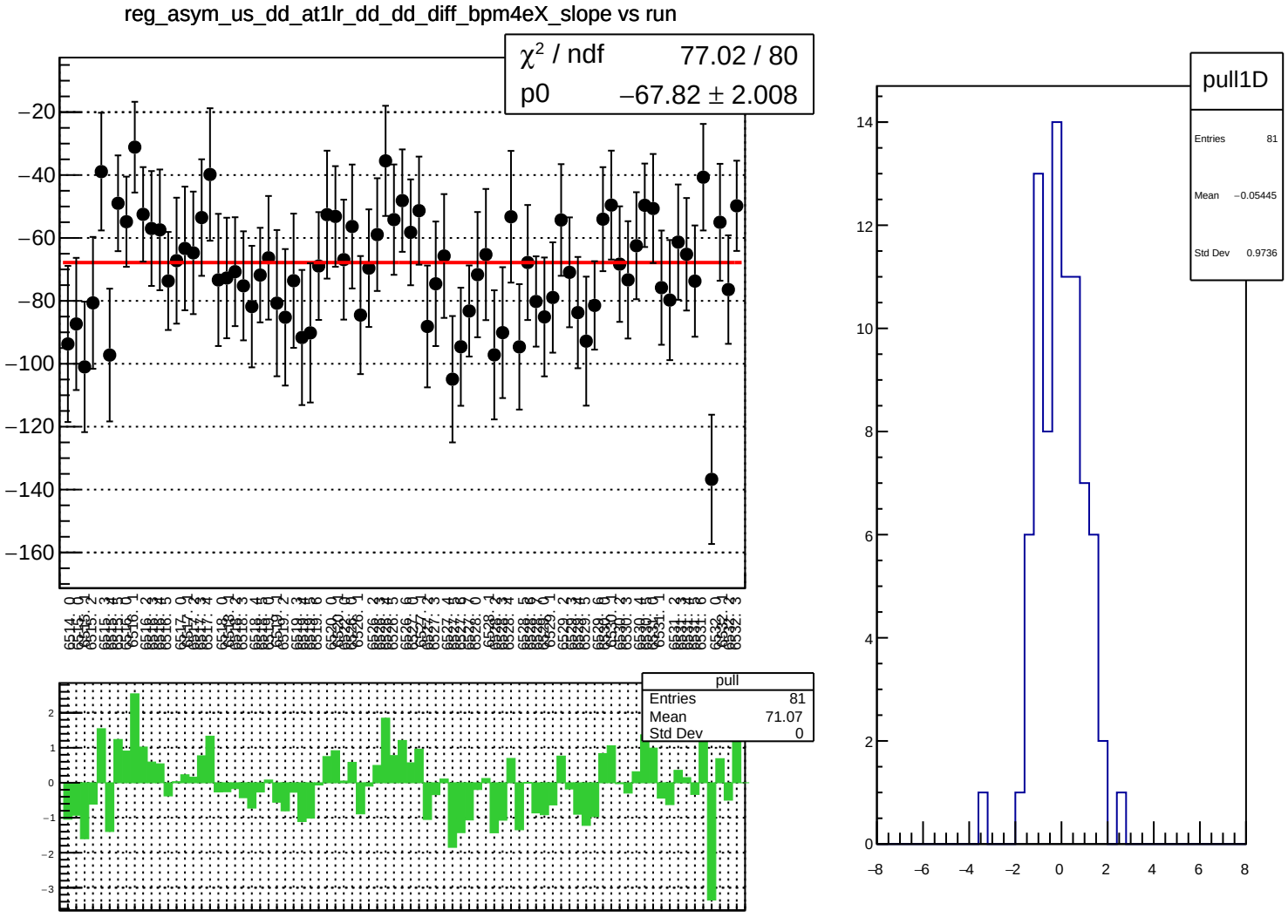

pull1D
Entries 81
Mean −0.03425
Std Dev 0.9663

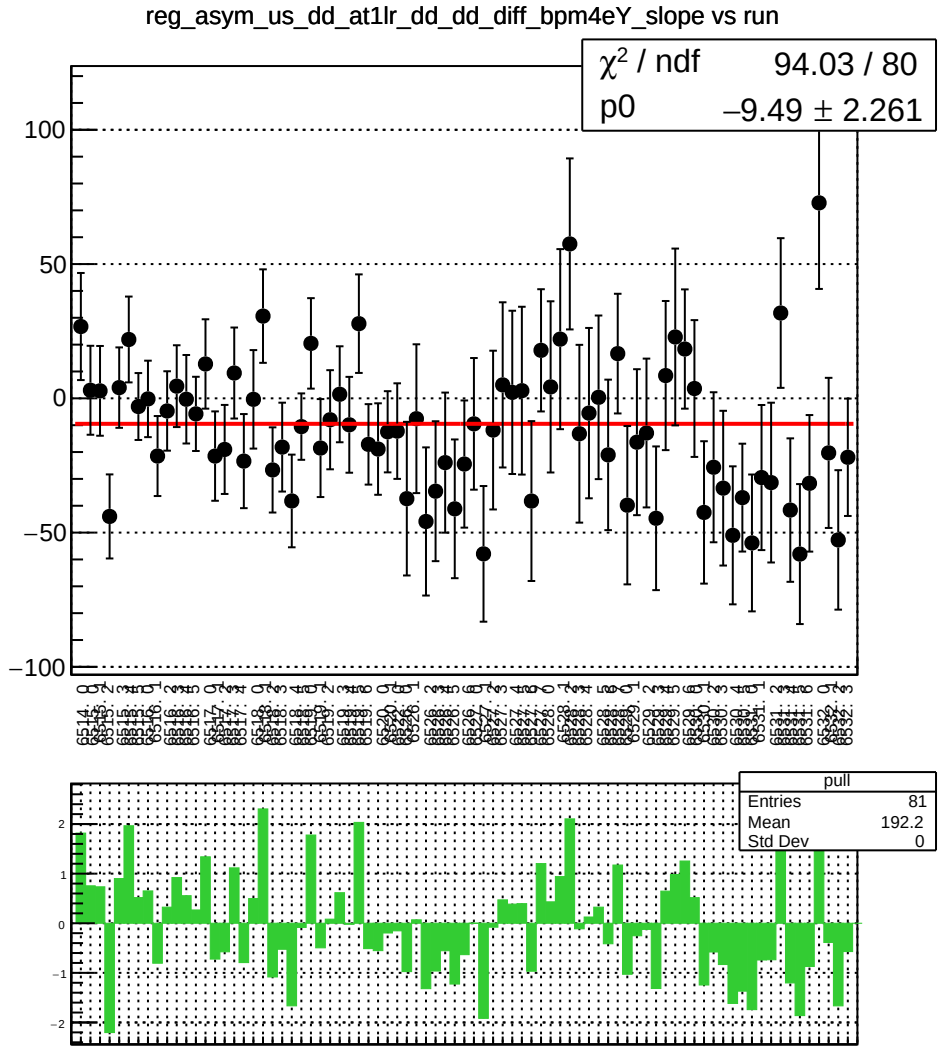

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 78.21 / 80
p0 4.352 ± 0.08567
pull
Entries 81
Mean 26.43
Std Dev 68.2
pull1D
Entries 81
Mean 0.01869
Std Dev 0.9825

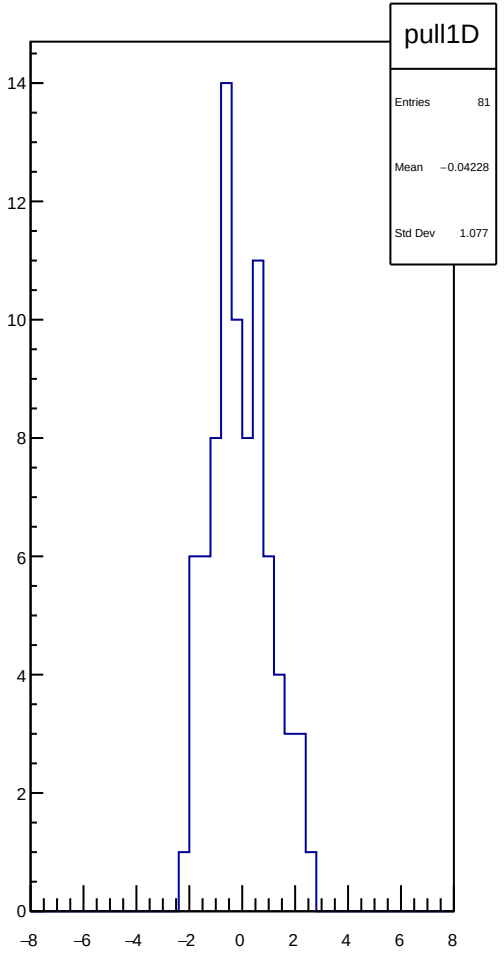

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 76.59 / 80
p0 −39.08 ± 1.923
pull
Entries 81
Mean 69.86
Std Dev 0

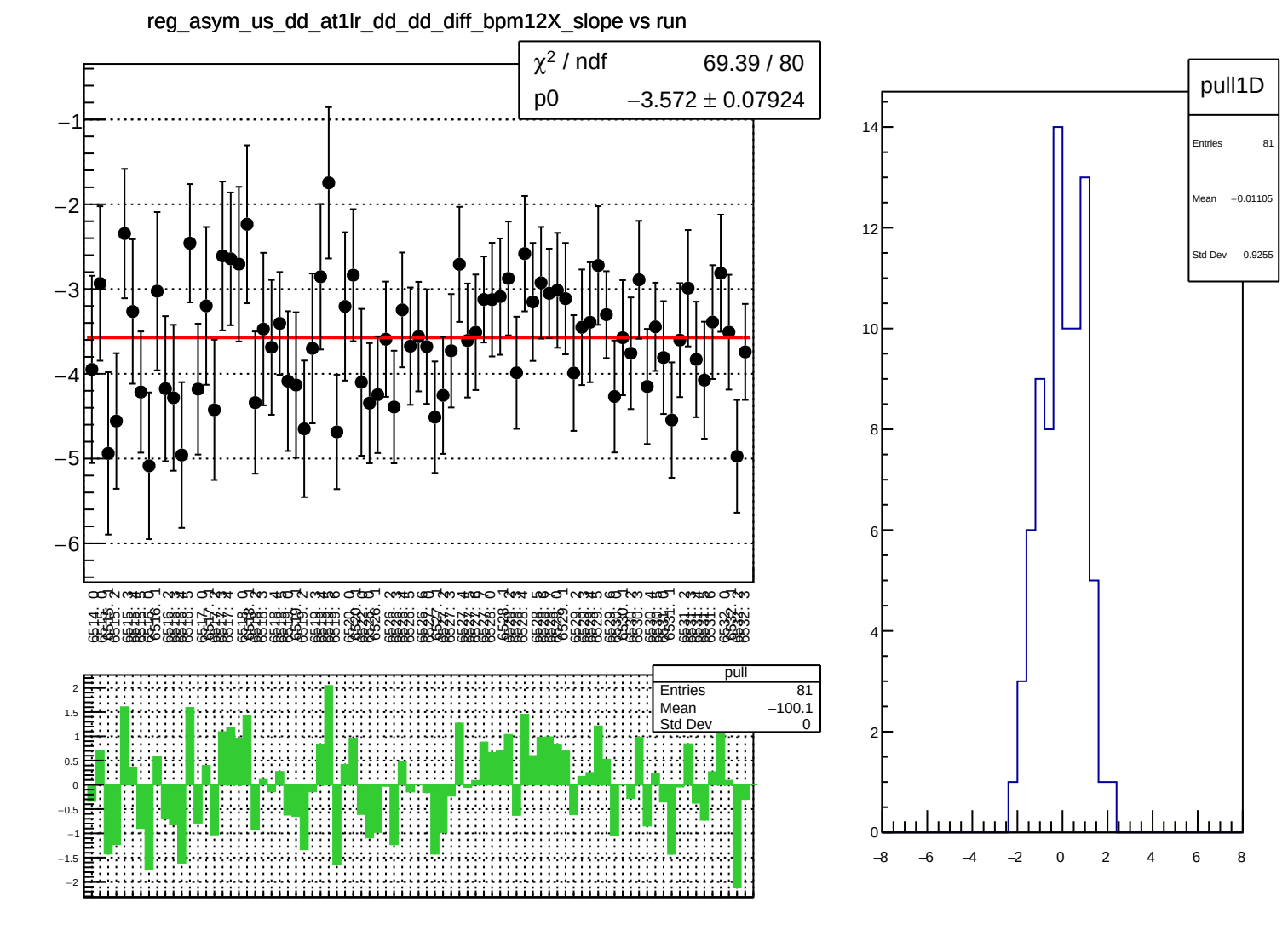

pull1D
Entries 81
Mean 0.05584
Std Dev 0.9708

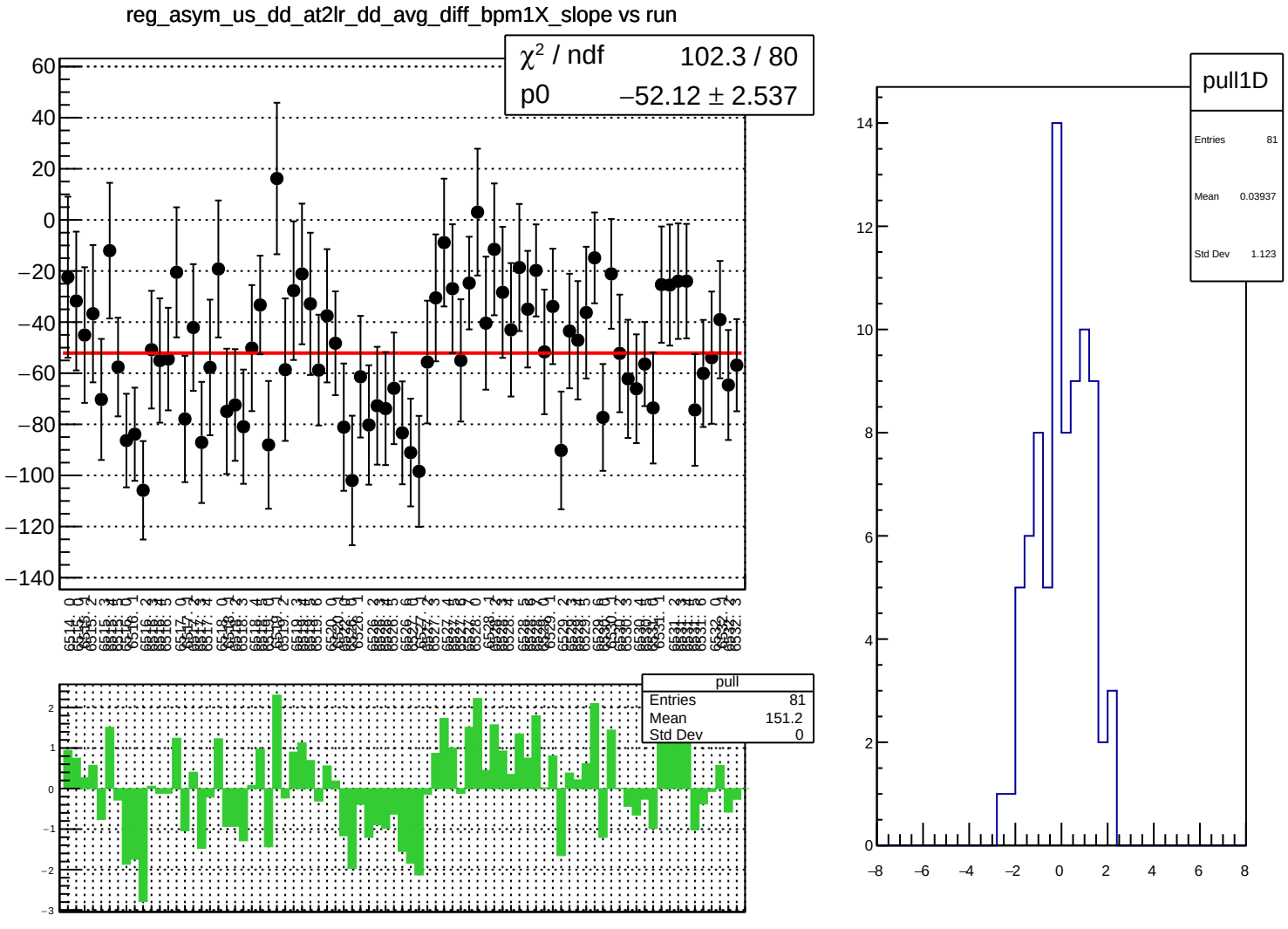

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 98.75 / 80
p0 10.22 ± 2.003
pull
Entries 81
Mean 120.3
Std Dev 0
pull1D
Entries 81
Mean 0.08933
Std Dev 1.101

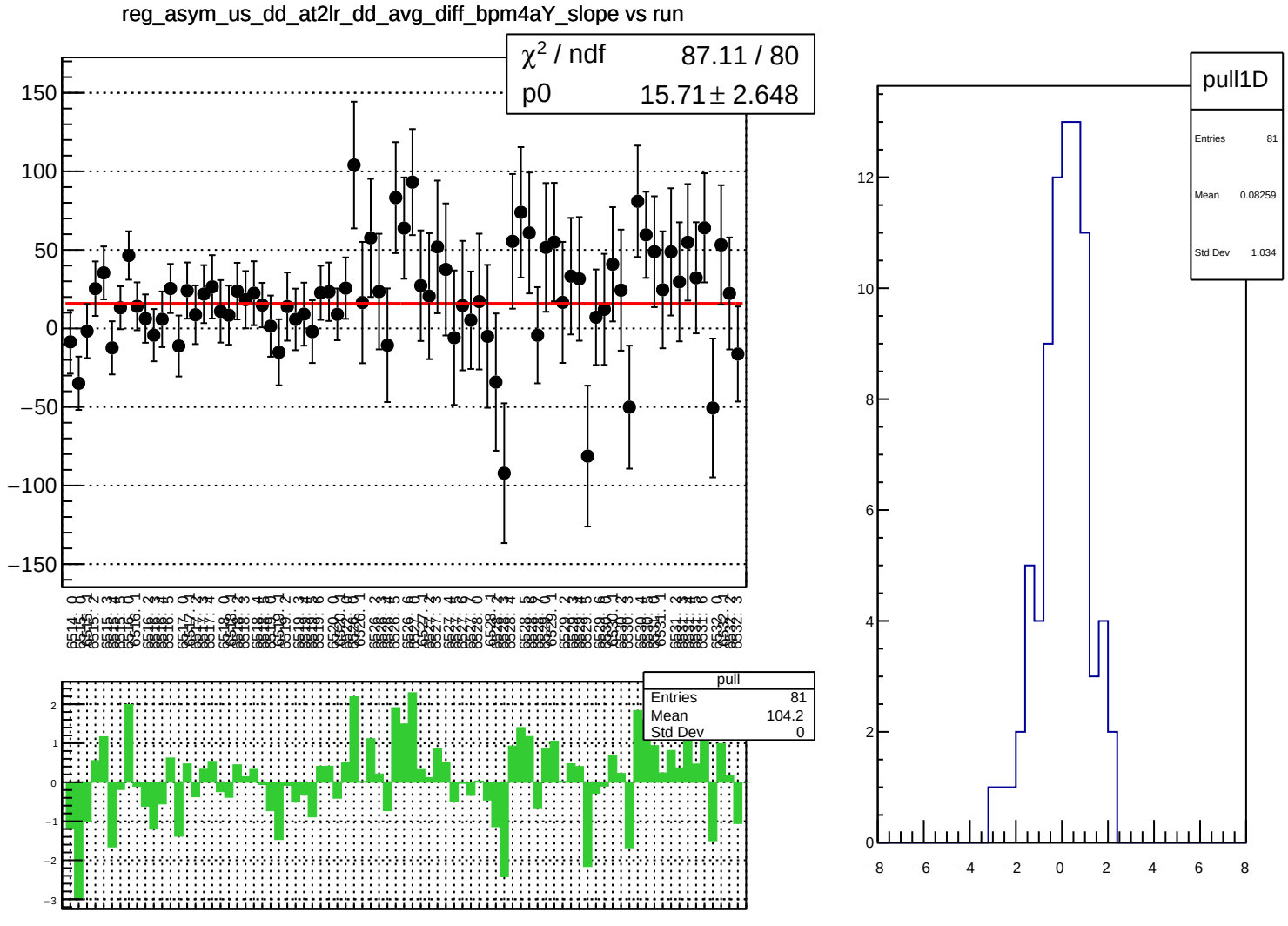

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 77.02 / 80
p0 −67.82 ± 2.008
pull
Entries 81
Mean 71.07
Std Dev 0
pull1D
Entries 81
Mean −0.05445
Std Dev 0.9736

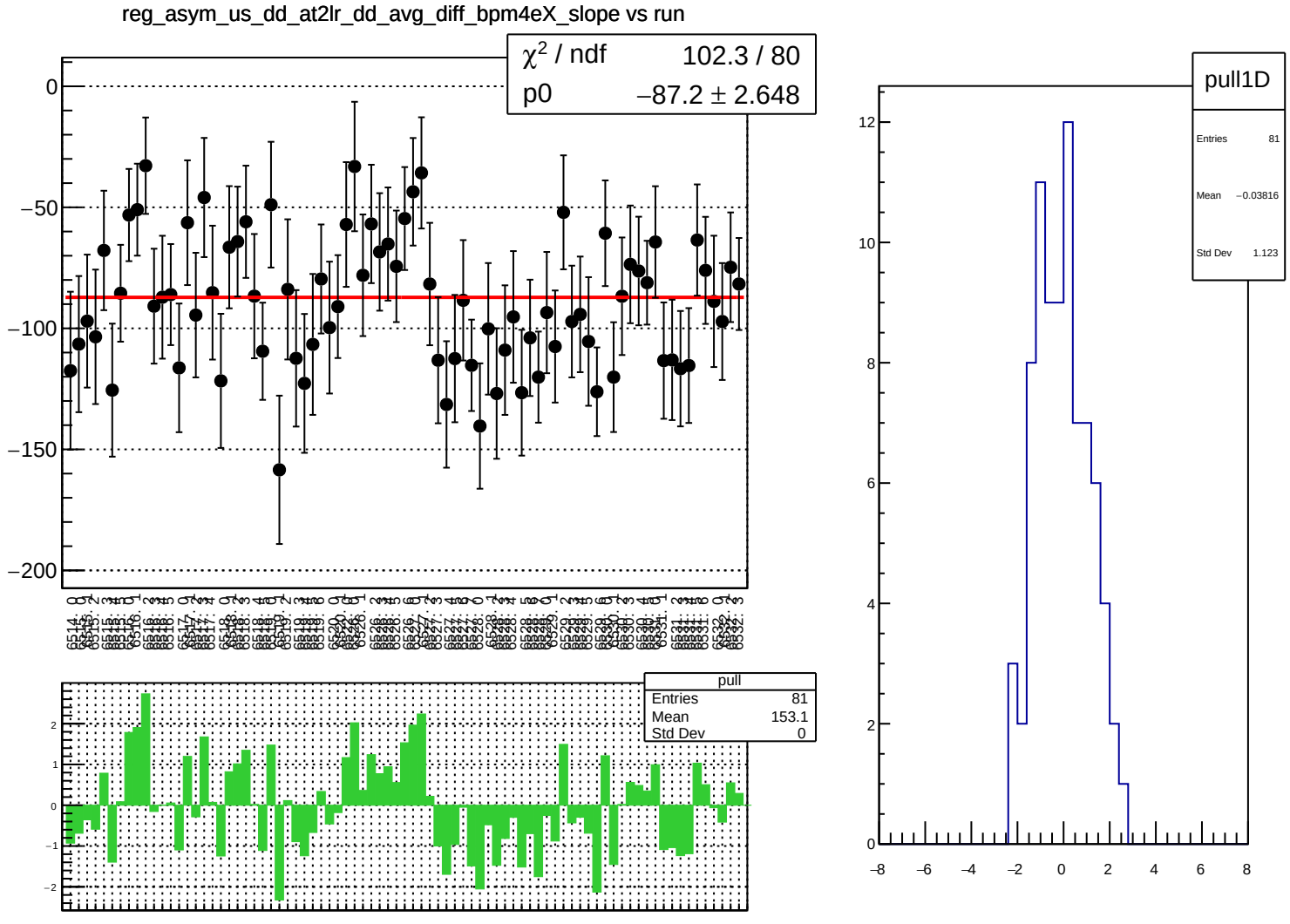

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 94.03 / 80
p0 −9.49 ± 2.261
pull
Entries 81
Mean 192.2
Std Dev 0

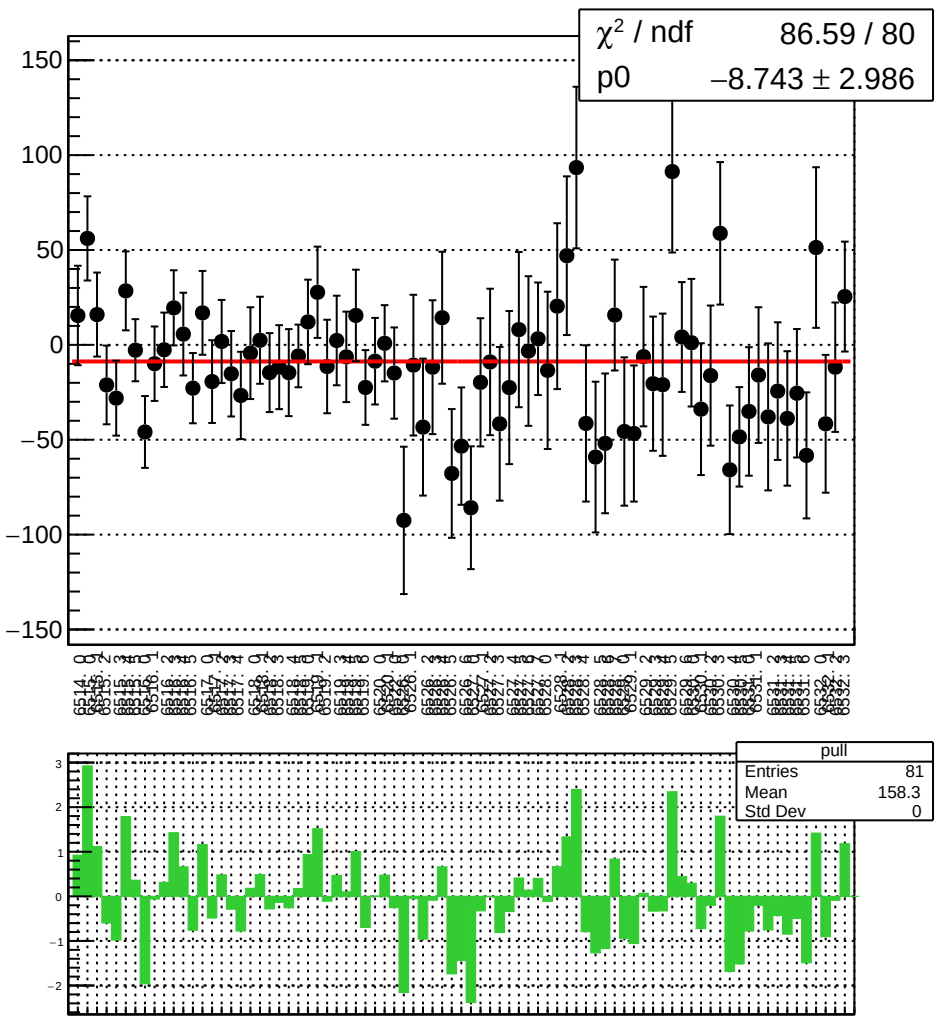

pull1D
Entries 81
Mean −0.04228
Std Dev 1.077

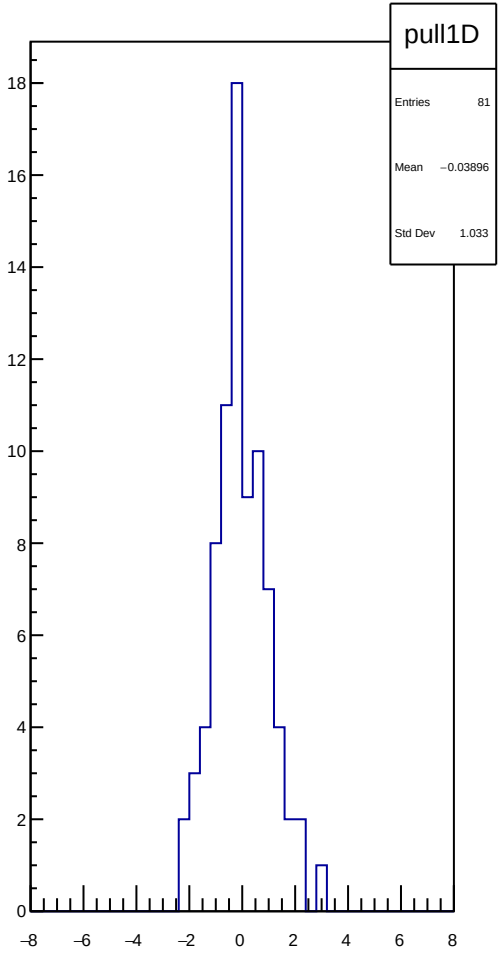

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 69.39 / 80
p0 −3.572 ± 0.07924
pull
Entries 81
Mean −100.1
Std Dev 0
pull1D
Entries 81
Mean −0.01105
Std Dev 0.9255

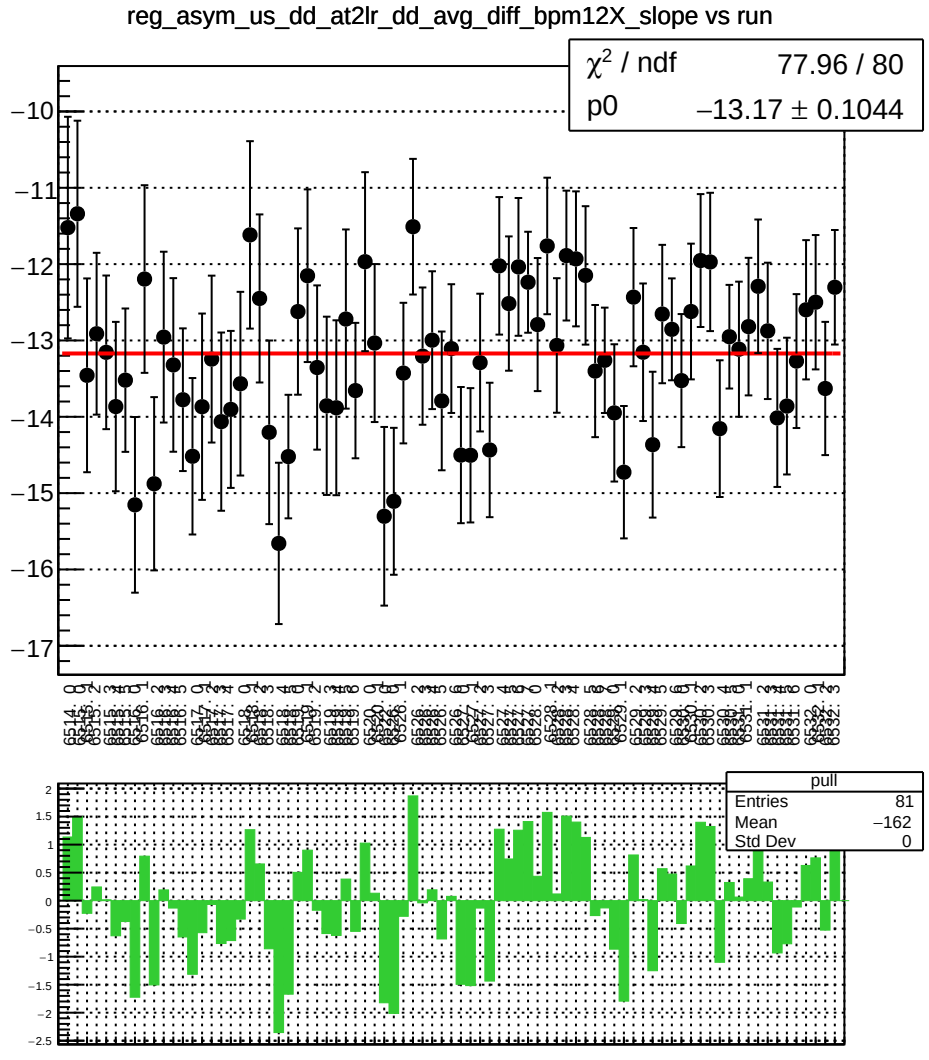

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 102.3 / 80
p0 −52.12 ± 2.537
pull
Entries 81
Mean 151.2
Std Dev 0
pull1D
Entries 81
Mean 0.03937
Std Dev 1.123

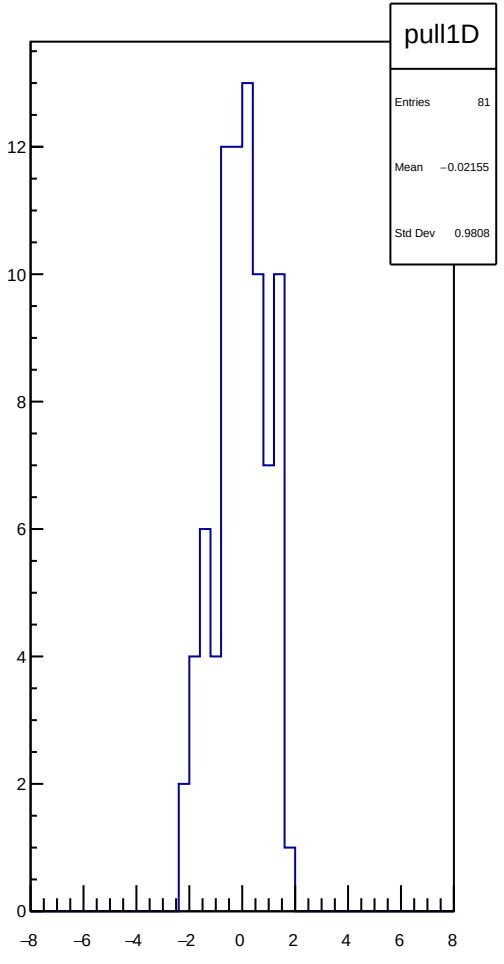

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 87.11 / 80
p0 15.71 ± 2.648
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean 104.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 81
Mean 0.08259
Std Dev 1.034
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

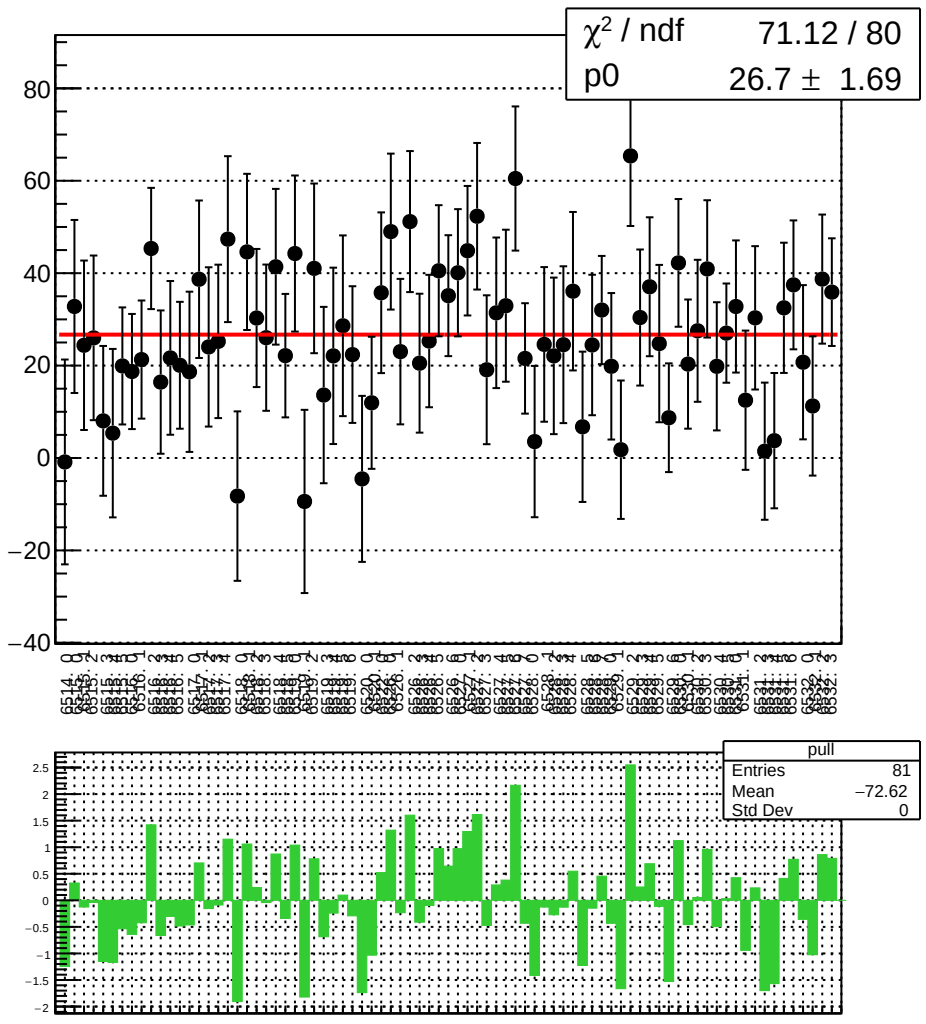

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 102.3 / 80
p0 −87.2 ± 2.648
0
−50
−100
−150
−200
pull
Entries 81
Mean 153.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 81
Mean −0.03816
Std Dev 1.123
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

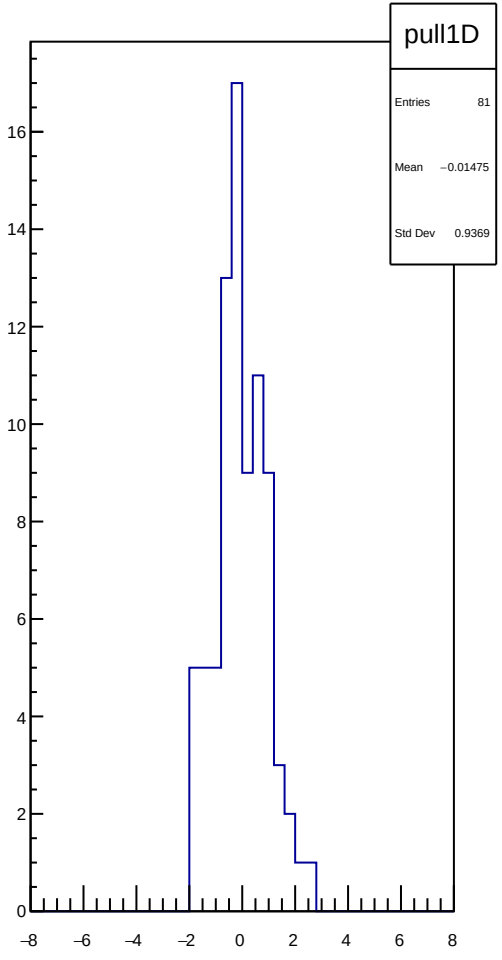

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 86.59 / 80
p0 −8.743 ± 2.986
pull
Entries 81
Mean 158.3
Std Dev 0

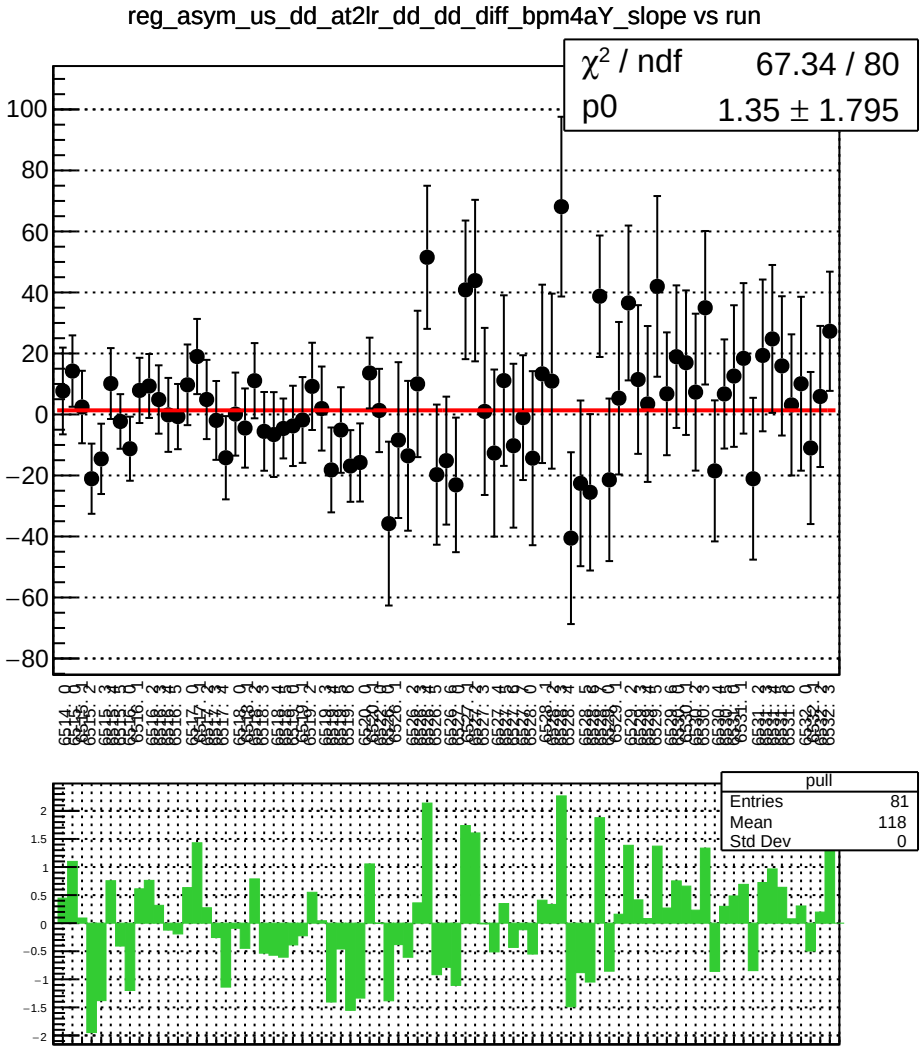

pull1D
Entries 81
Mean −0.03896
Std Dev 1.033

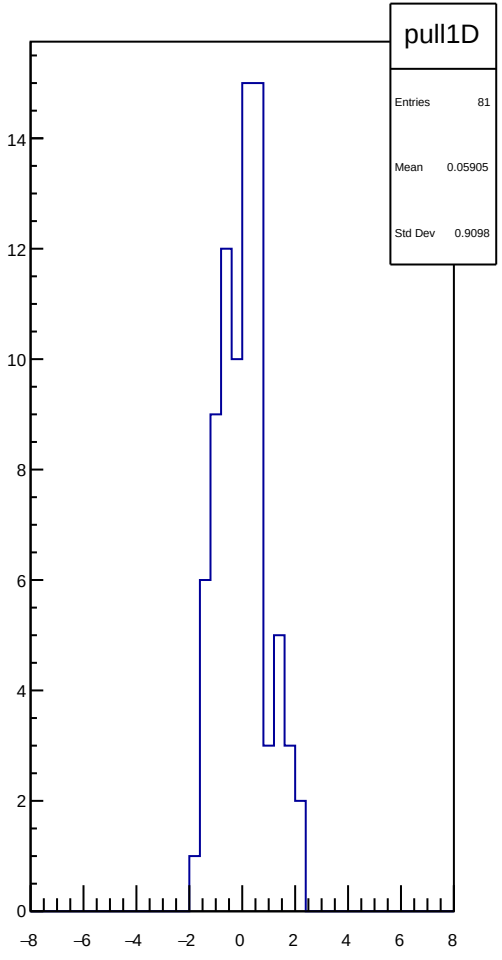

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 77.96 / 80
p0 −13.17 ± 0.1044
pull
Entries 81
Mean −162
Std Dev 0

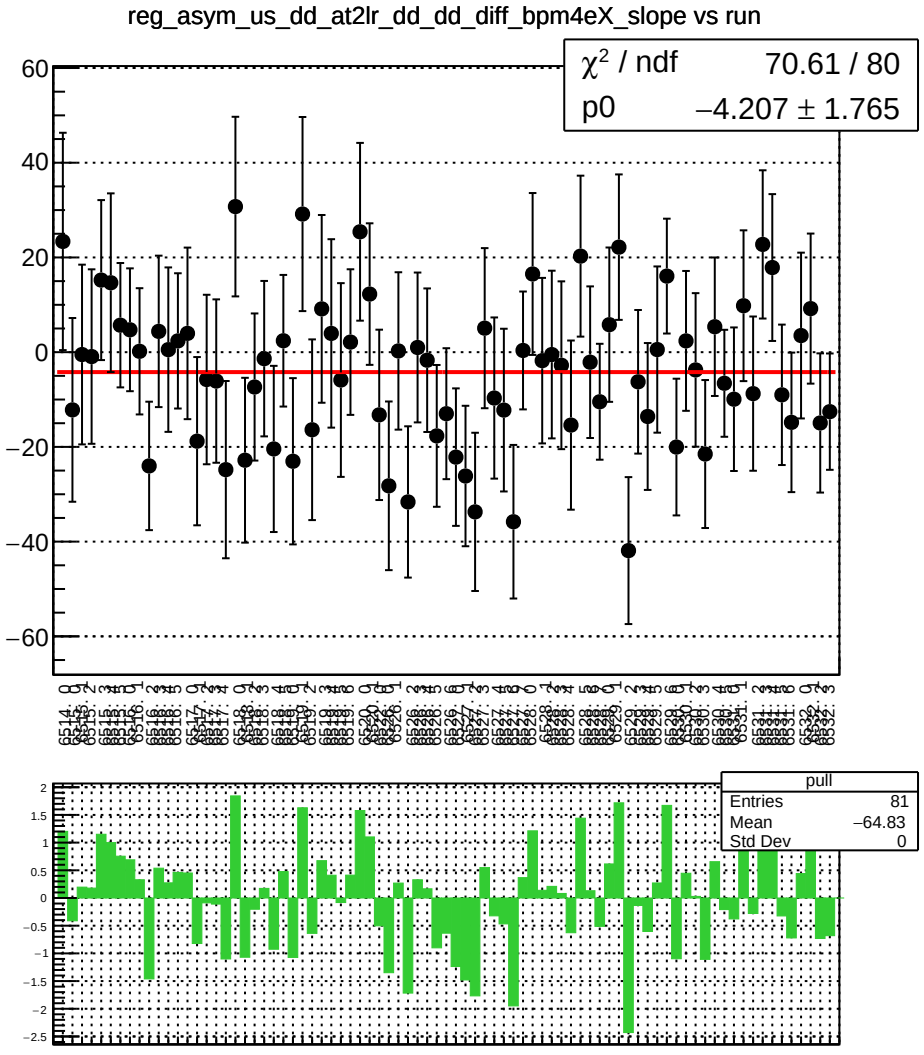

pull1D
Entries 81
Mean −0.02155
Std Dev 0.9808

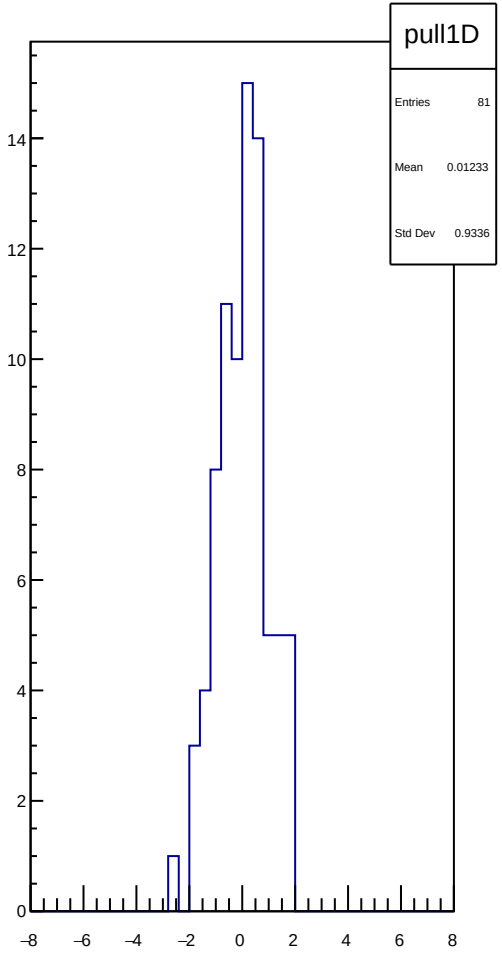

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 71.12 / 80
p0 26.7 ± 1.69
pull
Entries 81
Mean −72.62
Std Dev 0

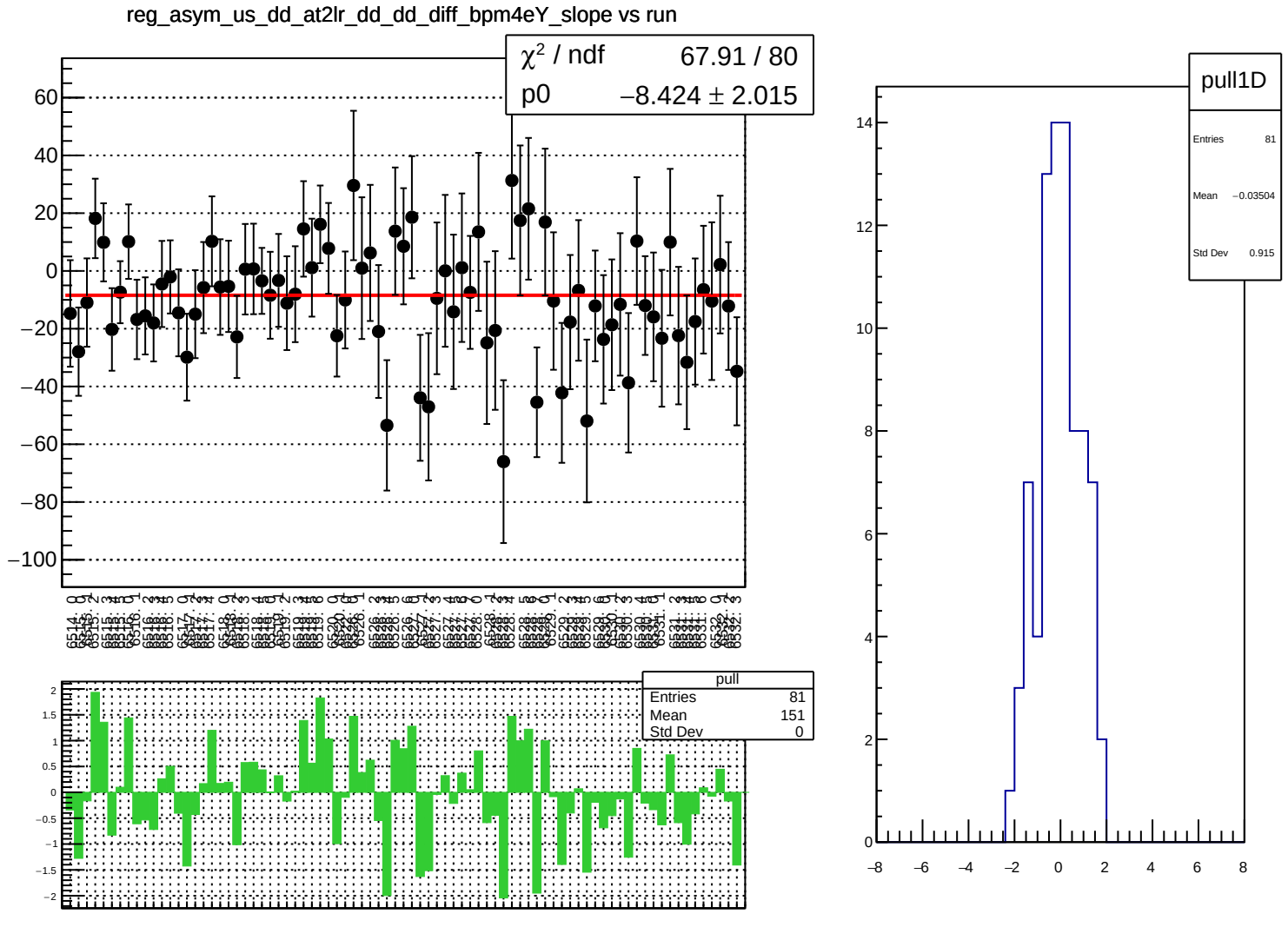

pull1D
Entries 81
Mean −0.01475
Std Dev 0.9369

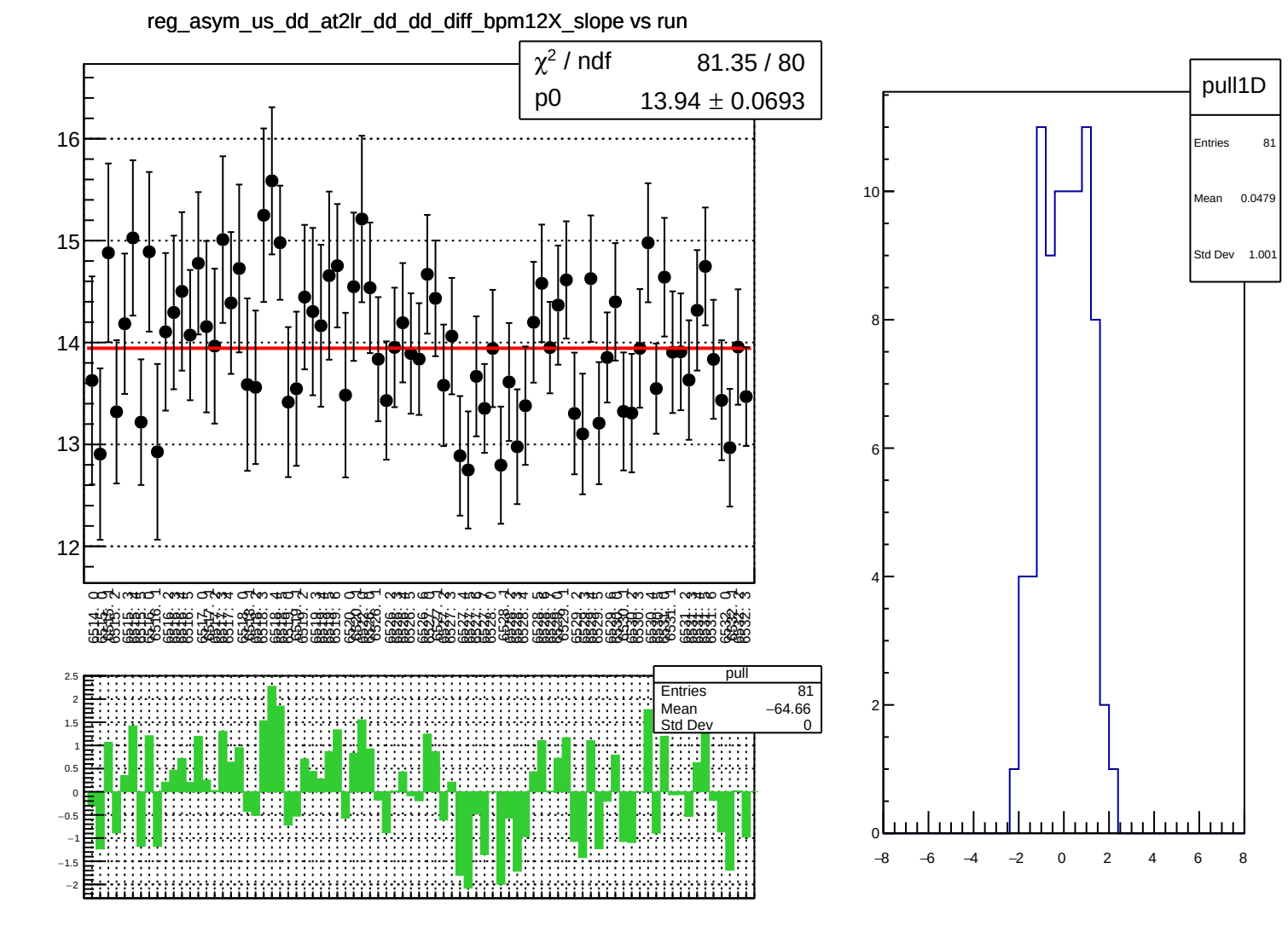

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 67.34 / 80
p0 1.35 ± 1.795
pull
Entries 81
Mean 118
Std Dev 0

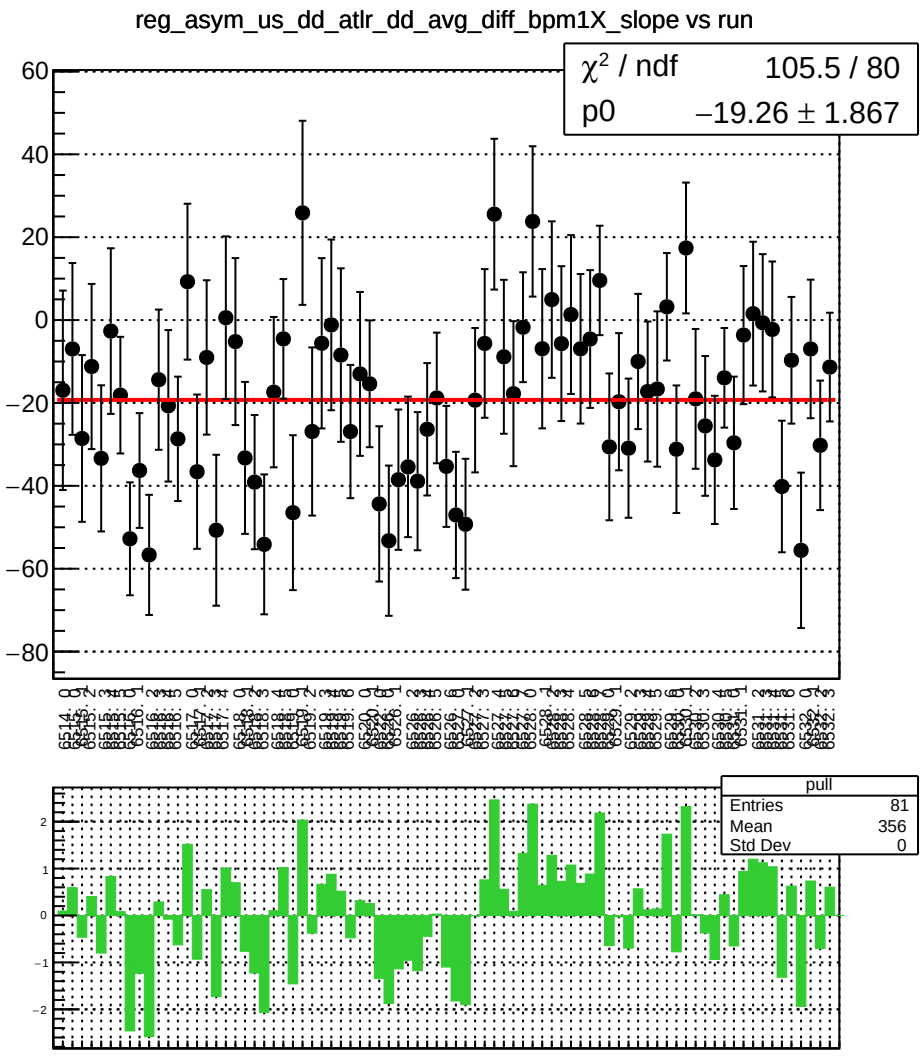

pull1D
Entries 81
Mean 0.05905
Std Dev 0.9098

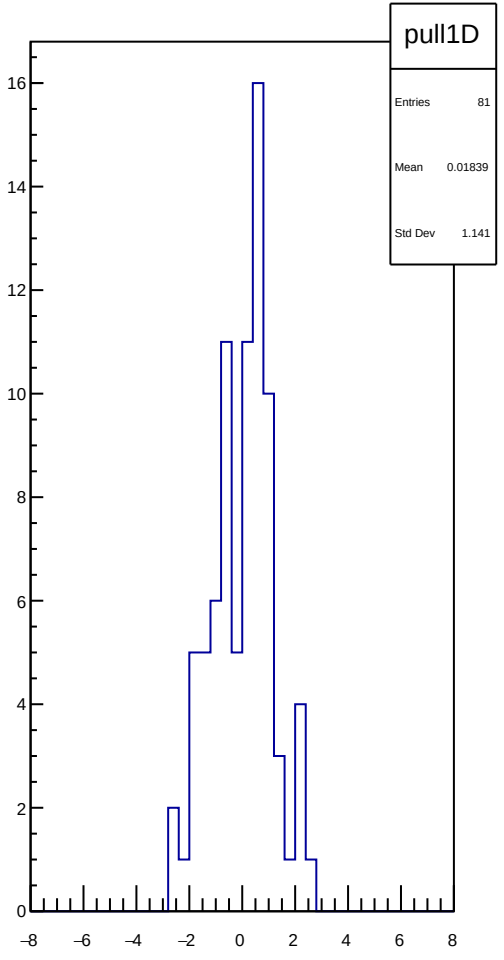

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 70.61 / 80
p0 −4.207 ± 1.765
pull
Entries 81
Mean −64.83
Std Dev 0

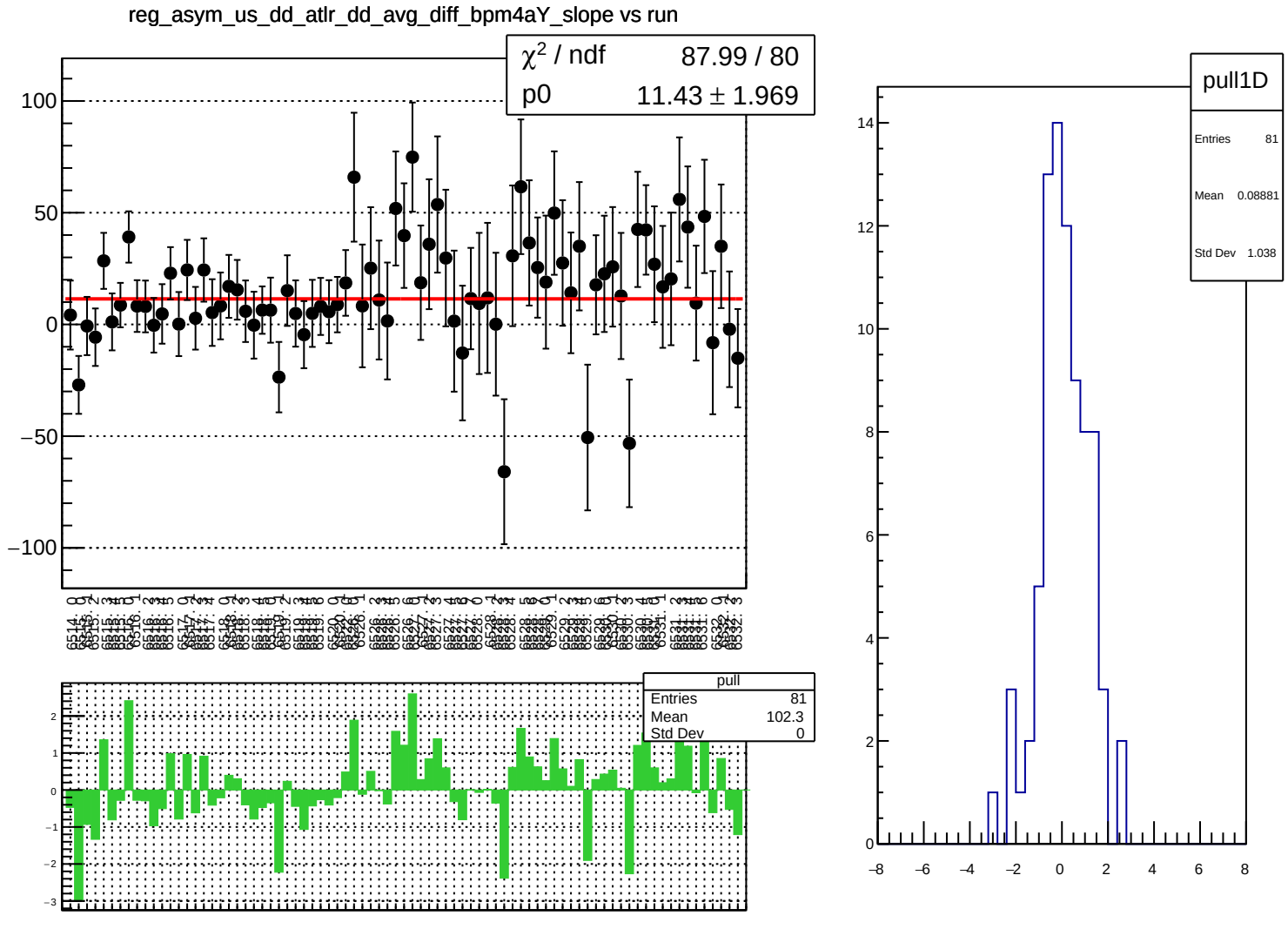

pull1D
Entries 81
Mean 0.01233
Std Dev 0.9336

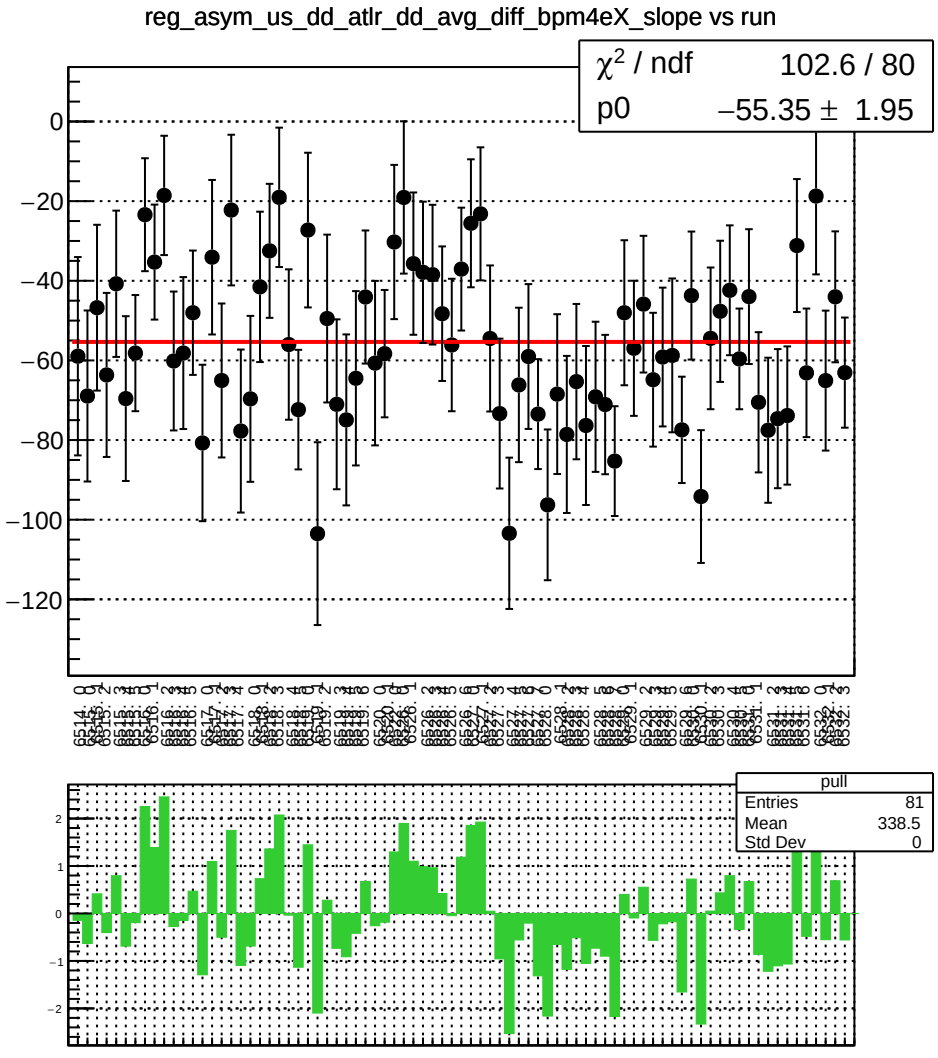

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 67.91 / 80
p0 −8.424 ± 2.015
pull
Entries 81
Mean 151
Std Dev 0
pull1D
Entries 81
Mean −0.03504
Std Dev 0.915

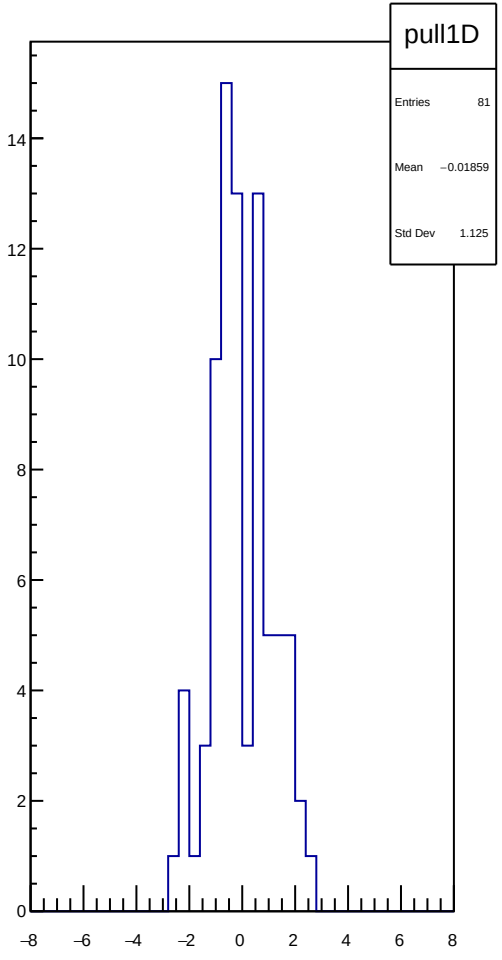

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 81.35 / 80
p0 13.94 ± 0.0693
pull
Entries 81
Mean −64.66
Std Dev 0
pull1D
Entries 81
Mean 0.0479
Std Dev 1.001

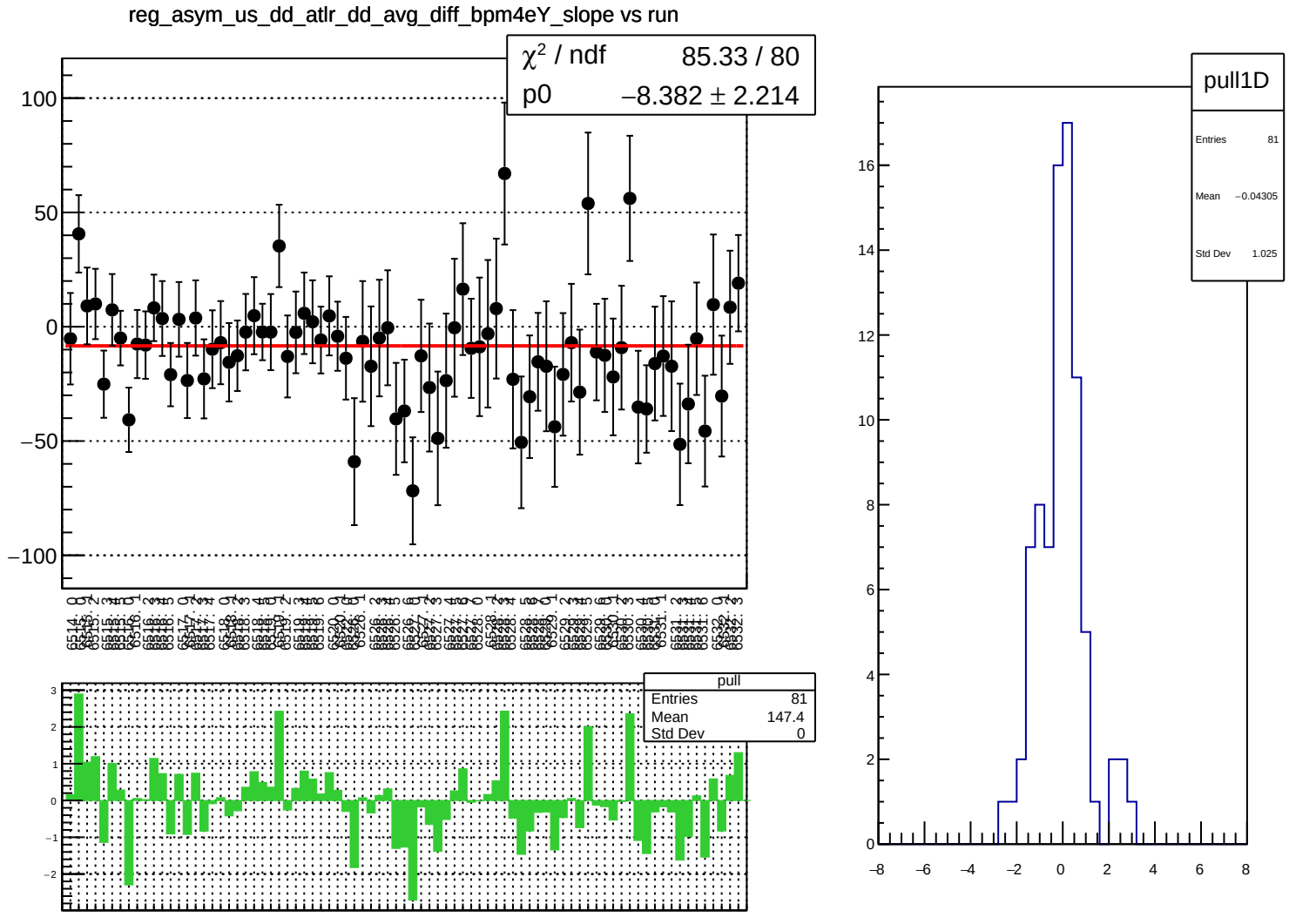

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 105.5 / 80
p0 −19.26 ± 1.867
pull
Entries 81
Mean 356
Std Dev 0

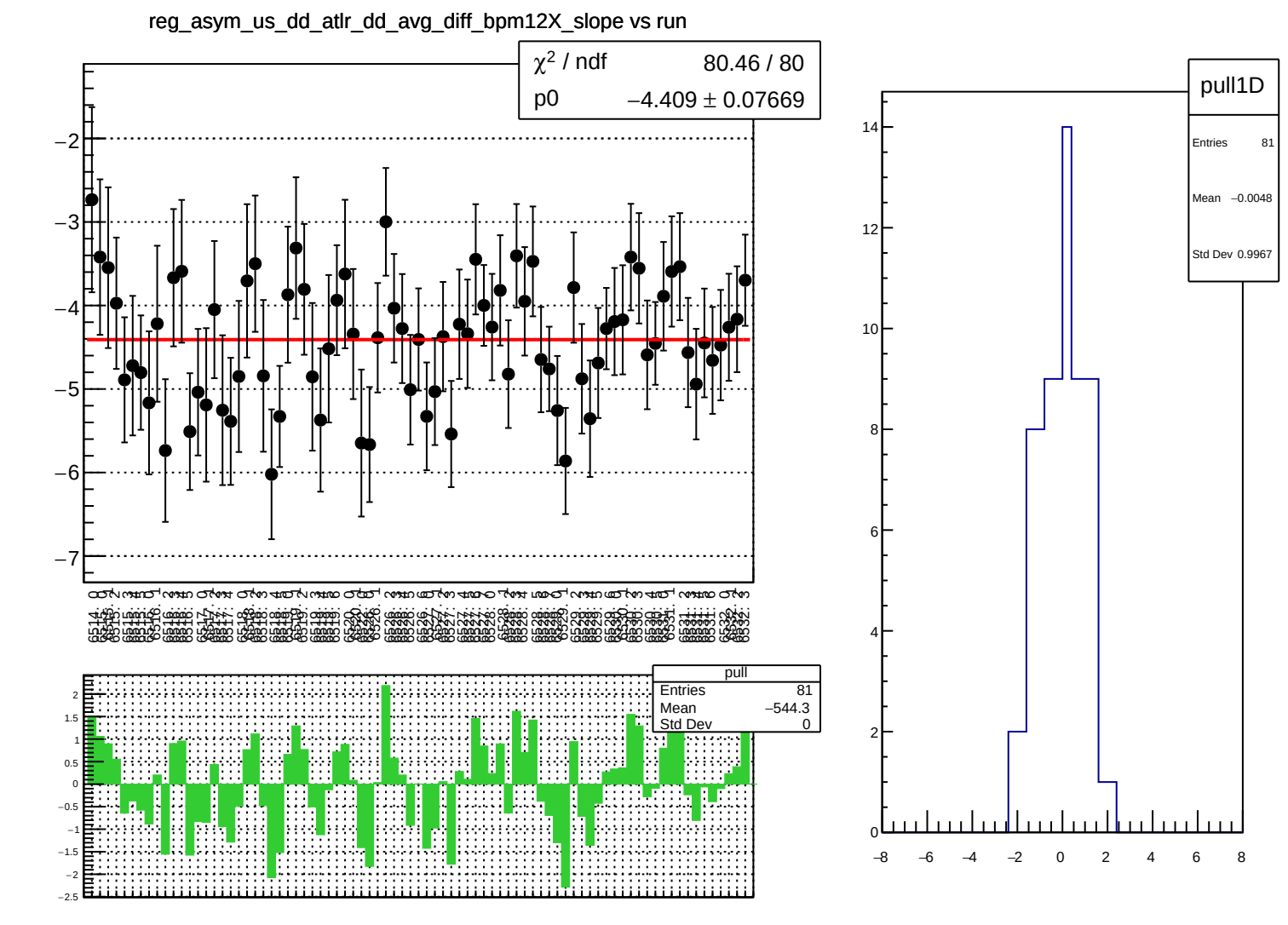

pull1D
Entries 81
Mean 0.01839
Std Dev 1.141

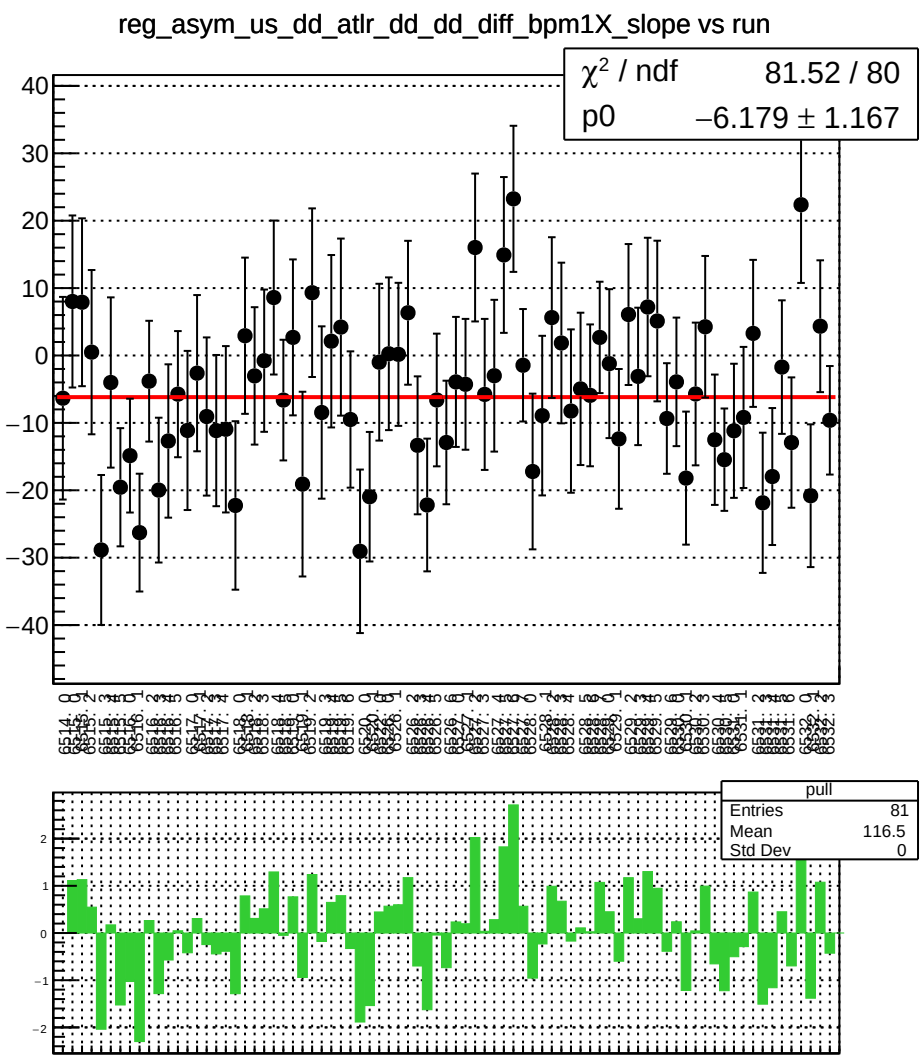

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 87.99 / 80
p0 11.43 ± 1.969
pull
Entries 81
Mean 102.3
Std Dev 0
pull1D
Entries 81
Mean 0.08881
Std Dev 1.038

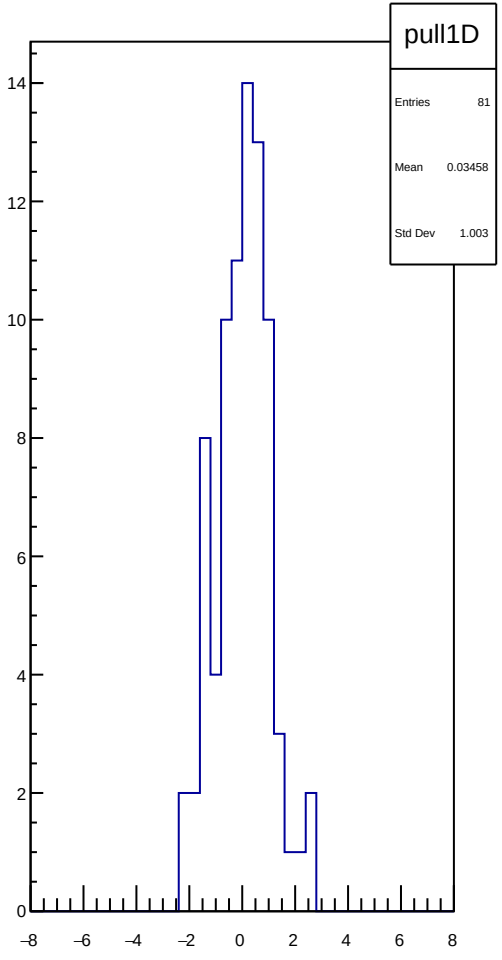

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 102.6 / 80
p0 −55.35 ± 1.95
pull
Entries 81
Mean 338.5
Std Dev 0

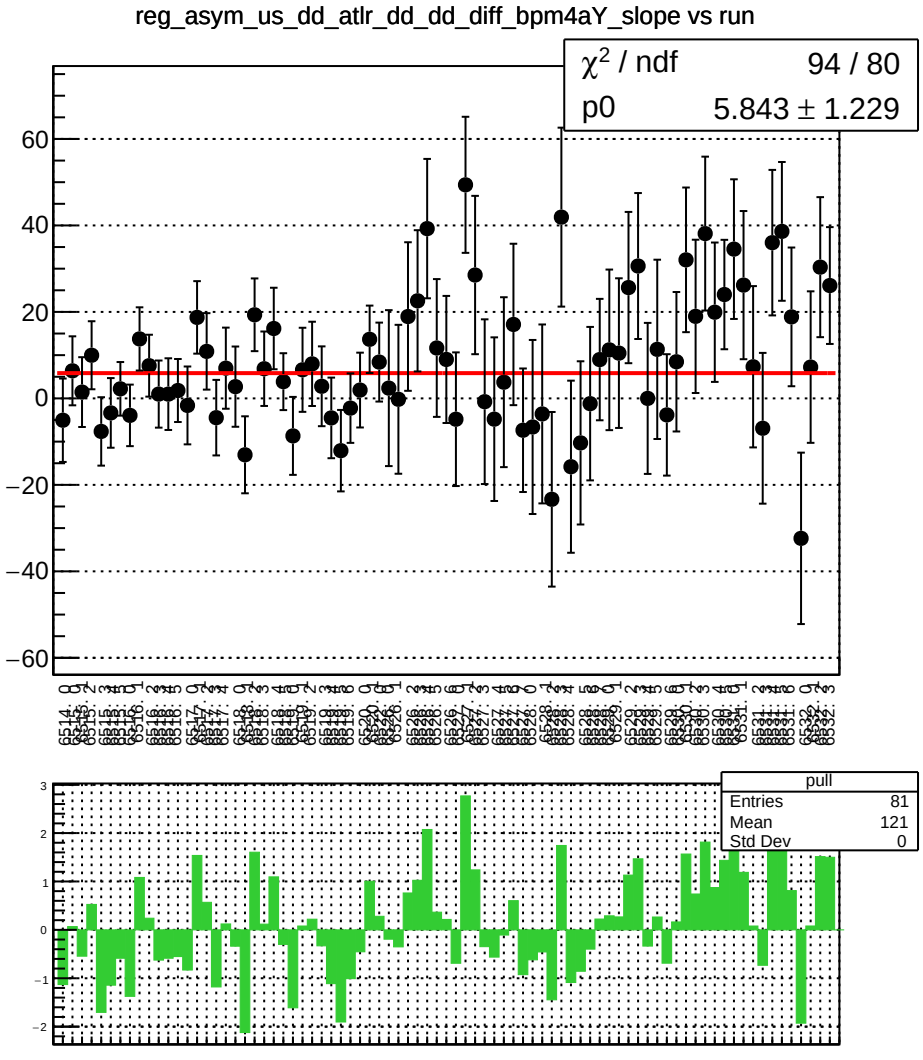

pull1D
Entries 81
Mean −0.01859
Std Dev 1.125

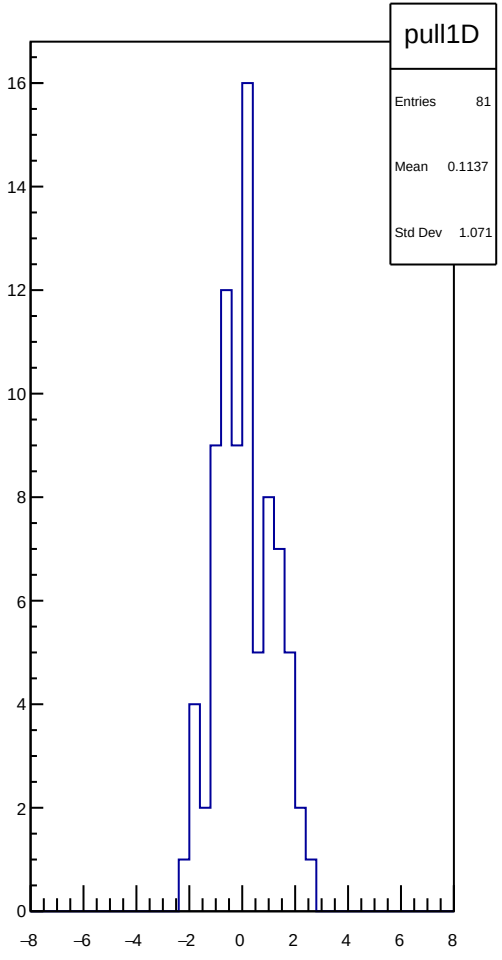

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 85.33 / 80
p0 −8.382 ± 2.214
pull
Entries 81
Mean 147.4
Std Dev 0
pull1D
Entries 81
Mean −0.04305
Std Dev 1.025

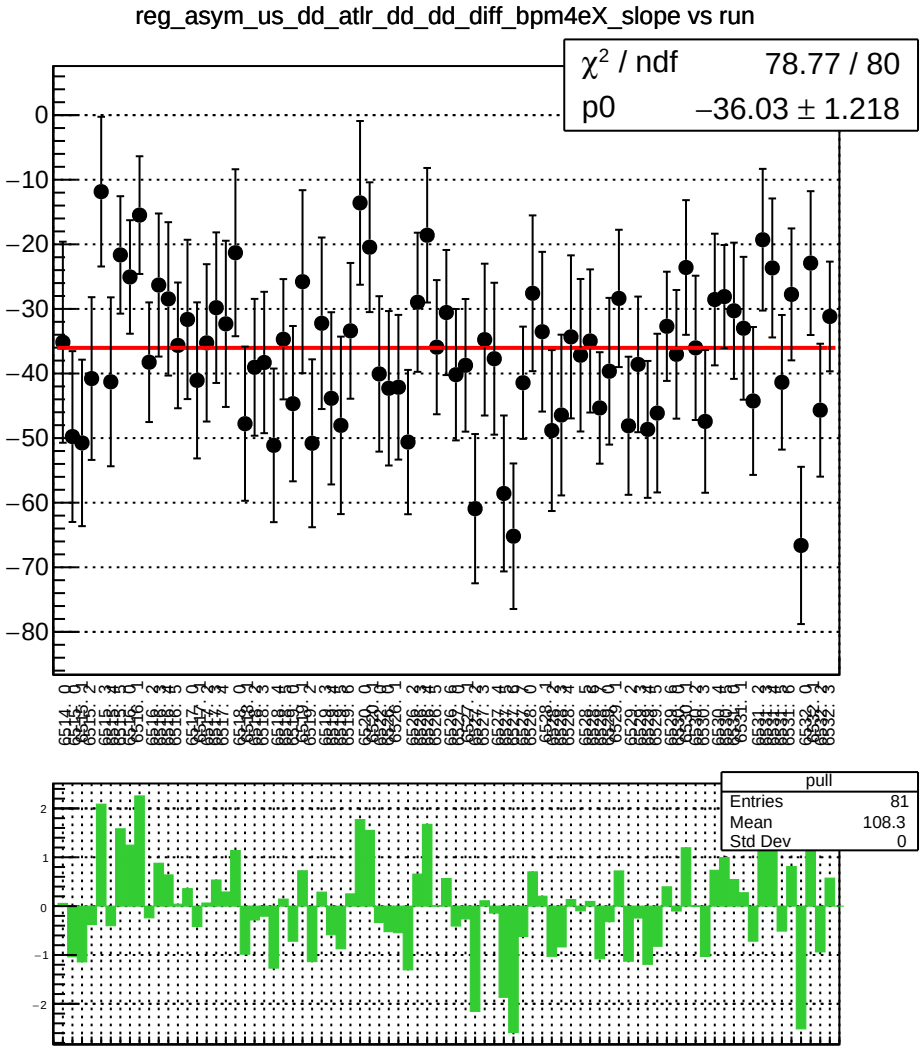

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 80.46 / 80
p0 −4.409 ± 0.07669
pull
Entries 81
Mean −544.3
Std Dev 0
pull1D
Entries 81
Mean −0.0048
Std Dev 0.9967

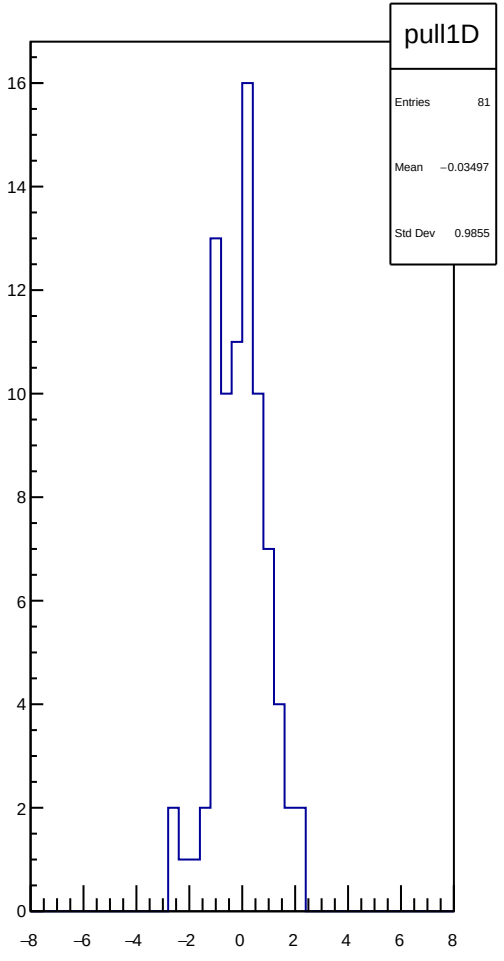

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 81.52 / 80
p0 −6.179 ± 1.167
pull
Entries 81
Mean 116.5
Std Dev 0

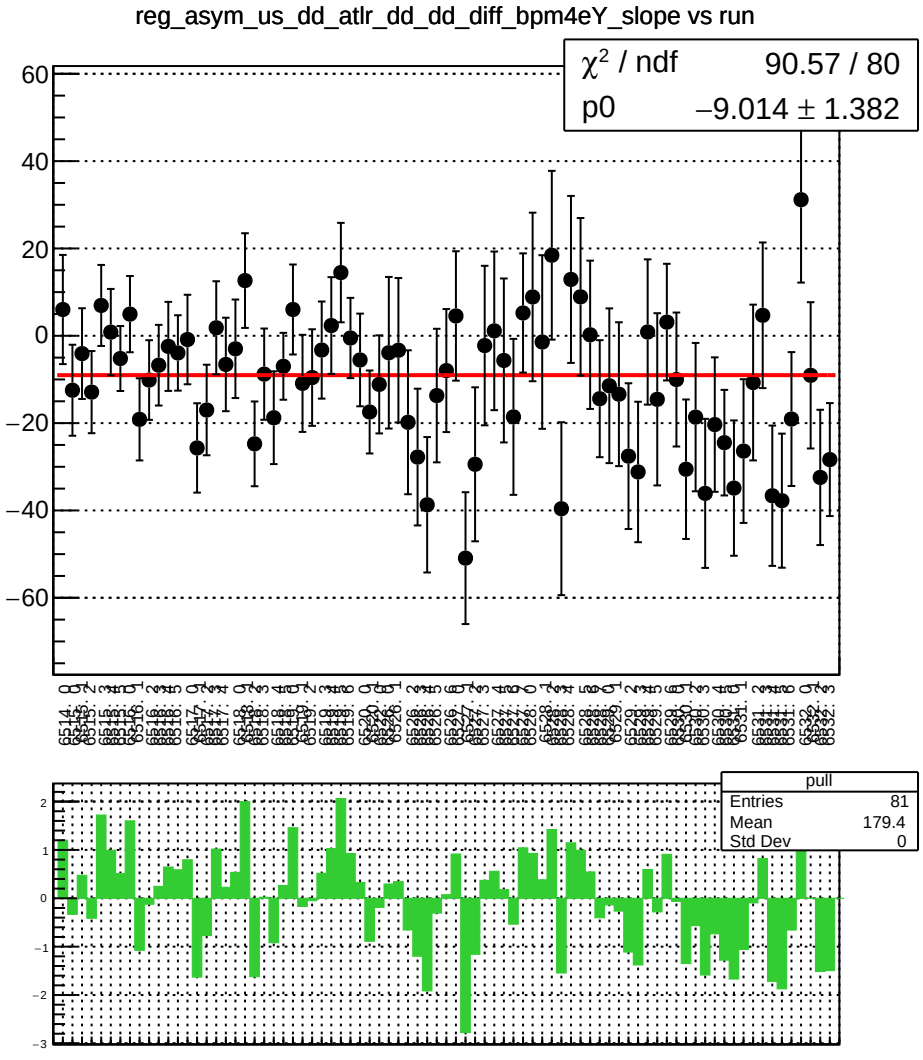

pull1D
Entries 81
Mean 0.03458
Std Dev 1.003

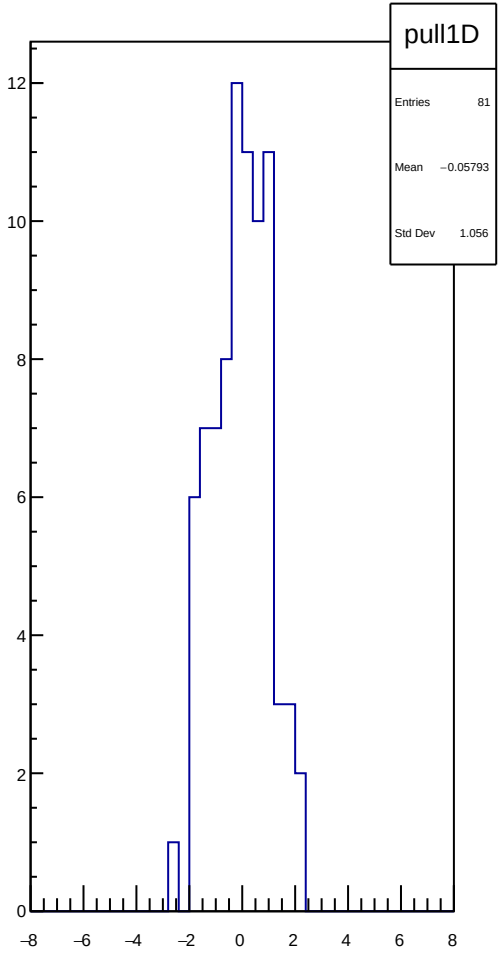

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 94 / 80
p0 5.843 ± 1.229
pull
Entries 81
Mean 121
Std Dev 0

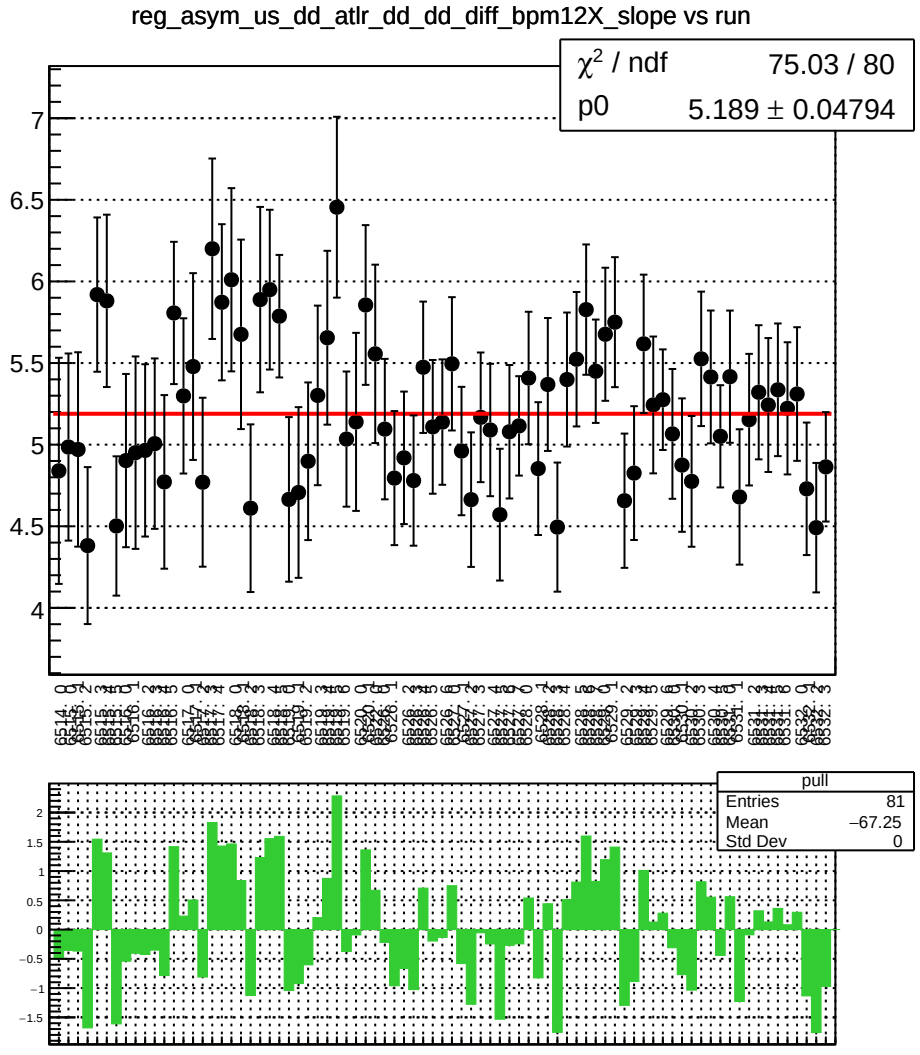

pull1D
Entries 81
Mean 0.1137
Std Dev 1.071

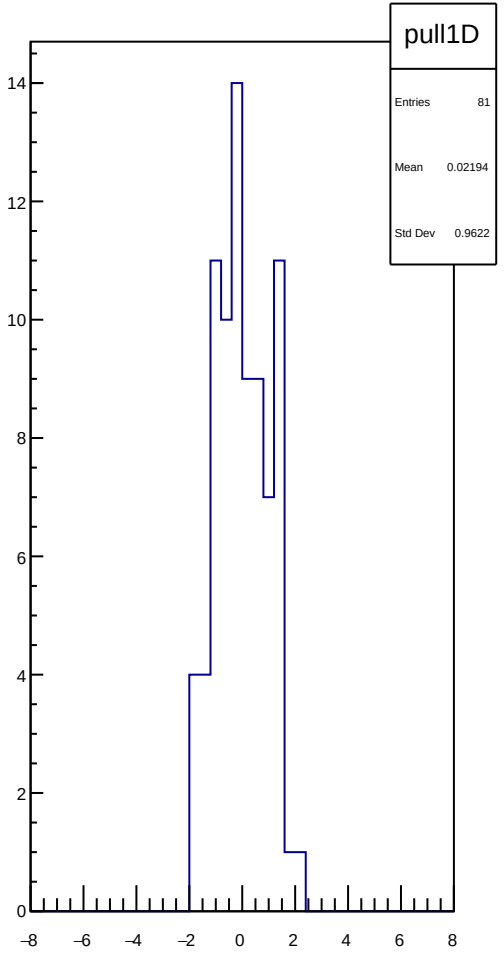

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 78.77 / 80
p0 −36.03 ± 1.218
pull
Entries 81
Mean 108.3
Std Dev 0

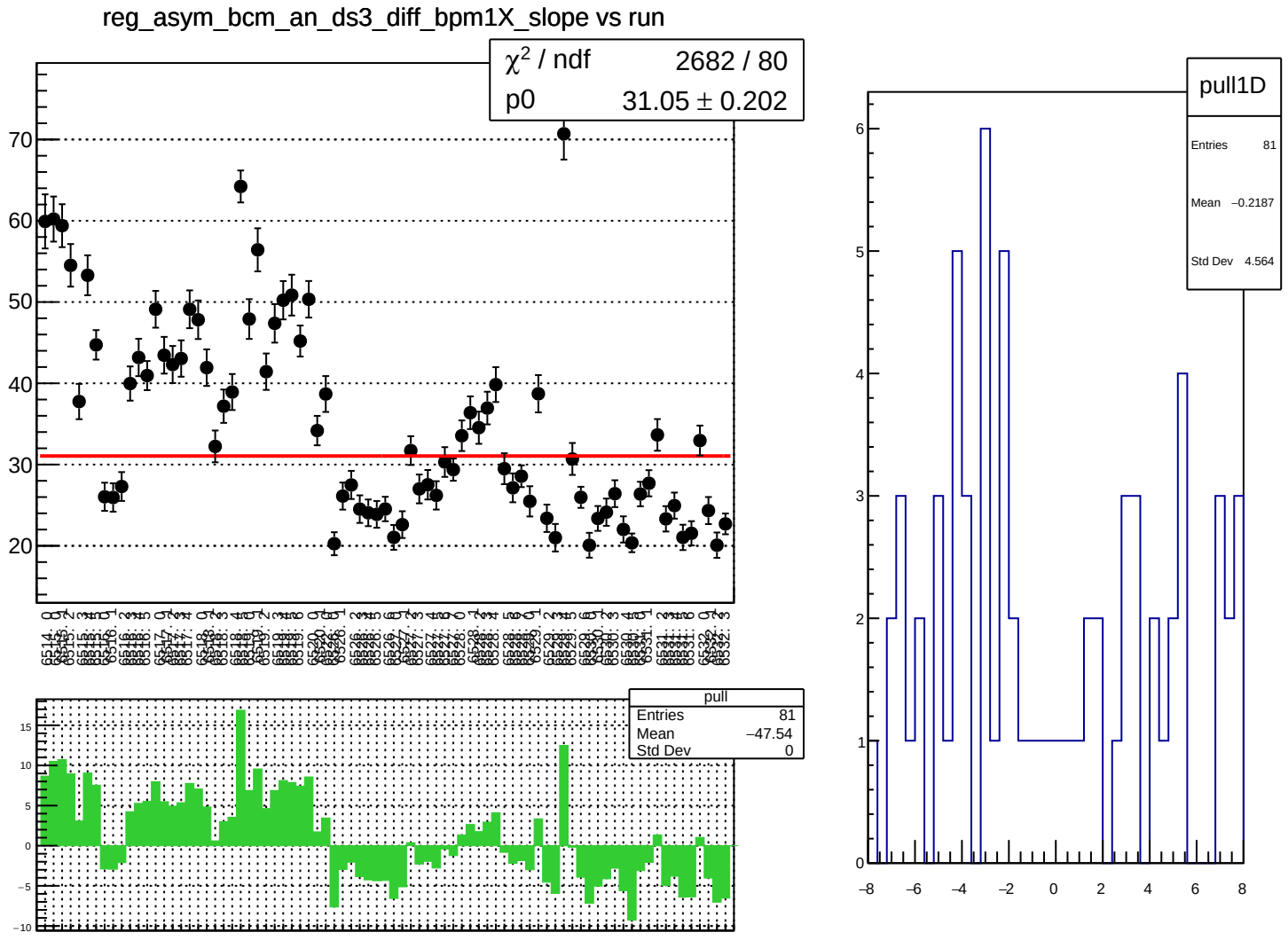

pull1D
Entries 81
Mean −0.03497
Std Dev 0.9855

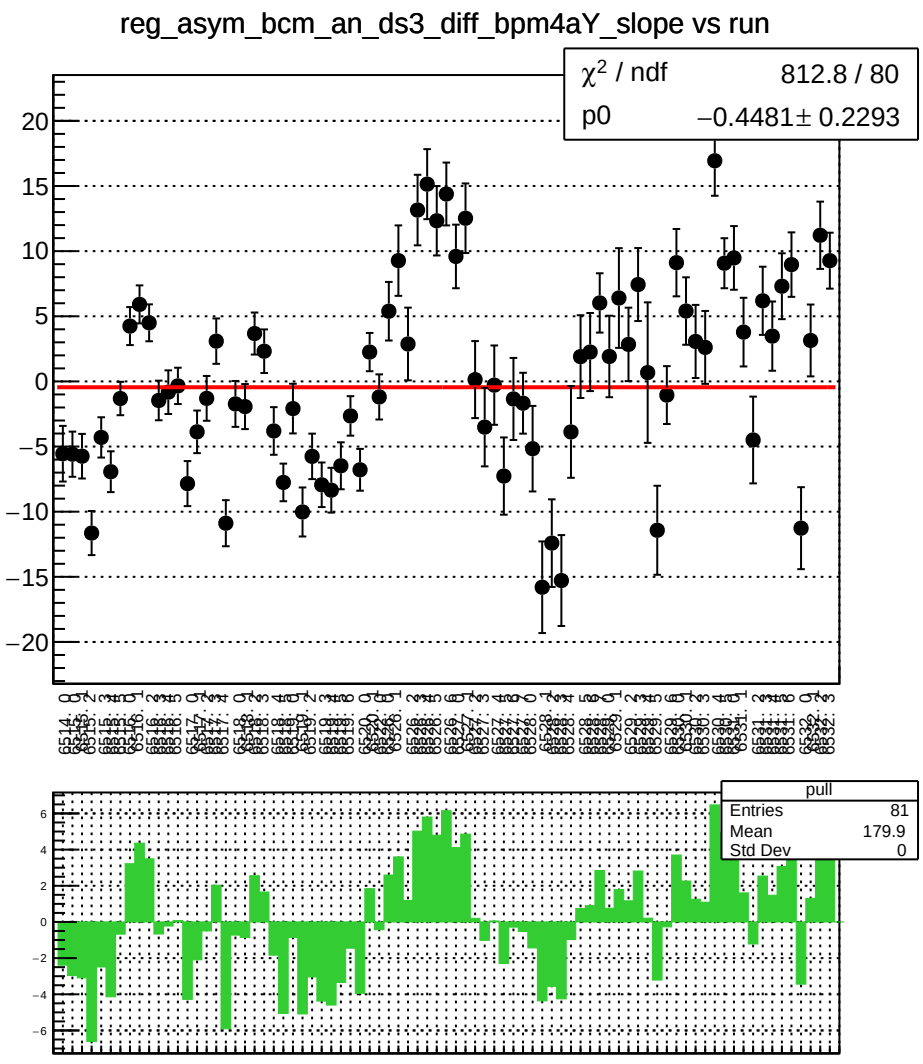

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 90.57 / 80
p0 −9.014 ± 1.382
pull
Entries 81
Mean 179.4
Std Dev 0

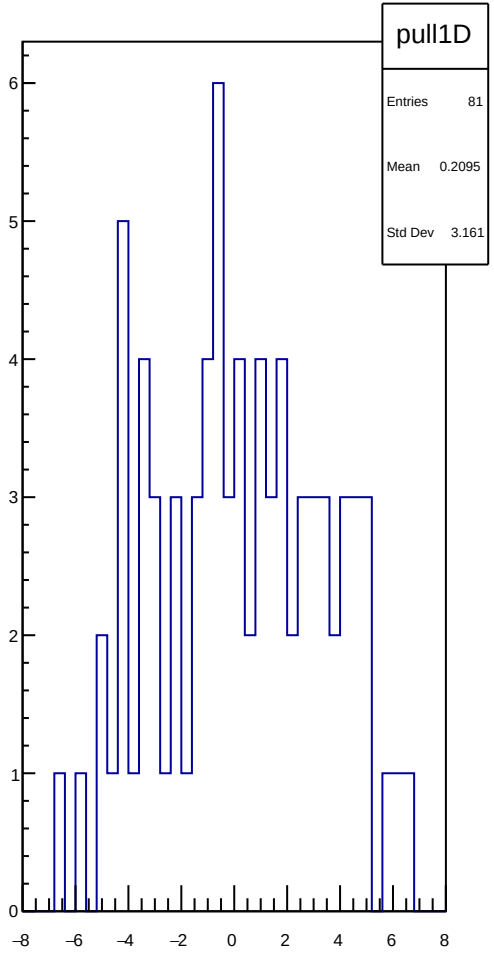

pull1D
Entries 81
Mean −0.05793
Std Dev 1.056

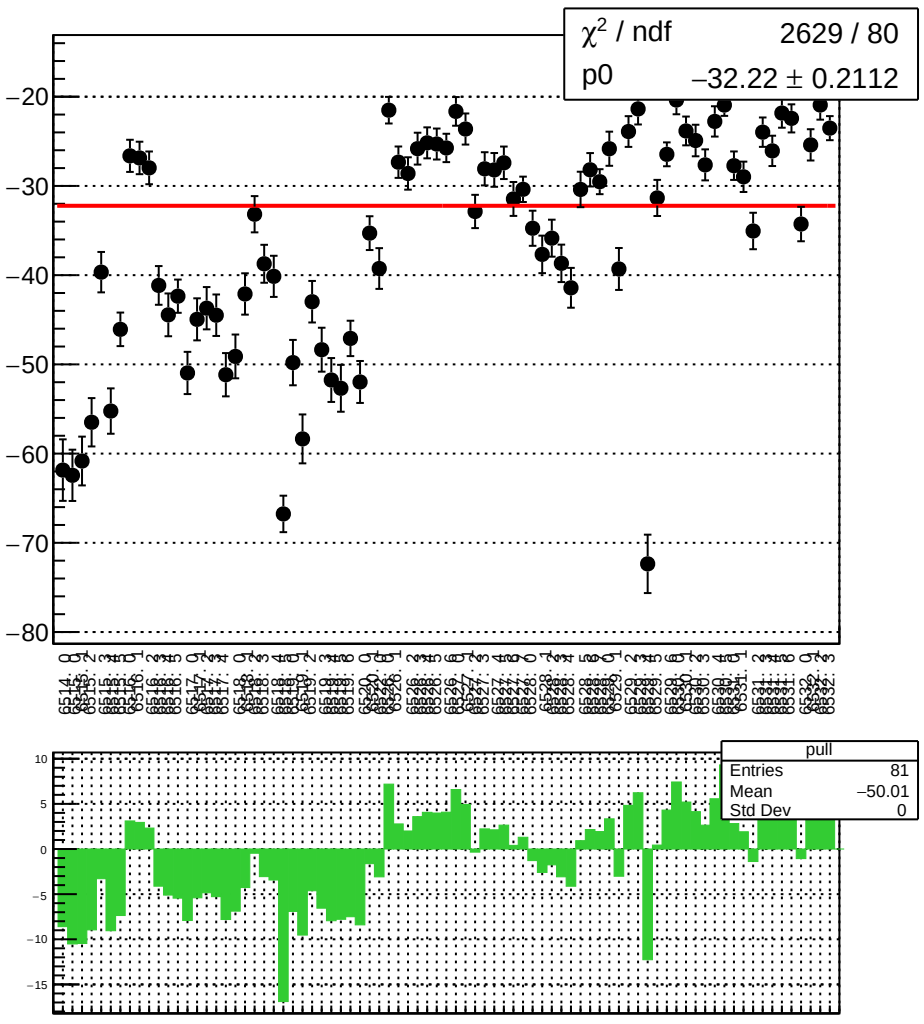

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 75.03 / 80
p0 5.189 ± 0.04794
pull
Entries 81
Mean −67.25
Std Dev 0

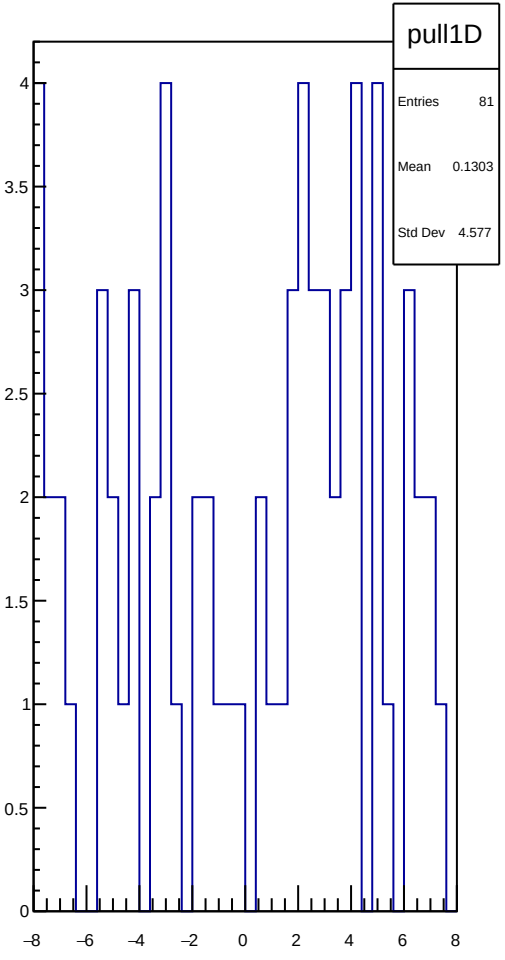

pull1D
Entries 81
Mean 0.02194
Std Dev 0.9622

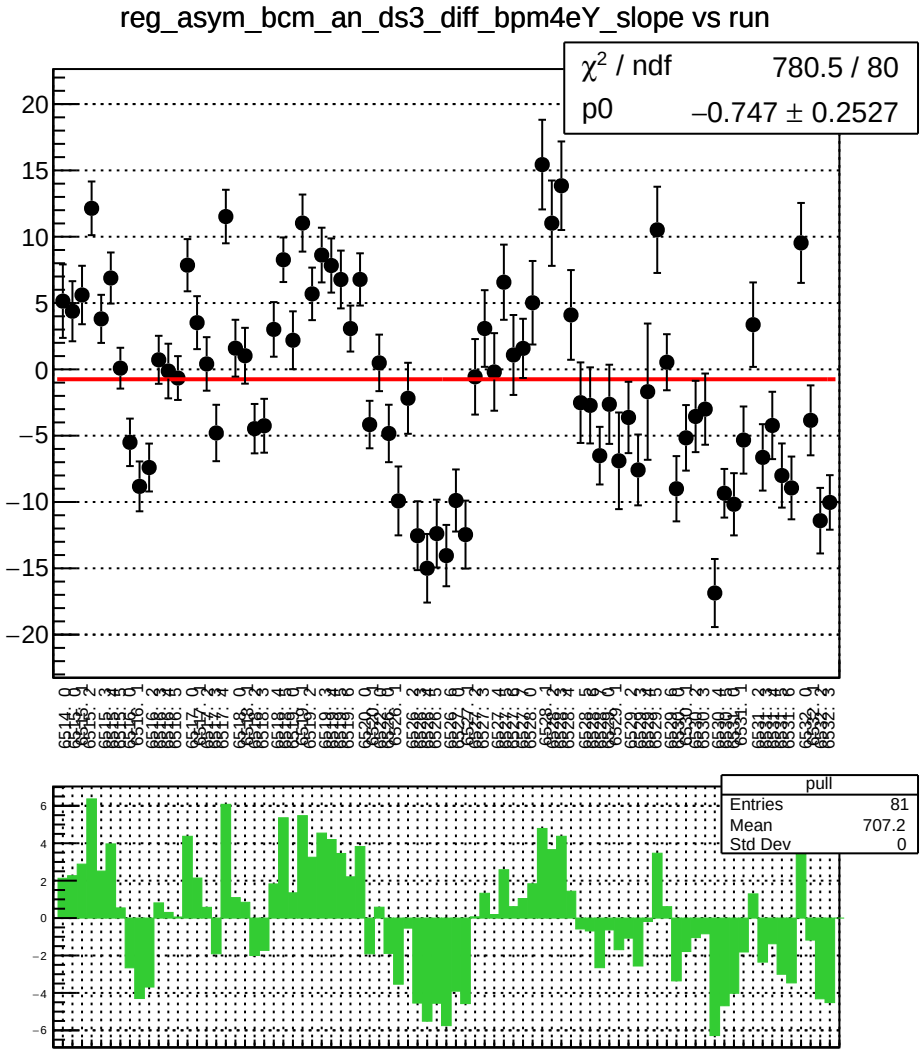

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 2682 / 80
p0 31.05 ± 0.202
pull
Entries 81
Mean −47.54
Std Dev 0
pull1D
Entries 81
Mean −0.2187
Std Dev 4.564

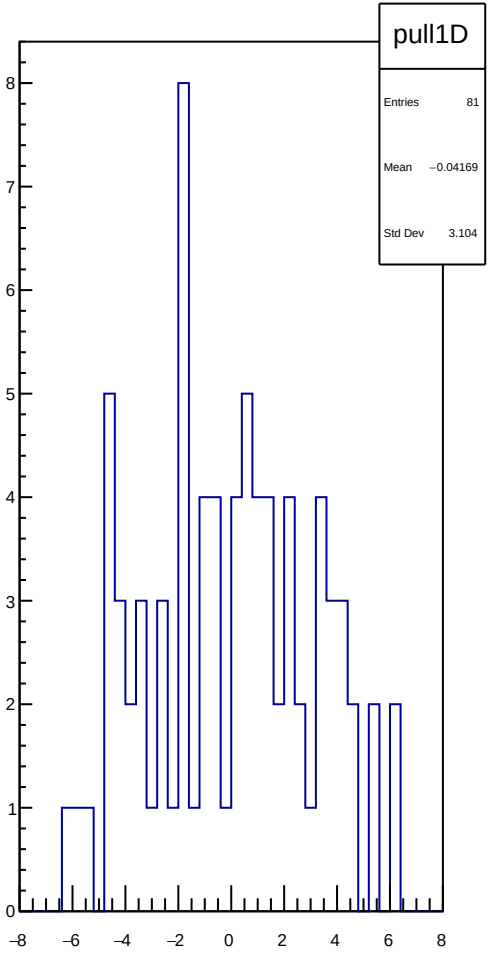

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 812.8 / 80
p0 −0.4481± 0.2293
pull
Entries 81
Mean 179.9
Std Dev 0

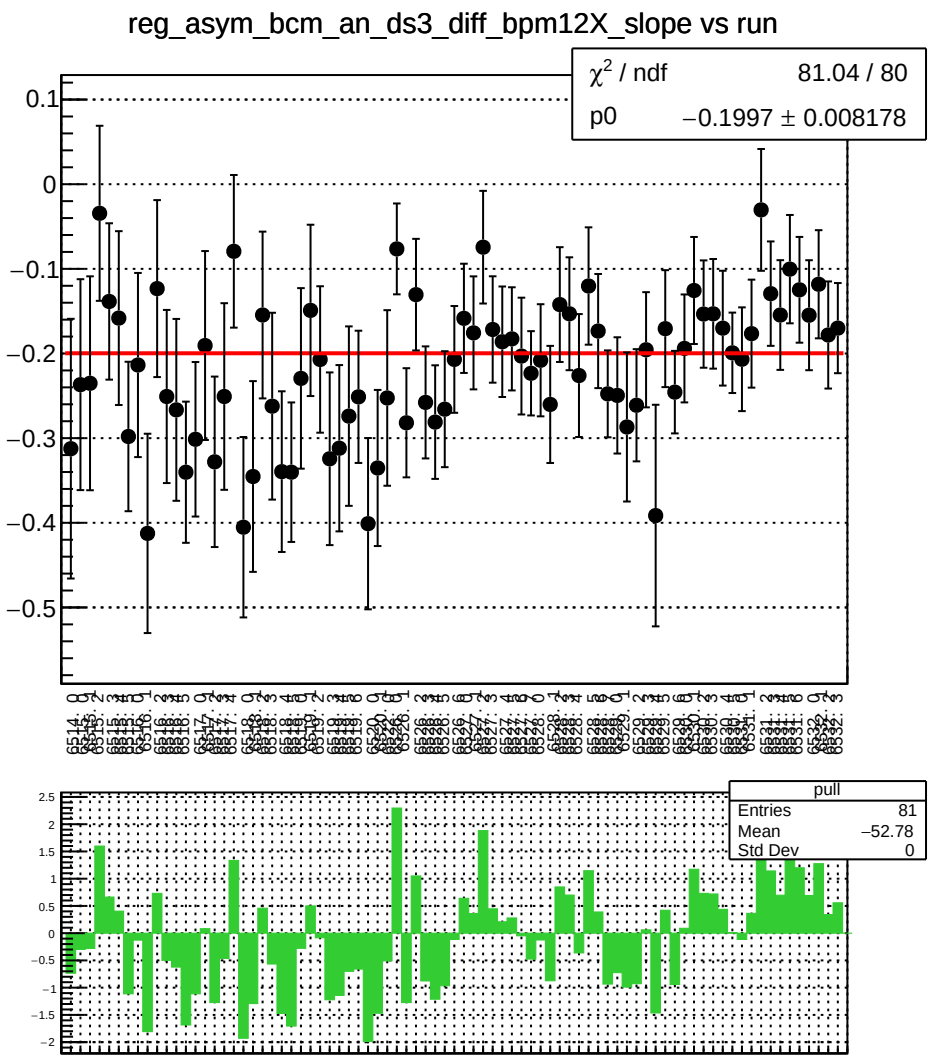

pull1D
Entries 81
Mean 0.2095
Std Dev 3.161

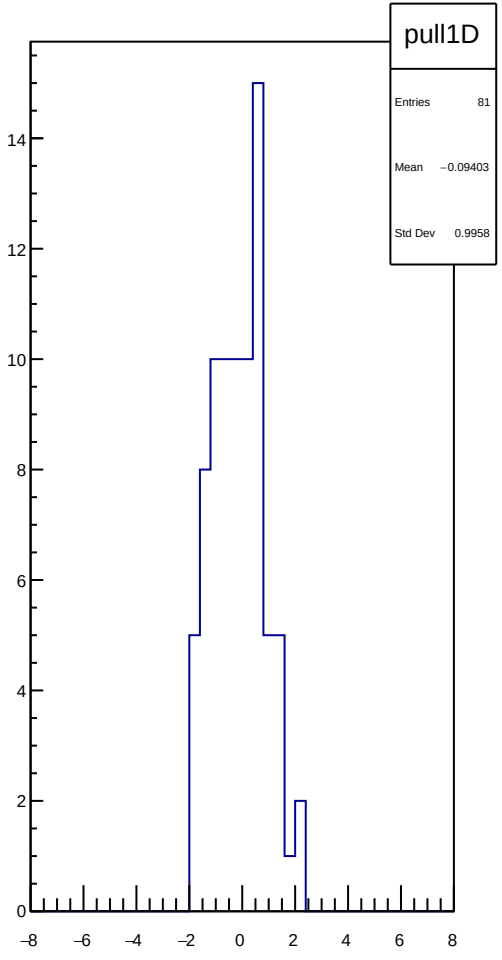

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 2629 / 80
p0 −32.22 ± 0.2112
pull
Entries 81
Mean −50.01
Std Dev 0

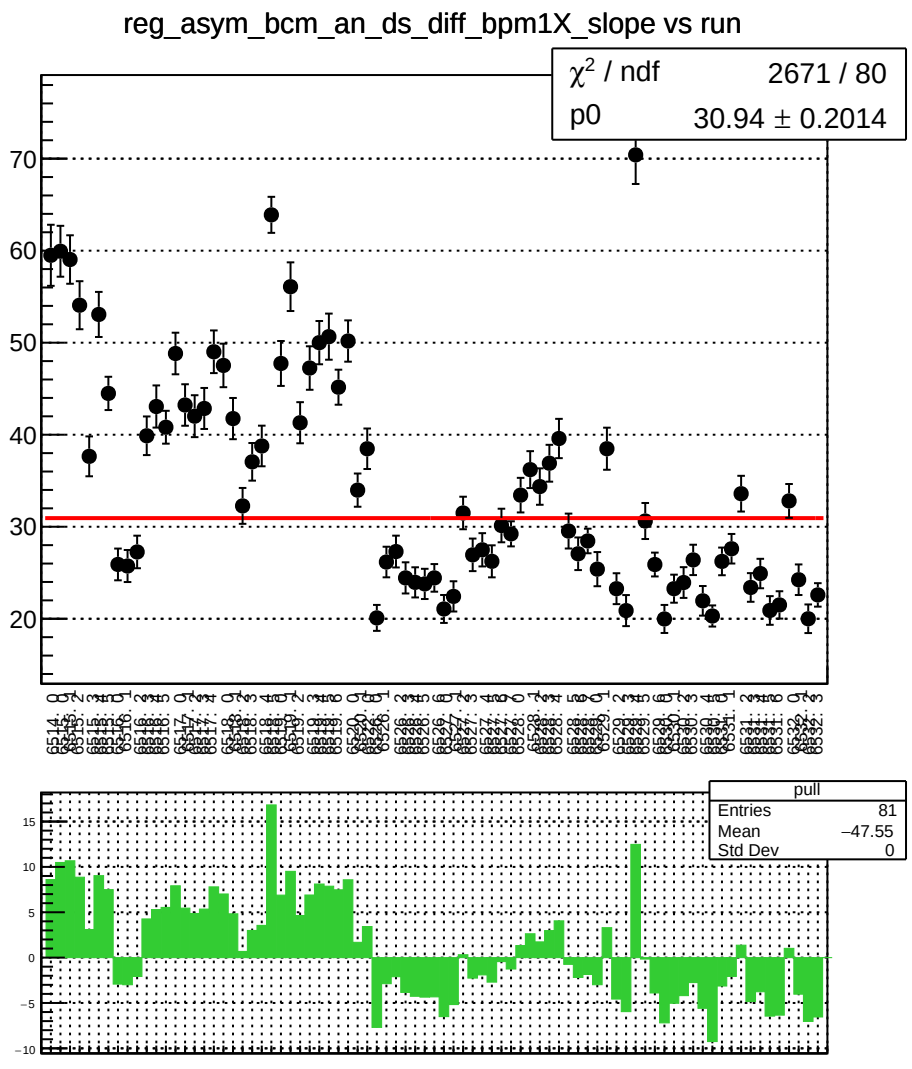

pull1D
Entries 81
Mean 0.1303
Std Dev 4.577

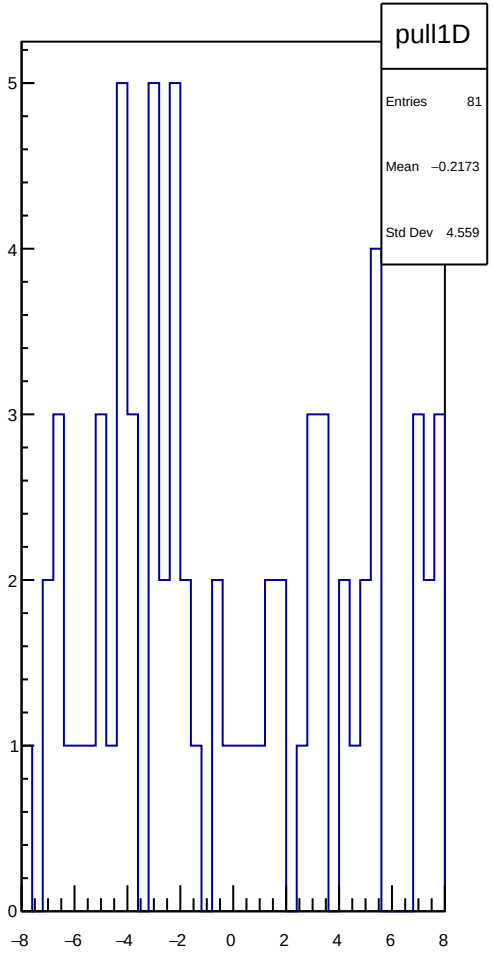

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 780.5 / 80
p0 −0.747 ± 0.2527
pull
Entries 81
Mean 707.2
Std Dev 0

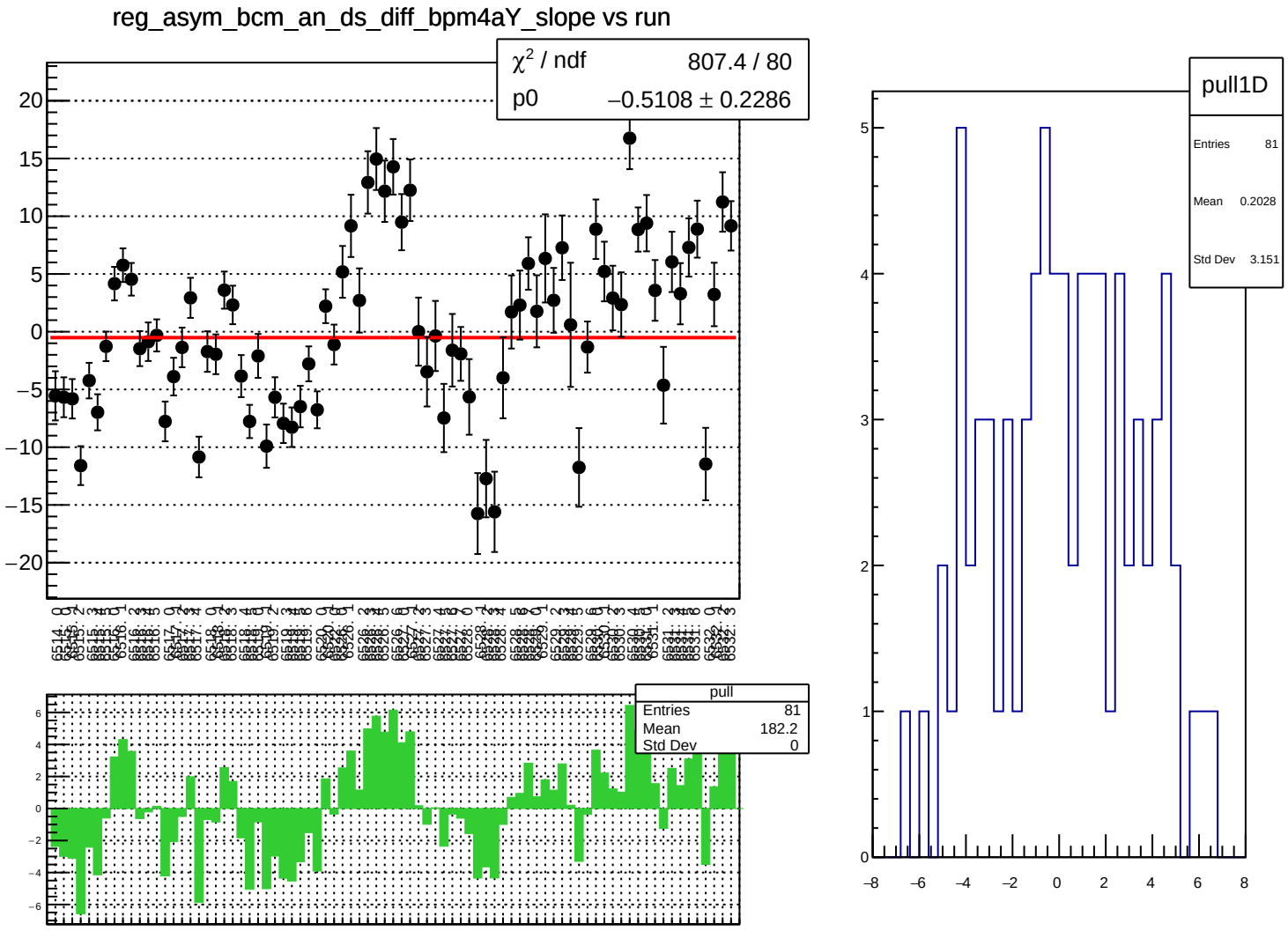

pull1D
Entries 81
Mean −0.04169
Std Dev 3.104

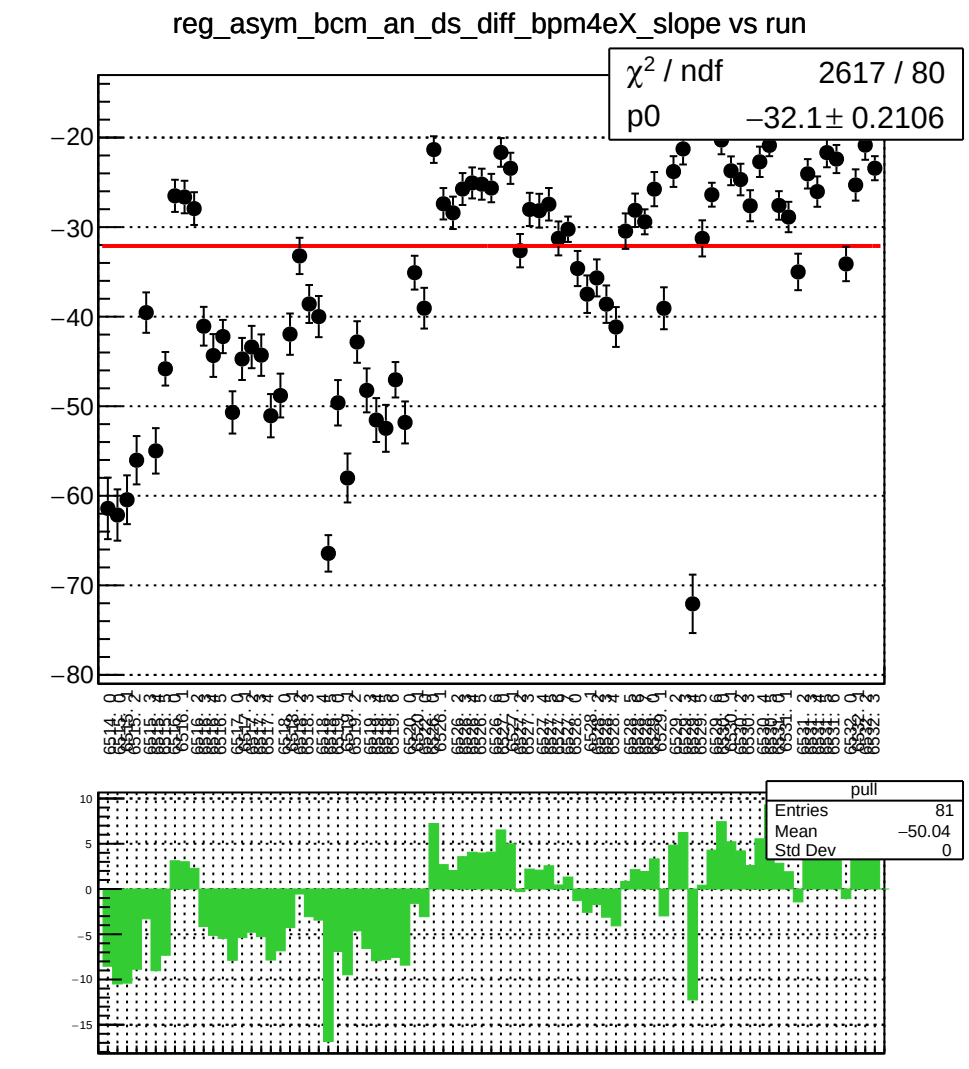

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 81.04 / 80
p0 −0.1997 ± 0.008178
pull
Entries 81
Mean −52.78
Std Dev 0

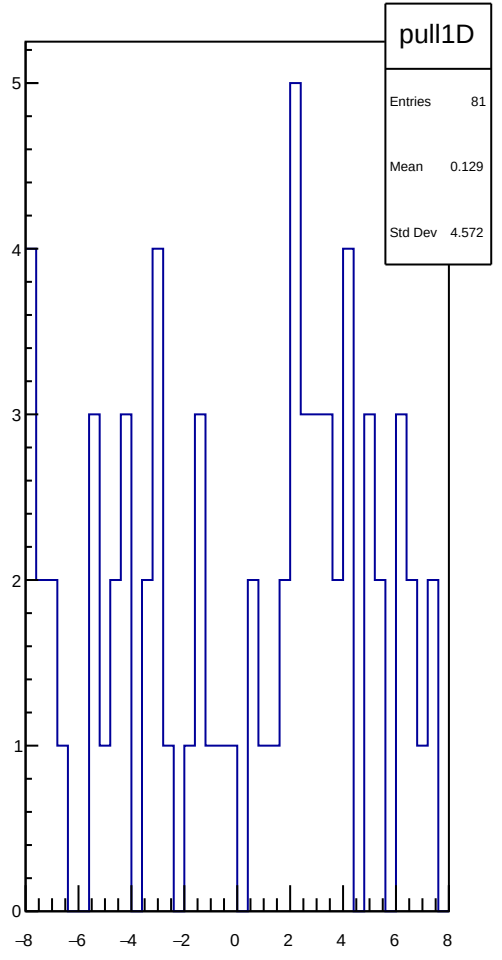

pull1D
Entries 81
Mean −0.09403
Std Dev 0.9958

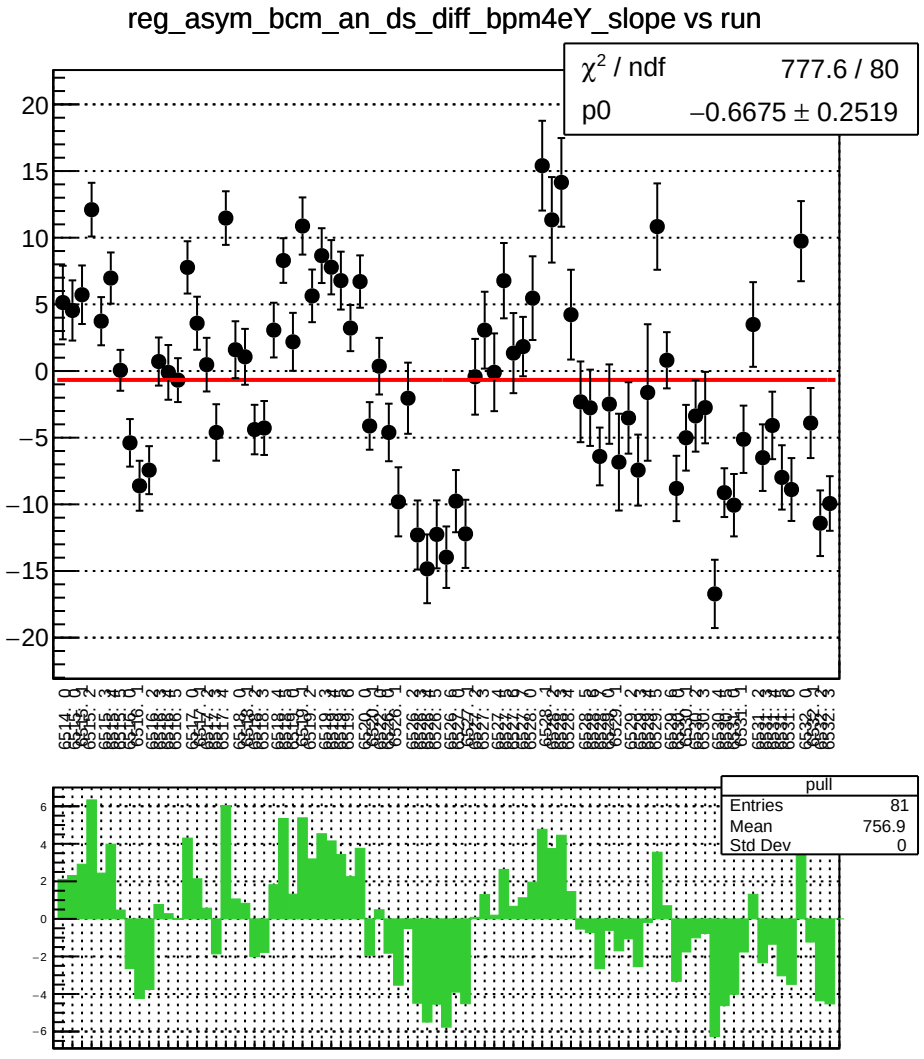

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 2671 / 80
p0 30.94 ± 0.2014
pull
Entries 81
Mean −47.55
Std Dev 0

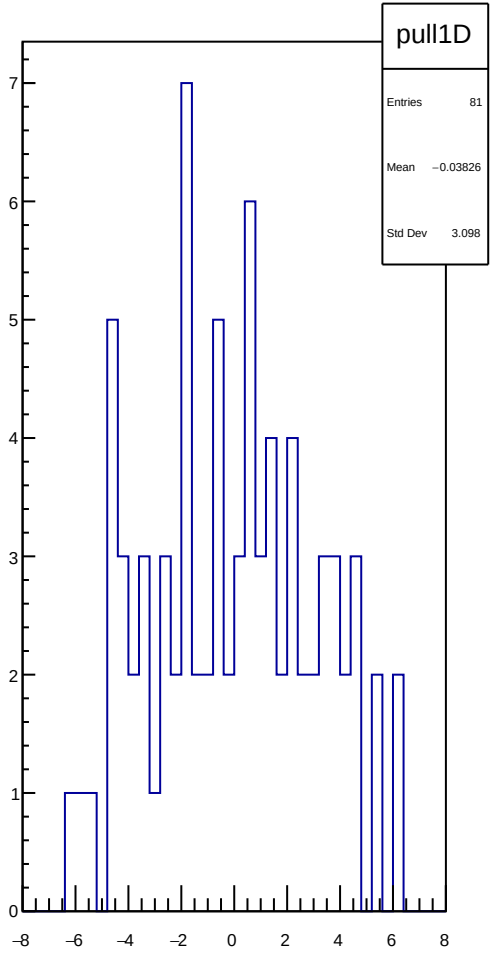

pull1D
Entries 81
Mean −0.2173
Std Dev 4.559

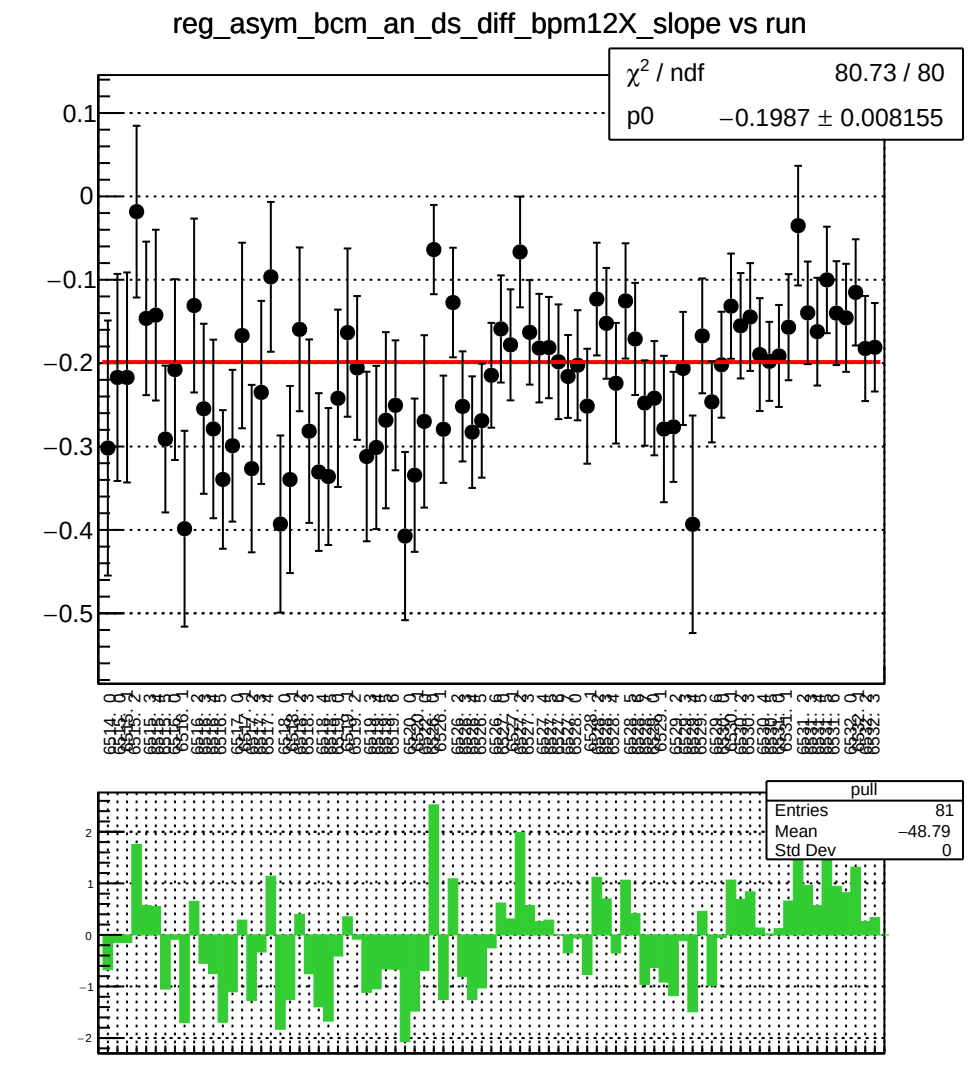

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 807.4 / 80
p0 −0.5108 ± 0.2286
pull
Entries 81
Mean 182.2
Std Dev 0
pull1D
Entries 81
Mean 0.2028
Std Dev 3.151

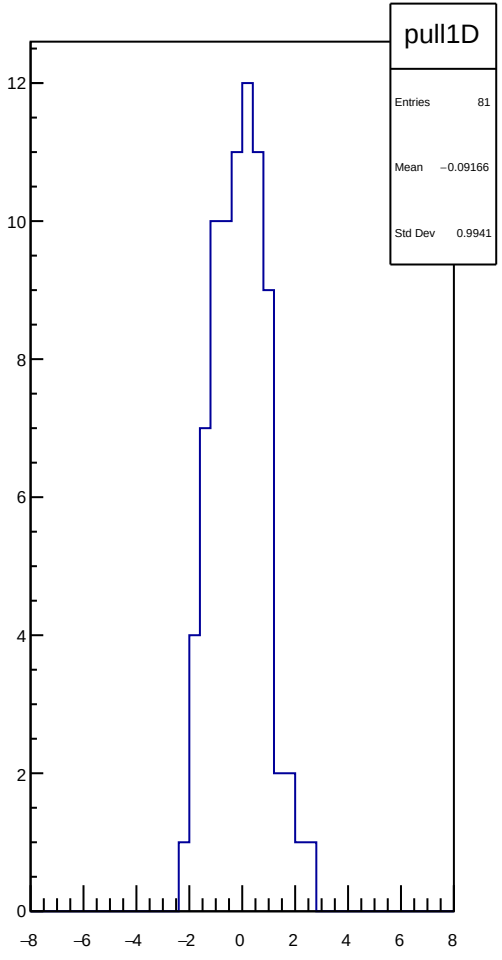

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 2617 / 80
p0 −32.1 ± 0.2106
pull
Entries 81
Mean −50.04
Std Dev 0

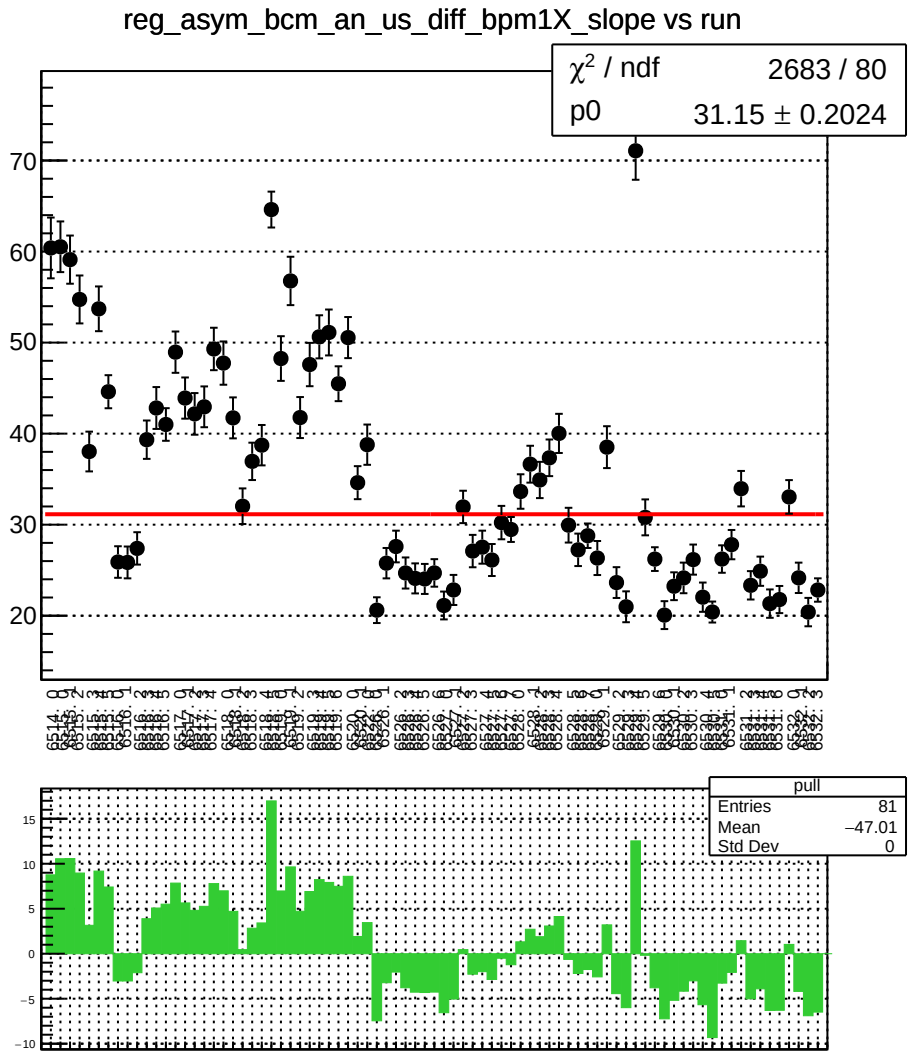

pull1D
Entries 81
Mean 0.129
Std Dev 4.572

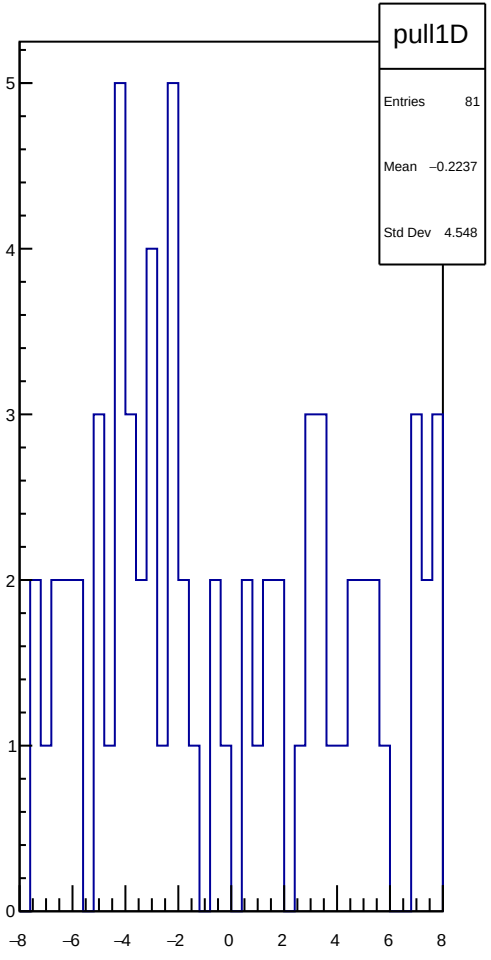

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 777.6 / 80
p0 −0.6675 ± 0.2519
pull
Entries 81
Mean 756.9
Std Dev 0

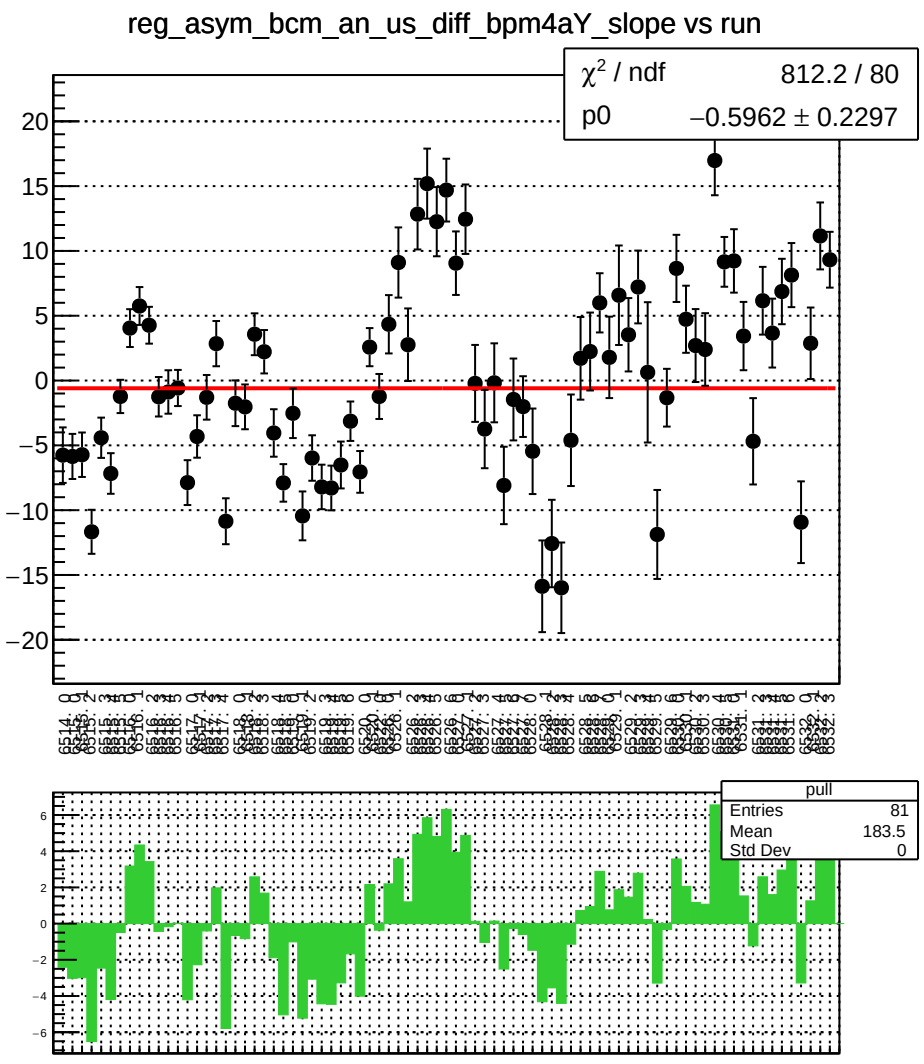

pull1D
Entries 81
Mean −0.03826
Std Dev 3.098

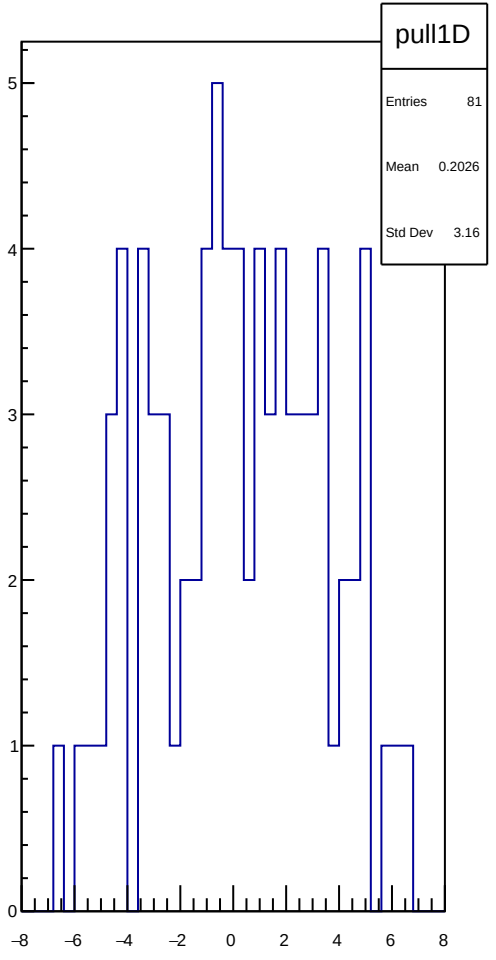

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 80.73 / 80
p0 −0.1987 ± 0.008155
pull
Entries 81
Mean −48.79
Std Dev 0

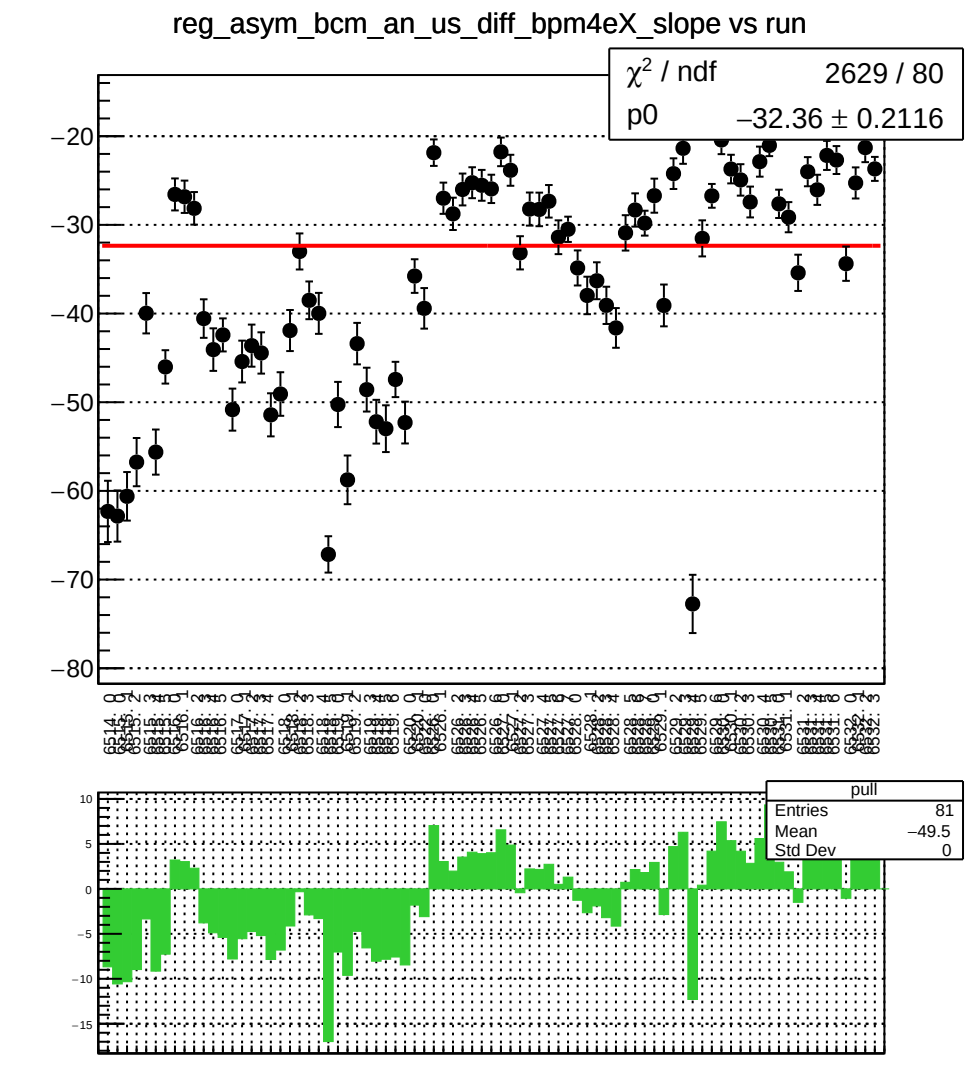

pull1D
Entries 81
Mean −0.09166
Std Dev 0.9941

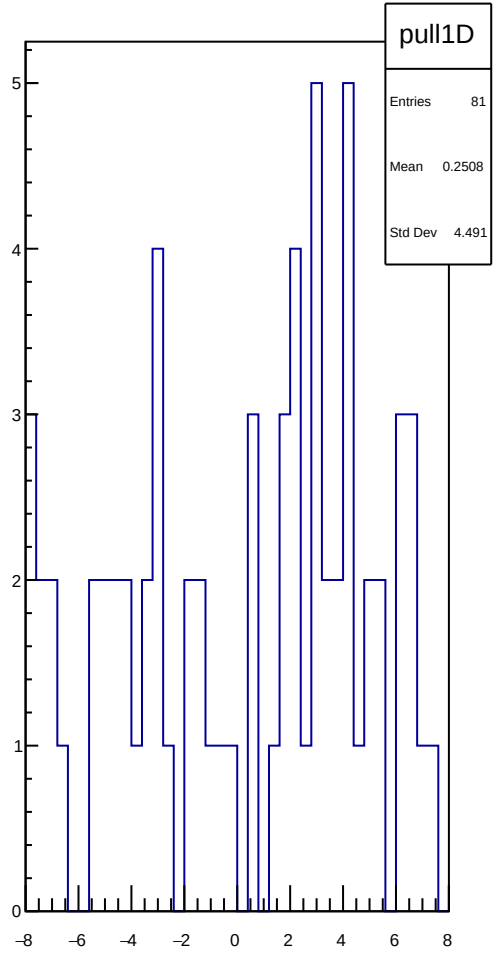

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 2683 / 80
p0 31.15 ± 0.2024
pull
Entries 81
Mean −47.01
Std Dev 0

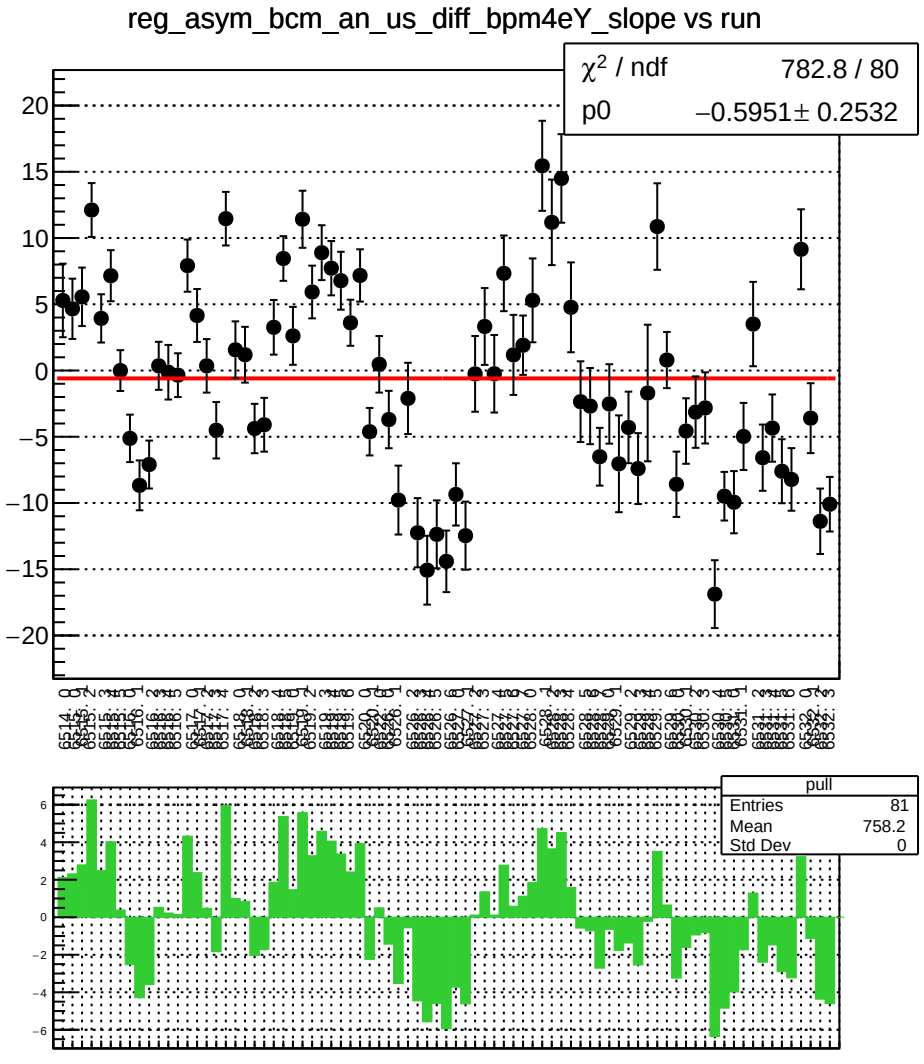

pull1D
Entries 81
Mean −0.2237
Std Dev 4.548

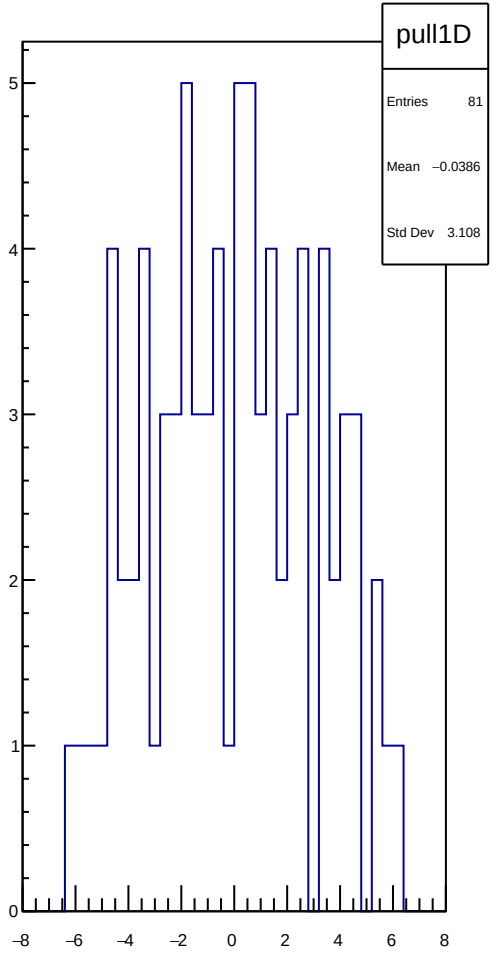

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 812.2 / 80
p0 −0.5962 ± 0.2297
pull
Entries 81
Mean 183.5
Std Dev 0

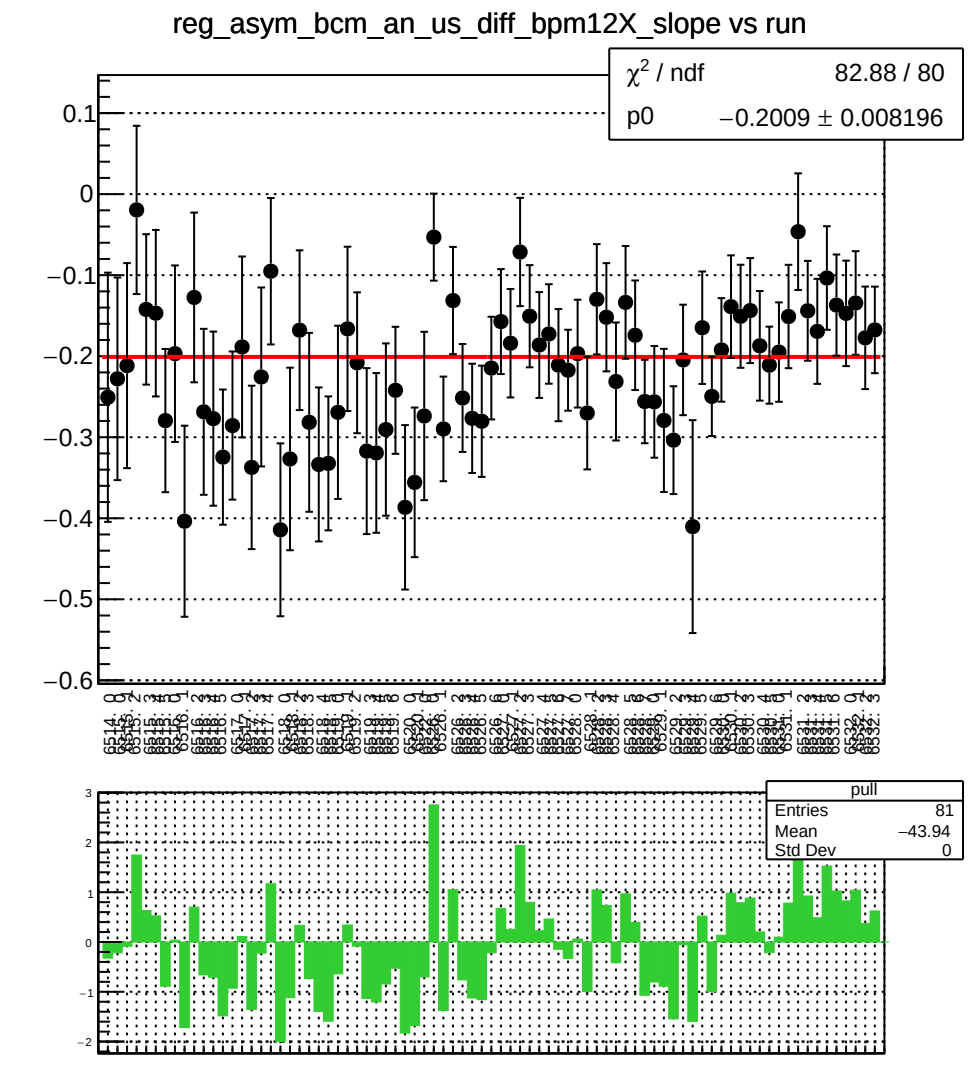

pull1D
Entries 81
Mean 0.2026
Std Dev 3.16

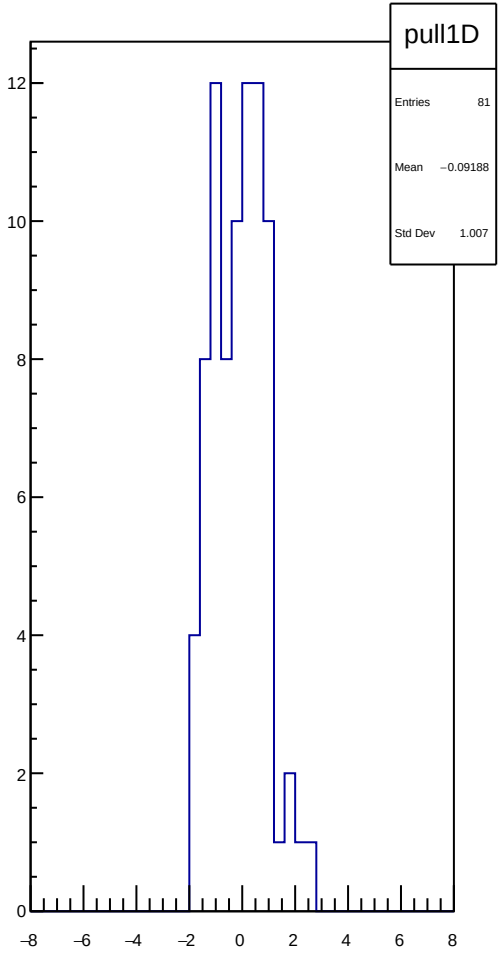

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 2629 / 80
p0 −32.36 ± 0.2116
pull
Entries 81
Mean −49.5
Std Dev 0

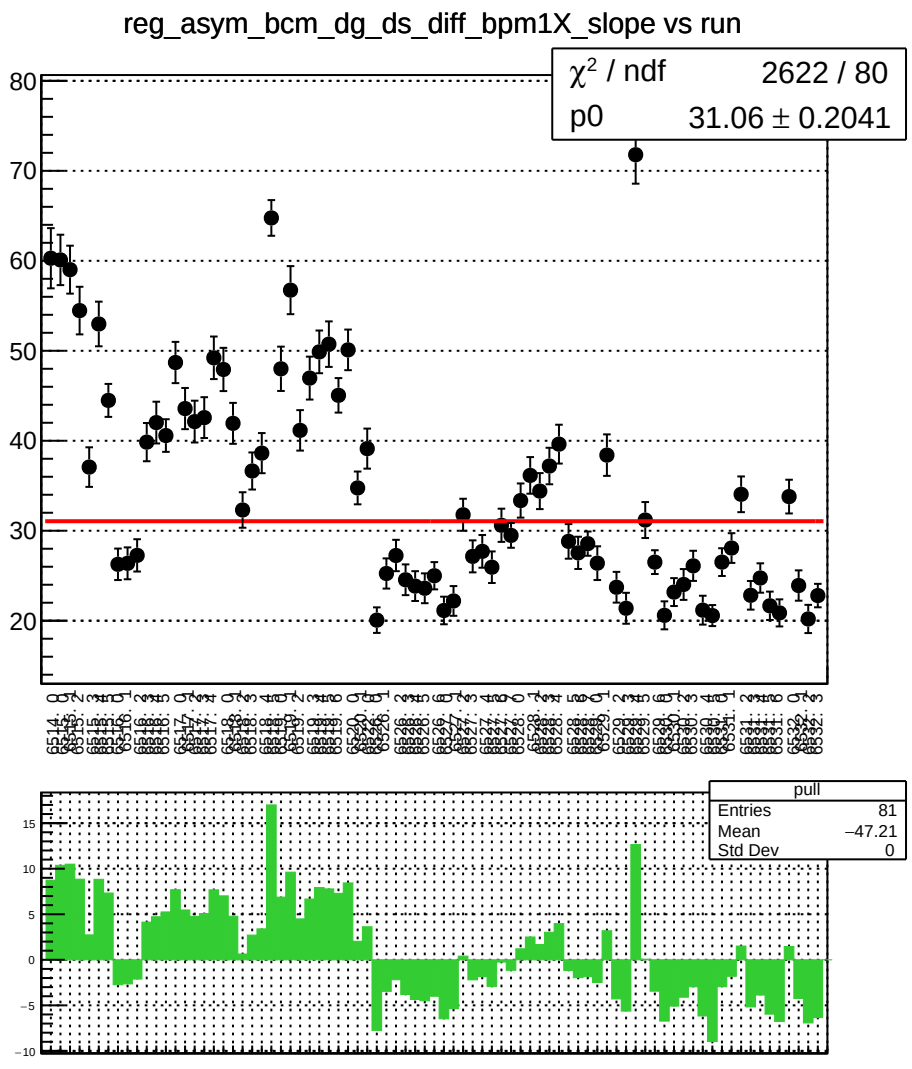

pull1D
Entries 81
Mean 0.2508
Std Dev 4.491

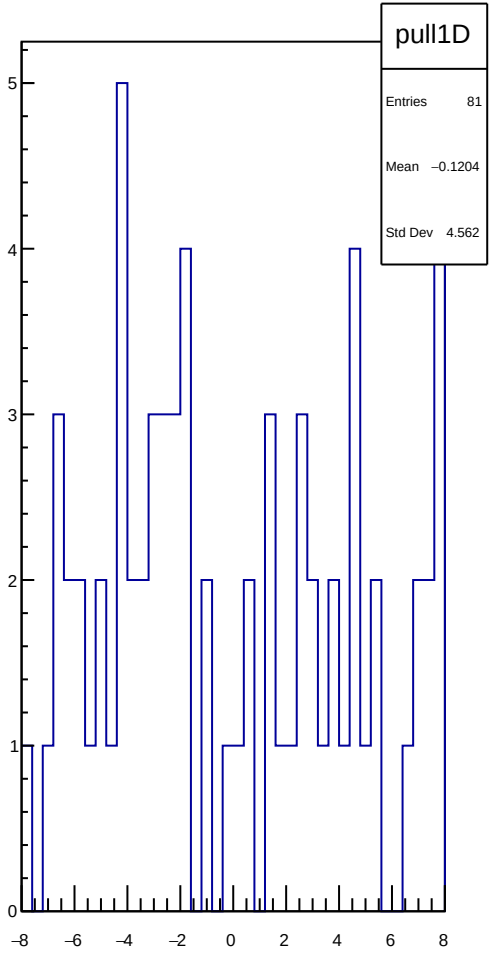

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 782.8 / 80
p0 −0.5951± 0.2532
pull
Entries 81
Mean 758.2
Std Dev 0

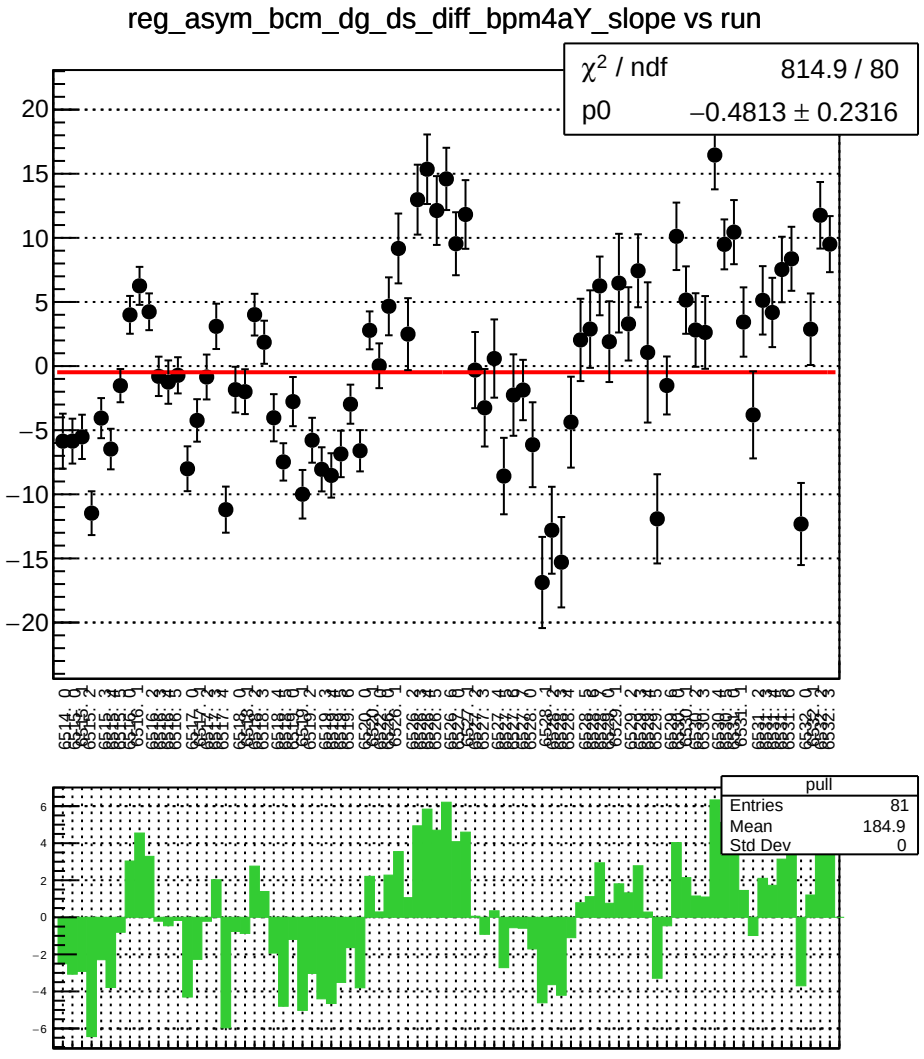

pull1D
Entries 81
Mean −0.0386
Std Dev 3.108

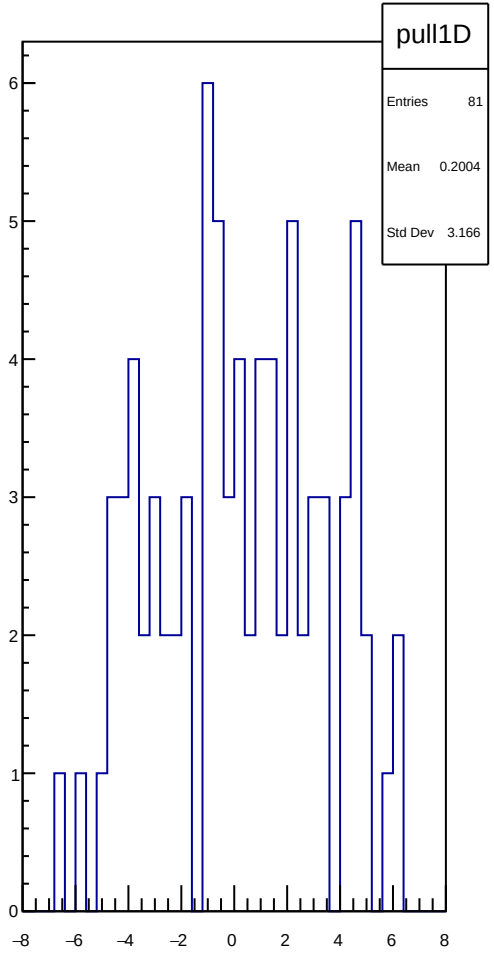

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 82.88 / 80
p0 −0.2009 ± 0.008196
pull
Entries 81
Mean −43.94
Std Dev 0

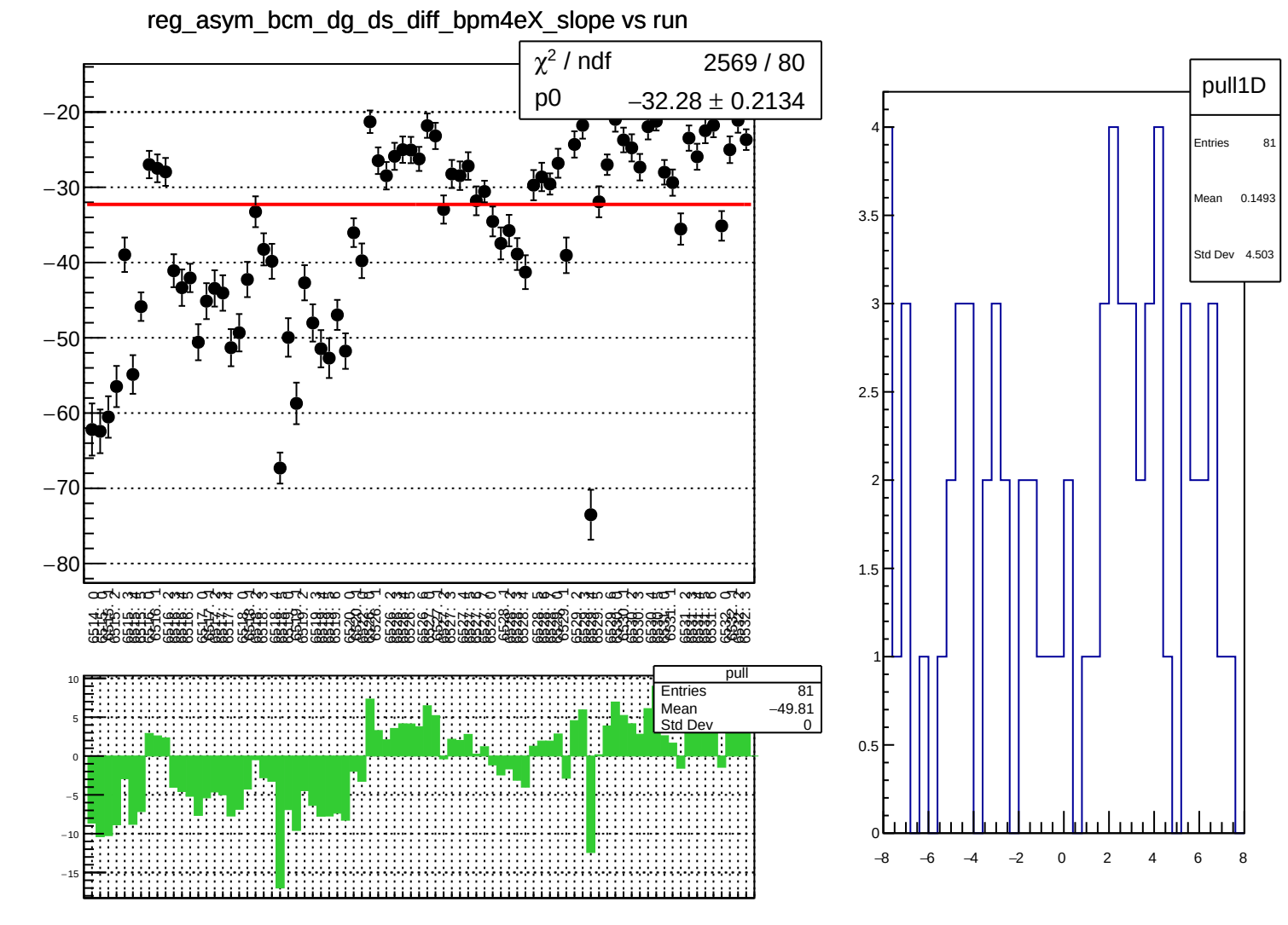

pull1D
Entries 81
Mean −0.09188
Std Dev 1.007

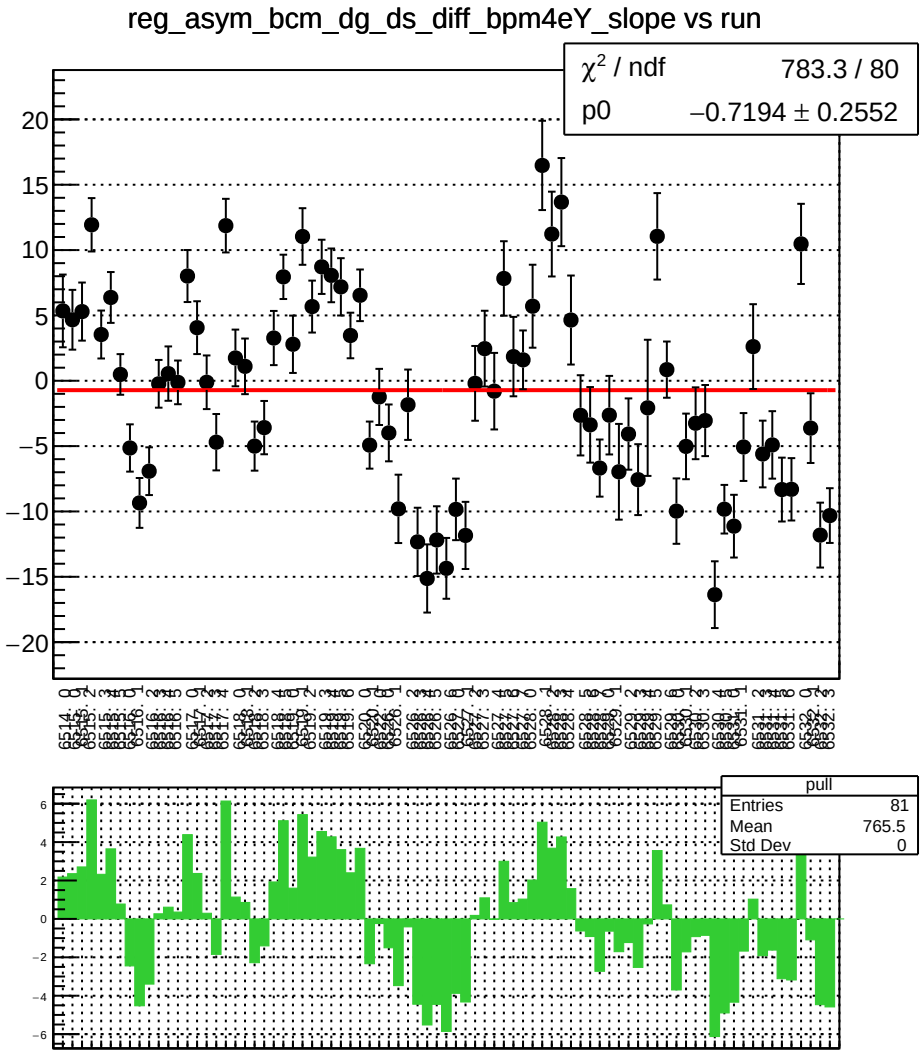

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 2622 / 80
p0 31.06 ± 0.2041
pull
Entries 81
Mean −47.21
Std Dev 0

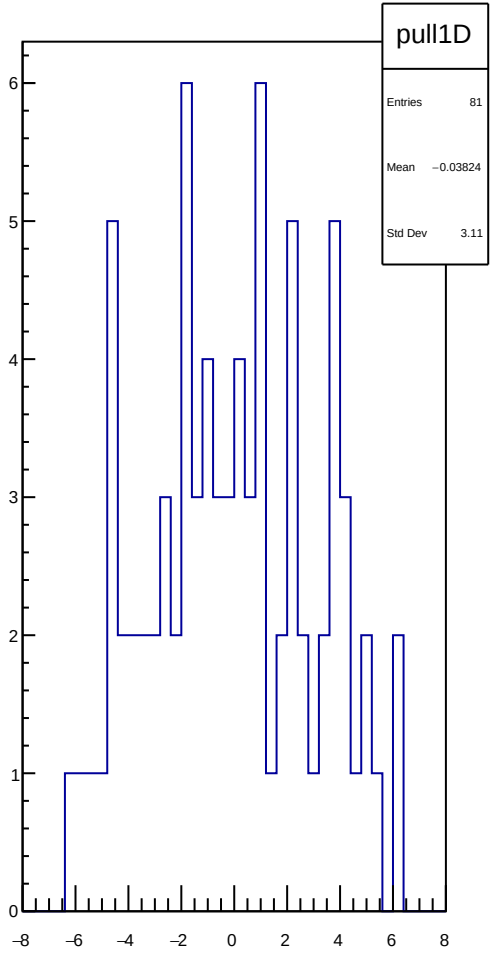

pull1D
Entries 81
Mean −0.1204
Std Dev 4.562

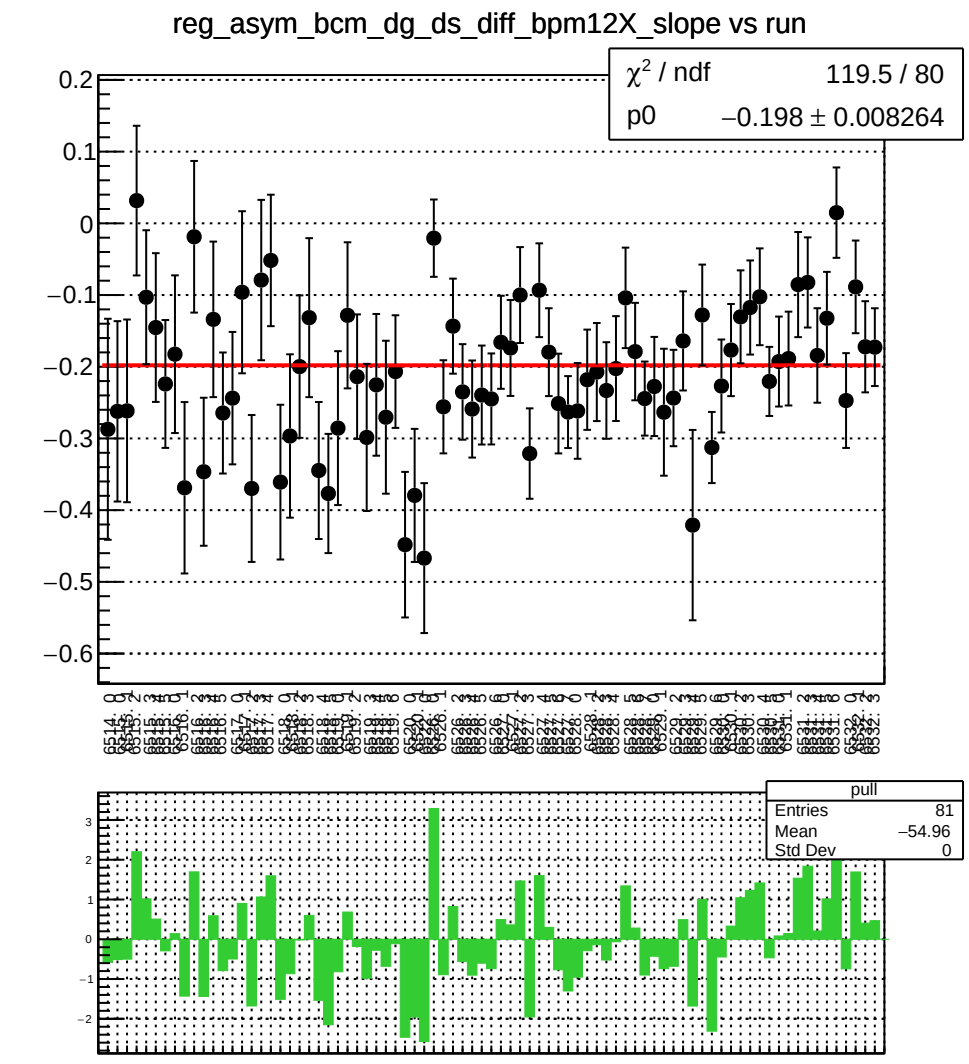

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 814.9 / 80
p0 −0.4813 ± 0.2316
pull
Entries 81
Mean 184.9
Std Dev 0

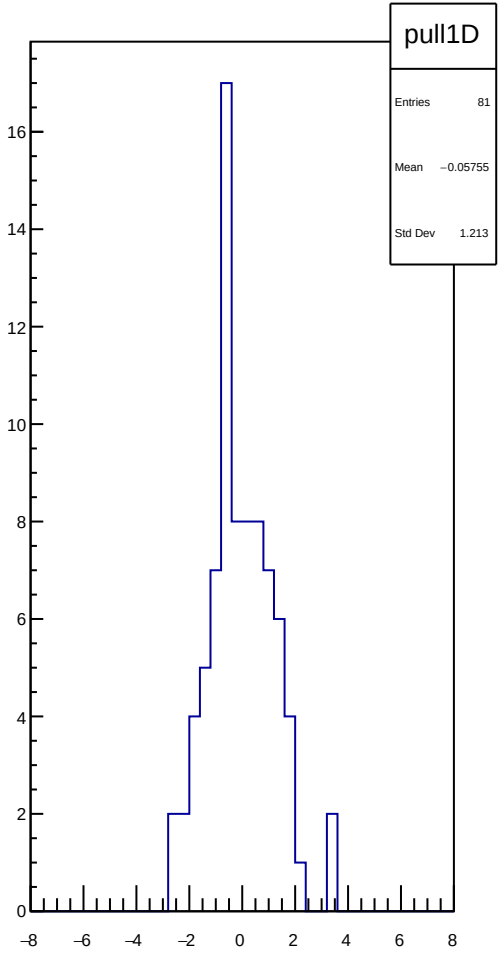

pull1D
Entries 81
Mean 0.2004
Std Dev 3.166

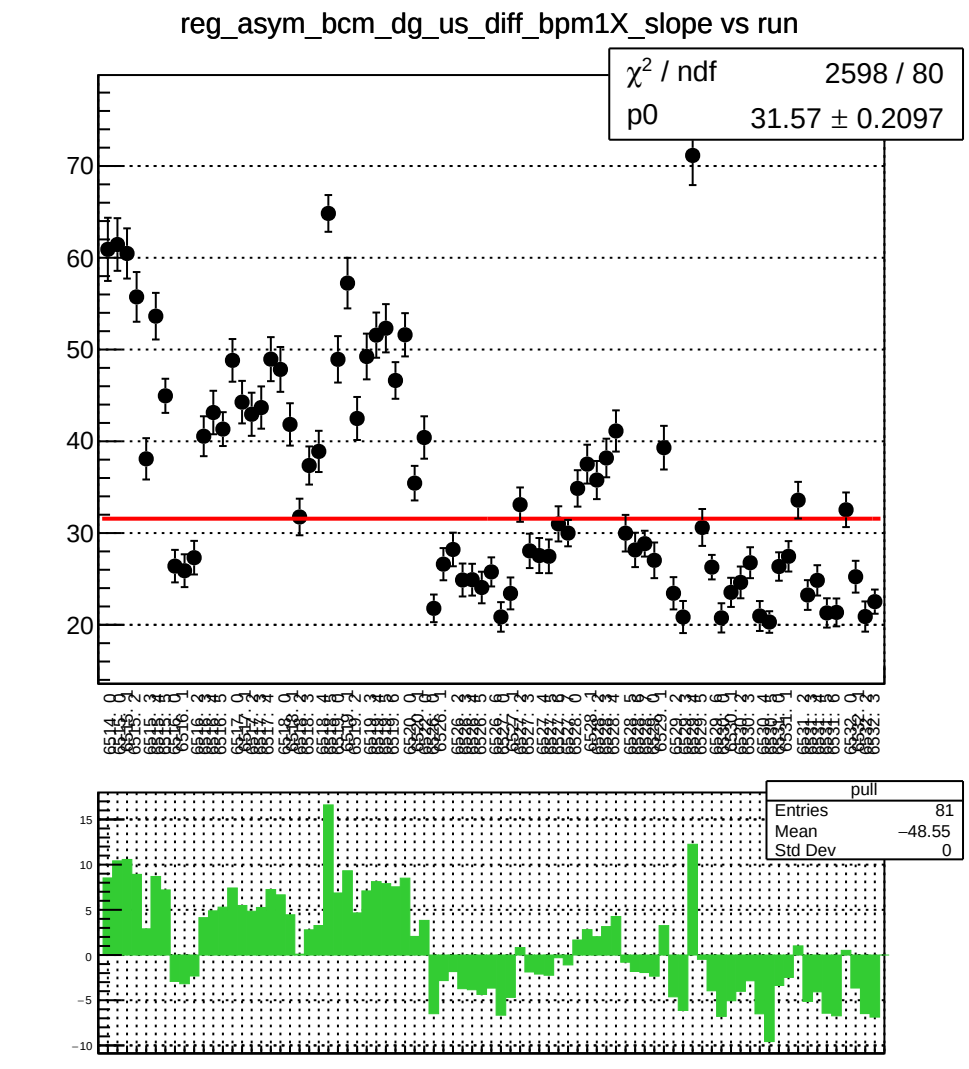

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 2569 / 80
p0 −32.28 ± 0.2134
pull
Entries 81
Mean −49.81
Std Dev 0
pull1D
Entries 81
Mean 0.1493
Std Dev 4.503

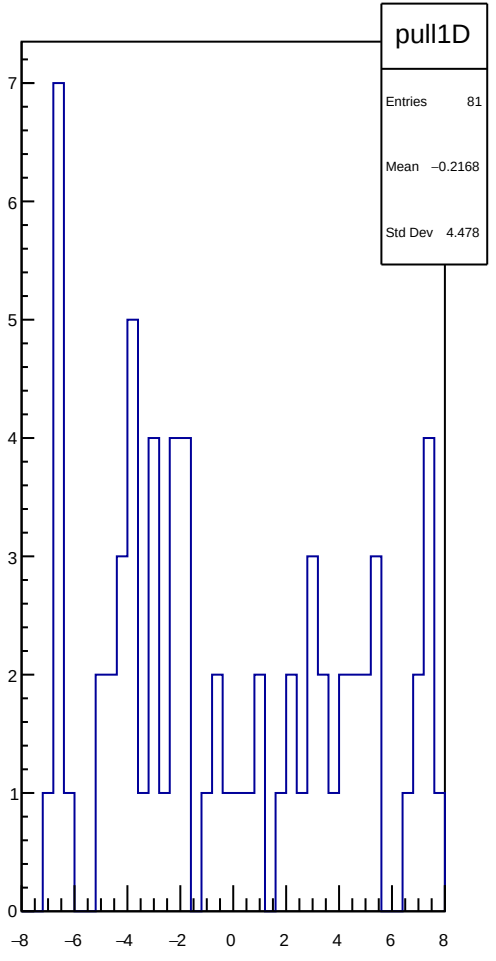

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 783.3 / 80
p0 −0.7194 ± 0.2552
pull
Entries 81
Mean 765.5
Std Dev 0

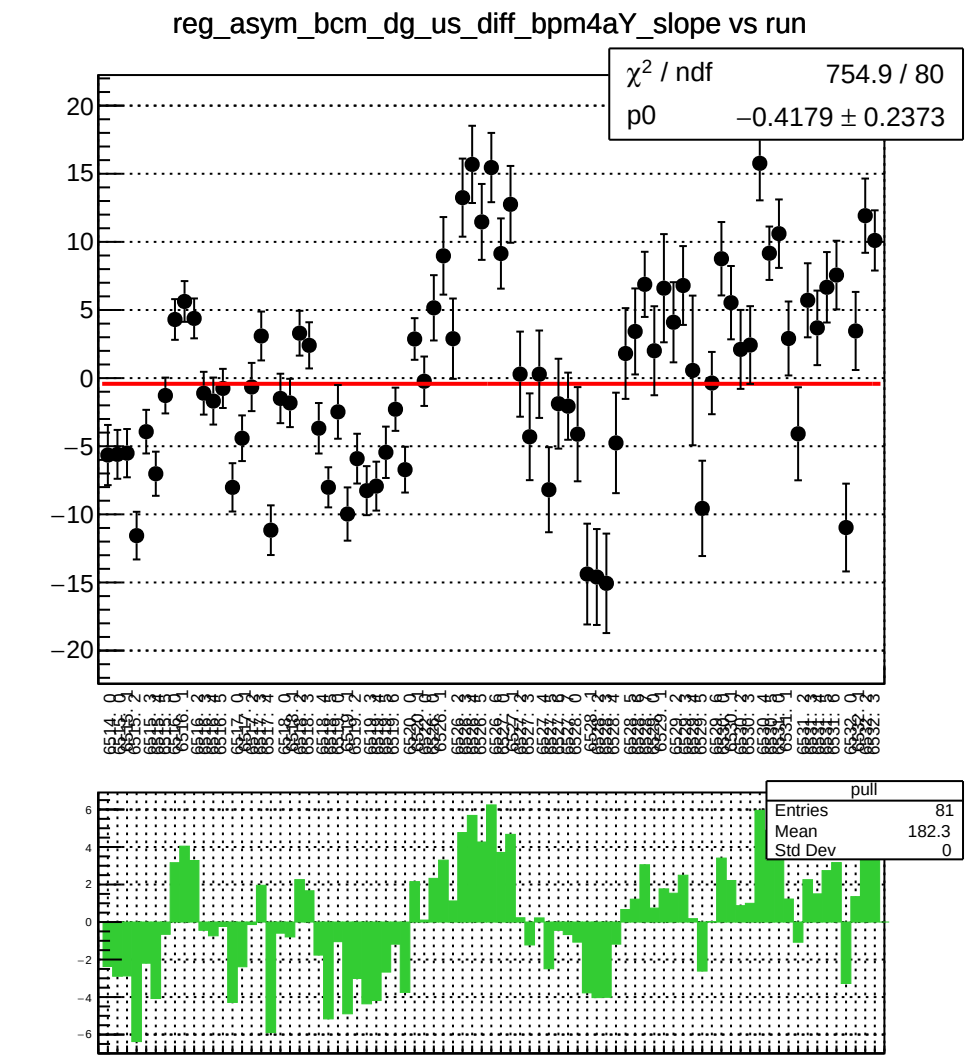

pull1D
Entries 81
Mean −0.03824
Std Dev 3.11

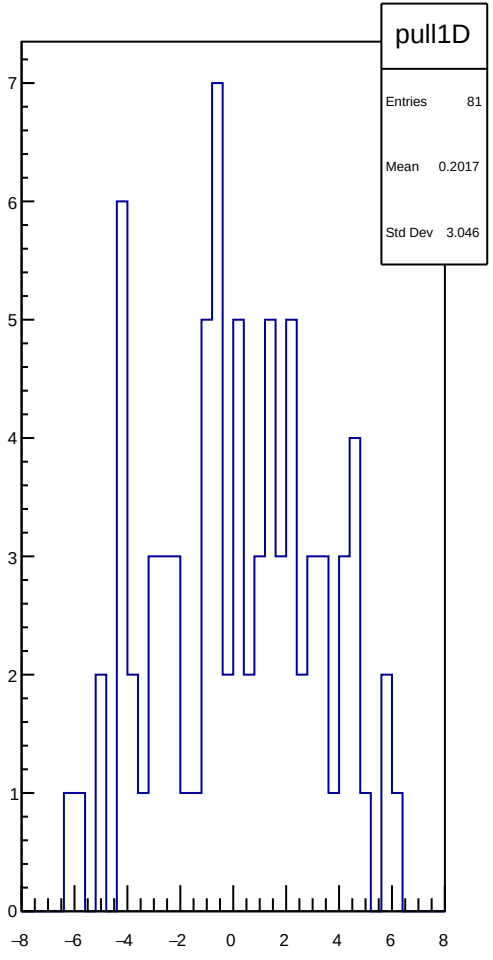

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 119.5 / 80
p0 −0.198 ± 0.008264
pull
Entries 81
Mean −54.96
Std Dev 0

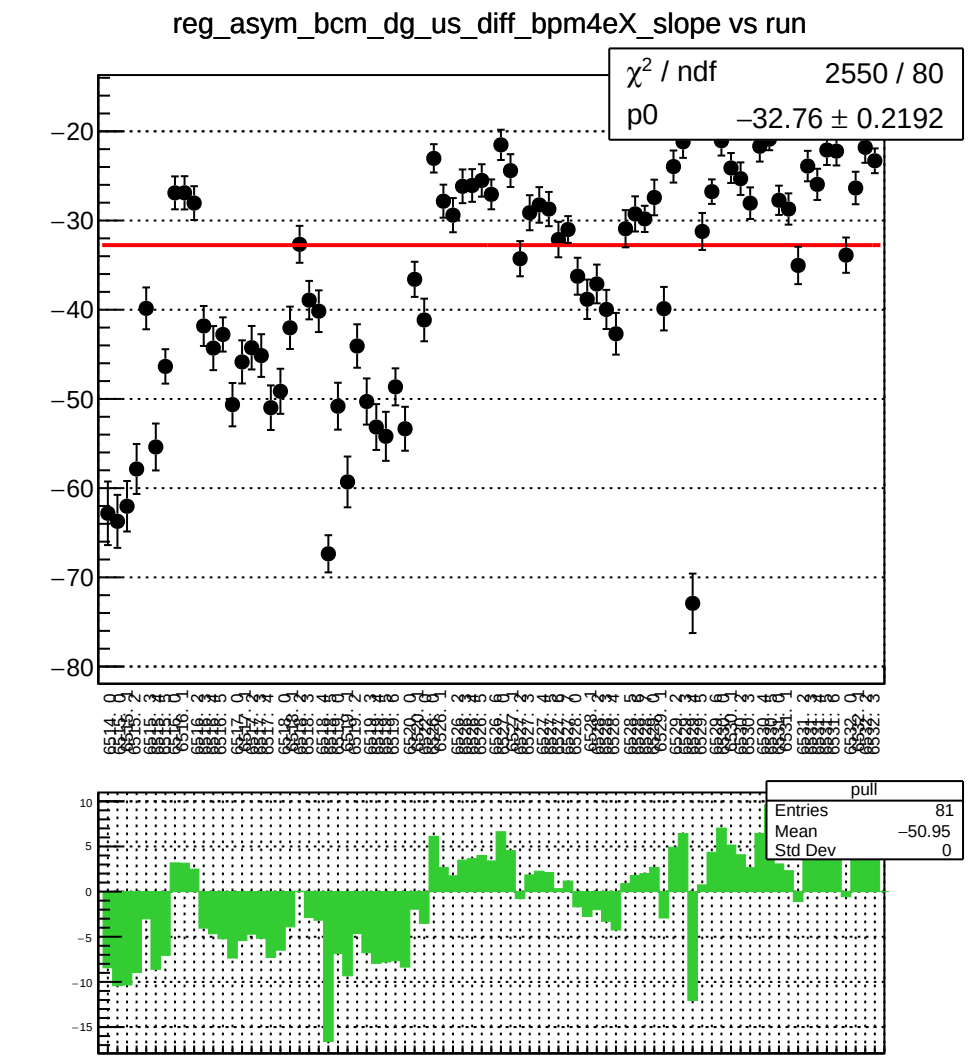

pull1D
Entries 81
Mean −0.05755
Std Dev 1.213

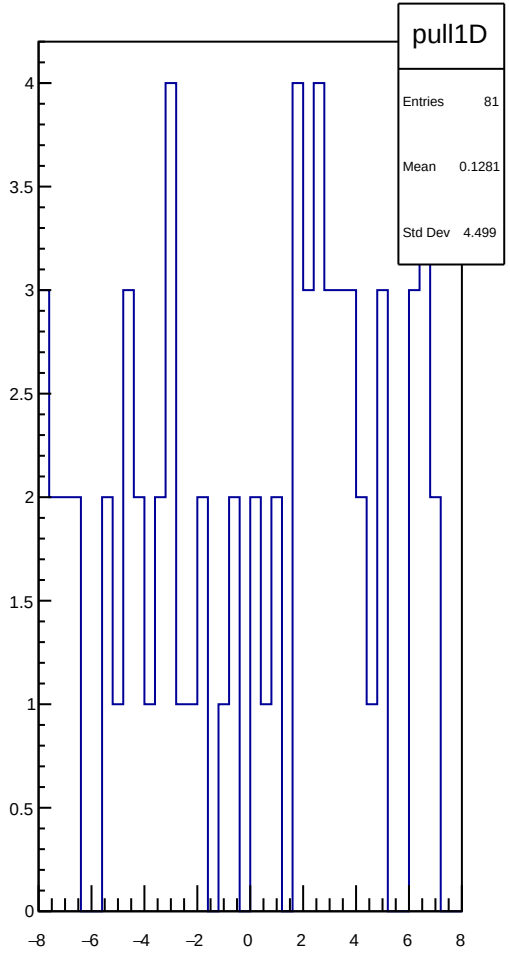

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 2598 / 80
p0 31.57 ± 0.2097
pull
Entries 81
Mean −48.55
Std Dev 0

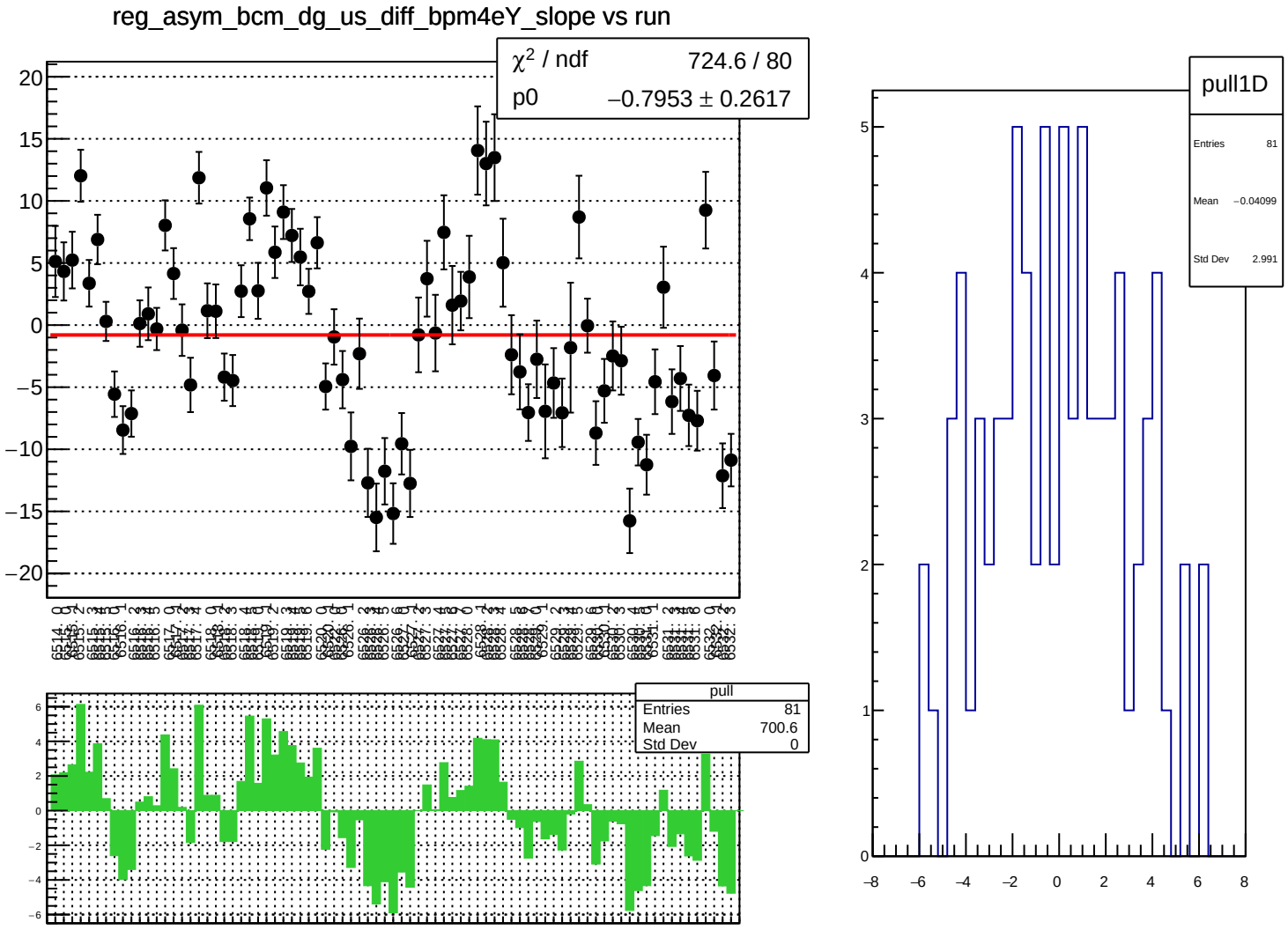

pull1D
Entries 81
Mean −0.2168
Std Dev 4.478

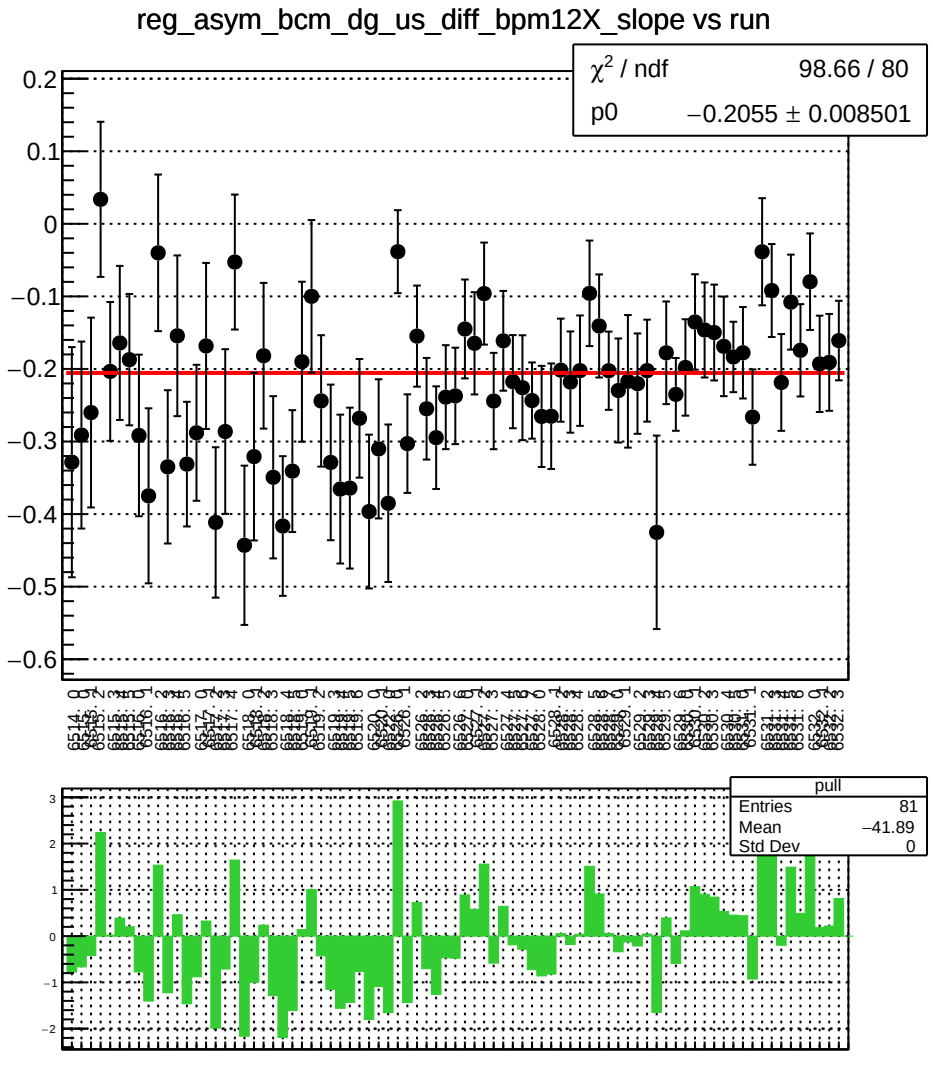

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 754.9 / 80
p0 −0.4179 ± 0.2373
pull
Entries 81
Mean 182.3
Std Dev 0

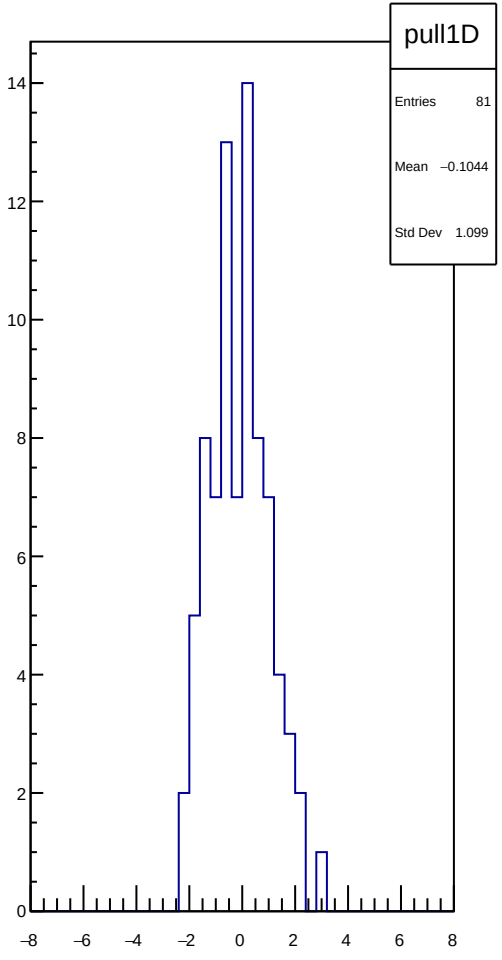

pull1D
Entries 81
Mean 0.2017
Std Dev 3.046

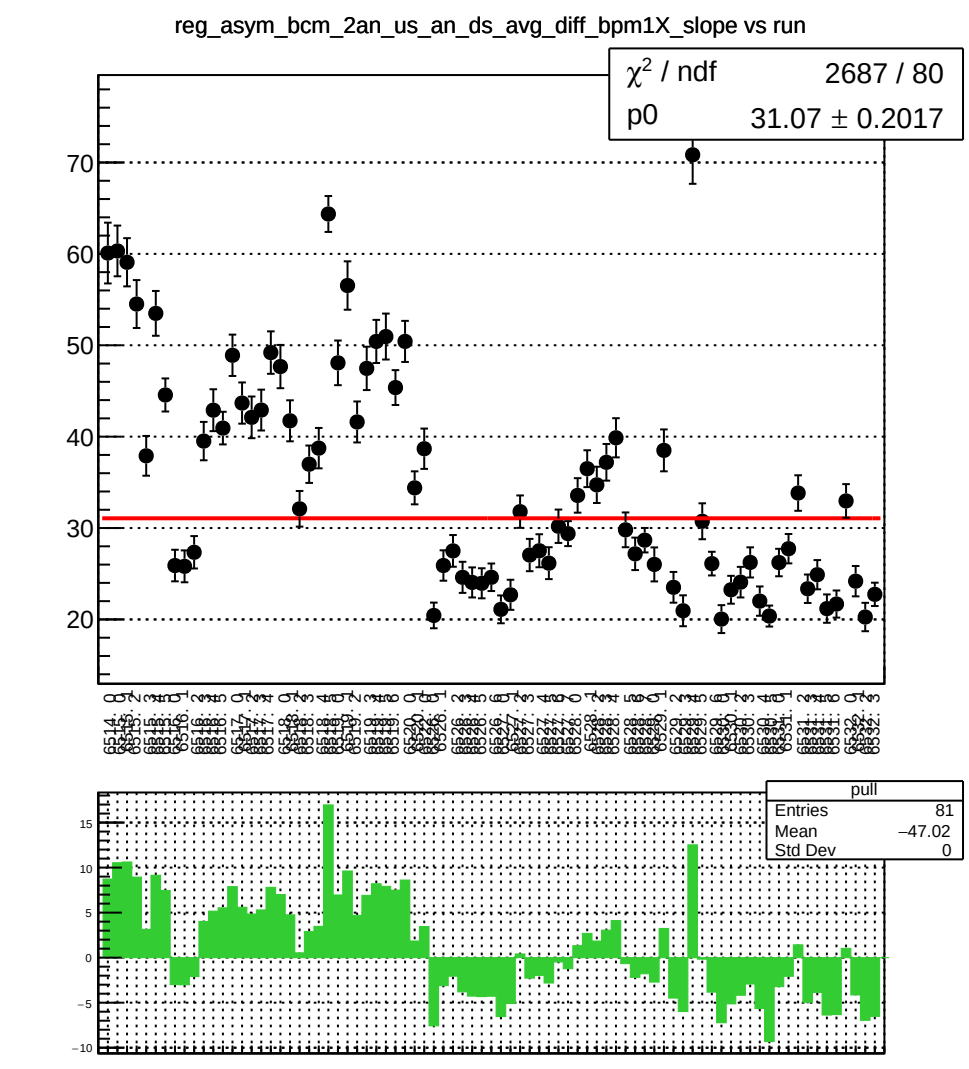

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 2550 / 80
p0 −32.76 ± 0.2192
pull
Entries 81
Mean −50.95
Std Dev 0

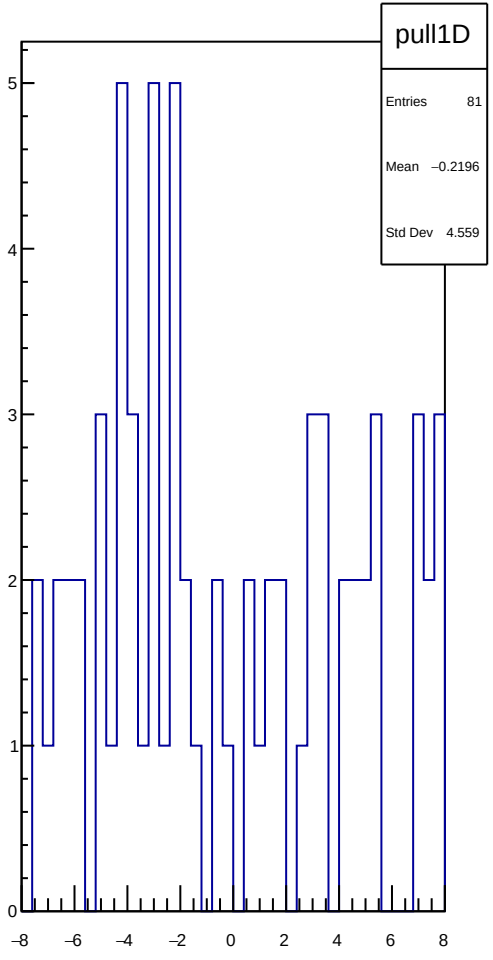

pull1D
Entries 81
Mean 0.1281
Std Dev 4.499

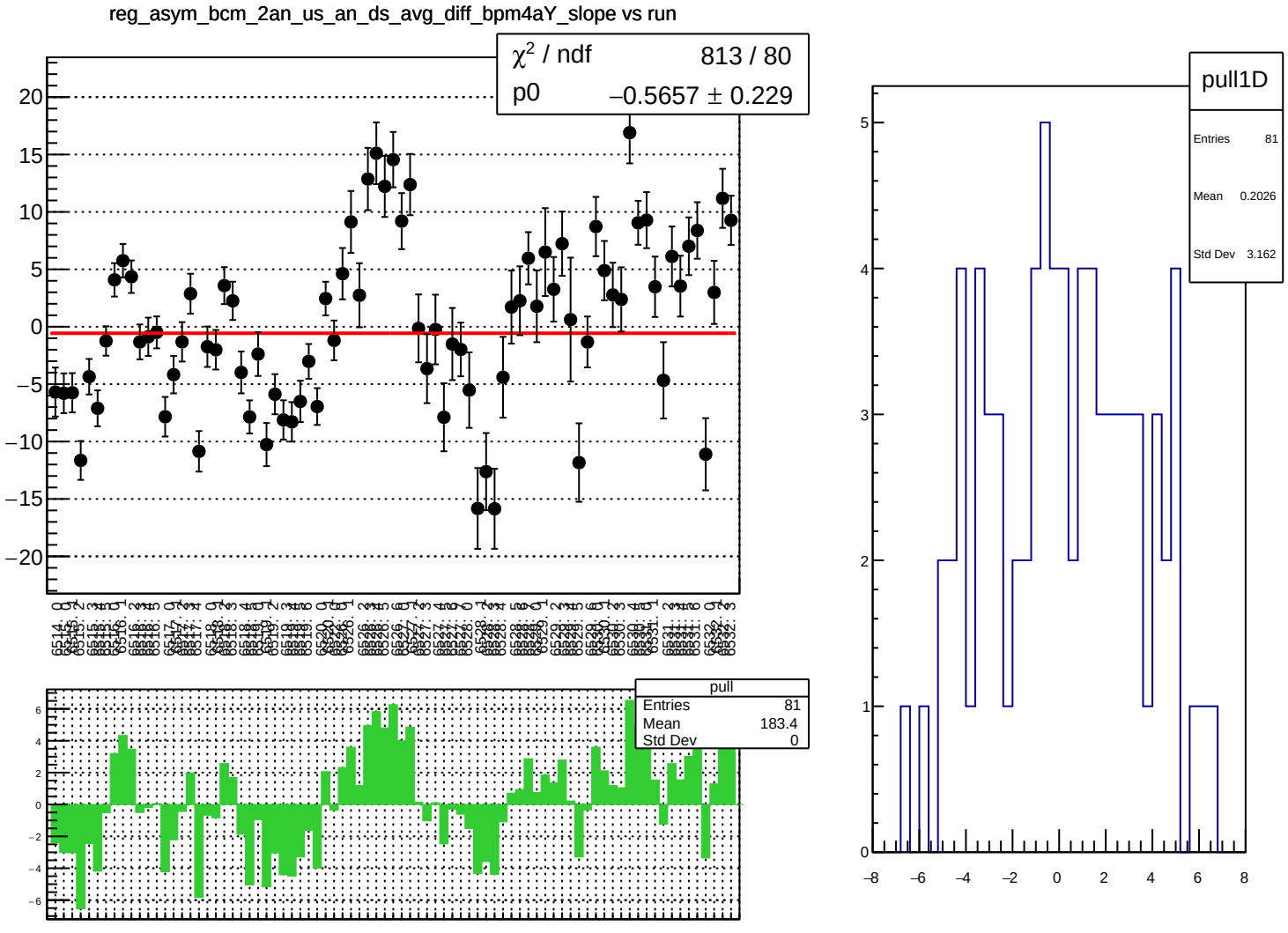

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 724.6 / 80
p0 −0.7953 ± 0.2617
pull
Entries 81
Mean 700.6
Std Dev 0
pull1D
Entries 81
Mean −0.04099
Std Dev 2.991

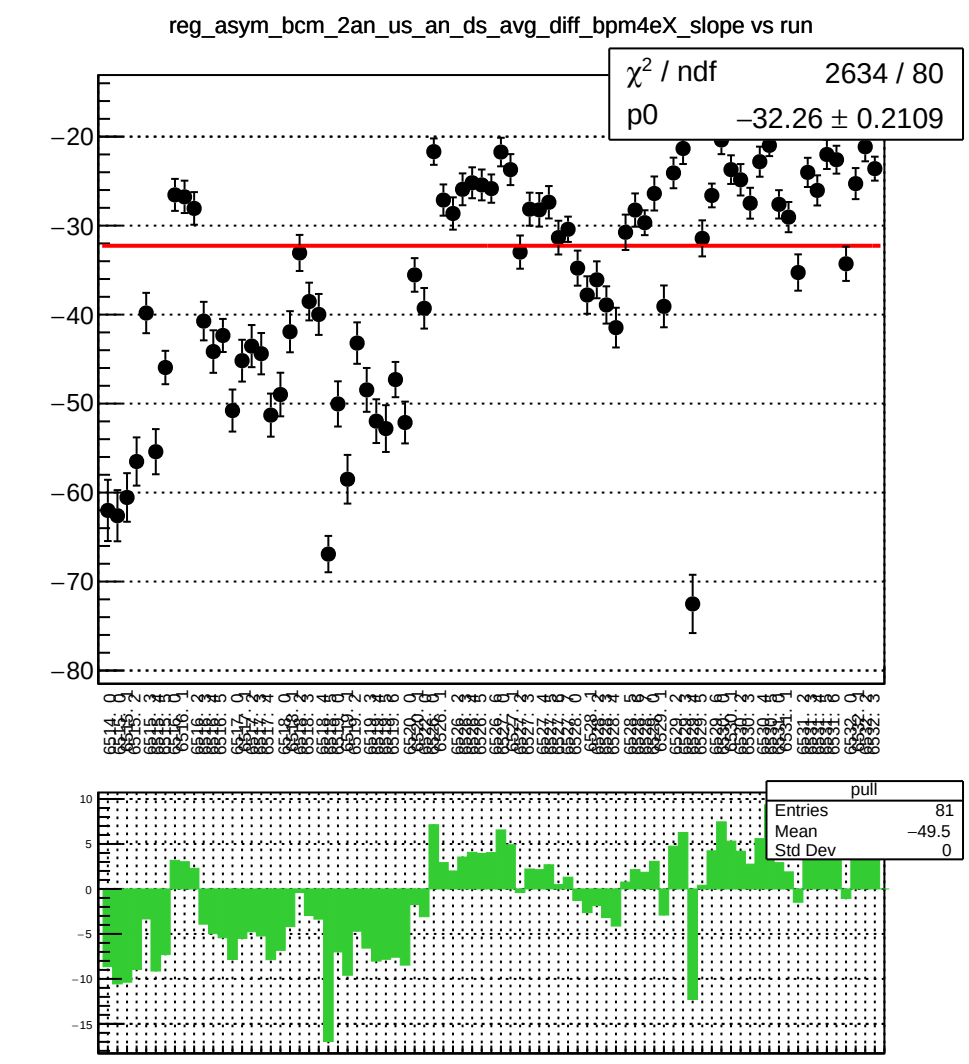

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 98.66 / 80
p0 −0.2055 ± 0.008501
pull
Entries 81
Mean −41.89
Std Dev 0

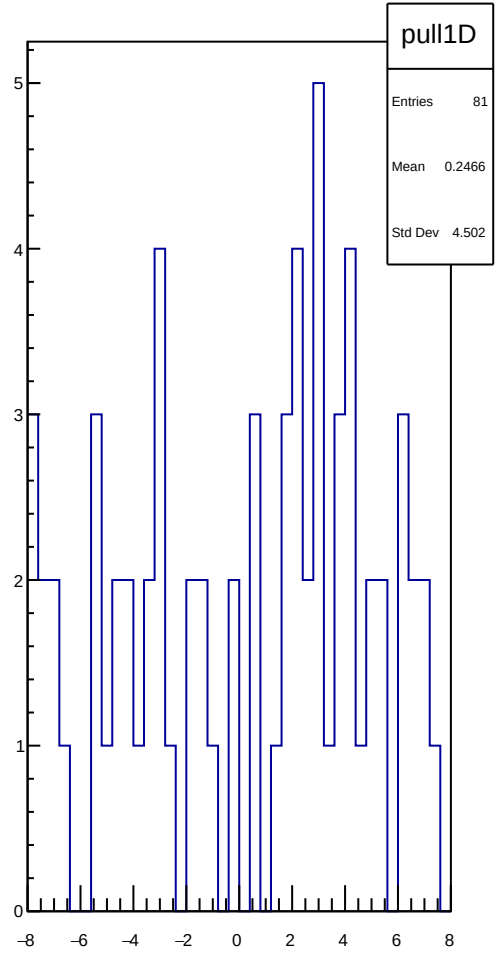

pull1D
Entries 81
Mean −0.1044
Std Dev 1.099

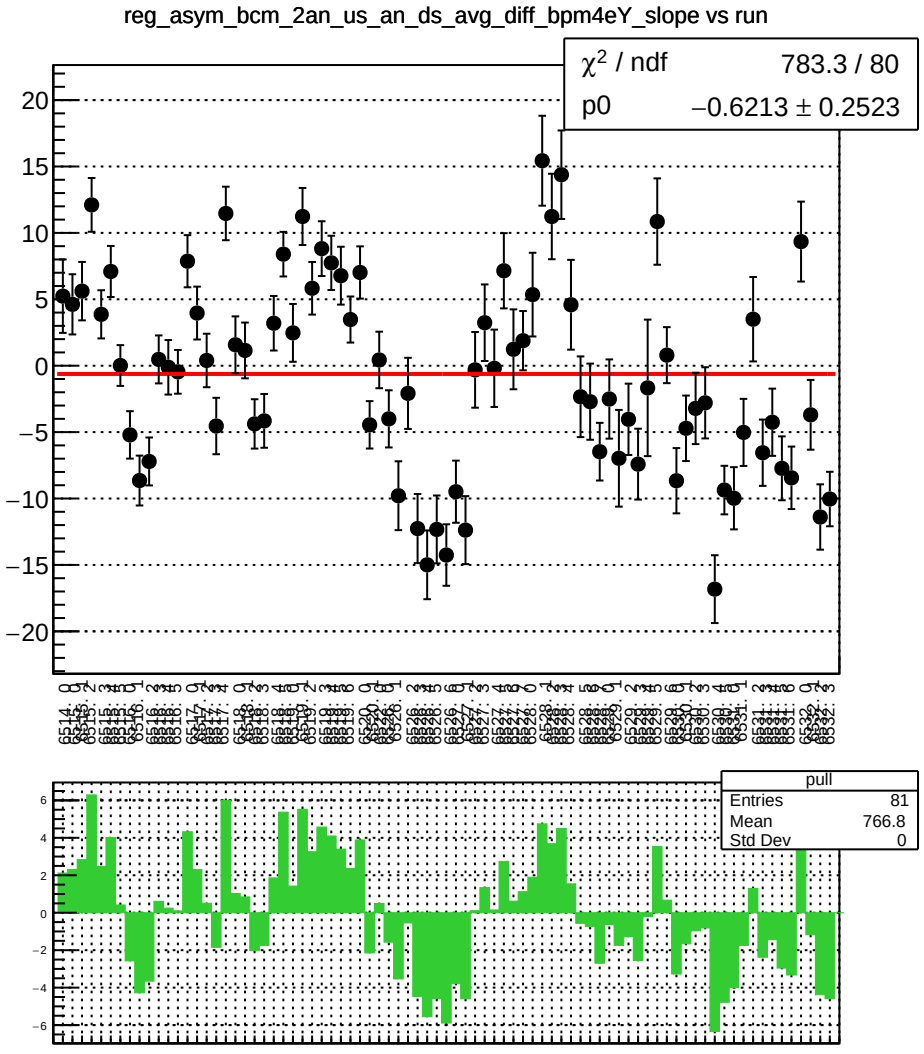

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 2687 / 80
p0 31.07 ± 0.2017
pull
Entries 81
Mean −47.02
Std Dev 0

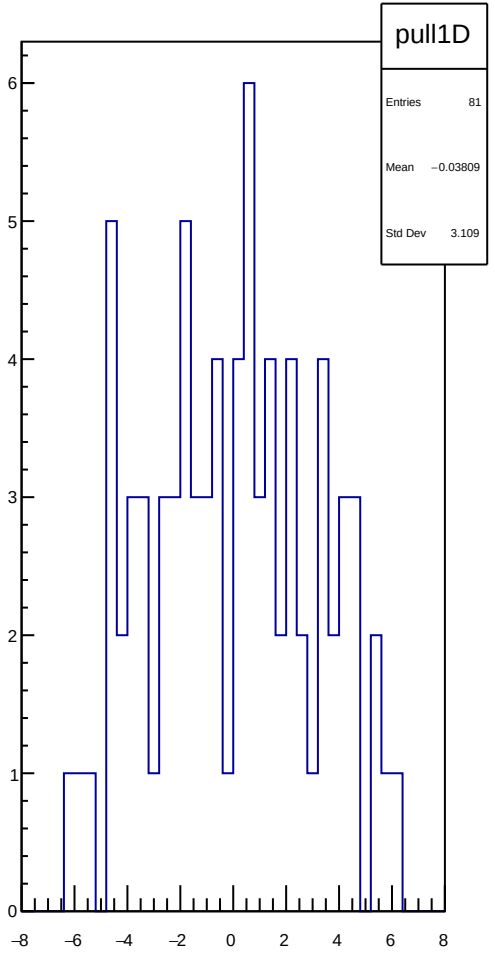

pull1D
Entries 81
Mean −0.2196
Std Dev 4.559

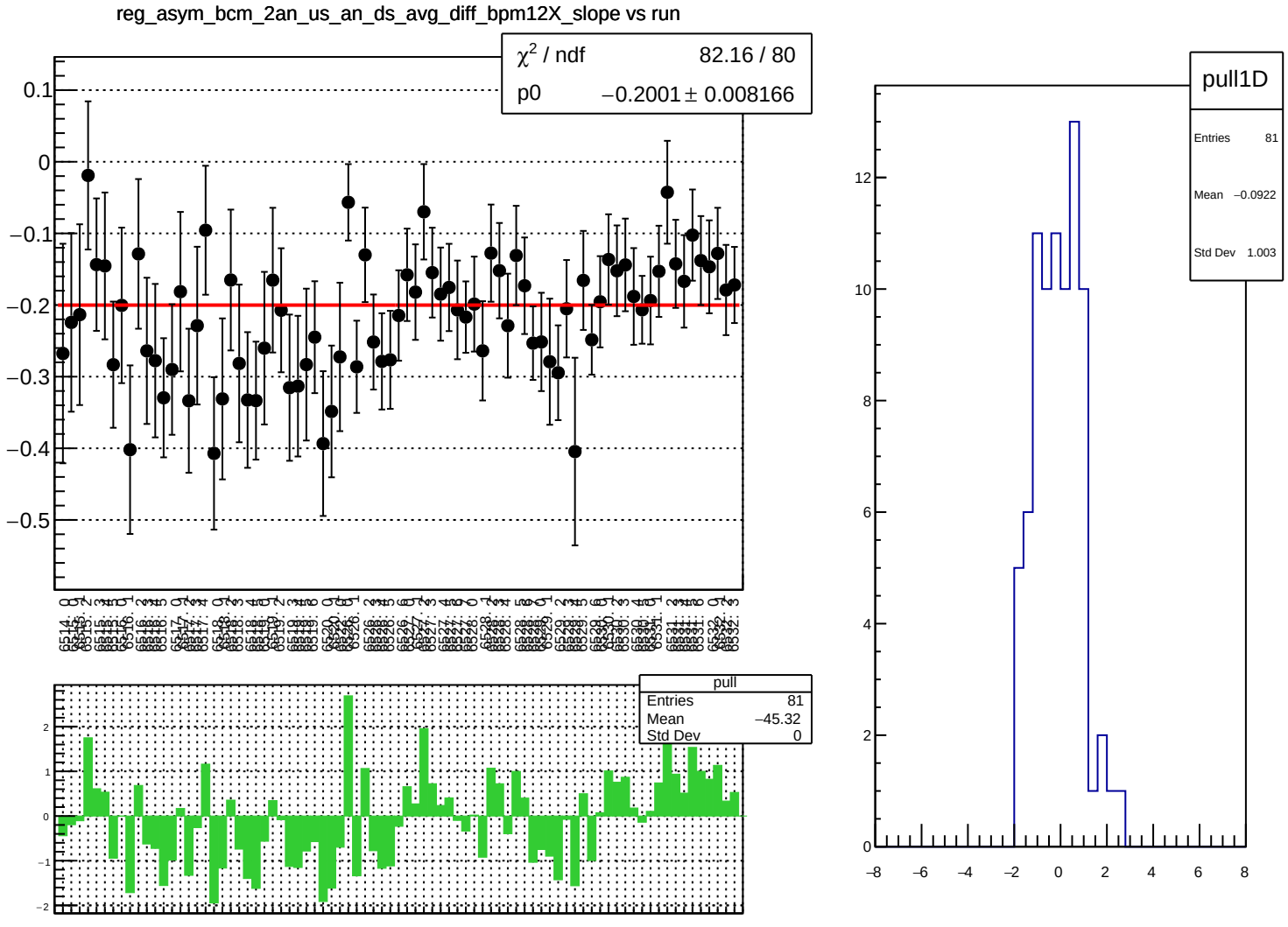

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 813 / 80
p0 −0.5657 ± 0.229
pull
Entries 81
Mean 183.4
Std Dev 0
pull1D
Entries 81
Mean 0.2026
Std Dev 3.162

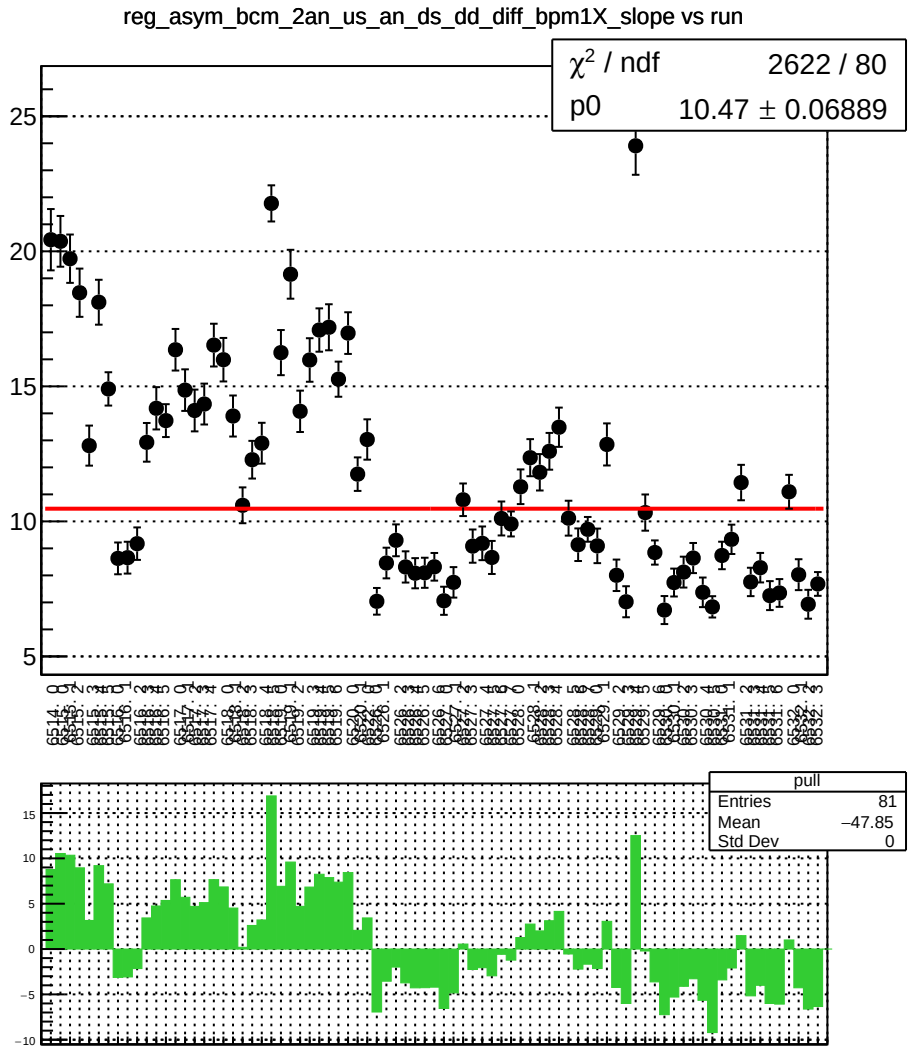

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 2634 / 80
p0 −32.26 ± 0.2109
pull
Entries 81
Mean −49.5
Std Dev 0

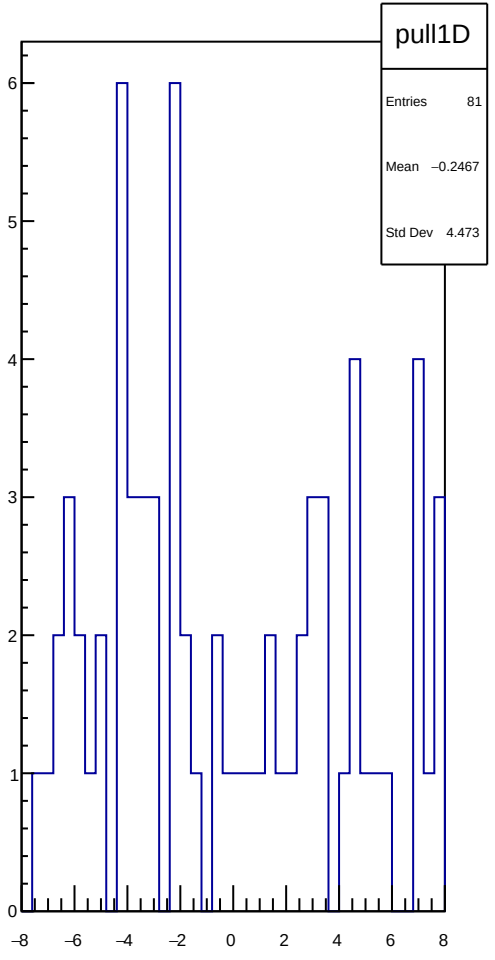

pull1D
Entries 81
Mean 0.2466
Std Dev 4.502

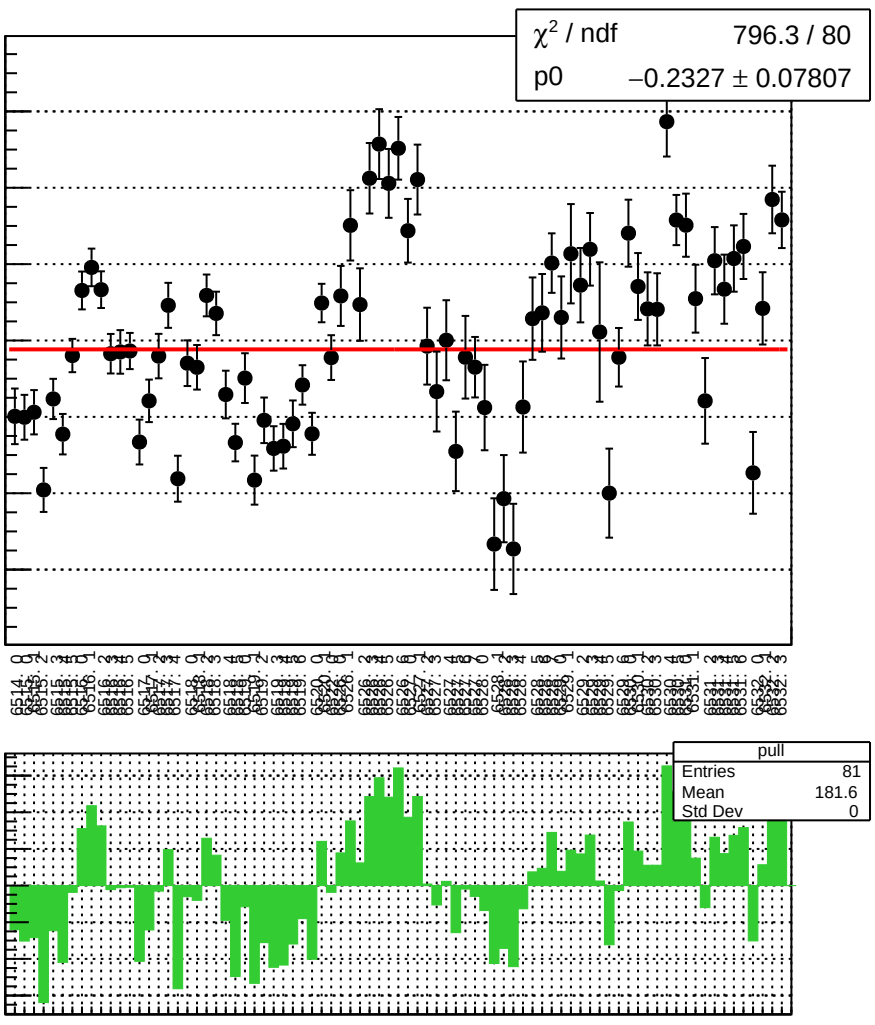

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 783.3 / 80
p0 −0.6213 ± 0.2523
pull
Entries 81
Mean 766.8
Std Dev 0

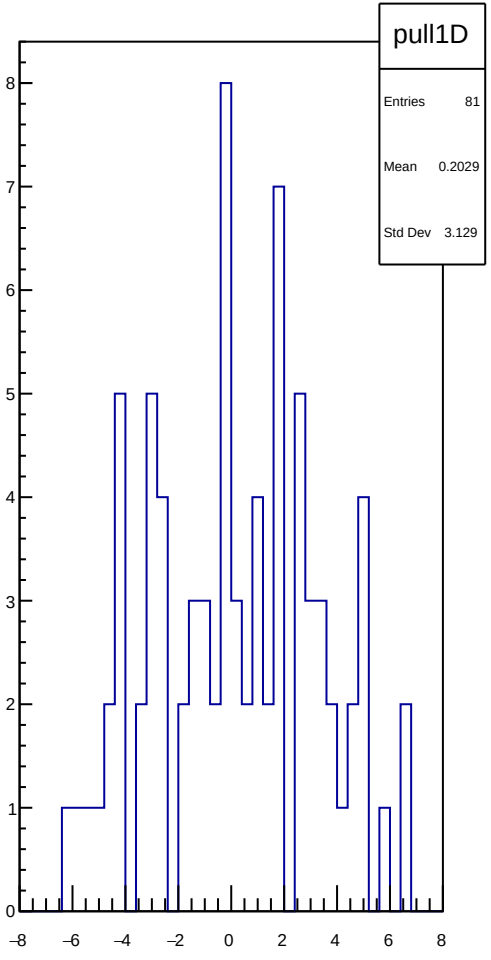

pull1D
Entries 81
Mean −0.03809
Std Dev 3.109

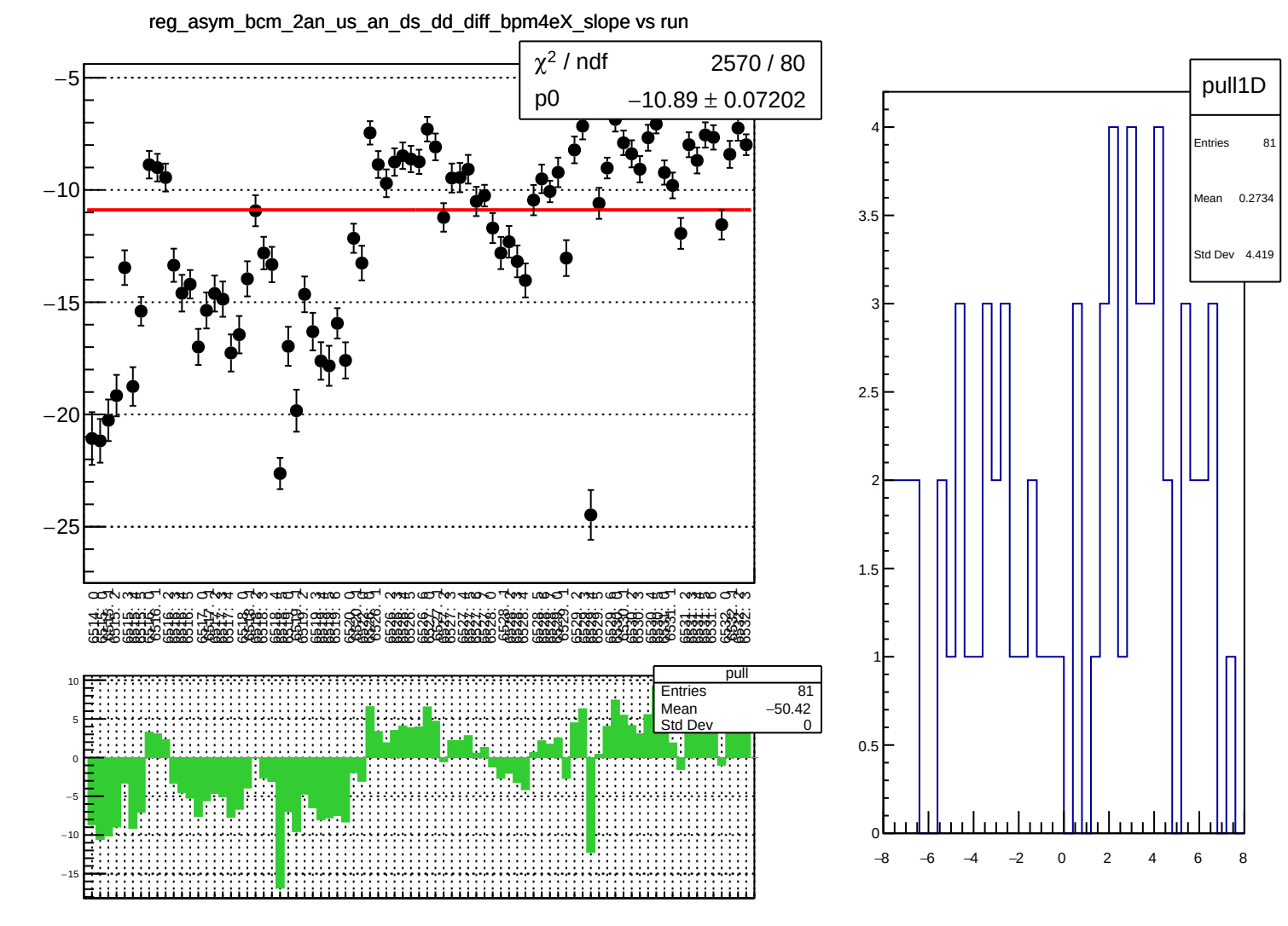

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 82.16 / 80
p0 −0.2001 ± 0.008166
pull
Entries 81
Mean −45.32
Std Dev 0
pull1D
Entries 81
Mean −0.0922
Std Dev 1.003

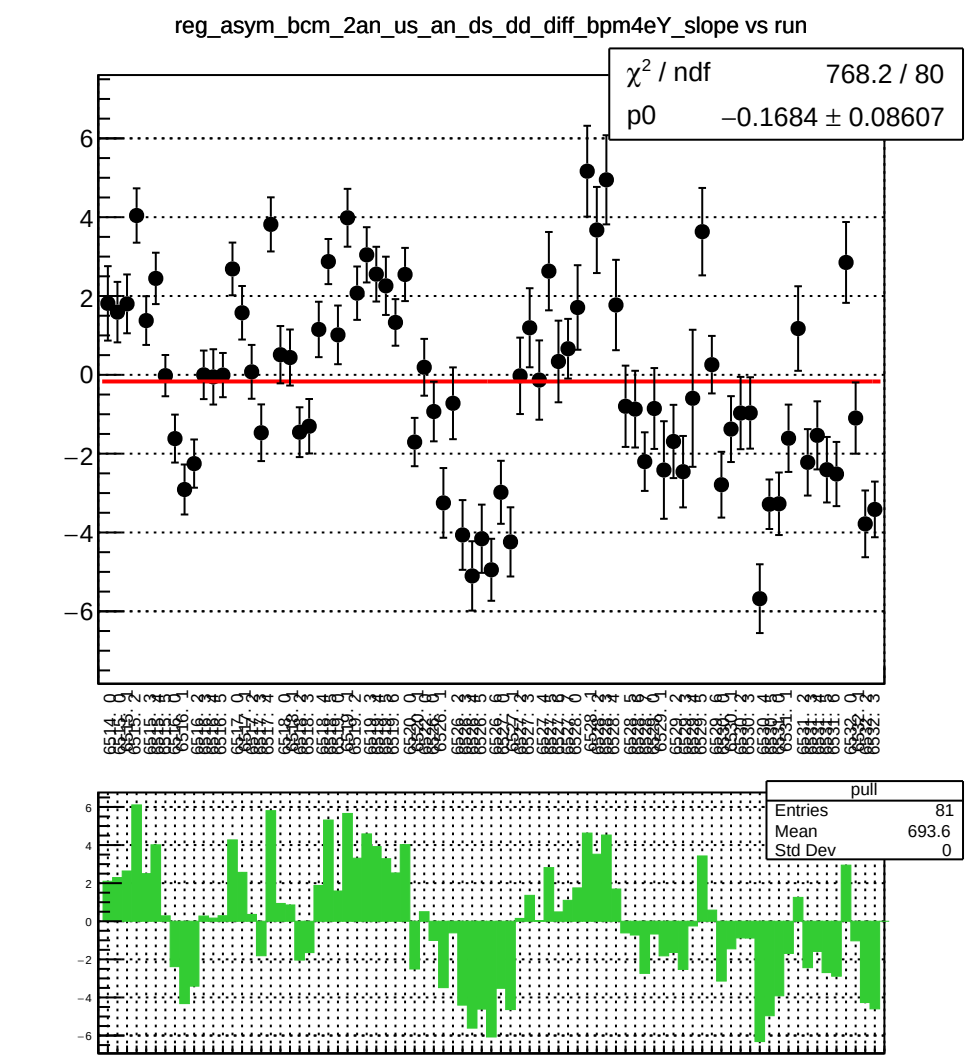

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 2622 / 80
p0 10.47 ± 0.06889
pull
Entries 81
Mean −47.85
Std Dev 0

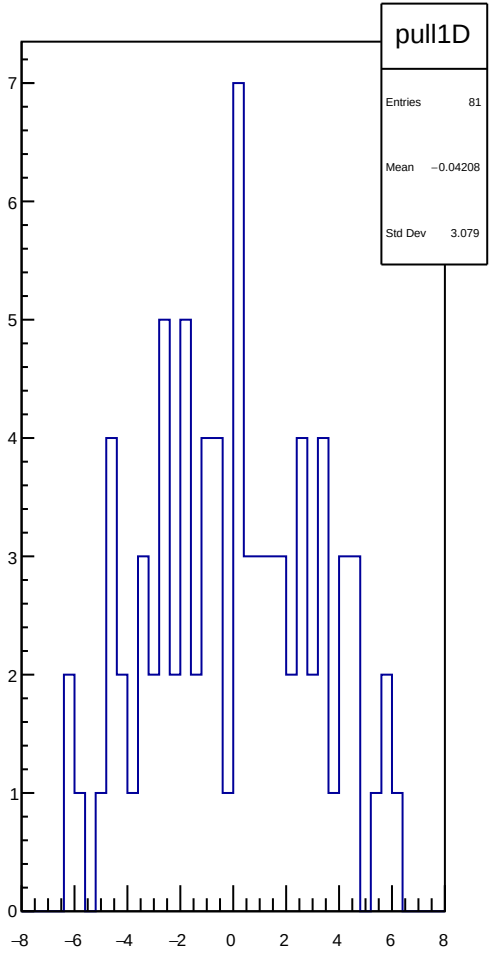

pull1D
Entries 81
Mean −0.2467
Std Dev 4.473

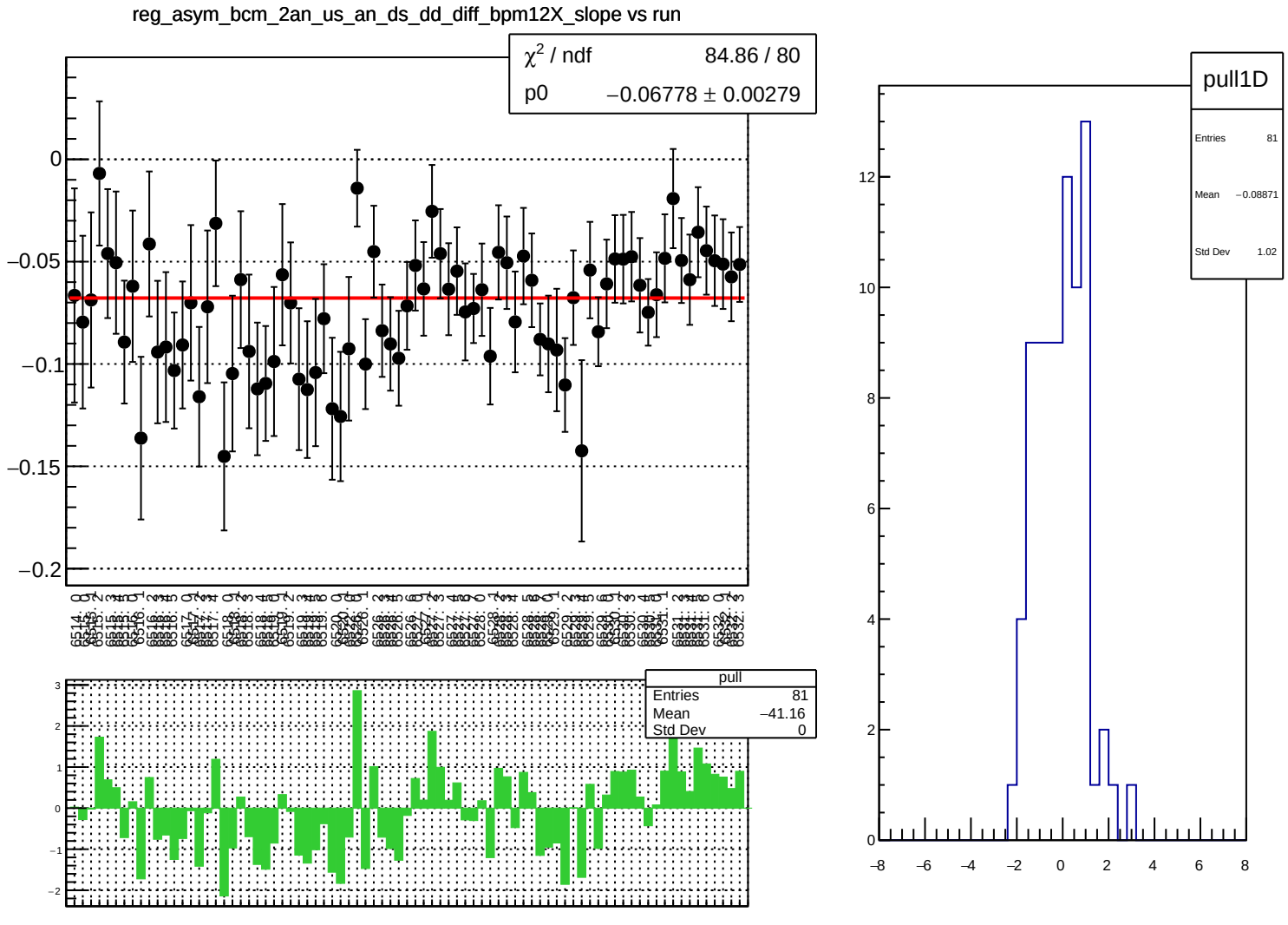

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 796.3 / 80
p0 −0.2327 ± 0.07807
pull
Entries 81
Mean 181.6
Std Dev 0

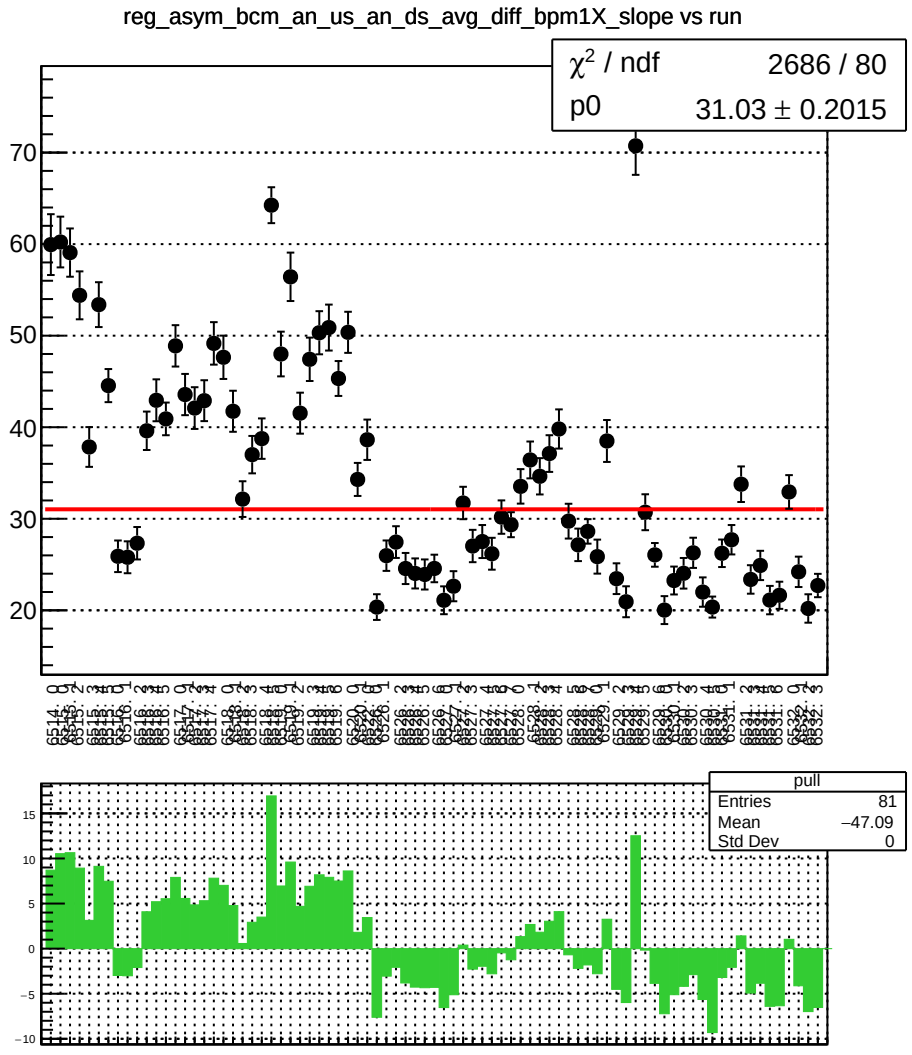

pull1D
Entries 81
Mean 0.2029
Std Dev 3.129

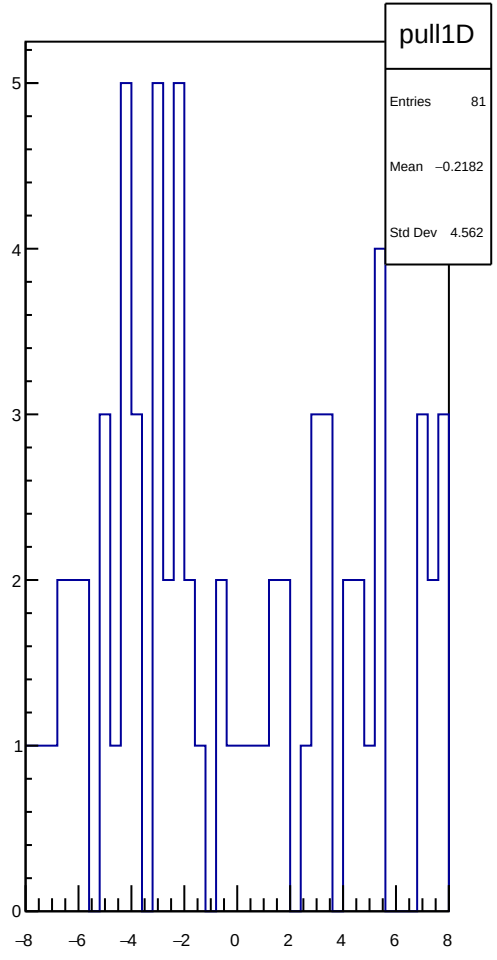

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 2570 / 80
p0 −10.89 ± 0.07202
pull
Entries 81
Mean −50.42
Std Dev 0
pull1D
Entries 81
Mean 0.2734
Std Dev 4.419

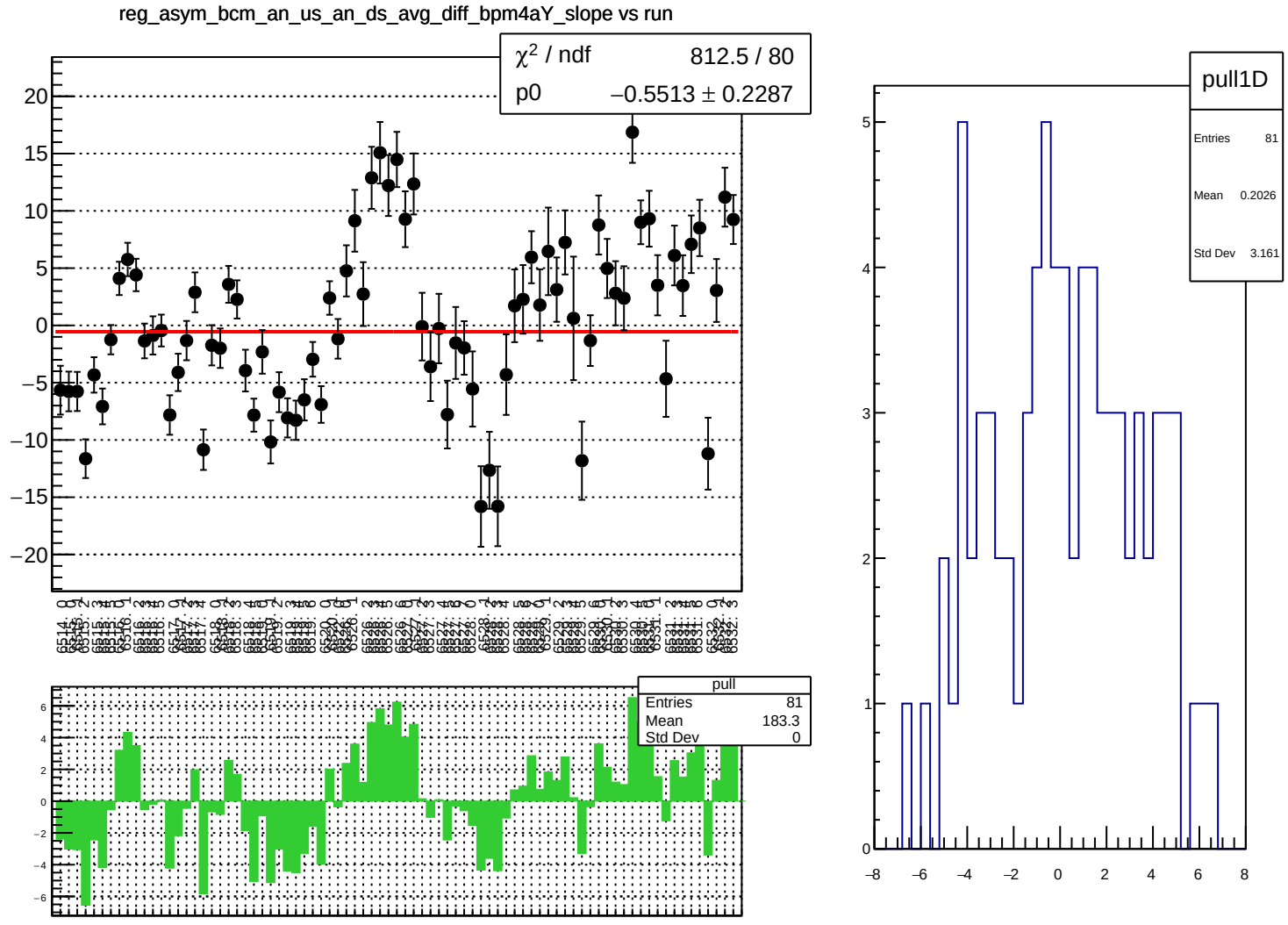

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 768.2 / 80
p0 −0.1684 ± 0.08607
pull
Entries 81
Mean 693.6
Std Dev 0

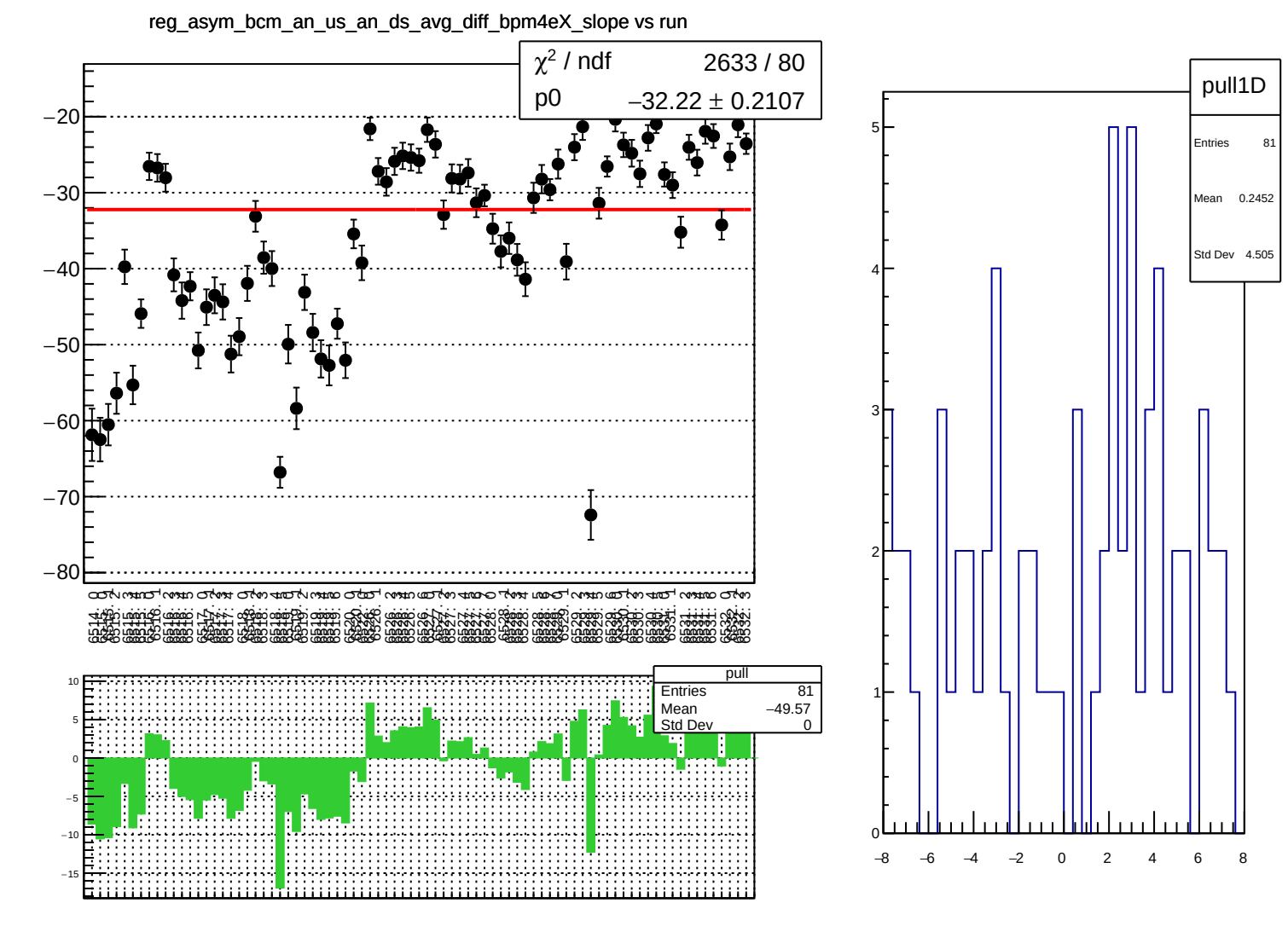

pull1D
Entries 81
Mean −0.04208
Std Dev 3.079

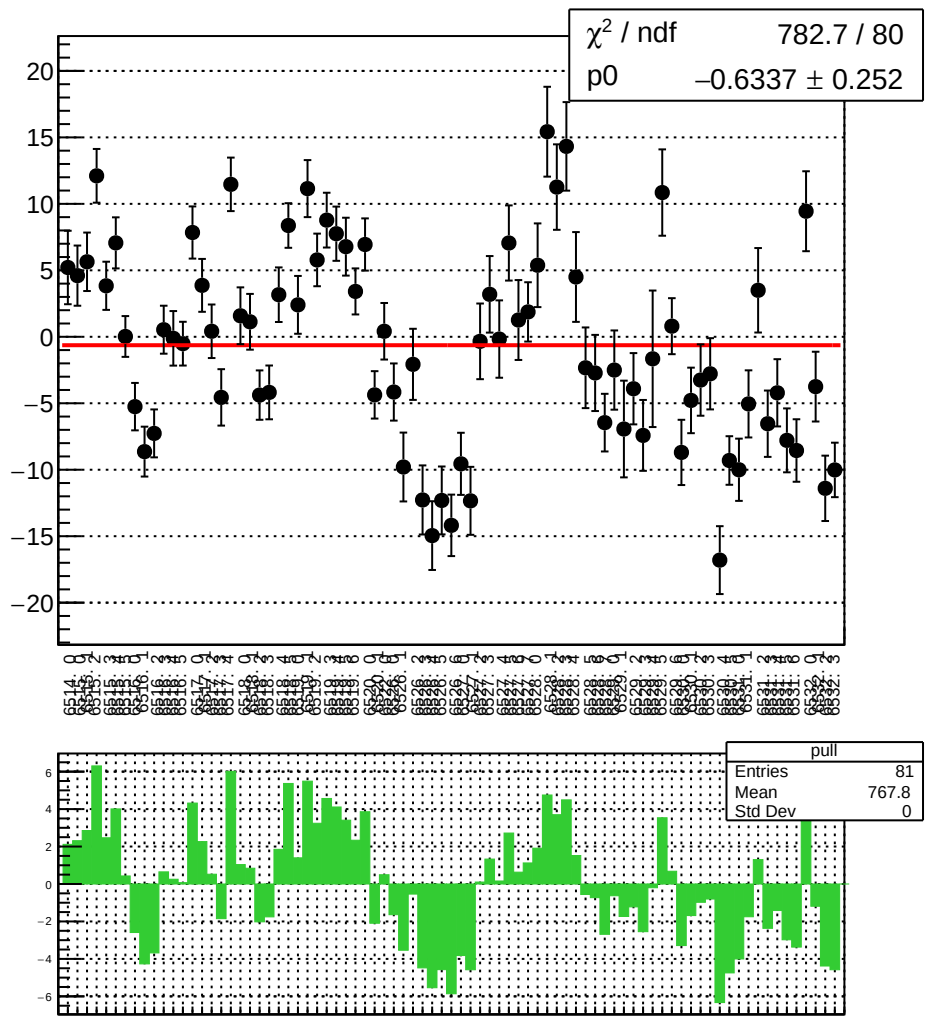

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 84.86 / 80
p0 −0.06778 ± 0.00279
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 81
Mean −41.16
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 81
Mean −0.08871
Std Dev 1.02
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

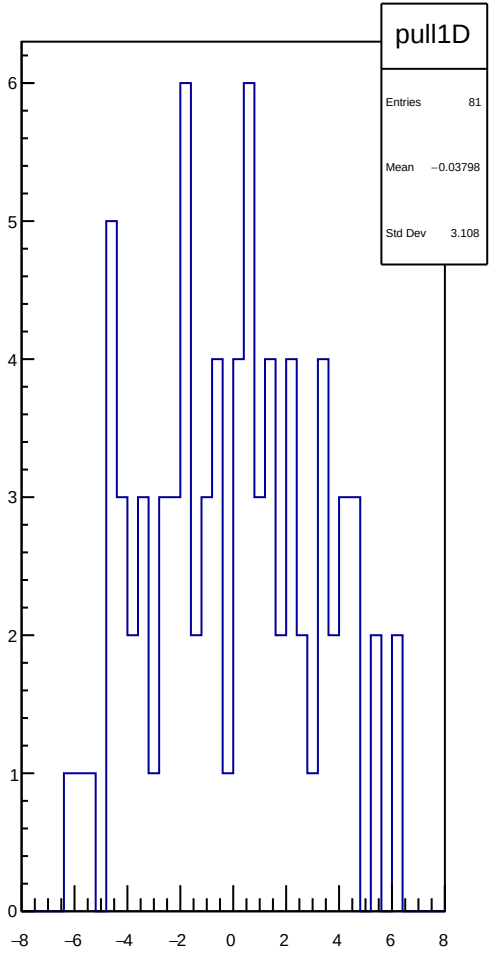

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 2686 / 80
p0 31.03 ± 0.2015
pull
Entries 81
Mean −47.09
Std Dev 0

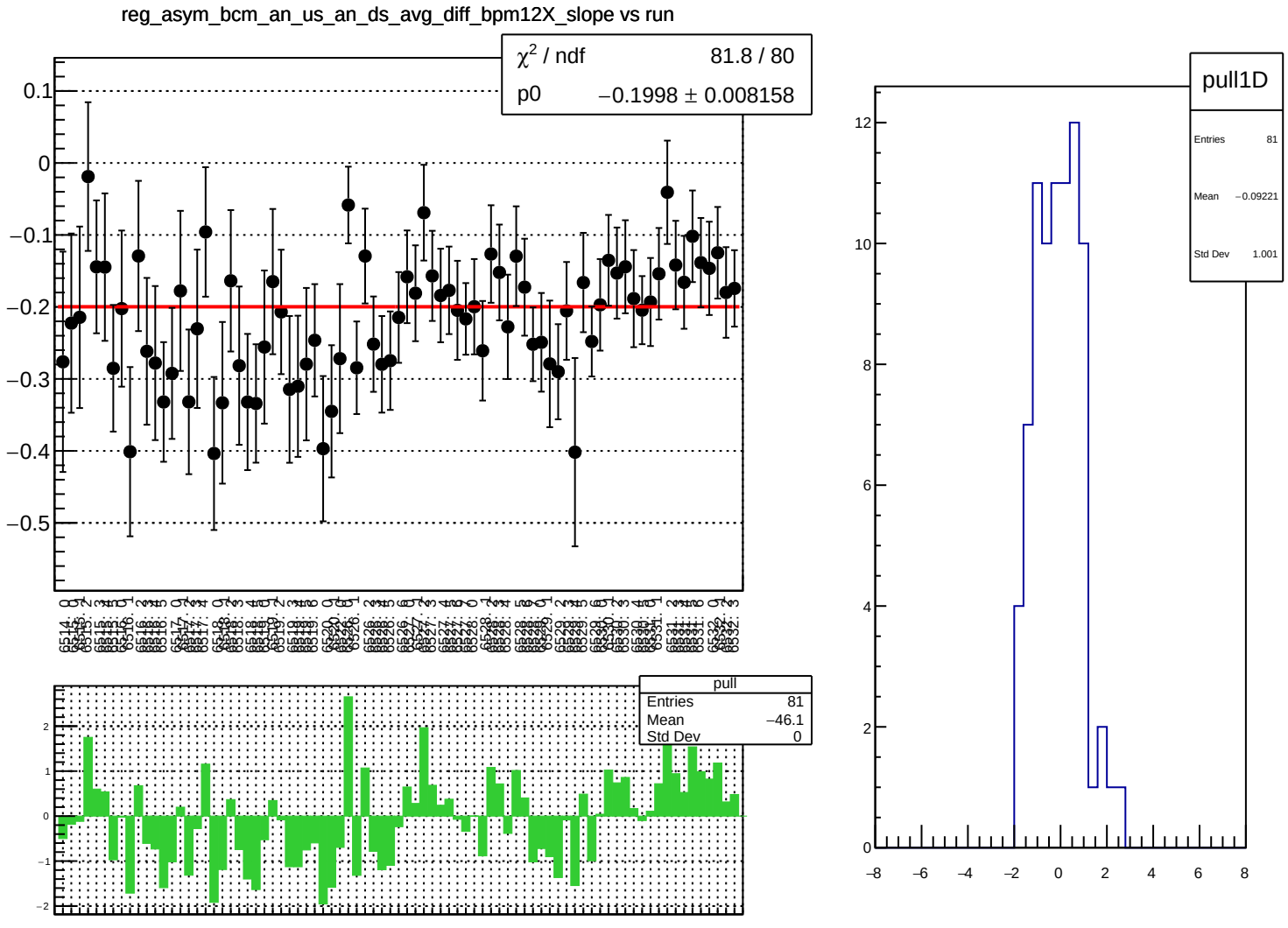

pull1D
Entries 81
Mean −0.2182
Std Dev 4.562

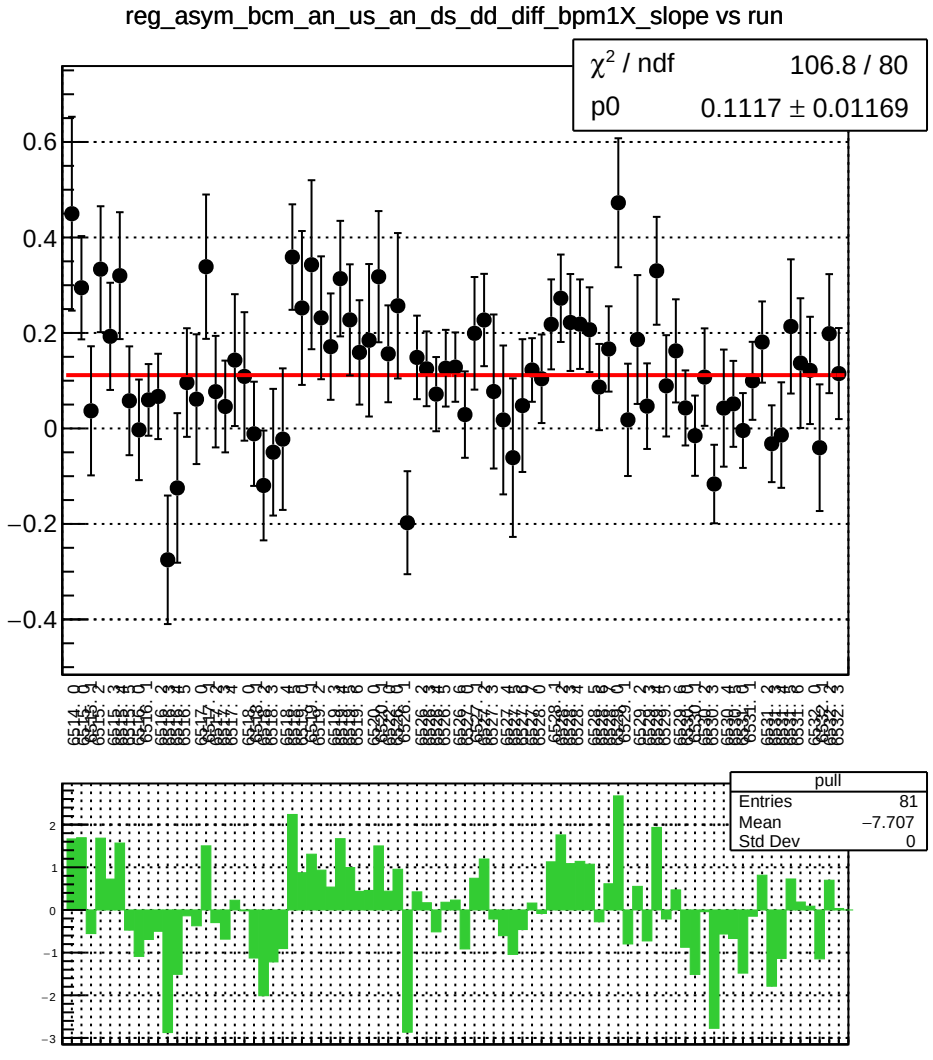

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 812.5 / 80
p0 −0.5513 ± 0.2287
pull
Entries 81
Mean 183.3
Std Dev 0
pull1D
Entries 81
Mean 0.2026
Std Dev 3.161

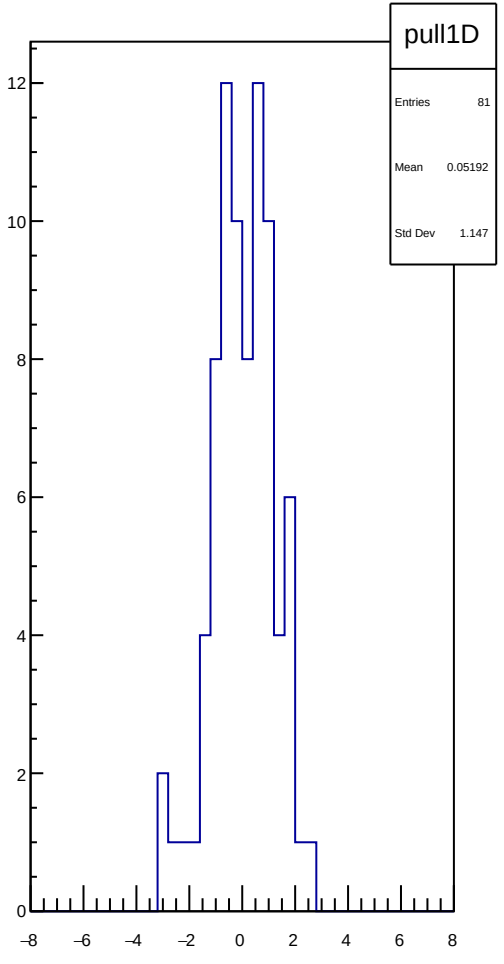

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 2633 / 80
p0 −32.22 ± 0.2107
pull
Entries 81
Mean −49.57
Std Dev 0
pull1D
Entries 81
Mean 0.2452
Std Dev 4.505

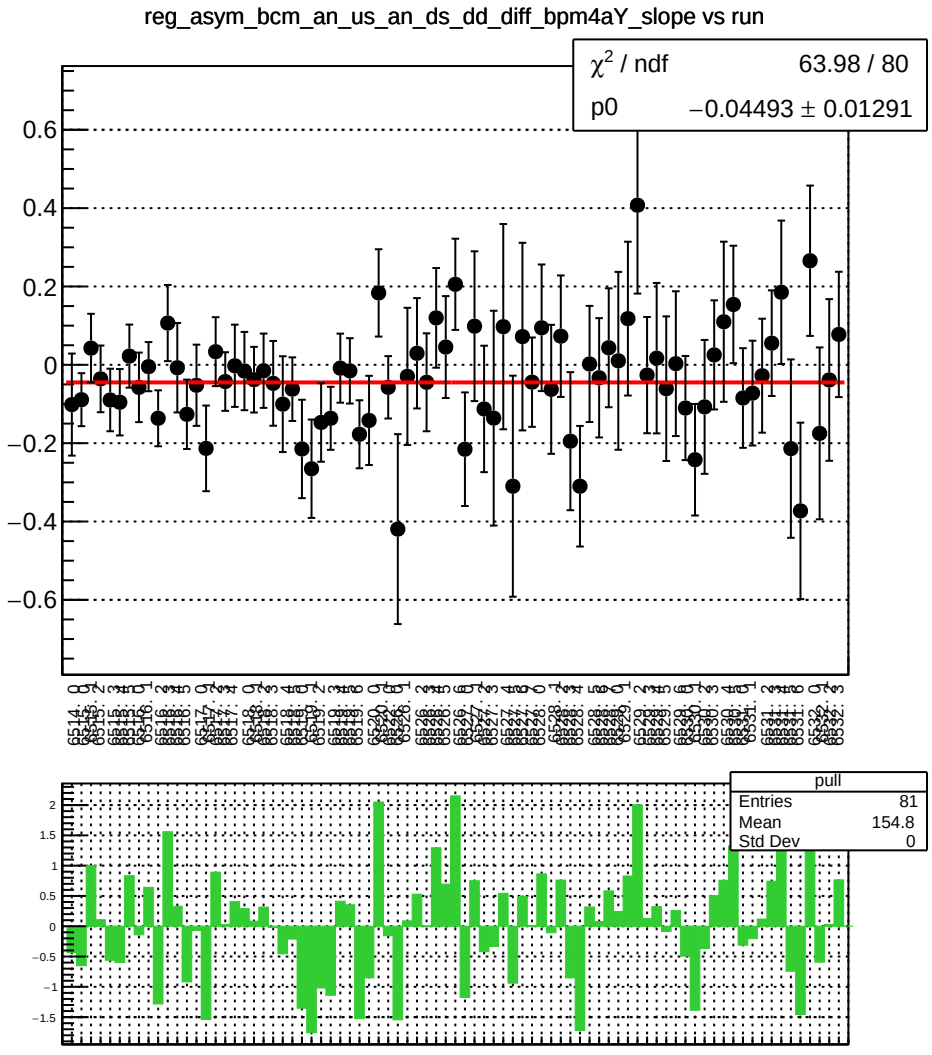

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 782.7 / 80
p0 −0.6337 ± 0.252
pull
Entries 81
Mean 767.8
Std Dev 0

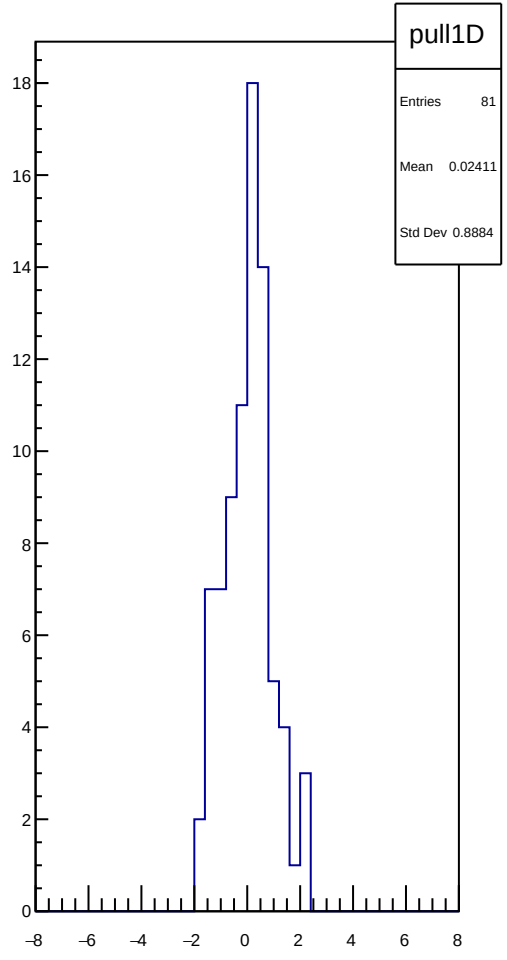

pull1D
Entries 81
Mean −0.03798
Std Dev 3.108

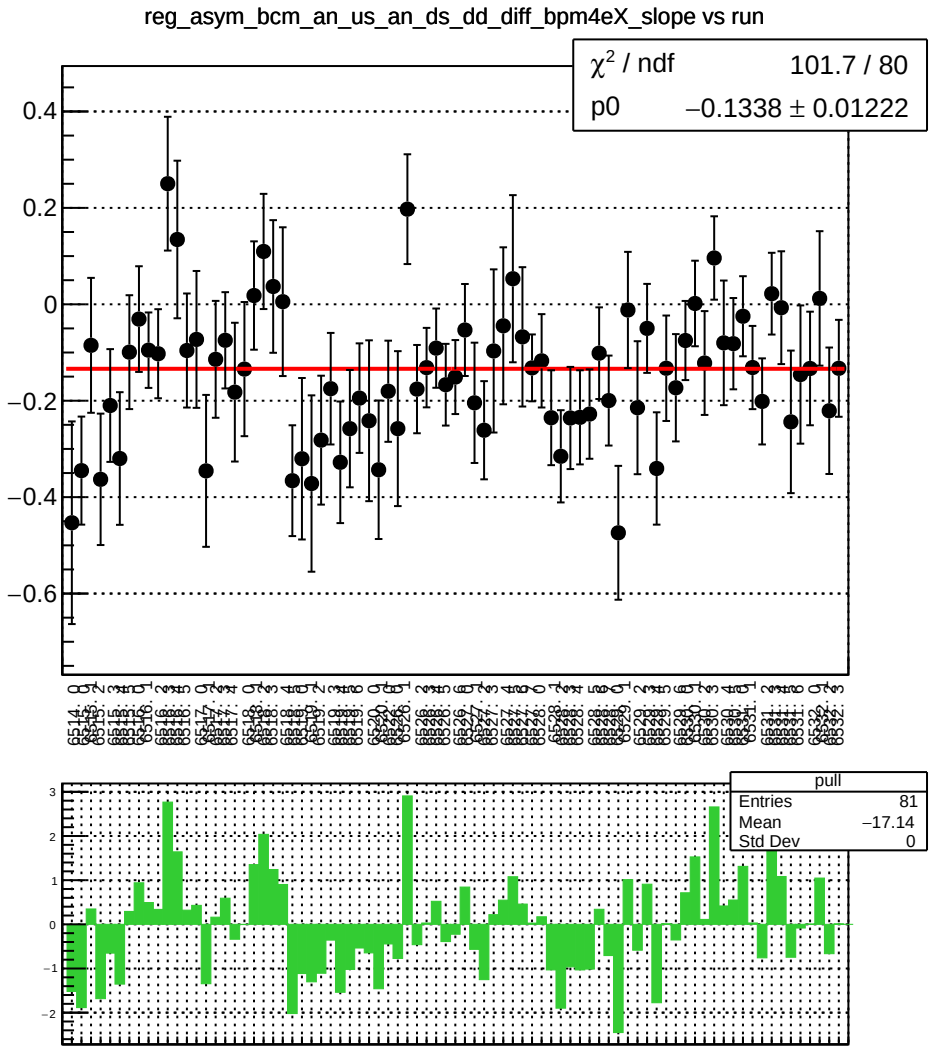

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 81.8 / 80
p0 −0.1998 ± 0.008158
pull
Entries 81
Mean −46.1
Std Dev 0
pull1D
Entries 81
Mean −0.09221
Std Dev 1.001

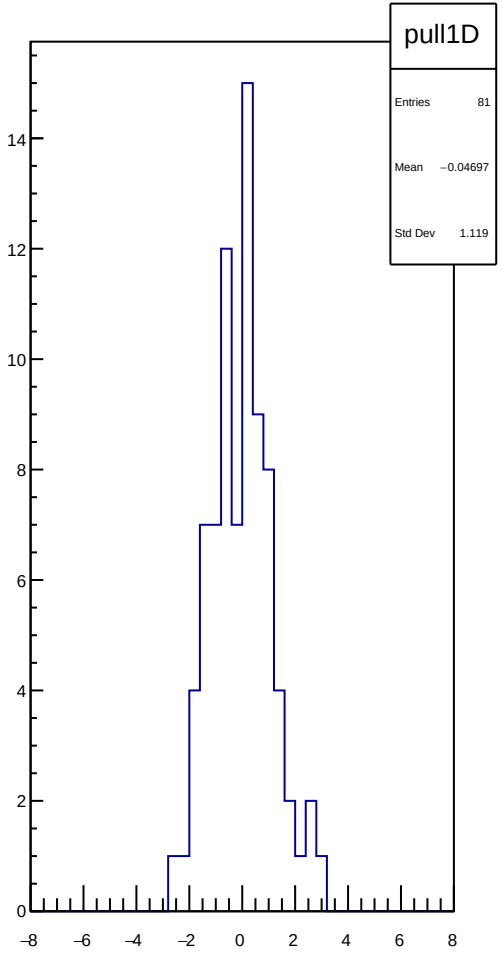

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 106.8 / 80
p0 0.1117 ± 0.01169
pull
Entries 81
Mean −7.707
Std Dev 0

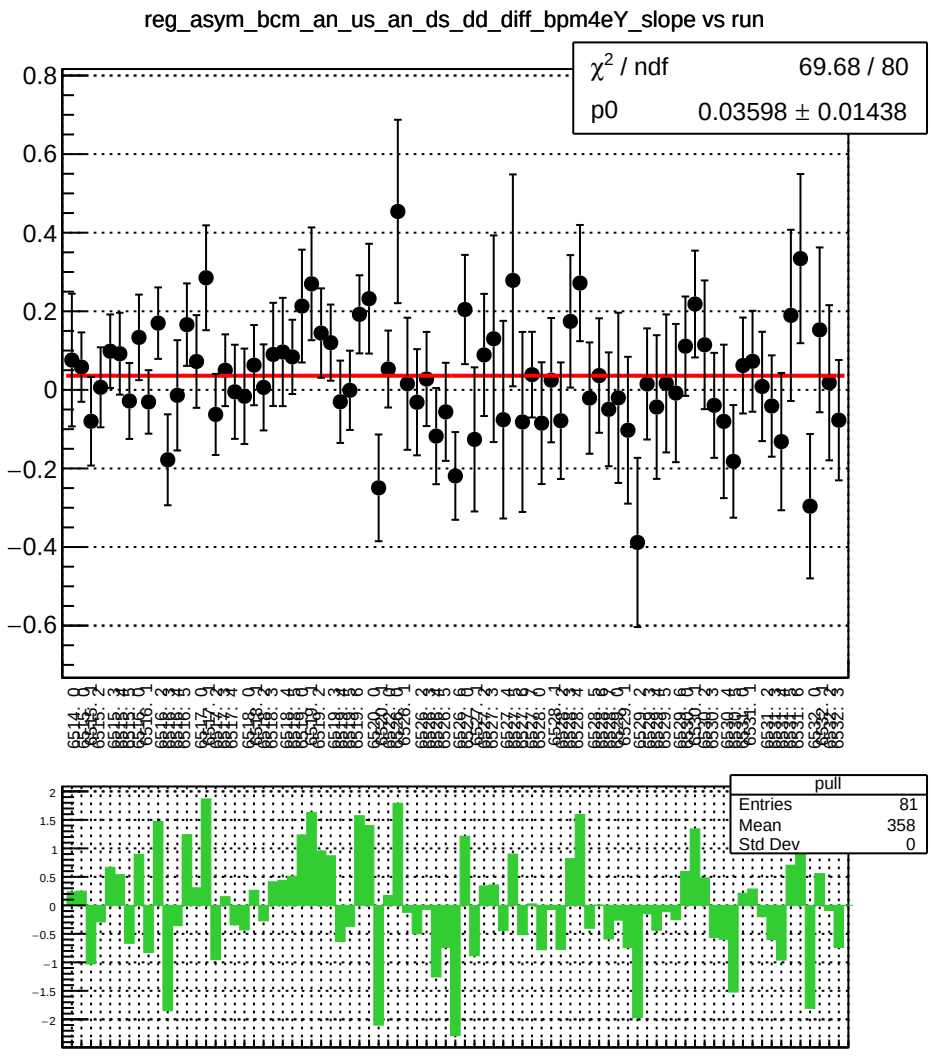

pull1D
Entries 81
Mean 0.05192
Std Dev 1.147

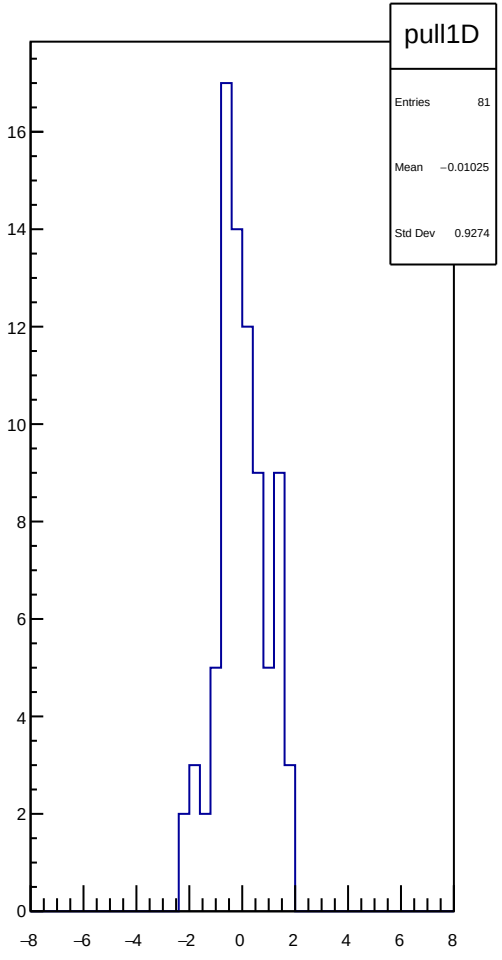

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 63.98 / 80
p0 −0.04493 ± 0.01291
pull
Entries 81
Mean 154.8
Std Dev 0

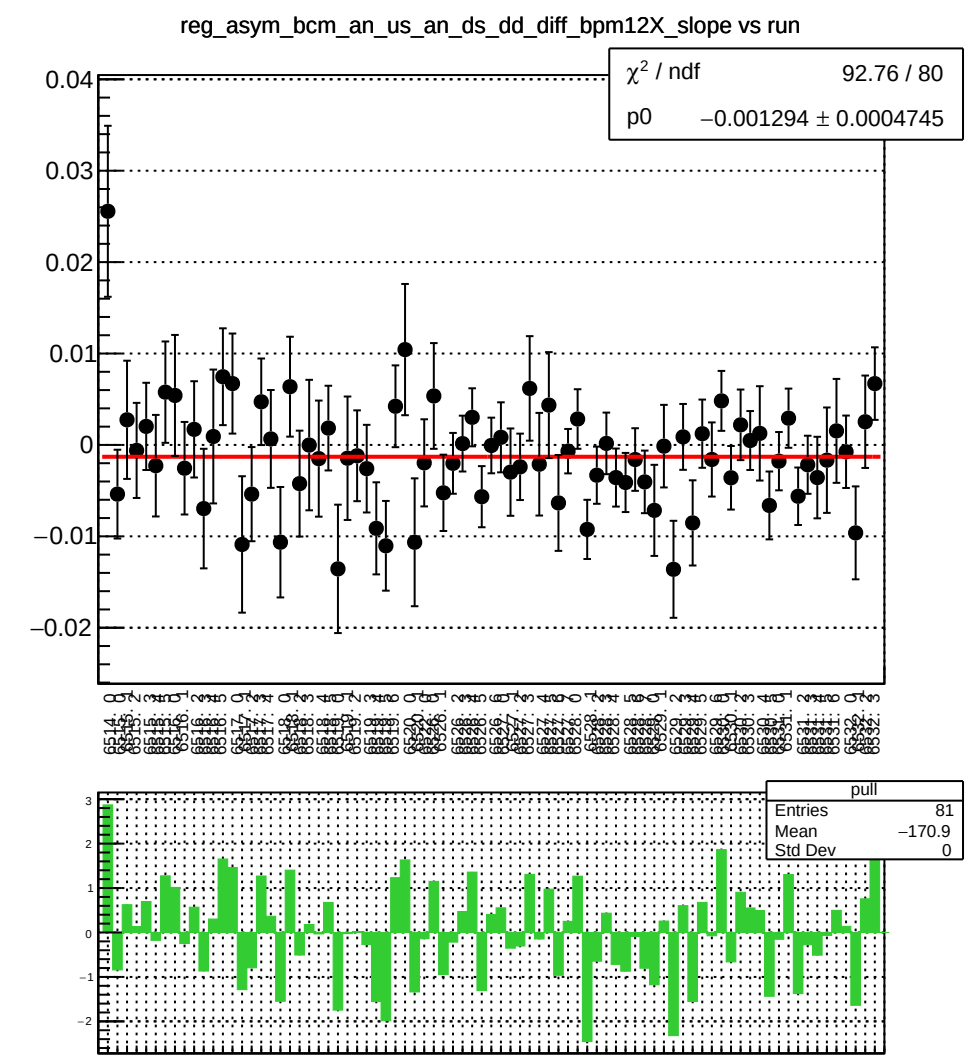

pull1D
Entries 81
Mean 0.02411
Std Dev 0.8884

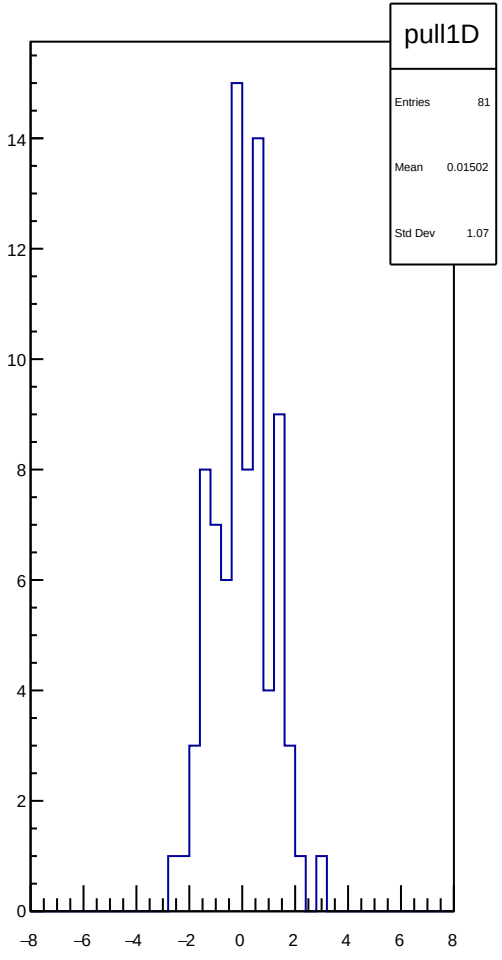

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 101.7 / 80
p0 −0.1338 ± 0.01222
pull
Entries 81
Mean −17.14
Std Dev 0

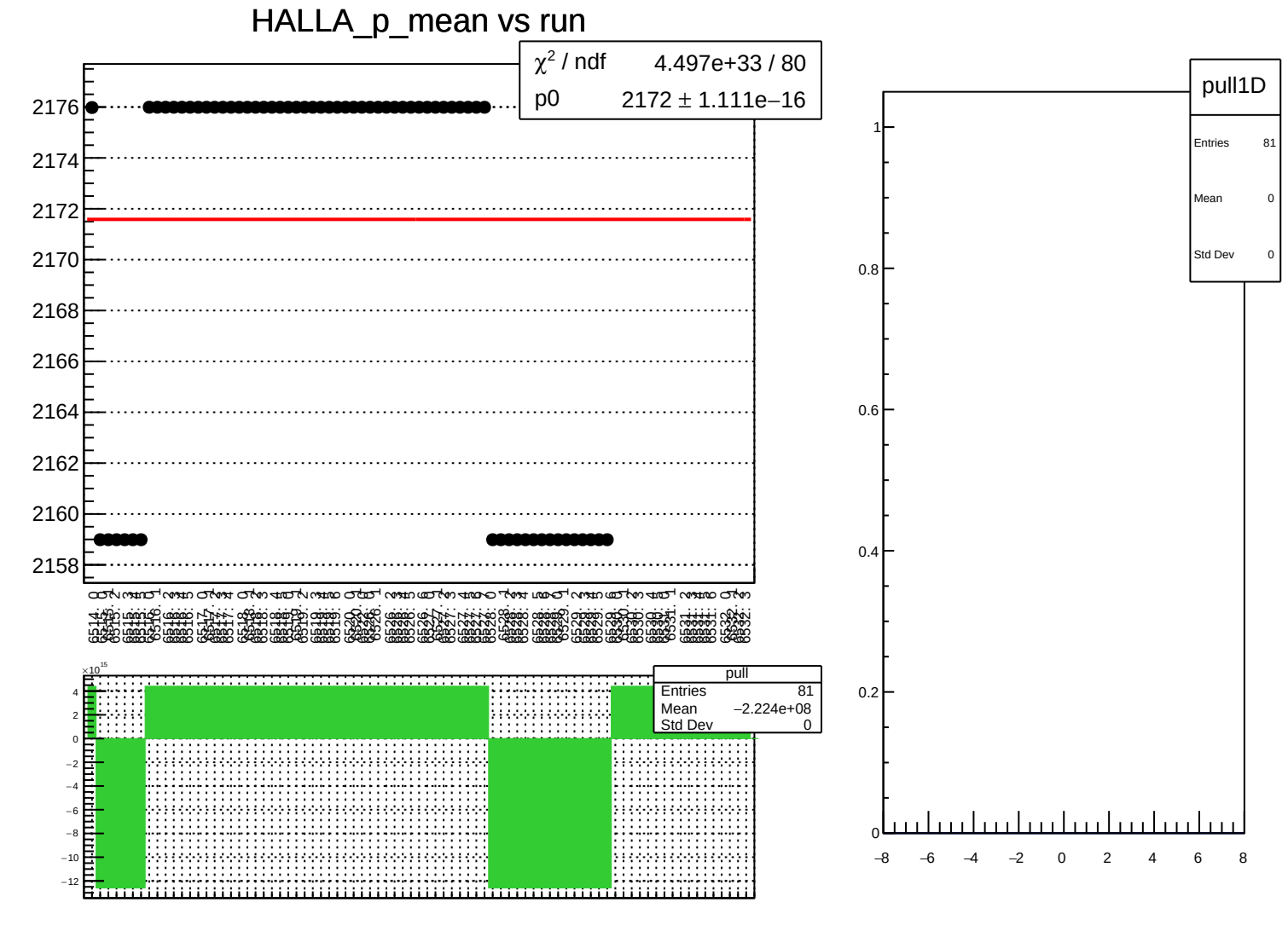

pull1D
Entries 81
Mean −0.04697
Std Dev 1.119

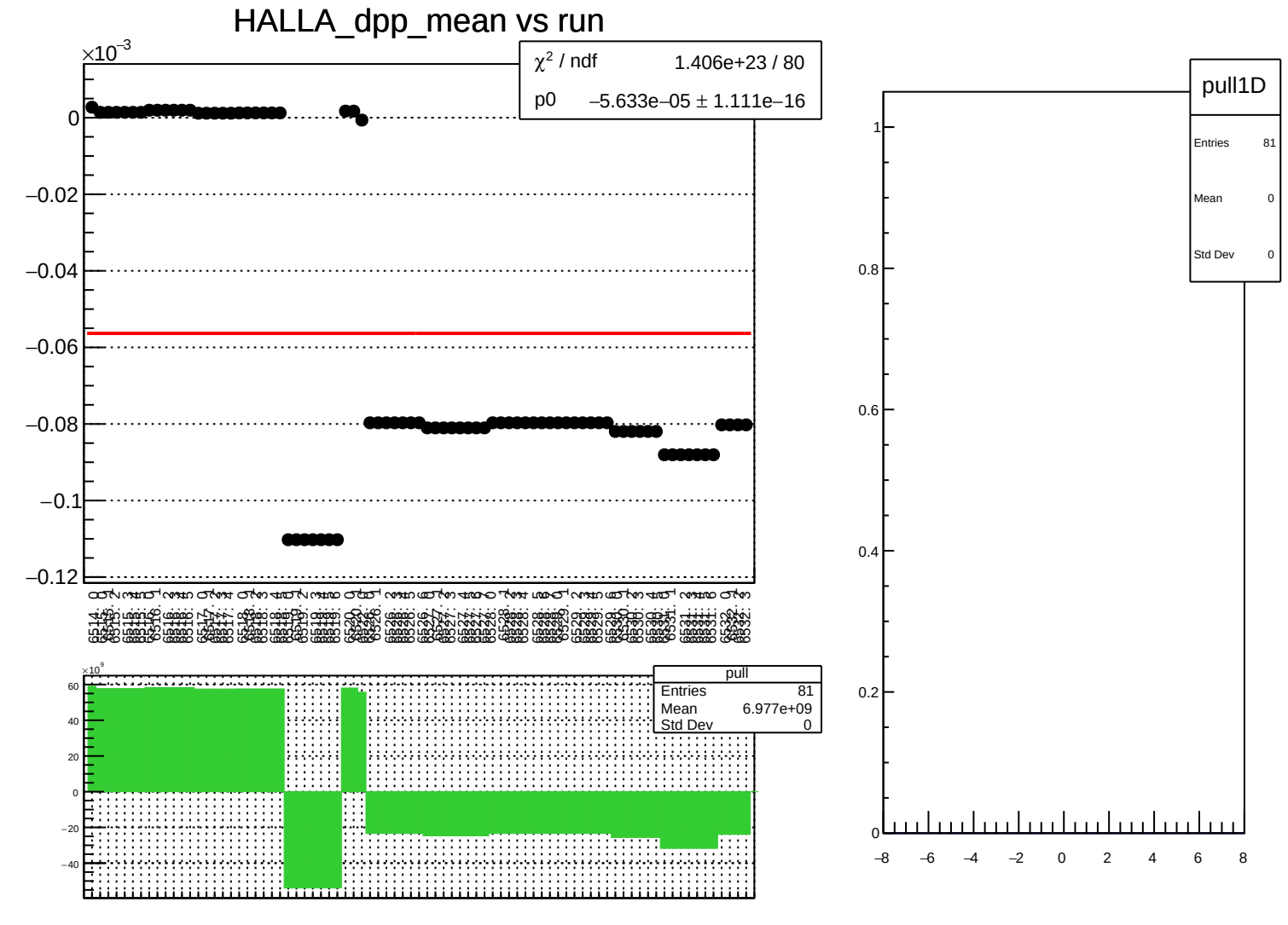

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 69.68 / 80
p0 0.03598 ± 0.01438
pull
Entries 81
Mean 358
Std Dev 0


pull1D
Entries 81
Mean −0.01025
Std Dev 0.9274

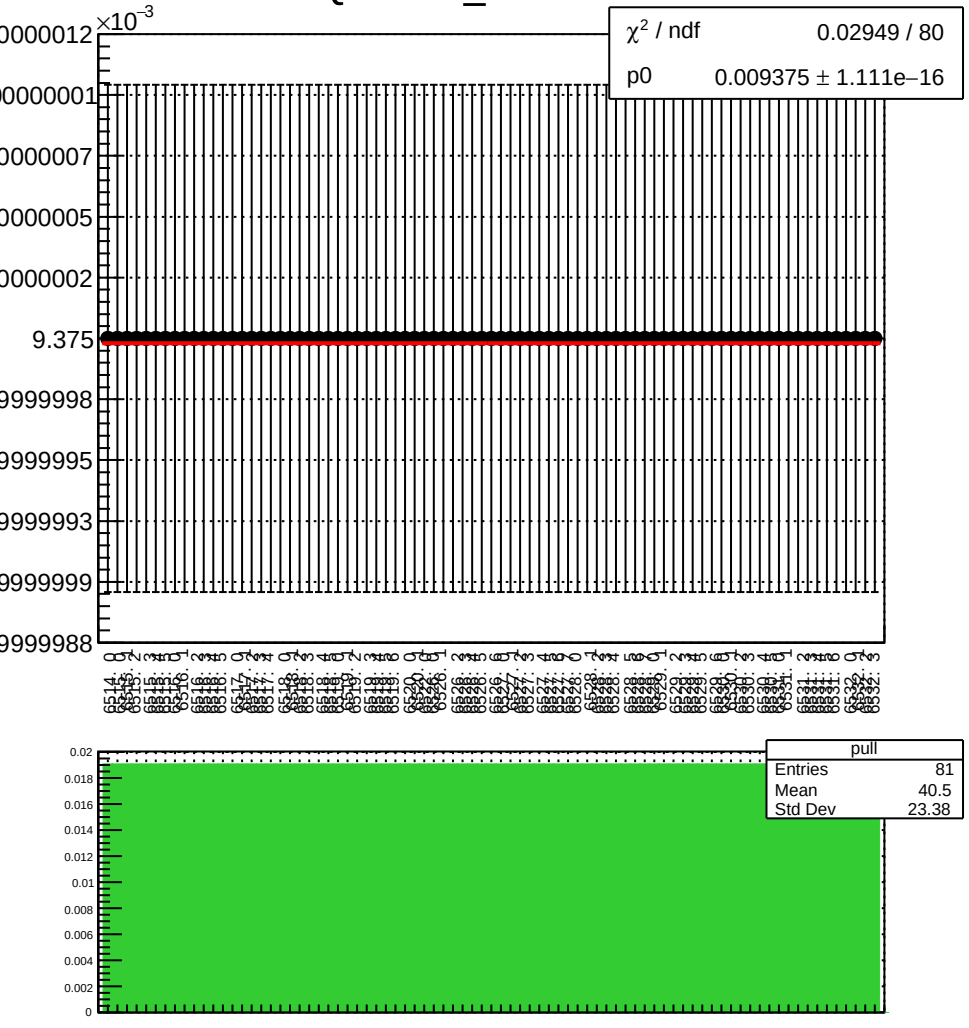

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 92.76 / 80
p0 −0.001294 ± 0.0004745
pull
Entries 81
Mean −170.9
Std Dev 0

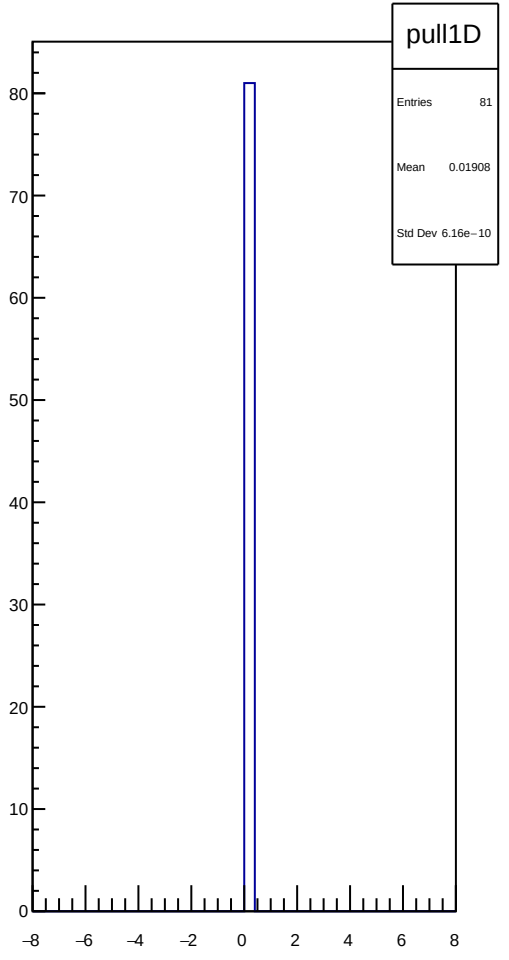

pull1D
Entries 81
Mean 0.01502
Std Dev 1.07

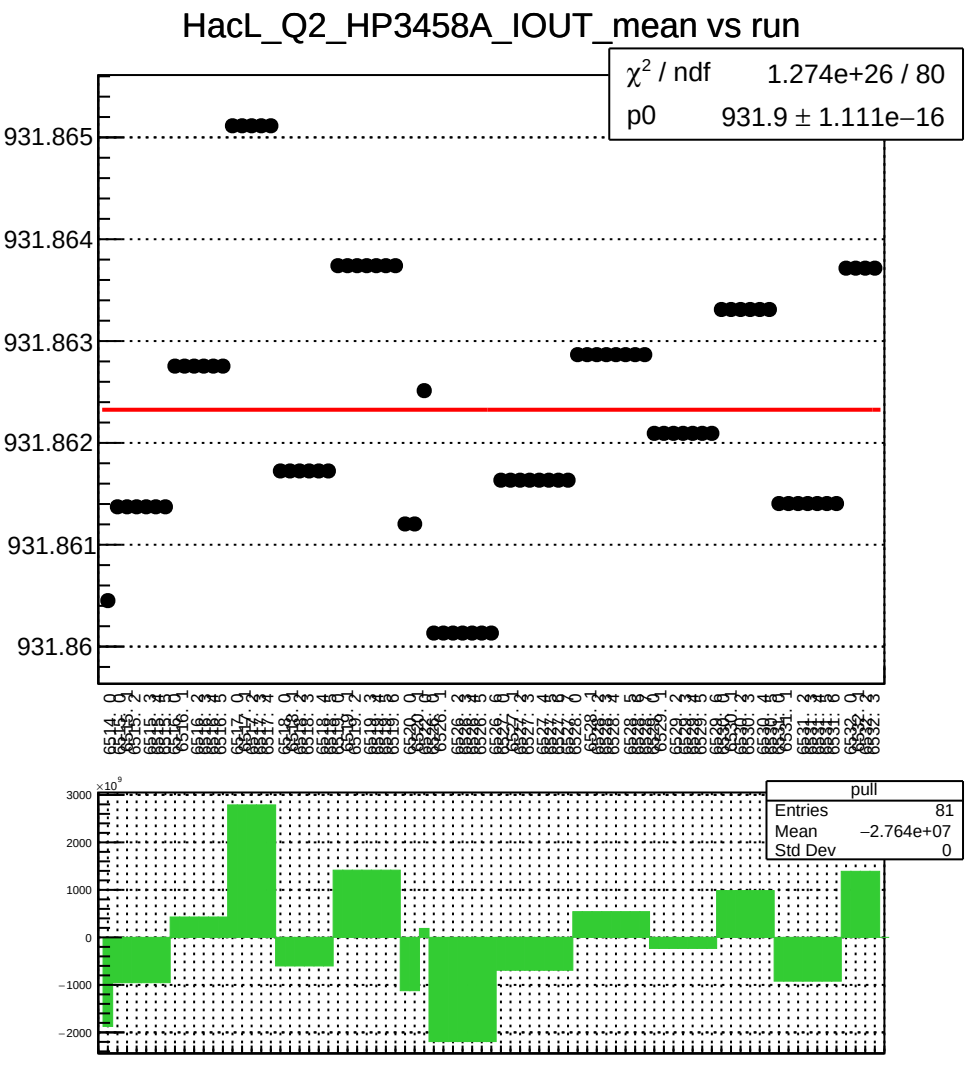

HALLA_p_mean vs run
χ² / ndf 4.497e+33 / 80
p0 2172 ± 1.111e−16
2176
2174
2172
2170
2168
2166
2164
2162
2160
2158
pull
Entries 81
Mean −2.224e+08
Std Dev 0
×10¹⁵
4
2
0
−2
−4
−6
−8
−10
−12
pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

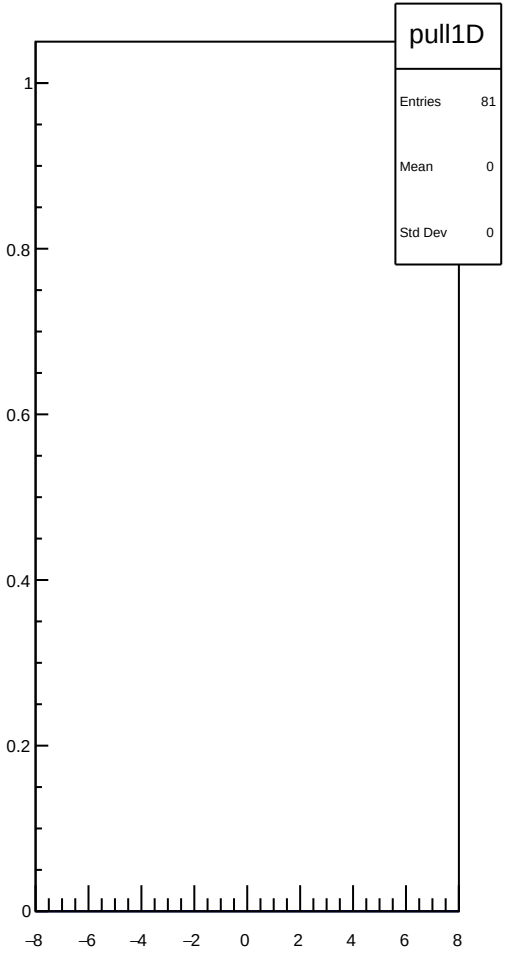

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 1.406e+23 / 80
p0 −5.633e−05 ± 1.111e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
×10⁹
60
40
20
0
−20
−40
pull
Entries 81
Mean 6.977e+09
Std Dev 0
pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

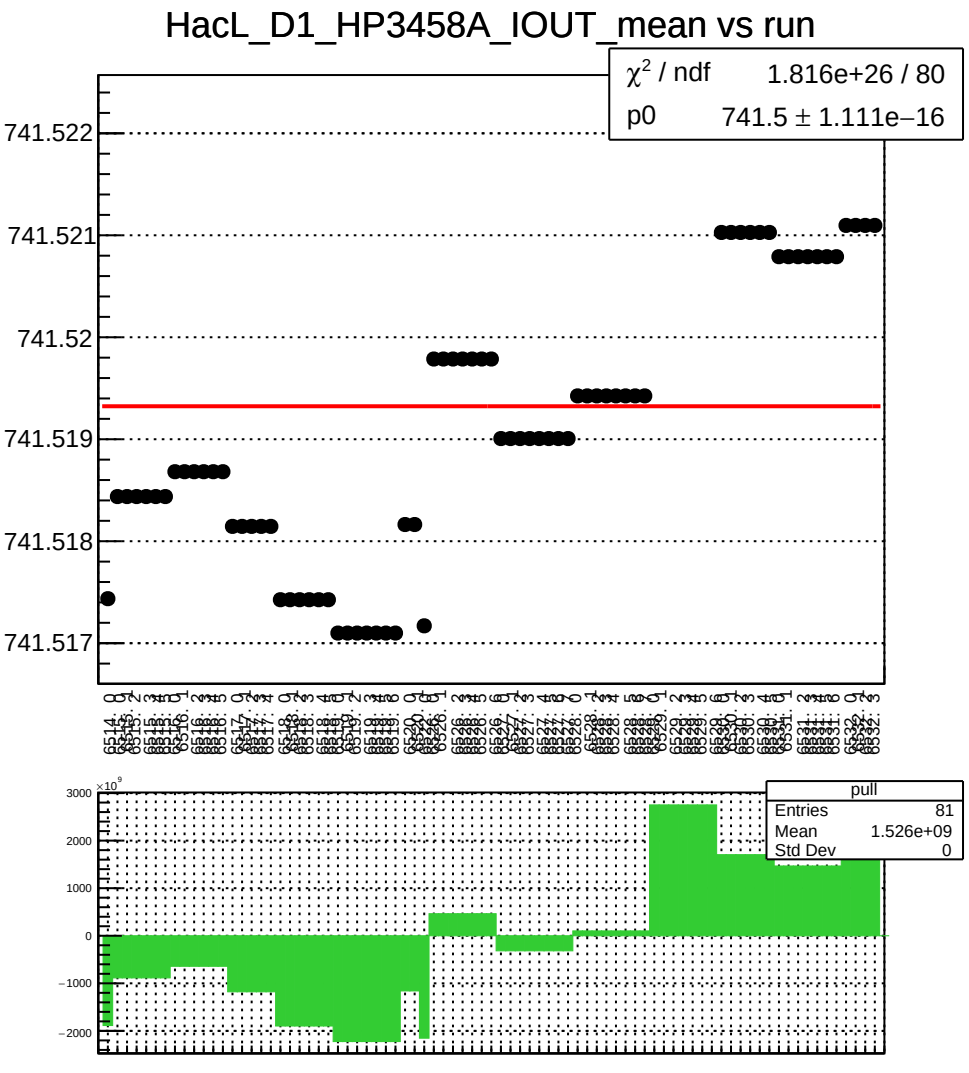
MQ171LM_mean vs run

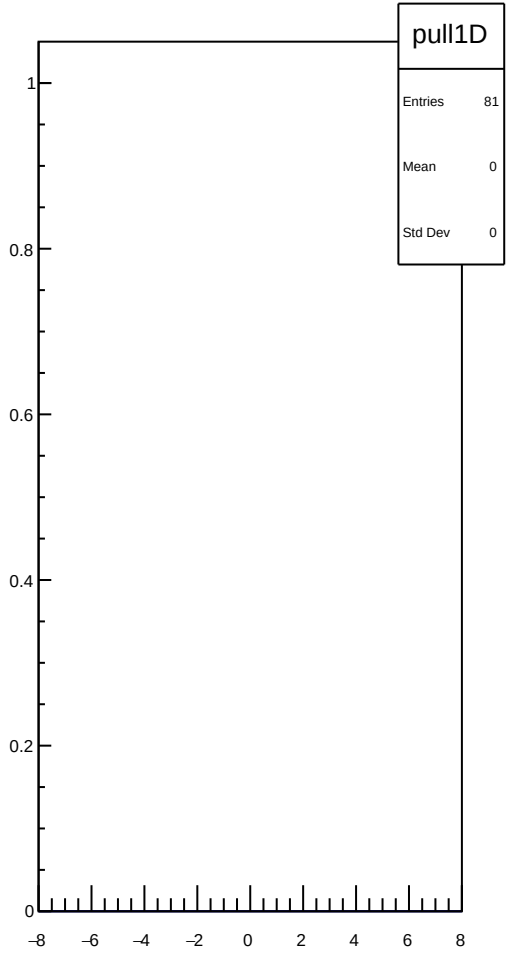


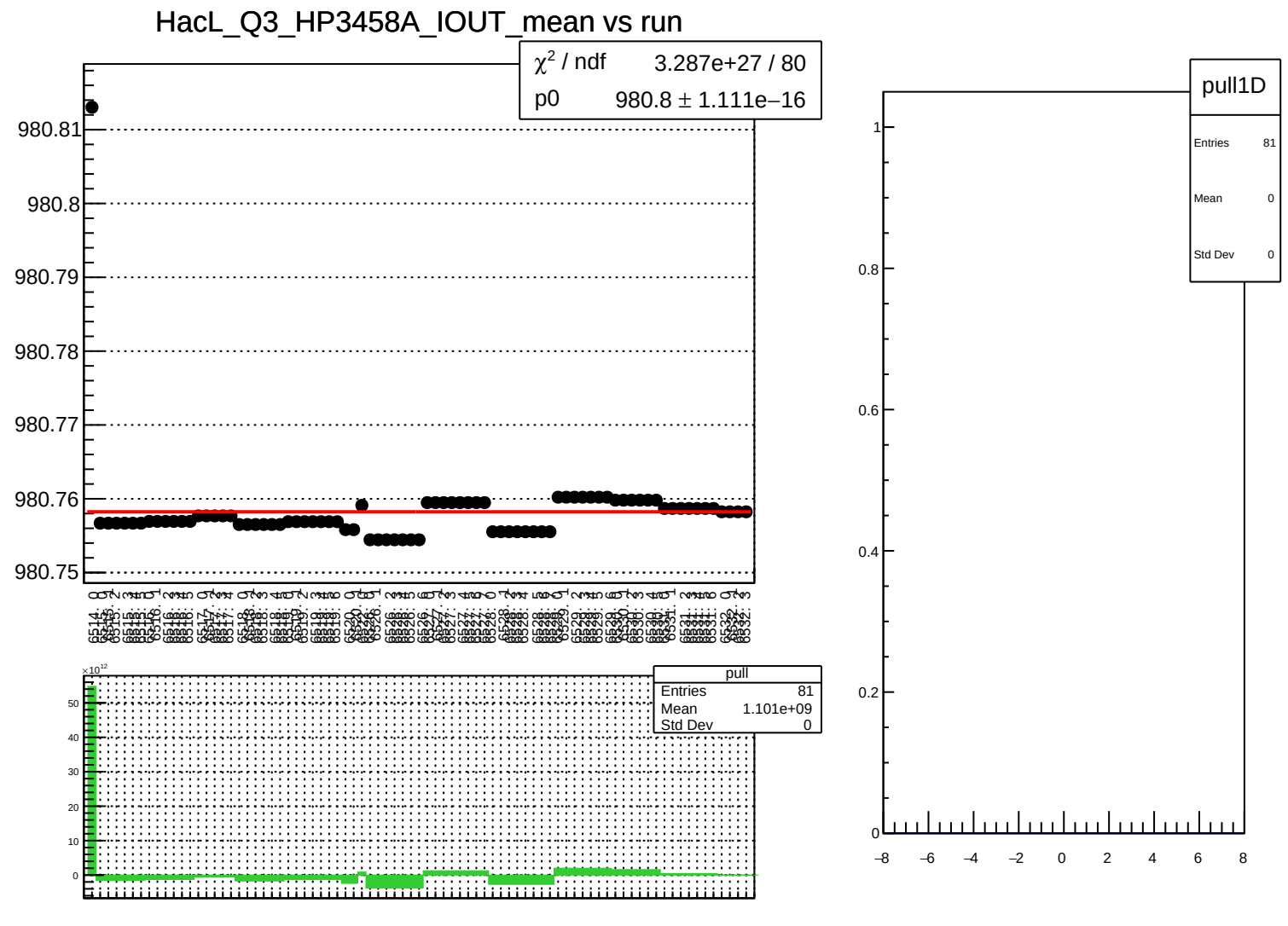


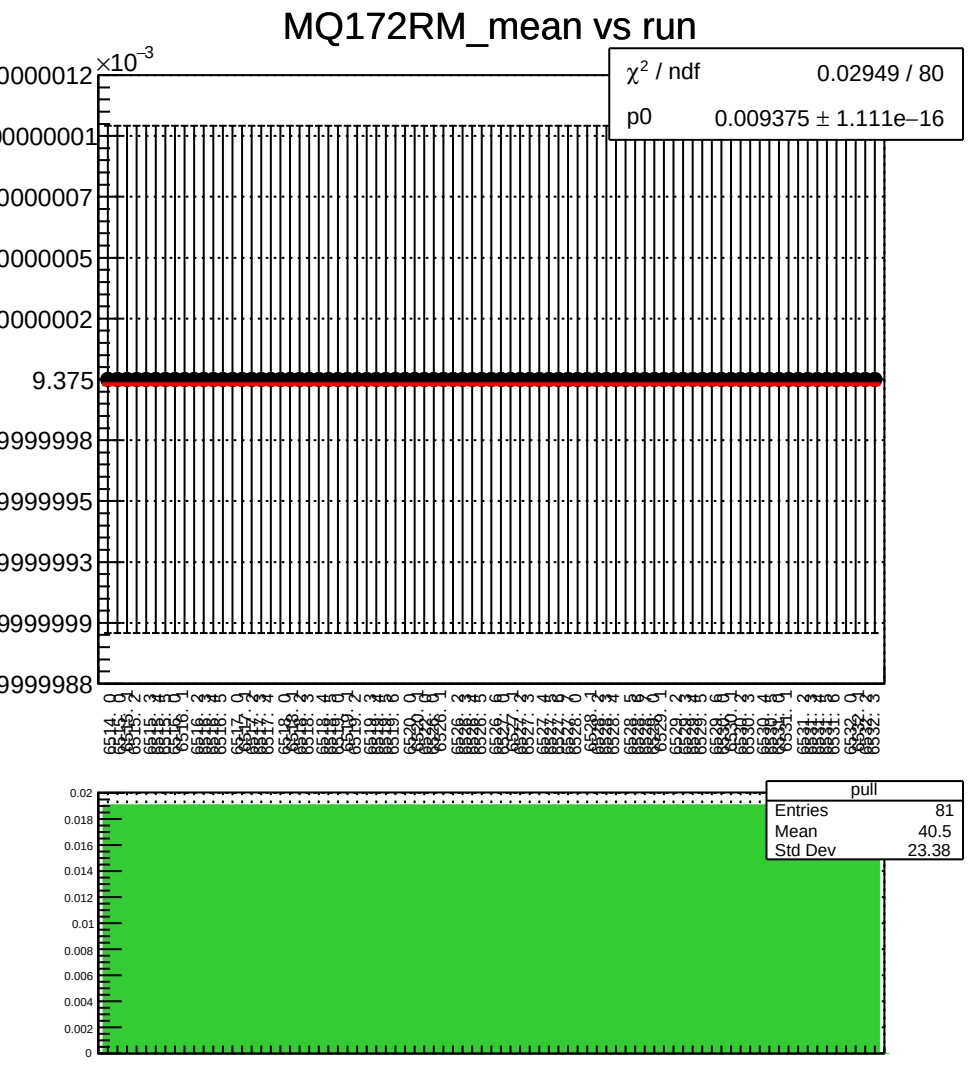

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 1.274e+26 / 80
p0 931.9 ± 1.111e−16
931.865
931.864
931.863
931.862
931.861
931.86
pull
Entries 81
Mean −2.764e+07
Std Dev 0
×10⁹
3000
2000
1000
0
−1000
−2000

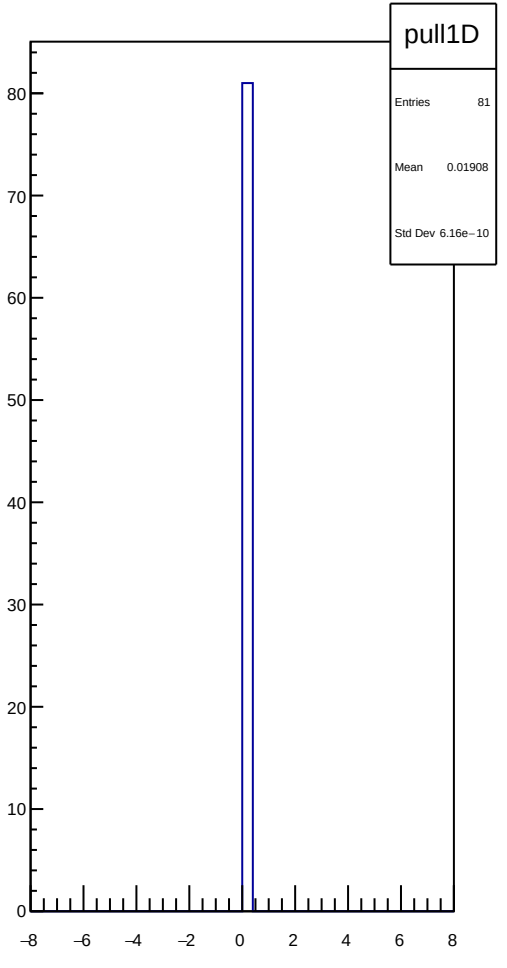

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

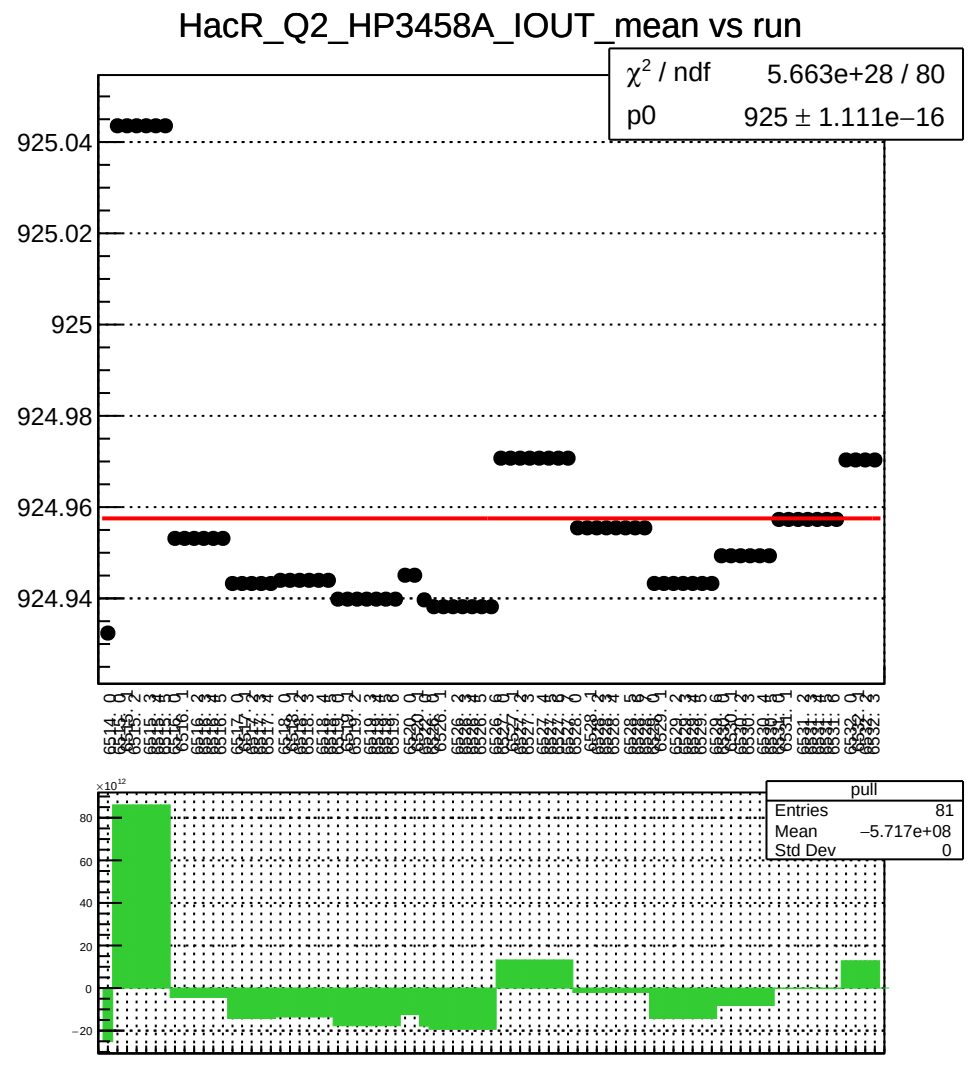

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.816e+26 / 80
p0 741.5 ± 1.111e−16
741.522
741.521
741.52
741.519
741.518
741.517
pull
Entries 81
Mean 1.526e+09
Std Dev 0
×10⁹
3000
2000
1000
0
−1000
−2000

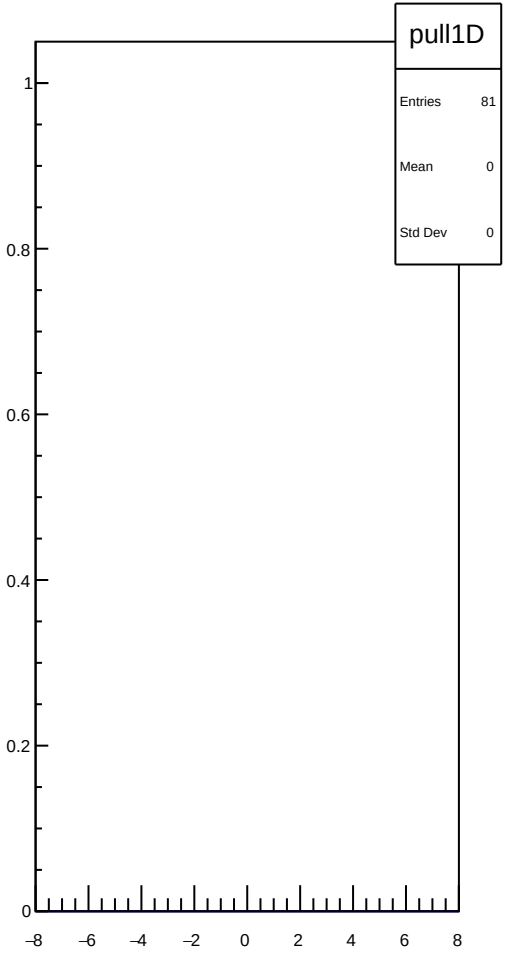

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

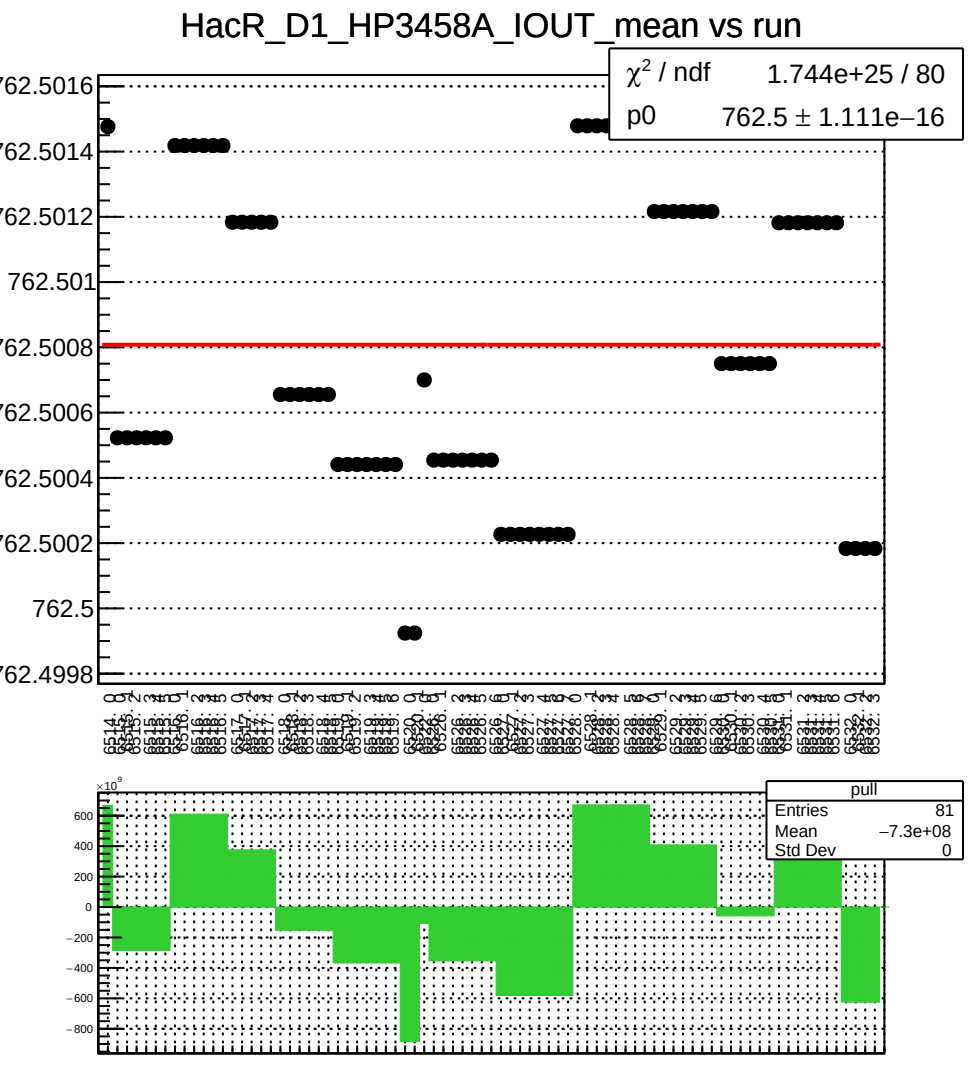

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 3.287e+27 / 80
p0 980.8 ± 1.111e−16
980.81
980.8
980.79
980.78
980.77
980.76
980.75
pull
Entries 81
Mean 1.101e+09
Std Dev 0
×10¹²
50
40
30
20
10
0
pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

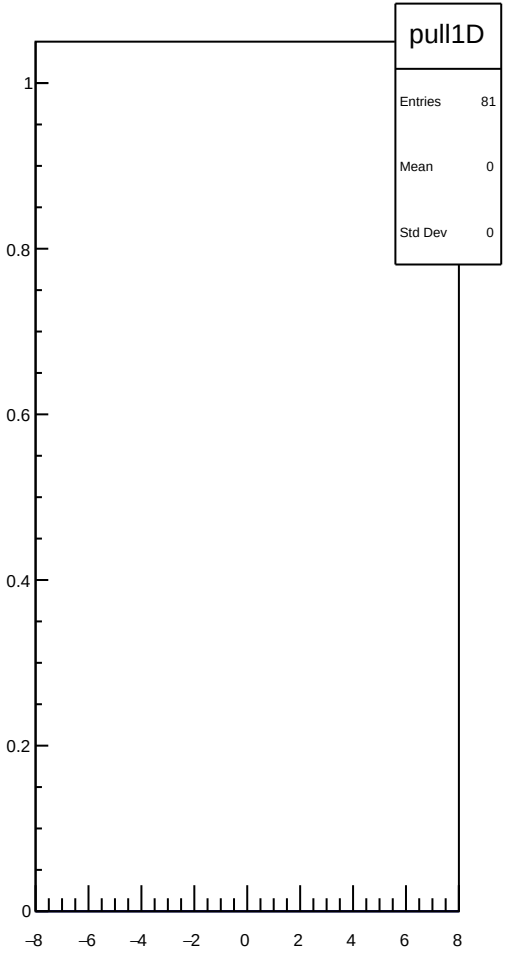

MQ172RM_mean vs run
χ² / ndf 0.02949 / 80
p0 0.009375 ± 1.111e−16
×10⁻³
pull
Entries 81
Mean 40.5
Std Dev 23.38

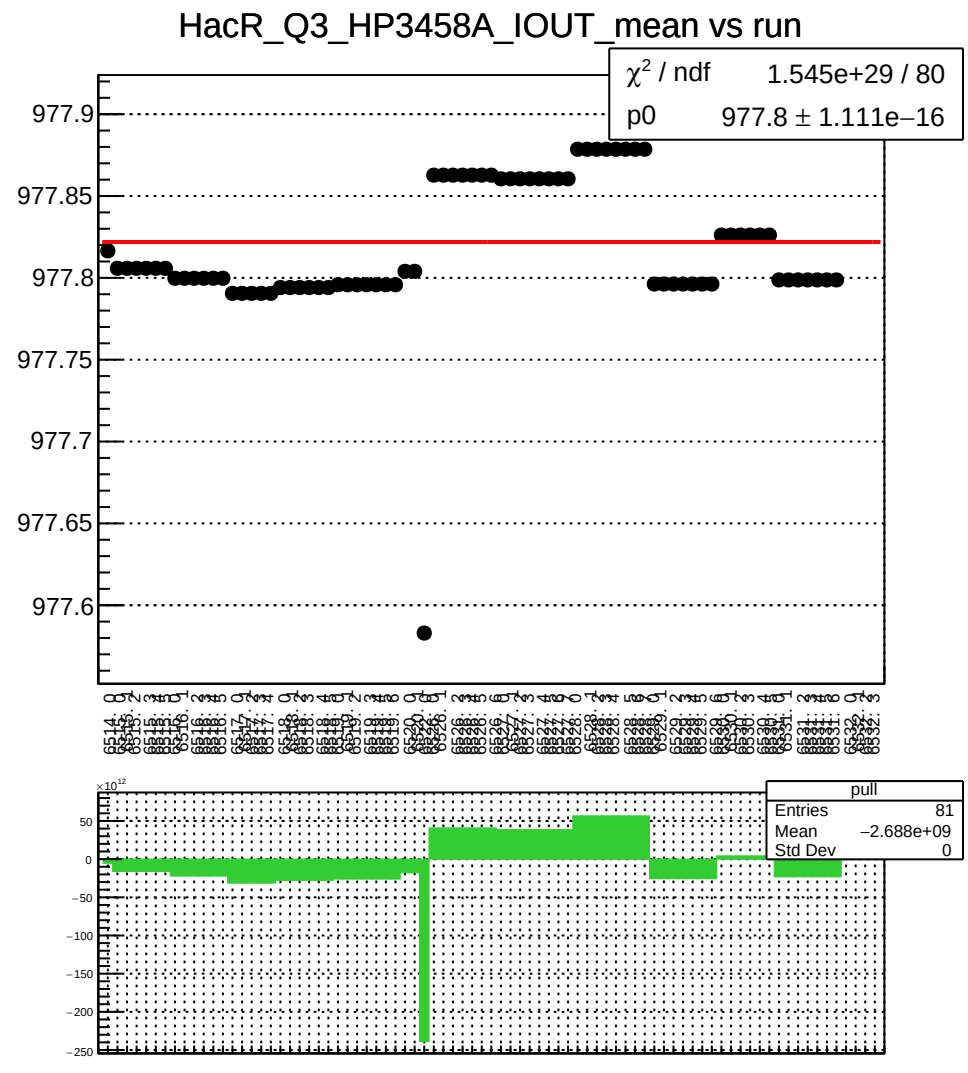

pull1D
Entries 81
Mean 0.01908
Std Dev 6.16e−10

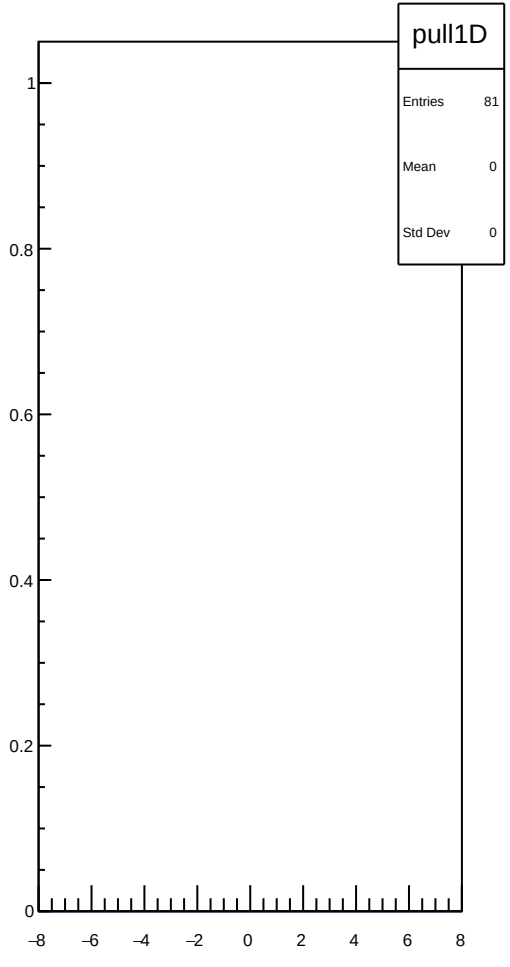

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 5.663e+28 / 80
p0 925 ± 1.111e−16
925.04
925.02
925
924.98
924.96
924.94
pull
Entries 81
Mean −5.717e+08
Std Dev 0
×10¹²
80
60
40
20
0
−20

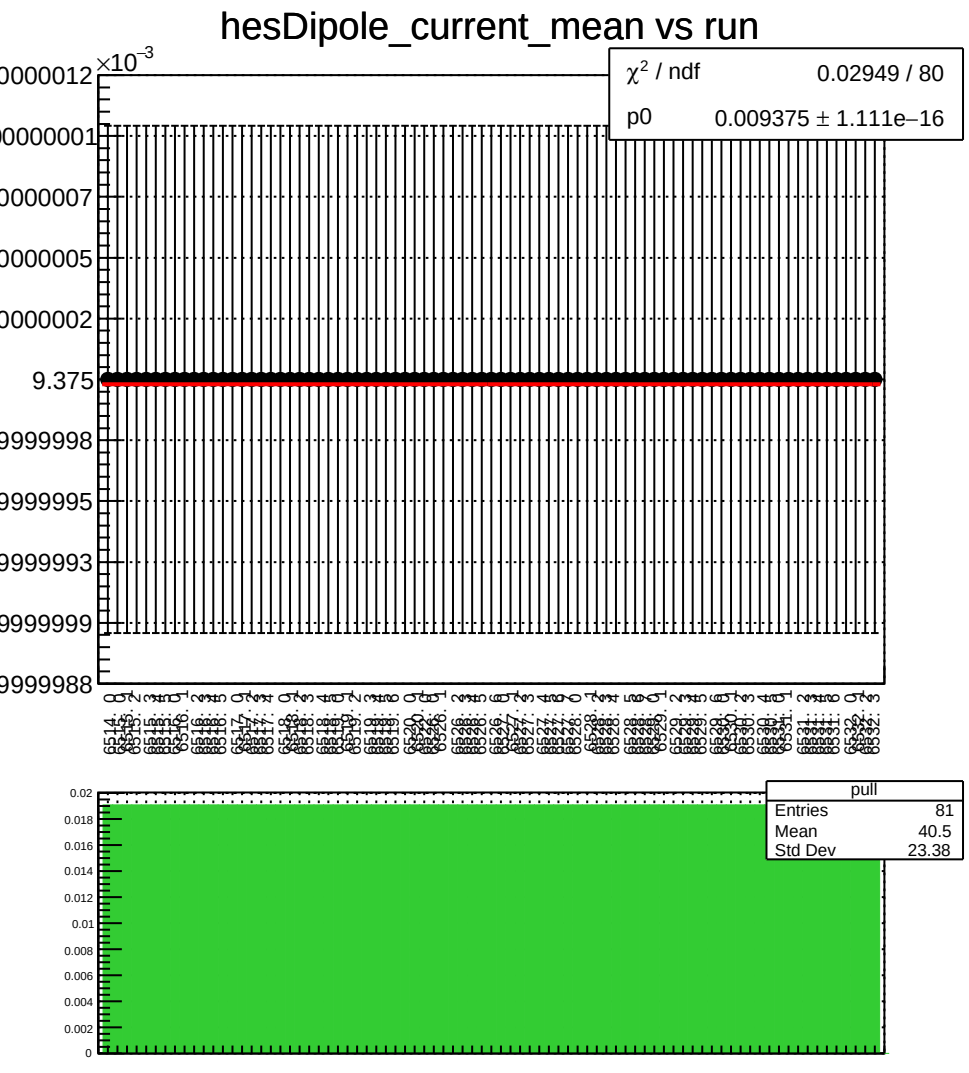

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

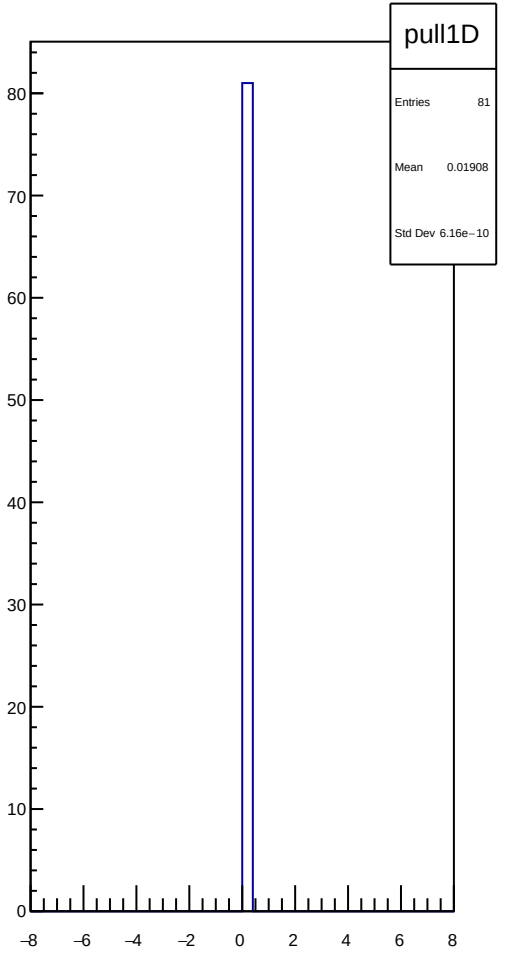

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.744e+25 / 80
p0 762.5 ± 1.111e−16
762.5016
762.5014
762.5012
762.501
762.5008
762.5006
762.5004
762.5002
762.5
762.4998
pull
Entries 81
Mean −7.3e+08
Std Dev 0
×10⁹
600
400
200
0
−200
−400
−600
−800

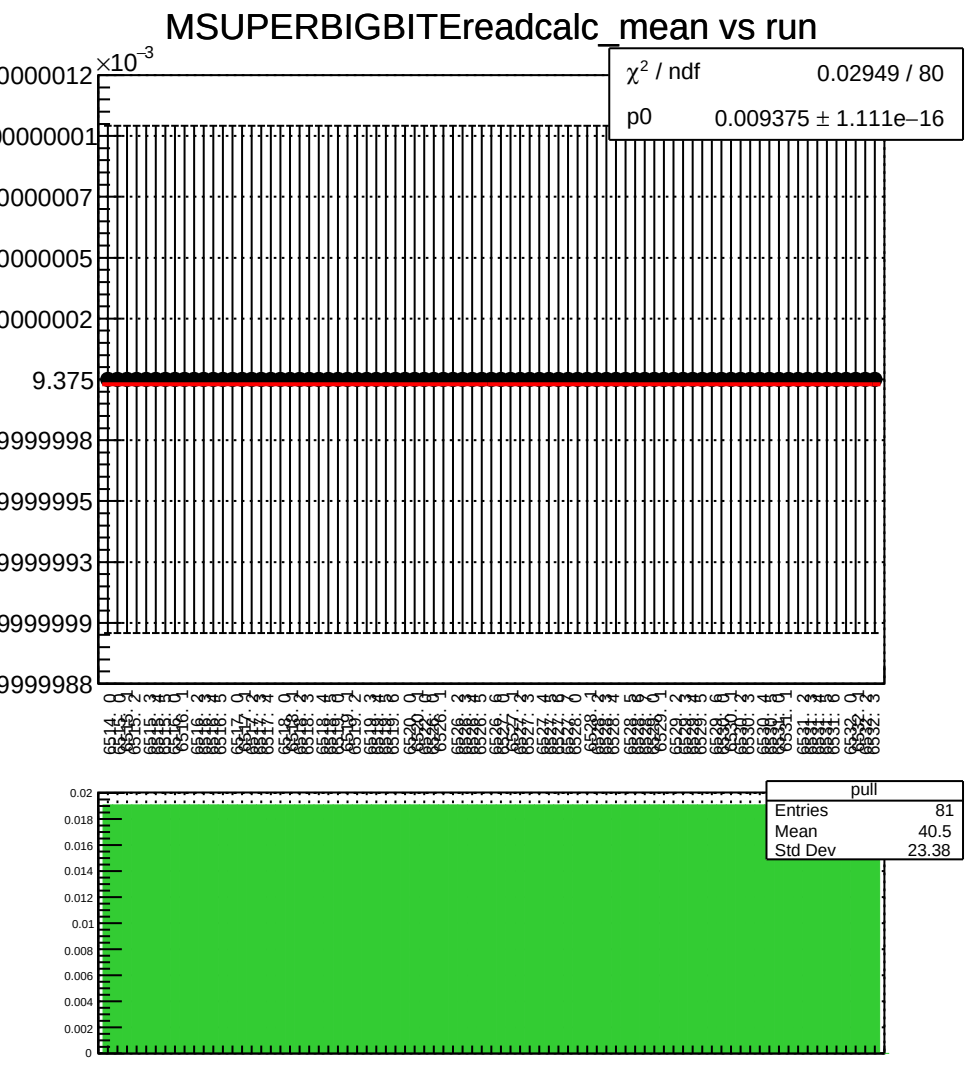

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

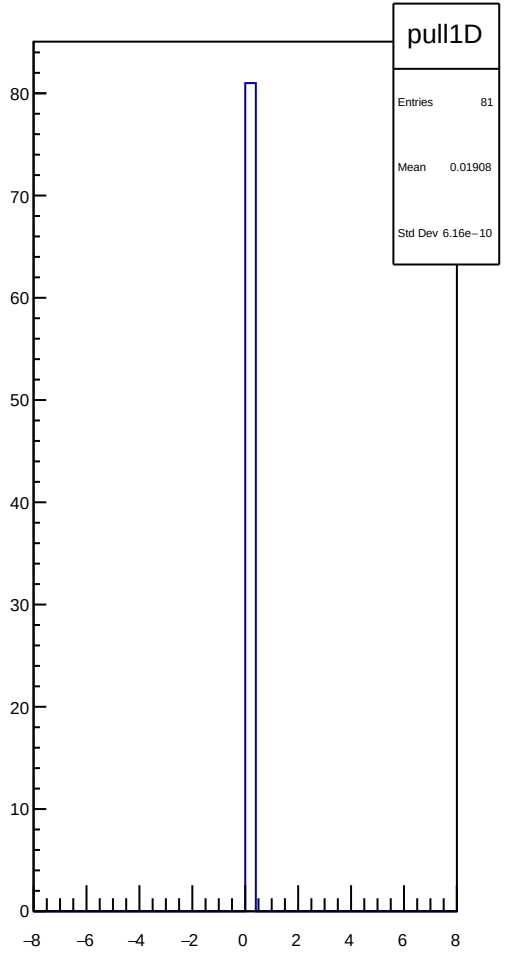

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.545e+29 / 80
p0 977.8 ± 1.111e−16
977.9
977.85
977.8
977.75
977.7
977.65
977.6
pull
Entries 81
Mean −2.688e+09
Std Dev 0
×10¹²
50
0
−50
−100
−150
−200
−250

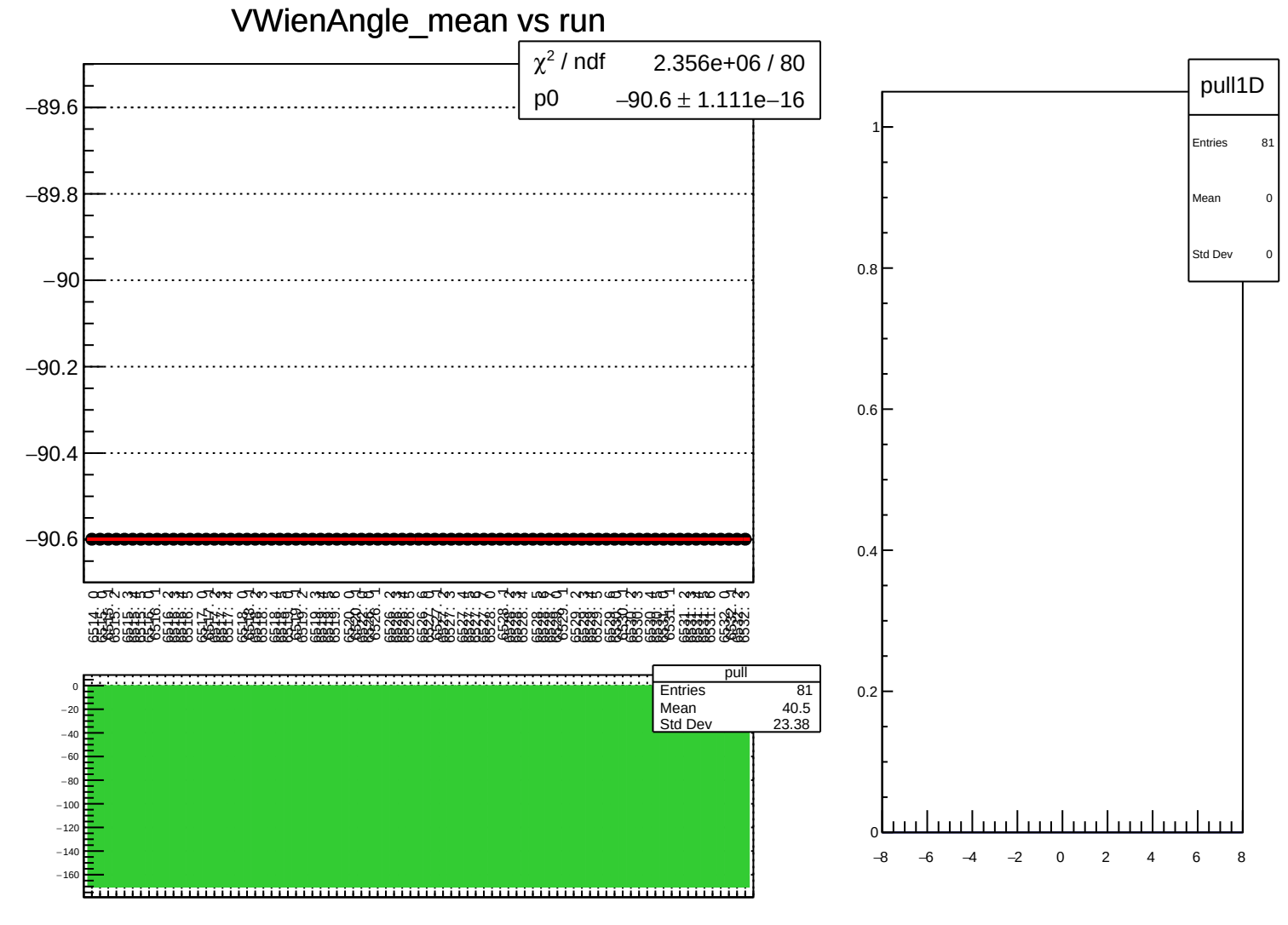

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

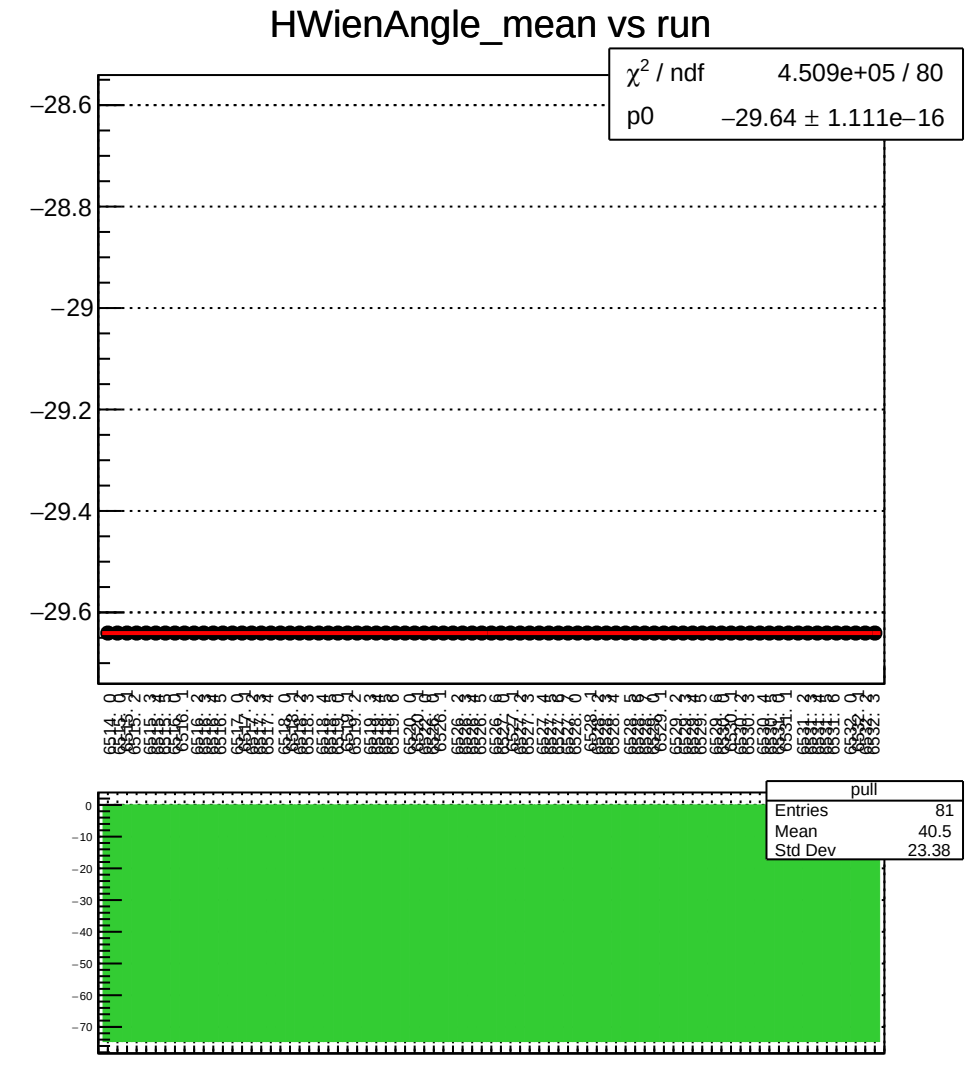

hesDipole_current_mean vs run
×10⁻³
χ² / ndf 0.02949 / 80
p0 0.009375 ± 1.111e−16
9.375
pull
Entries 81
Mean 40.5
Std Dev 23.38

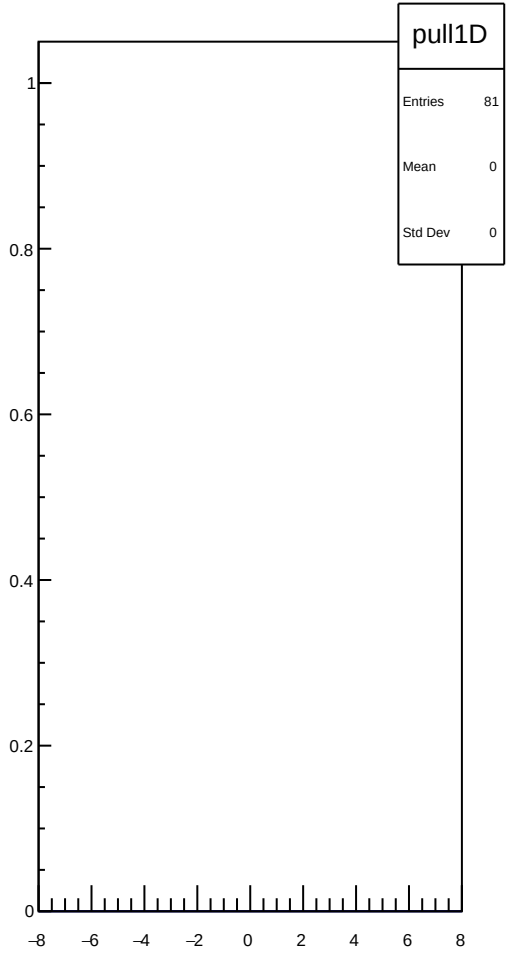

pull1D
Entries 81
Mean 0.01908
Std Dev 6.16e−10

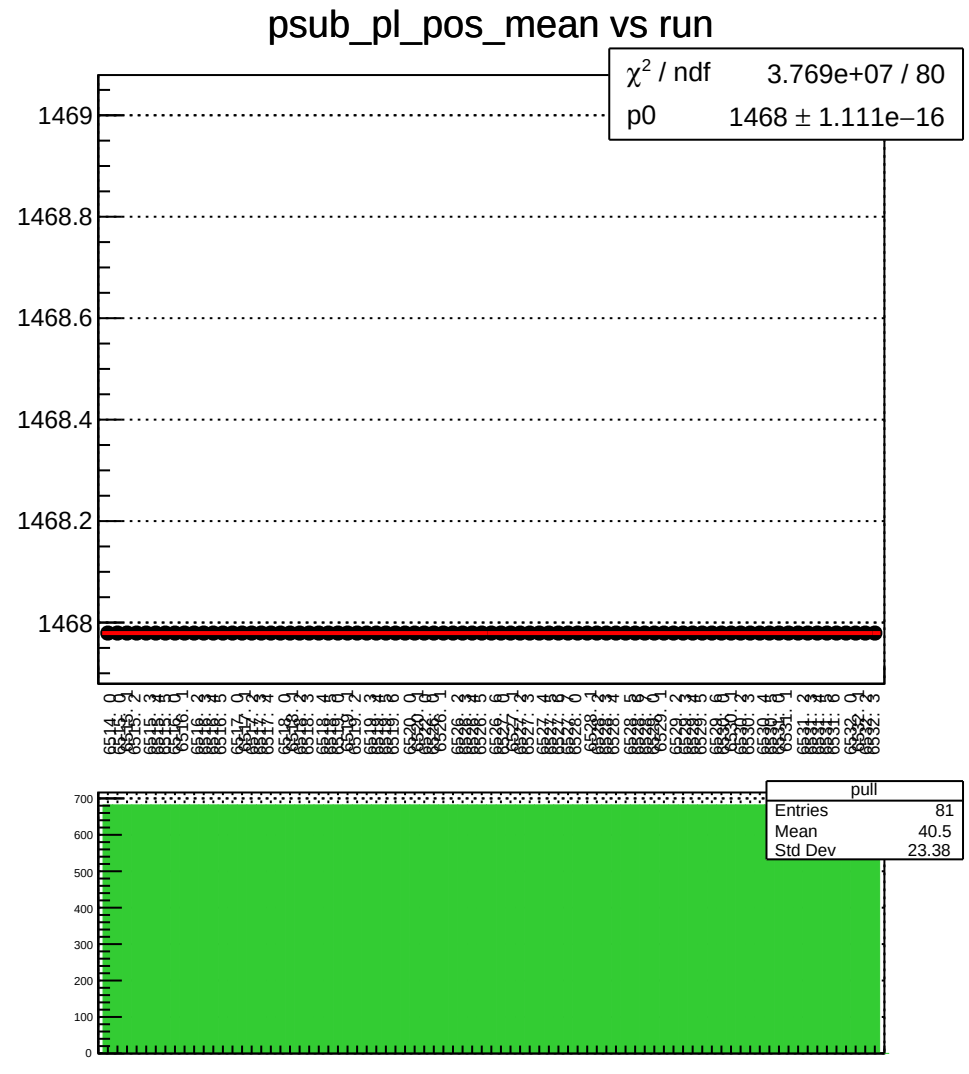

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.02949 / 80
p0 0.009375 ± 1.111e−16
×10⁻³
pull
Entries 81
Mean 40.5
Std Dev 23.38

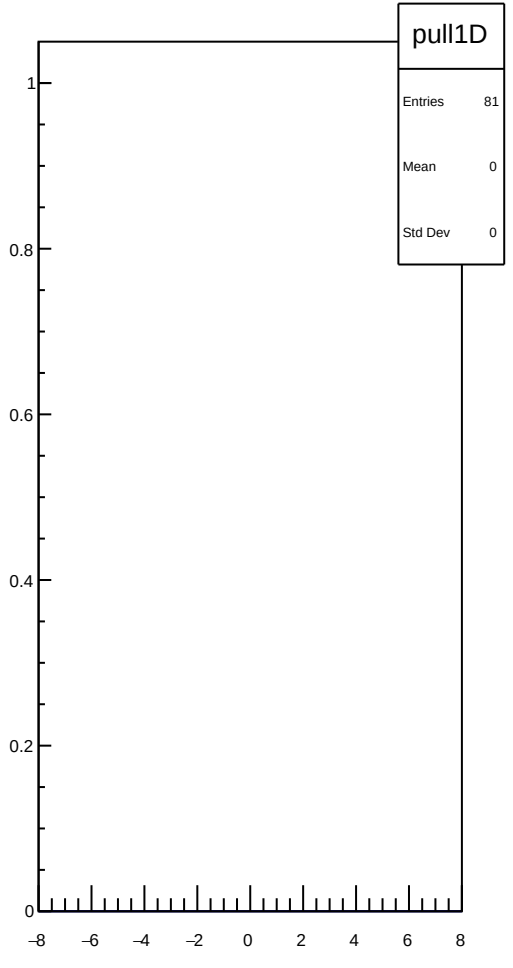

pull1D
Entries 81
Mean 0.01908
Std Dev 6.16e−10

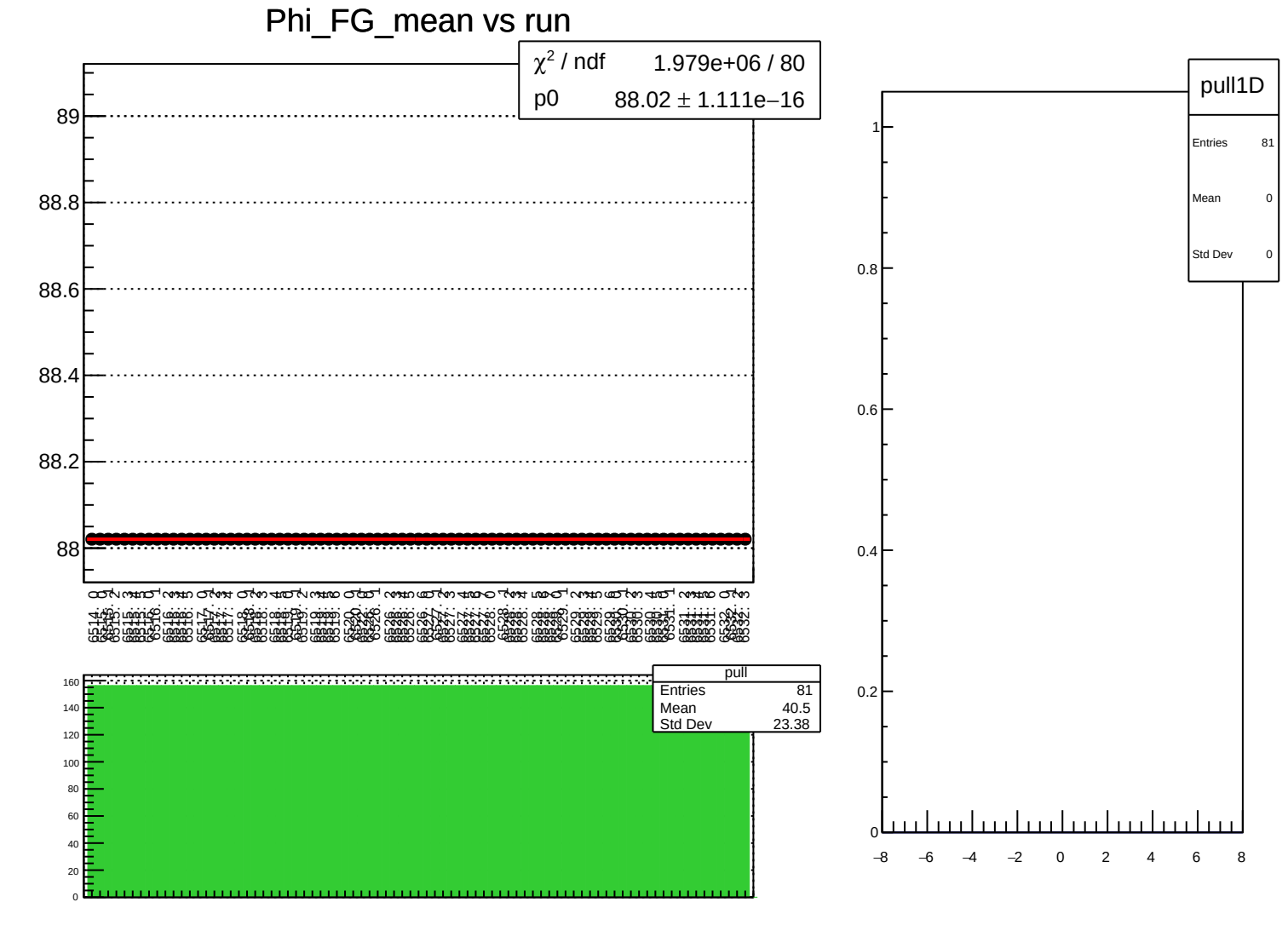

VWienAngle_mean vs run
χ² / ndf 2.356e+06 / 80
p0 −90.6 ± 1.111e−16
−89.6
−89.8
−90
−90.2
−90.4
−90.6
pull
Entries 81
Mean 40.5
Std Dev 23.38
0
−20
−40
−60
−80
−100
−120
−140
−160
pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

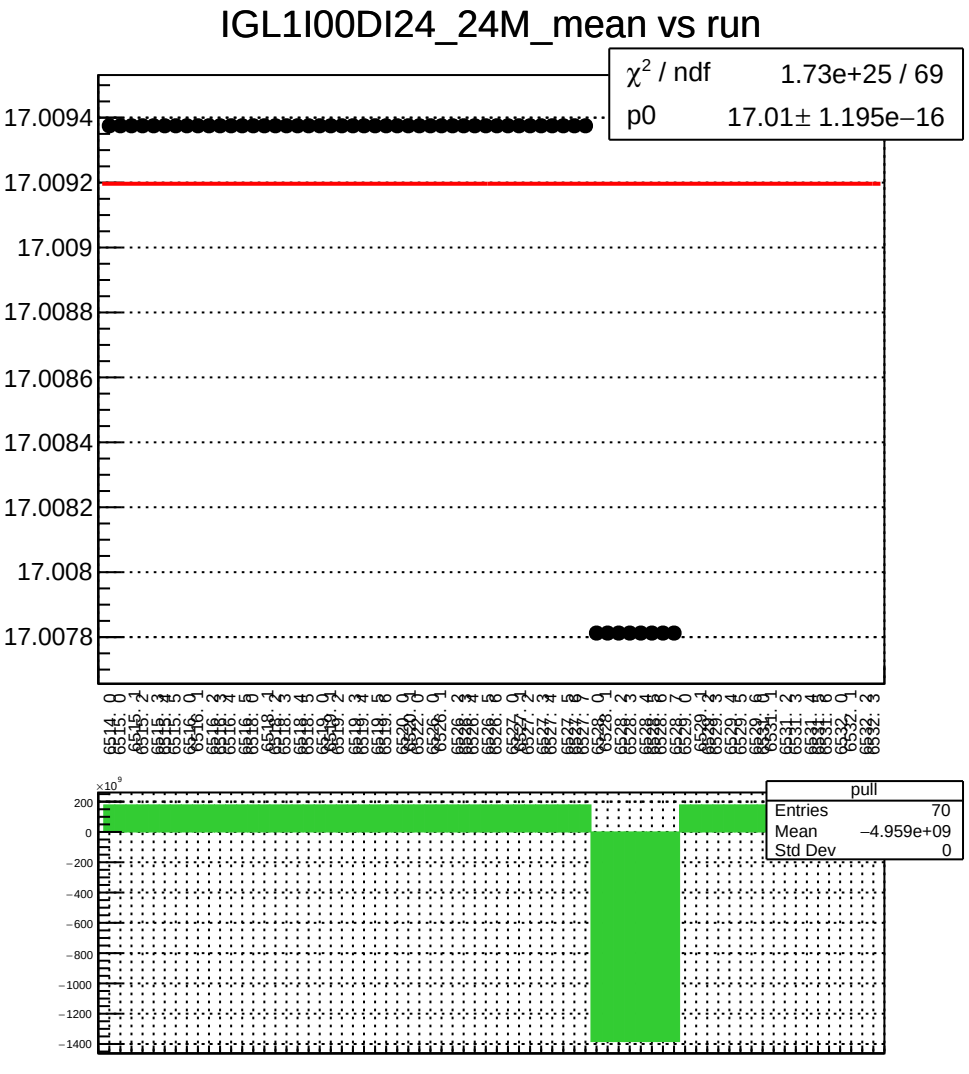

HWienAngle_mean vs run
χ² / ndf 4.509e+05 / 80
p0 −29.64 ± 1.111e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 81
Mean 40.5
Std Dev 23.38
0
−10
−20
−30
−40
−50
−60
−70

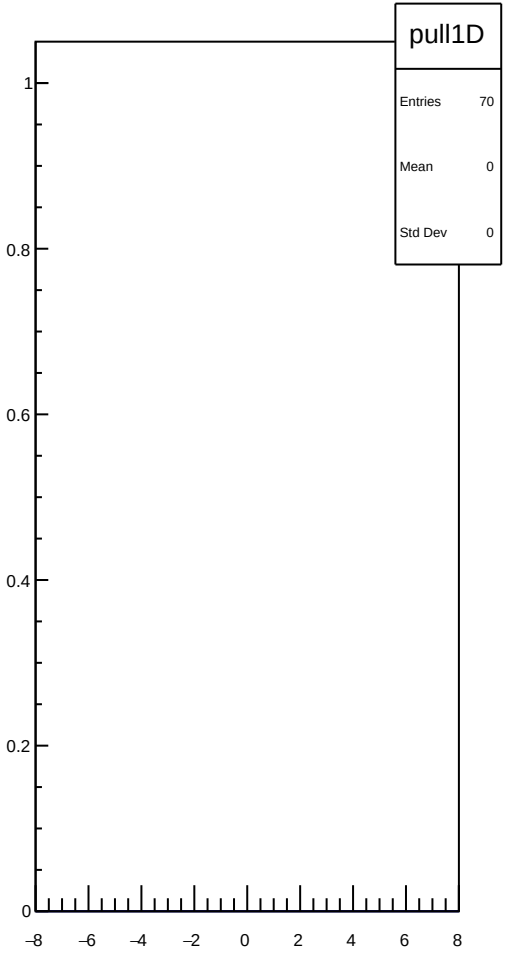

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

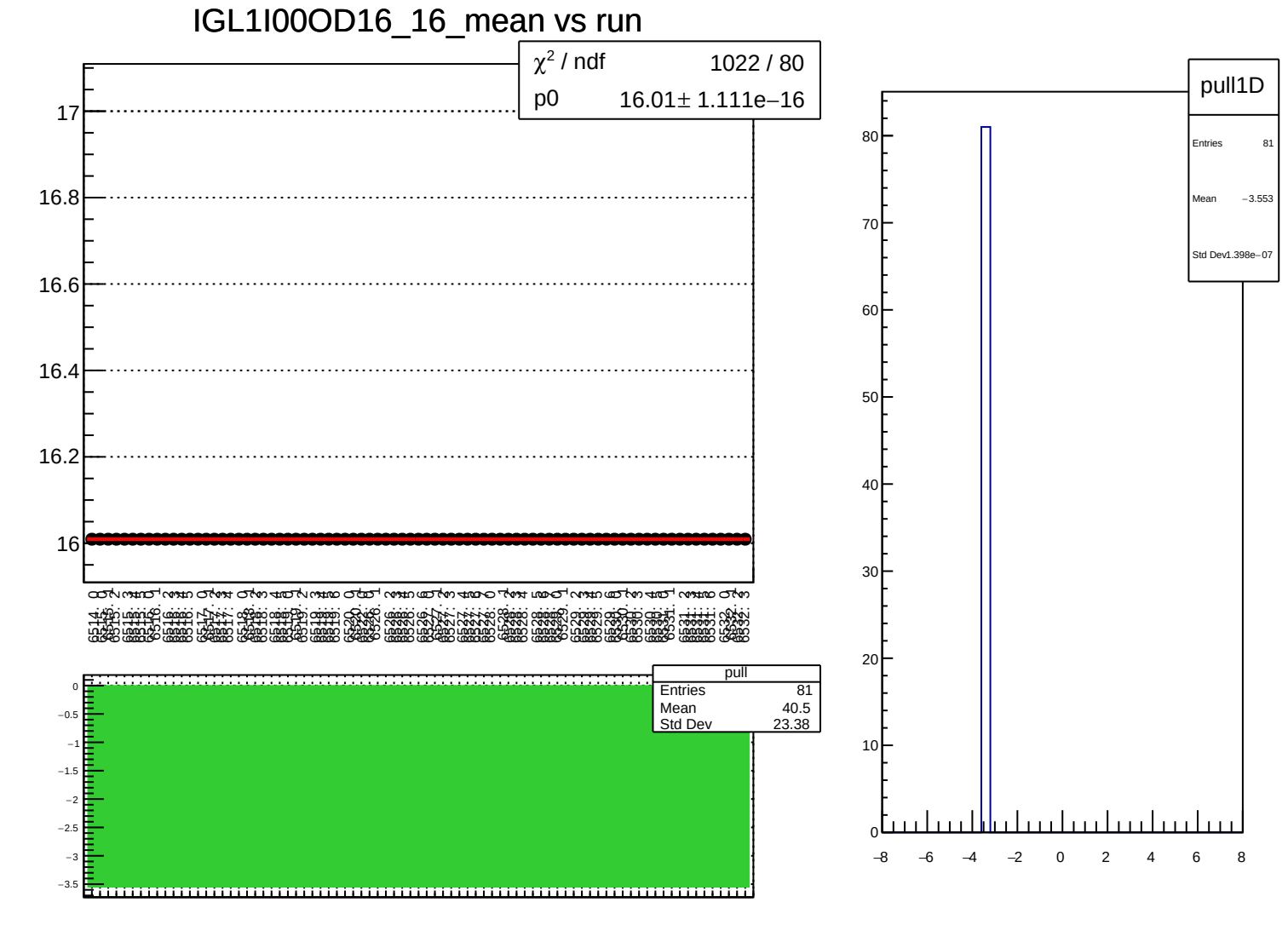

psub_pl_pos_mean vs run
χ² / ndf 3.769e+07 / 80
p0 1468 ± 1.111e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
pull
Entries 81
Mean 40.5
Std Dev 23.38
700
600
500
400
300
200
100
0

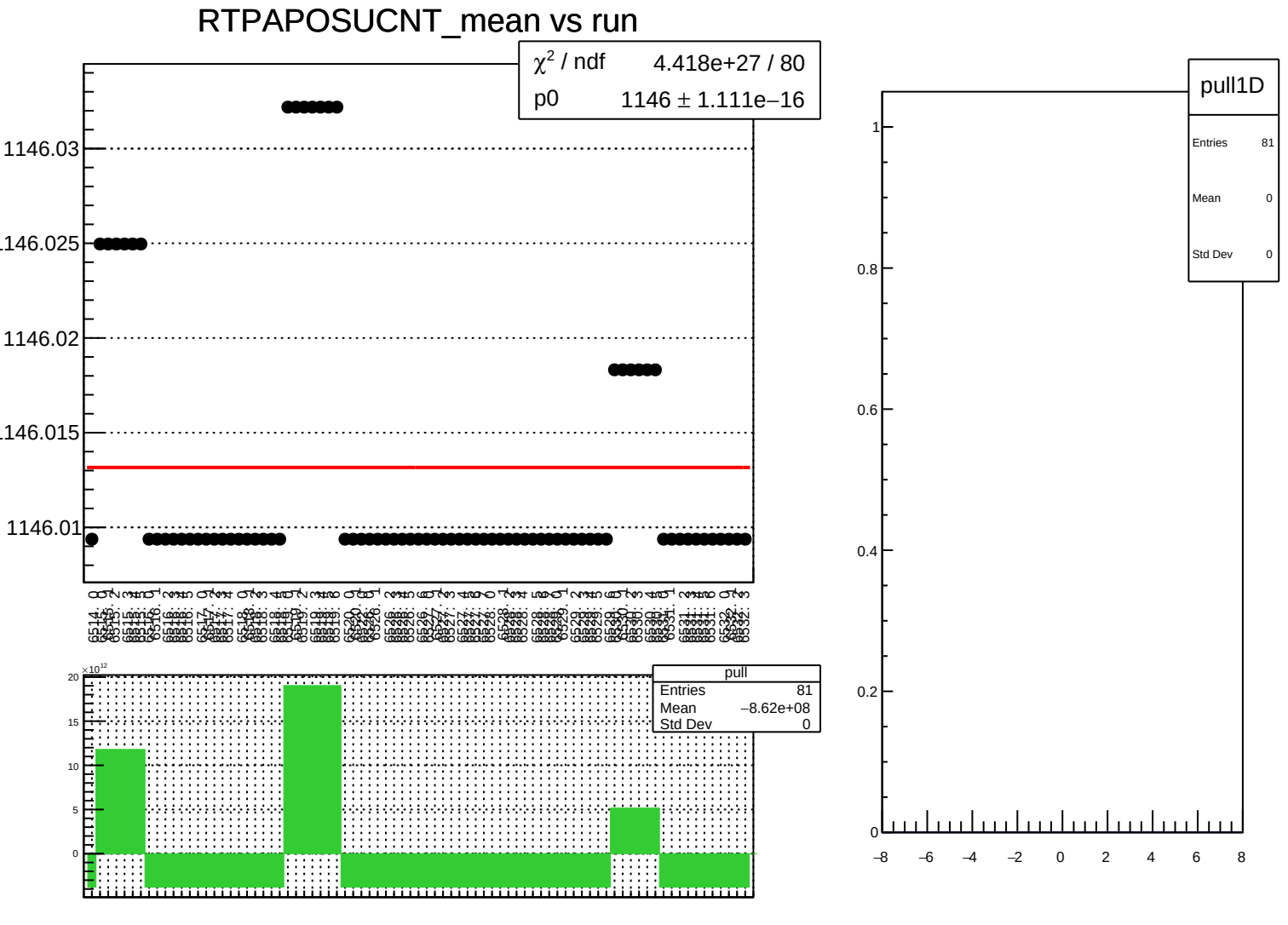

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

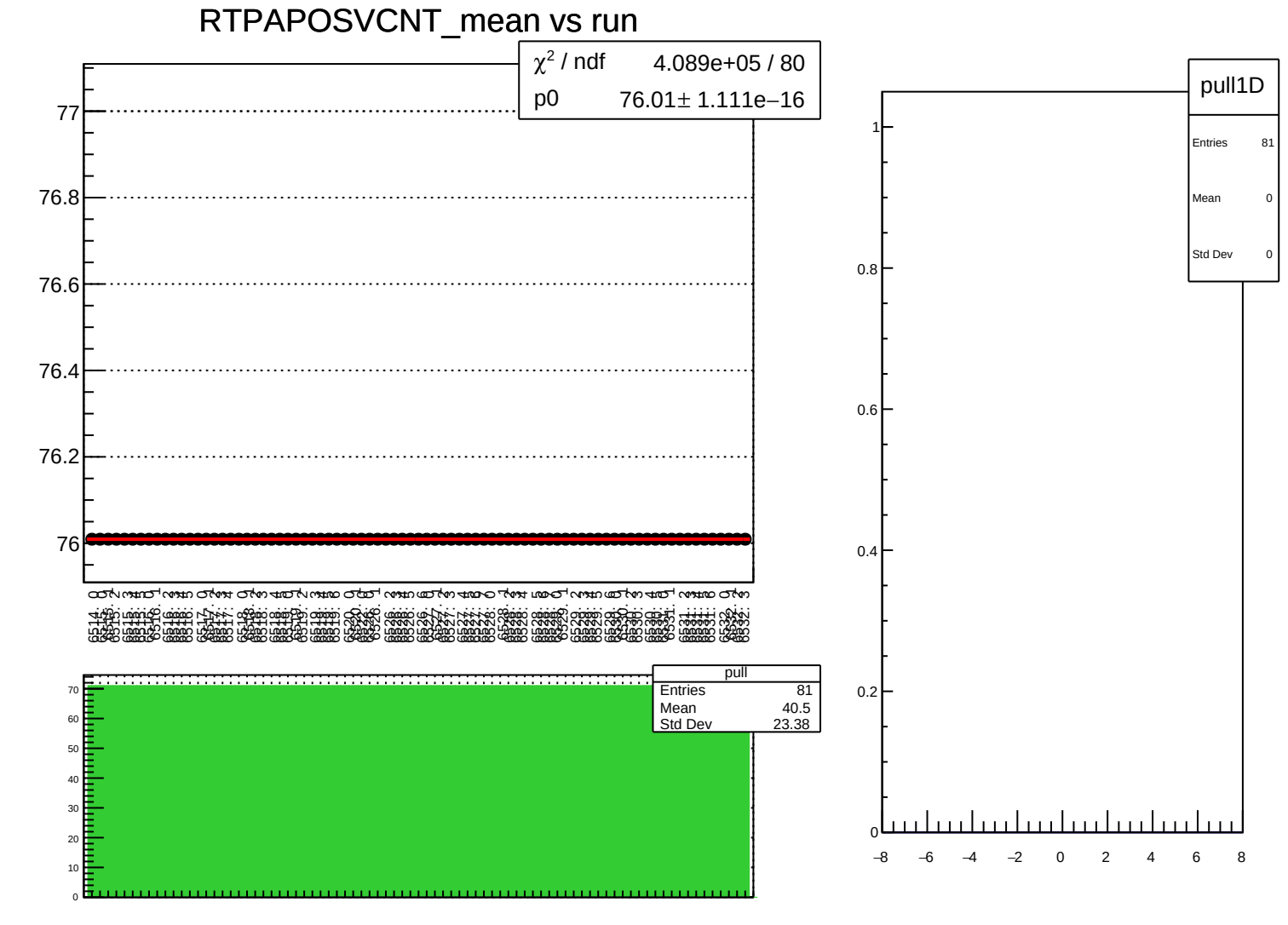

Phi_FG_mean vs run
χ² / ndf 1.979e+06 / 80
p0 88.02 ± 1.111e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 81
Mean 40.5
Std Dev 23.38
160
140
120
100
80
60
40
20
0
pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

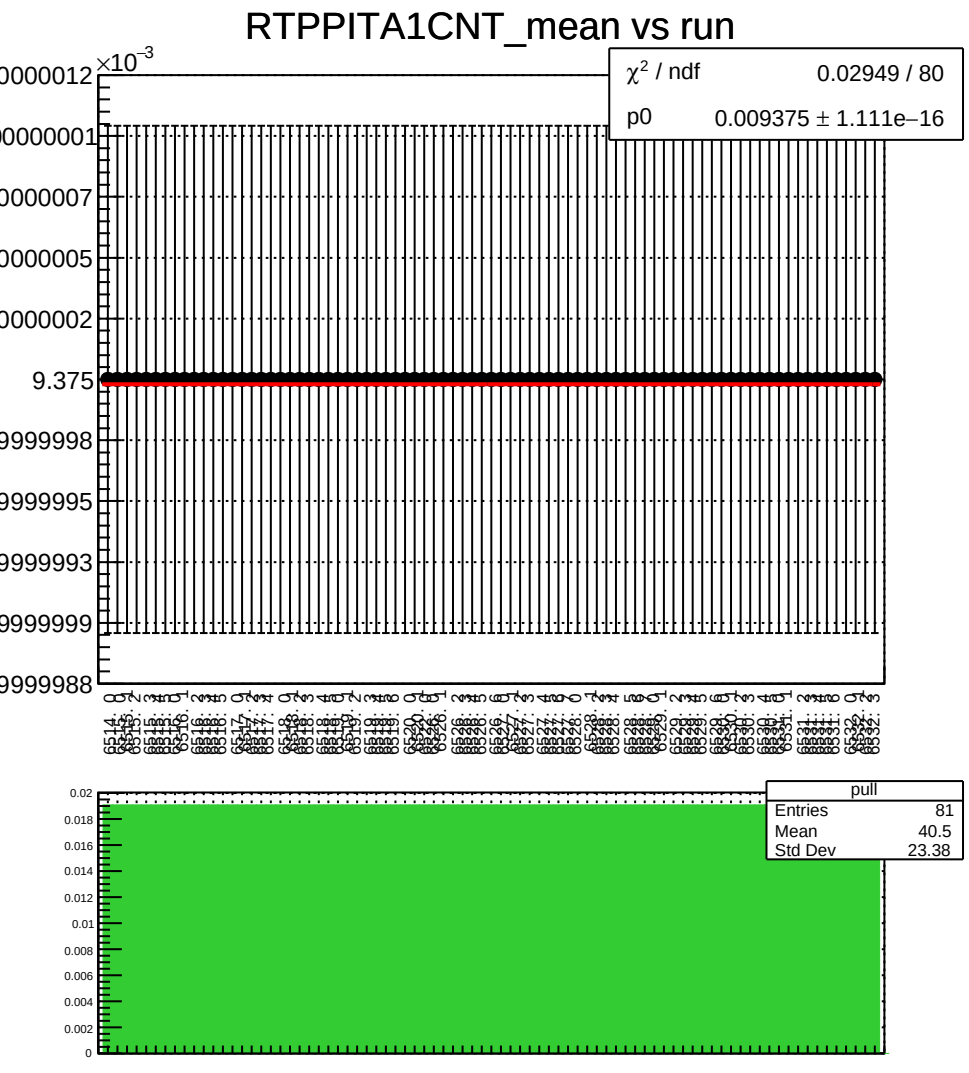

IGL1I00DI24_24M_mean vs run
χ² / ndf 1.73e+25 / 69
p0 17.01± 1.195e−16
17.0094
17.0092
17.009
17.0088
17.0086
17.0084
17.0082
17.008
17.0078
pull
Entries 70
Mean −4.959e+09
Std Dev 0
×10⁹
200
0
−200
−400
−600
−800
−1000
−1200
−1400

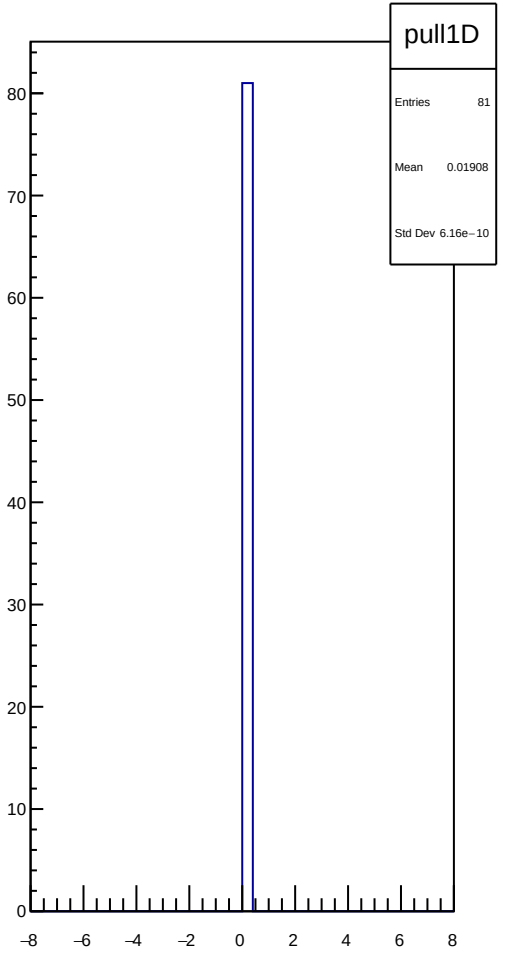

pull1D
Entries 70
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

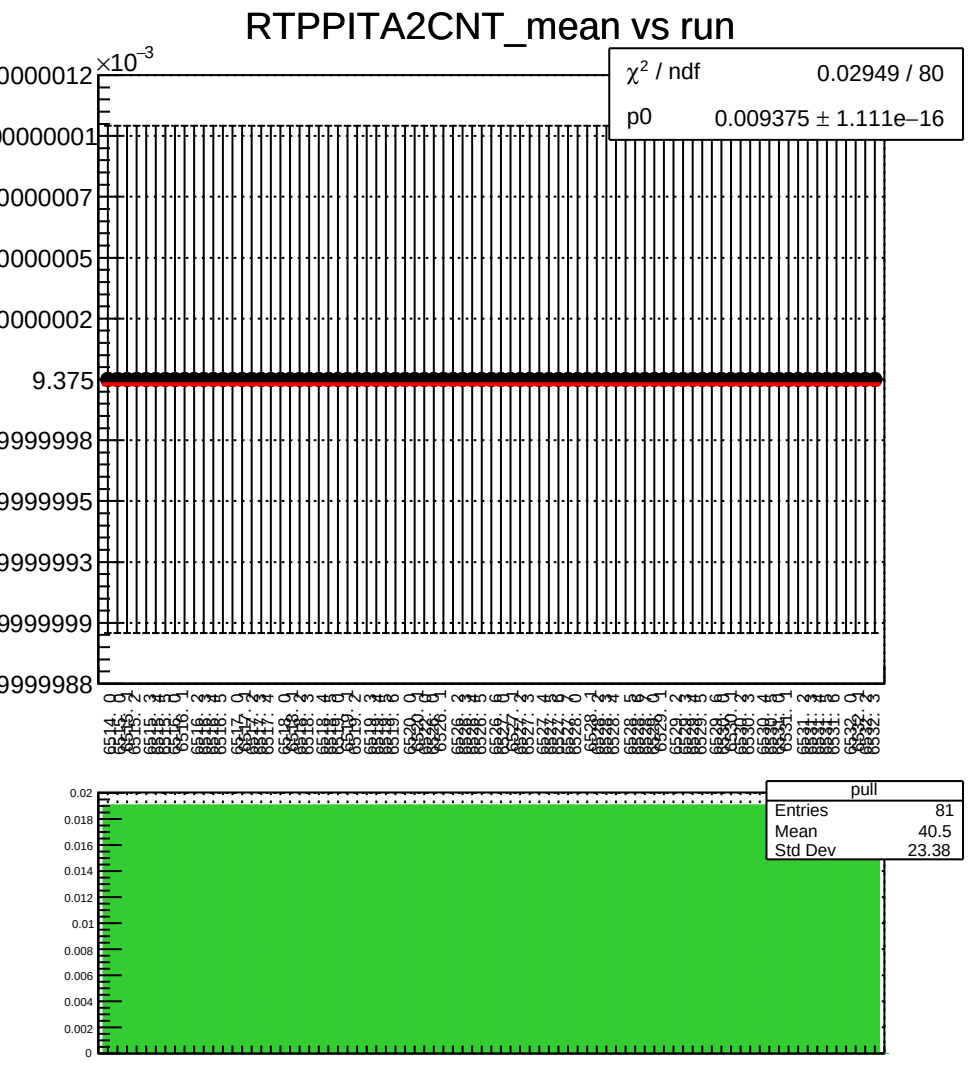

IGL1I00OD16_16_mean vs run
χ² / ndf 1022 / 80
p0 16.01± 1.111e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 81
Mean 40.5
Std Dev 23.38
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
pull1D
Entries 81
Mean −3.553
Std Dev1.398e−07
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

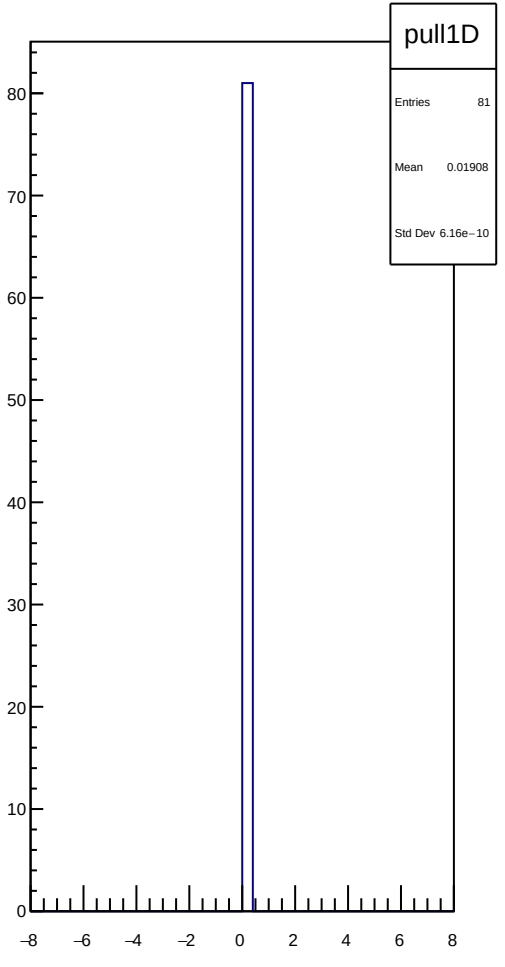

RTPAPOSUCNT_mean vs run
χ² / ndf 4.418e+27 / 80
p0 1146 ± 1.111e−16
1146.03
1146.025
1146.02
1146.015
1146.01
pull
Entries 81
Mean −8.62e+08
Std Dev 0
×10¹²
20
15
10
5
0
pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSVCNT_mean vs run
χ² / ndf 4.089e+05 / 80
p0 76.01± 1.111e−16
77
76.8
76.6
76.4
76.2
76
pull
Entries 81
Mean 40.5
Std Dev 23.38
70
60
50
40
30
20
10
0
pull1D
Entries 81
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 0.02949 / 80
p0 0.009375 ± 1.111e−16
×10⁻³
pull
Entries 81
Mean 40.5
Std Dev 23.38


pull1D
Entries 81
Mean 0.01908
Std Dev 6.16e−10


RTPPITA2CNT_mean vs run
χ² / ndf 0.02949 / 80
p0 0.009375 ± 1.111e−16
×10⁻³
pull
Entries 81
Mean 40.5
Std Dev 23.38


pull1D
Entries 81
Mean 0.01908
Std Dev 6.16e−10