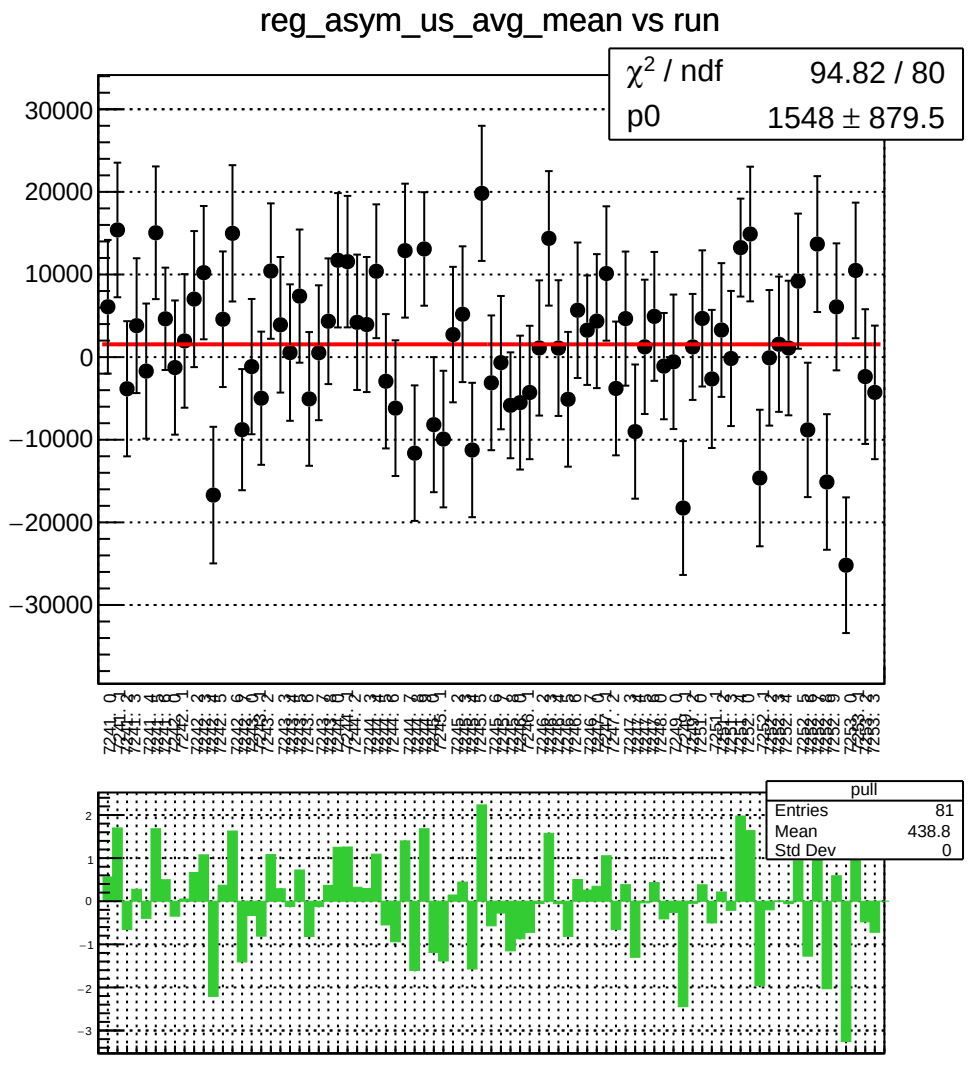
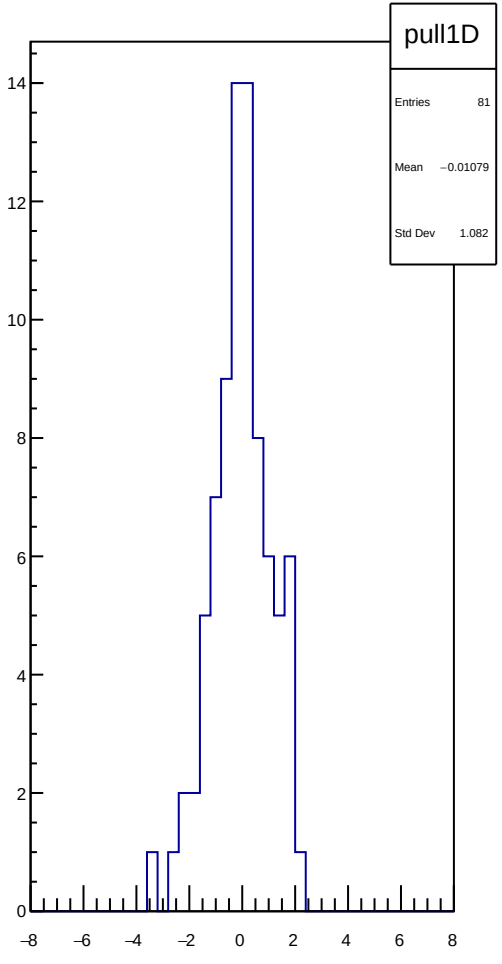
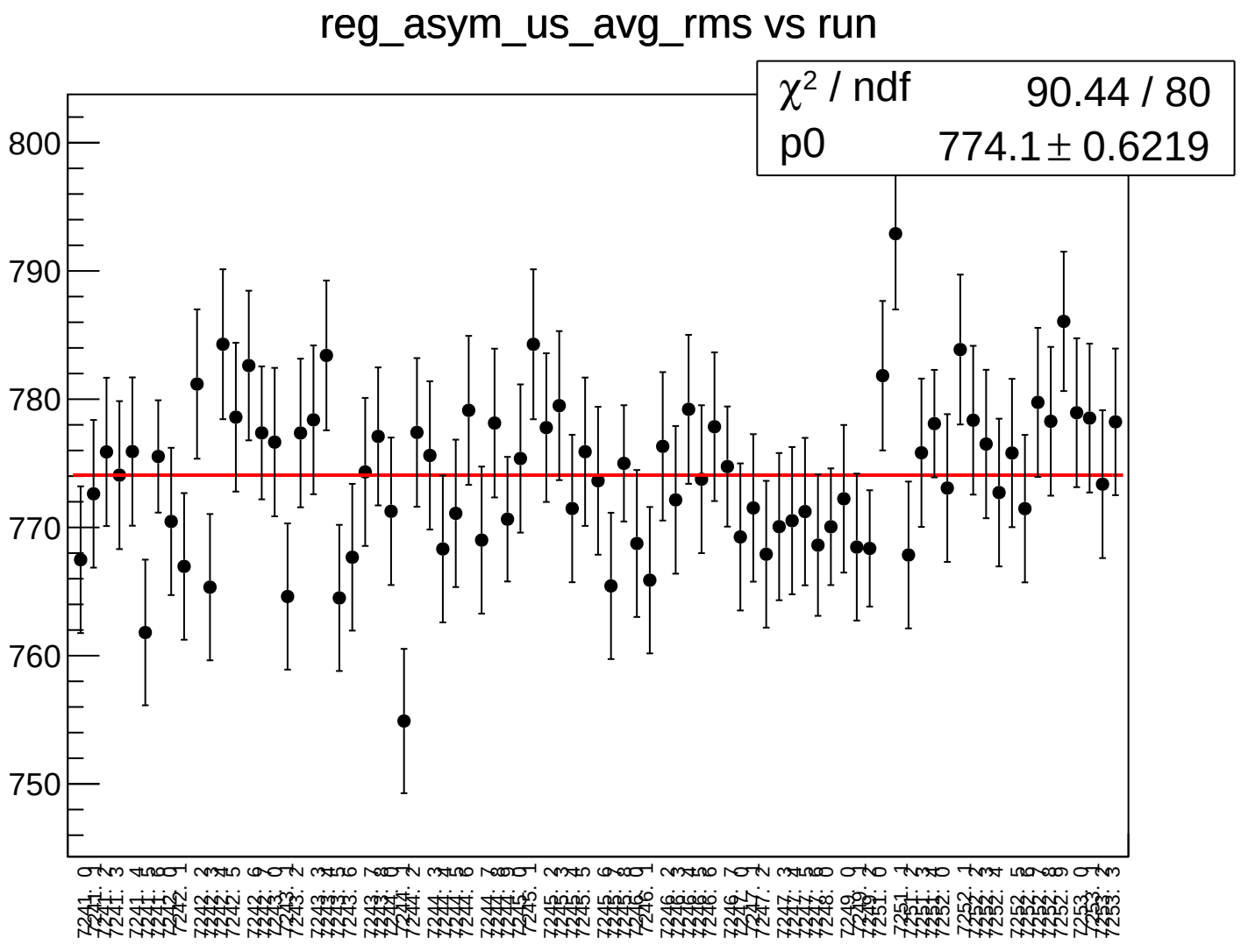
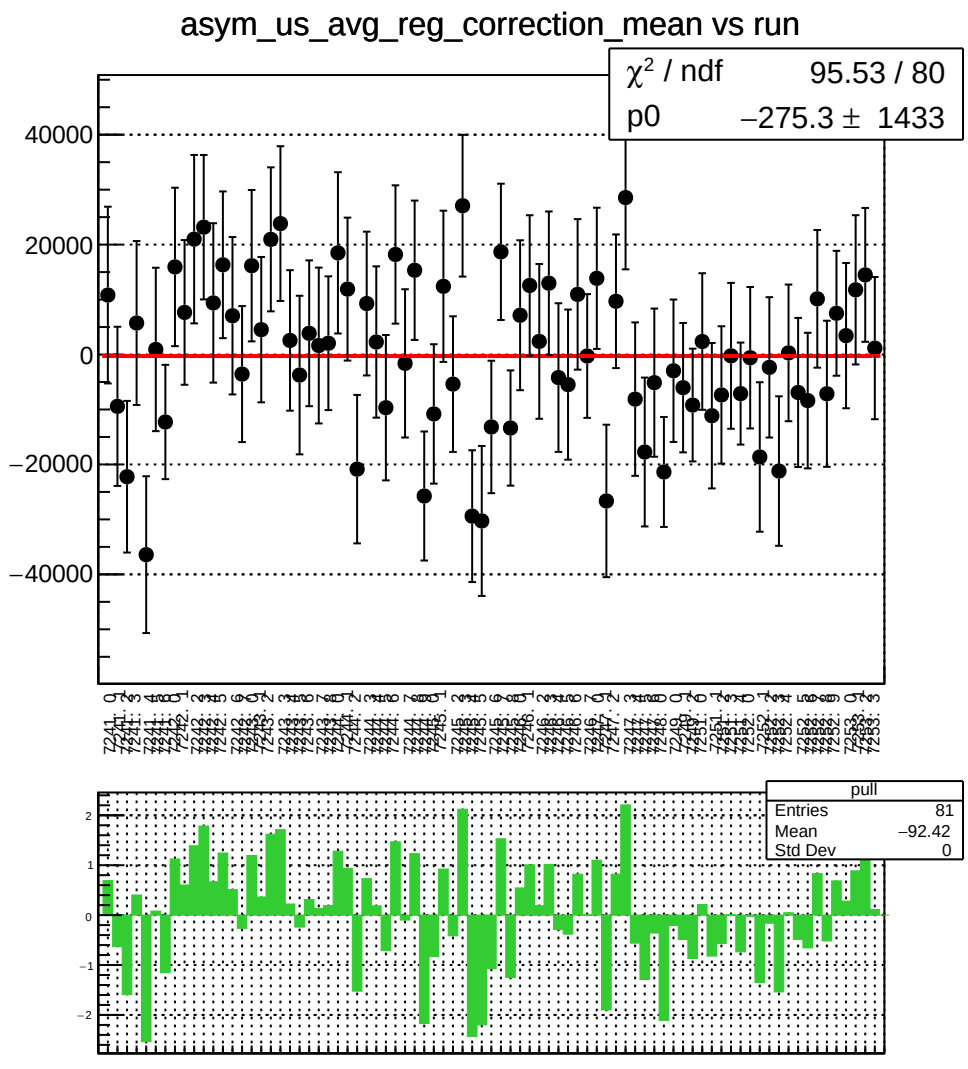
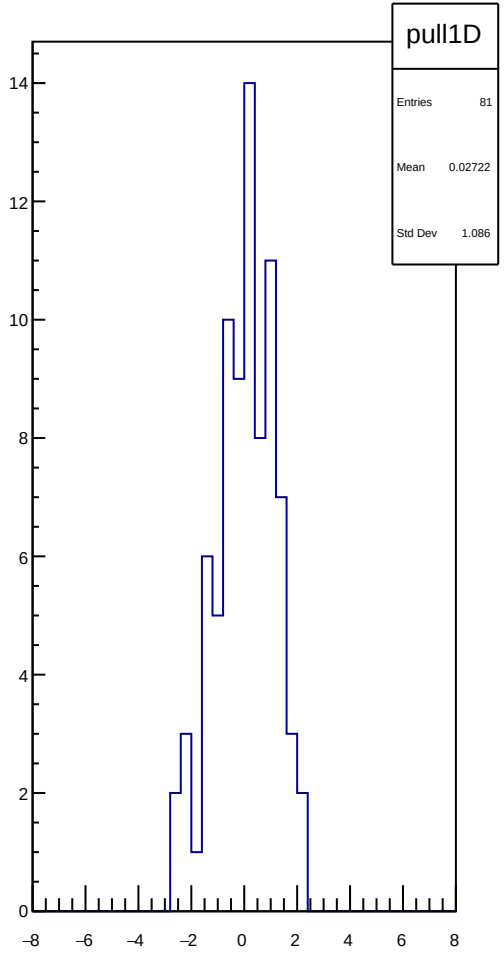
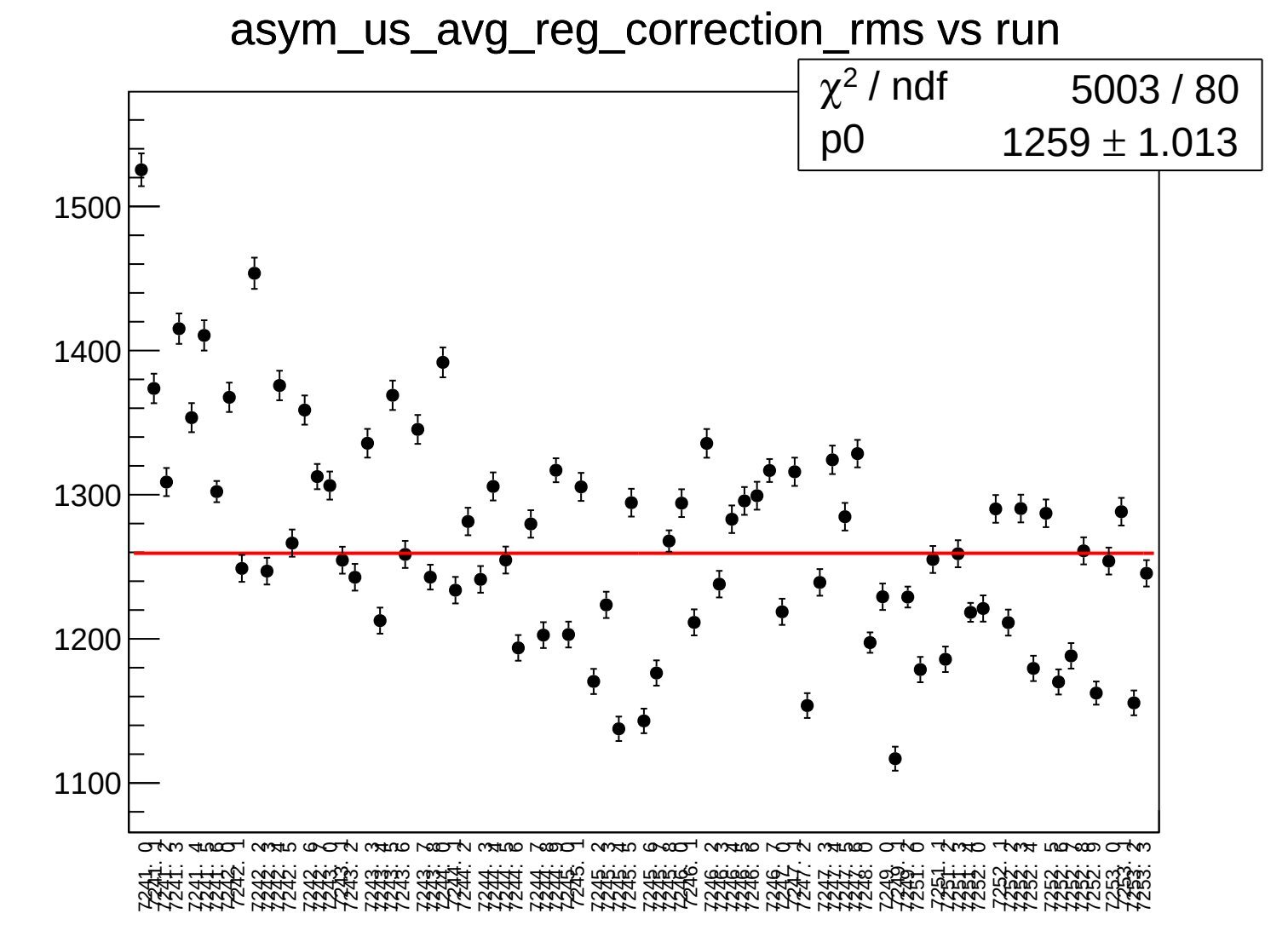

reg_asym_us_avg_mean vs run
χ² / ndf 94.82 / 80
p0 1548 ± 879.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean 438.8
Std Dev 0
2
1
0
−1
−2
−3

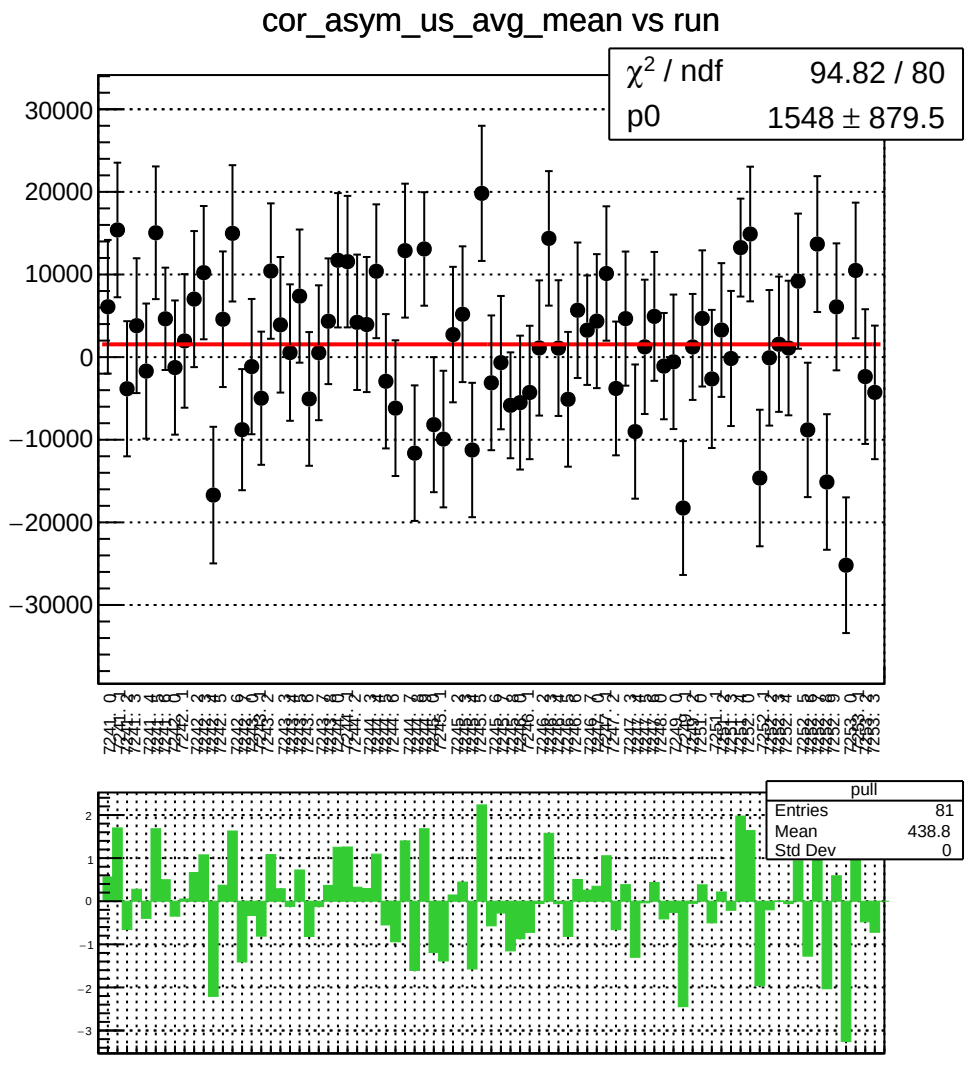

pull1D
Entries 81
Mean −0.01079
Std Dev 1.082
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

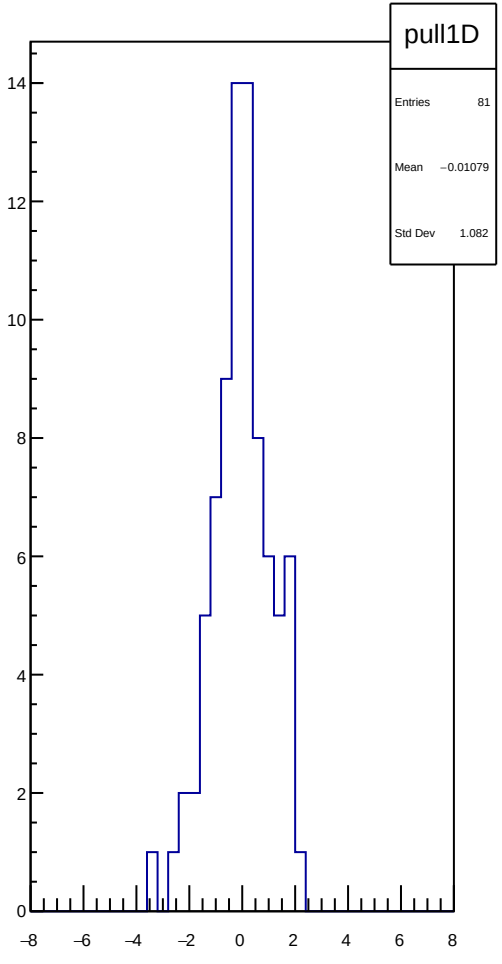

reg_asym_us_avg_rms vs run
χ² / ndf 90.44 / 80
p0 774.1 ± 0.6219
800
790
780
770
760
750

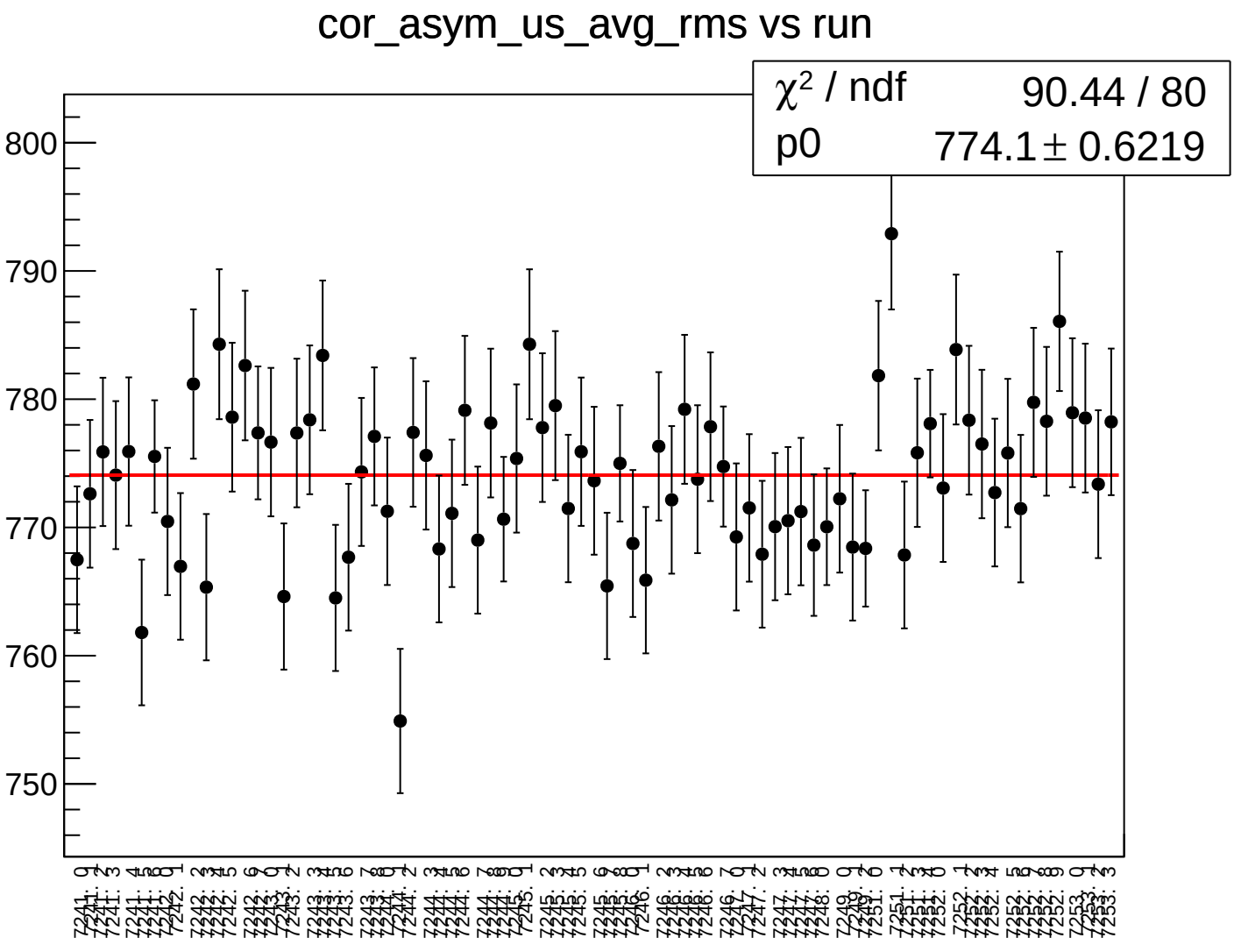

asym_us_avg_reg_correction_mean vs run
χ² / ndf 95.53 / 80
p0 −275.3 ± 1433
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −92.42
Std Dev 0
2
1
0
−1
−2

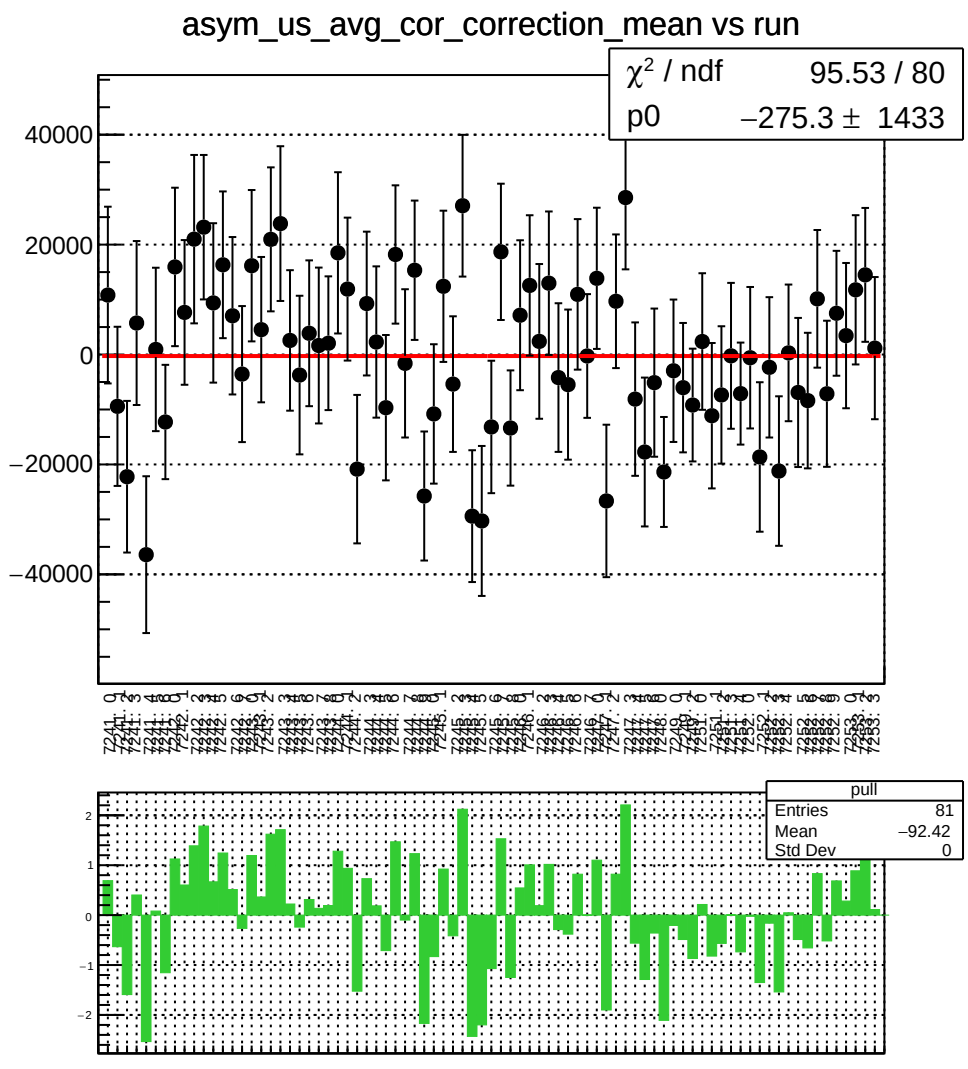

pull1D
Entries 81
Mean 0.02722
Std Dev 1.086
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

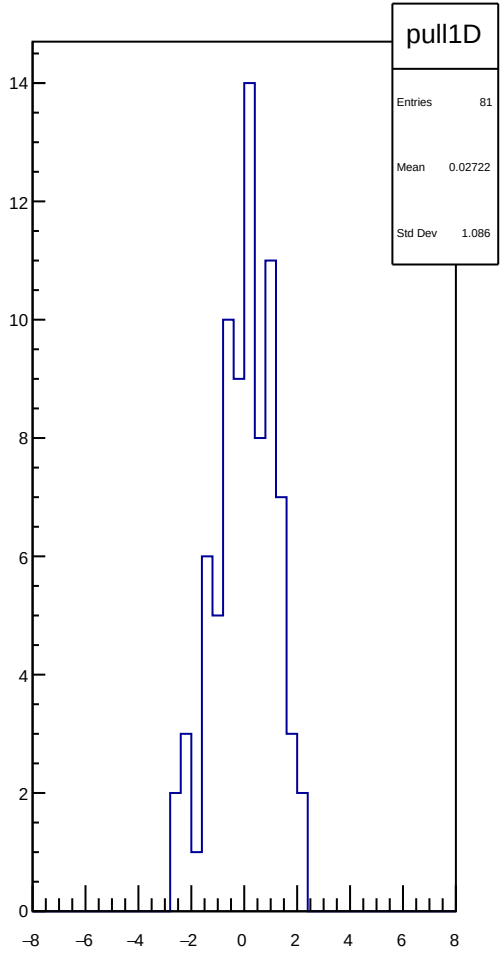

asym_us_avg_reg_correction_rms vs run
χ² / ndf 5003 / 80
p0 1259 ± 1.013
1500
1400
1300
1200
1100


cor_asym_us_avg_mean vs run
χ² / ndf 94.82 / 80
p0 1548 ± 879.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean 438.8
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 81
Mean −0.01079
Std Dev 1.082
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 90.44 / 80
p0 774.1 ± 0.6219
800
790
780
770
760
750


asym_us_avg_cor_correction_mean vs run
χ² / ndf 95.53 / 80
p0 −275.3 ± 1433
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −92.42
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 81
Mean 0.02722
Std Dev 1.086
14
12
10
8
6
4
2
0
−8
−6
−4
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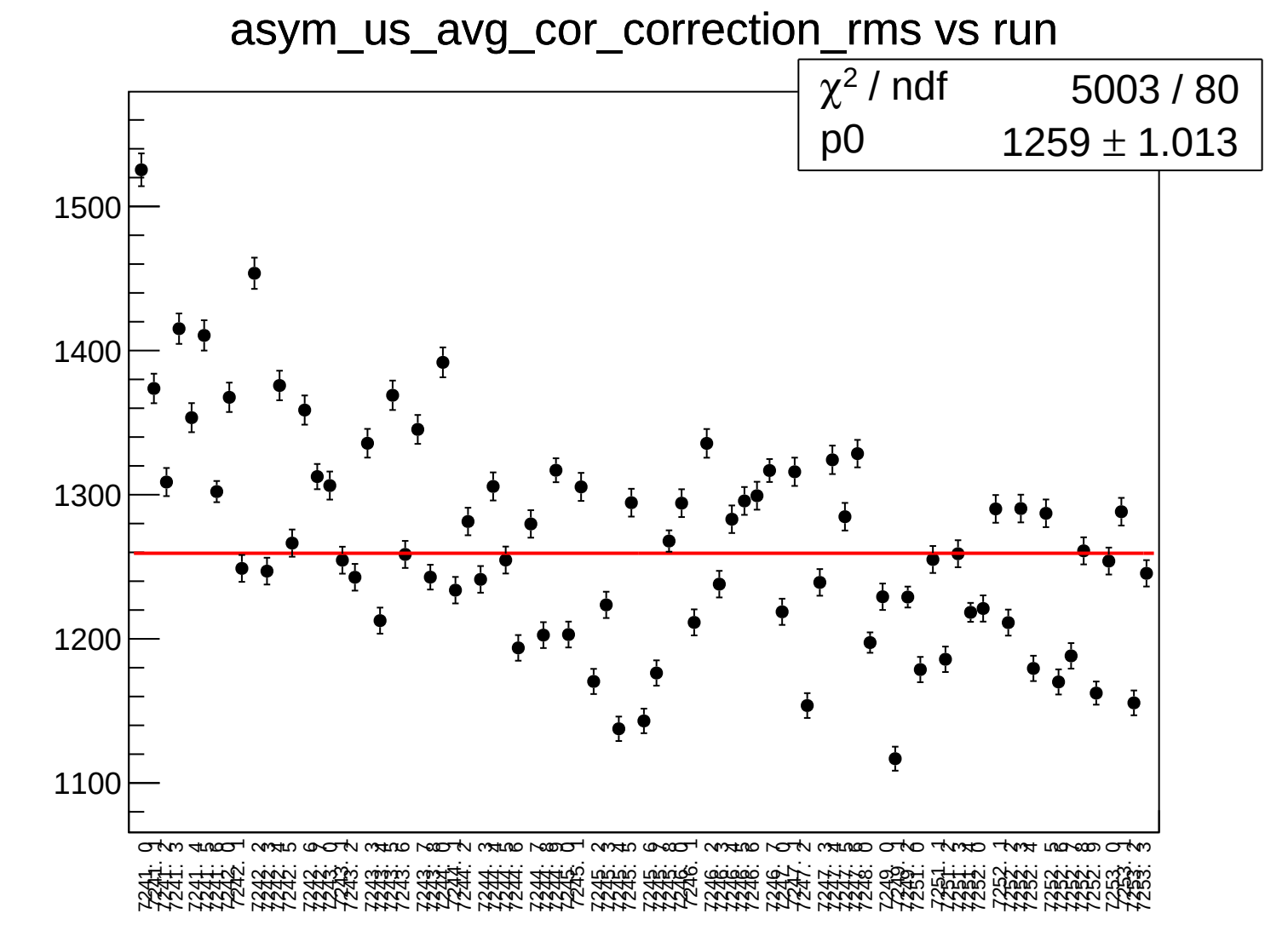
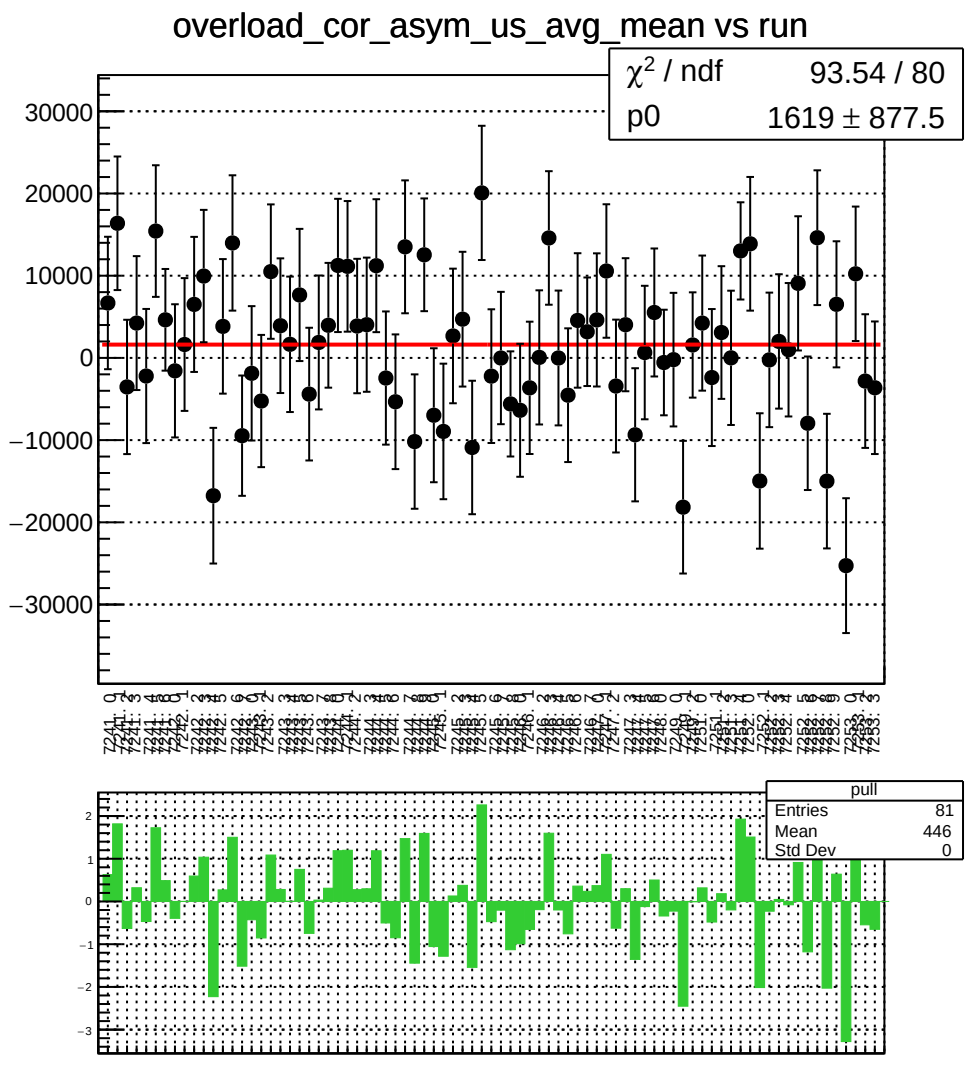
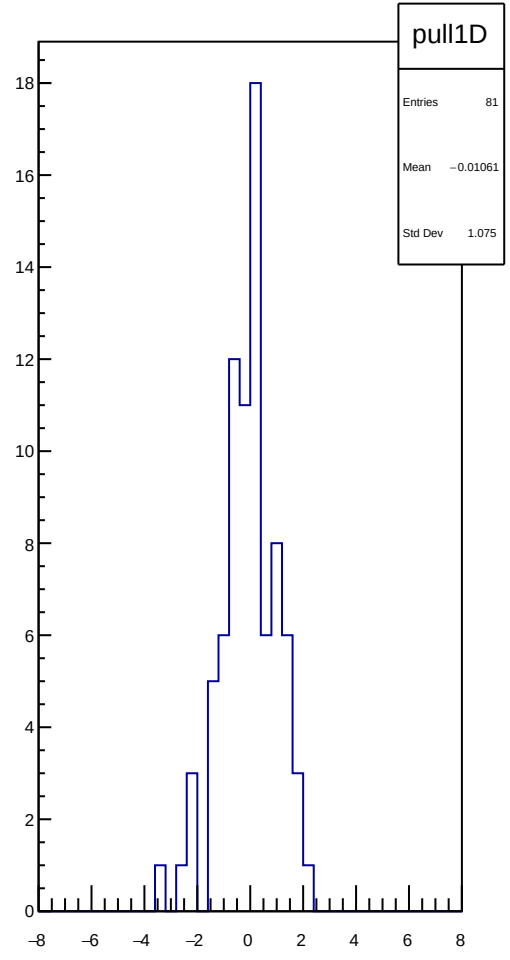
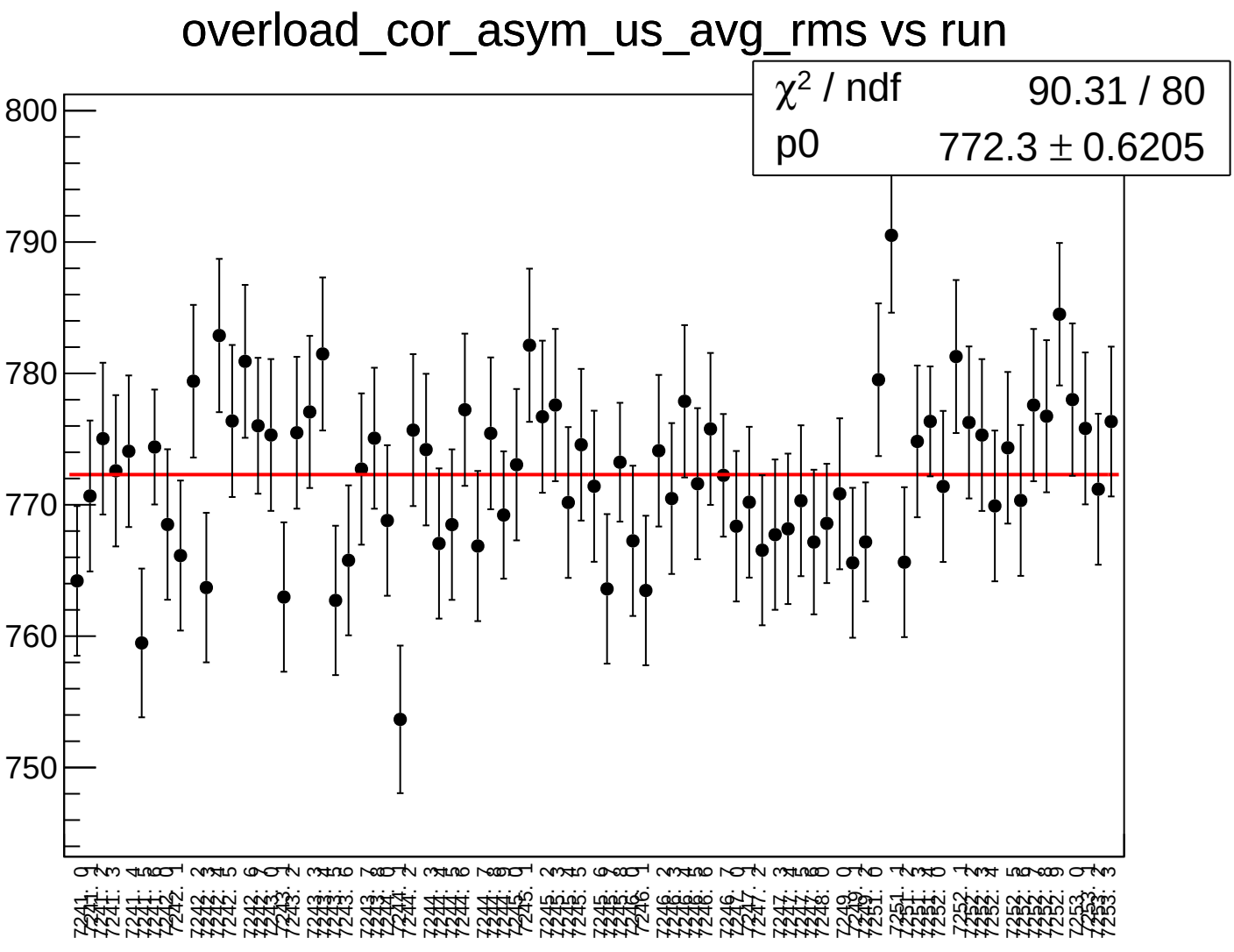
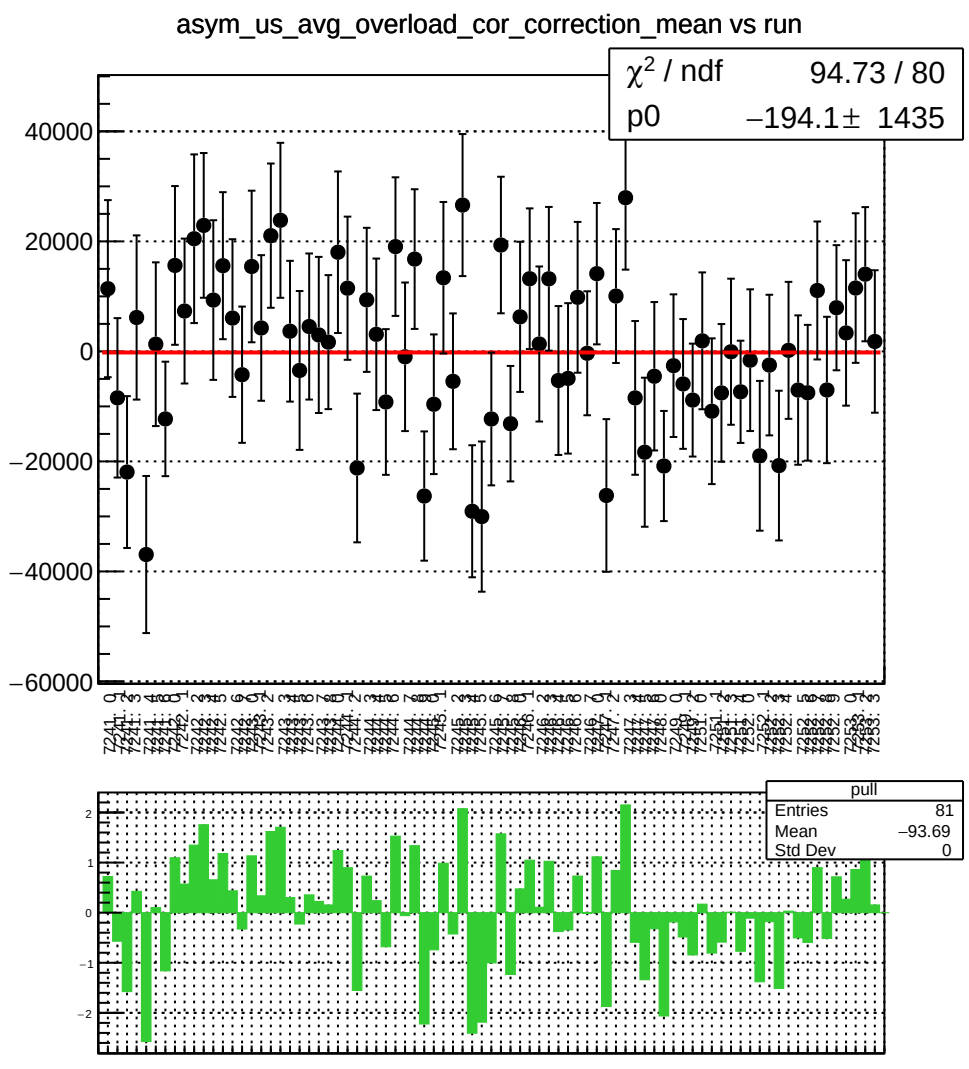
2
4
6
8

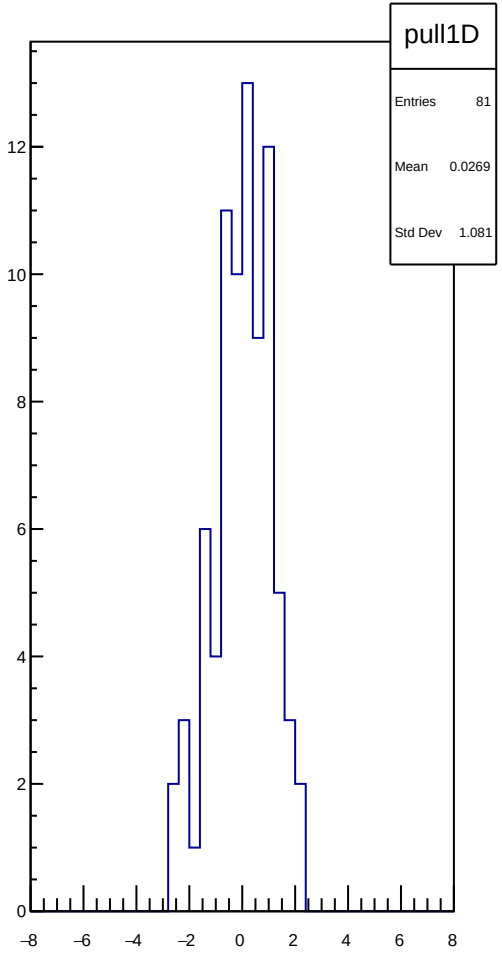

asym_us_avg_cor_correction_rms vs run
χ² / ndf 5003 / 80
p0 1259 ± 1.013
1500
1400
1300
1200
1100

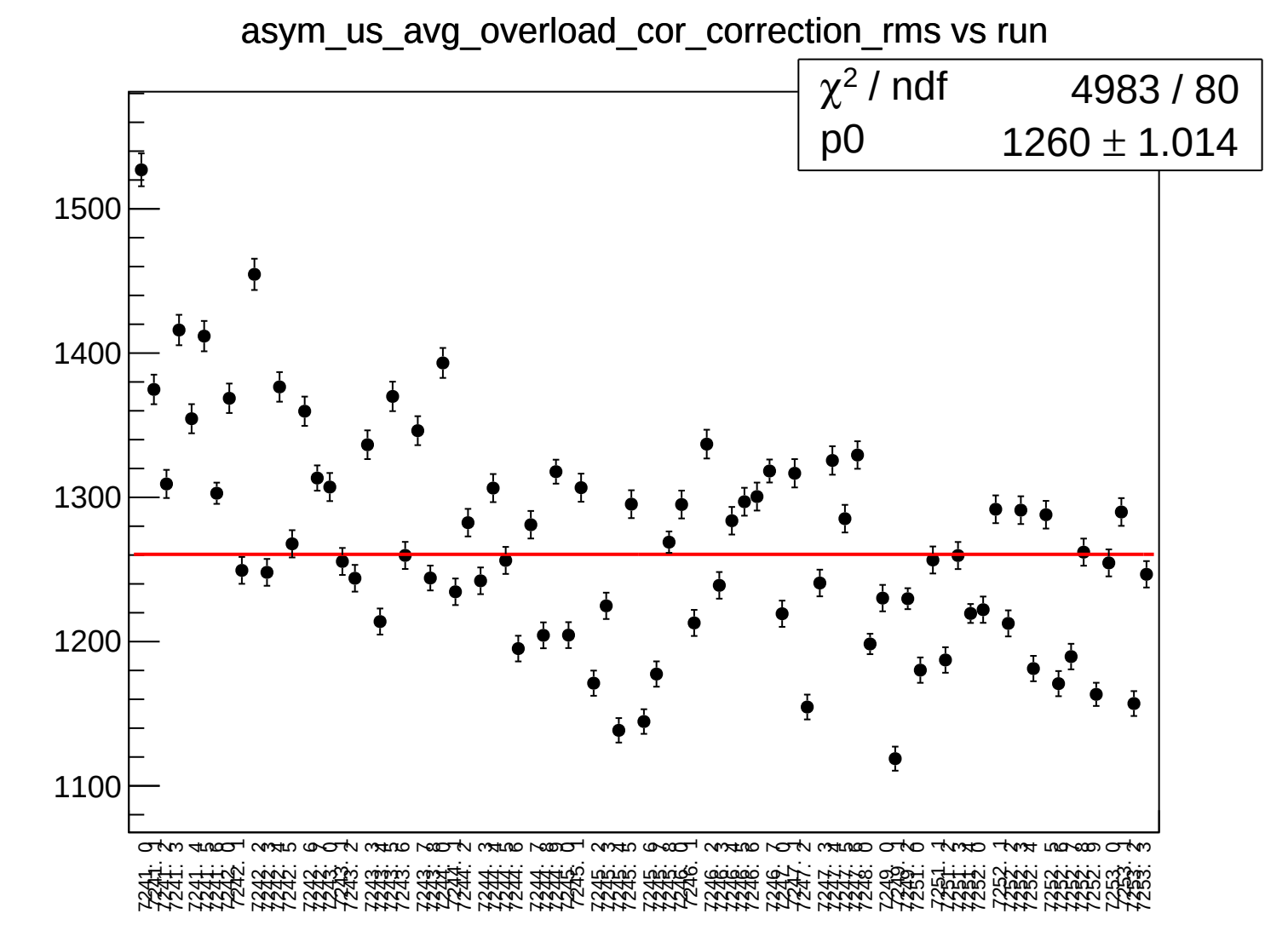

overload_cor_asym_us_avg_mean vs run
χ² / ndf 93.54 / 80
p0 1619 ± 877.5
pull
Entries 81
Mean 446
Std Dev 0

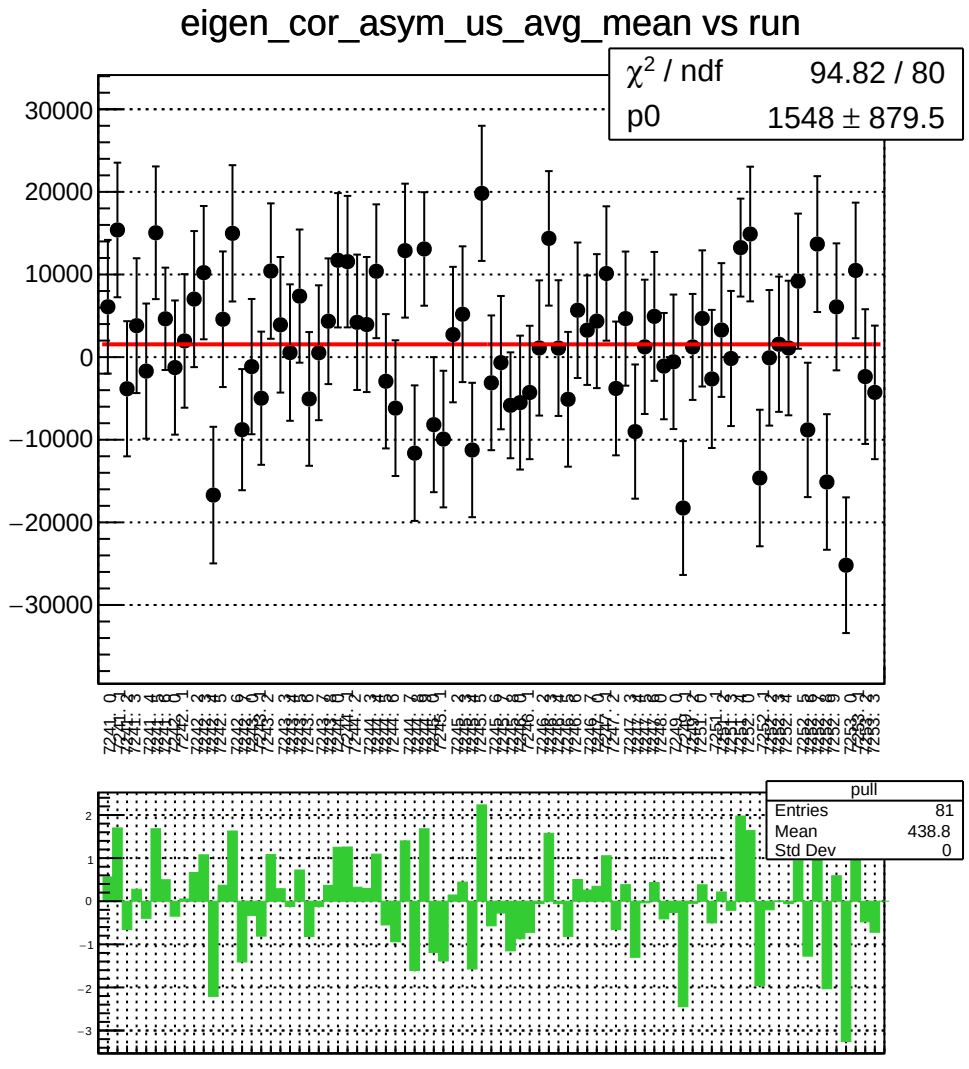

pull1D
Entries 81
Mean −0.01061
Std Dev 1.075

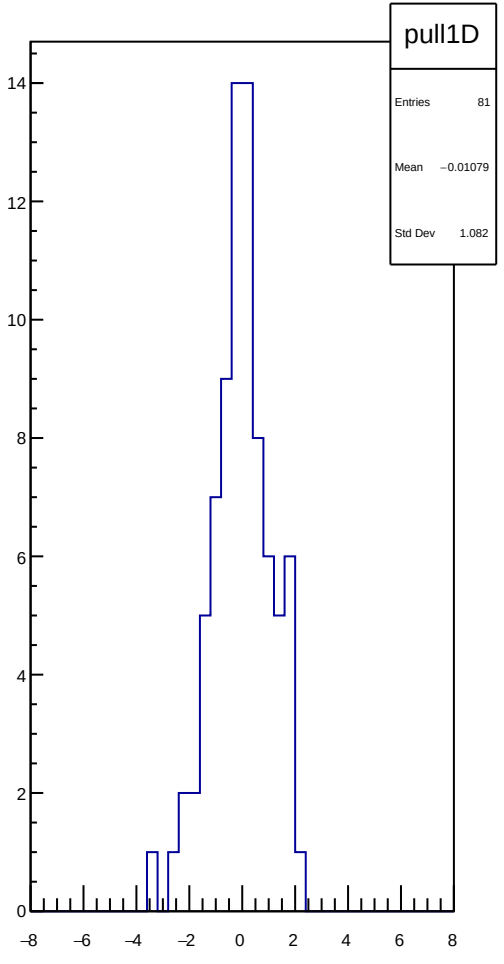

overload_cor_asym_us_avg_rms vs run
χ² / ndf 90.31 / 80
p0 772.3 ± 0.6205
800
790
780
770
760
750

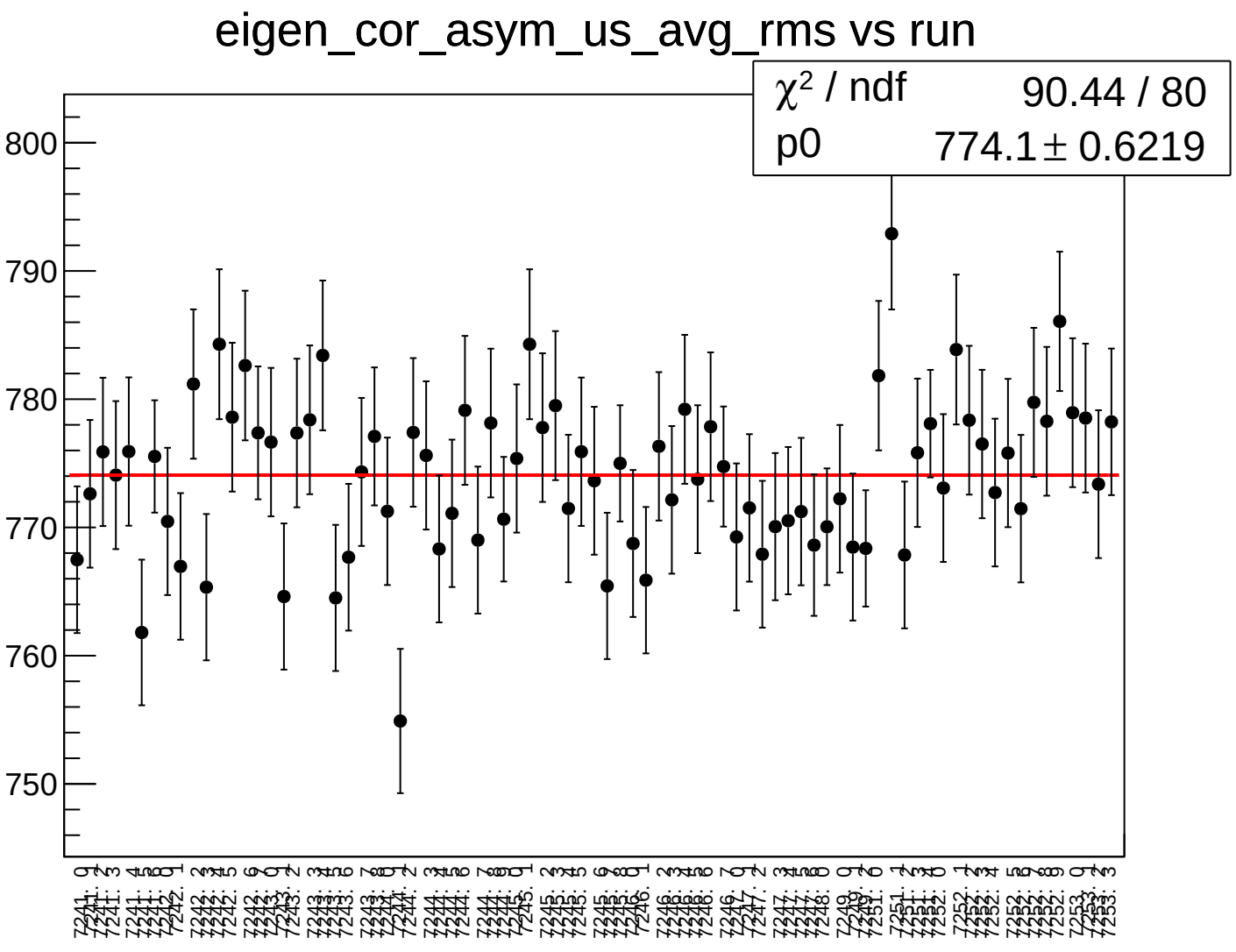

asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 94.73 / 80
p0 −194.1± 1435
pull
Entries 81
Mean −93.69
Std Dev 0

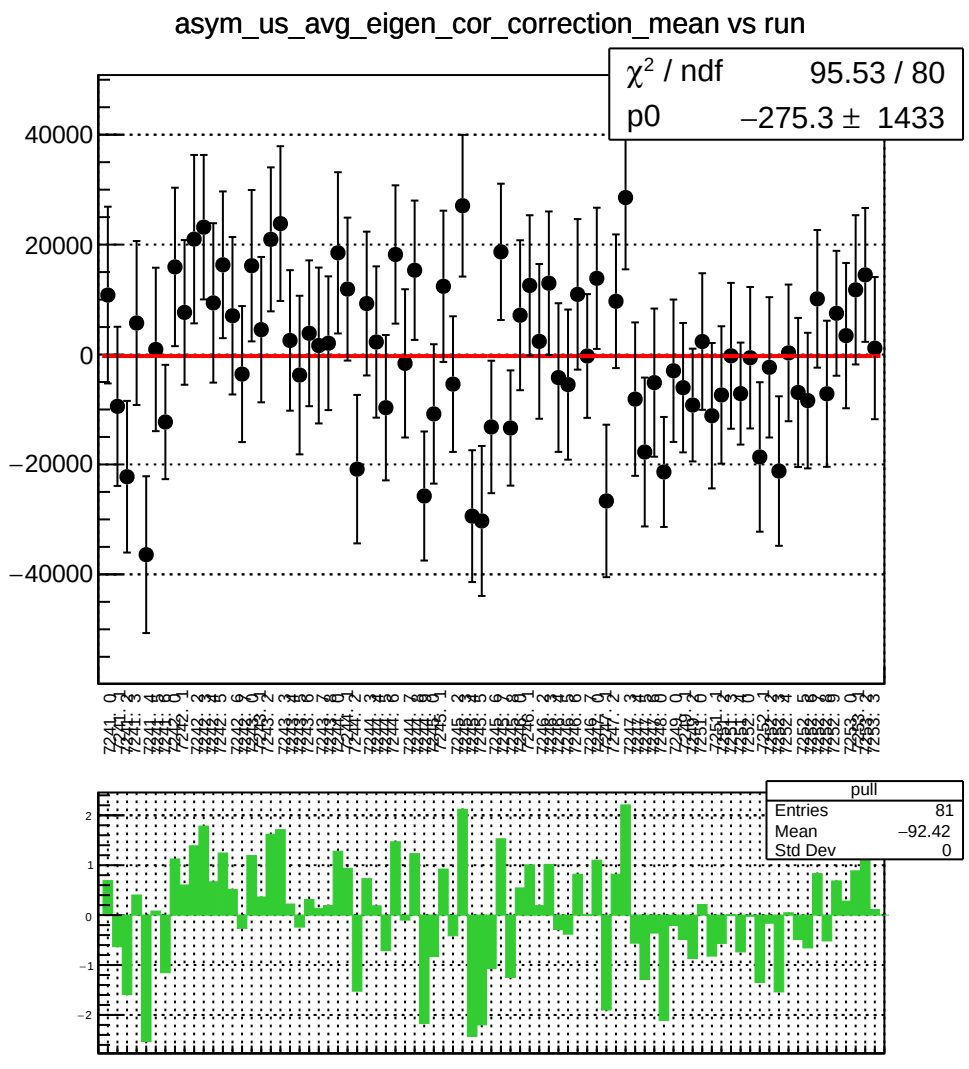

pull1D
Entries 81
Mean 0.0269
Std Dev 1.081

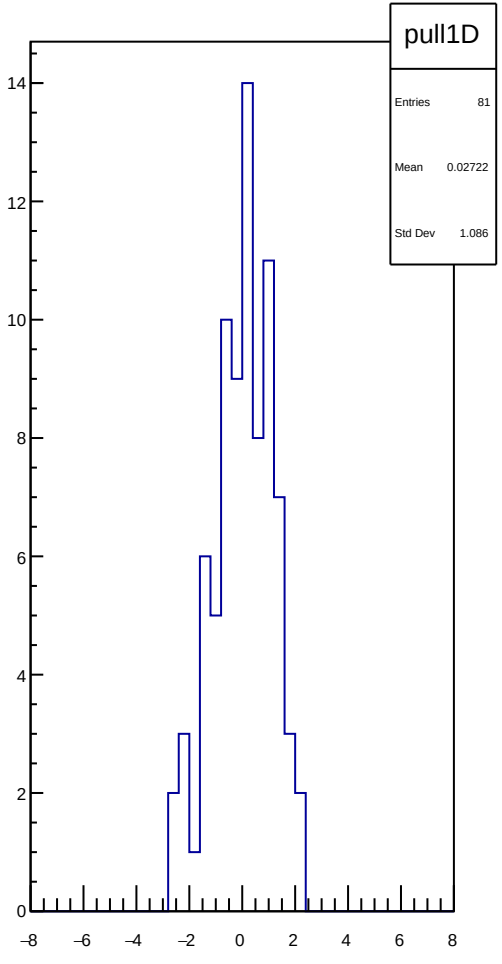

asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 4983 / 80
p0 1260 ± 1.014
1500
1400
1300
1200
1100


eigen_cor_asym_us_avg_mean vs run
χ² / ndf 94.82 / 80
p0 1548 ± 879.5
pull
Entries 81
Mean 438.8
Std Dev 0


pull1D
Entries 81
Mean −0.01079
Std Dev 1.082


eigen_cor_asym_us_avg_rms vs run
χ² / ndf 90.44 / 80
p0 774.1 ± 0.6219
800
790
780
770
760
750


asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 95.53 / 80
p0 −275.3 ± 1433
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −92.42
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 81
Mean 0.02722
Std Dev 1.086
14
12
10
8
6
4
2
0
−8
−6
−4
−2
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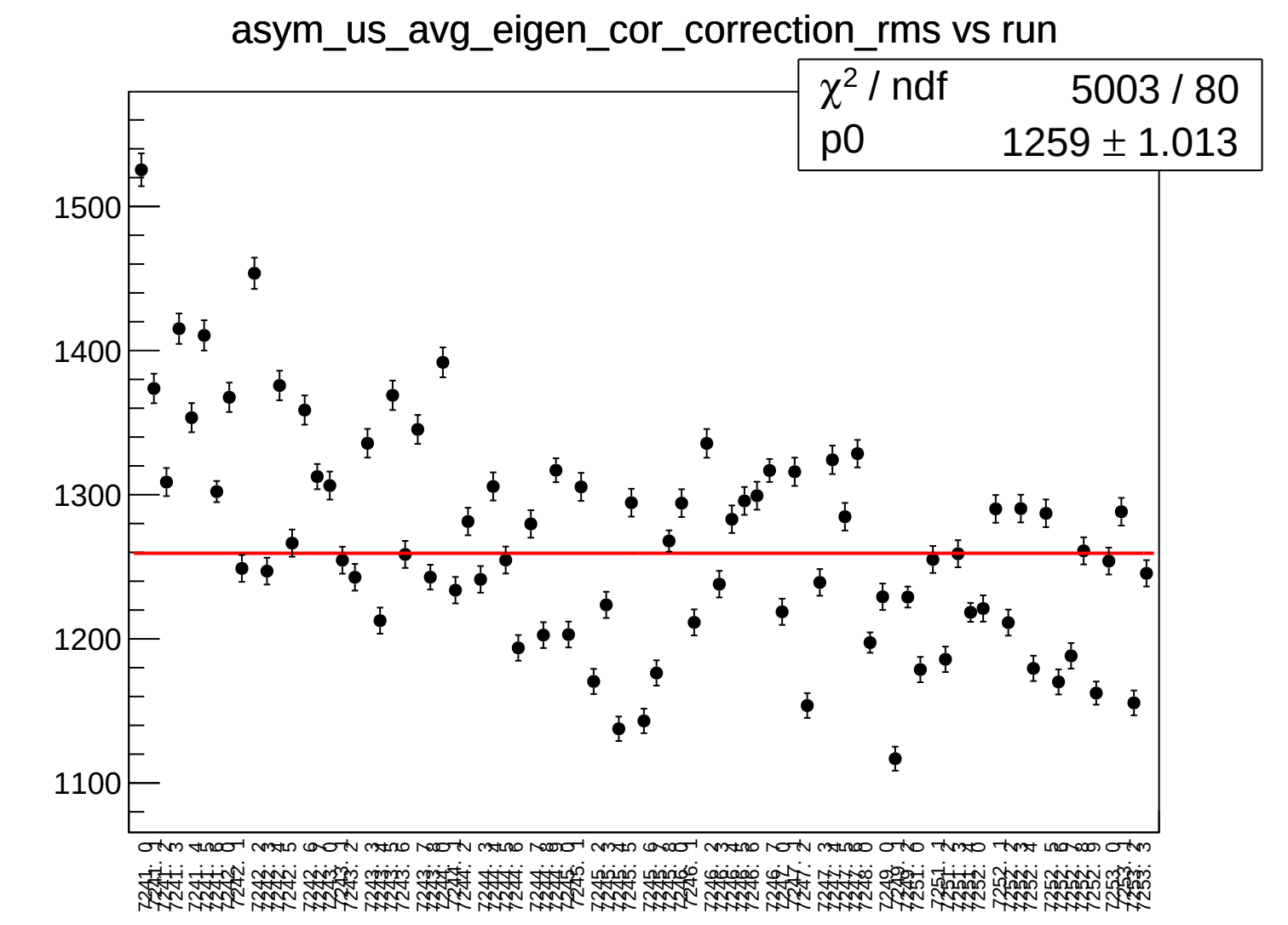
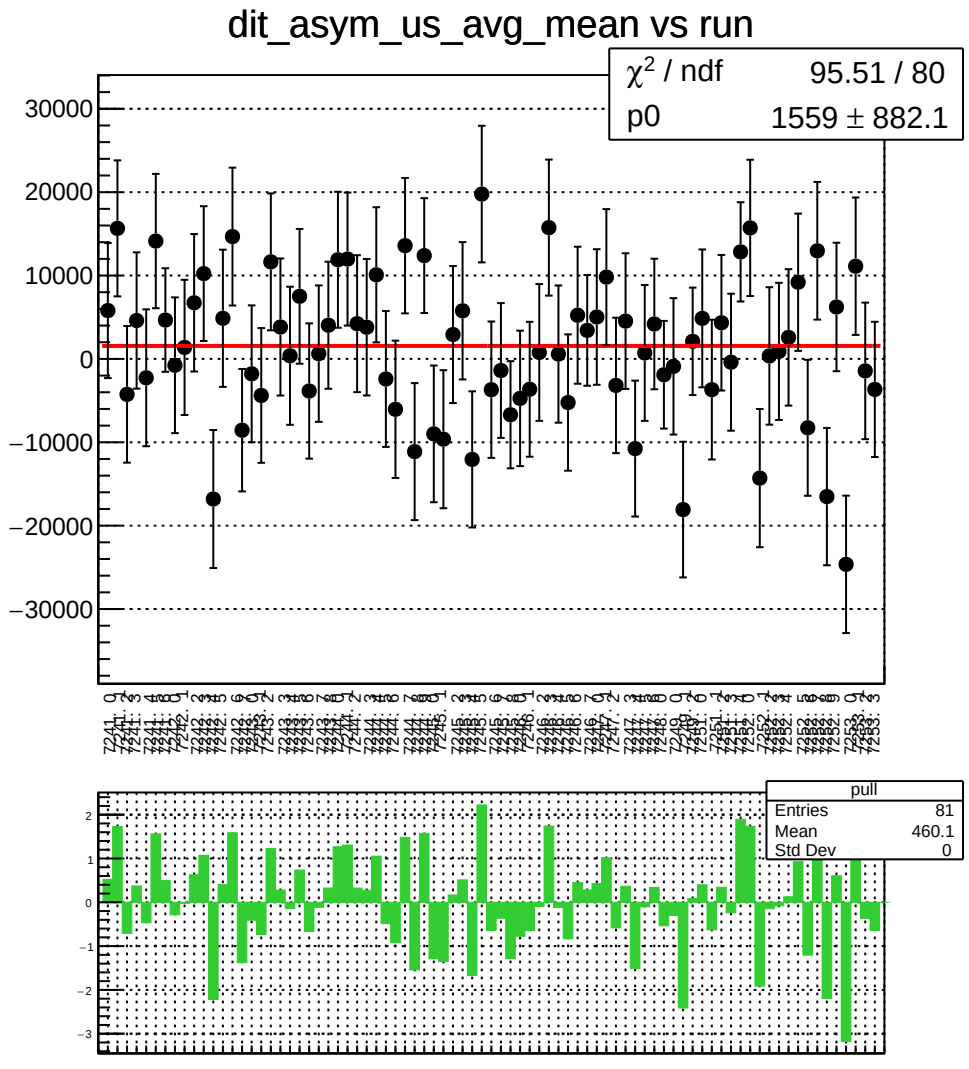
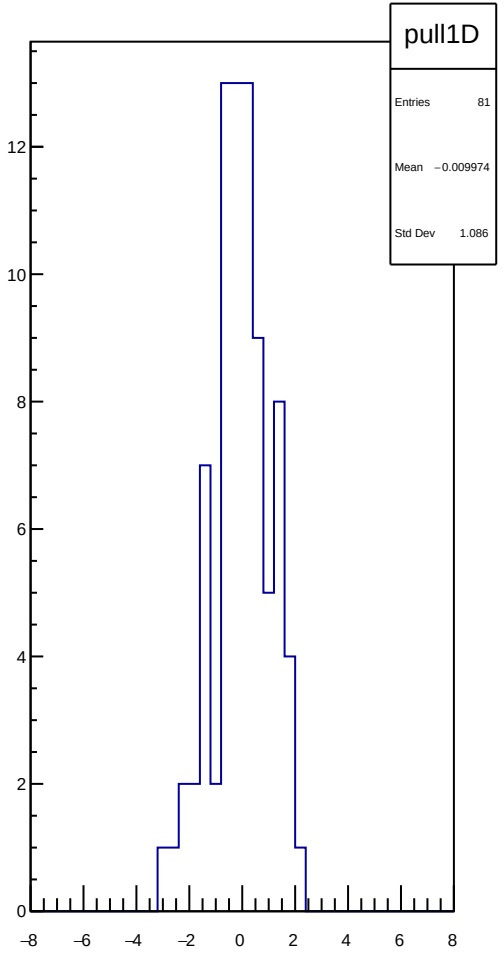
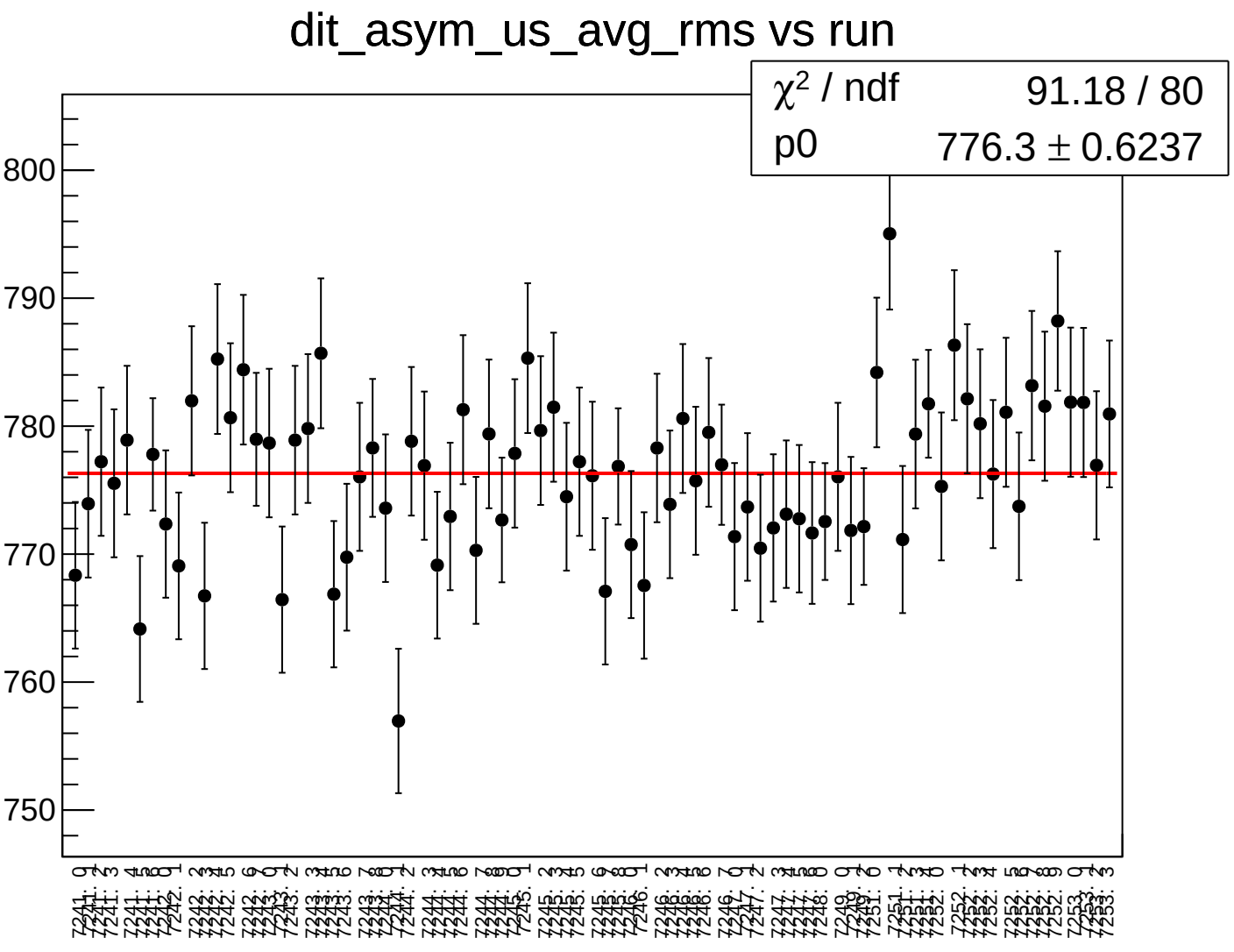
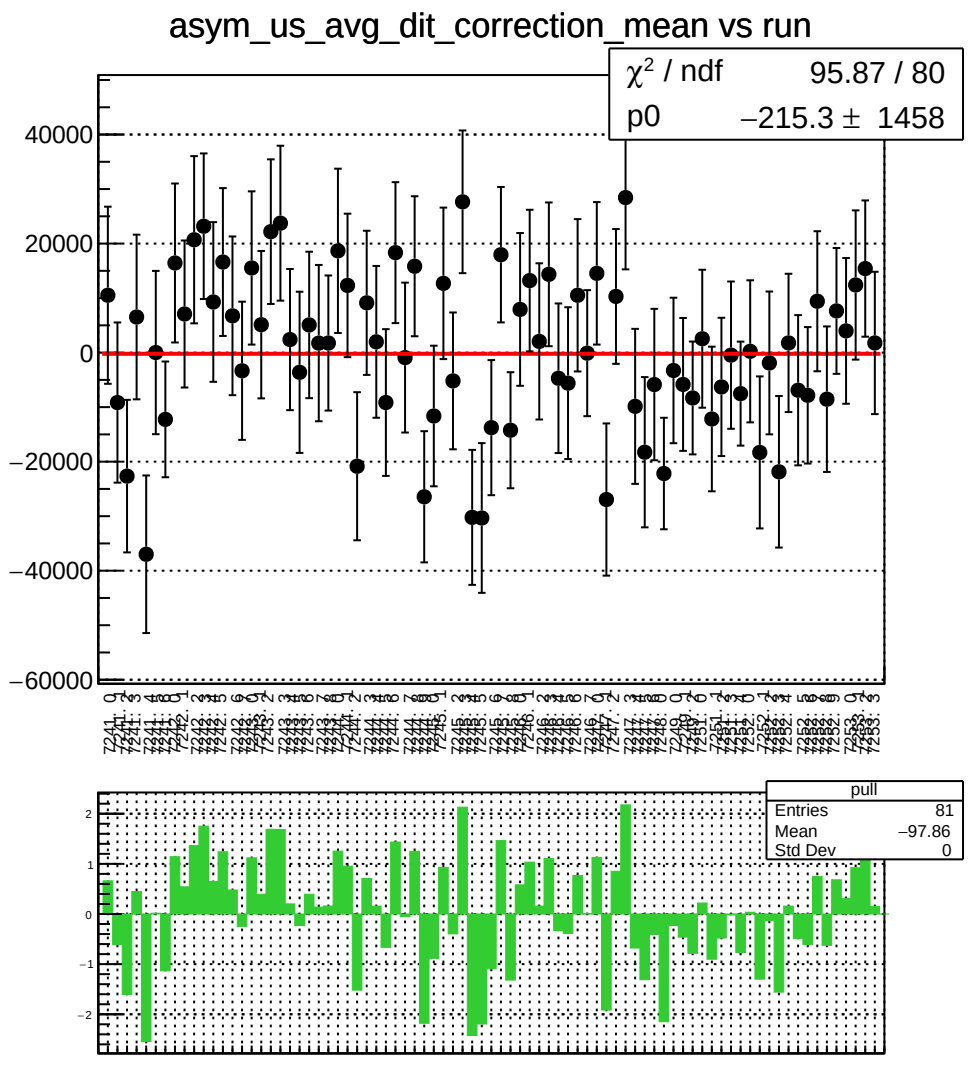
2
4
6
8

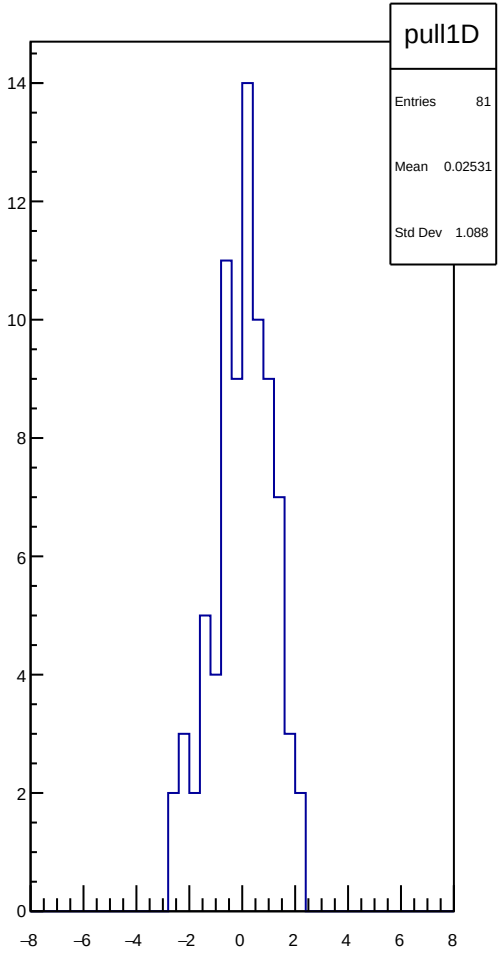

asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 5003 / 80
p0 1259 ± 1.013
1500
1400
1300
1200
1100

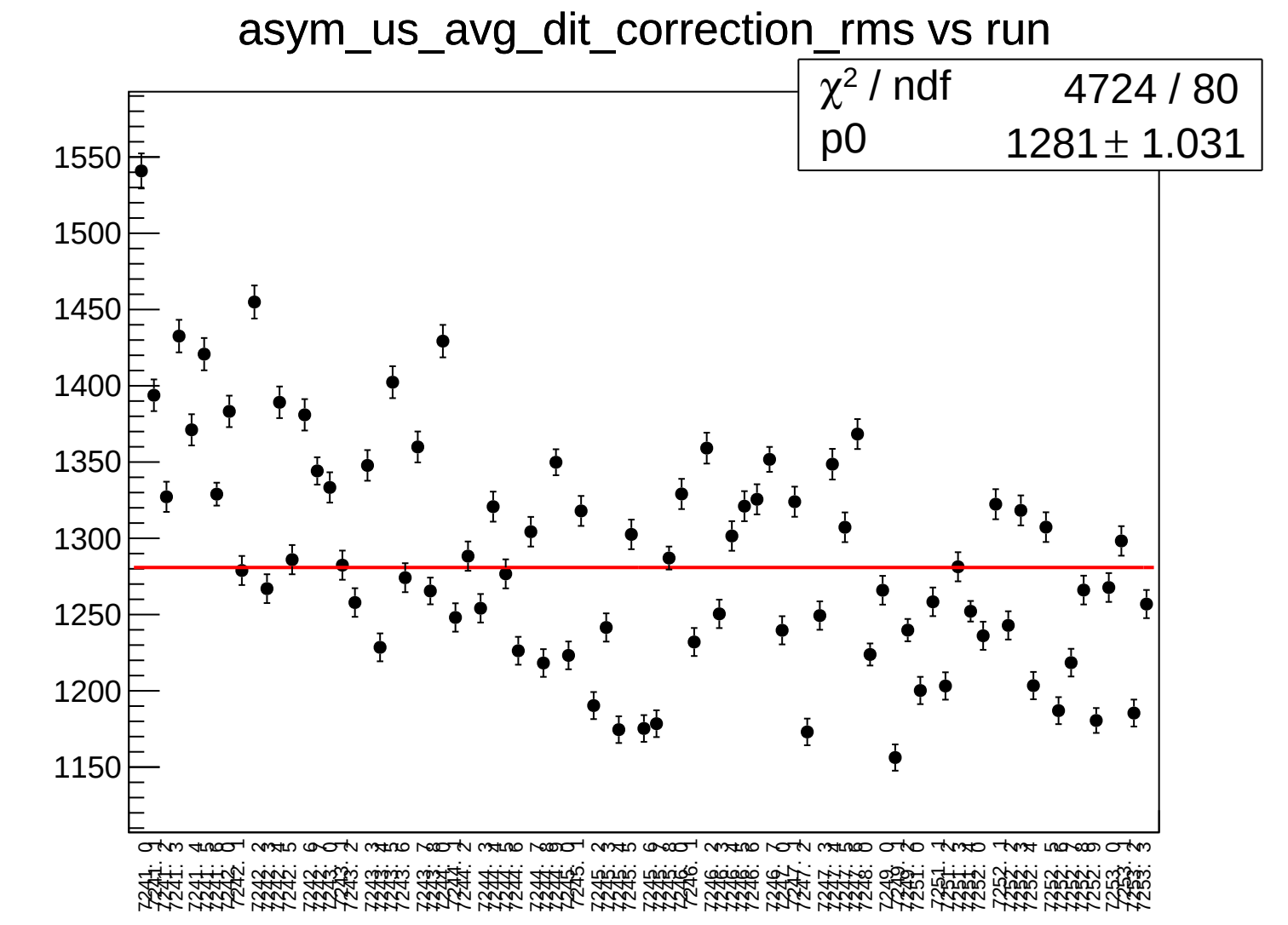

dit_asym_us_avg_mean vs run
χ² / ndf 95.51 / 80
p0 1559 ± 882.1
pull
Entries 81
Mean 460.1
Std Dev 0

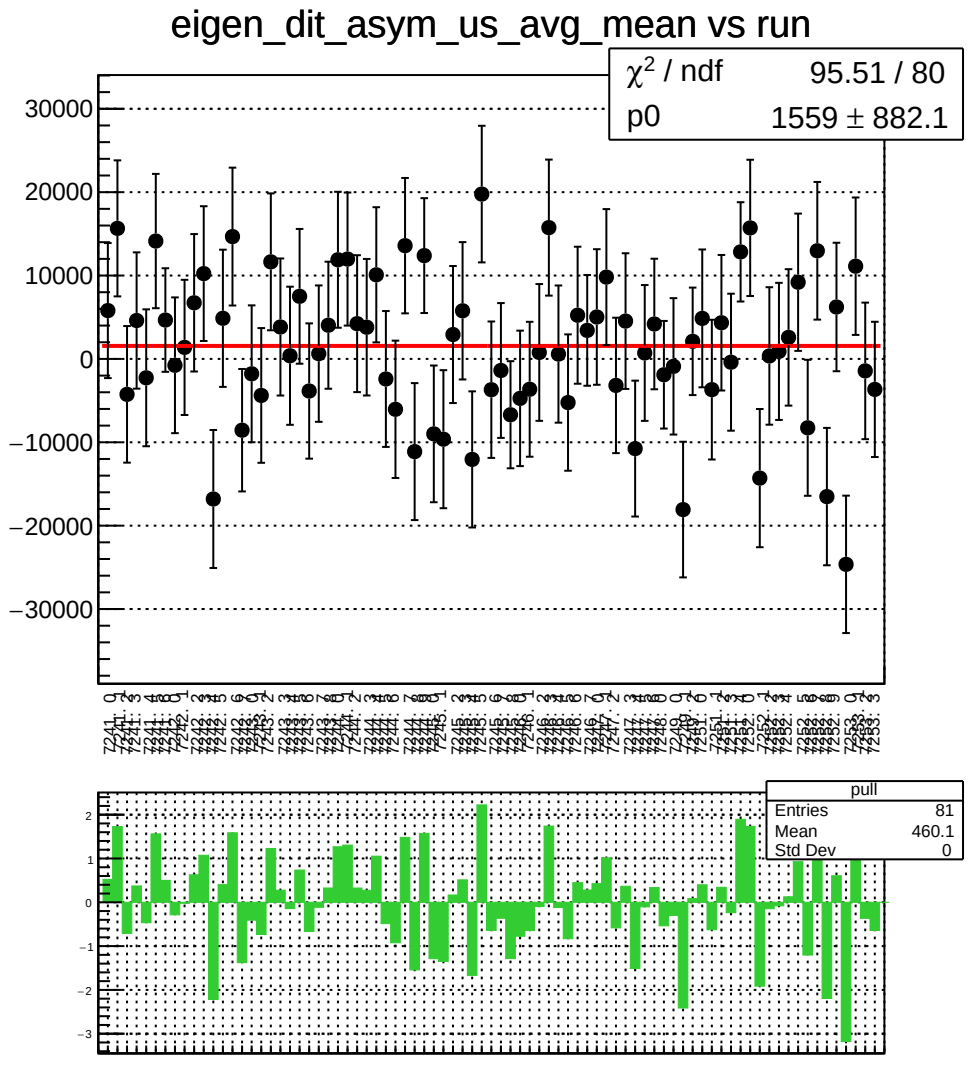

pull1D
Entries 81
Mean −0.009974
Std Dev 1.086

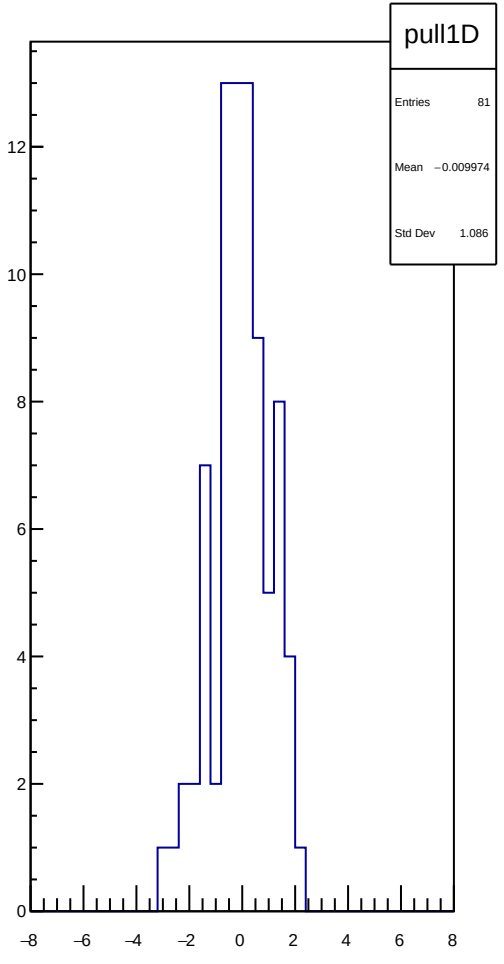

dit_asym_us_avg_rms vs run
χ^2 / ndf 91.18 / 80
p0 776.3 ± 0.6237
800
790
780
770
760
750

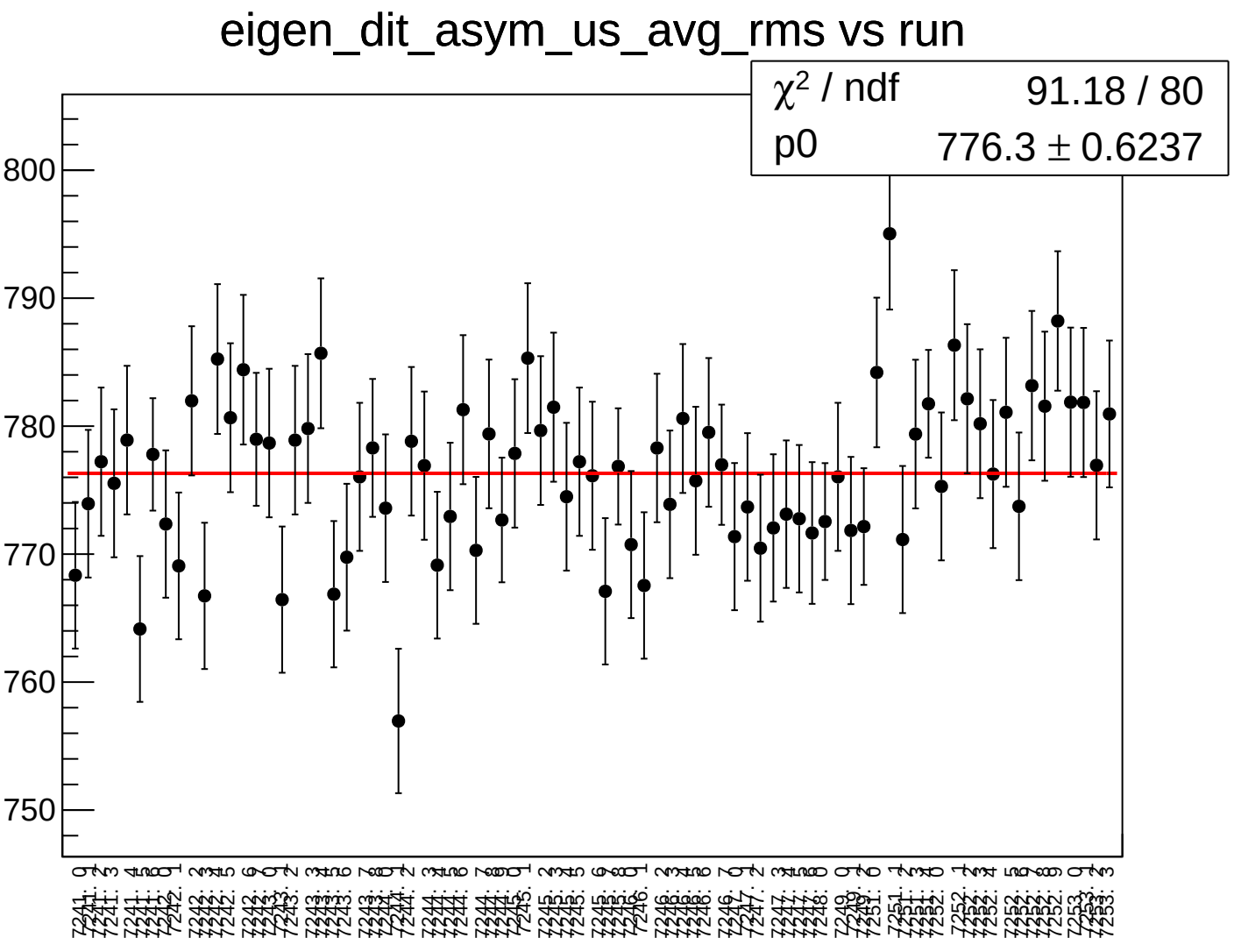

asym_us_avg_dit_correction_mean vs run
χ² / ndf 95.87 / 80
p0 −215.3 ± 1458
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −97.86
Std Dev 0
2
1
0
−1
−2

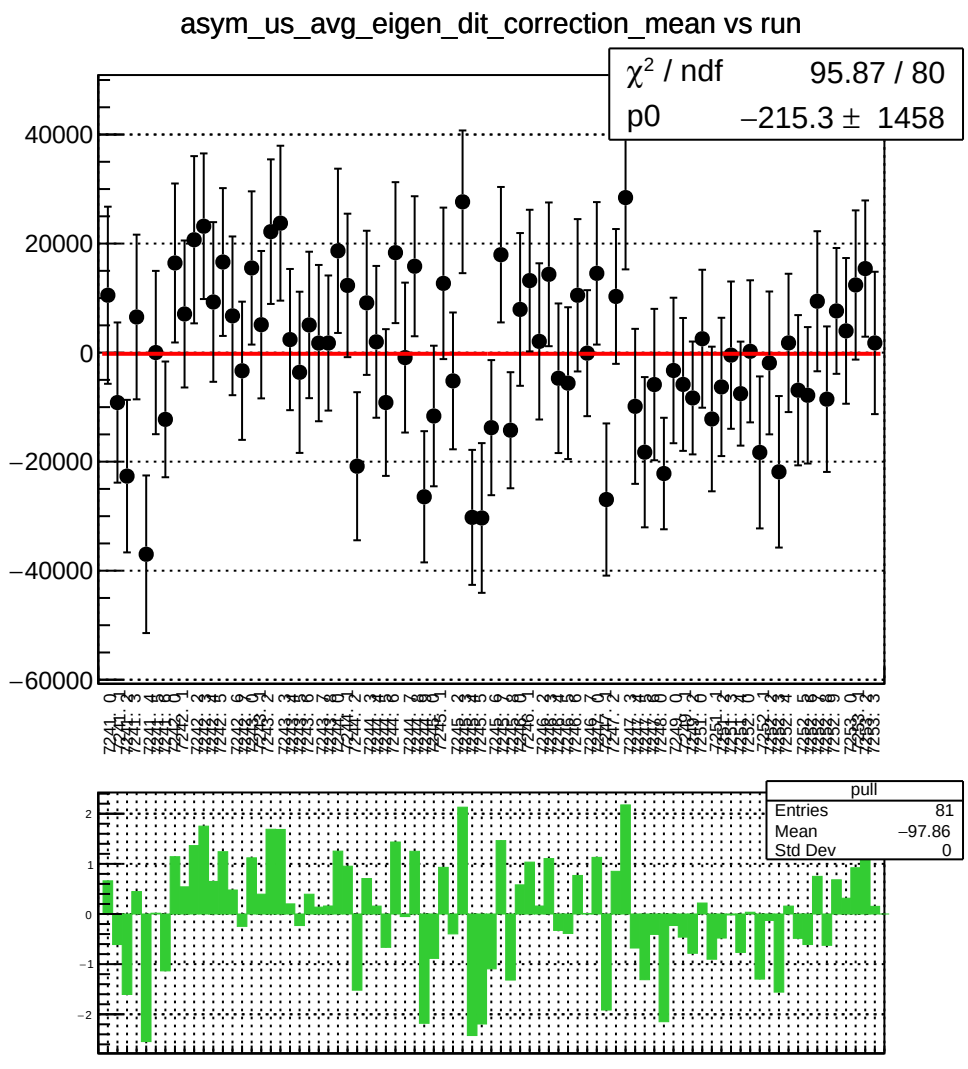

pull1D
Entries 81
Mean 0.02531
Std Dev 1.088
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

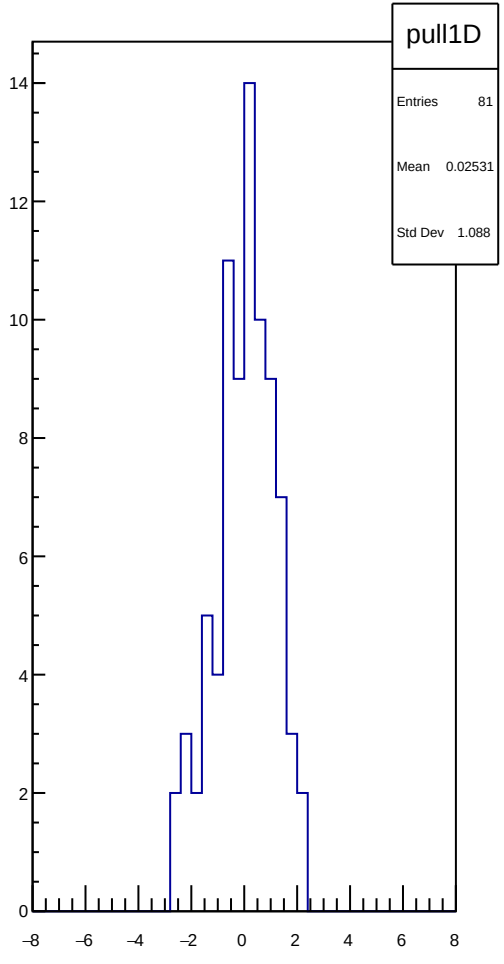

asym_us_avg_dit_correction_rms vs run
χ² / ndf 4724 / 80
p0 1281 ± 1.031
1550
1500
1450
1400
1350
1300
1250
1200
1150

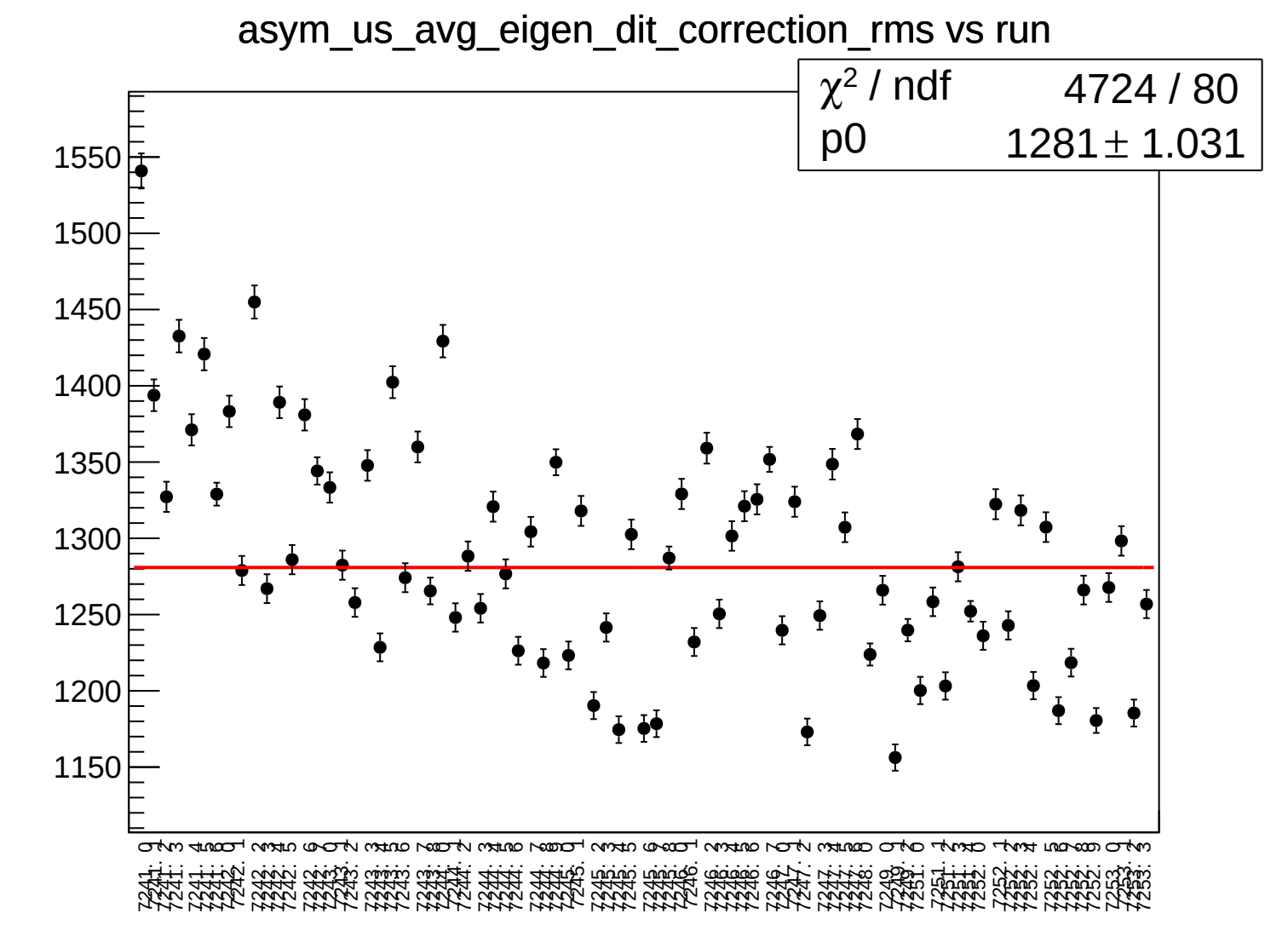

eigen_dit_asym_us_avg_mean vs run
χ² / ndf 95.51 / 80
p0 1559 ± 882.1
pull
Entries 81
Mean 460.1
Std Dev 0

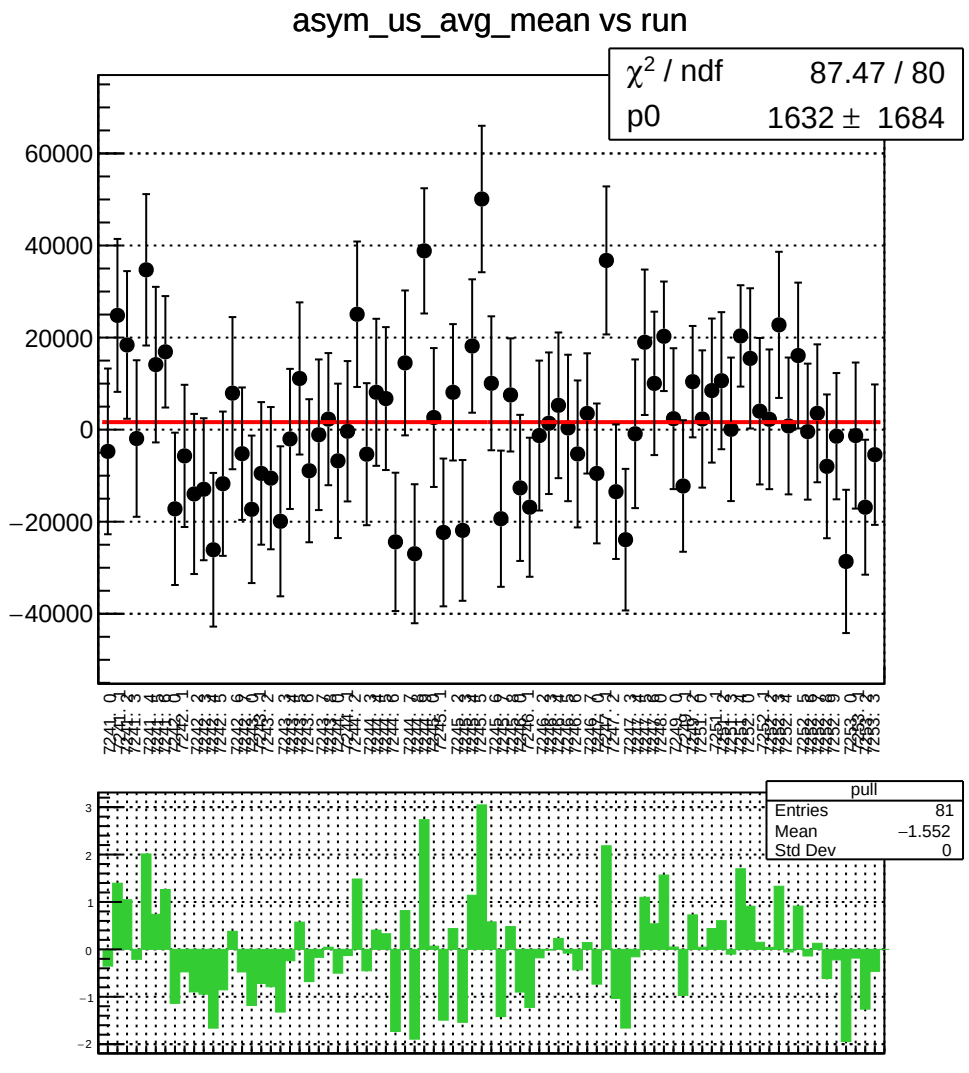

pull1D
Entries 81
Mean −0.009974
Std Dev 1.086

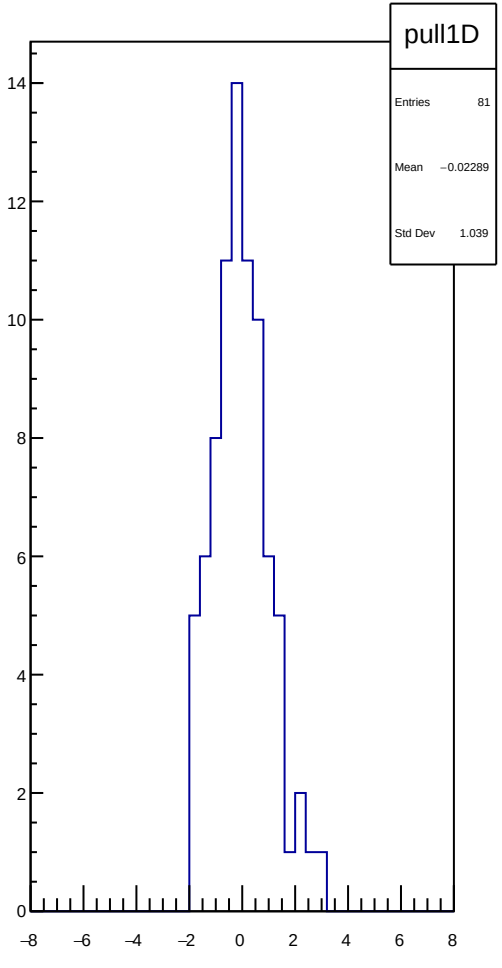

eigen_dit_asym_us_avg_rms vs run
χ² / ndf 91.18 / 80
p0 776.3 ± 0.6237
800
790
780
770
760
750

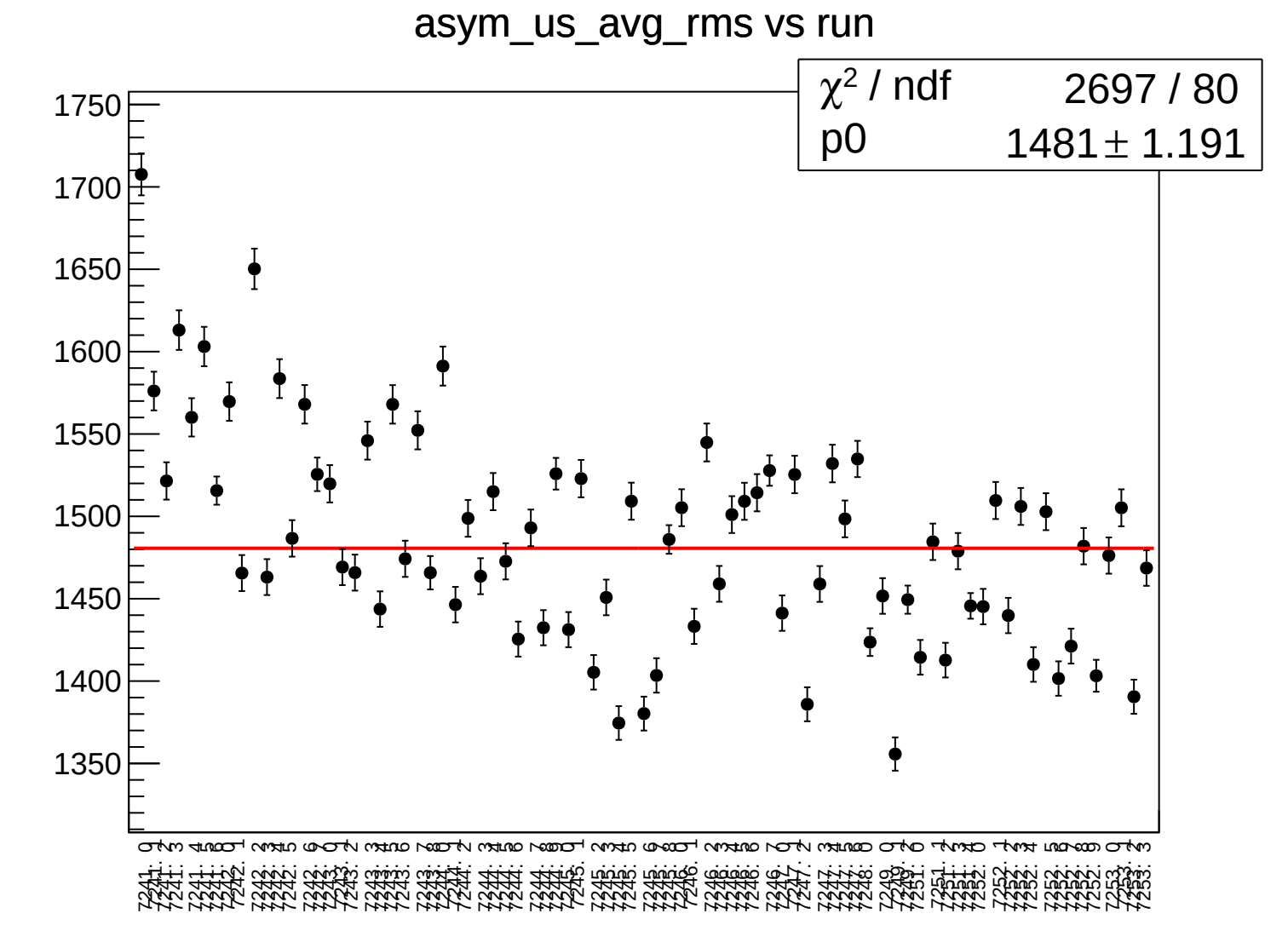

asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 95.87 / 80
p0 −215.3 ± 1458
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −97.86
Std Dev 0
2
1
0
−1
−2

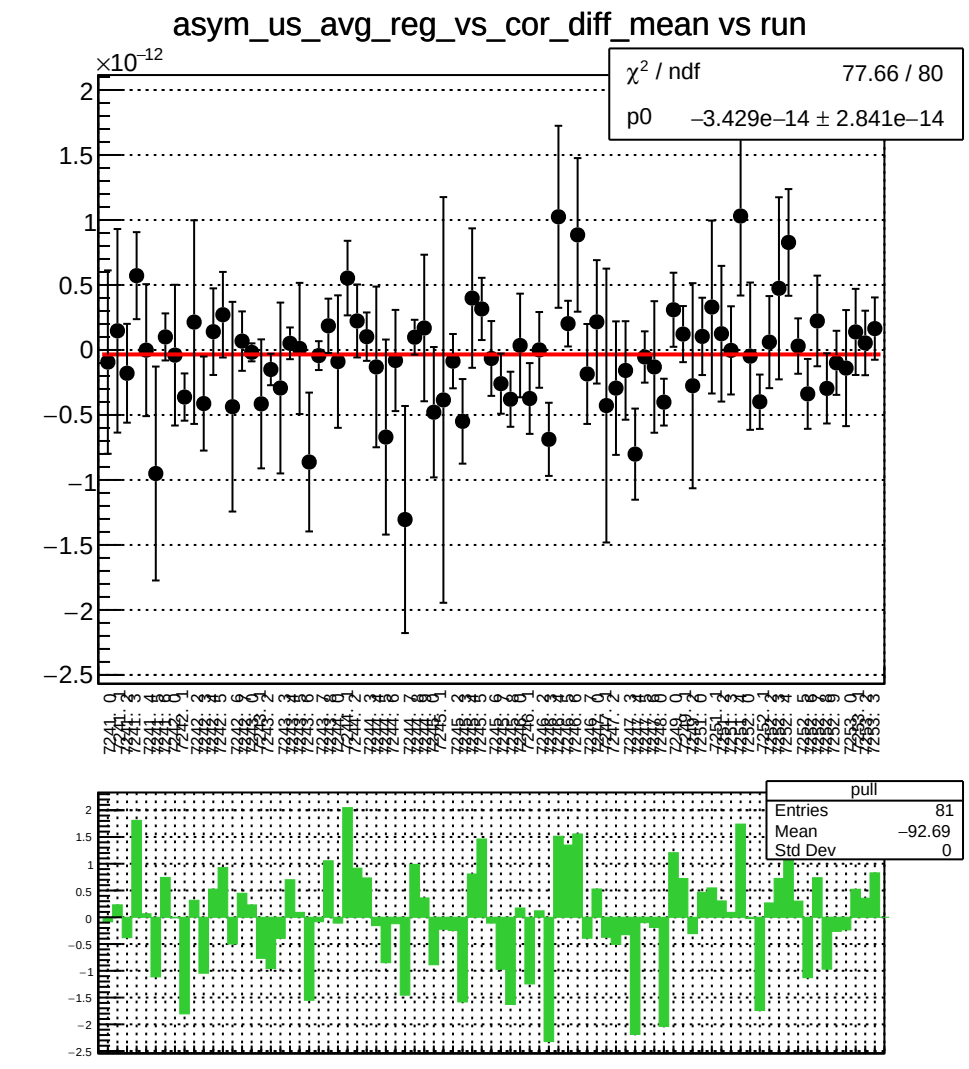

pull1D
Entries 81
Mean 0.02531
Std Dev 1.088
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

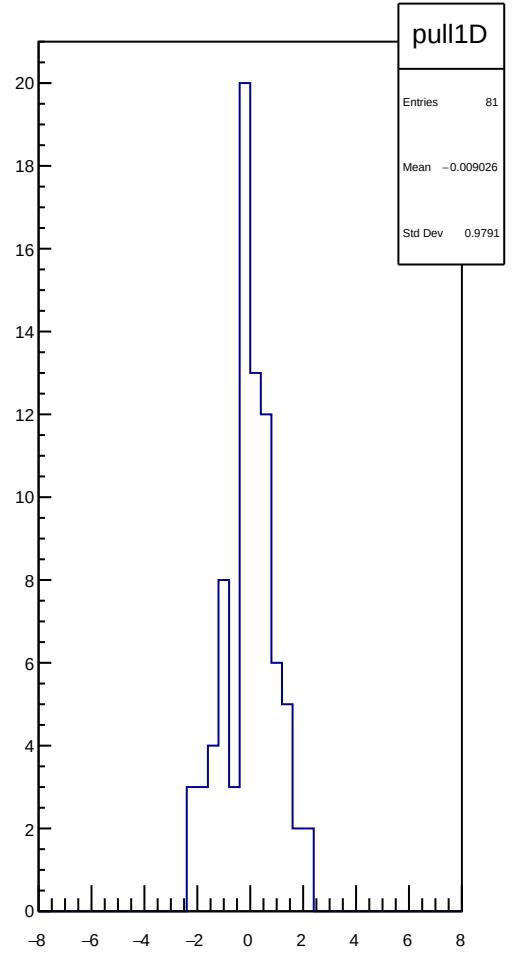

asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 4724 / 80
p0 1281 ± 1.031
1550
1500
1450
1400
1350
1300
1250
1200
1150

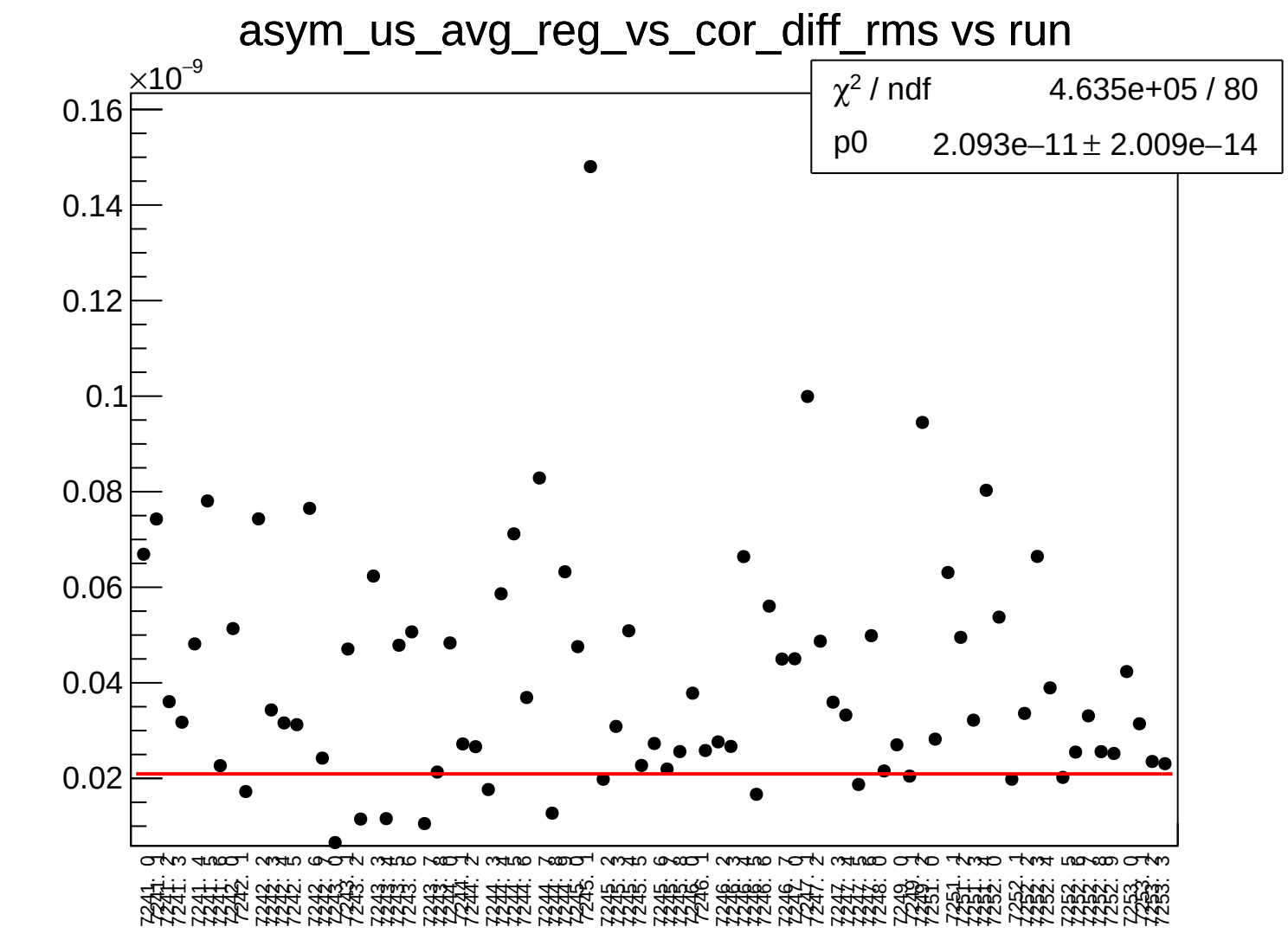

asym_us_avg_mean vs run
χ² / ndf 87.47 / 80
p0 1632 ± 1684
60000
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −1.552
Std Dev 0
3
2
1
0
−1
−2

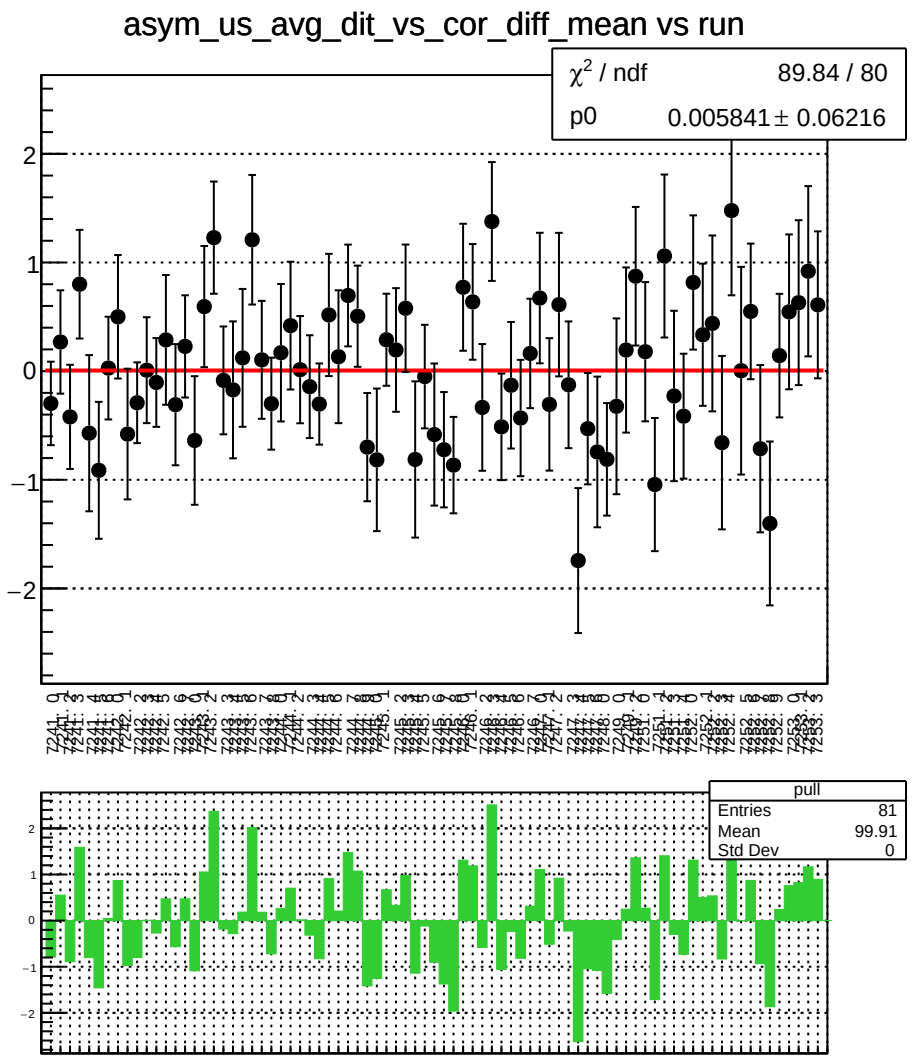

pull1D
Entries 81
Mean −0.02289
Std Dev 1.039
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

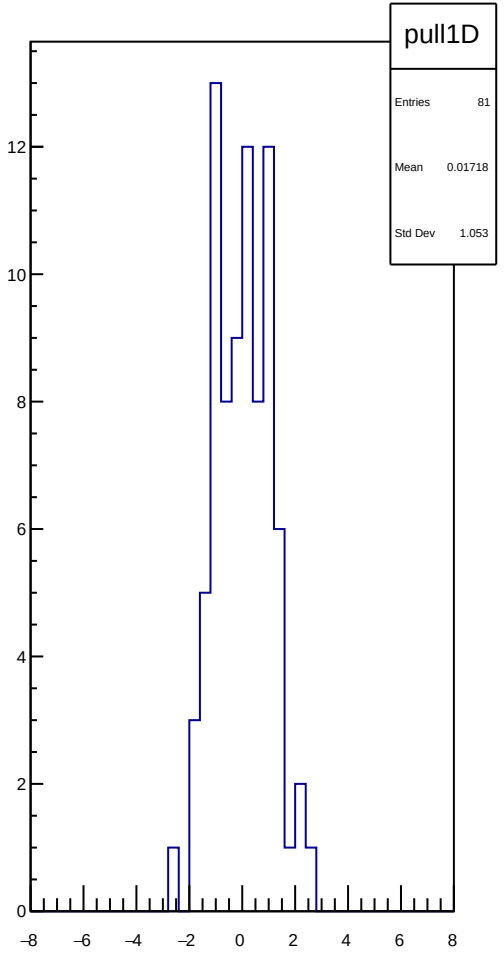

asym_us_avg_rms vs run
χ² / ndf 2697 / 80
p0 1481 ± 1.191
1750
1700
1650
1600
1550
1500
1450
1400
1350

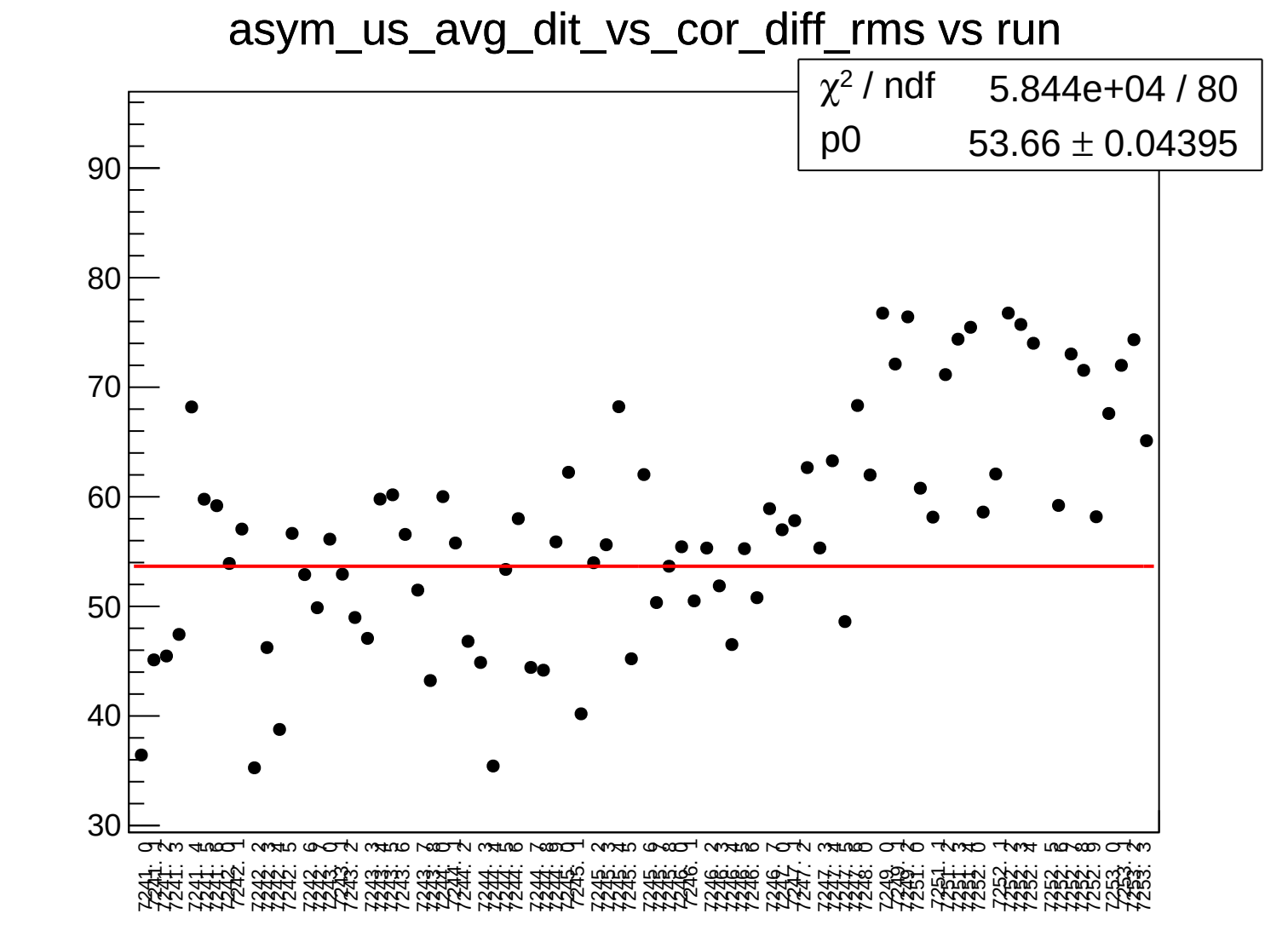

asym_us_avg_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.66 / 80
p0 −3.429e−14 ± 2.841e−14
pull
Entries 81
Mean −92.69
Std Dev 0

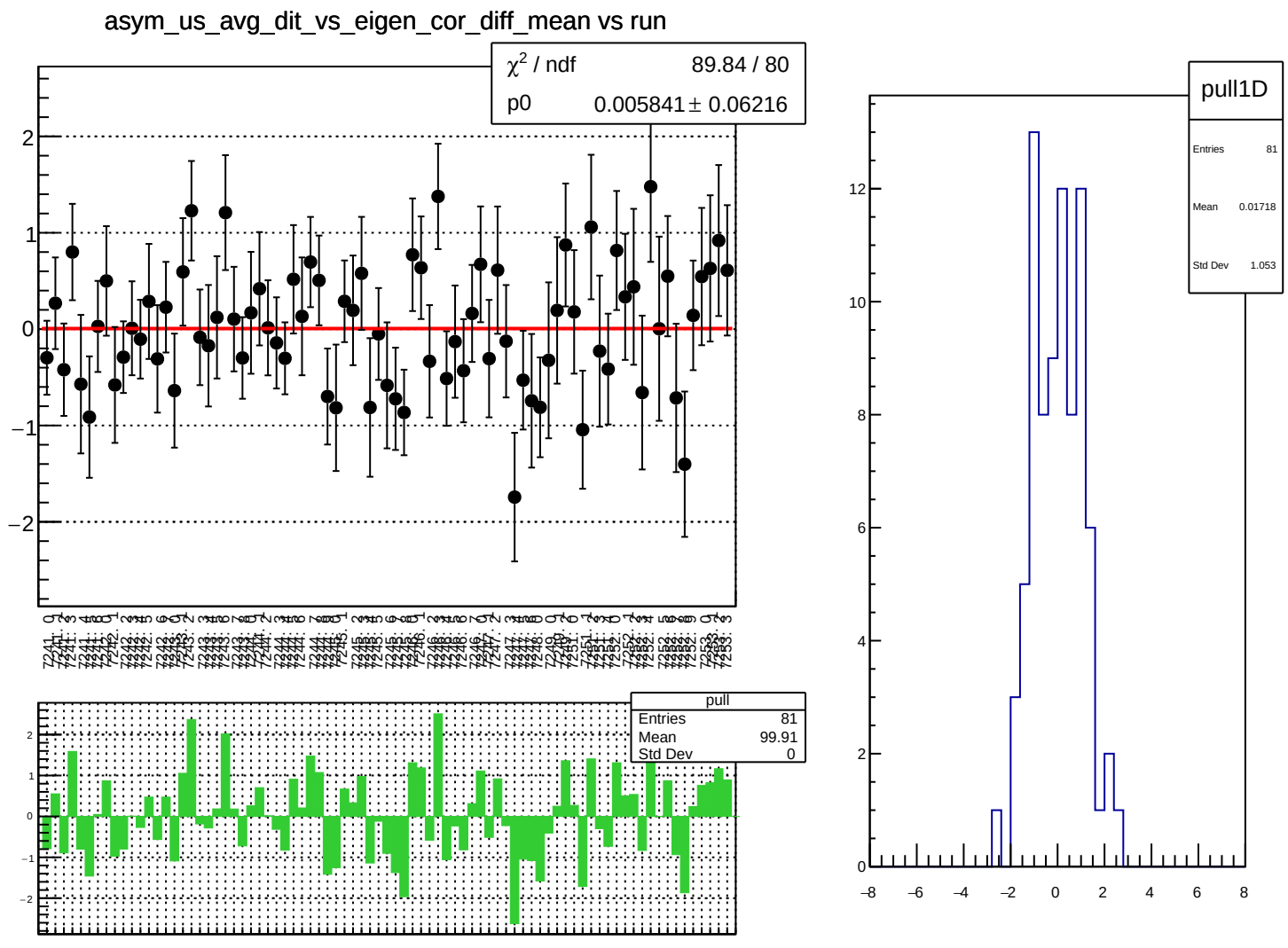

pull1D
Entries 81
Mean −0.009026
Std Dev 0.9791

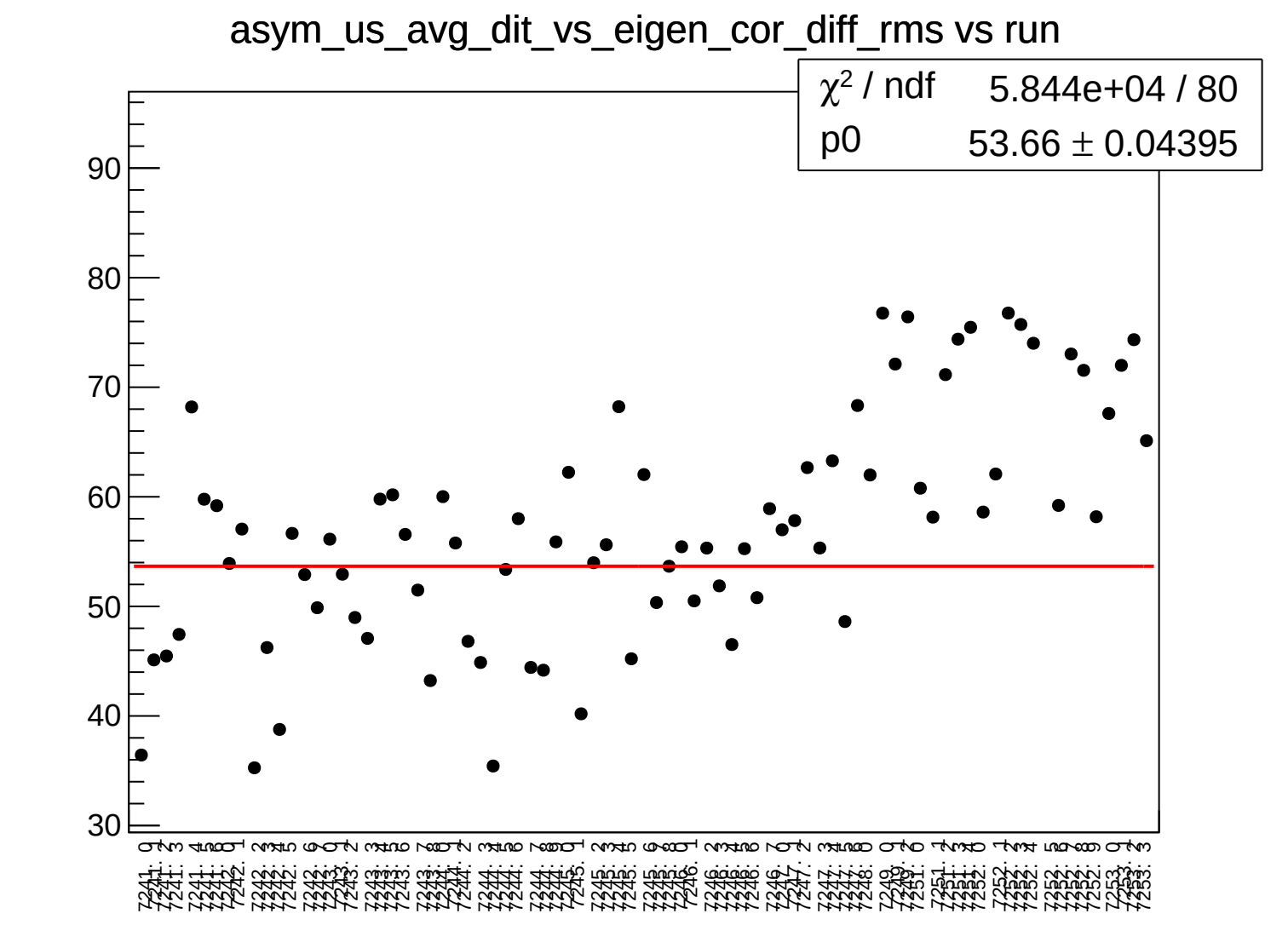

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.635e+05 / 80
p0 2.093e−11 ± 2.009e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

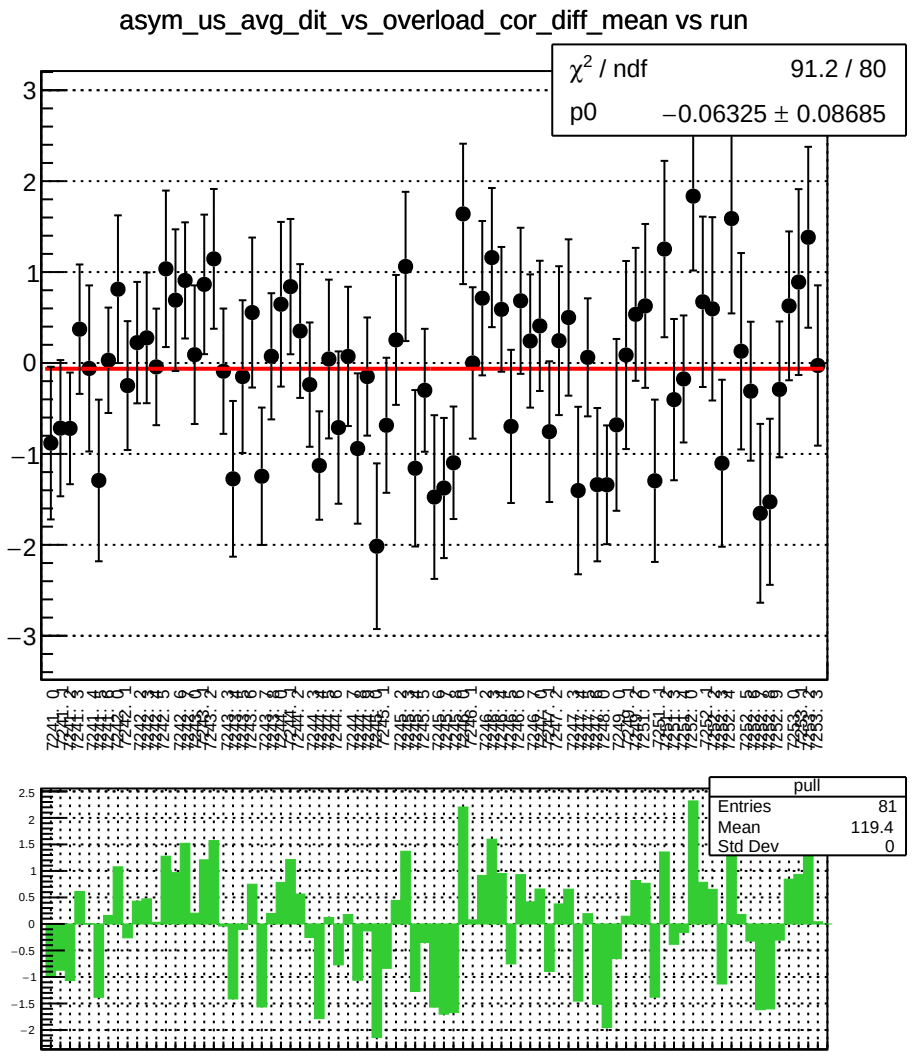

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 89.84 / 80
p0 0.005841 ± 0.06216
pull
Entries 81
Mean 99.91
Std Dev 0

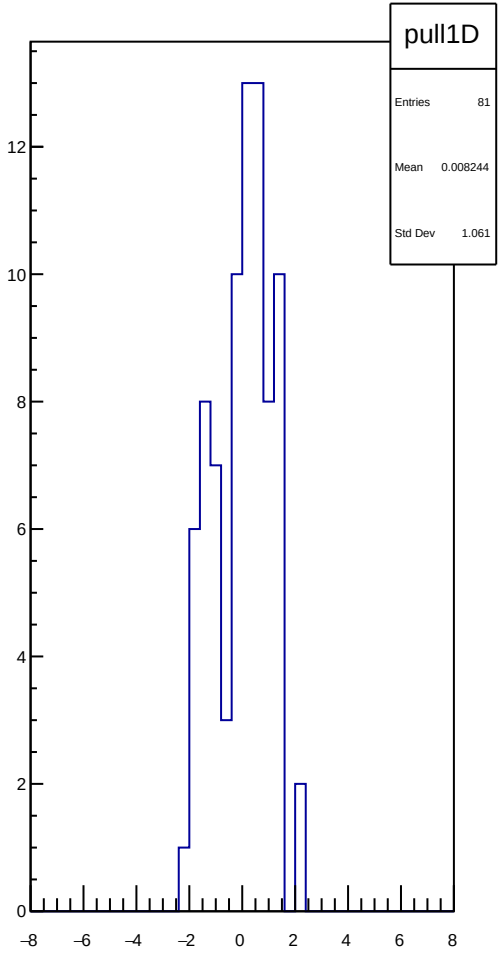

pull1D
Entries 81
Mean 0.01718
Std Dev 1.053

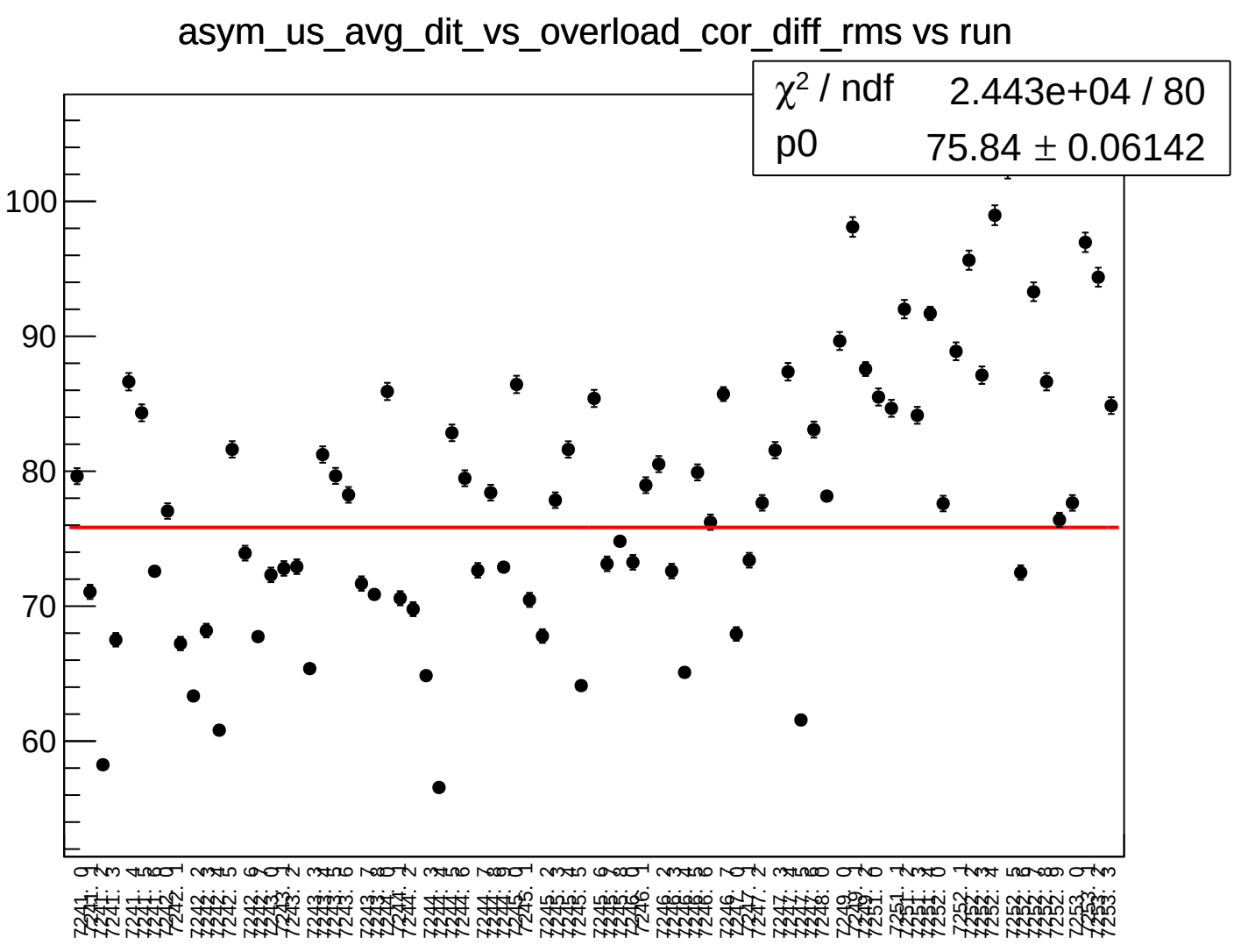

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.844e+04 / 80
p0 53.66 ± 0.04395
90
80
70
60
50
40
30

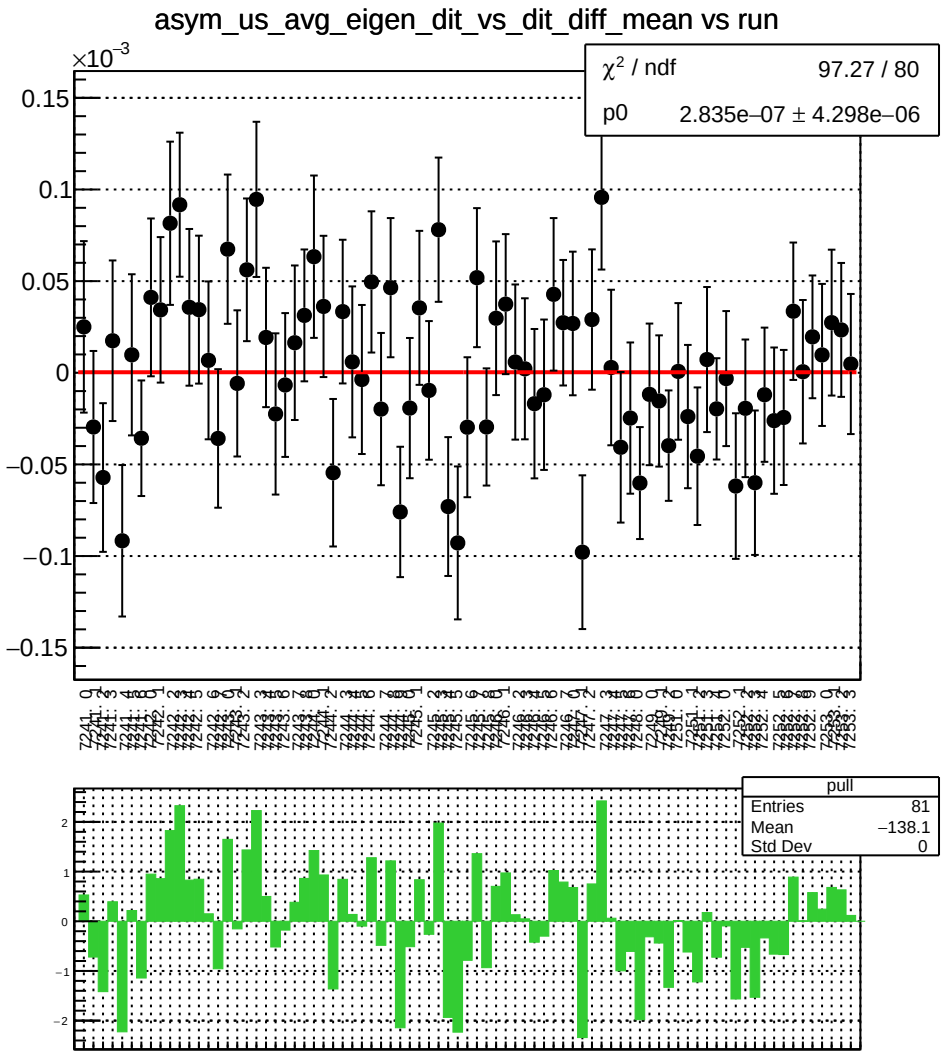

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.84 / 80
p0 0.005841 ± 0.06216
pull
Entries 81
Mean 99.91
Std Dev 0
pull1D
Entries 81
Mean 0.01718
Std Dev 1.053

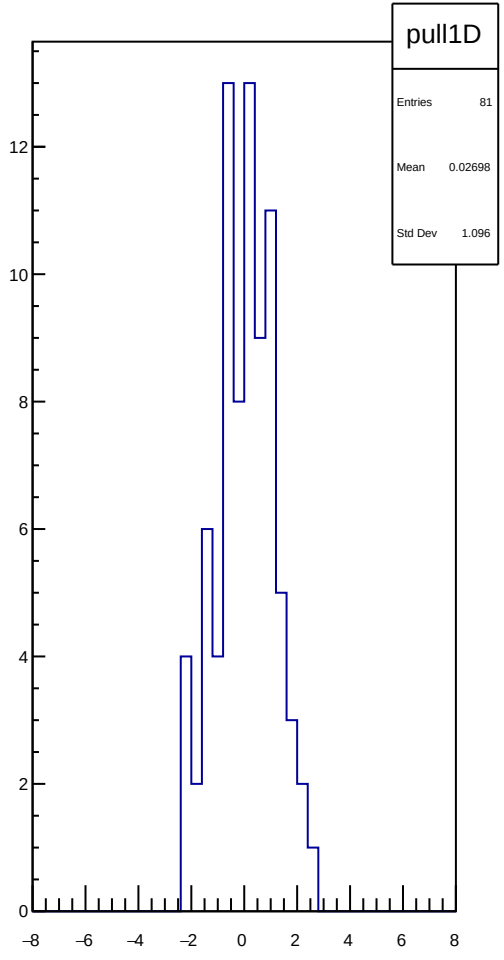

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 5.844e+04 / 80
p0 53.66 ± 0.04395
90
80
70
60
50
40
30

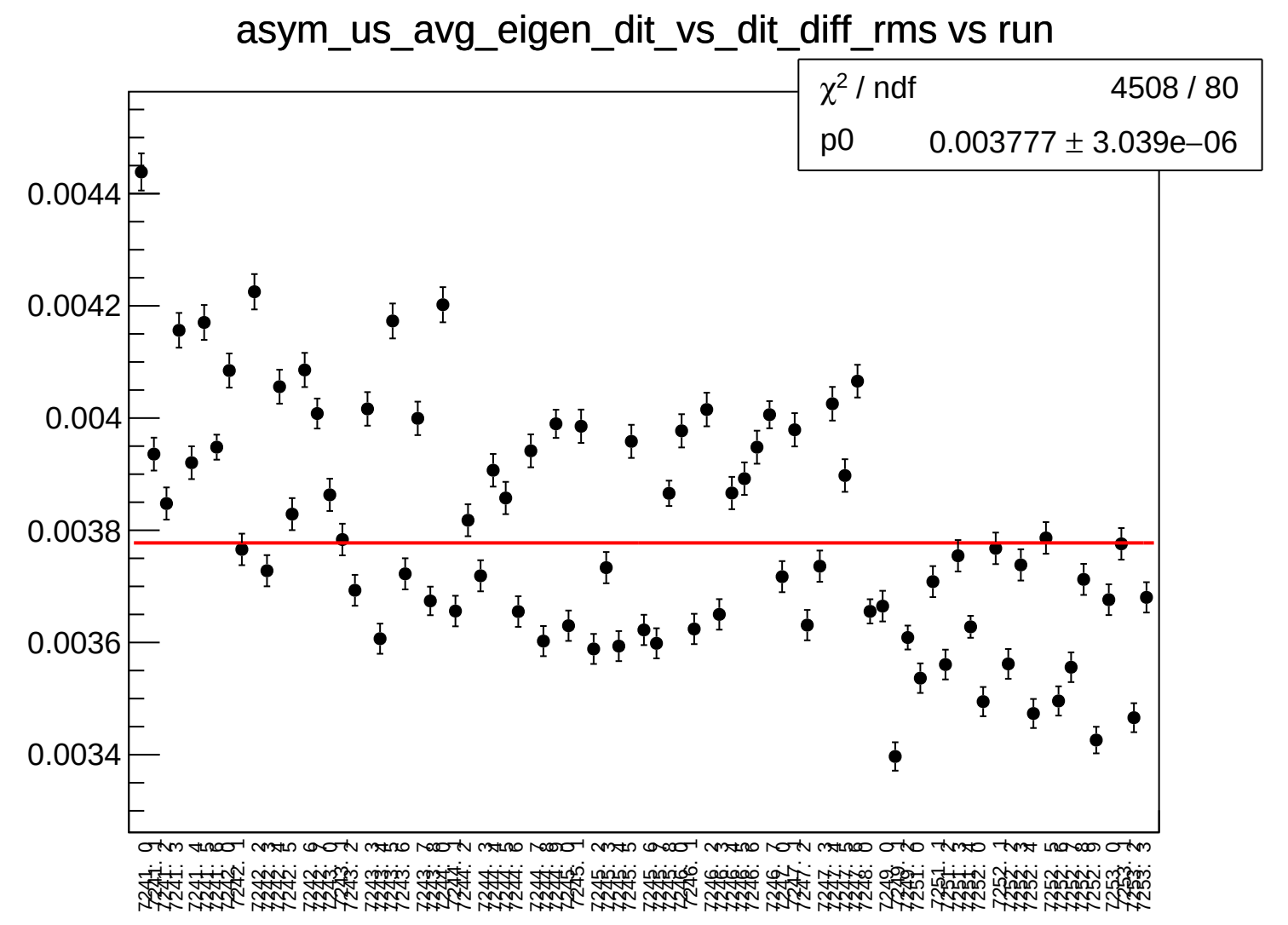

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 91.2 / 80
p0 −0.06325 ± 0.08685
pull
Entries 81
Mean 119.4
Std Dev 0

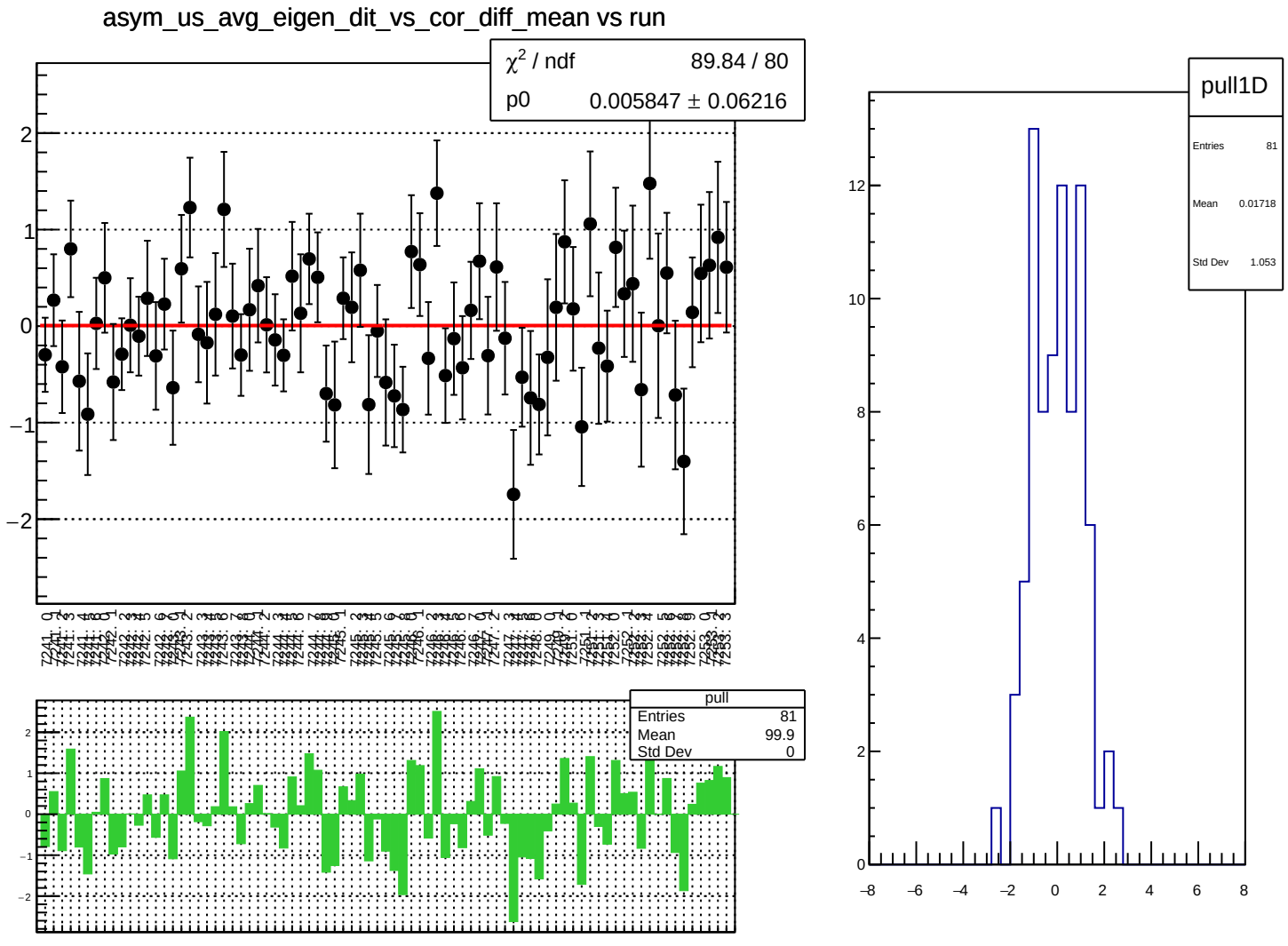

pull1D
Entries 81
Mean 0.008244
Std Dev 1.061

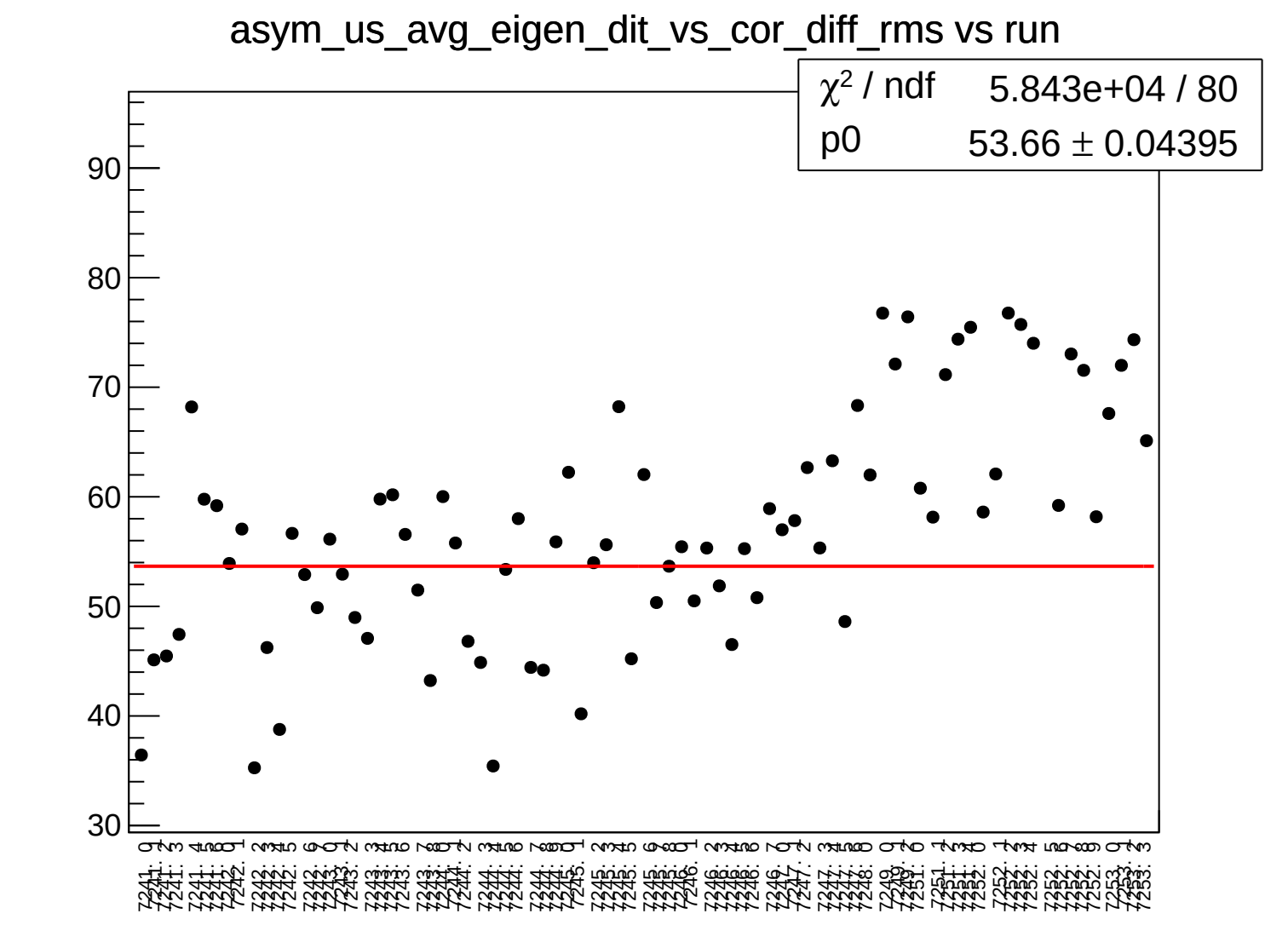

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.443e+04 / 80
p0 75.84 ± 0.06142
100
90
80
70
60

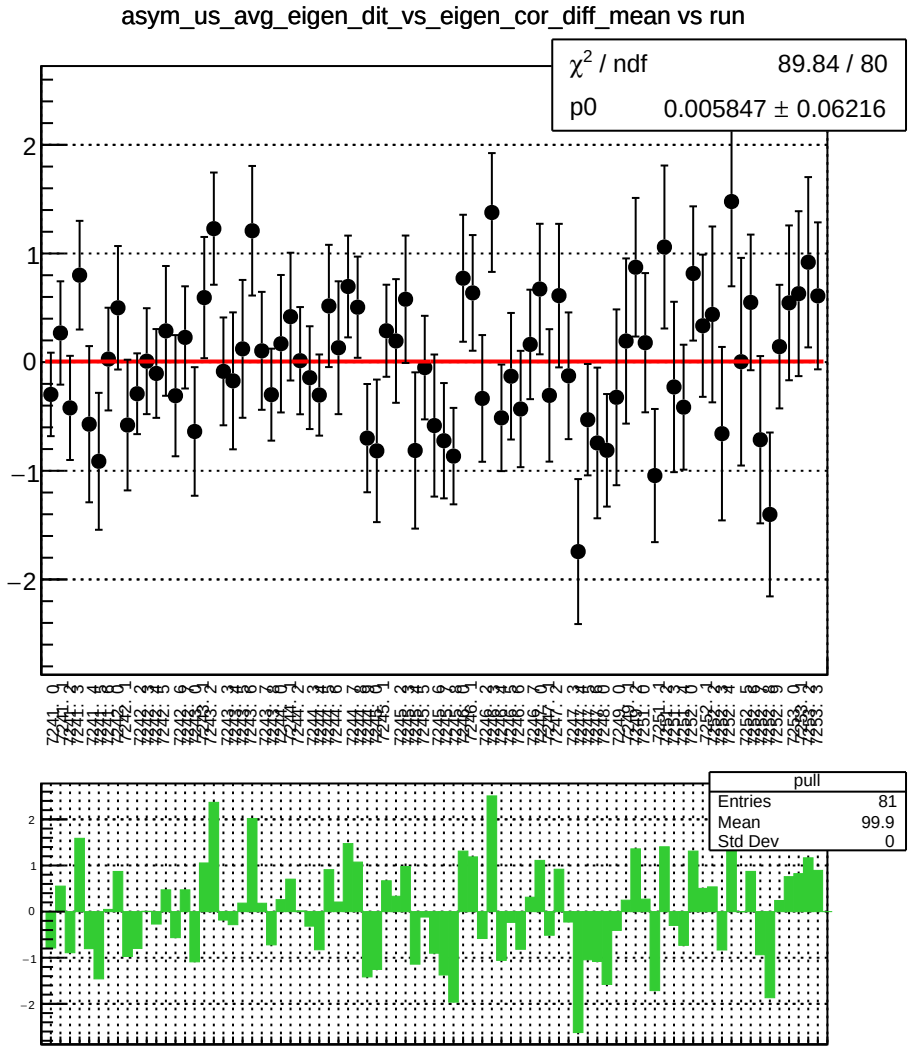

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.27 / 80
p0 2.835e−07 ± 4.298e−06
pull
Entries 81
Mean −138.1
Std Dev 0

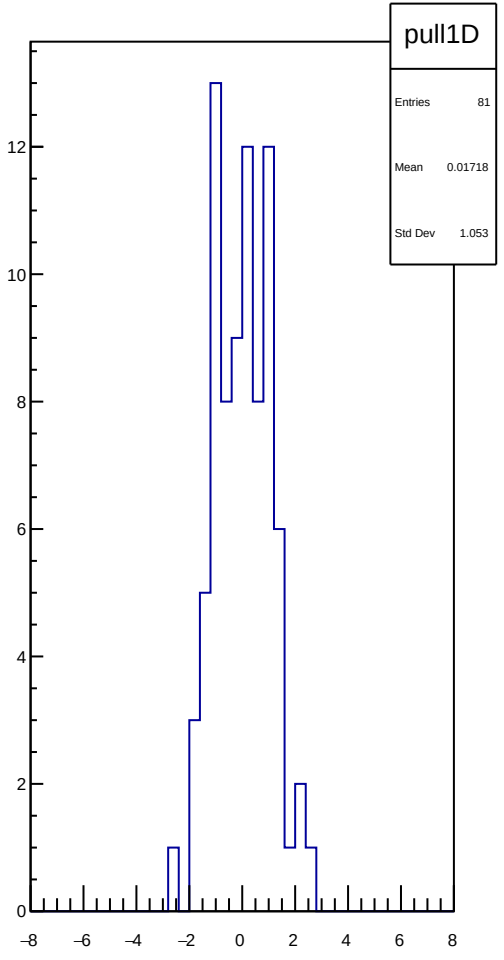

pull1D
Entries 81
Mean 0.02698
Std Dev 1.096

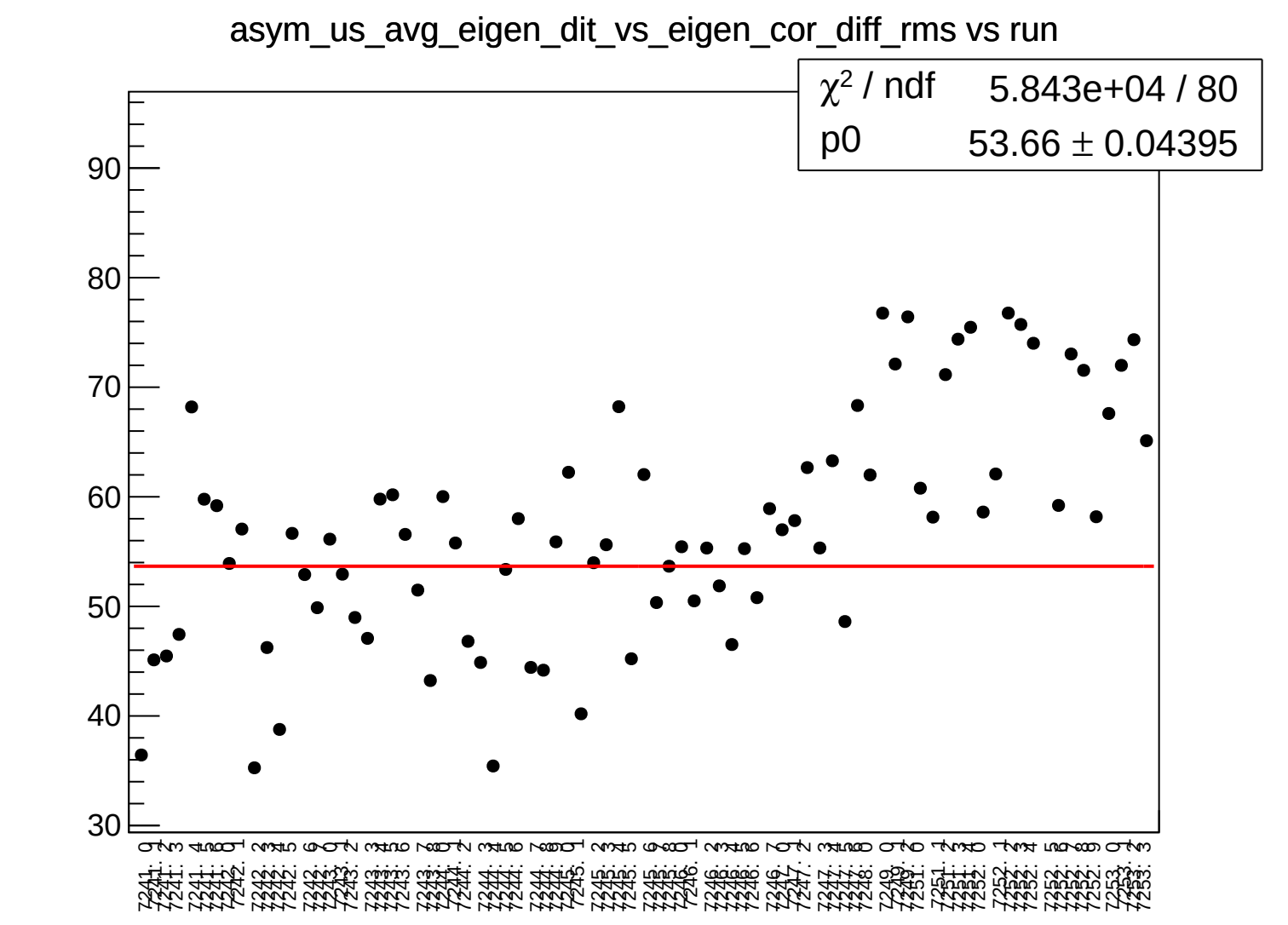

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4508 / 80
p0 0.003777 ± 3.039e−06
0.0044
0.0042
0.004
0.0038
0.0036
0.0034

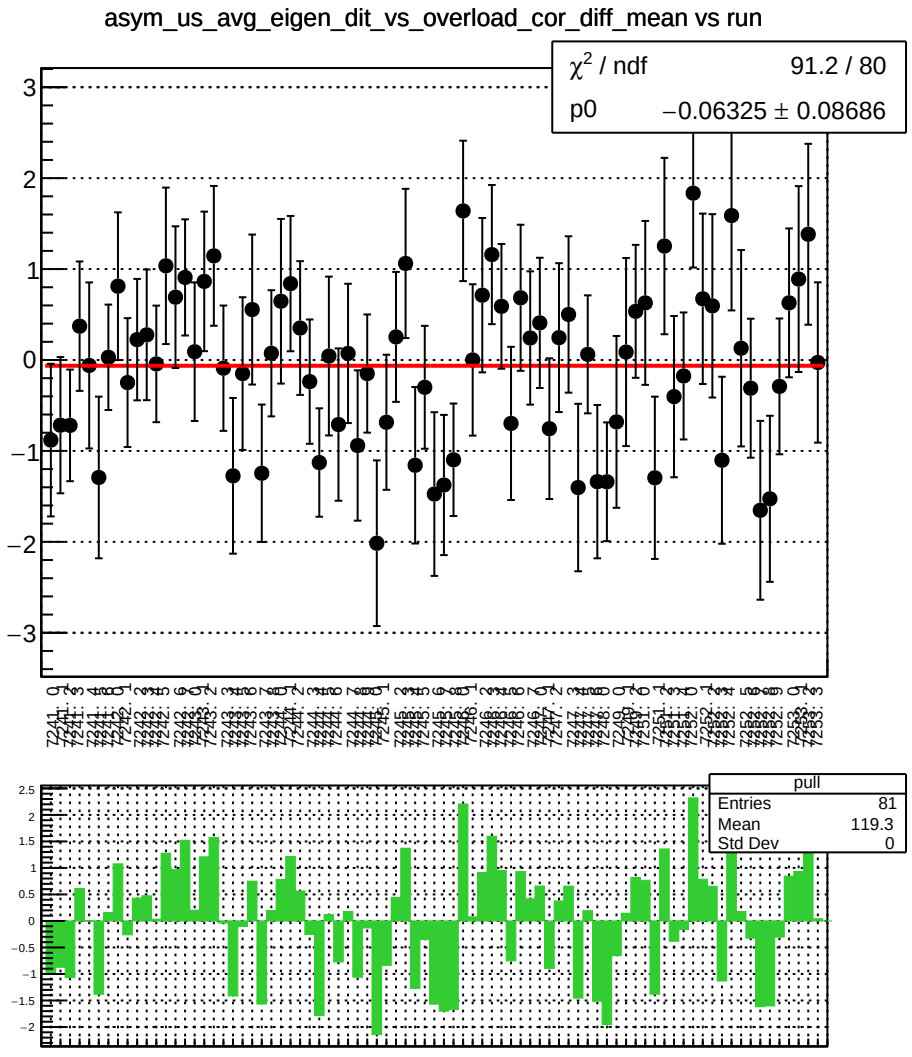

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.84 / 80
p0 0.005847 ± 0.06216
pull
Entries 81
Mean 99.9
Std Dev 0
pull1D
Entries 81
Mean 0.01718
Std Dev 1.053

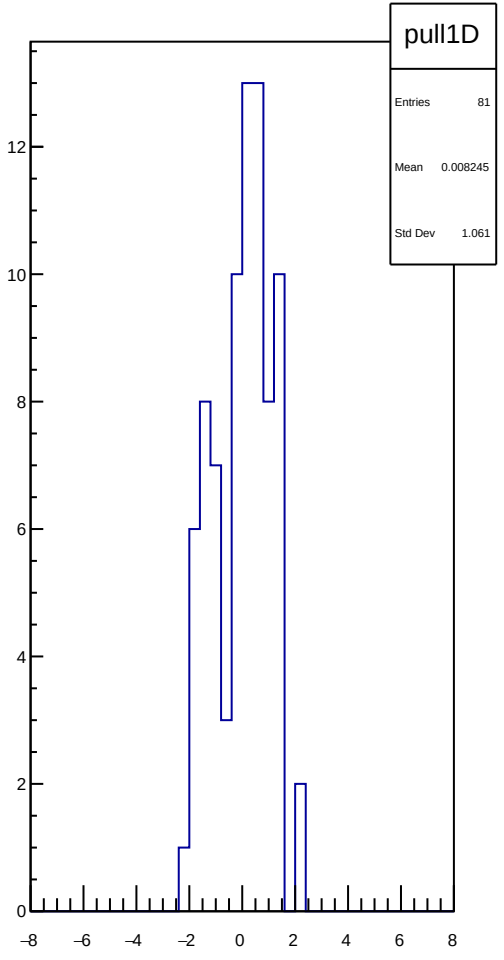

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.843e+04 / 80
p0 53.66 ± 0.04395
90
80
70
60
50
40
30

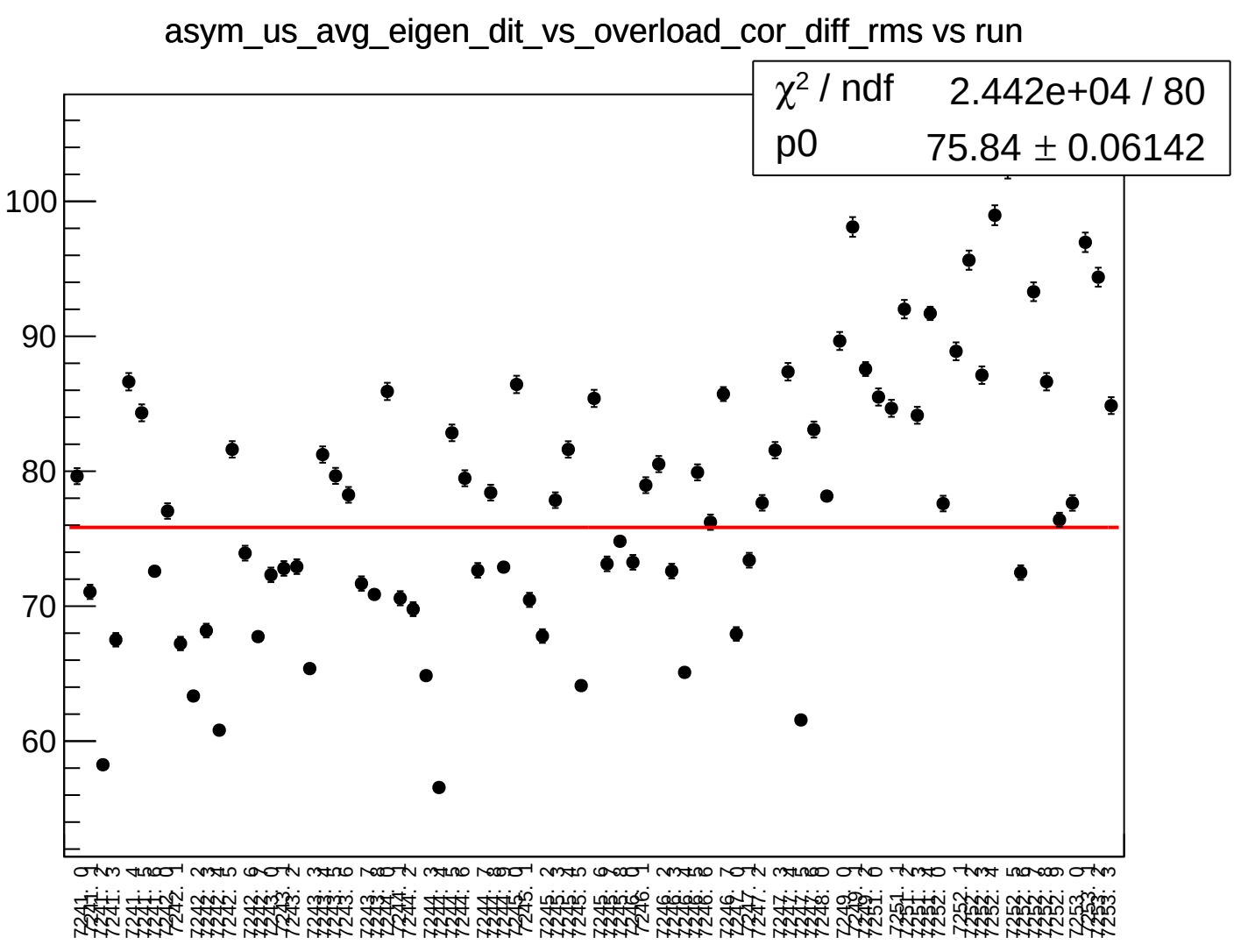

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.84 / 80
p0 0.005847 ± 0.06216
pull
Entries 81
Mean 99.9
Std Dev 0

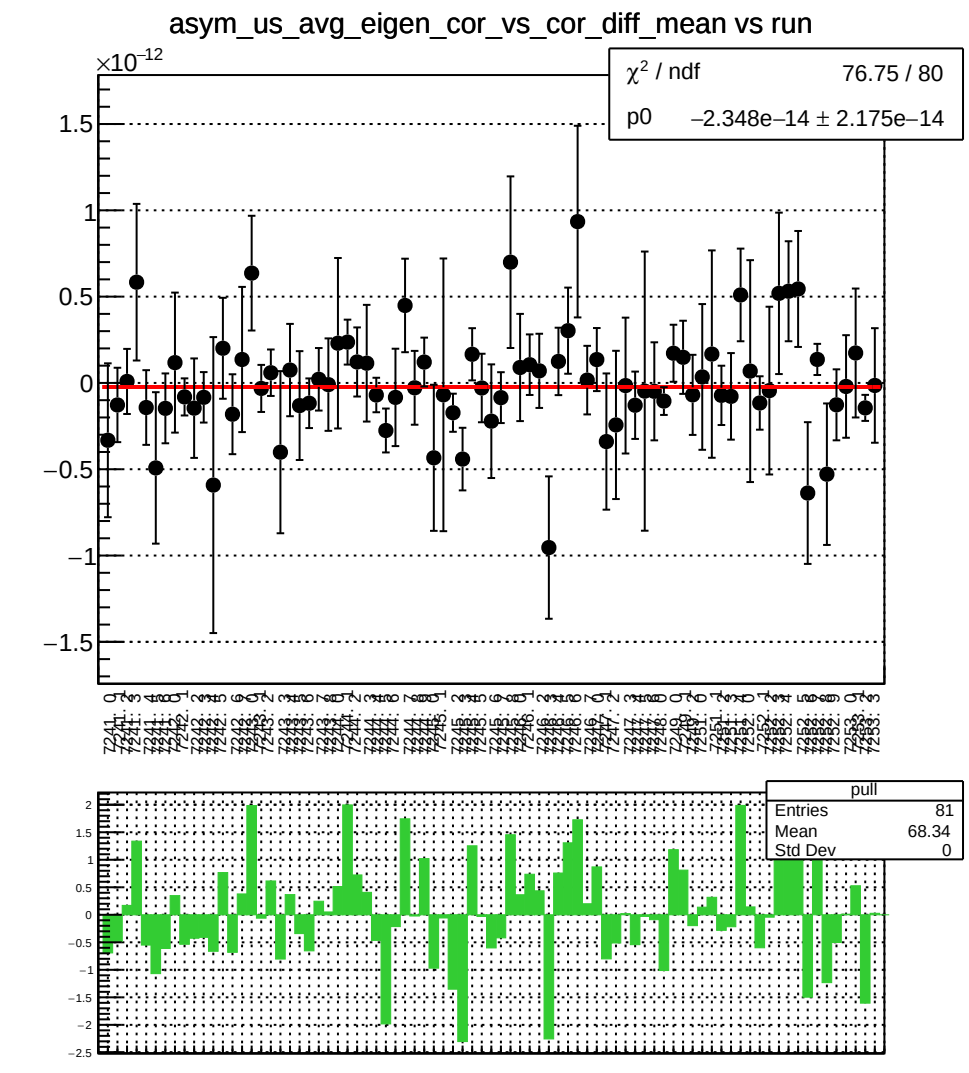

pull1D
Entries 81
Mean 0.01718
Std Dev 1.053

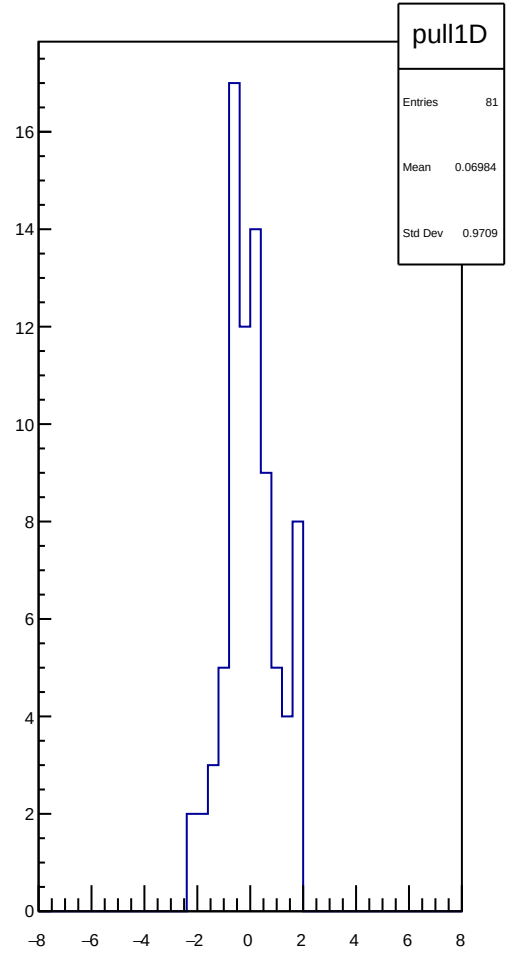

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.843e+04 / 80
p0 53.66 ± 0.04395
90
80
70
60
50
40
30

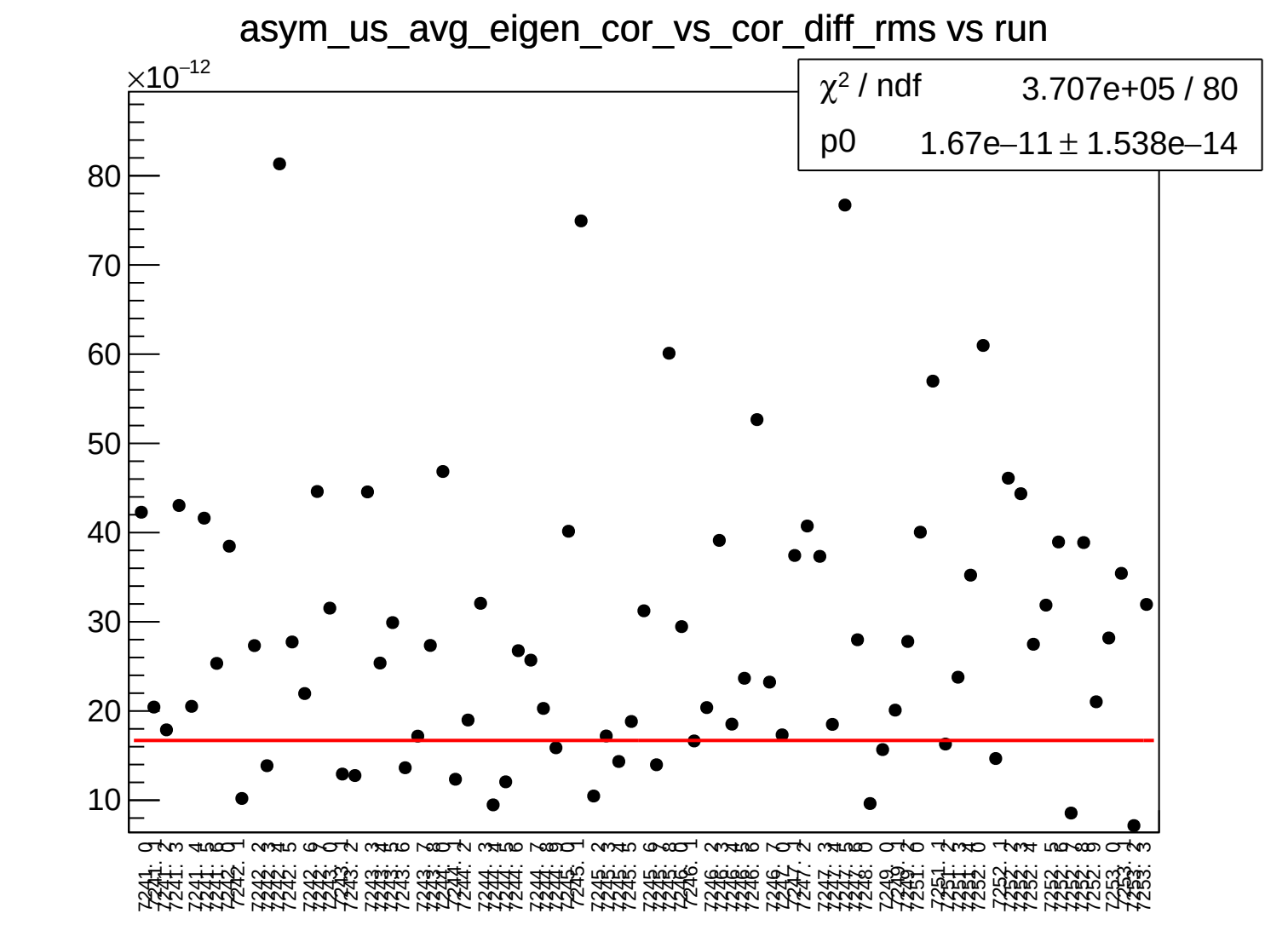

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 91.2 / 80
p0 −0.06325 ± 0.08686
pull
Entries 81
Mean 119.3
Std Dev 0

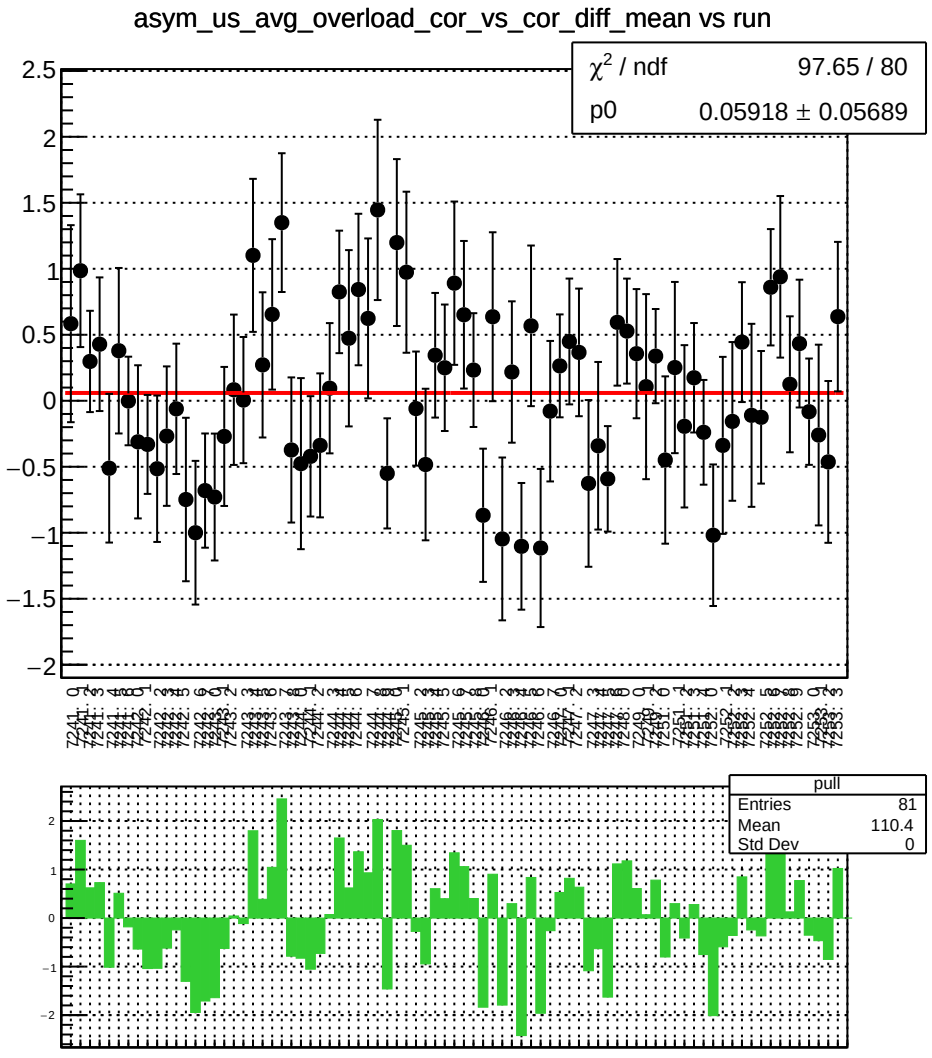

pull1D
Entries 81
Mean 0.008245
Std Dev 1.061

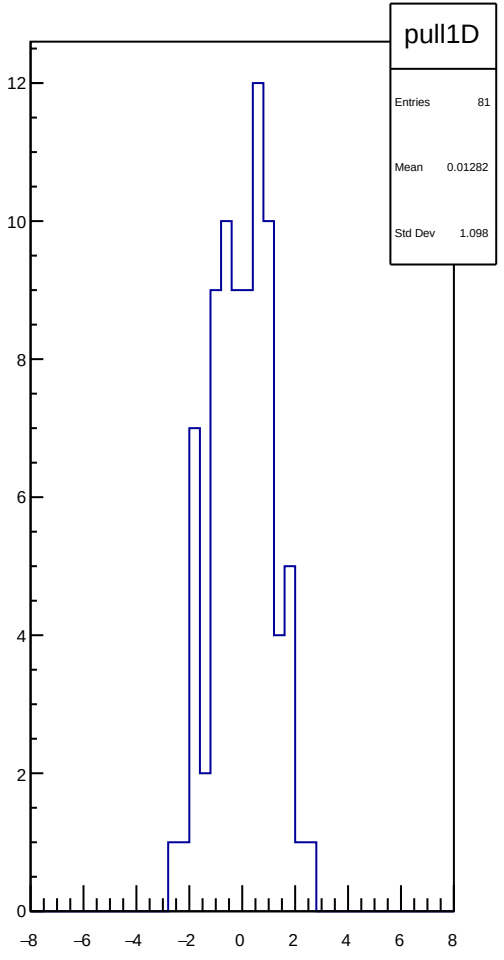

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.442e+04 / 80
p0 75.84 ± 0.06142
100
90
80
70
60

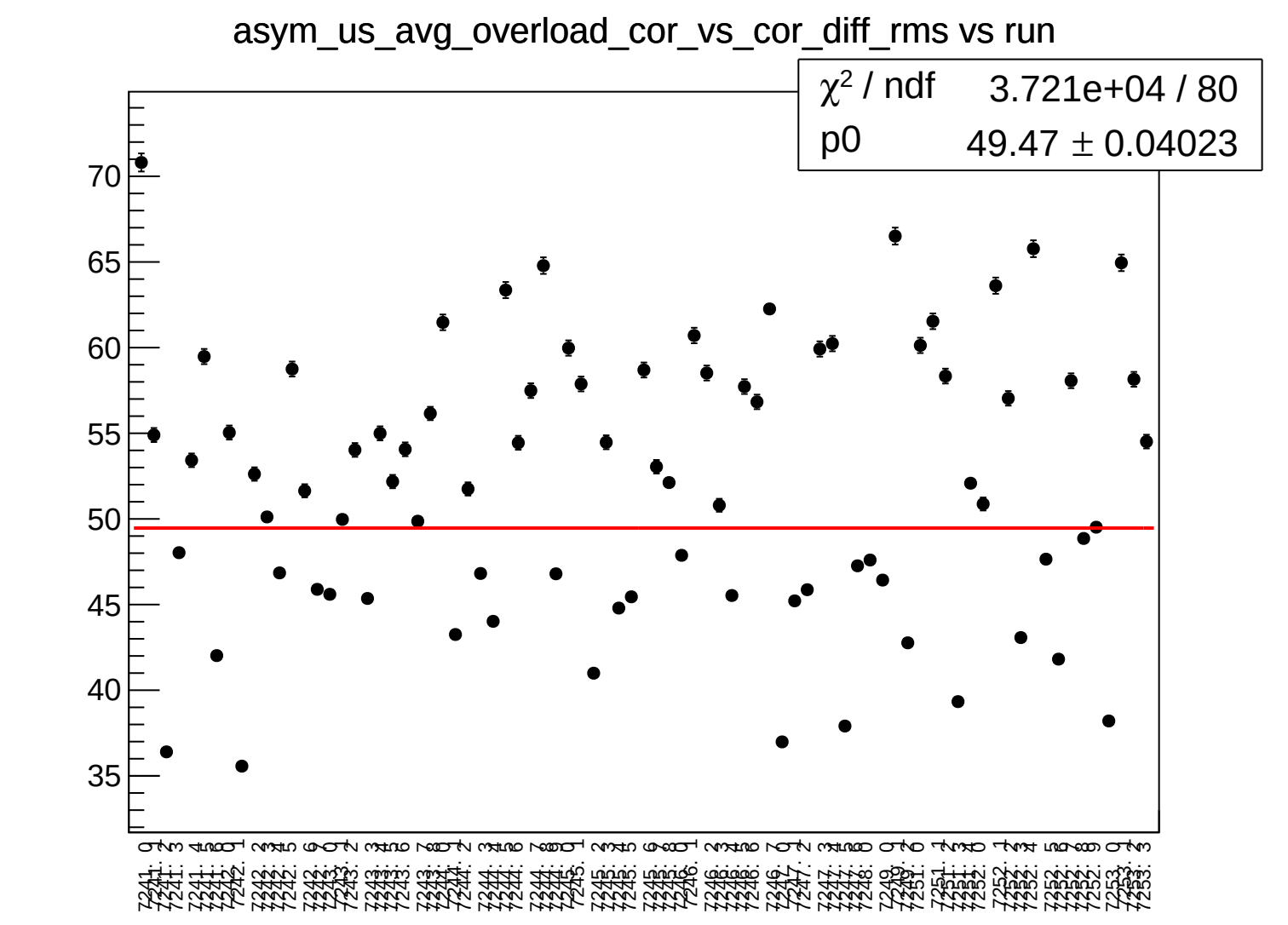

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.75 / 80
p0 −2.348e−14 ± 2.175e−14
pull
Entries 81
Mean 68.34
Std Dev 0

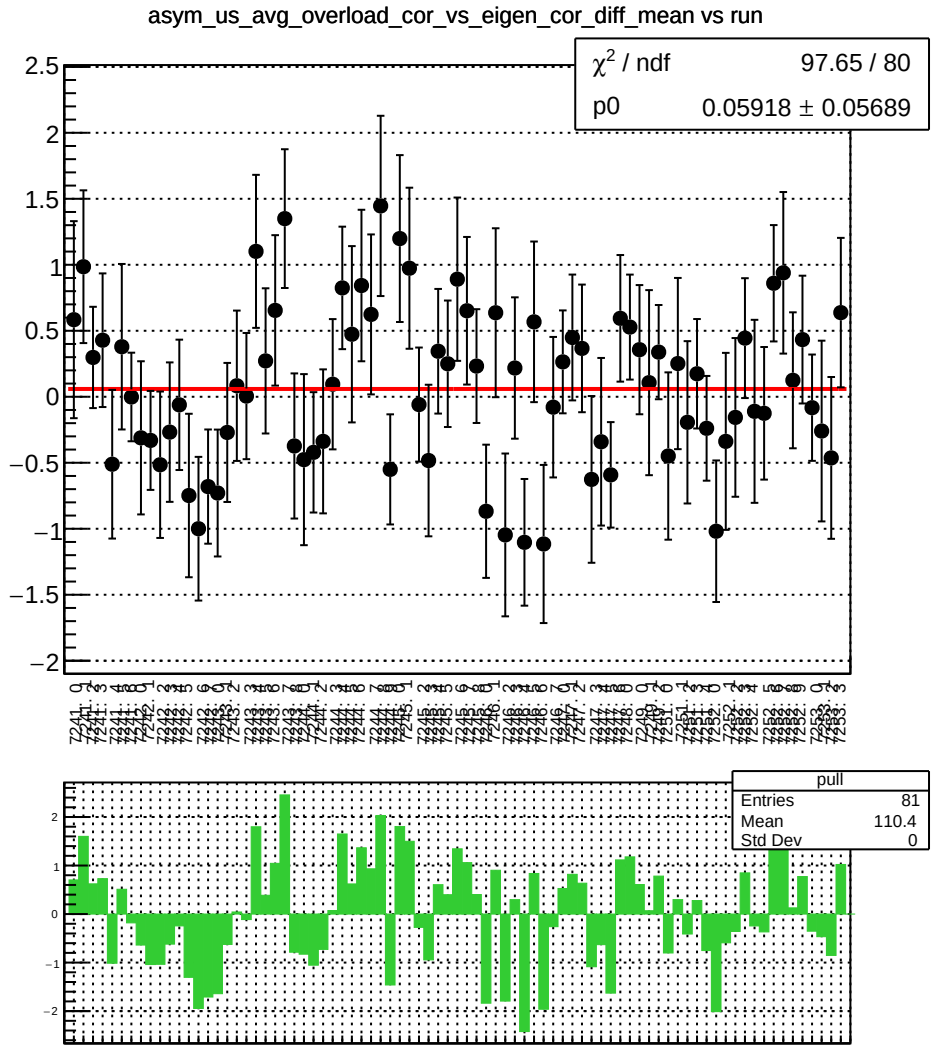

pull1D
Entries 81
Mean 0.06984
Std Dev 0.9709

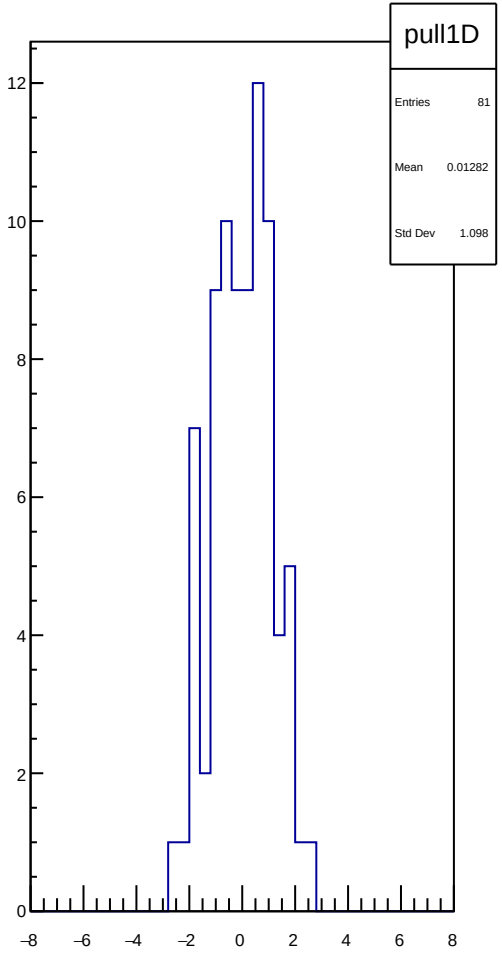

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.707e+05 / 80
p0 1.67e−11 ± 1.538e−14
80
70
60
50
40
30
20
10

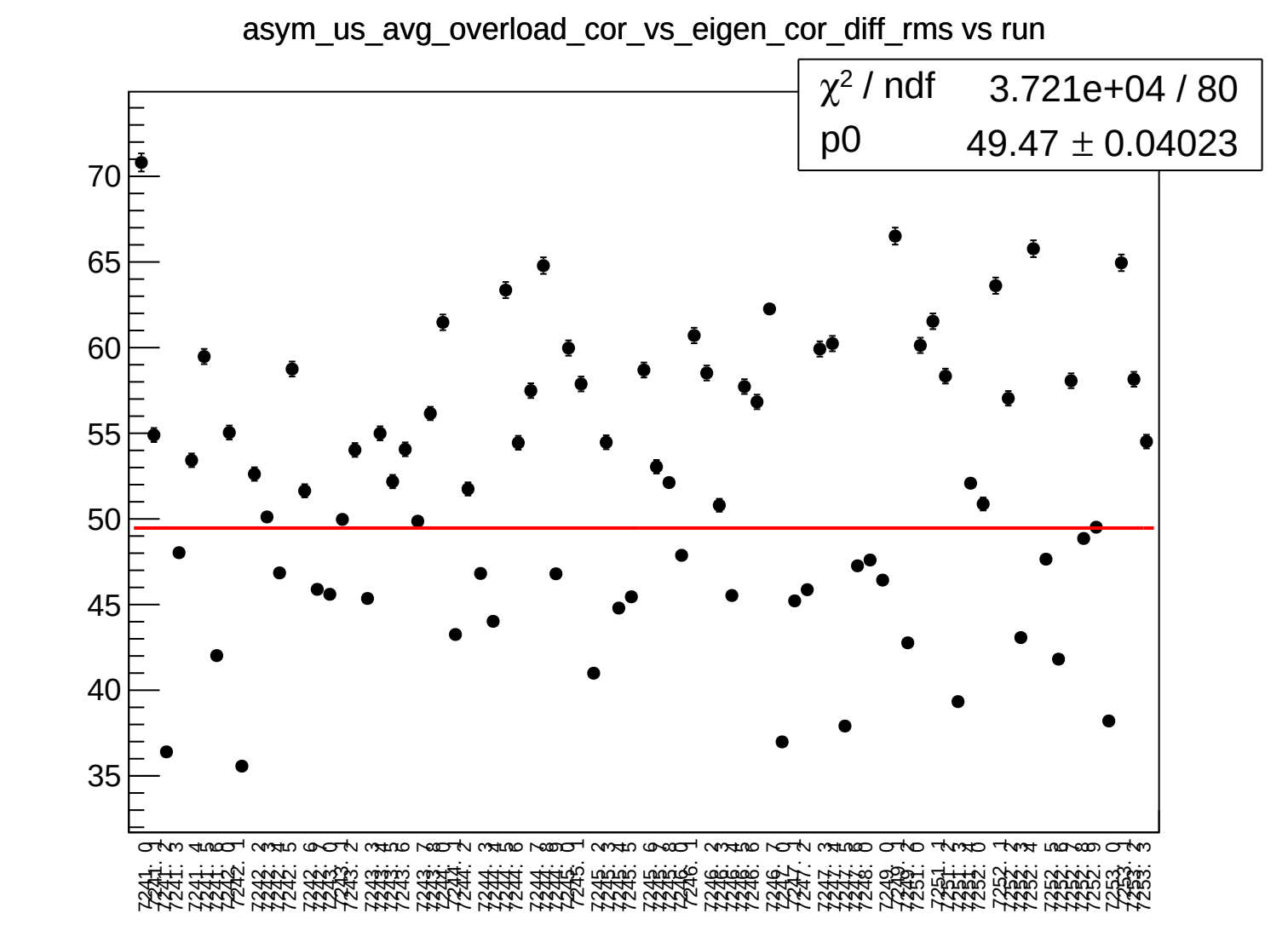

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 97.65 / 80
p0 0.05918 ± 0.05689
pull
Entries 81
Mean 110.4
Std Dev 0

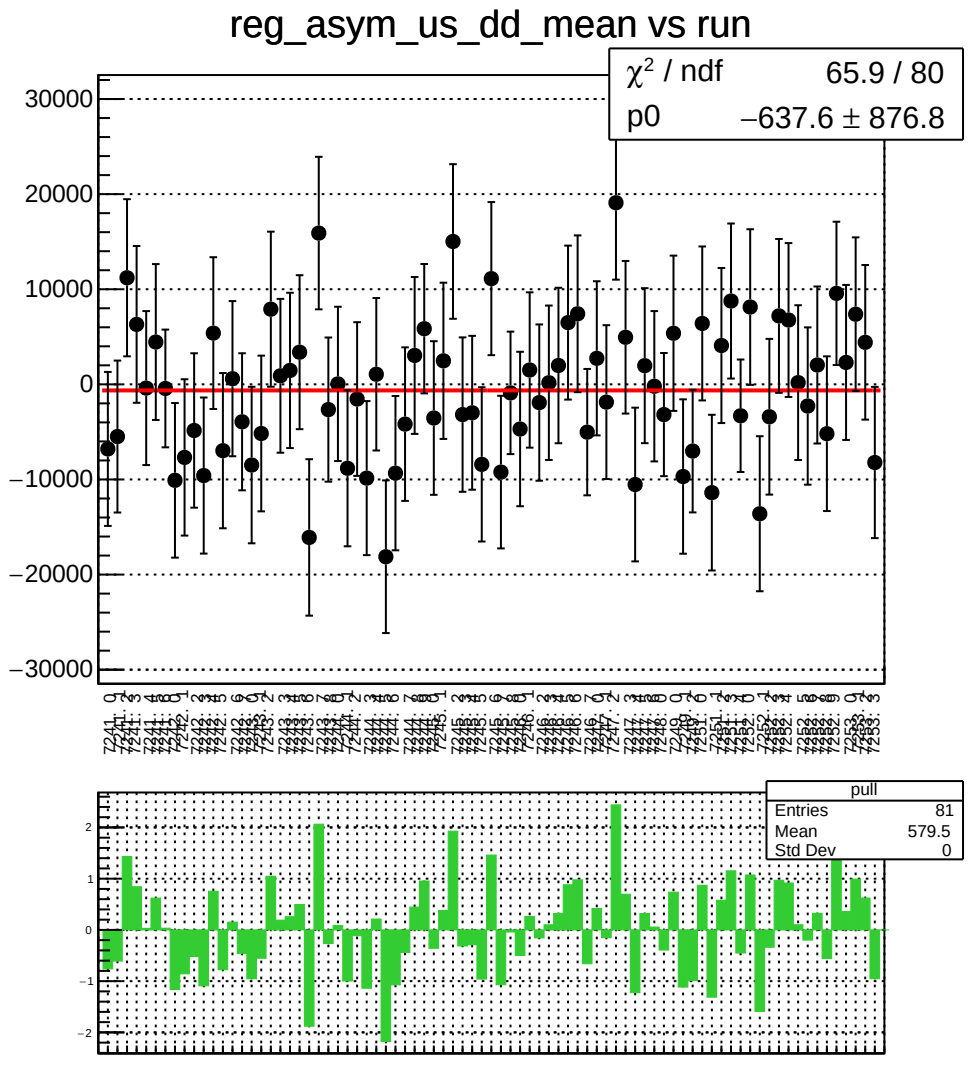

pull1D
Entries 81
Mean 0.01282
Std Dev 1.098

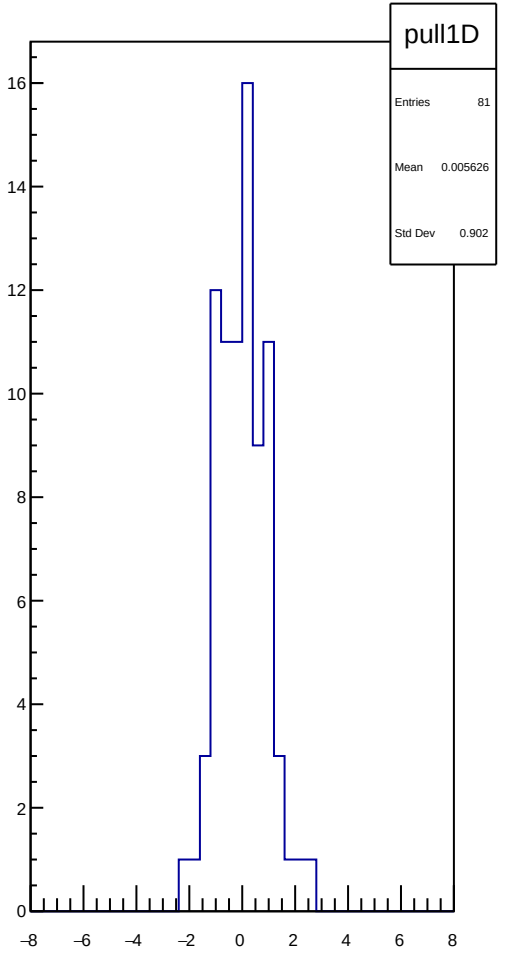

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 3.721e+04 / 80
p0 49.47 ± 0.04023
70
65
60
55
50
45
40
35

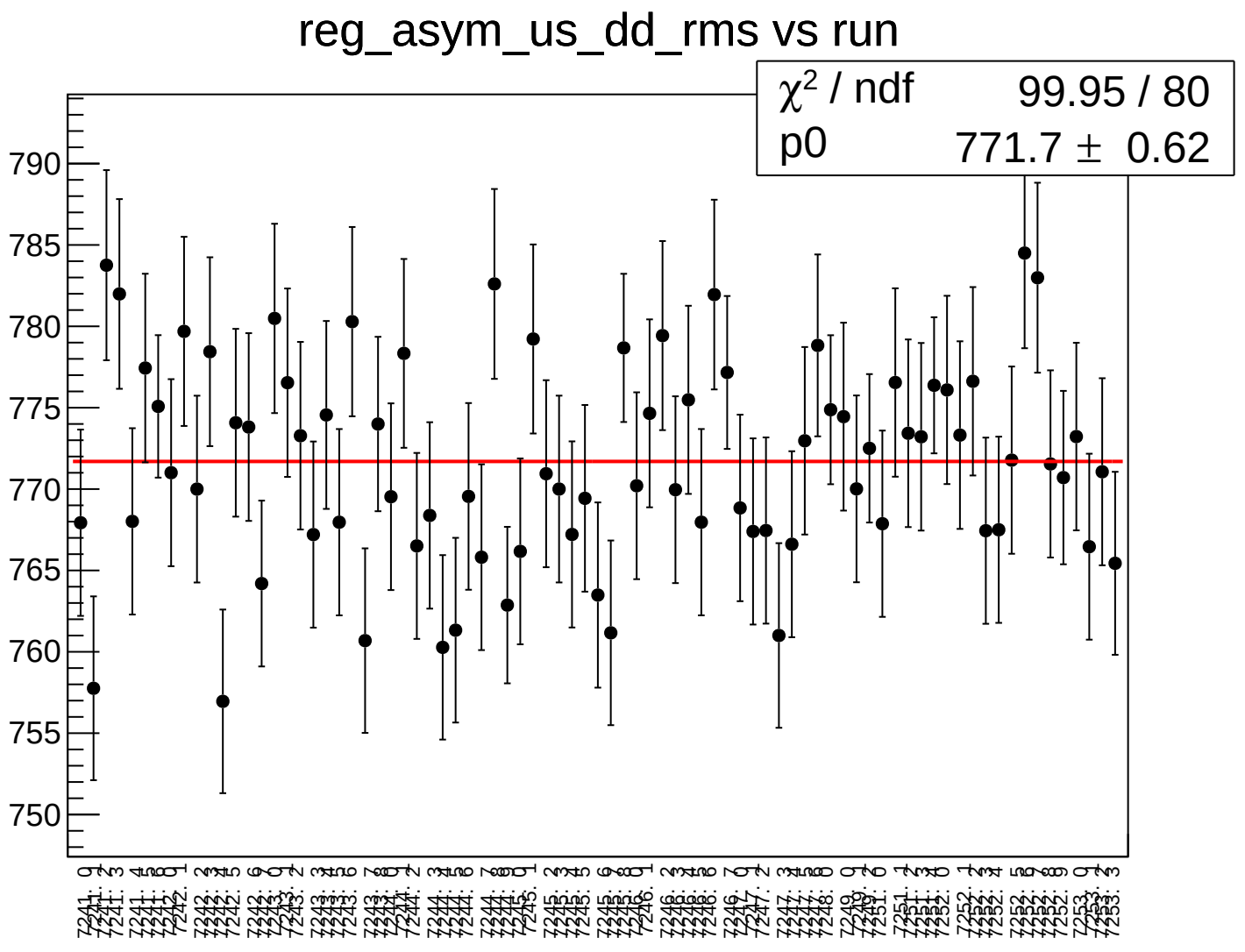

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.65 / 80
p0 0.05918 ± 0.05689
pull
Entries 81
Mean 110.4
Std Dev 0

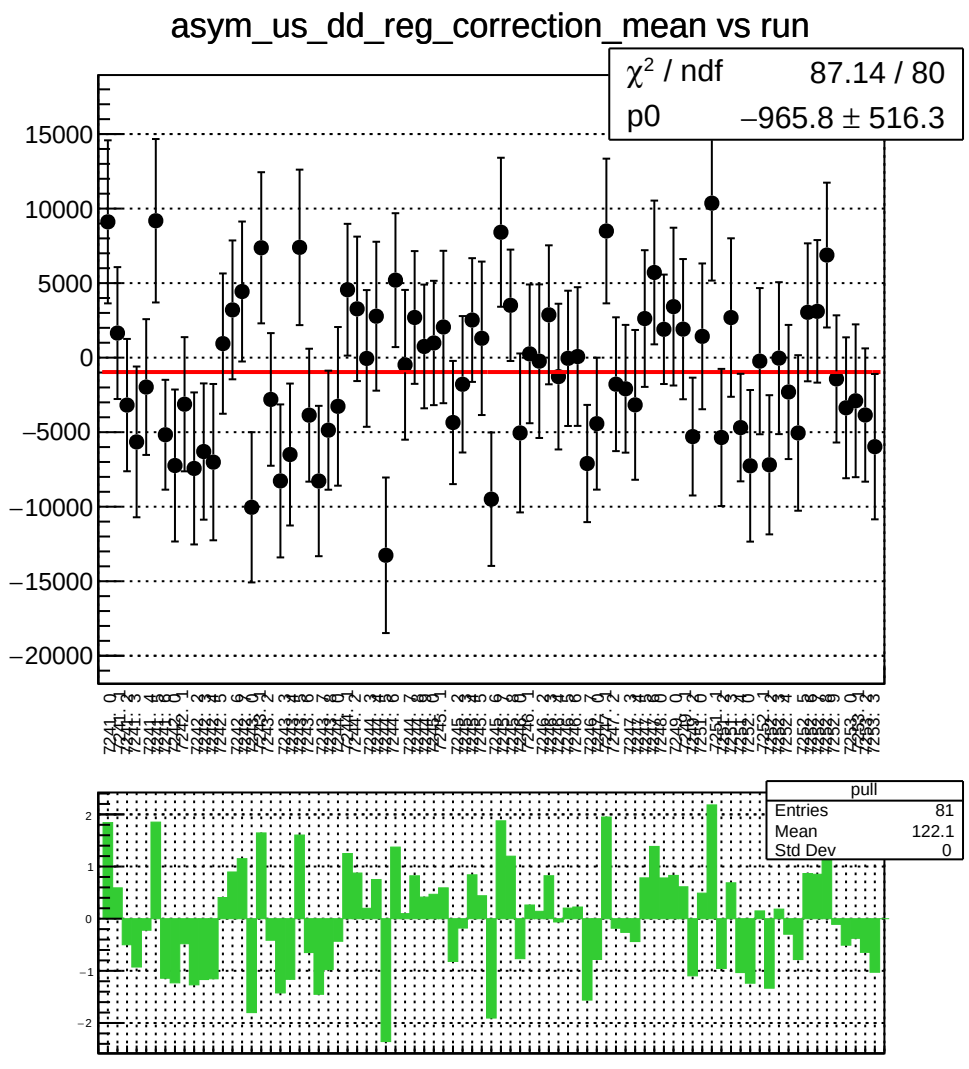

pull1D
Entries 81
Mean 0.01282
Std Dev 1.098

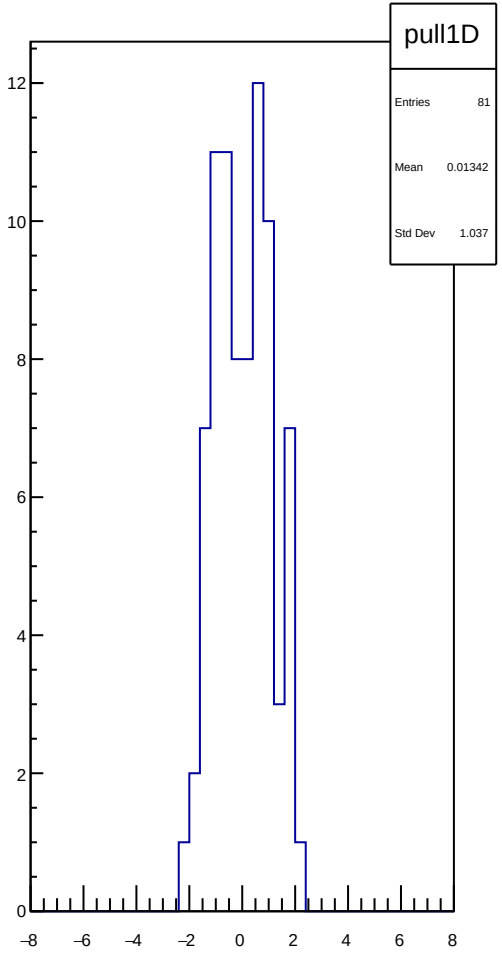

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.721e+04 / 80
p0 49.47 ± 0.04023
70
65
60
55
50
45
40
35

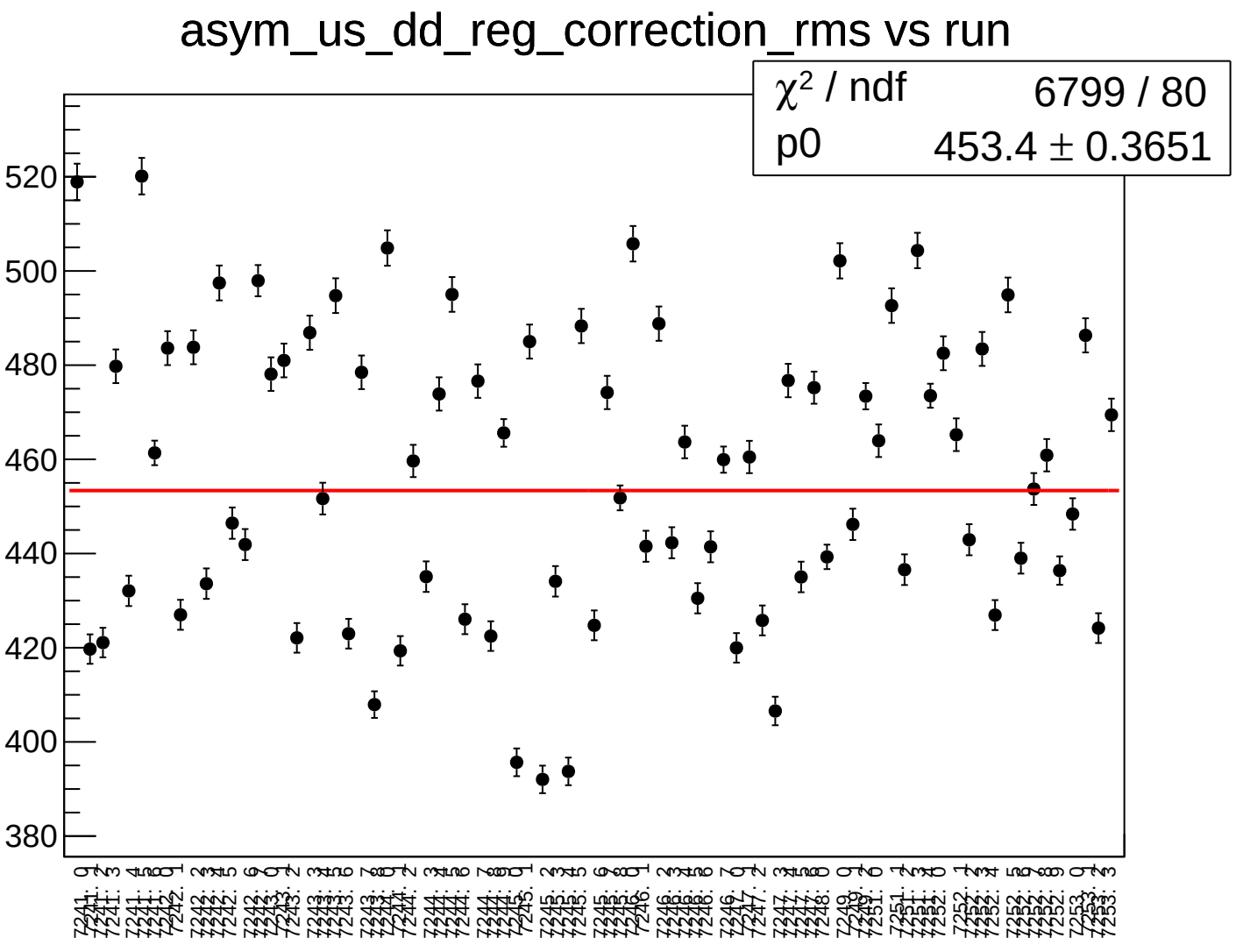

reg_asym_us_dd_mean vs run
χ² / ndf 65.9 / 80
p0 −637.6 ± 876.8
pull
Entries 81
Mean 579.5
Std Dev 0

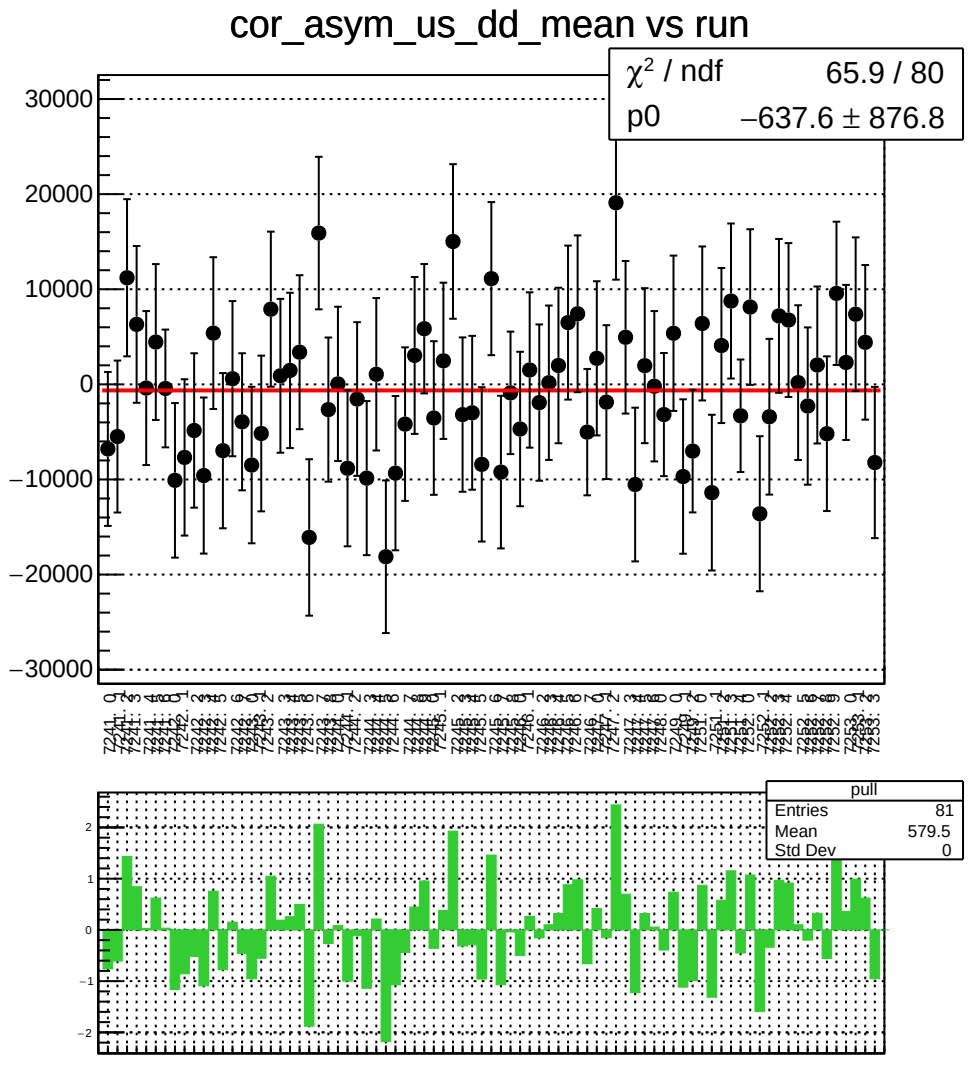

pull1D
Entries 81
Mean 0.005626
Std Dev 0.902

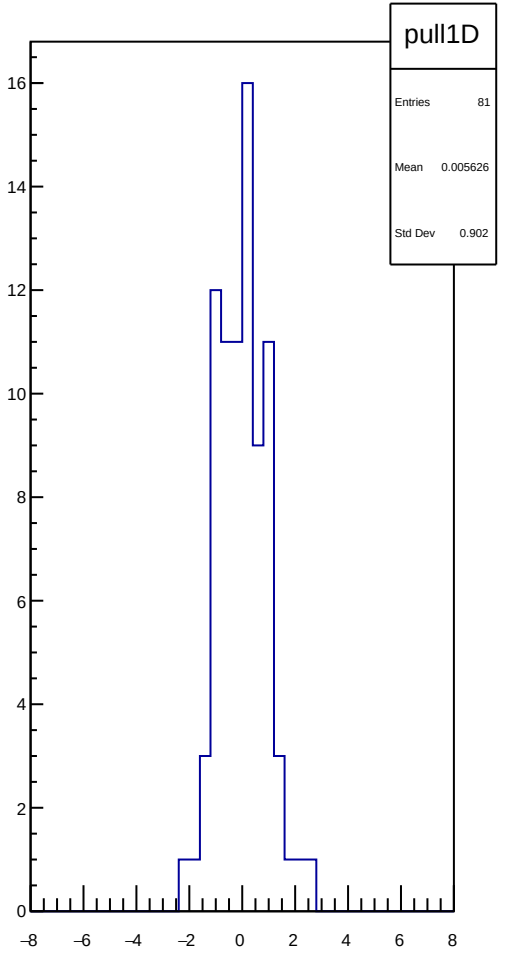

reg_asym_us_dd_rms vs run
χ² / ndf 99.95 / 80
p0 771.7 ± 0.62
790
785
780
775
770
765
760
755
750

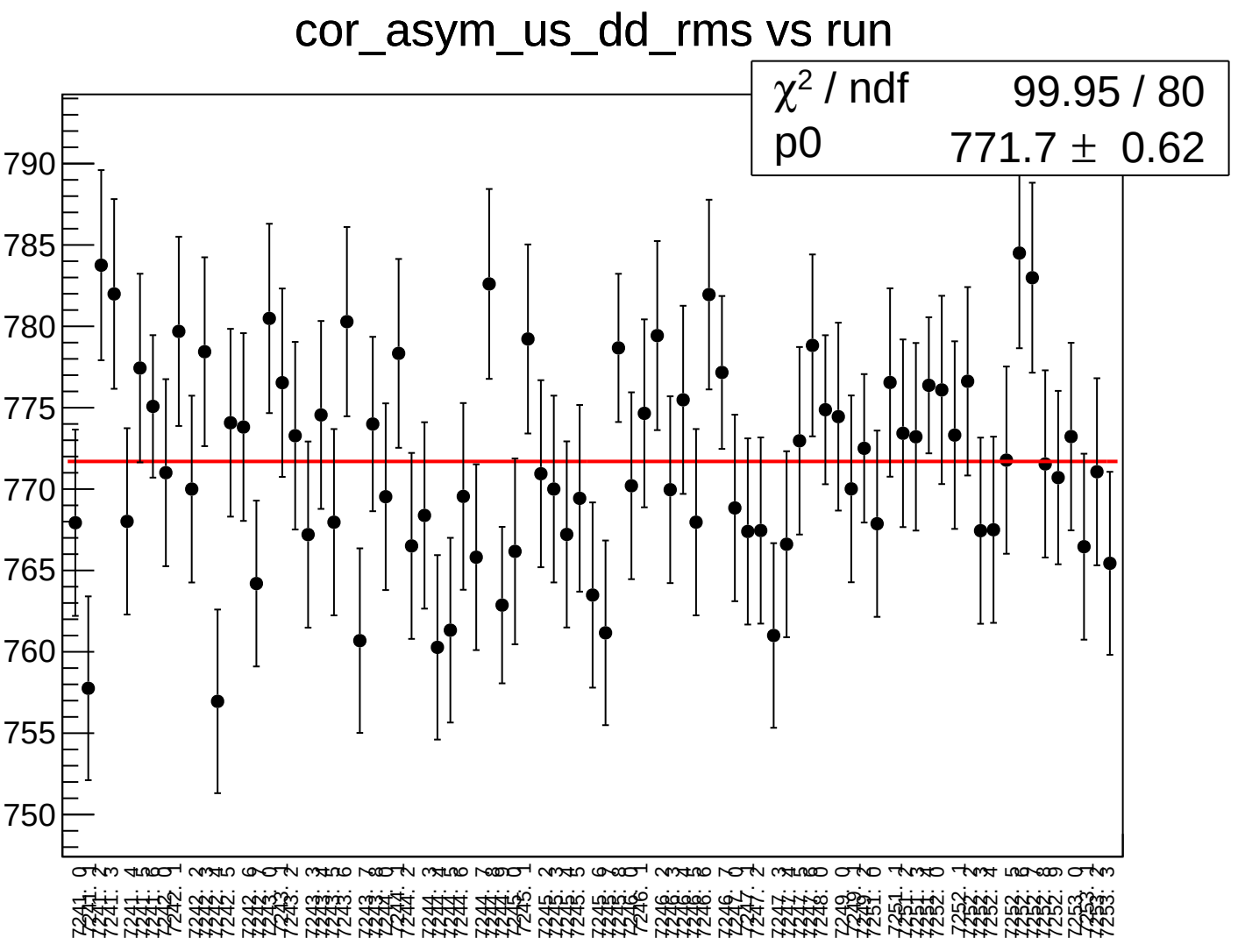

asym_us_dd_reg_correction_mean vs run
χ² / ndf 87.14 / 80
p0 −965.8 ± 516.3
pull
Entries 81
Mean 122.1
Std Dev 0

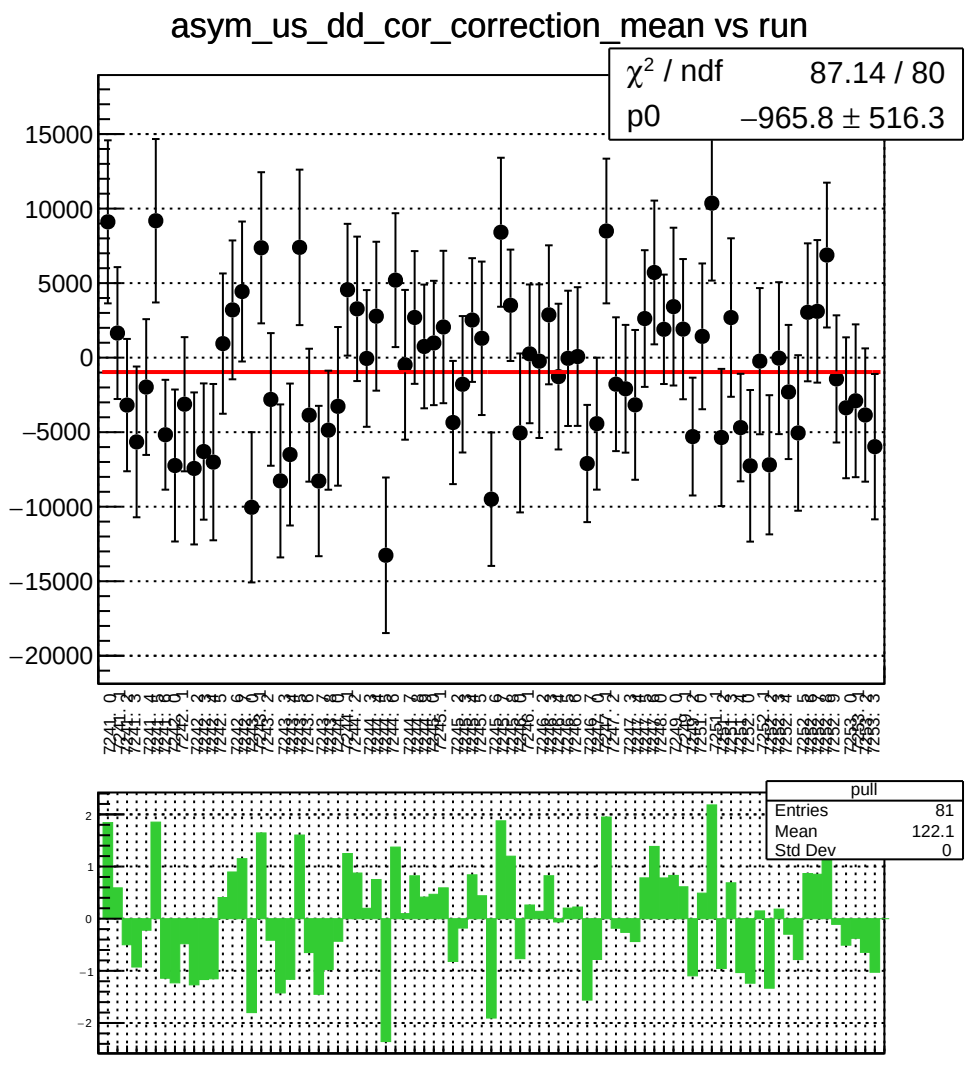

pull1D
Entries 81
Mean 0.01342
Std Dev 1.037

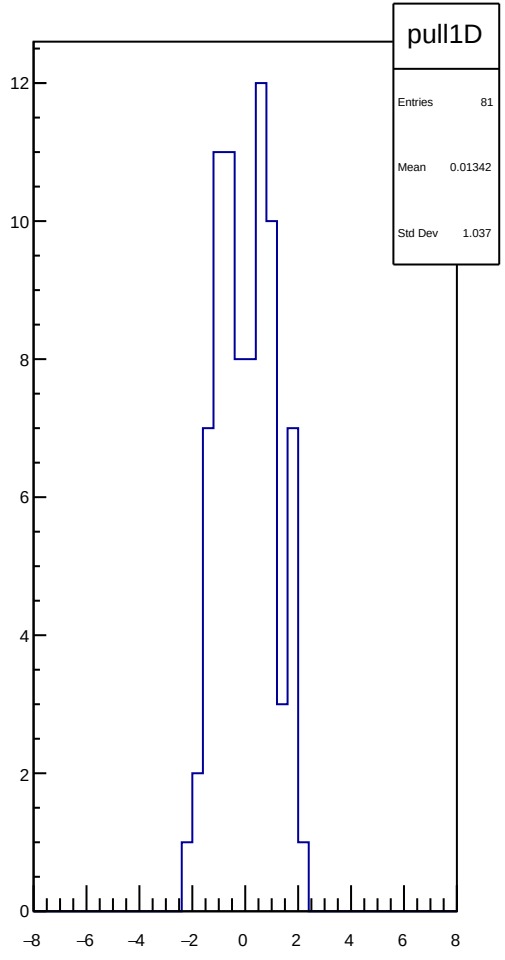

asym_us_dd_reg_correction_rms vs run
χ² / ndf 6799 / 80
p0 453.4 ± 0.3651
520
500
480
460
440
420
400
380

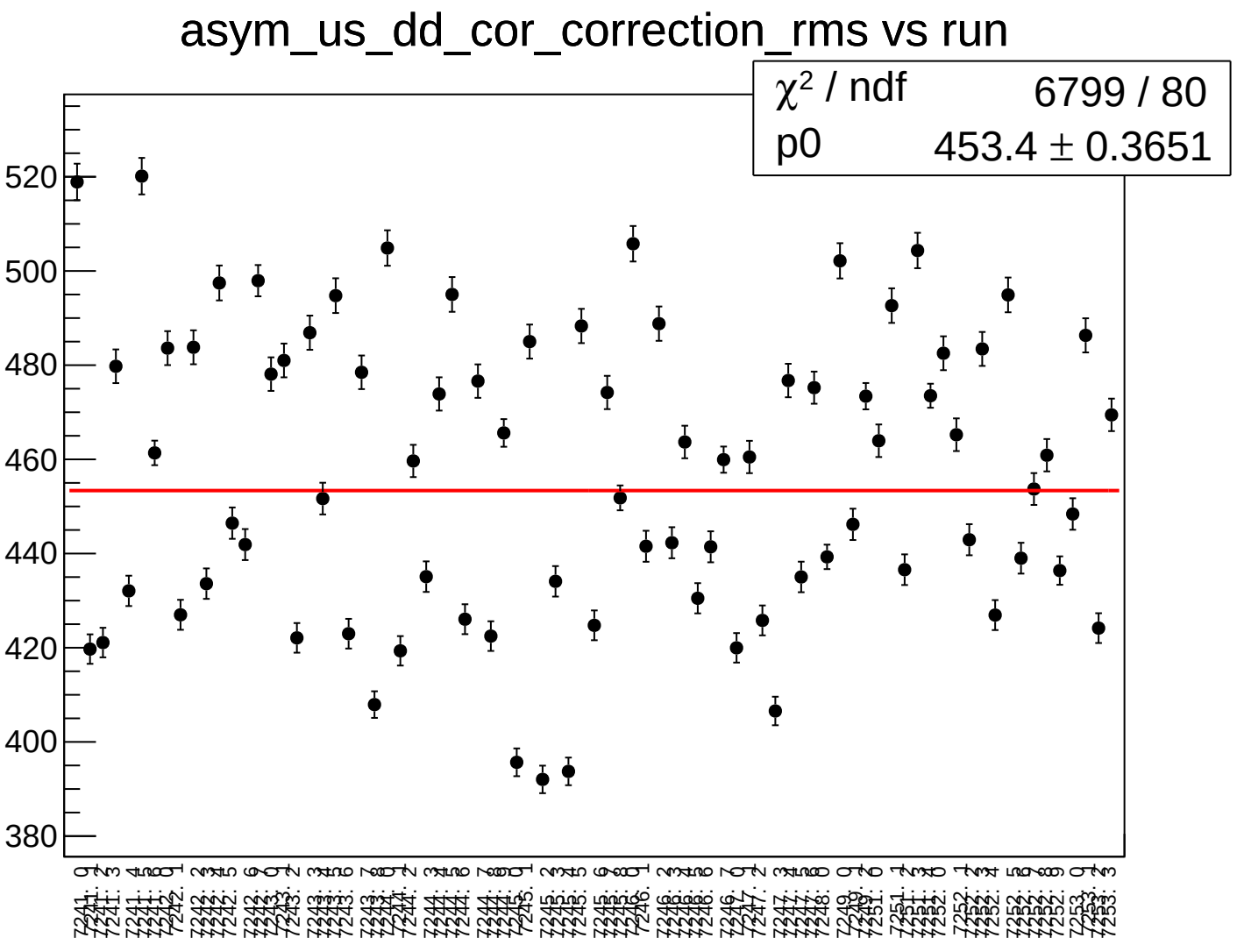

cor_asym_us_dd_mean vs run
χ² / ndf 65.9 / 80
p0 −637.6 ± 876.8
pull
Entries 81
Mean 579.5
Std Dev 0

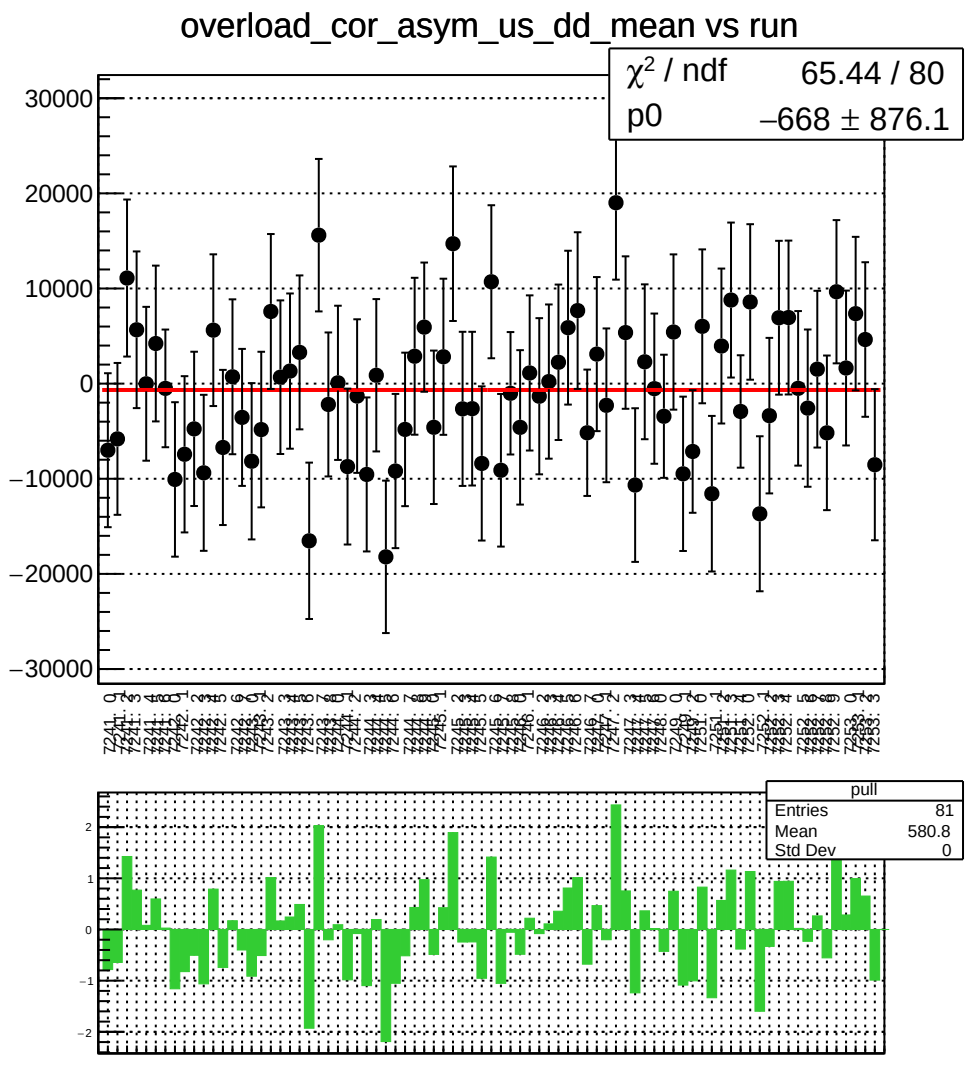

pull1D
Entries 81
Mean 0.005626
Std Dev 0.902

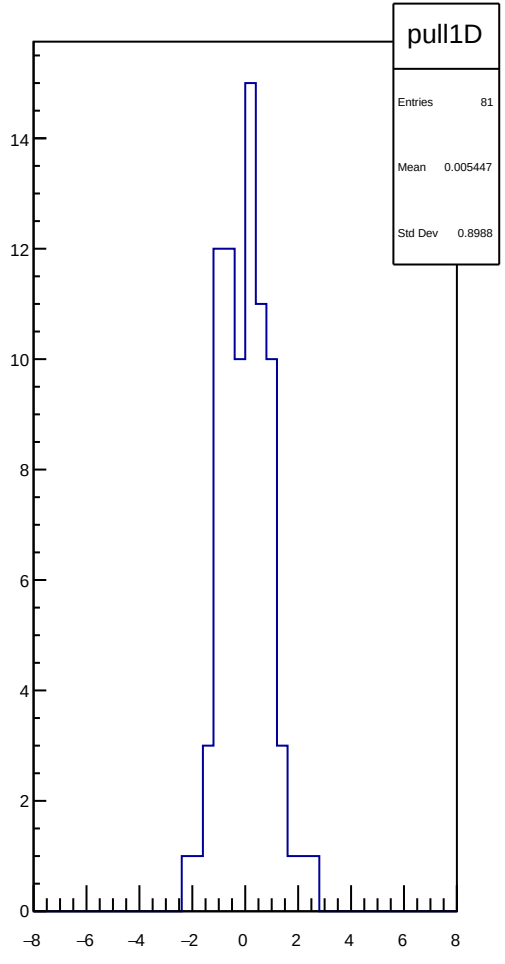

cor_asym_us_dd_rms vs run
χ² / ndf 99.95 / 80
p0 771.7 ± 0.62
790
785
780
775
770
765
760
755
750

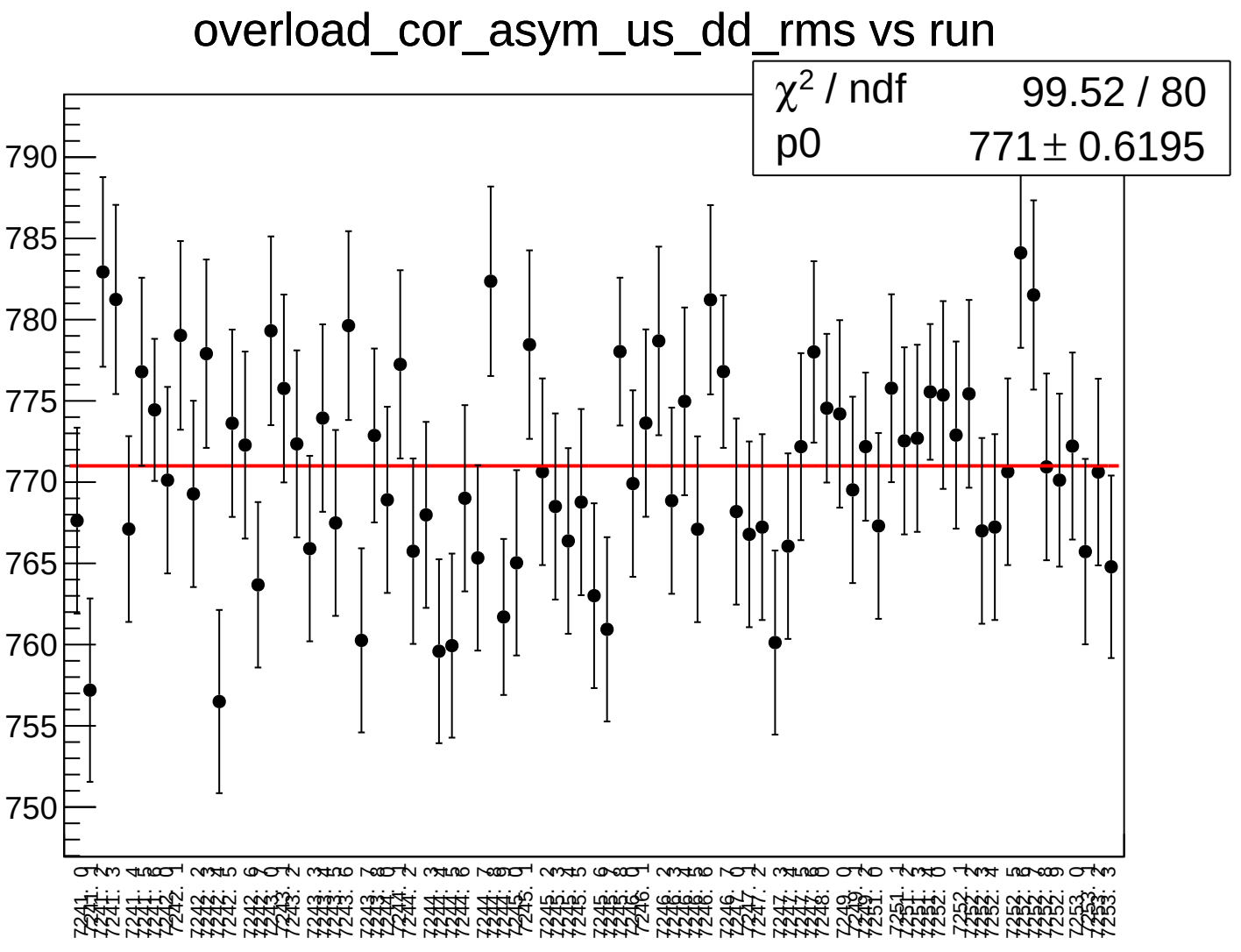

asym_us_dd_cor_correction_mean vs run
χ² / ndf 87.14 / 80
p0 −965.8 ± 516.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 81
Mean 122.1
Std Dev 0
2
1
0
−1
−2

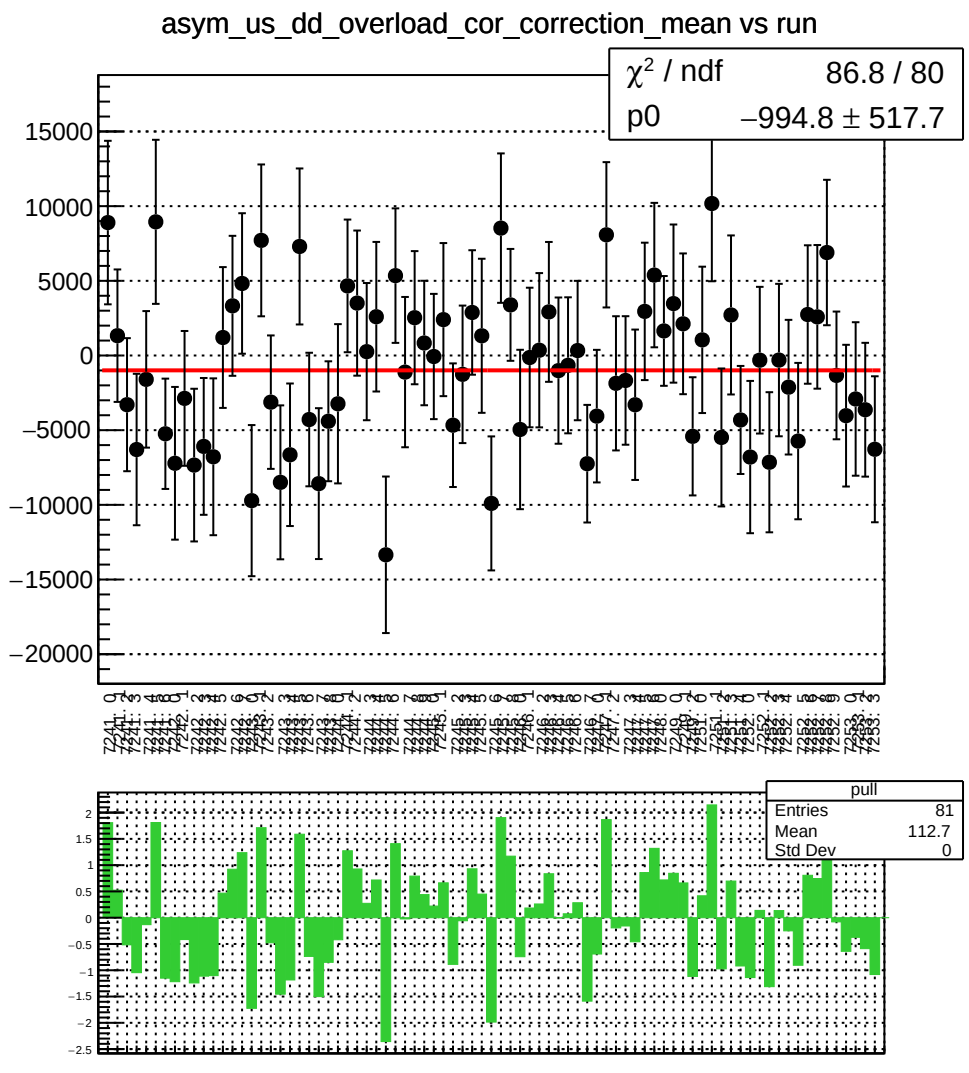

pull1D
Entries 81
Mean 0.01342
Std Dev 1.037
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

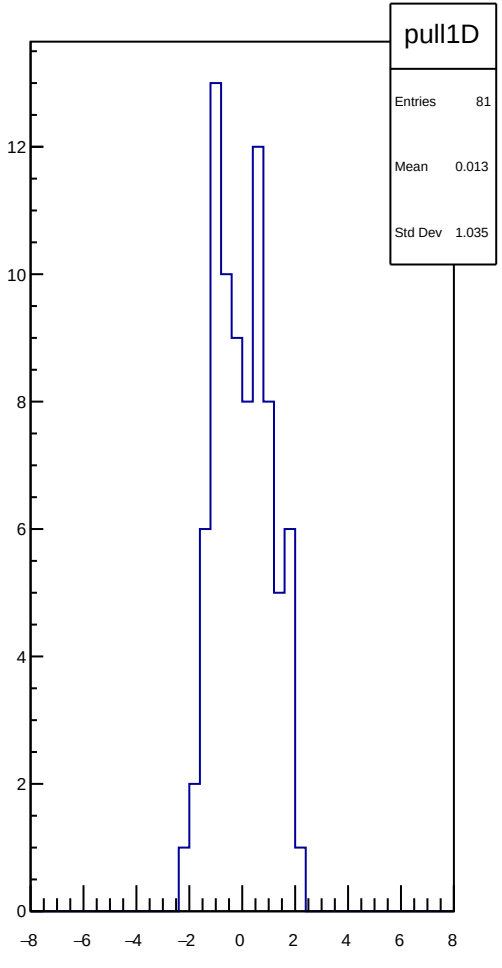

asym_us_dd_cor_correction_rms vs run
χ² / ndf 6799 / 80
p0 453.4 ± 0.3651
520
500
480
460
440
420
400
380

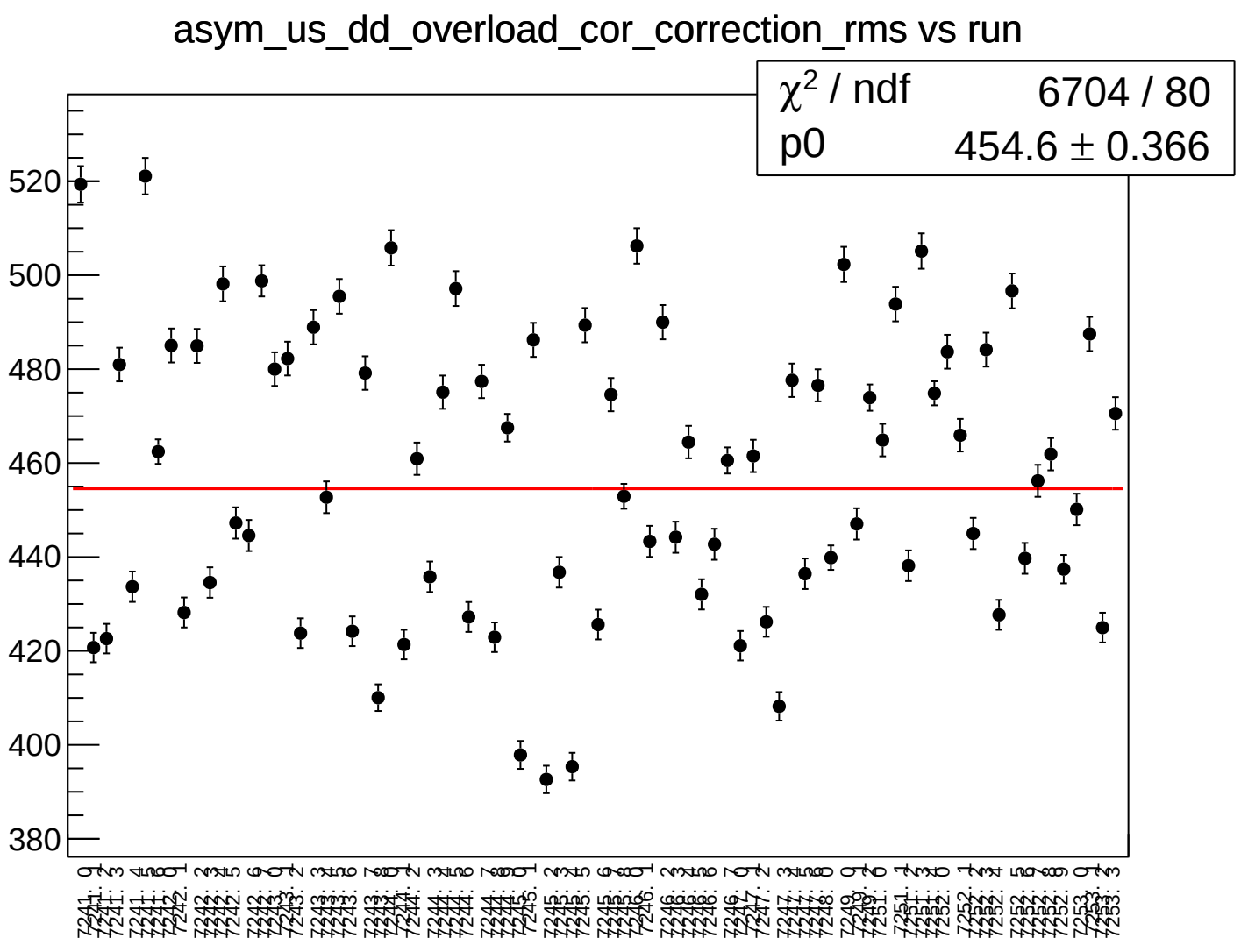

overload_cor_asym_us_dd_mean vs run
χ² / ndf 65.44 / 80
p0 −668 ± 876.1
pull
Entries 81
Mean 580.8
Std Dev 0

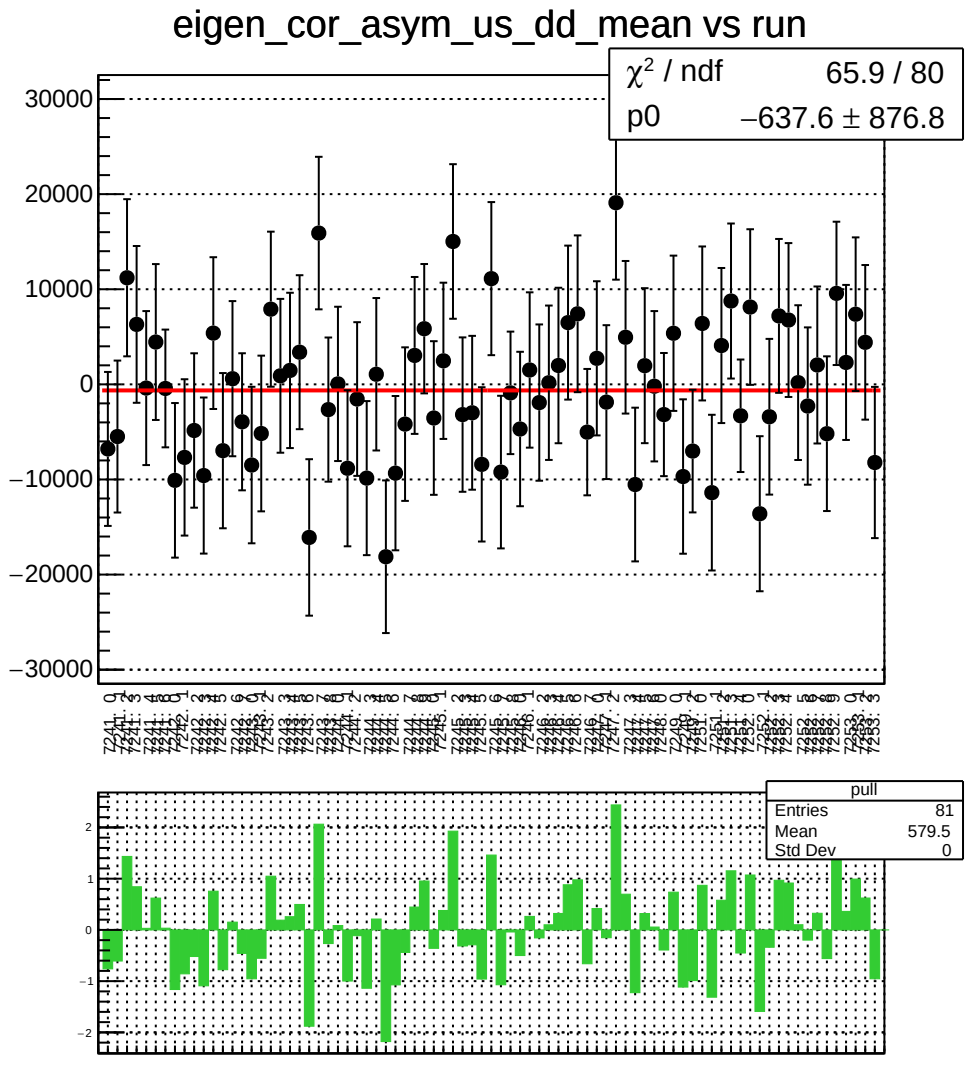

pull1D
Entries 81
Mean 0.005447
Std Dev 0.8988

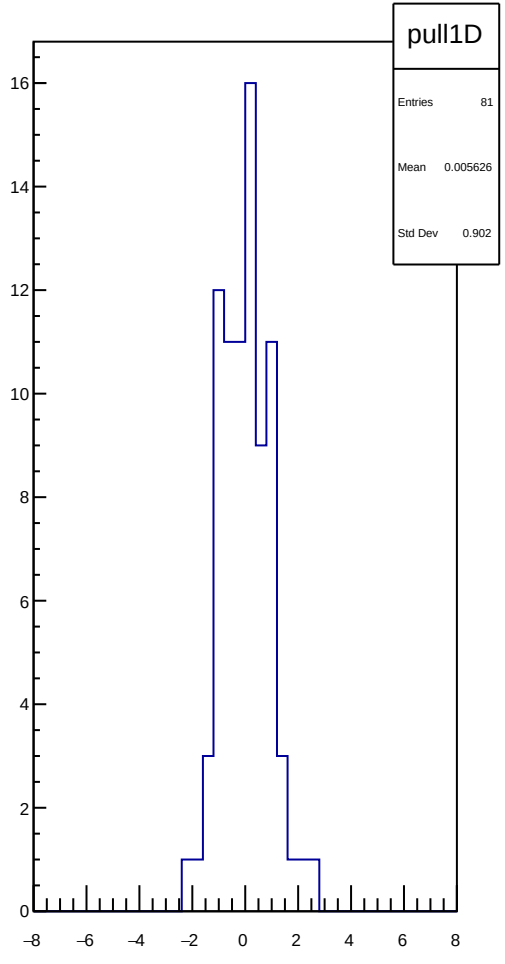

overload_cor_asym_us_dd_rms vs run
χ^2 / ndf 99.52 / 80
p0 771 ± 0.6195
790
785
780
775
770
765
760
755
750

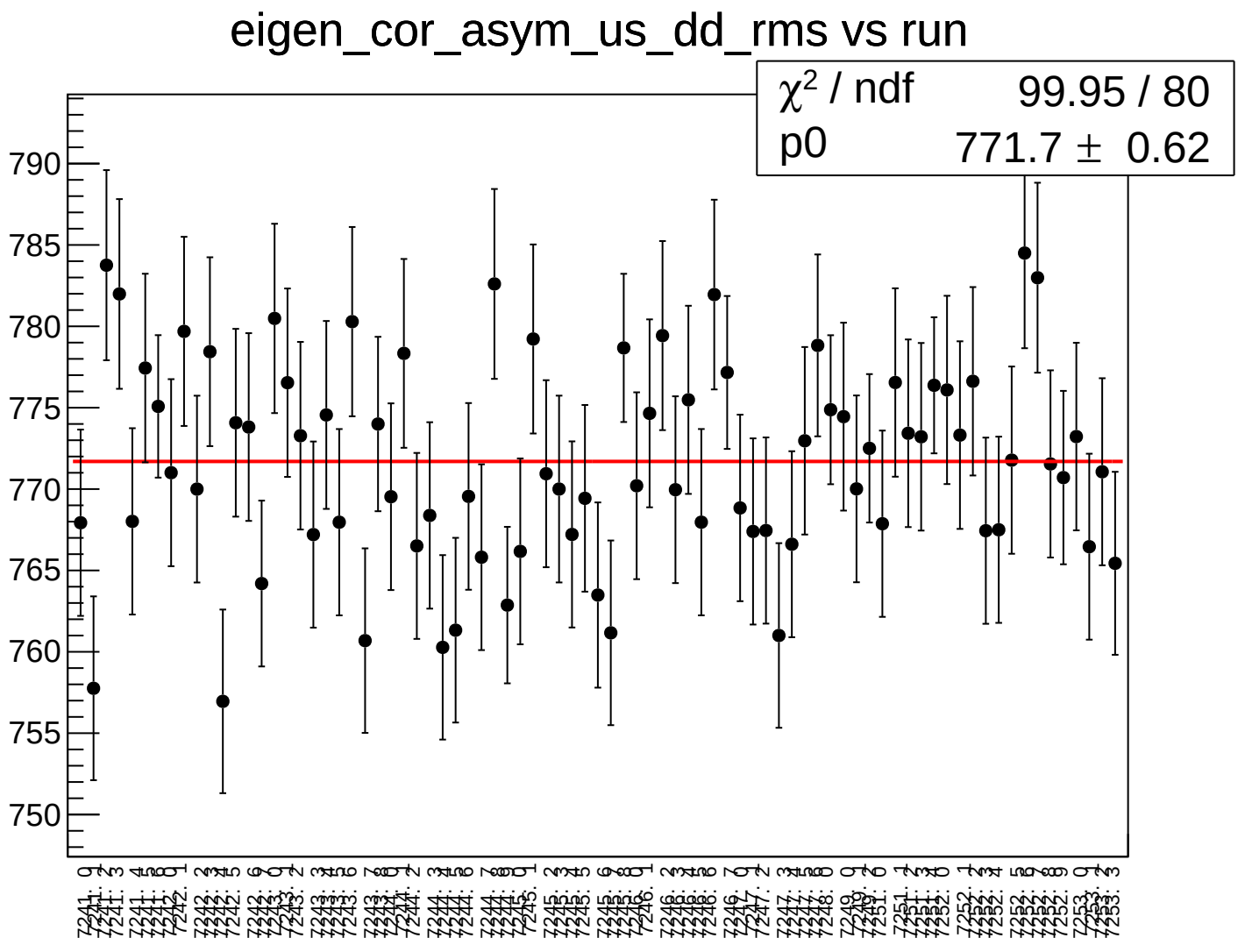

asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 86.8 / 80
p0 −994.8 ± 517.7
pull
Entries 81
Mean 112.7
Std Dev 0

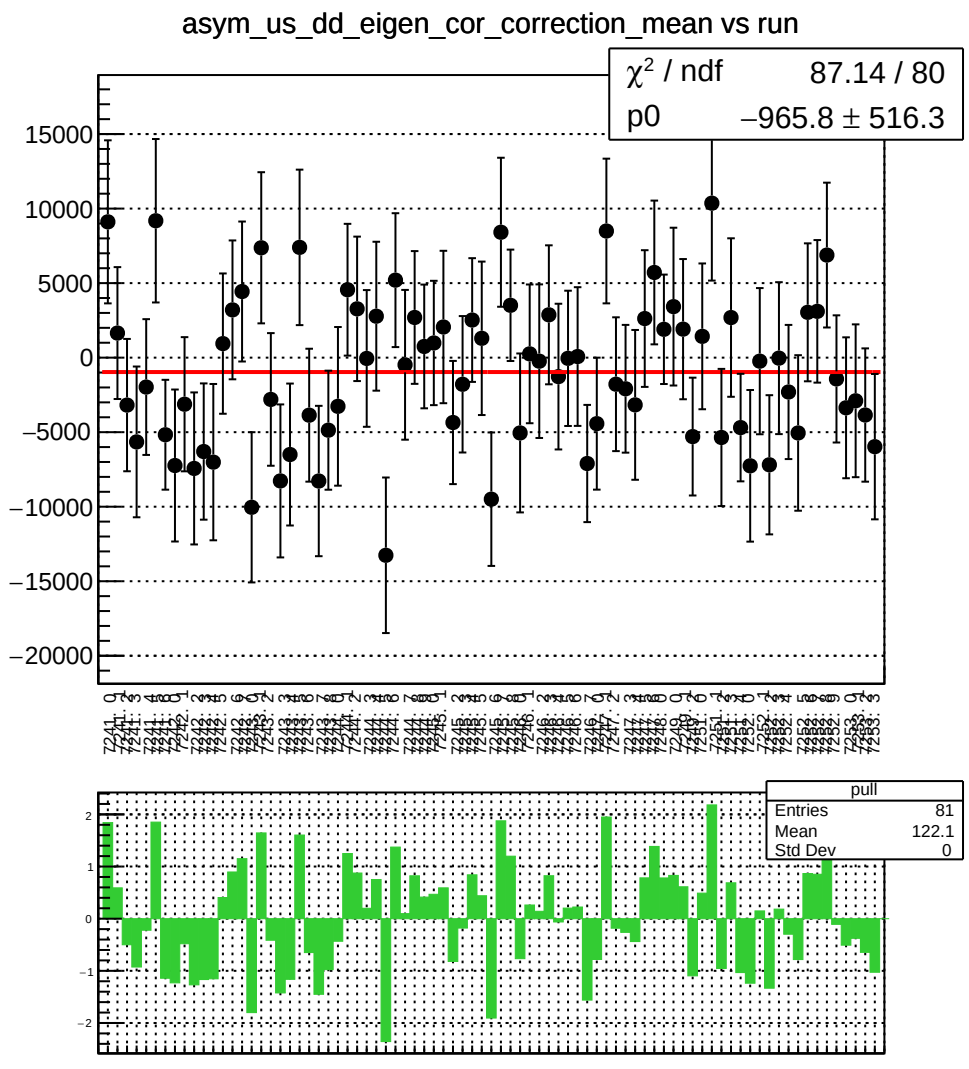

pull1D
Entries 81
Mean 0.013
Std Dev 1.035

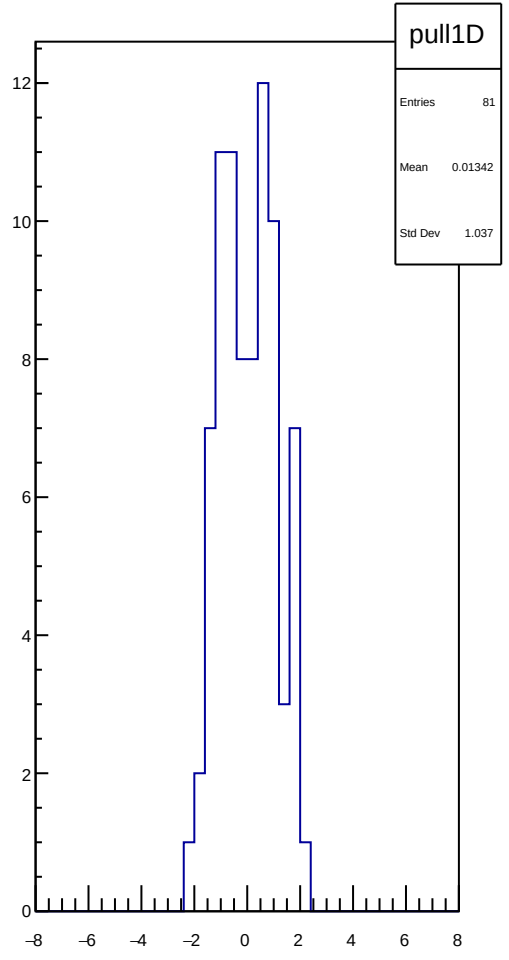

asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 6704 / 80
p0 454.6 ± 0.366
520
500
480
460
440
420
400
380

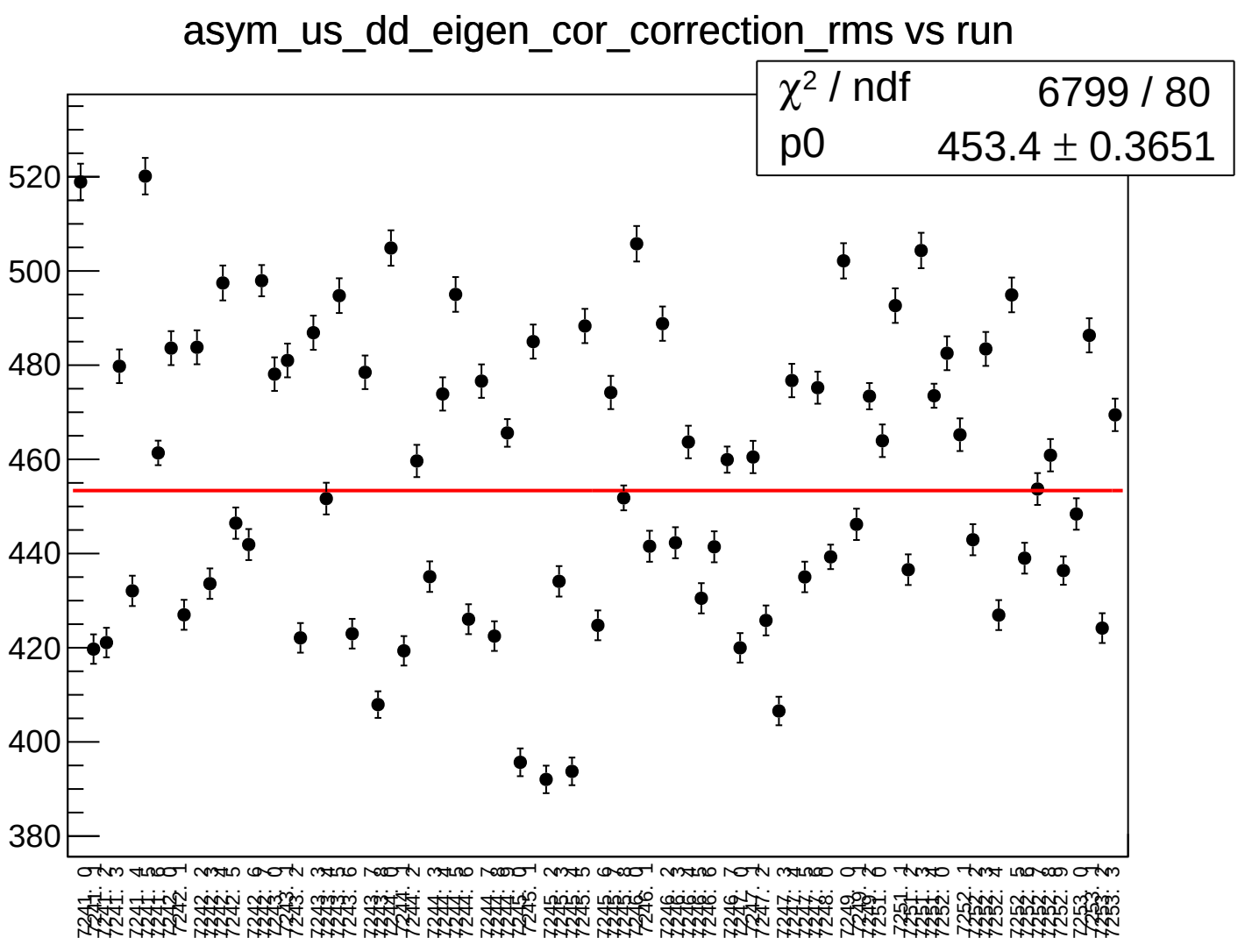

eigen_cor_asym_us_dd_mean vs run
χ² / ndf 65.9 / 80
p0 −637.6 ± 876.8
pull
Entries 81
Mean 579.5
Std Dev 0

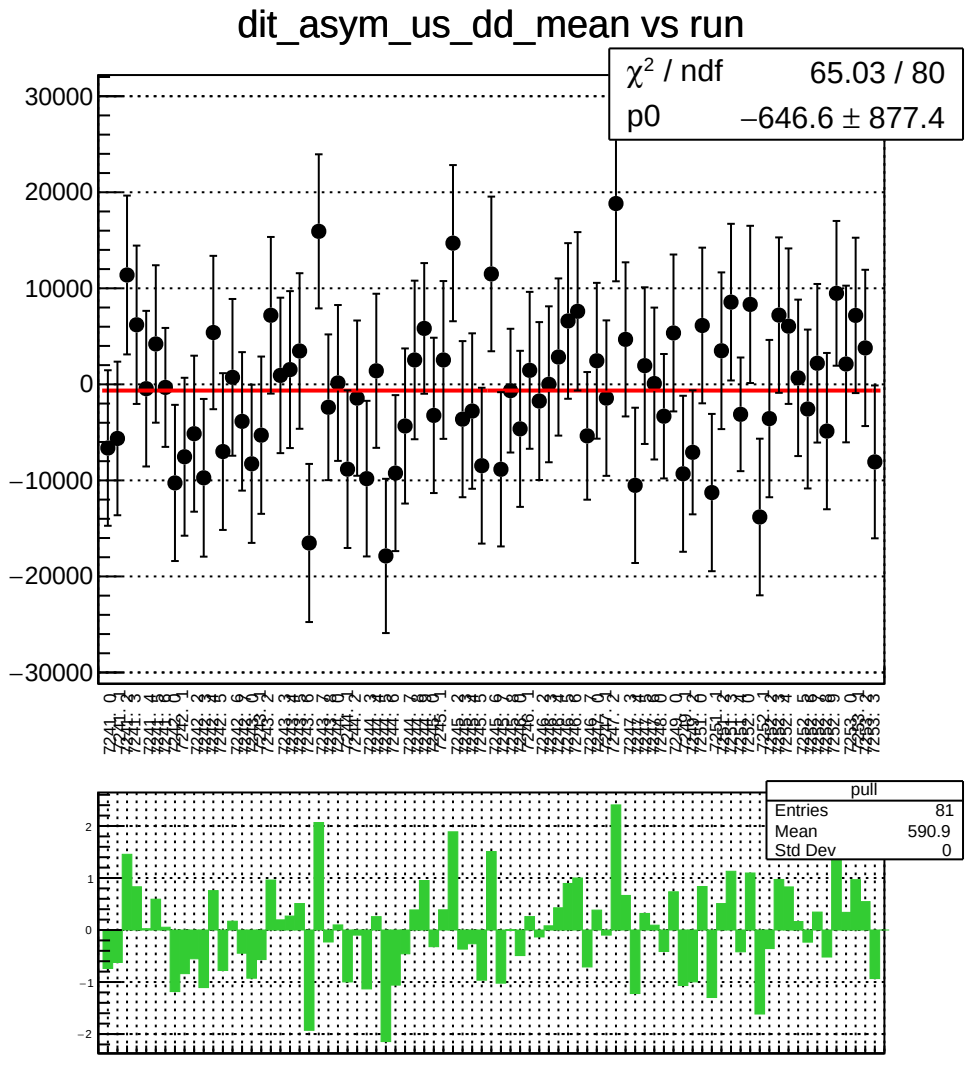

pull1D
Entries 81
Mean 0.005626
Std Dev 0.902

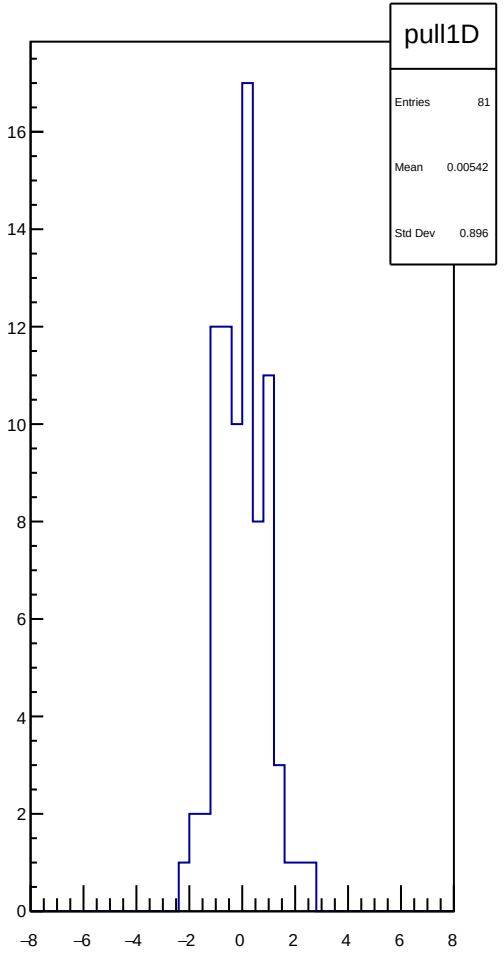

eigen_cor_asym_us_dd_rms vs run
χ² / ndf 99.95 / 80
p0 771.7 ± 0.62
790
785
780
775
770
765
760
755
750

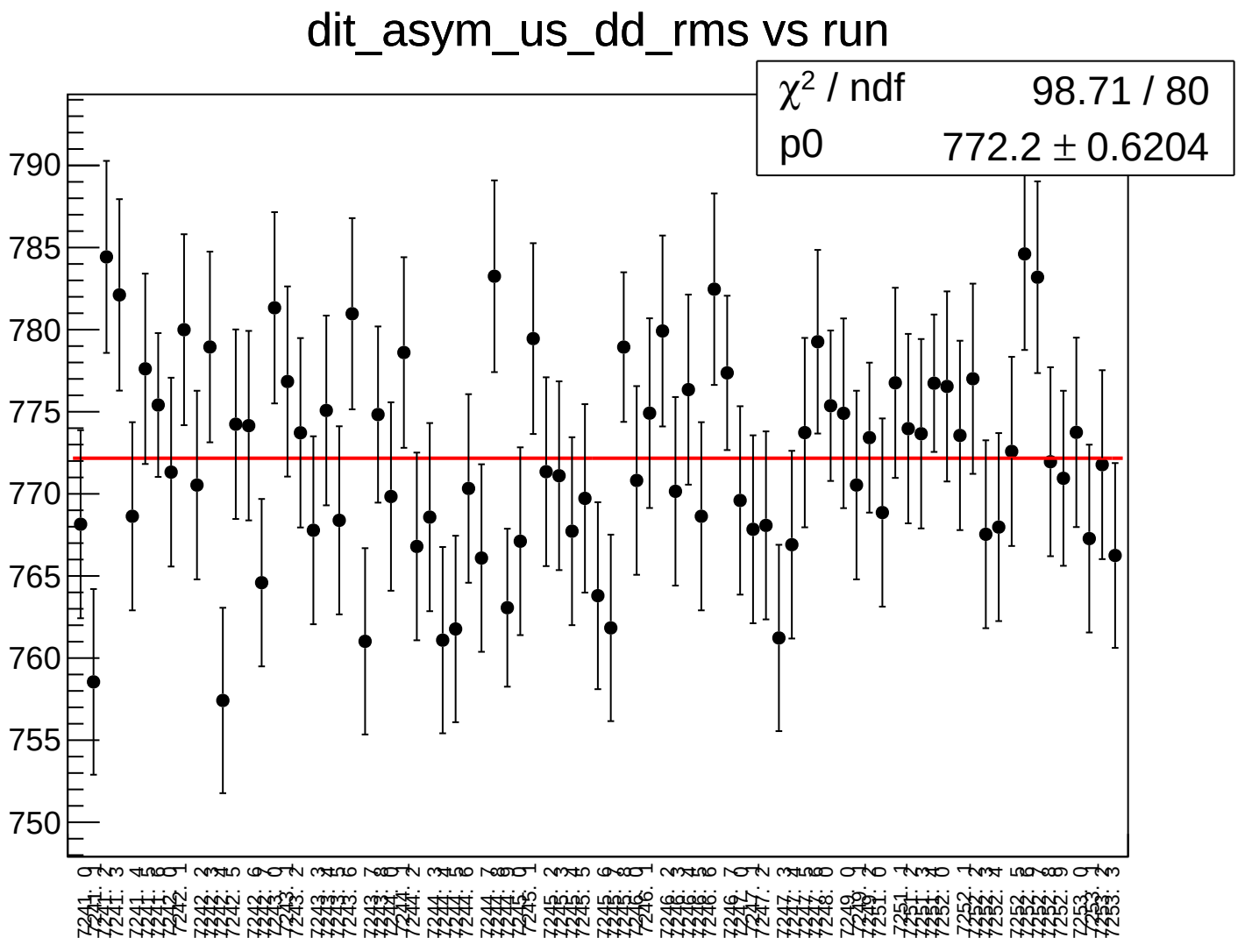

asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 87.14 / 80
p0 −965.8 ± 516.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 81
Mean 122.1
Std Dev 0
2
1
0
−1
−2

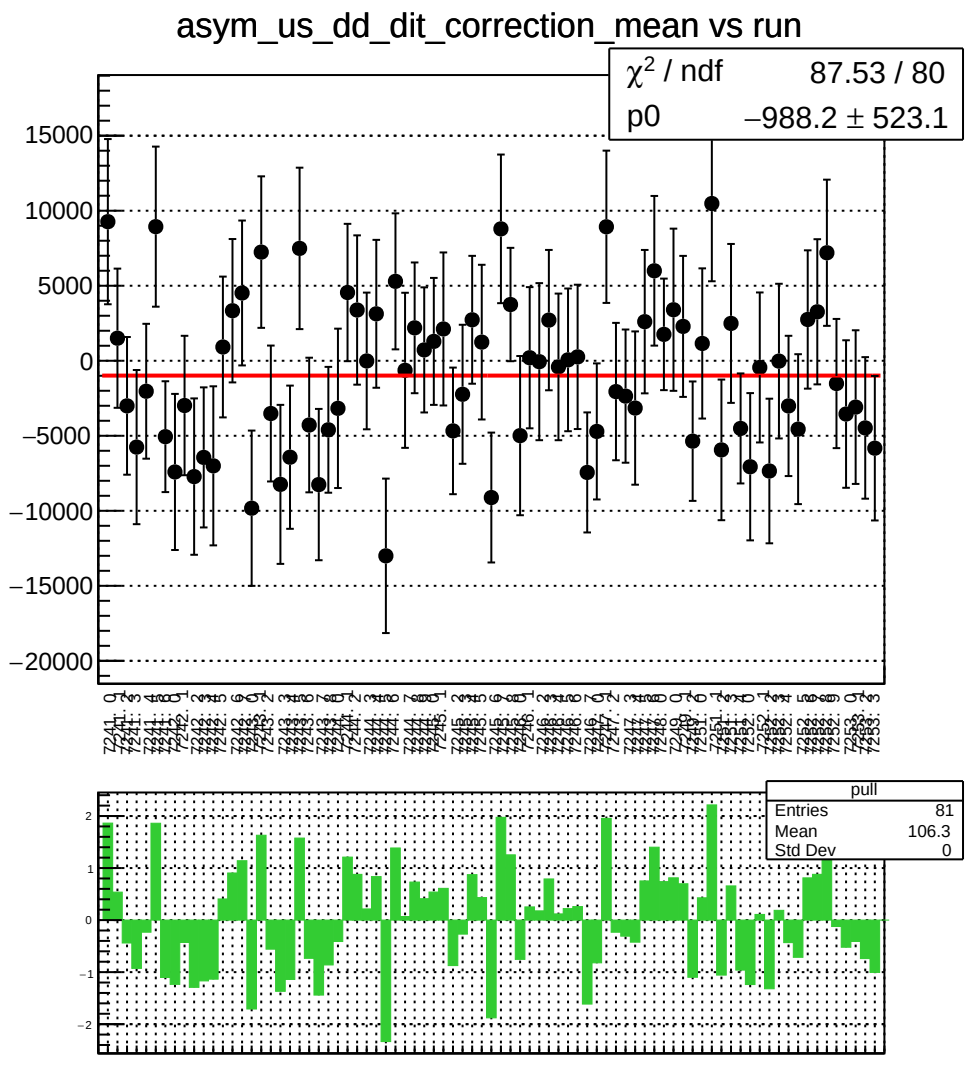

pull1D
Entries 81
Mean 0.01342
Std Dev 1.037
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

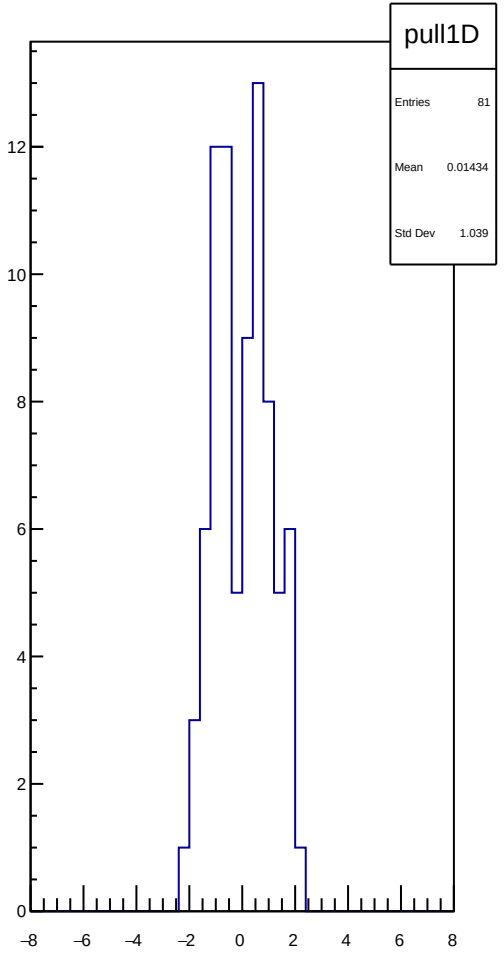

asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 6799 / 80
p0 453.4 ± 0.3651
520
500
480
460
440
420
400
380

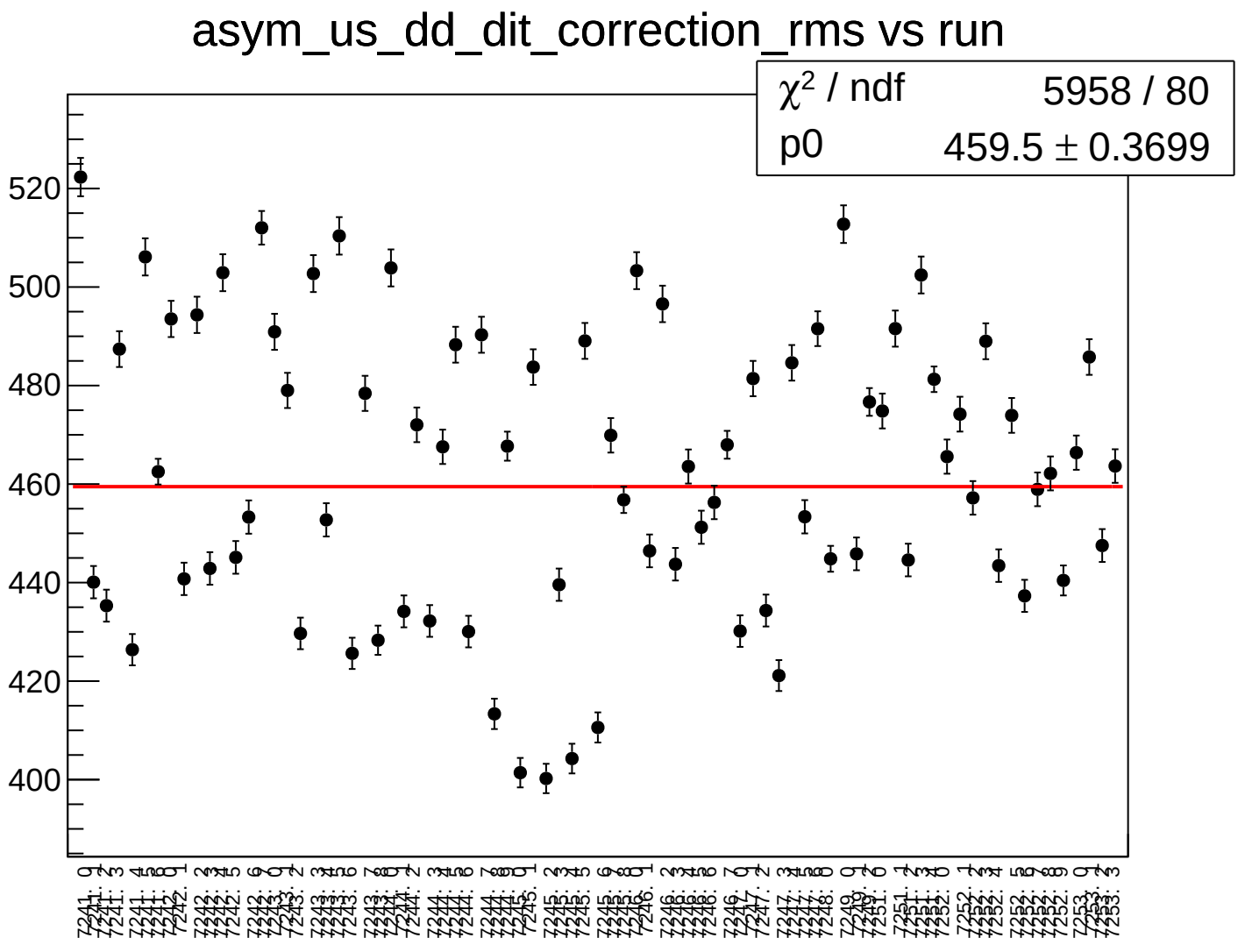

dit_asym_us_dd_mean vs run
χ² / ndf 65.03 / 80
p0 −646.6 ± 877.4
pull
Entries 81
Mean 590.9
Std Dev 0

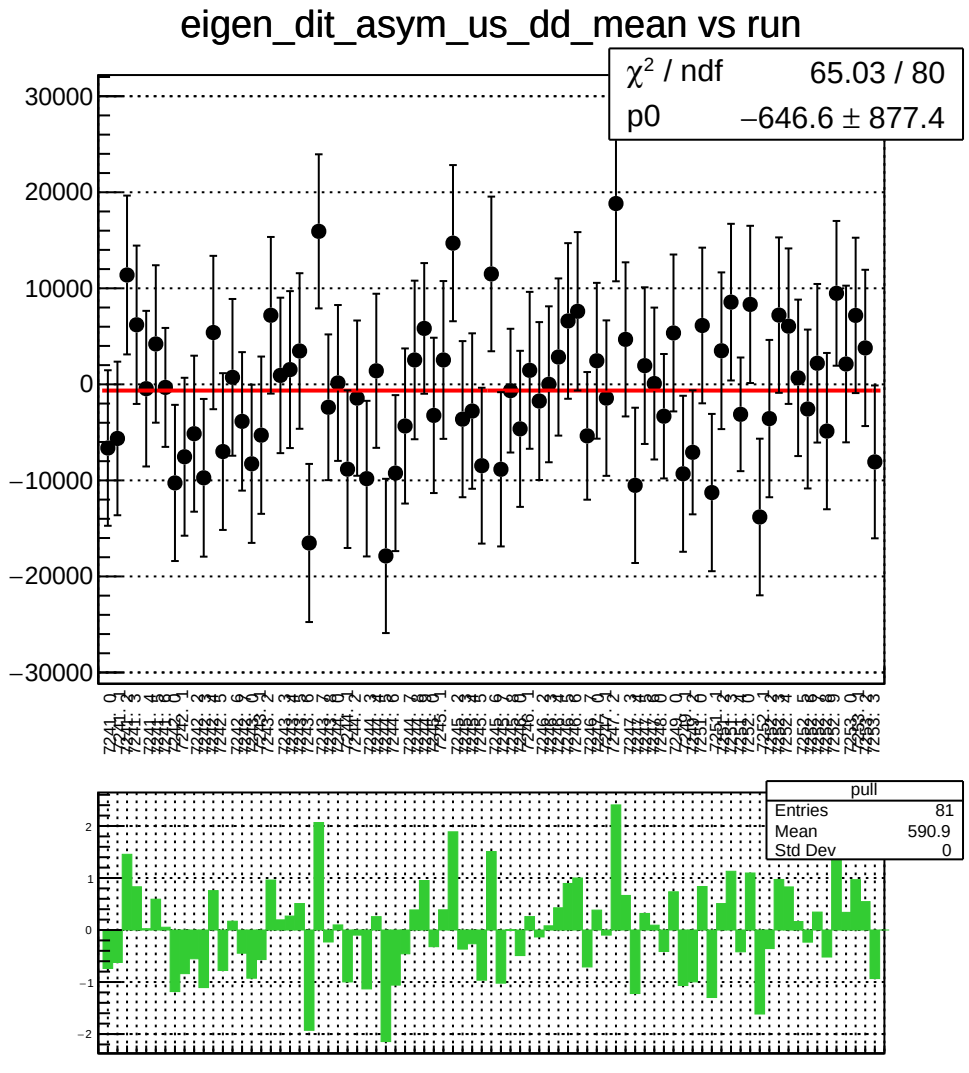

pull1D
Entries 81
Mean 0.00542
Std Dev 0.896

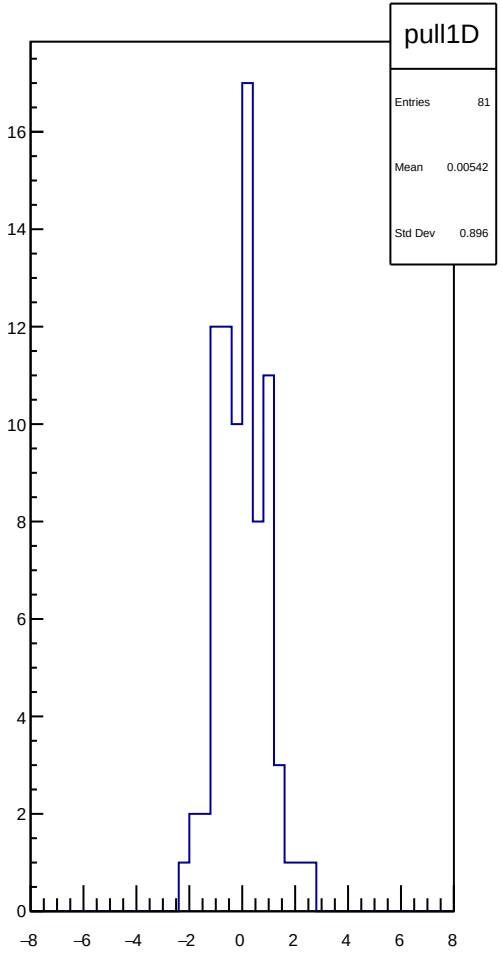

dit_asym_us_dd_rms vs run
χ² / ndf 98.71 / 80
p0 772.2 ± 0.6204
790
785
780
775
770
765
760
755
750

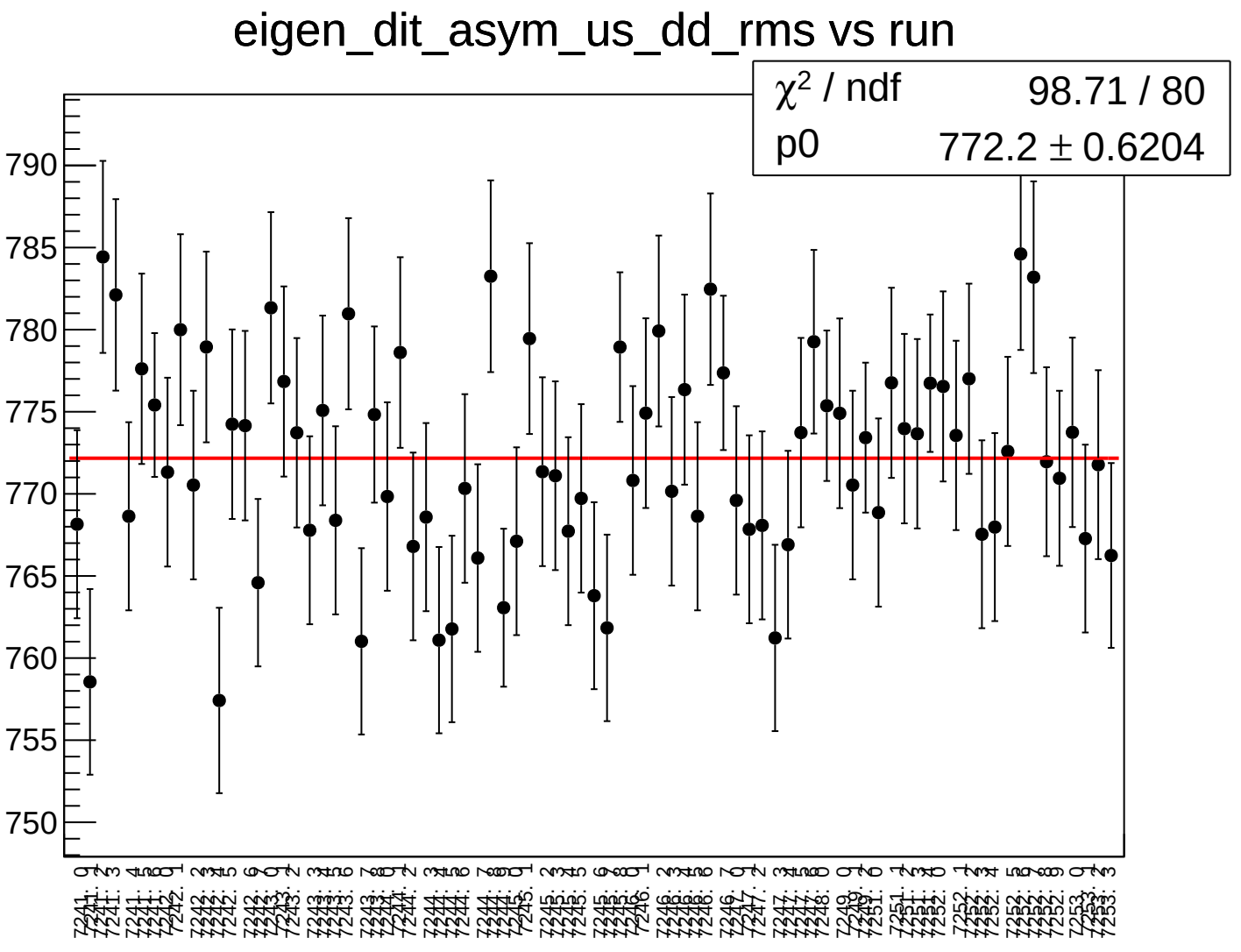

asym_us_dd_dit_correction_mean vs run
χ² / ndf 87.53 / 80
p0 −988.2 ± 523.1
pull
Entries 81
Mean 106.3
Std Dev 0

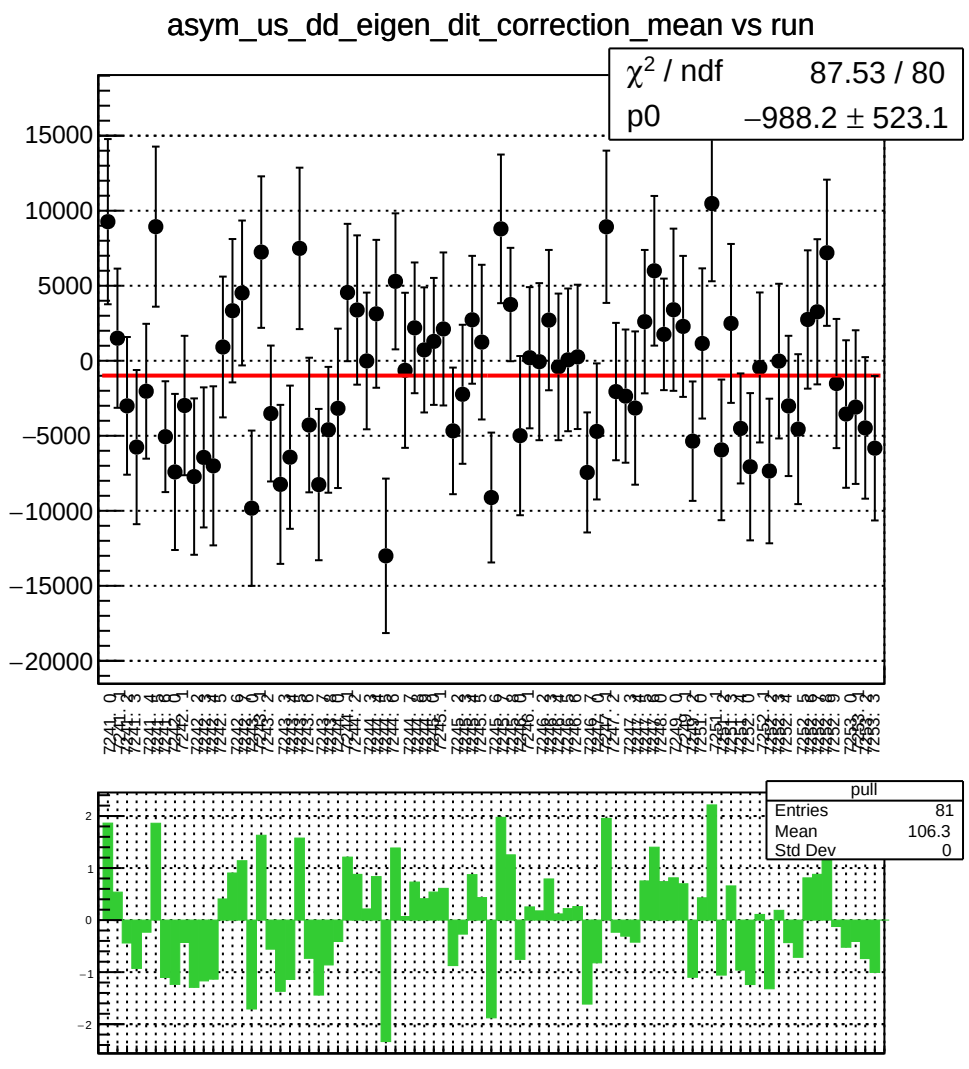

pull1D
Entries 81
Mean 0.01434
Std Dev 1.039

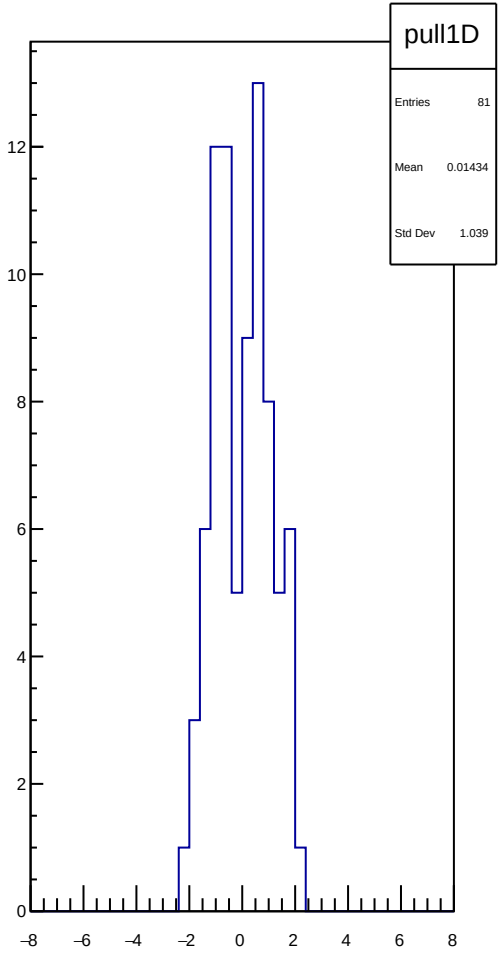

asym_us_dd_dit_correction_rms vs run
χ² / ndf 5958 / 80
p0 459.5 ± 0.3699
520
500
480
460
440
420
400

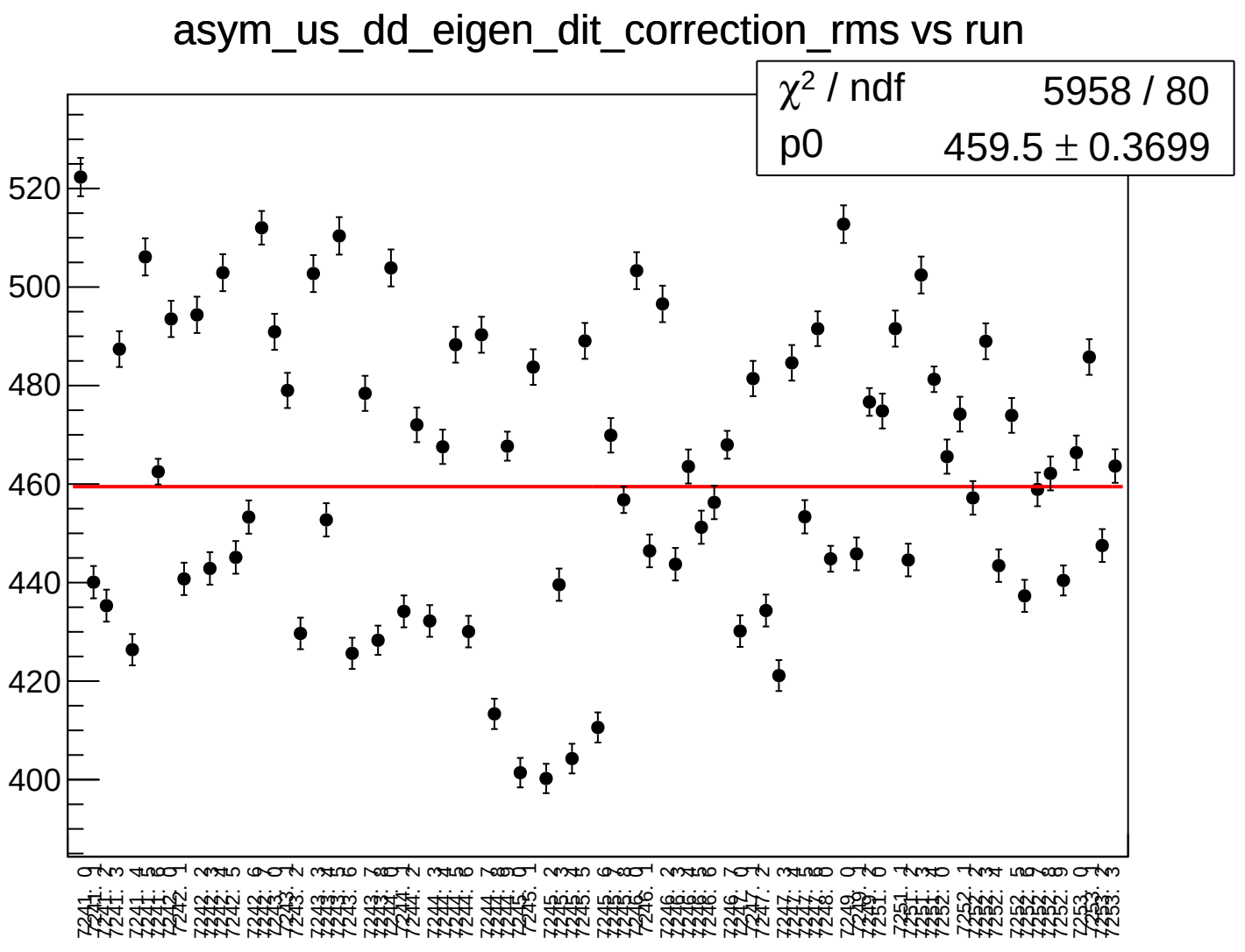

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 65.03 / 80
p0 −646.6 ± 877.4
pull
Entries 81
Mean 590.9
Std Dev 0

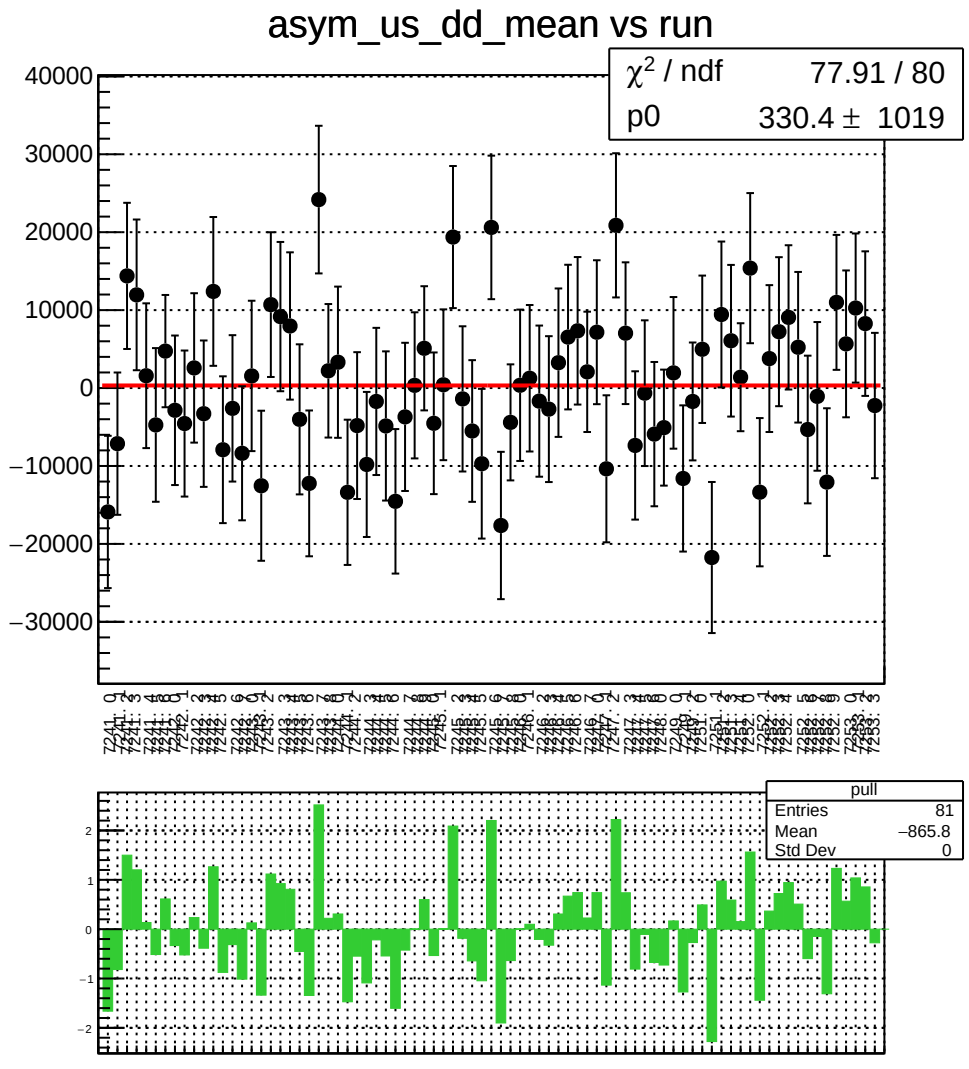

pull1D
Entries 81
Mean 0.00542
Std Dev 0.896

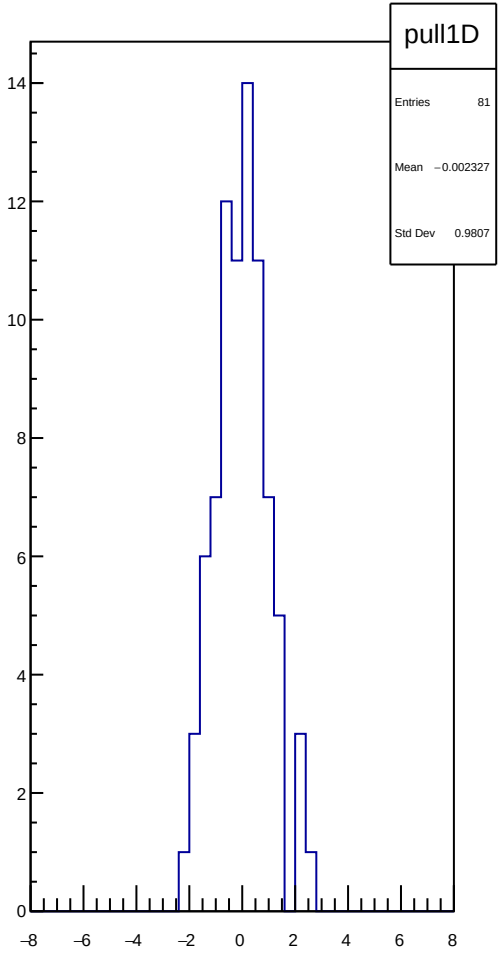

eigen_dit_asym_us_dd_rms vs run
χ² / ndf 98.71 / 80
p0 772.2 ± 0.6204
790
785
780
775
770
765
760
755
750

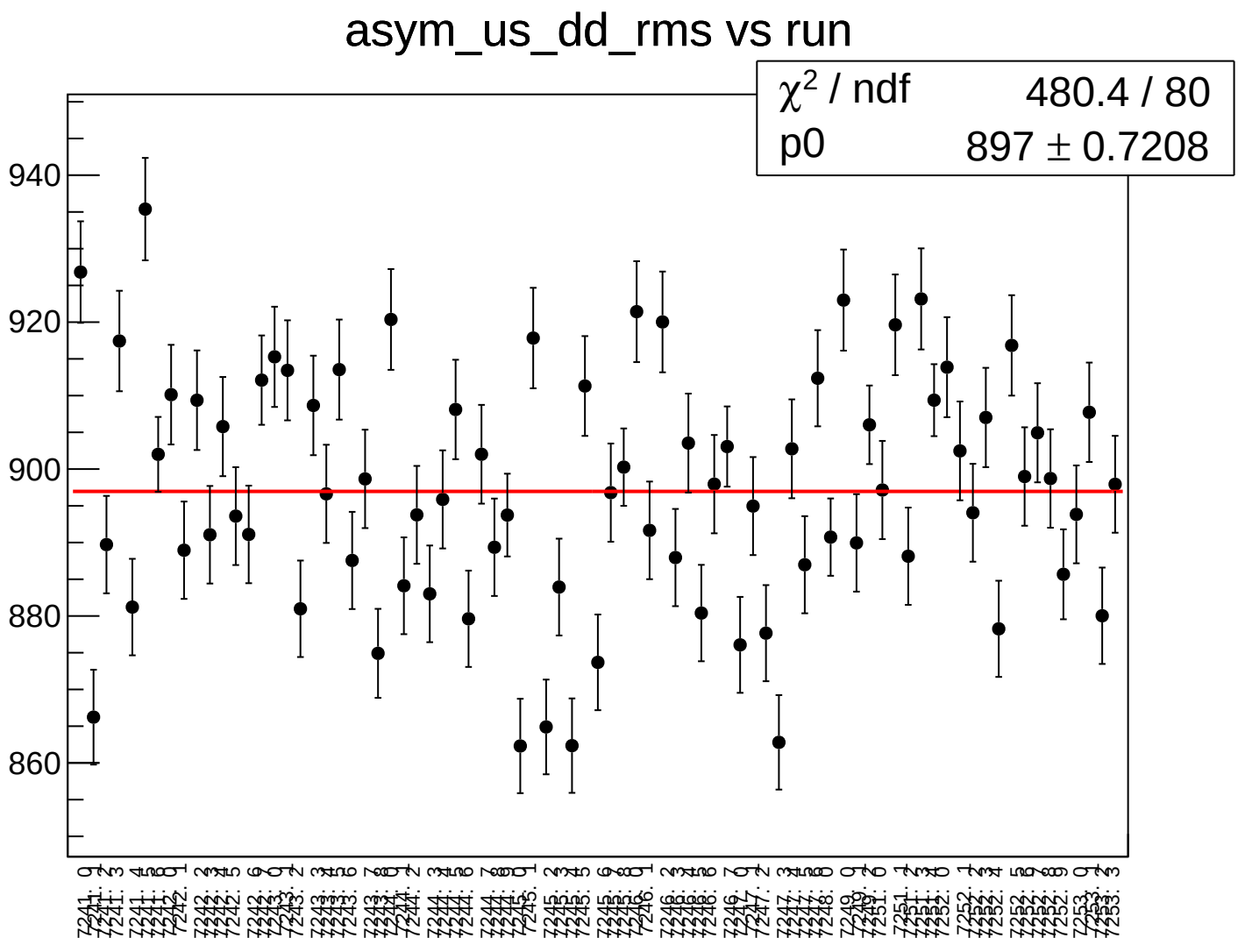

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 87.53 / 80
p0 −988.2 ± 523.1
pull
Entries 81
Mean 106.3
Std Dev 0

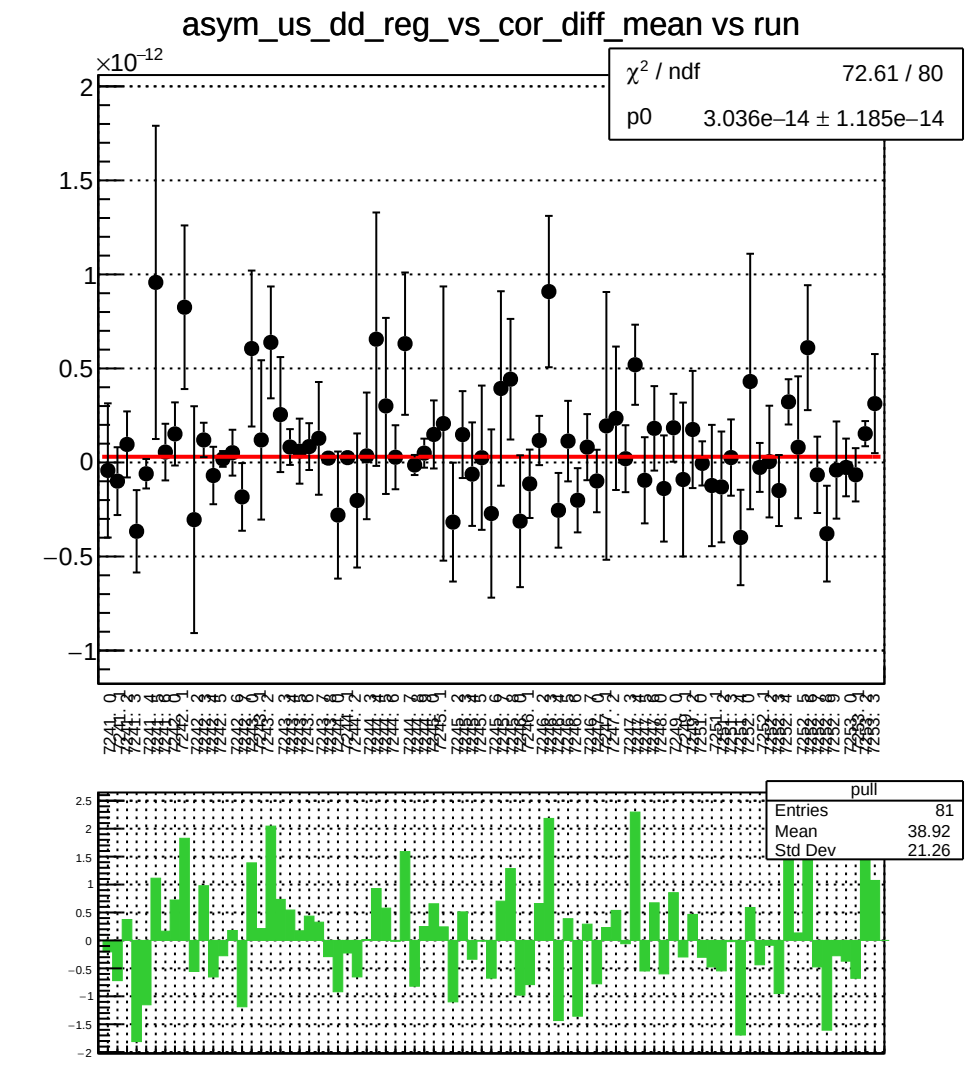

pull1D
Entries 81
Mean 0.01434
Std Dev 1.039

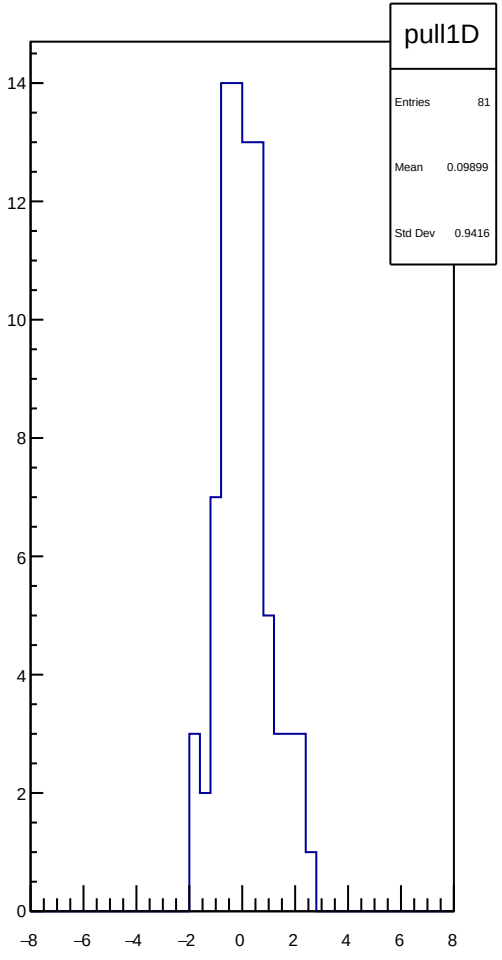

asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 5958 / 80
p0 459.5 ± 0.3699
520
500
480
460
440
420
400

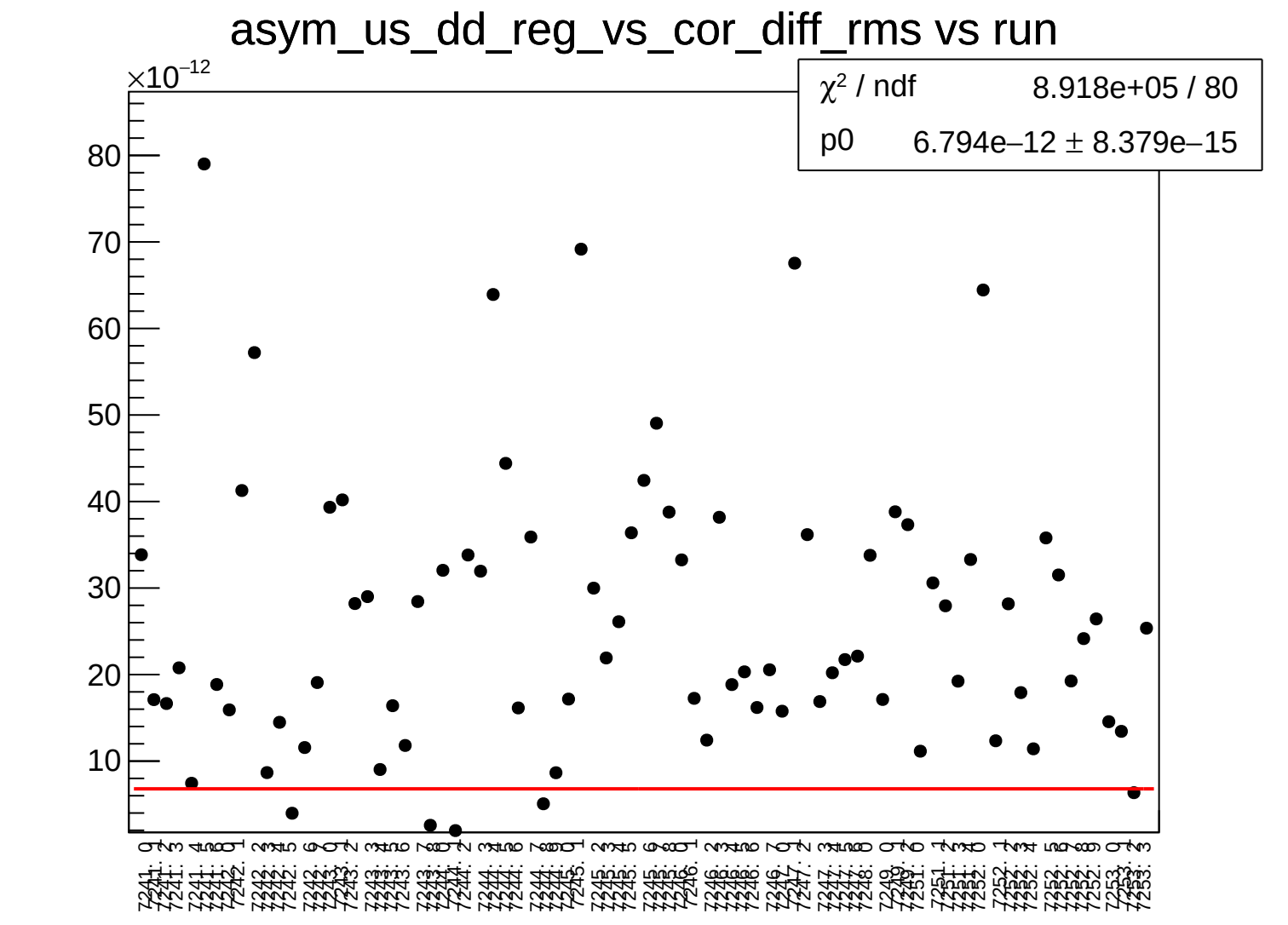

asym_us_dd_mean vs run
χ^2 / ndf 77.91 / 80
p0 330.4 ± 1019
pull
Entries 81
Mean −865.8
Std Dev 0

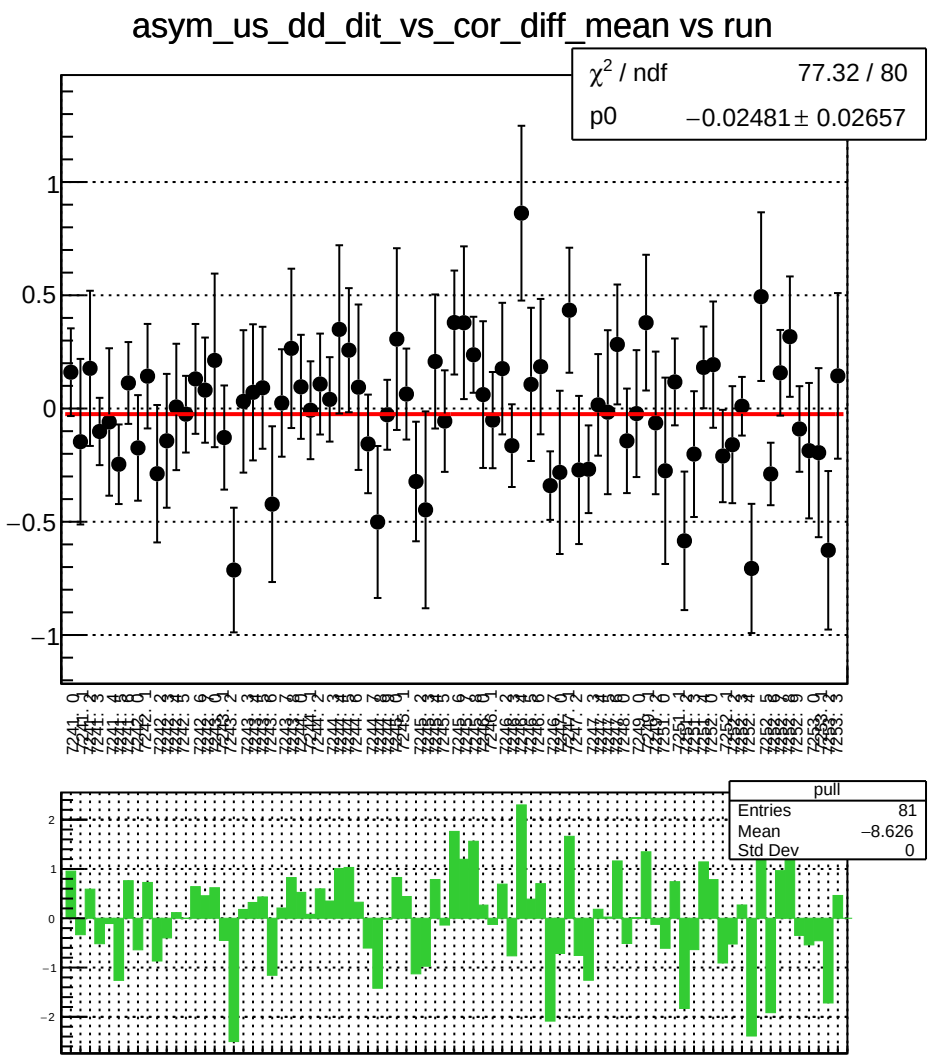

pull1D
Entries 81
Mean −0.002327
Std Dev 0.9807

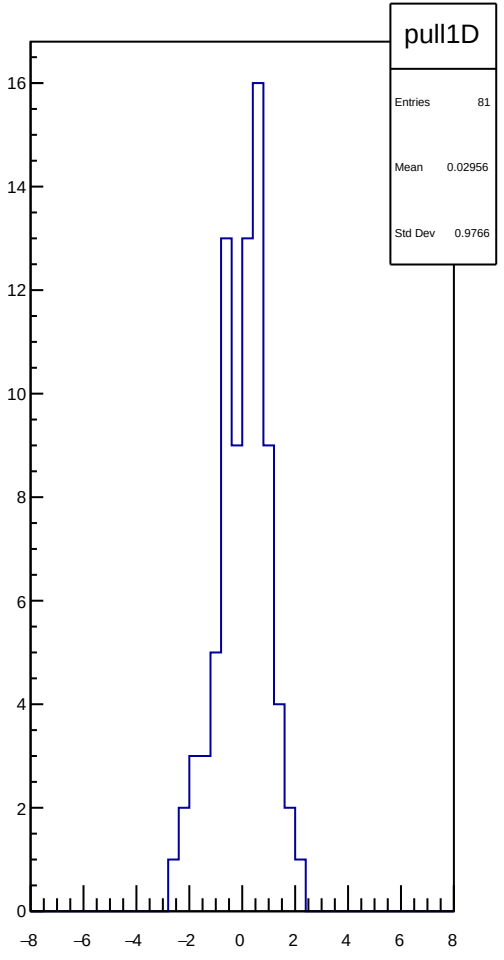

asym_us_dd_rms vs run
χ² / ndf 480.4 / 80
p0 897 ± 0.7208
940
920
900
880
860

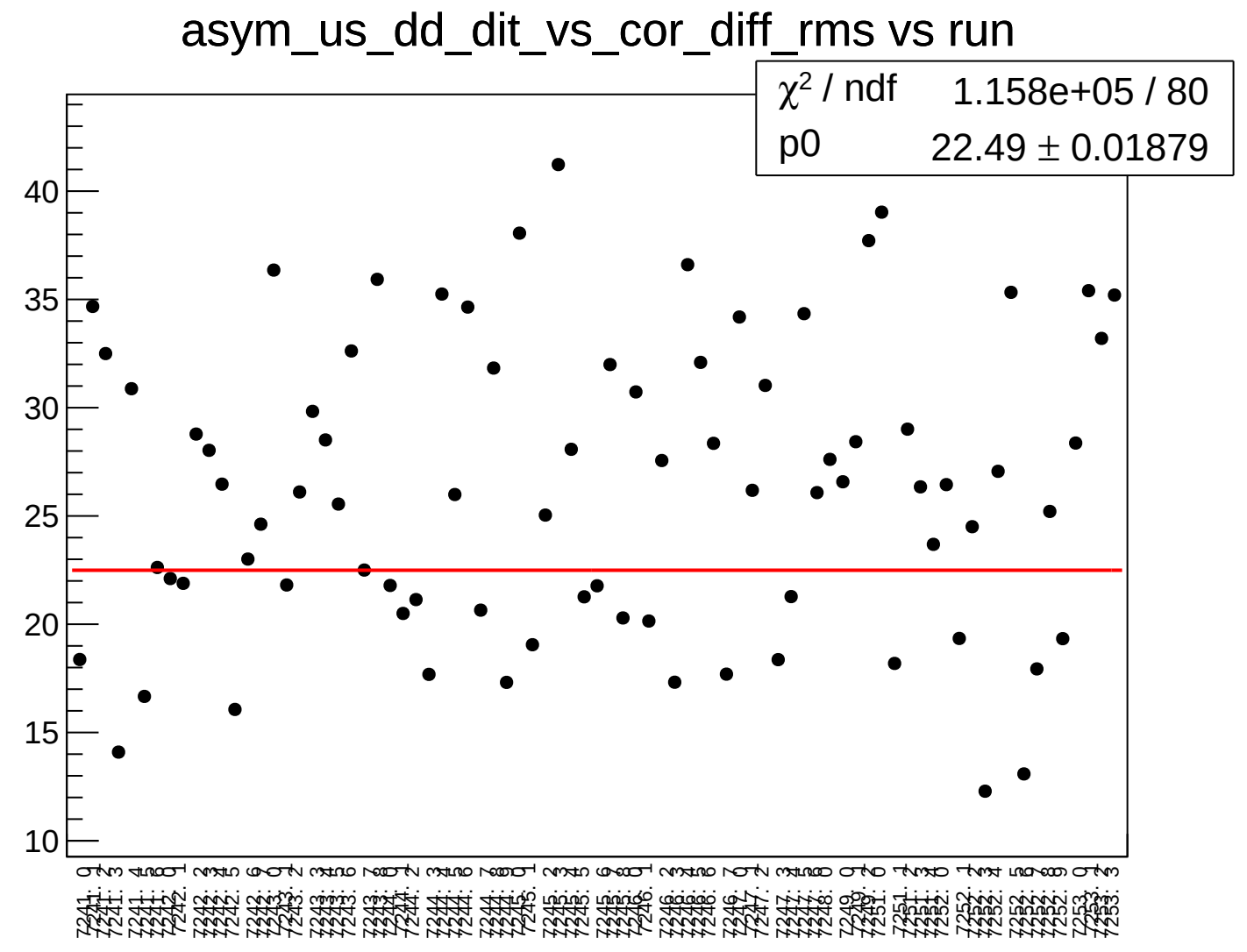

asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.61 / 80
p0 3.036e−14 ± 1.185e−14
pull
Entries 81
Mean 38.92
Std Dev 21.26

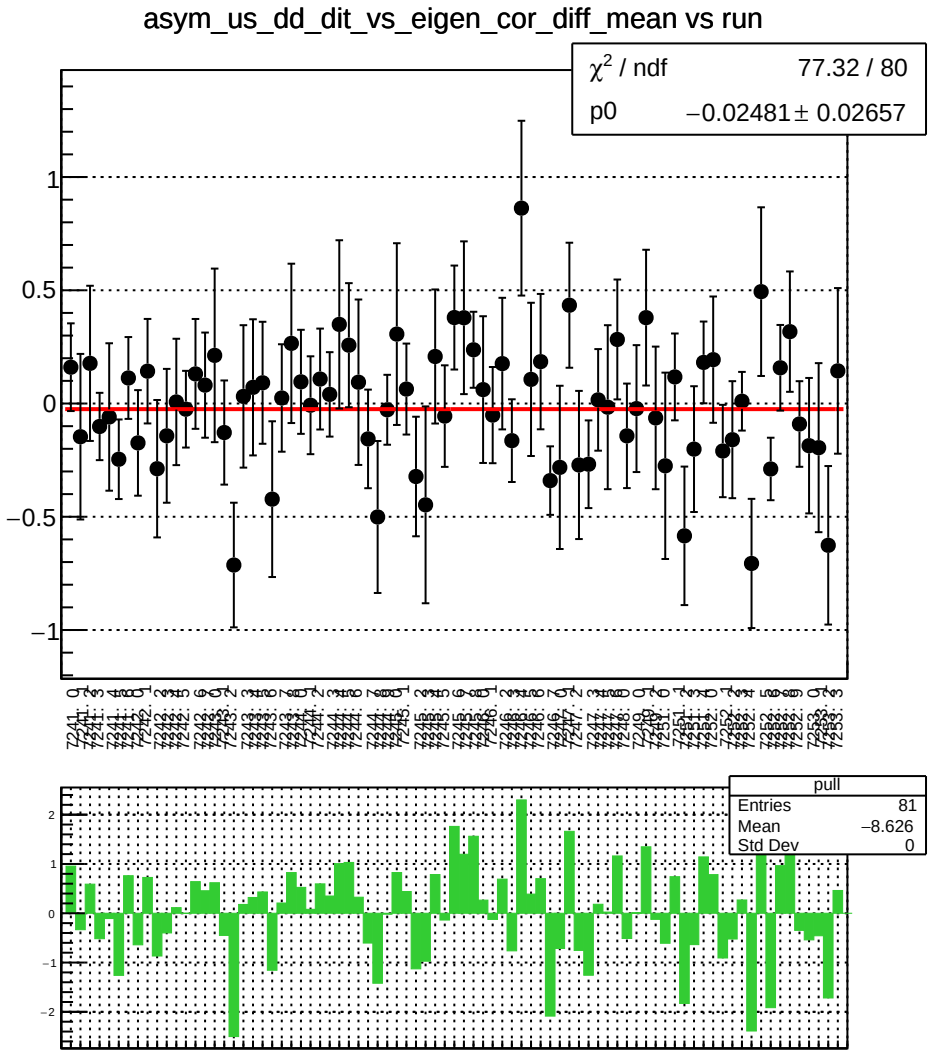

pull1D
Entries 81
Mean 0.09899
Std Dev 0.9416

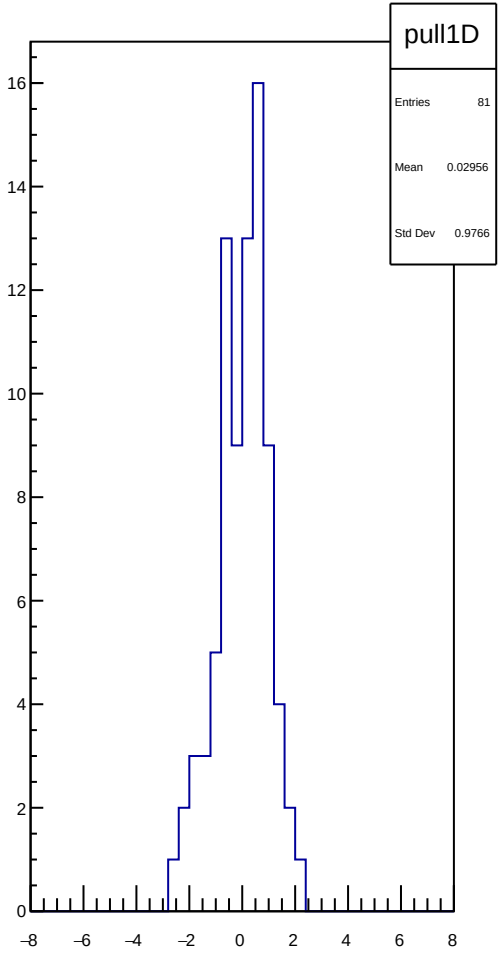

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 8.918e+05 / 80
p0 6.794e−12 ± 8.379e−15
80
70
60
50
40
30
20
10

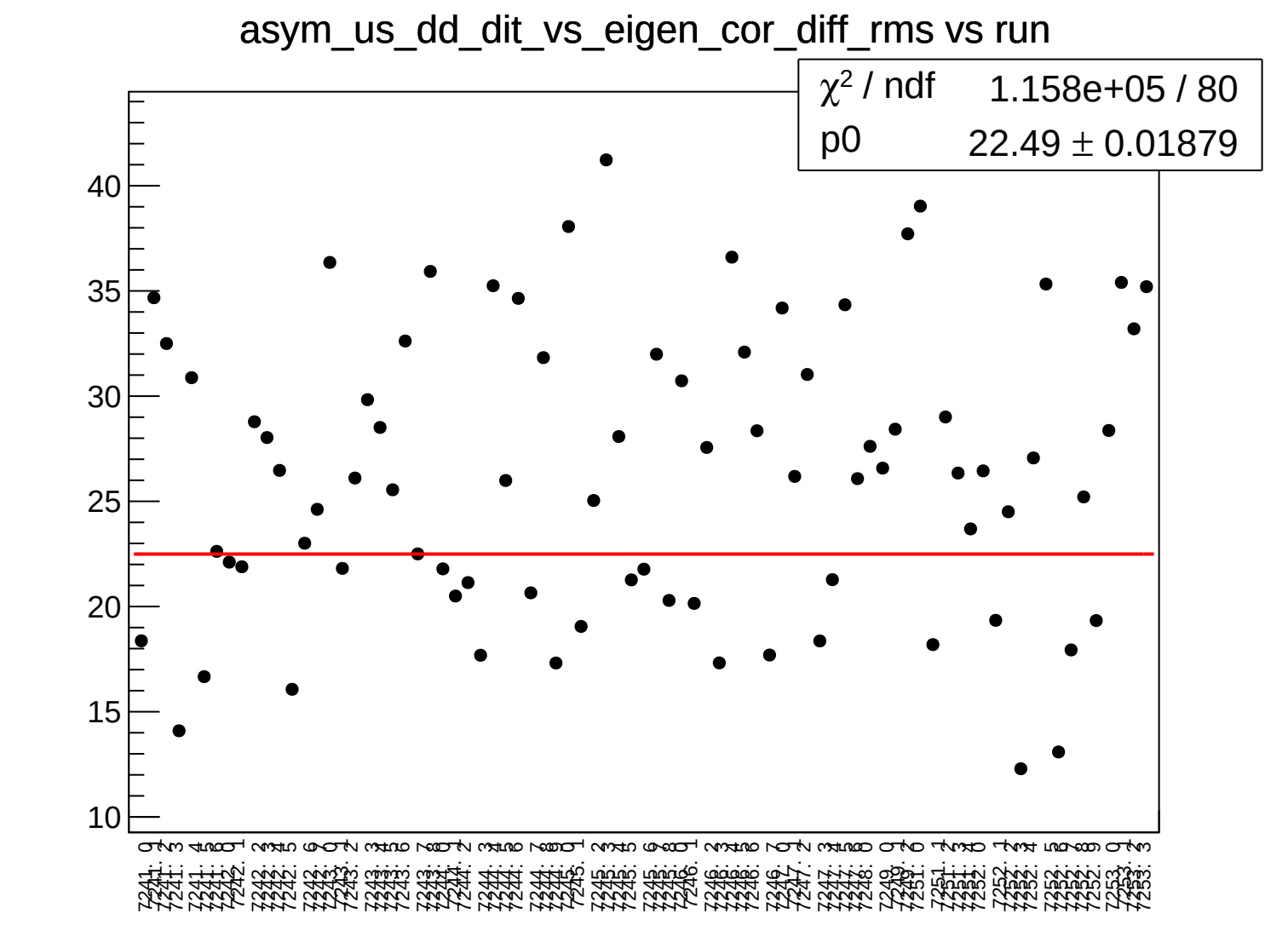

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 77.32 / 80
p0 −0.02481 ± 0.02657
pull
Entries 81
Mean −8.626
Std Dev 0

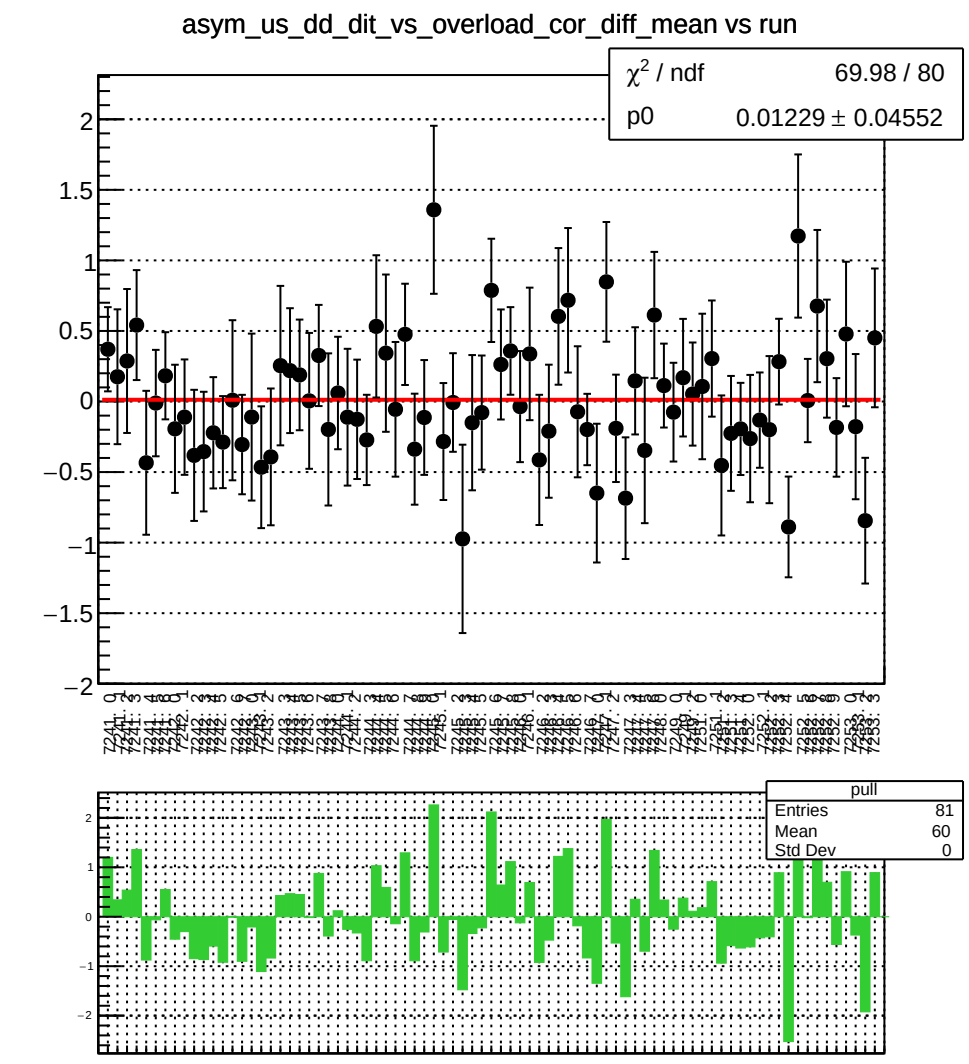

pull1D
Entries 81
Mean 0.02956
Std Dev 0.9766

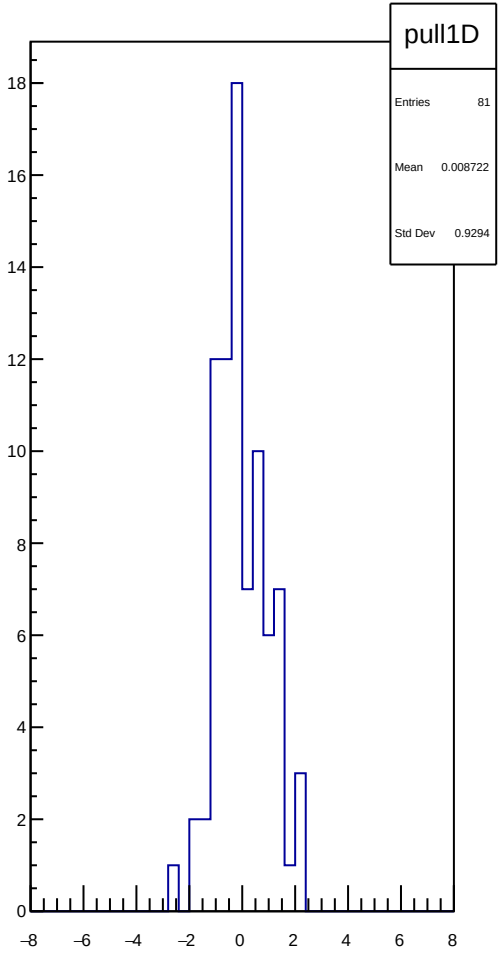

asym_us_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.158e+05 / 80
p0 22.49 ± 0.01879
40
35
30
25
20
15
10

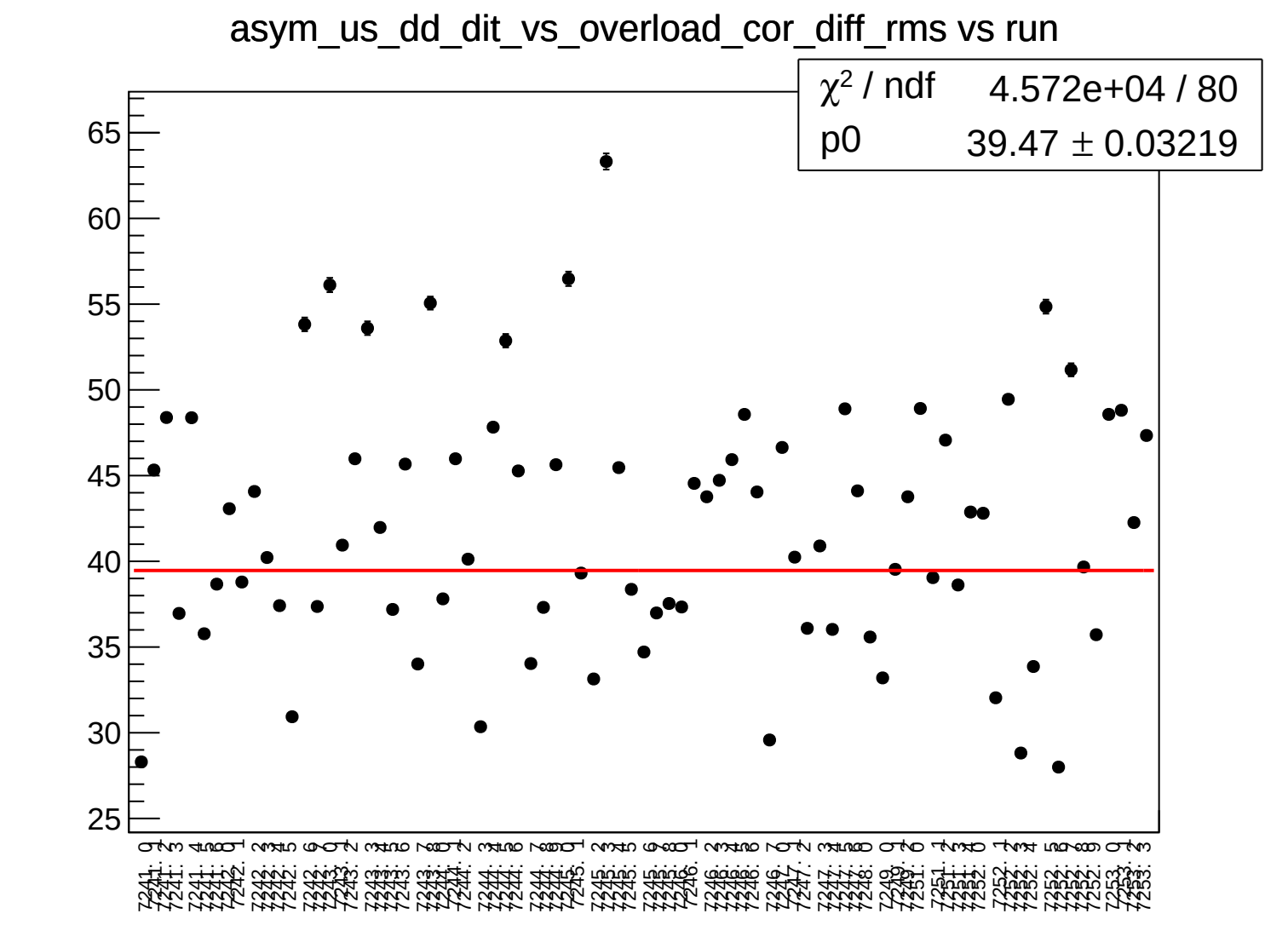

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.32 / 80
p0 −0.02481 ± 0.02657
pull
Entries 81
Mean −8.626
Std Dev 0

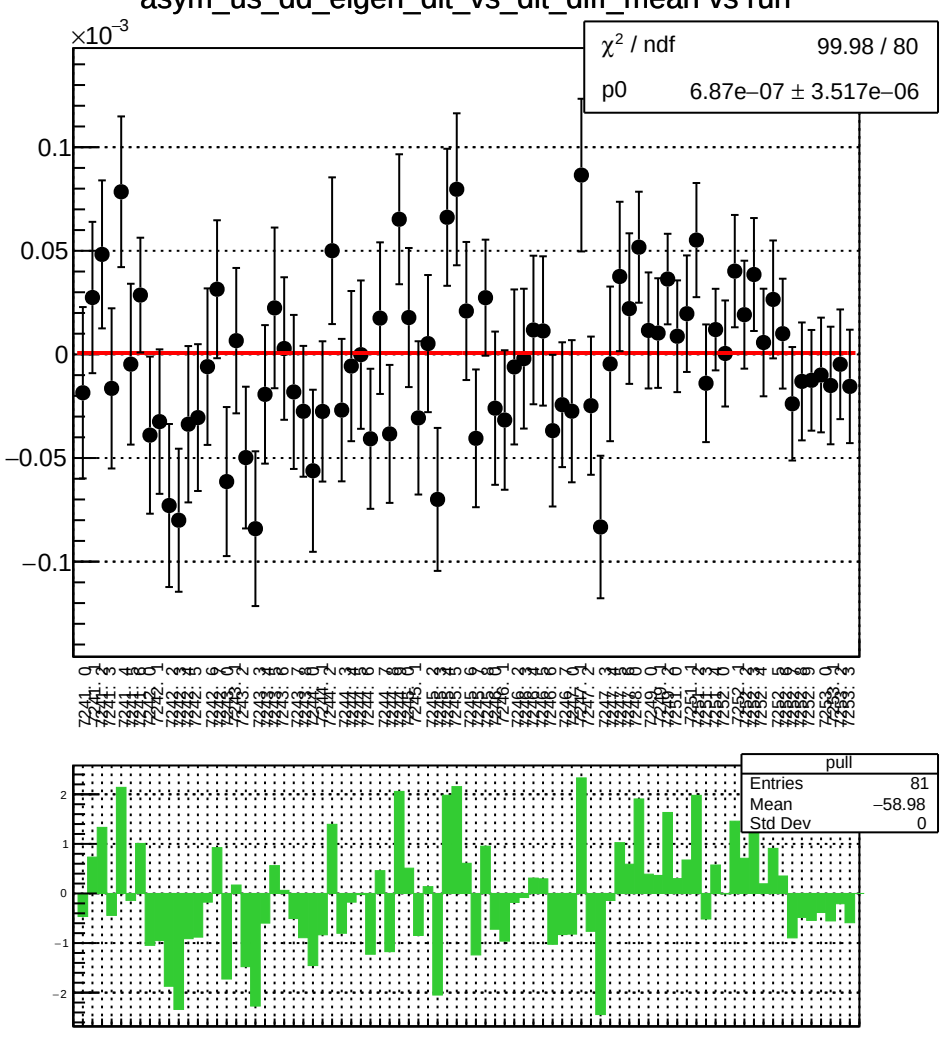

pull1D
Entries 81
Mean 0.02956
Std Dev 0.9766

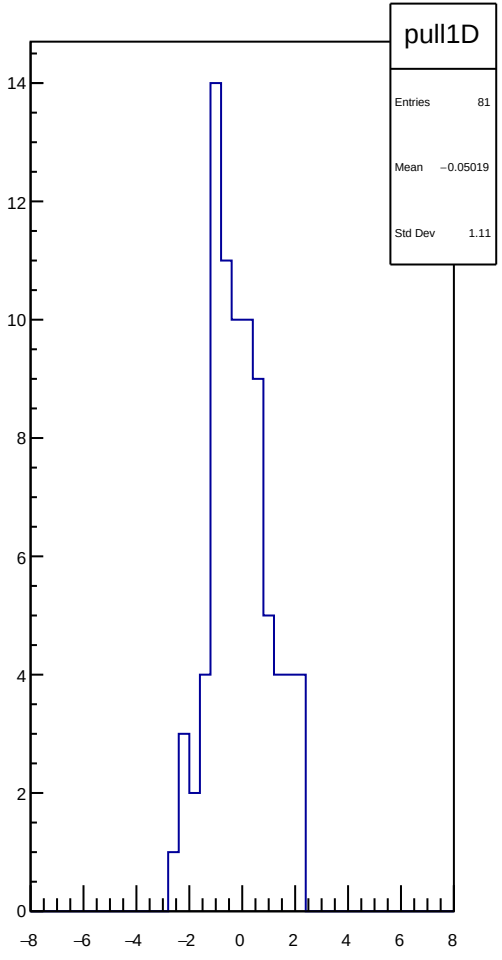

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.158e+05 / 80
p0 22.49 ± 0.01879
40
35
30
25
20
15
10

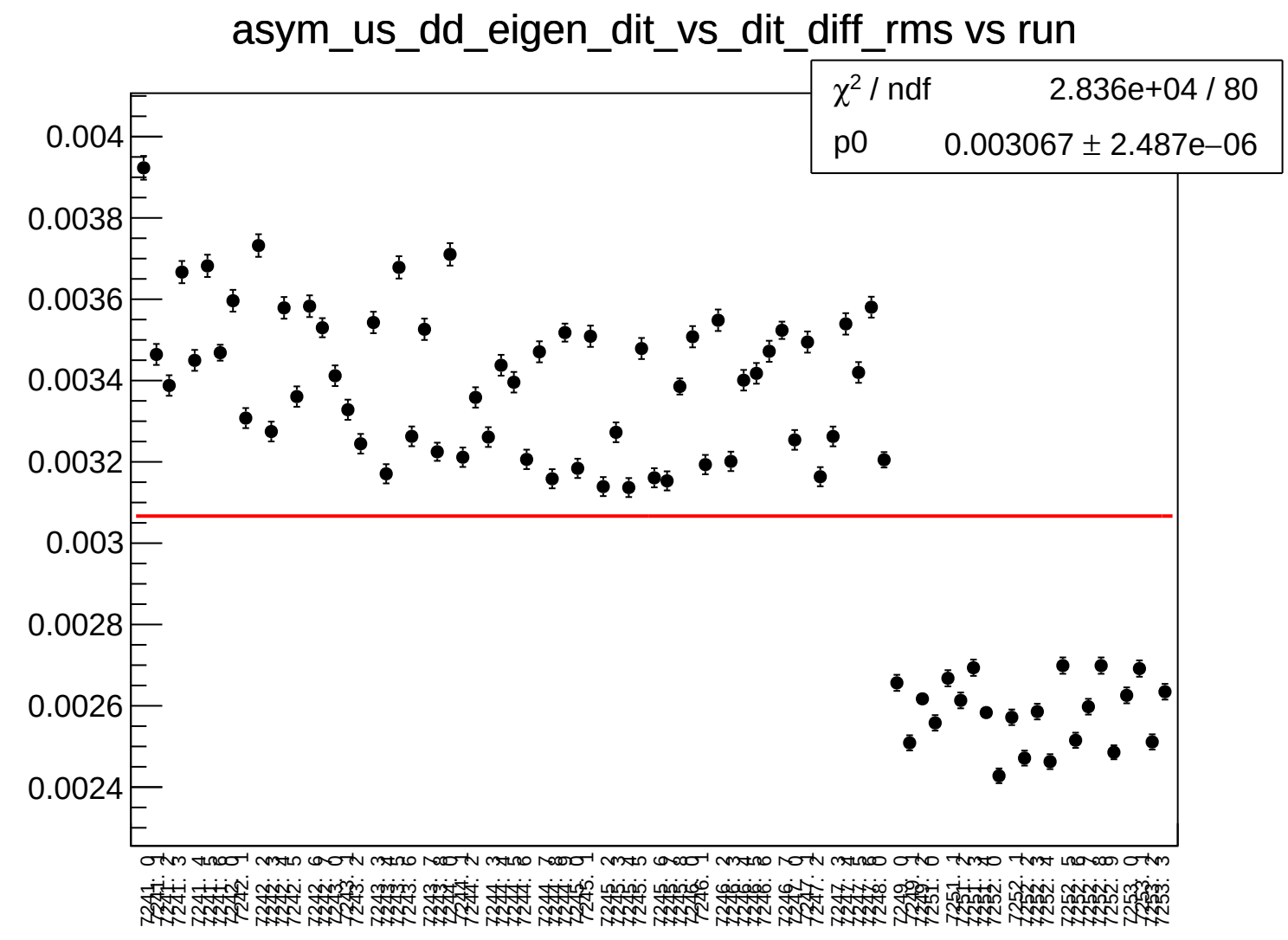

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 69.98 / 80
p0 0.01229 ± 0.04552
pull
Entries 81
Mean 60
Std Dev 0

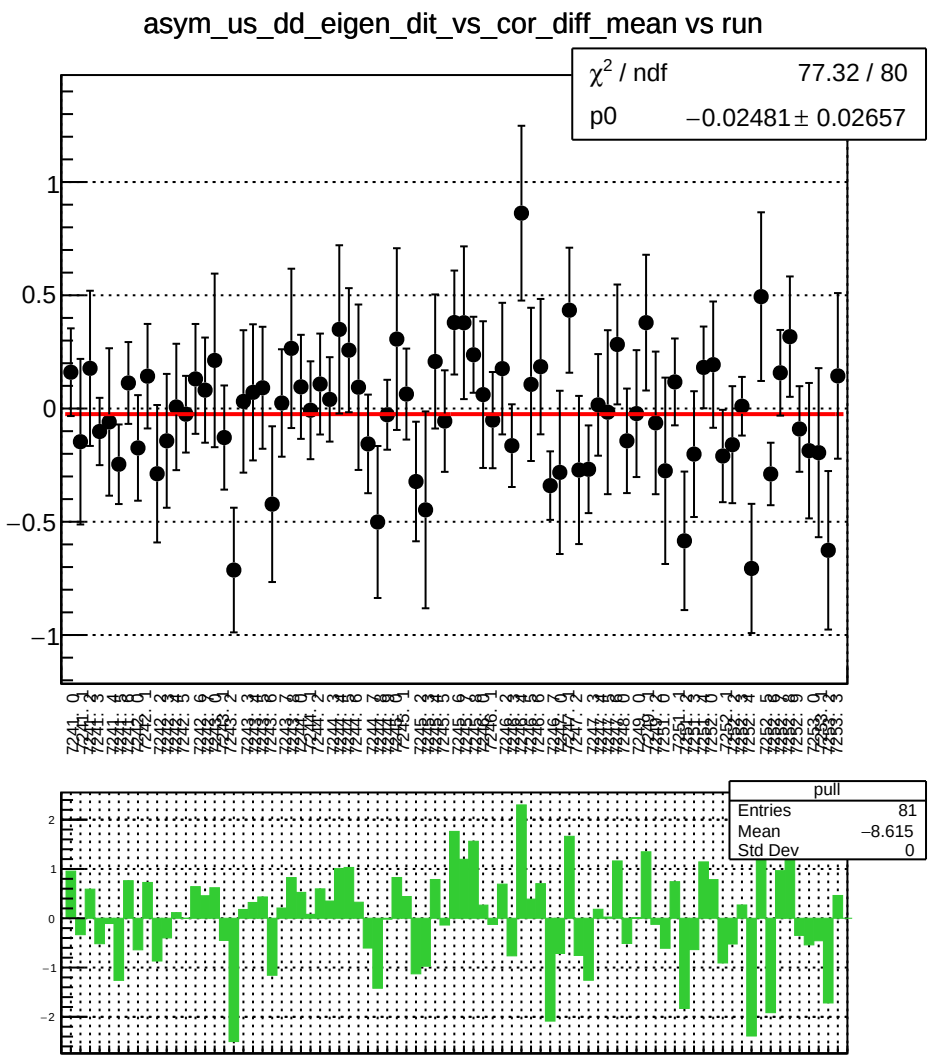

pull1D
Entries 81
Mean 0.008722
Std Dev 0.9294

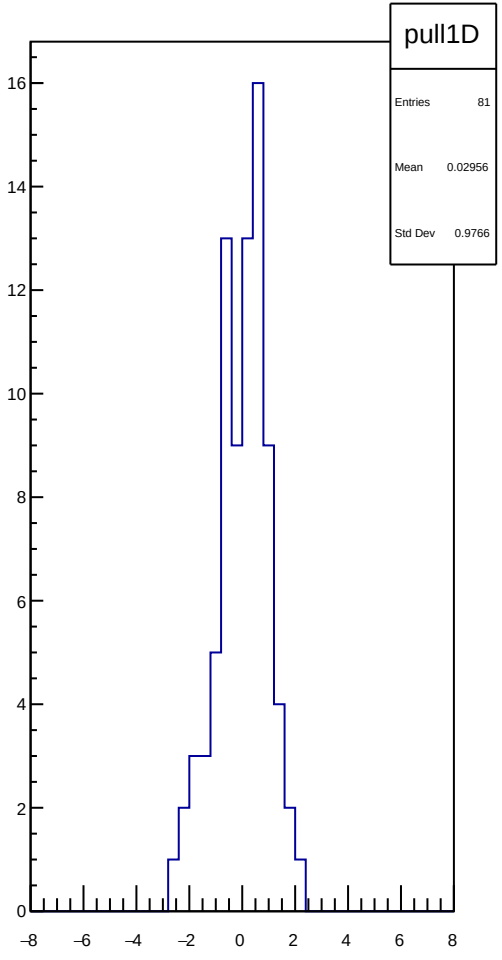

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 4.572e+04 / 80
p0 39.47 ± 0.03219
65
60
55
50
45
40
35
30
25

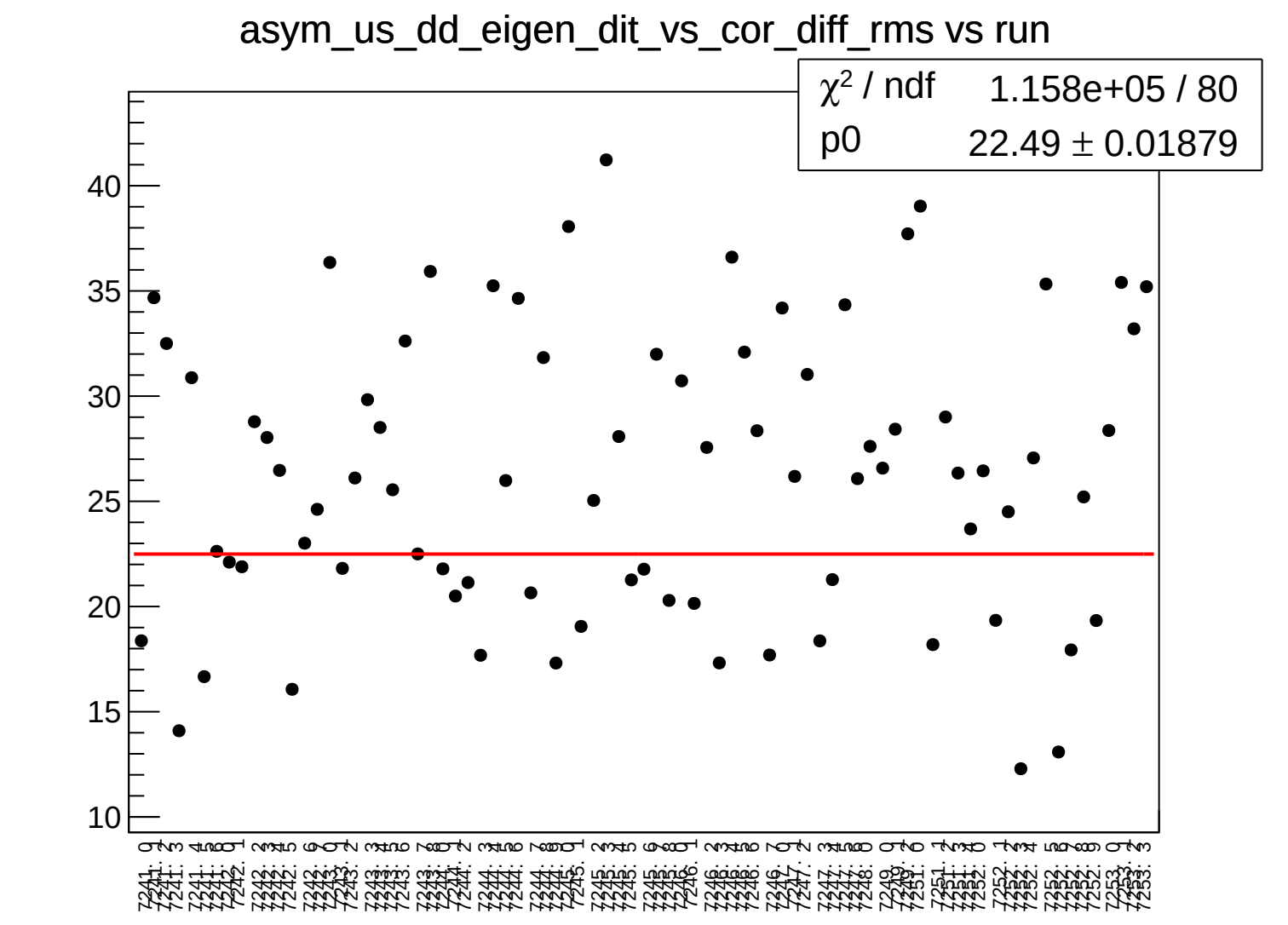

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.98 / 80
p0 6.87e−07 ± 3.517e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 81
Mean −58.98
Std Dev 0
2
1
0
−1
−2

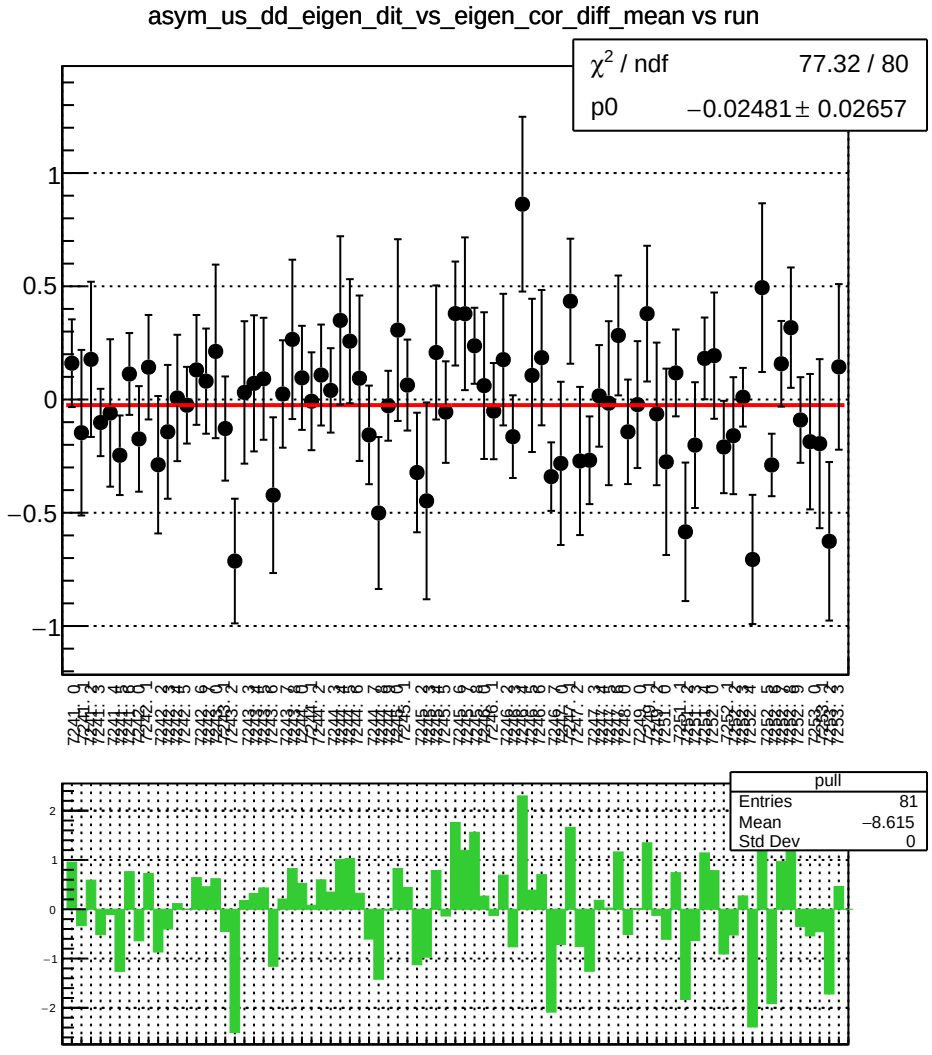

pull1D
Entries 81
Mean −0.05019
Std Dev 1.11
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

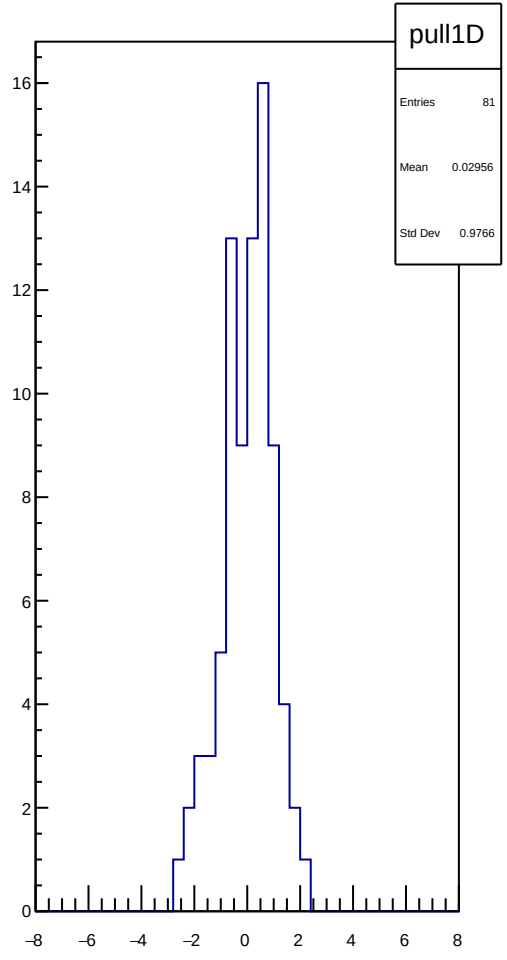

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.836e+04 / 80
p0 0.003067 ± 2.487e−06
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024

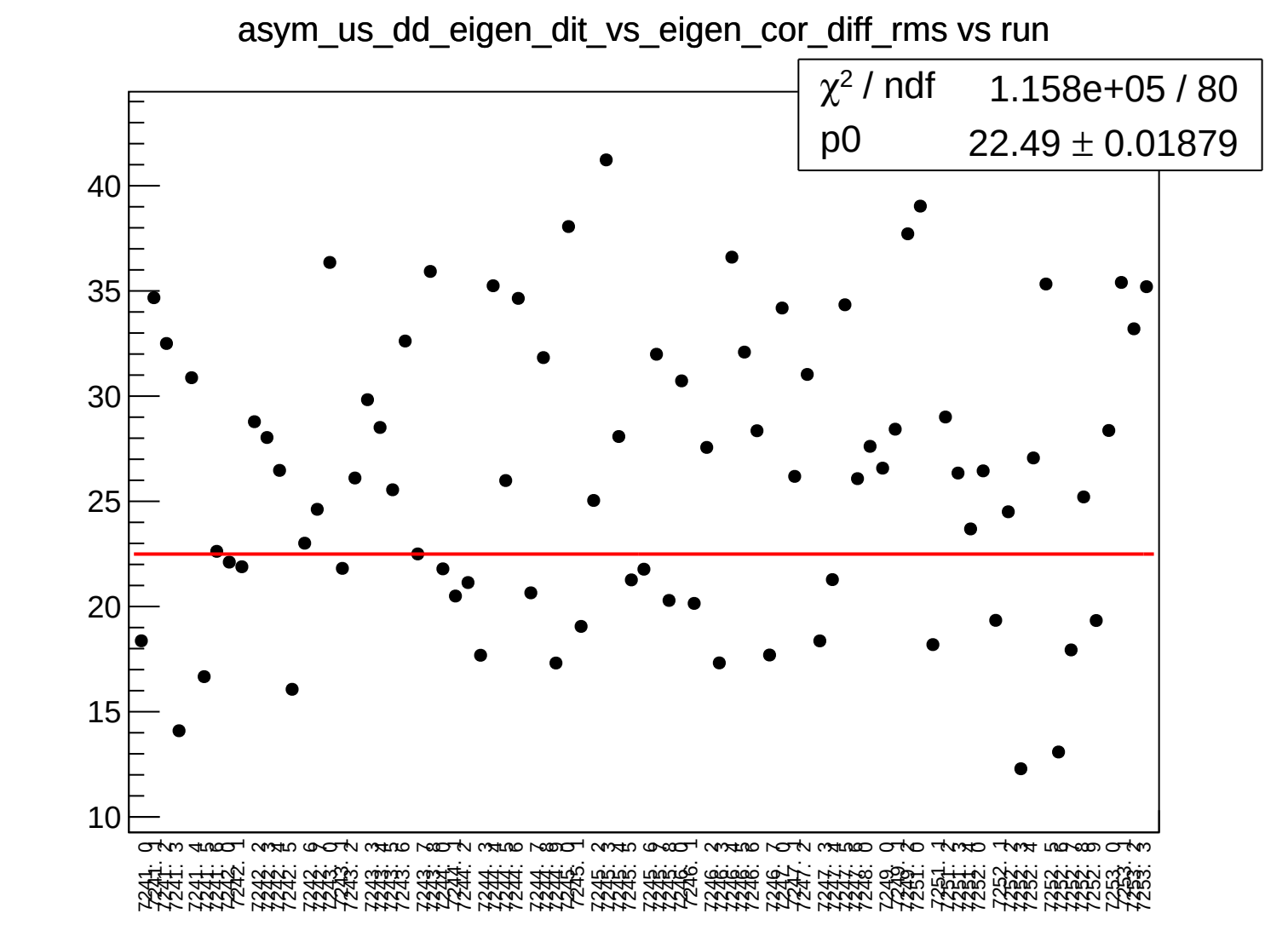

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.32 / 80
p0 −0.02481 ± 0.02657
pull
Entries 81
Mean −8.615
Std Dev 0

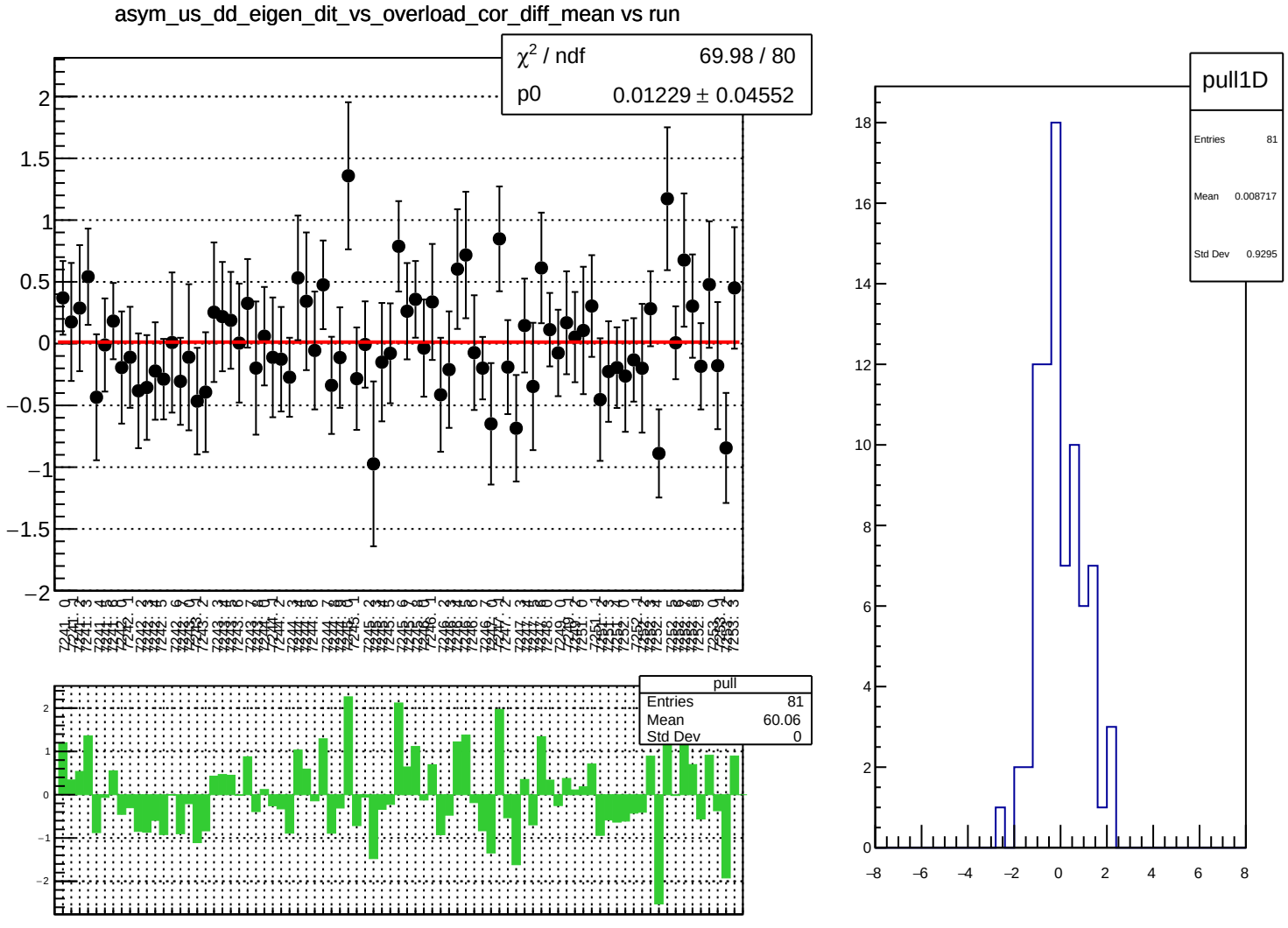

pull1D
Entries 81
Mean 0.02956
Std Dev 0.9766

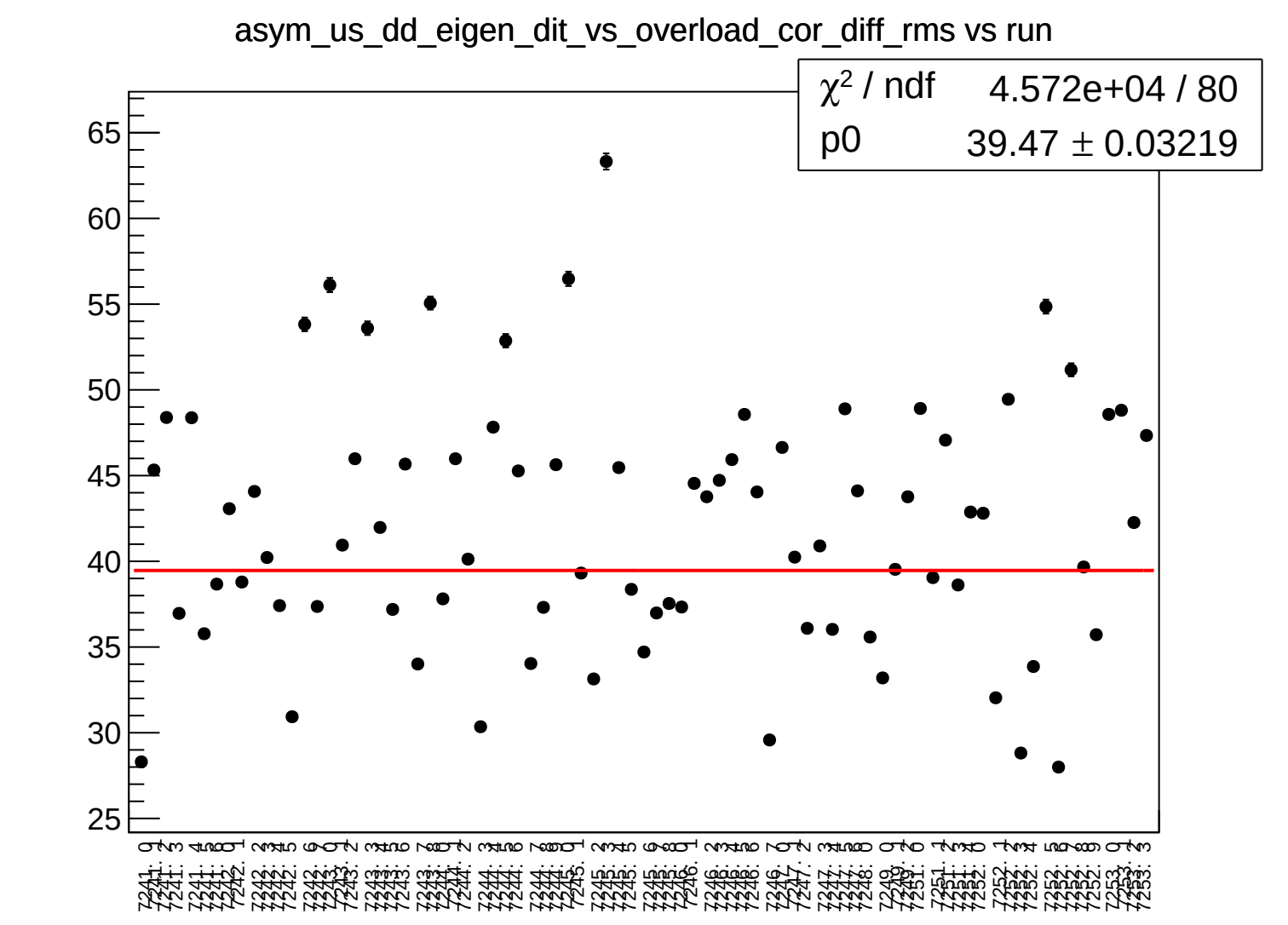

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.158e+05 / 80
p0 22.49 ± 0.01879
40
35
30
25
20
15
10

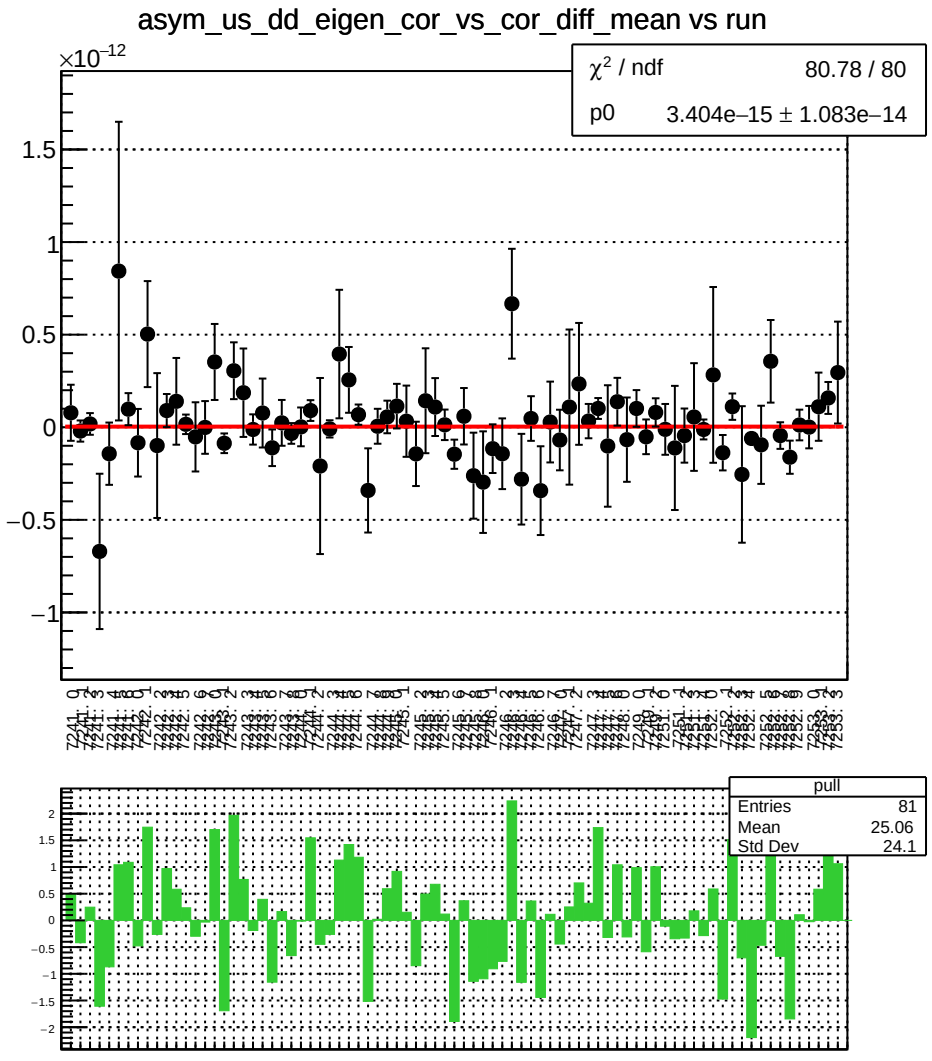

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.32 / 80
p0 −0.02481 ± 0.02657
pull
Entries 81
Mean −8.615
Std Dev 0

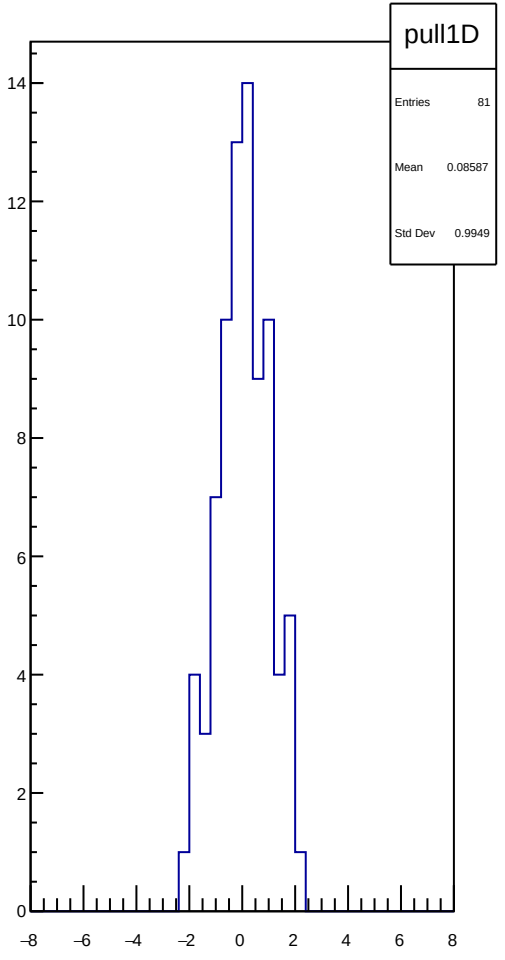

pull1D
Entries 81
Mean 0.02956
Std Dev 0.9766

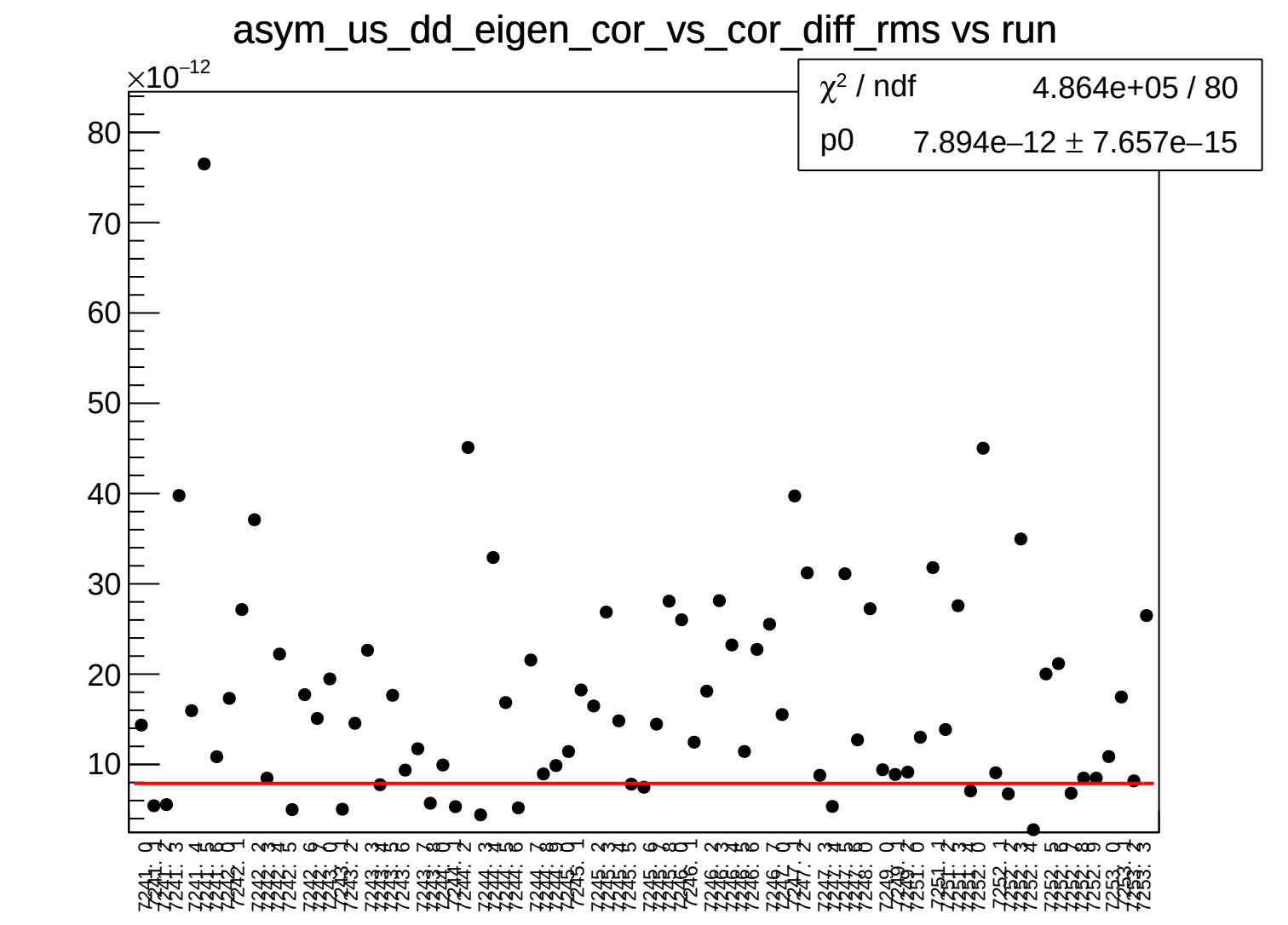

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.158e+05 / 80
p0 22.49 ± 0.01879
40
35
30
25
20
15
10

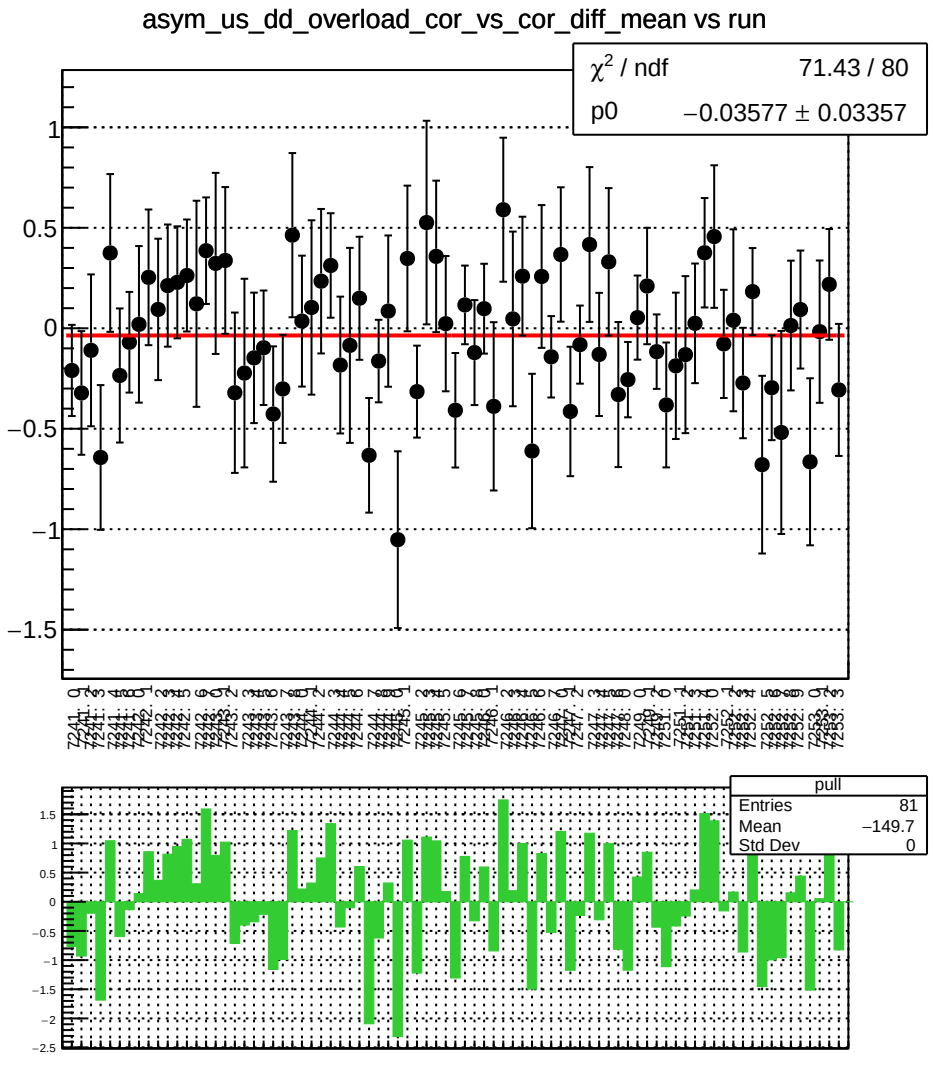

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 69.98 / 80
p0 0.01229 ± 0.04552
pull
Entries 81
Mean 60.06
Std Dev 0
pull1D
Entries 81
Mean 0.008717
Std Dev 0.9295

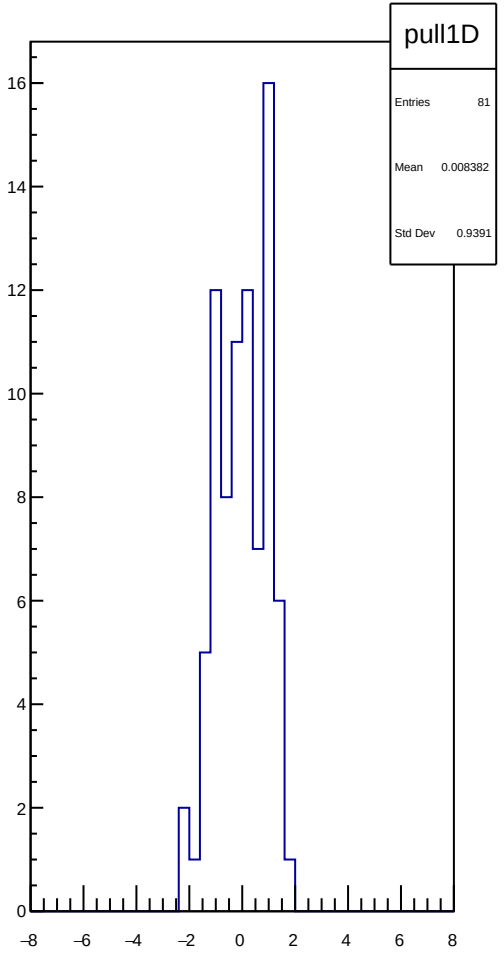

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 4.572e+04 / 80
p0 39.47 ± 0.03219
65
60
55
50
45
40
35
30
25

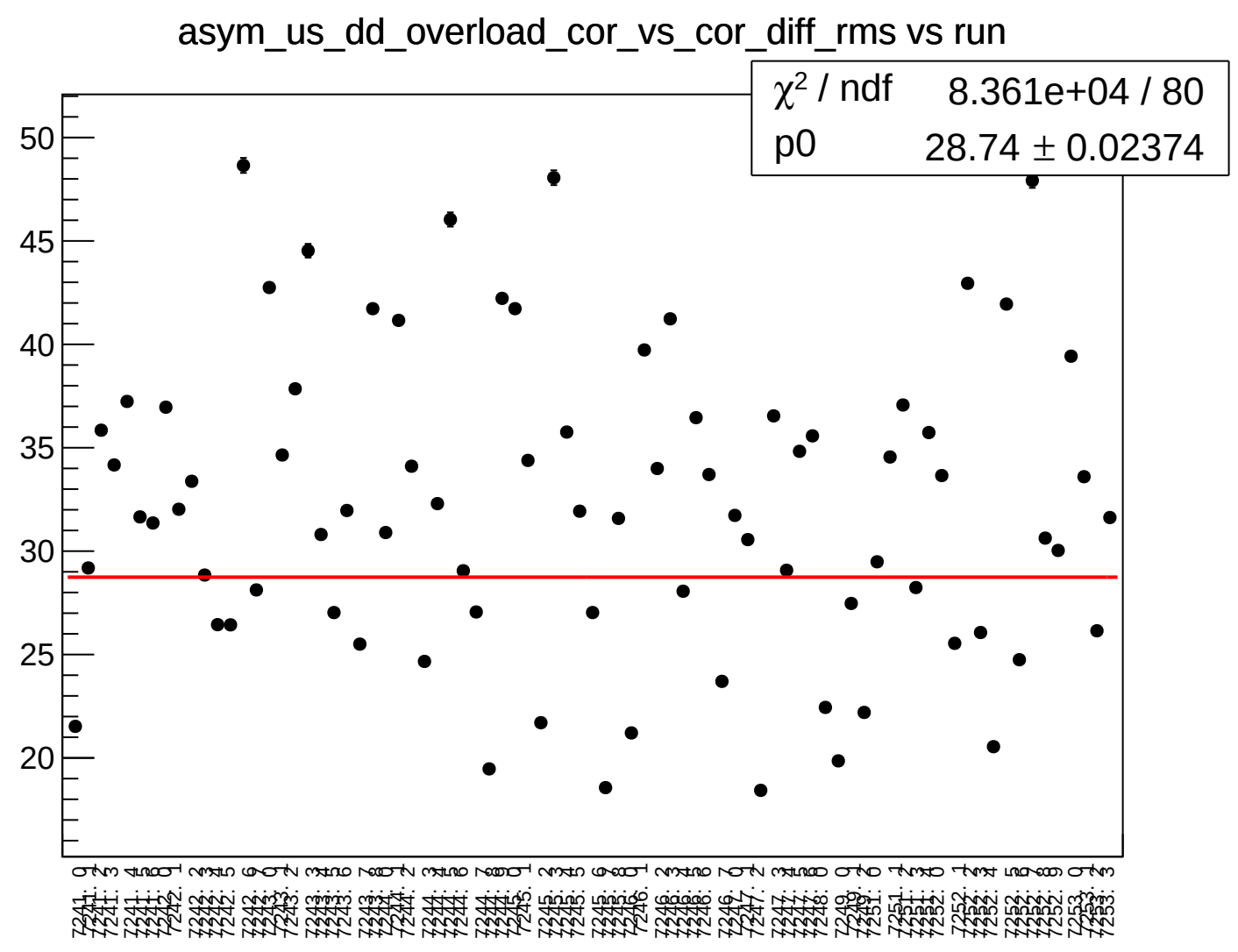

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.78 / 80
p0 3.404e−15 ± 1.083e−14
1.5
1
0.5
0
−0.5
−1
pull
Entries 81
Mean 25.06
Std Dev 24.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

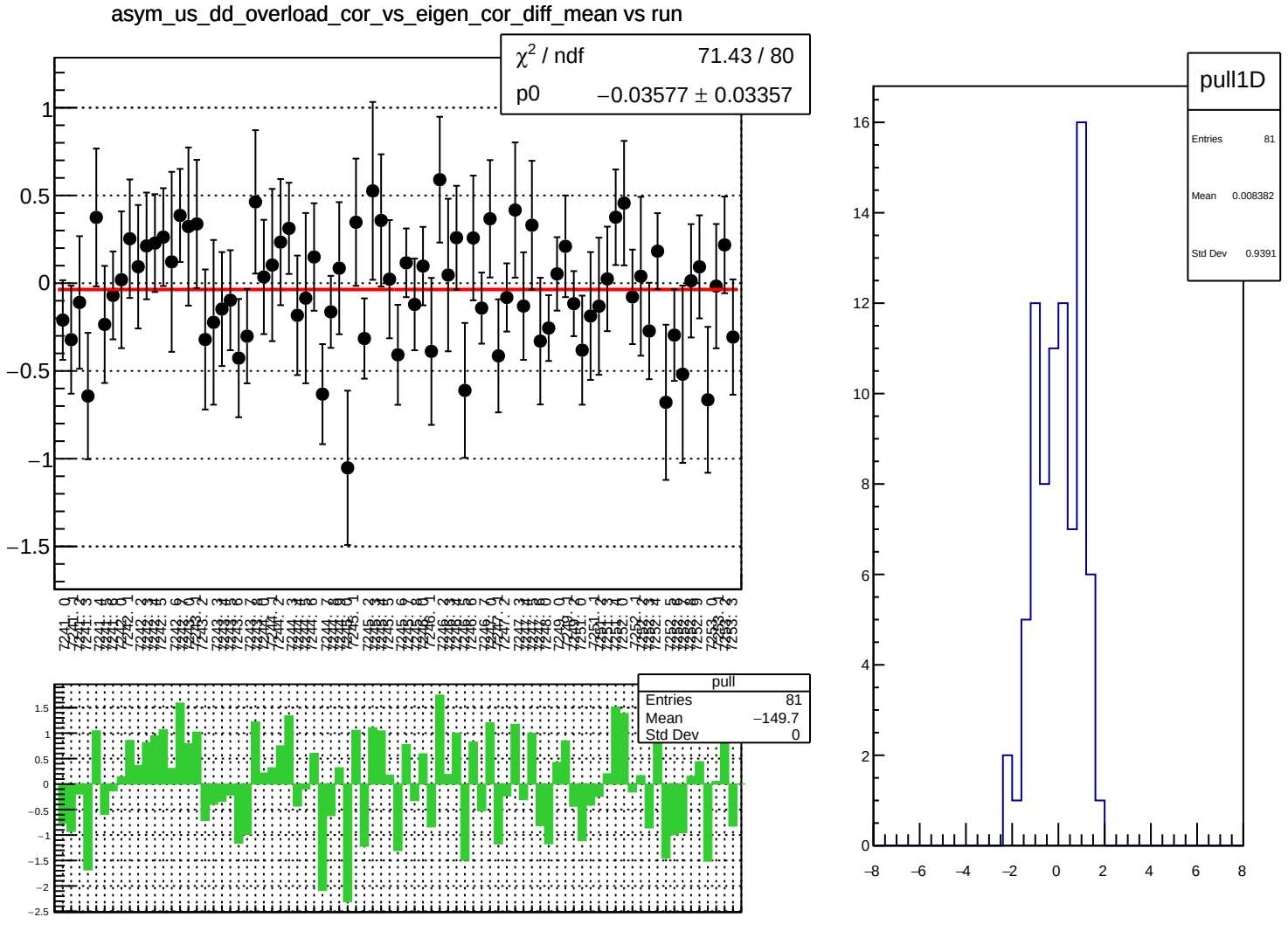

pull1D
Entries 81
Mean 0.08587
Std Dev 0.9949
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

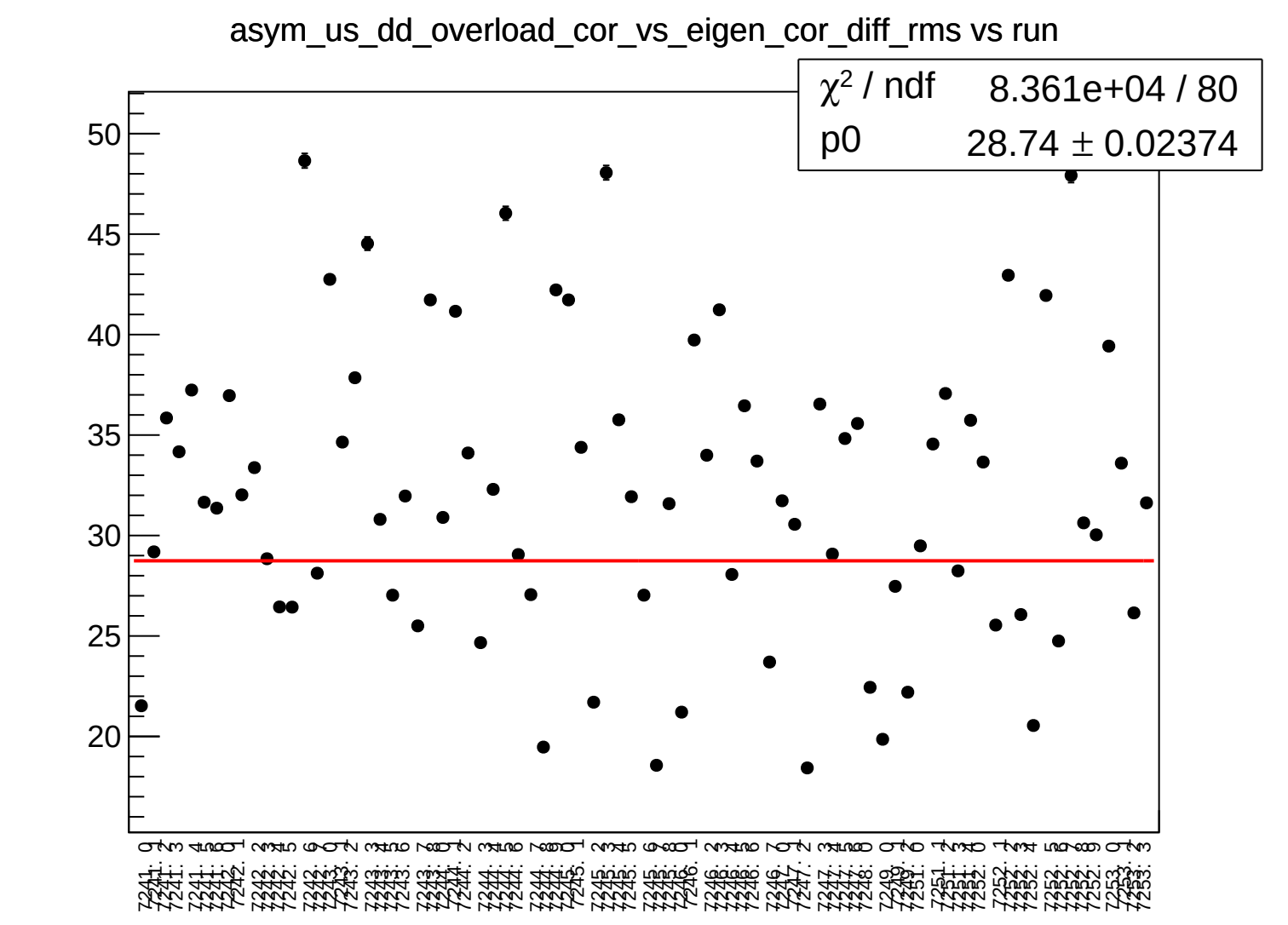

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.864e+05 / 80
p0 7.894e−12 ± 7.657e−15
80
70
60
50
40
30
20
10

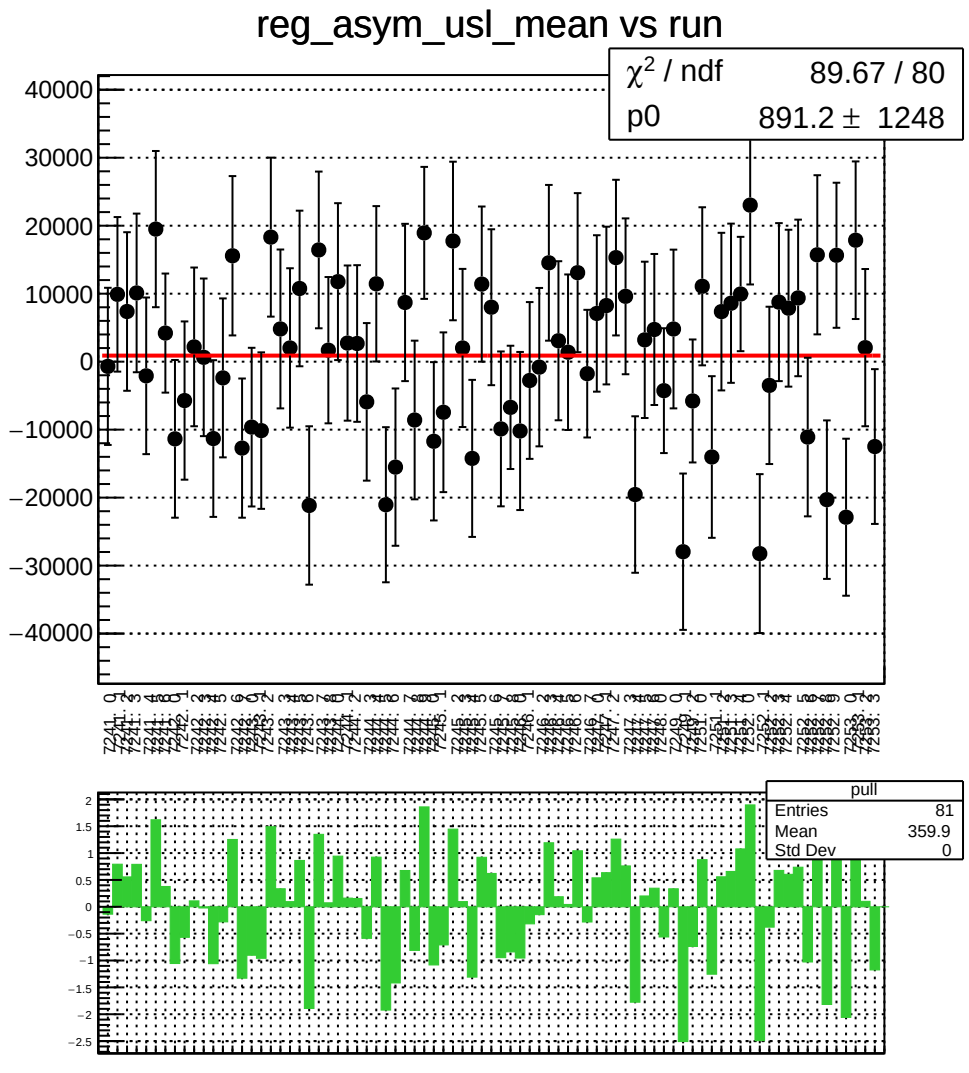

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 71.43 / 80
p0 −0.03577 ± 0.03357
pull
Entries 81
Mean −149.7
Std Dev 0

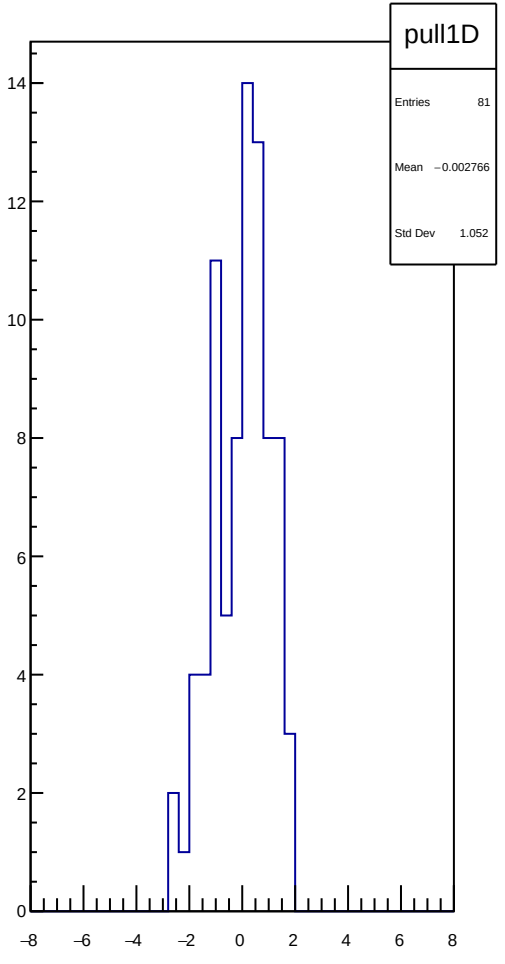

pull1D
Entries 81
Mean 0.008382
Std Dev 0.9391

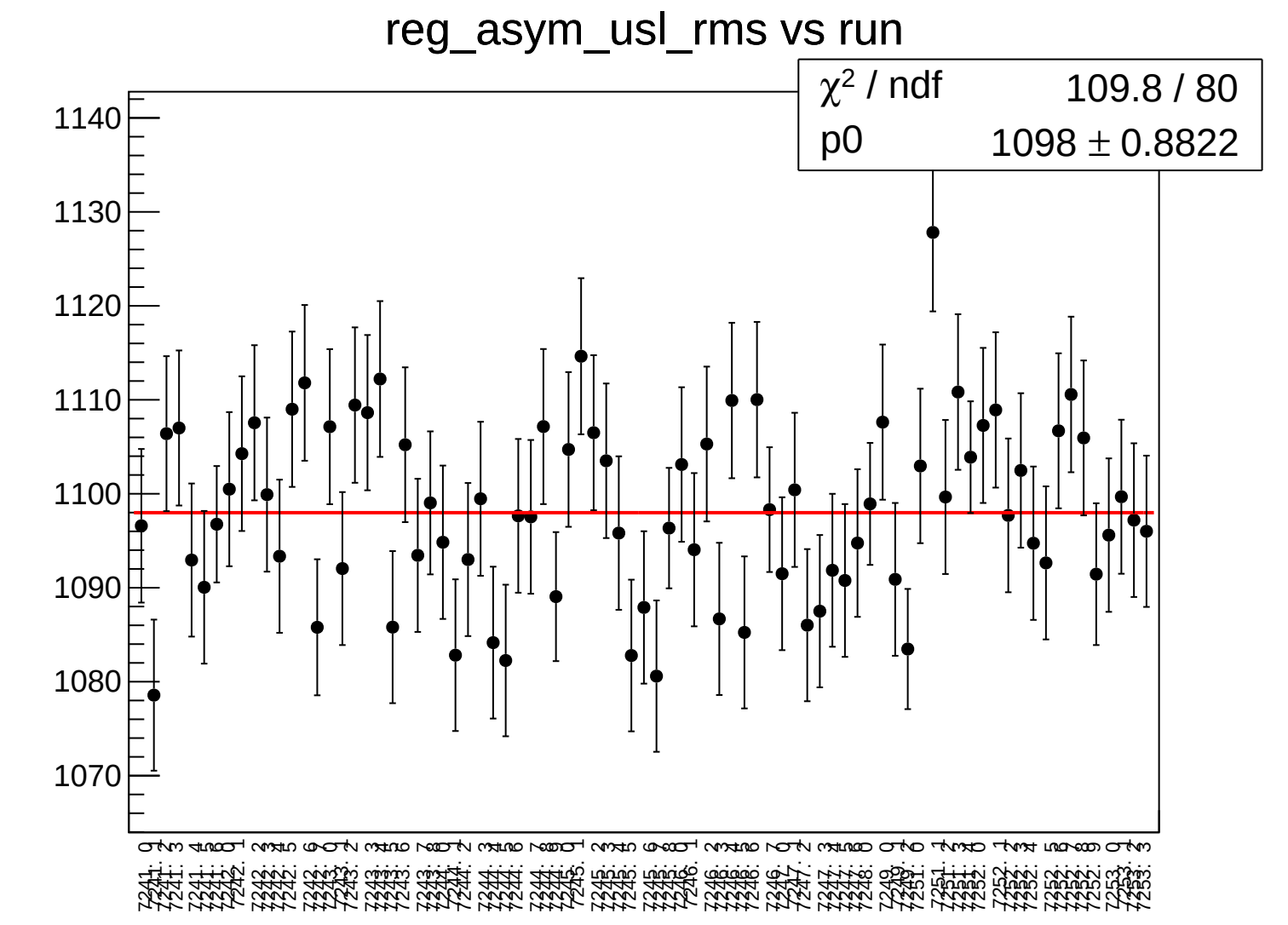

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 8.361e+04 / 80
p0 28.74 ± 0.02374
50
45
40
35
30
25
20

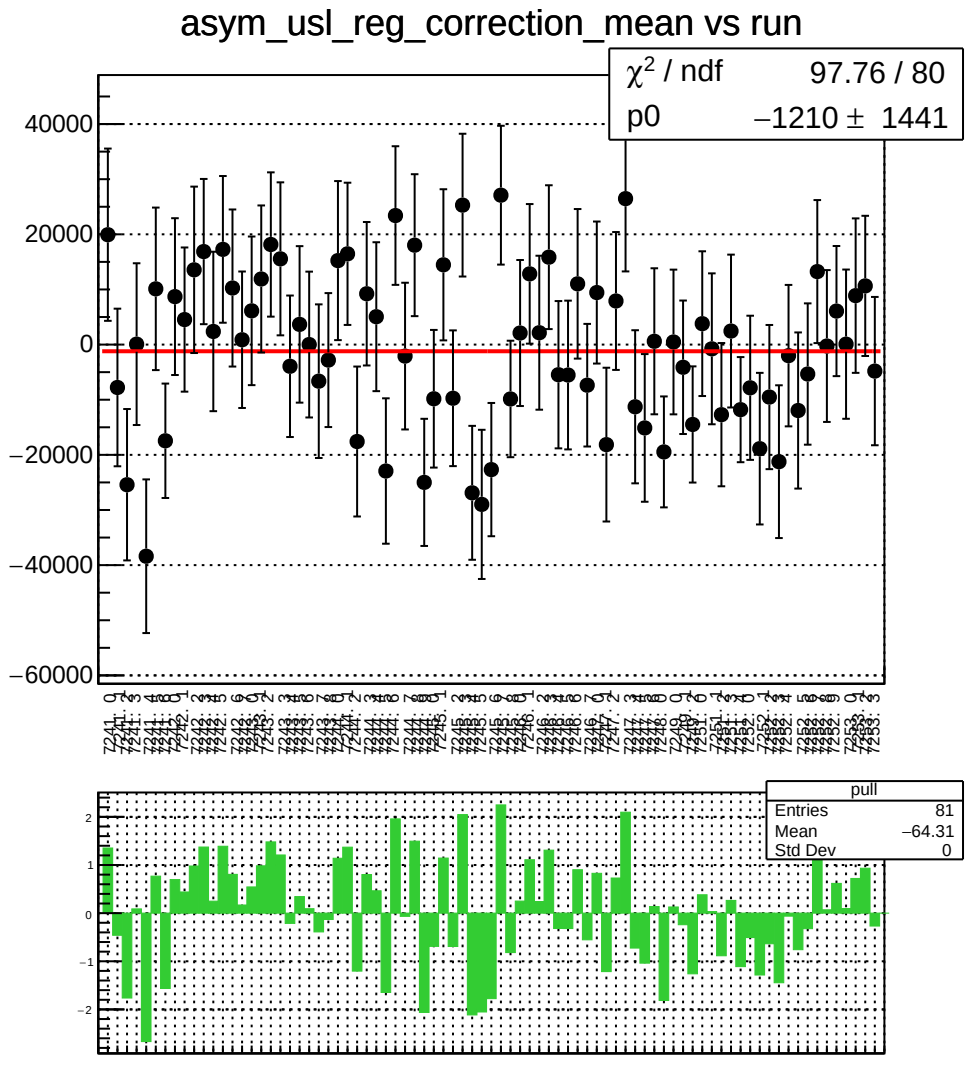

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.43 / 80
p0 −0.03577 ± 0.03357
pull
Entries 81
Mean −149.7
Std Dev 0
pull1D
Entries 81
Mean 0.008382
Std Dev 0.9391

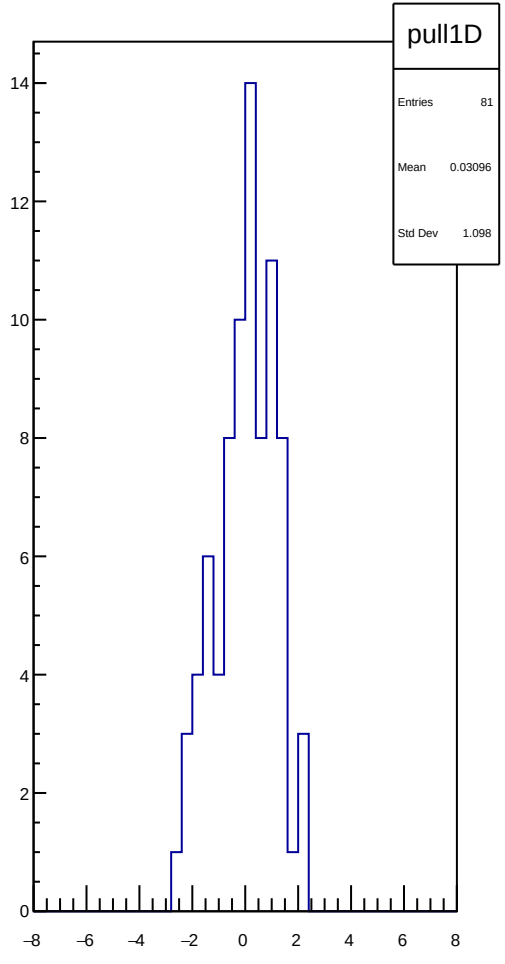

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.361e+04 / 80
p0 28.74 ± 0.02374
50
45
40
35
30
25
20

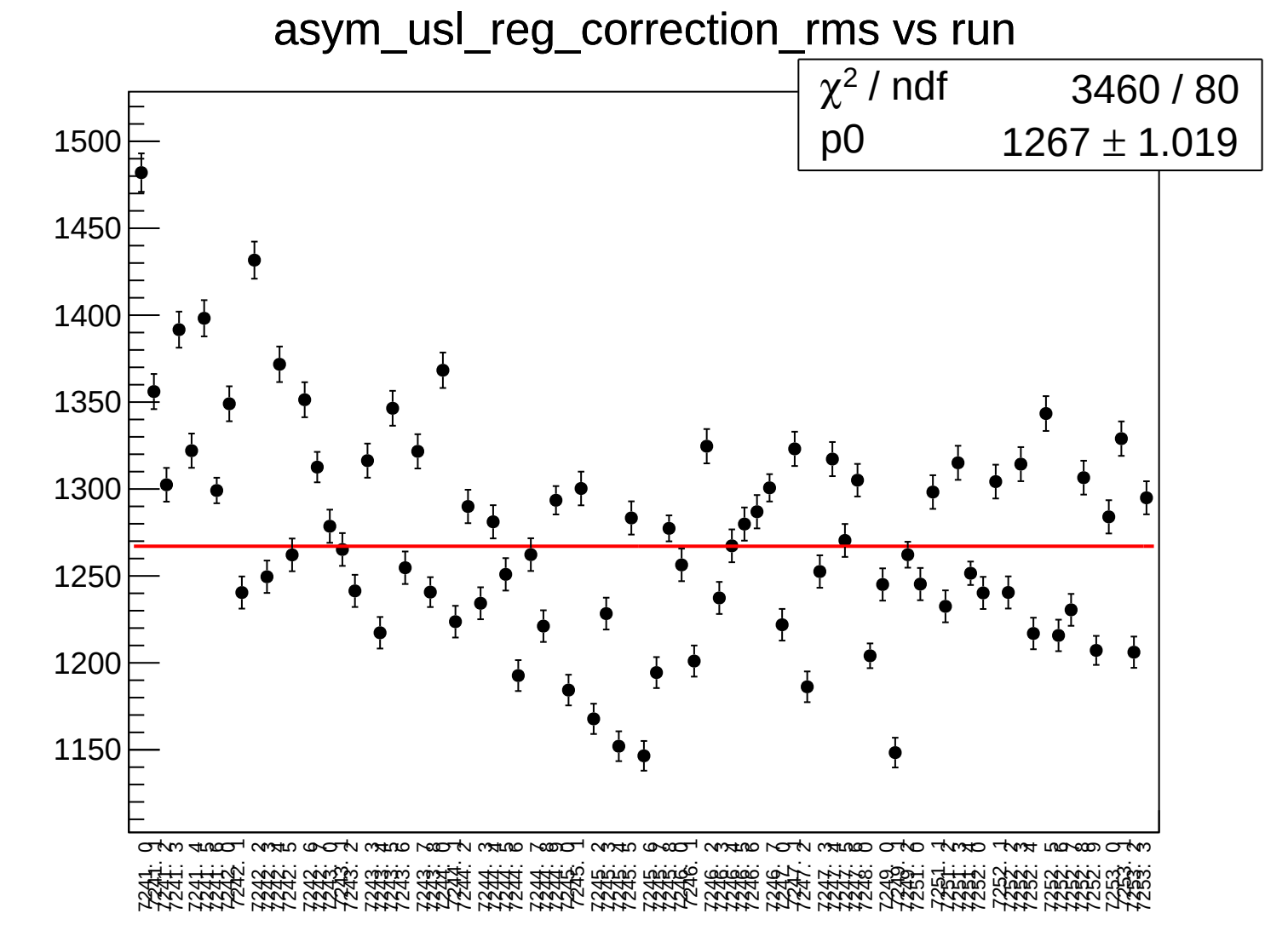

reg_asym_usl_mean vs run
χ² / ndf 89.67 / 80
p0 891.2 ± 1248
pull
Entries 81
Mean 359.9
Std Dev 0

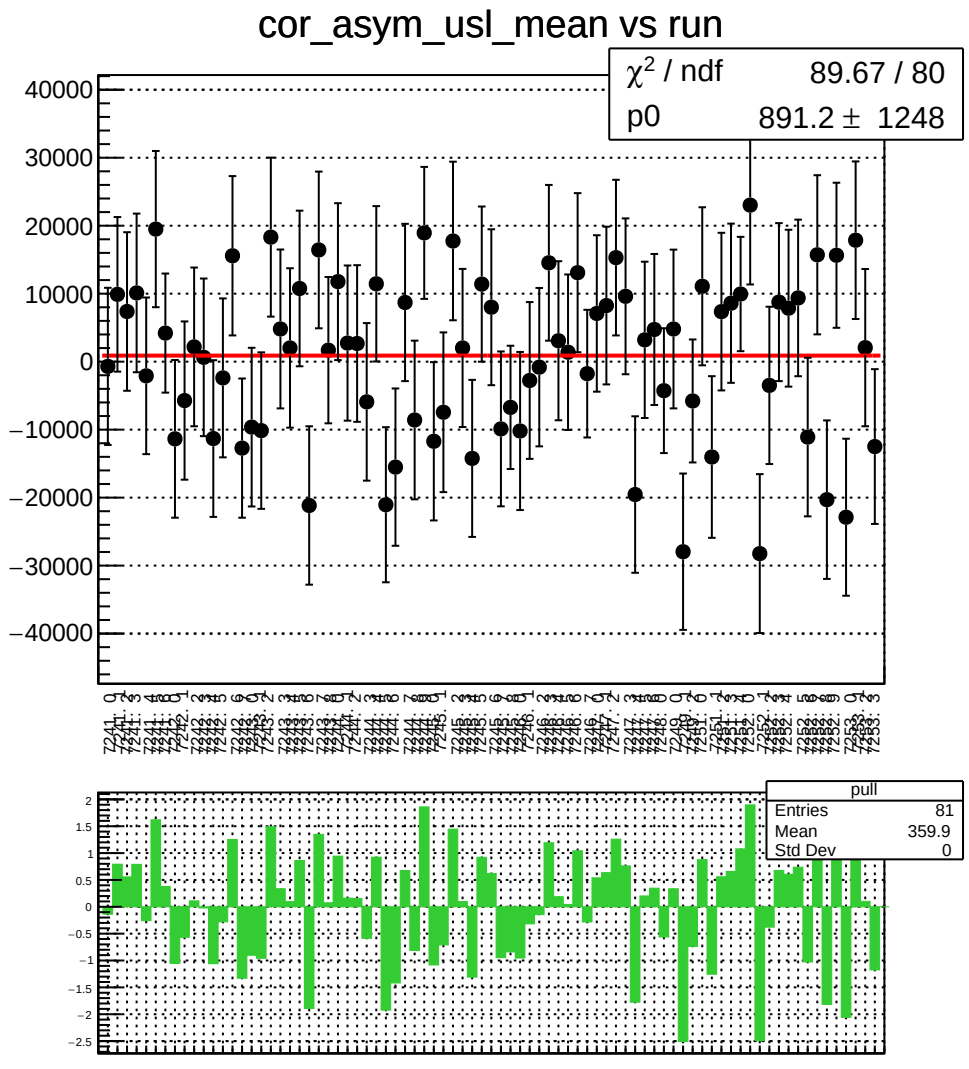

pull1D
Entries 81
Mean −0.002766
Std Dev 1.052

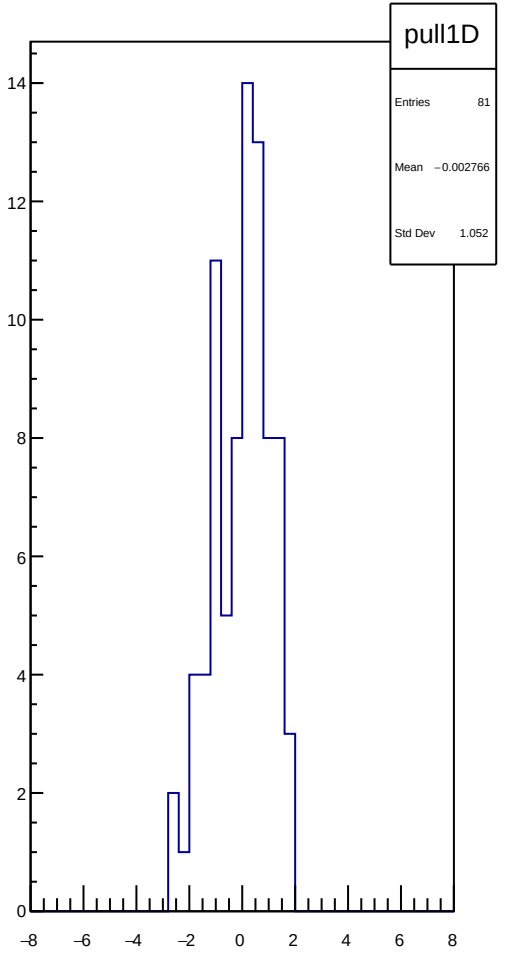

reg_asym_usl_rms vs run
χ² / ndf 109.8 / 80
p0 1098 ± 0.8822
1140
1130
1120
1110
1100
1090
1080
1070

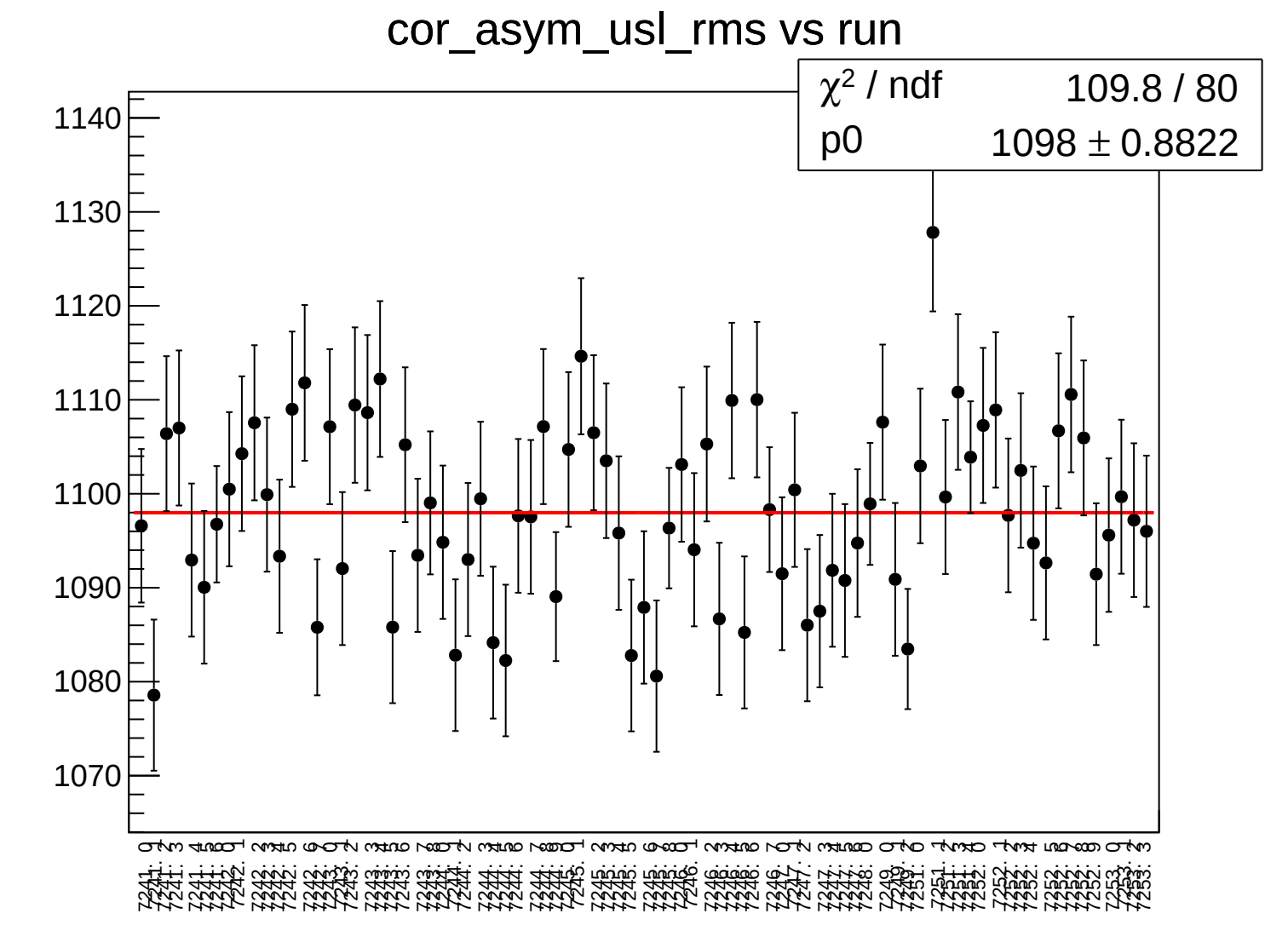

asym_usl_reg_correction_mean vs run
χ² / ndf 97.76 / 80
p0 −1210 ± 1441
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −64.31
Std Dev 0
2
1
0
−1
−2

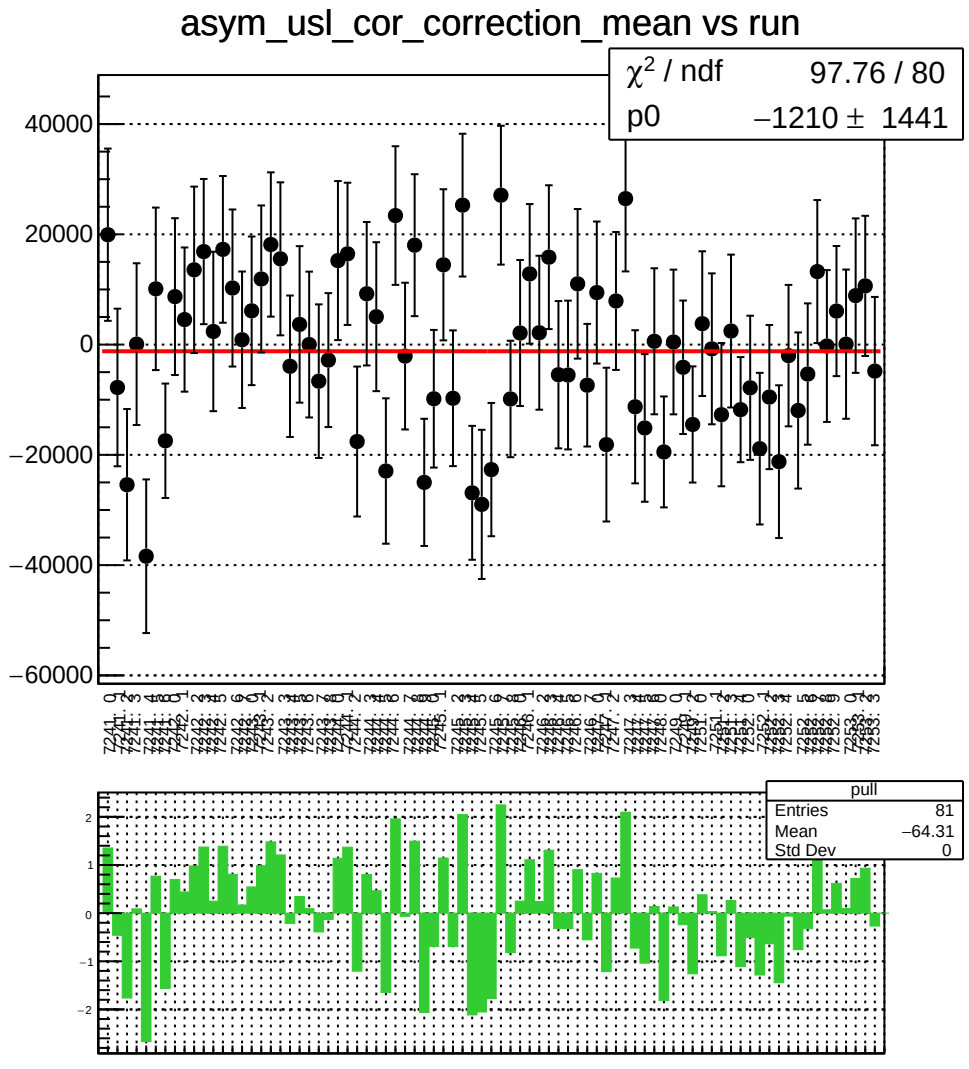

pull1D
Entries 81
Mean 0.03096
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

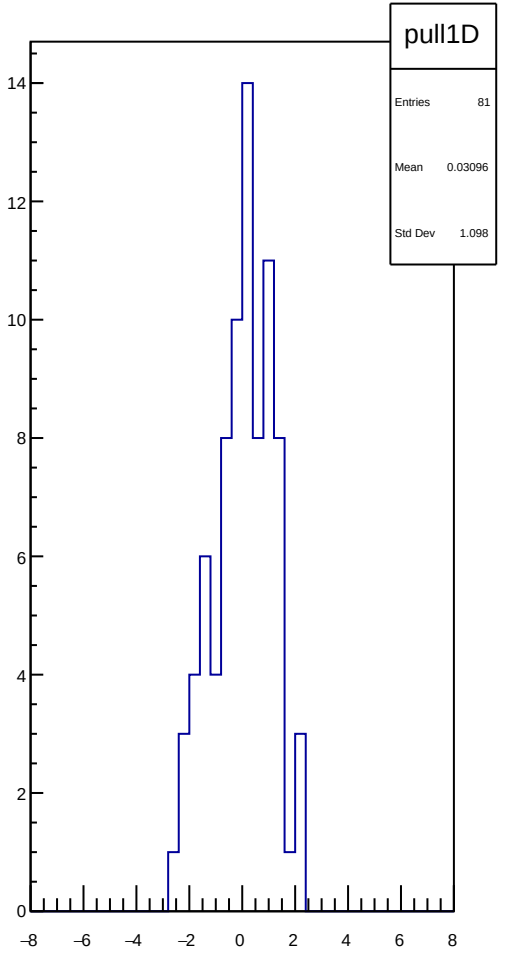

asym_usl_reg_correction_rms vs run
χ² / ndf 3460 / 80
p0 1267 ± 1.019
1500
1450
1400
1350
1300
1250
1200
1150

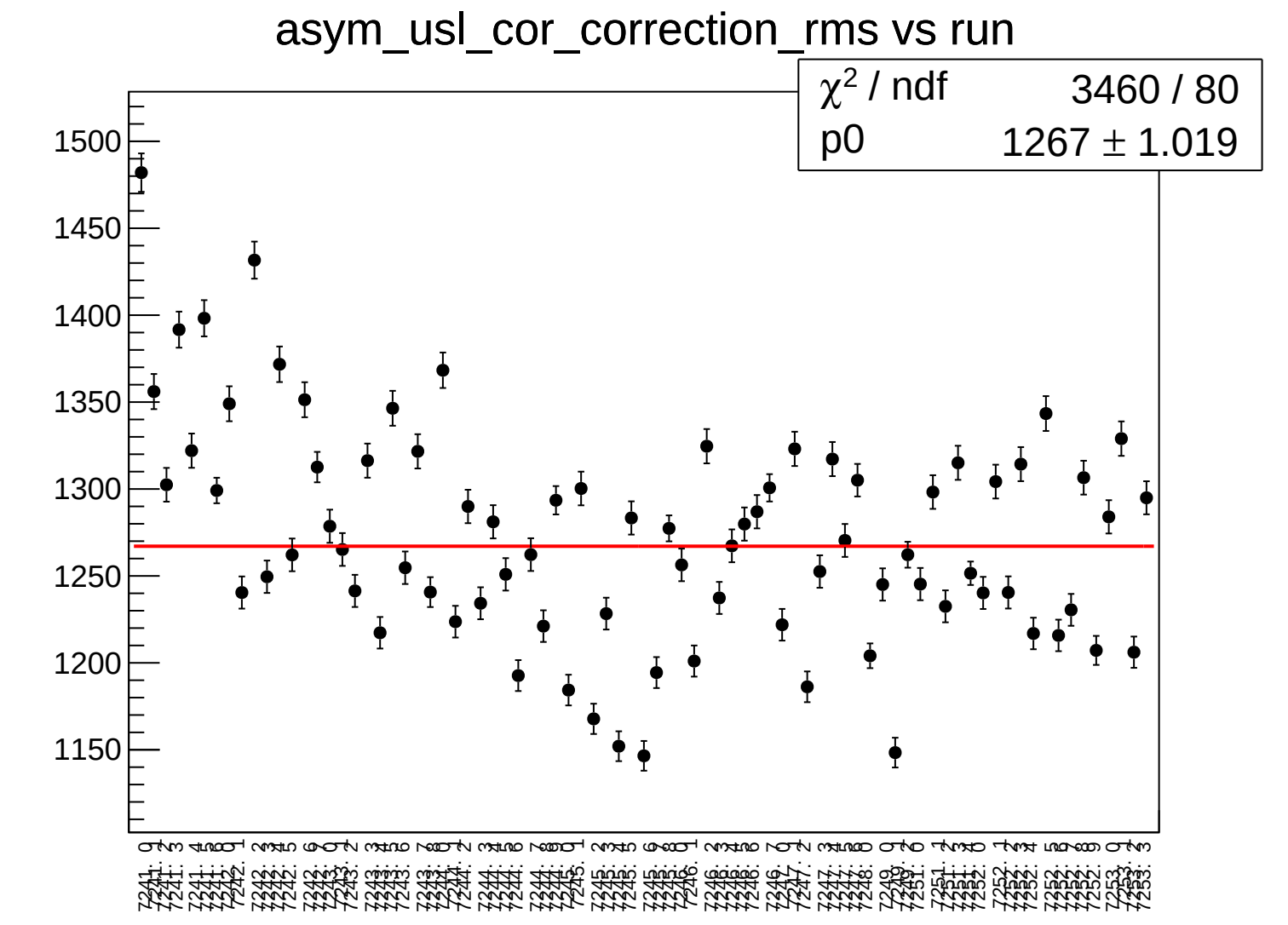

cor_asym_usl_mean vs run
χ² / ndf 89.67 / 80
p0 891.2 ± 1248
pull
Entries 81
Mean 359.9
Std Dev 0

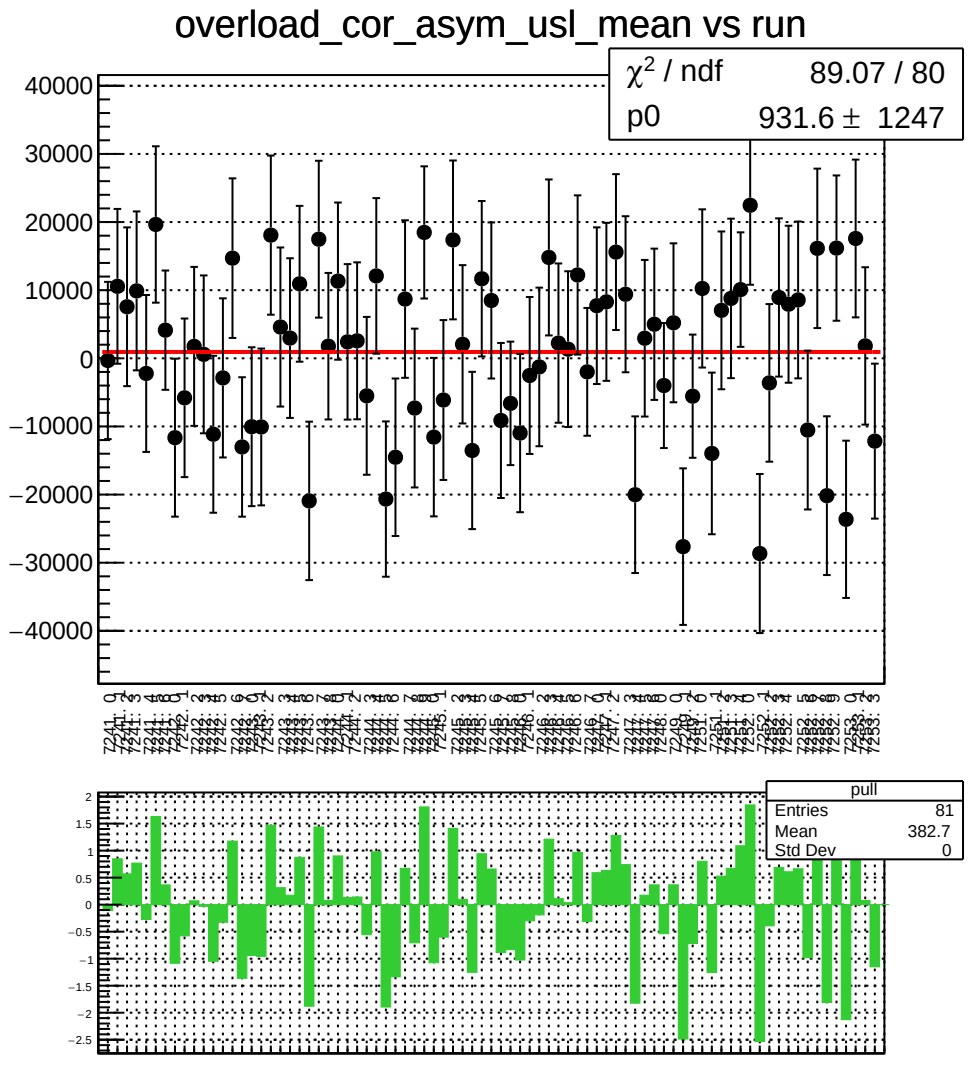

pull1D
Entries 81
Mean −0.002766
Std Dev 1.052

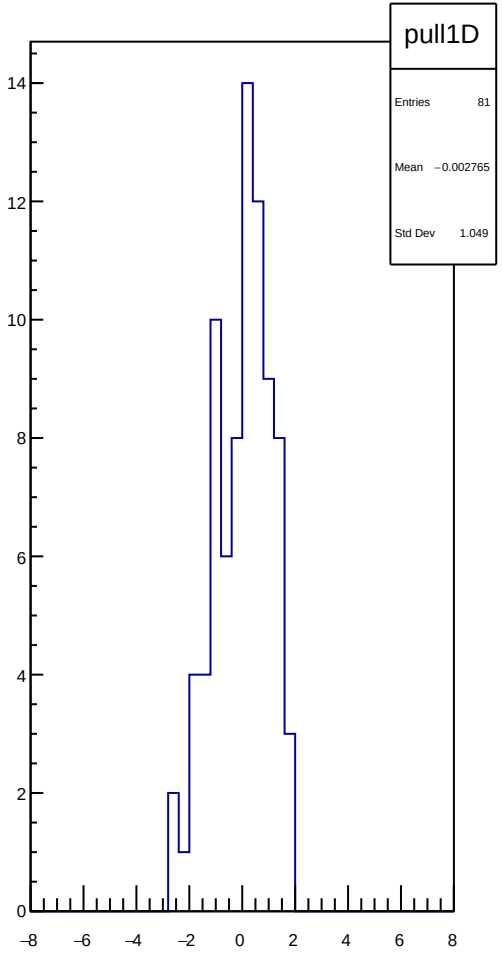

cor_asym_usl_rms vs run
χ² / ndf 109.8 / 80
p0 1098 ± 0.8822
1140
1130
1120
1110
1100
1090
1080
1070

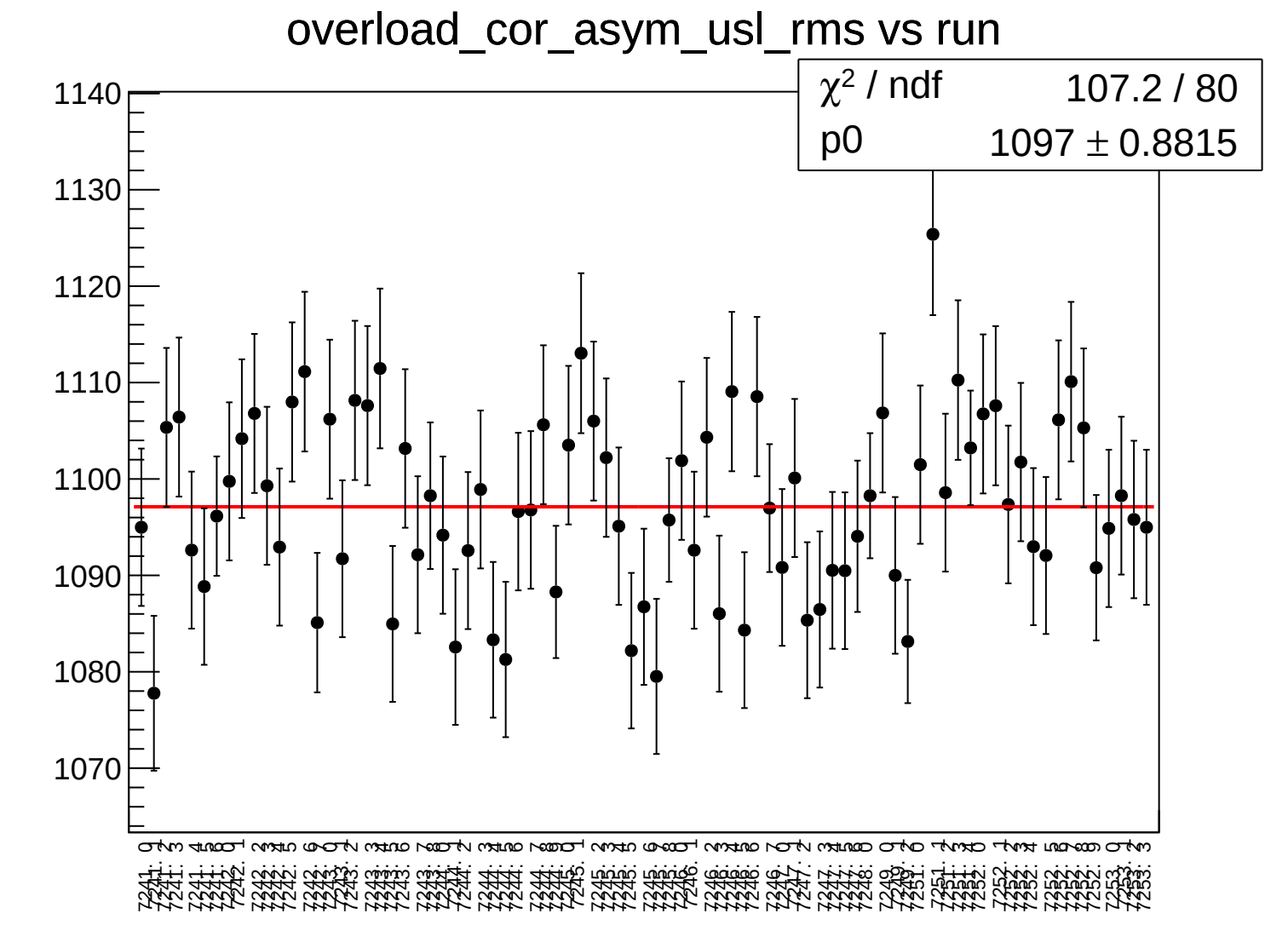

asym_usl_cor_correction_mean vs run
χ² / ndf 97.76 / 80
p0 −1210 ± 1441
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −64.31
Std Dev 0
2
1
0
−1
−2

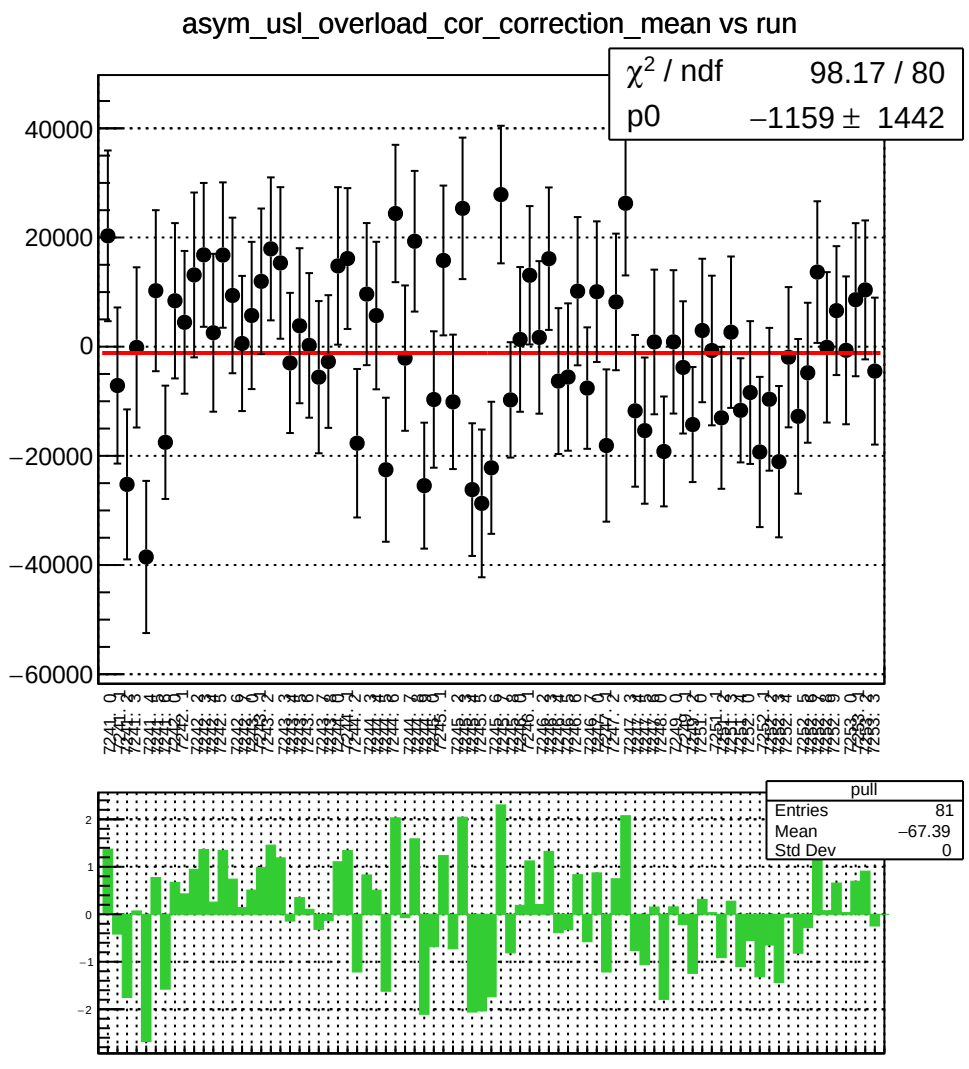

pull1D
Entries 81
Mean 0.03096
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

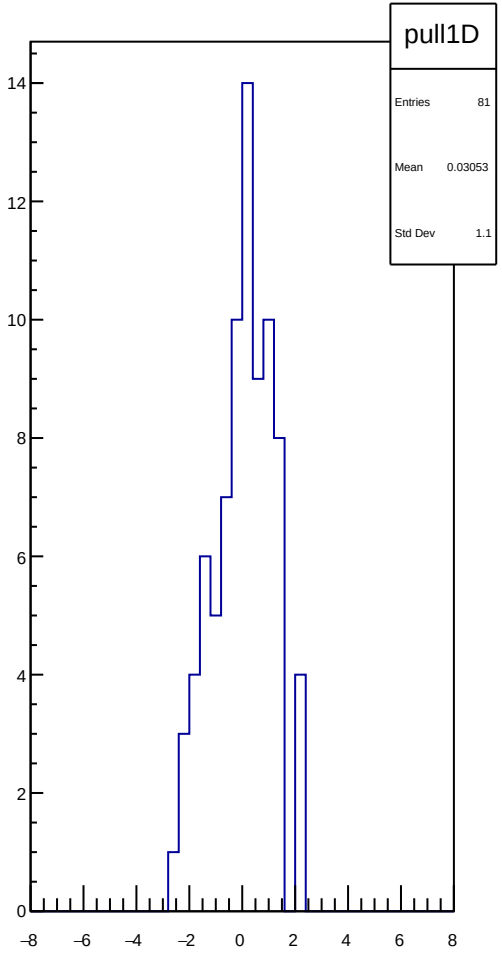

asym_usl_cor_correction_rms vs run
χ² / ndf 3460 / 80
p0 1267 ± 1.019
1500
1450
1400
1350
1300
1250
1200
1150

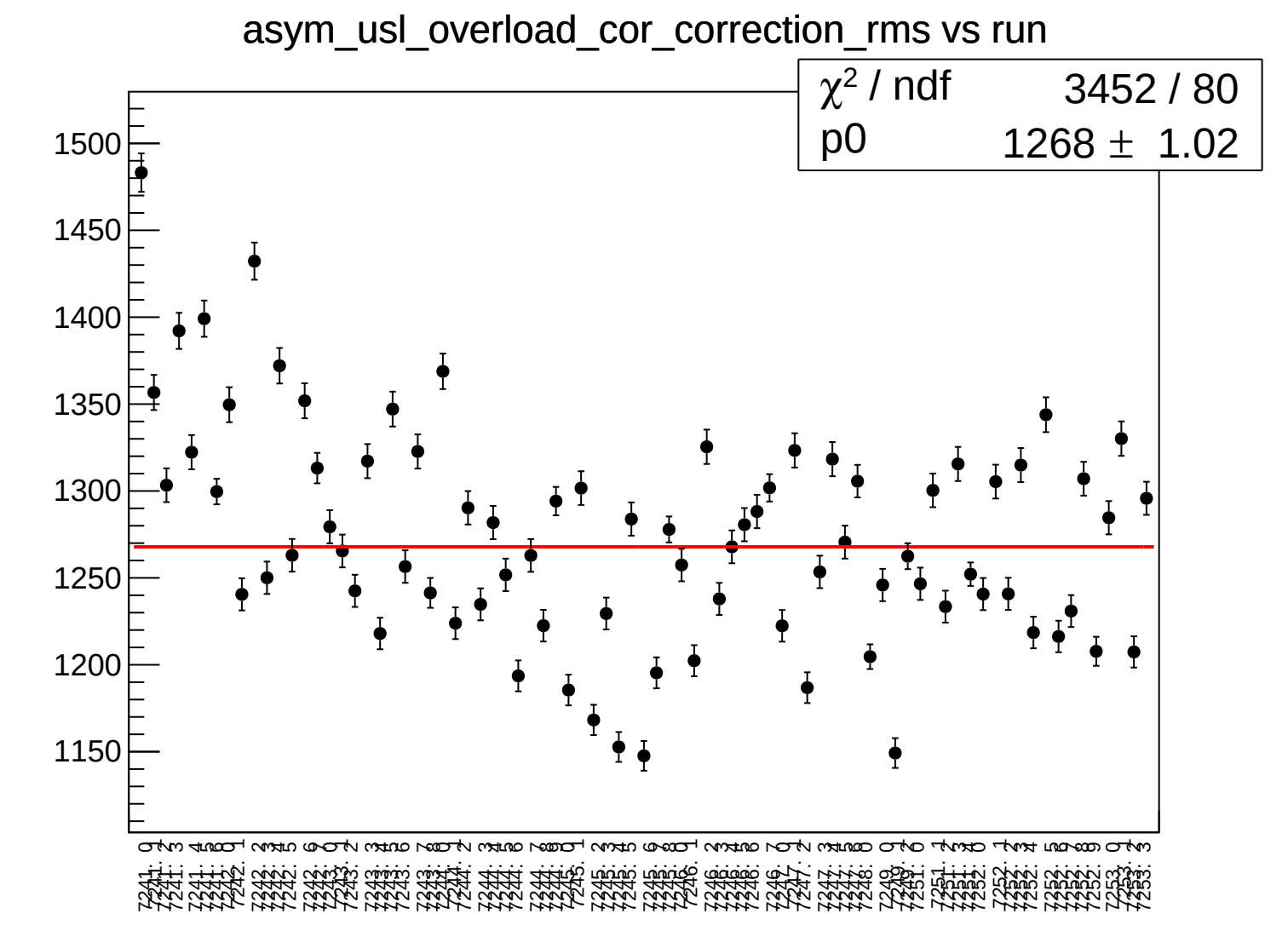

overload_cor_asym_usl_mean vs run
χ² / ndf 89.07 / 80
p0 931.6 ± 1247
pull
Entries 81
Mean 382.7
Std Dev 0

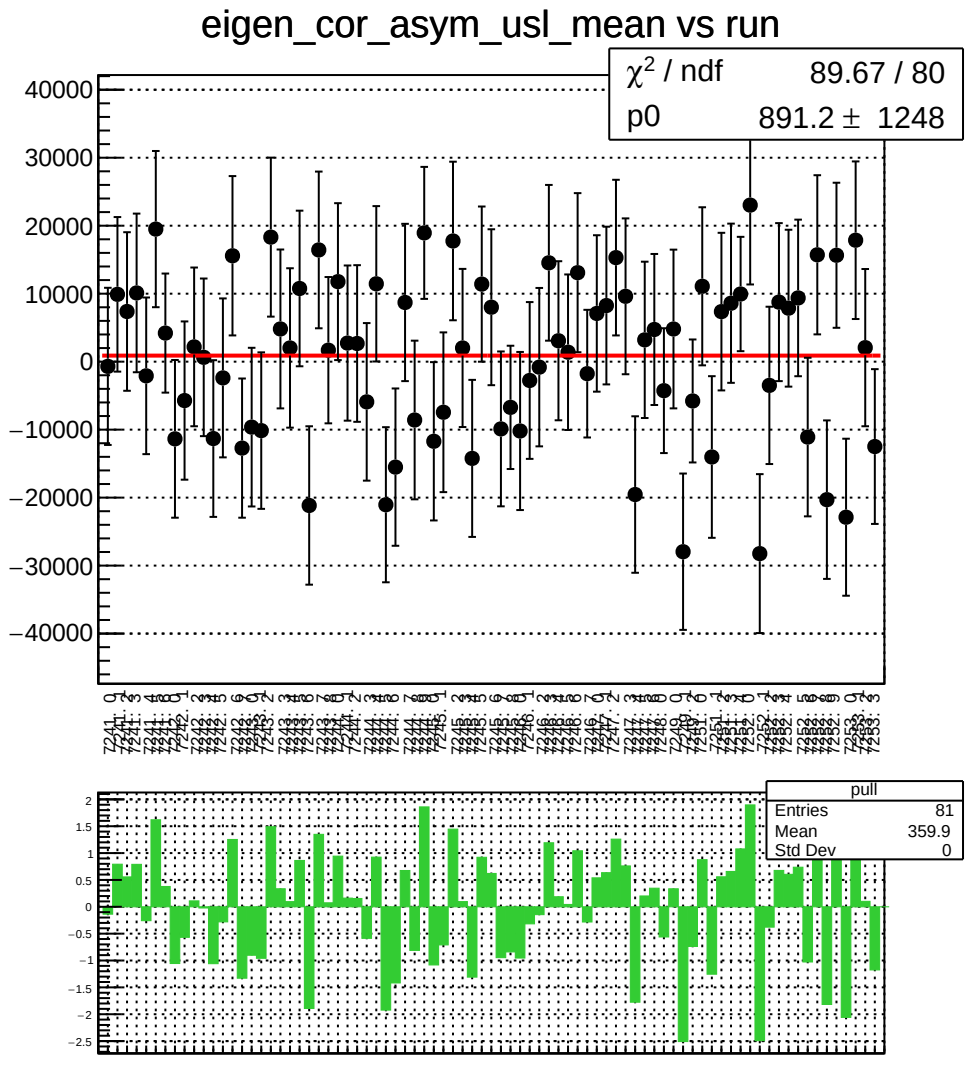

pull1D
Entries 81
Mean −0.002765
Std Dev 1.049

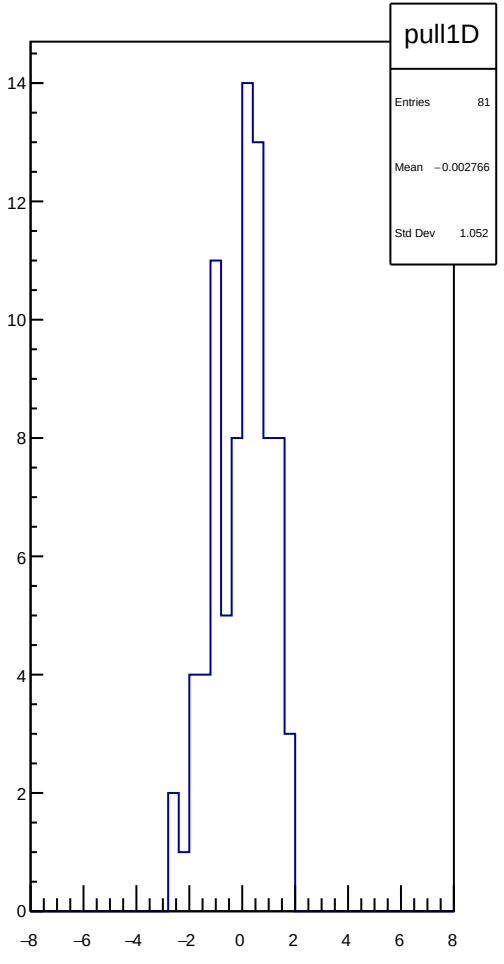

overload_cor_asym_usl_rms vs run
χ² / ndf 107.2 / 80
p0 1097 ± 0.8815
1140
1130
1120
1110
1100
1090
1080
1070

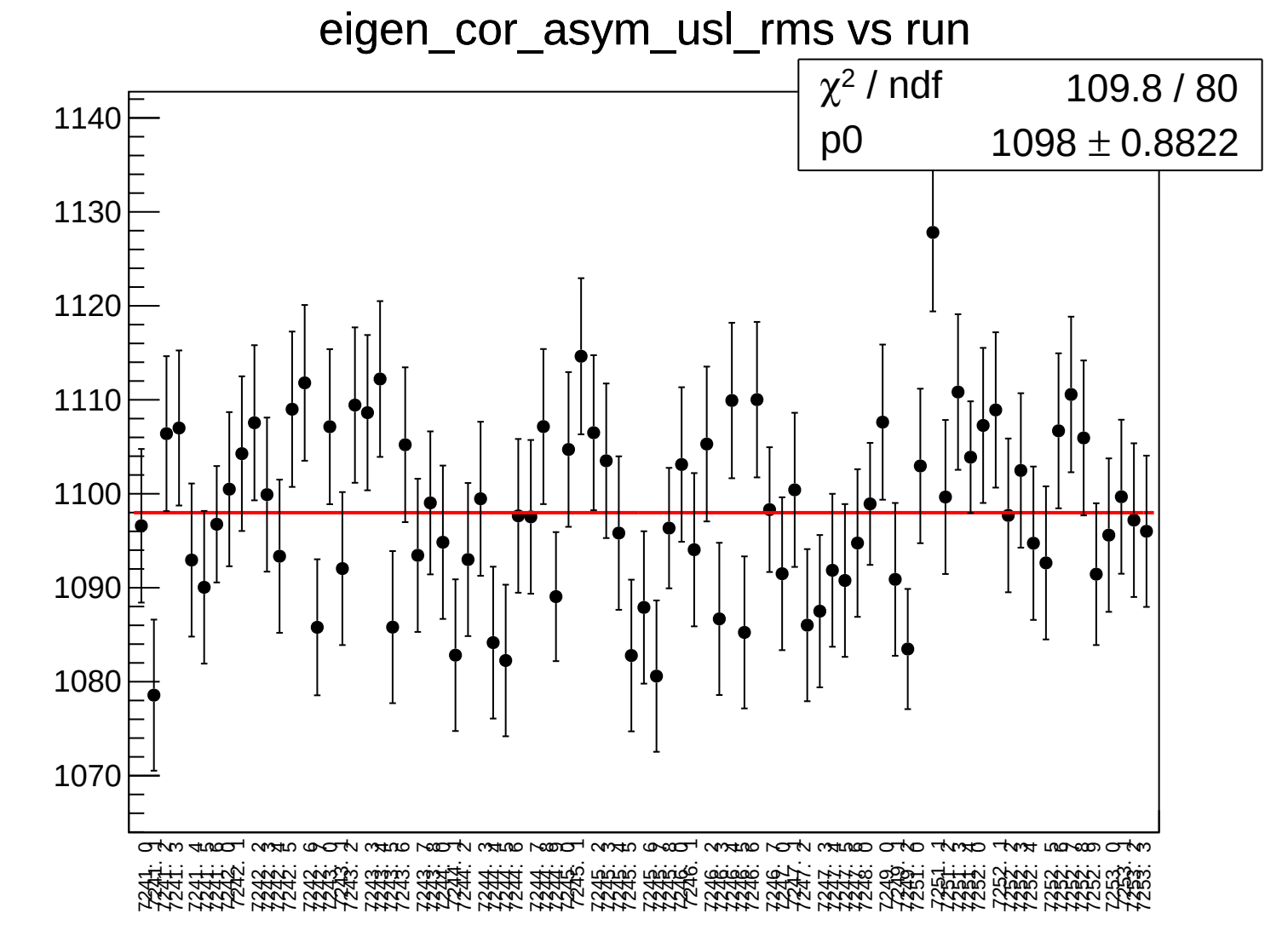

asym_usl_overload_cor_correction_mean vs run
χ² / ndf 98.17 / 80
p0 −1159 ± 1442
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −67.39
Std Dev 0
2
1
0
−1
−2

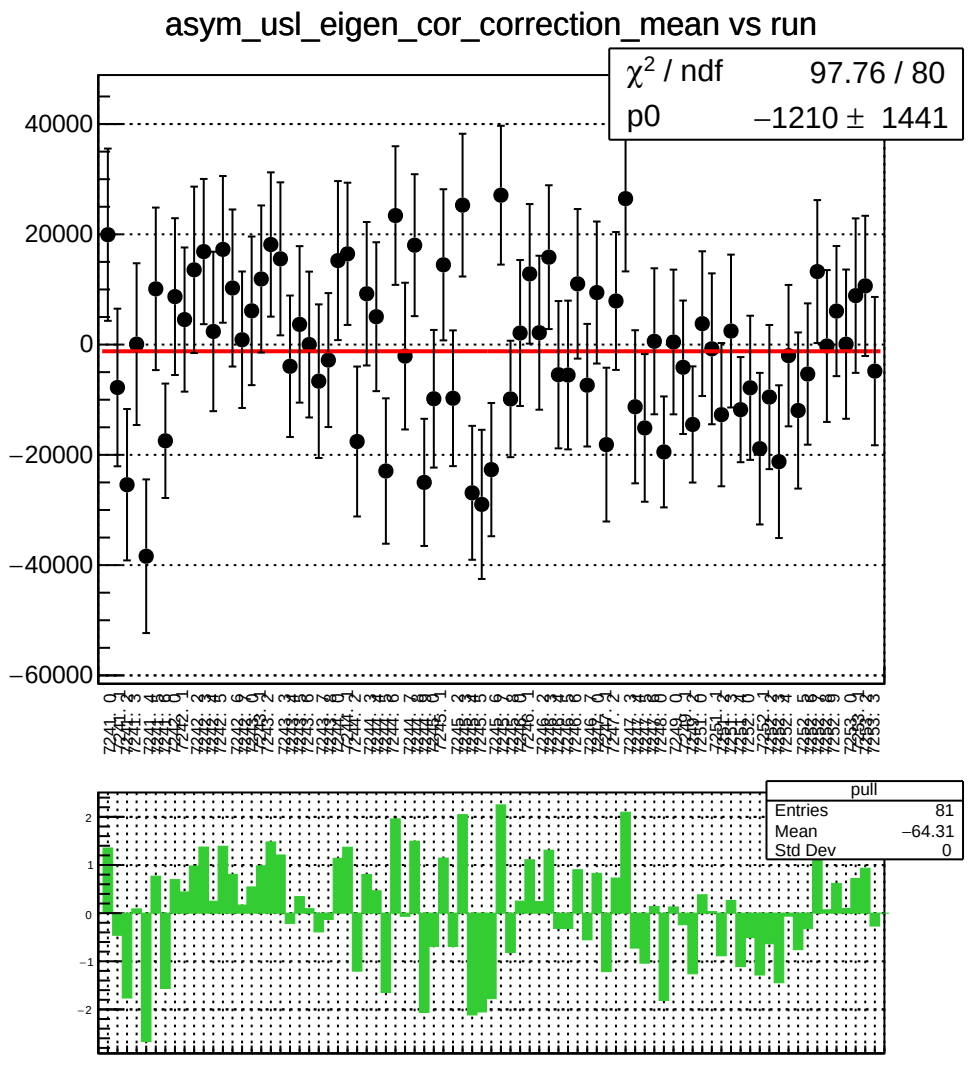

pull1D
Entries 81
Mean 0.03053
Std Dev 1.1
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

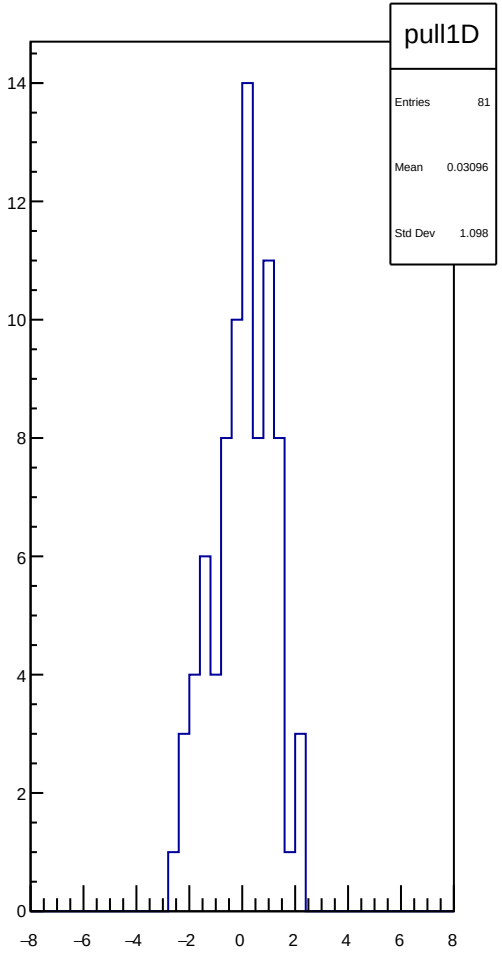

asym_usl_overload_cor_correction_rms vs run
χ² / ndf 3452 / 80
p0 1268 ± 1.02
1500
1450
1400
1350
1300
1250
1200
1150

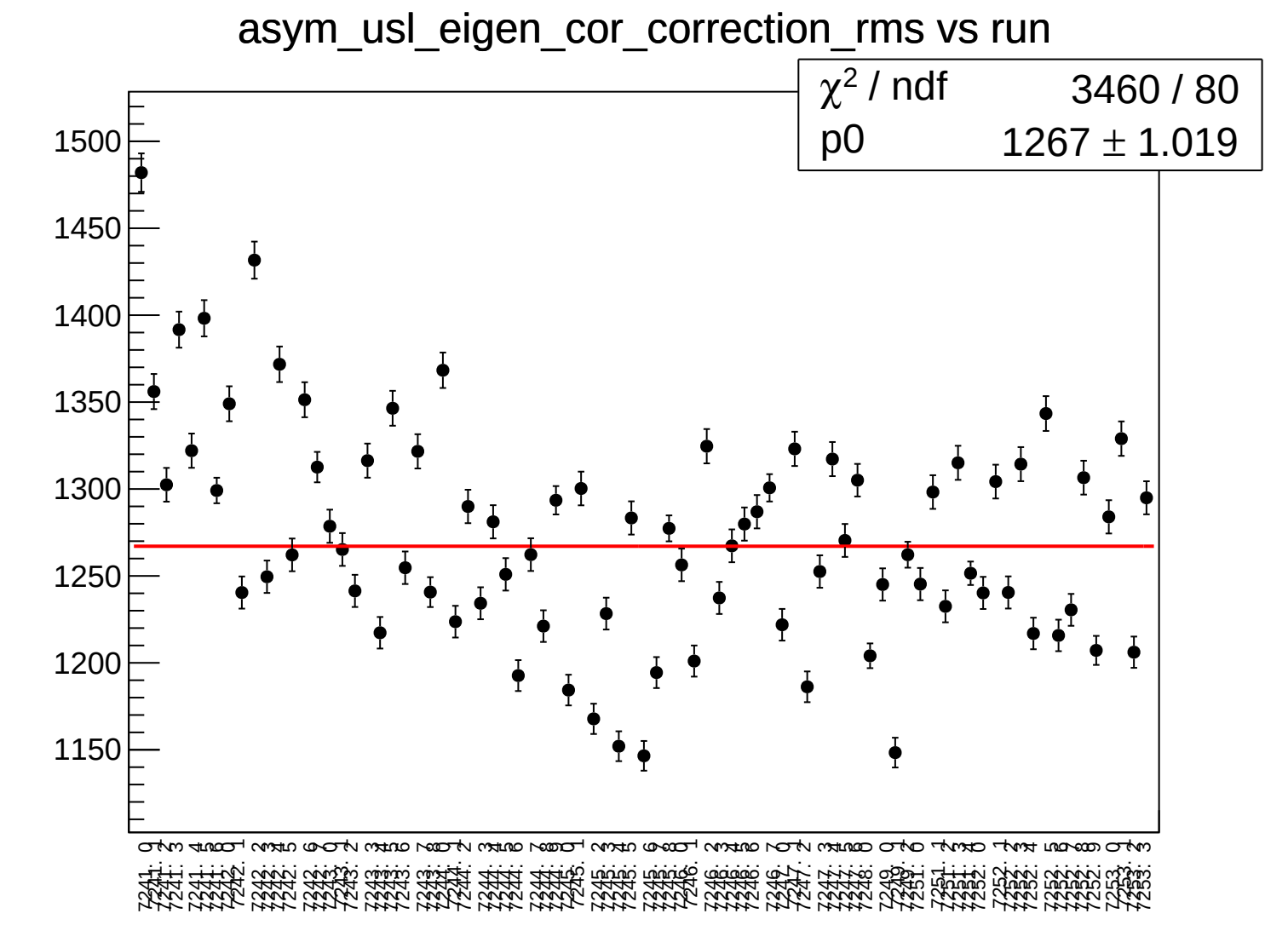

eigen_cor_asym_usl_mean vs run
χ² / ndf 89.67 / 80
p0 891.2 ± 1248
pull
Entries 81
Mean 359.9
Std Dev 0

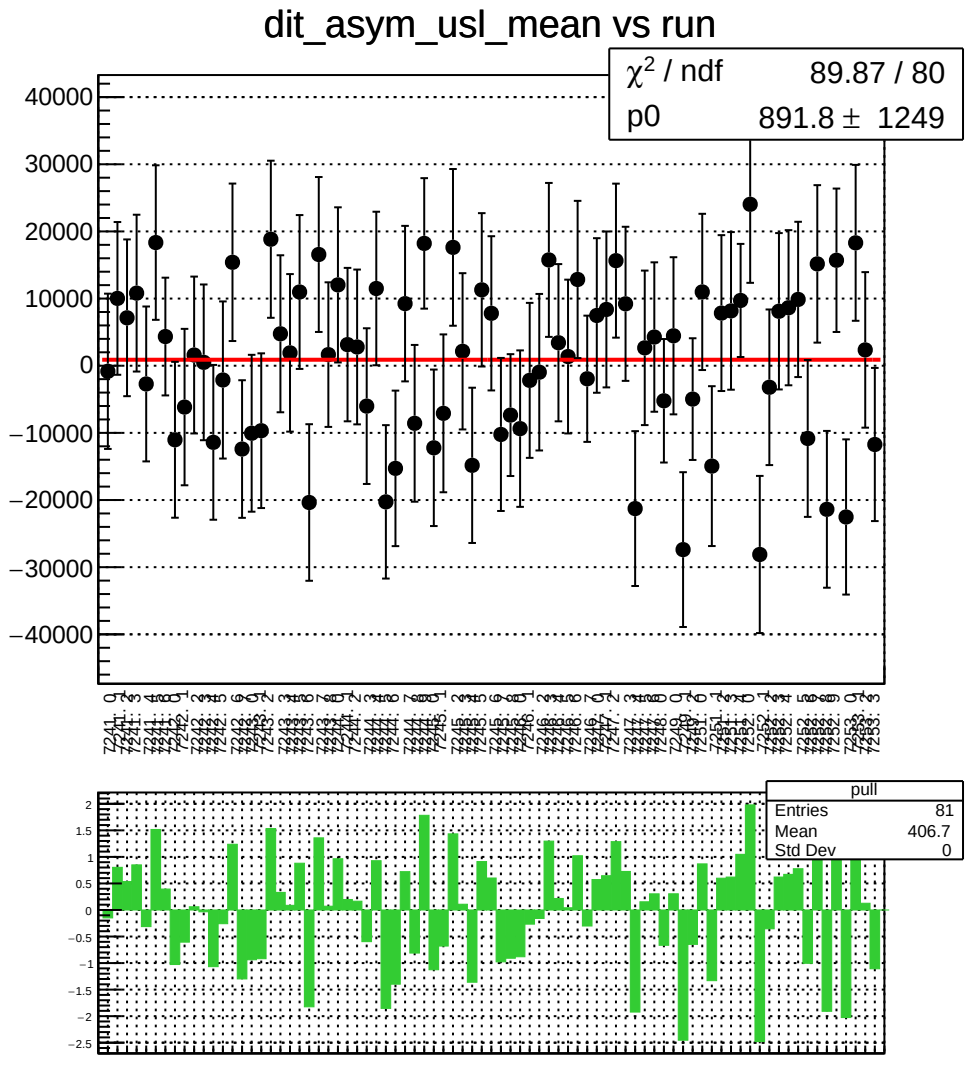

pull1D
Entries 81
Mean −0.002766
Std Dev 1.052

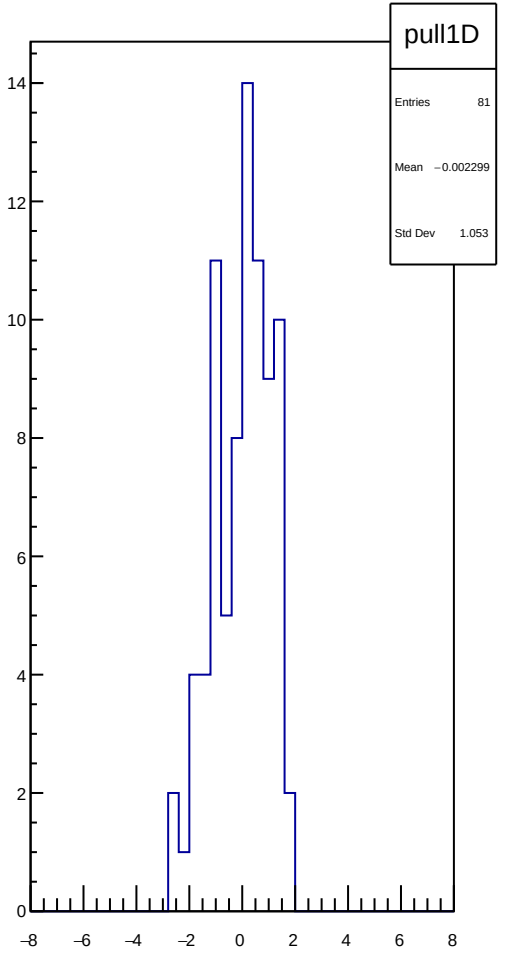

eigen_cor_asym_usl_rms vs run
χ² / ndf 109.8 / 80
p0 1098 ± 0.8822
1140
1130
1120
1110
1100
1090
1080
1070

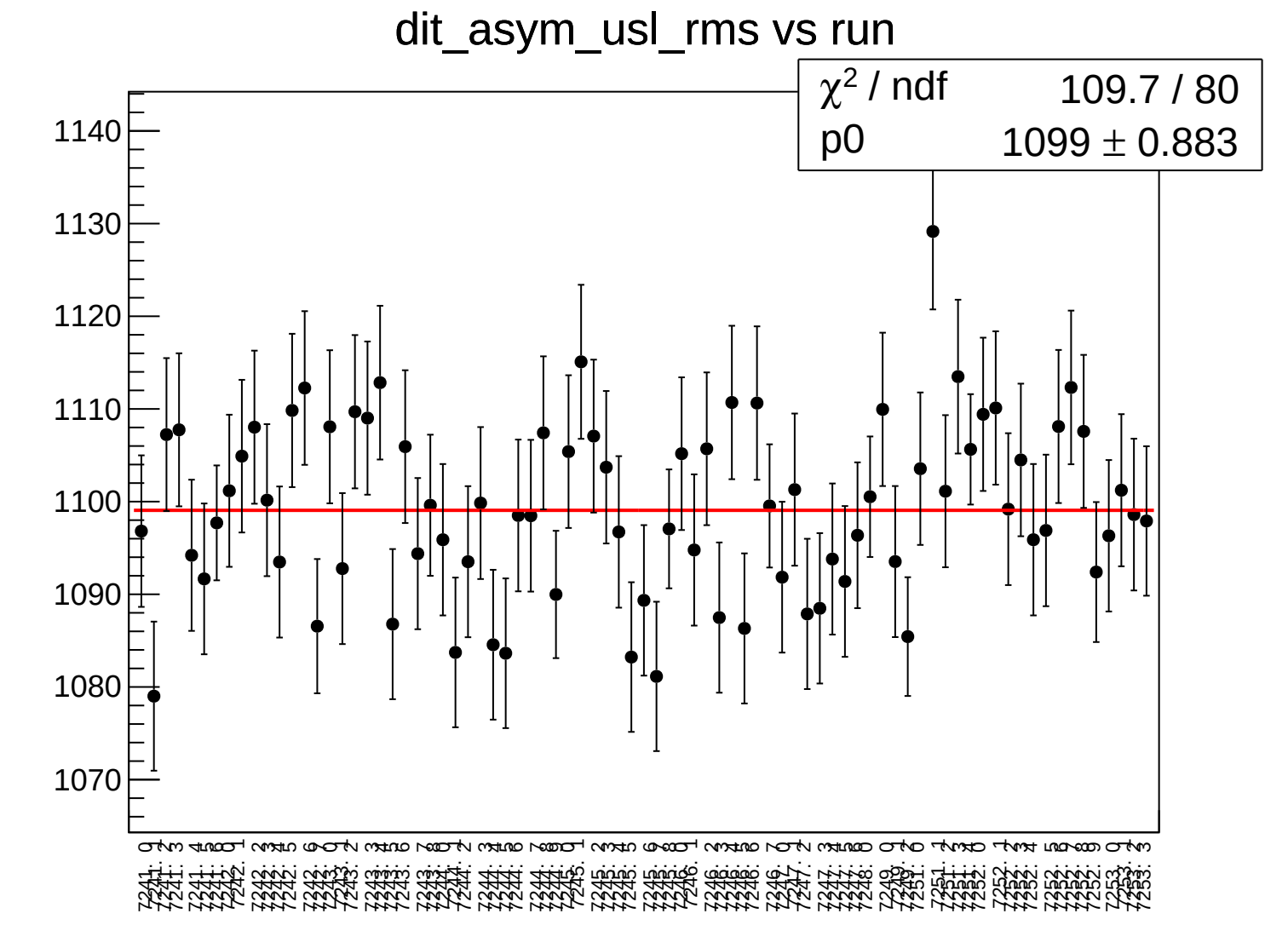

asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 97.76 / 80
p0 −1210 ± 1441
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −64.31
Std Dev 0
2
1
0
−1
−2

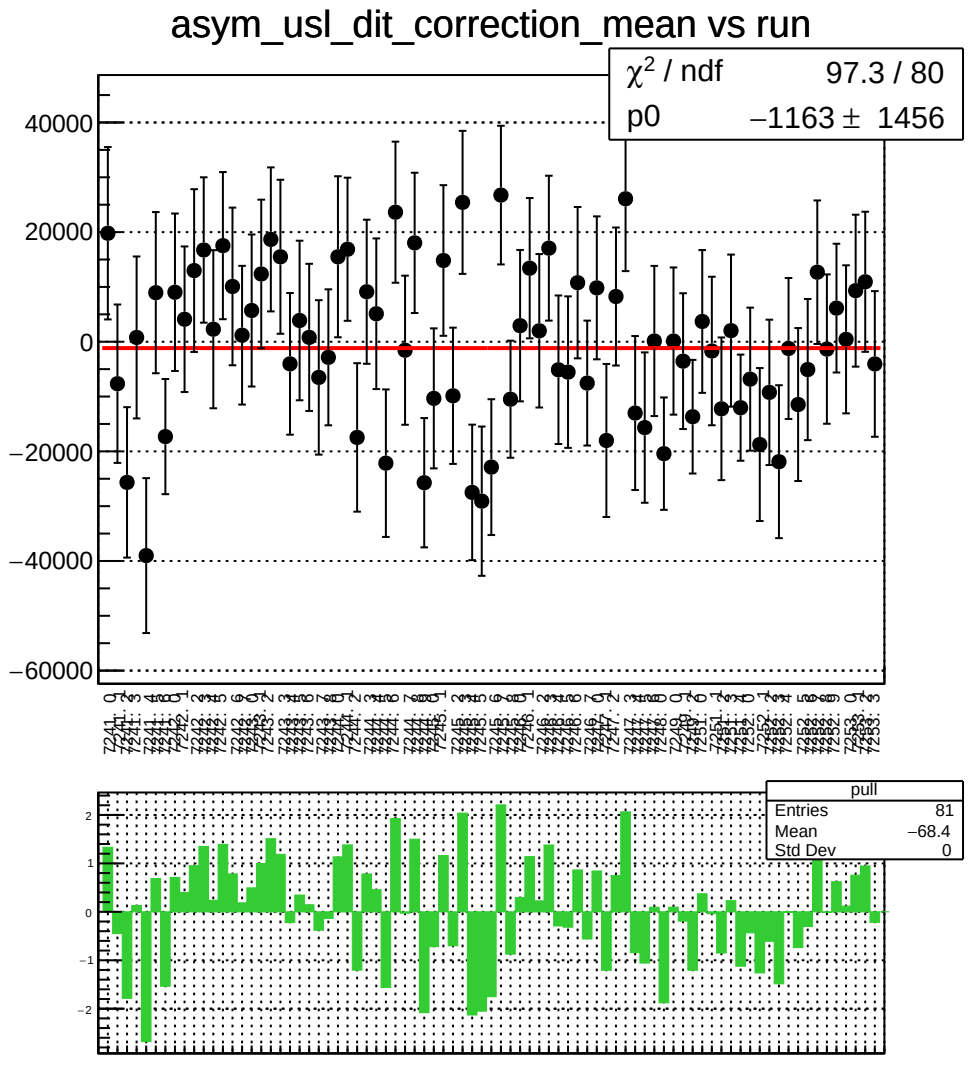

pull1D
Entries 81
Mean 0.03096
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

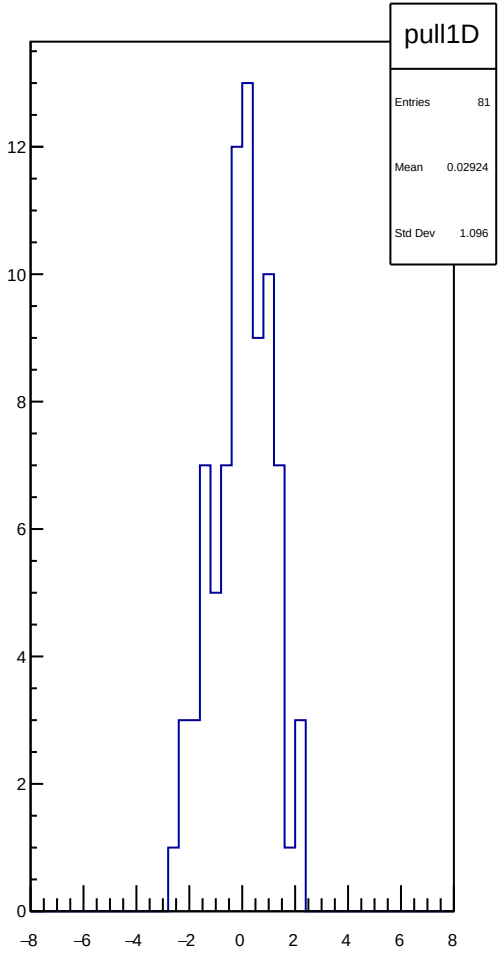

asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 3460 / 80
p0 1267 ± 1.019
1500
1450
1400
1350
1300
1250
1200
1150

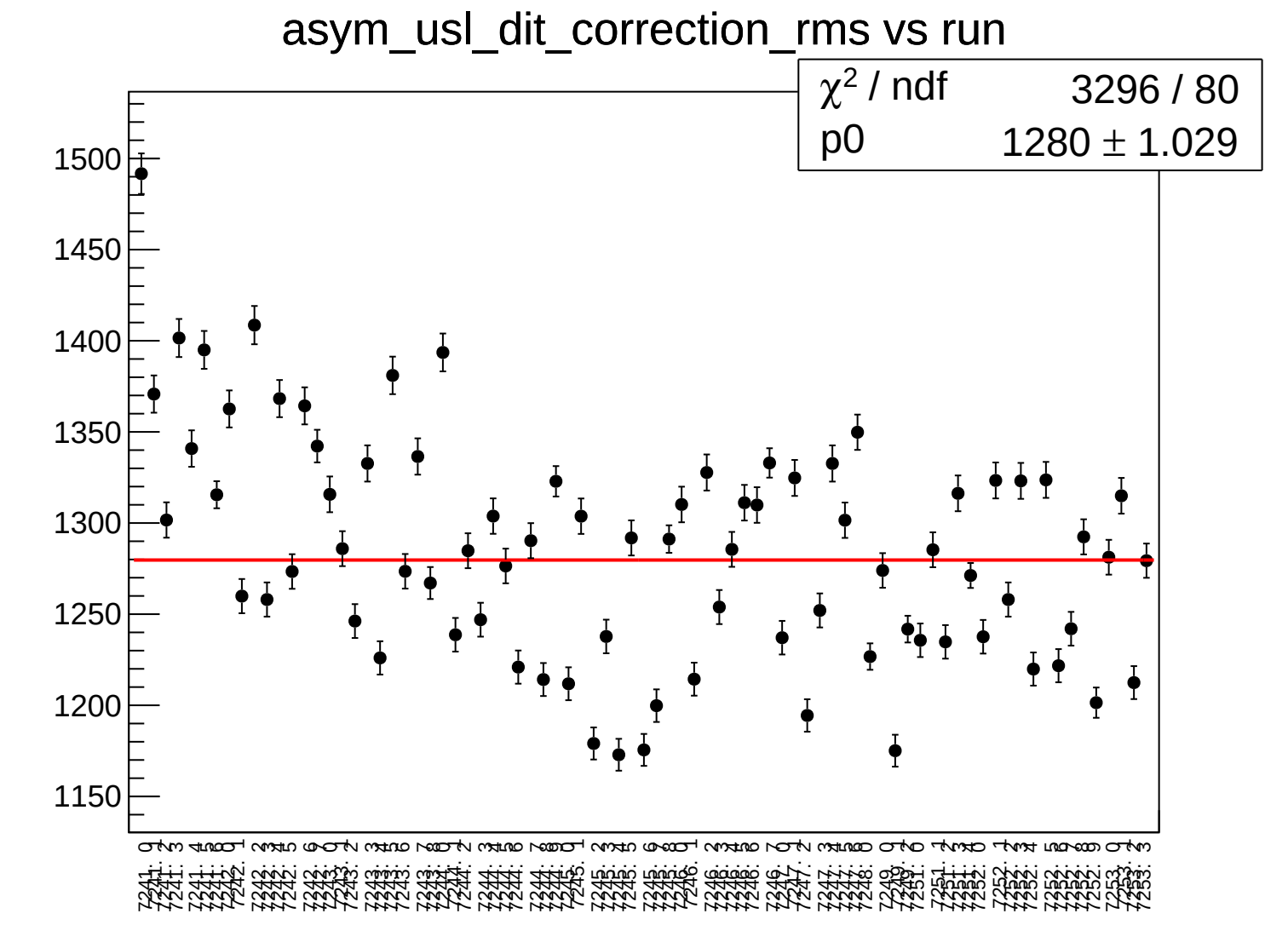

dit_asym_usl_mean vs run
χ² / ndf 89.87 / 80
p0 891.8 ± 1249
pull
Entries 81
Mean 406.7
Std Dev 0

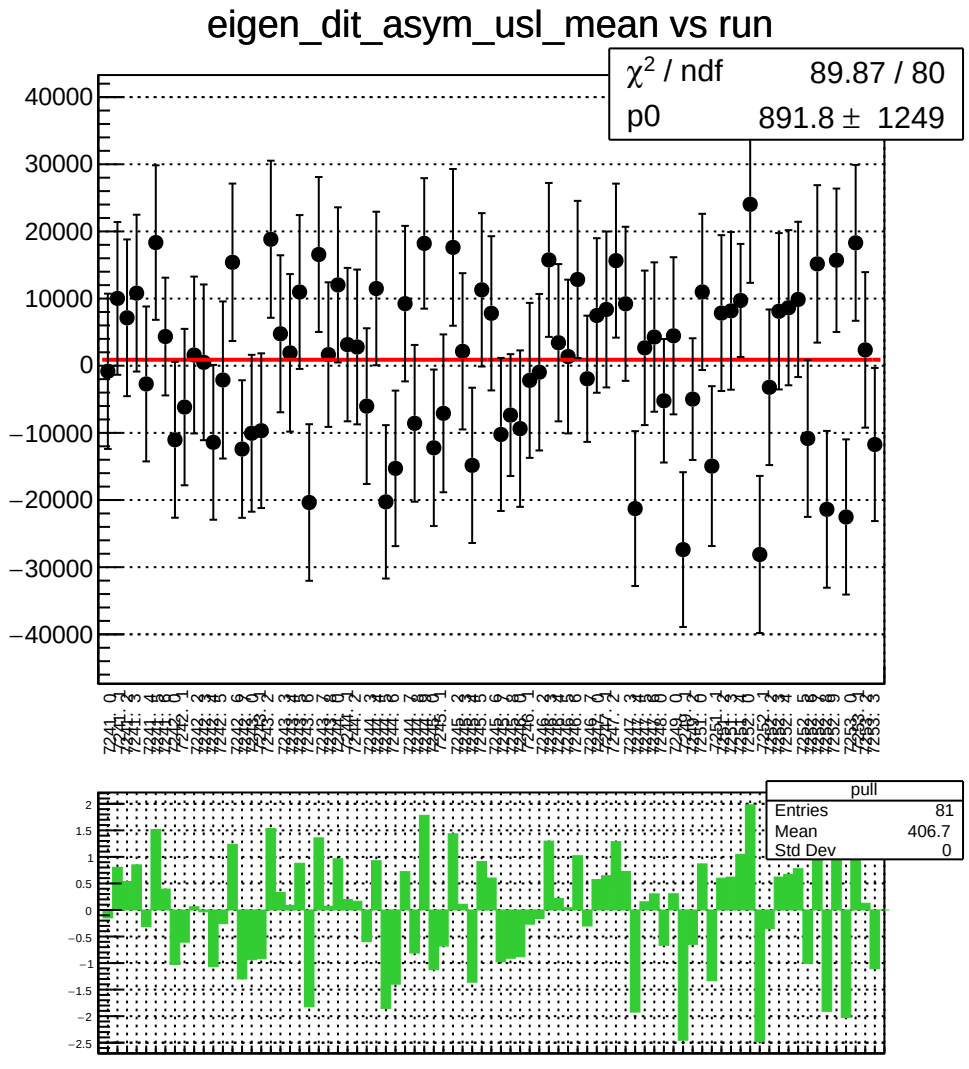

pull1D
Entries 81
Mean −0.002299
Std Dev 1.053

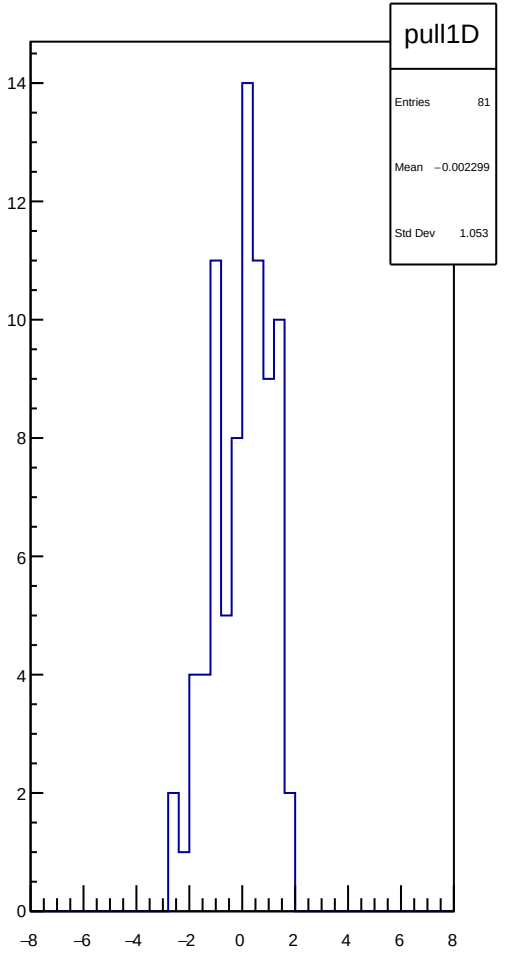

dit_asym_usl_rms vs run
χ^2 / ndf 109.7 / 80
p0 1099 ± 0.883
1140
1130
1120
1110
1100
1090
1080
1070

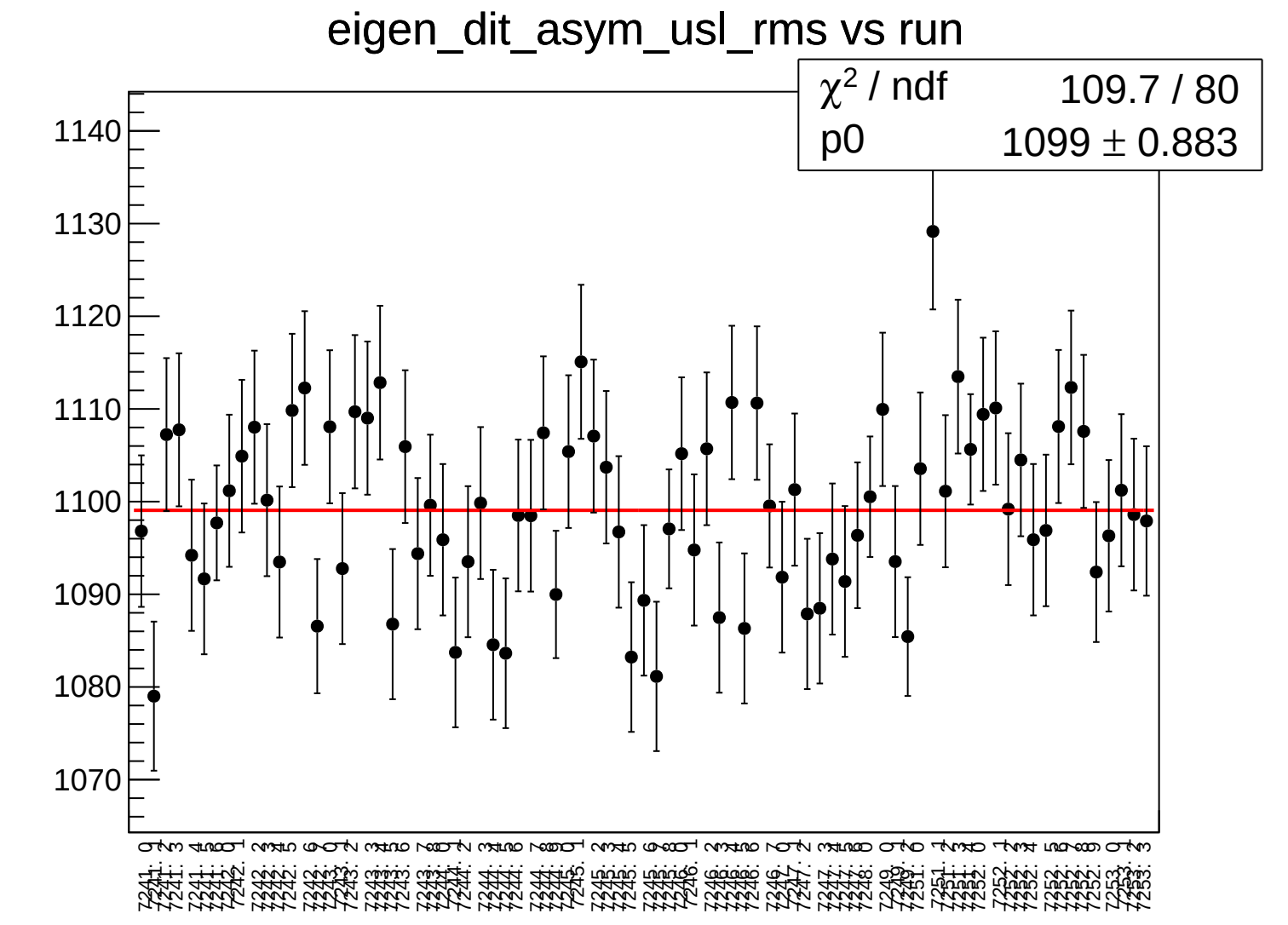

asym_usl_dit_correction_mean vs run
χ² / ndf 97.3 / 80
p0 −1163 ± 1456
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −68.4
Std Dev 0
2
1
0
−1
−2

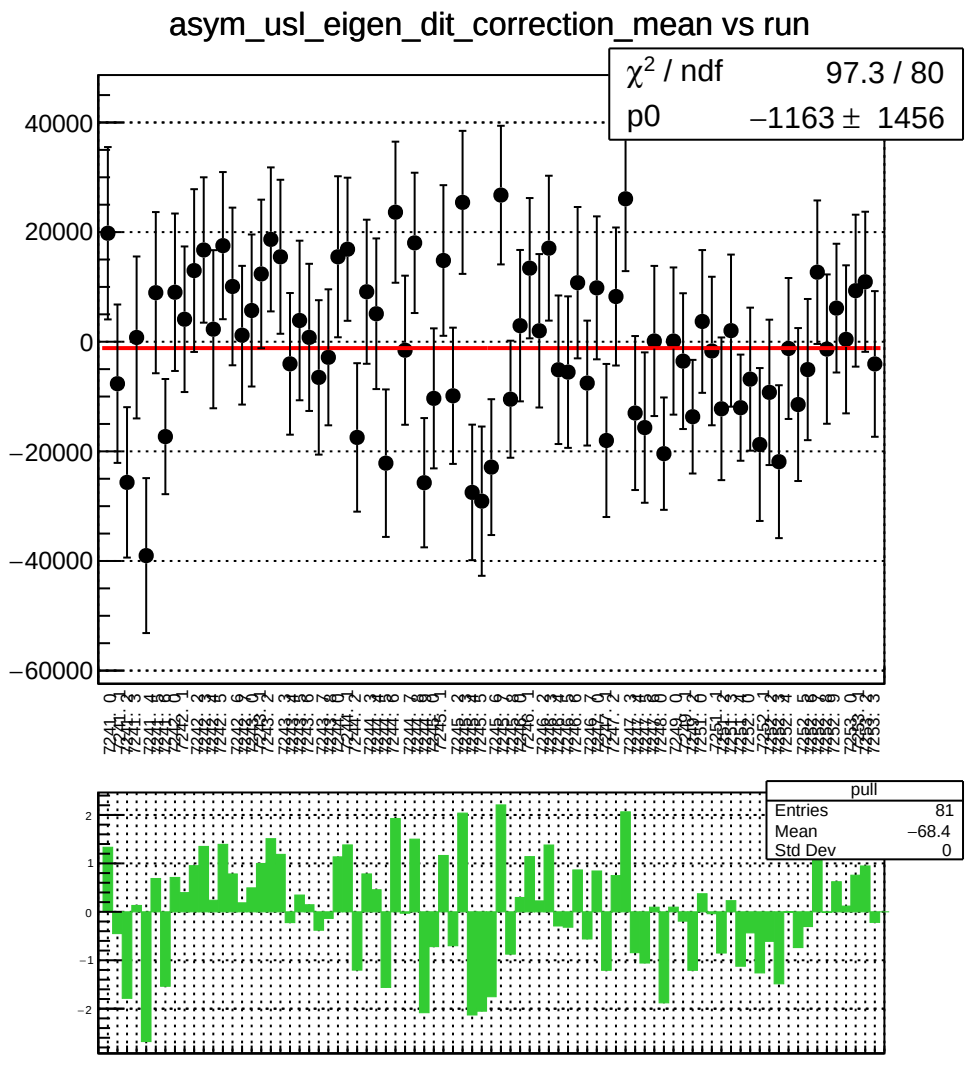

pull1D
Entries 81
Mean 0.02924
Std Dev 1.096
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

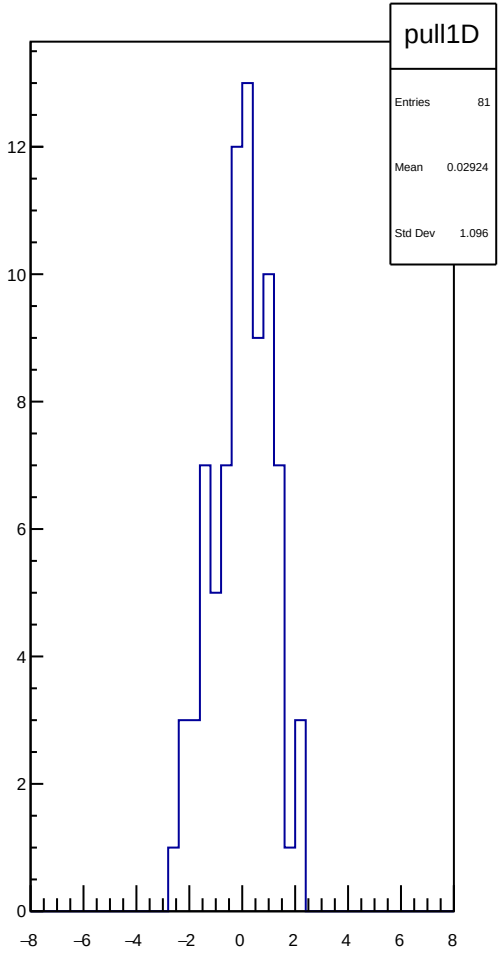

asym_usl_dit_correction_rms vs run
χ² / ndf 3296 / 80
p0 1280 ± 1.029
1500
1450
1400
1350
1300
1250
1200
1150

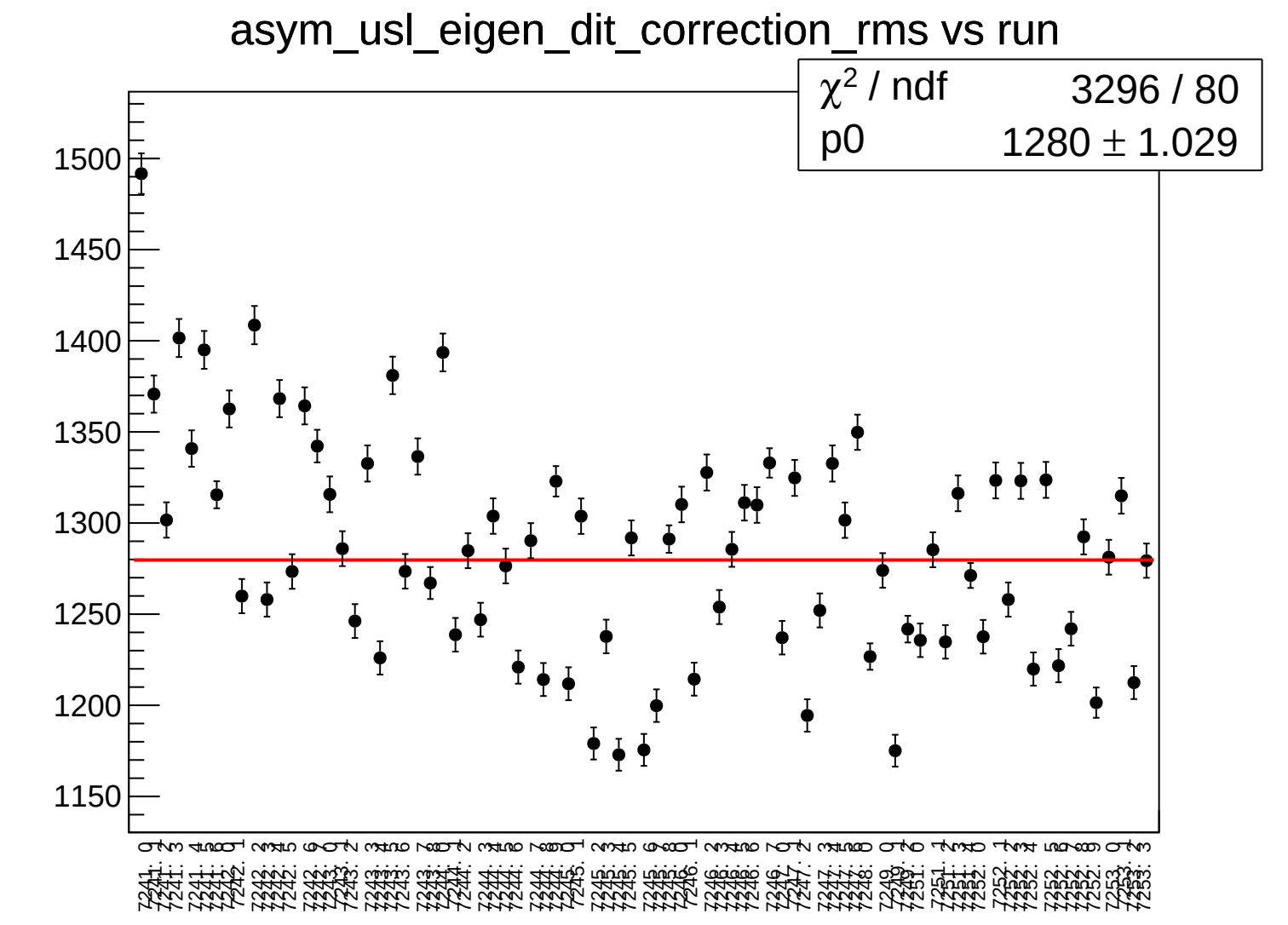

eigen_dit_asym_usl_mean vs run
χ² / ndf 89.87 / 80
p0 891.8 ± 1249
pull
Entries 81
Mean 406.7
Std Dev 0

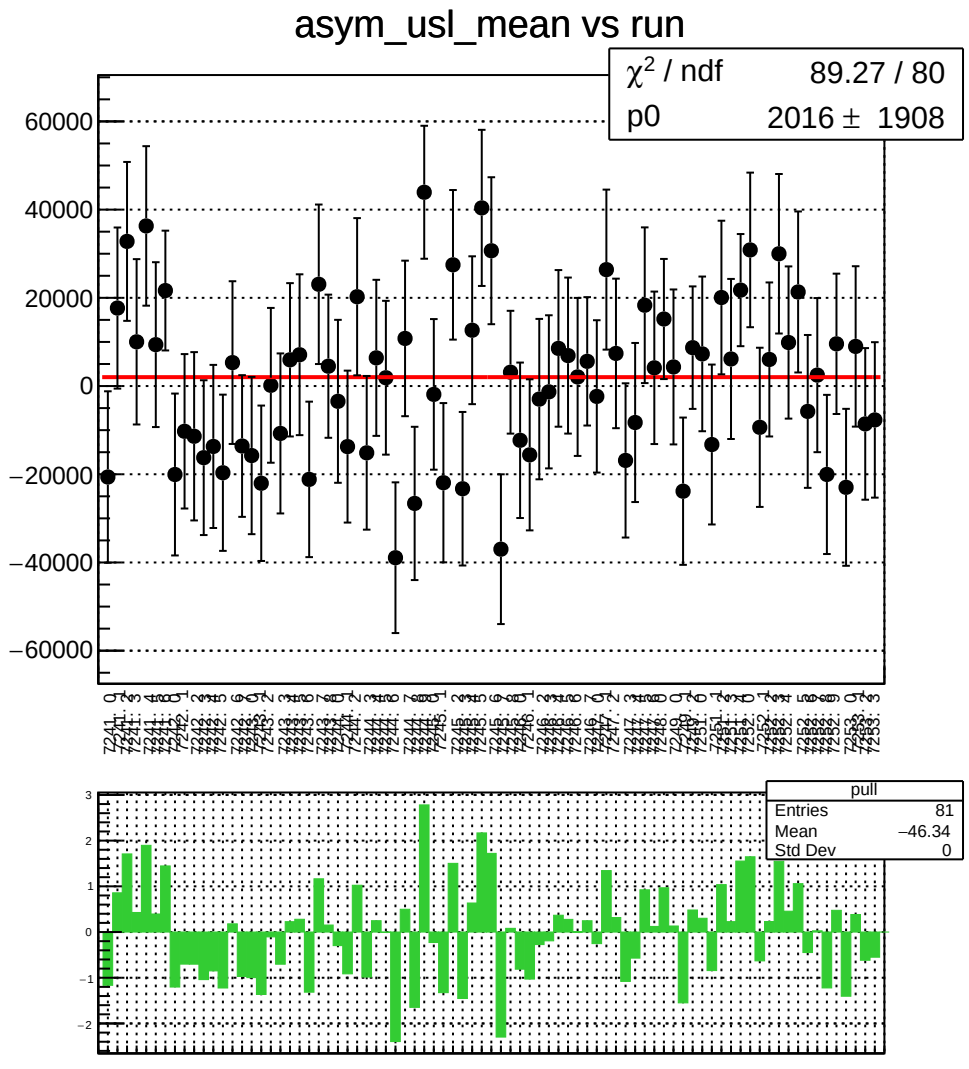

pull1D
Entries 81
Mean −0.002299
Std Dev 1.053

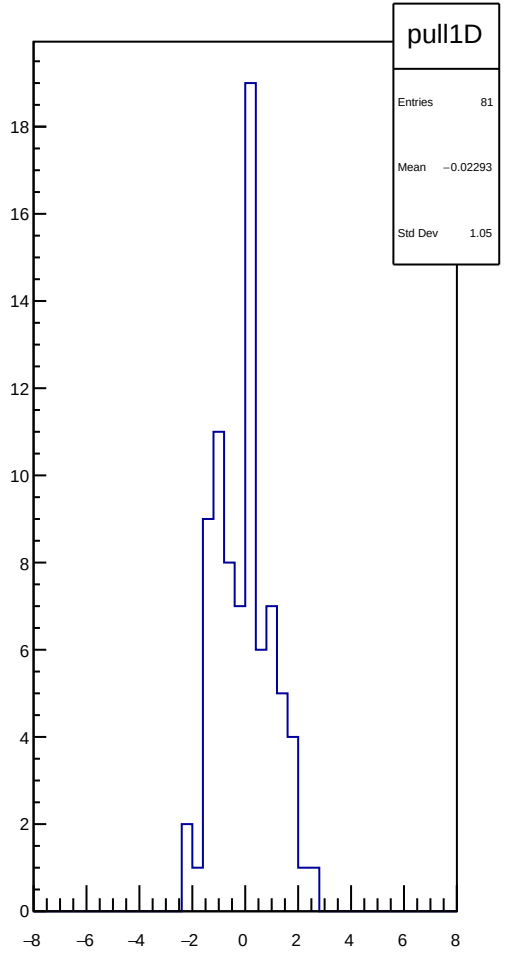

eigen_dit_asym_usl_rms vs run
χ² / ndf 109.7 / 80
p0 1099 ± 0.883
1140
1130
1120
1110
1100
1090
1080
1070

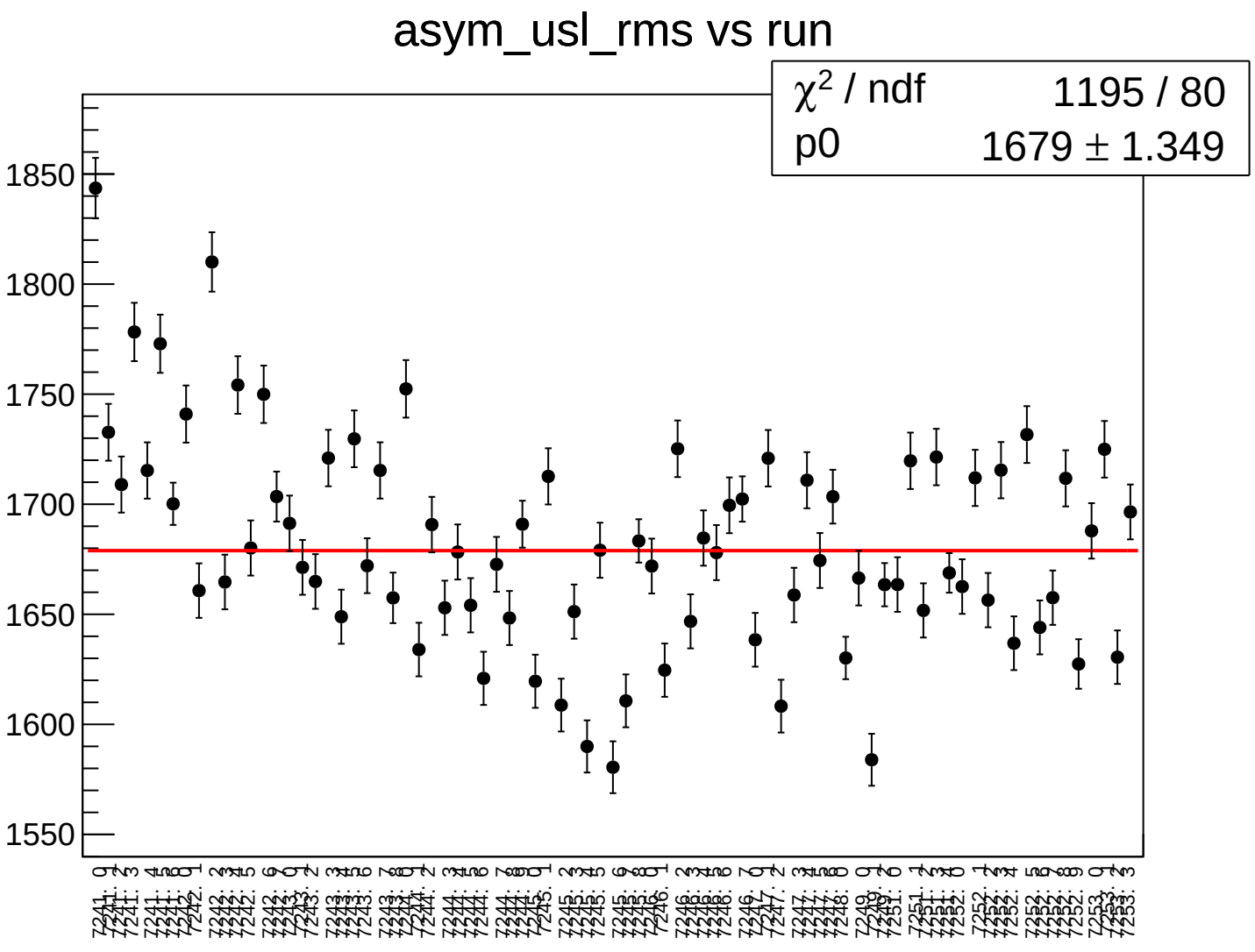

asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 97.3 / 80
p0 −1163 ± 1456
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −68.4
Std Dev 0
2
1
0
−1
−2

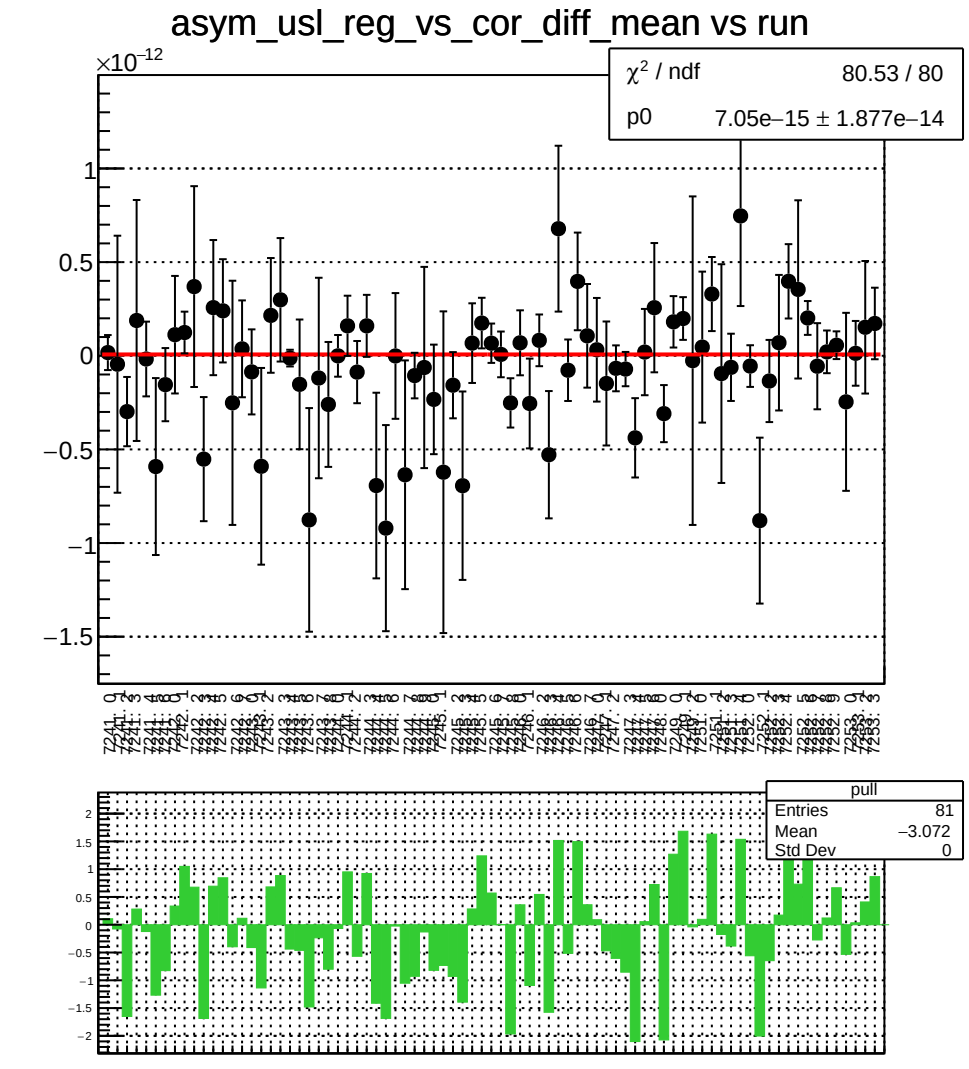

pull1D
Entries 81
Mean 0.02924
Std Dev 1.096
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

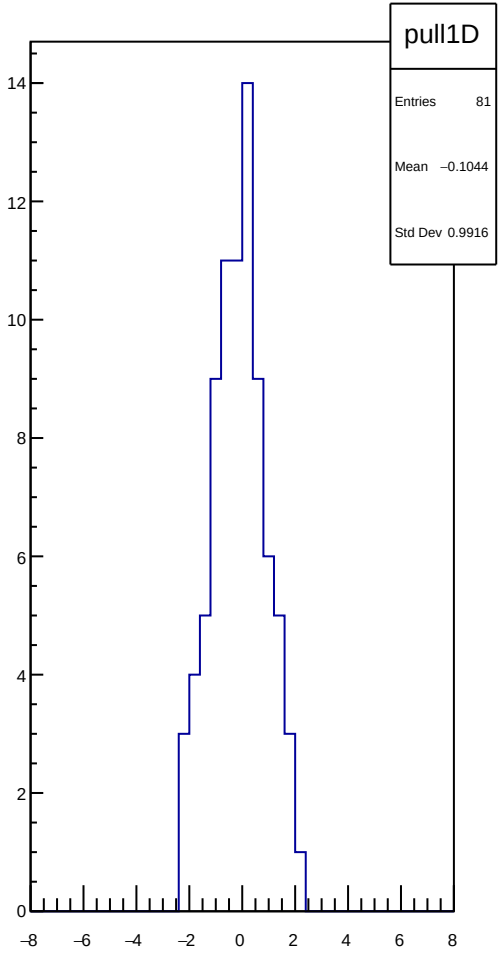

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 3296 / 80
p0 1280 ± 1.029
1500
1450
1400
1350
1300
1250
1200
1150

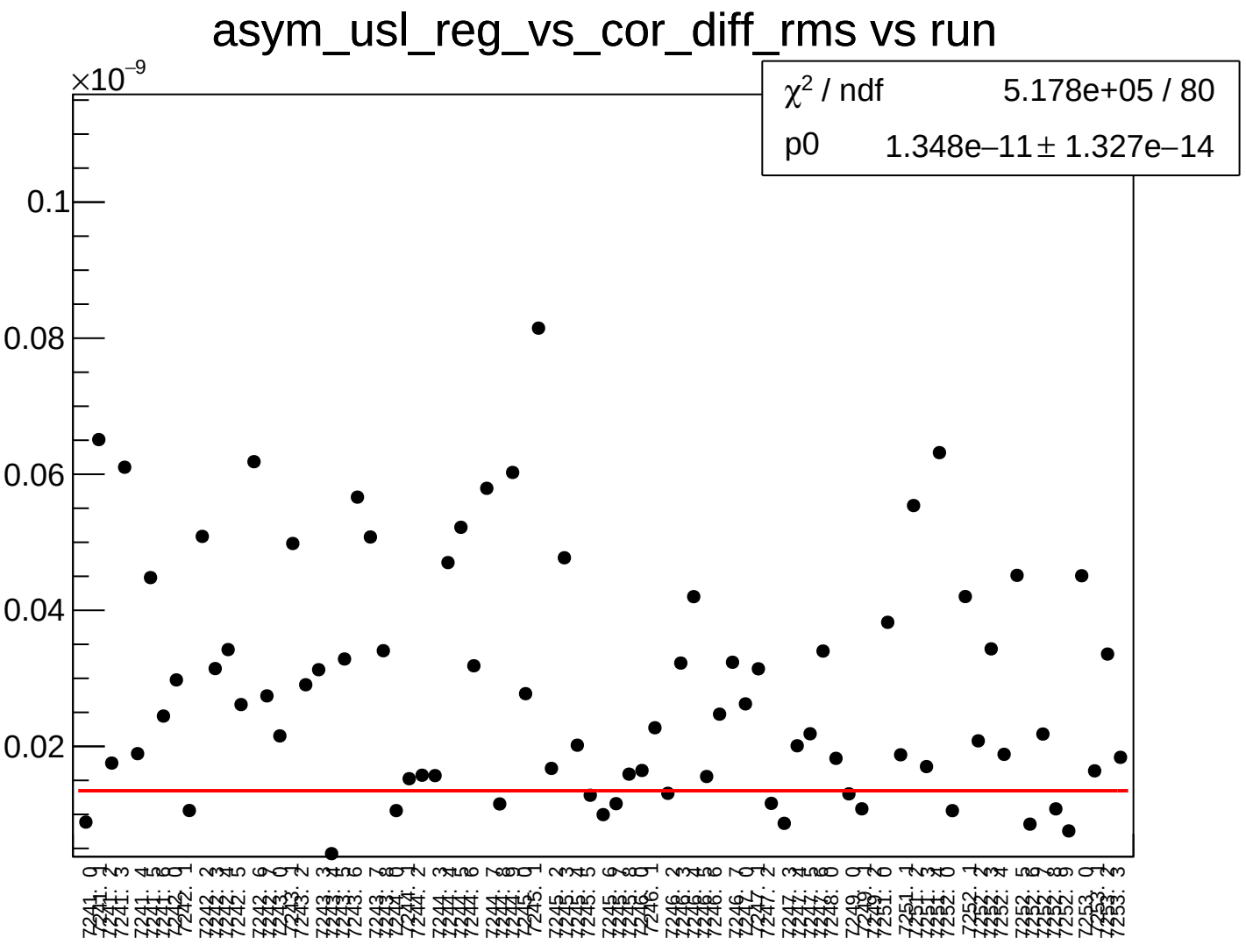

asym_usl_mean vs run
χ² / ndf 89.27 / 80
p0 2016 ± 1908
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −46.34
Std Dev 0
3
2
1
0
−1
−2

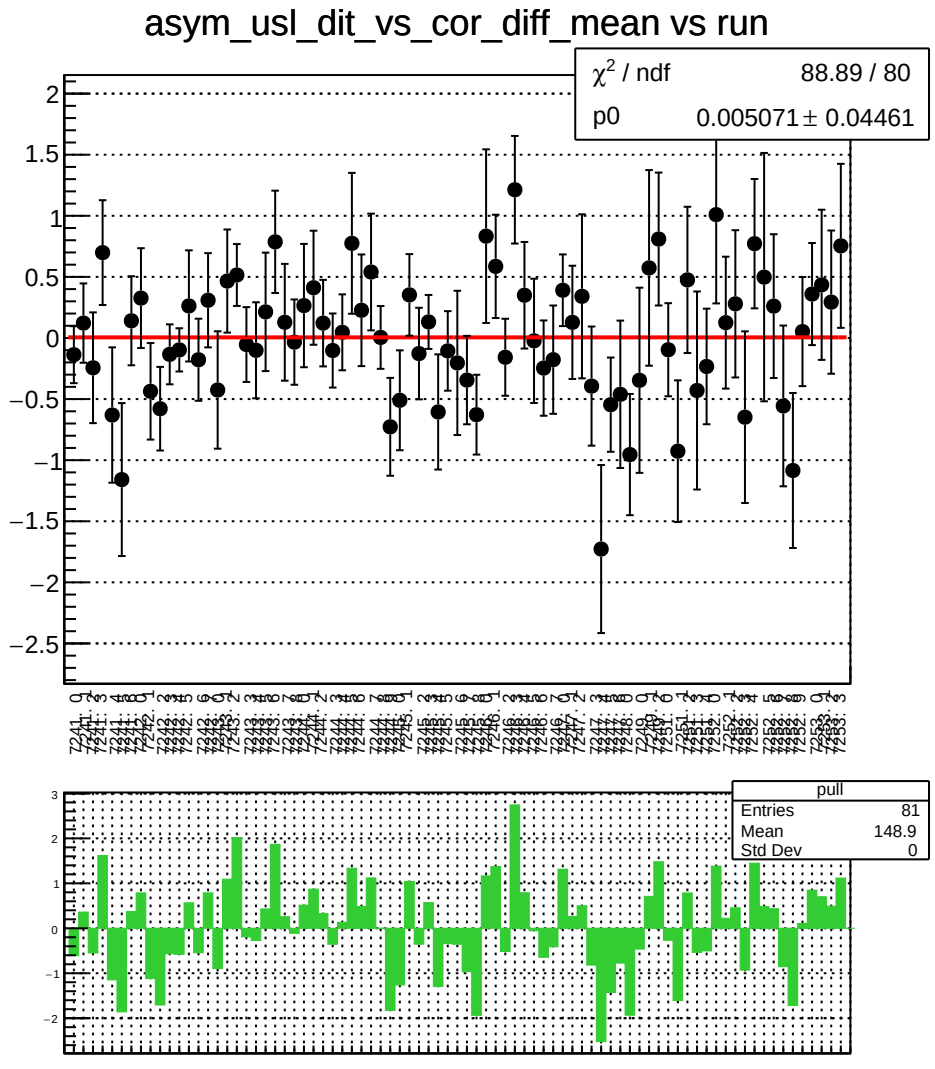

pull1D
Entries 81
Mean −0.02293
Std Dev 1.05
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

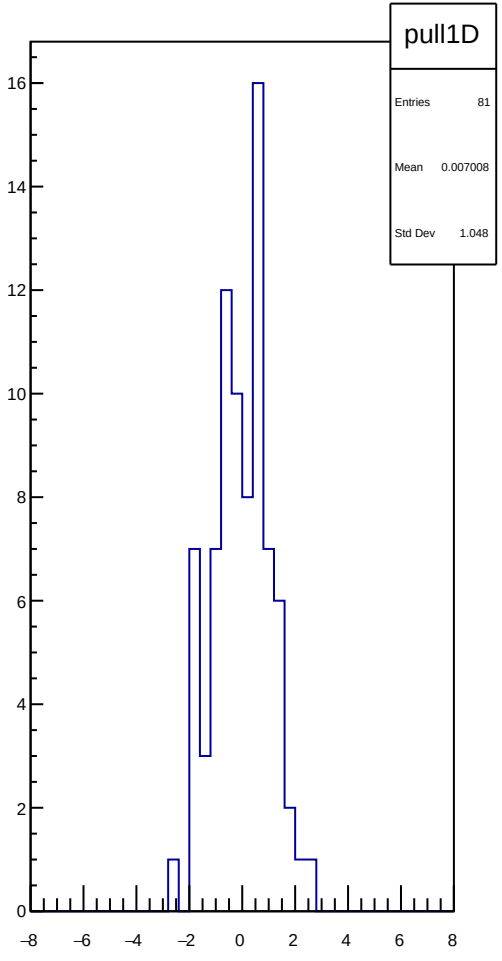

asym_usl_rms vs run
χ² / ndf 1195 / 80
p0 1679 ± 1.349
1850
1800
1750
1700
1650
1600
1550

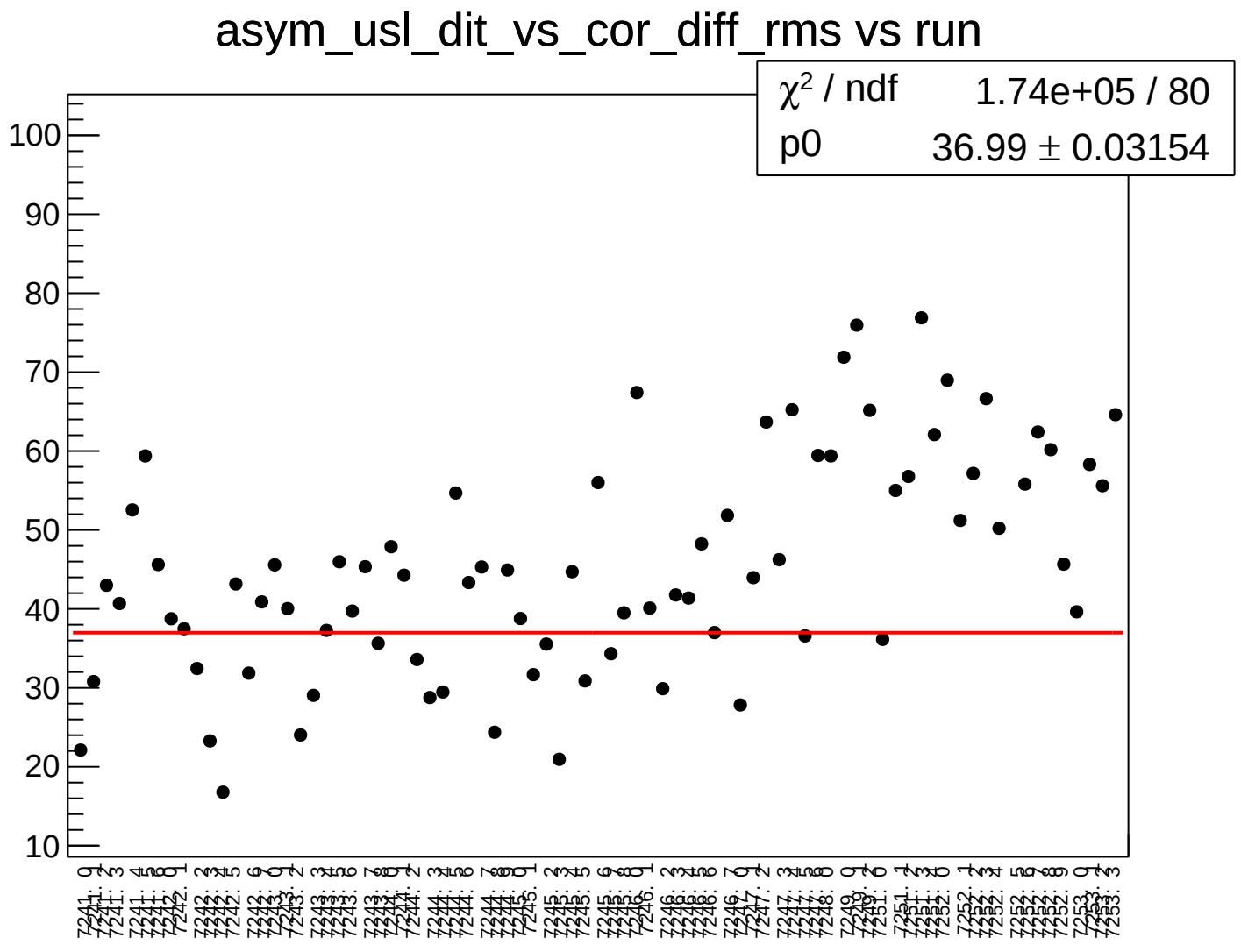

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.53 / 80
p0 7.05e−15 ± 1.877e−14
pull
Entries 81
Mean −3.072
Std Dev 0

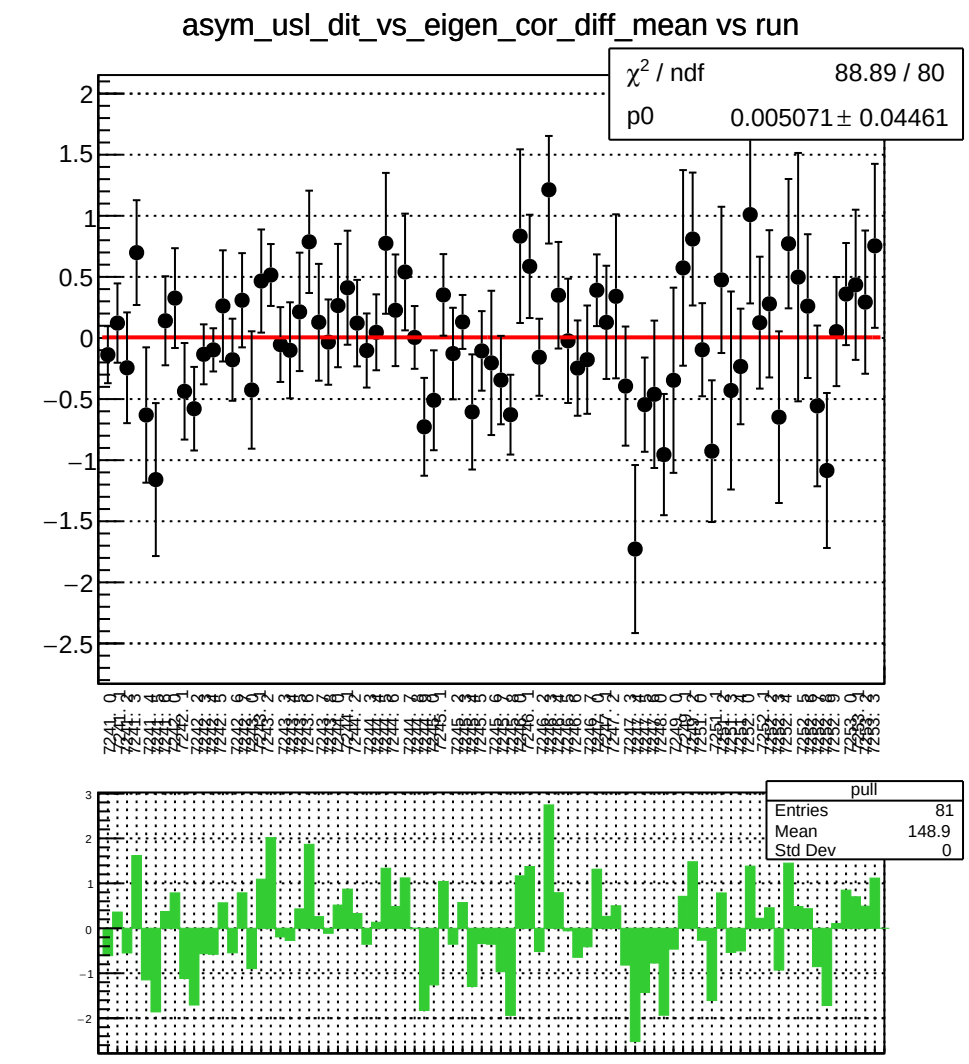

pull1D
Entries 81
Mean −0.1044
Std Dev 0.9916

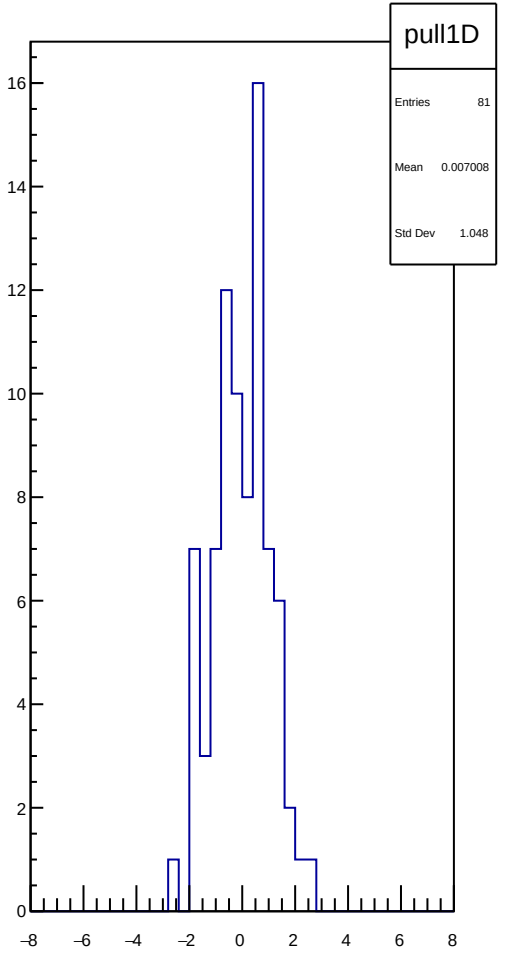

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.178e+05 / 80
p0 1.348e−11 ± 1.327e−14
0.1
0.08
0.06
0.04
0.02

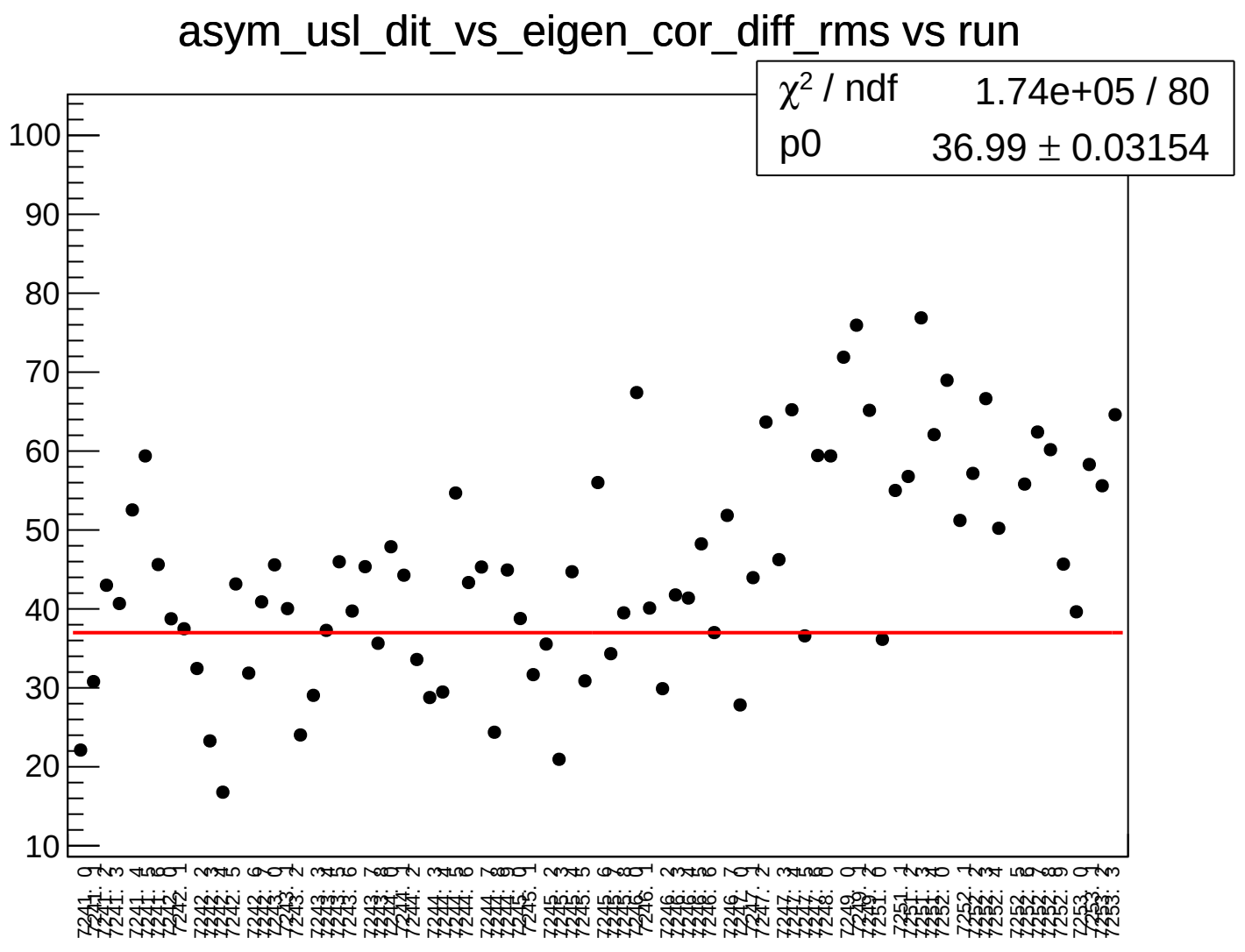

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 88.89 / 80
p0 0.005071 ± 0.04461
pull
Entries 81
Mean 148.9
Std Dev 0

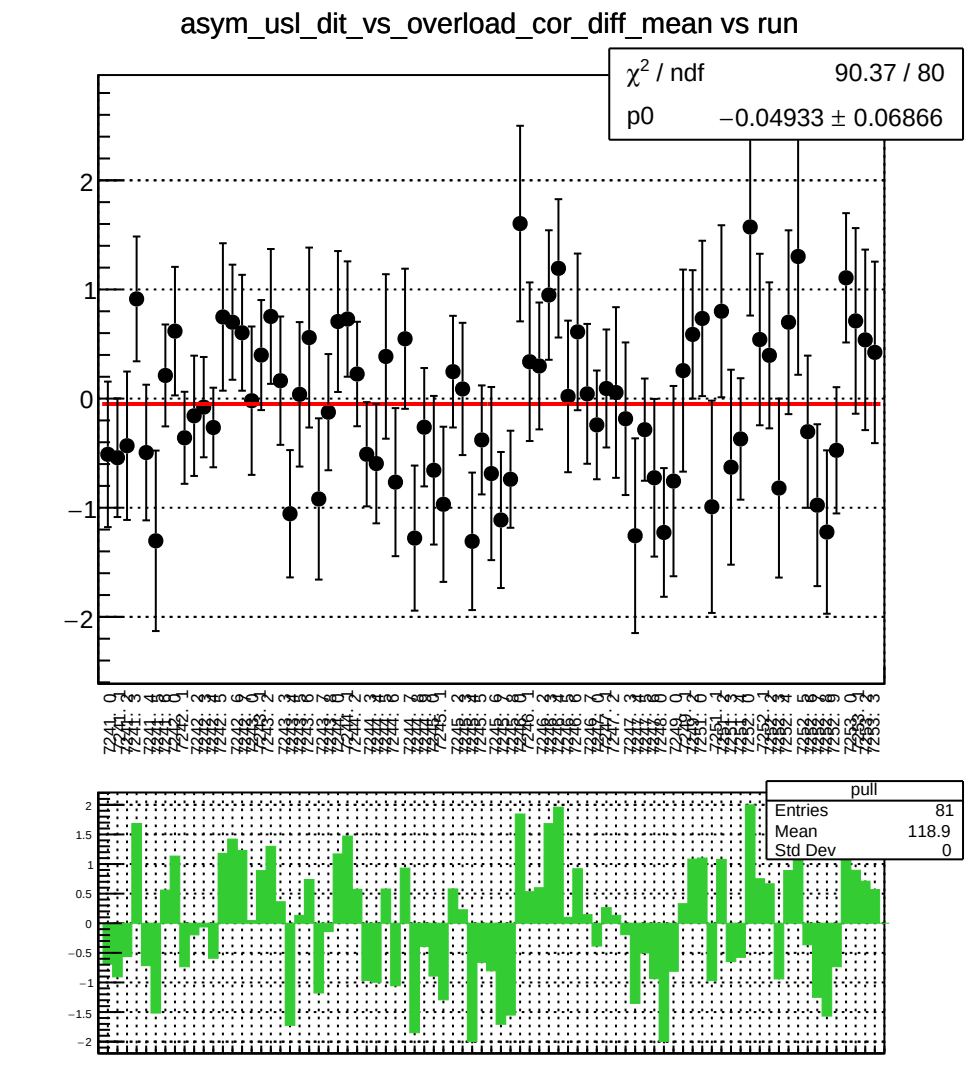

pull1D
Entries 81
Mean 0.007008
Std Dev 1.048

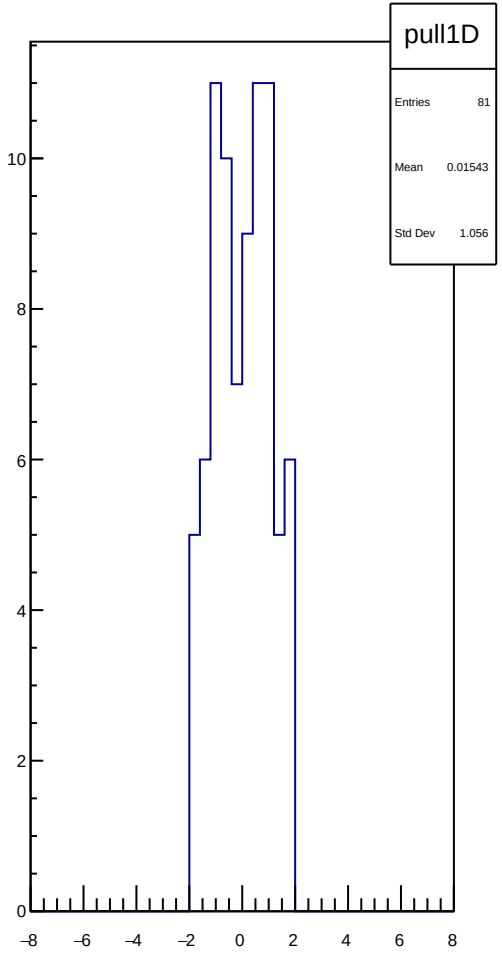

asym_usl_dit_vs_cor_diff_rms vs run
χ² / ndf 1.74e+05 / 80
p0 36.99 ± 0.03154
100
90
80
70
60
50
40
30
20
10

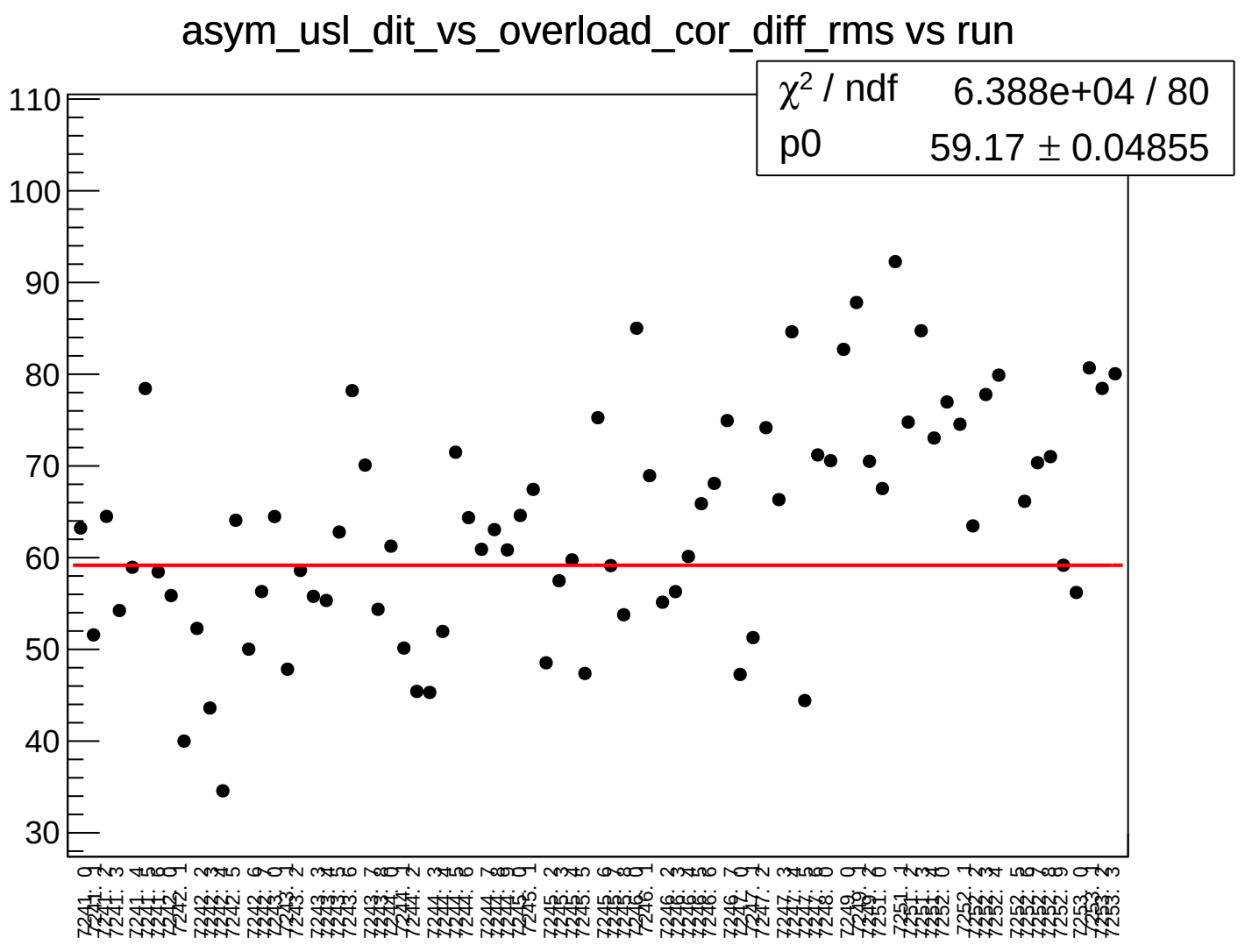

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.89 / 80
p0 0.005071 ± 0.04461
pull
Entries 81
Mean 148.9
Std Dev 0

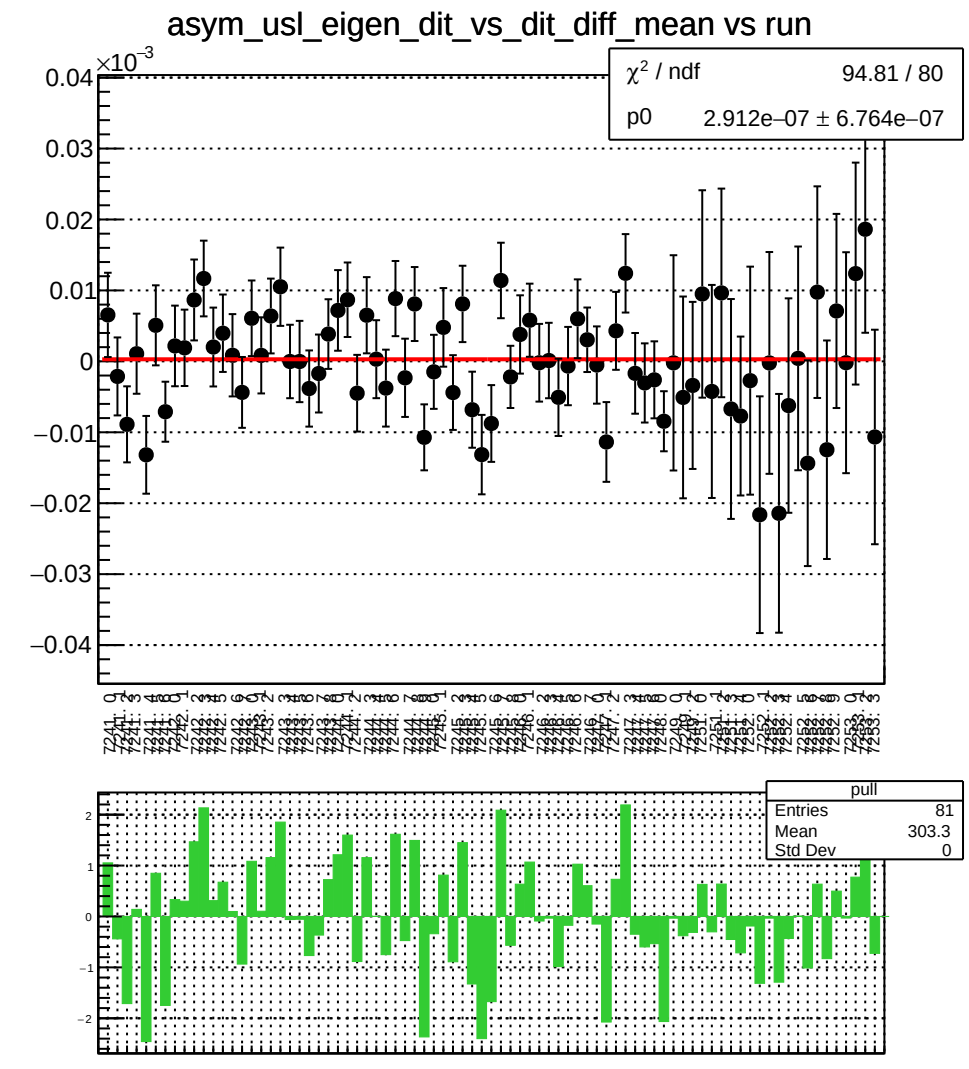

pull1D
Entries 81
Mean 0.007008
Std Dev 1.048

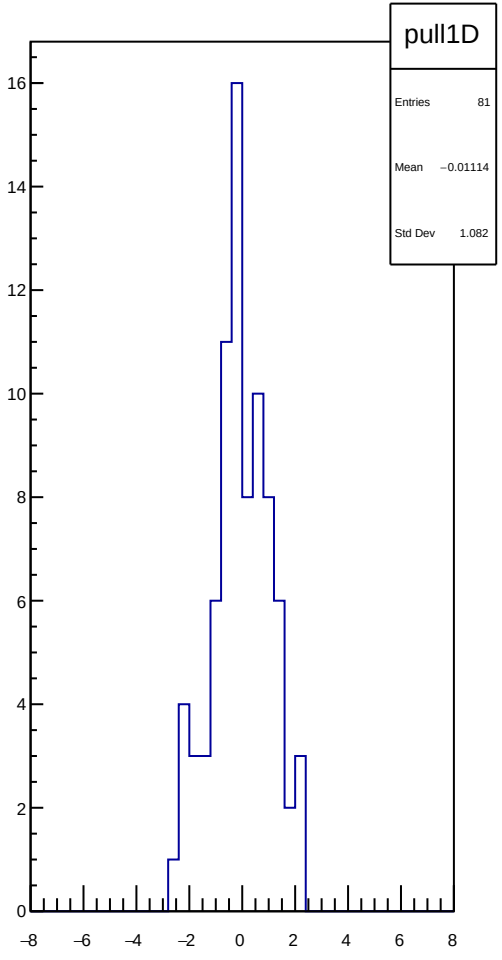

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.74e+05 / 80
p0 36.99 ± 0.03154
100
90
80
70
60
50
40
30
20
10

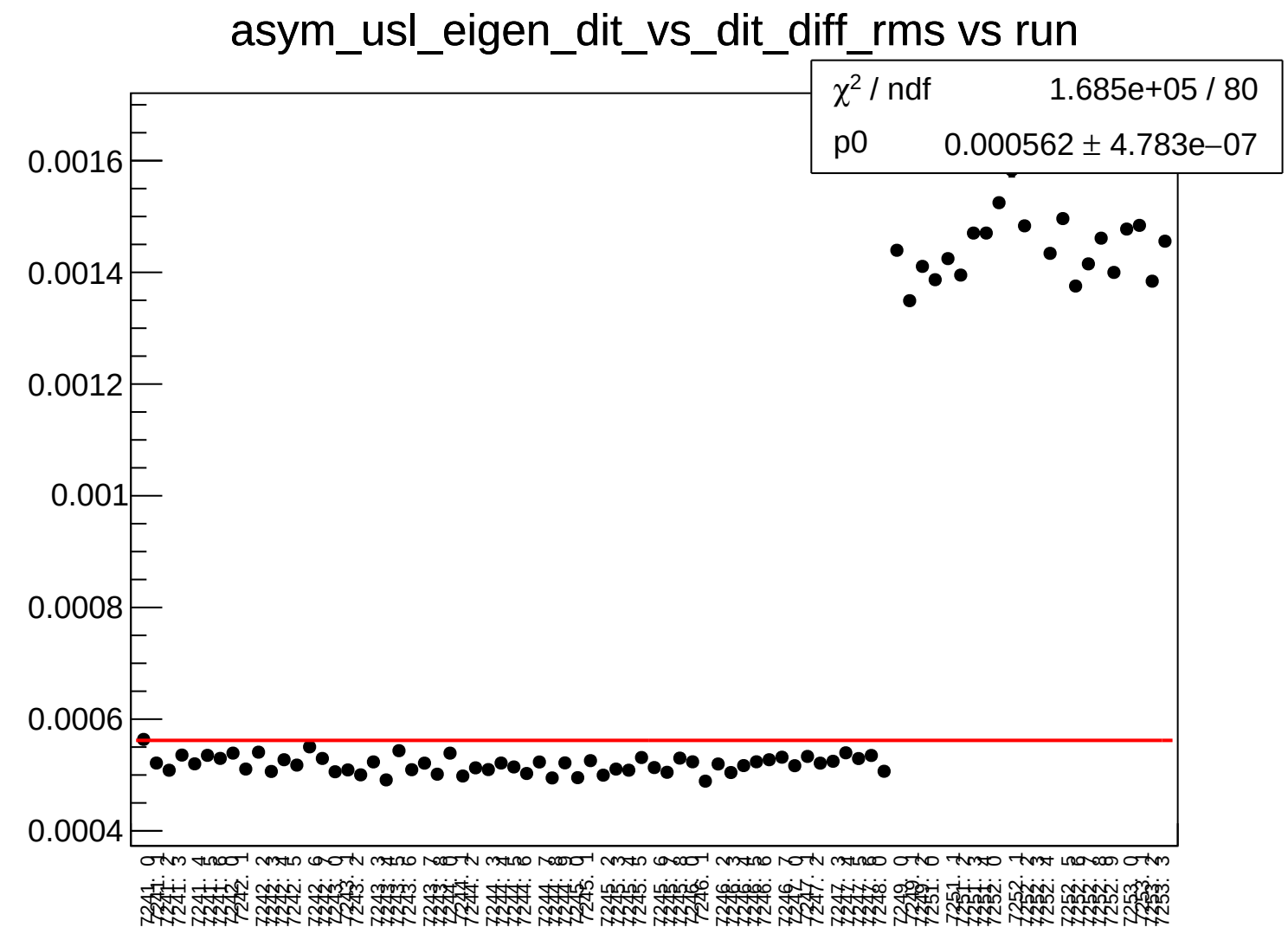

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 90.37 / 80
p0 −0.04933 ± 0.06866
pull
Entries 81
Mean 118.9
Std Dev 0

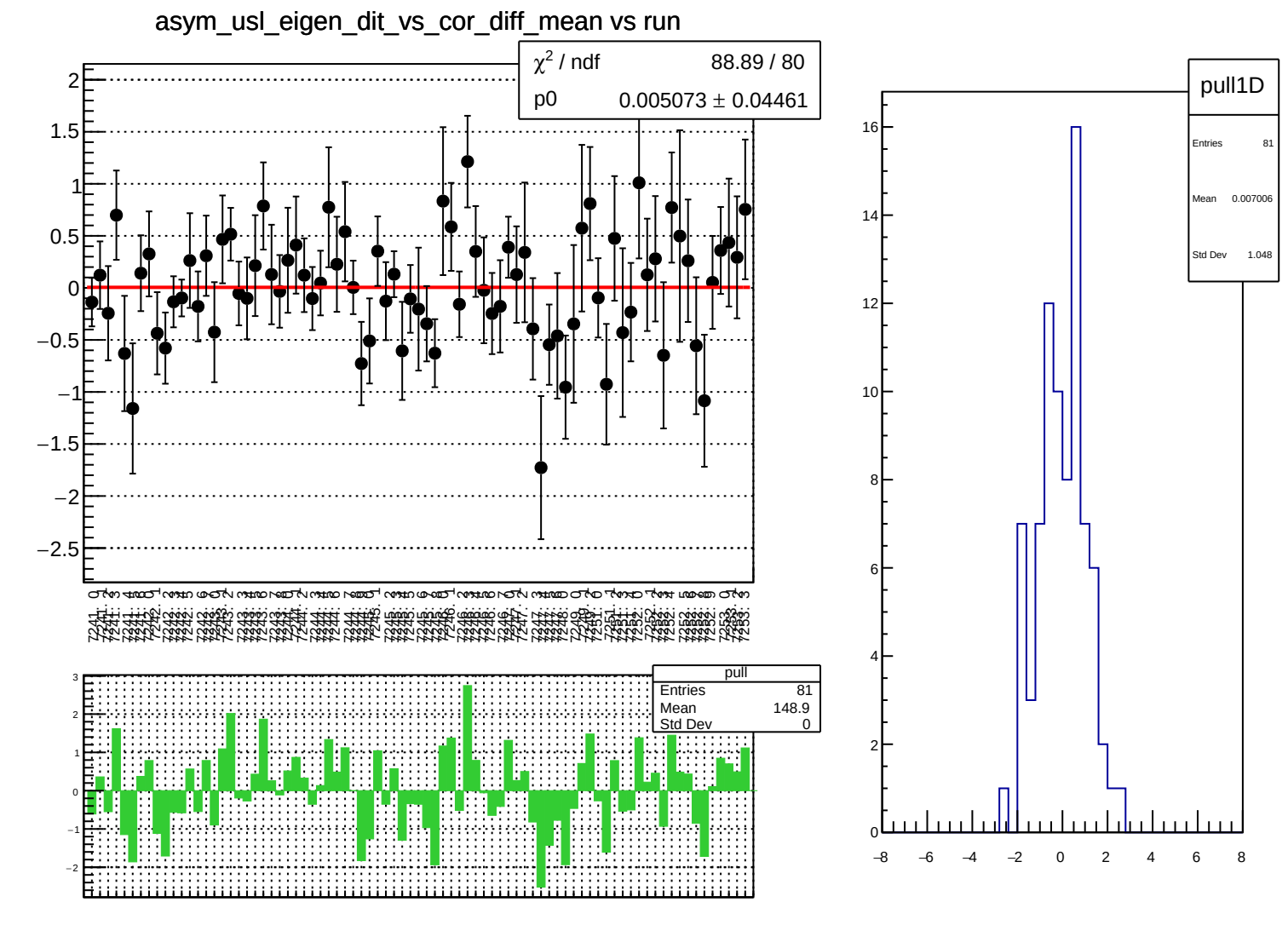

pull1D
Entries 81
Mean 0.01543
Std Dev 1.056

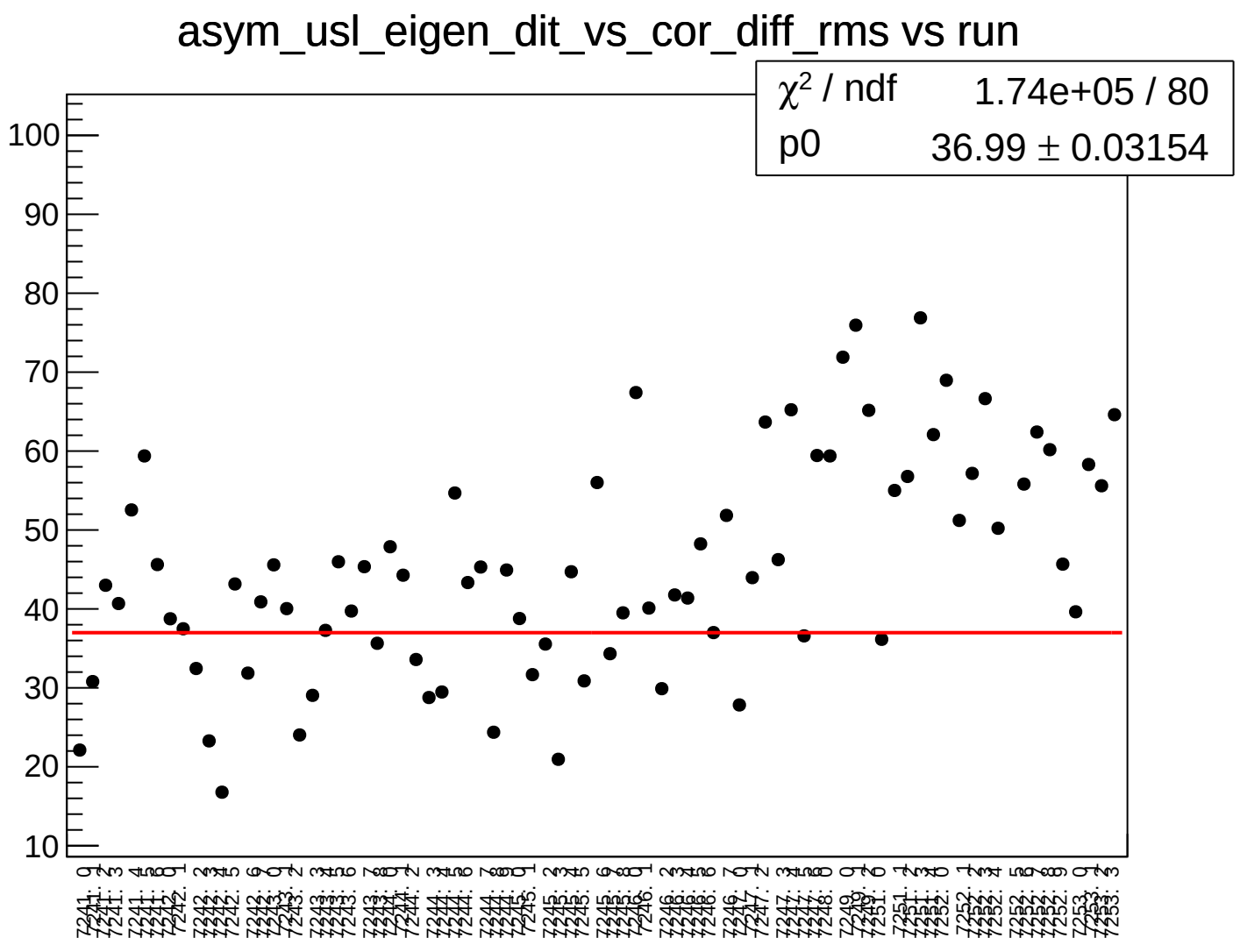

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 6.388e+04 / 80
p0 59.17 ± 0.04855
110
100
90
80
70
60
50
40
30

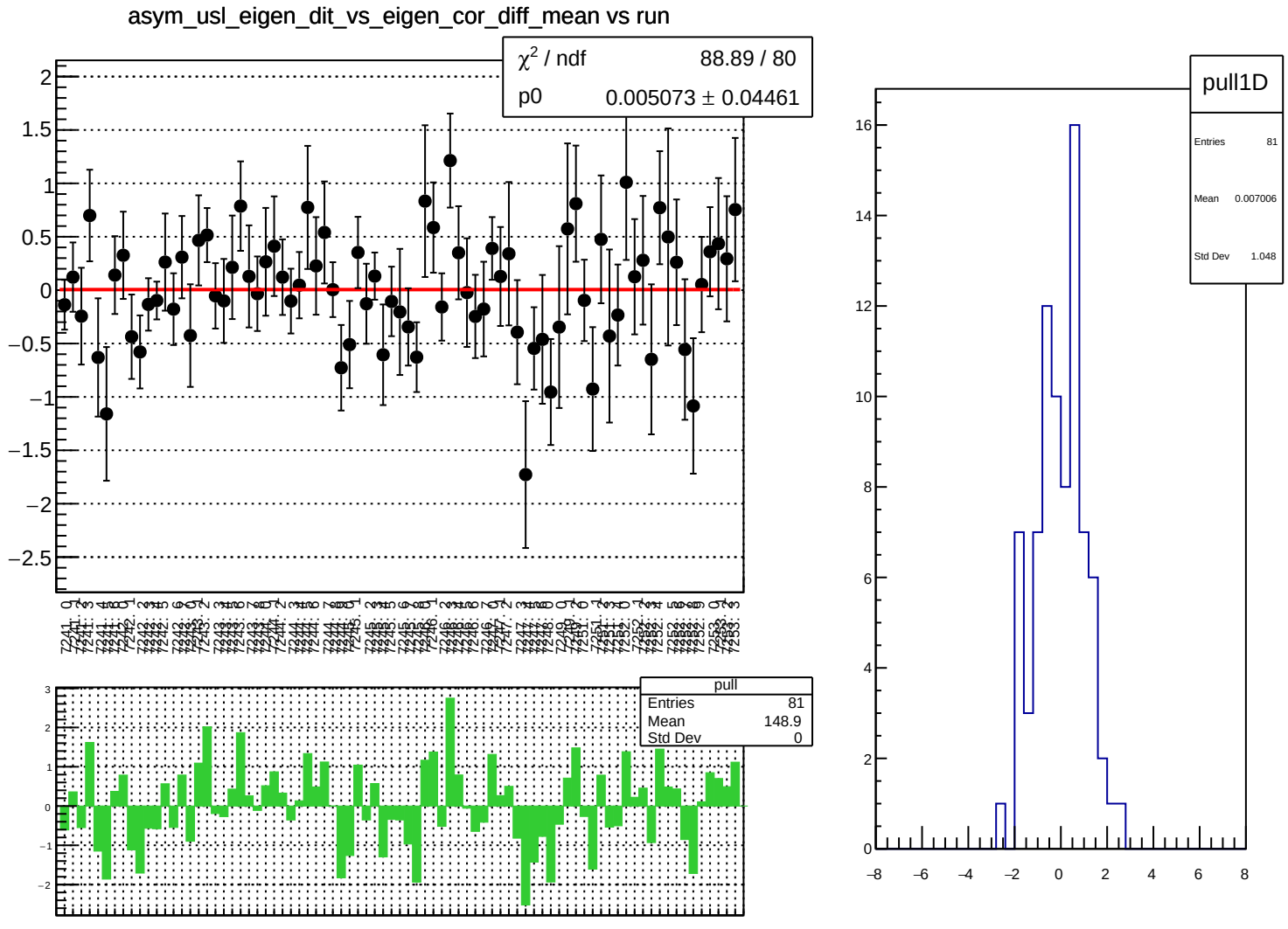

asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.81 / 80
p0 2.912e−07 ± 6.764e−07
pull
Entries 81
Mean 303.3
Std Dev 0

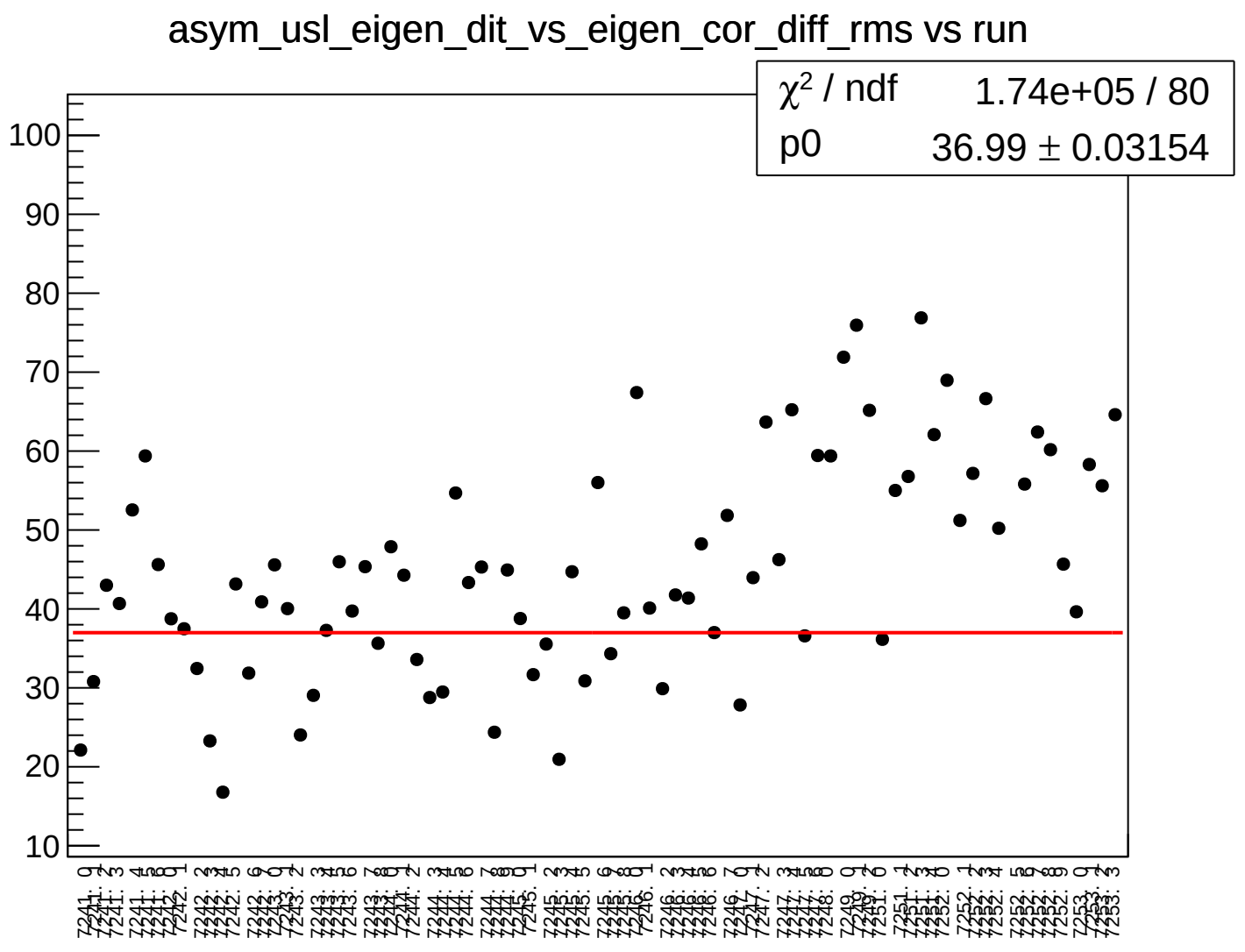

pull1D
Entries 81
Mean −0.01114
Std Dev 1.082

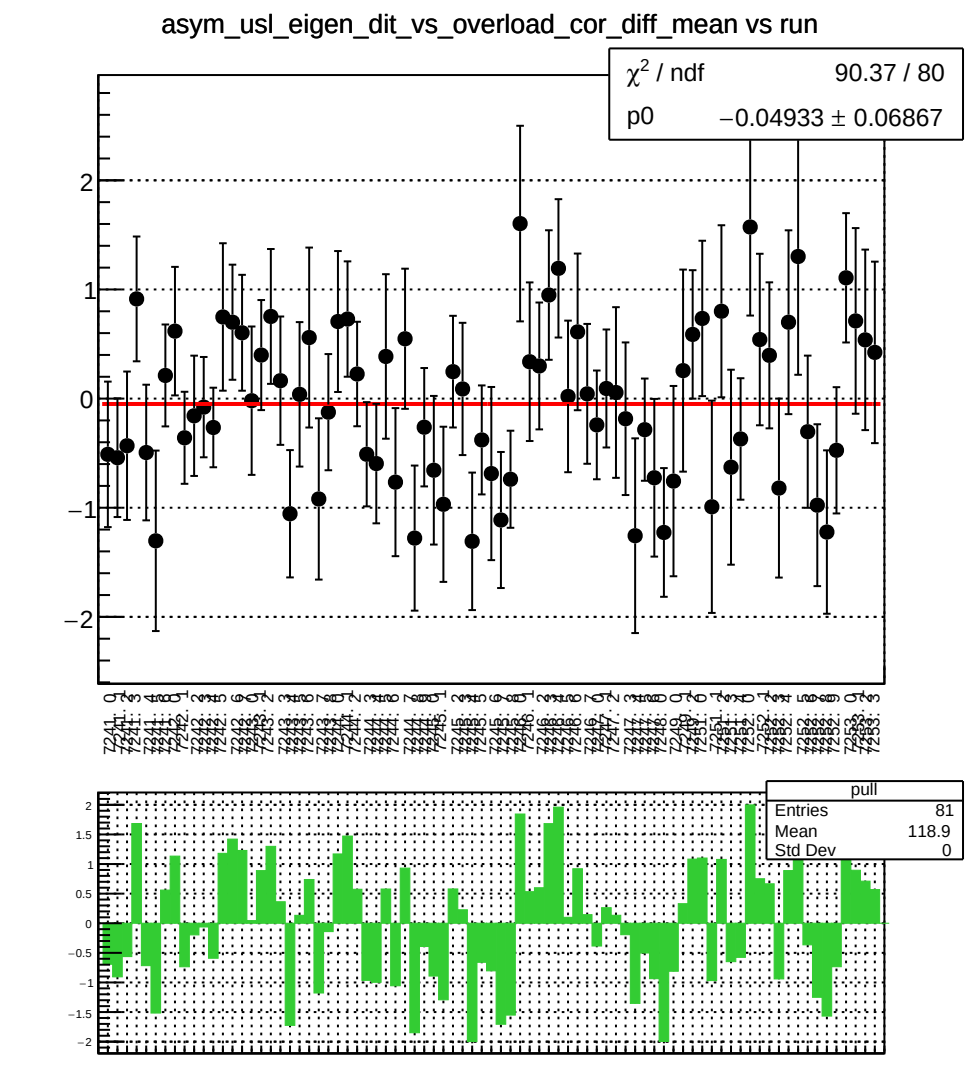

asym_usl_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.685e+05 / 80
p0 0.000562 ± 4.783e−07
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004

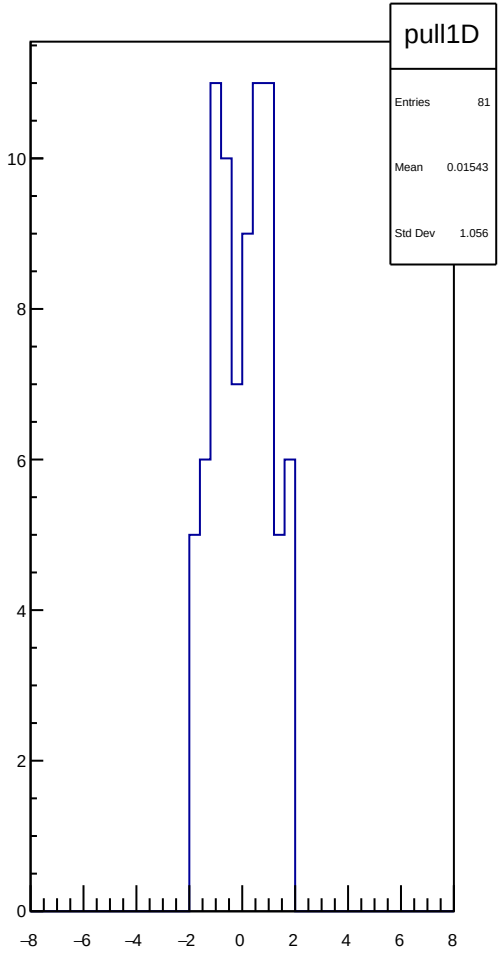

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.89 / 80
p0 0.005073 ± 0.04461
pull
Entries 81
Mean 148.9
Std Dev 0
pull1D
Entries 81
Mean 0.007006
Std Dev 1.048

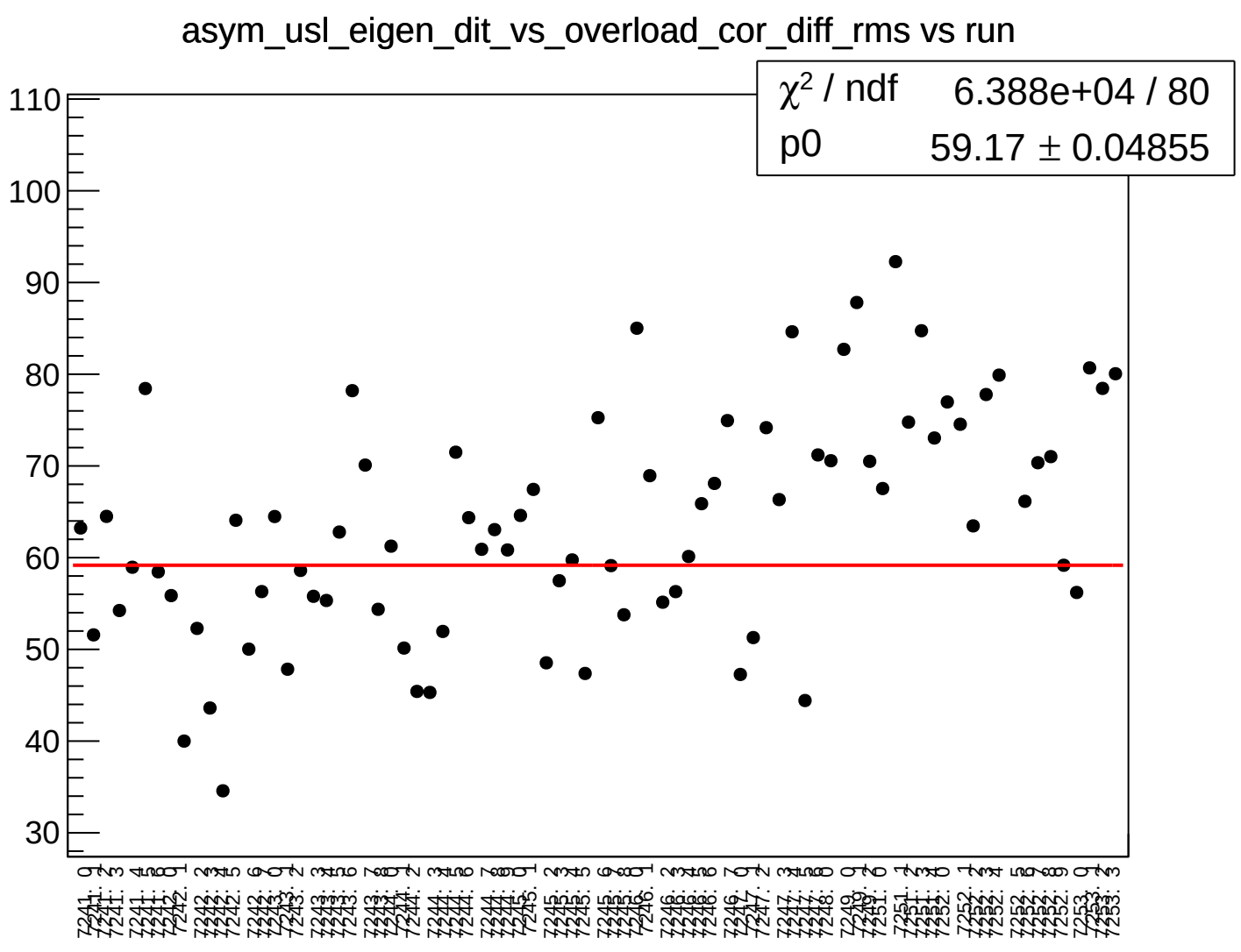

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.74e+05 / 80
p0 36.99 ± 0.03154
100
90
80
70
60
50
40
30
20
10

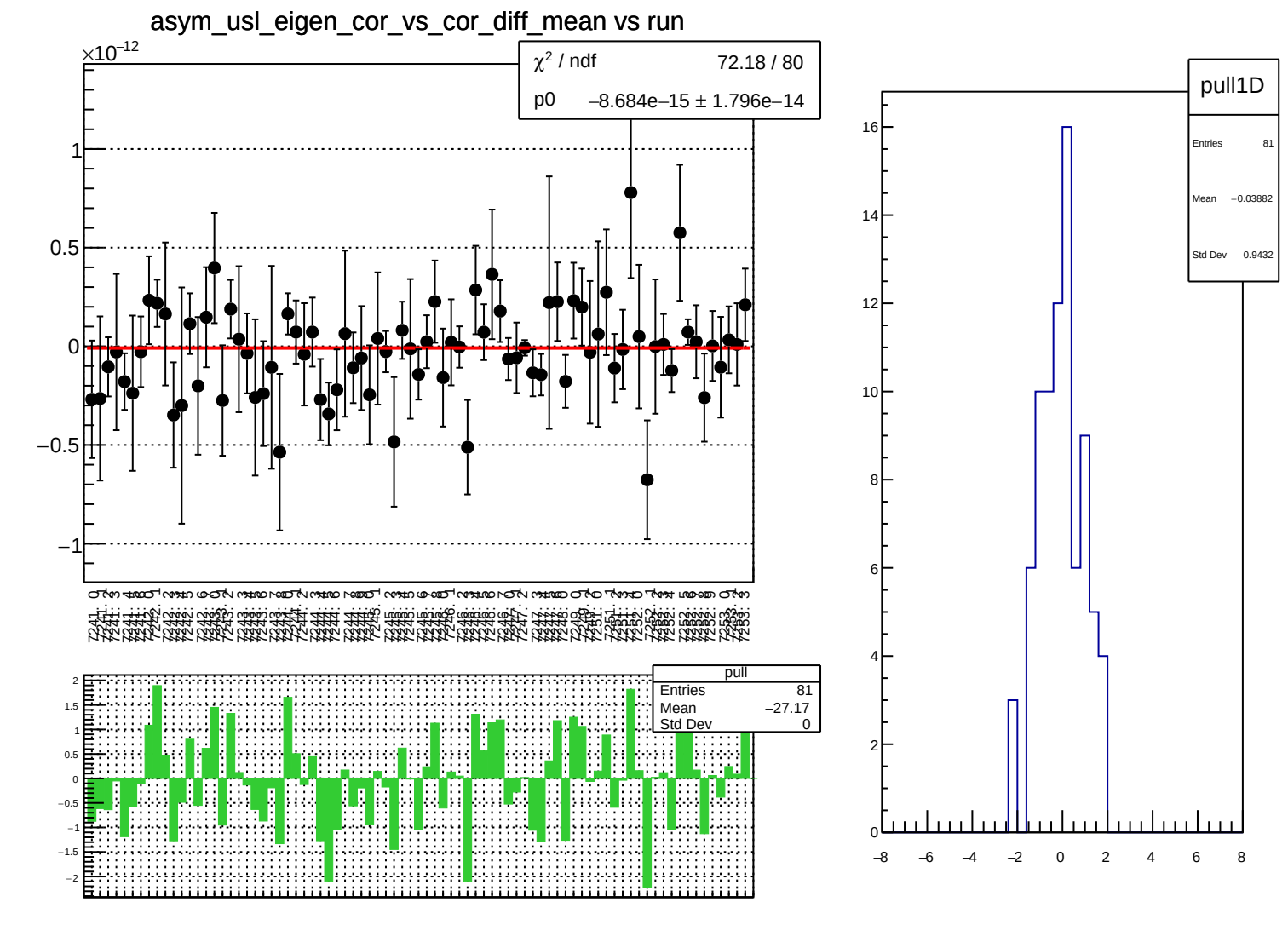

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.89 / 80
p0 0.005073 ± 0.04461
pull
Entries 81
Mean 148.9
Std Dev 0
pull1D
Entries 81
Mean 0.007006
Std Dev 1.048

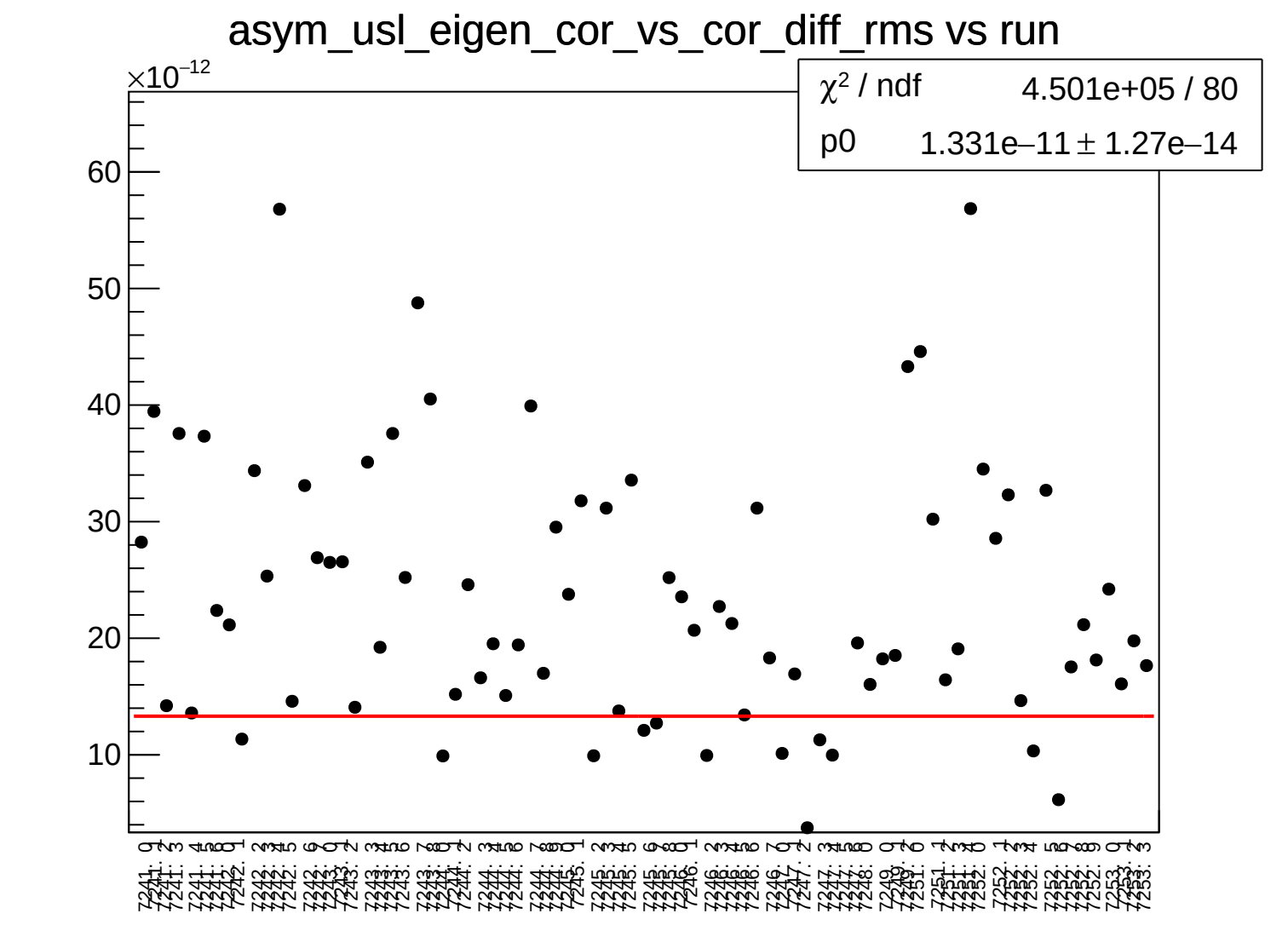

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.74e+05 / 80
p0 36.99 ± 0.03154
100
90
80
70
60
50
40
30
20
10

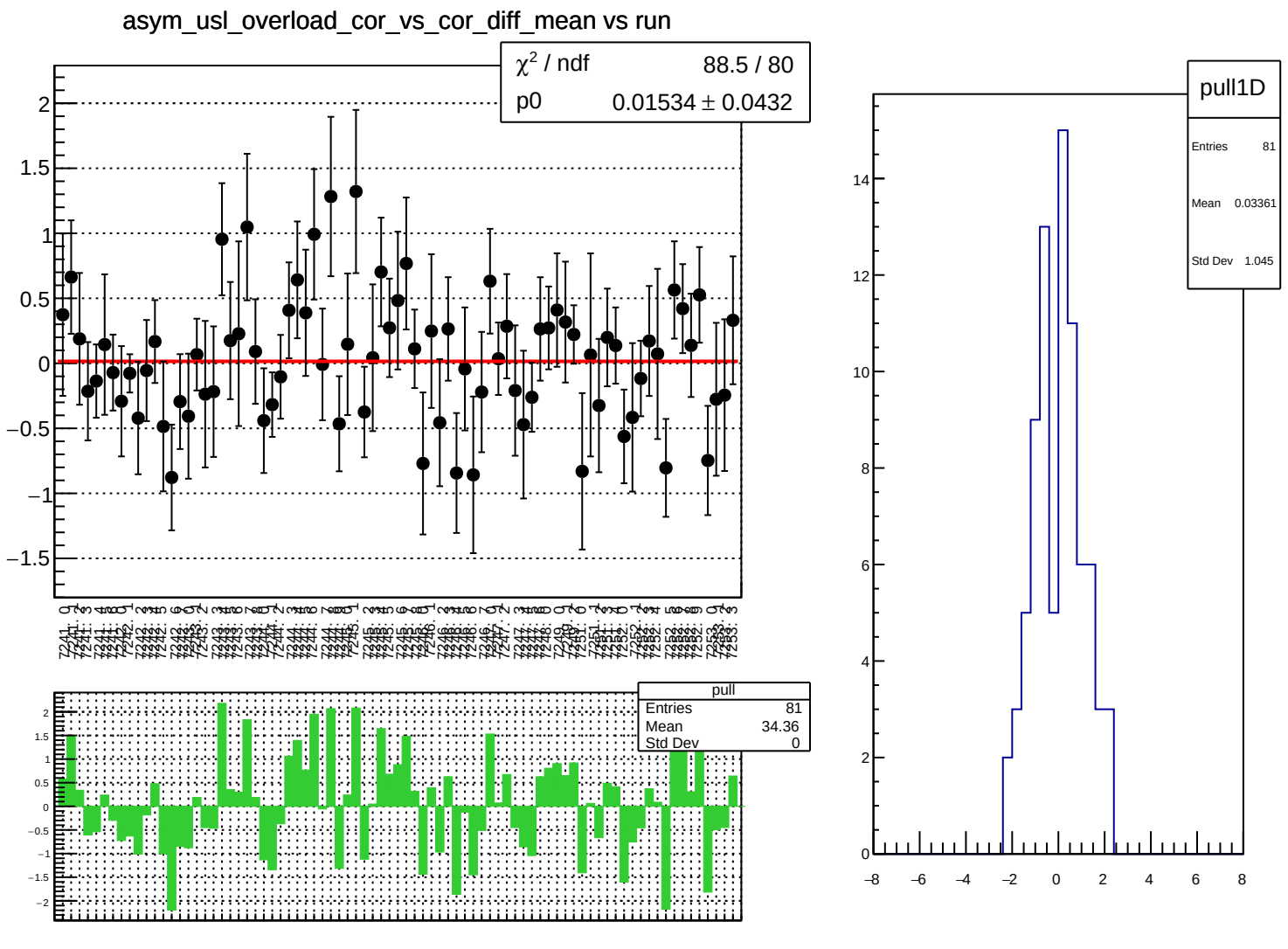

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 90.37 / 80
p0 −0.04933 ± 0.06867
pull
Entries 81
Mean 118.9
Std Dev 0

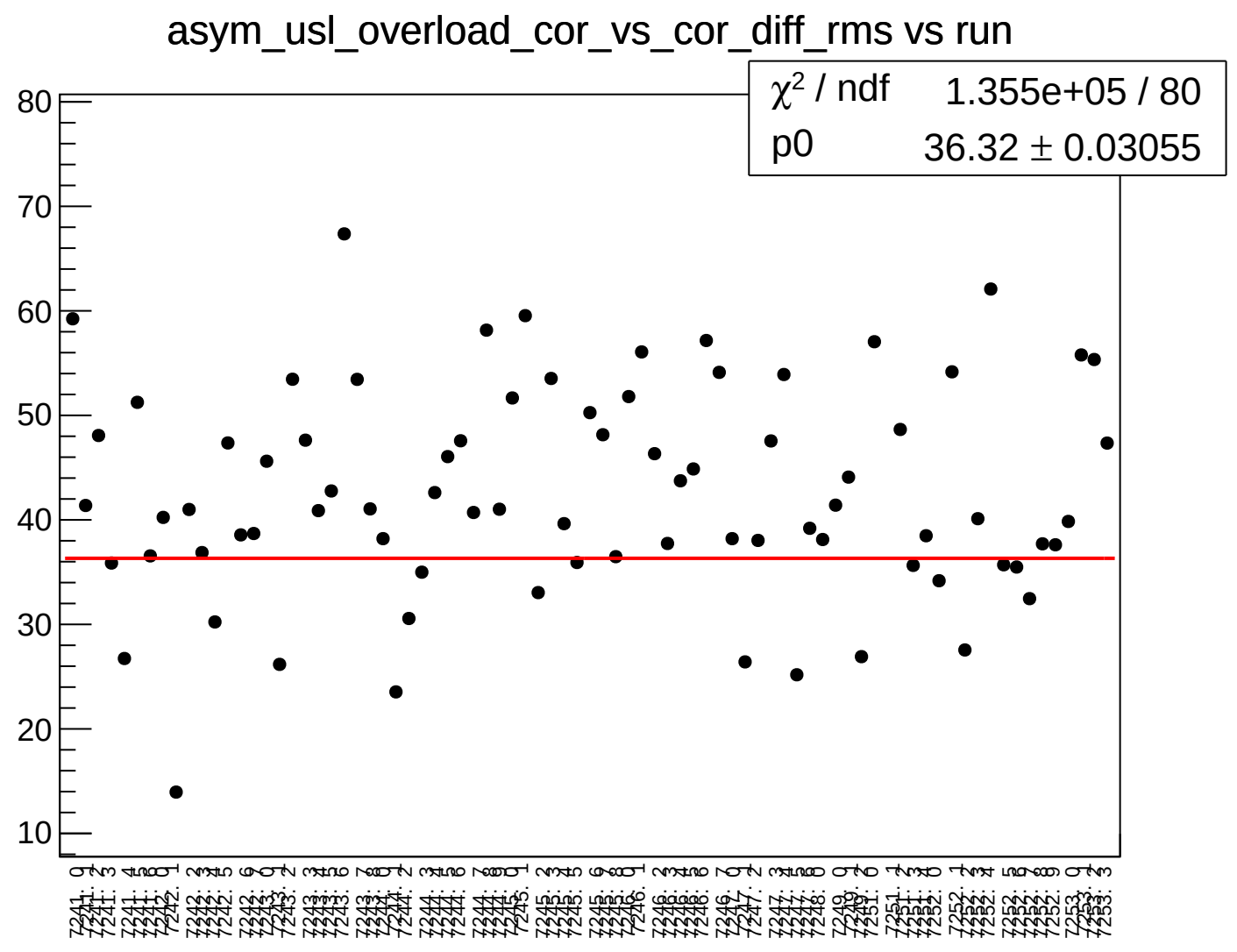

pull1D
Entries 81
Mean 0.01543
Std Dev 1.056

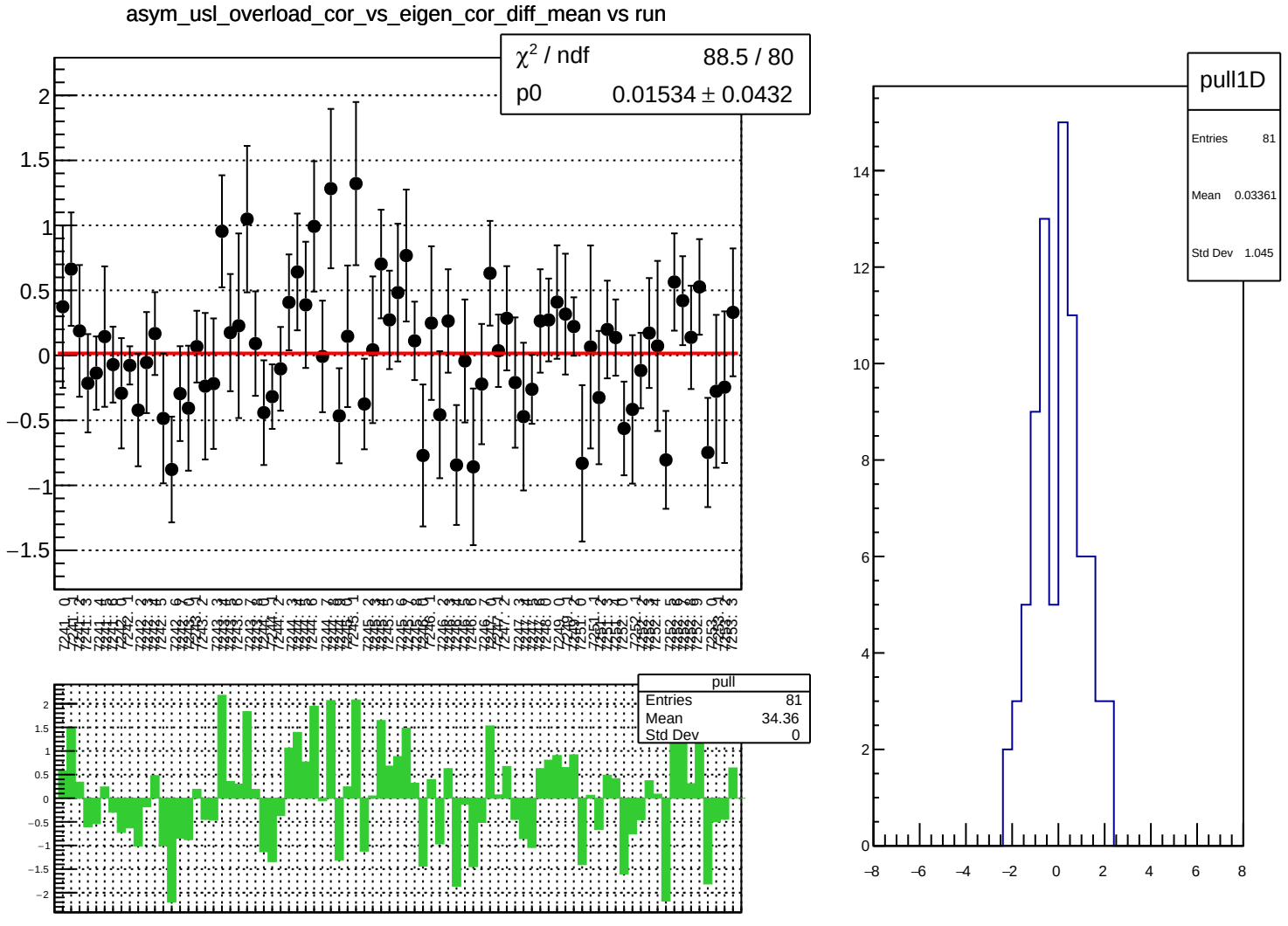

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 6.388e+04 / 80
p0 59.17 ± 0.04855
110
100
90
80
70
60
50
40
30

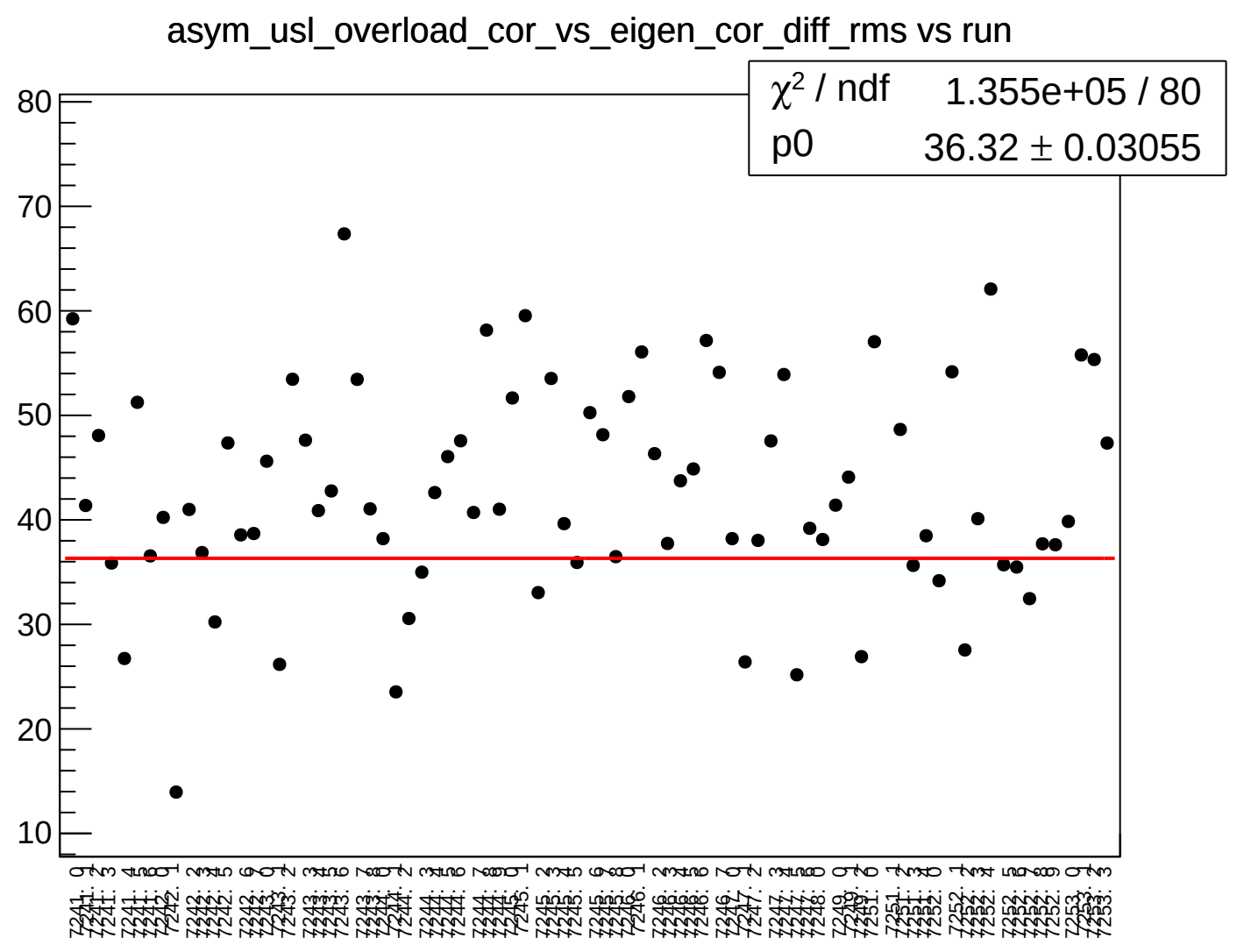

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.18 / 80
p0 −8.684e−15 ± 1.796e−14
pull
Entries 81
Mean −27.17
Std Dev 0
pull1D
Entries 81
Mean −0.03882
Std Dev 0.9432

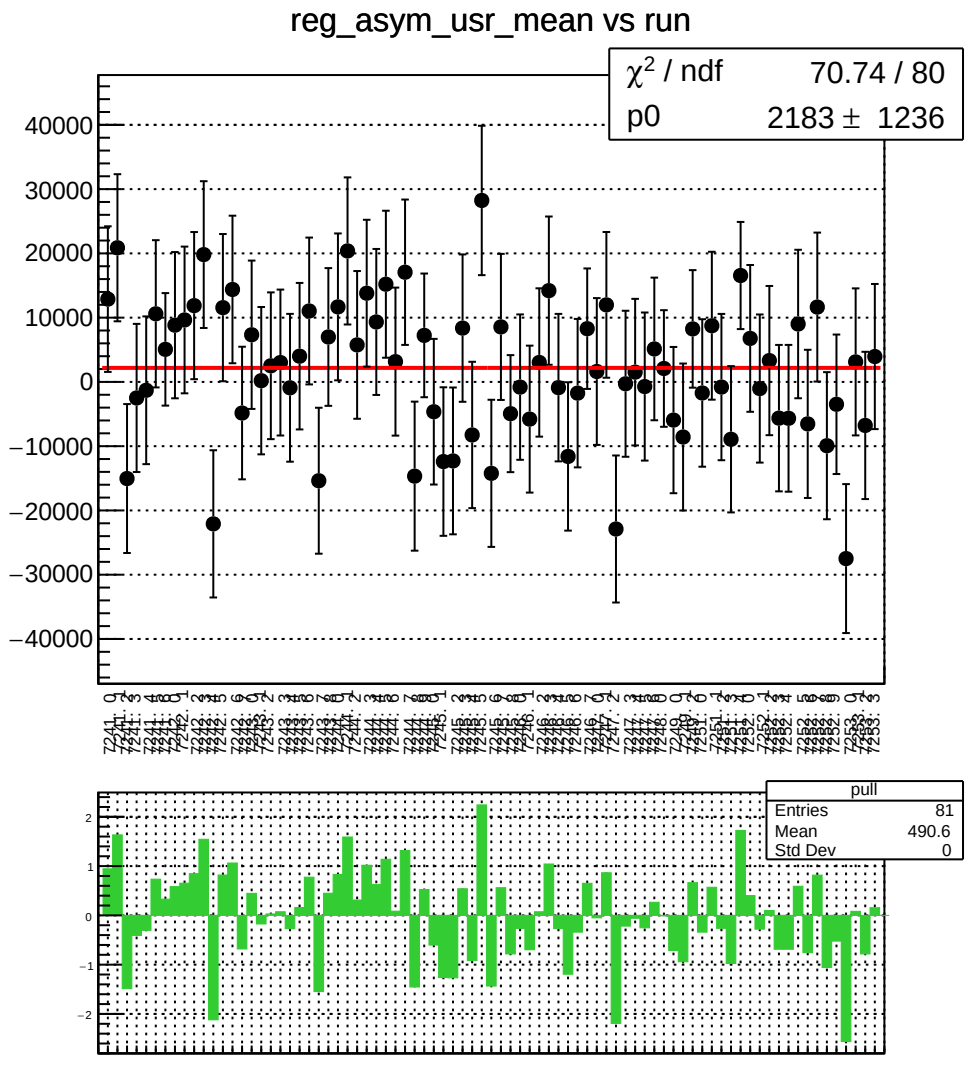

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.501e+05 / 80
p0 1.331e−11 ± 1.27e−14
60
50
40
30
20
10

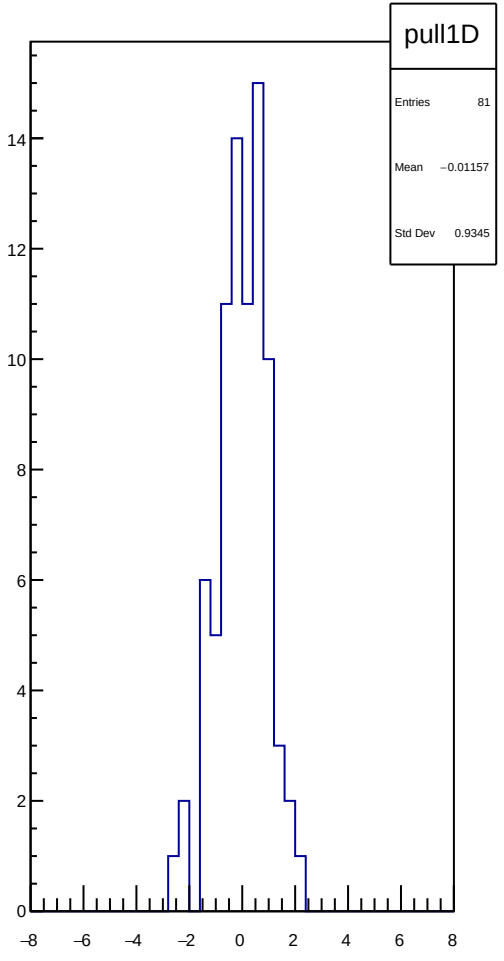

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 88.5 / 80
p0 0.01534 ± 0.0432
pull
Entries 81
Mean 34.36
Std Dev 0
pull1D
Entries 81
Mean 0.03361
Std Dev 1.045

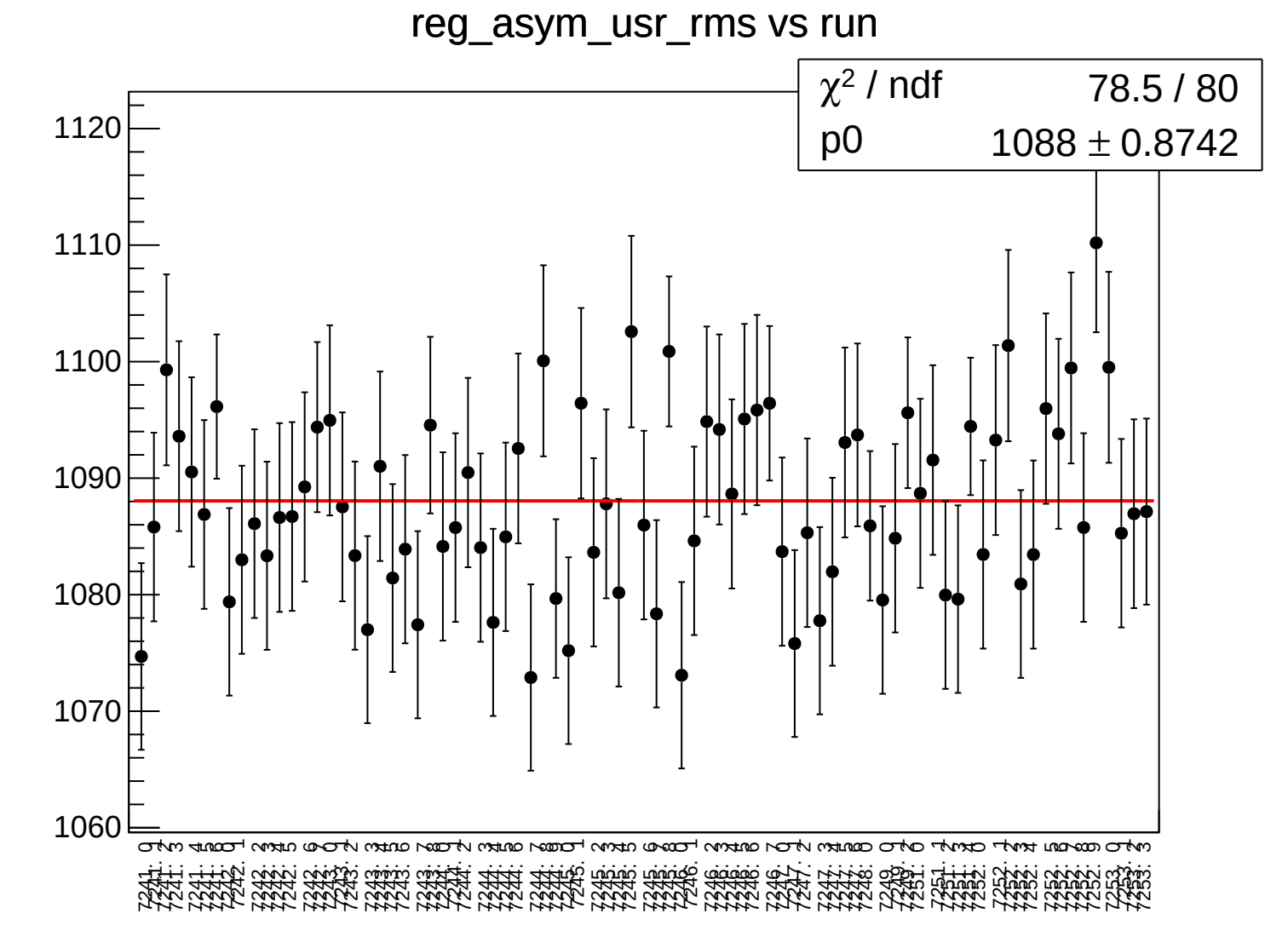

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.355e+05 / 80
p0 36.32 ± 0.03055
80
70
60
50
40
30
20
10

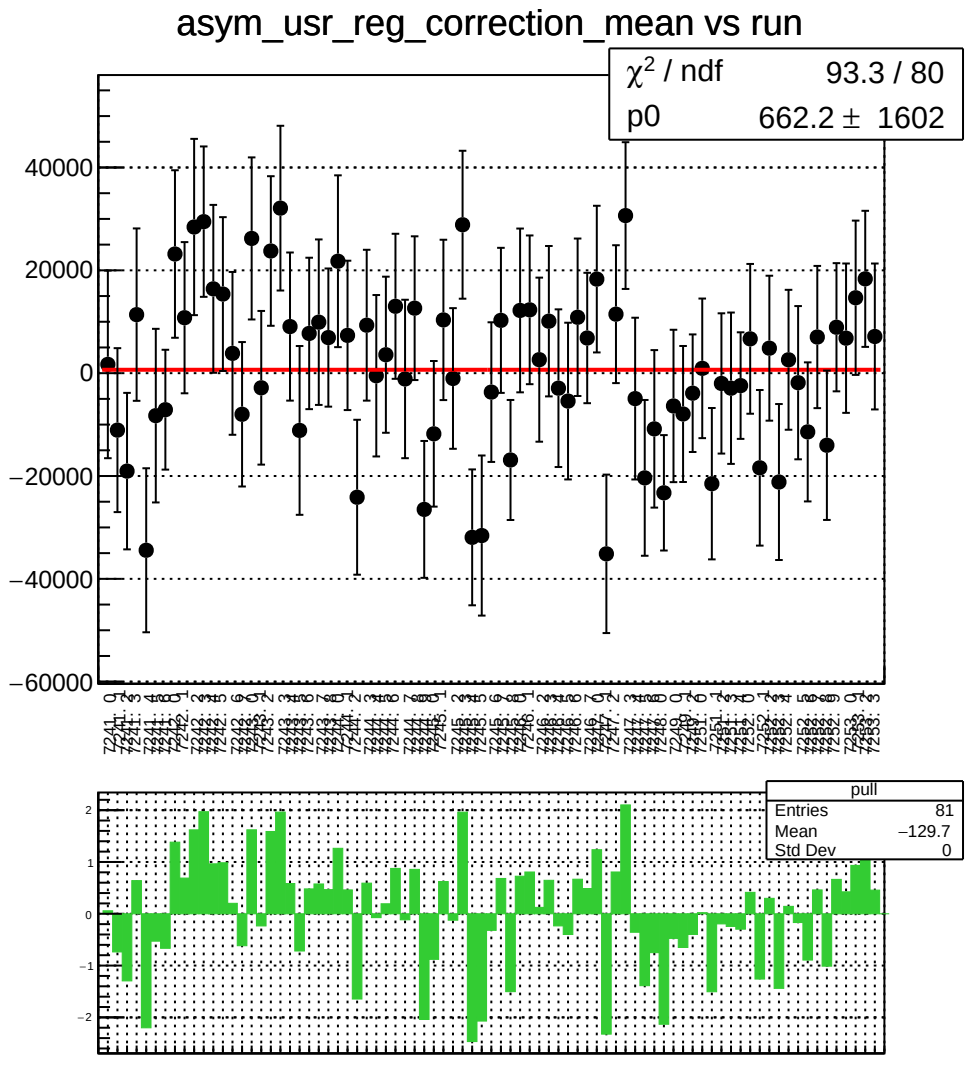

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.5 / 80
p0 0.01534 ± 0.0432
pull
Entries 81
Mean 34.36
Std Dev 0
pull1D
Entries 81
Mean 0.03361
Std Dev 1.045

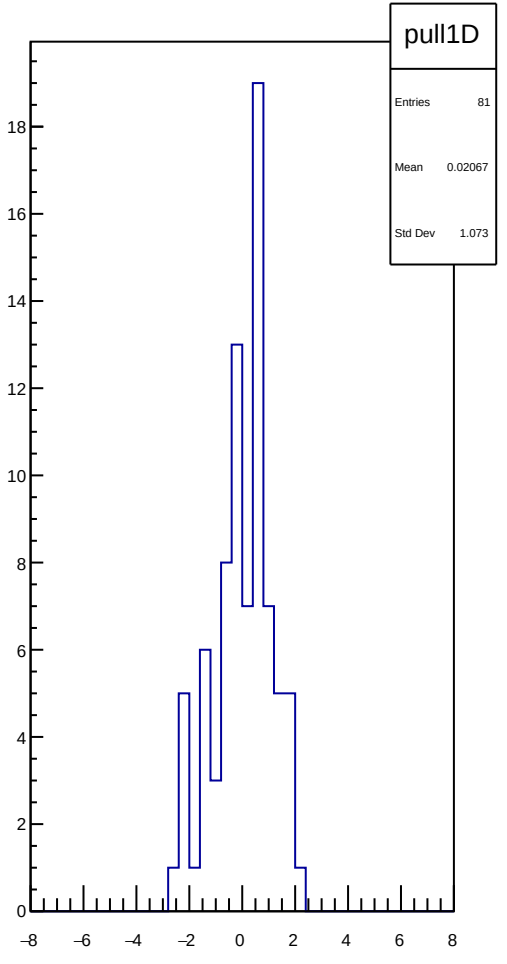

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.355e+05 / 80
p0 36.32 ± 0.03055
80
70
60
50
40
30
20
10

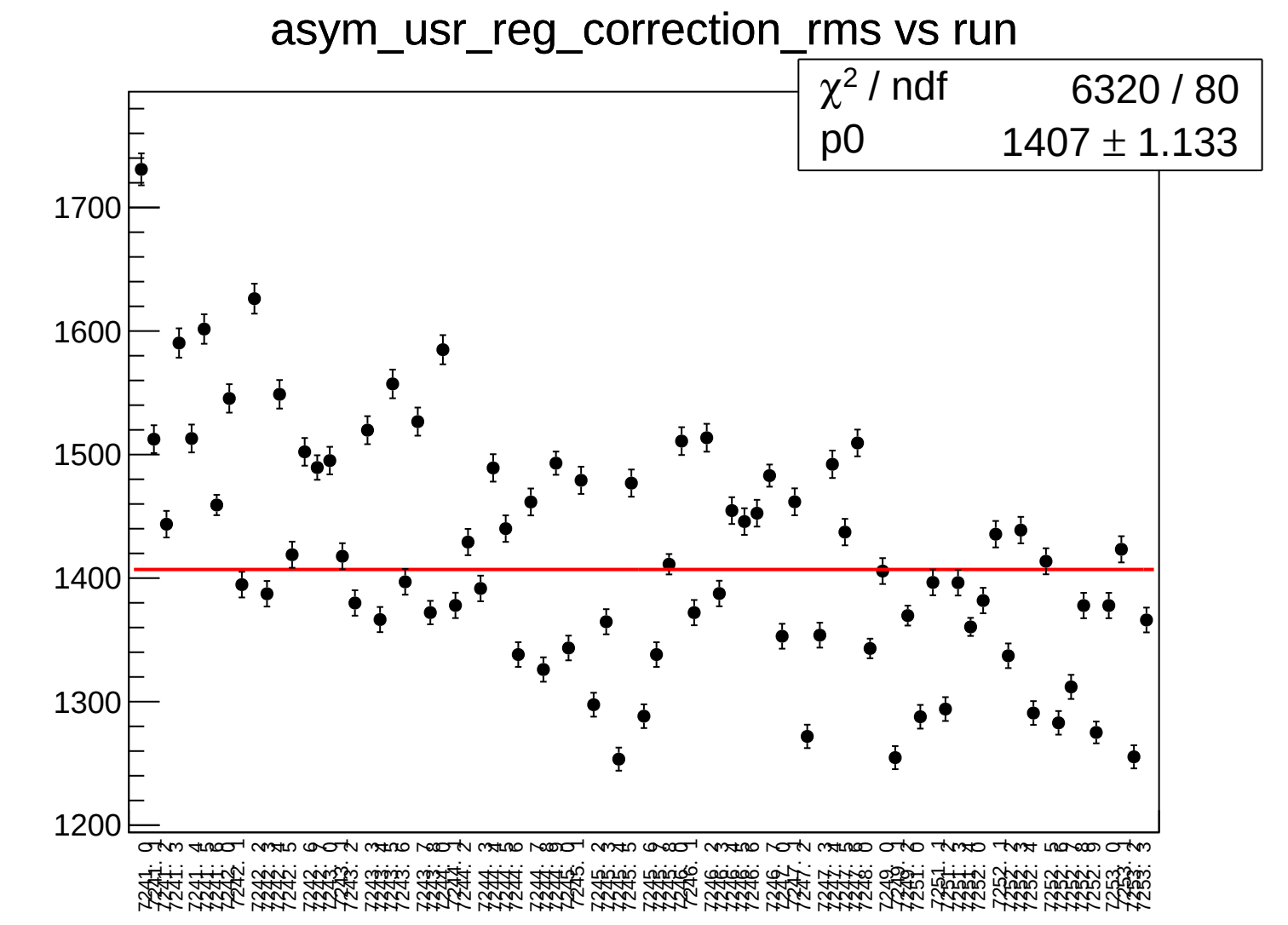

reg_asym_usr_mean vs run
χ^2 / ndf 70.74 / 80
p0 2183 ± 1236
pull
Entries 81
Mean 490.6
Std Dev 0

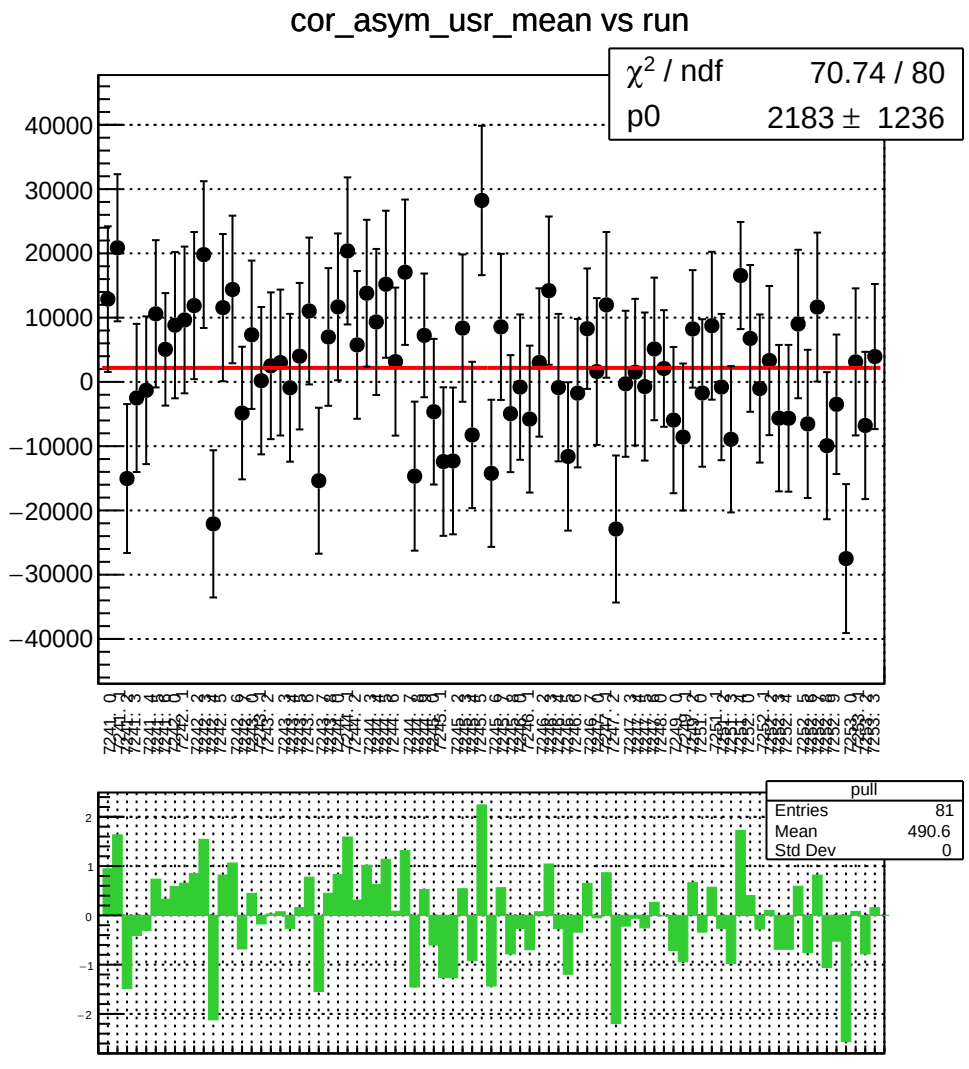

pull1D
Entries 81
Mean −0.01157
Std Dev 0.9345

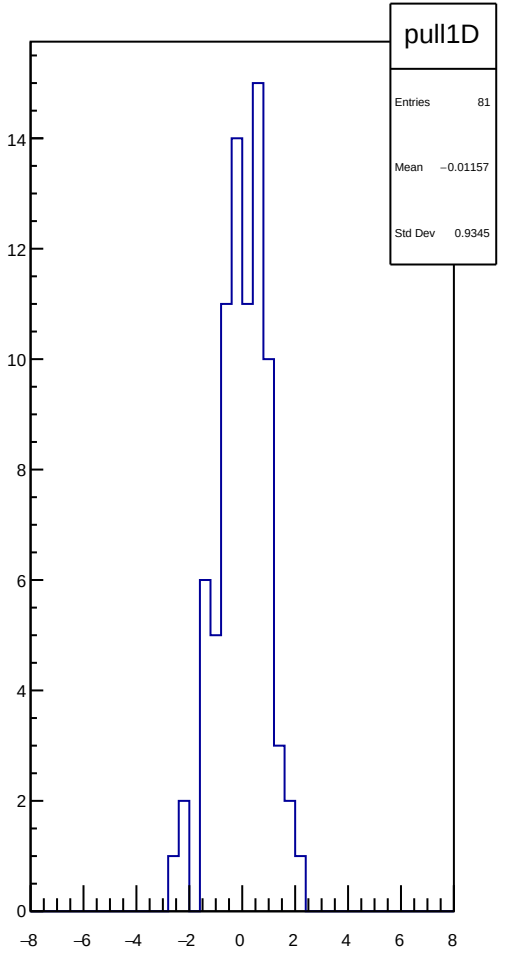

reg_asym_usr_rms vs run
χ² / ndf 78.5 / 80
p0 1088 ± 0.8742
1120
1110
1100
1090
1080
1070
1060

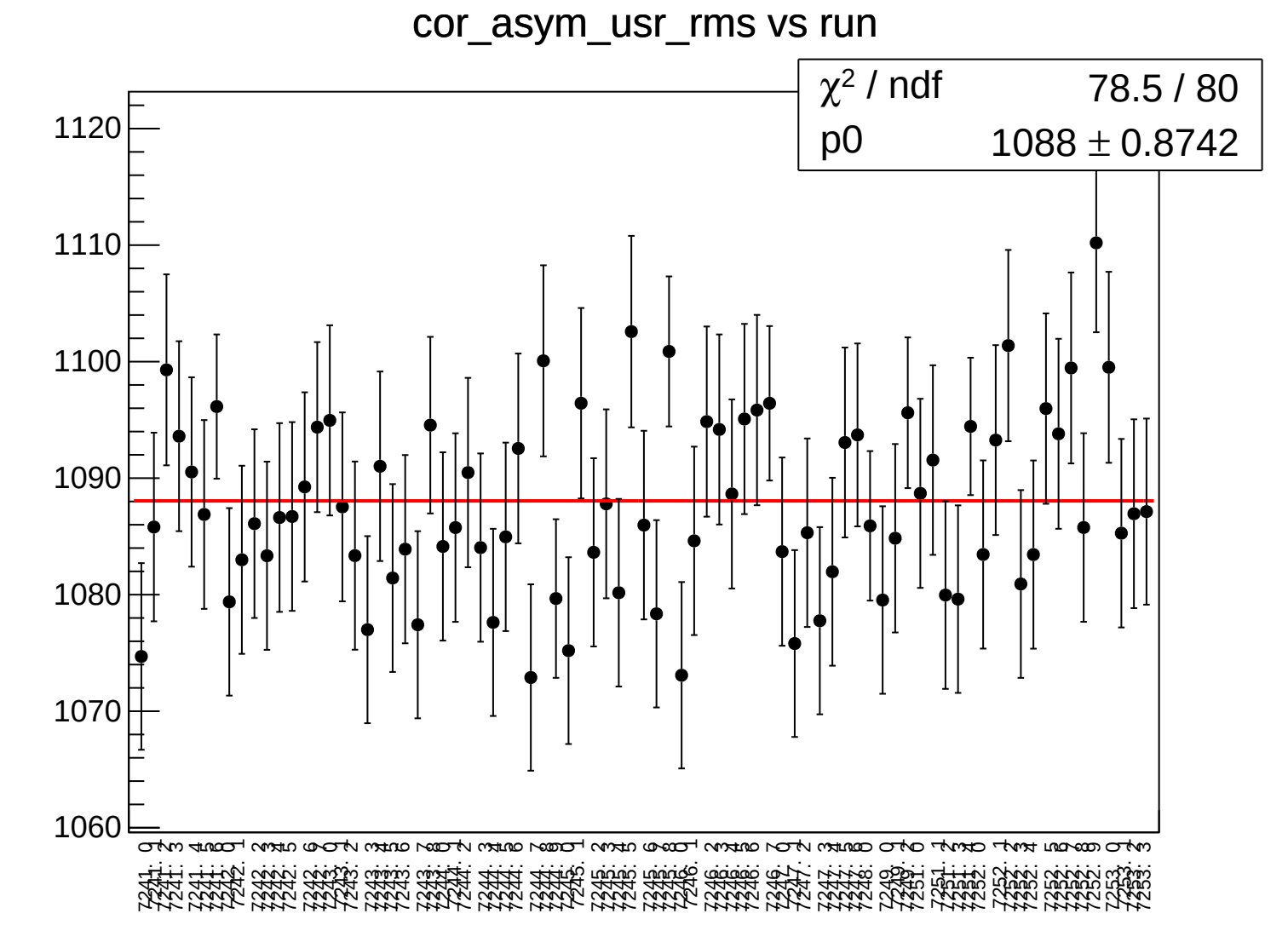

asym_usr_reg_correction_mean vs run
χ² / ndf 93.3 / 80
p0 662.2 ± 1602
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −129.7
Std Dev 0
2
1
0
−1
−2

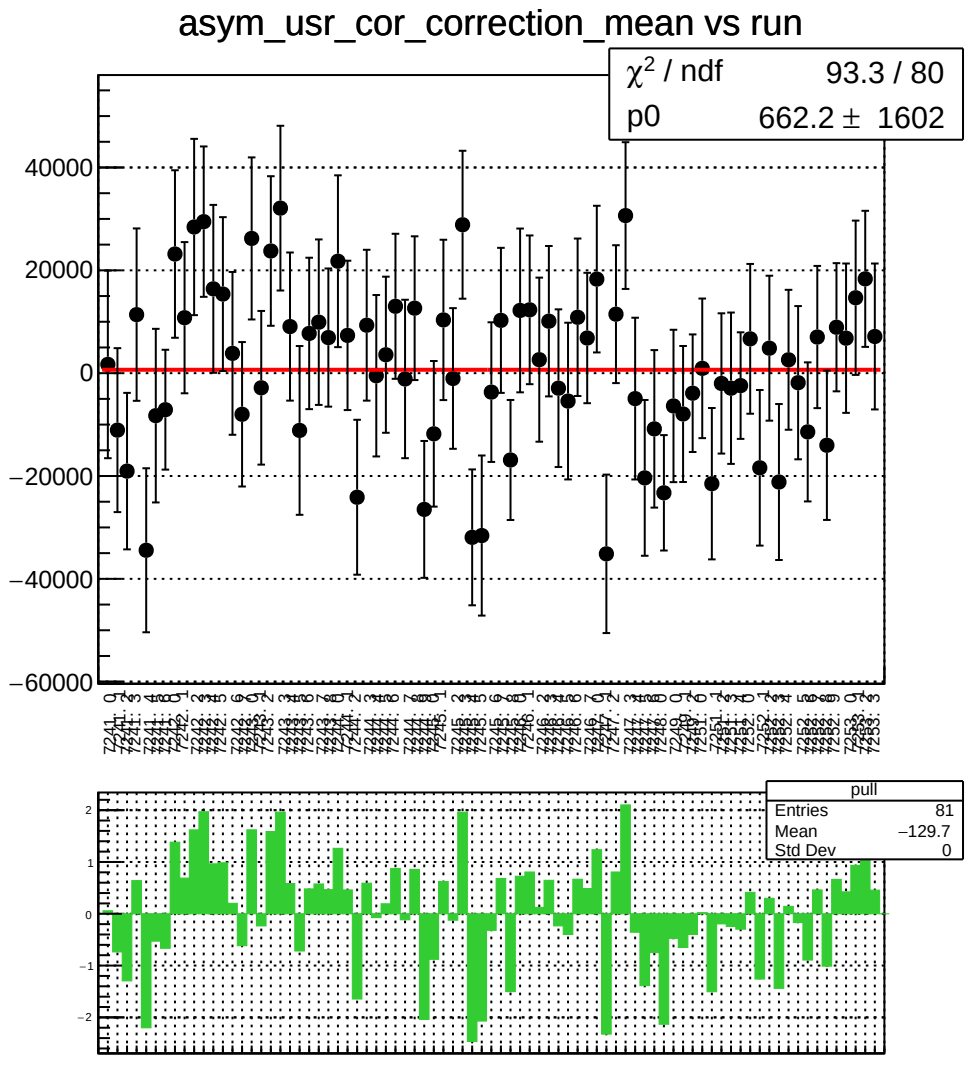

pull1D
Entries 81
Mean 0.02067
Std Dev 1.073
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

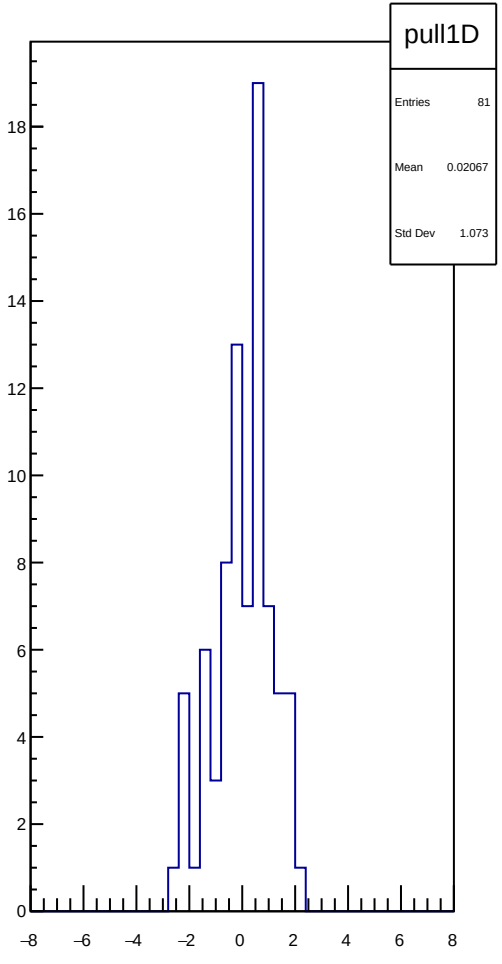

asym_usr_reg_correction_rms vs run
χ² / ndf 6320 / 80
p0 1407 ± 1.133
1700
1600
1500
1400
1300
1200

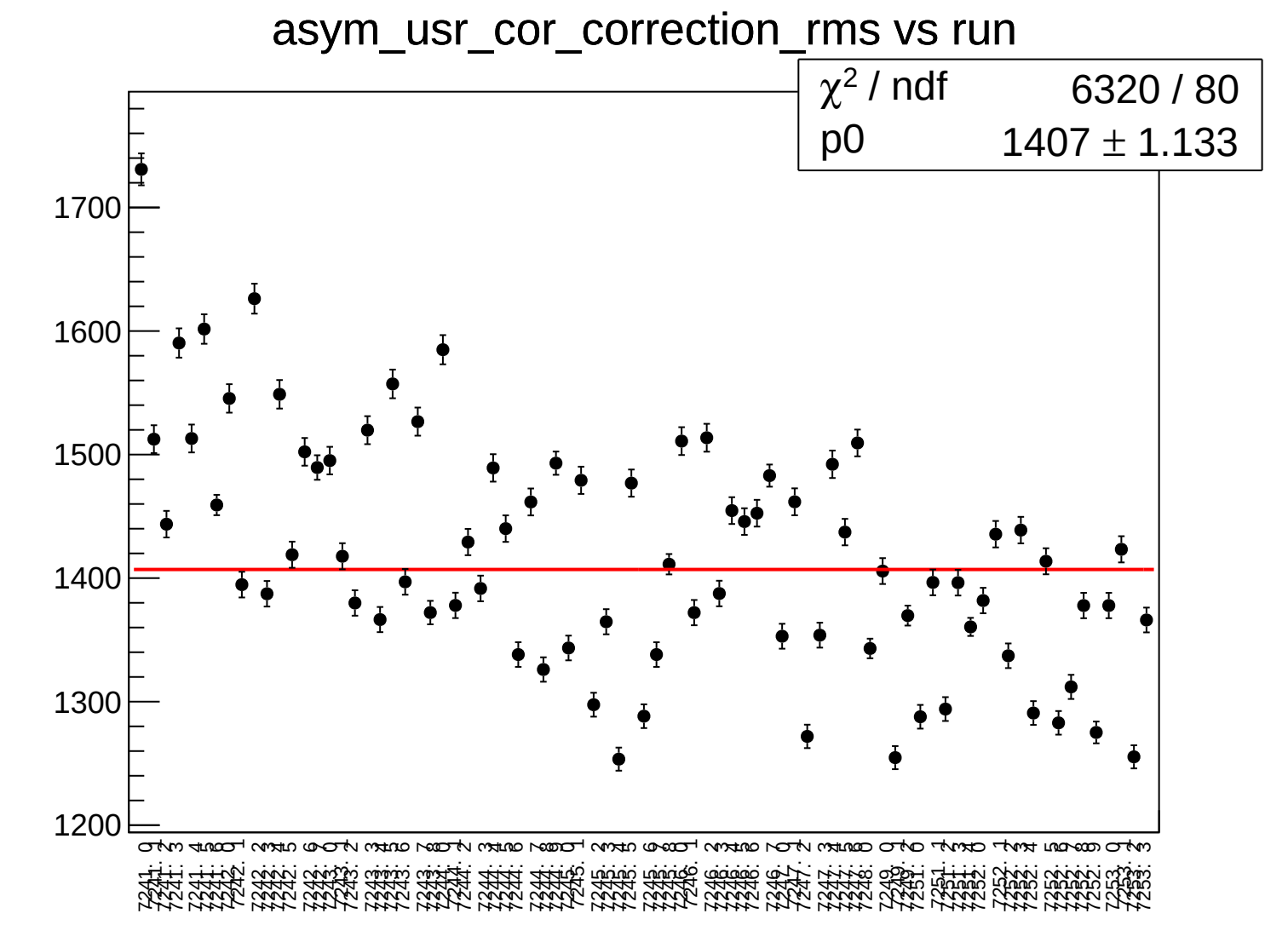

cor_asym_usr_mean vs run
χ² / ndf 70.74 / 80
p0 2183 ± 1236
pull
Entries 81
Mean 490.6
Std Dev 0

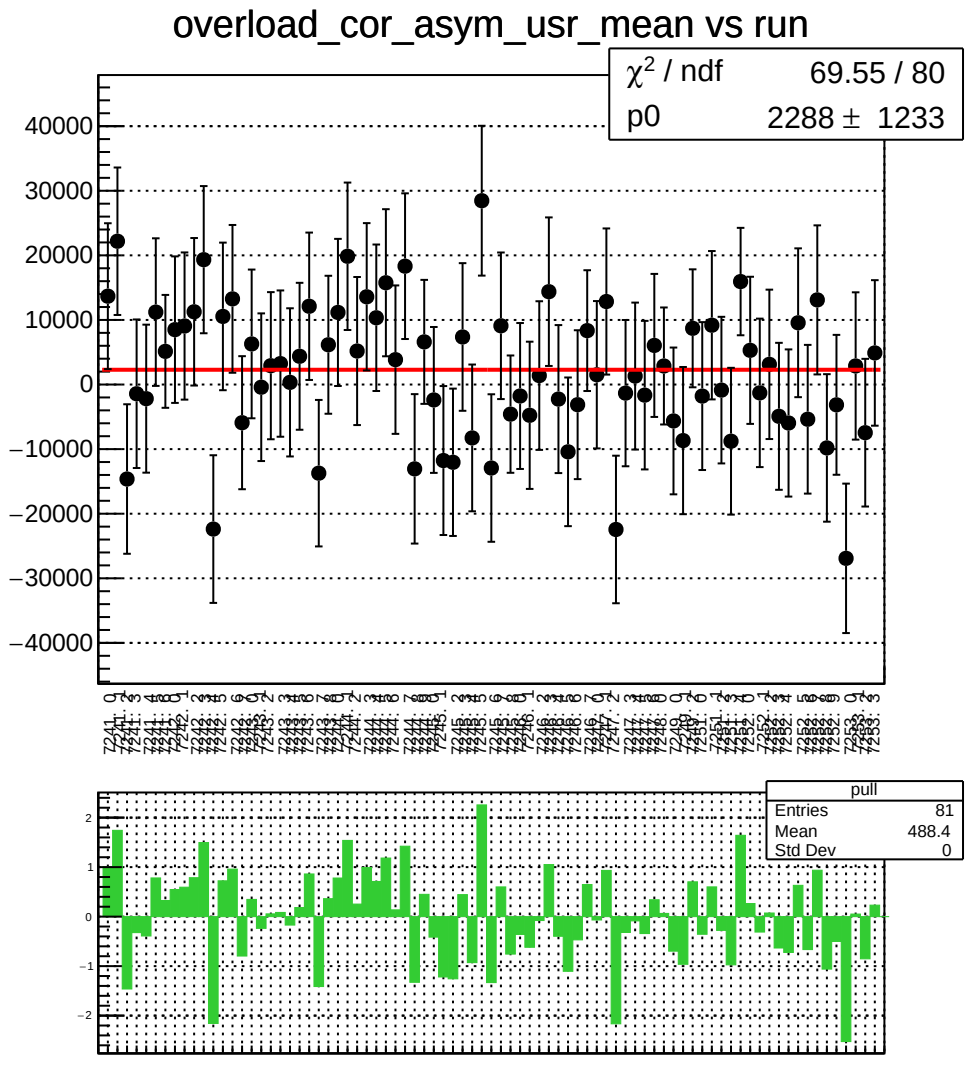

pull1D
Entries 81
Mean −0.01157
Std Dev 0.9345

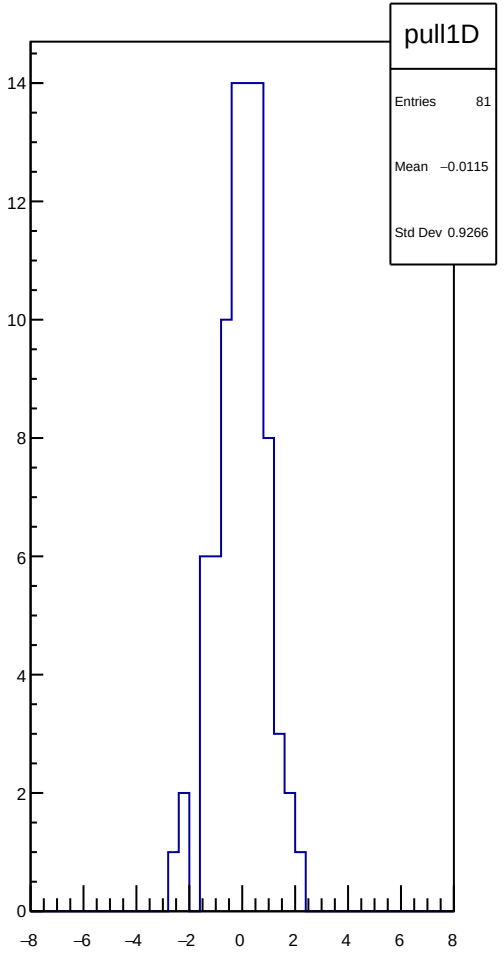

cor_asym_usr_rms vs run
χ² / ndf 78.5 / 80
p0 1088 ± 0.8742
1120
1110
1100
1090
1080
1070
1060

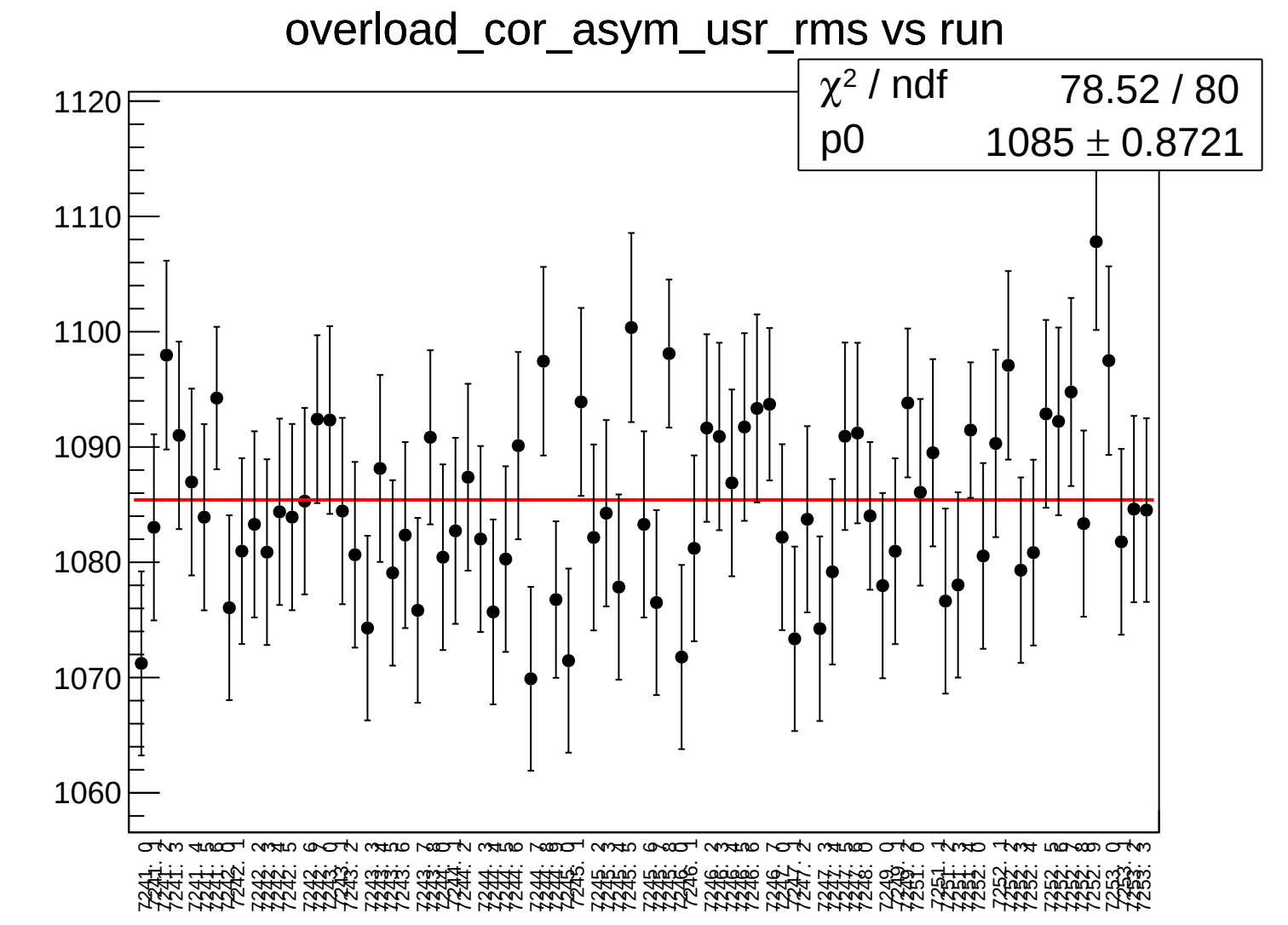

asym_usr_cor_correction_mean vs run
χ² / ndf 93.3 / 80
p0 662.2 ± 1602
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −129.7
Std Dev 0
2
1
0
−1
−2

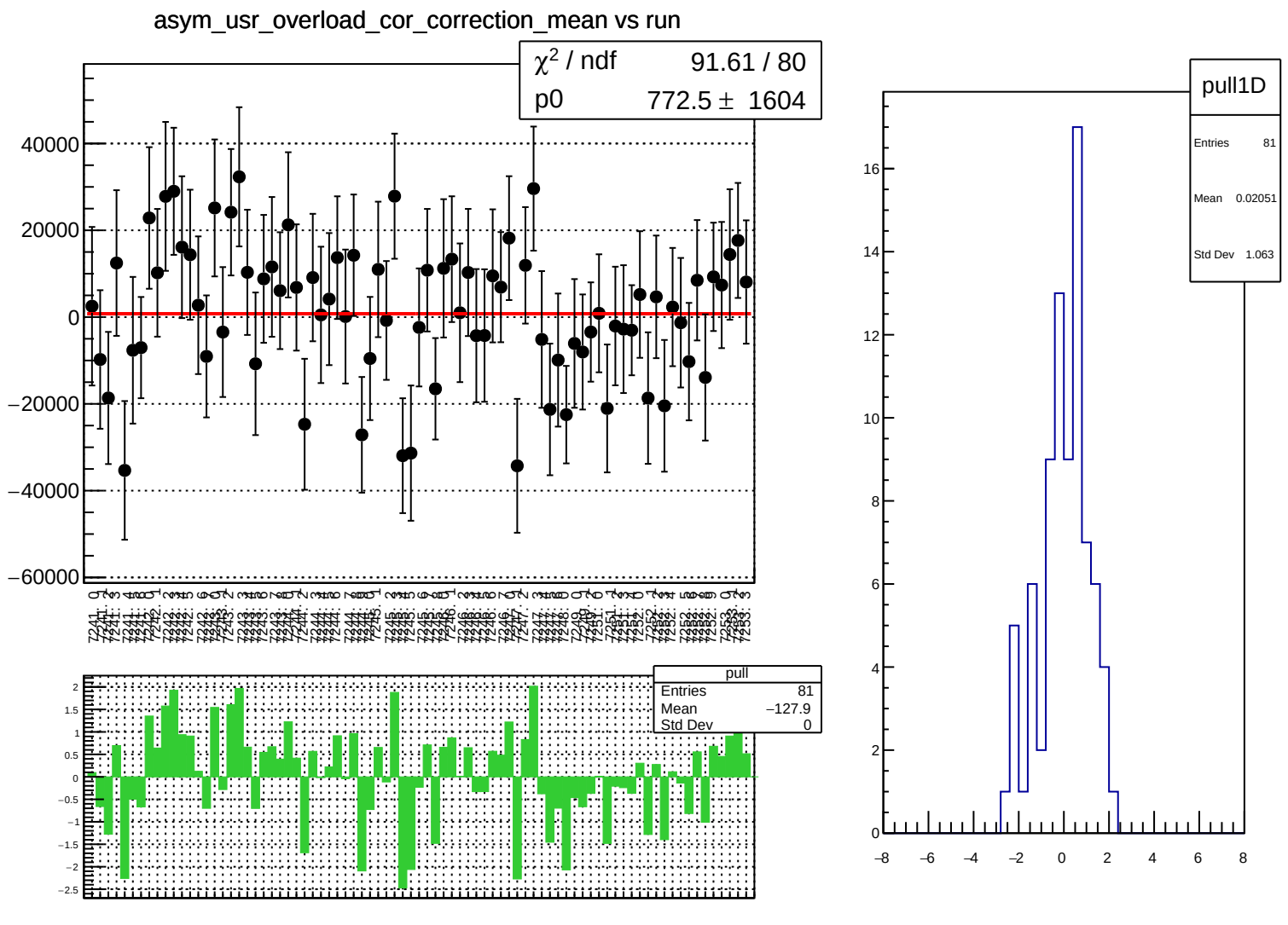

pull1D
Entries 81
Mean 0.02067
Std Dev 1.073
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

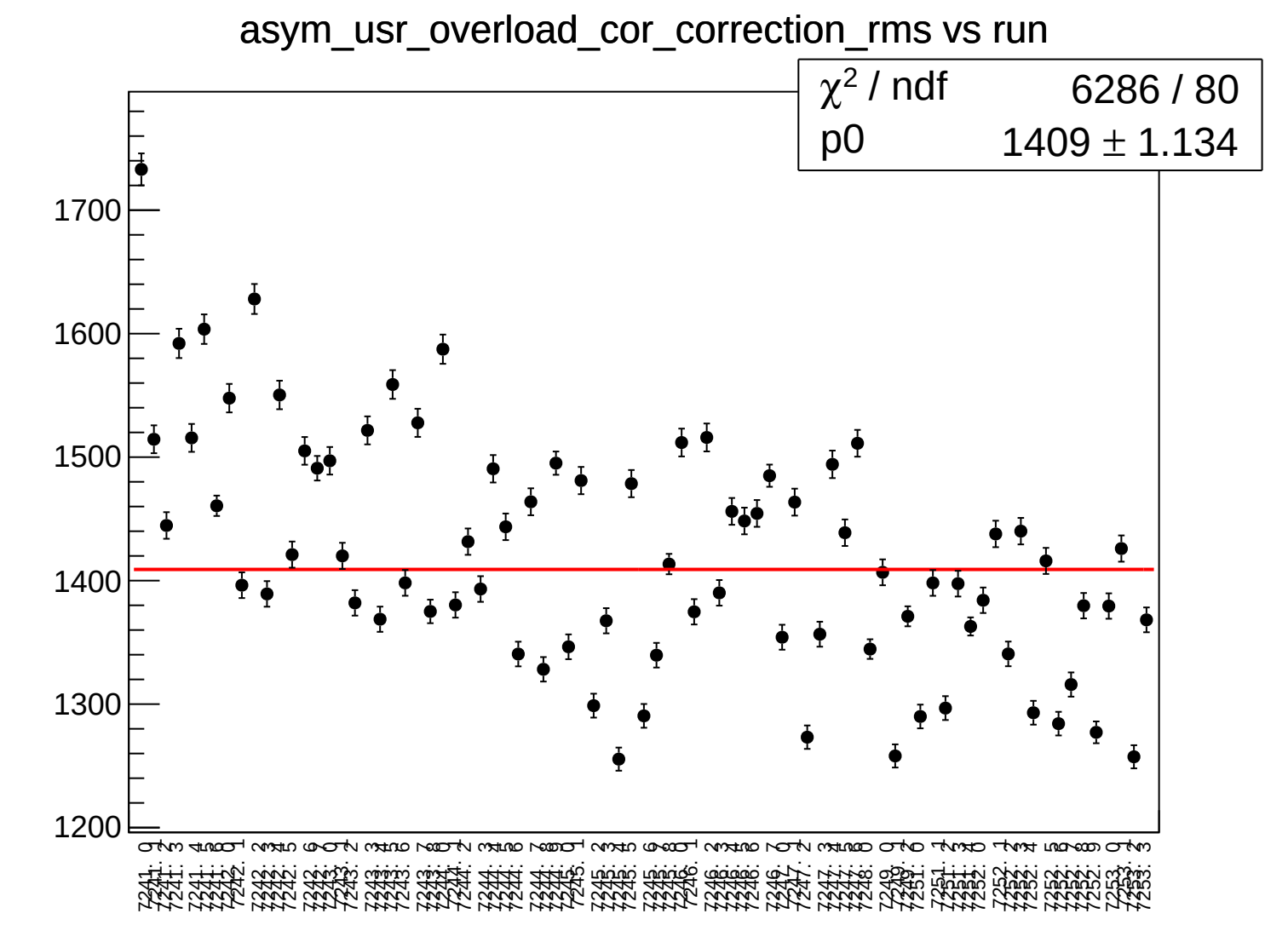

asym_usr_cor_correction_rms vs run
χ² / ndf 6320 / 80
p0 1407 ± 1.133
1700
1600
1500
1400
1300
1200

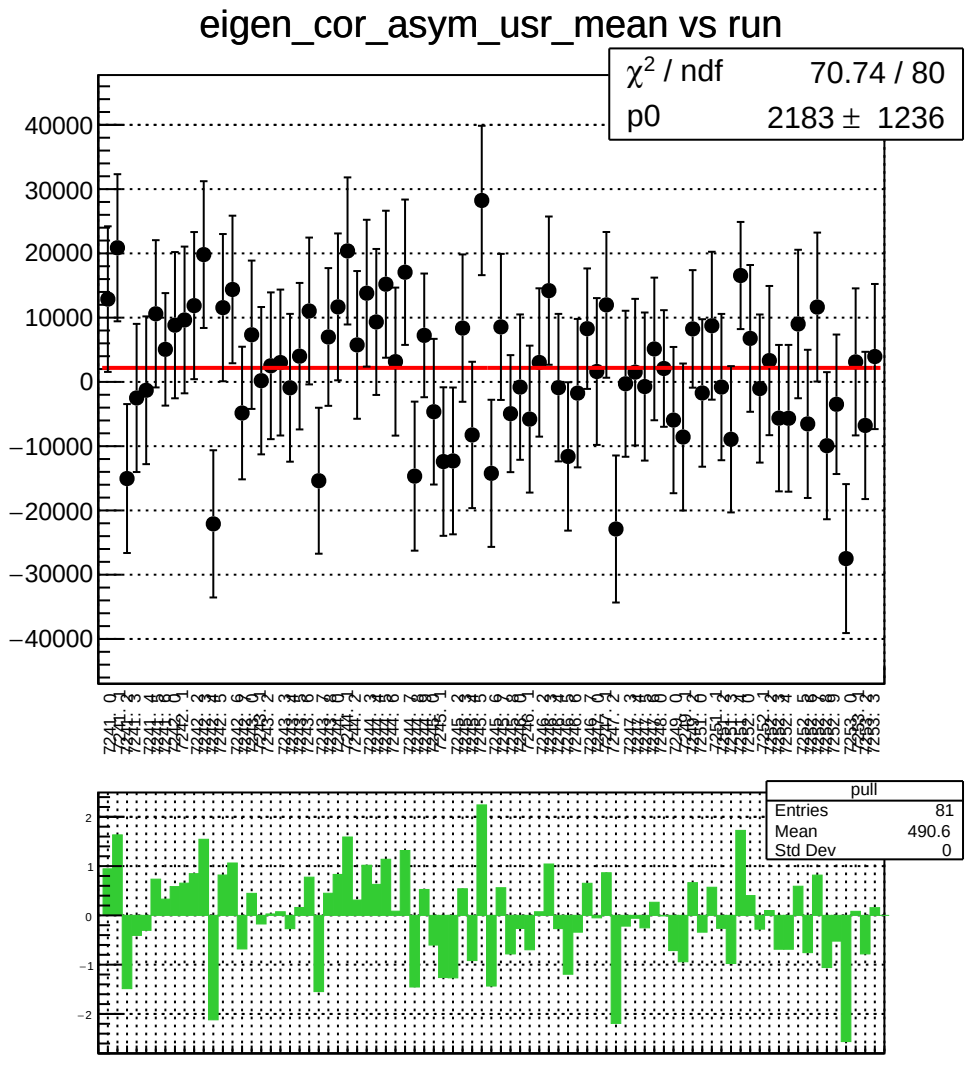

overload_cor_asym_usr_mean vs run
χ² / ndf 69.55 / 80
p0 2288 ± 1233
pull
Entries 81
Mean 488.4
Std Dev 0

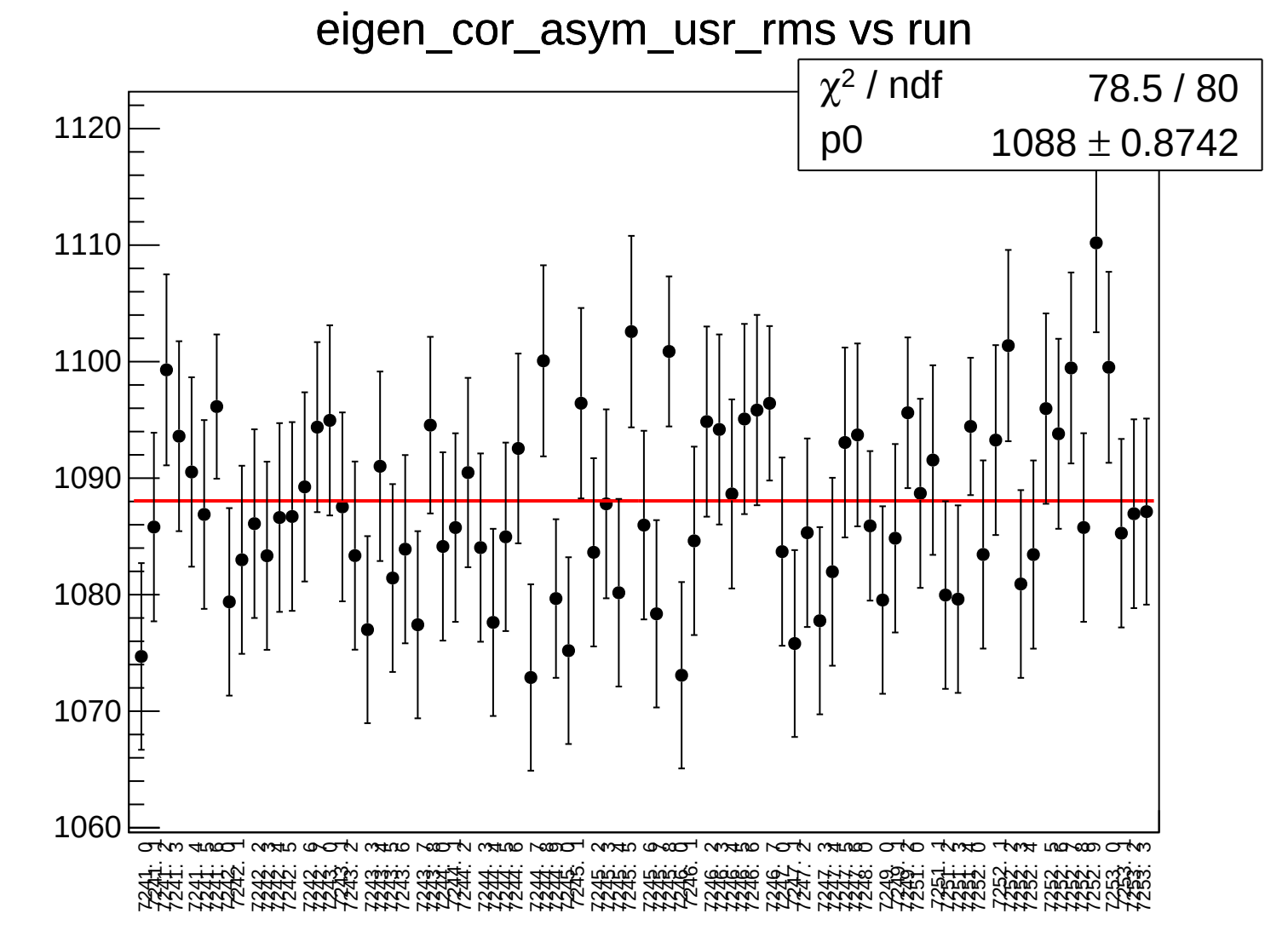

pull1D
Entries 81
Mean −0.0115
Std Dev 0.9266

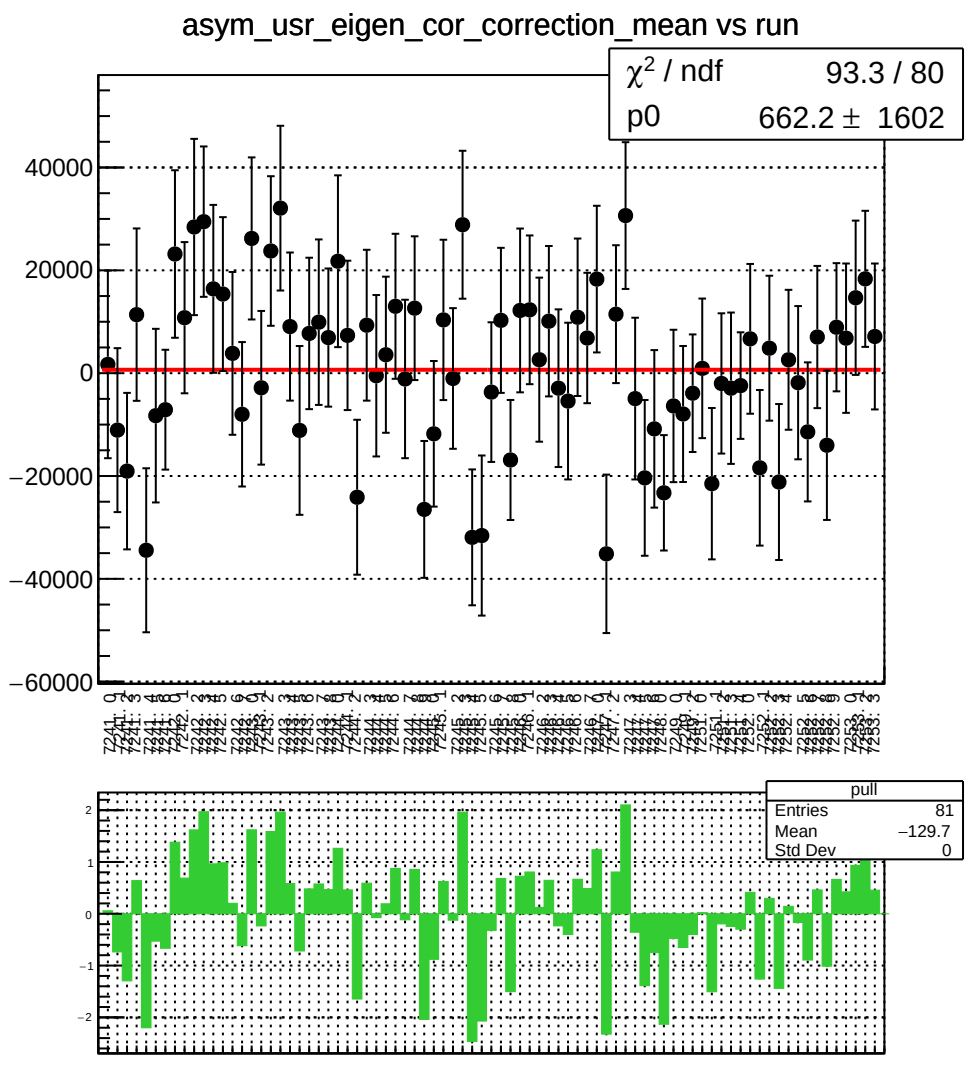

overload_cor_asym_usr_rms vs run
χ² / ndf 78.52 / 80
p0 1085 ± 0.8721
1120
1110
1100
1090
1080
1070
1060

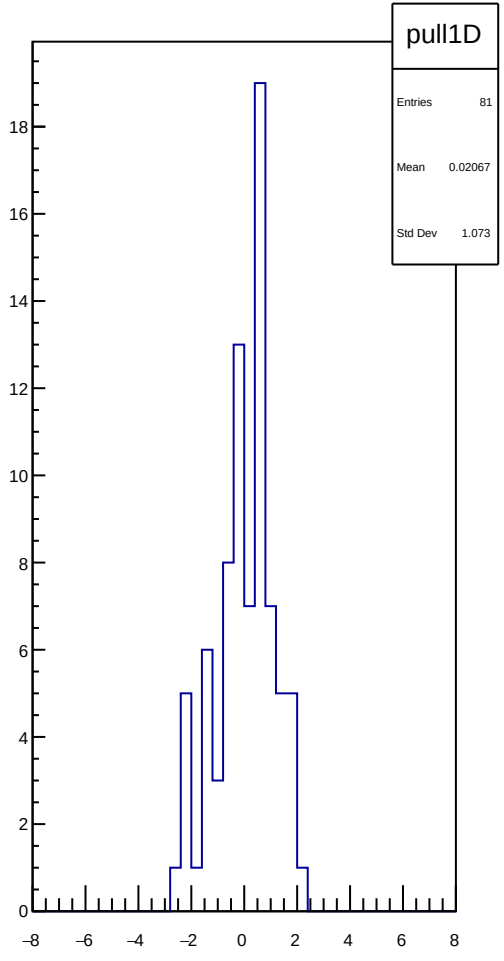

asym_usr_overload_cor_correction_mean vs run
χ² / ndf 91.61 / 80
p0 772.5 ± 1604
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −127.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 81
Mean 0.02051
Std Dev 1.063
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

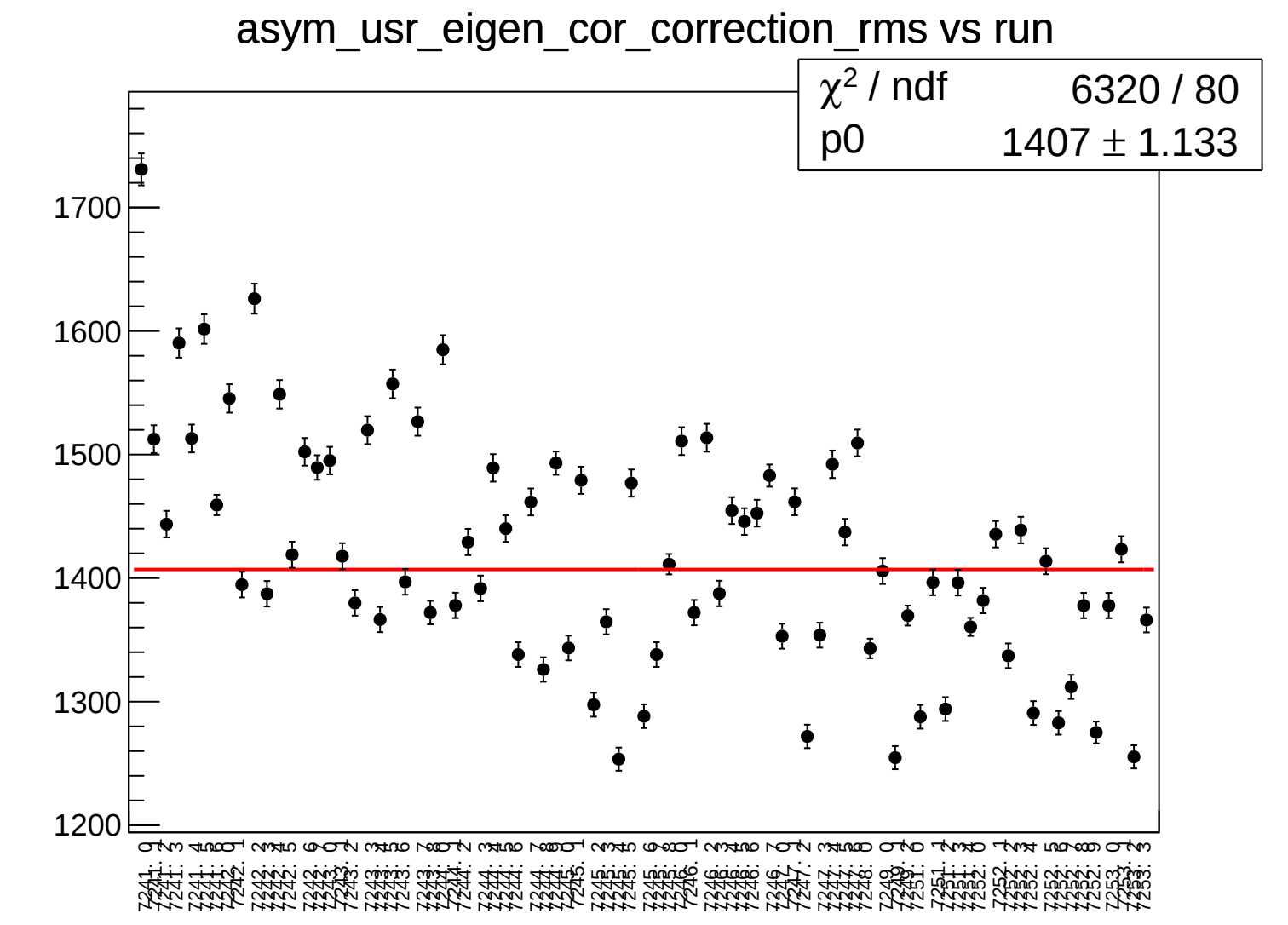

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 6286 / 80
p0 1409 ± 1.134
1700
1600
1500
1400
1300
1200

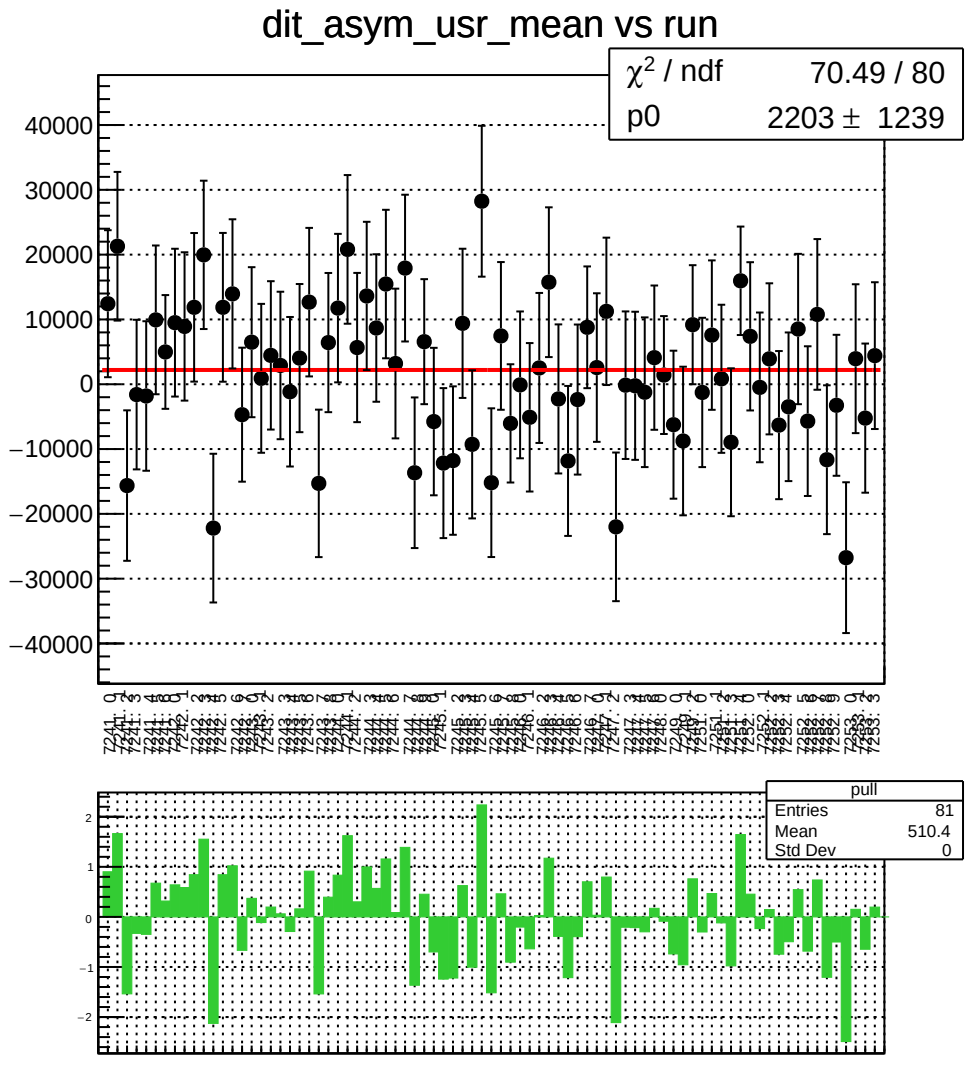

eigen_cor_asym_usr_mean vs run
χ² / ndf 70.74 / 80
p0 2183 ± 1236
pull
Entries 81
Mean 490.6
Std Dev 0
pull1D
Entries 81
Mean −0.01157
Std Dev 0.9345

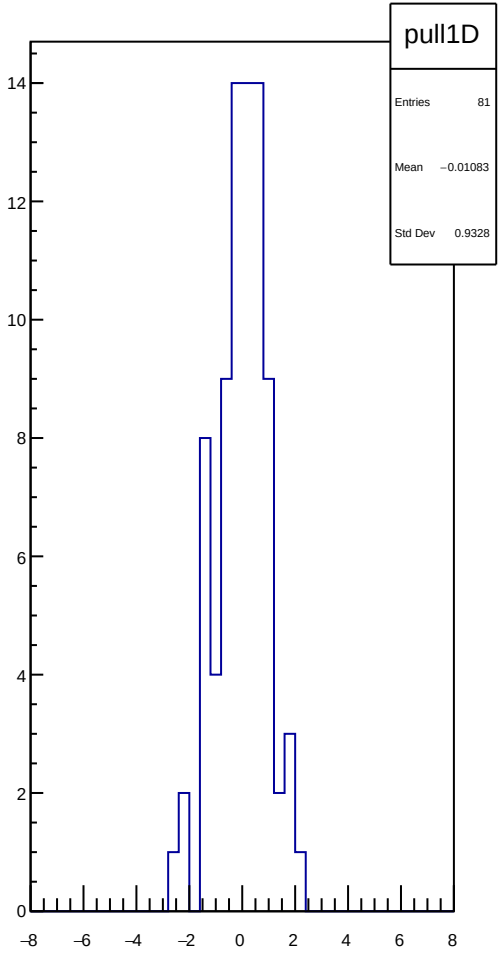

eigen_cor_asym_usr_rms vs run
χ² / ndf 78.5 / 80
p0 1088 ± 0.8742
1120
1110
1100
1090
1080
1070
1060

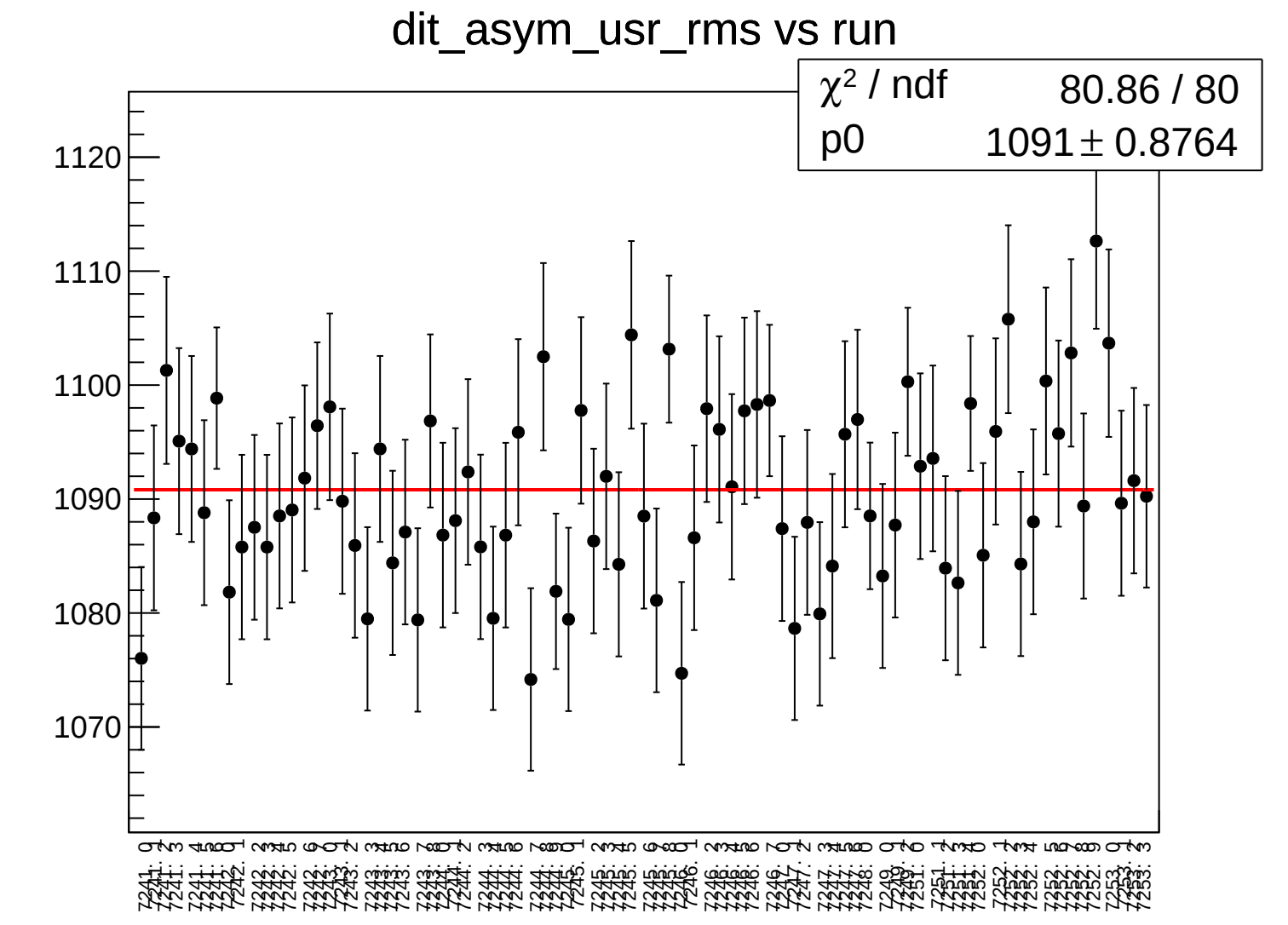

asym_usr_eigen_cor_correction_mean vs run
χ² / ndf 93.3 / 80
p0 662.2 ± 1602
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −129.7
Std Dev 0
2
1
0
−1
−2

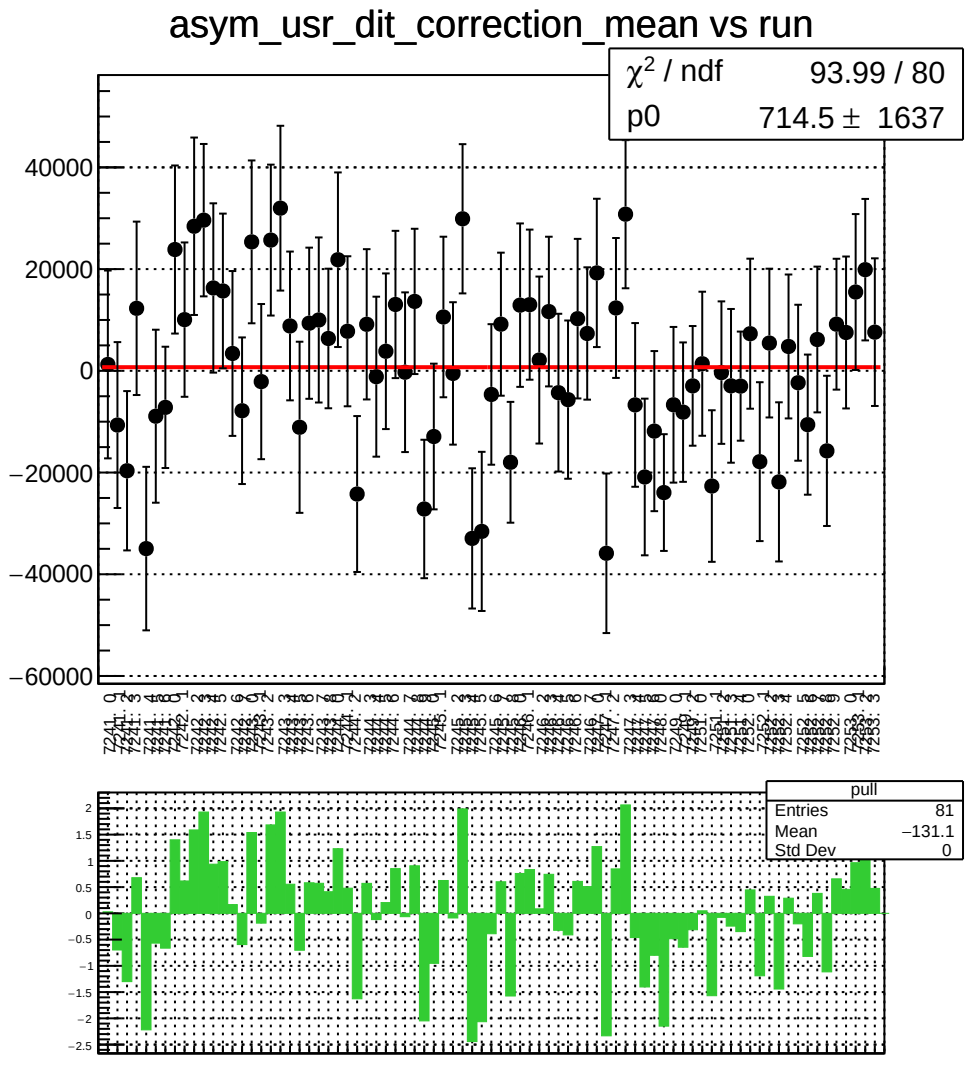

pull1D
Entries 81
Mean 0.02067
Std Dev 1.073
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

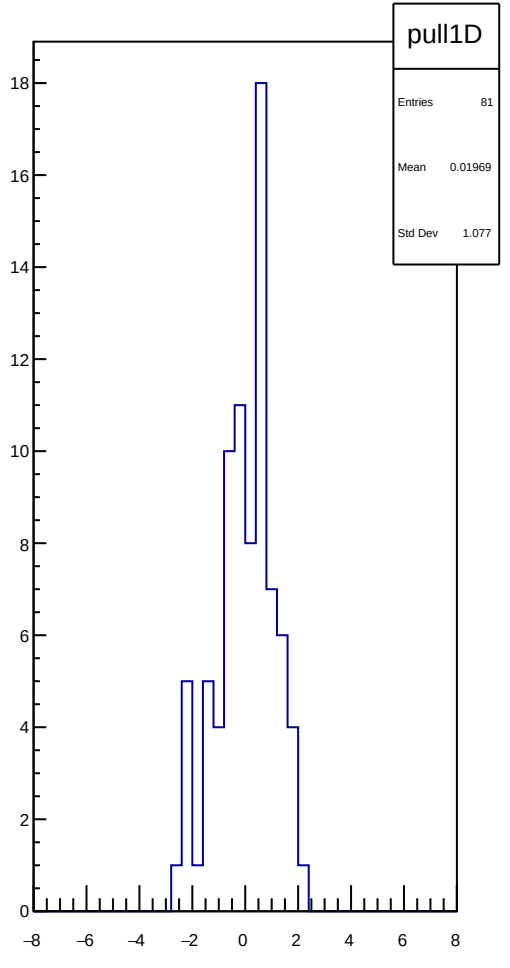

asym_usr_eigen_cor_correction_rms vs run
χ² / ndf 6320 / 80
p0 1407 ± 1.133
1700
1600
1500
1400
1300
1200

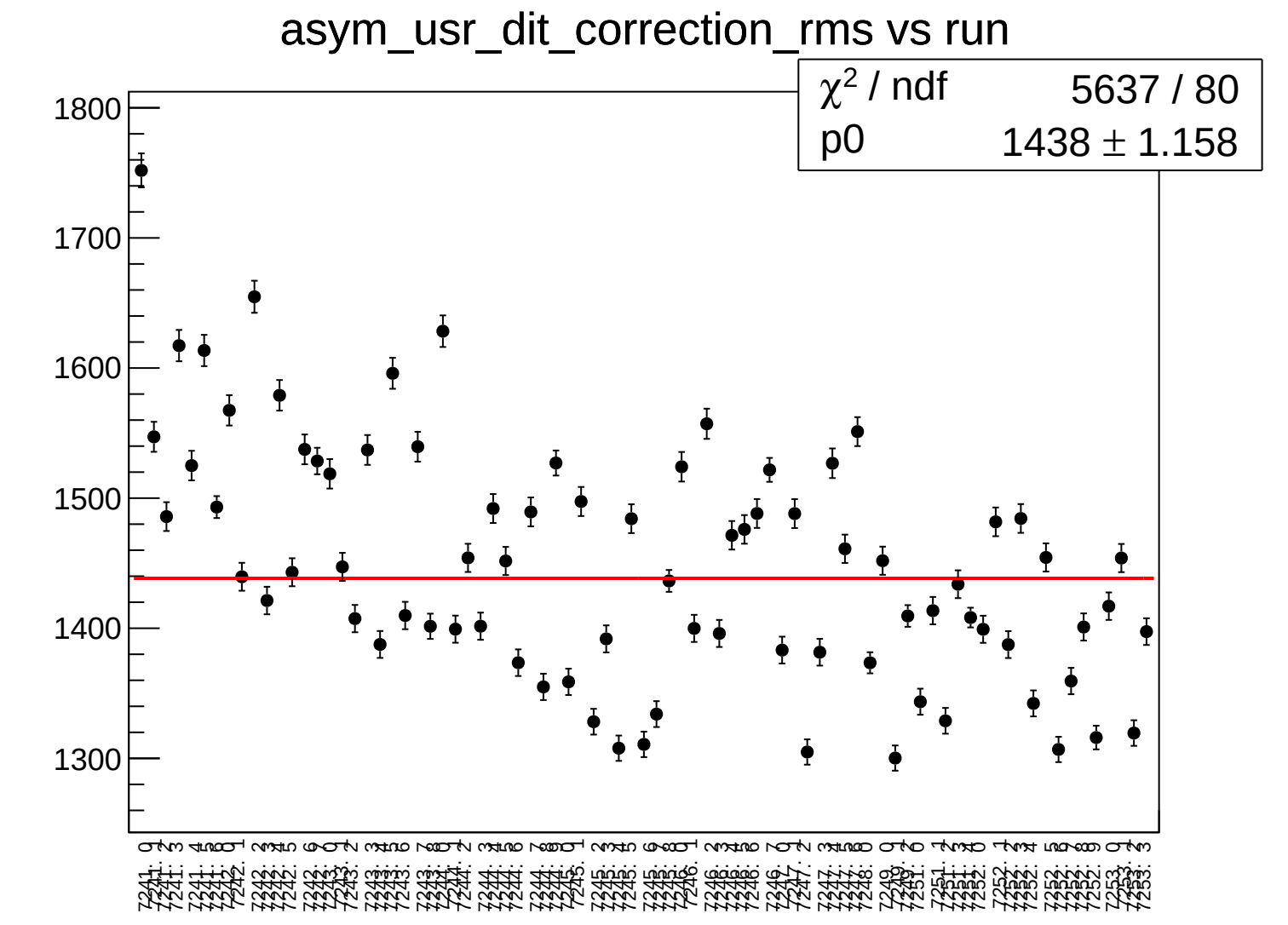

dit_asym_usr_mean vs run
χ² / ndf 70.49 / 80
p0 2203 ± 1239
pull
Entries 81
Mean 510.4
Std Dev 0

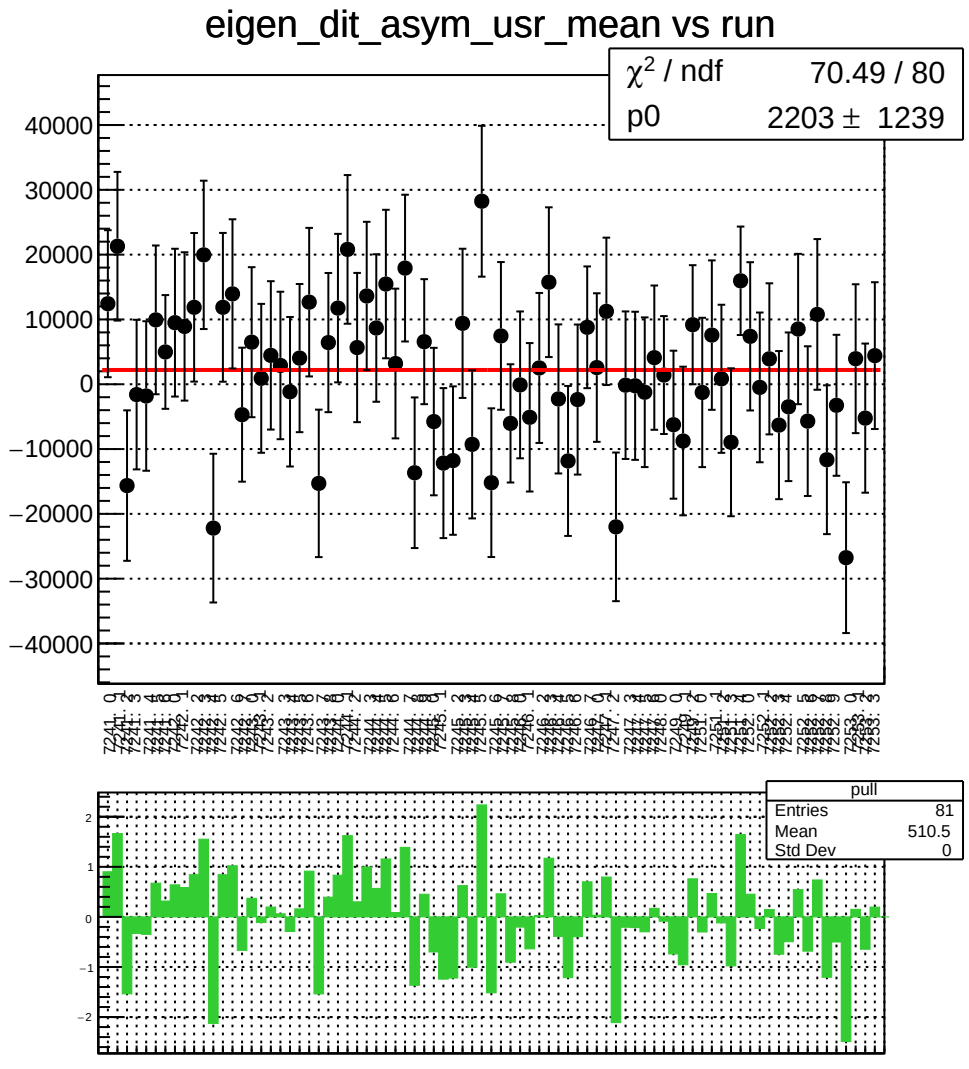

pull1D
Entries 81
Mean −0.01083
Std Dev 0.9328

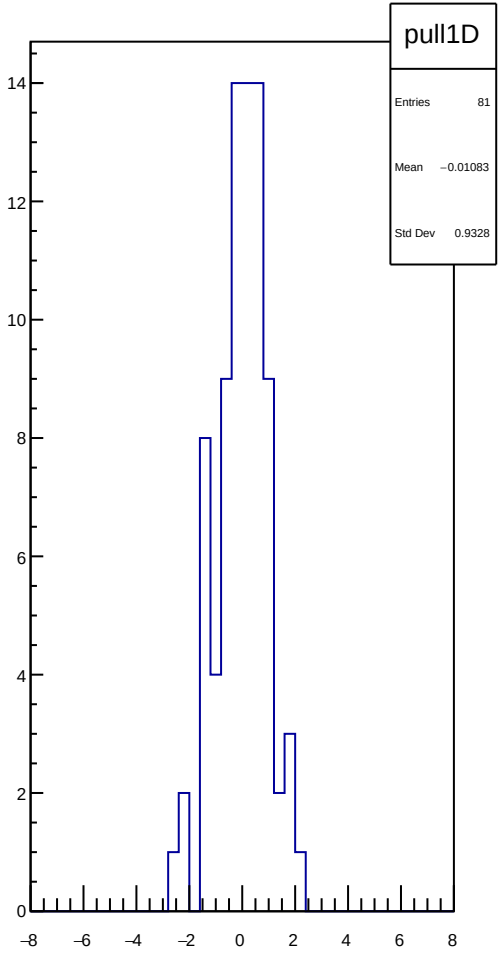

dit_asym_usr_rms vs run
χ² / ndf 80.86 / 80
p0 1091 ± 0.8764
1120
1110
1100
1090
1080
1070

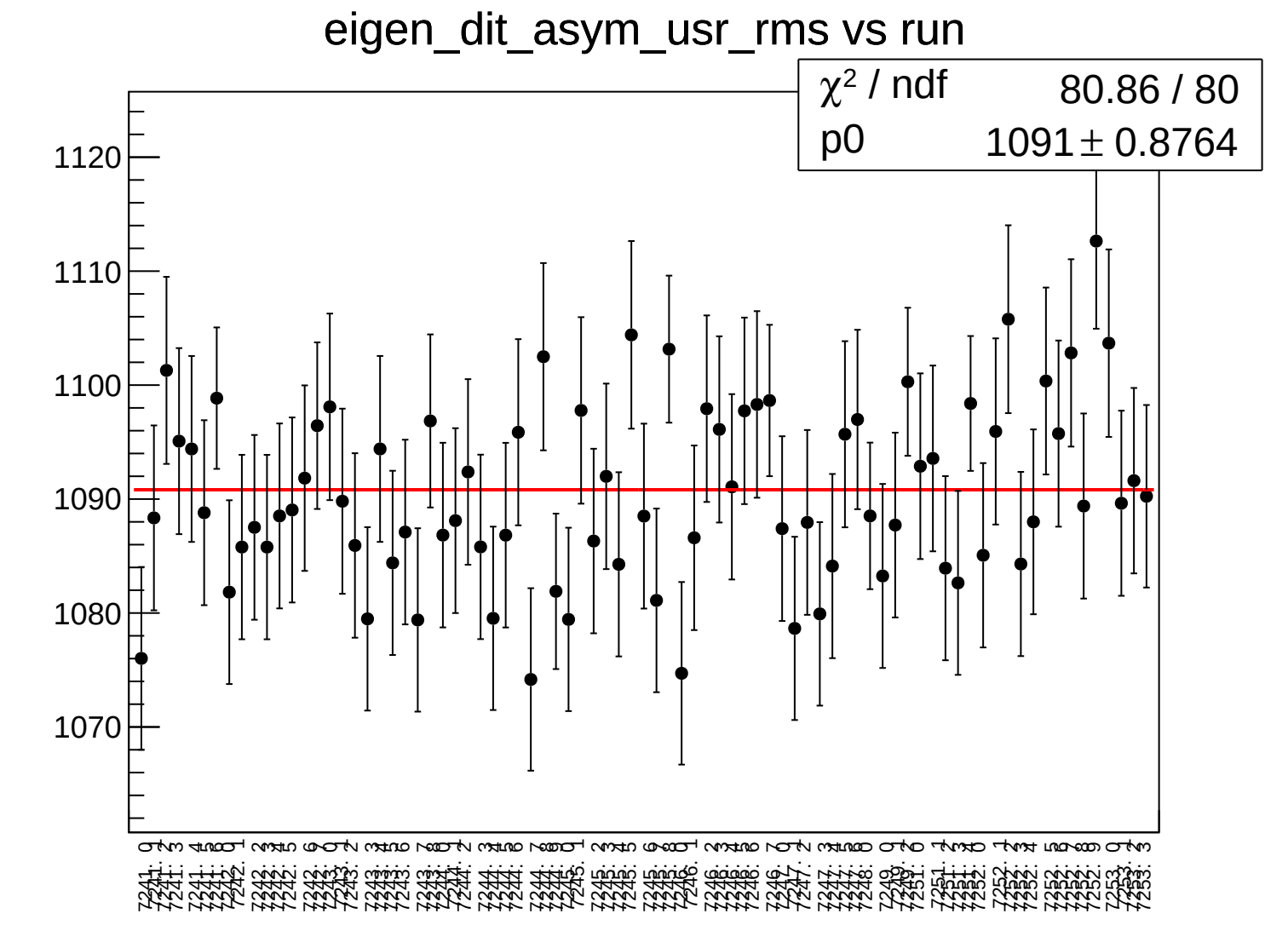

asym_usr_dit_correction_mean vs run
χ² / ndf 93.99 / 80
p0 714.5 ± 1637
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −131.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

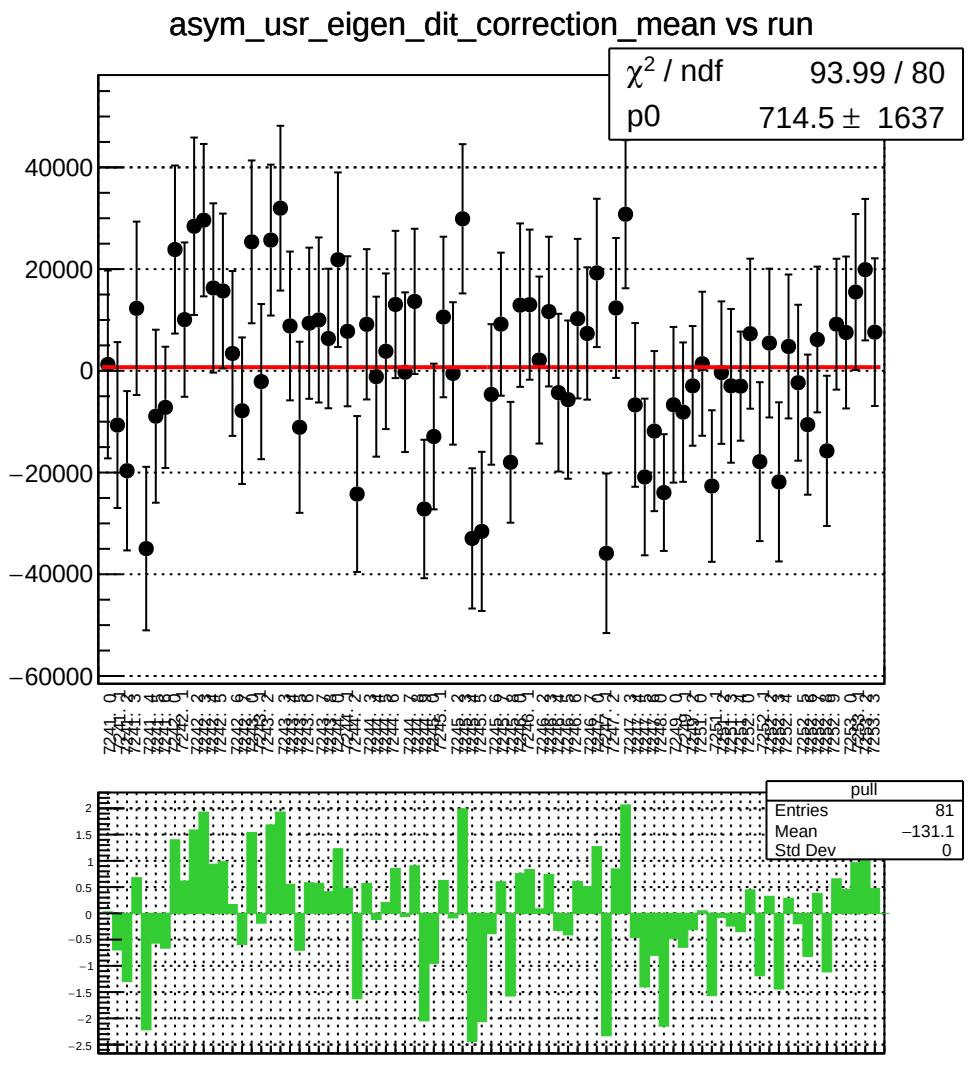

pull1D
Entries 81
Mean 0.01969
Std Dev 1.077
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

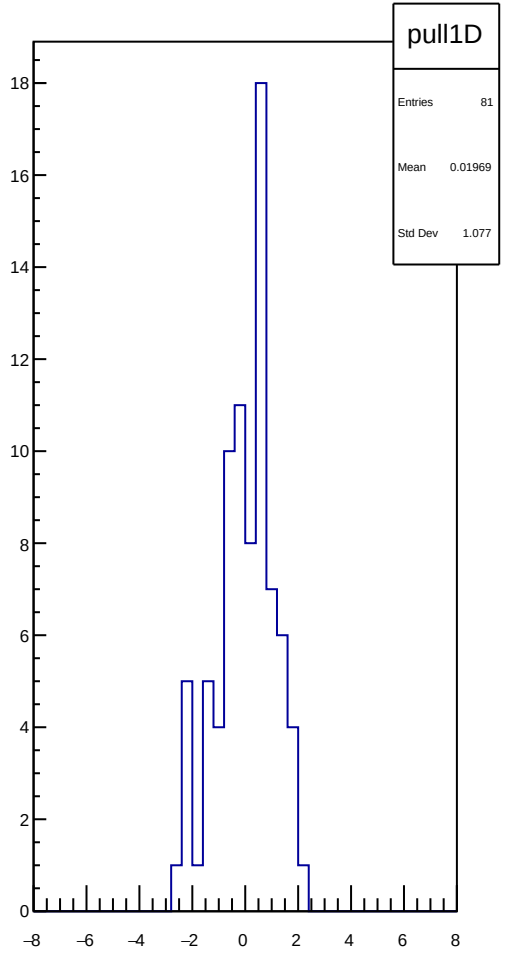

asym_usr_dit_correction_rms vs run
χ² / ndf 5637 / 80
p0 1438 ± 1.158
1800
1700
1600
1500
1400
1300

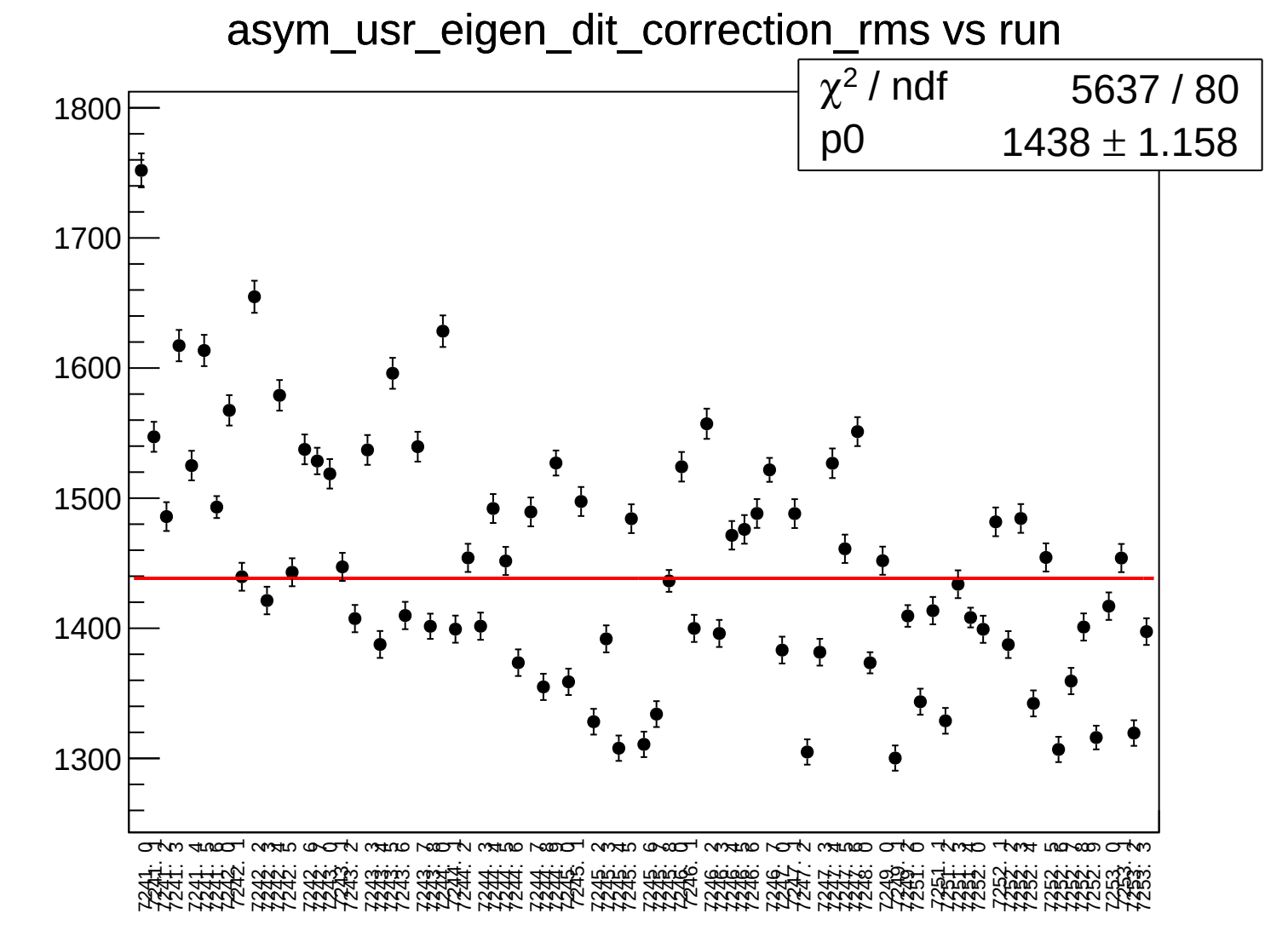

eigen_dit_asym_usr_mean vs run
χ² / ndf 70.49 / 80
p0 2203 ± 1239
pull
Entries 81
Mean 510.5
Std Dev 0

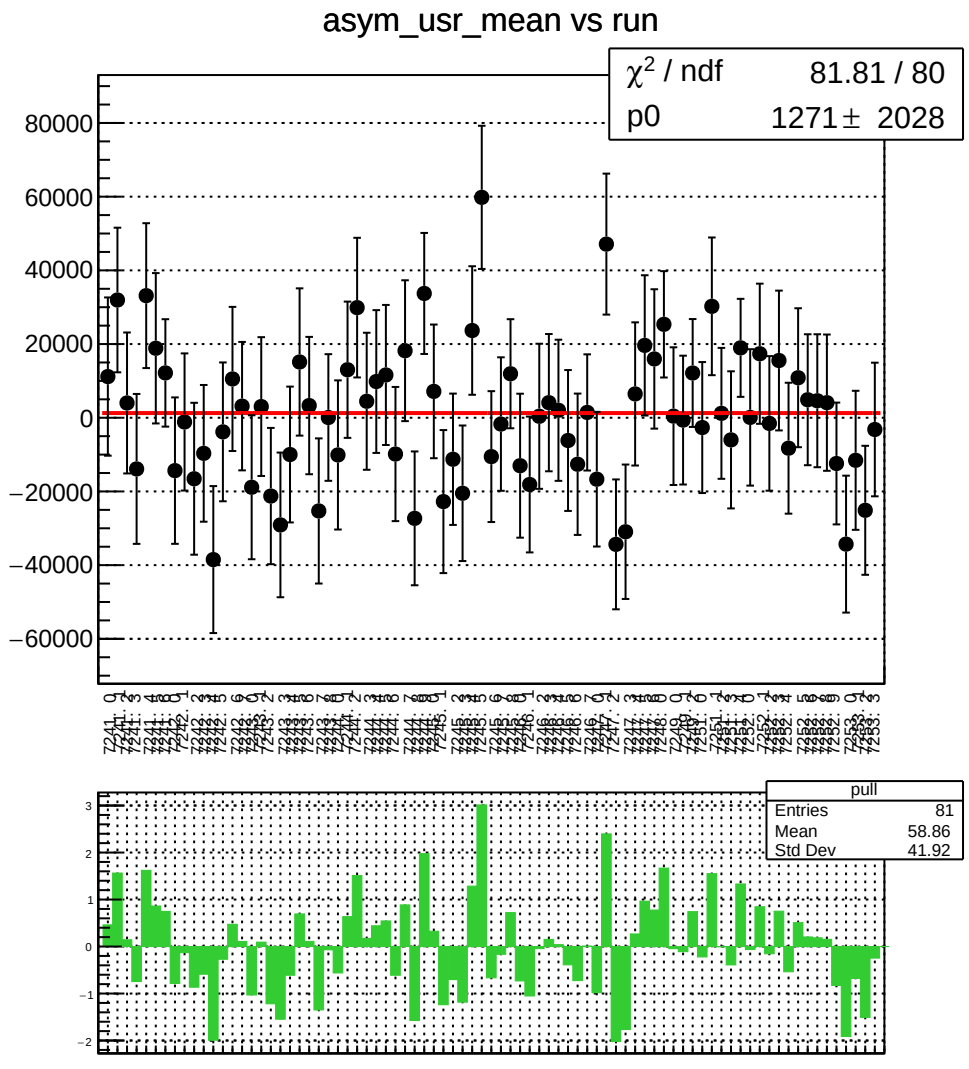

pull1D
Entries 81
Mean −0.01083
Std Dev 0.9328

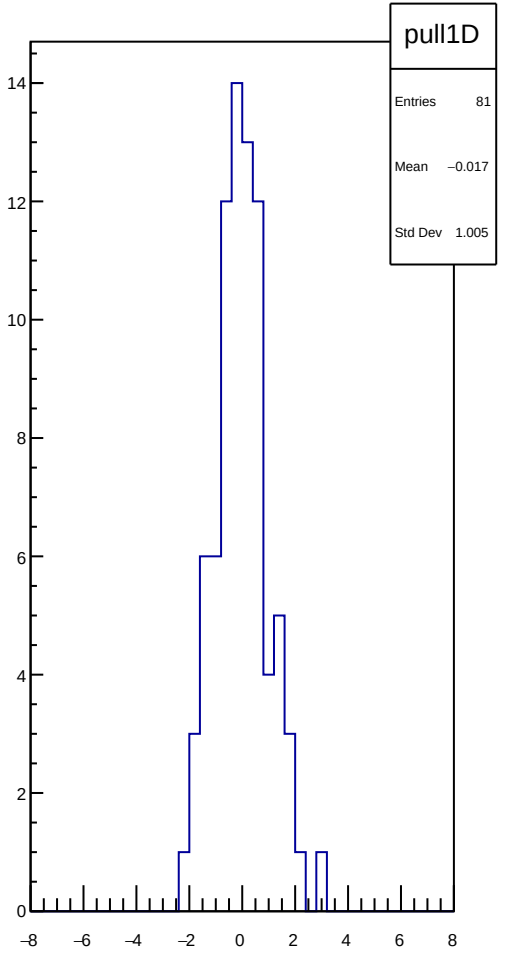

eigen_dit_asym_usr_rms vs run
χ² / ndf 80.86 / 80
p0 1091 ± 0.8764
1120
1110
1100
1090
1080
1070

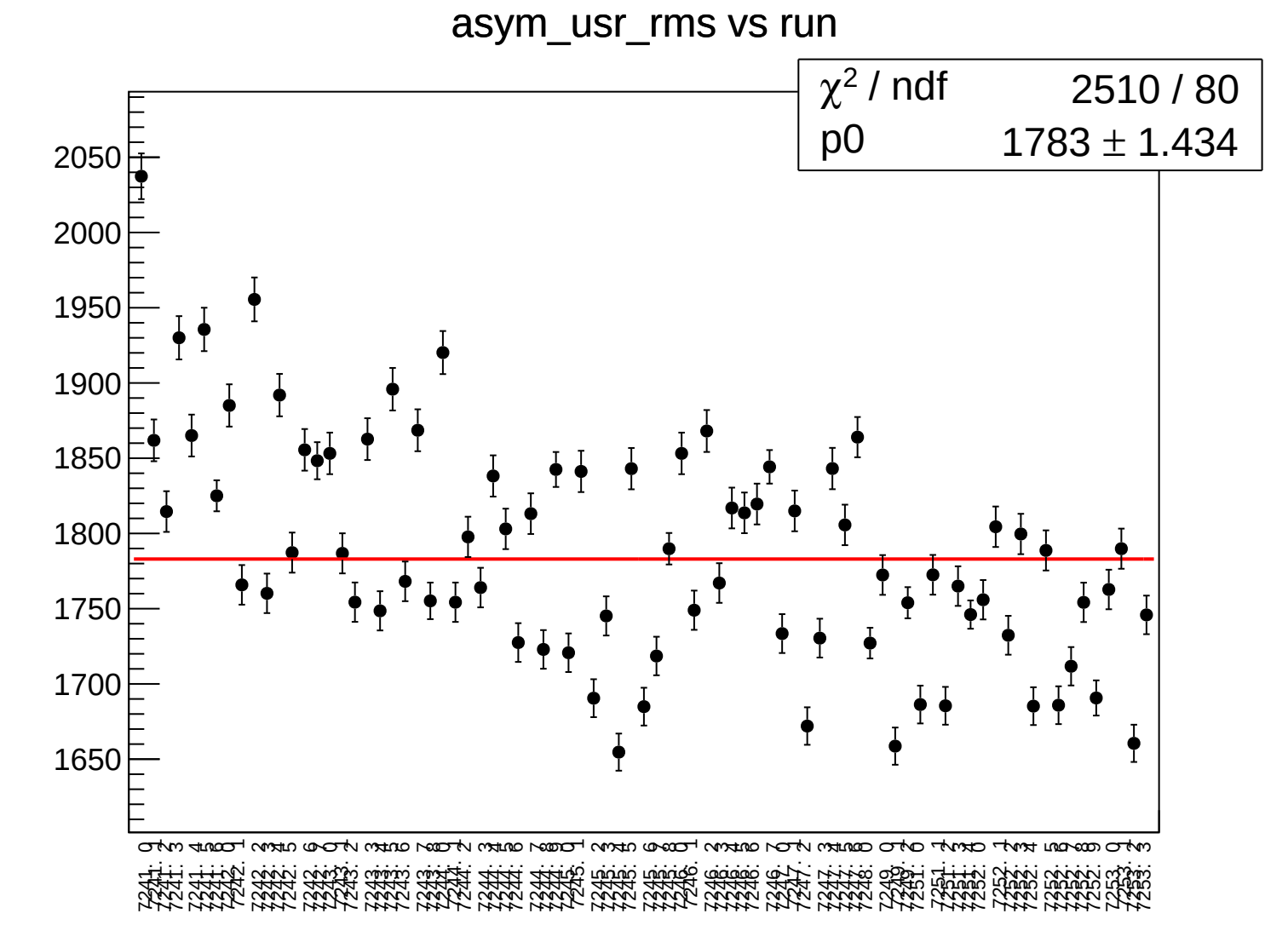

asym_usr_eigen_dit_correction_mean vs run
χ² / ndf 93.99 / 80
p0 714.5 ± 1637
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −131.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

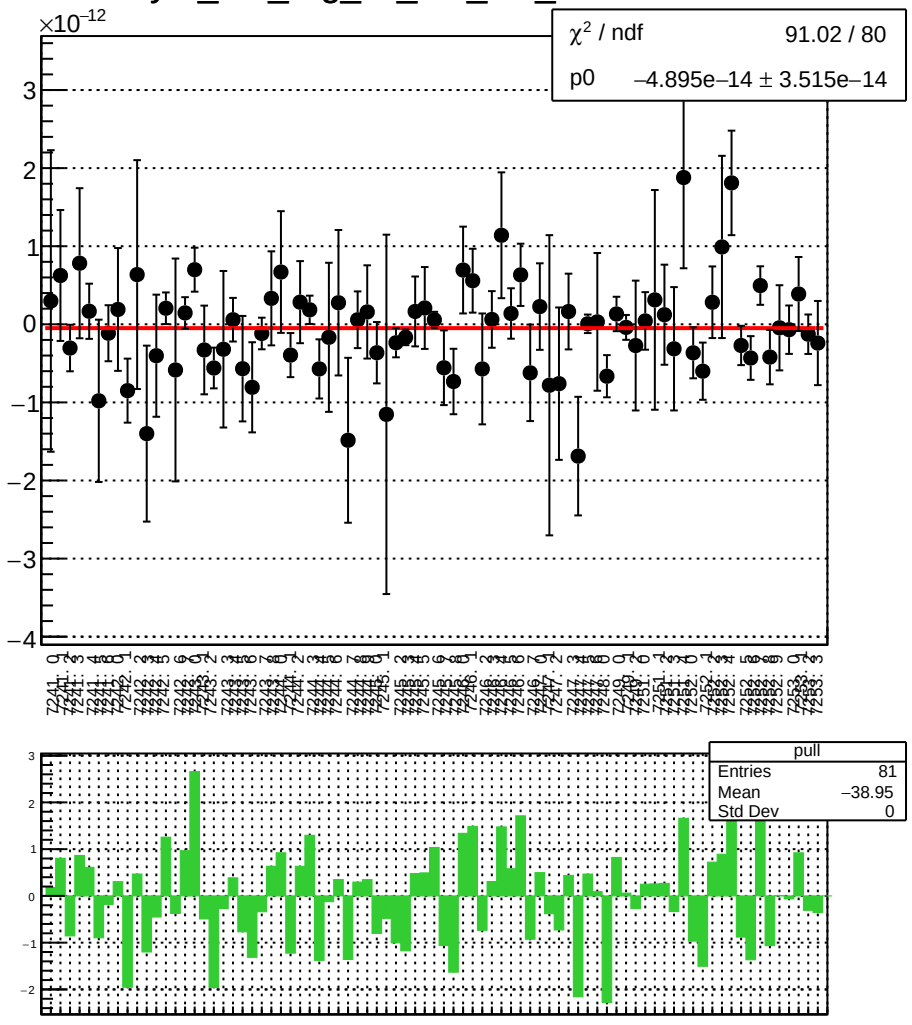

pull1D
Entries 81
Mean 0.01969
Std Dev 1.077
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

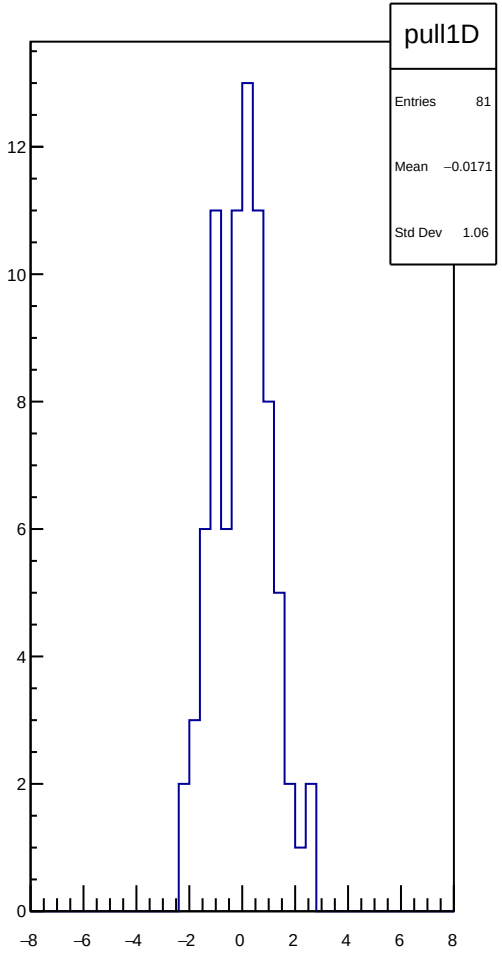

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 5637 / 80
p0 1438 ± 1.158
1800
1700
1600
1500
1400
1300


asym_usr_mean vs run
χ² / ndf 81.81 / 80
p0 1271 ± 2028
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean 58.86
Std Dev 41.92
3
2
1
0
−1
−2

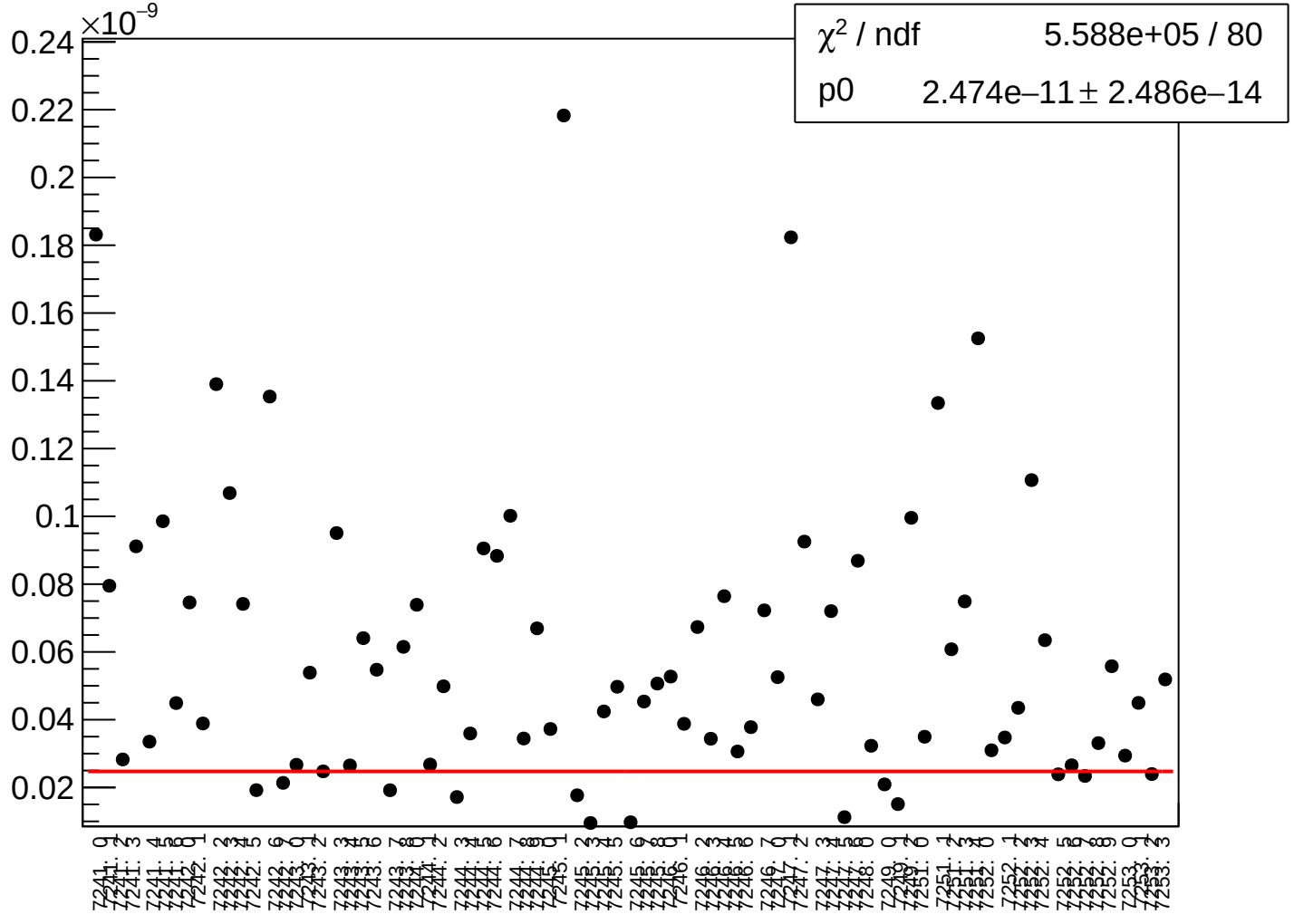

pull1D
Entries 81
Mean −0.017
Std Dev 1.005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

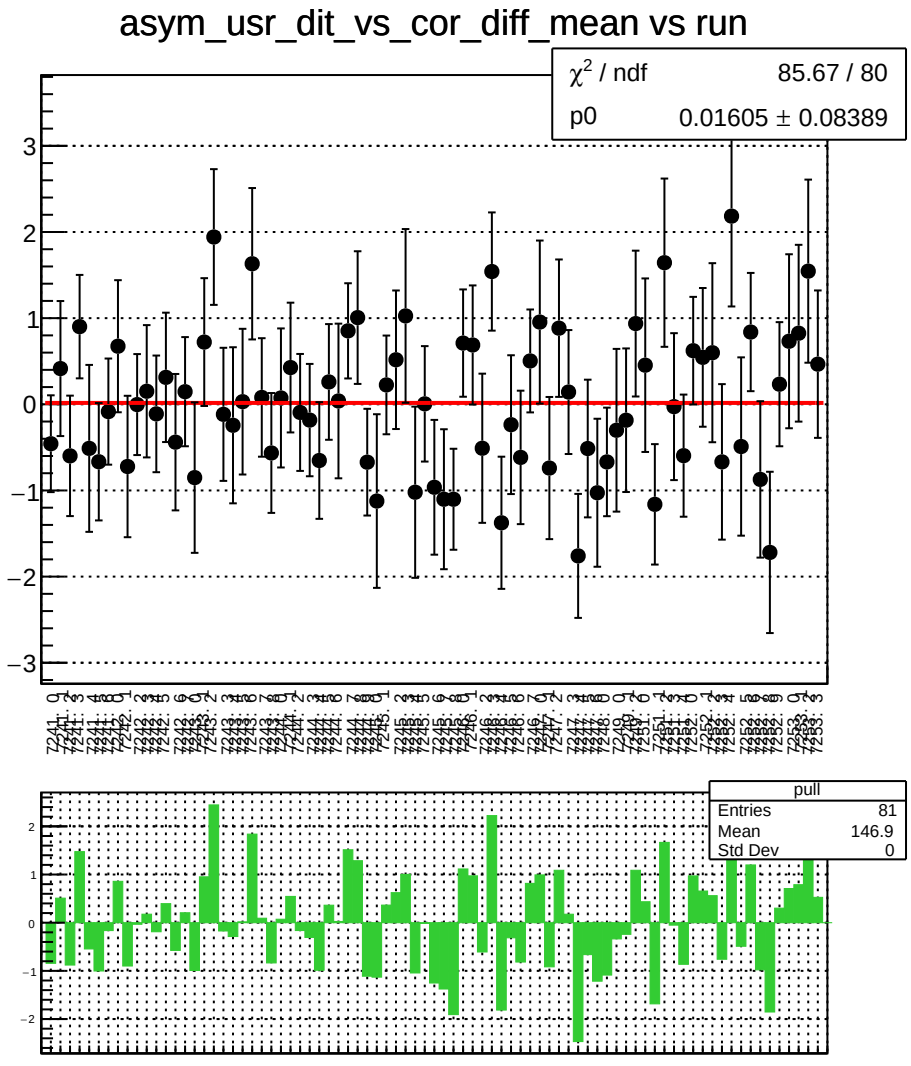

asym_usr_rms vs run
χ² / ndf 2510 / 80
p0 1783 ± 1.434
2050
2000
1950
1900
1850
1800
1750
1700
1650

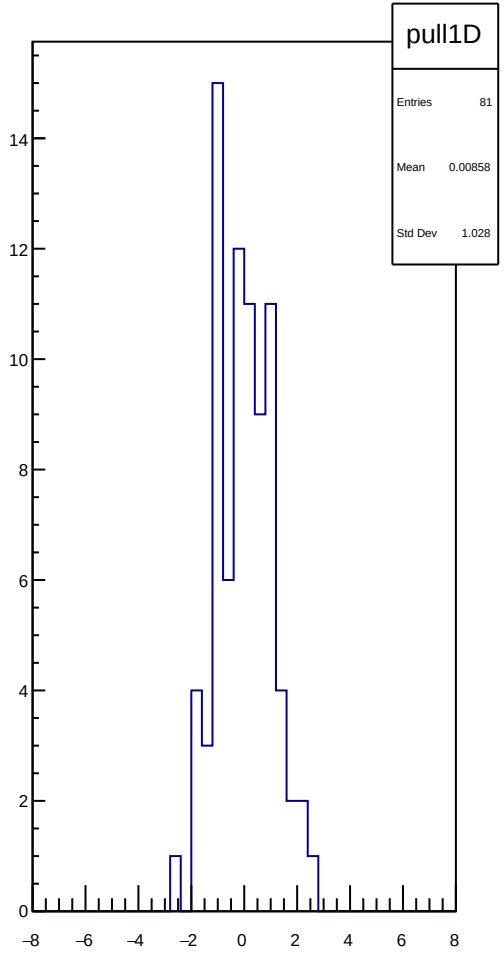

asym_usr_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.02 / 80
p0 −4.895e−14 ± 3.515e−14
pull
Entries 81
Mean −38.95
Std Dev 0

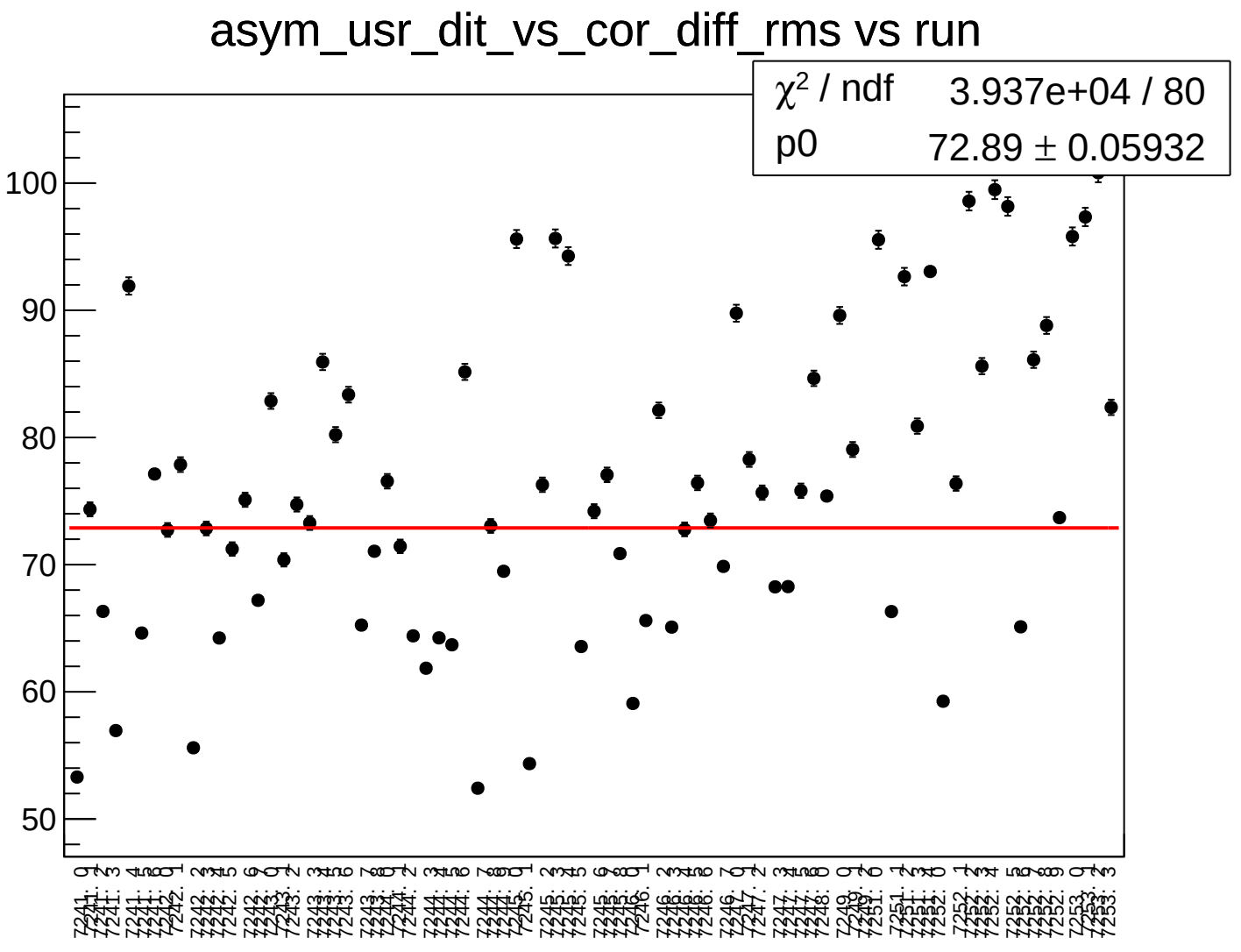

pull1D
Entries 81
Mean −0.0171
Std Dev 1.06

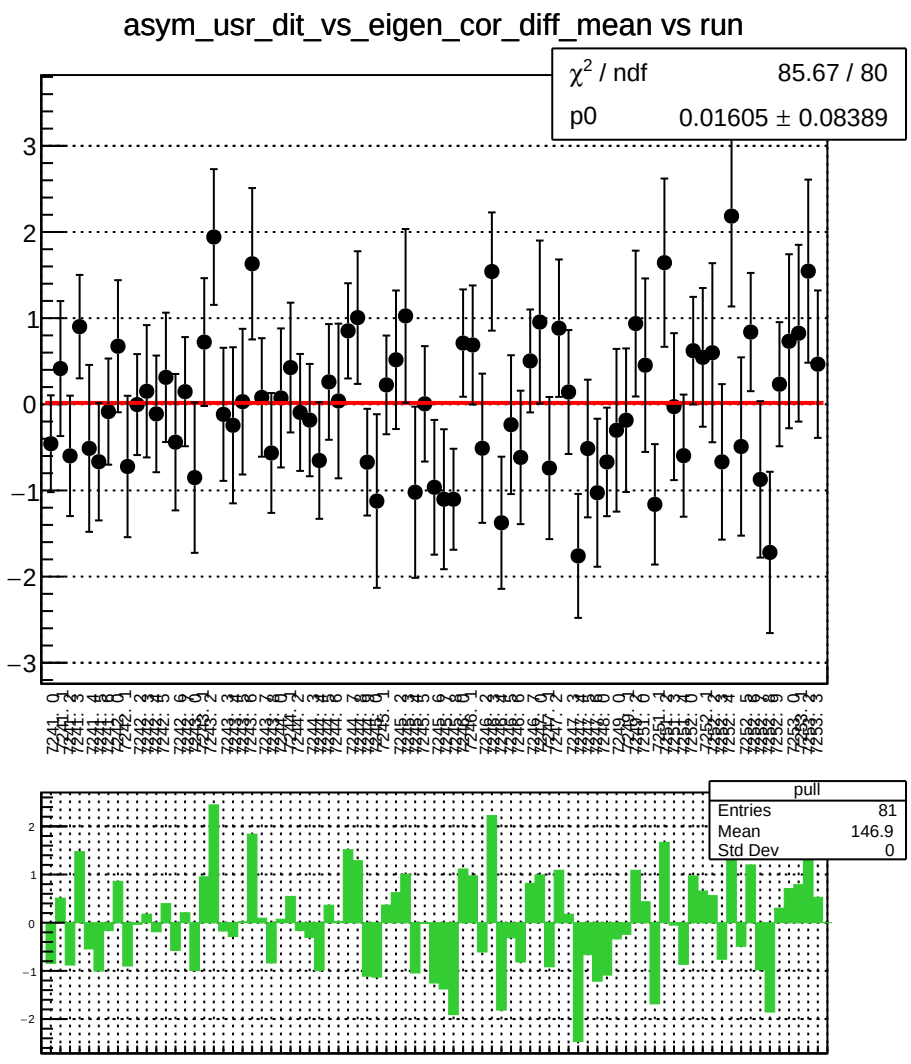
asym_usr_reg_vs_cor_diff_rms vs run

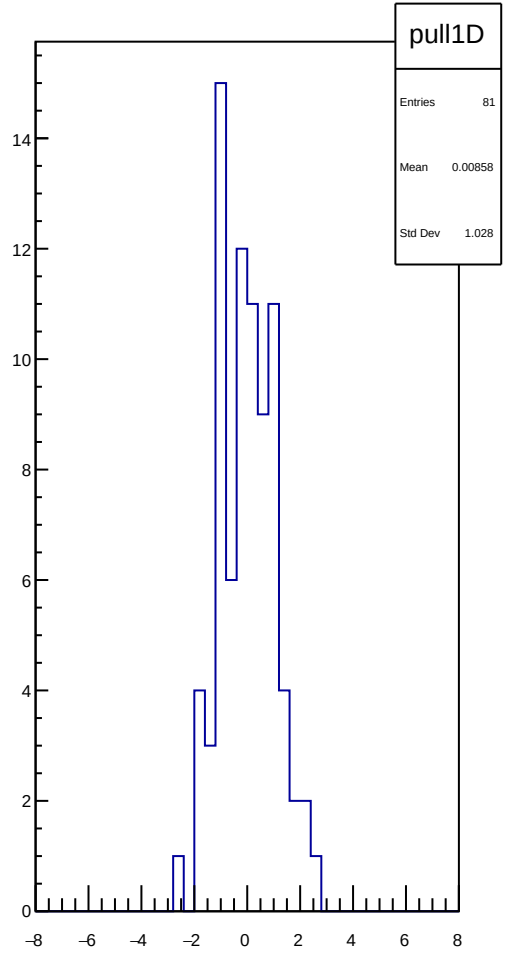


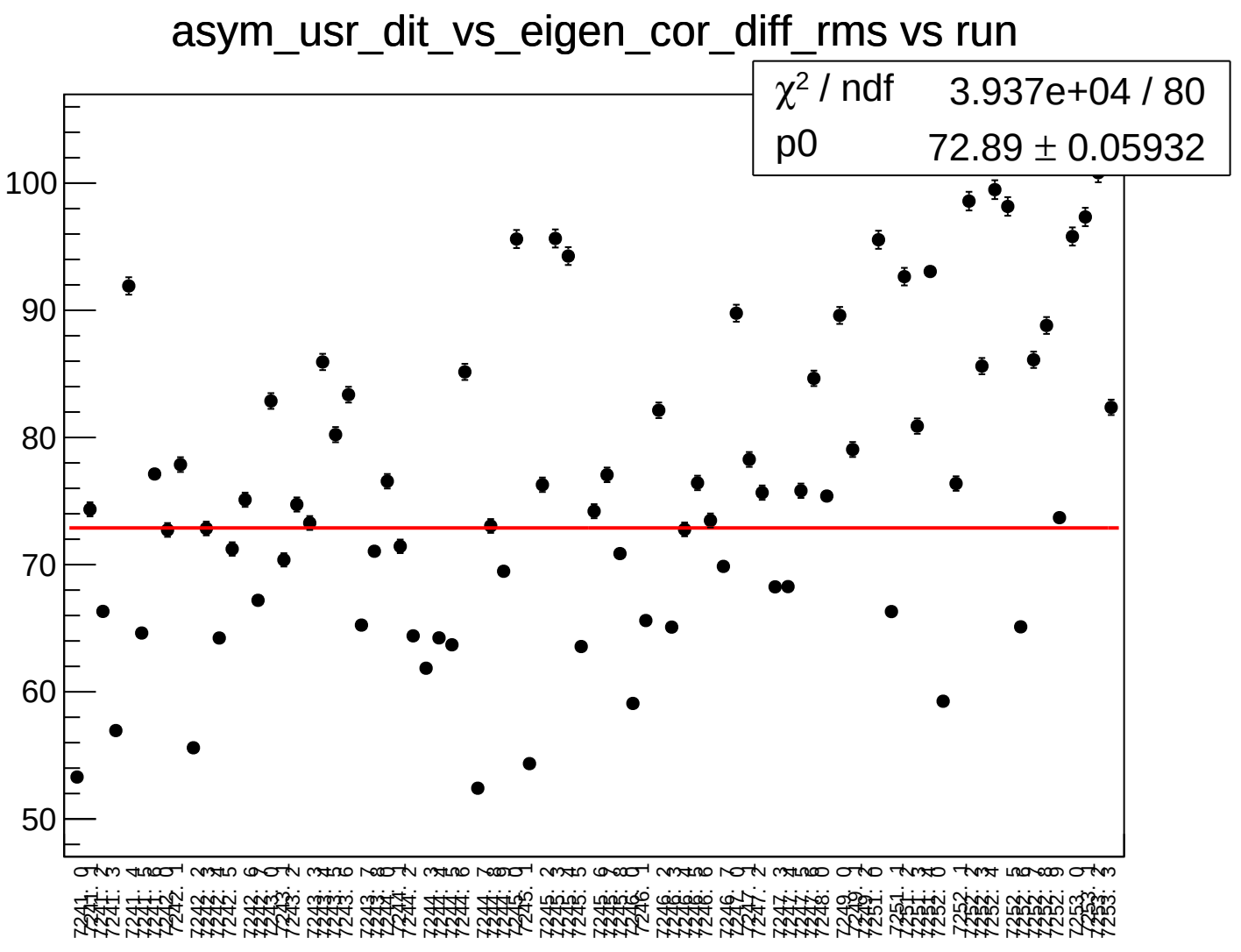

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 85.67 / 80
p0 0.01605 ± 0.08389
pull
Entries 81
Mean 146.9
Std Dev 0

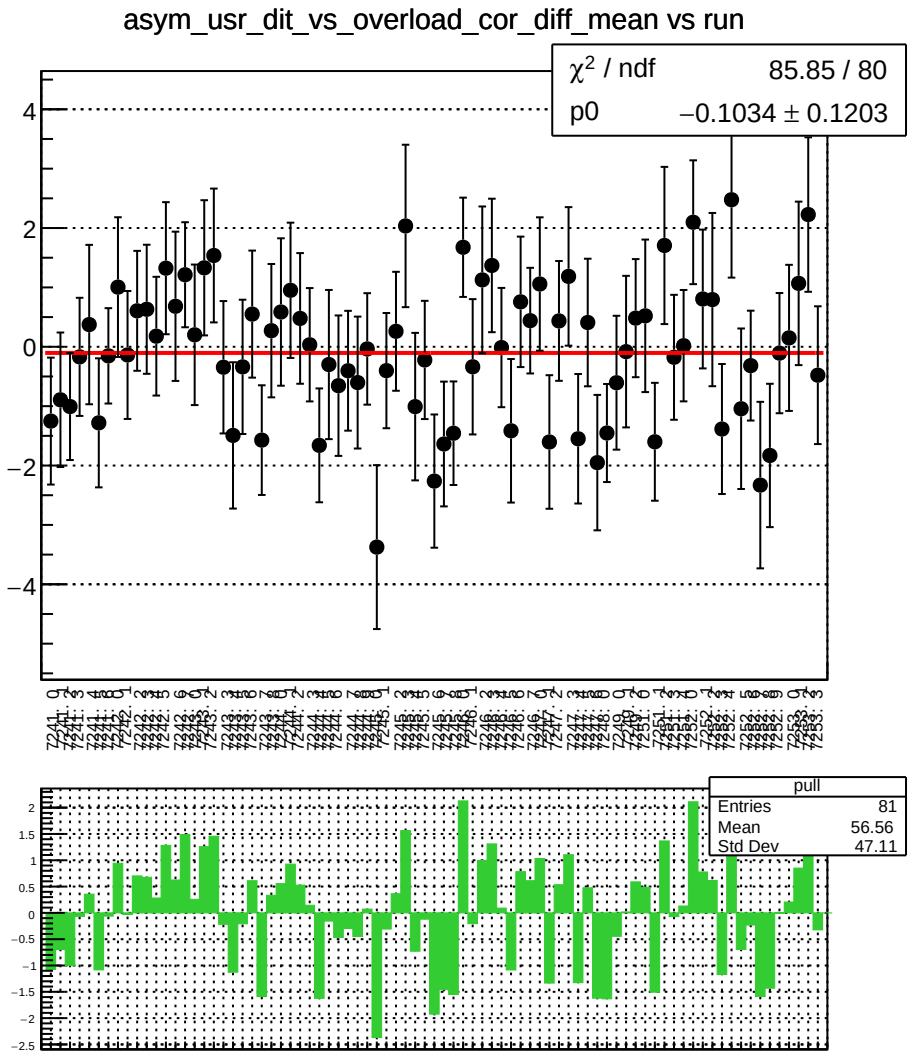

pull1D
Entries 81
Mean 0.00858
Std Dev 1.028

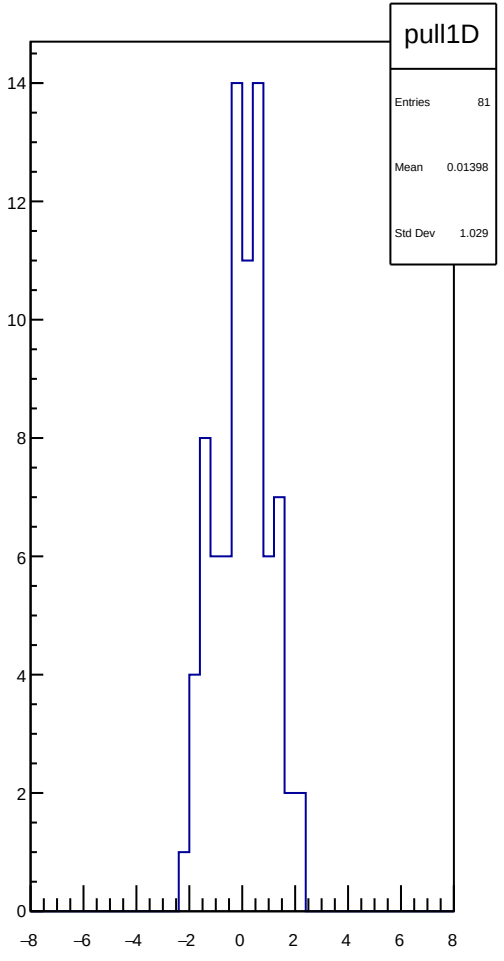

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 3.937e+04 / 80
p0 72.89 ± 0.05932
100
90
80
70
60
50

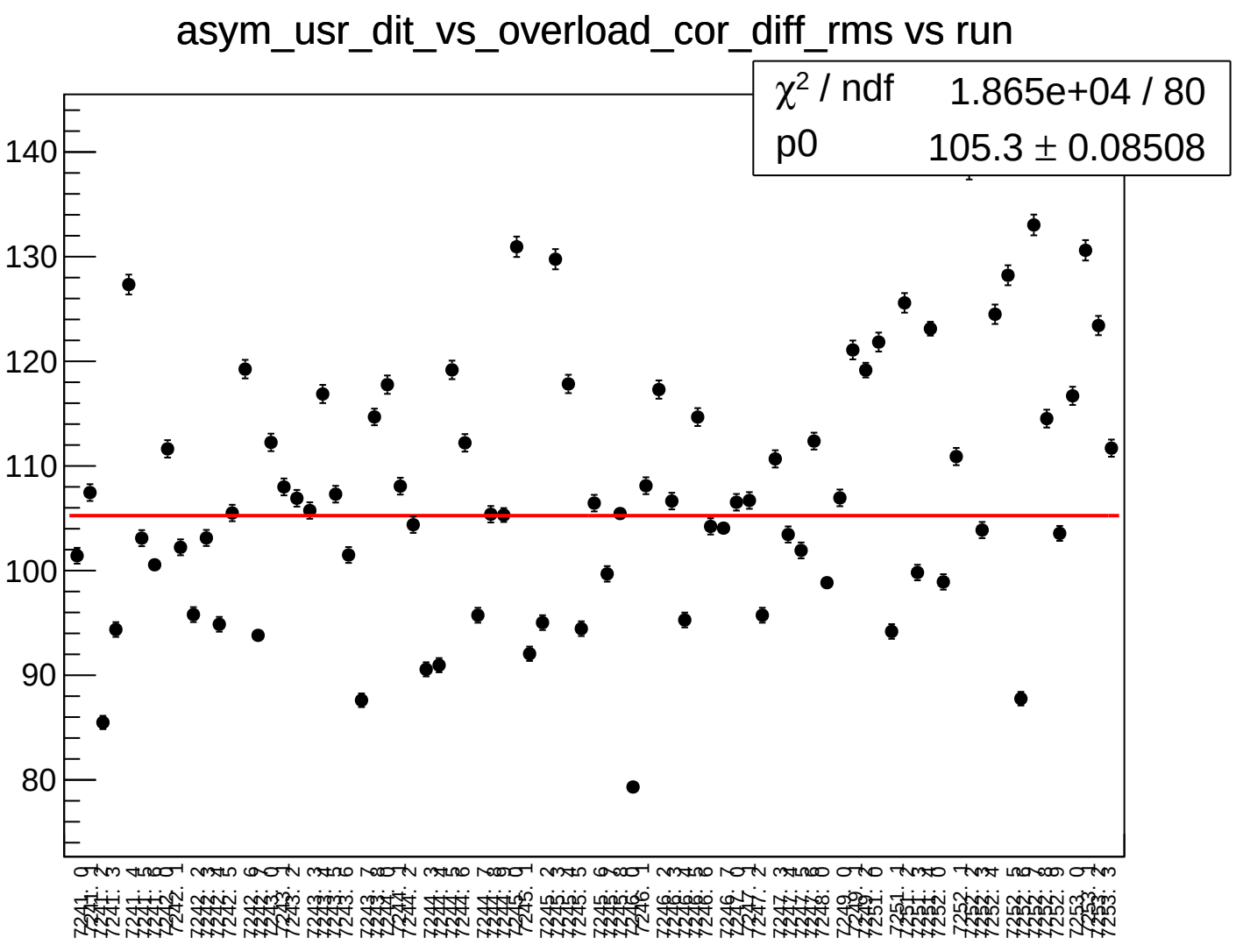

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.67 / 80
p0 0.01605 ± 0.08389
pull
Entries 81
Mean 146.9
Std Dev 0

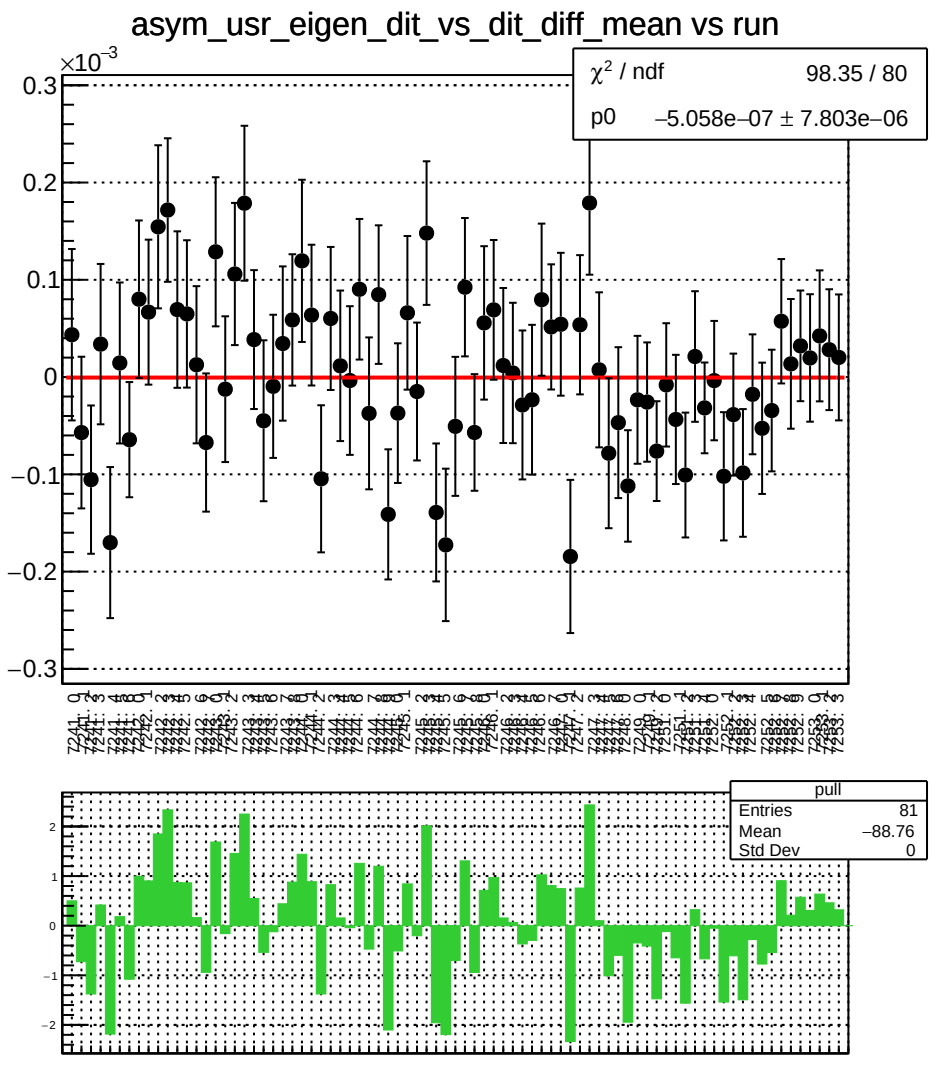

pull1D
Entries 81
Mean 0.00858
Std Dev 1.028

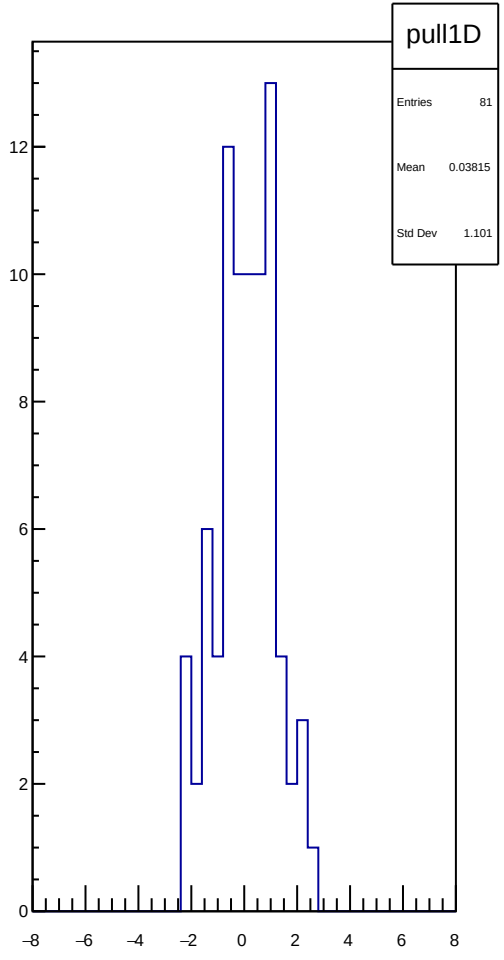

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.937e+04 / 80
p0 72.89 ± 0.05932
100
90
80
70
60
50

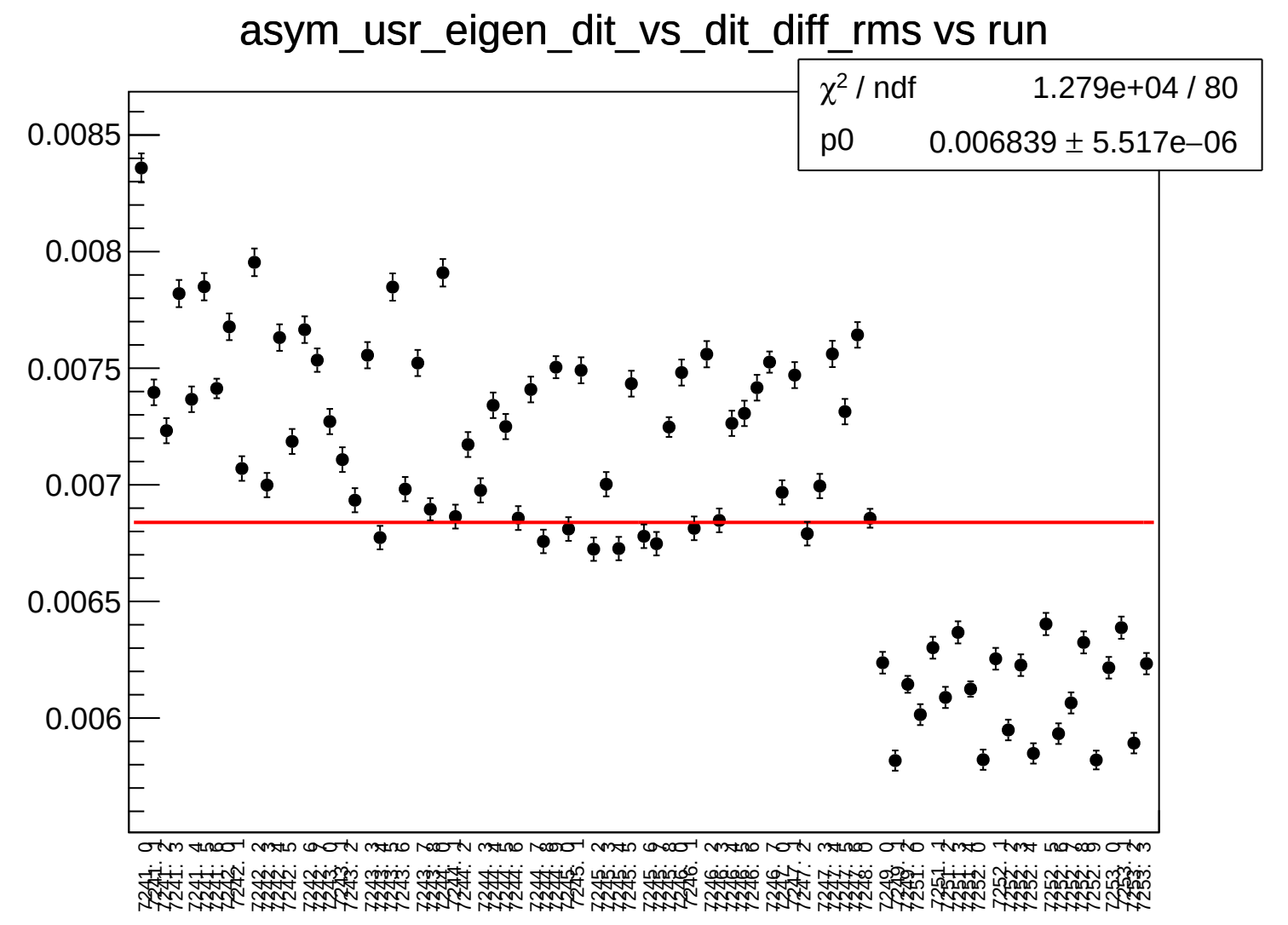

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 85.85 / 80
p0 −0.1034 ± 0.1203
pull
Entries 81
Mean 56.56
Std Dev 47.11

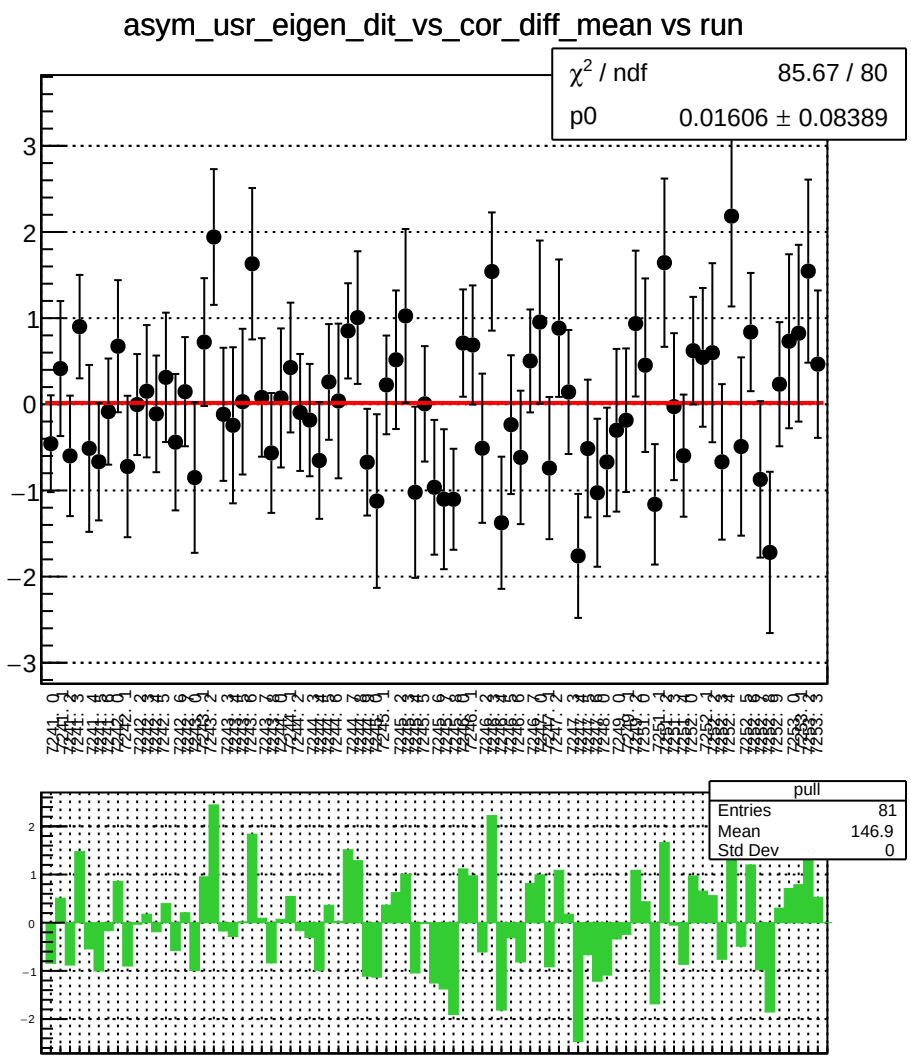

pull1D
Entries 81
Mean 0.01398
Std Dev 1.029

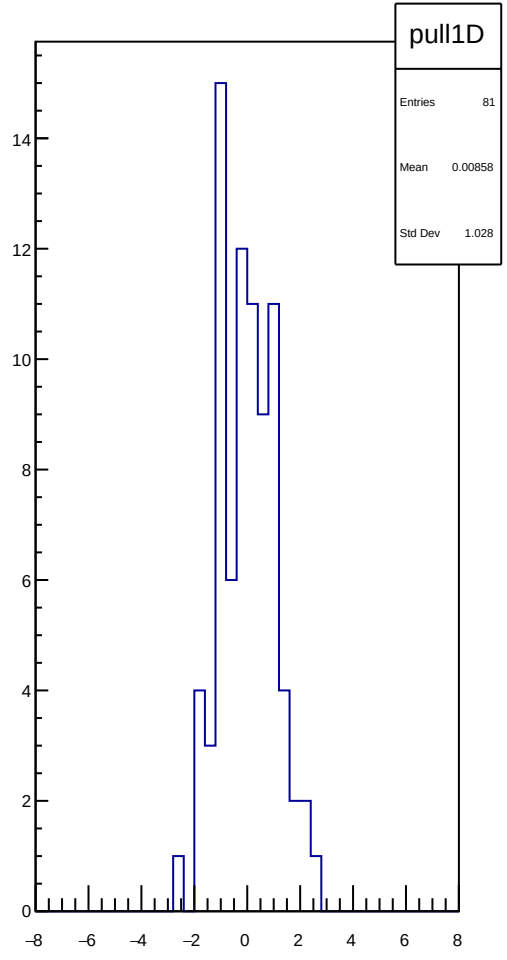

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.865e+04 / 80
p0 105.3 ± 0.08508
140
130
120
110
100
90
80

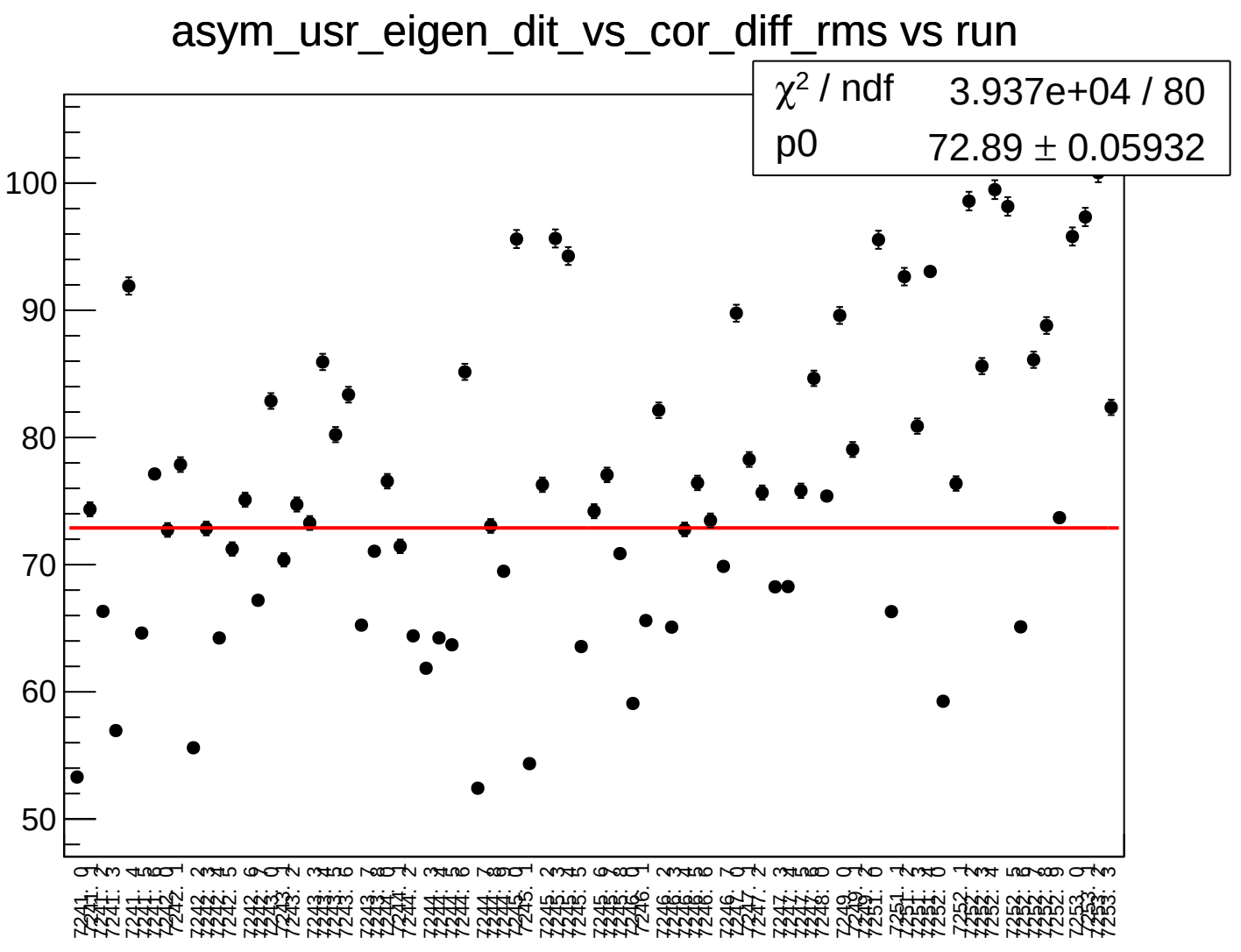

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.35 / 80
p0 −5.058e−07 ± 7.803e−06
pull
Entries 81
Mean −88.76
Std Dev 0

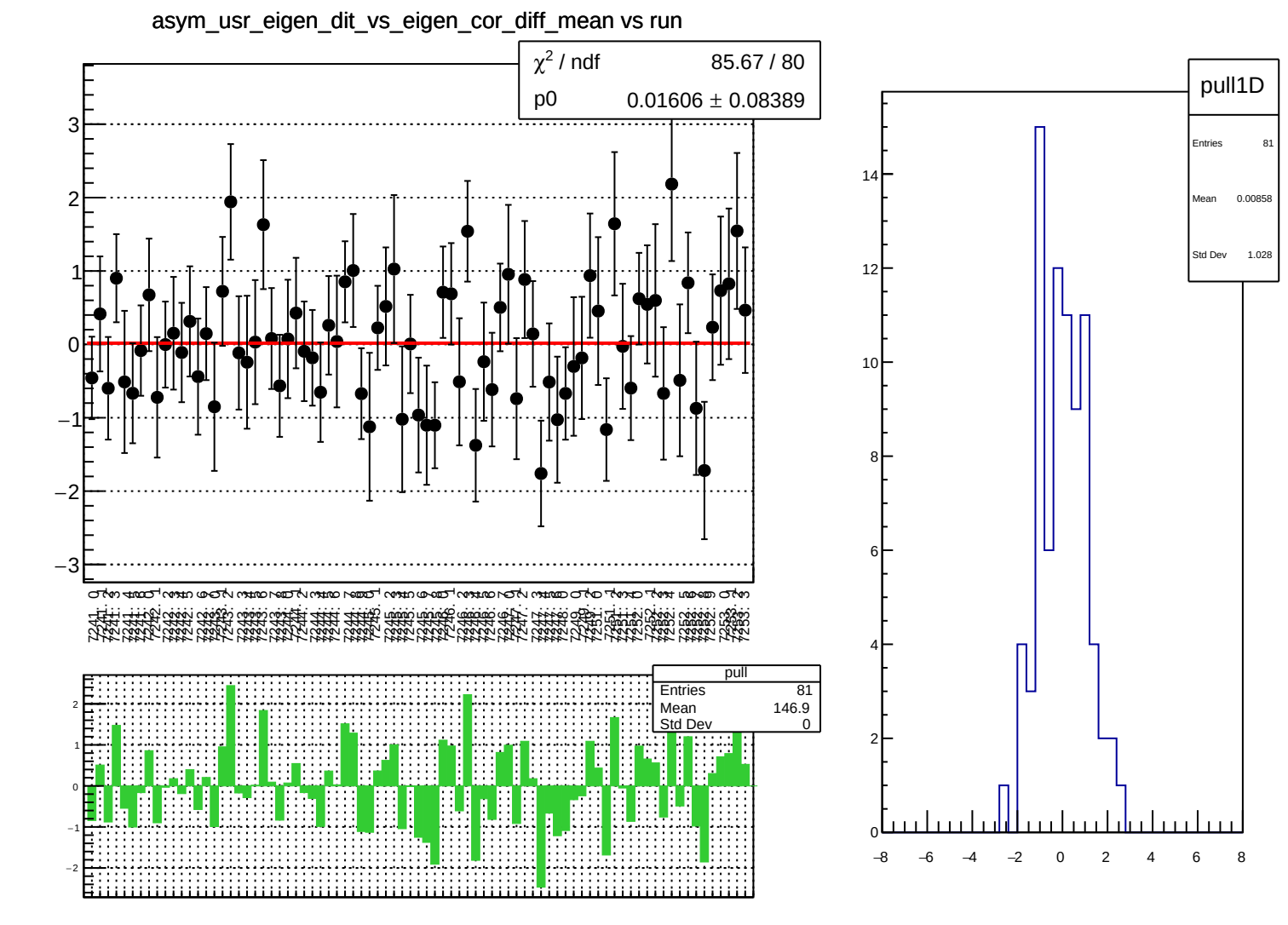

pull1D
Entries 81
Mean 0.03815
Std Dev 1.101

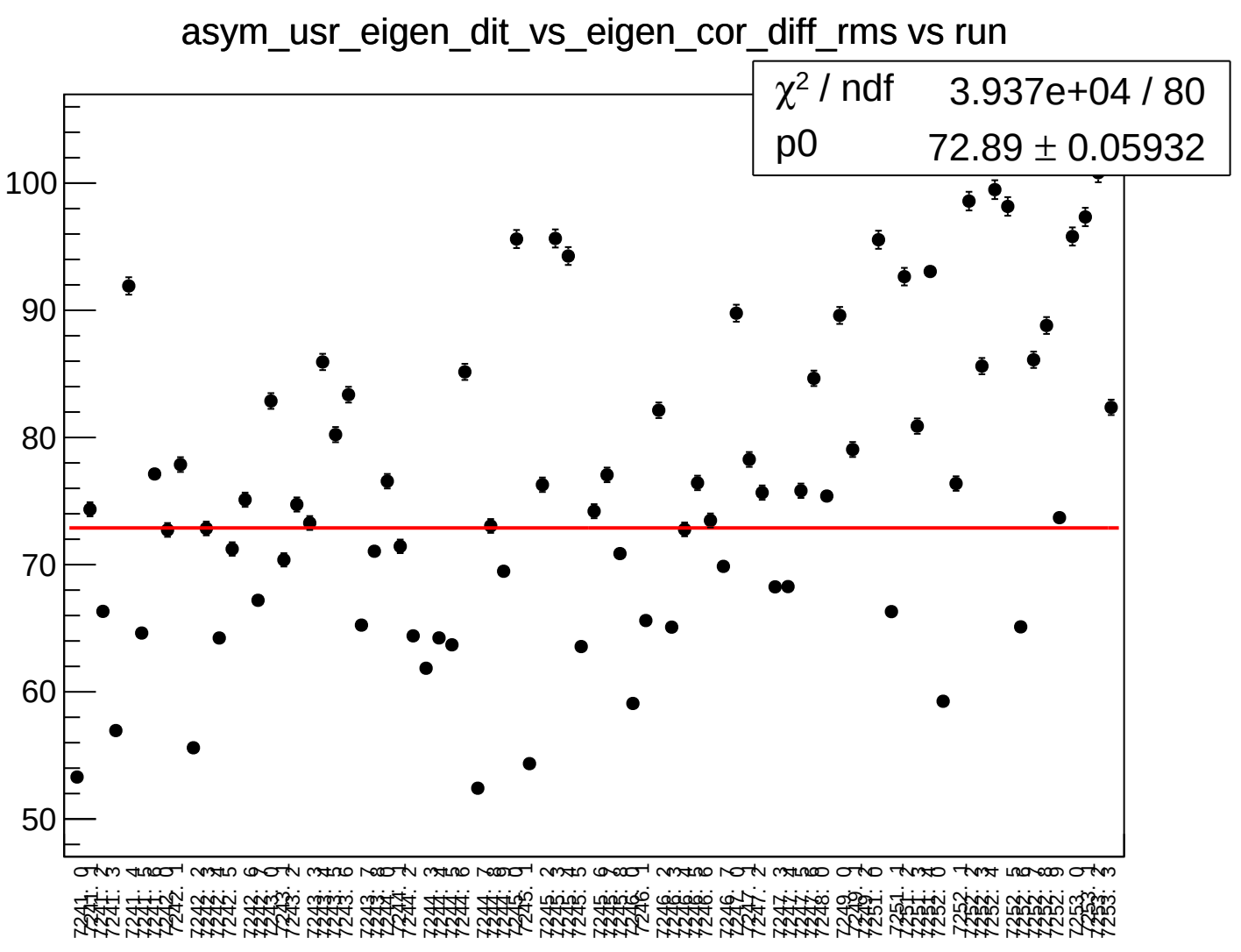

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.279e+04 / 80
p0 0.006839 ± 5.517e−06
0.0085
0.008
0.0075
0.007
0.0065
0.006

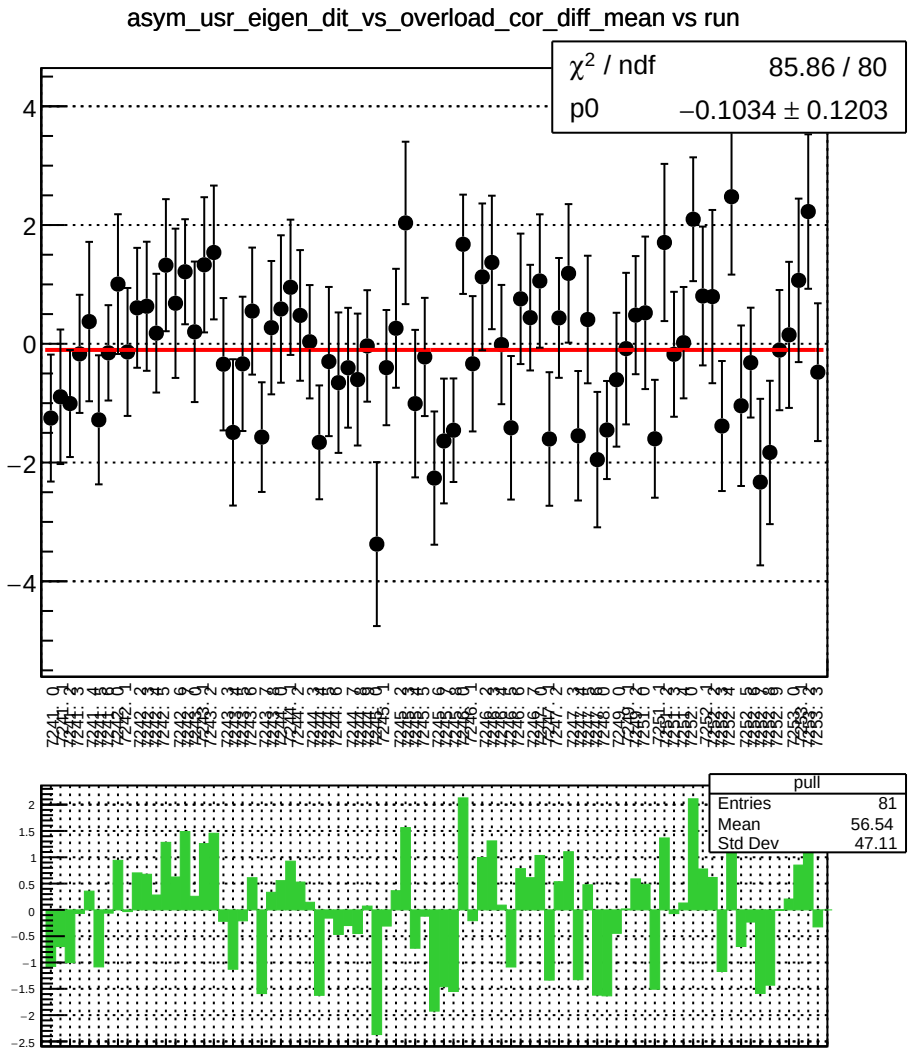

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.67 / 80
p0 0.01606 ± 0.08389
pull
Entries 81
Mean 146.9
Std Dev 0

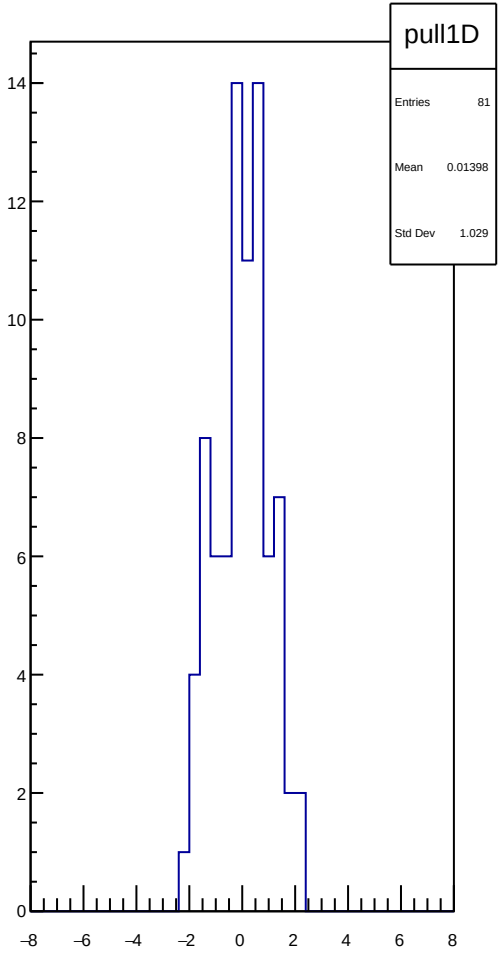

pull1D
Entries 81
Mean 0.00858
Std Dev 1.028

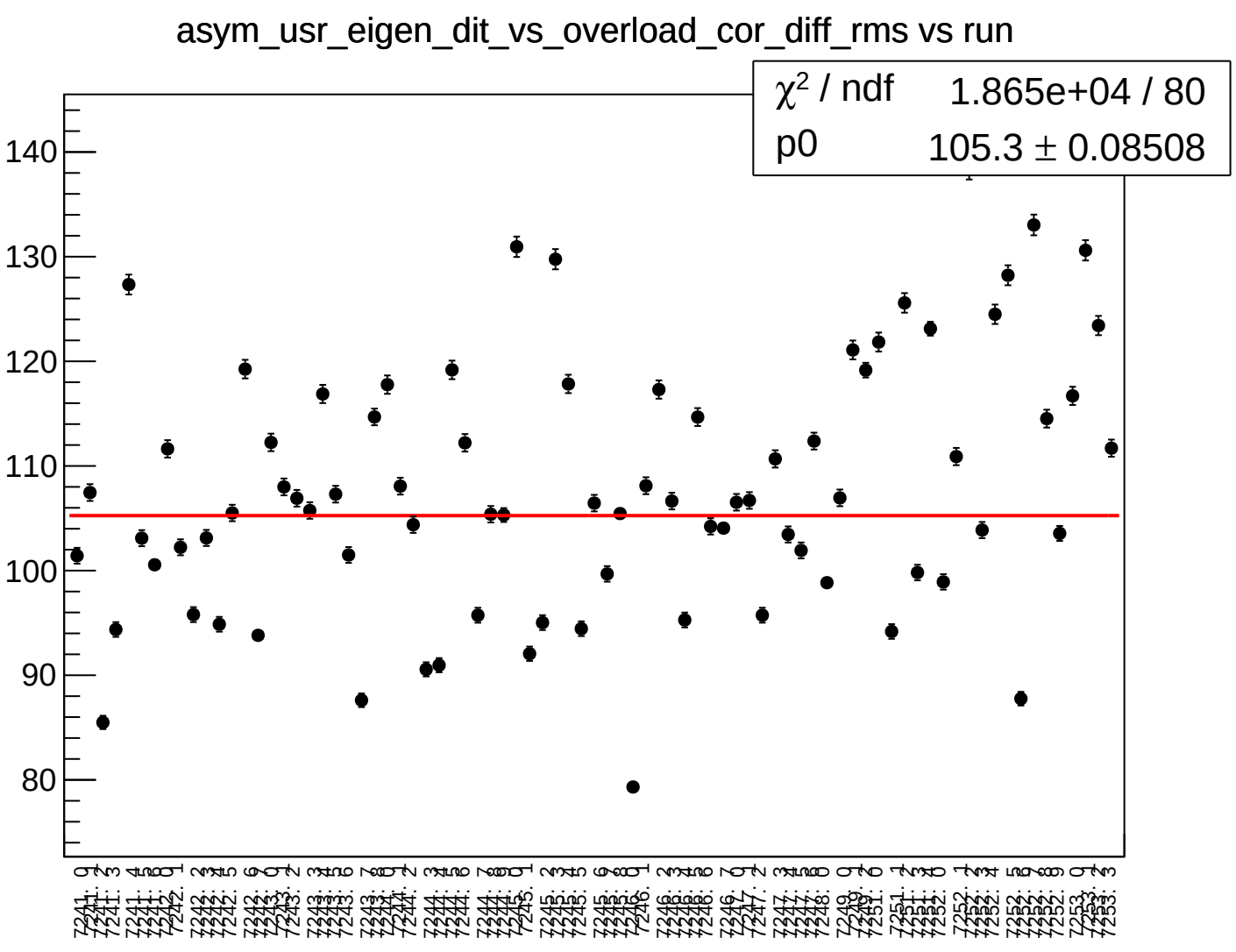

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.937e+04 / 80
p0 72.89 ± 0.05932
100
90
80
70
60
50

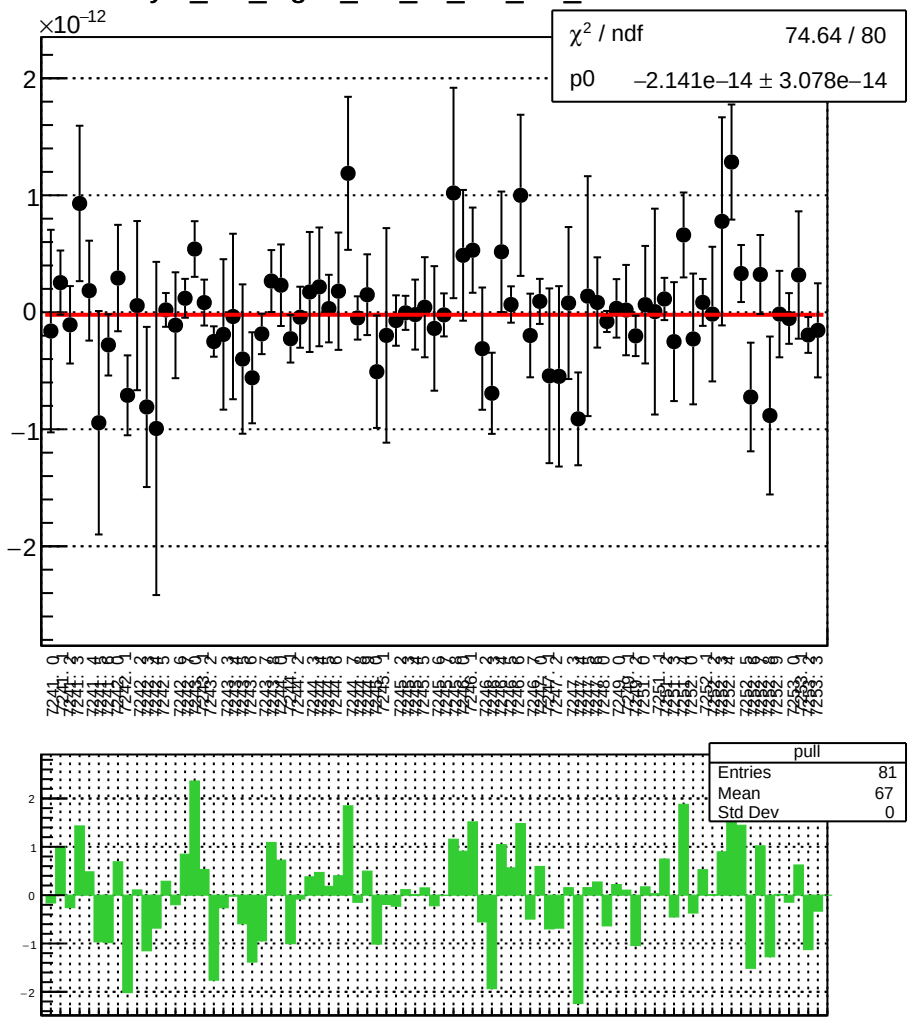

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.67 / 80
p0 0.01606 ± 0.08389
pull
Entries 81
Mean 146.9
Std Dev 0
pull1D
Entries 81
Mean 0.00858
Std Dev 1.028

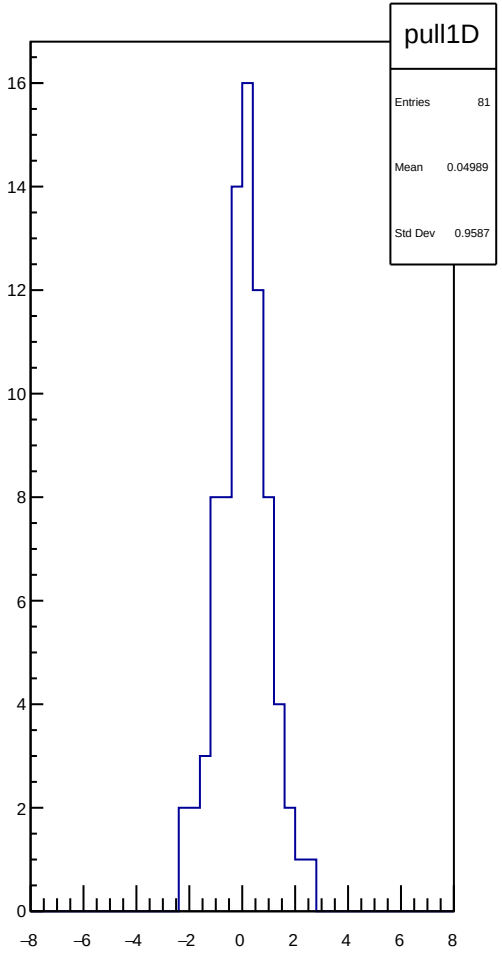

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.937e+04 / 80
p0 72.89 ± 0.05932
100
90
80
70
60
50

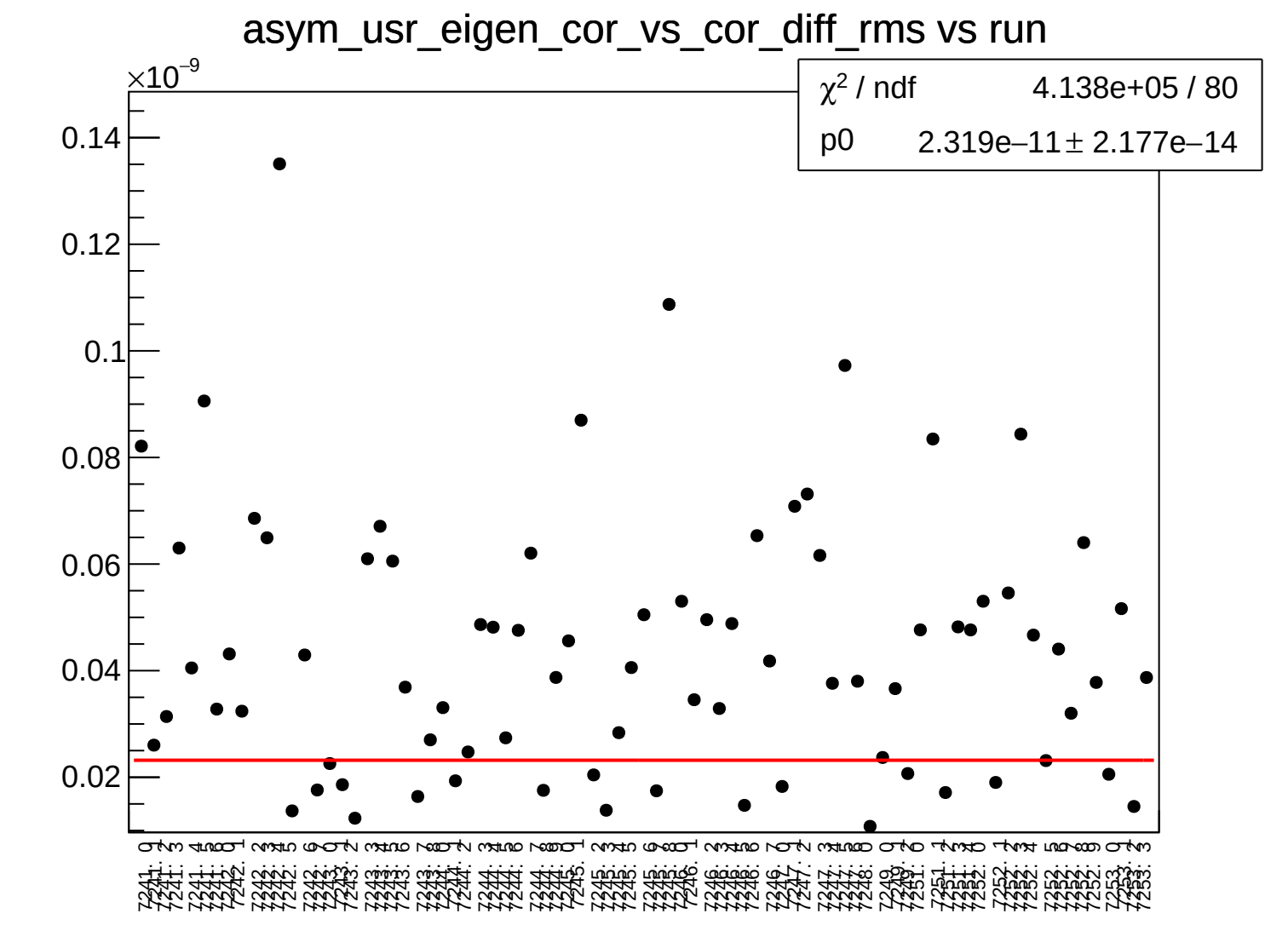

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 85.86 / 80
p0 −0.1034 ± 0.1203
pull
Entries 81
Mean 56.54
Std Dev 47.11

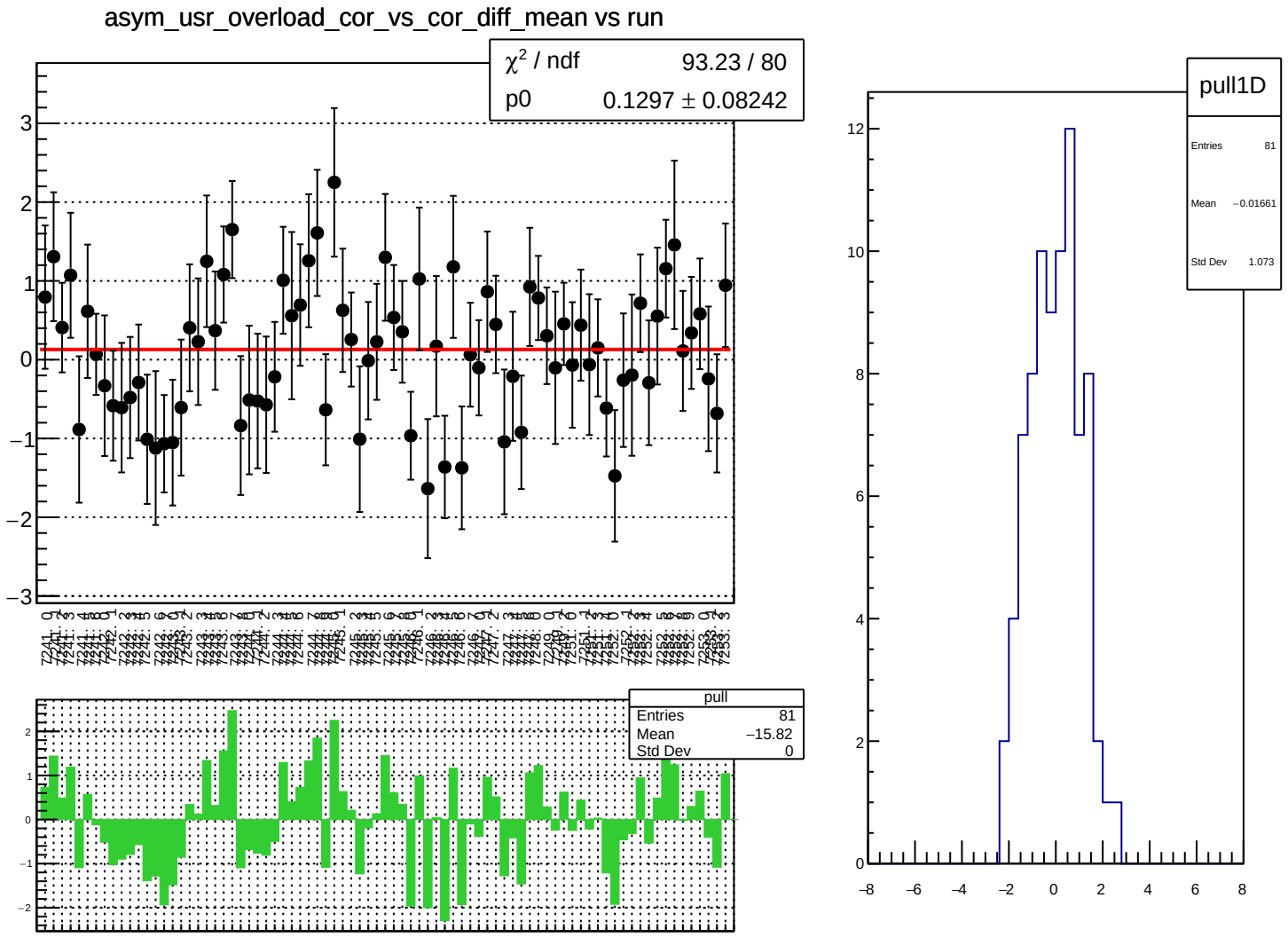

pull1D
Entries 81
Mean 0.01398
Std Dev 1.029

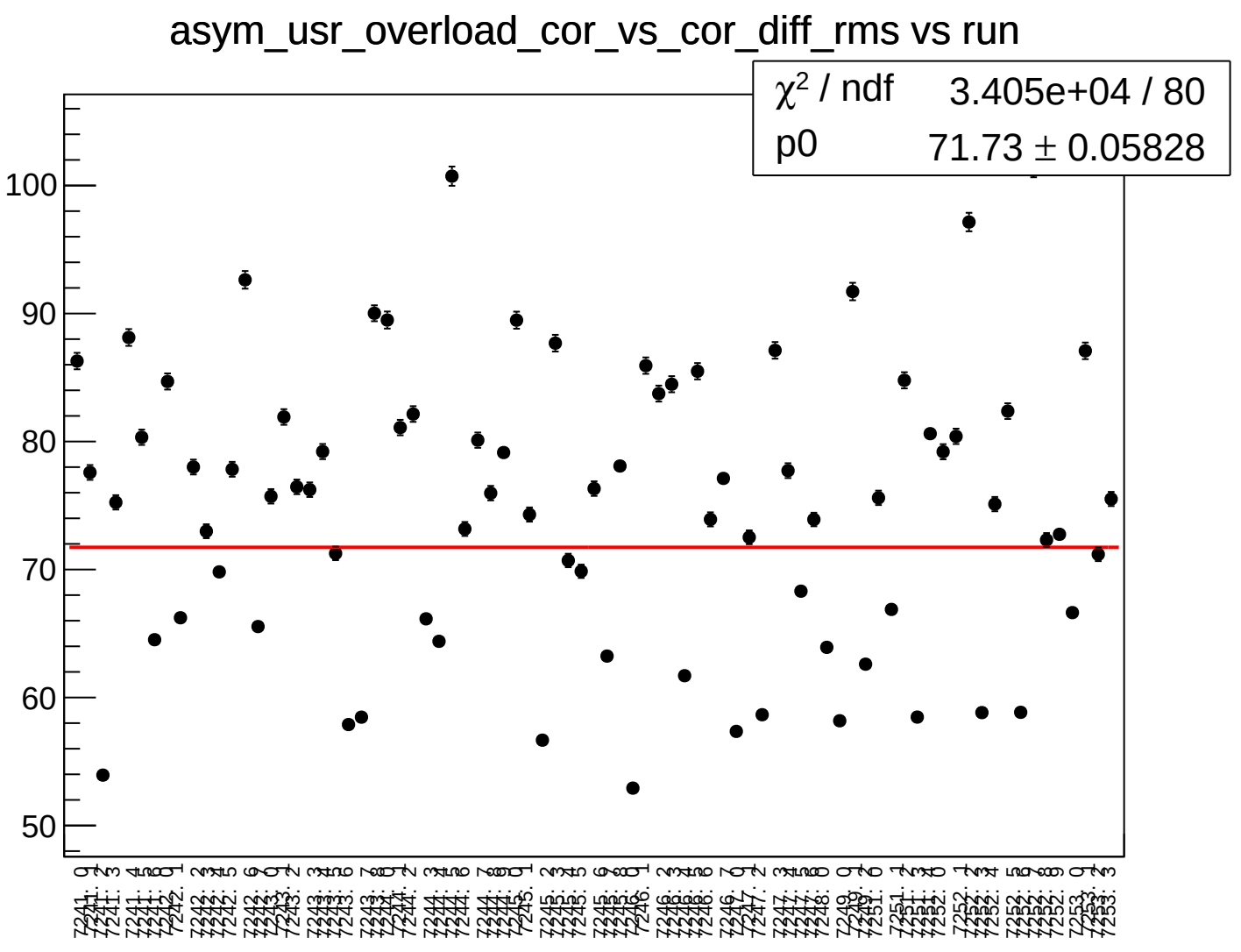

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.865e+04 / 80
p0 105.3 ± 0.08508
140
130
120
110
100
90
80

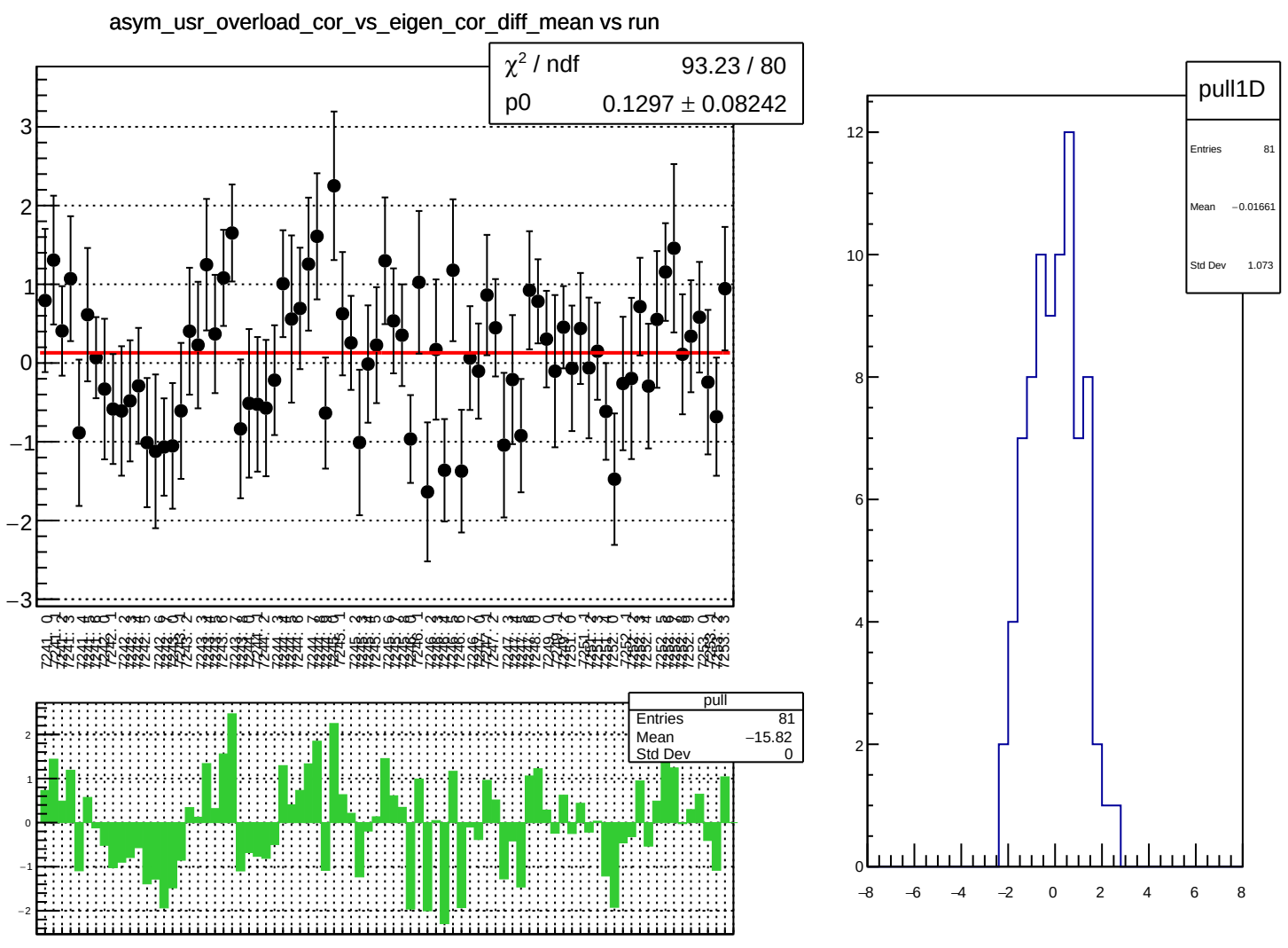

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.64 / 80
p0 −2.141e−14 ± 3.078e−14
pull
Entries 81
Mean 67
Std Dev 0

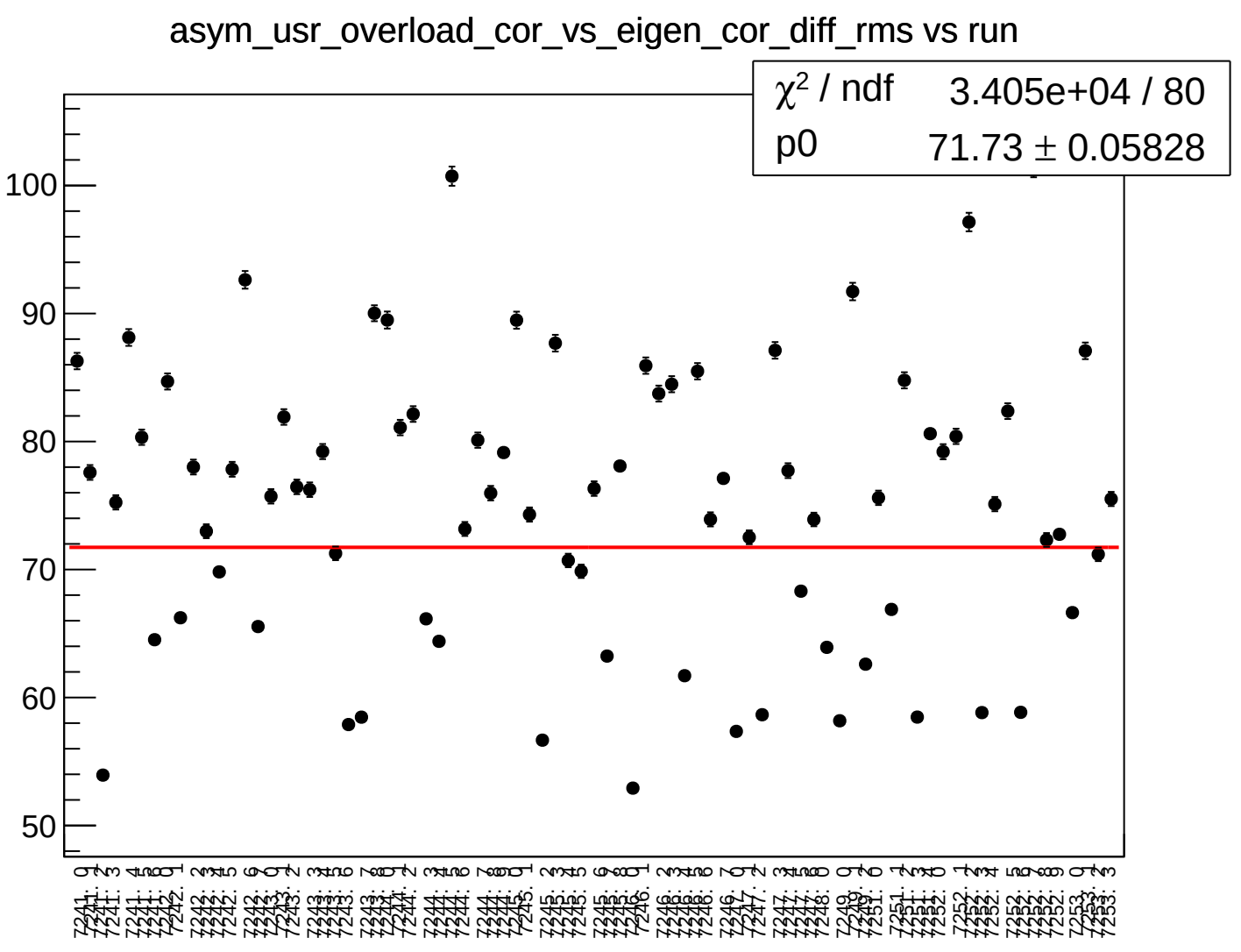

pull1D
Entries 81
Mean 0.04989
Std Dev 0.9587

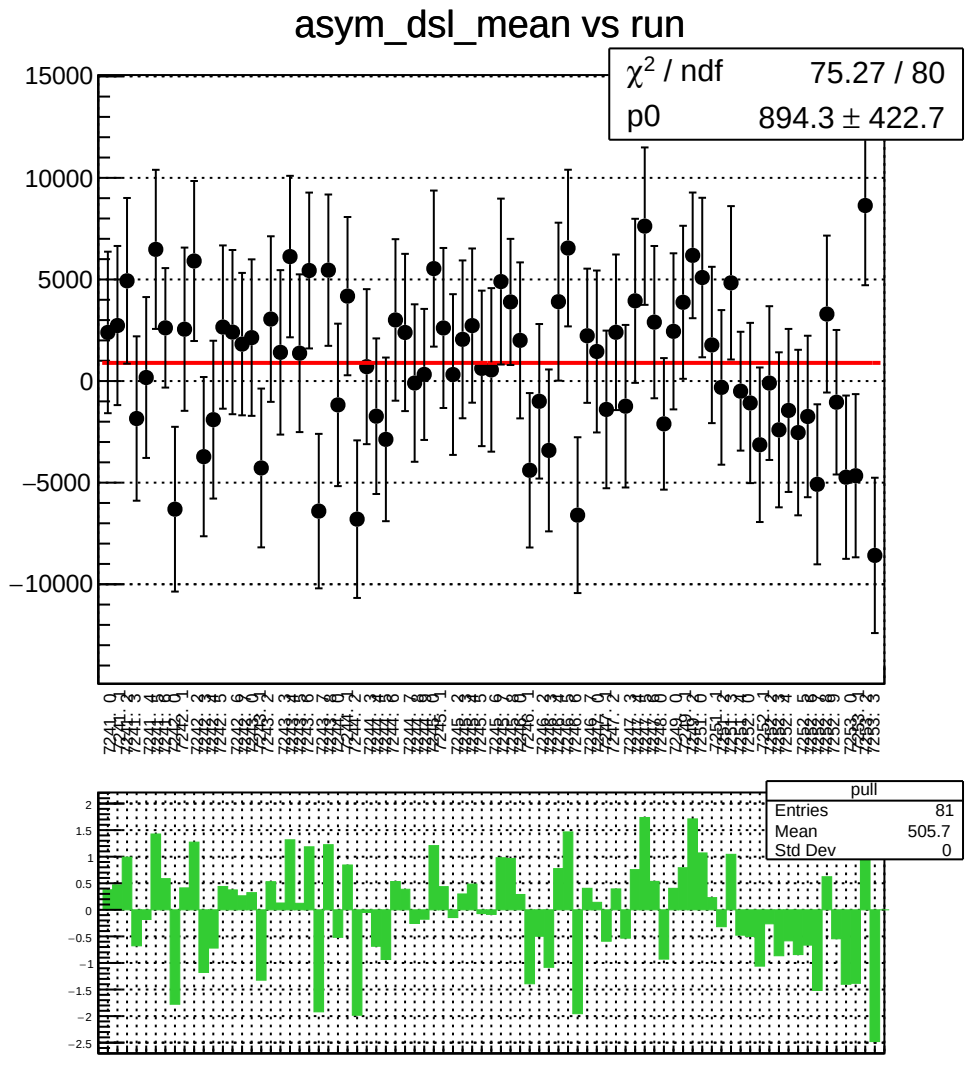

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.138e+05 / 80
p0 2.319e−11 ± 2.177e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

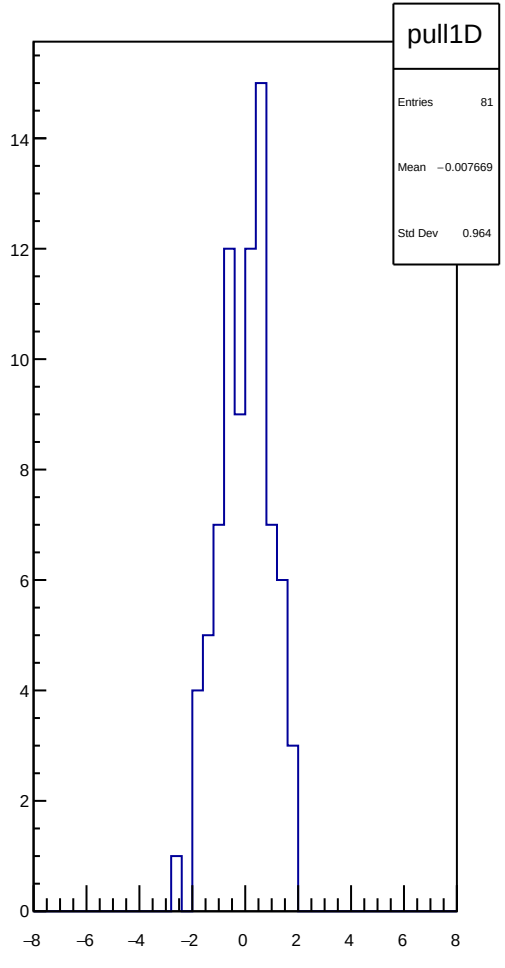

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 93.23 / 80
p0 0.1297 ± 0.08242
pull
Entries 81
Mean −15.82
Std Dev 0
pull1D
Entries 81
Mean −0.01661
Std Dev 1.073

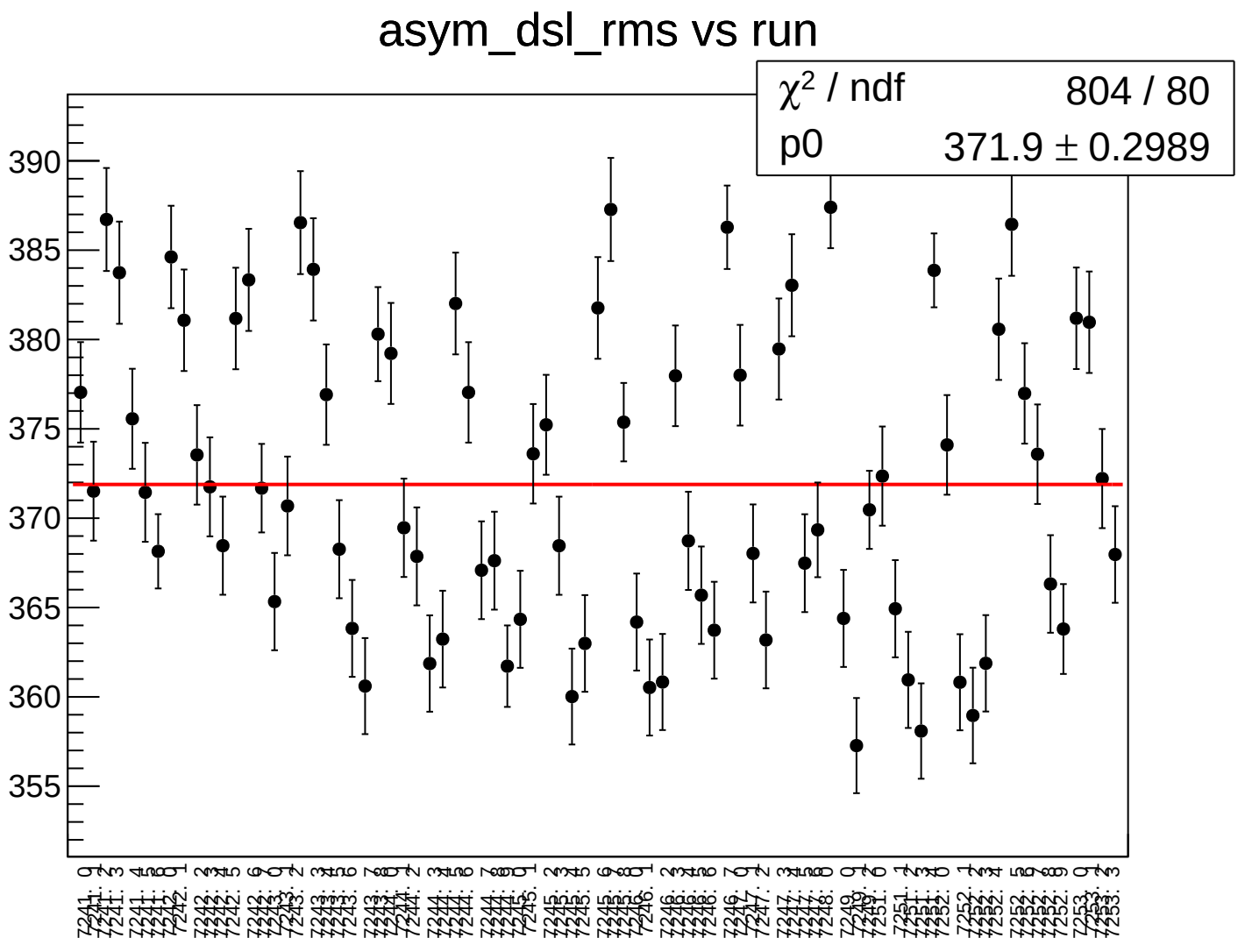

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 3.405e+04 / 80
p0 71.73 ± 0.05828
100
90
80
70
60
50

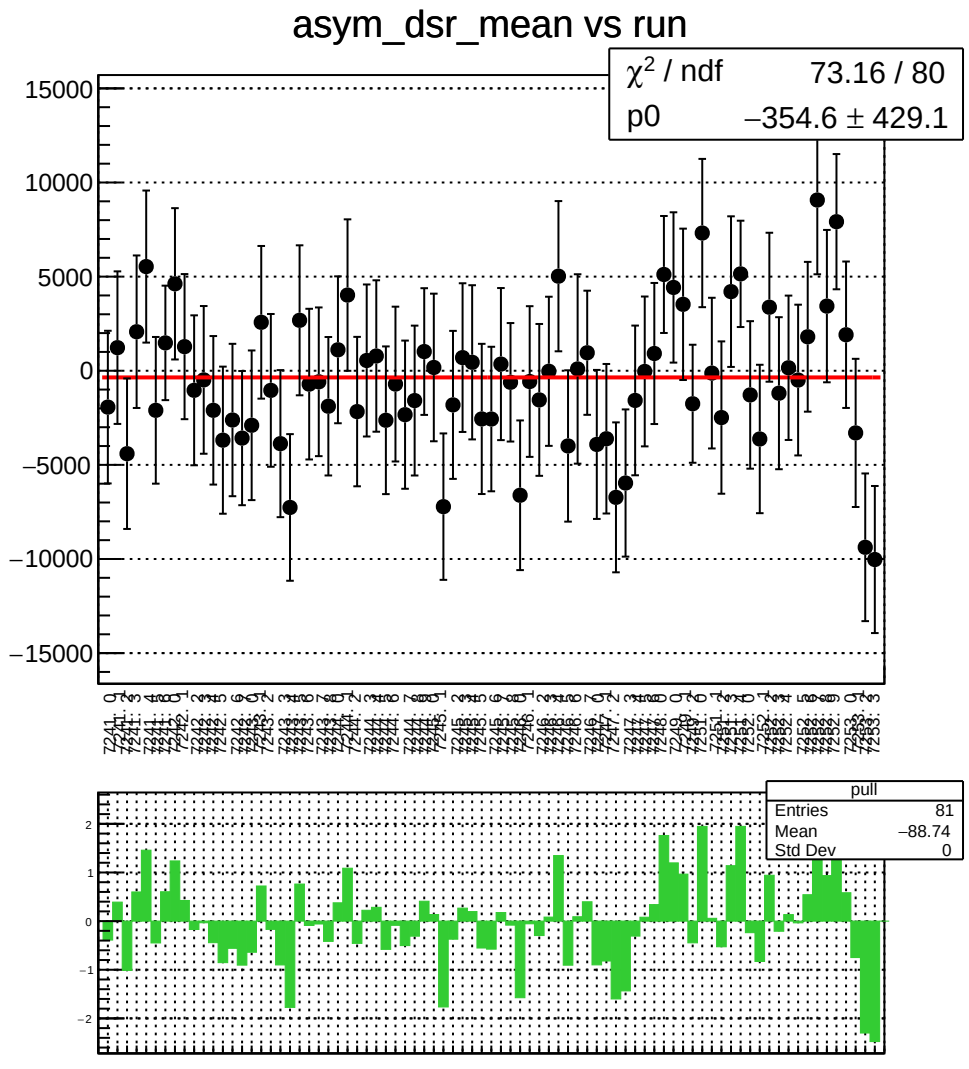

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.23 / 80
p0 0.1297 ± 0.08242
pull
Entries 81
Mean −15.82
Std Dev 0
pull1D
Entries 81
Mean −0.01661
Std Dev 1.073

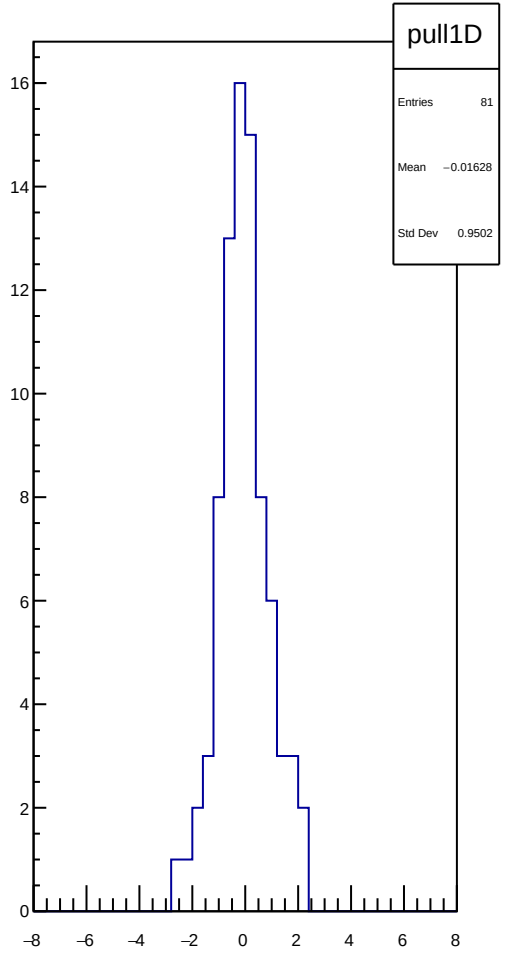

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.405e+04 / 80
p0 71.73 ± 0.05828
100
90
80
70
60
50

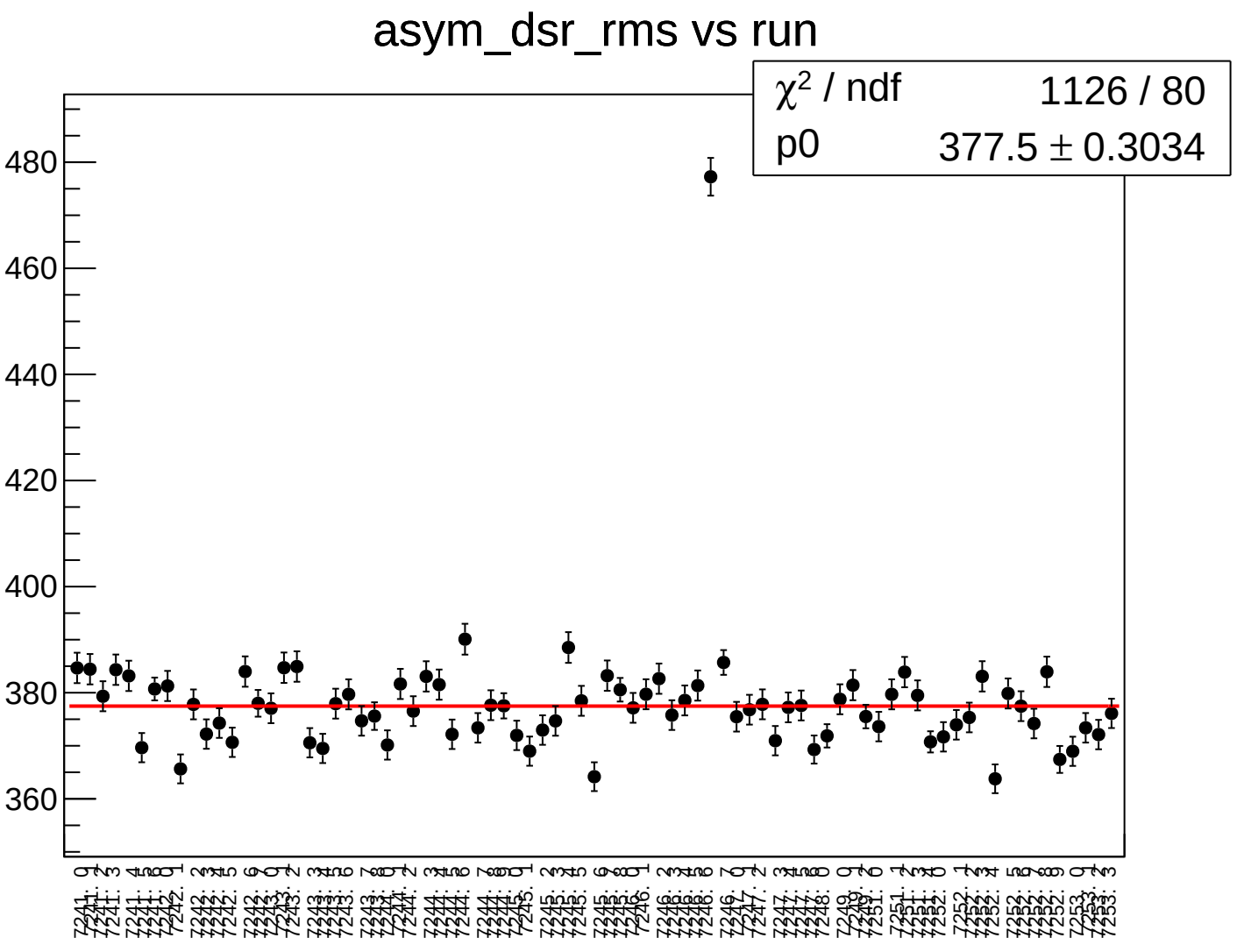

asym_dsl_mean vs run
χ² / ndf 75.27 / 80
p0 894.3 ± 422.7
15000
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 505.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

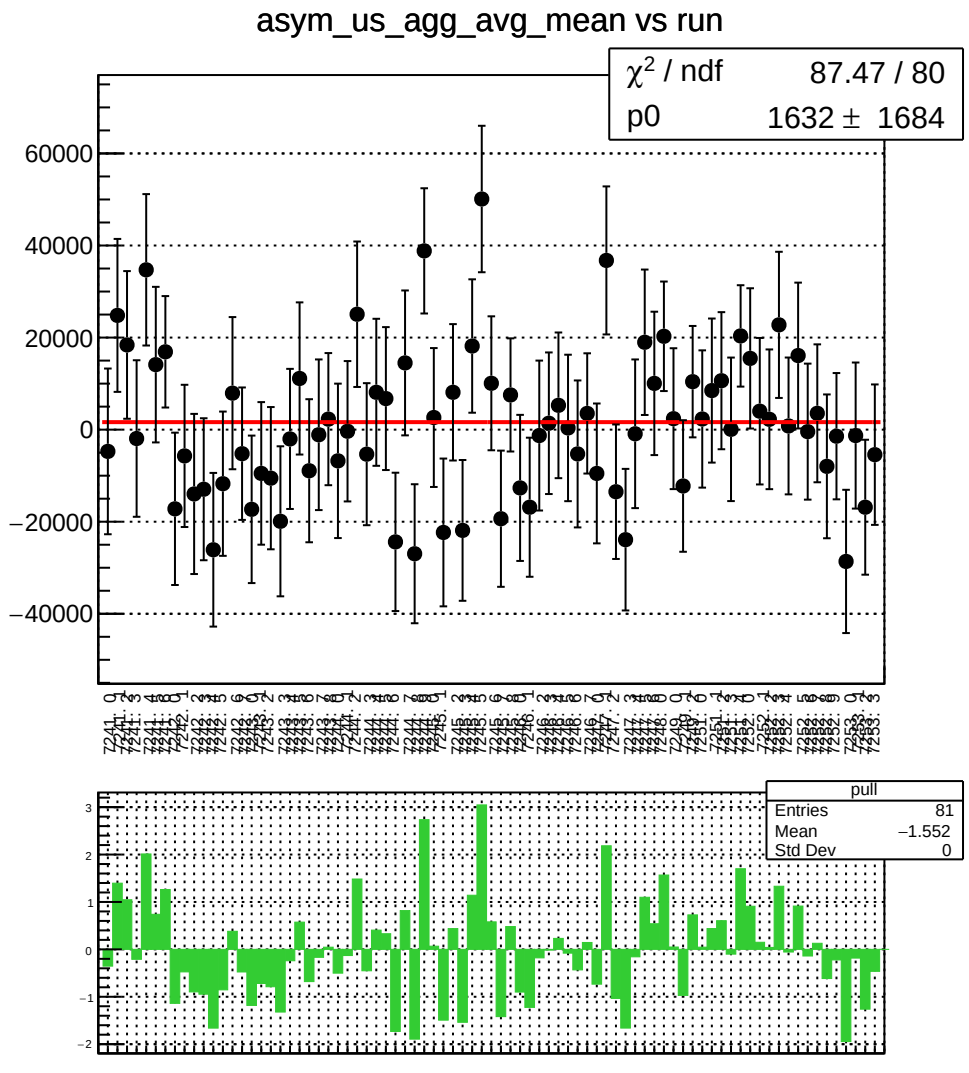

pull1D
Entries 81
Mean −0.007669
Std Dev 0.964
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

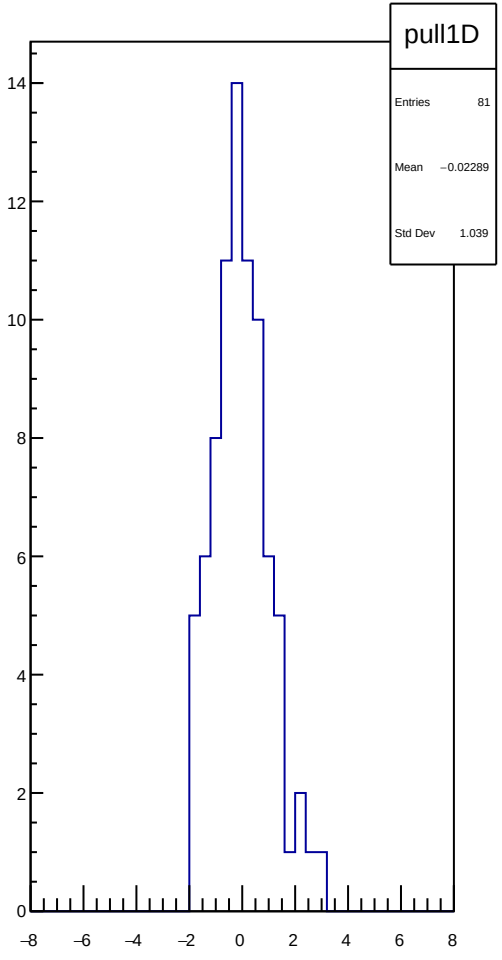

asym_dsl_rms vs run
χ² / ndf 804 / 80
p0 371.9 ± 0.2989
390
385
380
375
370
365
360
355

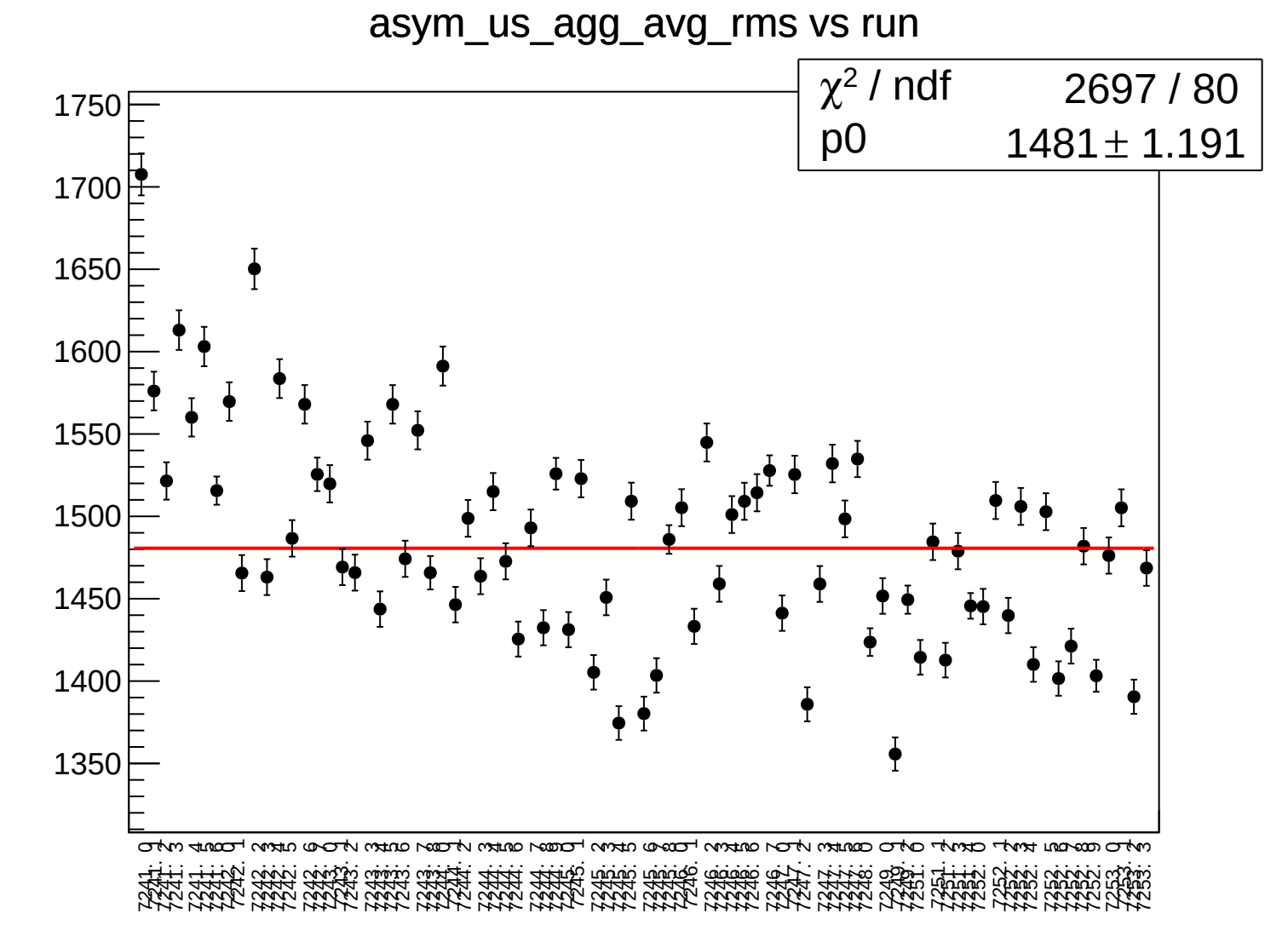

asym_dsr_mean vs run
χ² / ndf 73.16 / 80
p0 −354.6 ± 429.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean −88.74
Std Dev 0
2
1
0
−1
−2

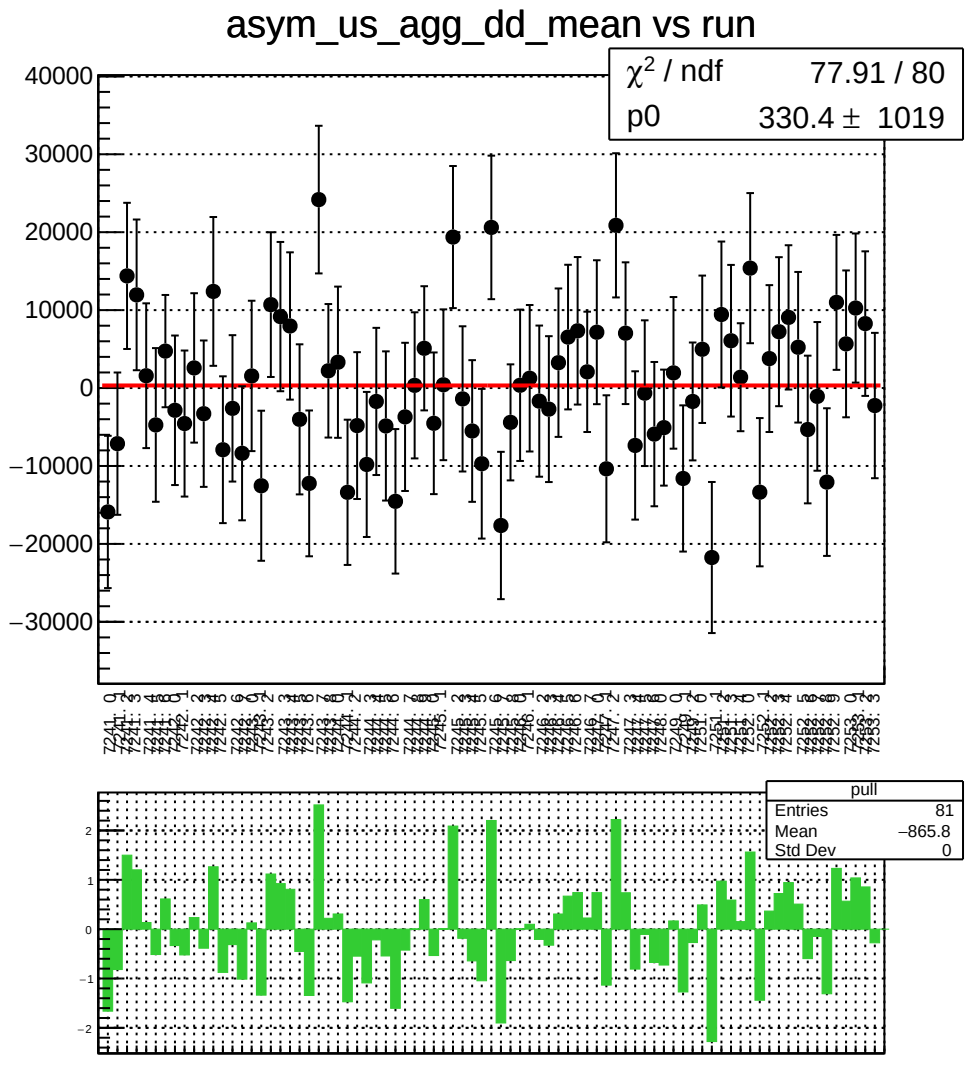

pull1D
Entries 81
Mean −0.01628
Std Dev 0.9502
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

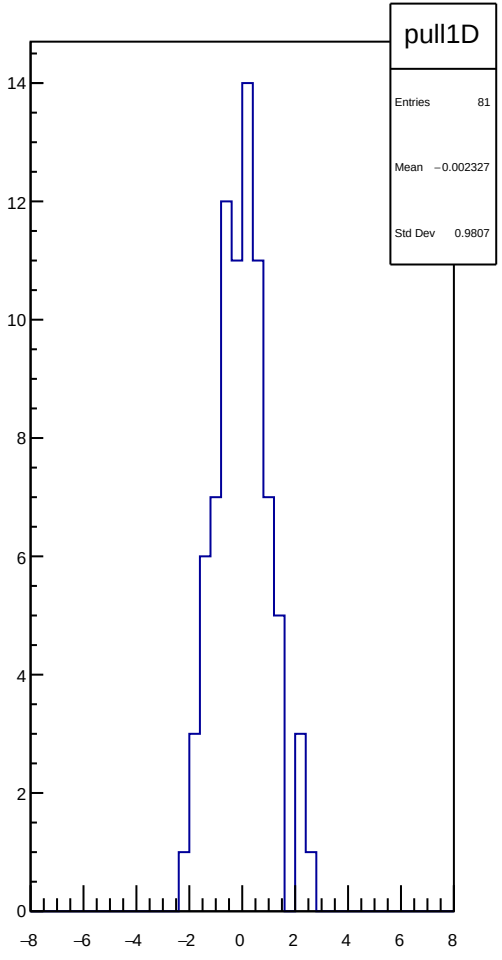

asym_dsr_rms vs run
χ^2 / ndf 1126 / 80
p0 377.5 ± 0.3034
480
460
440
420
400
380
360

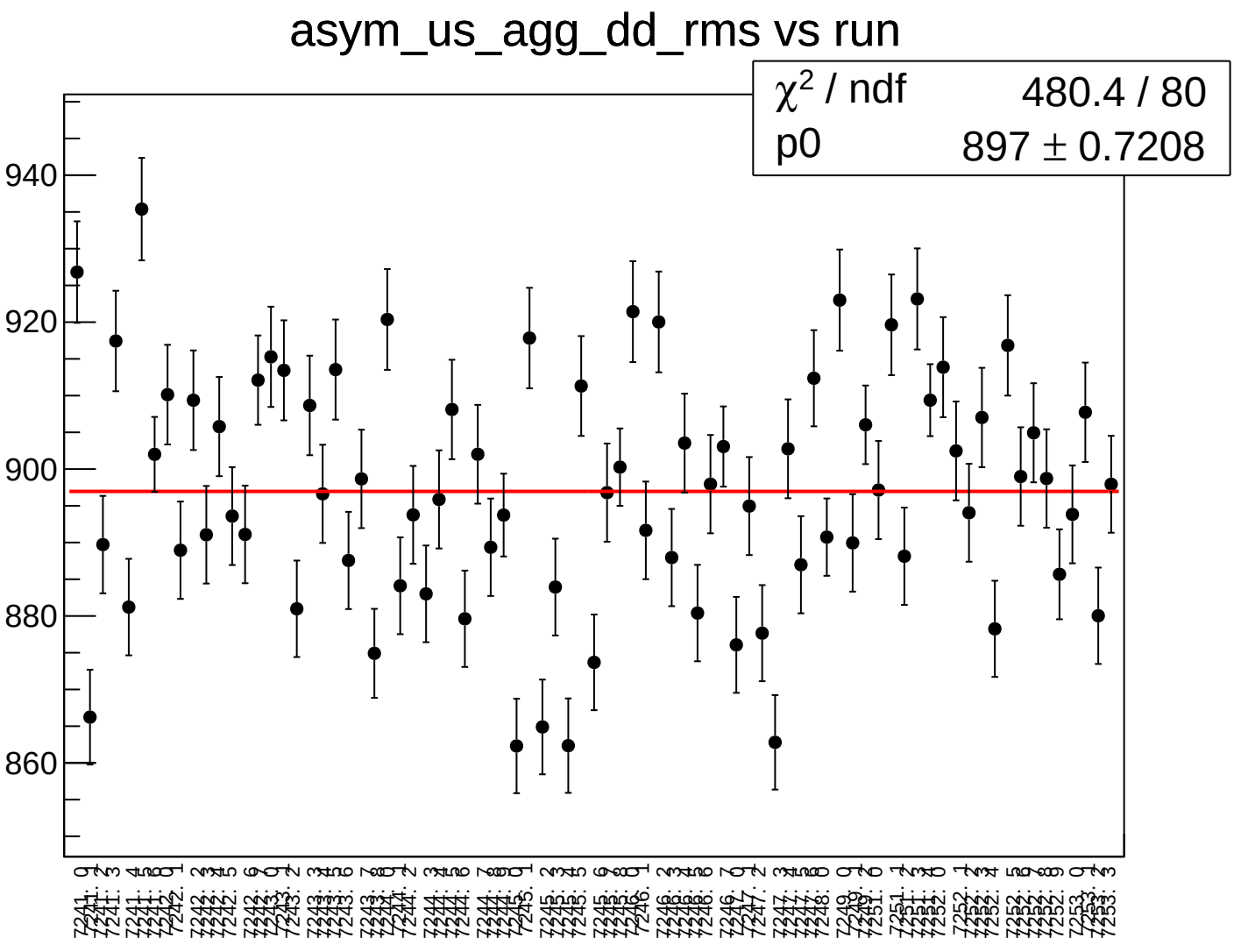

asym_us_agg_avg_mean vs run
χ² / ndf 87.47 / 80
p0 1632 ± 1684
pull
Entries 81
Mean −1.552
Std Dev 0

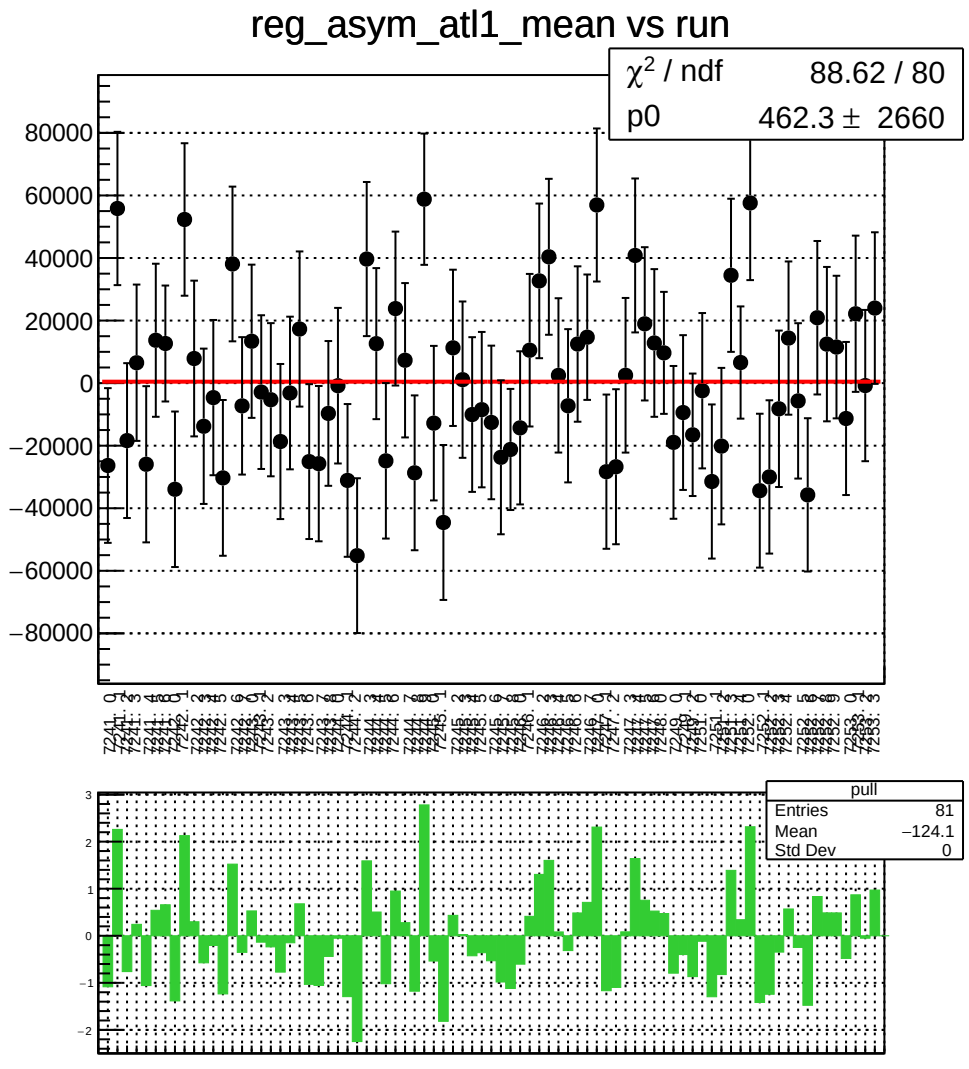

pull1D
Entries 81
Mean −0.02289
Std Dev 1.039

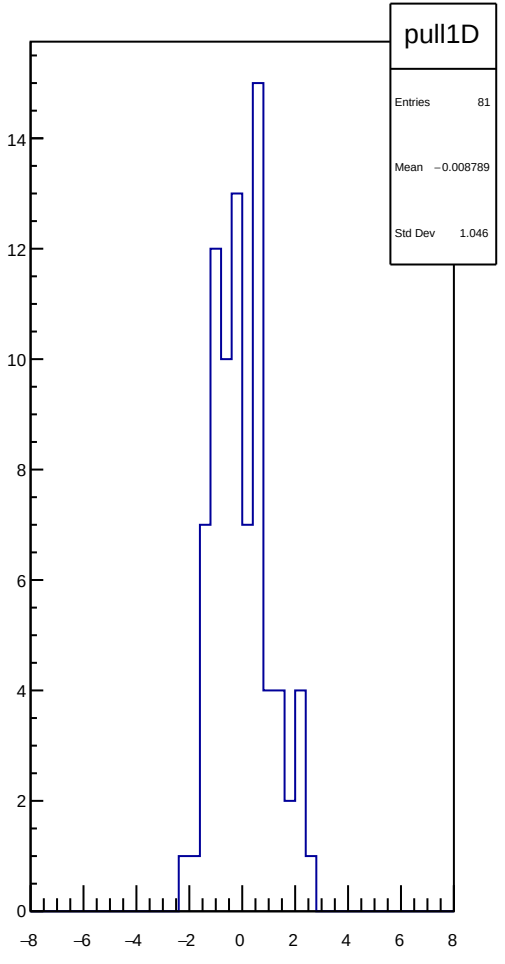

asym_us_agg_avg_rms vs run
χ² / ndf 2697 / 80
p0 1481 ± 1.191
1750
1700
1650
1600
1550
1500
1450
1400
1350

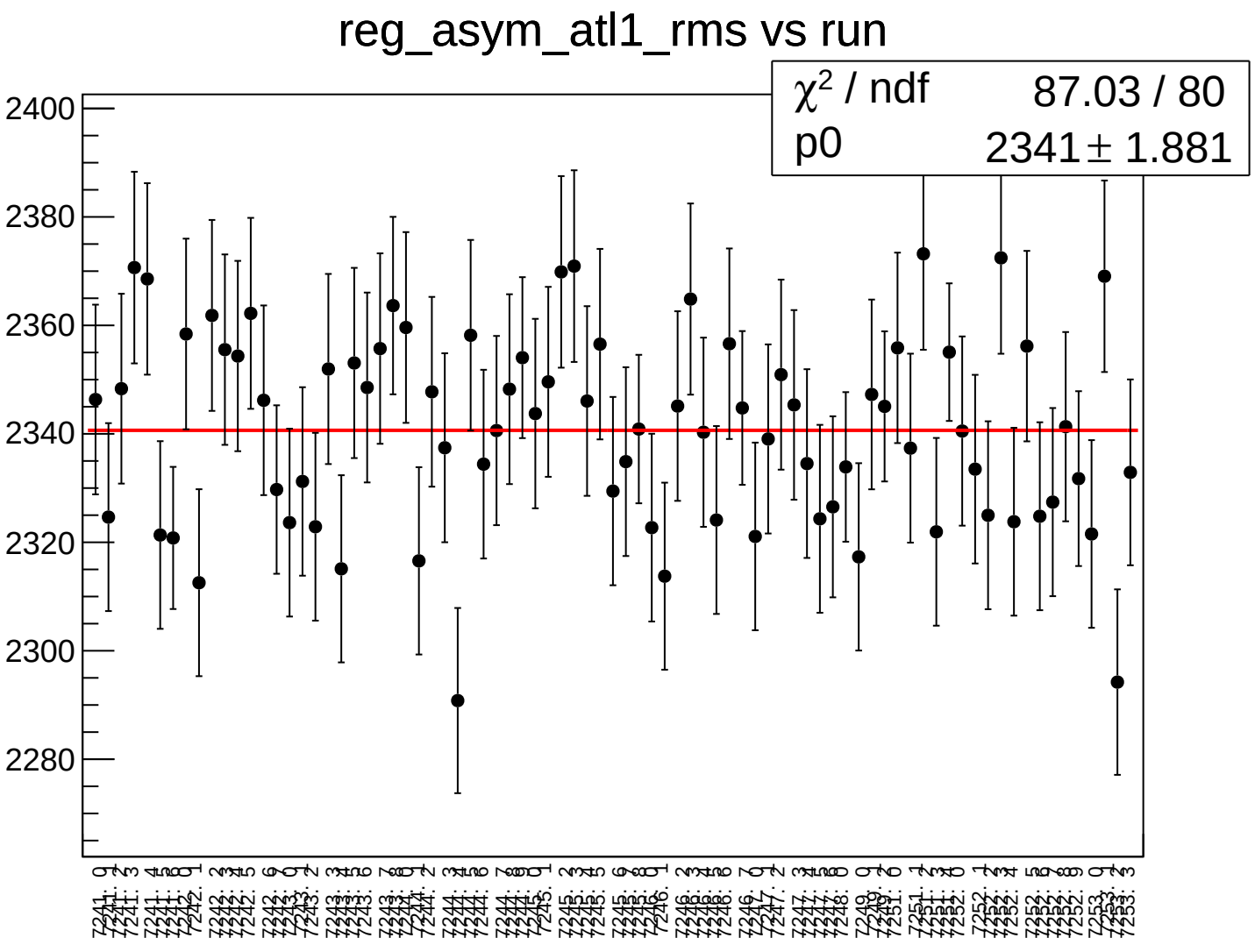

asym_us_agg_dd_mean vs run
χ² / ndf 77.91 / 80
p0 330.4 ± 1019
pull
Entries 81
Mean −865.8
Std Dev 0

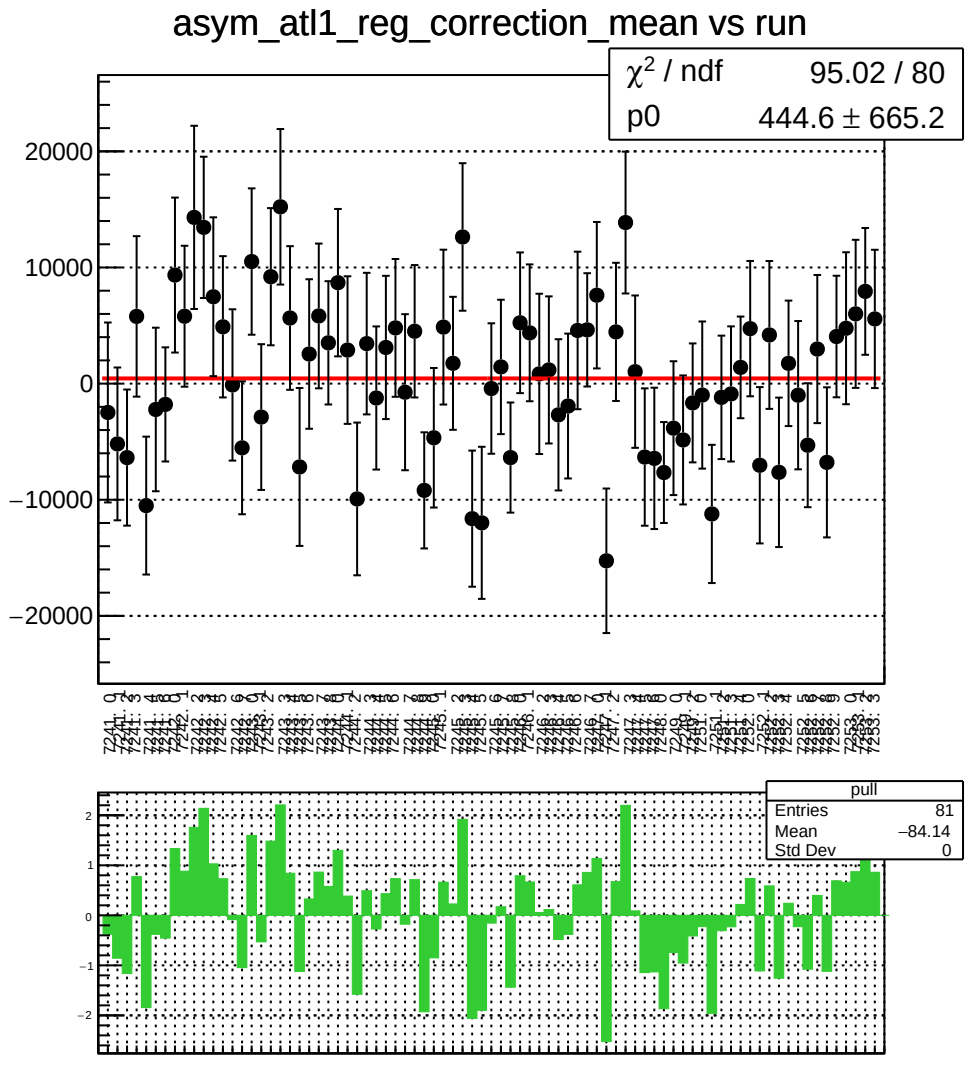

pull1D
Entries 81
Mean −0.002327
Std Dev 0.9807

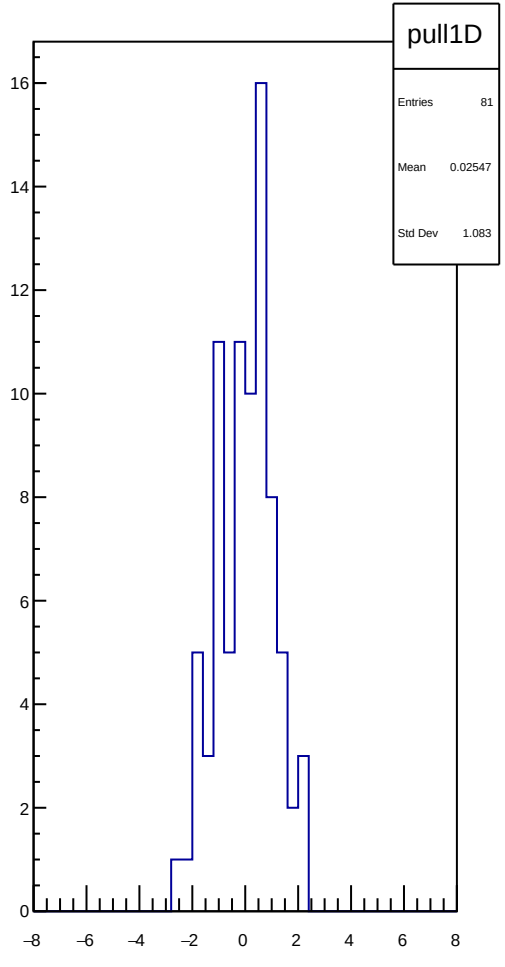

asym_us_agg_dd_rms vs run
χ² / ndf 480.4 / 80
p0 897 ± 0.7208
940
920
900
880
860

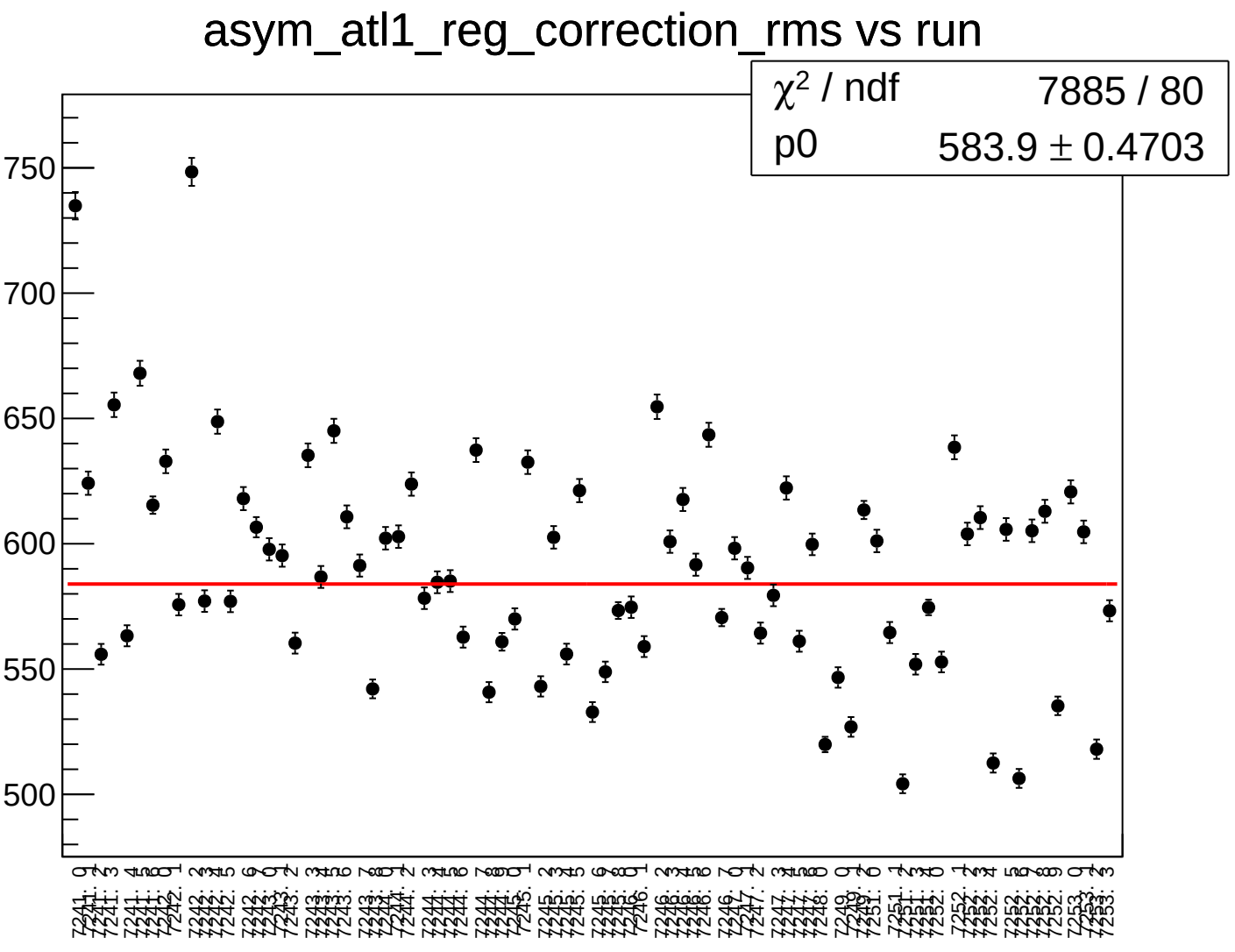

reg_asym_atl1_mean vs run
χ² / ndf 88.62 / 80
p0 462.3 ± 2660
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 81
Mean −124.1
Std Dev 0
3
2
1
0
−1
−2

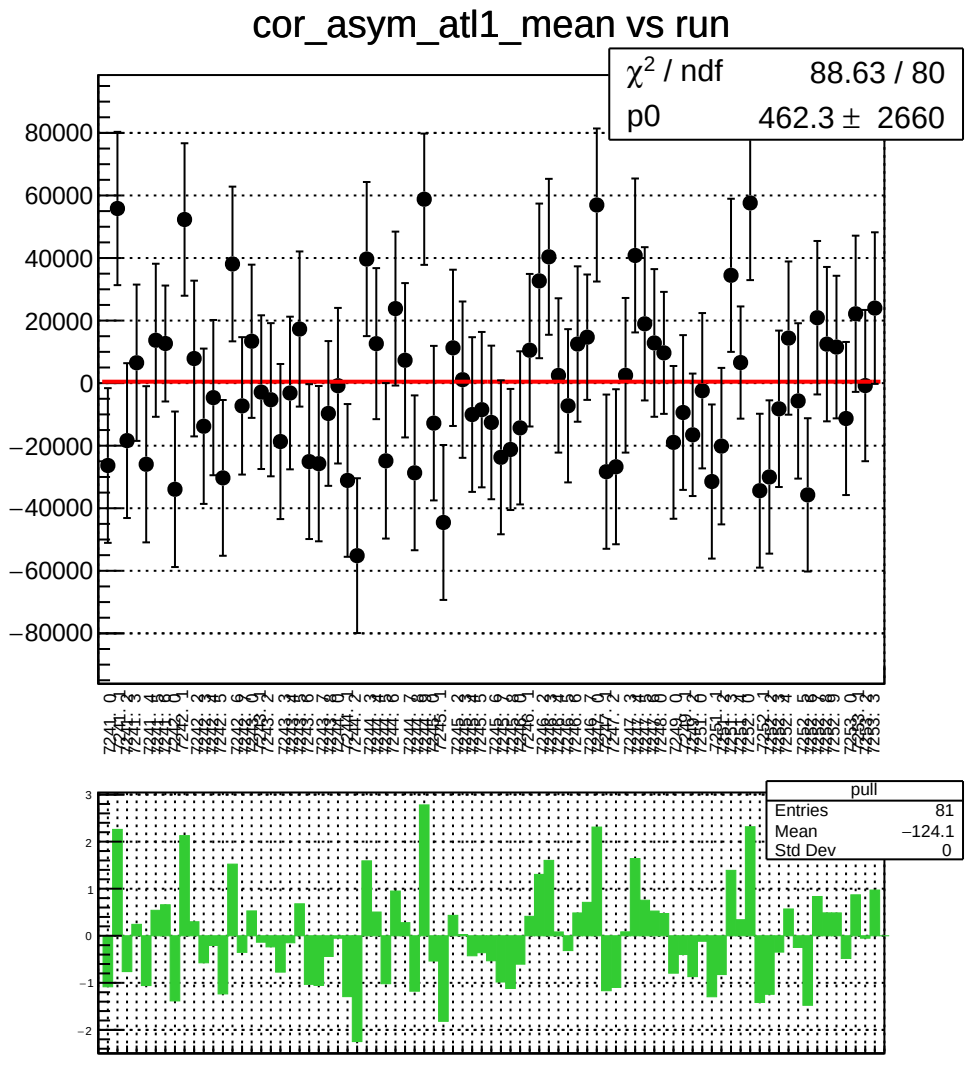

pull1D
Entries 81
Mean −0.008789
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

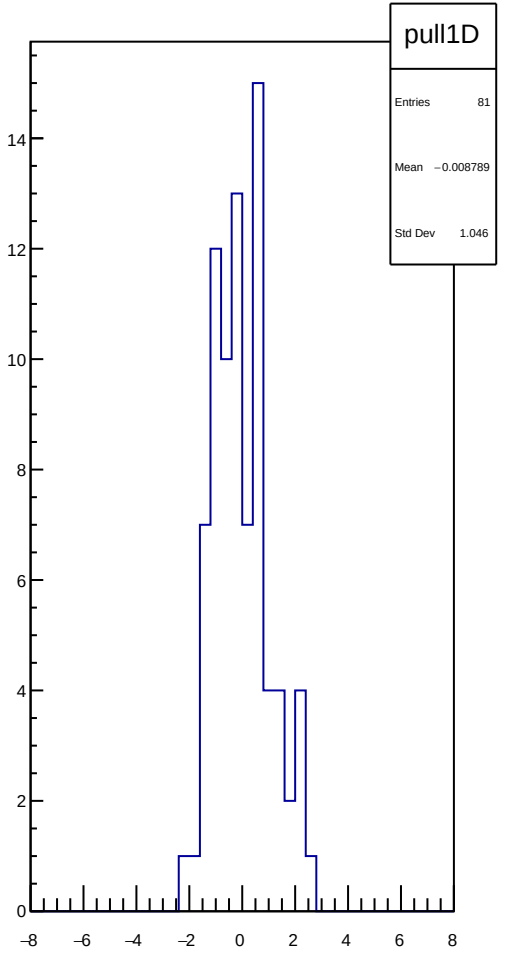

reg_asym_atl1_rms vs run
χ² / ndf 87.03 / 80
p0 2341 ± 1.881
2400
2380
2360
2340
2320
2300
2280

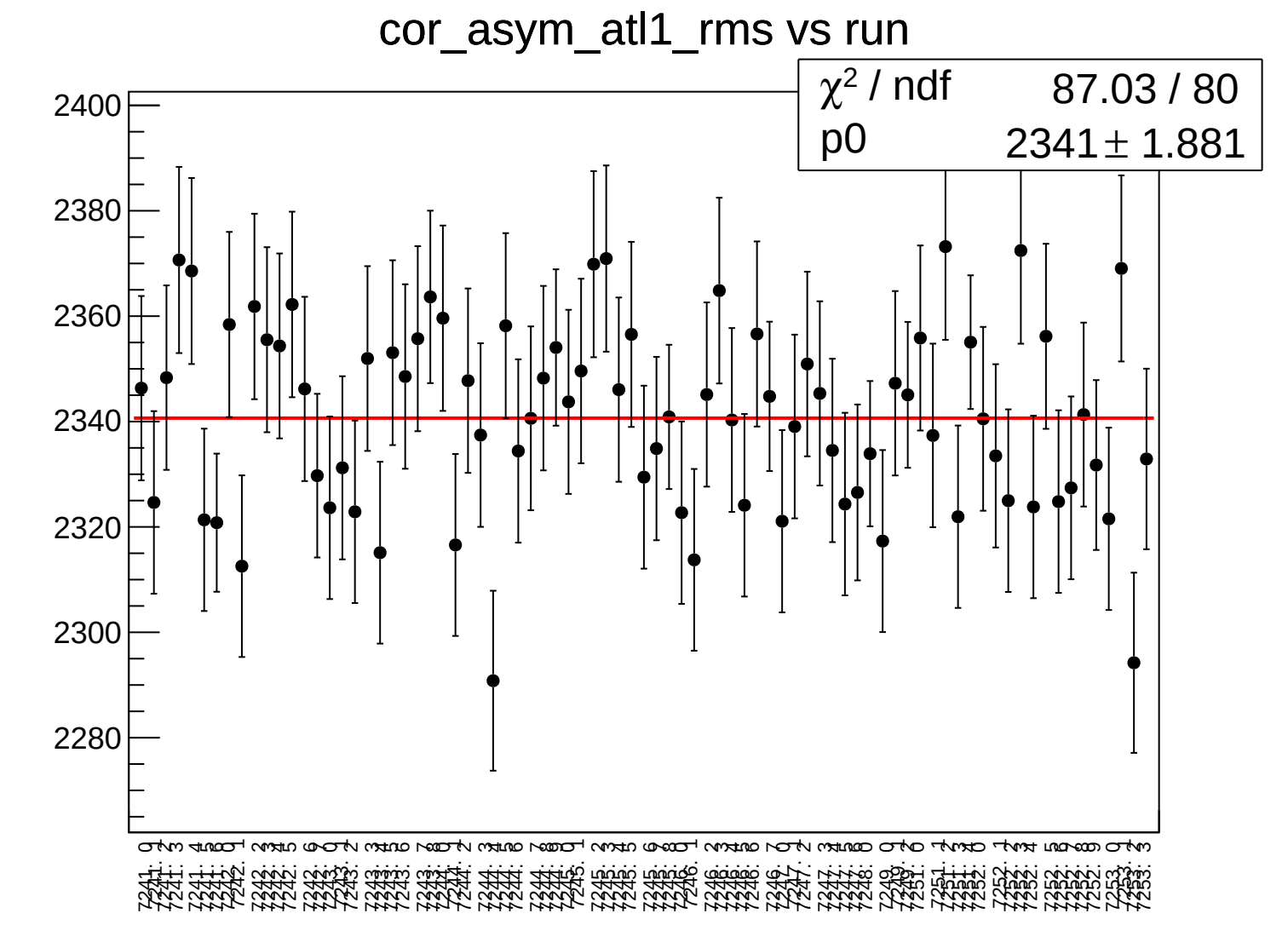

asym_atl1_reg_correction_mean vs run
χ² / ndf 95.02 / 80
p0 444.6 ± 665.2
20000
10000
0
−10000
−20000
pull
Entries 81
Mean −84.14
Std Dev 0
2
1
0
−1
−2

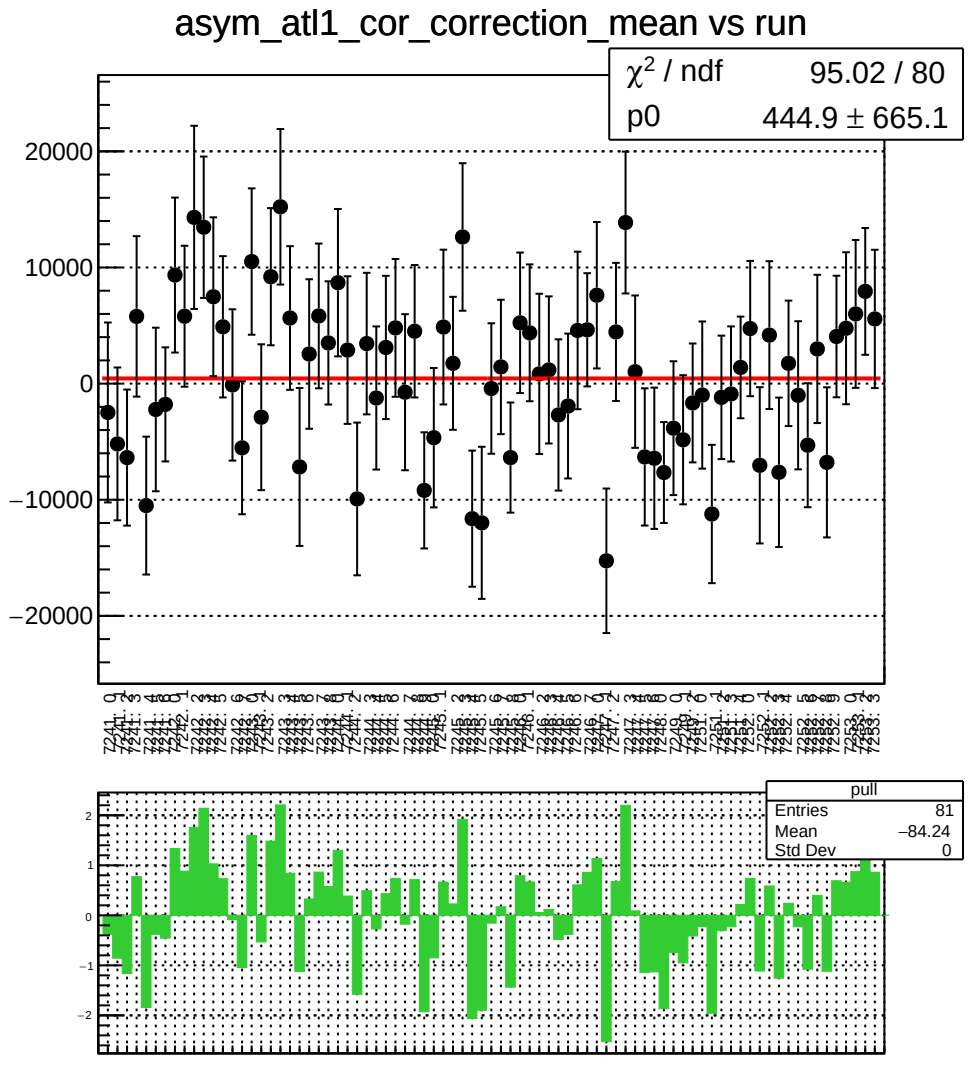

pull1D
Entries 81
Mean 0.02547
Std Dev 1.083
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

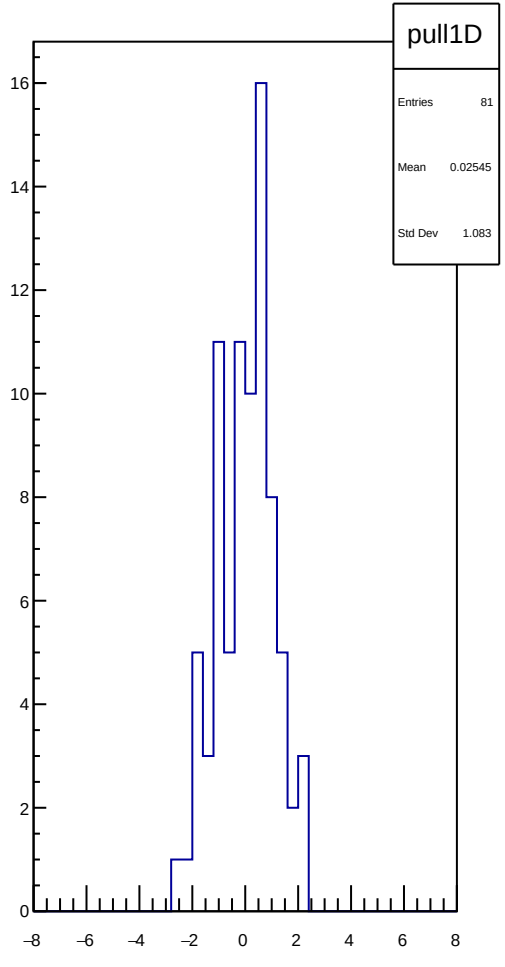

asym_atl1_reg_correction_rms vs run
χ² / ndf 7885 / 80
p0 583.9 ± 0.4703
750
700
650
600
550
500

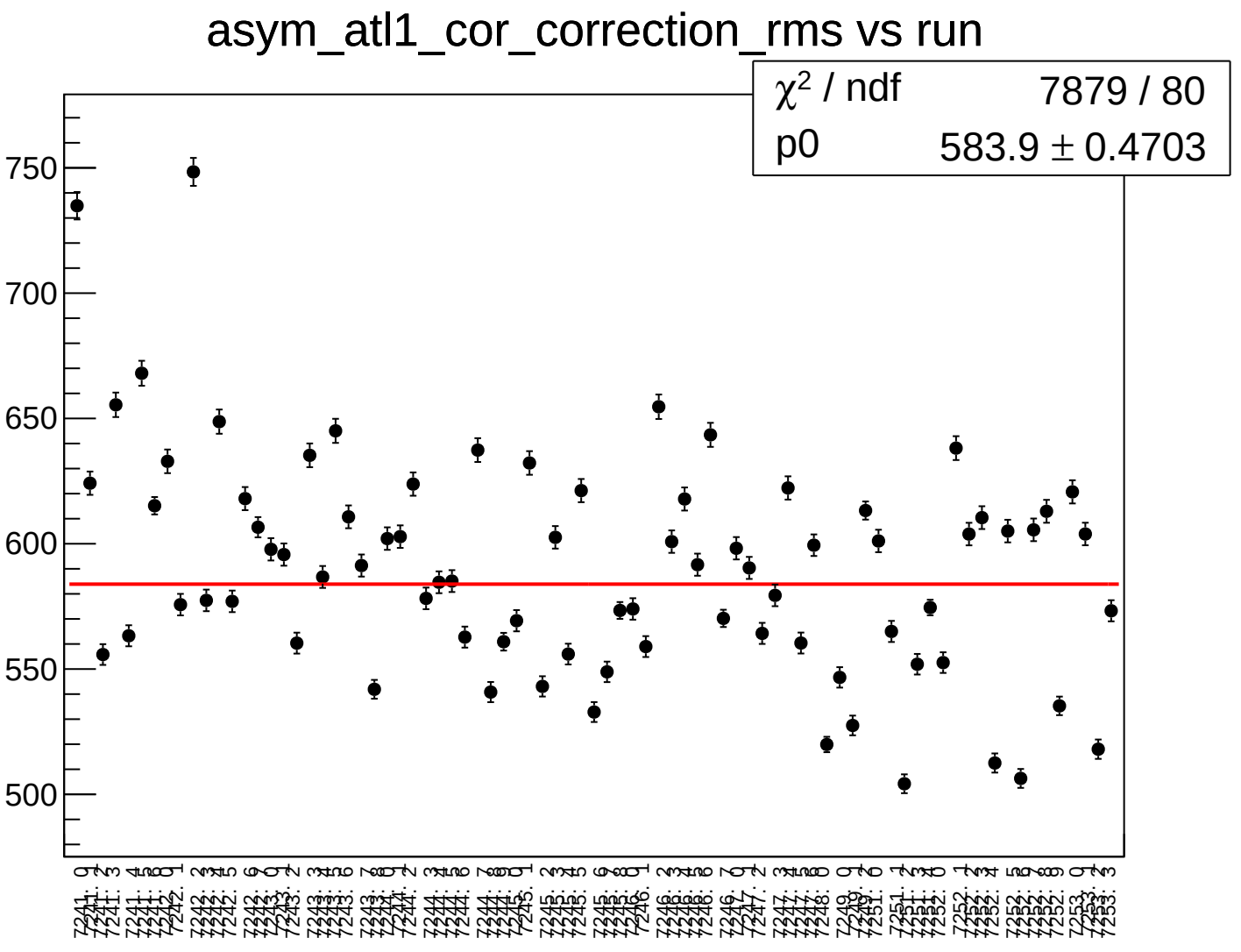

cor_asym_atl1_mean vs run
χ² / ndf 88.63 / 80
p0 462.3 ± 2660
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 81
Mean −124.1
Std Dev 0
3
2
1
0
−1
−2

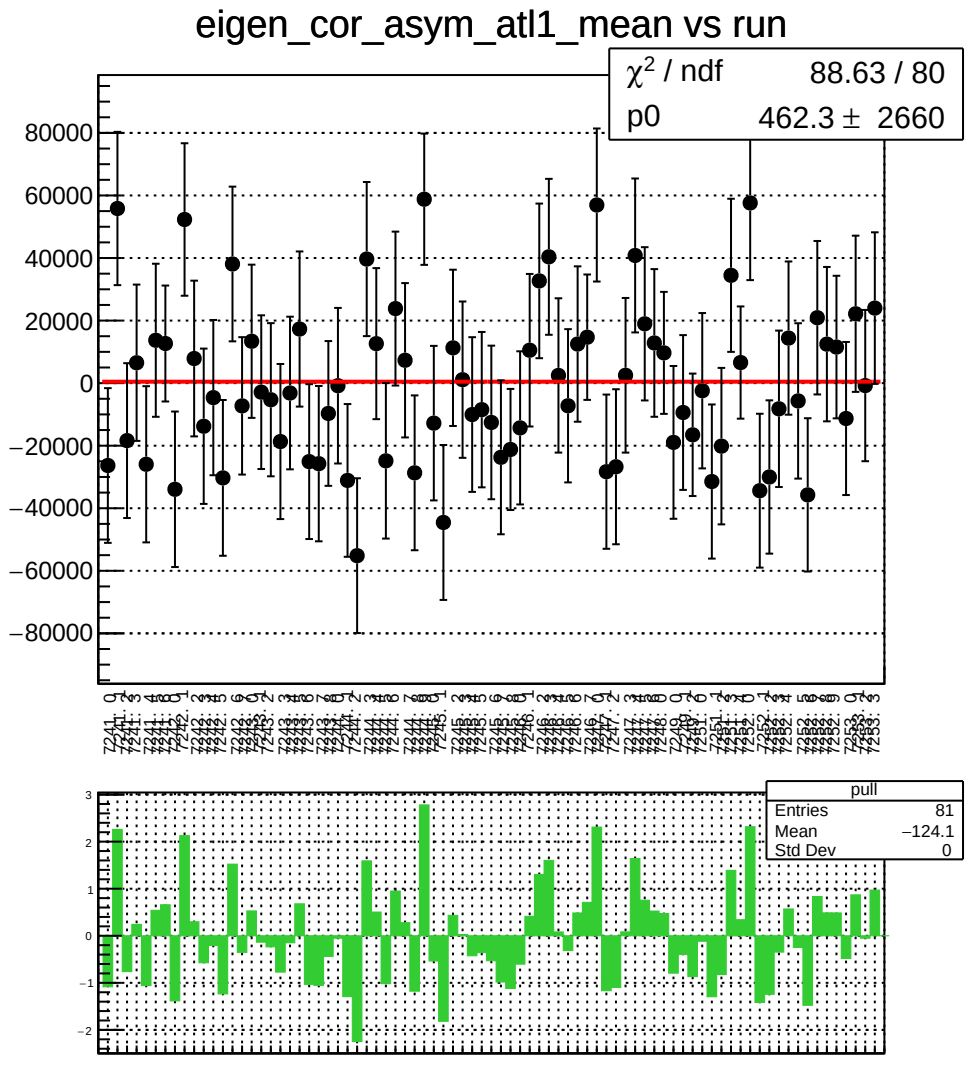

pull1D
Entries 81
Mean −0.008789
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

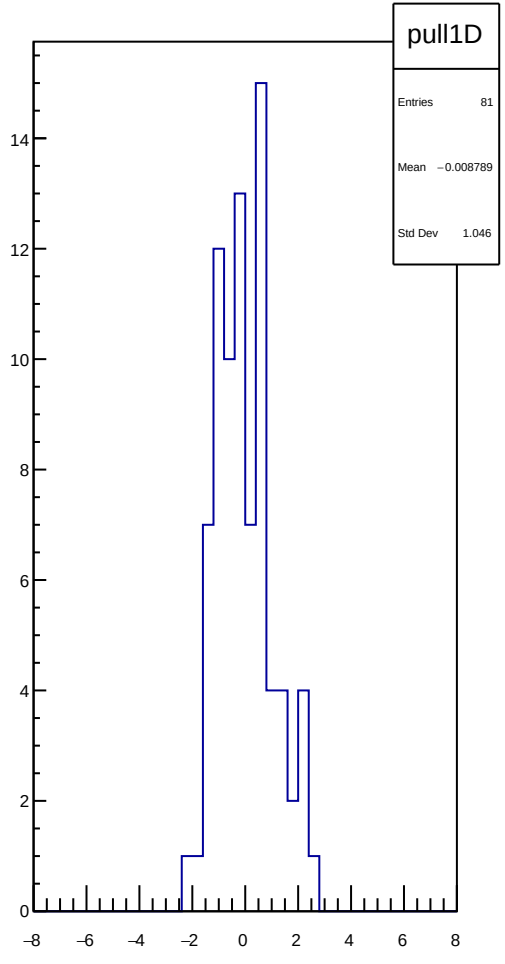

cor_asym_atl1_rms vs run
χ² / ndf 87.03 / 80
p0 2341 ± 1.881
2400
2380
2360
2340
2320
2300
2280

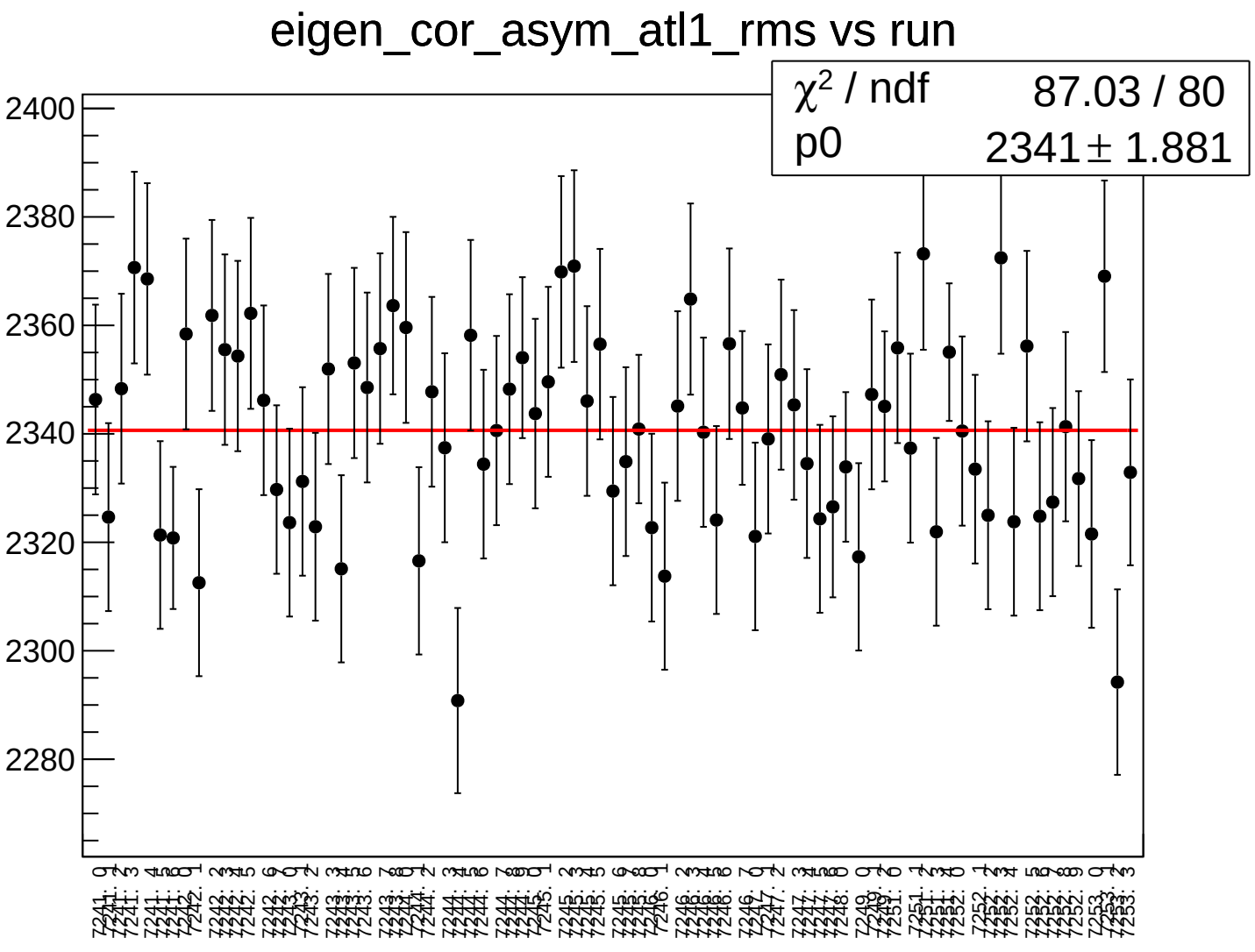

asym_atl1_cor_correction_mean vs run
χ² / ndf 95.02 / 80
p0 444.9 ± 665.1
20000
10000
0
−10000
−20000
pull
Entries 81
Mean −84.24
Std Dev 0
2
1
0
−1
−2

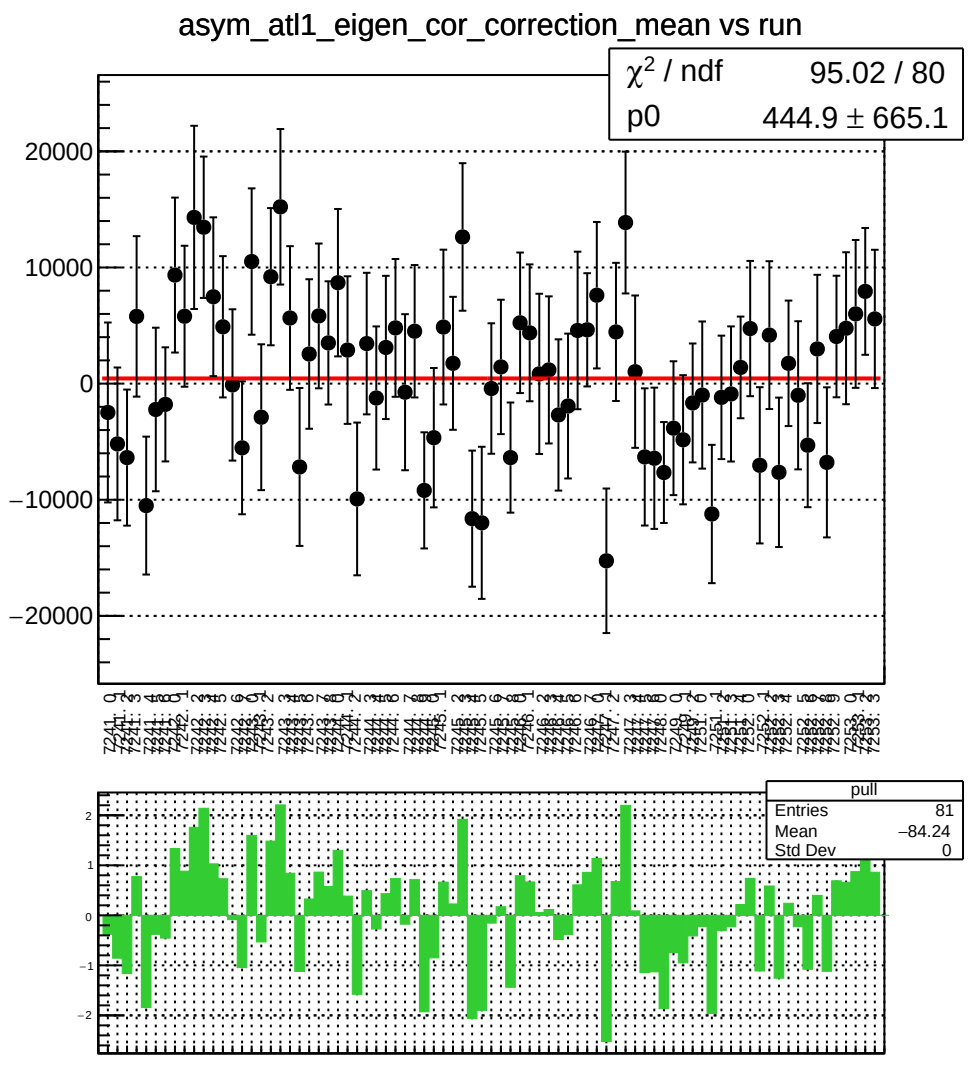

pull1D
Entries 81
Mean 0.02545
Std Dev 1.083
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

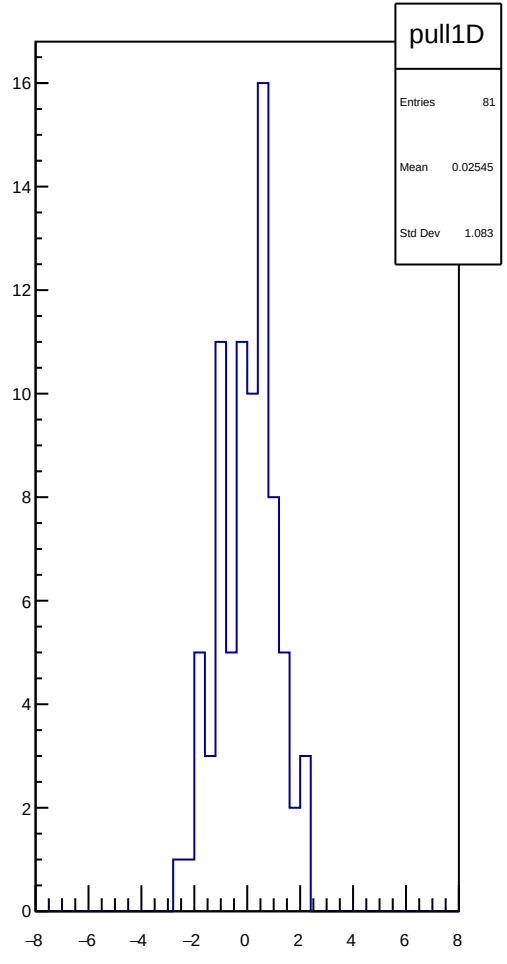

asym_atl1_cor_correction_rms vs run
χ² / ndf 7879 / 80
p0 583.9 ± 0.4703
750
700
650
600
550
500

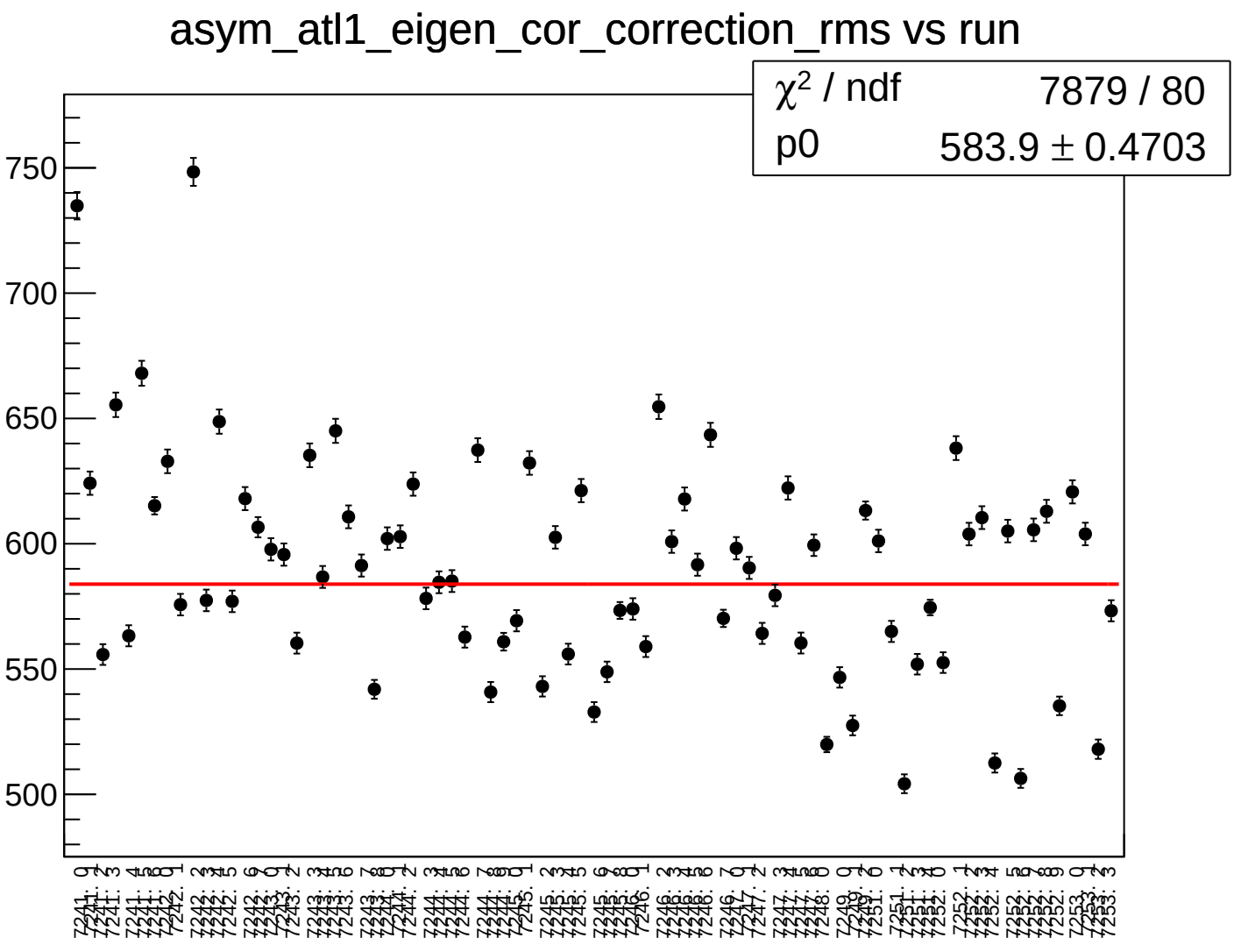

eigen_cor_asym_atl1_mean vs run
χ² / ndf 88.63 / 80
p0 462.3 ± 2660
pull
Entries 81
Mean −124.1
Std Dev 0

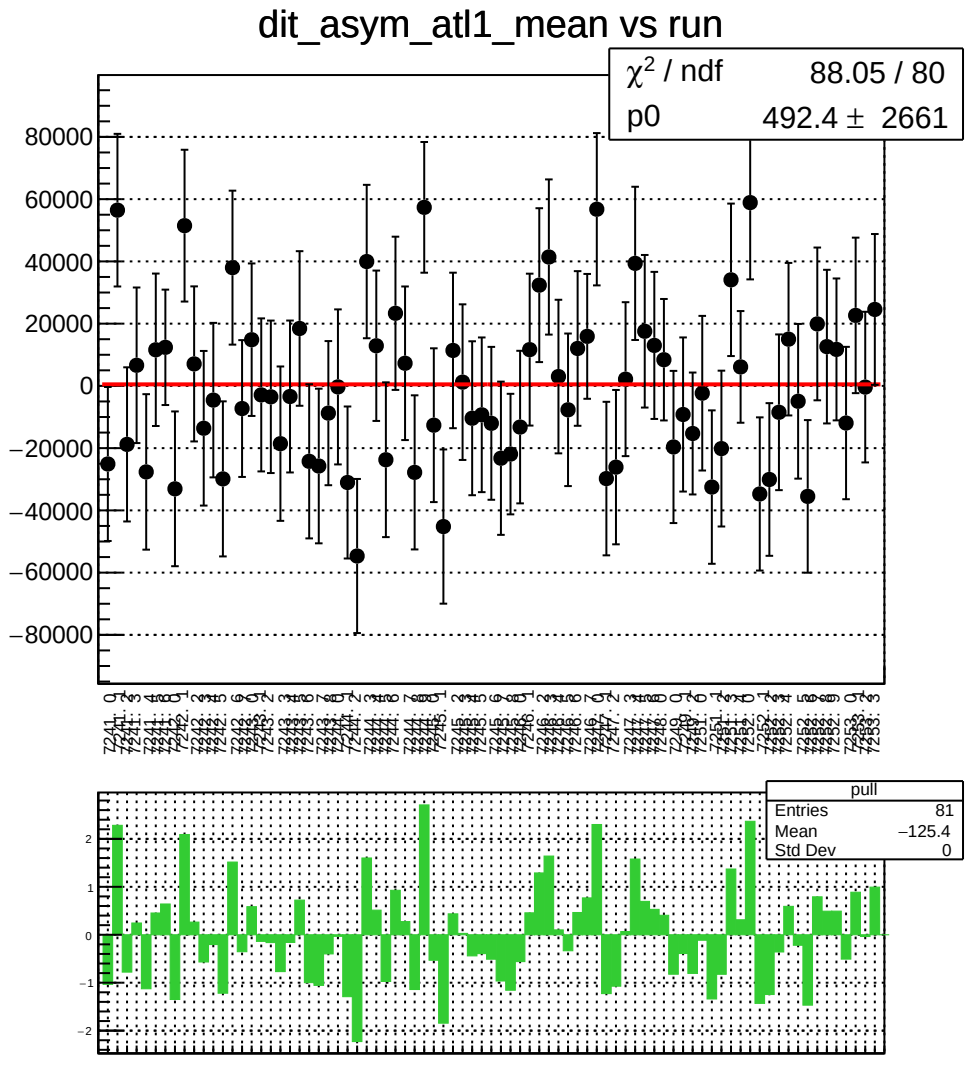

pull1D
Entries 81
Mean −0.008789
Std Dev 1.046

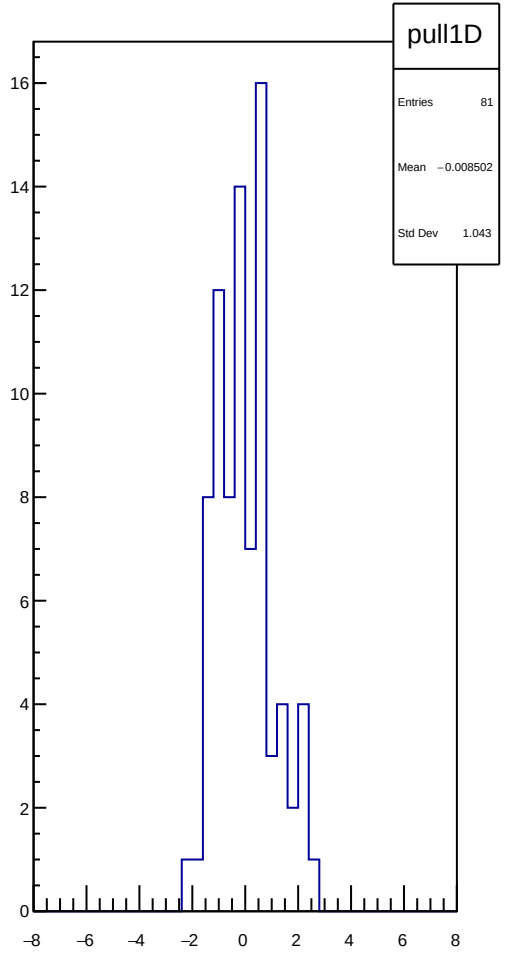

eigen_cor_asym_atl1_rms vs run
χ² / ndf 87.03 / 80
p0 2341 ± 1.881
2400
2380
2360
2340
2320
2300
2280

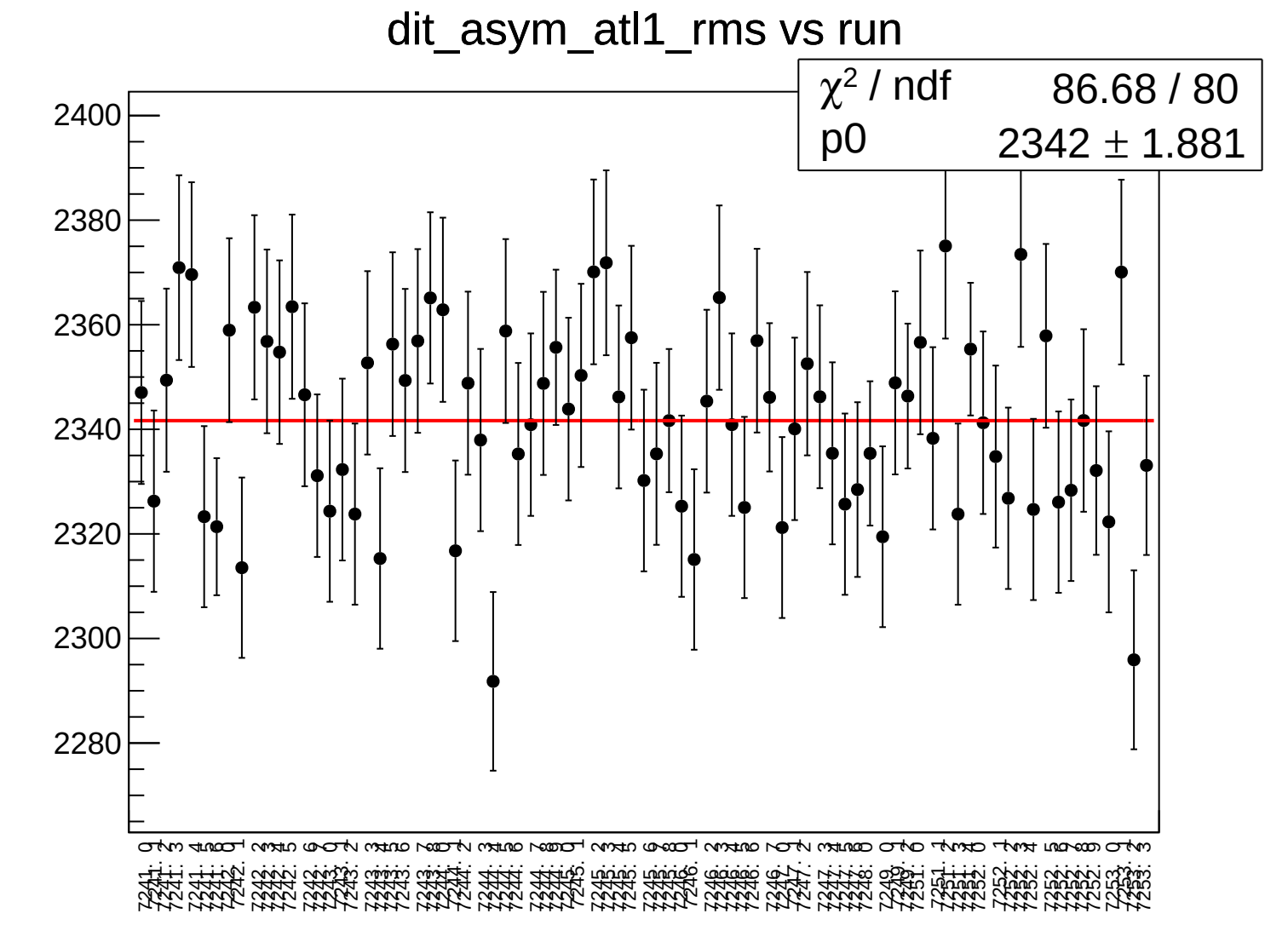

asym_atl1_eigen_cor_correction_mean vs run
χ² / ndf 95.02 / 80
p0 444.9 ± 665.1
20000
10000
0
−10000
−20000
pull
Entries 81
Mean −84.24
Std Dev 0
2
1
0
−1
−2

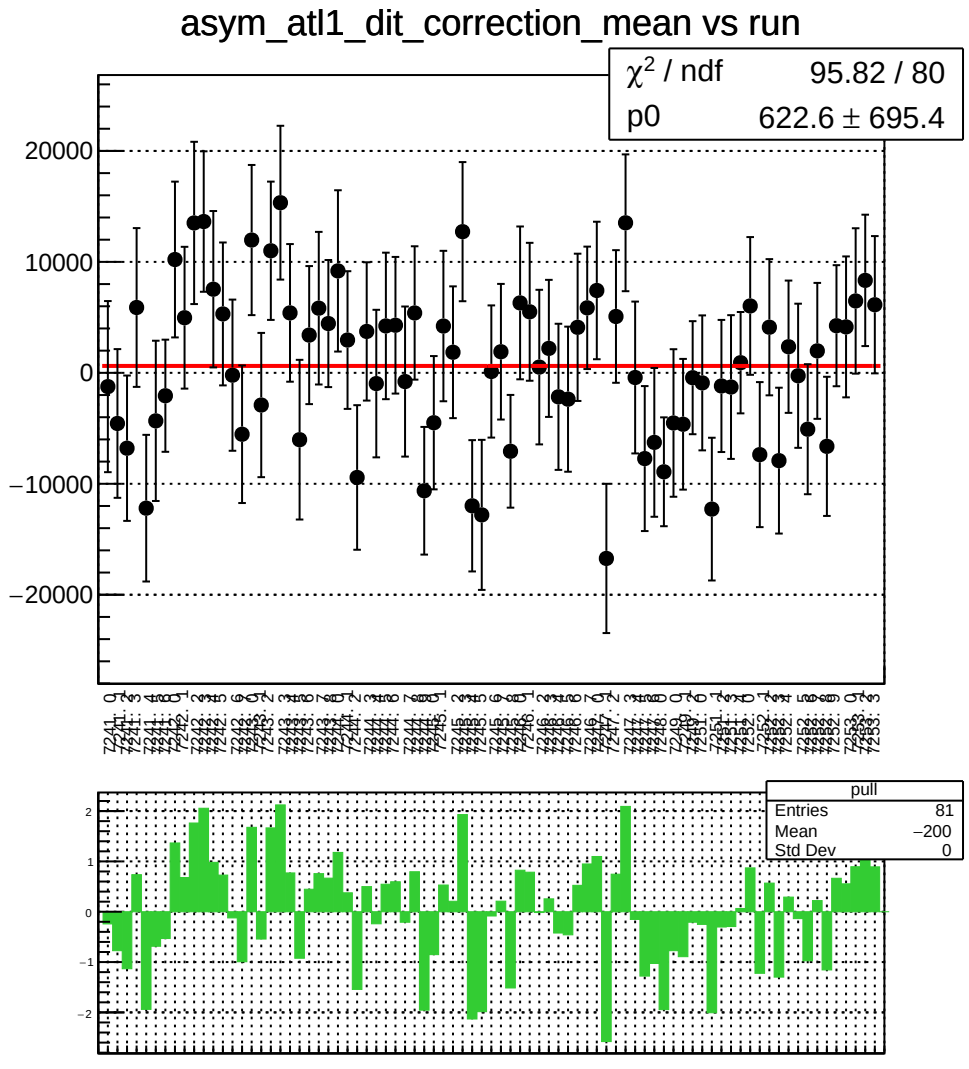

pull1D
Entries 81
Mean 0.02545
Std Dev 1.083
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

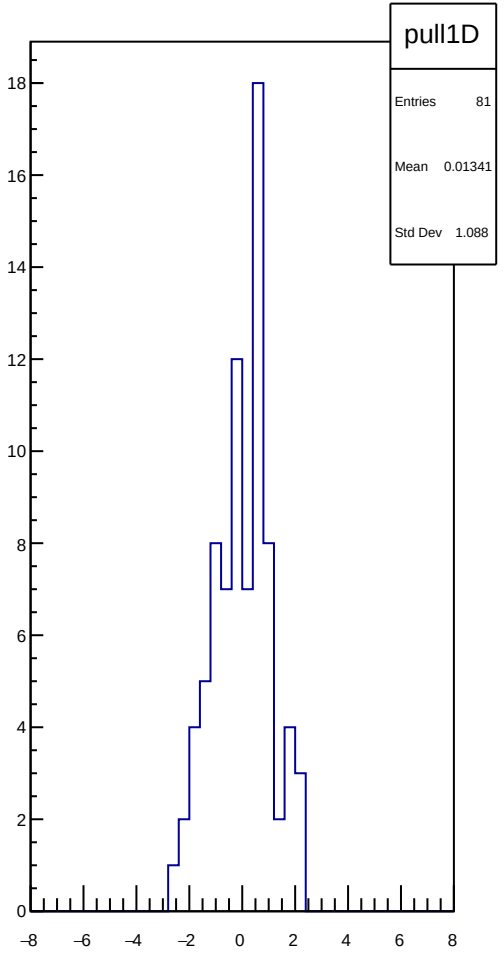

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 7879 / 80
p0 583.9 ± 0.4703
750
700
650
600
550
500

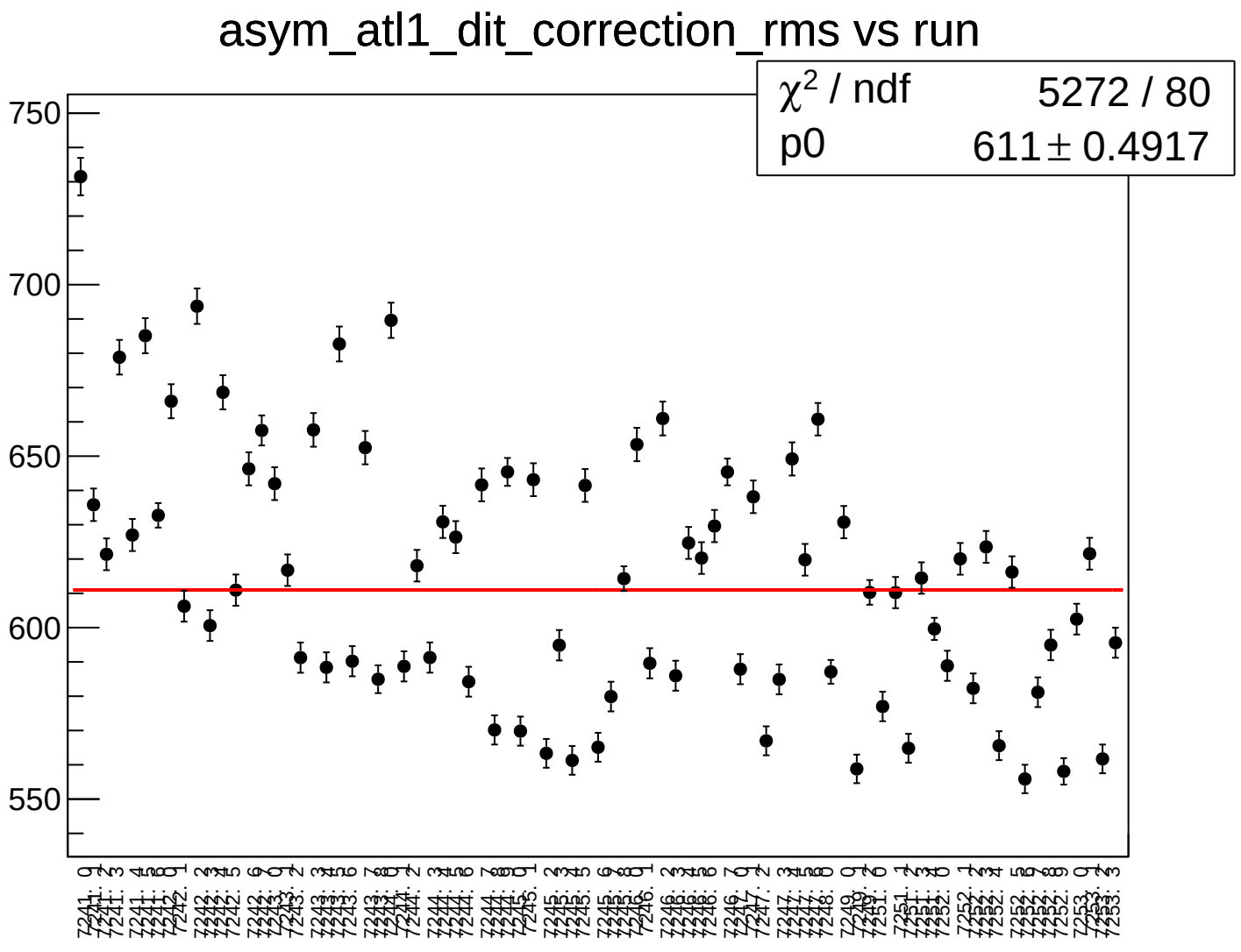

dit_asym_atl1_mean vs run
χ² / ndf 88.05 / 80
p0 492.4 ± 2661
pull
Entries 81
Mean −125.4
Std Dev 0

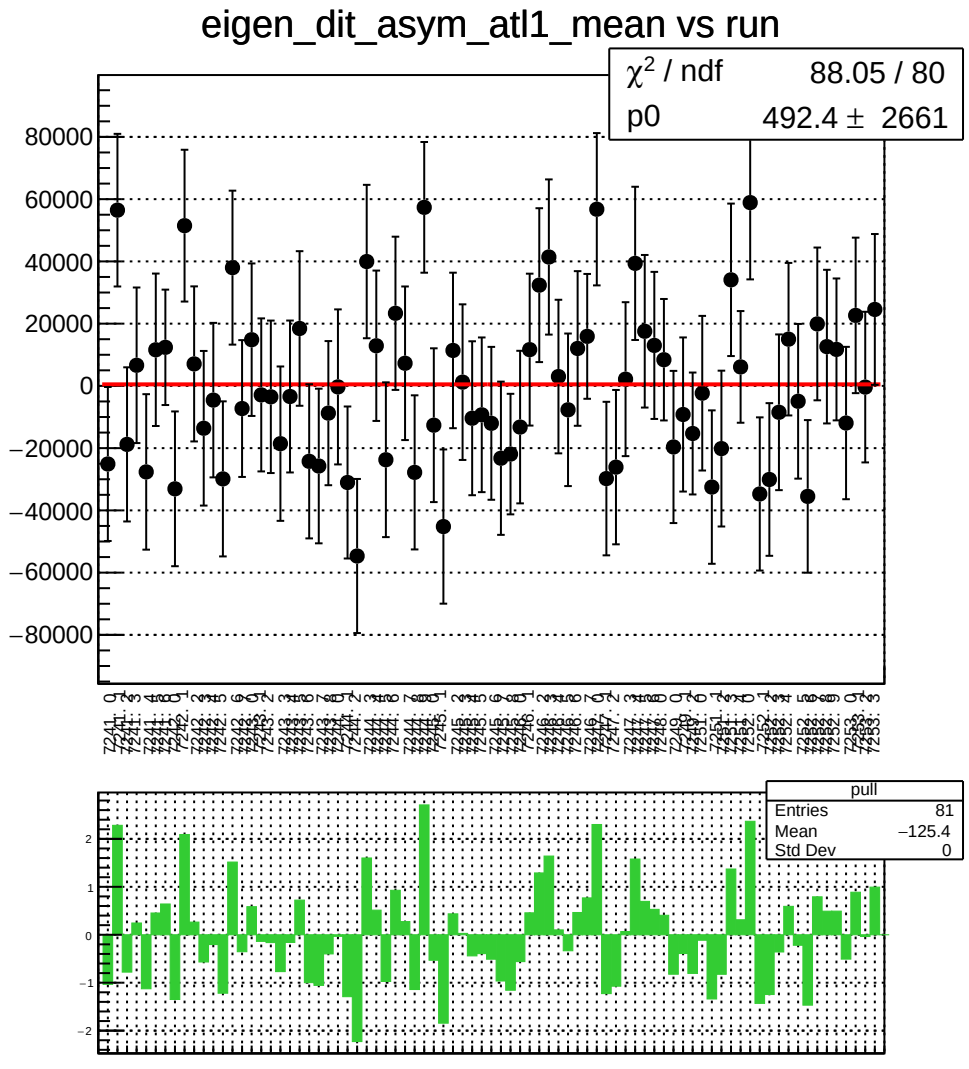

pull1D
Entries 81
Mean −0.008502
Std Dev 1.043

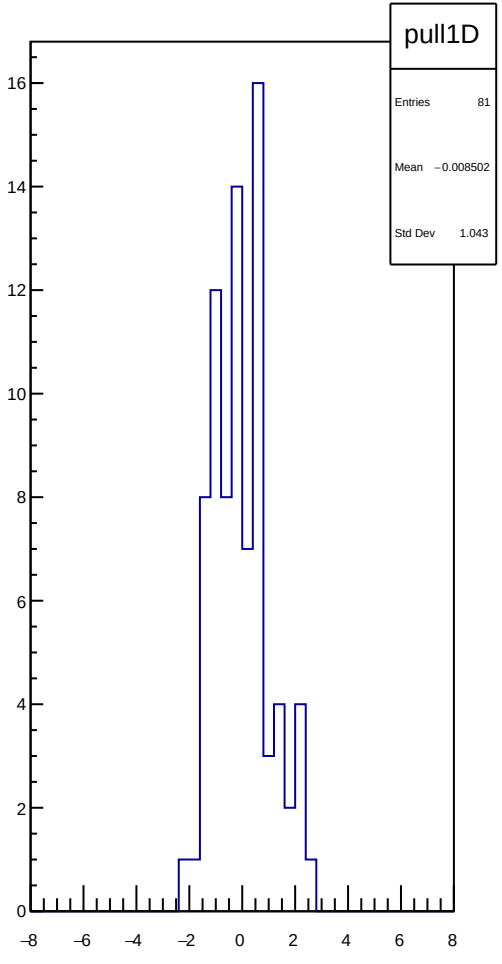

dit_asym_atl1_rms vs run
χ² / ndf 86.68 / 80
p0 2342 ± 1.881
2400
2380
2360
2340
2320
2300
2280

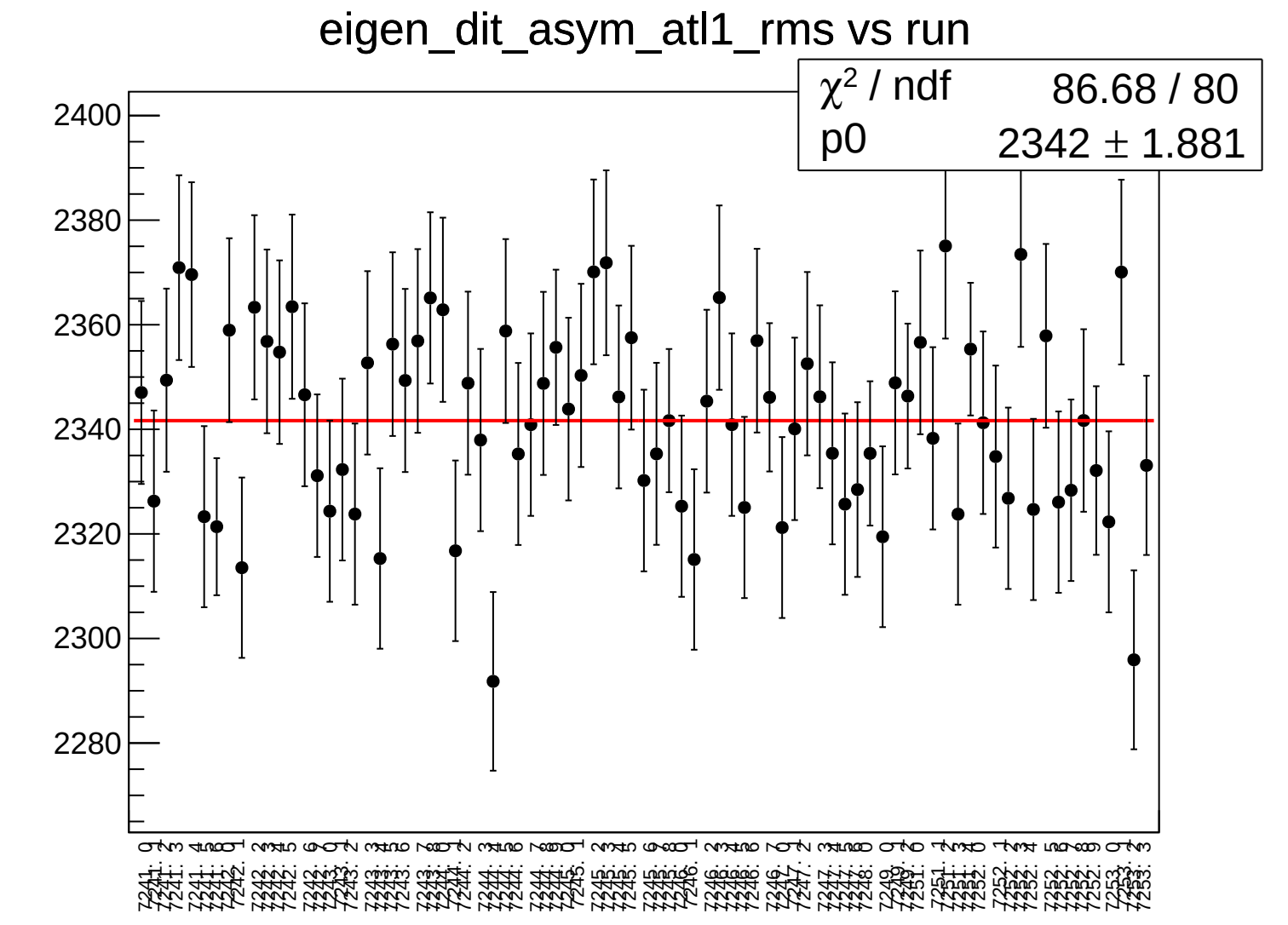

asym_atl1_dit_correction_mean vs run
χ² / ndf 95.82 / 80
p0 622.6 ± 695.4
20000
10000
0
−10000
−20000
pull
Entries 81
Mean −200
Std Dev 0
2
1
0
−1
−2

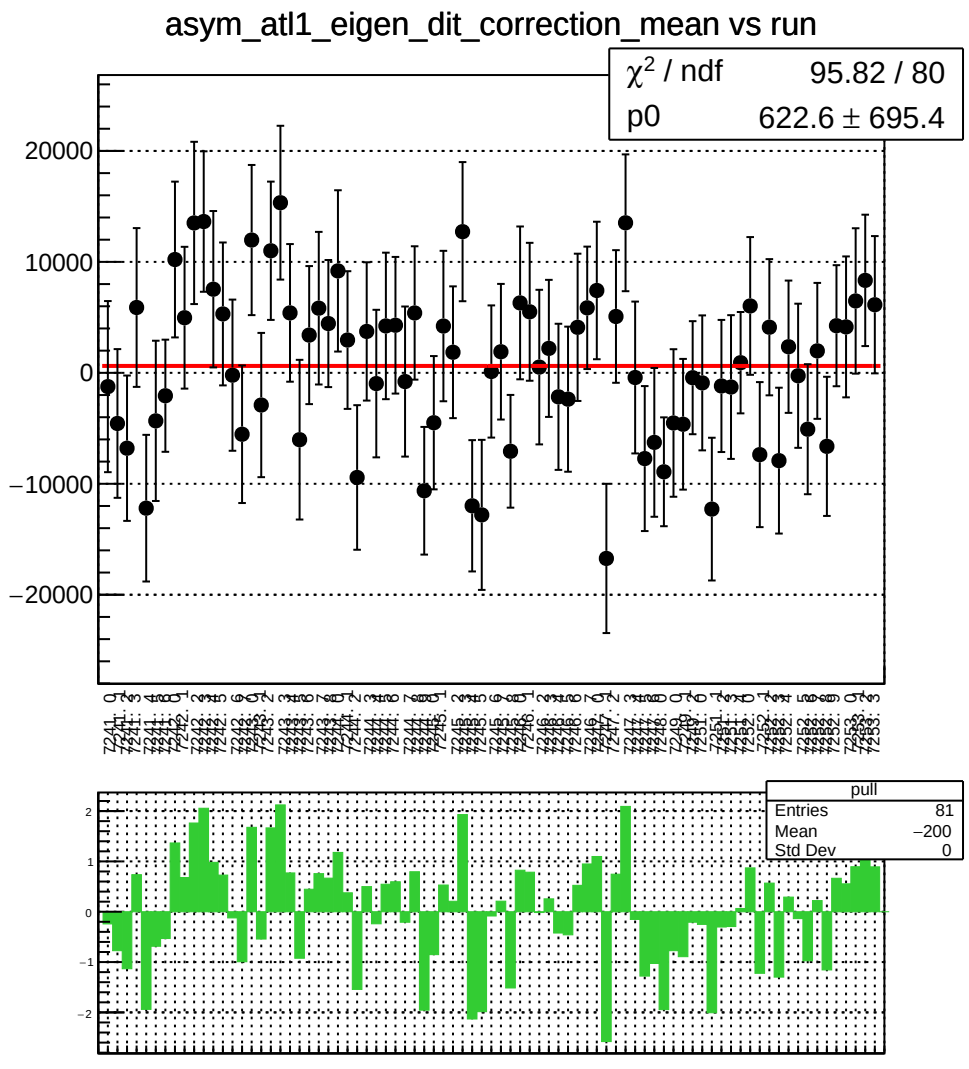

pull1D
Entries 81
Mean 0.01341
Std Dev 1.088
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

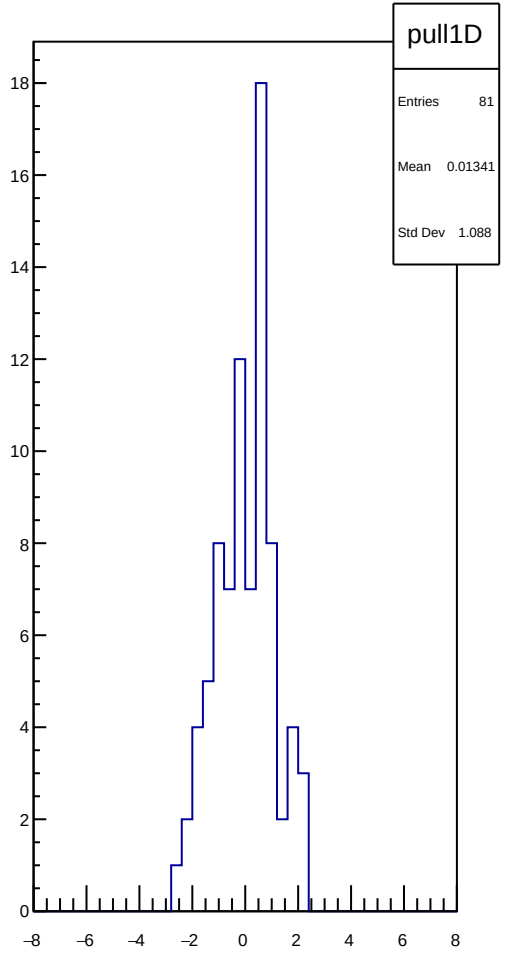

asym_atl1_dit_correction_rms vs run
χ² / ndf 5272 / 80
p0 611 ± 0.4917
750
700
650
600
550

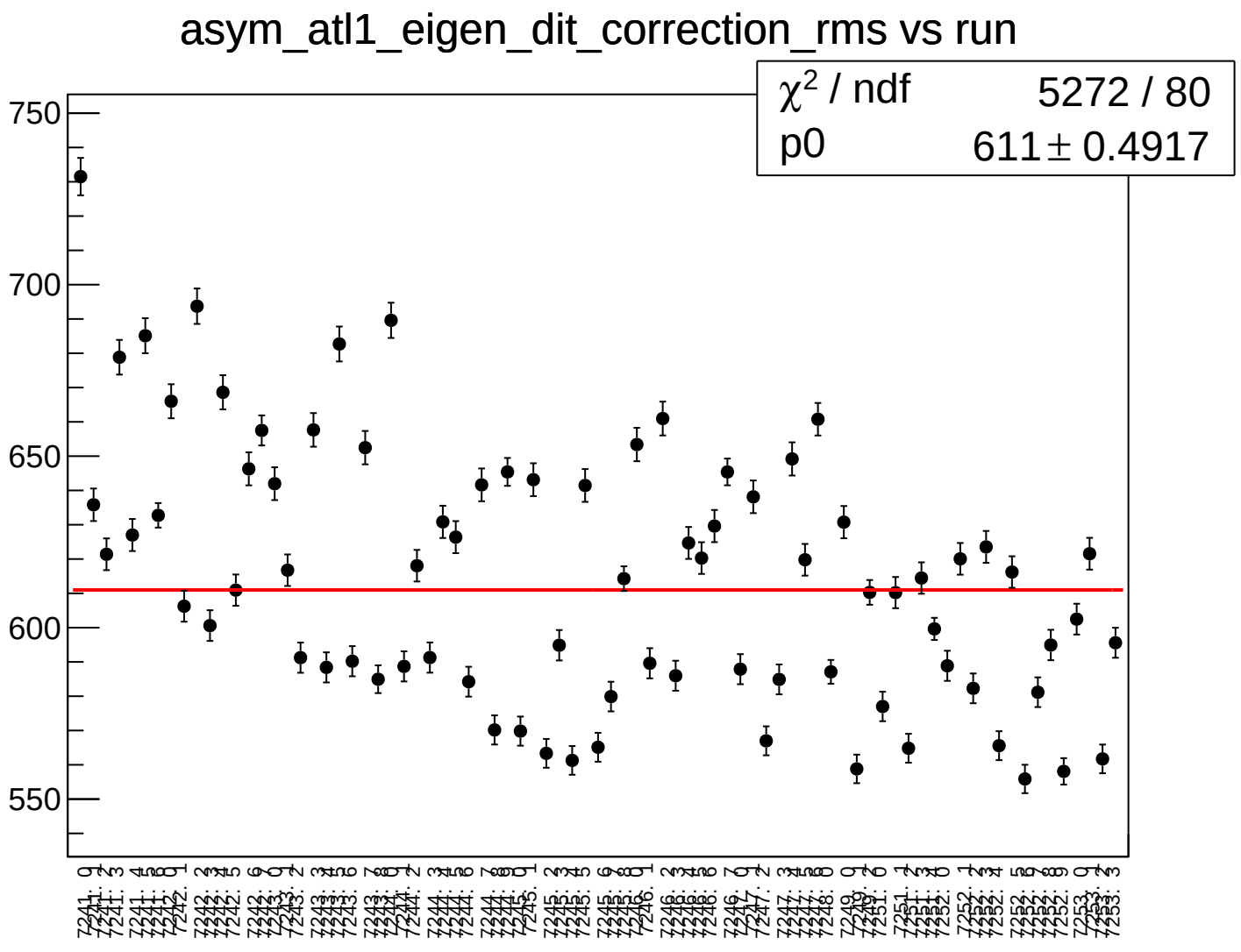

eigen_dit_asym_atl1_mean vs run
χ² / ndf 88.05 / 80
p0 492.4 ± 2661
pull
Entries 81
Mean −125.4
Std Dev 0

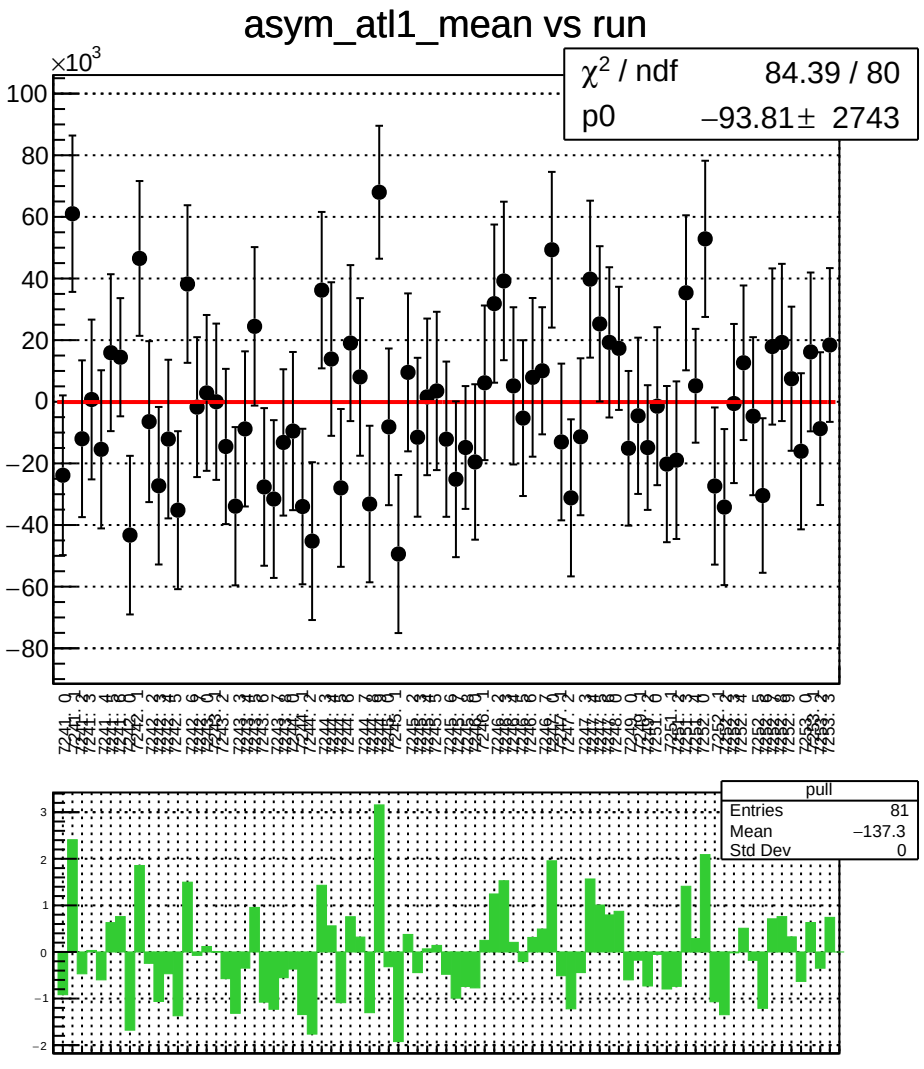

pull1D
Entries 81
Mean −0.008502
Std Dev 1.043

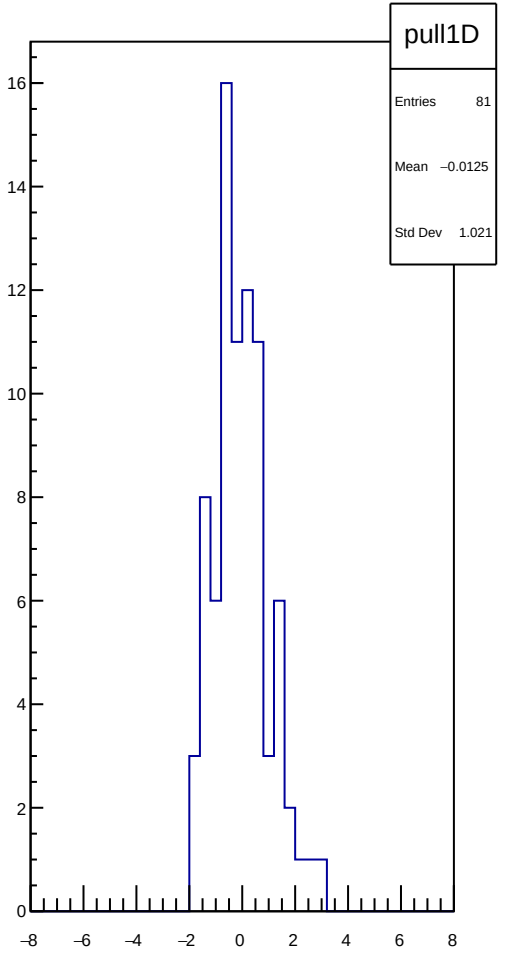

eigen_dit_asym_atl1_rms vs run
χ² / ndf 86.68 / 80
p0 2342 ± 1.881
2400
2380
2360
2340
2320
2300
2280

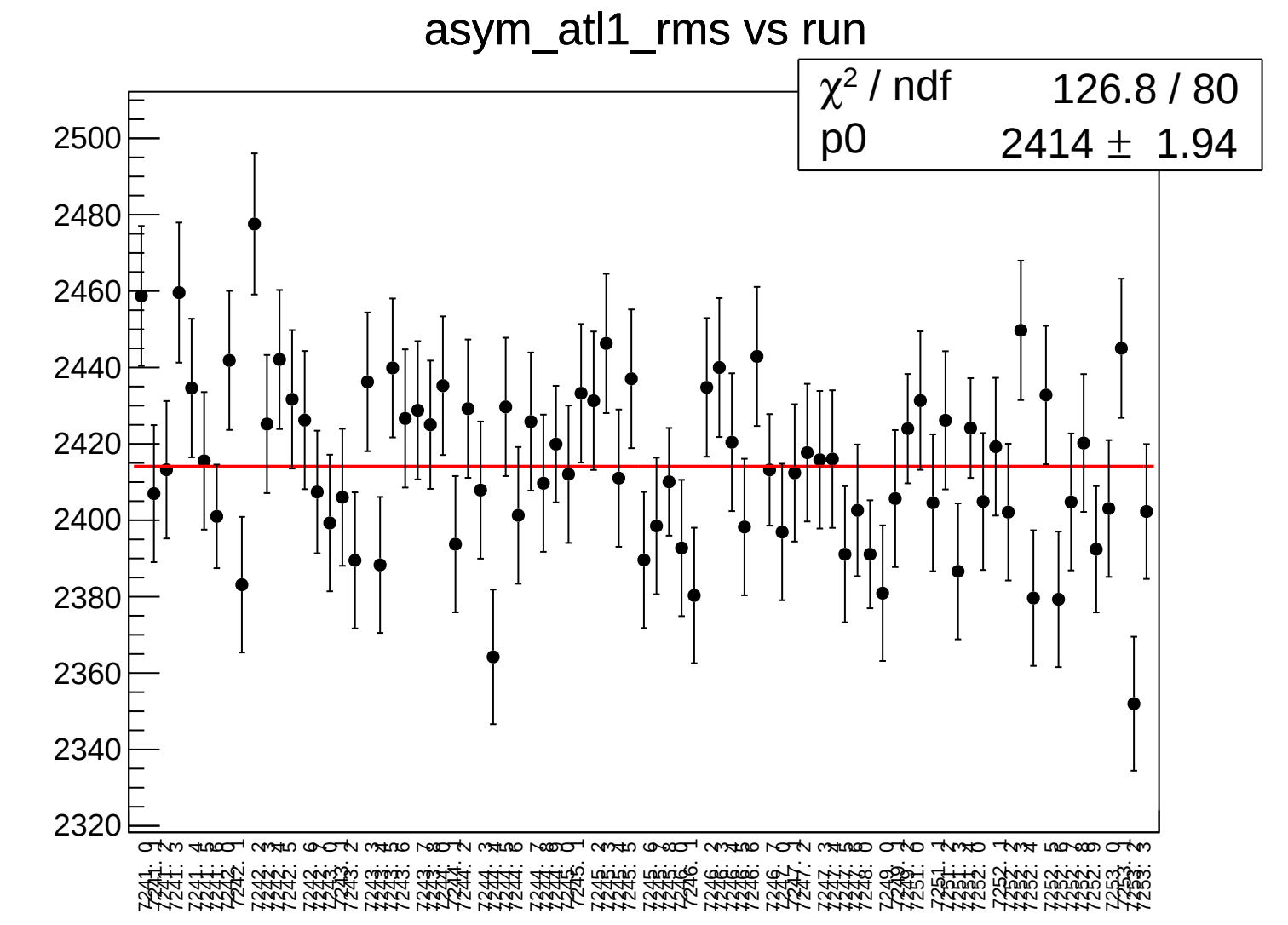

asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 95.82 / 80
p0 622.6 ± 695.4
20000
10000
0
−10000
−20000
pull
Entries 81
Mean −200
Std Dev 0
2
1
0
−1
−2

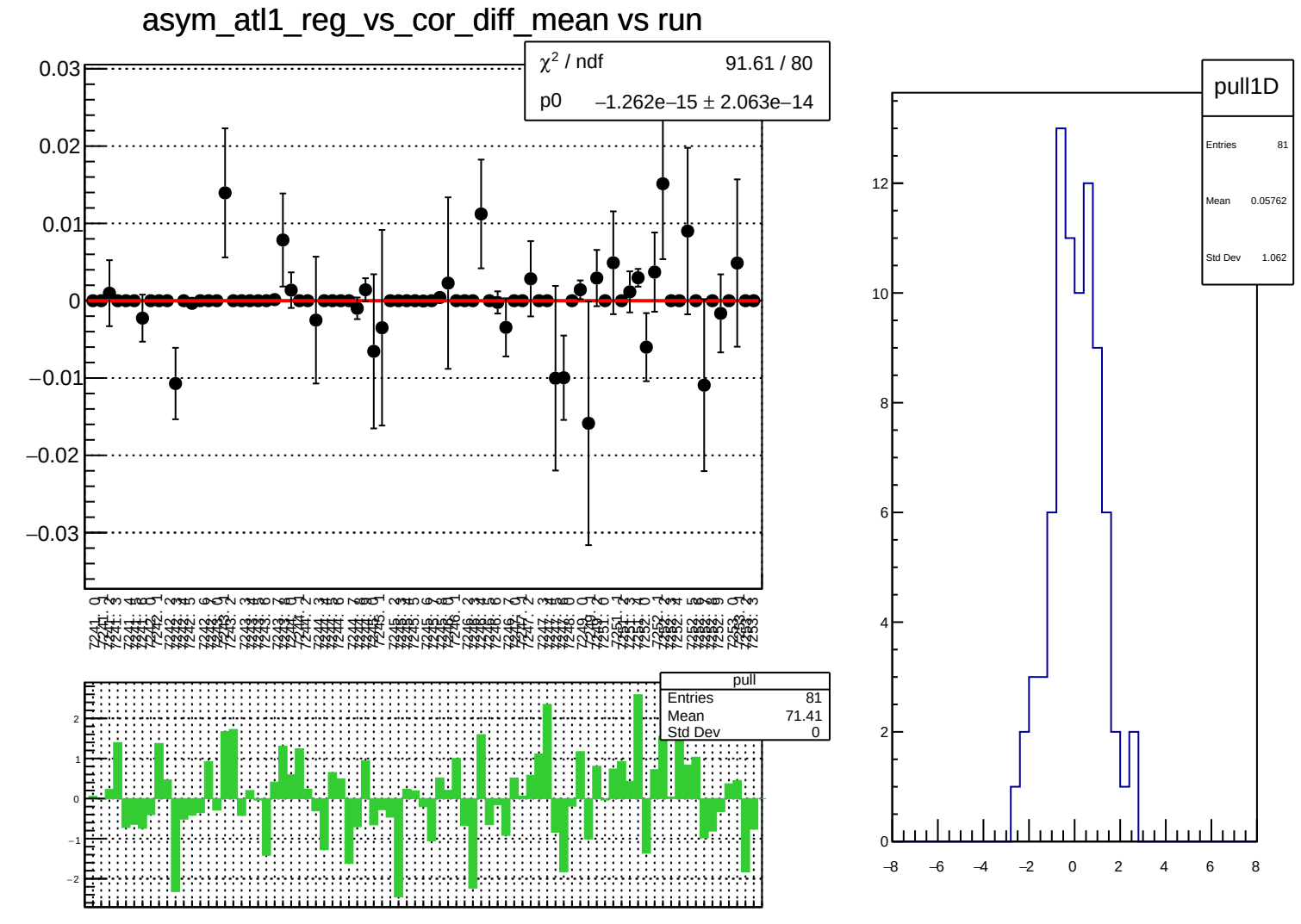

pull1D
Entries 81
Mean 0.01341
Std Dev 1.088
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

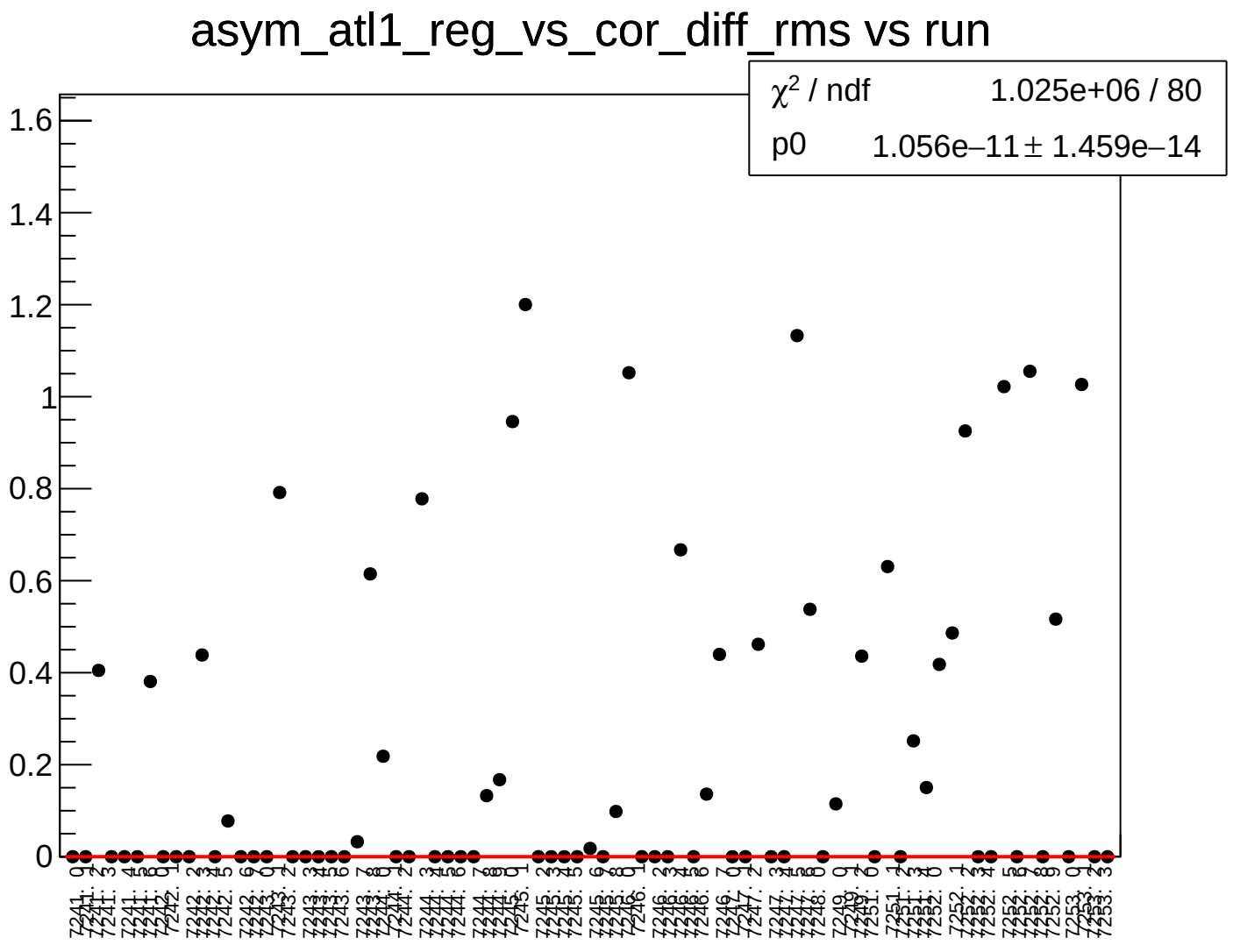

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 5272 / 80
p0 611 ± 0.4917
750
700
650
600
550

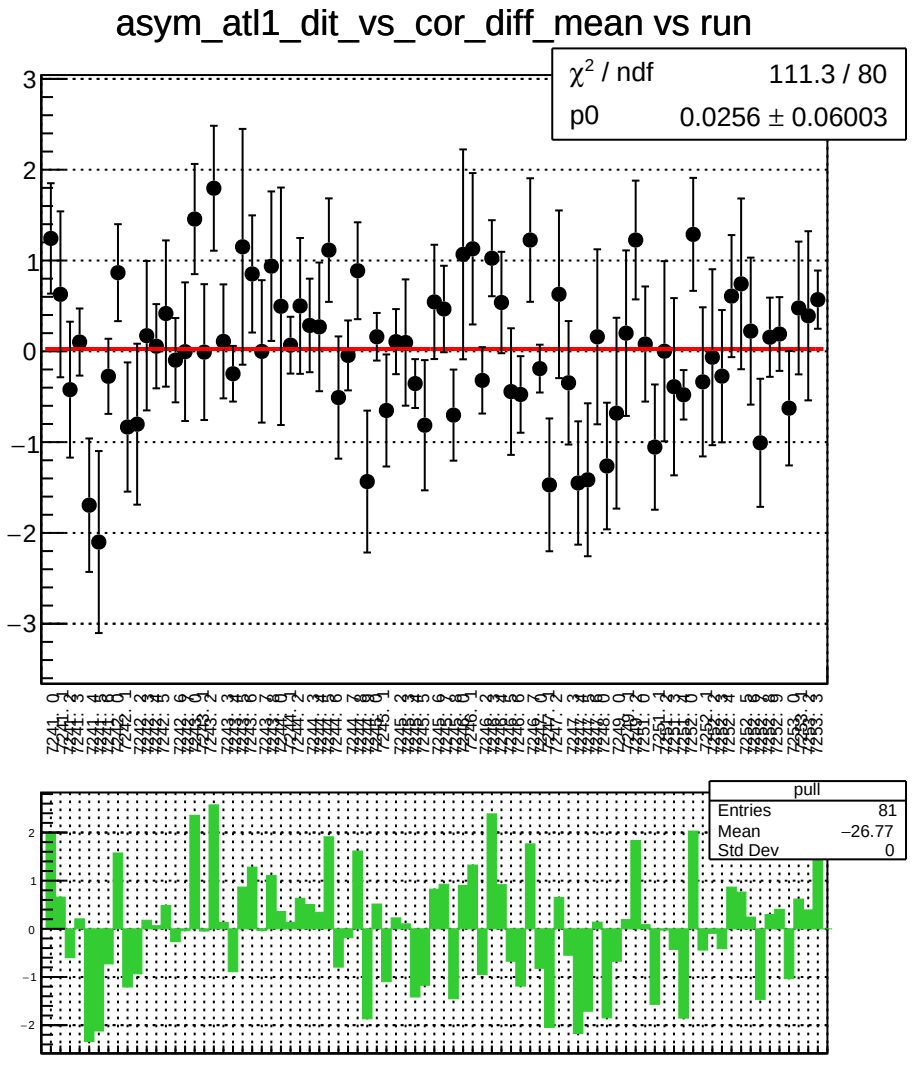

asym_atl1_mean vs run
×10^3
χ² / ndf 84.39 / 80
p0 −93.81± 2743
pull
Entries 81
Mean −137.3
Std Dev 0

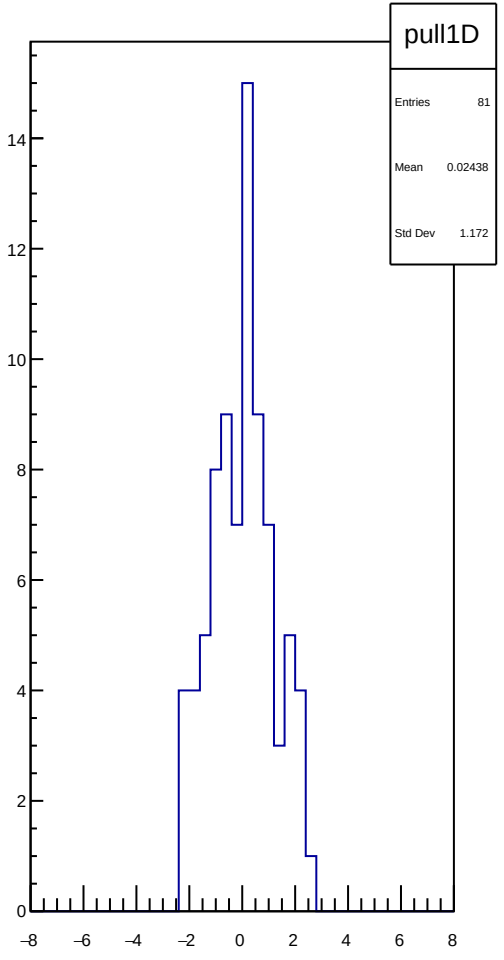

pull1D
Entries 81
Mean −0.0125
Std Dev 1.021

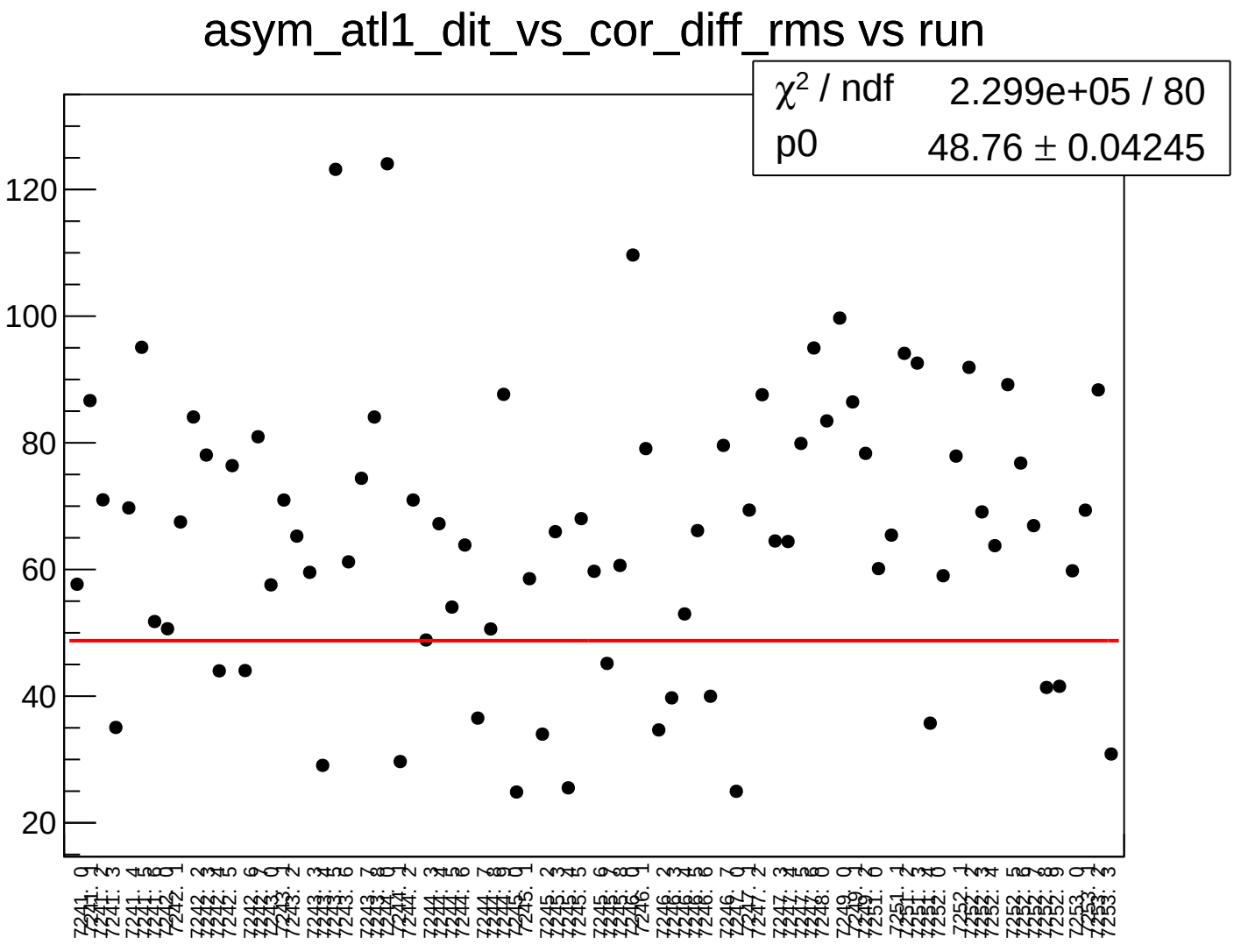

asym_atl1_rms vs run
χ² / ndf 126.8 / 80
p0 2414 ± 1.94
2500
2480
2460
2440
2420
2400
2380
2360
2340
2320

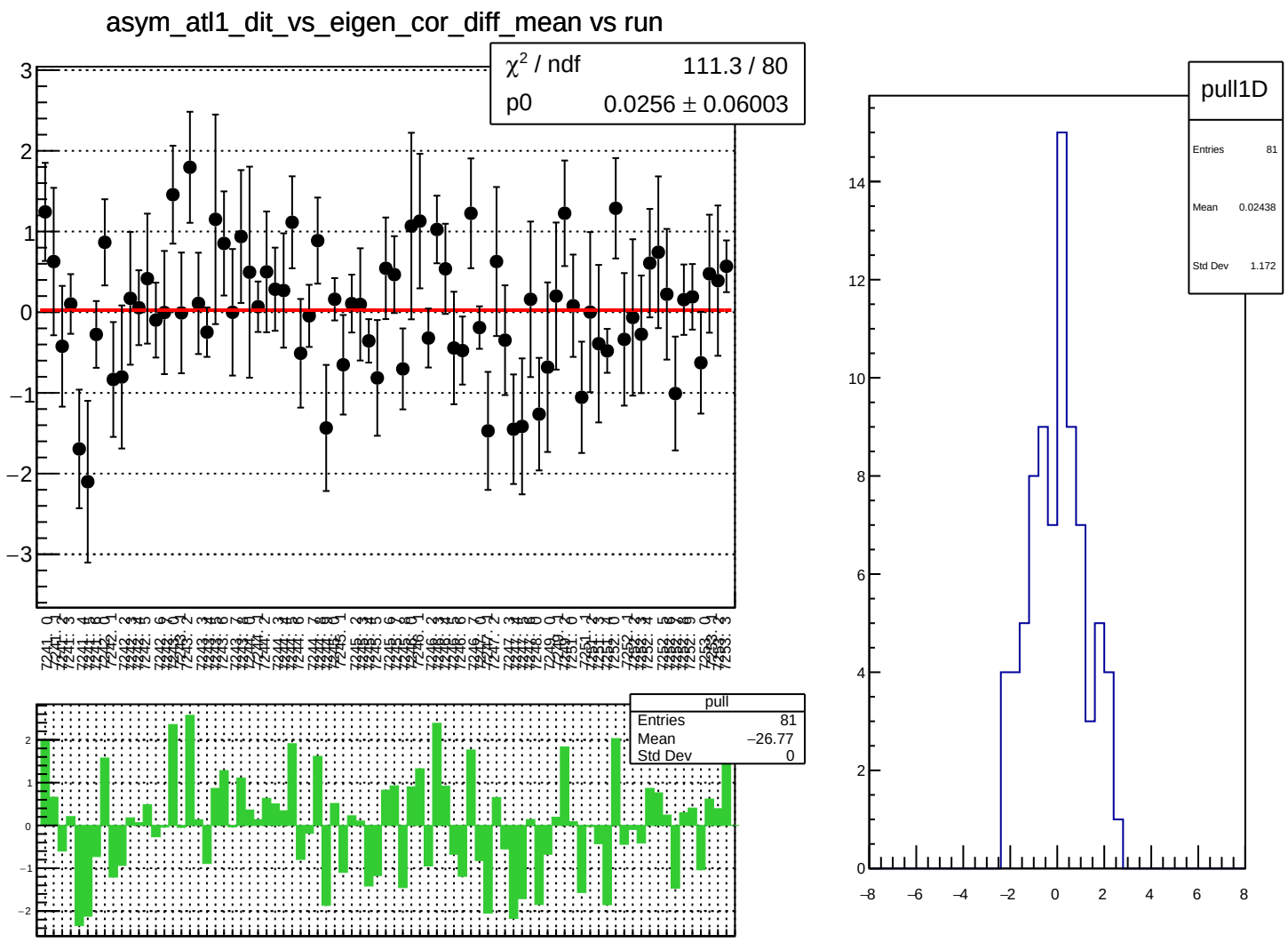

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 91.61 / 80
p0 −1.262e−15 ± 2.063e−14
pull
Entries 81
Mean 71.41
Std Dev 0
pull1D
Entries 81
Mean 0.05762
Std Dev 1.062

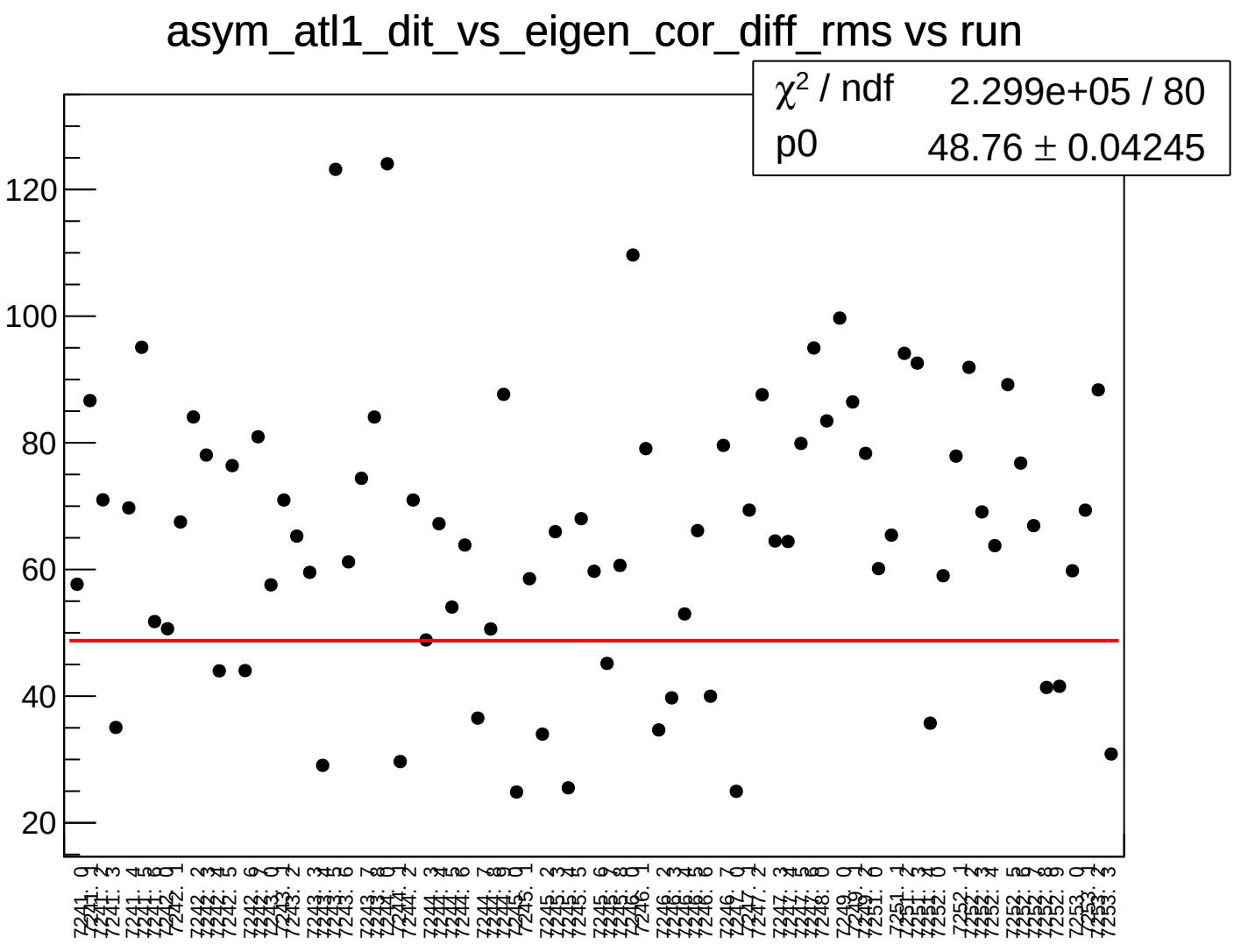

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.025e+06 / 80
p0 1.056e−11 ± 1.459e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

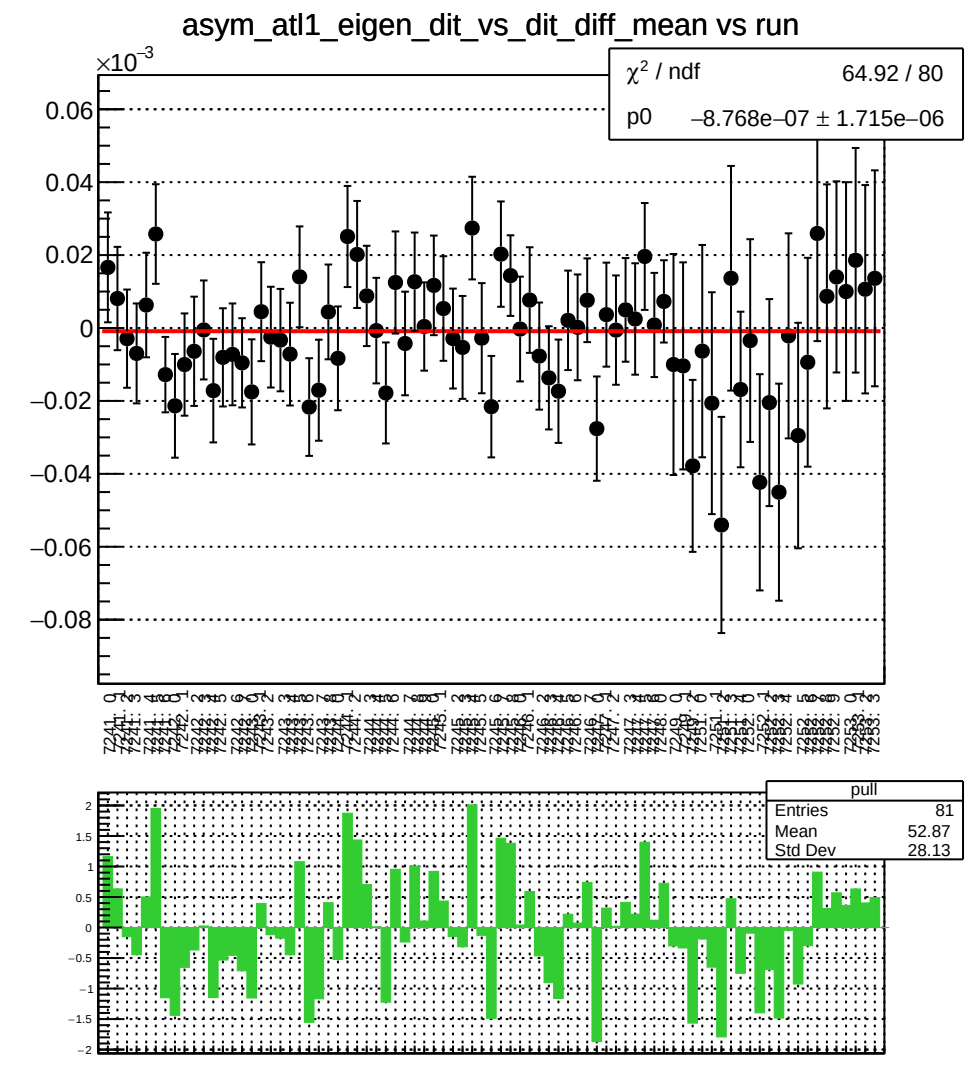

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 111.3 / 80
p0 0.0256 ± 0.06003
pull
Entries 81
Mean −26.77
Std Dev 0

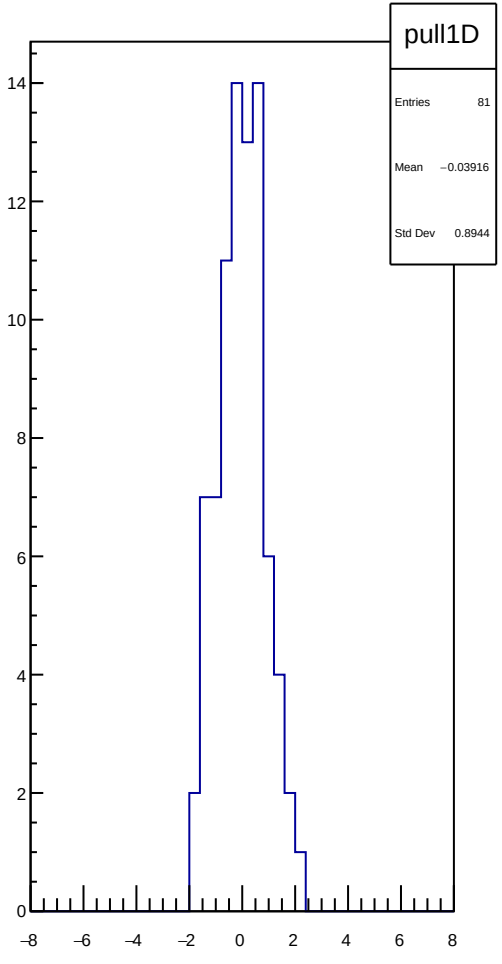

pull1D
Entries 81
Mean 0.02438
Std Dev 1.172

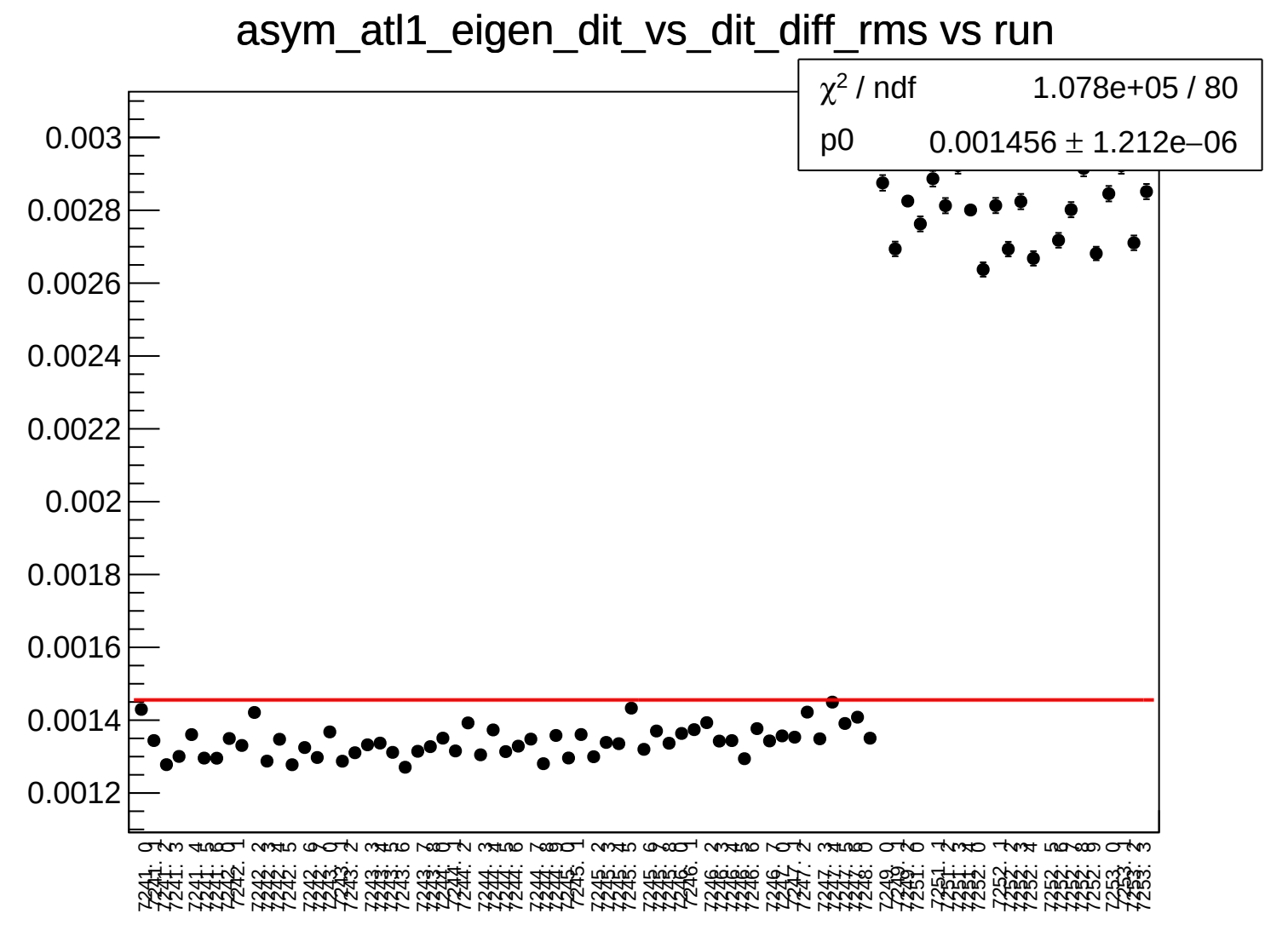

asym_atl1_dit_vs_cor_diff_rms vs run
χ² / ndf 2.299e+05 / 80
p0 48.76 ± 0.04245
120
100
80
60
40
20

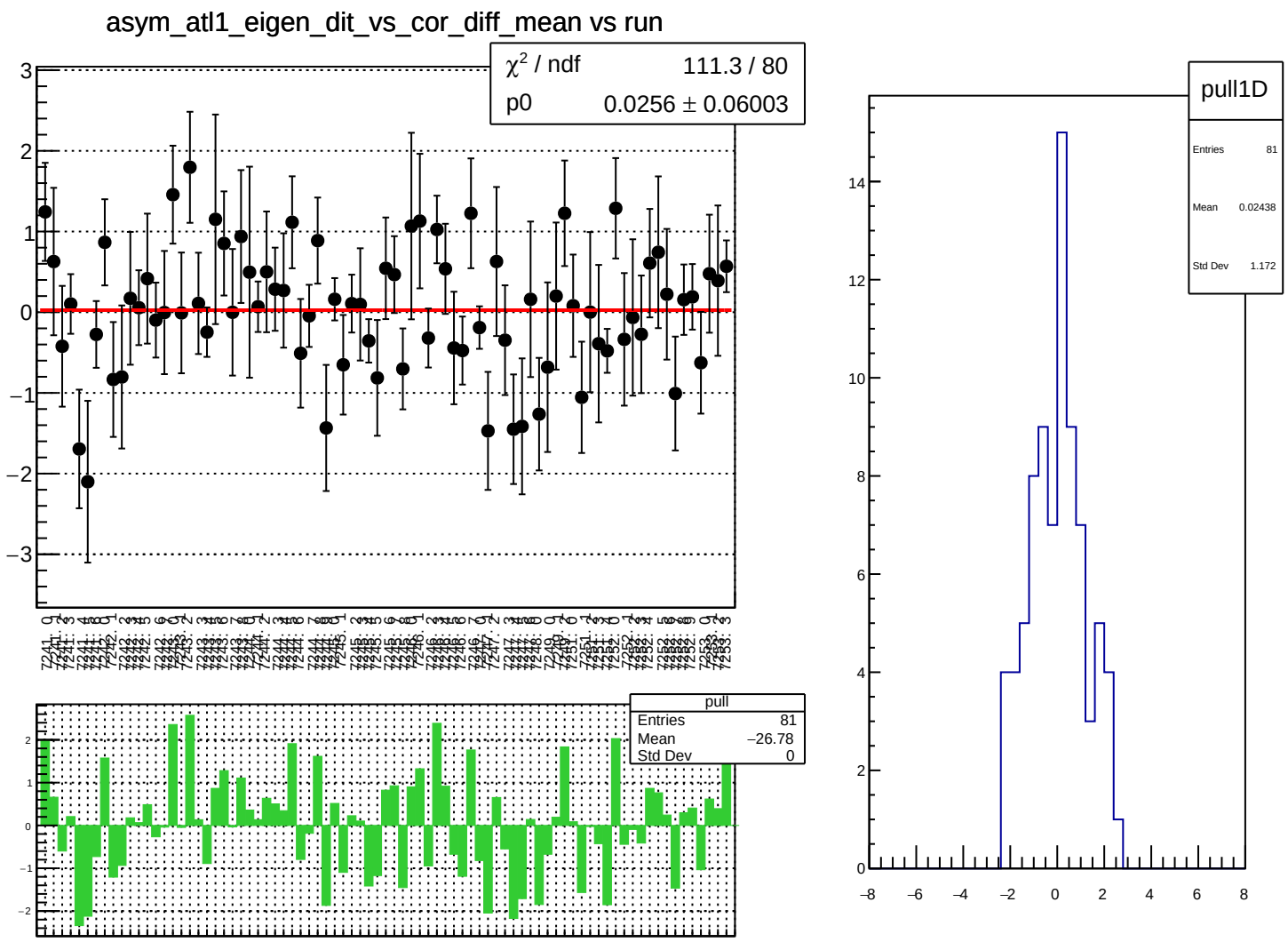

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 111.3 / 80
p0 0.0256 ± 0.06003
pull
Entries 81
Mean −26.77
Std Dev 0
pull1D
Entries 81
Mean 0.02438
Std Dev 1.172

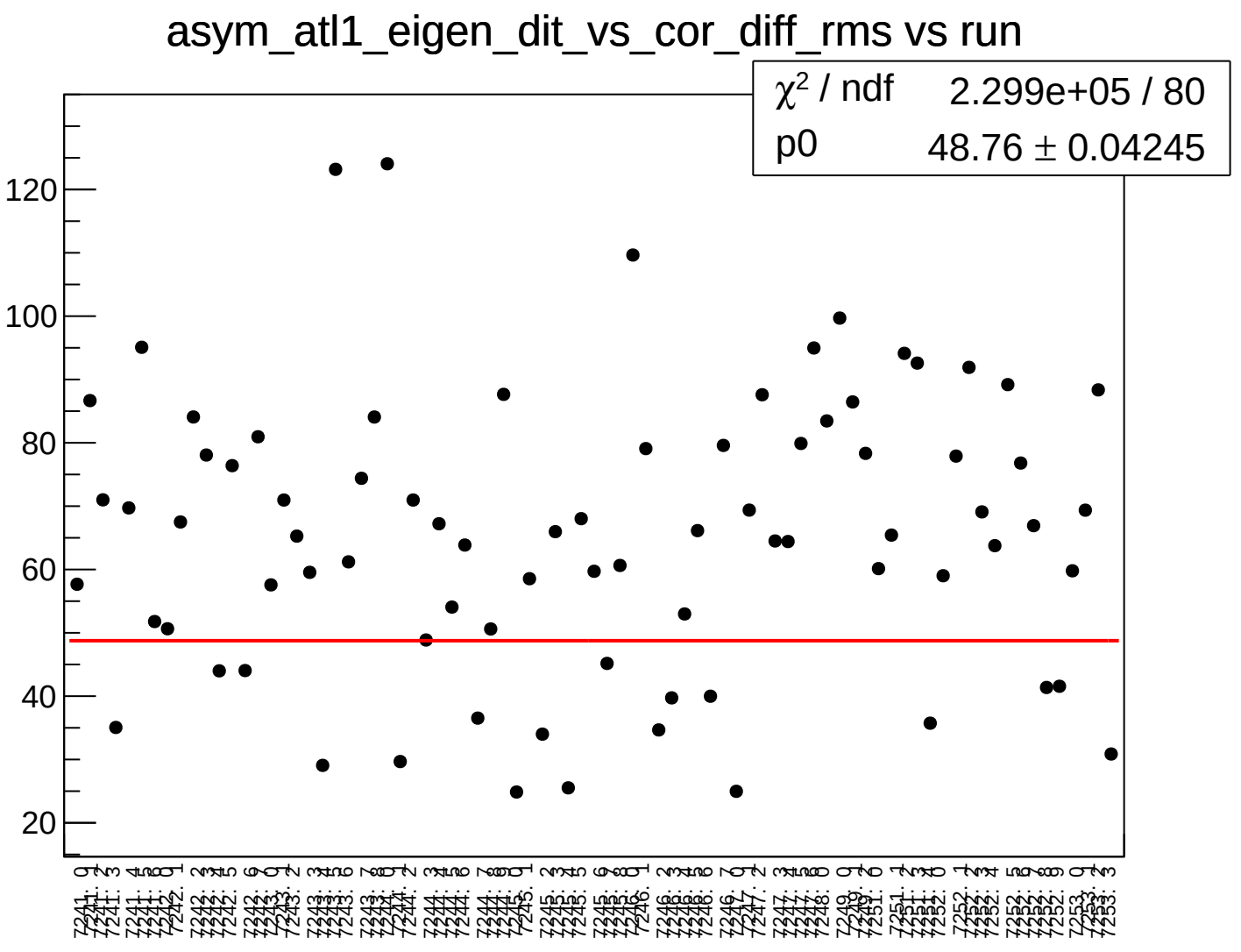

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.299e+05 / 80
p0 48.76 ± 0.04245
120
100
80
60
40
20

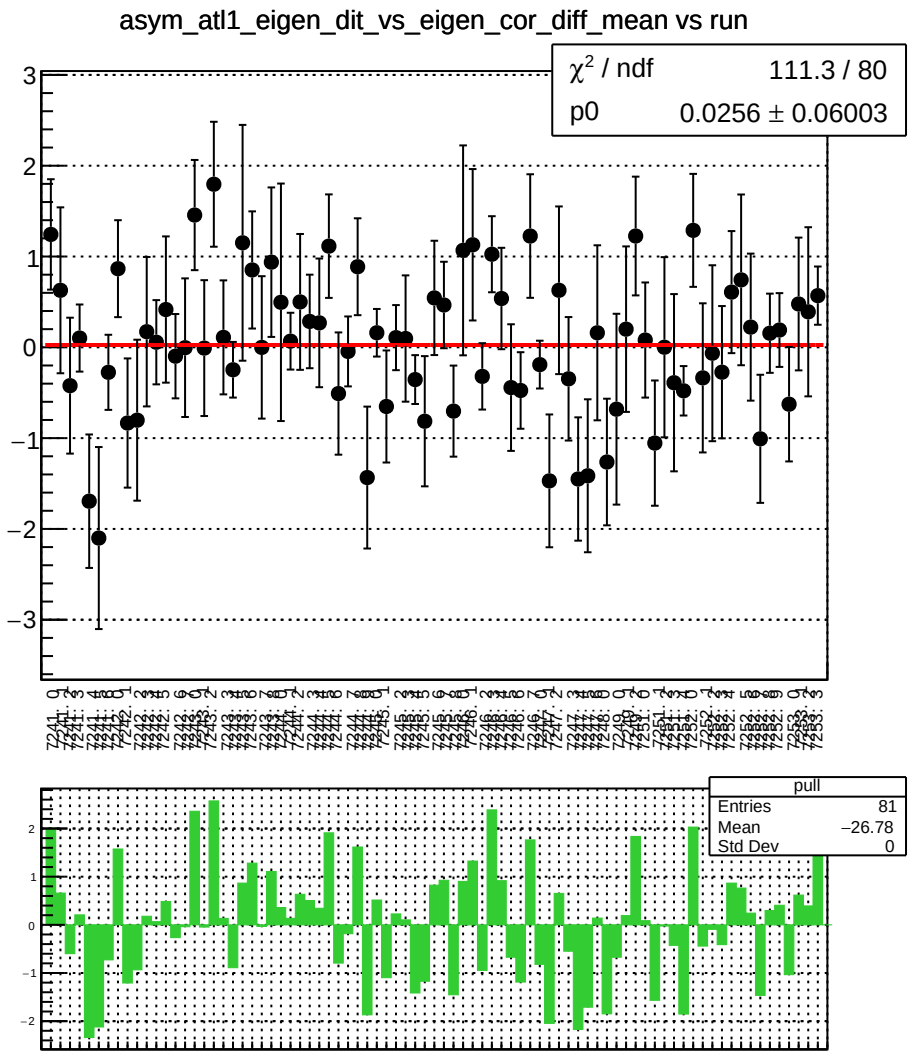

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 64.92 / 80
p0 −8.768e−07 ± 1.715e−06
pull
Entries 81
Mean 52.87
Std Dev 28.13

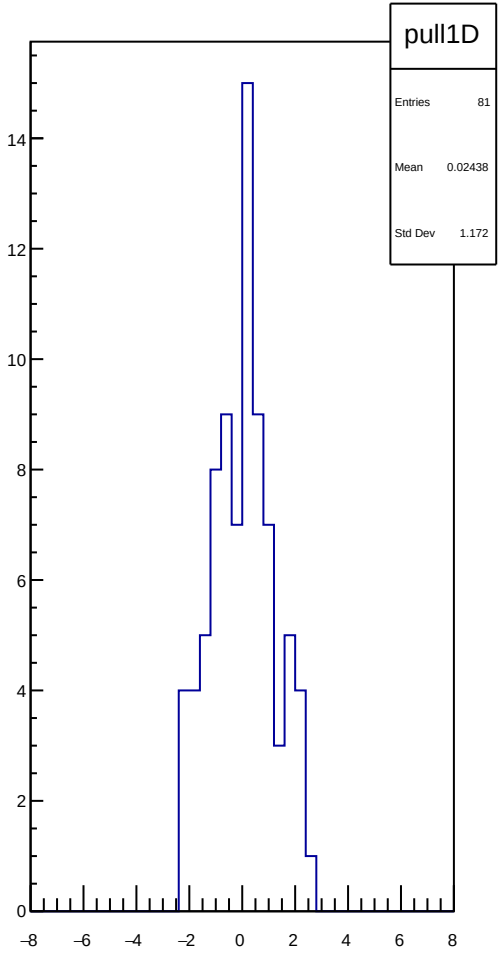

pull1D
Entries 81
Mean −0.03916
Std Dev 0.8944

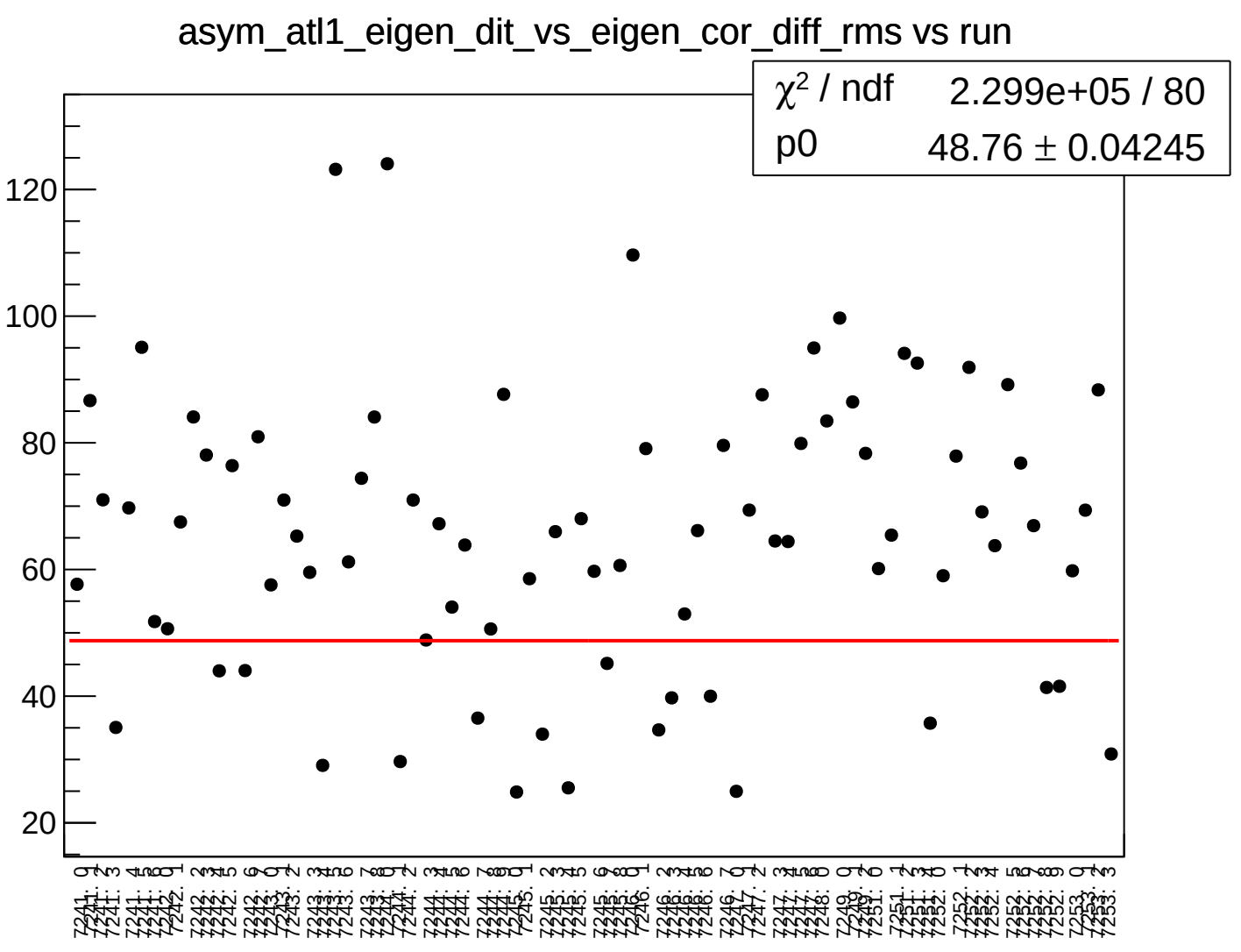

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.078e+05 / 80
p0 0.001456 ± 1.212e−06
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012

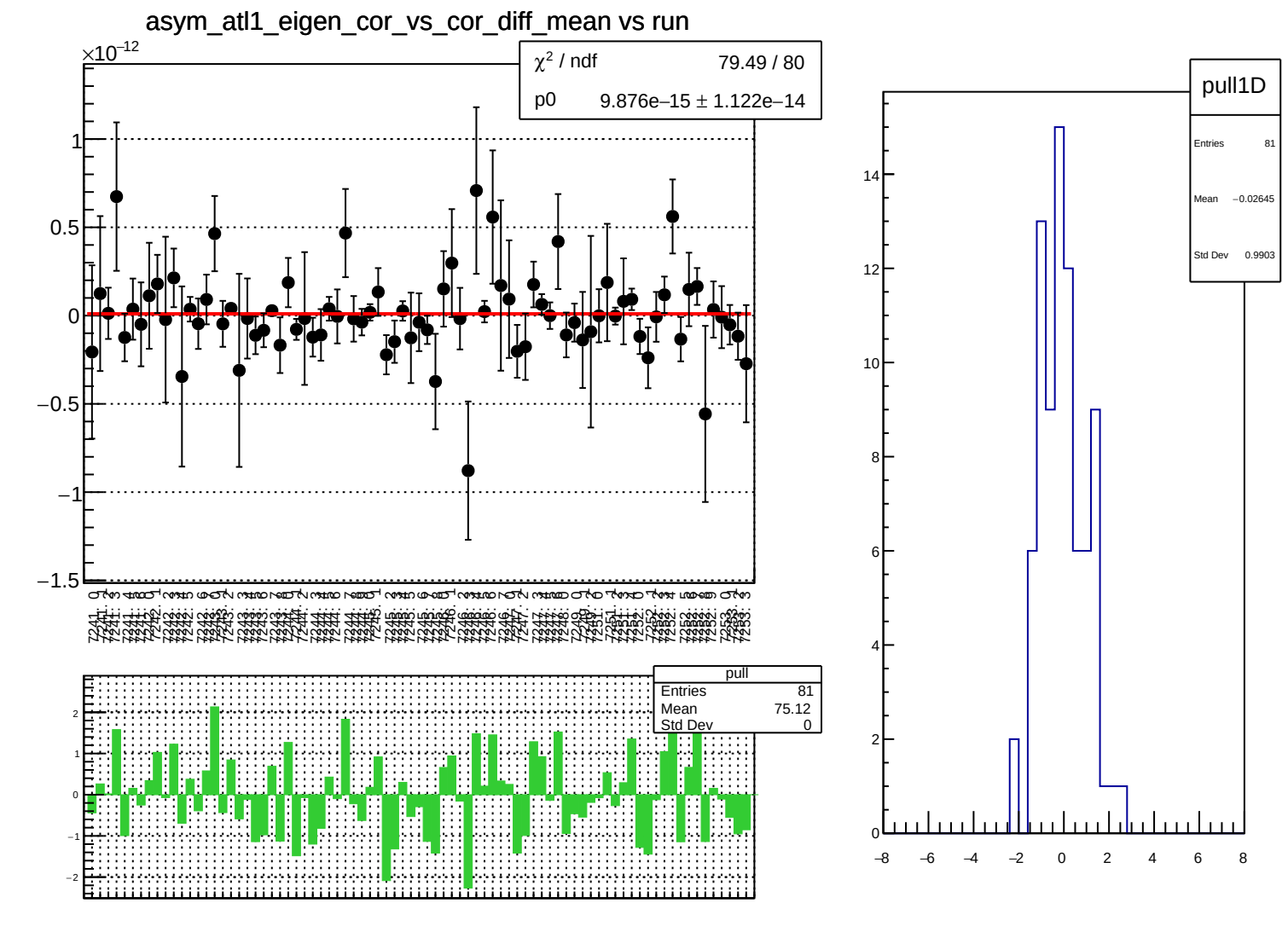

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 111.3 / 80
p0 0.0256 ± 0.06003
pull
Entries 81
Mean −26.78
Std Dev 0
pull1D
Entries 81
Mean 0.02438
Std Dev 1.172

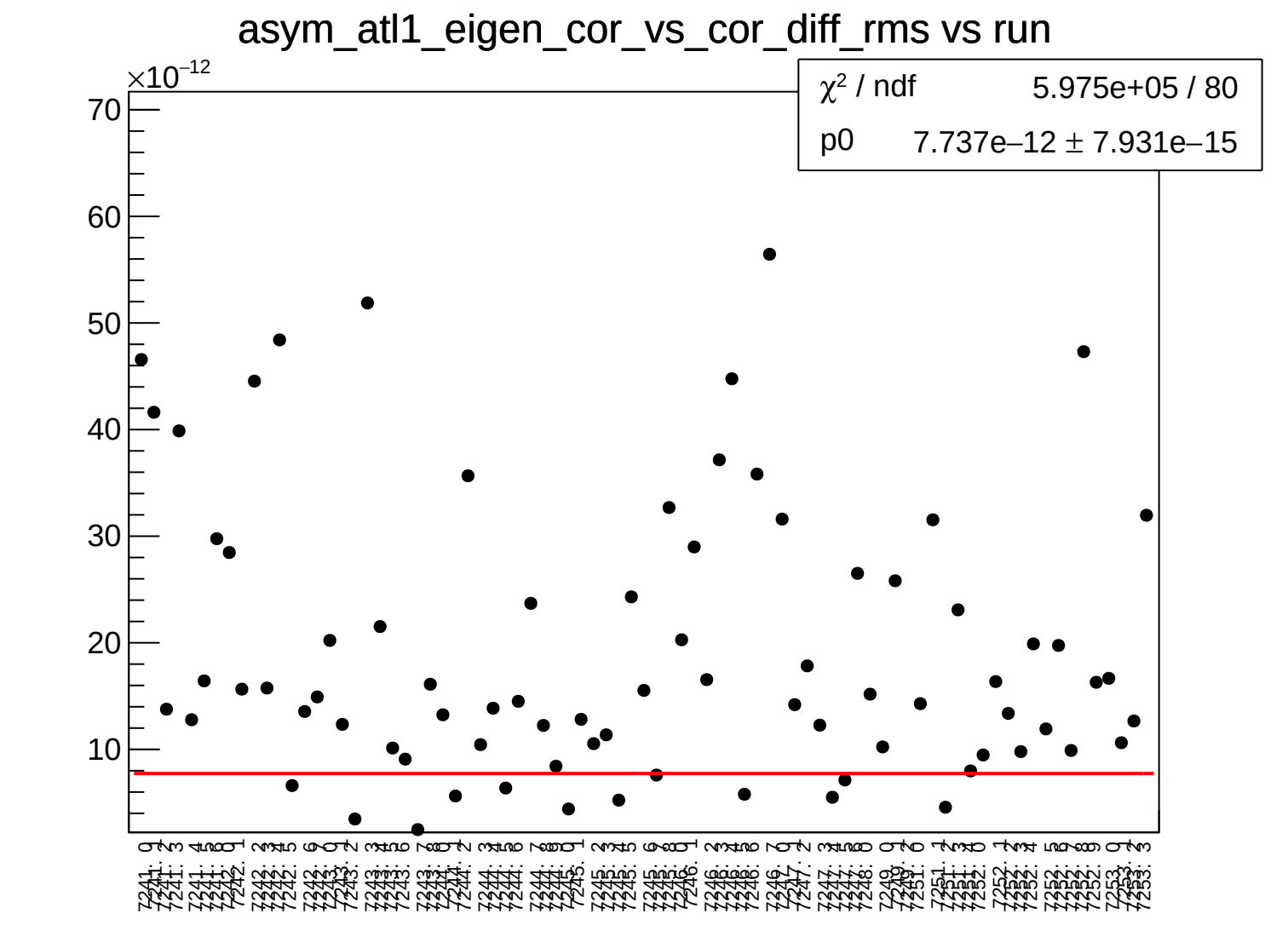

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.299e+05 / 80
p0 48.76 ± 0.04245
120
100
80
60
40
20

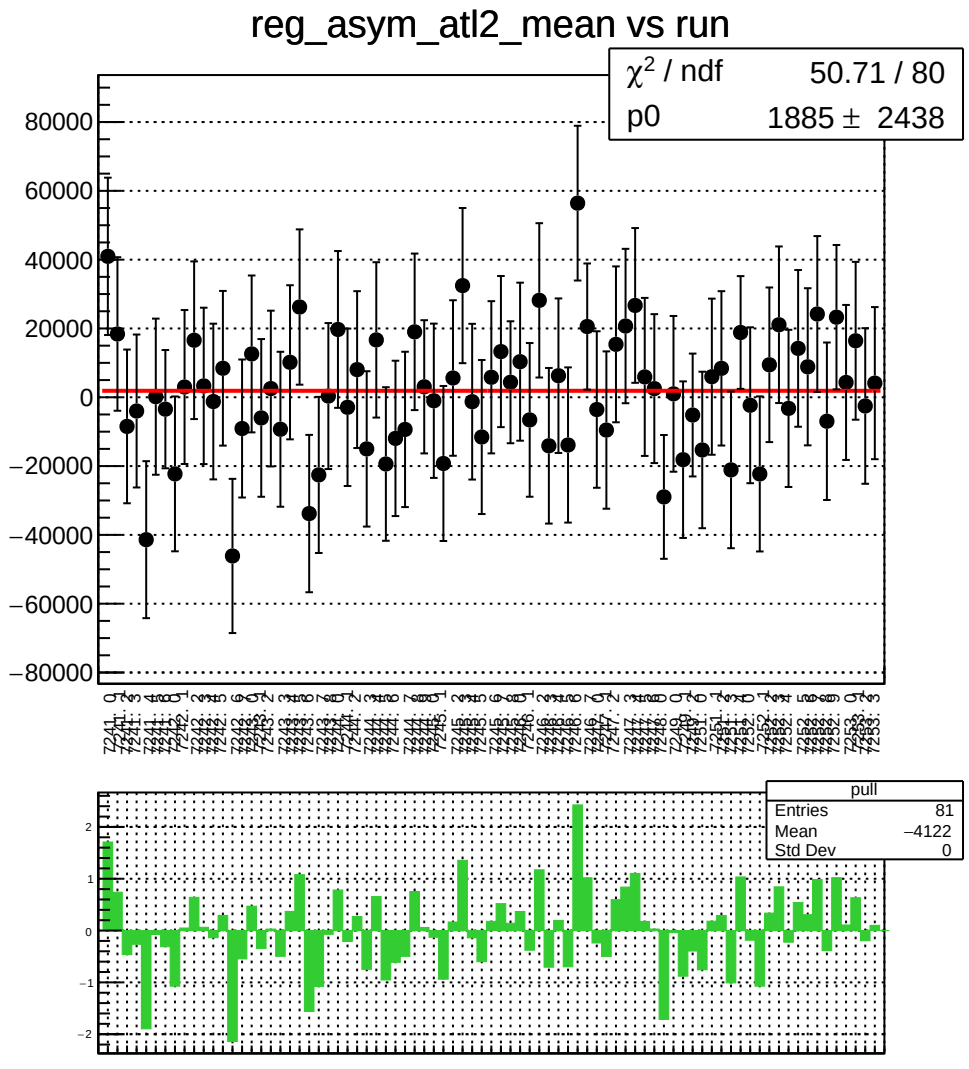

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 111.3 / 80
p0 0.0256 ± 0.06003
pull
Entries 81
Mean −26.78
Std Dev 0

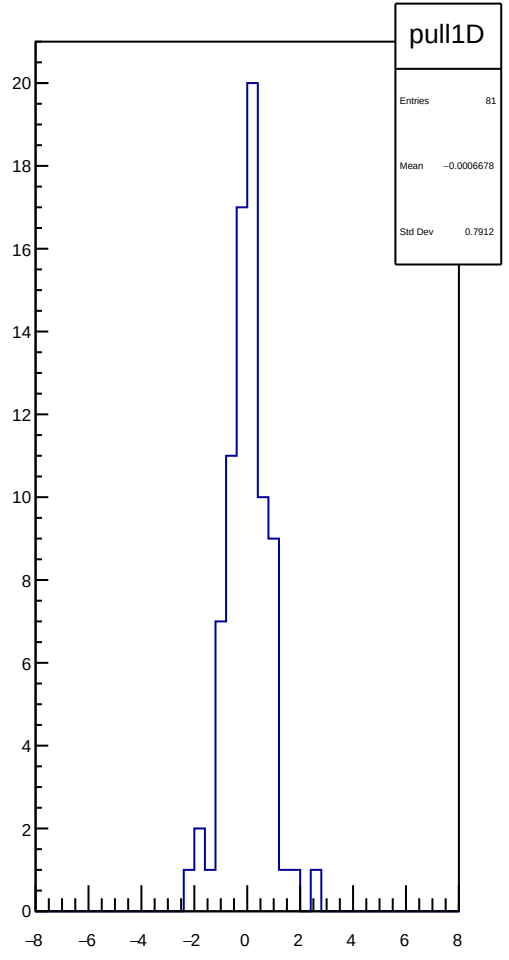

pull1D
Entries 81
Mean 0.02438
Std Dev 1.172

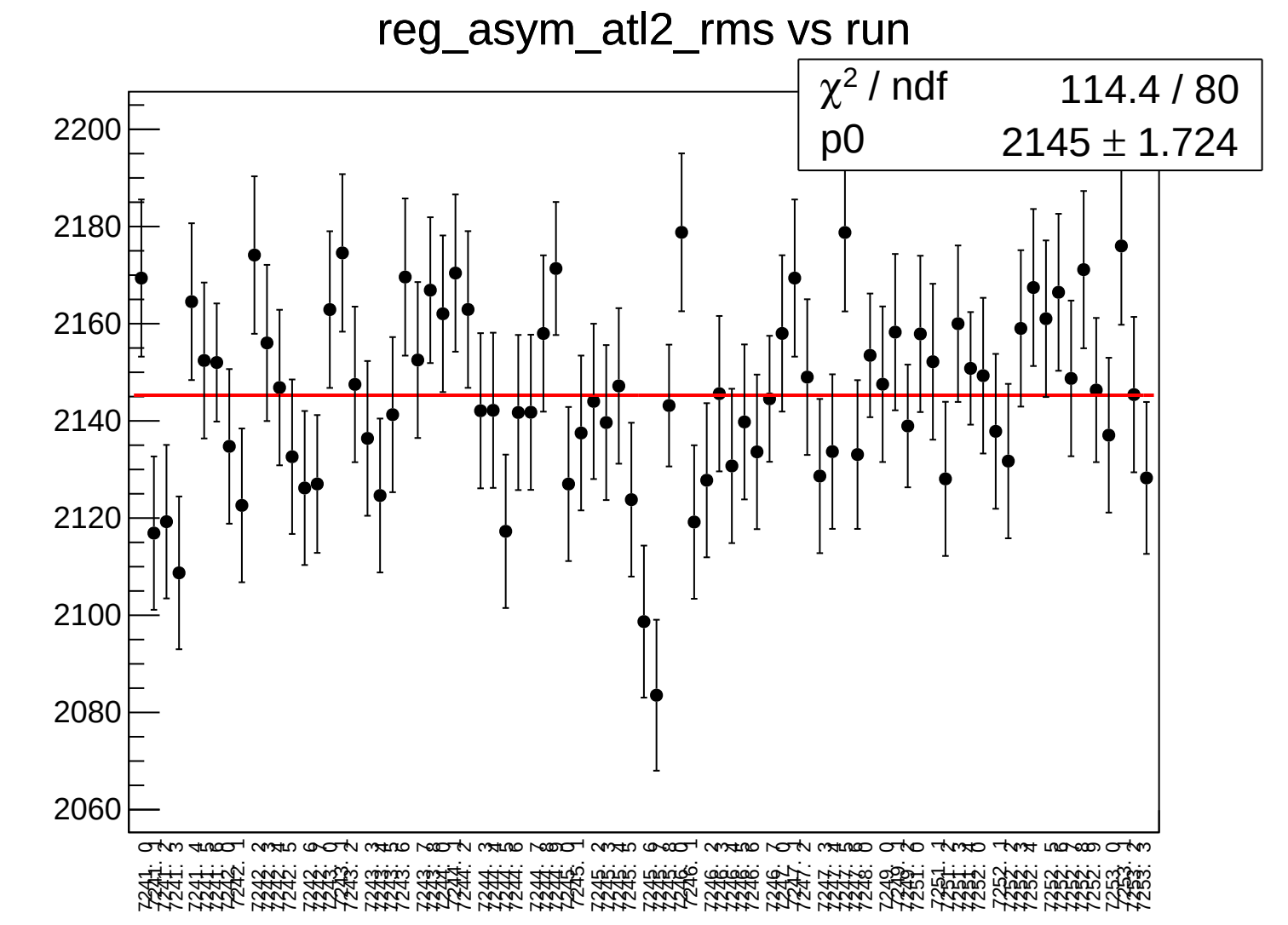

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.299e+05 / 80
p0 48.76 ± 0.04245
120
100
80
60
40
20

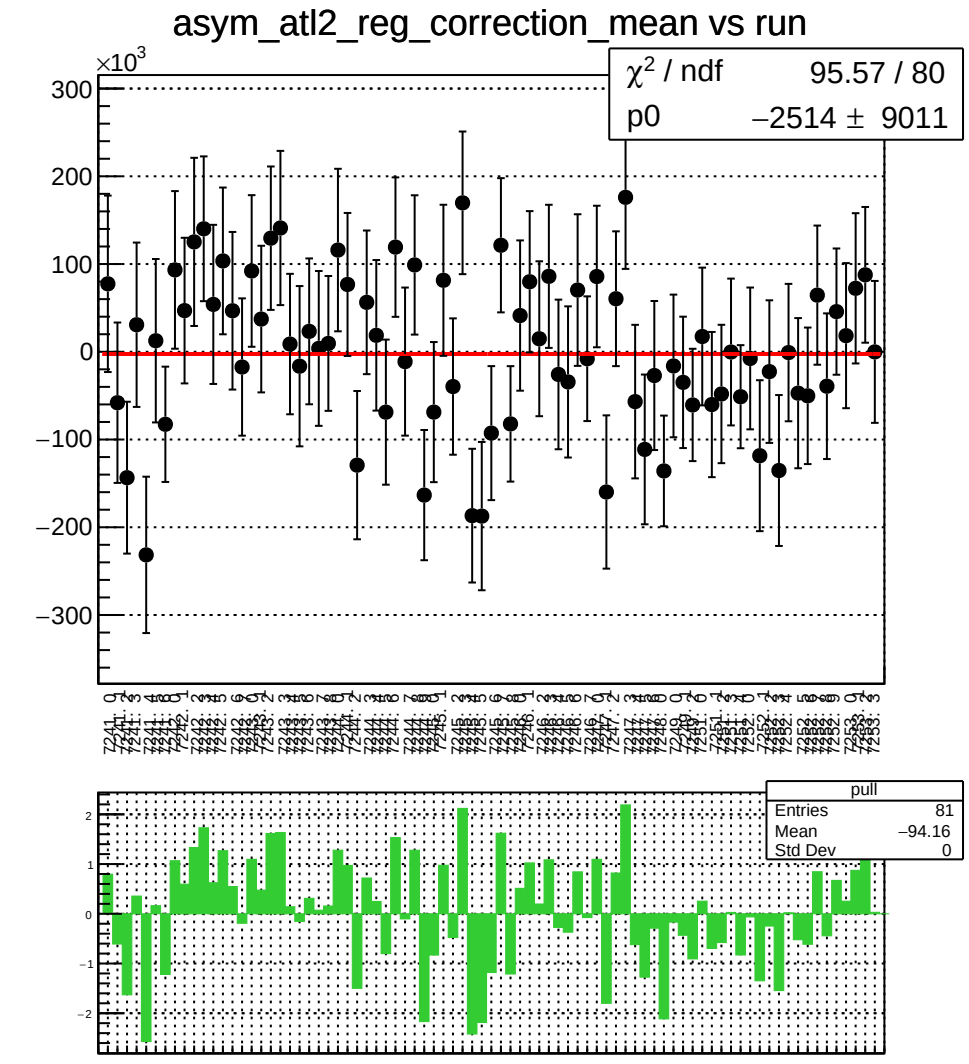

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.49 / 80
p0 9.876e−15 ± 1.122e−14
pull
Entries 81
Mean 75.12
Std Dev 0
pull1D
Entries 81
Mean −0.02645
Std Dev 0.9903

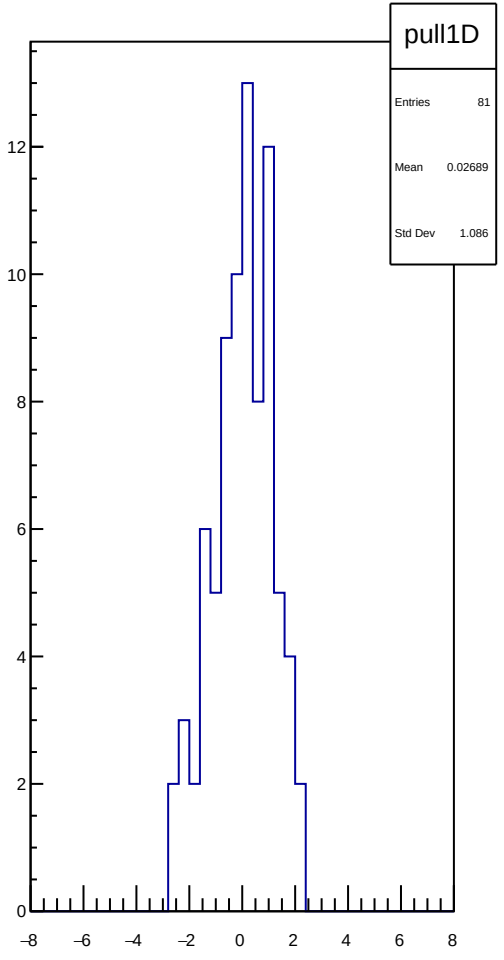

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
70
60
50
40
30
20
10
χ² / ndf 5.975e+05 / 80
p0 7.737e−12 ± 7.931e−15

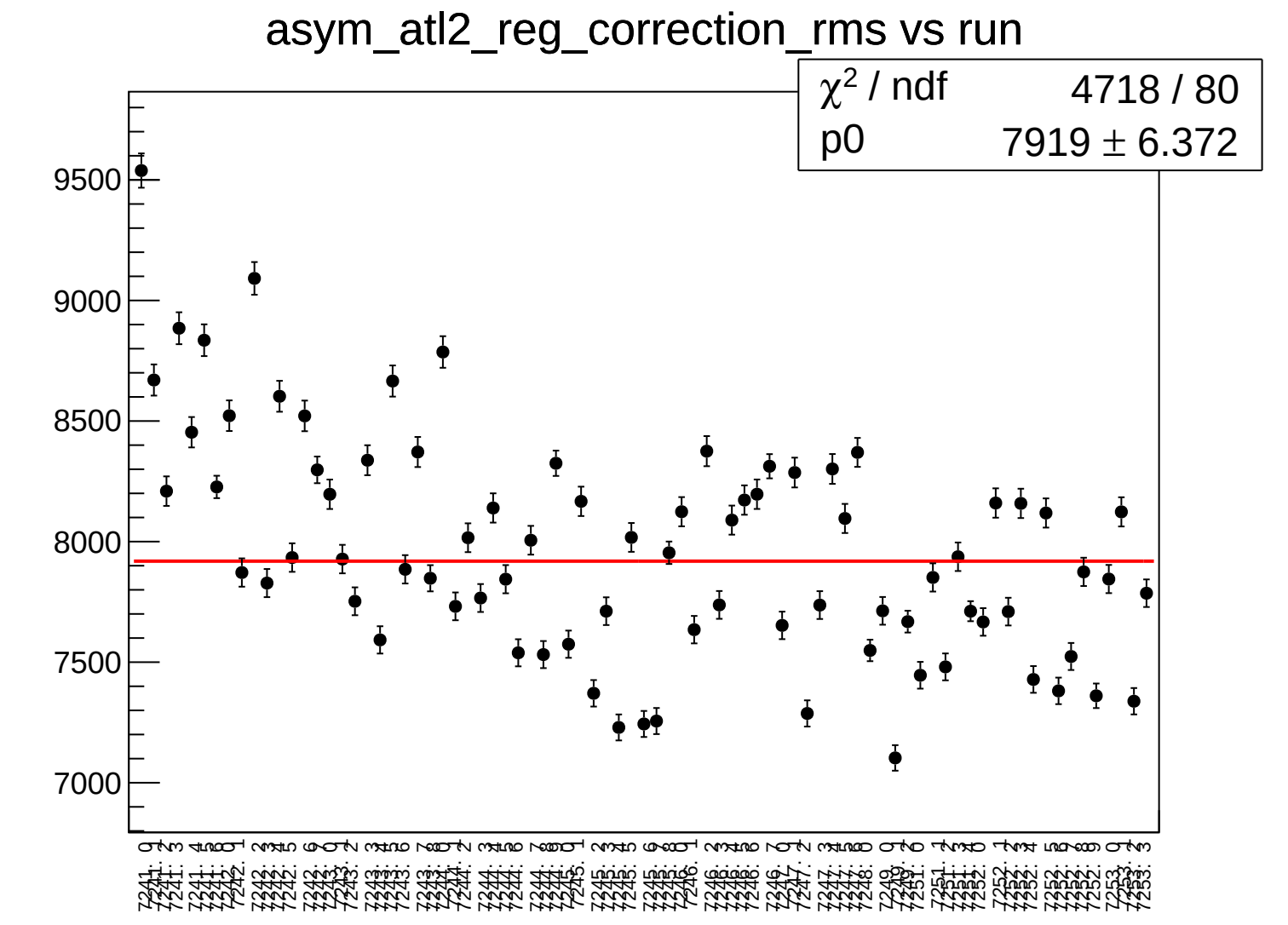

reg_asym_atl2_mean vs run
χ² / ndf 50.71 / 80
p0 1885 ± 2438
pull
Entries 81
Mean −4122
Std Dev 0

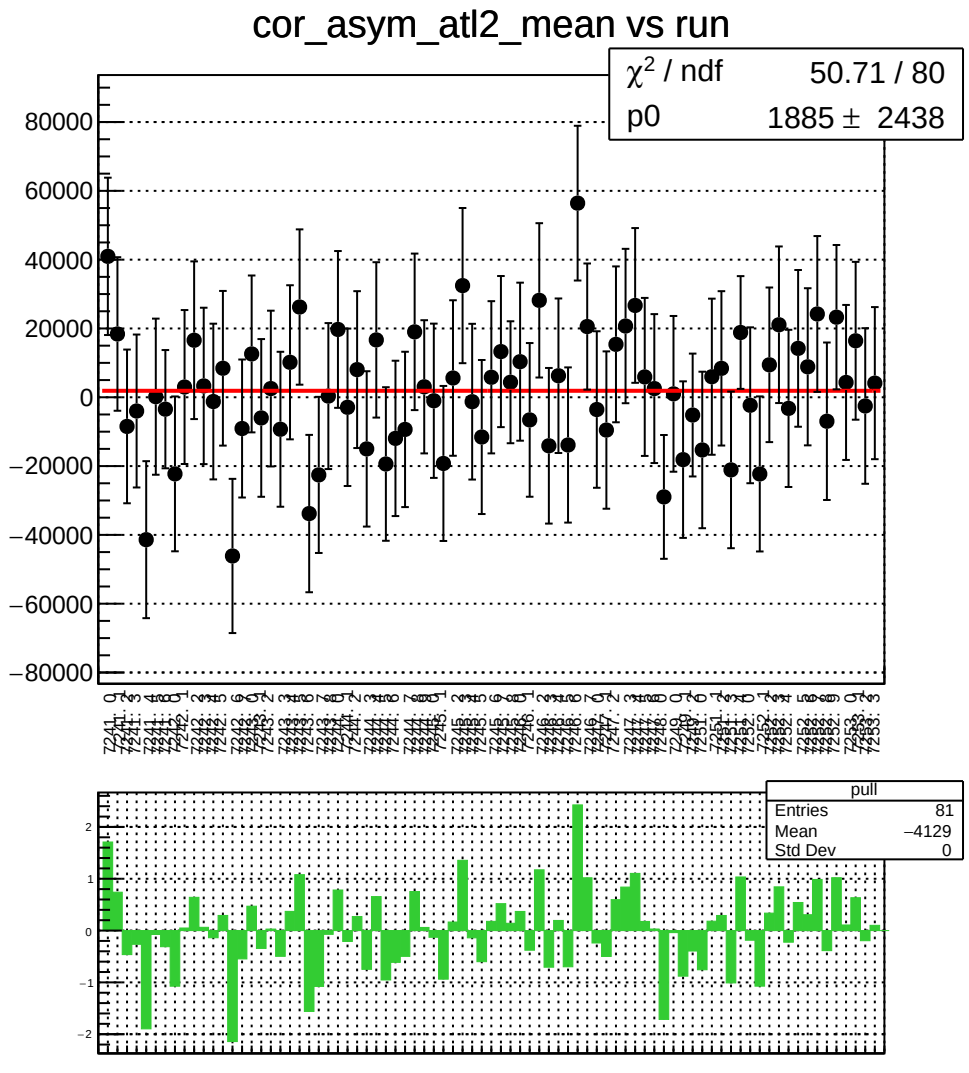

pull1D
Entries 81
Mean −0.0006678
Std Dev 0.7912

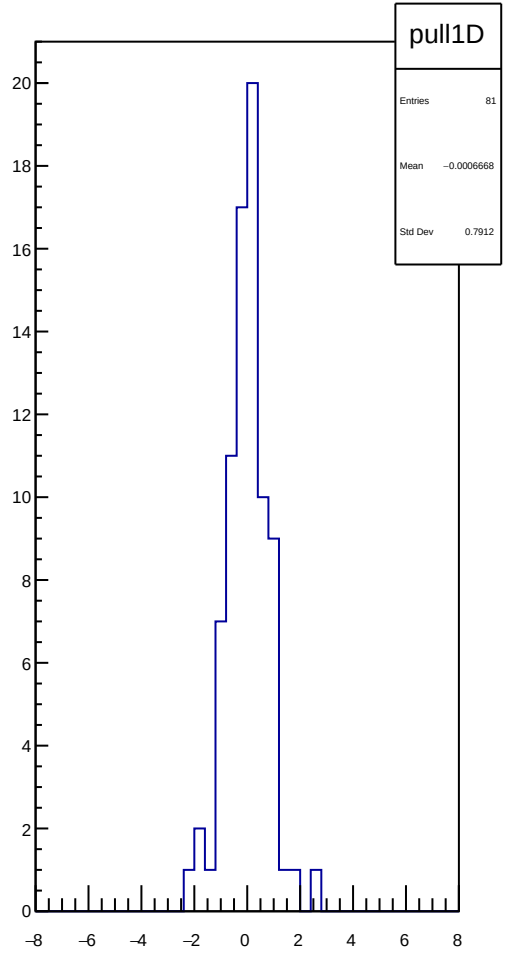

reg_asym_atl2_rms vs run
χ² / ndf 114.4 / 80
p0 2145 ± 1.724
2200
2180
2160
2140
2120
2100
2080
2060

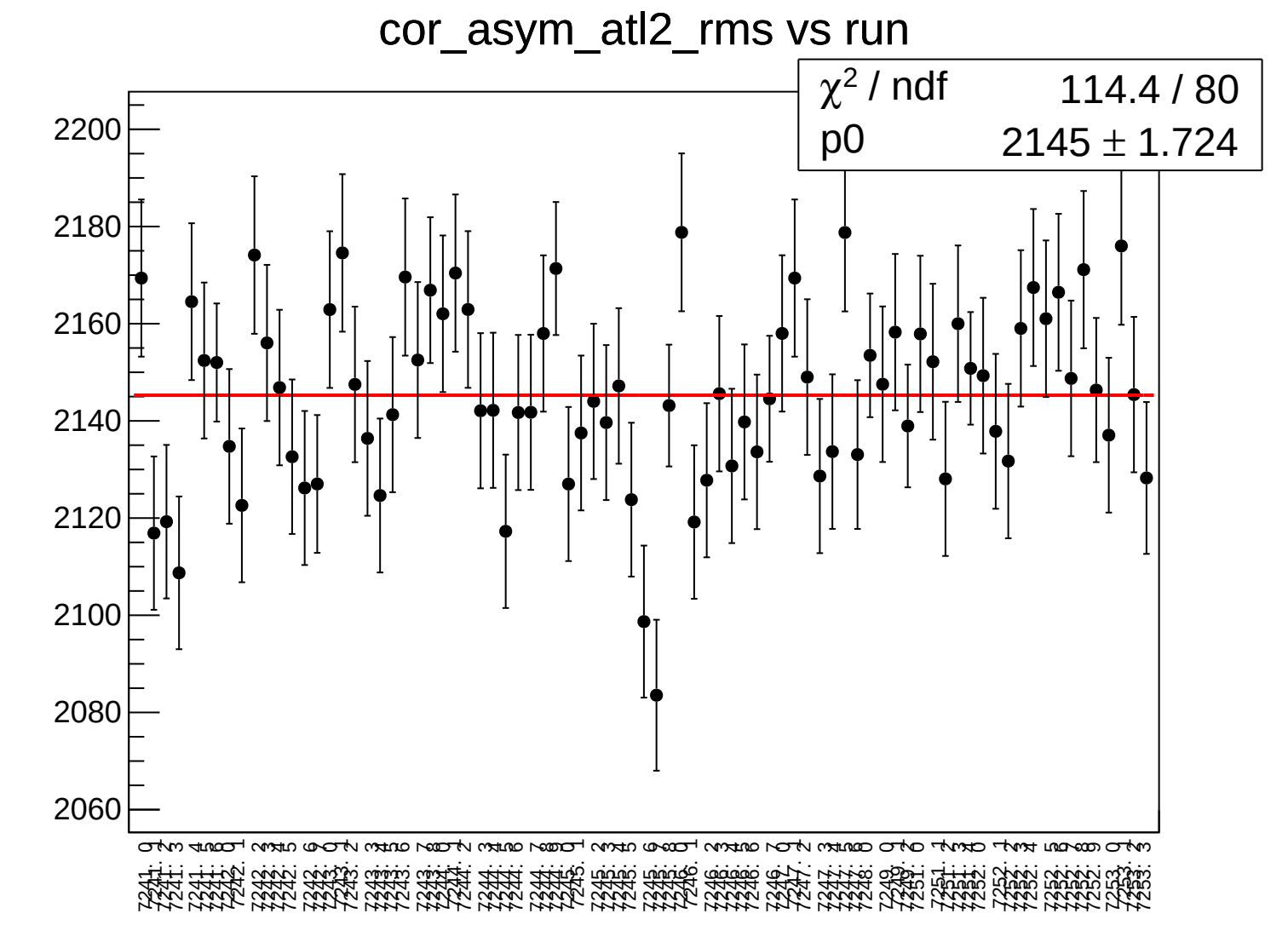

asym_atl2_reg_correction_mean vs run
×10^3
χ² / ndf 95.57 / 80
p0 −2514 ± 9011
300
200
100
0
−100
−200
−300
pull
Entries 81
Mean −94.16
Std Dev 0
2
1
0
−1
−2

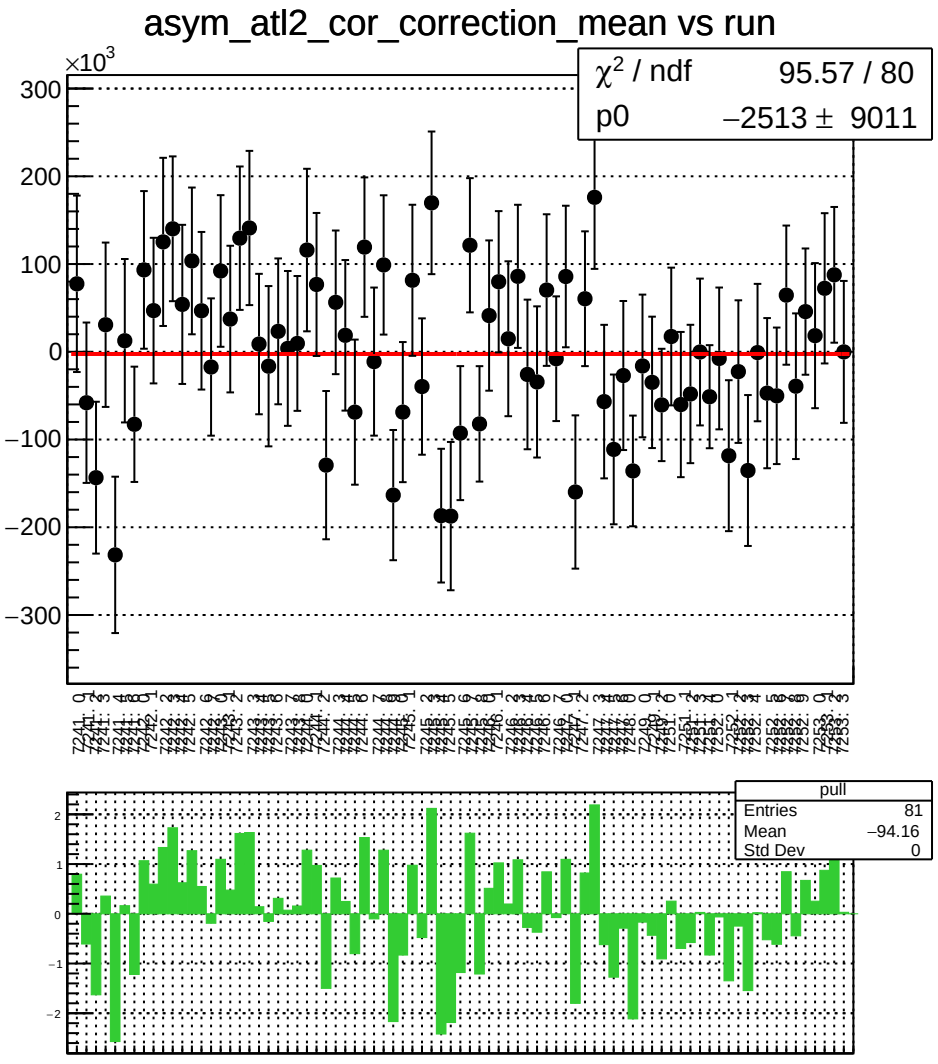

pull1D
Entries 81
Mean 0.02689
Std Dev 1.086
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

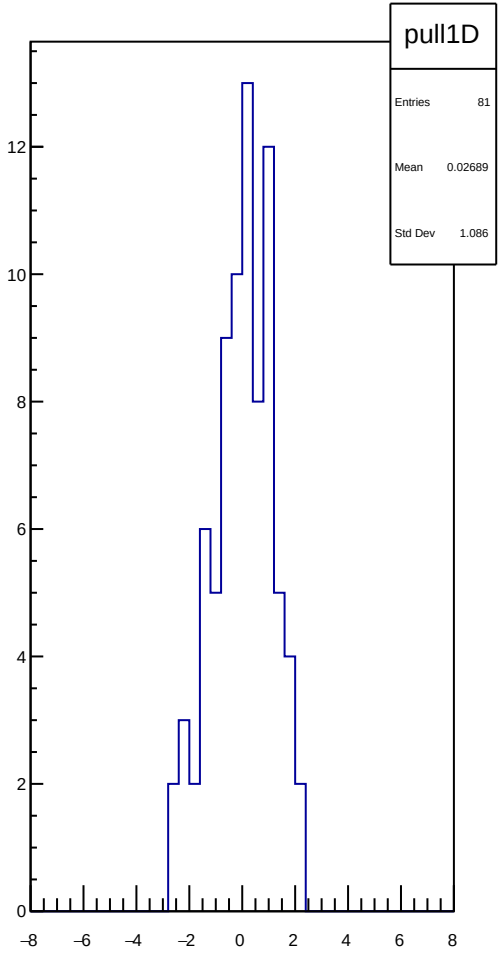

asym_atl2_reg_correction_rms vs run
χ² / ndf 4718 / 80
p0 7919 ± 6.372
9500
9000
8500
8000
7500
7000

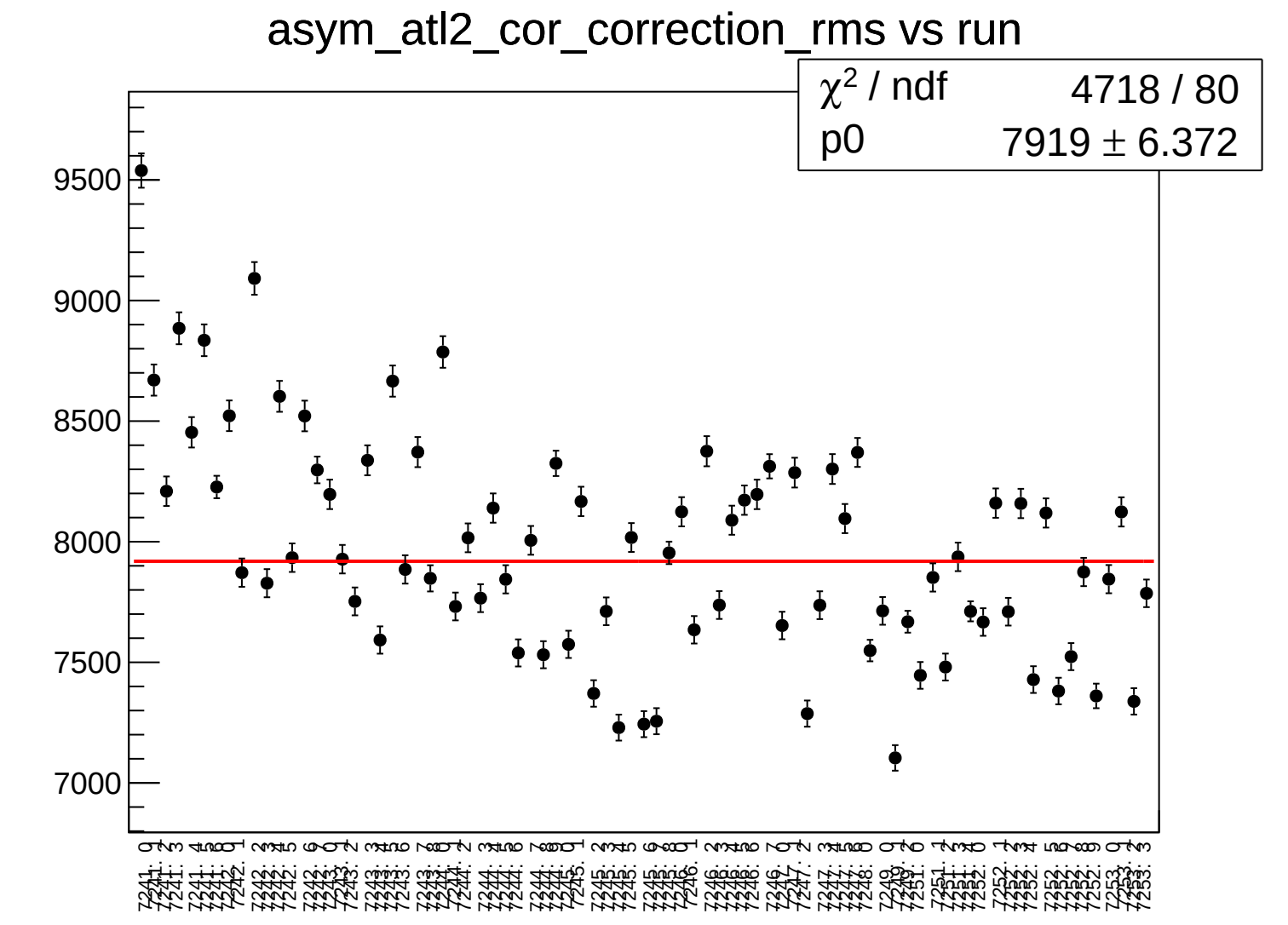

cor_asym_atl2_mean vs run
χ² / ndf 50.71 / 80
p0 1885 ± 2438
pull
Entries 81
Mean −4129
Std Dev 0

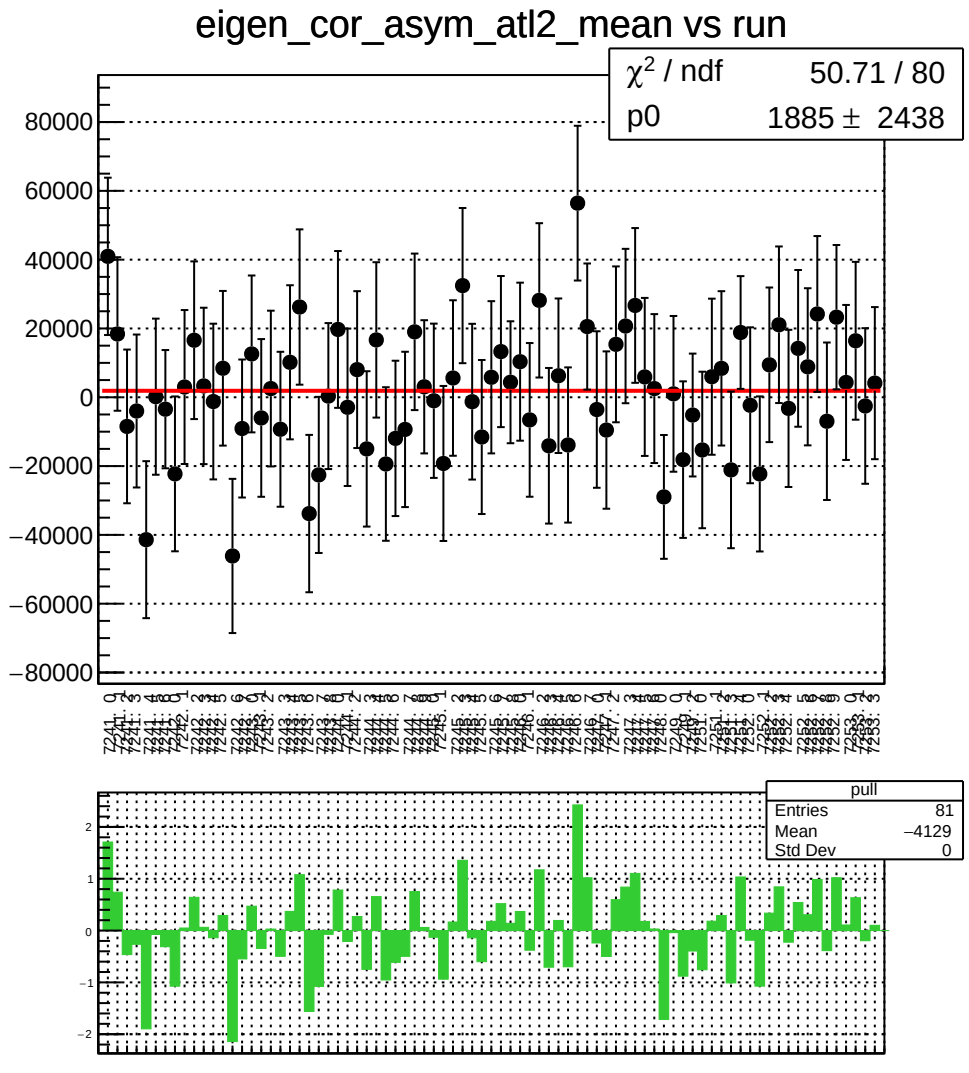

pull1D
Entries 81
Mean −0.0006668
Std Dev 0.7912

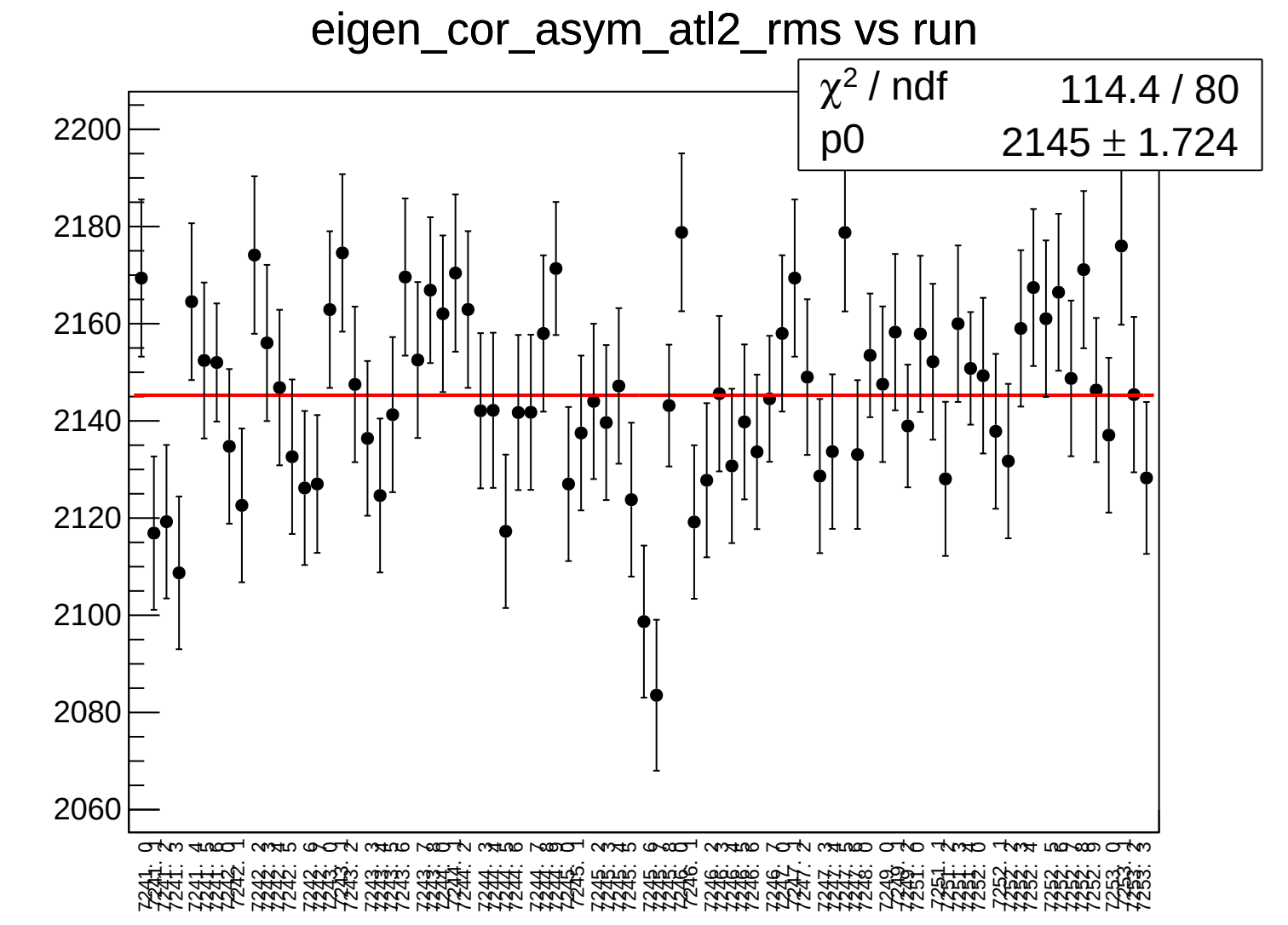

cor_asym_atl2_rms vs run
χ² / ndf 114.4 / 80
p0 2145 ± 1.724
2200
2180
2160
2140
2120
2100
2080
2060

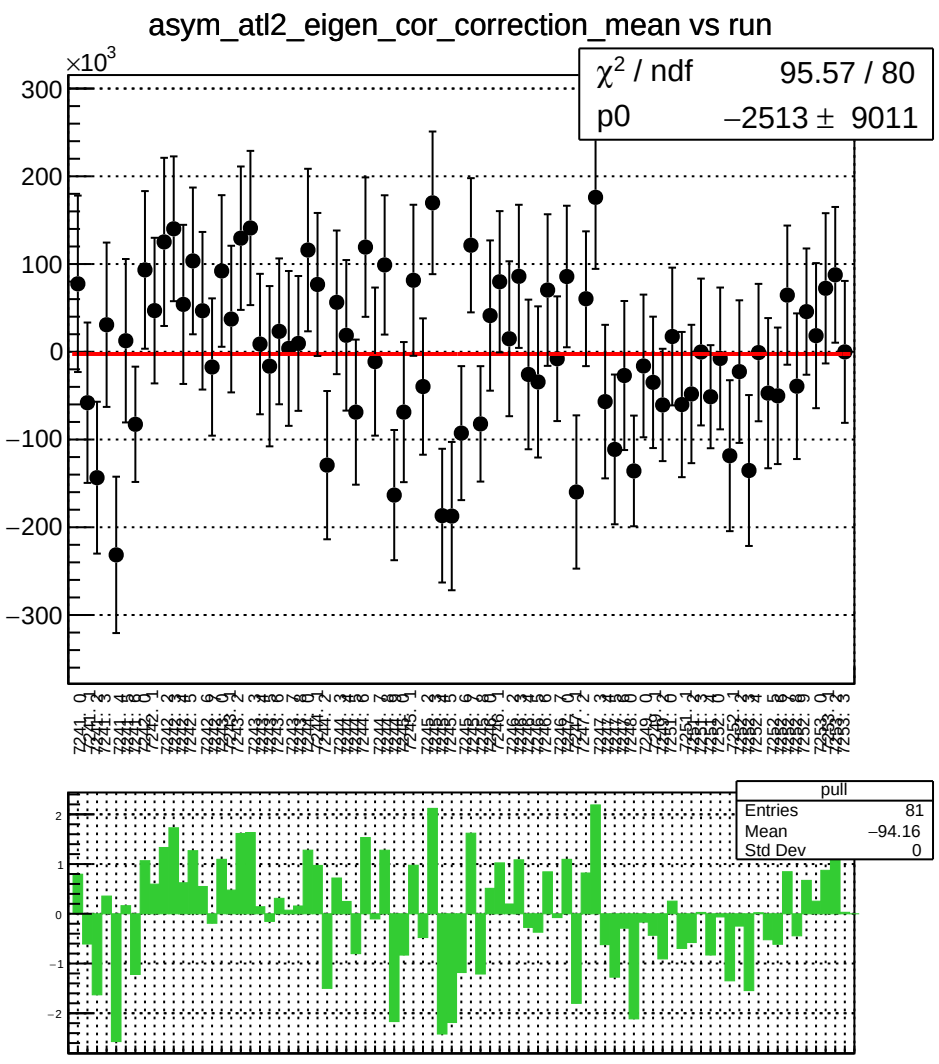

asym_atl2_cor_correction_mean vs run
×10^3
χ² / ndf 95.57 / 80
p0 −2513 ± 9011
pull
Entries 81
Mean −94.16
Std Dev 0

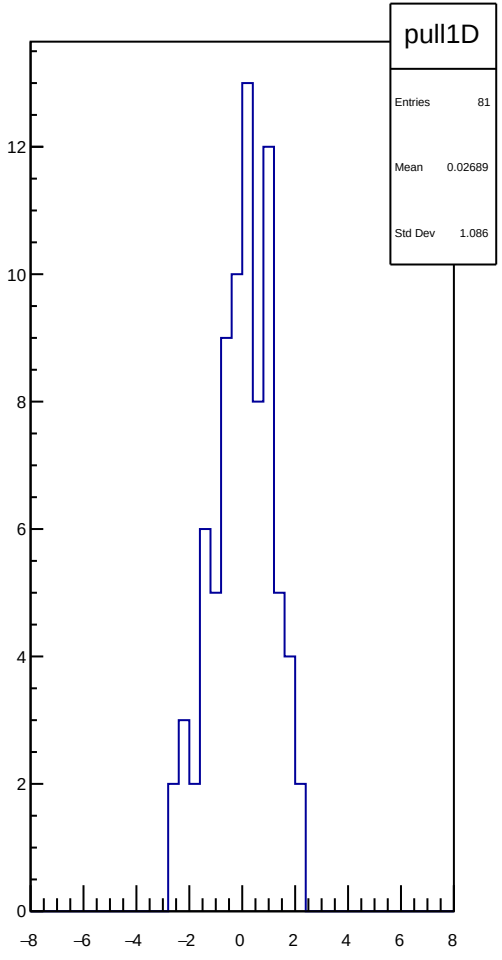

pull1D
Entries 81
Mean 0.02689
Std Dev 1.086

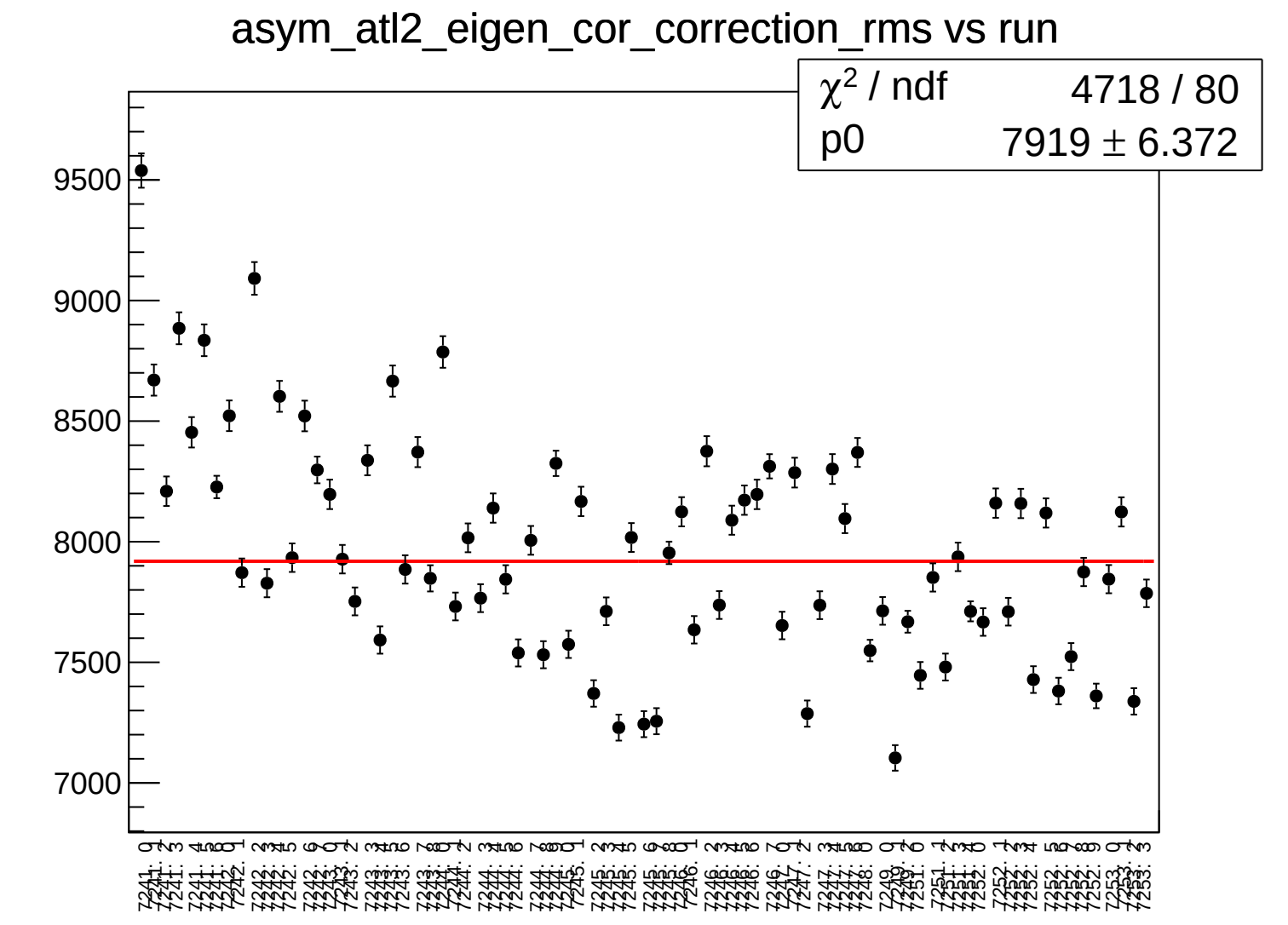

asym_atl2_cor_correction_rms vs run
χ² / ndf 4718 / 80
p0 7919 ± 6.372
9500
9000
8500
8000
7500
7000

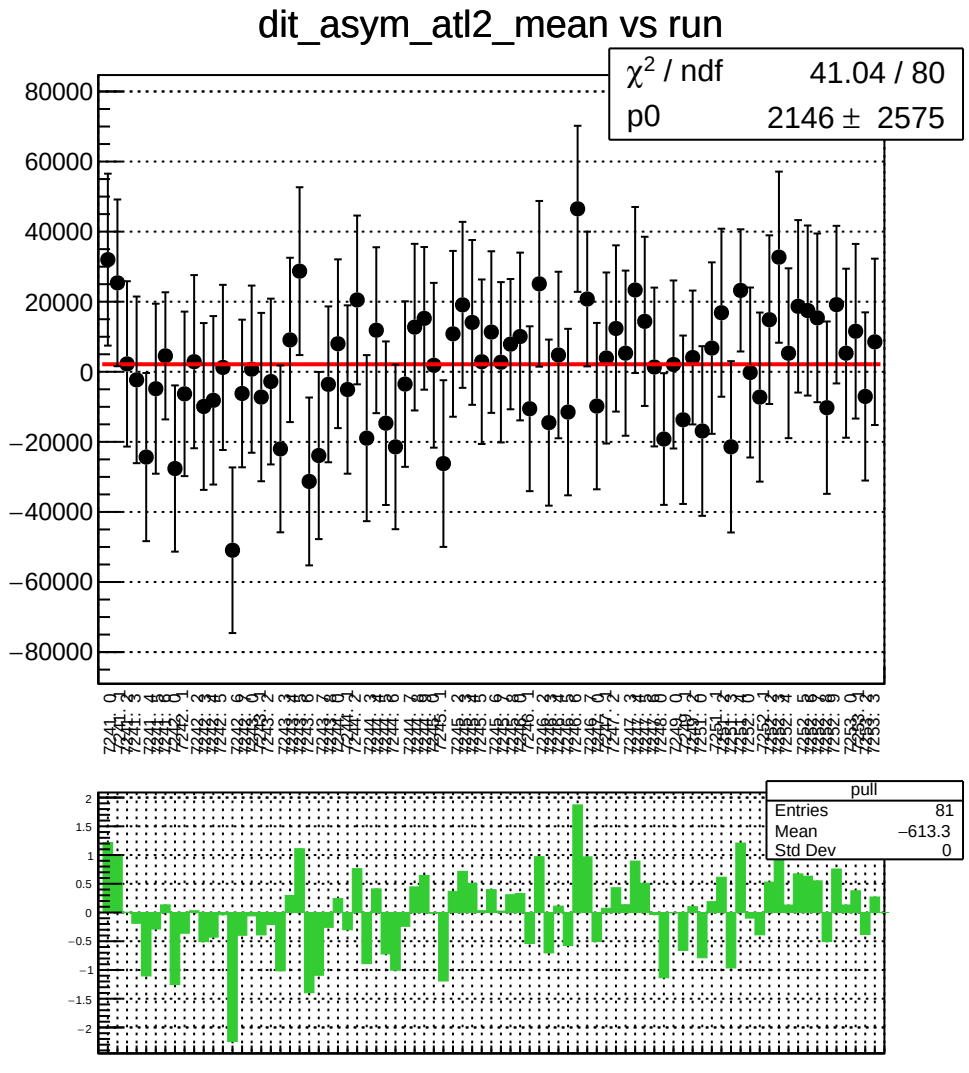

eigen_cor_asym_atl2_mean vs run
χ² / ndf 50.71 / 80
p0 1885 ± 2438
pull
Entries 81
Mean −4129
Std Dev 0
pull1D
Entries 81
Mean −0.0006668
Std Dev 0.7912

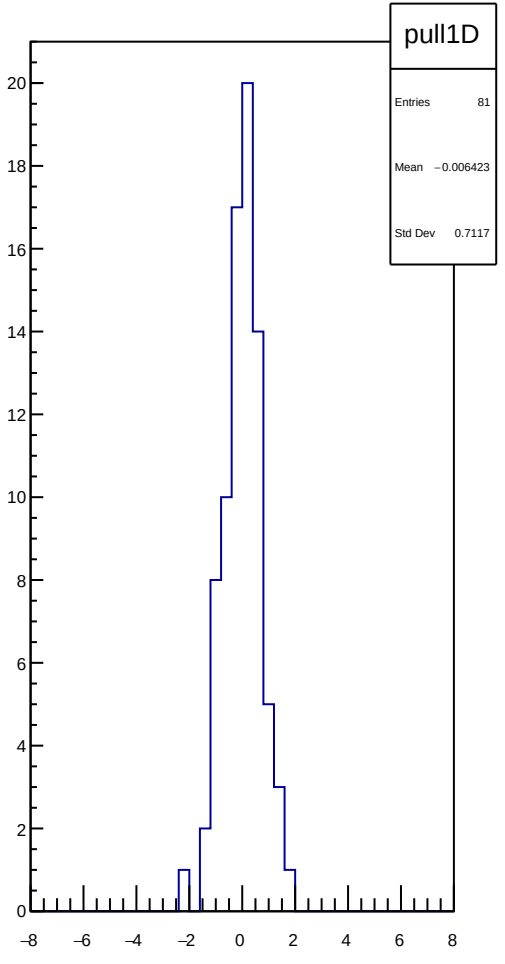

eigen_cor_asym_atl2_rms vs run
χ² / ndf 114.4 / 80
p0 2145 ± 1.724
2200
2180
2160
2140
2120
2100
2080
2060

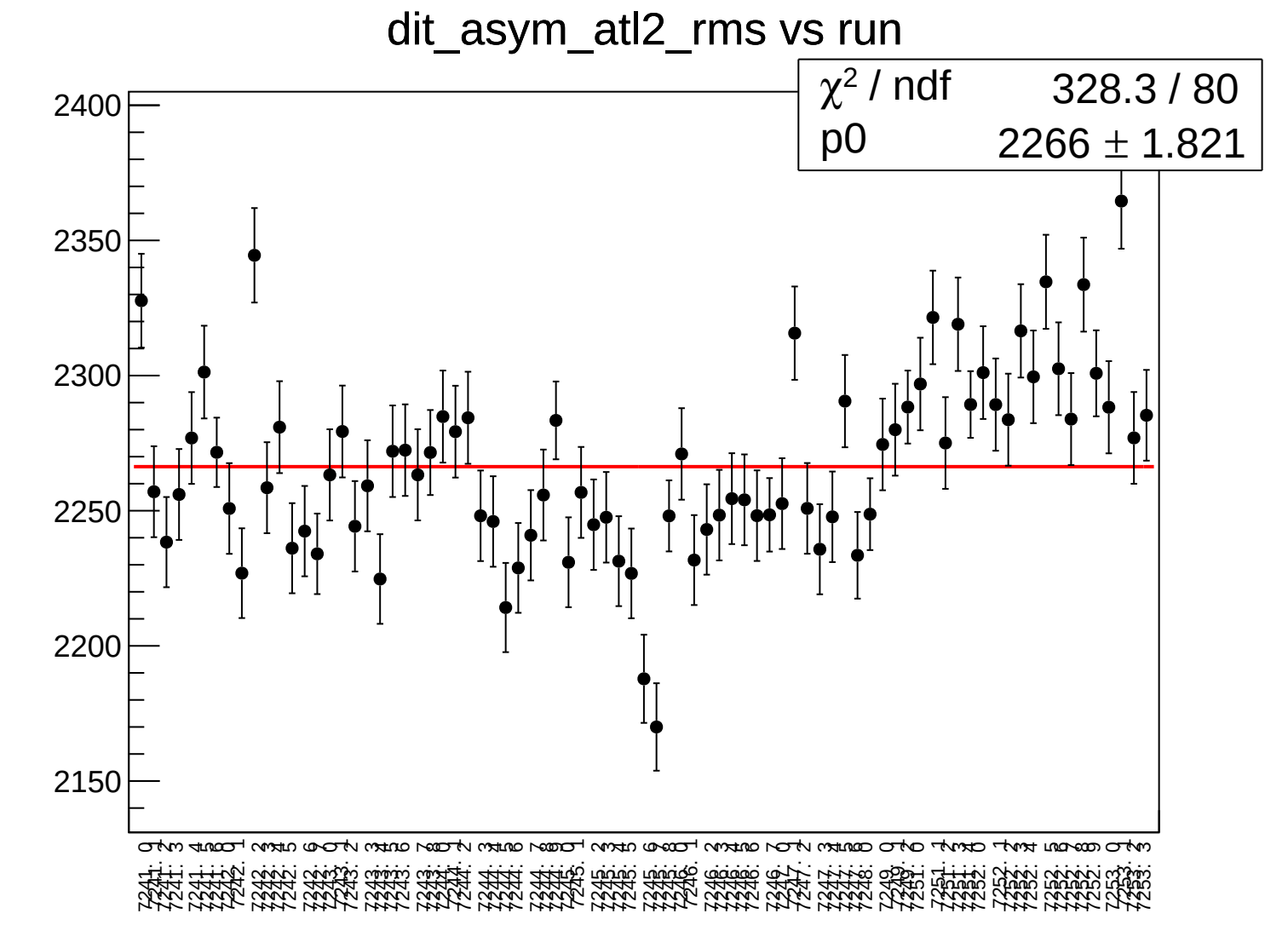

asym_atl2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 95.57 / 80
p0 −2513 ± 9011
pull
Entries 81
Mean −94.16
Std Dev 0

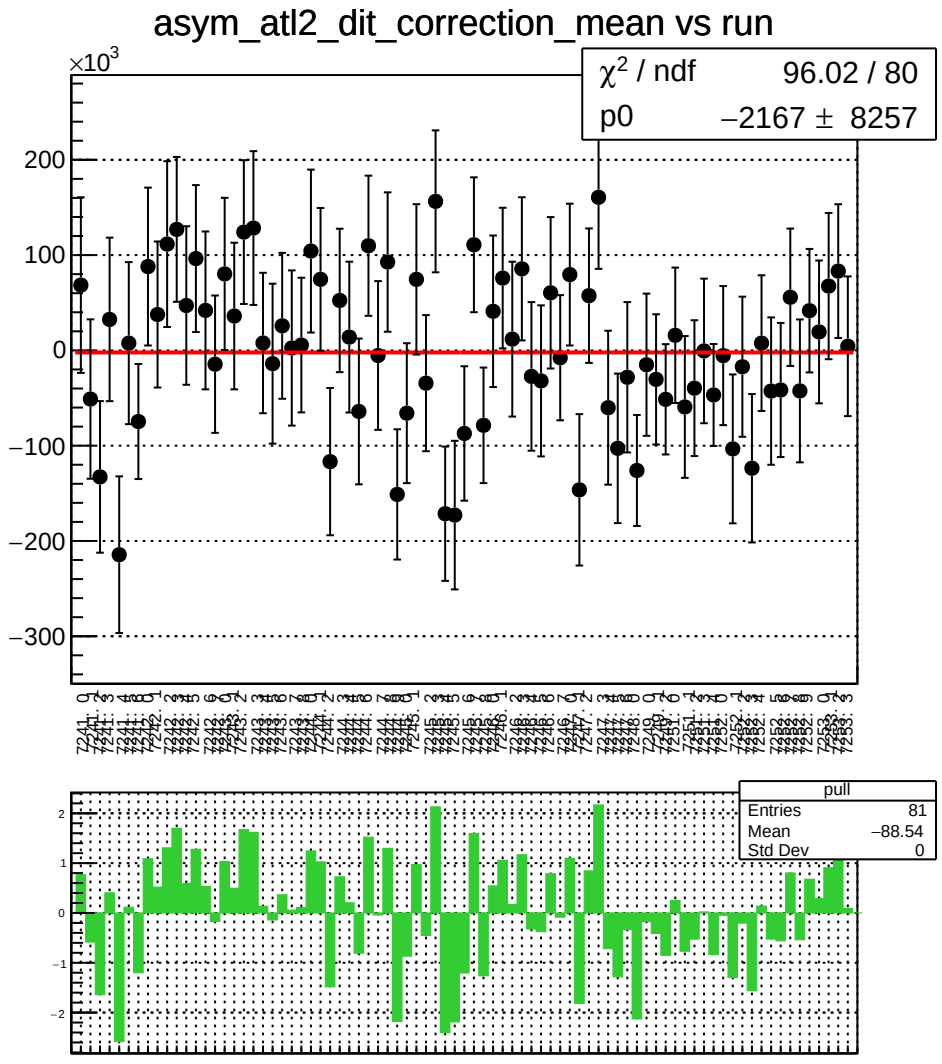

pull1D
Entries 81
Mean 0.02689
Std Dev 1.086

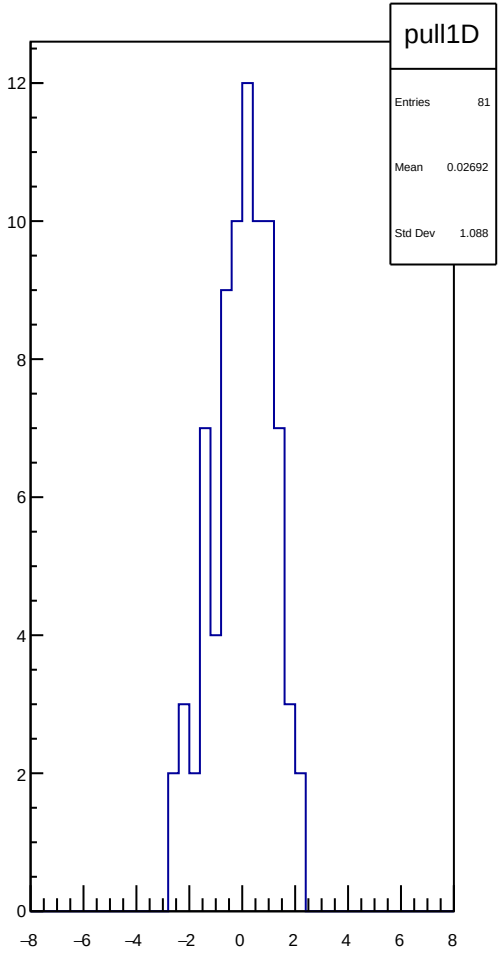

asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 4718 / 80
p0 7919 ± 6.372
9500
9000
8500
8000
7500
7000

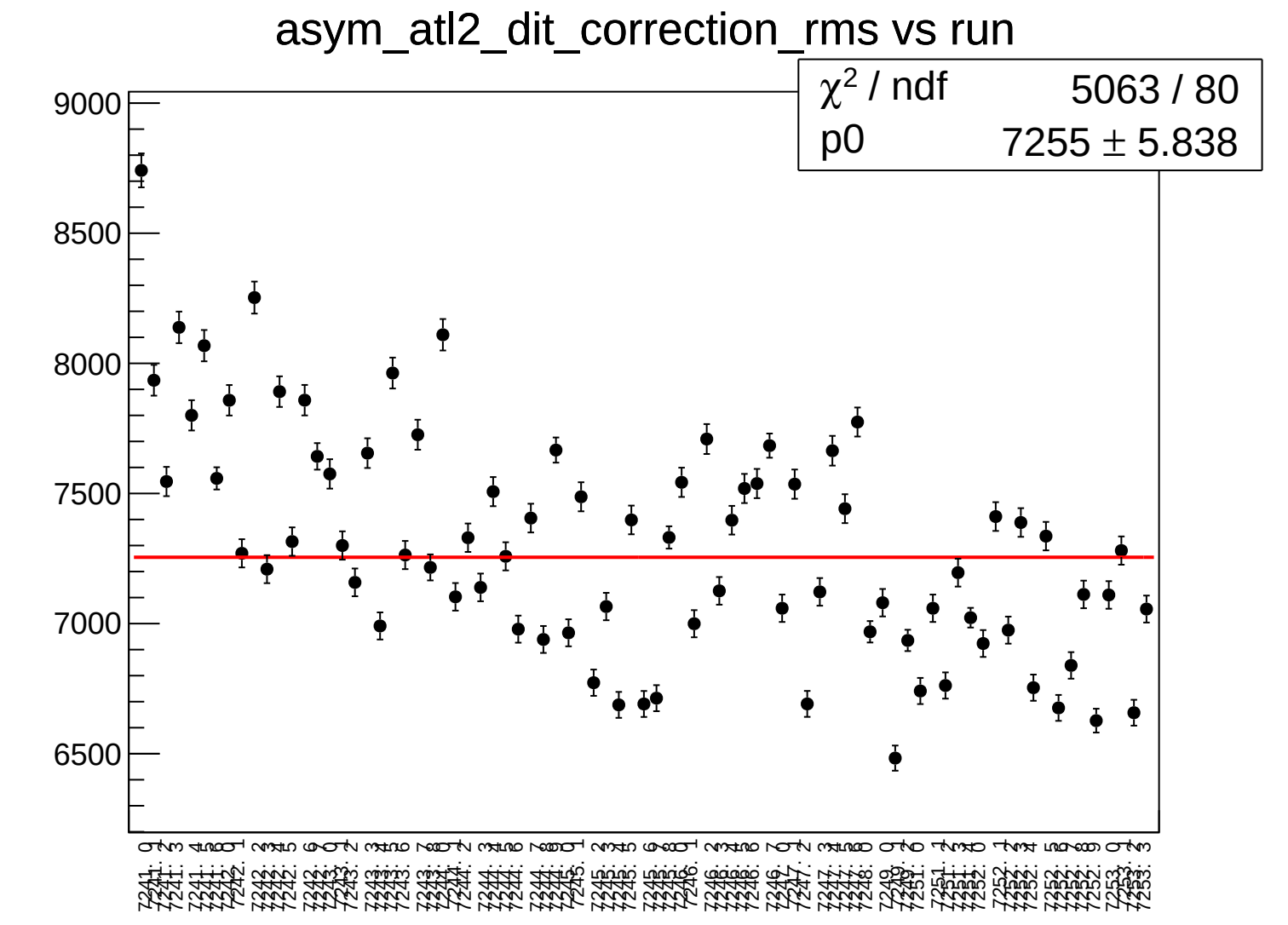

dit_asym_atl2_mean vs run
χ² / ndf 41.04 / 80
p0 2146 ± 2575
pull
Entries 81
Mean −613.3
Std Dev 0

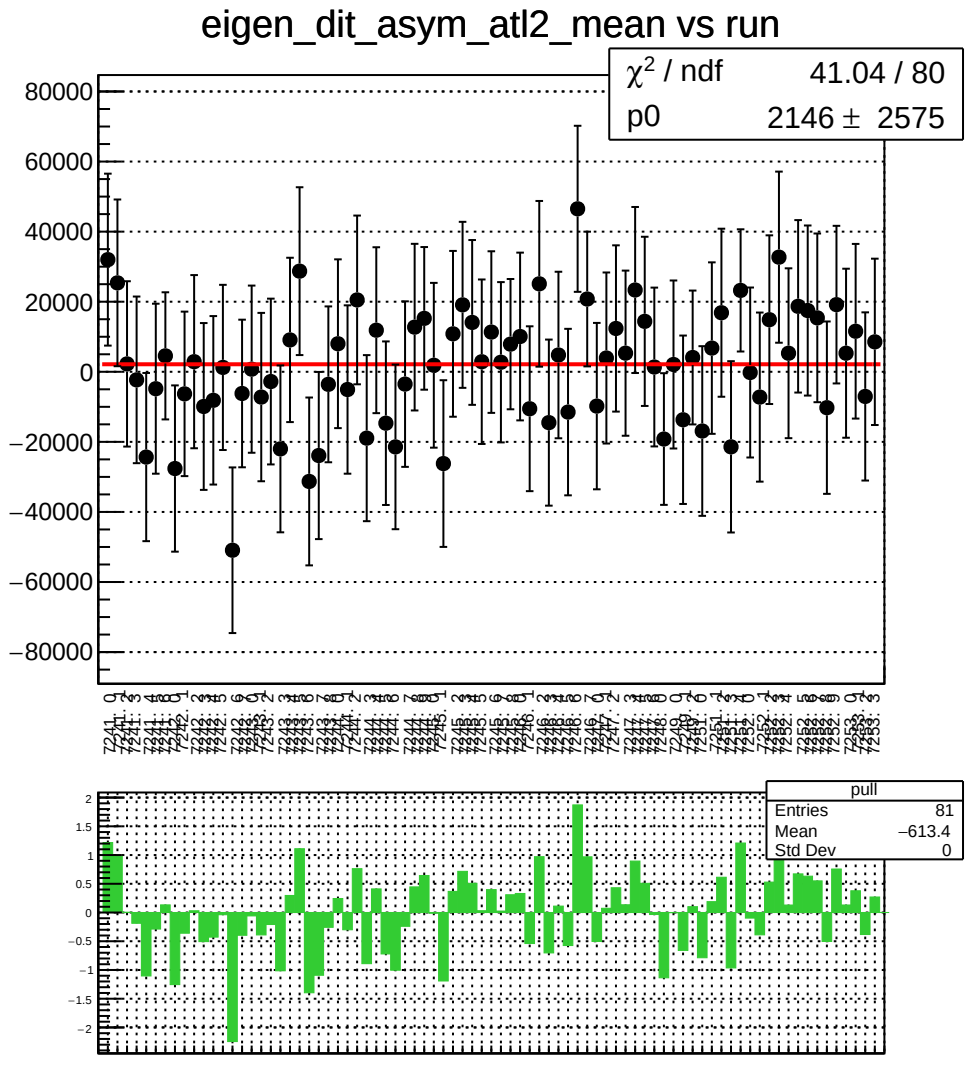

pull1D
Entries 81
Mean −0.006423
Std Dev 0.7117

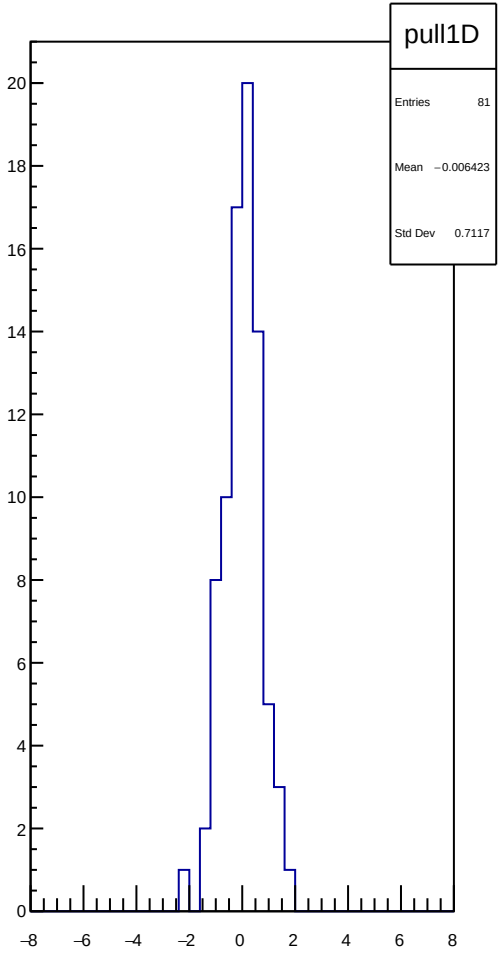

dit_asym_atl2_rms vs run
χ² / ndf 328.3 / 80
p0 2266 ± 1.821
2400
2350
2300
2250
2200
2150

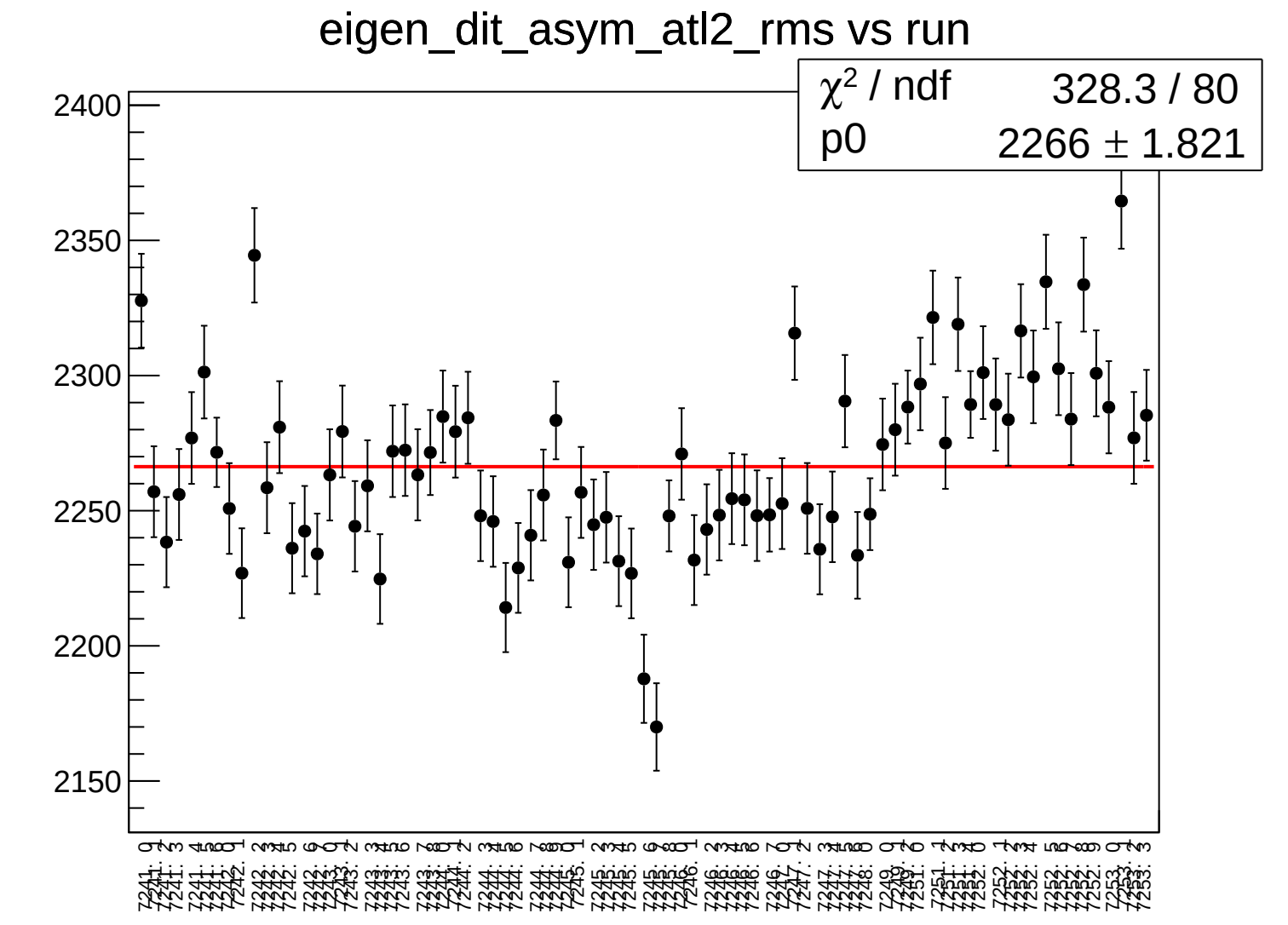

asym_atl2_dit_correction_mean vs run
×10^3
χ² / ndf 96.02 / 80
p0 −2167 ± 8257
200
100
0
−100
−200
−300
pull
Entries 81
Mean −88.54
Std Dev 0
2
1
0
−1
−2

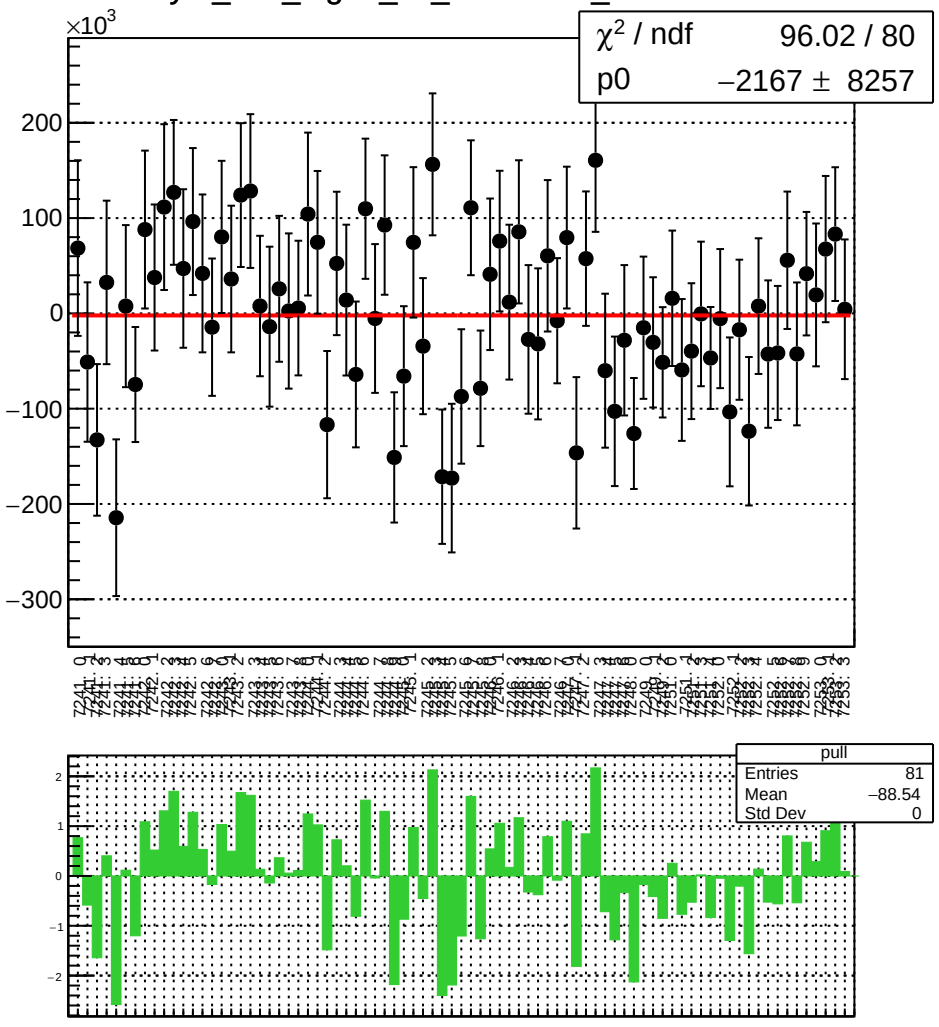

pull1D
Entries 81
Mean 0.02692
Std Dev 1.088
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

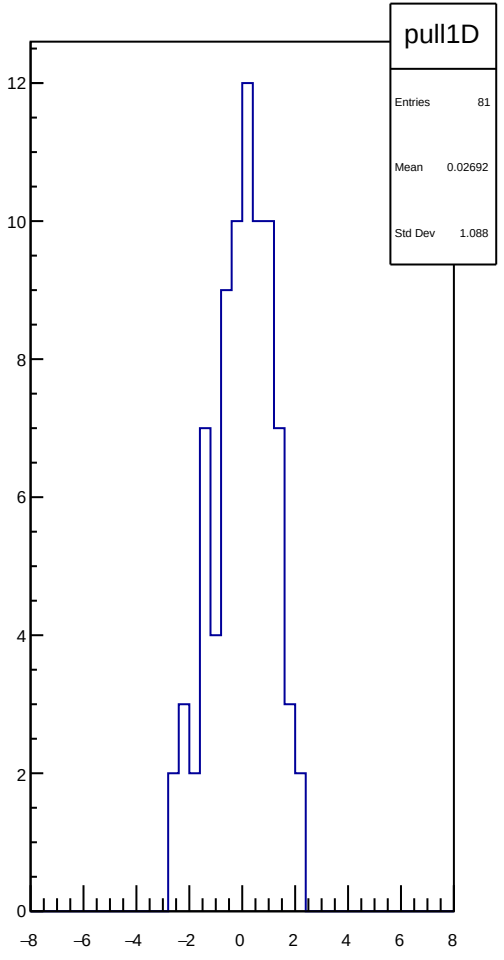

asym_atl2_dit_correction_rms vs run
χ² / ndf 5063 / 80
p0 7255 ± 5.838
9000
8500
8000
7500
7000
6500

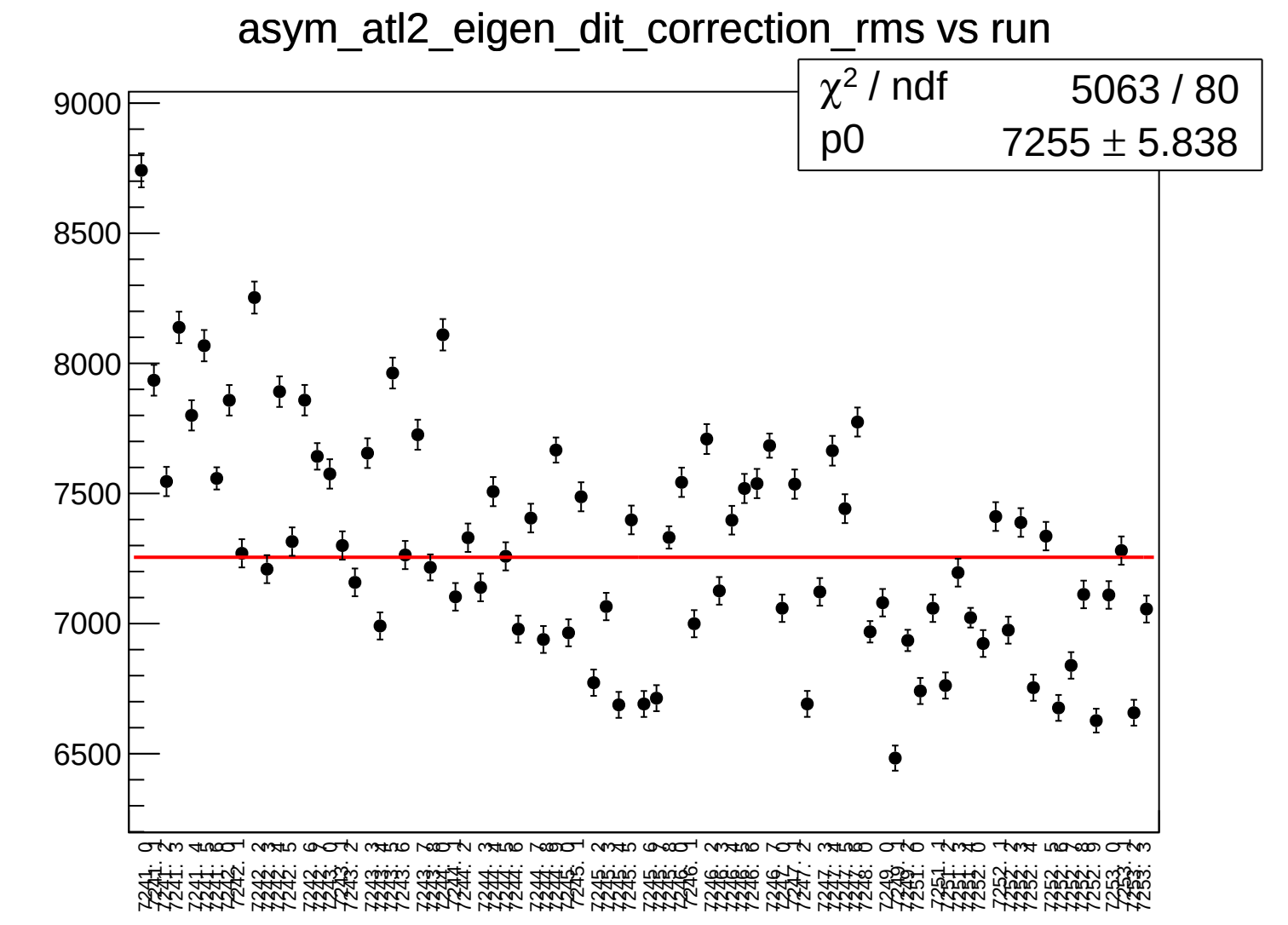

eigen_dit_asym_atl2_mean vs run
χ² / ndf 41.04 / 80
p0 2146 ± 2575
pull
Entries 81
Mean −613.4
Std Dev 0

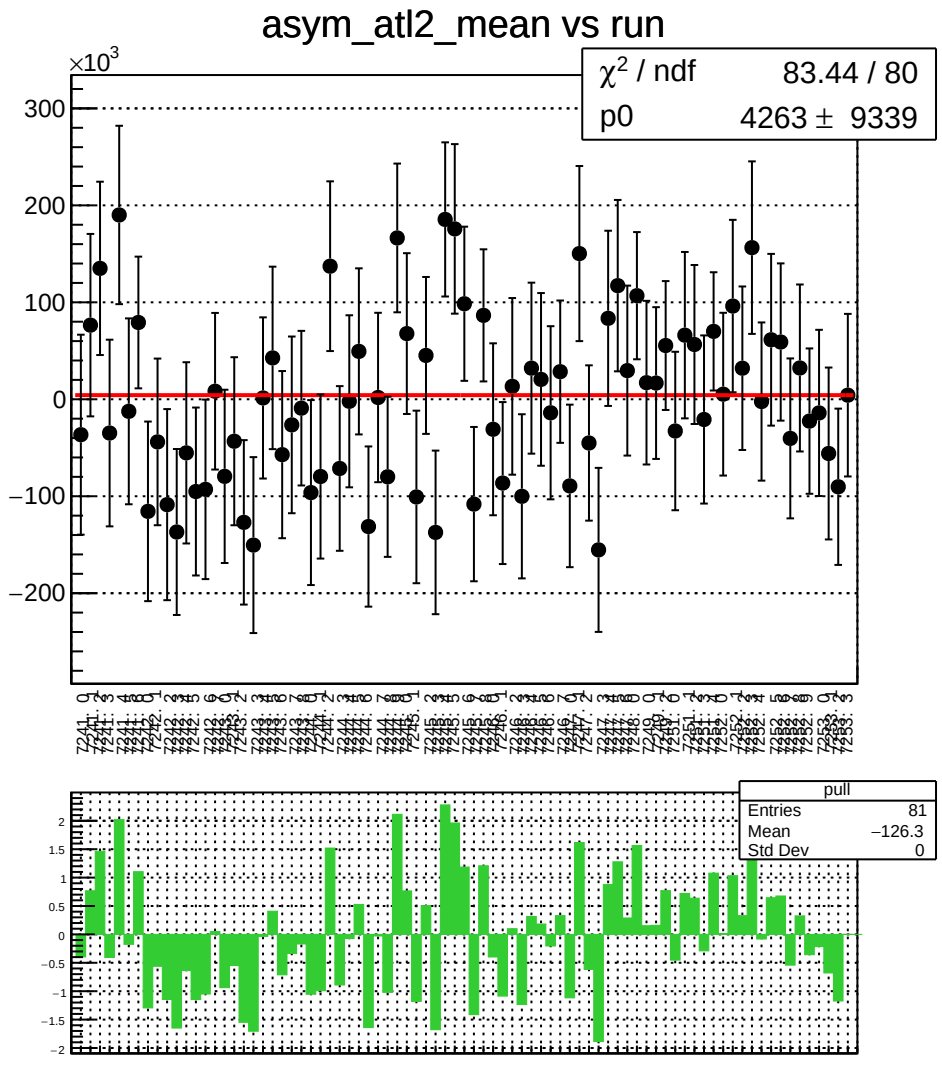

pull1D
Entries 81
Mean −0.006423
Std Dev 0.7117

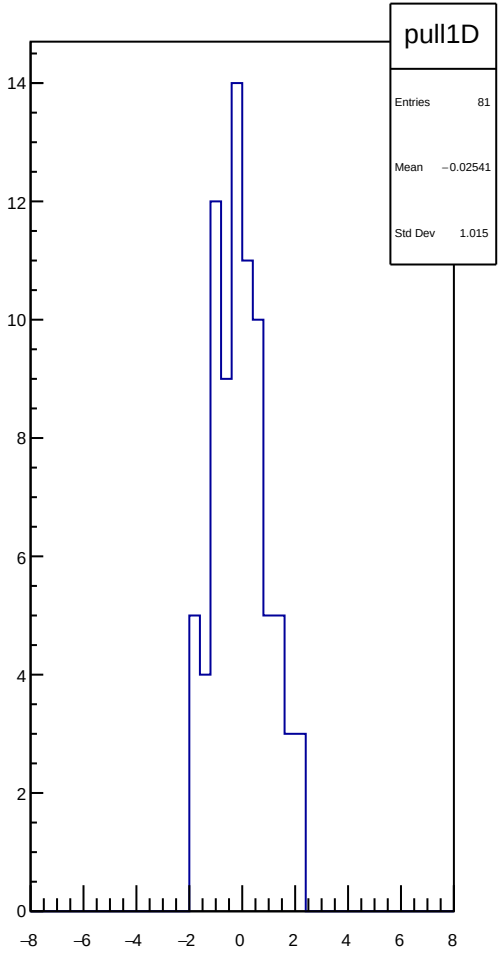

eigen_dit_asym_atl2_rms vs run
χ² / ndf 328.3 / 80
p0 2266 ± 1.821
2400
2350
2300
2250
2200
2150

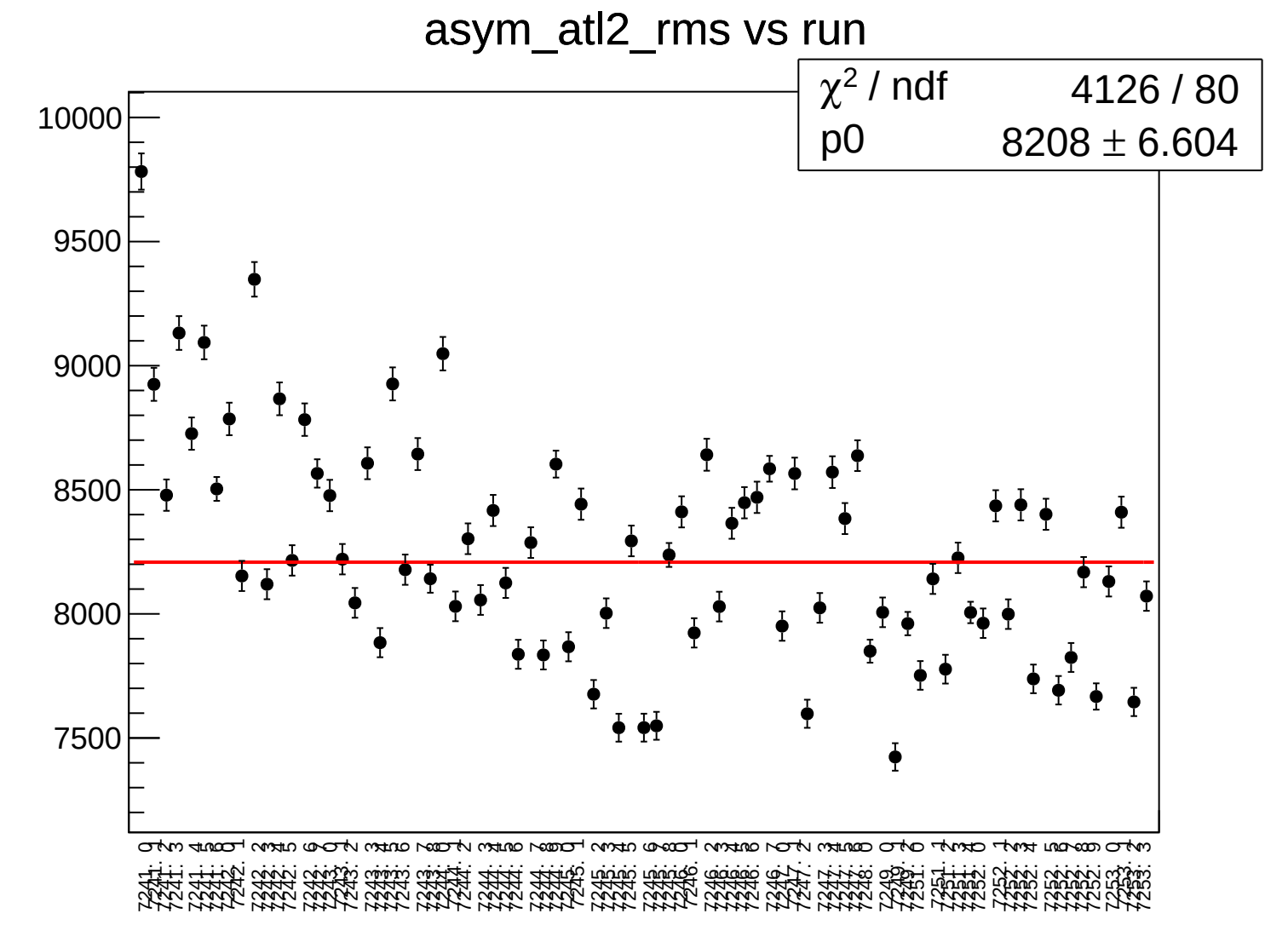

asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.02 / 80
p0 −2167 ± 8257
200
100
0
−100
−200
−300
pull
Entries 81
Mean −88.54
Std Dev 0
2
1
0
−1
−2

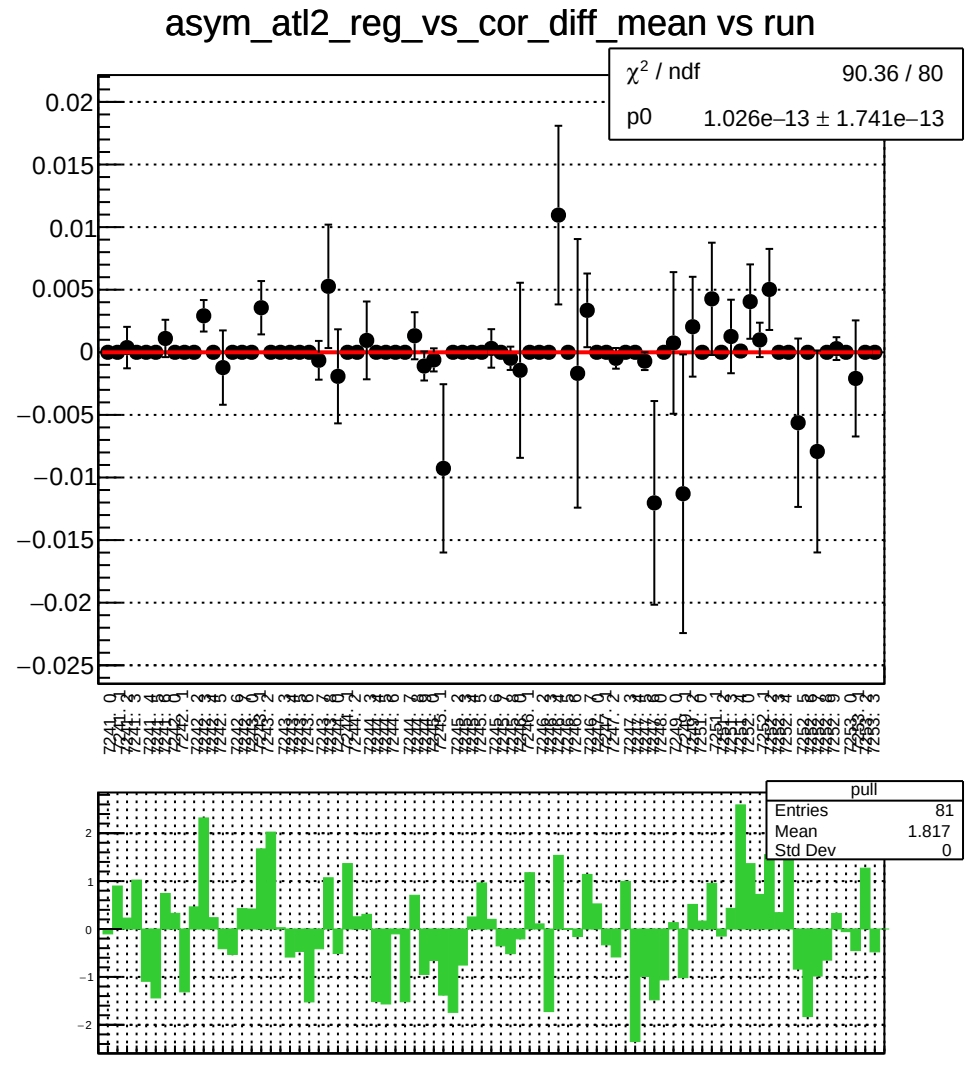

pull1D
Entries 81
Mean 0.02692
Std Dev 1.088
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

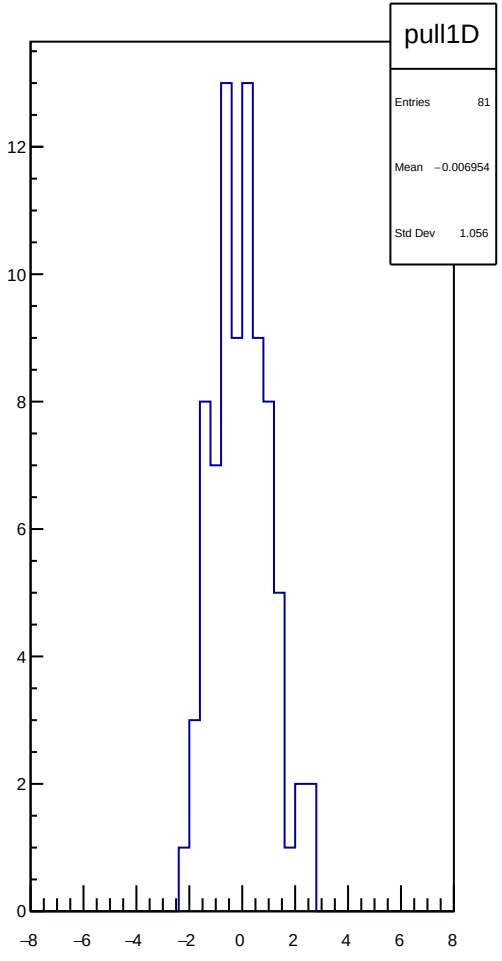

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 5063 / 80
p0 7255 ± 5.838
9000
8500
8000
7500
7000
6500

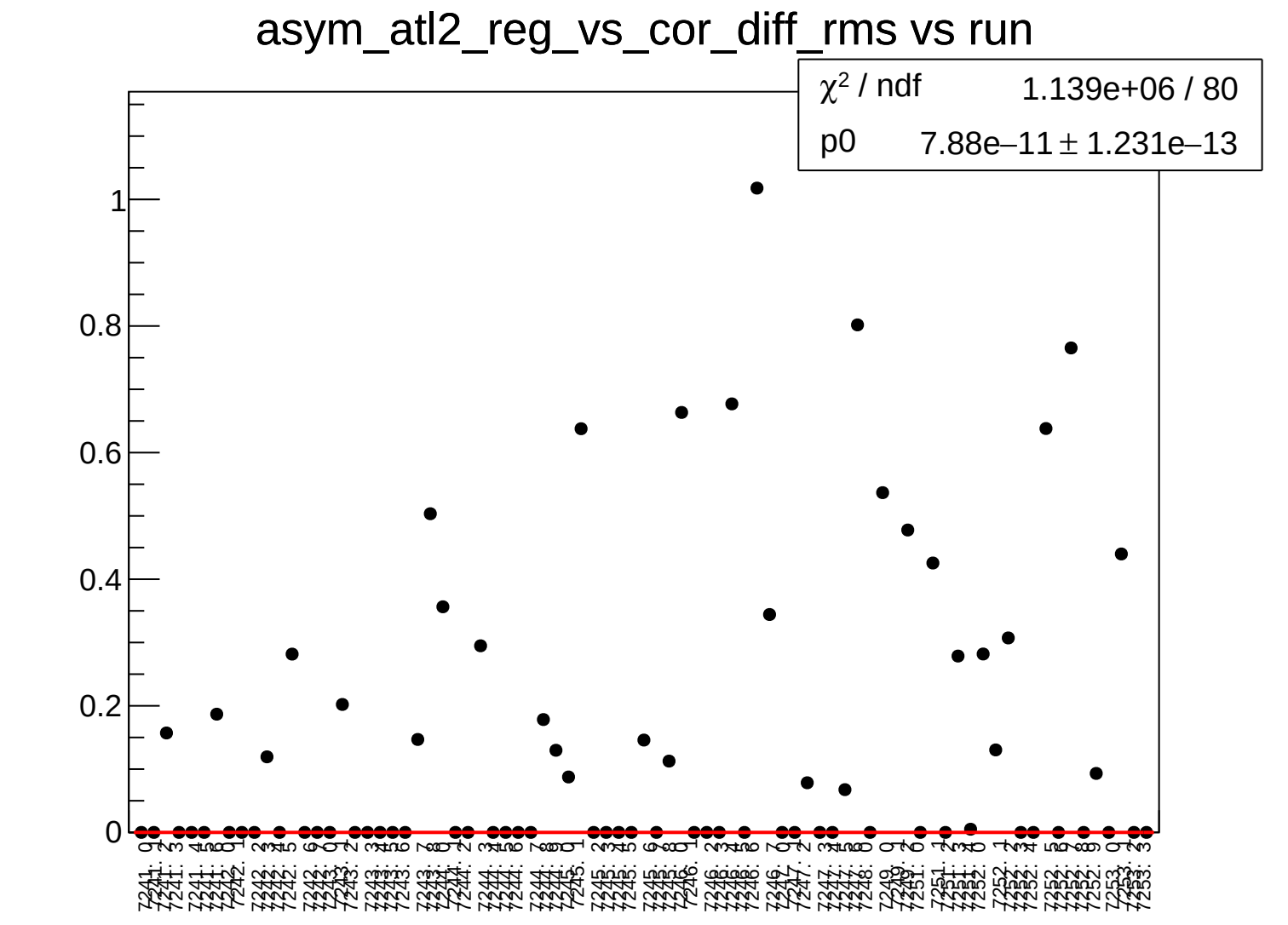

asym_atl2_mean vs run
×10^3
χ² / ndf 83.44 / 80
p0 4263 ± 9339
pull
Entries 81
Mean −126.3
Std Dev 0

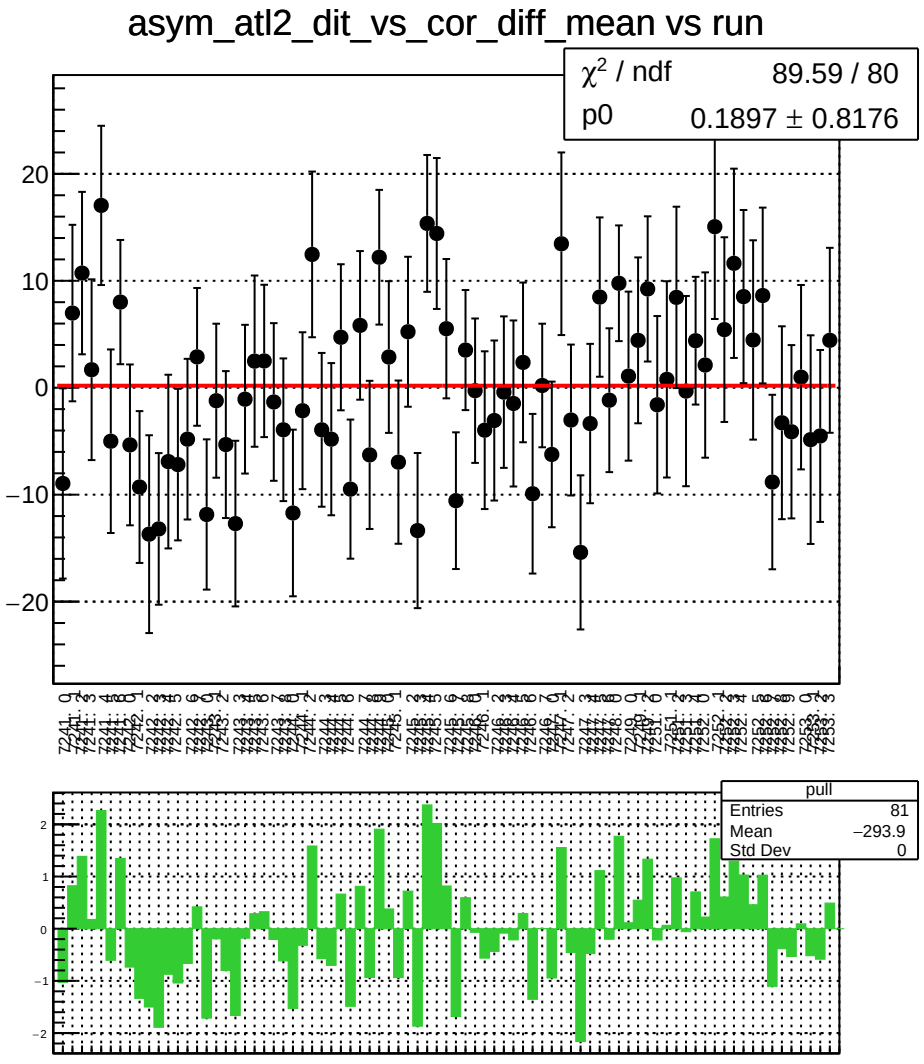

pull1D
Entries 81
Mean −0.02541
Std Dev 1.015

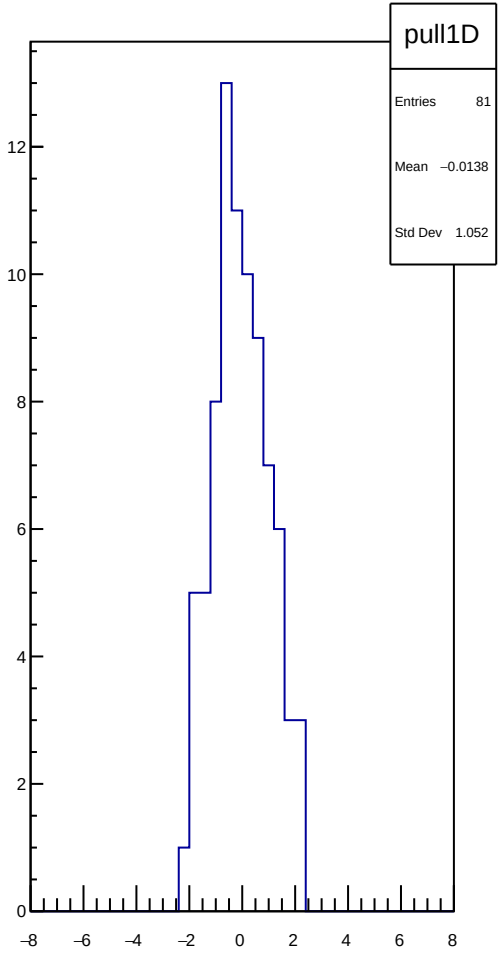

asym_atl2_rms vs run
χ² / ndf 4126 / 80
p0 8208 ± 6.604
10000
9500
9000
8500
8000
7500

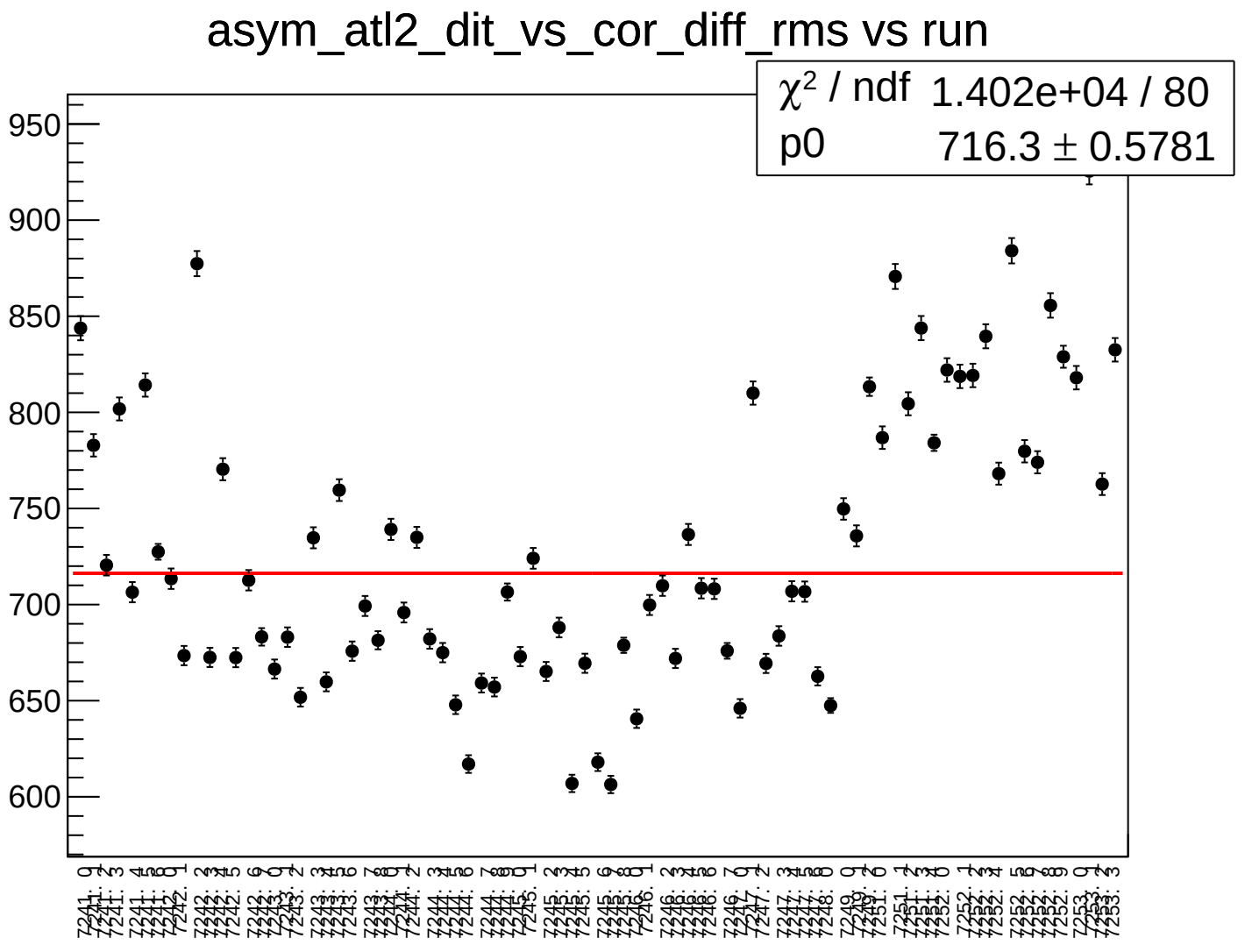

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 90.36 / 80
p0 1.026e−13 ± 1.741e−13
pull
Entries 81
Mean 1.817
Std Dev 0

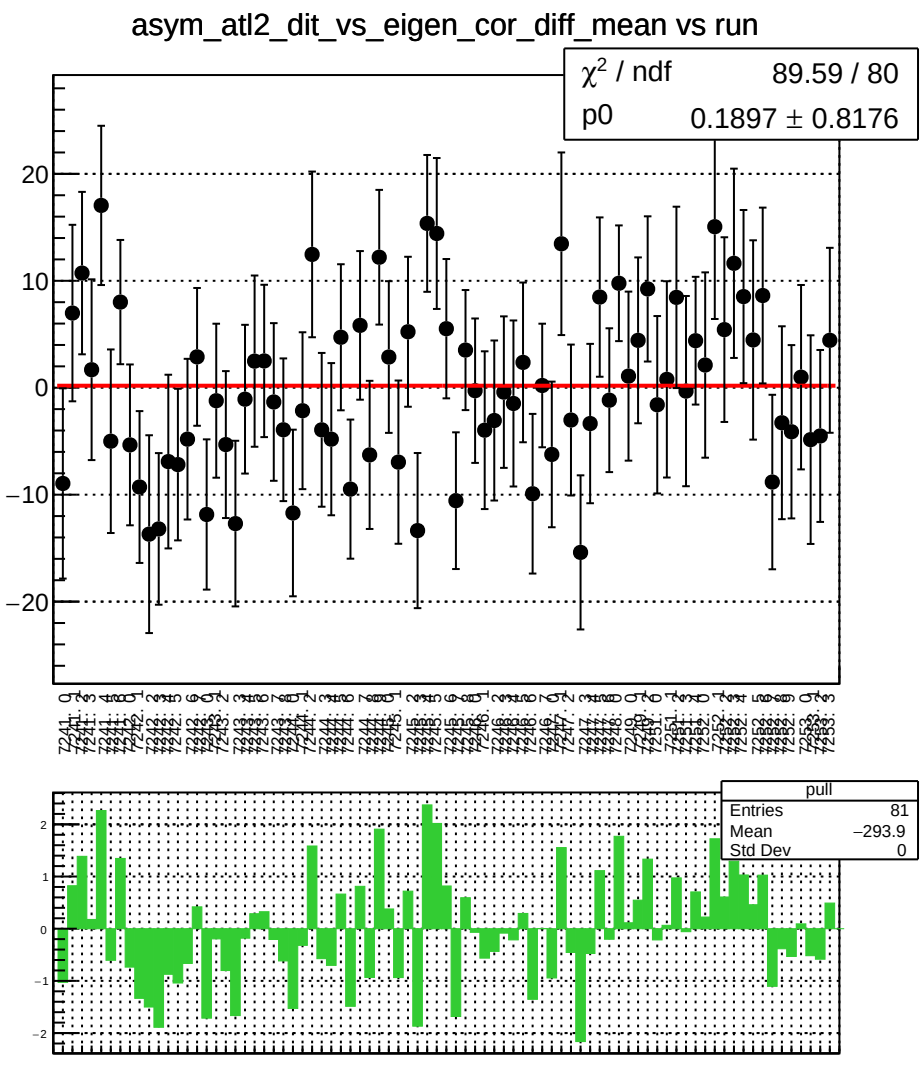

pull1D
Entries 81
Mean −0.006954
Std Dev 1.056

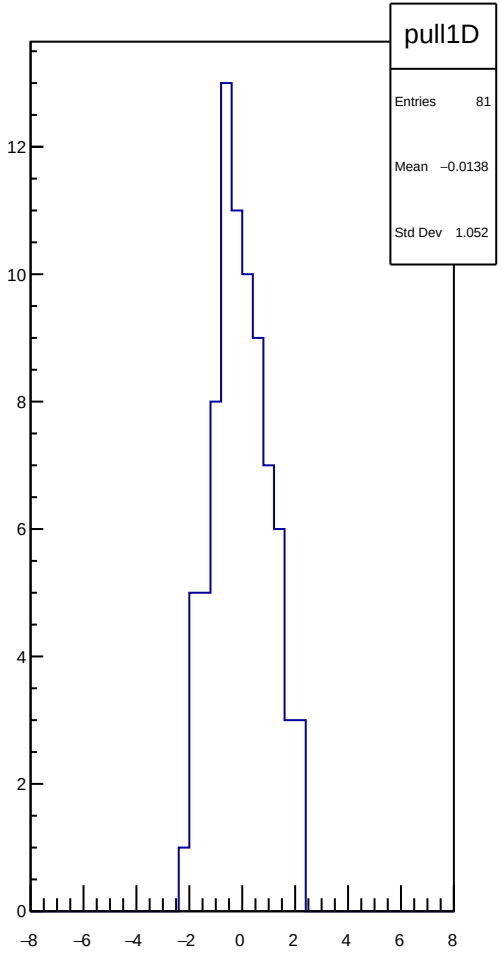

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.139e+06 / 80
p0 7.88e−11 ± 1.231e−13
1
0.8
0.6
0.4
0.2
0

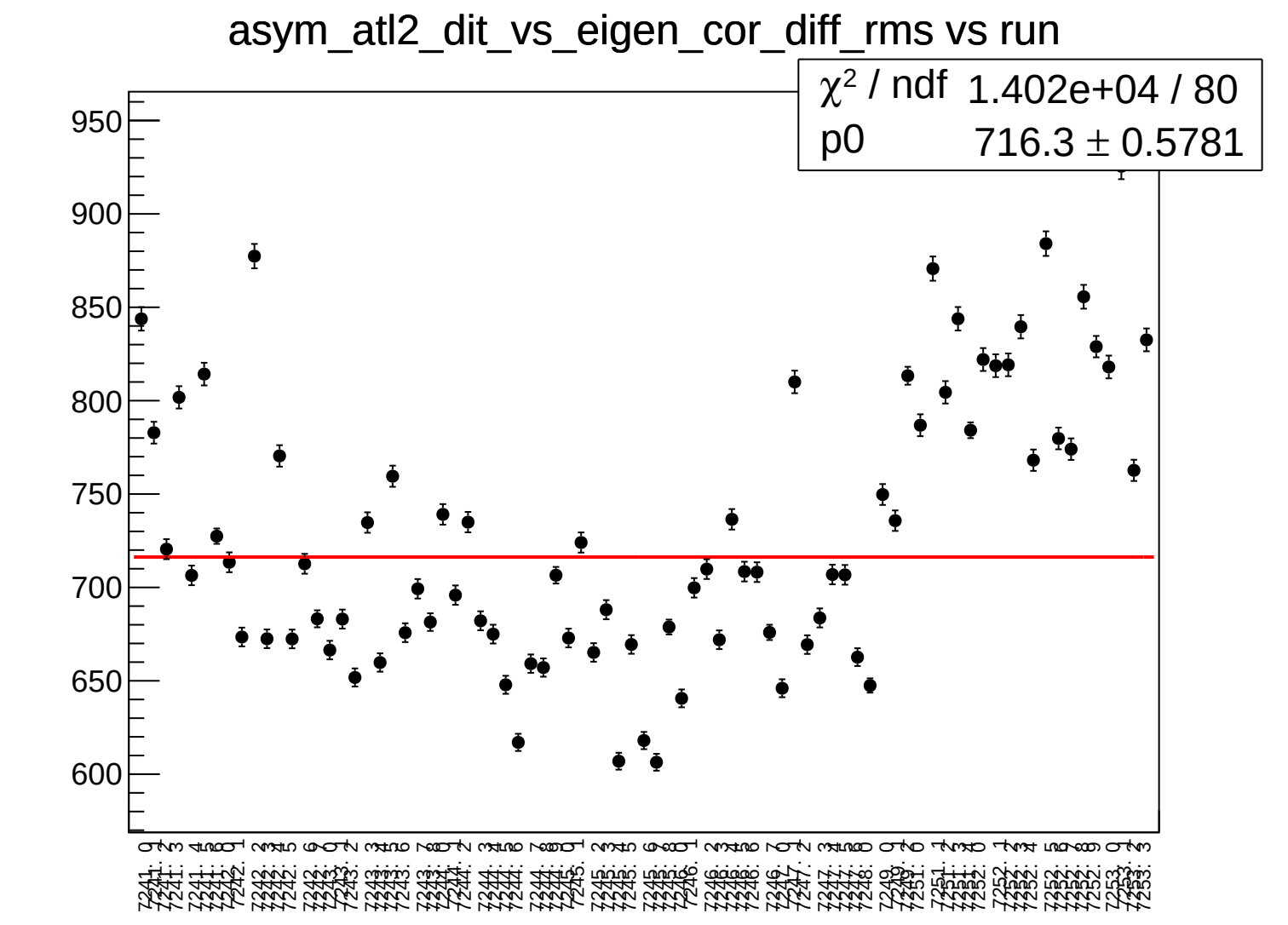

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 89.59 / 80
p0 0.1897 ± 0.8176
pull
Entries 81
Mean −293.9
Std Dev 0

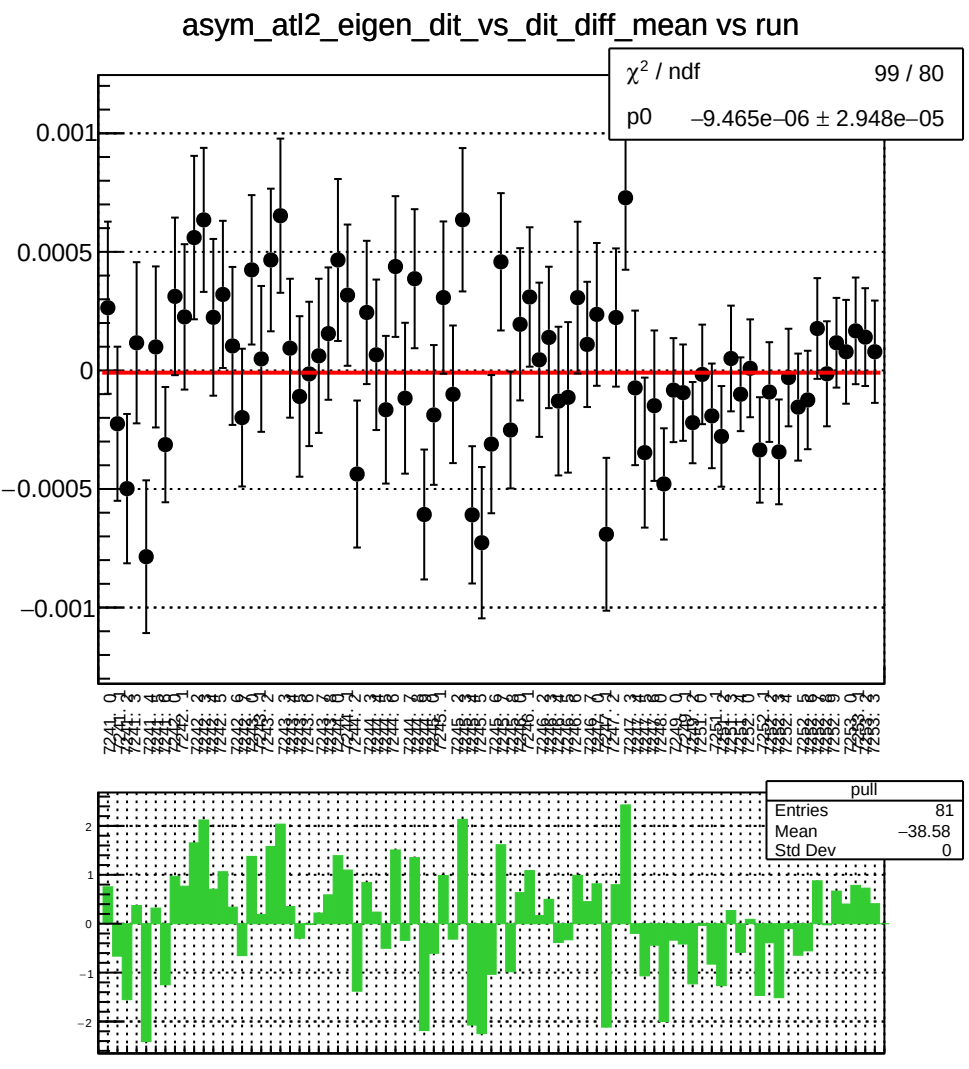

pull1D
Entries 81
Mean −0.0138
Std Dev 1.052

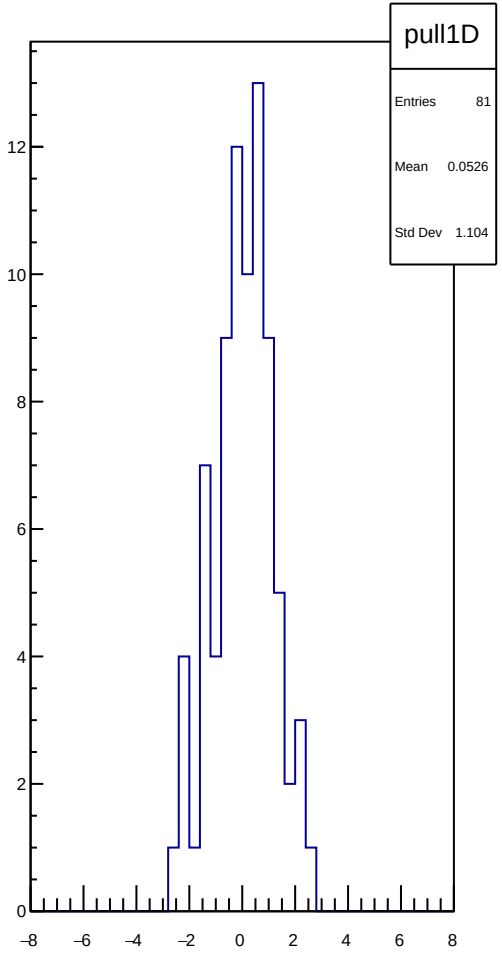

asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 1.402e+04 / 80
p0 716.3 ± 0.5781
950
900
850
800
750
700
650
600

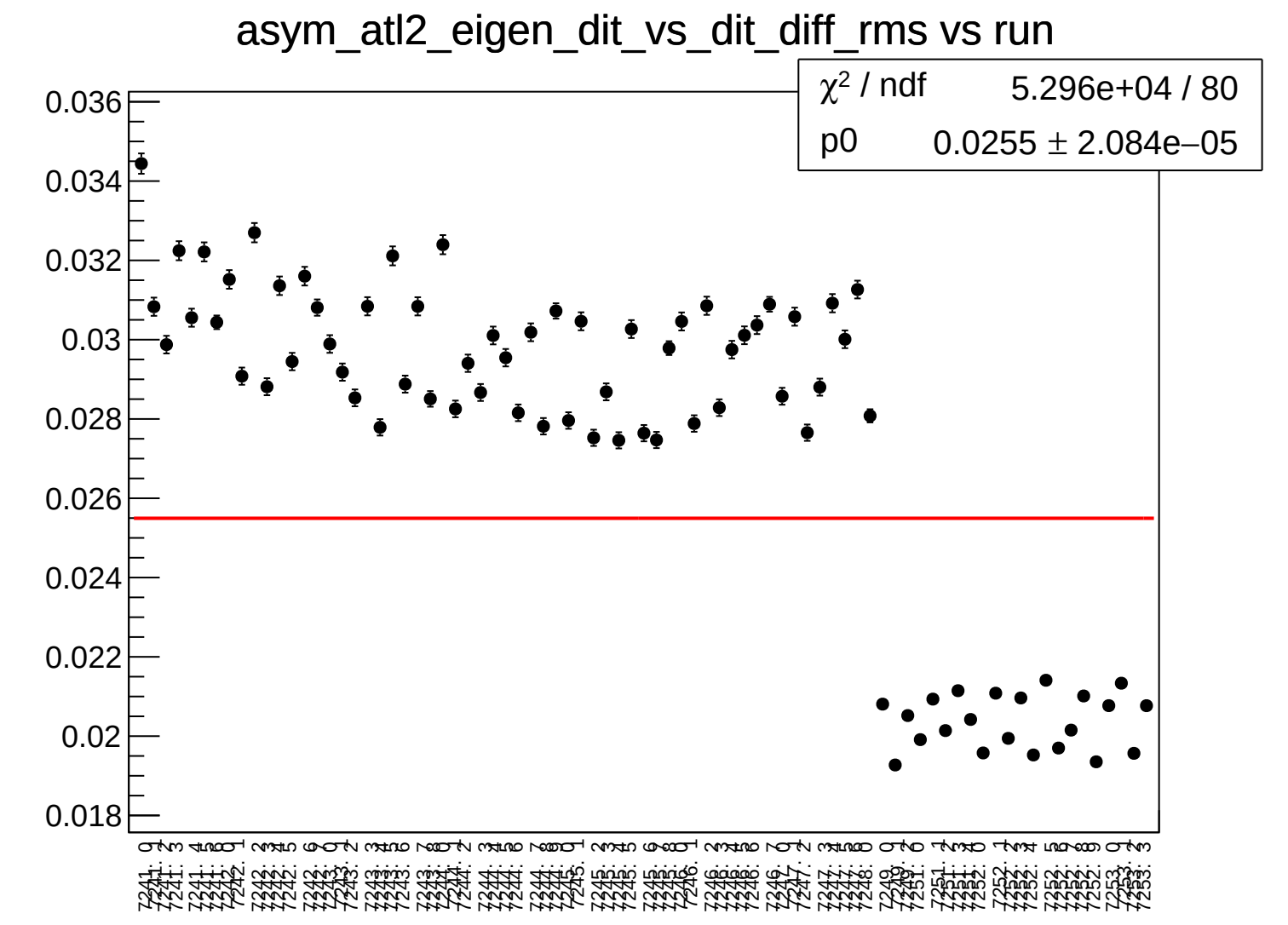

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.59 / 80
p0 0.1897 ± 0.8176
pull
Entries 81
Mean −293.9
Std Dev 0

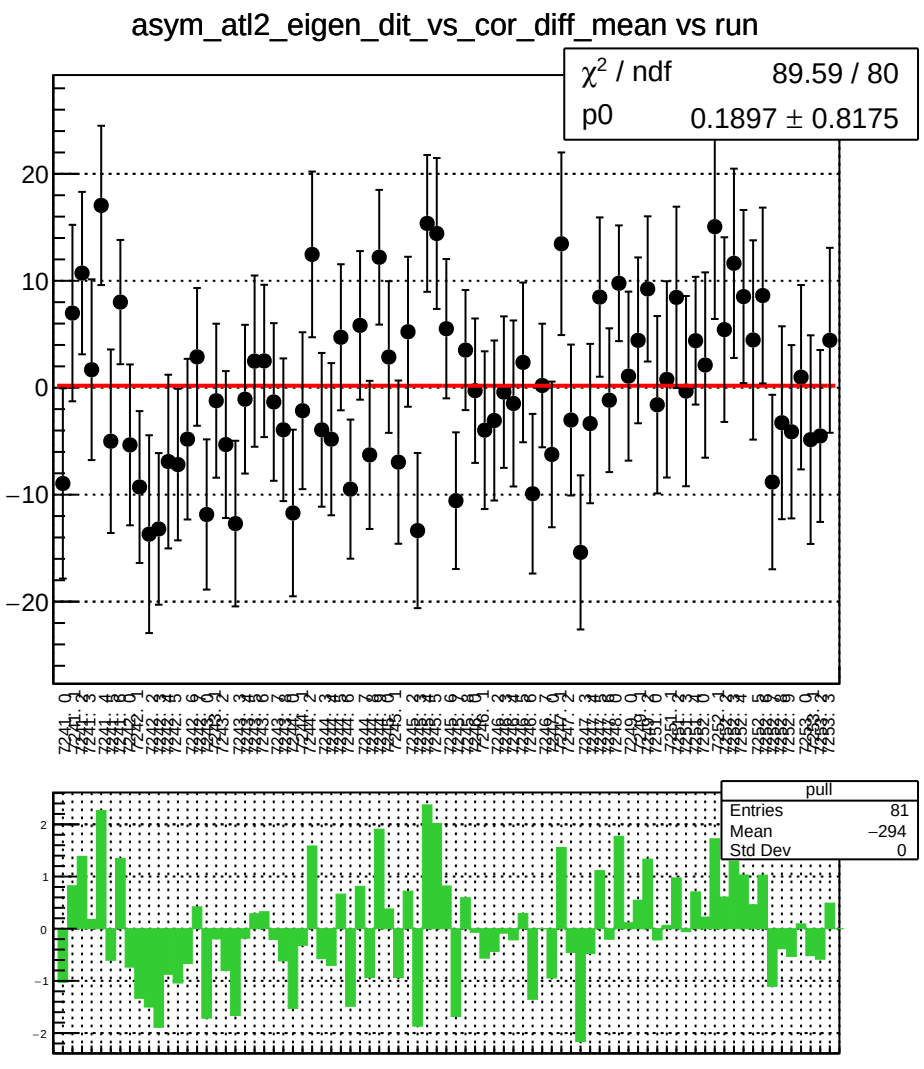

pull1D
Entries 81
Mean −0.0138
Std Dev 1.052

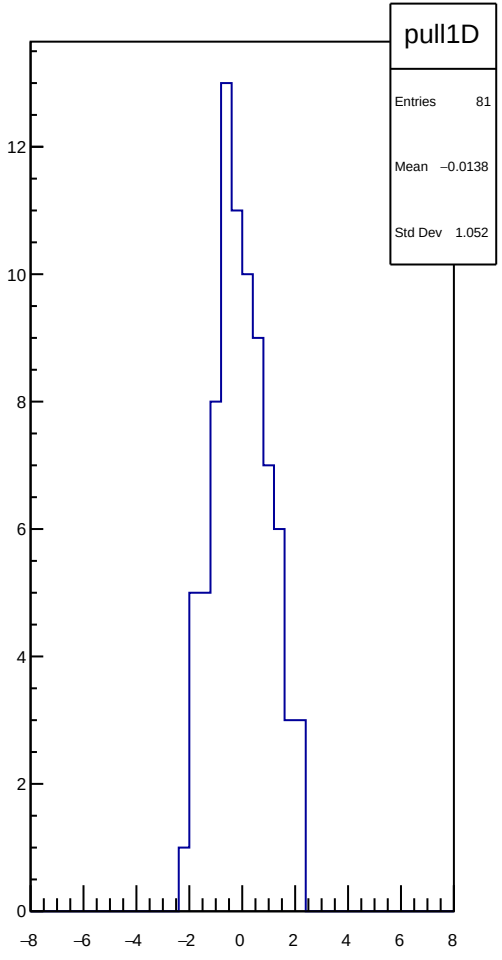

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.402e+04 / 80
p0 716.3 ± 0.5781
950
900
850
800
750
700
650
600

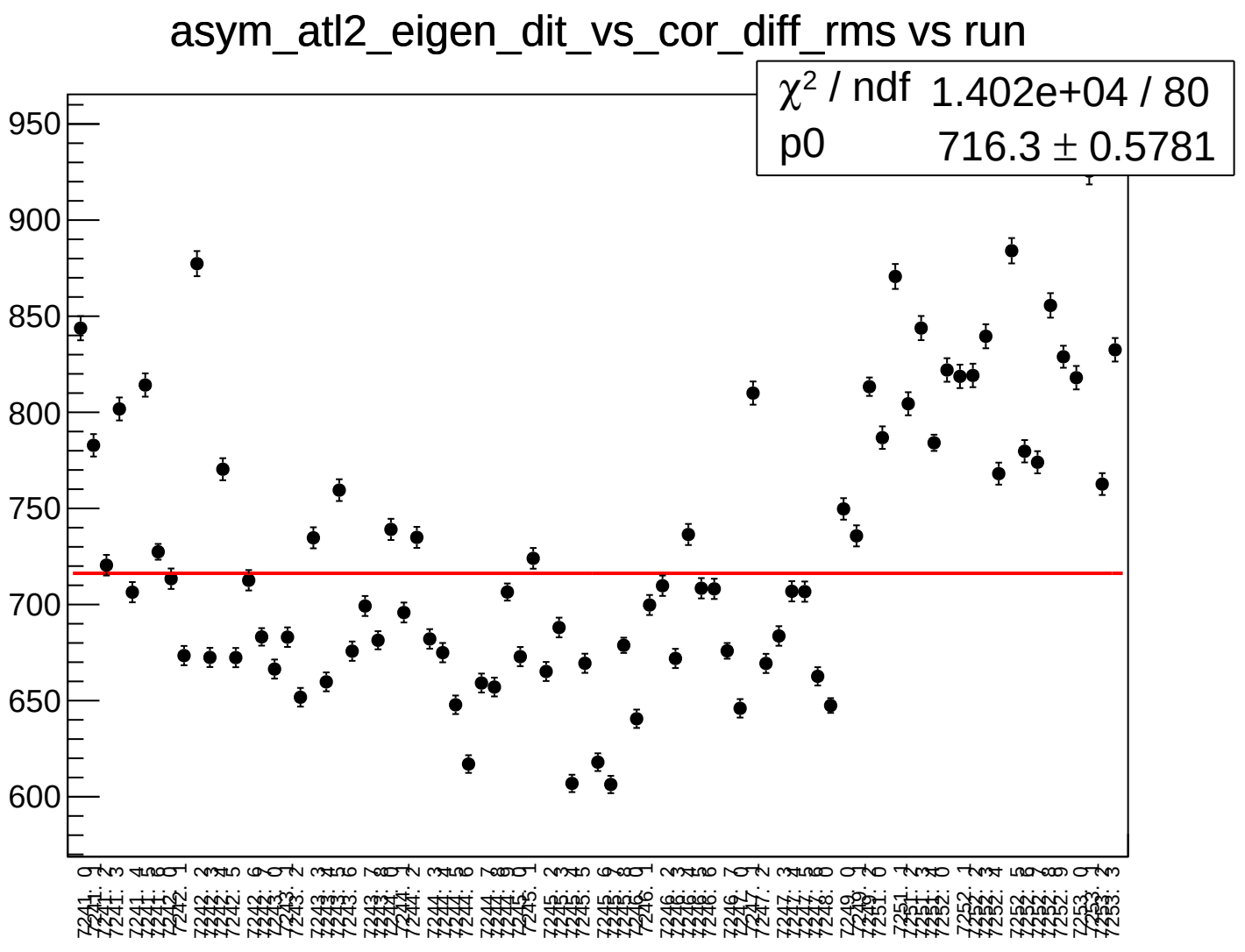

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 99 / 80
p0 −9.465e−06 ± 2.948e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 81
Mean −38.58
Std Dev 0

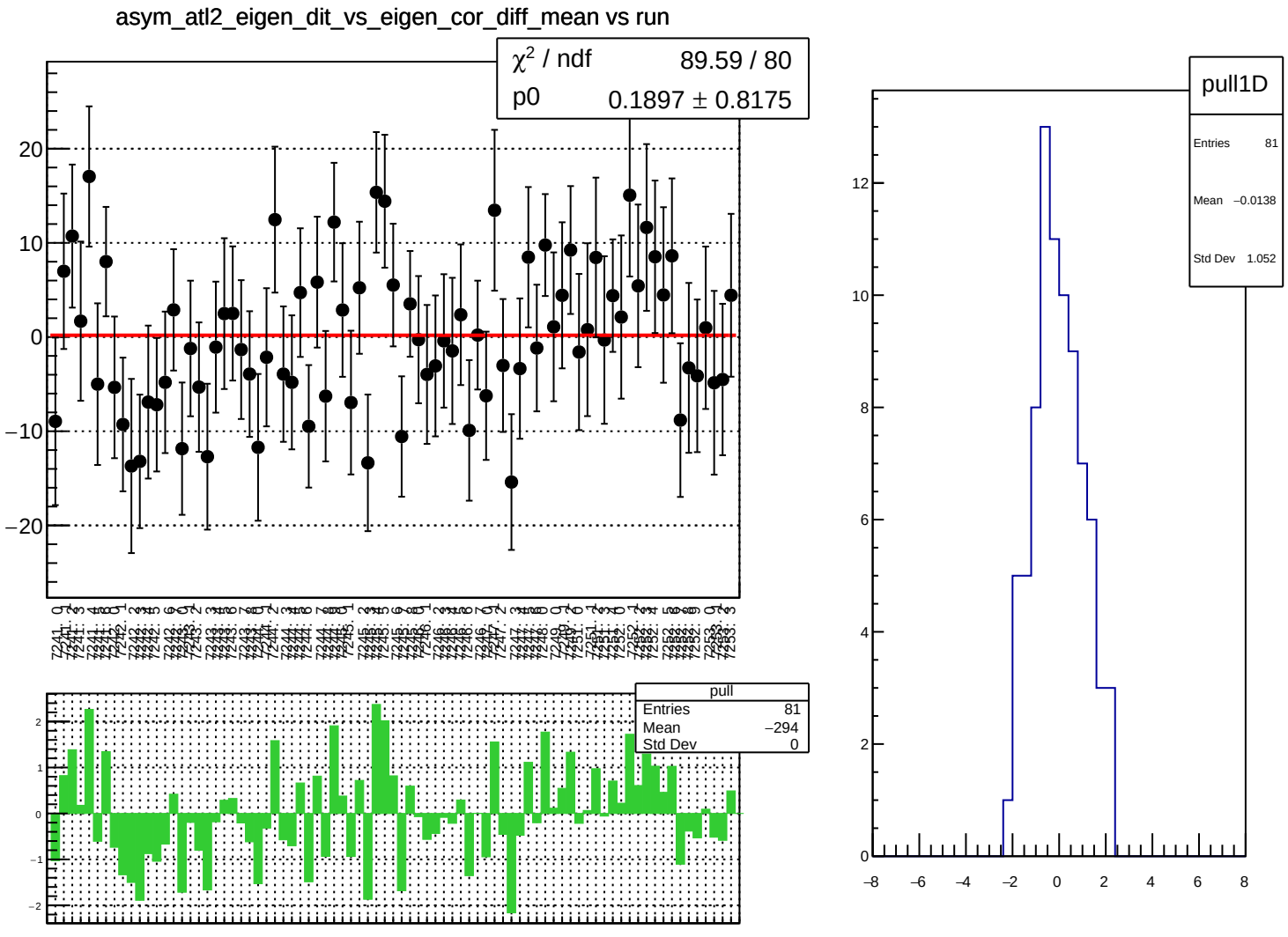

pull1D
Entries 81
Mean 0.0526
Std Dev 1.104

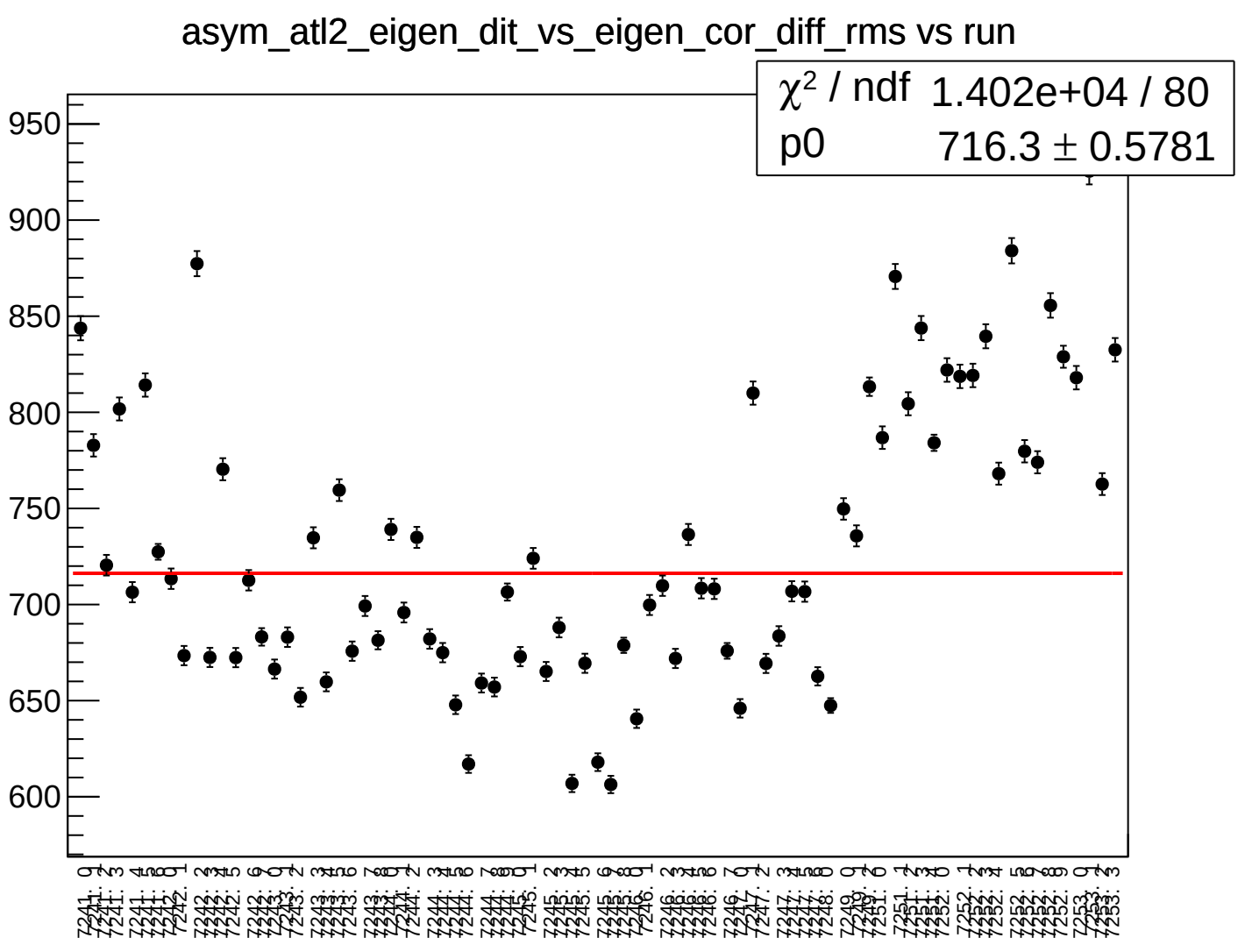

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.296e+04 / 80
p0 0.0255 ± 2.084e−05
0.036
0.034
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0.018

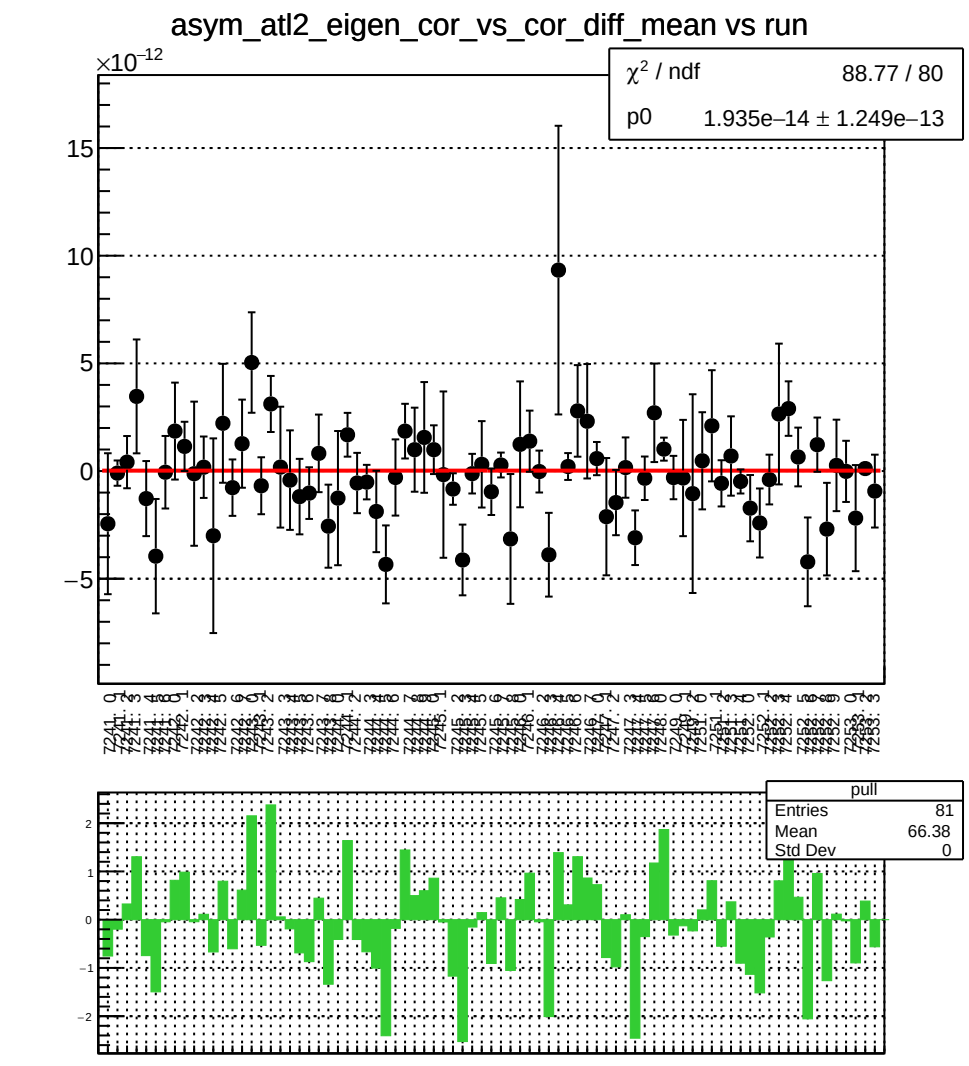

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.59 / 80
p0 0.1897 ± 0.8175
pull
Entries 81
Mean −294
Std Dev 0

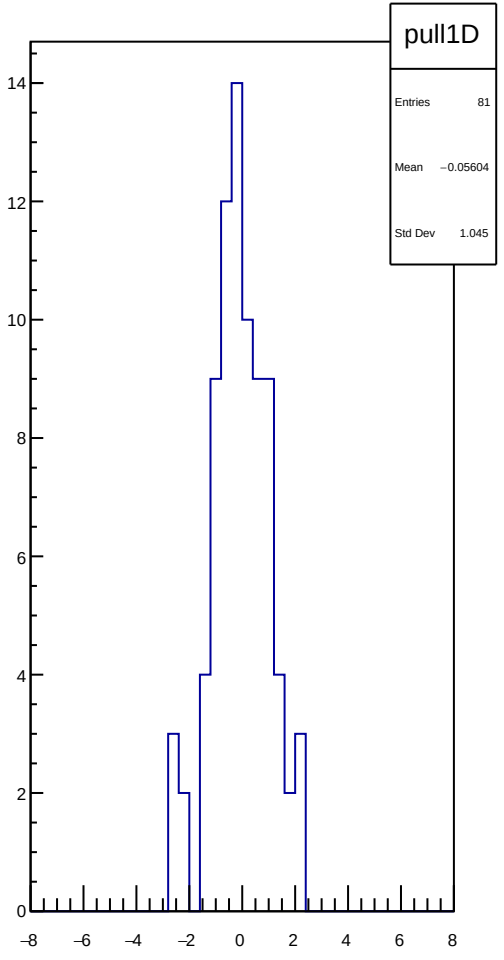

pull1D
Entries 81
Mean −0.0138
Std Dev 1.052


asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.402e+04 / 80
p0 716.3 ± 0.5781
950
900
850
800
750
700
650
600

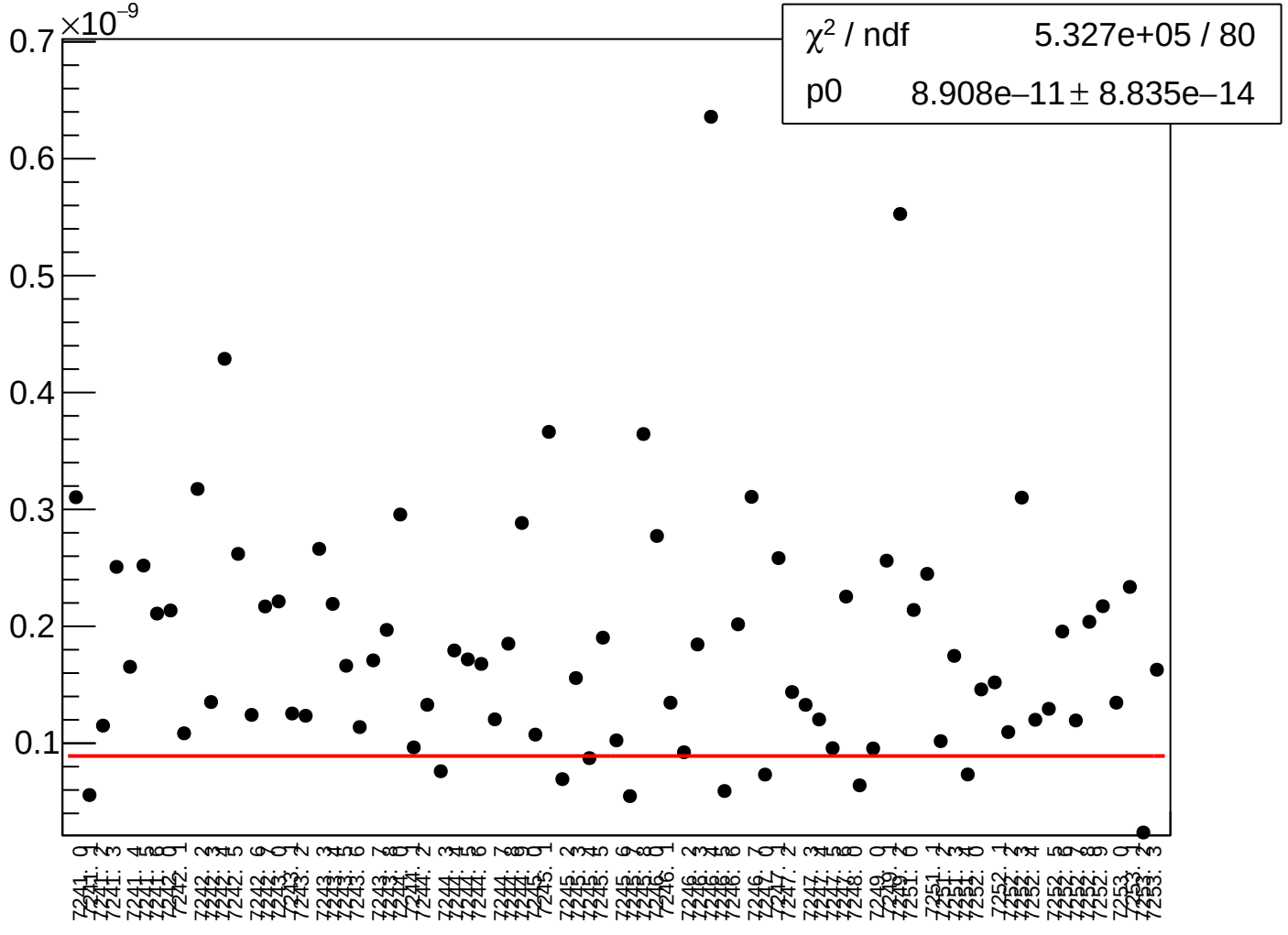

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.59 / 80
p0 0.1897 ± 0.8175
pull
Entries 81
Mean −294
Std Dev 0
pull1D
Entries 81
Mean −0.0138
Std Dev 1.052

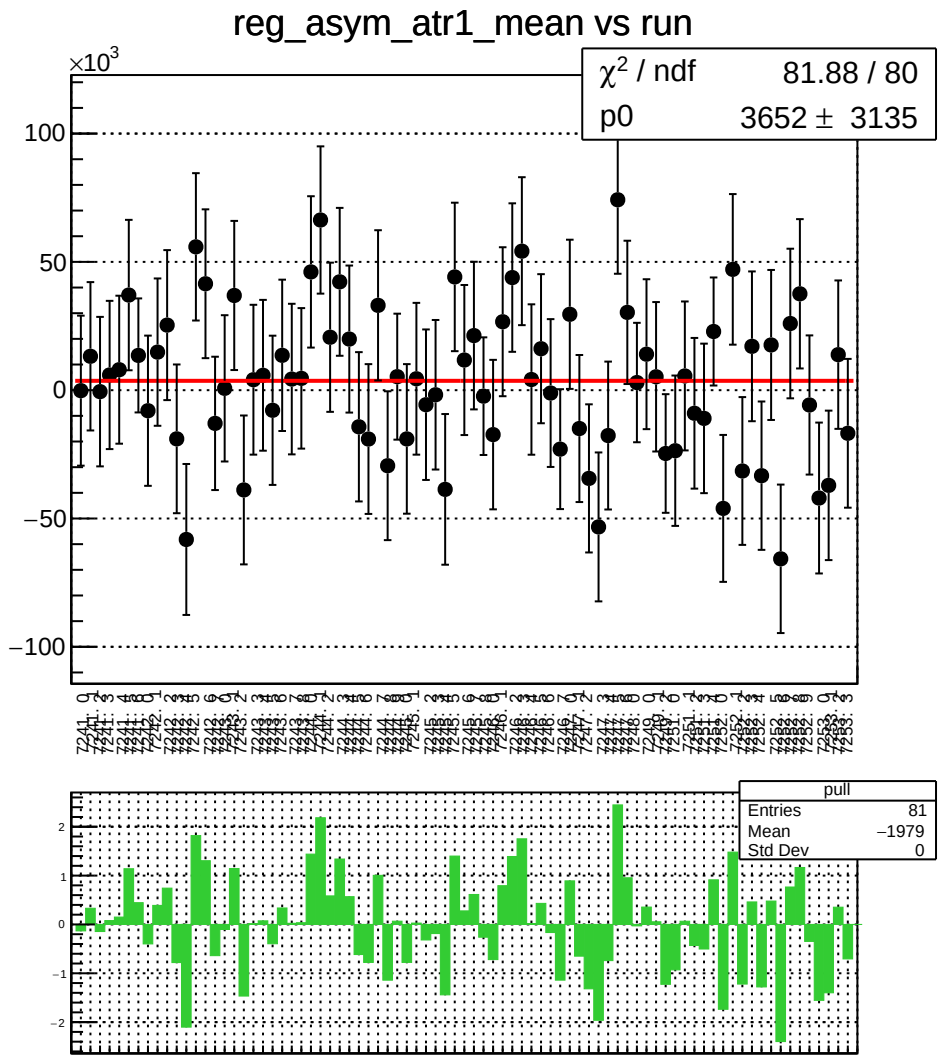

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.402e+04 / 80
p0 716.3 ± 0.5781
950
900
850
800
750
700
650
600

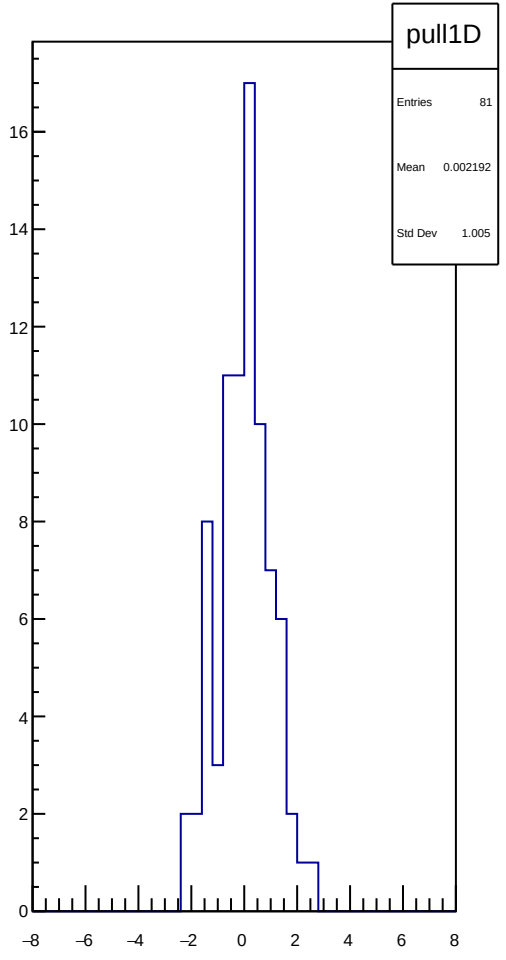

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.77 / 80
p0 1.935e−14 ± 1.249e−13
15
10
5
0
−5
pull
Entries 81
Mean 66.38
Std Dev 0
2
1
0
−1
−2

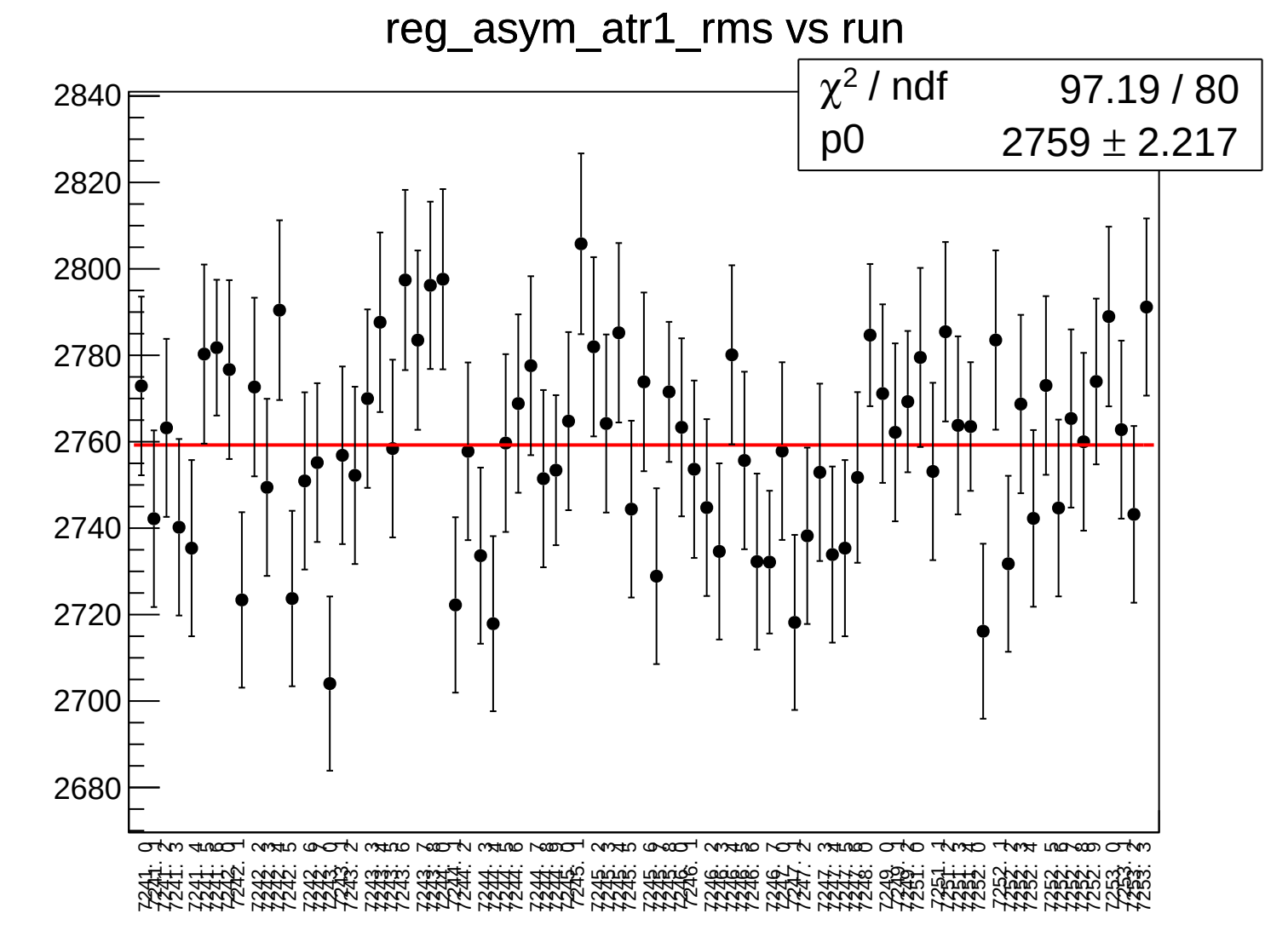

pull1D
Entries 81
Mean −0.05604
Std Dev 1.045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

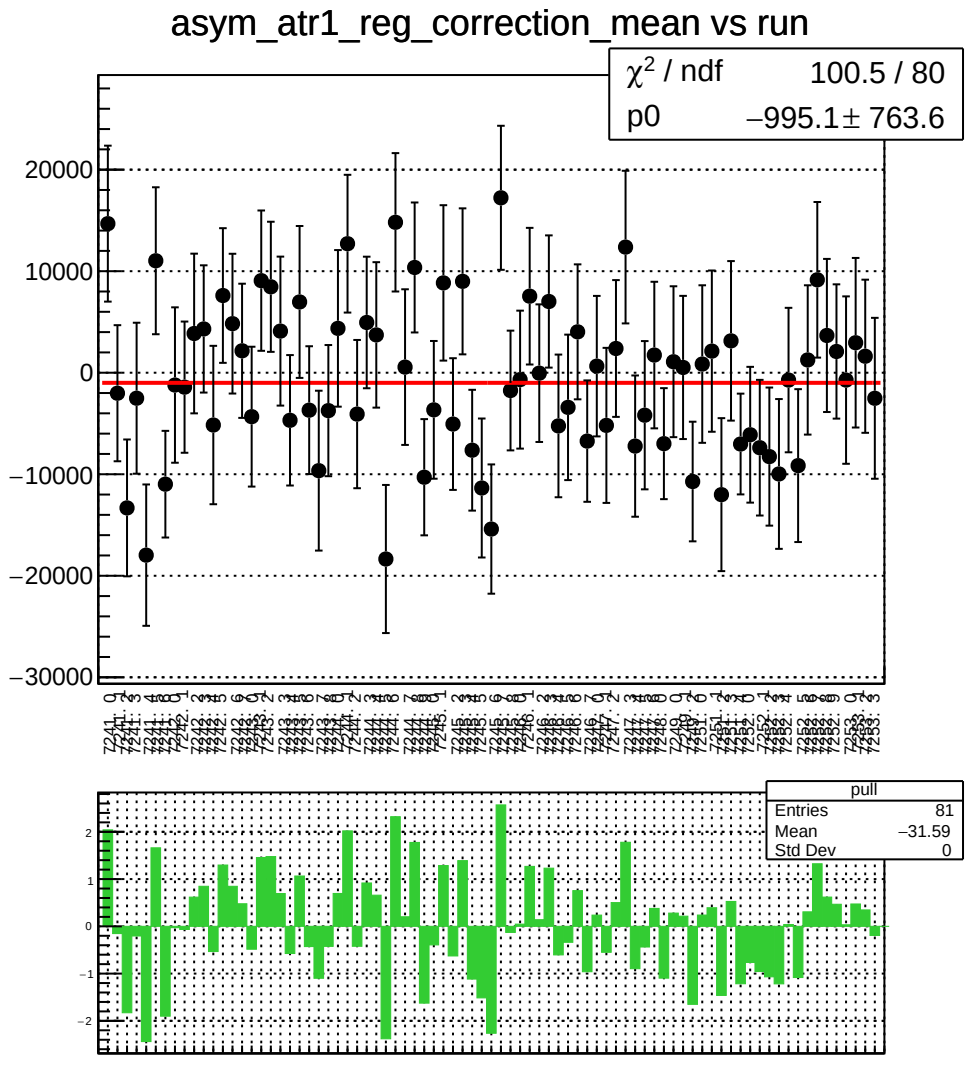
asym_atl2_eigen_cor_vs_cor_diff_rms vs run

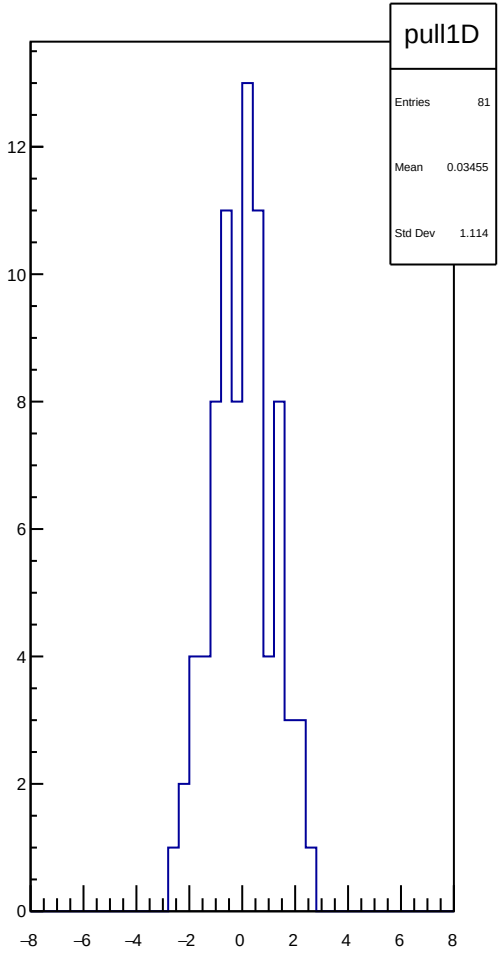


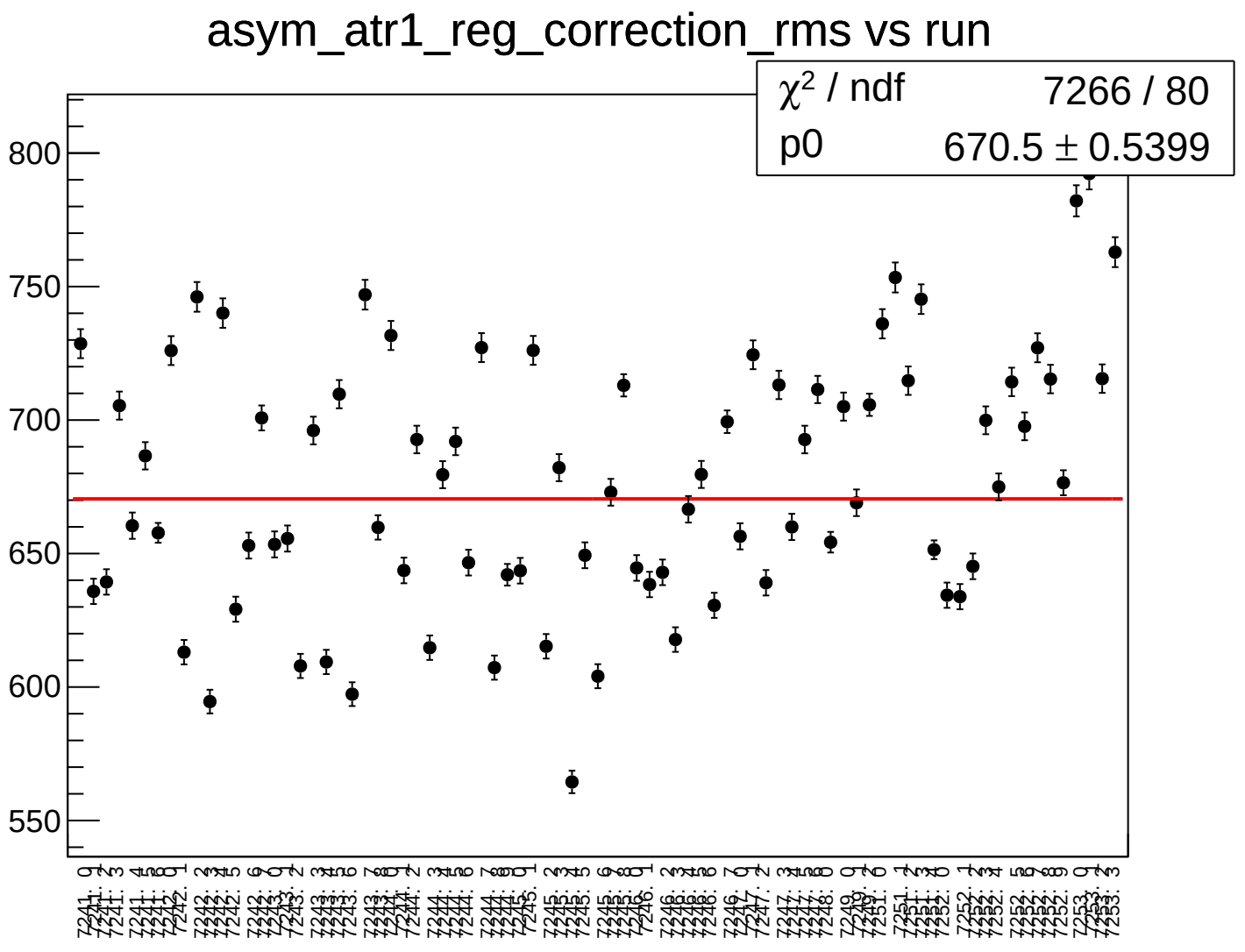

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 81.88 / 80
p0 3652 ± 3135
100
50
0
−50
−100
pull
Entries 81
Mean −1979
Std Dev 0
2
1
0
−1
−2

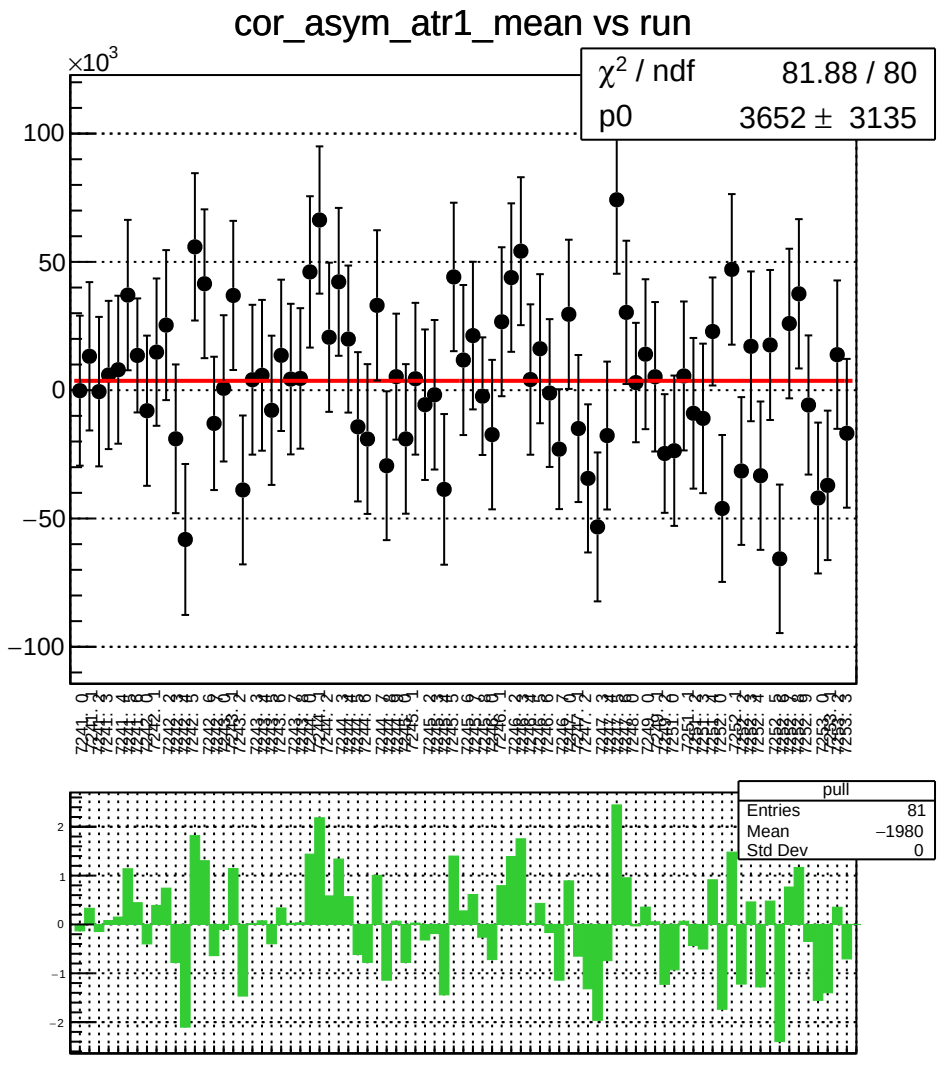

pull1D
Entries 81
Mean 0.002192
Std Dev 1.005
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

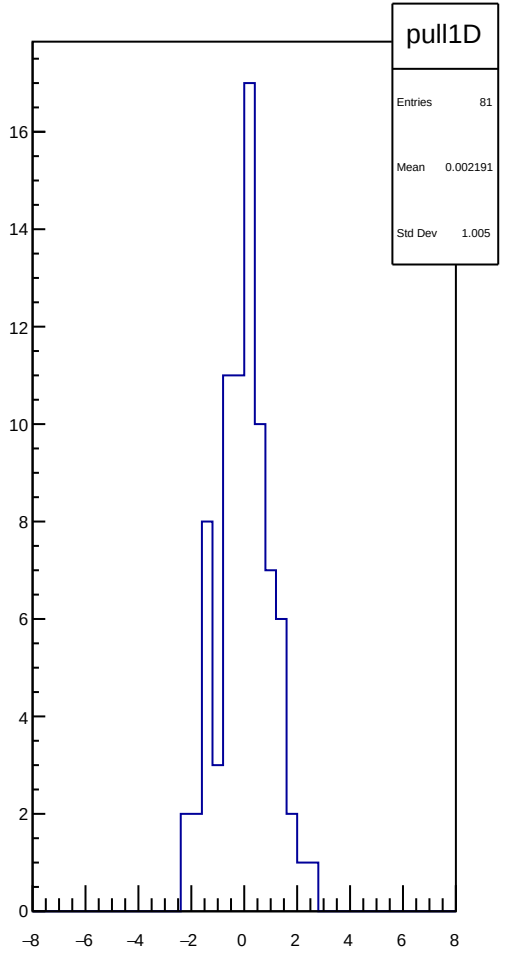

reg_asym_atr1_rms vs run
χ^2 / ndf 97.19 / 80
p0 2759 ± 2.217
2840
2820
2800
2780
2760
2740
2720
2700
2680

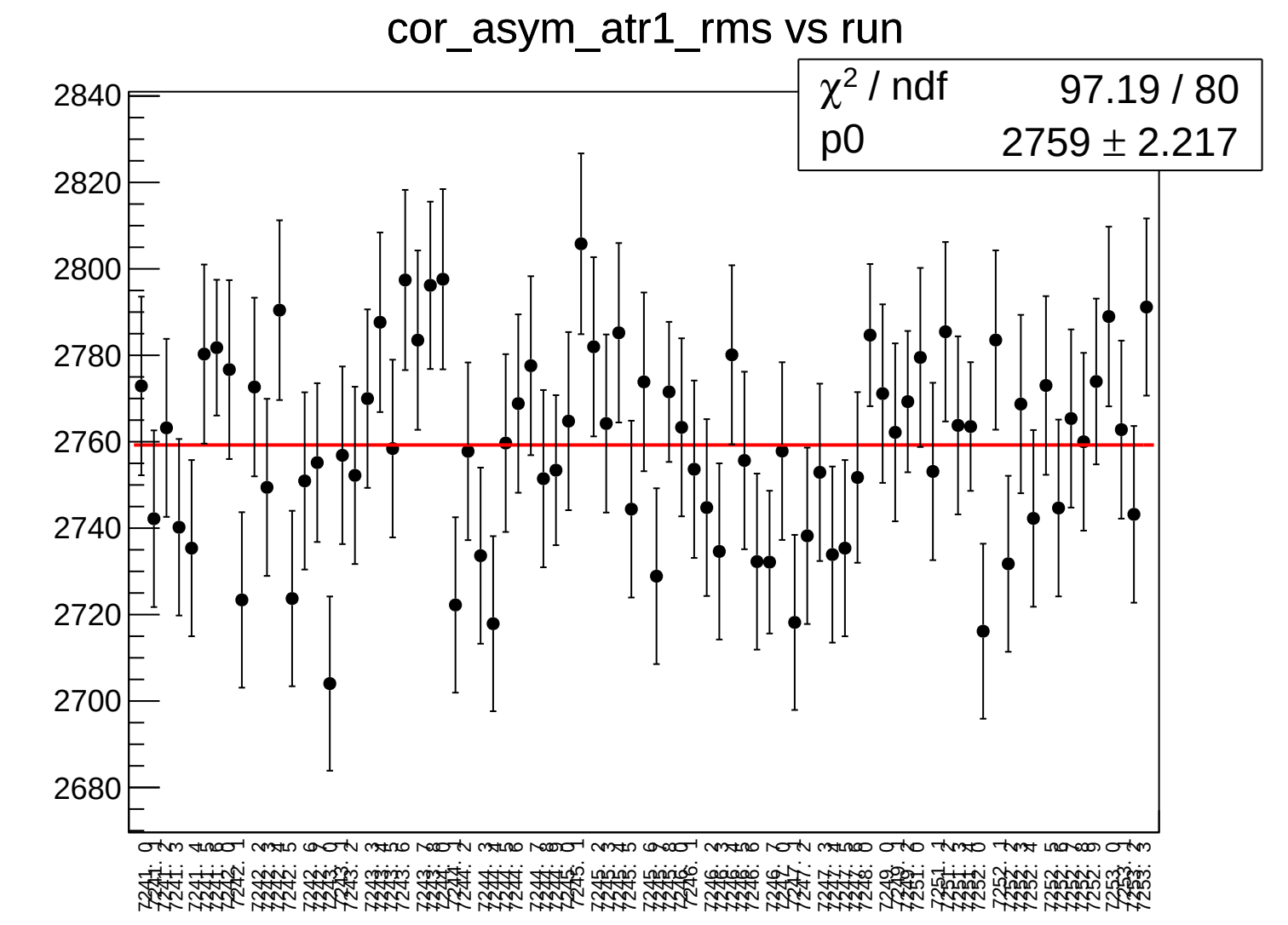

asym_atr1_reg_correction_mean vs run
χ² / ndf 100.5 / 80
p0 −995.1± 763.6
pull
Entries 81
Mean −31.59
Std Dev 0

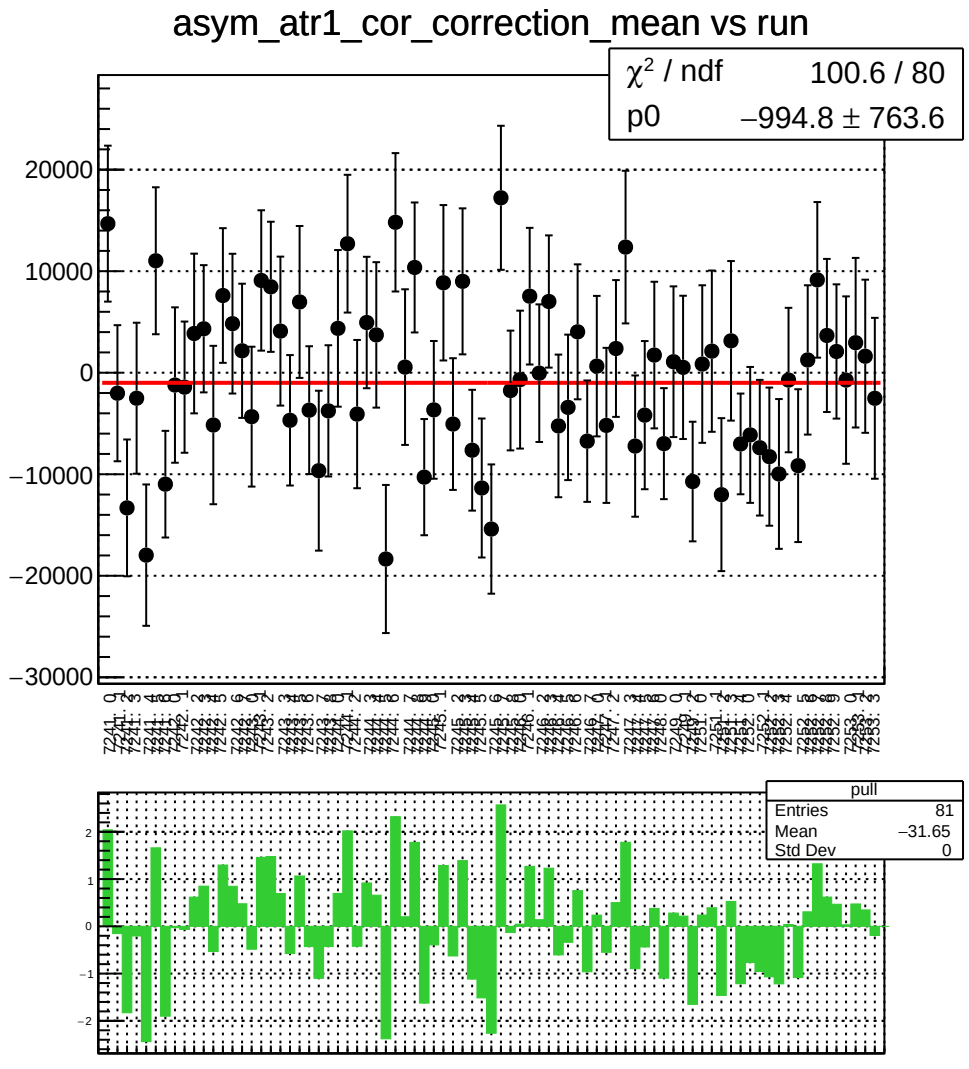

pull1D
Entries 81
Mean 0.03455
Std Dev 1.114

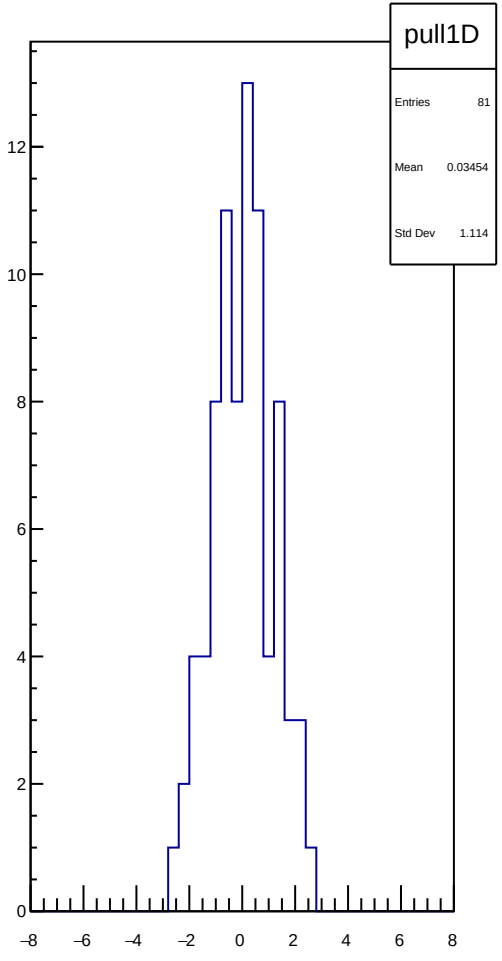

asym_atr1_reg_correction_rms vs run
χ² / ndf 7266 / 80
p0 670.5 ± 0.5399
800
750
700
650
600
550

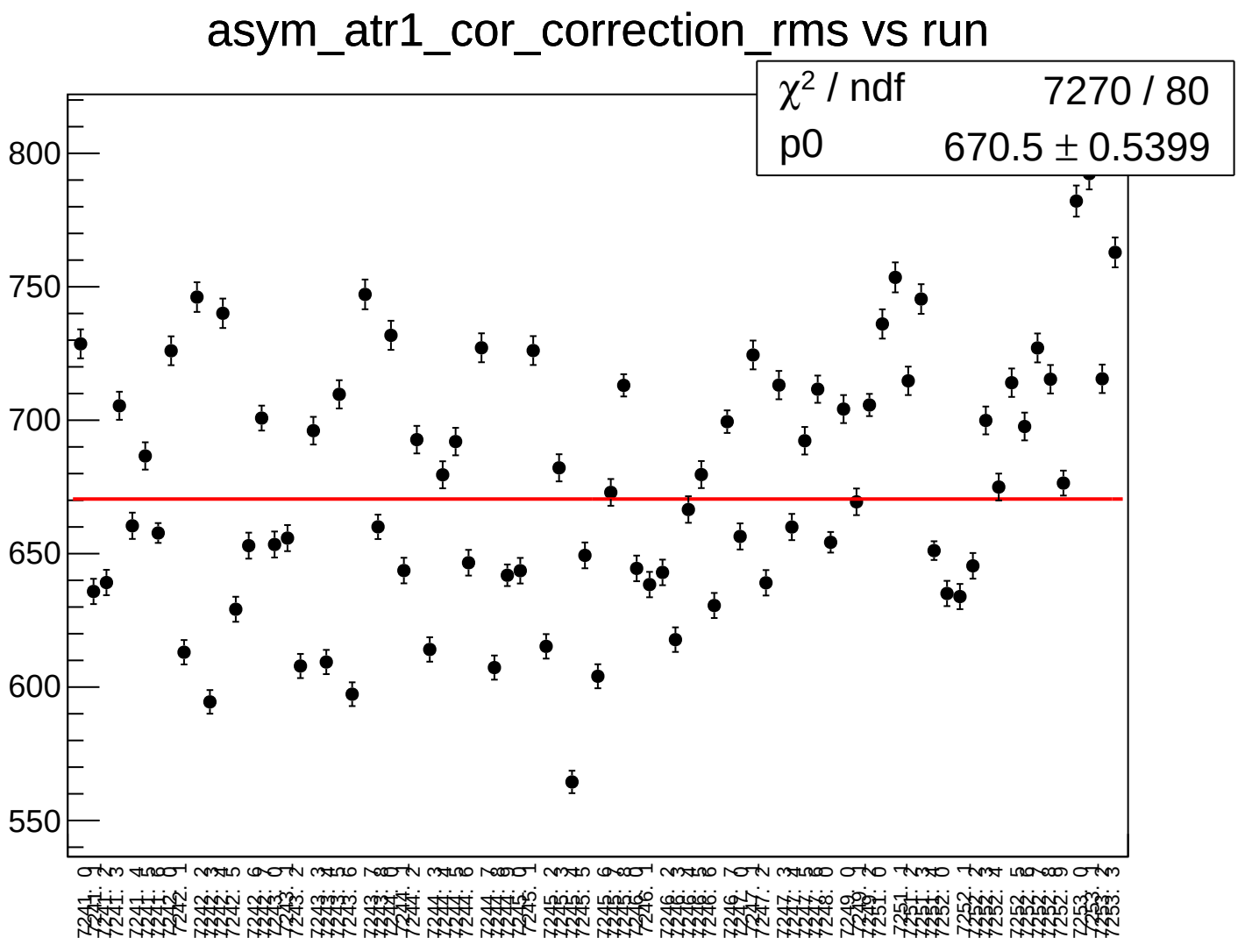

cor_asym_atr1_mean vs run
×10^3
χ² / ndf 81.88 / 80
p0 3652 ± 3135
100
50
0
−50
−100
pull
Entries 81
Mean −1980
Std Dev 0
2
1
0
−1
−2

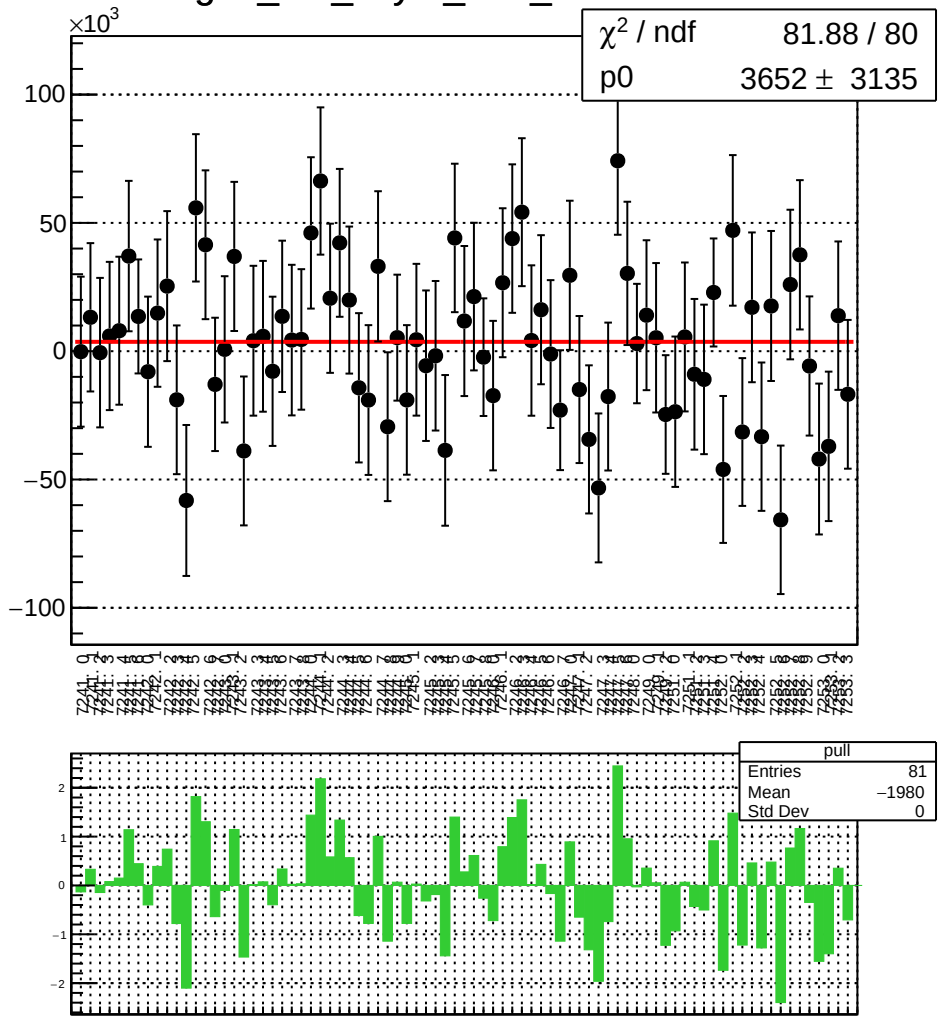

pull1D
Entries 81
Mean 0.002191
Std Dev 1.005
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

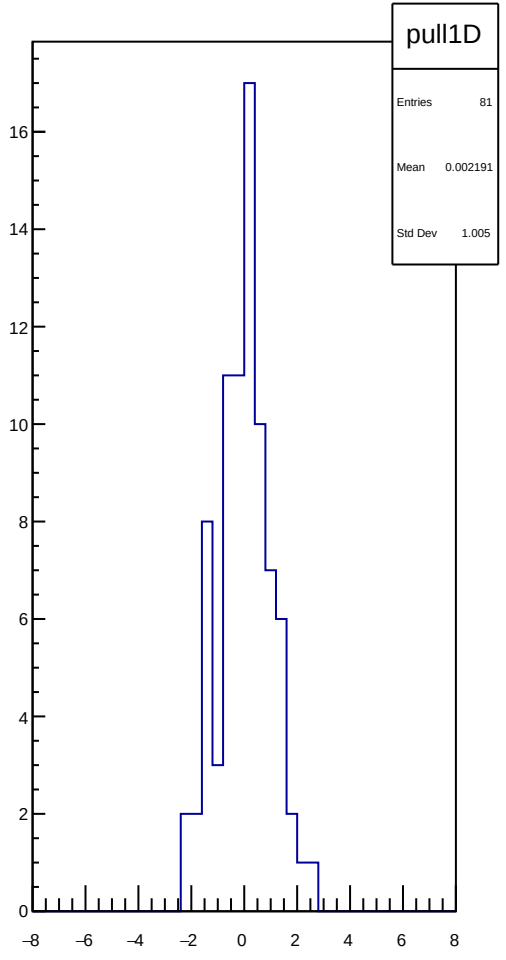

cor_asym_atr1_rms vs run
χ² / ndf 97.19 / 80
p0 2759 ± 2.217
2840
2820
2800
2780
2760
2740
2720
2700
2680


asym_atr1_cor_correction_mean vs run
χ² / ndf 100.6 / 80
p0 −994.8 ± 763.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean −31.65
Std Dev 0
2
1
0
−1
−2

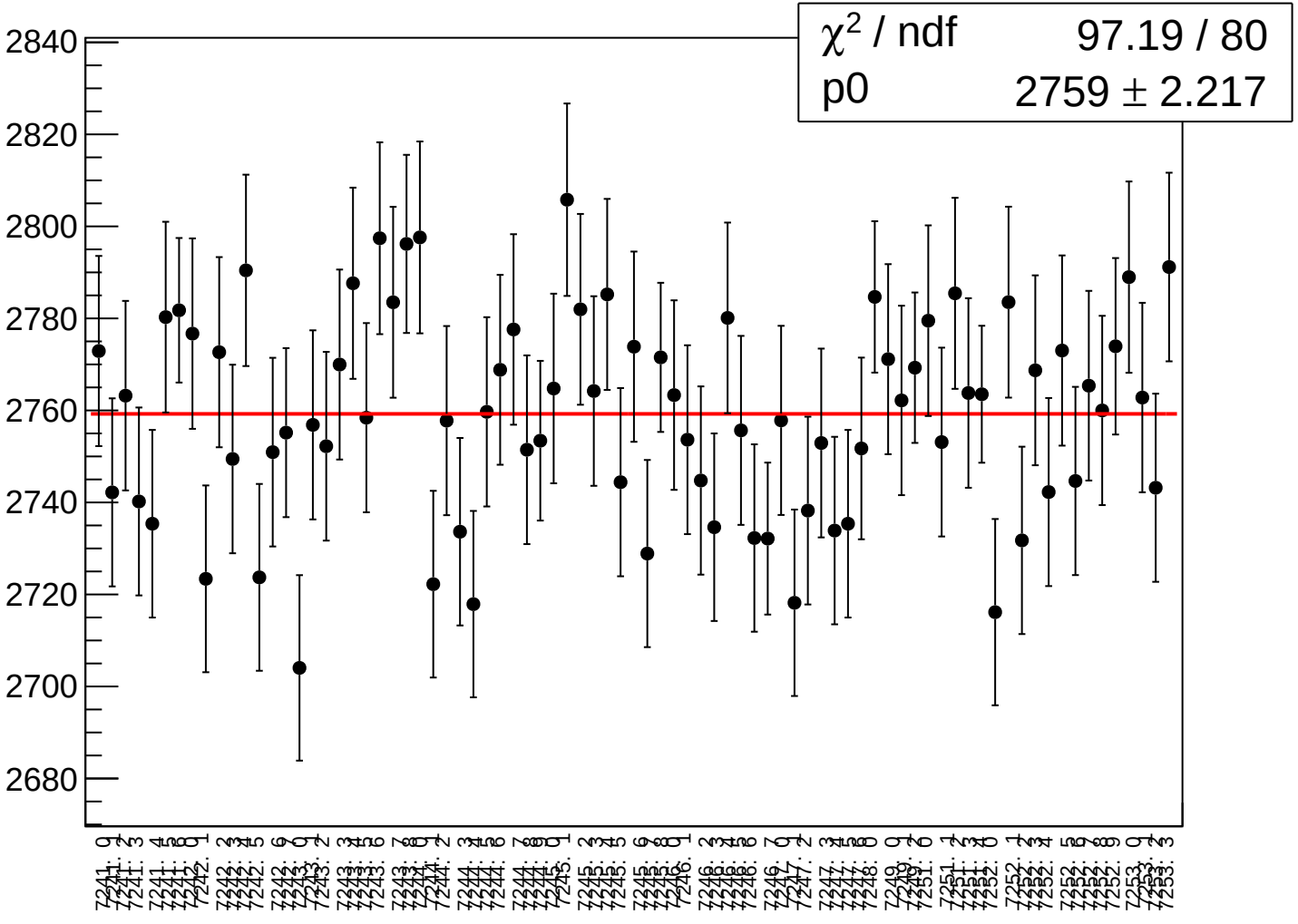

pull1D
Entries 81
Mean 0.03454
Std Dev 1.114
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

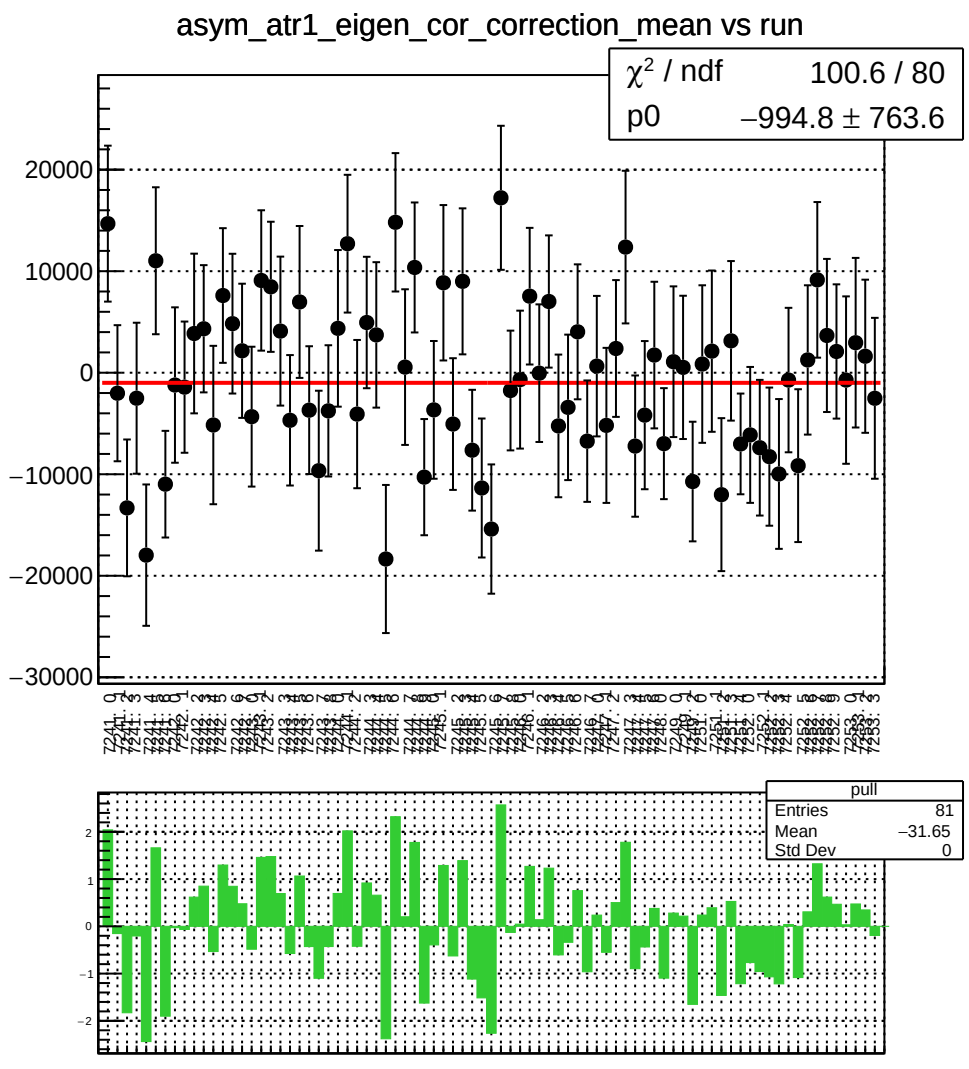

asym_atr1_cor_correction_rms vs run
χ² / ndf 7270 / 80
p0 670.5 ± 0.5399
800
750
700
650
600
550

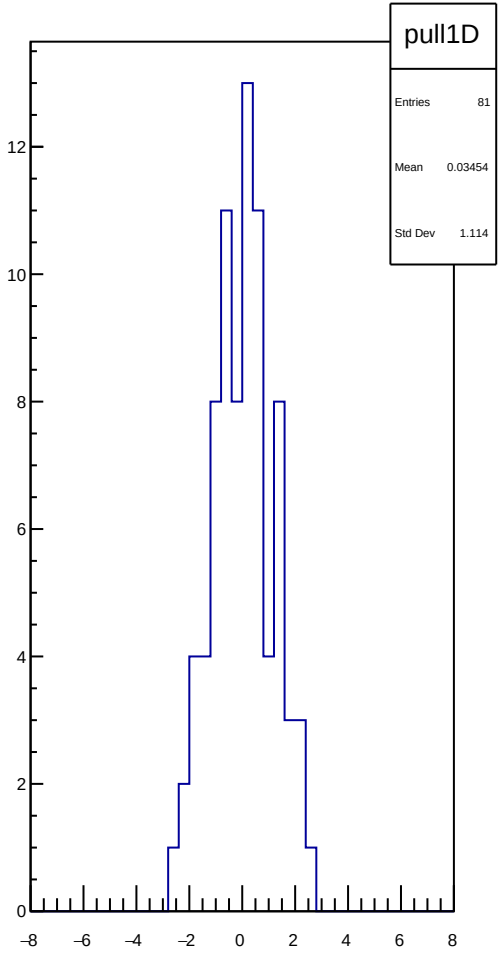

eigen_cor_asym_atr1_mean vs run
×10^3
χ² / ndf 81.88 / 80
p0 3652 ± 3135
100
50
0
−50
−100
pull
Entries 81
Mean −1980
Std Dev 0
2
1
0
−1
−2

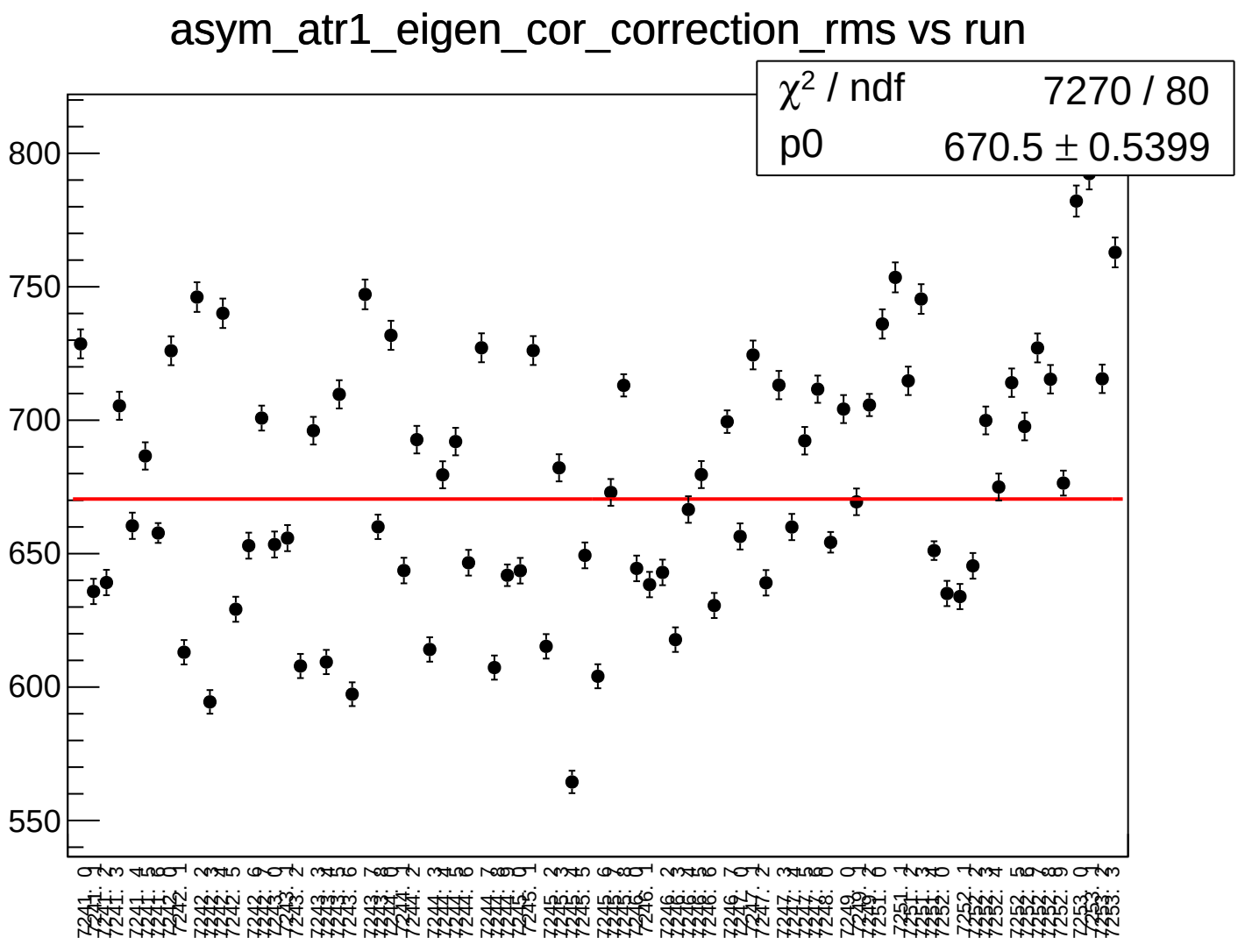

pull1D
Entries 81
Mean 0.002191
Std Dev 1.005
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

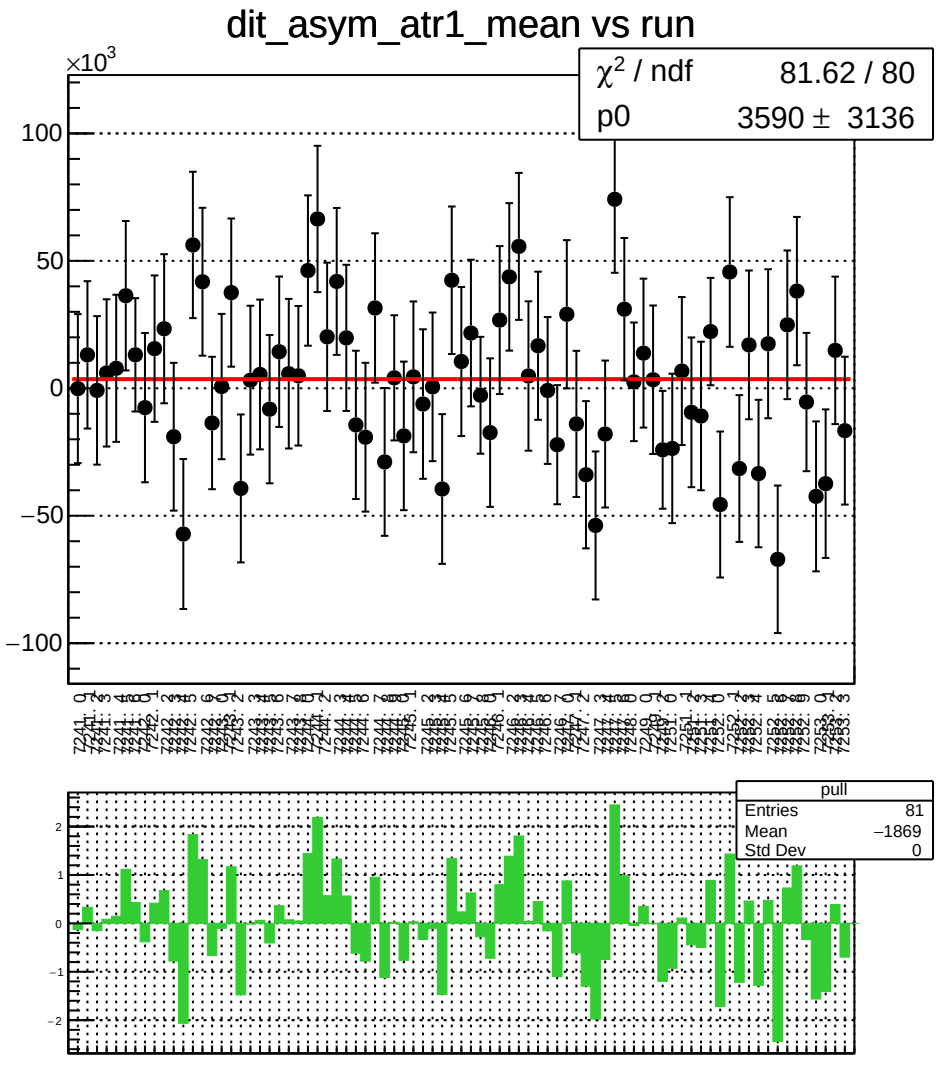
eigen_cor_asym_atr1_rms vs run

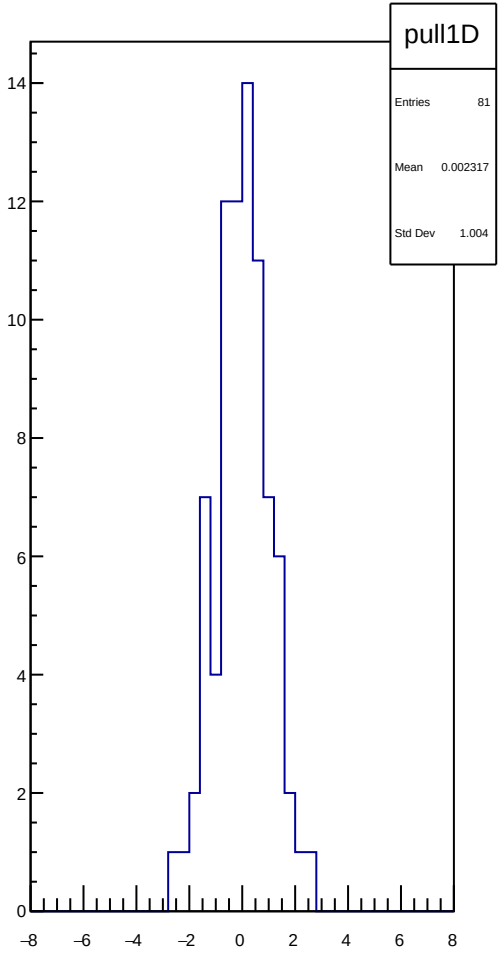


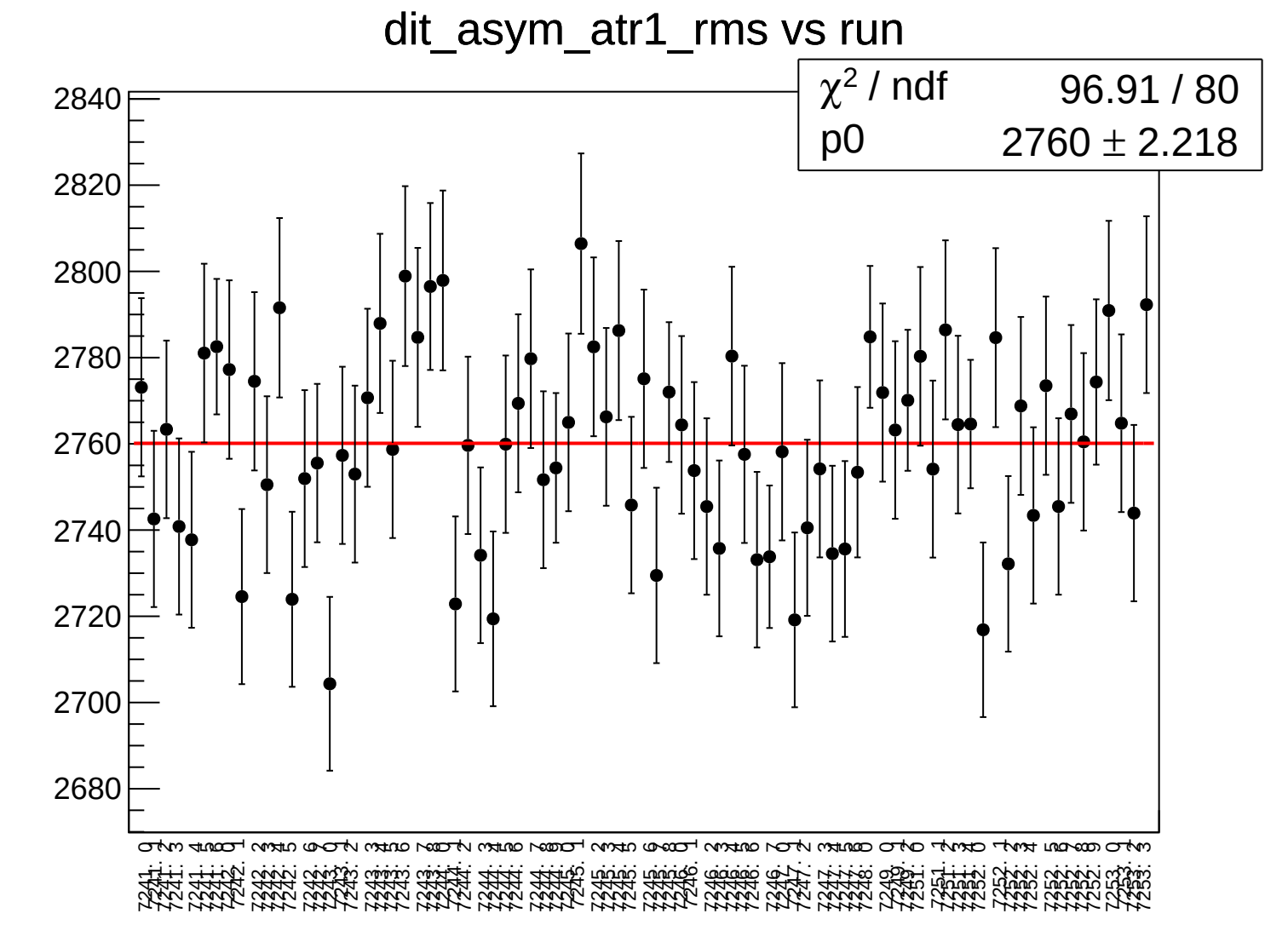

asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 100.6 / 80
p0 −994.8 ± 763.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean −31.65
Std Dev 0
2
1
0
−1
−2

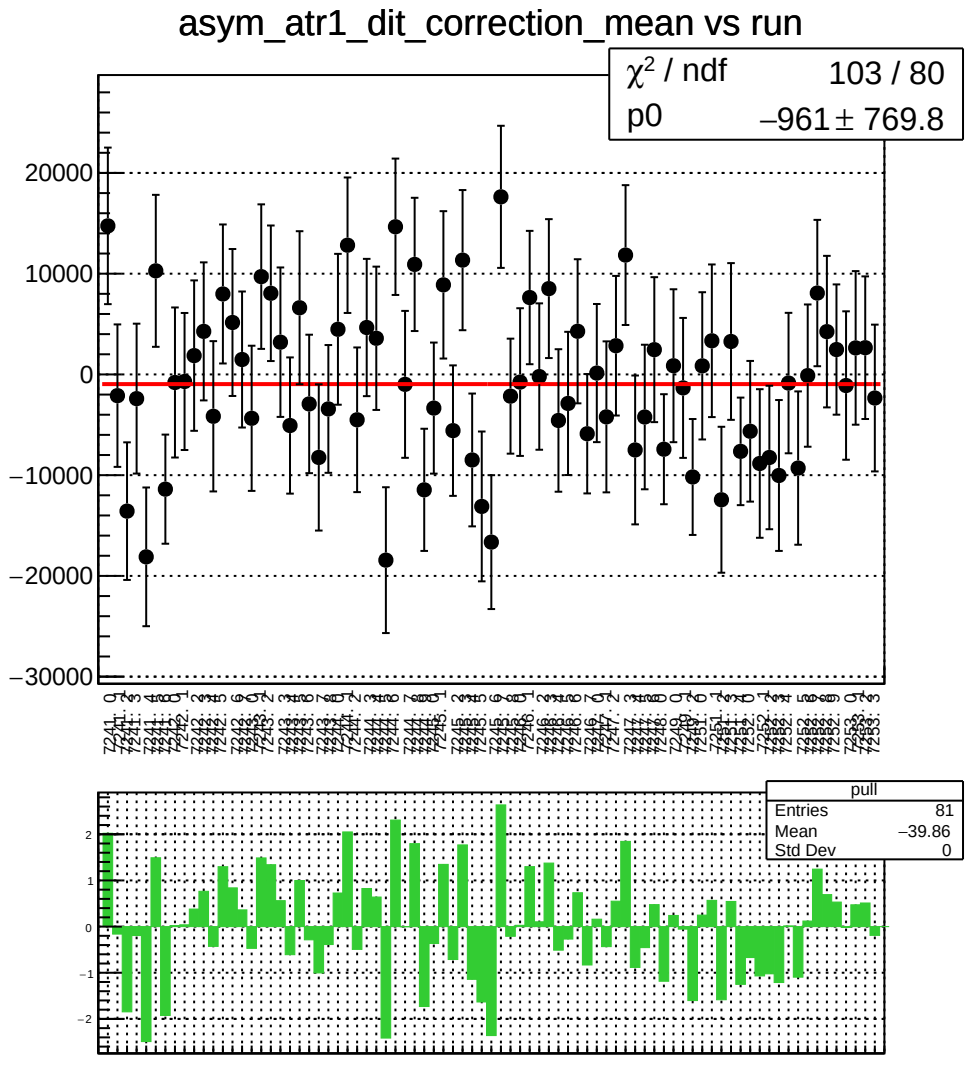

pull1D
Entries 81
Mean 0.03454
Std Dev 1.114
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

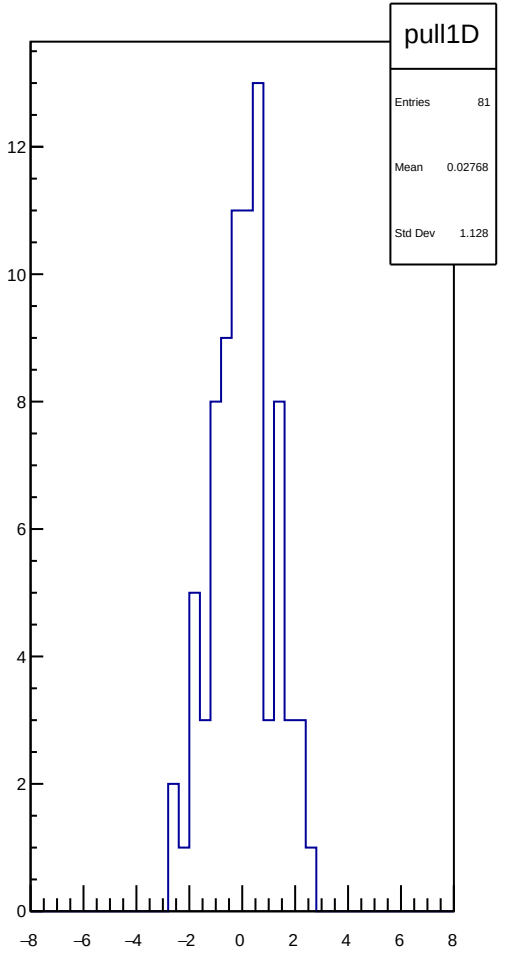

asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 7270 / 80
p0 670.5 ± 0.5399
800
750
700
650
600
550

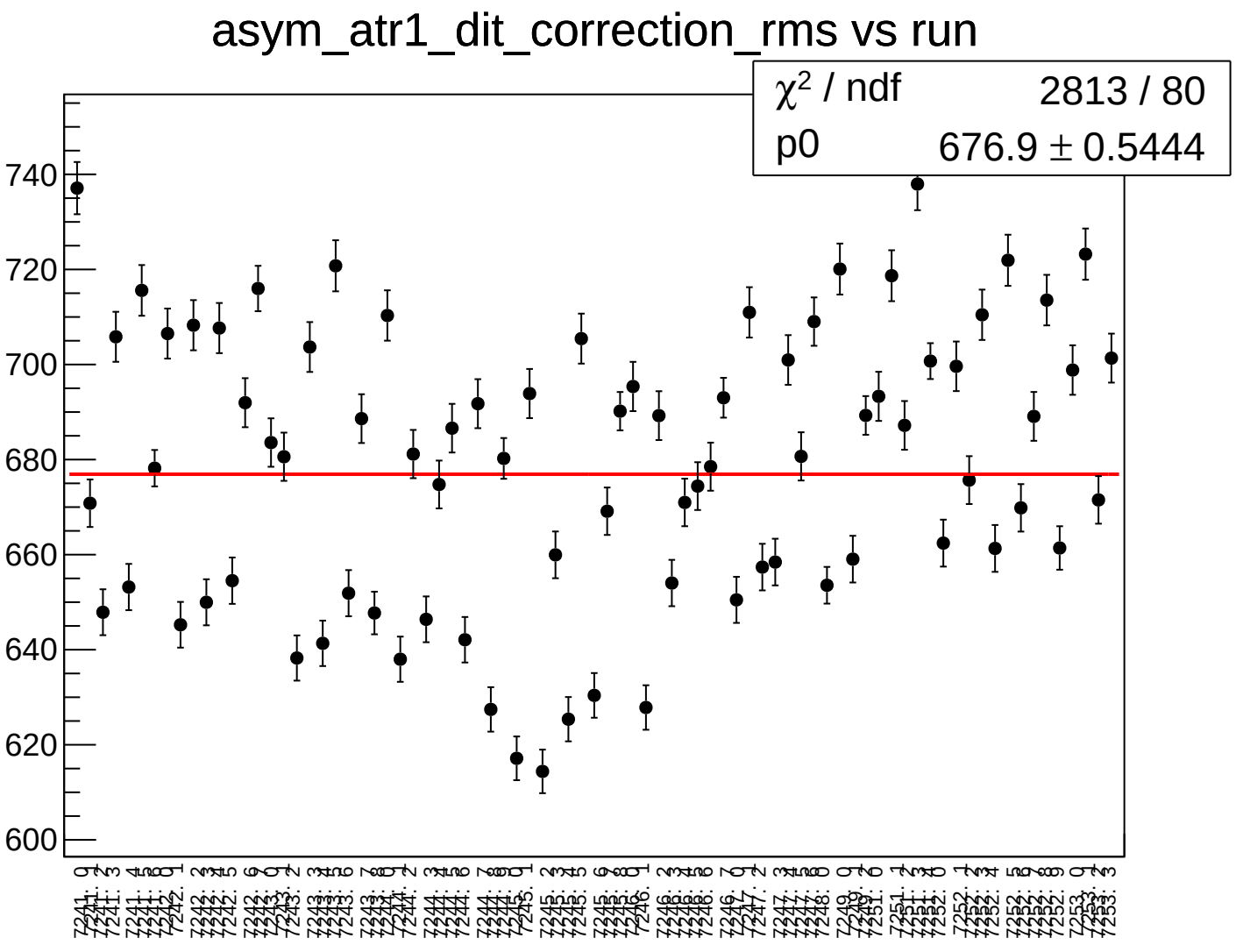

dit_asym_atr1_mean vs run
×10^3
χ² / ndf 81.62 / 80
p0 3590 ± 3136
100
50
0
−50
−100
pull
Entries 81
Mean −1869
Std Dev 0
2
1
0
−1
−2

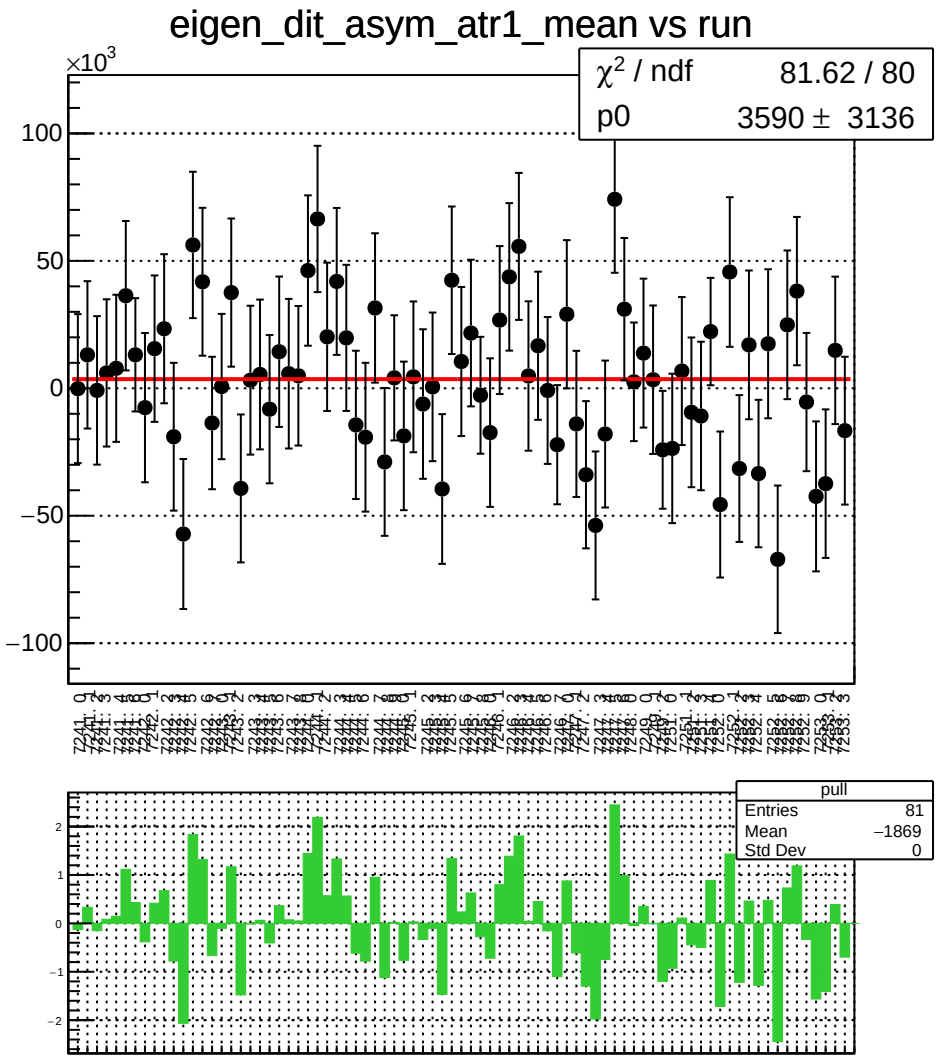

pull1D
Entries 81
Mean 0.002317
Std Dev 1.004
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

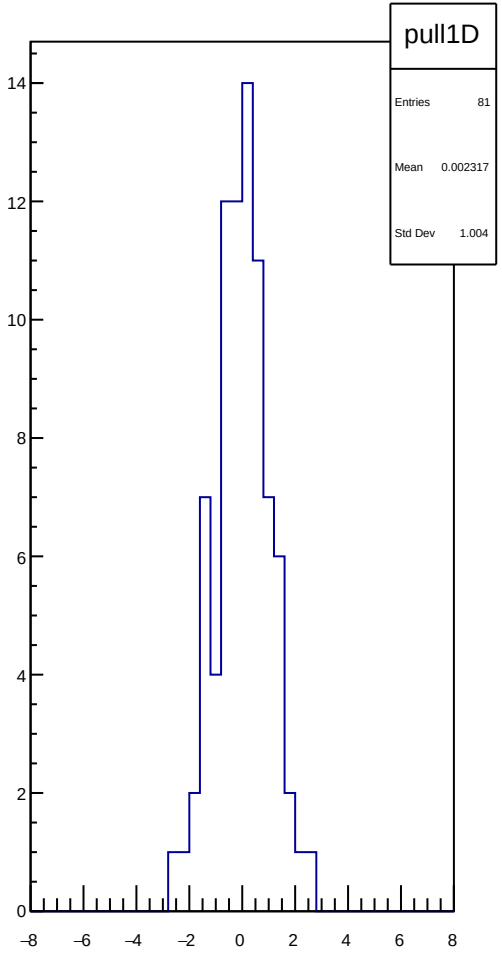

dit_asym_atr1_rms vs run
χ² / ndf 96.91 / 80
p0 2760 ± 2.218
2840
2820
2800
2780
2760
2740
2720
2700
2680

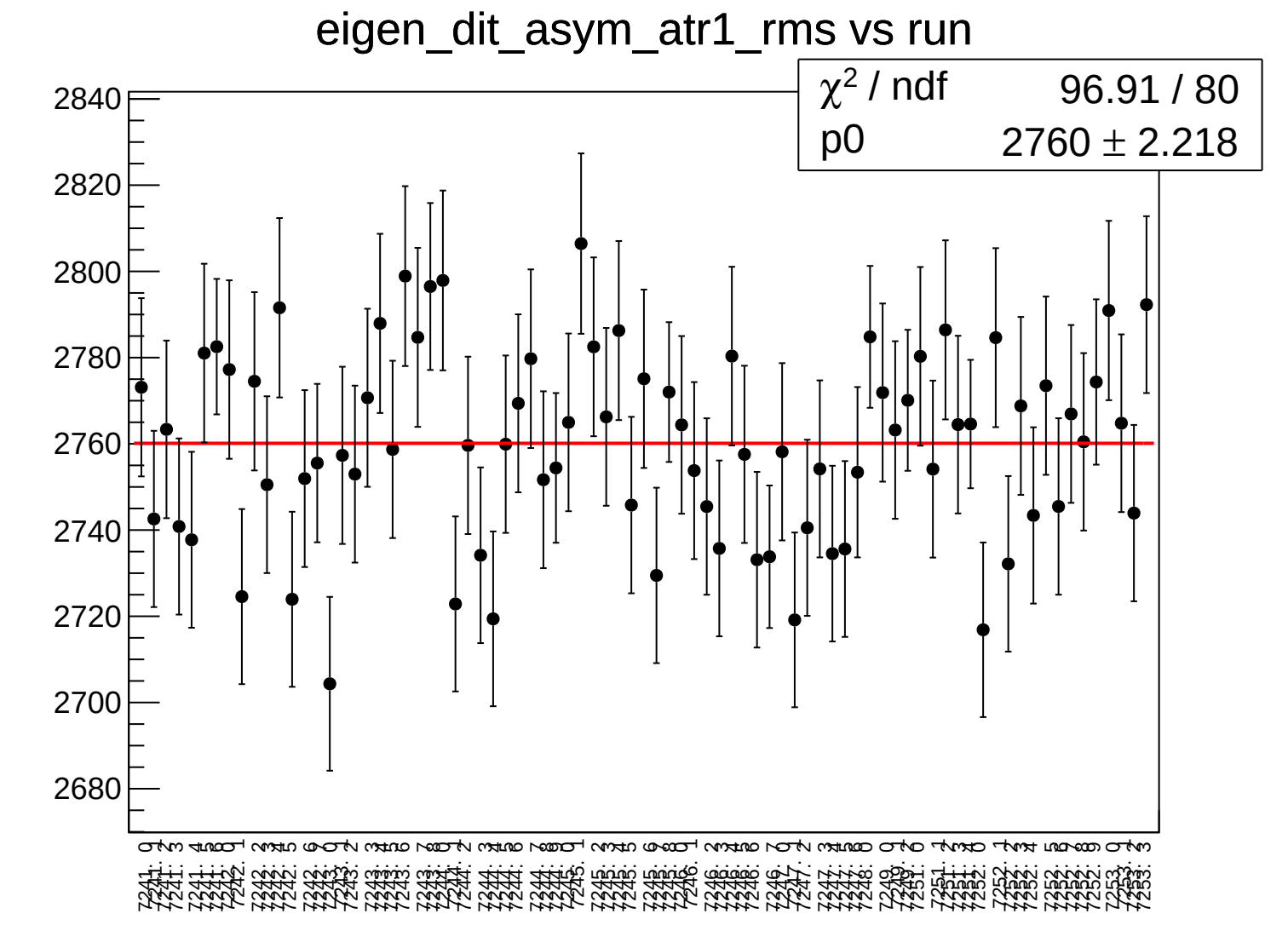

asym_atr1_dit_correction_mean vs run
χ² / ndf 103 / 80
p0 −961 ± 769.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean −39.86
Std Dev 0
2
1
0
−1
−2

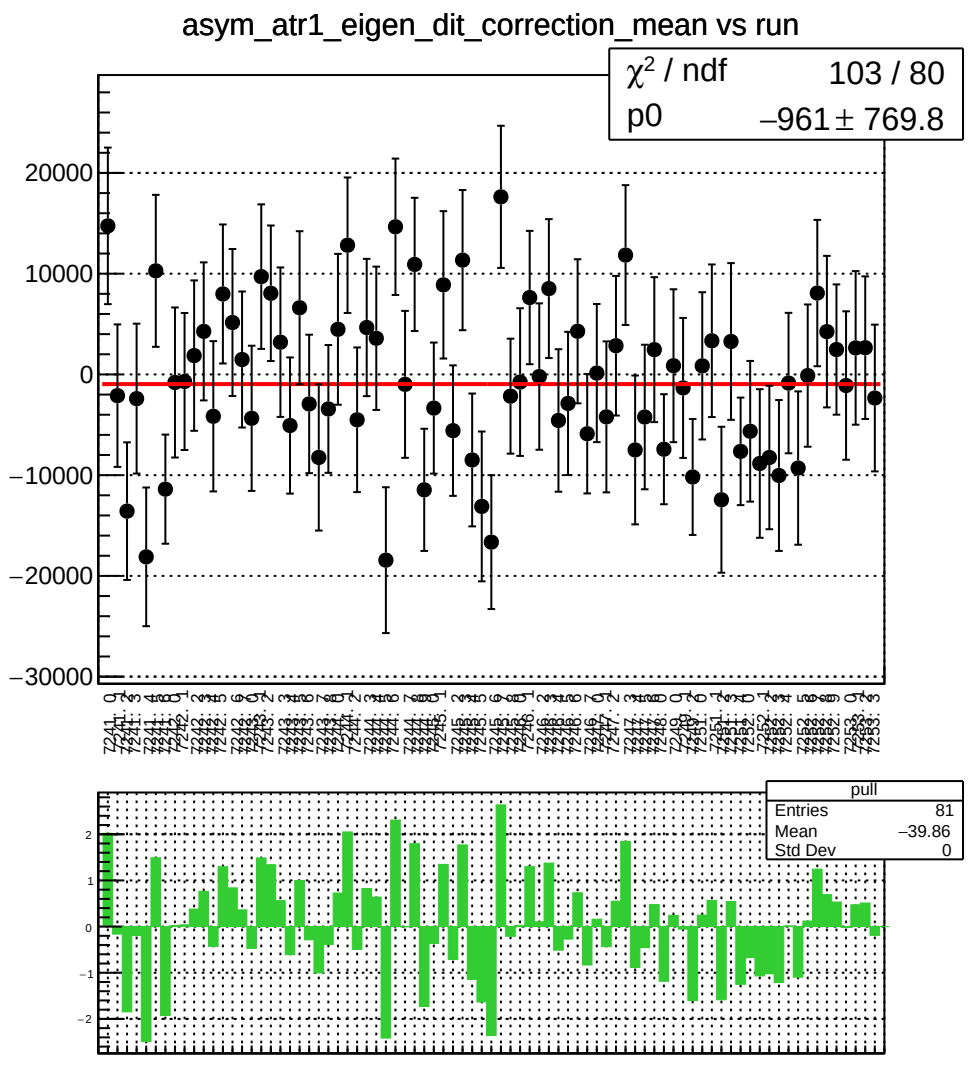

pull1D
Entries 81
Mean 0.02768
Std Dev 1.128
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

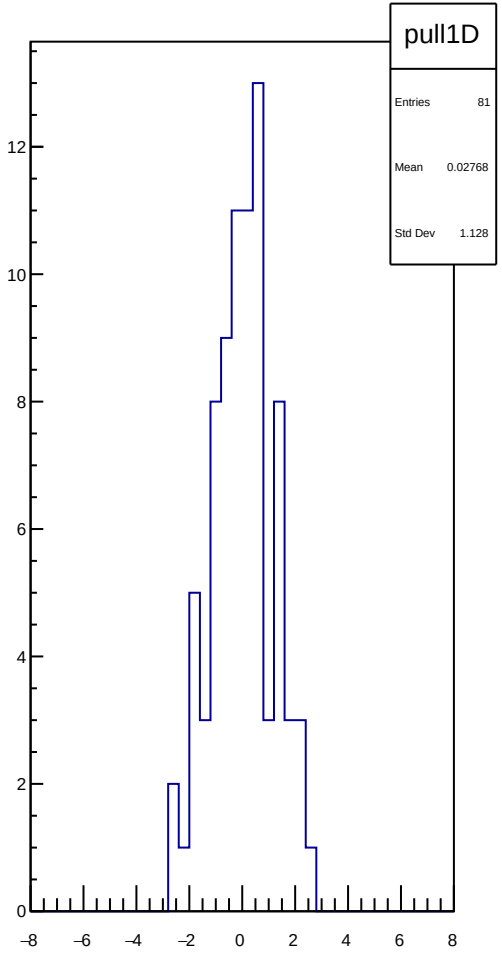

asym_atr1_dit_correction_rms vs run
χ² / ndf 2813 / 80
p0 676.9 ± 0.5444
740
720
700
680
660
640
620
600

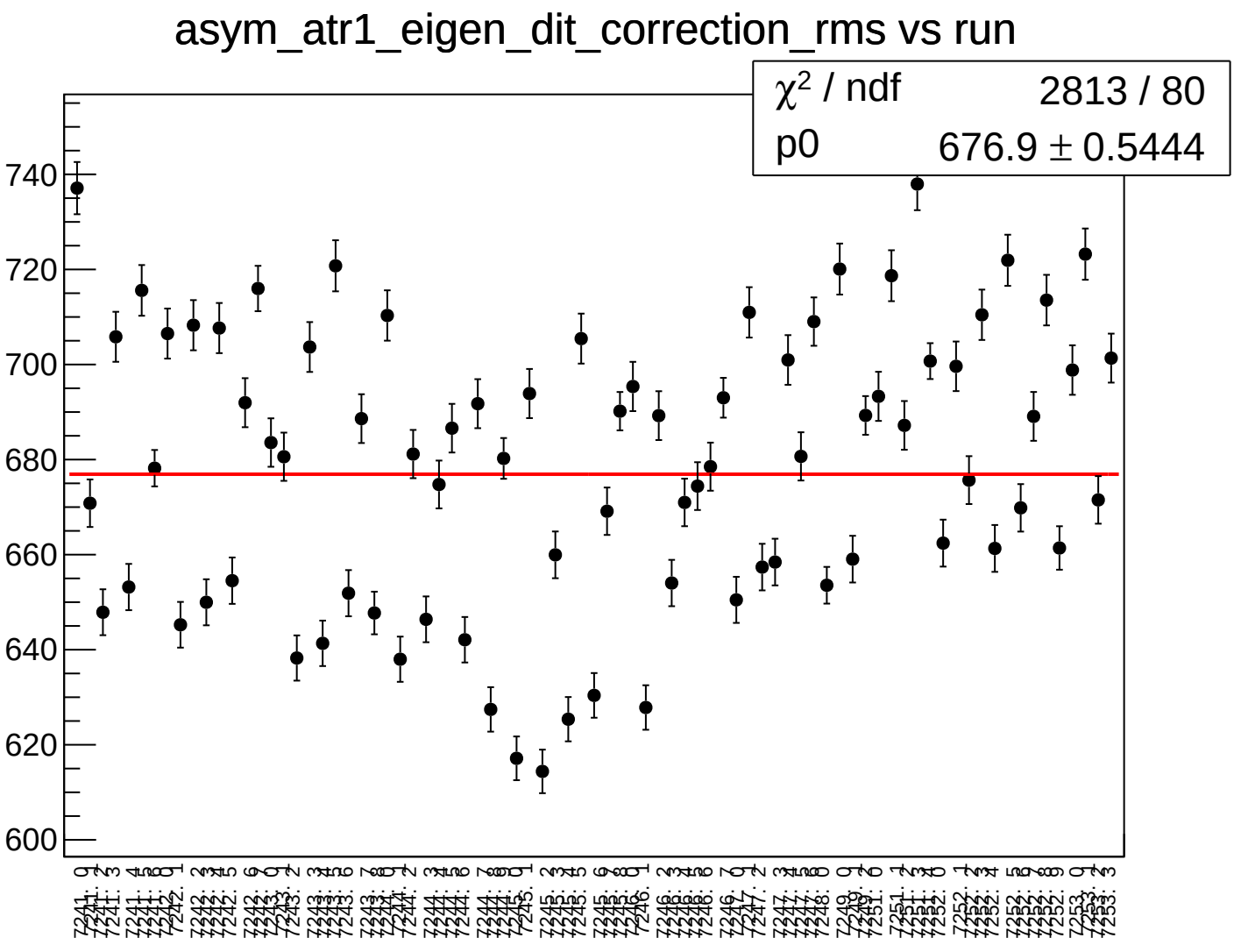

eigen_dit_asym_atr1_mean vs run
×10^3
χ^2 / ndf 81.62 / 80
p0 3590 ± 3136
100
50
0
−50
−100
pull
Entries 81
Mean −1869
Std Dev 0
2
1
0
−1
−2

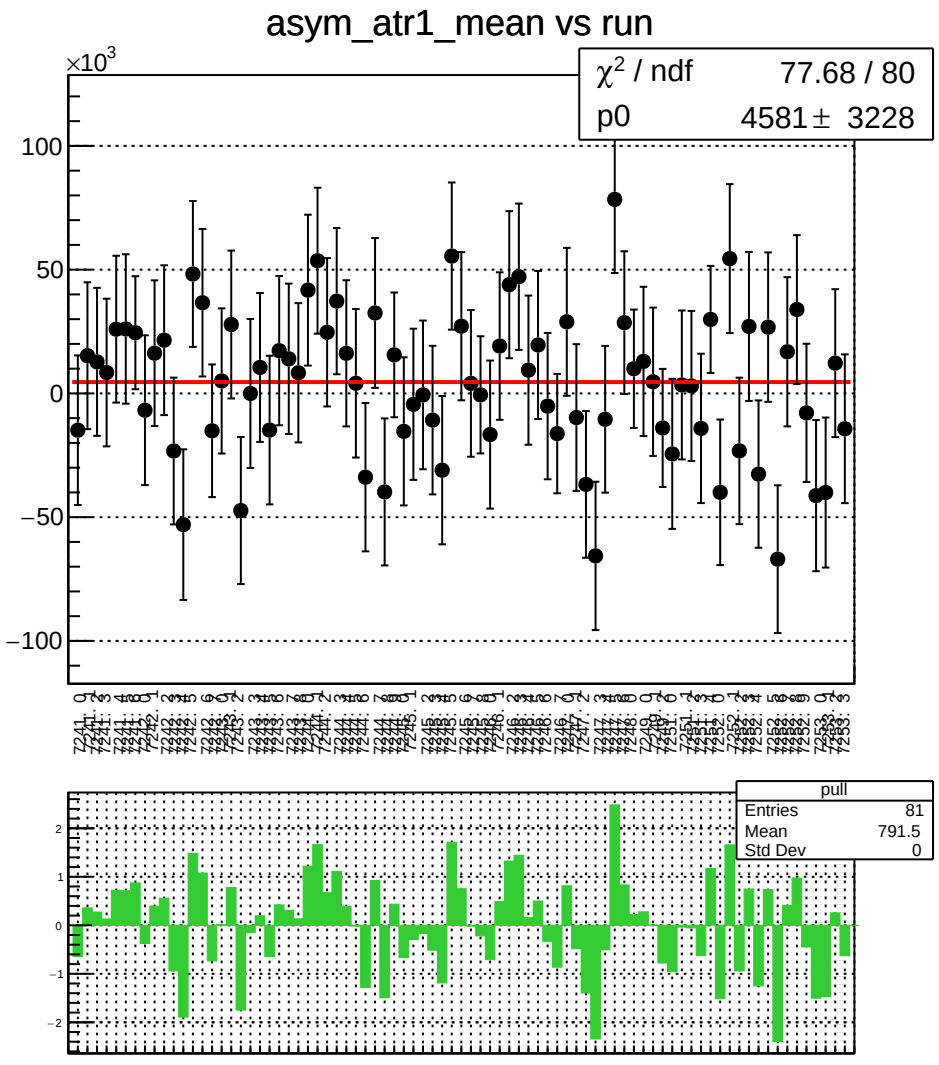

pull1D
Entries 81
Mean 0.002317
Std Dev 1.004
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

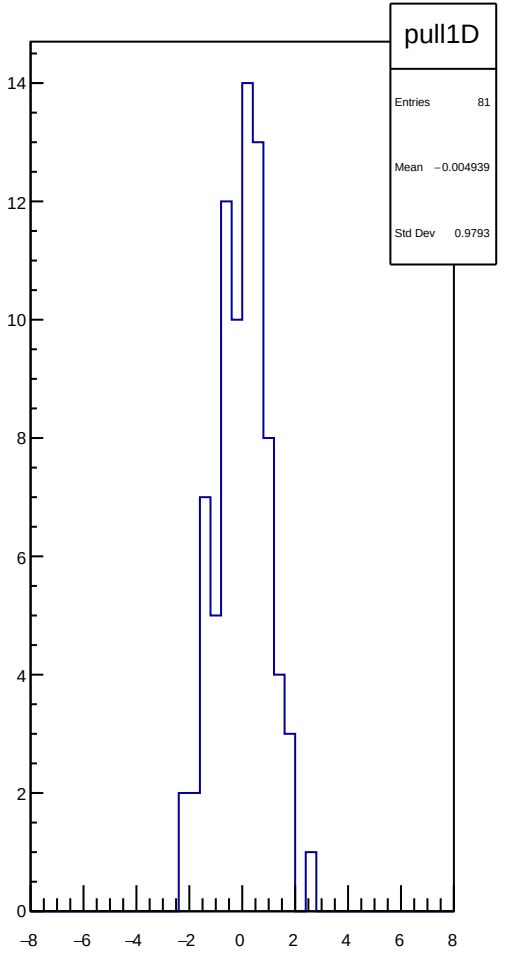

eigen_dit_asym_atr1_rms vs run
χ^2 / ndf 96.91 / 80
p0 2760 ± 2.218
2840
2820
2800
2780
2760
2740
2720
2700
2680

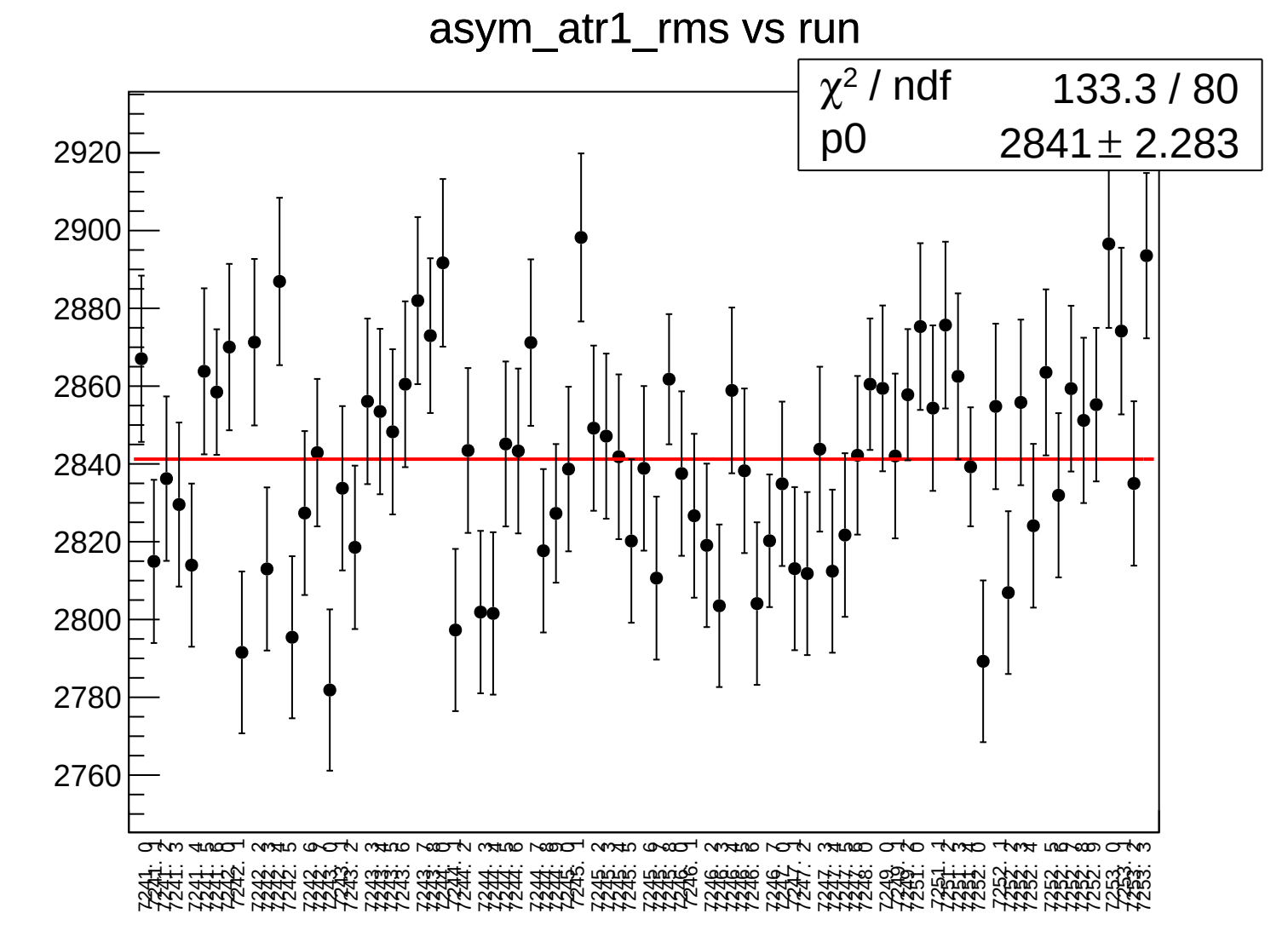

asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 103 / 80
p0 −961 ± 769.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean −39.86
Std Dev 0
2
1
0
−1
−2

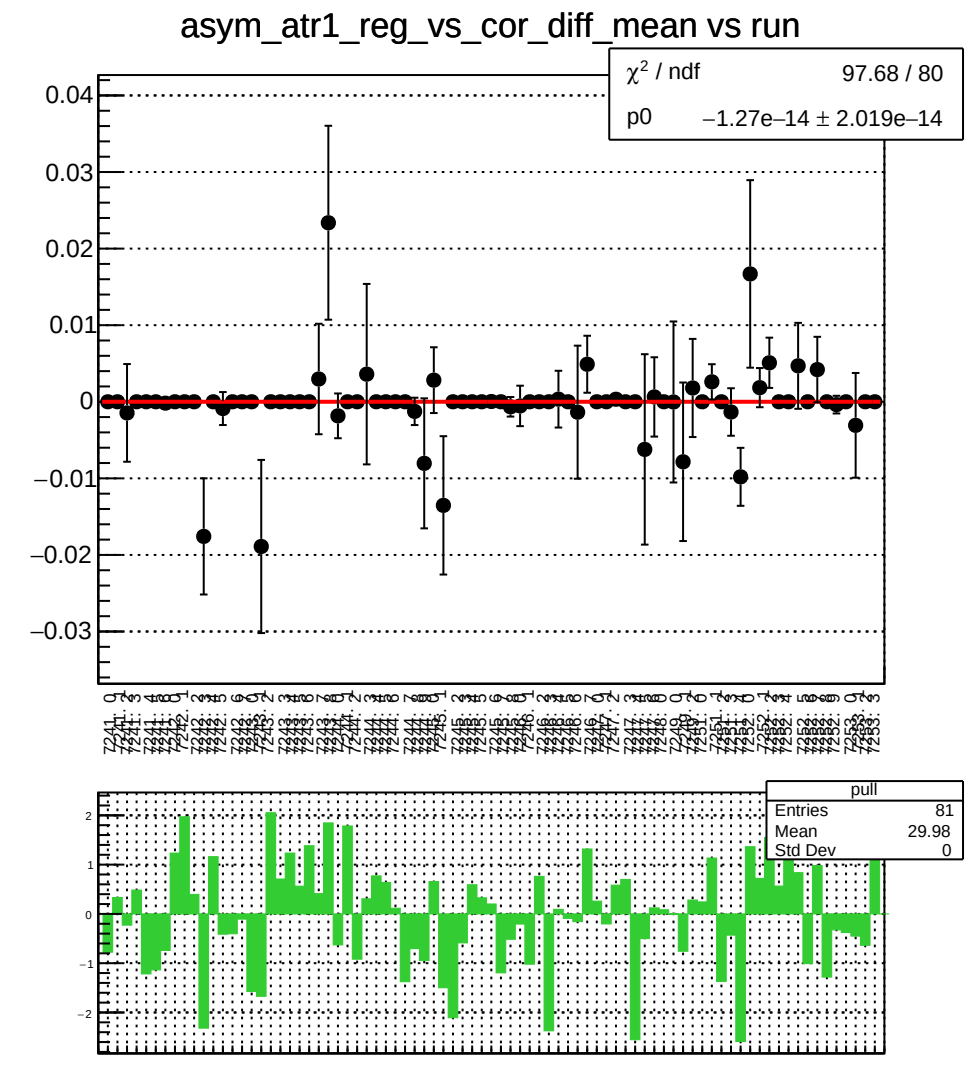

pull1D
Entries 81
Mean 0.02768
Std Dev 1.128
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

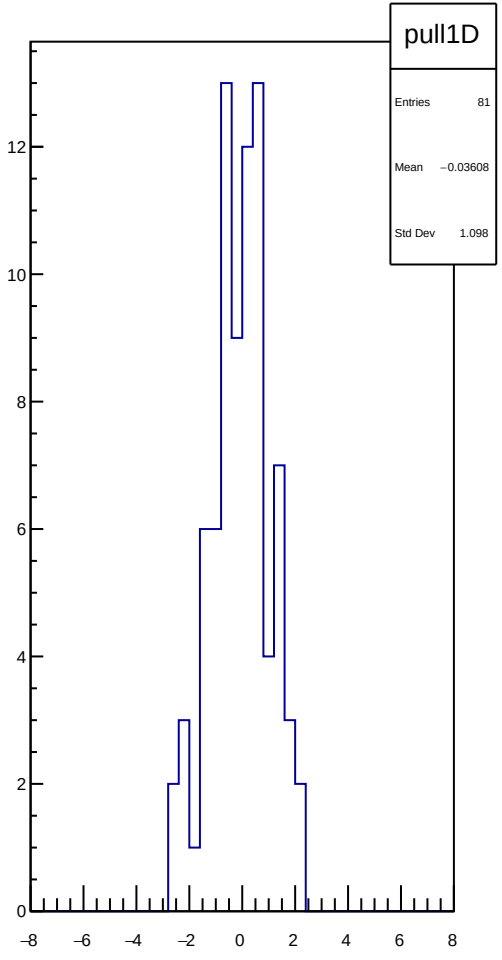

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 2813 / 80
p0 676.9 ± 0.5444
740
720
700
680
660
640
620
600

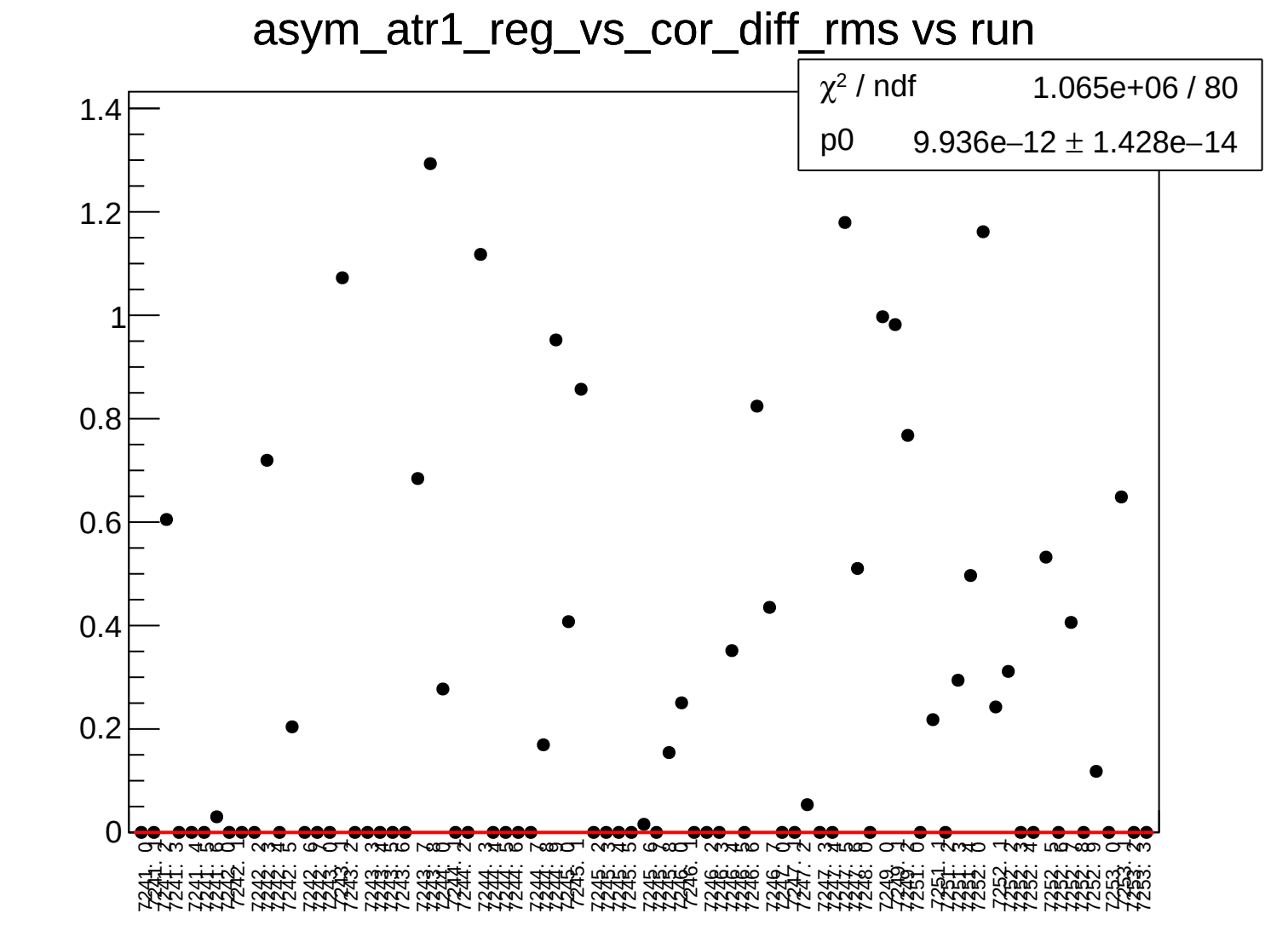

asym_atr1_mean vs run
×10^3
χ² / ndf 77.68 / 80
p0 4581 ± 3228
100
50
0
−50
−100
pull
Entries 81
Mean 791.5
Std Dev 0
2
1
0
−1
−2

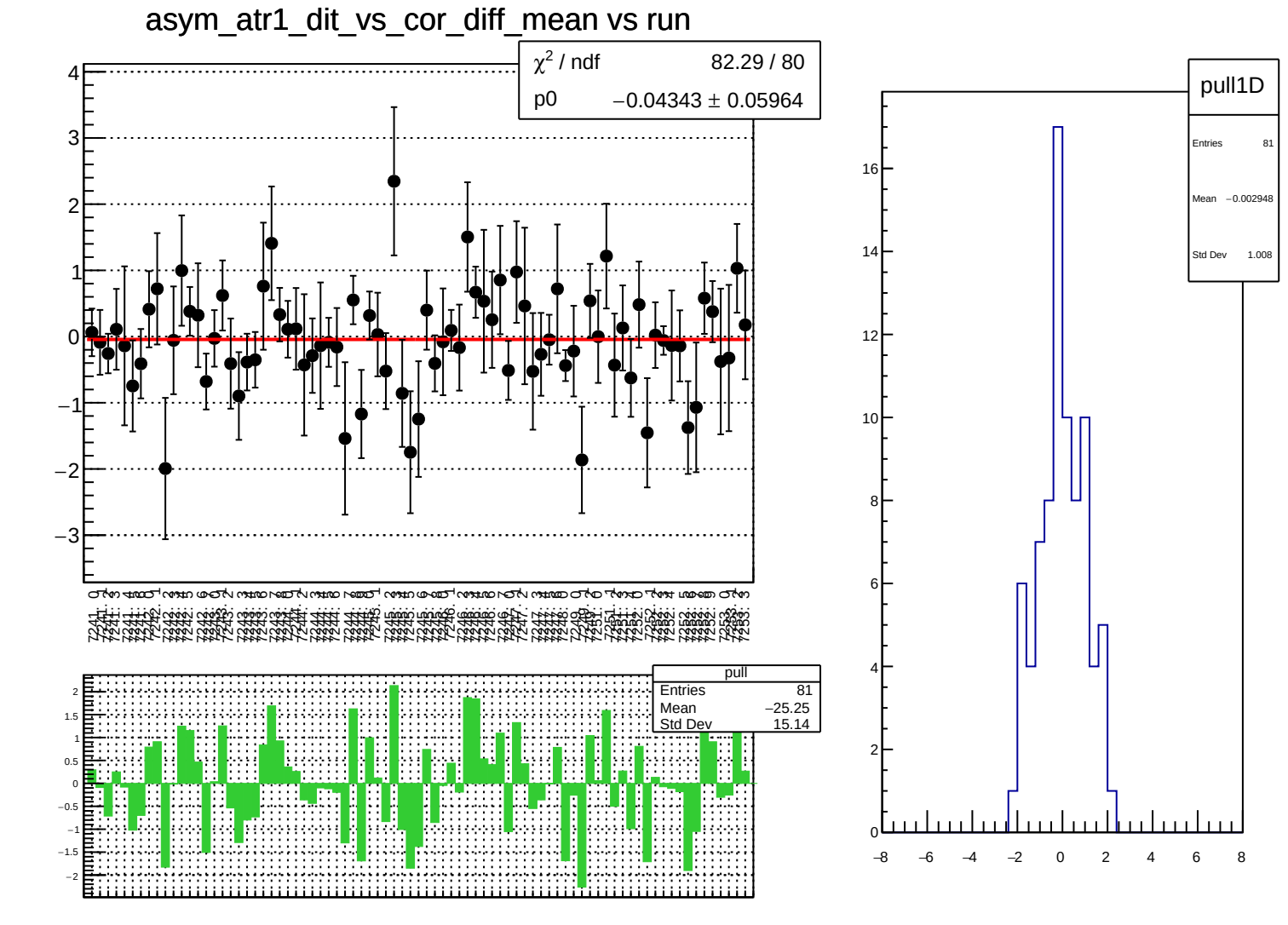

pull1D
Entries 81
Mean −0.004939
Std Dev 0.9793
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

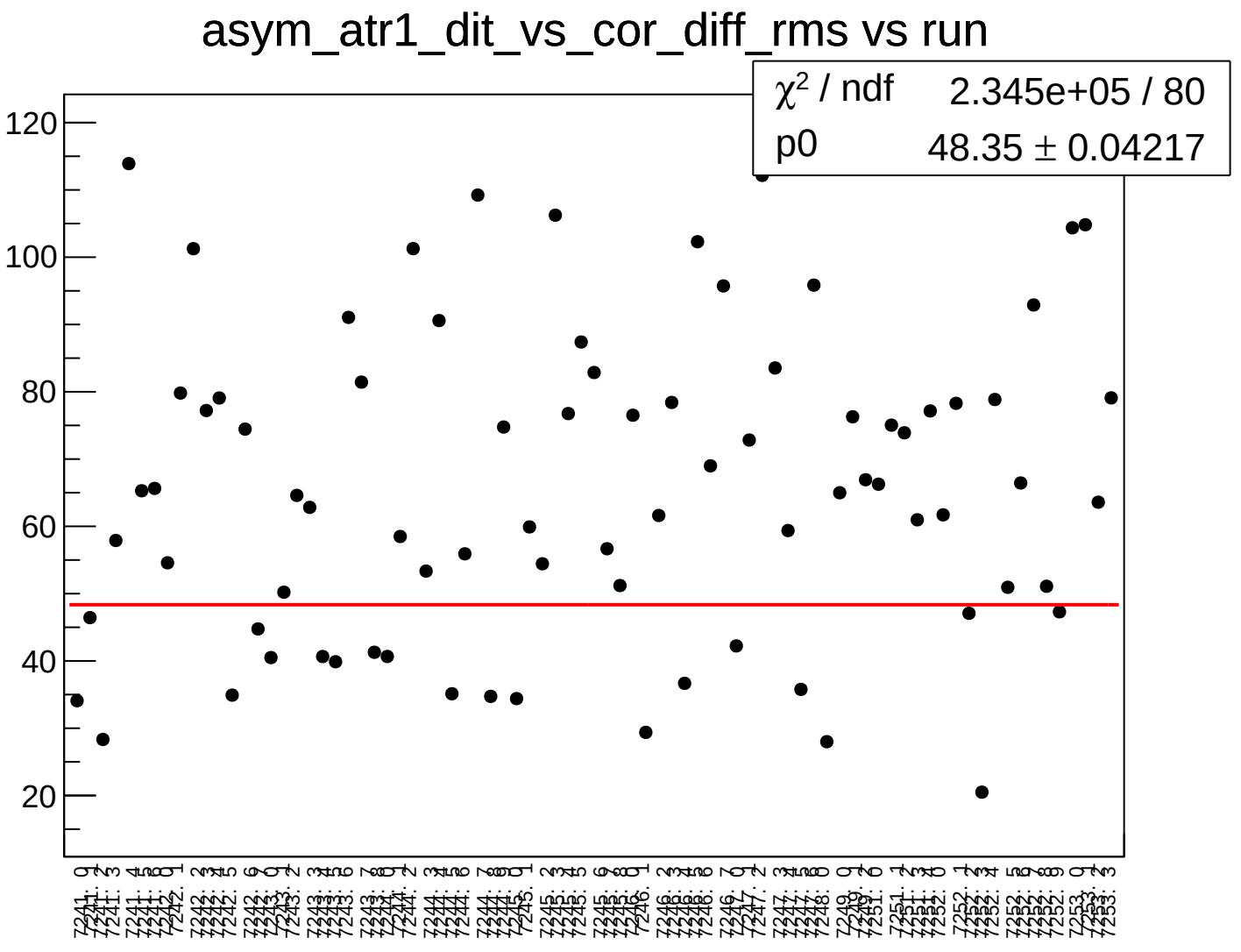

asym_atr1_rms vs run
χ² / ndf 133.3 / 80
p0 2841 ± 2.283
2920
2900
2880
2860
2840
2820
2800
2780
2760

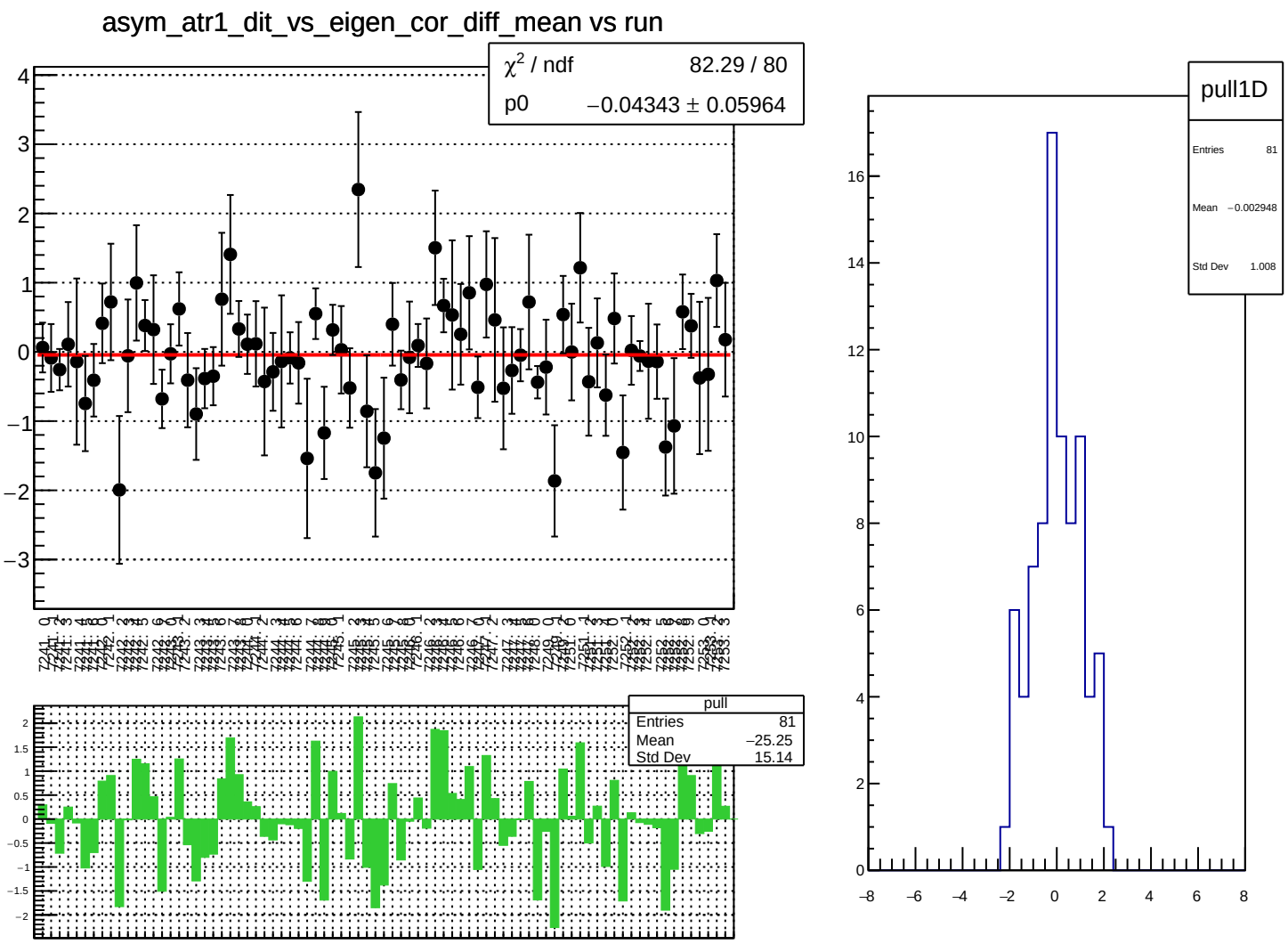

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 97.68 / 80
p0 −1.27e−14 ± 2.019e−14
pull
Entries 81
Mean 29.98
Std Dev 0

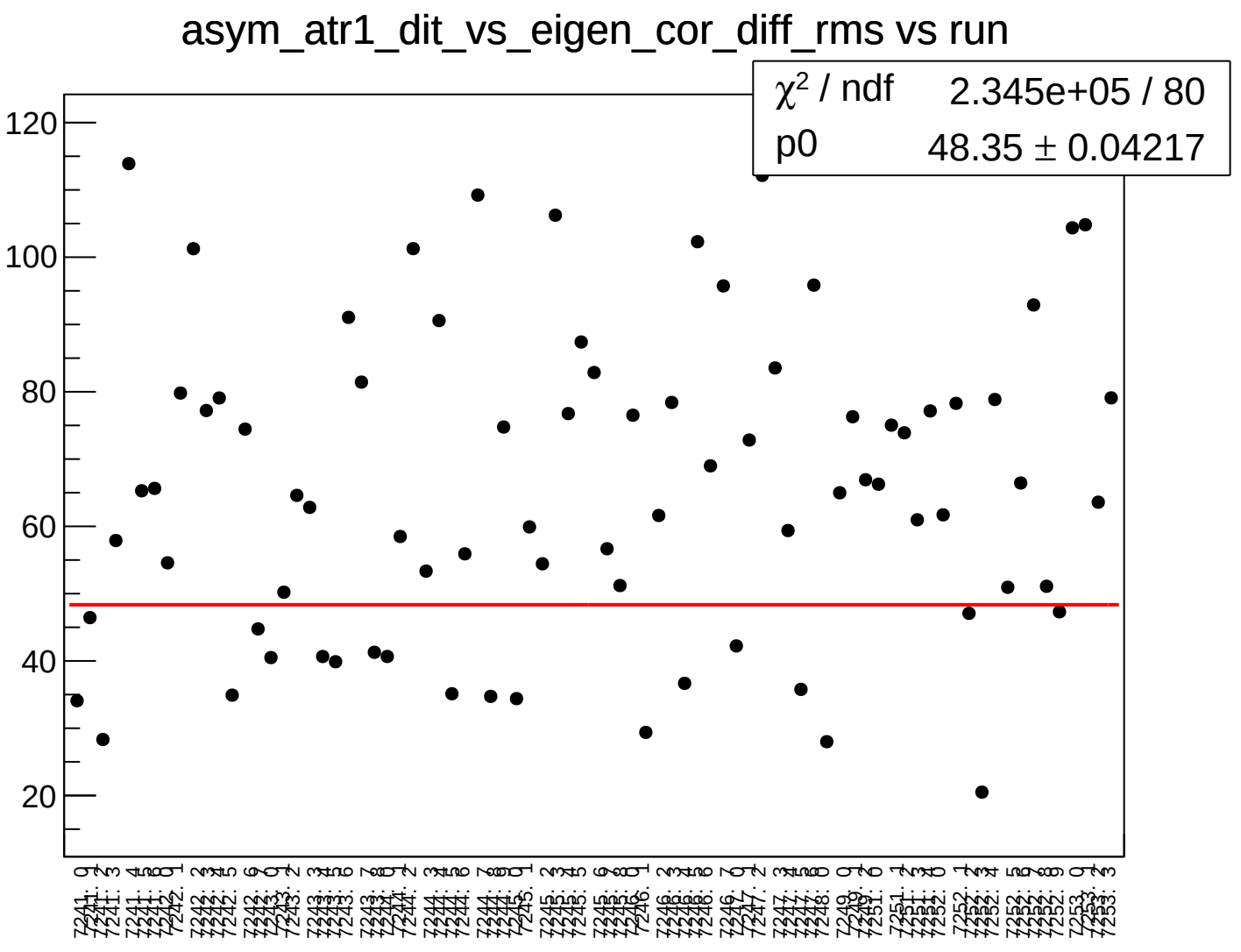

pull1D
Entries 81
Mean −0.03608
Std Dev 1.098

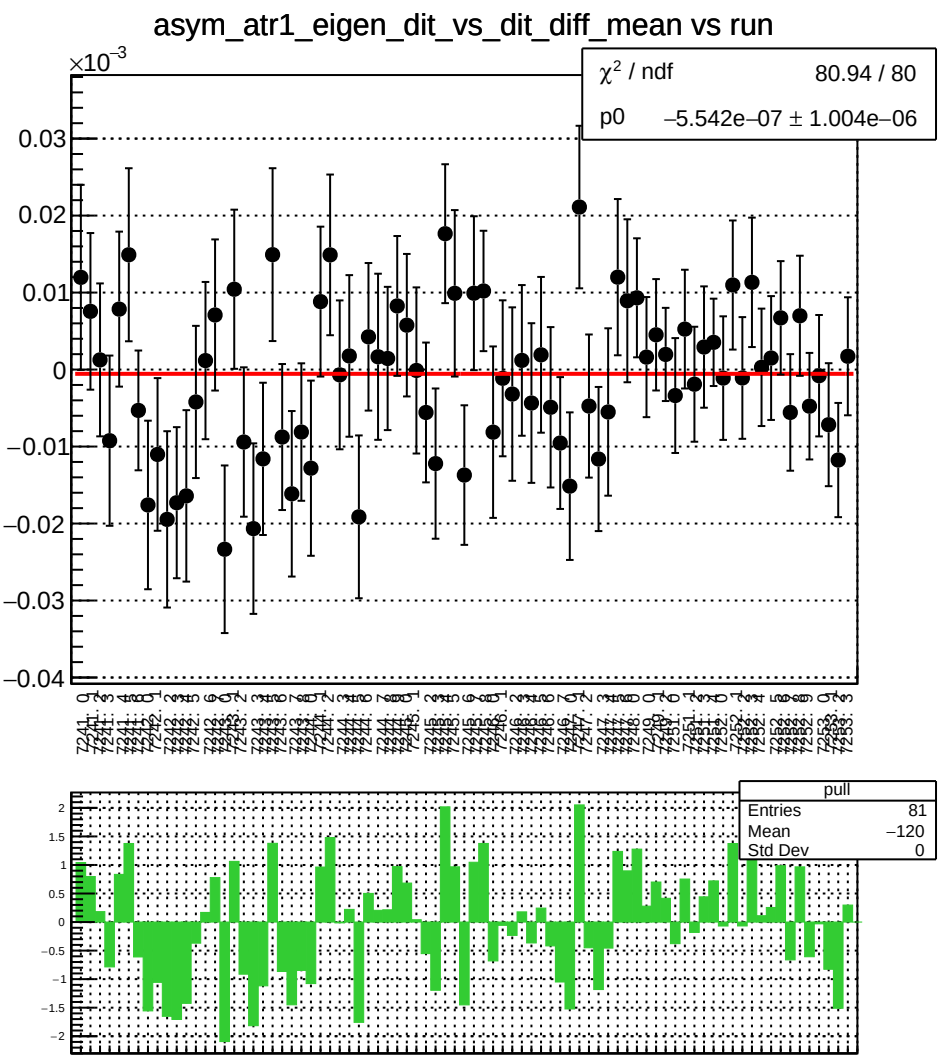

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.065e+06 / 80
p0 9.936e−12 ± 1.428e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

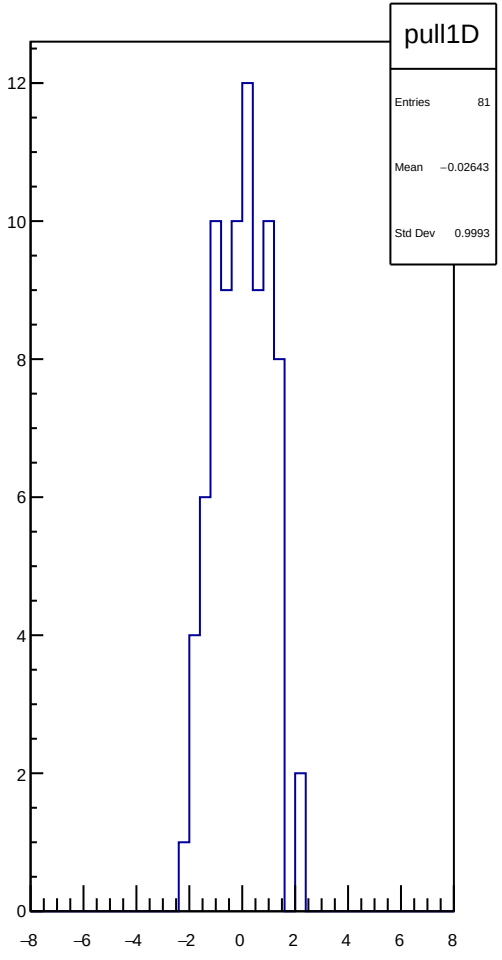

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 82.29 / 80
p0 −0.04343 ± 0.05964
pull
Entries 81
Mean −25.25
Std Dev 15.14
pull1D
Entries 81
Mean −0.002948
Std Dev 1.008

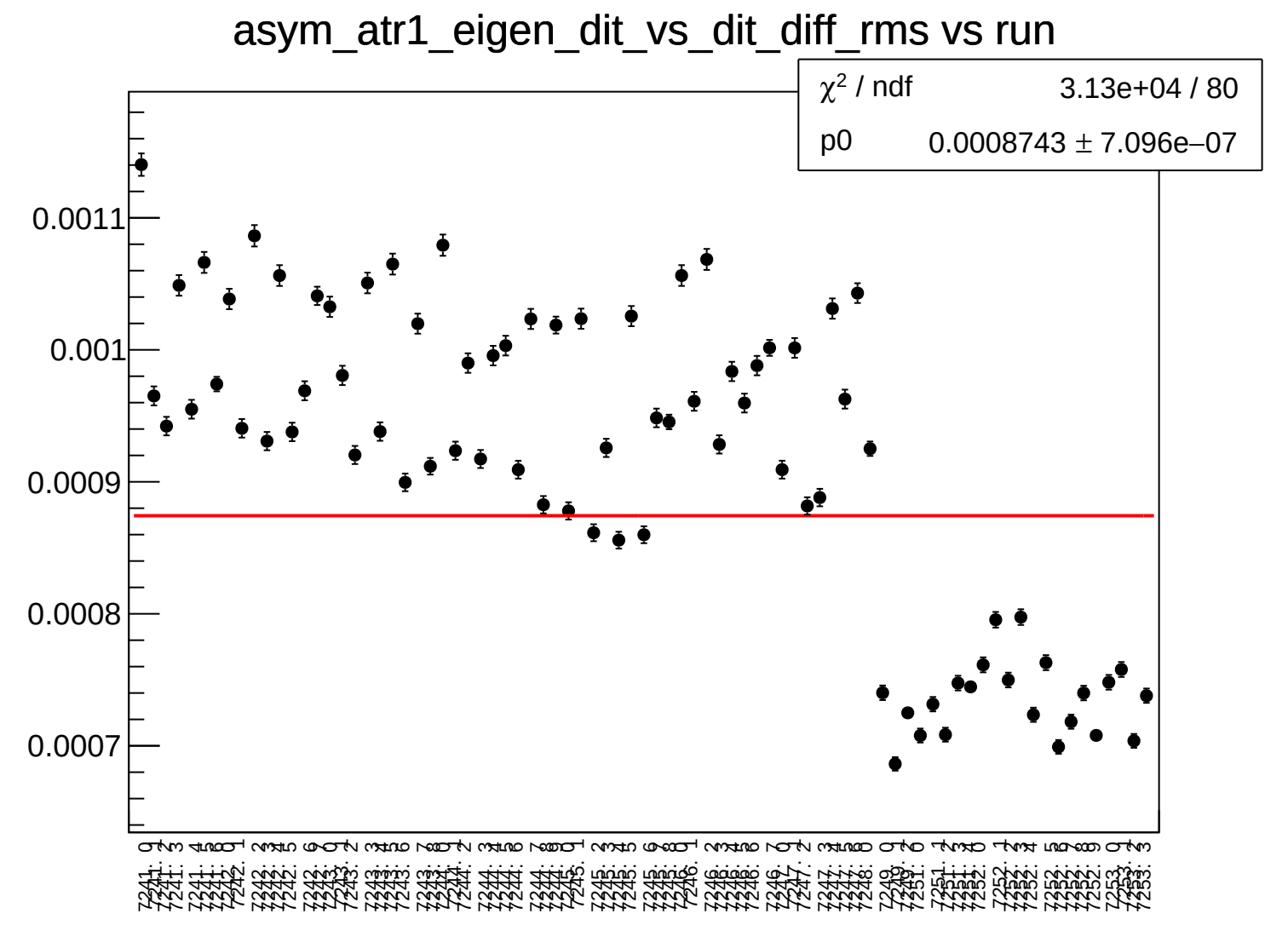

asym_atr1_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.345e+05 / 80
p0 48.35 ± 0.04217
120
100
80
60
40
20

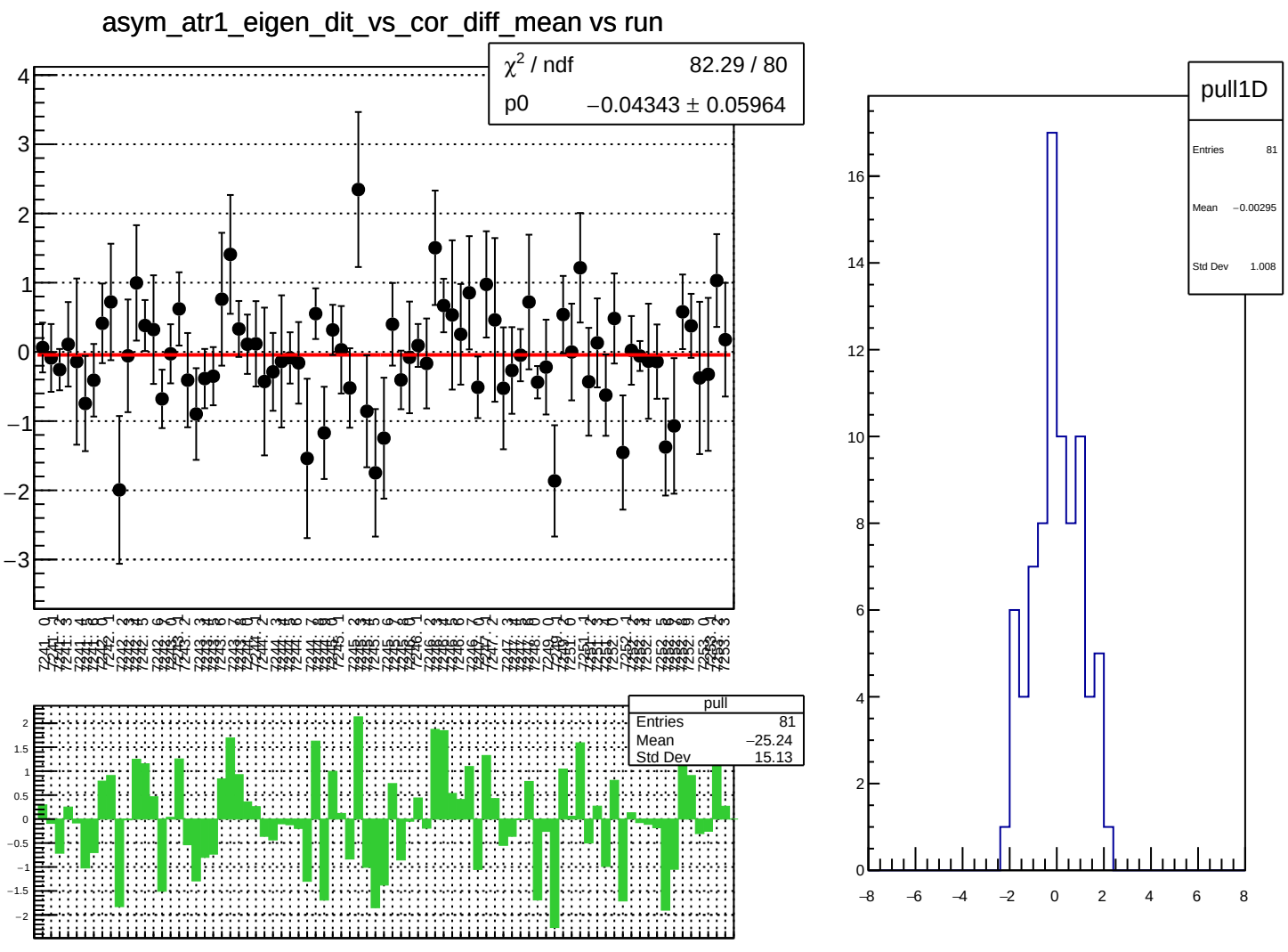

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.29 / 80
p0 −0.04343 ± 0.05964
pull
Entries 81
Mean −25.25
Std Dev 15.14
pull1D
Entries 81
Mean −0.002948
Std Dev 1.008

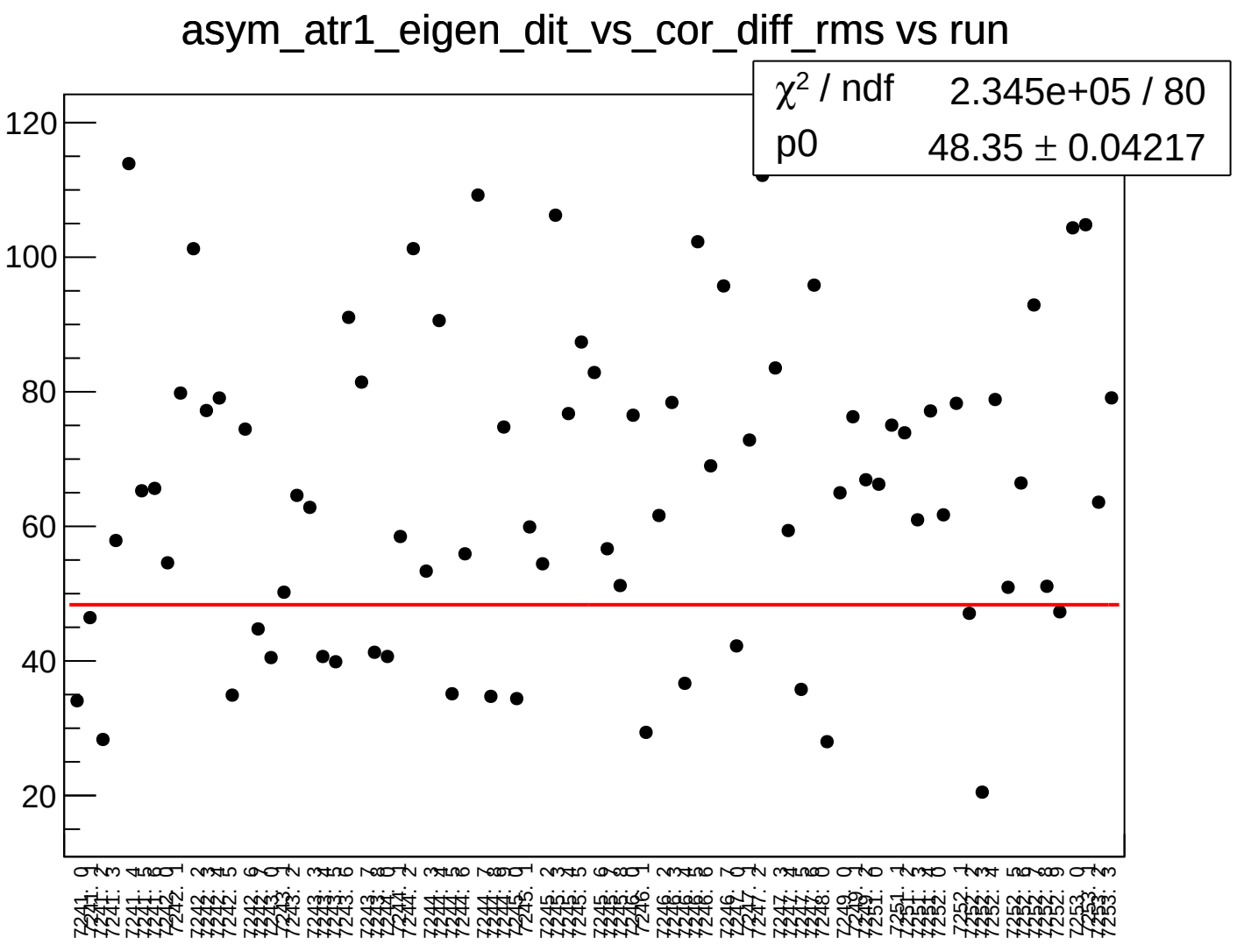

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.345e+05 / 80
p0 48.35 ± 0.04217
120
100
80
60
40
20

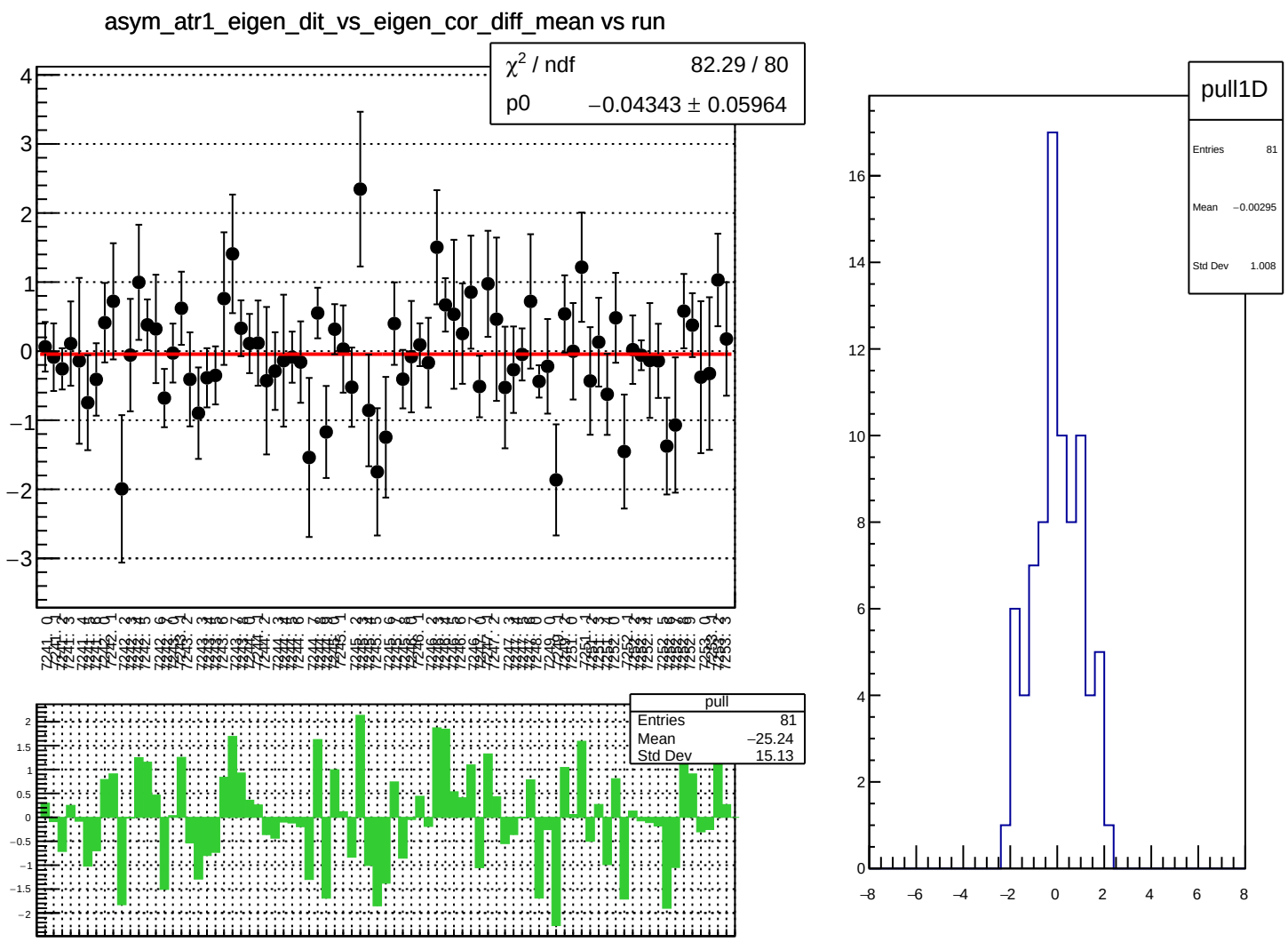

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.94 / 80
p0 −5.542e−07 ± 1.004e−06
pull
Entries 81
Mean −120
Std Dev 0

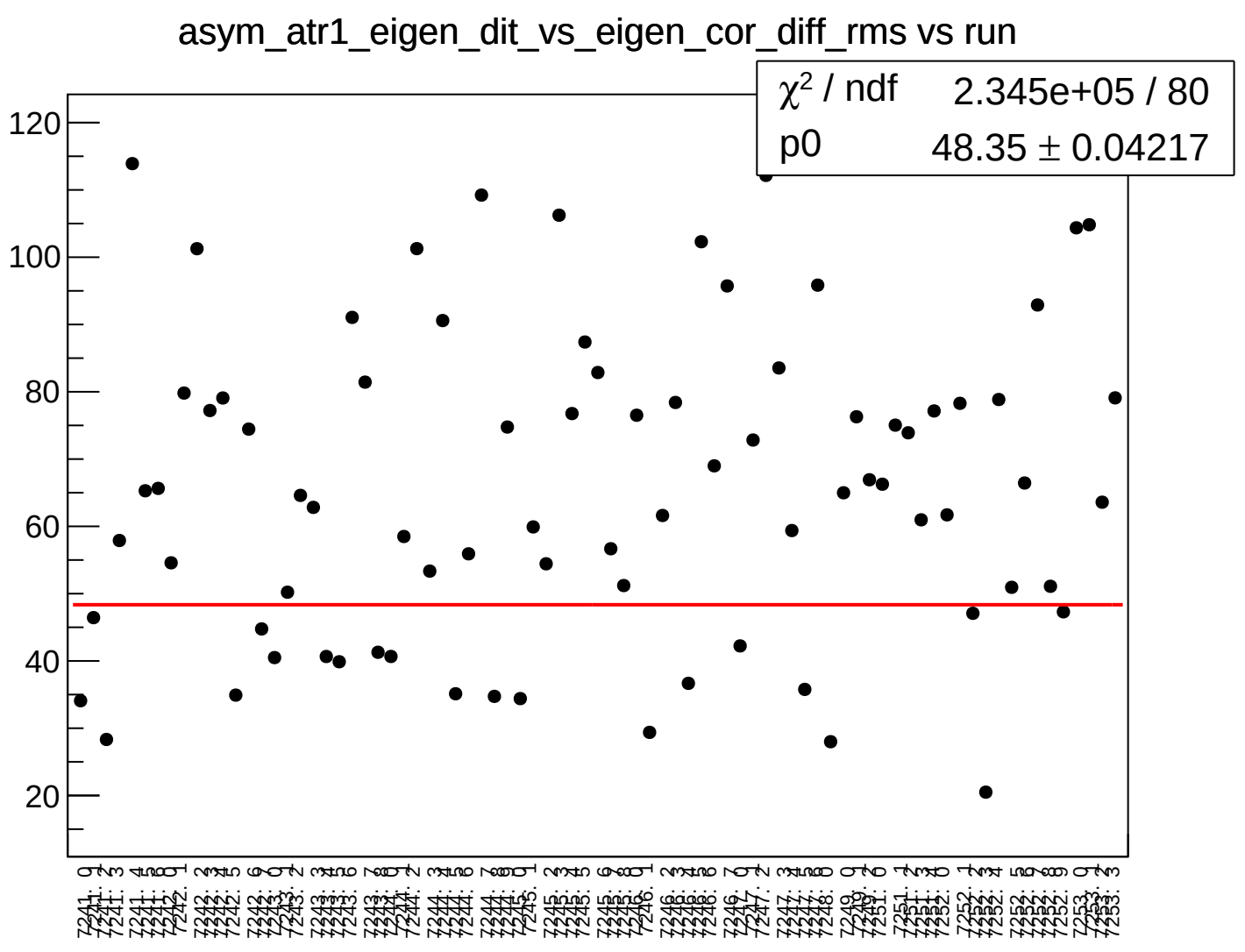

pull1D
Entries 81
Mean −0.02643
Std Dev 0.9993

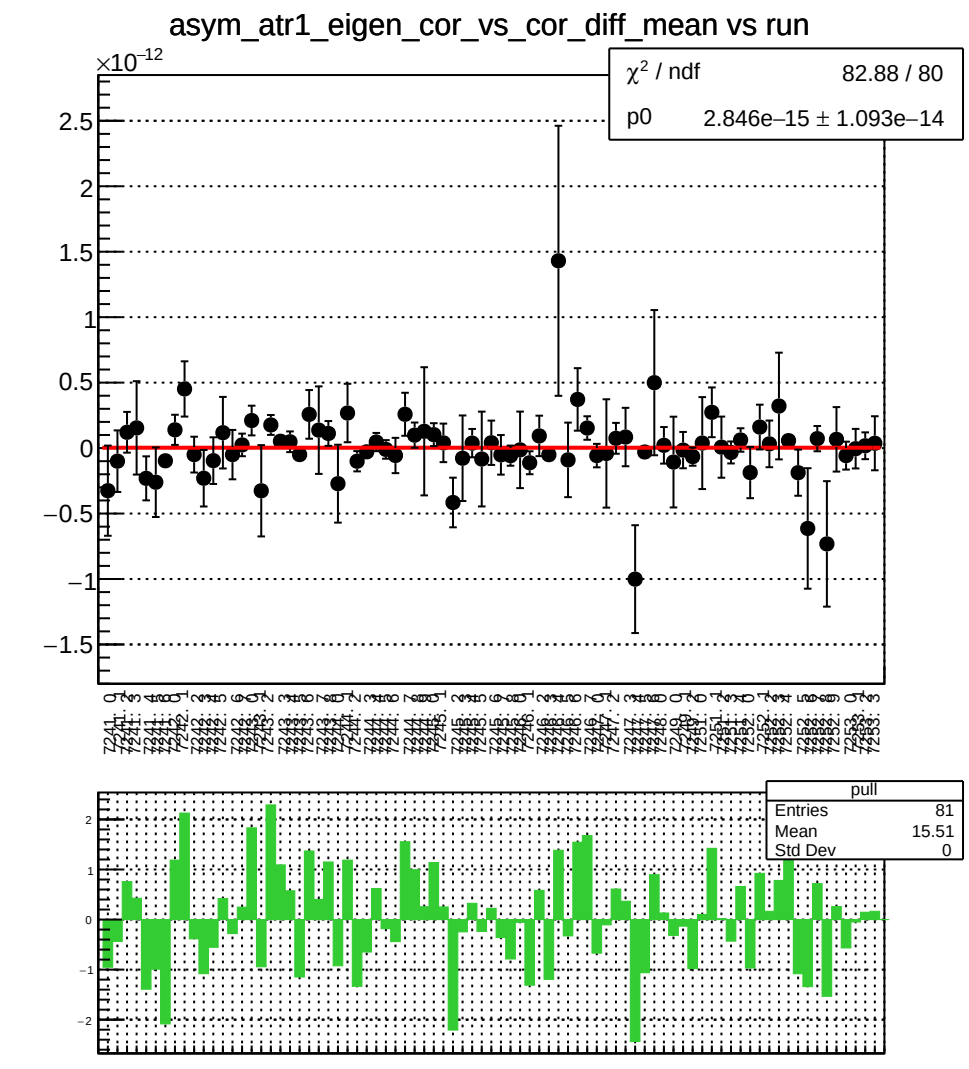

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.13e+04 / 80
p0 0.0008743 ± 7.096e−07
0.0011
0.001
0.0009
0.0008
0.0007

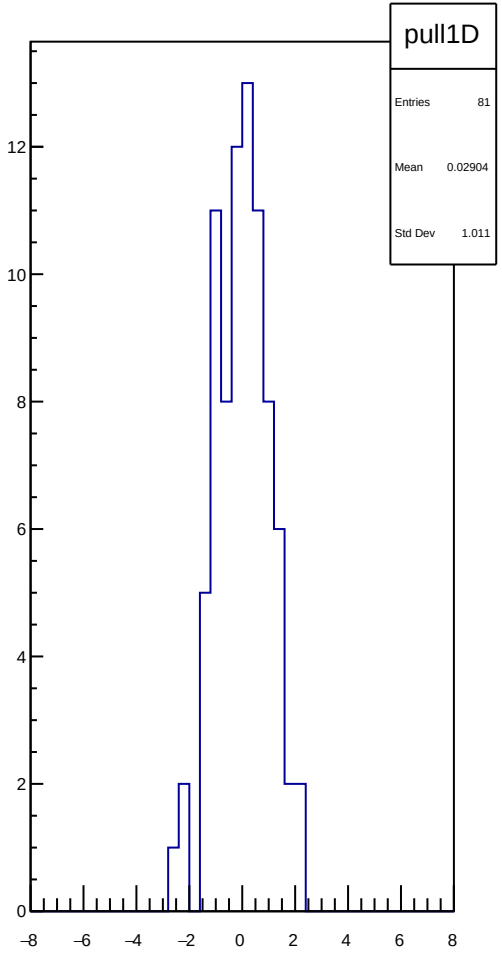

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.29 / 80
p0 −0.04343 ± 0.05964
pull
Entries 81
Mean −25.24
Std Dev 15.13
pull1D
Entries 81
Mean −0.00295
Std Dev 1.008

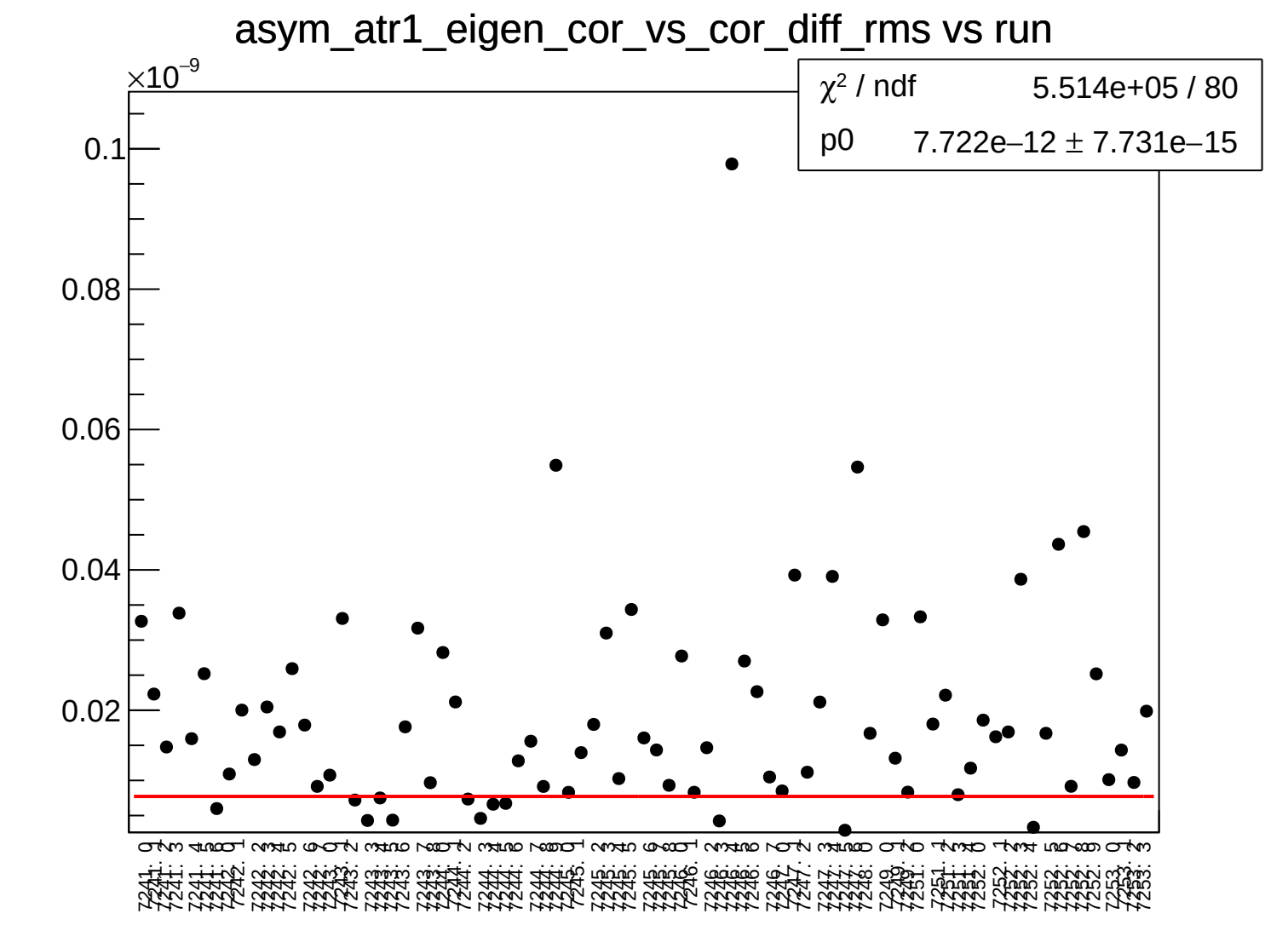

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.345e+05 / 80
p0 48.35 ± 0.04217
120
100
80
60
40
20

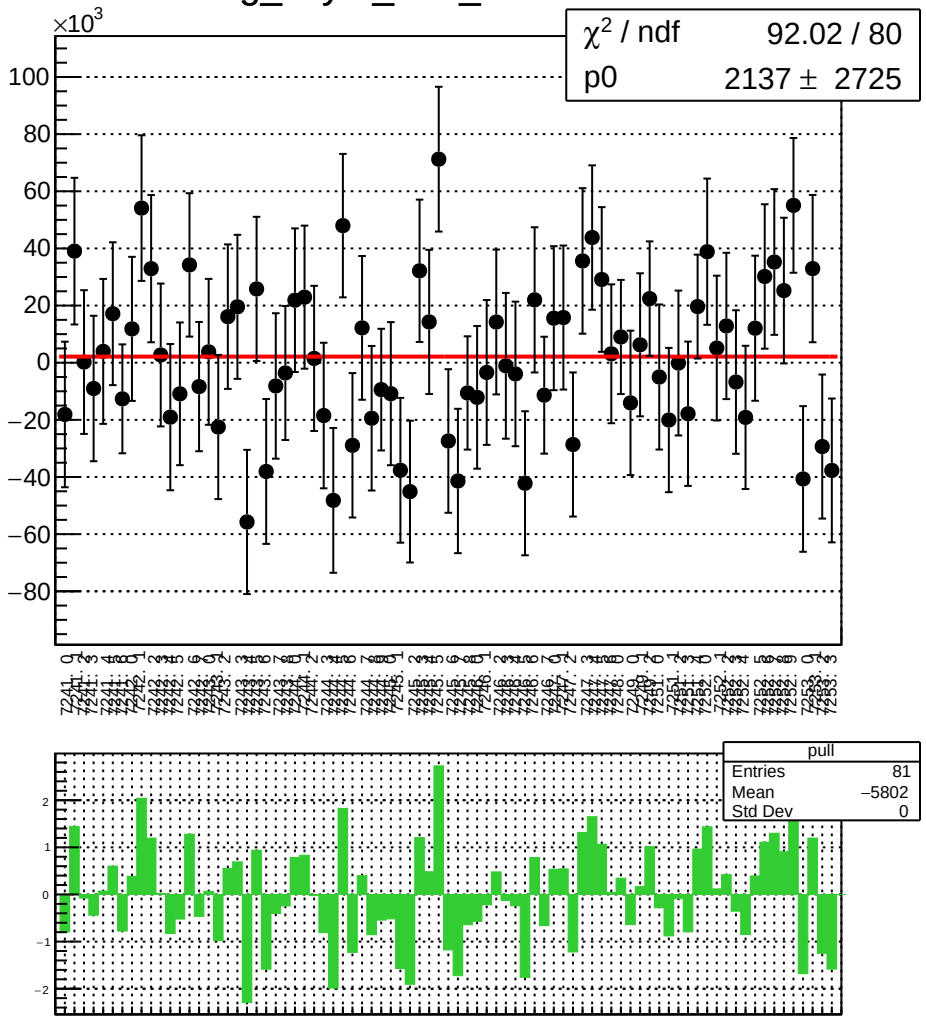

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.29 / 80
p0 −0.04343 ± 0.05964
pull
Entries 81
Mean −25.24
Std Dev 15.13
pull1D
Entries 81
Mean −0.00295
Std Dev 1.008

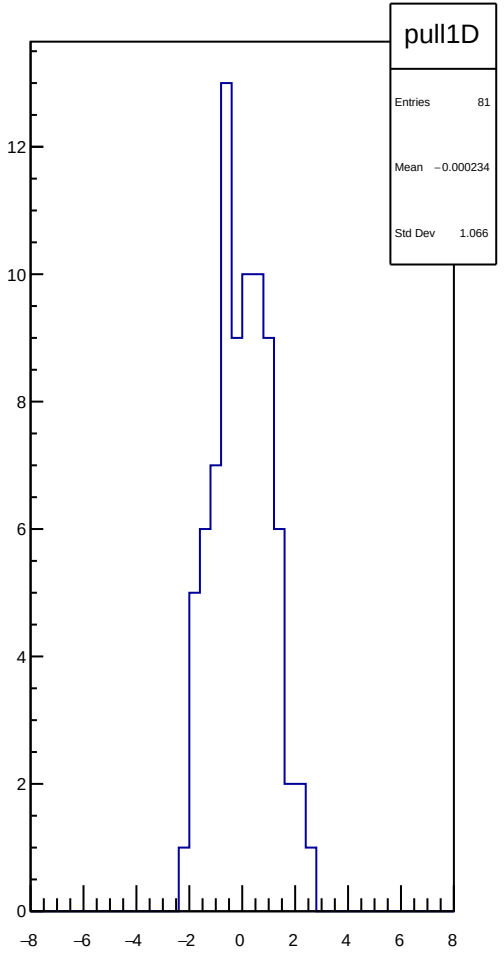

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.345e+05 / 80
p0 48.35 ± 0.04217
120
100
80
60
40
20

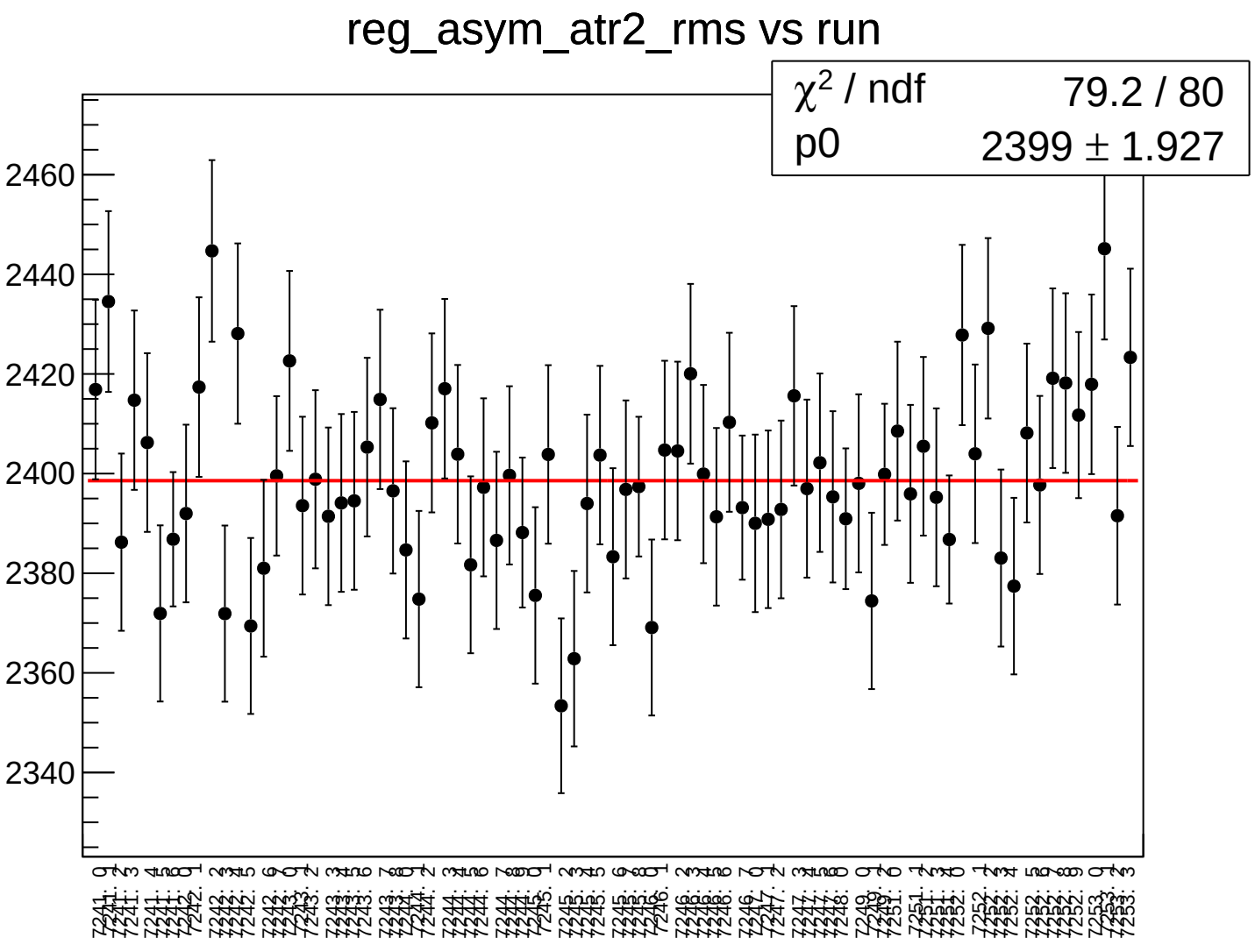

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.88 / 80
p0 2.846e−15 ± 1.093e−14
pull
Entries 81
Mean 15.51
Std Dev 0

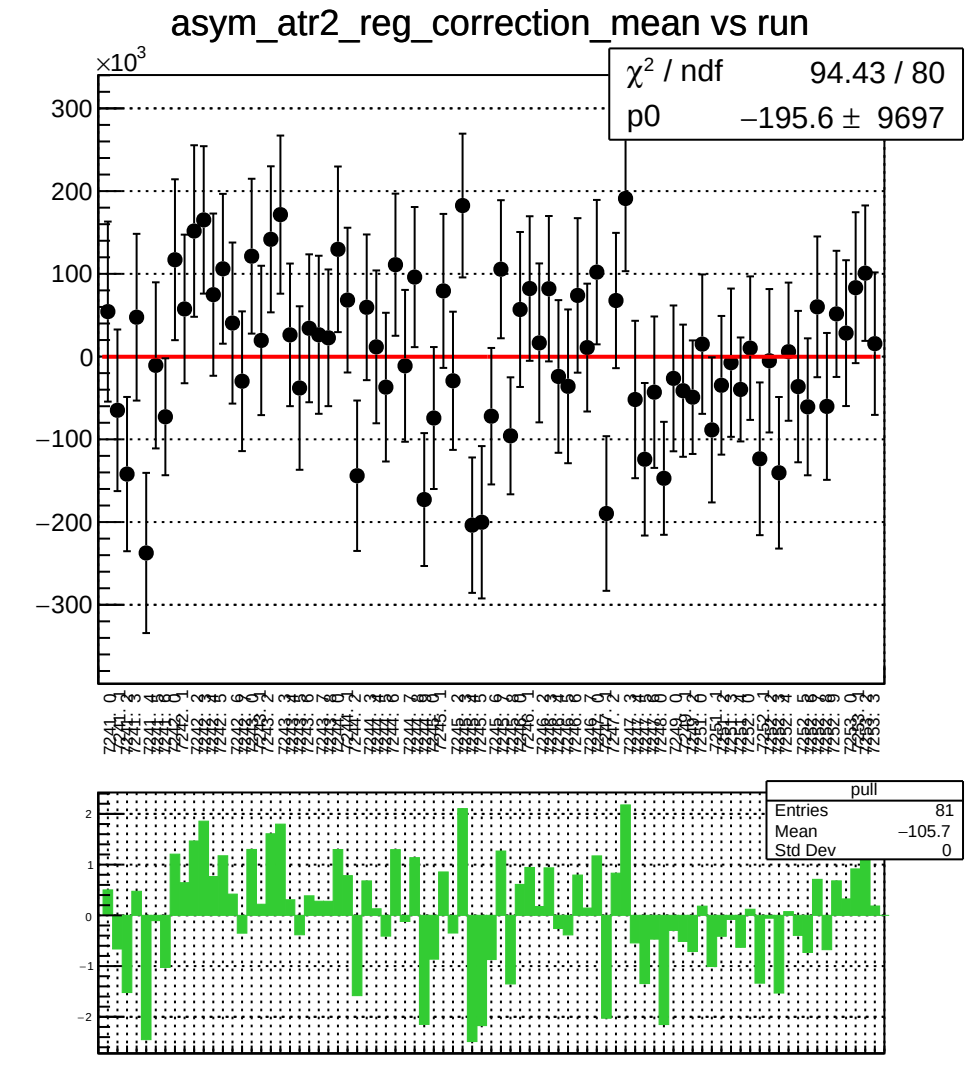

pull1D
Entries 81
Mean 0.02904
Std Dev 1.011

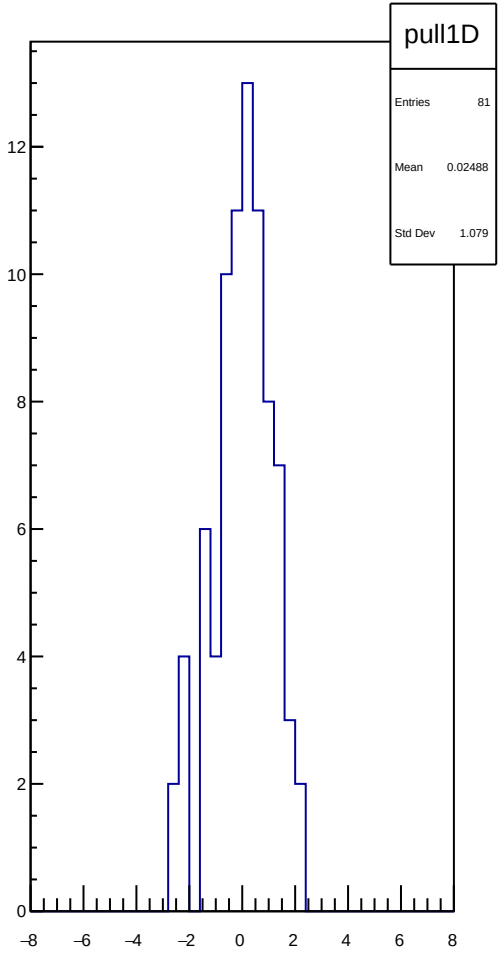

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.514e+05 / 80
p0 7.722e−12 ± 7.731e−15
0.1
0.08
0.06
0.04
0.02

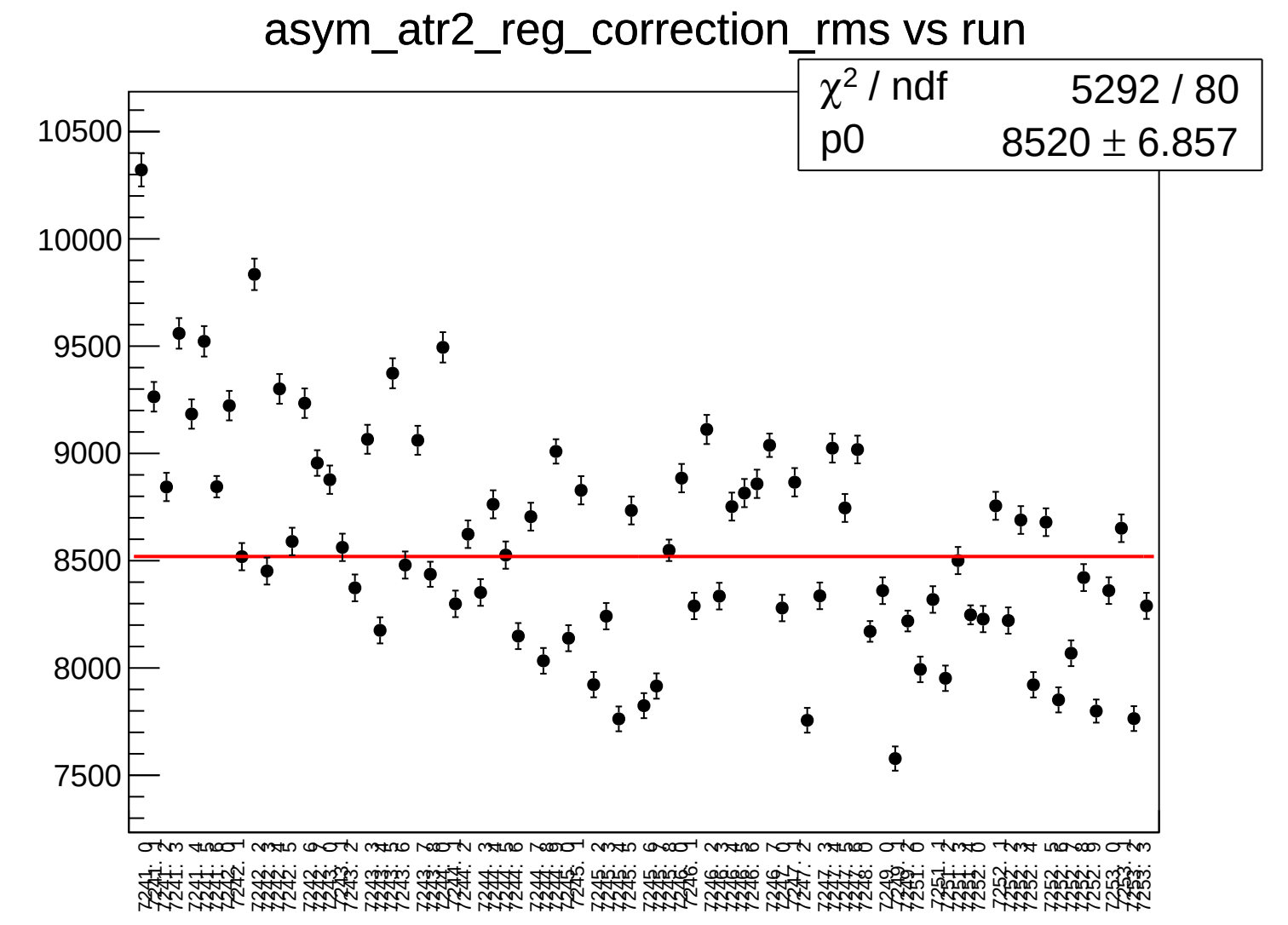

reg_asym_atr2_mean vs run
×10^3
χ² / ndf 92.02 / 80
p0 2137 ± 2725
pull
Entries 81
Mean −5802
Std Dev 0

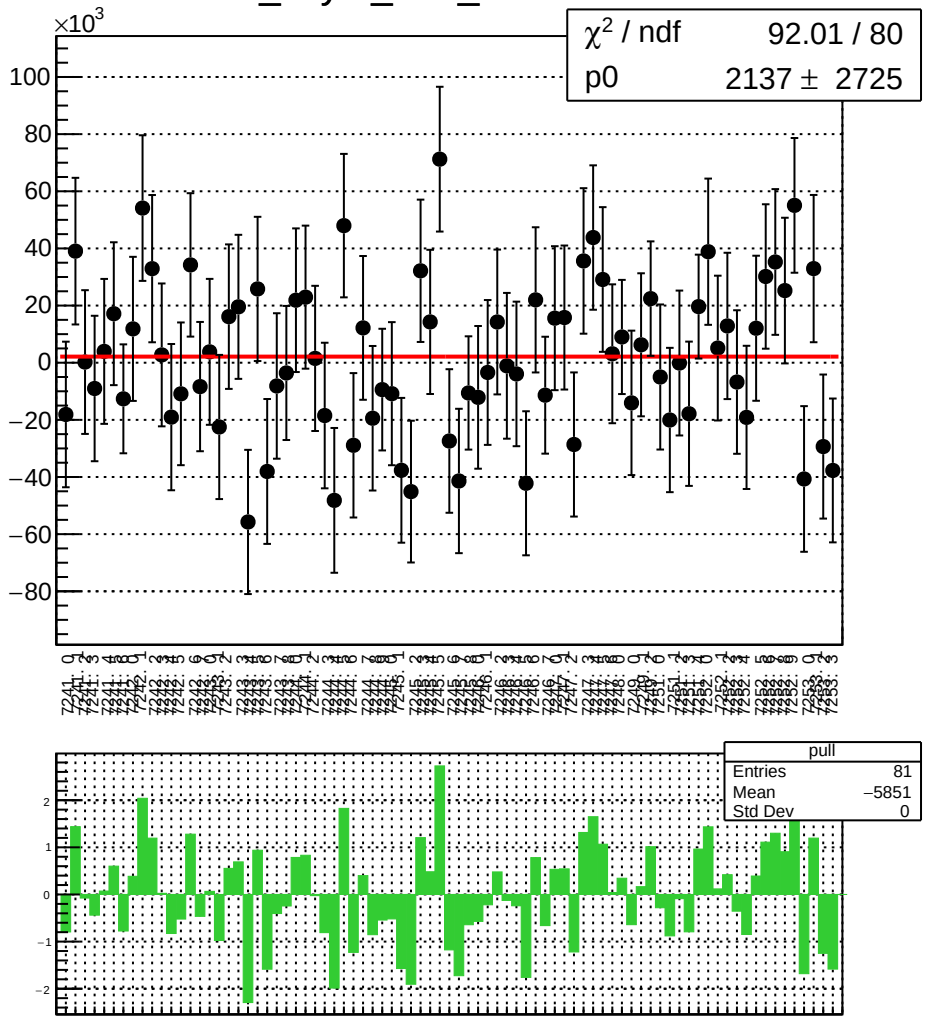

pull1D
Entries 81
Mean −0.000234
Std Dev 1.066

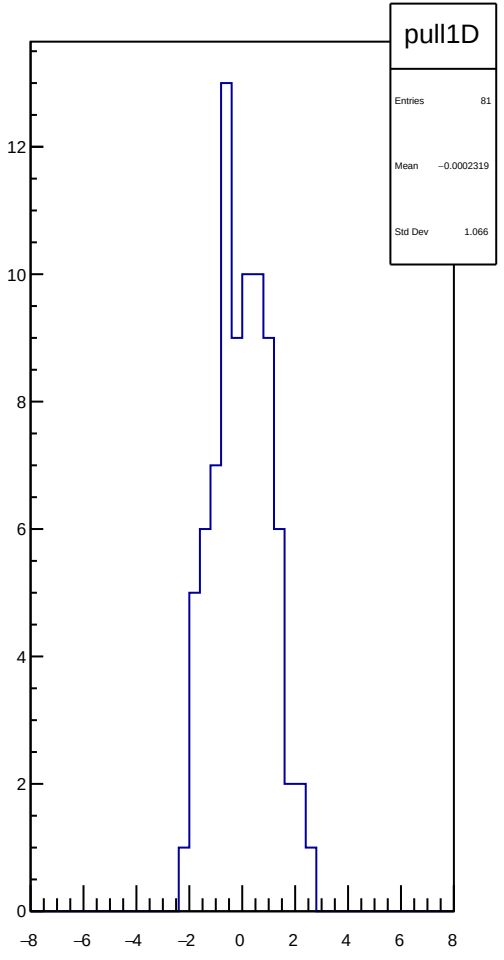

reg_asym_atr2_rms vs run
χ^2 / ndf 79.2 / 80
p0 2399 ± 1.927
2460
2440
2420
2400
2380
2360
2340

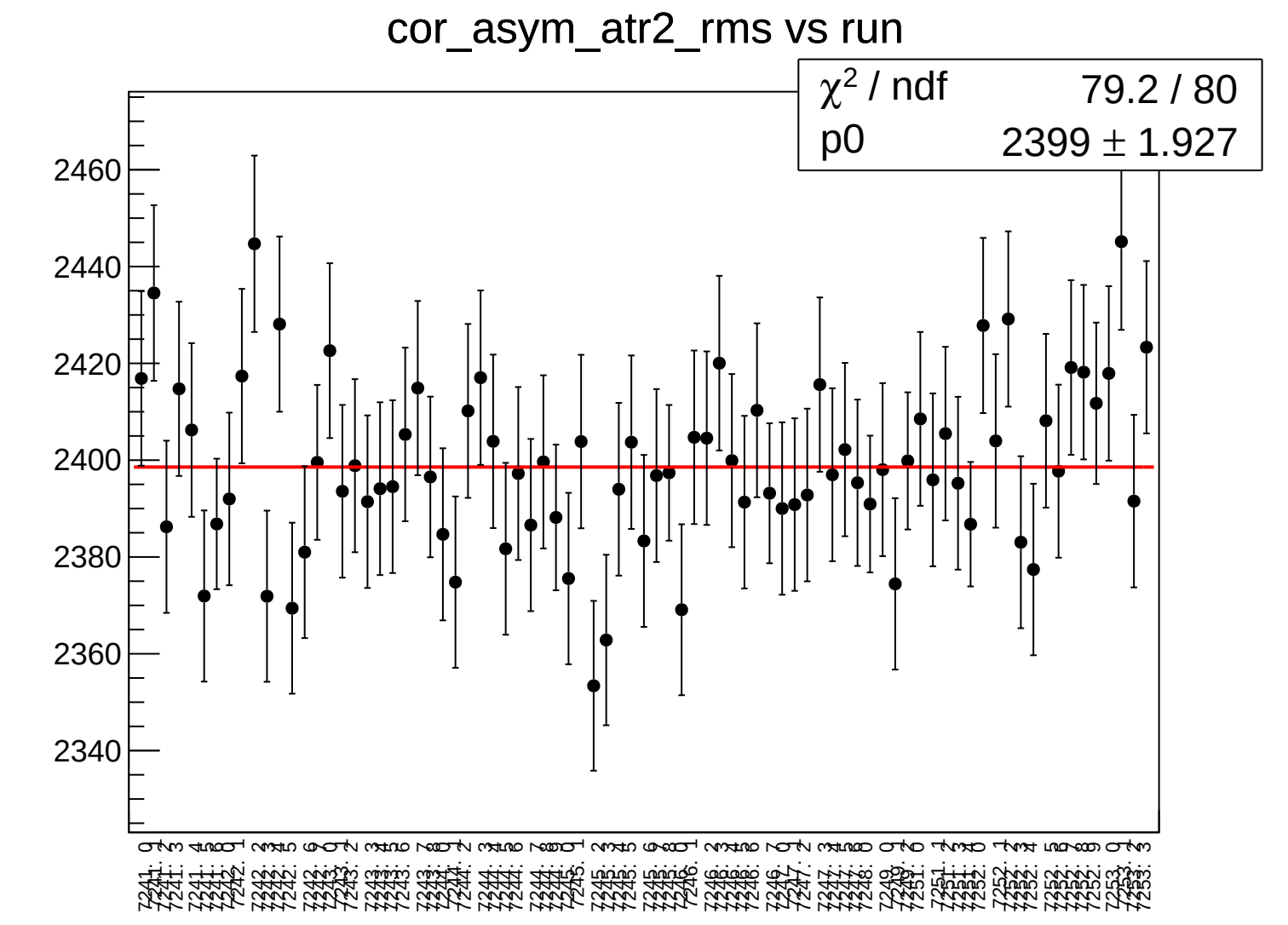

asym_atr2_reg_correction_mean vs run
×10^3
χ² / ndf 94.43 / 80
p0 −195.6 ± 9697
300
200
100
0
−100
−200
−300
pull
Entries 81
Mean −105.7
Std Dev 0
2
1
0
−1
−2

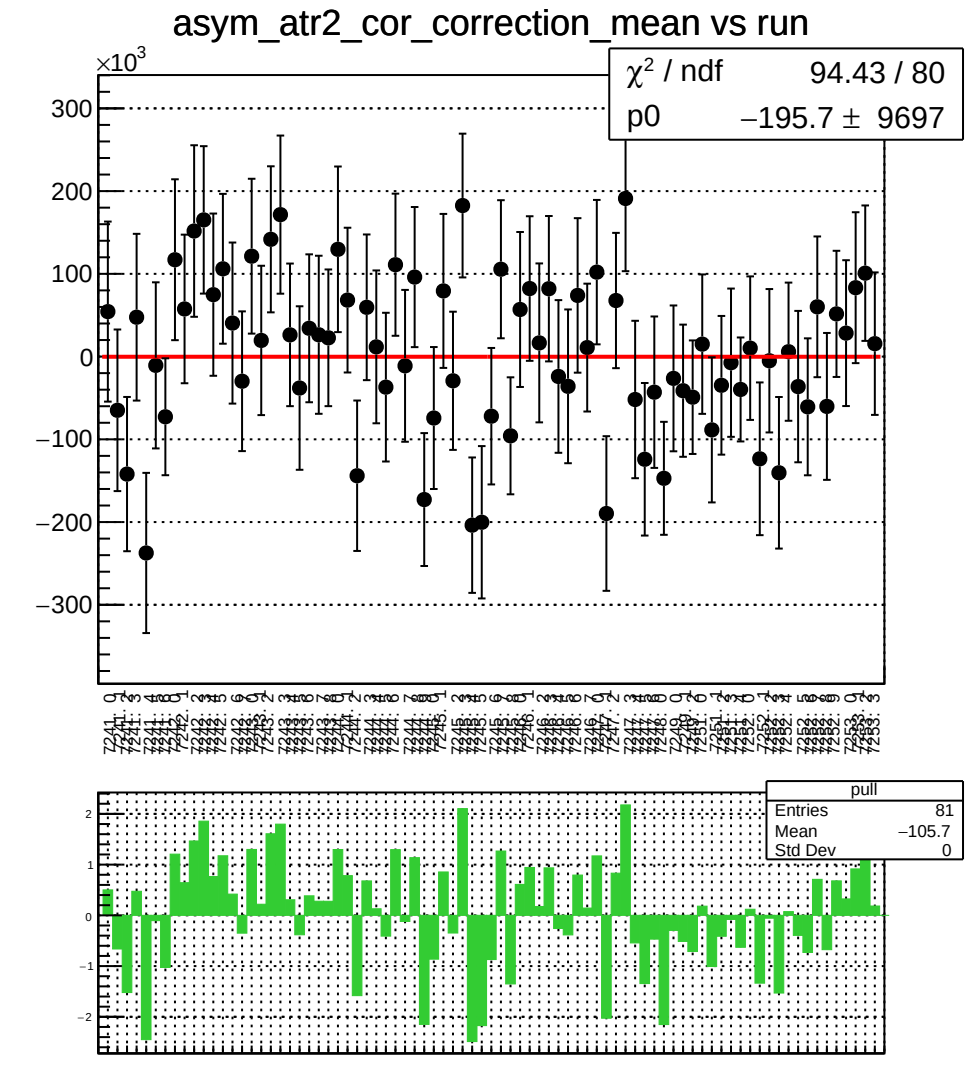

pull1D
Entries 81
Mean 0.02488
Std Dev 1.079
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

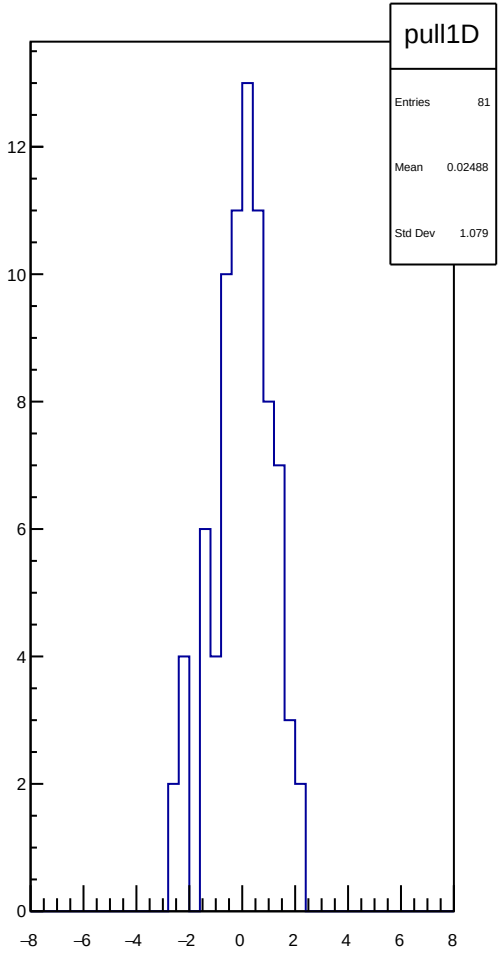

asym_atr2_reg_correction_rms vs run
χ² / ndf 5292 / 80
p0 8520 ± 6.857
10500
10000
9500
9000
8500
8000
7500

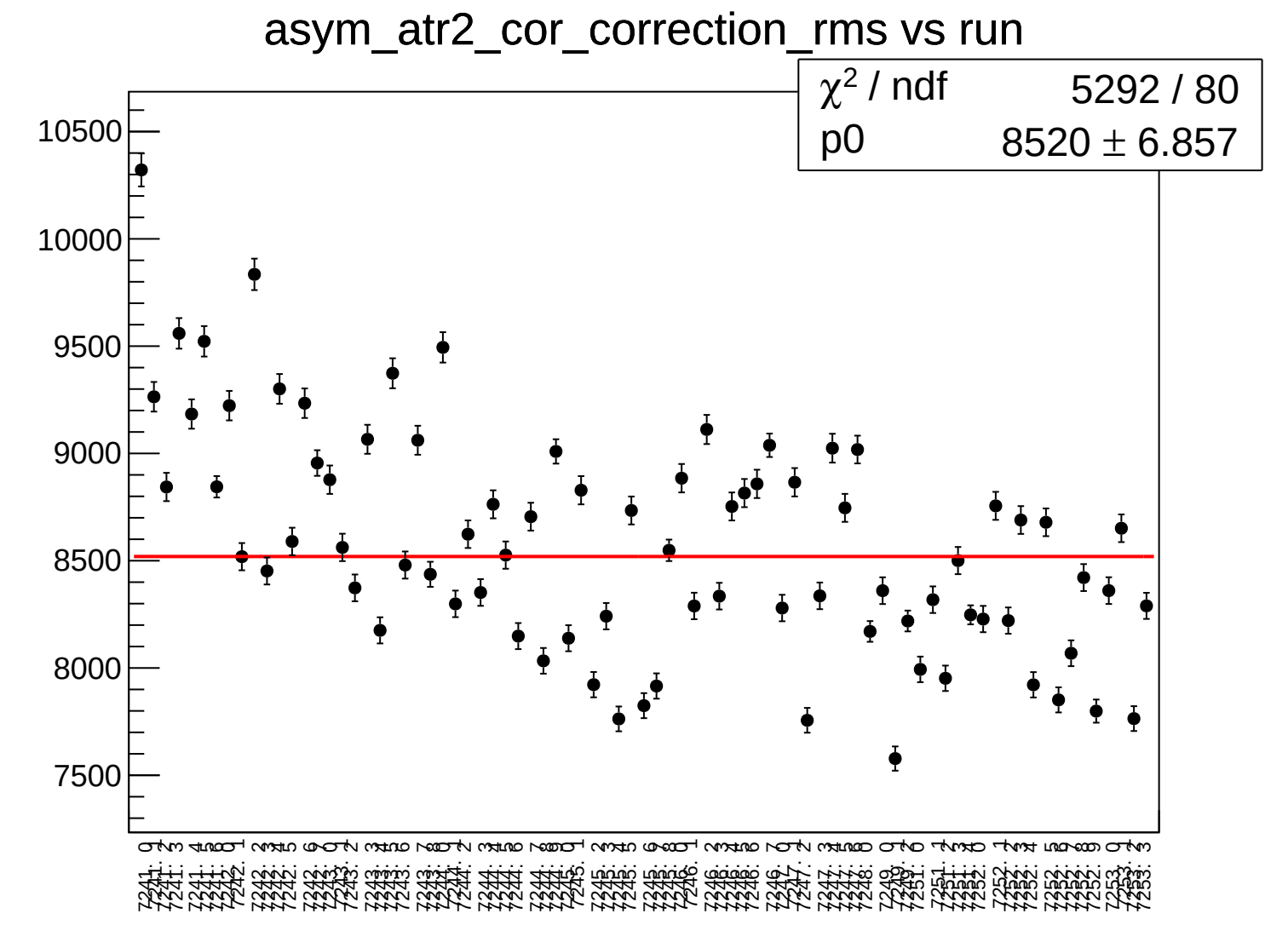

cor_asym_atr2_mean vs run
χ^2 / ndf 92.01 / 80
p0 2137 ± 2725
×10^3
pull
Entries 81
Mean −5851
Std Dev 0

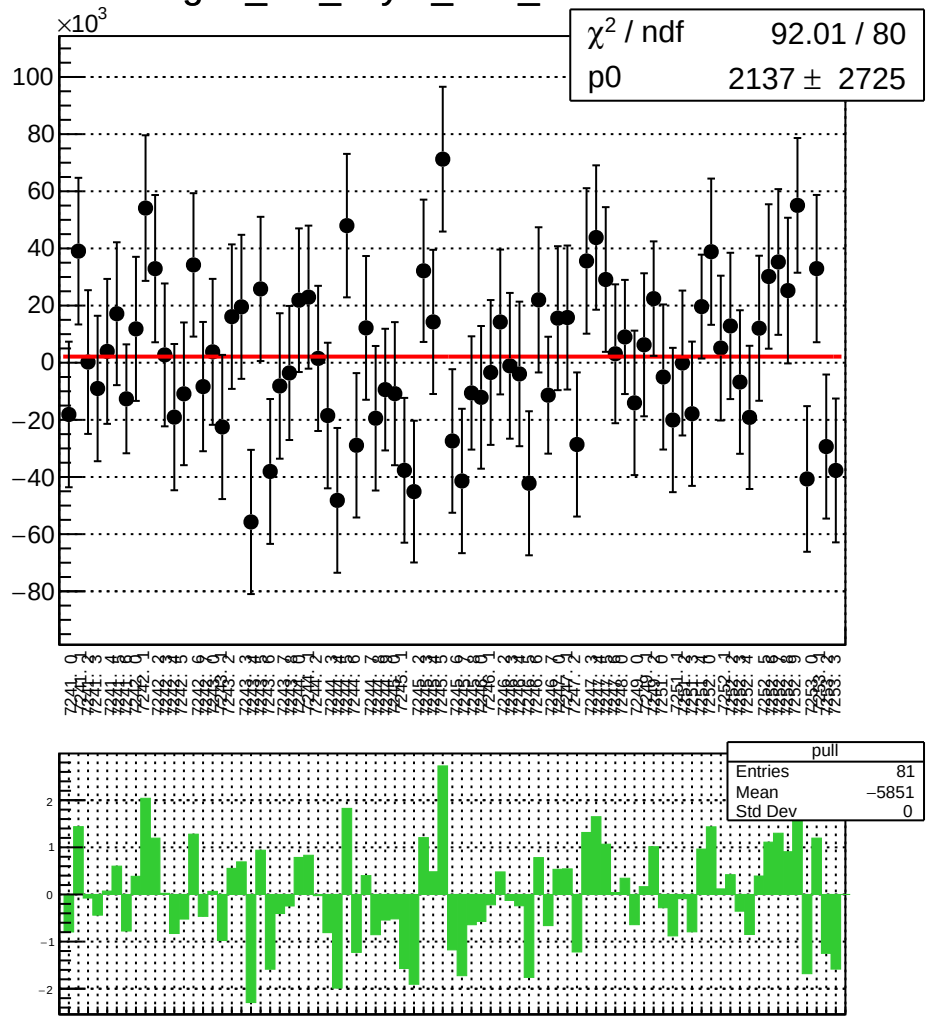

pull1D
Entries 81
Mean −0.0002319
Std Dev 1.066

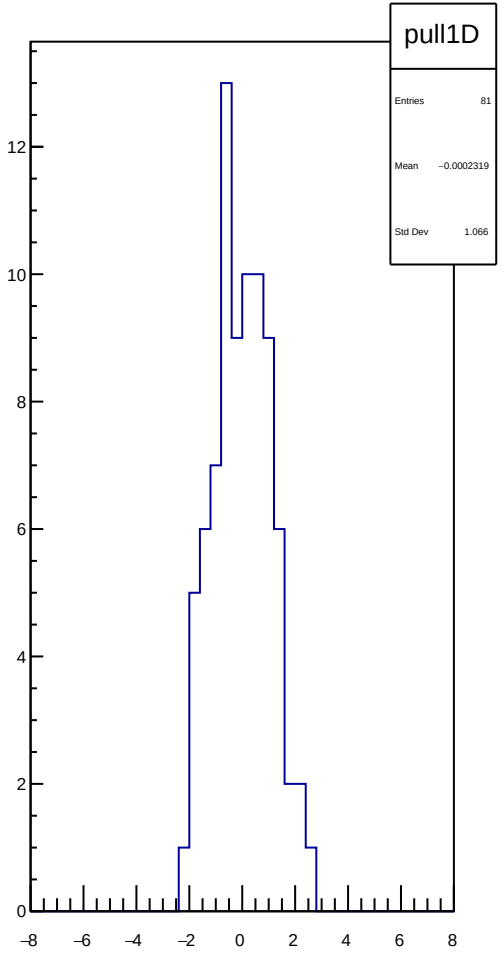

cor_asym_atr2_rms vs run
χ² / ndf 79.2 / 80
p0 2399 ± 1.927
2460
2440
2420
2400
2380
2360
2340

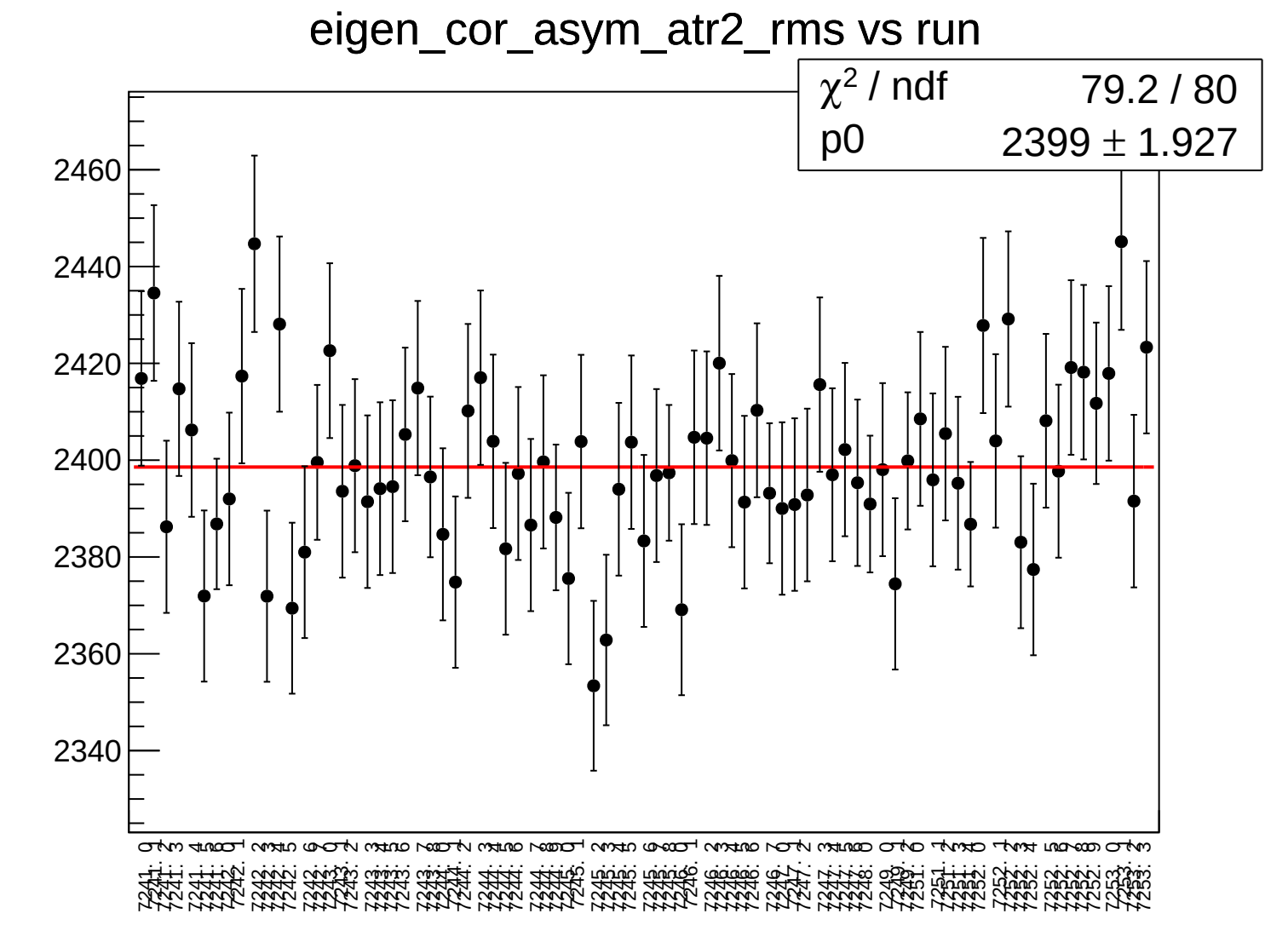

asym_atr2_cor_correction_mean vs run
χ² / ndf 94.43 / 80
p0 −195.7 ± 9697
×10³
pull
Entries 81
Mean −105.7
Std Dev 0

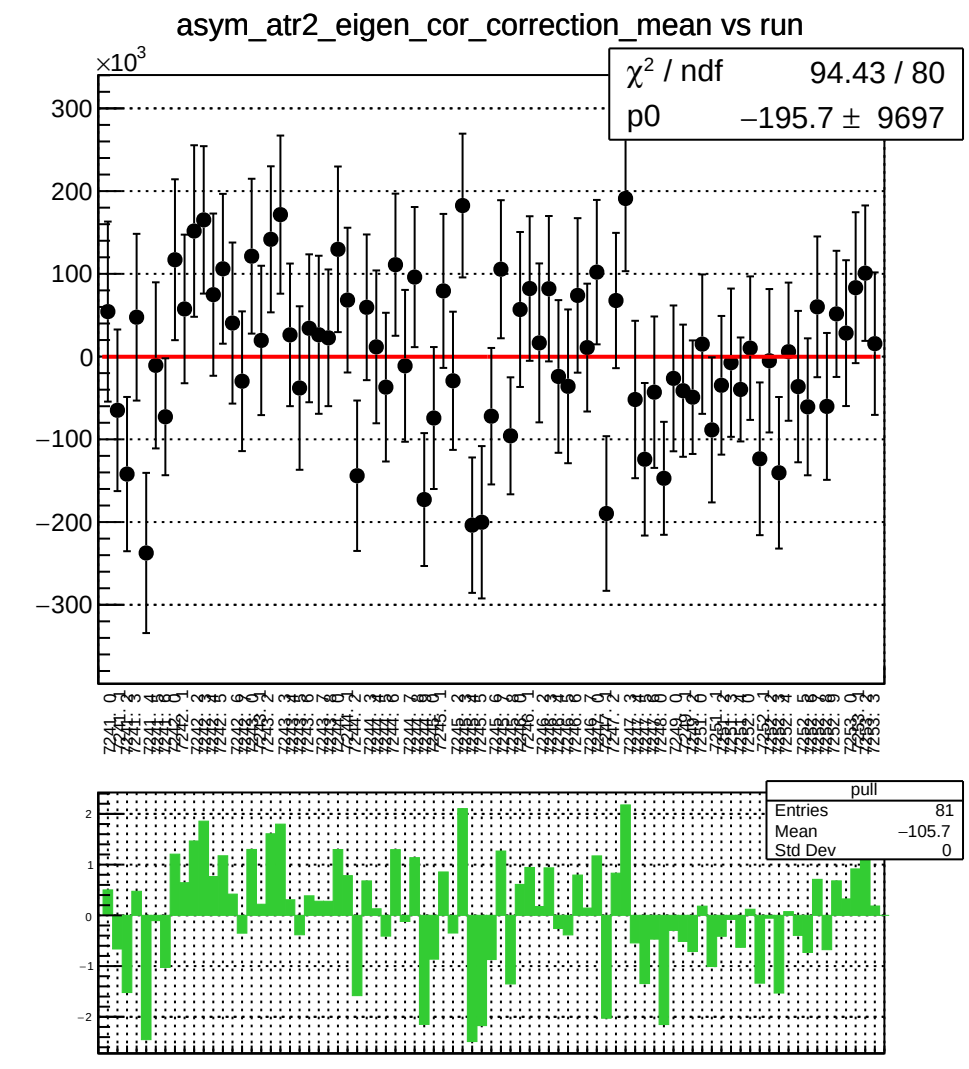

pull1D
Entries 81
Mean 0.02488
Std Dev 1.079

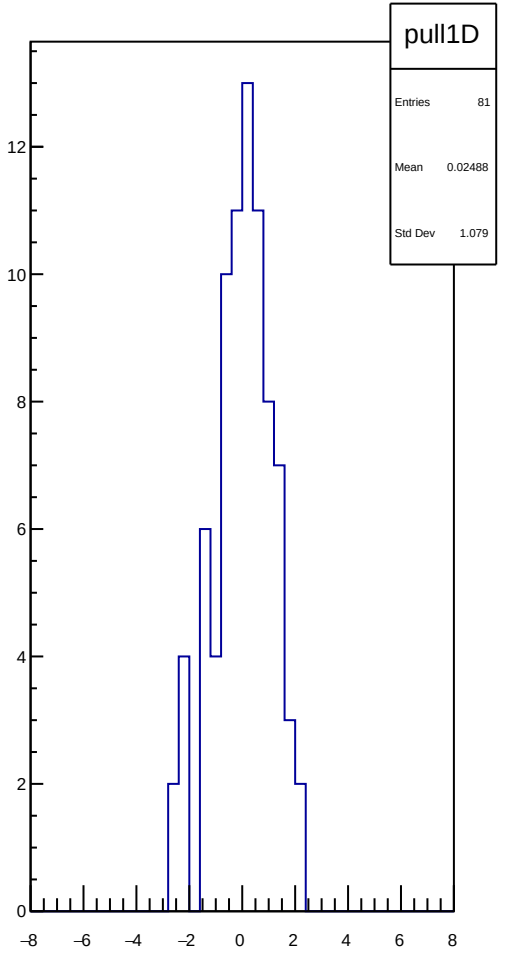

asym_atr2_cor_correction_rms vs run
χ² / ndf 5292 / 80
p0 8520 ± 6.857
10500
10000
9500
9000
8500
8000
7500

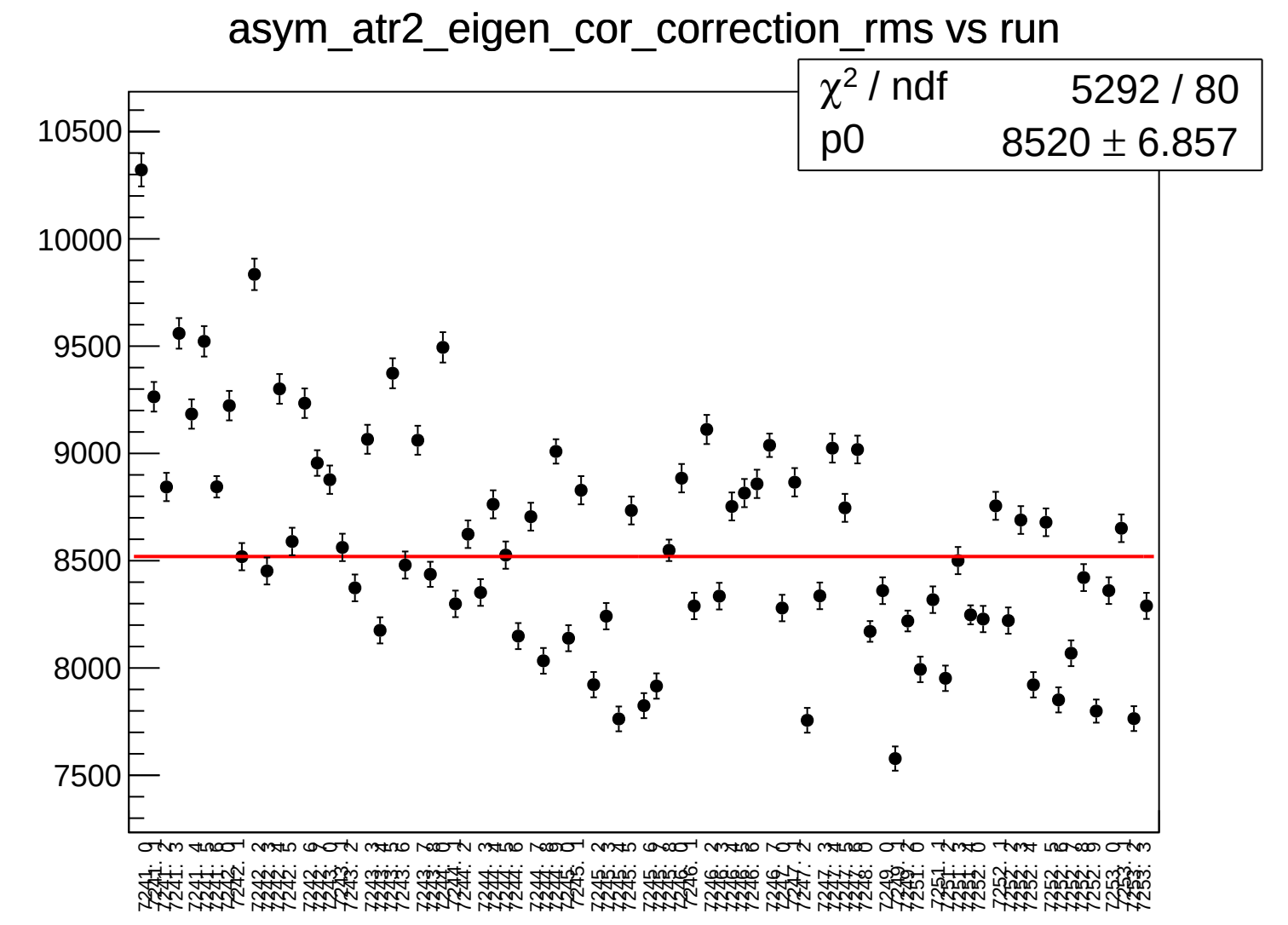

eigen_cor_asym_atr2_mean vs run
×10^3
χ² / ndf 92.01 / 80
p0 2137 ± 2725
pull
Entries 81
Mean −5851
Std Dev 0

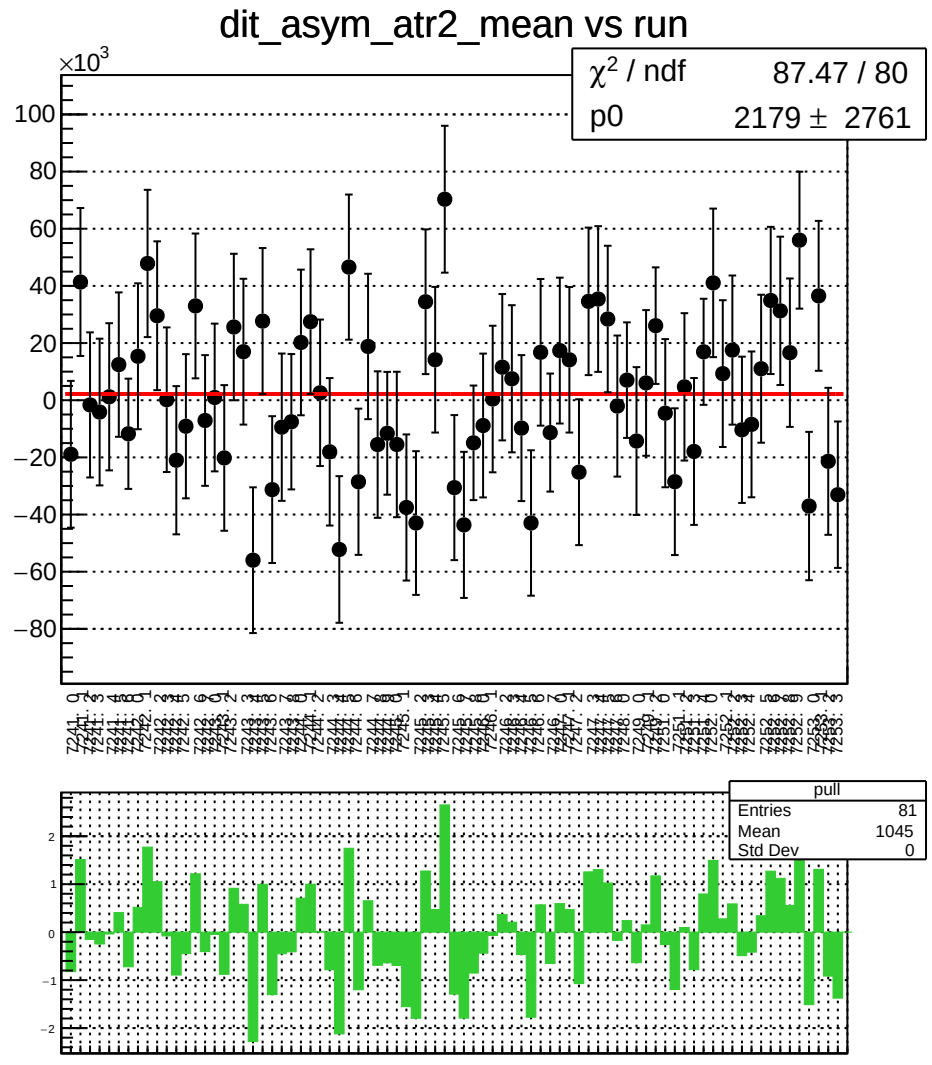

pull1D
Entries 81
Mean −0.0002319
Std Dev 1.066

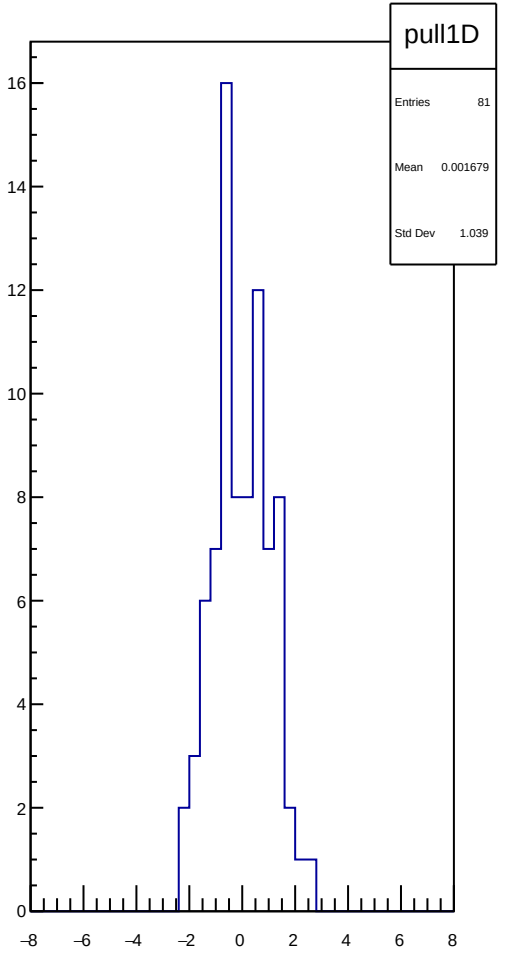

eigen_cor_asym_atr2_rms vs run
χ² / ndf 79.2 / 80
p0 2399 ± 1.927
2460
2440
2420
2400
2380
2360
2340

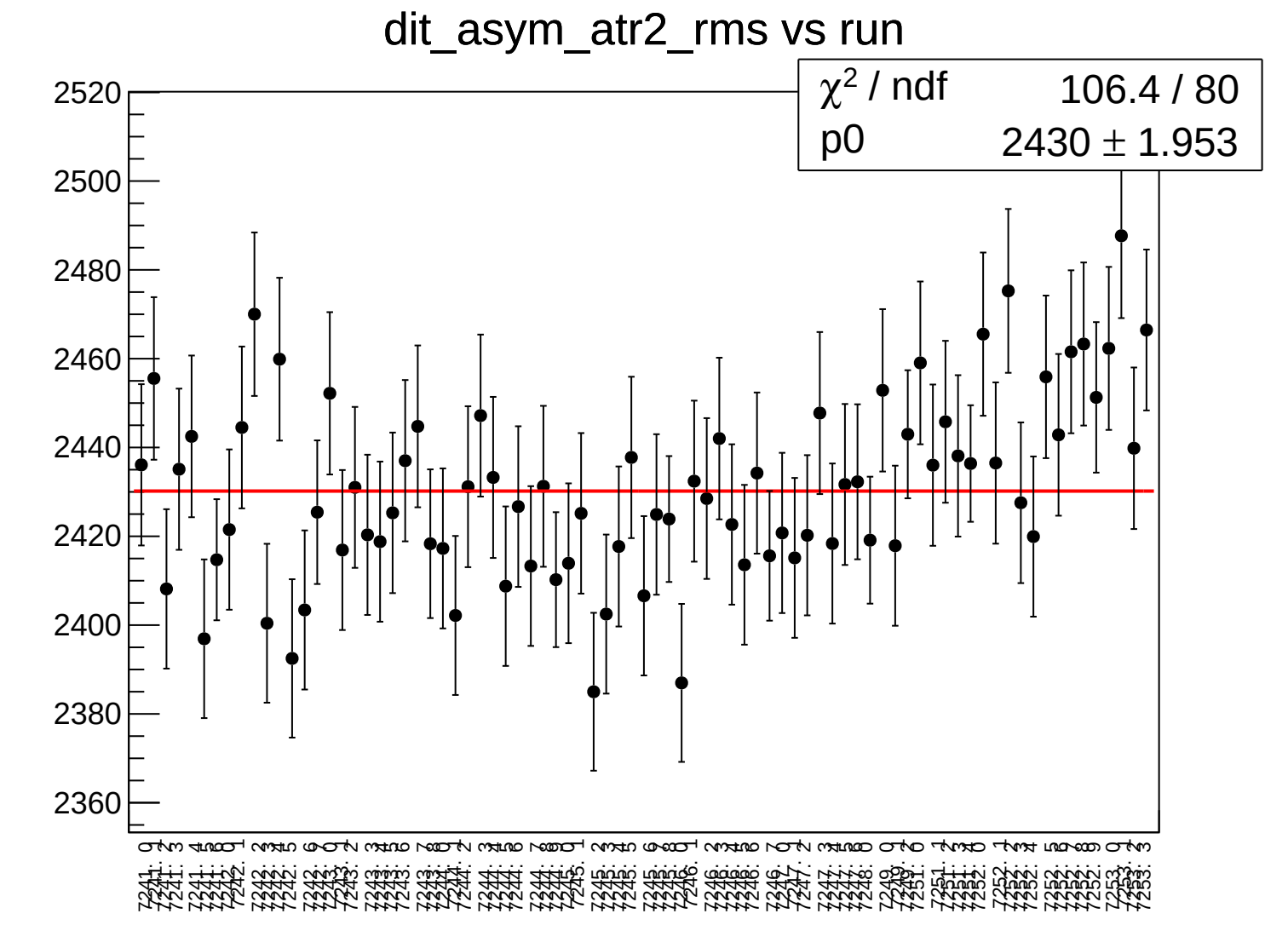

asym_atr2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 94.43 / 80
p0 −195.7 ± 9697
300
200
100
0
−100
−200
−300
pull
Entries 81
Mean −105.7
Std Dev 0
2
1
0
−1
−2

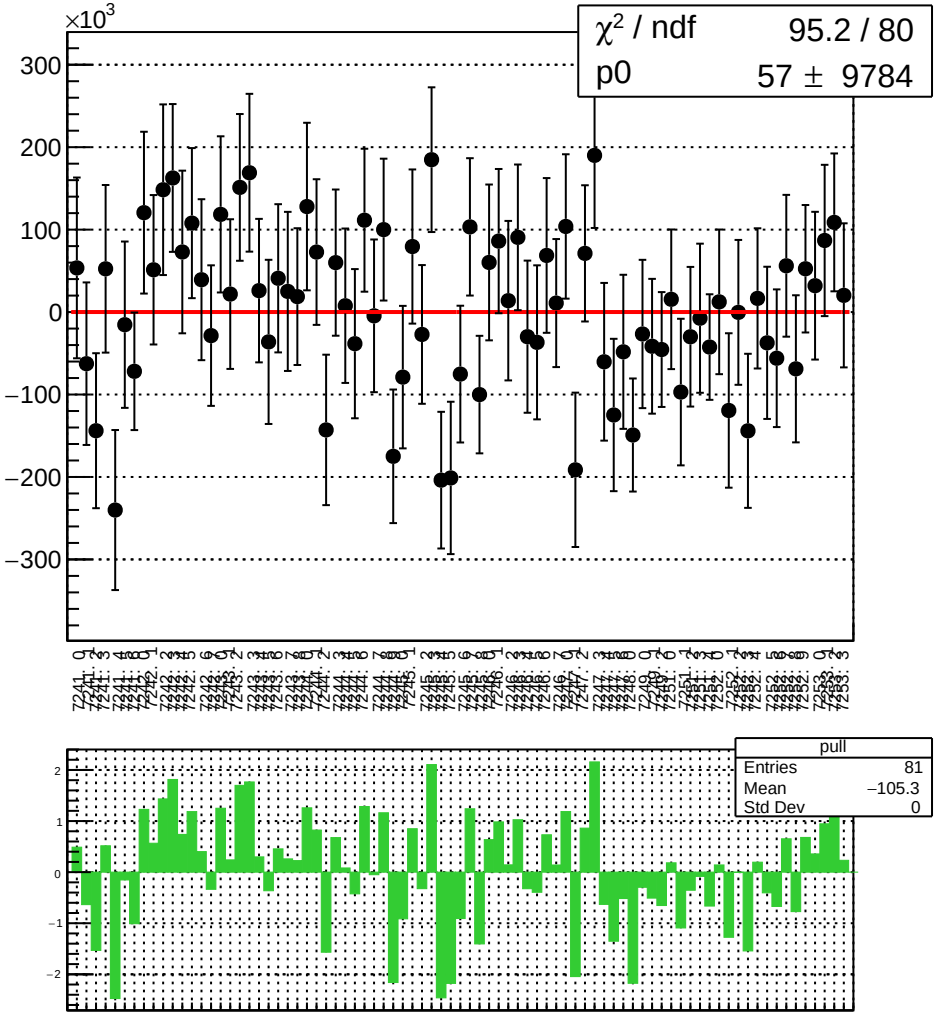

pull1D
Entries 81
Mean 0.02488
Std Dev 1.079
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

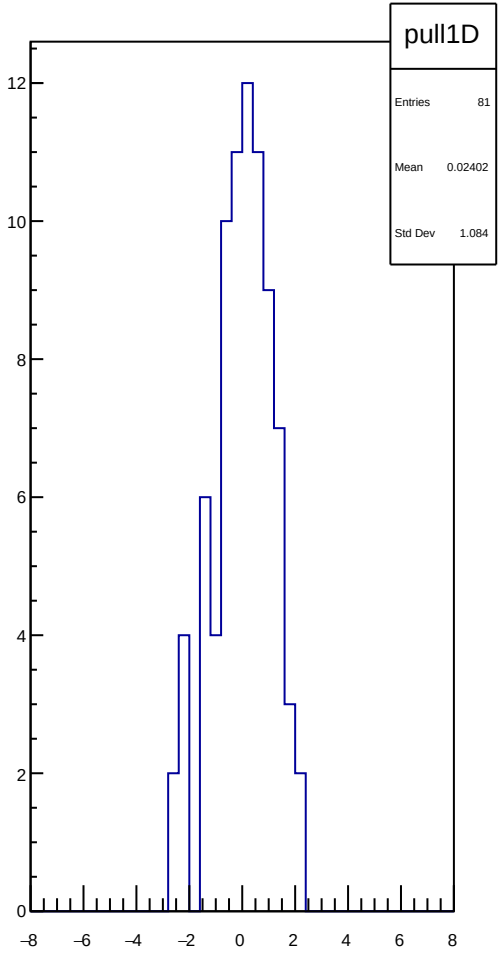

asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 5292 / 80
p0 8520 ± 6.857
10500
10000
9500
9000
8500
8000
7500

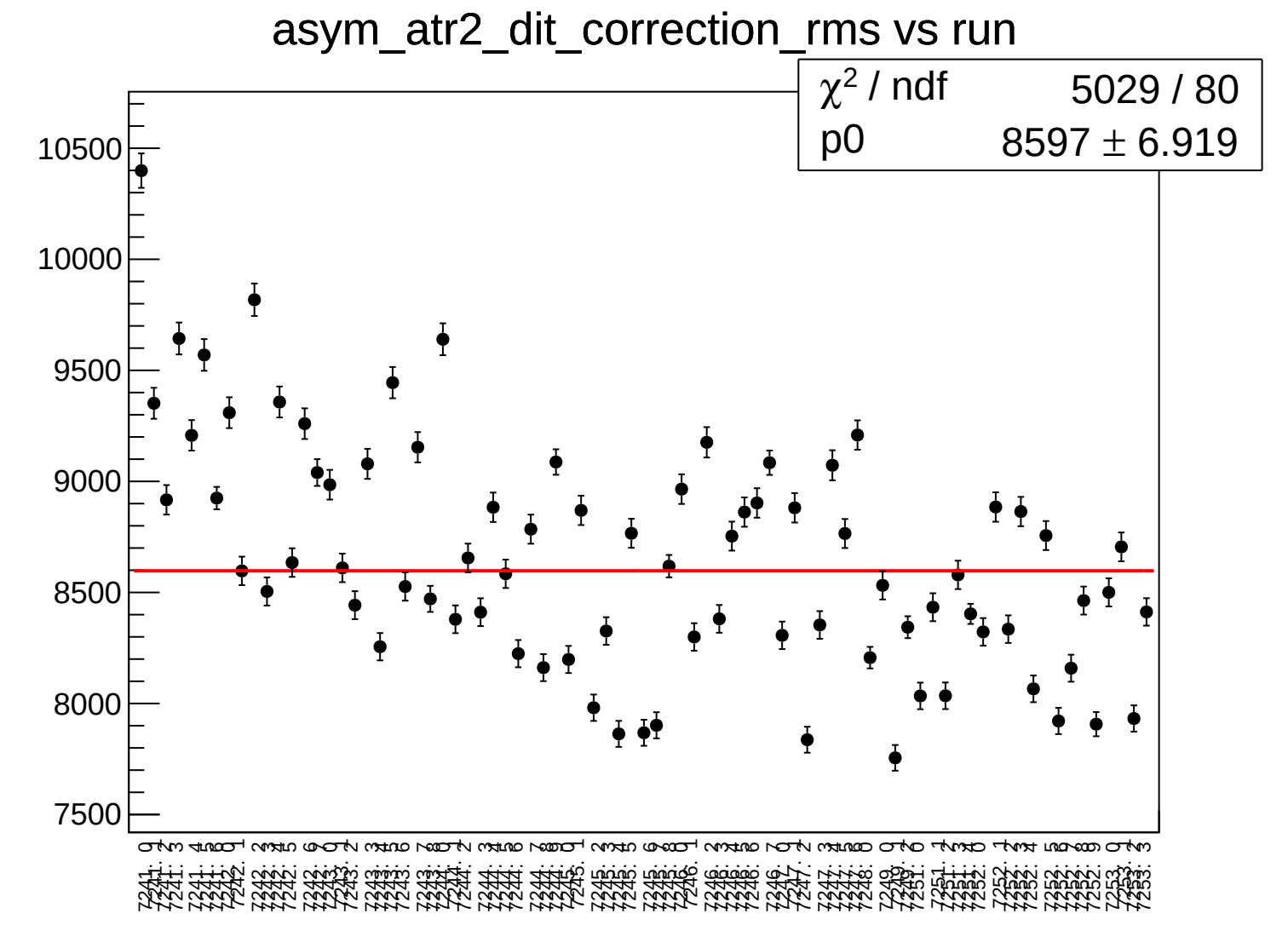

dit_asym_atr2_mean vs run
χ^2 / ndf 87.47 / 80
p0 2179 ± 2761
×10^3
pull
Entries 81
Mean 1045
Std Dev 0

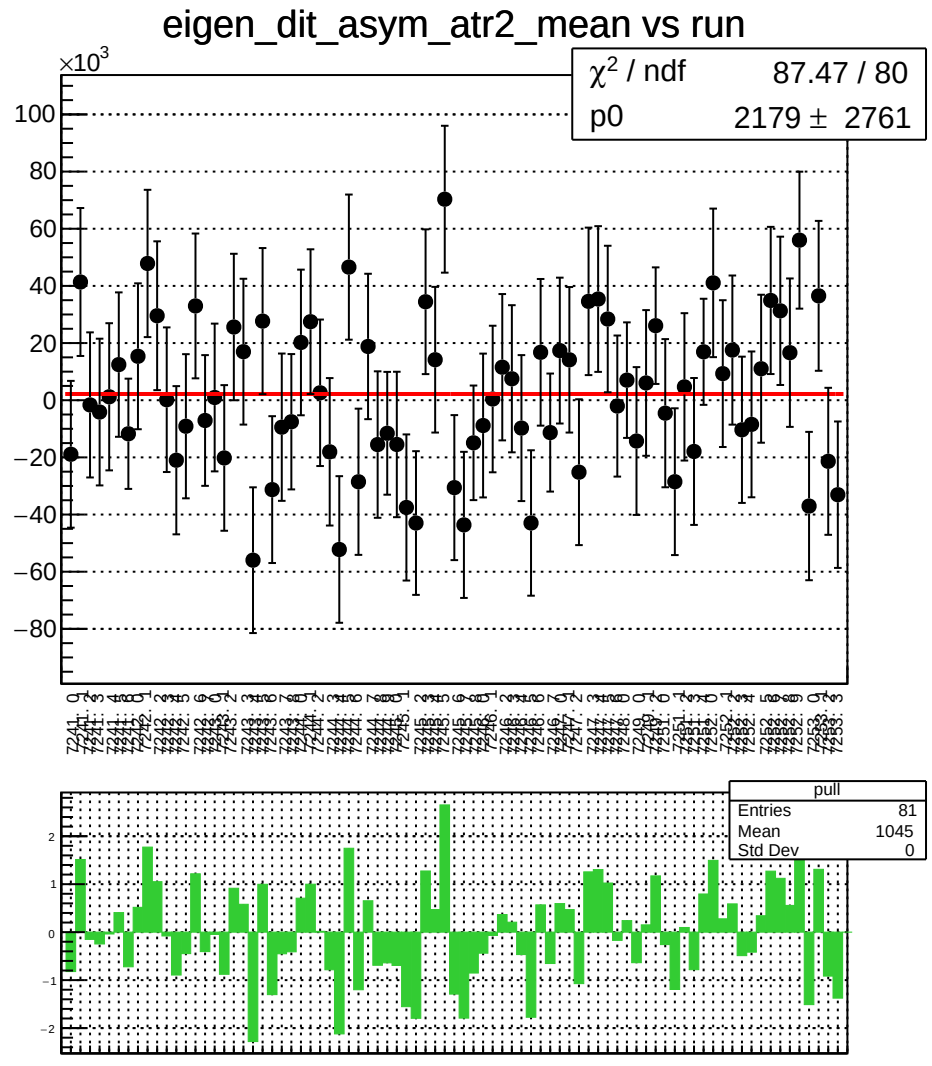

pull1D
Entries 81
Mean 0.001679
Std Dev 1.039

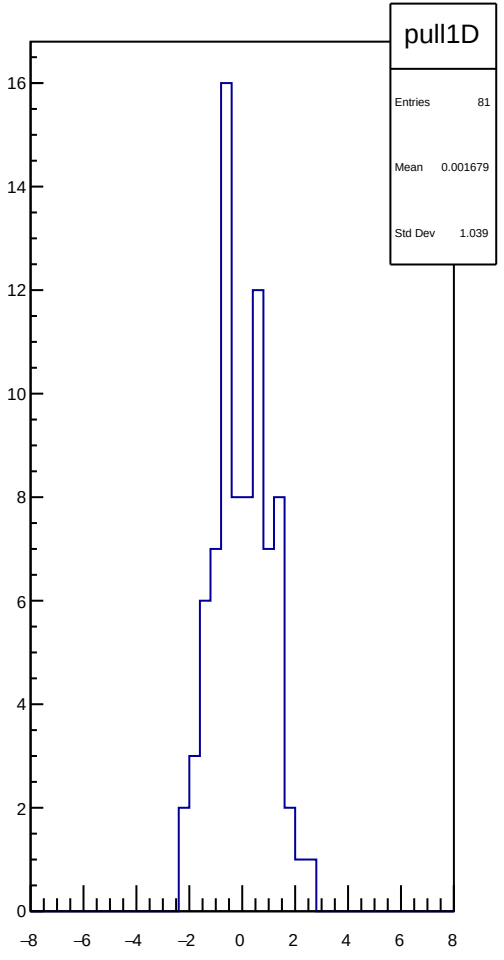

dit_asym_atr2_rms vs run
χ^2 / ndf 106.4 / 80
p0 2430 ± 1.953
2520
2500
2480
2460
2440
2420
2400
2380
2360

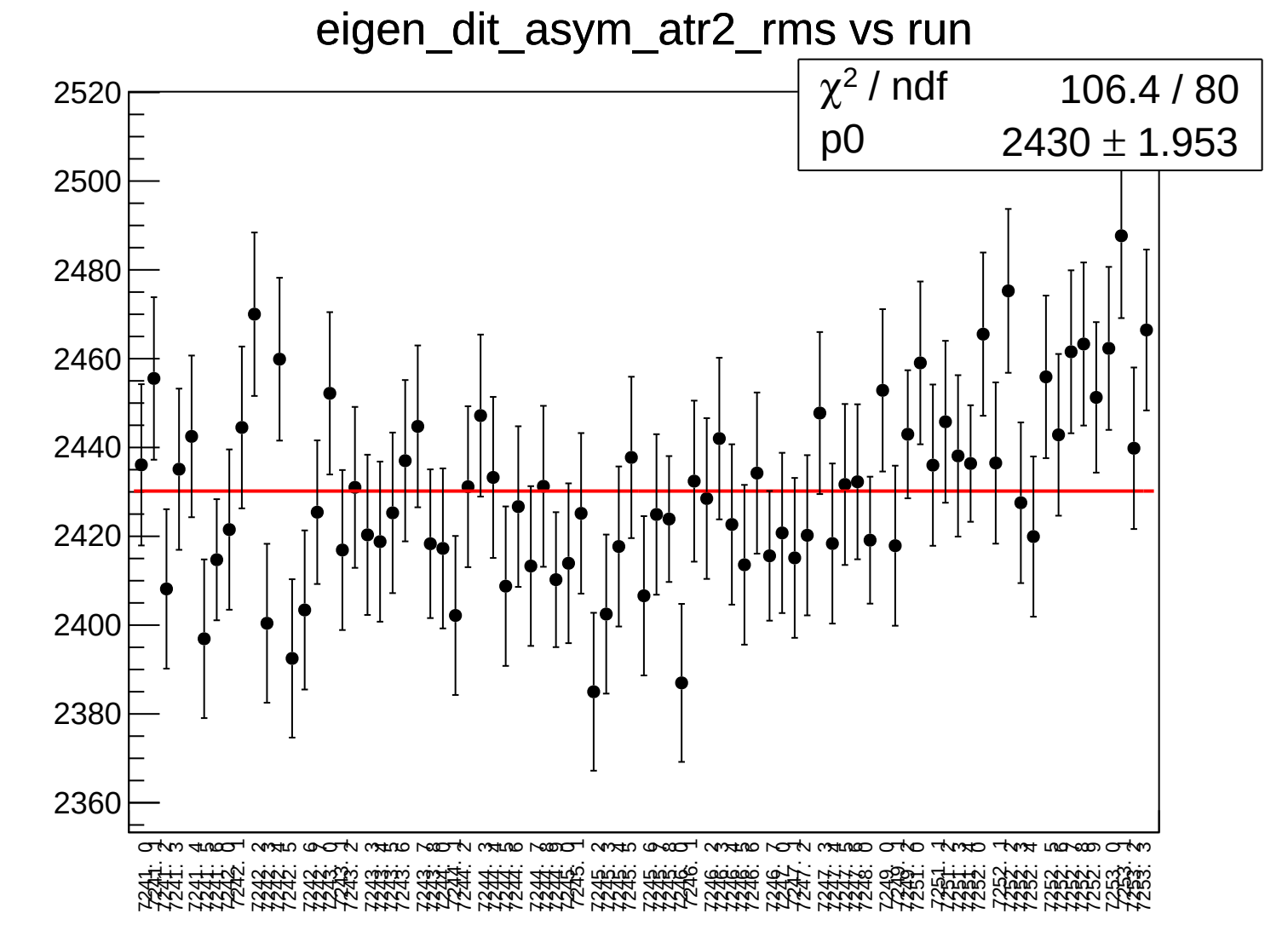

asym_atr2_dit_correction_mean vs run
χ² / ndf 95.2 / 80
p0 57 ± 9784
pull
Entries 81
Mean −105.3
Std Dev 0

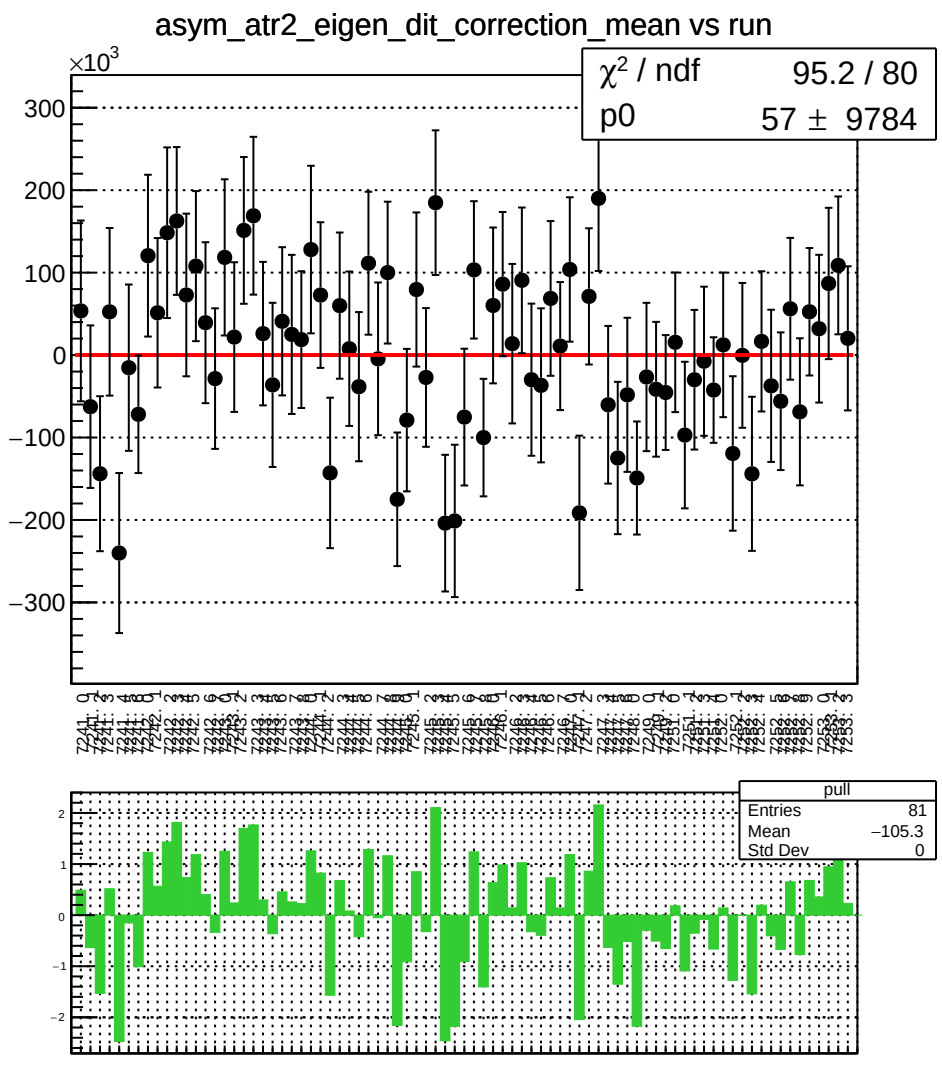

pull1D
Entries 81
Mean 0.02402
Std Dev 1.084

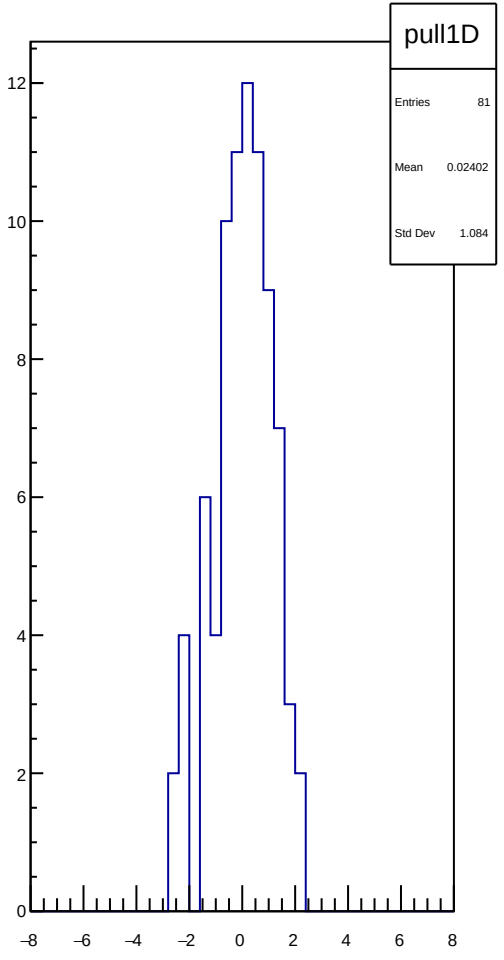

asym_atr2_dit_correction_rms vs run
χ² / ndf 5029 / 80
p0 8597 ± 6.919
10500
10000
9500
9000
8500
8000
7500

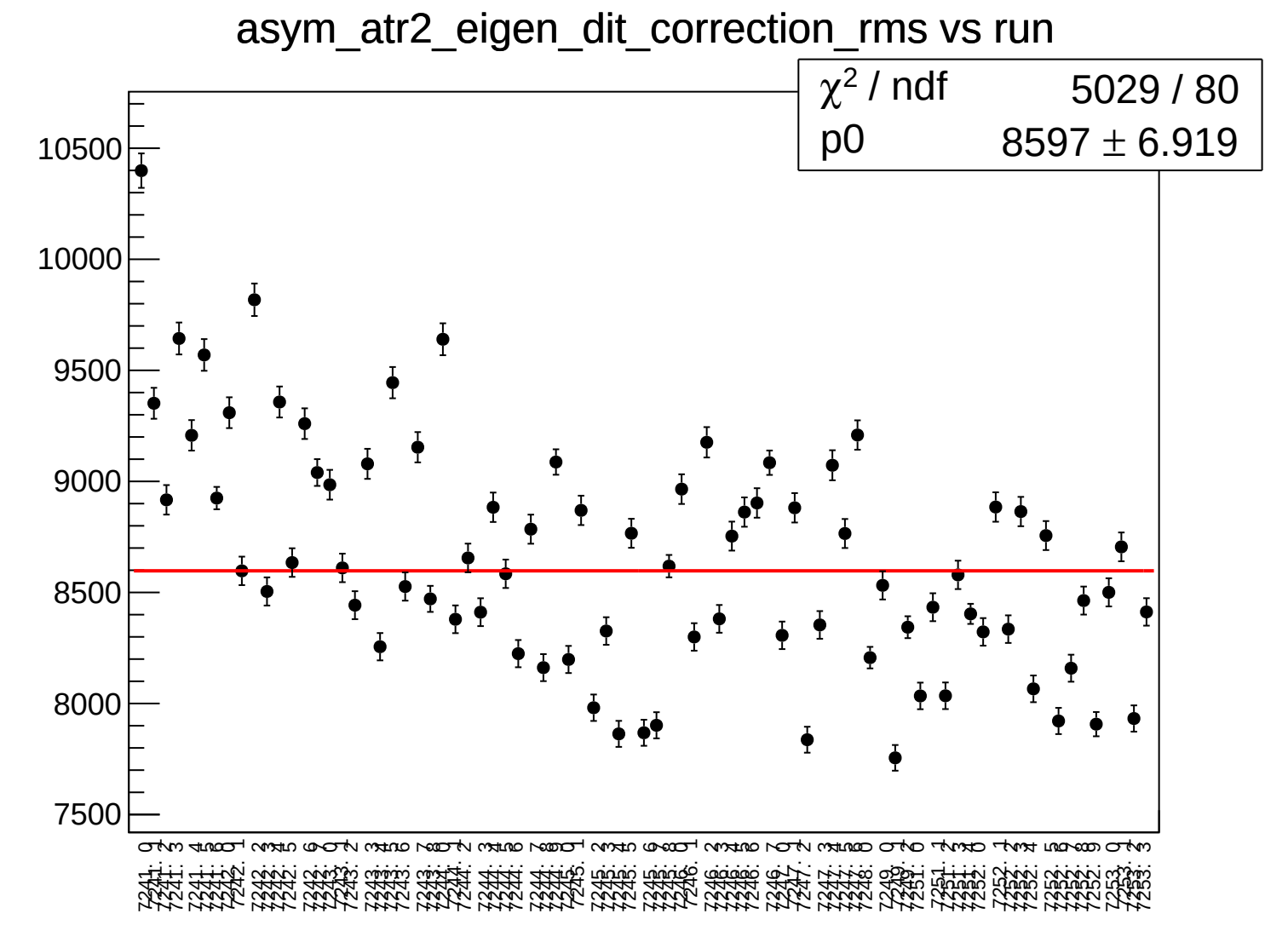

eigen_dit_asym_atr2_mean vs run
×10^3
χ² / ndf 87.47 / 80
p0 2179 ± 2761
pull
Entries 81
Mean 1045
Std Dev 0

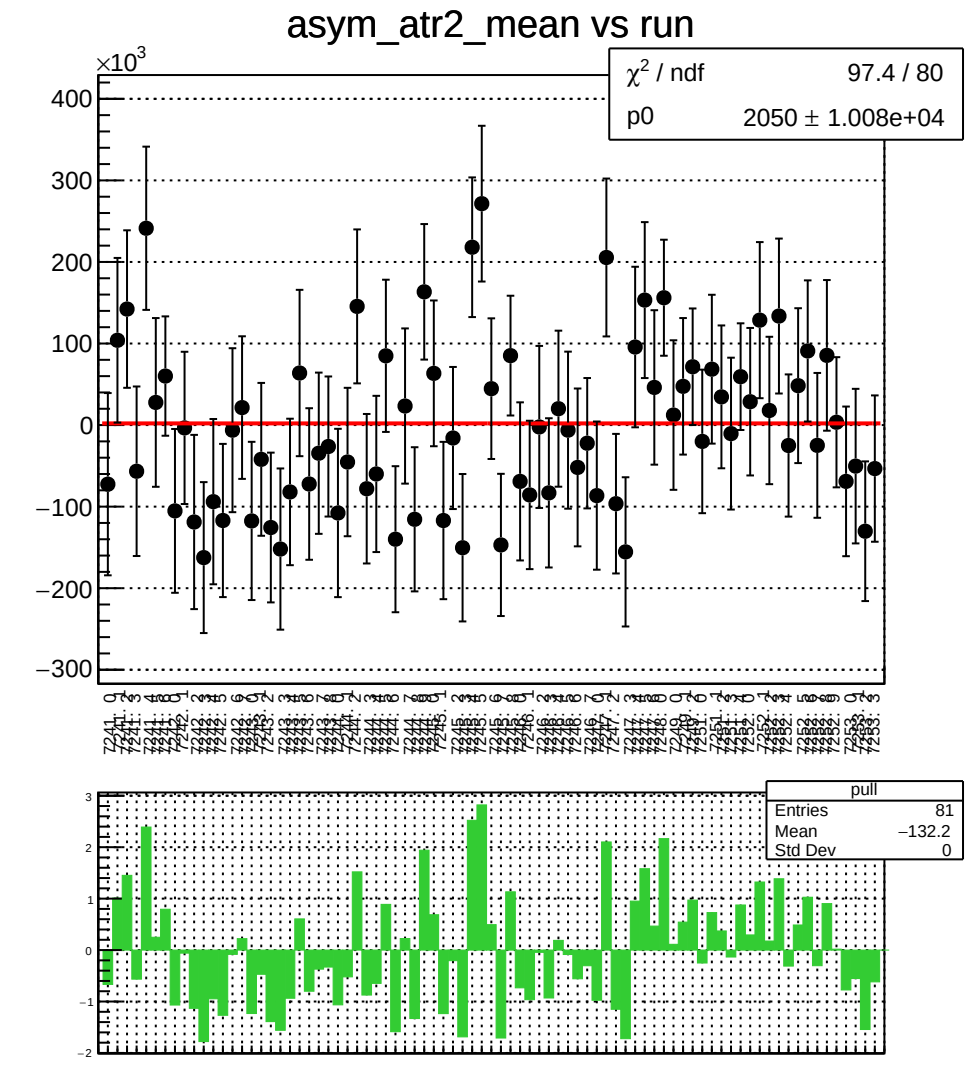

pull1D
Entries 81
Mean 0.001679
Std Dev 1.039

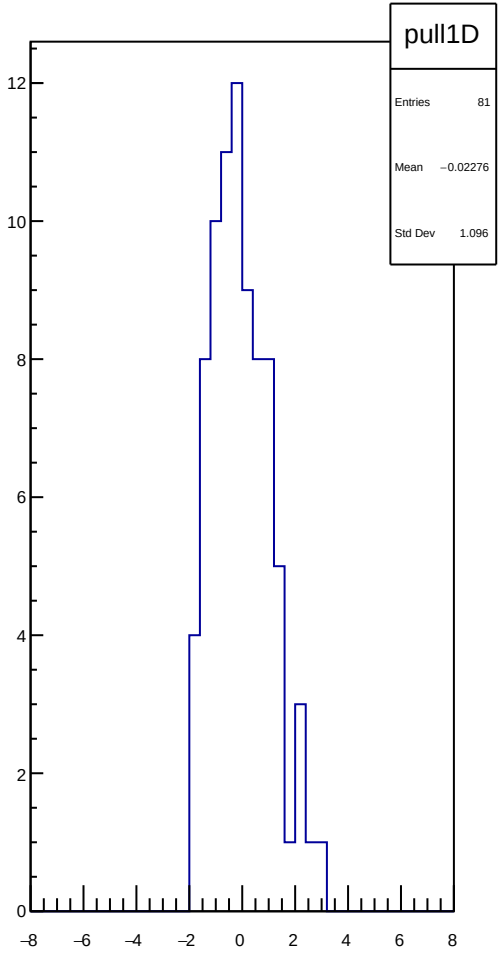

eigen_dit_asym_atr2_rms vs run
χ² / ndf 106.4 / 80
p0 2430 ± 1.953
2520
2500
2480
2460
2440
2420
2400
2380
2360

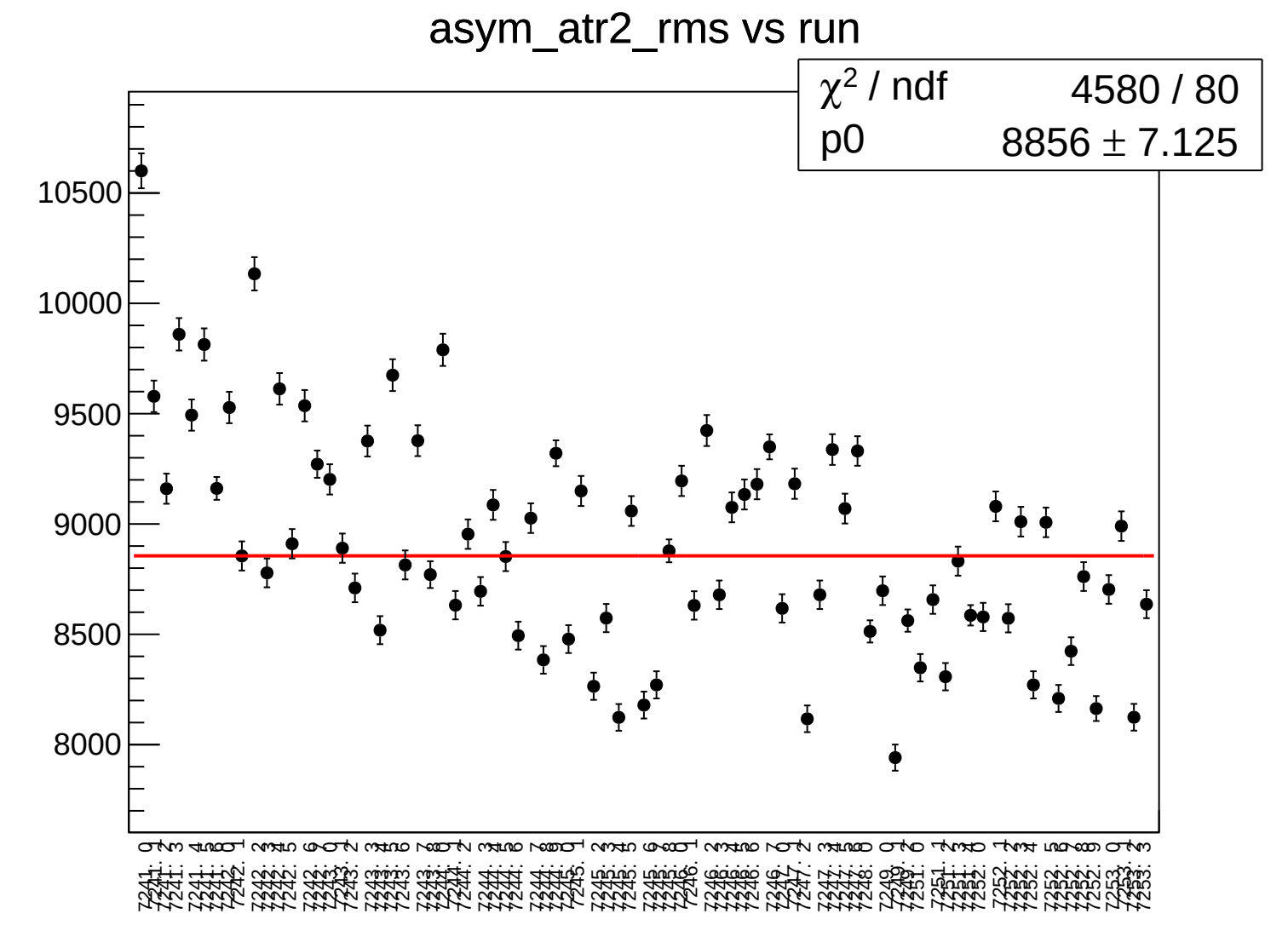

asym_atr2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 95.2 / 80
p0 57 ± 9784
pull
Entries 81
Mean −105.3
Std Dev 0

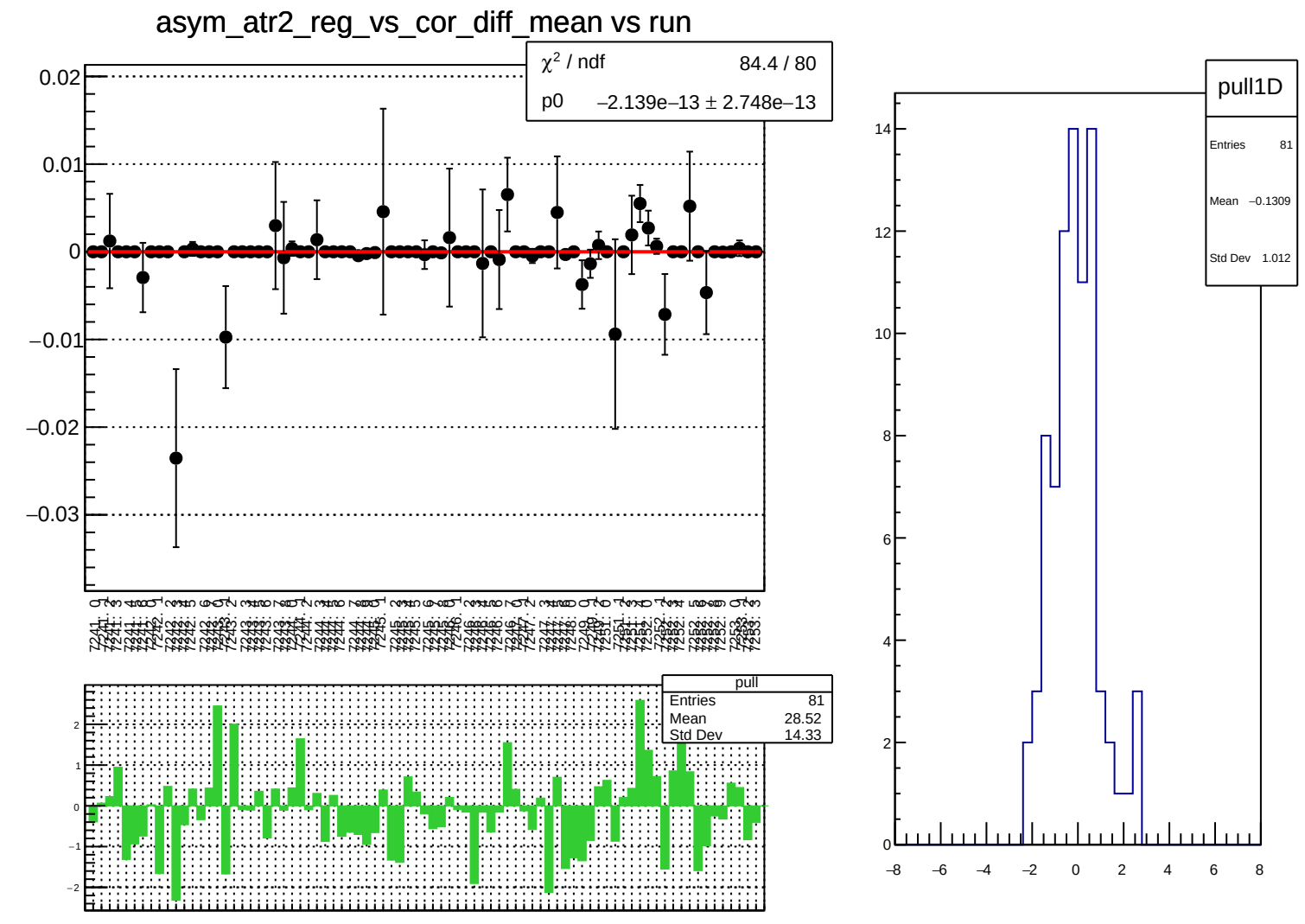

pull1D
Entries 81
Mean 0.02402
Std Dev 1.084

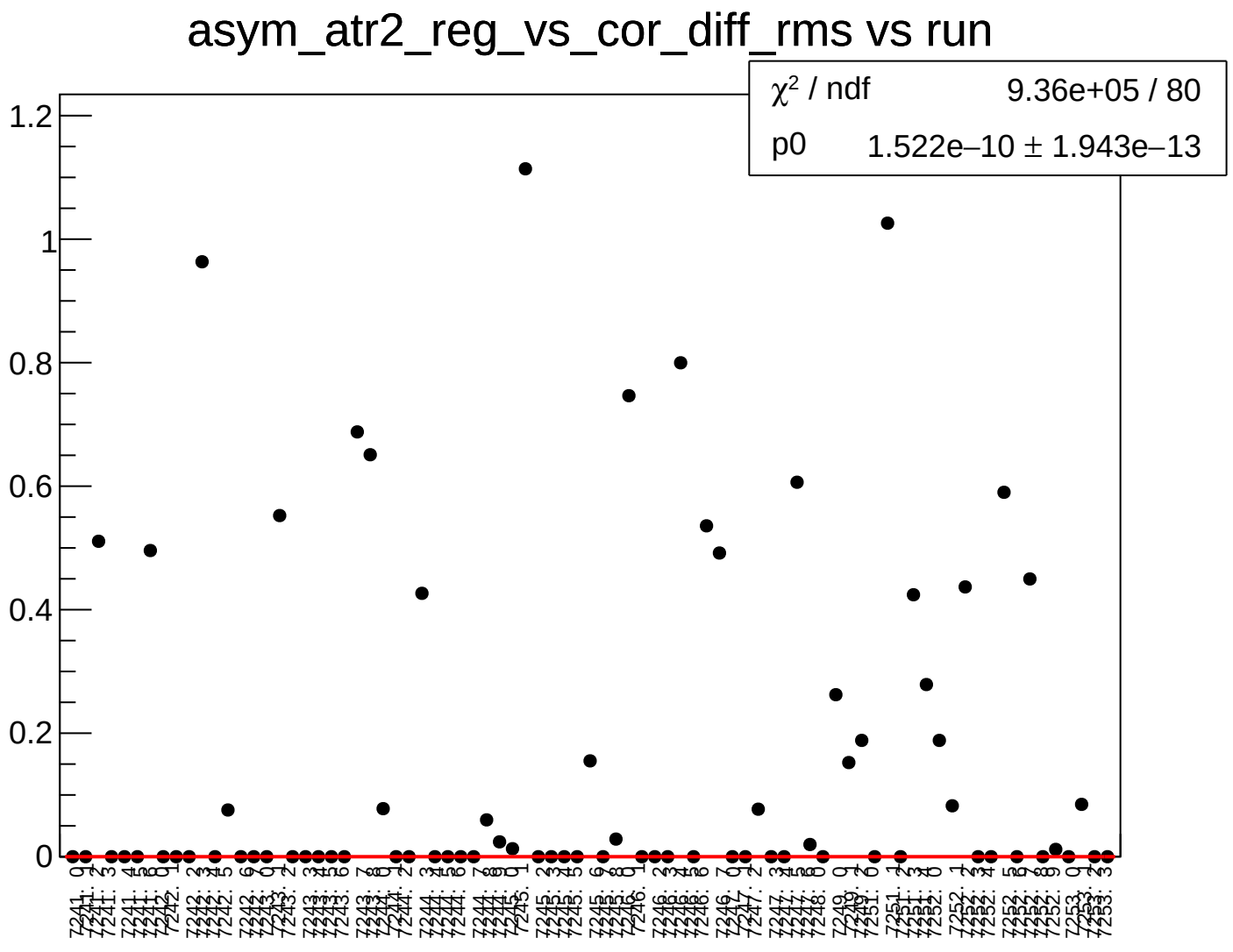

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 5029 / 80
p0 8597 ± 6.919
10500
10000
9500
9000
8500
8000
7500

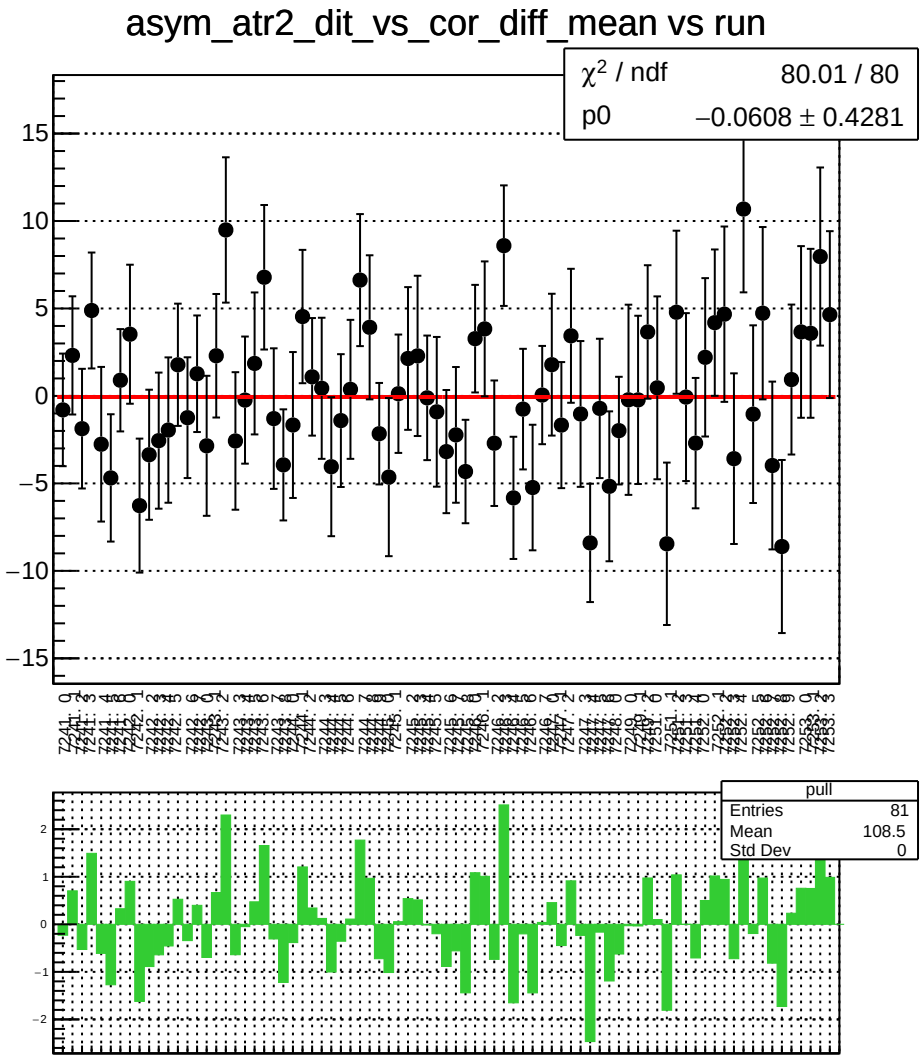

asym_atr2_mean vs run
×10^3
χ² / ndf 97.4 / 80
p0 2050 ± 1.008e+04
pull
Entries 81
Mean −132.2
Std Dev 0

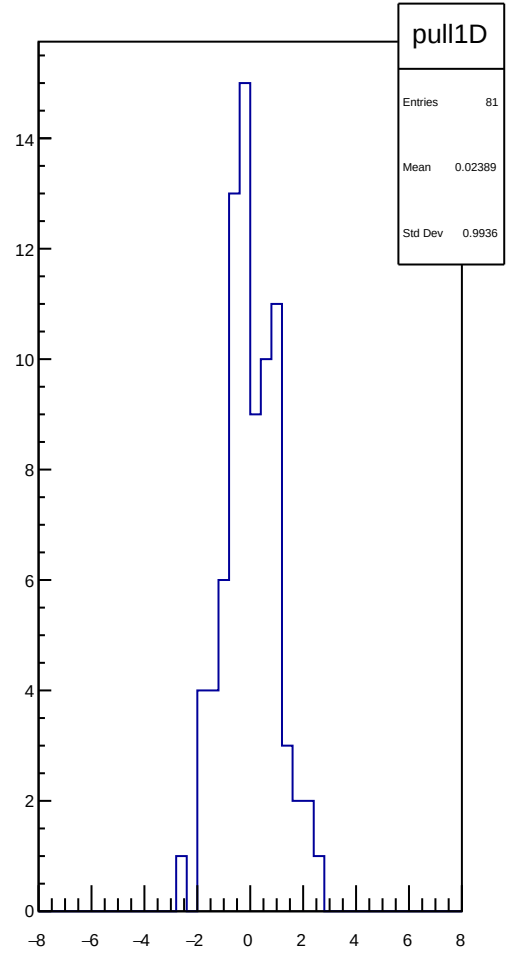

pull1D
Entries 81
Mean −0.02276
Std Dev 1.096

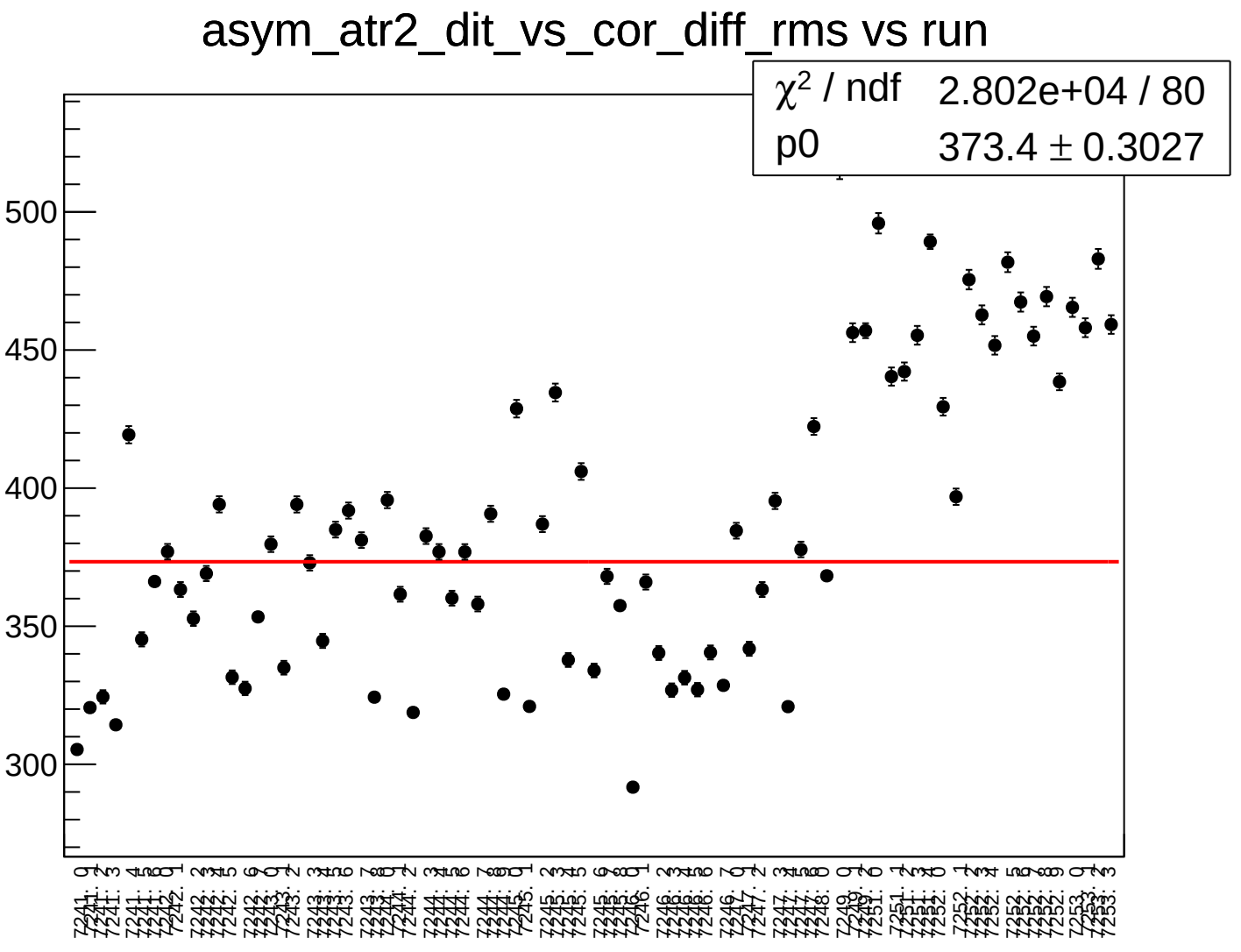

asym_atr2_rms vs run
χ² / ndf 4580 / 80
p0 8856 ± 7.125
10500
10000
9500
9000
8500
8000

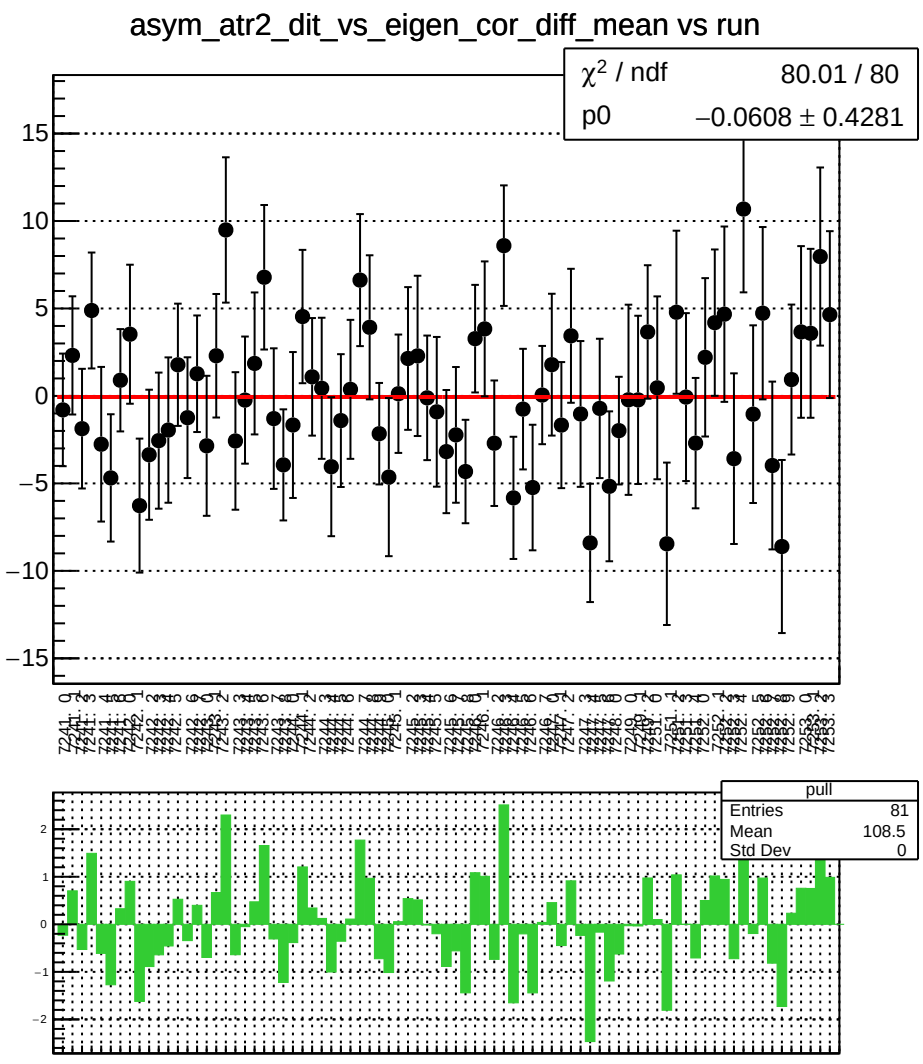

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 84.4 / 80
p0 −2.139e−13 ± 2.748e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 81
Mean 28.52
Std Dev 14.33
pull1D
Entries 81
Mean −0.1309
Std Dev 1.012
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

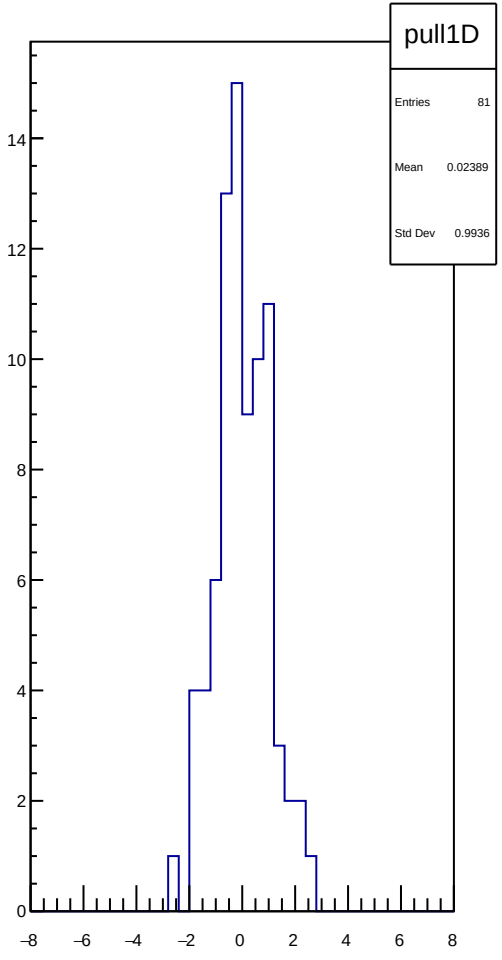

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 9.36e+05 / 80
p0 1.522e−10 ± 1.943e−13
1.2
1
0.8
0.6
0.4
0.2
0

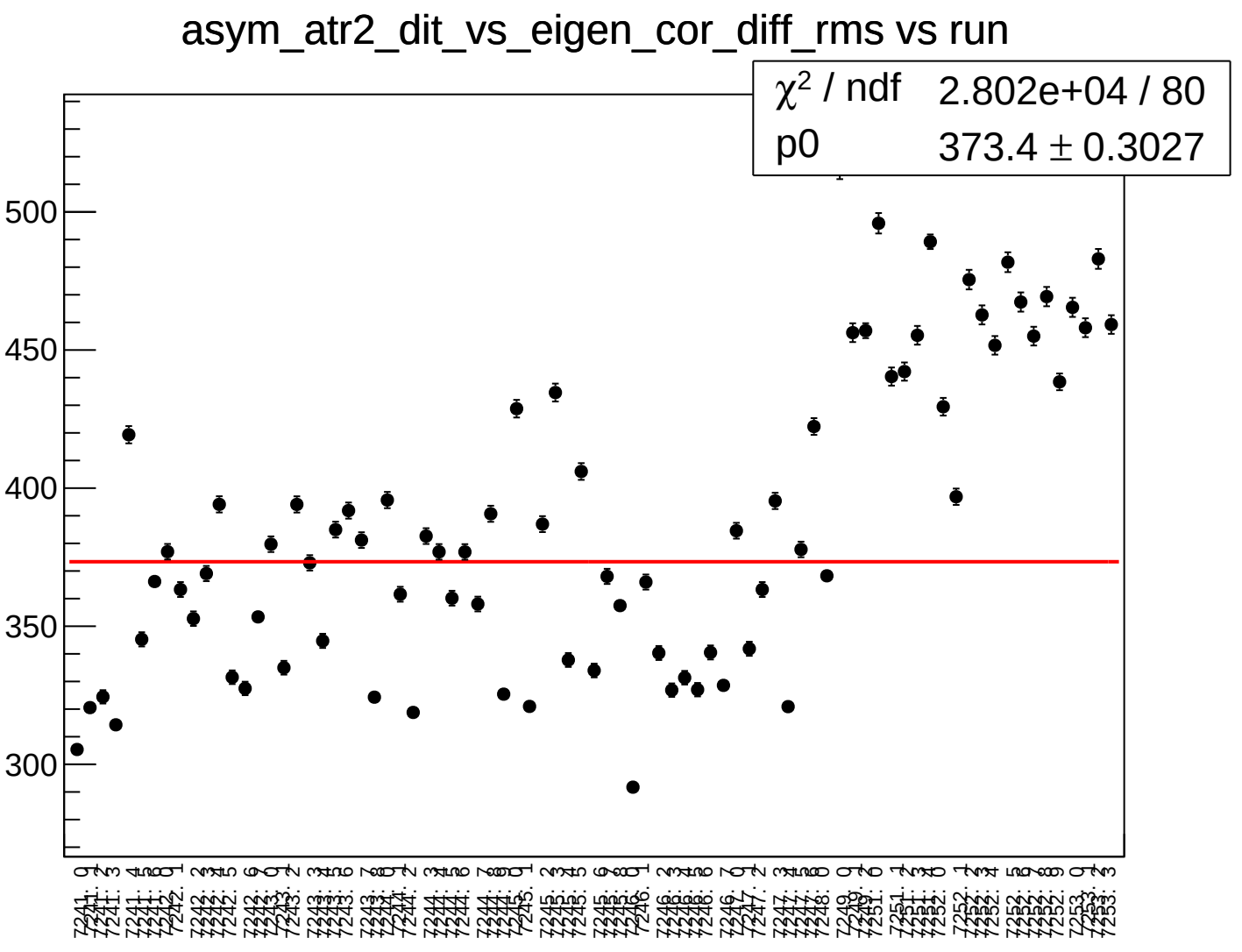

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 80.01 / 80
p0 −0.0608 ± 0.4281
pull
Entries 81
Mean 108.5
Std Dev 0

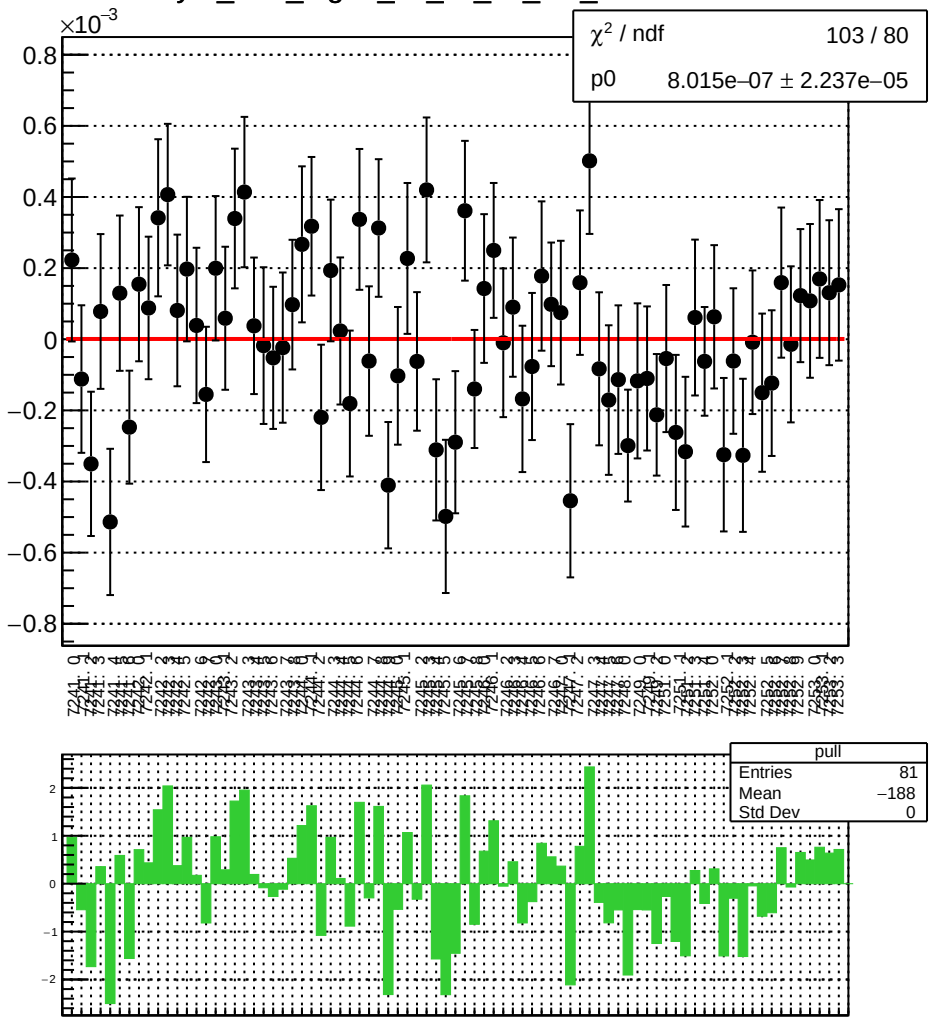

pull1D
Entries 81
Mean 0.02389
Std Dev 0.9936

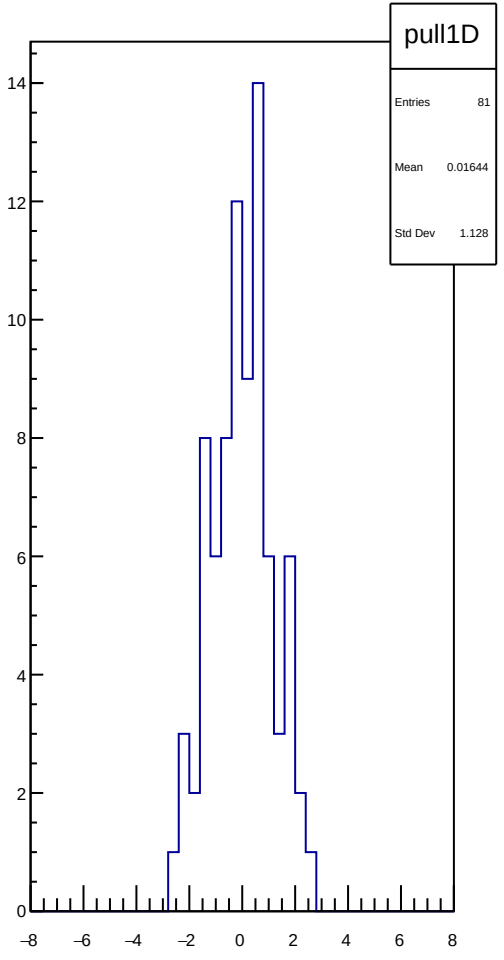

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 2.802e+04 / 80
p0 373.4 ± 0.3027
500
450
400
350
300

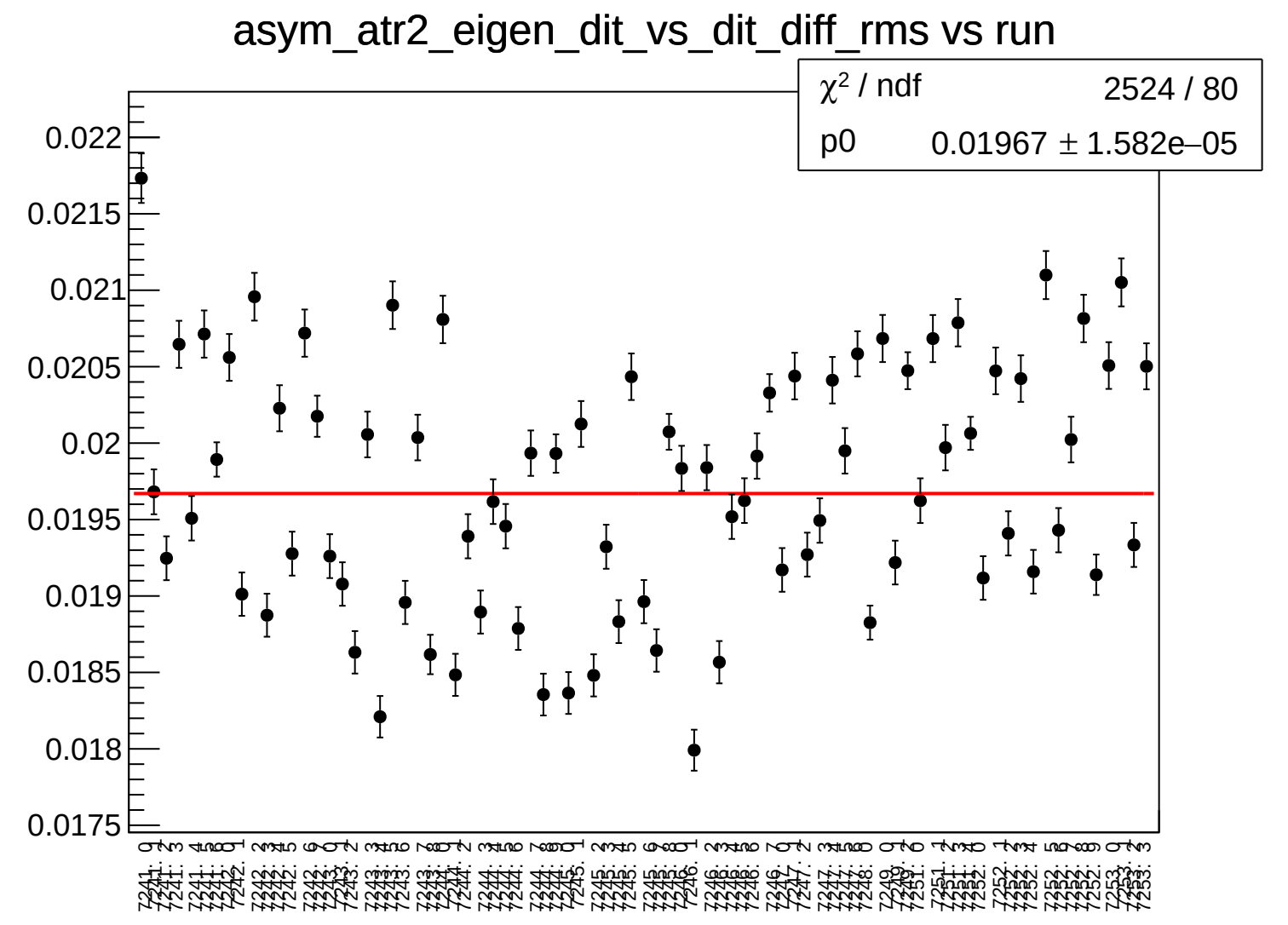

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.01 / 80
p0 −0.0608 ± 0.4281
pull
Entries 81
Mean 108.5
Std Dev 0

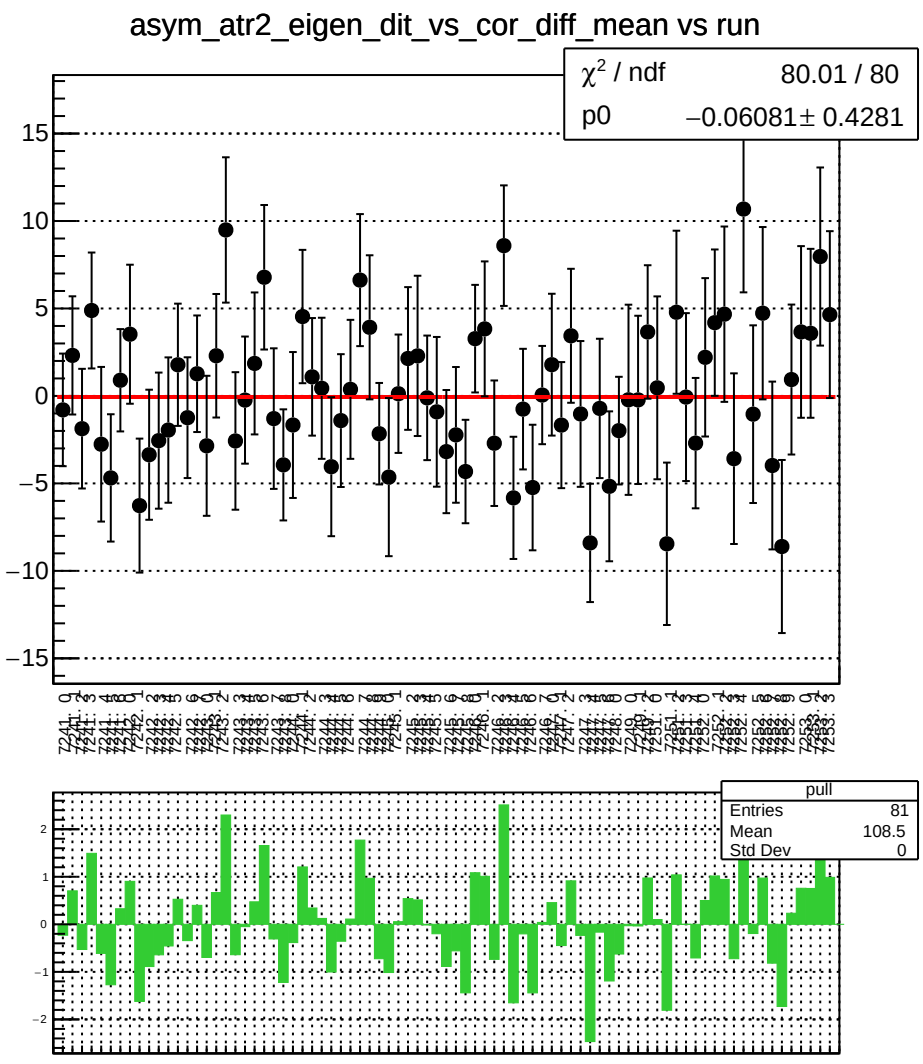

pull1D
Entries 81
Mean 0.02389
Std Dev 0.9936

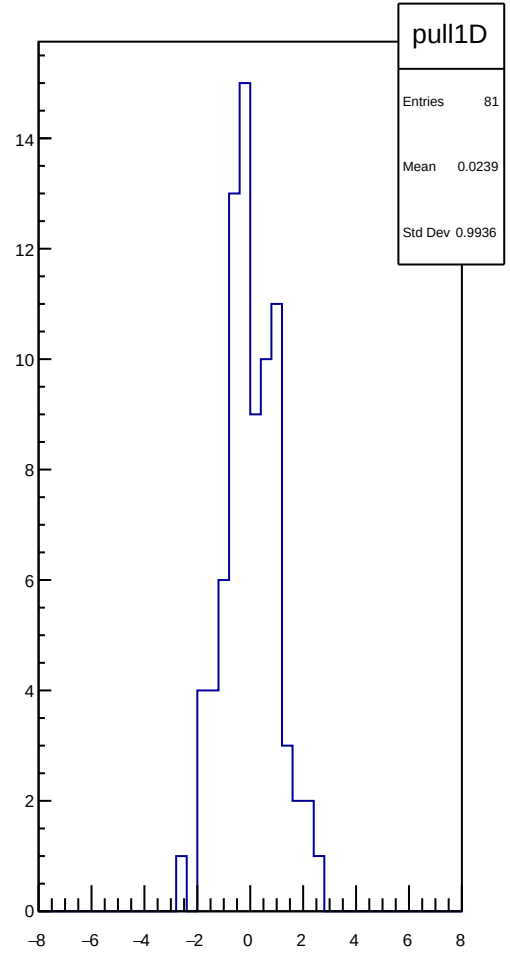

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.802e+04 / 80
p0 373.4 ± 0.3027
500
450
400
350
300

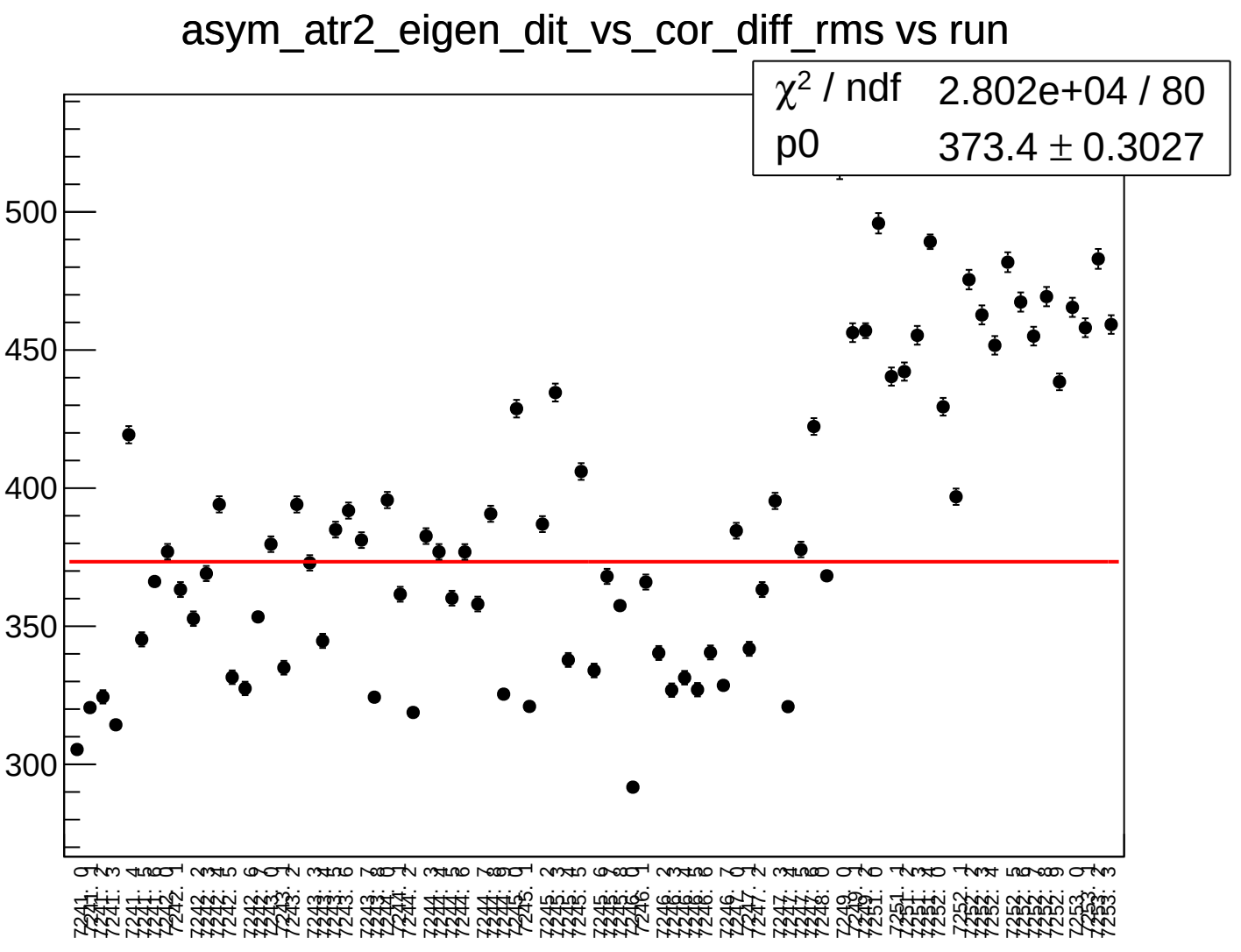

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103 / 80
p0 8.015e−07 ± 2.237e−05
pull
Entries 81
Mean −188
Std Dev 0

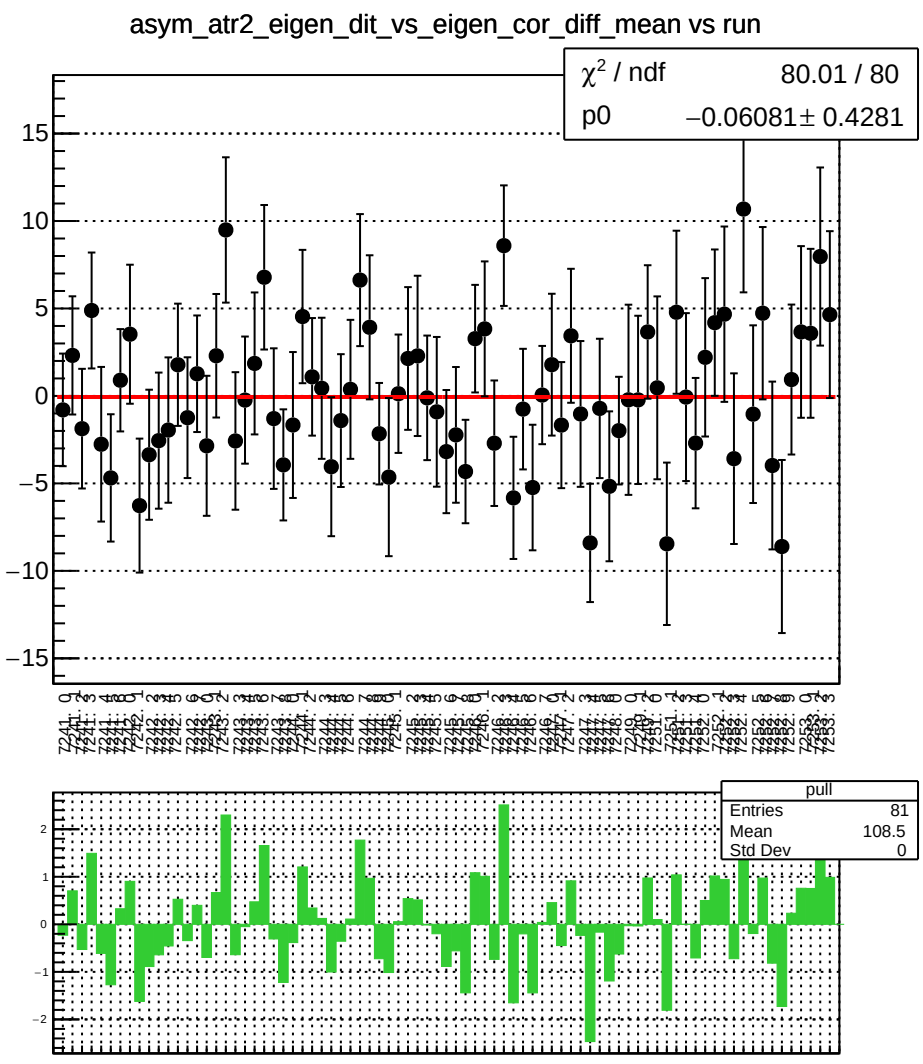

pull1D
Entries 81
Mean 0.01644
Std Dev 1.128

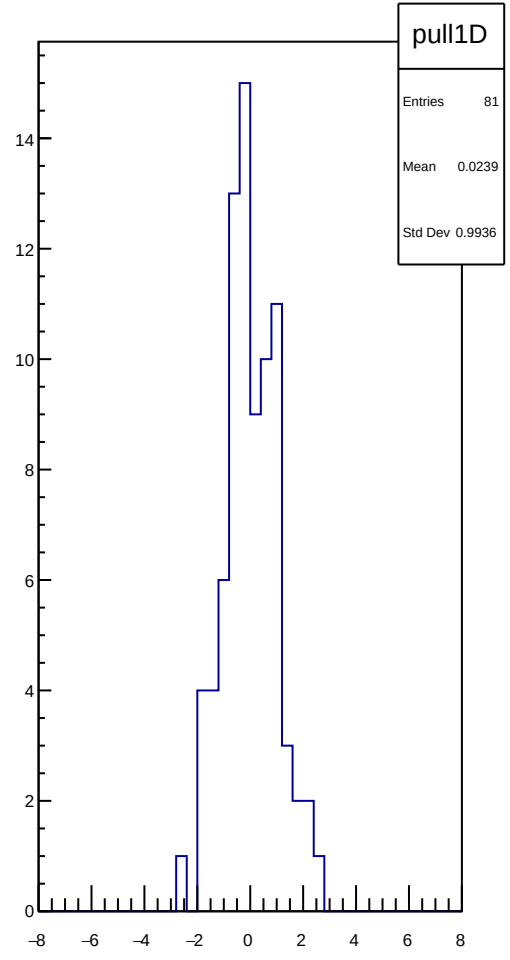

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2524 / 80
p0 0.01967 ± 1.582e–05
0.022
0.0215
0.021
0.0205
0.02
0.0195
0.019
0.0185
0.018
0.0175

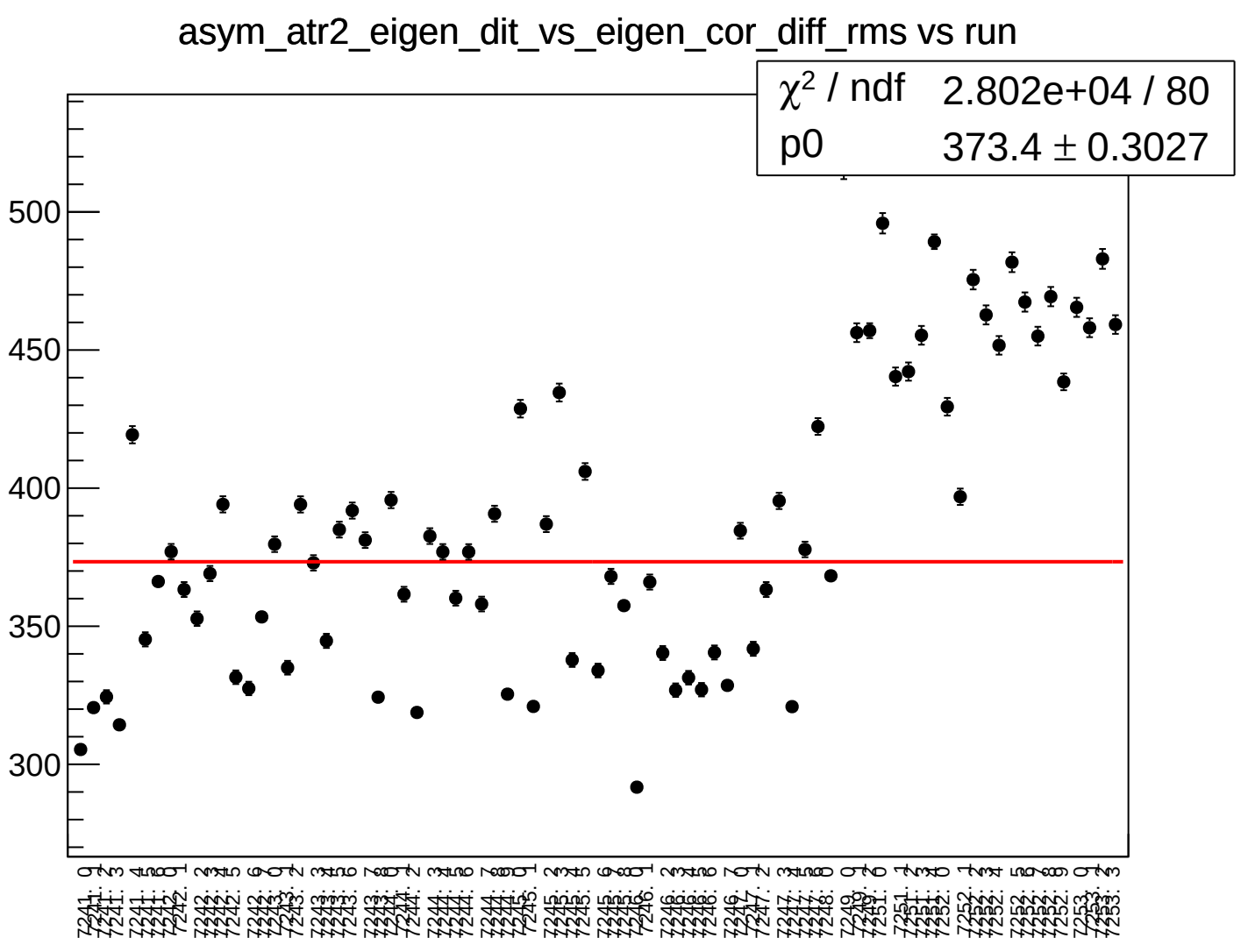

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.01 / 80
p0 −0.06081 ± 0.4281
pull
Entries 81
Mean 108.5
Std Dev 0

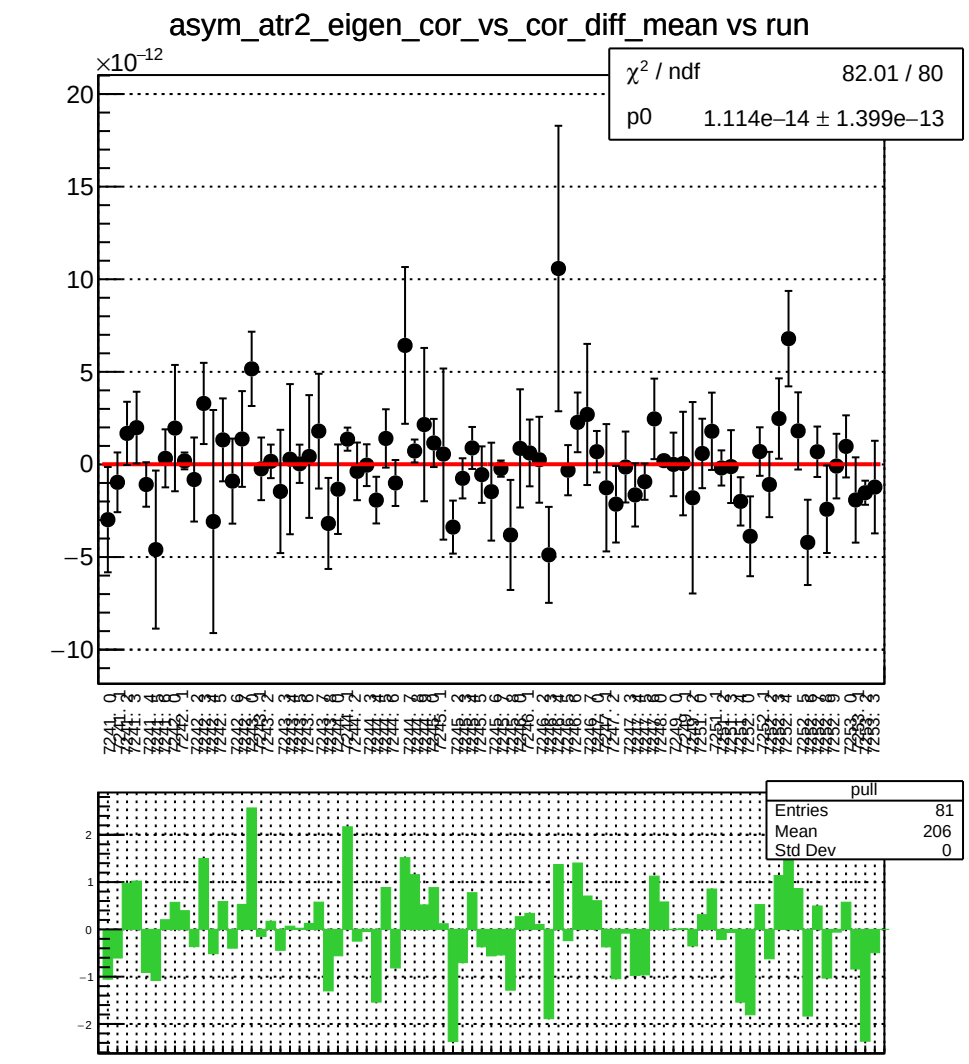

pull1D
Entries 81
Mean 0.0239
Std Dev 0.9936

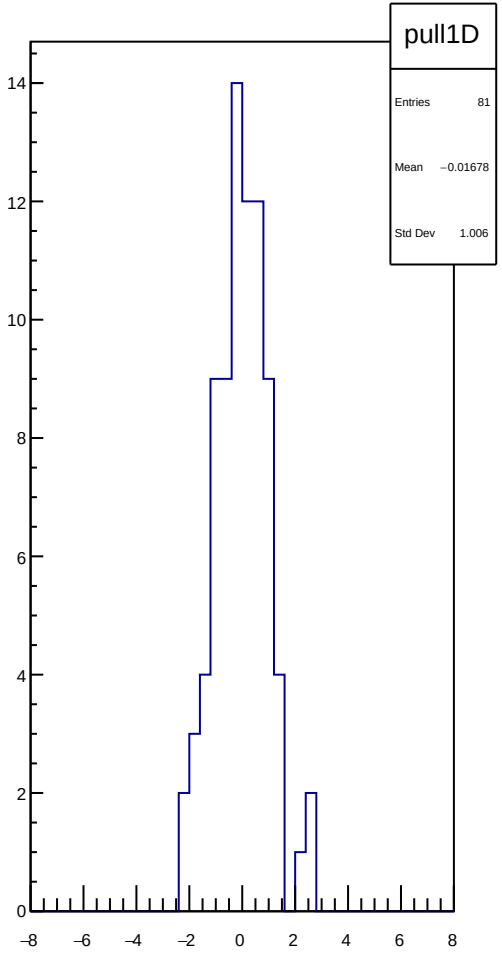

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.802e+04 / 80
p0 373.4 ± 0.3027
500
450
400
350
300

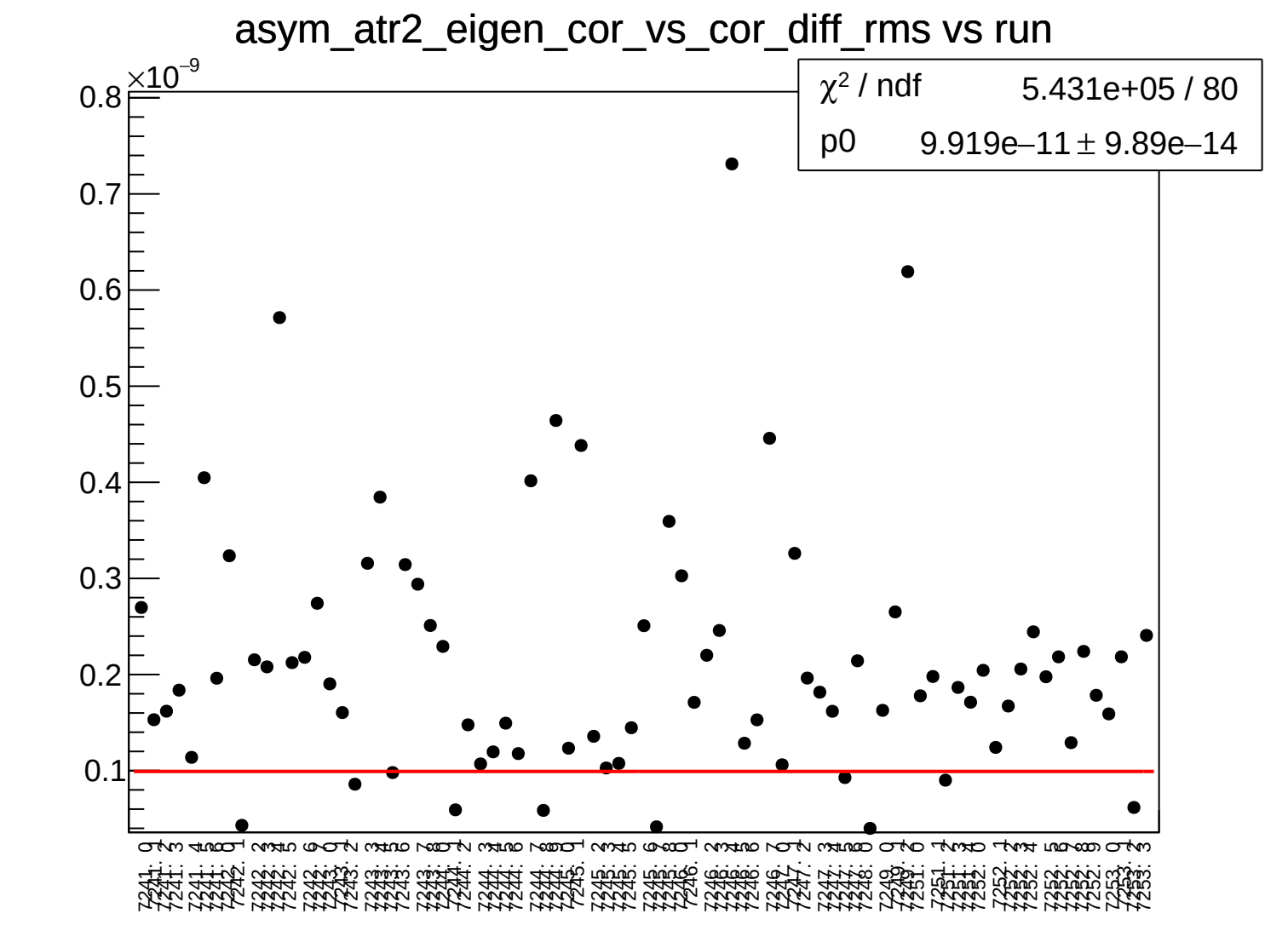

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.01 / 80
p0 −0.06081 ± 0.4281
pull
Entries 81
Mean 108.5
Std Dev 0

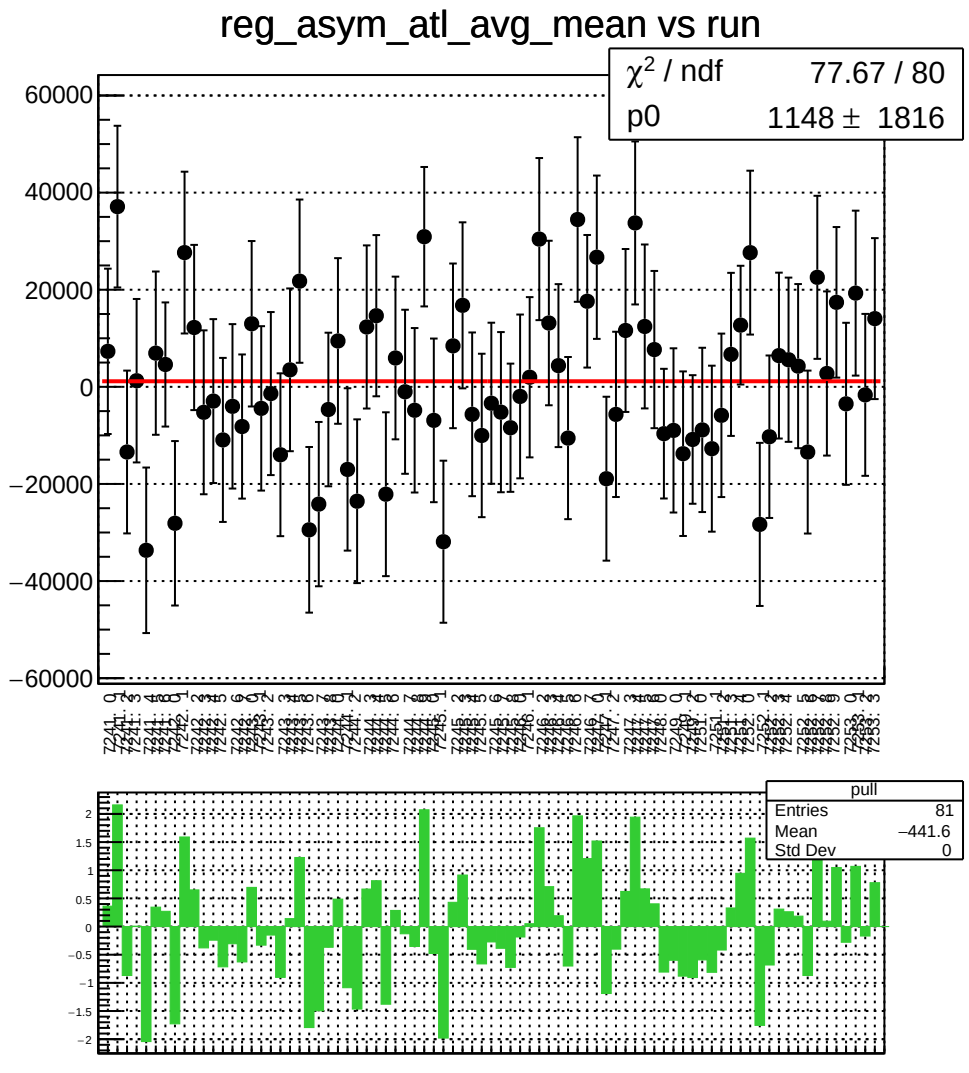

pull1D
Entries 81
Mean 0.0239
Std Dev 0.9936

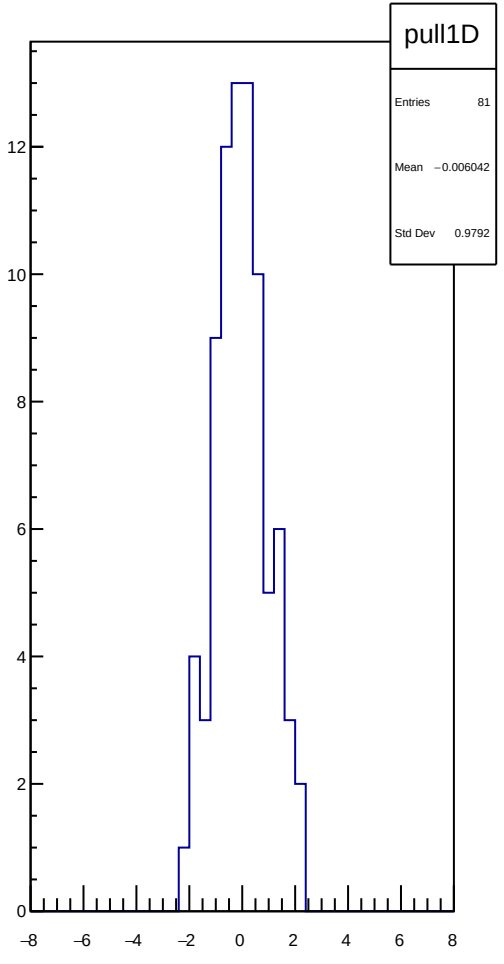

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.802e+04 / 80
p0 373.4 ± 0.3027
500
450
400
350
300

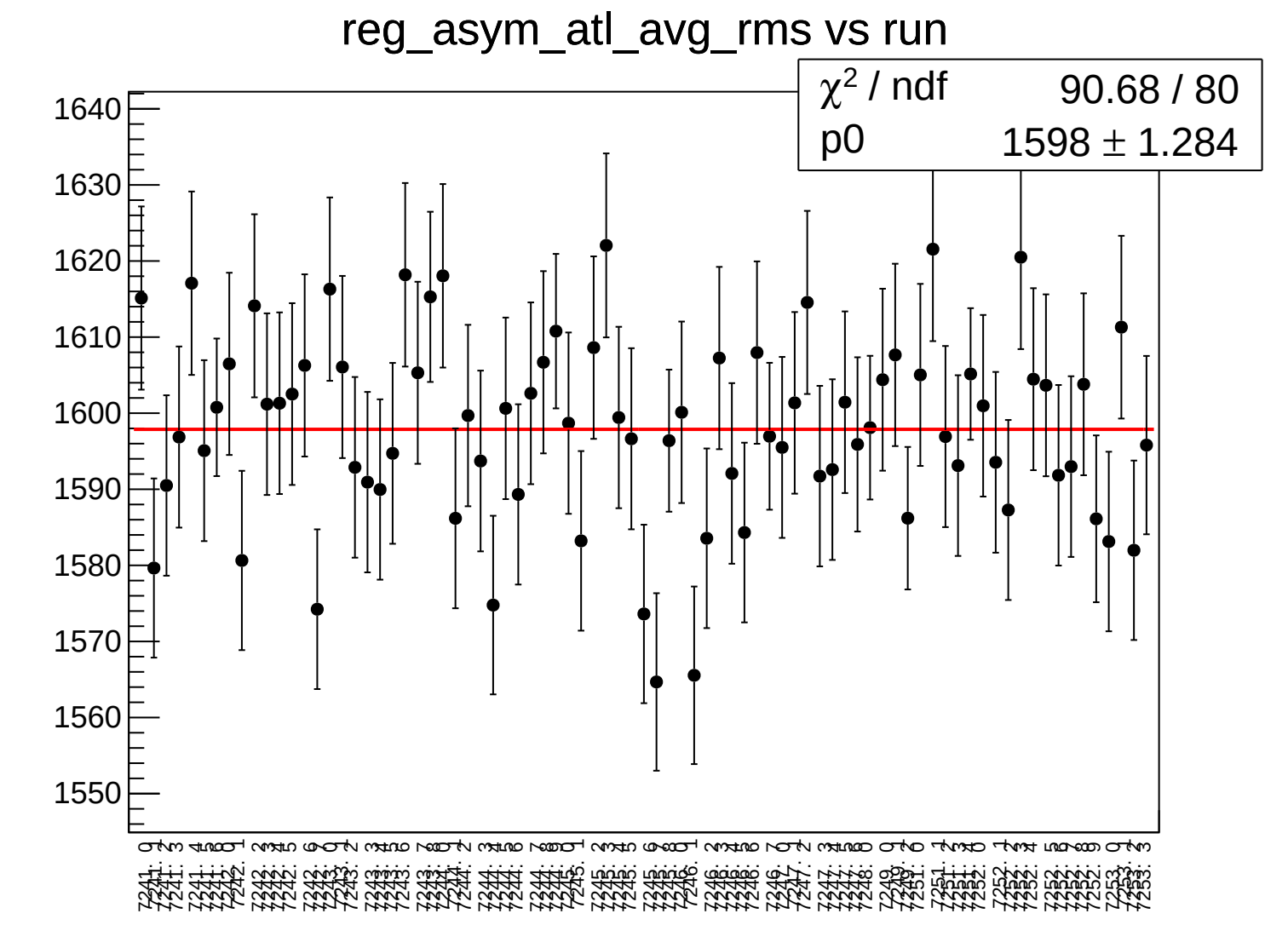

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.01 / 80
p0 1.114e−14 ± 1.399e−13
pull
Entries 81
Mean 206
Std Dev 0

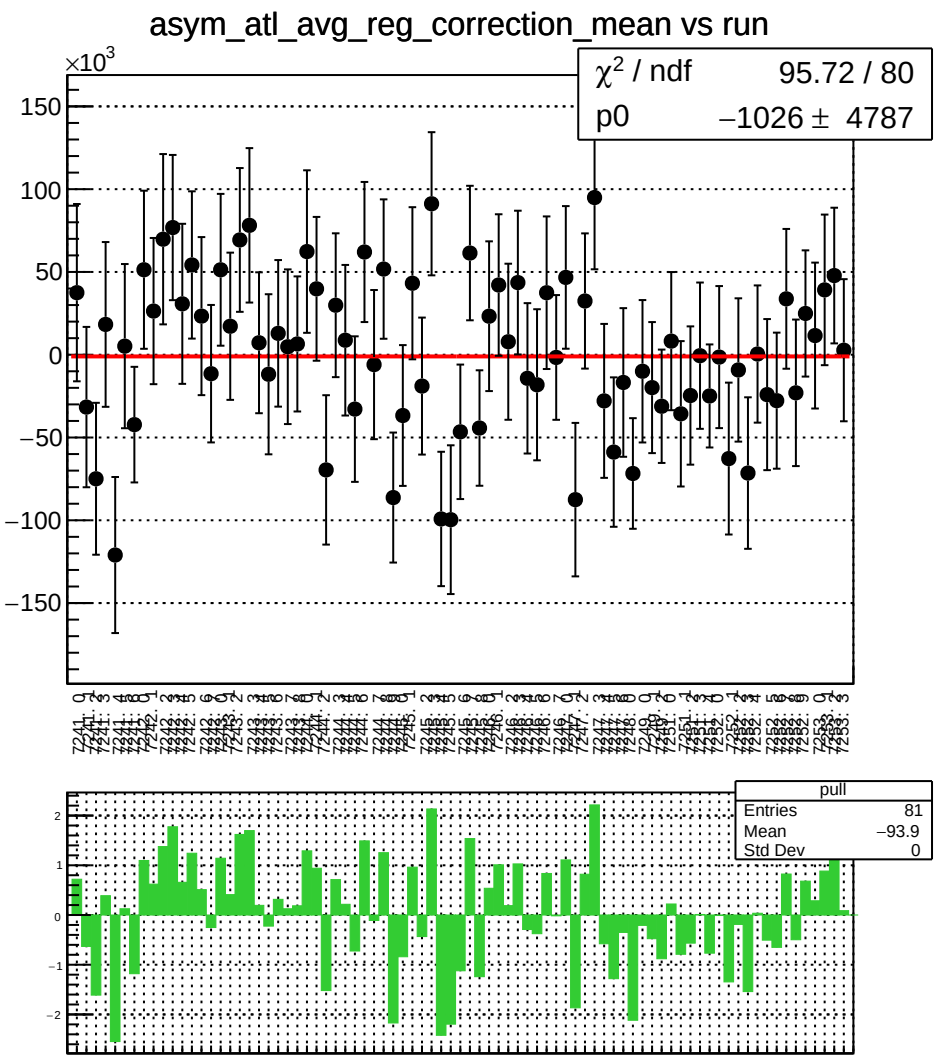

pull1D
Entries 81
Mean −0.01678
Std Dev 1.006

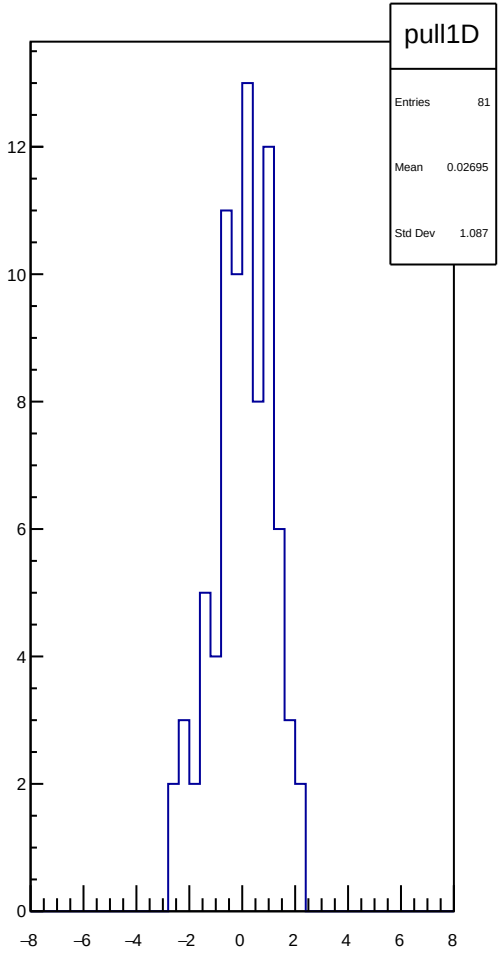

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 5.431e+05 / 80
p0 9.919e−11 ± 9.89e−14

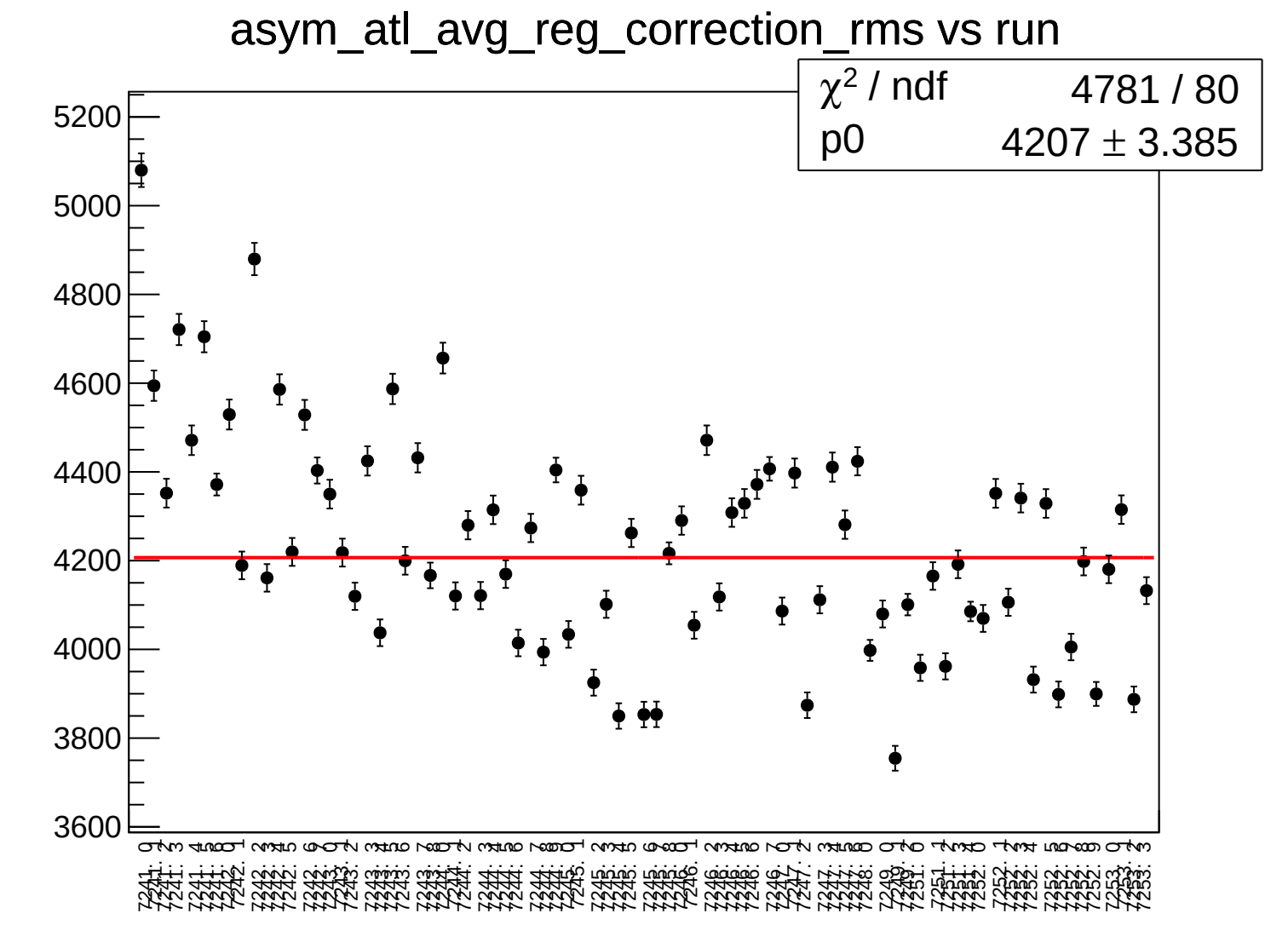

reg_asym_atl_avg_mean vs run
χ² / ndf 77.67 / 80
p0 1148 ± 1816
pull
Entries 81
Mean −441.6
Std Dev 0

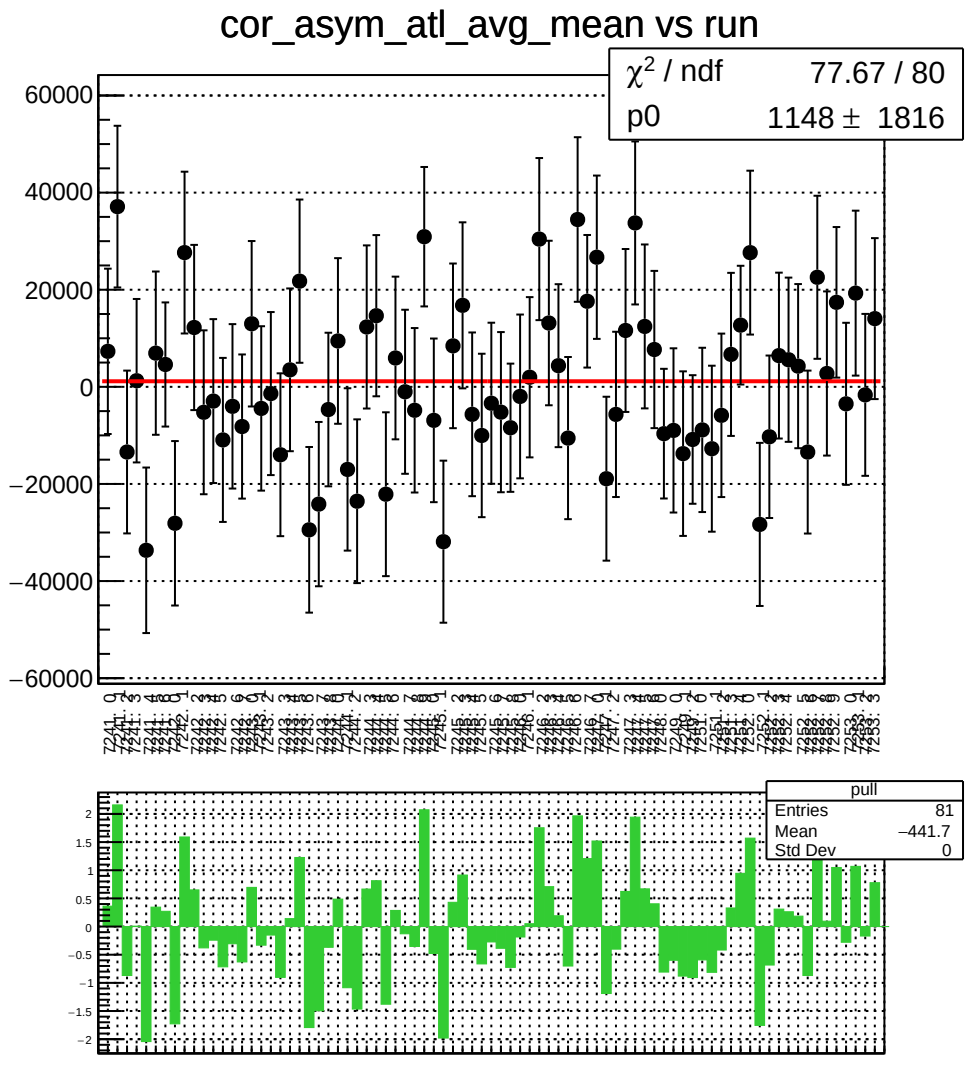

pull1D
Entries 81
Mean −0.006042
Std Dev 0.9792

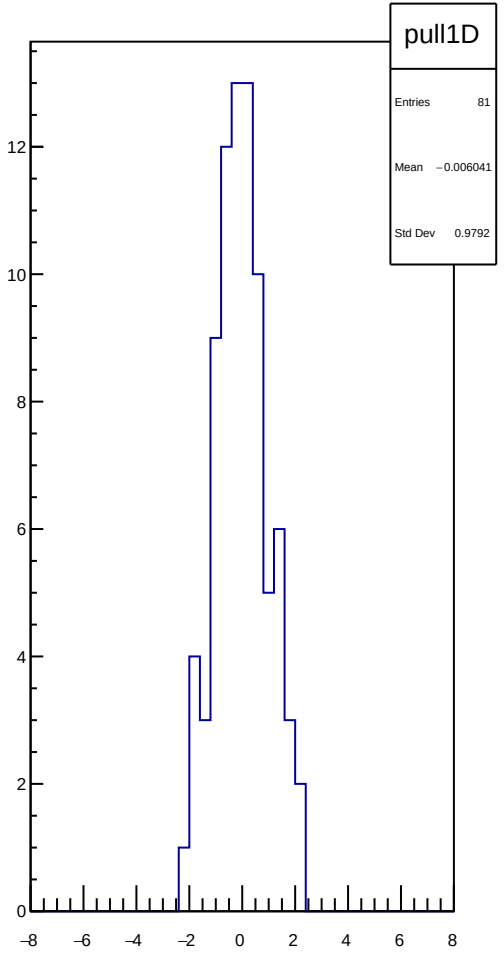

reg_asym_atl_avg_rms vs run
χ² / ndf 90.68 / 80
p0 1598 ± 1.284
1640
1630
1620
1610
1600
1590
1580
1570
1560
1550

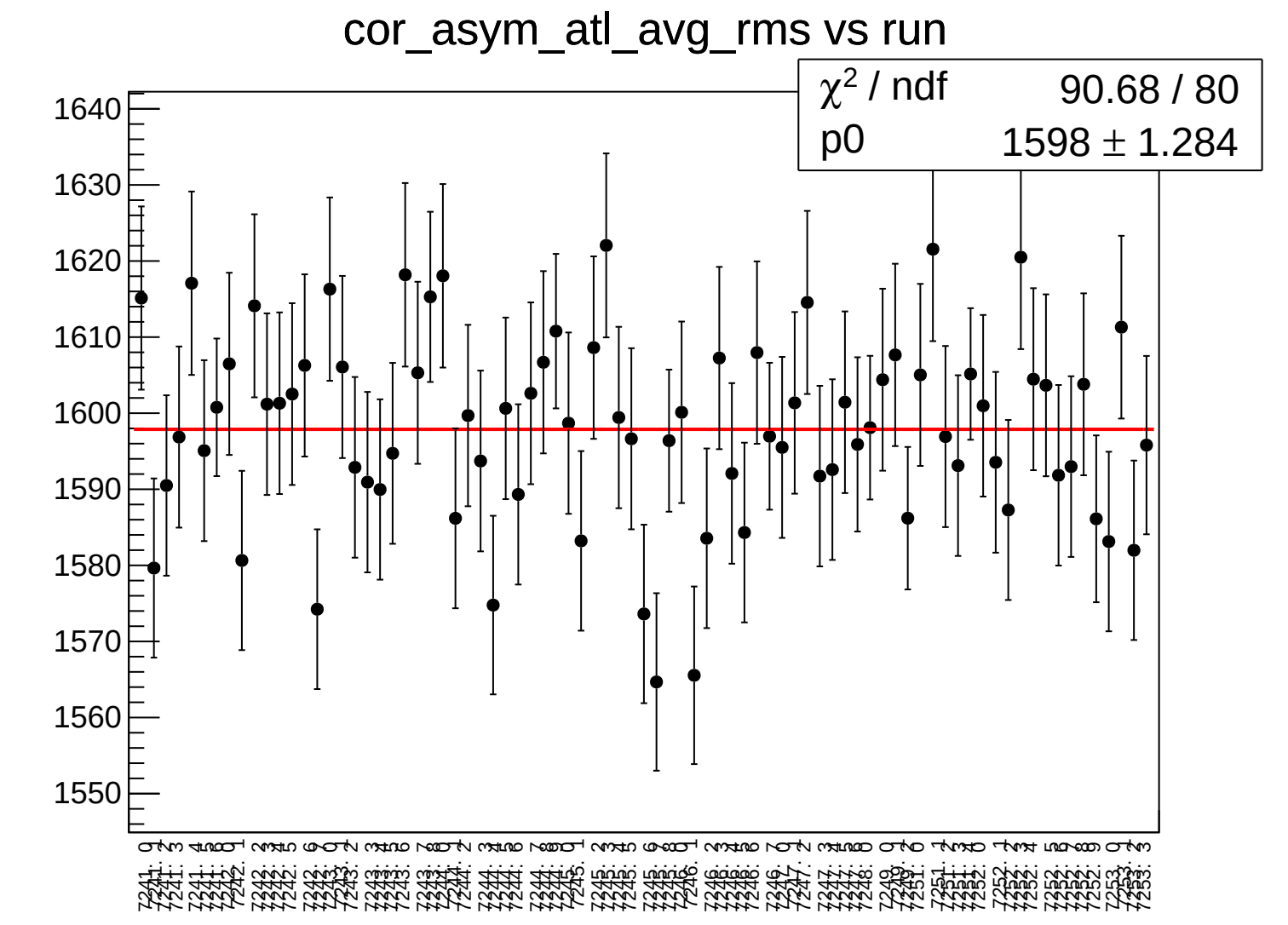

asym_atl_avg_reg_correction_mean vs run
×10^3
χ² / ndf 95.72 / 80
p0 −1026 ± 4787
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean −93.9
Std Dev 0
2
1
0
−1
−2

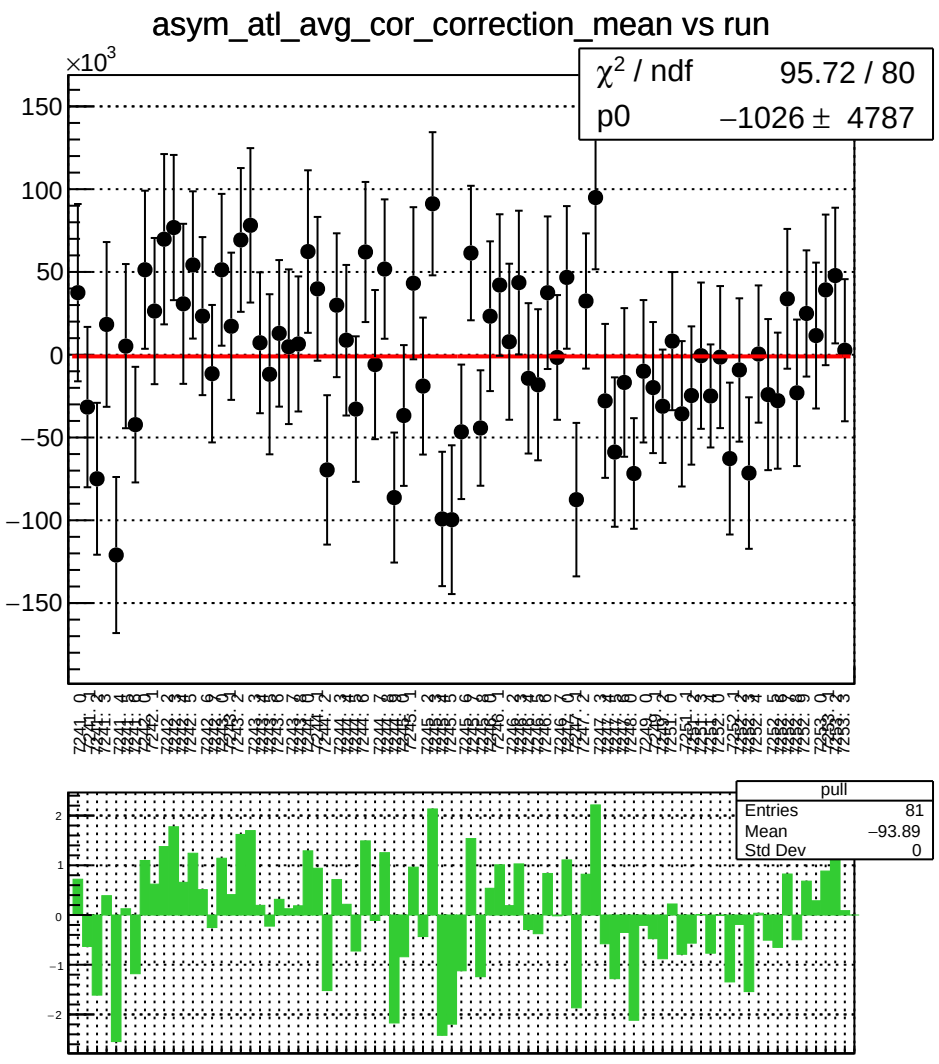

pull1D
Entries 81
Mean 0.02695
Std Dev 1.087
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

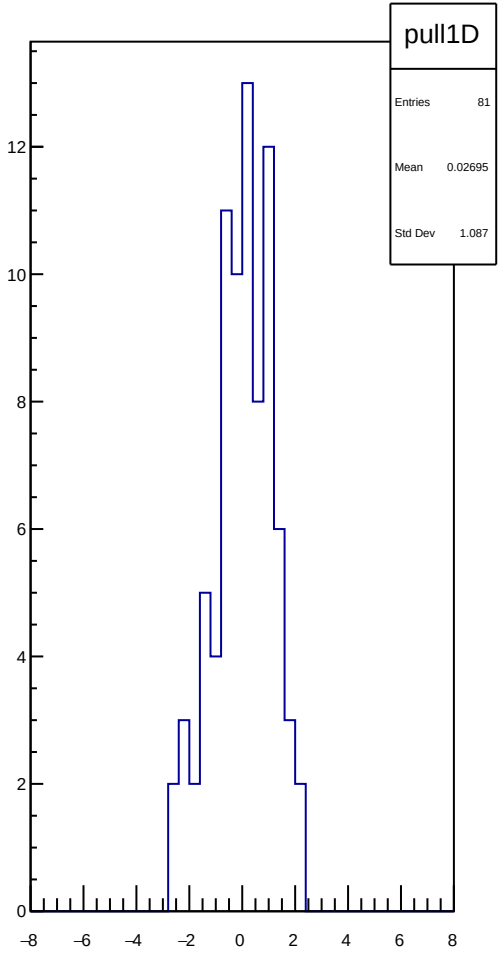

asym_atl_avg_reg_correction_rms vs run
χ² / ndf 4781 / 80
p0 4207 ± 3.385
5200
5000
4800
4600
4400
4200
4000
3800
3600

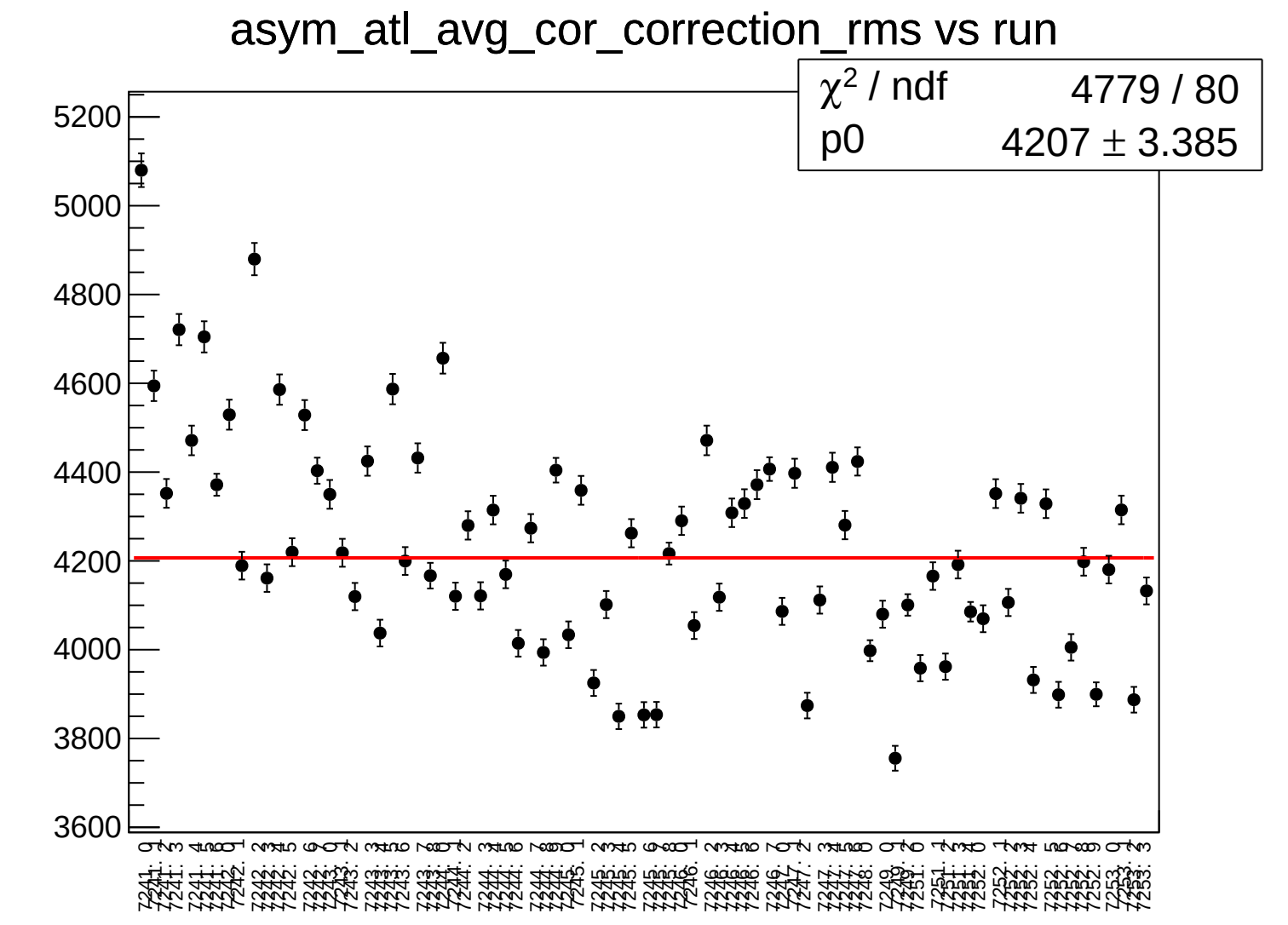

cor_asym_atl_avg_mean vs run
χ² / ndf 77.67 / 80
p0 1148 ± 1816
pull
Entries 81
Mean −441.7
Std Dev 0

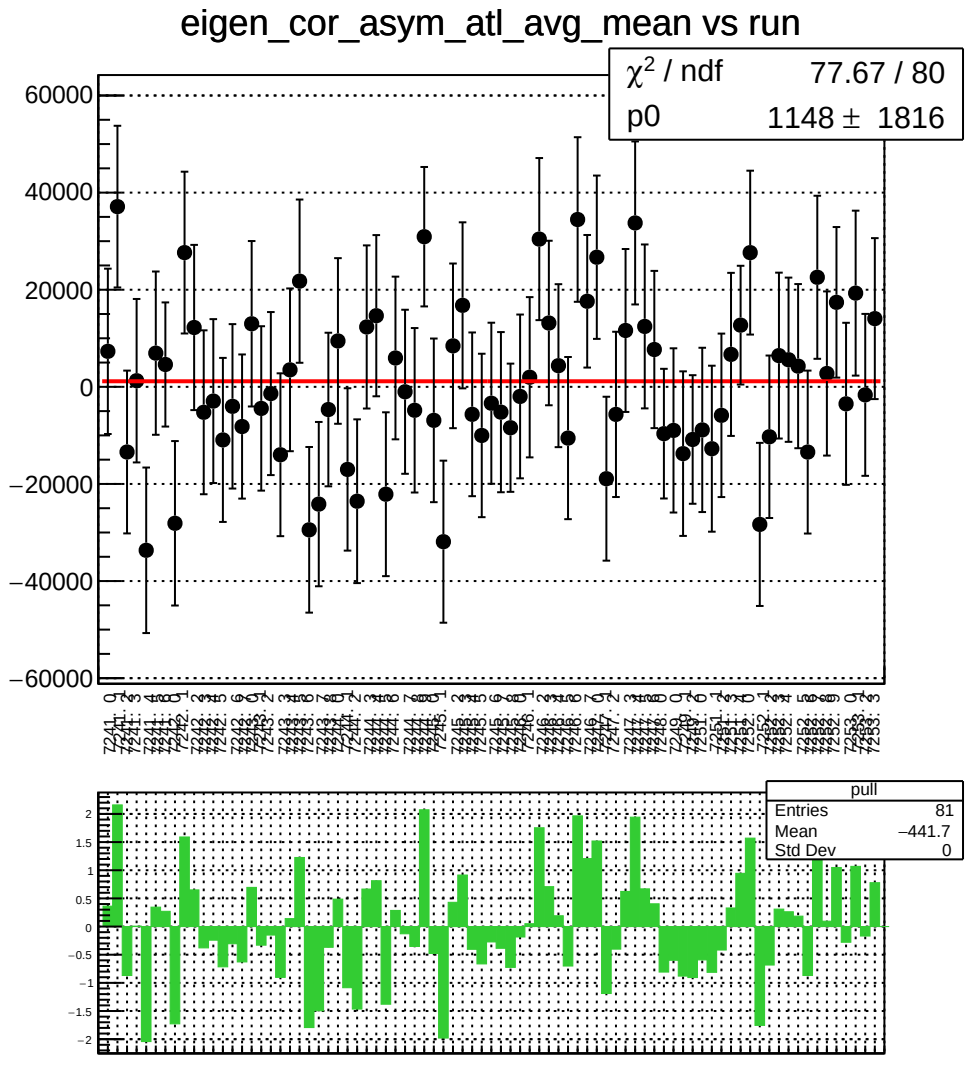

pull1D
Entries 81
Mean −0.006041
Std Dev 0.9792

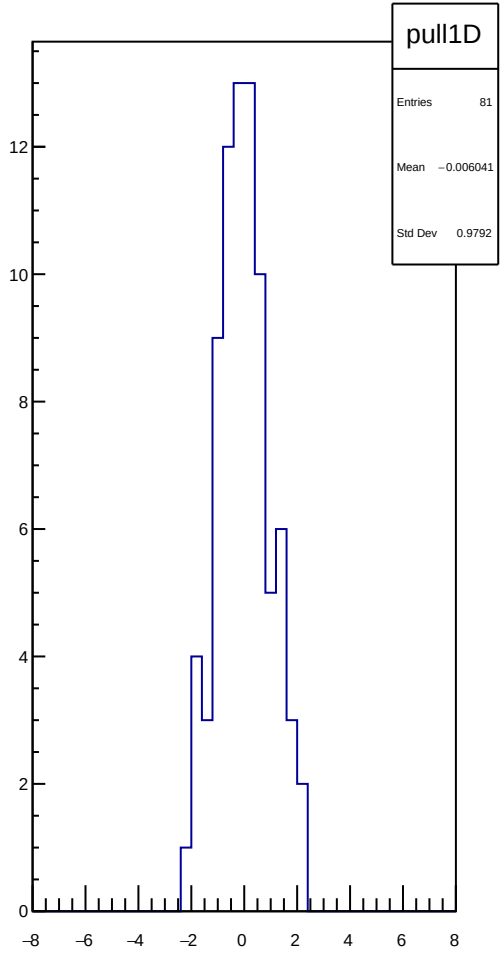

cor_asym_atl_avg_rms vs run
χ^2 / ndf 90.68 / 80
p0 1598 ± 1.284
1640
1630
1620
1610
1600
1590
1580
1570
1560
1550

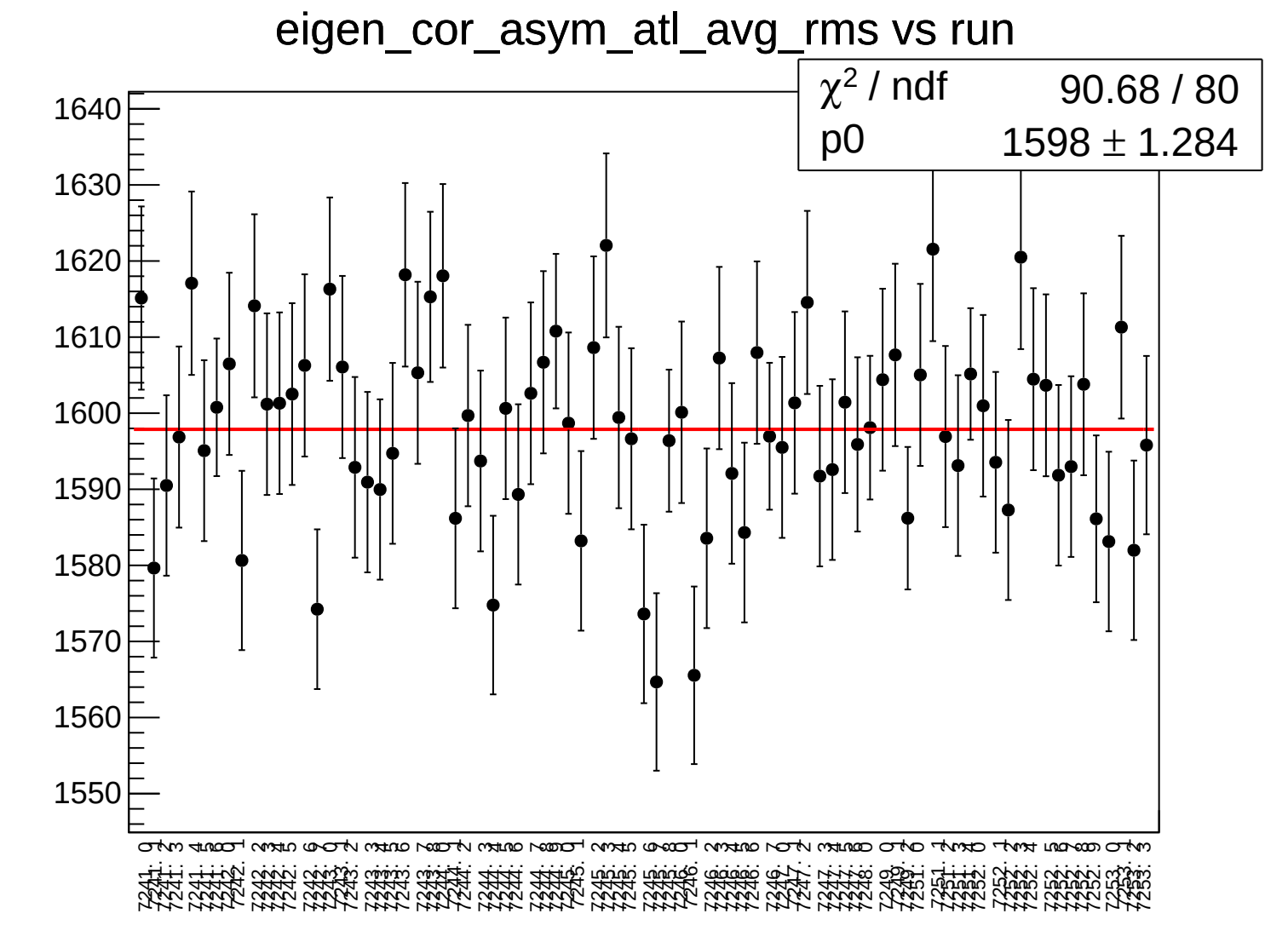

asym_atl_avg_cor_correction_mean vs run
χ² / ndf 95.72 / 80
p0 −1026 ± 4787
×10³
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean −93.89
Std Dev 0
2
1
0
−1
−2

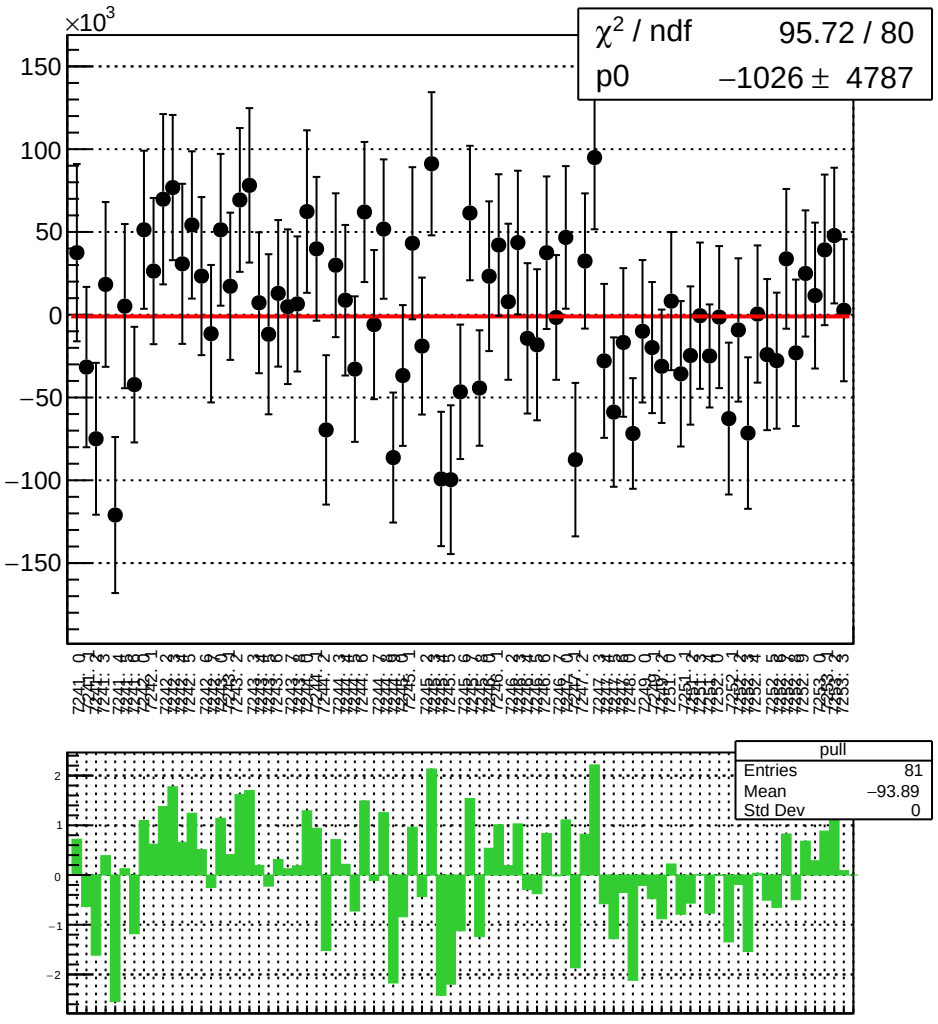

pull1D
Entries 81
Mean 0.02695
Std Dev 1.087
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

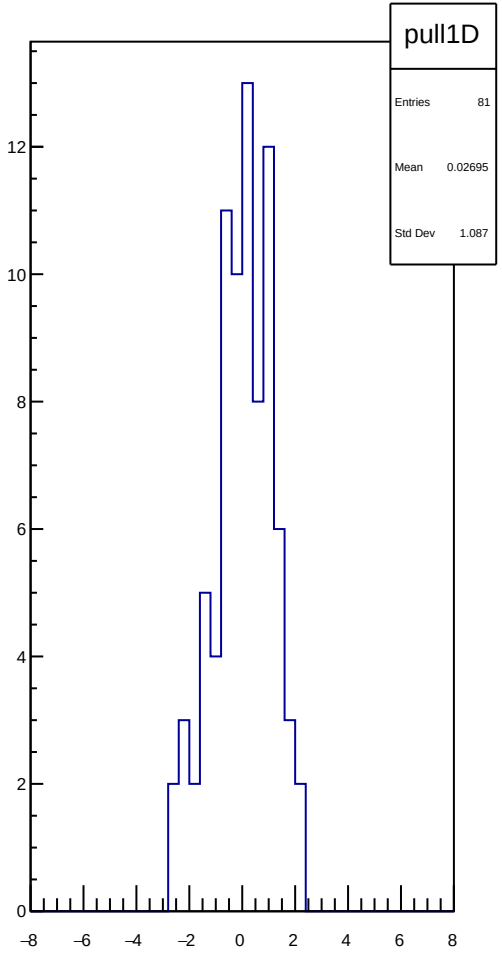

asym_atl_avg_cor_correction_rms vs run
χ² / ndf 4779 / 80
p0 4207 ± 3.385
5200
5000
4800
4600
4400
4200
4000
3800
3600

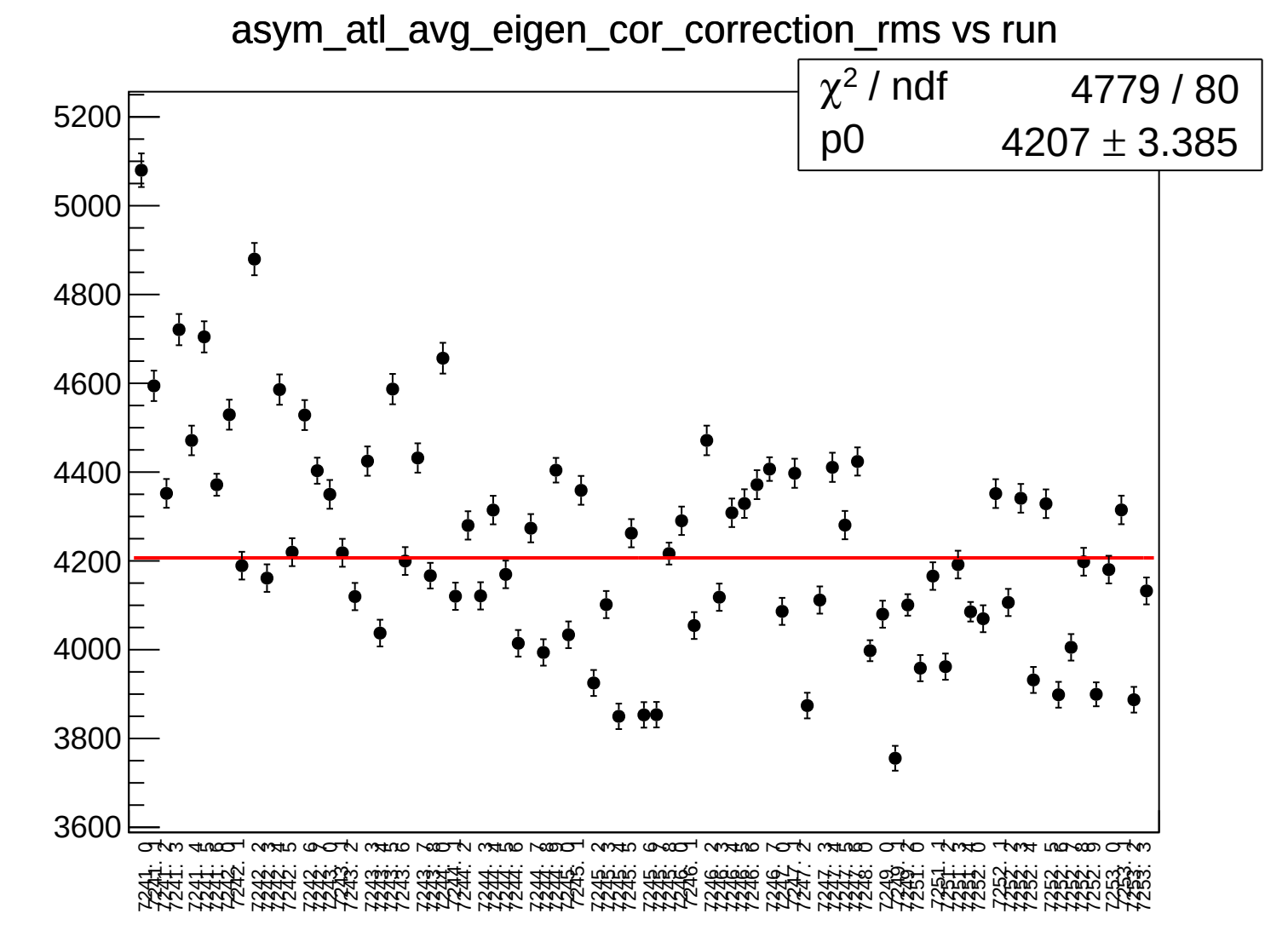

eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 77.67 / 80
p0 1148 ± 1816
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −441.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

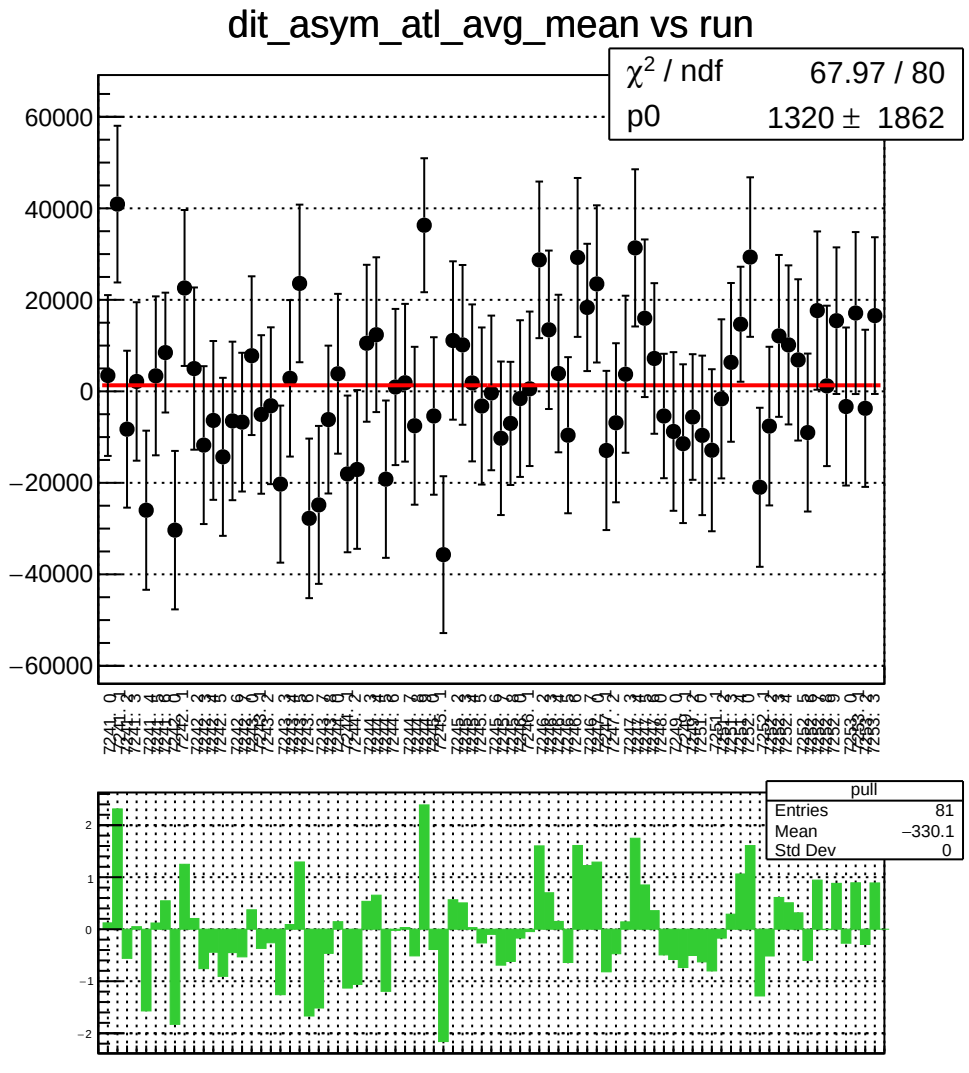

pull1D
Entries 81
Mean −0.006041
Std Dev 0.9792
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

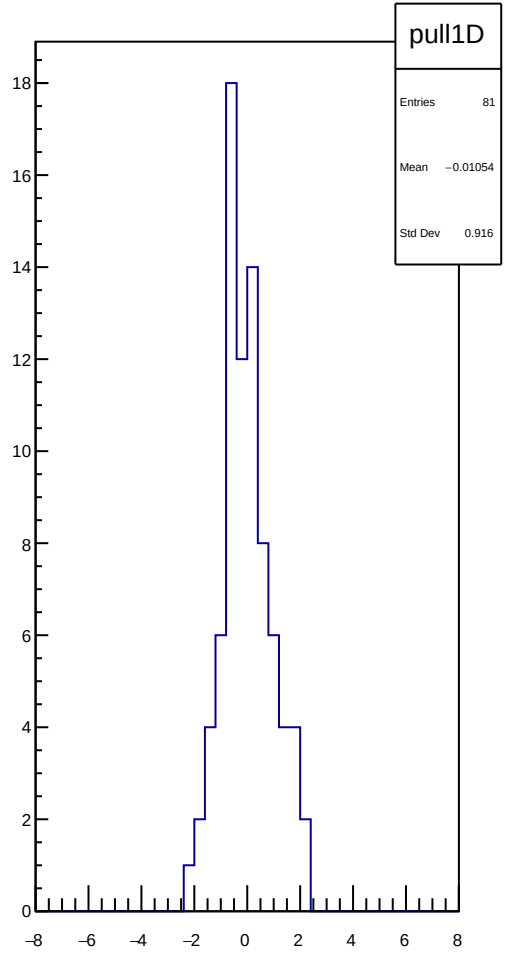

eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 90.68 / 80
p0 1598 ± 1.284
1640
1630
1620
1610
1600
1590
1580
1570
1560
1550

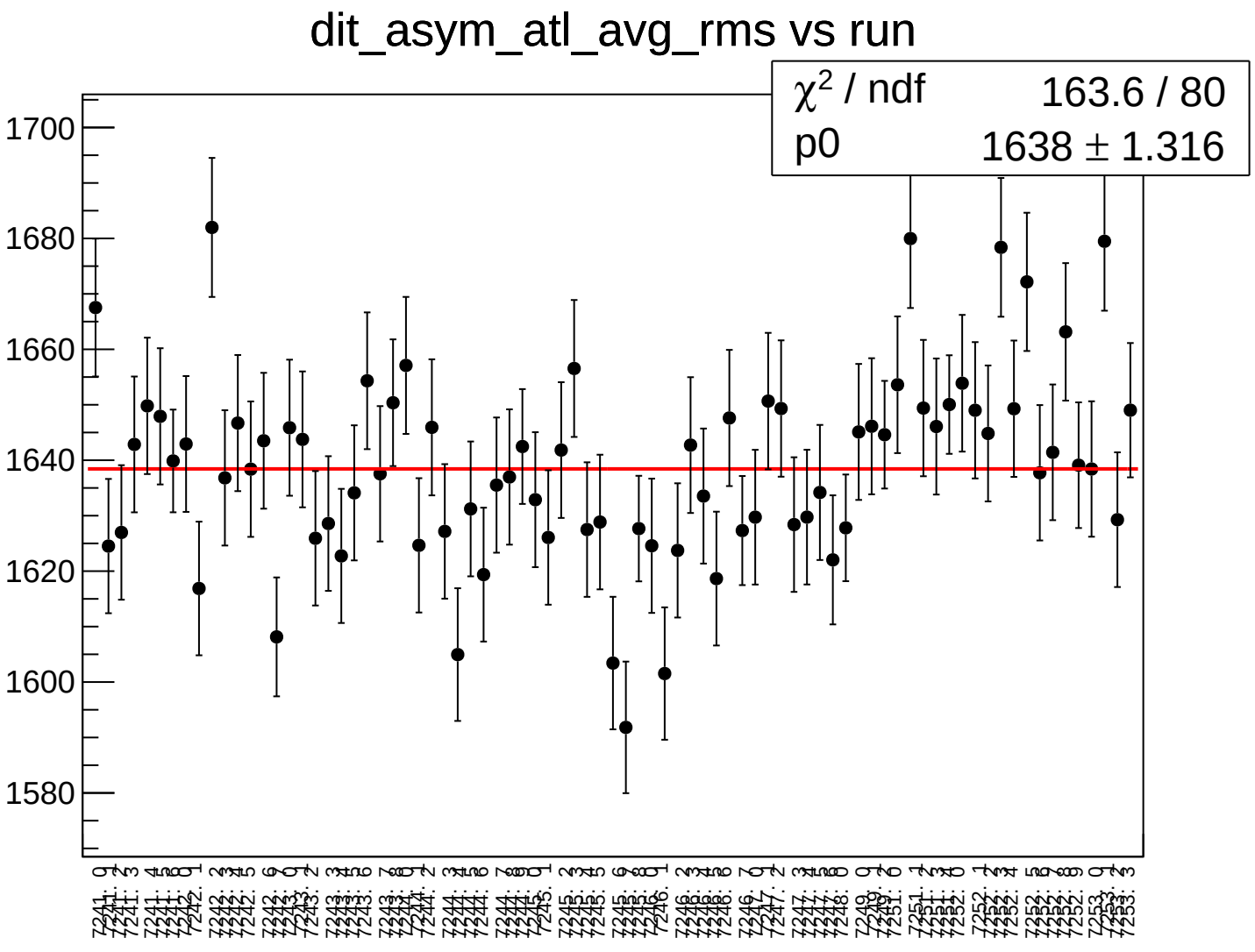

asym_atl_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 95.72 / 80
p0 −1026 ± 4787
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean −93.89
Std Dev 0
2
1
0
−1
−2

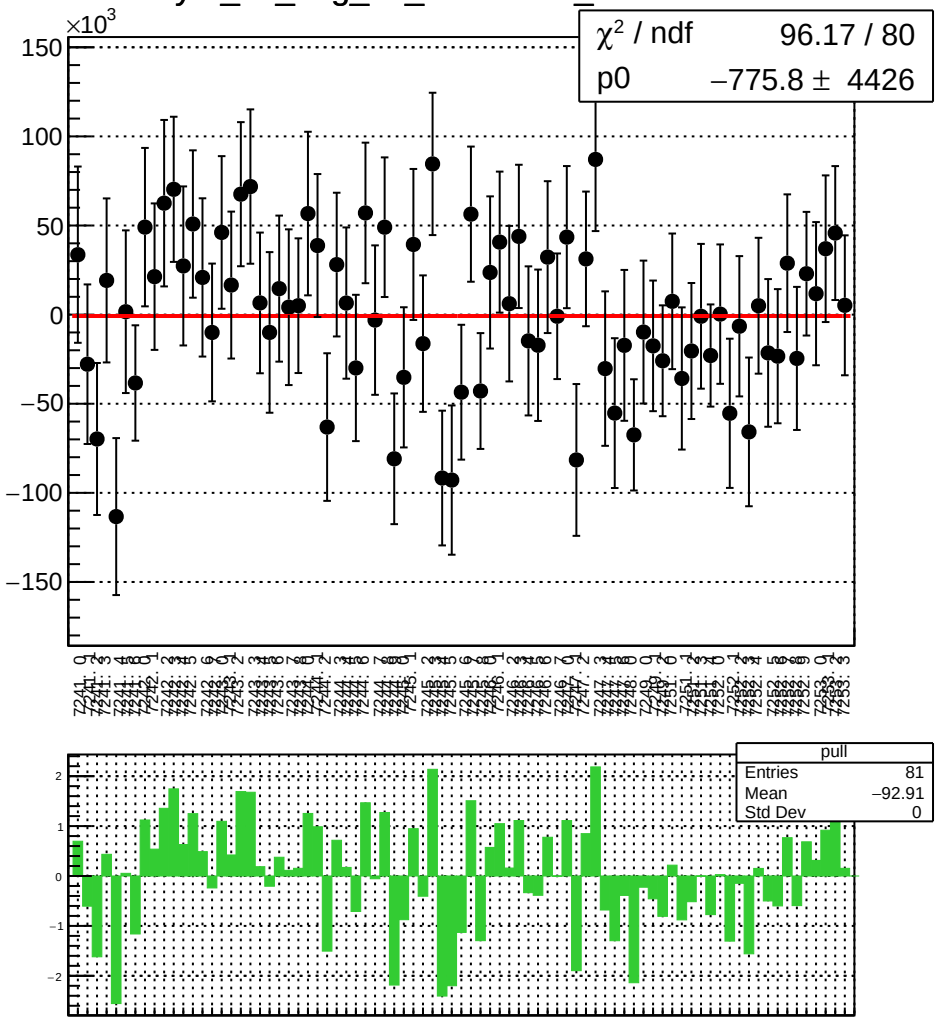

pull1D
Entries 81
Mean 0.02695
Std Dev 1.087
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

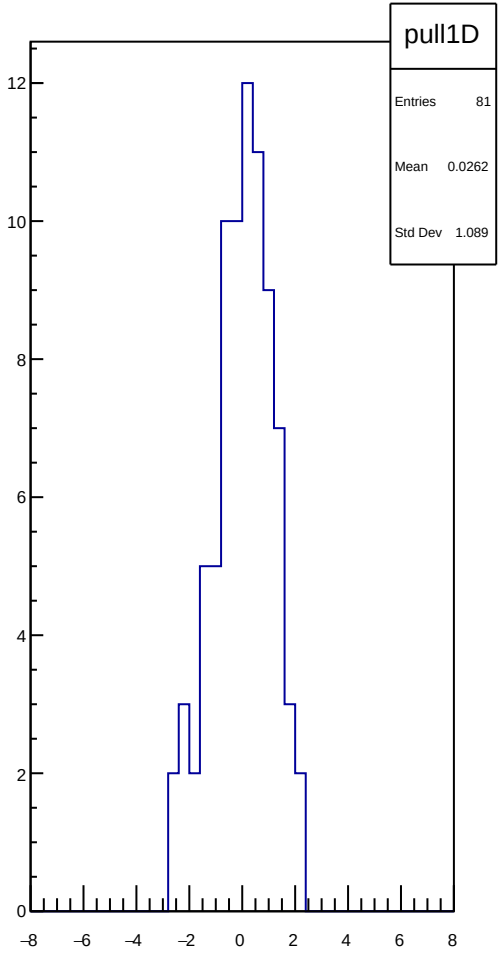

asym_atl_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 4779 / 80
p0 4207 ± 3.385
5200
5000
4800
4600
4400
4200
4000
3800
3600

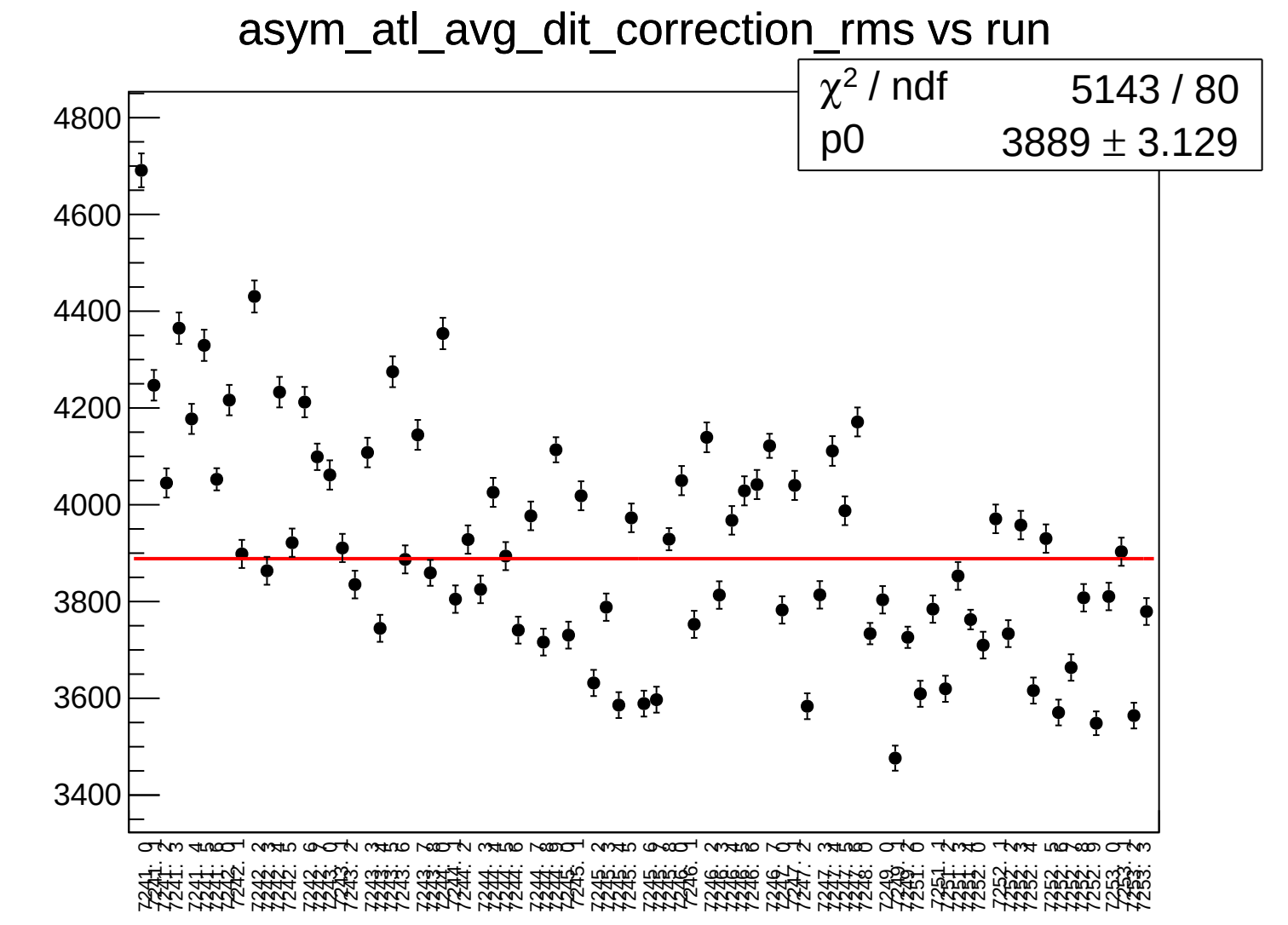

dit_asym_atl_avg_mean vs run
χ² / ndf 67.97 / 80
p0 1320 ± 1862
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −330.1
Std Dev 0
2
1
0
−1
−2

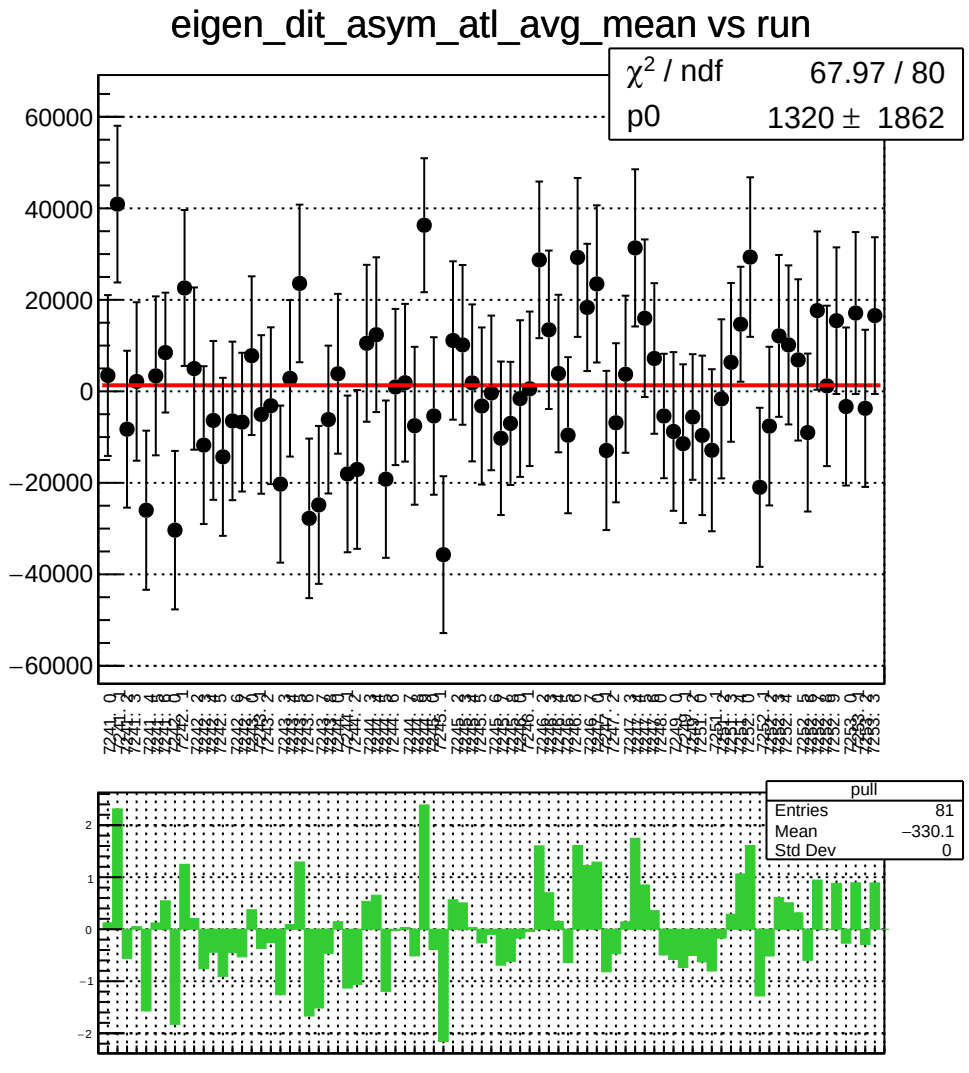

pull1D
Entries 81
Mean −0.01054
Std Dev 0.916
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

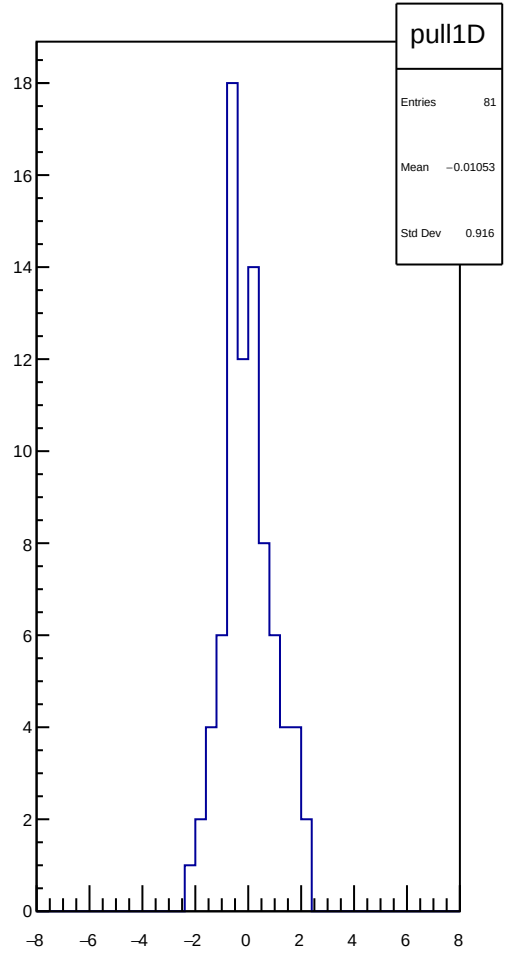

dit_asym_atl_avg_rms vs run
χ² / ndf 163.6 / 80
p0 1638 ± 1.316
1700
1680
1660
1640
1620
1600
1580

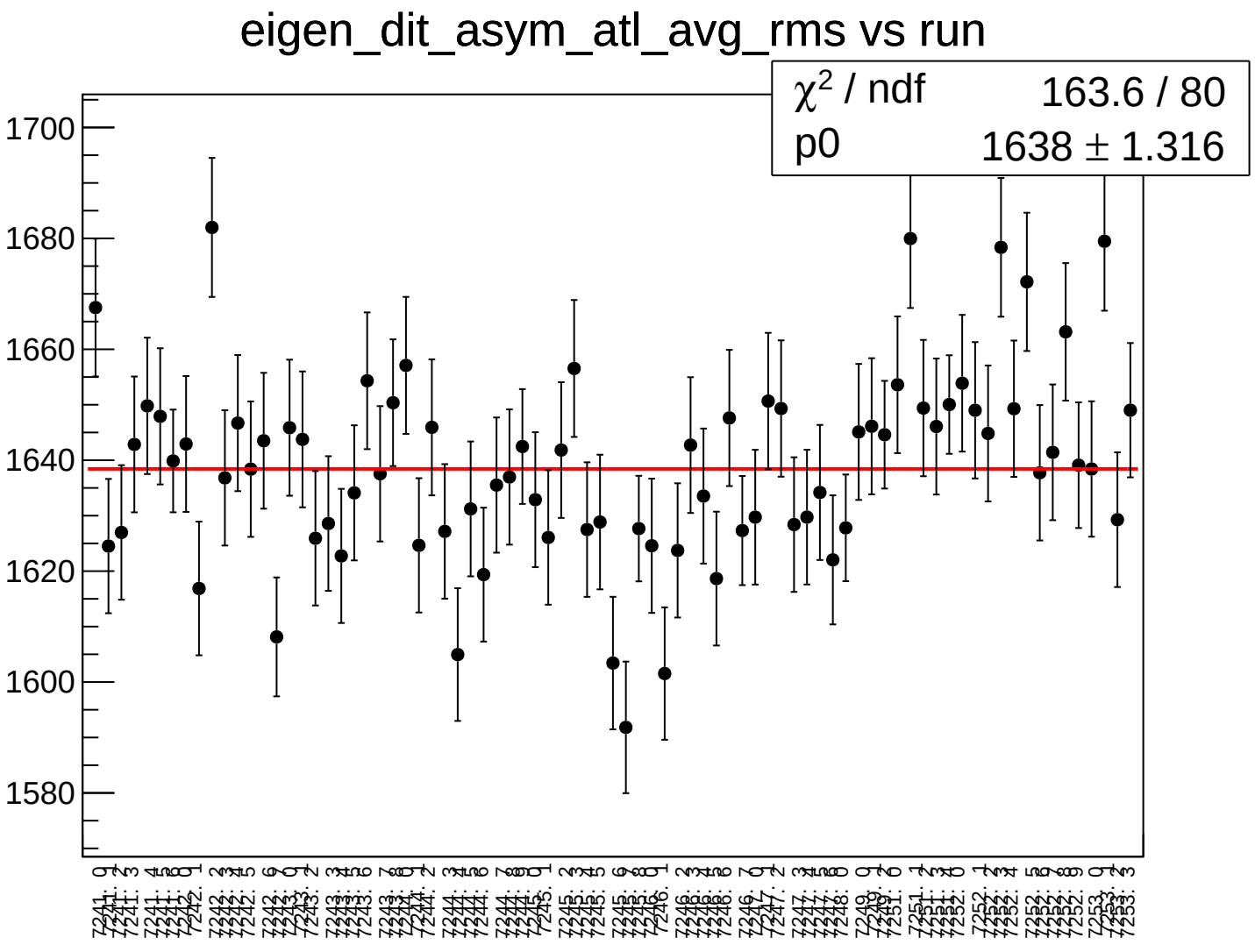

asym_atl_avg_dit_correction_mean vs run
×10^3
χ² / ndf 96.17 / 80
p0 −775.8 ± 4426
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean −92.91
Std Dev 0
2
1
0
−1
−2

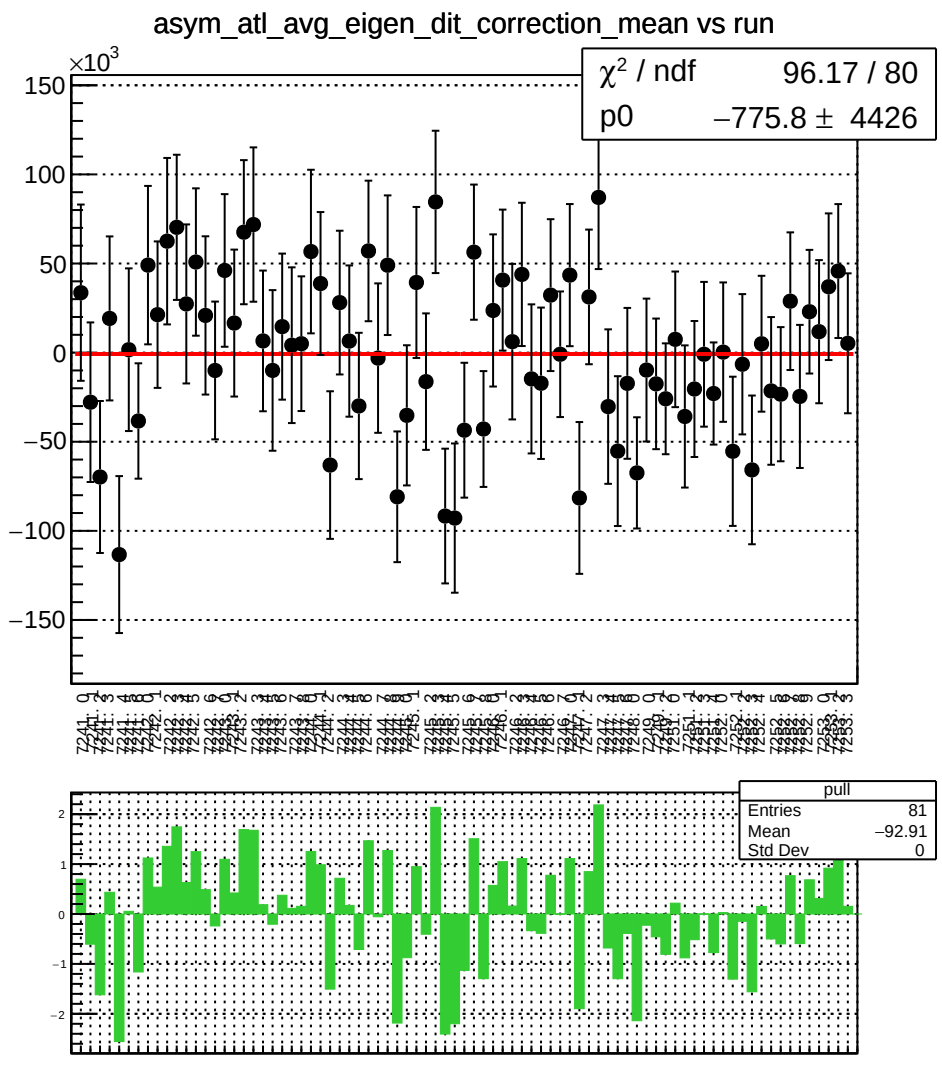

pull1D
Entries 81
Mean 0.0262
Std Dev 1.089
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

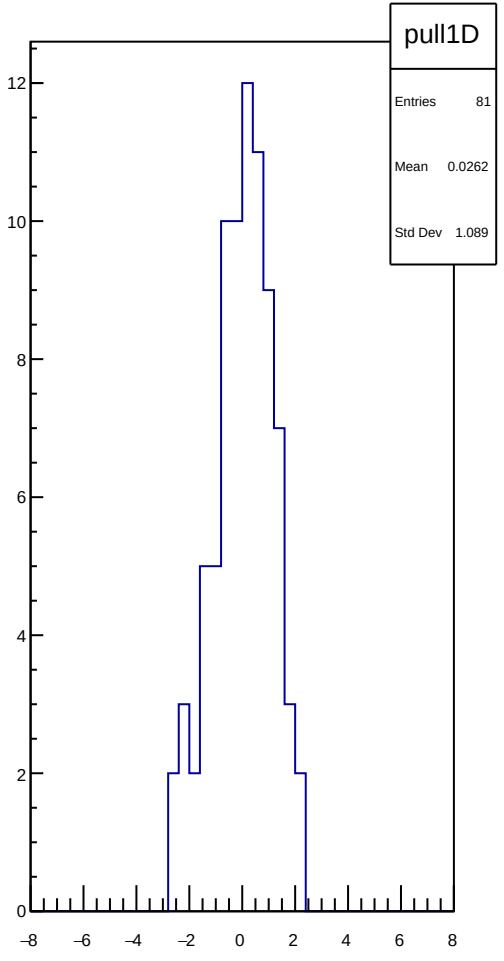

asym_atl_avg_dit_correction_rms vs run
χ² / ndf 5143 / 80
p0 3889 ± 3.129
4800
4600
4400
4200
4000
3800
3600
3400

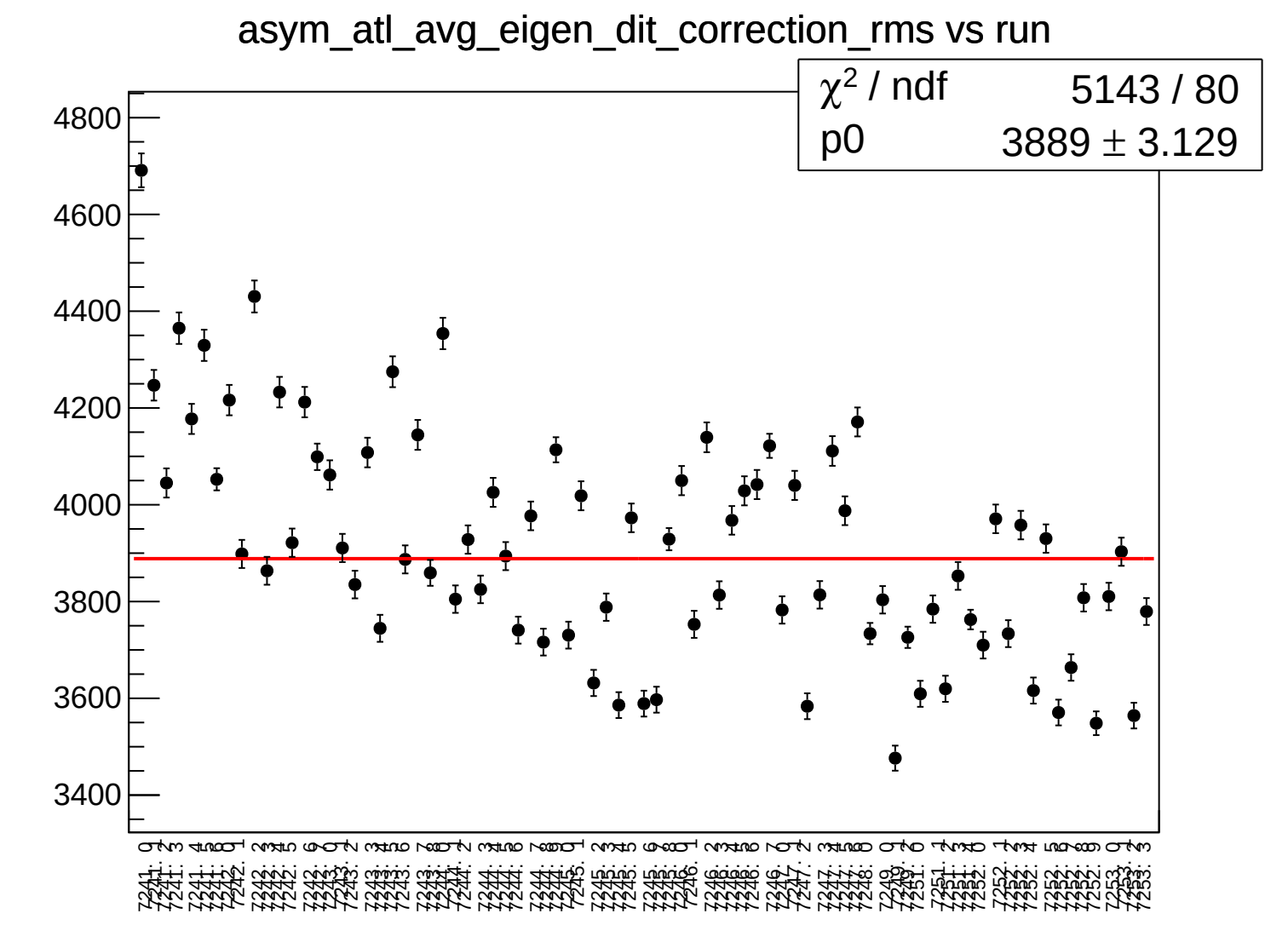

eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 67.97 / 80
p0 1320 ± 1862
pull
Entries 81
Mean −330.1
Std Dev 0

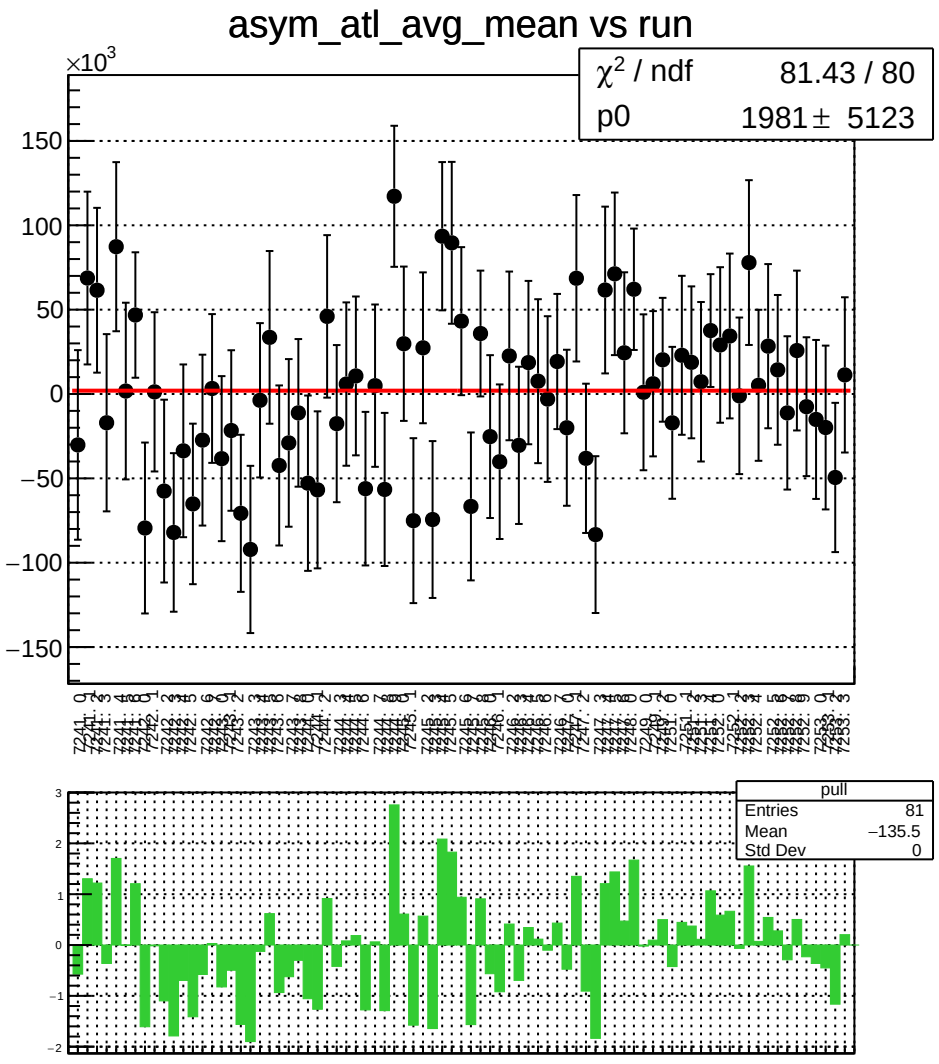

pull1D
Entries 81
Mean −0.01053
Std Dev 0.916

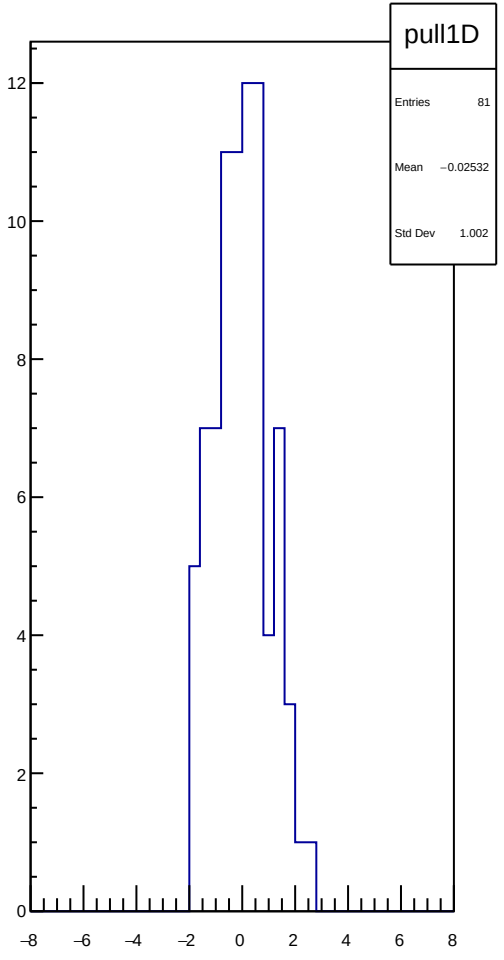

eigen_dit_asym_atl_avg_rms vs run
χ² / ndf 163.6 / 80
p0 1638 ± 1.316
1700
1680
1660
1640
1620
1600
1580

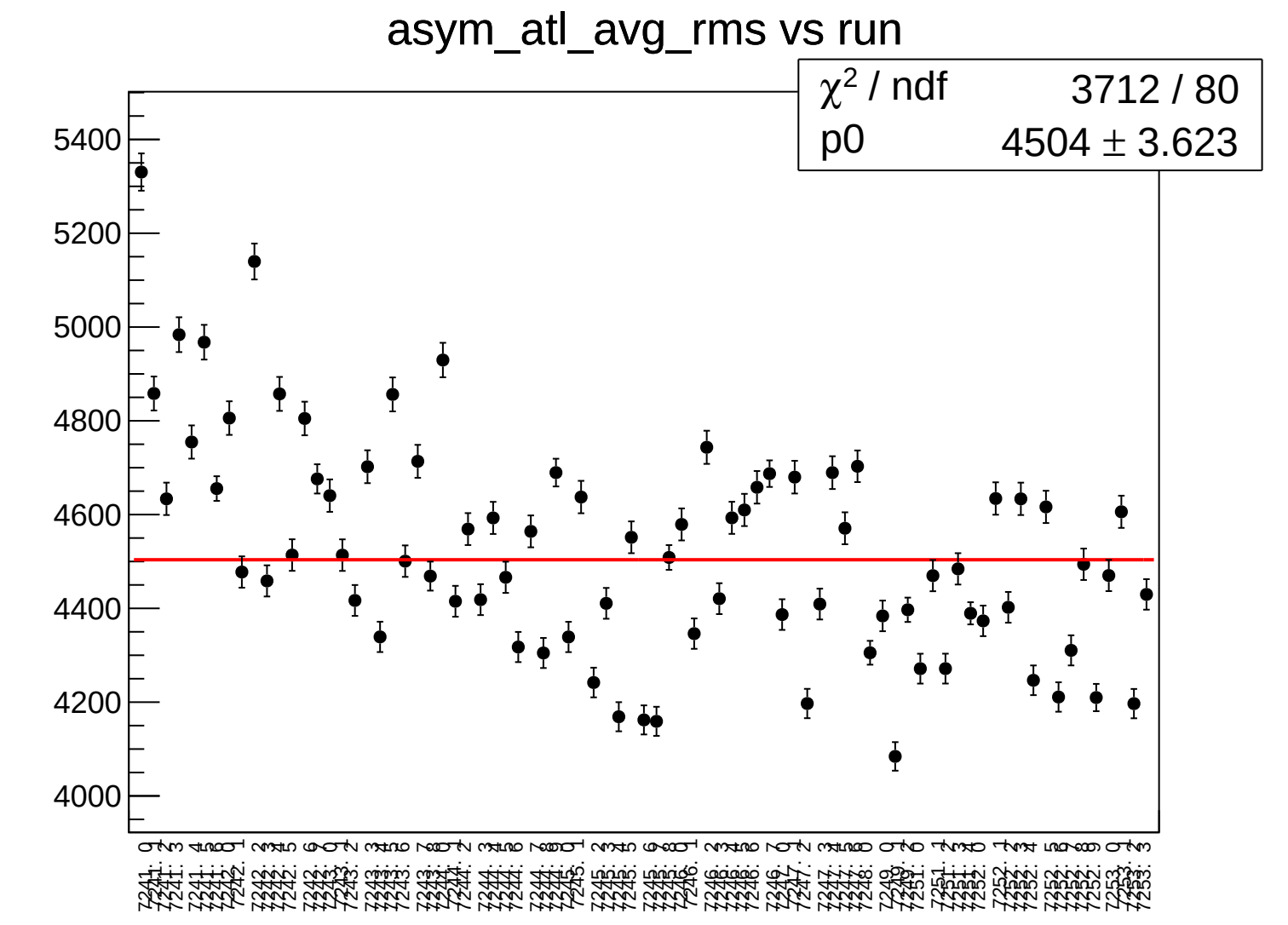

asym_atl_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.17 / 80
p0 −775.8 ± 4426
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean −92.91
Std Dev 0
2
1
0
−1
−2

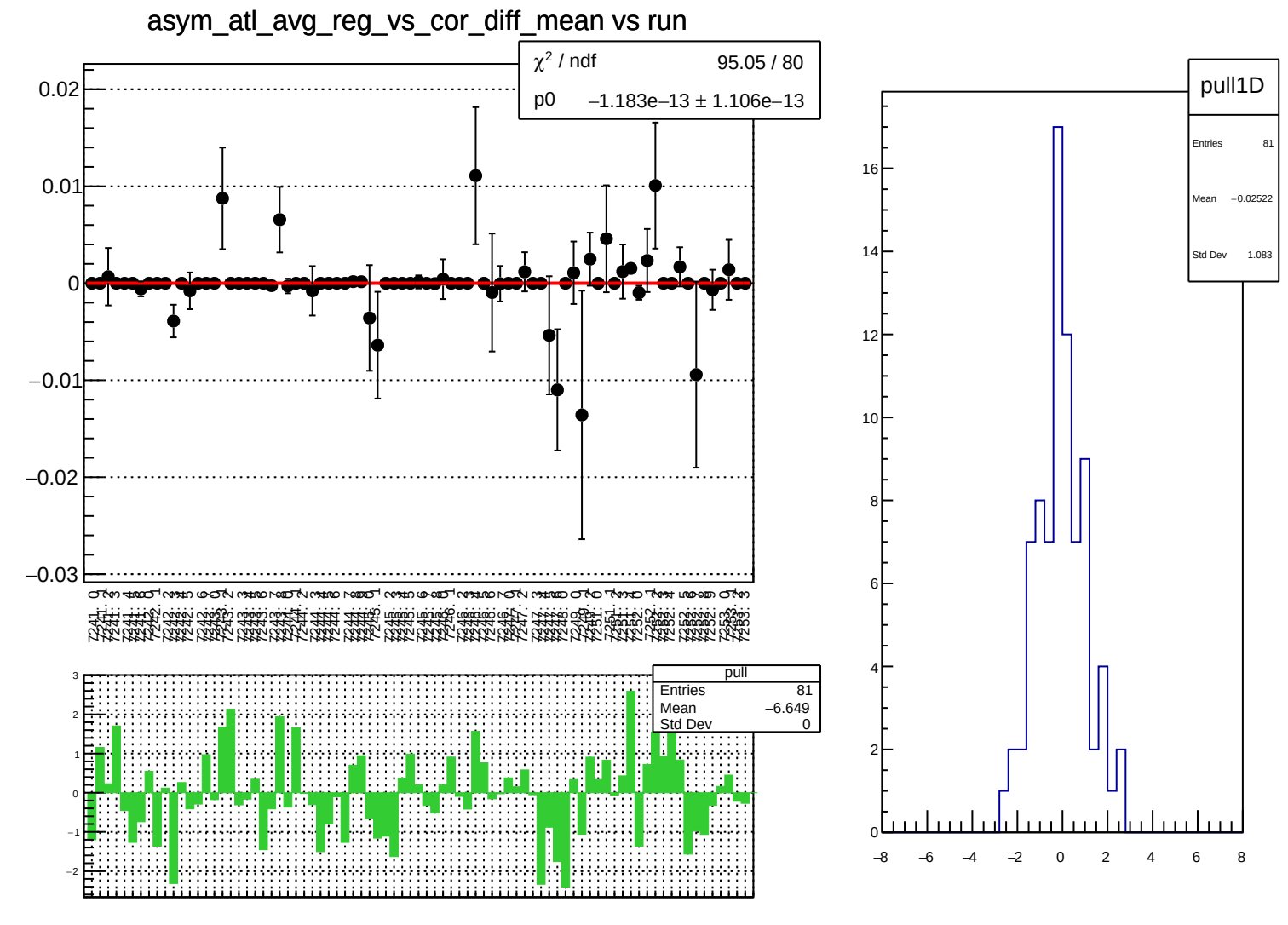

pull1D
Entries 81
Mean 0.0262
Std Dev 1.089
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

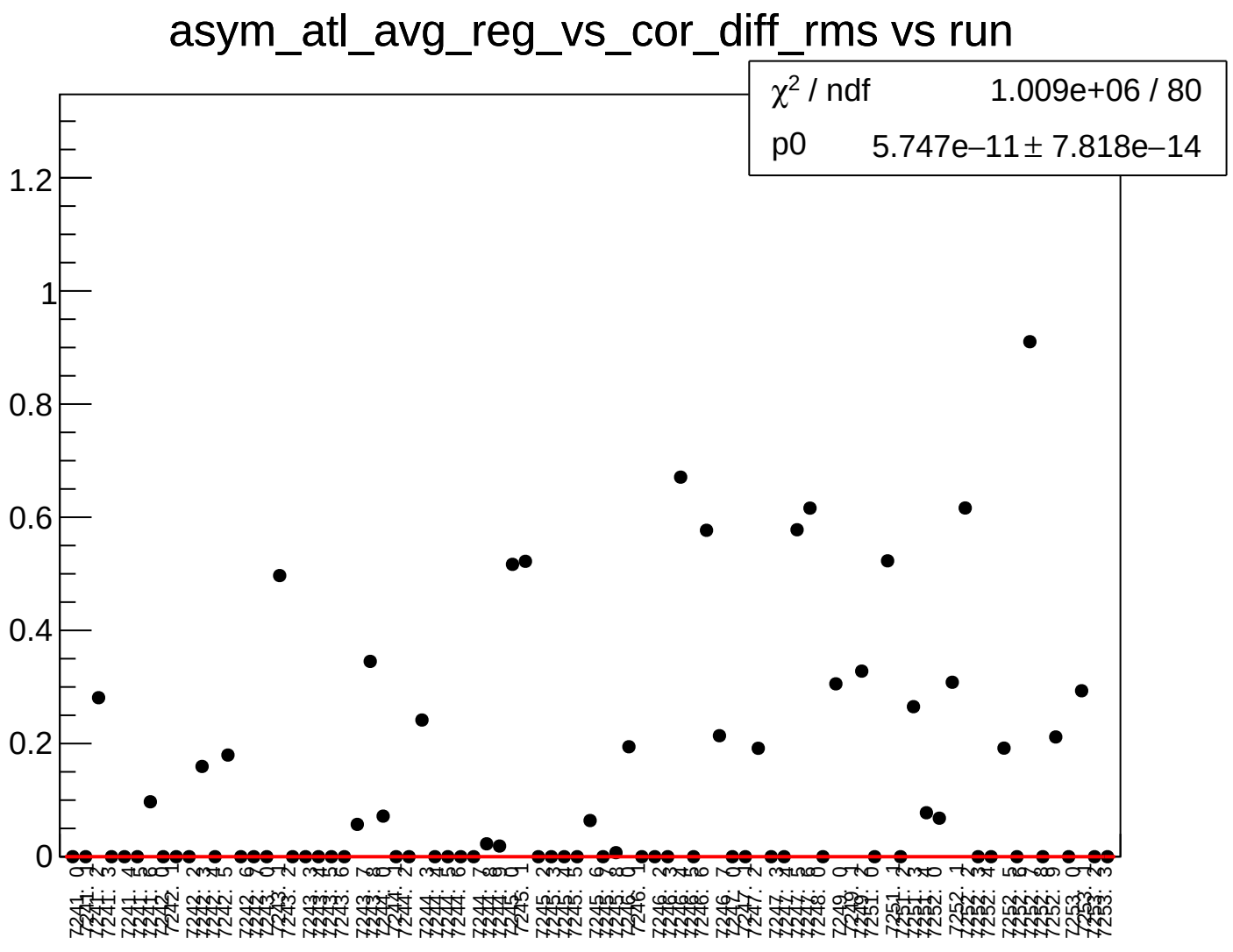

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 5143 / 80
p0 3889 ± 3.129
4800
4600
4400
4200
4000
3800
3600
3400

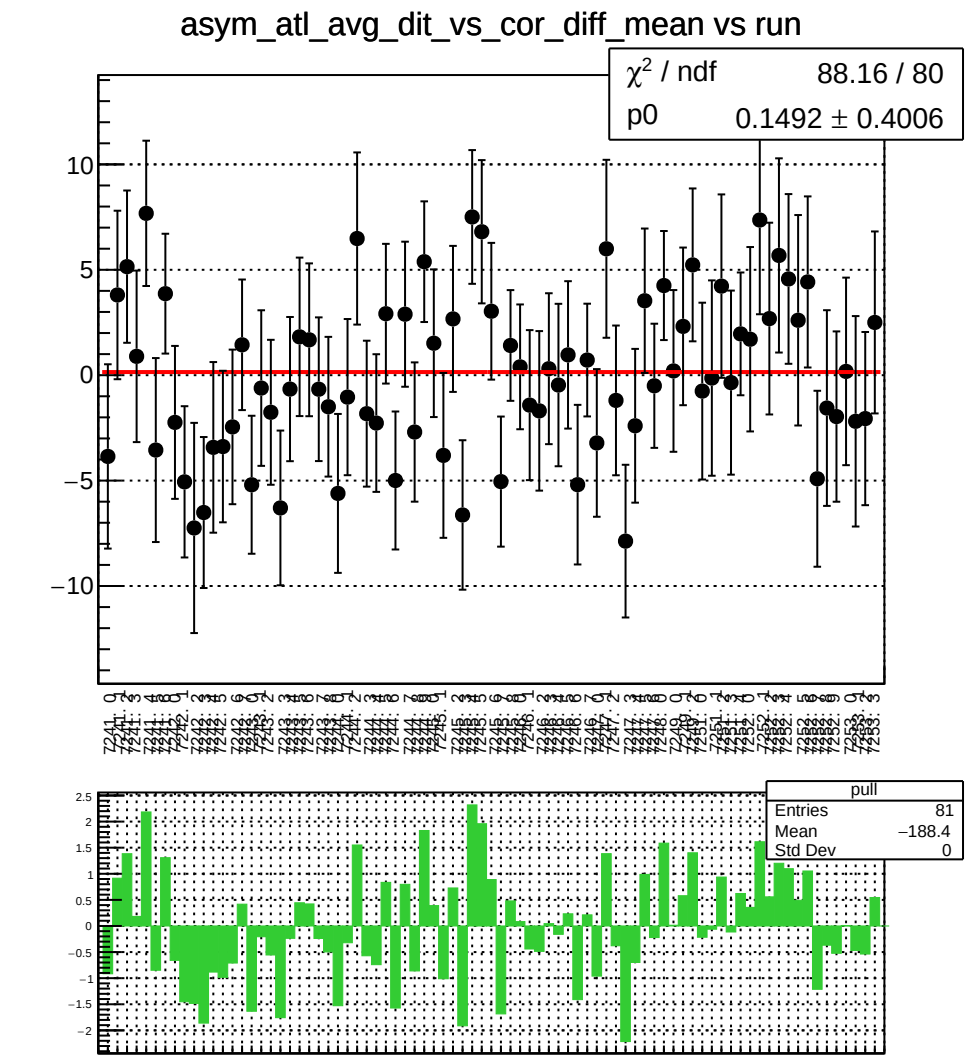

asym_atl_avg_mean vs run
×10^3
χ² / ndf 81.43 / 80
p0 1981 ± 5123
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean −135.5
Std Dev 0
3
2
1
0
−1
−2

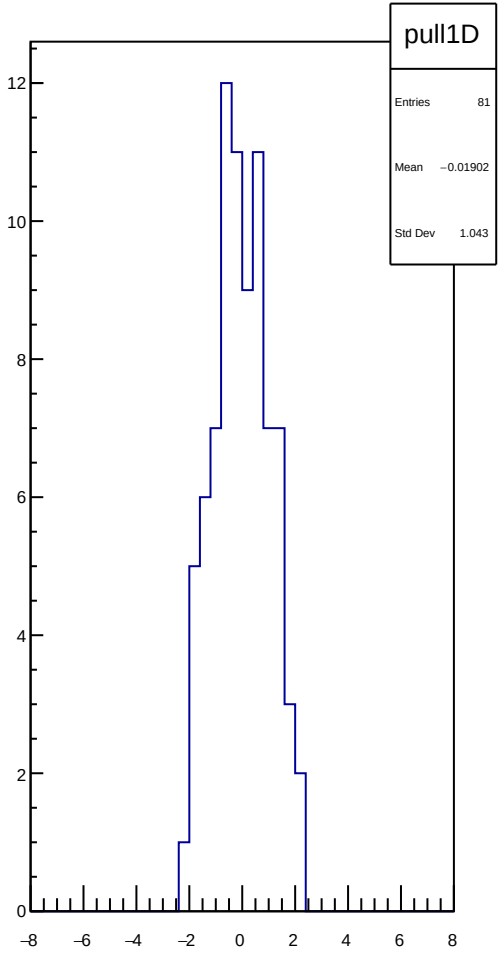

pull1D
Entries 81
Mean −0.02532
Std Dev 1.002
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

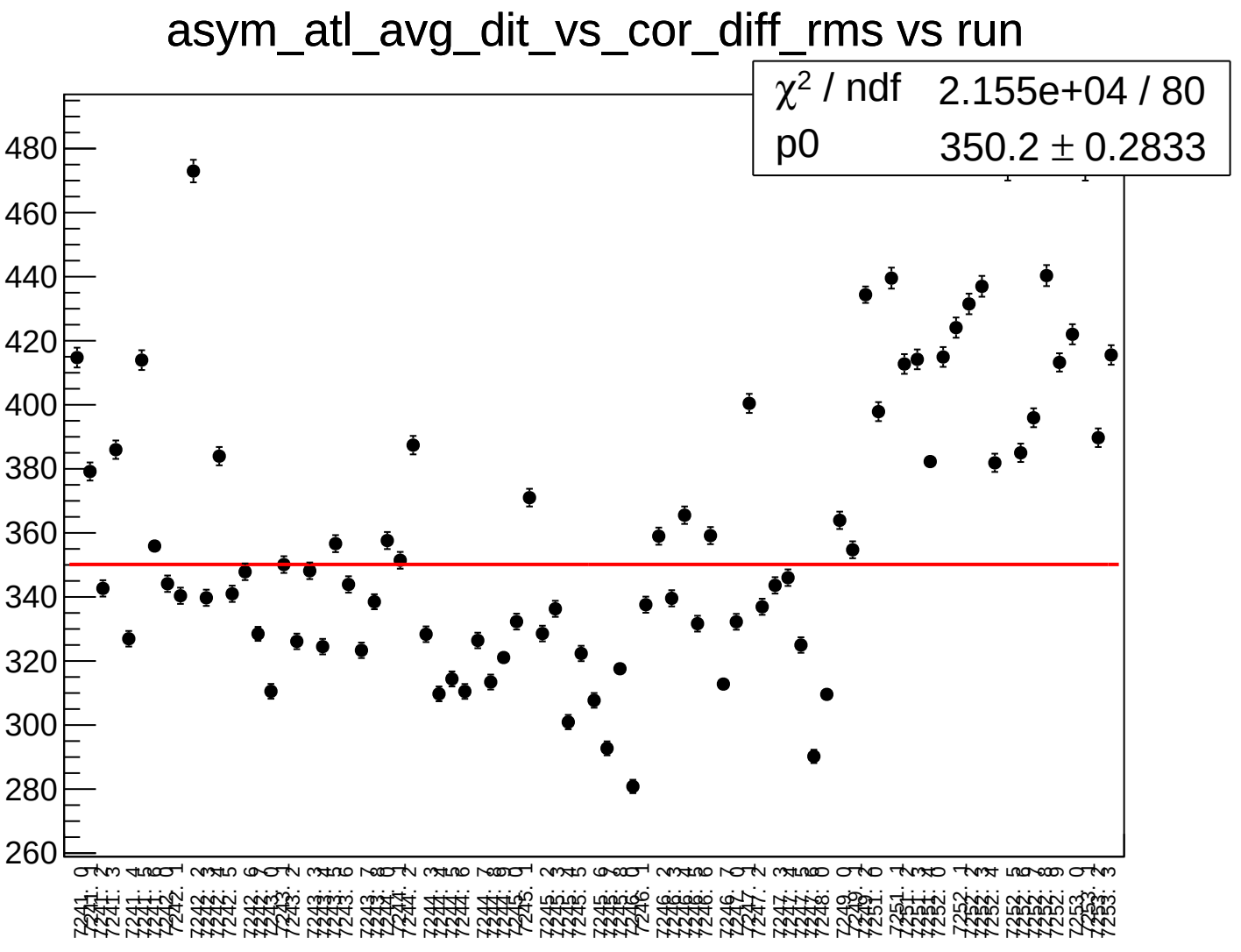

asym_atl_avg_rms vs run
χ^2 / ndf 3712 / 80
p0 4504 ± 3.623
5400
5200
5000
4800
4600
4400
4200
4000

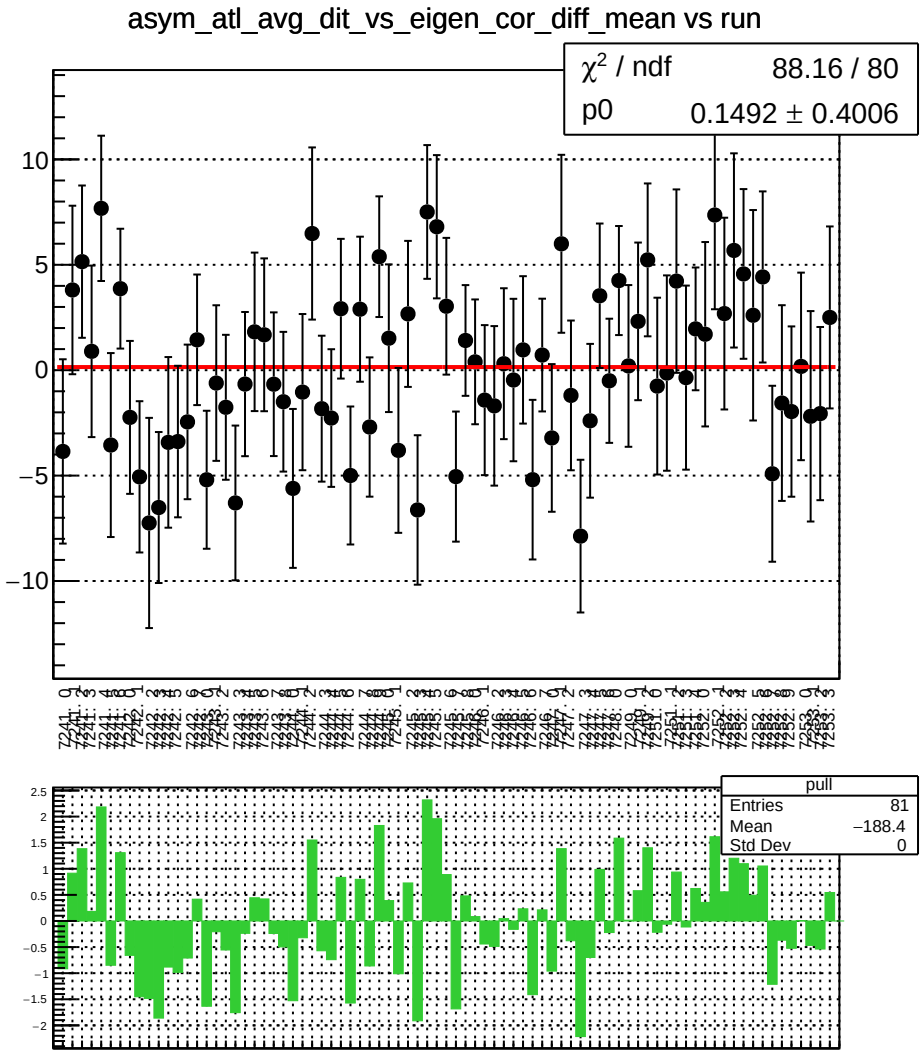

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 95.05 / 80
p0 −1.183e−13 ± 1.106e−13
pull
Entries 81
Mean −6.649
Std Dev 0
pull1D
Entries 81
Mean −0.02522
Std Dev 1.083

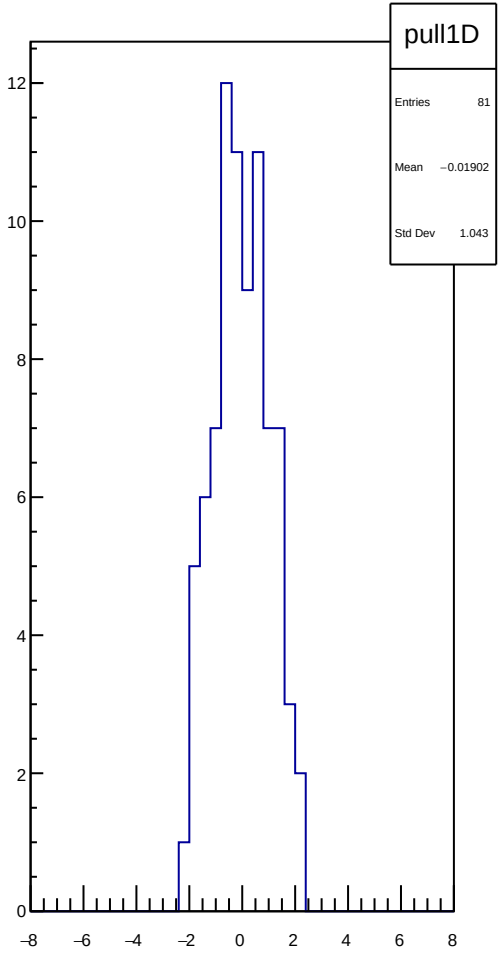

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.009e+06 / 80
p0 5.747e−11 ± 7.818e−14
1.2
1
0.8
0.6
0.4
0.2
0

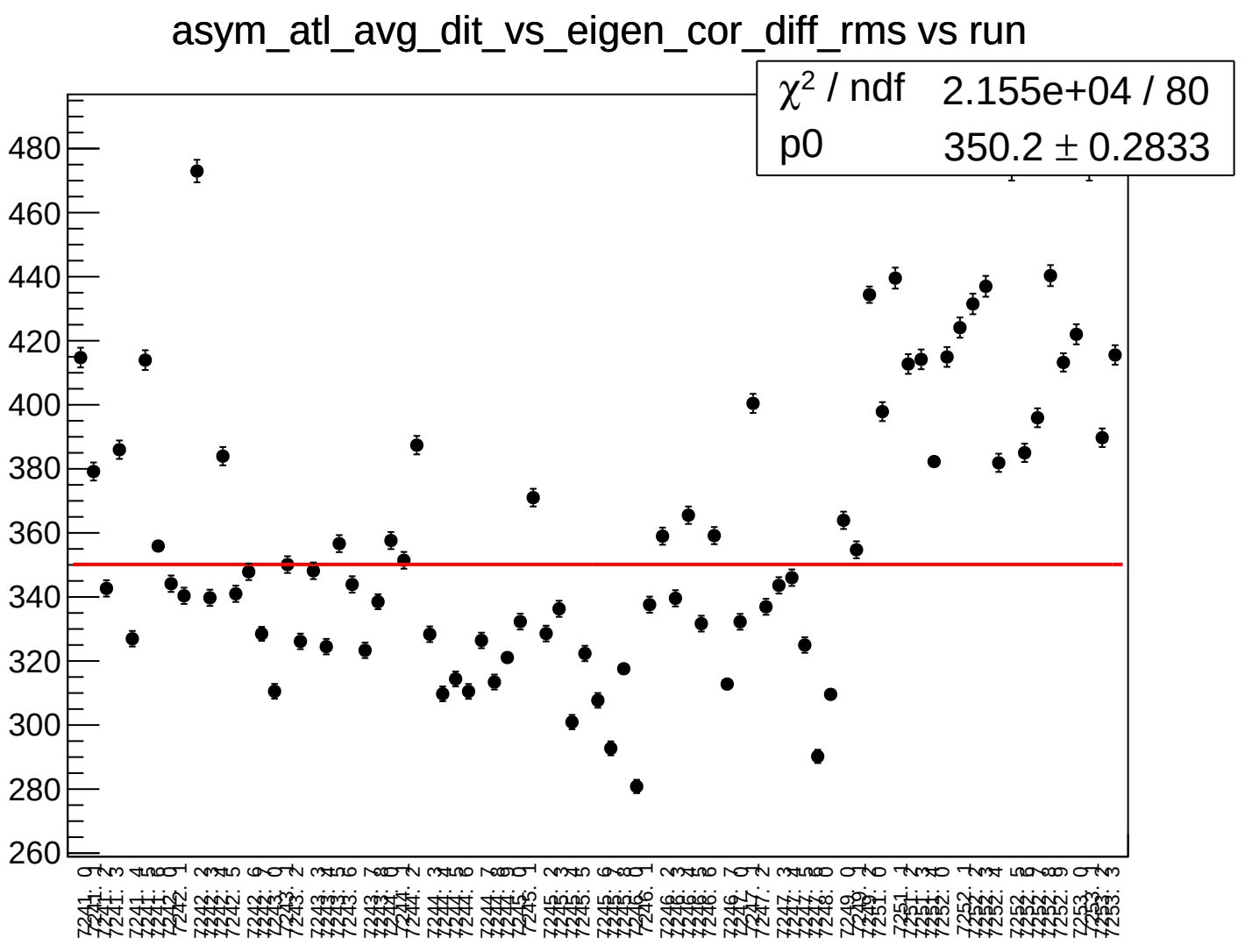

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 88.16 / 80
p0 0.1492 ± 0.4006
pull
Entries 81
Mean −188.4
Std Dev 0

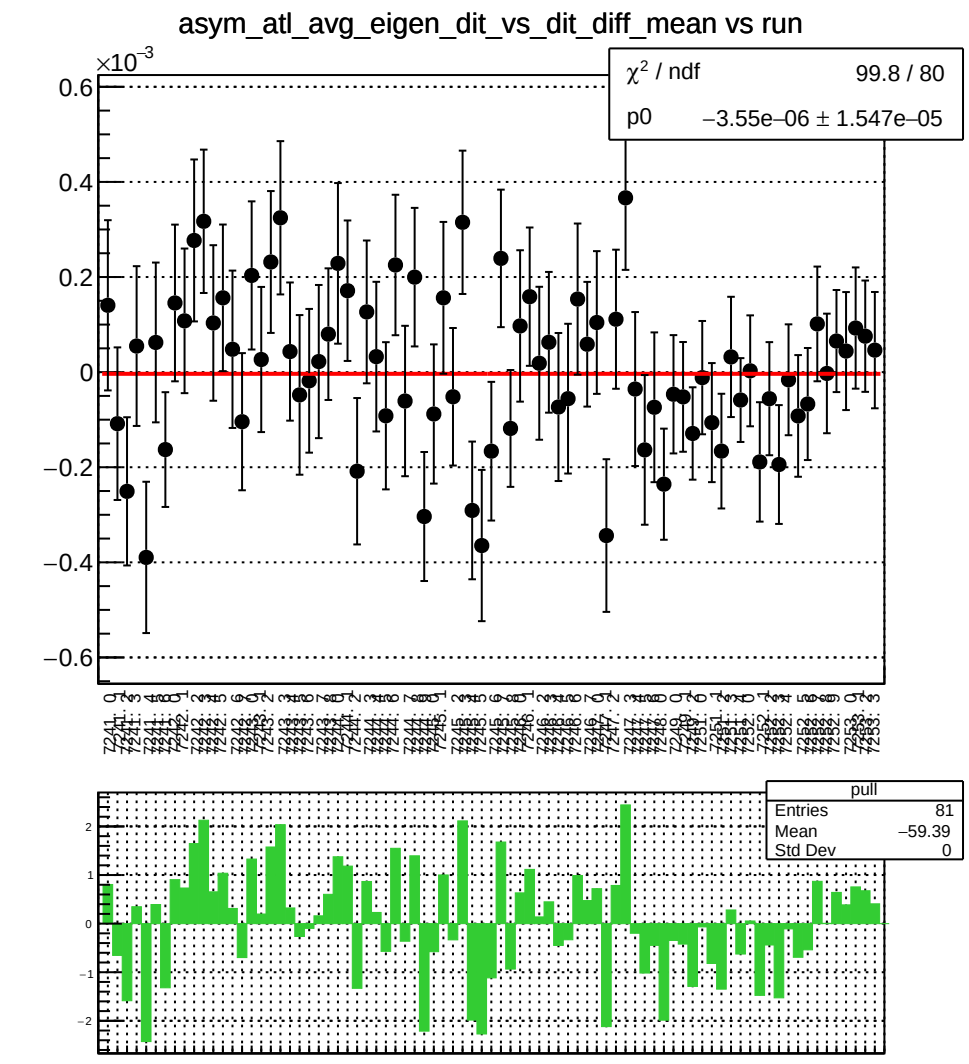

pull1D
Entries 81
Mean −0.01902
Std Dev 1.043

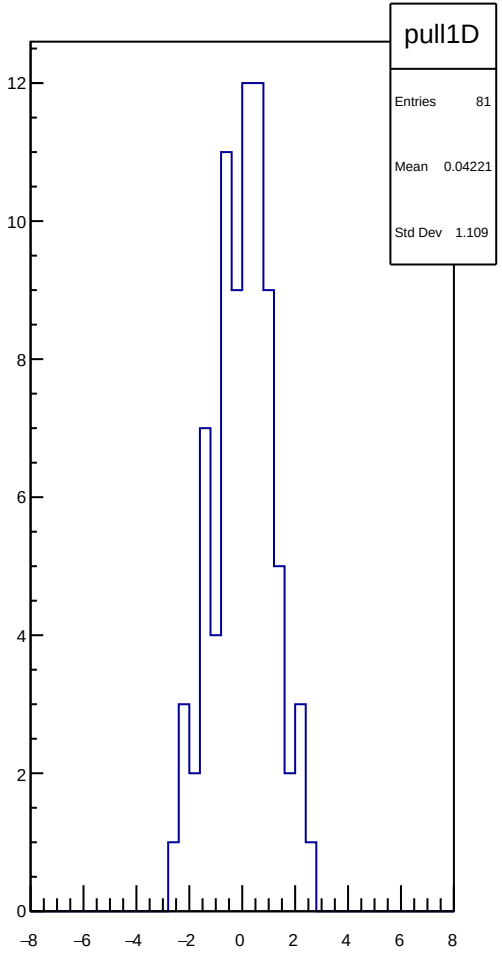

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.155e+04 / 80
p0 350.2 ± 0.2833
480
460
440
420
400
380
360
340
320
300
280
260

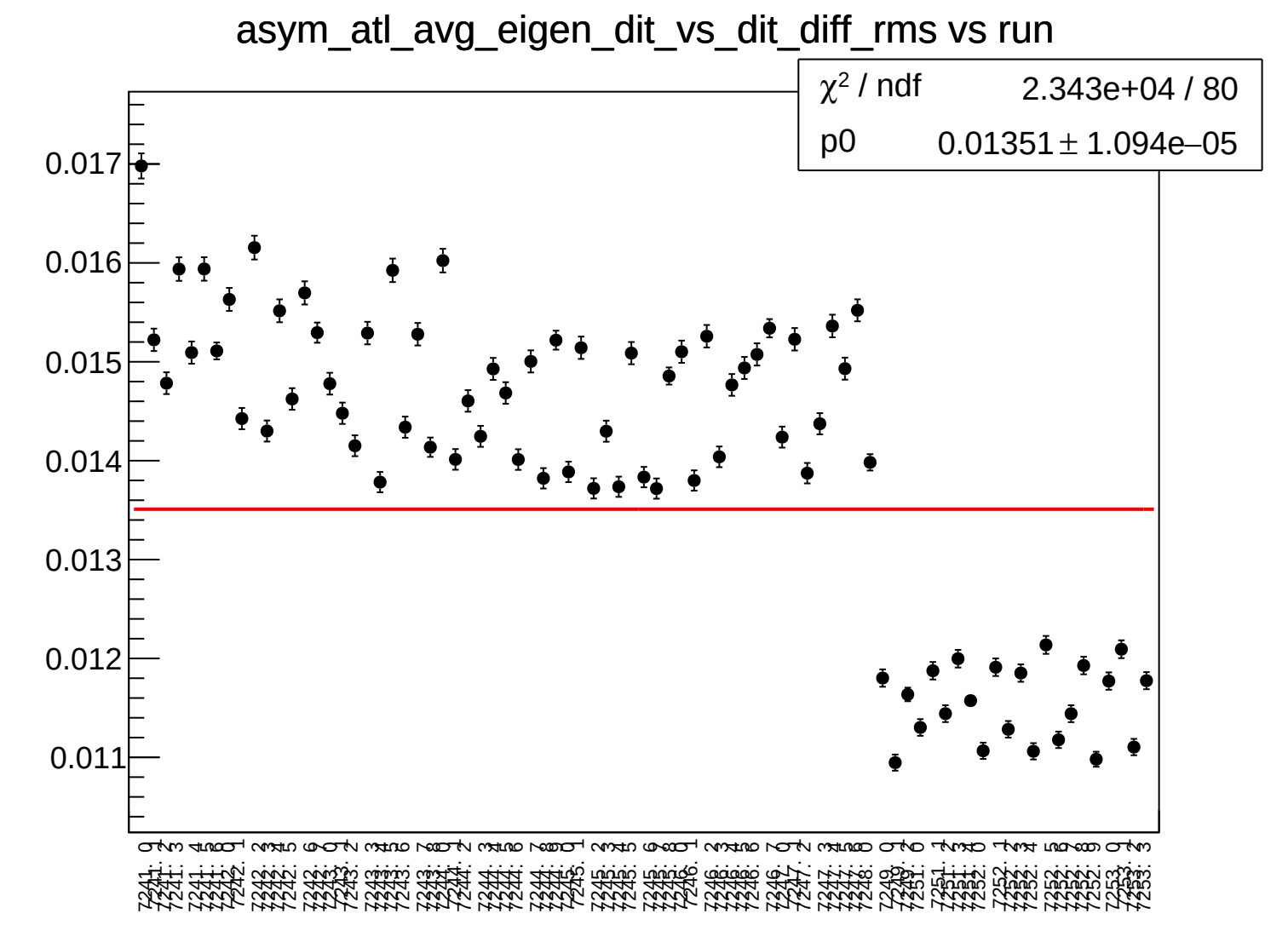

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.16 / 80
p0 0.1492 ± 0.4006
pull
Entries 81
Mean −188.4
Std Dev 0

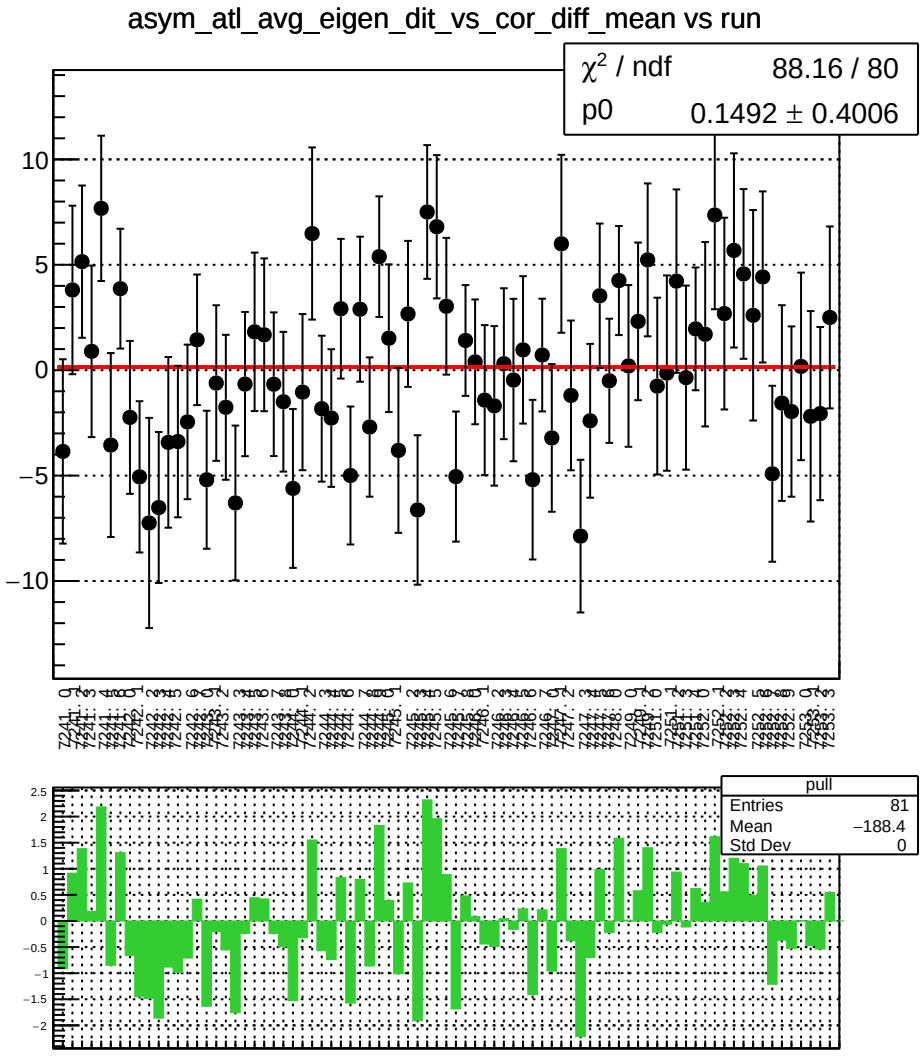

pull1D
Entries 81
Mean −0.01902
Std Dev 1.043

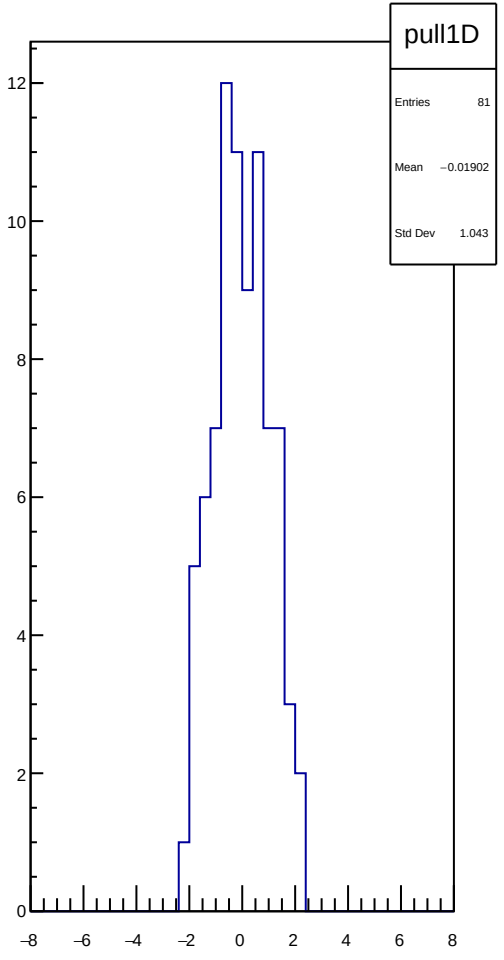

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.155e+04 / 80
p0 350.2 ± 0.2833
480
460
440
420
400
380
360
340
320
300
280
260

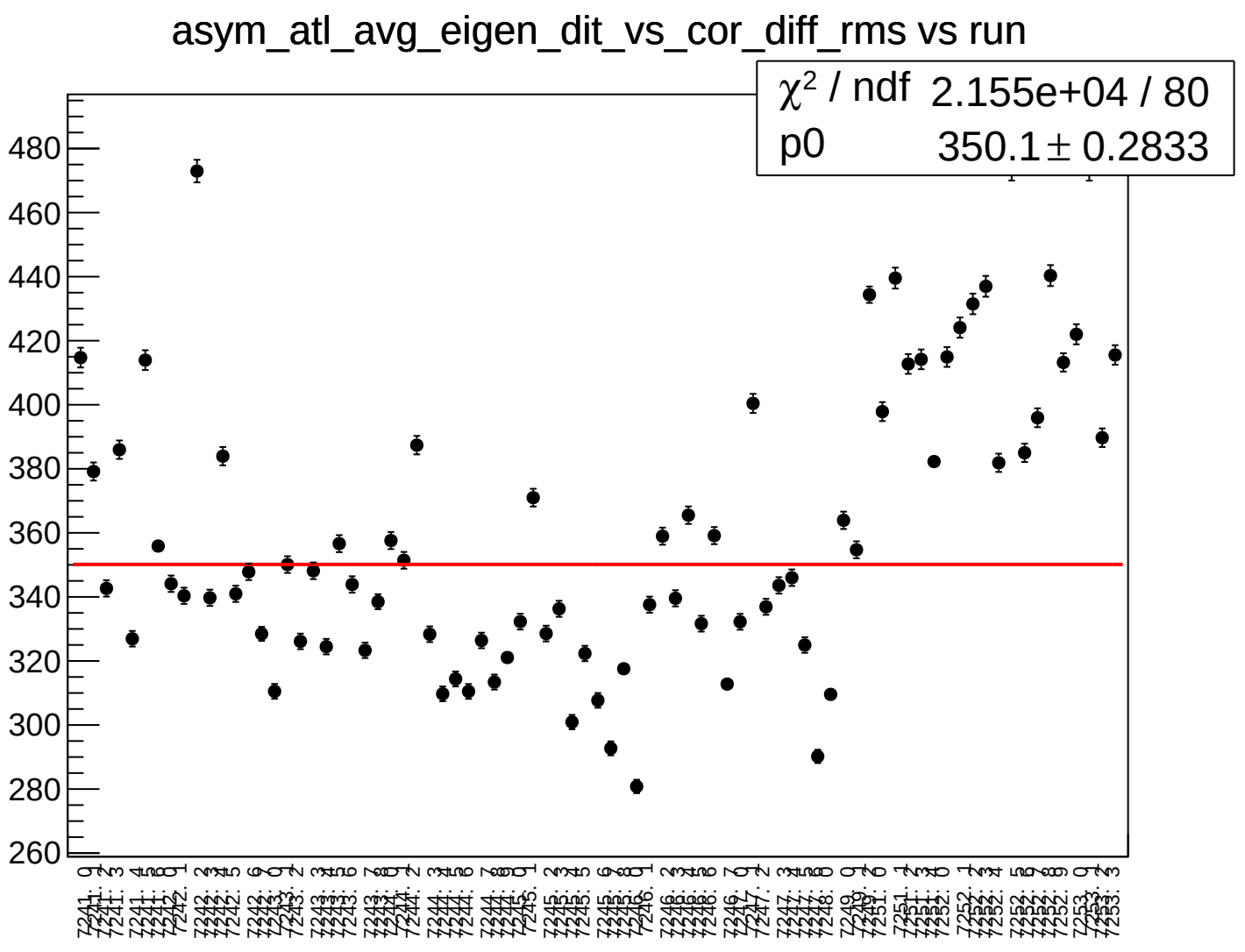

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.8 / 80
p0 −3.55e−06 ± 1.547e−05
pull
Entries 81
Mean −59.39
Std Dev 0

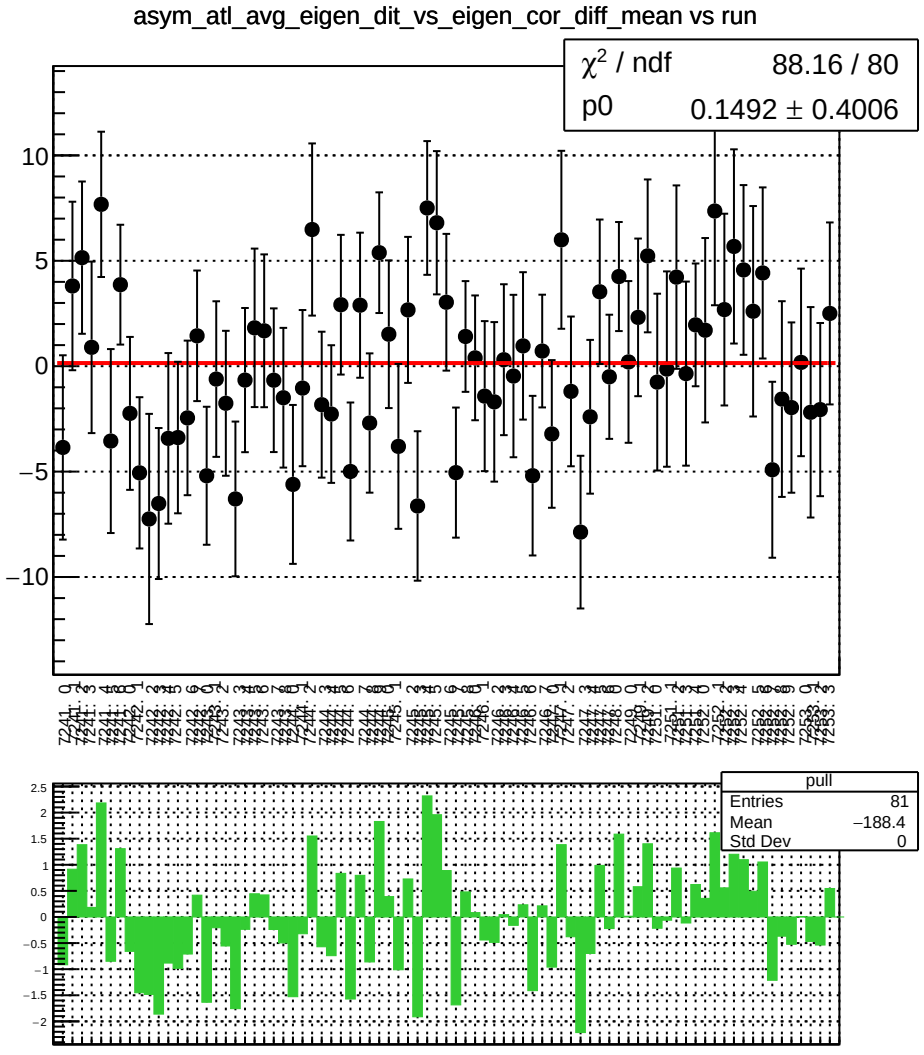

pull1D
Entries 81
Mean 0.04221
Std Dev 1.109

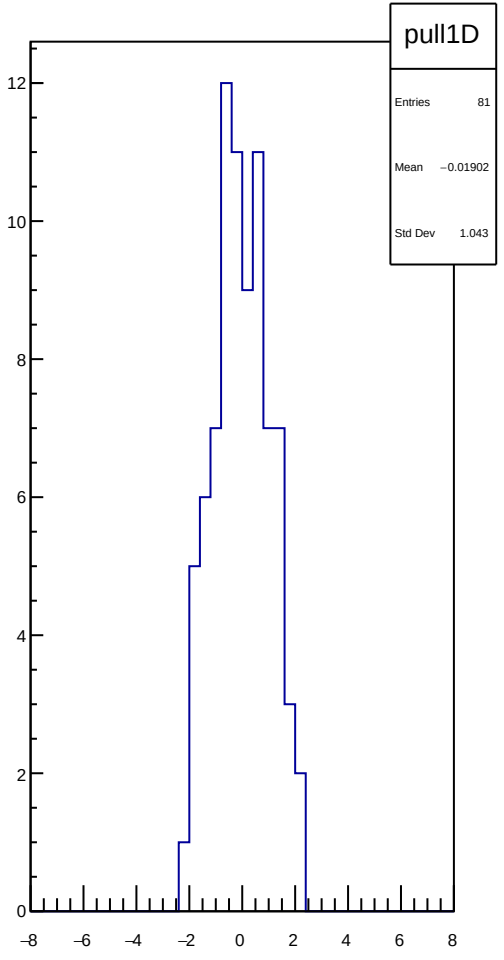

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.343e+04 / 80
p0 0.01351 ± 1.094e–05
0.017
0.016
0.015
0.014
0.013
0.012
0.011

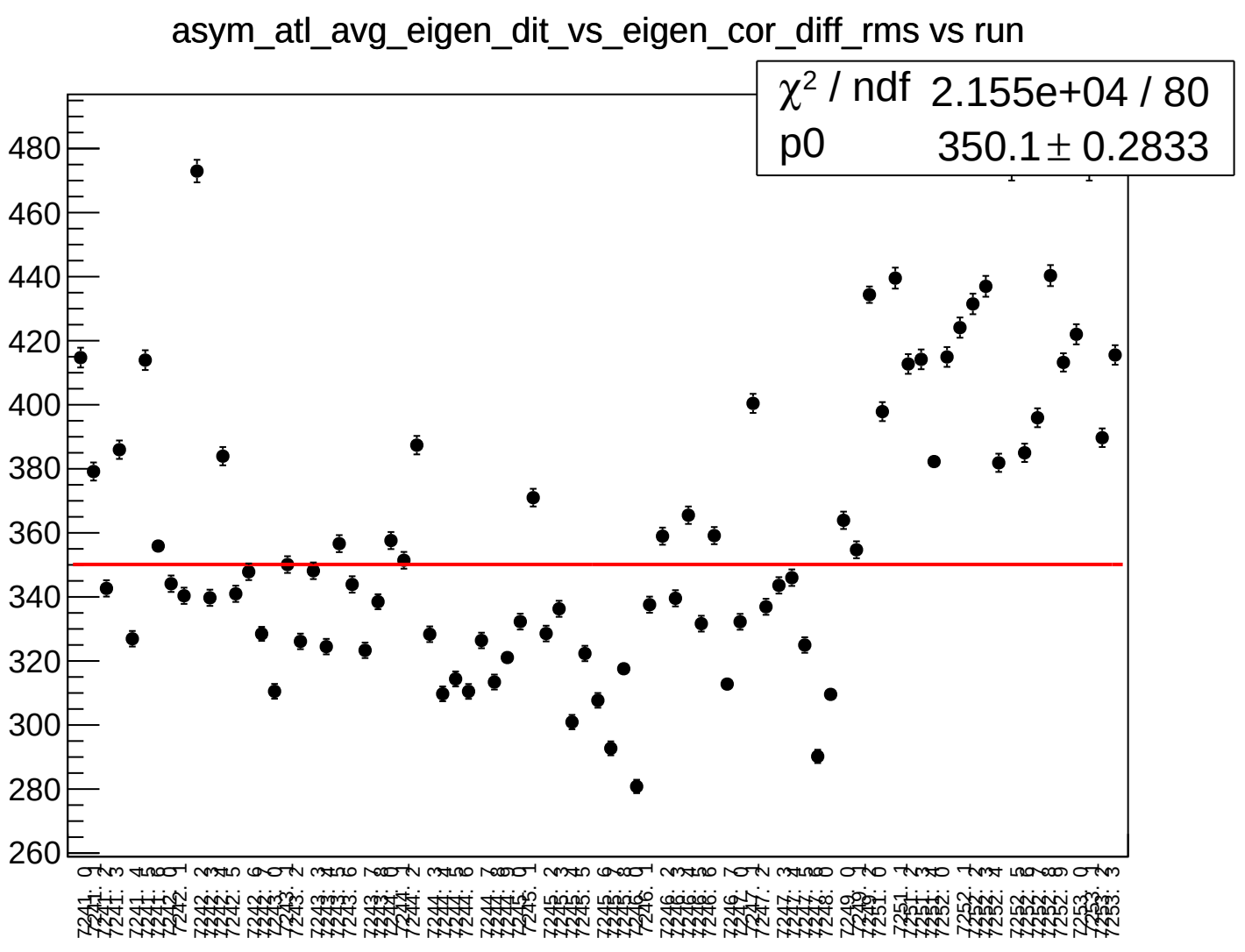

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.16 / 80
p0 0.1492 ± 0.4006
pull
Entries 81
Mean −188.4
Std Dev 0

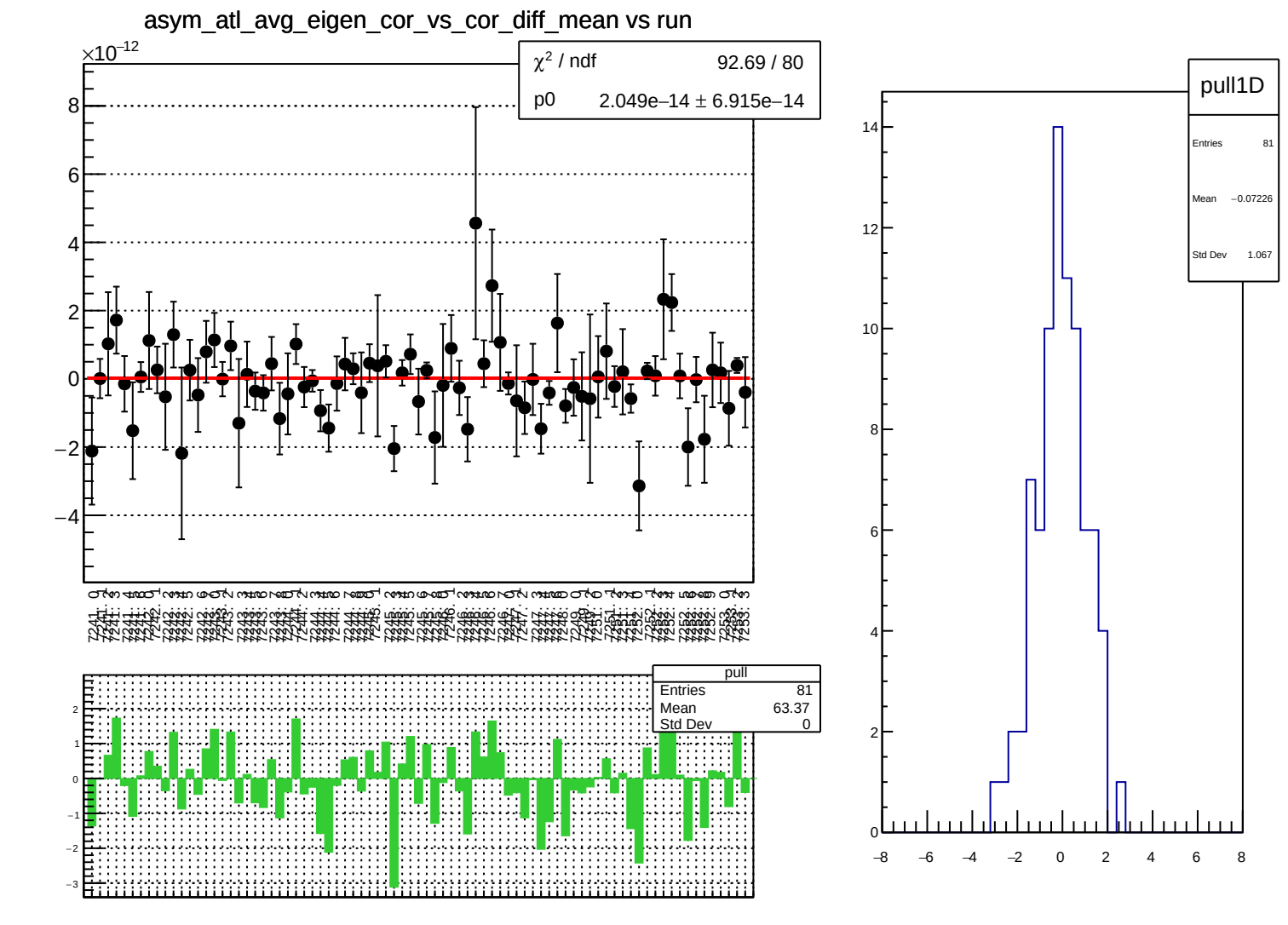

pull1D
Entries 81
Mean −0.01902
Std Dev 1.043

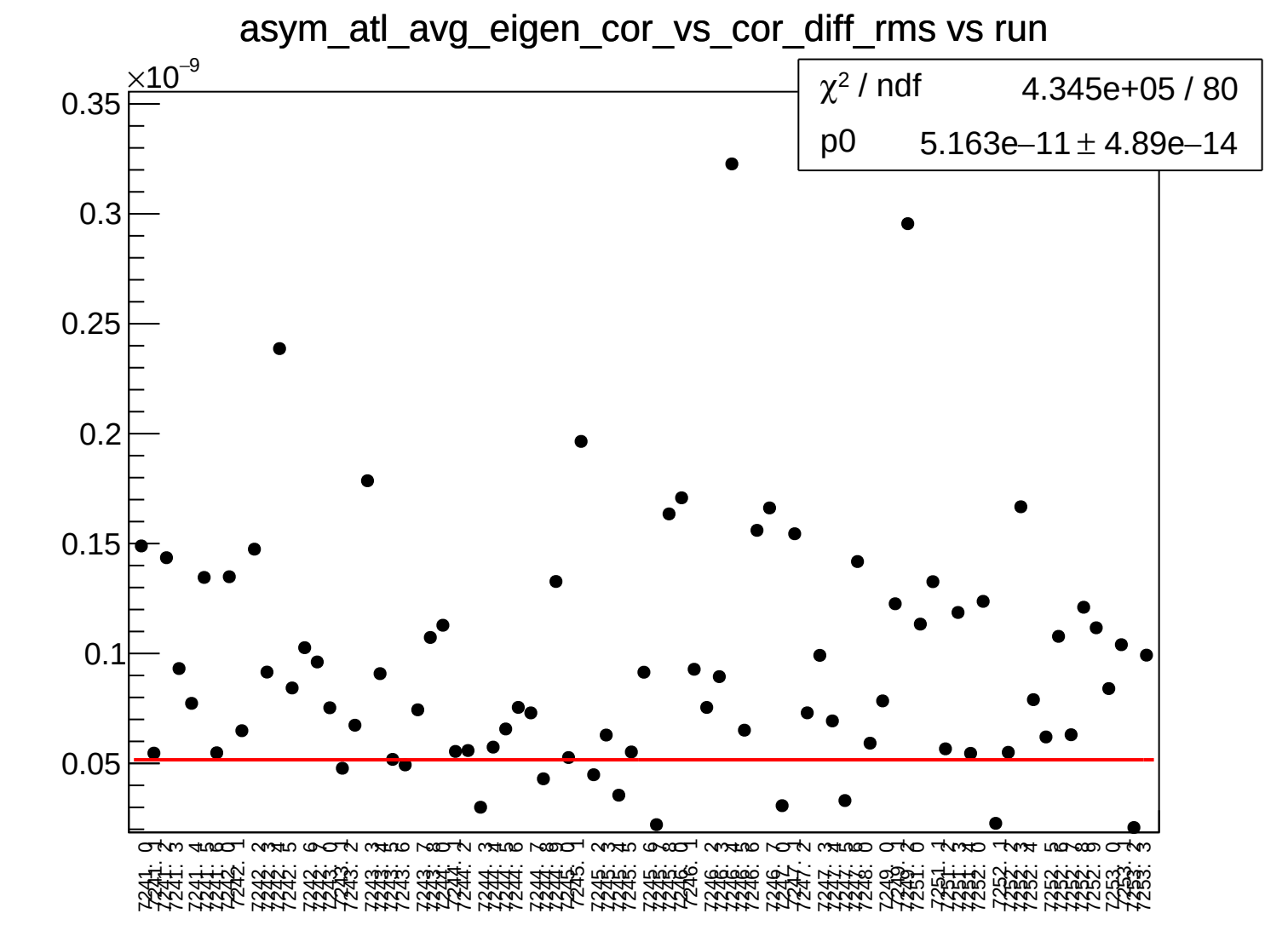

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.155e+04 / 80
p0 350.1 ± 0.2833
480
460
440
420
400
380
360
340
320
300
280
260

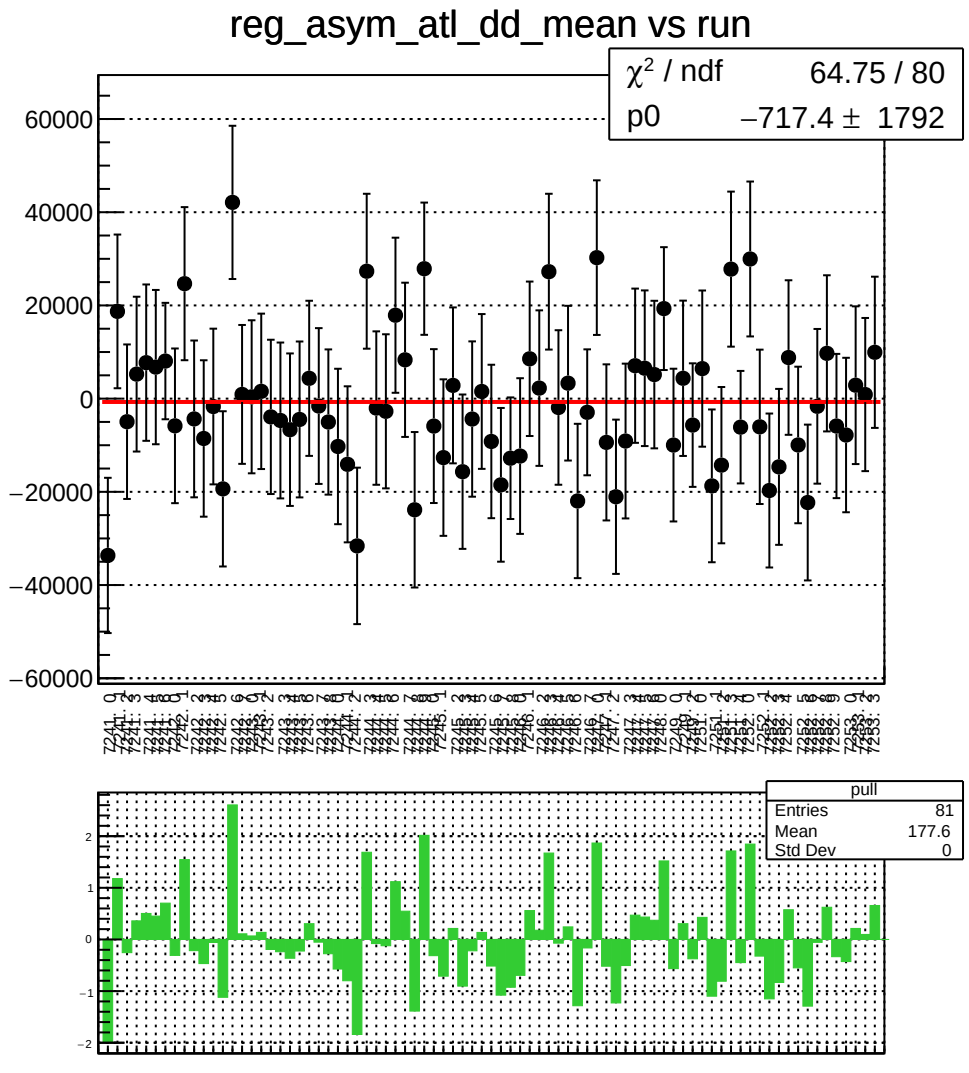

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.16 / 80
p0 0.1492 ± 0.4006
pull
Entries 81
Mean −188.4
Std Dev 0

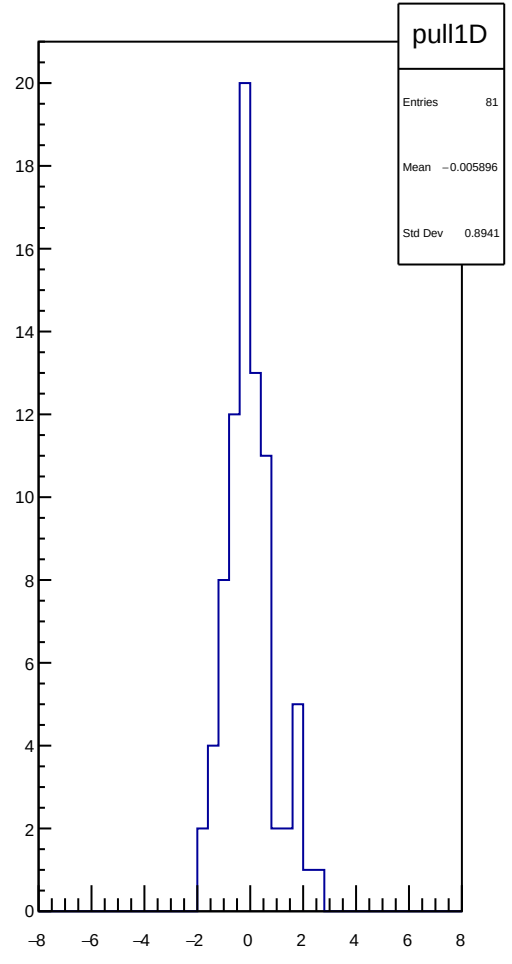

pull1D
Entries 81
Mean −0.01902
Std Dev 1.043

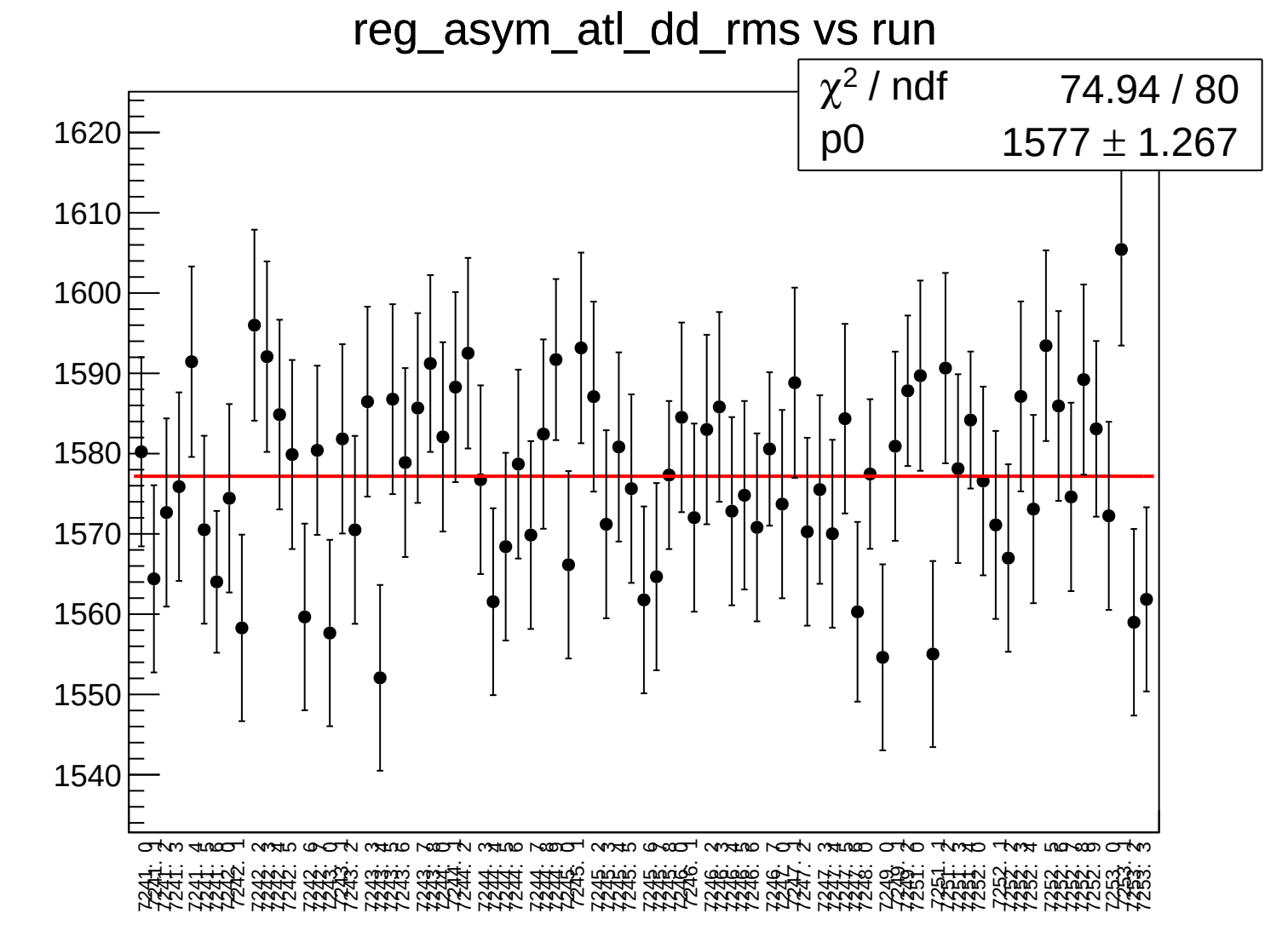

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.155e+04 / 80
p0 350.1 ± 0.2833
480
460
440
420
400
380
360
340
320
300
280
260

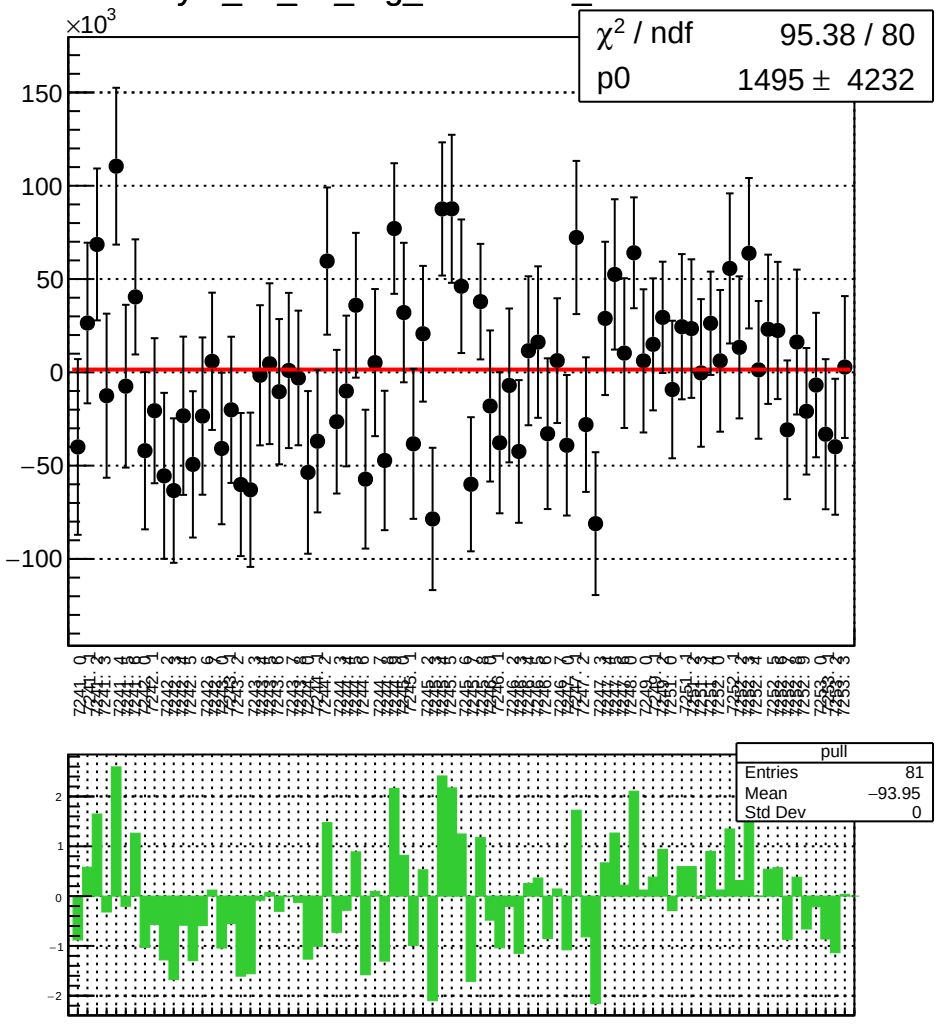

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.69 / 80
p0 2.049e−14 ± 6.915e−14
pull
Entries 81
Mean 63.37
Std Dev 0
pull1D
Entries 81
Mean −0.07226
Std Dev 1.067

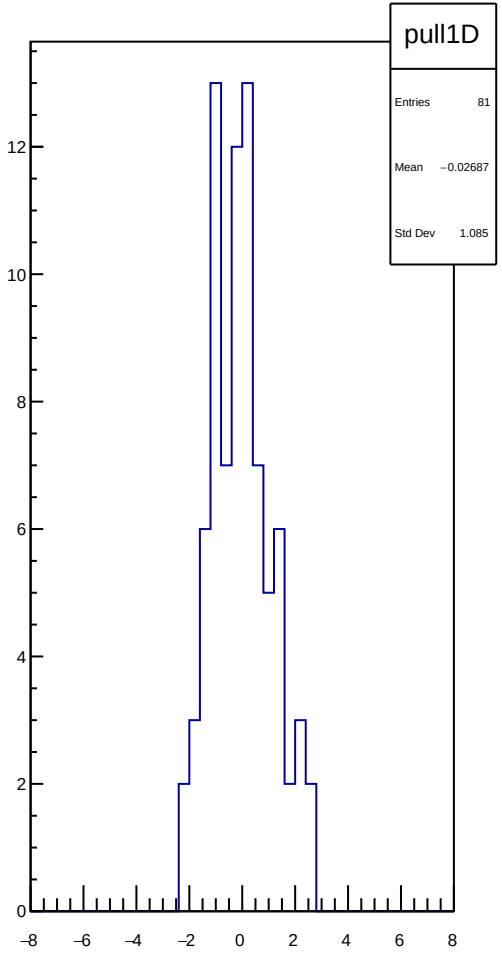

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.345e+05 / 80
p0 5.163e−11 ± 4.89e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

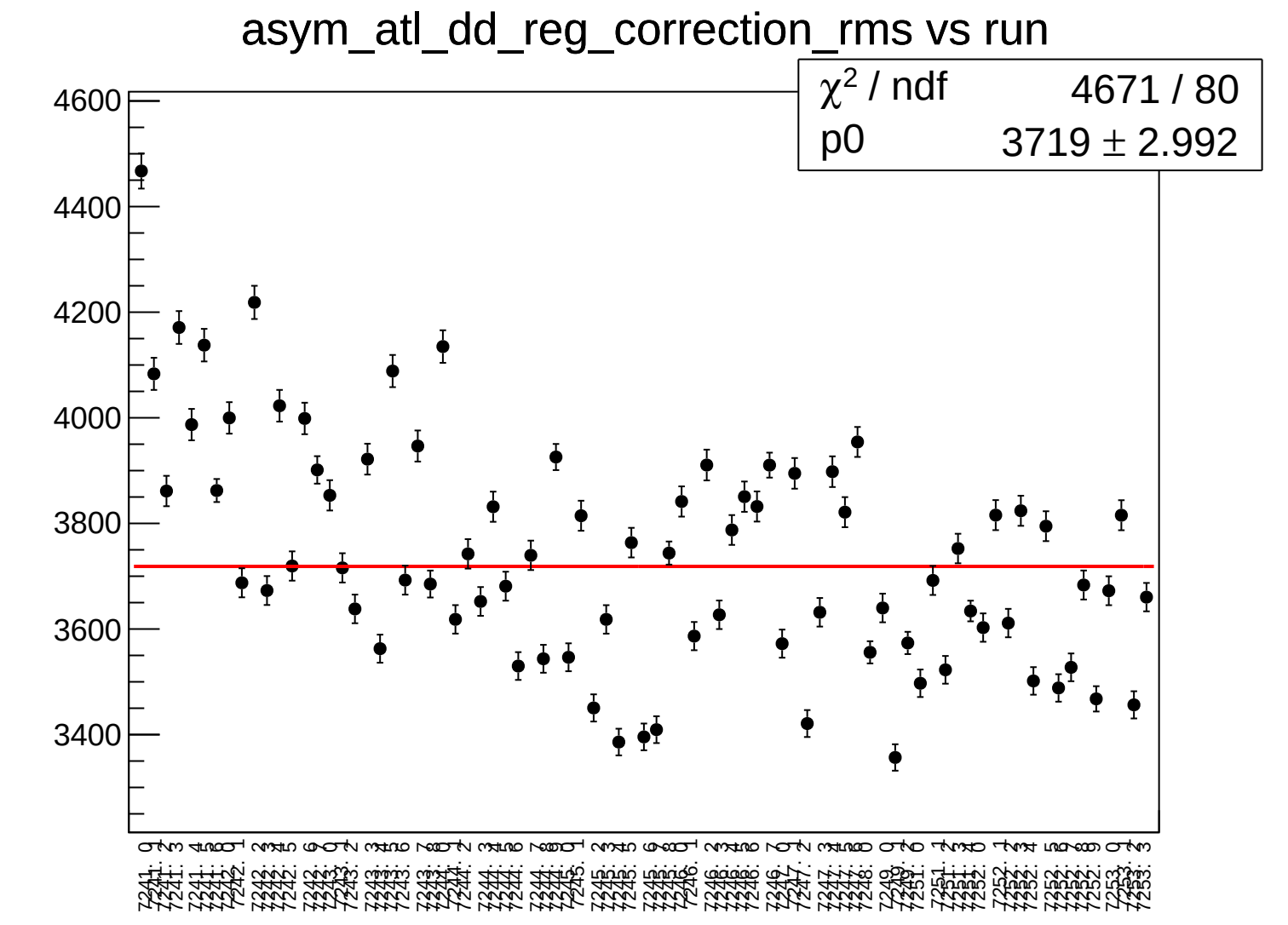

reg_asym_atl_dd_mean vs run
χ² / ndf 64.75 / 80
p0 −717.4 ± 1792
pull
Entries 81
Mean 177.6
Std Dev 0

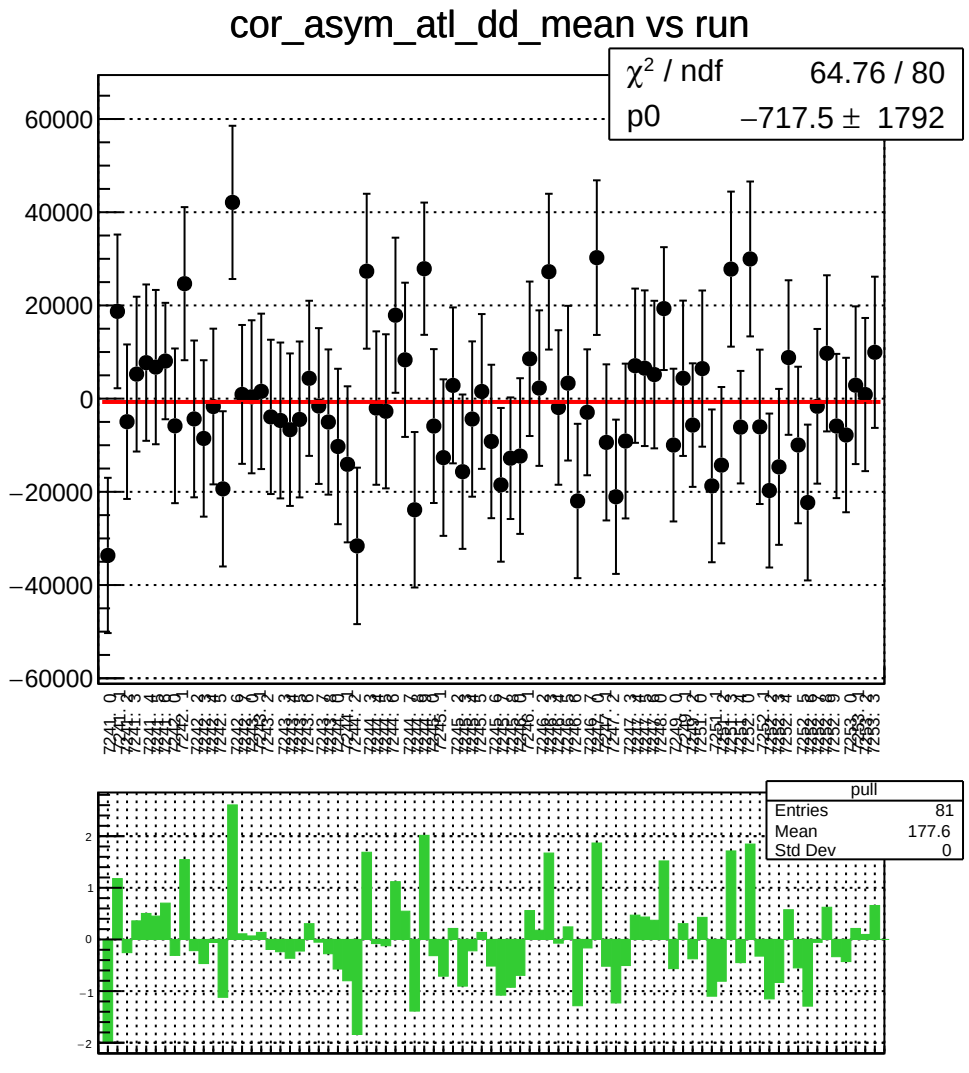

pull1D
Entries 81
Mean −0.005896
Std Dev 0.8941

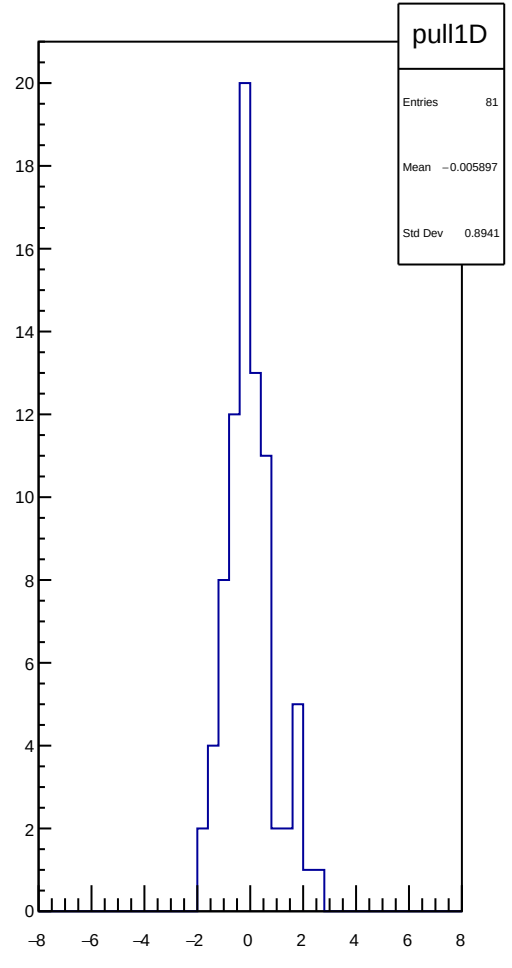

reg_asym_atl_dd_rms vs run
χ^2 / ndf 74.94 / 80
p0 1577 ± 1.267
1620
1610
1600
1590
1580
1570
1560
1550
1540

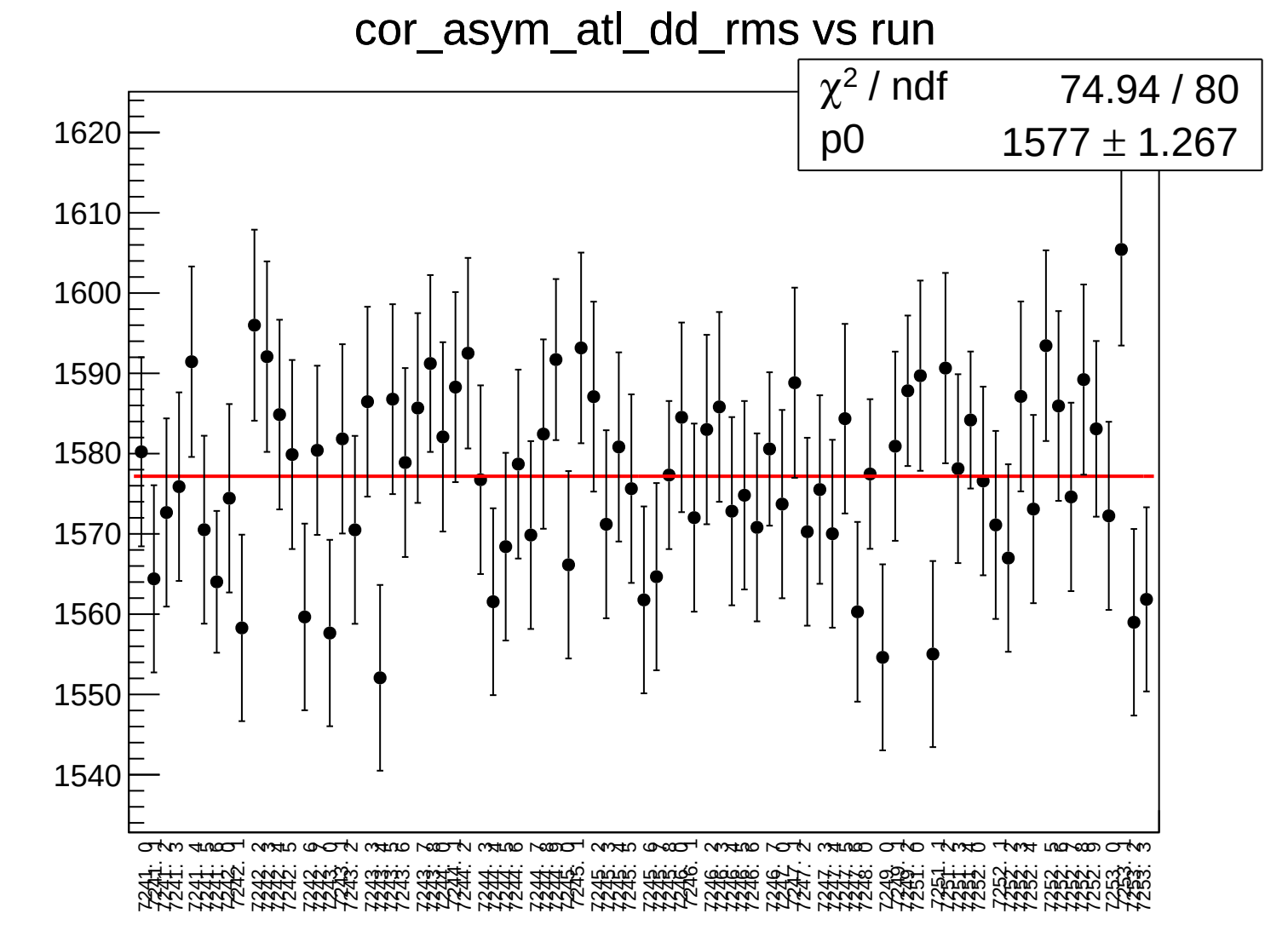

asym_atl_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 95.38 / 80
p0 1495 ± 4232
150
100
50
0
−50
−100
pull
Entries 81
Mean −93.95
Std Dev 0
2
1
0
−1
−2

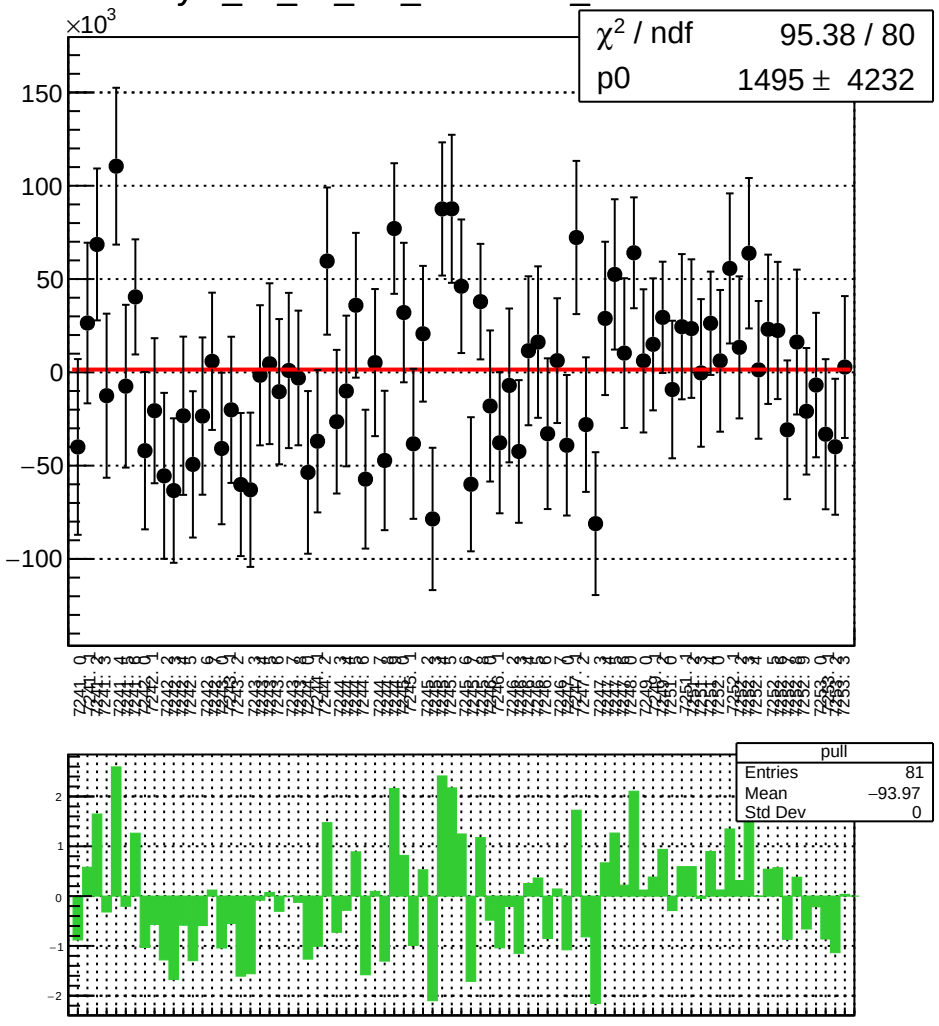

pull1D
Entries 81
Mean −0.02687
Std Dev 1.085
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

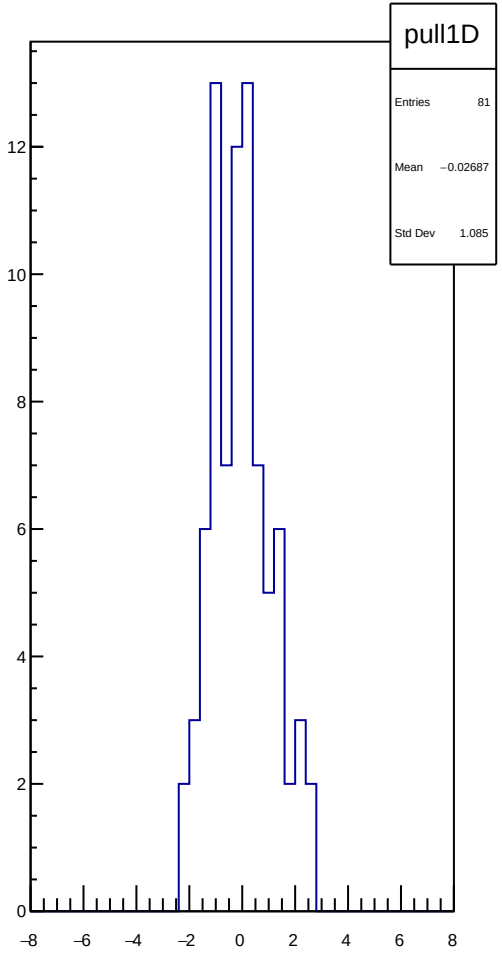

asym_atl_dd_reg_correction_rms vs run
χ² / ndf 4671 / 80
p0 3719 ± 2.992
4600
4400
4200
4000
3800
3600
3400

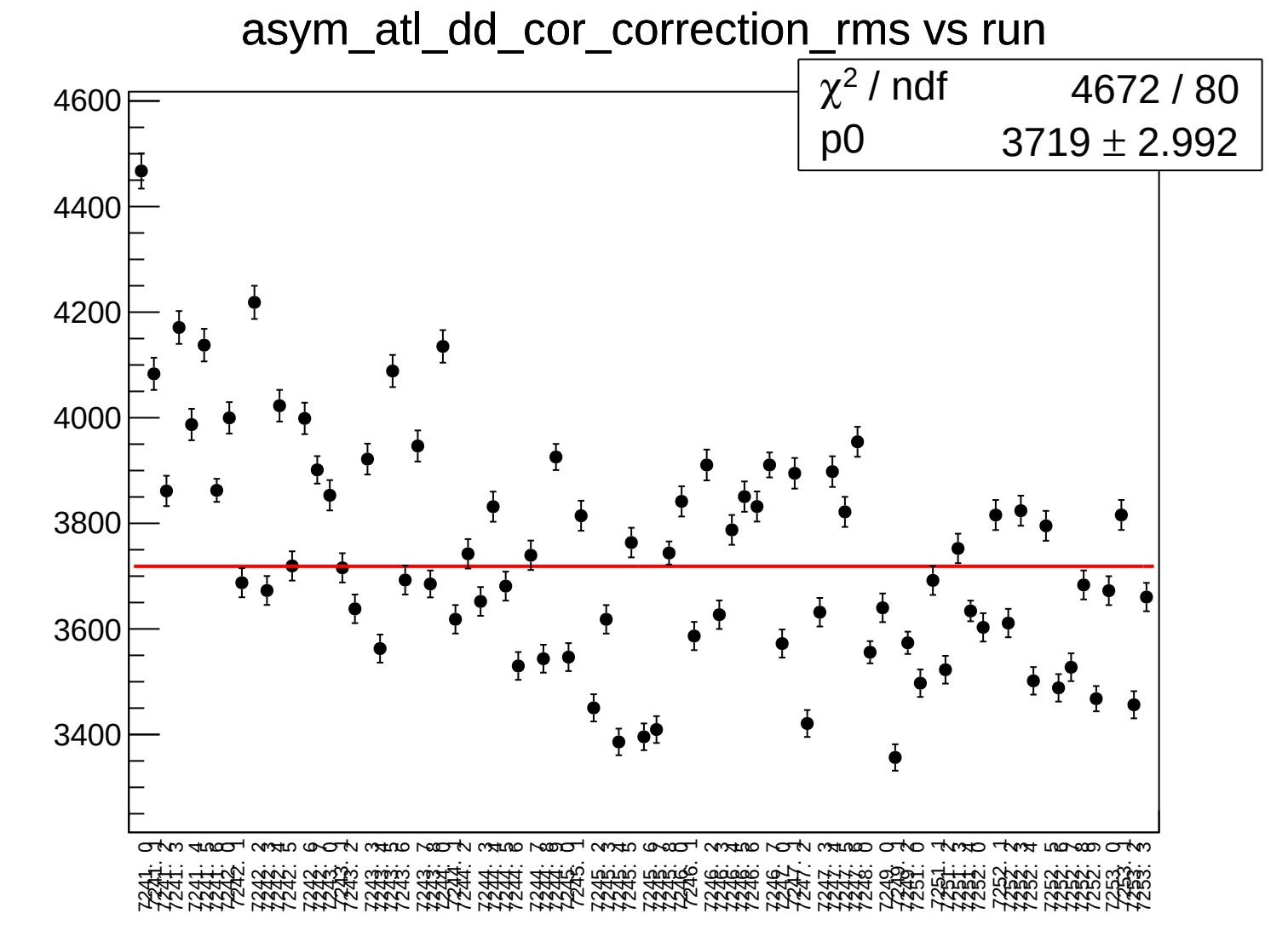

cor_asym_atl_dd_mean vs run
χ² / ndf 64.76 / 80
p0 −717.5 ± 1792
pull
Entries 81
Mean 177.6
Std Dev 0

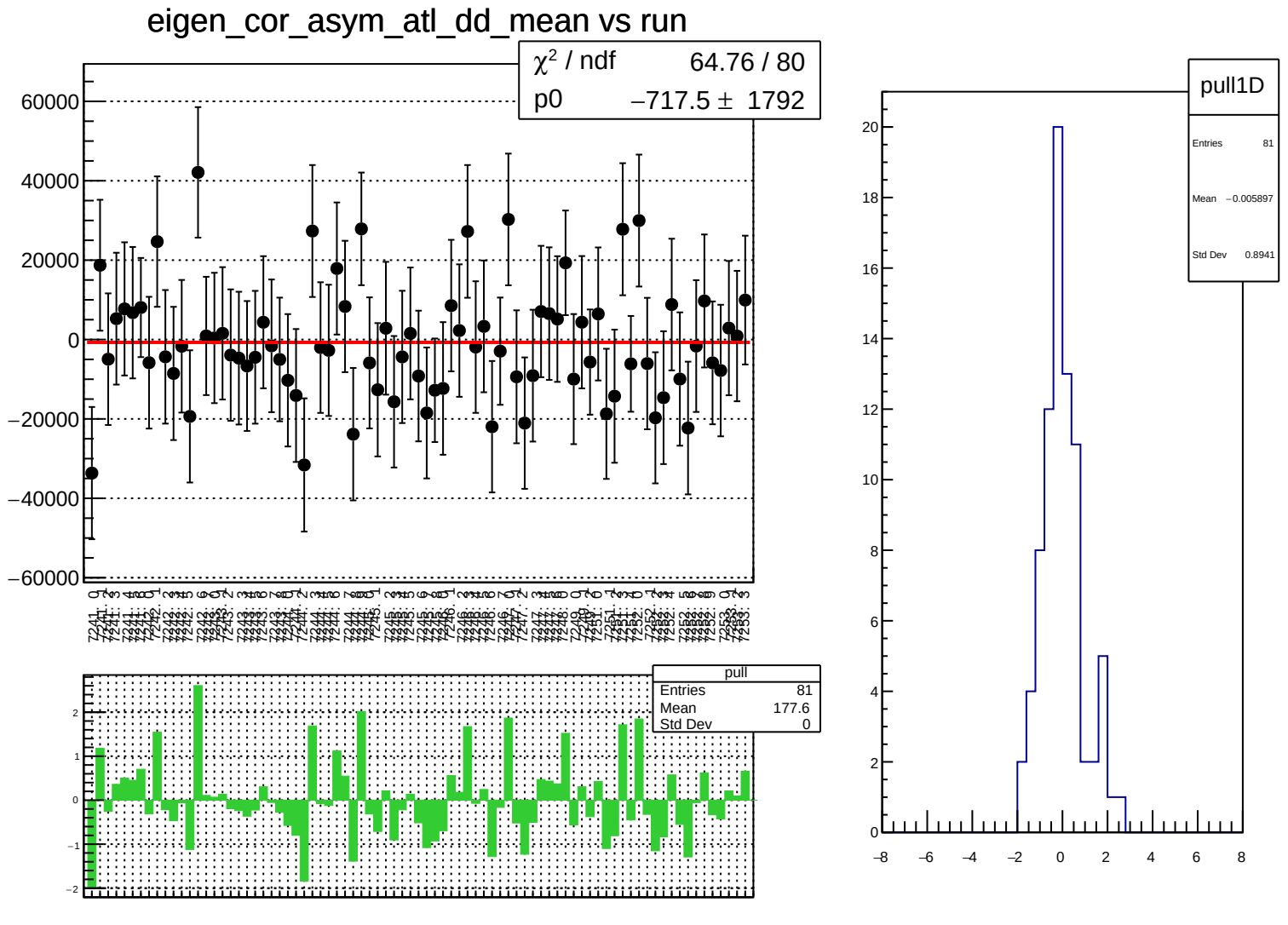

pull1D
Entries 81
Mean −0.005897
Std Dev 0.8941

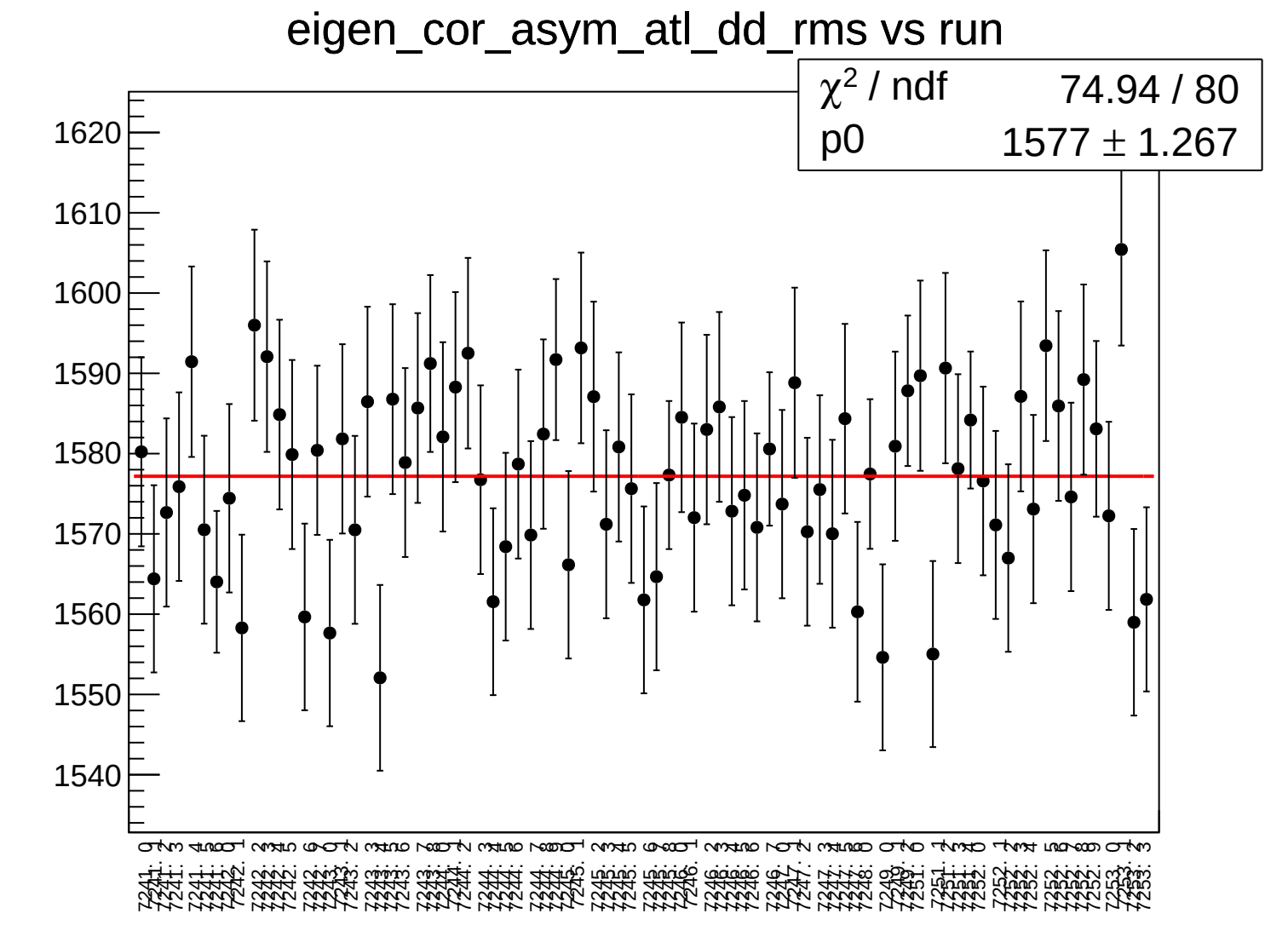

cor_asym_atl_dd_rms vs run
χ^2 / ndf 74.94 / 80
p0 1577 ± 1.267
1620
1610
1600
1590
1580
1570
1560
1550
1540

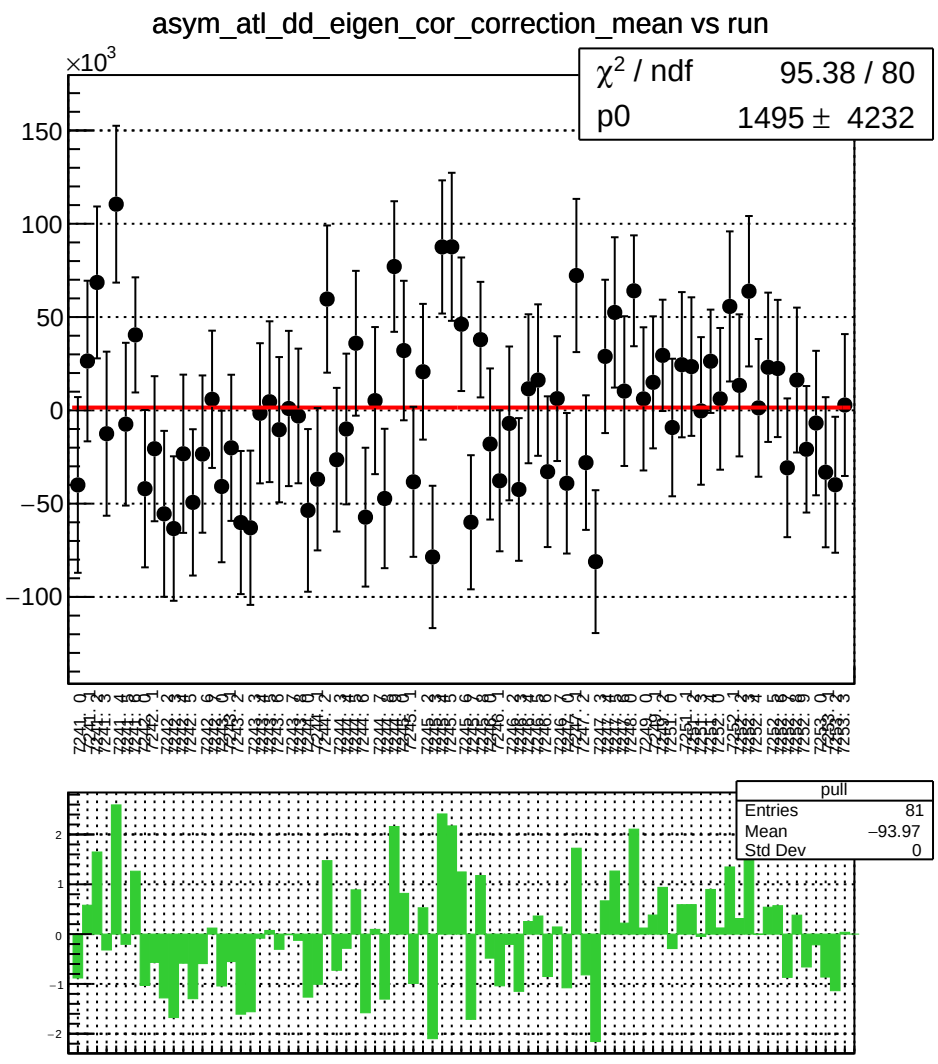

asym_atl_dd_cor_correction_mean vs run
χ² / ndf 95.38 / 80
p0 1495 ± 4232
pull
Entries 81
Mean −93.97
Std Dev 0

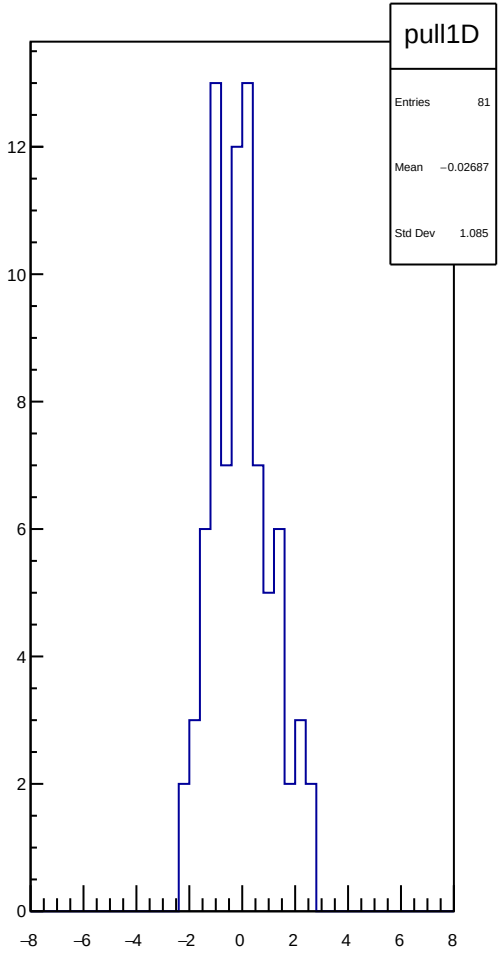

pull1D
Entries 81
Mean −0.02687
Std Dev 1.085

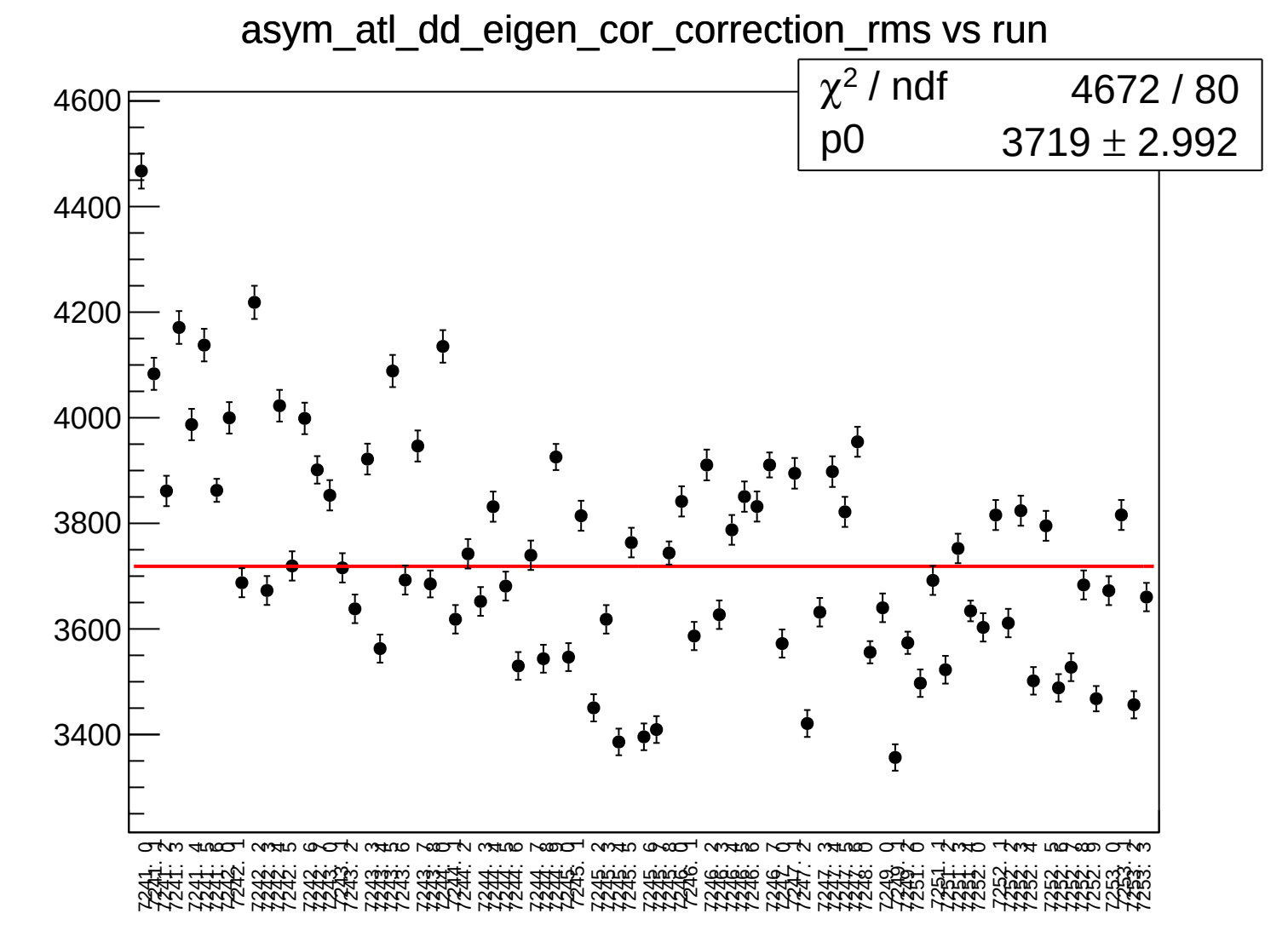

asym_atl_dd_cor_correction_rms vs run
χ² / ndf 4672 / 80
p0 3719 ± 2.992
4600
4400
4200
4000
3800
3600
3400

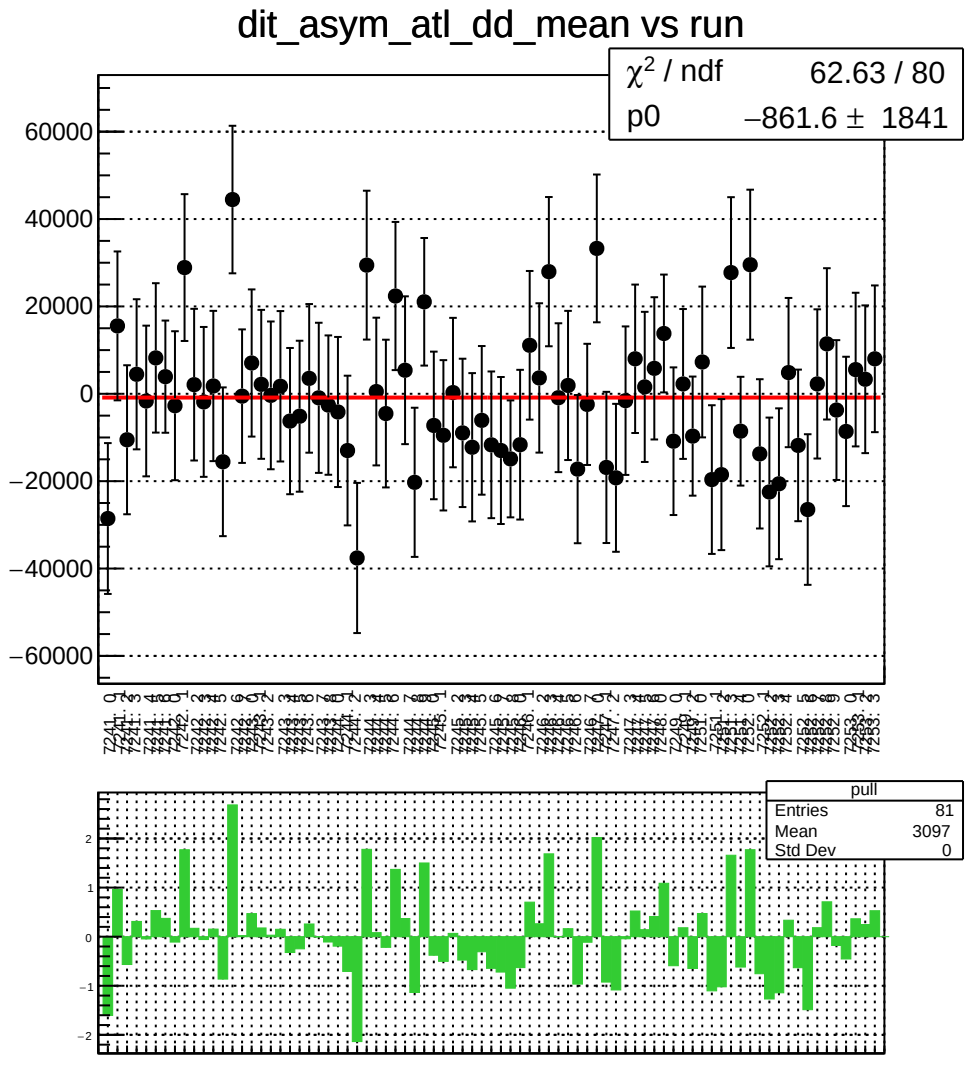

eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 64.76 / 80
p0 −717.5 ± 1792
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean 177.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 81
Mean −0.005897
Std Dev 0.8941
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

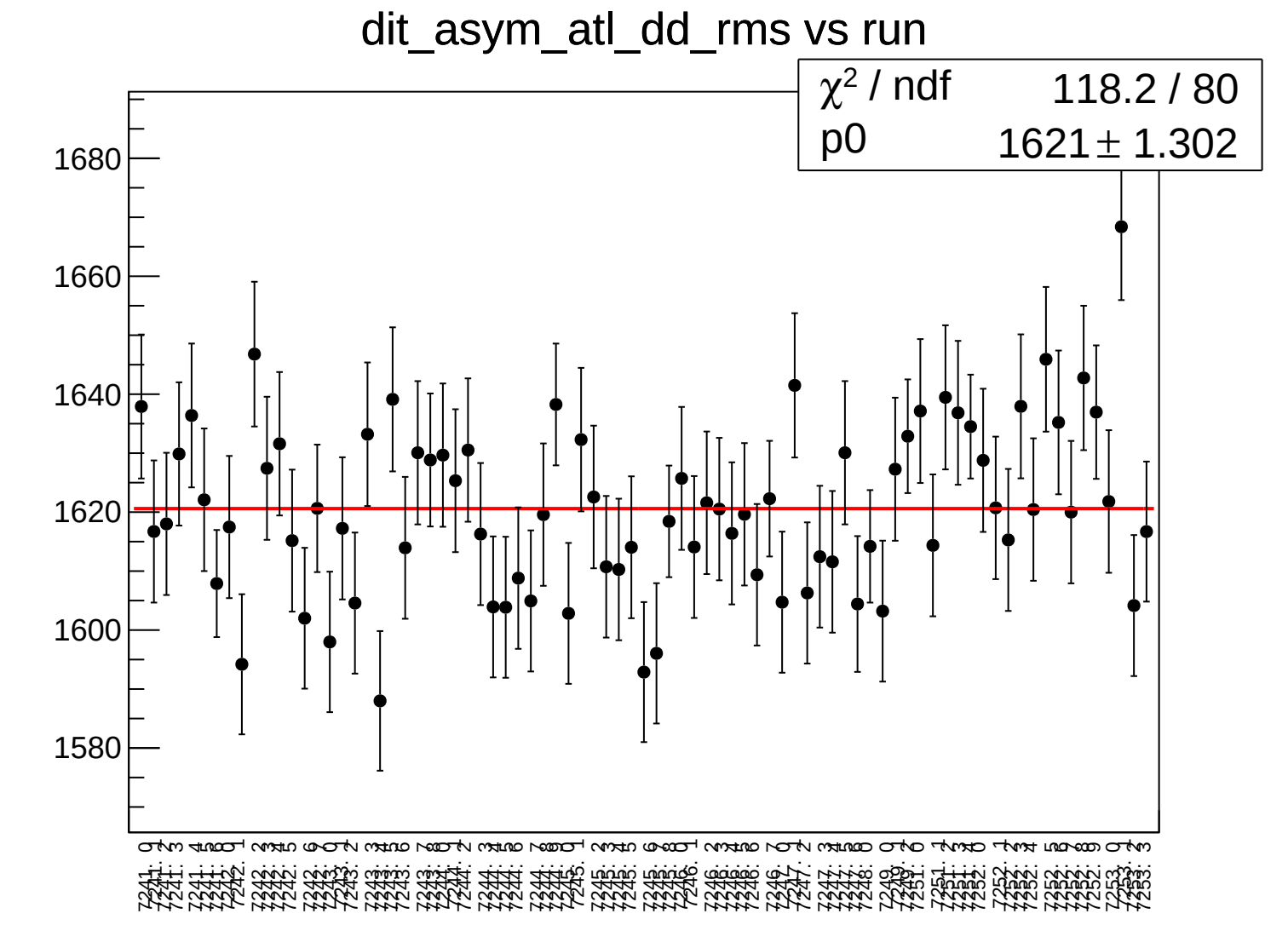

eigen_cor_asym_atl_dd_rms vs run
χ^2 / ndf 74.94 / 80
p0 1577 ± 1.267
1620
1610
1600
1590
1580
1570
1560
1550
1540

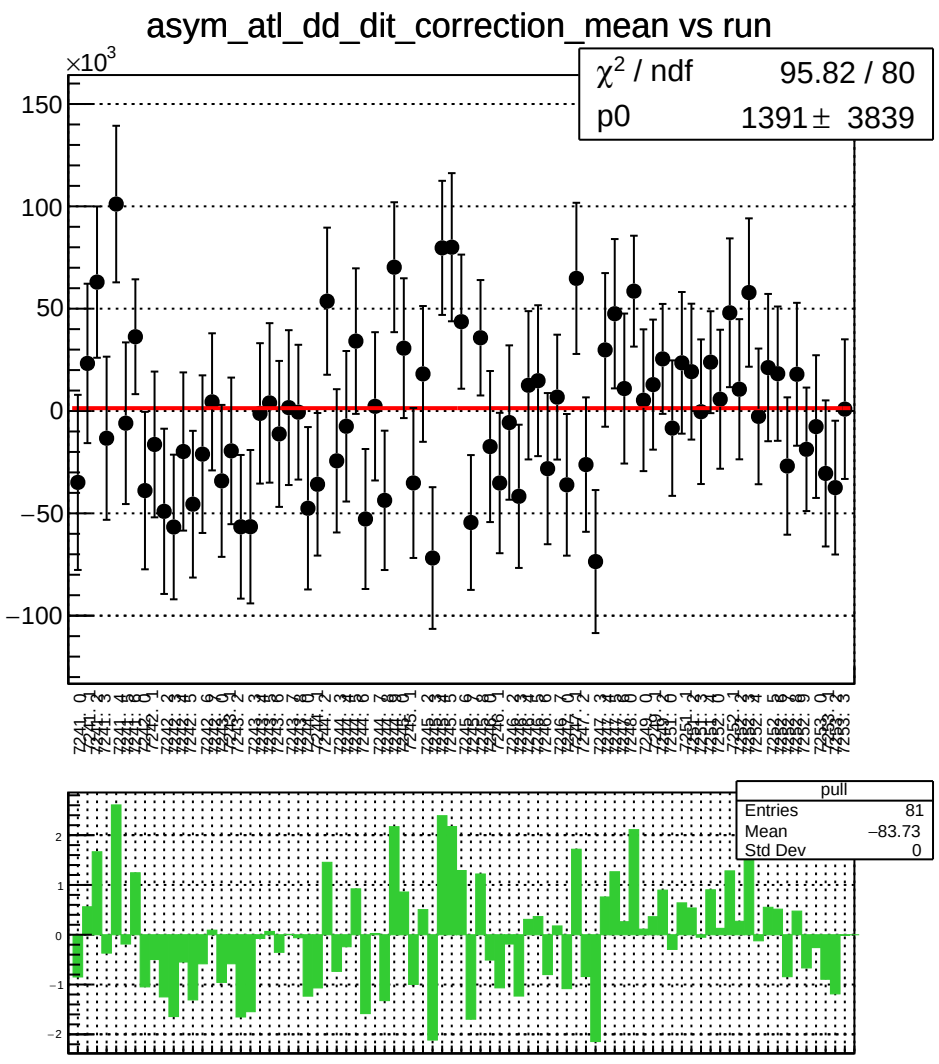

asym_atl_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 95.38 / 80
p0 1495 ± 4232
150
100
50
0
−50
−100
pull
Entries 81
Mean −93.97
Std Dev 0
2
1
0
−1
−2

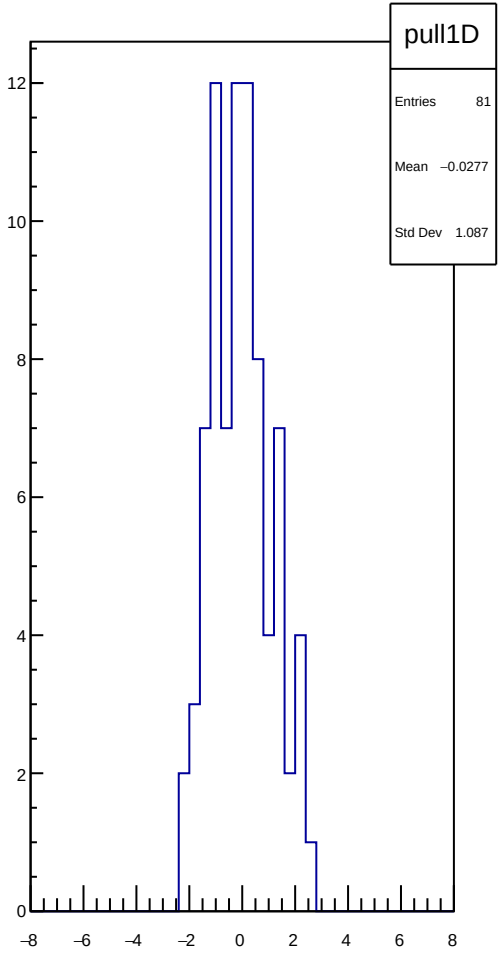

pull1D
Entries 81
Mean −0.02687
Std Dev 1.085
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

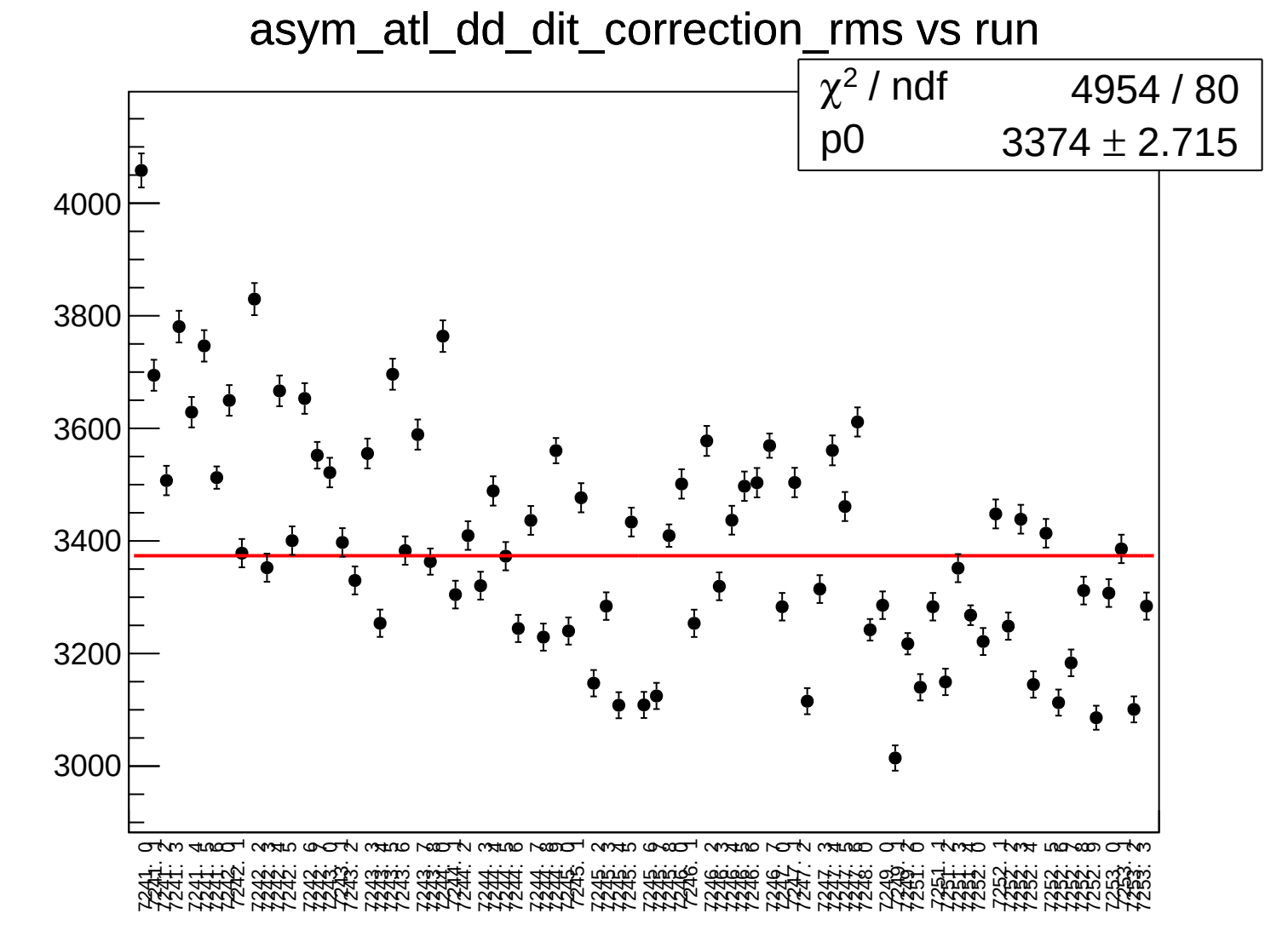

asym_atl_dd_eigen_cor_correction_rms vs run
χ² / ndf 4672 / 80
p0 3719 ± 2.992
4600
4400
4200
4000
3800
3600
3400

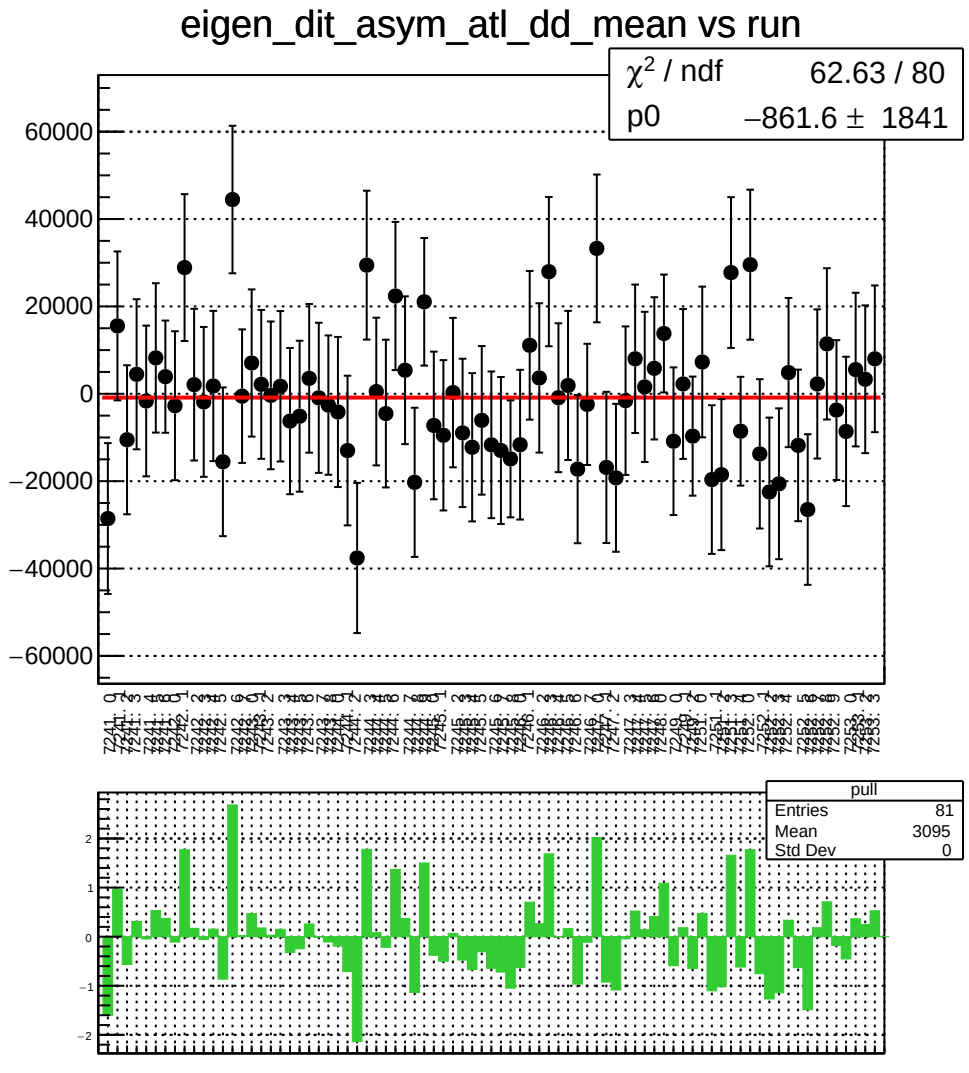

dit_asym_atl_dd_mean vs run
χ² / ndf 62.63 / 80
p0 −861.6 ± 1841
pull
Entries 81
Mean 3097
Std Dev 0
pull1D
Entries 81
Mean −0.0006266
Std Dev 0.8794

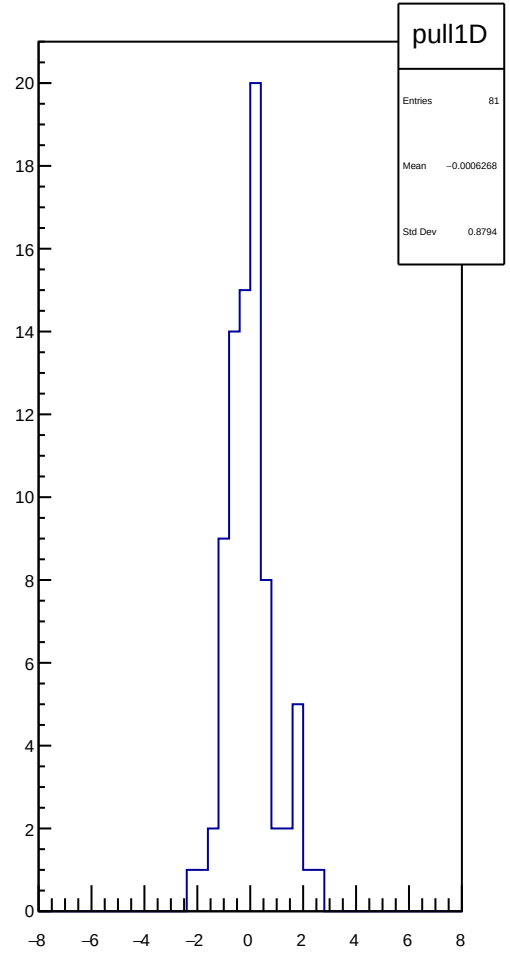

dit_asym_atl_dd_rms vs run
χ^2 / ndf 118.2 / 80
p0 1621 ± 1.302
1680
1660
1640
1620
1600
1580

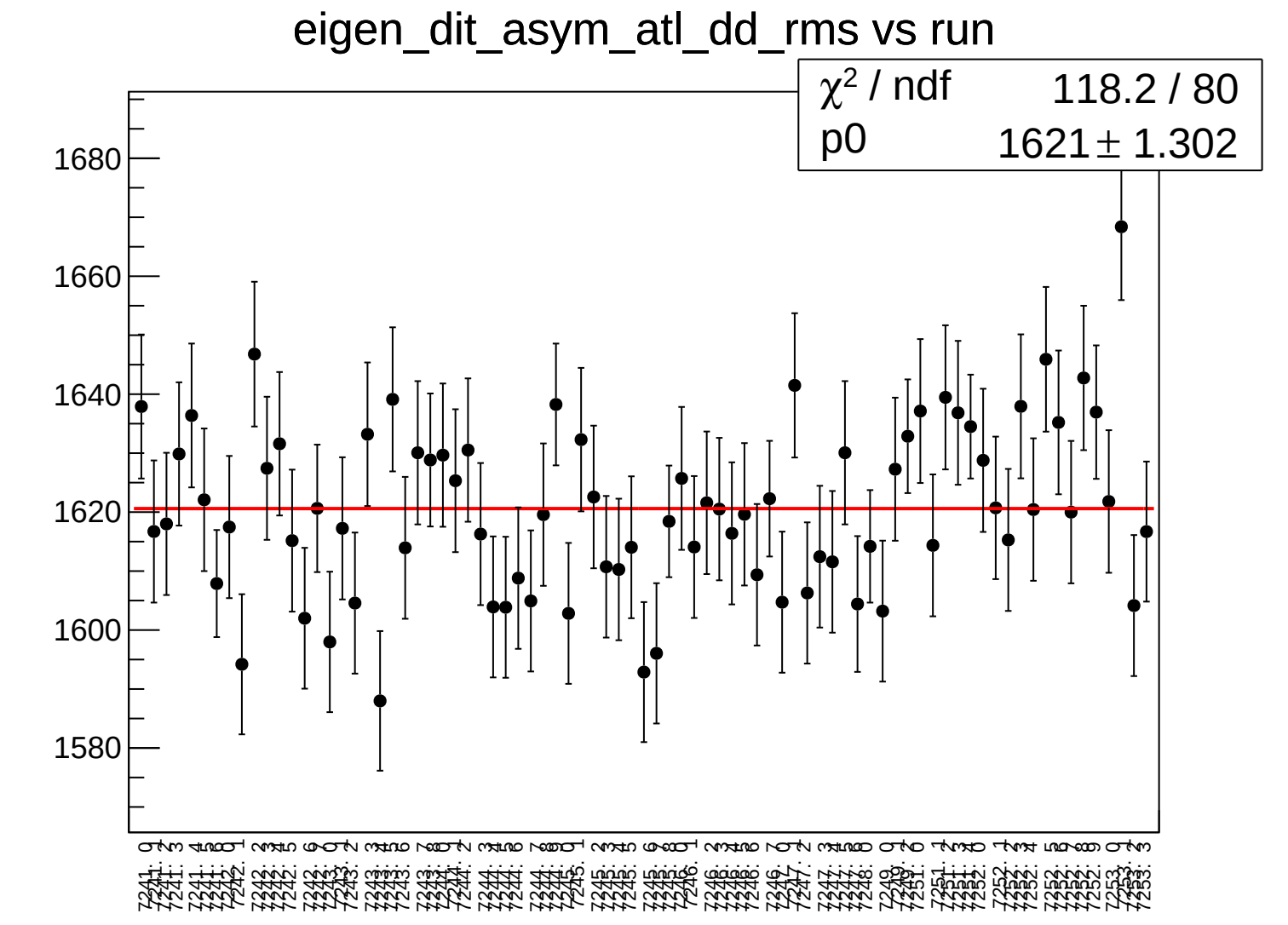

asym_atl_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 95.82 / 80
p0 1391 ± 3839
150
100
50
0
−50
−100
pull
Entries 81
Mean −83.73
Std Dev 0
2
1
0
−1
−2

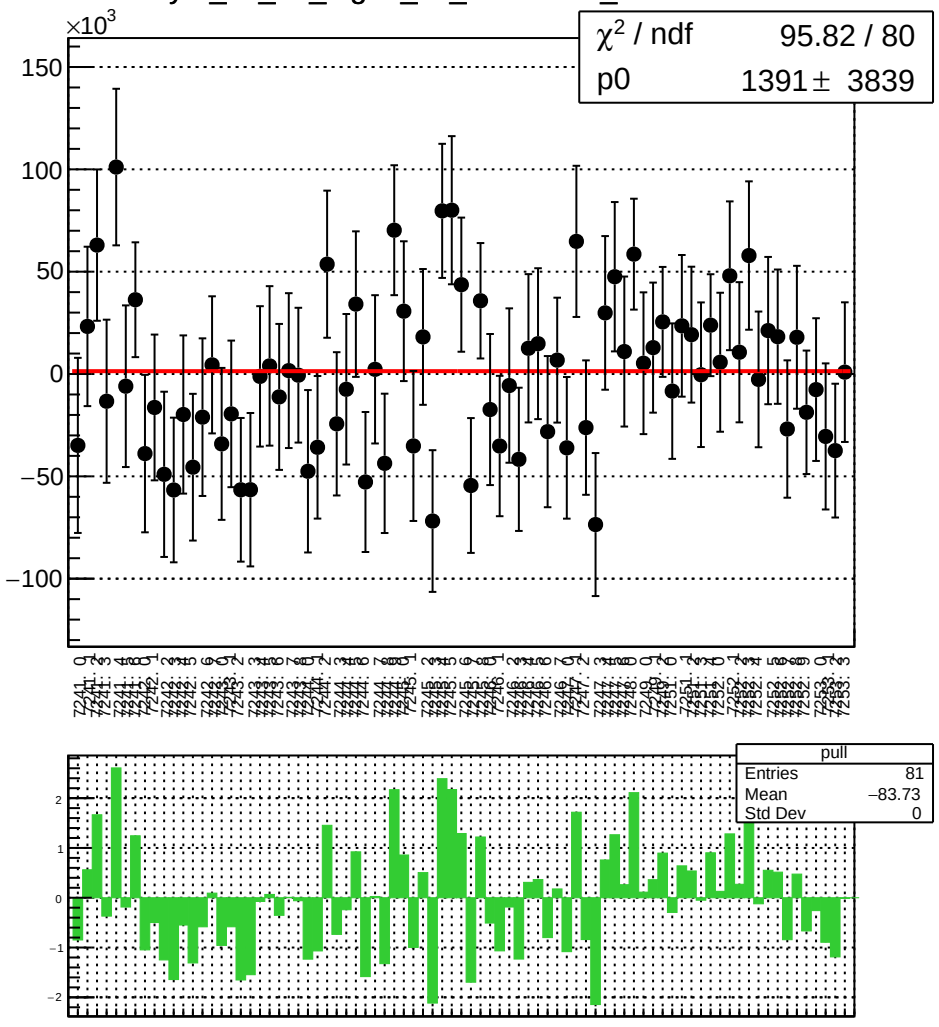

pull1D
Entries 81
Mean −0.0277
Std Dev 1.087
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

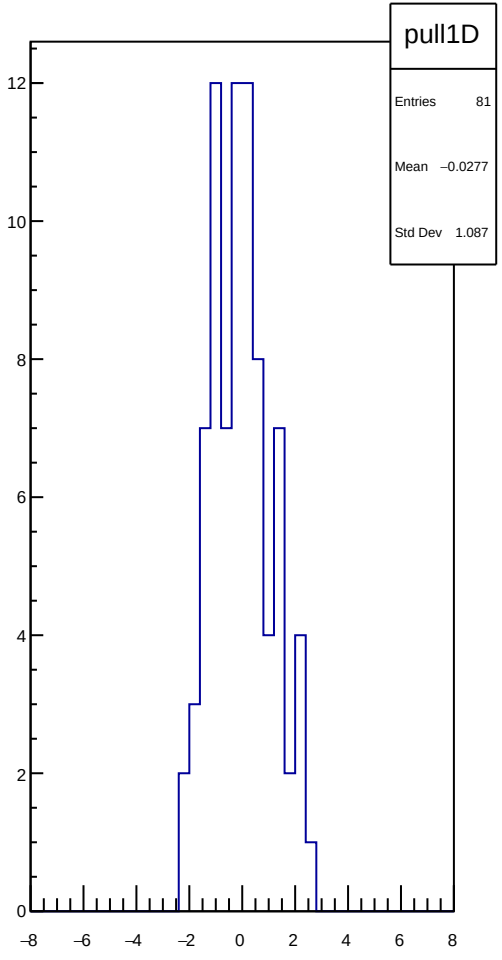

asym_atl_dd_dit_correction_rms vs run
χ² / ndf 4954 / 80
p0 3374 ± 2.715
4000
3800
3600
3400
3200
3000

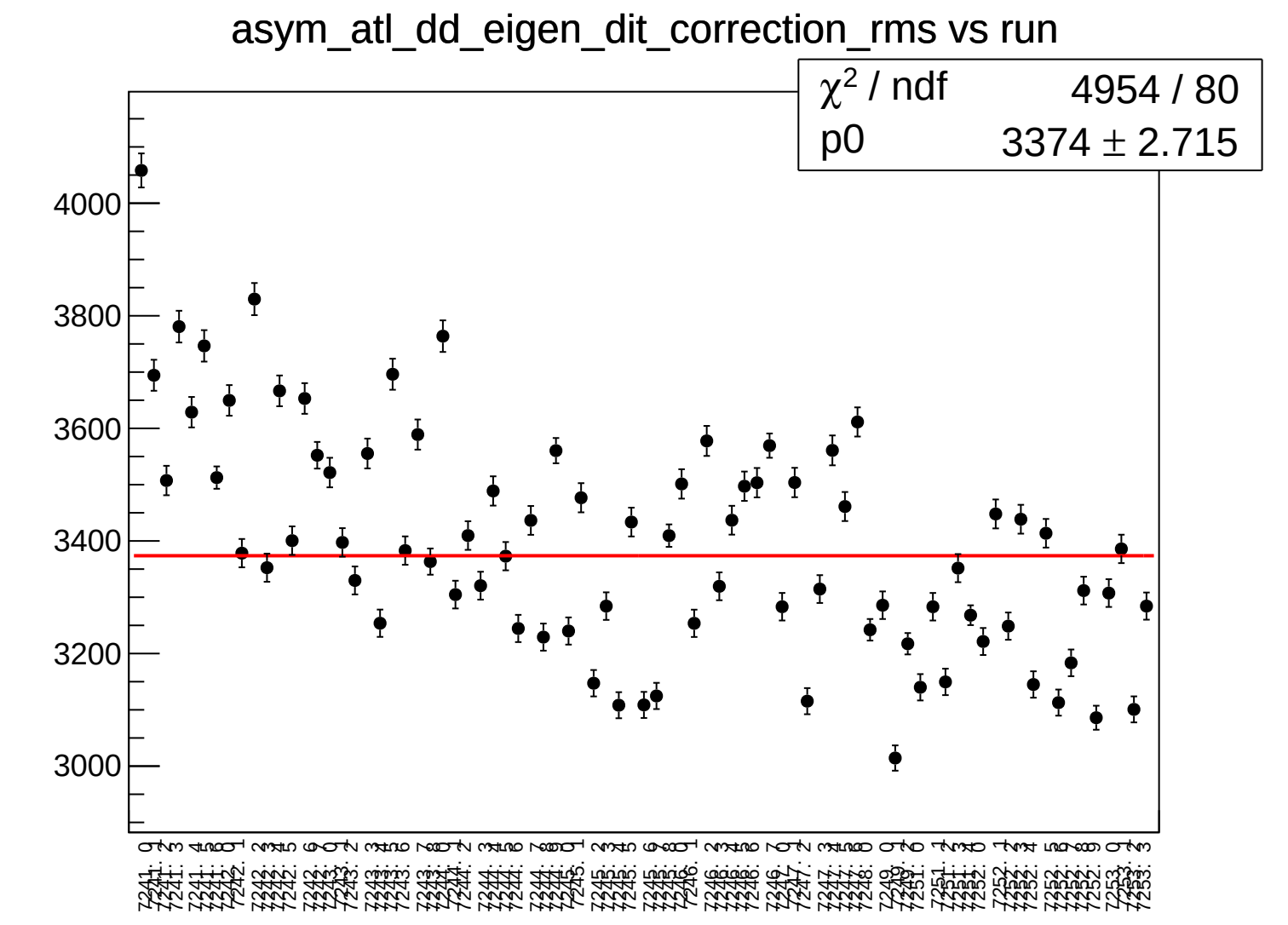

eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 62.63 / 80
p0 −861.6 ± 1841
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean 3095
Std Dev 0
2
1
0
−1
−2

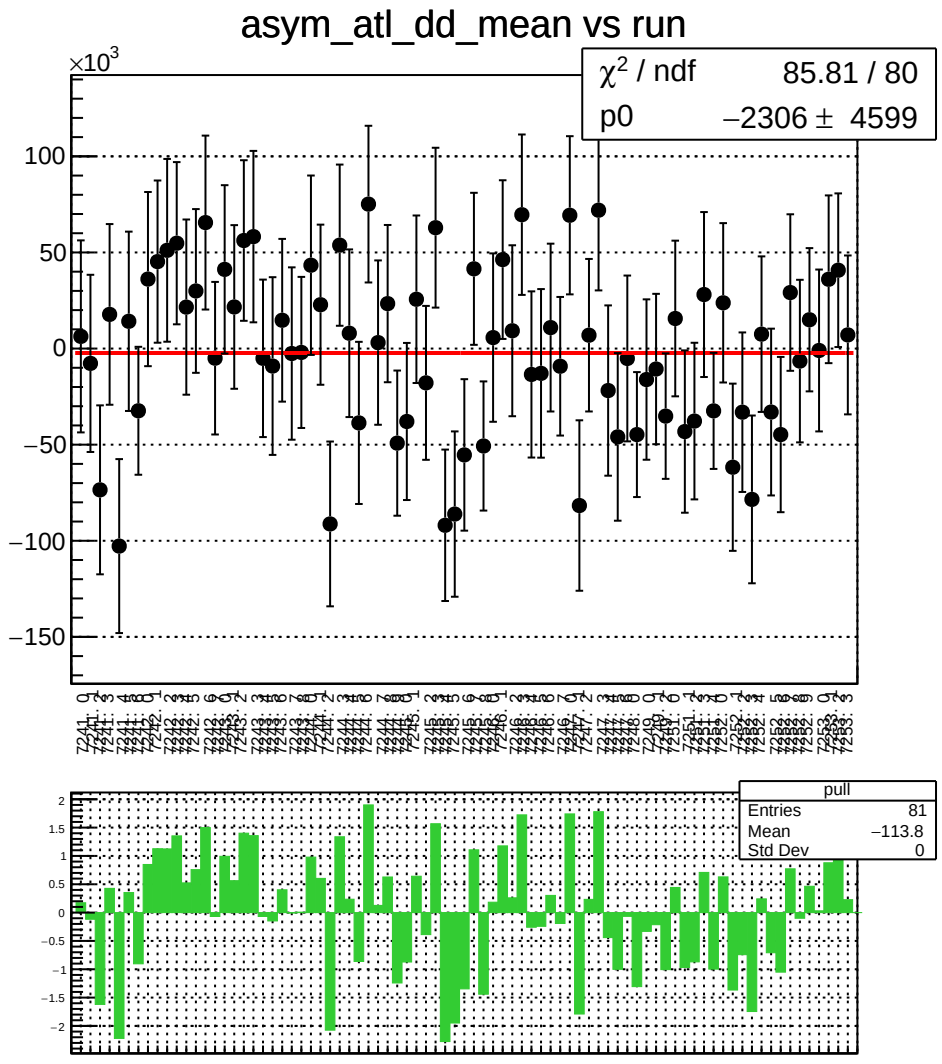

pull1D
Entries 81
Mean −0.0006268
Std Dev 0.8794
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

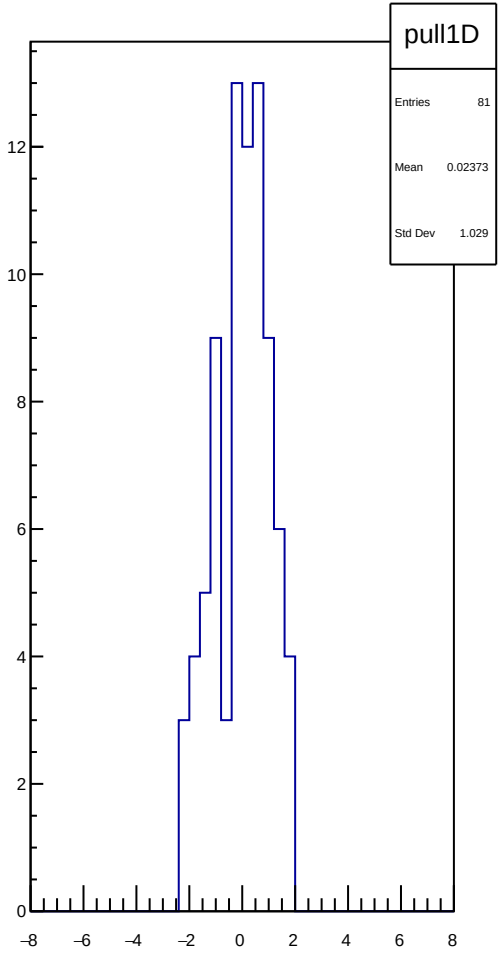

eigen_dit_asym_atl_dd_rms vs run
χ² / ndf 118.2 / 80
p0 1621 ± 1.302
1680
1660
1640
1620
1600
1580

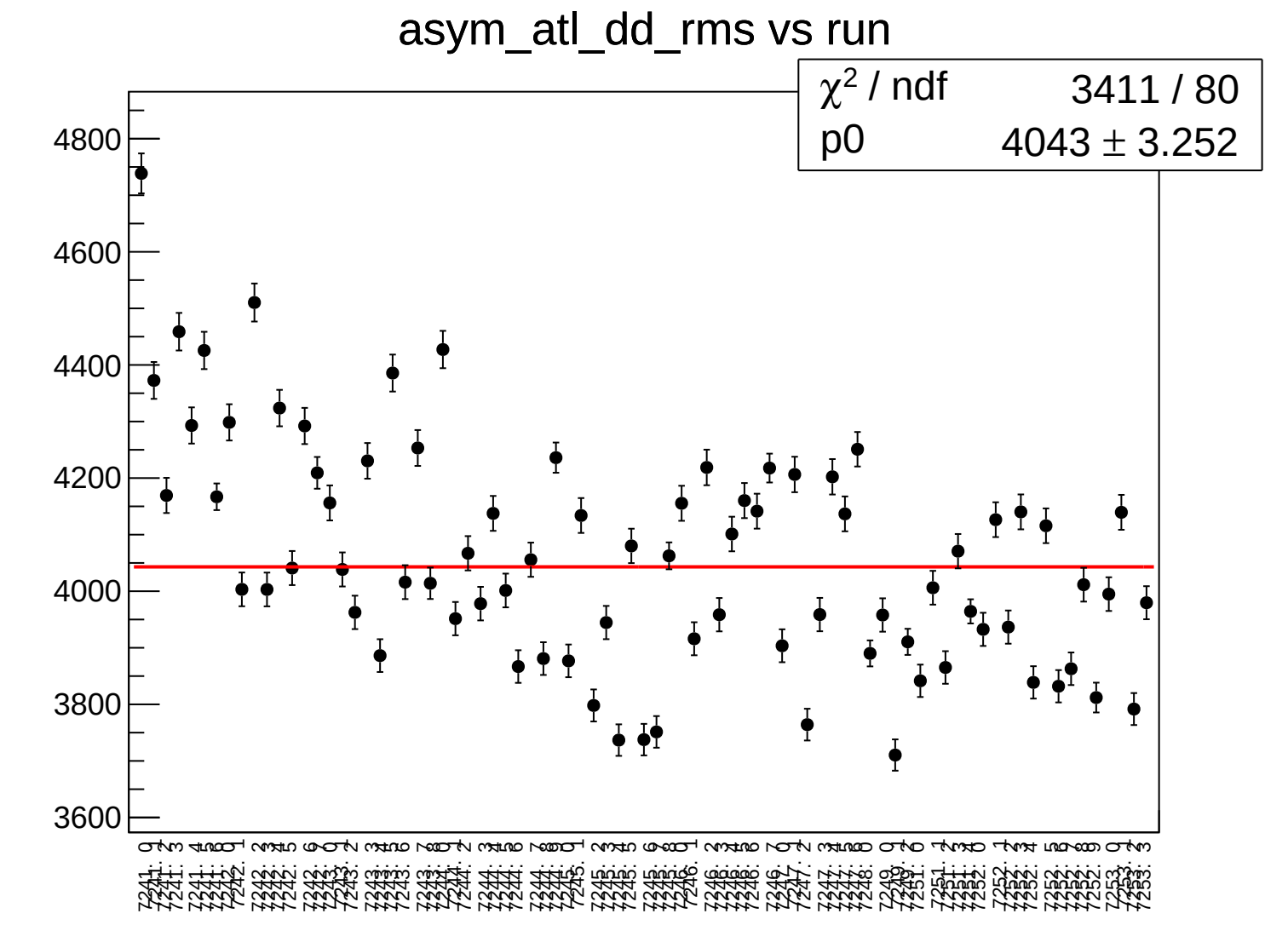

asym_atl_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 95.82 / 80
p0 1391 ± 3839
150
100
50
0
−50
−100
pull
Entries 81
Mean −83.73
Std Dev 0
2
1
0
−1
−2

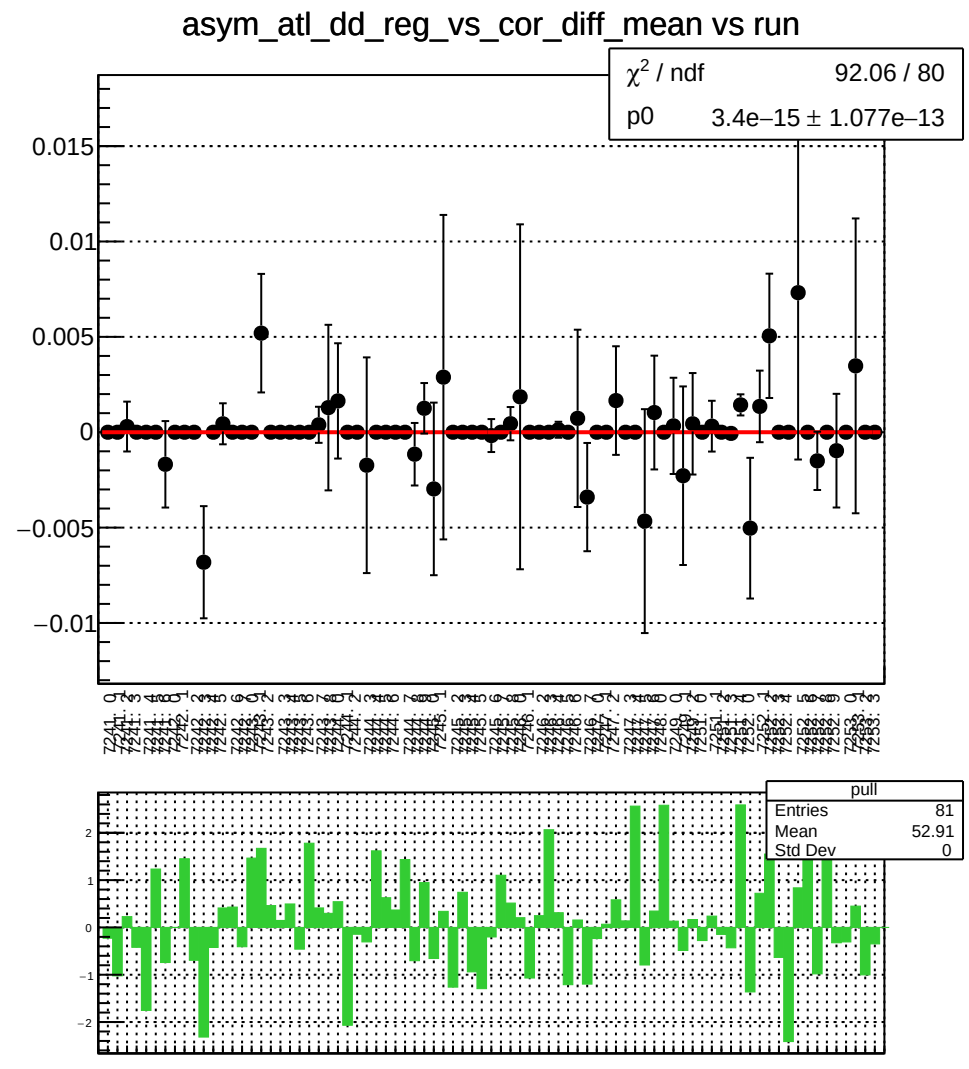

pull1D
Entries 81
Mean −0.0277
Std Dev 1.087
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

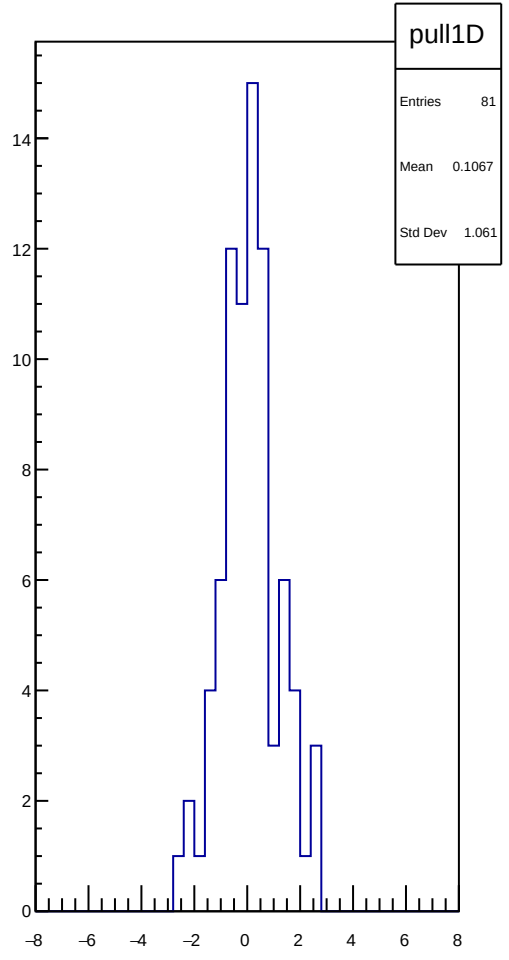

asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 4954 / 80
p0 3374 ± 2.715
4000
3800
3600
3400
3200
3000

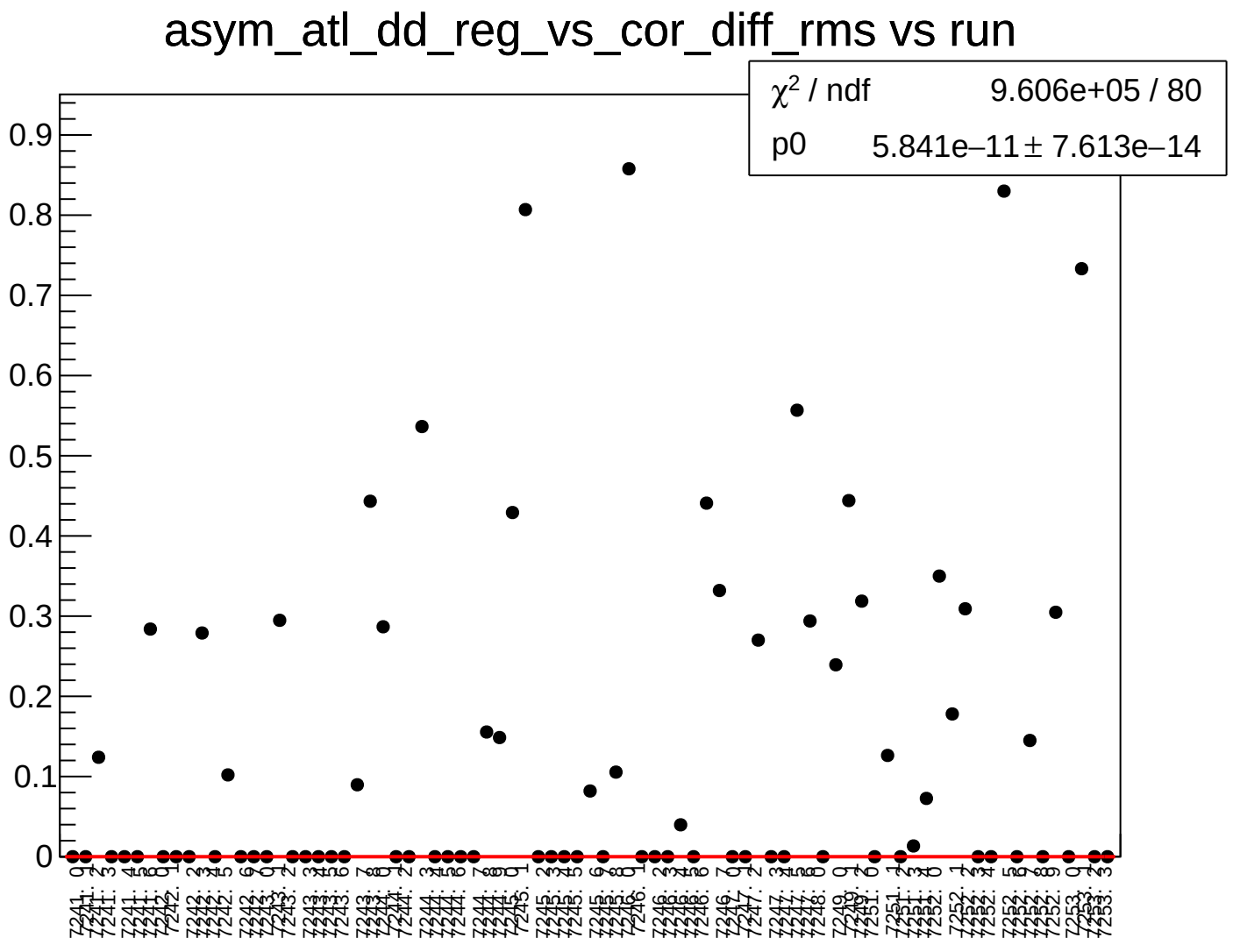

asym_atl_dd_mean vs run
×10^3
χ² / ndf 85.81 / 80
p0 −2306 ± 4599
100
50
0
−50
−100
−150
pull
Entries 81
Mean −113.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

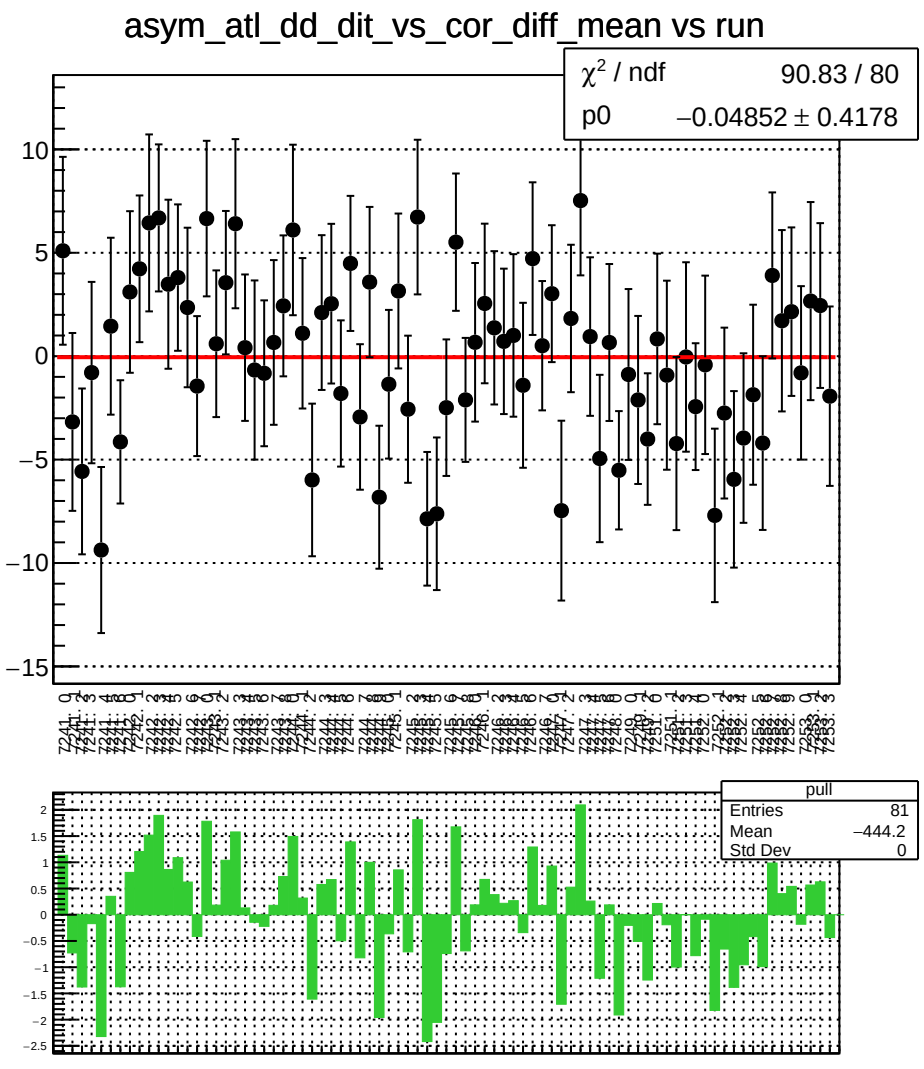

pull1D
Entries 81
Mean 0.02373
Std Dev 1.029
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

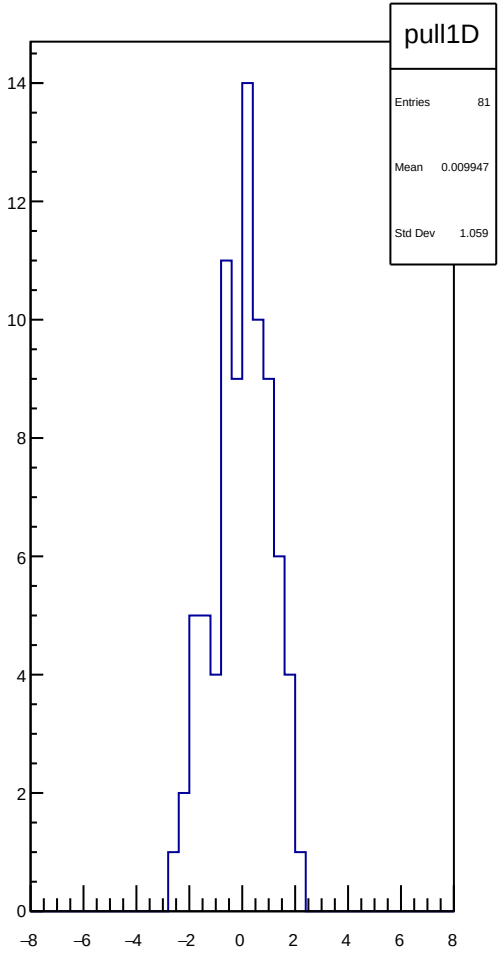

asym_atl_dd_rms vs run
χ^2 / ndf 3411 / 80
p0 4043 ± 3.252
4800
4600
4400
4200
4000
3800
3600

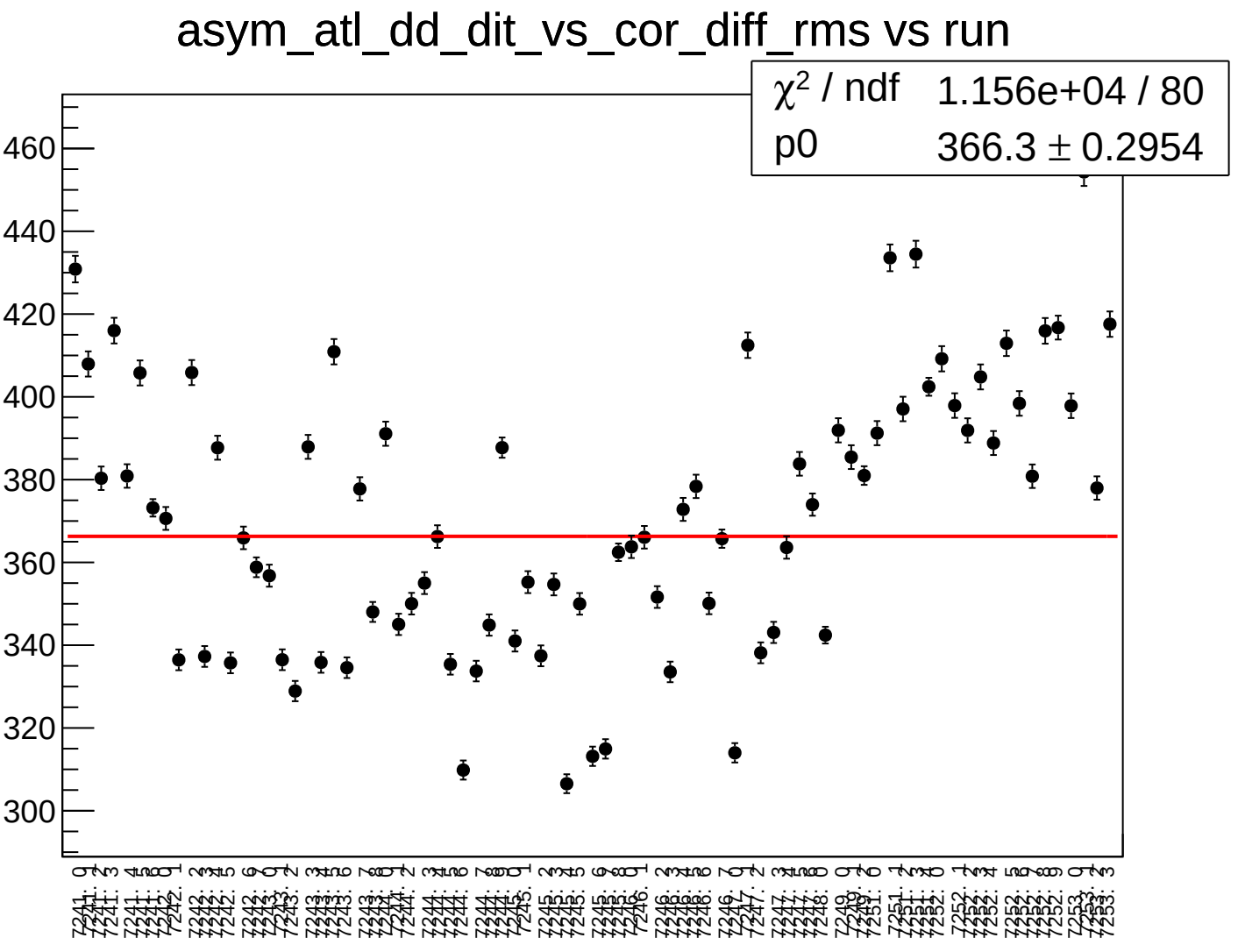

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 92.06 / 80
p0 3.4e−15 ± 1.077e−13
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 81
Mean 52.91
Std Dev 0
2
1
0
−1
−2

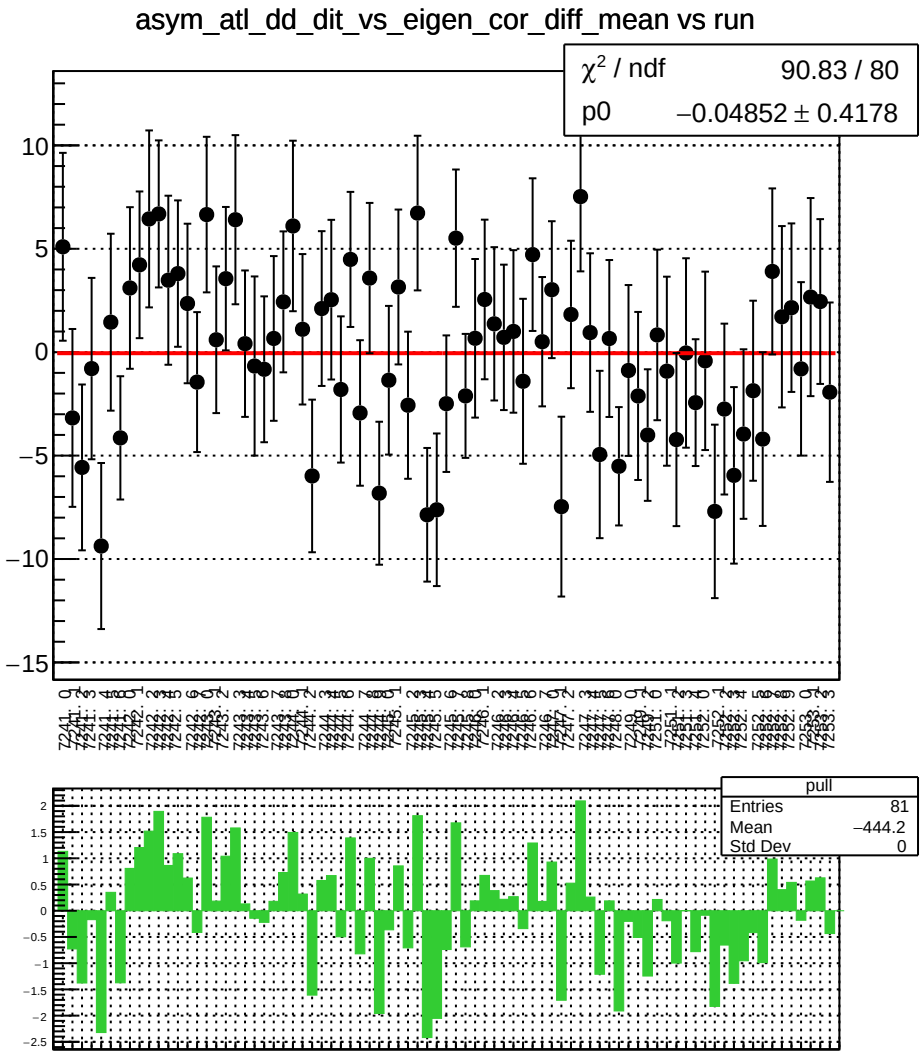

pull1D
Entries 81
Mean 0.1067
Std Dev 1.061
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

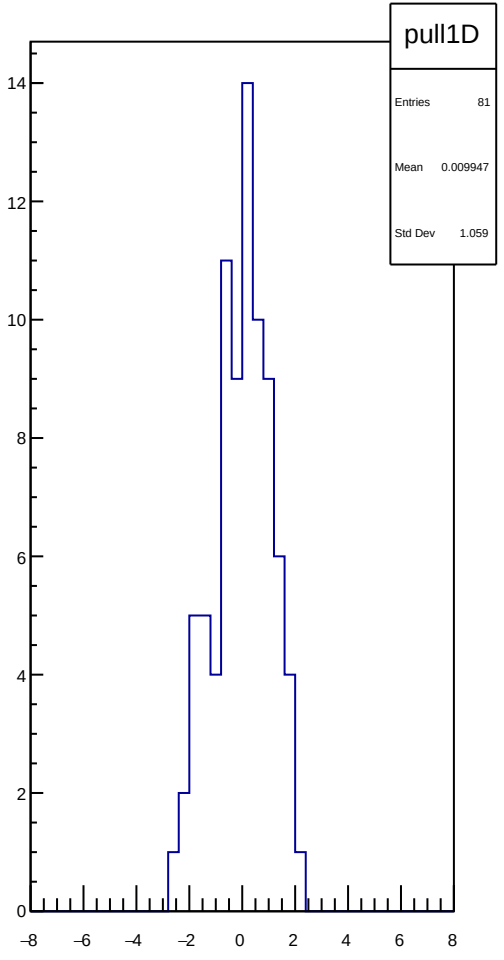

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.606e+05 / 80
p0 5.841e−11 ± 7.613e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

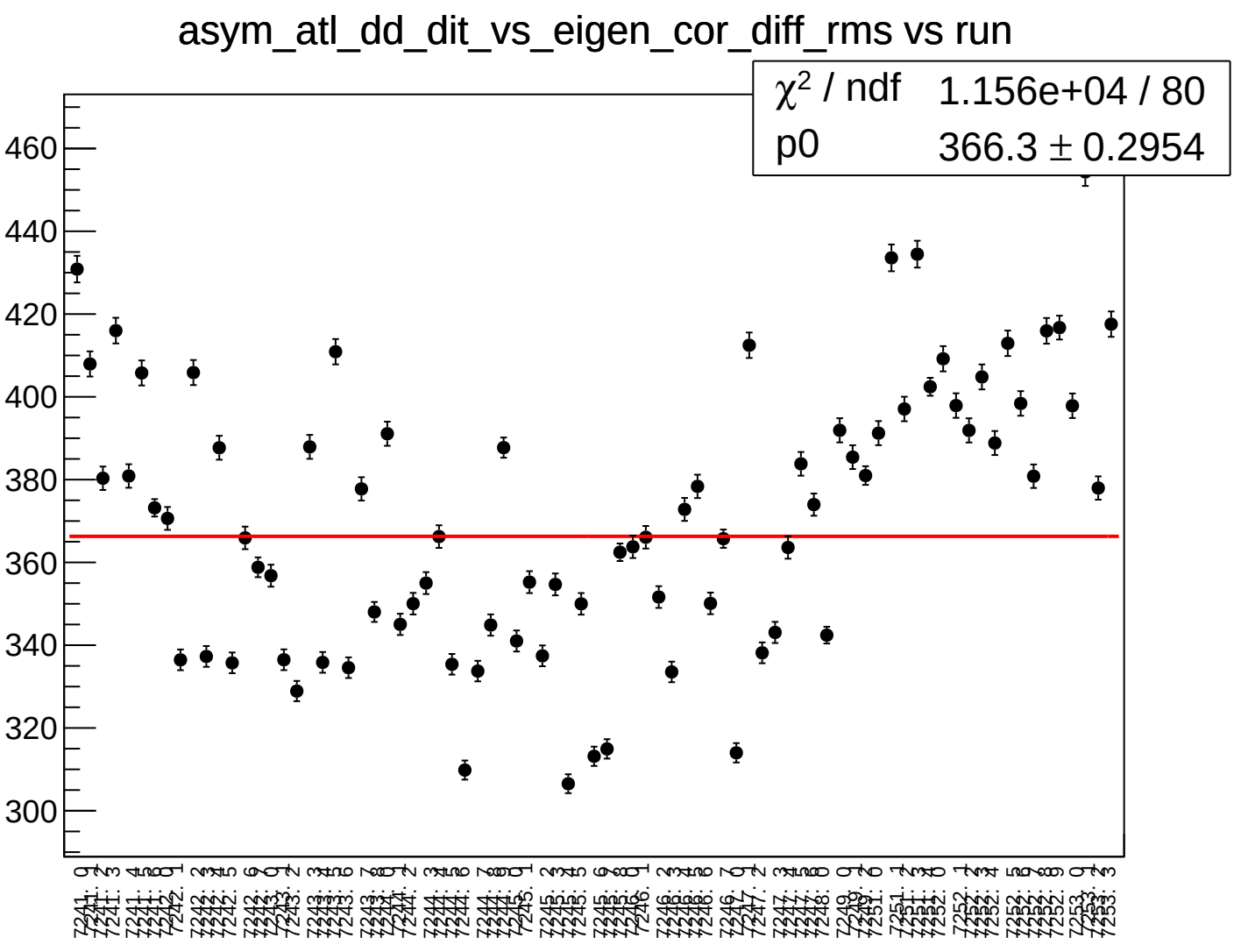

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 90.83 / 80
p0 −0.04852 ± 0.4178
pull
Entries 81
Mean −444.2
Std Dev 0

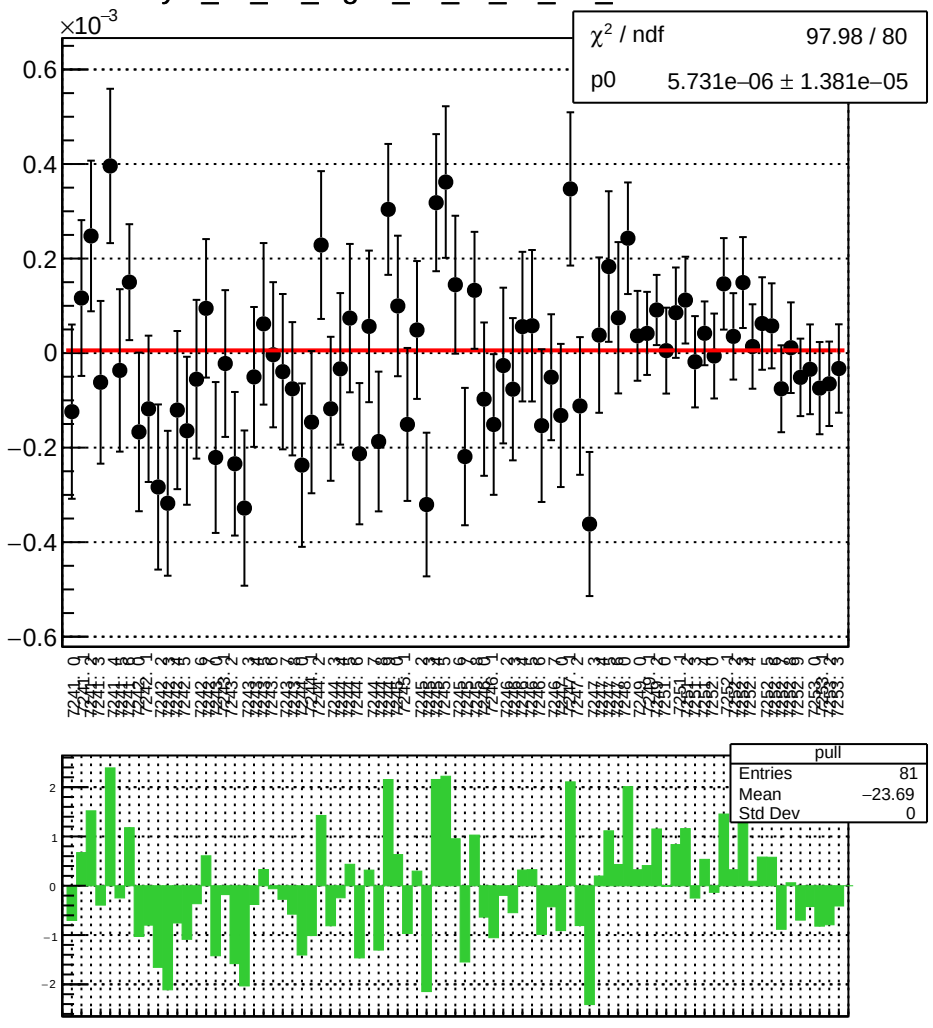

pull1D
Entries 81
Mean 0.009947
Std Dev 1.059

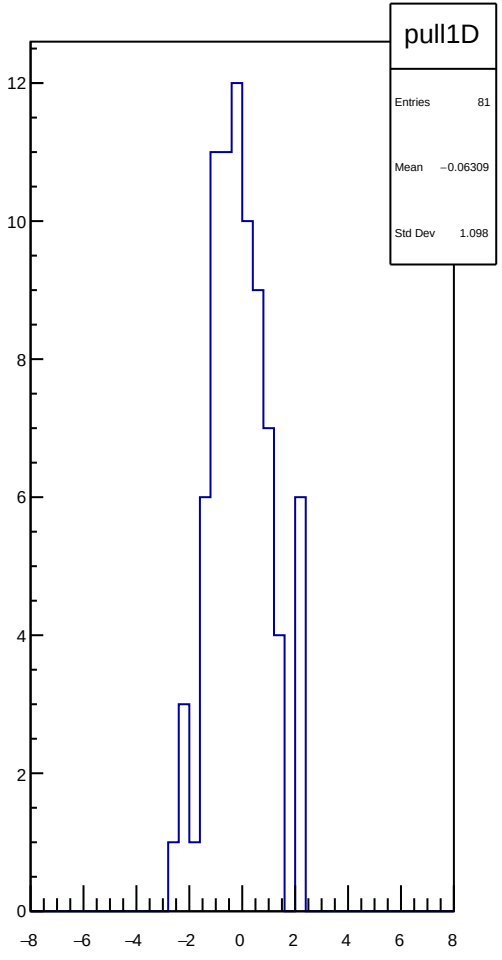

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.156e+04 / 80
p0 366.3 ± 0.2954
460
440
420
400
380
360
340
320
300

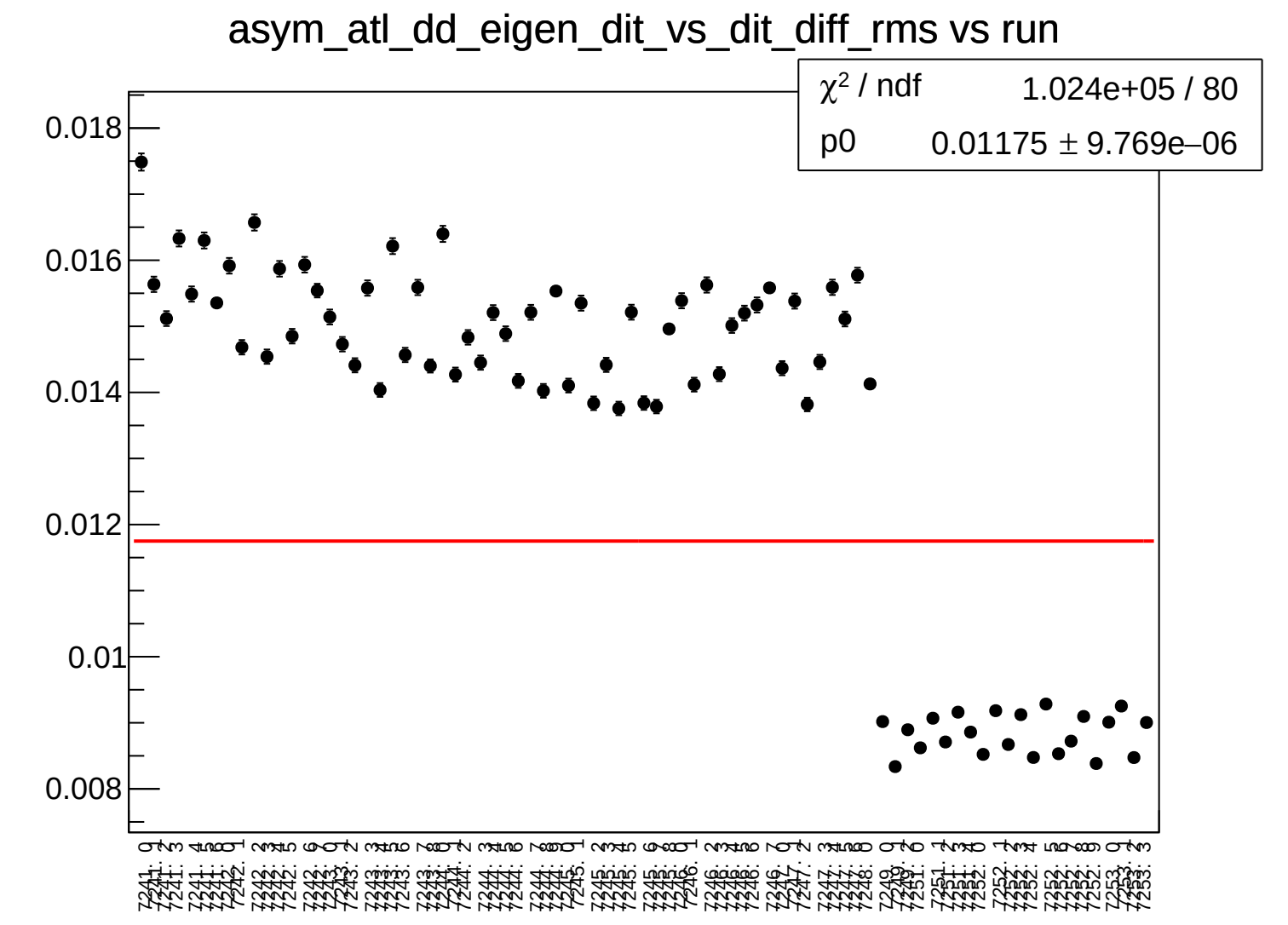

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.83 / 80
p0 −0.04852 ± 0.4178
pull
Entries 81
Mean −444.2
Std Dev 0

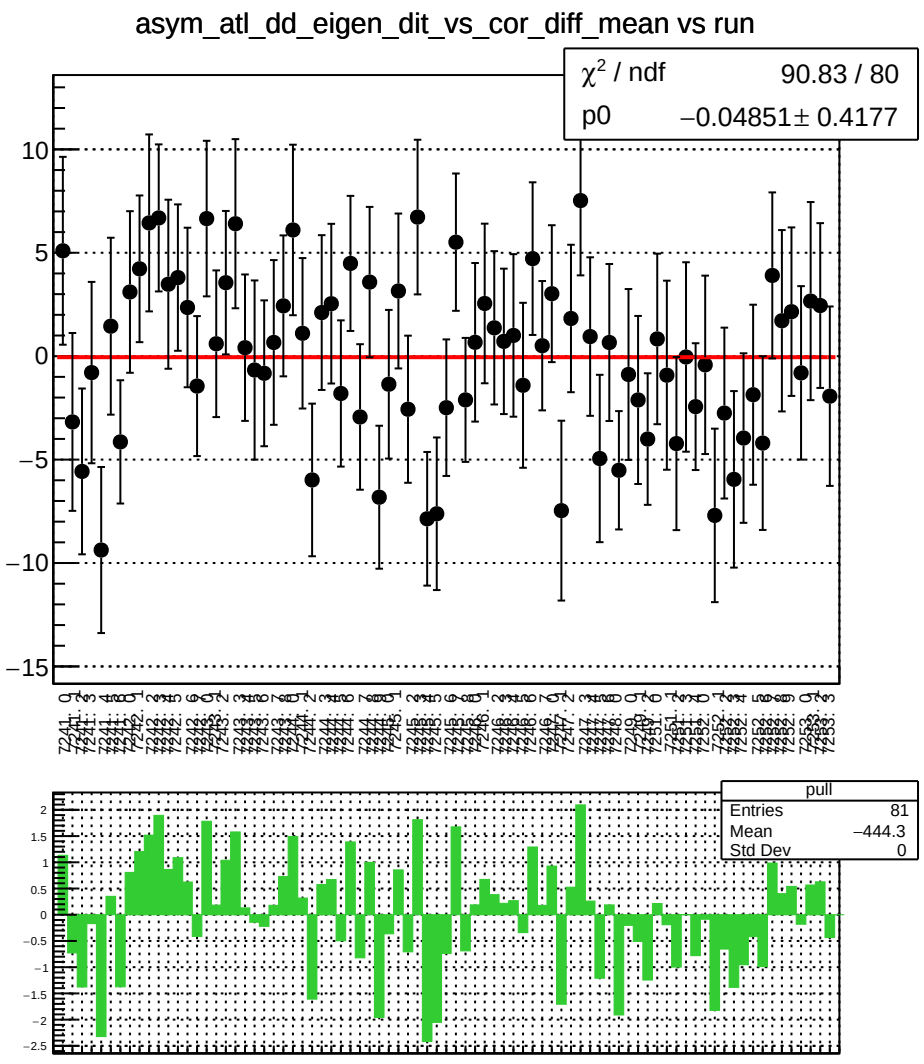

pull1D
Entries 81
Mean 0.009947
Std Dev 1.059

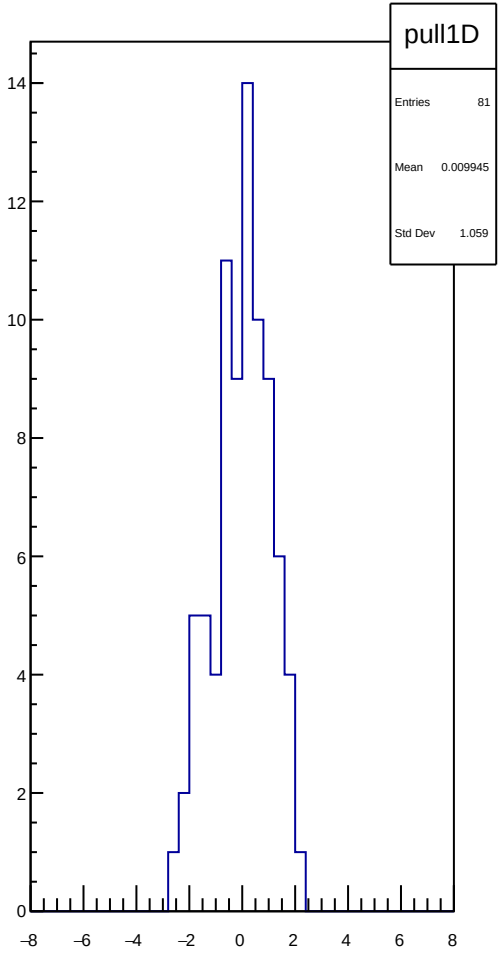

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.156e+04 / 80
p0 366.3 ± 0.2954
460
440
420
400
380
360
340
320
300

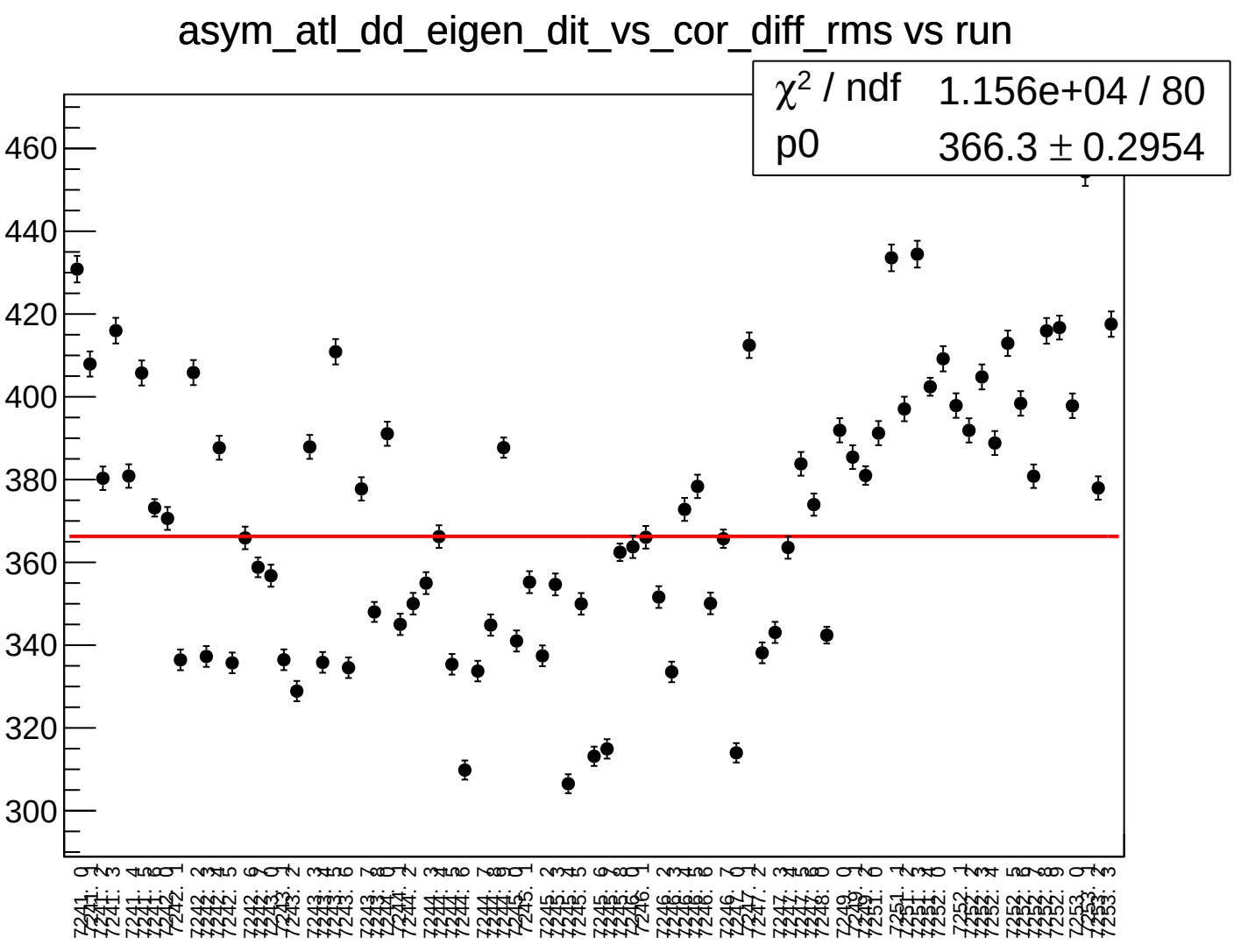

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.98 / 80
p0 5.731e−06 ± 1.381e−05
pull
Entries 81
Mean −23.69
Std Dev 0

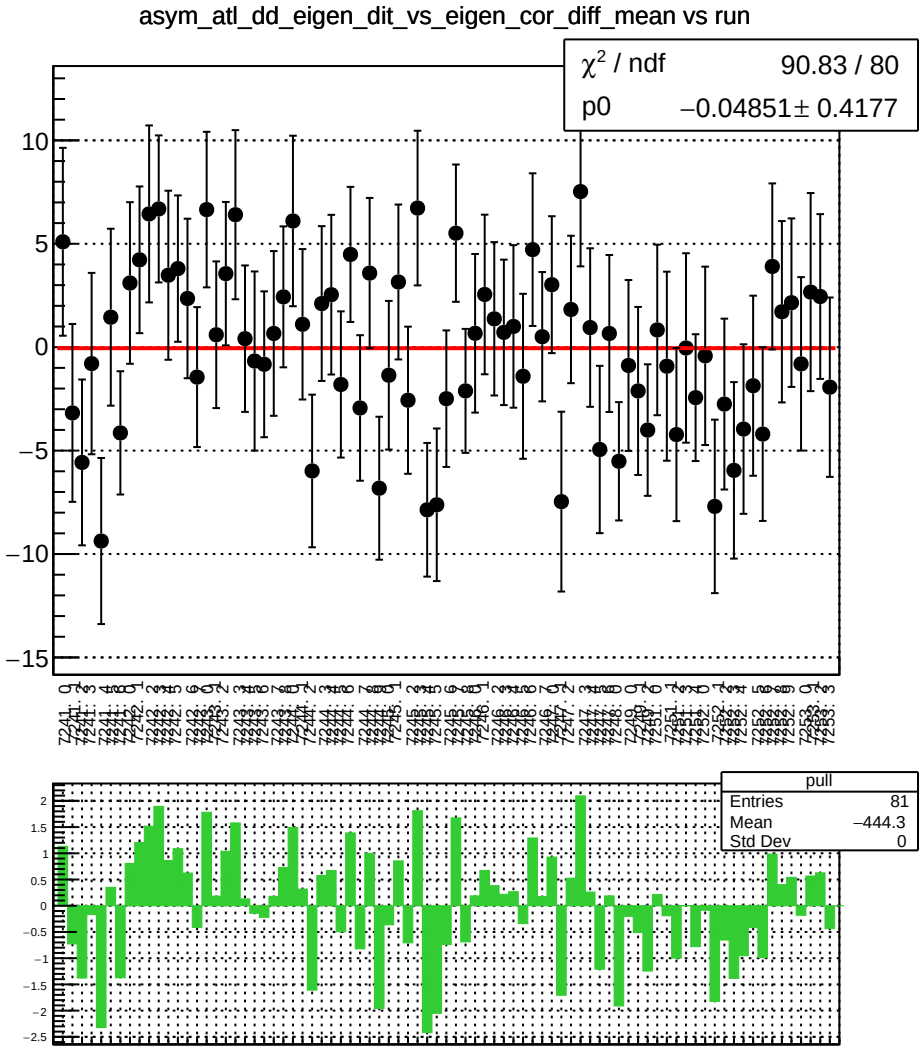

pull1D
Entries 81
Mean −0.06309
Std Dev 1.098

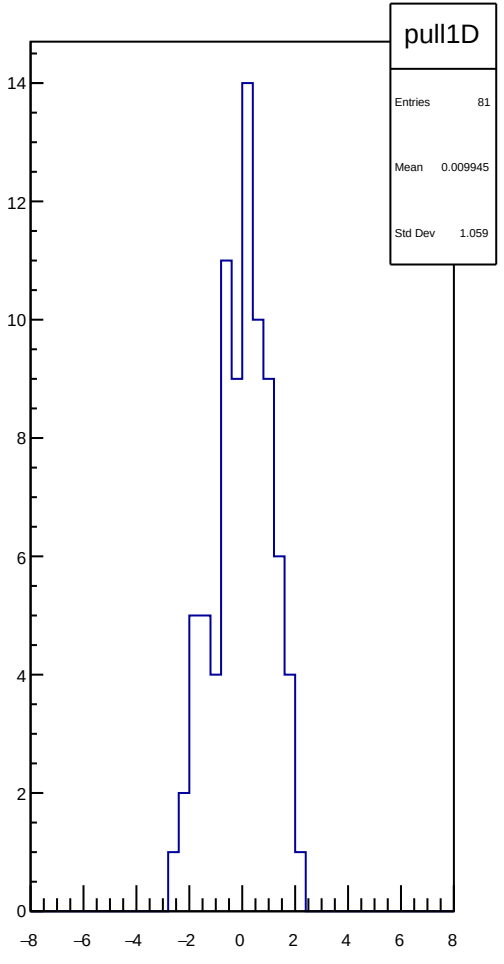

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.024e+05 / 80
p0 0.01175 ± 9.769e–06
0.018
0.016
0.014
0.012
0.01
0.008

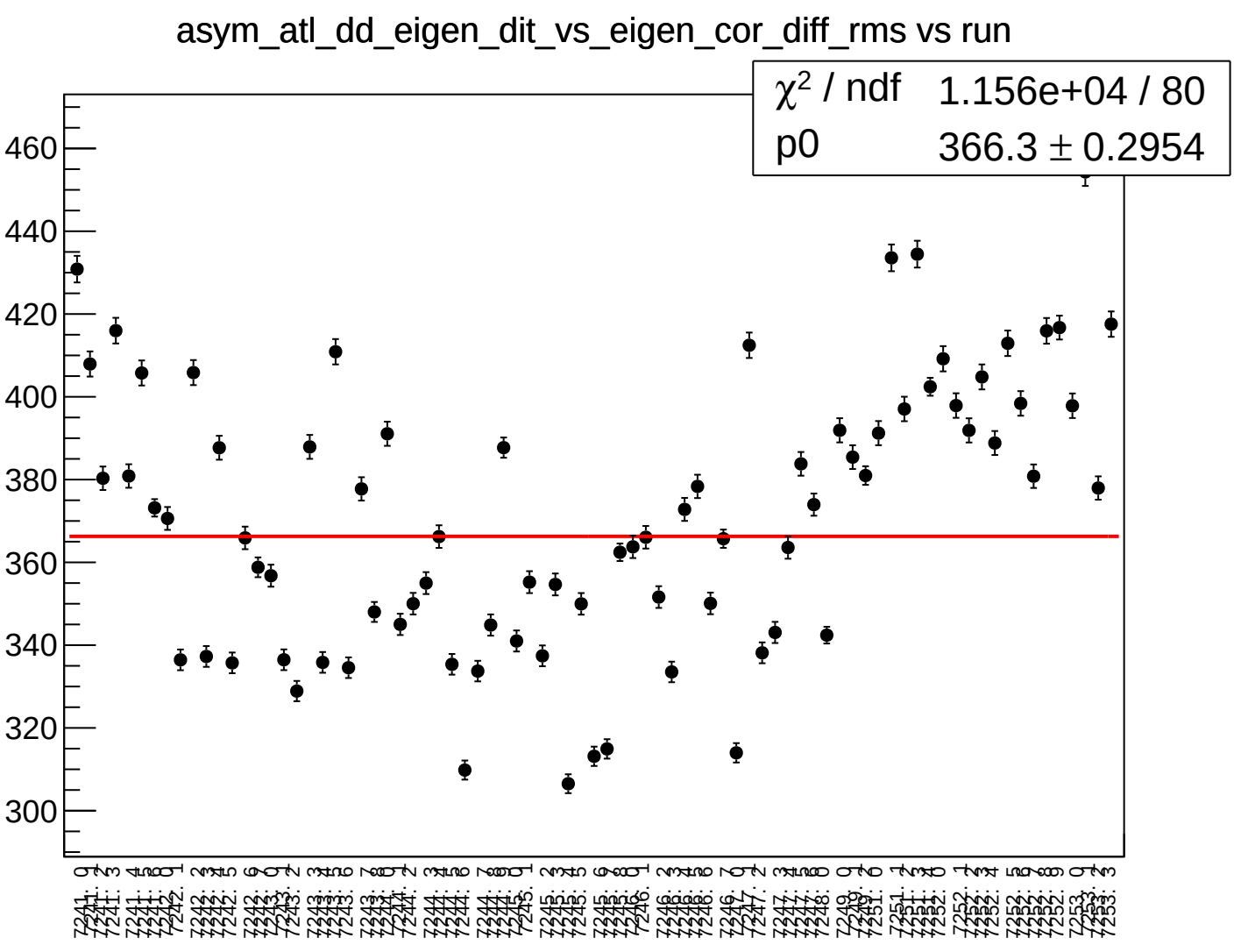

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.83 / 80
p0 −0.04851 ± 0.4177
pull
Entries 81
Mean −444.3
Std Dev 0

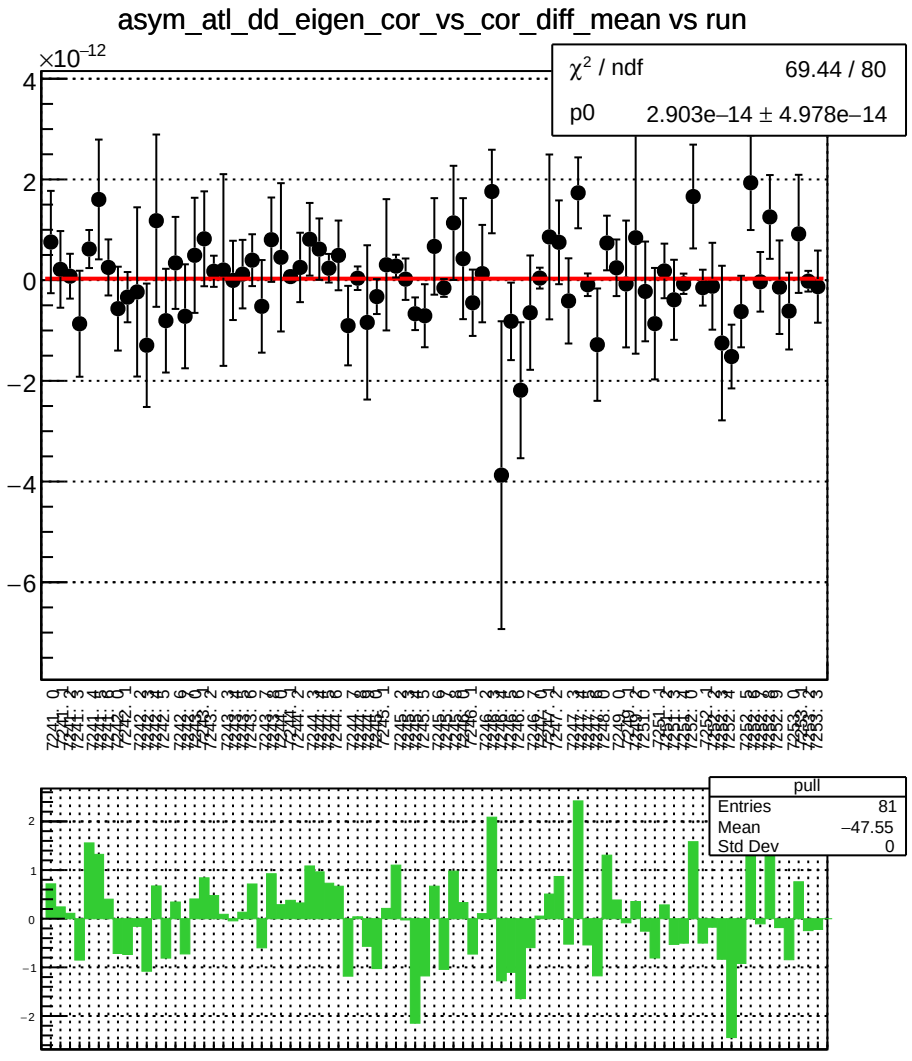

pull1D
Entries 81
Mean 0.009945
Std Dev 1.059

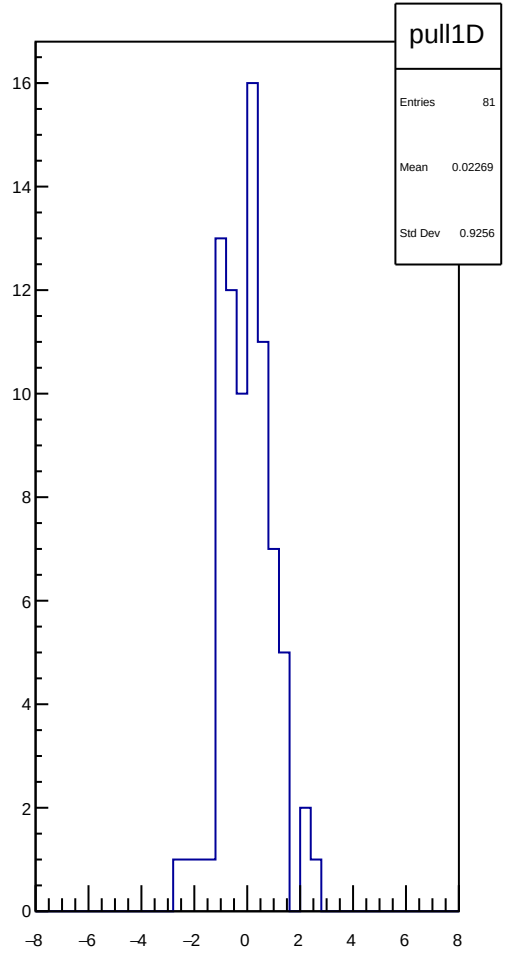

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.156e+04 / 80
p0 366.3 ± 0.2954
460
440
420
400
380
360
340
320
300

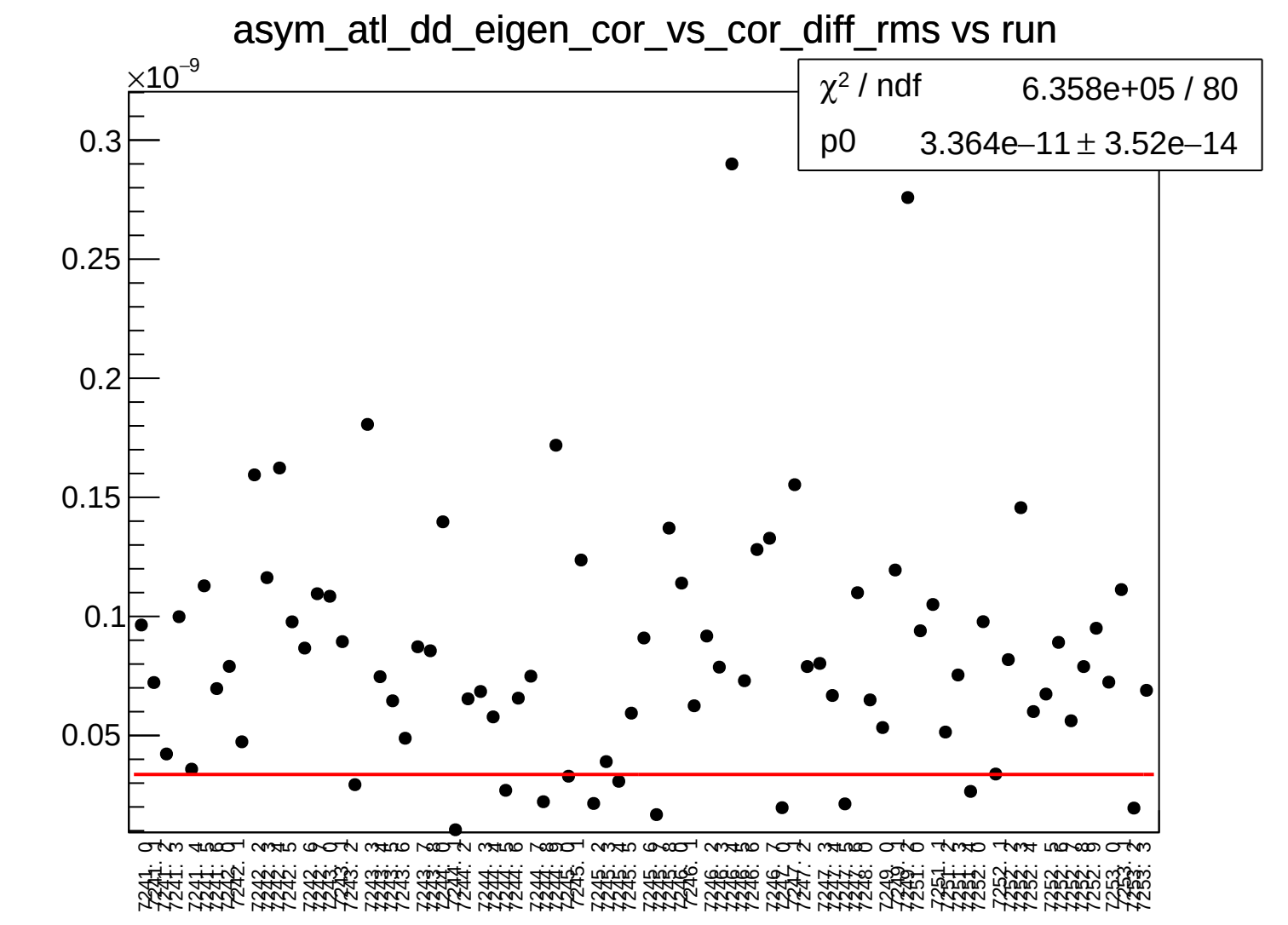

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.83 / 80
p0 −0.04851 ± 0.4177
pull
Entries 81
Mean −444.3
Std Dev 0

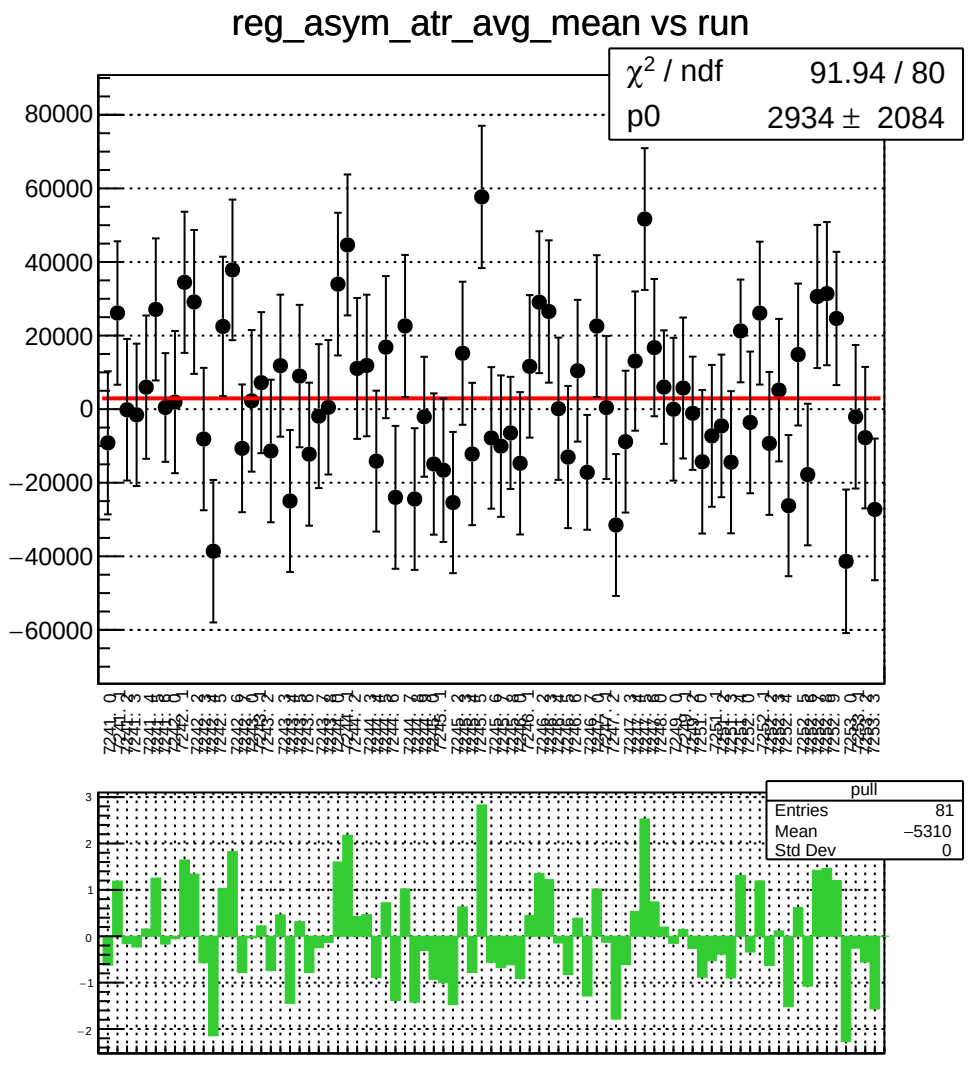

pull1D
Entries 81
Mean 0.009945
Std Dev 1.059

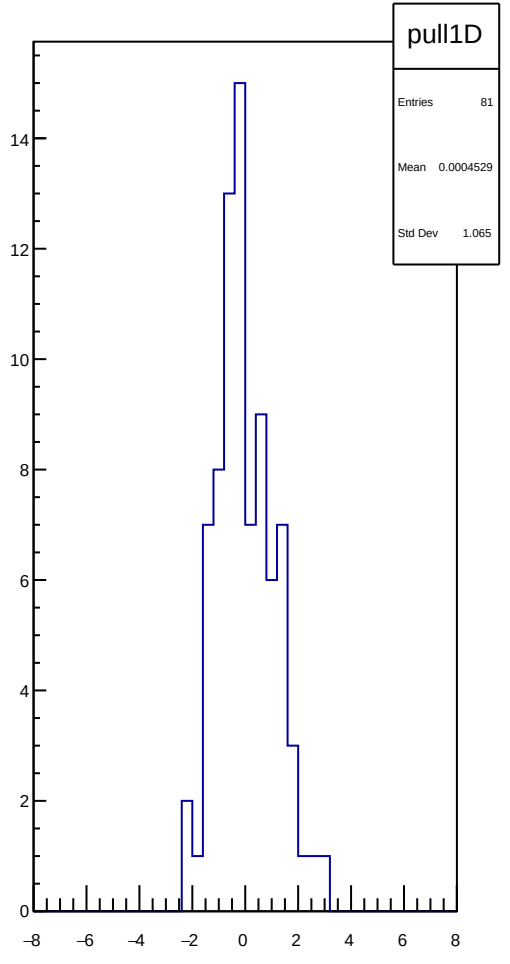

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.156e+04 / 80
p0 366.3 ± 0.2954
460
440
420
400
380
360
340
320
300

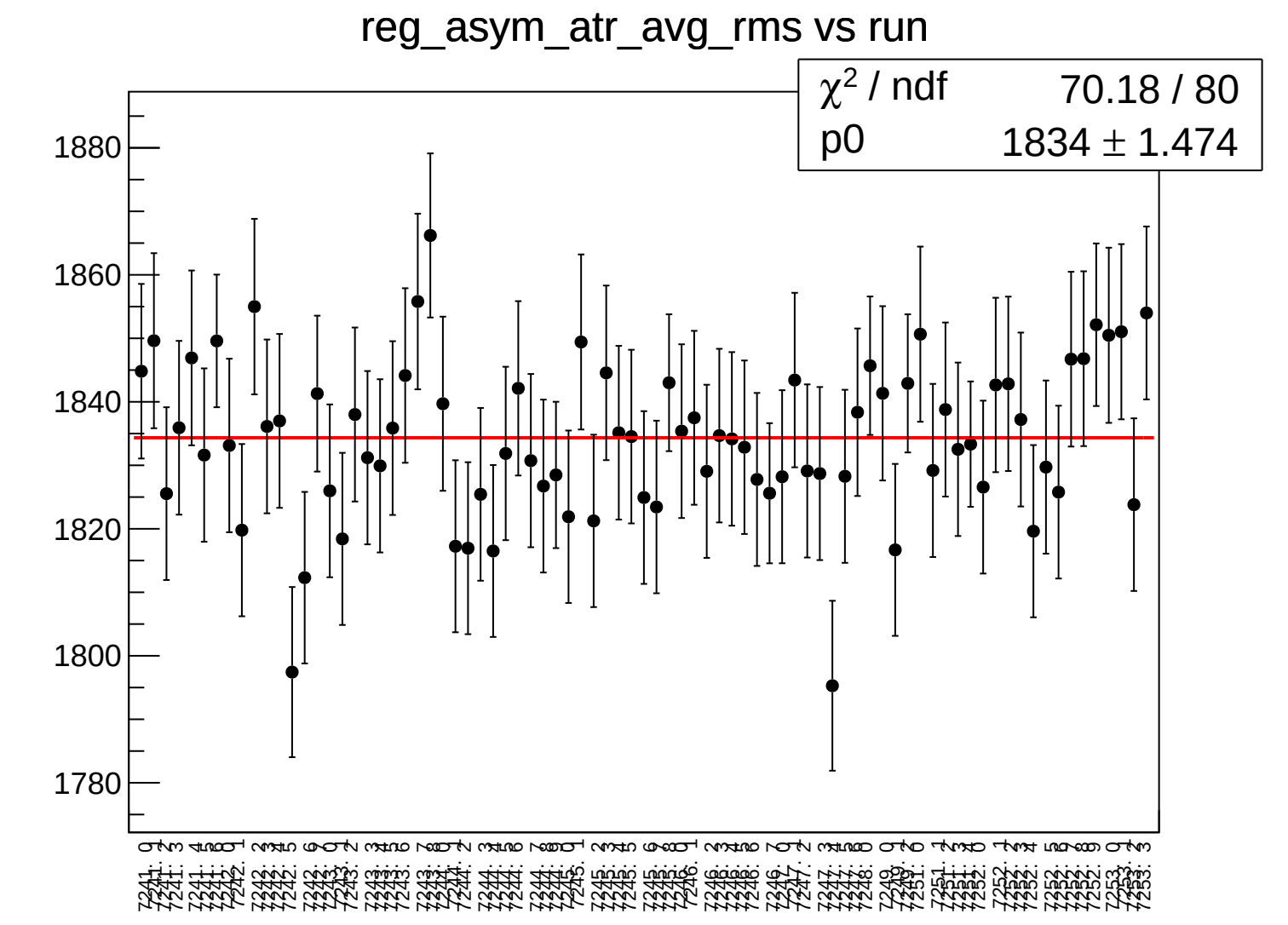

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 69.44 / 80
p0 2.903e−14 ± 4.978e−14
pull
Entries 81
Mean −47.55
Std Dev 0

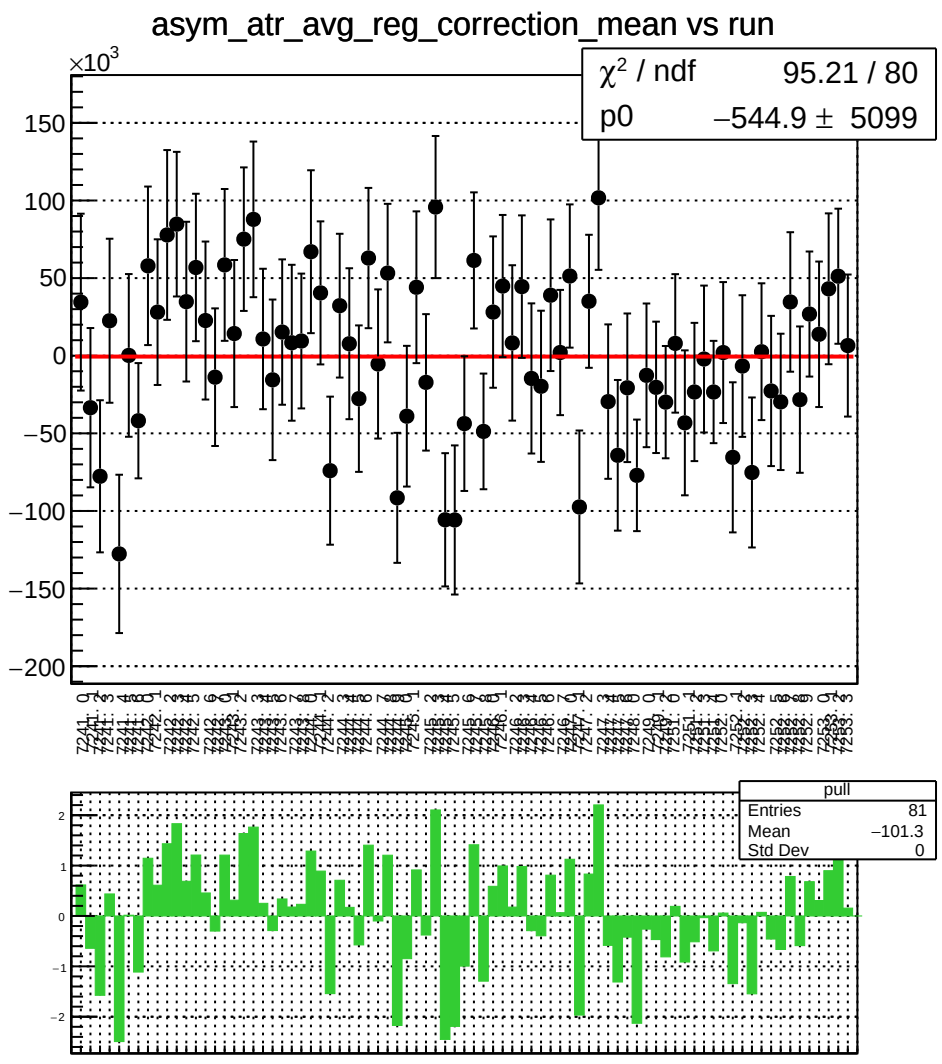

pull1D
Entries 81
Mean 0.02269
Std Dev 0.9256

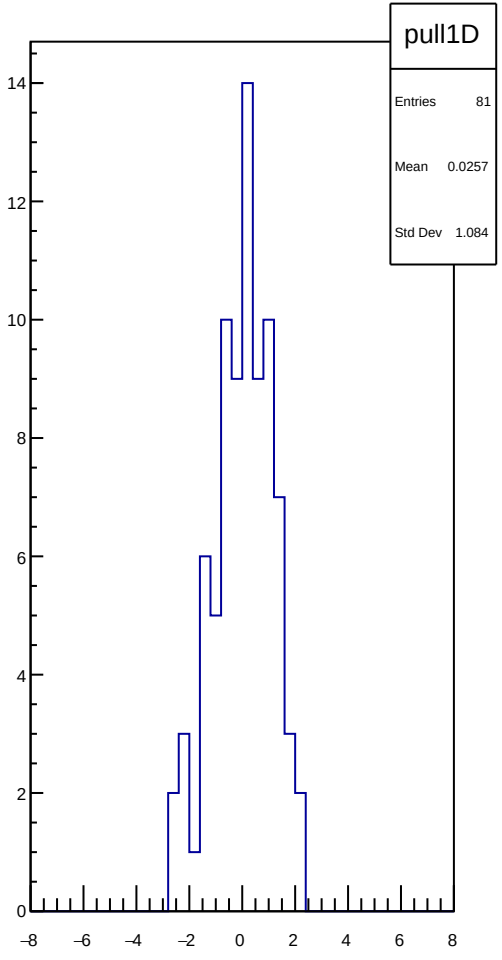

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.358e+05 / 80
p0 3.364e−11 ± 3.52e−14
0.3
0.25
0.2
0.15
0.1
0.05

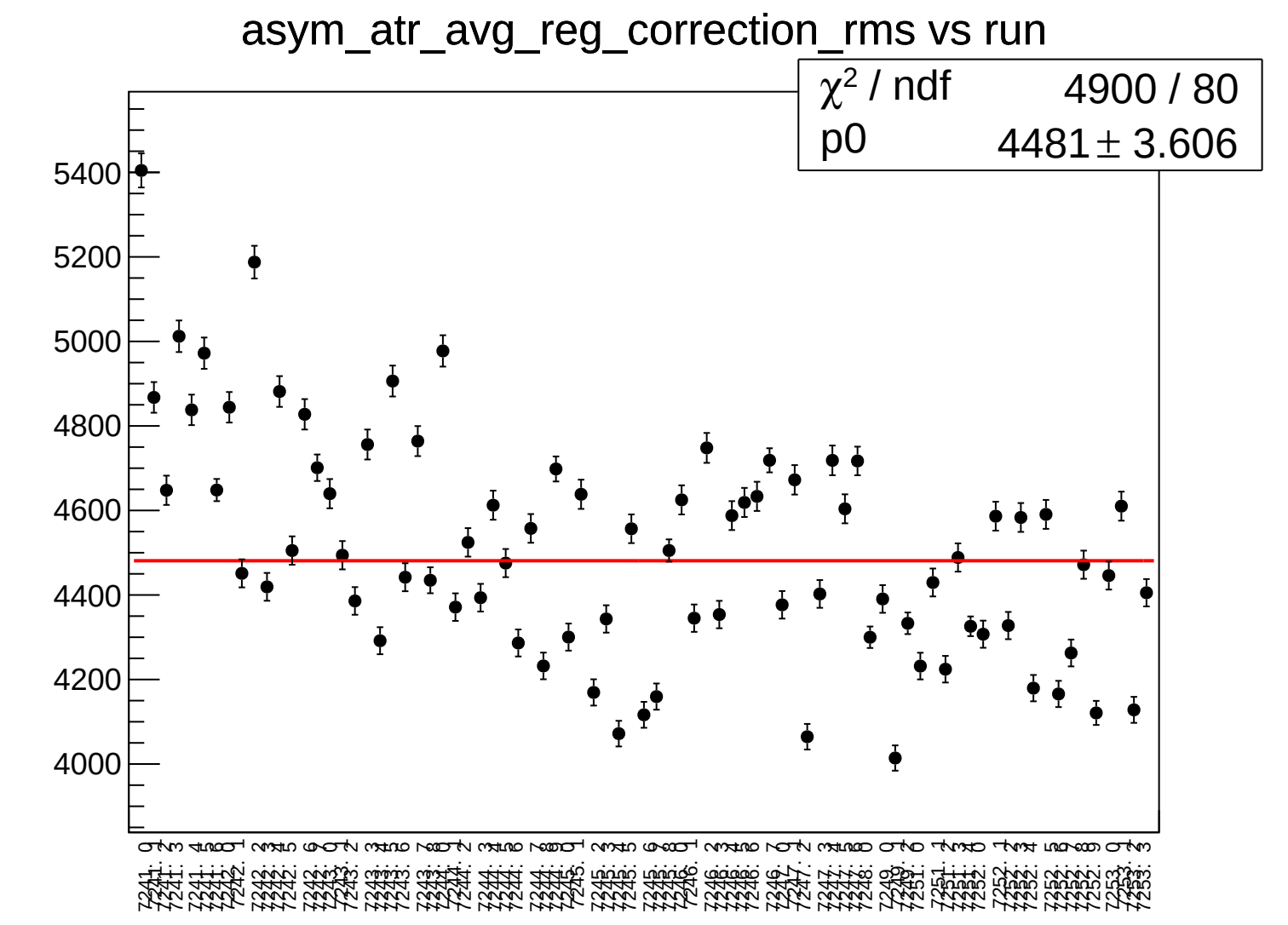

reg_asym_atr_avg_mean vs run
χ² / ndf 91.94 / 80
p0 2934 ± 2084
pull
Entries 81
Mean −5310
Std Dev 0

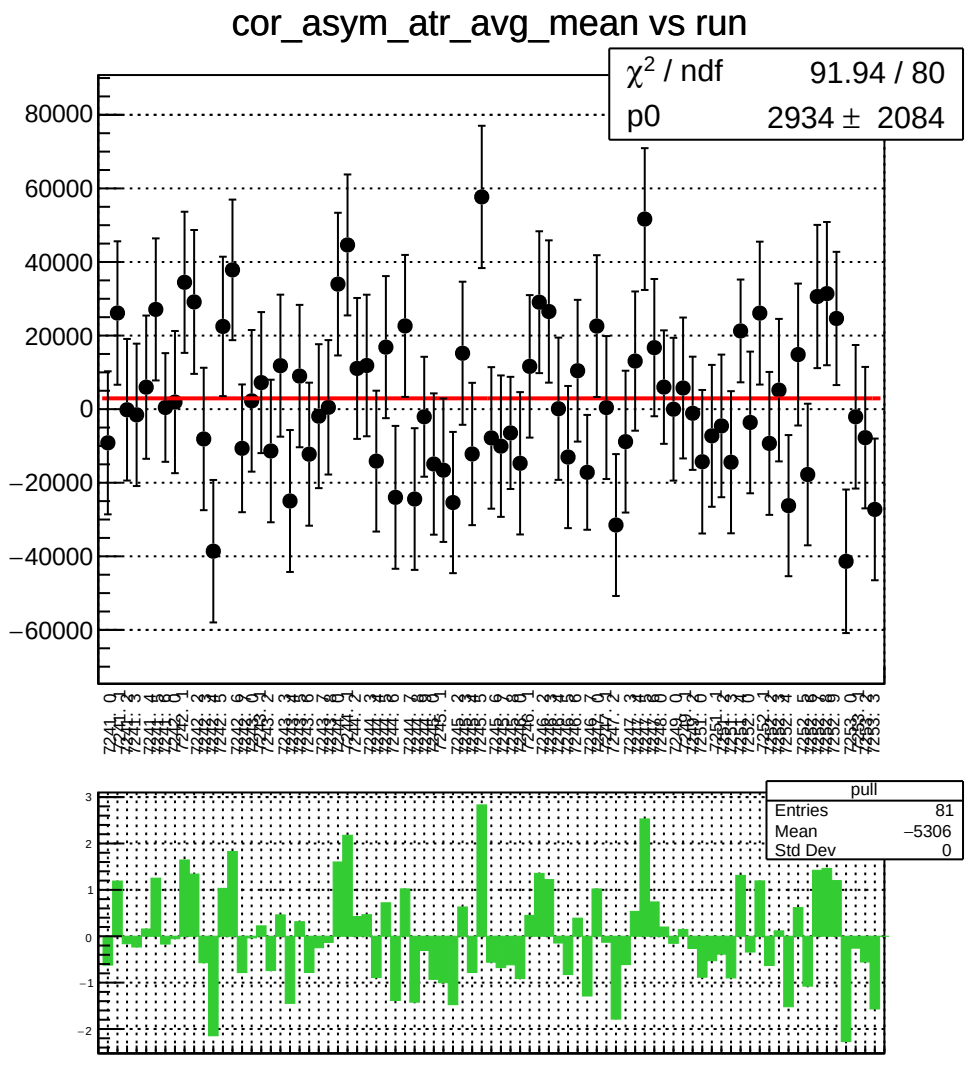

pull1D
Entries 81
Mean 0.0004529
Std Dev 1.065

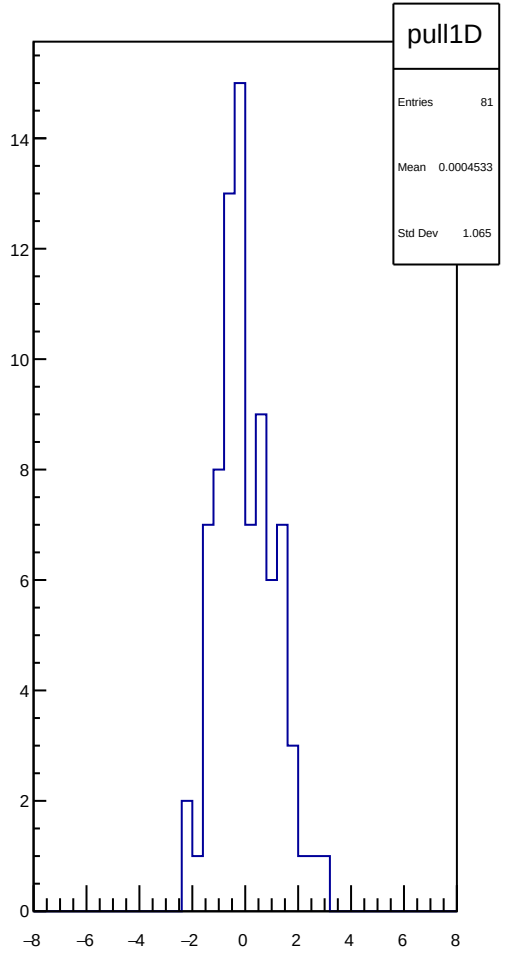

reg_asym_atr_avg_rms vs run
χ^2 / ndf 70.18 / 80
p0 1834 ± 1.474
1880
1860
1840
1820
1800
1780

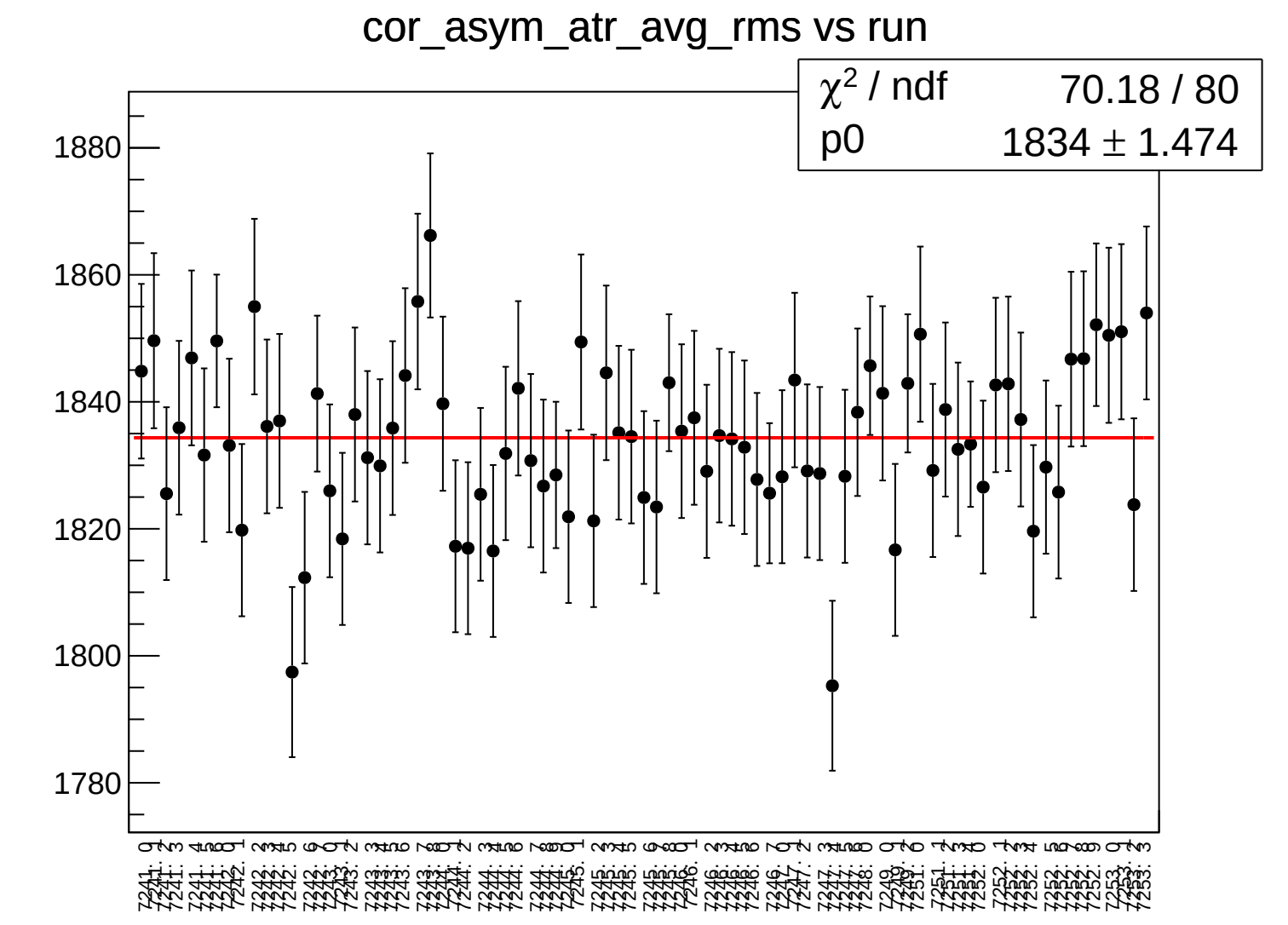

asym_atr_avg_reg_correction_mean vs run
×10^3
χ² / ndf 95.21 / 80
p0 −544.9 ± 5099
150
100
50
0
−50
−100
−150
−200
pull
Entries 81
Mean −101.3
Std Dev 0
2
1
0
−1
−2

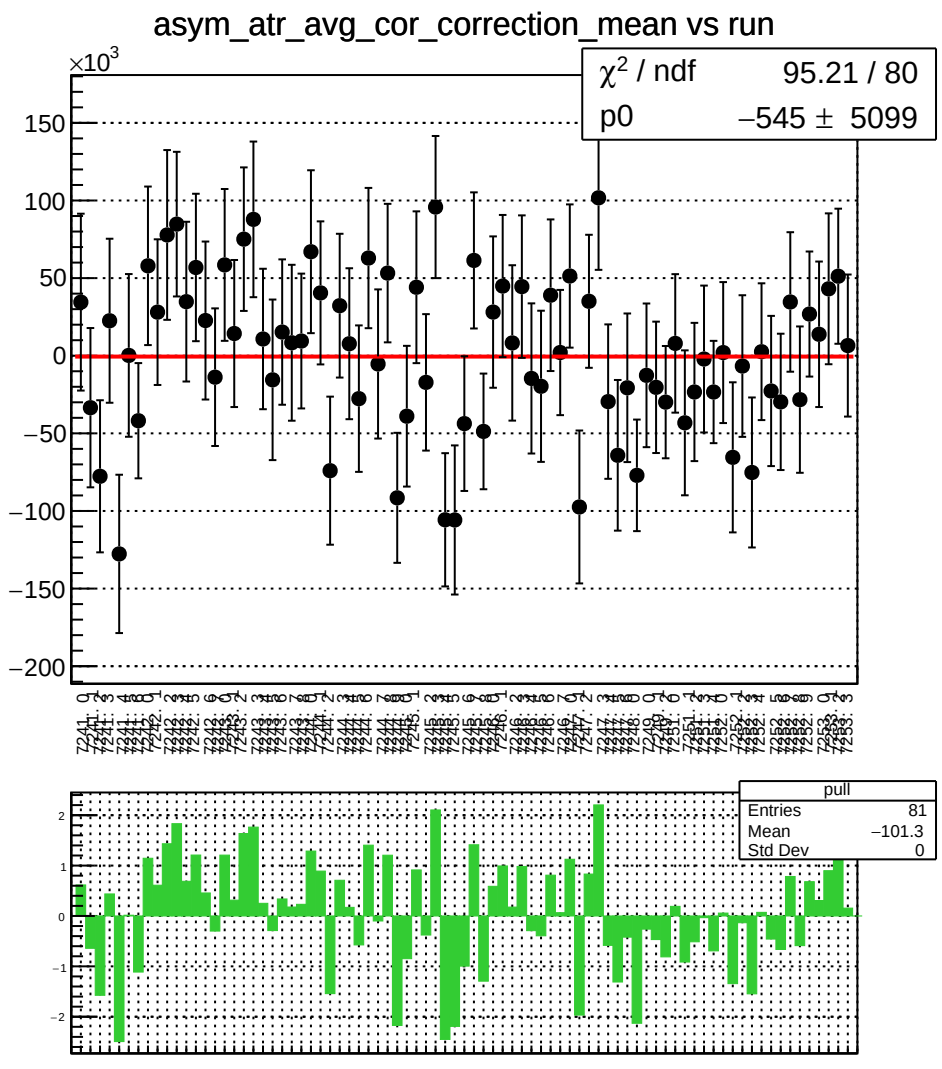

pull1D
Entries 81
Mean 0.0257
Std Dev 1.084
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

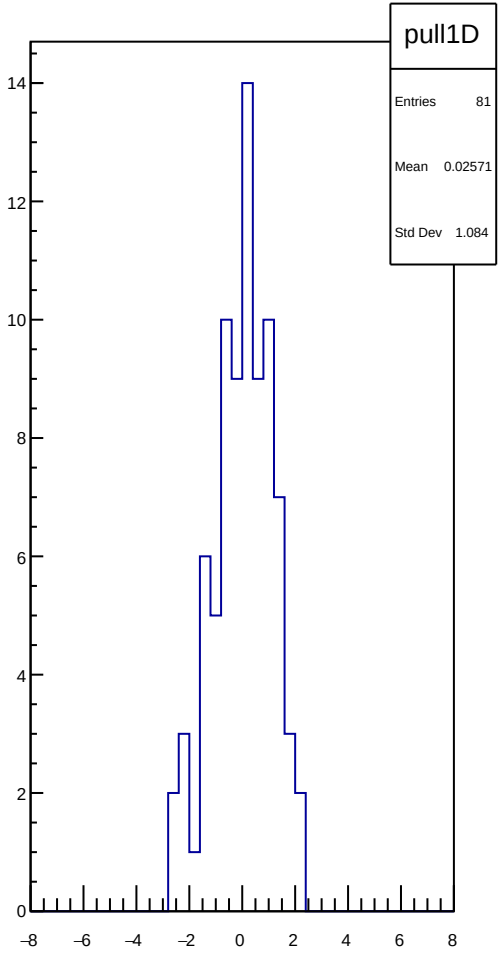

asym_atr_avg_reg_correction_rms vs run
χ² / ndf 4900 / 80
p0 4481 ± 3.606
5400
5200
5000
4800
4600
4400
4200
4000

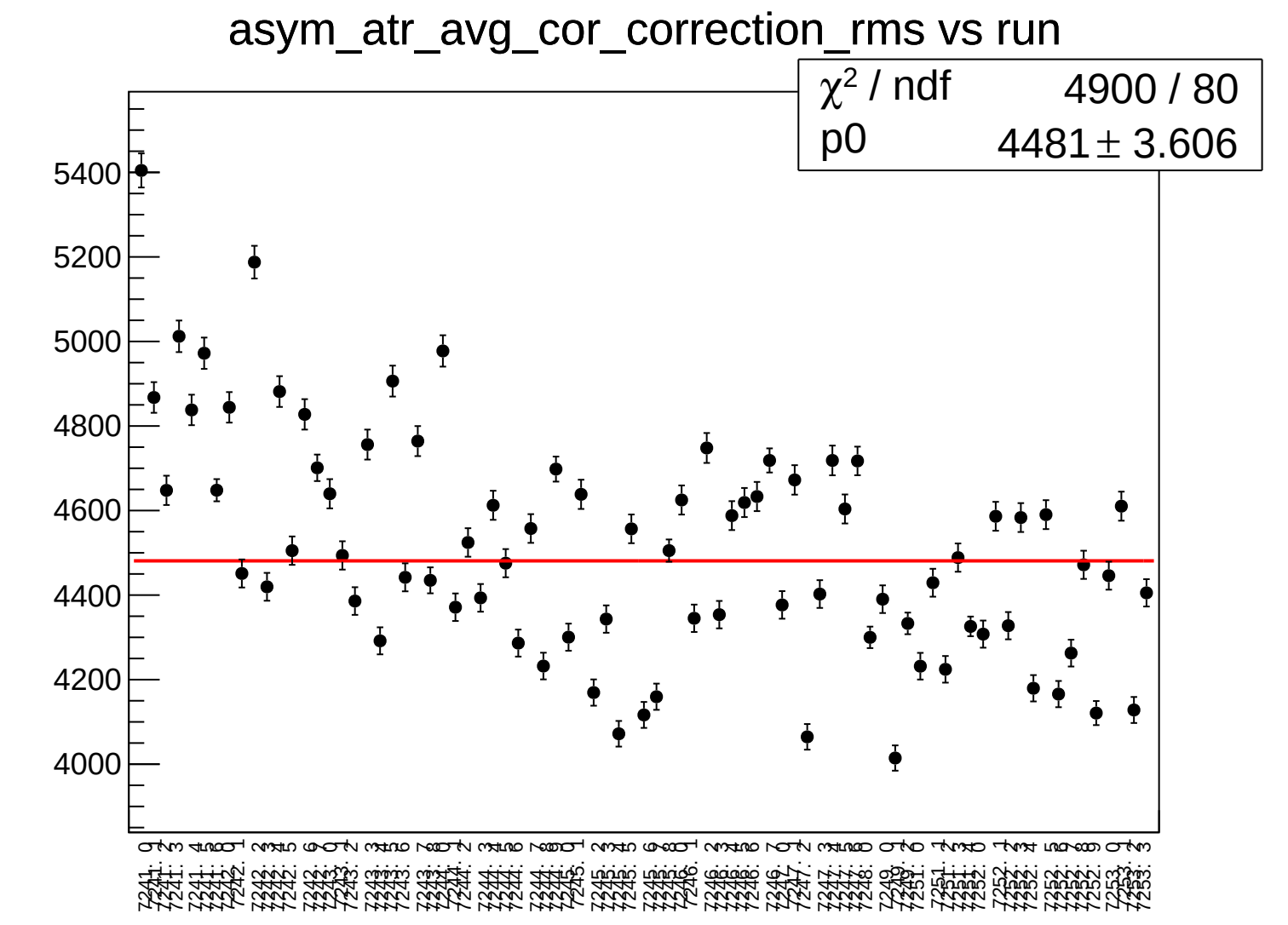

cor_asym_atr_avg_mean vs run
χ² / ndf 91.94 / 80
p0 2934 ± 2084
pull
Entries 81
Mean −5306
Std Dev 0

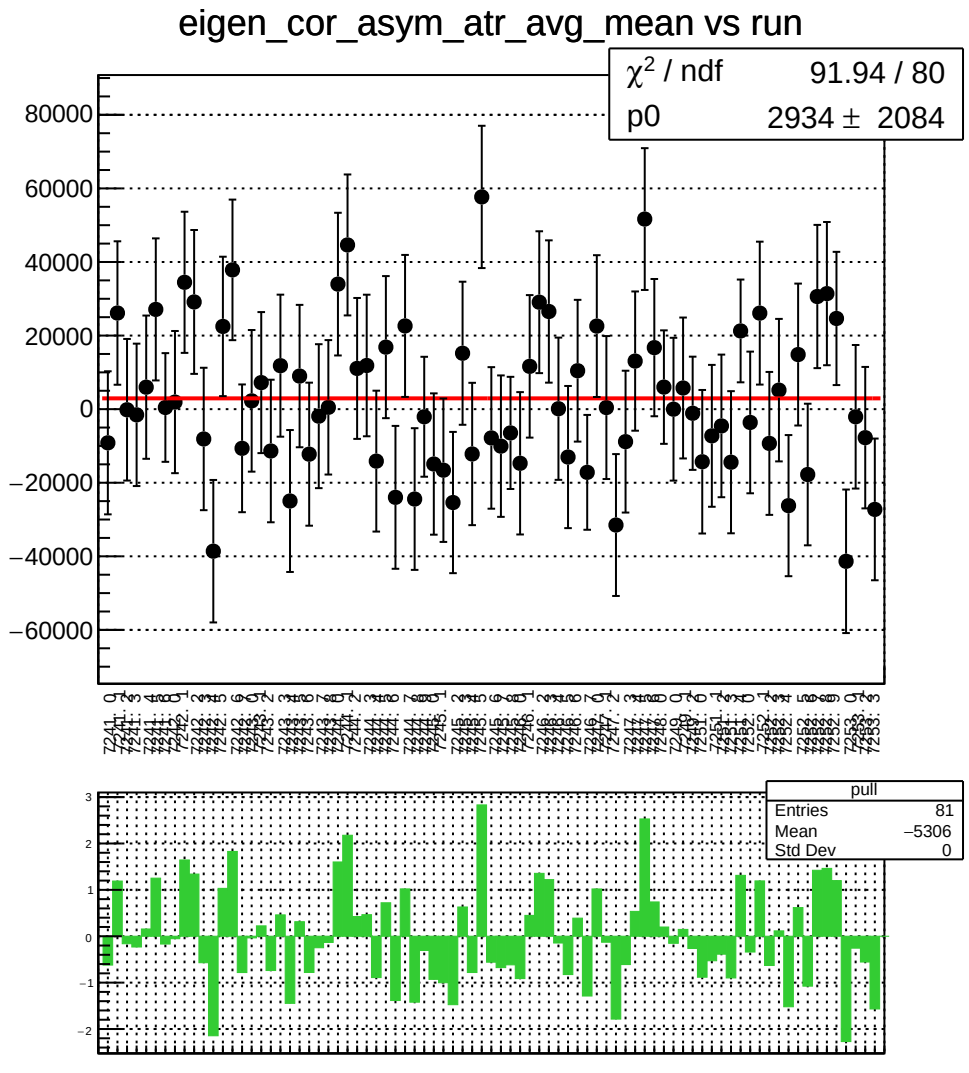

pull1D
Entries 81
Mean 0.0004533
Std Dev 1.065

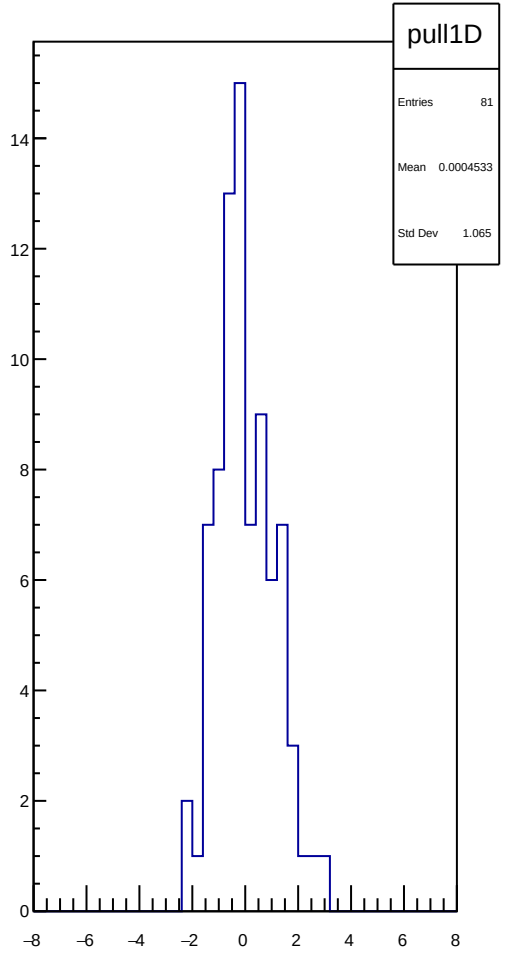

cor_asym_atr_avg_rms vs run
χ^2 / ndf 70.18 / 80
p0 1834 ± 1.474
1880
1860
1840
1820
1800
1780

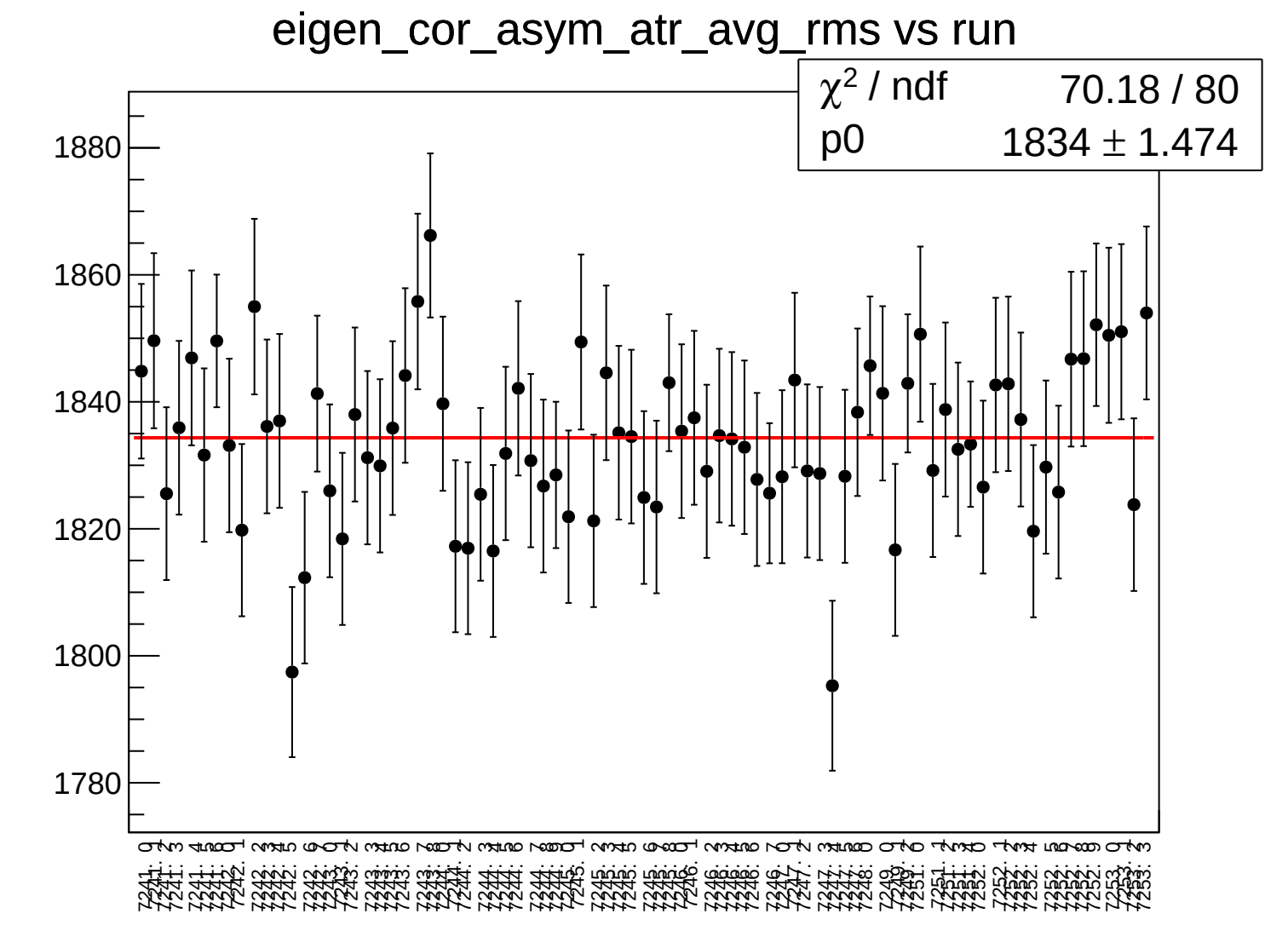

asym_atr_avg_cor_correction_mean vs run
χ² / ndf 95.21 / 80
p0 −545 ± 5099
pull
Entries 81
Mean −101.3
Std Dev 0

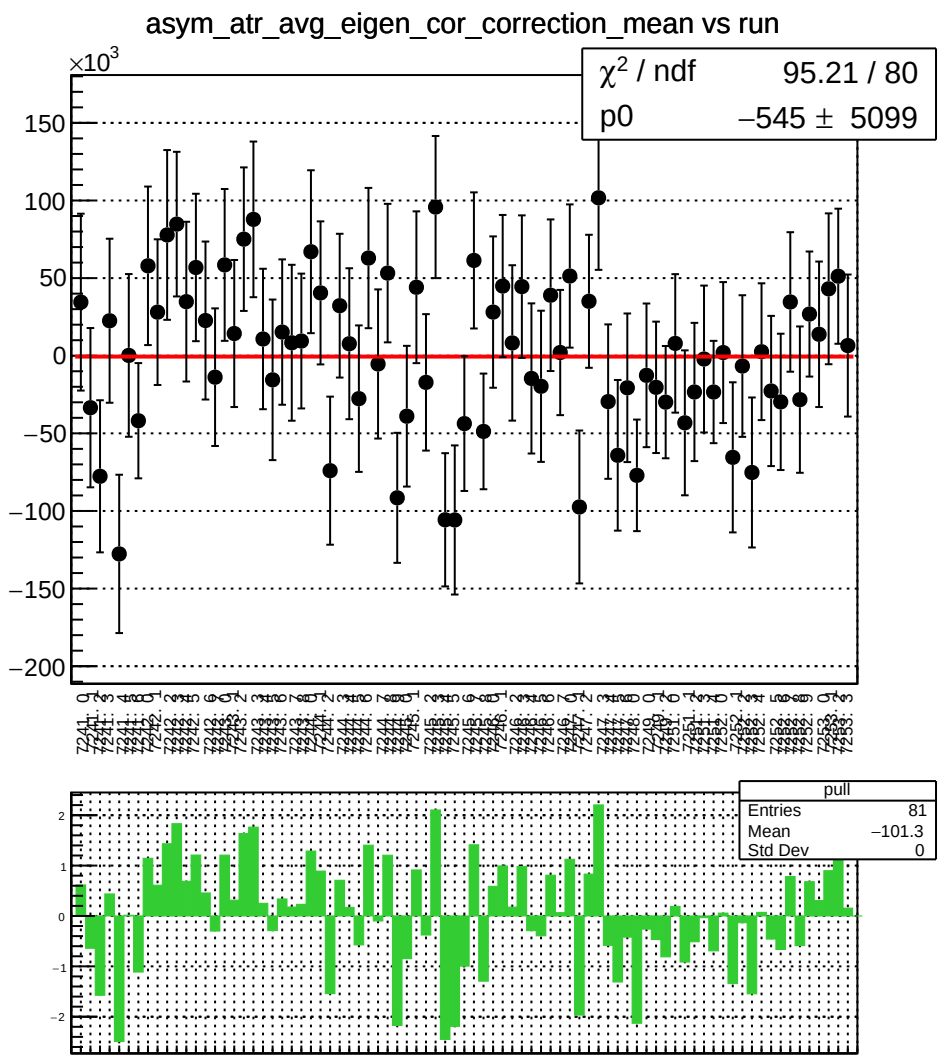

pull1D
Entries 81
Mean 0.02571
Std Dev 1.084

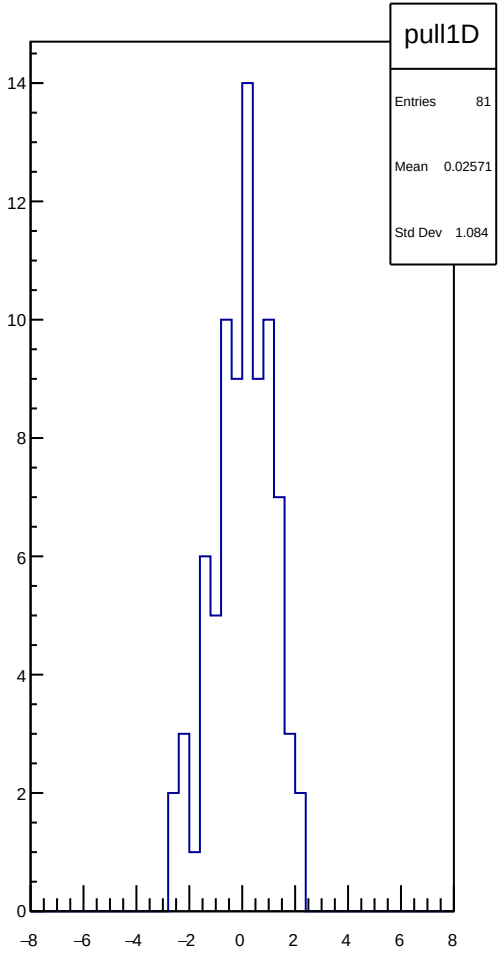

asym_atr_avg_cor_correction_rms vs run
χ² / ndf 4900 / 80
p0 4481 ± 3.606
5400
5200
5000
4800
4600
4400
4200
4000

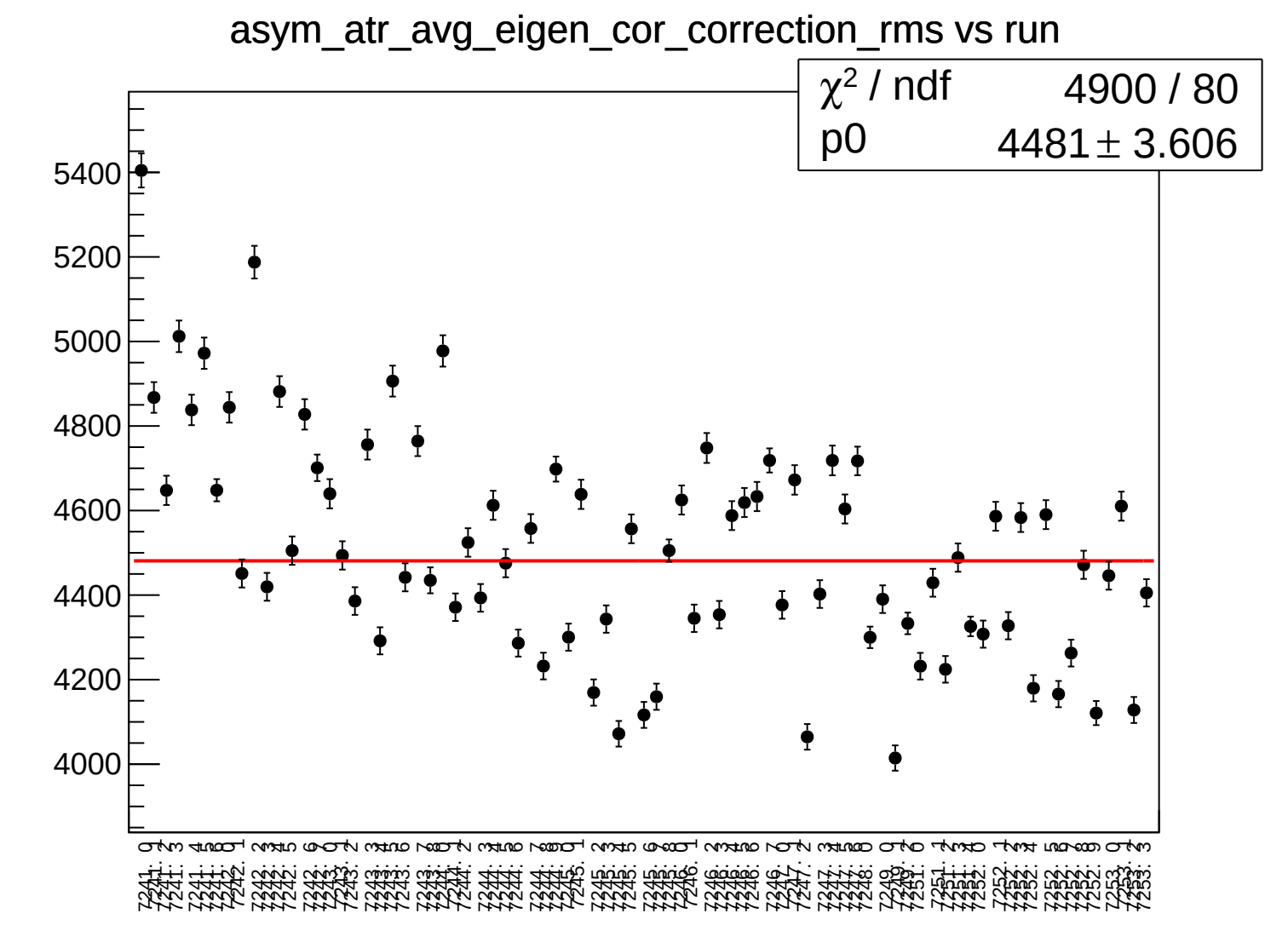

eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 91.94 / 80
p0 2934 ± 2084
pull
Entries 81
Mean −5306
Std Dev 0

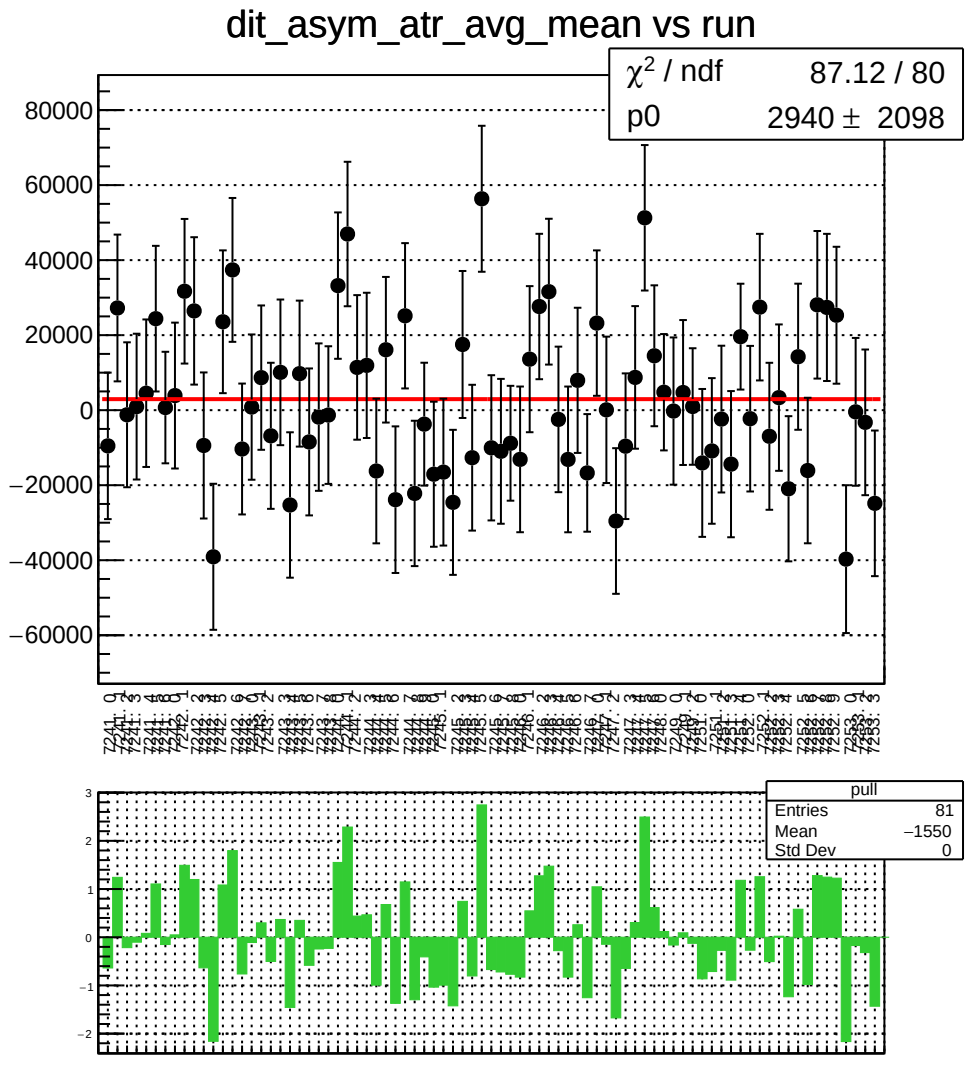

pull1D
Entries 81
Mean 0.0004533
Std Dev 1.065

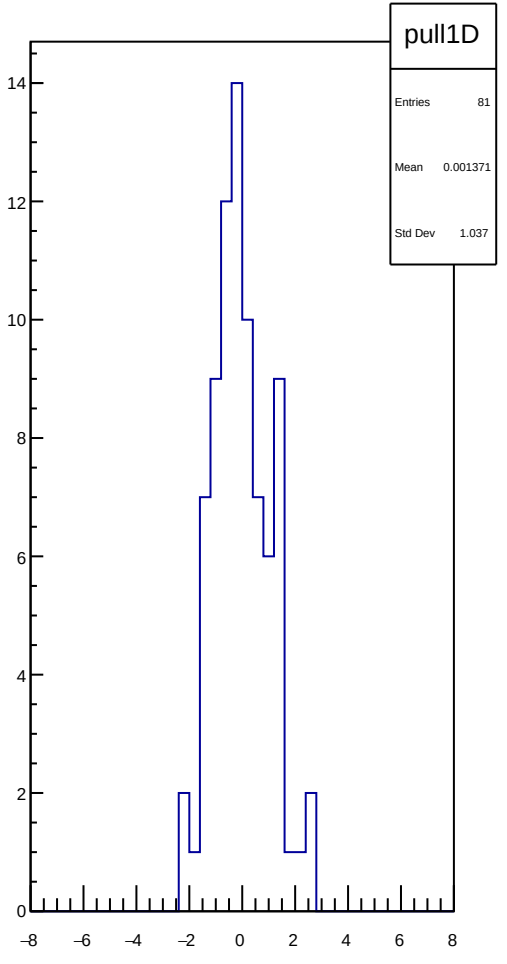

eigen_cor_asym_atr_avg_rms vs run
χ² / ndf 70.18 / 80
p0 1834 ± 1.474
1880
1860
1840
1820
1800
1780

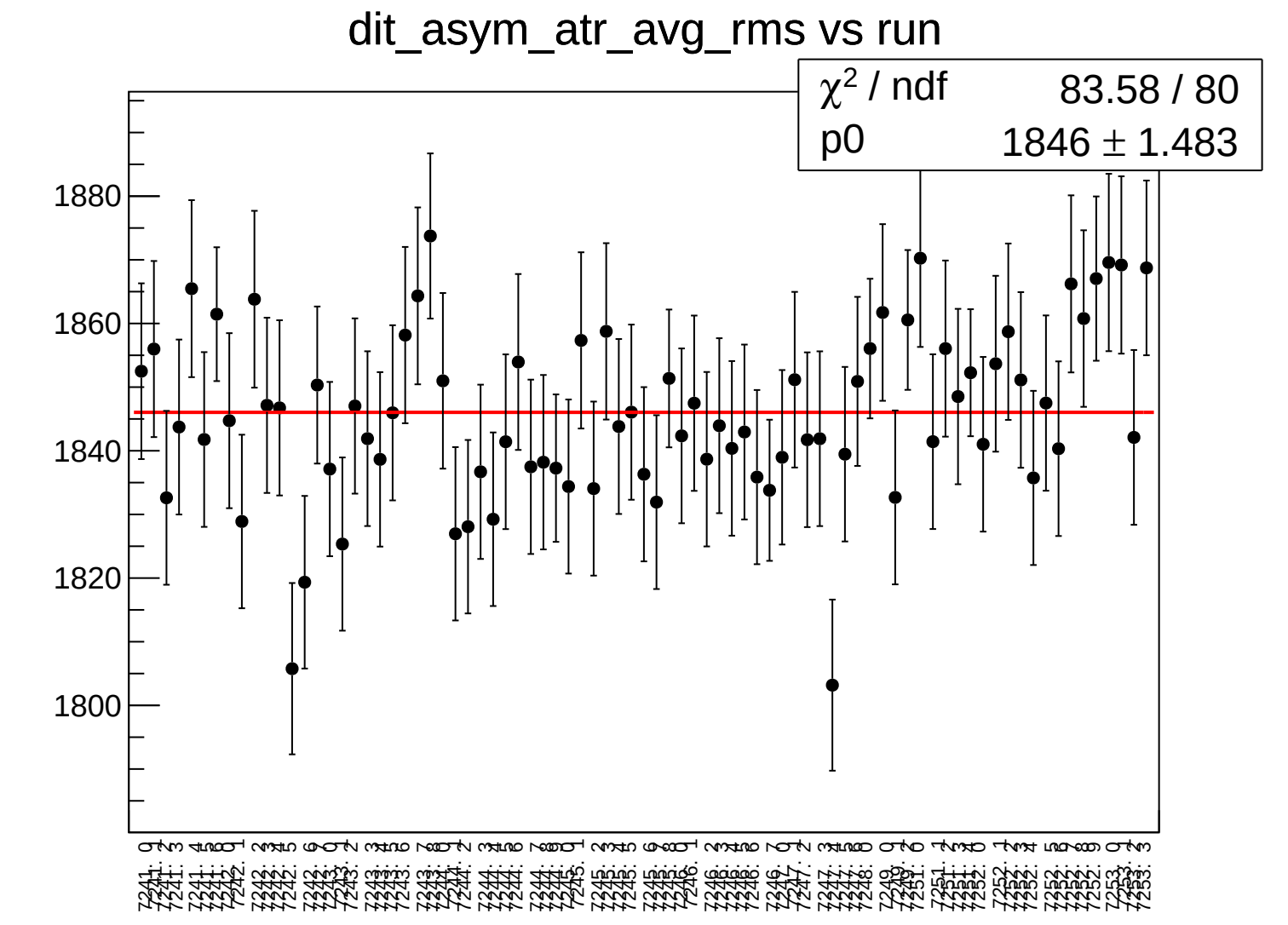

asym_atr_avg_eigen_cor_correction_mean vs run
χ² / ndf 95.21 / 80
p0 −545 ± 5099
×10³
pull
Entries 81
Mean −101.3
Std Dev 0

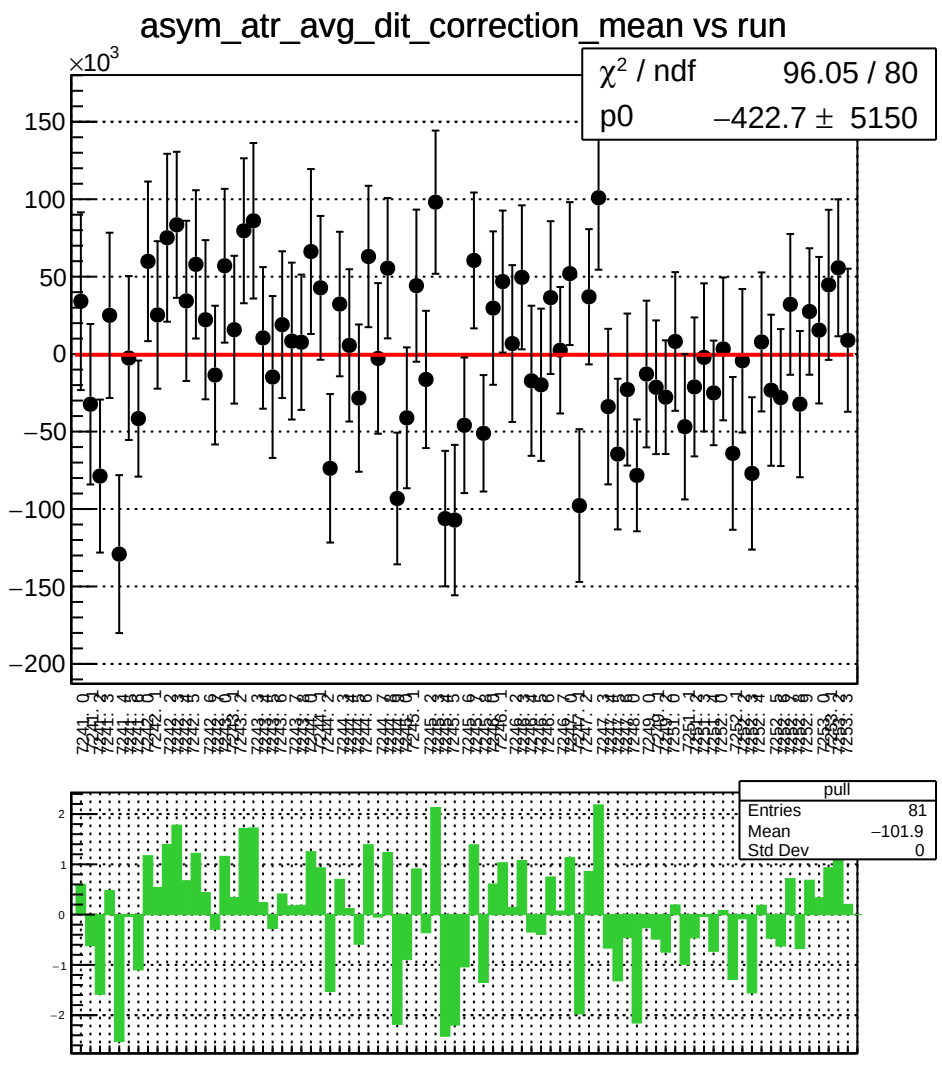

pull1D
Entries 81
Mean 0.02571
Std Dev 1.084

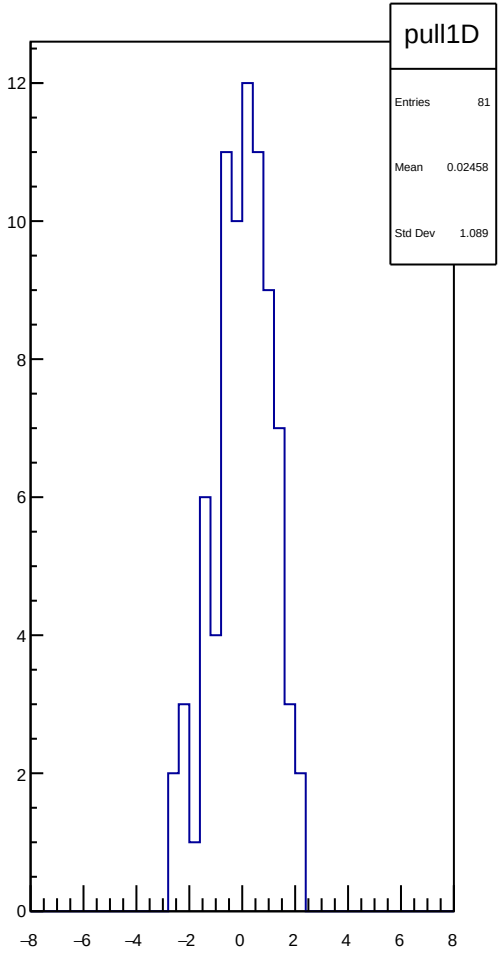

asym_atr_avg_eigen_cor_correction_rms vs run
χ² / ndf 4900 / 80
p0 4481 ± 3.606
5400
5200
5000
4800
4600
4400
4200
4000

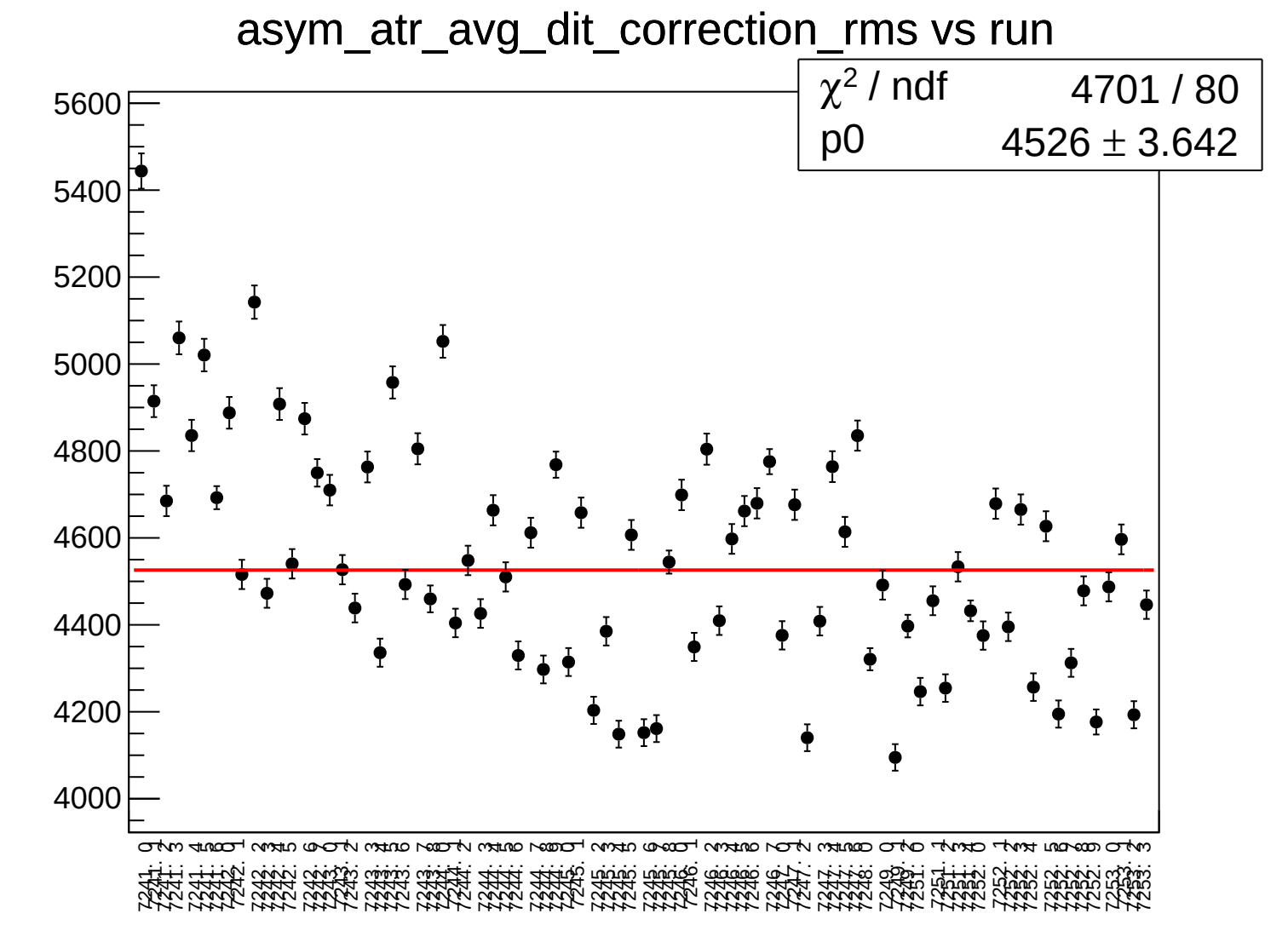

dit_asym_atr_avg_mean vs run
χ² / ndf 87.12 / 80
p0 2940 ± 2098
pull
Entries 81
Mean −1550
Std Dev 0

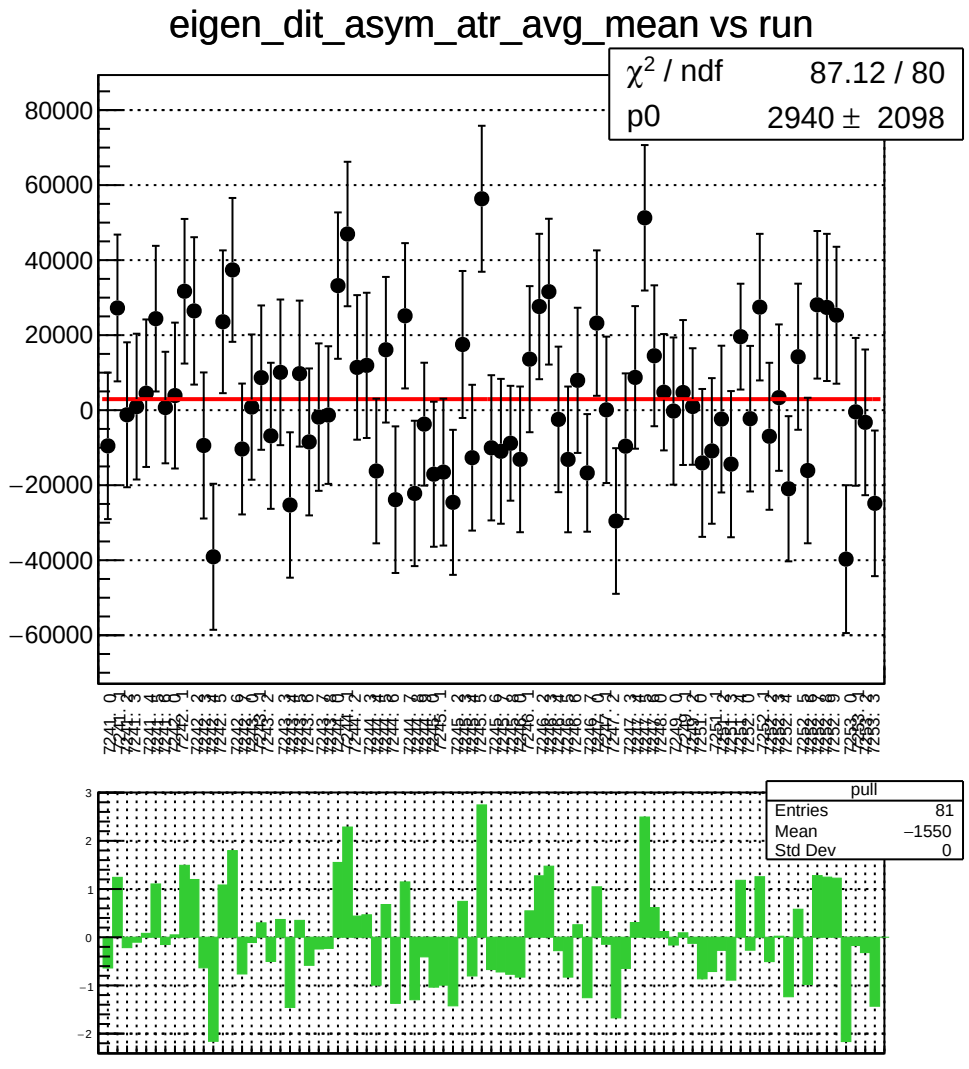

pull1D
Entries 81
Mean 0.001371
Std Dev 1.037

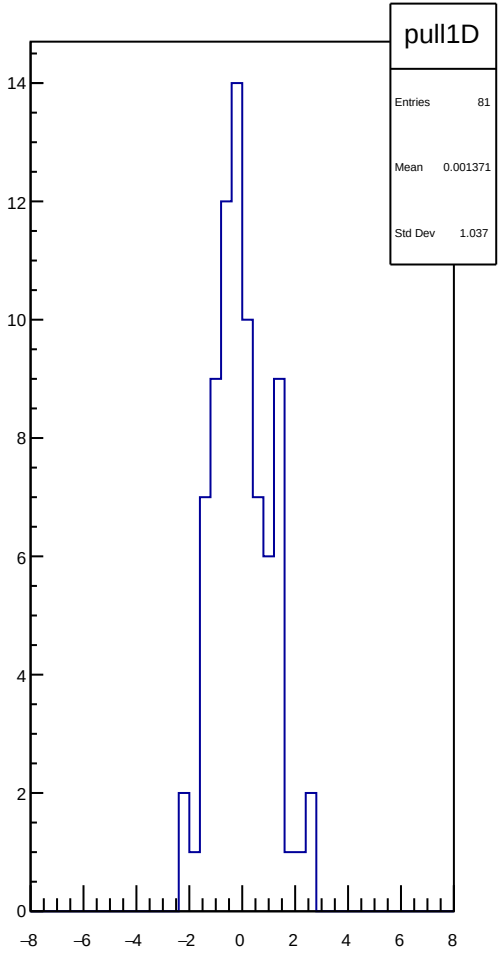

dit_asym_atr_avg_rms vs run
χ² / ndf 83.58 / 80
p0 1846 ± 1.483
1880
1860
1840
1820
1800

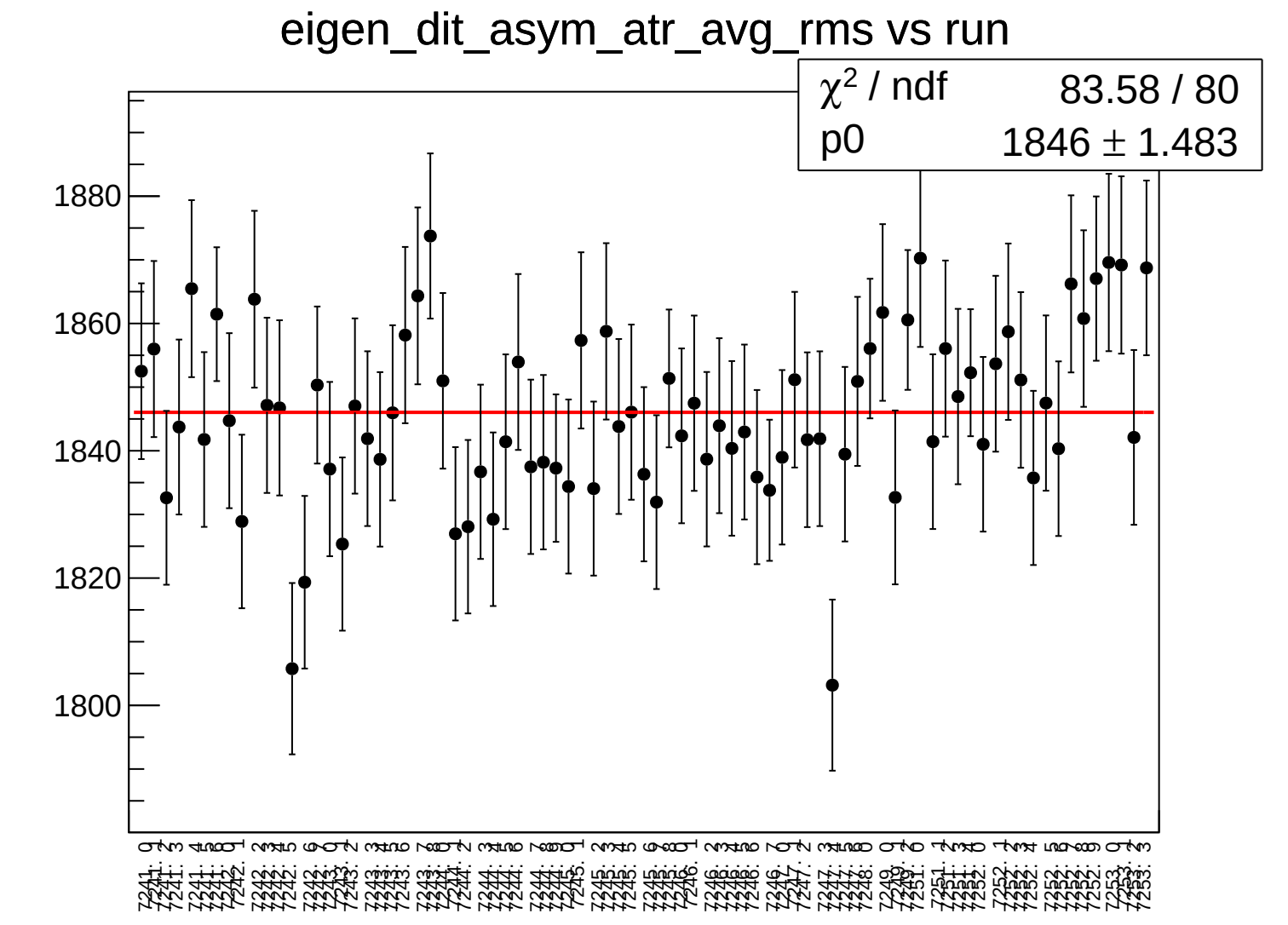

asym_atr_avg_dit_correction_mean vs run
×10^3
χ² / ndf 96.05 / 80
p0 −422.7 ± 5150
150
100
50
0
−50
−100
−150
−200
pull
Entries 81
Mean −101.9
Std Dev 0
2
1
0
−1
−2

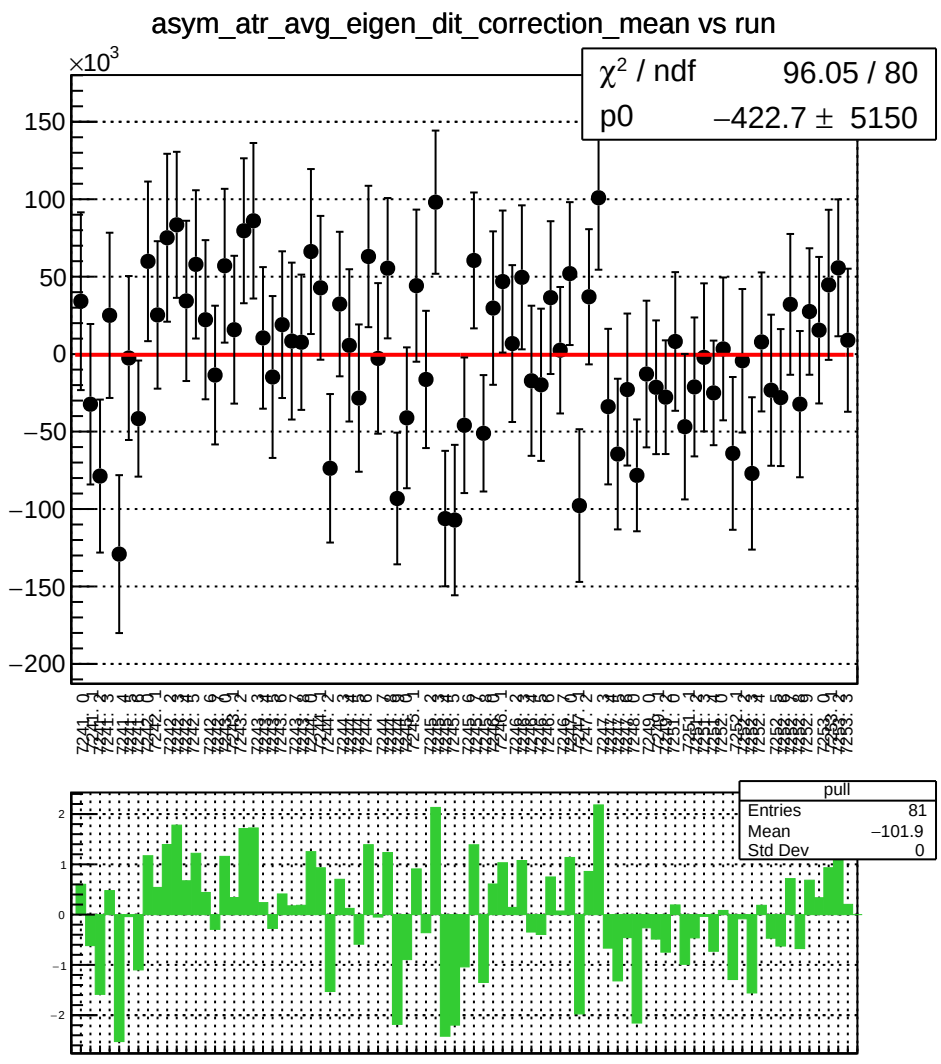

pull1D
Entries 81
Mean 0.02458
Std Dev 1.089
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

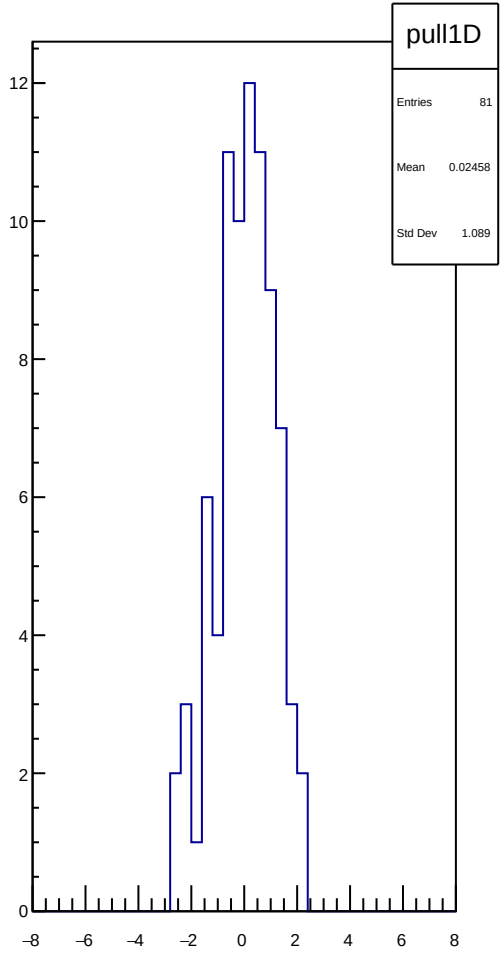

asym_atr_avg_dit_correction_rms vs run
χ² / ndf 4701 / 80
p0 4526 ± 3.642
5600
5400
5200
5000
4800
4600
4400
4200
4000

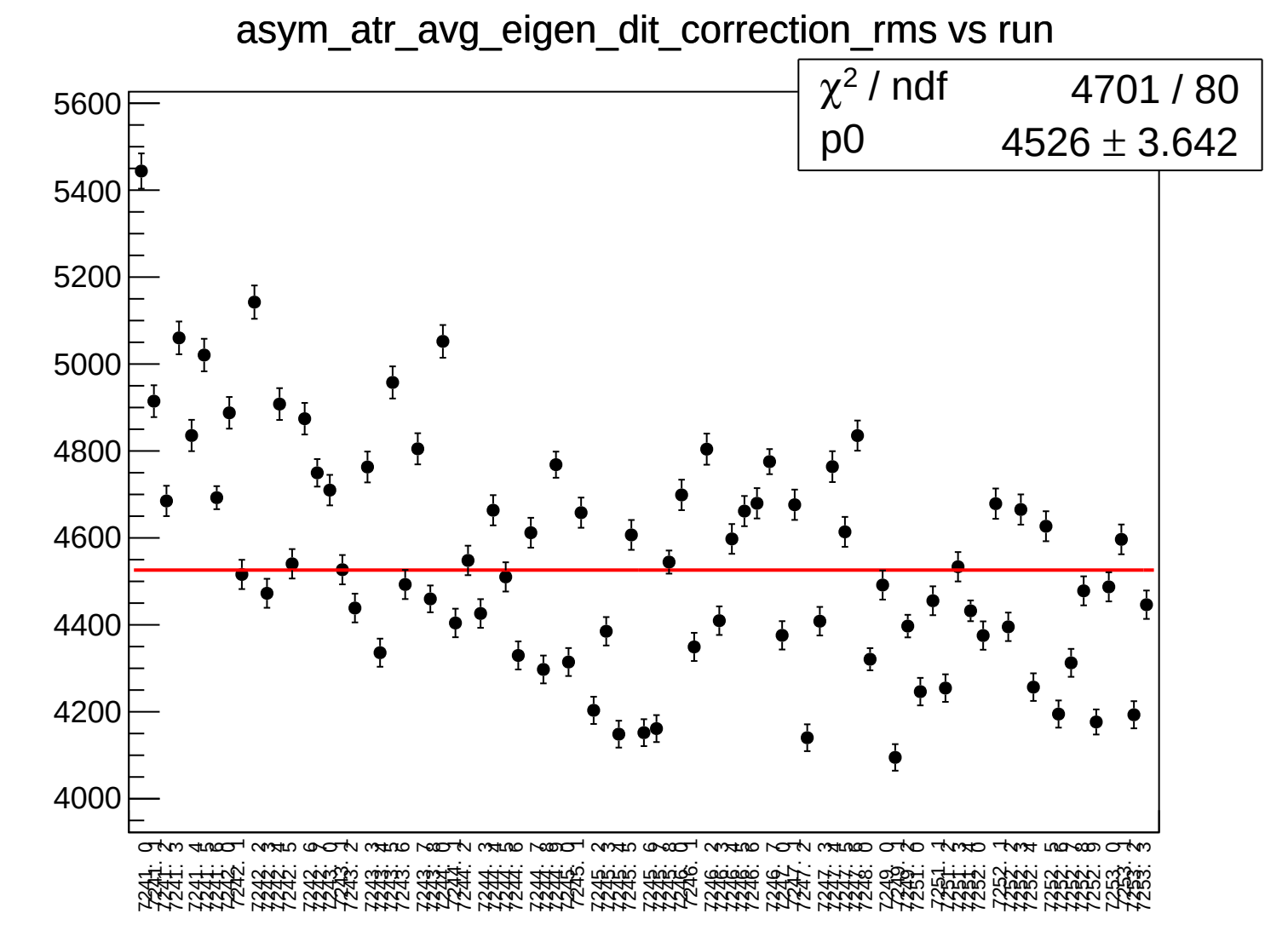

eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 87.12 / 80
p0 2940 ± 2098
pull
Entries 81
Mean −1550
Std Dev 0

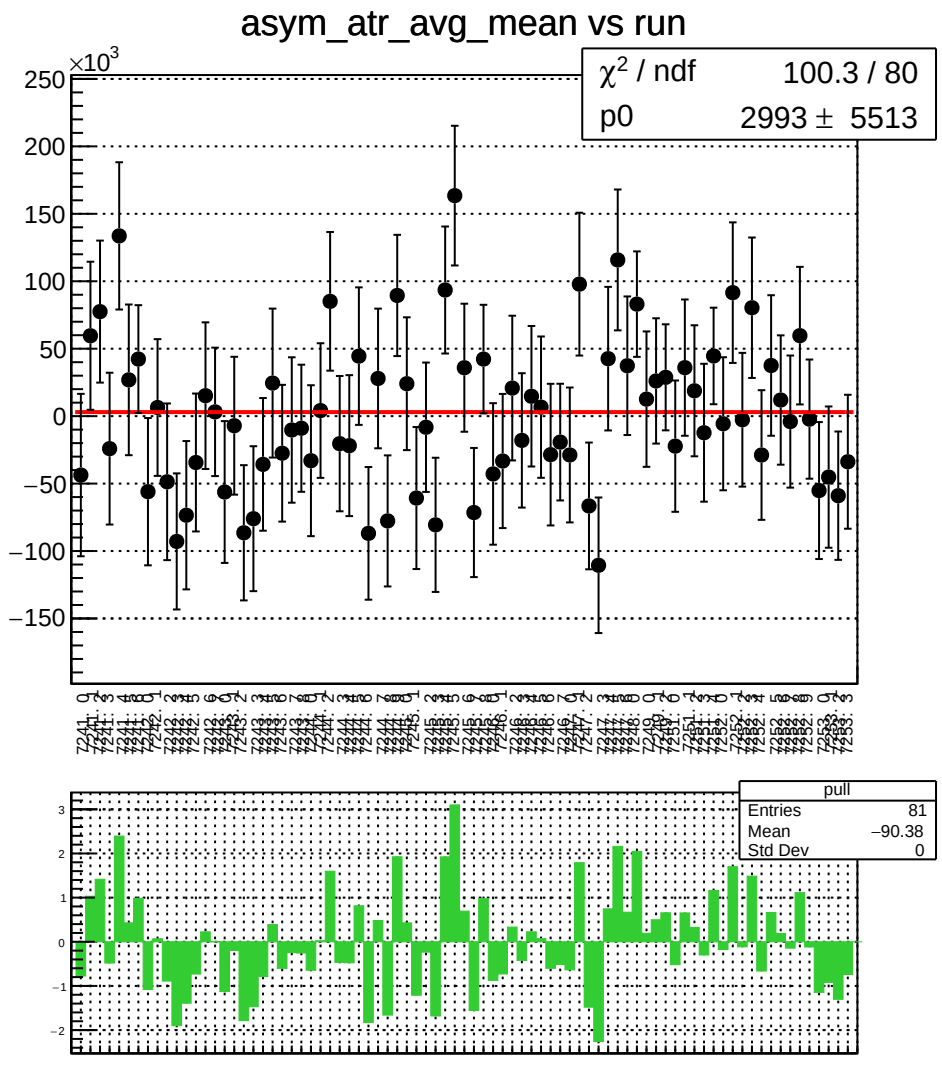

pull1D
Entries 81
Mean 0.001371
Std Dev 1.037

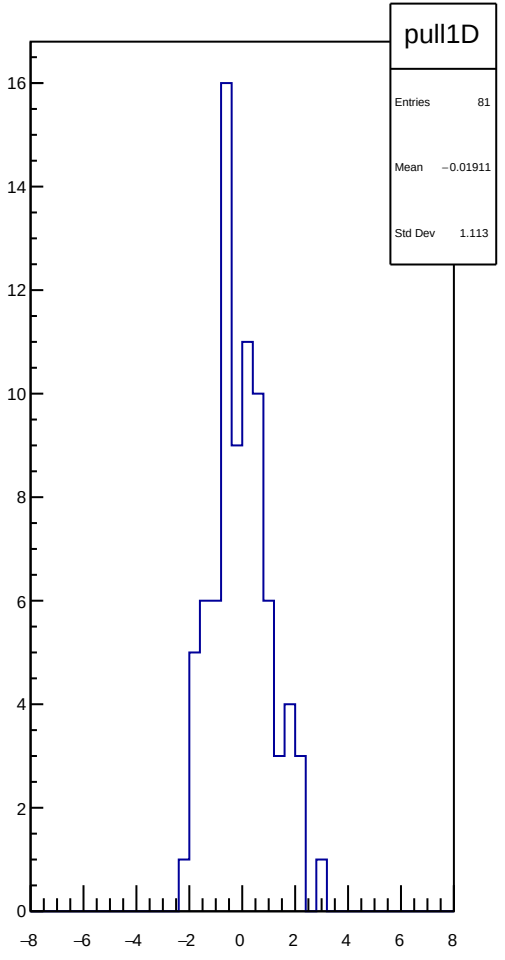

eigen_dit_asym_atr_avg_rms vs run
χ² / ndf 83.58 / 80
p0 1846 ± 1.483
1880
1860
1840
1820
1800

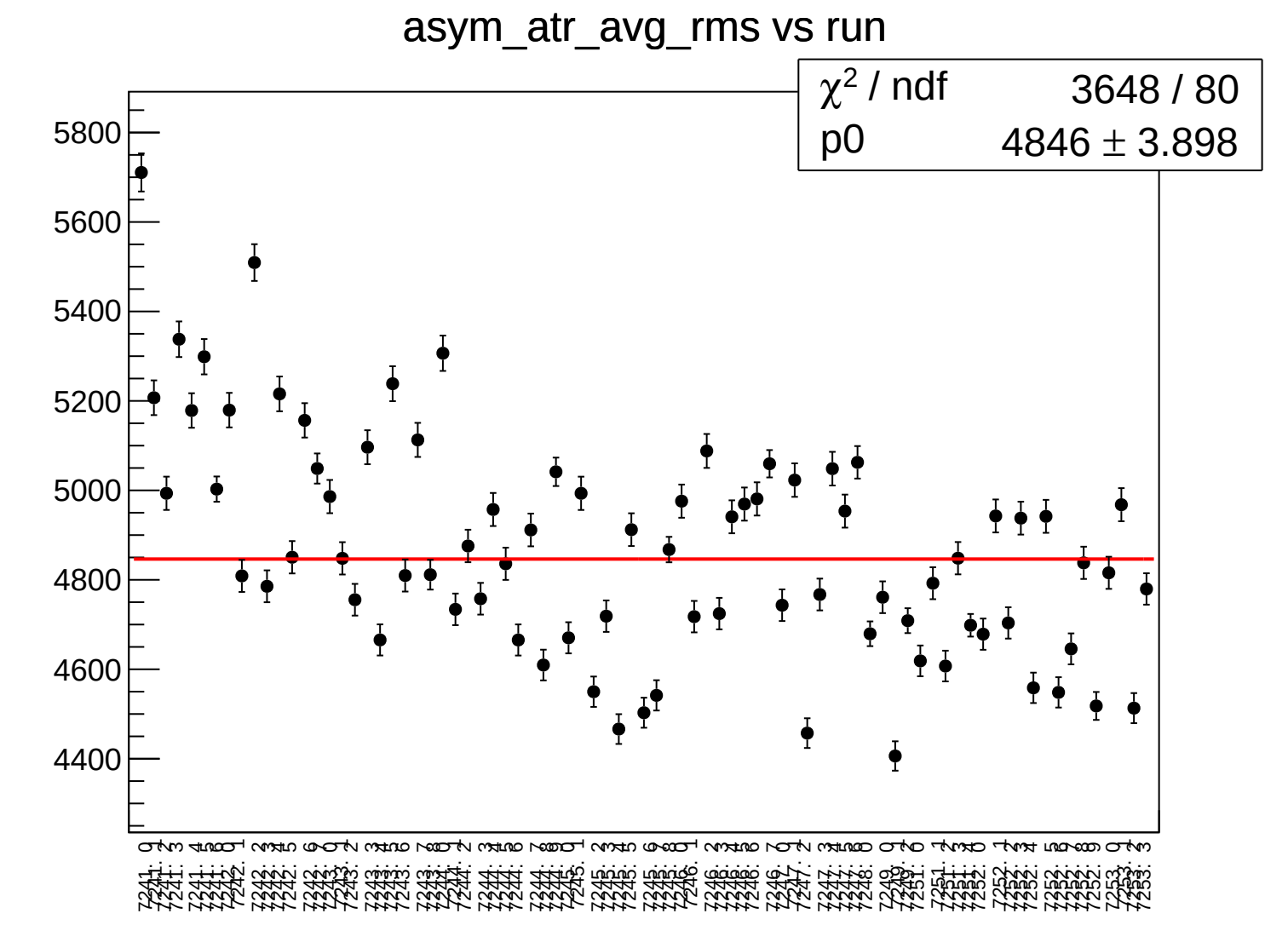

asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.05 / 80
p0 −422.7 ± 5150
150
100
50
0
−50
−100
−150
−200
pull
Entries 81
Mean −101.9
Std Dev 0
2
1
0
−1
−2

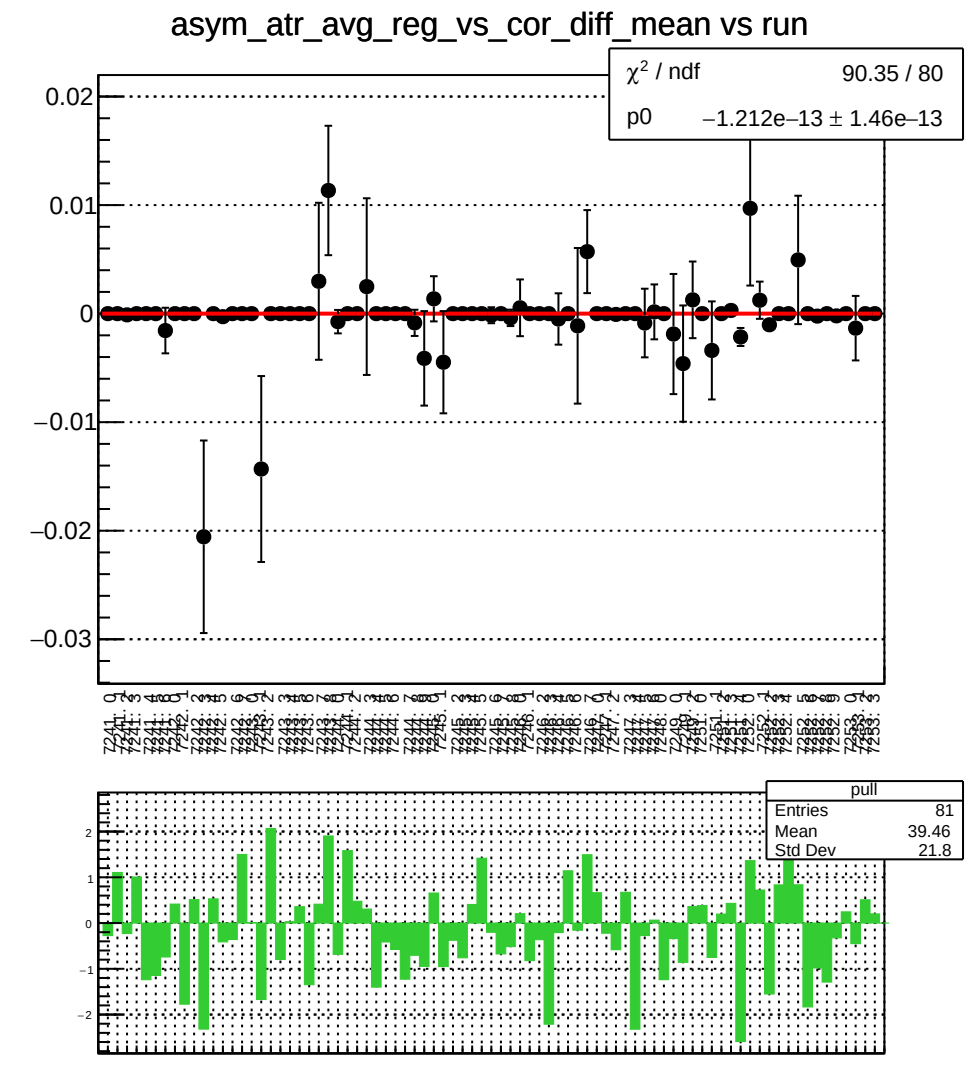

pull1D
Entries 81
Mean 0.02458
Std Dev 1.089
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

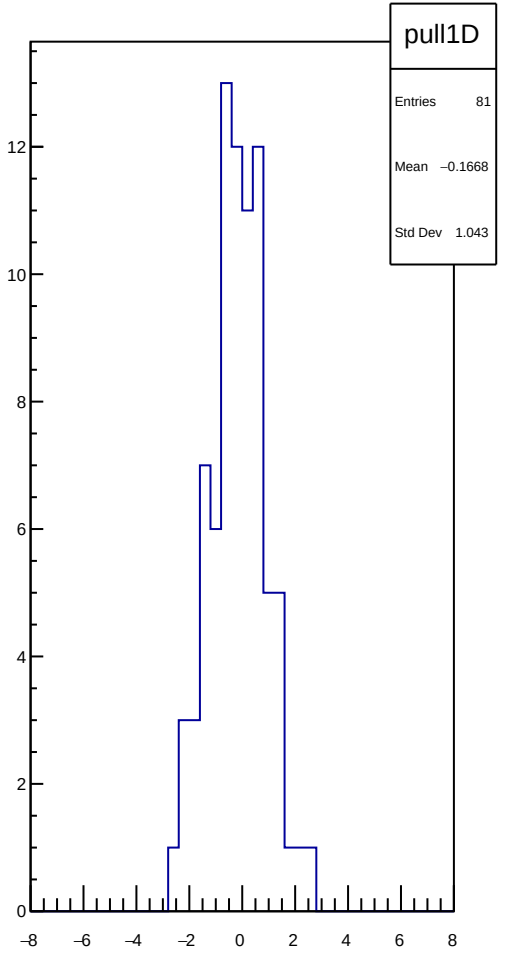

asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 4701 / 80
p0 4526 ± 3.642
5600
5400
5200
5000
4800
4600
4400
4200
4000

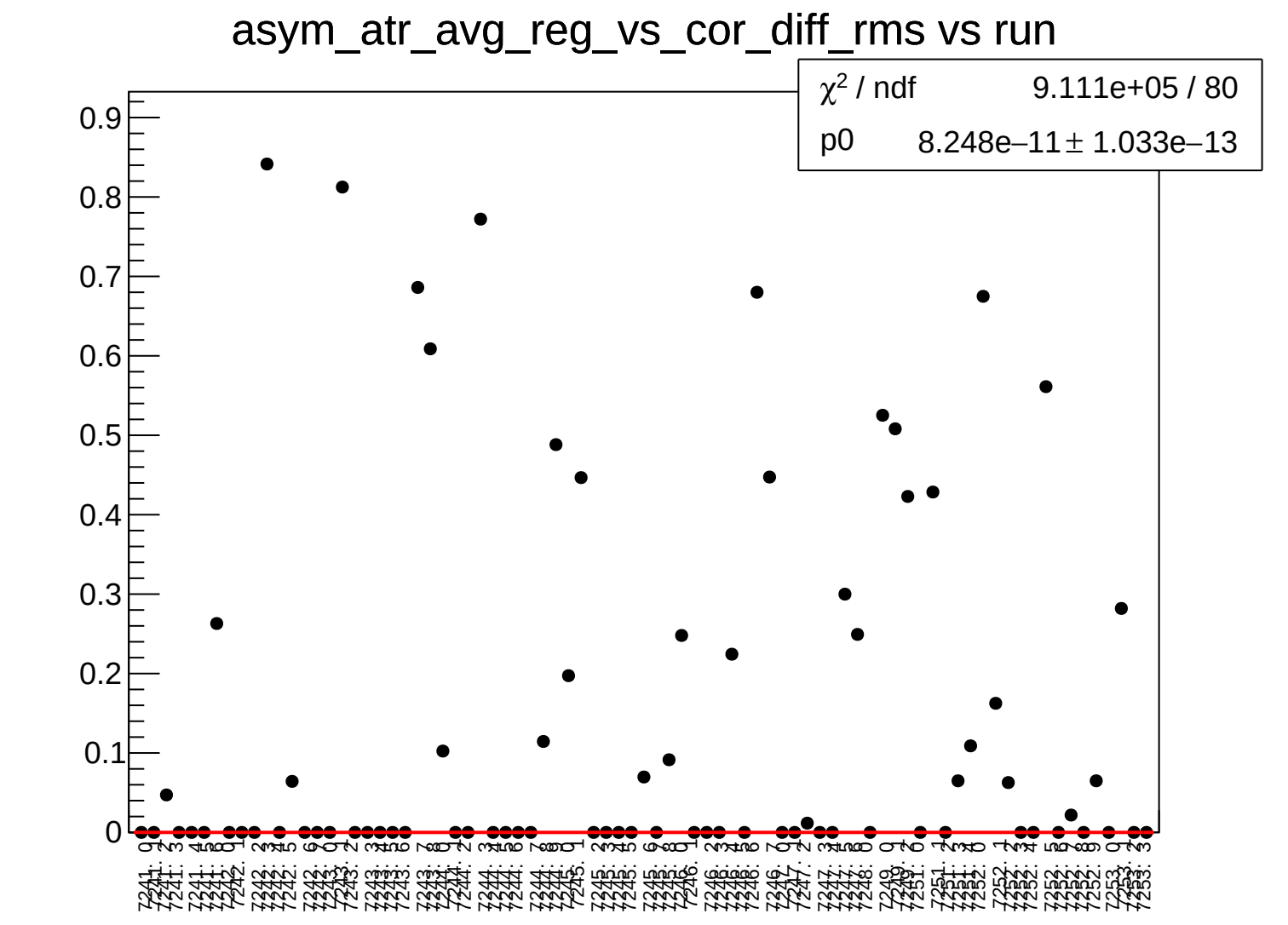

asym_atr_avg_mean vs run
χ^2 / ndf 100.3 / 80
p0 2993 ± 5513
×10^3
pull
Entries 81
Mean −90.38
Std Dev 0

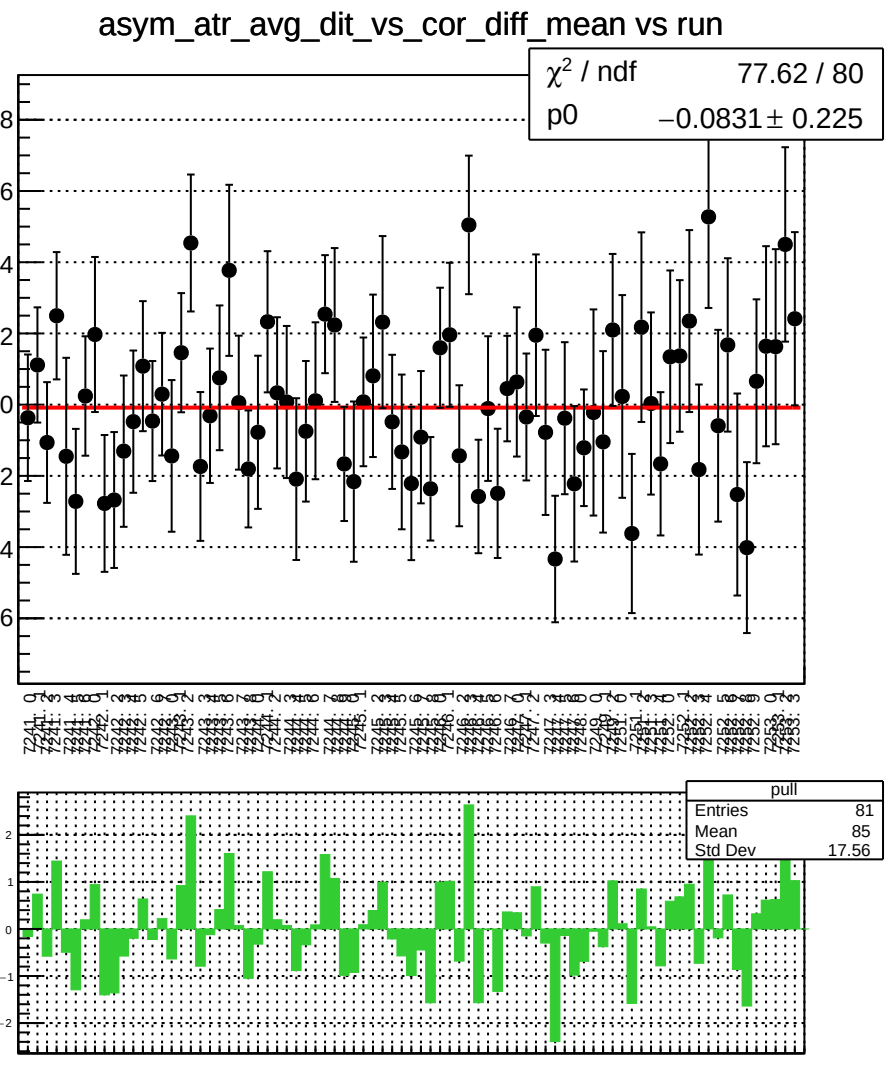

pull1D
Entries 81
Mean −0.01911
Std Dev 1.113

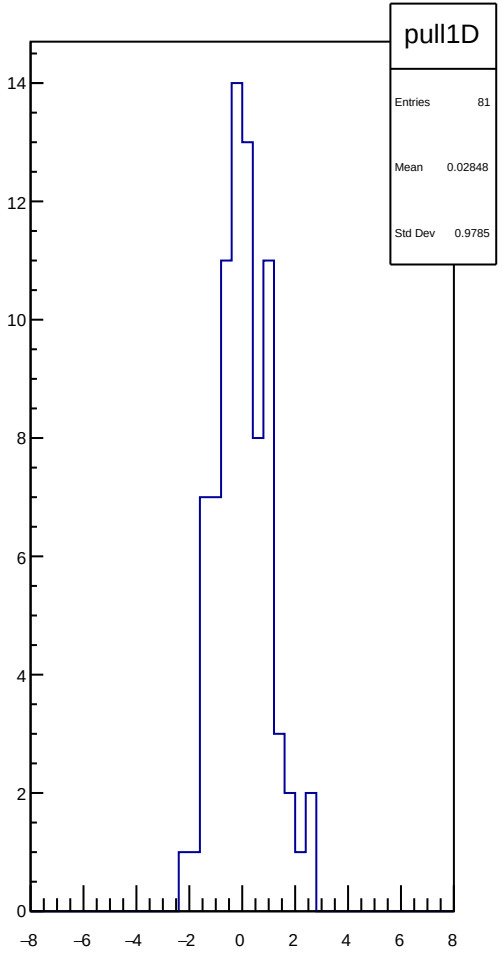

asym_atr_avg_rms vs run
χ² / ndf 3648 / 80
p0 4846 ± 3.898
5800
5600
5400
5200
5000
4800
4600
4400

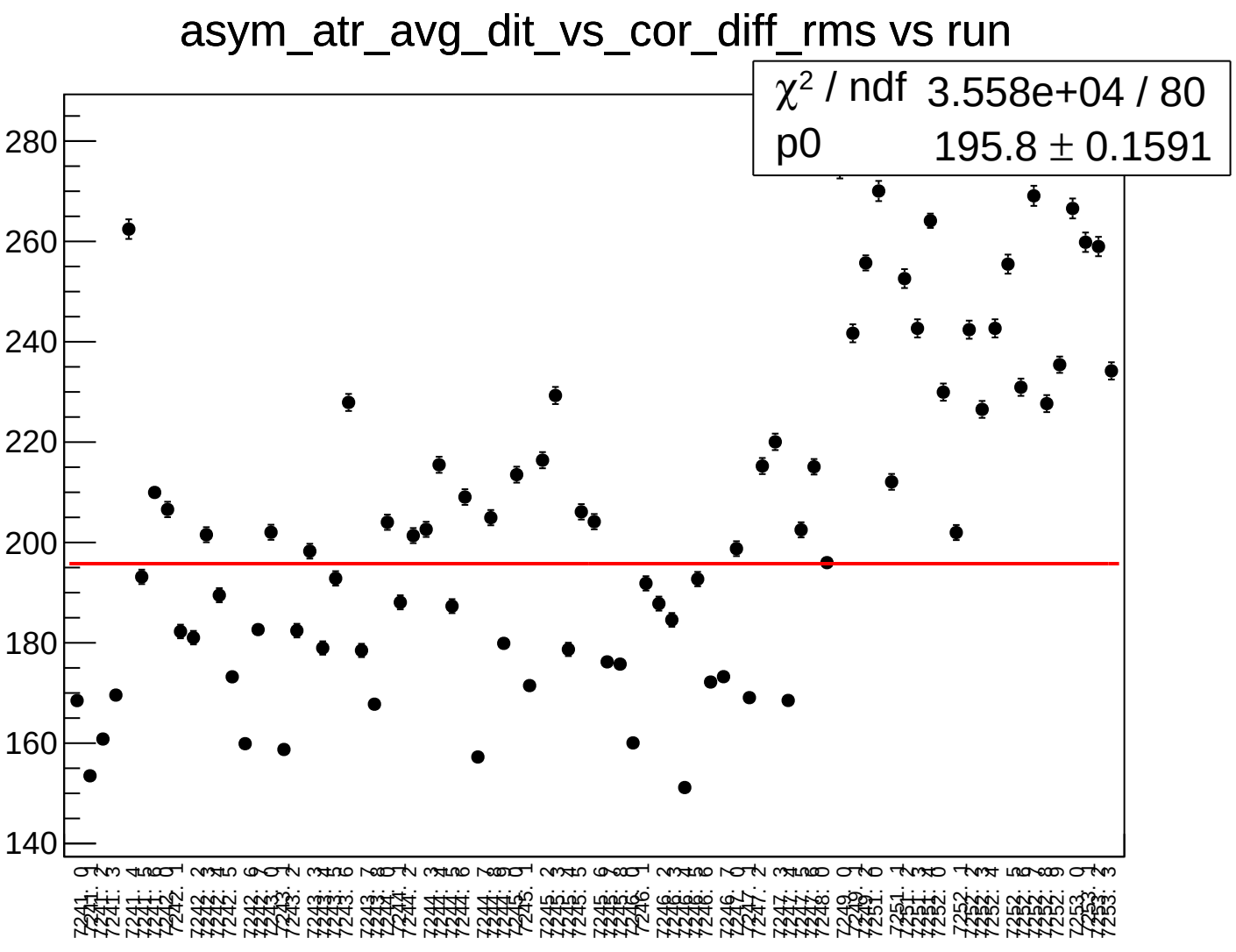

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 90.35 / 80
p0 −1.212e−13 ± 1.46e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 81
Mean 39.46
Std Dev 21.8
2
1
0
−1
−2

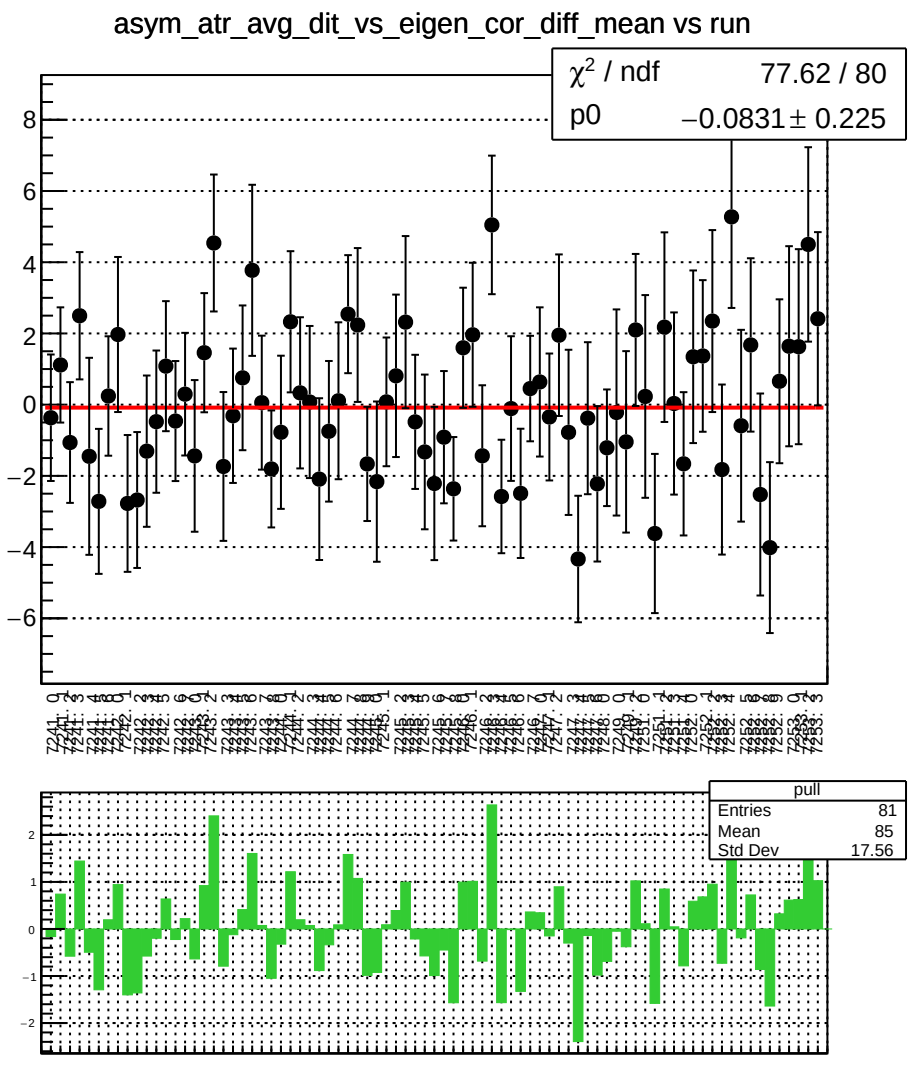

pull1D
Entries 81
Mean −0.1668
Std Dev 1.043
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

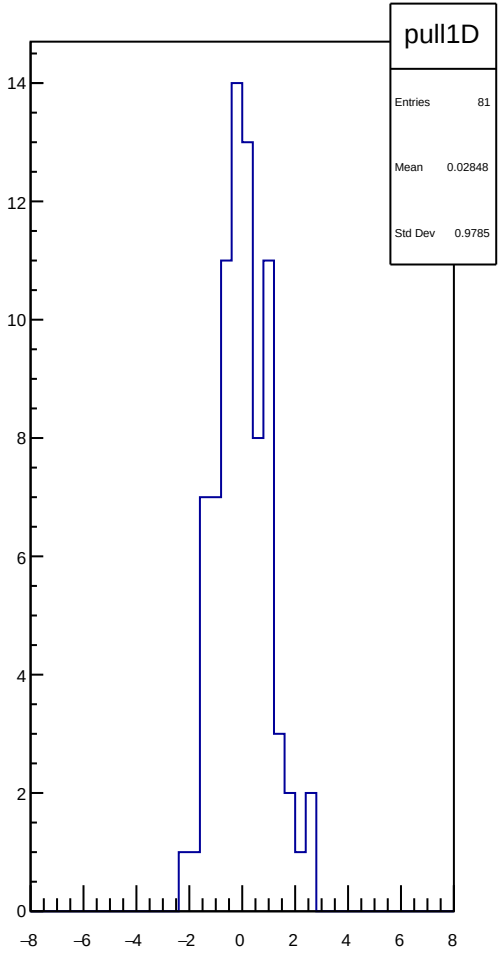

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.111e+05 / 80
p0 8.248e−11 ± 1.033e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

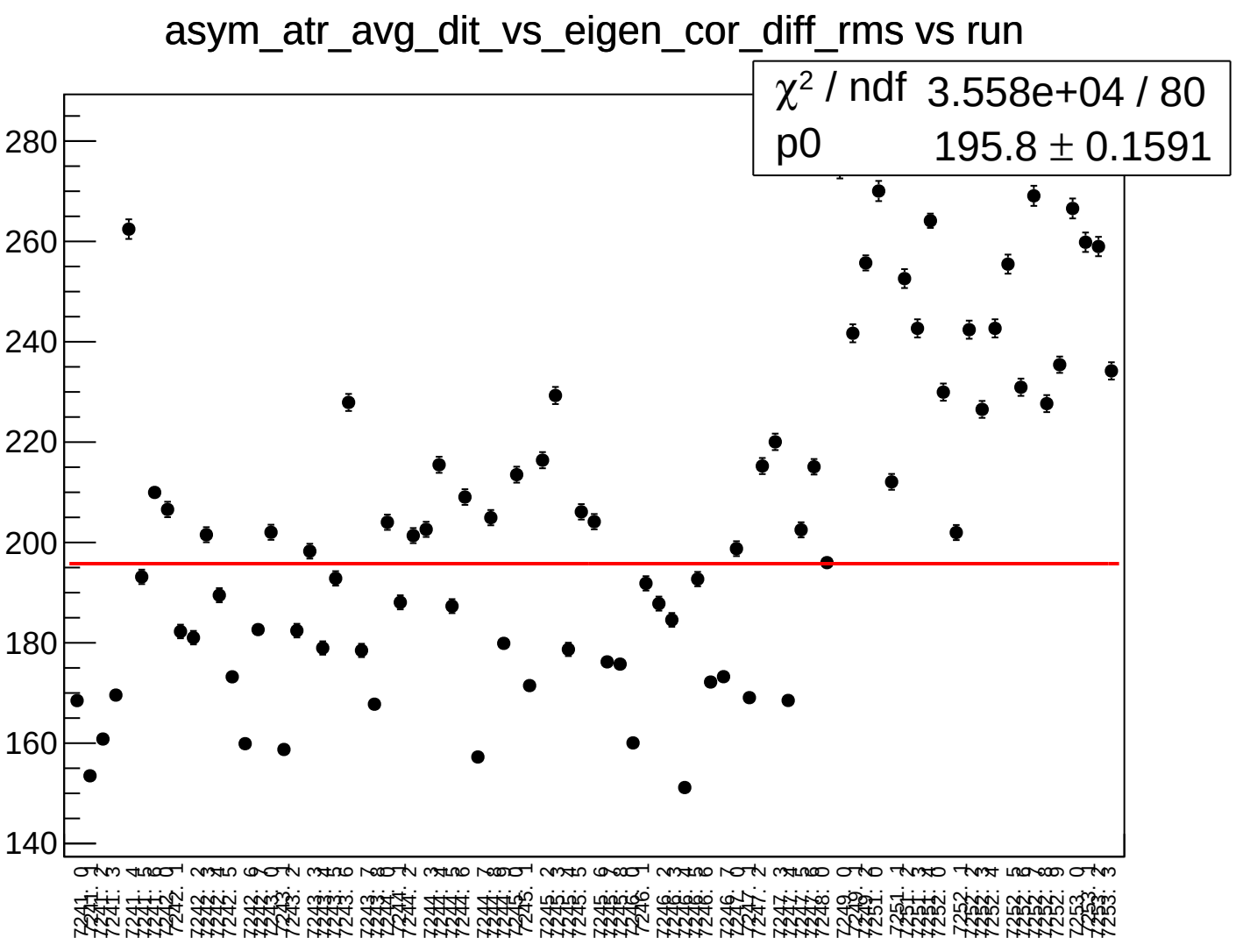

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 77.62 / 80
p0 −0.0831 ± 0.225
pull
Entries 81
Mean 85
Std Dev 17.56

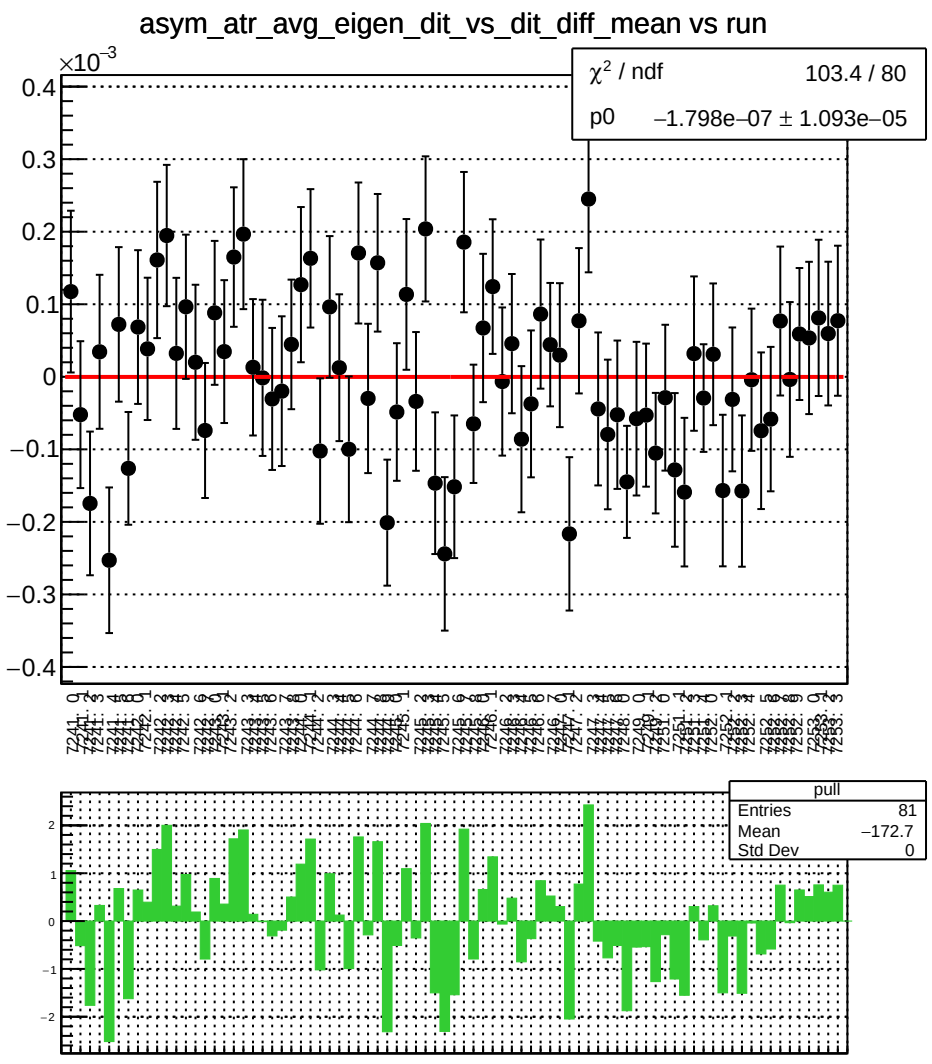

pull1D
Entries 81
Mean 0.02848
Std Dev 0.9785

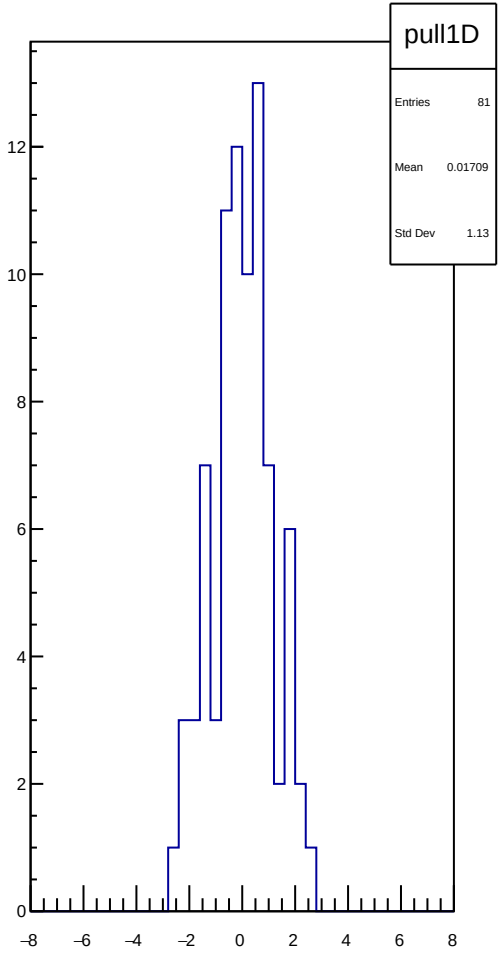

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.558e+04 / 80
p0 195.8 ± 0.1591
280
260
240
220
200
180
160
140

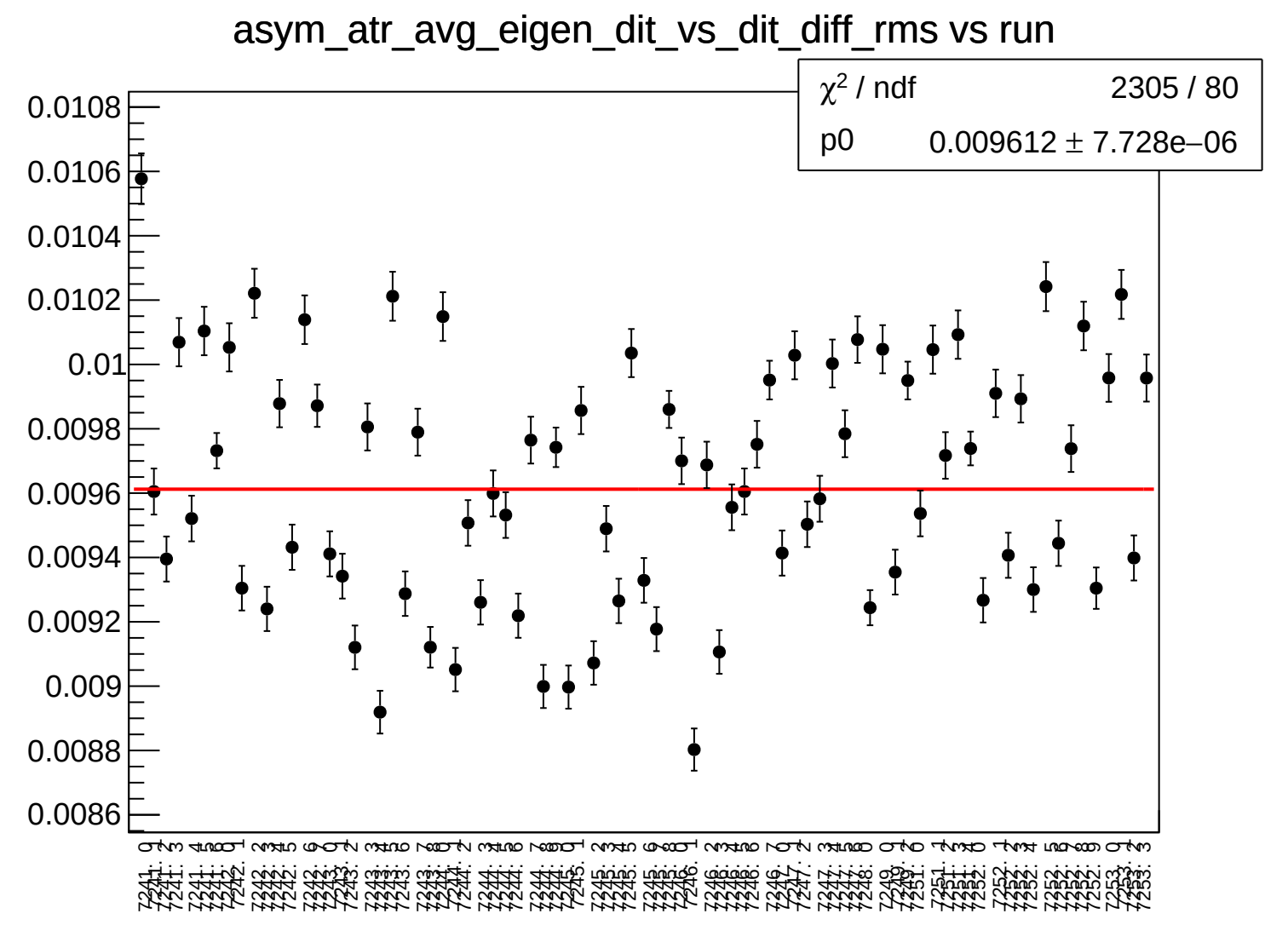

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.62 / 80
p0 −0.0831 ± 0.225
pull
Entries 81
Mean 85
Std Dev 17.56

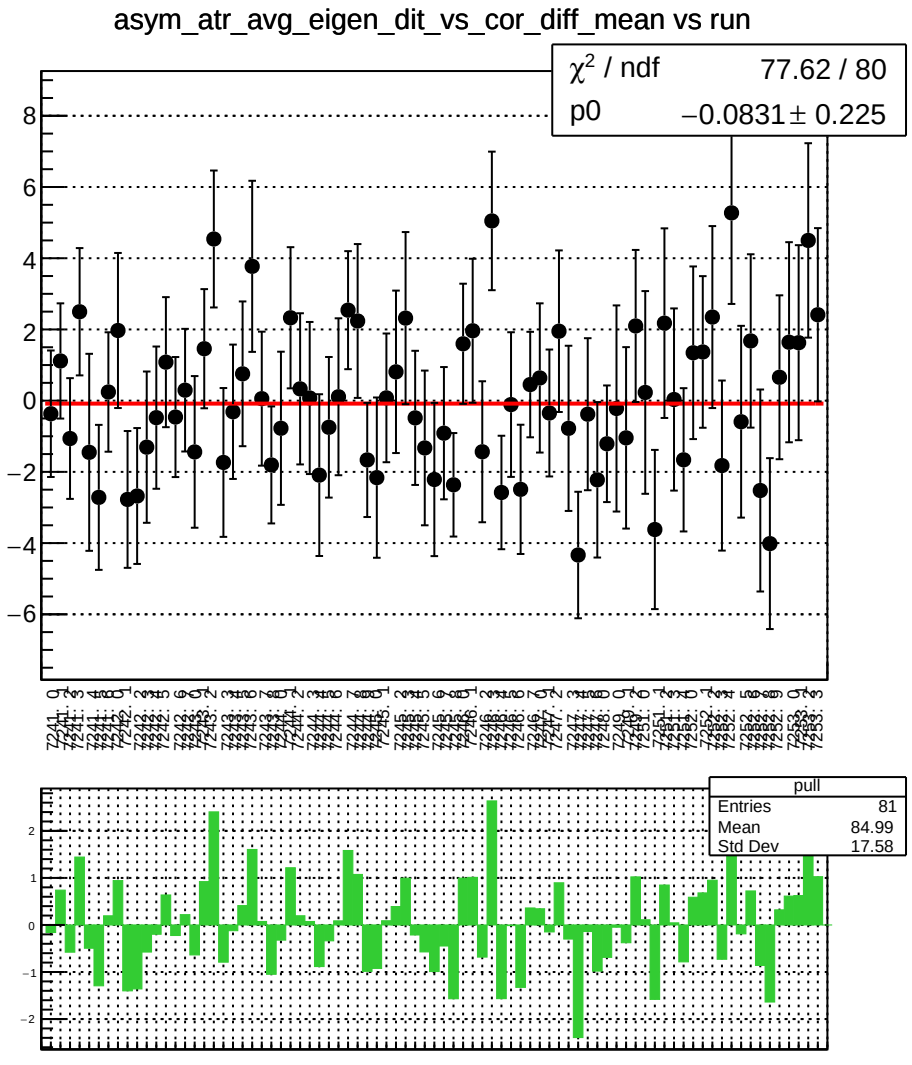

pull1D
Entries 81
Mean 0.02848
Std Dev 0.9785

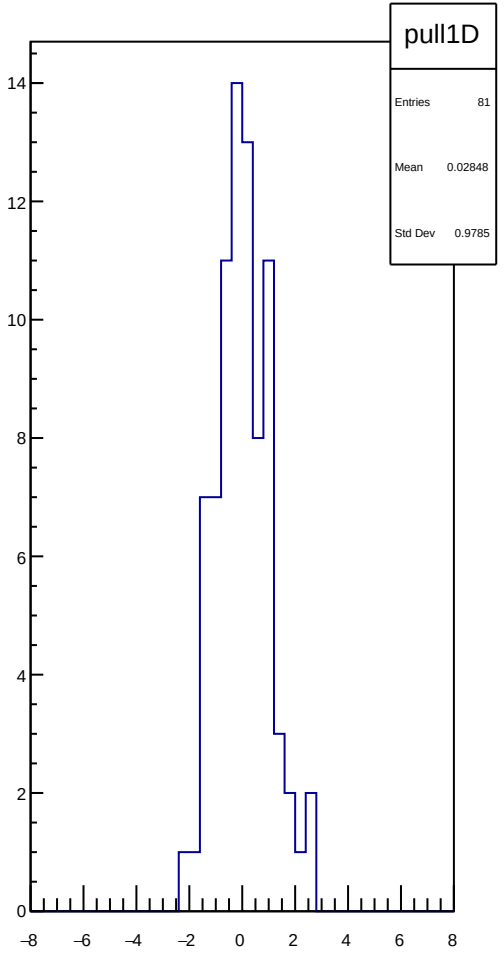

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.558e+04 / 80
p0 195.8 ± 0.1591
280
260
240
220
200
180
160
140

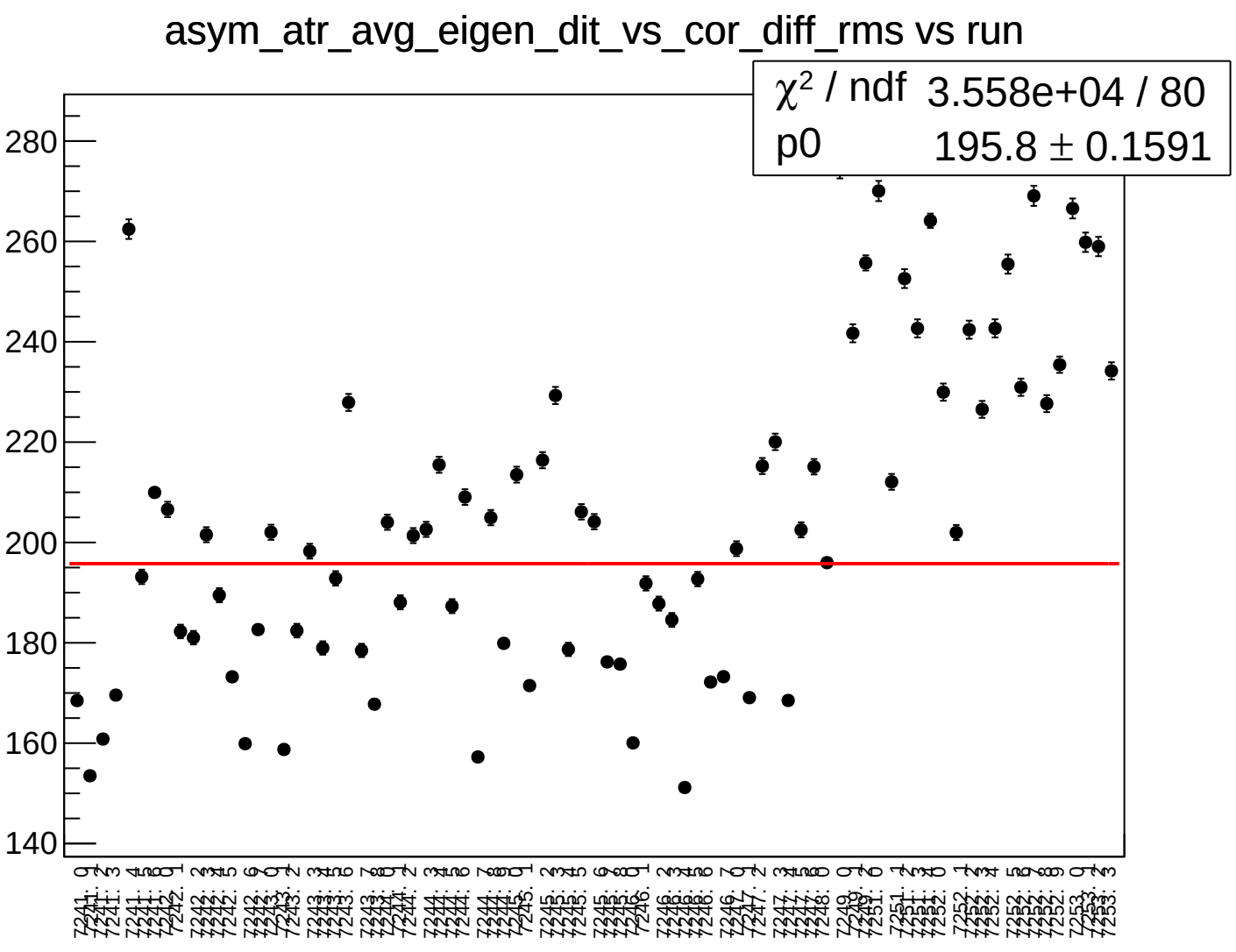

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103.4 / 80
p0 −1.798e−07 ± 1.093e−05
pull
Entries 81
Mean −172.7
Std Dev 0

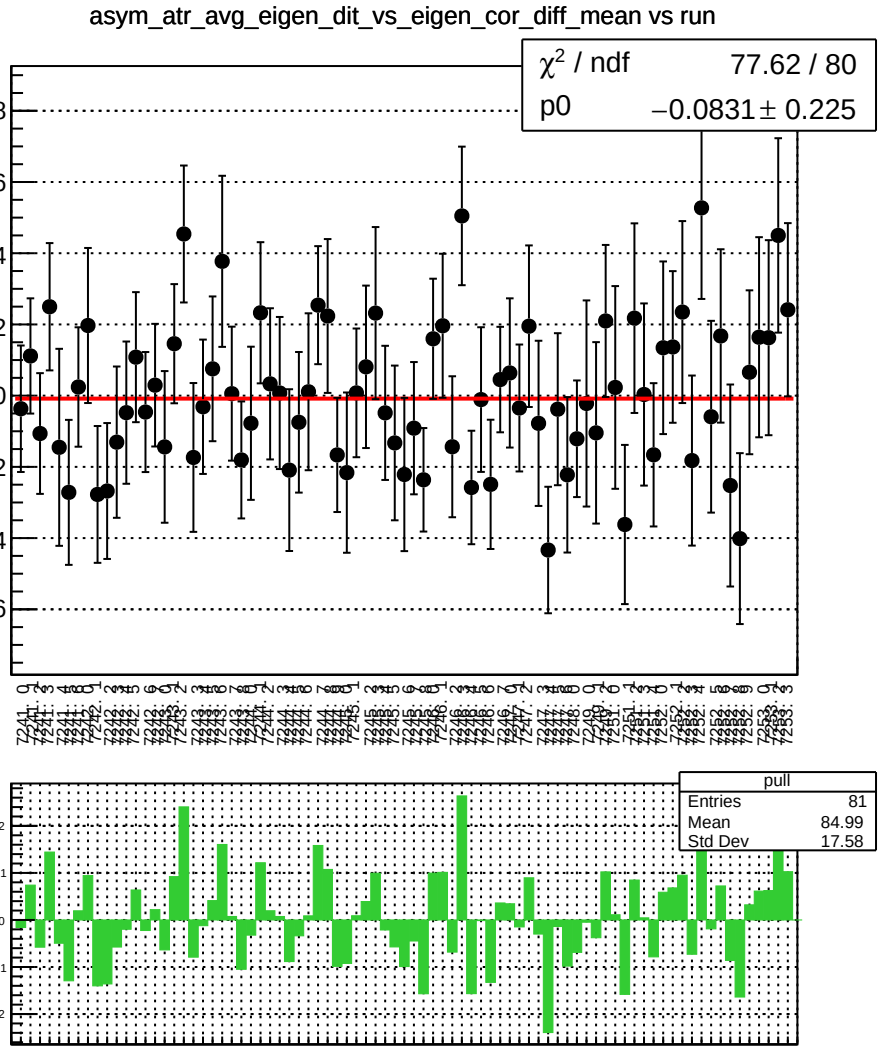

pull1D
Entries 81
Mean 0.01709
Std Dev 1.13

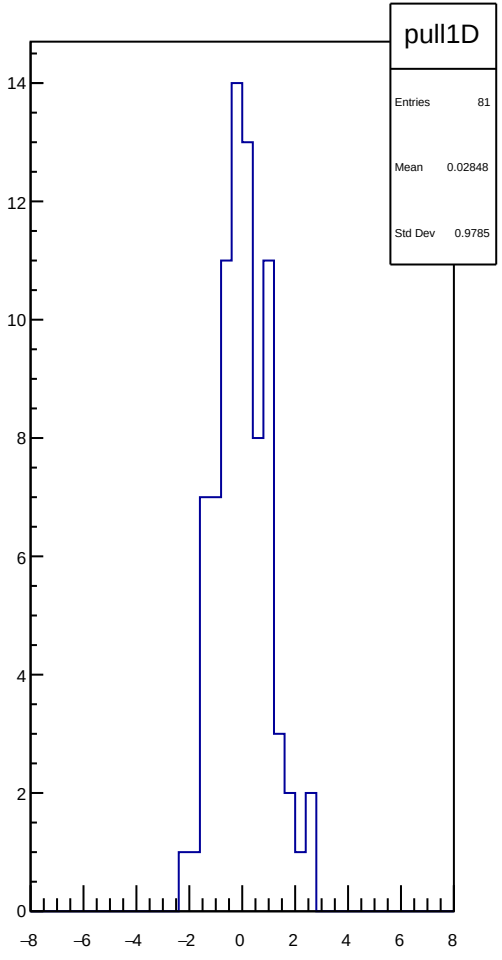

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2305 / 80
p0 0.009612 ± 7.728e−06
0.0108
0.0106
0.0104
0.0102
0.01
0.0098
0.0096
0.0094
0.0092
0.009
0.0088
0.0086

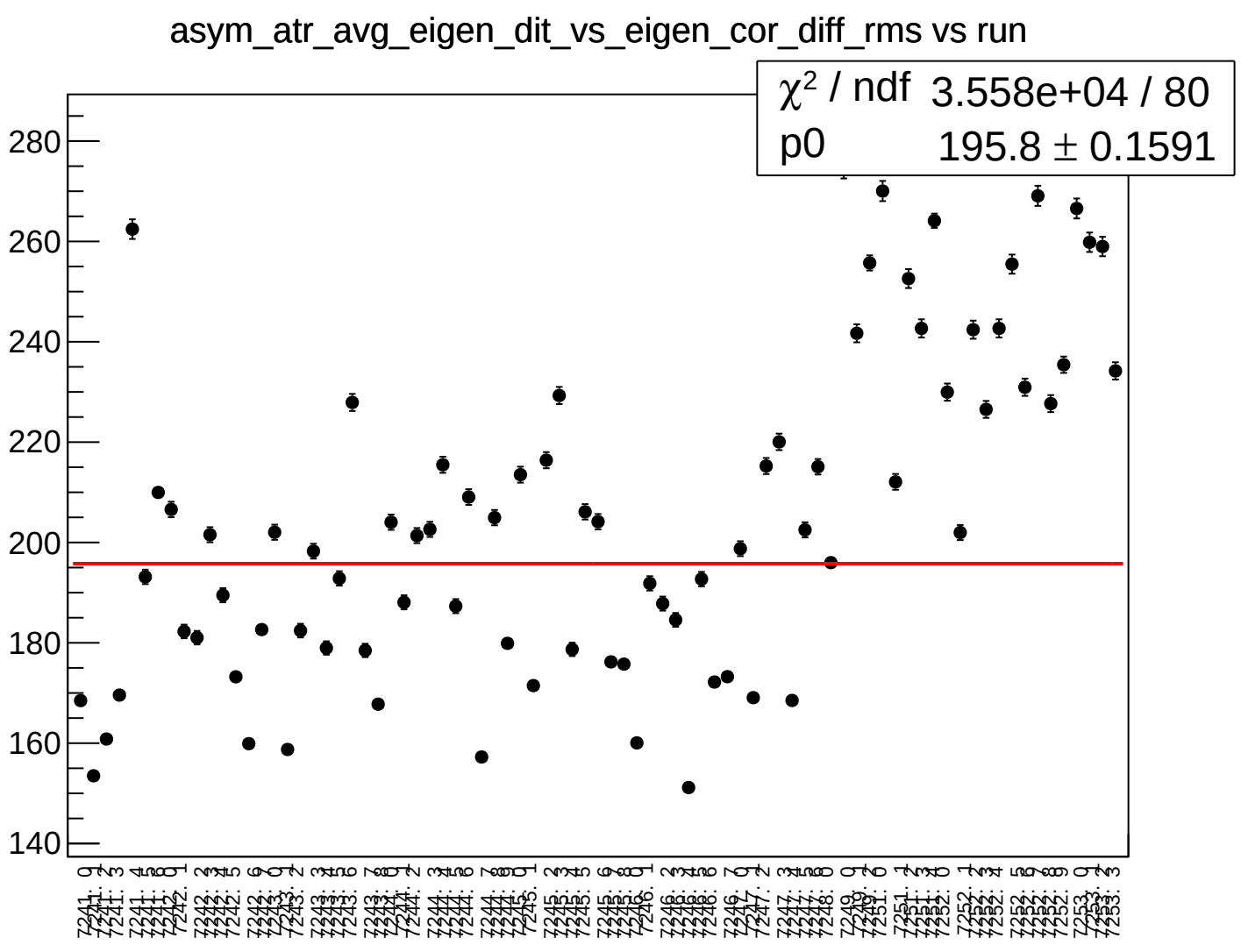

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.62 / 80
p0 −0.0831 ± 0.225
pull
Entries 81
Mean 84.99
Std Dev 17.58

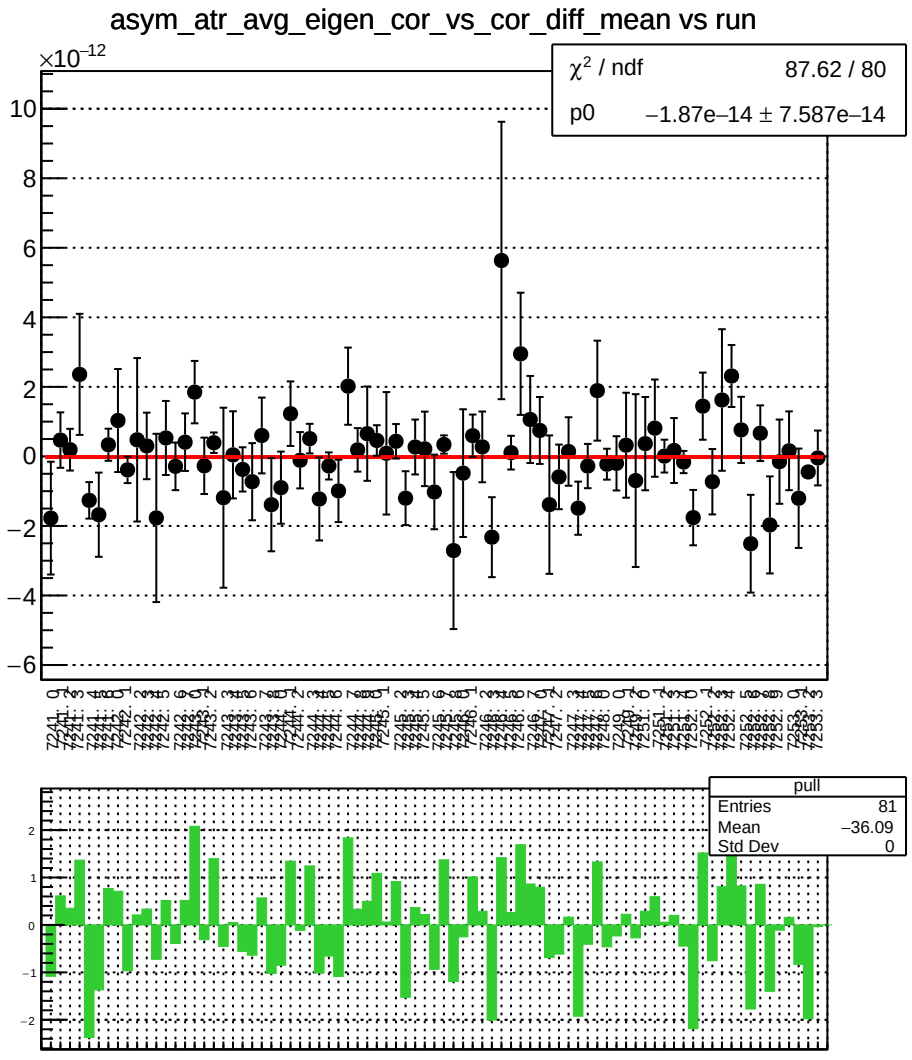

pull1D
Entries 81
Mean 0.02848
Std Dev 0.9785

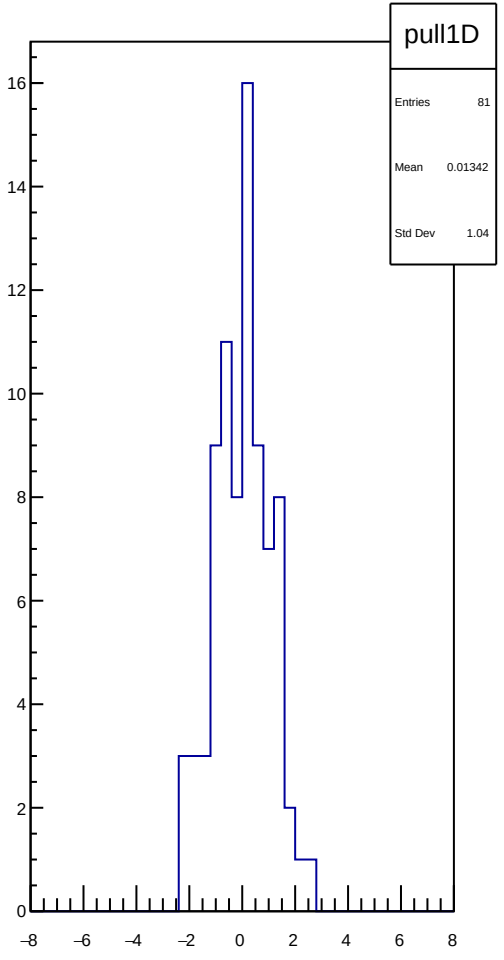

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.558e+04 / 80
p0 195.8 ± 0.1591
280
260
240
220
200
180
160
140

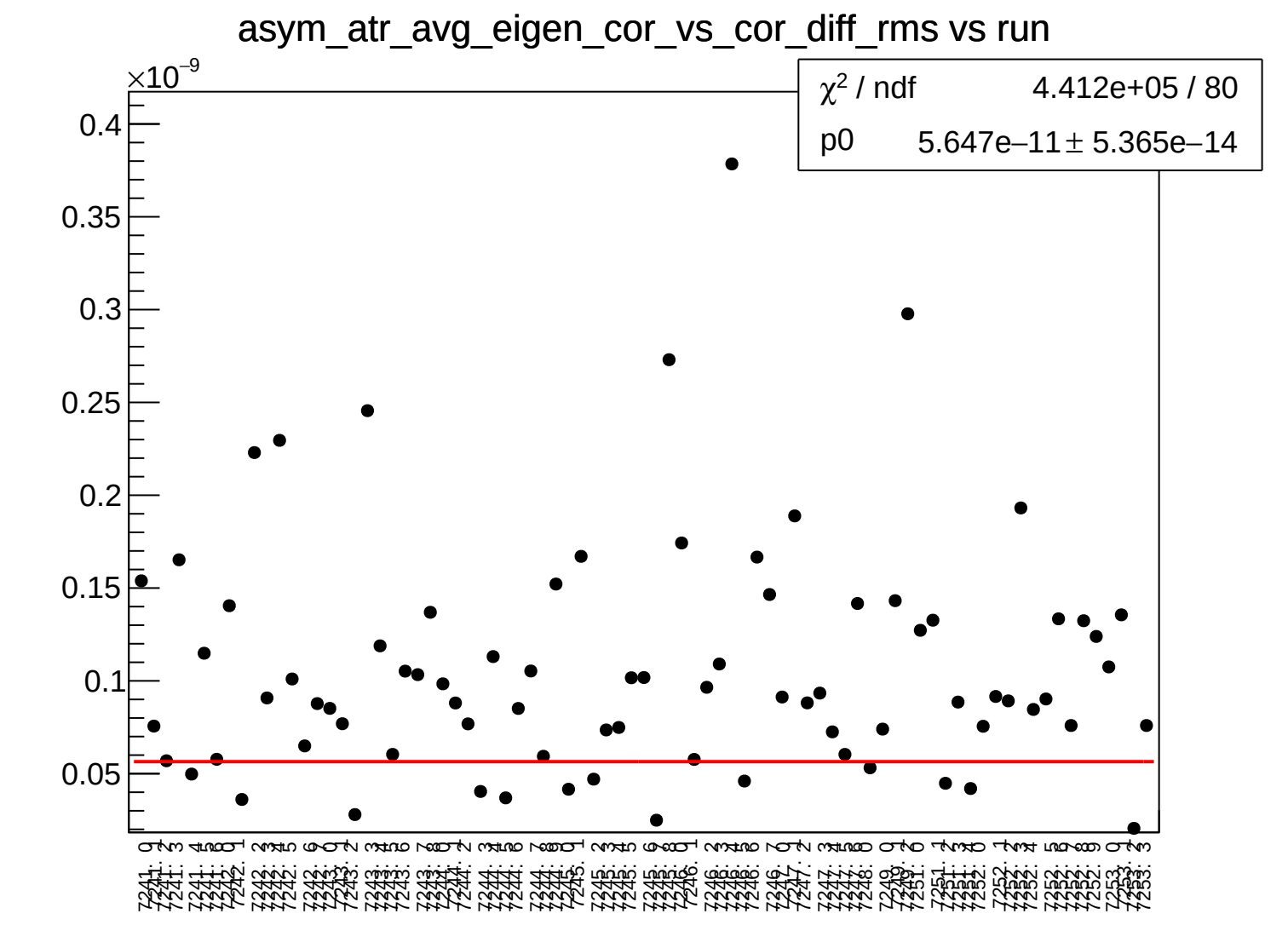

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.62 / 80
p0 −0.0831 ± 0.225
pull
Entries 81
Mean 84.99
Std Dev 17.58

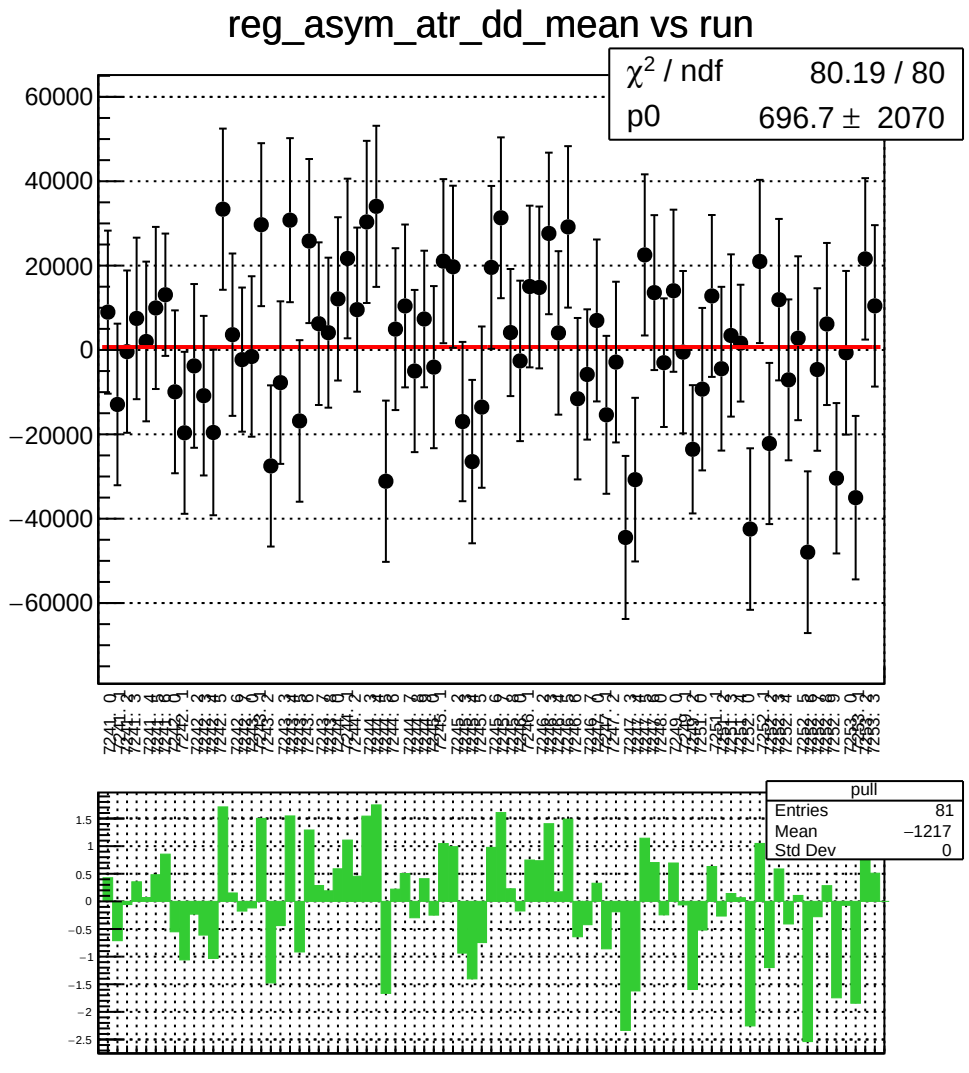

pull1D
Entries 81
Mean 0.02848
Std Dev 0.9785

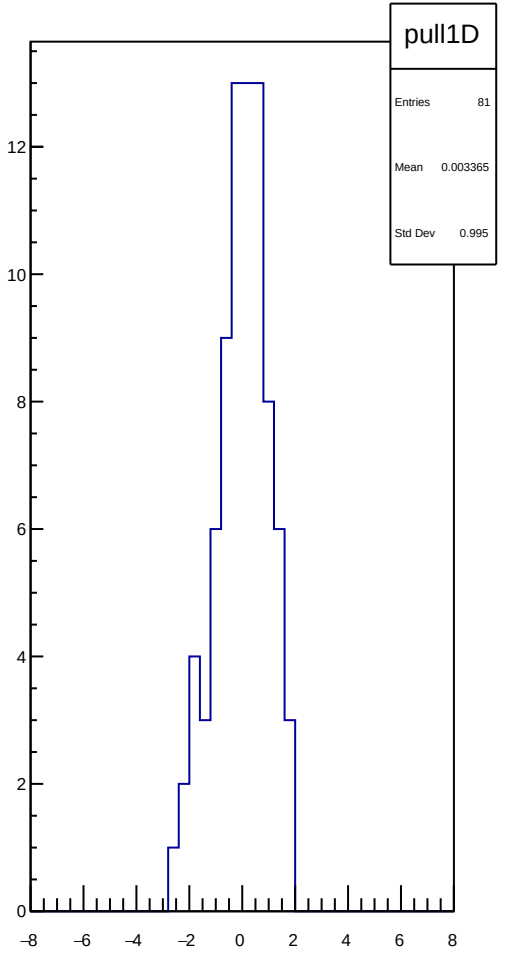

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.558e+04 / 80
p0 195.8 ± 0.1591
280
260
240
220
200
180
160
140

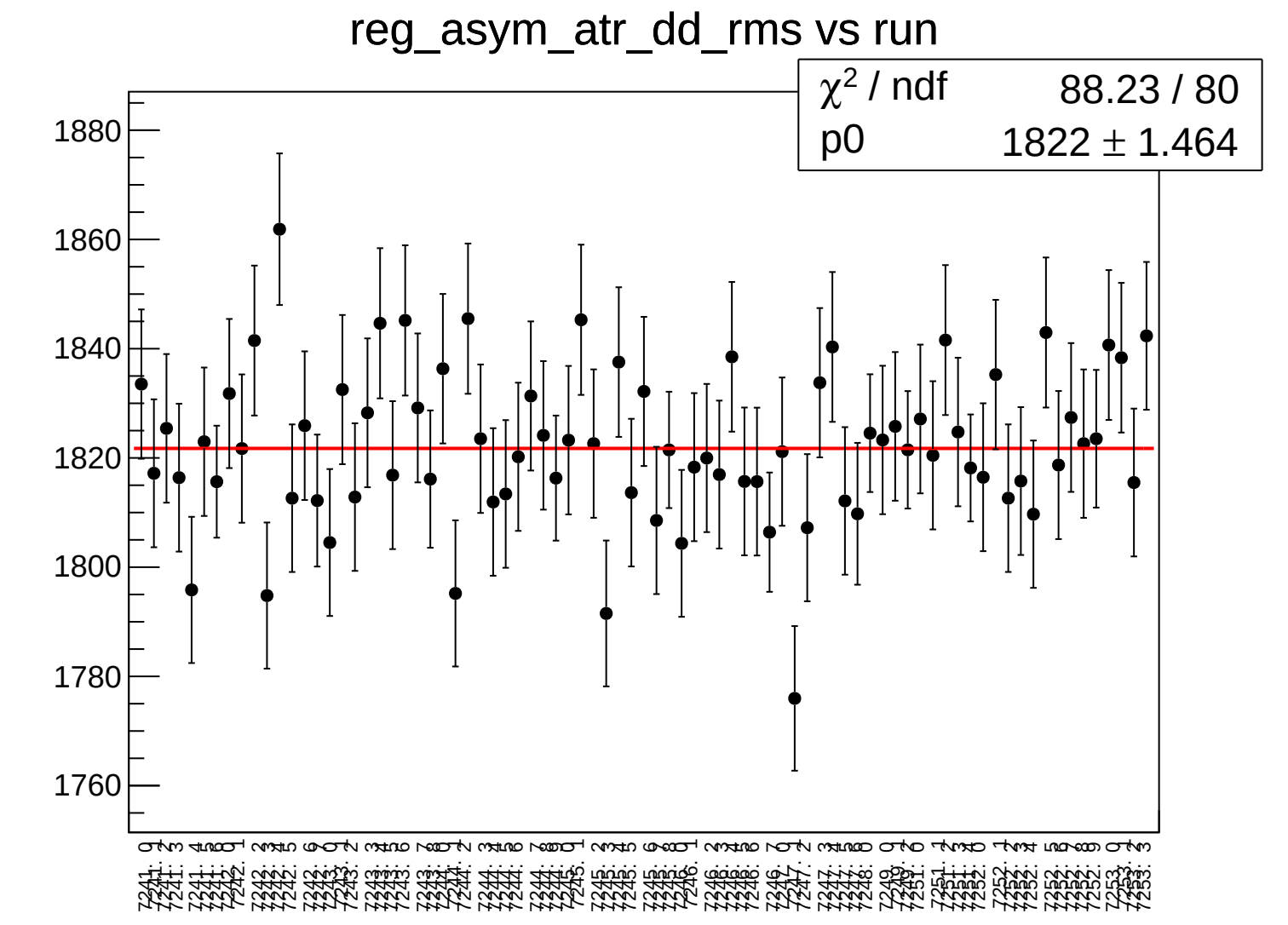

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.62 / 80
p0 −1.87e−14 ± 7.587e−14
pull
Entries 81
Mean −36.09
Std Dev 0

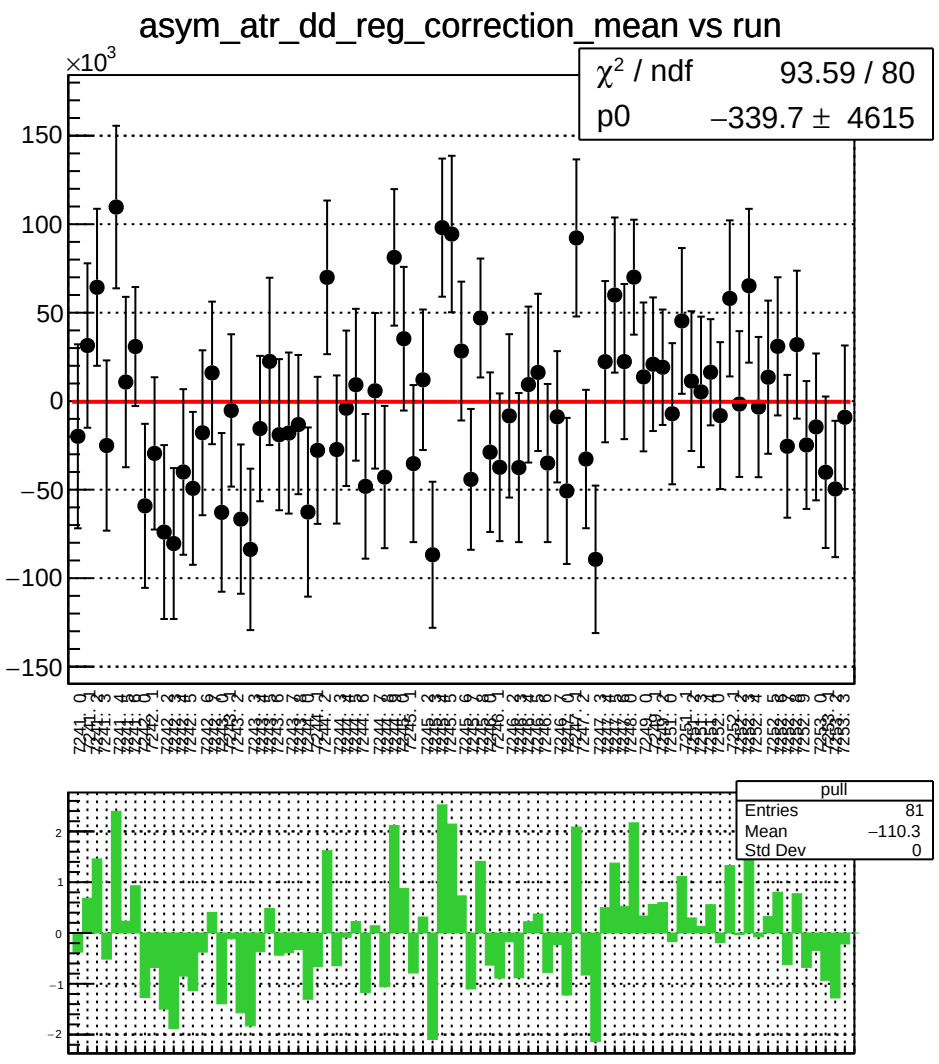

pull1D
Entries 81
Mean 0.01342
Std Dev 1.04

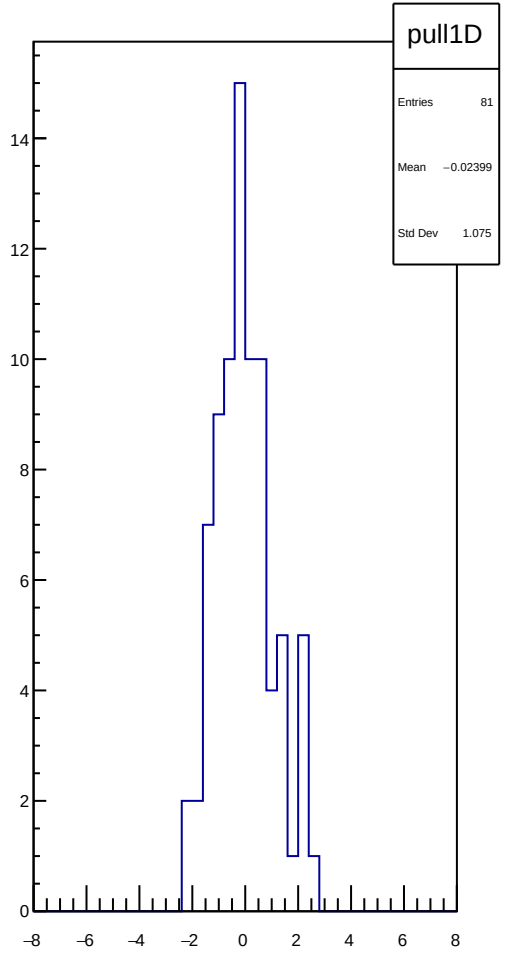

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.412e+05 / 80
p0 5.647e−11 ± 5.365e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

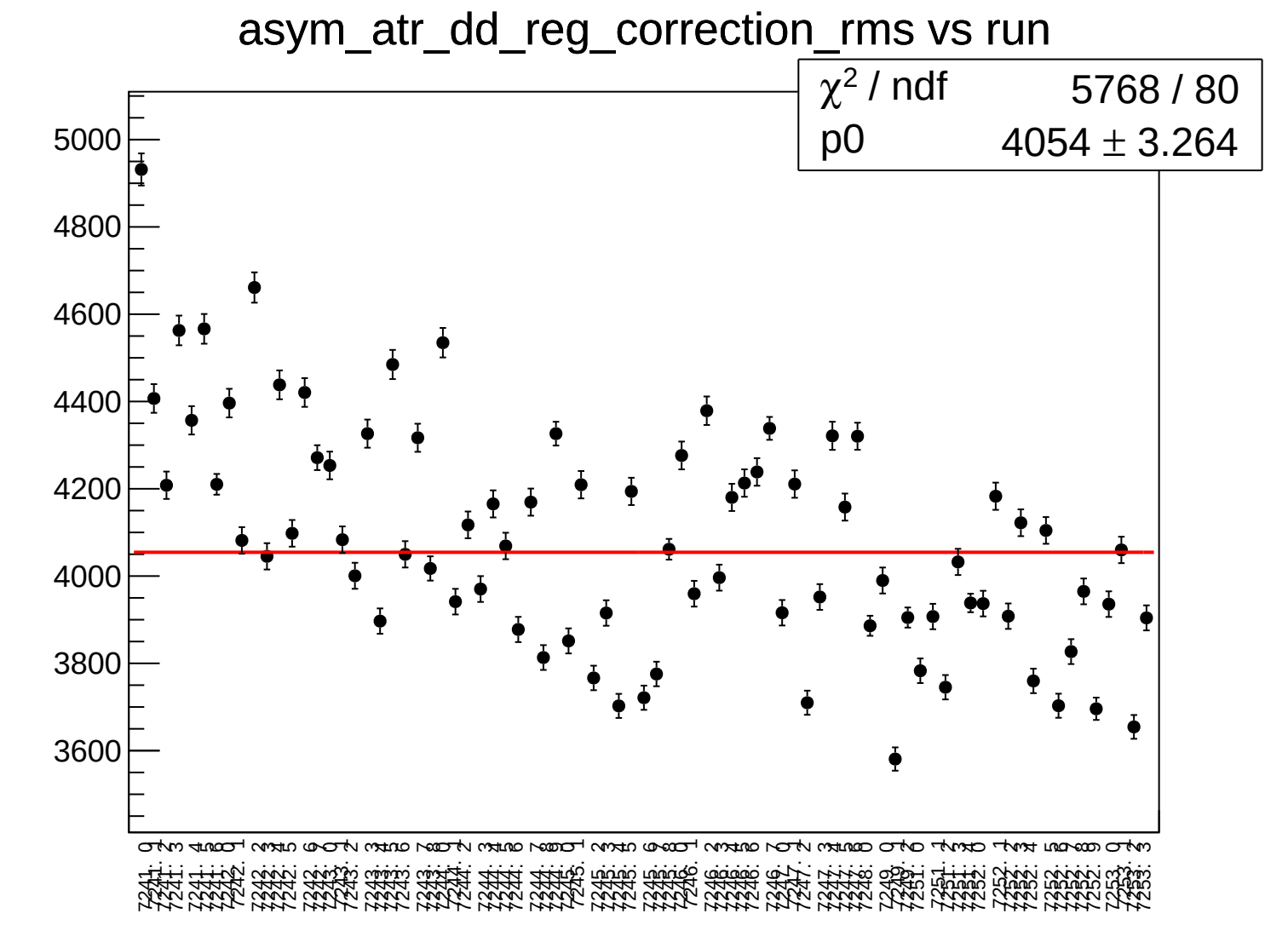

reg_asym_atr_dd_mean vs run
χ² / ndf 80.19 / 80
p0 696.7 ± 2070
pull
Entries 81
Mean −1217
Std Dev 0

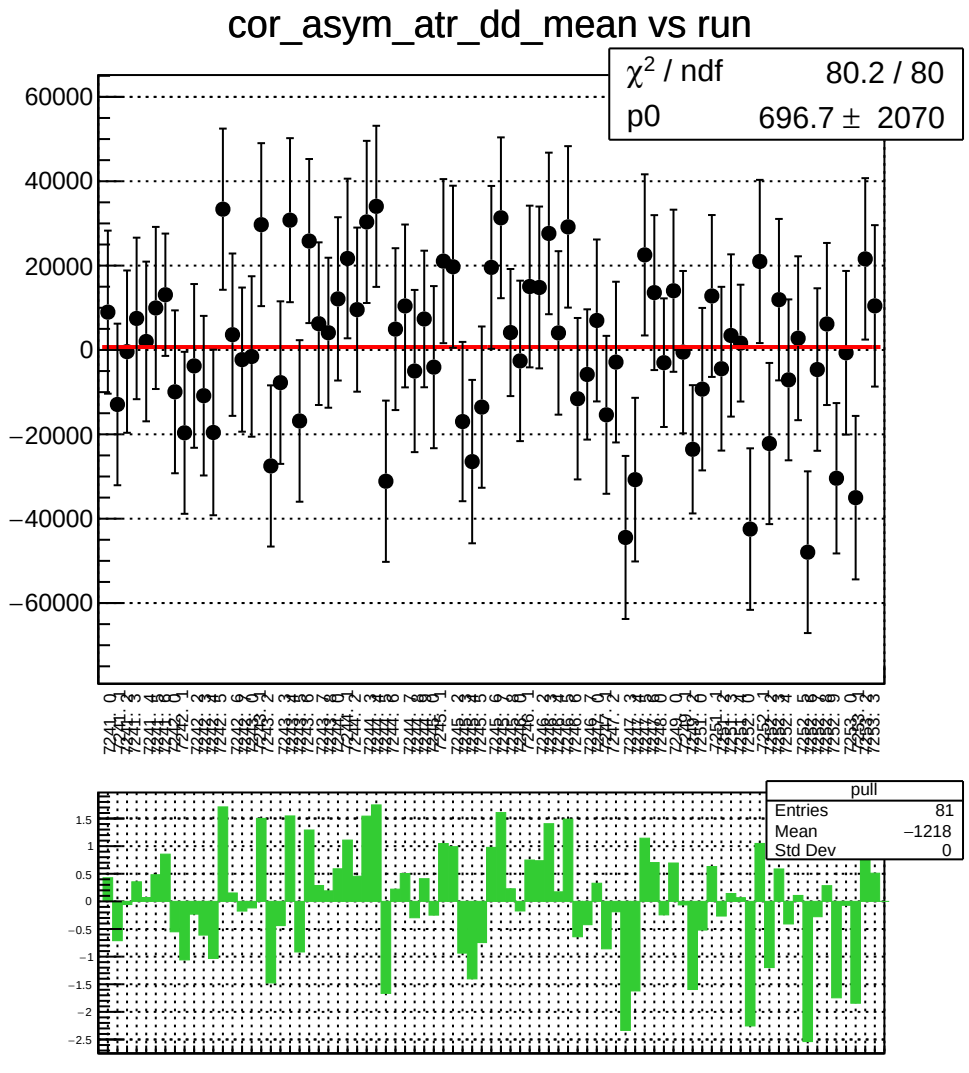

pull1D
Entries 81
Mean 0.003365
Std Dev 0.995

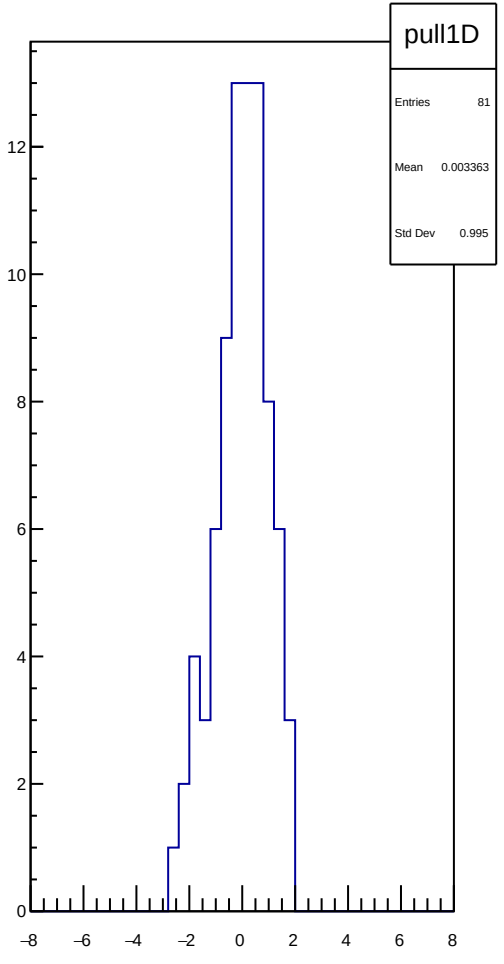

reg_asym_atr_dd_rms vs run
χ² / ndf 88.23 / 80
p0 1822 ± 1.464
1880
1860
1840
1820
1800
1780
1760

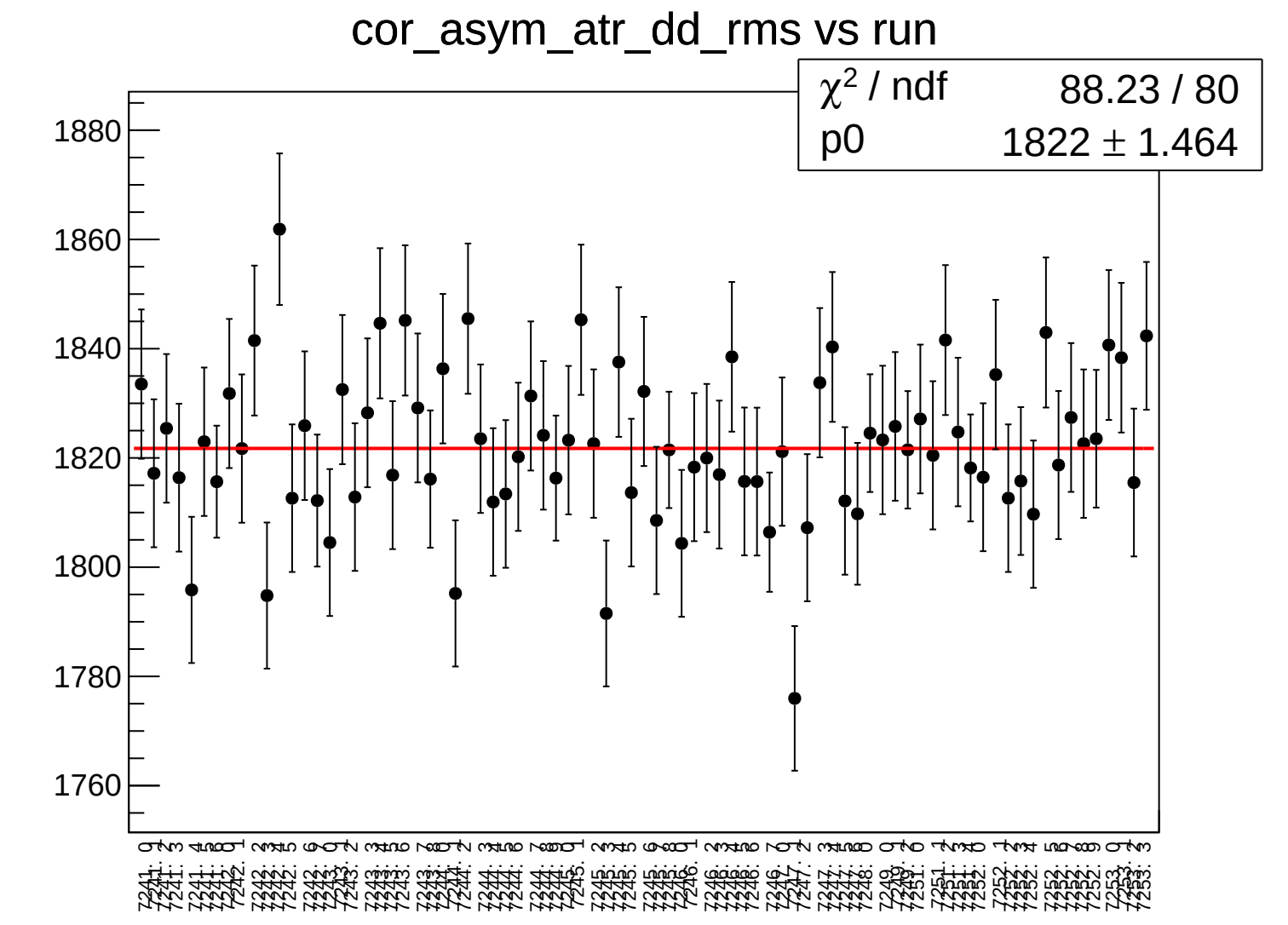

asym_atr_dd_reg_correction_mean vs run
×10^3
χ² / ndf 93.59 / 80
p0 −339.7 ± 4615
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean −110.3
Std Dev 0
2
1
0
−1
−2

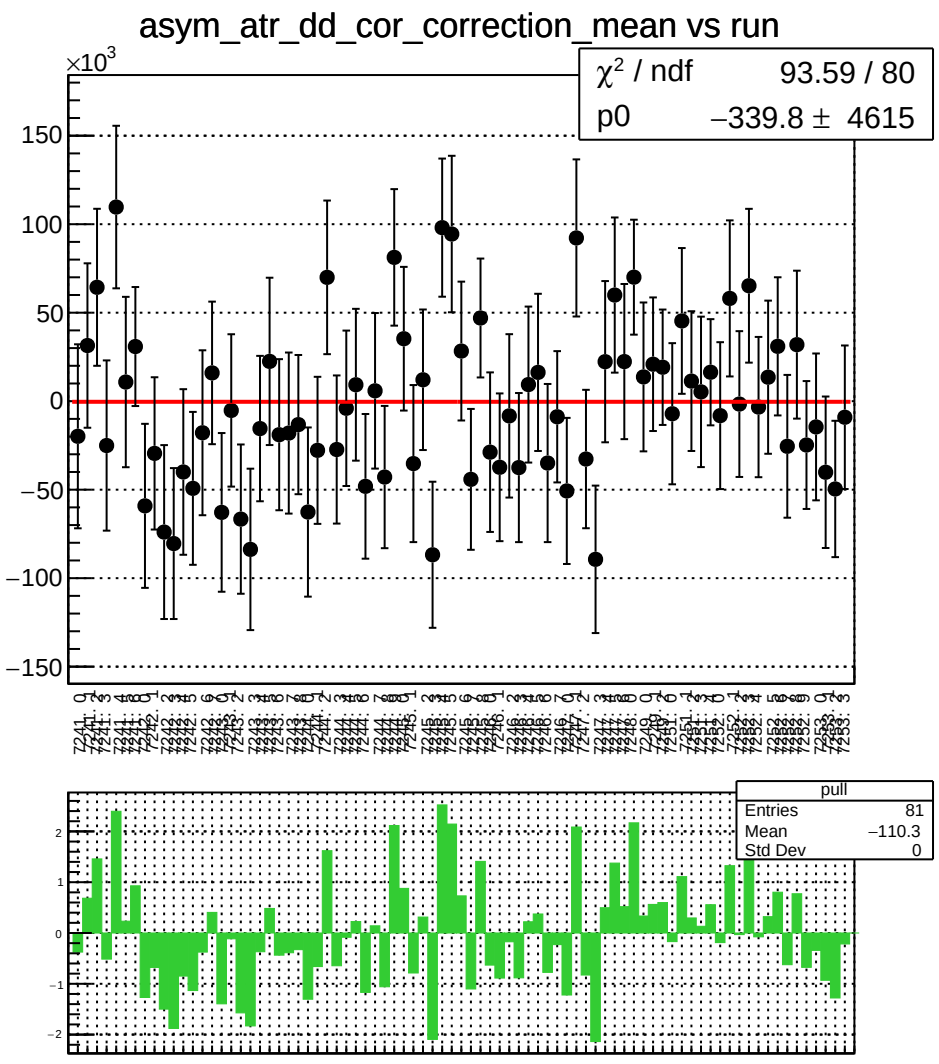

pull1D
Entries 81
Mean −0.02399
Std Dev 1.075
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

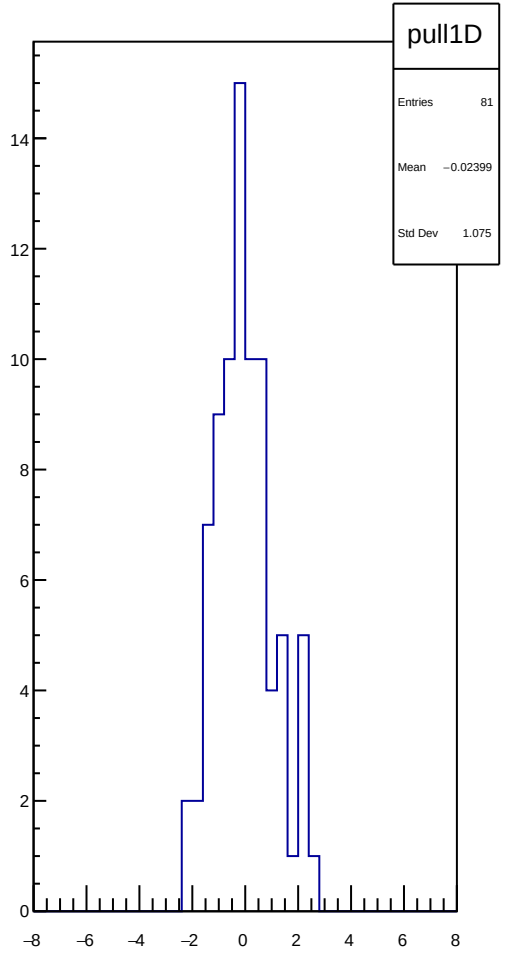

asym_atr_dd_reg_correction_rms vs run
χ² / ndf 5768 / 80
p0 4054 ± 3.264
5000
4800
4600
4400
4200
4000
3800
3600

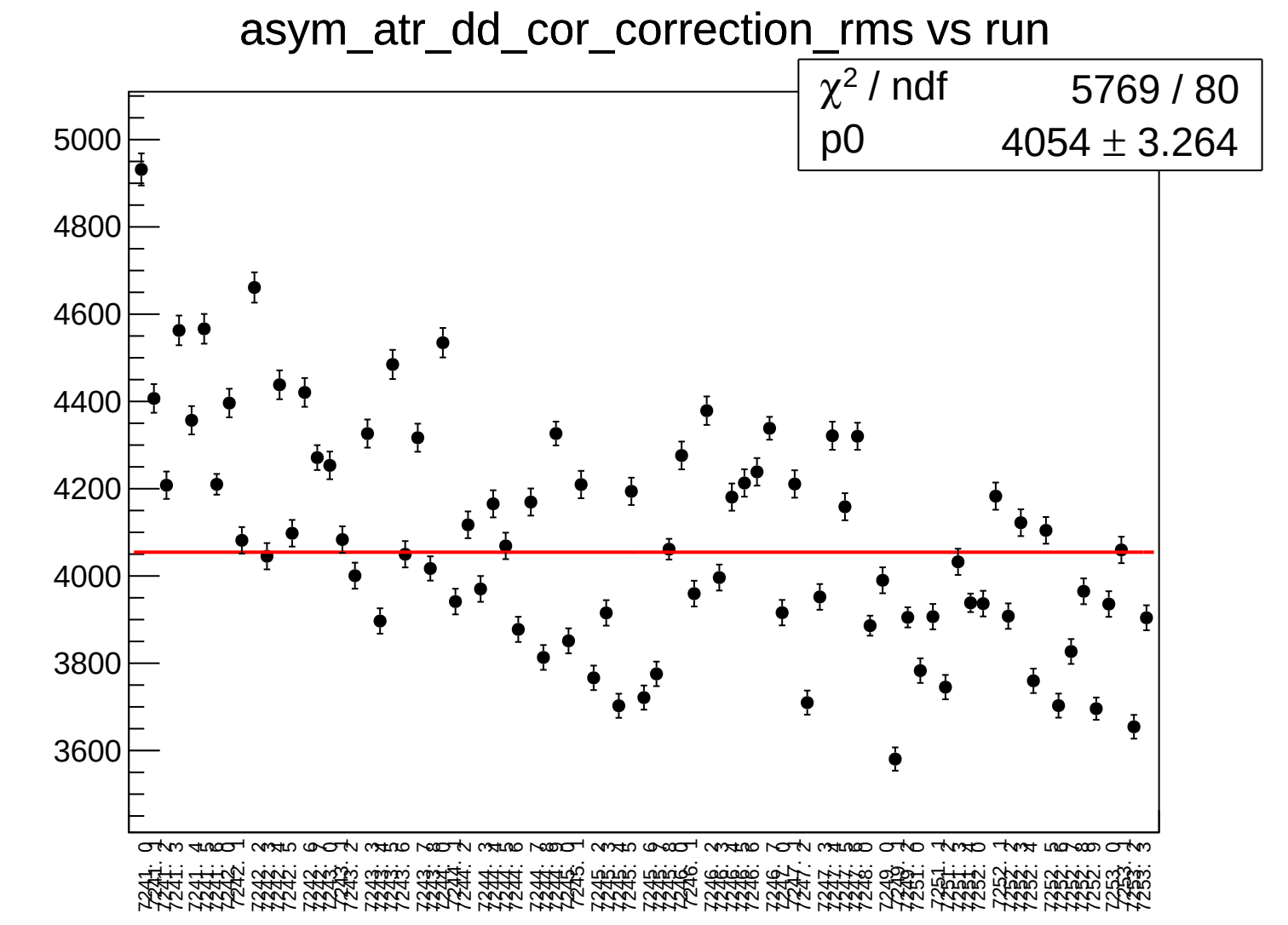

cor_asym_atr_dd_mean vs run
χ² / ndf 80.2 / 80
p0 696.7 ± 2070
pull
Entries 81
Mean −1218
Std Dev 0

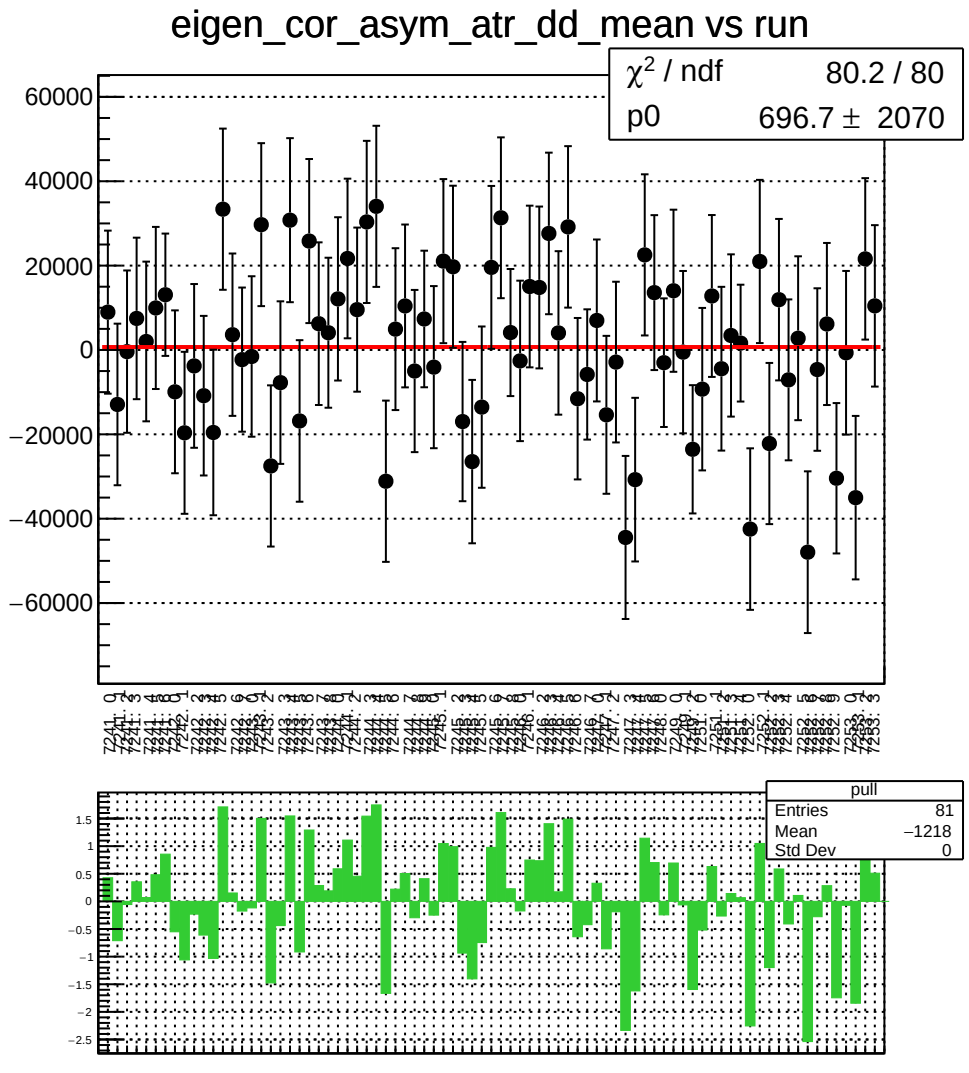

pull1D
Entries 81
Mean 0.003363
Std Dev 0.995

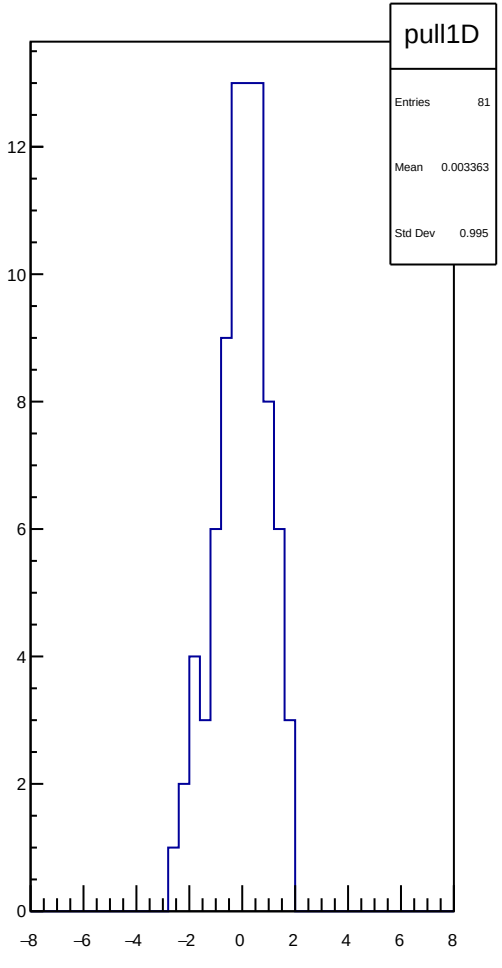

cor_asym_atr_dd_rms vs run
χ^2 / ndf 88.23 / 80
p0 1822 ± 1.464
1880
1860
1840
1820
1800
1780
1760

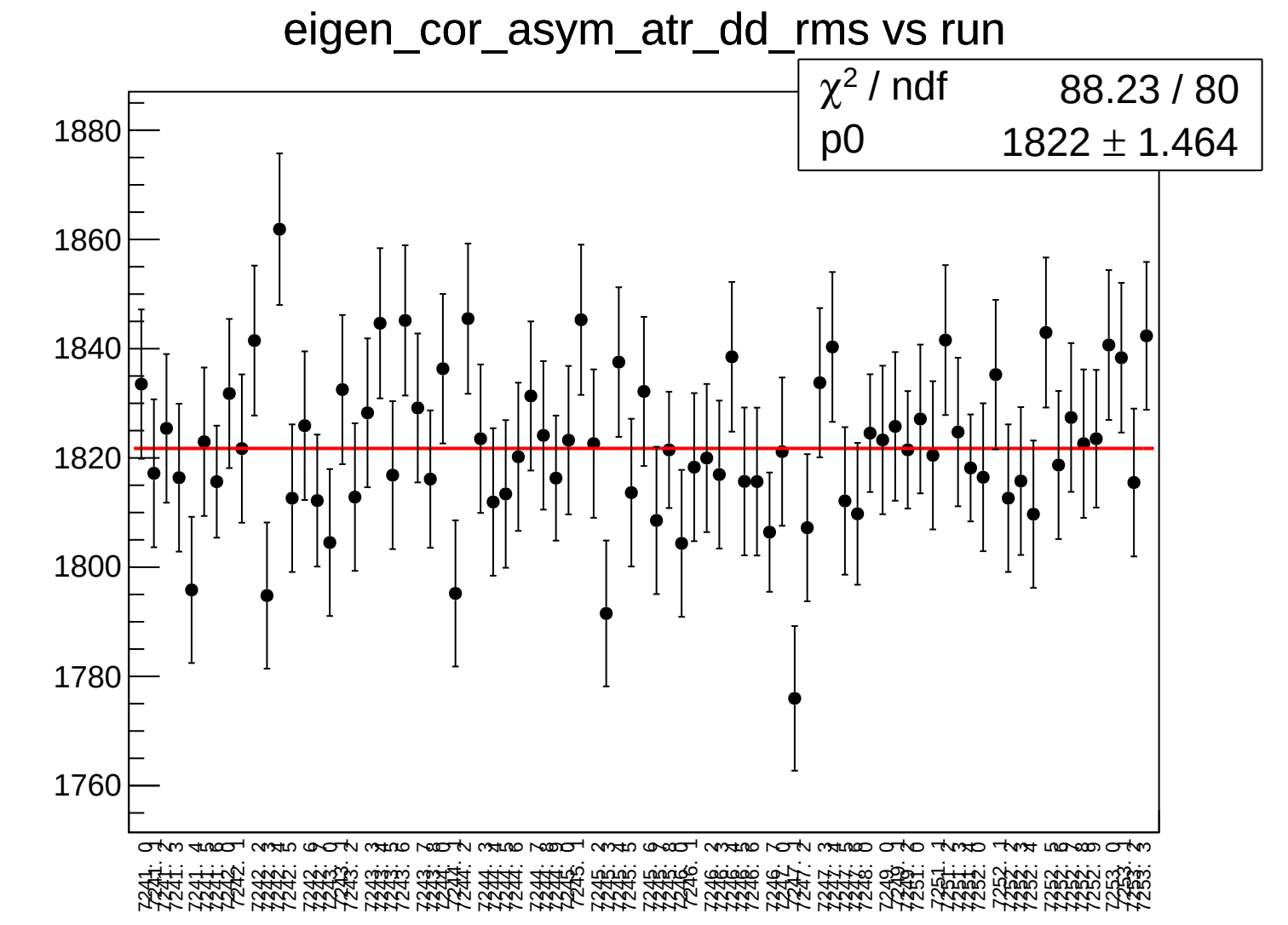

asym_atr_dd_cor_correction_mean vs run
×10^3
χ² / ndf 93.59 / 80
p0 −339.8 ± 4615
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean −110.3
Std Dev 0
2
1
0
−1
−2

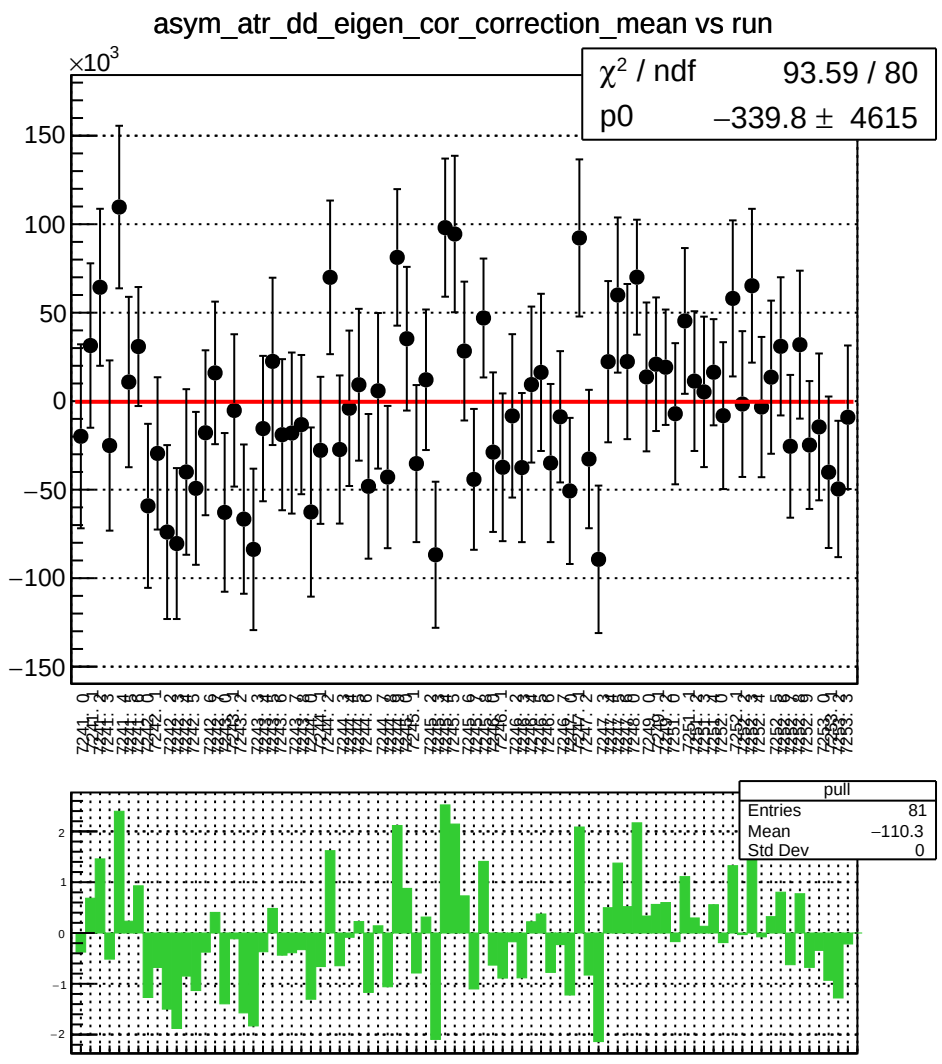

pull1D
Entries 81
Mean −0.02399
Std Dev 1.075
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

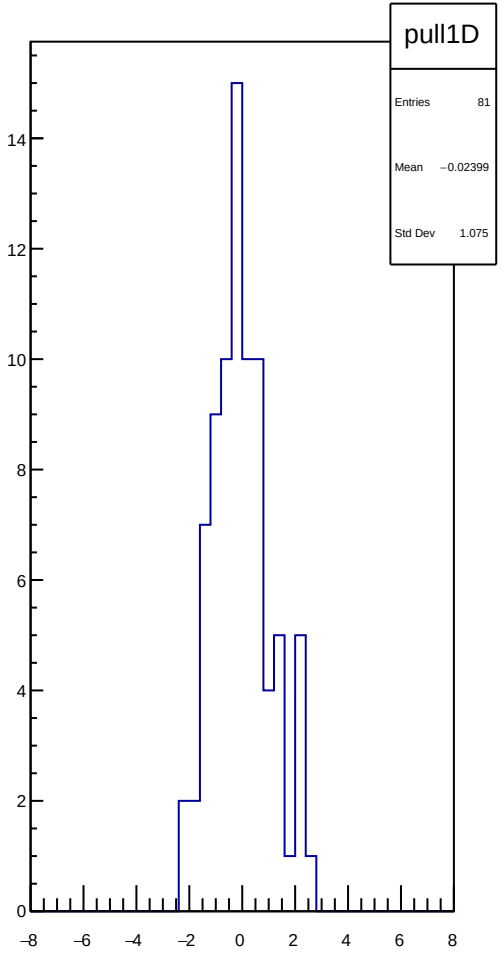

asym_atr_dd_cor_correction_rms vs run
χ² / ndf 5769 / 80
p0 4054 ± 3.264
5000
4800
4600
4400
4200
4000
3800
3600

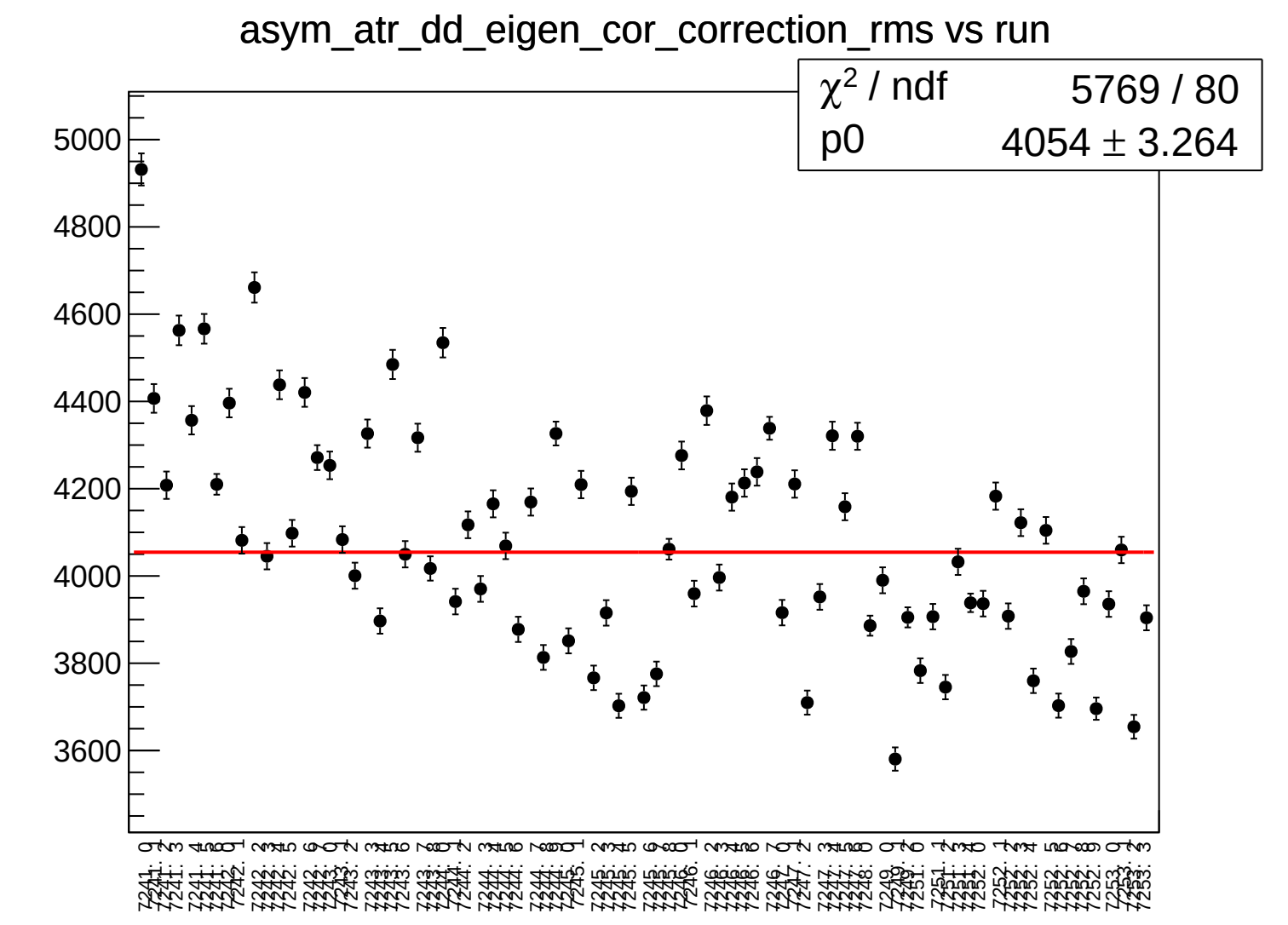

eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 80.2 / 80
p0 696.7 ± 2070
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −1218
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

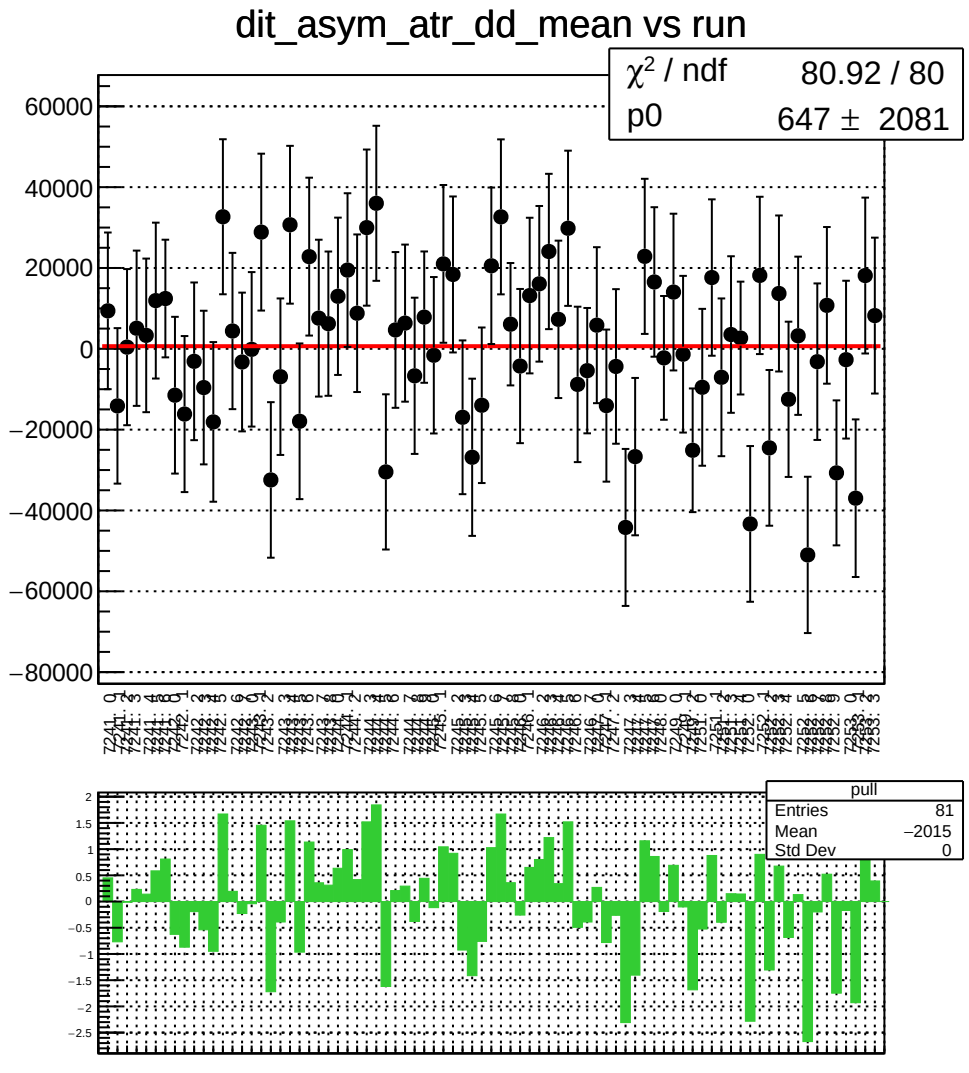

pull1D
Entries 81
Mean 0.003363
Std Dev 0.995
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

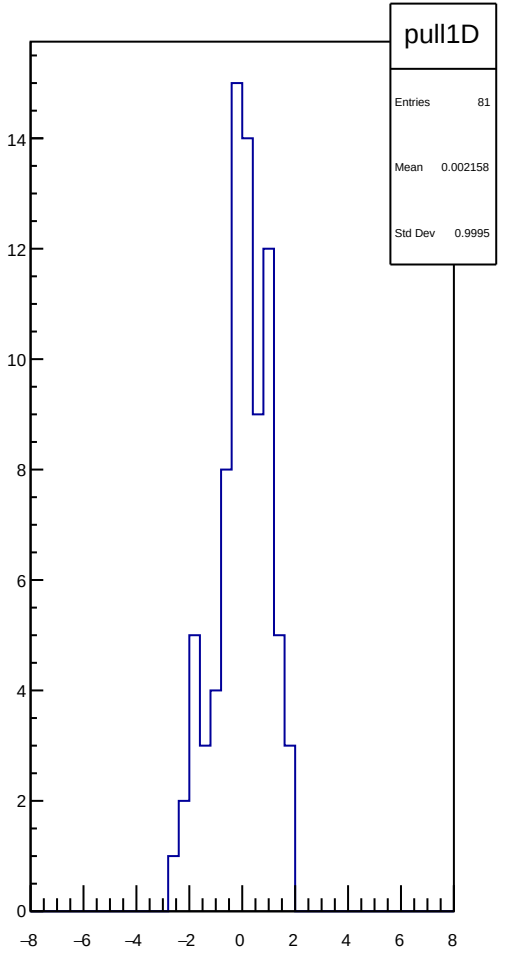

eigen_cor_asym_atr_dd_rms vs run
χ² / ndf 88.23 / 80
p0 1822 ± 1.464
1880
1860
1840
1820
1800
1780
1760

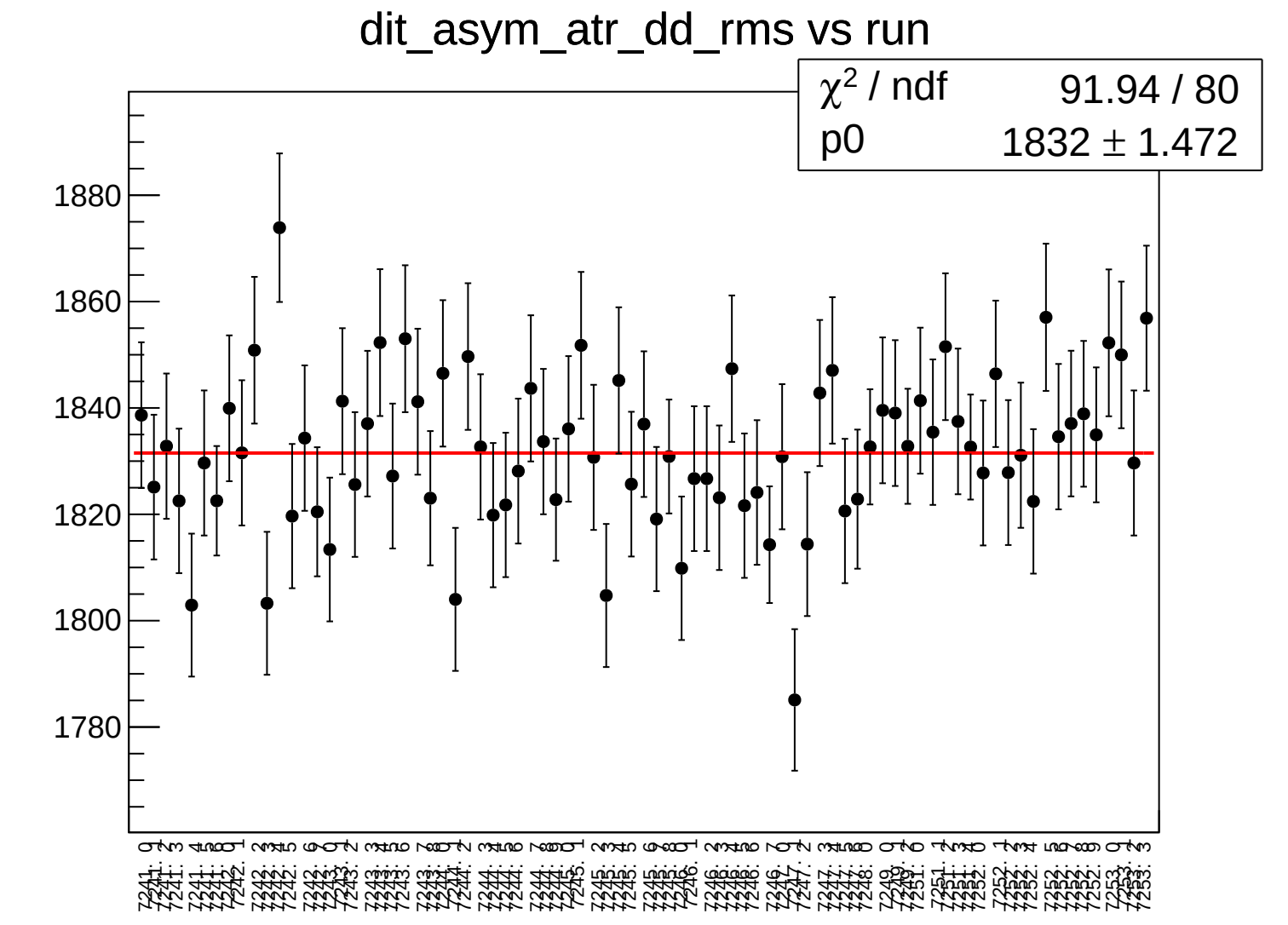

asym_atr_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 93.59 / 80
p0 −339.8 ± 4615
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean −110.3
Std Dev 0
2
1
0
−1
−2

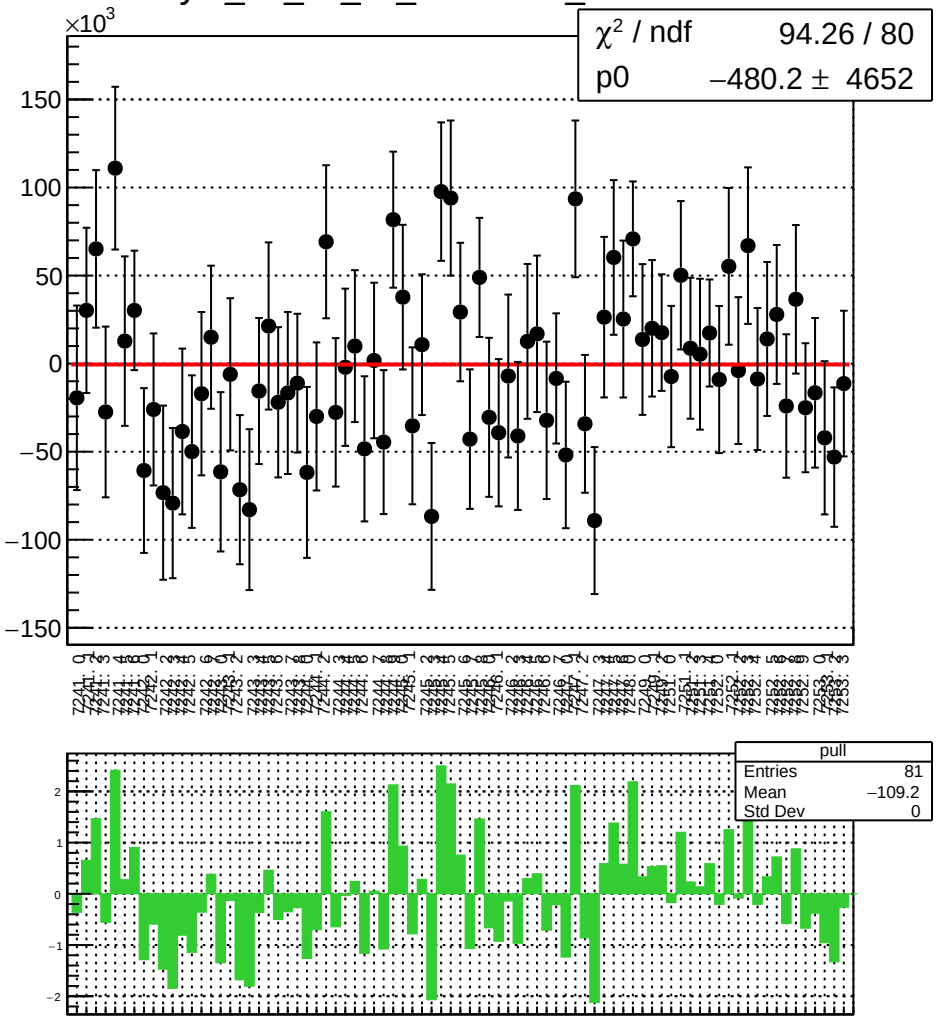

pull1D
Entries 81
Mean −0.02399
Std Dev 1.075
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

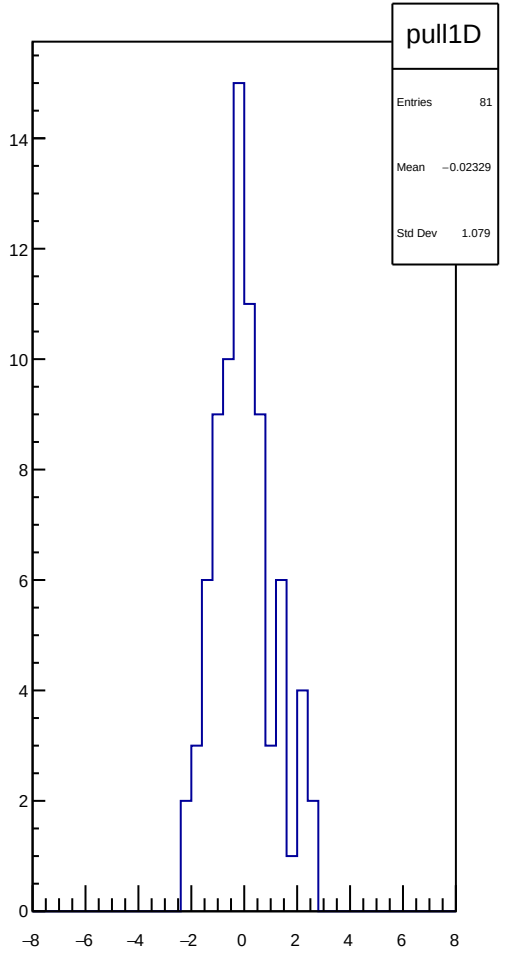

asym_atr_dd_eigen_cor_correction_rms vs run
χ² / ndf 5769 / 80
p0 4054 ± 3.264
5000
4800
4600
4400
4200
4000
3800
3600

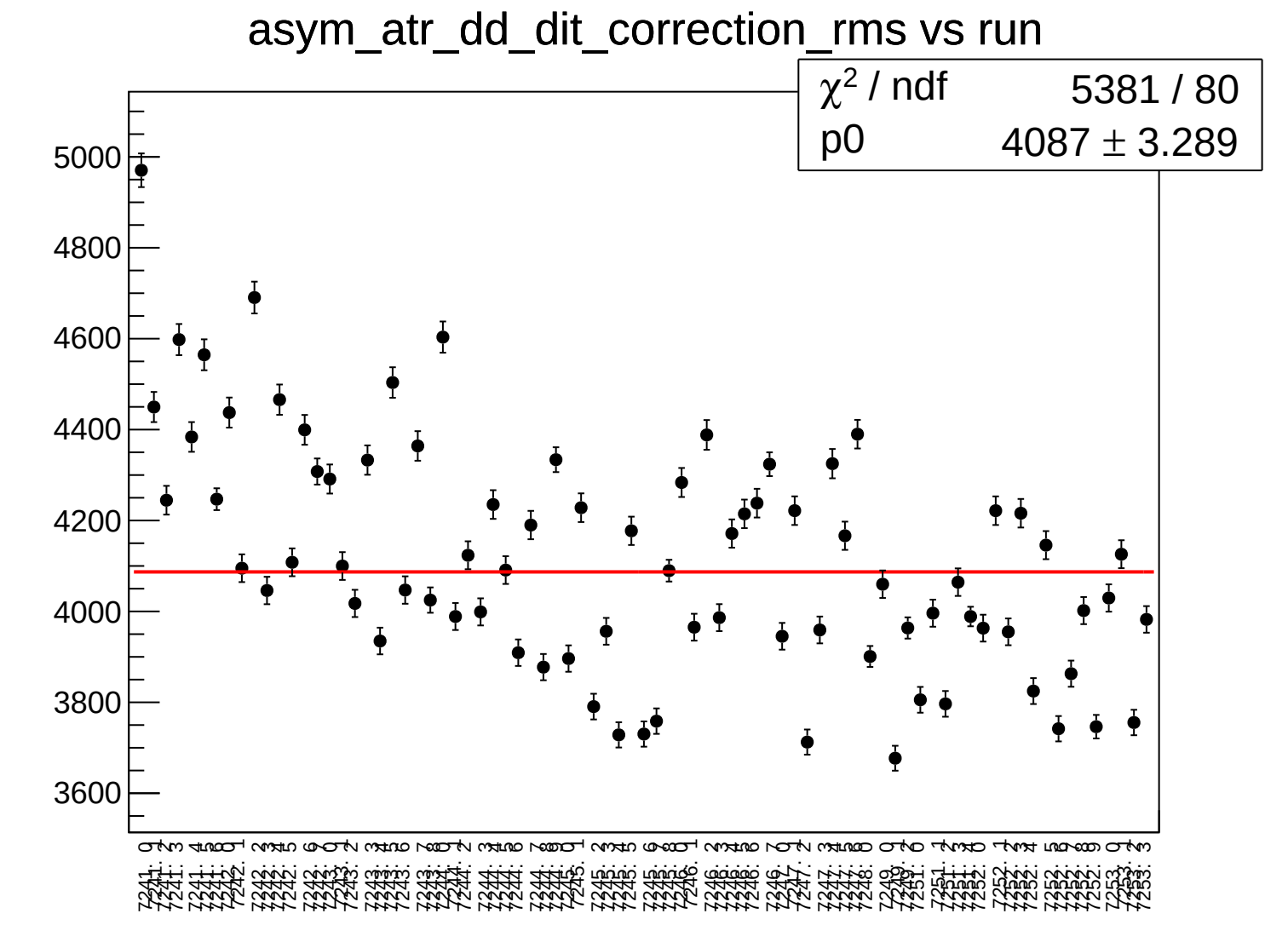

dit_asym_atr_dd_mean vs run
χ² / ndf 80.92 / 80
p0 647 ± 2081
pull
Entries 81
Mean −2015
Std Dev 0

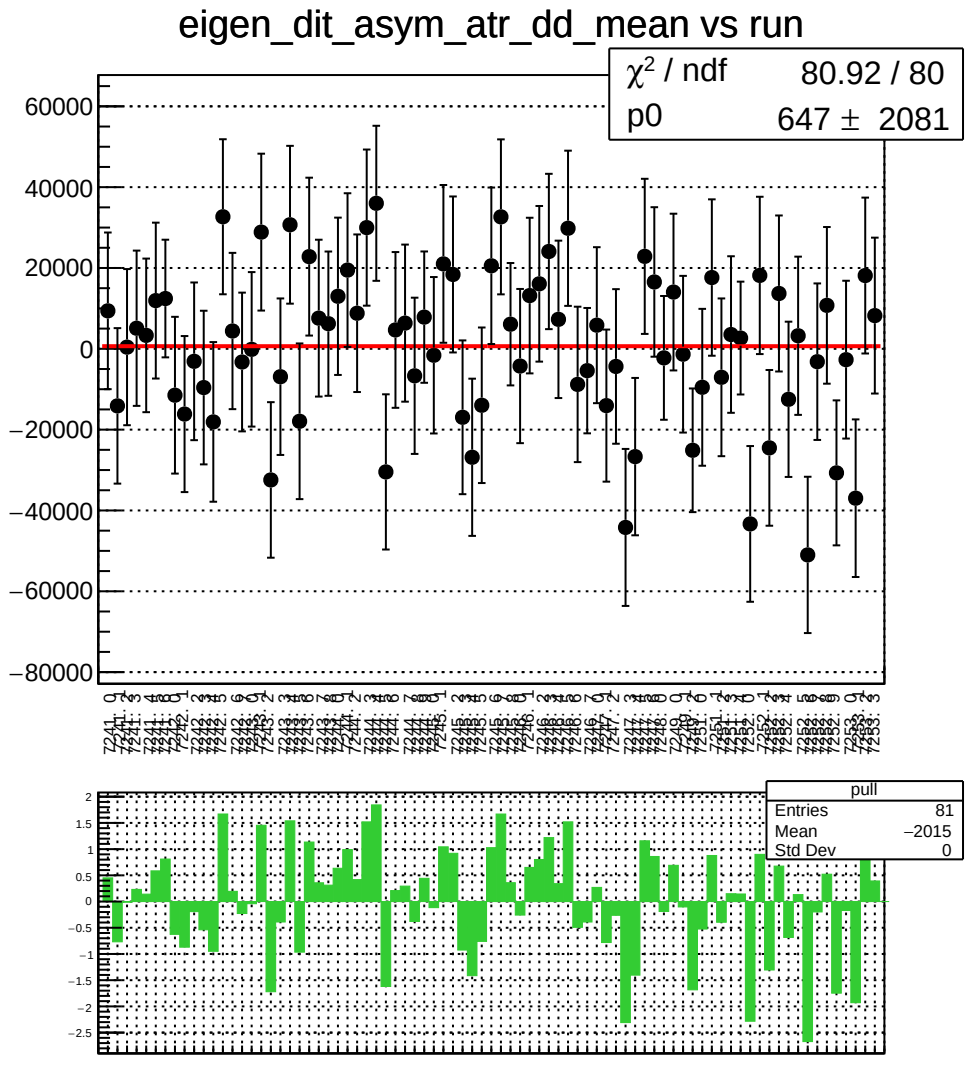

pull1D
Entries 81
Mean 0.002158
Std Dev 0.9995

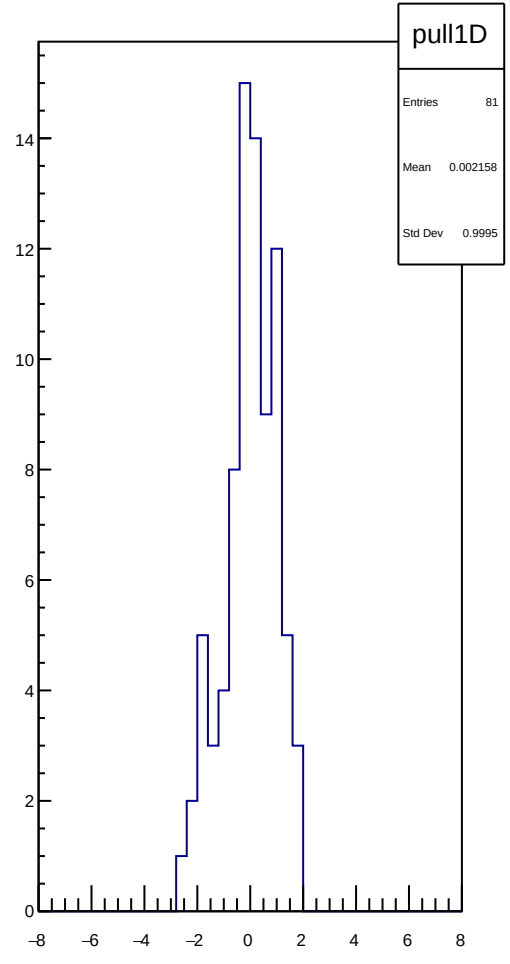

dit_asym_atr_dd_rms vs run
χ² / ndf 91.94 / 80
p0 1832 ± 1.472
1880
1860
1840
1820
1800
1780

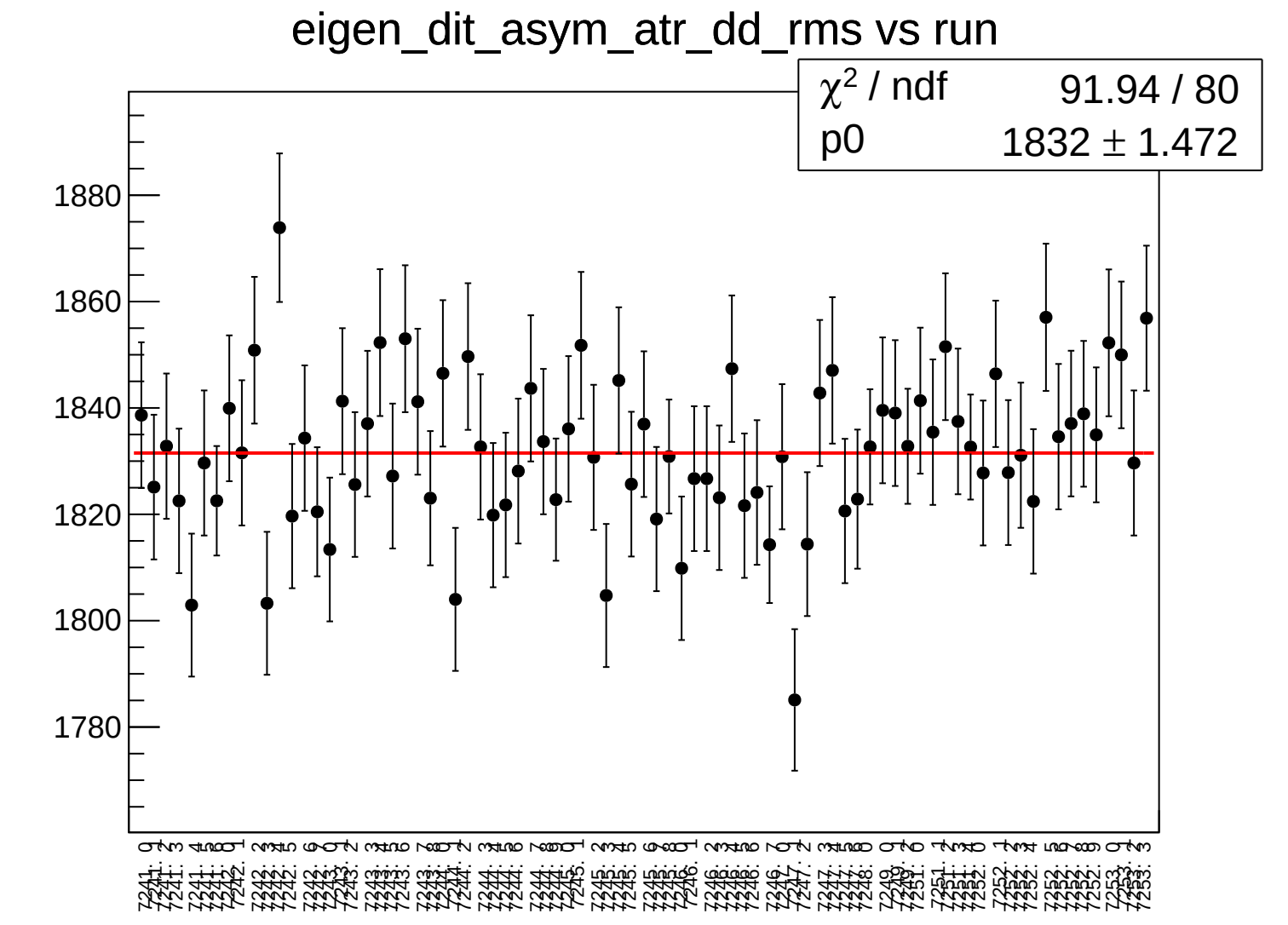

asym_atr_dd_dit_correction_mean vs run
×10^3
χ² / ndf 94.26 / 80
p0 −480.2 ± 4652
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean −109.2
Std Dev 0
2
1
0
−1
−2

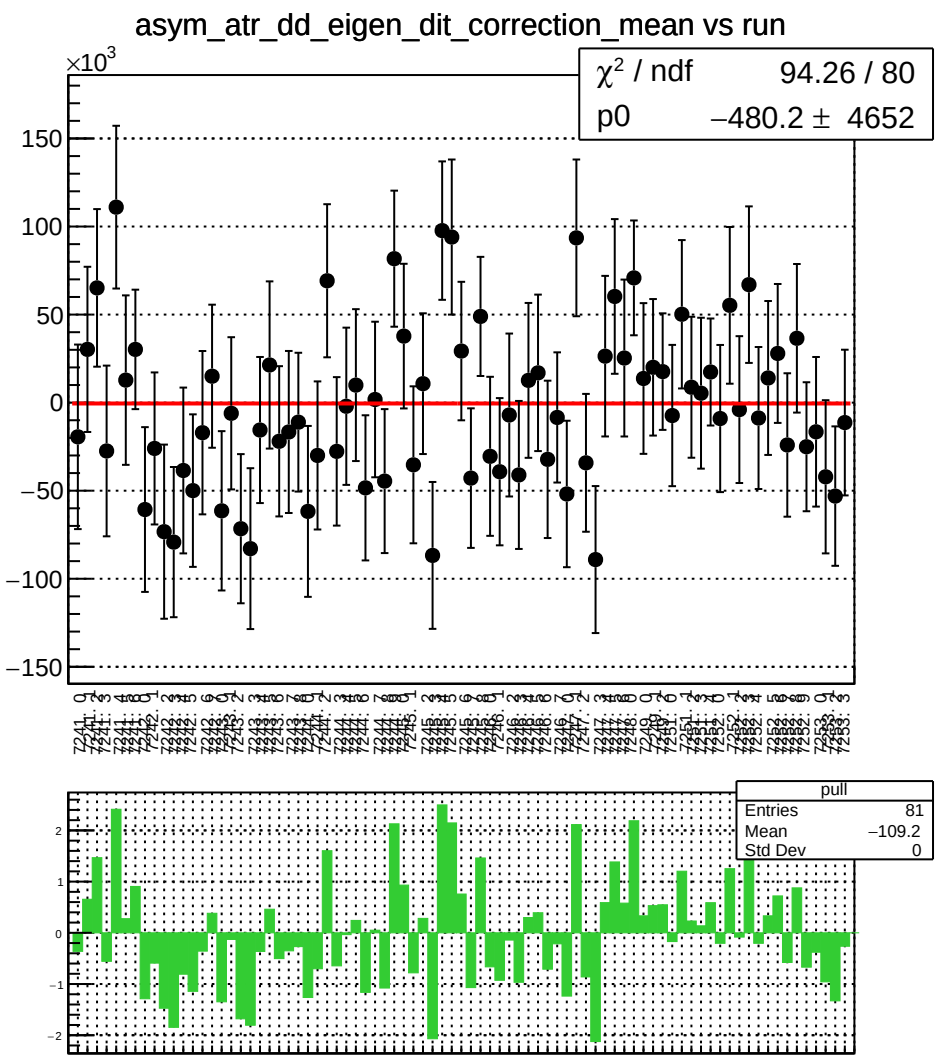

pull1D
Entries 81
Mean −0.02329
Std Dev 1.079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

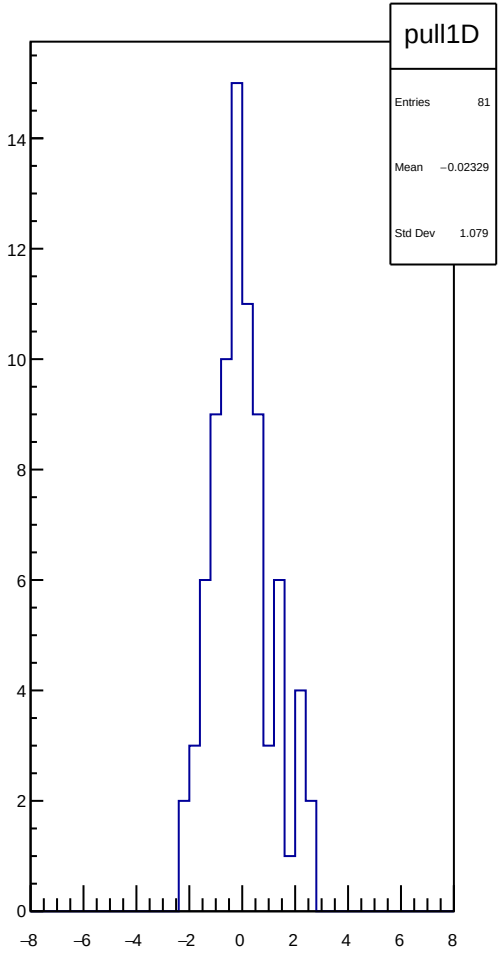

asym_atr_dd_dit_correction_rms vs run
χ^2 / ndf 5381 / 80
p0 4087 ± 3.289
5000
4800
4600
4400
4200
4000
3800
3600

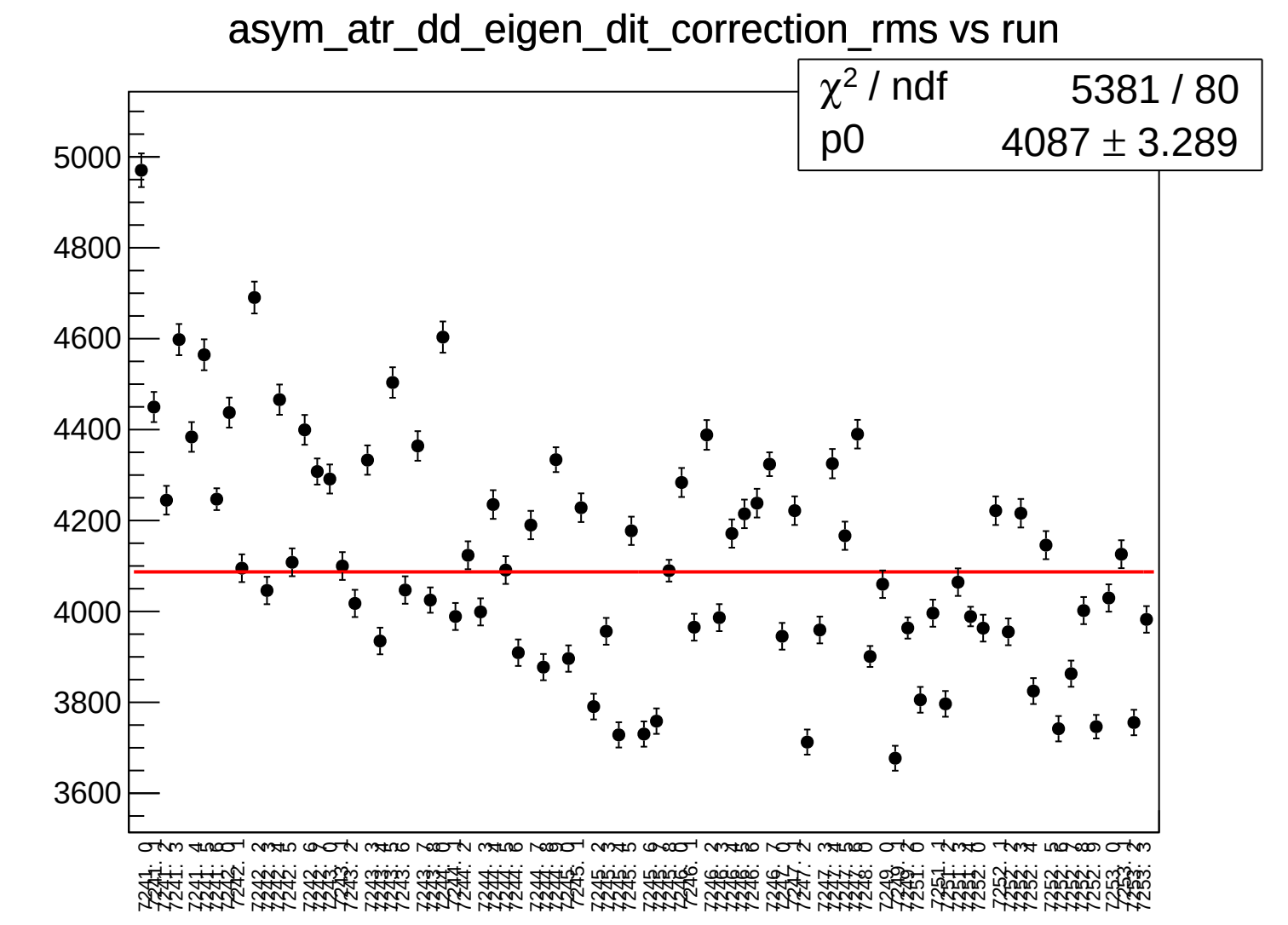

eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 80.92 / 80
p0 647 ± 2081
pull
Entries 81
Mean −2015
Std Dev 0

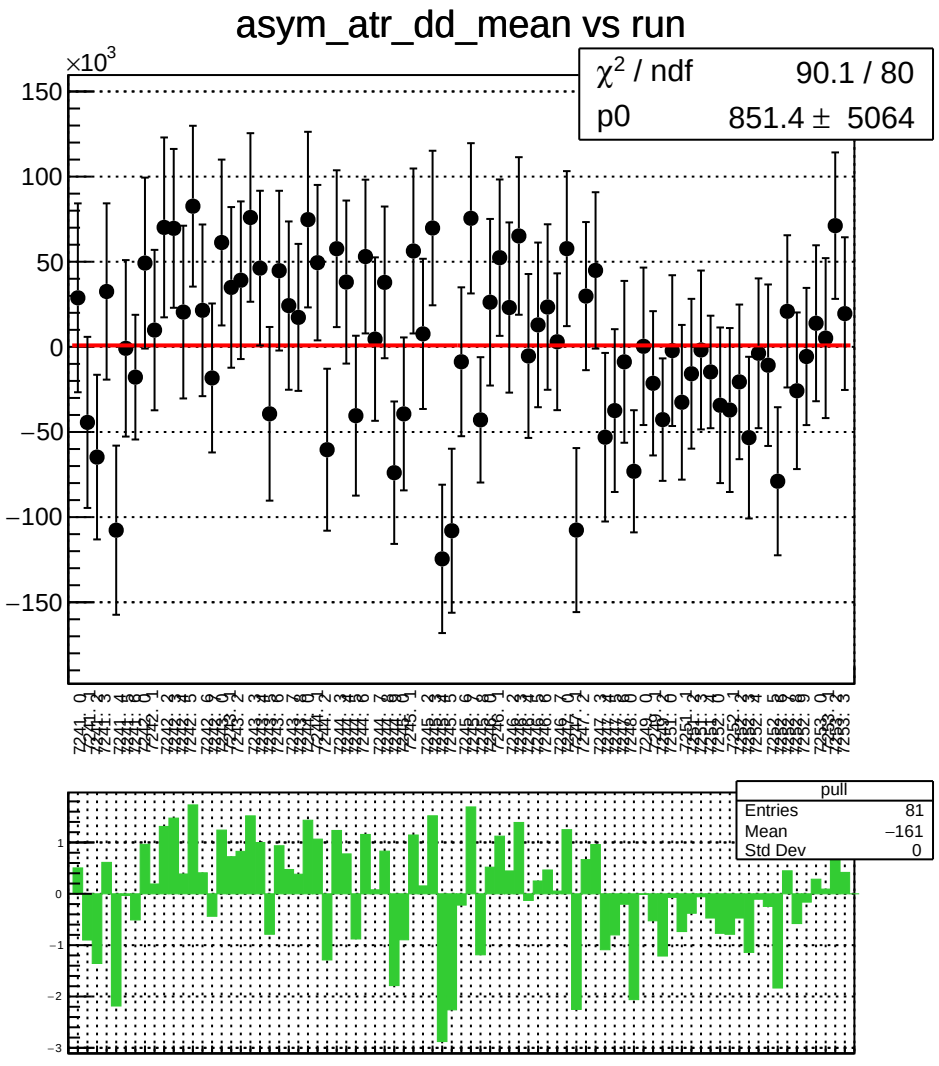

pull1D
Entries 81
Mean 0.002158
Std Dev 0.9995

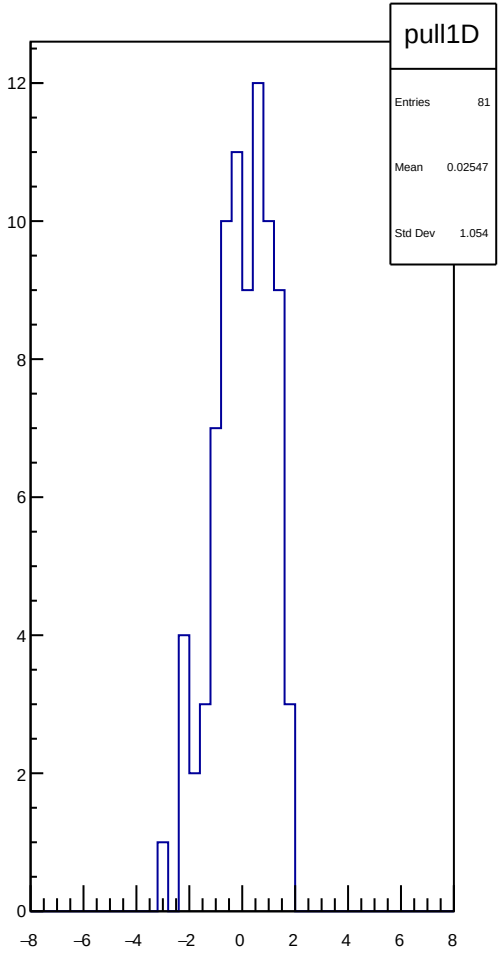

eigen_dit_asym_atr_dd_rms vs run
χ² / ndf 91.94 / 80
p0 1832 ± 1.472
1880
1860
1840
1820
1800
1780

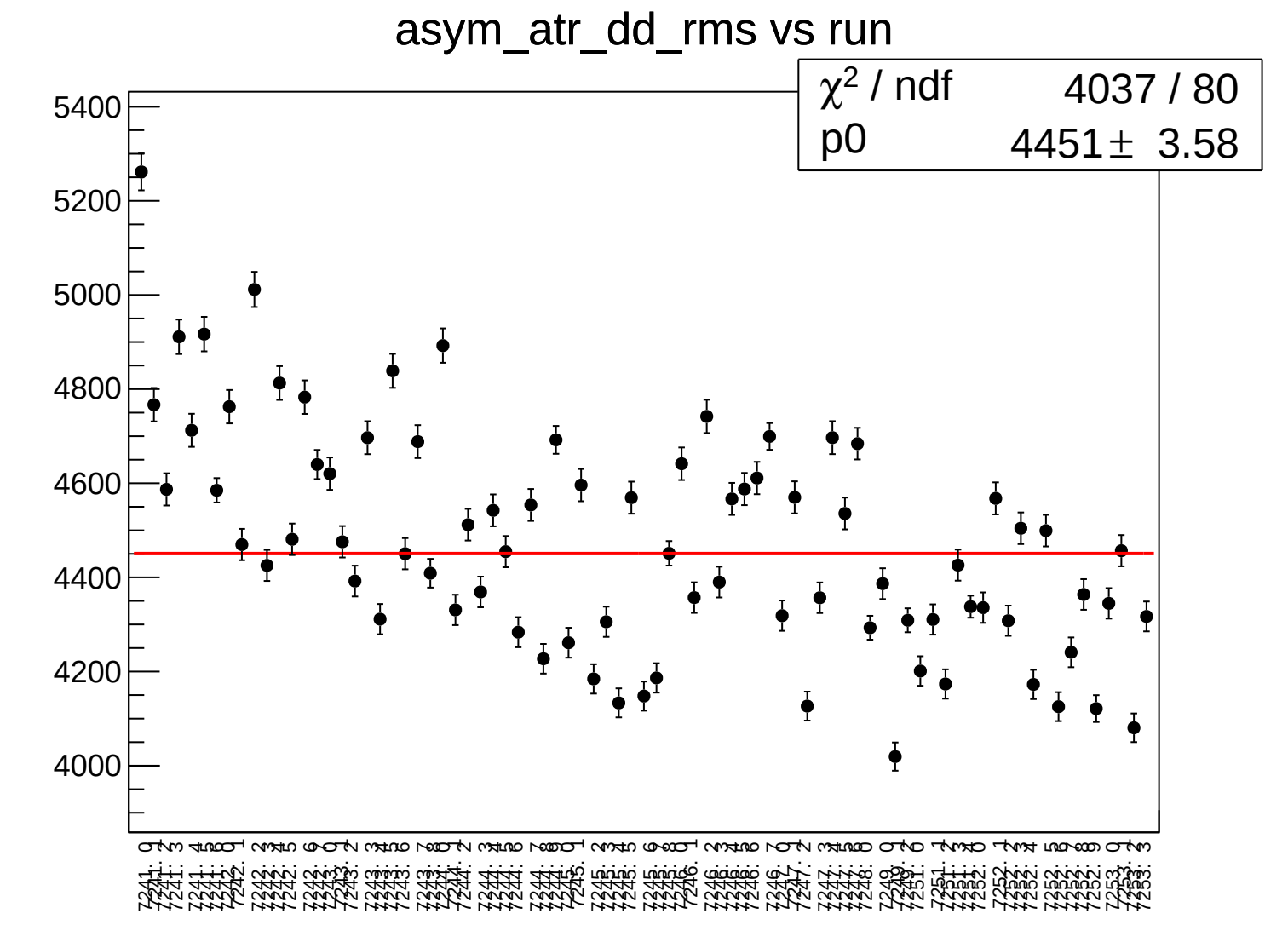

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 94.26 / 80
p0 −480.2 ± 4652
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean −109.2
Std Dev 0
2
1
0
−1
−2

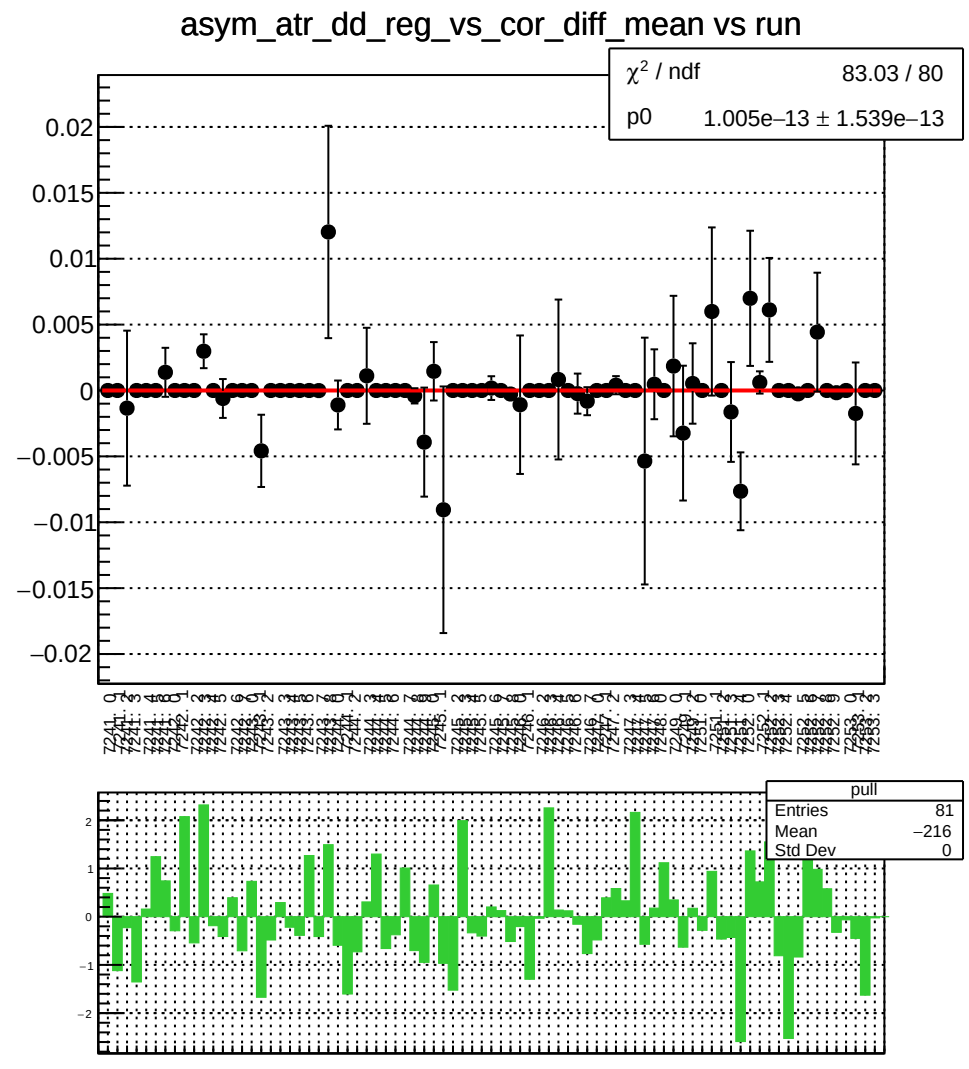

pull1D
Entries 81
Mean −0.02329
Std Dev 1.079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

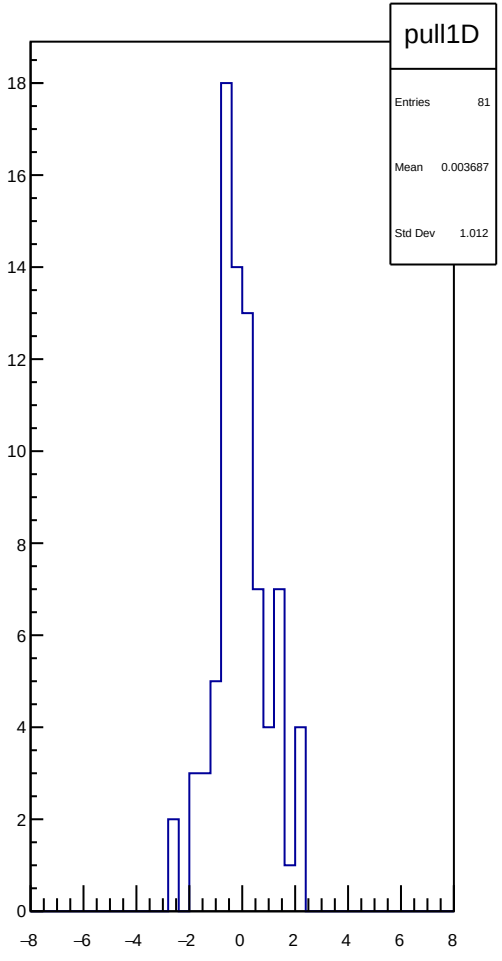

asym_atr_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 5381 / 80
p0 4087 ± 3.289
5000
4800
4600
4400
4200
4000
3800
3600

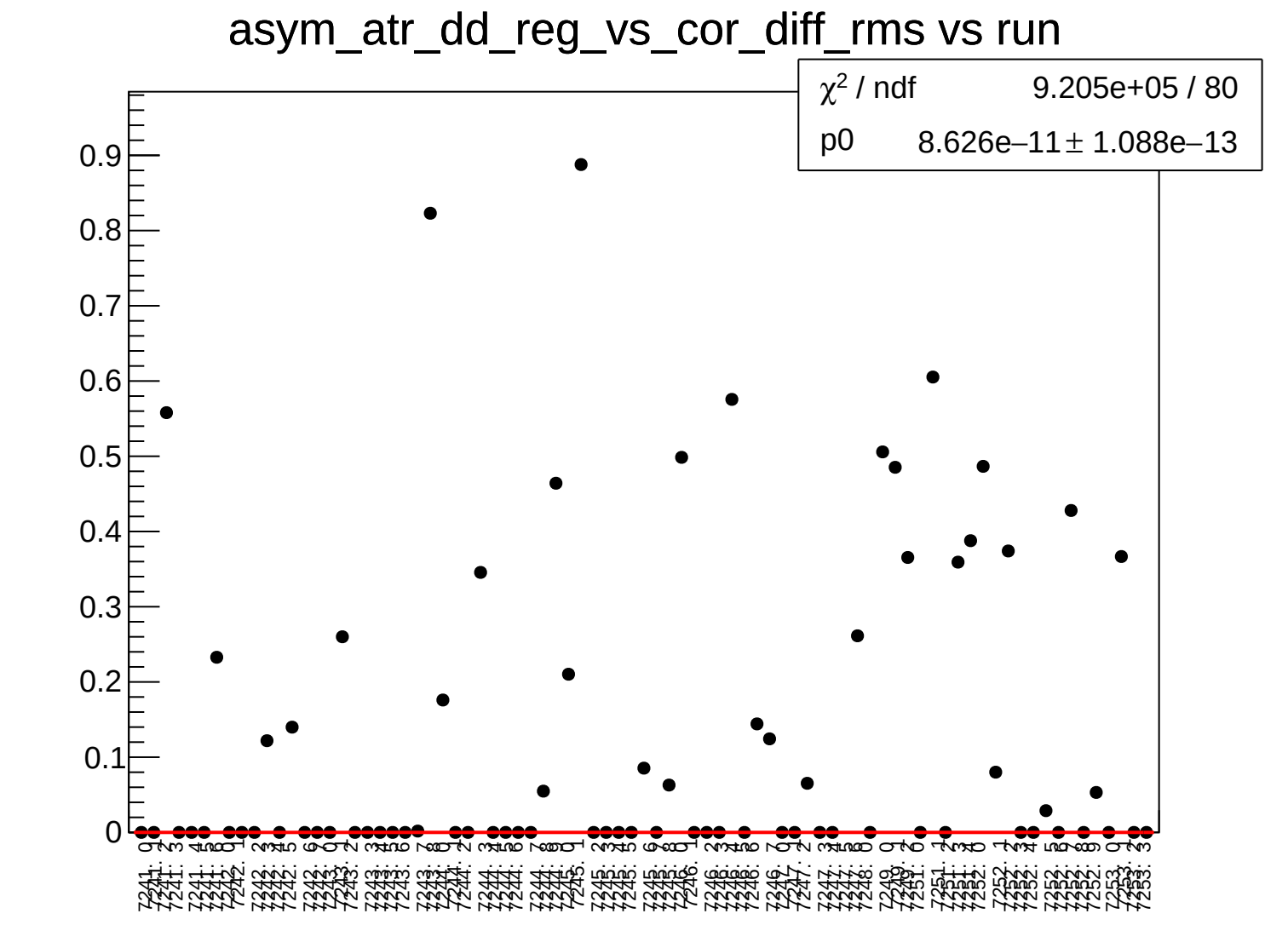

asym_atr_dd_mean vs run
×10^3
χ² / ndf 90.1 / 80
p0 851.4 ± 5064
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean −161
Std Dev 0
1
0
−1
−2
−3

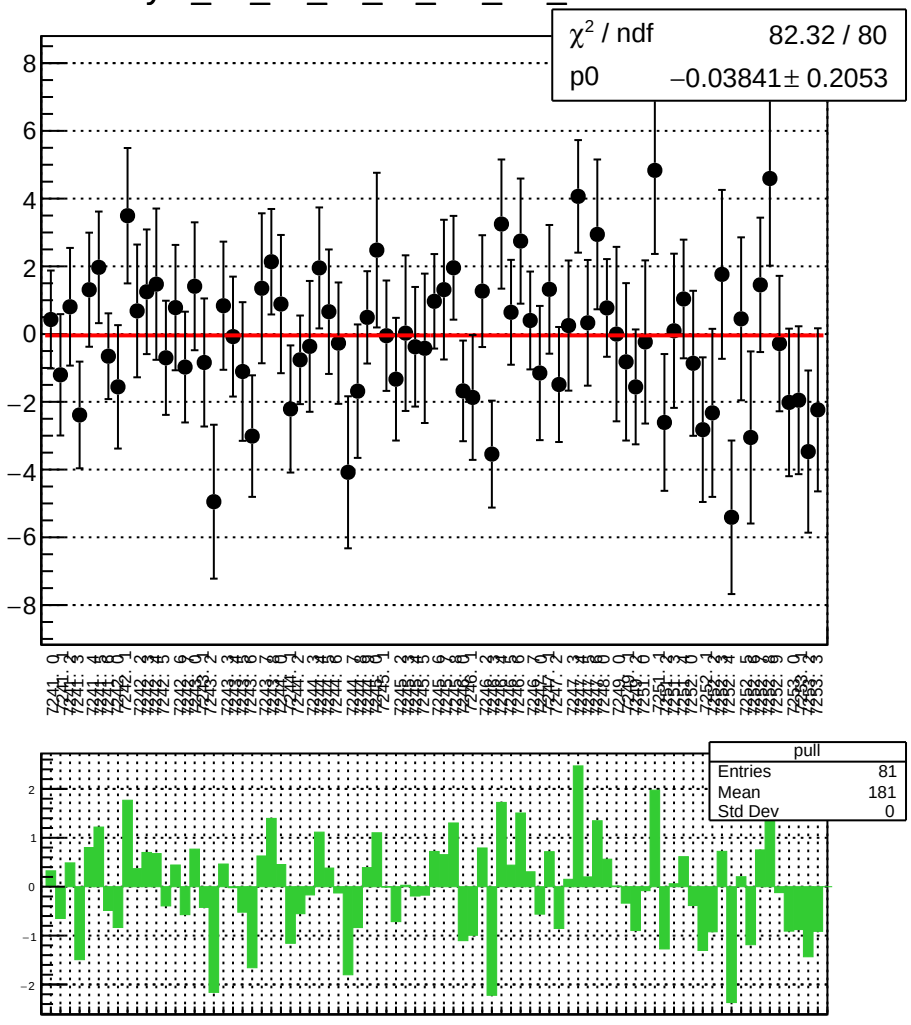

pull1D
Entries 81
Mean 0.02547
Std Dev 1.054
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

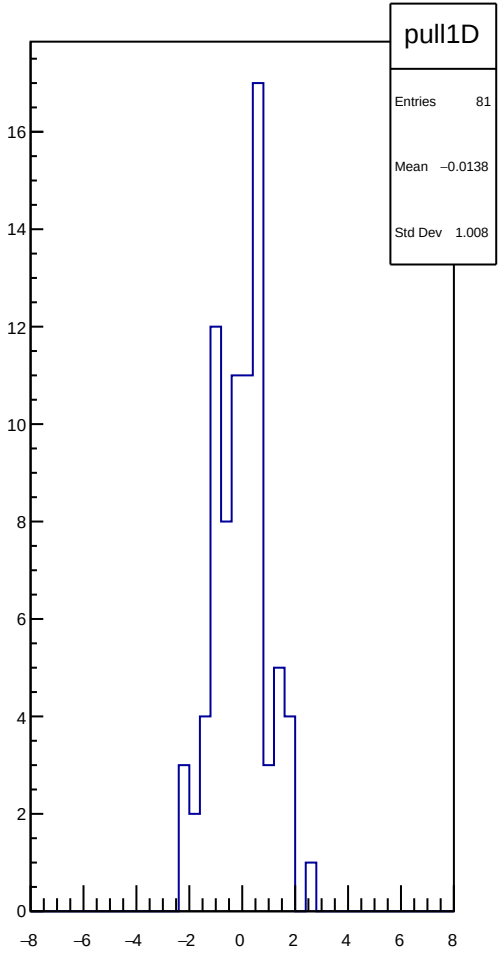

asym_atr_dd_rms vs run
χ² / ndf 4037 / 80
p0 4451 ± 3.58
5400
5200
5000
4800
4600
4400
4200
4000

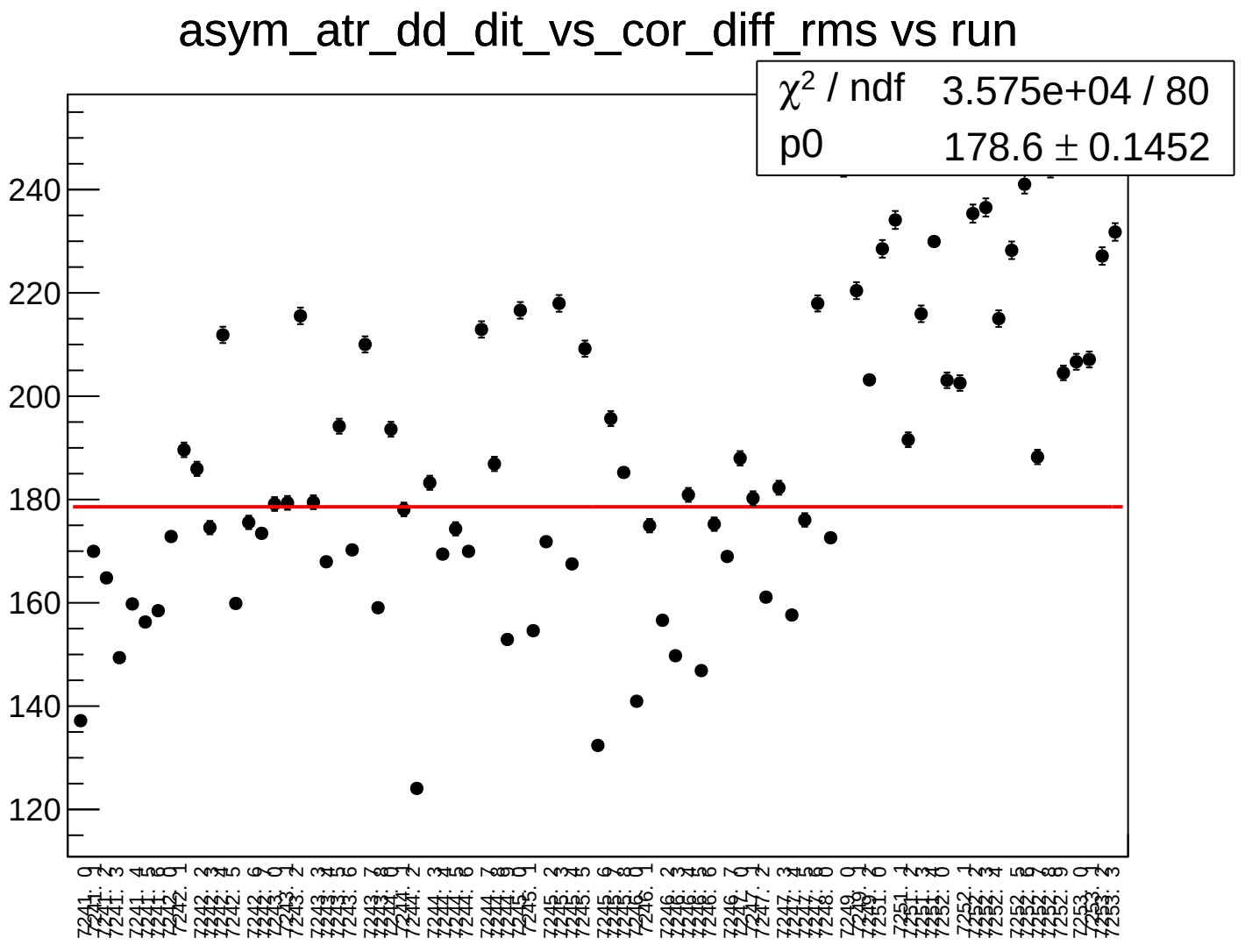

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 83.03 / 80
p0 1.005e−13 ± 1.539e−13
pull
Entries 81
Mean −216
Std Dev 0

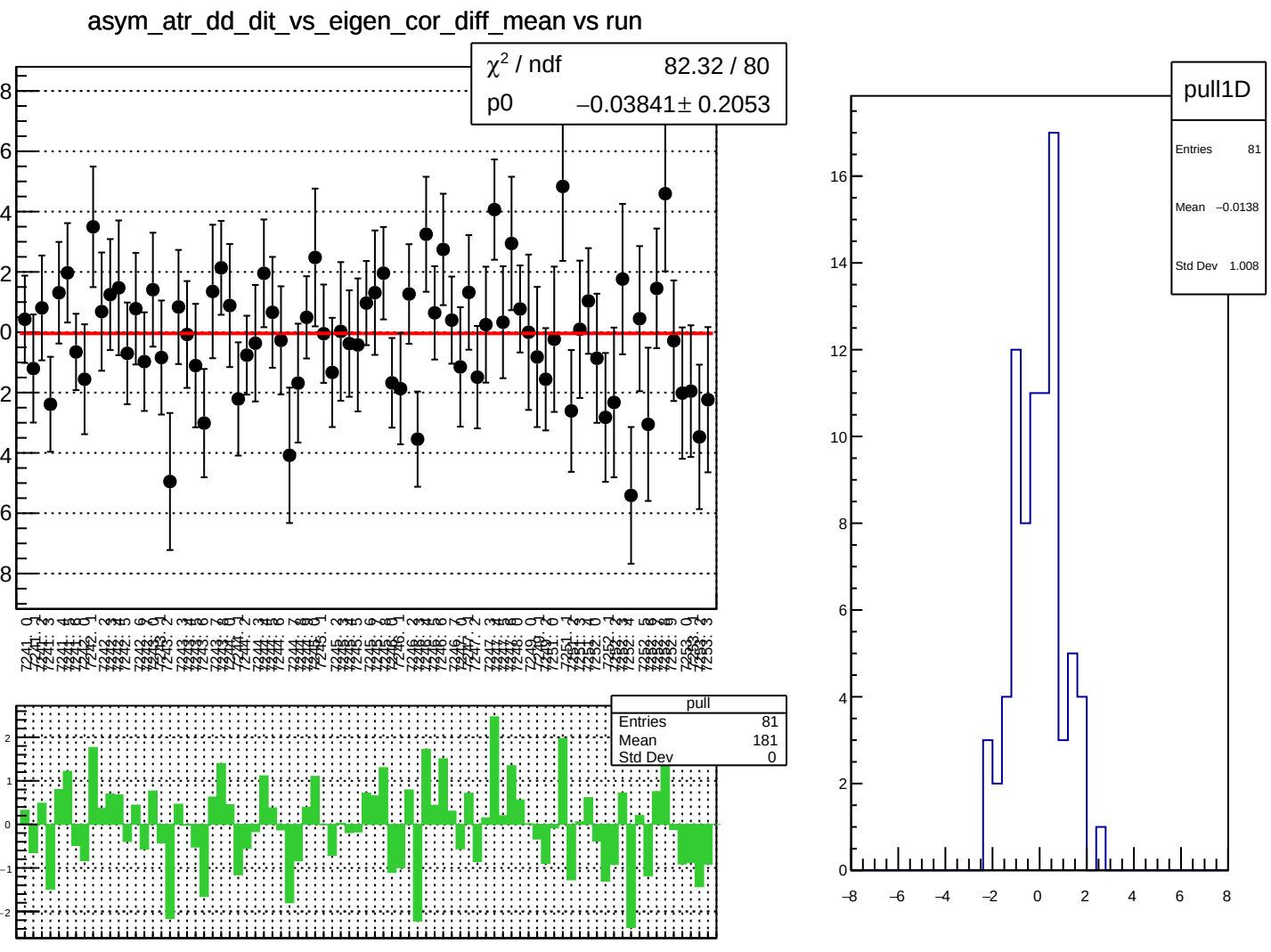

pull1D
Entries 81
Mean 0.003687
Std Dev 1.012

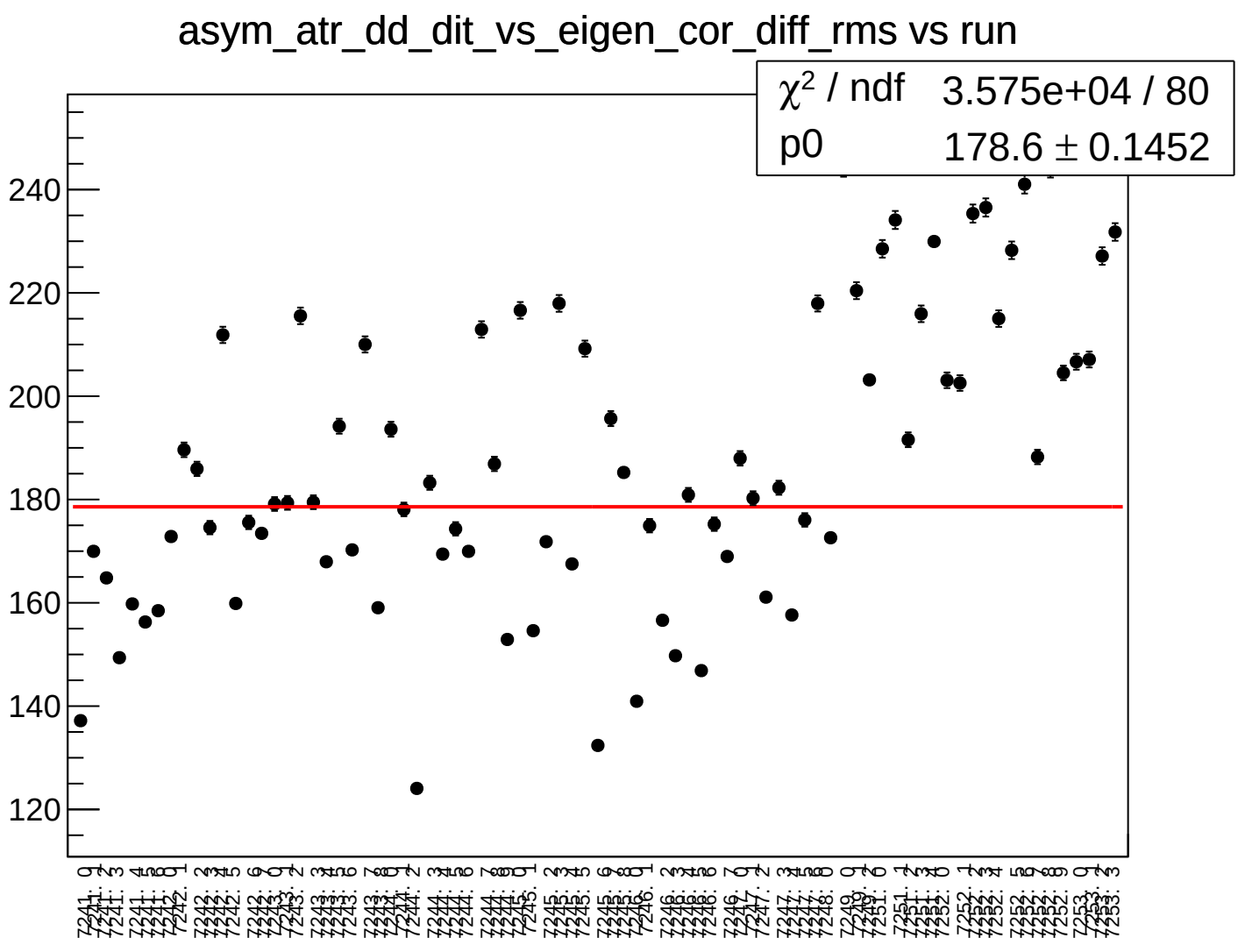

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.205e+05 / 80
p0 8.626e−11 ± 1.088e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

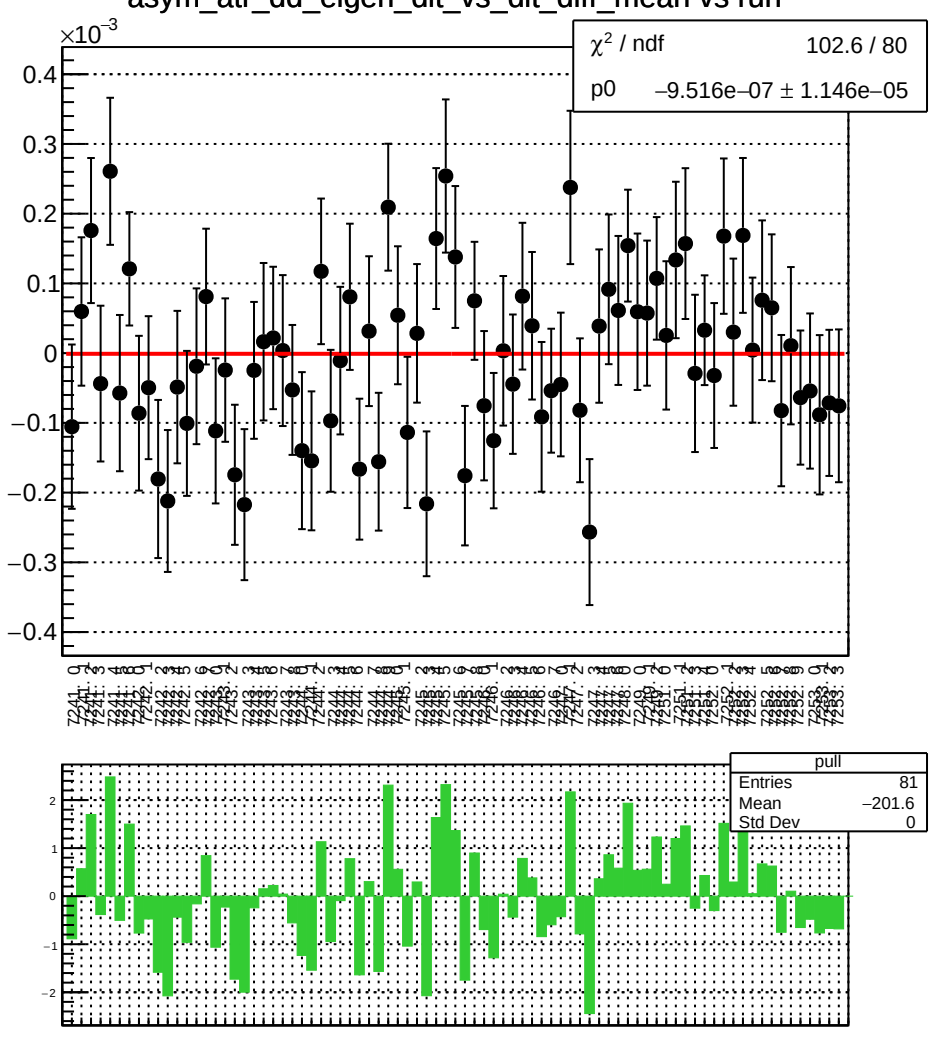

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 82.32 / 80
p0 −0.03841 ± 0.2053
pull
Entries 81
Mean 181
Std Dev 0

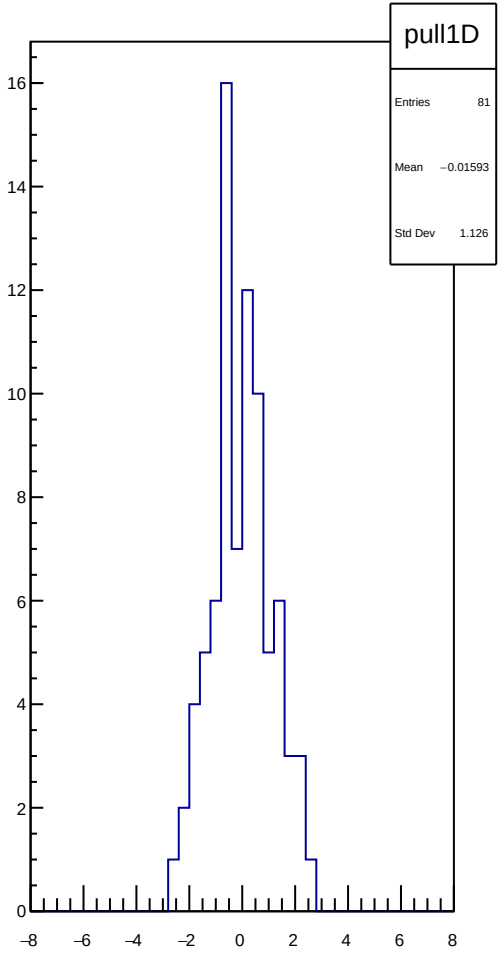

pull1D
Entries 81
Mean −0.0138
Std Dev 1.008

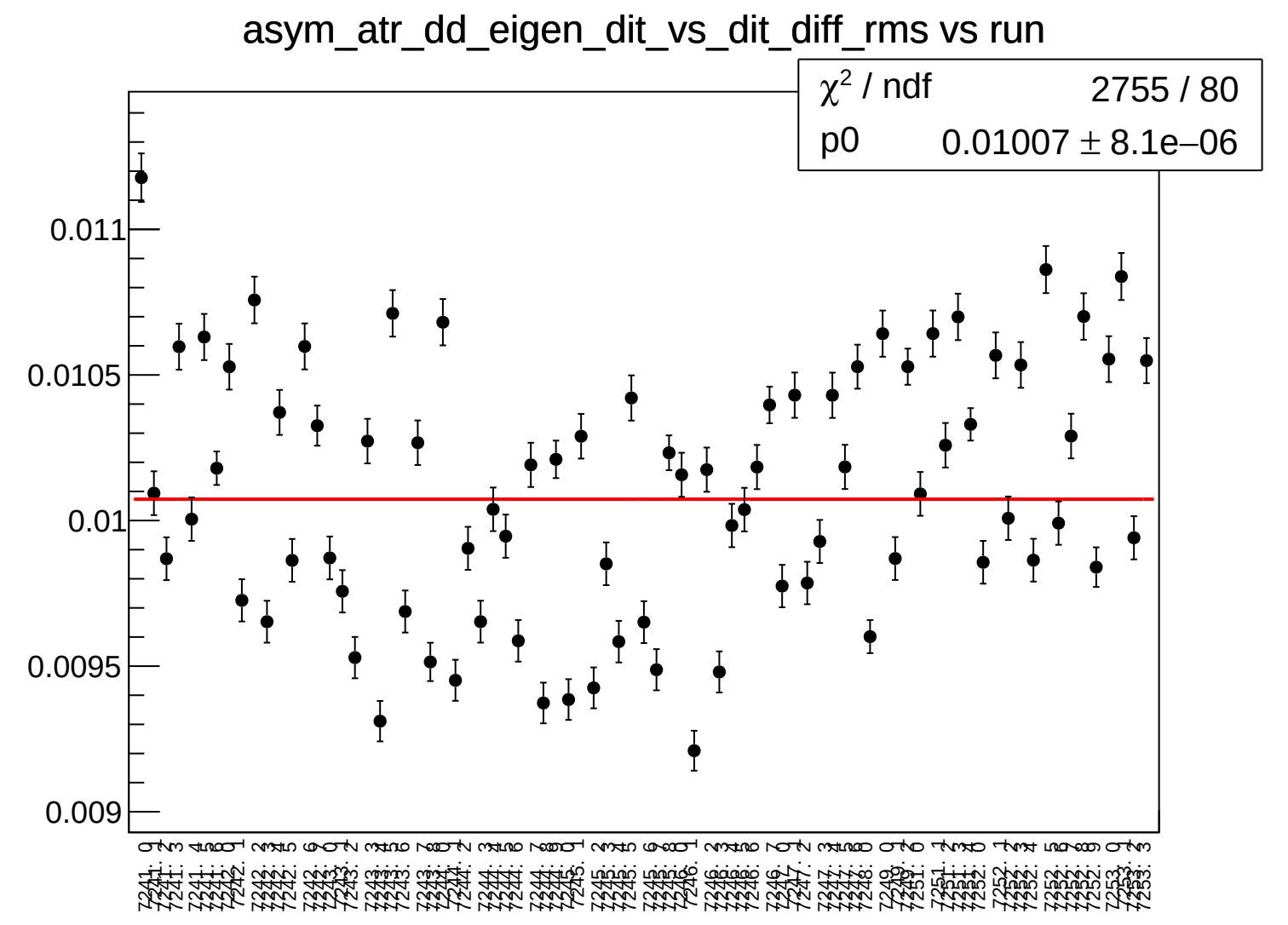

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.575e+04 / 80
p0 178.6 ± 0.1452
240
220
200
180
160
140
120

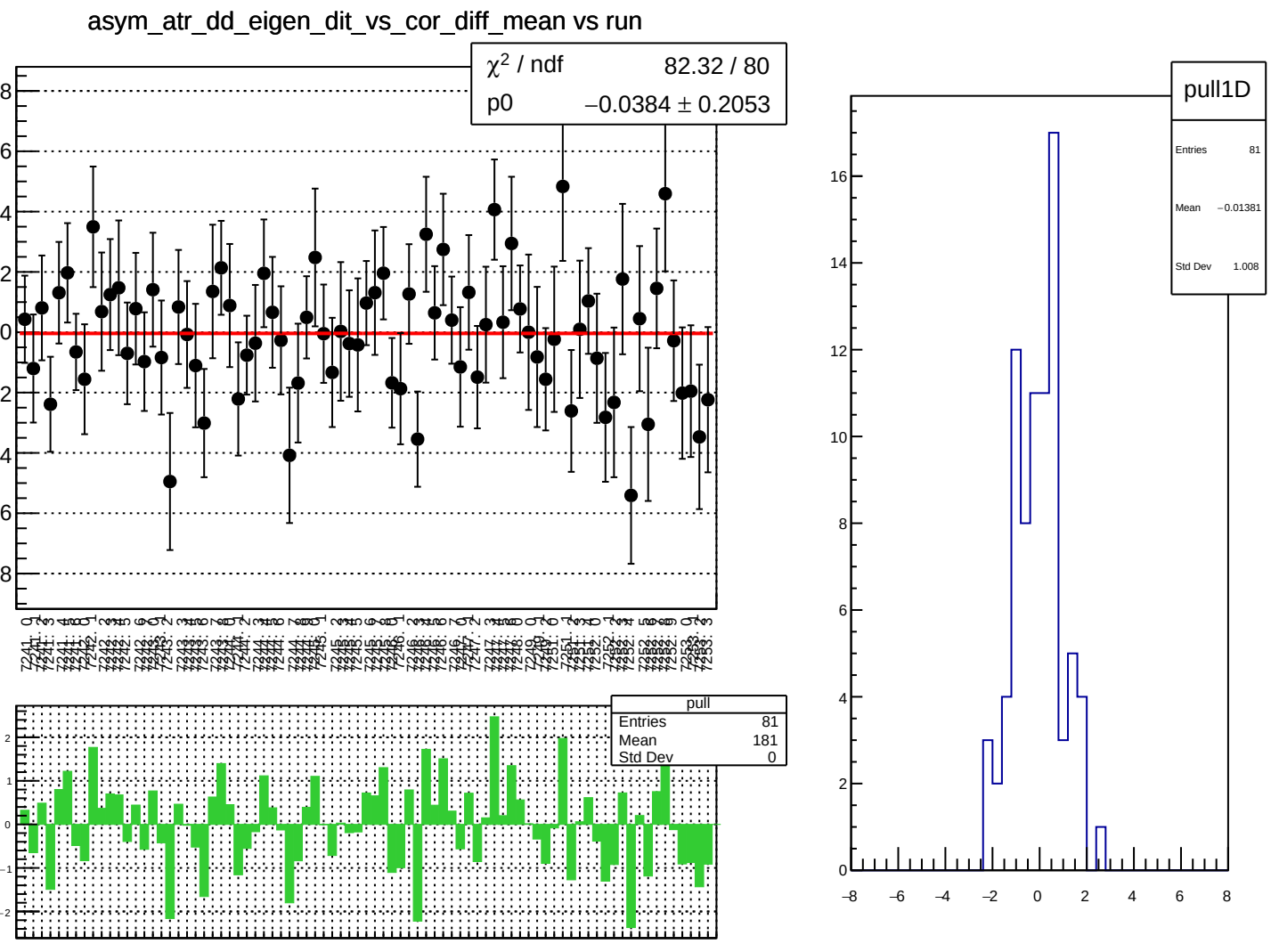

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.32 / 80
p0 −0.03841 ± 0.2053
pull
Entries 81
Mean 181
Std Dev 0
pull1D
Entries 81
Mean −0.0138
Std Dev 1.008

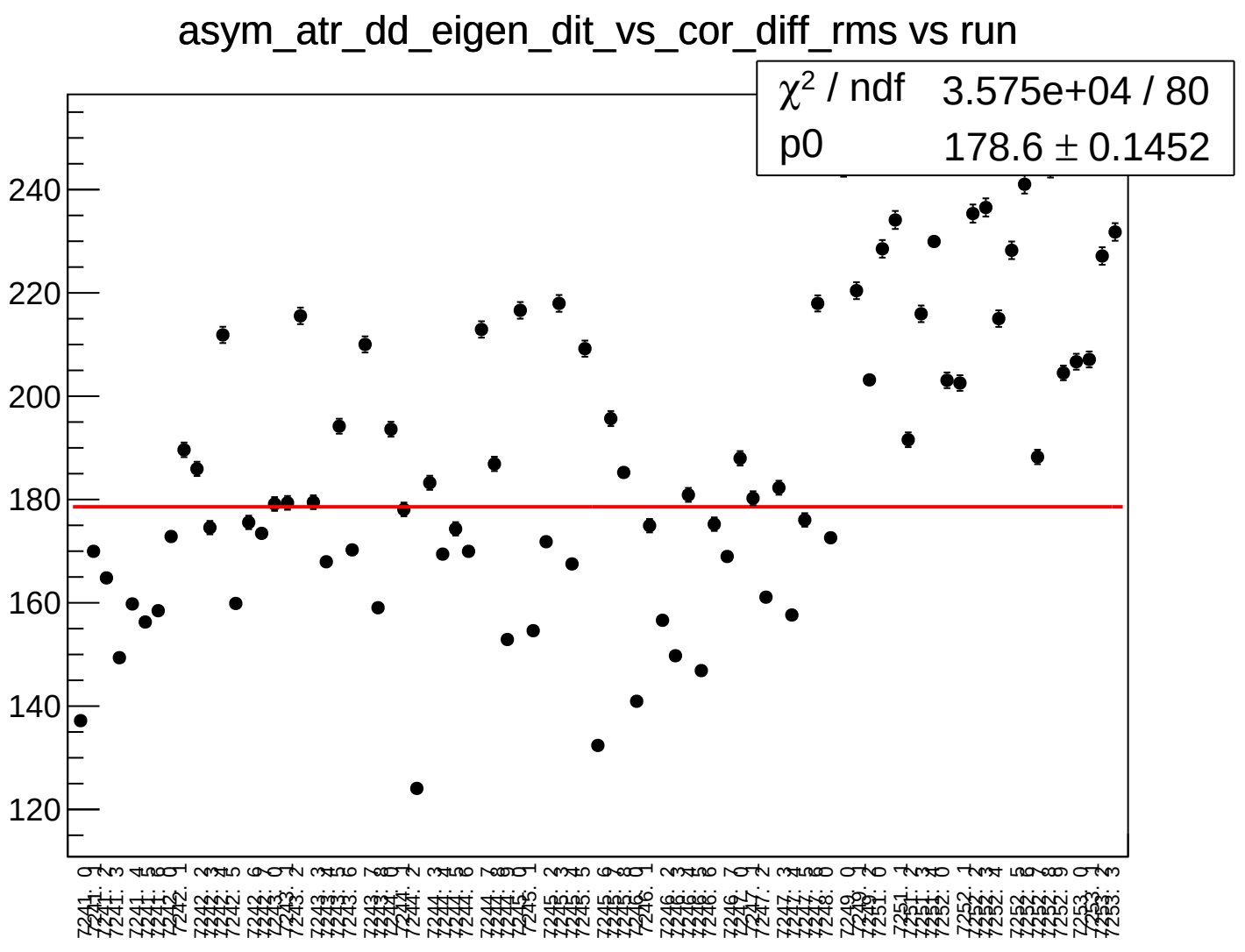

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.575e+04 / 80
p0 178.6 ± 0.1452
240
220
200
180
160
140
120


asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 102.6 / 80
p0 −9.516e−07 ± 1.146e−05
pull
Entries 81
Mean −201.6
Std Dev 0

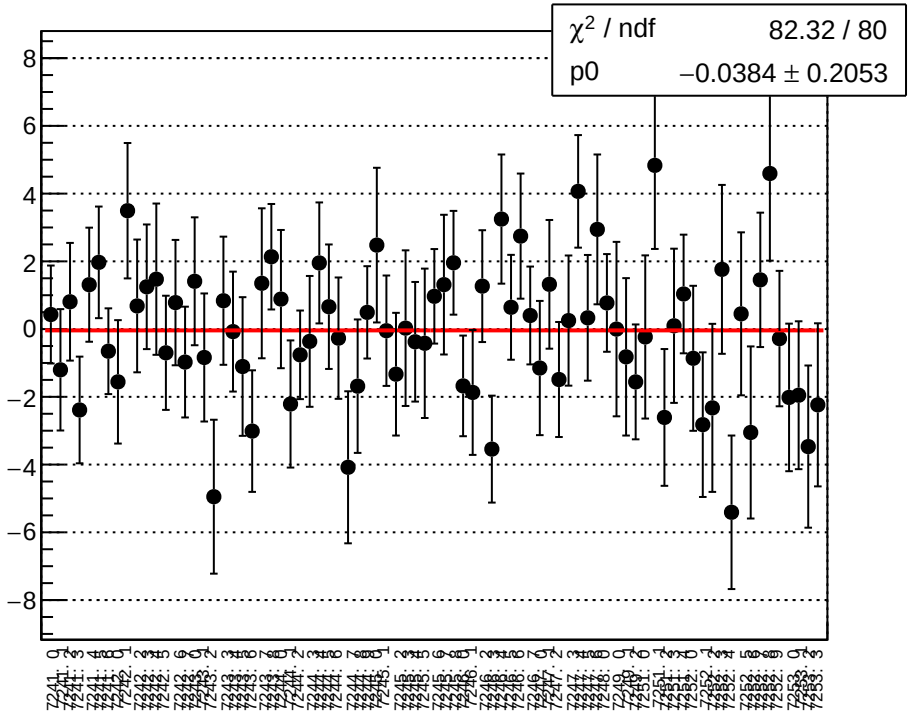

pull1D
Entries 81
Mean −0.01593
Std Dev 1.126

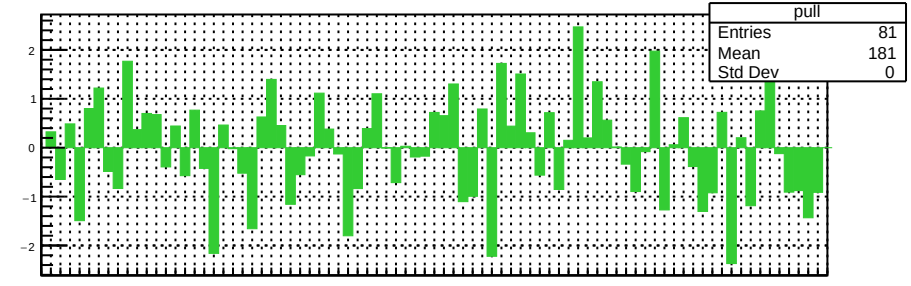

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2755 / 80
p0 0.01007 ± 8.1e−06
0.011
0.0105
0.01
0.0095
0.009

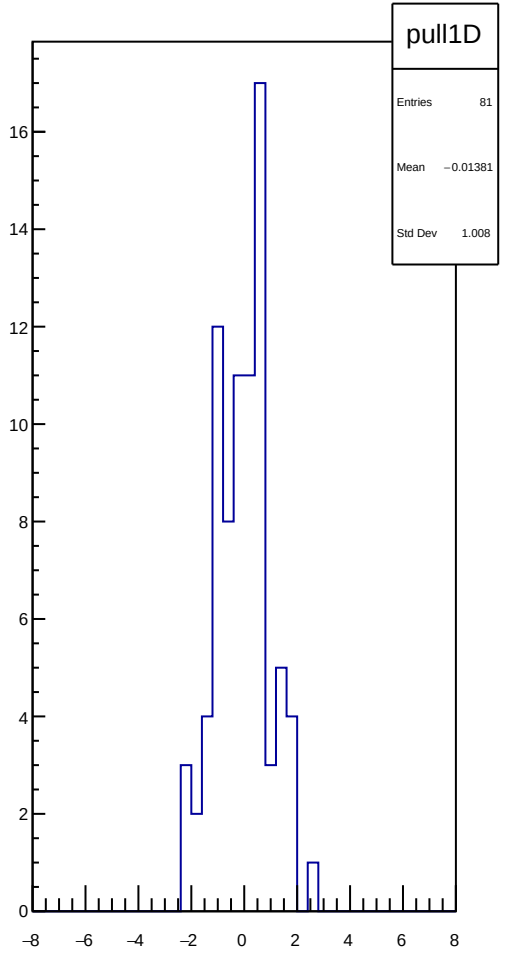

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.32 / 80
p0 −0.0384 ± 0.2053
pull
Entries 81
Mean 181
Std Dev 0
pull1D
Entries 81
Mean −0.01381
Std Dev 1.008

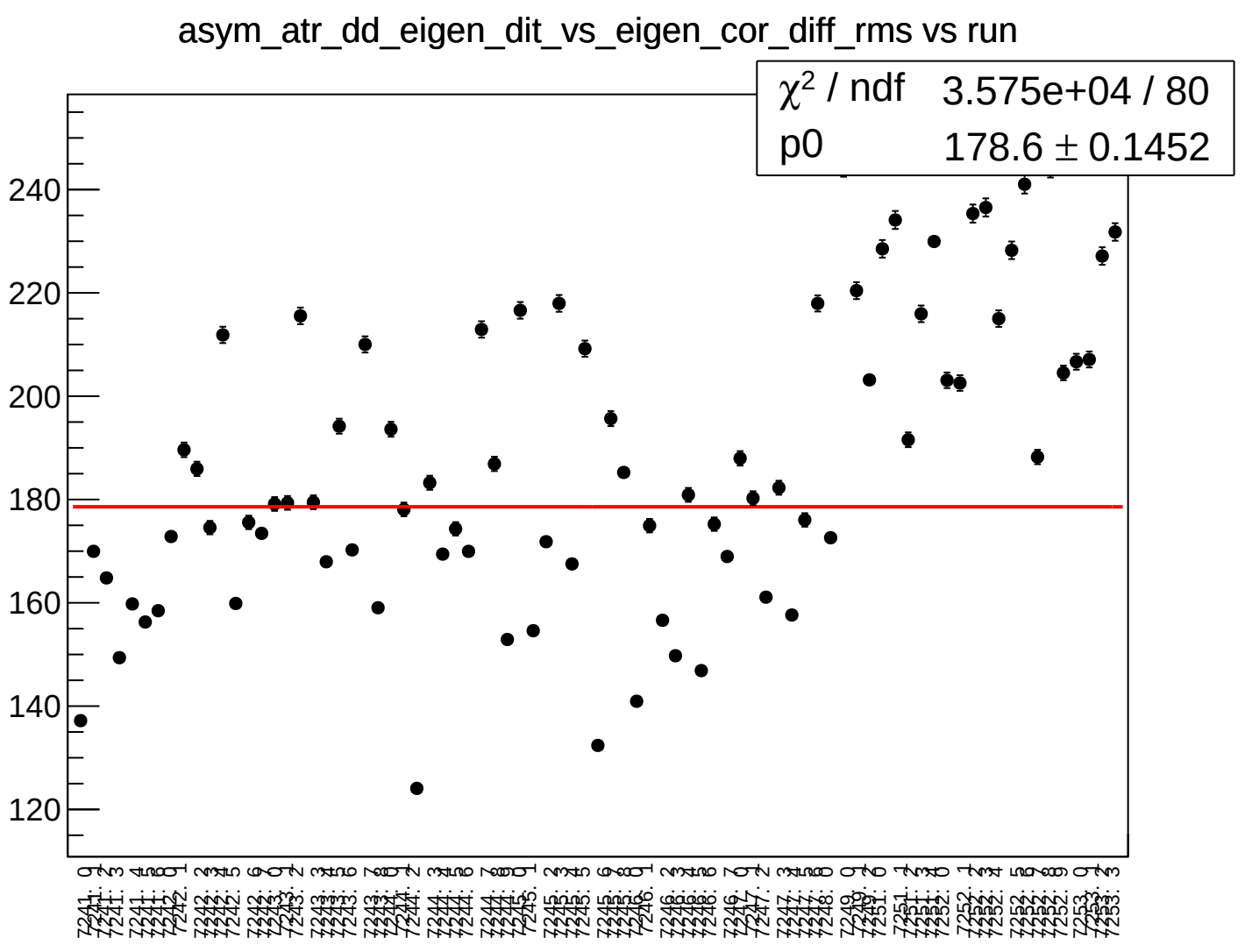

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.575e+04 / 80
p0 178.6 ± 0.1452
240
220
200
180
160
140
120

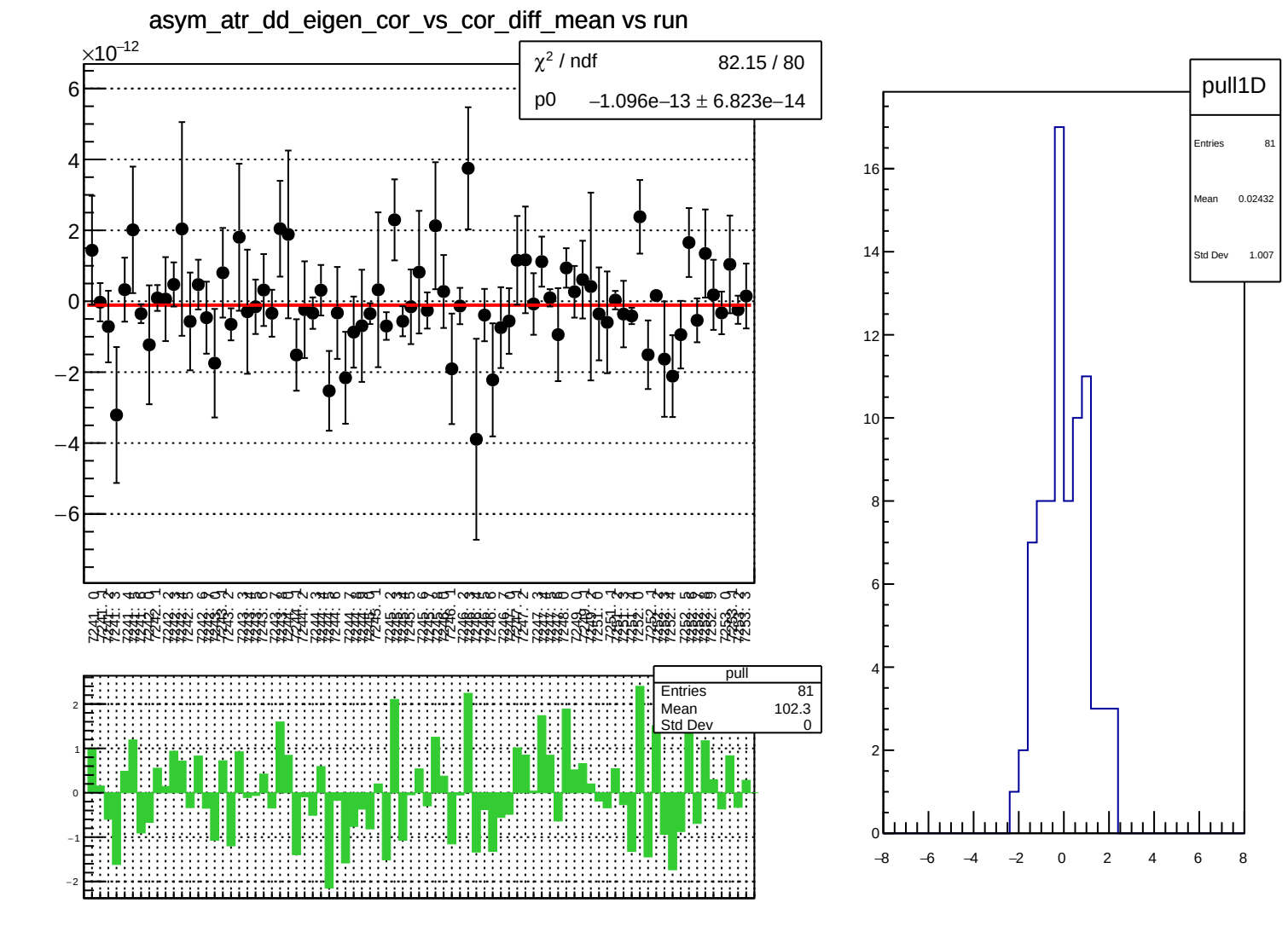
asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

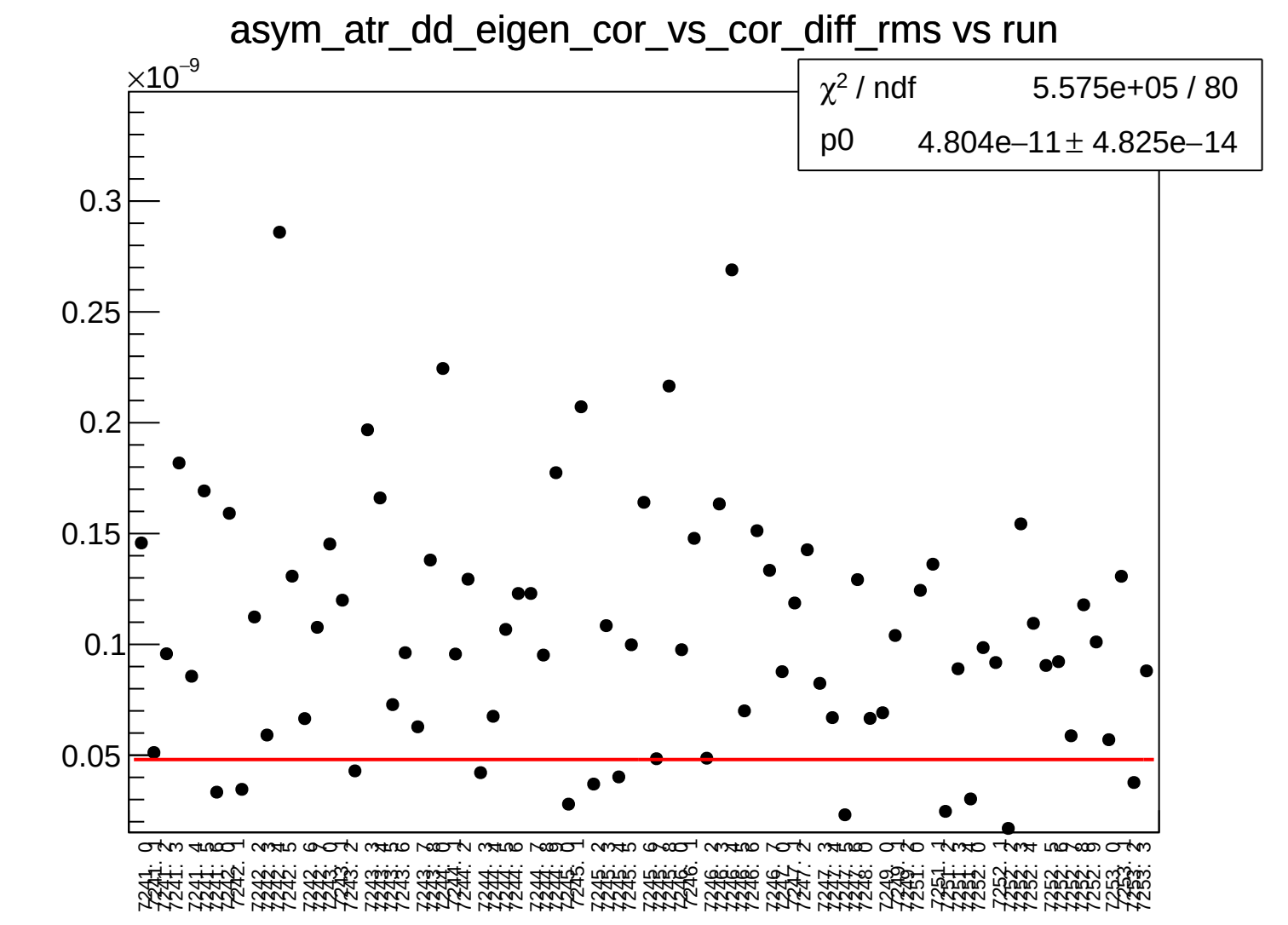


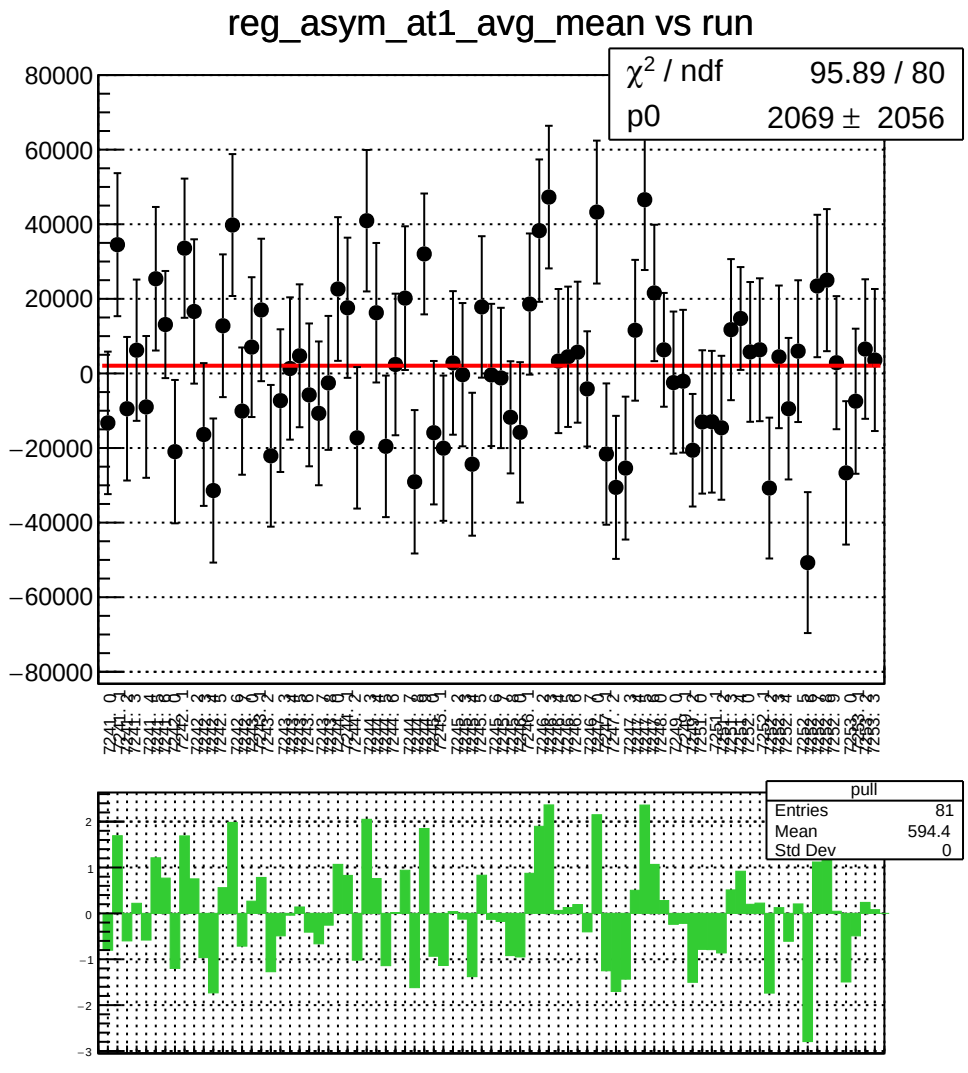


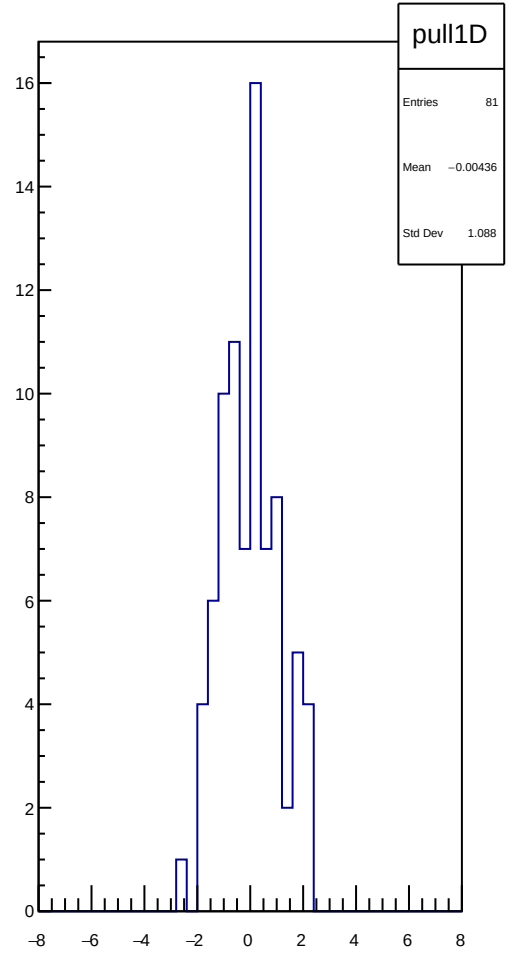


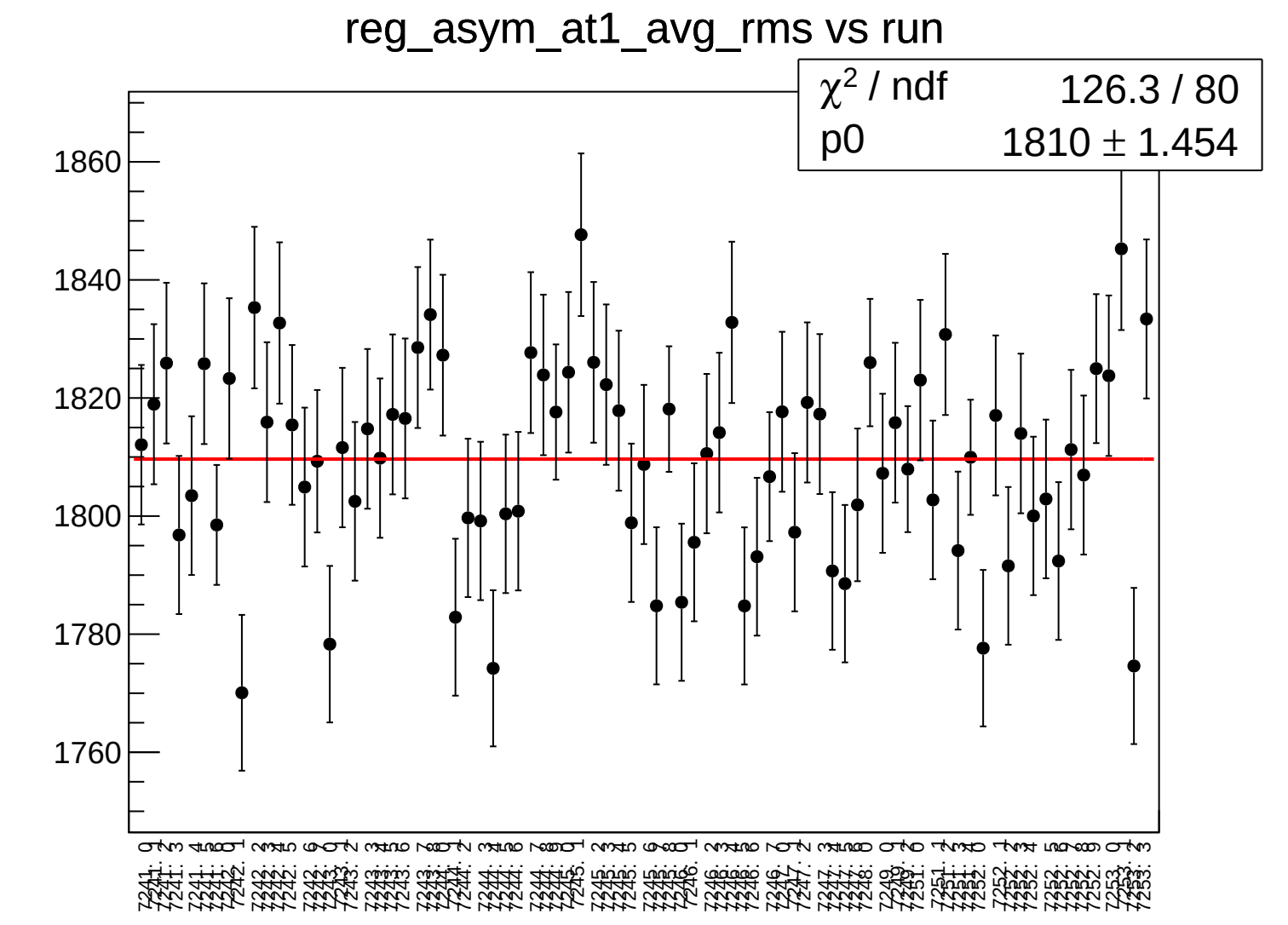

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.575e+04 / 80
p0 178.6 ± 0.1452
240
220
200
180
160
140
120

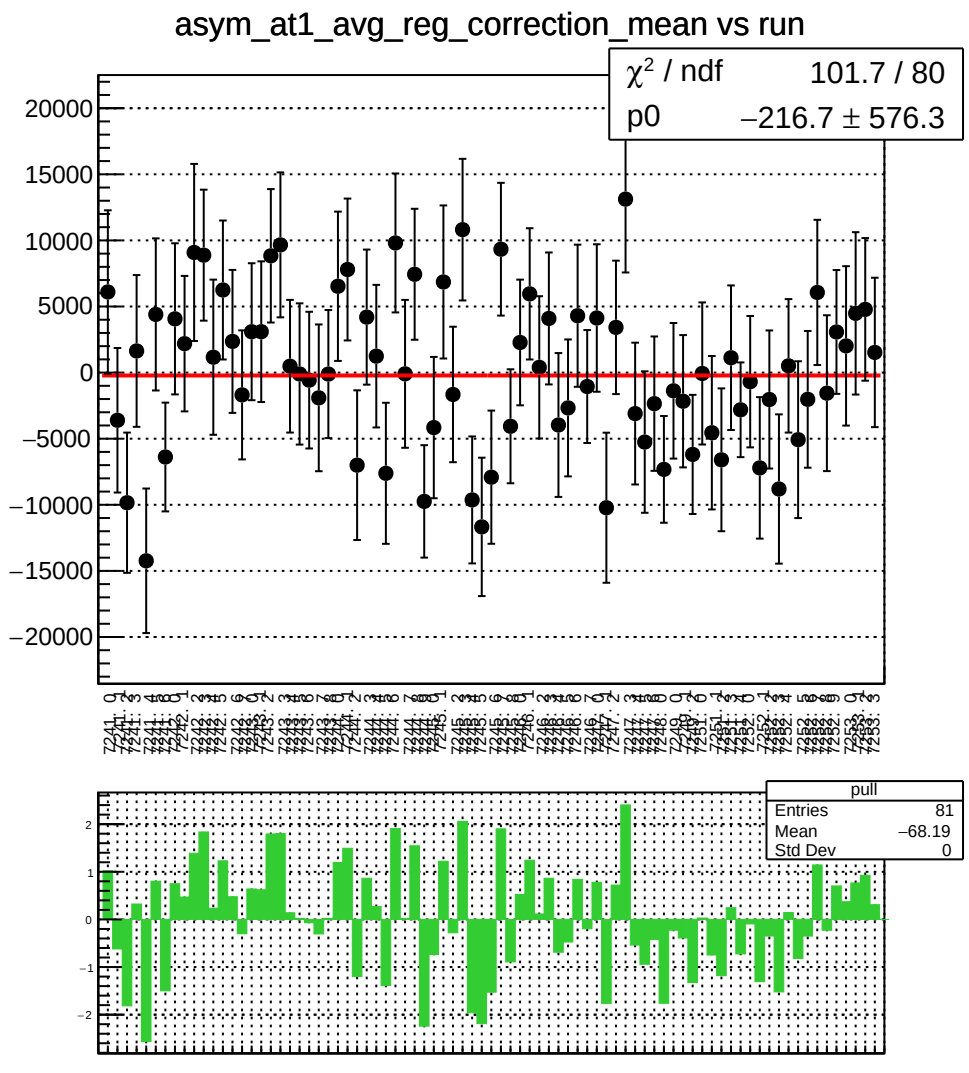

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.15 / 80
p0 −1.096e−13 ± 6.823e−14
pull
Entries 81
Mean 102.3
Std Dev 0
pull1D
Entries 81
Mean 0.02432
Std Dev 1.007

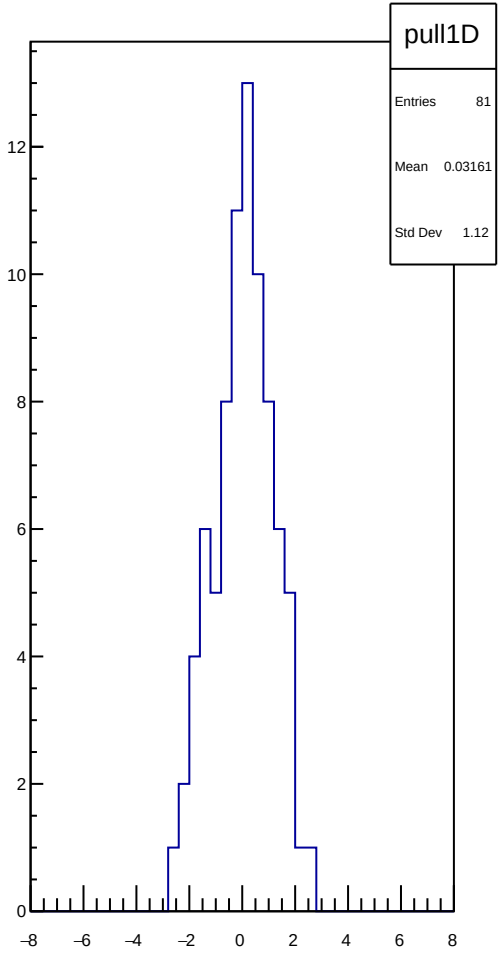

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.575e+05 / 80
p0 4.804e−11 ± 4.825e−14
0.3
0.25
0.2
0.15
0.1
0.05

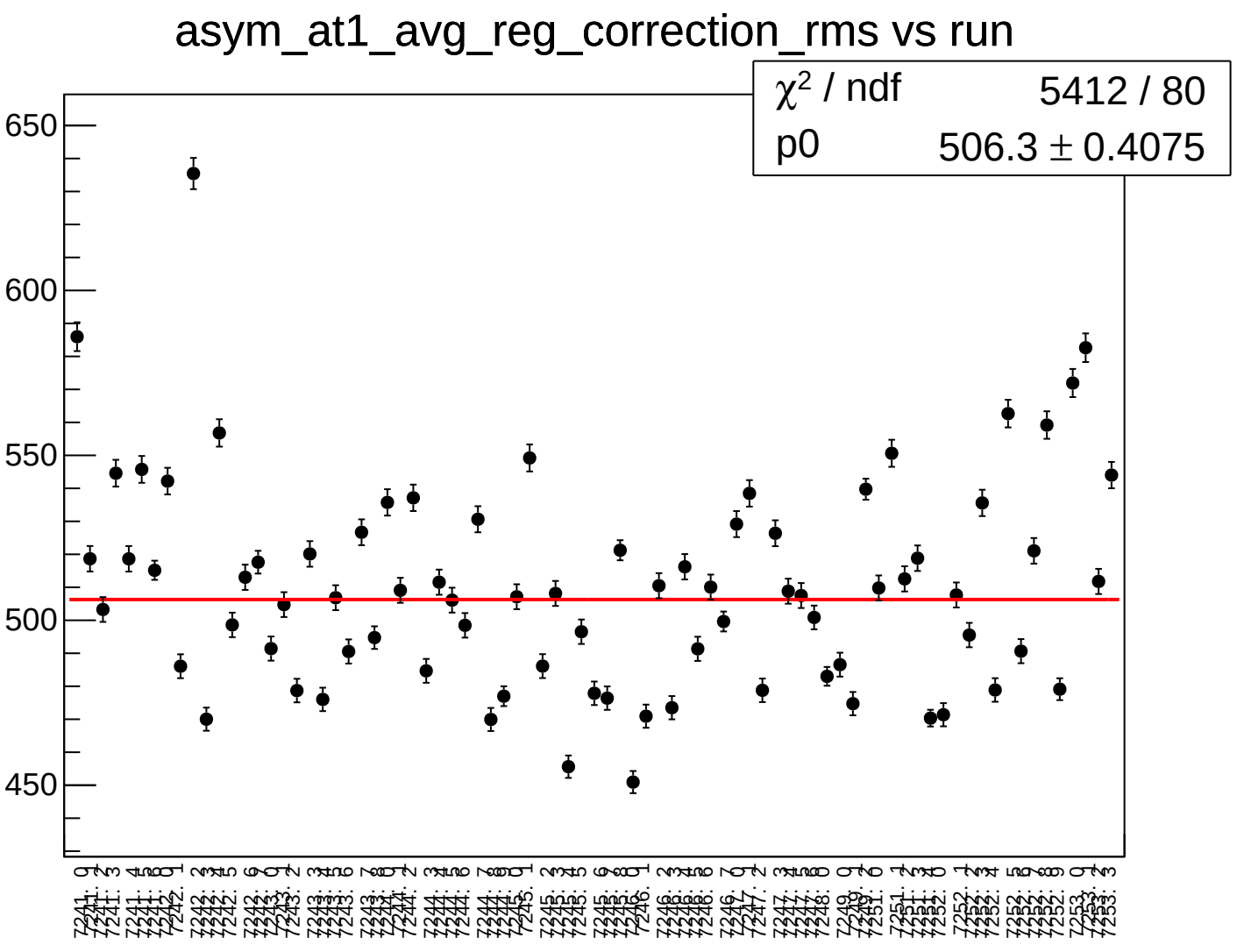

reg_asym_at1_avg_mean vs run
χ² / ndf 95.89 / 80
p0 2069 ± 2056
pull
Entries 81
Mean 594.4
Std Dev 0

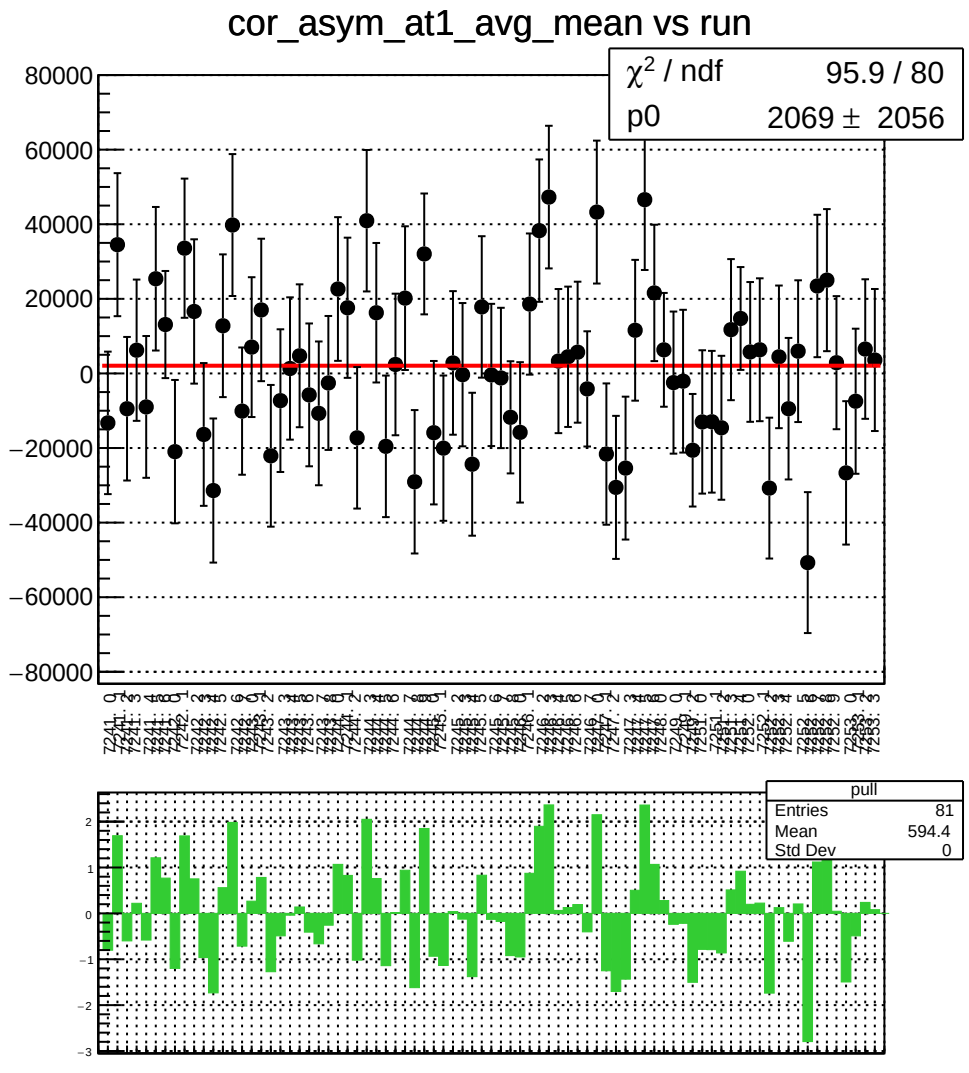

pull1D
Entries 81
Mean −0.00436
Std Dev 1.088

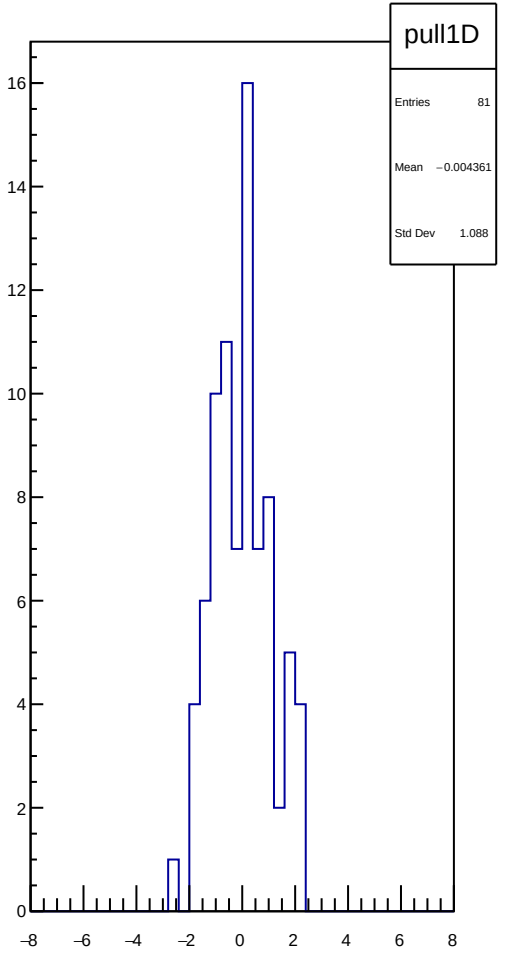

reg_asym_at1_avg_rms vs run
χ² / ndf 126.3 / 80
p0 1810 ± 1.454
1860
1840
1820
1800
1780
1760

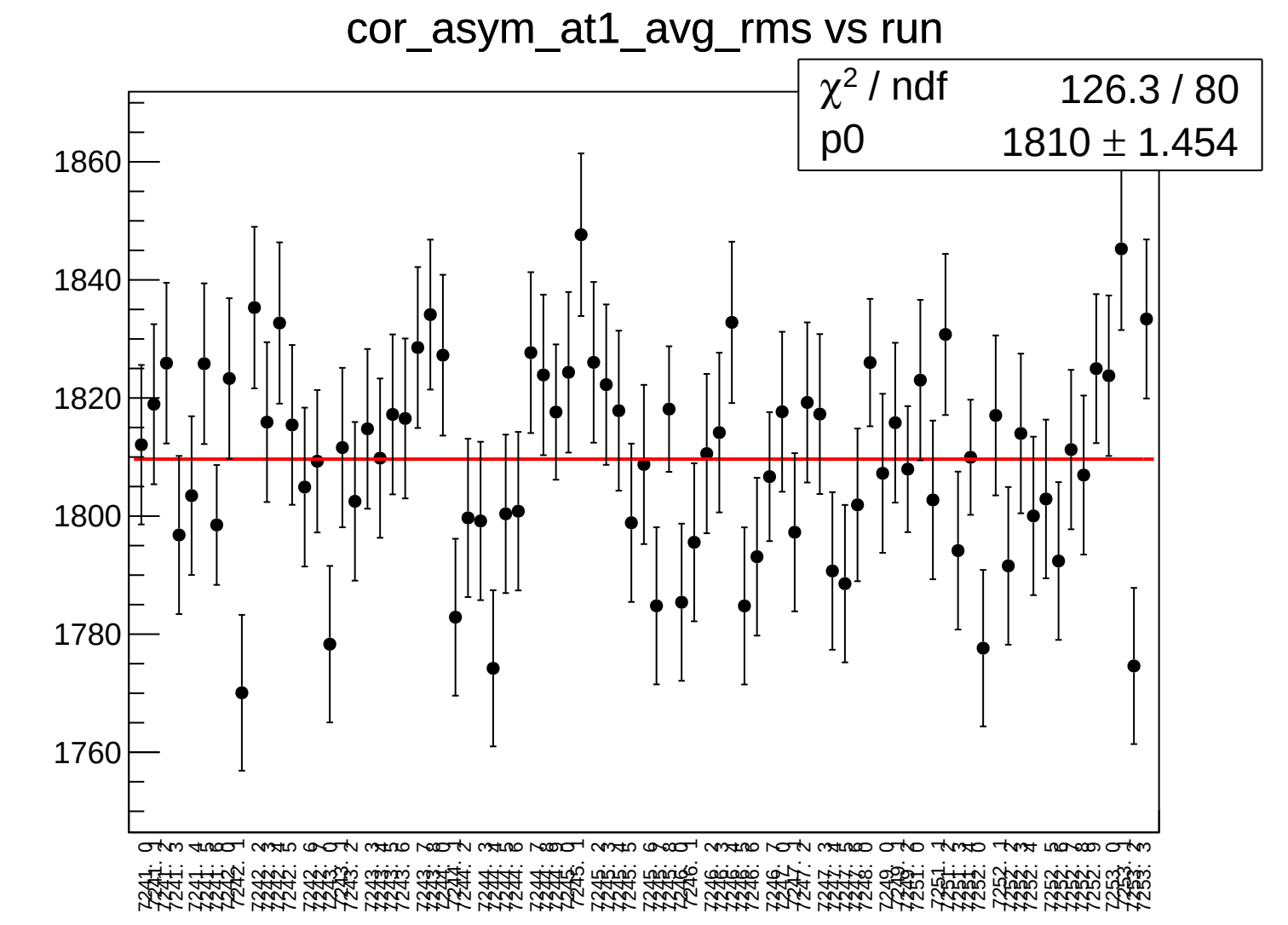

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 101.7 / 80
p0 −216.7 ± 576.3
pull
Entries 81
Mean −68.19
Std Dev 0

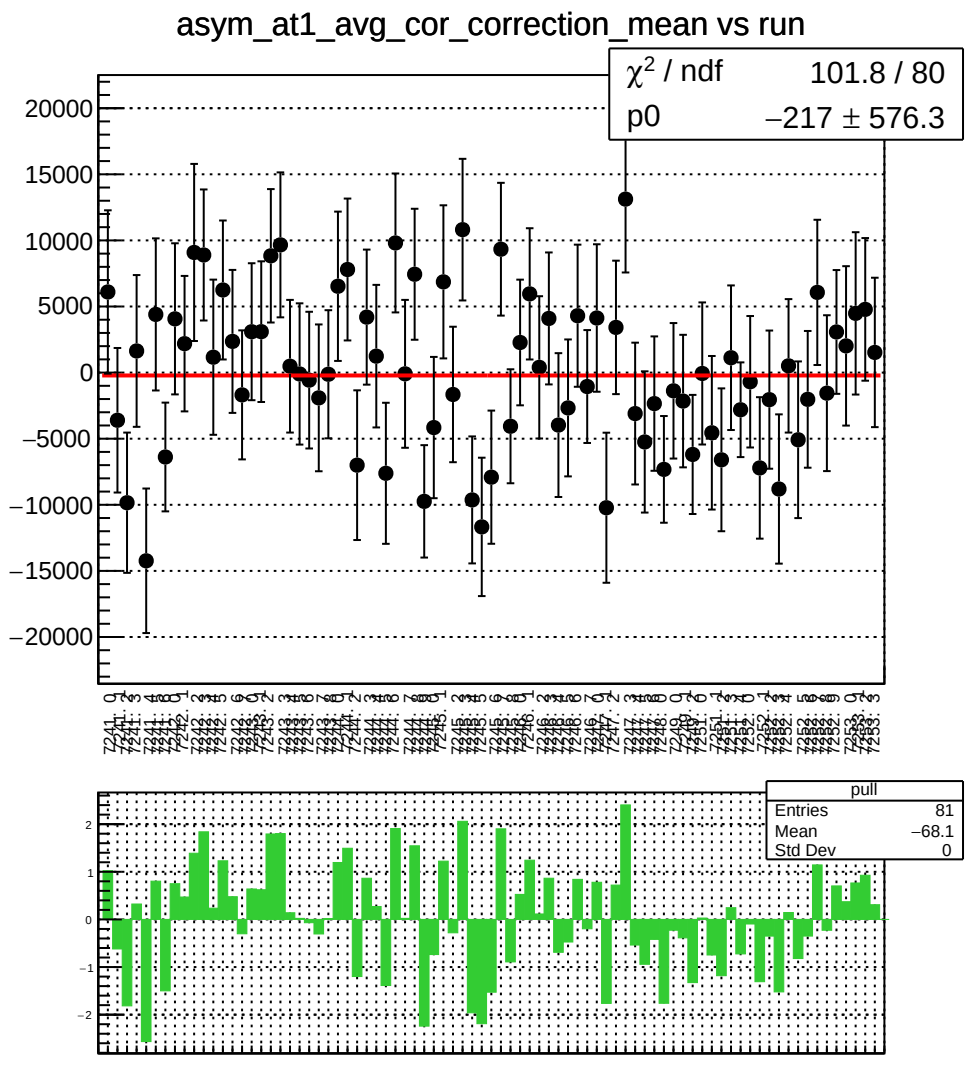

pull1D
Entries 81
Mean 0.03161
Std Dev 1.12

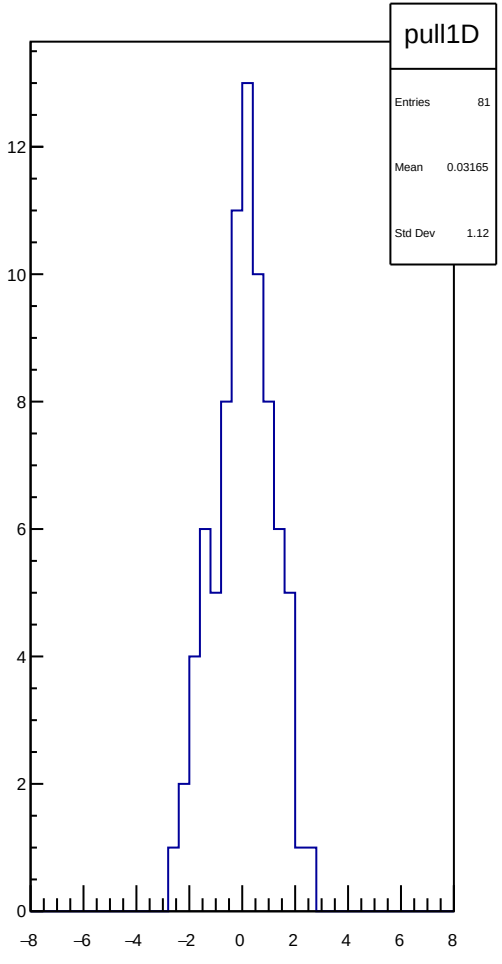

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 5412 / 80
p0 506.3 ± 0.4075
650
600
550
500
450

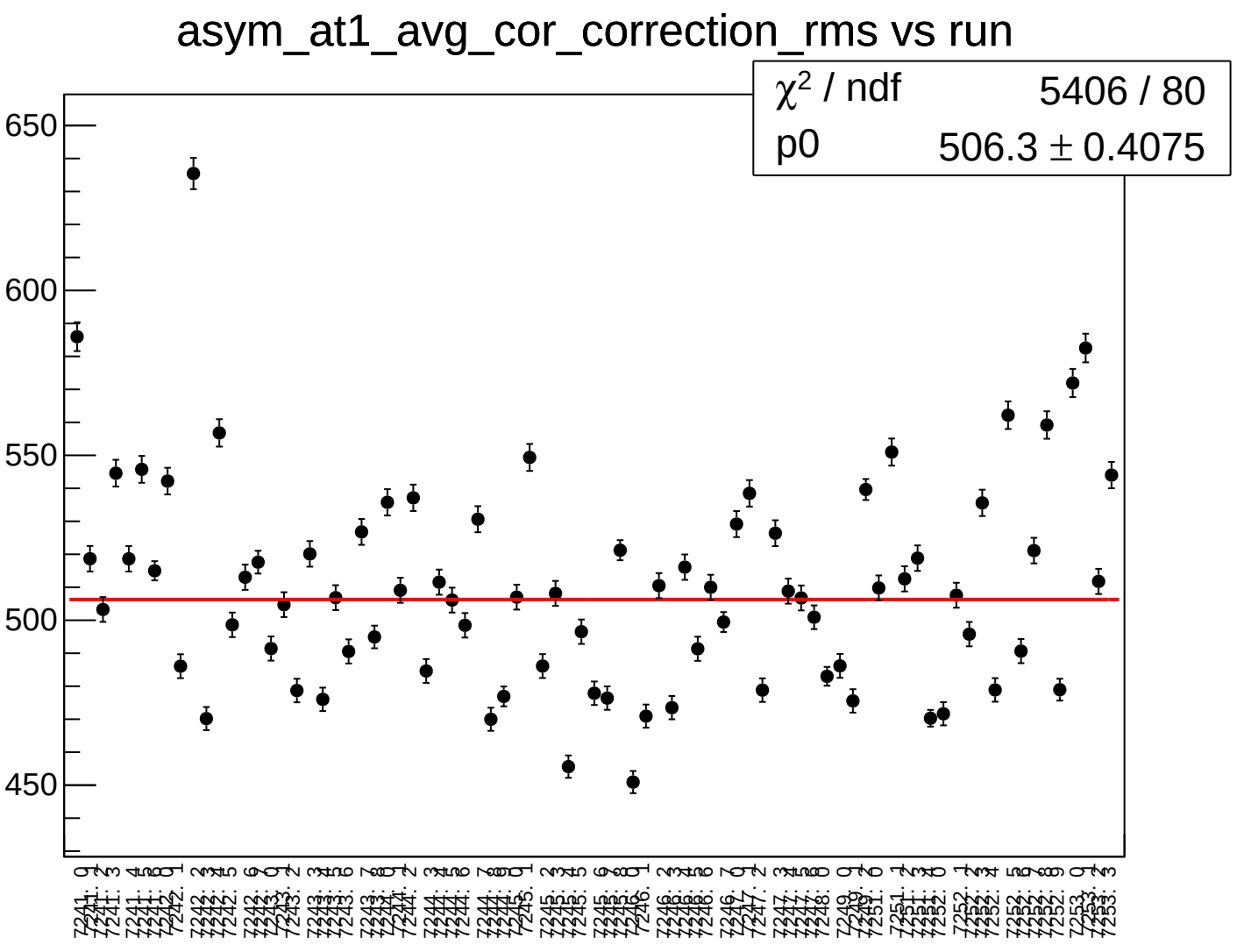

cor_asym_at1_avg_mean vs run
χ² / ndf 95.9 / 80
p0 2069 ± 2056
pull
Entries 81
Mean 594.4
Std Dev 0

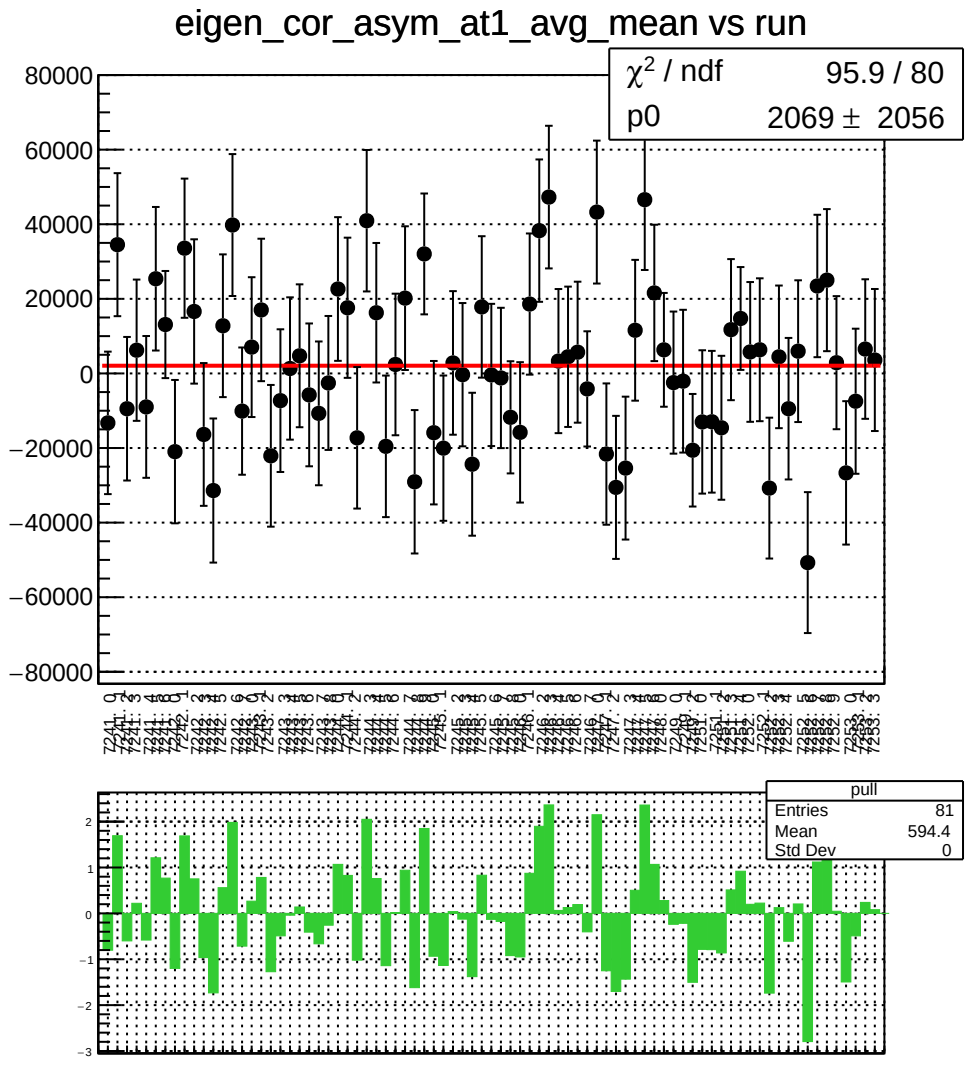

pull1D
Entries 81
Mean −0.004361
Std Dev 1.088

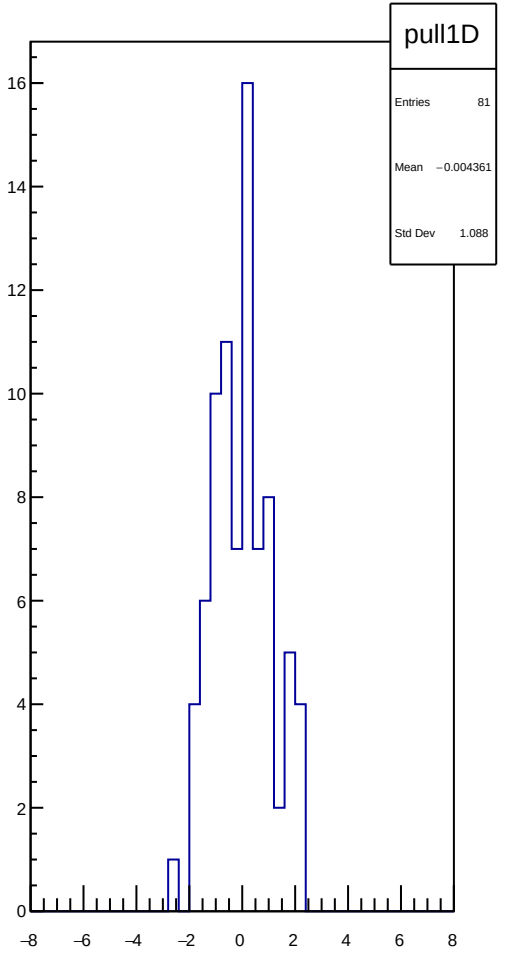

cor_asym_at1_avg_rms vs run
χ^2 / ndf 126.3 / 80
p0 1810 ± 1.454
1860
1840
1820
1800
1780
1760

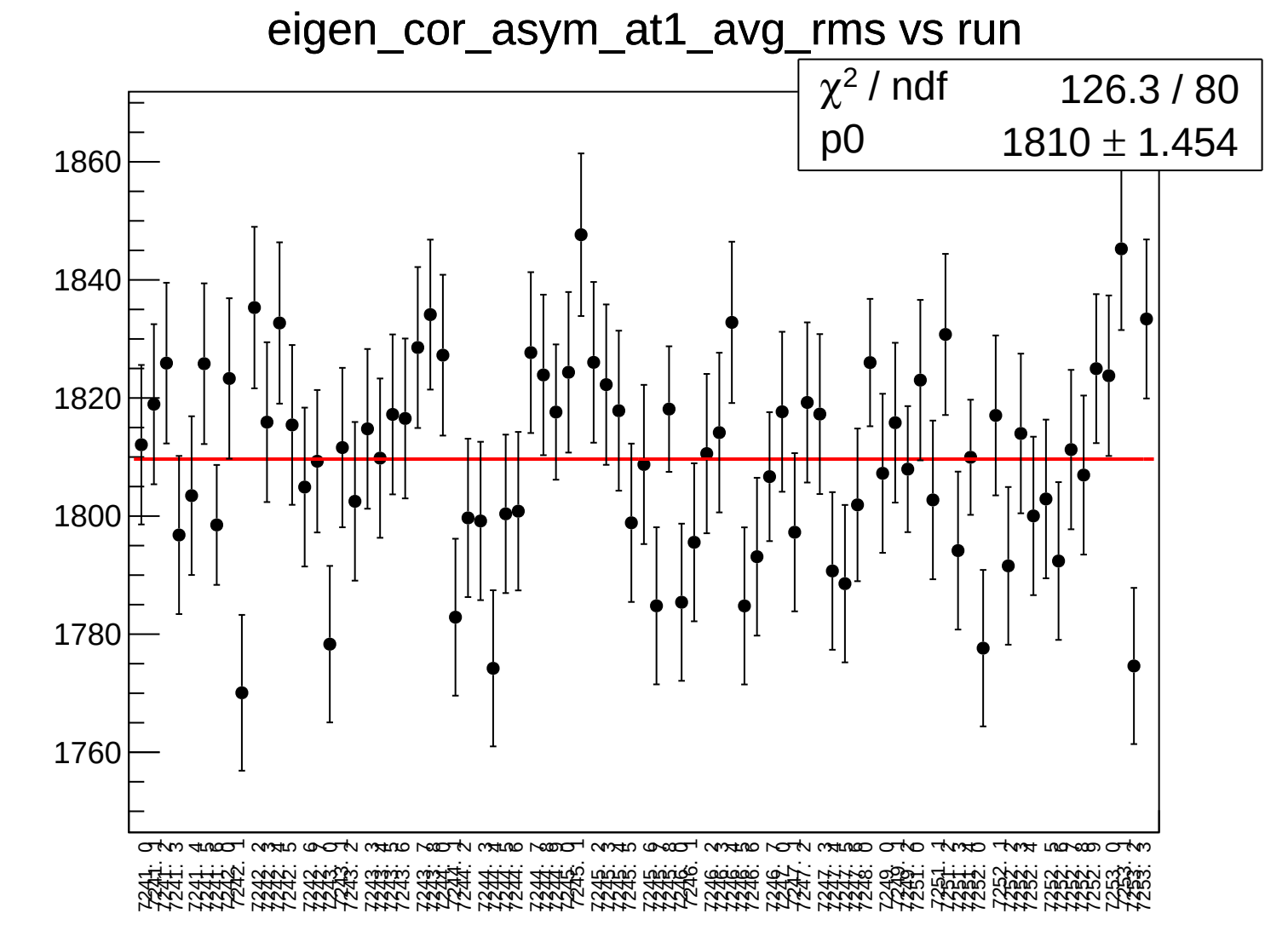

asym_at1_avg_cor_correction_mean vs run
χ² / ndf 101.8 / 80
p0 −217 ± 576.3
pull
Entries 81
Mean −68.1
Std Dev 0

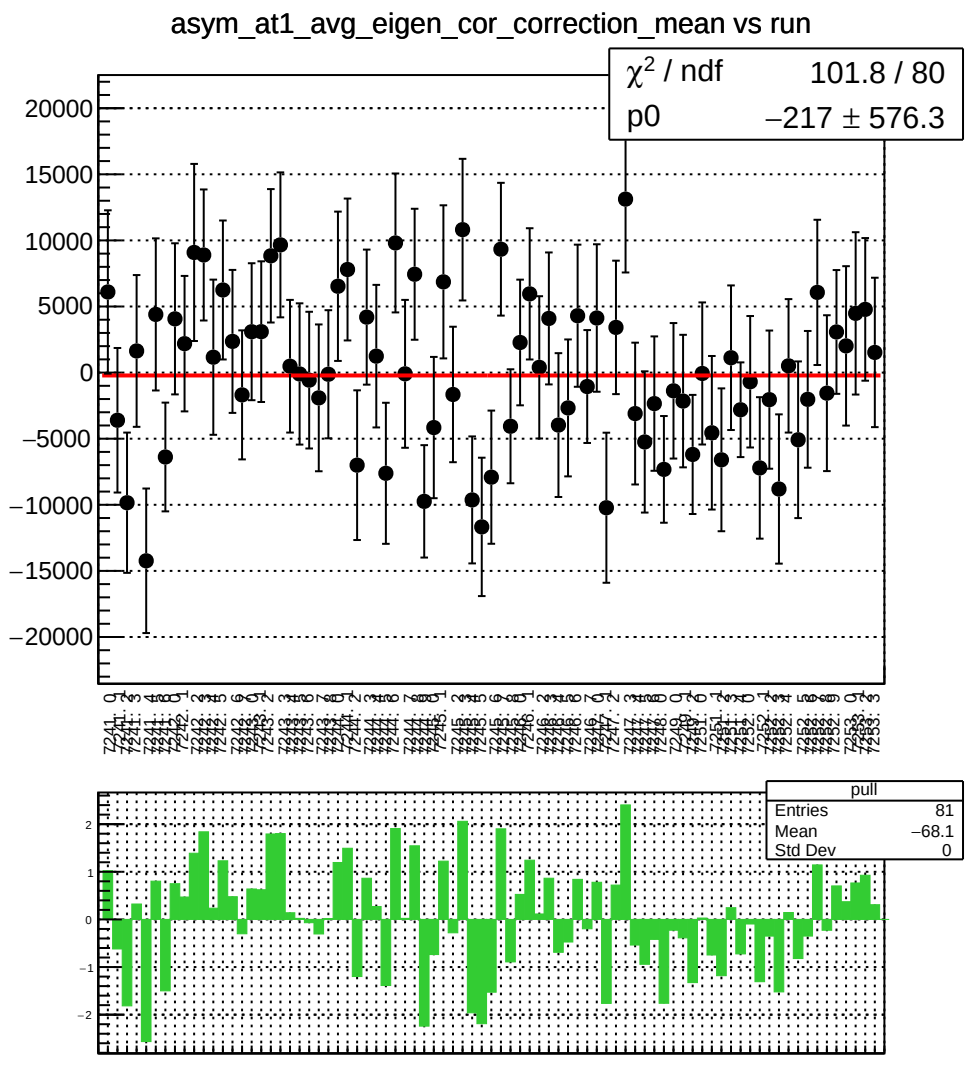

pull1D
Entries 81
Mean 0.03165
Std Dev 1.12

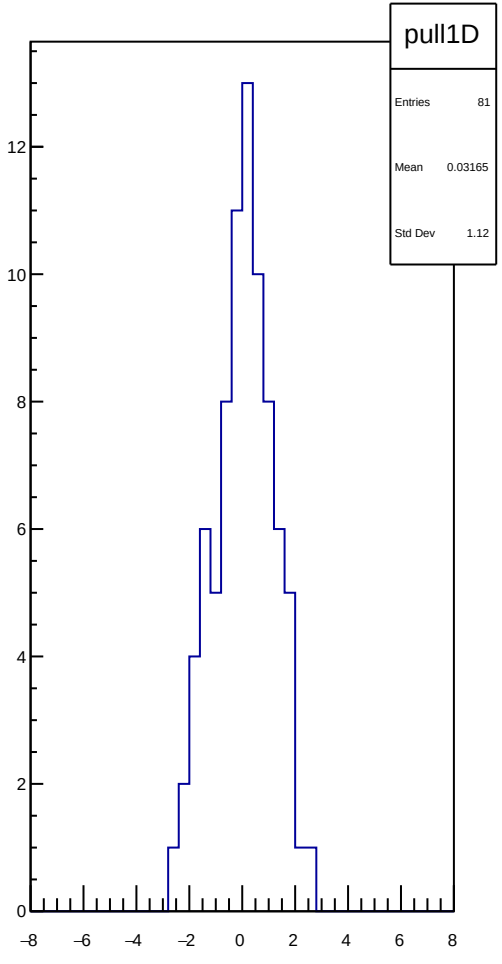

asym_at1_avg_cor_correction_rms vs run
χ² / ndf 5406 / 80
p0 506.3 ± 0.4075
650
600
550
500
450

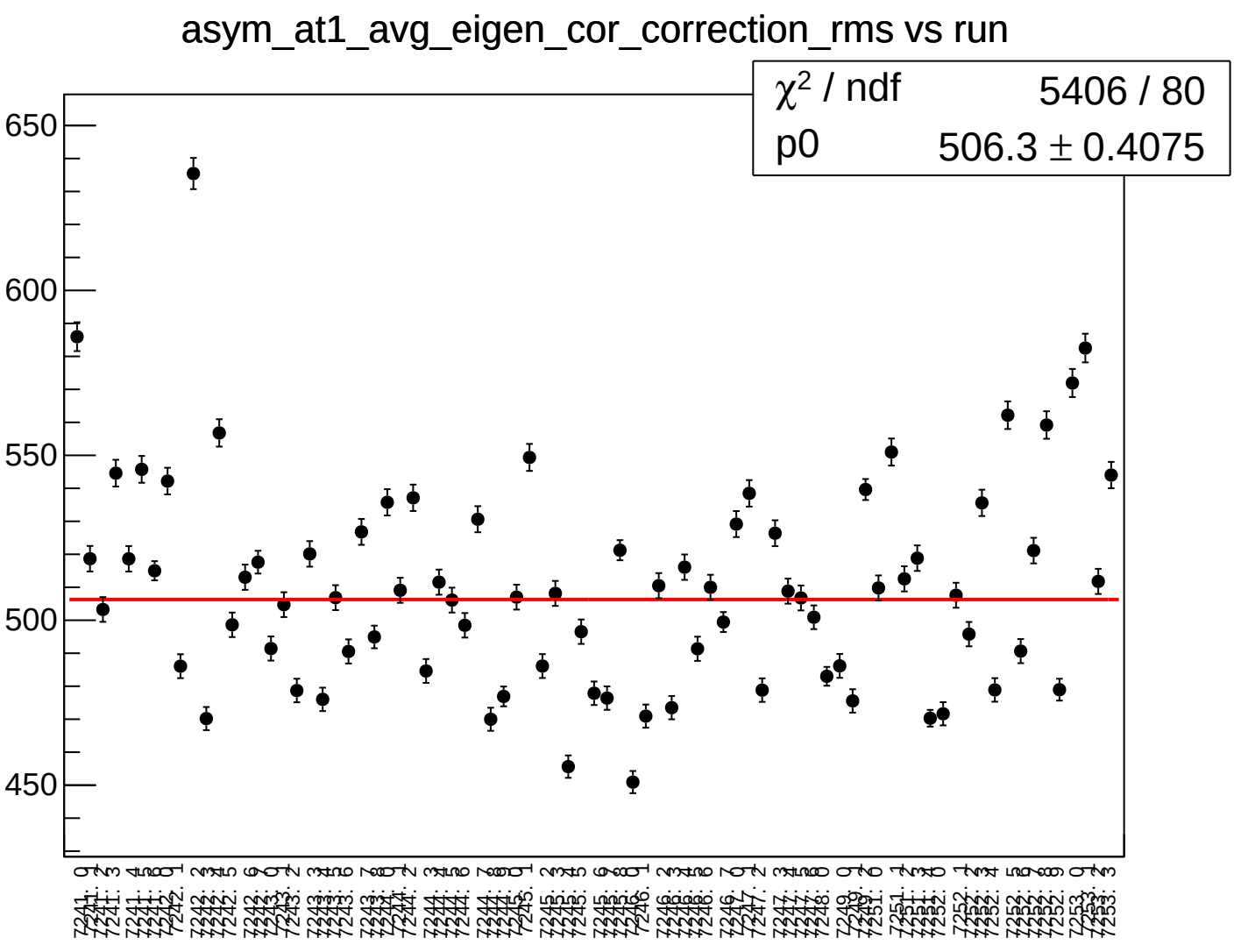

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 95.9 / 80
p0 2069 ± 2056
pull
Entries 81
Mean 594.4
Std Dev 0

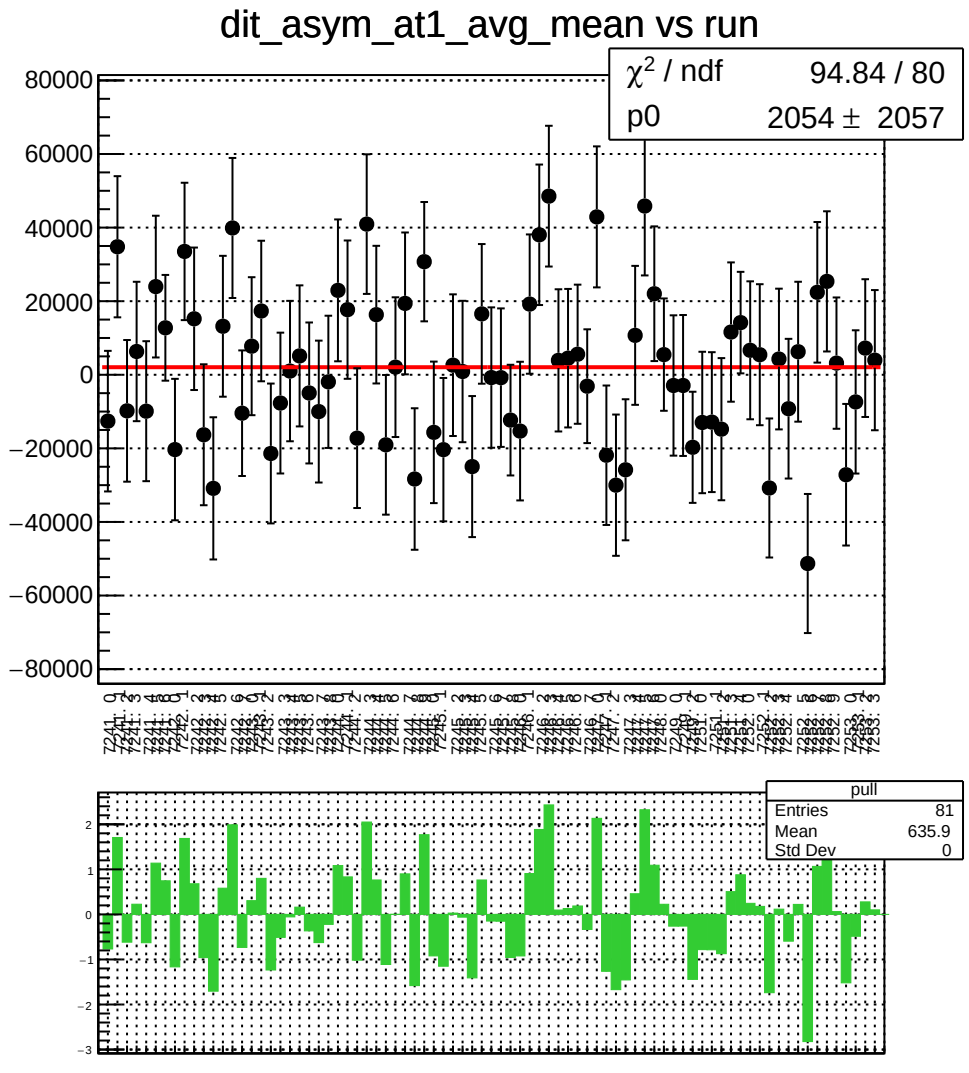

pull1D
Entries 81
Mean −0.004361
Std Dev 1.088

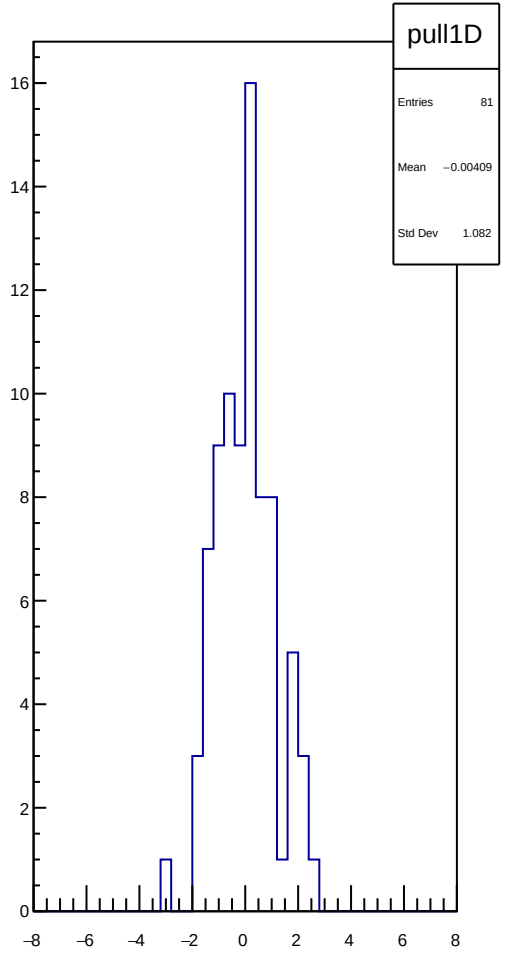

eigen_cor_asym_at1_avg_rms vs run
χ² / ndf 126.3 / 80
p0 1810 ± 1.454
1860
1840
1820
1800
1780
1760

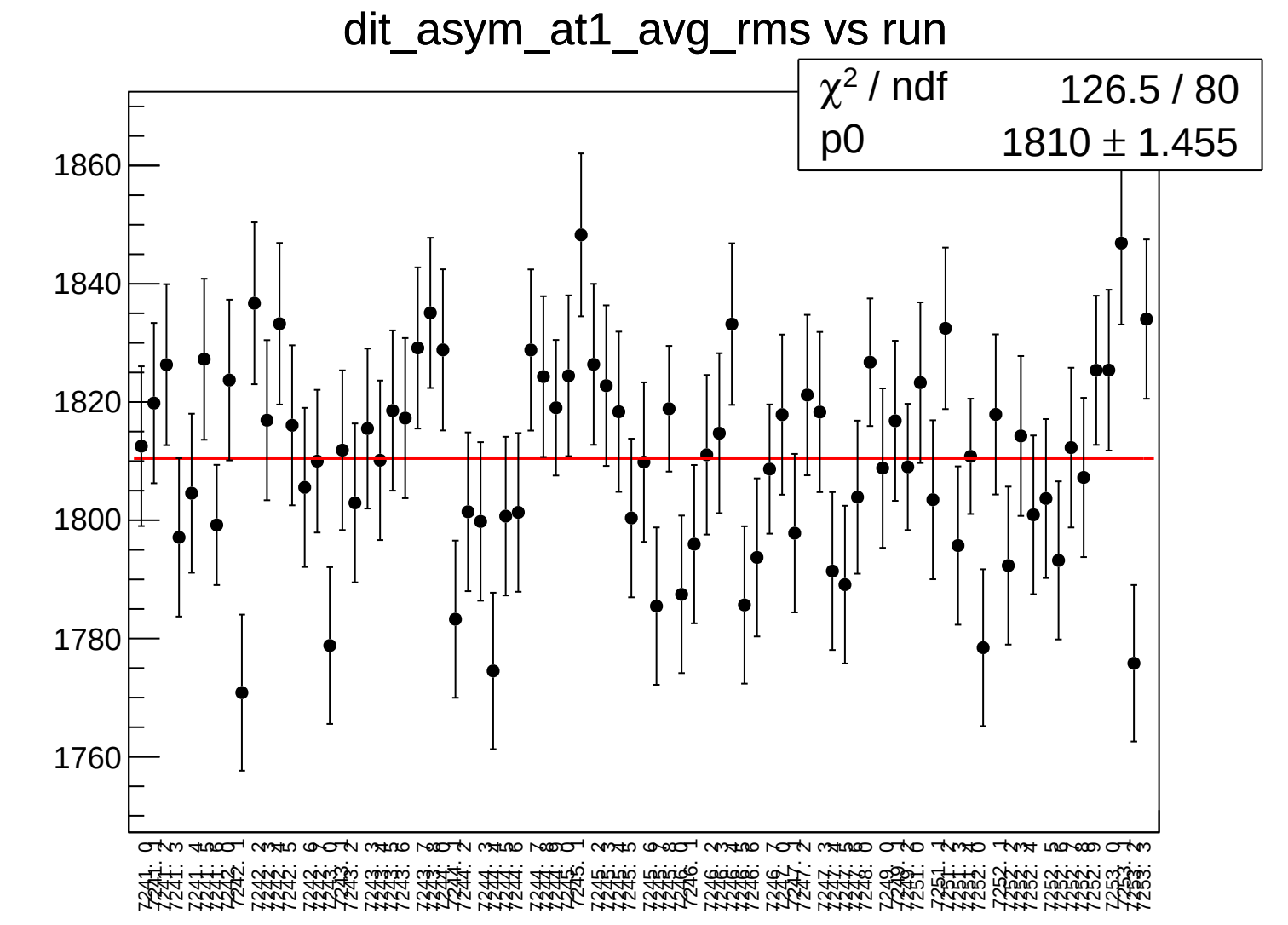

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 101.8 / 80
p0 −217 ± 576.3
pull
Entries 81
Mean −68.1
Std Dev 0

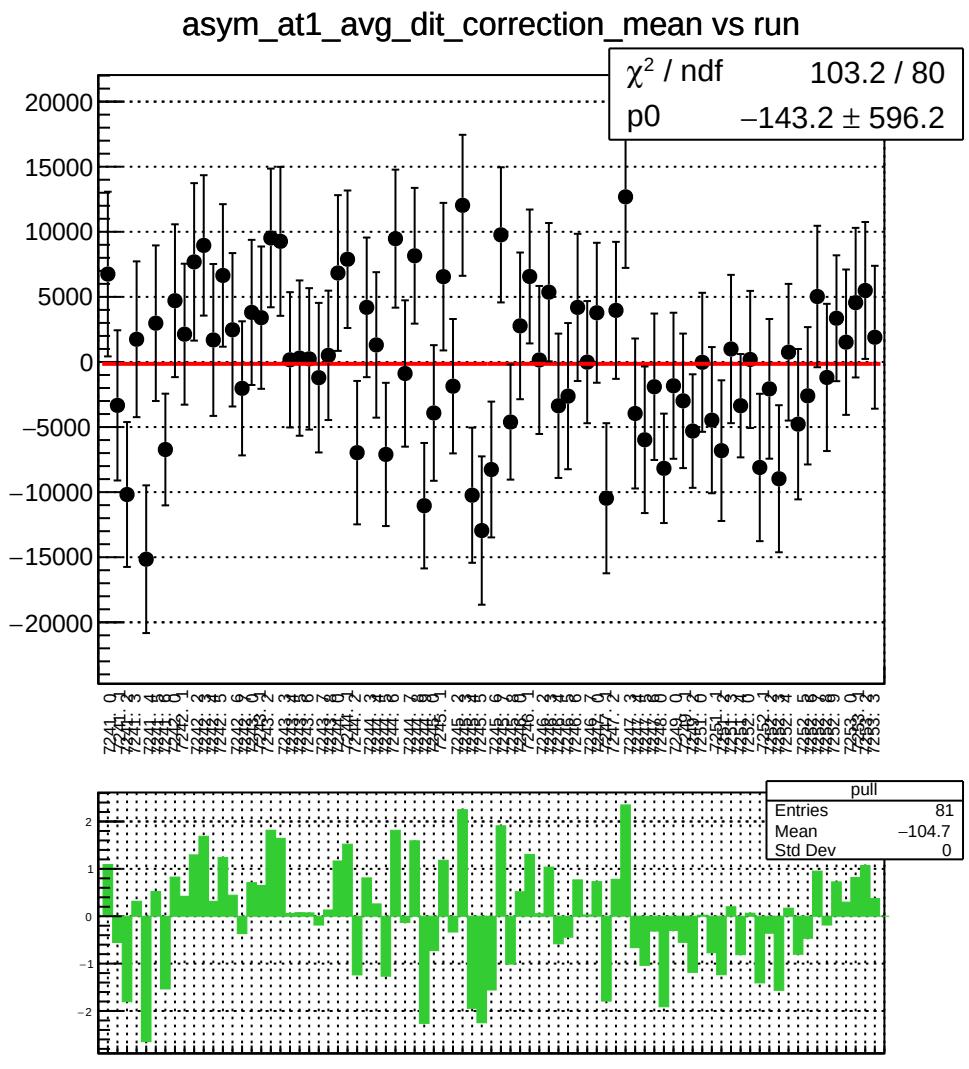

pull1D
Entries 81
Mean 0.03165
Std Dev 1.12

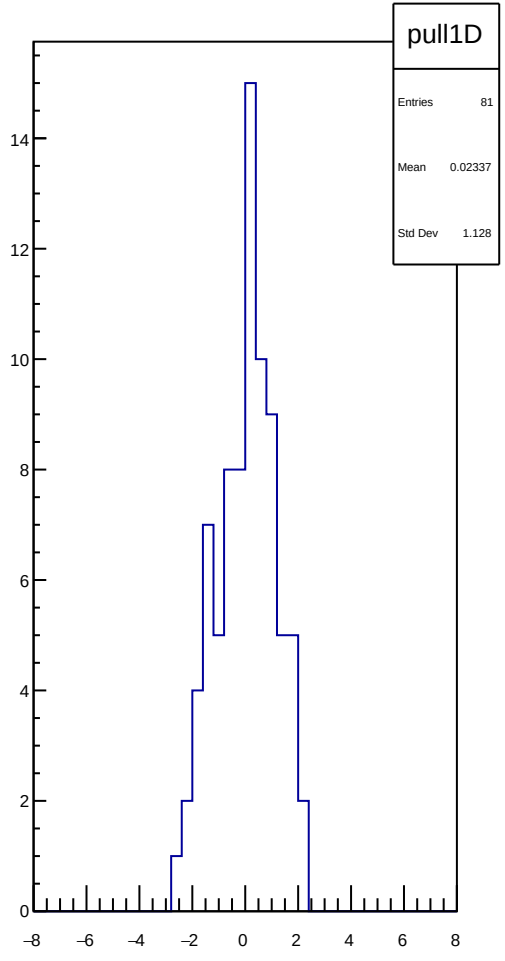

asym_at1_avg_eigen_cor_correction_rms vs run
χ² / ndf 5406 / 80
p0 506.3 ± 0.4075
650
600
550
500
450

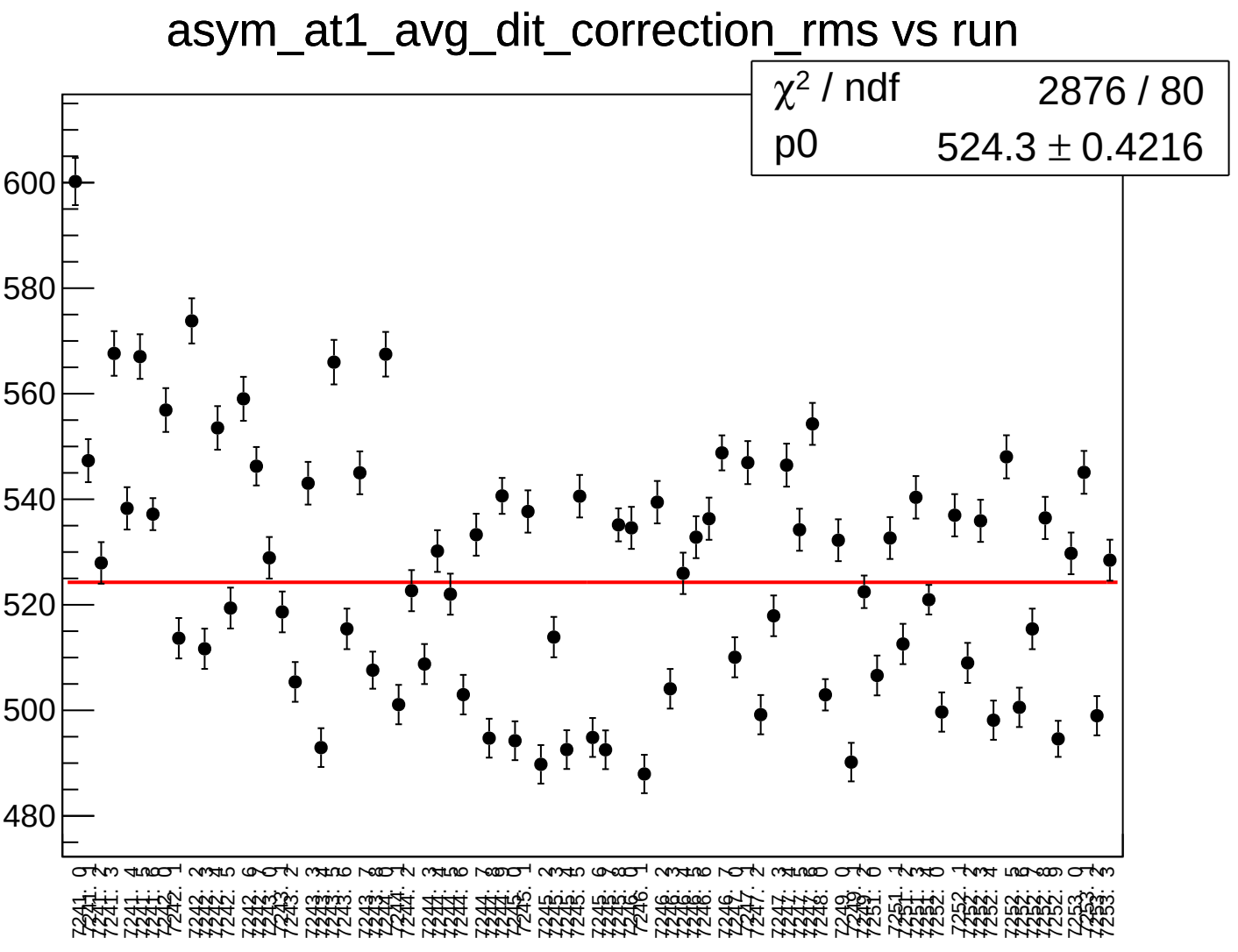

dit_asym_at1_avg_mean vs run
χ² / ndf 94.84 / 80
p0 2054 ± 2057
pull
Entries 81
Mean 635.9
Std Dev 0

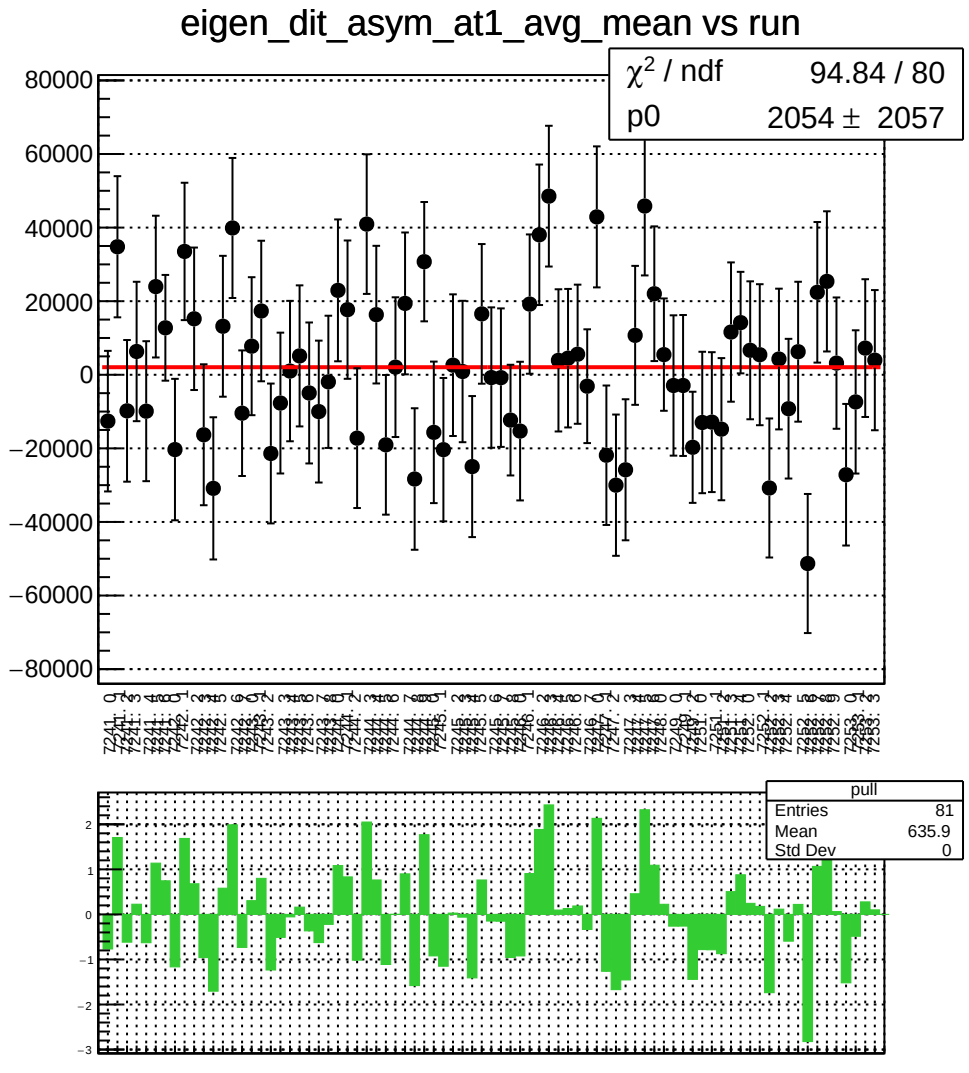

pull1D
Entries 81
Mean −0.00409
Std Dev 1.082

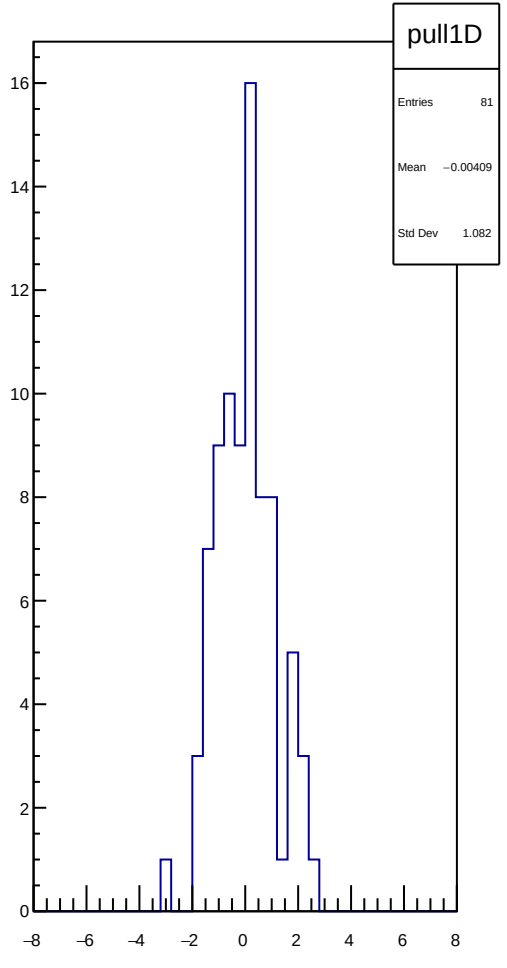

dit_asym_at1_avg_rms vs run
χ² / ndf 126.5 / 80
p0 1810 ± 1.455
1860
1840
1820
1800
1780
1760

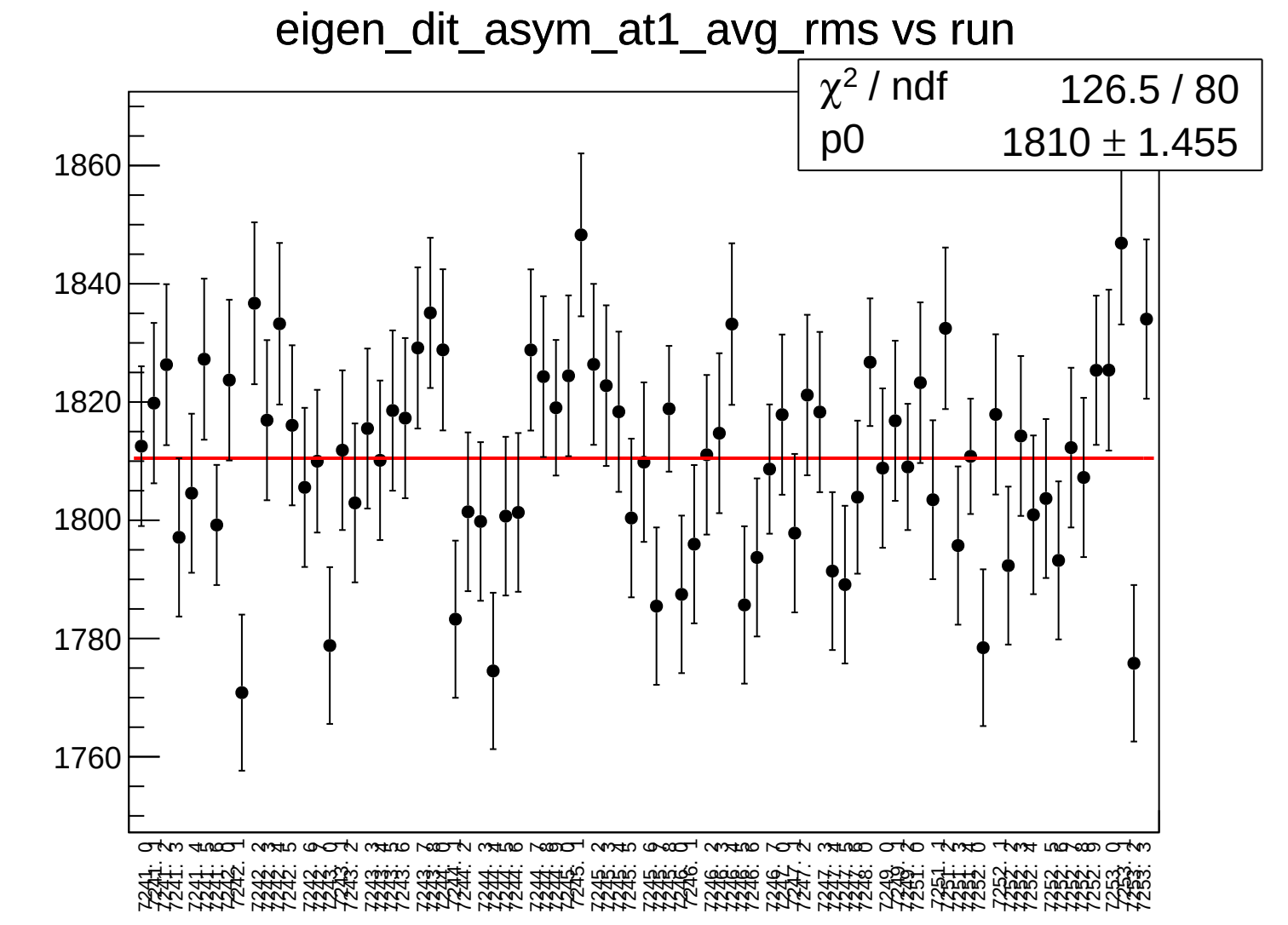

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 103.2 / 80
p0 −143.2 ± 596.2
pull
Entries 81
Mean −104.7
Std Dev 0

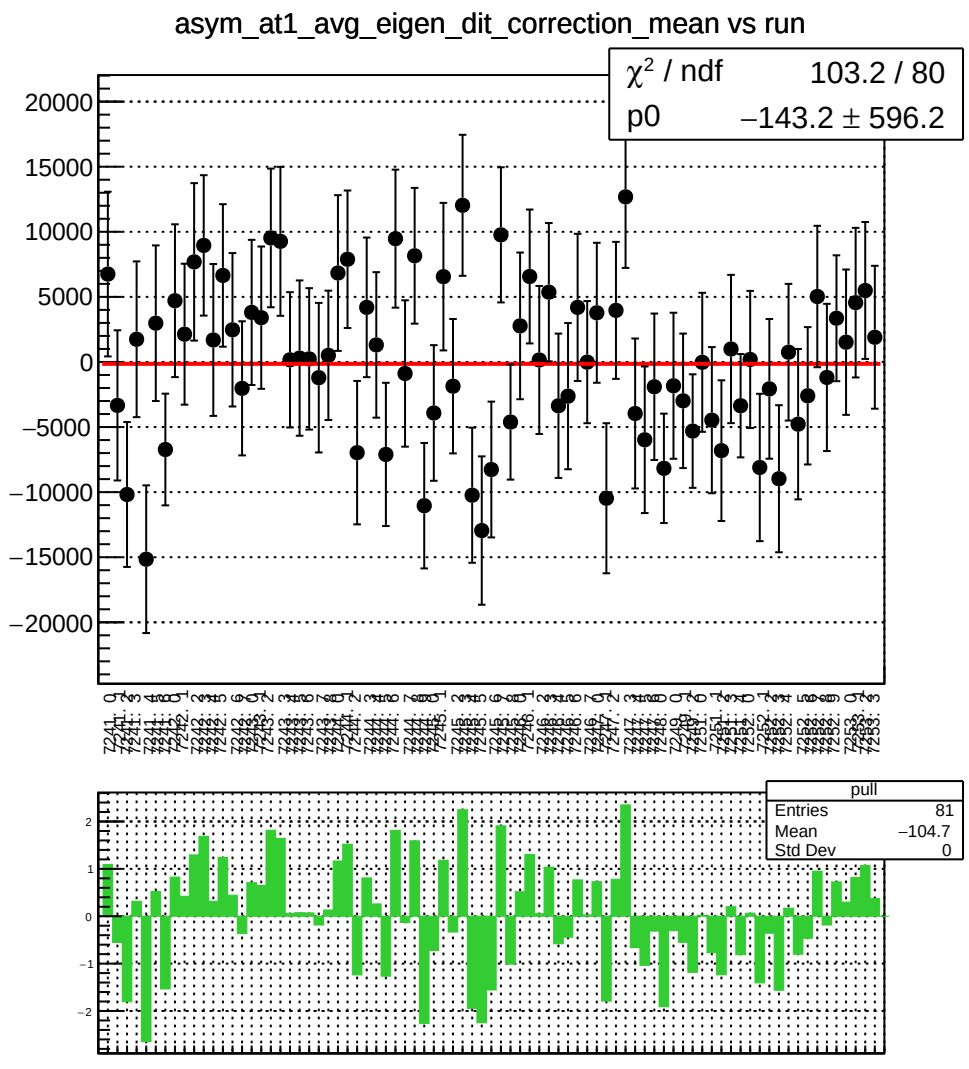

pull1D
Entries 81
Mean 0.02337
Std Dev 1.128

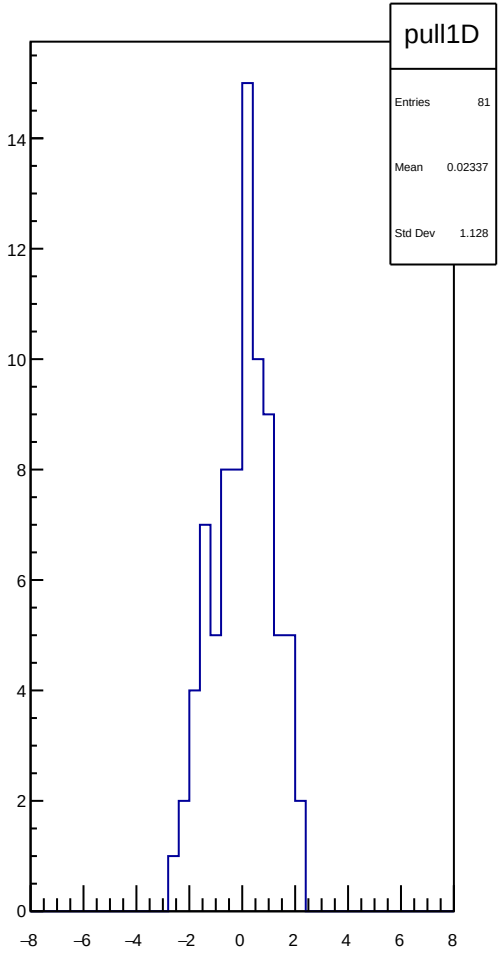

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 2876 / 80
p0 524.3 ± 0.4216
600
580
560
540
520
500
480

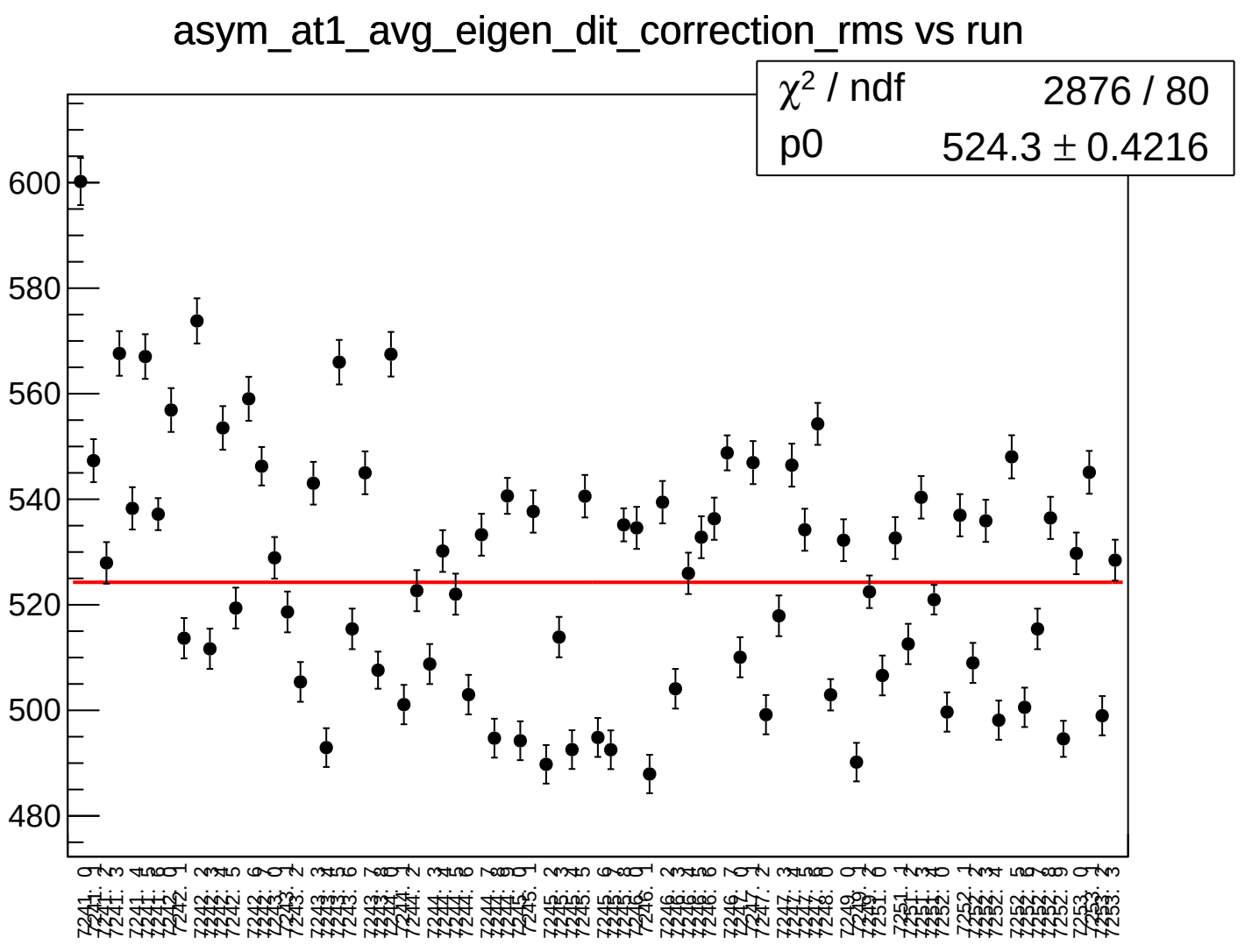

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 94.84 / 80
p0 2054 ± 2057
pull
Entries 81
Mean 635.9
Std Dev 0

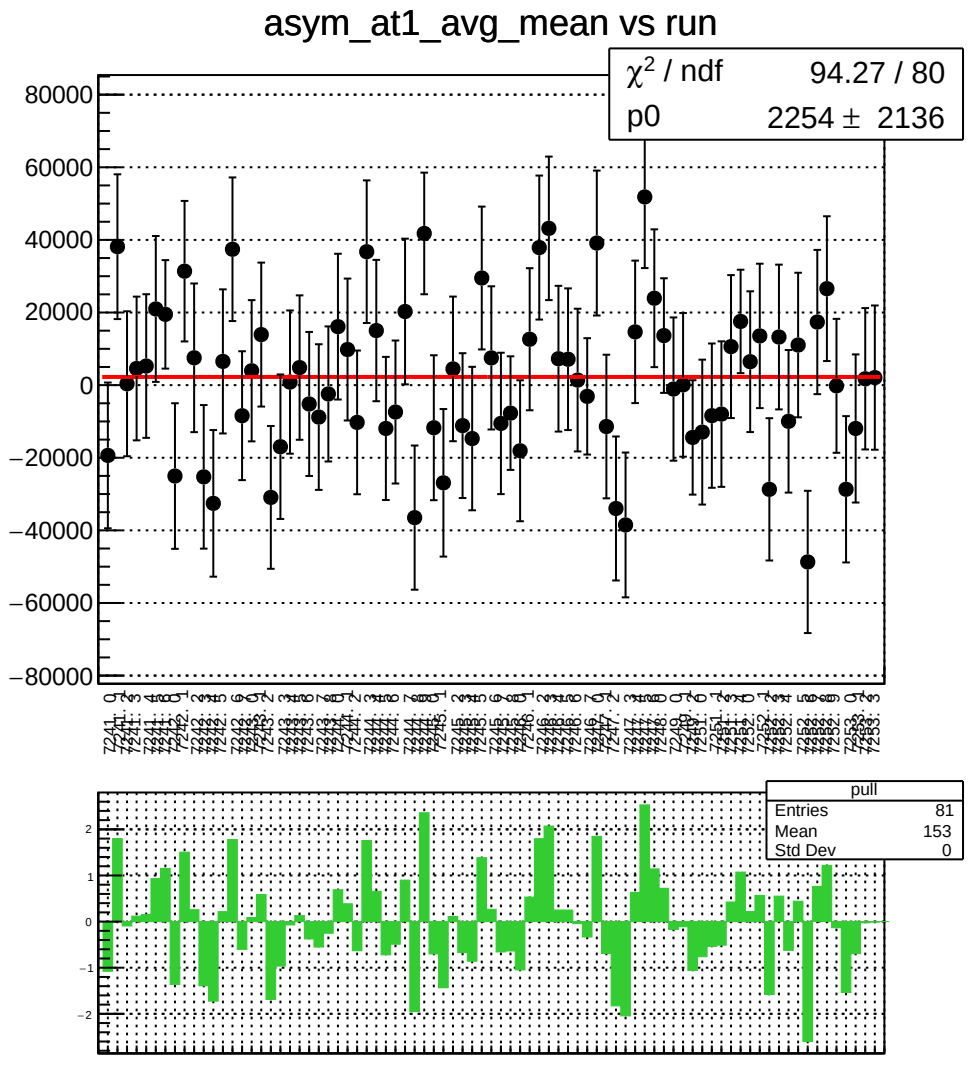

pull1D
Entries 81
Mean −0.00409
Std Dev 1.082

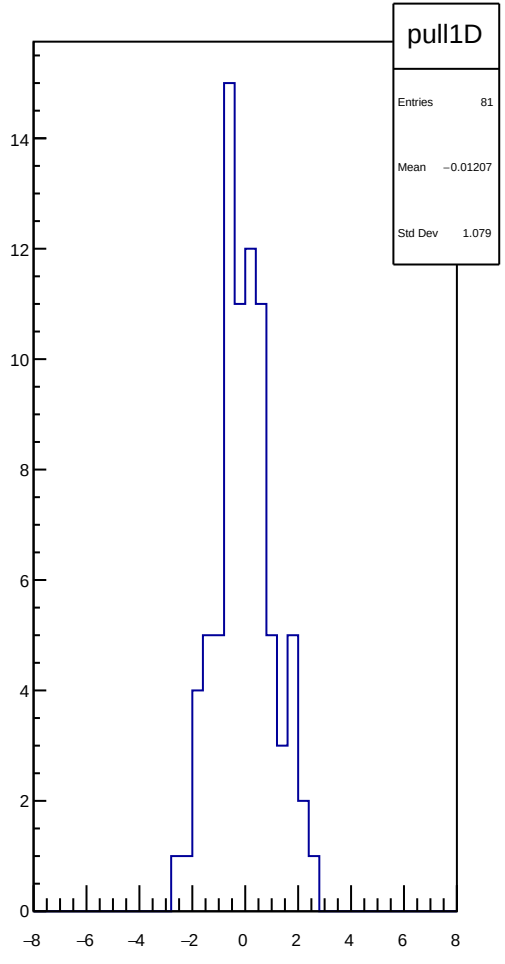

eigen_dit_asym_at1_avg_rms vs run
χ² / ndf 126.5 / 80
p0 1810 ± 1.455
1860
1840
1820
1800
1780
1760

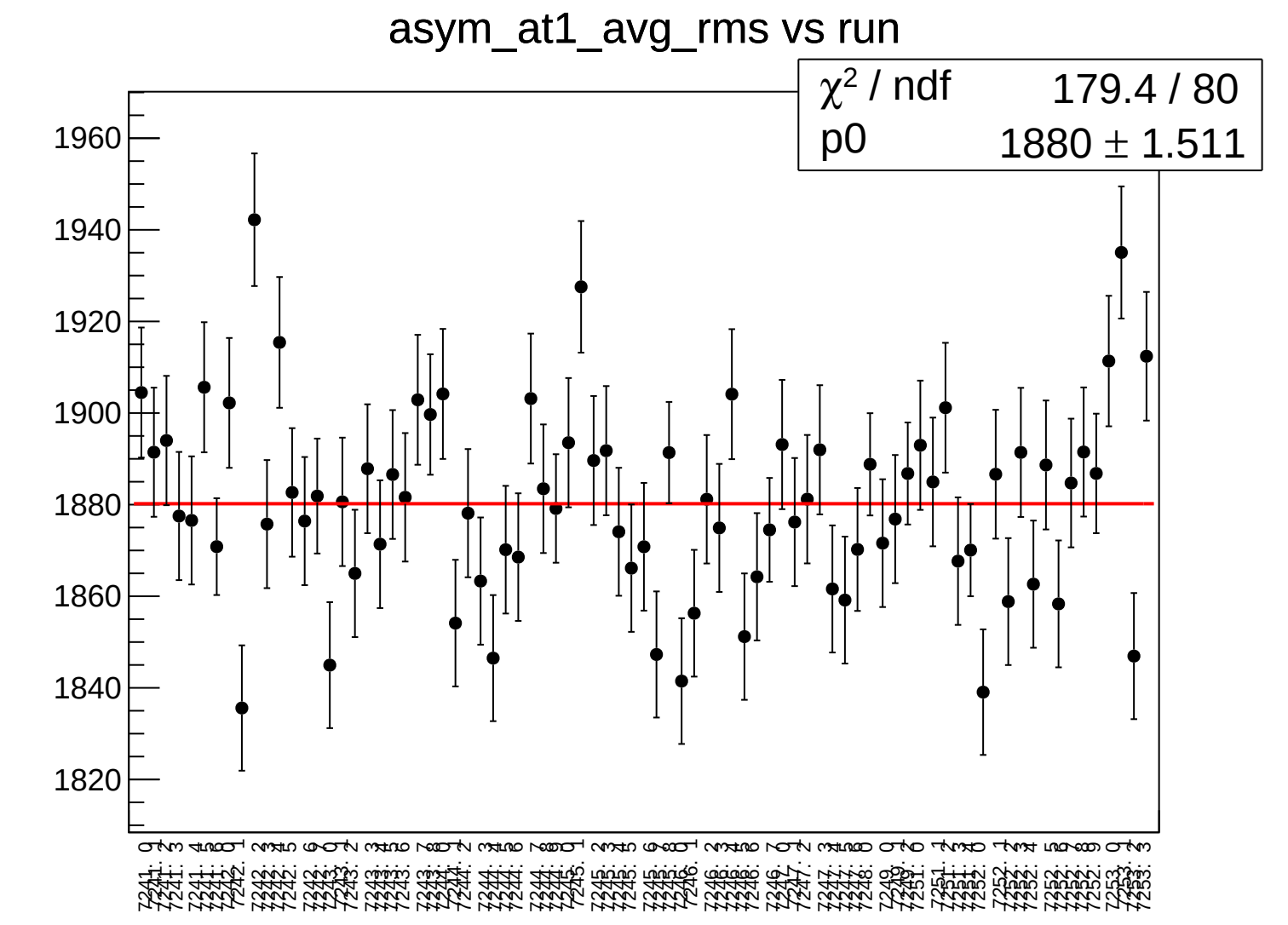

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 103.2 / 80
p0 −143.2 ± 596.2
pull
Entries 81
Mean −104.7
Std Dev 0

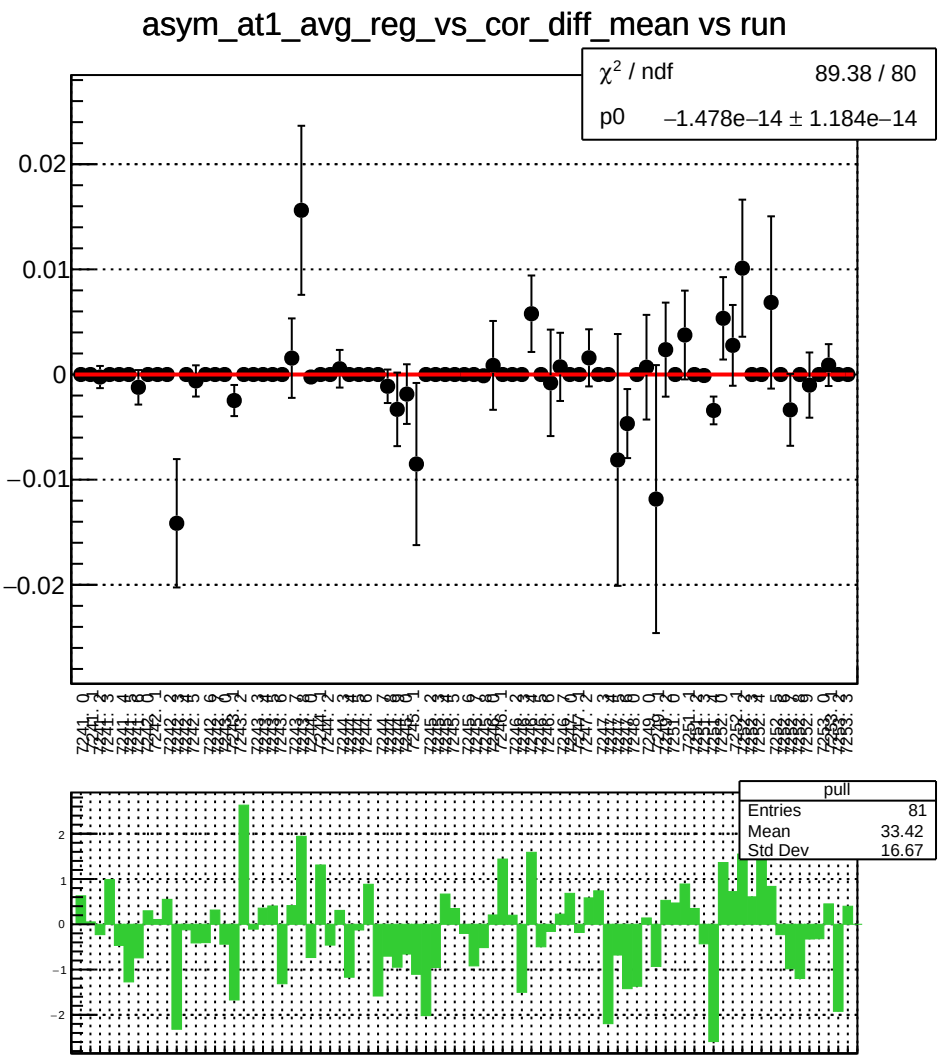

pull1D
Entries 81
Mean 0.02337
Std Dev 1.128

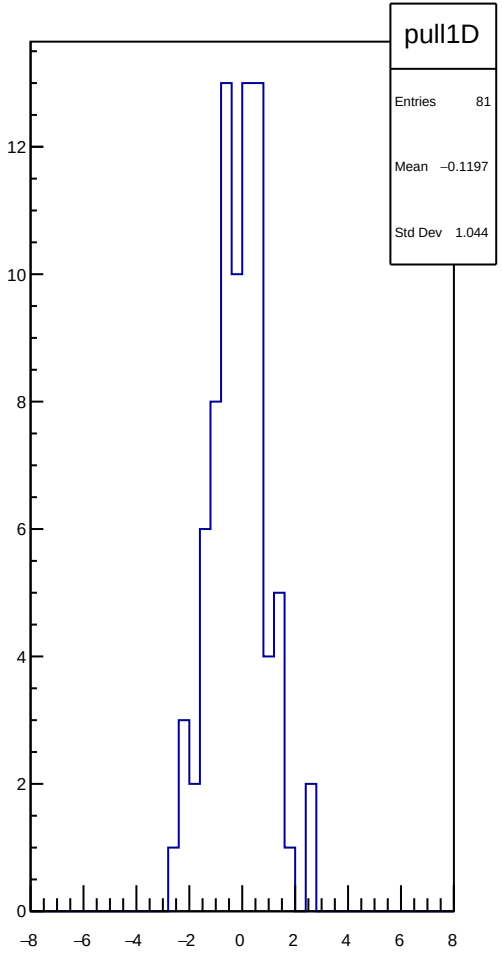

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 2876 / 80
p0 524.3 ± 0.4216
600
580
560
540
520
500
480

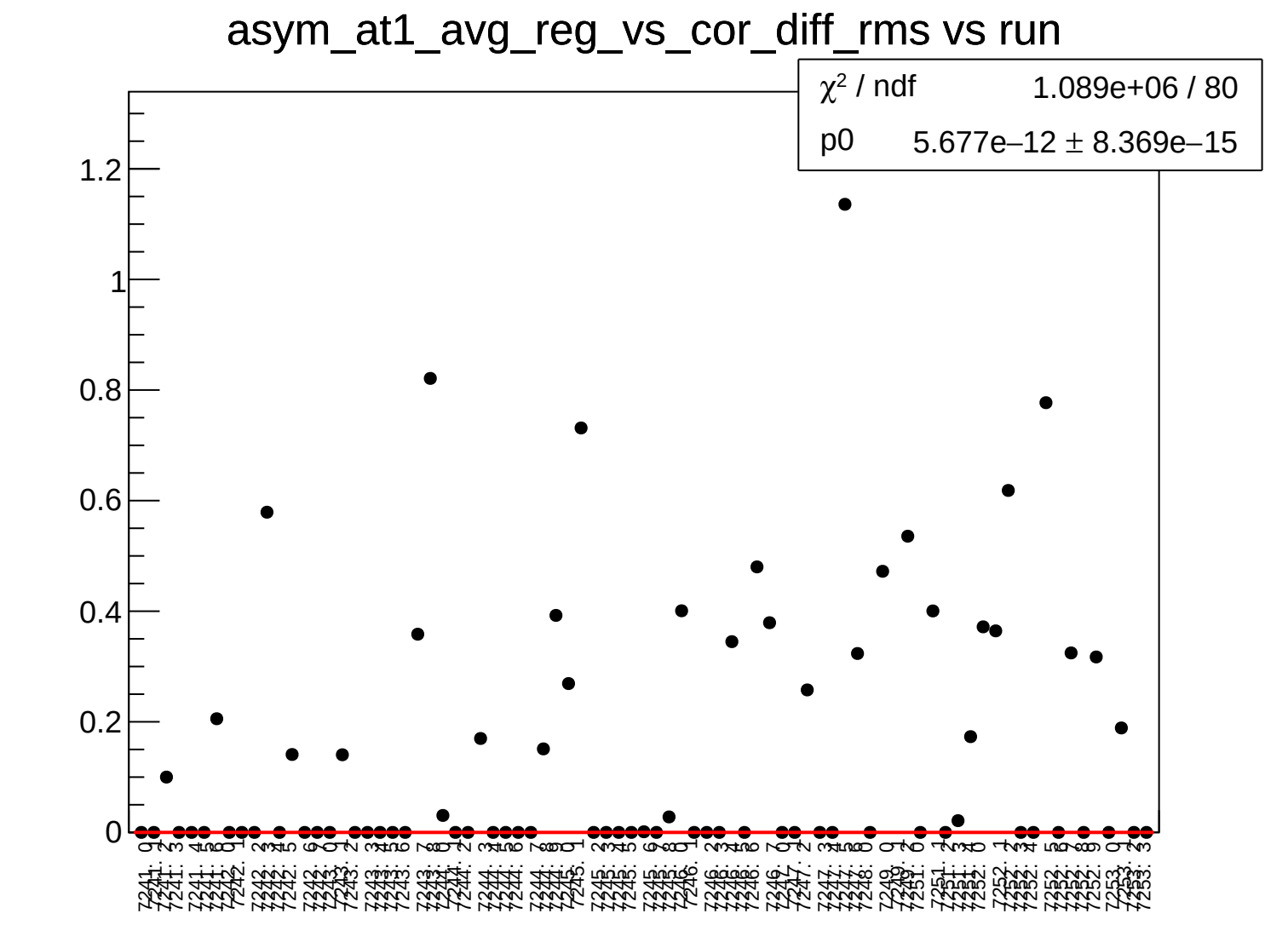

asym_at1_avg_mean vs run
χ² / ndf 94.27 / 80
p0 2254 ± 2136
pull
Entries 81
Mean 153
Std Dev 0

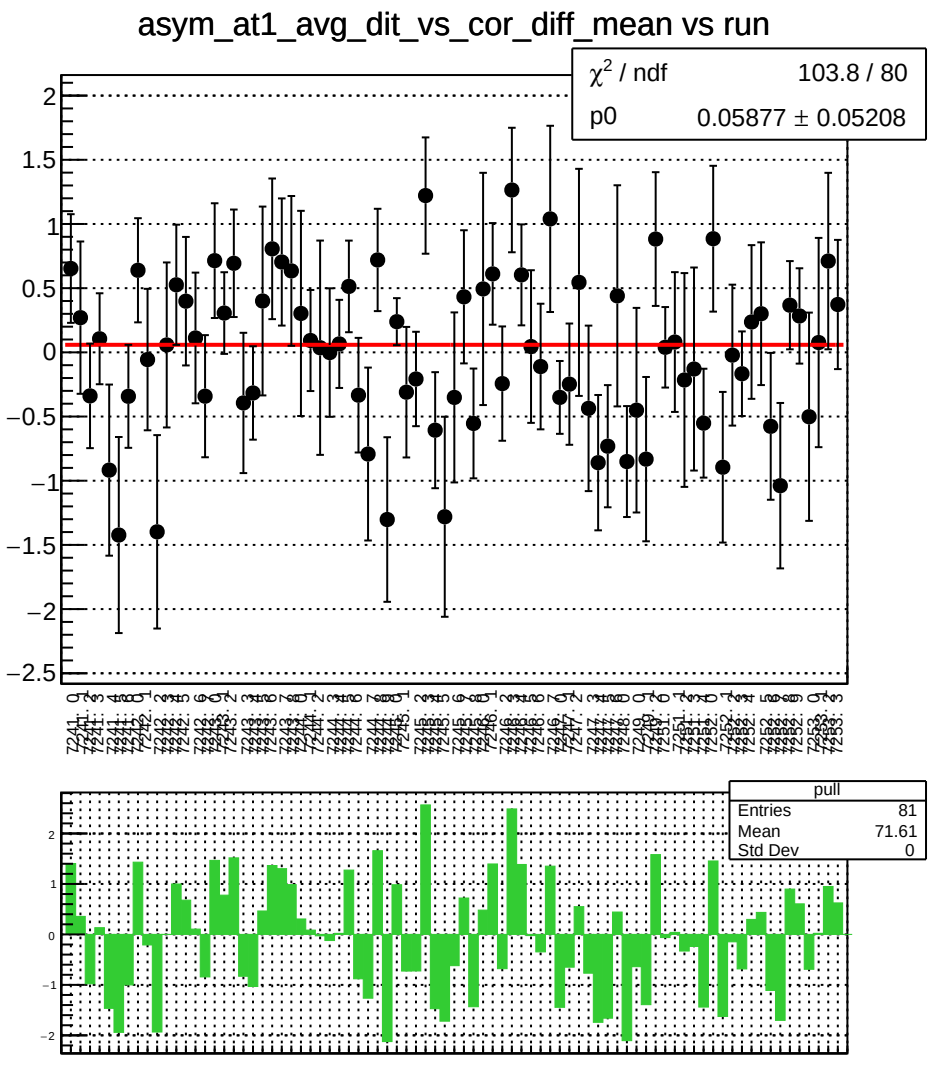

pull1D
Entries 81
Mean −0.01207
Std Dev 1.079

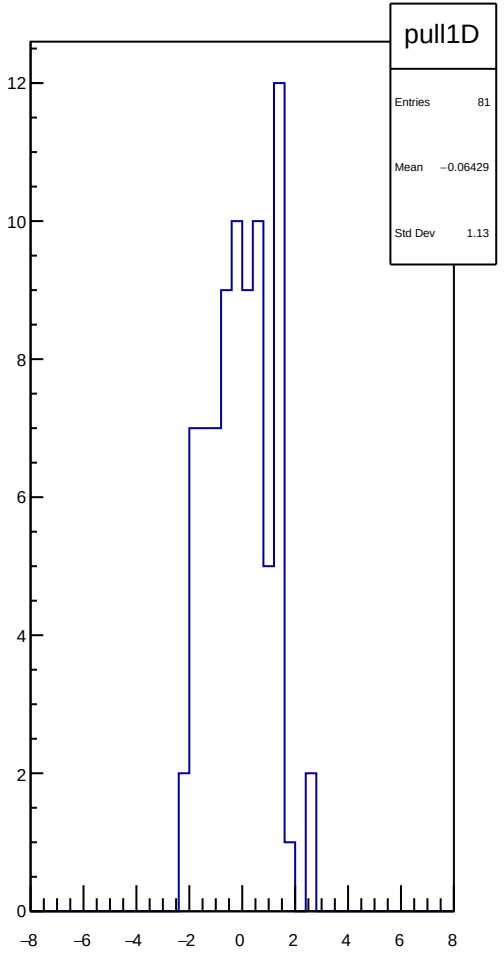

asym_at1_avg_rms vs run
χ² / ndf 179.4 / 80
p0 1880 ± 1.511
1960
1940
1920
1900
1880
1860
1840
1820

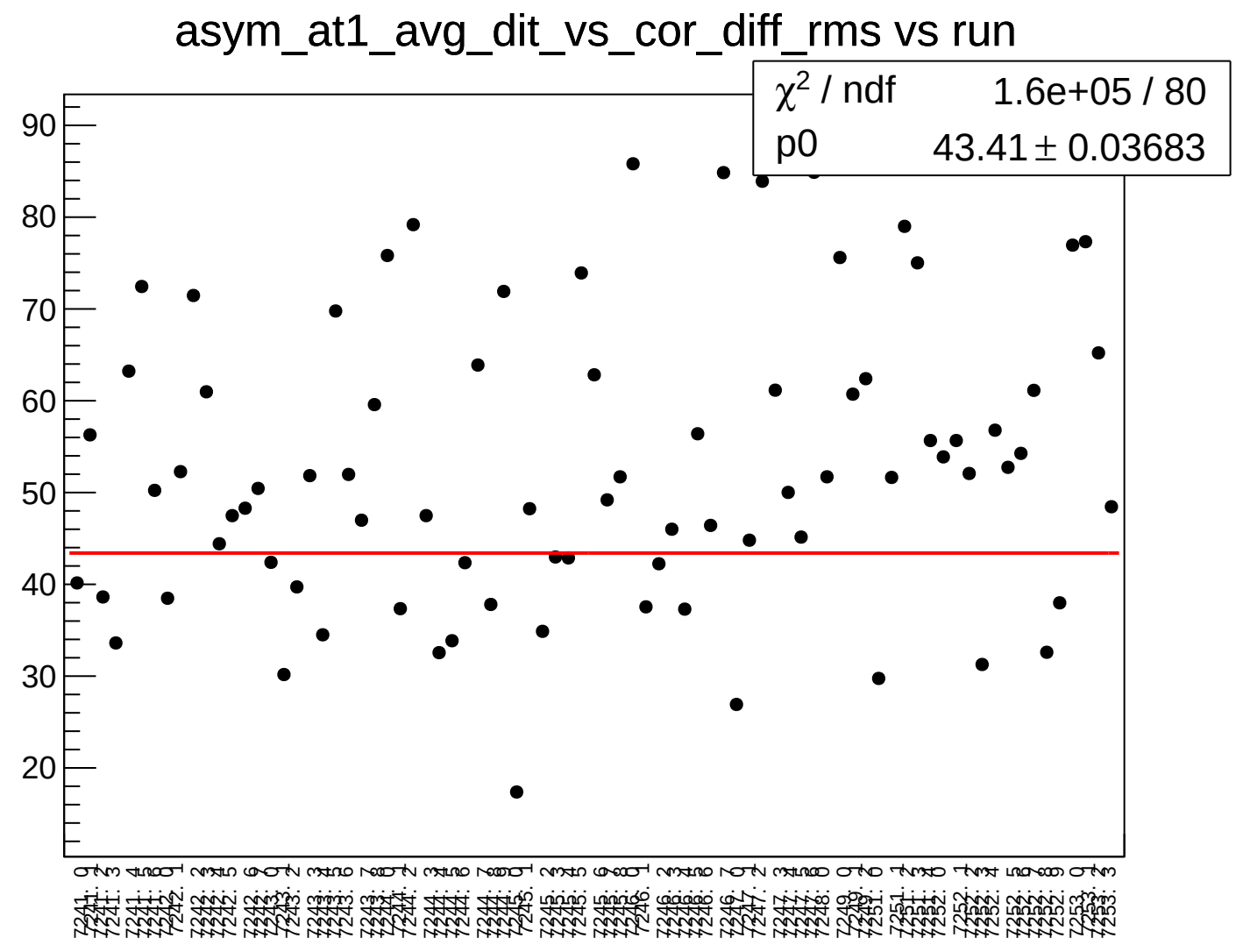

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 89.38 / 80
p0 −1.478e−14 ± 1.184e−14
0.02
0.01
0
−0.01
−0.02
pull
Entries 81
Mean 33.42
Std Dev 16.67
2
1
0
−1
−2

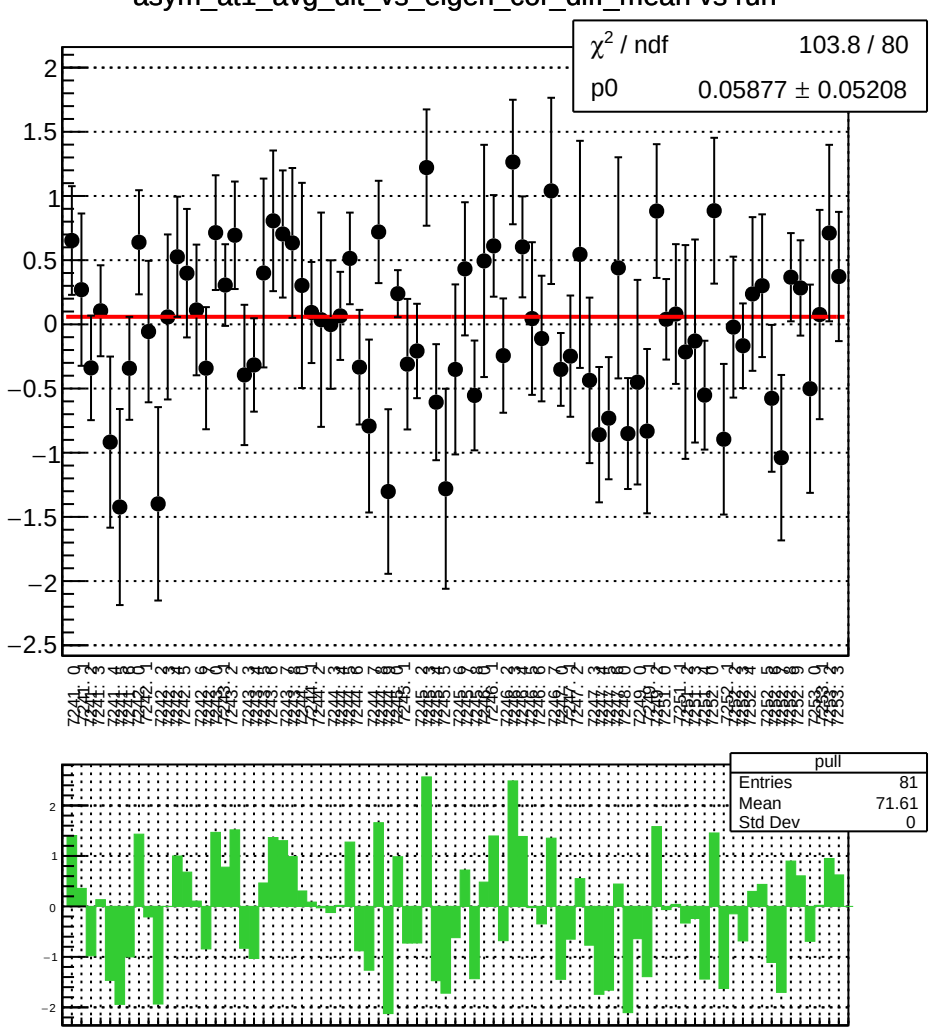

pull1D
Entries 81
Mean −0.1197
Std Dev 1.044
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

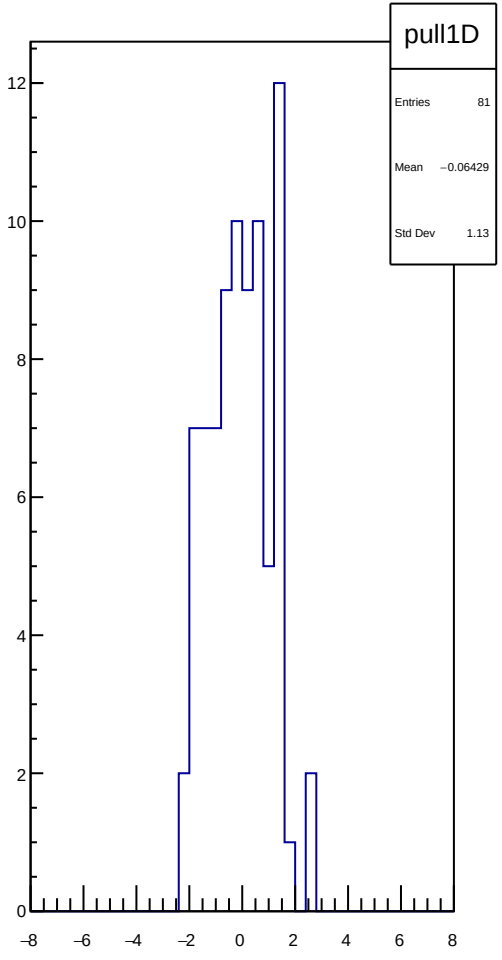

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.089e+06 / 80
p0 5.677e−12 ± 8.369e−15
1.2
1
0.8
0.6
0.4
0.2
0

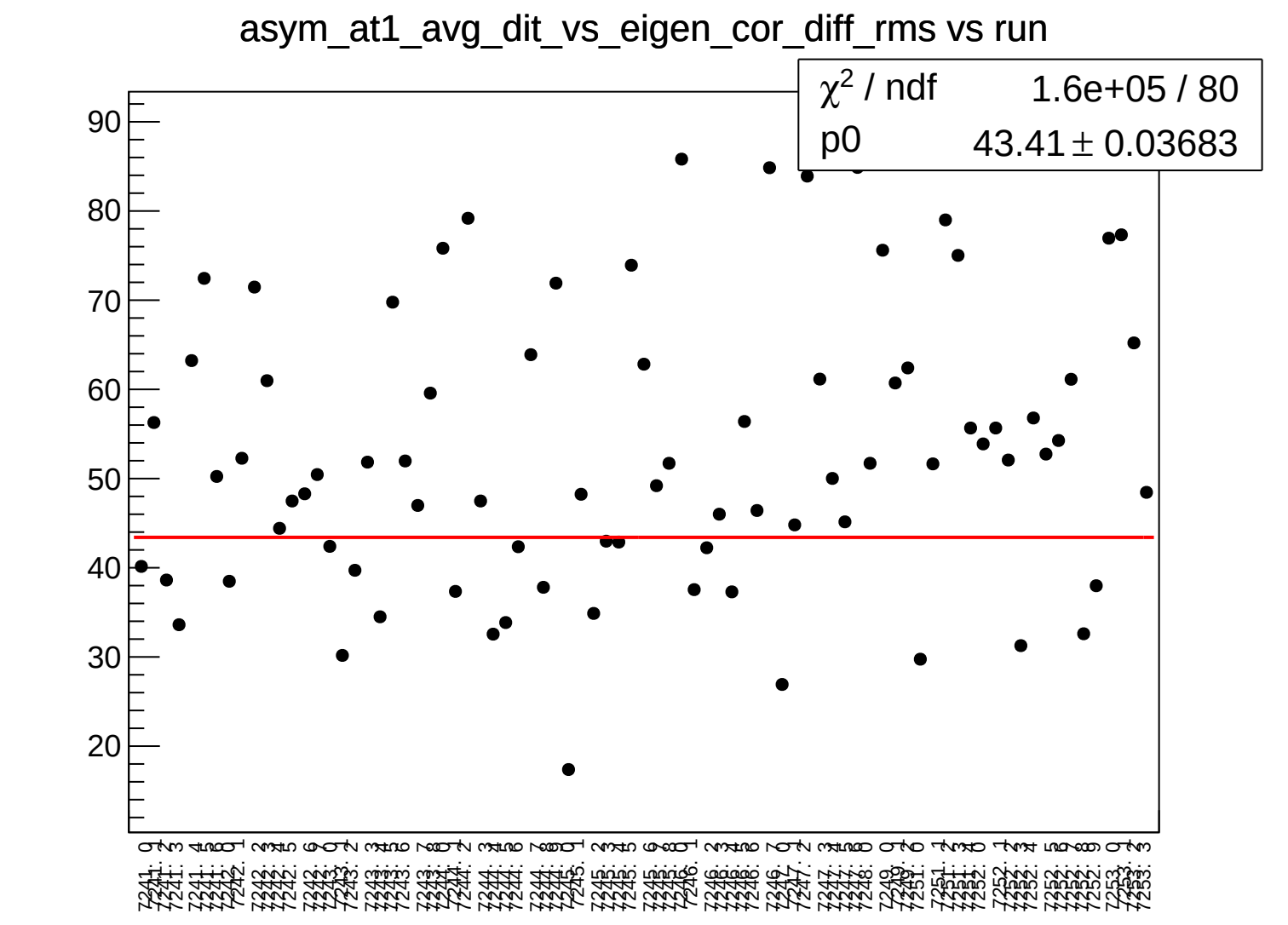

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 103.8 / 80
p0 0.05877 ± 0.05208
pull
Entries 81
Mean 71.61
Std Dev 0

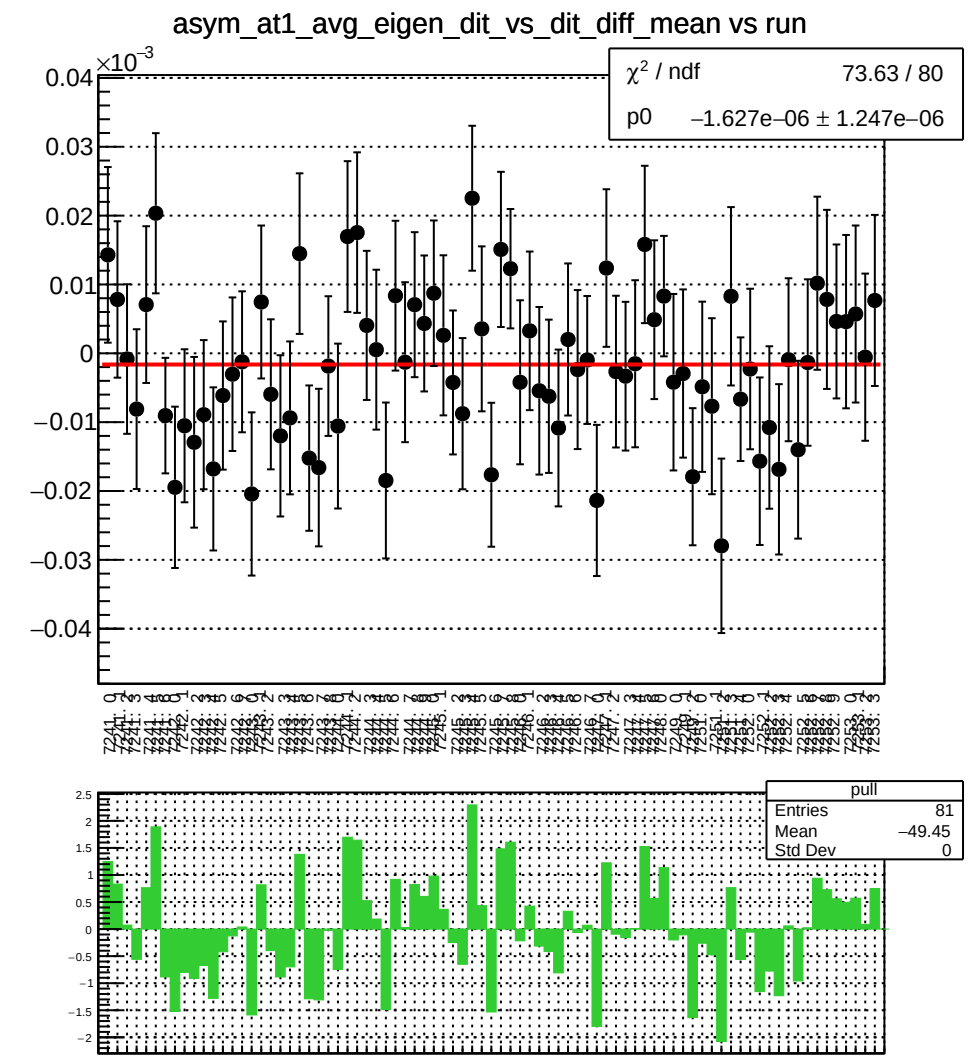

pull1D
Entries 81
Mean −0.06429
Std Dev 1.13

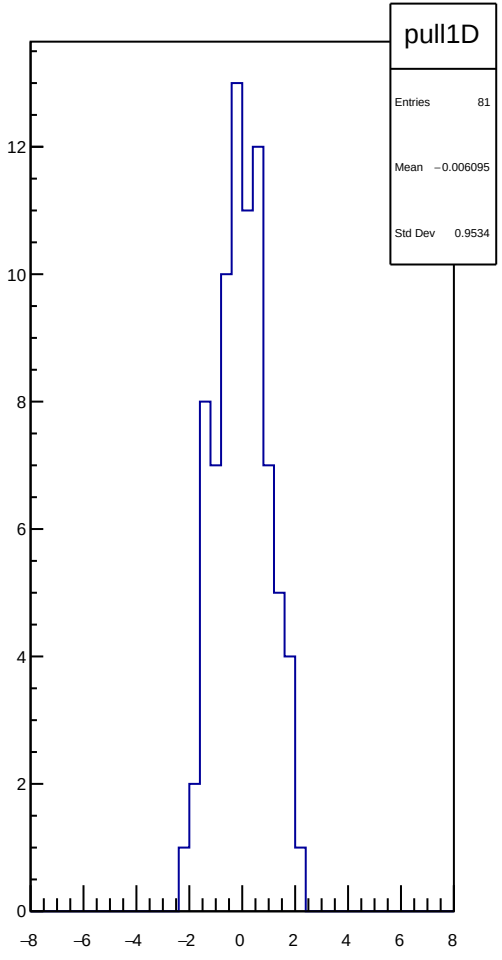

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.6e+05 / 80
p0 43.41 ± 0.03683
90
80
70
60
50
40
30
20

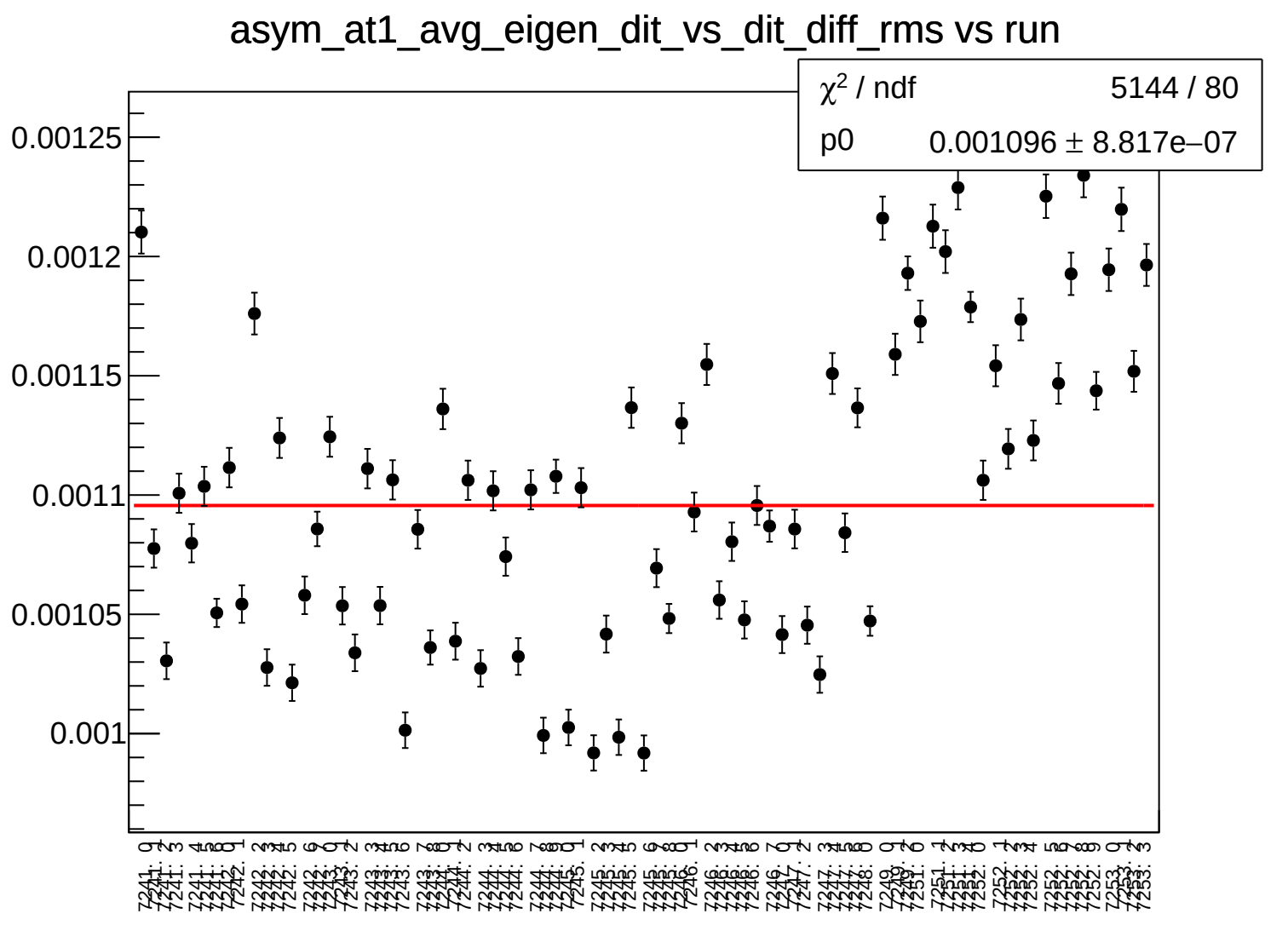

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.8 / 80
p0 0.05877 ± 0.05208
pull
Entries 81
Mean 71.61
Std Dev 0

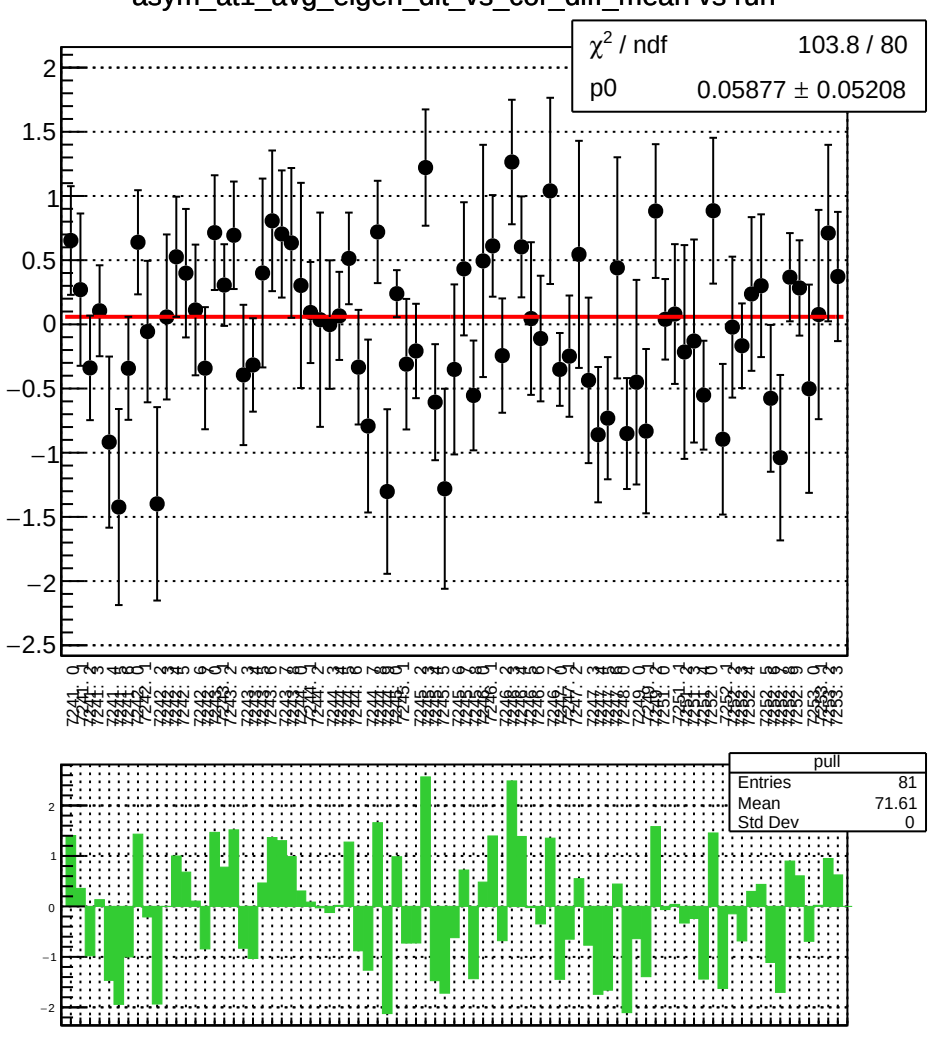

pull1D
Entries 81
Mean −0.06429
Std Dev 1.13

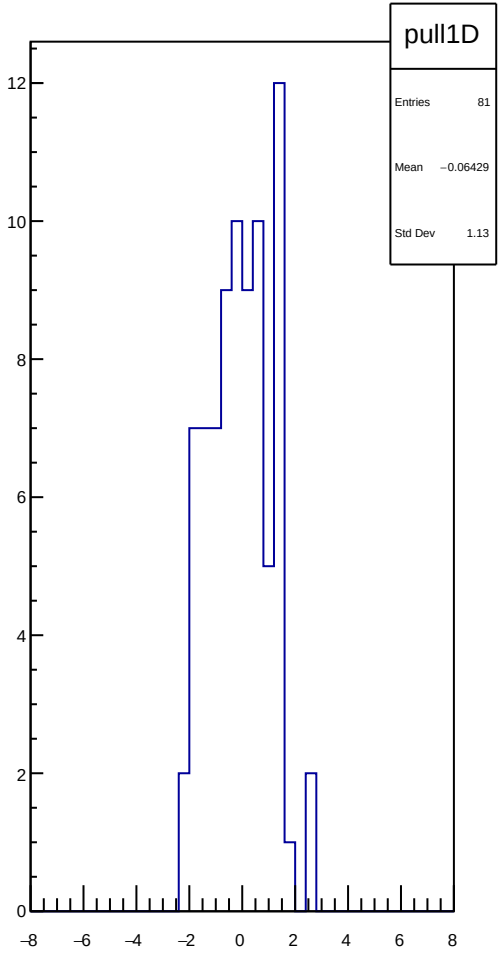

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.6e+05 / 80
p0 43.41 ± 0.03683
90
80
70
60
50
40
30
20

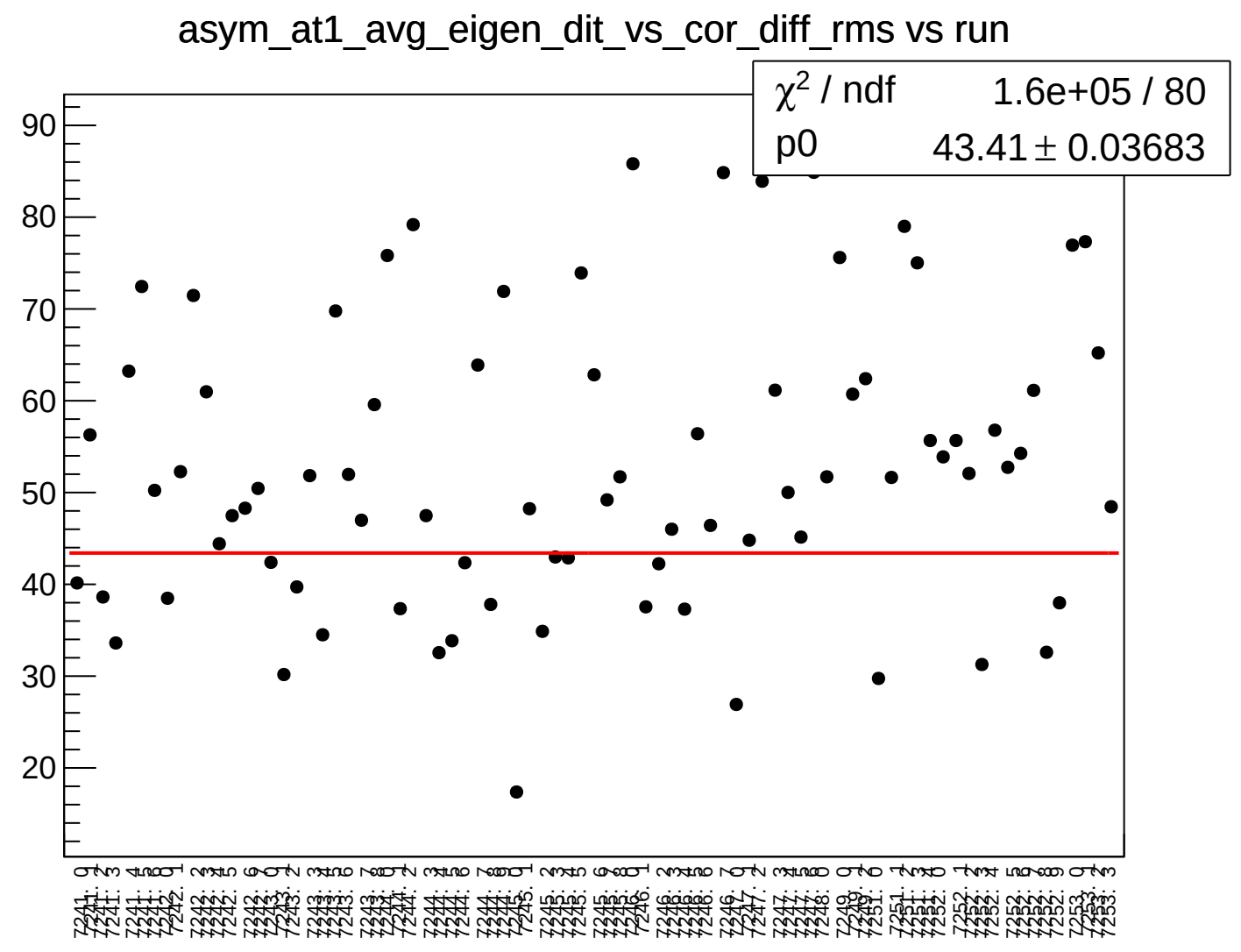

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 73.63 / 80
p0 −1.627e−06 ± 1.247e−06
×10⁻³
pull
Entries 81
Mean −49.45
Std Dev 0

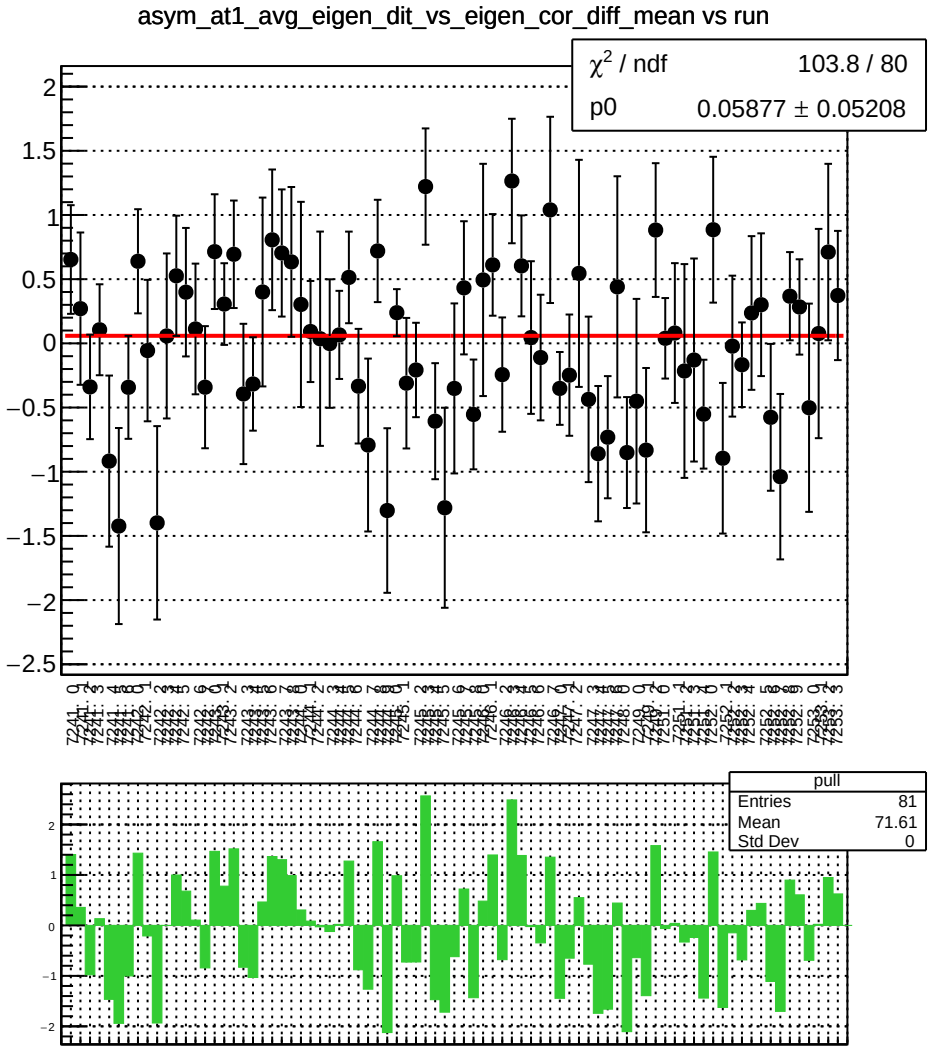

pull1D
Entries 81
Mean −0.006095
Std Dev 0.9534

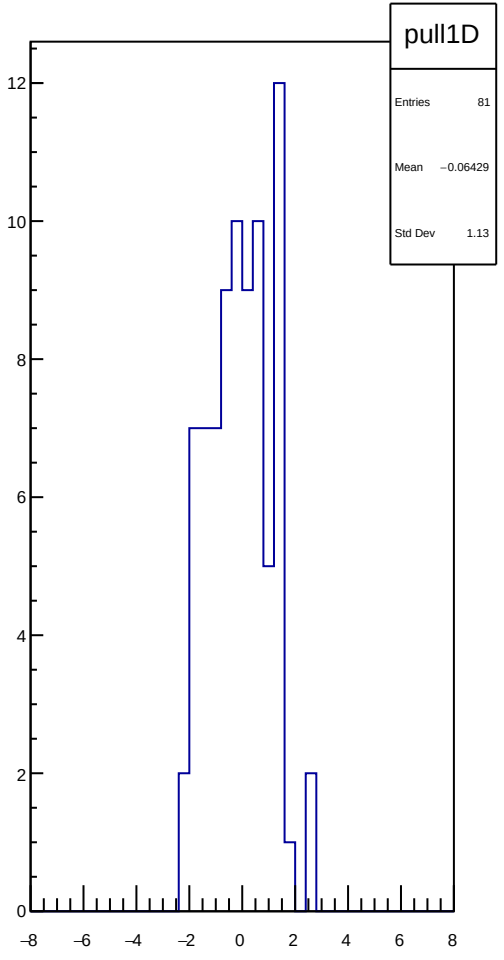

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5144 / 80
p0 0.001096 ± 8.817e−07
0.00125
0.0012
0.00115
0.0011
0.00105
0.001

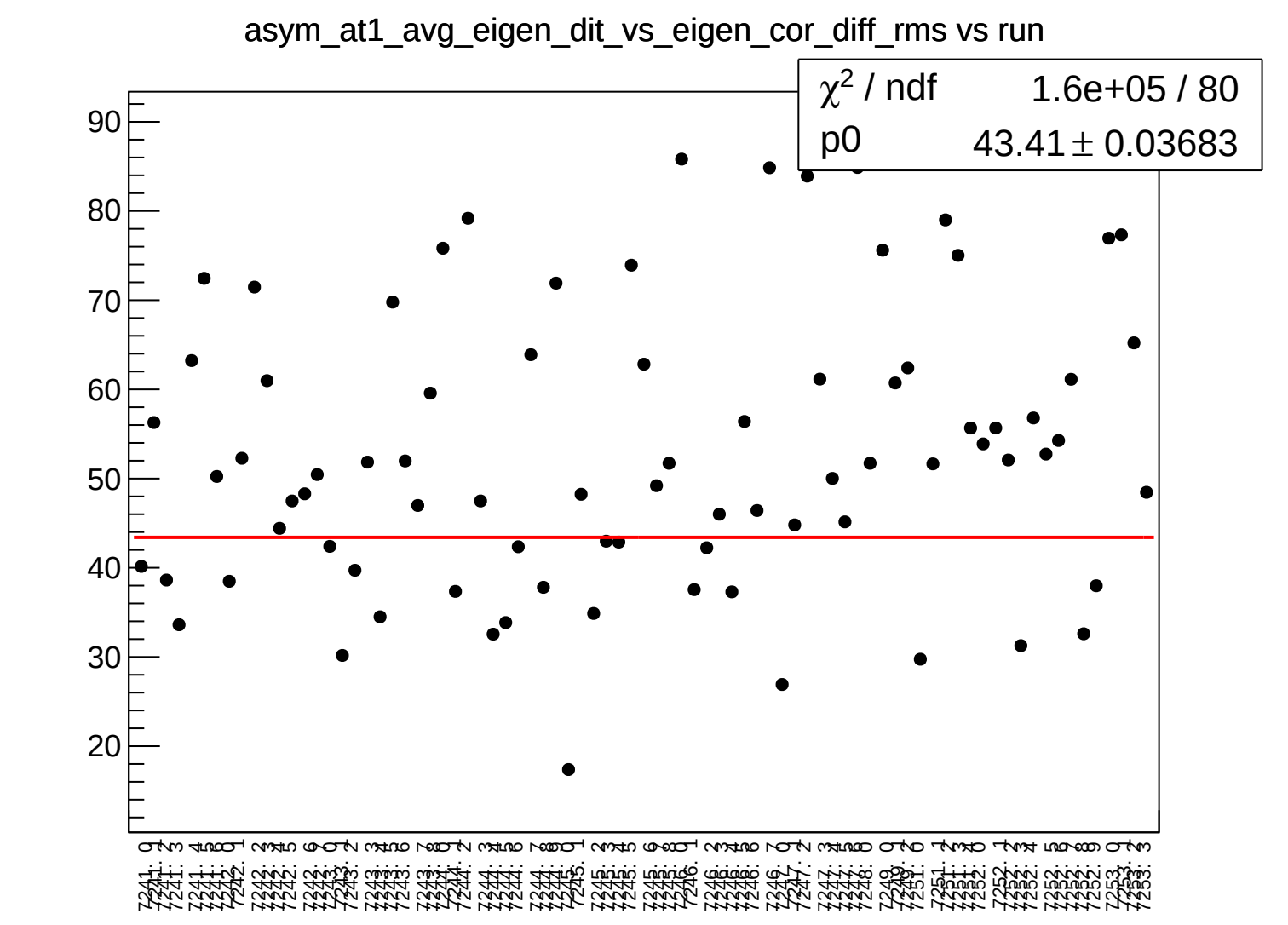

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103.8 / 80
p0 0.05877 ± 0.05208
pull
Entries 81
Mean 71.61
Std Dev 0

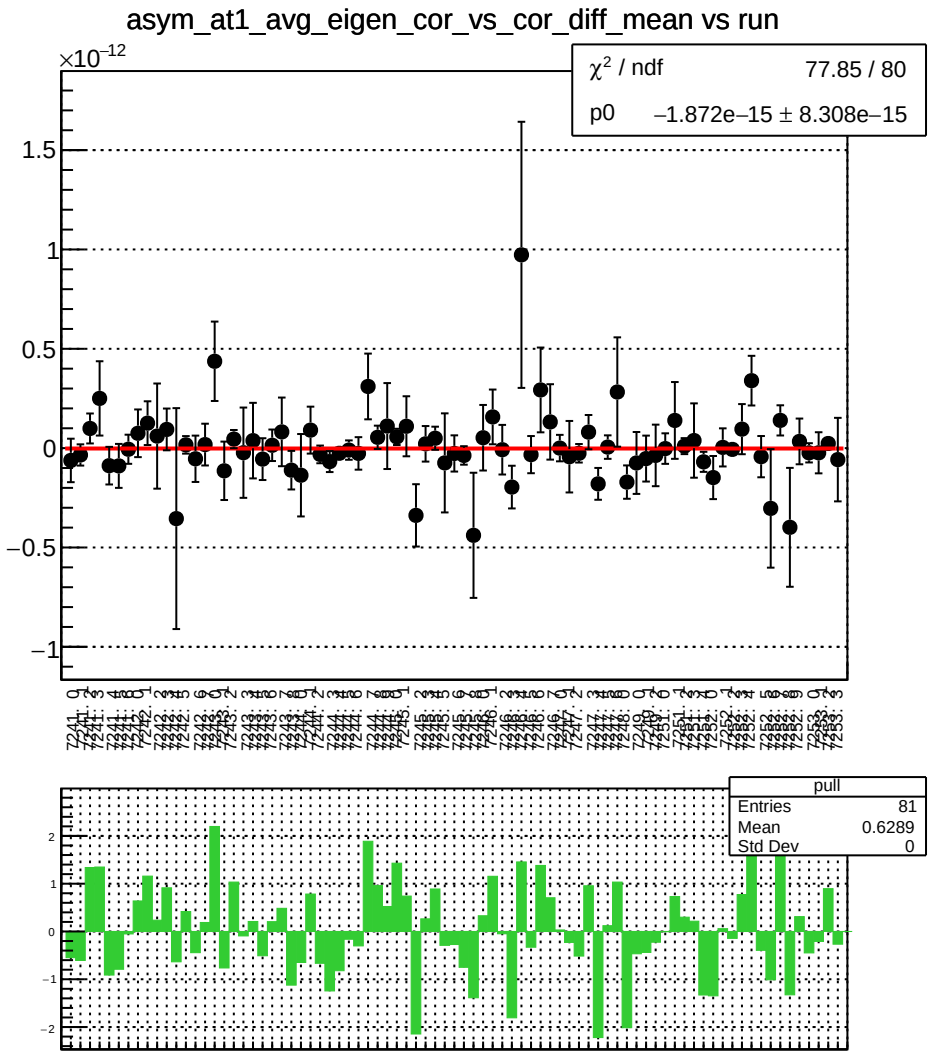

pull1D
Entries 81
Mean −0.06429
Std Dev 1.13

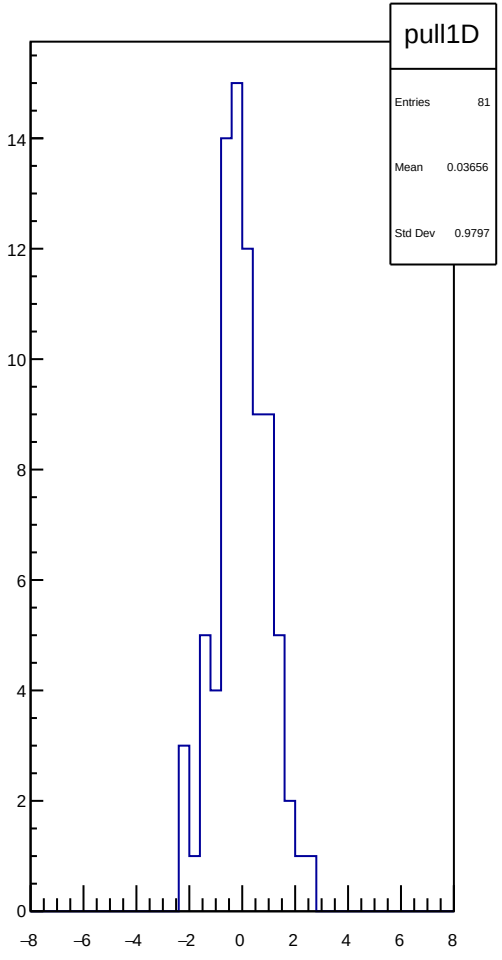

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.6e+05 / 80
p0 43.41 ± 0.03683
90
80
70
60
50
40
30
20

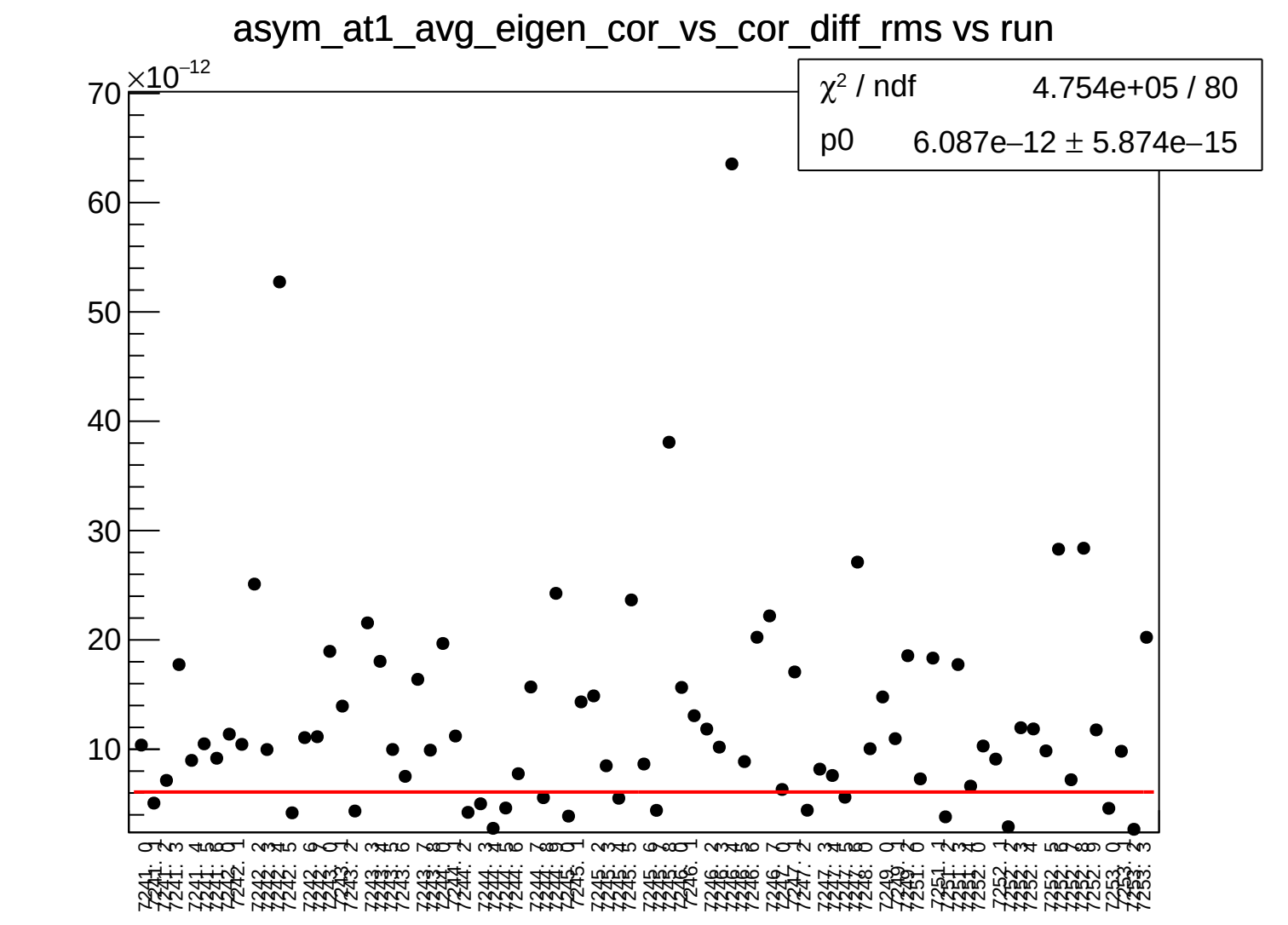

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.8 / 80
p0 0.05877 ± 0.05208
pull
Entries 81
Mean 71.61
Std Dev 0

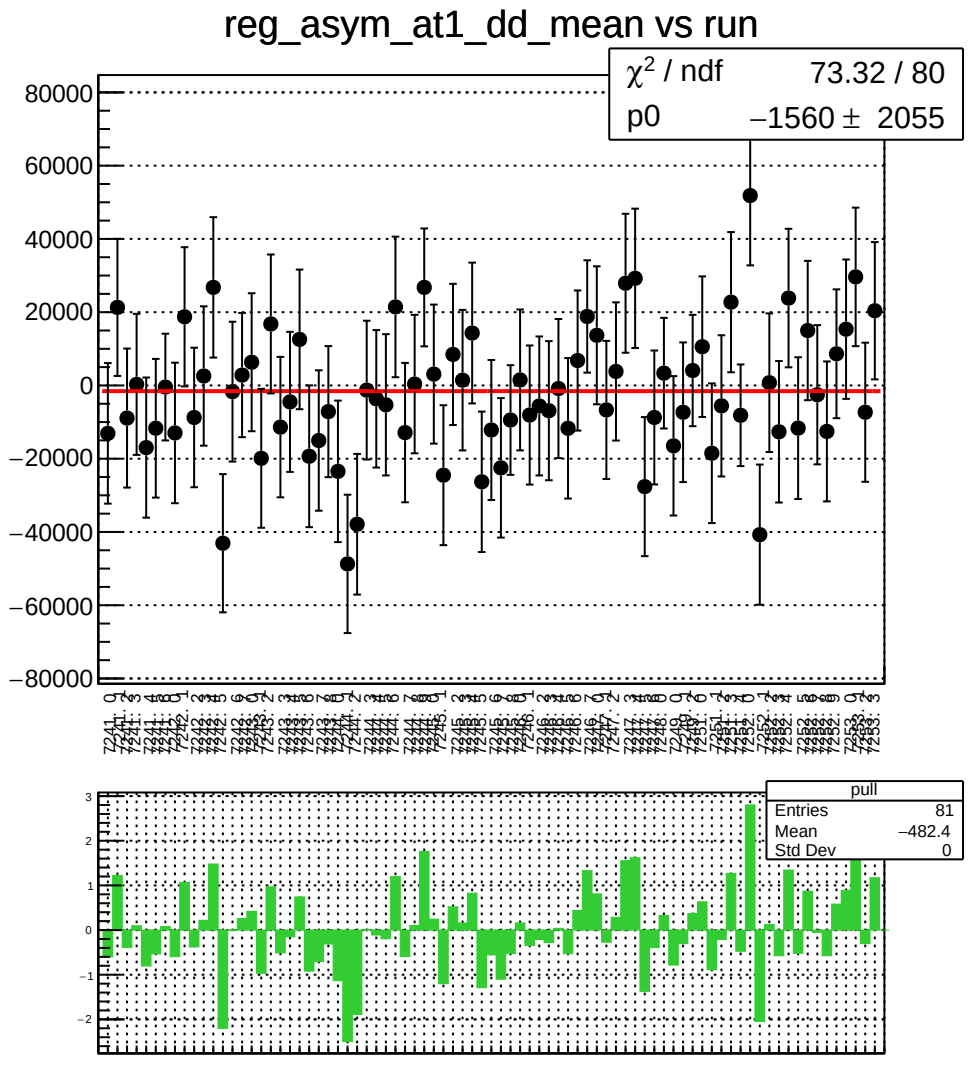

pull1D
Entries 81
Mean −0.06429
Std Dev 1.13

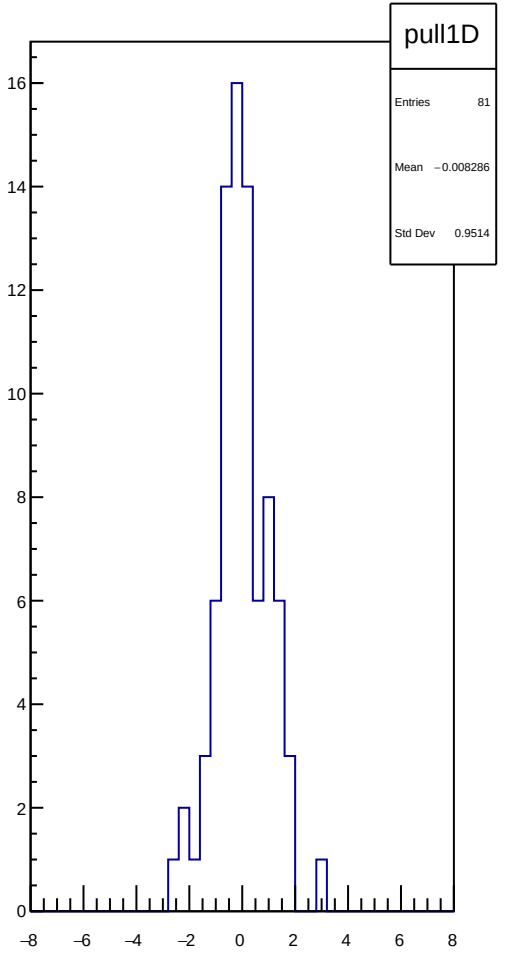

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.6e+05 / 80
p0 43.41 ± 0.03683
90
80
70
60
50
40
30
20

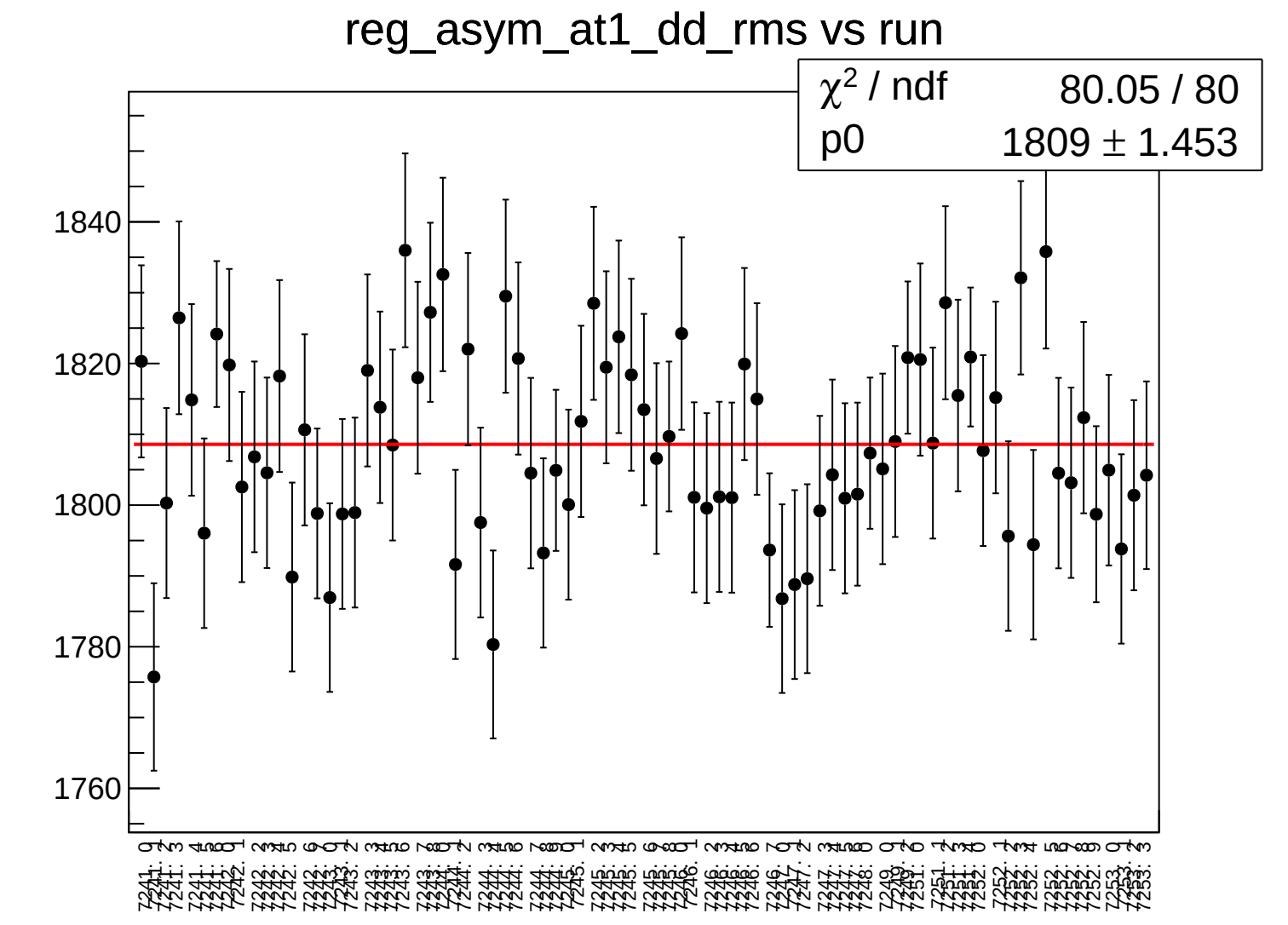

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.85 / 80
p0 −1.872e−15 ± 8.308e−15
pull
Entries 81
Mean 0.6289
Std Dev 0

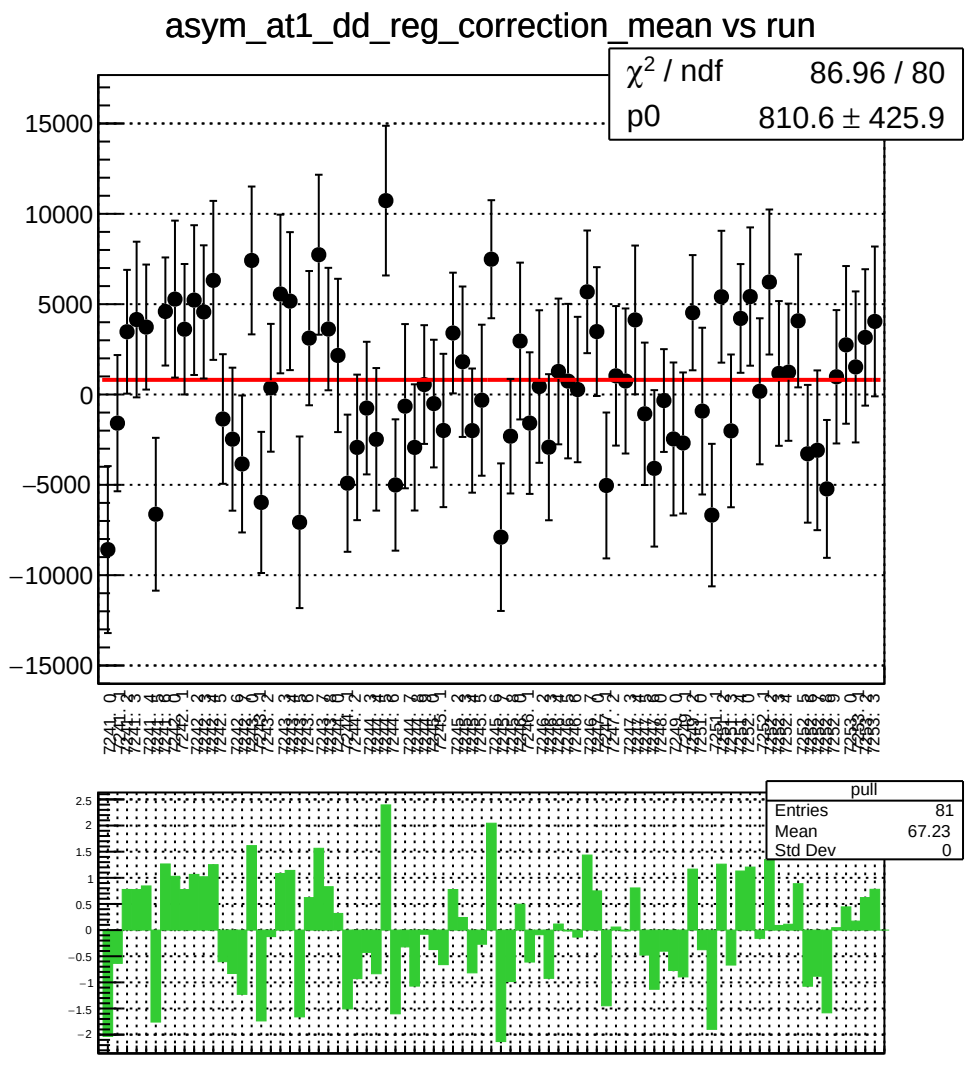

pull1D
Entries 81
Mean 0.03656
Std Dev 0.9797

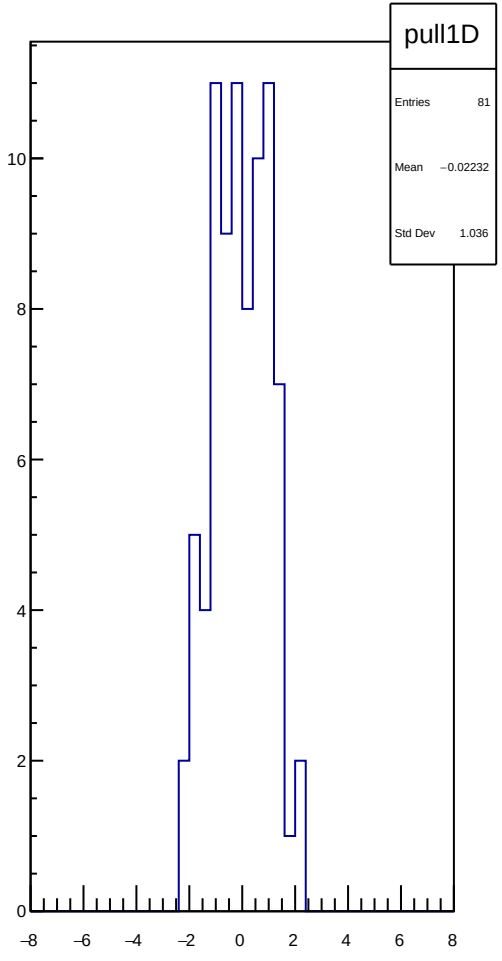

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
70
60
50
40
30
20
10
χ² / ndf 4.754e+05 / 80
p0 6.087e−12 ± 5.874e−15

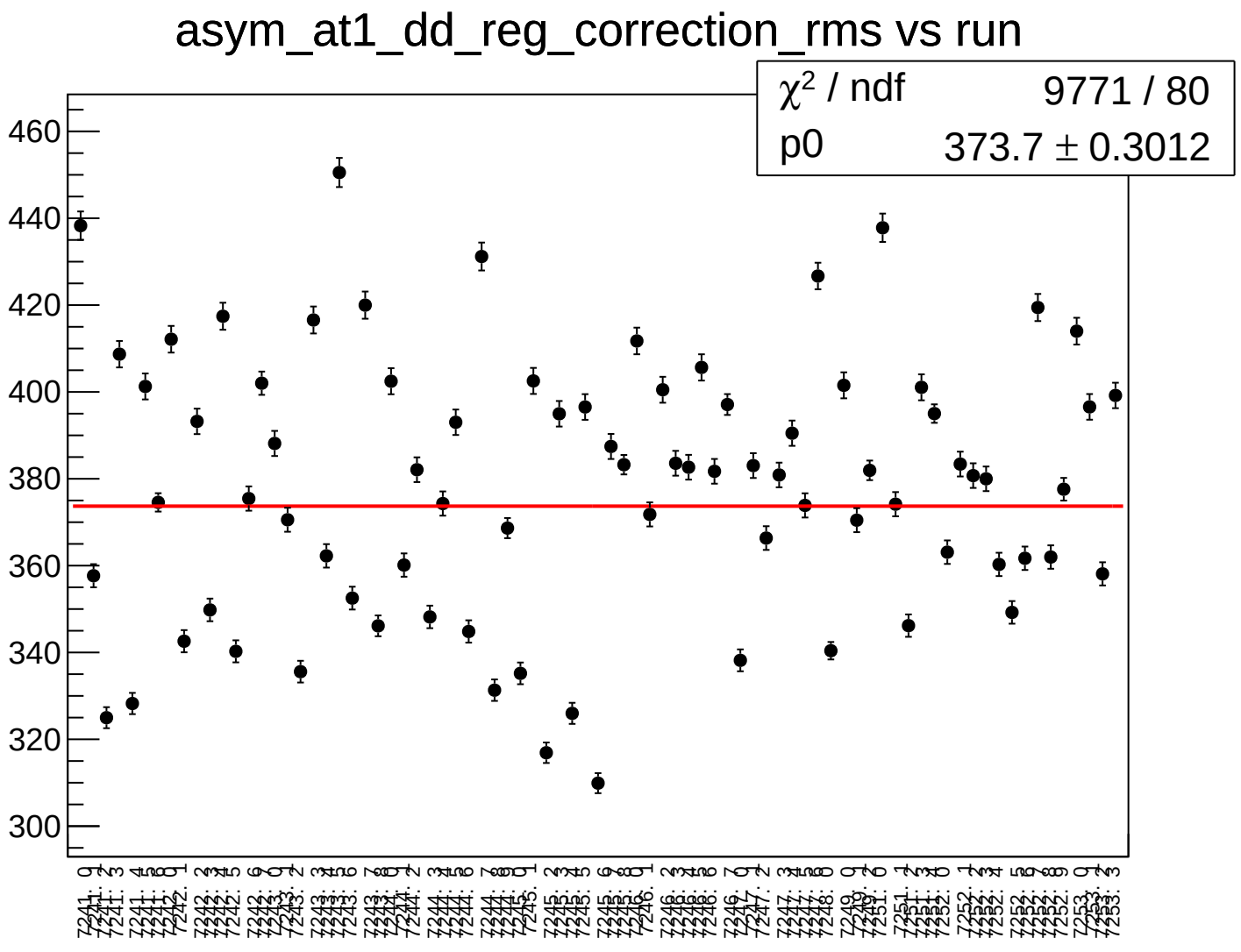

reg_asym_at1_dd_mean vs run
χ² / ndf 73.32 / 80
p0 −1560 ± 2055
pull
Entries 81
Mean −482.4
Std Dev 0

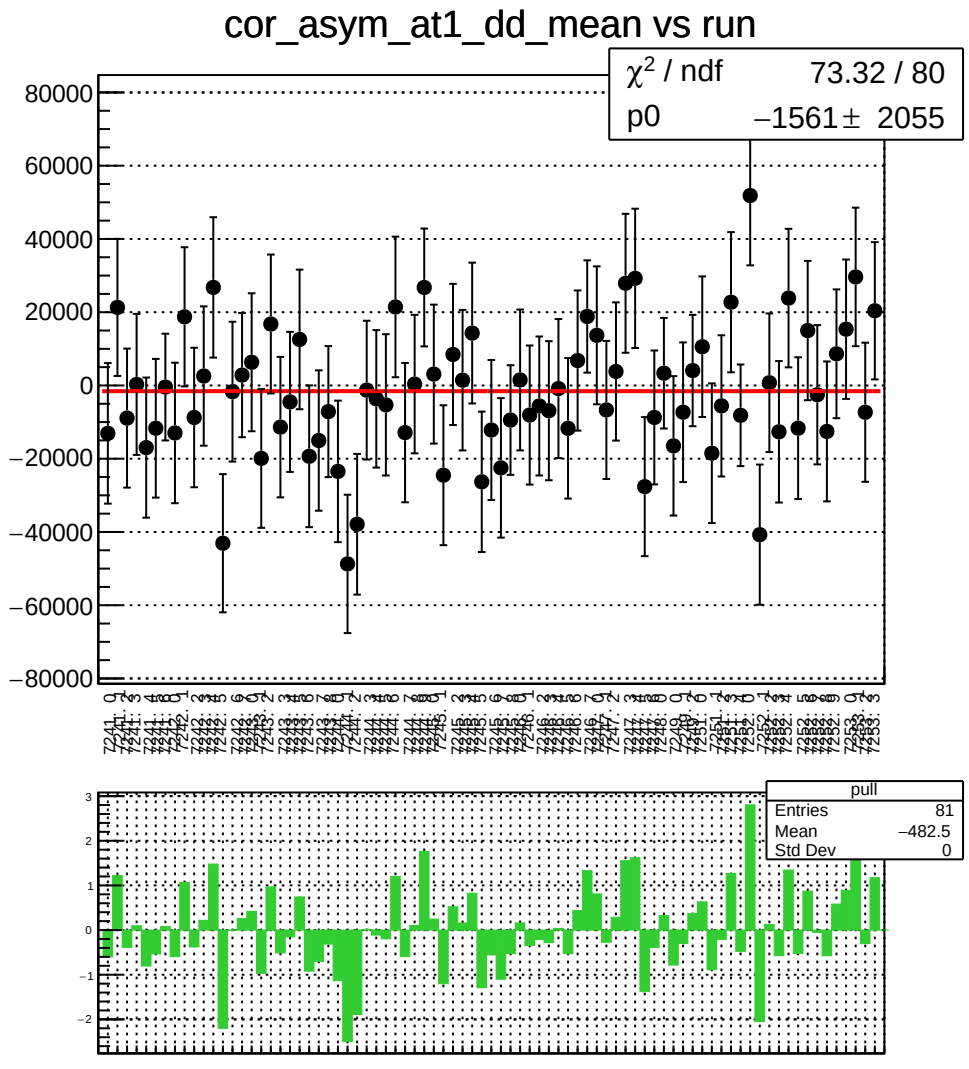

pull1D
Entries 81
Mean −0.008286
Std Dev 0.9514

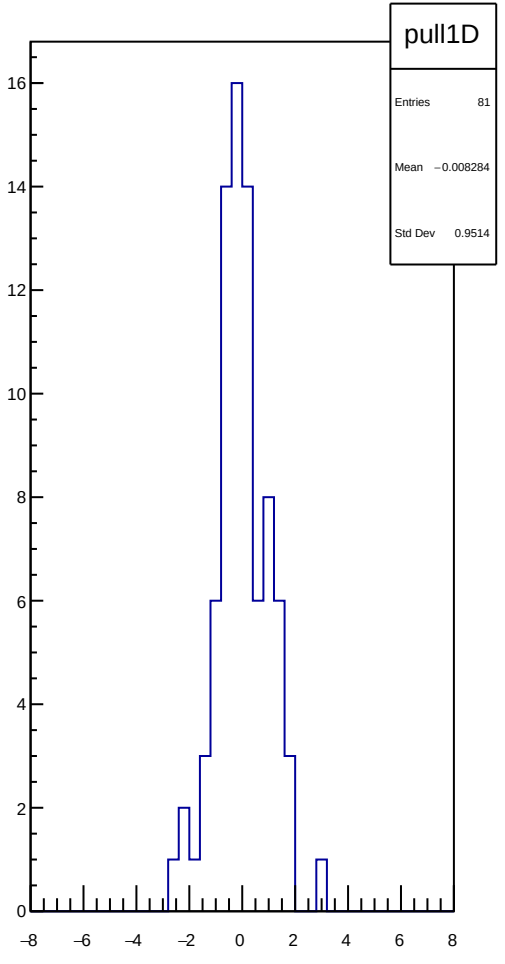

reg_asym_at1_dd_rms vs run
χ² / ndf 80.05 / 80
p0 1809 ± 1.453
1840
1820
1800
1780
1760

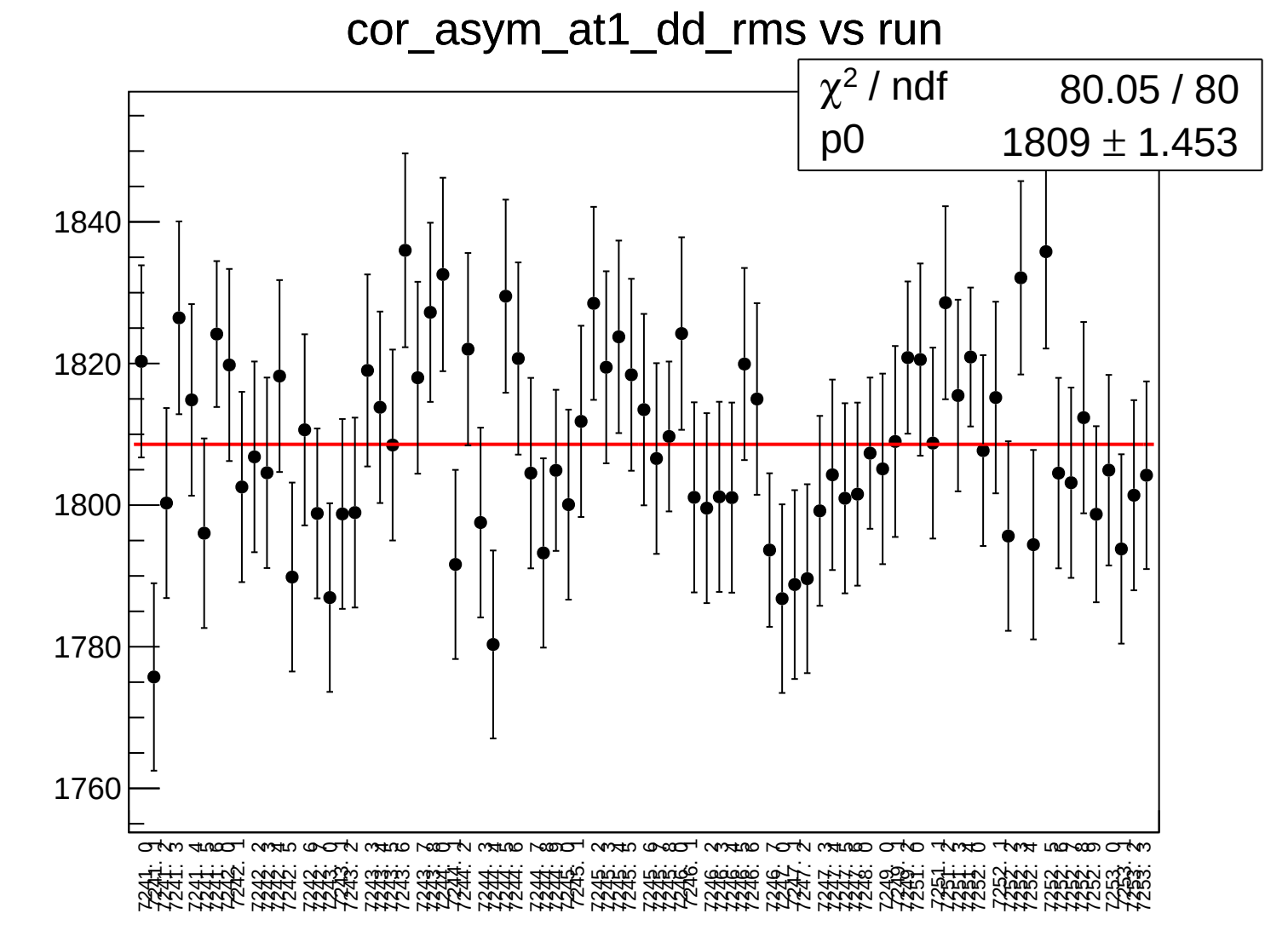

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 86.96 / 80
p0 810.6 ± 425.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean 67.23
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

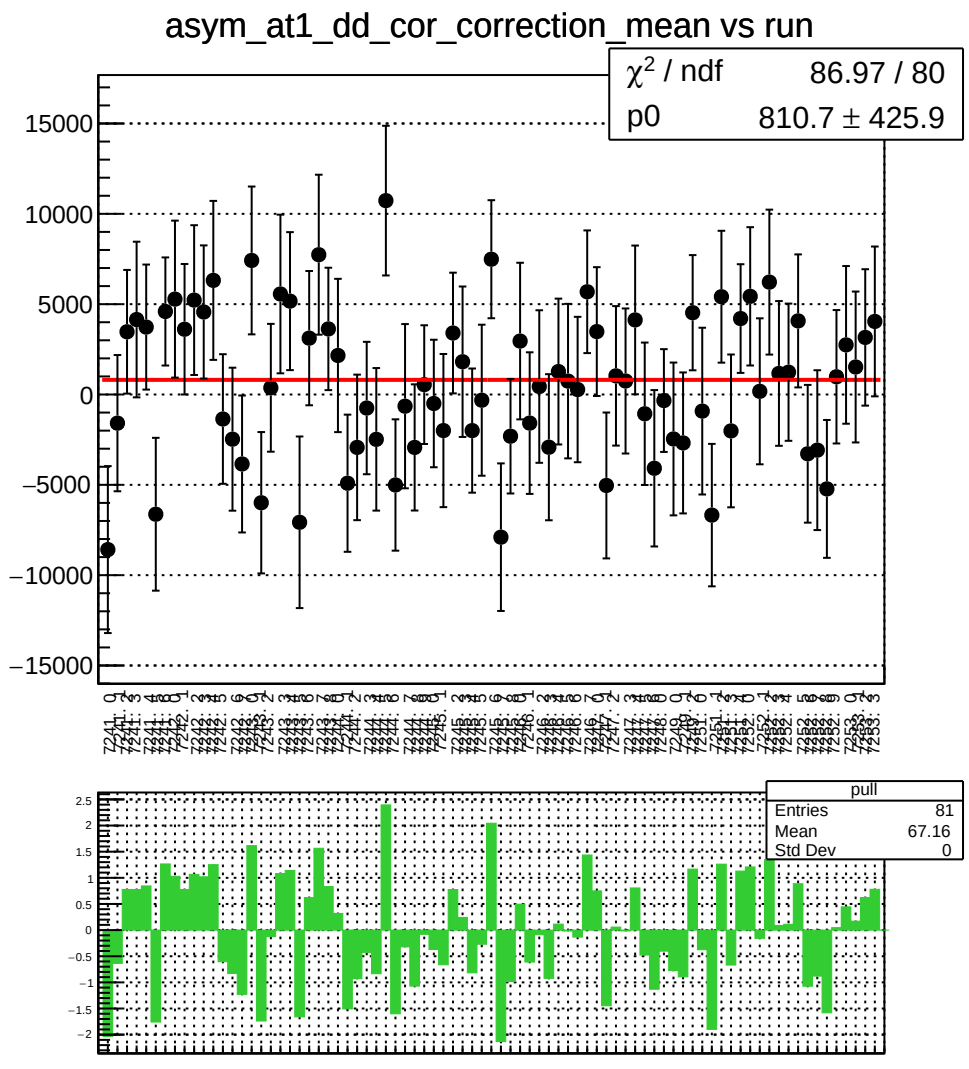

pull1D
Entries 81
Mean −0.02232
Std Dev 1.036
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

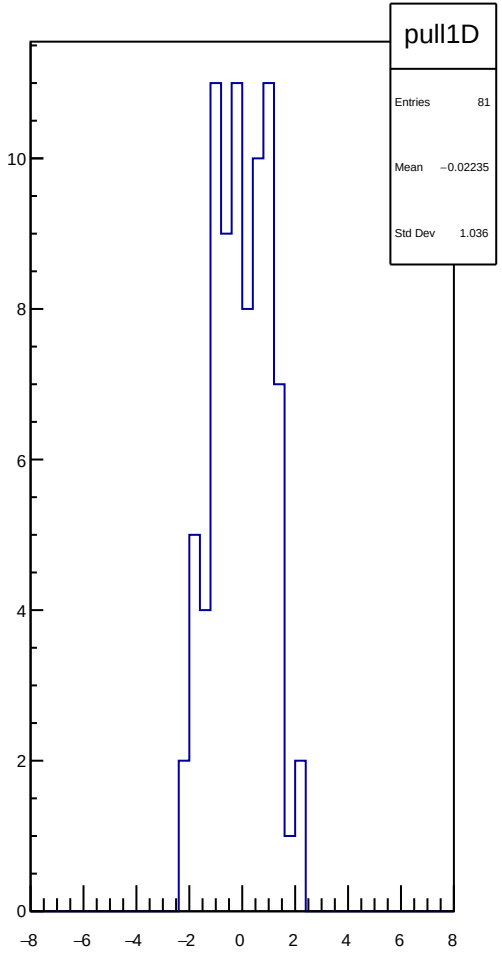

asym_at1_dd_reg_correction_rms vs run
χ² / ndf 9771 / 80
p0 373.7 ± 0.3012
460
440
420
400
380
360
340
320
300

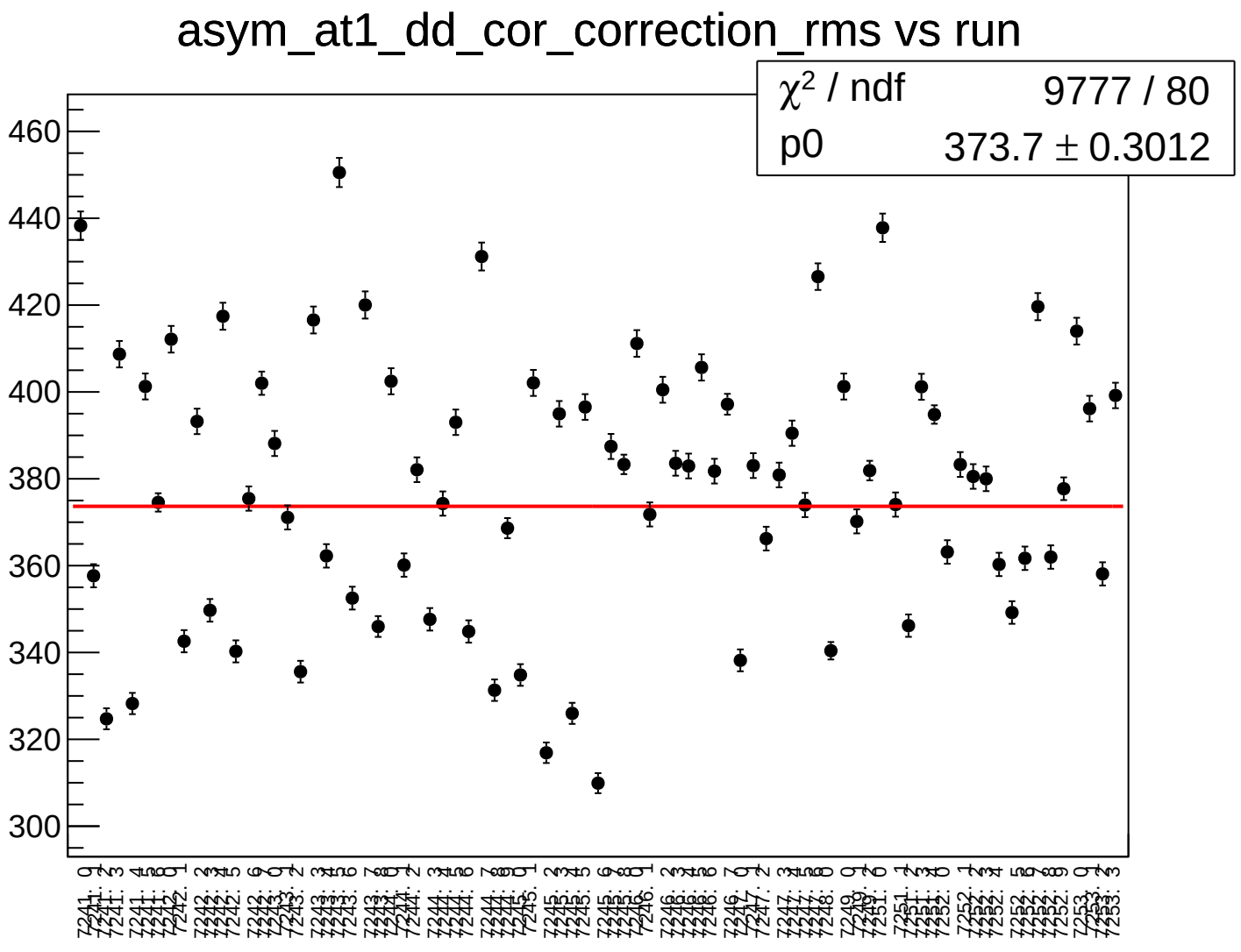

cor_asym_at1_dd_mean vs run
χ² / ndf 73.32 / 80
p0 −1561 ± 2055
pull
Entries 81
Mean −482.5
Std Dev 0

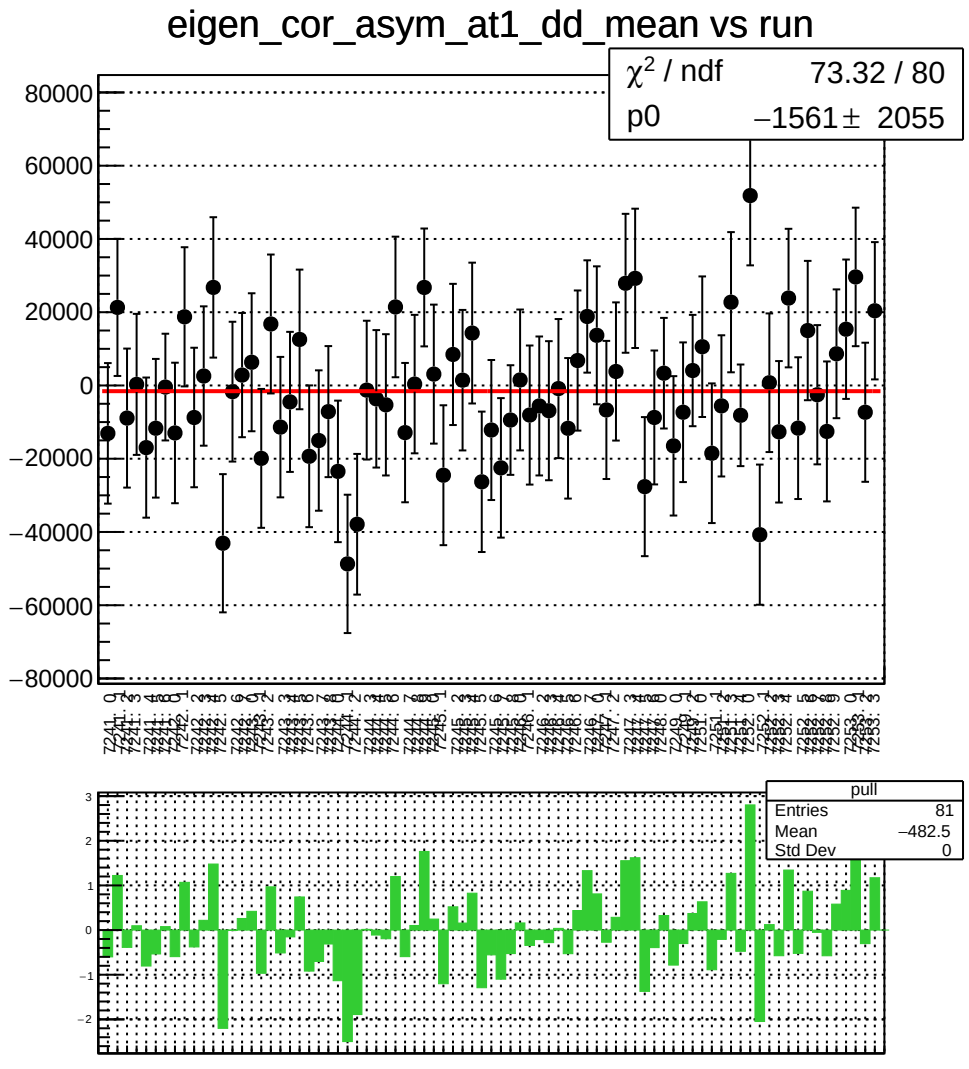

pull1D
Entries 81
Mean −0.008284
Std Dev 0.9514

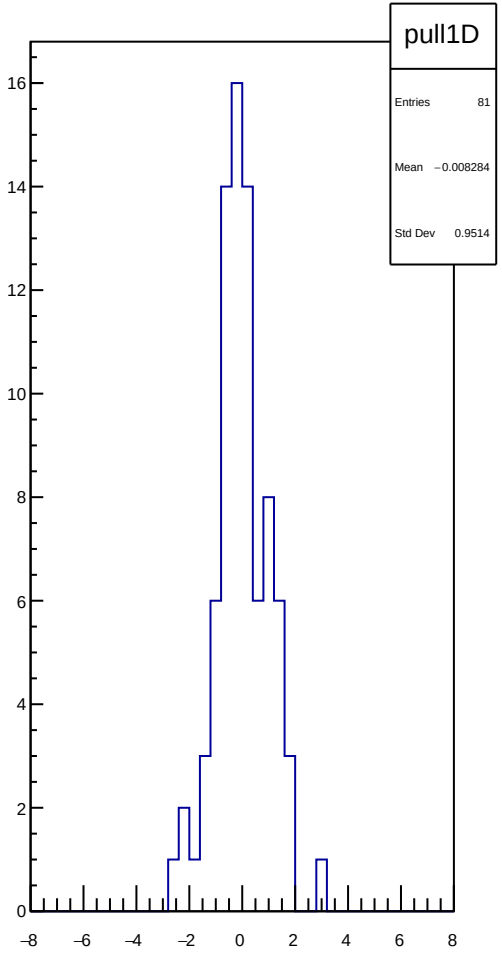

cor_asym_at1_dd_rms vs run
χ^2 / ndf 80.05 / 80
p0 1809 ± 1.453
1840
1820
1800
1780
1760

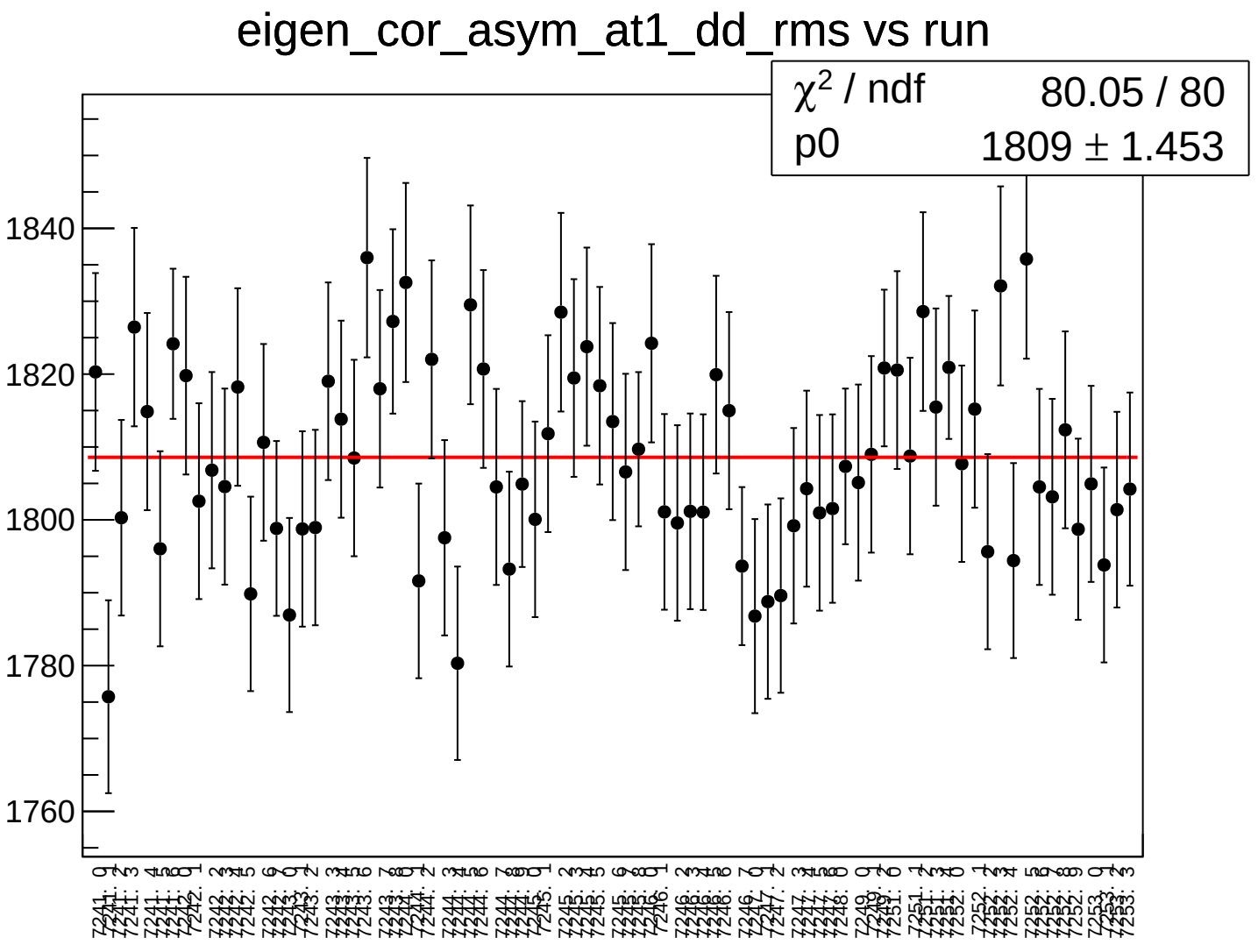

asym_at1_dd_cor_correction_mean vs run
χ² / ndf 86.97 / 80
p0 810.7 ± 425.9
pull
Entries 81
Mean 67.16
Std Dev 0

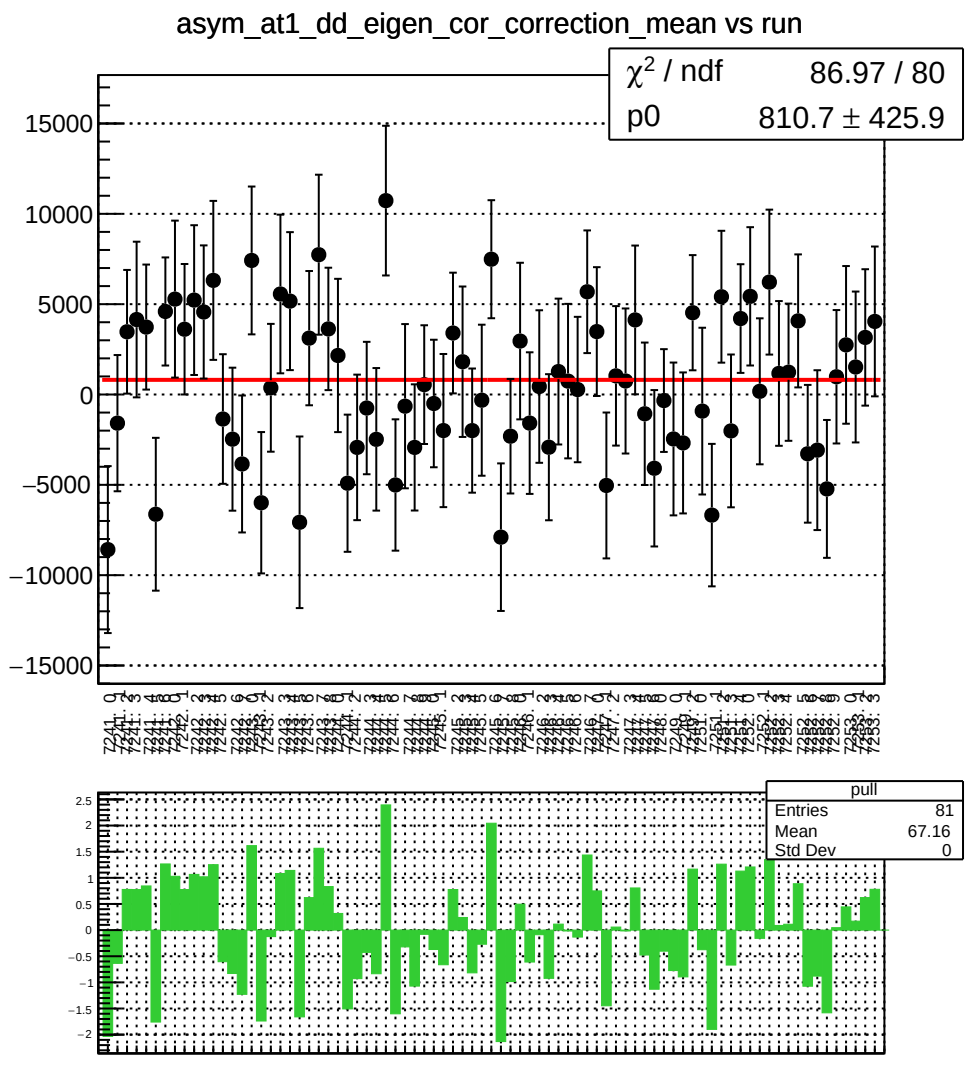

pull1D
Entries 81
Mean −0.02235
Std Dev 1.036

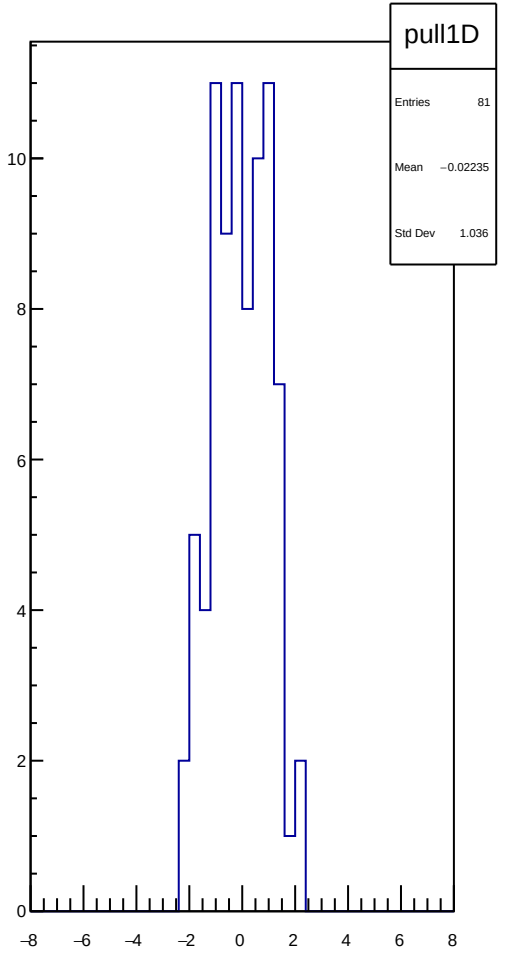

asym_at1_dd_cor_correction_rms vs run
χ² / ndf 9777 / 80
p0 373.7 ± 0.3012
460
440
420
400
380
360
340
320
300

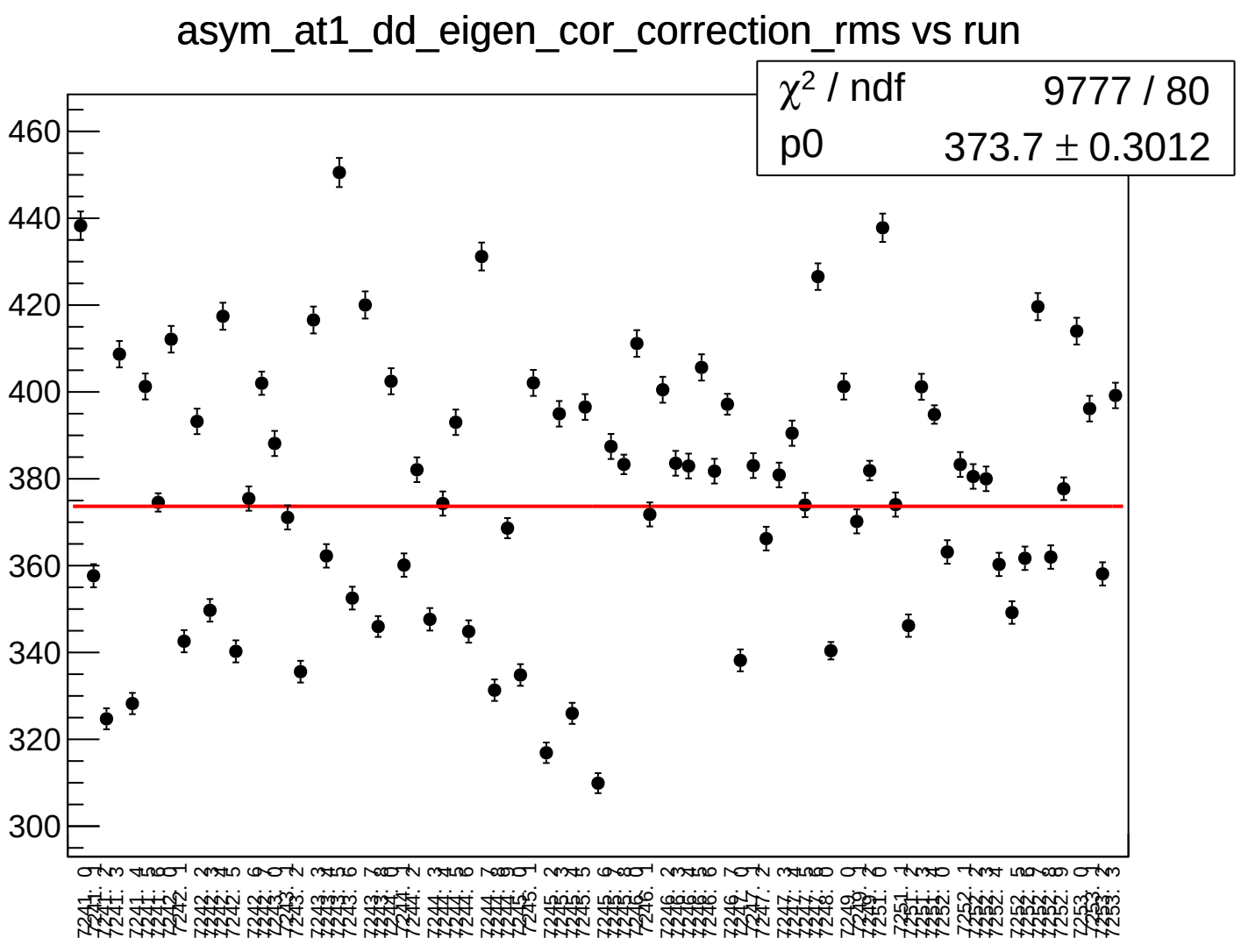

eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 73.32 / 80
p0 −1561 ± 2055
pull
Entries 81
Mean −482.5
Std Dev 0

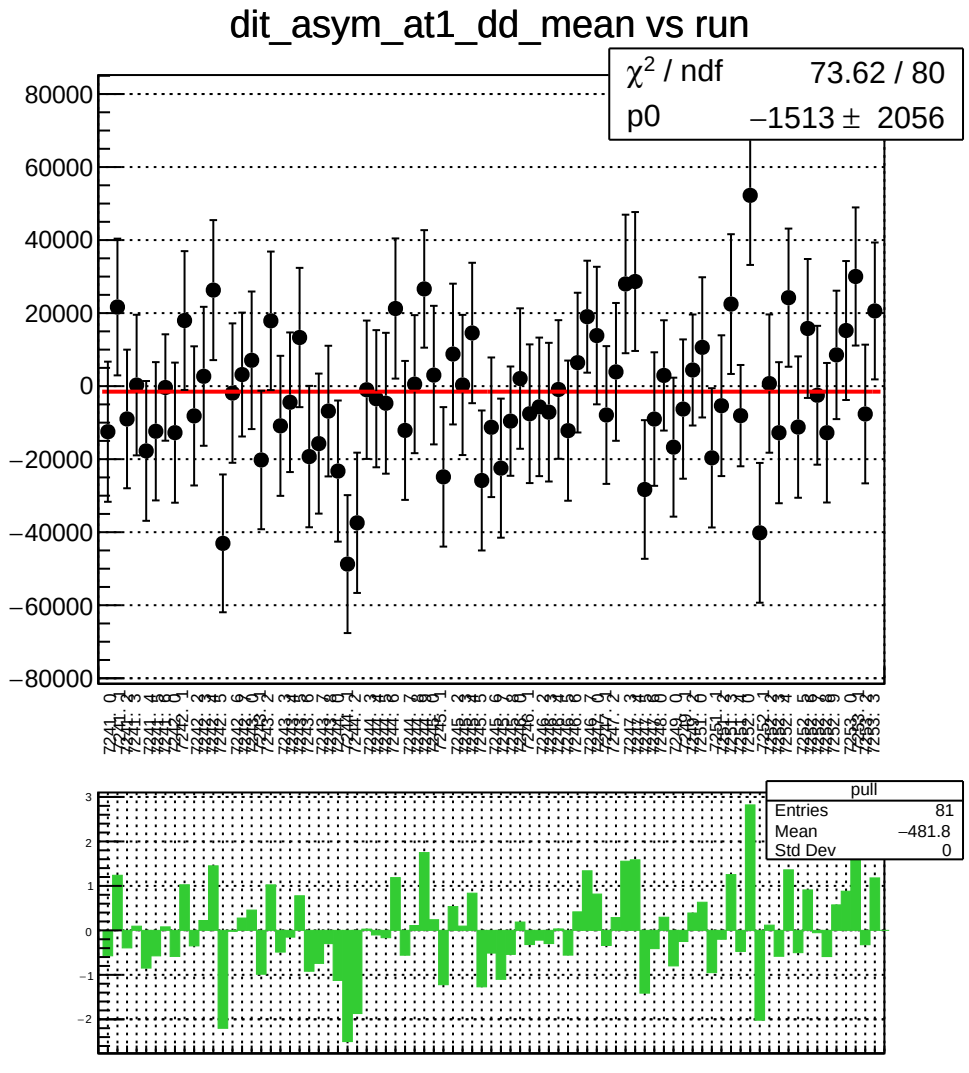

pull1D
Entries 81
Mean −0.008284
Std Dev 0.9514

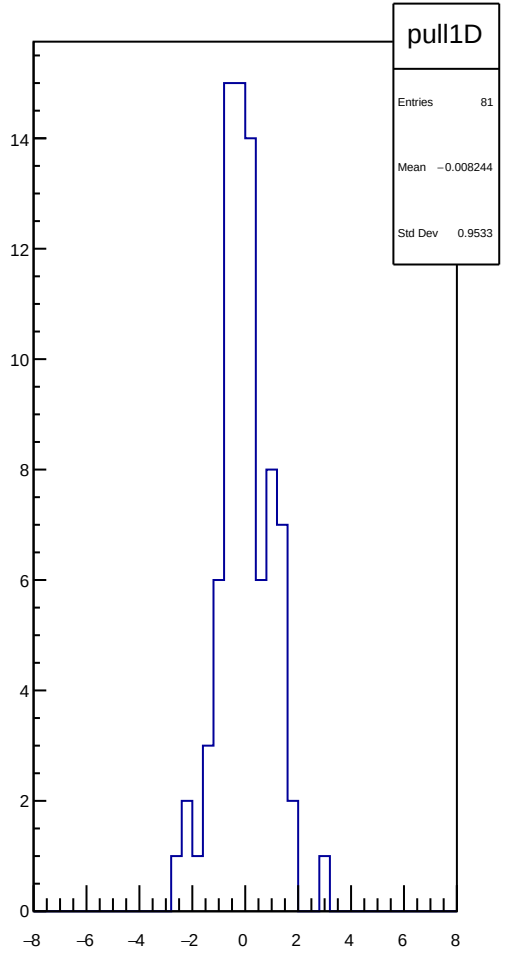

eigen_cor_asym_at1_dd_rms vs run
χ² / ndf 80.05 / 80
p0 1809 ± 1.453
1840
1820
1800
1780
1760

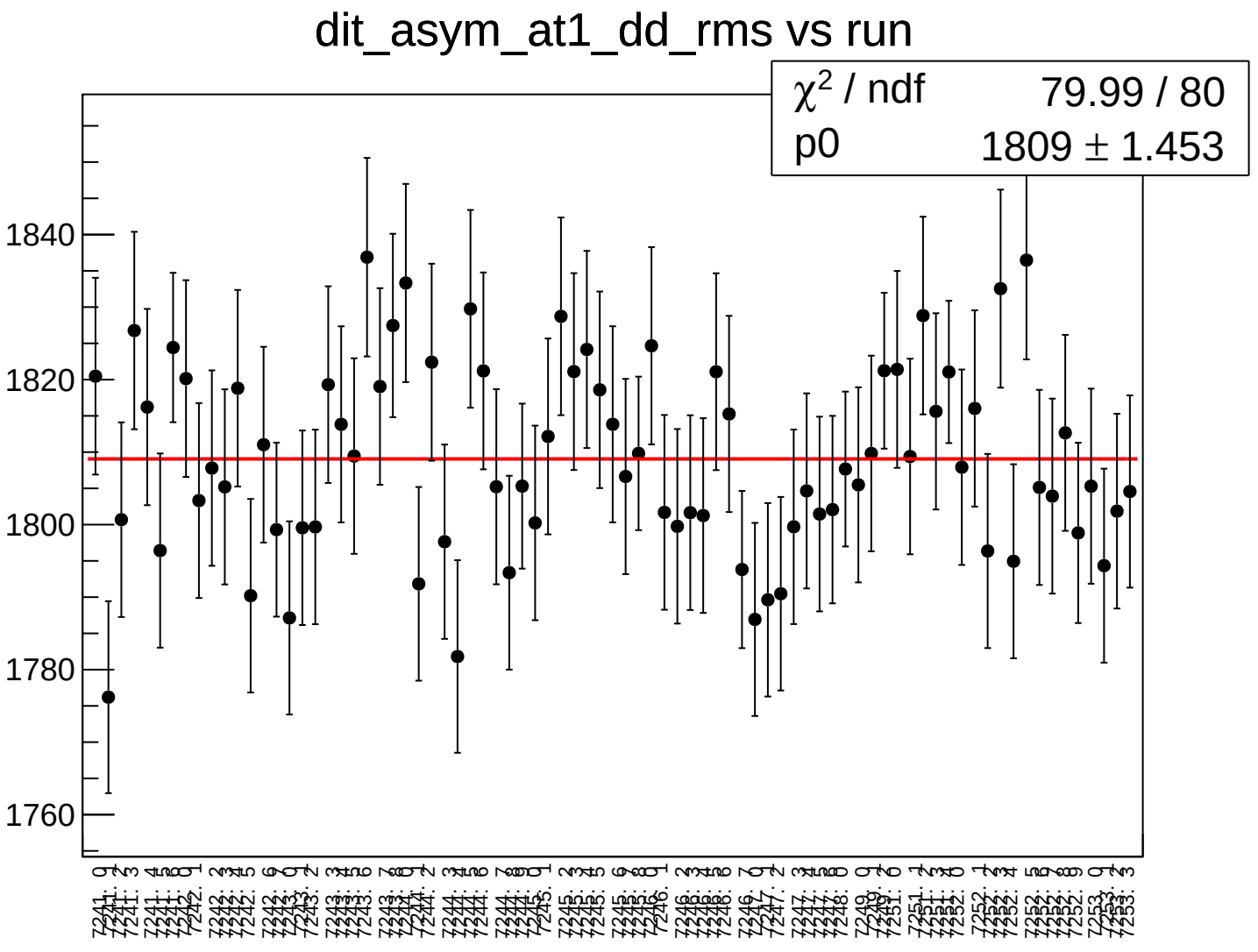

asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 86.97 / 80
p0 810.7 ± 425.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean 67.16
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

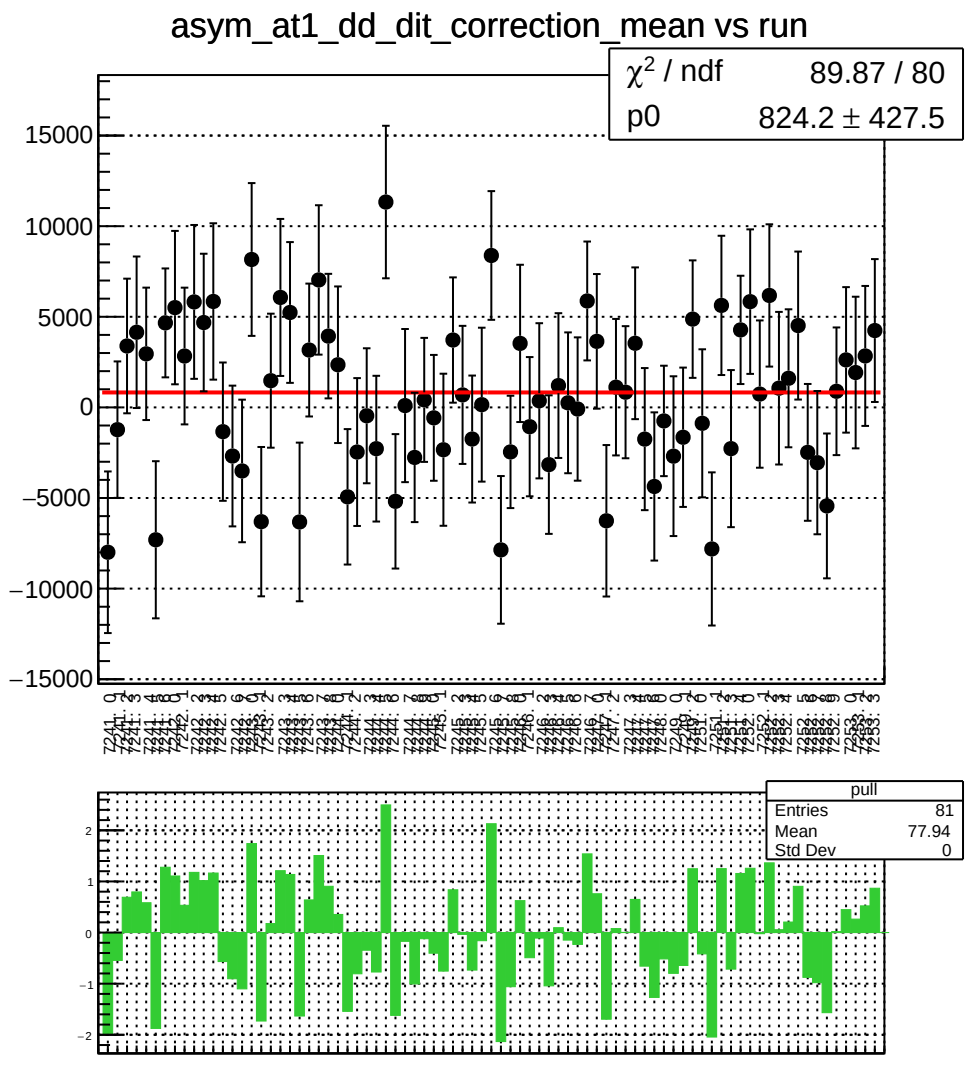

pull1D
Entries 81
Mean −0.02235
Std Dev 1.036
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

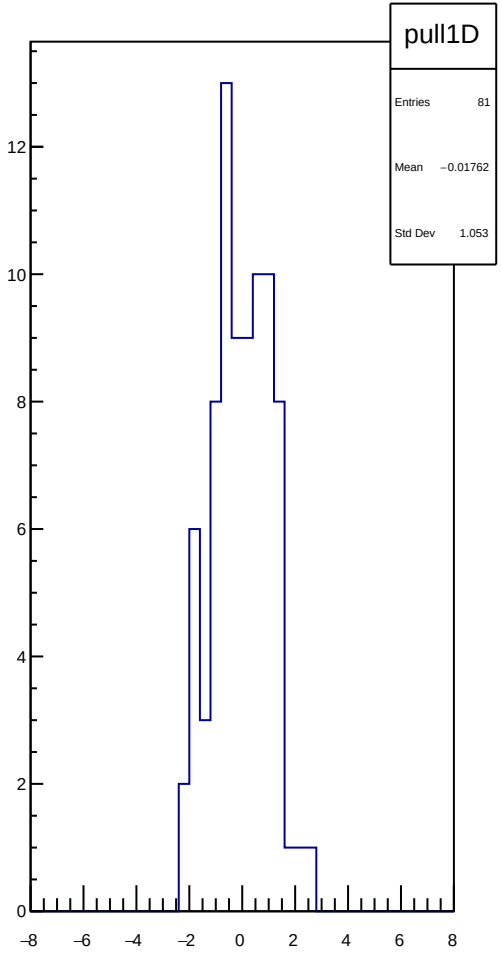

asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 9777 / 80
p0 373.7 ± 0.3012
460
440
420
400
380
360
340
320
300

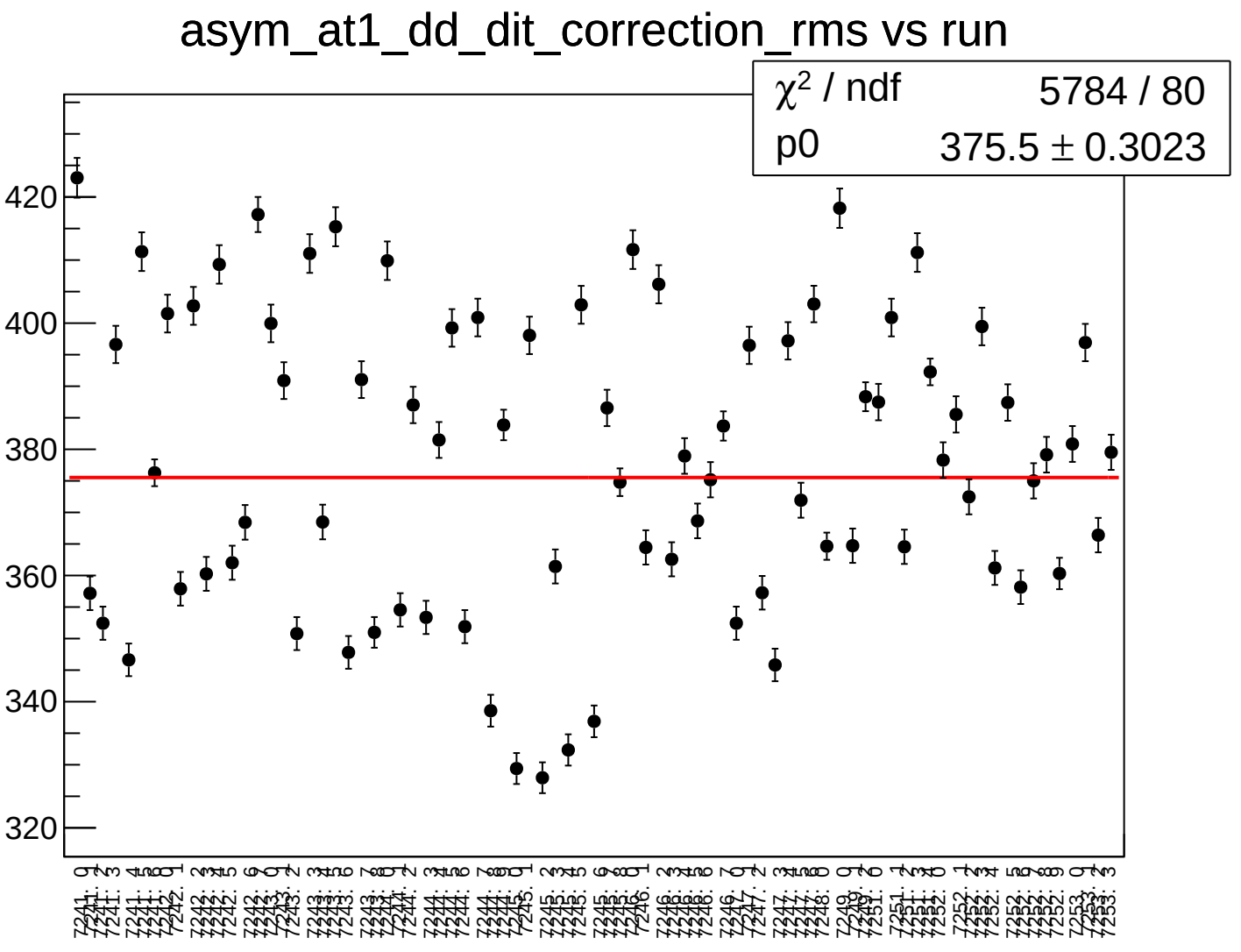

dit_asym_at1_dd_mean vs run
χ² / ndf 73.62 / 80
p0 −1513 ± 2056
pull
Entries 81
Mean −481.8
Std Dev 0

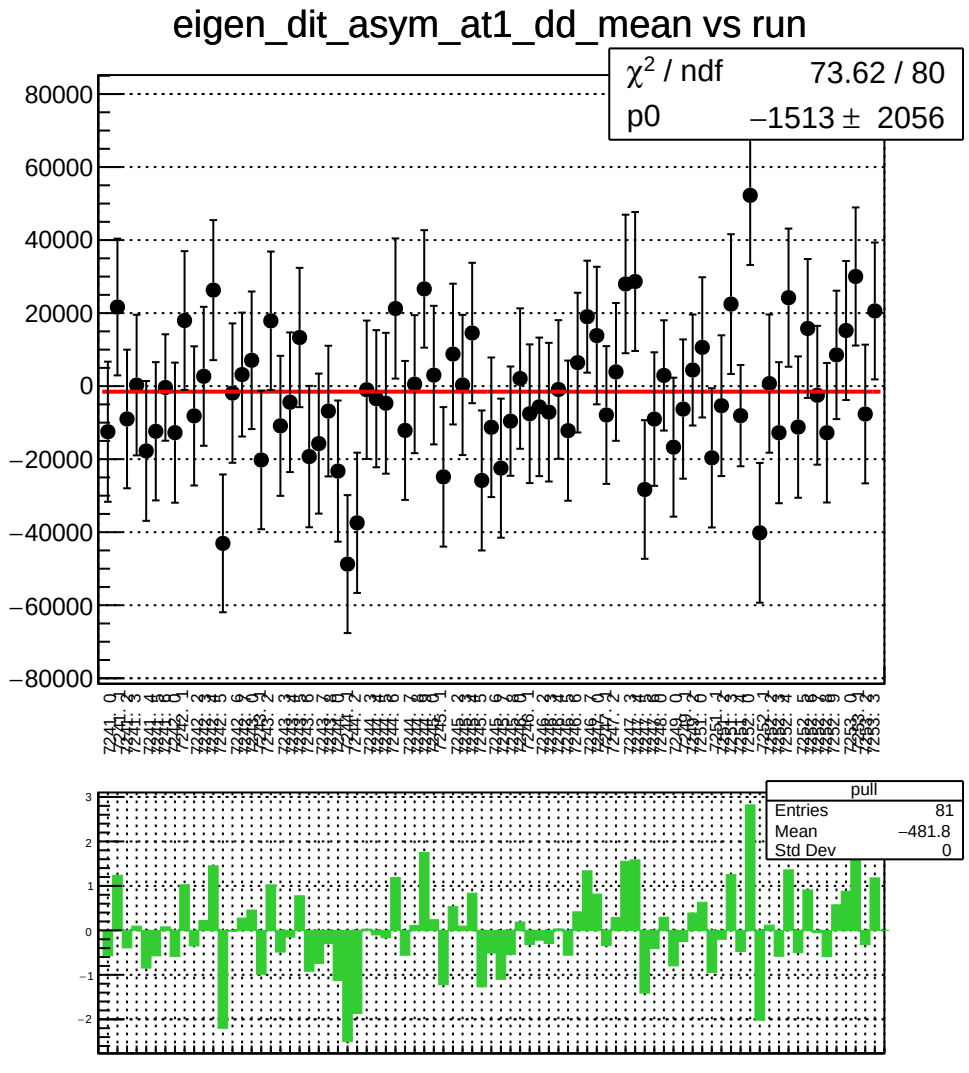

pull1D
Entries 81
Mean −0.008244
Std Dev 0.9533

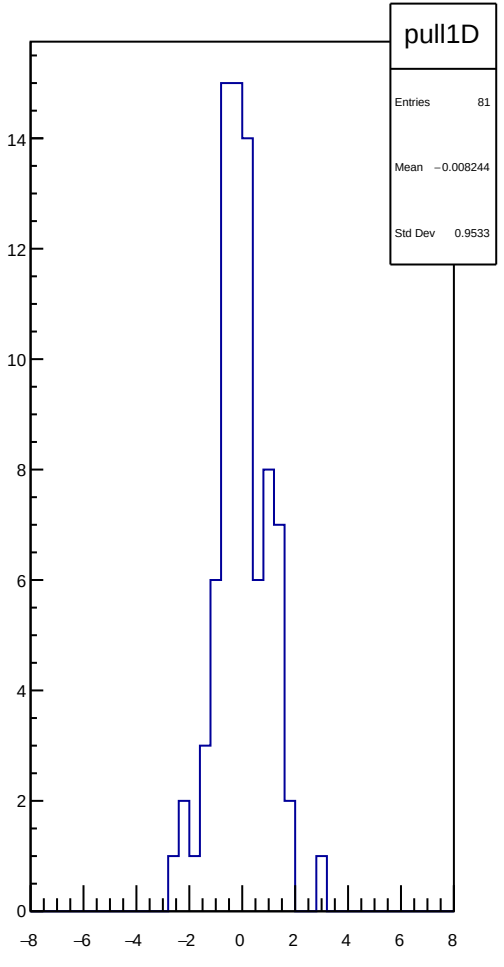

dit_asym_at1_dd_rms vs run
χ^2 / ndf 79.99 / 80
p0 1809 ± 1.453
1840
1820
1800
1780
1760

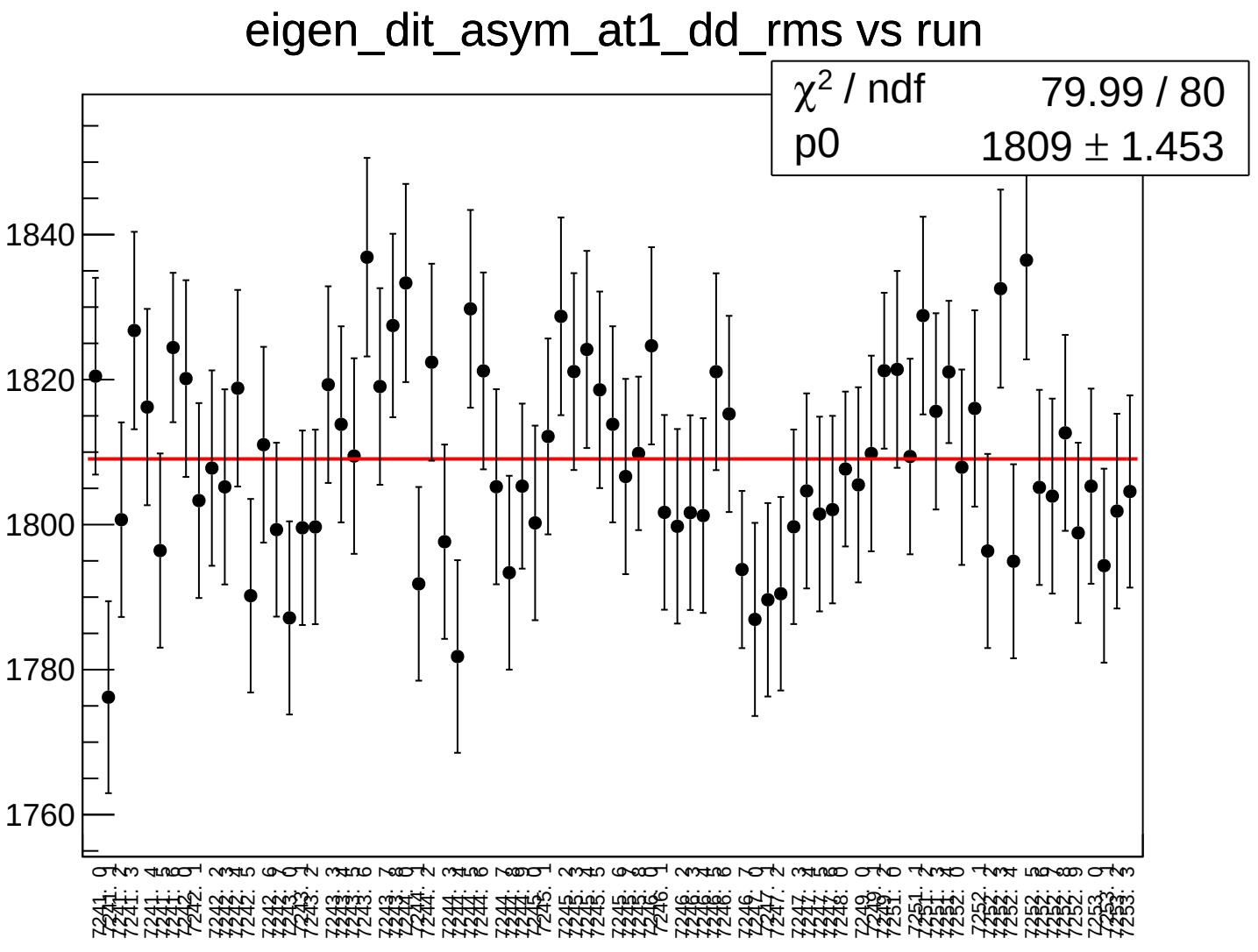

asym_at1_dd_dit_correction_mean vs run
χ² / ndf 89.87 / 80
p0 824.2 ± 427.5
pull
Entries 81
Mean 77.94
Std Dev 0

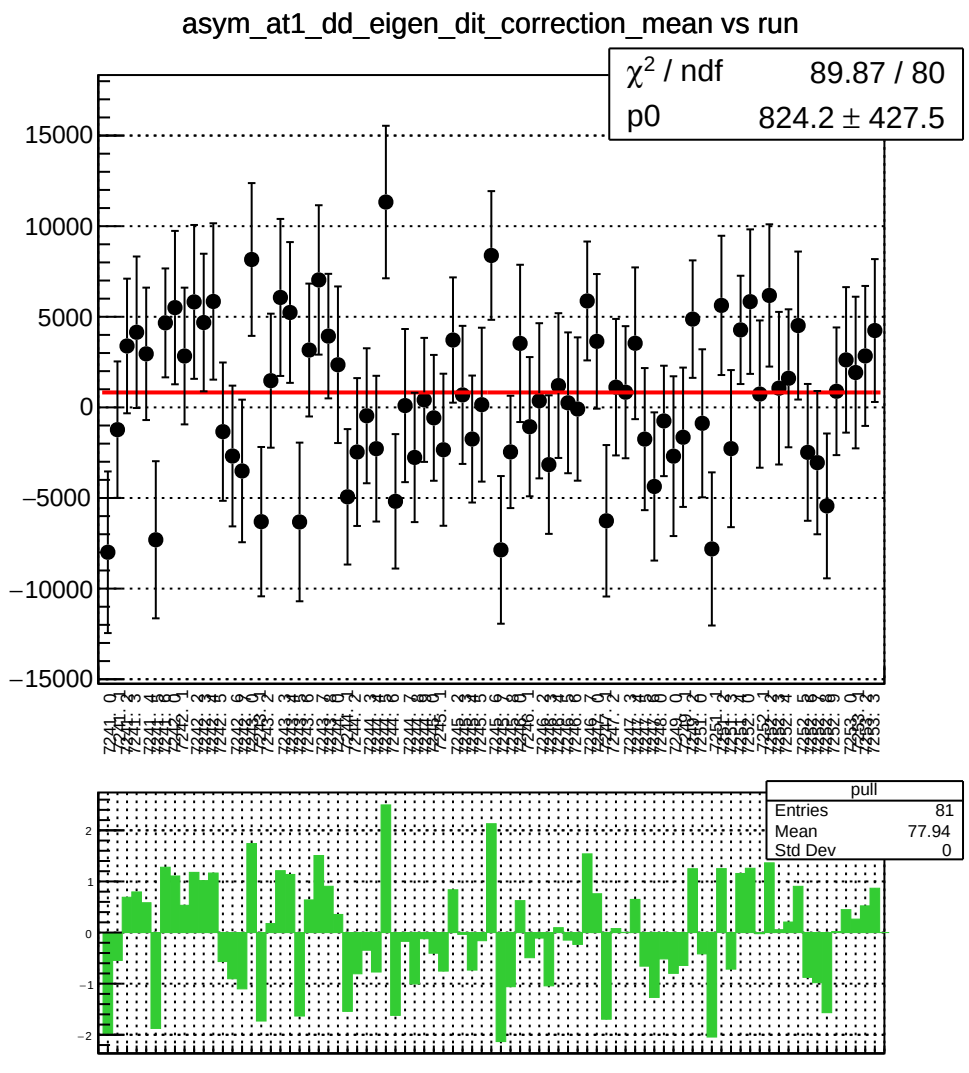

pull1D
Entries 81
Mean −0.01762
Std Dev 1.053

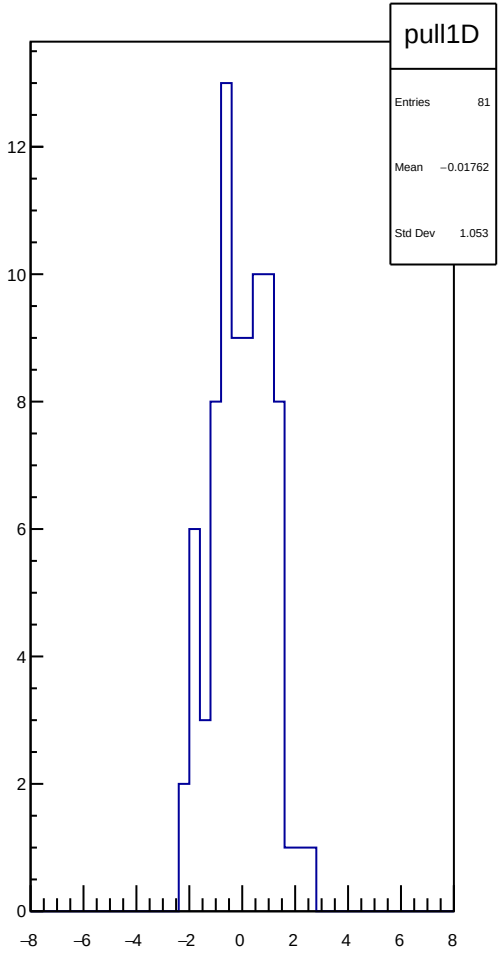

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 5784 / 80
p0 375.5 ± 0.3023
420
400
380
360
340
320

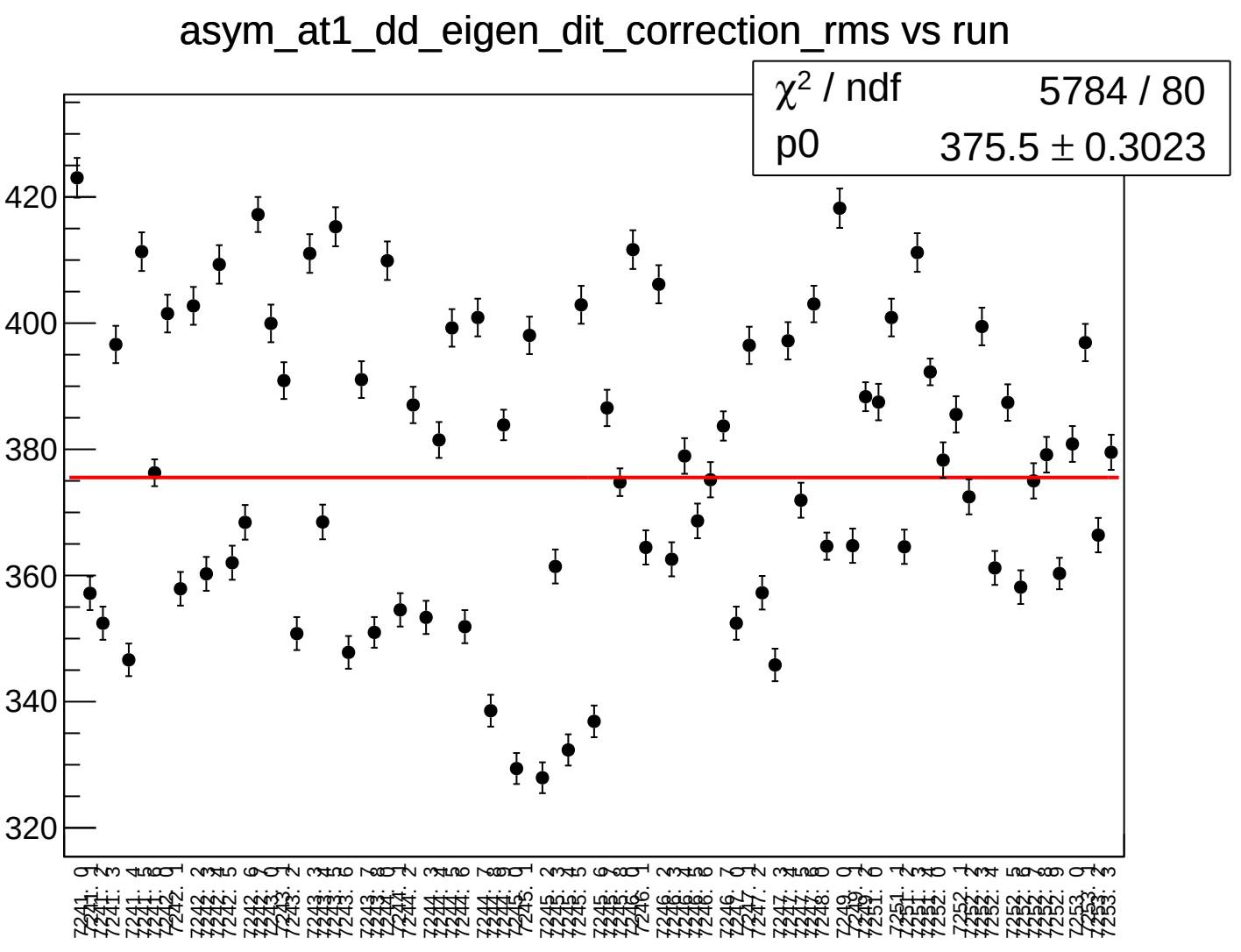

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 73.62 / 80
p0 −1513 ± 2056
pull
Entries 81
Mean −481.8
Std Dev 0

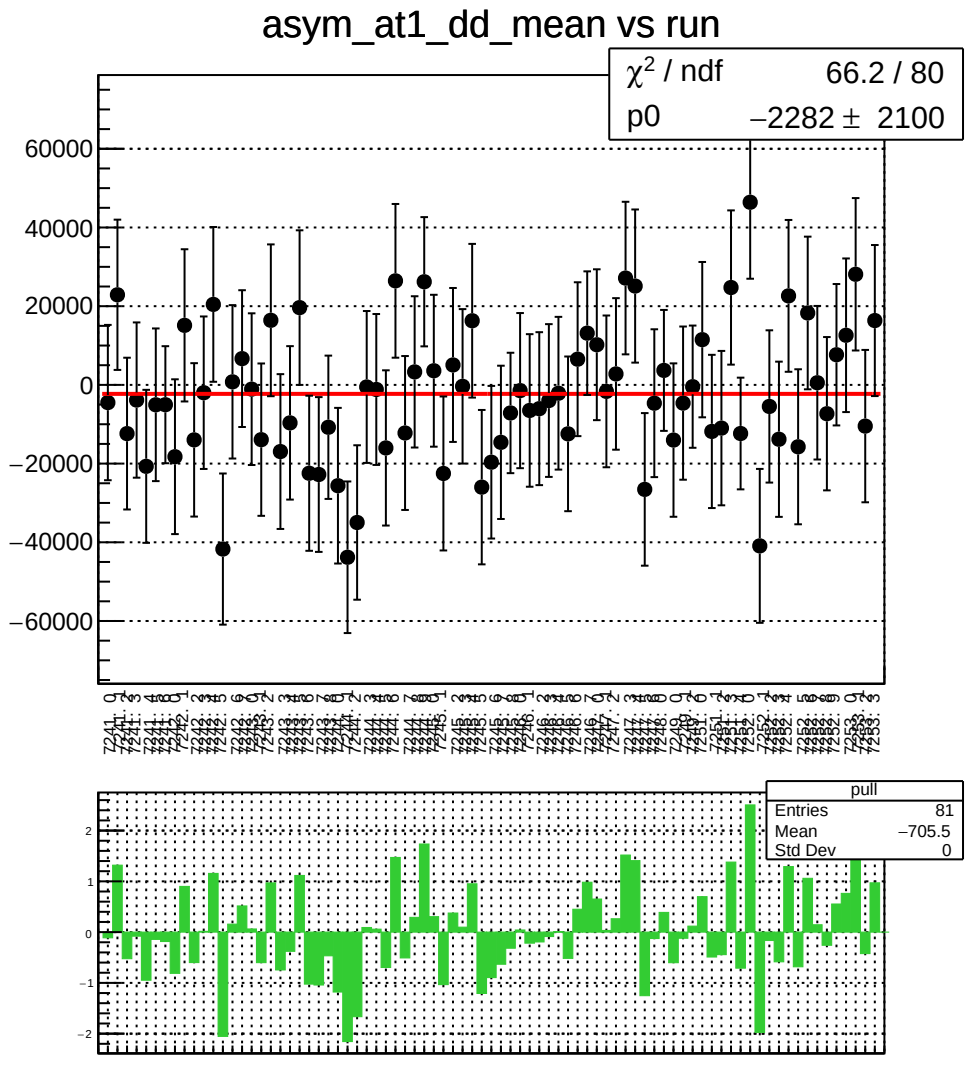

pull1D
Entries 81
Mean −0.008244
Std Dev 0.9533

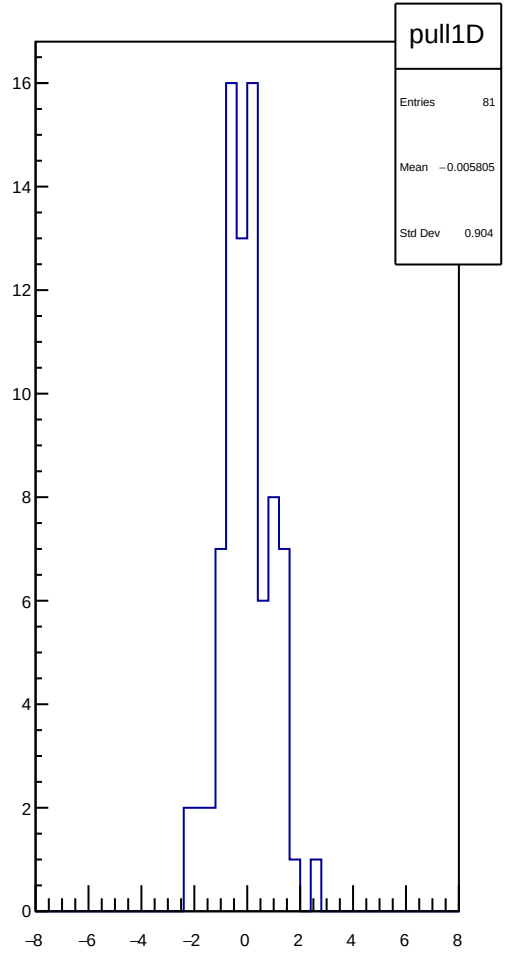

eigen_dit_asym_at1_dd_rms vs run
χ² / ndf 79.99 / 80
p0 1809 ± 1.453
1840
1820
1800
1780
1760

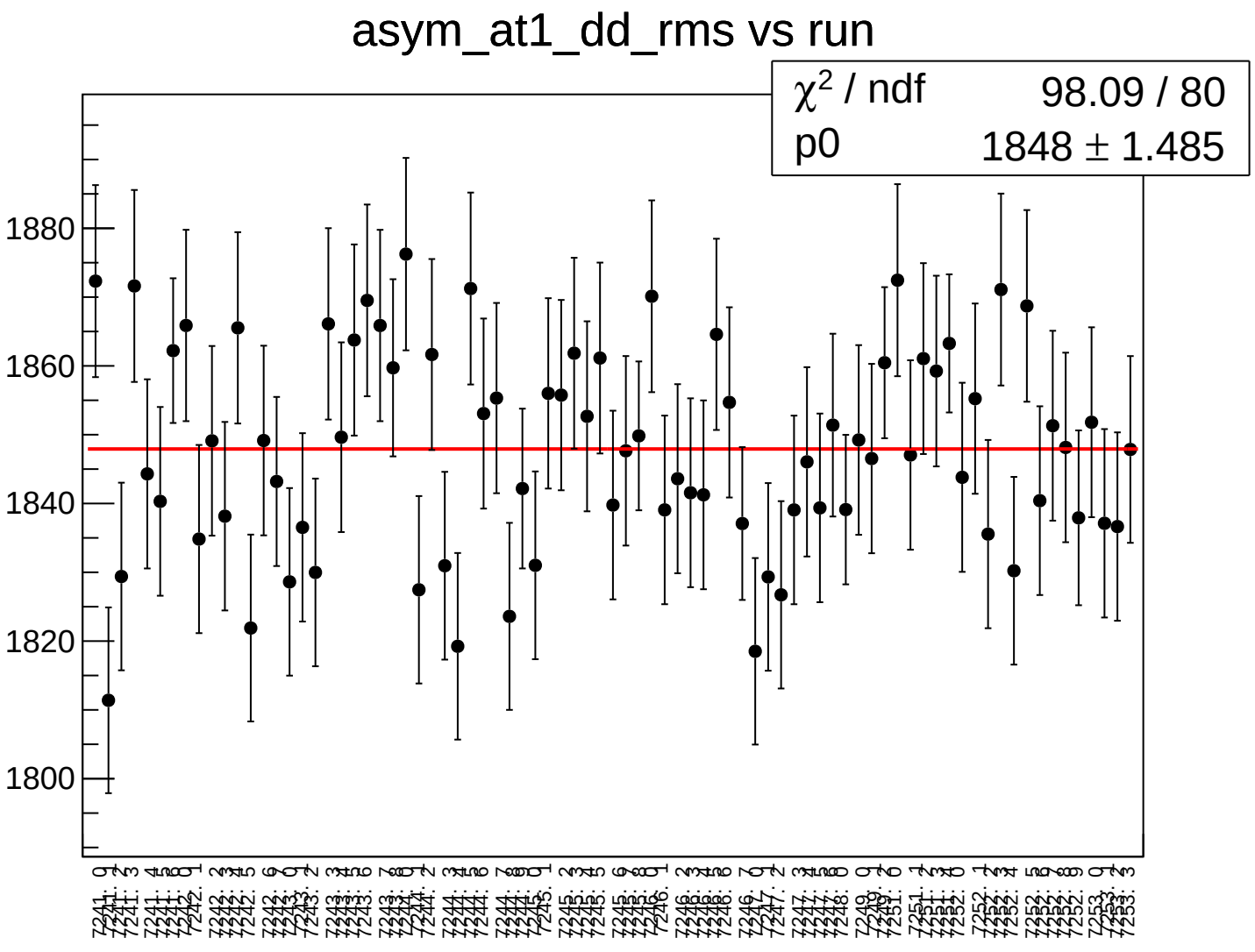

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 89.87 / 80
p0 824.2 ± 427.5
pull
Entries 81
Mean 77.94
Std Dev 0

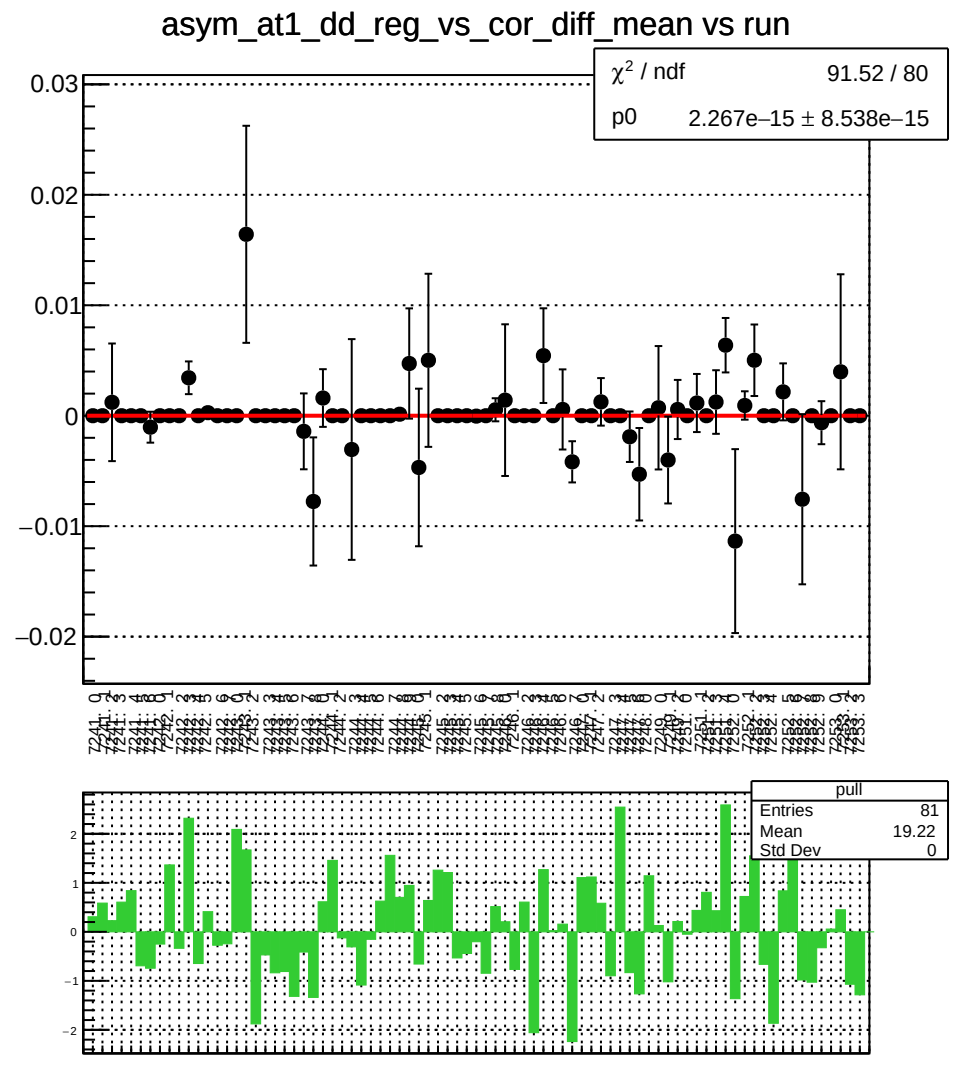

pull1D
Entries 81
Mean −0.01762
Std Dev 1.053

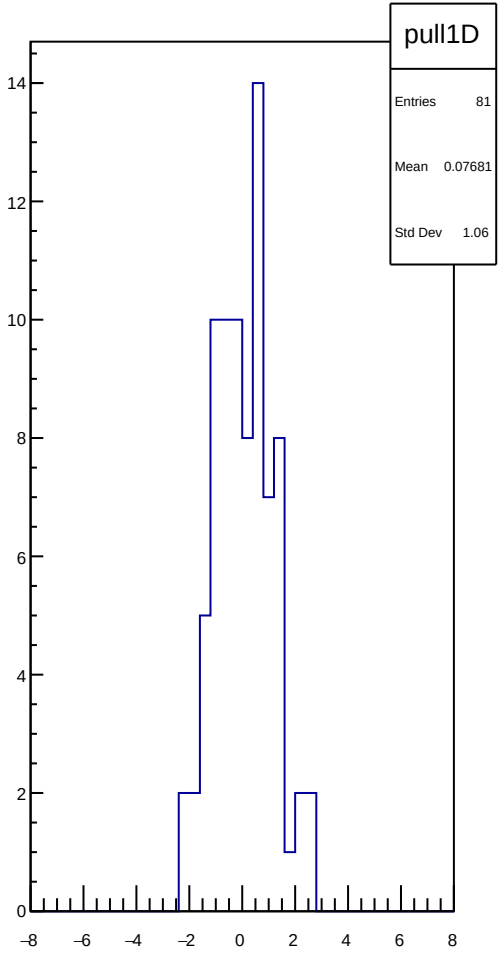

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 5784 / 80
p0 375.5 ± 0.3023
420
400
380
360
340
320

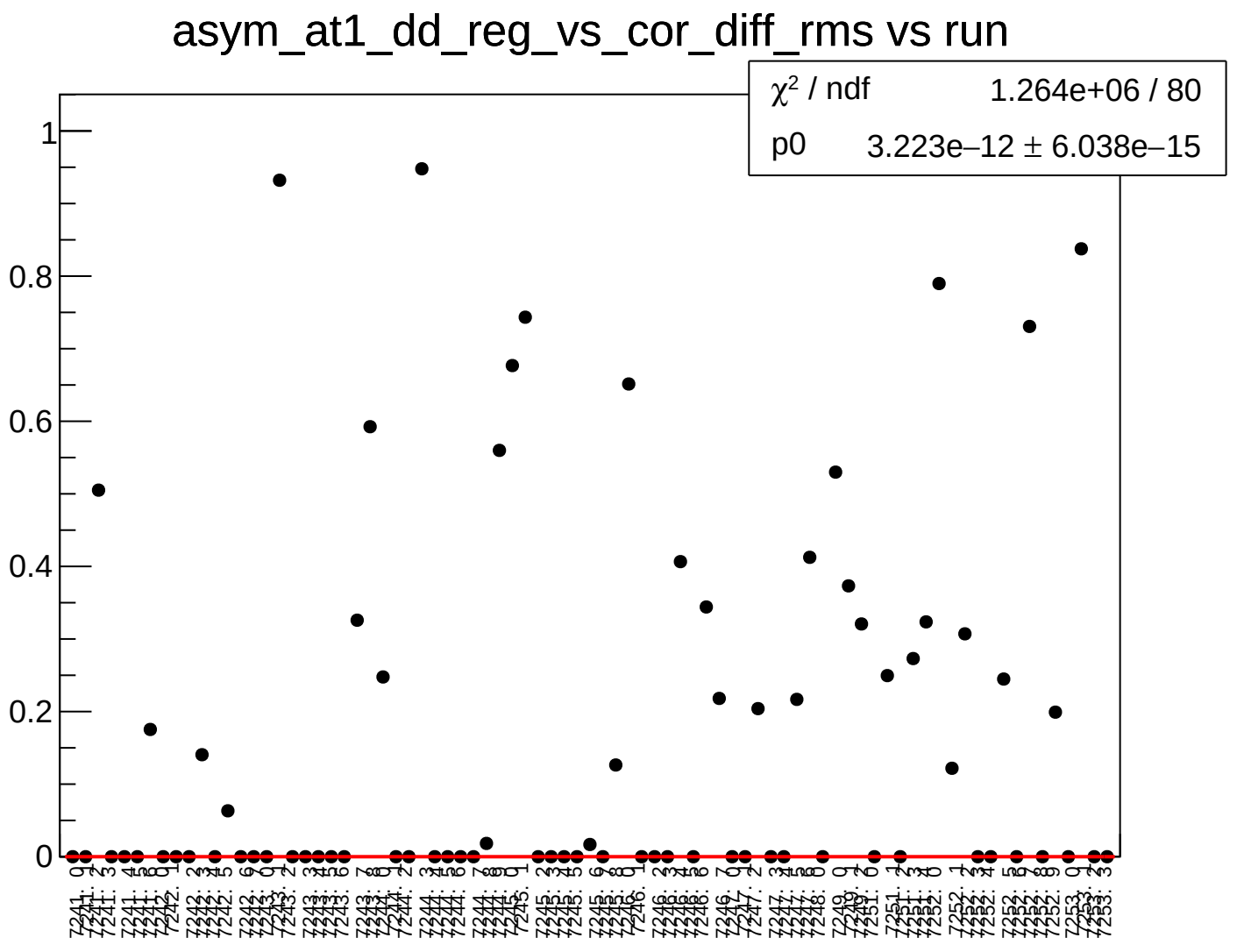

asym_at1_dd_mean vs run
χ² / ndf 66.2 / 80
p0 −2282 ± 2100
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −705.5
Std Dev 0
2
1
0
−1
−2

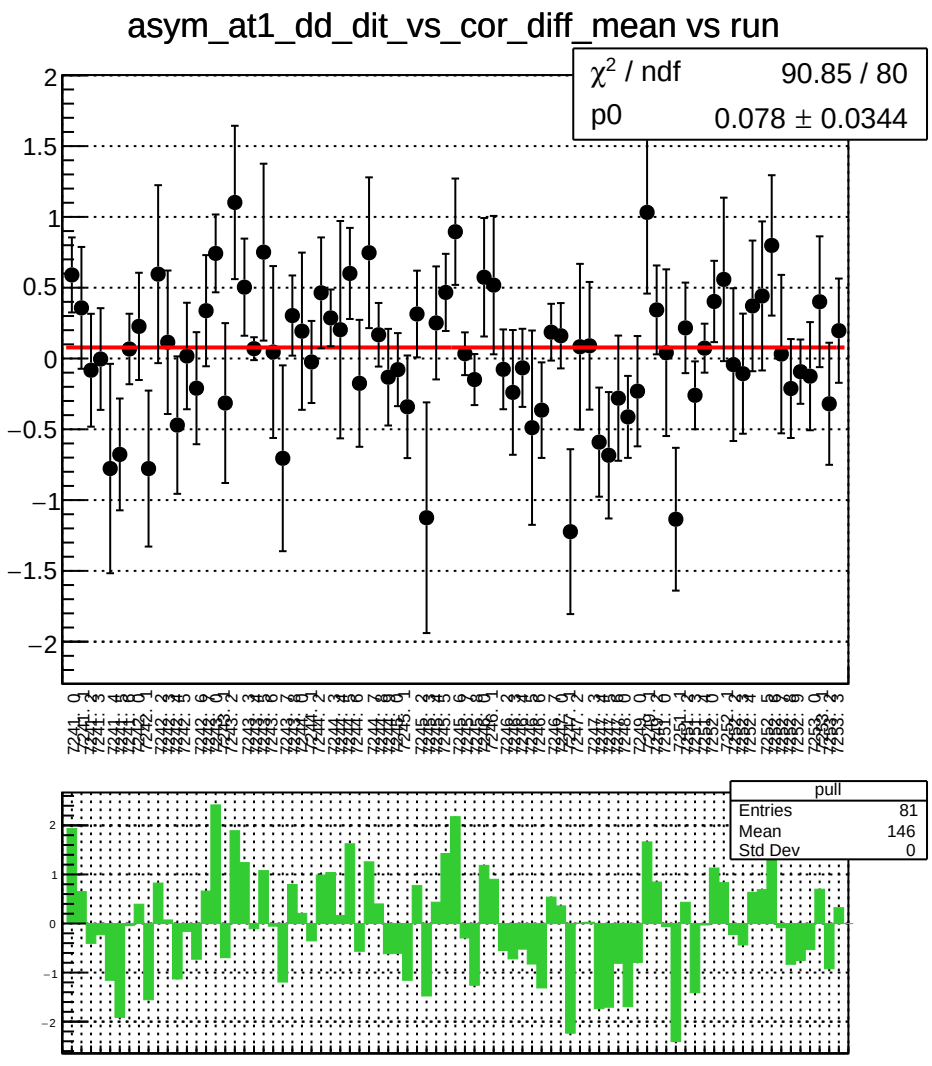

pull1D
Entries 81
Mean −0.005805
Std Dev 0.904
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

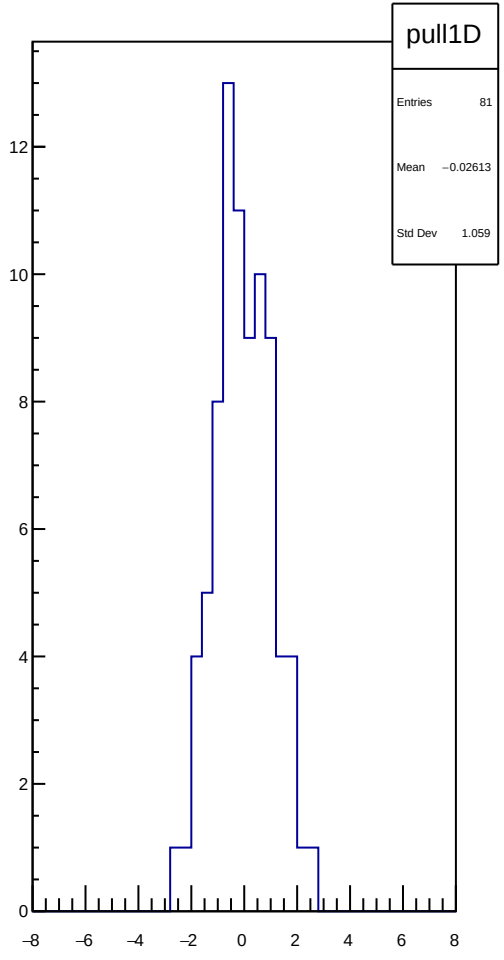

asym_at1_dd_rms vs run
χ² / ndf 98.09 / 80
p0 1848 ± 1.485
1880
1860
1840
1820
1800

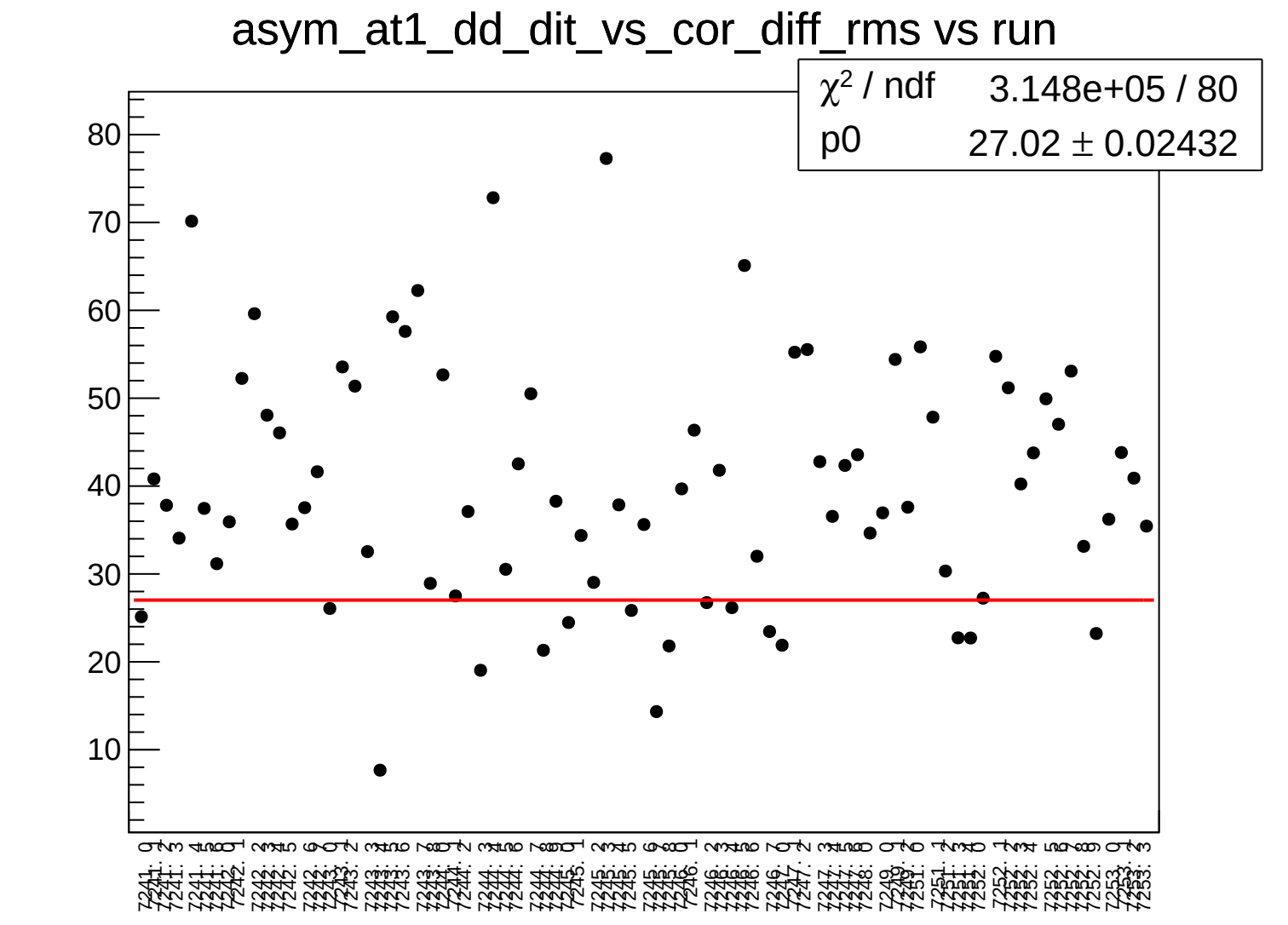

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 91.52 / 80
p0 2.267e−15 ± 8.538e−15
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 81
Mean 19.22
Std Dev 0
2
1
0
−1
−2

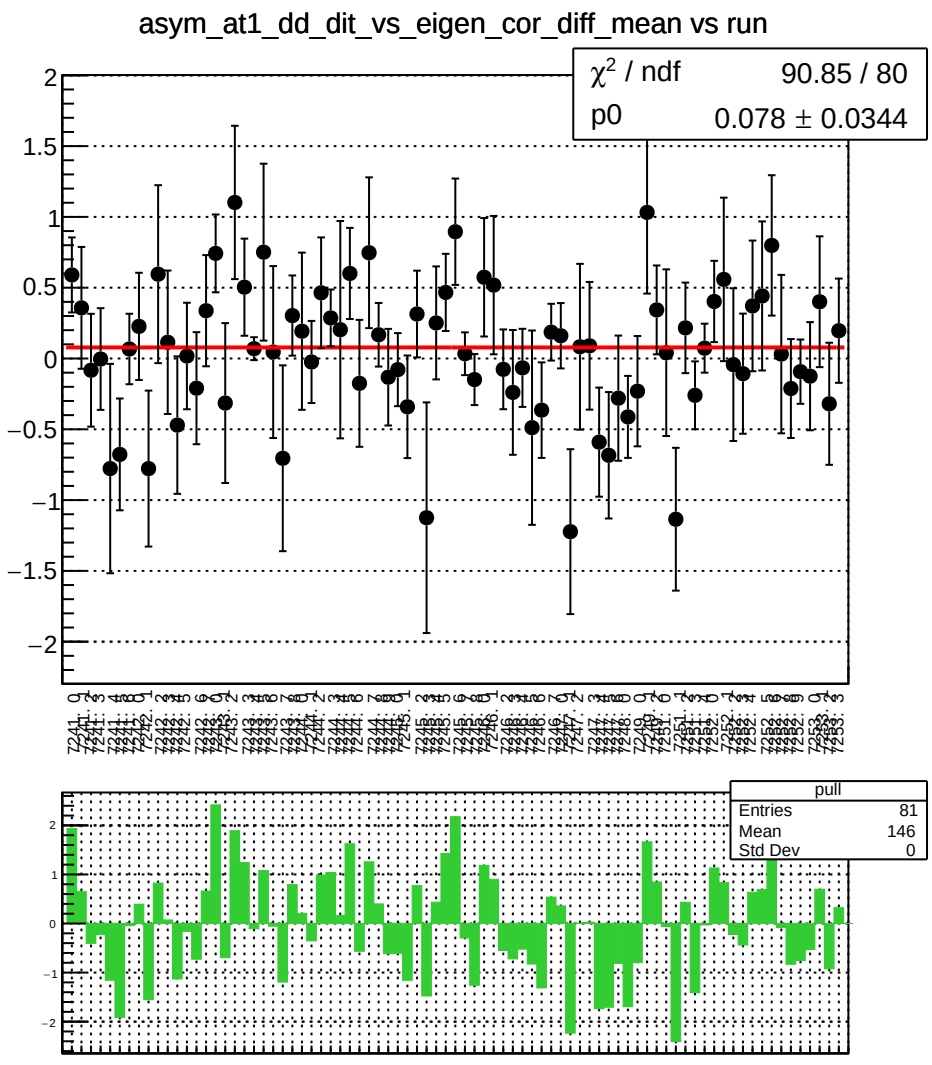

pull1D
Entries 81
Mean 0.07681
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

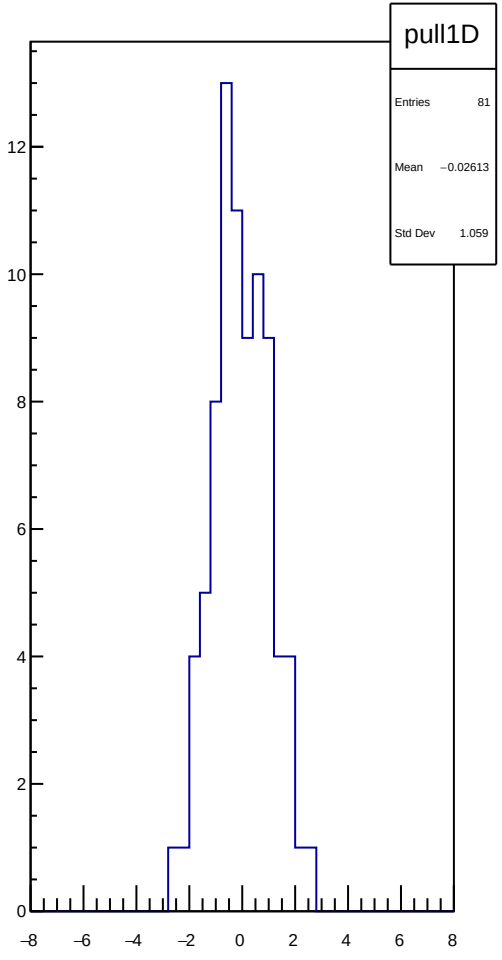

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.264e+06 / 80
p0 3.223e−12 ± 6.038e−15
1
0.8
0.6
0.4
0.2
0

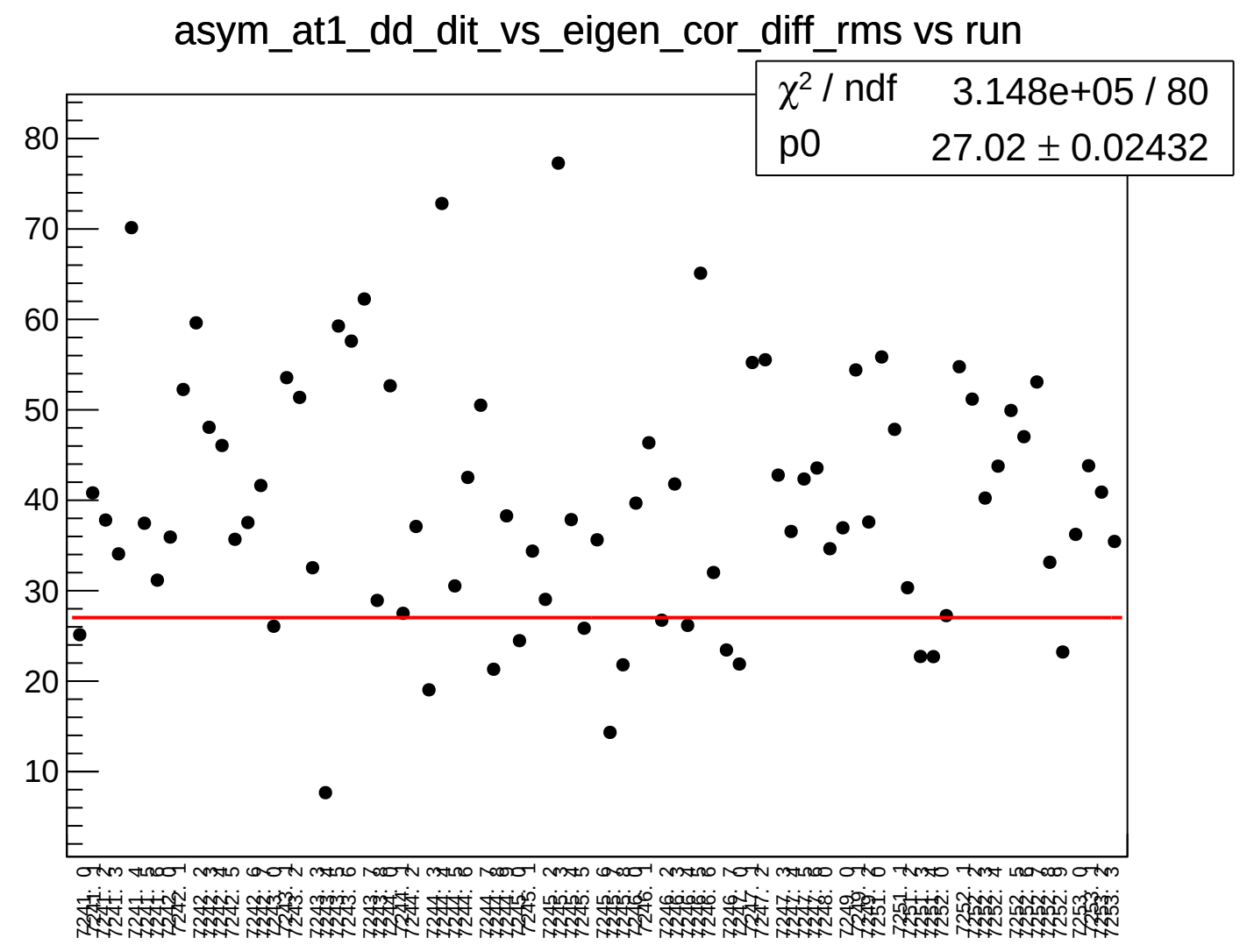

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 90.85 / 80
p0 0.078 ± 0.0344
pull
Entries 81
Mean 146
Std Dev 0

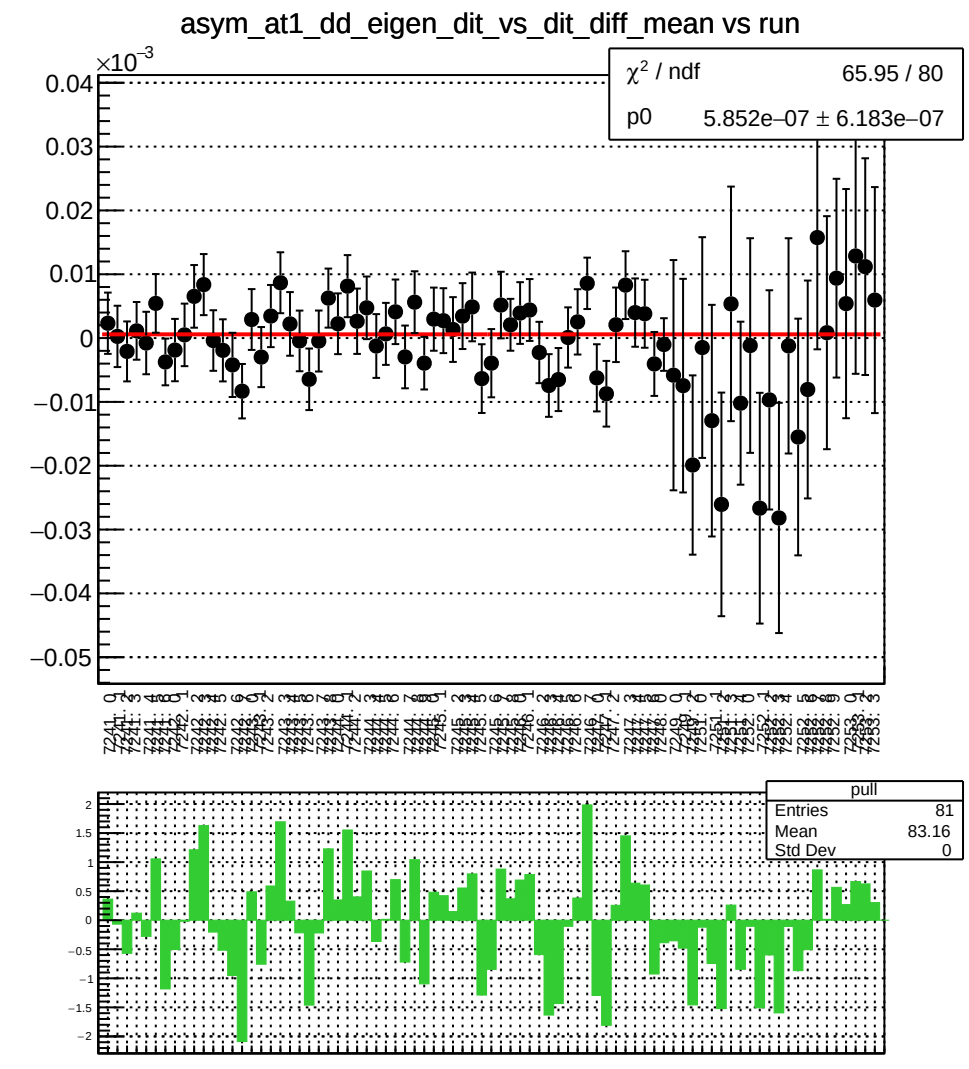

pull1D
Entries 81
Mean −0.02613
Std Dev 1.059

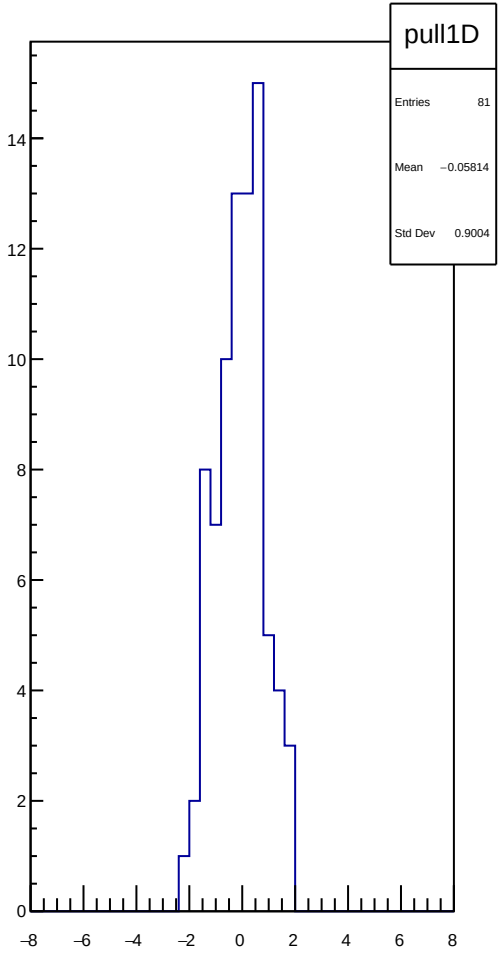

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.148e+05 / 80
p0 27.02 ± 0.02432
80
70
60
50
40
30
20
10

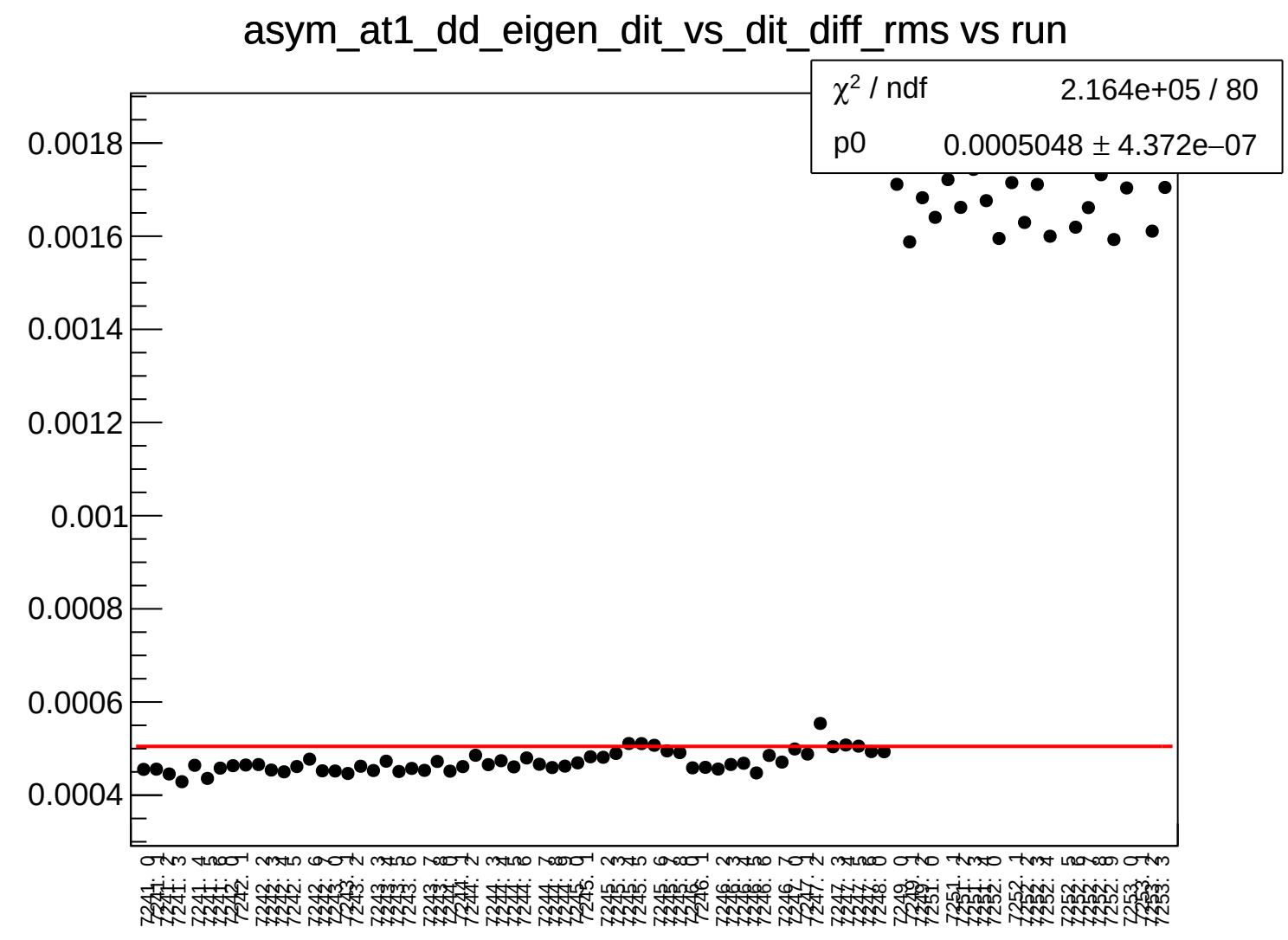

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.85 / 80
p0 0.078 ± 0.0344
pull
Entries 81
Mean 146
Std Dev 0

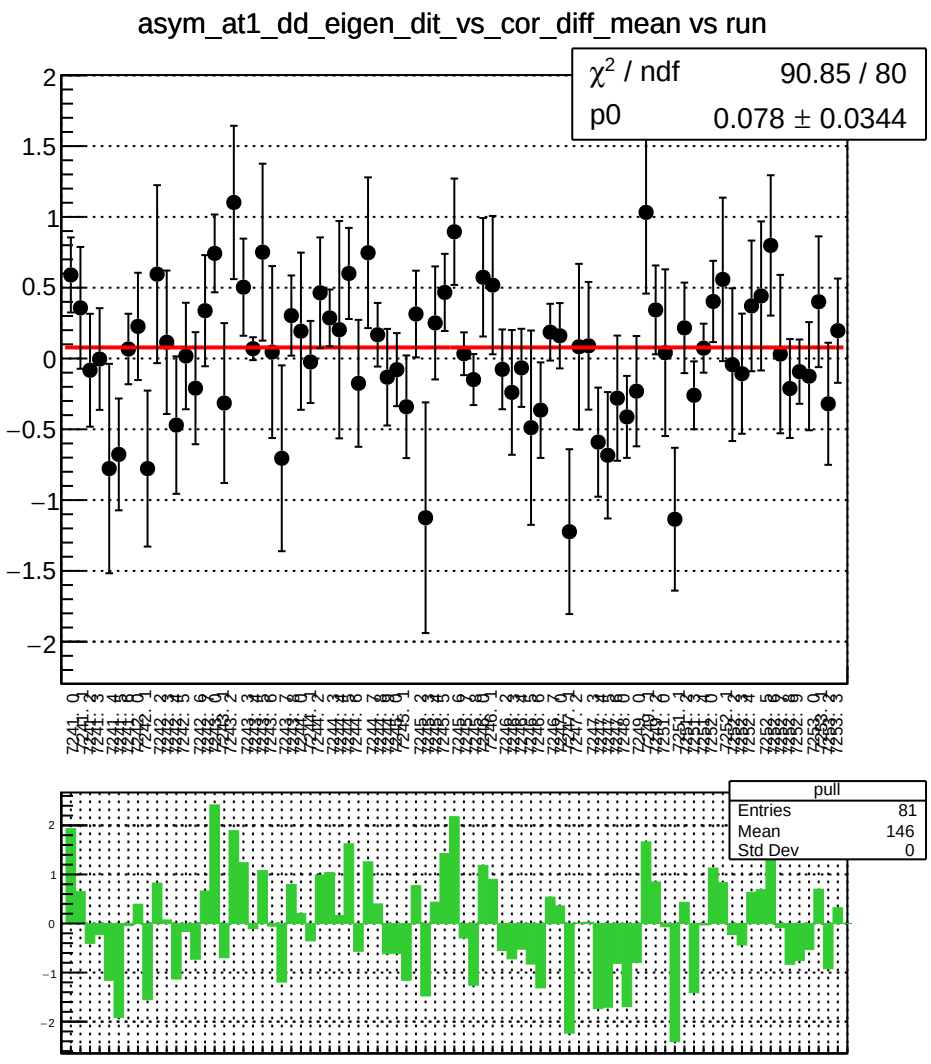

pull1D
Entries 81
Mean −0.02613
Std Dev 1.059

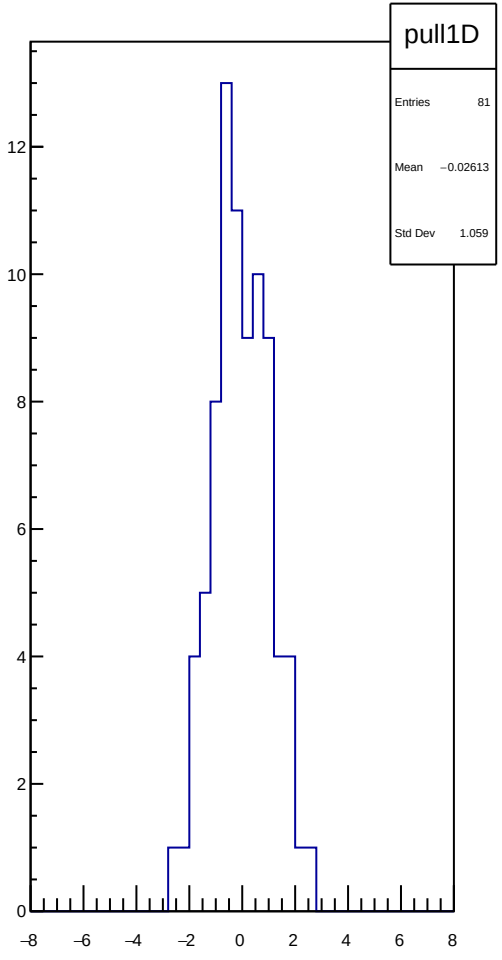

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.148e+05 / 80
p0 27.02 ± 0.02432
80
70
60
50
40
30
20
10

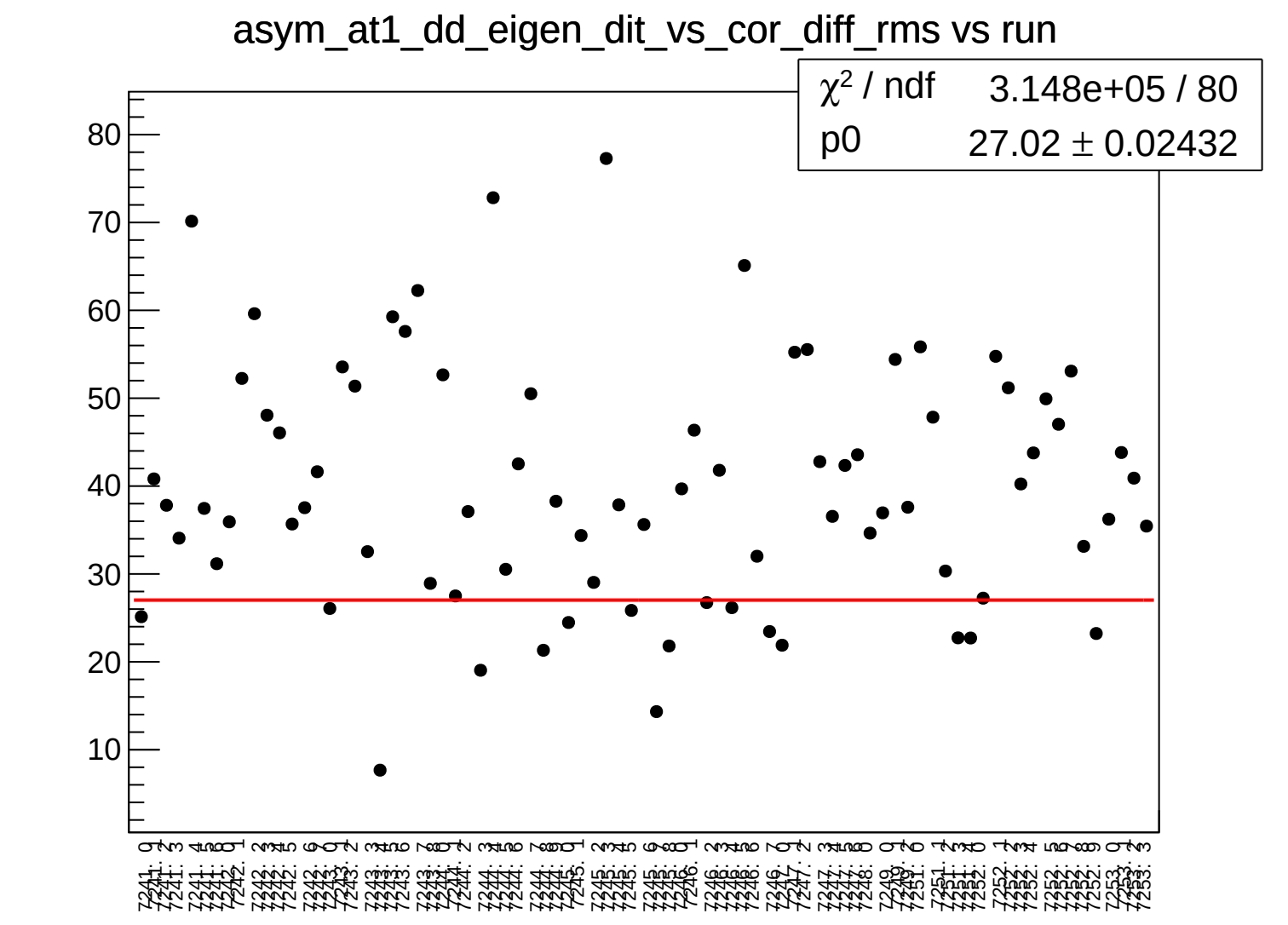

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 65.95 / 80
p0 5.852e−07 ± 6.183e−07
pull
Entries 81
Mean 83.16
Std Dev 0

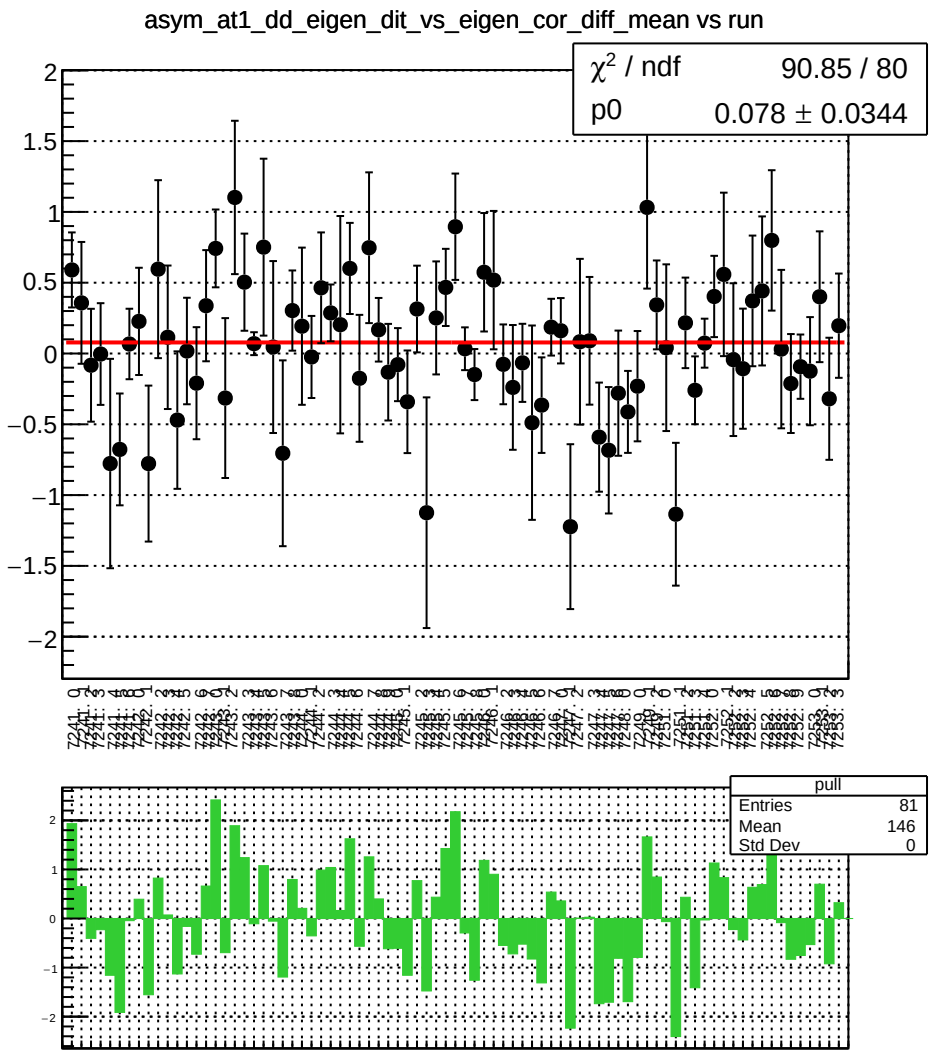

pull1D
Entries 81
Mean −0.05814
Std Dev 0.9004

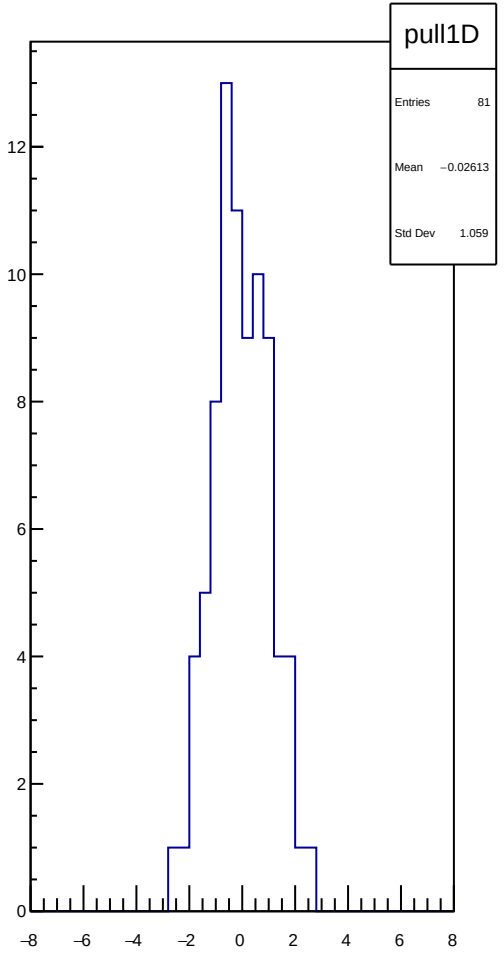

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.164e+05 / 80
p0 0.0005048 ± 4.372e−07
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004

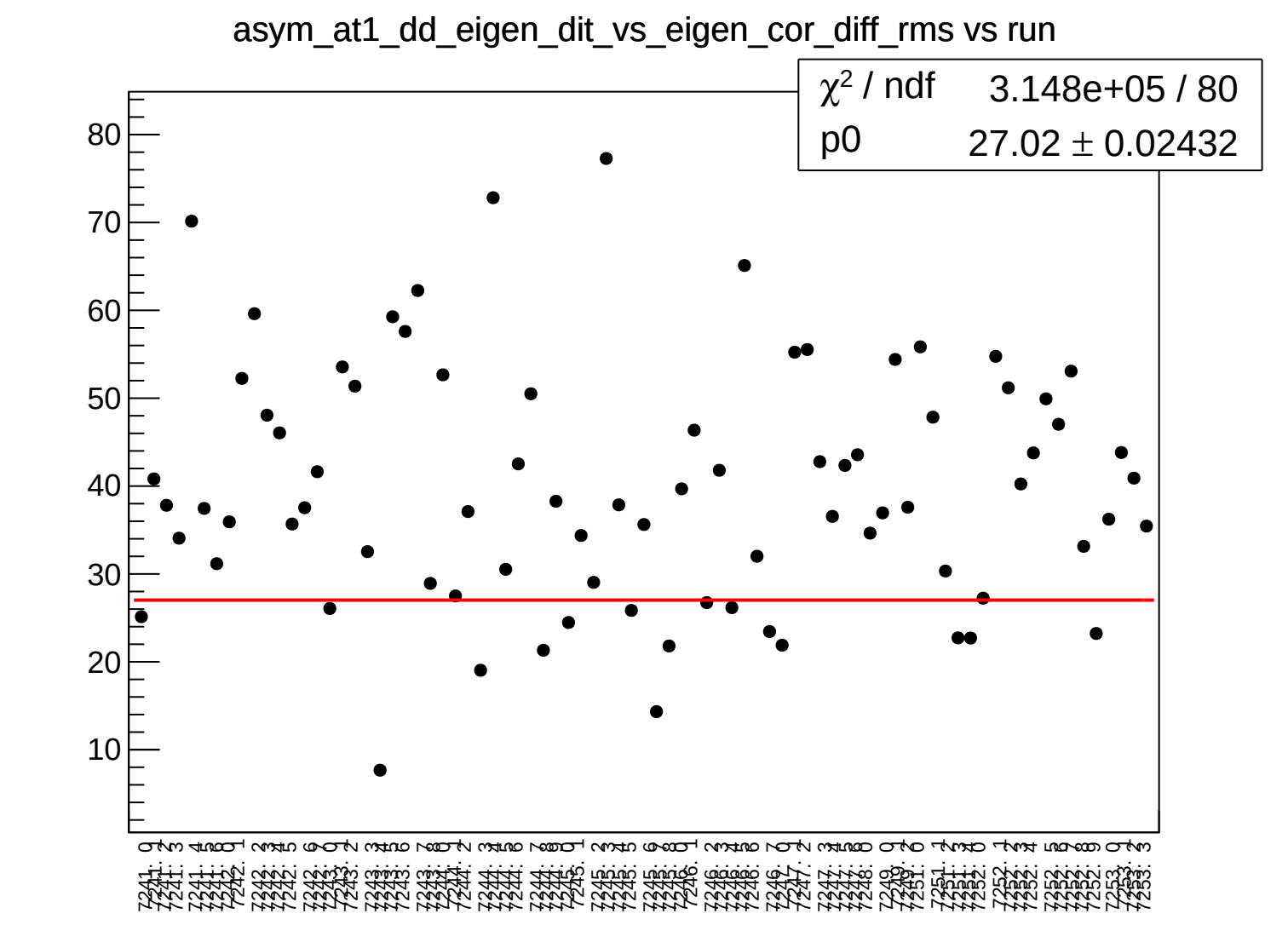

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.85 / 80
p0 0.078 ± 0.0344
pull
Entries 81
Mean 146
Std Dev 0

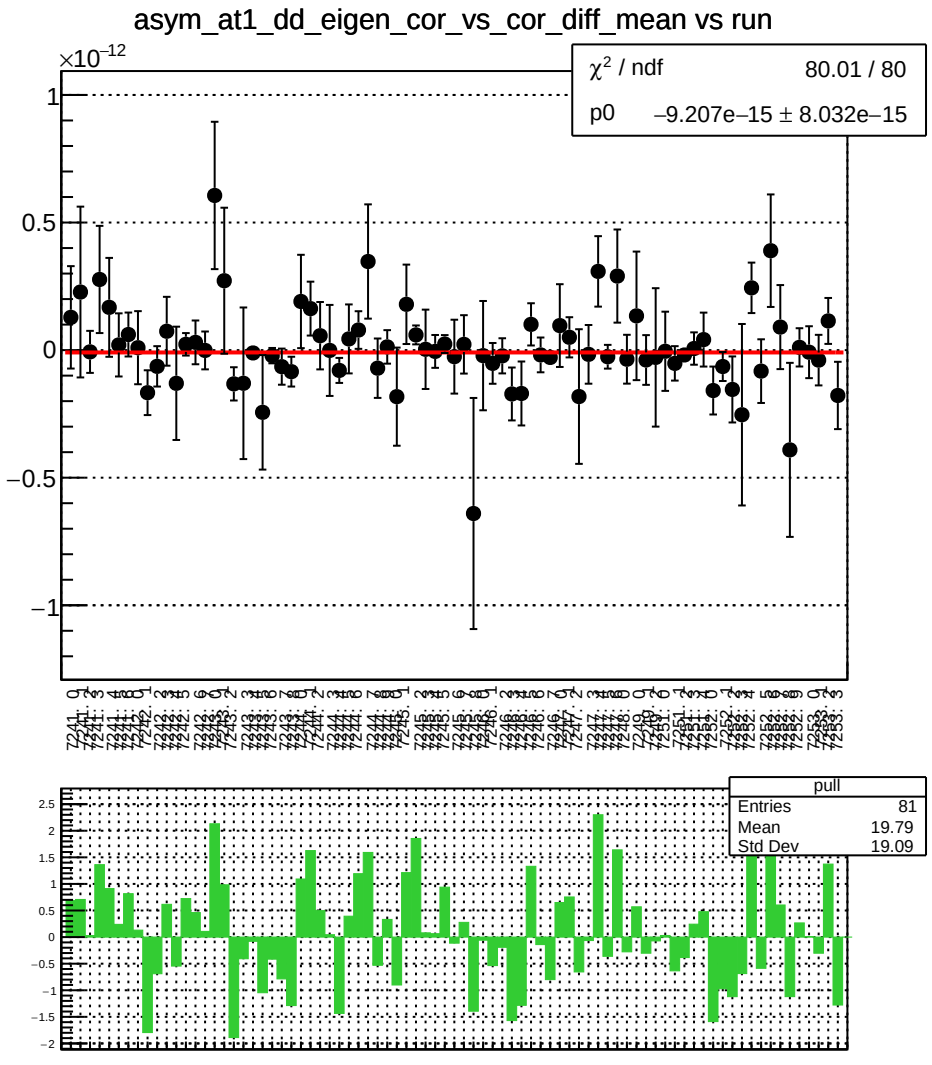

pull1D
Entries 81
Mean −0.02613
Std Dev 1.059

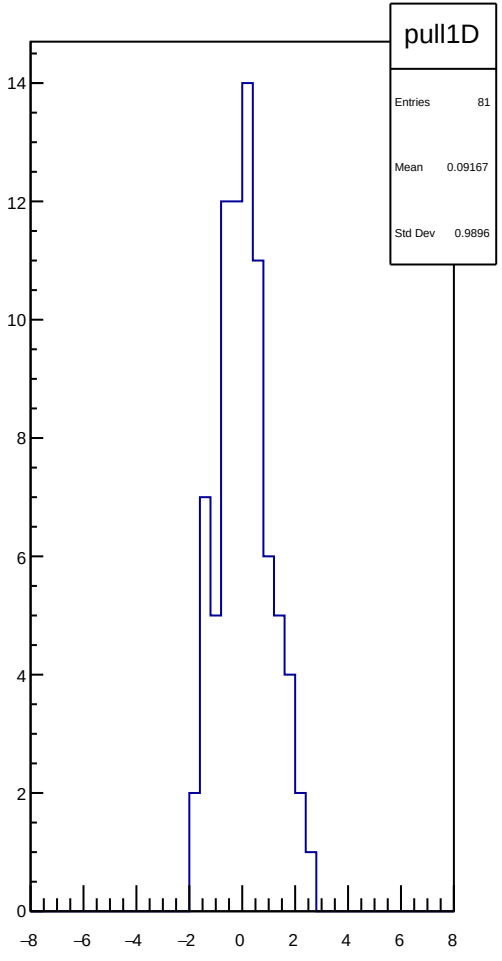

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.148e+05 / 80
p0 27.02 ± 0.02432
80
70
60
50
40
30
20
10

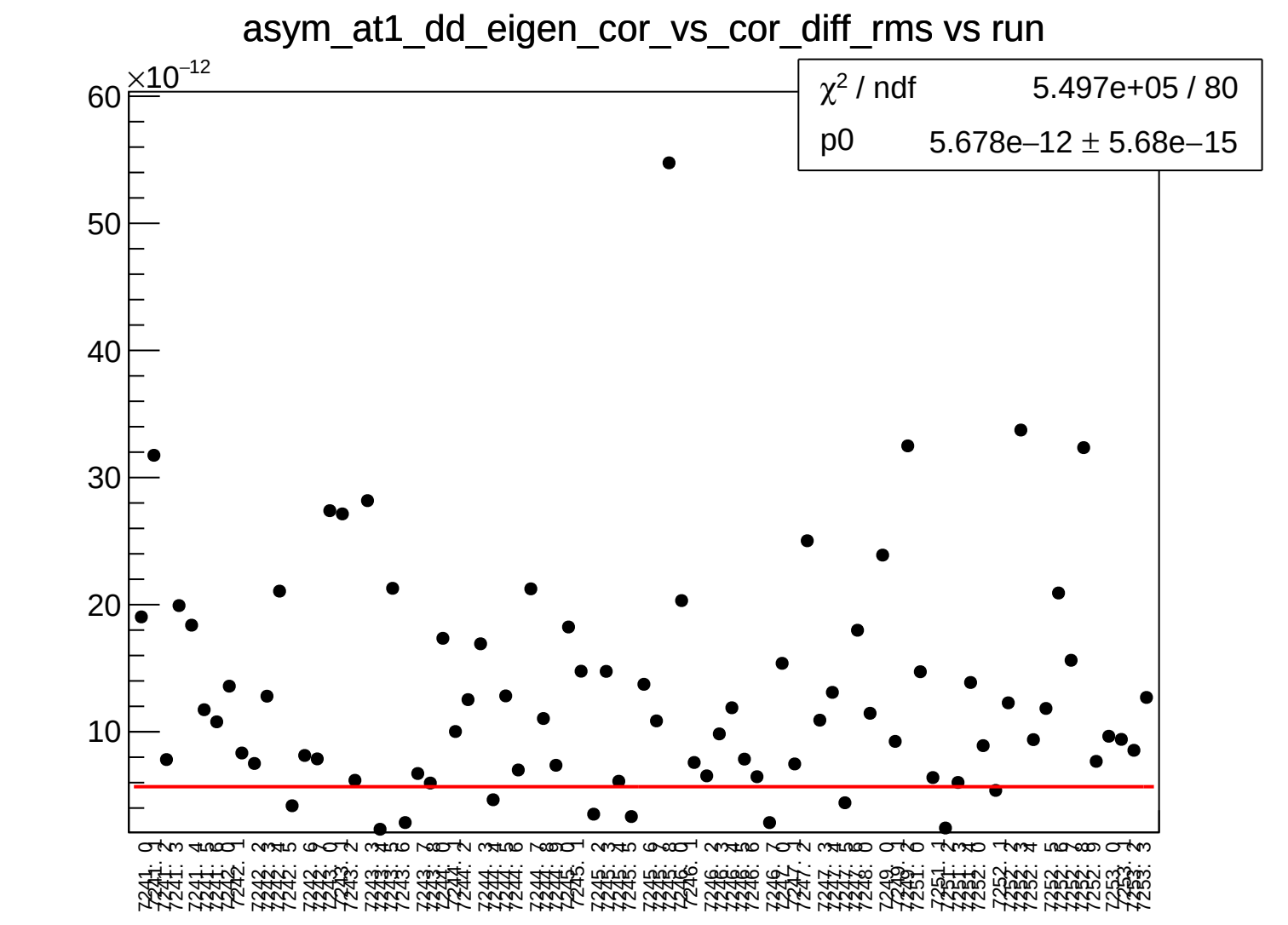

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.85 / 80
p0 0.078 ± 0.0344
pull
Entries 81
Mean 146
Std Dev 0

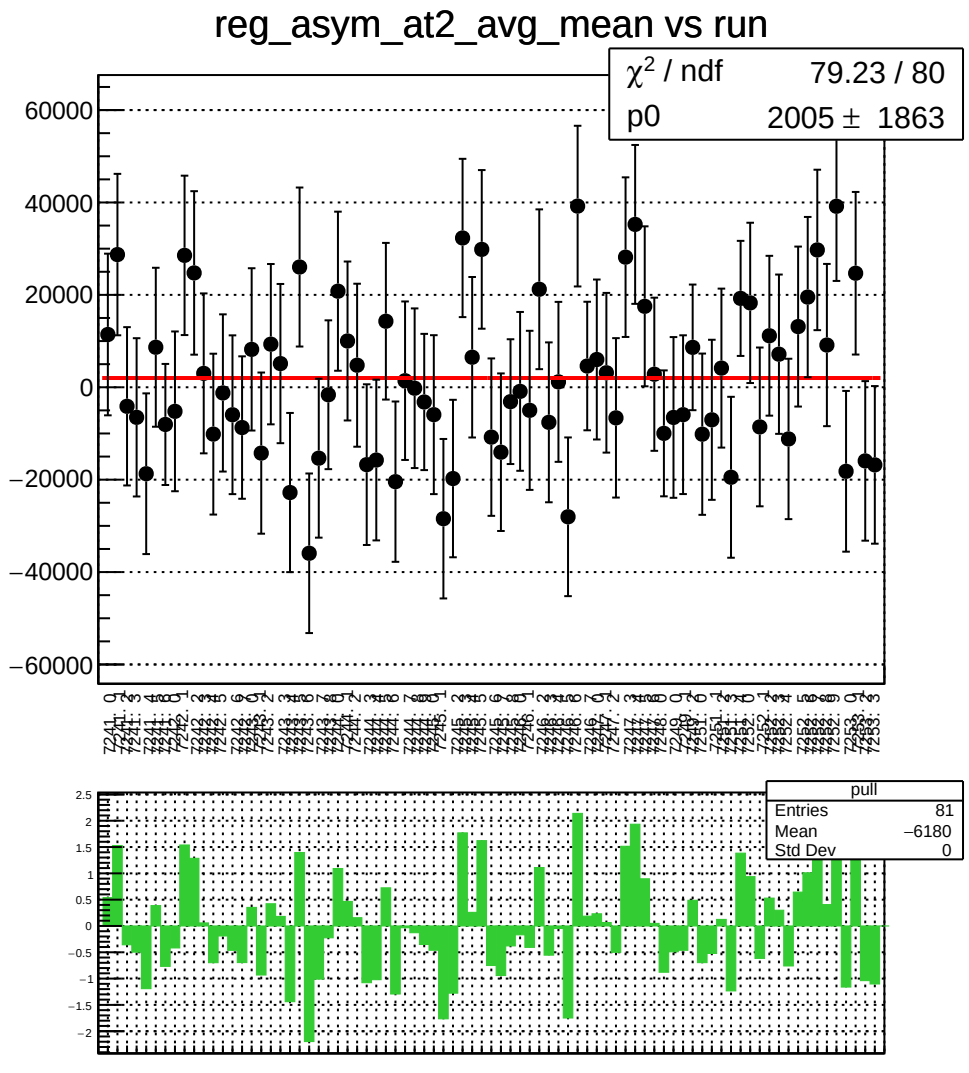

pull1D
Entries 81
Mean −0.02613
Std Dev 1.059

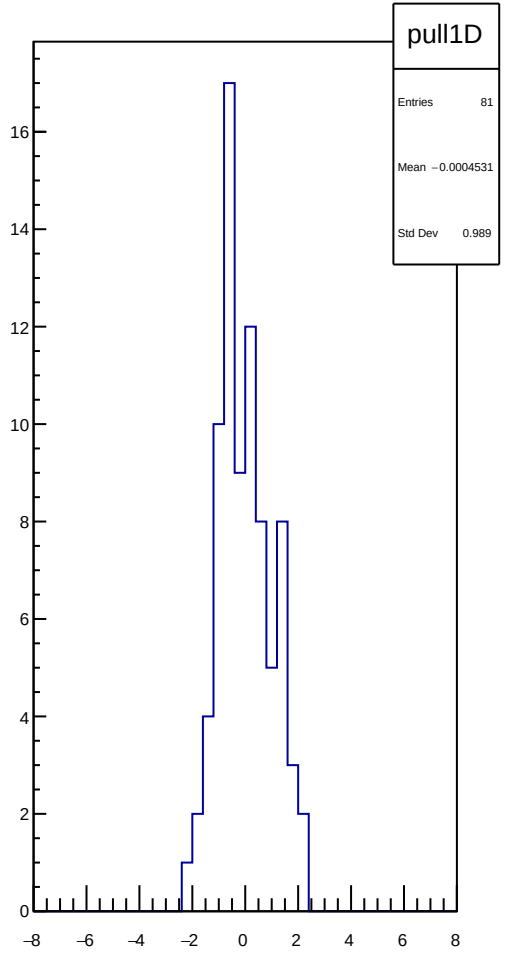

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.148e+05 / 80
p0 27.02 ± 0.02432
80
70
60
50
40
30
20
10

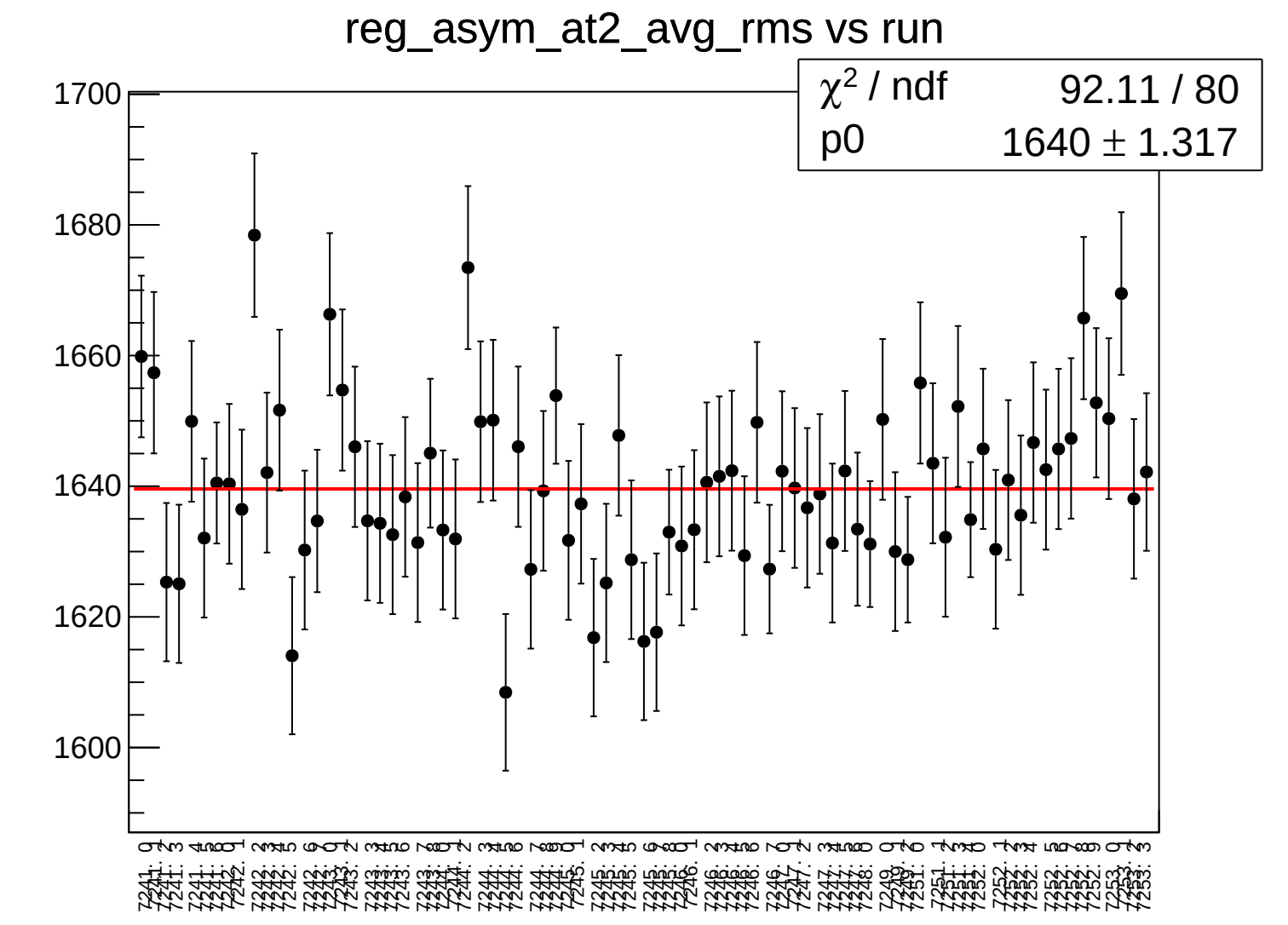

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.01 / 80
p0 −9.207e−15 ± 8.032e−15
pull
Entries 81
Mean 19.79
Std Dev 19.09

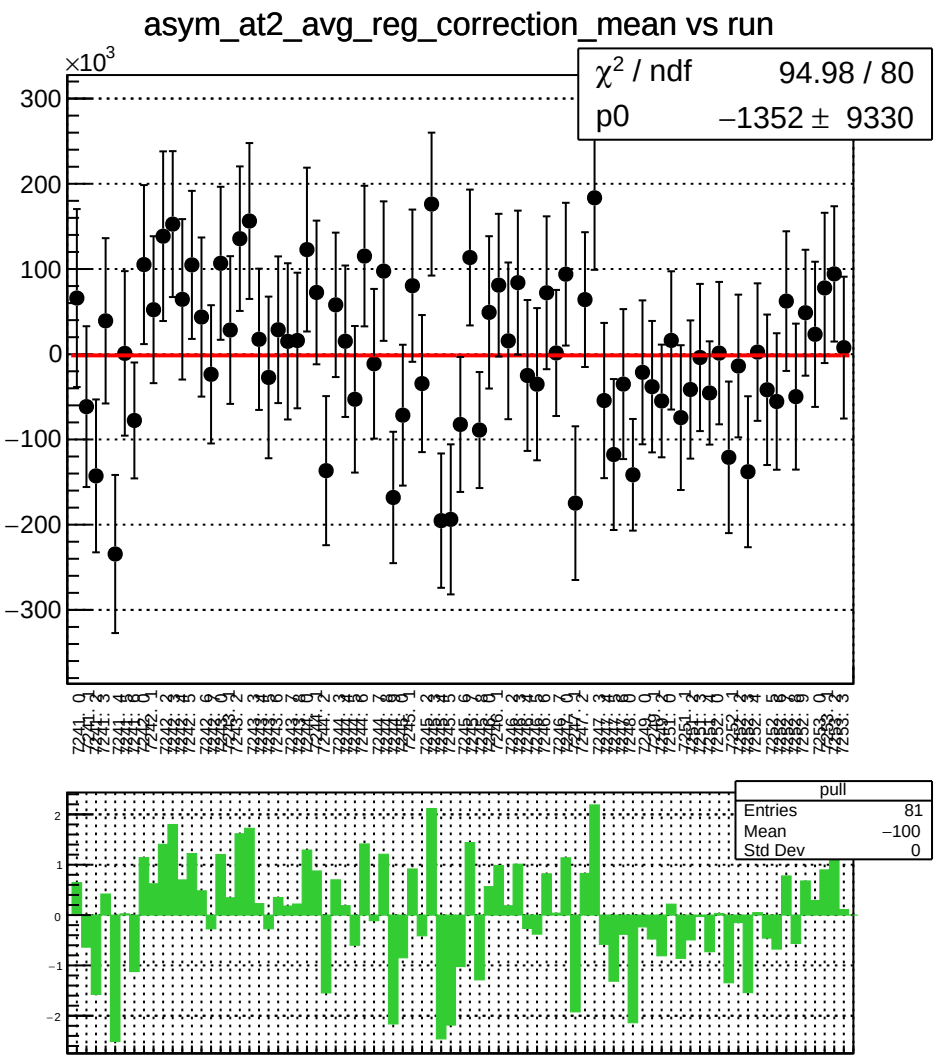

pull1D
Entries 81
Mean 0.09167
Std Dev 0.9896

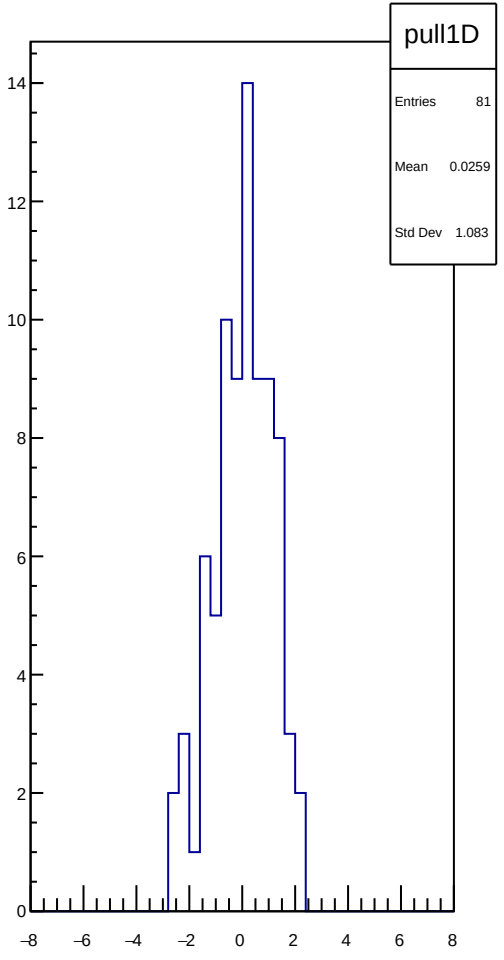

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.497e+05 / 80
p0 5.678e−12 ± 5.68e−15
60
50
40
30
20
10

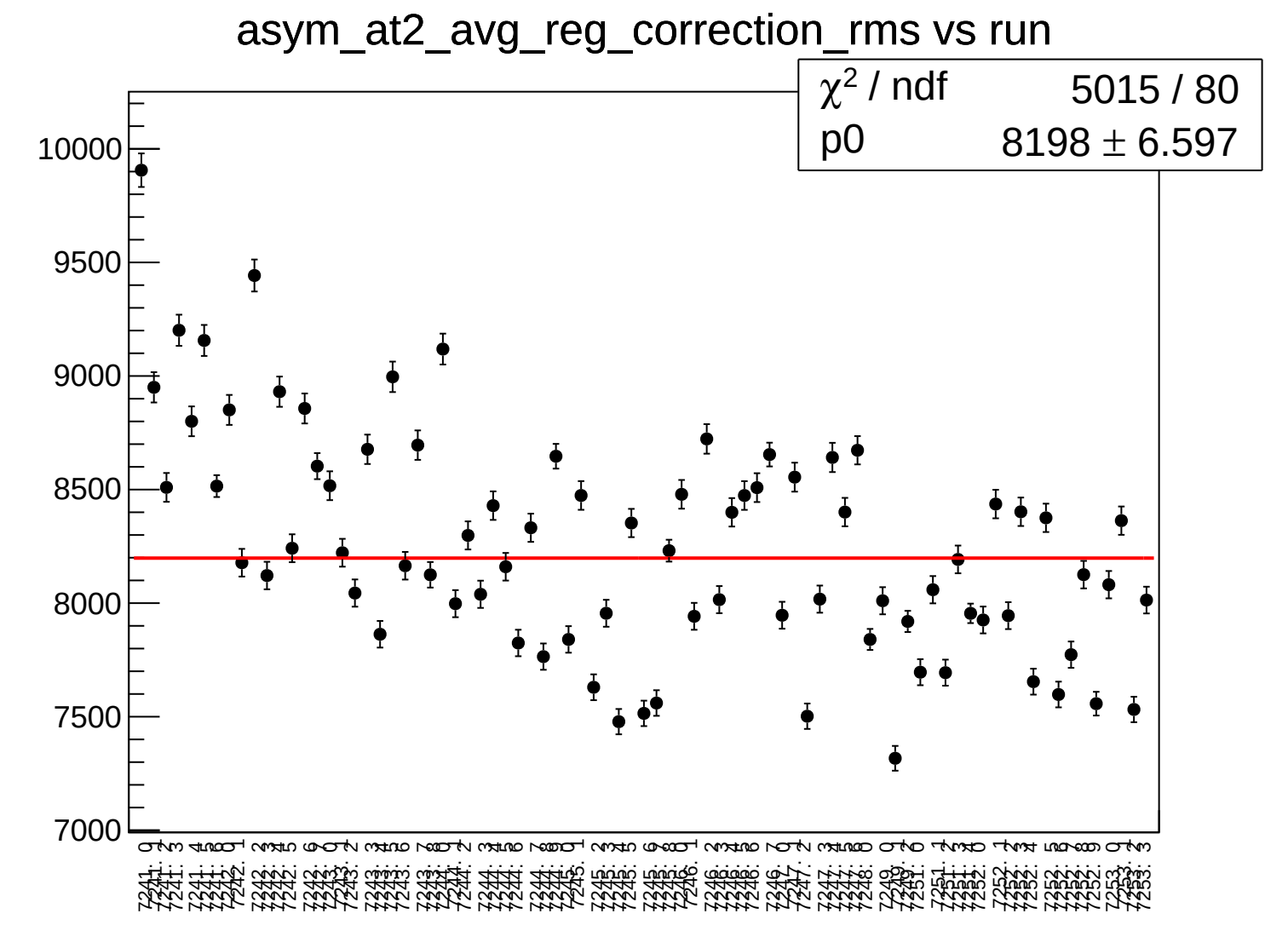

reg_asym_at2_avg_mean vs run
χ² / ndf 79.23 / 80
p0 2005 ± 1863
pull
Entries 81
Mean −6180
Std Dev 0

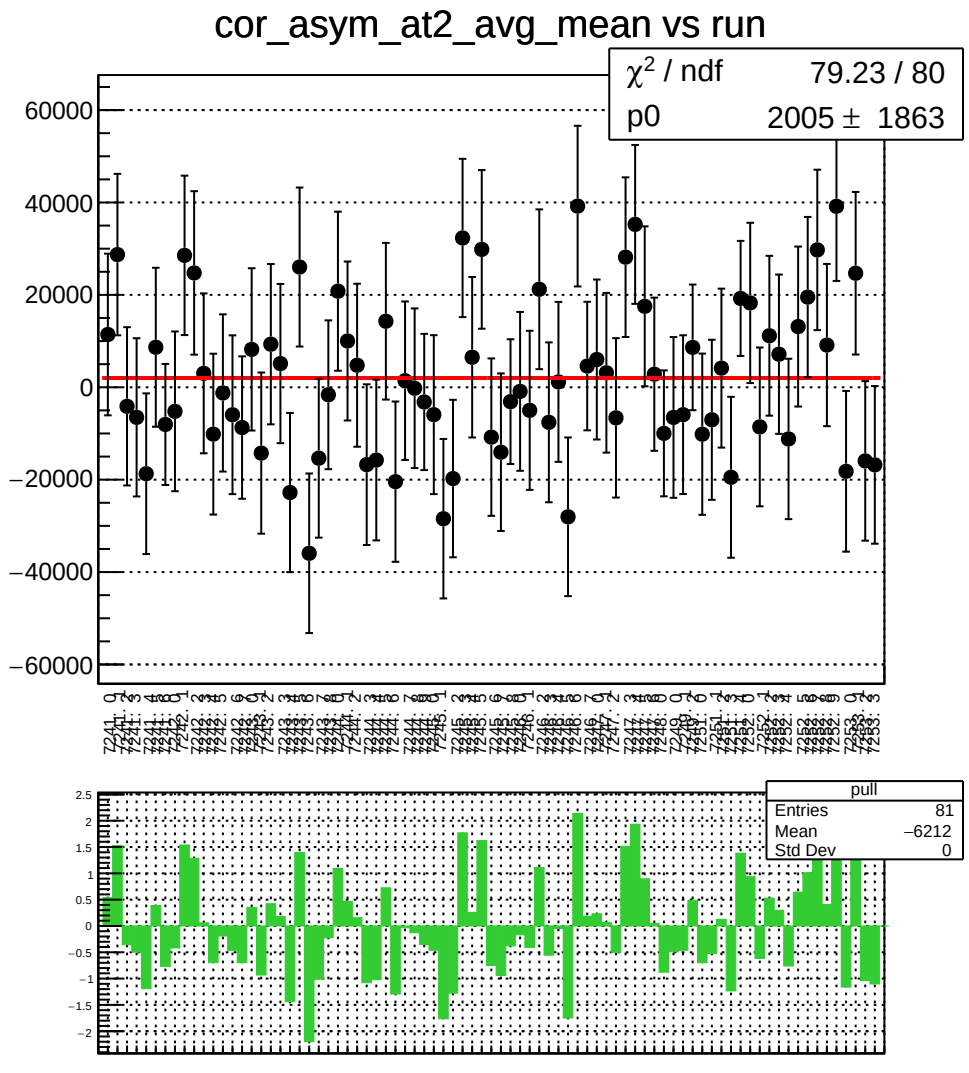

pull1D
Entries 81
Mean −0.0004531
Std Dev 0.989

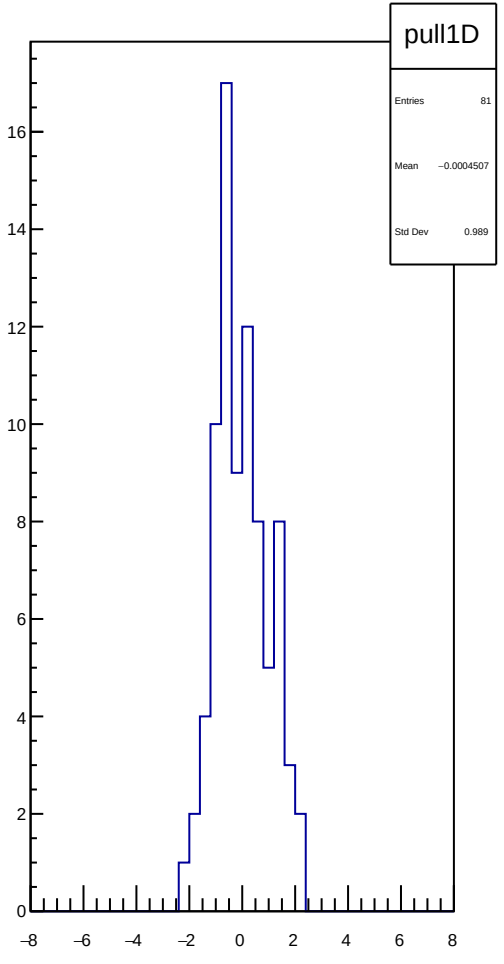

reg_asym_at2_avg_rms vs run
χ² / ndf 92.11 / 80
p0 1640 ± 1.317
1700
1680
1660
1640
1620
1600

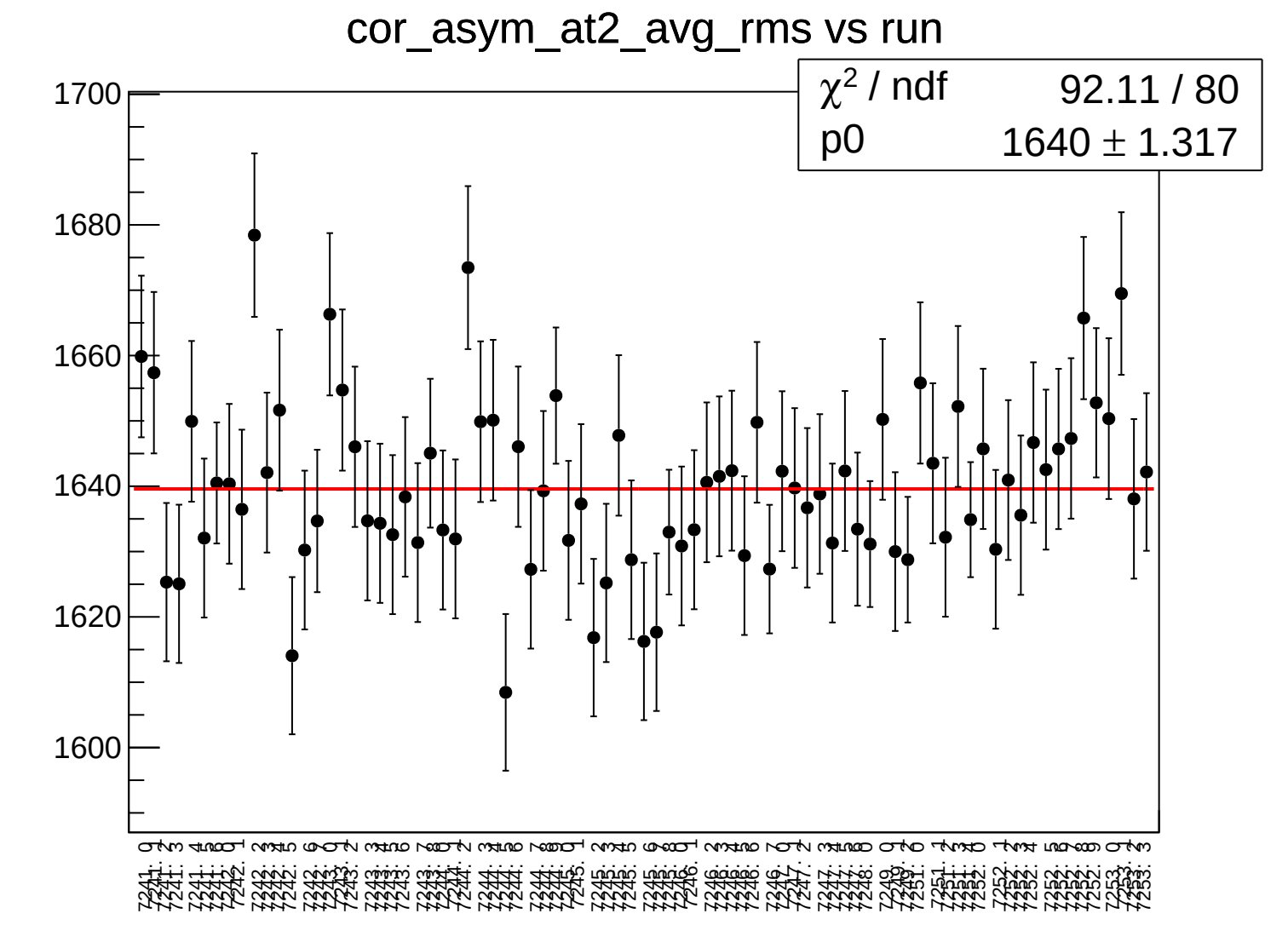

asym_at2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 94.98 / 80
p0 −1352 ± 9330
pull
Entries 81
Mean −100
Std Dev 0

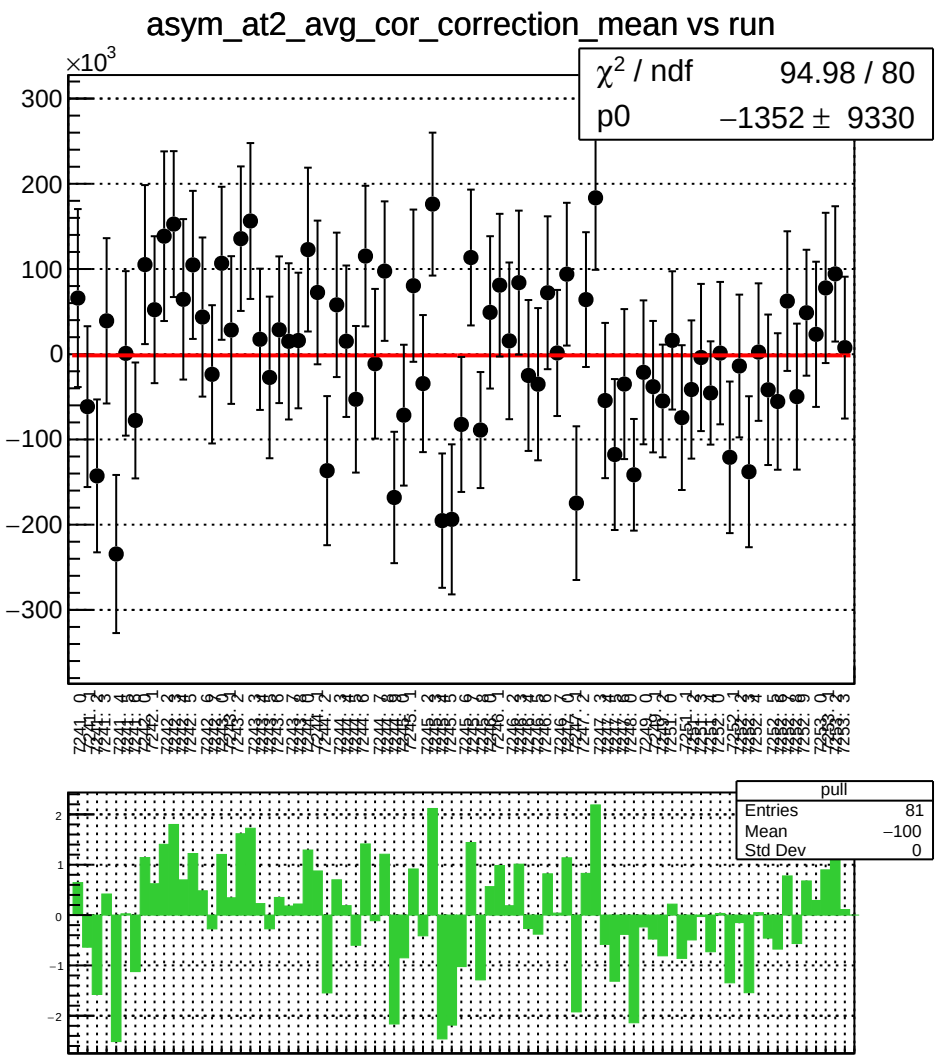

pull1D
Entries 81
Mean 0.0259
Std Dev 1.083

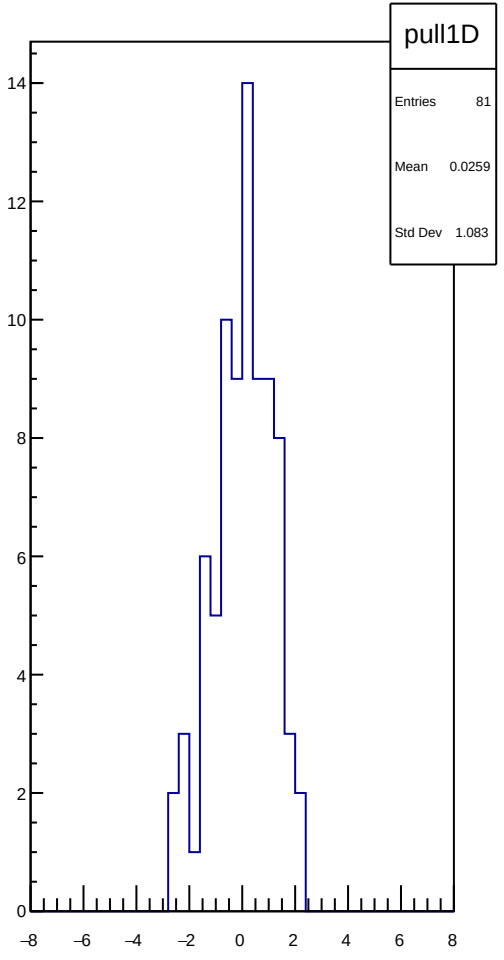

asym_at2_avg_reg_correction_rms vs run
χ^2 / ndf 5015 / 80
p0 8198 ± 6.597
10000
9500
9000
8500
8000
7500
7000

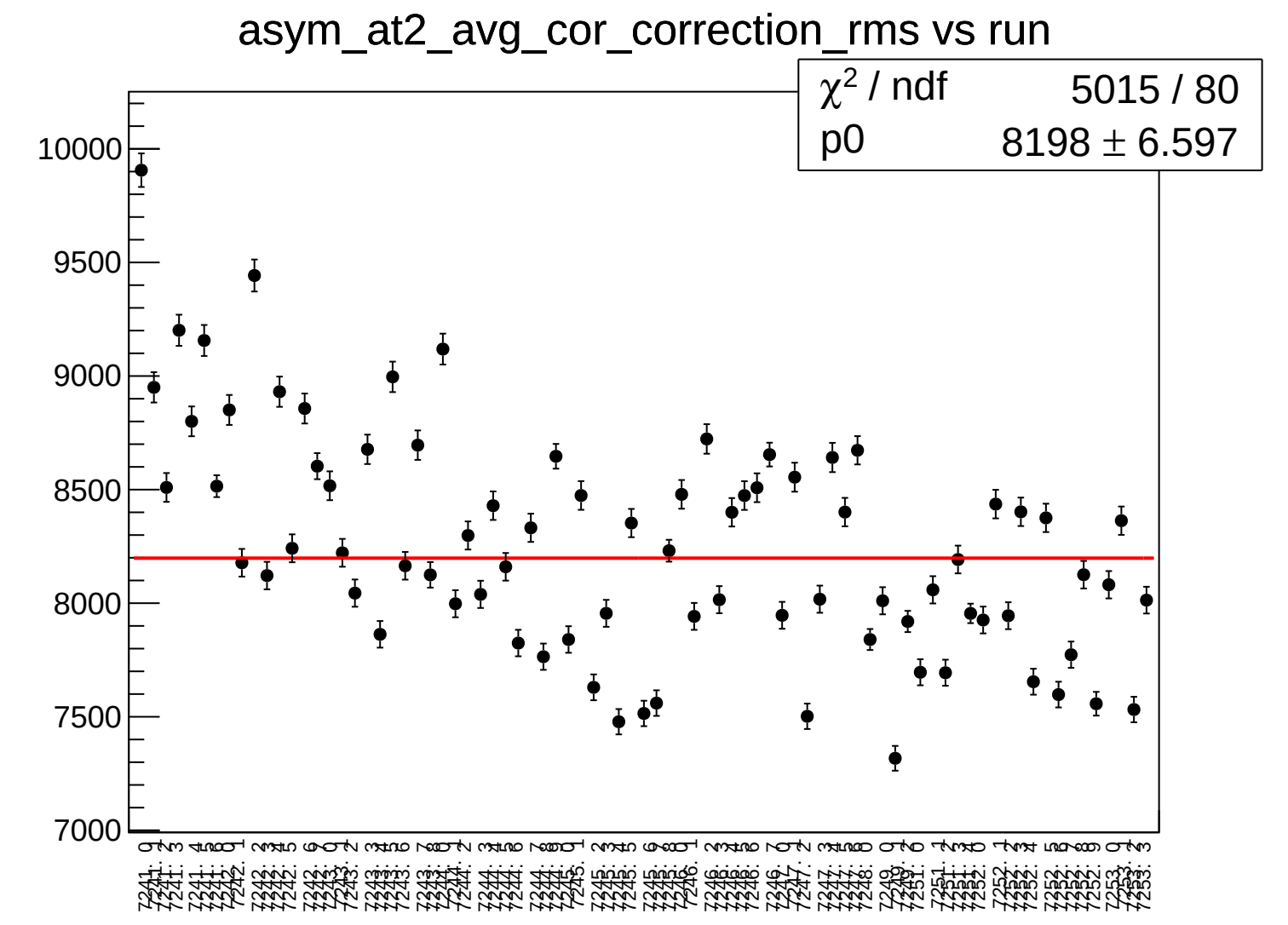

cor_asym_at2_avg_mean vs run
χ² / ndf 79.23 / 80
p0 2005 ± 1863
pull
Entries 81
Mean −6212
Std Dev 0

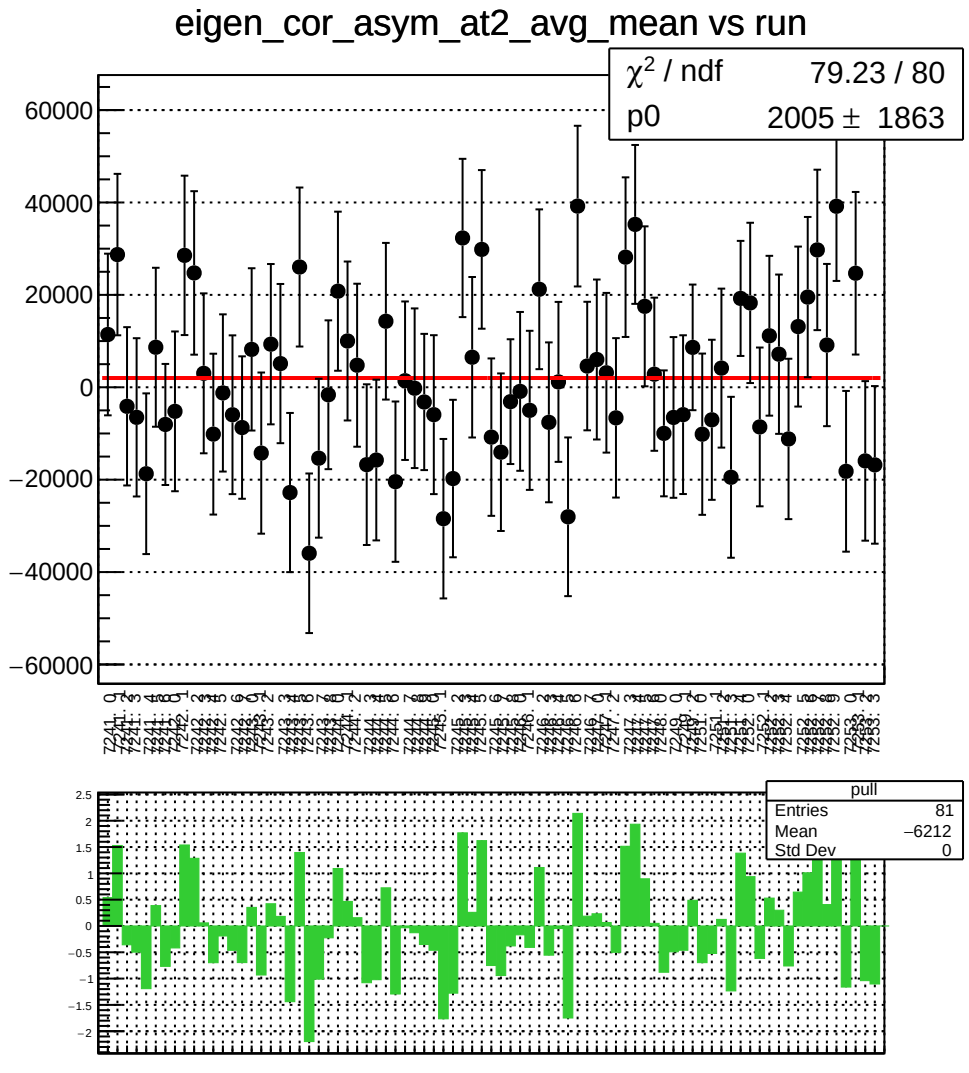

pull1D
Entries 81
Mean −0.0004507
Std Dev 0.989

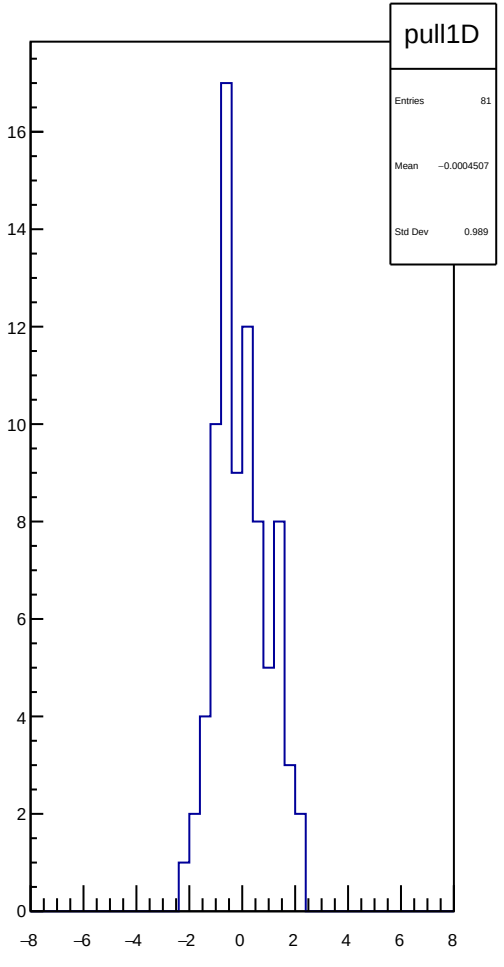

cor_asym_at2_avg_rms vs run
χ² / ndf 92.11 / 80
p0 1640 ± 1.317
1700
1680
1660
1640
1620
1600

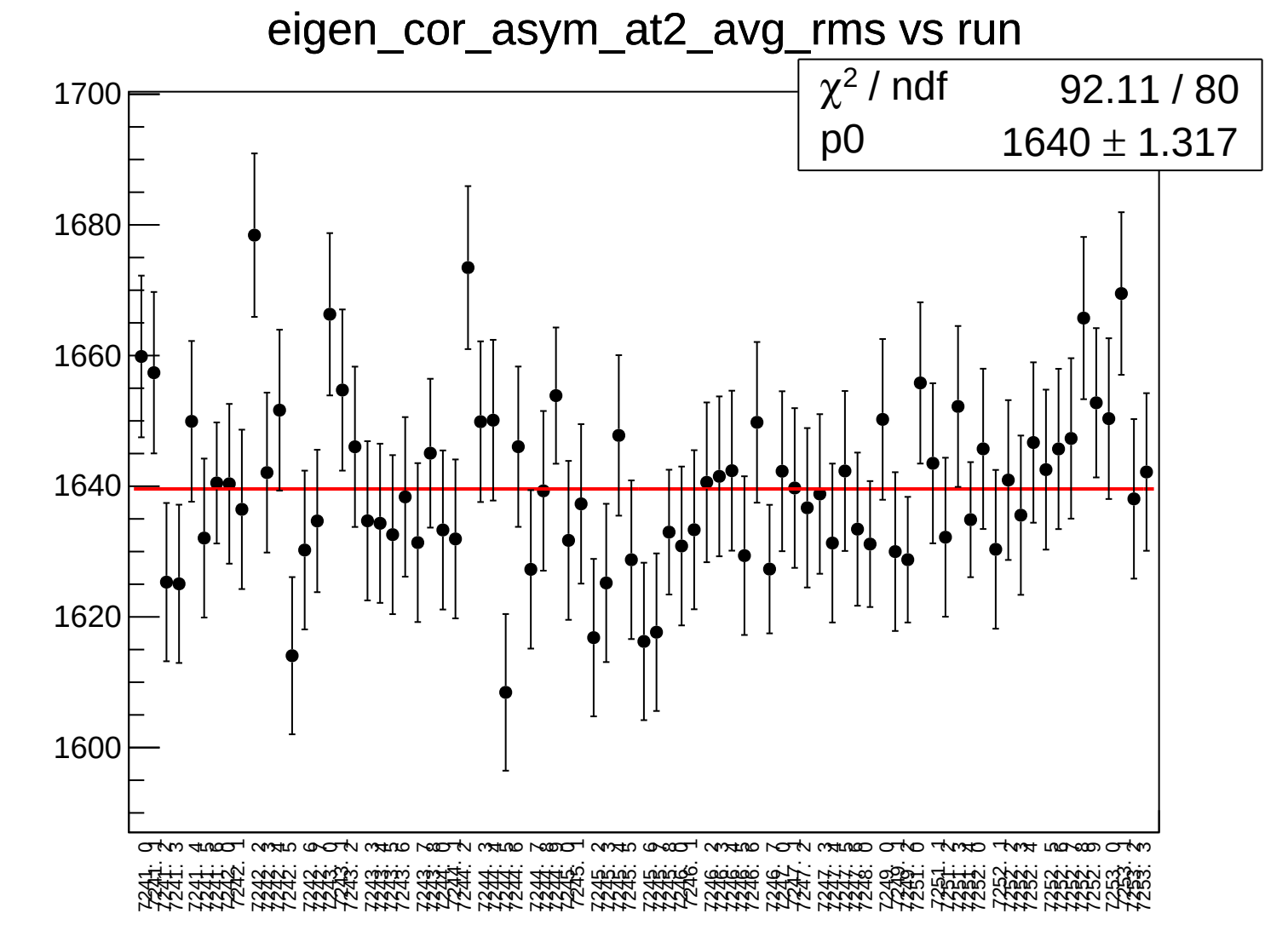

asym_at2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 94.98 / 80
p0 −1352 ± 9330
pull
Entries 81
Mean −100
Std Dev 0


pull1D
Entries 81
Mean 0.0259
Std Dev 1.083

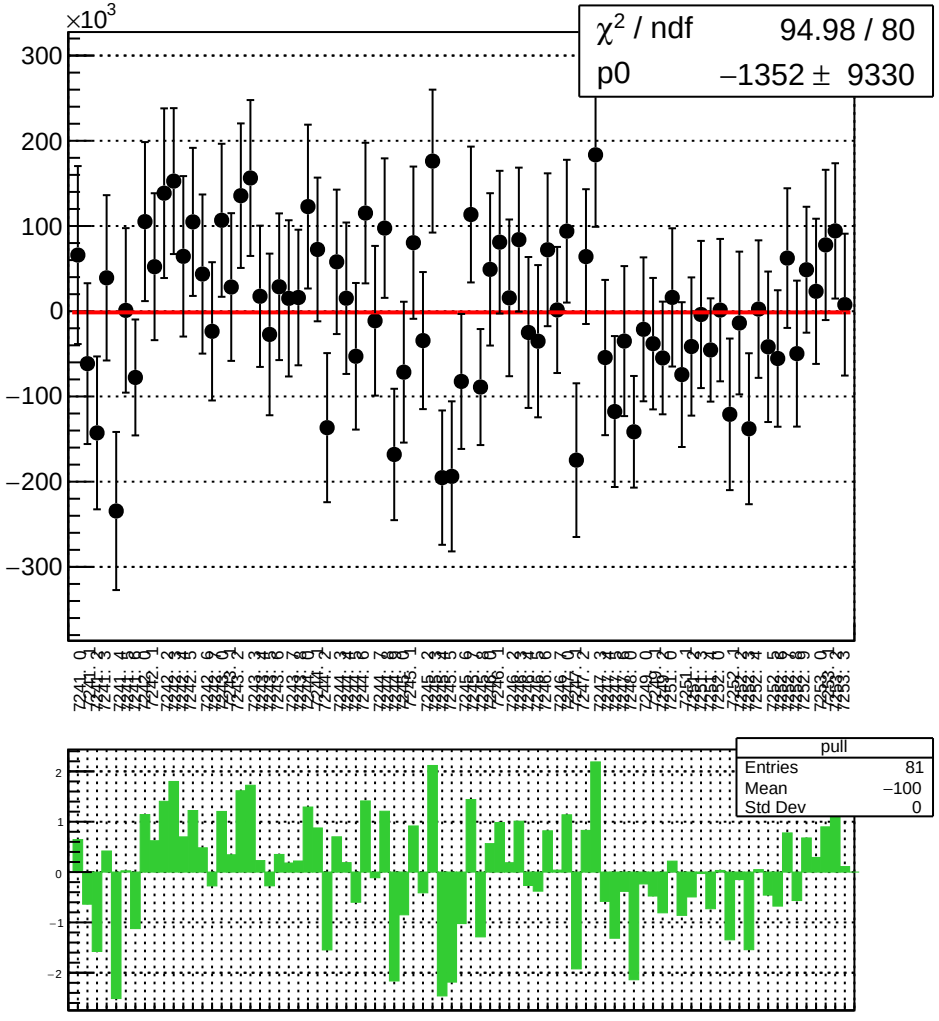

asym_at2_avg_cor_correction_rms vs run
χ^2 / ndf 5015 / 80
p0 8198 ± 6.597
10000
9500
9000
8500
8000
7500
7000

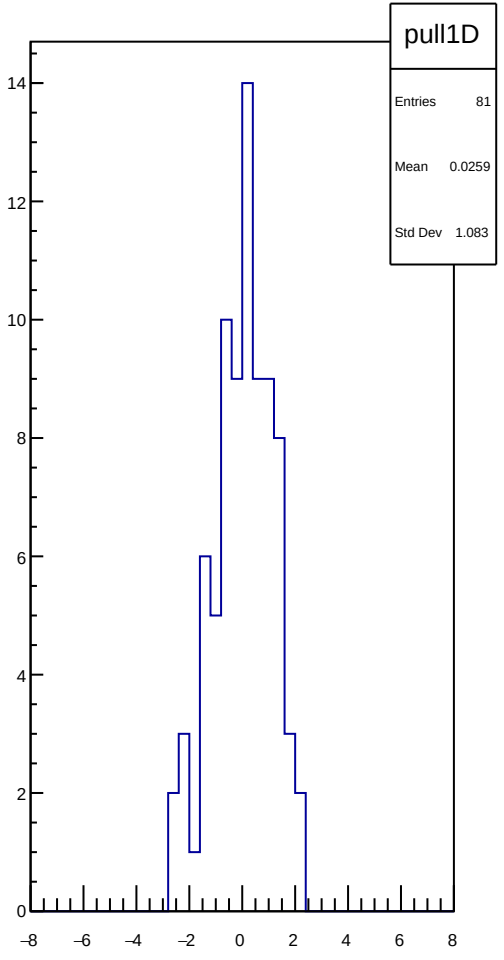

eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 79.23 / 80
p0 2005 ± 1863
pull
Entries 81
Mean −6212
Std Dev 0

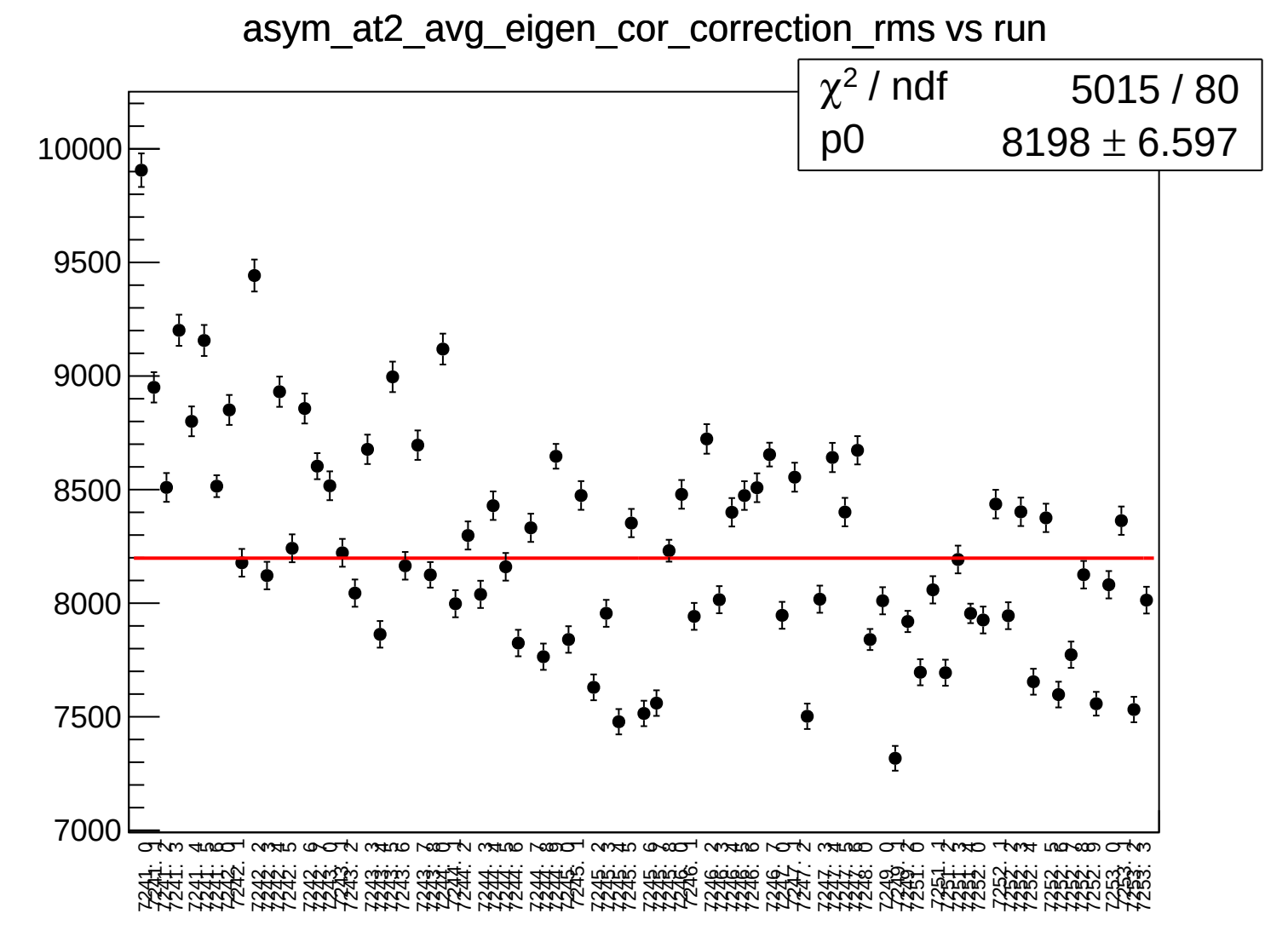

pull1D
Entries 81
Mean −0.0004507
Std Dev 0.989

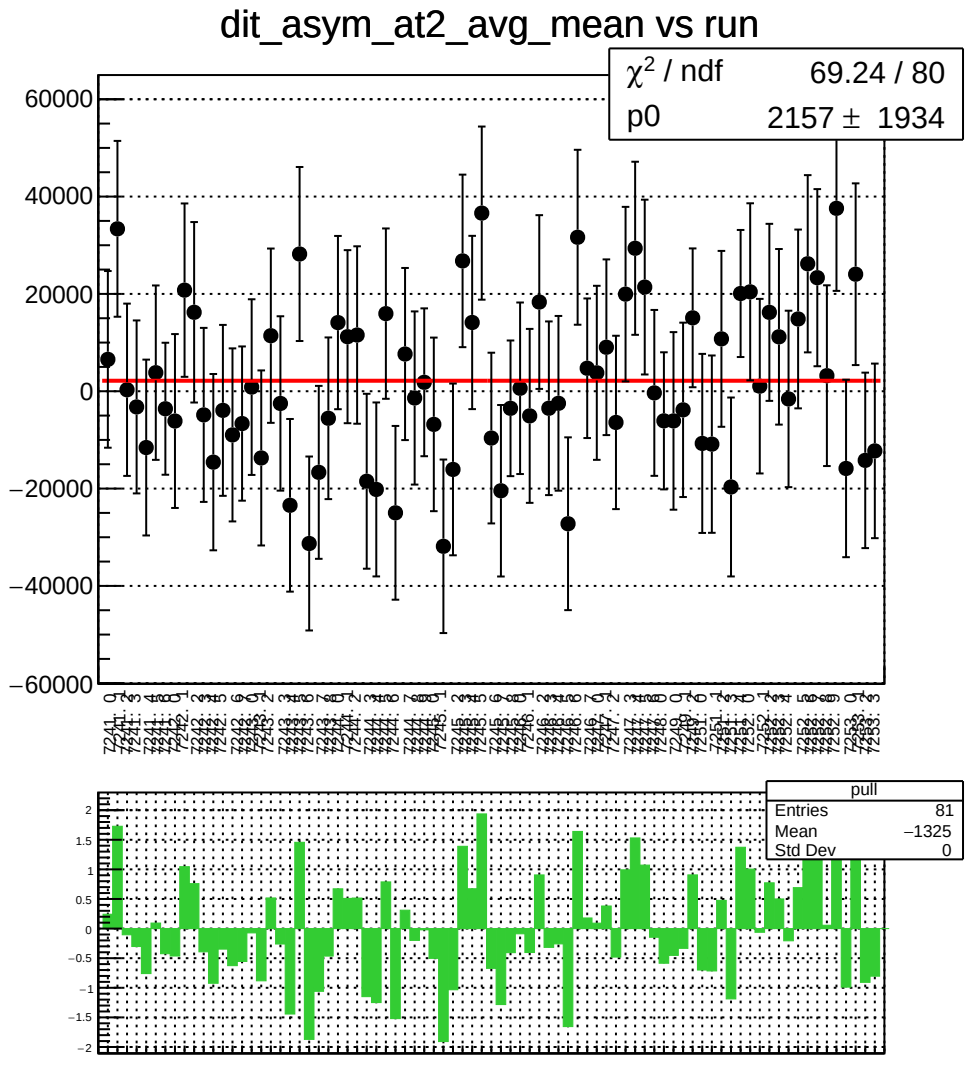

eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 92.11 / 80
p0 1640 ± 1.317
1700
1680
1660
1640
1620
1600

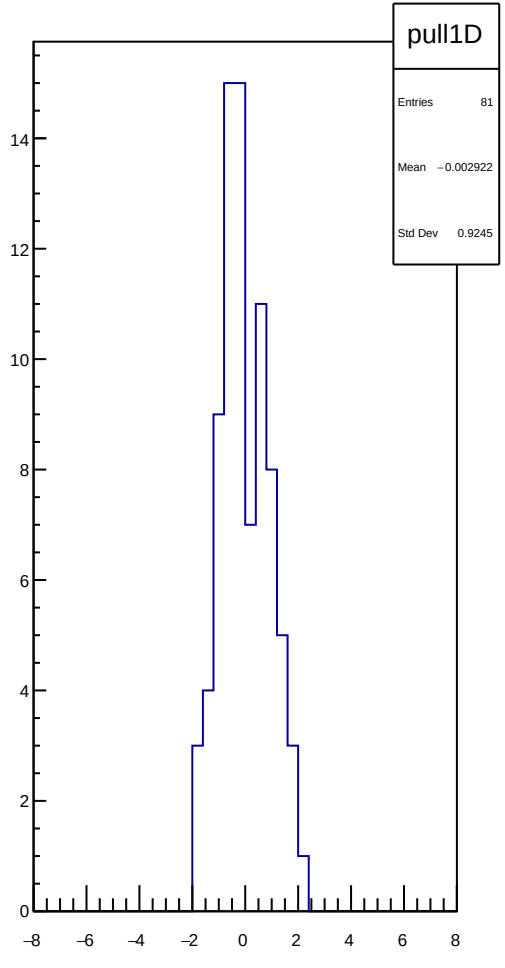
asym_at2_avg_eigen_cor_correction_mean vs run

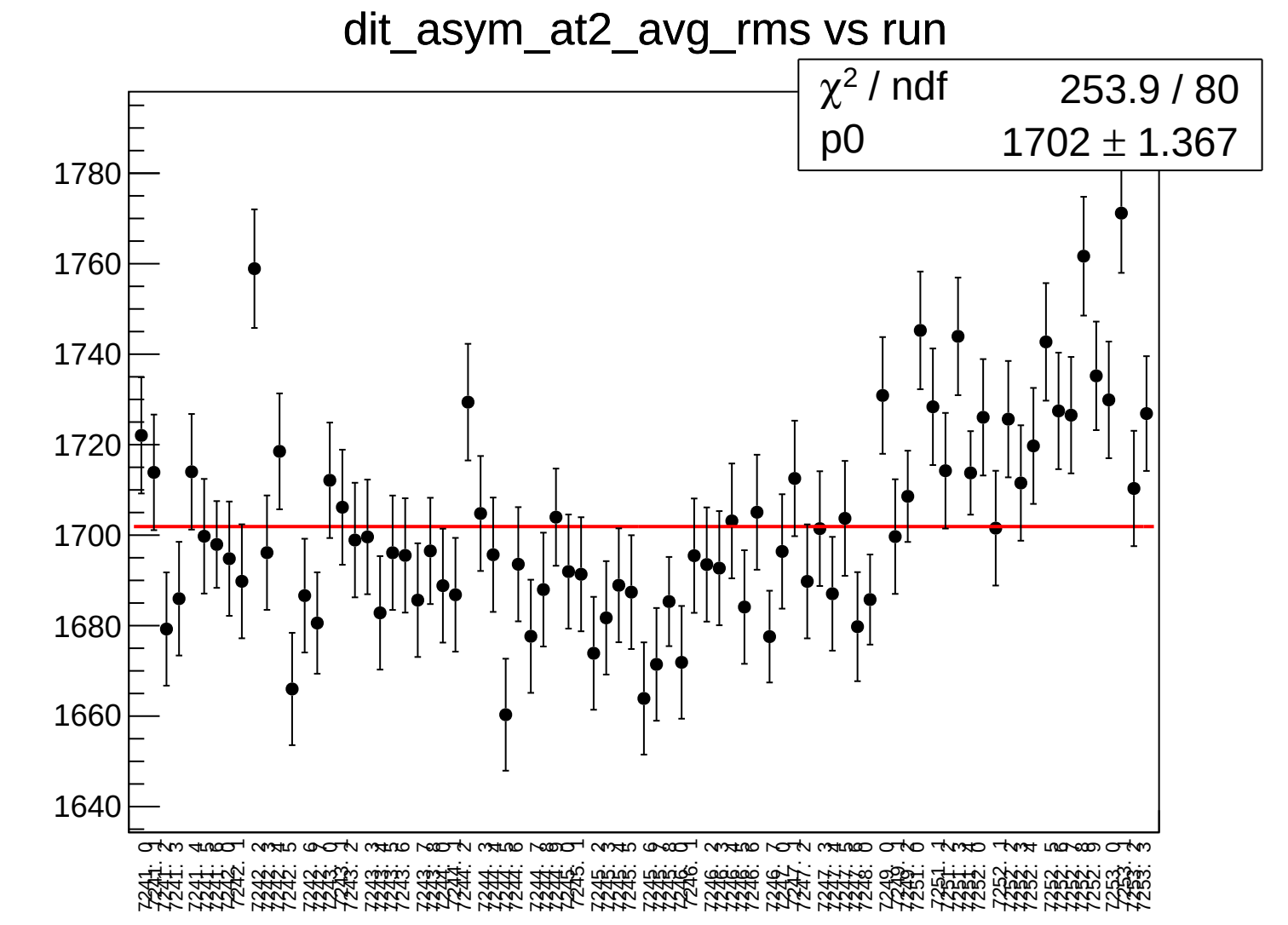


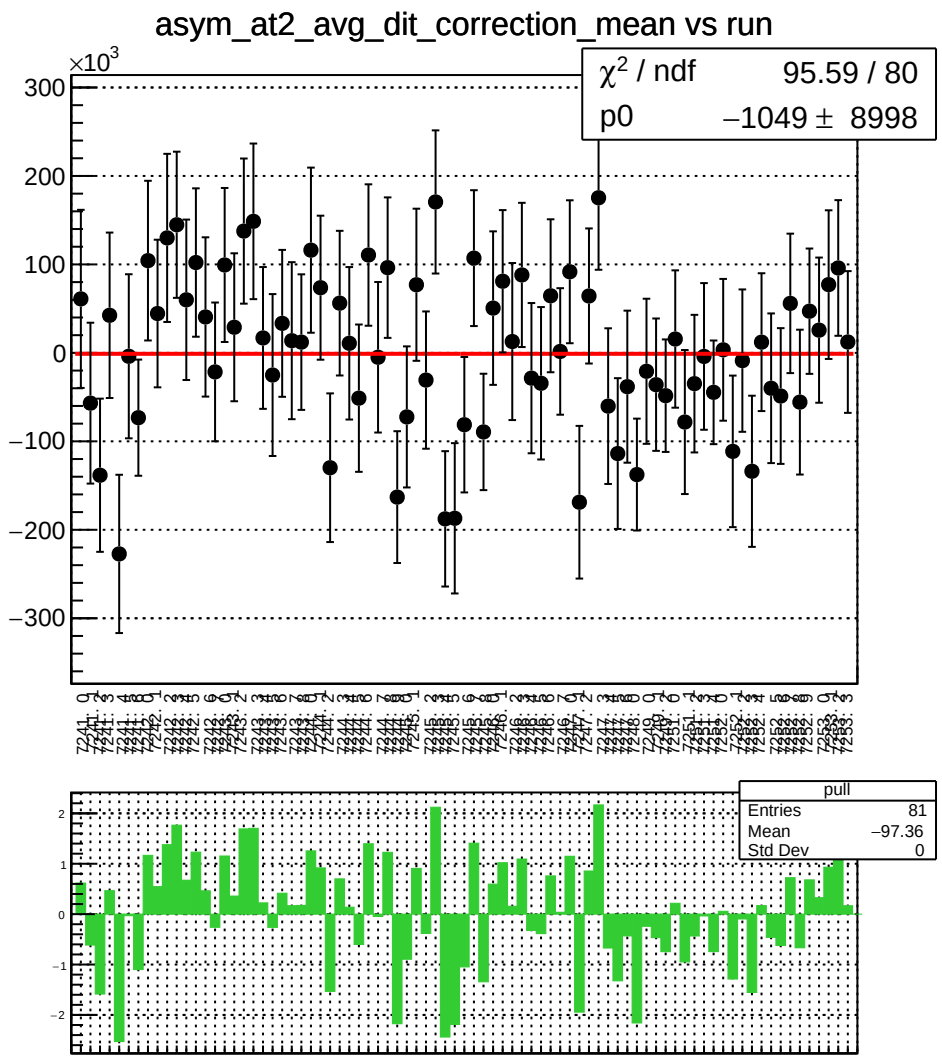


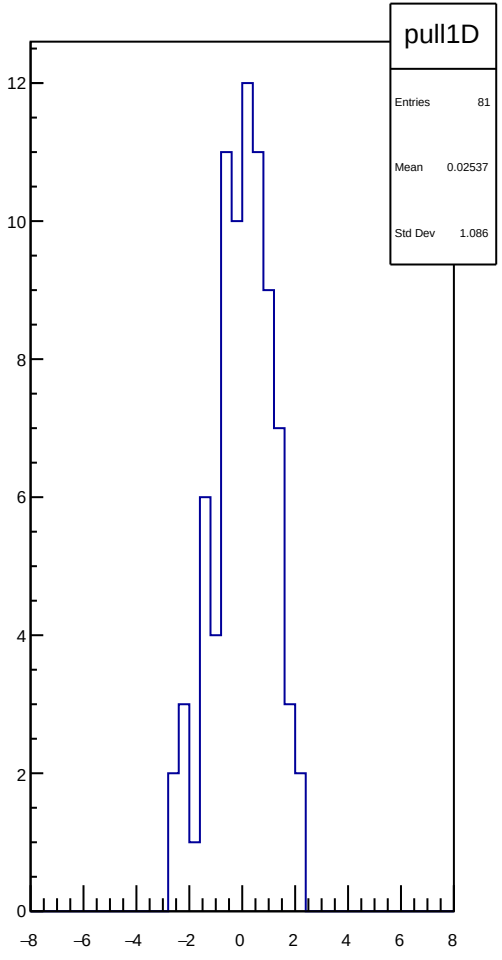

asym_at2_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 5015 / 80
p0 8198 ± 6.597
10000
9500
9000
8500
8000
7500
7000

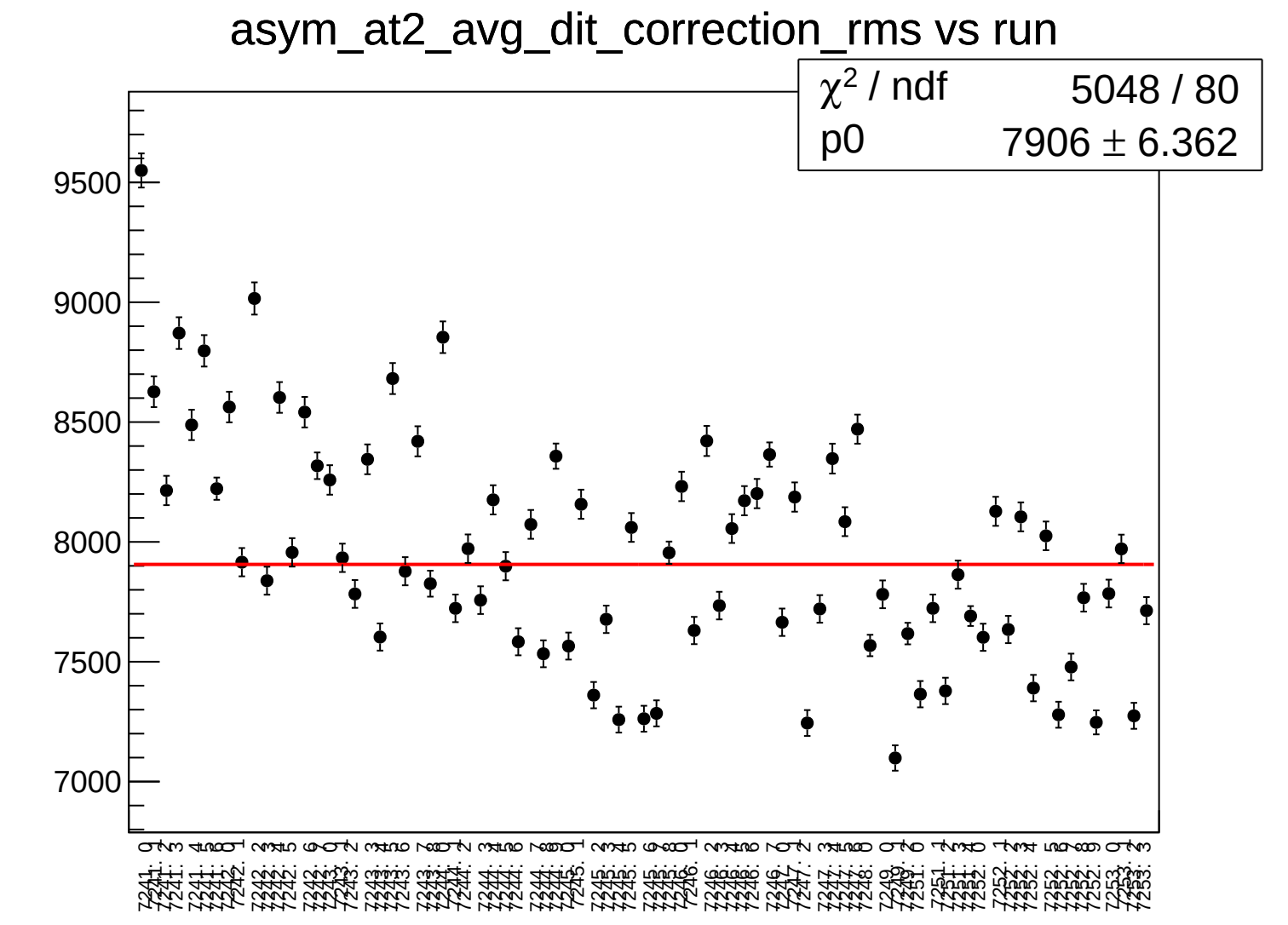

dit_asym_at2_avg_mean vs run
χ^2 / ndf 69.24 / 80
p0 2157 ± 1934
pull
Entries 81
Mean −1325
Std Dev 0

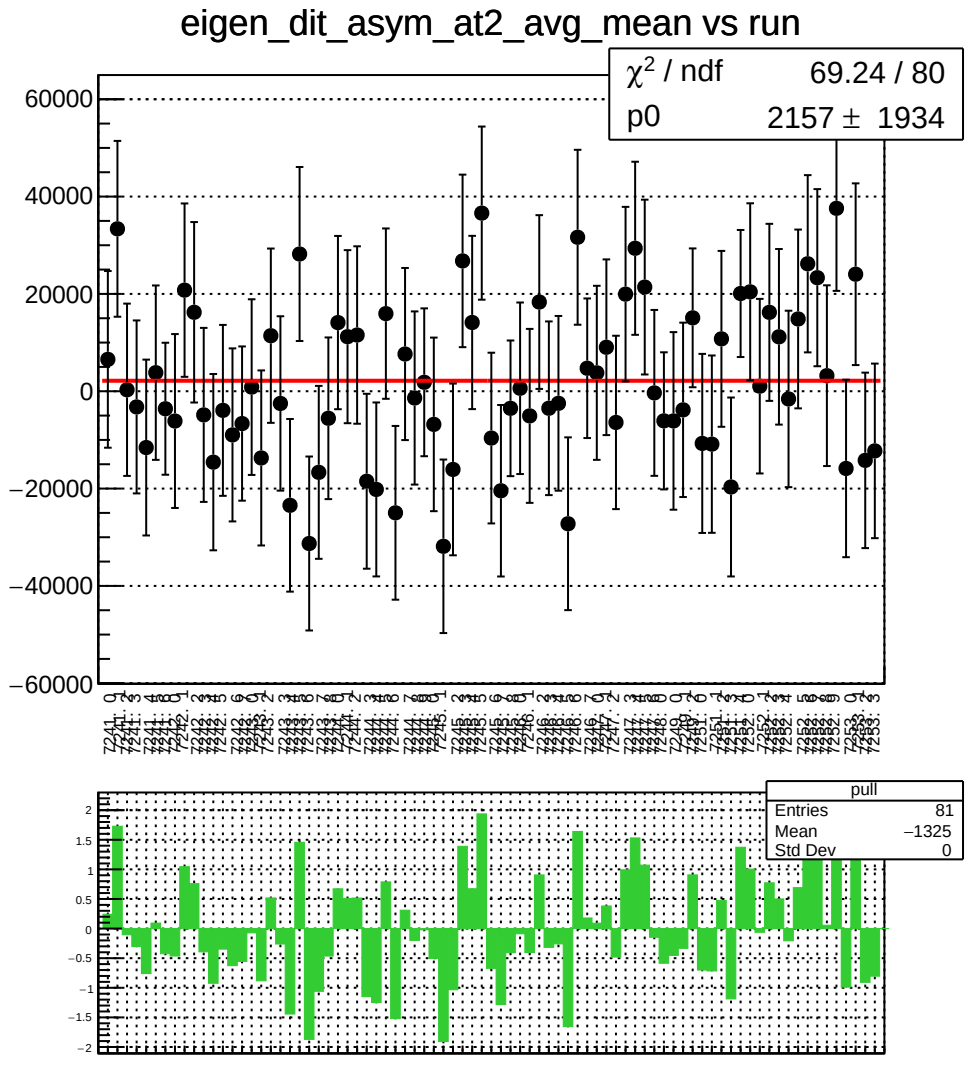

pull1D
Entries 81
Mean −0.002922
Std Dev 0.9245

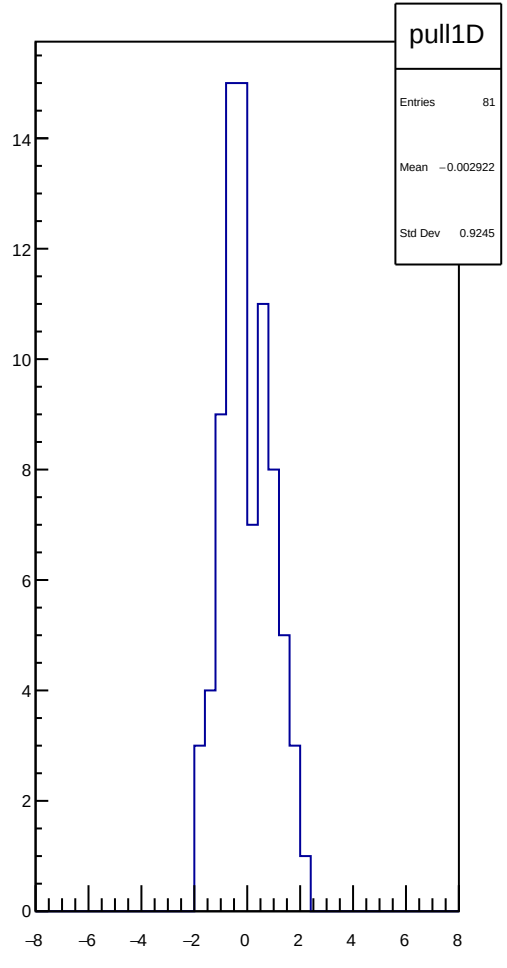

dit_asym_at2_avg_rms vs run
χ² / ndf 253.9 / 80
p0 1702 ± 1.367
1780
1760
1740
1720
1700
1680
1660
1640

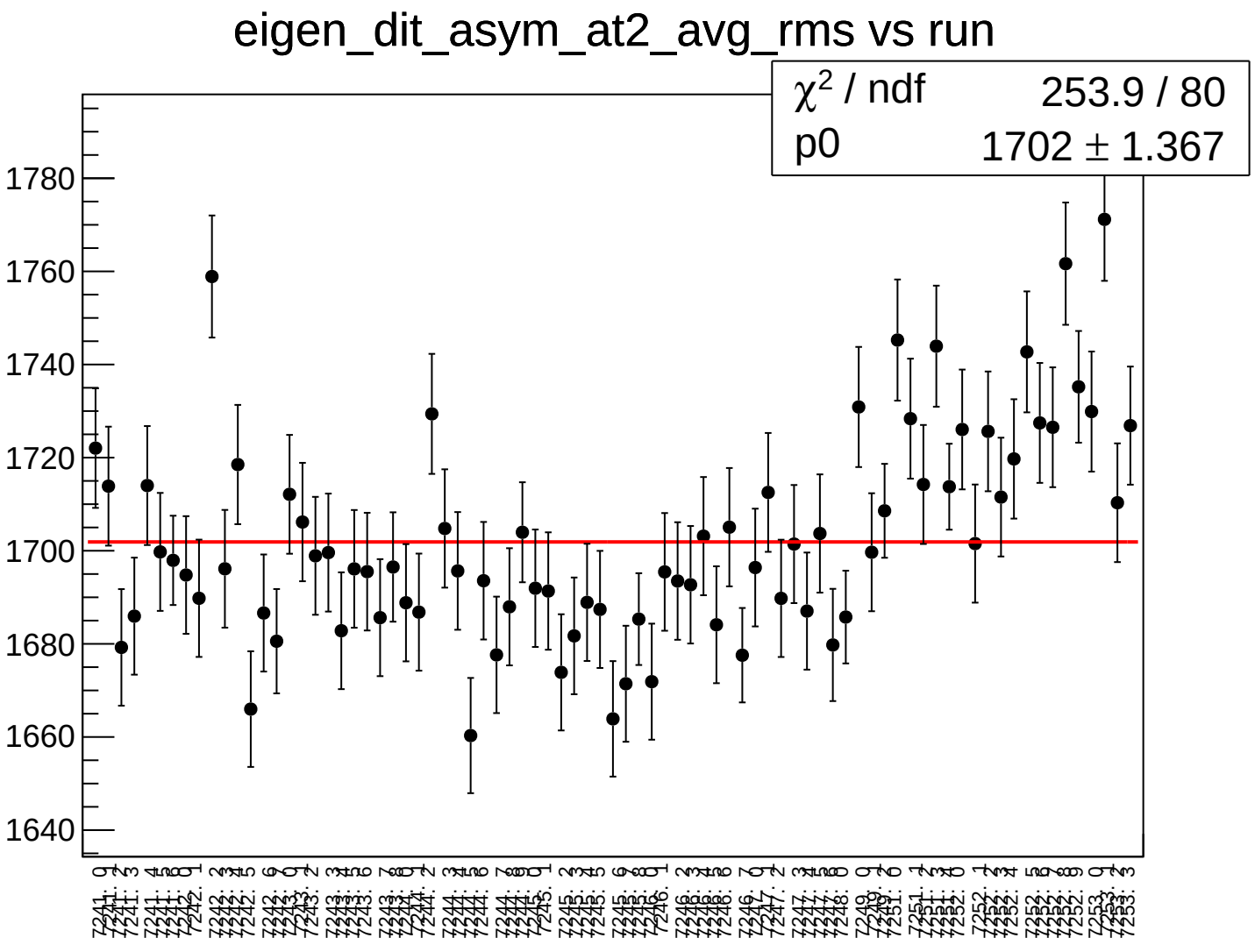

asym_at2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 95.59 / 80
p0 −1049 ± 8998
pull
Entries 81
Mean −97.36
Std Dev 0

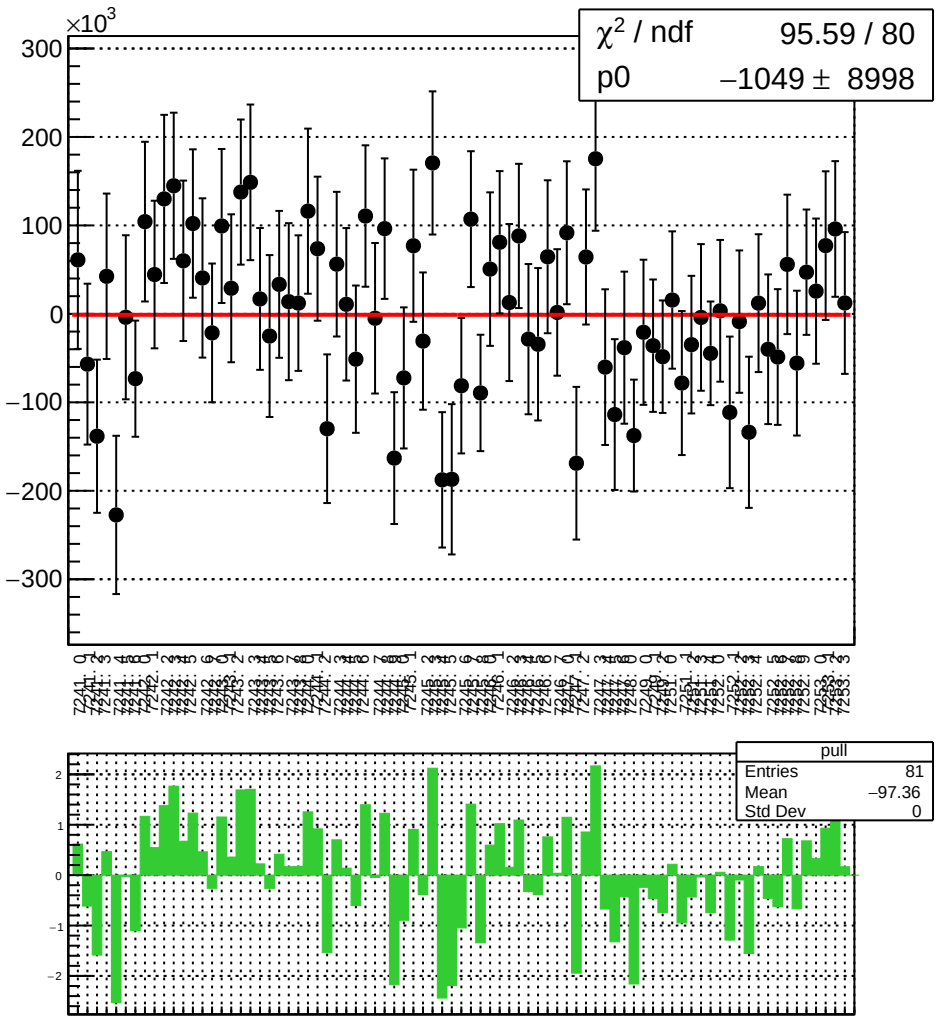

pull1D
Entries 81
Mean 0.02537
Std Dev 1.086

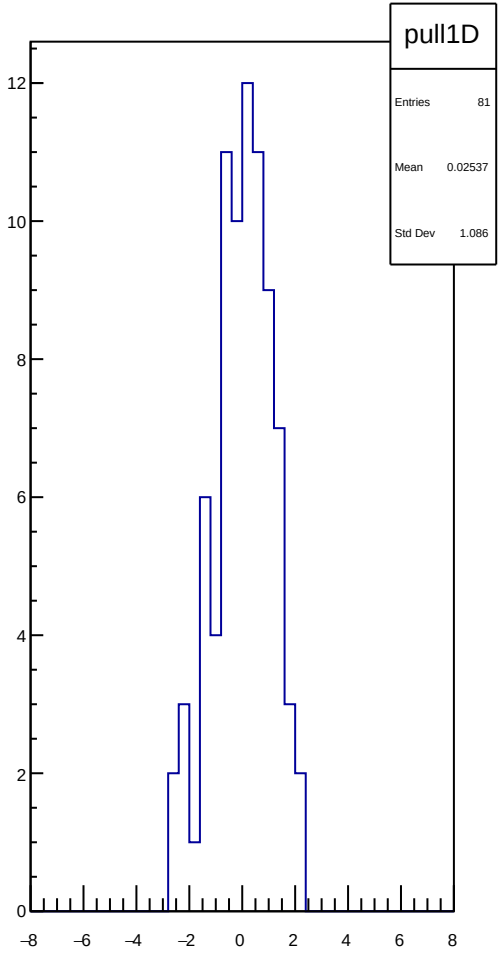

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 5048 / 80
p0 7906 ± 6.362
9500
9000
8500
8000
7500
7000

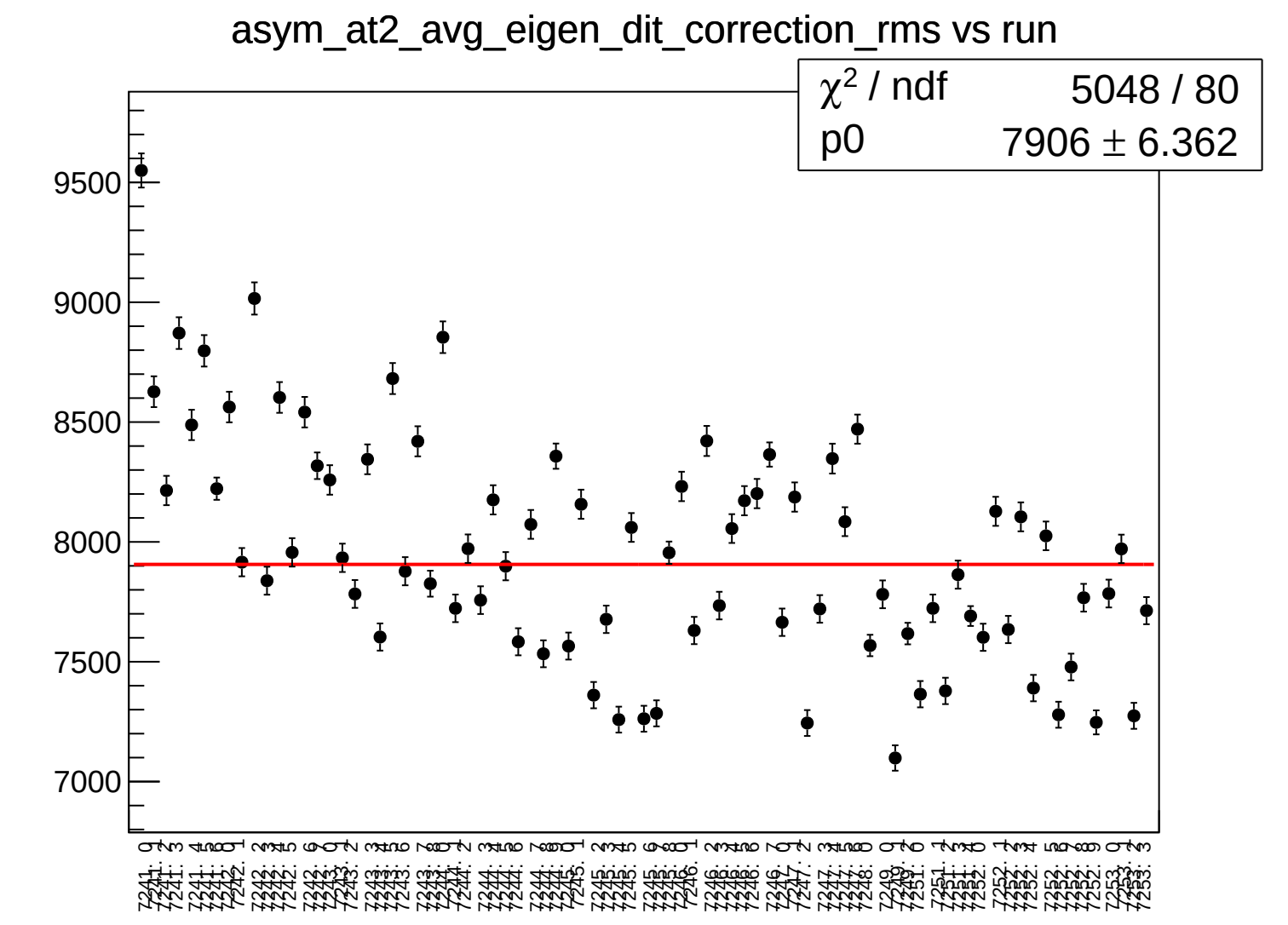

eigen_dit_asym_at2_avg_mean vs run
χ² / ndf 69.24 / 80
p0 2157 ± 1934
pull
Entries 81
Mean −1325
Std Dev 0

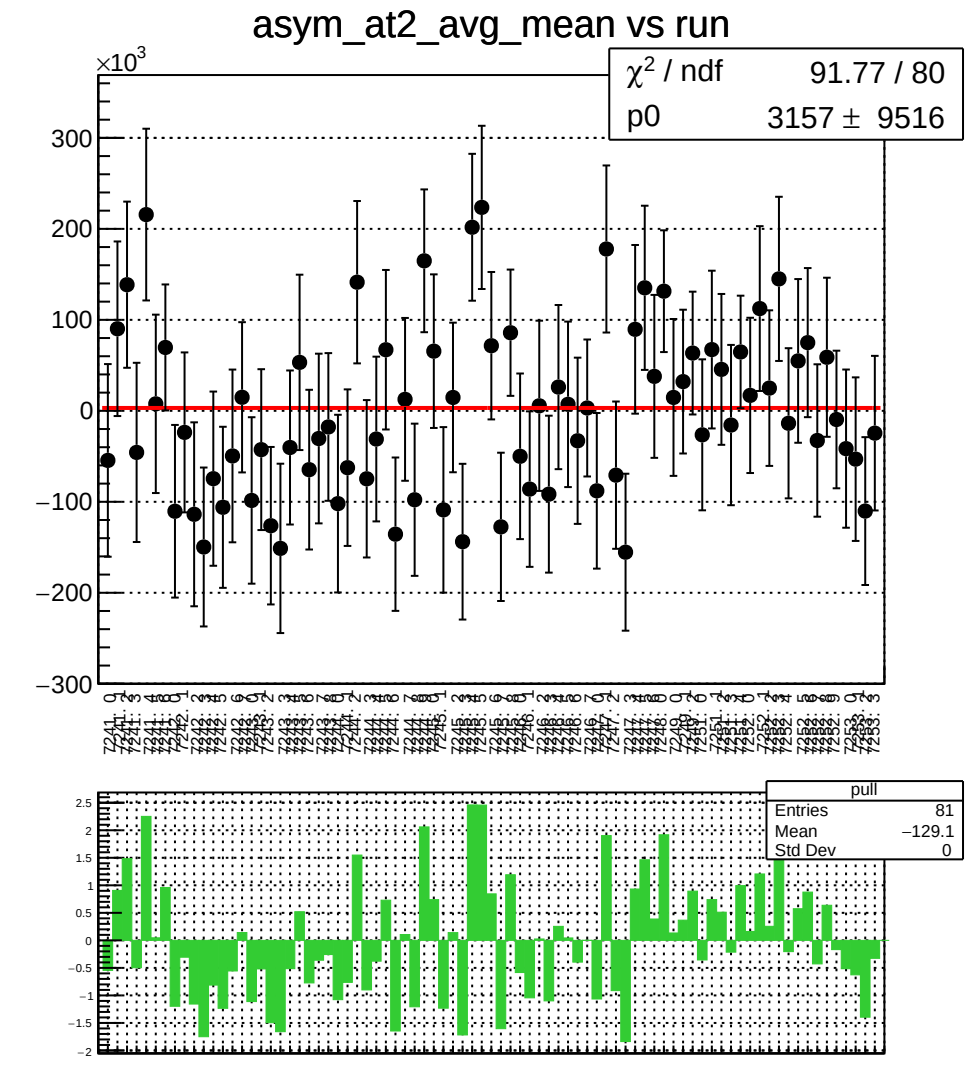

pull1D
Entries 81
Mean −0.002922
Std Dev 0.9245

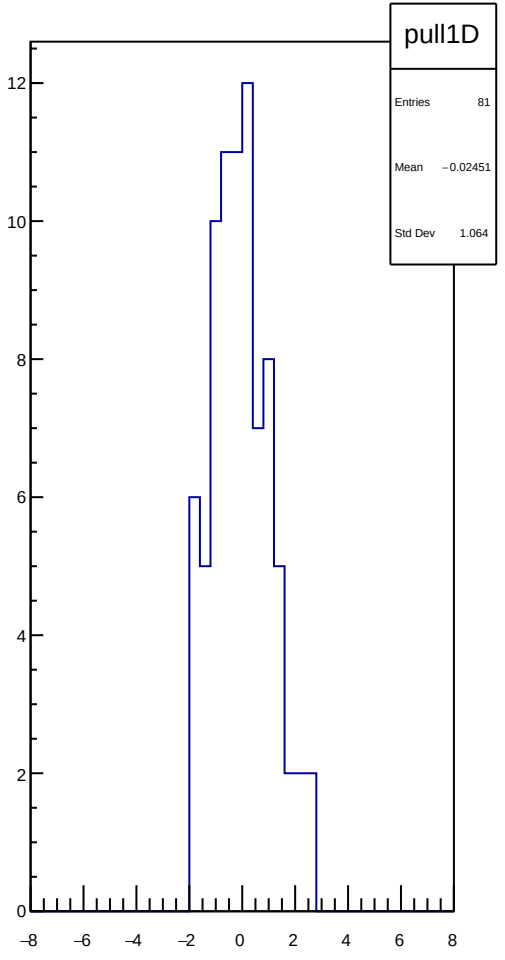

eigen_dit_asym_at2_avg_rms vs run
χ² / ndf 253.9 / 80
p0 1702 ± 1.367
1780
1760
1740
1720
1700
1680
1660
1640

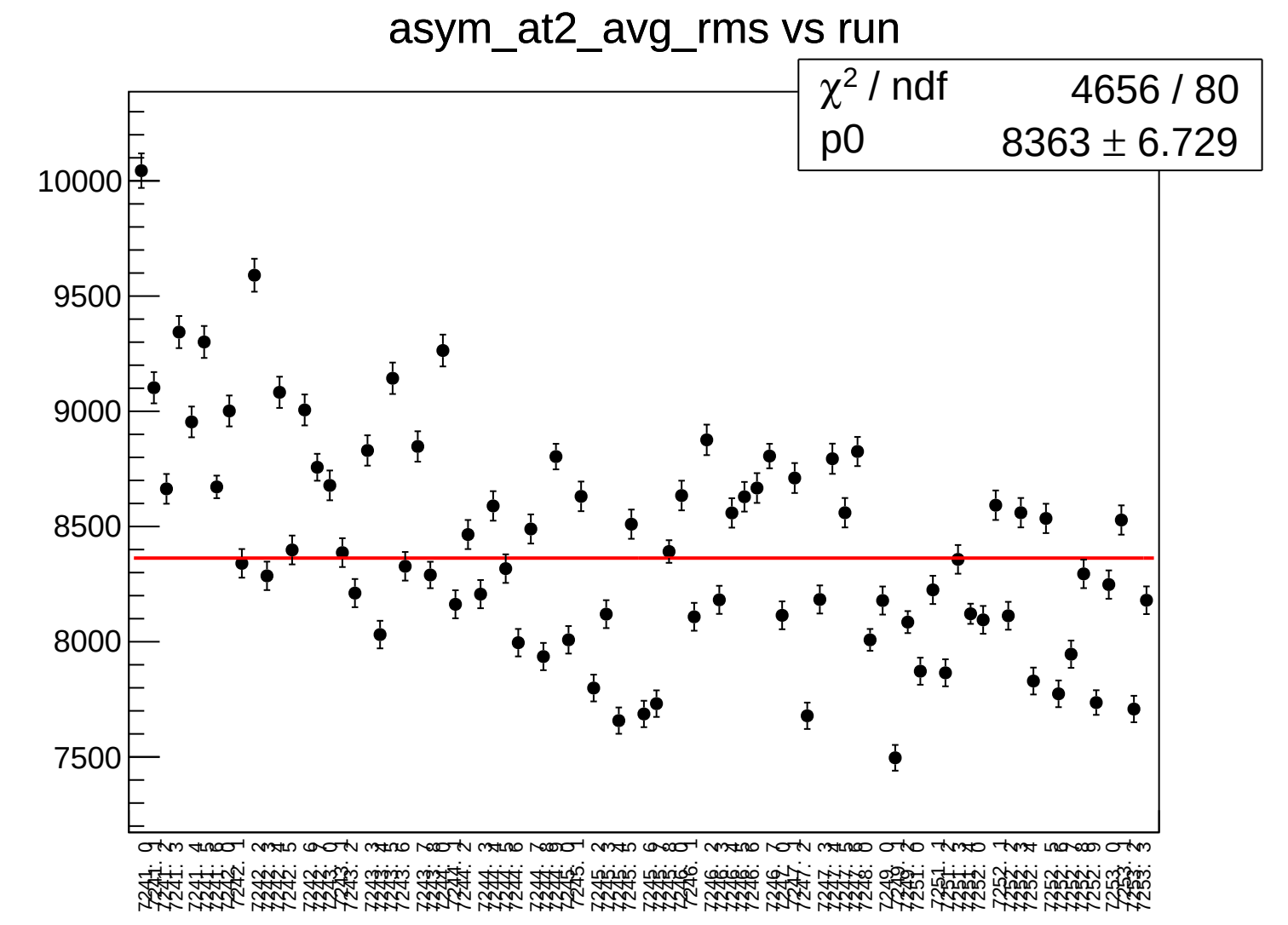

asym_at2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 95.59 / 80
p0 −1049 ± 8998
pull
Entries 81
Mean −97.36
Std Dev 0

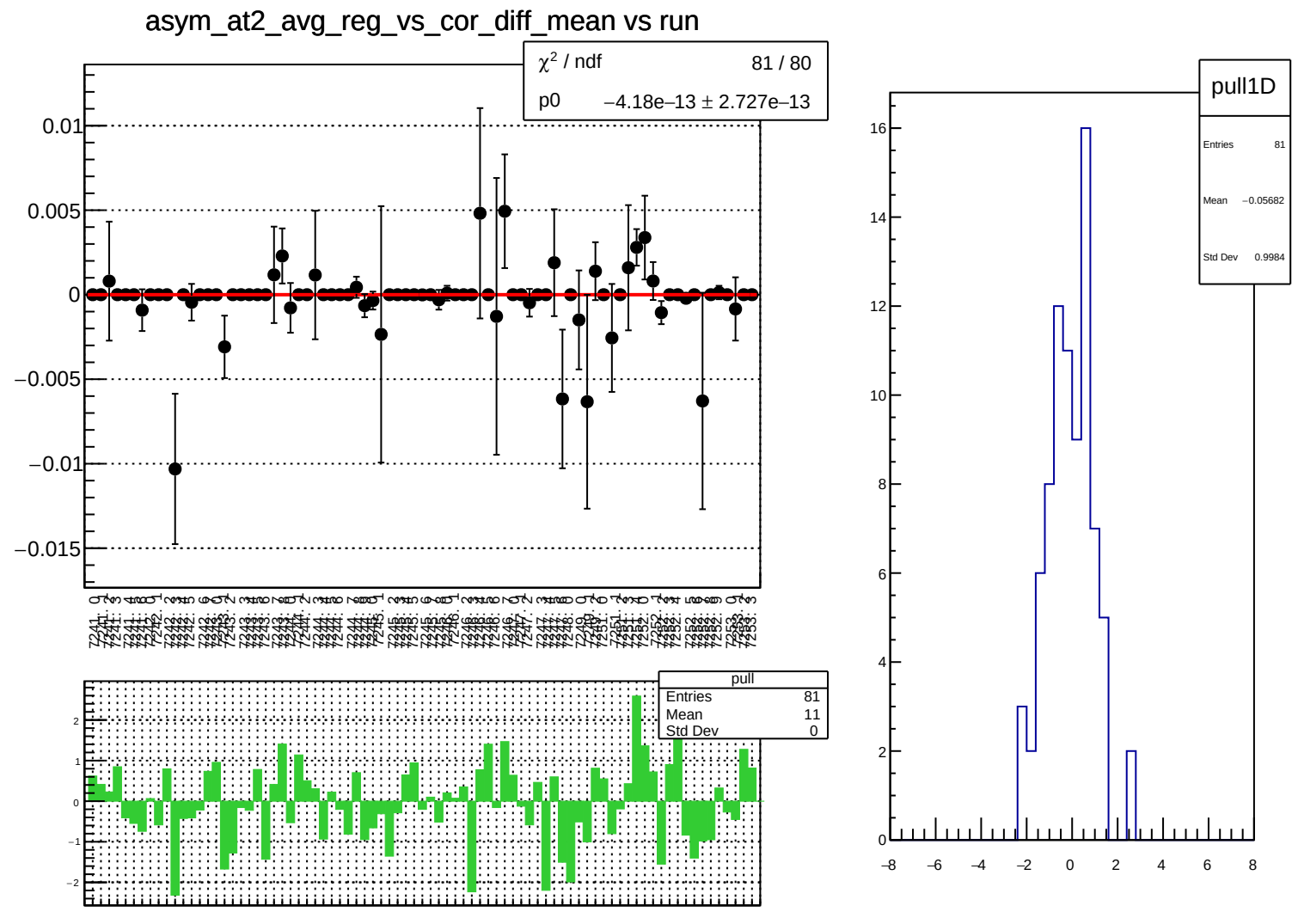

pull1D
Entries 81
Mean 0.02537
Std Dev 1.086

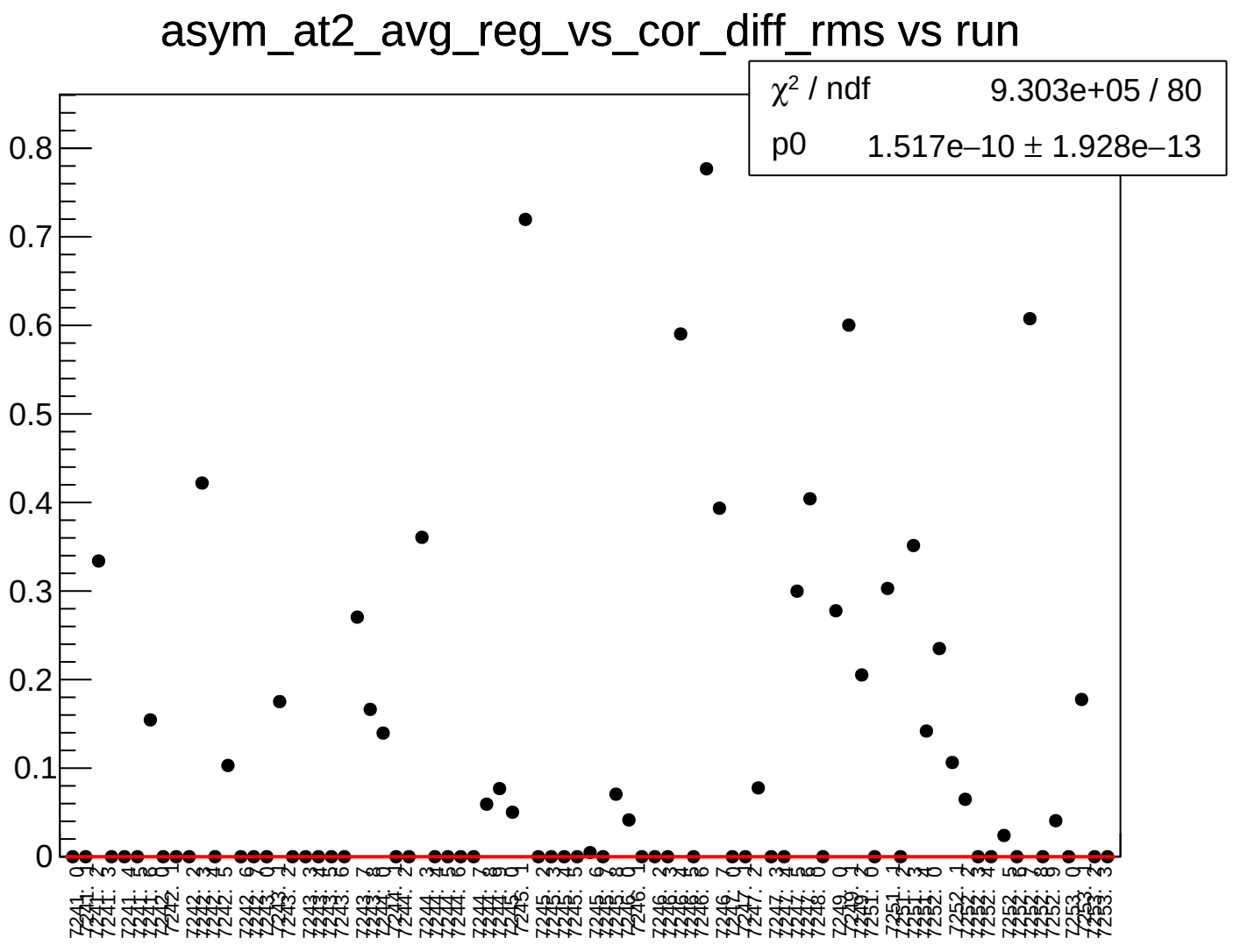

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 5048 / 80
p0 7906 ± 6.362
9500
9000
8500
8000
7500
7000

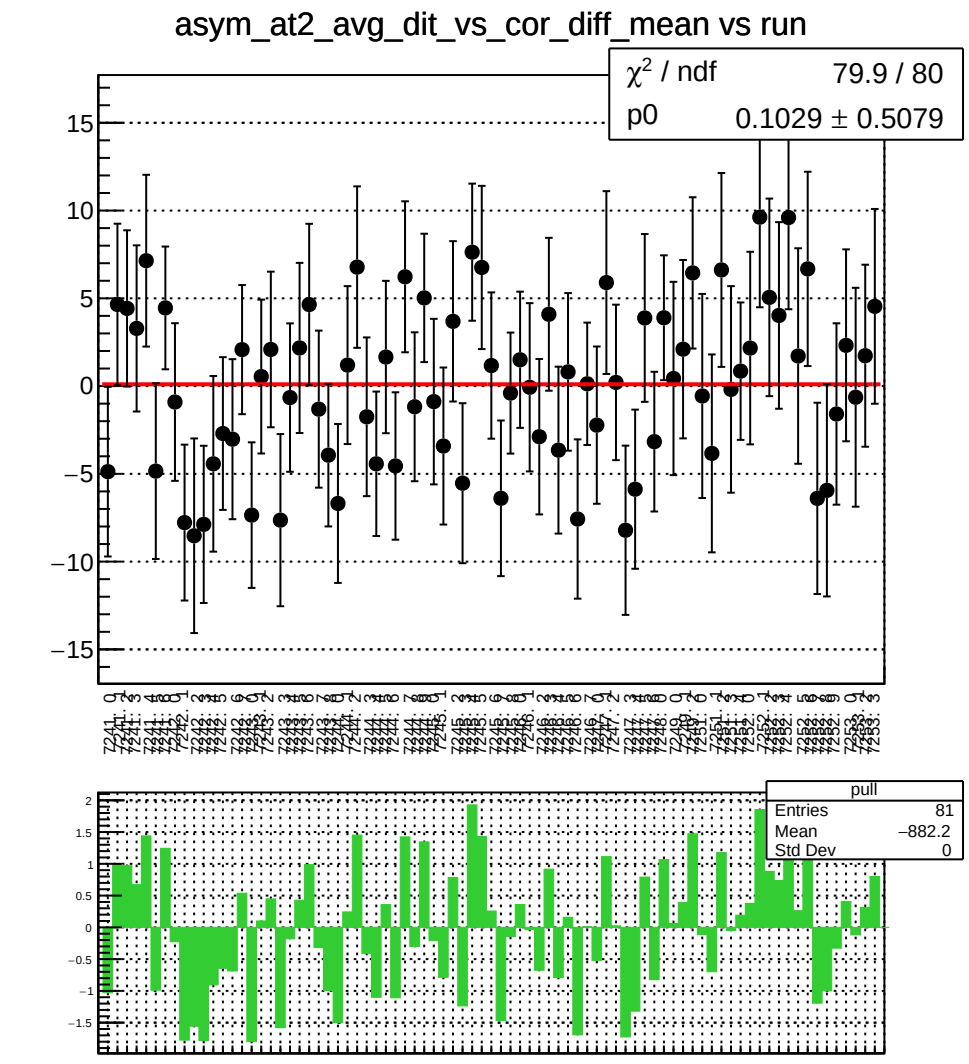

asym_at2_avg_mean vs run
×10^3
χ² / ndf 91.77 / 80
p0 3157 ± 9516
pull
Entries 81
Mean −129.1
Std Dev 0

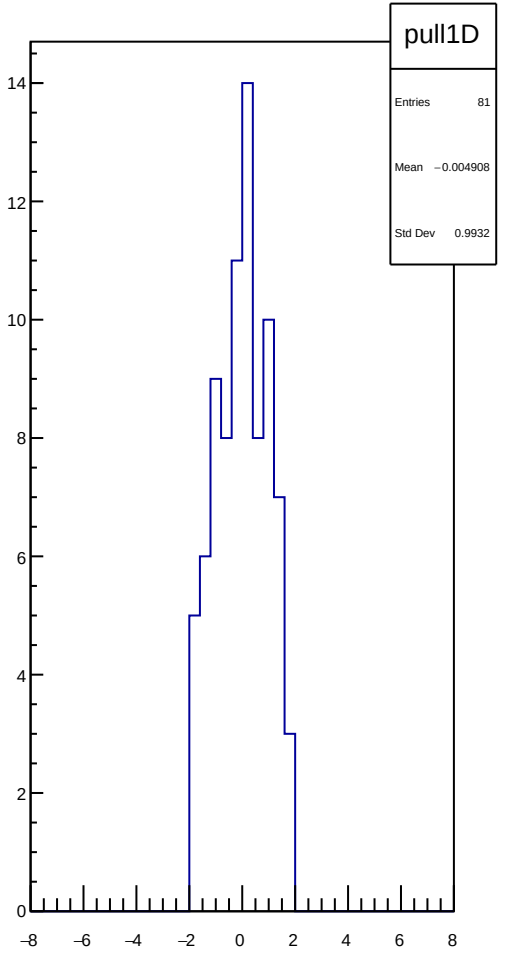

pull1D
Entries 81
Mean −0.02451
Std Dev 1.064

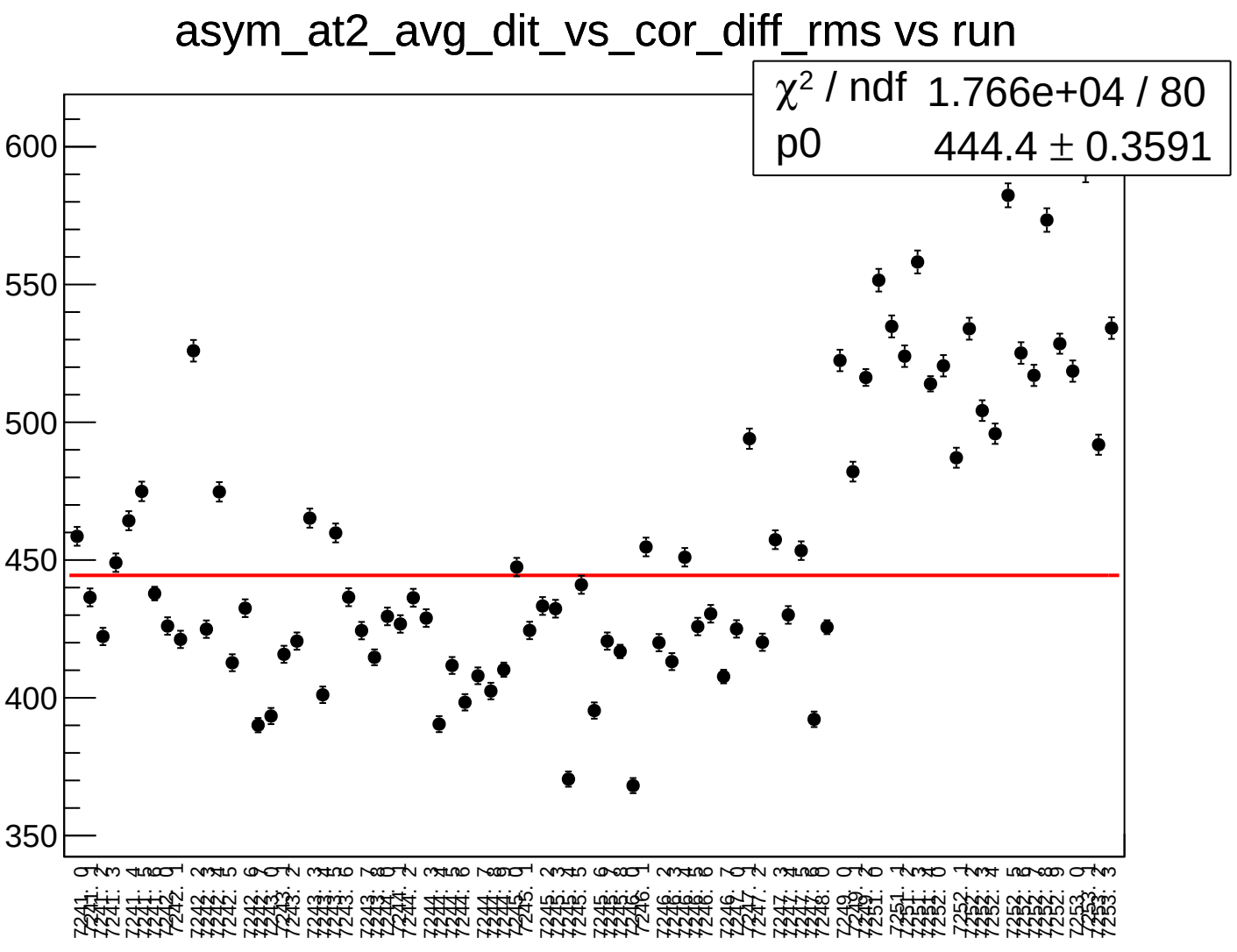

asym_at2_avg_rms vs run
χ² / ndf 4656 / 80
p0 8363 ± 6.729
10000
9500
9000
8500
8000
7500

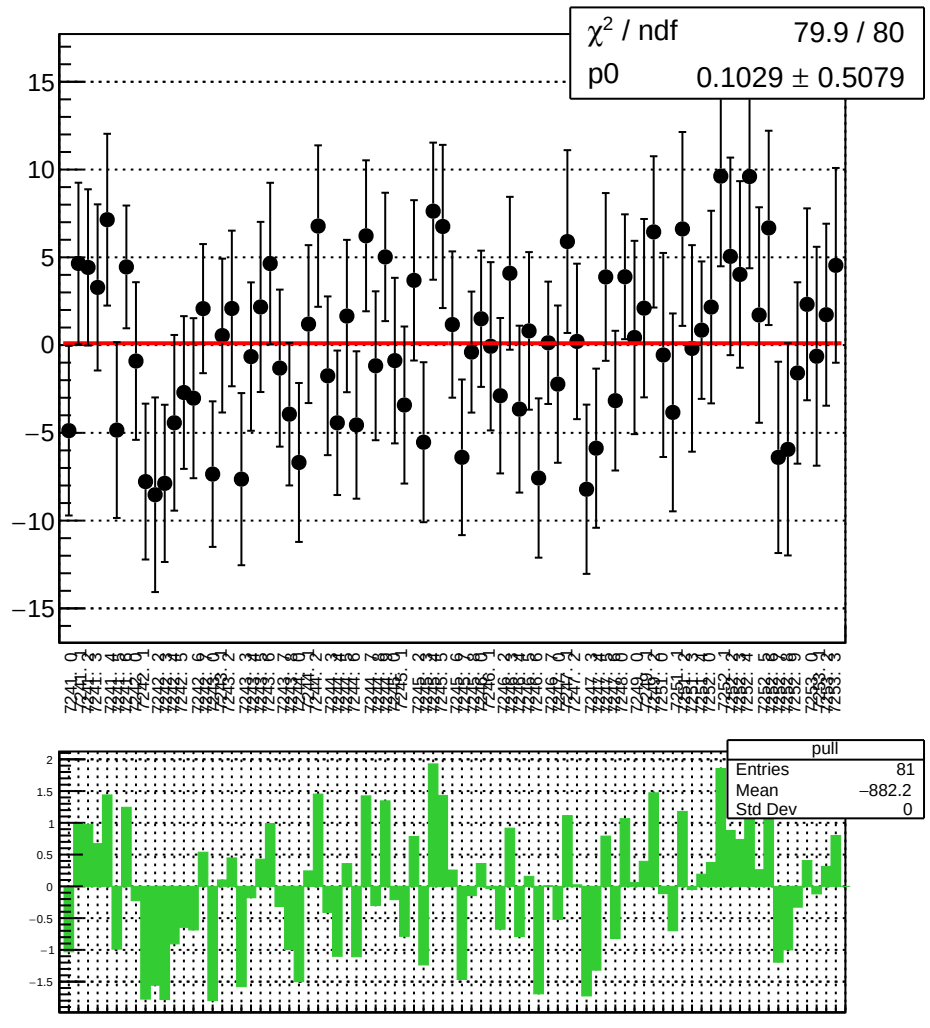

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 81 / 80
p0 −4.18e−13 ± 2.727e−13
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 81
Mean 11
Std Dev 0
pull1D
Entries 81
Mean −0.05682
Std Dev 0.9984
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

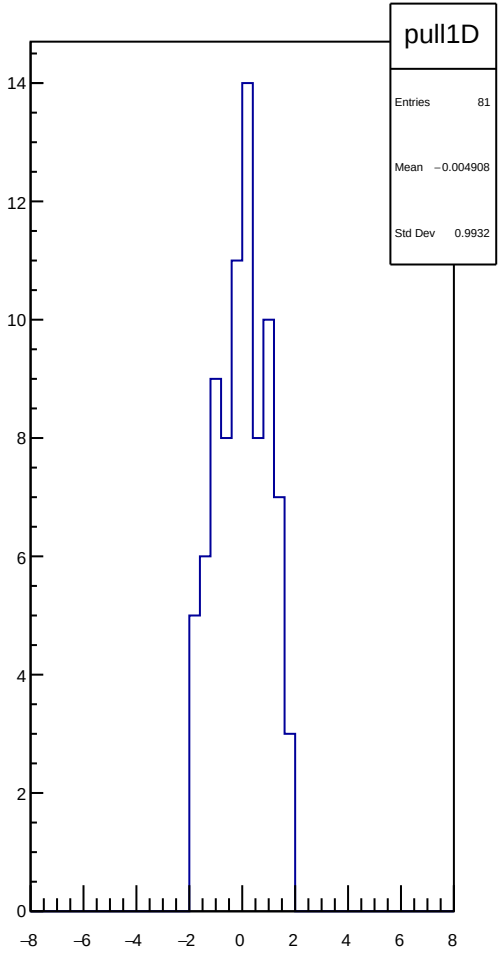

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.303e+05 / 80
p0 1.517e−10 ± 1.928e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

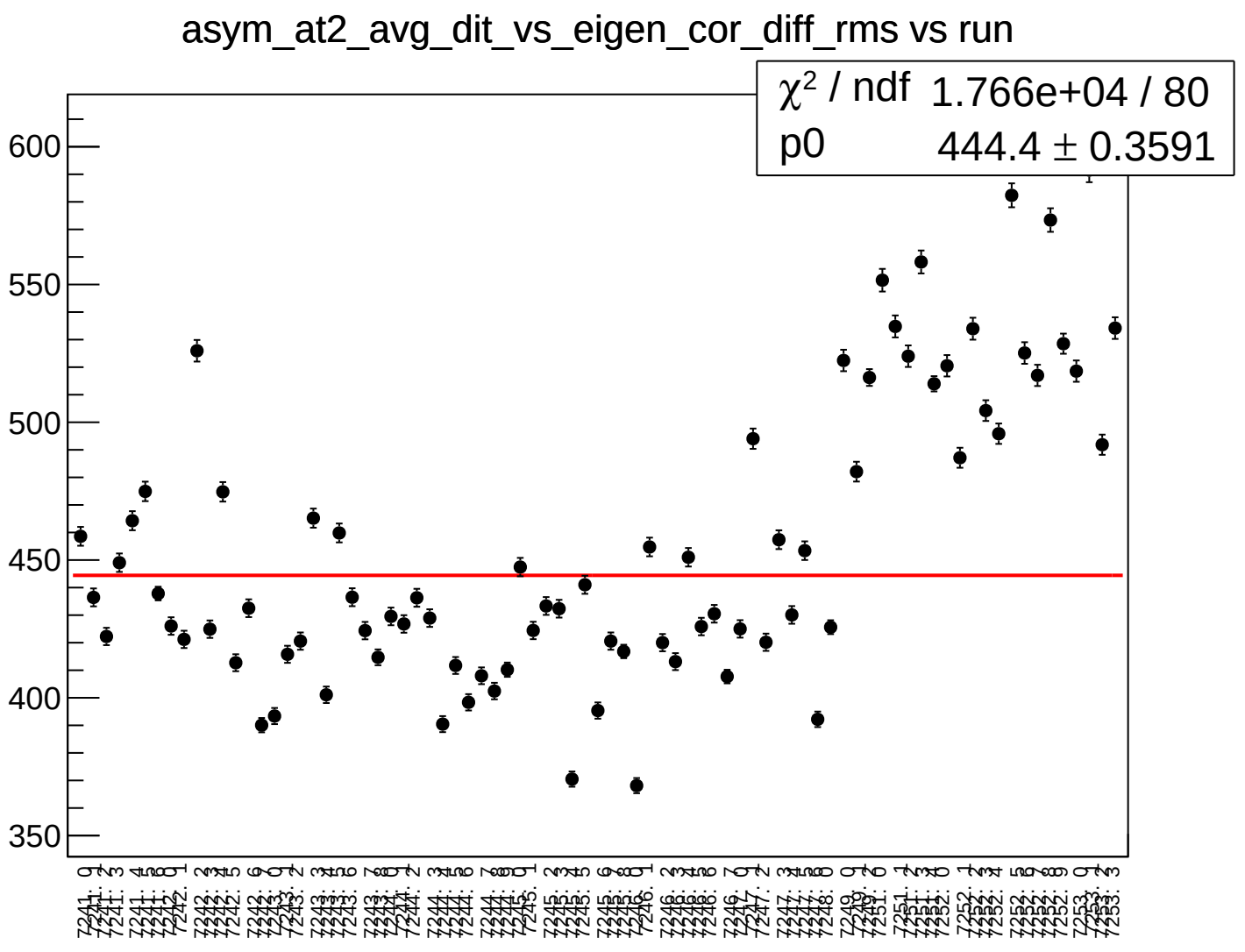

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 79.9 / 80
p0 0.1029 ± 0.5079
pull
Entries 81
Mean −882.2
Std Dev 0

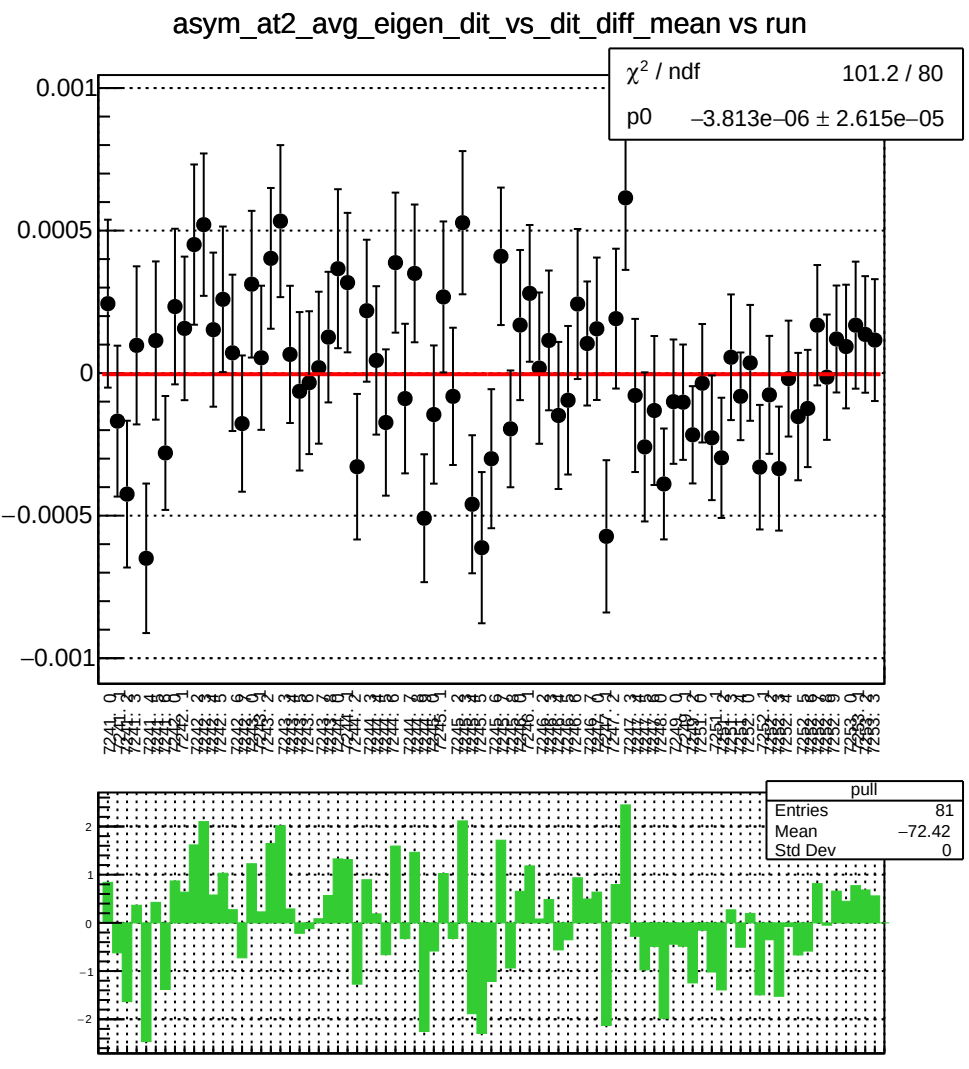

pull1D
Entries 81
Mean −0.004908
Std Dev 0.9932

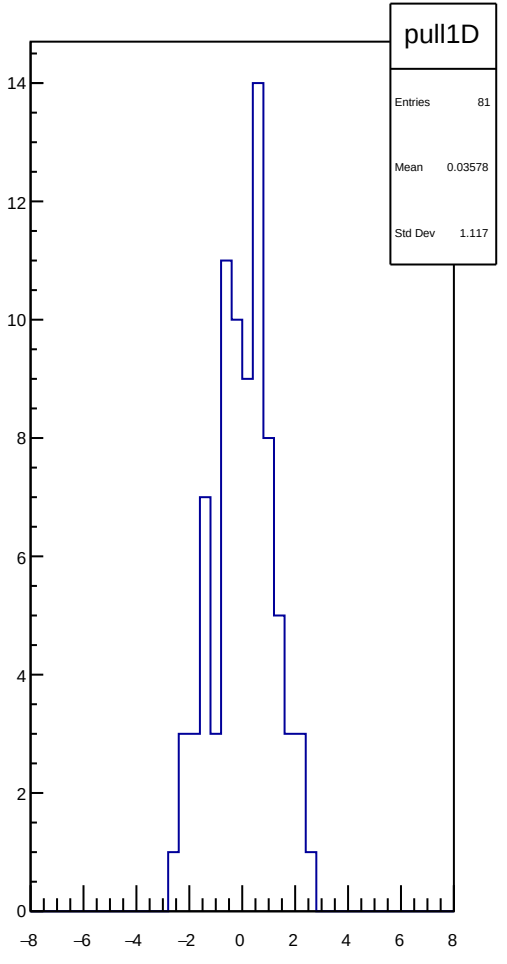

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.766e+04 / 80
p0 444.4 ± 0.3591
600
550
500
450
400
350

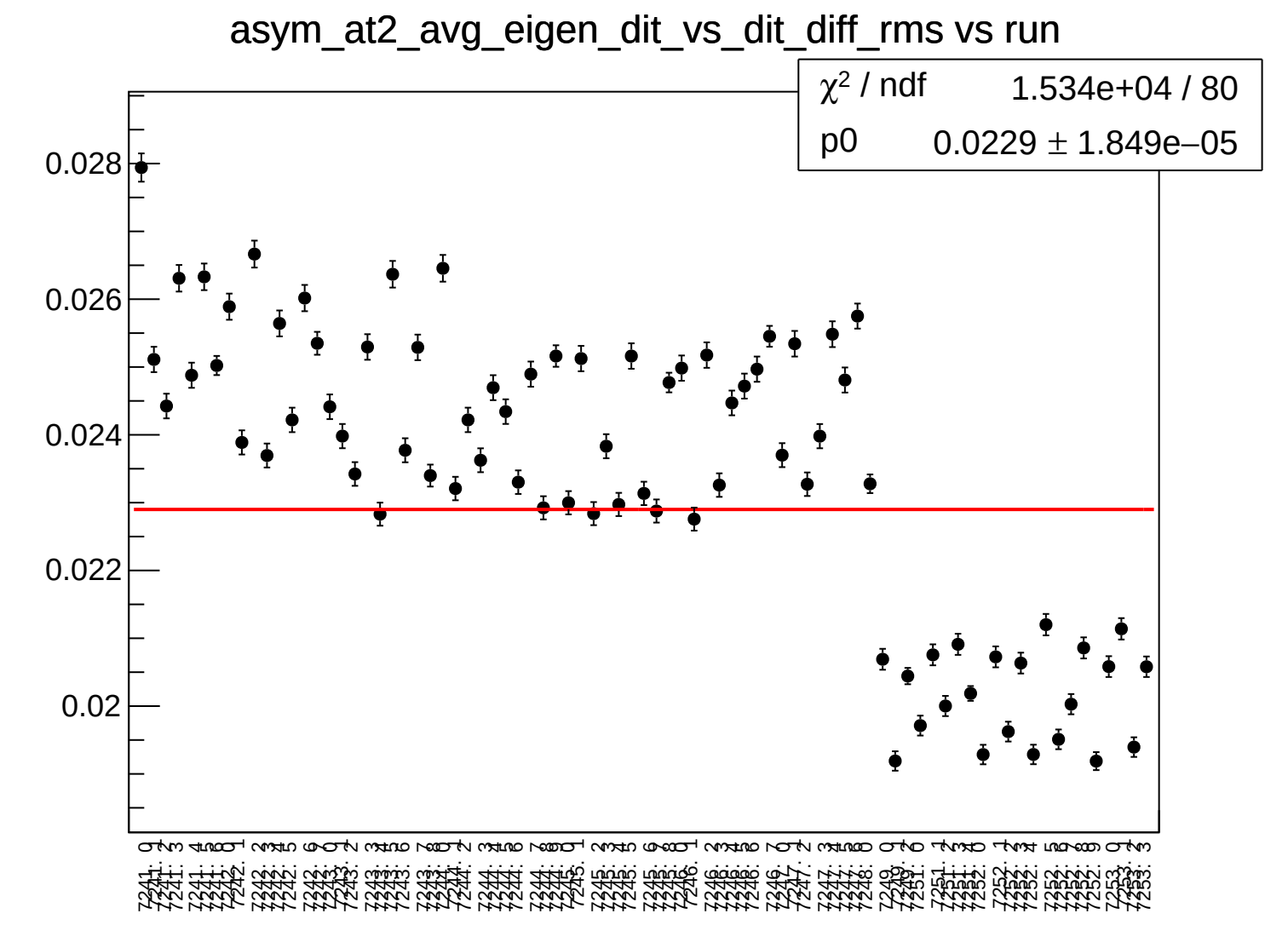

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.9 / 80
p0 0.1029 ± 0.5079
pull
Entries 81
Mean −882.2
Std Dev 0

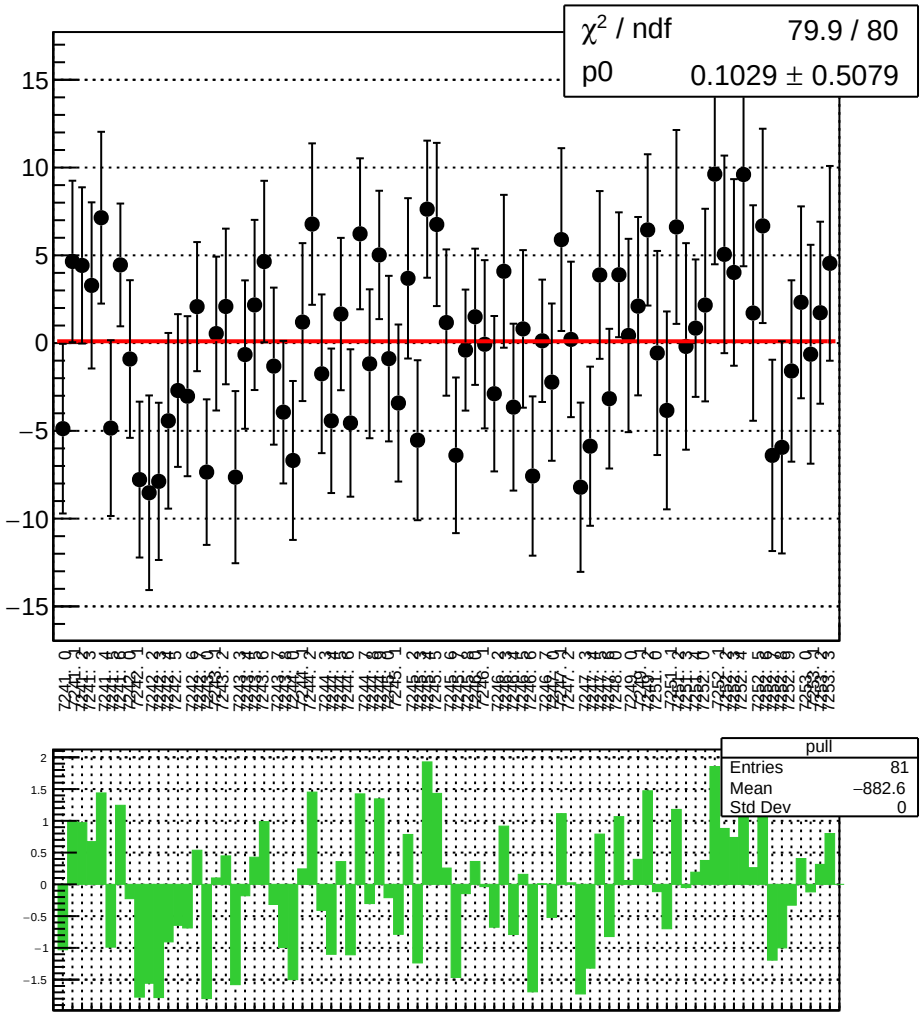

pull1D
Entries 81
Mean −0.004908
Std Dev 0.9932

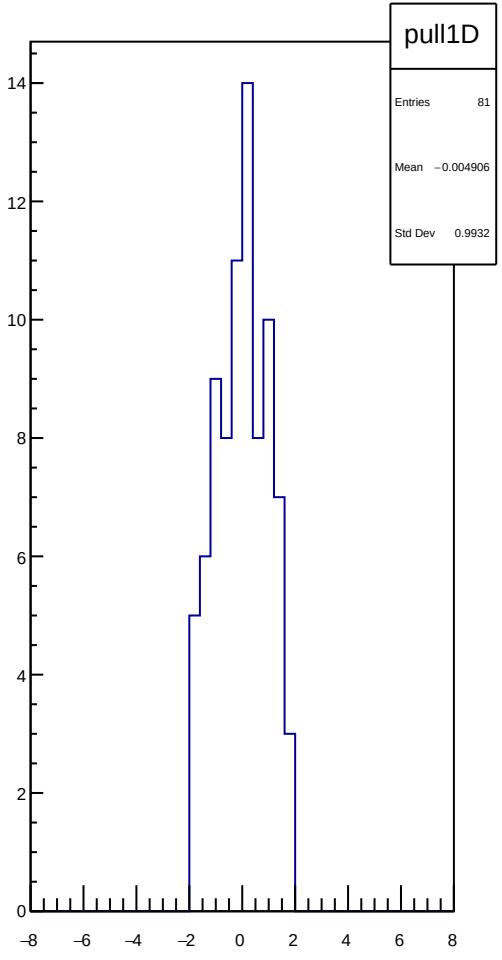

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.766e+04 / 80
p0 444.4 ± 0.3591
600
550
500
450
400
350

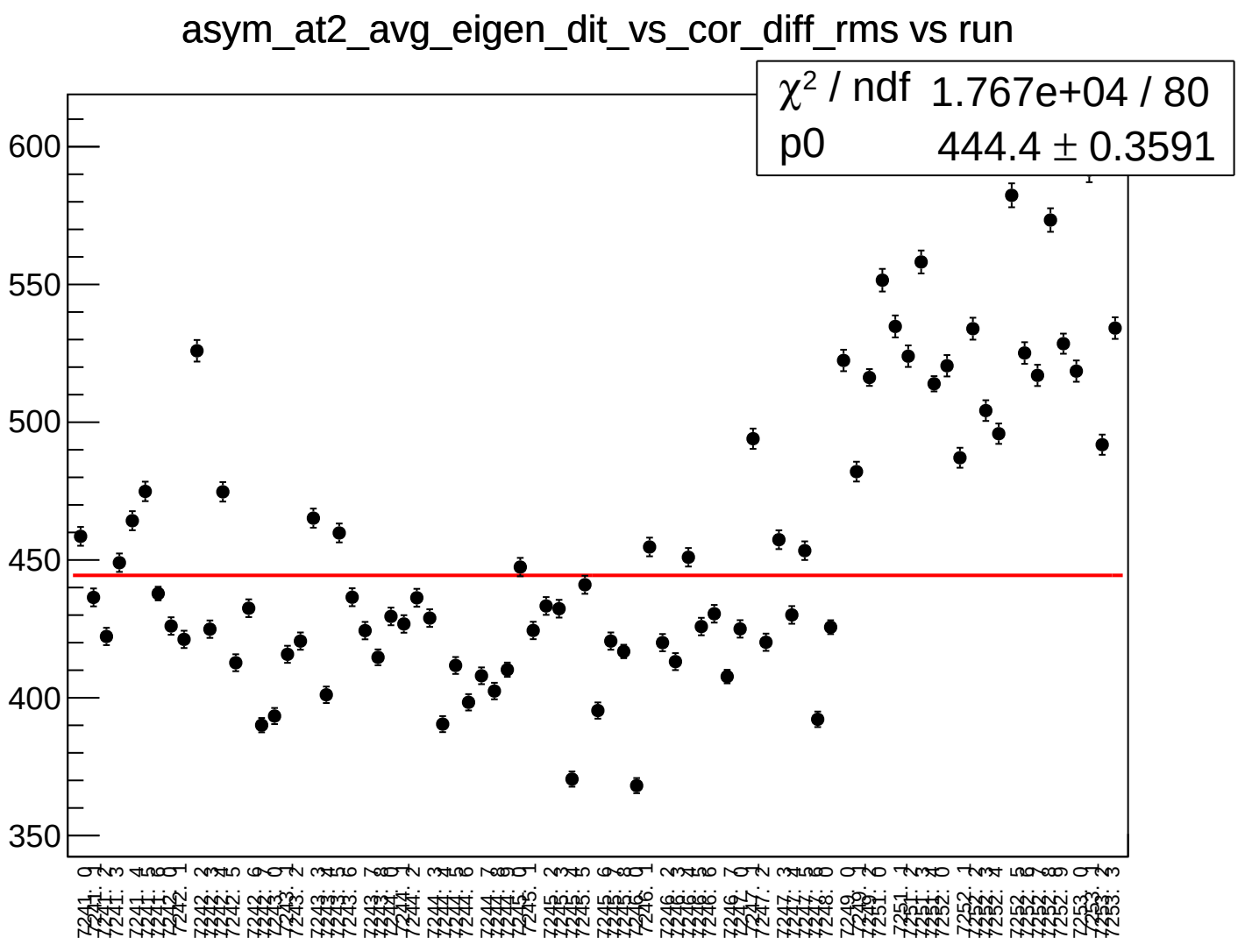

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 101.2 / 80
p0 −3.813e−06 ± 2.615e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 81
Mean −72.42
Std Dev 0

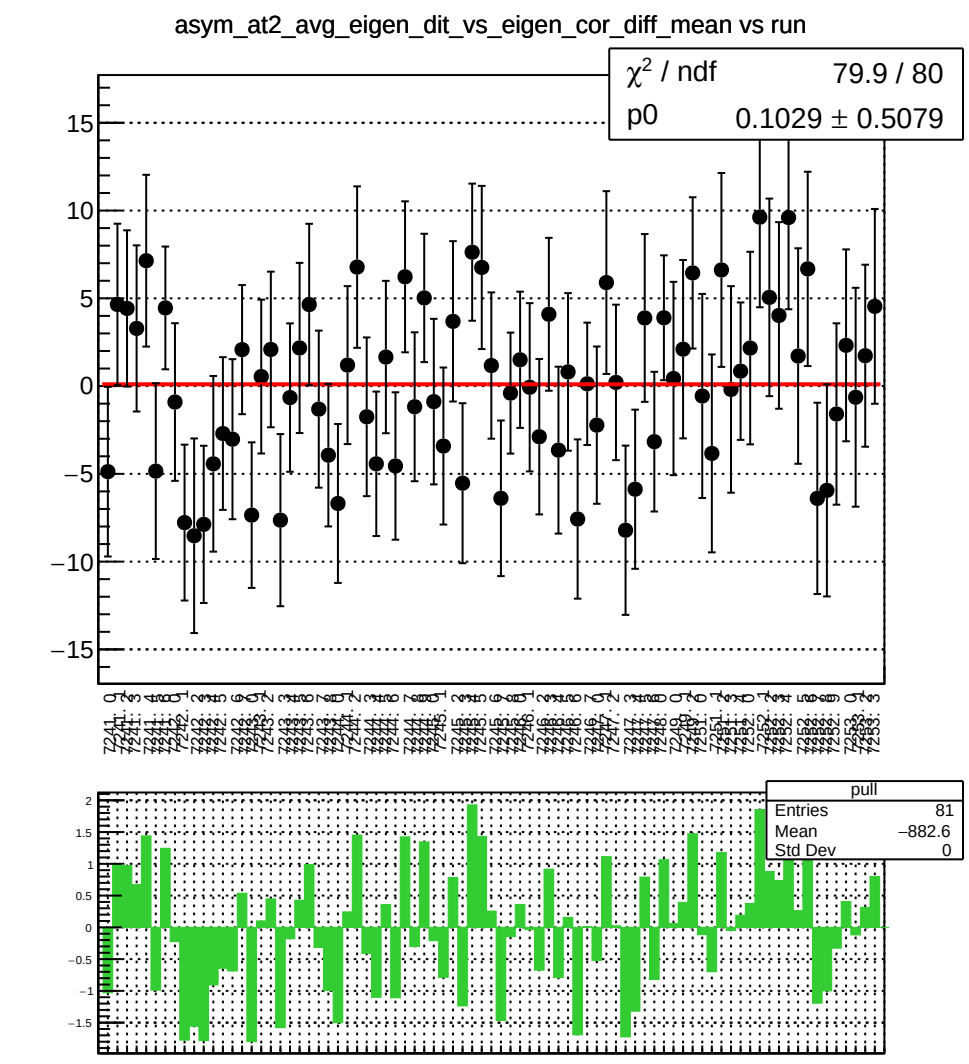

pull1D
Entries 81
Mean 0.03578
Std Dev 1.117

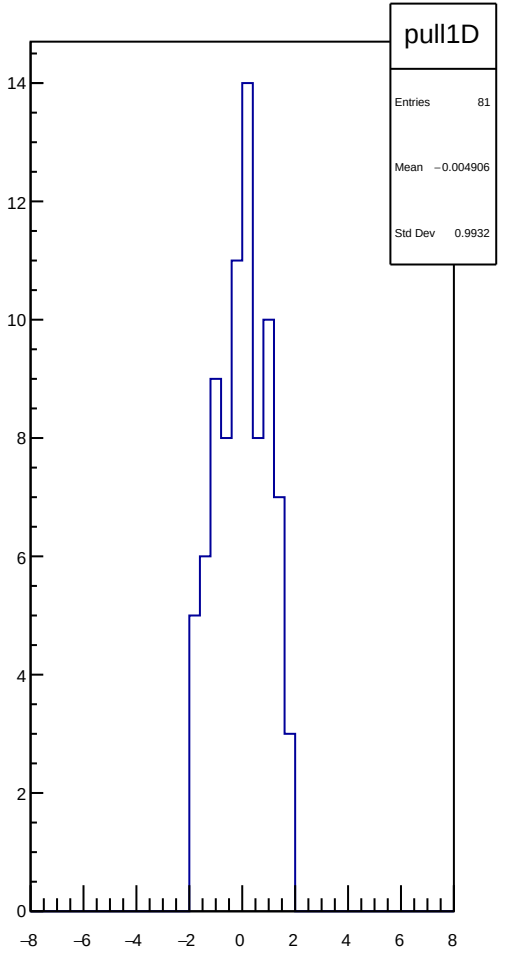

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.534e+04 / 80
p0 0.0229 ± 1.849e−05
0.028
0.026
0.024
0.022
0.02

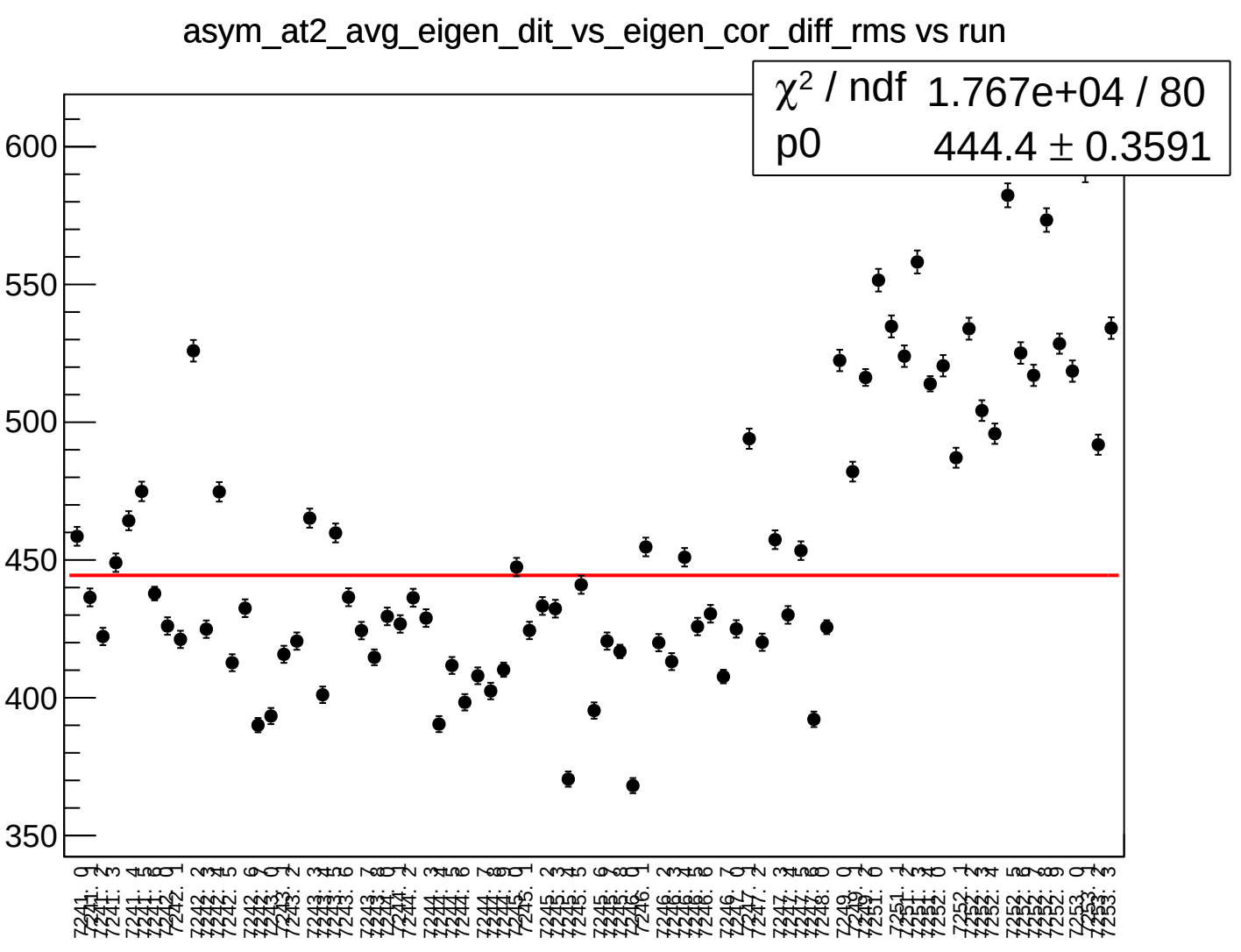

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.9 / 80
p0 0.1029 ± 0.5079
pull
Entries 81
Mean −882.6
Std Dev 0

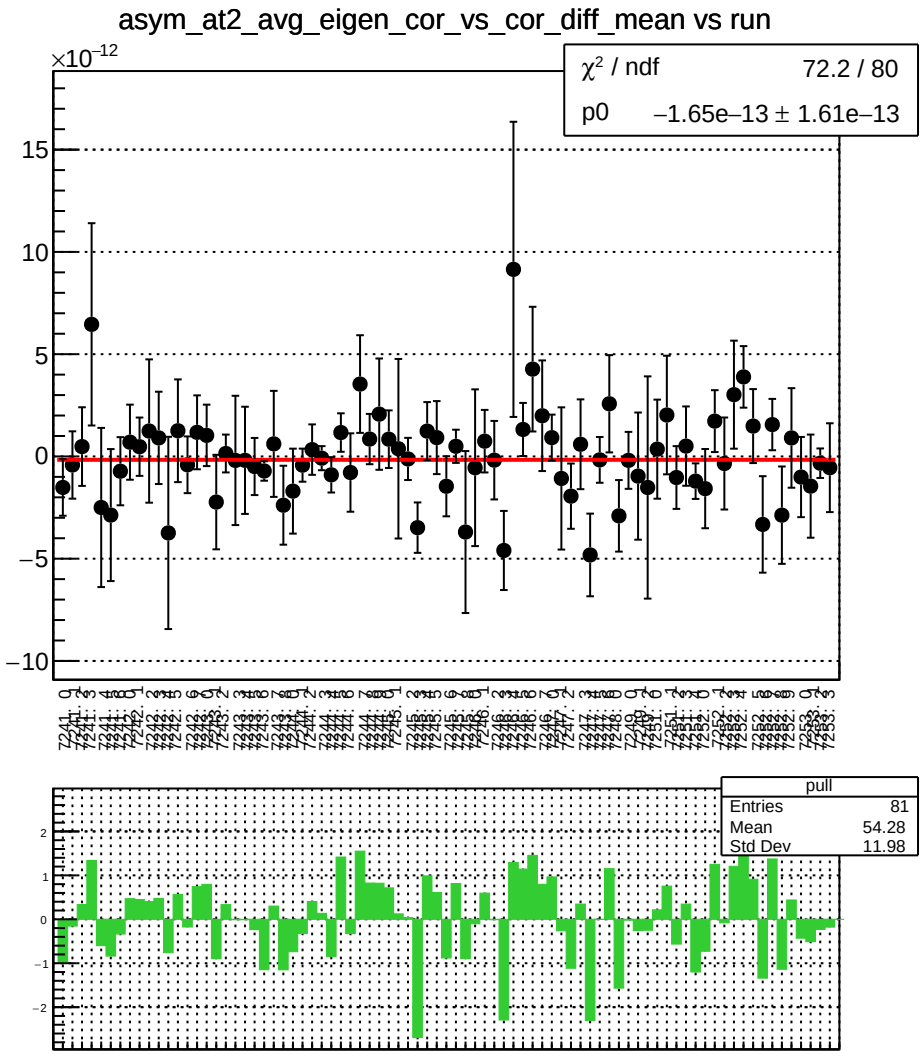

pull1D
Entries 81
Mean −0.004906
Std Dev 0.9932

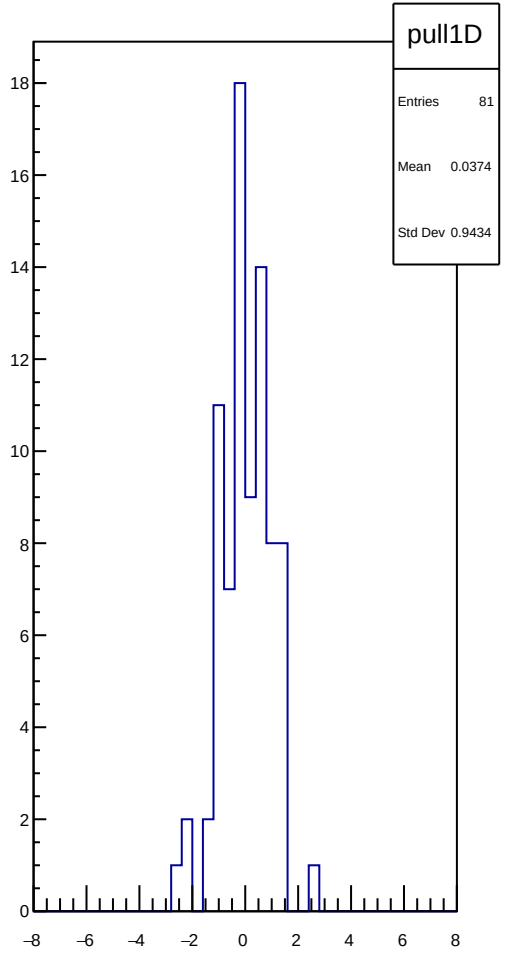

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.767e+04 / 80
p0 444.4 ± 0.3591
600
550
500
450
400
350

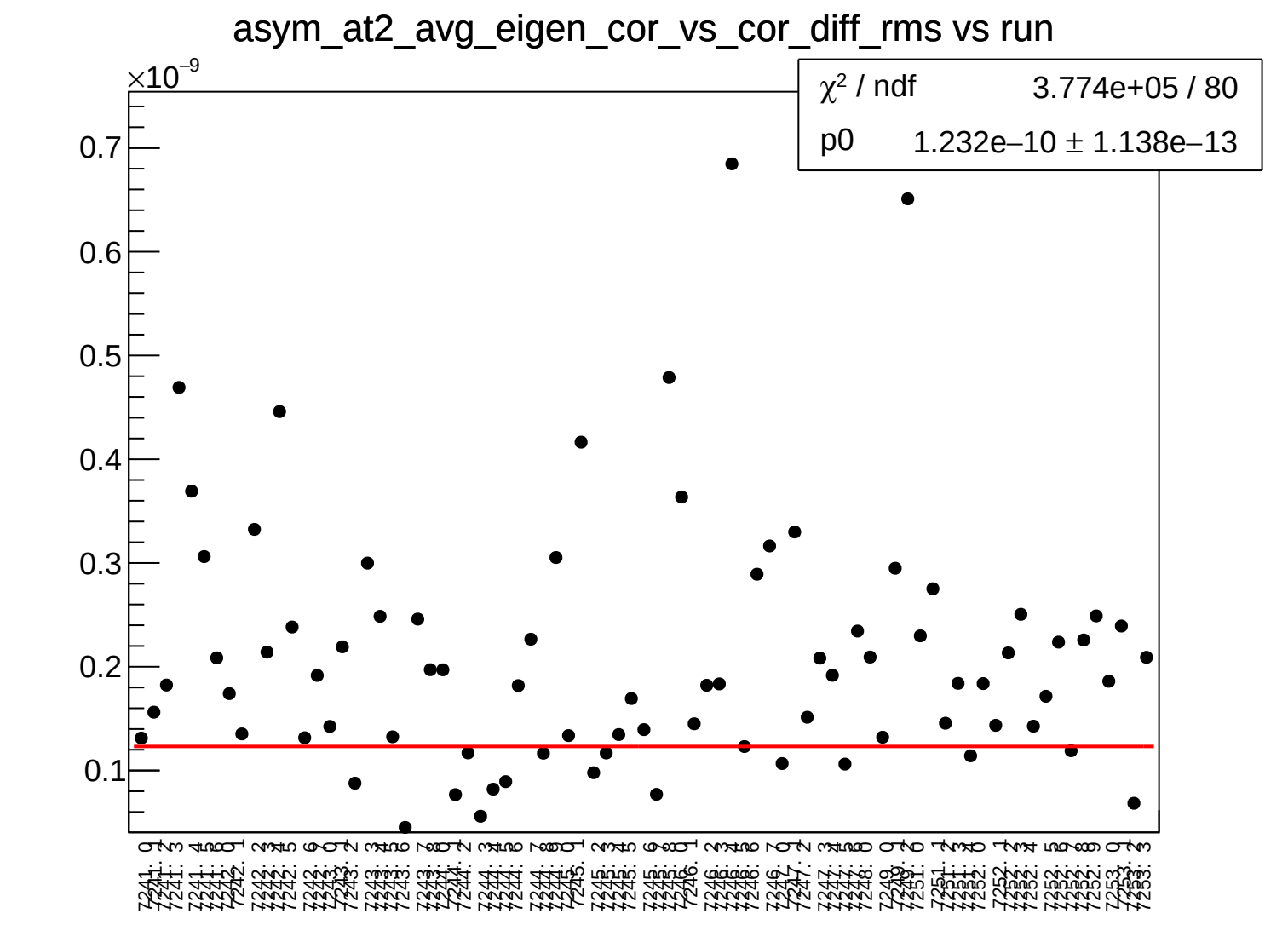

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.9 / 80
p0 0.1029 ± 0.5079
pull
Entries 81
Mean −882.6
Std Dev 0

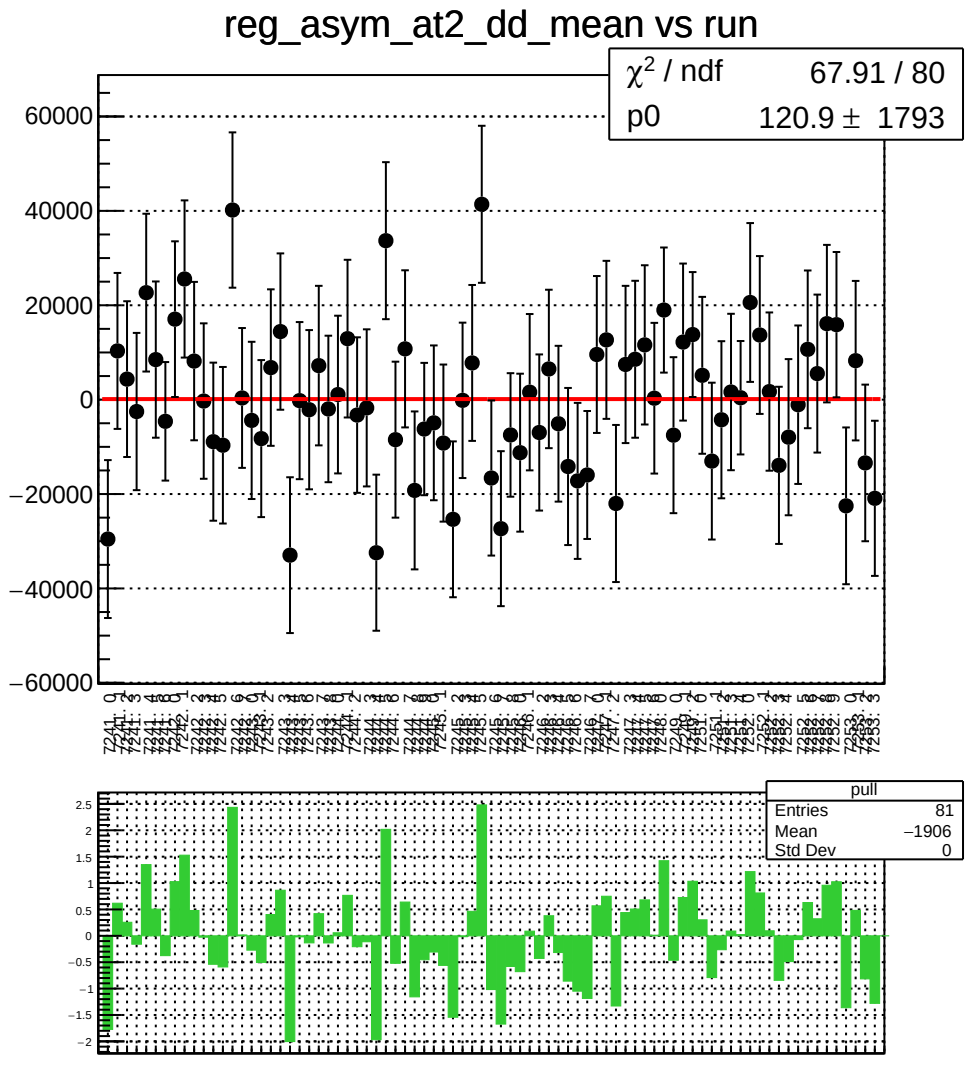

pull1D
Entries 81
Mean −0.004906
Std Dev 0.9932

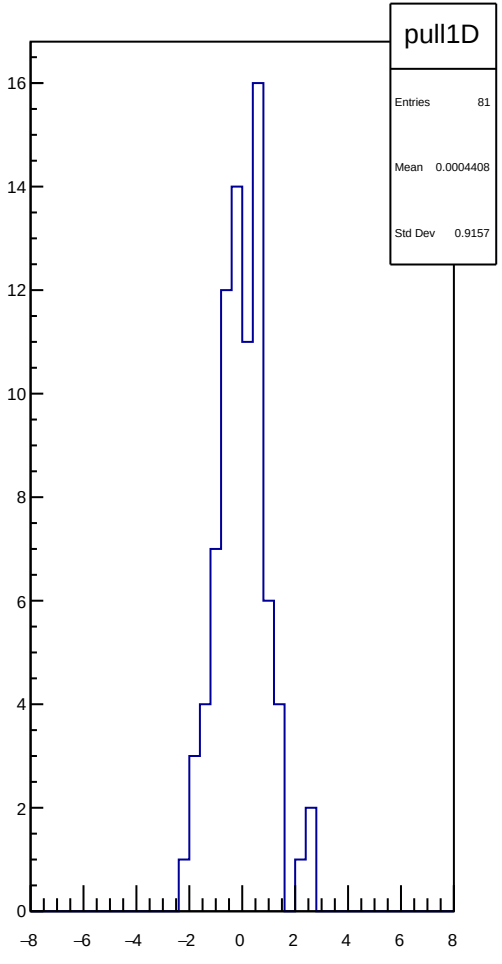

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.767e+04 / 80
p0 444.4 ± 0.3591
600
550
500
450
400
350

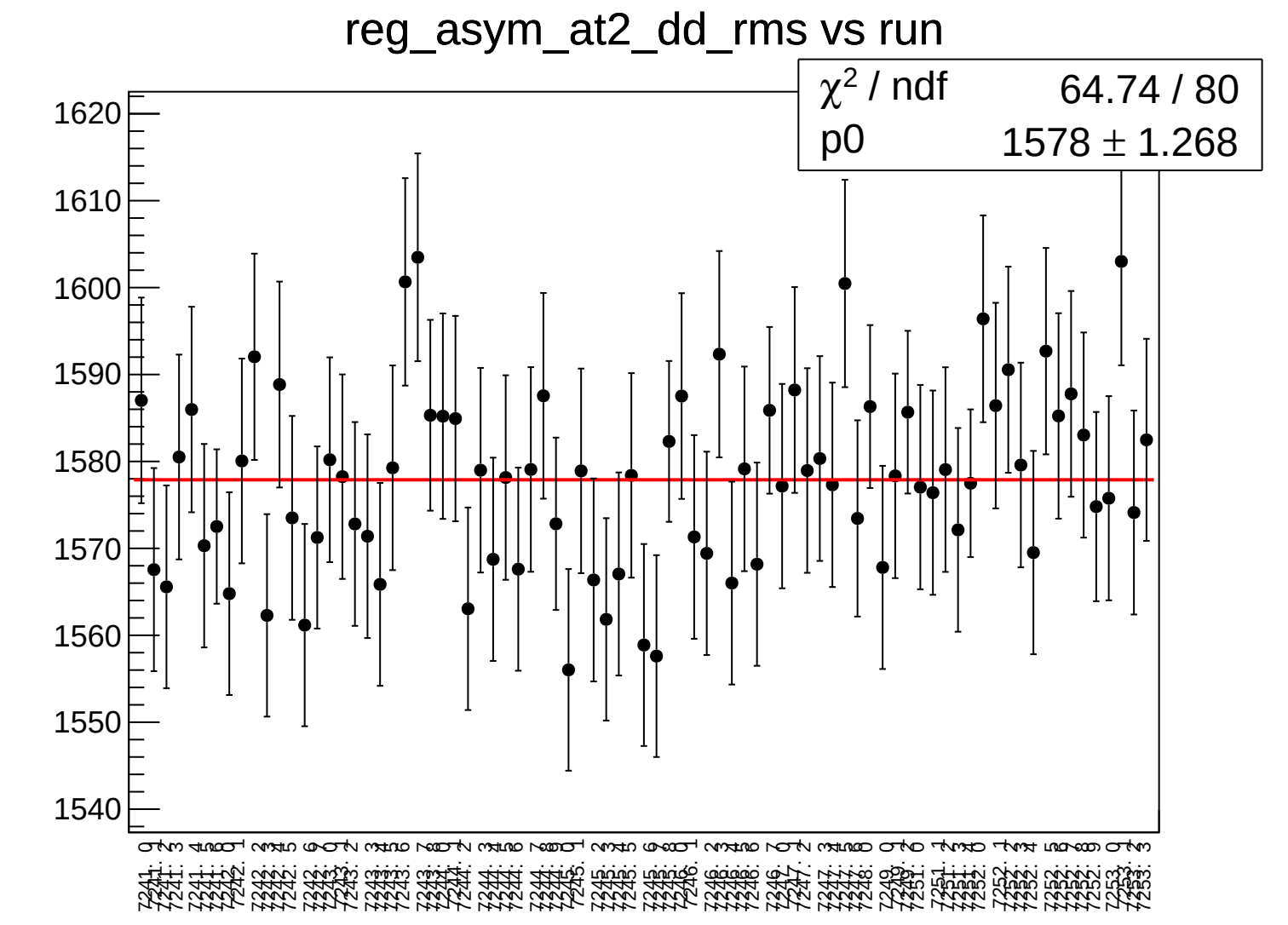

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.2 / 80
p0 −1.65e−13 ± 1.61e−13
15
10
5
0
−5
−10
pull
Entries 81
Mean 54.28
Std Dev 11.98
2
1
0
−1
−2

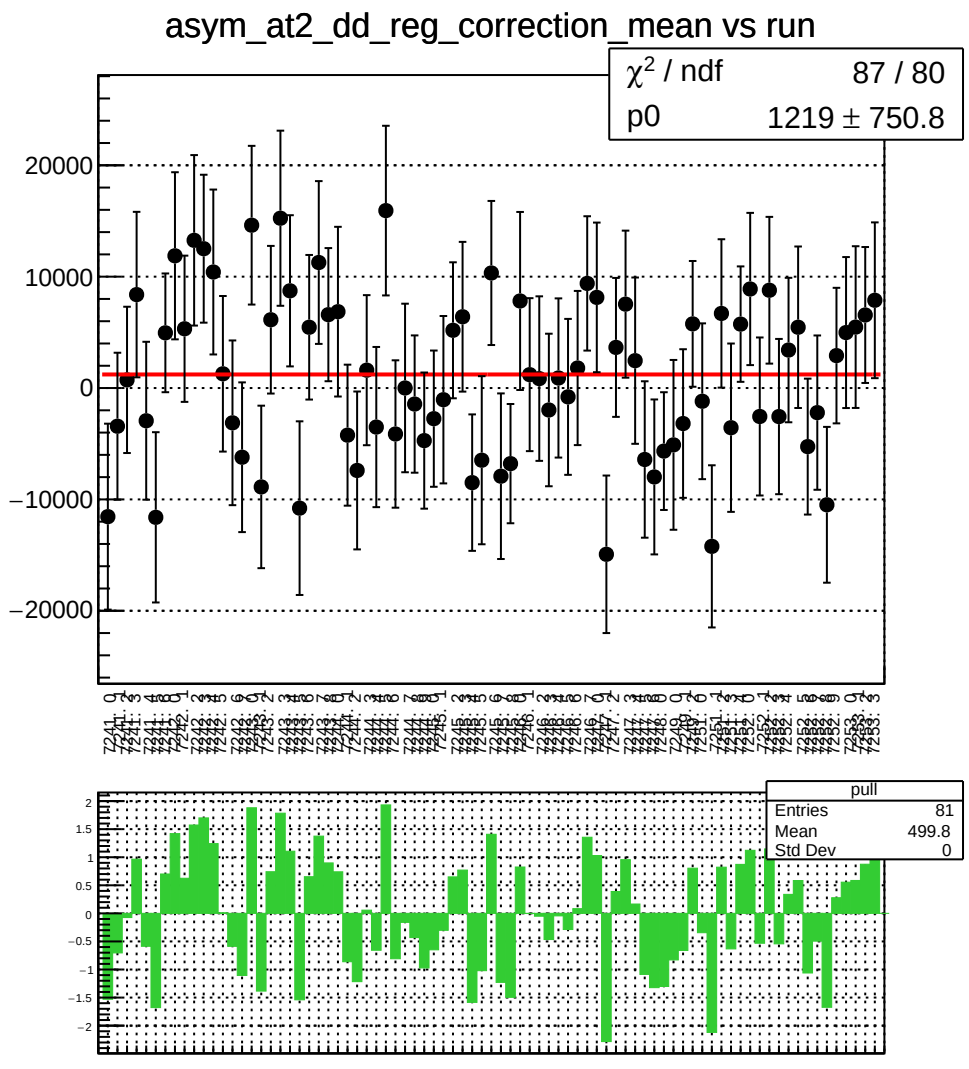

pull1D
Entries 81
Mean 0.0374
Std Dev 0.9434
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

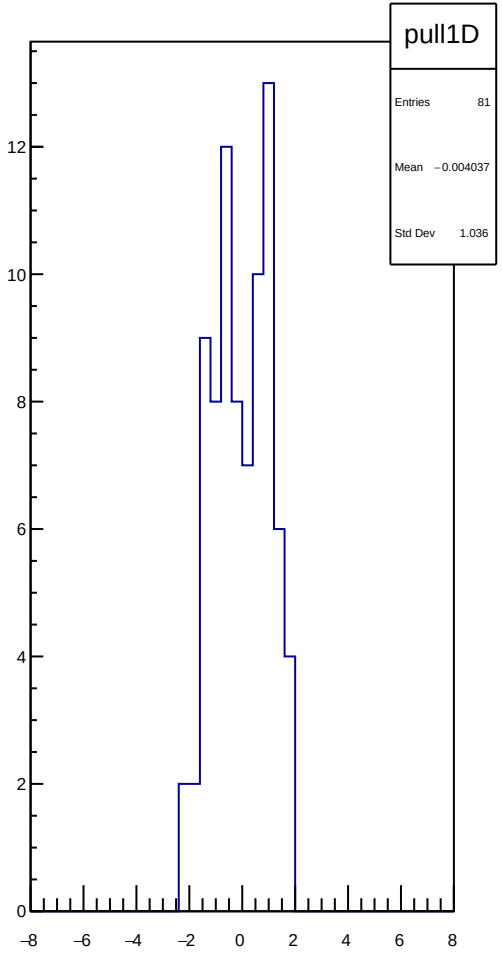

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.774e+05 / 80
p0 1.232e−10 ± 1.138e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1

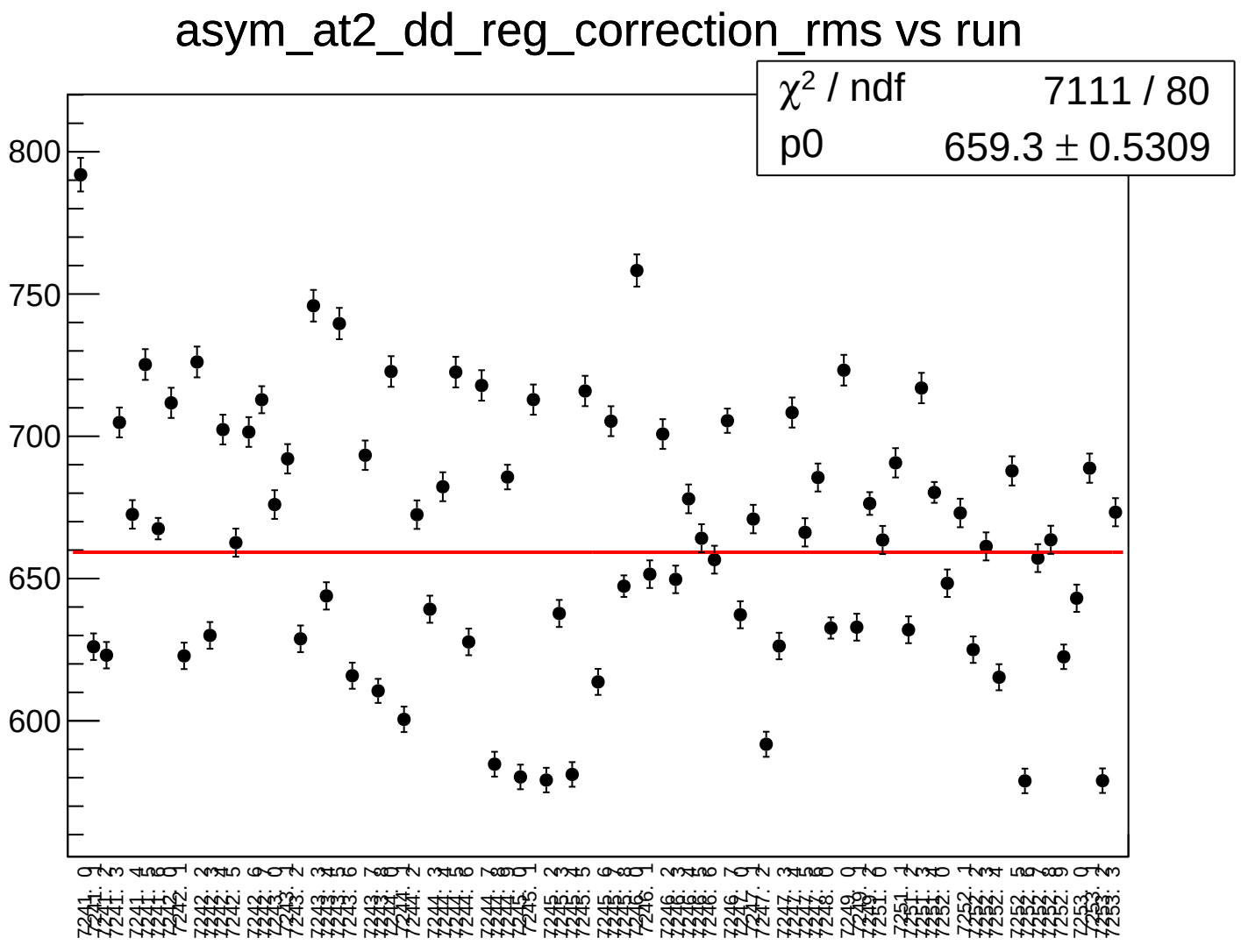

reg_asym_at2_dd_mean vs run
χ^2 / ndf 67.91 / 80
p0 120.9 ± 1793
pull
Entries 81
Mean −1906
Std Dev 0

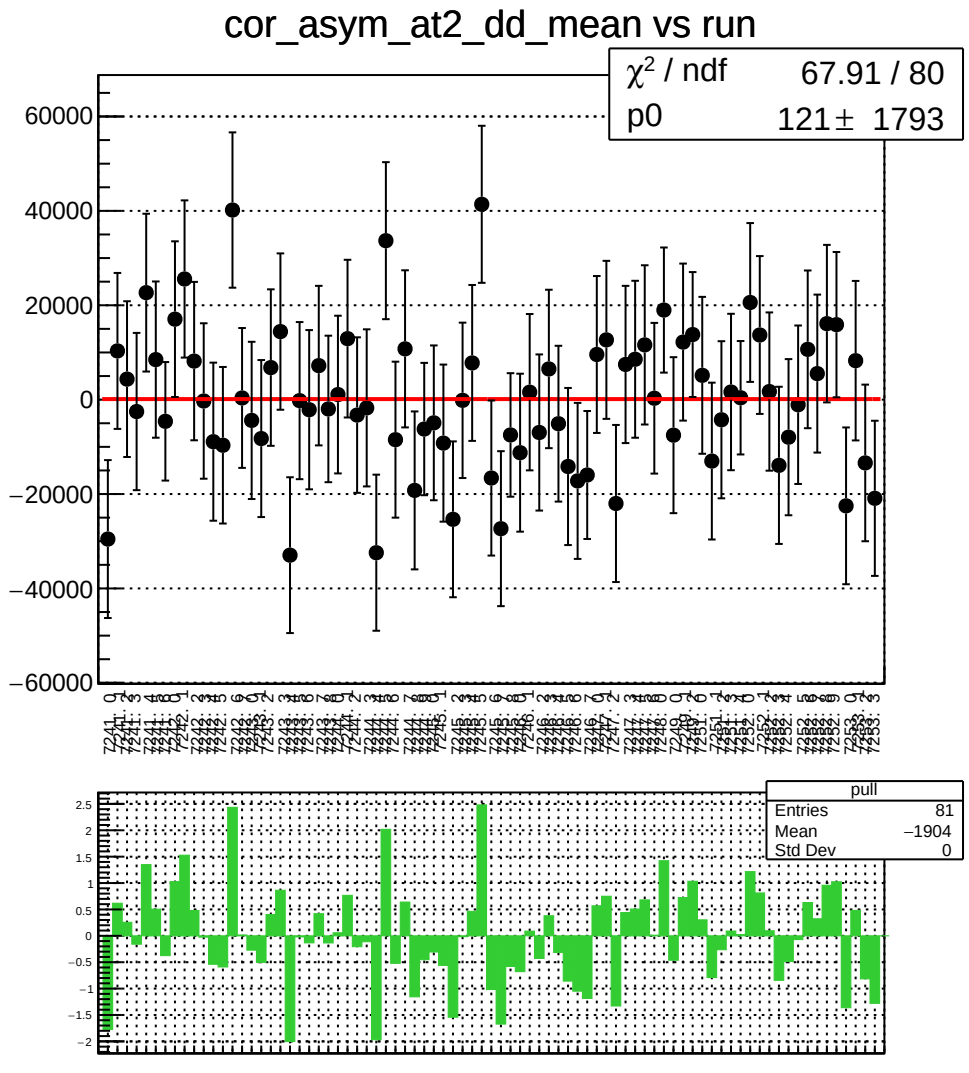

pull1D
Entries 81
Mean 0.0004408
Std Dev 0.9157

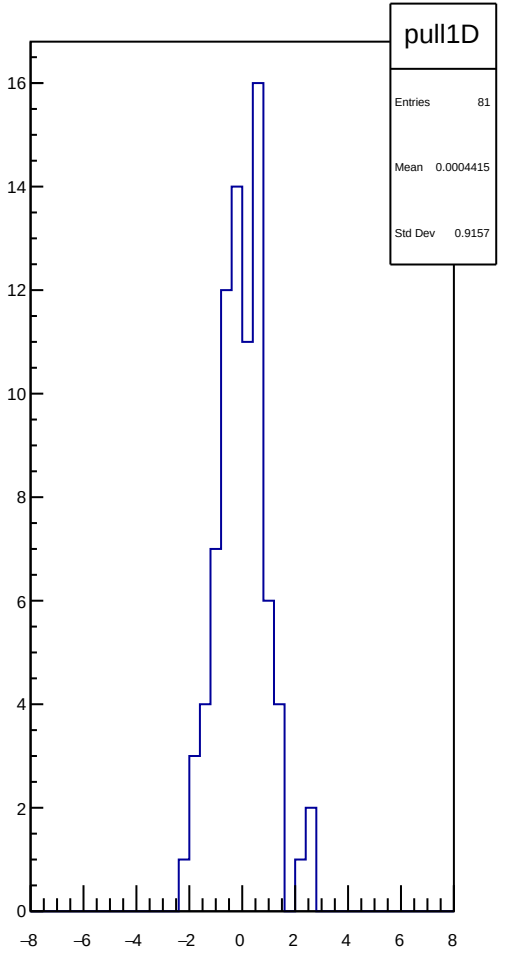

reg_asym_at2_dd_rms vs run
χ² / ndf 64.74 / 80
p0 1578 ± 1.268
1620
1610
1600
1590
1580
1570
1560
1550
1540

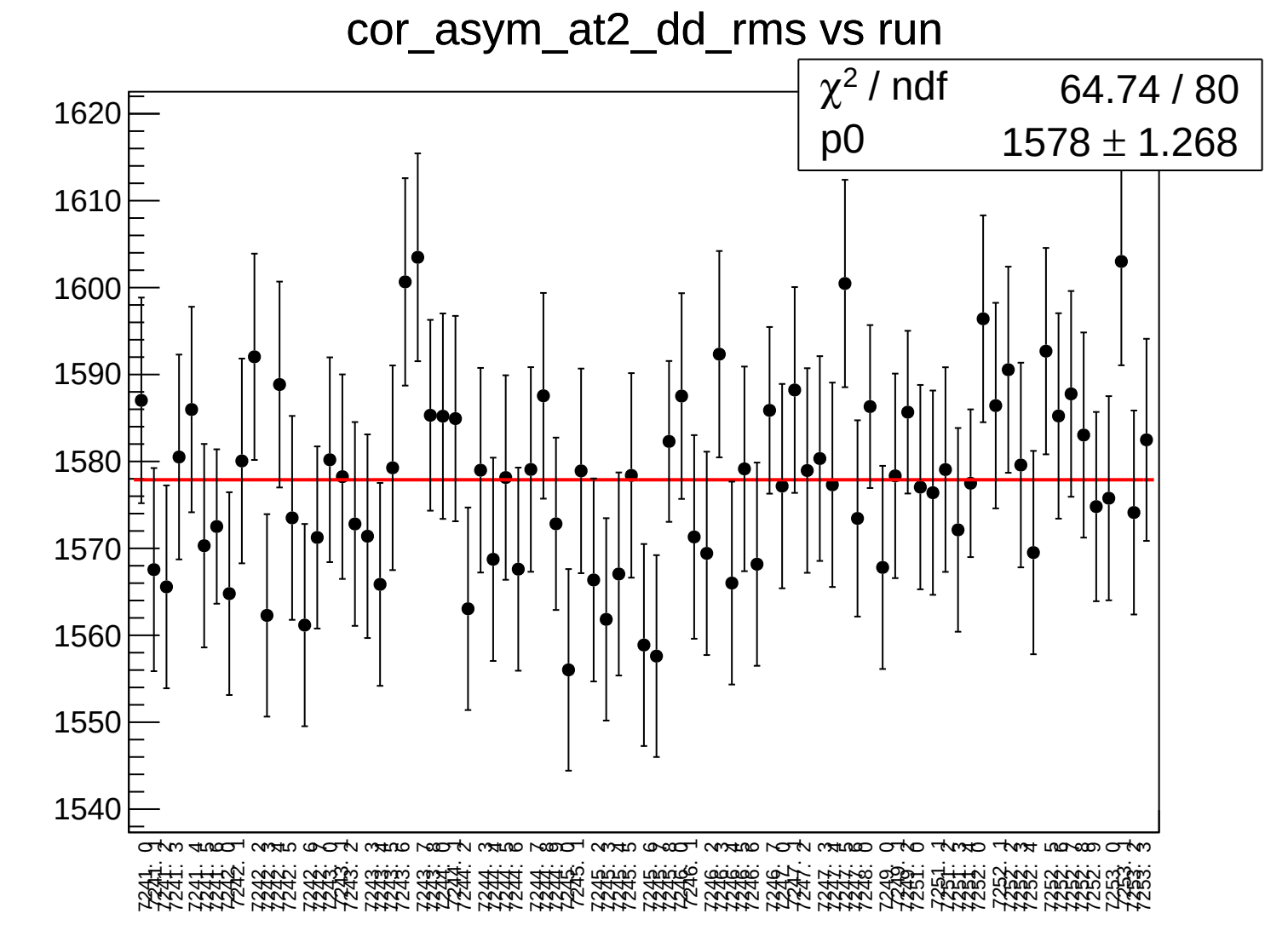

asym_at2_dd_reg_correction_mean vs run
χ² / ndf 87 / 80
p0 1219 ± 750.8
20000
10000
0
−10000
−20000
pull
Entries 81
Mean 499.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

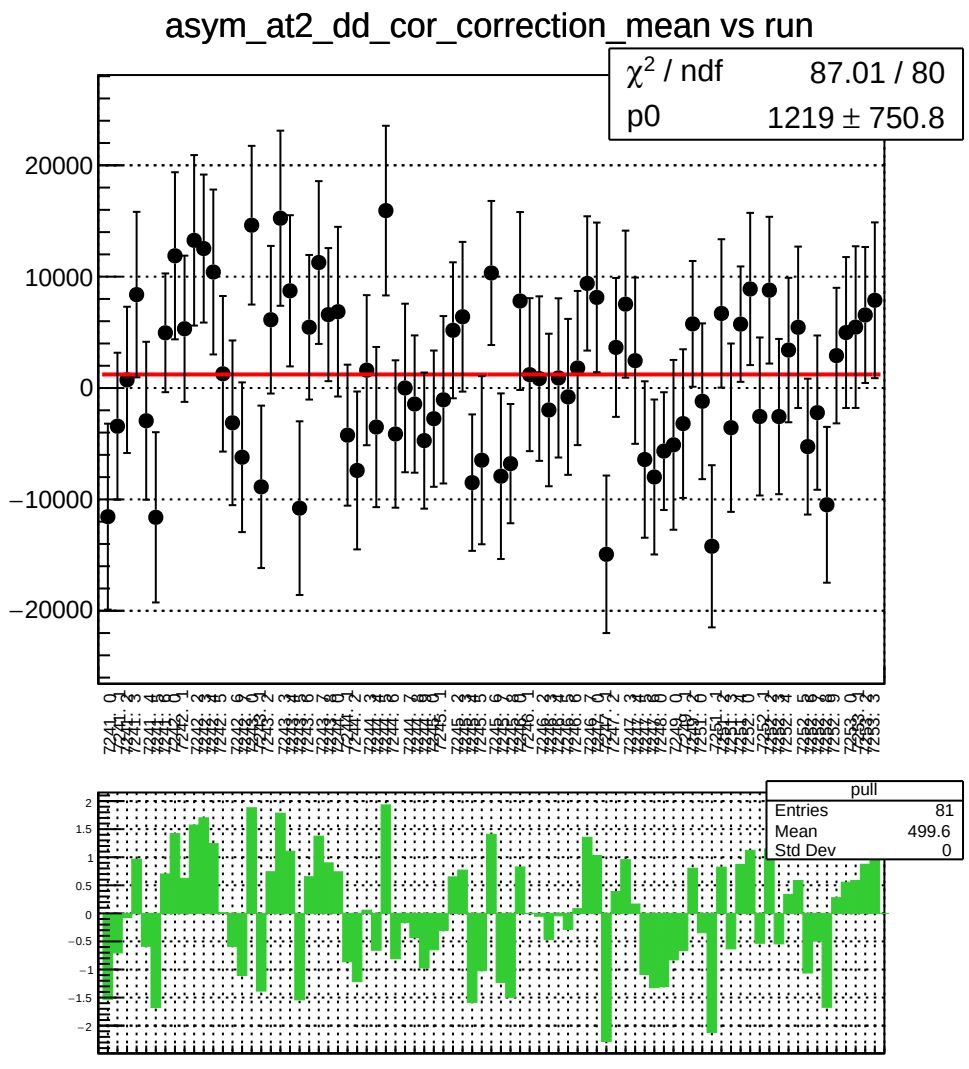

pull1D
Entries 81
Mean −0.004037
Std Dev 1.036
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

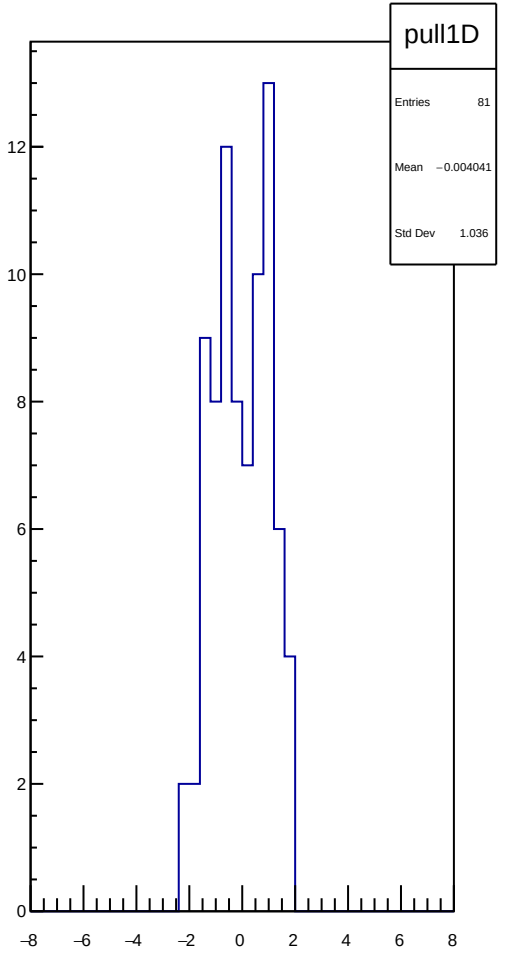

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 7111 / 80
p0 659.3 ± 0.5309
800
750
700
650
600

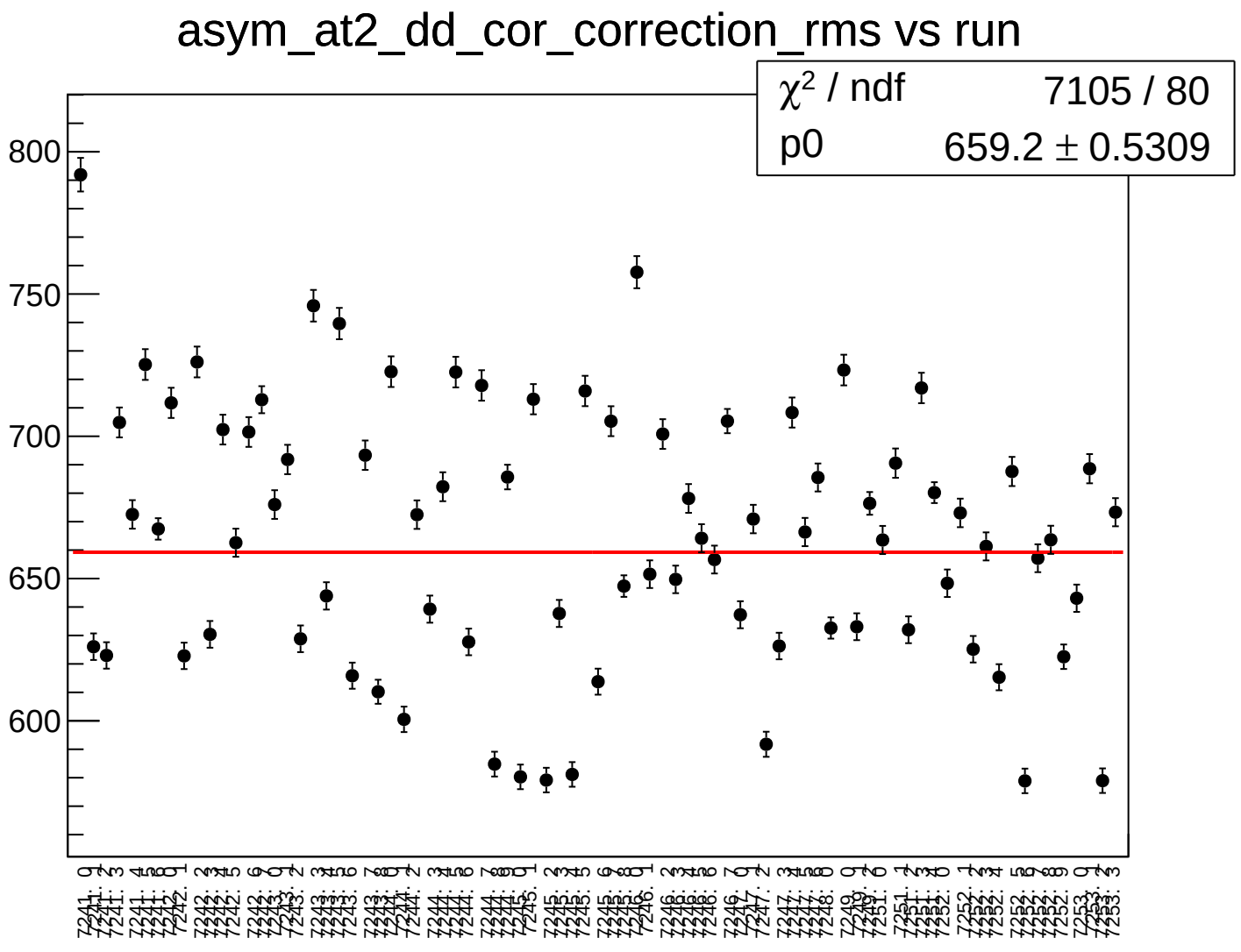

cor_asym_at2_dd_mean vs run
χ² / ndf 67.91 / 80
p0 121 ± 1793
pull
Entries 81
Mean −1904
Std Dev 0

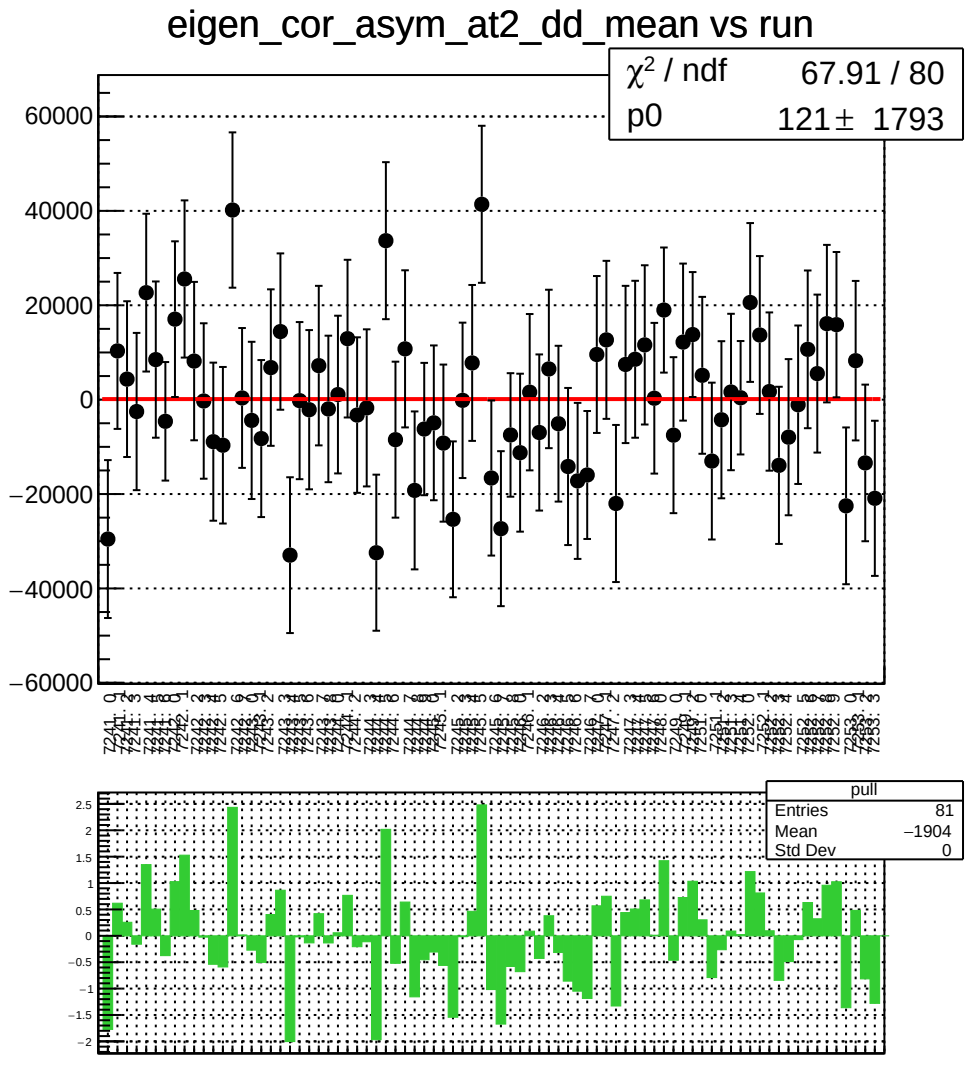

pull1D
Entries 81
Mean 0.0004415
Std Dev 0.9157

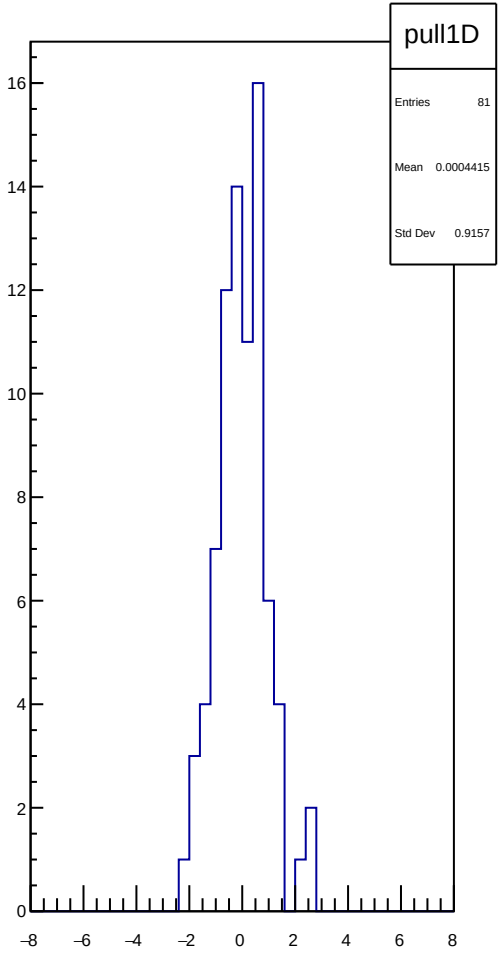

cor_asym_at2_dd_rms vs run
χ^2 / ndf 64.74 / 80
p0 1578 ± 1.268
1620
1610
1600
1590
1580
1570
1560
1550
1540

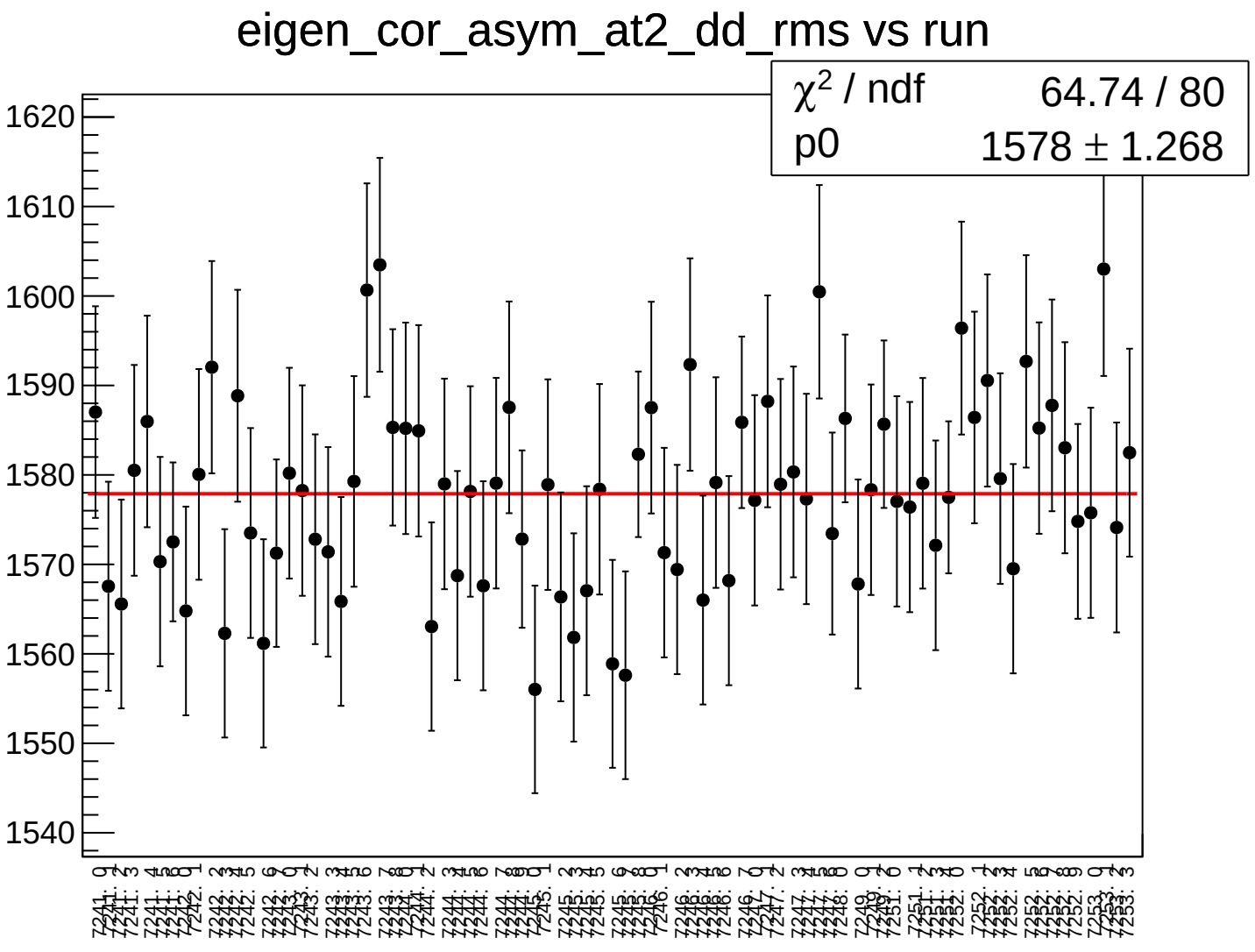

asym_at2_dd_cor_correction_mean vs run
χ² / ndf 87.01 / 80
p0 1219 ± 750.8
20000
10000
0
−10000
−20000
pull
Entries 81
Mean 499.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

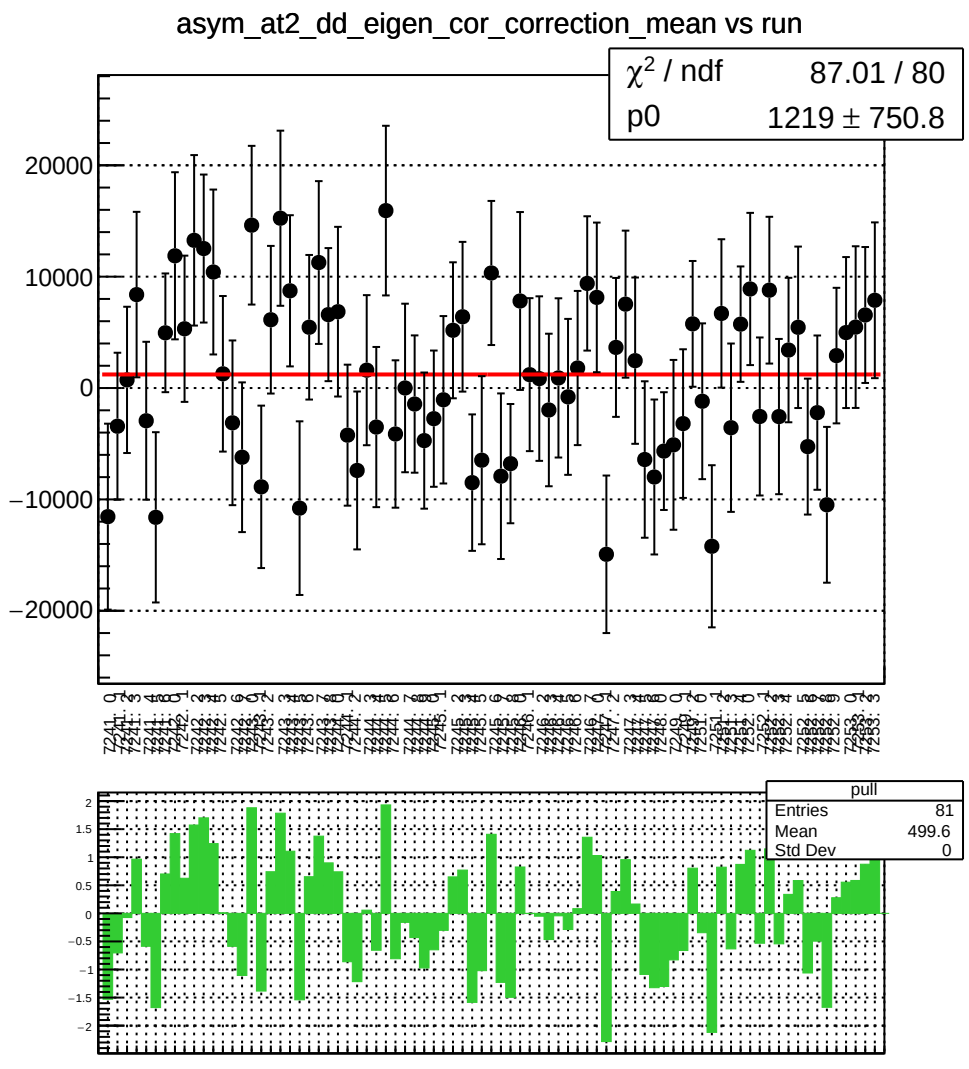

pull1D
Entries 81
Mean −0.004041
Std Dev 1.036
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

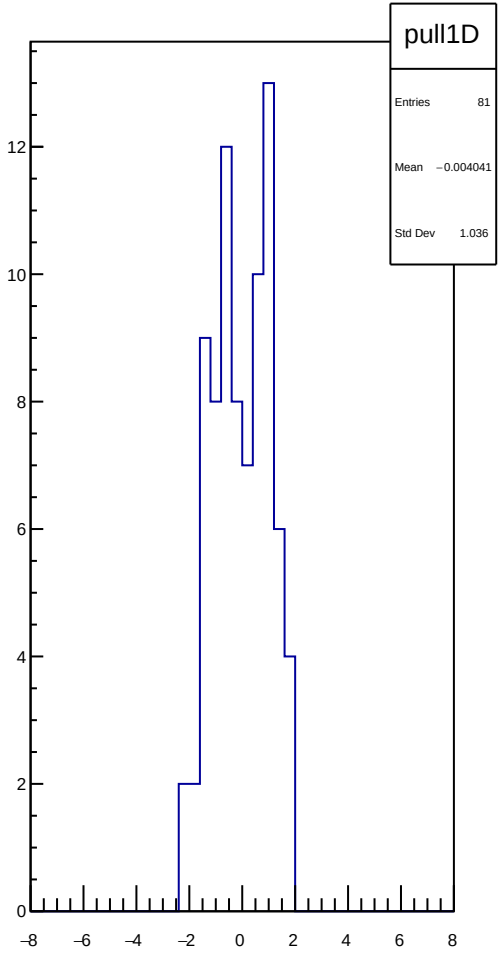

asym_at2_dd_cor_correction_rms vs run
χ² / ndf 7105 / 80
p0 659.2 ± 0.5309
800
750
700
650
600

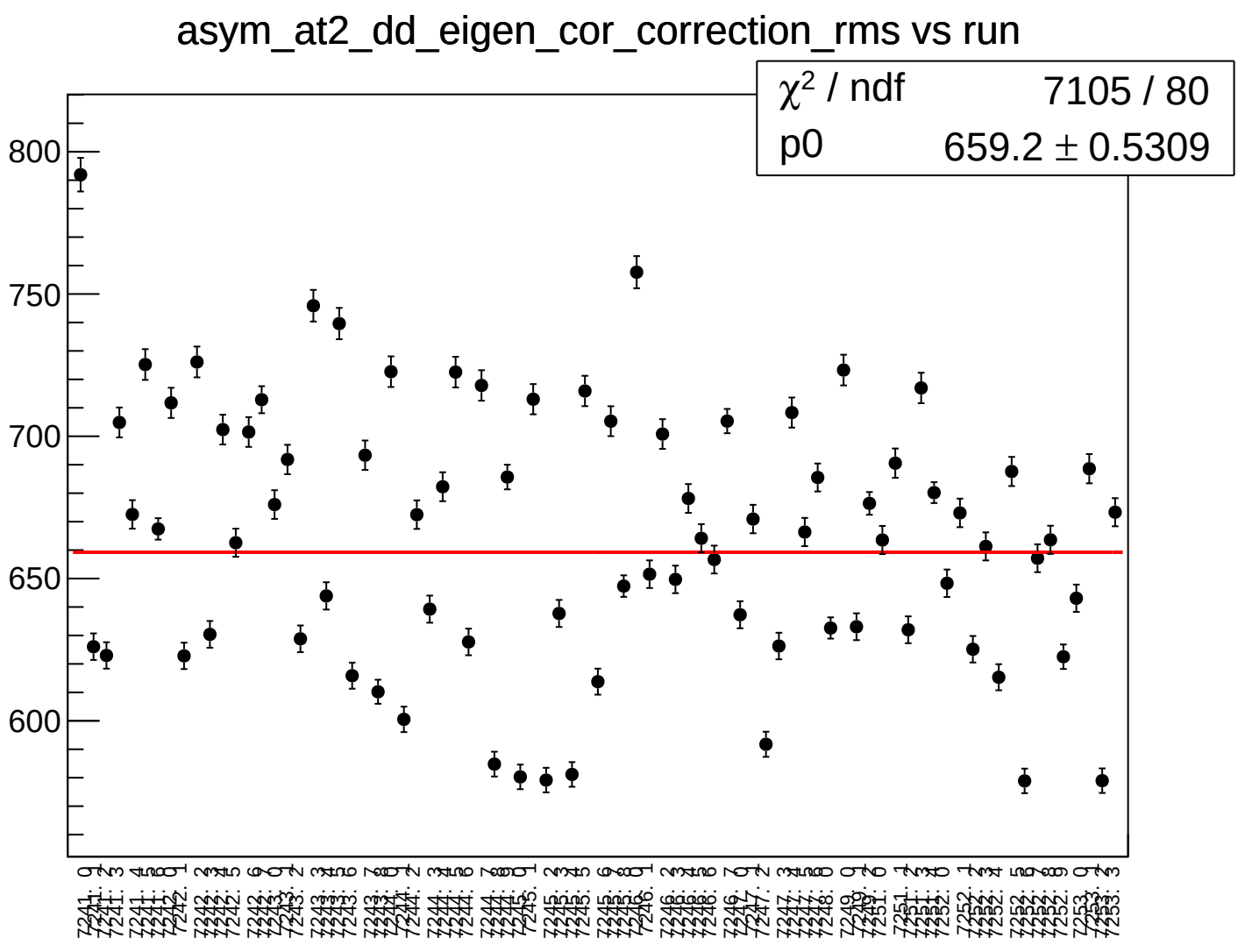

eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 67.91 / 80
p0 121 ± 1793
pull
Entries 81
Mean −1904
Std Dev 0

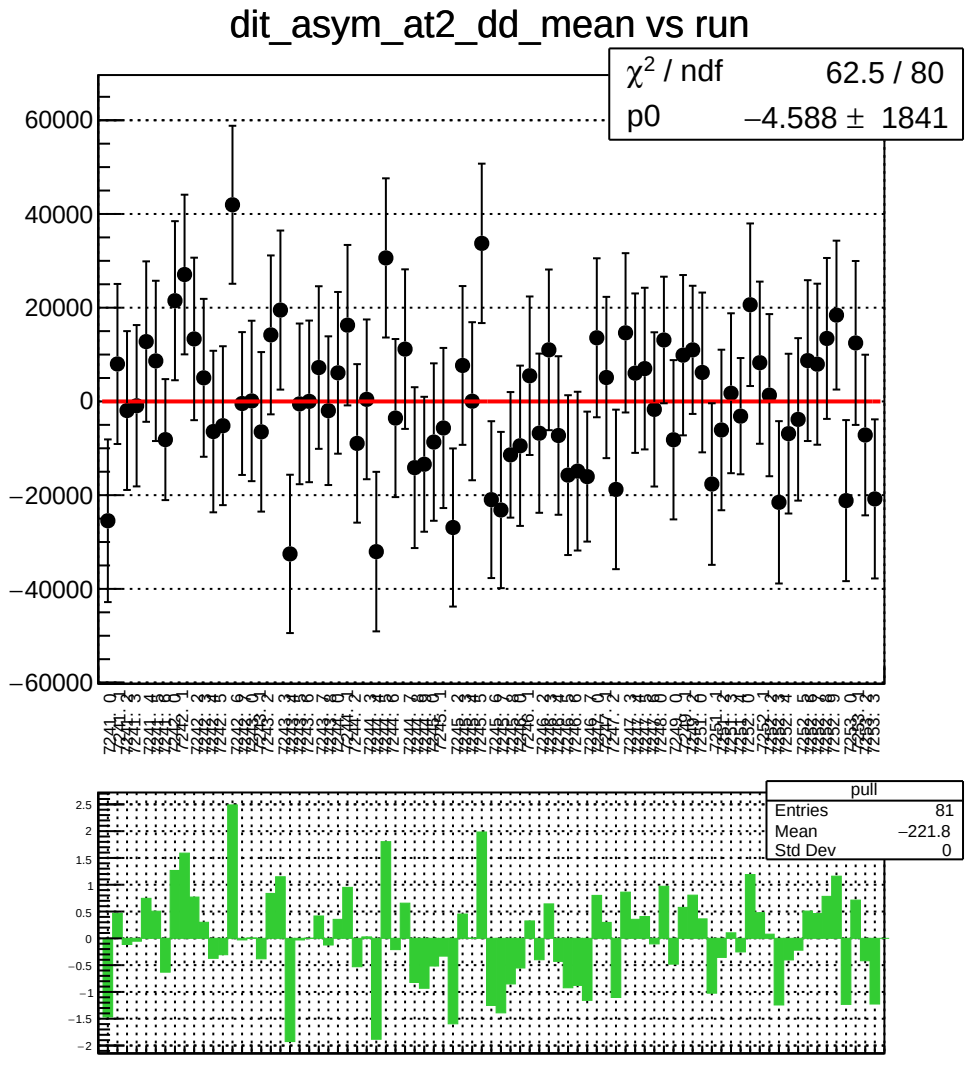

pull1D
Entries 81
Mean 0.0004415
Std Dev 0.9157

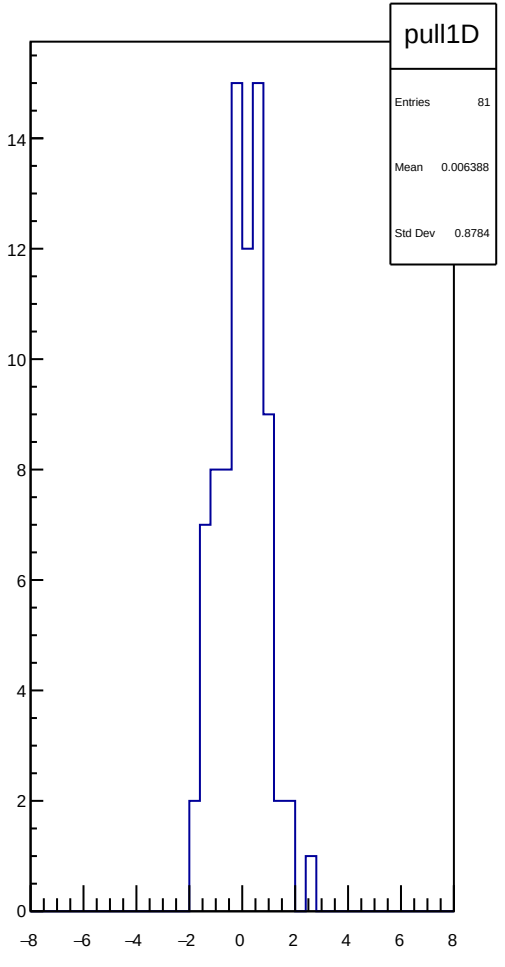

eigen_cor_asym_at2_dd_rms vs run
χ² / ndf 64.74 / 80
p0 1578 ± 1.268
1620
1610
1600
1590
1580
1570
1560
1550
1540

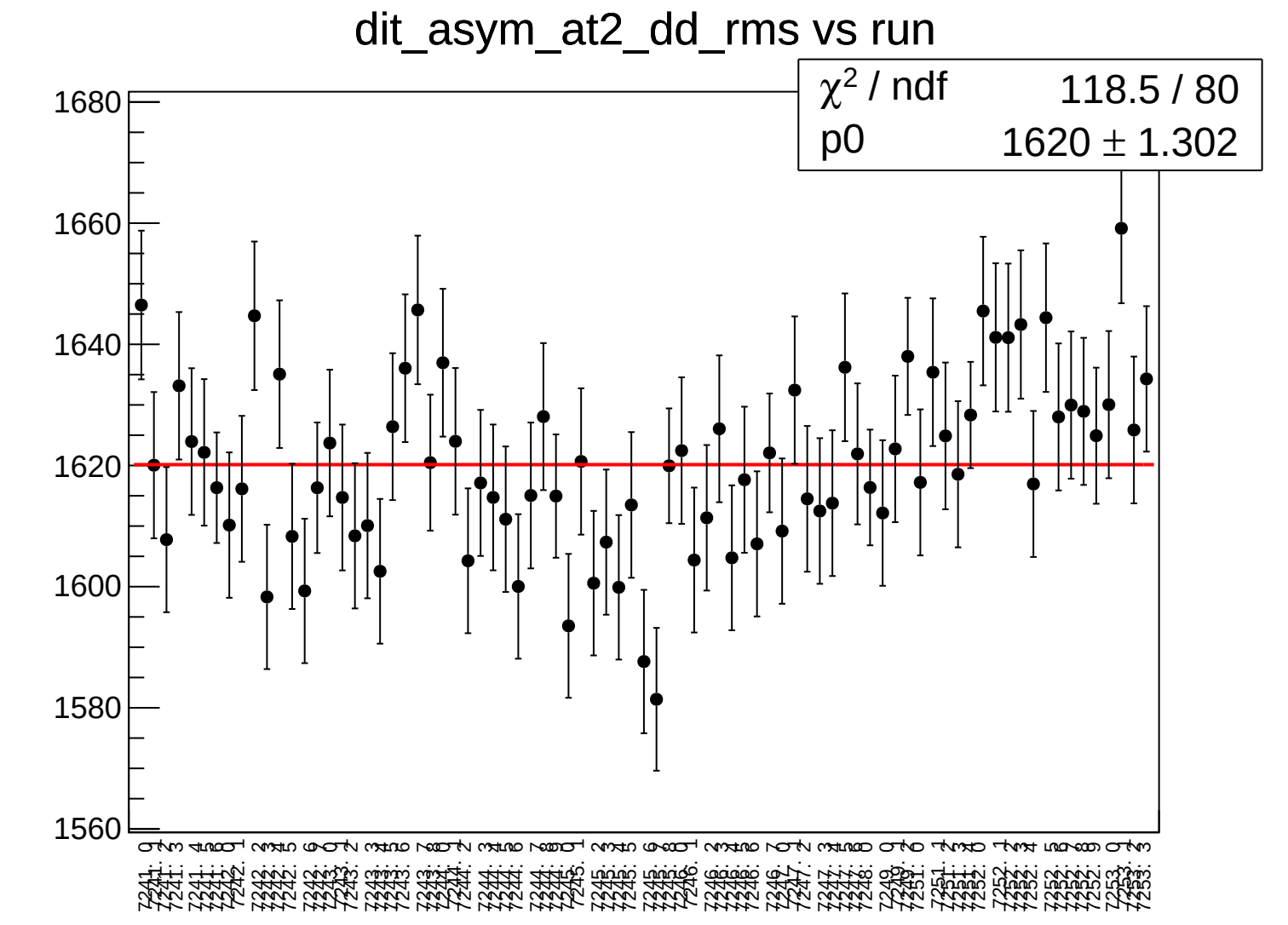

asym_at2_dd_eigen_cor_correction_mean vs run
χ² / ndf 87.01 / 80
p0 1219 ± 750.8
20000
10000
0
−10000
−20000
pull
Entries 81
Mean 499.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

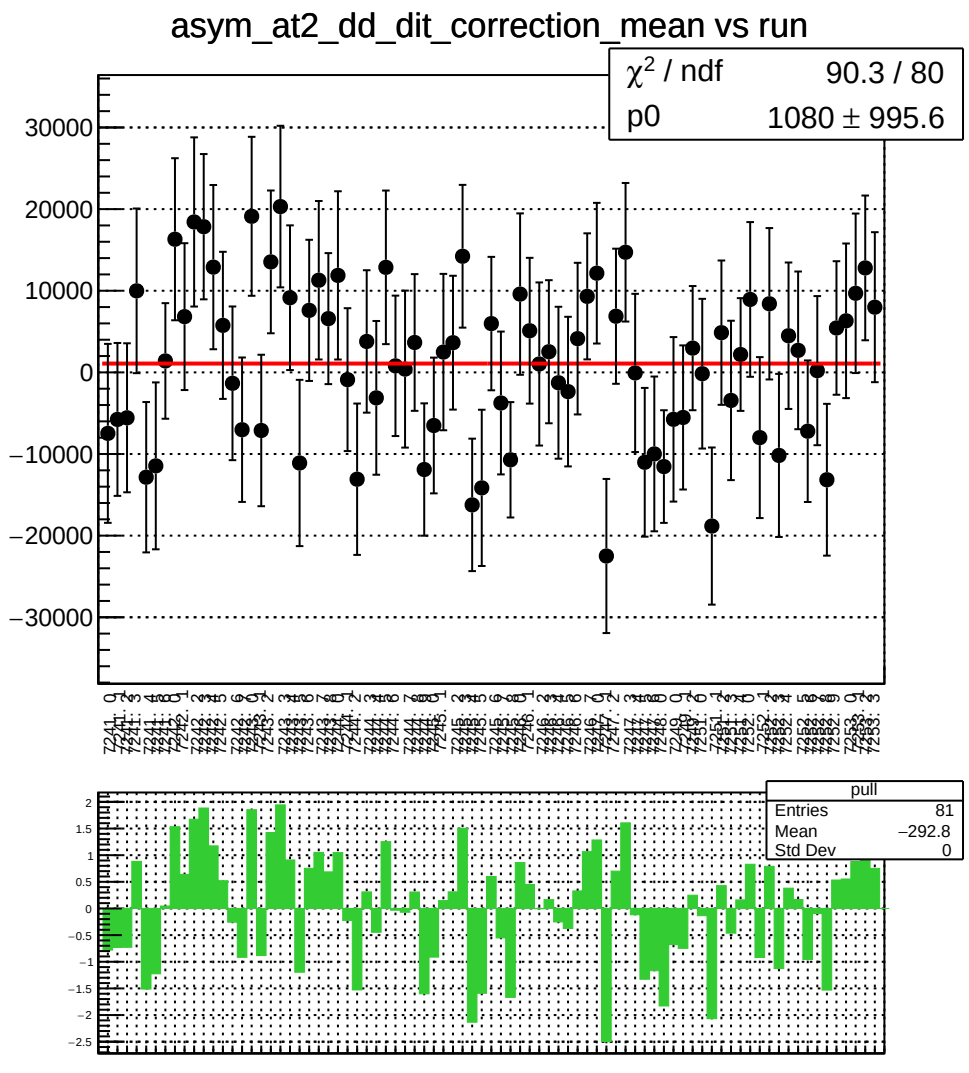

pull1D
Entries 81
Mean −0.004041
Std Dev 1.036
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

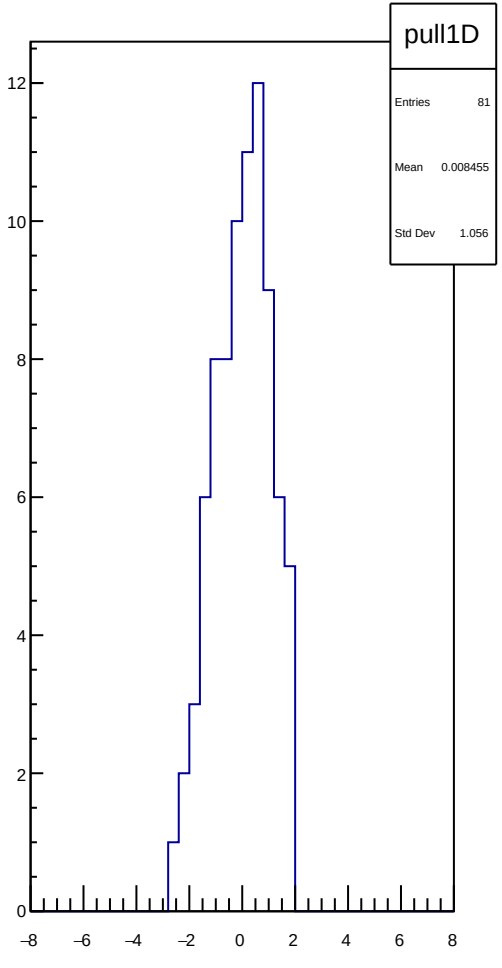

asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 7105 / 80
p0 659.2 ± 0.5309
800
750
700
650
600

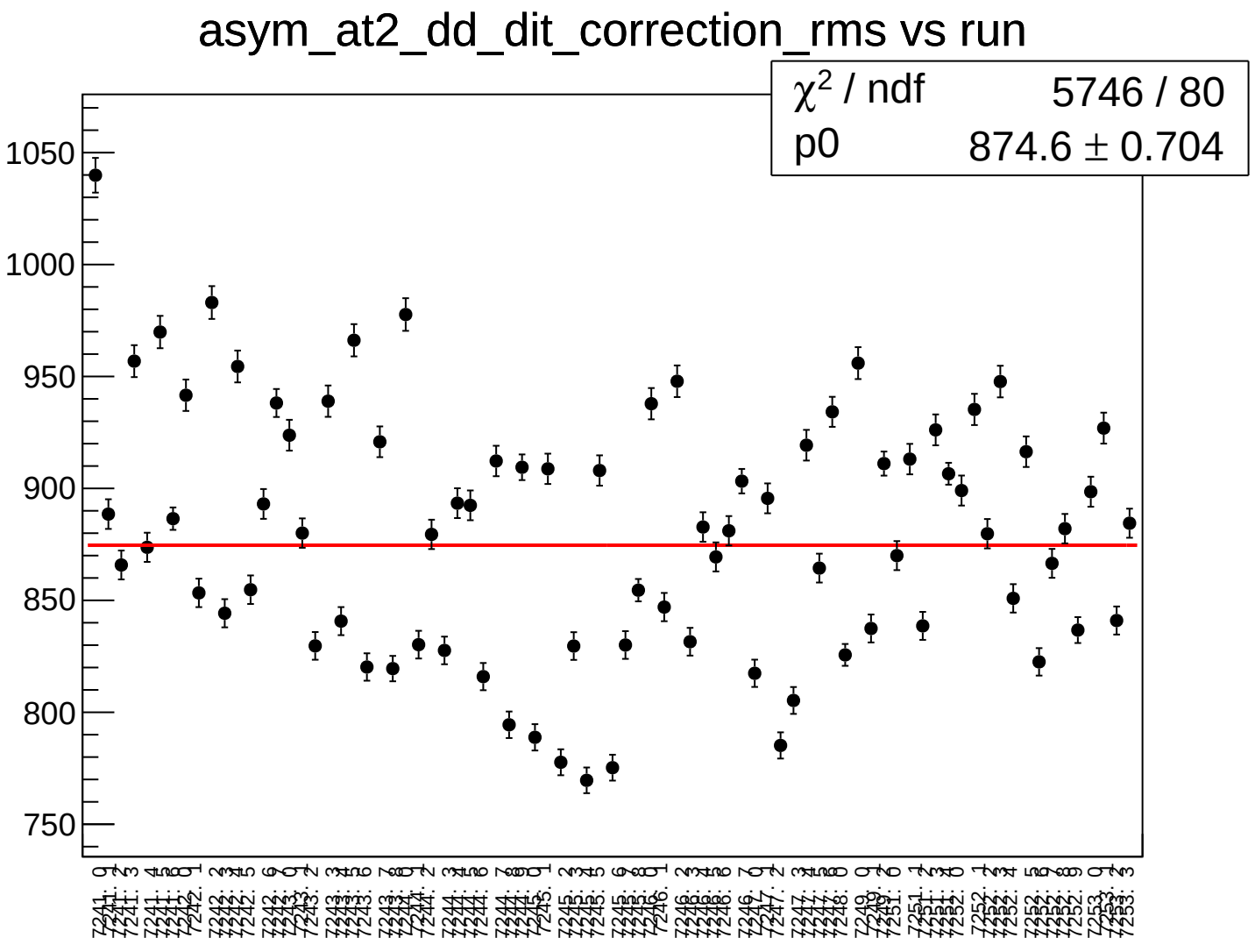

dit_asym_at2_dd_mean vs run
χ² / ndf 62.5 / 80
p0 −4.588 ± 1841
pull
Entries 81
Mean −221.8
Std Dev 0

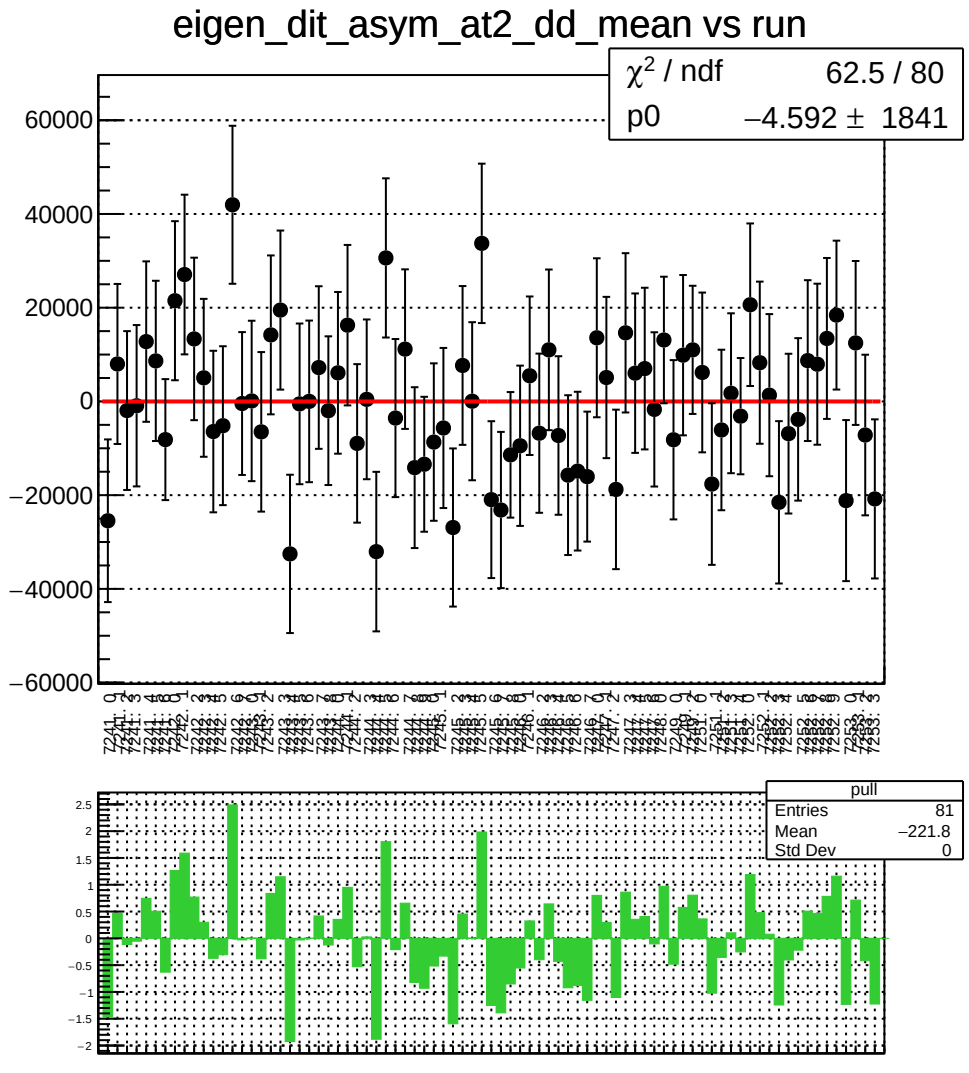

pull1D
Entries 81
Mean 0.006388
Std Dev 0.8784

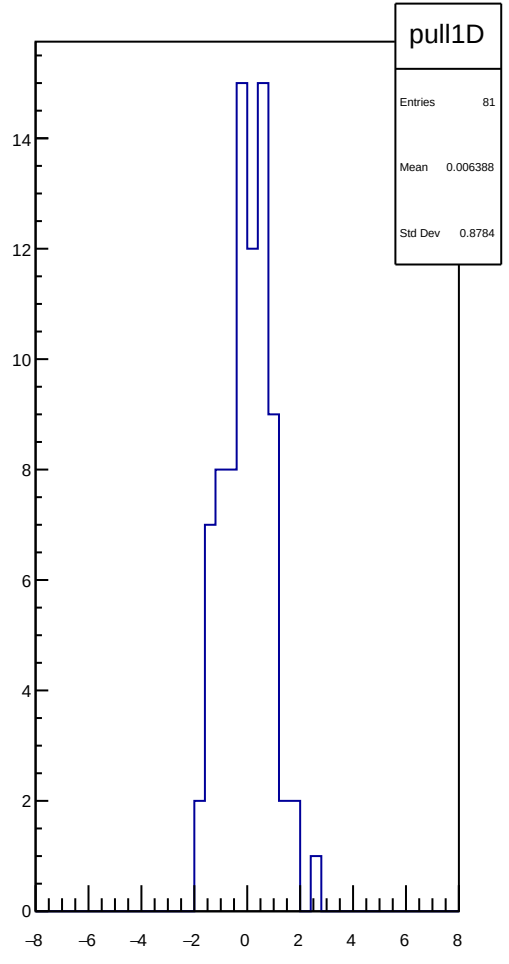

dit_asym_at2_dd_rms vs run
χ² / ndf 118.5 / 80
p0 1620 ± 1.302
1680
1660
1640
1620
1600
1580
1560

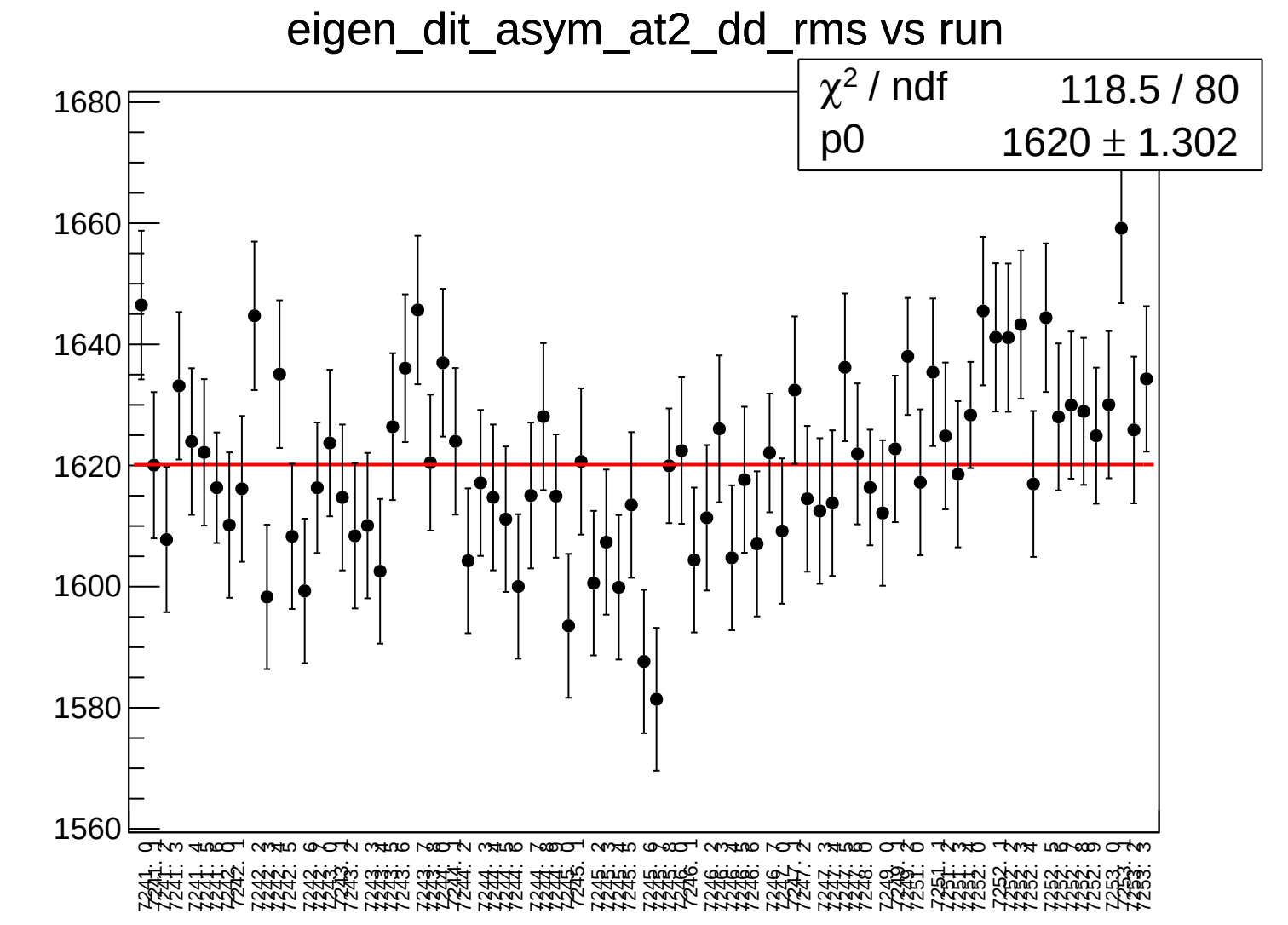

asym_at2_dd_dit_correction_mean vs run
χ² / ndf 90.3 / 80
p0 1080 ± 995.6
pull
Entries 81
Mean −292.8
Std Dev 0

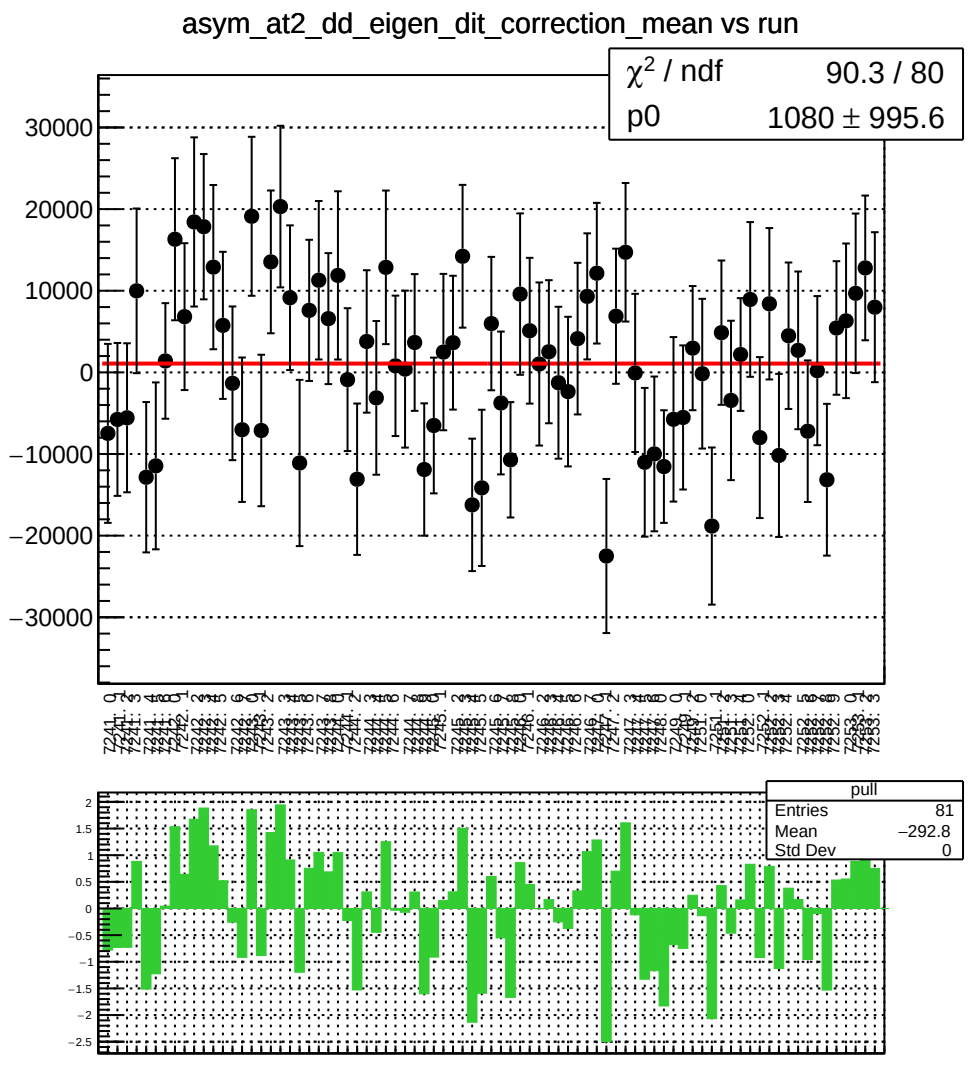

pull1D
Entries 81
Mean 0.008455
Std Dev 1.056

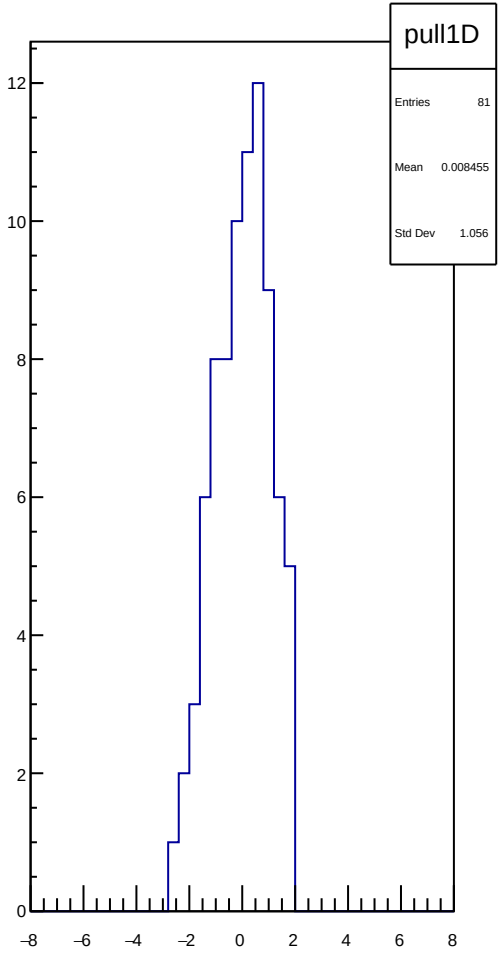

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 5746 / 80
p0 874.6 ± 0.704
1050
1000
950
900
850
800
750

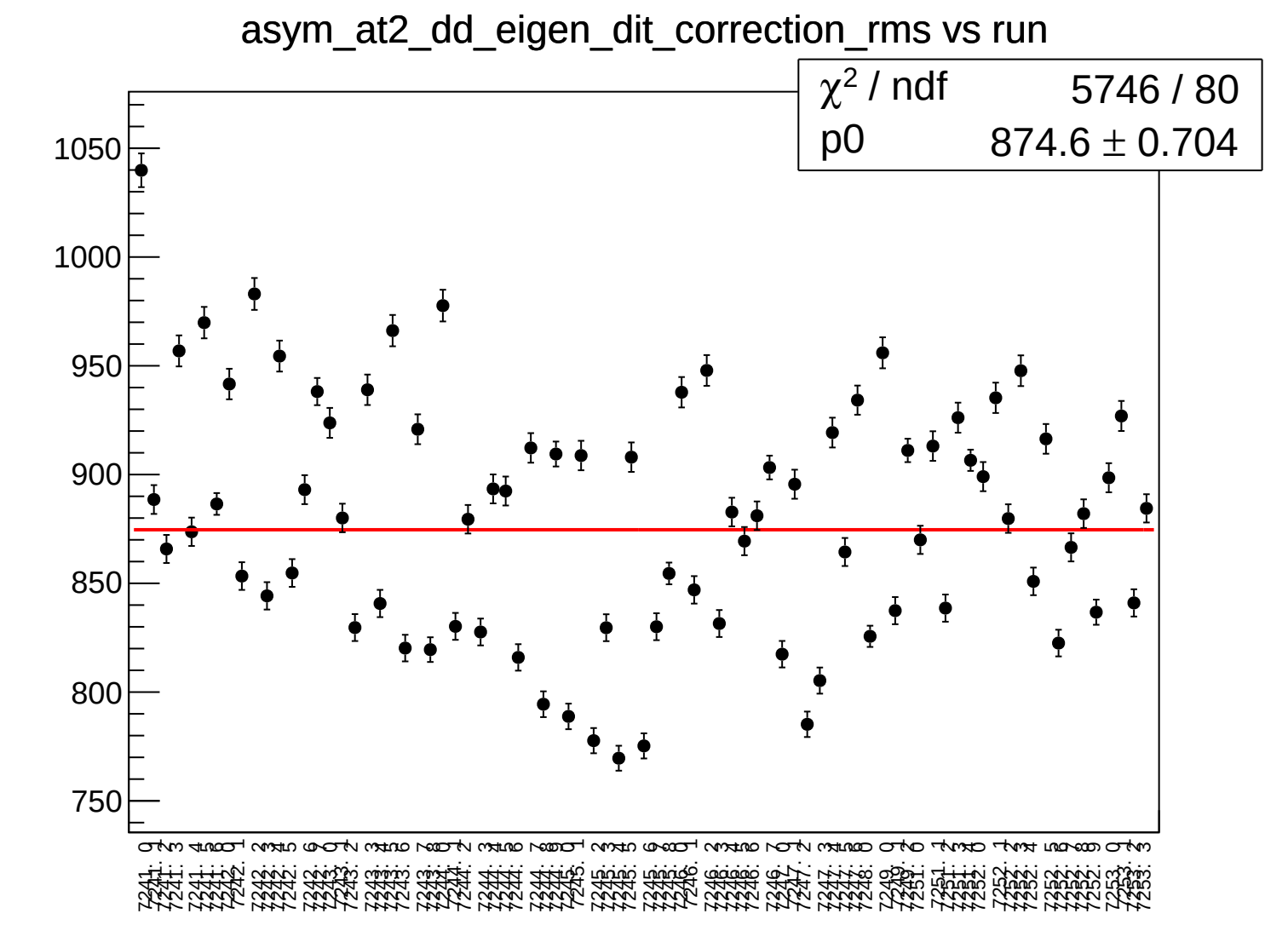

eigen_dit_asym_at2_dd_mean vs run
χ² / ndf 62.5 / 80
p0 −4.592 ± 1841
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −221.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

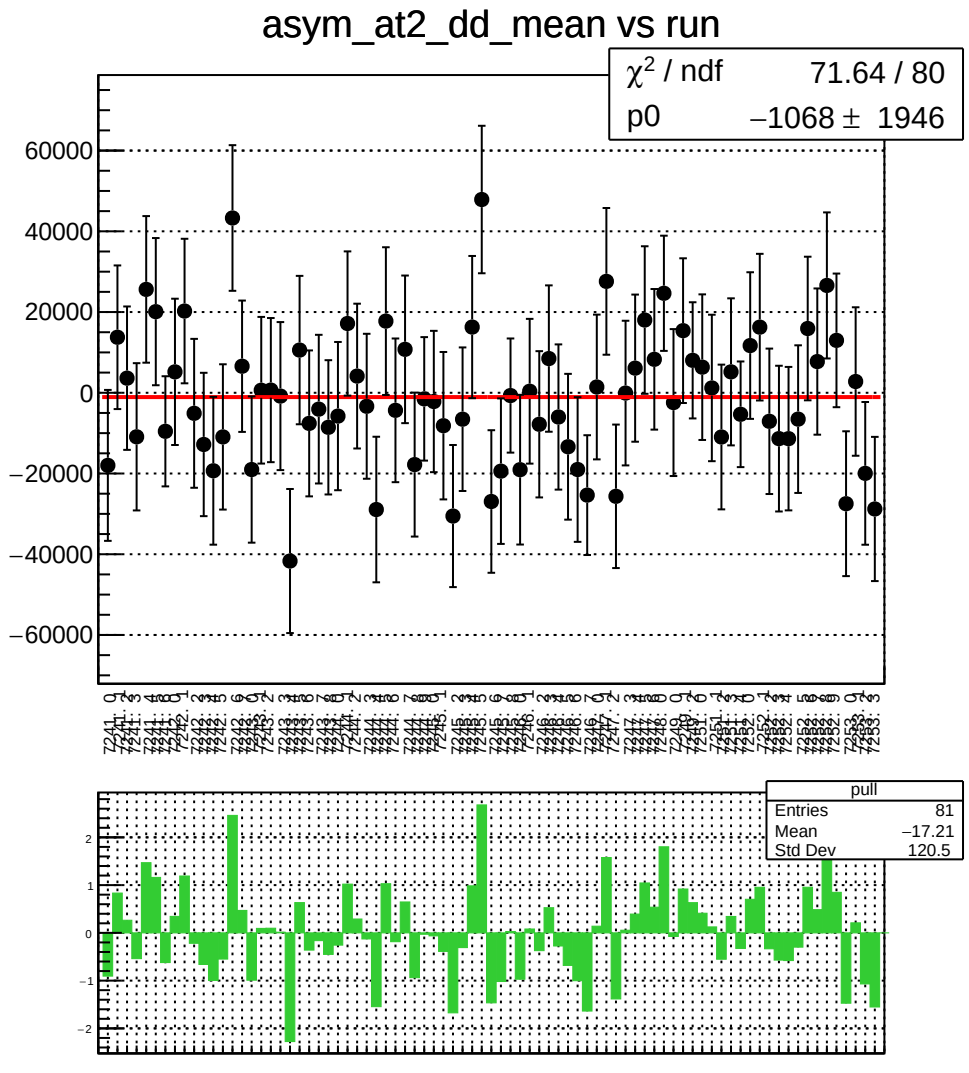

pull1D
Entries 81
Mean 0.006388
Std Dev 0.8784
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

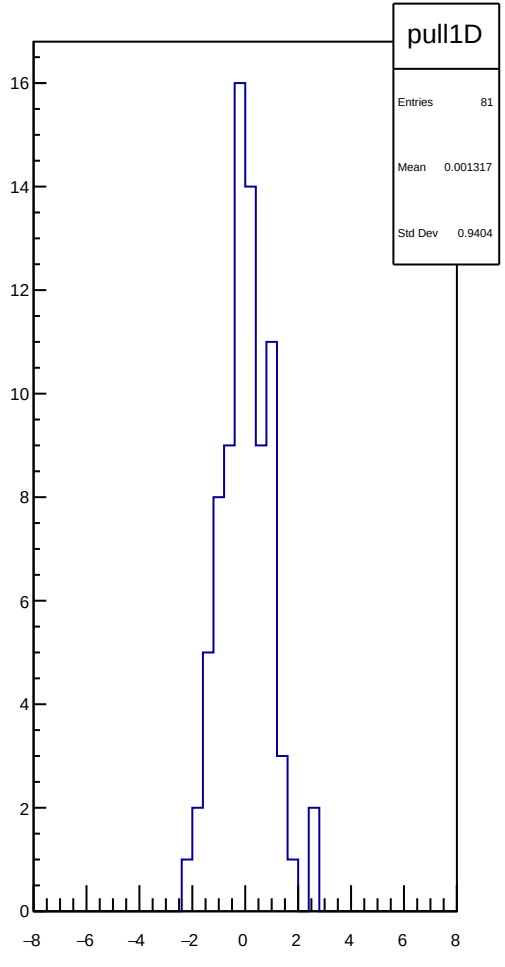

eigen_dit_asym_at2_dd_rms vs run
χ² / ndf 118.5 / 80
p0 1620 ± 1.302
1680
1660
1640
1620
1600
1580
1560

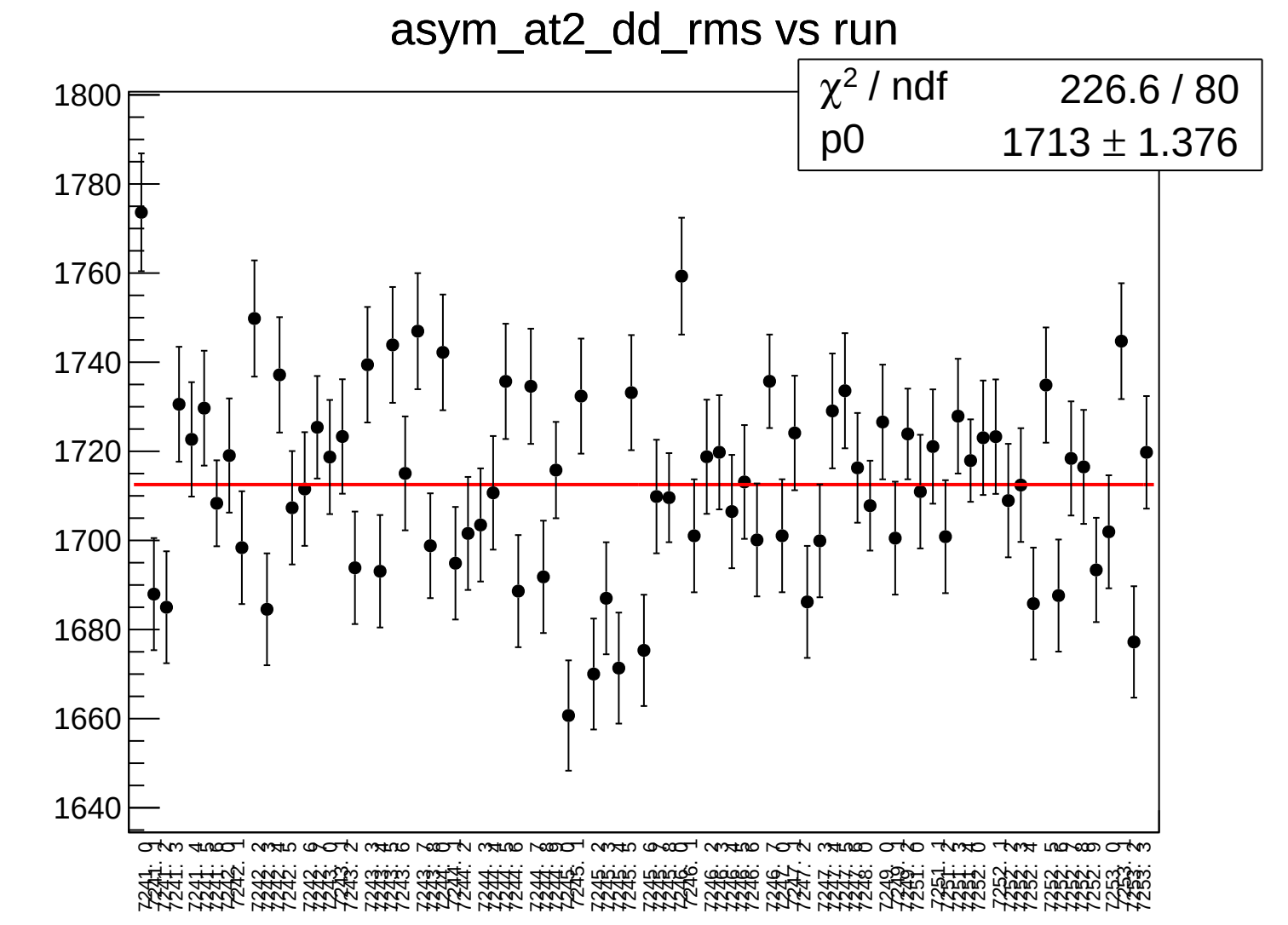

asym_at2_dd_eigen_dit_correction_mean vs run
χ² / ndf 90.3 / 80
p0 1080 ± 995.6
pull
Entries 81
Mean −292.8
Std Dev 0

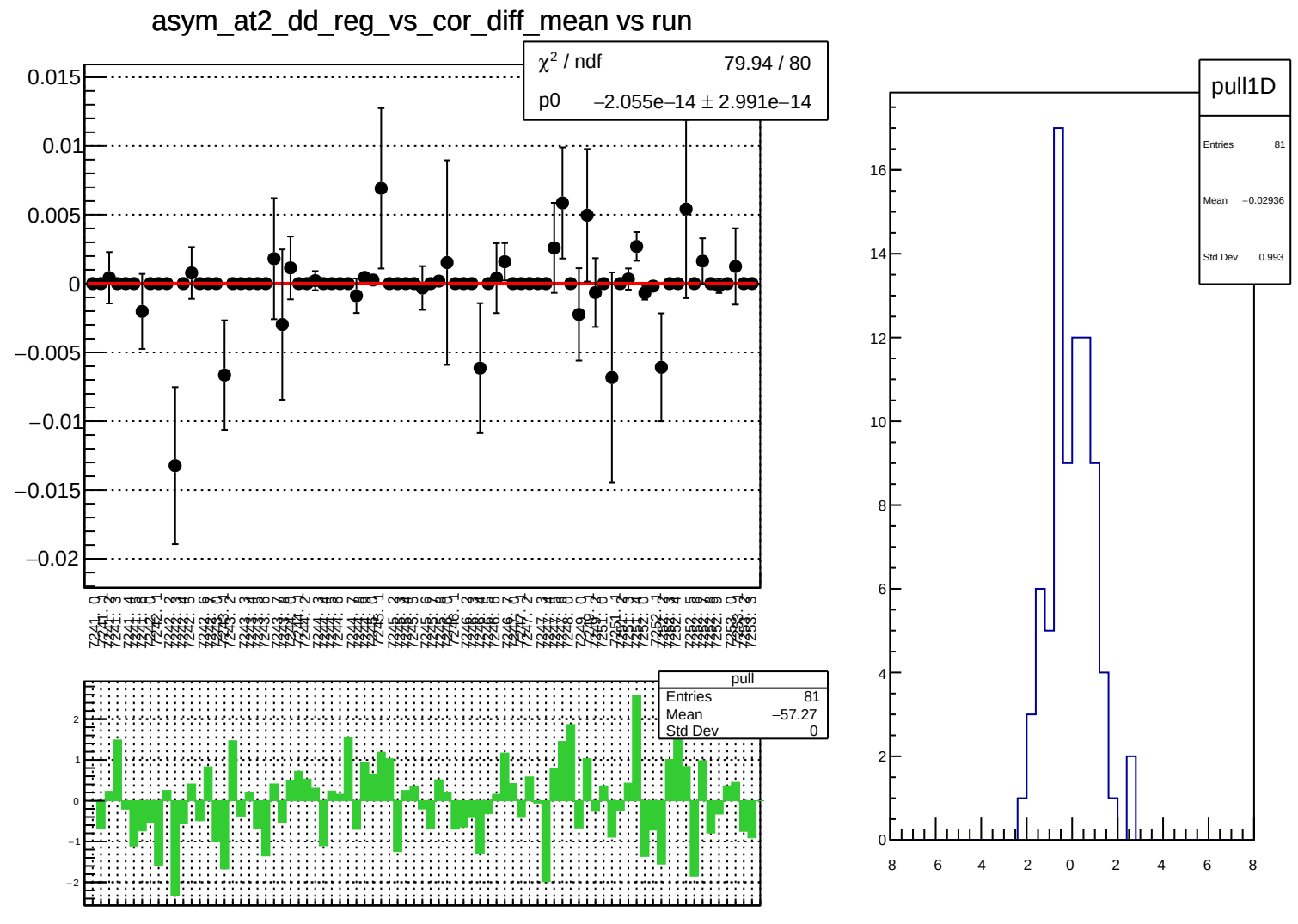

pull1D
Entries 81
Mean 0.008455
Std Dev 1.056

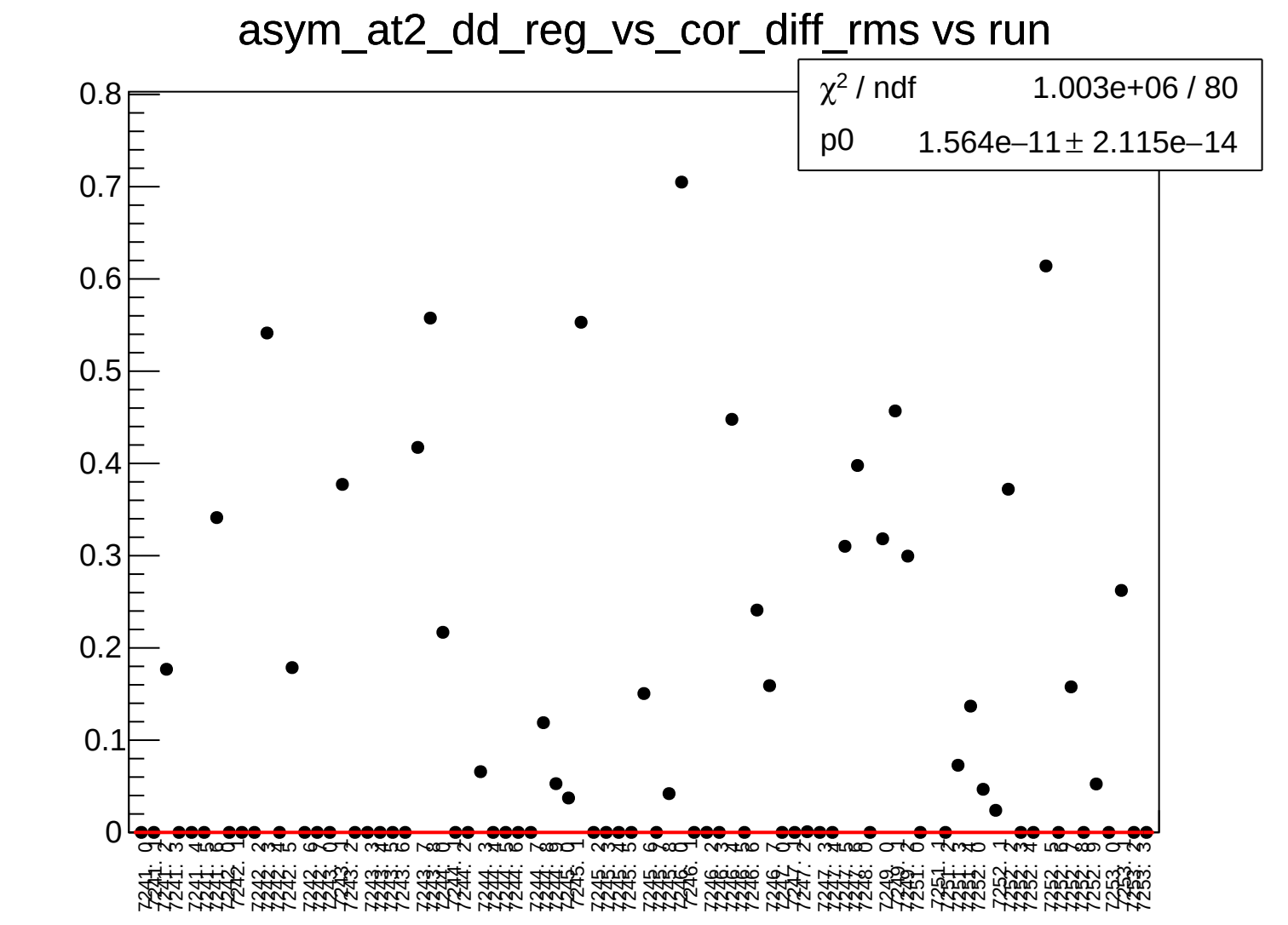

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 5746 / 80
p0 874.6 ± 0.704
1050
1000
950
900
850
800
750

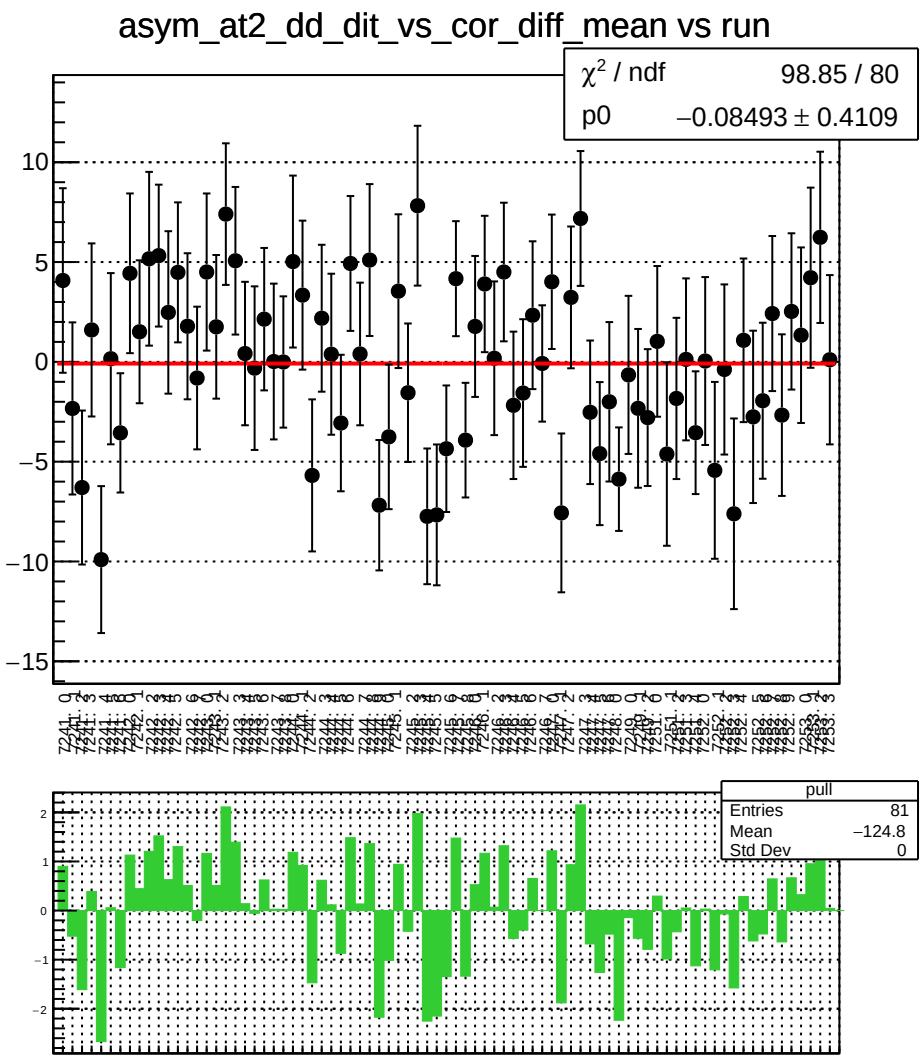

asym_at2_dd_mean vs run
χ² / ndf 71.64 / 80
p0 −1068 ± 1946
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −17.21
Std Dev 120.5
2
1
0
−1
−2

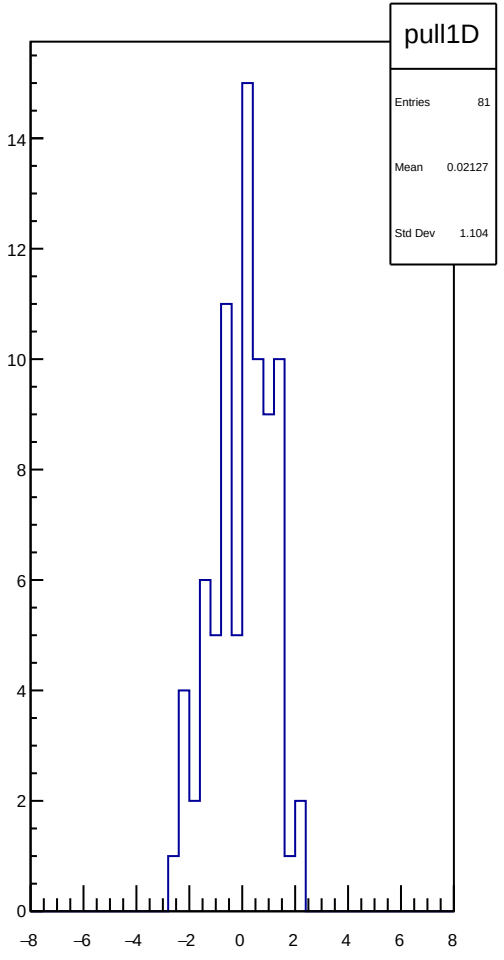

pull1D
Entries 81
Mean 0.001317
Std Dev 0.9404
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

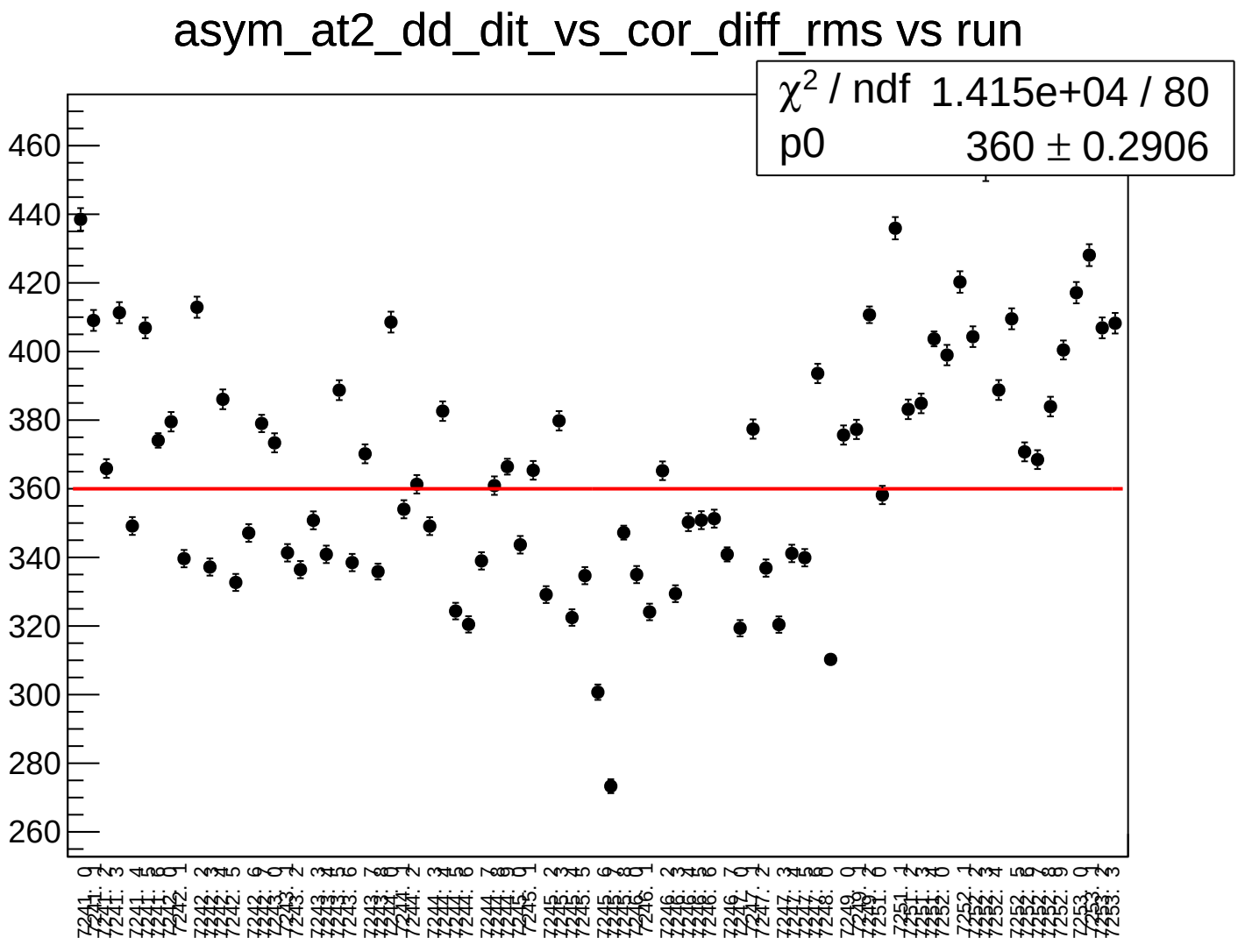

asym_at2_dd_rms vs run
χ² / ndf 226.6 / 80
p0 1713 ± 1.376
1800
1780
1760
1740
1720
1700
1680
1660
1640

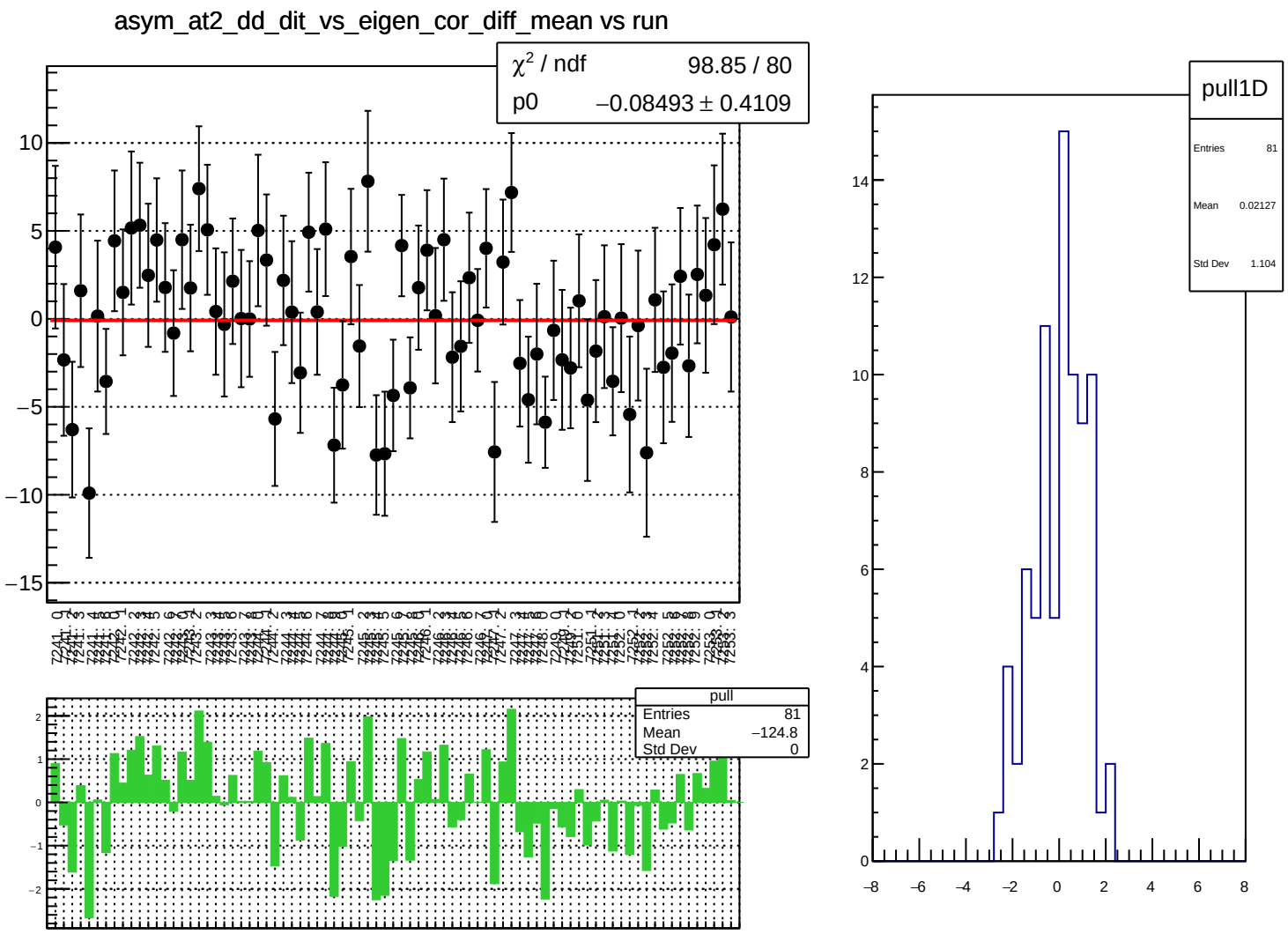

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 79.94 / 80
p0 −2.055e−14 ± 2.991e−14
pull
Entries 81
Mean −57.27
Std Dev 0
pull1D
Entries 81
Mean −0.02936
Std Dev 0.993

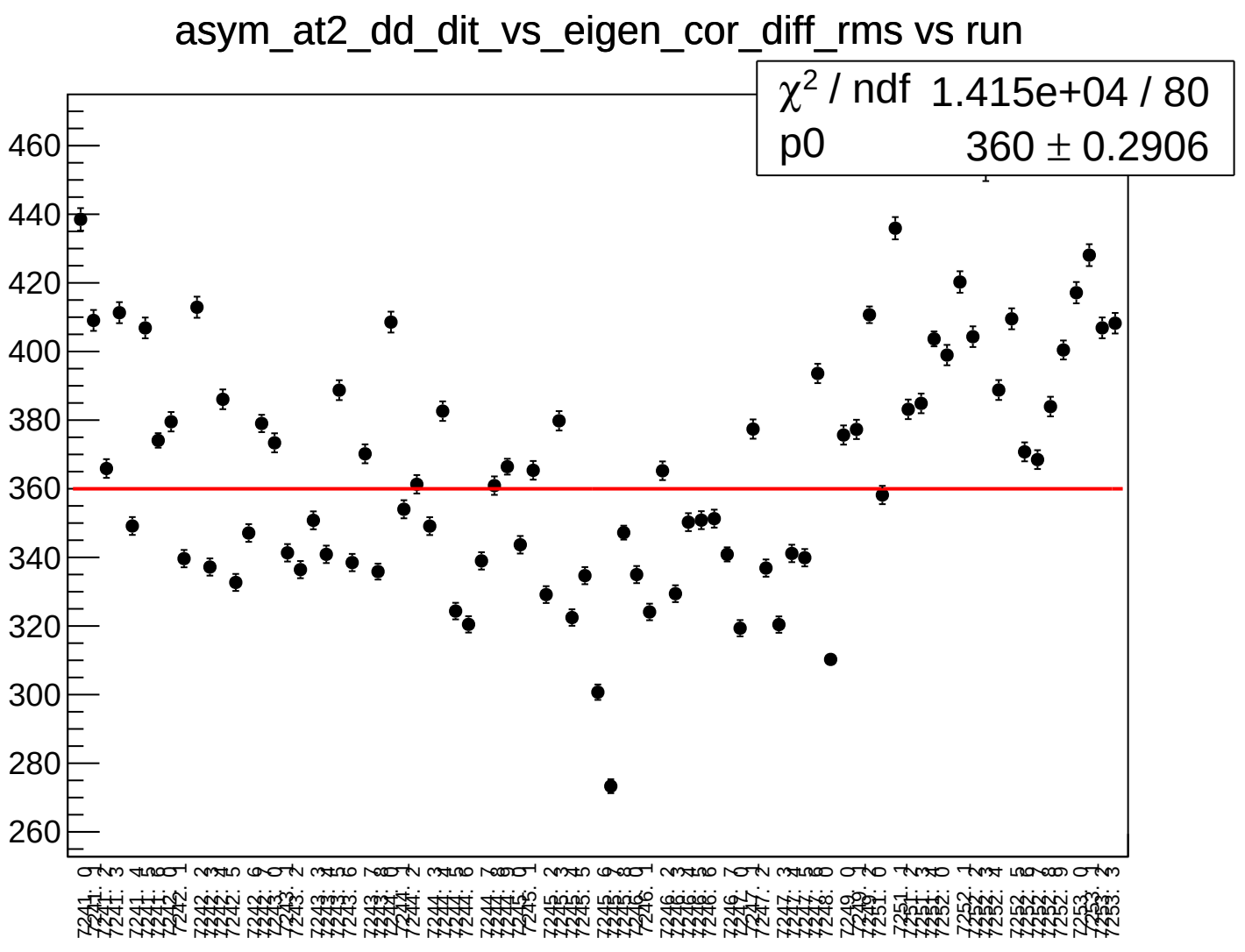

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.003e+06 / 80
p0 1.564e−11 ± 2.115e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

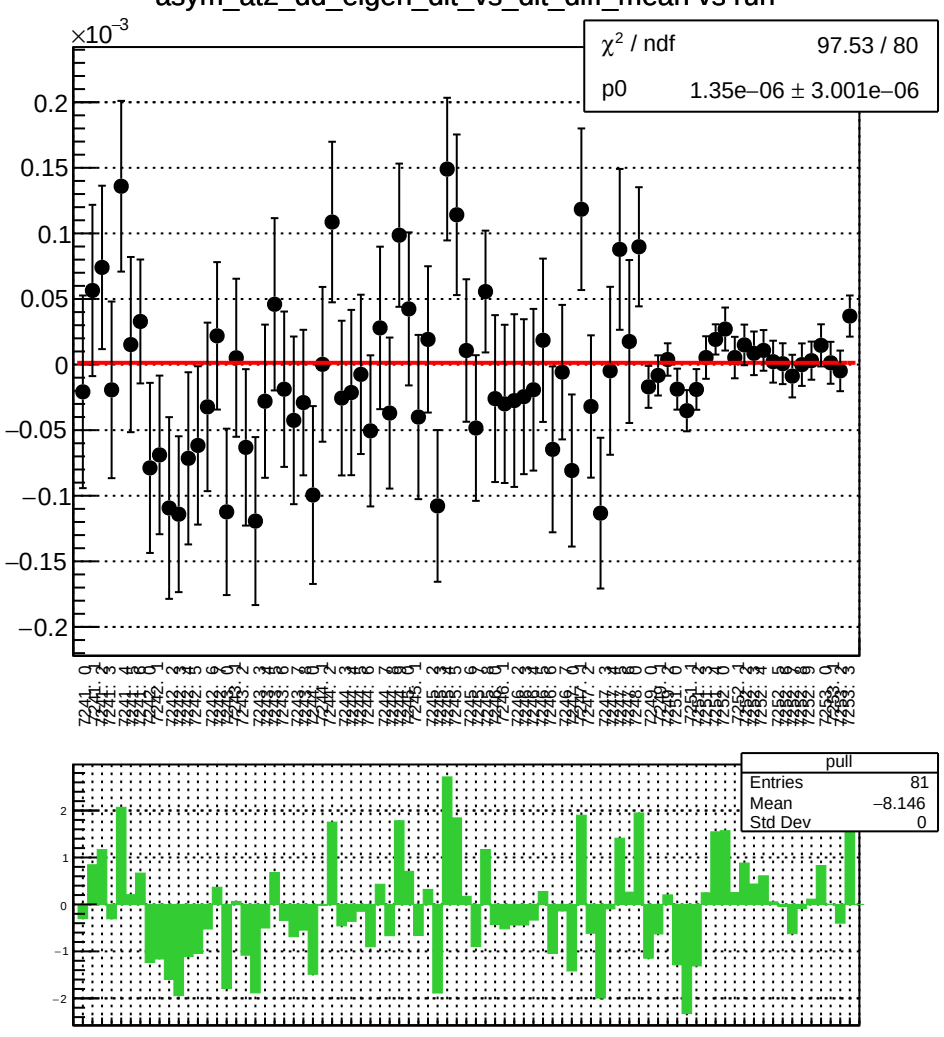

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 98.85 / 80
p0 −0.08493 ± 0.4109
pull
Entries 81
Mean −124.8
Std Dev 0

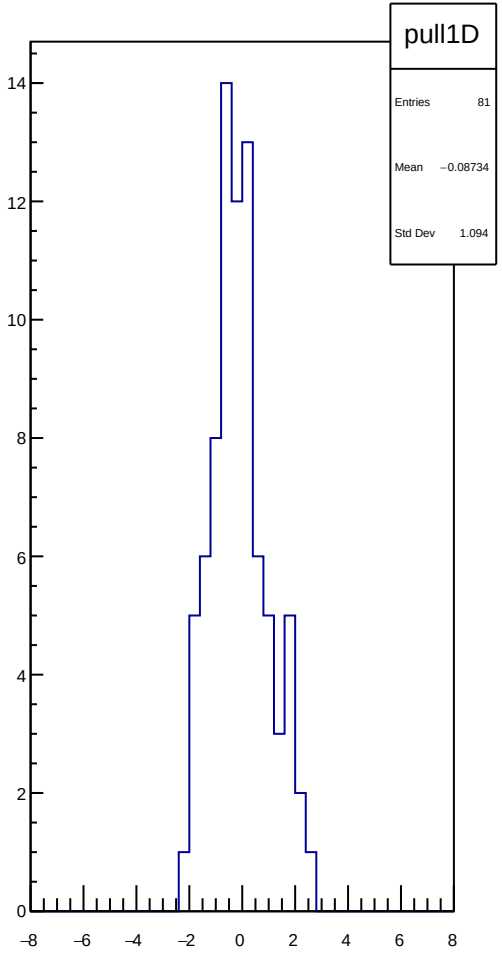

pull1D
Entries 81
Mean 0.02127
Std Dev 1.104

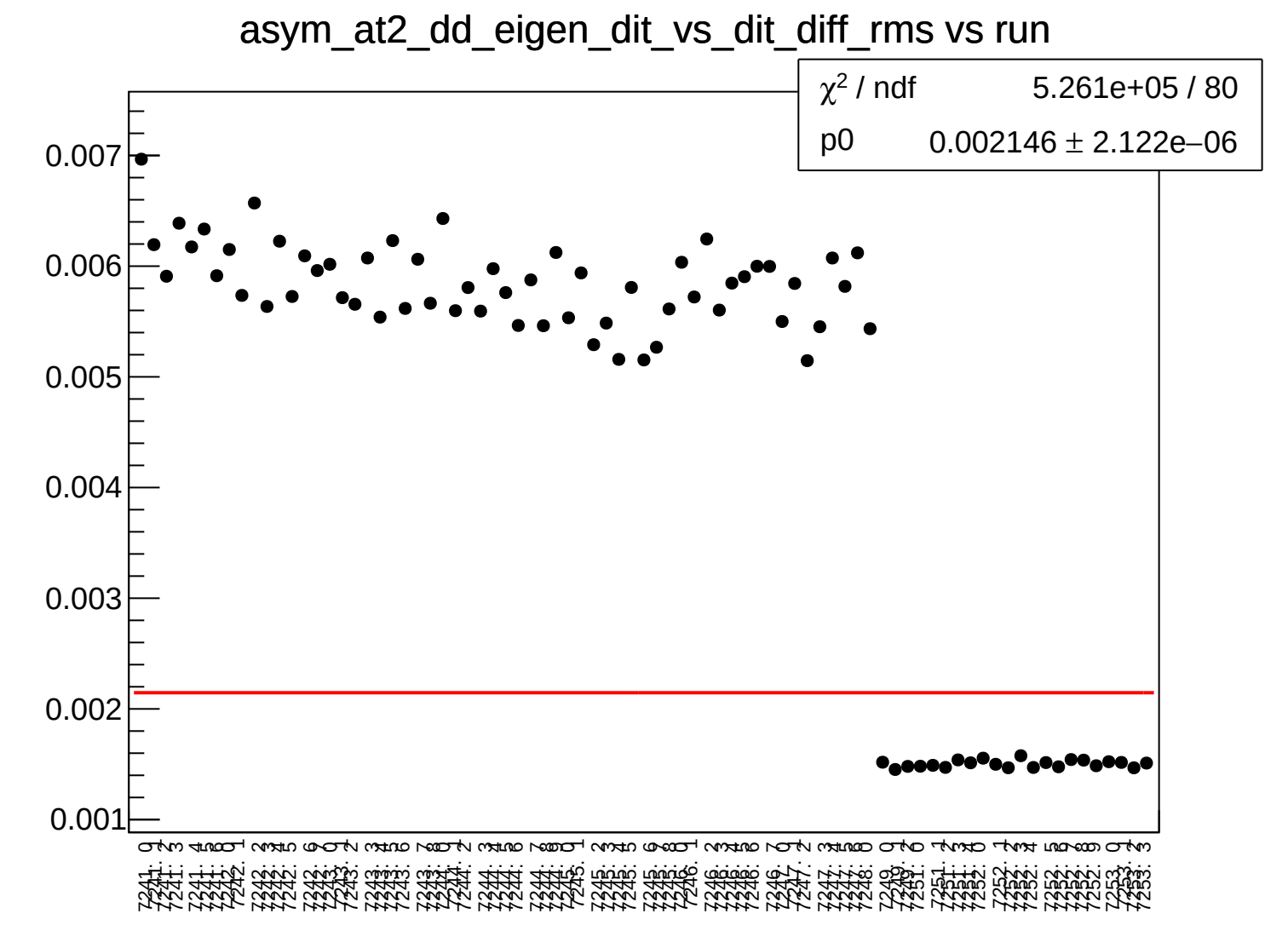

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.415e+04 / 80
p0 360 ± 0.2906
460
440
420
400
380
360
340
320
300
280
260

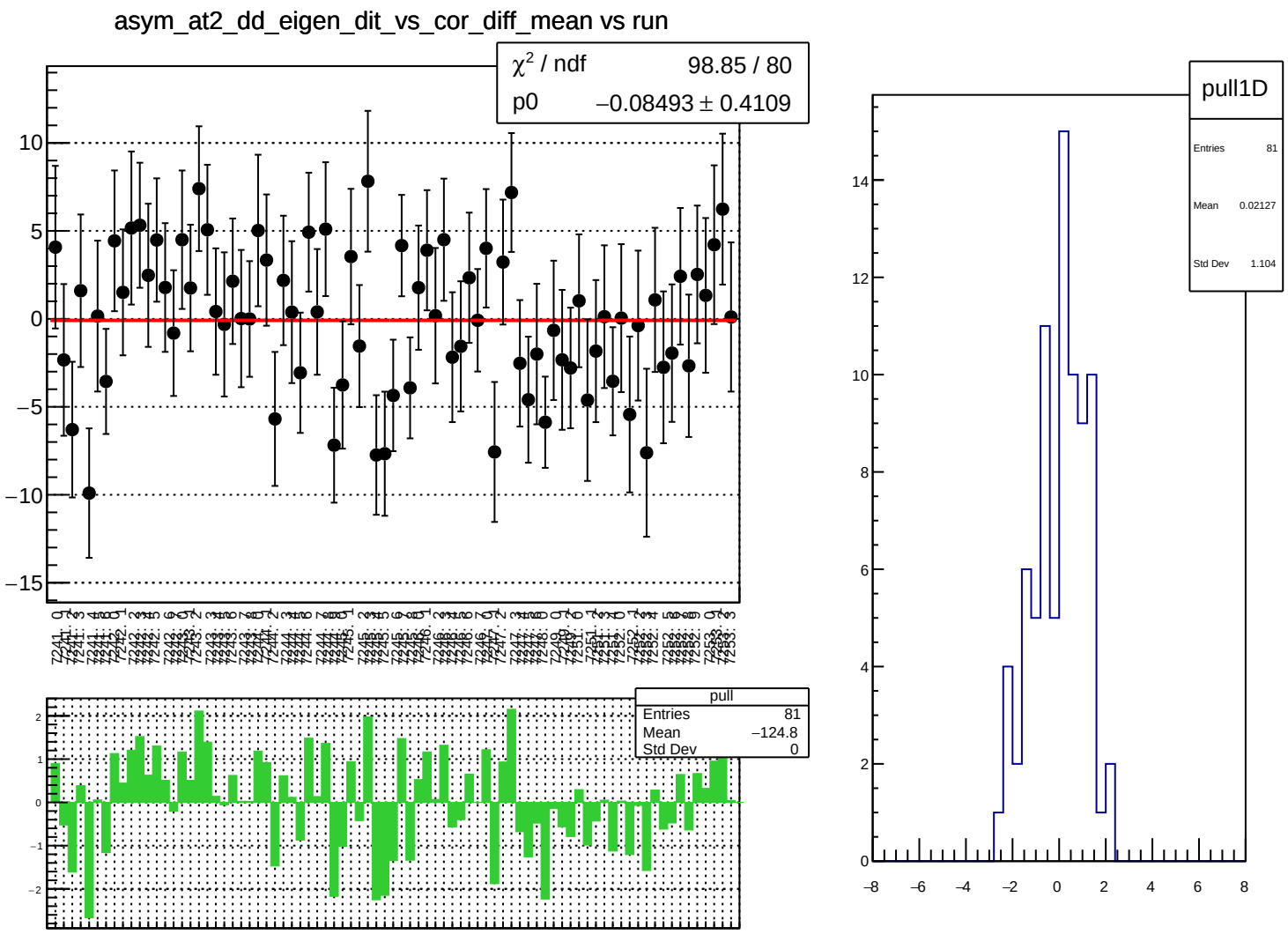

asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.85 / 80
p0 −0.08493 ± 0.4109
pull
Entries 81
Mean −124.8
Std Dev 0
pull1D
Entries 81
Mean 0.02127
Std Dev 1.104

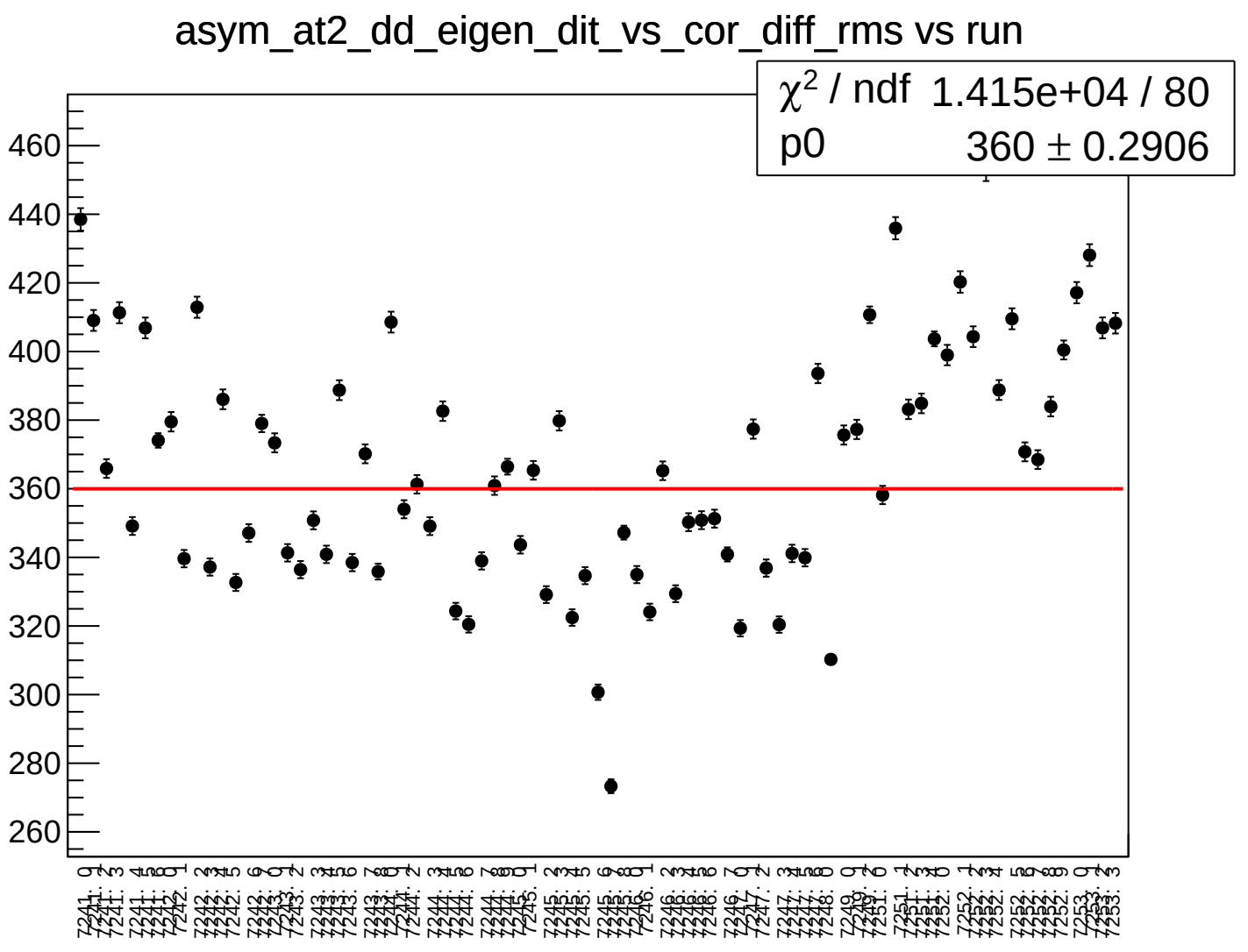

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.415e+04 / 80
p0 360 ± 0.2906
460
440
420
400
380
360
340
320
300
280
260

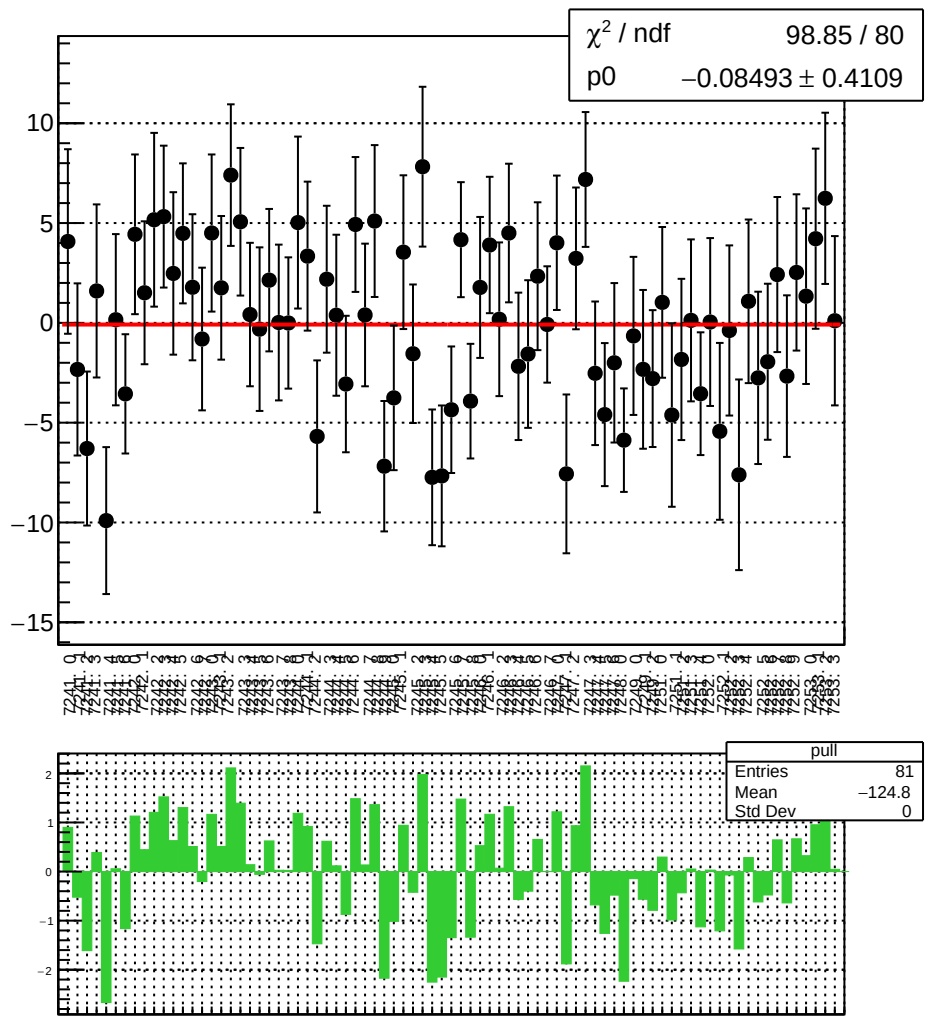

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.53 / 80
p0 1.35e−06 ± 3.001e−06
pull
Entries 81
Mean −8.146
Std Dev 0

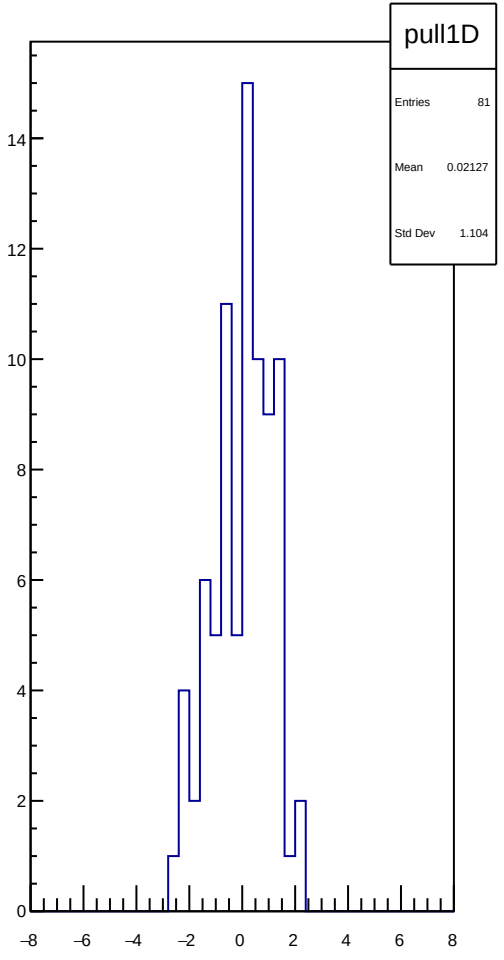

pull1D
Entries 81
Mean −0.08734
Std Dev 1.094

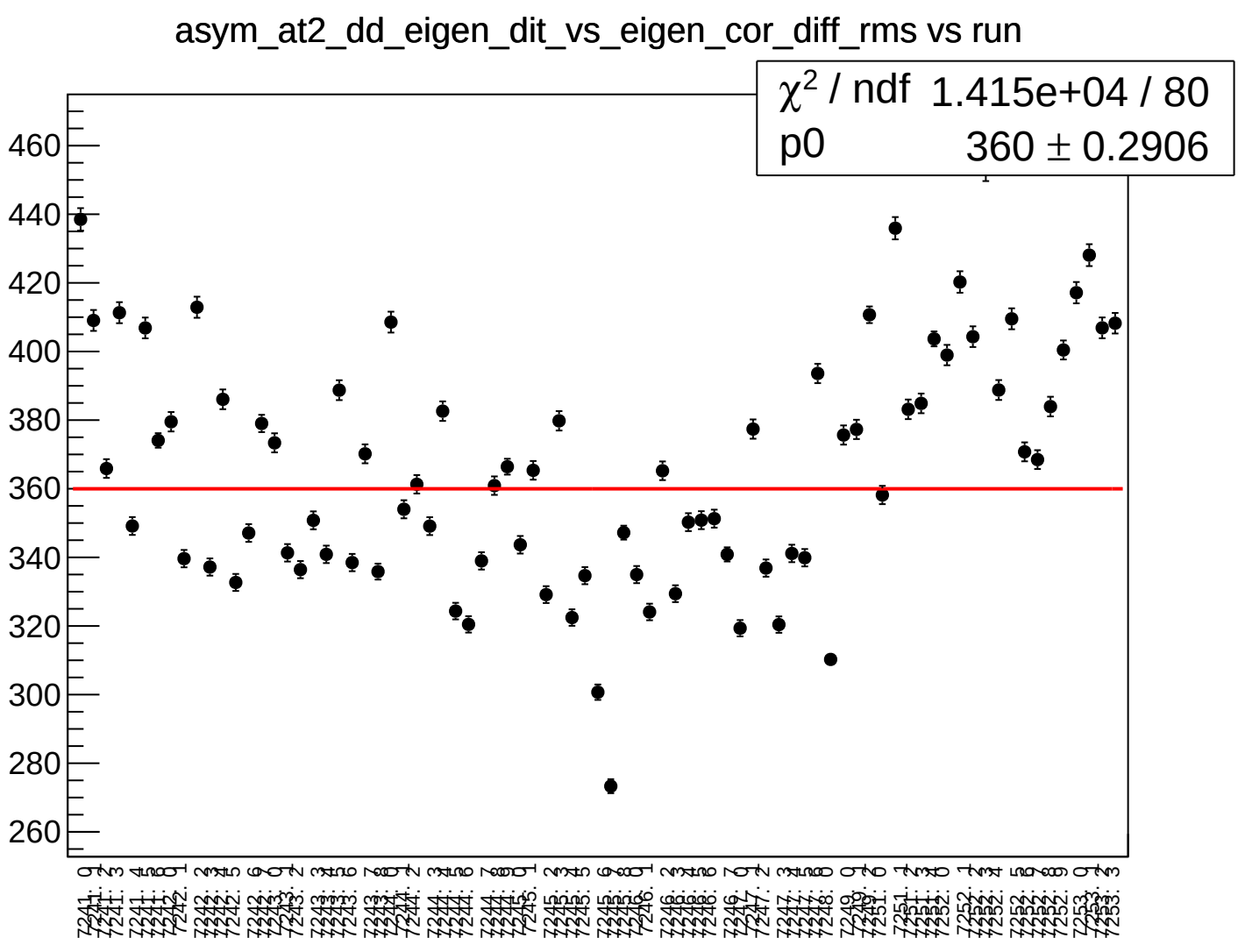

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.261e+05 / 80
p0 0.002146 ± 2.122e−06
0.007
0.006
0.005
0.004
0.003
0.002
0.001

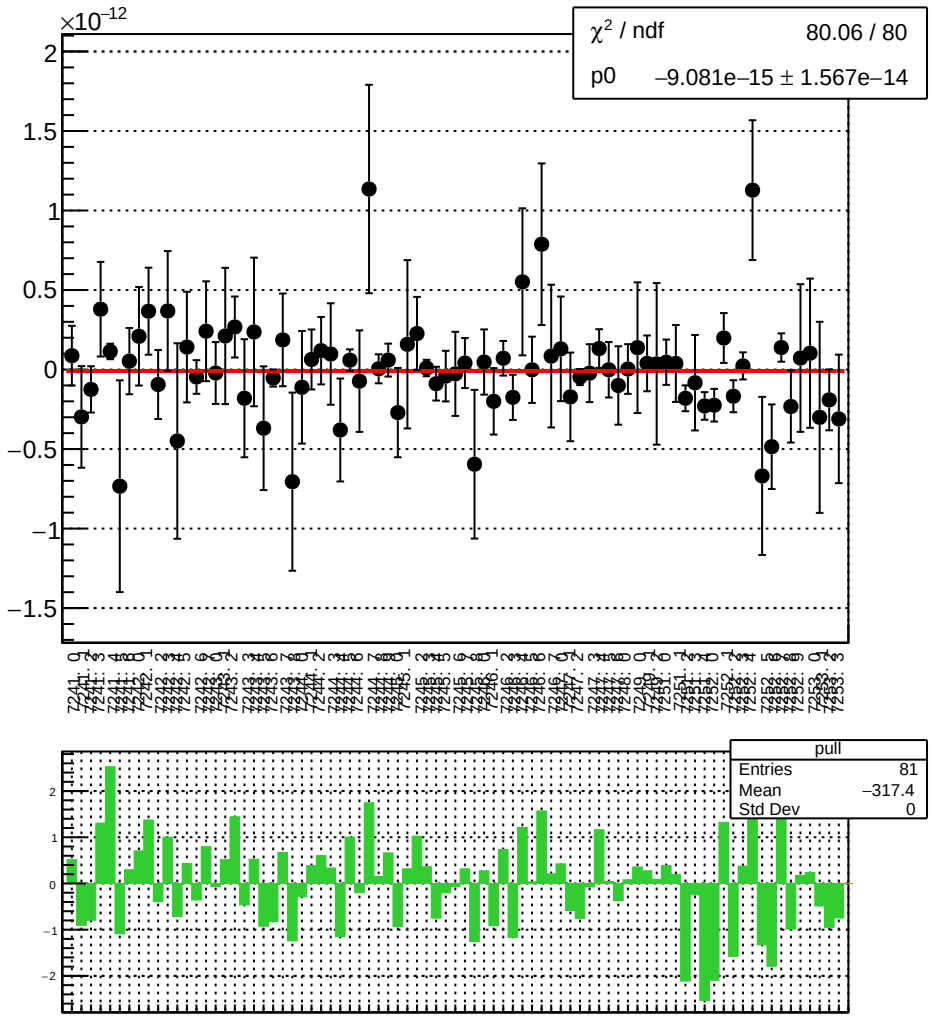

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.85 / 80
p0 −0.08493 ± 0.4109
pull
Entries 81
Mean −124.8
Std Dev 0
pull1D
Entries 81
Mean 0.02127
Std Dev 1.104

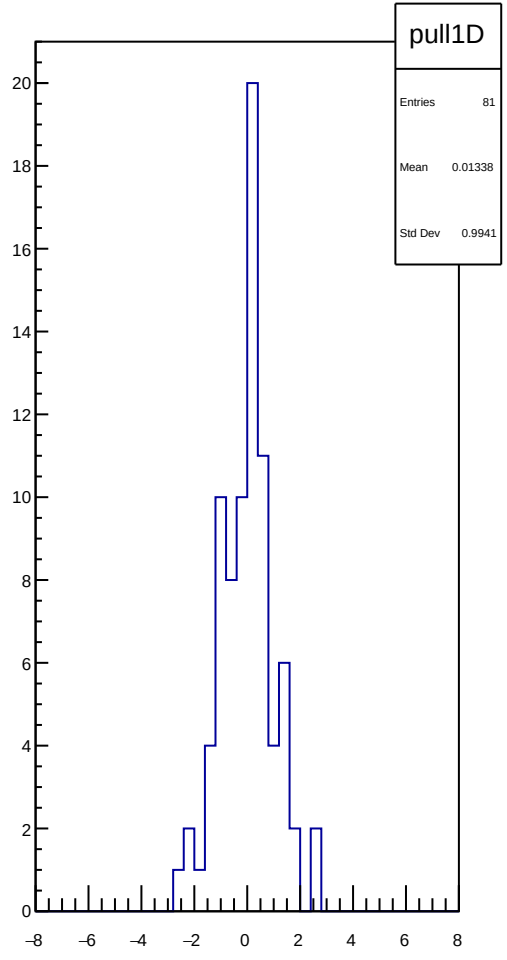

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.415e+04 / 80
p0 360 ± 0.2906
460
440
420
400
380
360
340
320
300
280
260

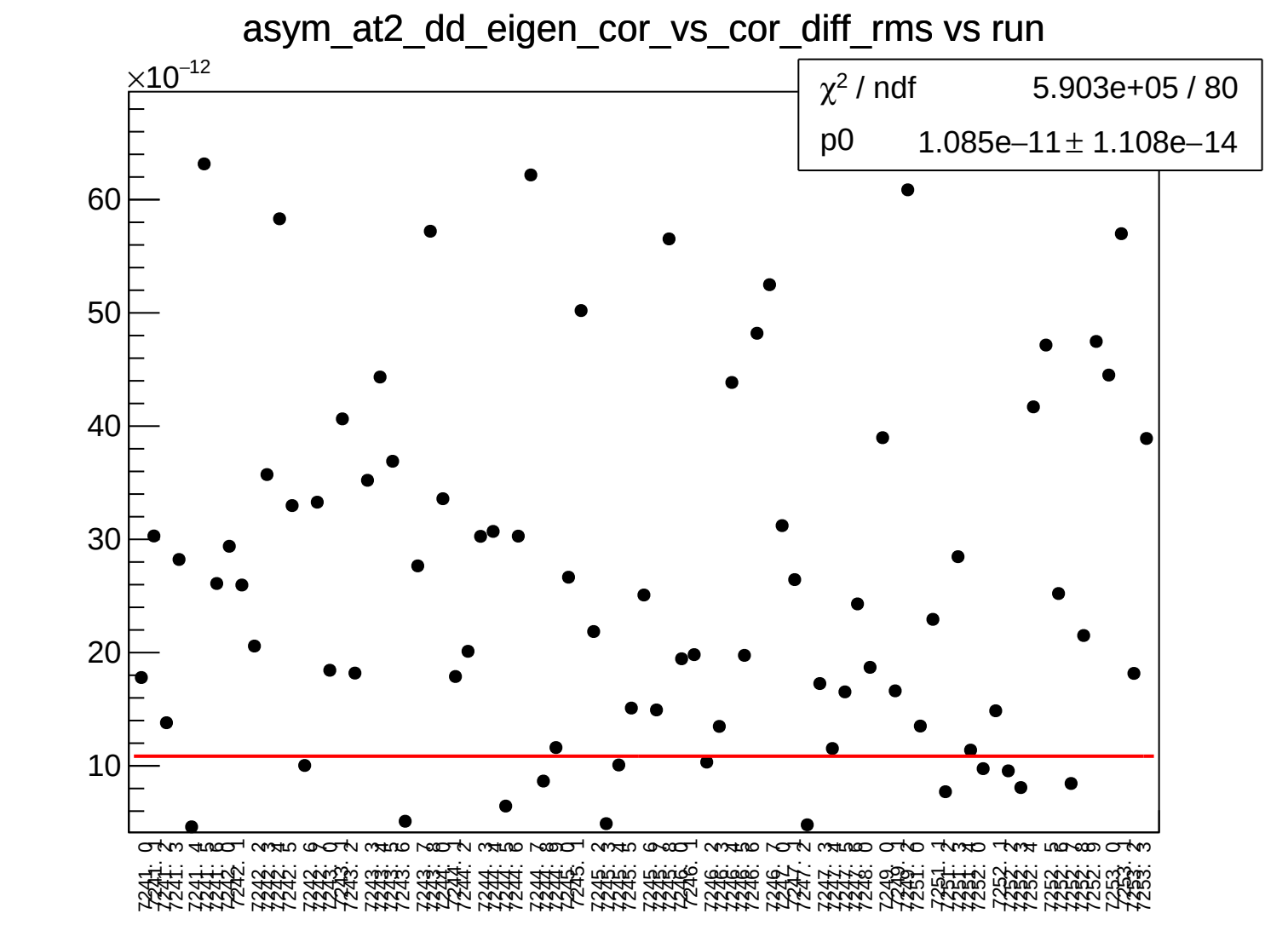

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.85 / 80
p0 −0.08493 ± 0.4109
pull
Entries 81
Mean −124.8
Std Dev 0

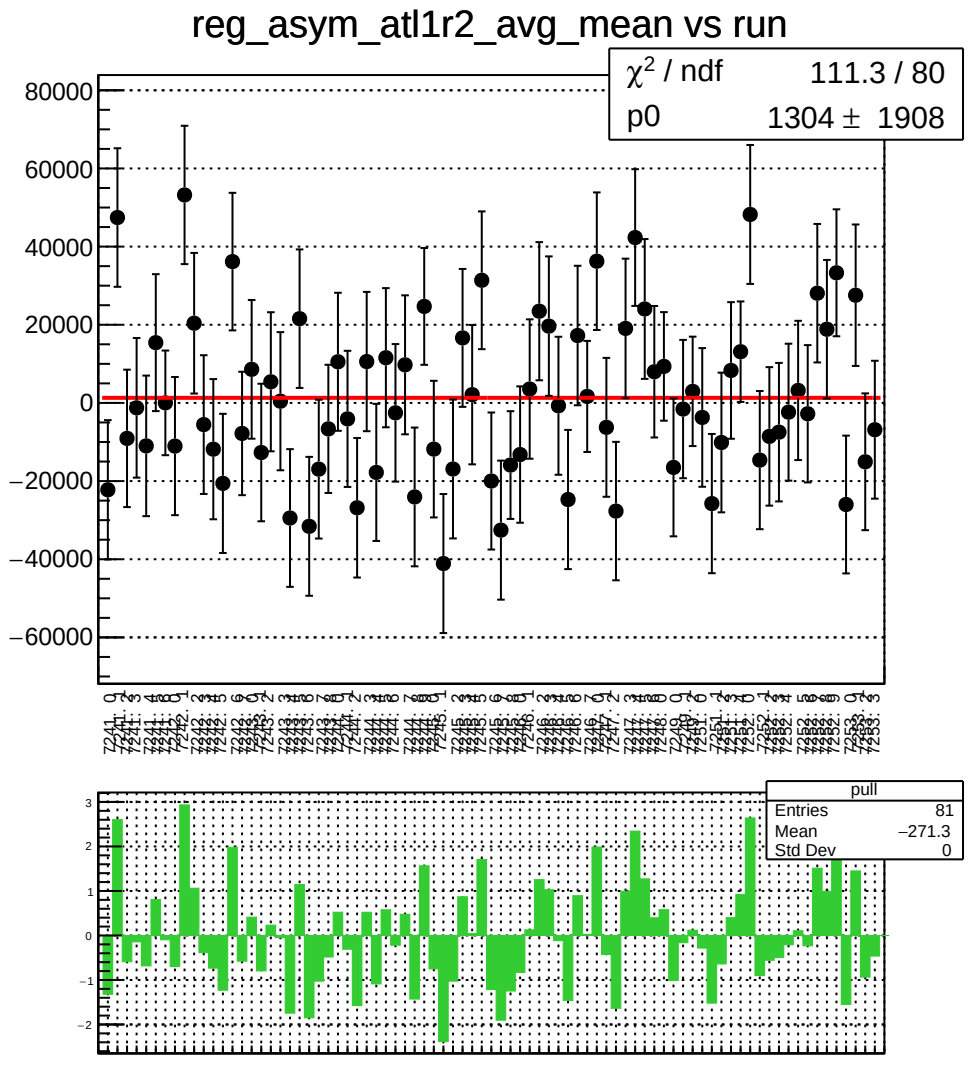

pull1D
Entries 81
Mean 0.02127
Std Dev 1.104

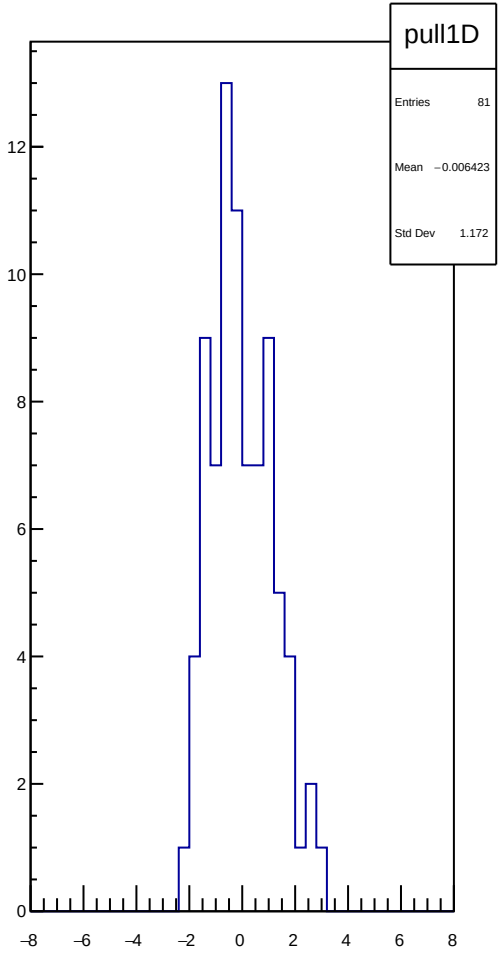

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.415e+04 / 80
p0 360 ± 0.2906
460
440
420
400
380
360
340
320
300
280
260

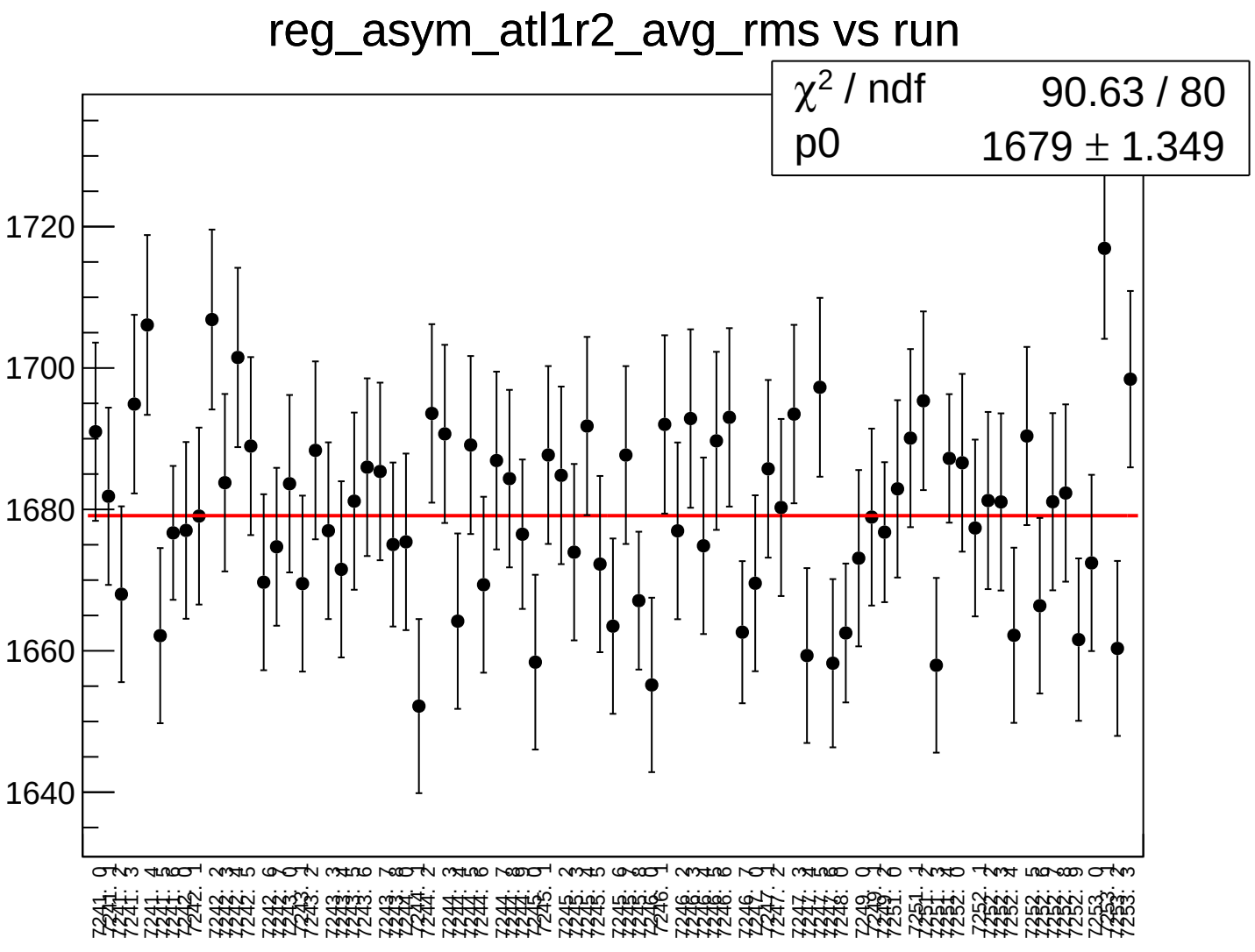

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.06 / 80
p0 −9.081e−15 ± 1.567e−14
pull
Entries 81
Mean −317.4
Std Dev 0

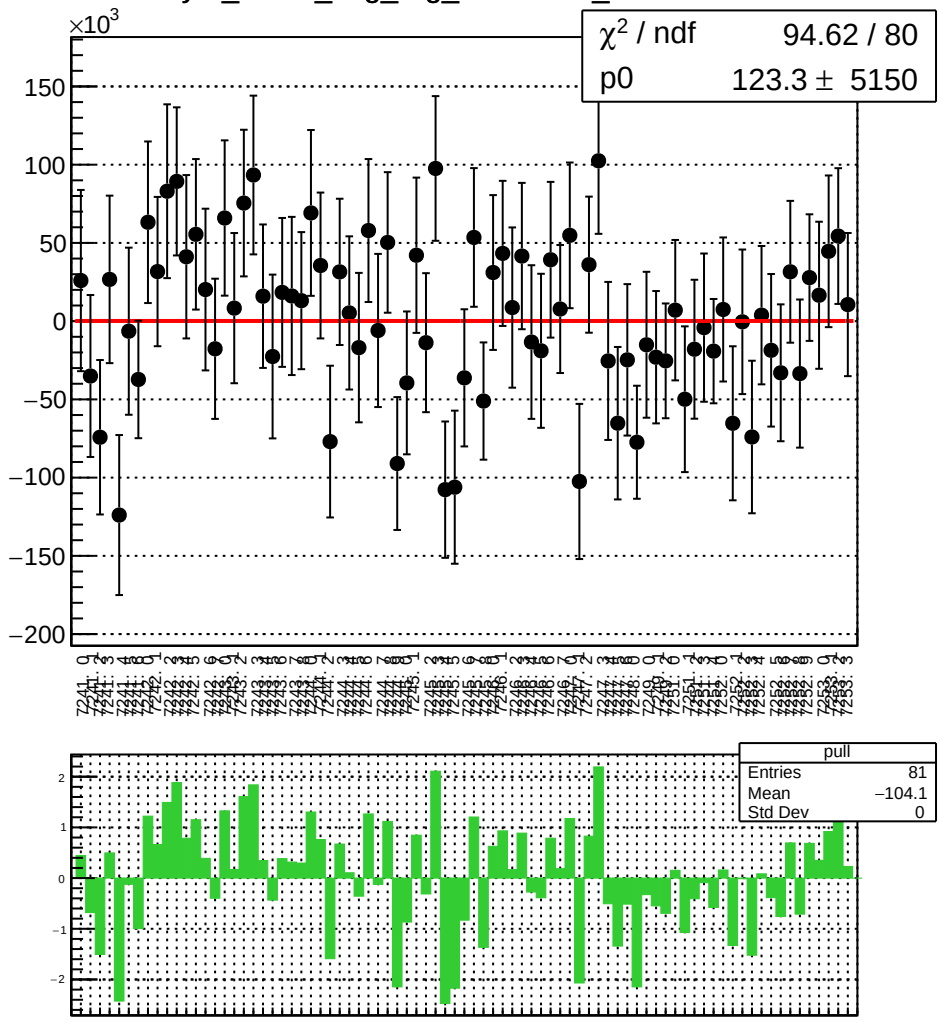

pull1D
Entries 81
Mean 0.01338
Std Dev 0.9941

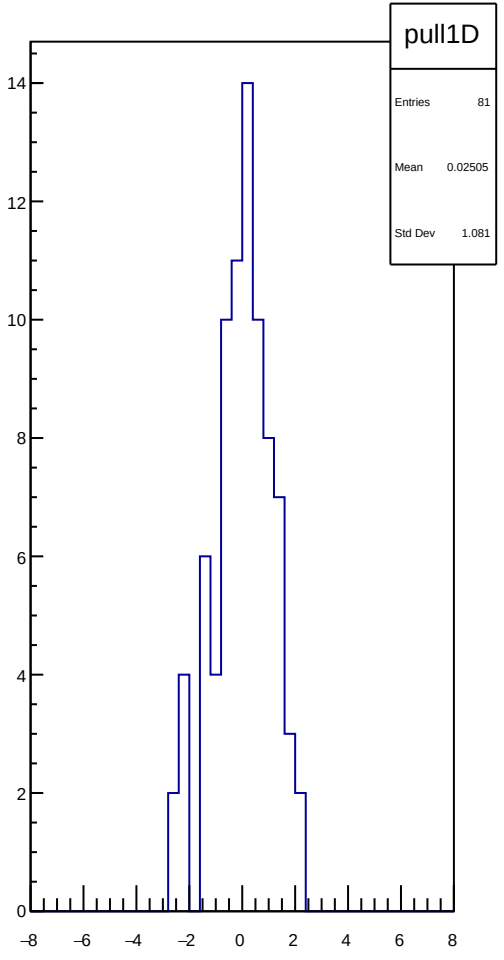

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.903e+05 / 80
p0 1.085e−11 ± 1.108e−14
60
50
40
30
20
10

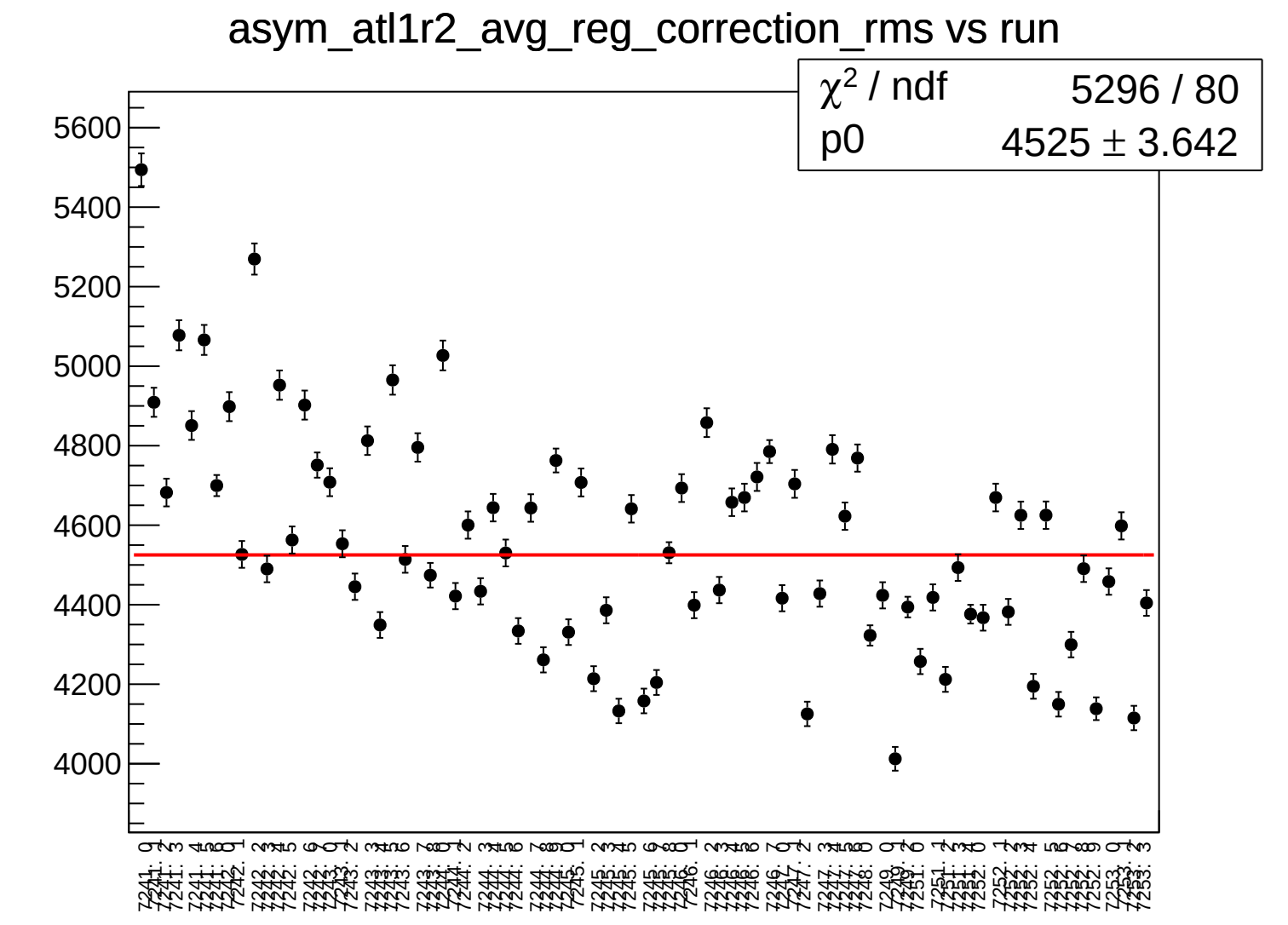

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 111.3 / 80
p0 1304 ± 1908
pull
Entries 81
Mean −271.3
Std Dev 0

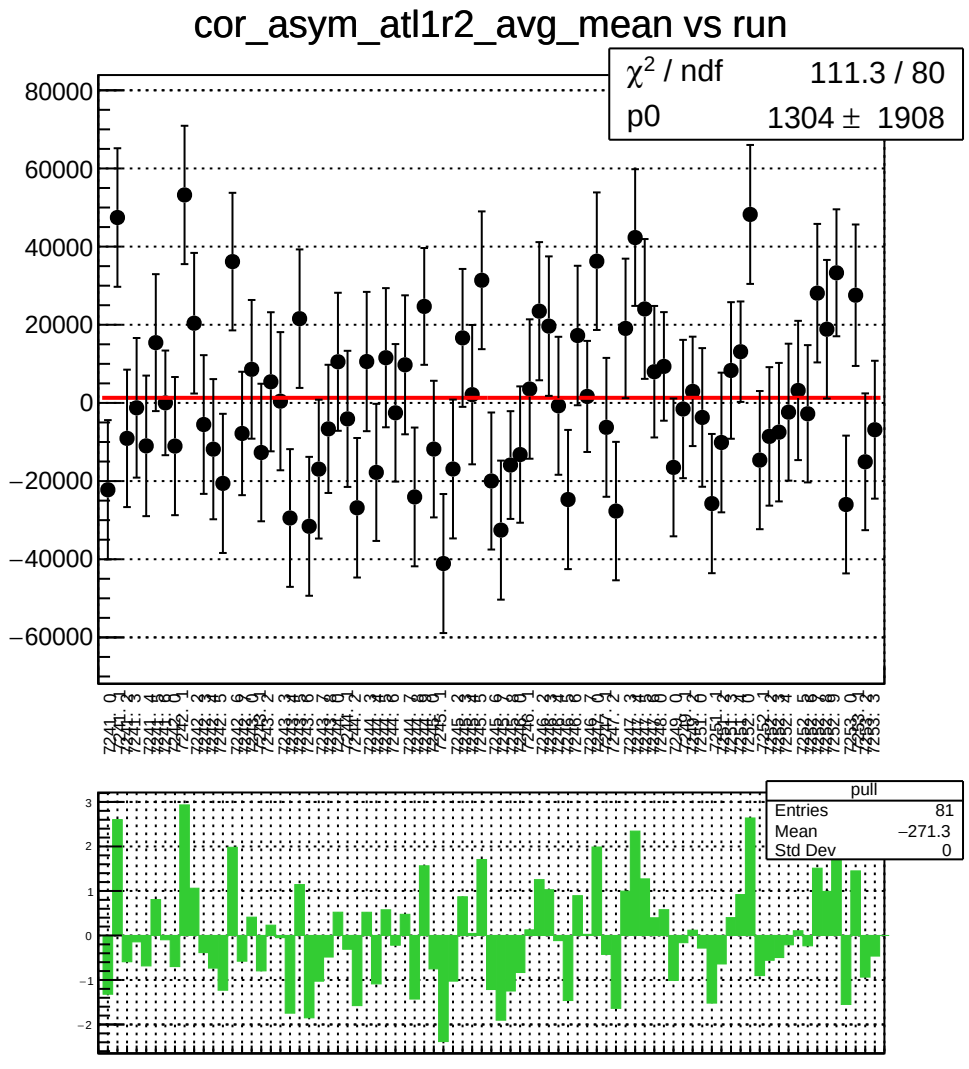

pull1D
Entries 81
Mean −0.006423
Std Dev 1.172

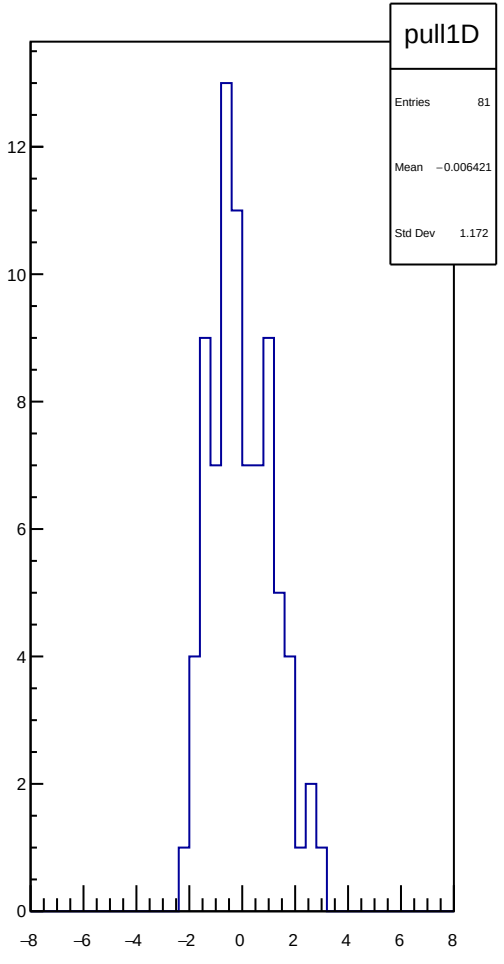

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 90.63 / 80
p0 1679 ± 1.349
1720
1700
1680
1660
1640

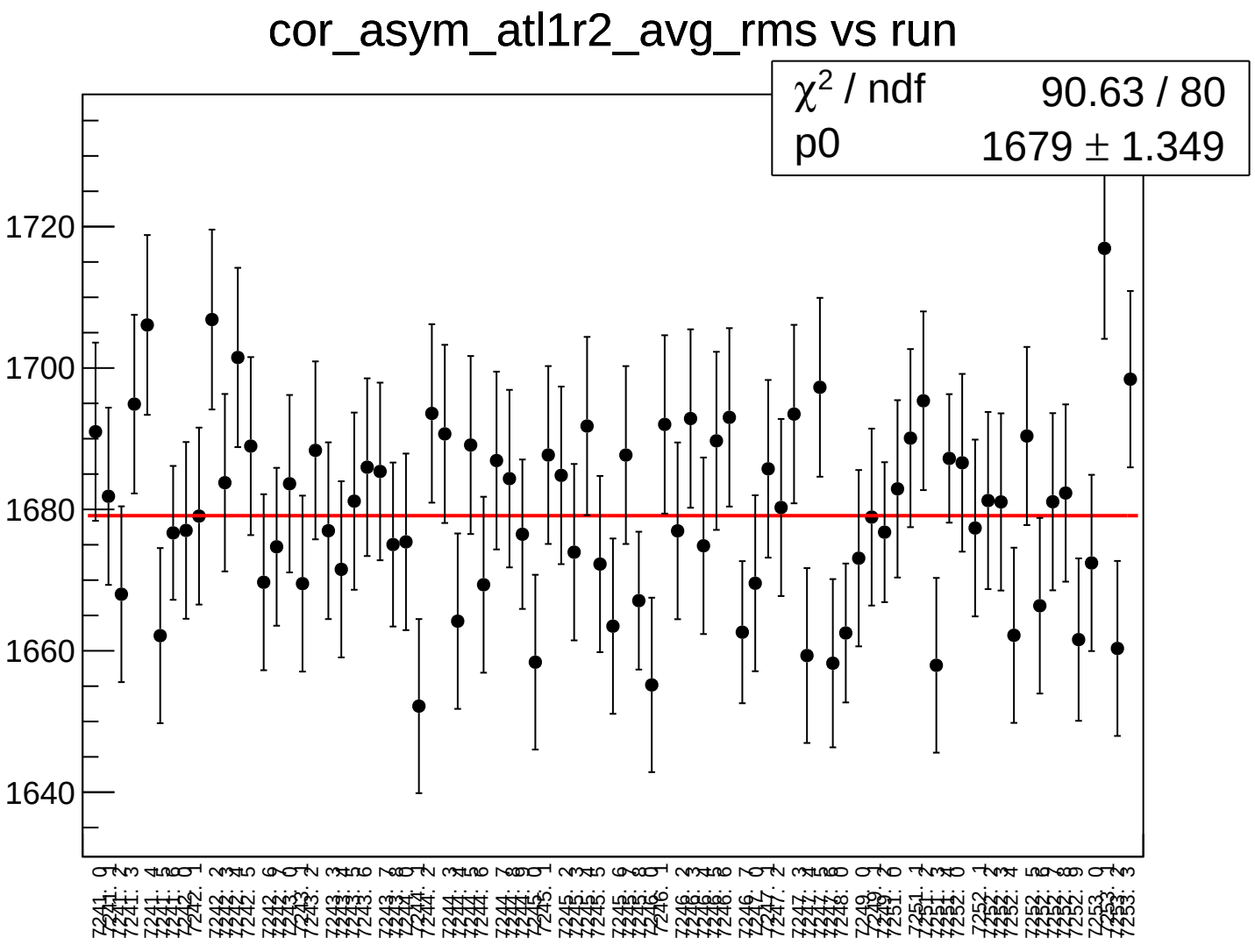

asym_atl1r2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 94.62 / 80
p0 123.3 ± 5150
150
100
50
0
−50
−100
−150
−200
pull
Entries 81
Mean −104.1
Std Dev 0
2
1
0
−1
−2

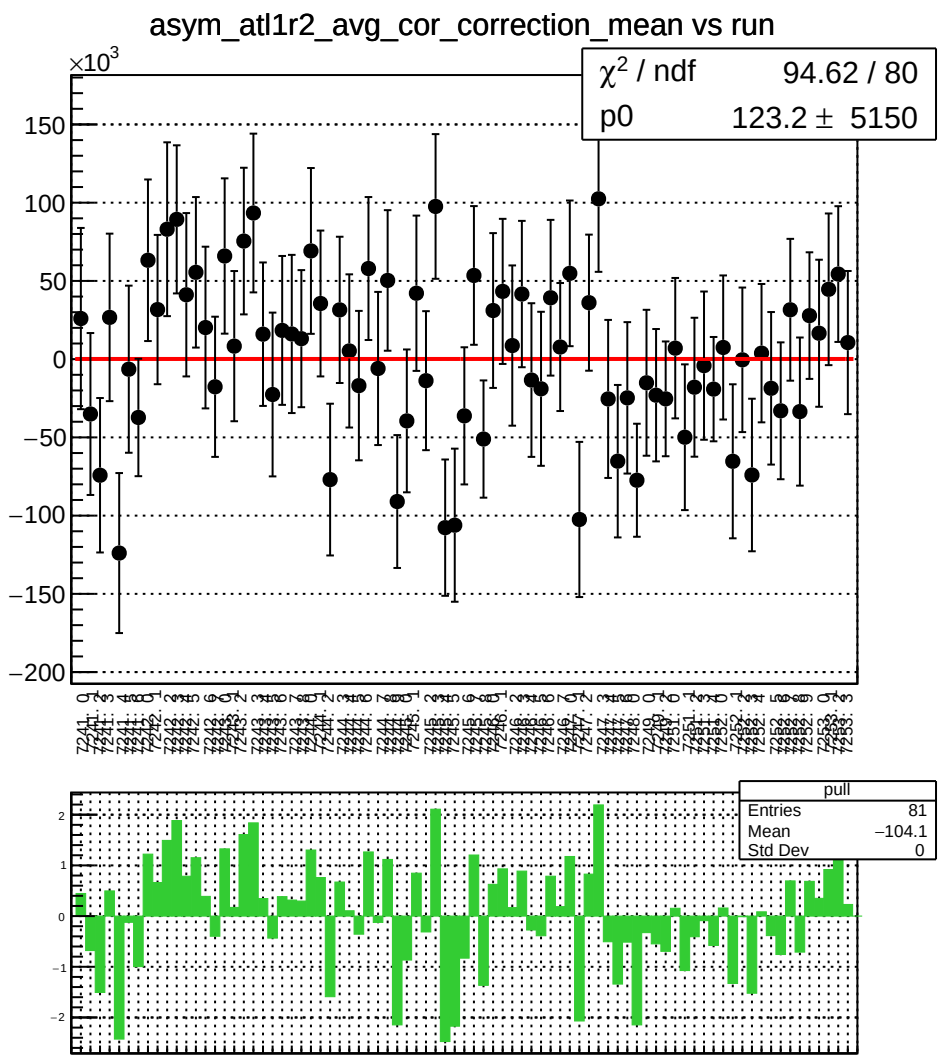

pull1D
Entries 81
Mean 0.02505
Std Dev 1.081
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

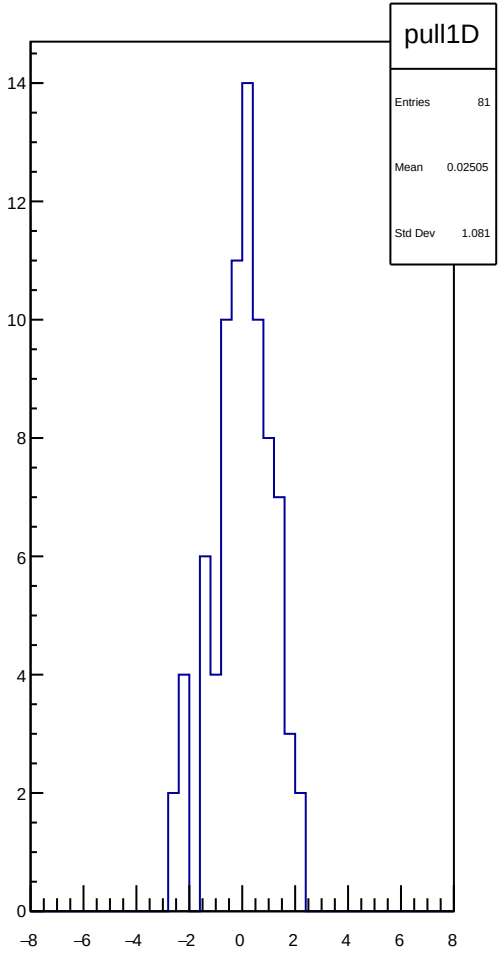

asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 5296 / 80
p0 4525 ± 3.642
5600
5400
5200
5000
4800
4600
4400
4200
4000

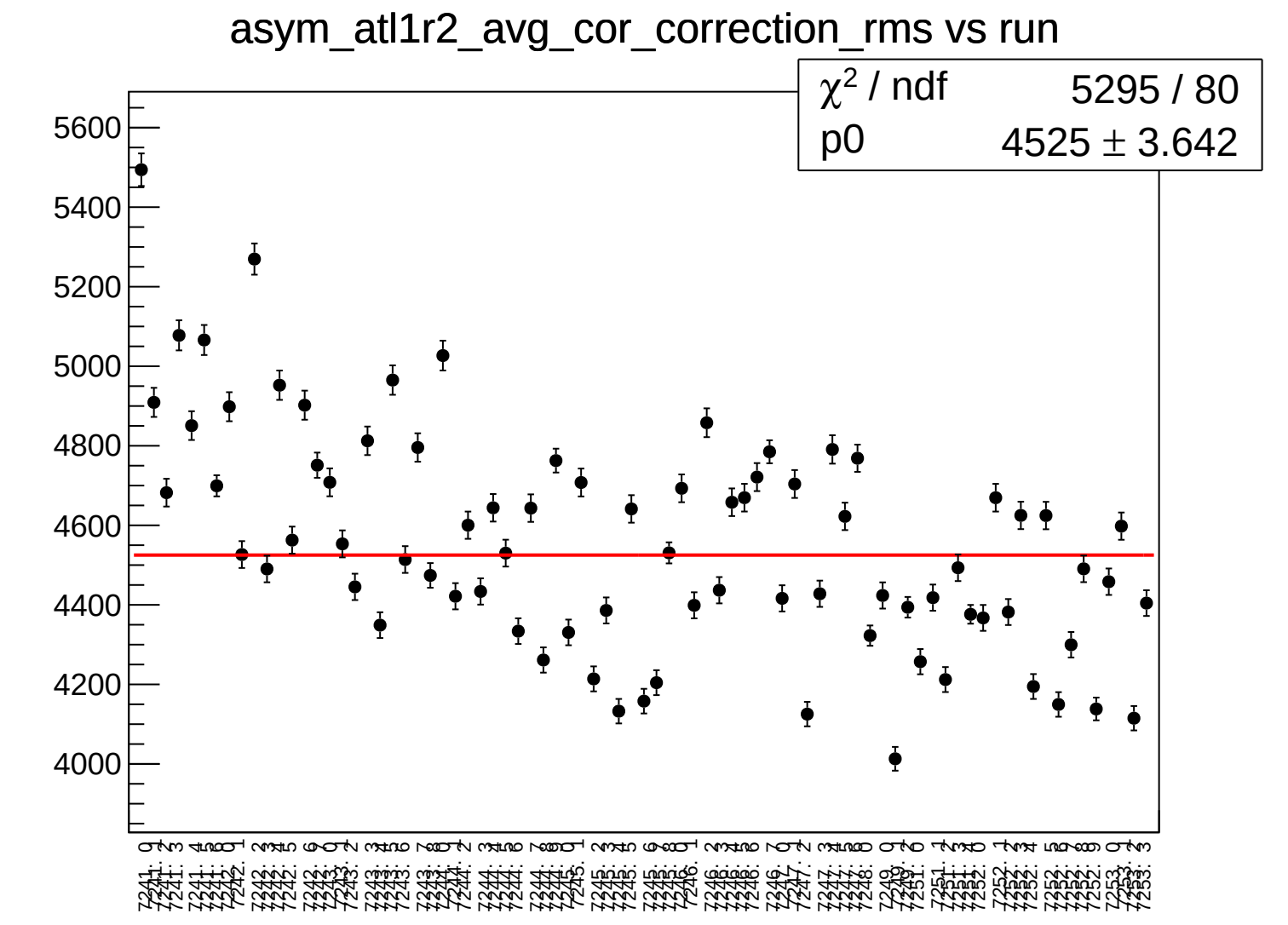

cor_asym_atl1r2_avg_mean vs run
χ² / ndf 111.3 / 80
p0 1304 ± 1908
pull
Entries 81
Mean −271.3
Std Dev 0

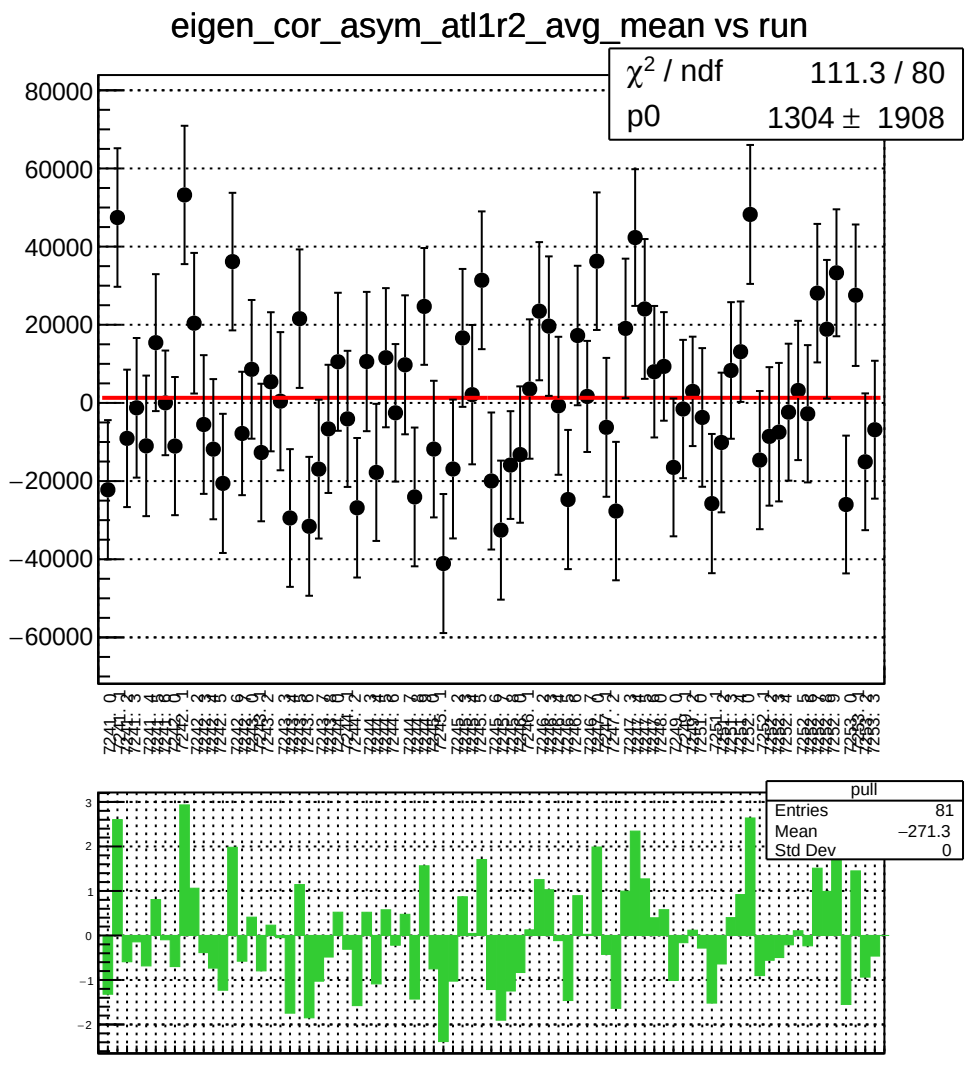

pull1D
Entries 81
Mean −0.006421
Std Dev 1.172

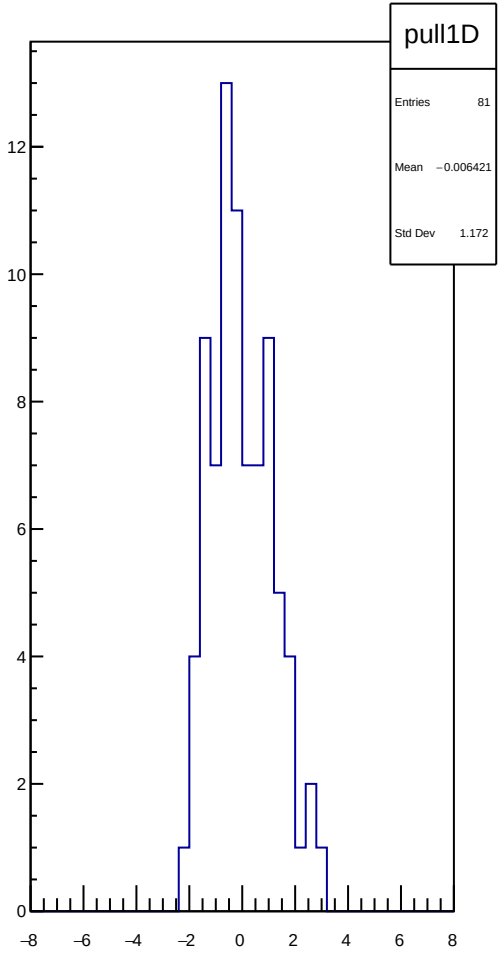

cor_asym_atl1r2_avg_rms vs run
χ^2 / ndf 90.63 / 80
p0 1679 ± 1.349
1720
1700
1680
1660
1640

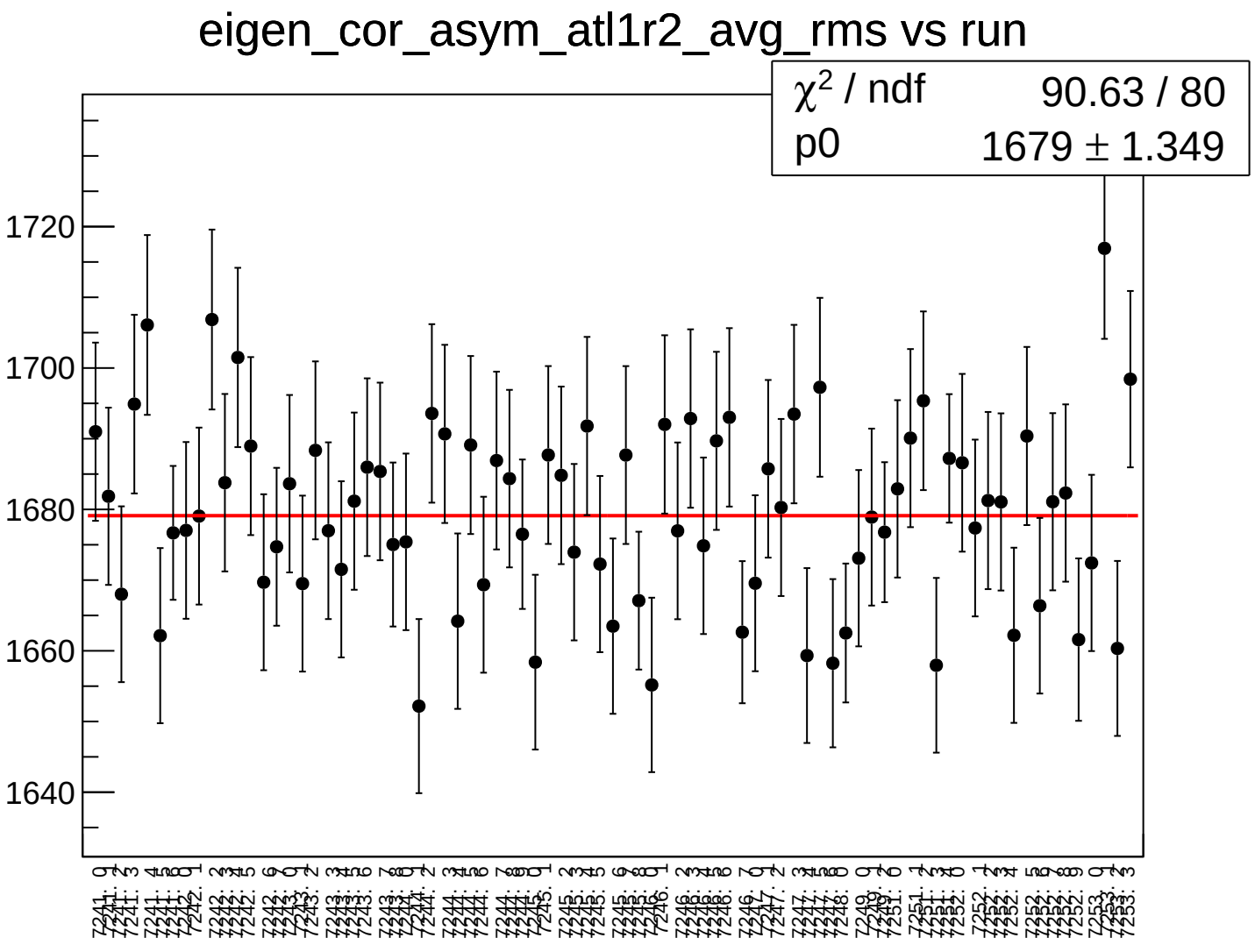

asym_atl1r2_avg_cor_correction_mean vs run
χ^2 / ndf 94.62 / 80
p0 123.2 ± 5150
×10^3
pull
Entries 81
Mean −104.1
Std Dev 0

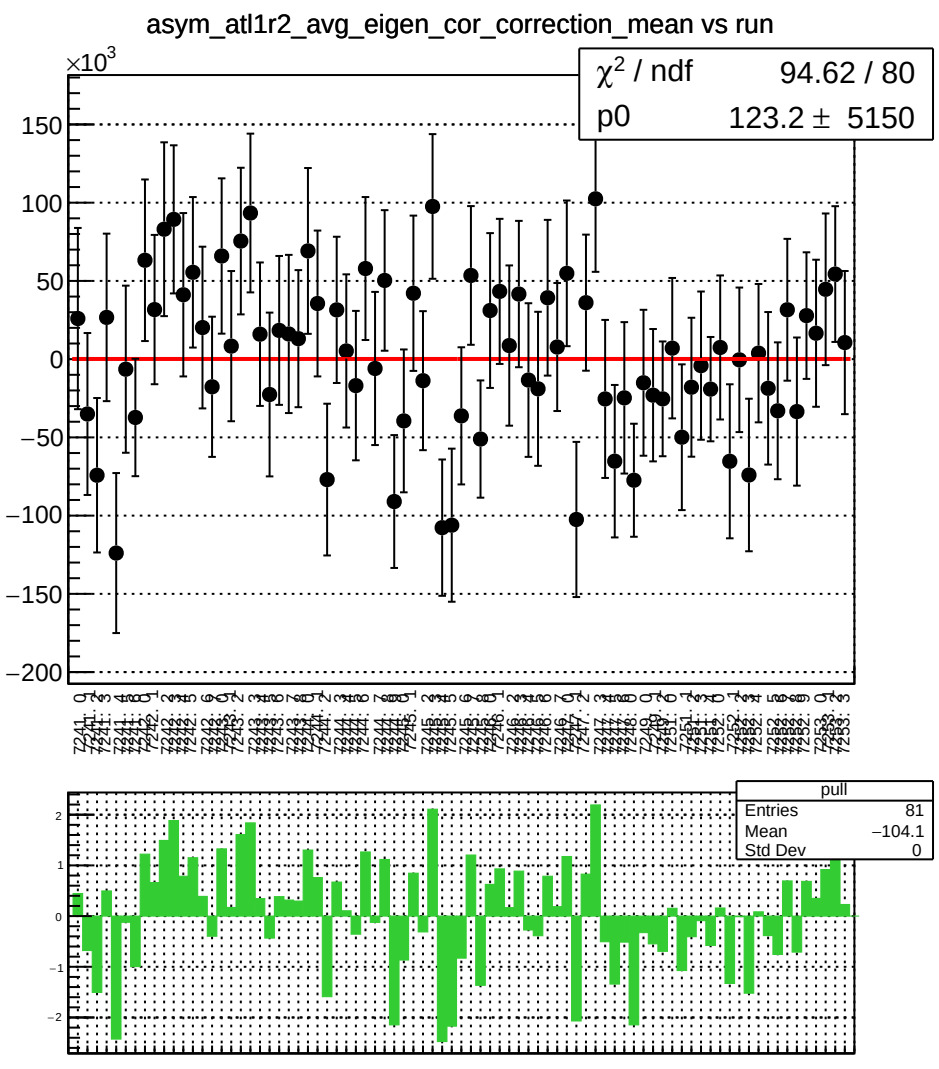

pull1D
Entries 81
Mean 0.02505
Std Dev 1.081

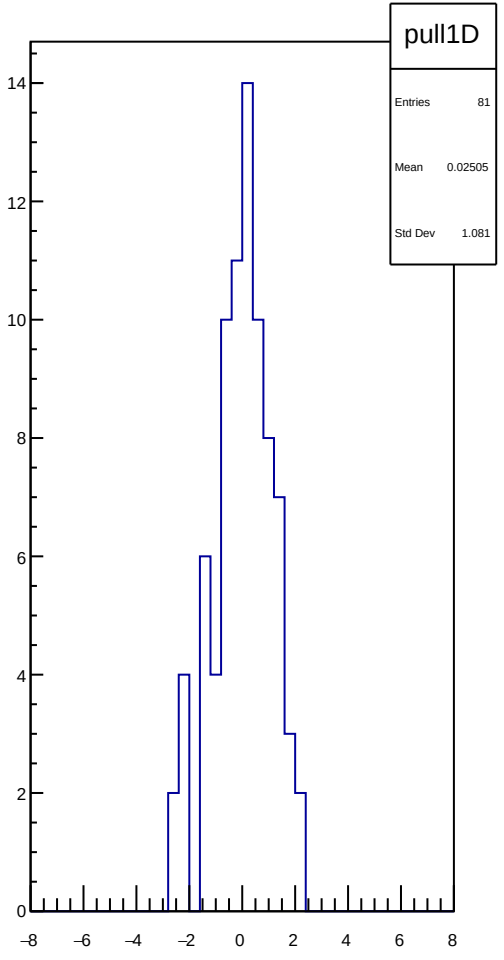

asym_atl1r2_avg_cor_correction_rms vs run
χ^2 / ndf 5295 / 80
p0 4525 ± 3.642
5600
5400
5200
5000
4800
4600
4400
4200
4000

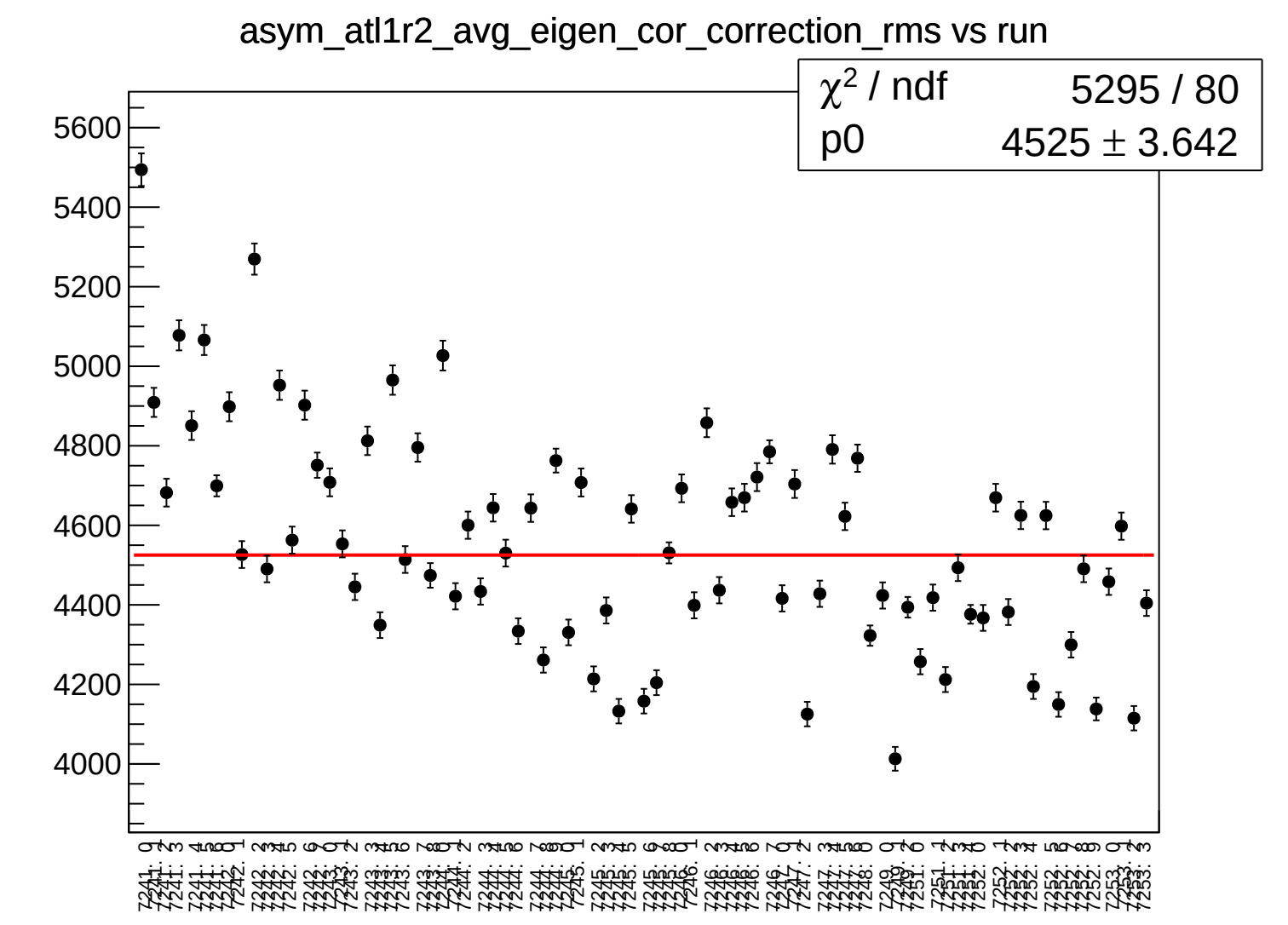

eigen_cor_asym_atl1r2_avg_mean vs run
χ² / ndf 111.3 / 80
p0 1304 ± 1908
pull
Entries 81
Mean −271.3
Std Dev 0

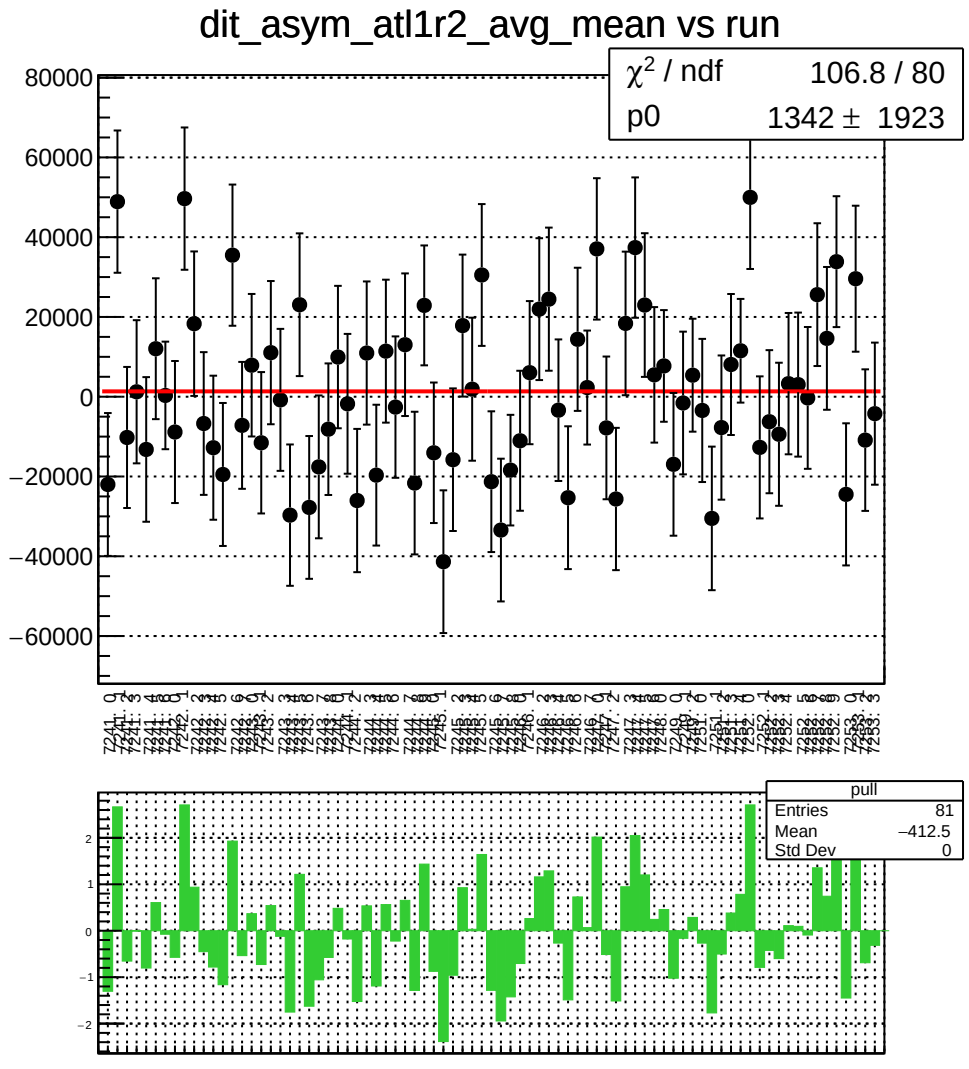

pull1D
Entries 81
Mean −0.006421
Std Dev 1.172

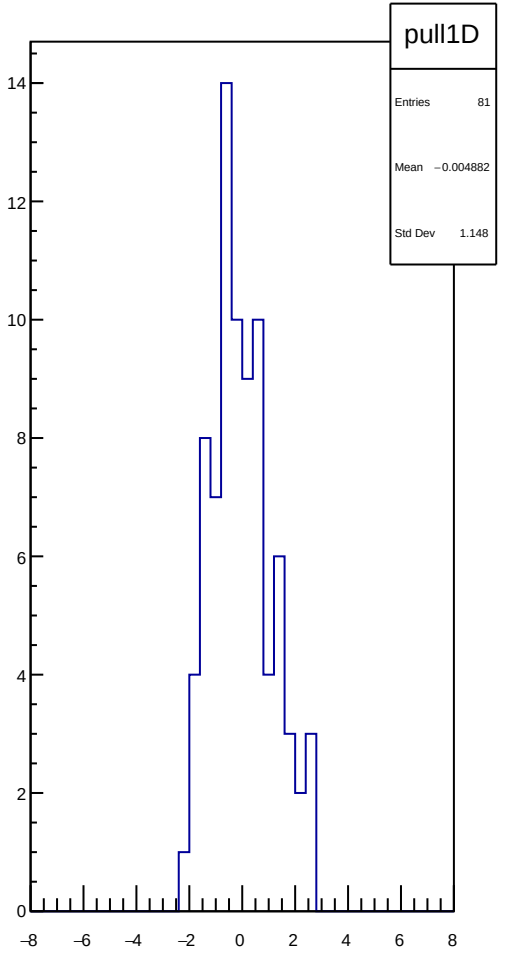

eigen_cor_asym_atl1r2_avg_rms vs run
χ² / ndf 90.63 / 80
p0 1679 ± 1.349
1720
1700
1680
1660
1640

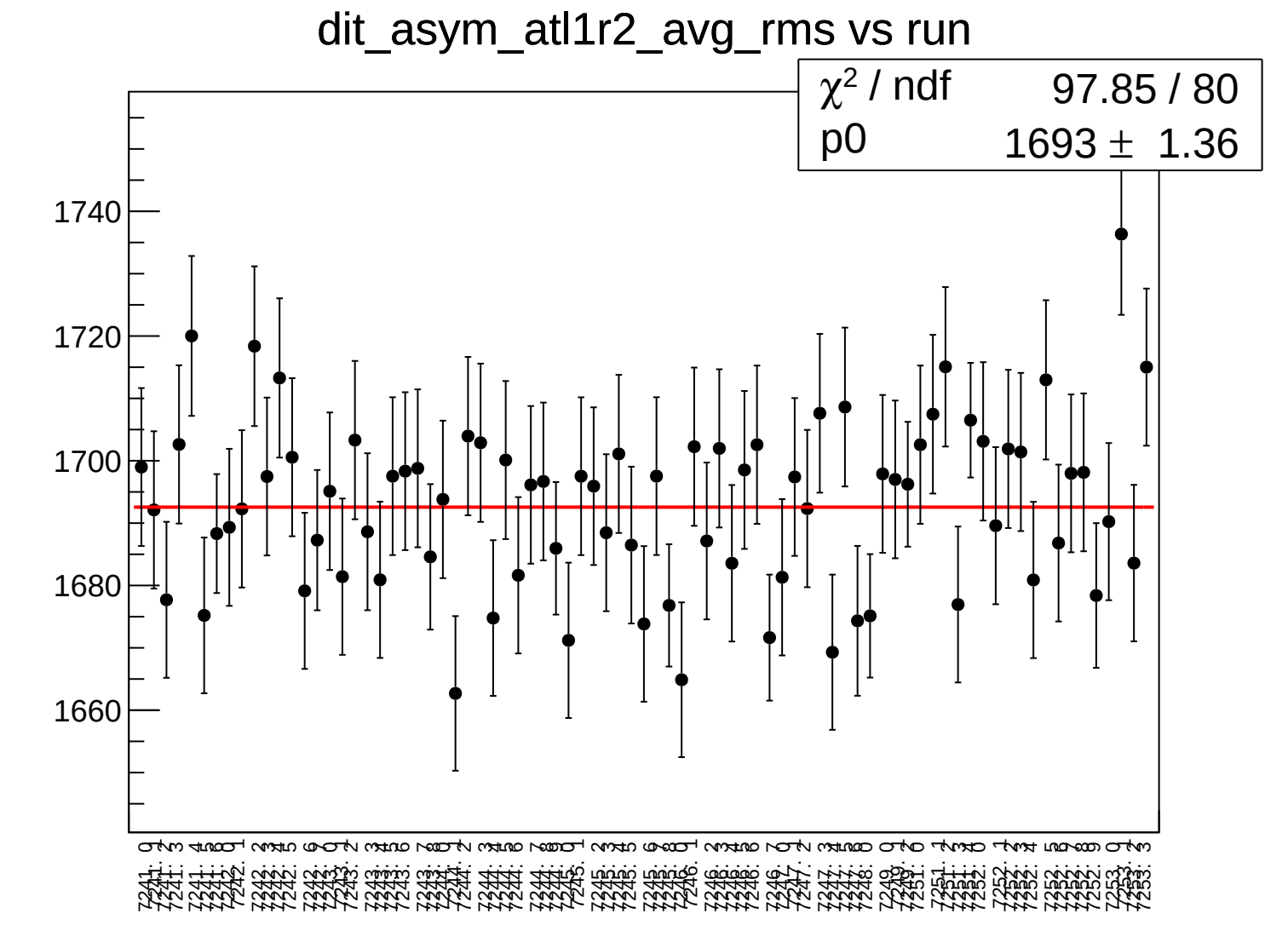

asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 94.62 / 80
p0 123.2 ± 5150
150
100
50
0
−50
−100
−150
−200
pull
Entries 81
Mean −104.1
Std Dev 0
2
1
0
−1
−2

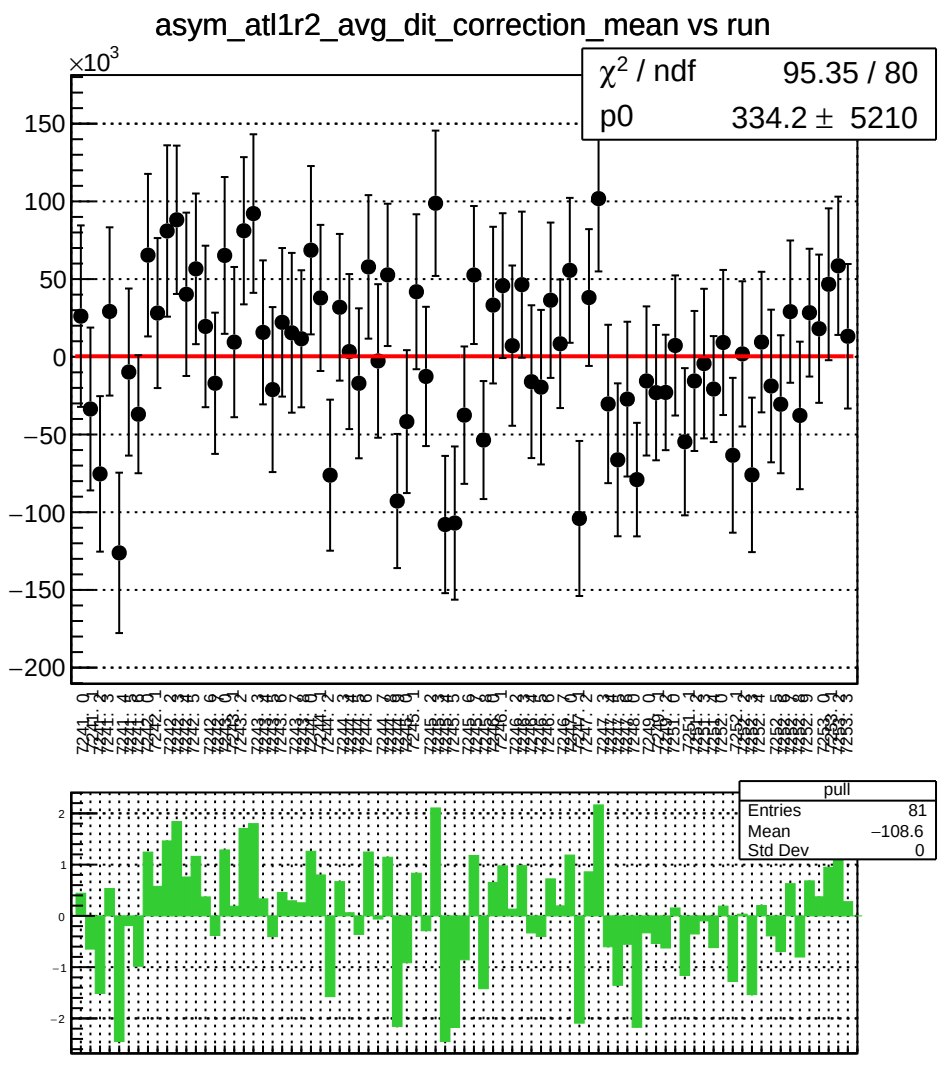

pull1D
Entries 81
Mean 0.02505
Std Dev 1.081
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

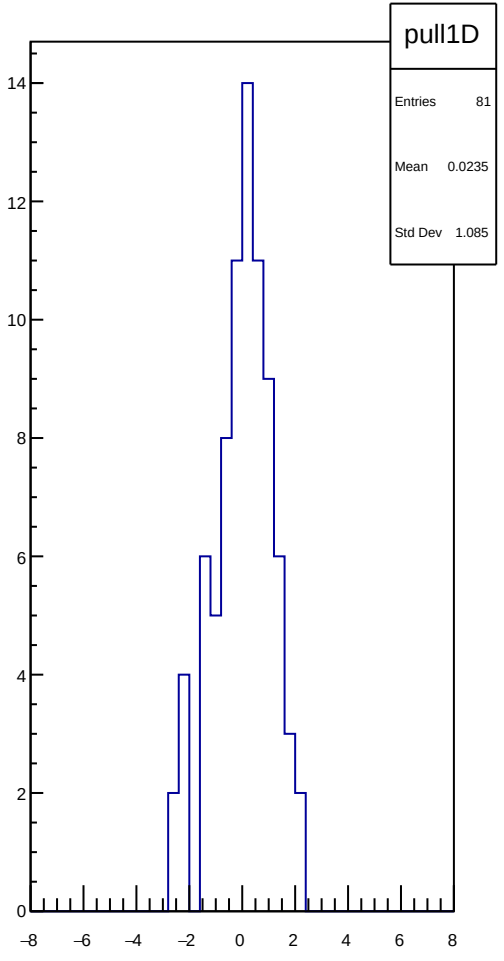

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 5295 / 80
p0 4525 ± 3.642
5600
5400
5200
5000
4800
4600
4400
4200
4000

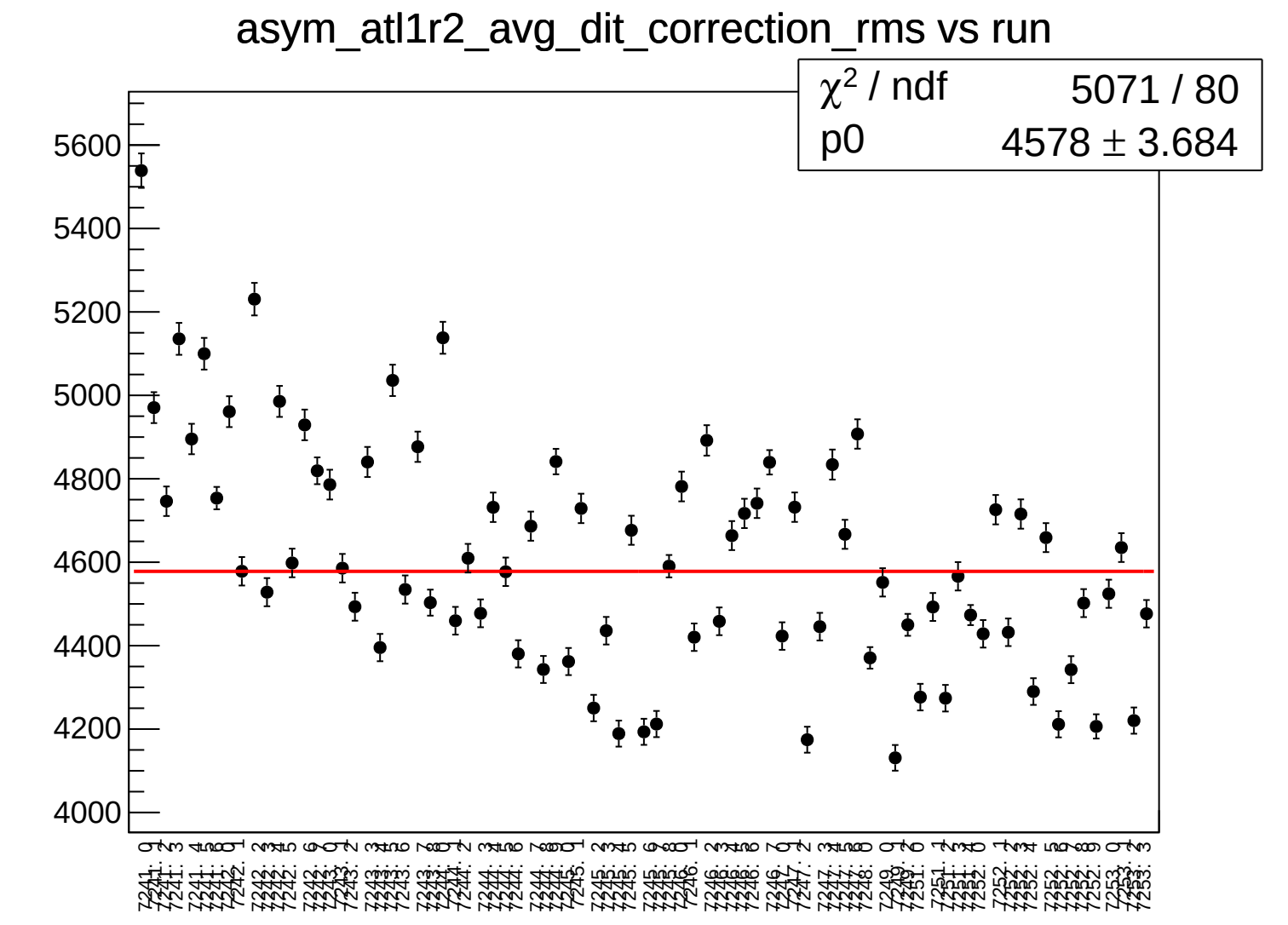

dit_asym_atl1r2_avg_mean vs run
χ² / ndf 106.8 / 80
p0 1342 ± 1923
pull
Entries 81
Mean −412.5
Std Dev 0

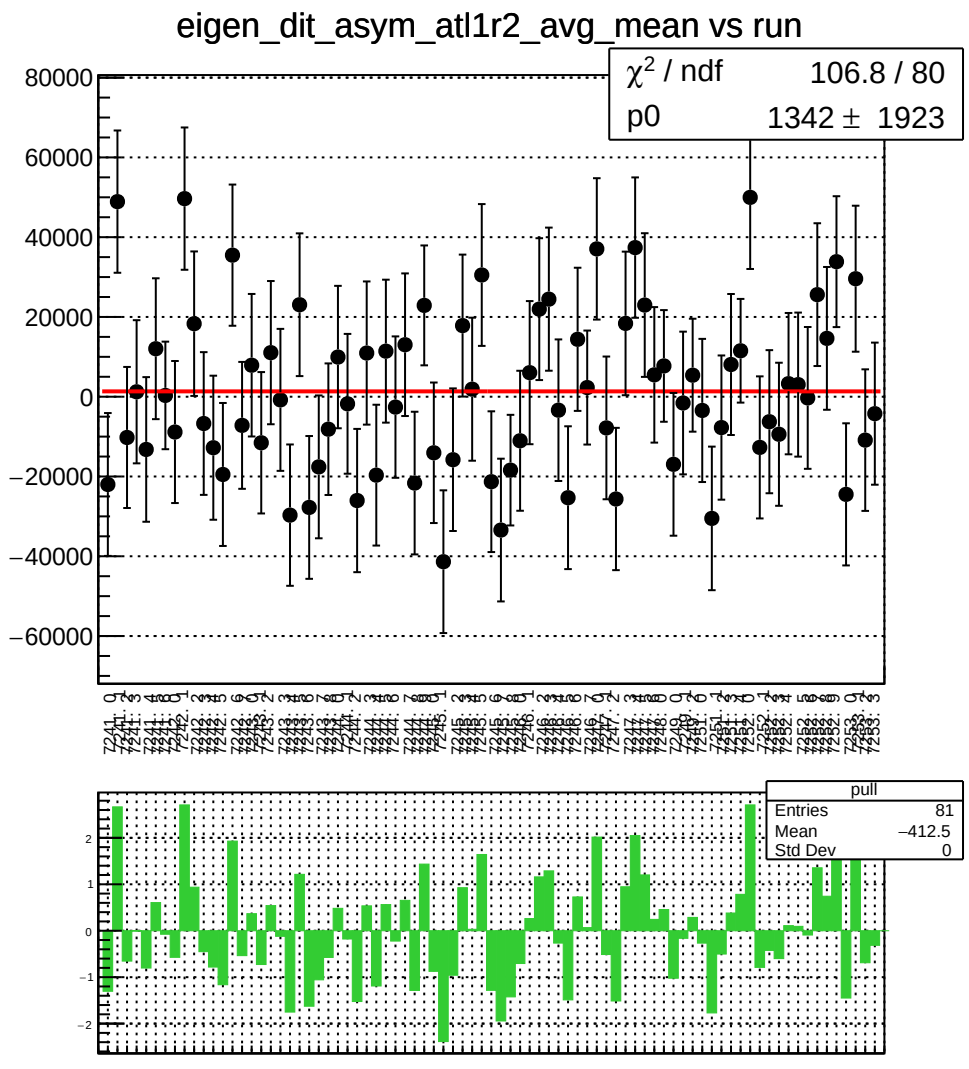

pull1D
Entries 81
Mean −0.004882
Std Dev 1.148

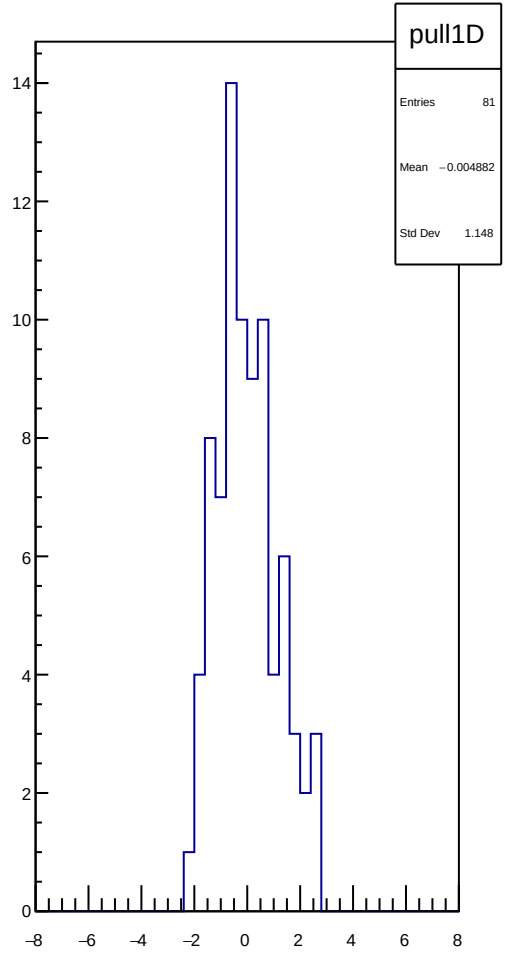

dit_asym_atl1r2_avg_rms vs run
χ² / ndf 97.85 / 80
p0 1693 ± 1.36
1740
1720
1700
1680
1660

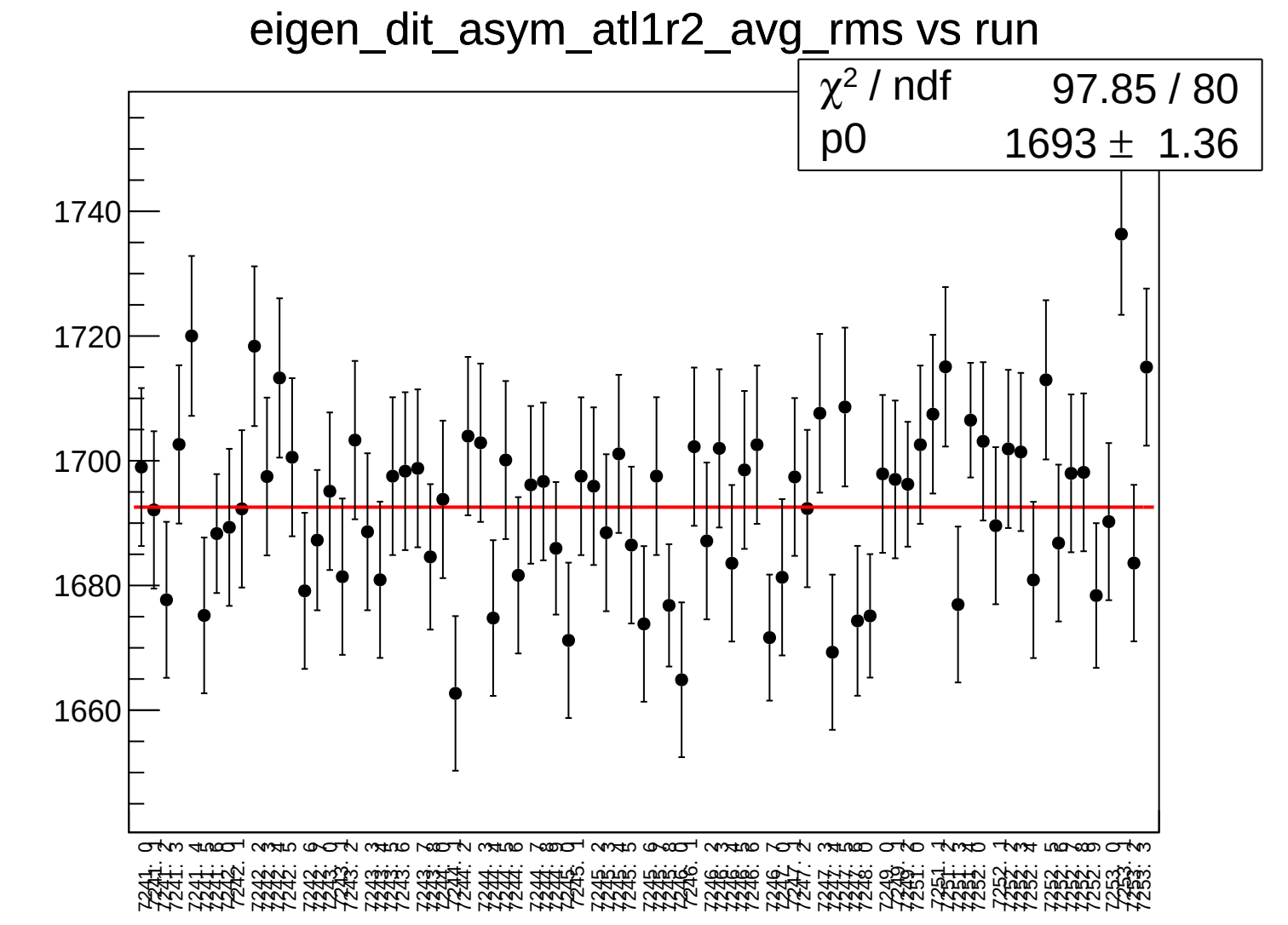

asym_atl1r2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 95.35 / 80
p0 334.2 ± 5210
150
100
50
0
−50
−100
−150
−200
pull
Entries 81
Mean −108.6
Std Dev 0
2
1
0
−1
−2

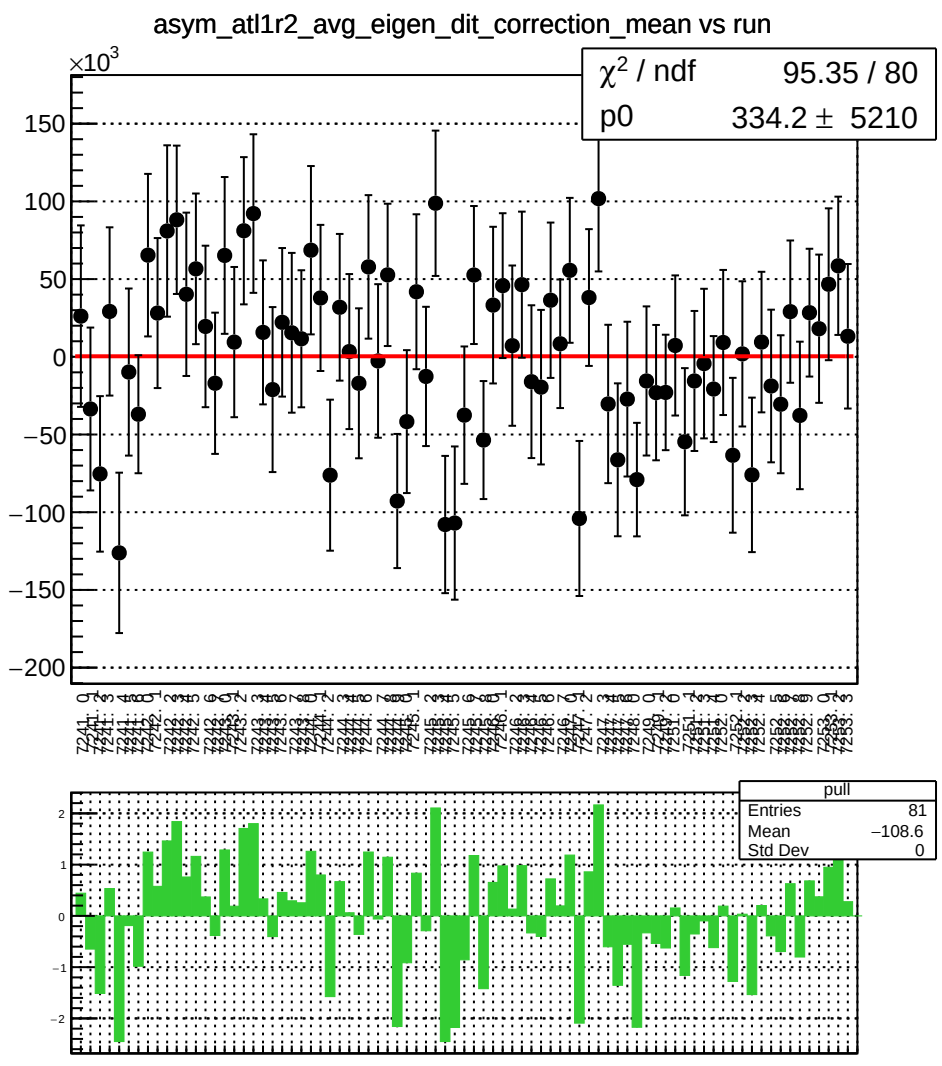

pull1D
Entries 81
Mean 0.0235
Std Dev 1.085
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

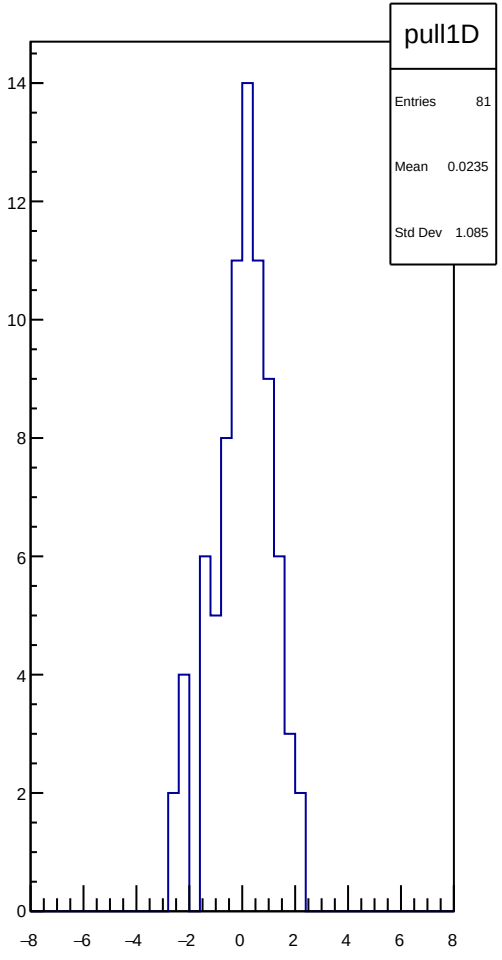

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 5071 / 80
p0 4578 ± 3.684
5600
5400
5200
5000
4800
4600
4400
4200
4000

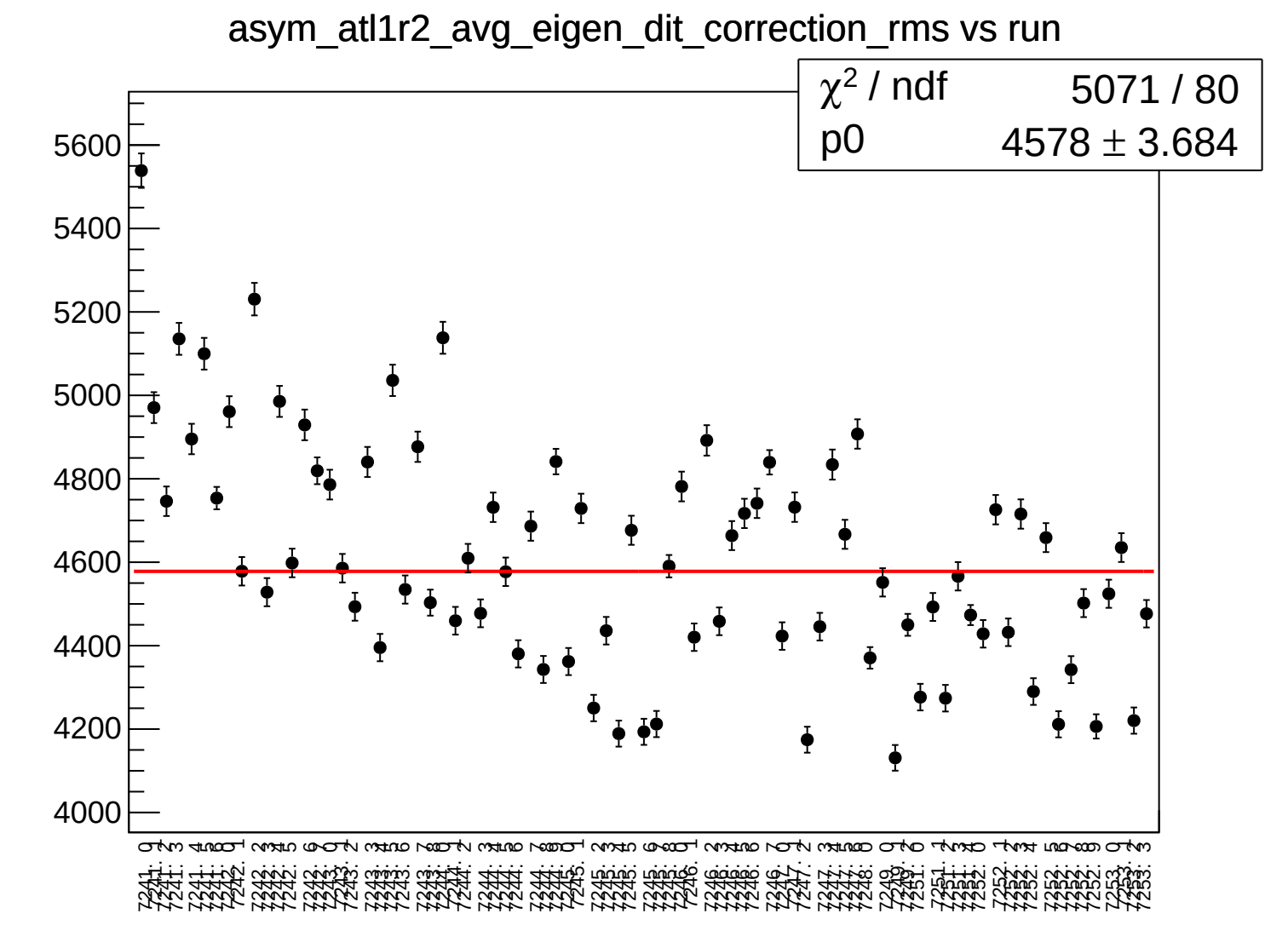

eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 106.8 / 80
p0 1342 ± 1923
pull
Entries 81
Mean −412.5
Std Dev 0

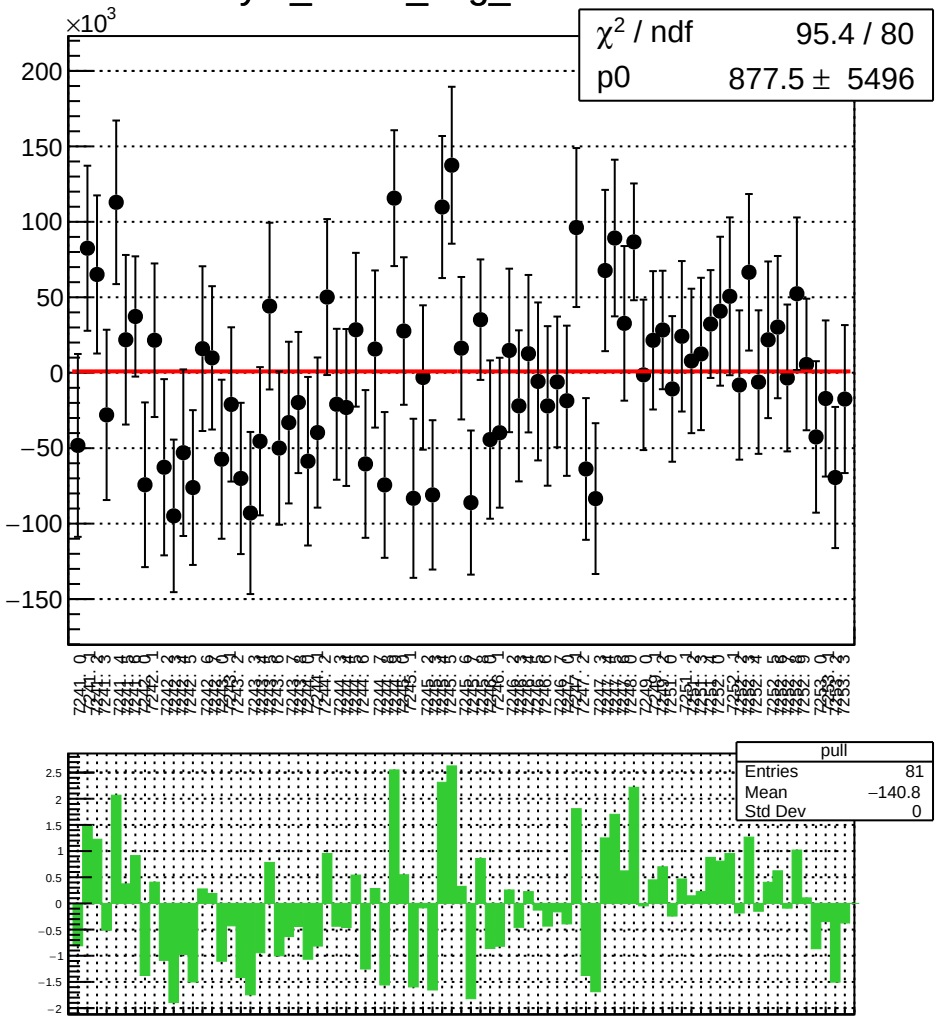

pull1D
Entries 81
Mean −0.004882
Std Dev 1.148

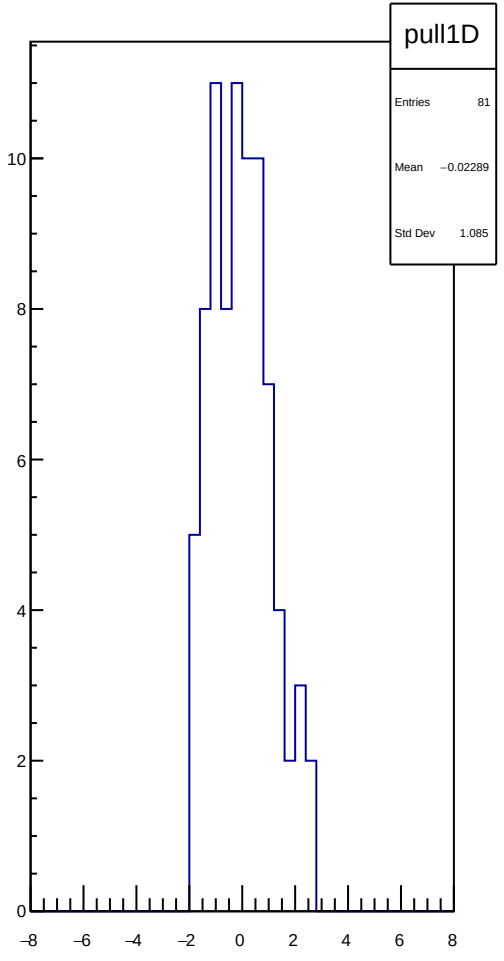

eigen_dit_asym_atl1r2_avg_rms vs run
χ² / ndf 97.85 / 80
p0 1693 ± 1.36
1740
1720
1700
1680
1660

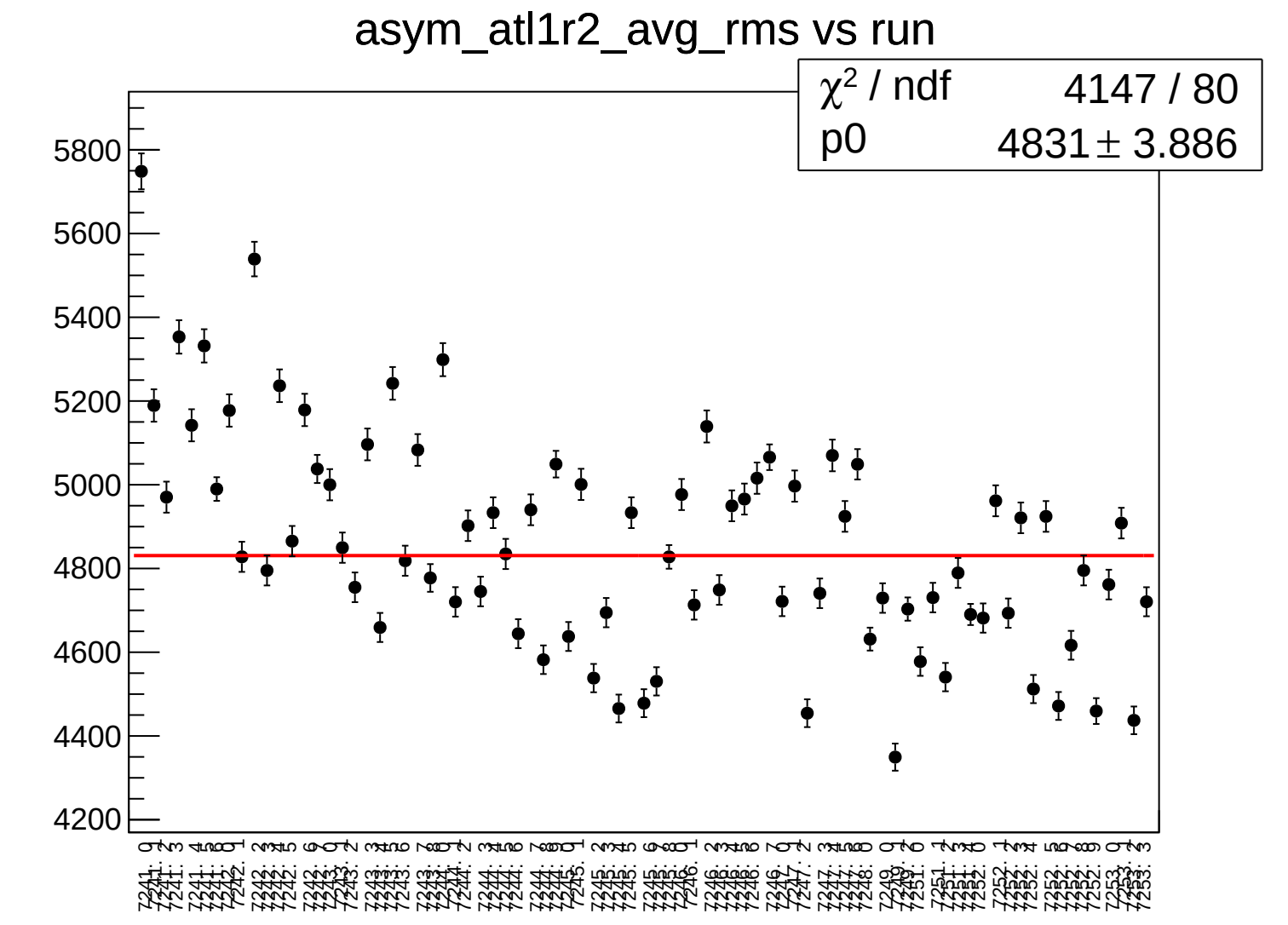

asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 95.35 / 80
p0 334.2 ± 5210
150
100
50
0
−50
−100
−150
−200
pull
Entries 81
Mean −108.6
Std Dev 0
2
1
0
−1
−2

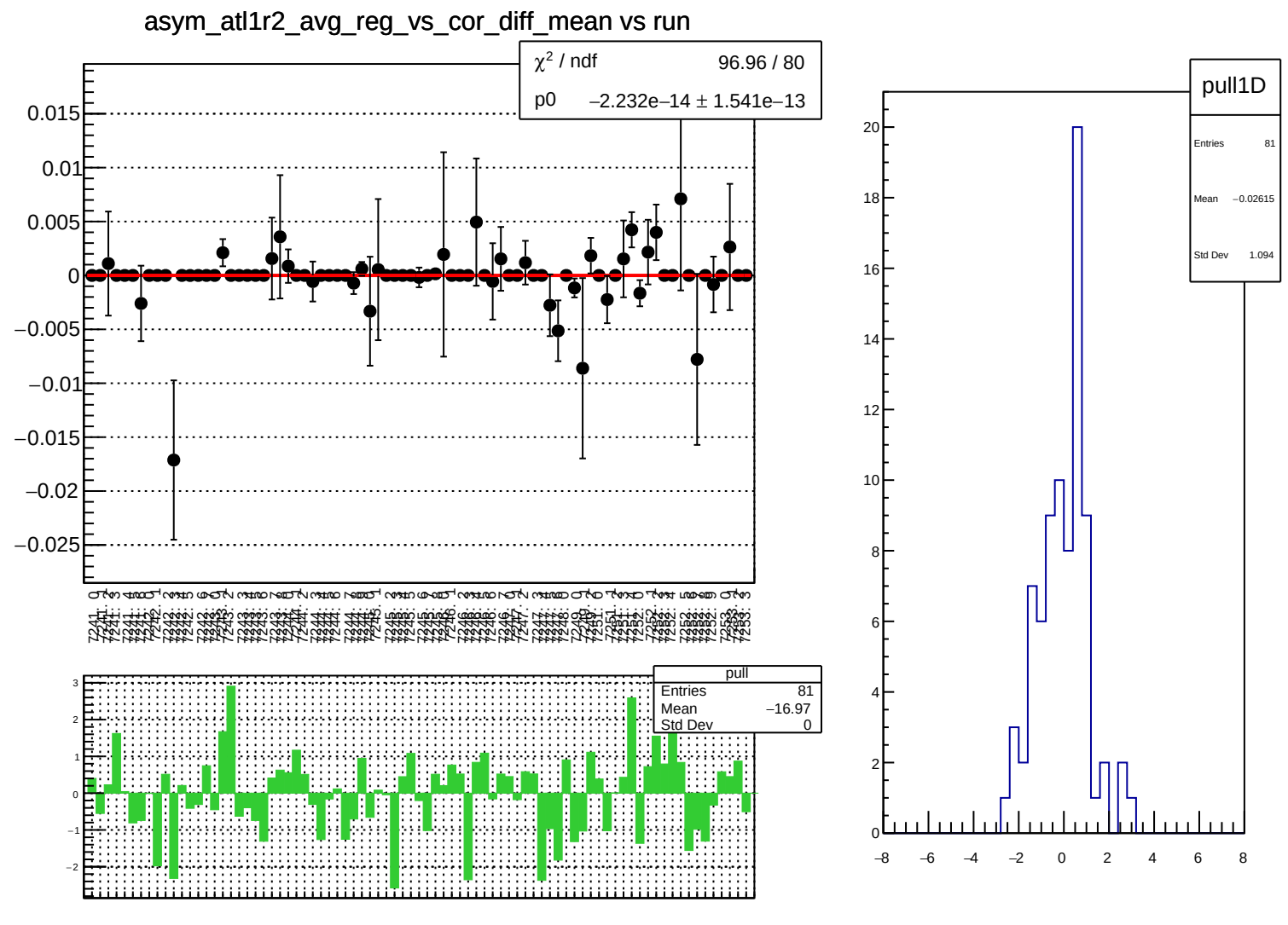

pull1D
Entries 81
Mean 0.0235
Std Dev 1.085
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

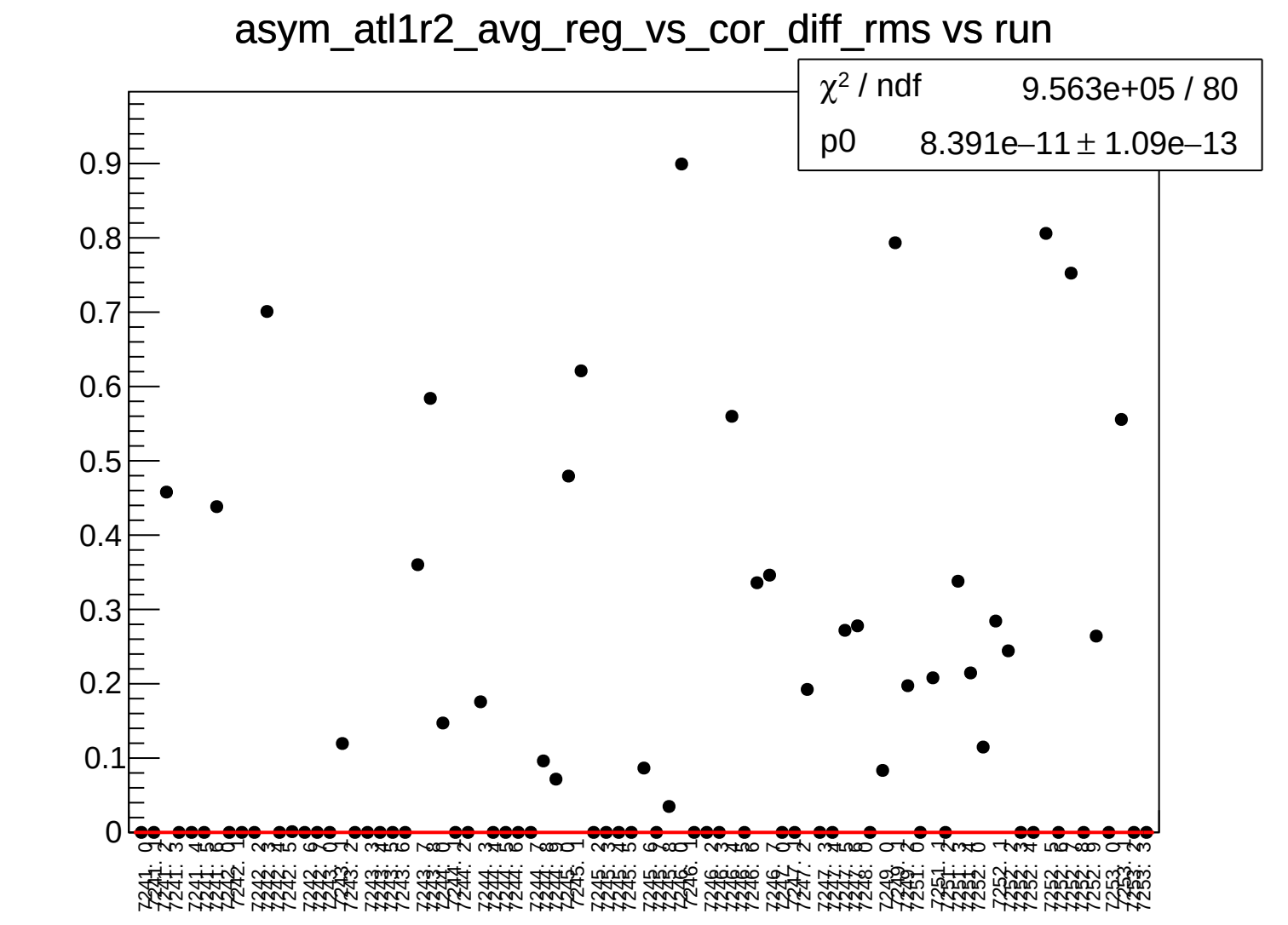

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 5071 / 80
p0 4578 ± 3.684
5600
5400
5200
5000
4800
4600
4400
4200
4000

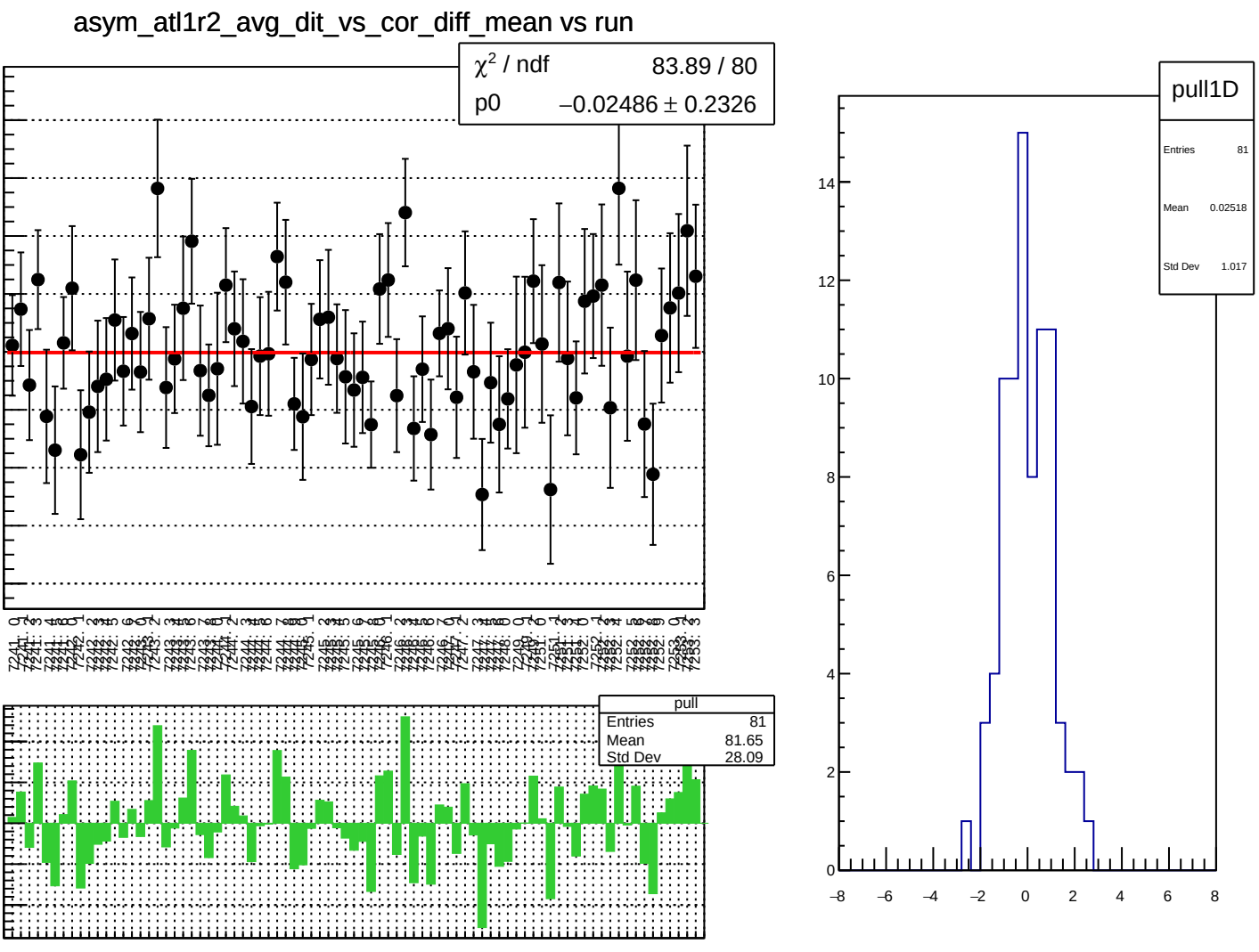

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 95.4 / 80
p0 877.5 ± 5496
pull
Entries 81
Mean −140.8
Std Dev 0

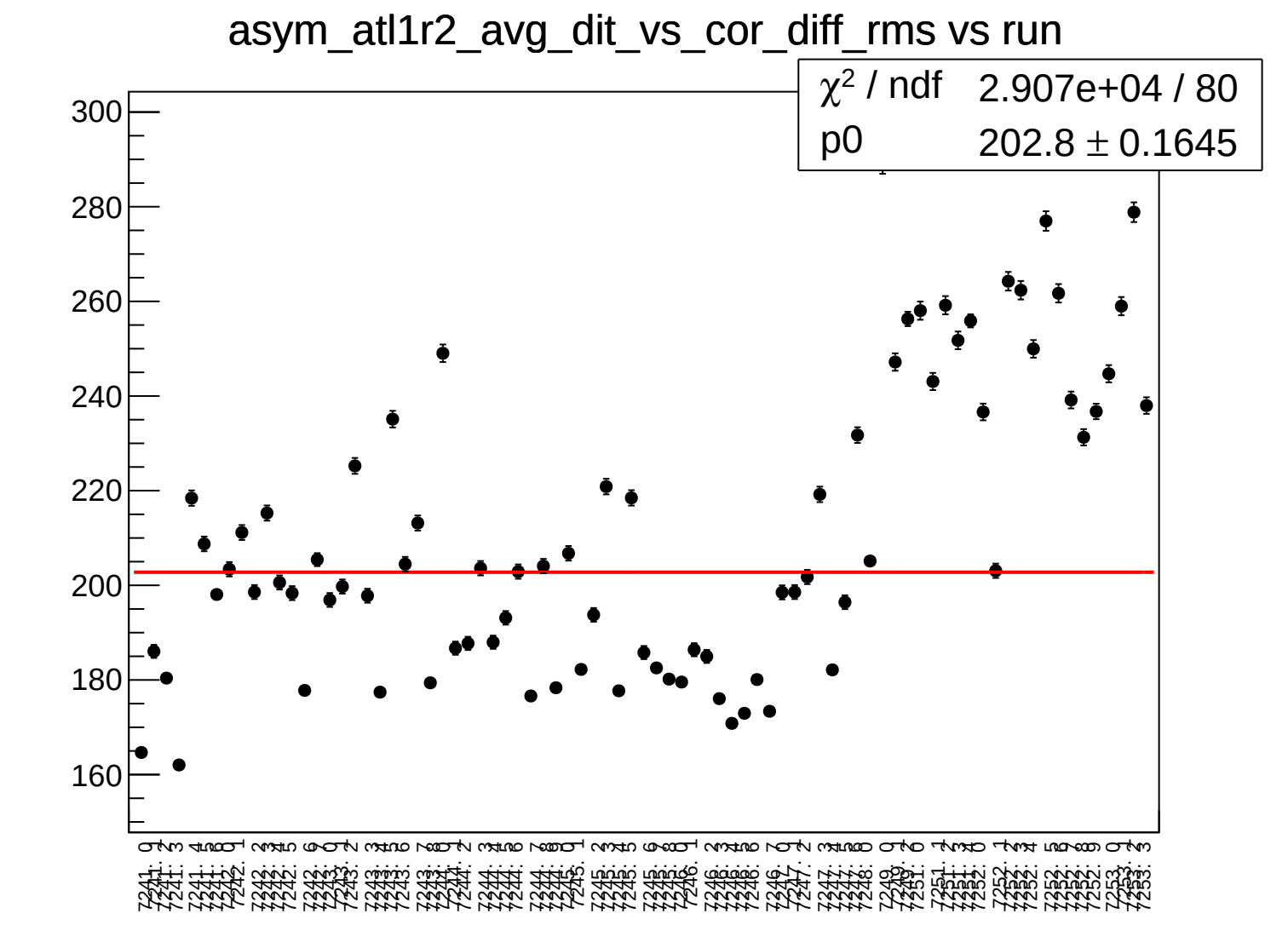

pull1D
Entries 81
Mean −0.02289
Std Dev 1.085

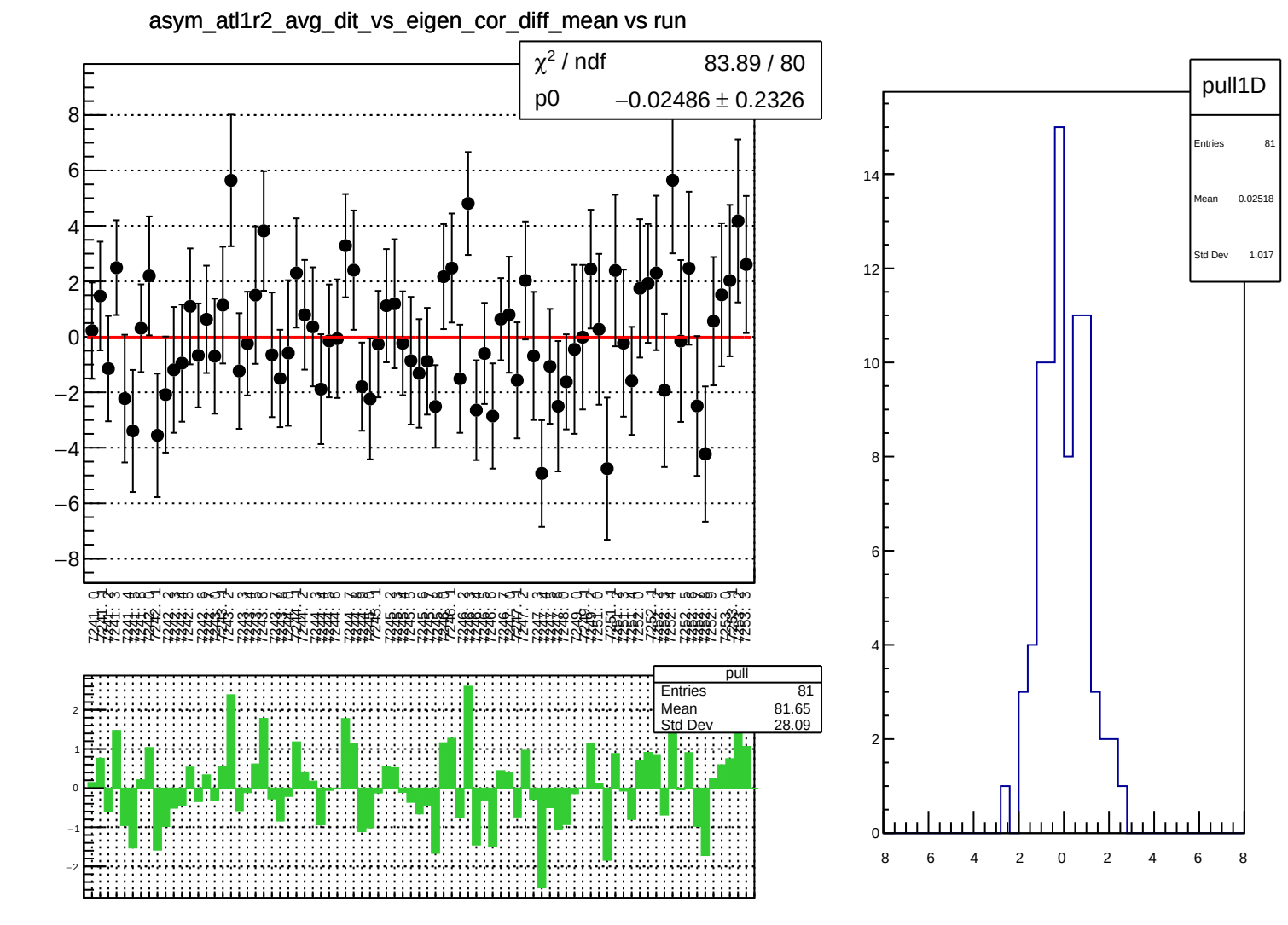

asym_atl1r2_avg_rms vs run
χ^2 / ndf 4147 / 80
p0 4831 ± 3.886
5800
5600
5400
5200
5000
4800
4600
4400
4200

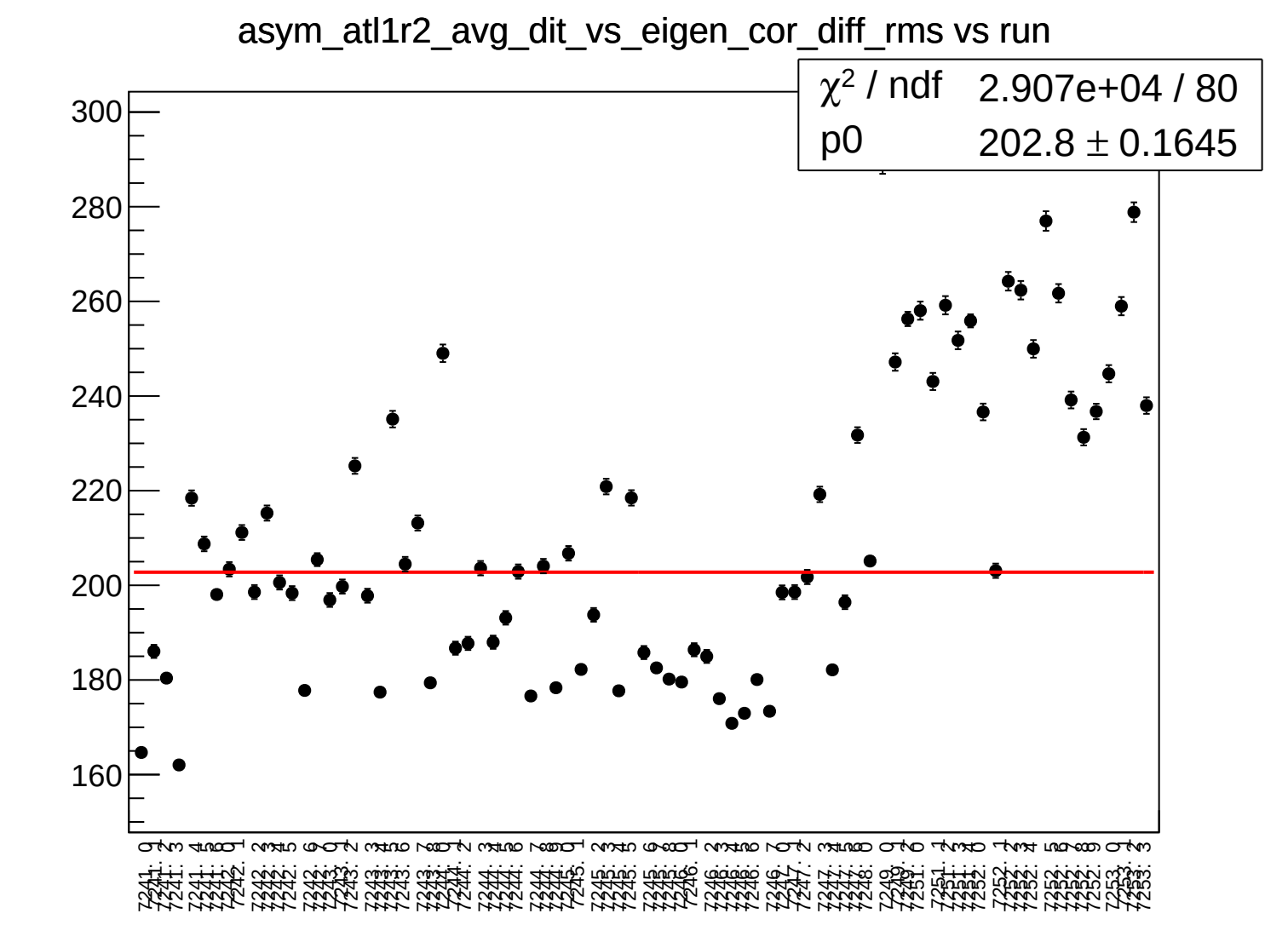

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 96.96 / 80
p0 −2.232e−14 ± 1.541e−13
pull
Entries 81
Mean −16.97
Std Dev 0
pull1D
Entries 81
Mean −0.02615
Std Dev 1.094

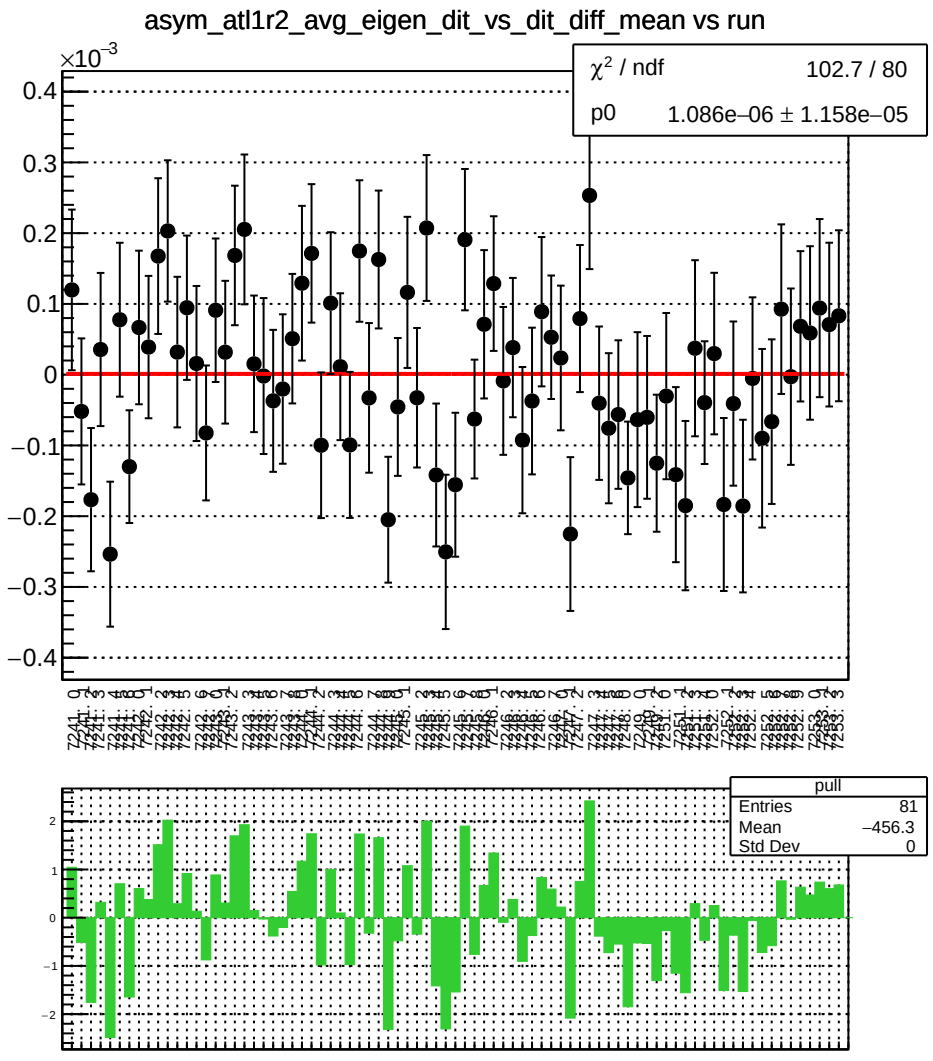

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.563e+05 / 80
p0 8.391e−11 ± 1.09e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

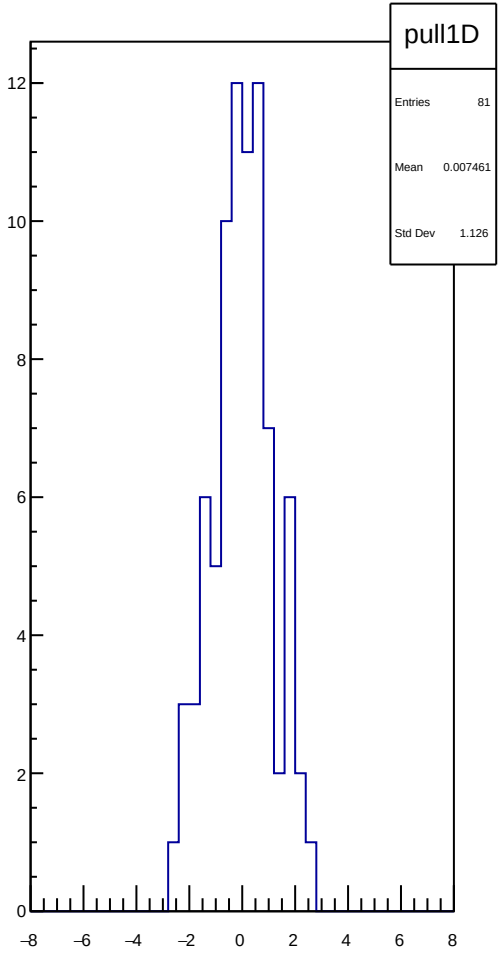

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 83.89 / 80
p0 −0.02486 ± 0.2326
pull
Entries 81
Mean 81.65
Std Dev 28.09
pull1D
Entries 81
Mean 0.02518
Std Dev 1.017

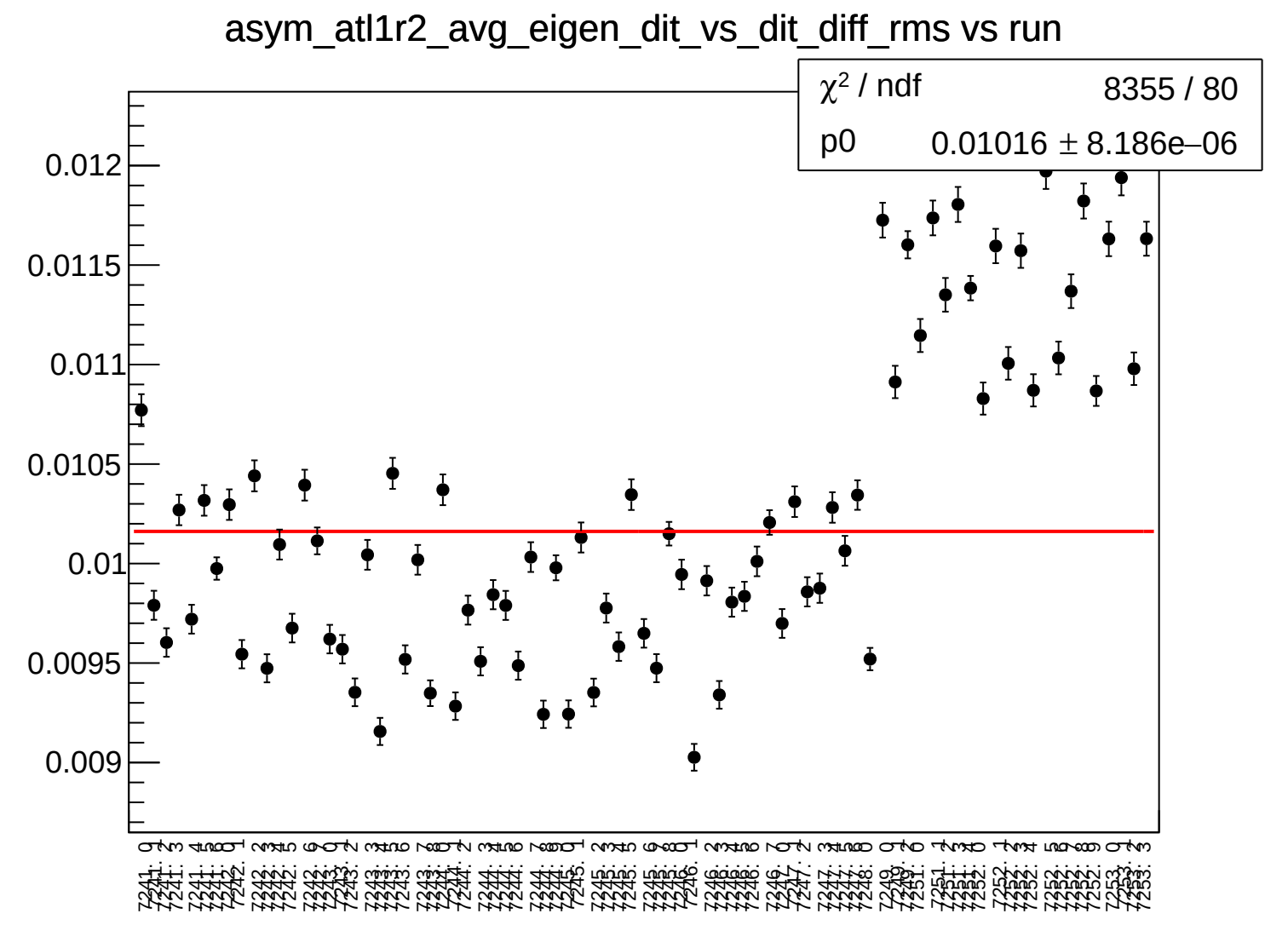

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.907e+04 / 80
p0 202.8 ± 0.1645
300
280
260
240
220
200
180
160

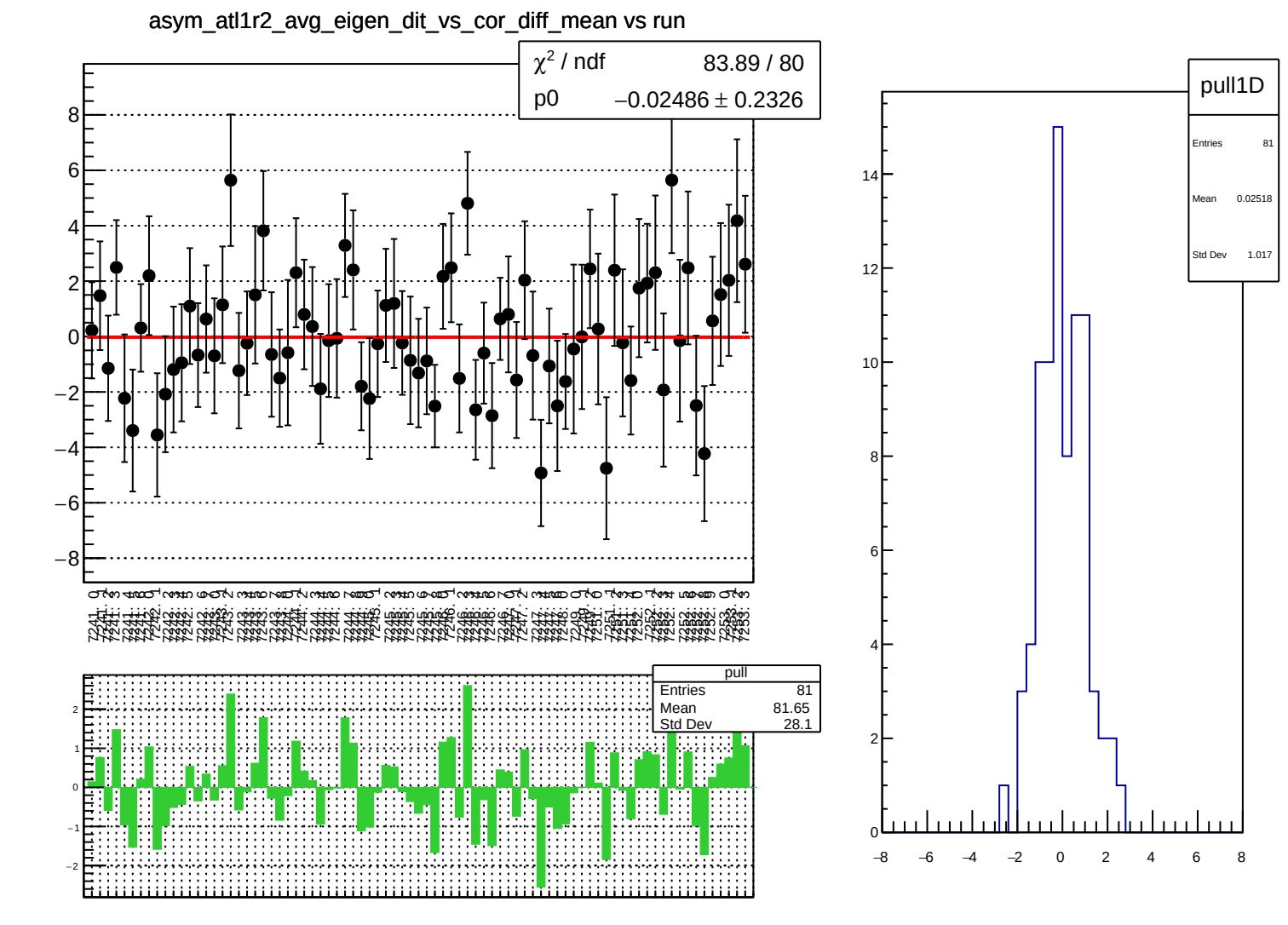

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.89 / 80
p0 −0.02486 ± 0.2326
pull
Entries 81
Mean 81.65
Std Dev 28.09
pull1D
Entries 81
Mean 0.02518
Std Dev 1.017

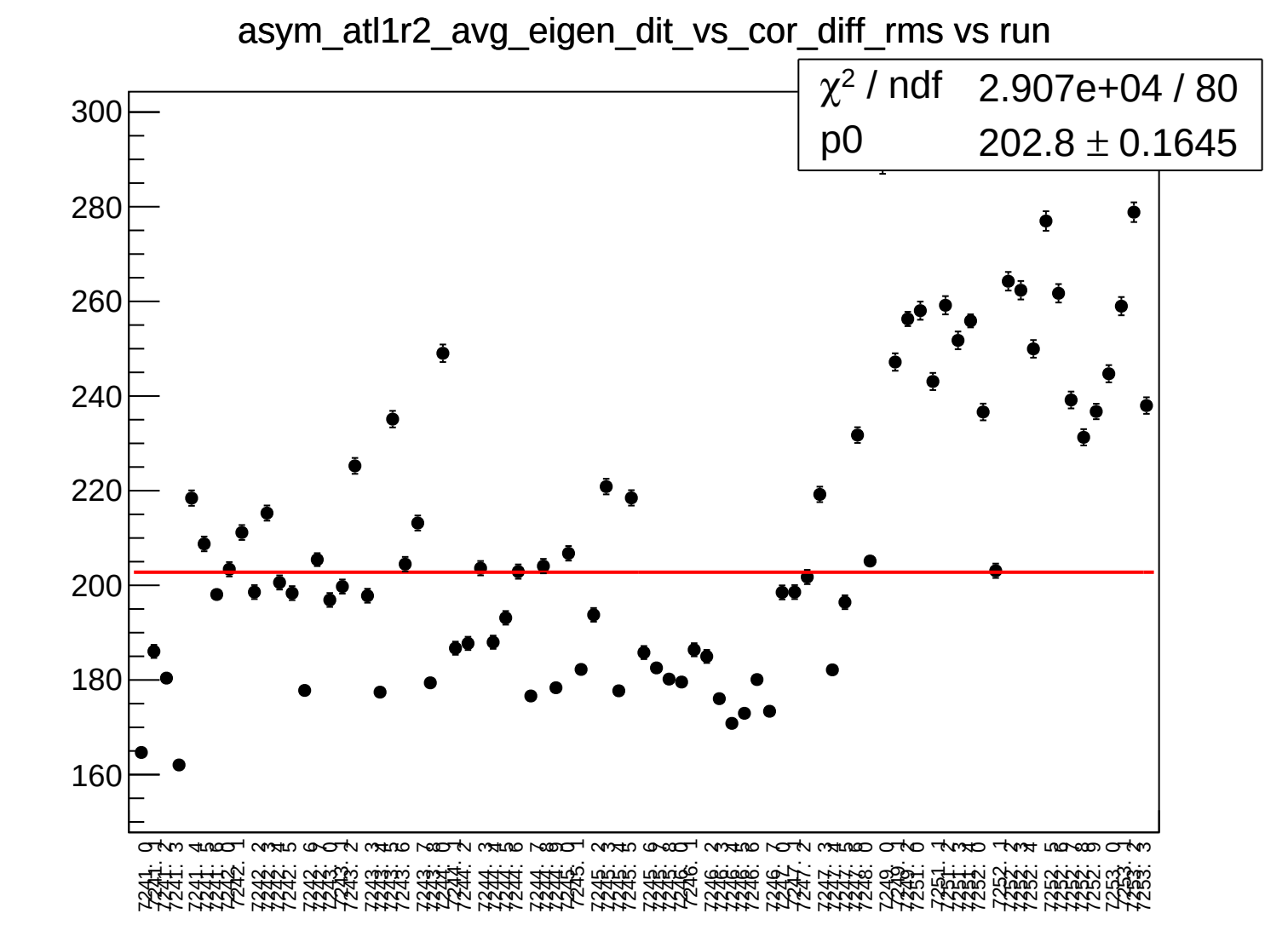

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.907e+04 / 80
p0 202.8 ± 0.1645
300
280
260
240
220
200
180
160

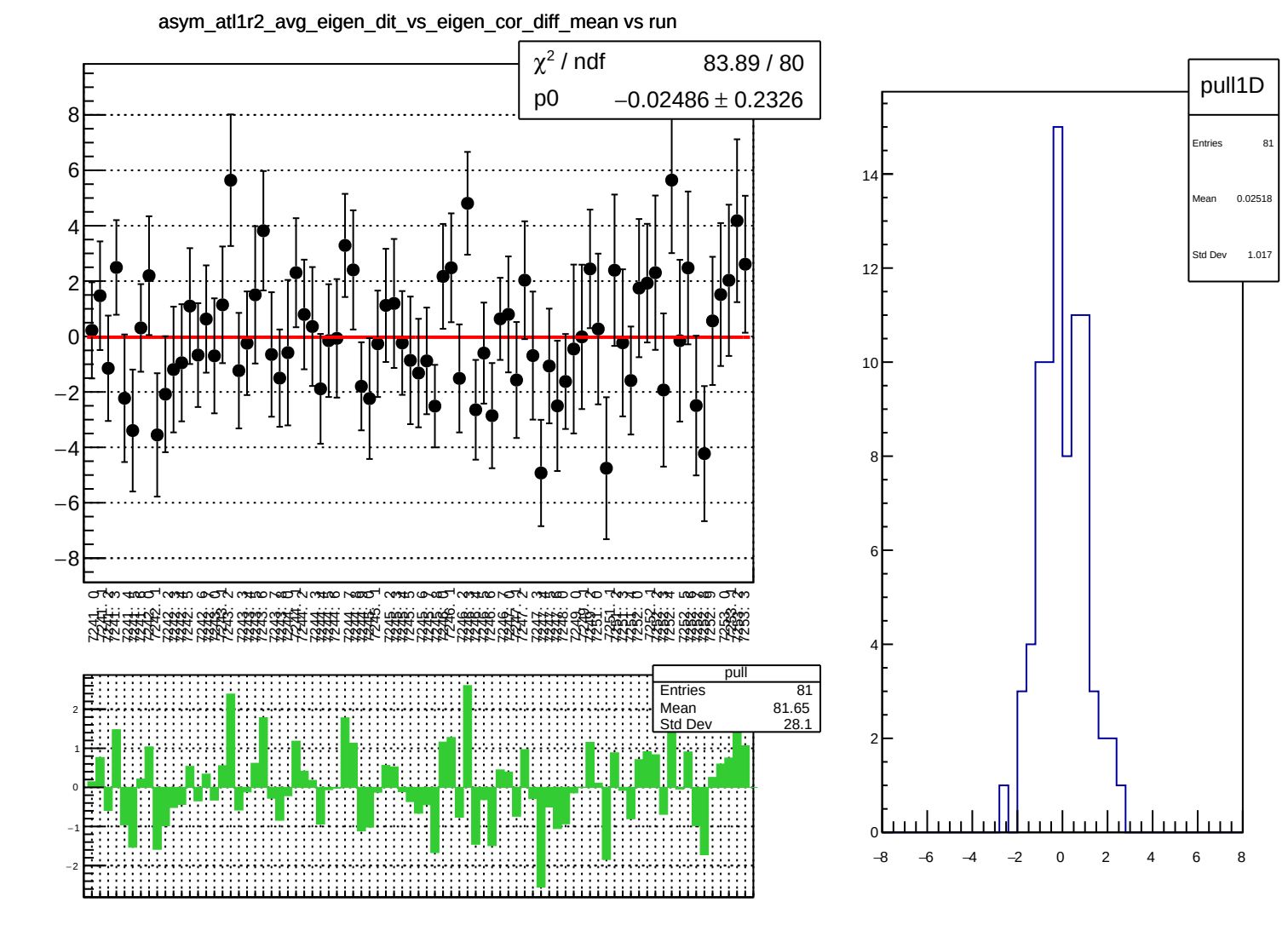

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 102.7 / 80
p0 1.086e−06 ± 1.158e−05
pull
Entries 81
Mean −456.3
Std Dev 0

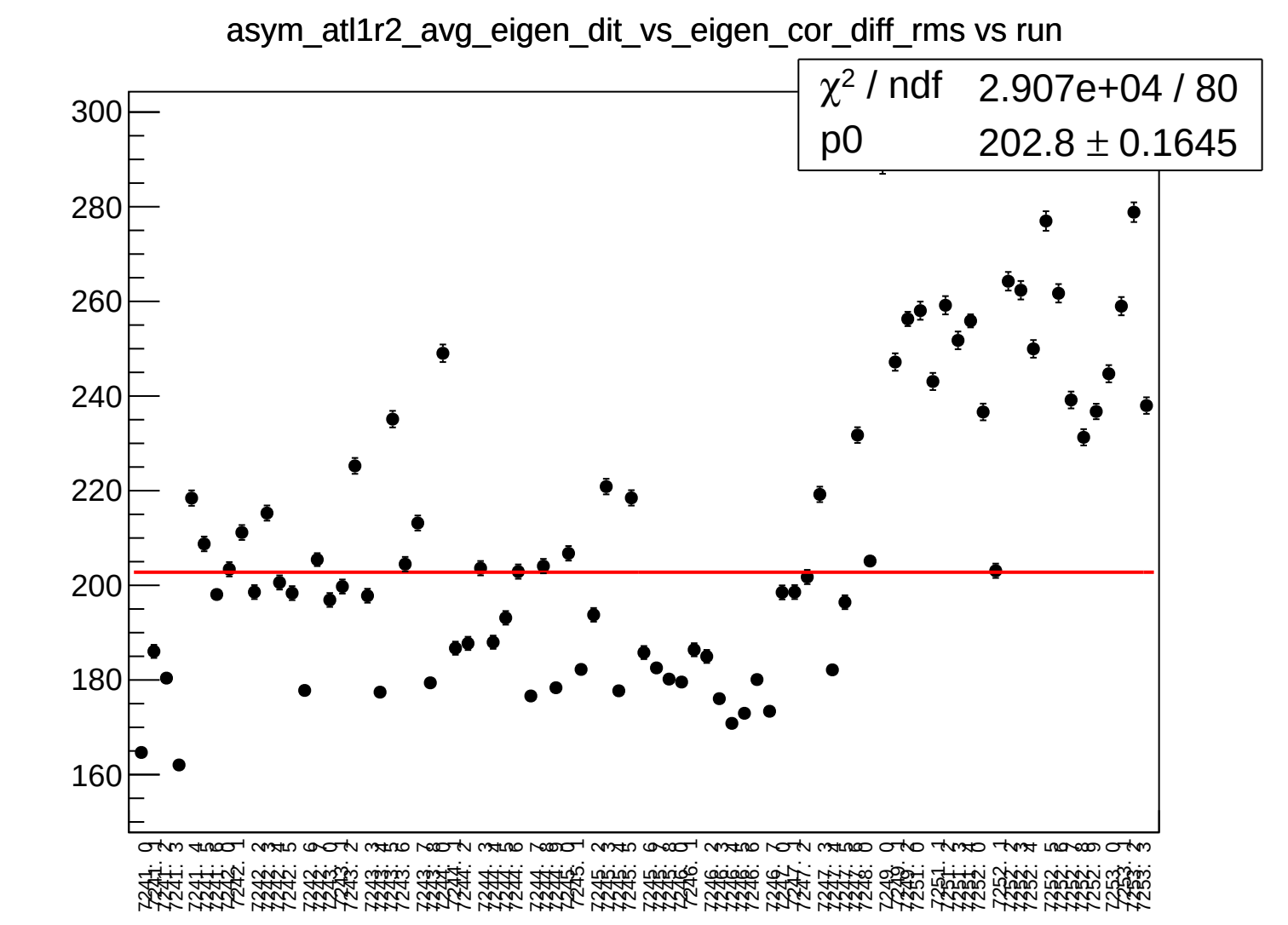

pull1D
Entries 81
Mean 0.007461
Std Dev 1.126

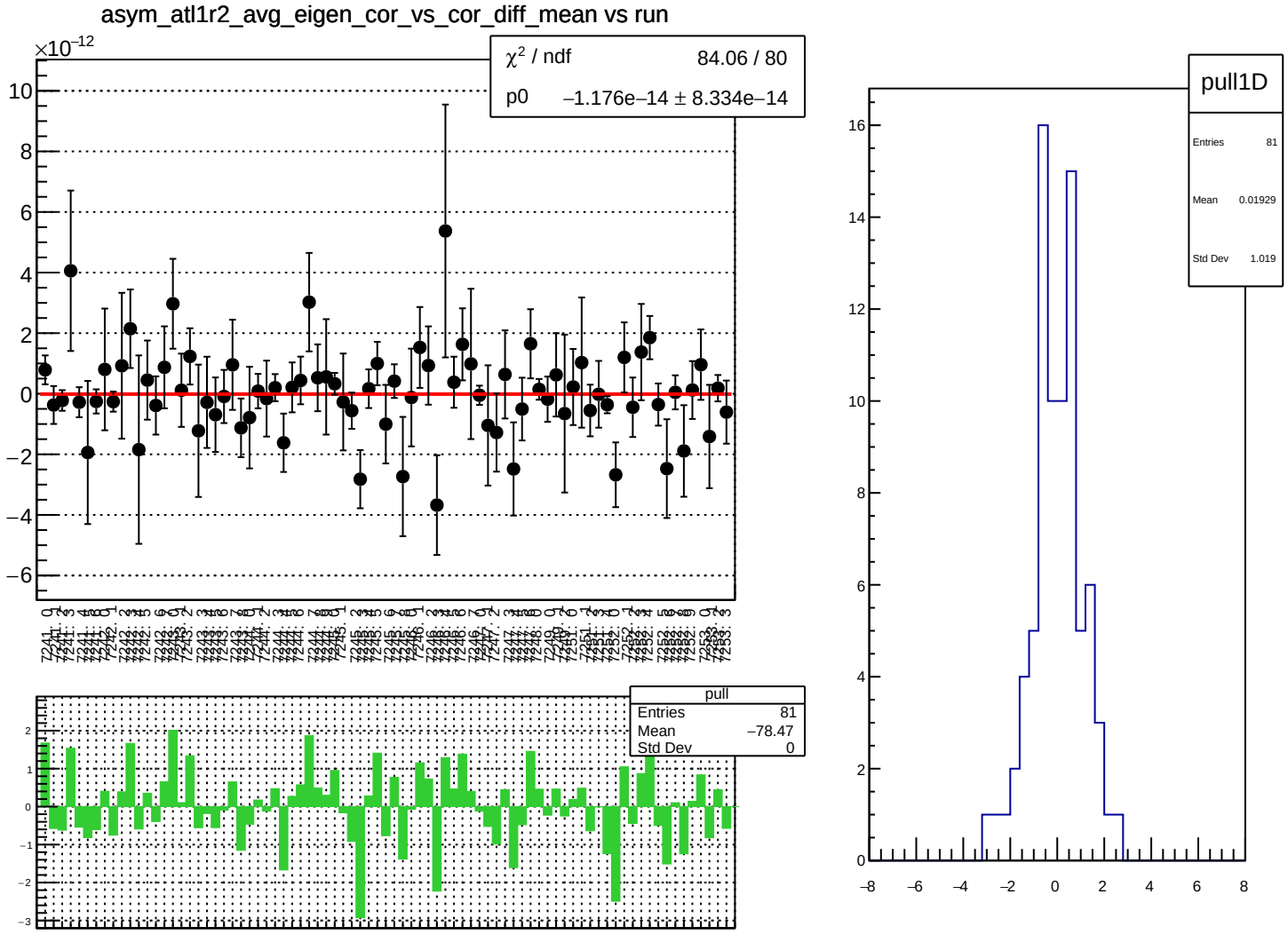

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8355 / 80
p0 0.01016 ± 8.186e–06
0.012
0.0115
0.011
0.0105
0.01
0.0095
0.009

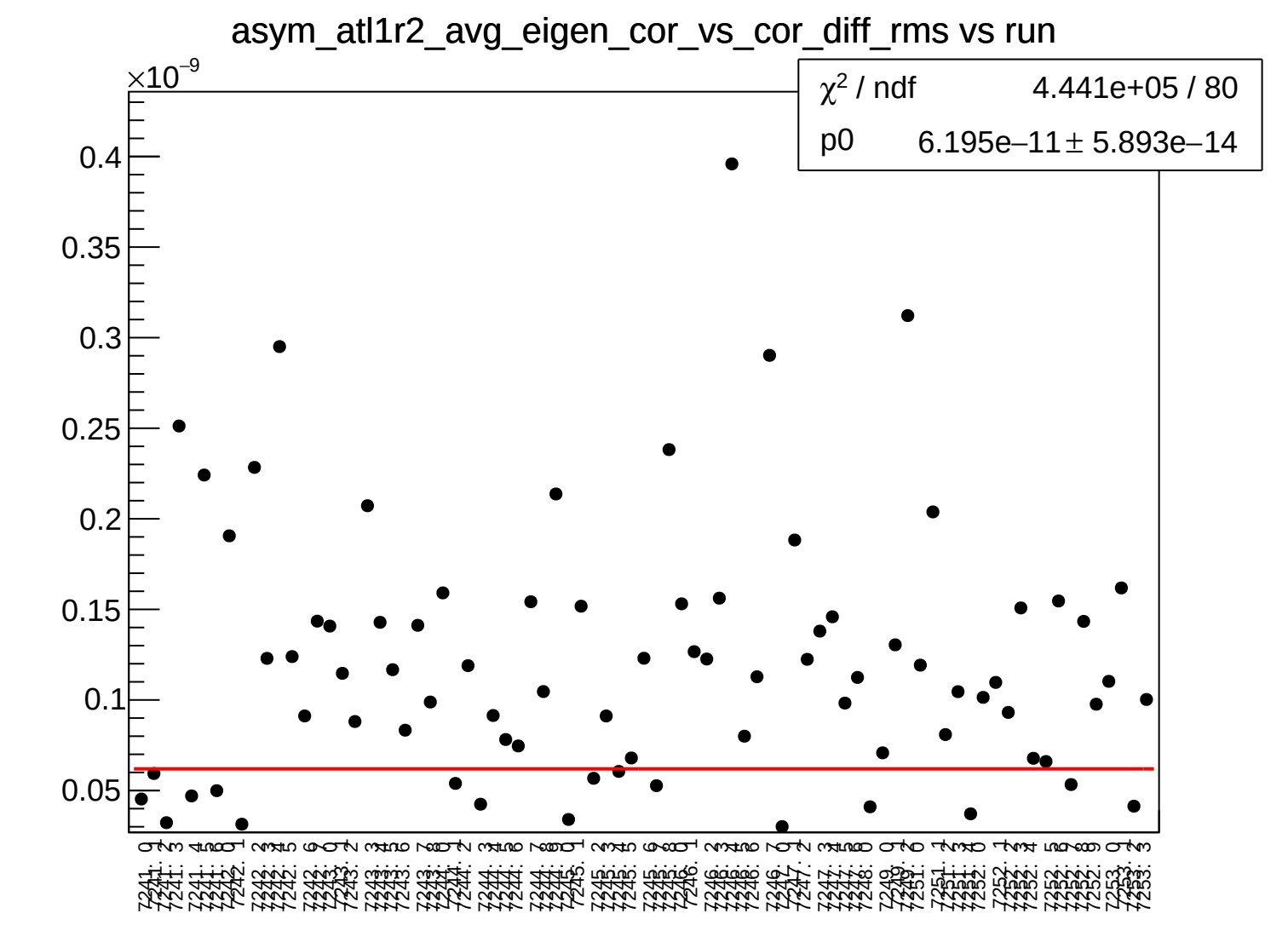

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.89 / 80
p0 −0.02486 ± 0.2326
pull
Entries 81
Mean 81.65
Std Dev 28.1
pull1D
Entries 81
Mean 0.02518
Std Dev 1.017

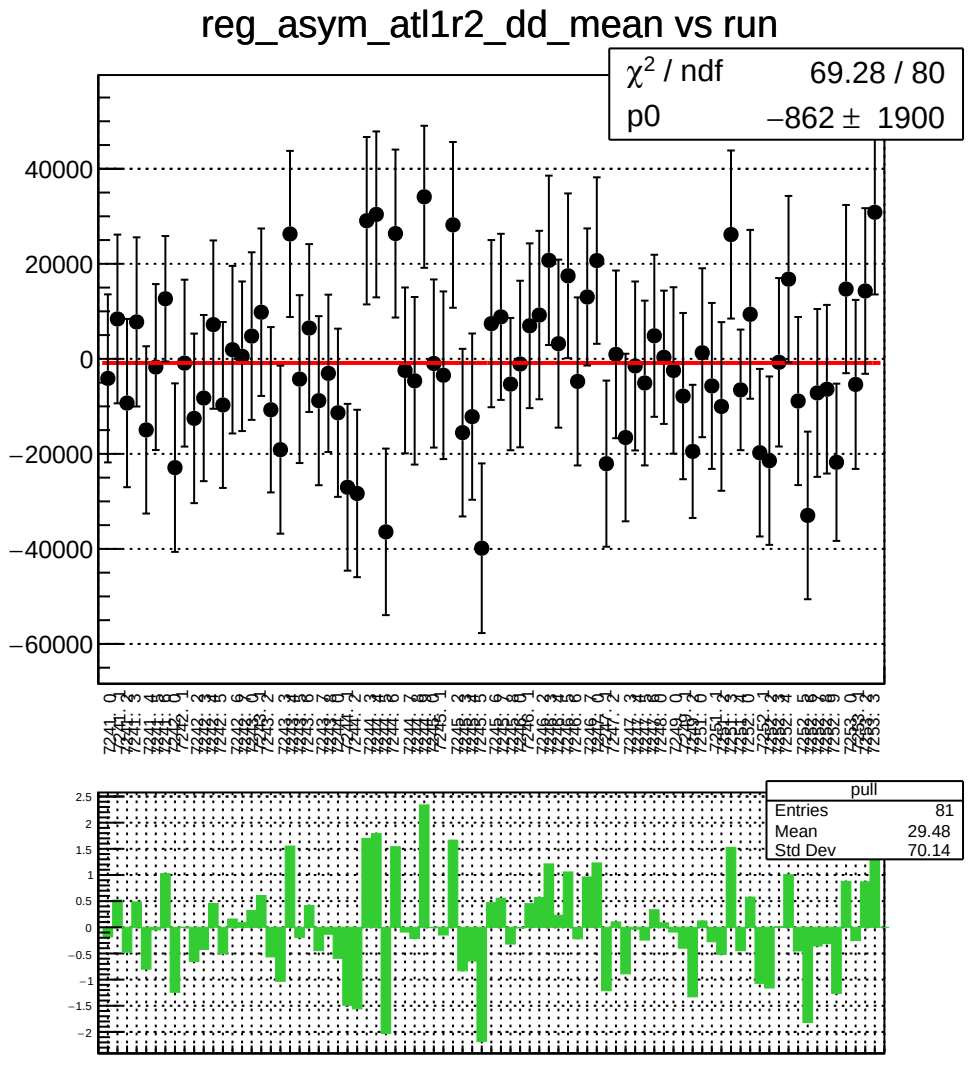

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.907e+04 / 80
p0 202.8 ± 0.1645
300
280
260
240
220
200
180
160

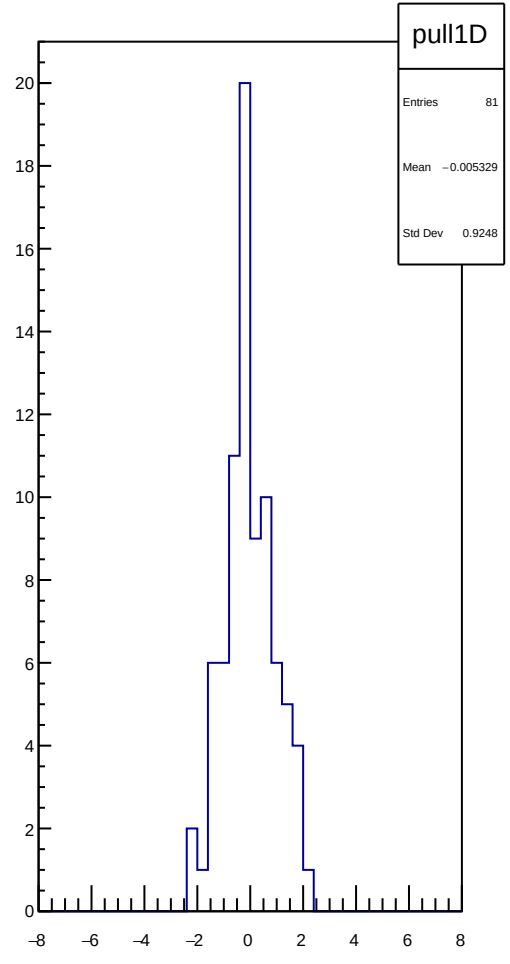

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.89 / 80
p0 −0.02486 ± 0.2326
pull
Entries 81
Mean 81.65
Std Dev 28.1
pull1D
Entries 81
Mean 0.02518
Std Dev 1.017

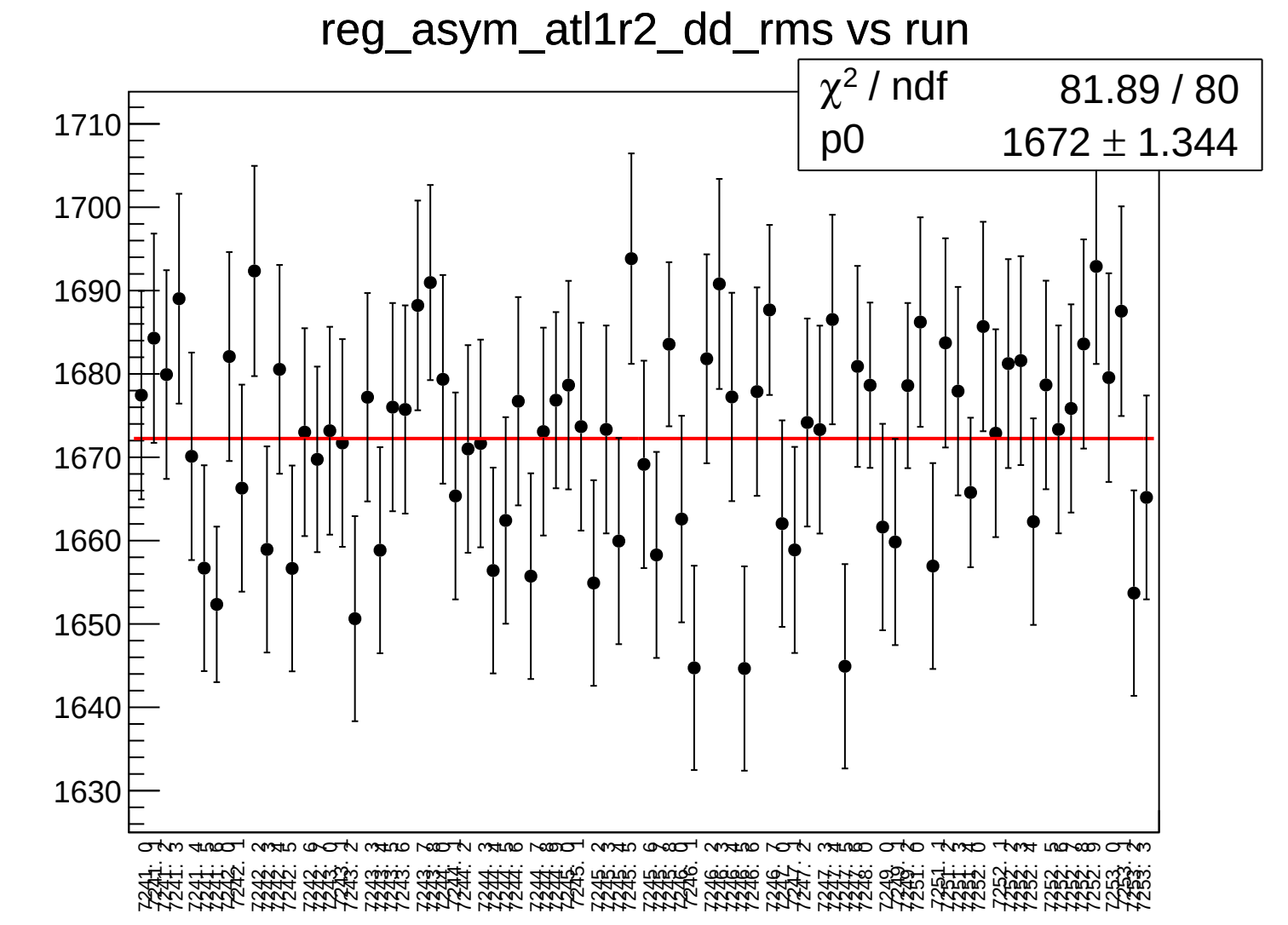

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.907e+04 / 80
p0 202.8 ± 0.1645
300
280
260
240
220
200
180
160

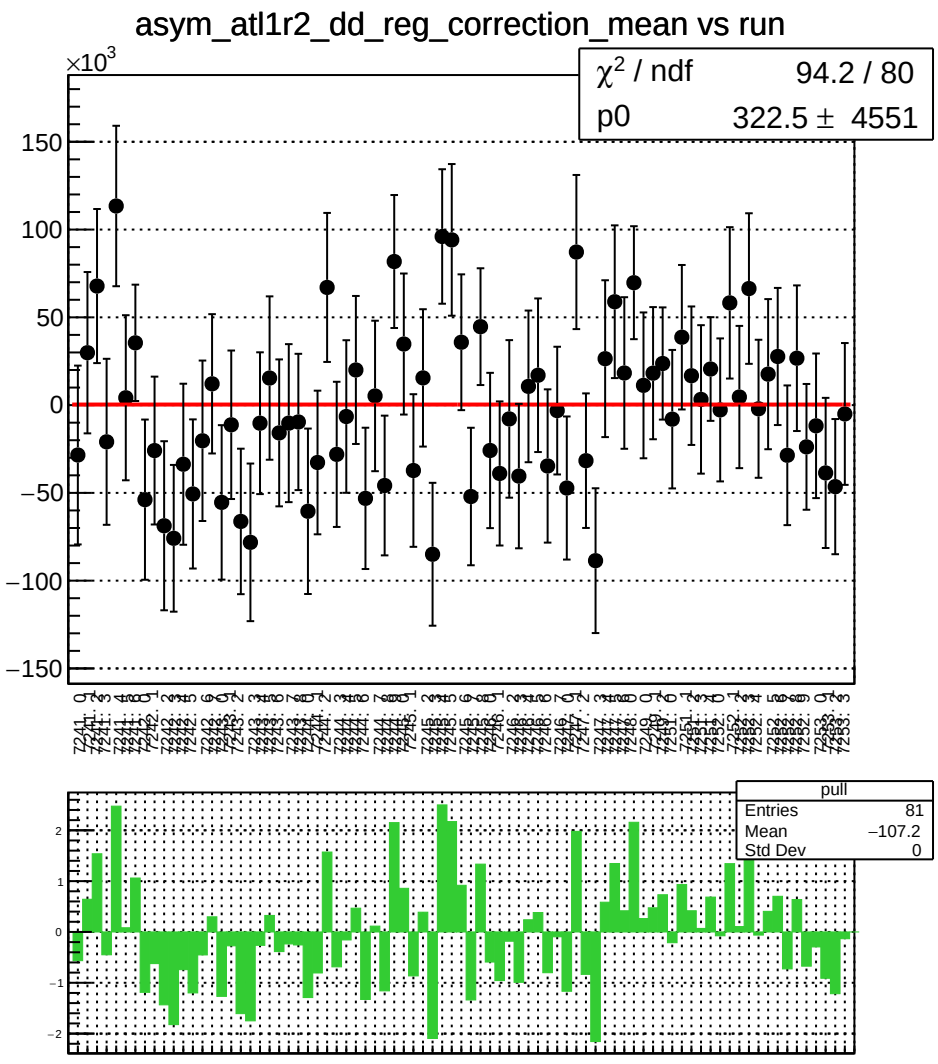

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.06 / 80
p0 −1.176e−14 ± 8.334e−14
pull
Entries 81
Mean −78.47
Std Dev 0
pull1D
Entries 81
Mean 0.01929
Std Dev 1.019

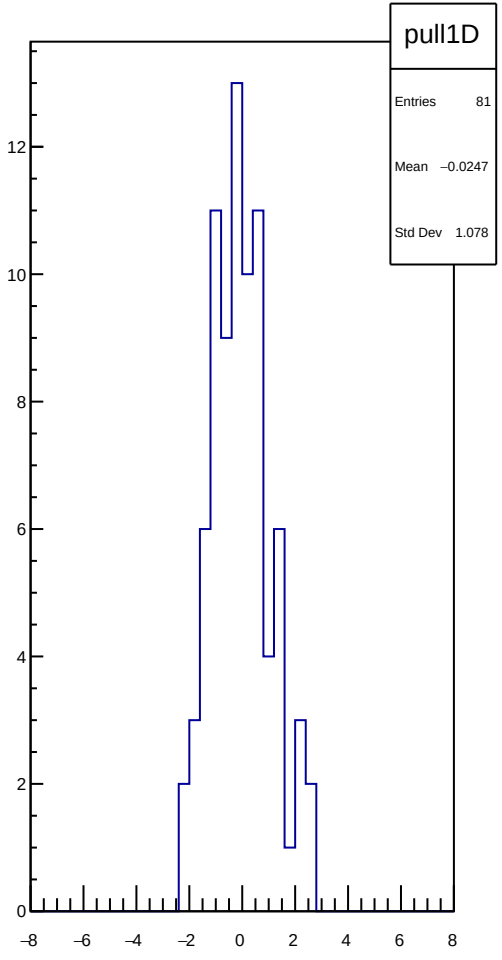

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.441e+05 / 80
p0 6.195e−11 ± 5.893e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

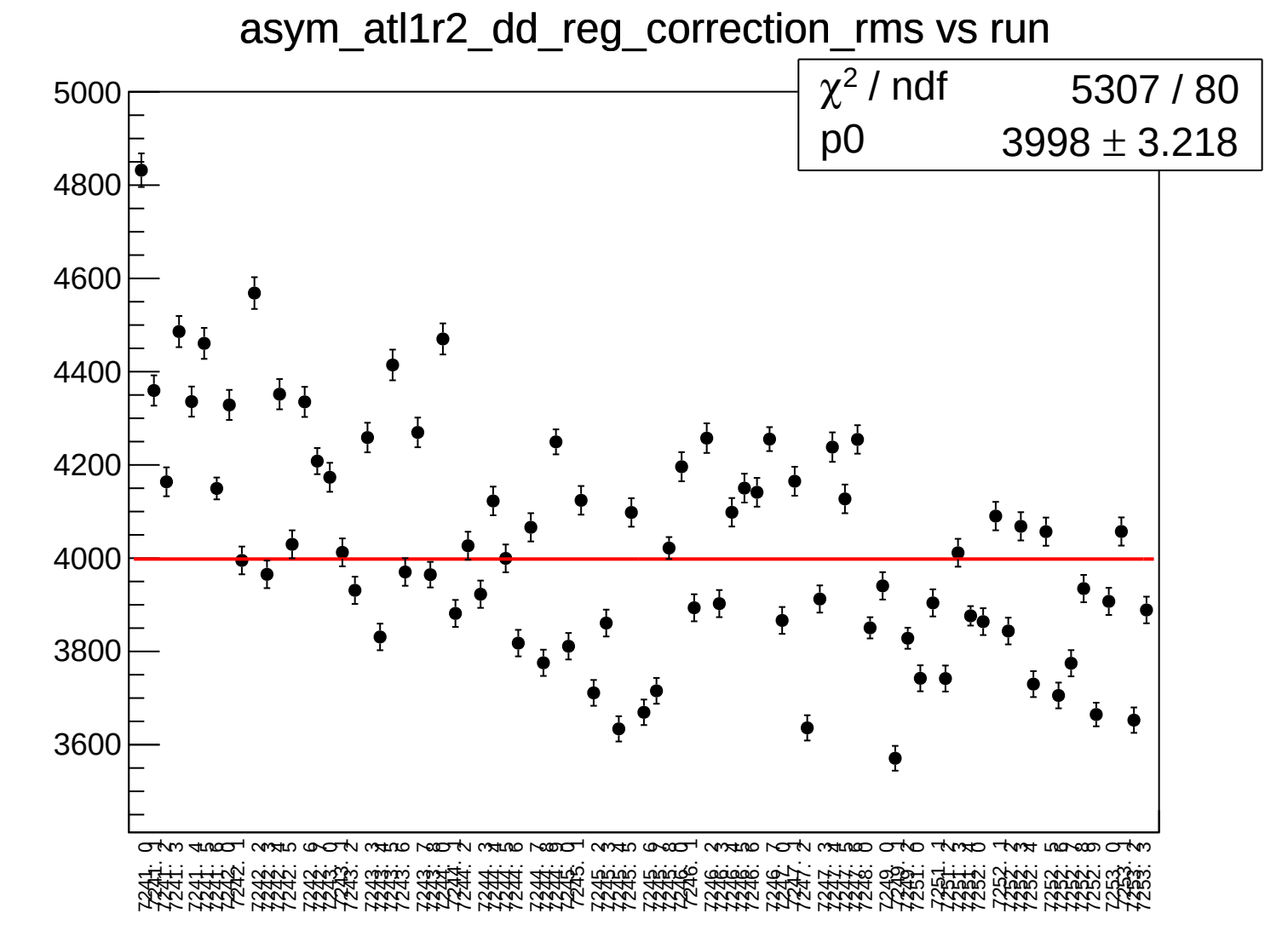

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 69.28 / 80
p0 −862 ± 1900
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean 29.48
Std Dev 70.14
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

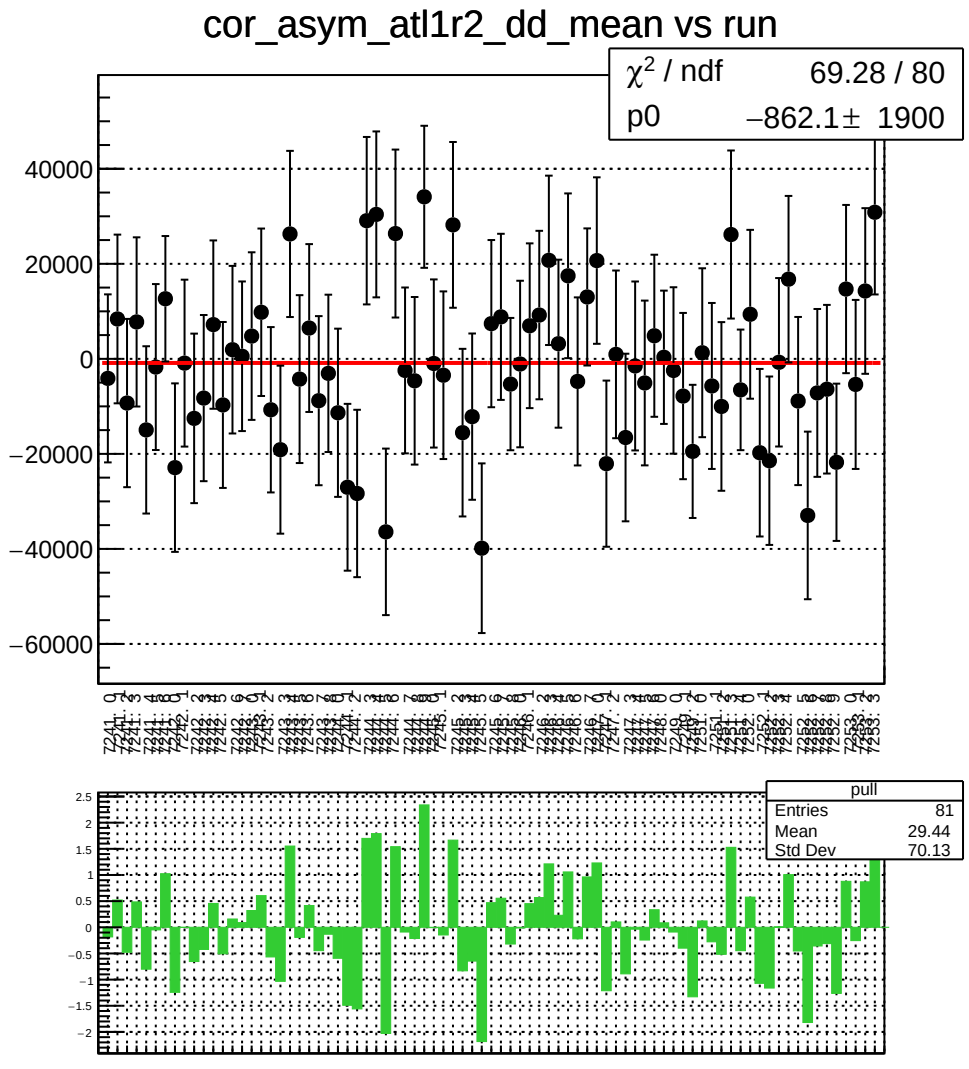

pull1D
Entries 81
Mean −0.005329
Std Dev 0.9248
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

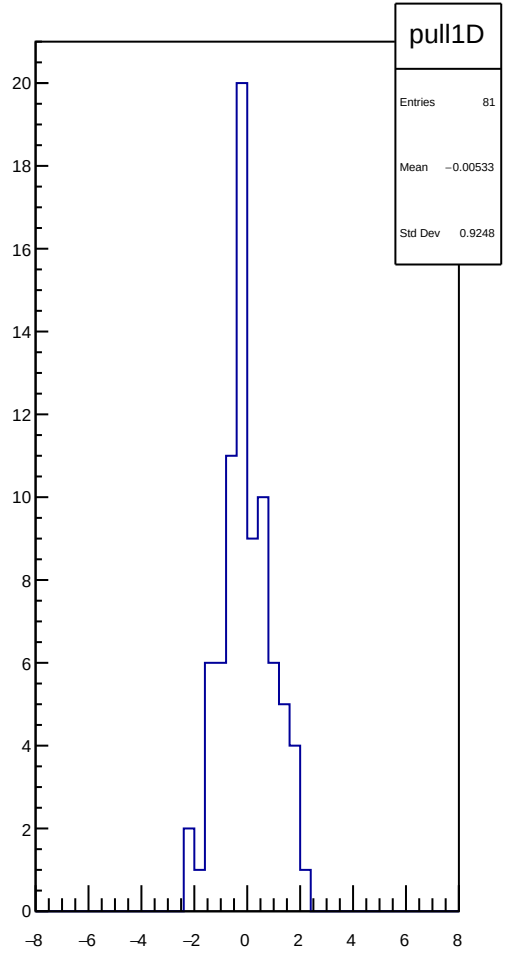

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 81.89 / 80
p0 1672 ± 1.344
1710
1700
1690
1680
1670
1660
1650
1640
1630

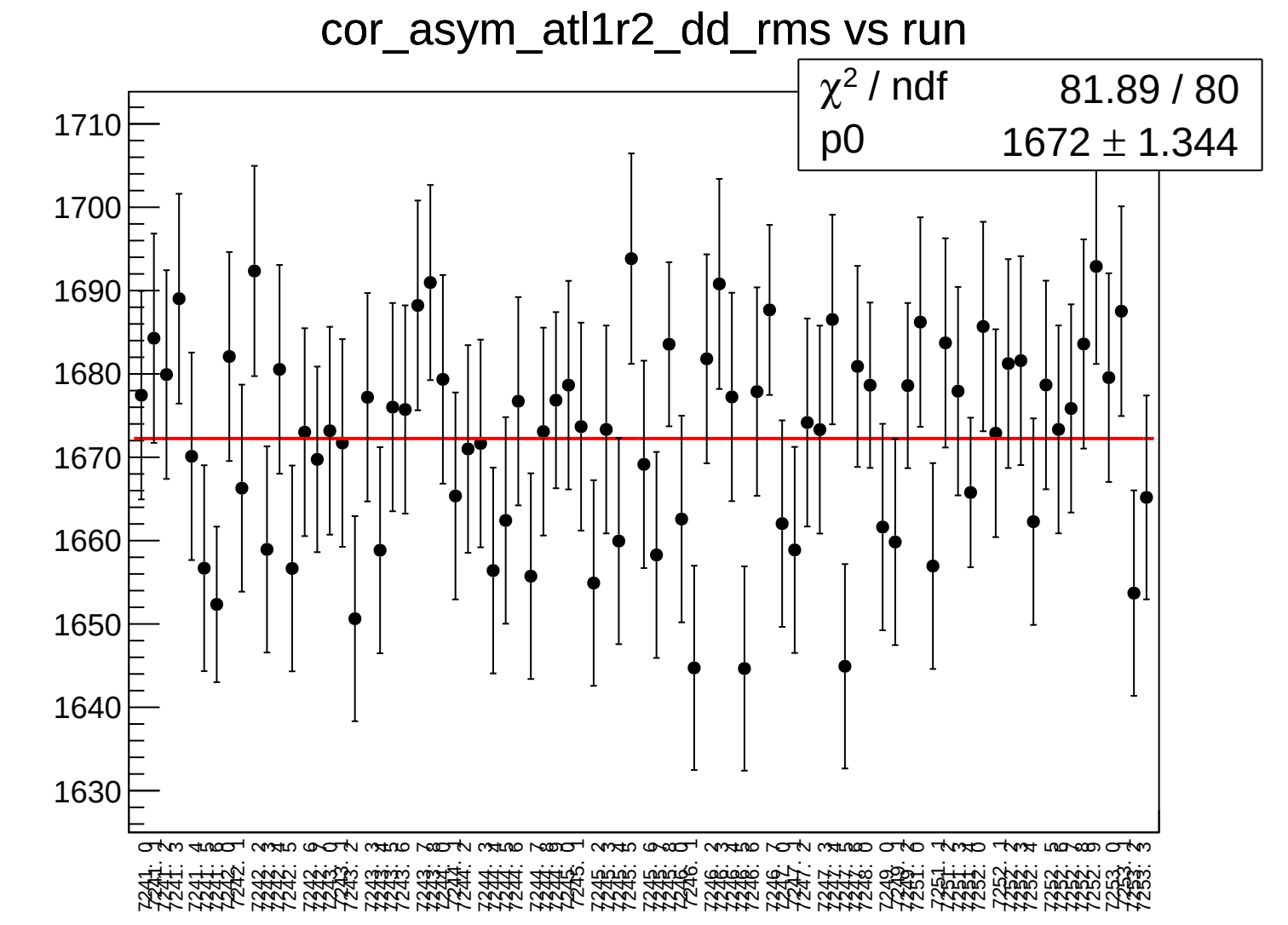

asym_atl1r2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 94.2 / 80
p0 322.5 ± 4551
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean −107.2
Std Dev 0
2
1
0
−1
−2

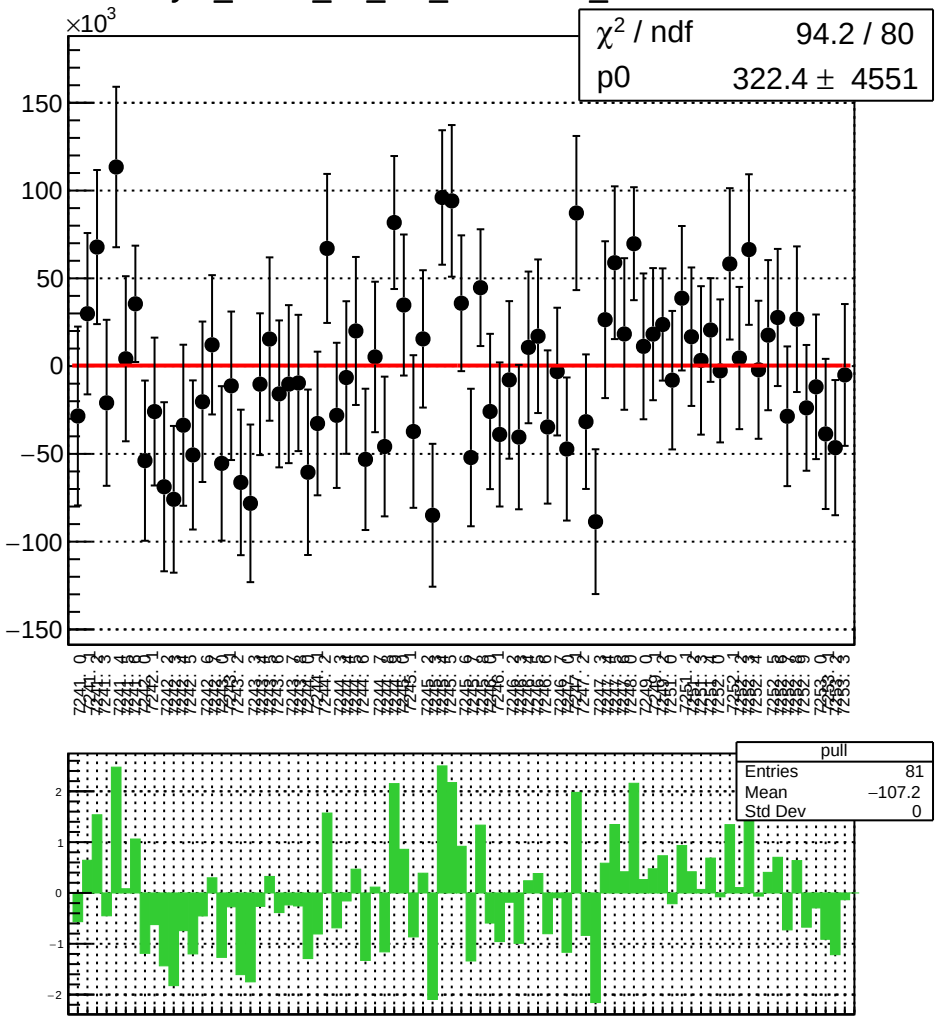

pull1D
Entries 81
Mean −0.0247
Std Dev 1.078
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

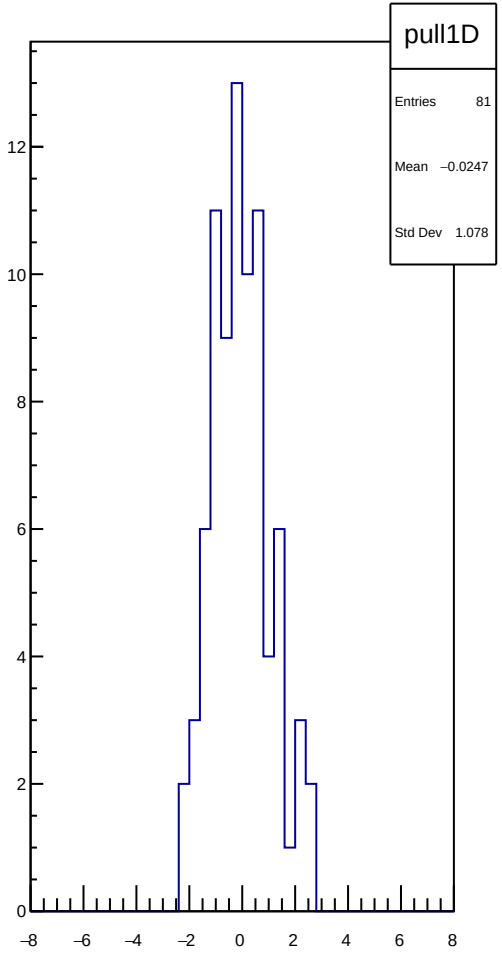

asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 5307 / 80
p0 3998 ± 3.218
5000
4800
4600
4400
4200
4000
3800
3600

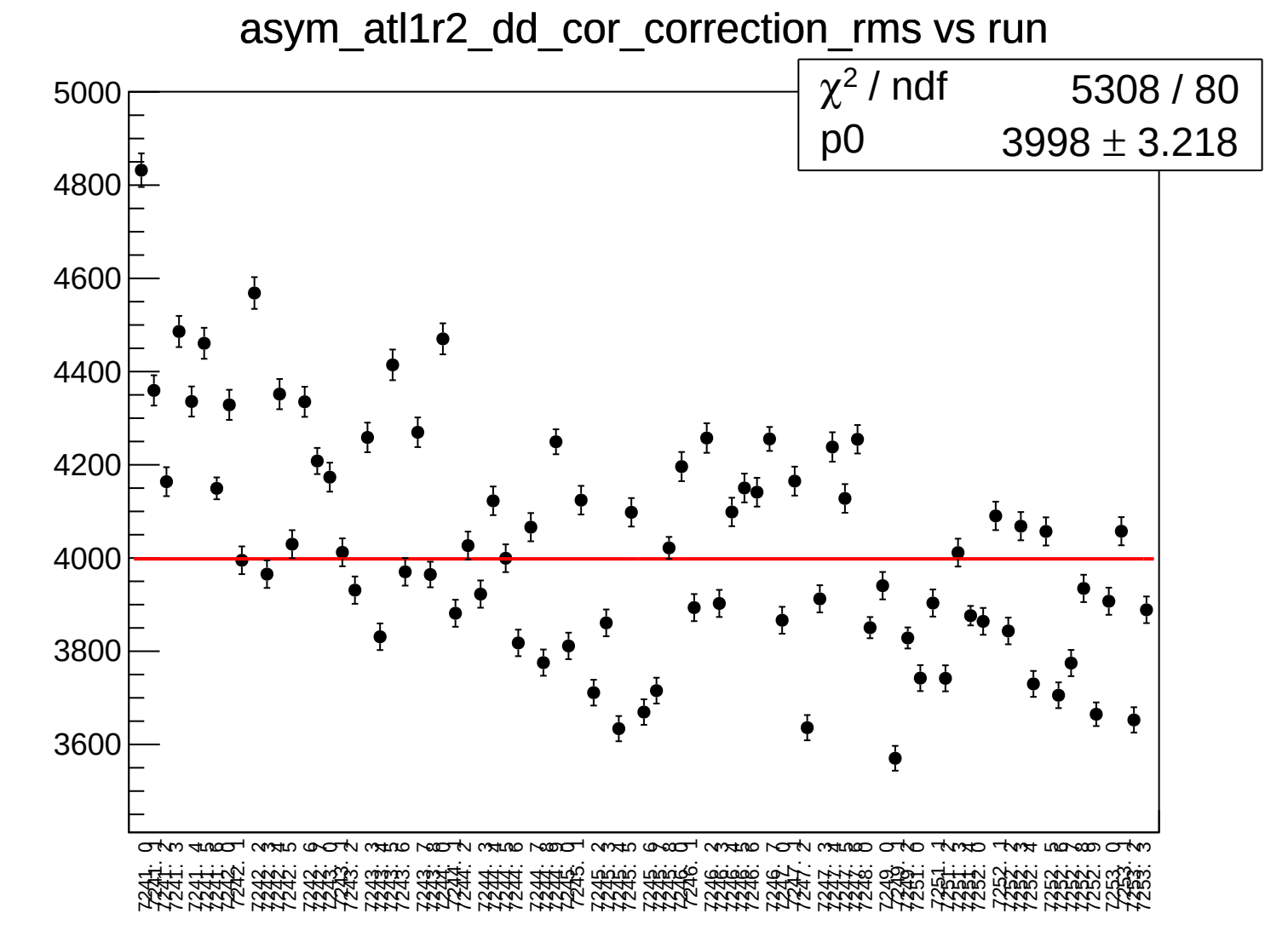

cor_asym_atl1r2_dd_mean vs run
χ² / ndf 69.28 / 80
p0 −862.1± 1900
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean 29.44
Std Dev 70.13
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

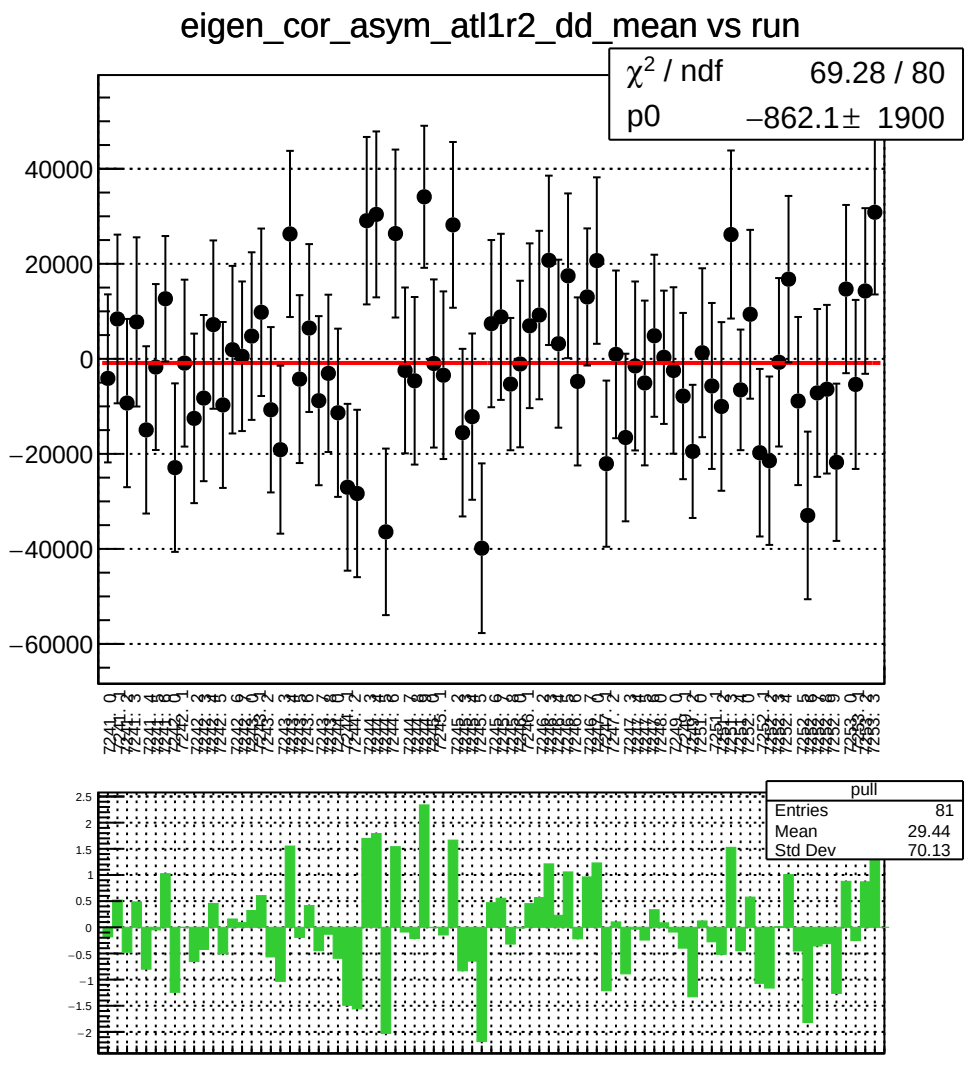

pull1D
Entries 81
Mean −0.00533
Std Dev 0.9248
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

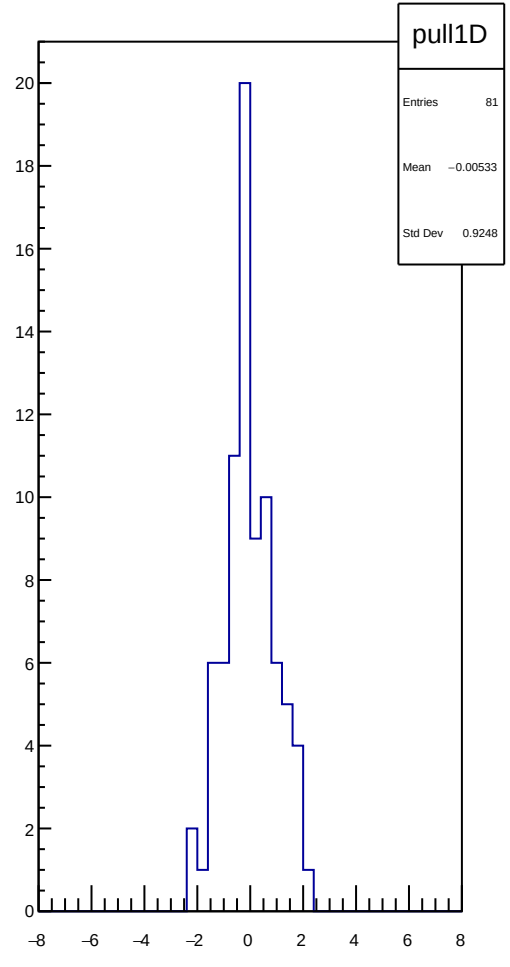

cor_asym_atl1r2_dd_rms vs run
χ^2 / ndf 81.89 / 80
p0 1672 ± 1.344
1710
1700
1690
1680
1670
1660
1650
1640
1630

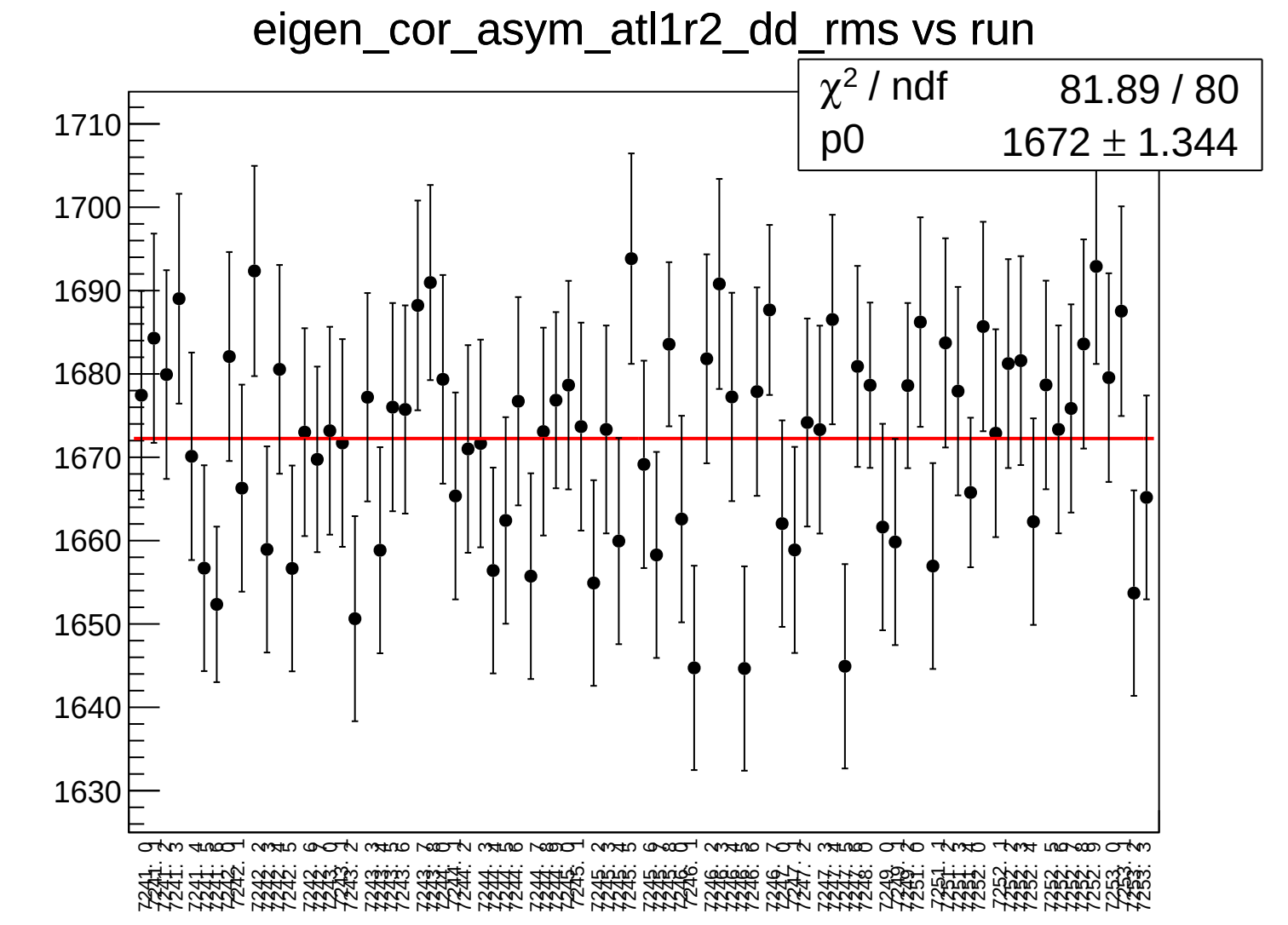

asym_atl1r2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 94.2 / 80
p0 322.4 ± 4551
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean −107.2
Std Dev 0
2
1
0
−1
−2

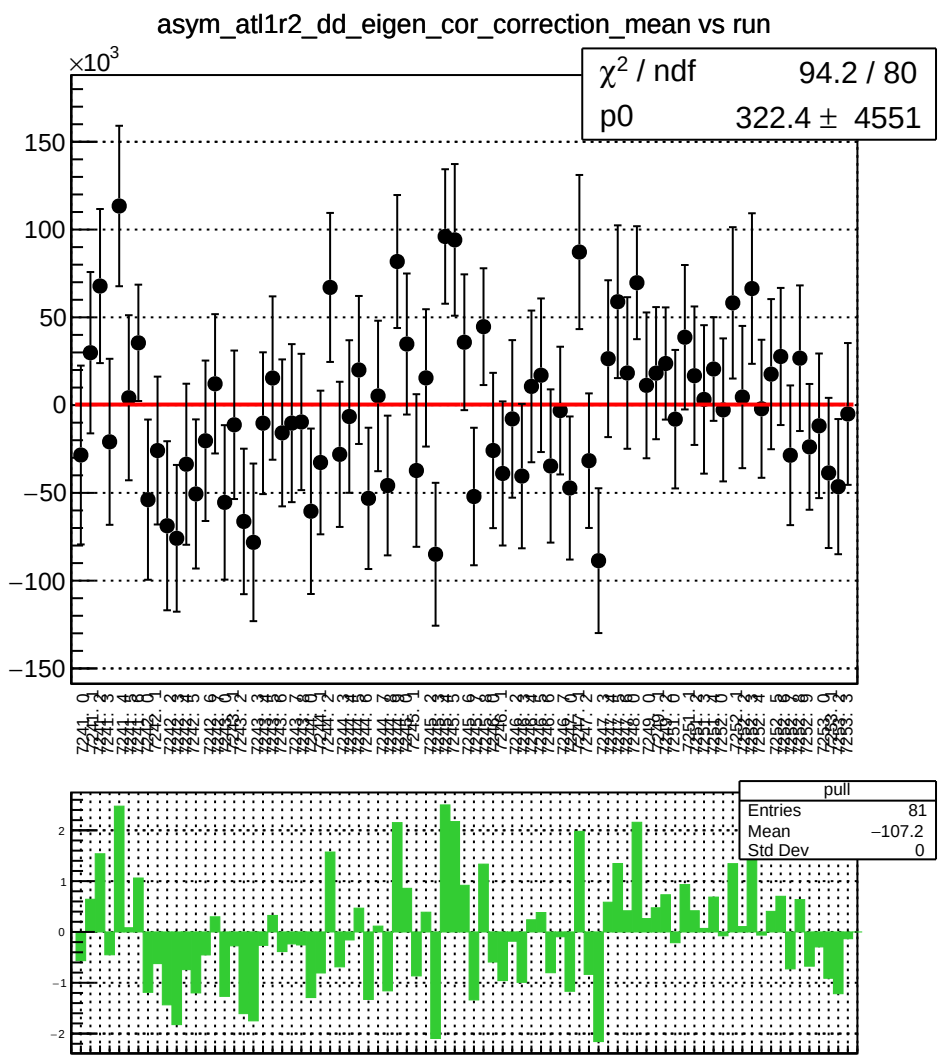

pull1D
Entries 81
Mean −0.0247
Std Dev 1.078
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

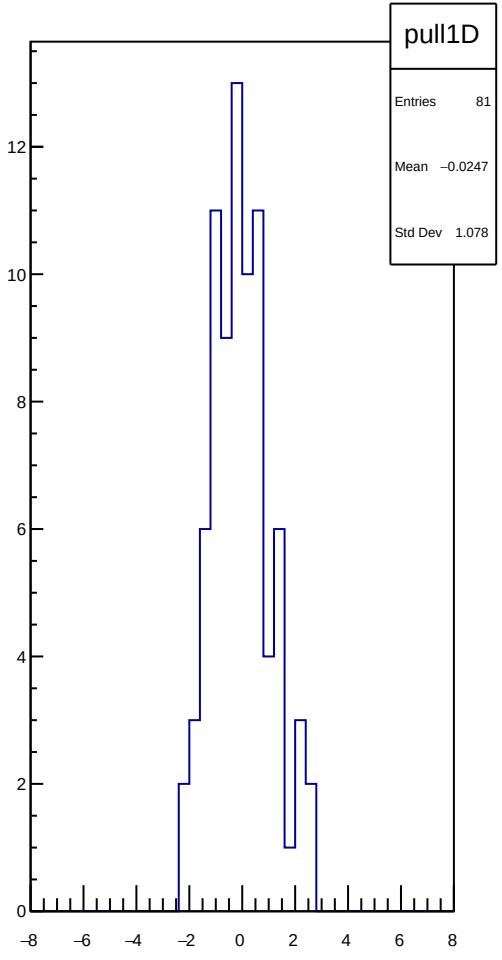

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 5308 / 80
p0 3998 ± 3.218
5000
4800
4600
4400
4200
4000
3800
3600

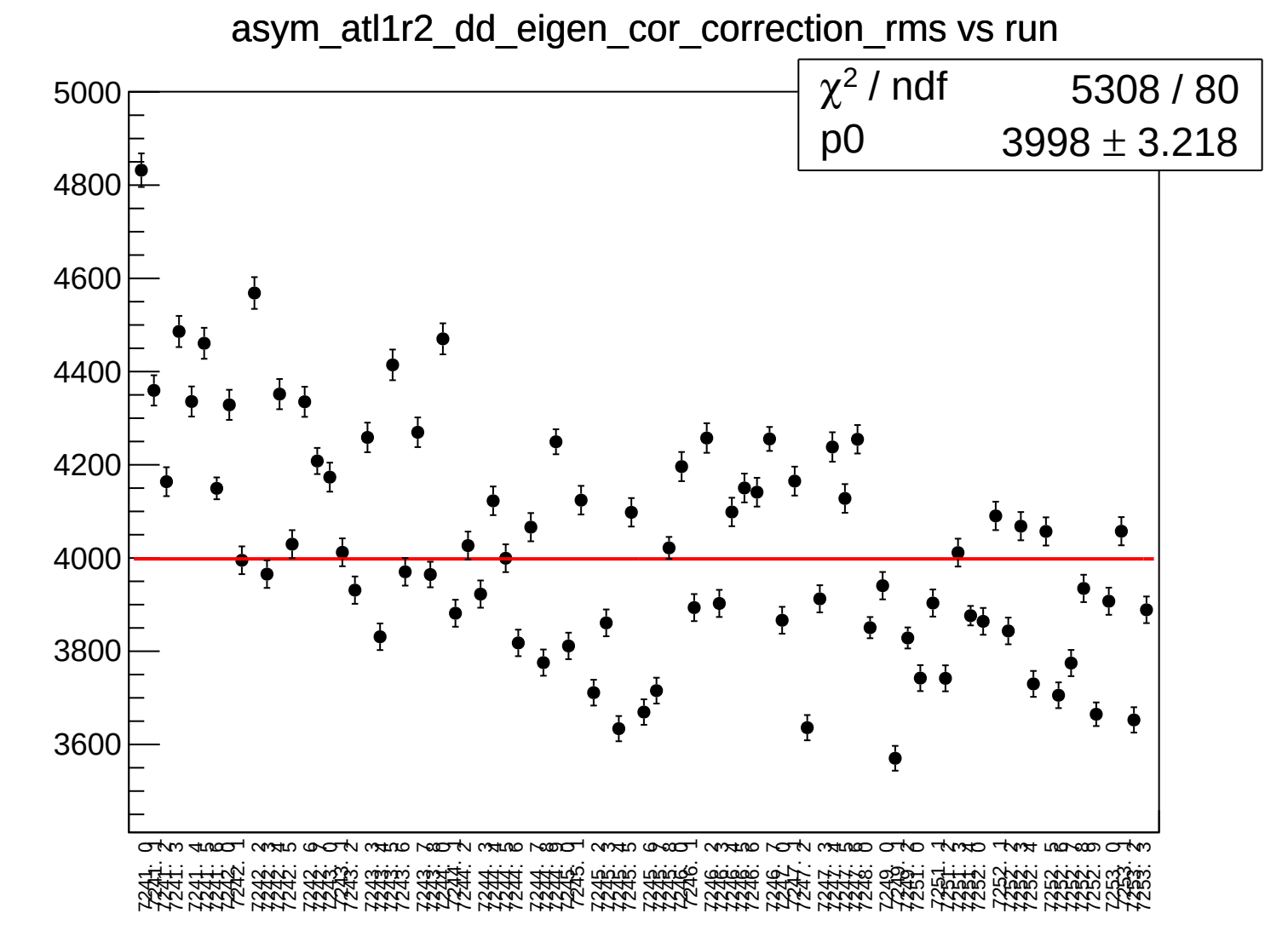

eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 69.28 / 80
p0 −862.1± 1900
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean 29.44
Std Dev 70.13
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

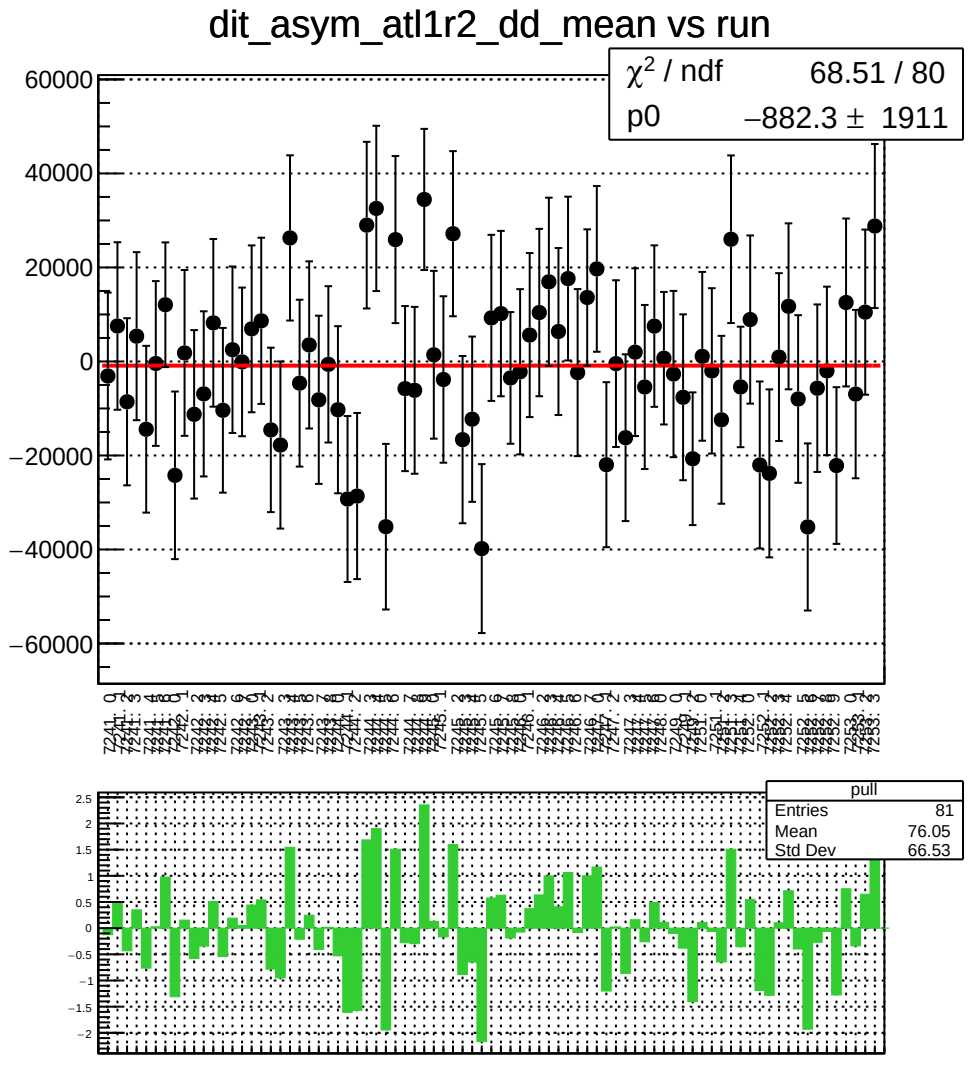

pull1D
Entries 81
Mean −0.00533
Std Dev 0.9248
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

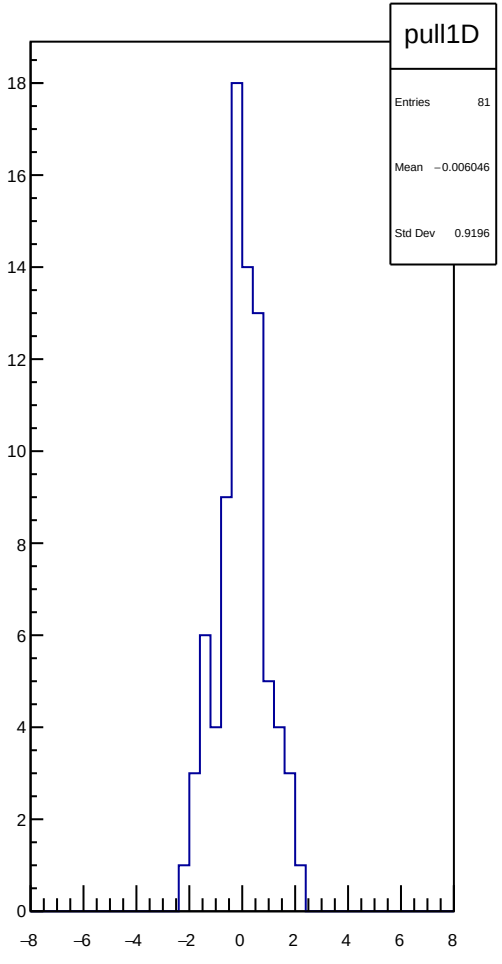

eigen_cor_asym_atl1r2_dd_rms vs run
χ² / ndf 81.89 / 80
p0 1672 ± 1.344
1710
1700
1690
1680
1670
1660
1650
1640
1630

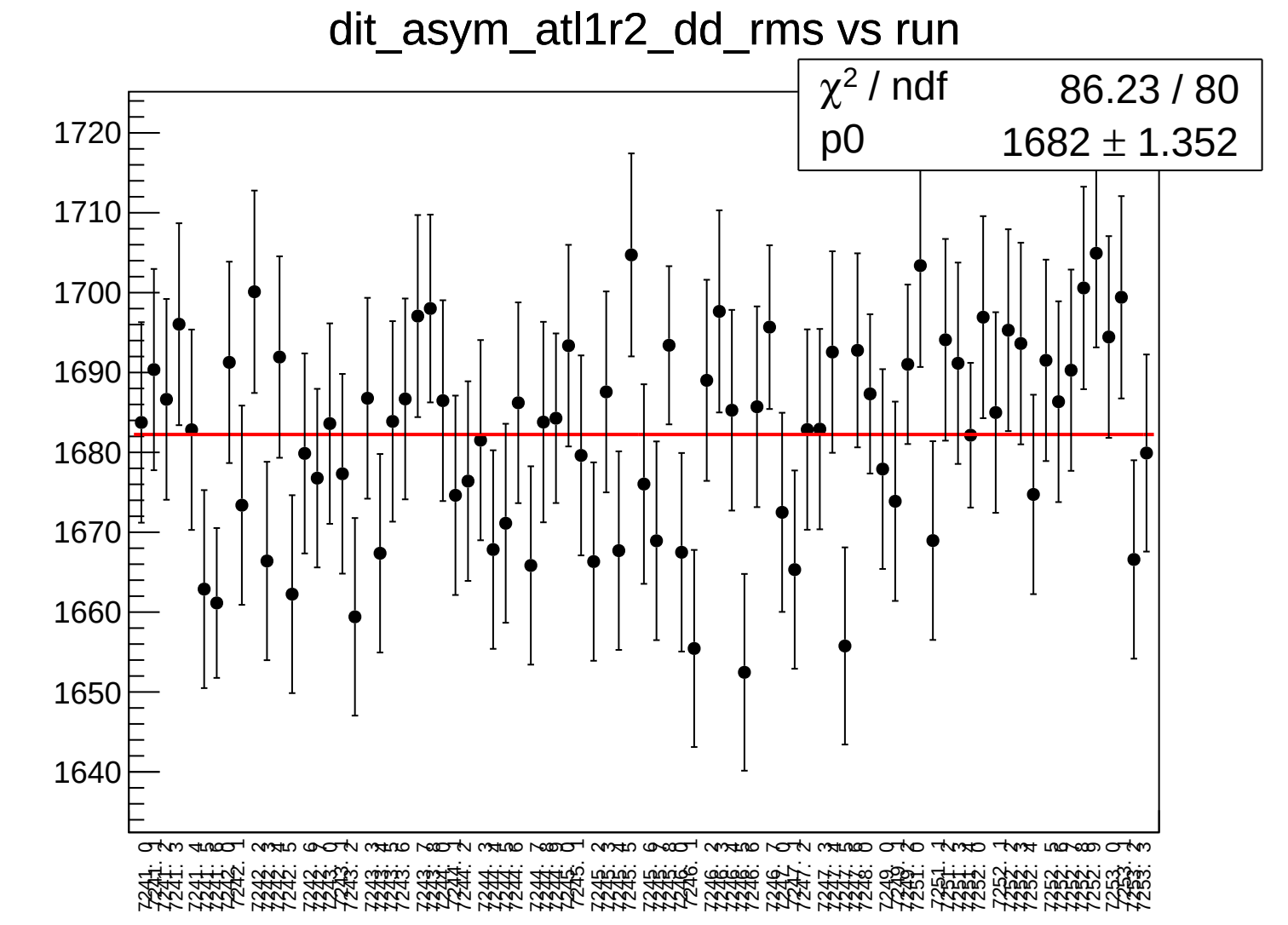

asym_atl1r2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 94.2 / 80
p0 322.4 ± 4551
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean −107.2
Std Dev 0
2
1
0
−1
−2

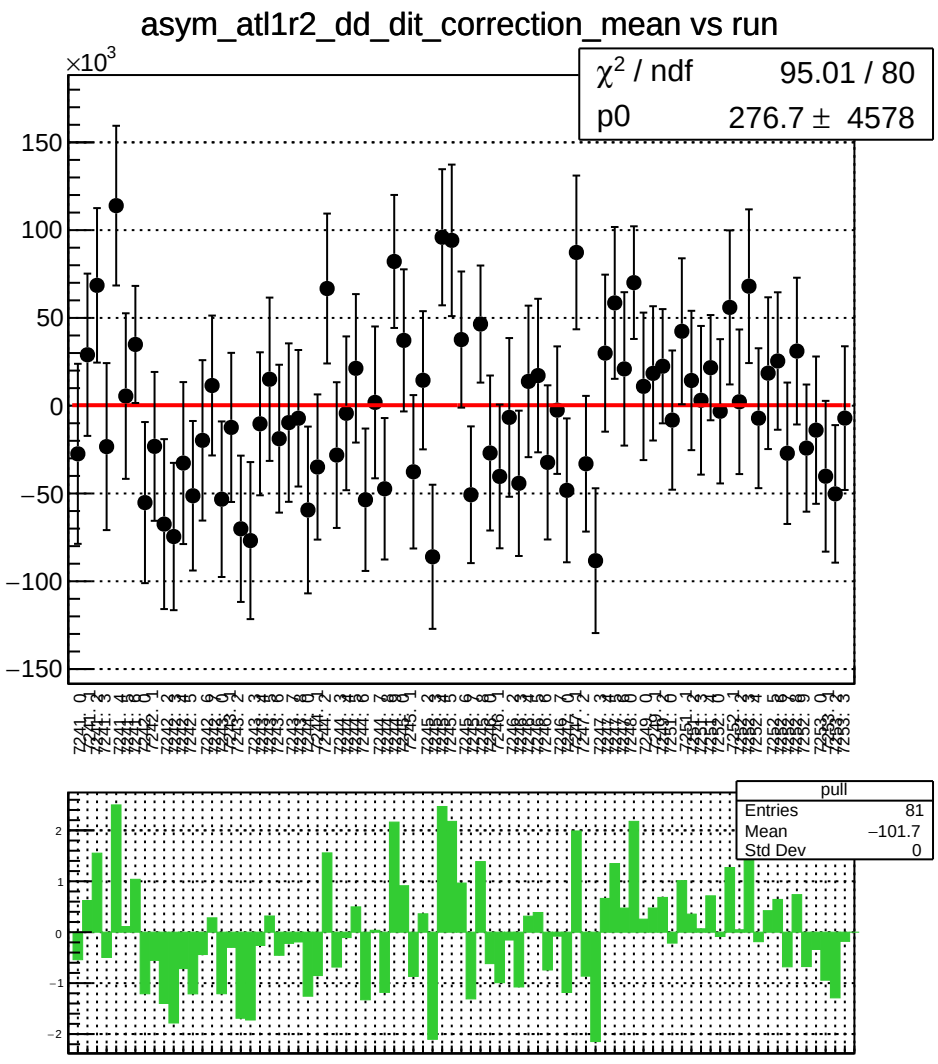

pull1D
Entries 81
Mean −0.0247
Std Dev 1.078
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

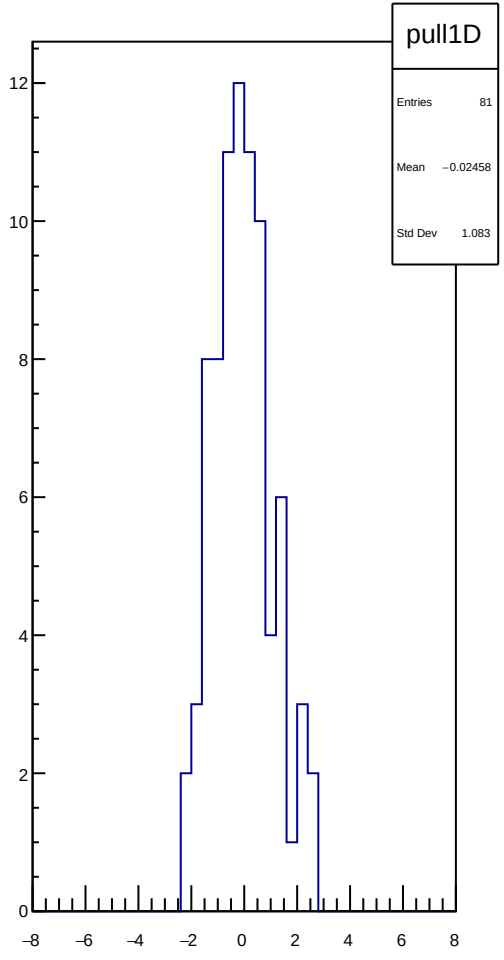

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 5308 / 80
p0 3998 ± 3.218
5000
4800
4600
4400
4200
4000
3800
3600

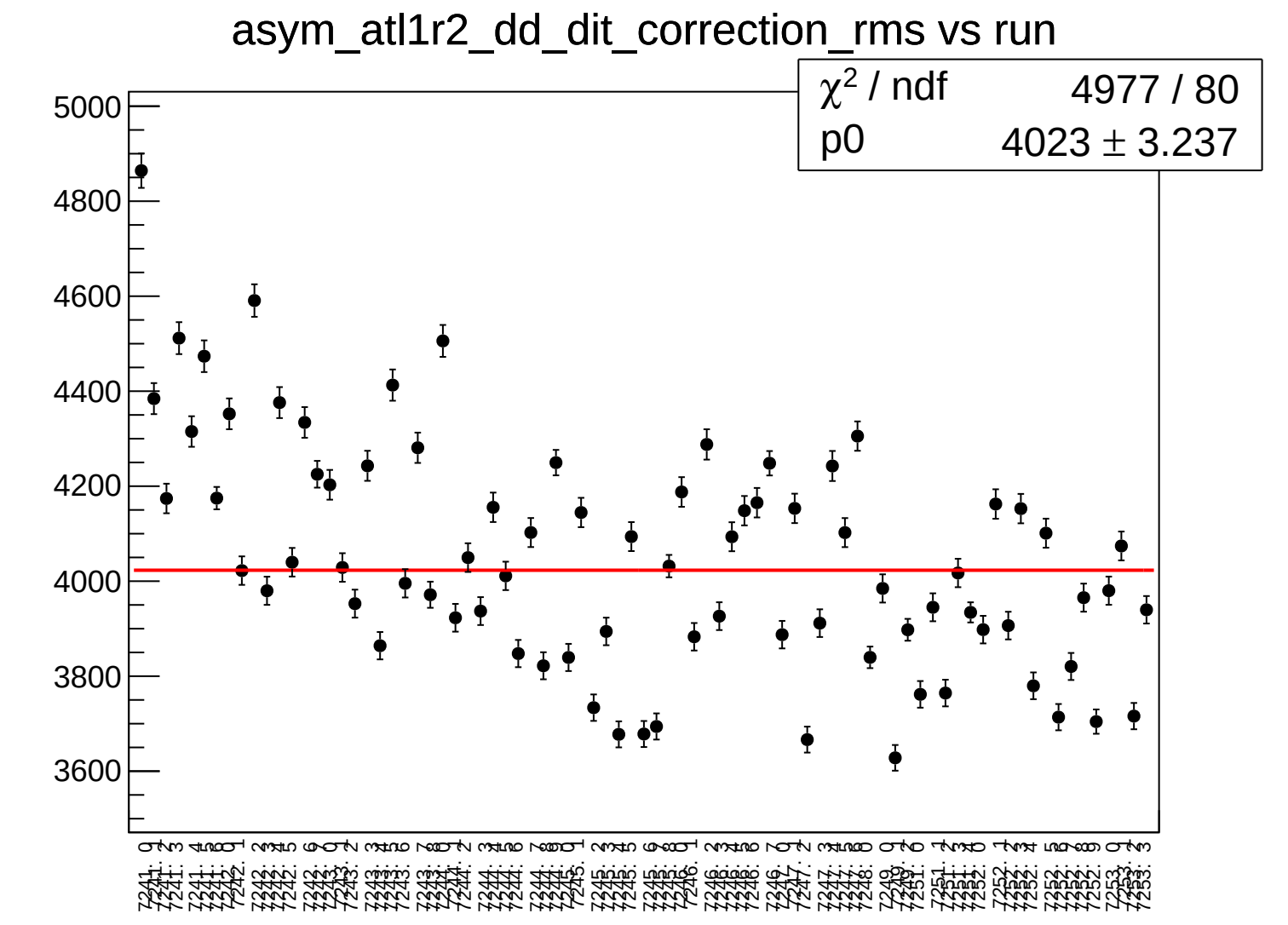

dit_asym_atl1r2_dd_mean vs run
χ² / ndf 68.51 / 80
p0 −882.3 ± 1911
pull
Entries 81
Mean 76.05
Std Dev 66.53

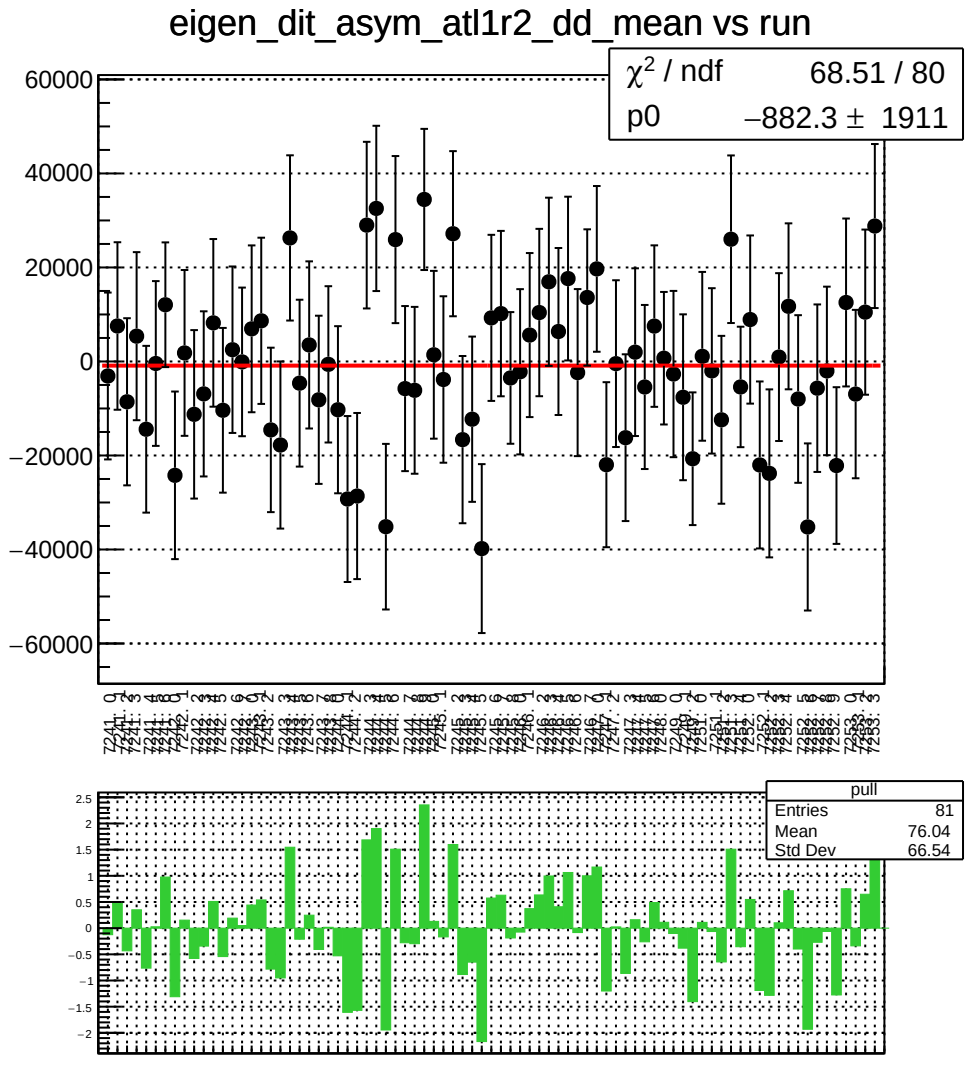

pull1D
Entries 81
Mean −0.006046
Std Dev 0.9196

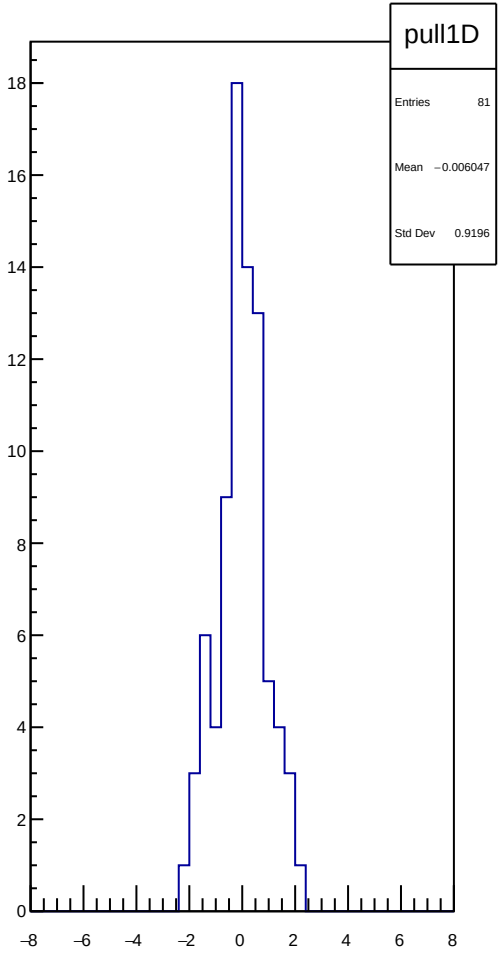

dit_asym_atl1r2_dd_rms vs run
χ² / ndf 86.23 / 80
p0 1682 ± 1.352
1720
1710
1700
1690
1680
1670
1660
1650
1640

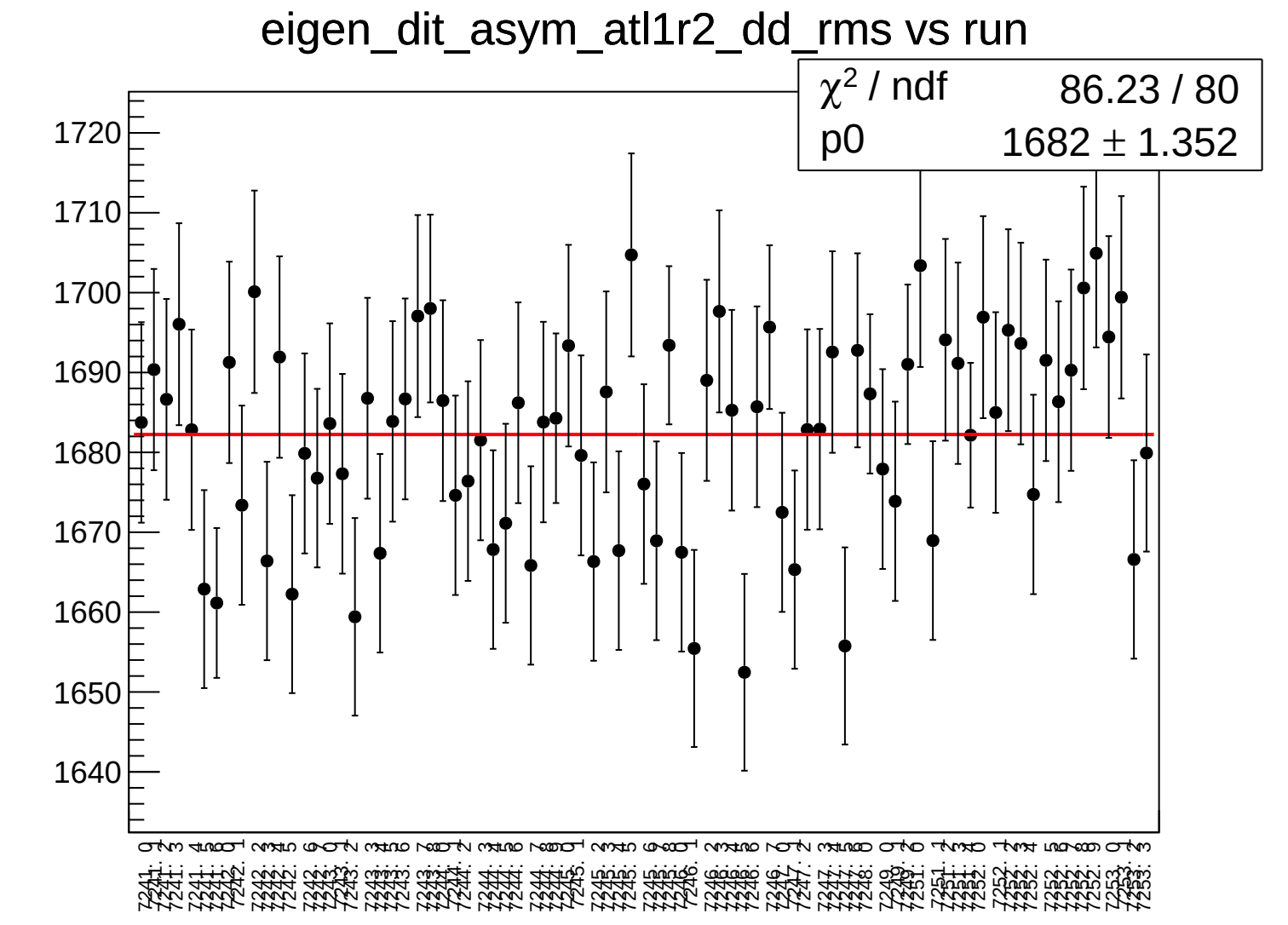

asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 95.01 / 80
p0 276.7 ± 4578
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean −101.7
Std Dev 0
2
1
0
−1
−2

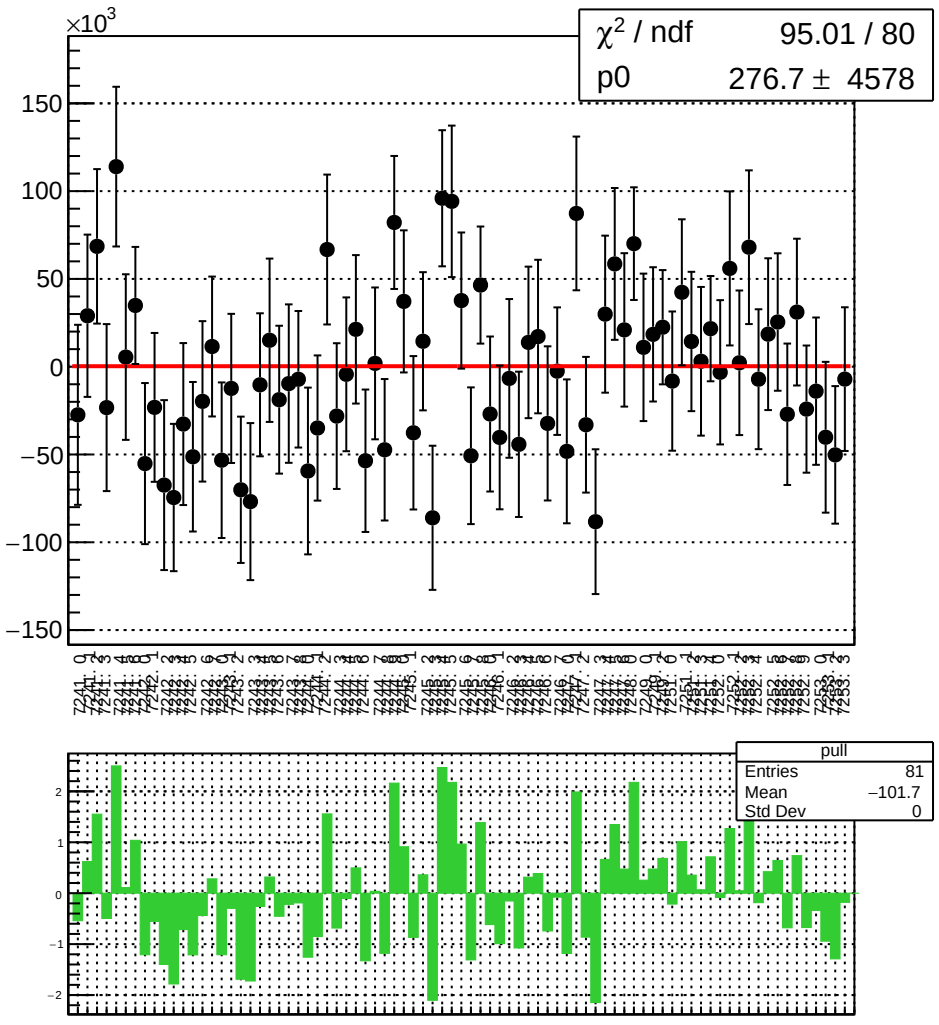

pull1D
Entries 81
Mean −0.02458
Std Dev 1.083
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

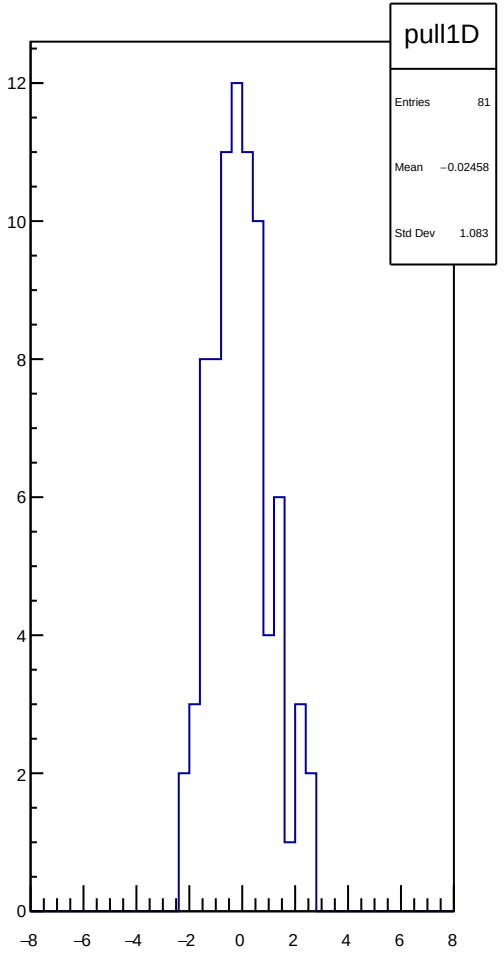

asym_atl1r2_dd_dit_correction_rms vs run
χ² / ndf 4977 / 80
p0 4023 ± 3.237
5000
4800
4600
4400
4200
4000
3800
3600

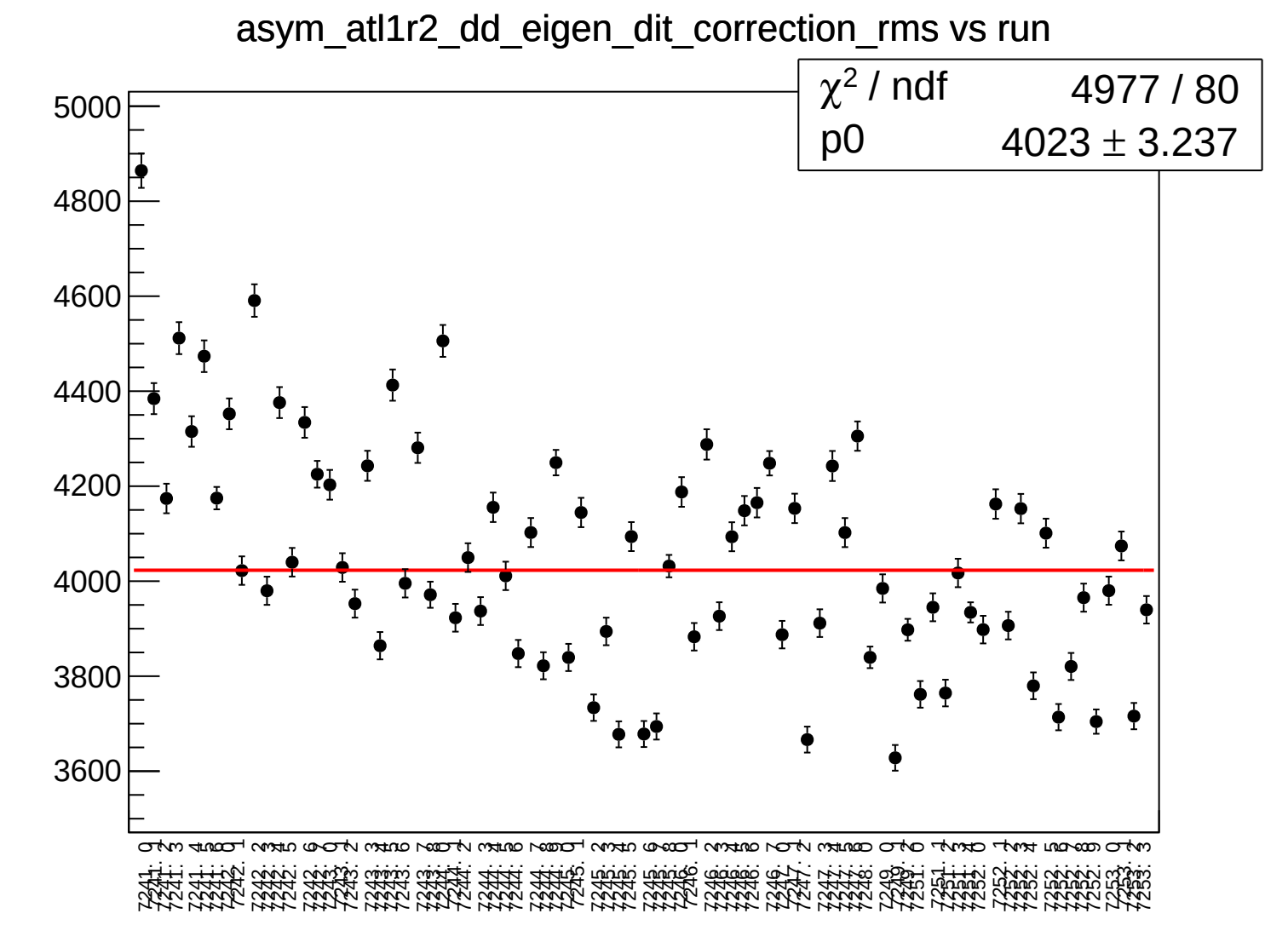

eigen_dit_asym_atl1r2_dd_mean vs run
χ² / ndf 68.51 / 80
p0 −882.3 ± 1911
pull
Entries 81
Mean 76.04
Std Dev 66.54

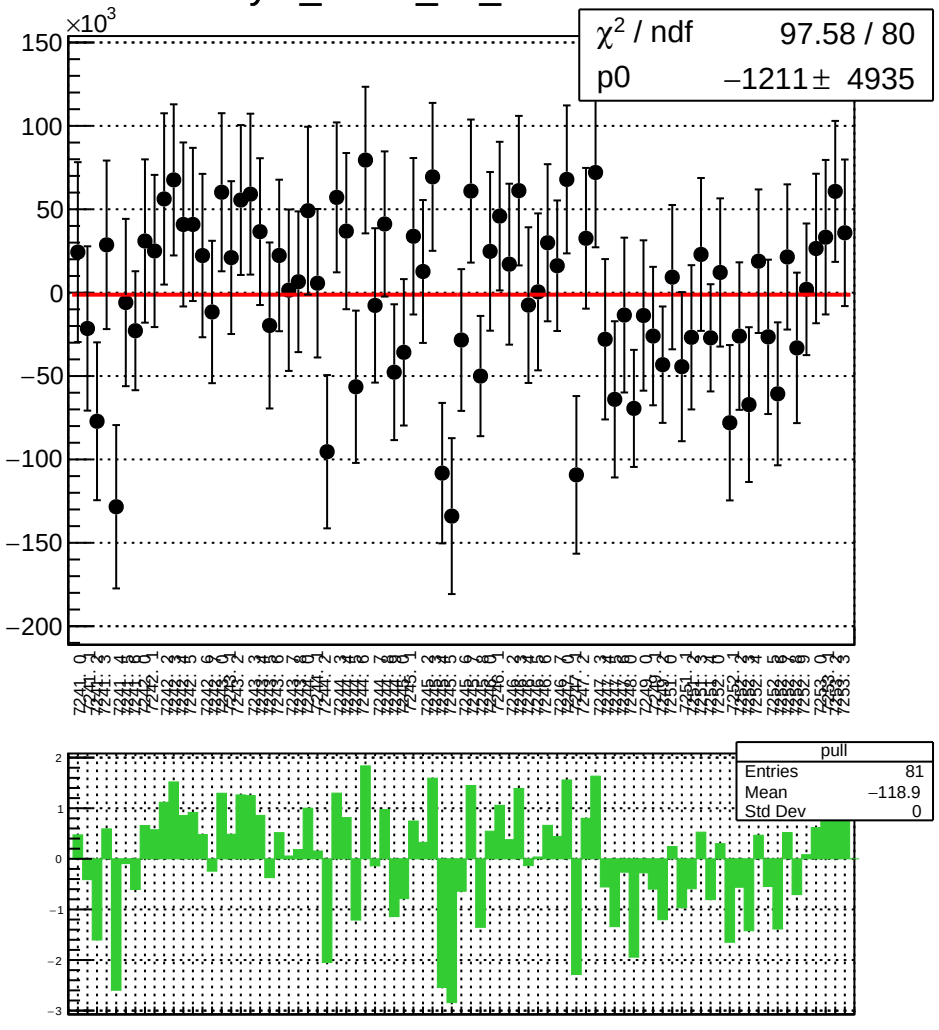

pull1D
Entries 81
Mean −0.006047
Std Dev 0.9196

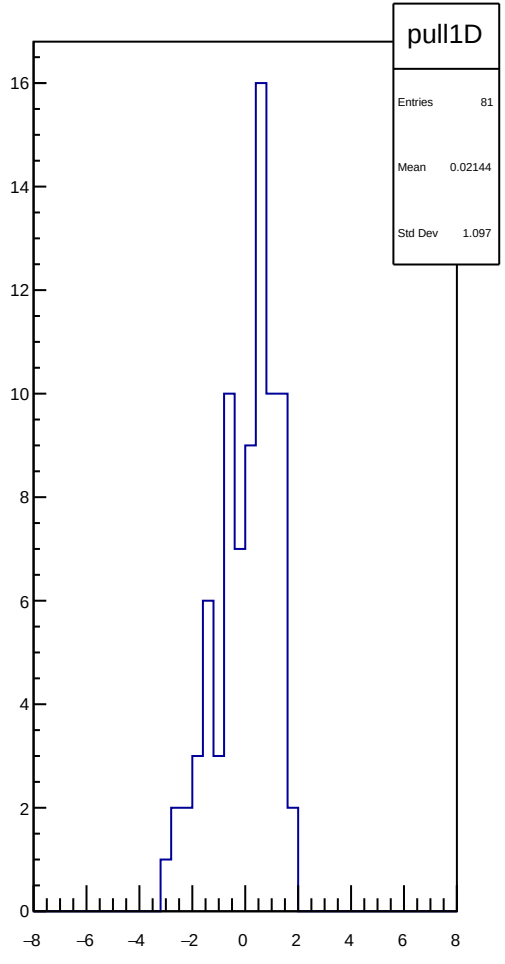

eigen_dit_asym_atl1r2_dd_rms vs run
χ² / ndf 86.23 / 80
p0 1682 ± 1.352
1720
1710
1700
1690
1680
1670
1660
1650
1640

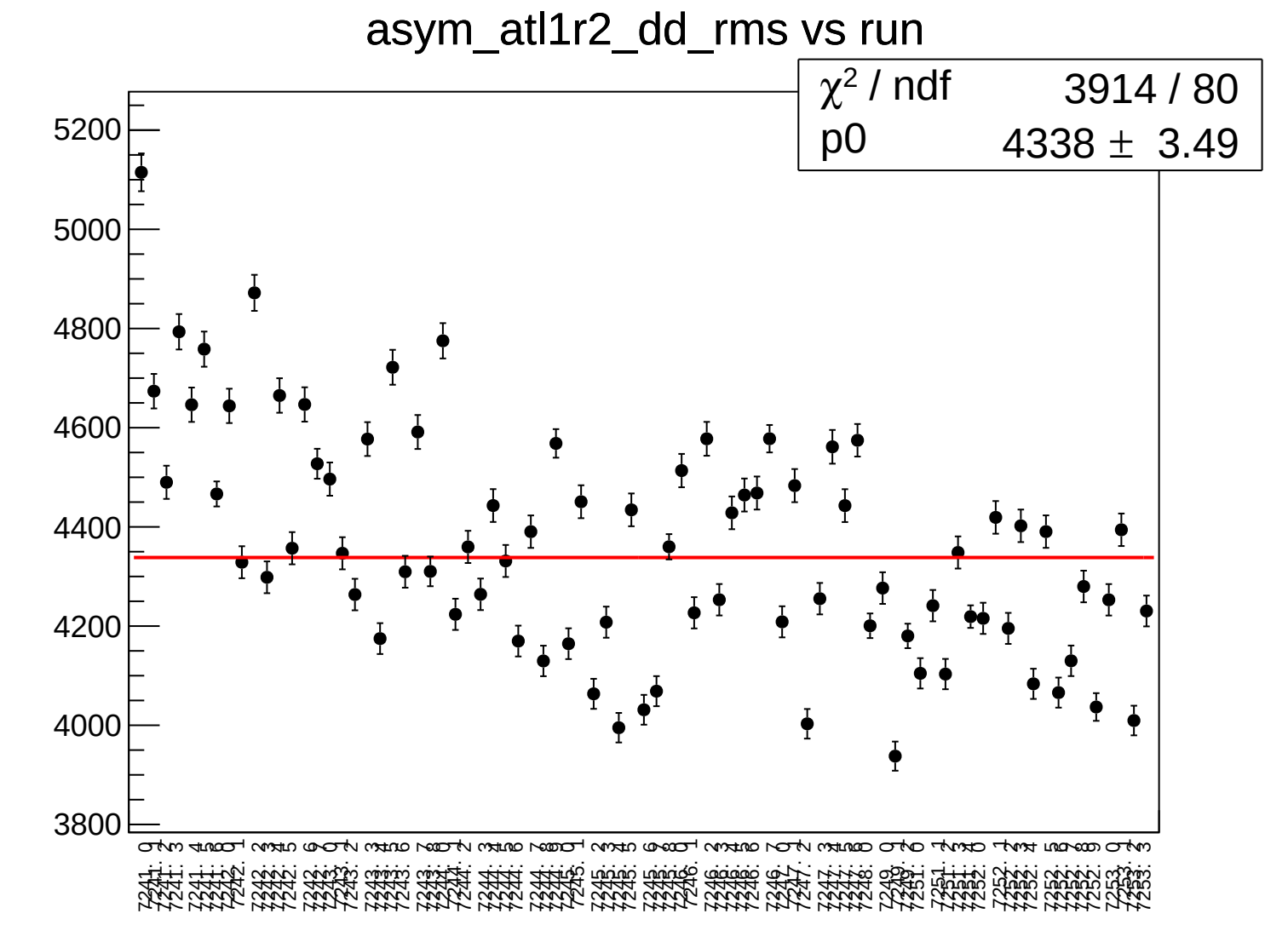

asym_atl1r2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 95.01 / 80
p0 276.7 ± 4578
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean −101.7
Std Dev 0
2
1
0
−1
−2

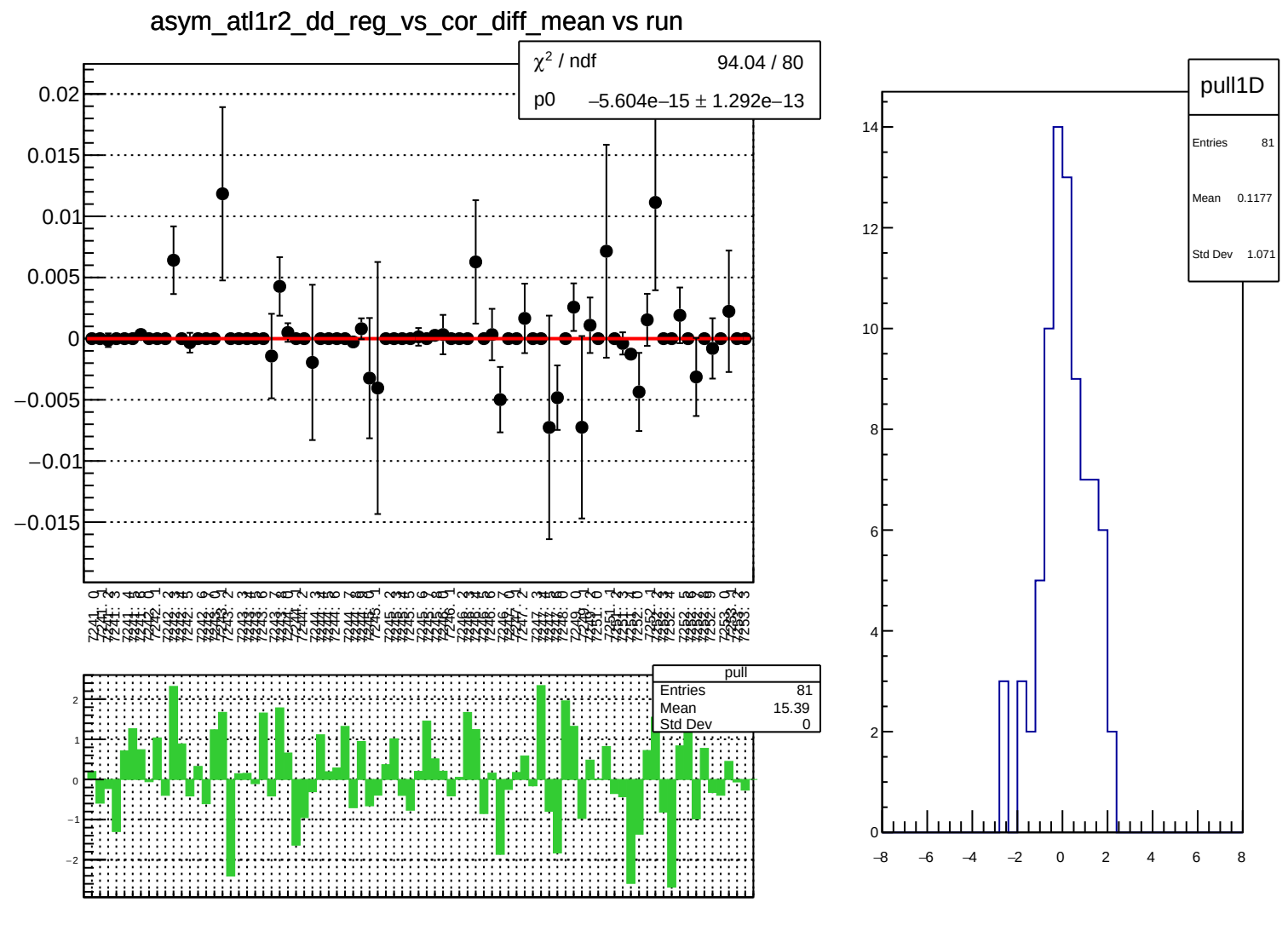

pull1D
Entries 81
Mean −0.02458
Std Dev 1.083
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

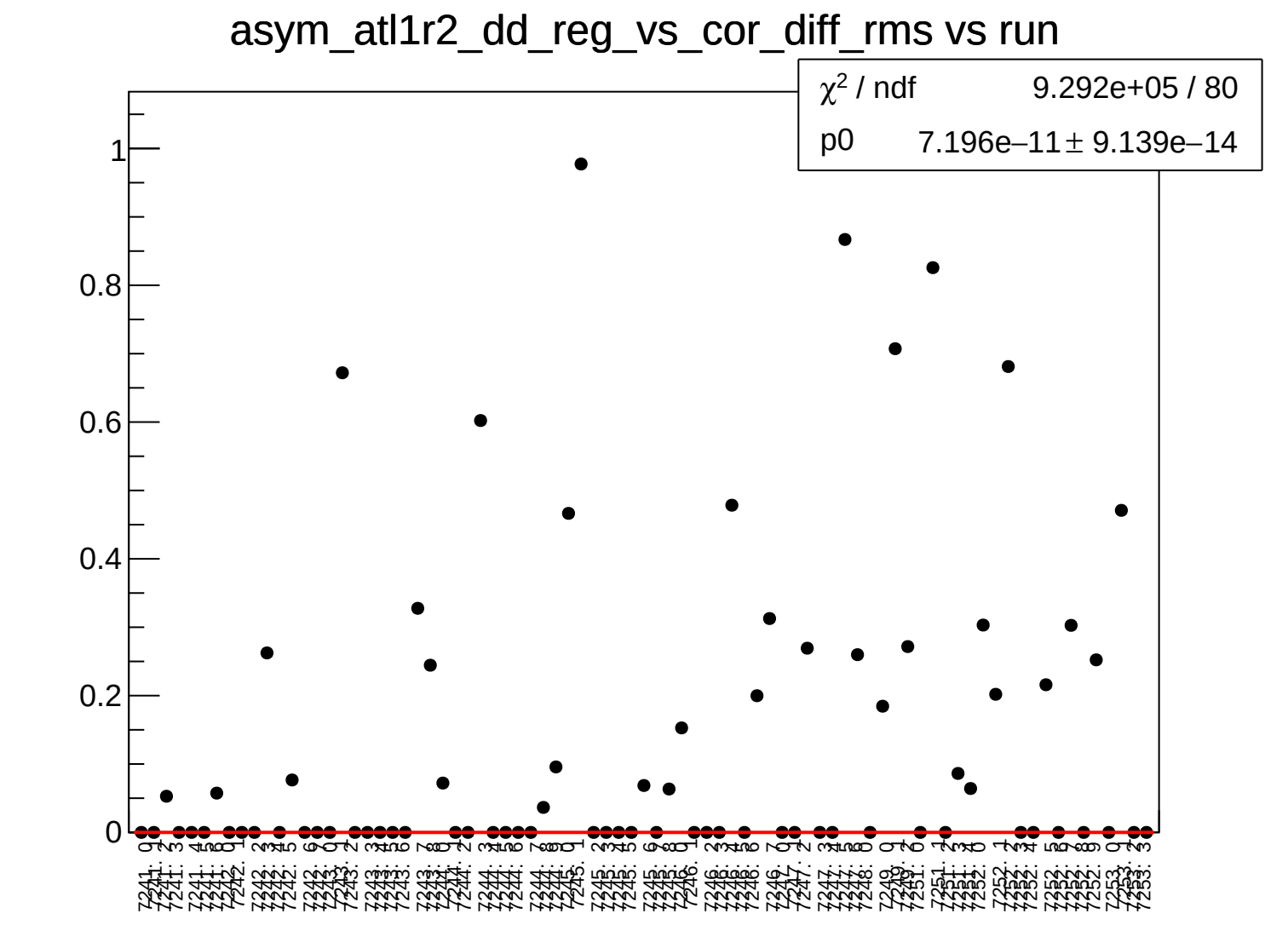

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 4977 / 80
p0 4023 ± 3.237
5000
4800
4600
4400
4200
4000
3800
3600

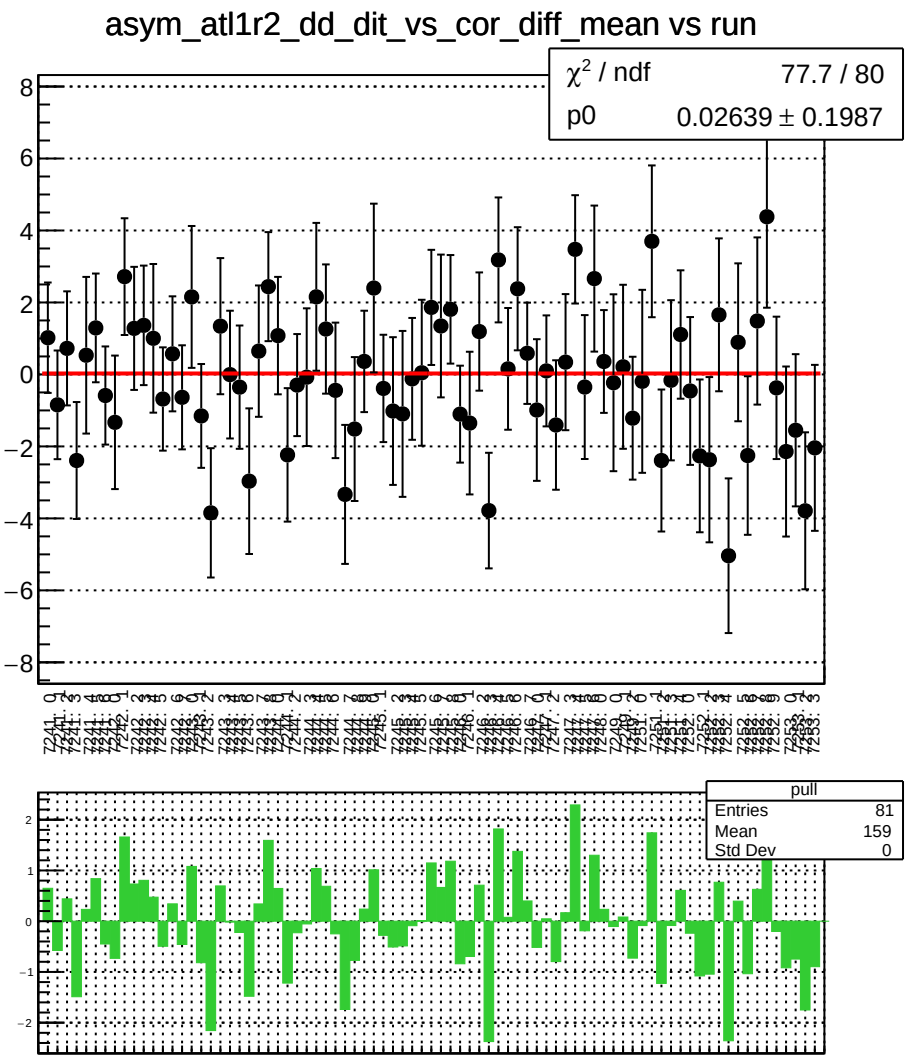

asym_atl1r2_dd_mean vs run
χ² / ndf 97.58 / 80
p0 −1211 ± 4935
×10³
pull
Entries 81
Mean −118.9
Std Dev 0

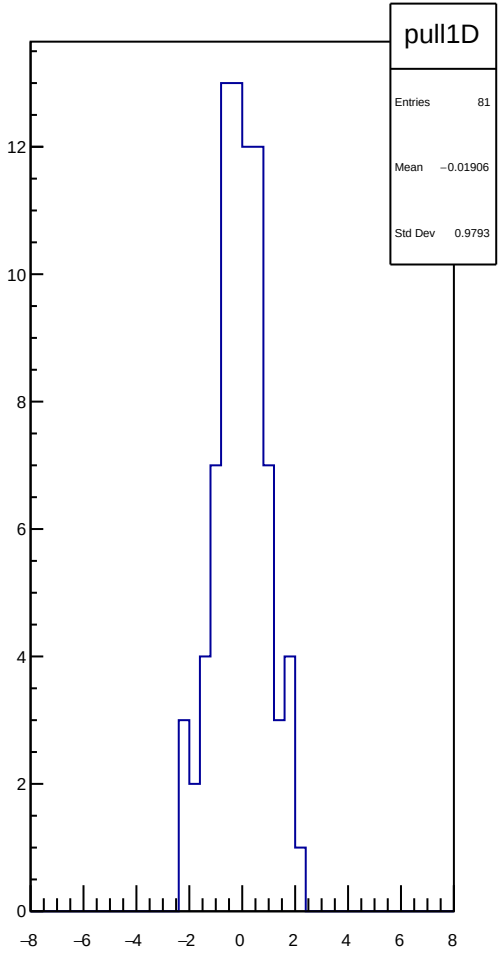

pull1D
Entries 81
Mean 0.02144
Std Dev 1.097

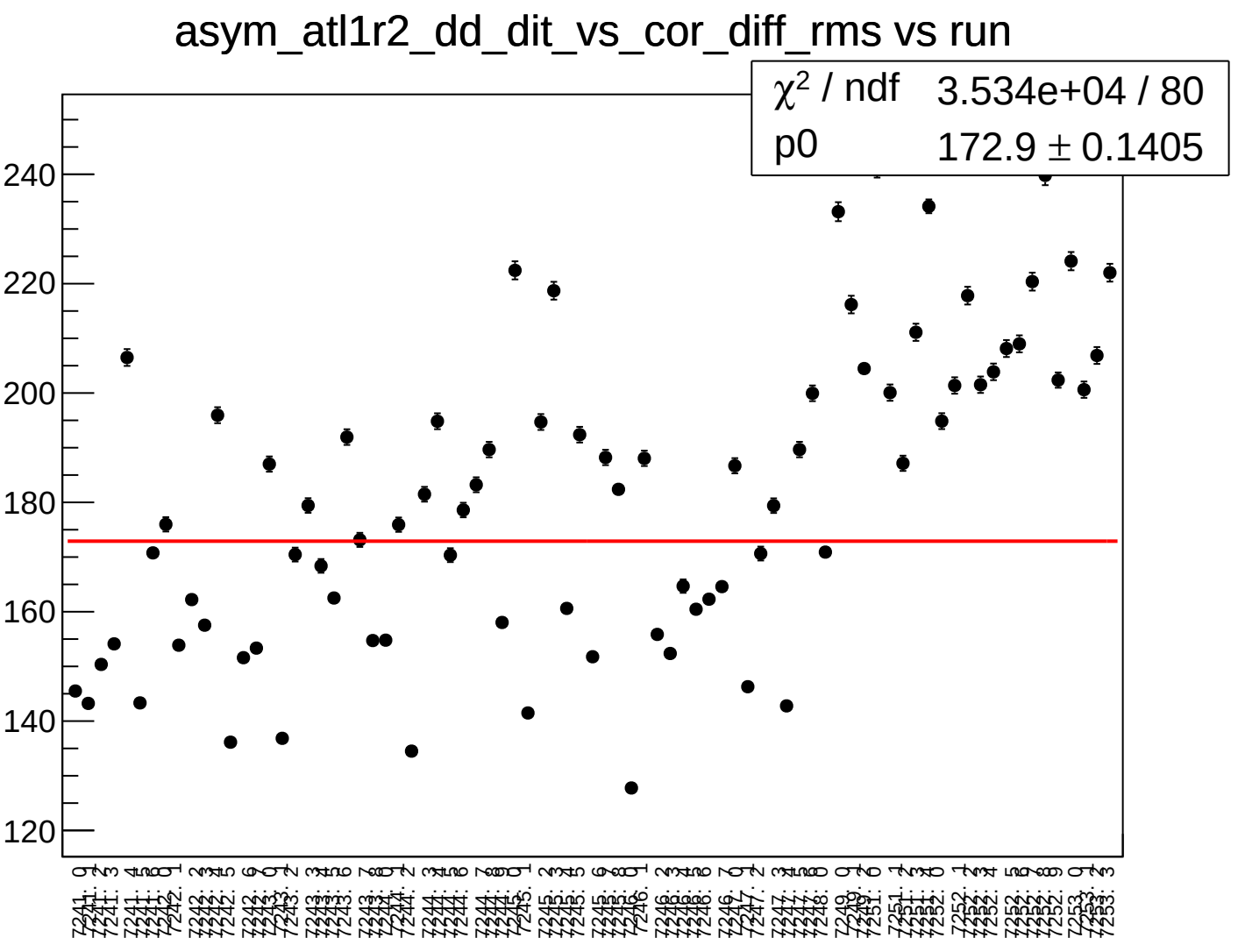

asym_atl1r2_dd_rms vs run
χ^2 / ndf 3914 / 80
p0 4338 ± 3.49
5200
5000
4800
4600
4400
4200
4000
3800

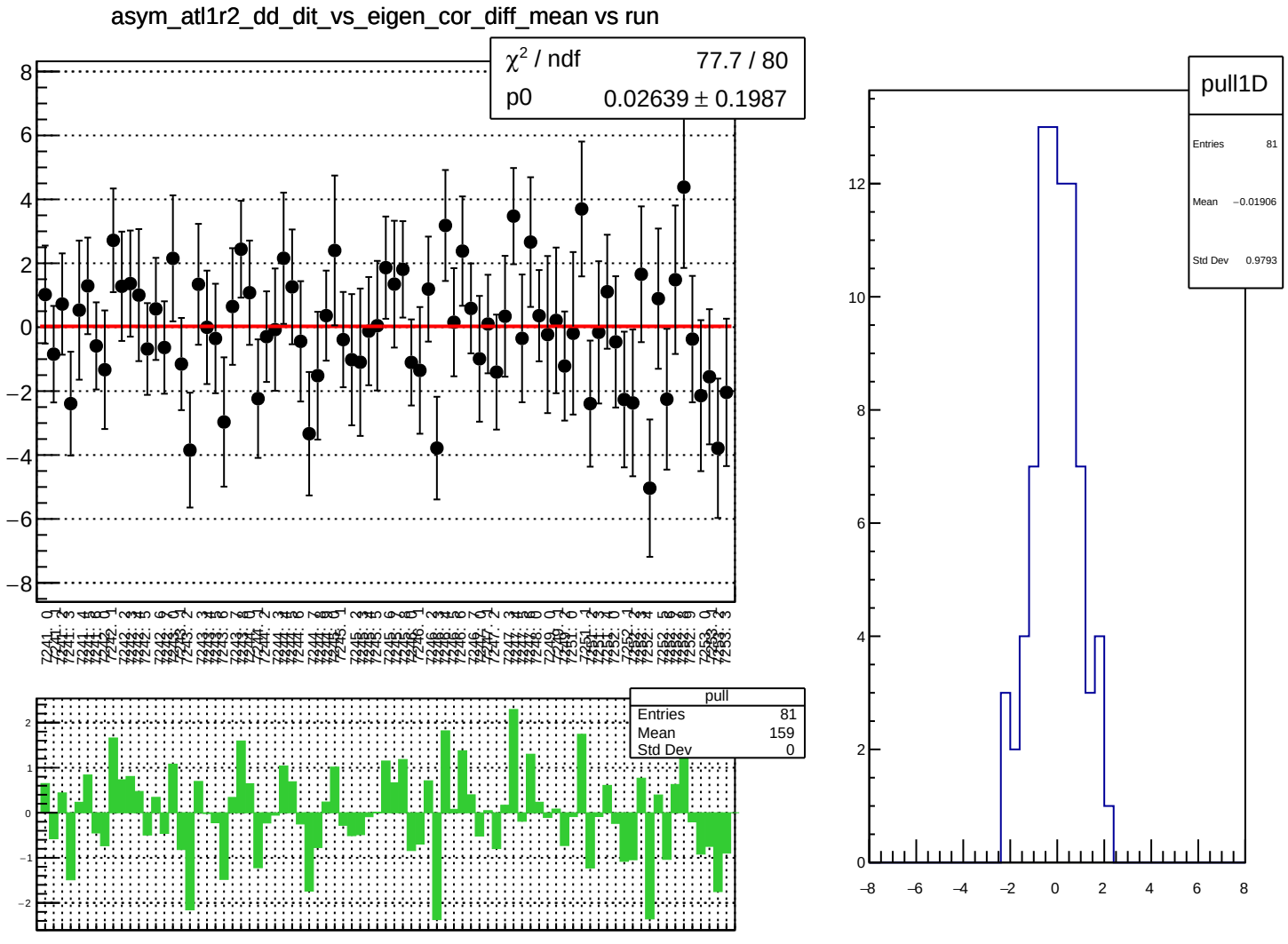

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 94.04 / 80
p0 −5.604e−15 ± 1.292e−13
pull
Entries 81
Mean 15.39
Std Dev 0
pull1D
Entries 81
Mean 0.1177
Std Dev 1.071

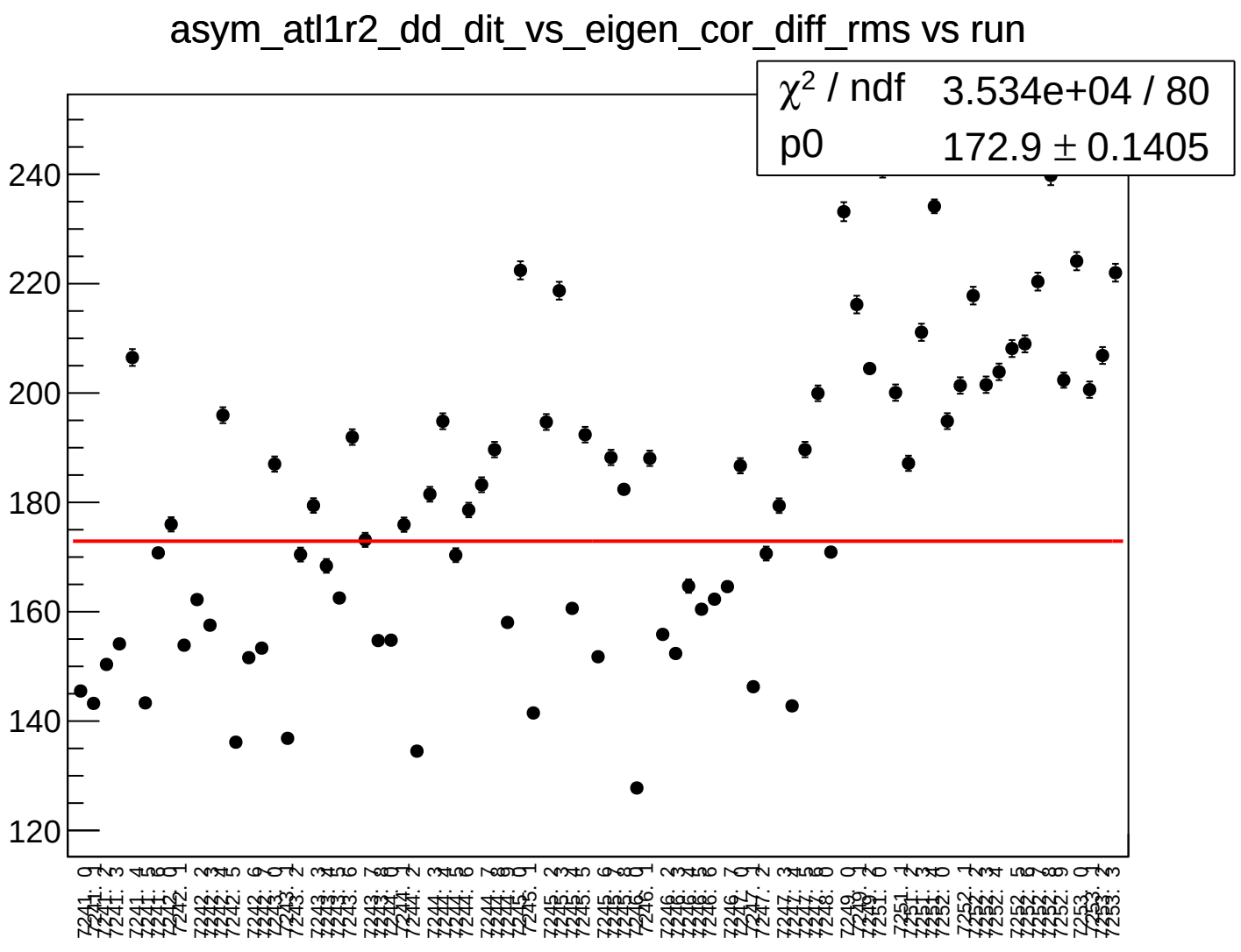

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.292e+05 / 80
p0 7.196e−11 ± 9.139e−14
1
0.8
0.6
0.4
0.2
0

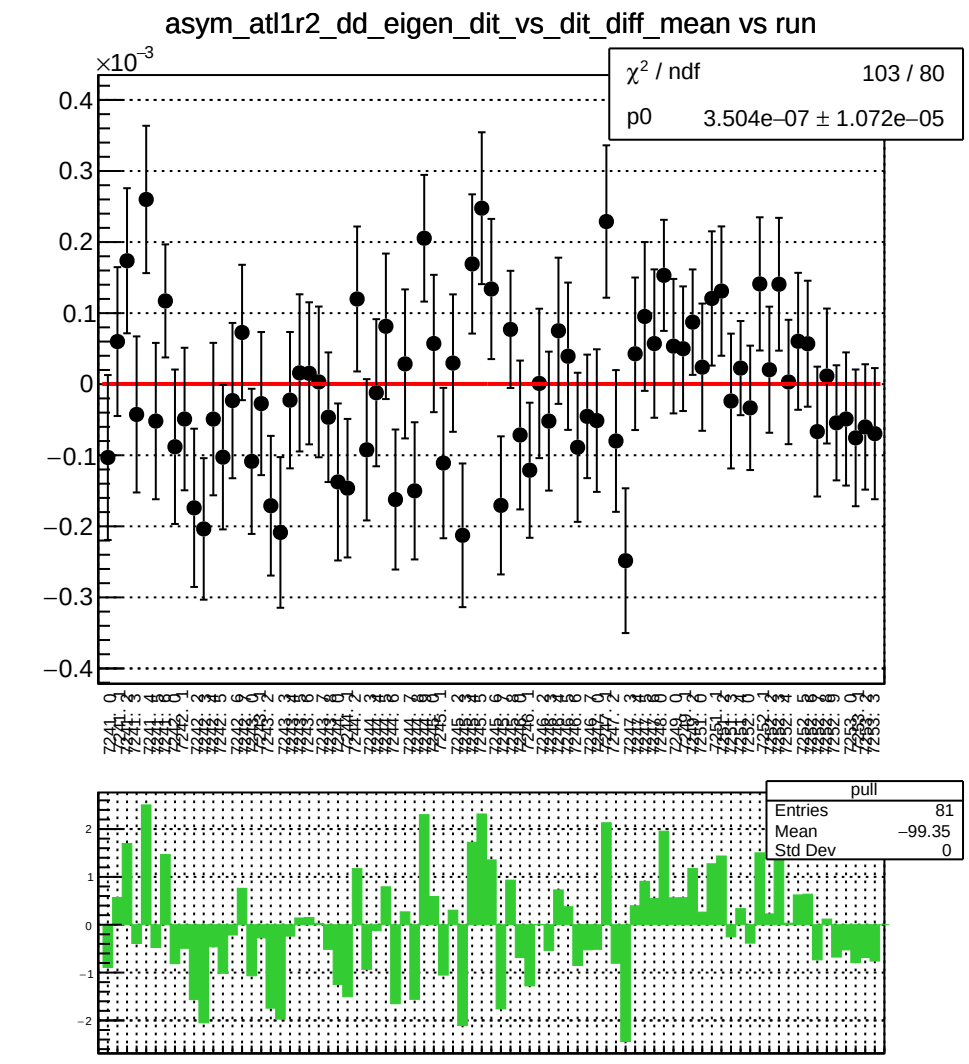

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 77.7 / 80
p0 0.02639 ± 0.1987
pull
Entries 81
Mean 159
Std Dev 0

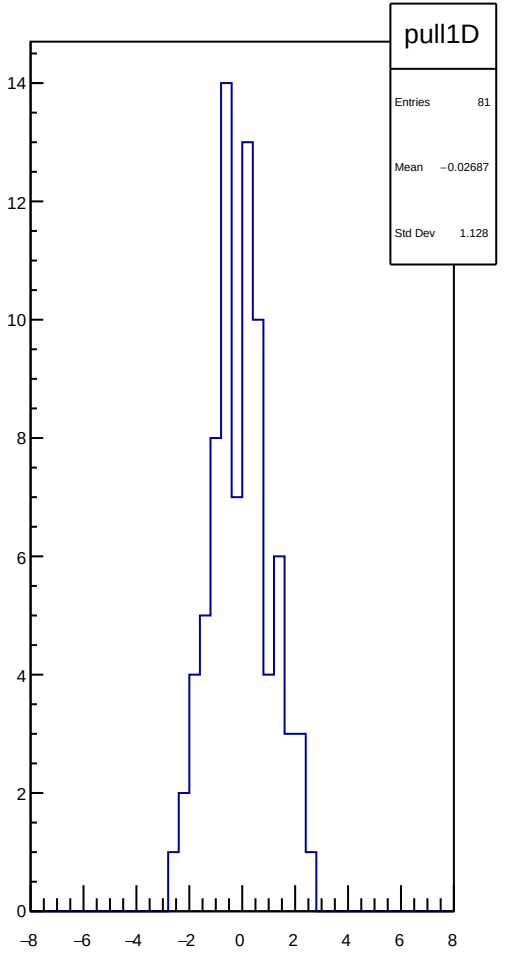

pull1D
Entries 81
Mean −0.01906
Std Dev 0.9793

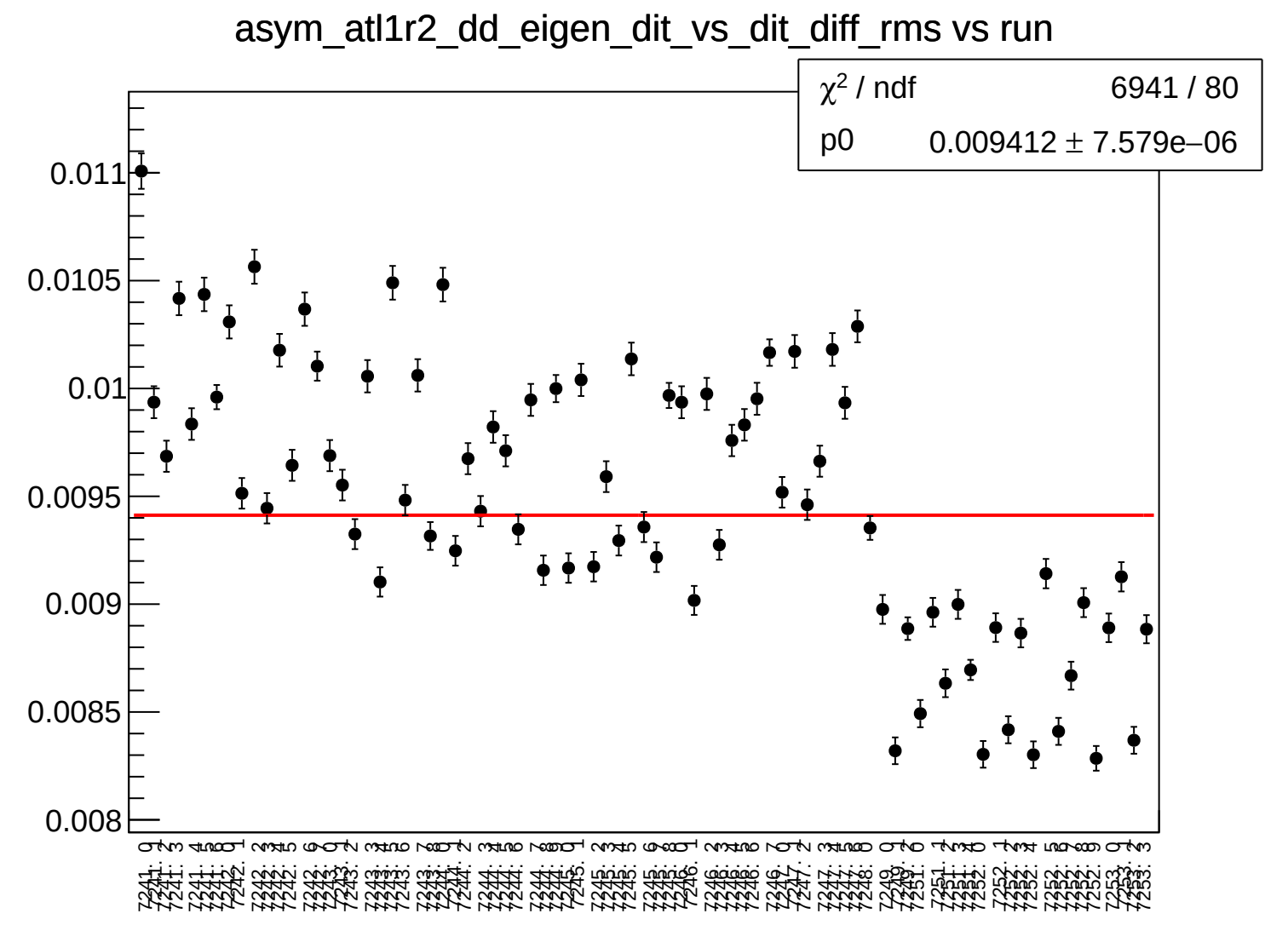

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.534e+04 / 80
p0 172.9 ± 0.1405
240
220
200
180
160
140
120

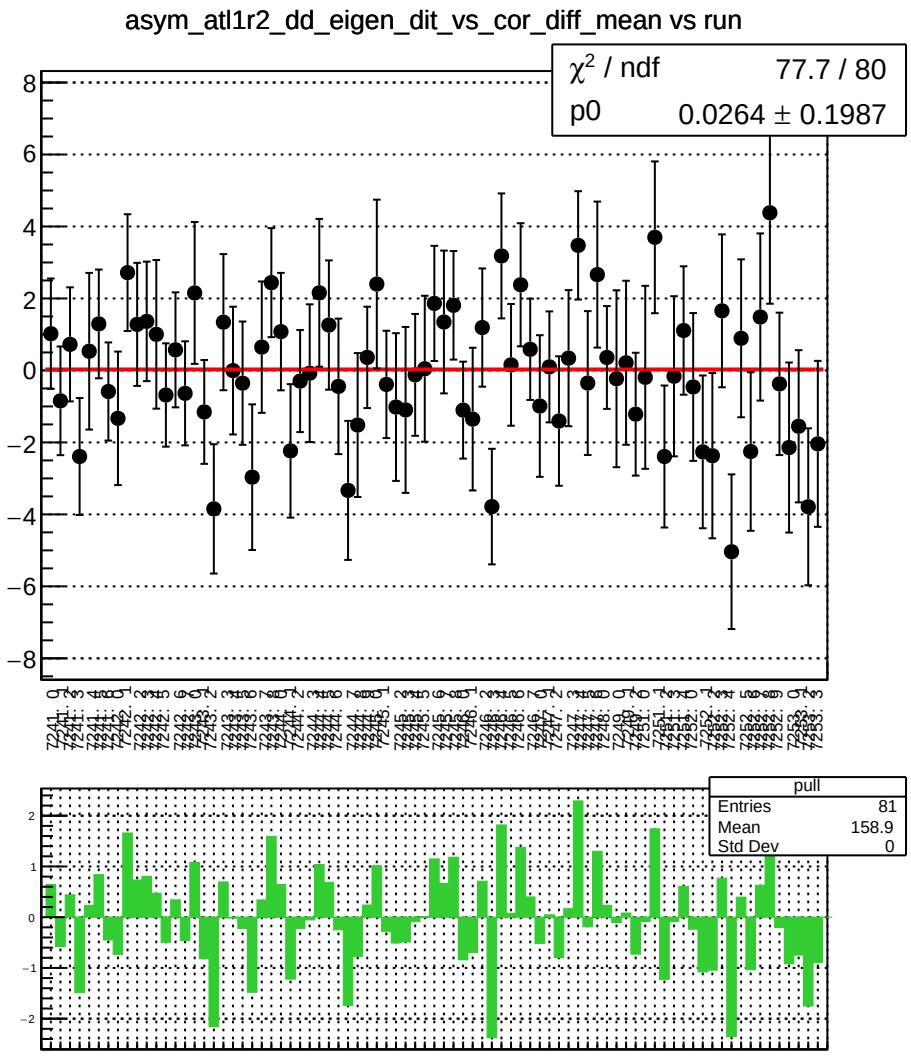

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.7 / 80
p0 0.02639 ± 0.1987
pull
Entries 81
Mean 159
Std Dev 0
pull1D
Entries 81
Mean −0.01906
Std Dev 0.9793

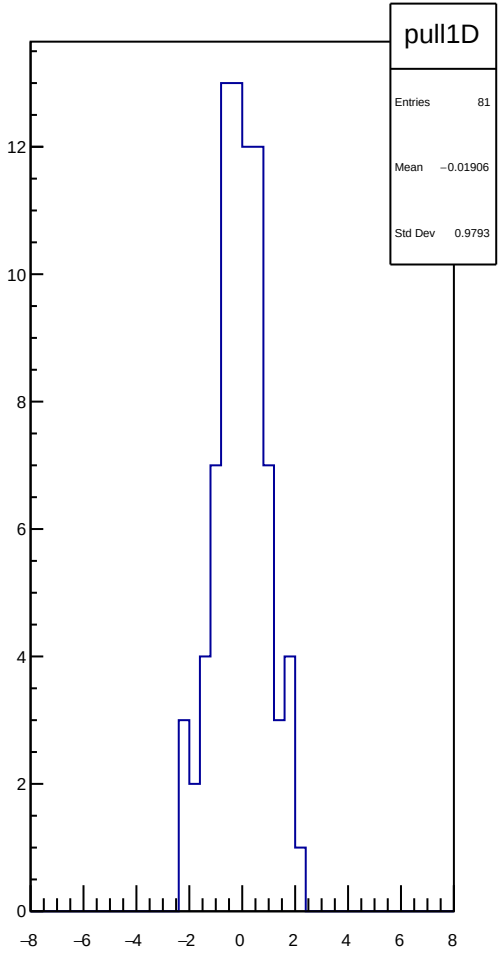

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.534e+04 / 80
p0 172.9 ± 0.1405
240
220
200
180
160
140
120

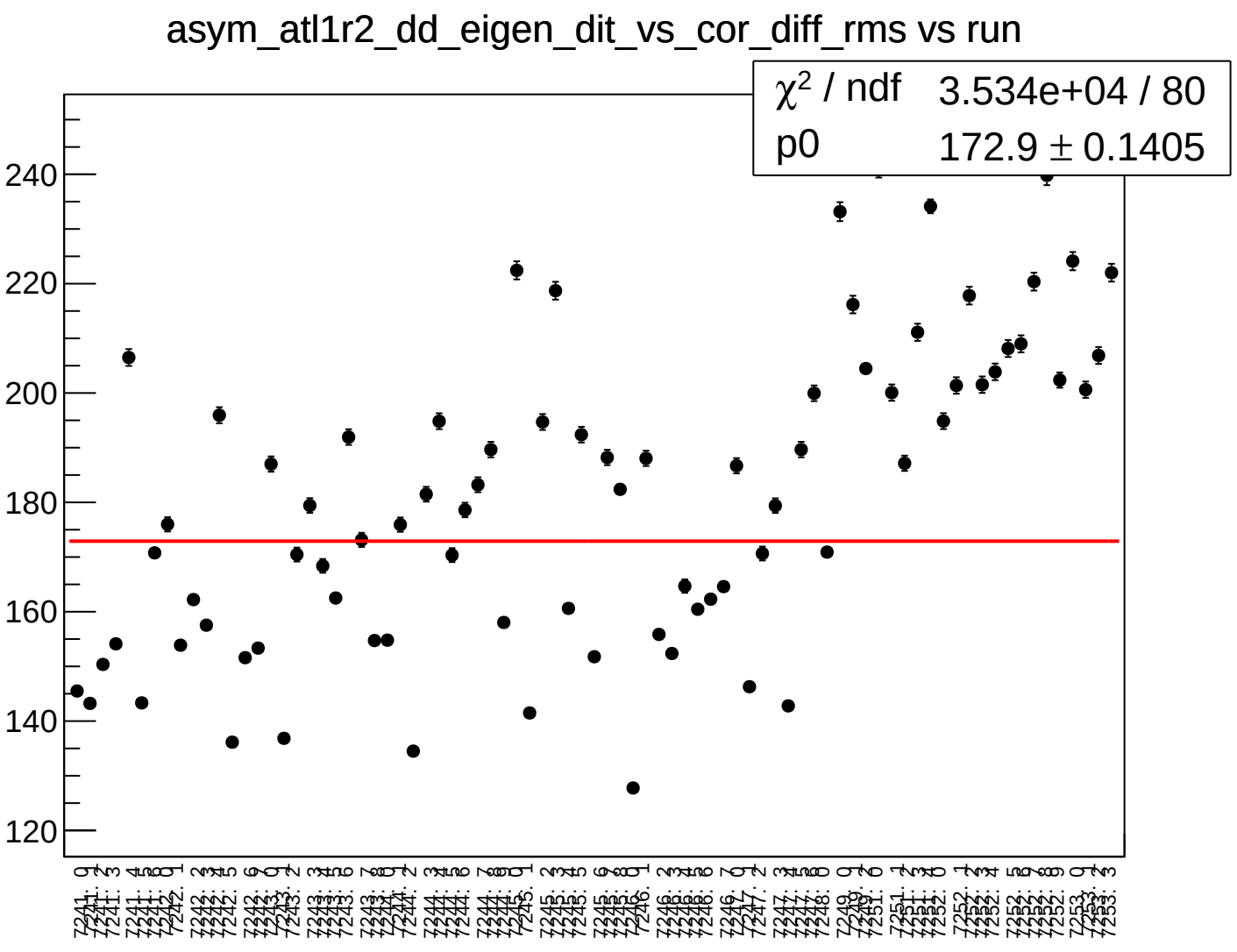

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103 / 80
p0 3.504e−07 ± 1.072e−05
pull
Entries 81
Mean −99.35
Std Dev 0

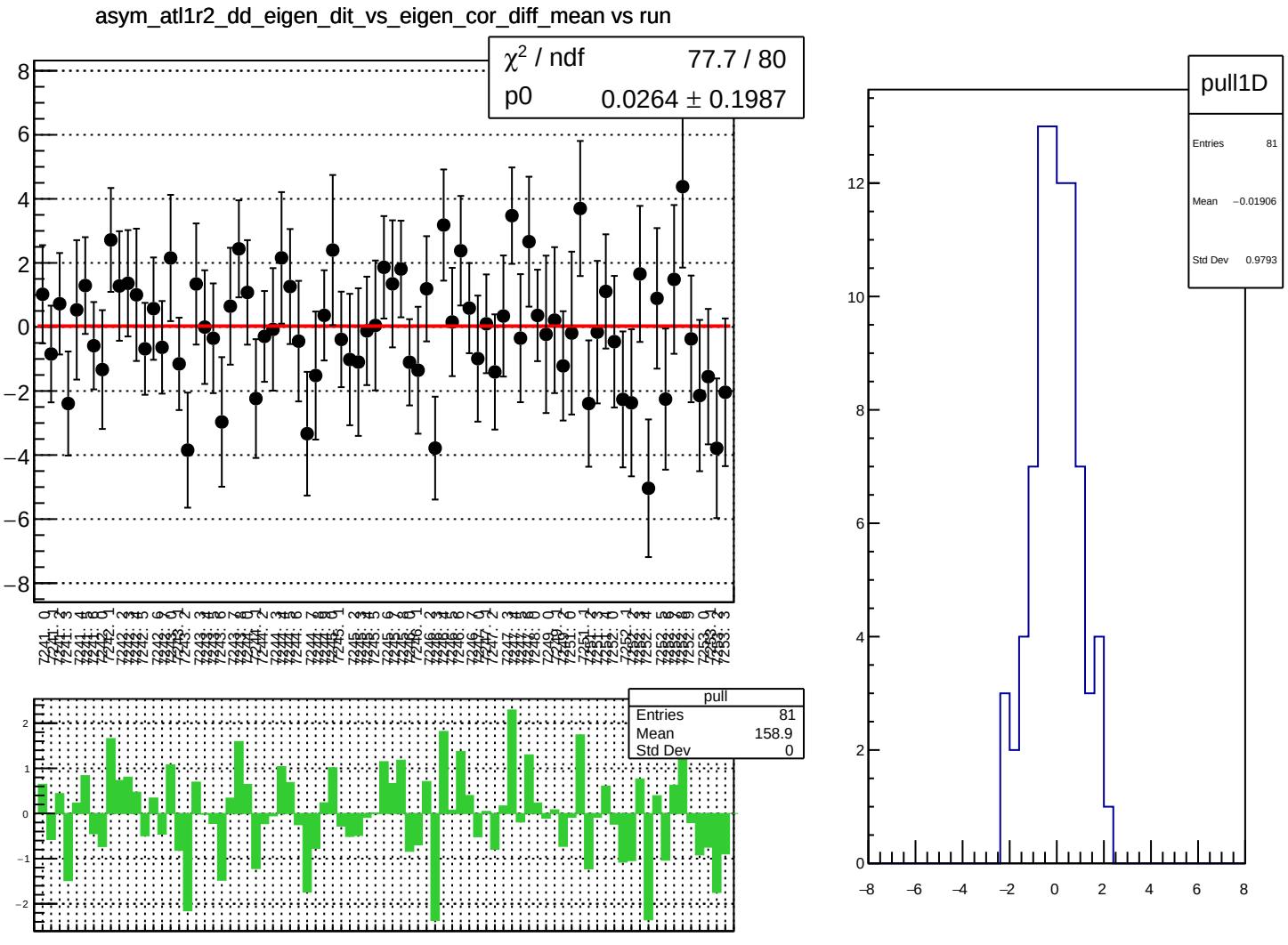

pull1D
Entries 81
Mean −0.02687
Std Dev 1.128

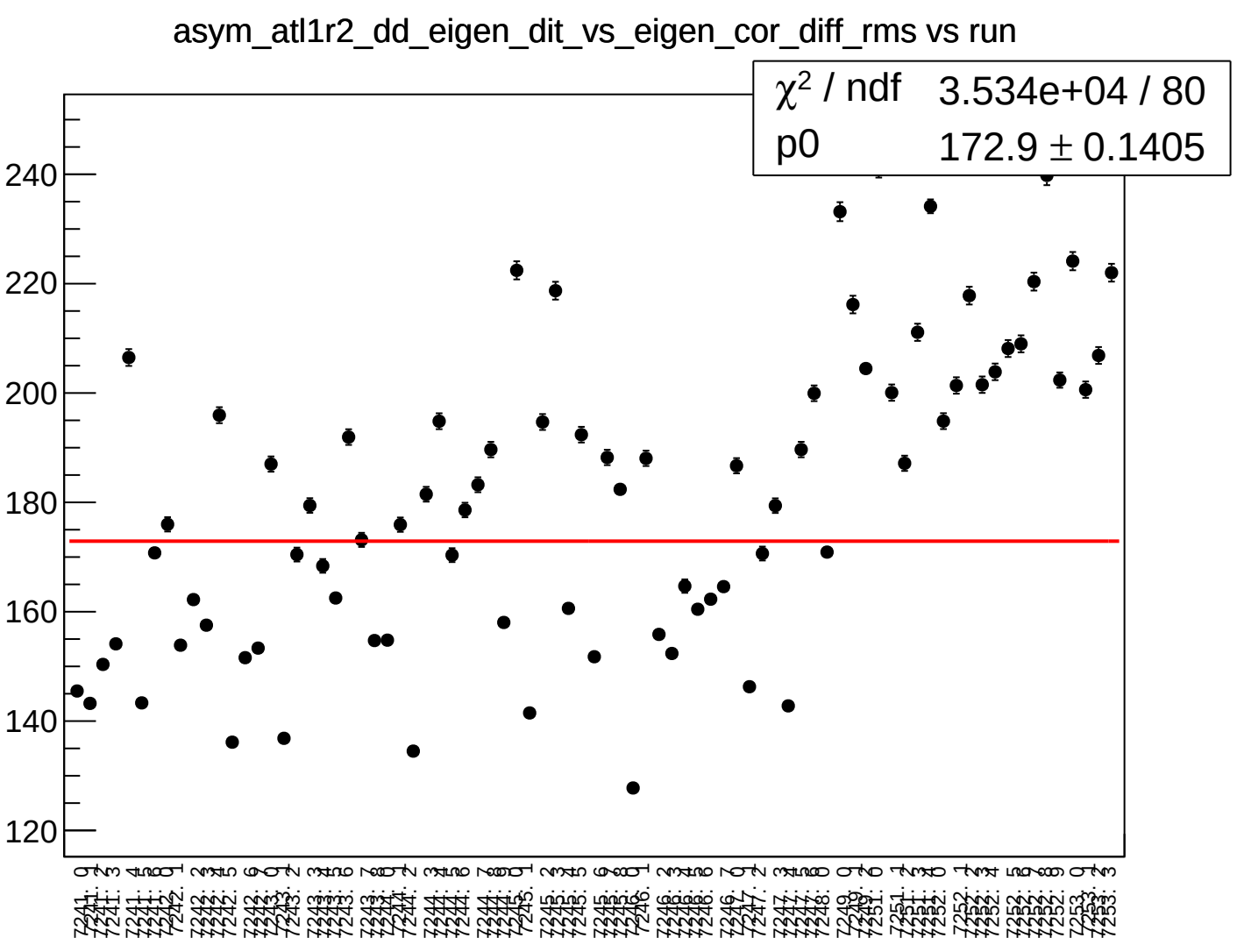

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6941 / 80
p0 0.009412 ± 7.579e−06
0.011
0.0105
0.01
0.0095
0.009
0.0085
0.008

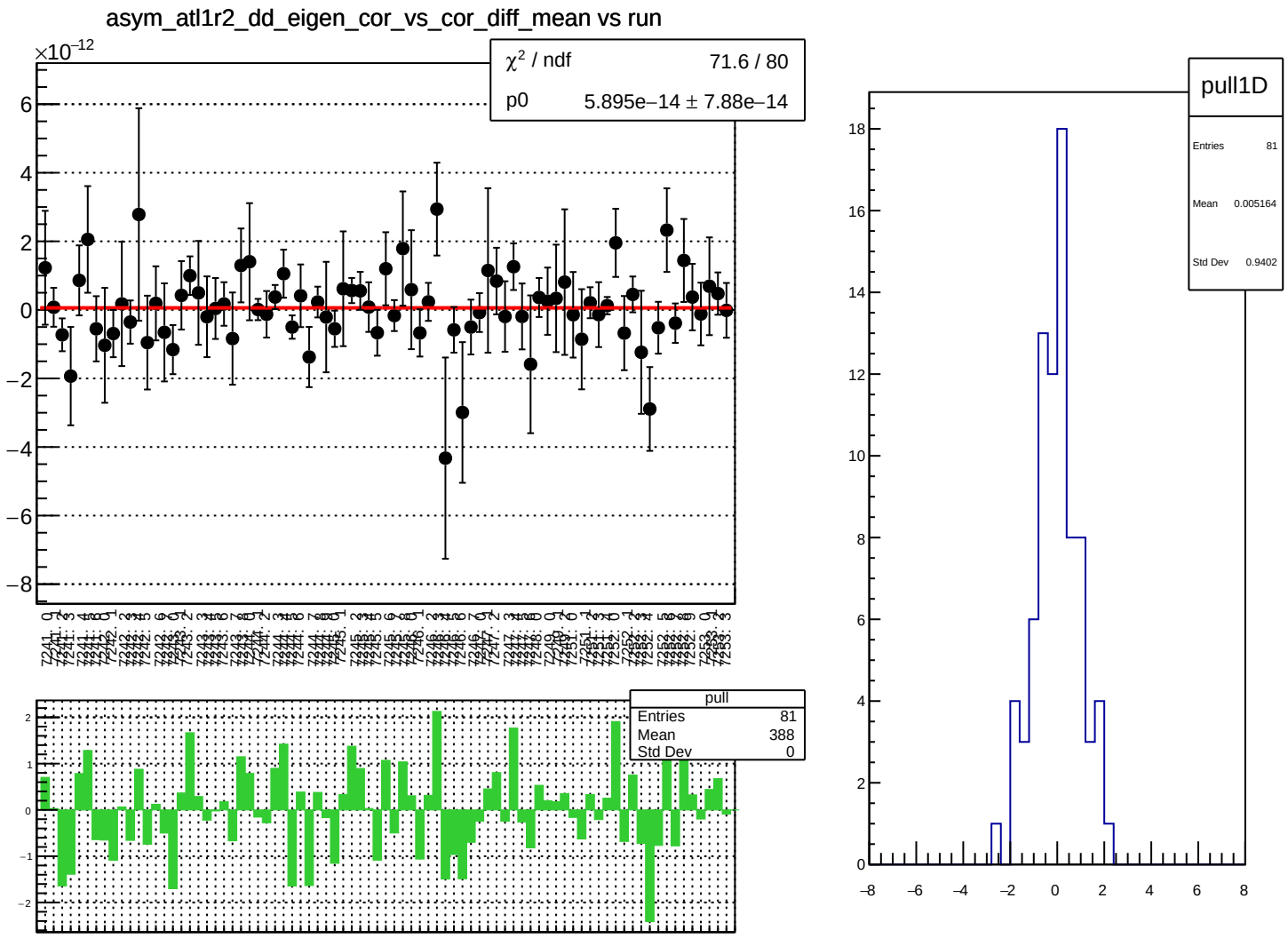

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.7 / 80
p0 0.0264 ± 0.1987
pull
Entries 81
Mean 158.9
Std Dev 0

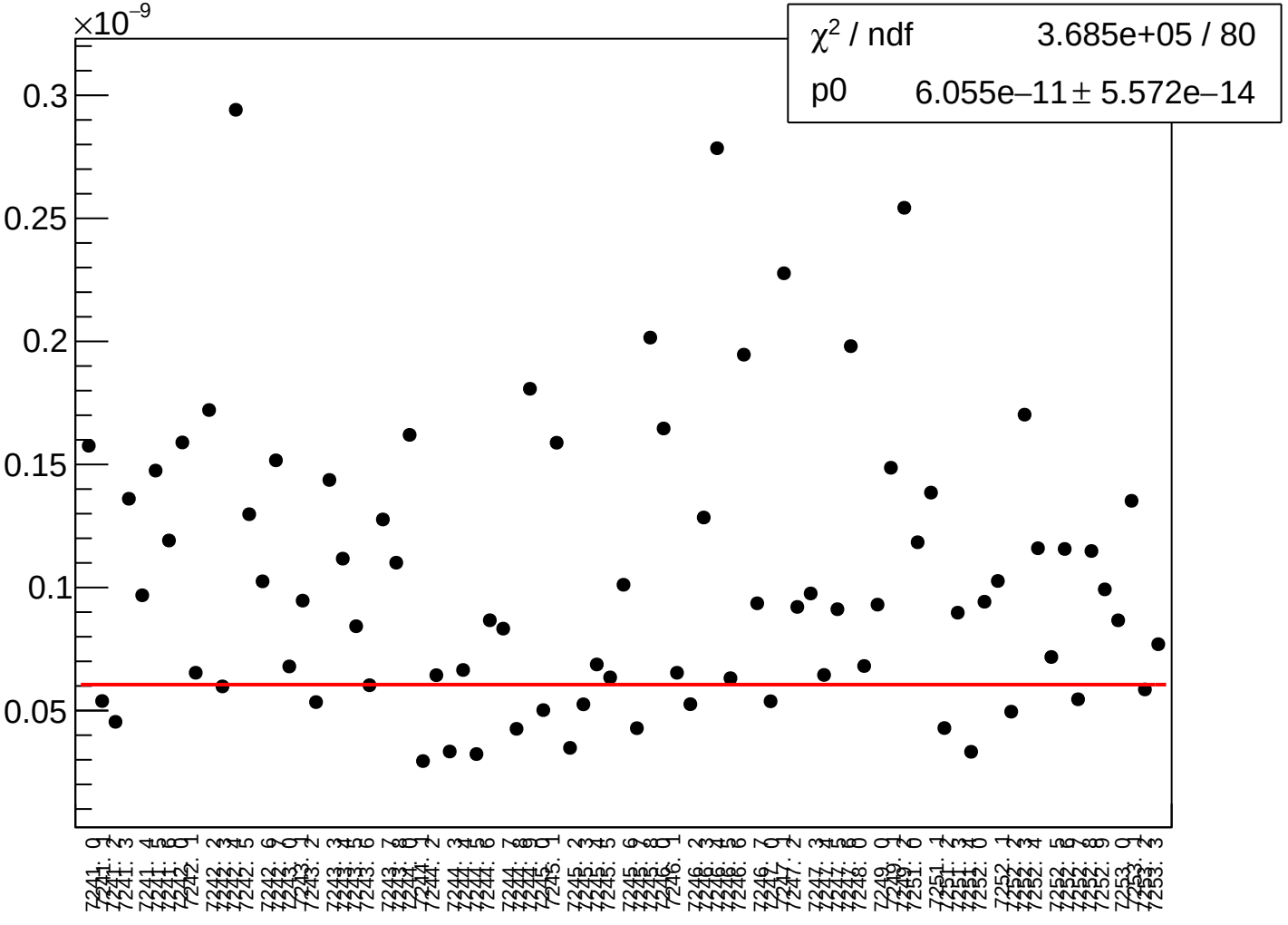

pull1D
Entries 81
Mean −0.01906
Std Dev 0.9793

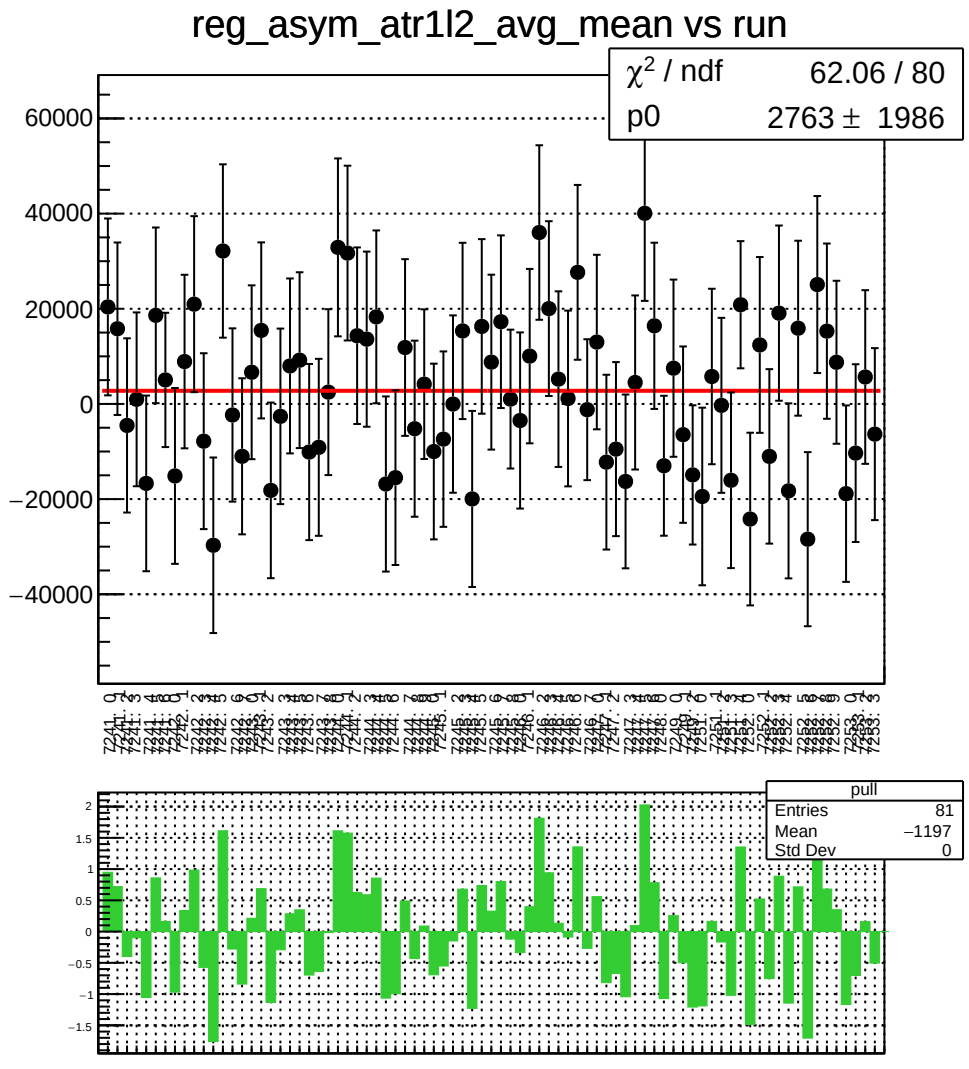

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.534e+04 / 80
p0 172.9 ± 0.1405
240
220
200
180
160
140
120

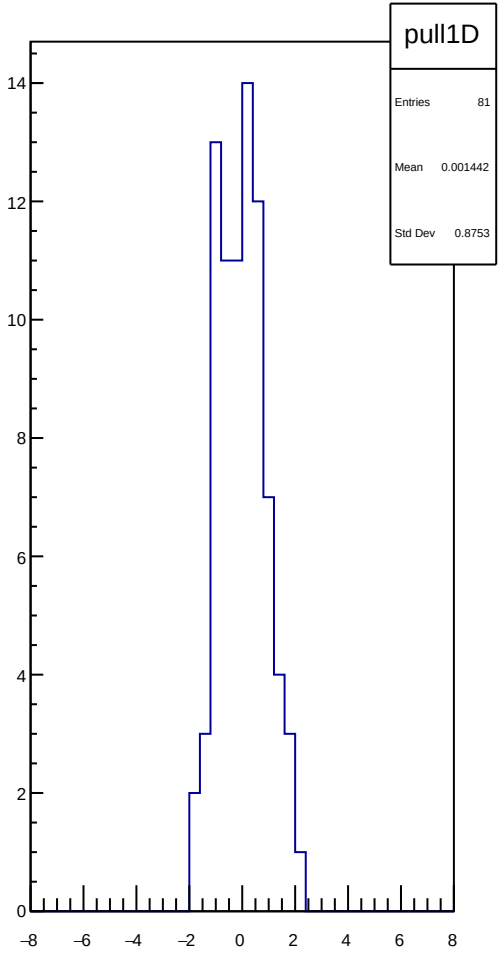

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.7 / 80
p0 0.0264 ± 0.1987
pull
Entries 81
Mean 158.9
Std Dev 0
pull1D
Entries 81
Mean −0.01906
Std Dev 0.9793

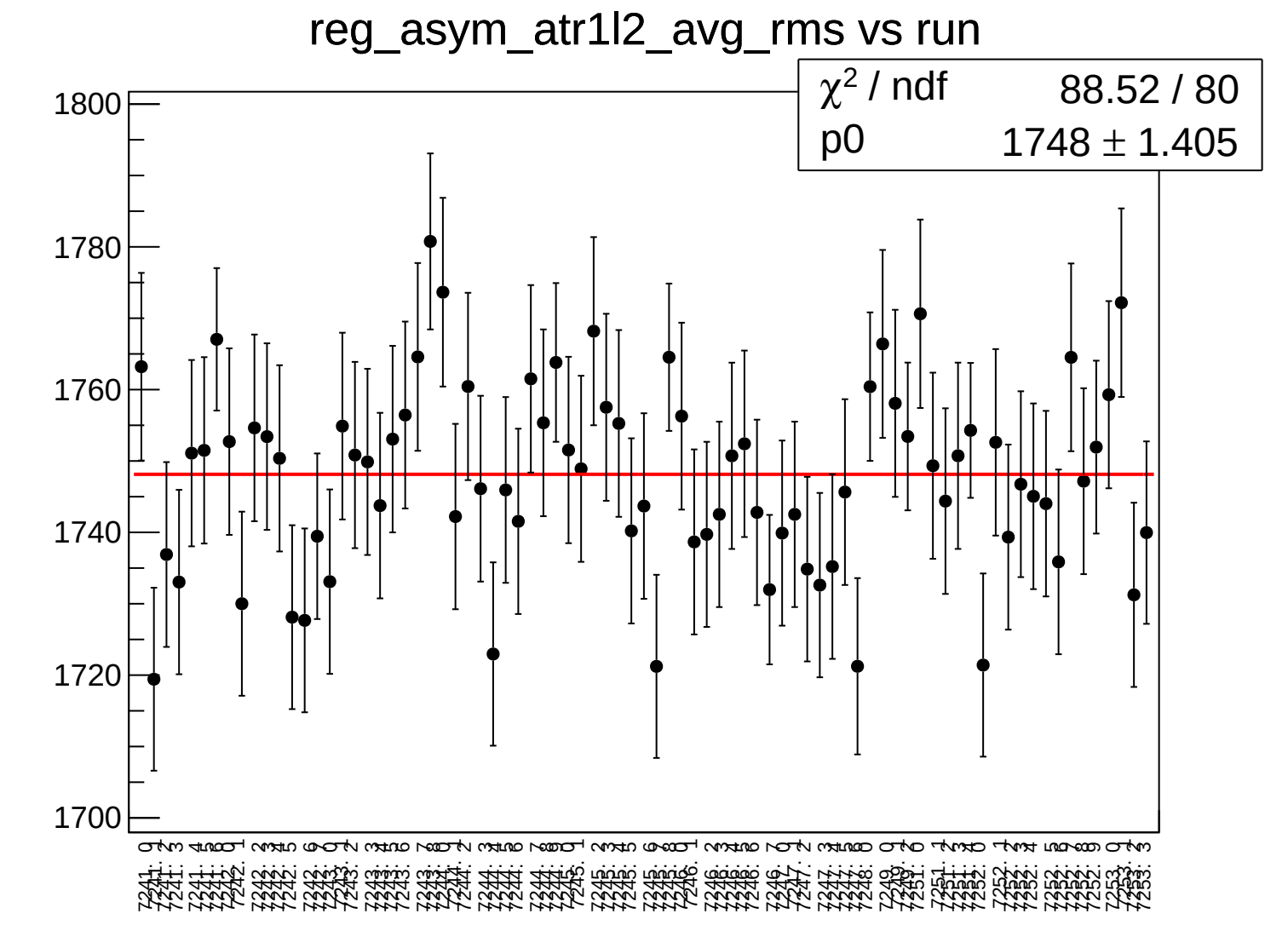

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.534e+04 / 80
p0 172.9 ± 0.1405
240
220
200
180
160
140
120

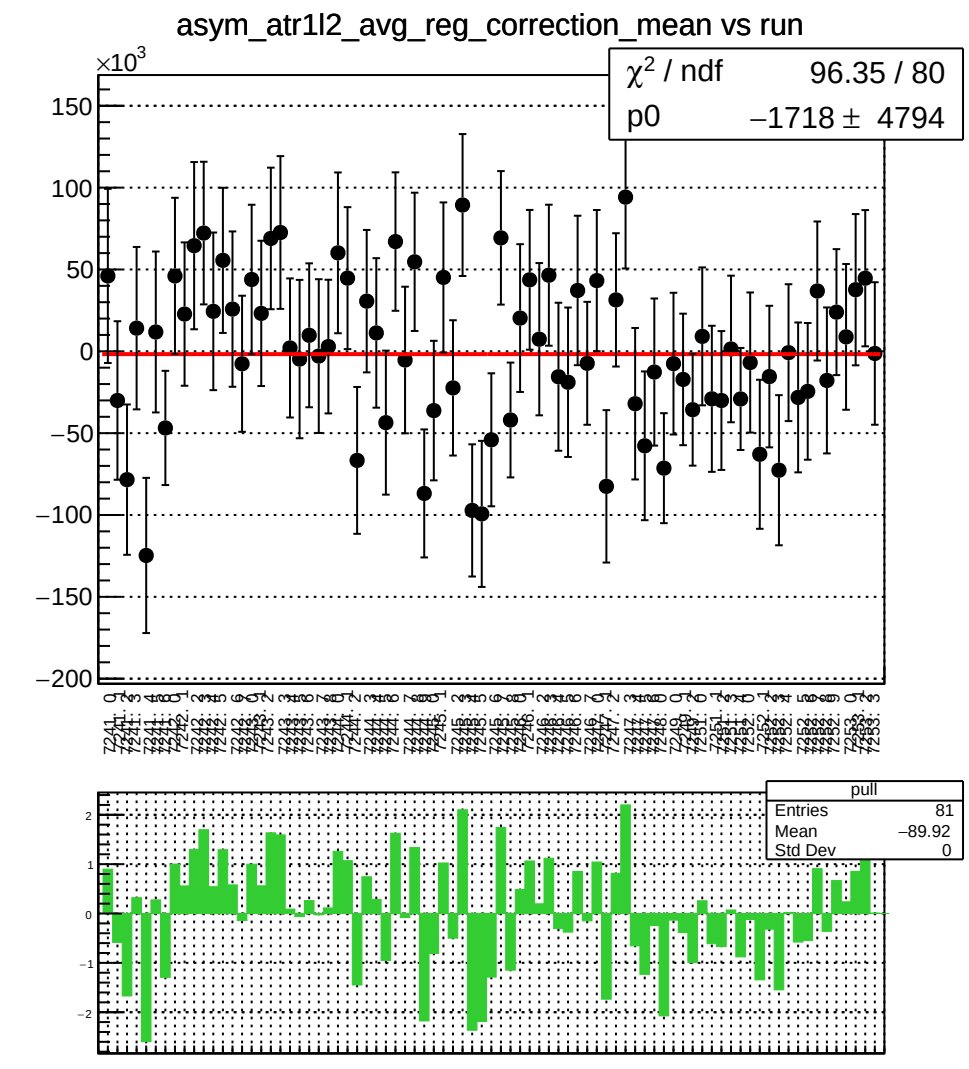

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71.6 / 80
p0 5.895e−14 ± 7.88e−14
pull
Entries 81
Mean 388
Std Dev 0
pull1D
Entries 81
Mean 0.005164
Std Dev 0.9402

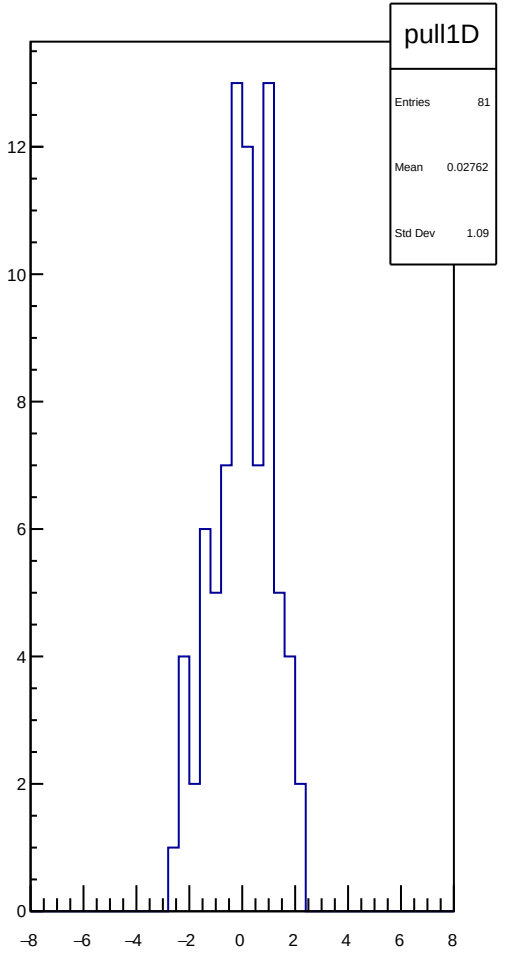

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.685e+05 / 80
p0 6.055e−11 ± 5.572e−14
0.3
0.25
0.2
0.15
0.1
0.05

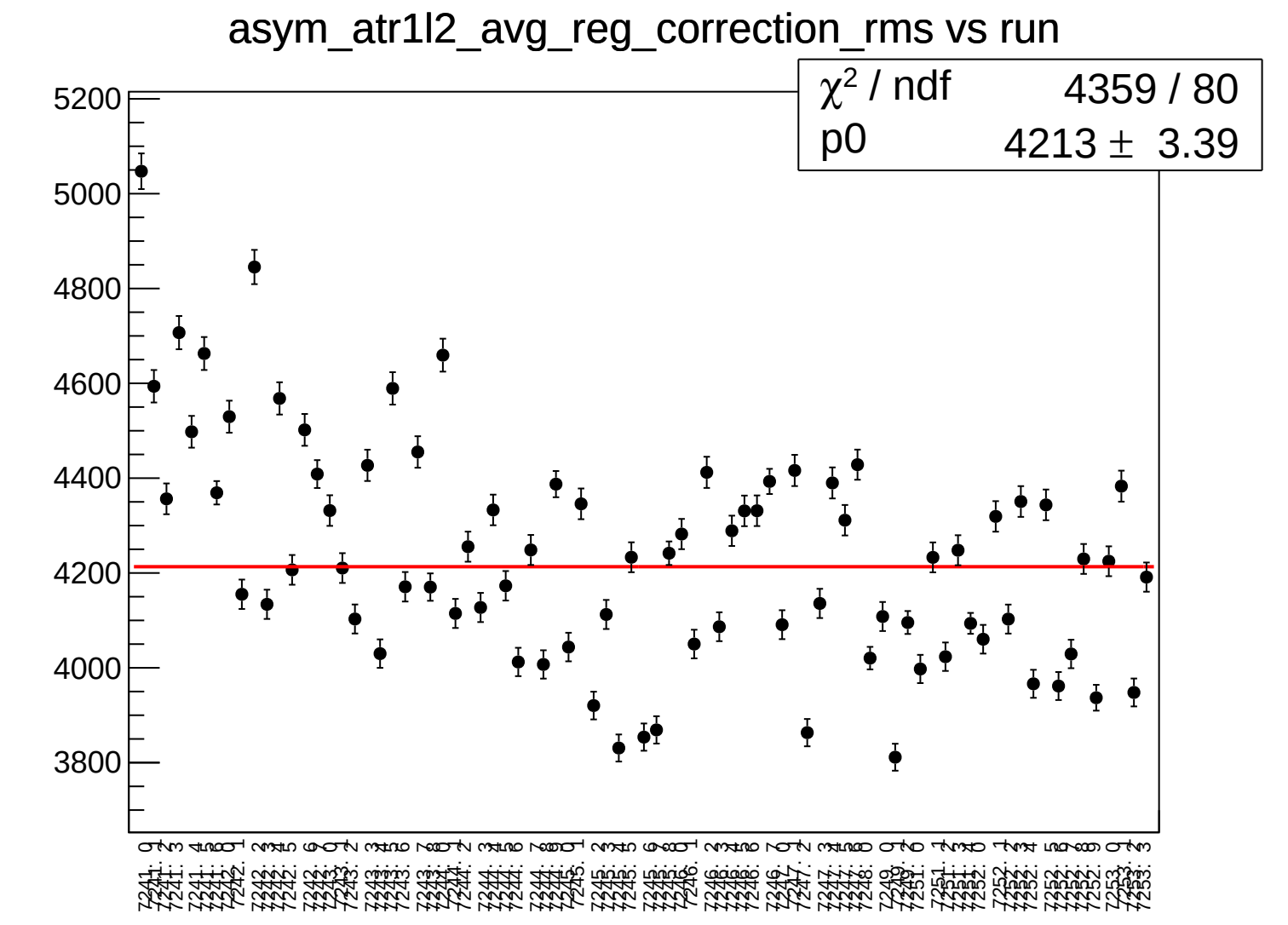

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 62.06 / 80
p0 2763 ± 1986
pull
Entries 81
Mean −1197
Std Dev 0

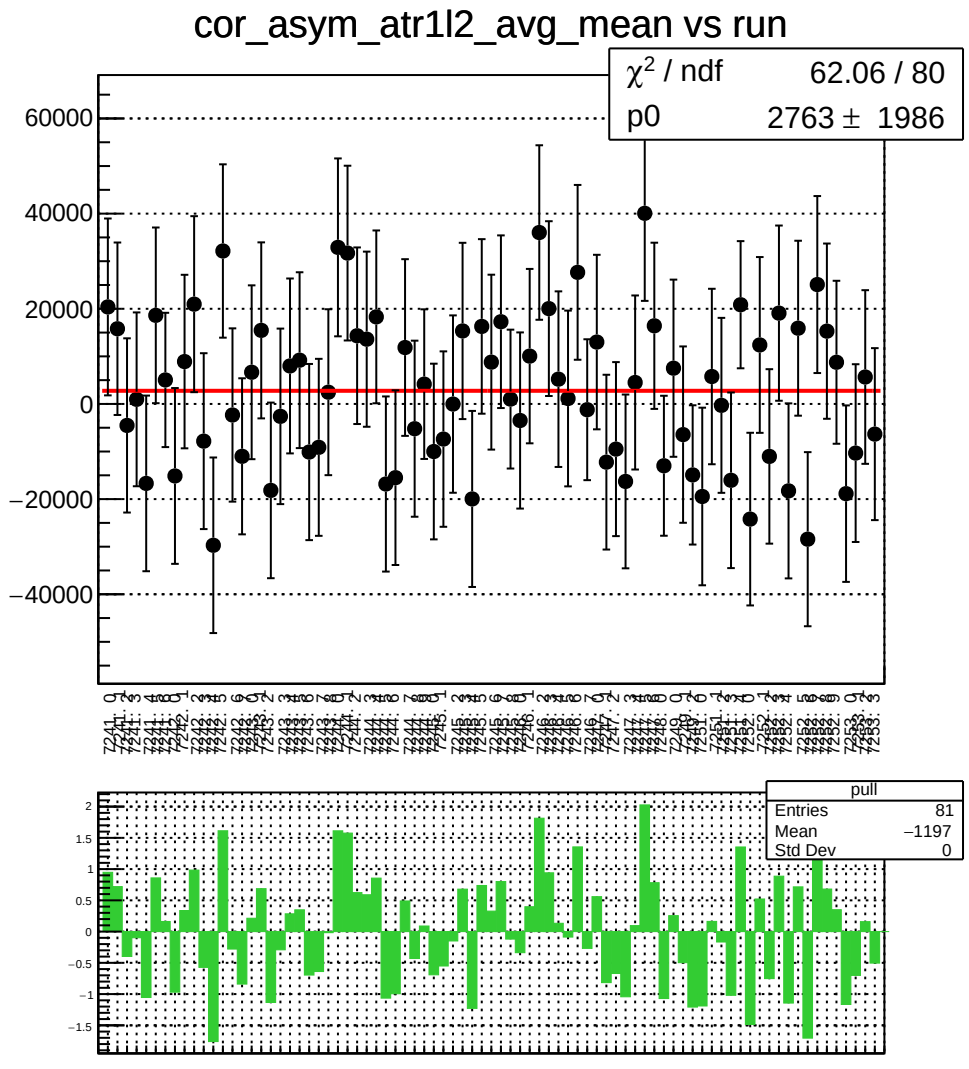

pull1D
Entries 81
Mean 0.001442
Std Dev 0.8753

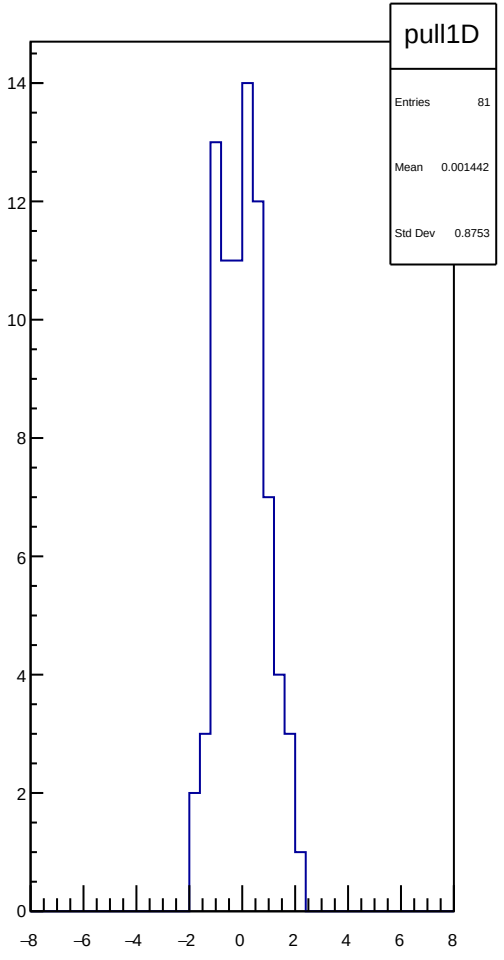

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 88.52 / 80
p0 1748 ± 1.405
1800
1780
1760
1740
1720
1700

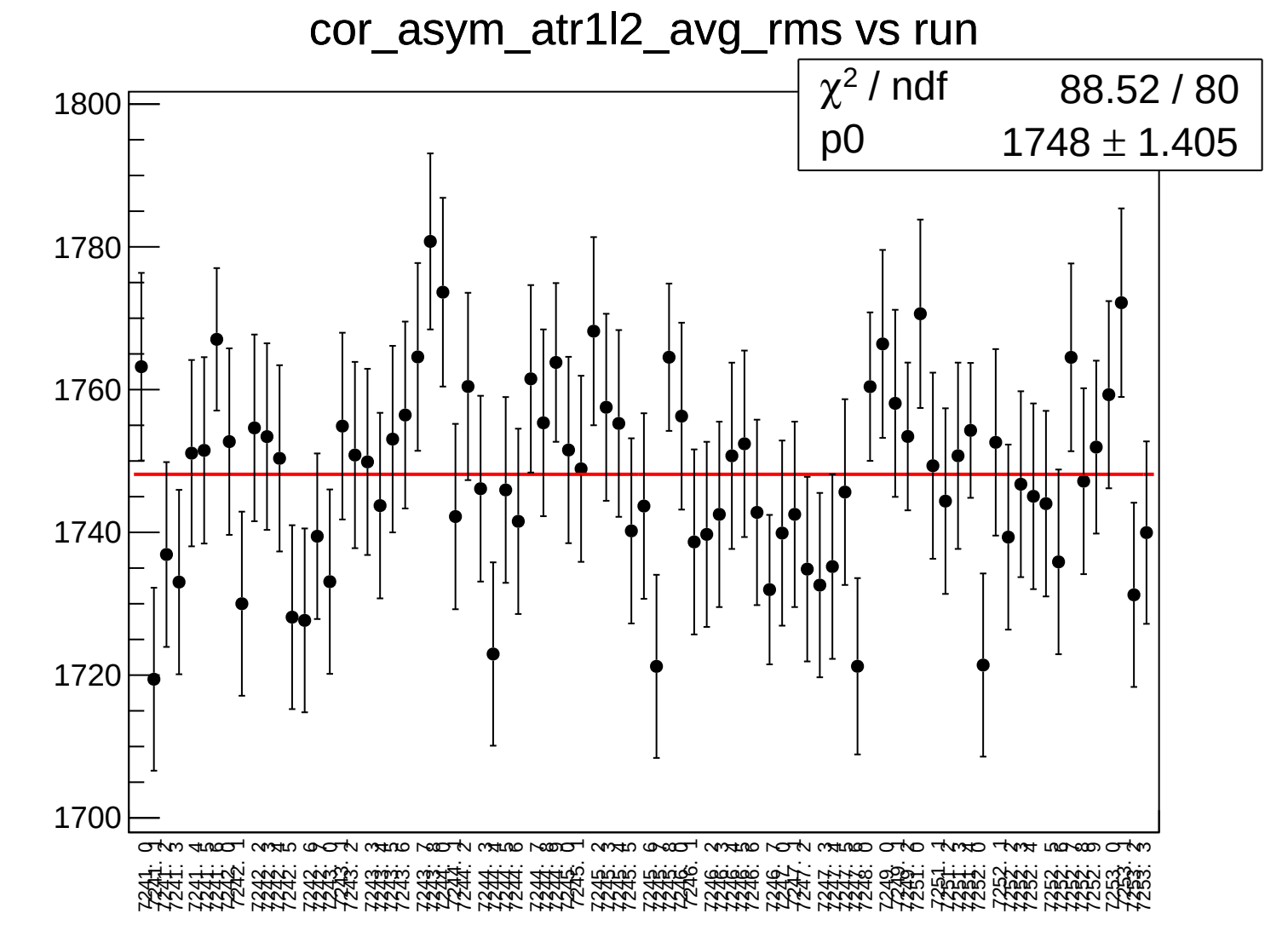

asym_atr1l2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 96.35 / 80
p0 −1718 ± 4794
150
100
50
0
−50
−100
−150
−200
pull
Entries 81
Mean −89.92
Std Dev 0
2
1
0
−1

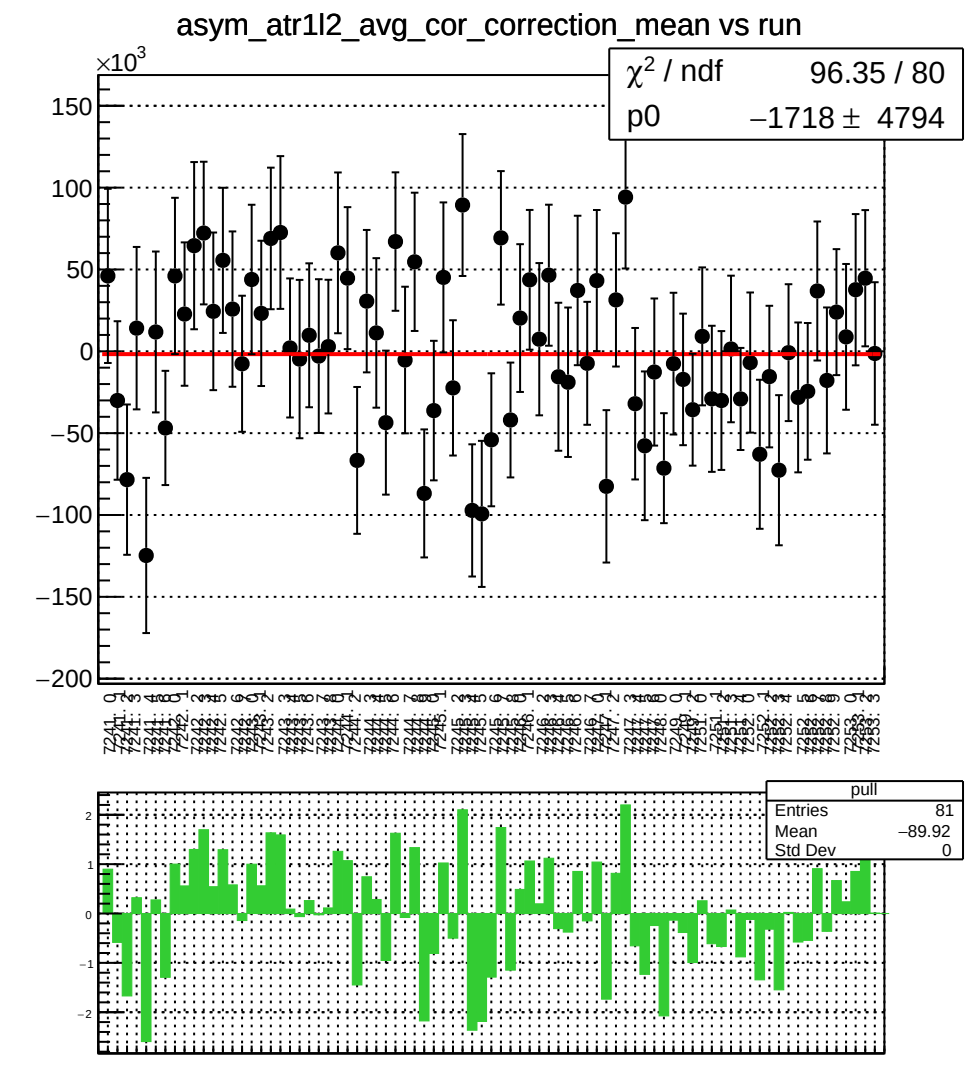

pull1D
Entries 81
Mean 0.02762
Std Dev 1.09
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

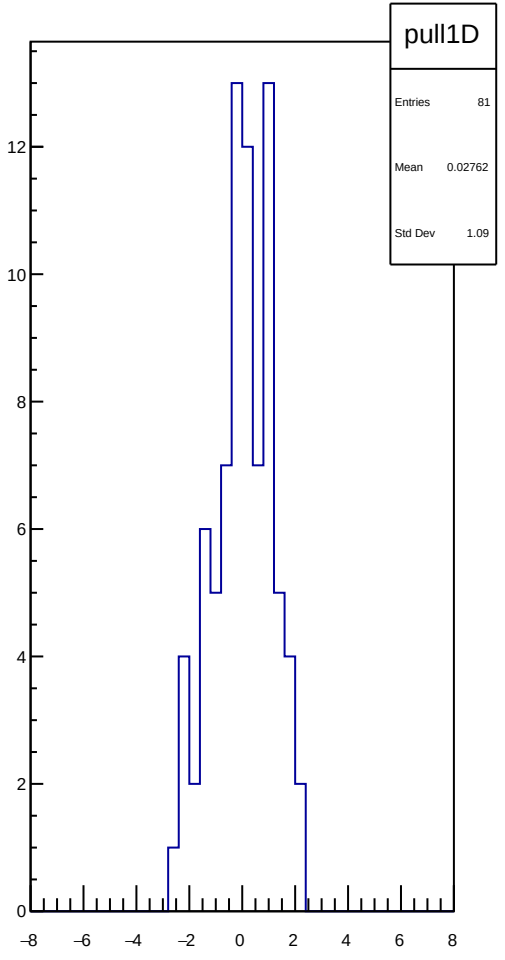

asym_atr1l2_avg_reg_correction_rms vs run
χ² / ndf 4359 / 80
p0 4213 ± 3.39
5200
5000
4800
4600
4400
4200
4000
3800

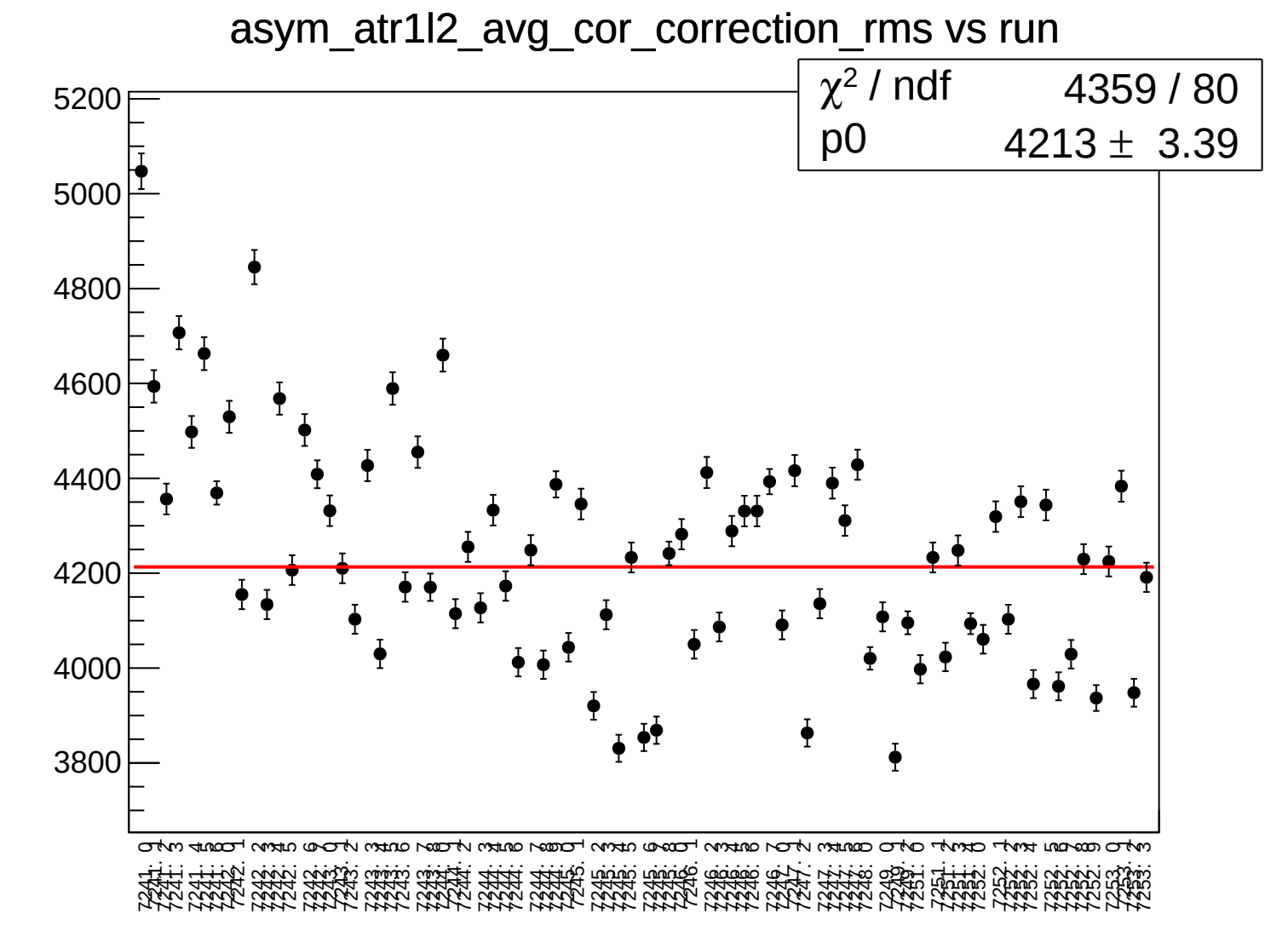

cor_asym_atr1l2_avg_mean vs run
χ² / ndf 62.06 / 80
p0 2763 ± 1986
pull
Entries 81
Mean −1197
Std Dev 0

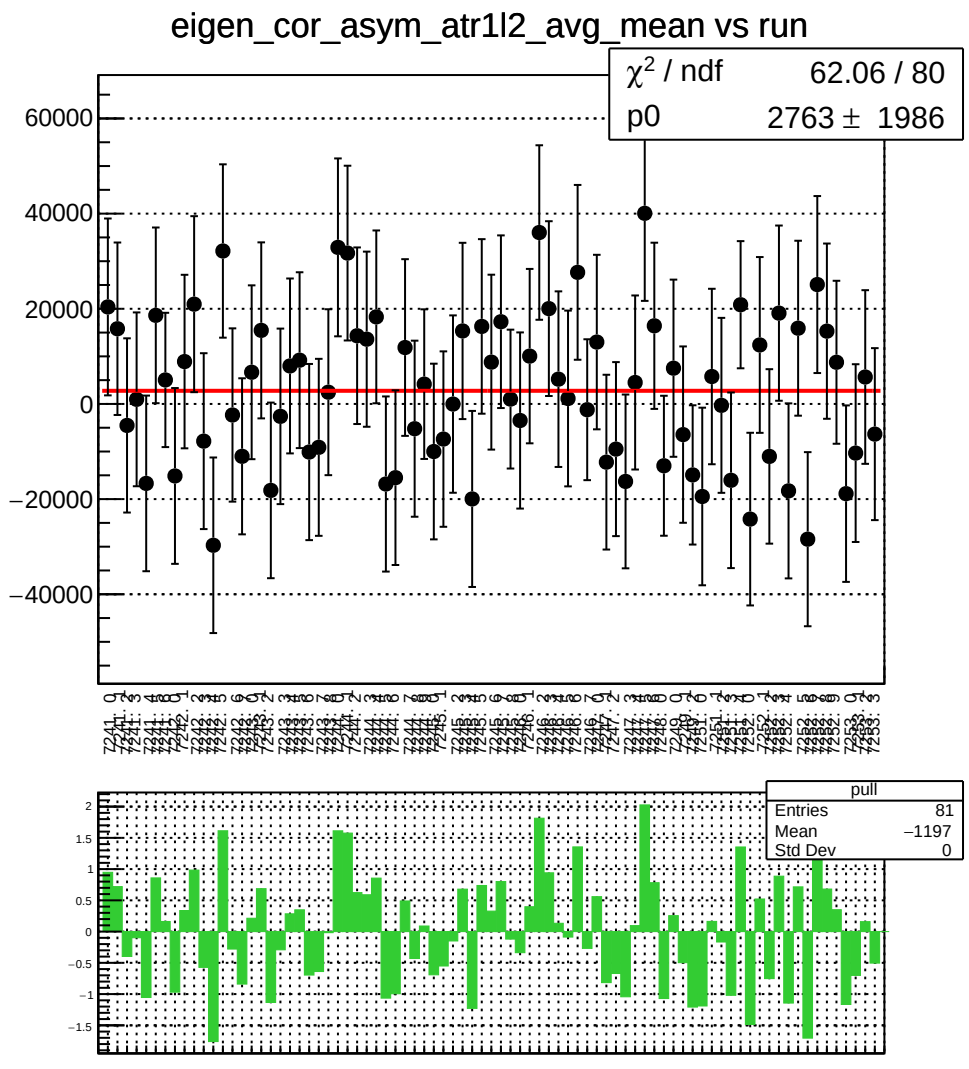

pull1D
Entries 81
Mean 0.001442
Std Dev 0.8753

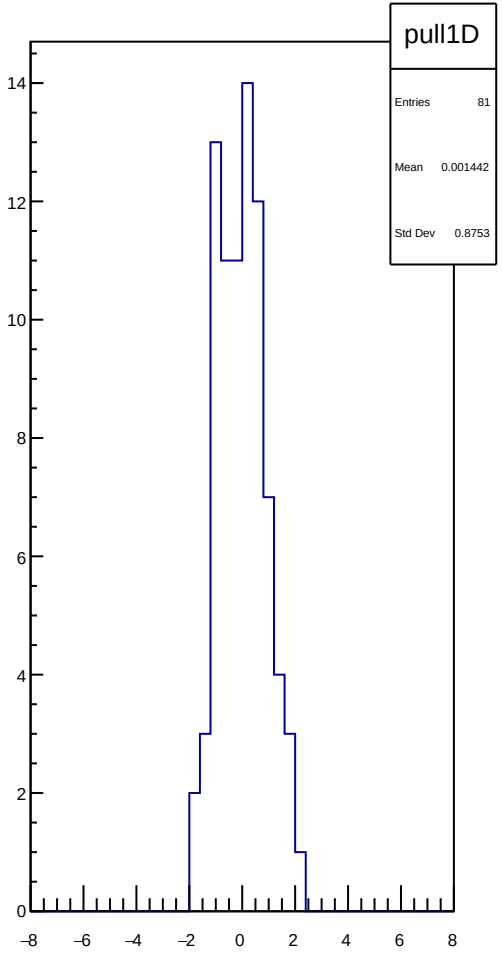

cor_asym_atr1l2_avg_rms vs run
χ² / ndf 88.52 / 80
p0 1748 ± 1.405
1800
1780
1760
1740
1720
1700

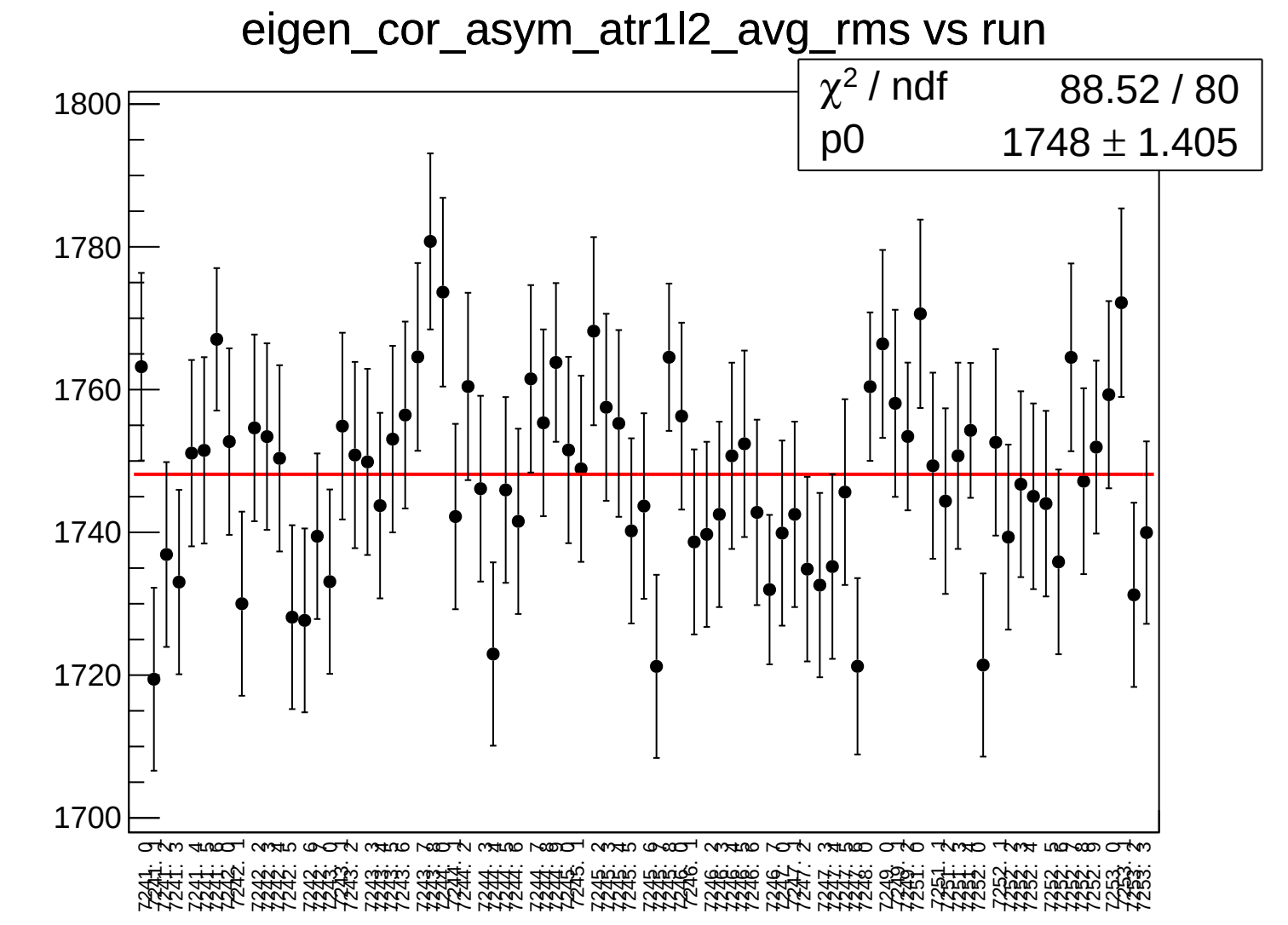

asym_atr1l2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 96.35 / 80
p0 −1718 ± 4794
150
100
50
0
−50
−100
−150
−200
pull
Entries 81
Mean −89.92
Std Dev 0
2
1
0
−1

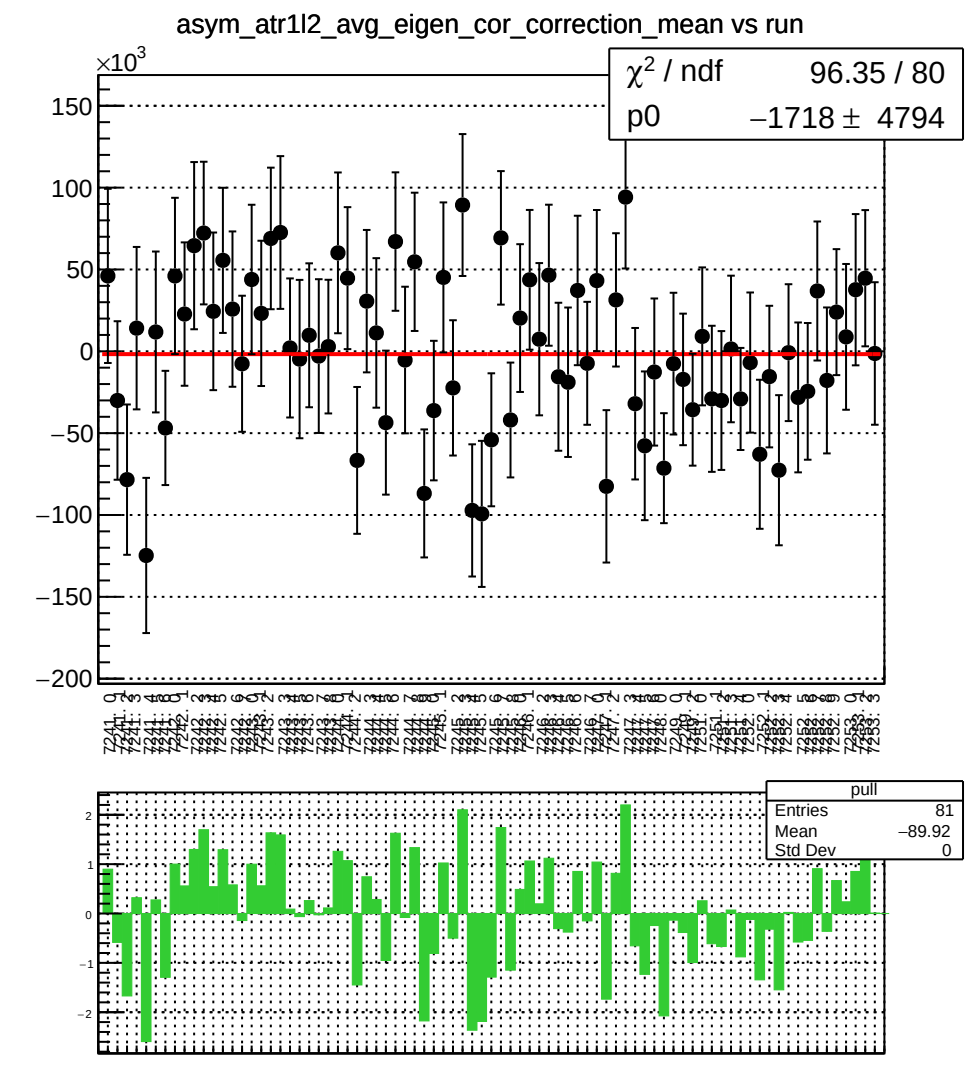

pull1D
Entries 81
Mean 0.02762
Std Dev 1.09
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

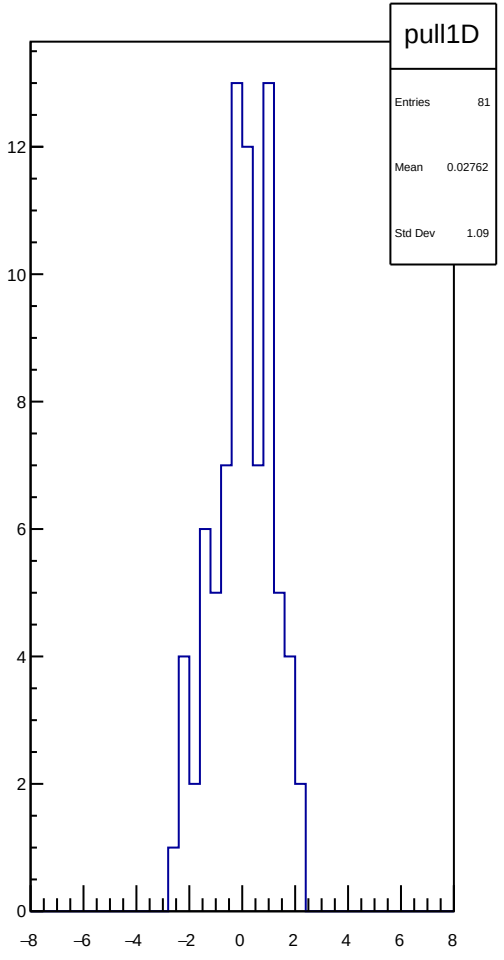

asym_atr1l2_avg_cor_correction_rms vs run
χ² / ndf 4359 / 80
p0 4213 ± 3.39
5200
5000
4800
4600
4400
4200
4000
3800

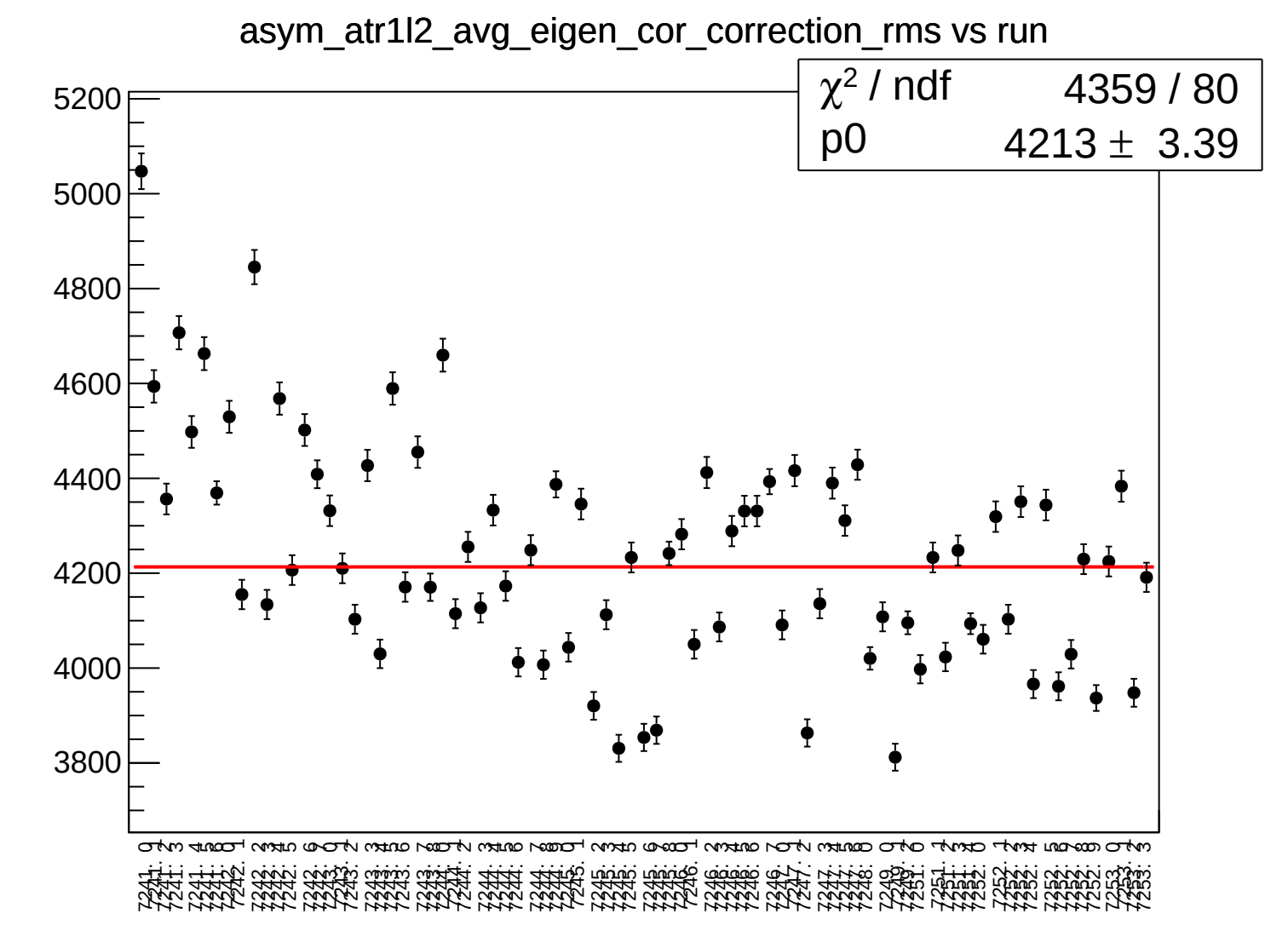

eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 62.06 / 80
p0 2763 ± 1986
60000
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −1197
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

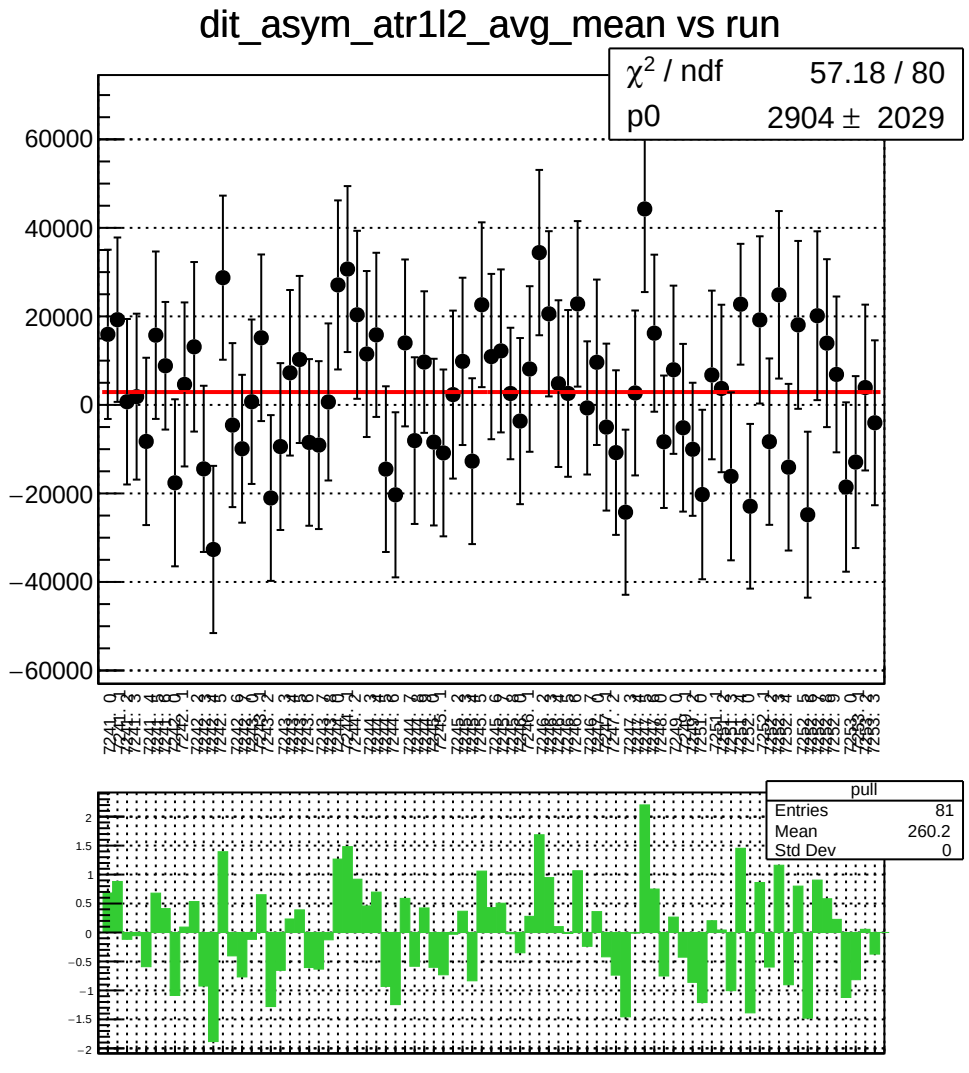

pull1D
Entries 81
Mean 0.001442
Std Dev 0.8753
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

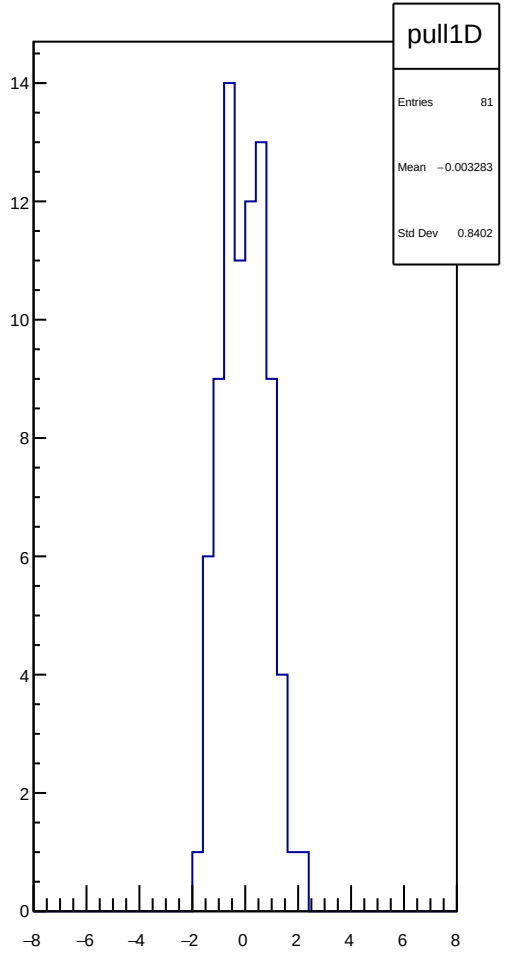

eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 88.52 / 80
p0 1748 ± 1.405
1800
1780
1760
1740
1720
1700

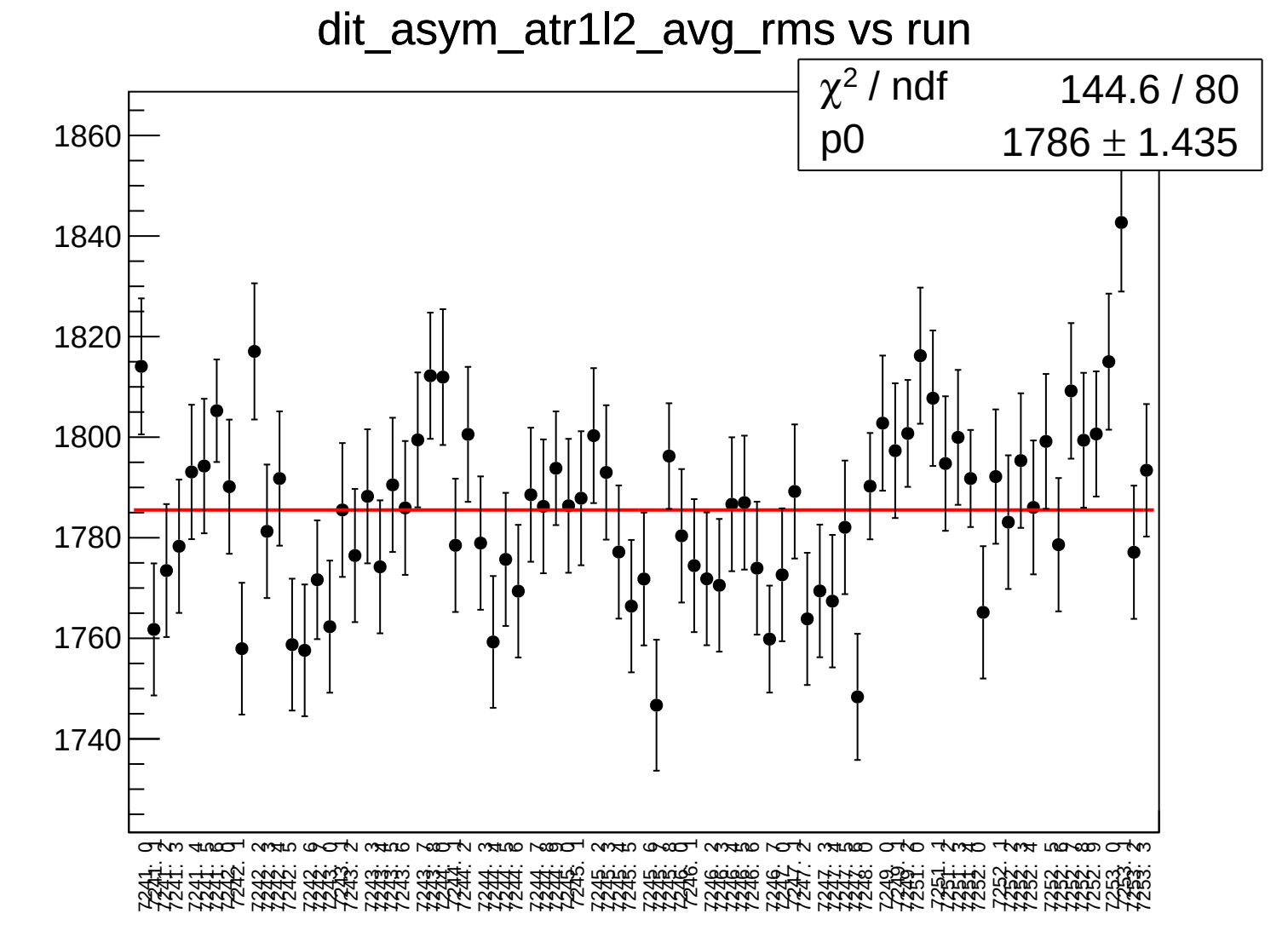

asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 96.35 / 80
p0 −1718 ± 4794
150
100
50
0
−50
−100
−150
−200
pull
Entries 81
Mean −89.92
Std Dev 0
2
1
0
−1
−2

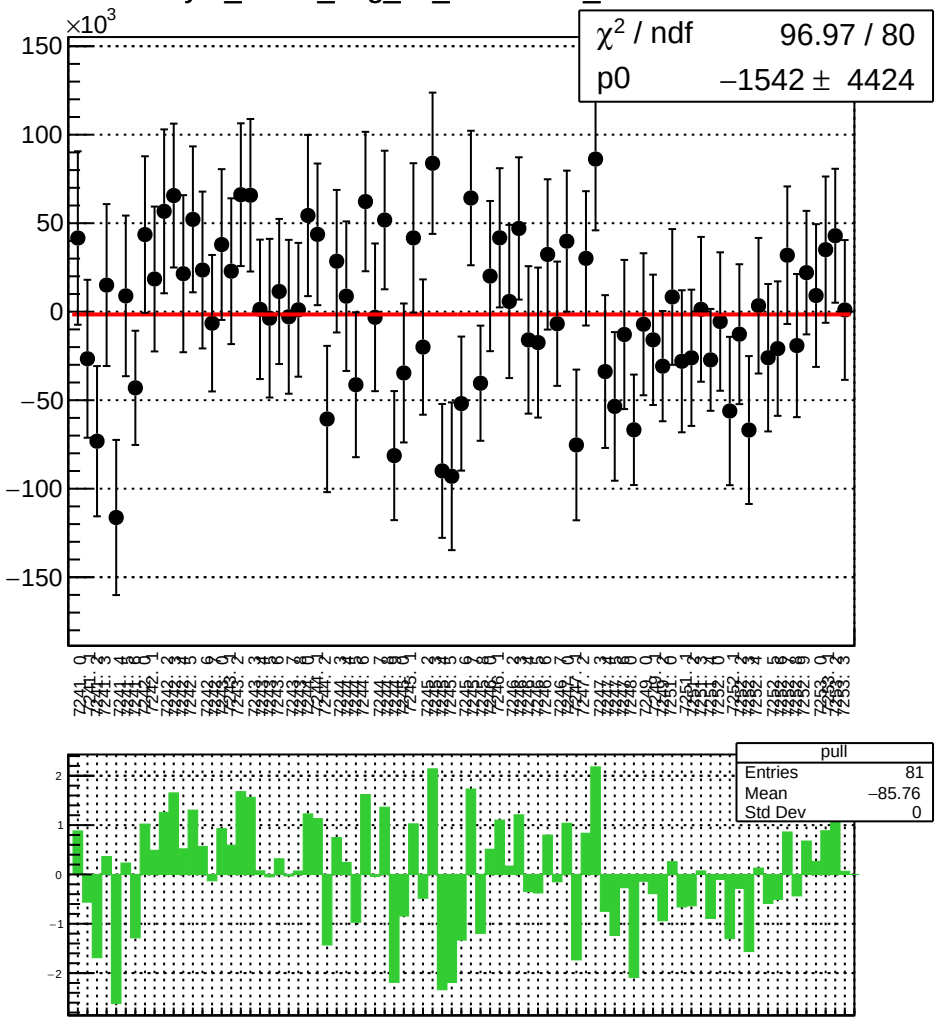

pull1D
Entries 81
Mean 0.02762
Std Dev 1.09
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

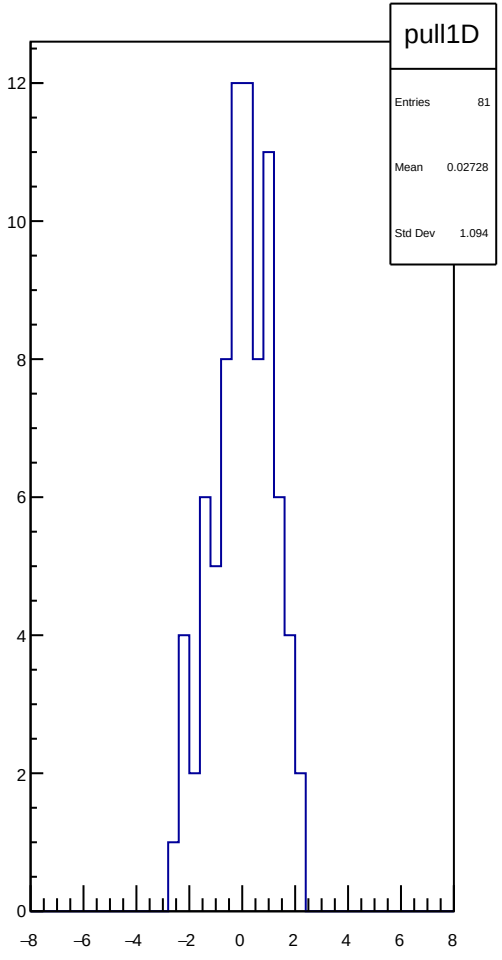

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ² / ndf 4359 / 80
p0 4213 ± 3.39
5200
5000
4800
4600
4400
4200
4000
3800

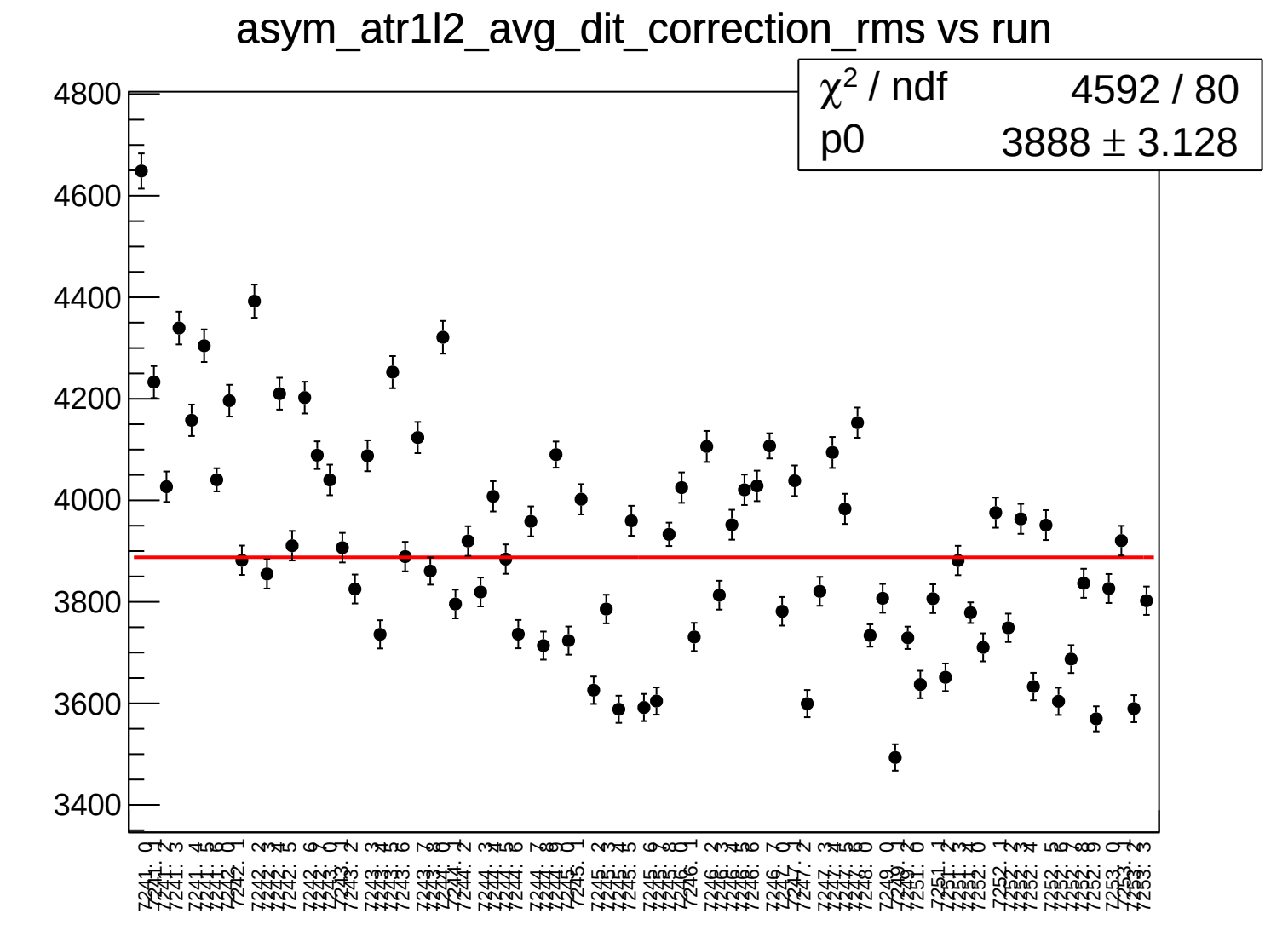

dit_asym_atr1l2_avg_mean vs run
χ² / ndf 57.18 / 80
p0 2904 ± 2029
pull
Entries 81
Mean 260.2
Std Dev 0

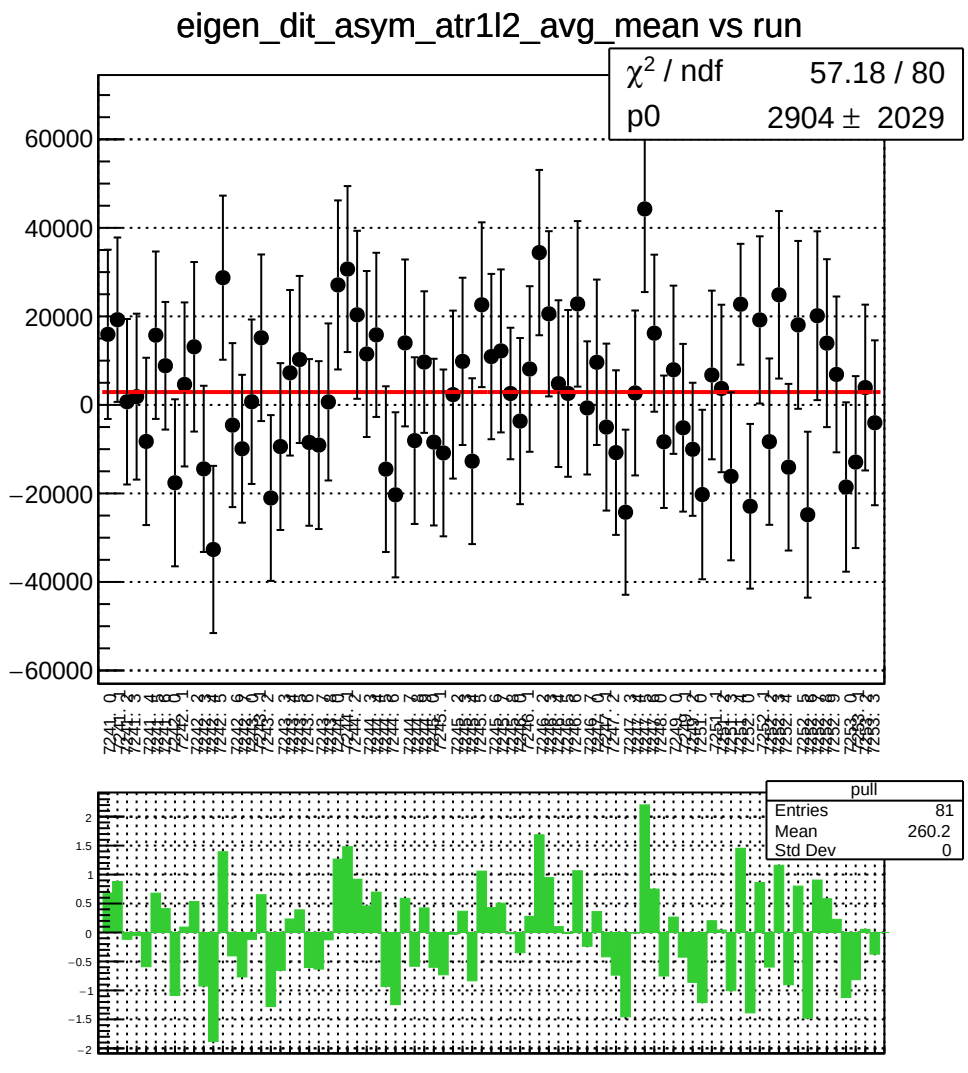

pull1D
Entries 81
Mean −0.003283
Std Dev 0.8402

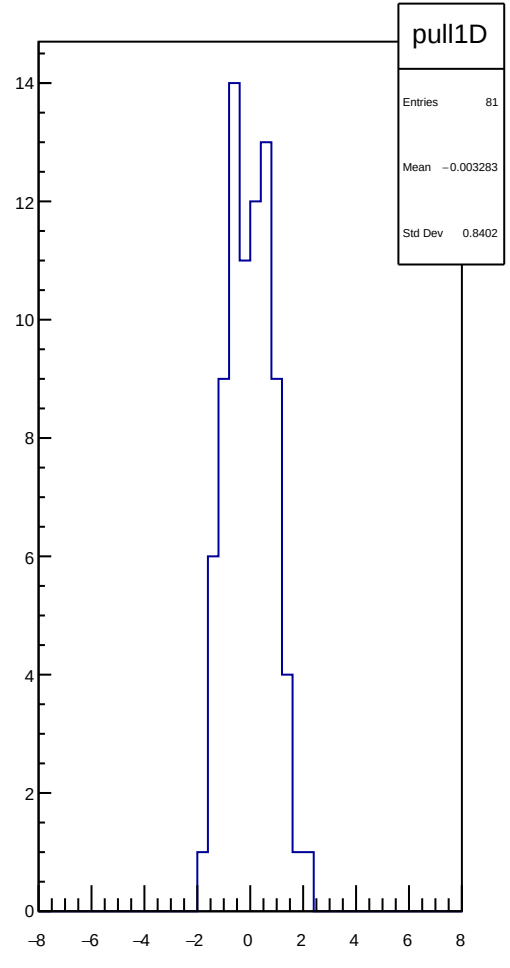

dit_asym_atr1l2_avg_rms vs run
χ² / ndf 144.6 / 80
p0 1786 ± 1.435
1860
1840
1820
1800
1780
1760
1740

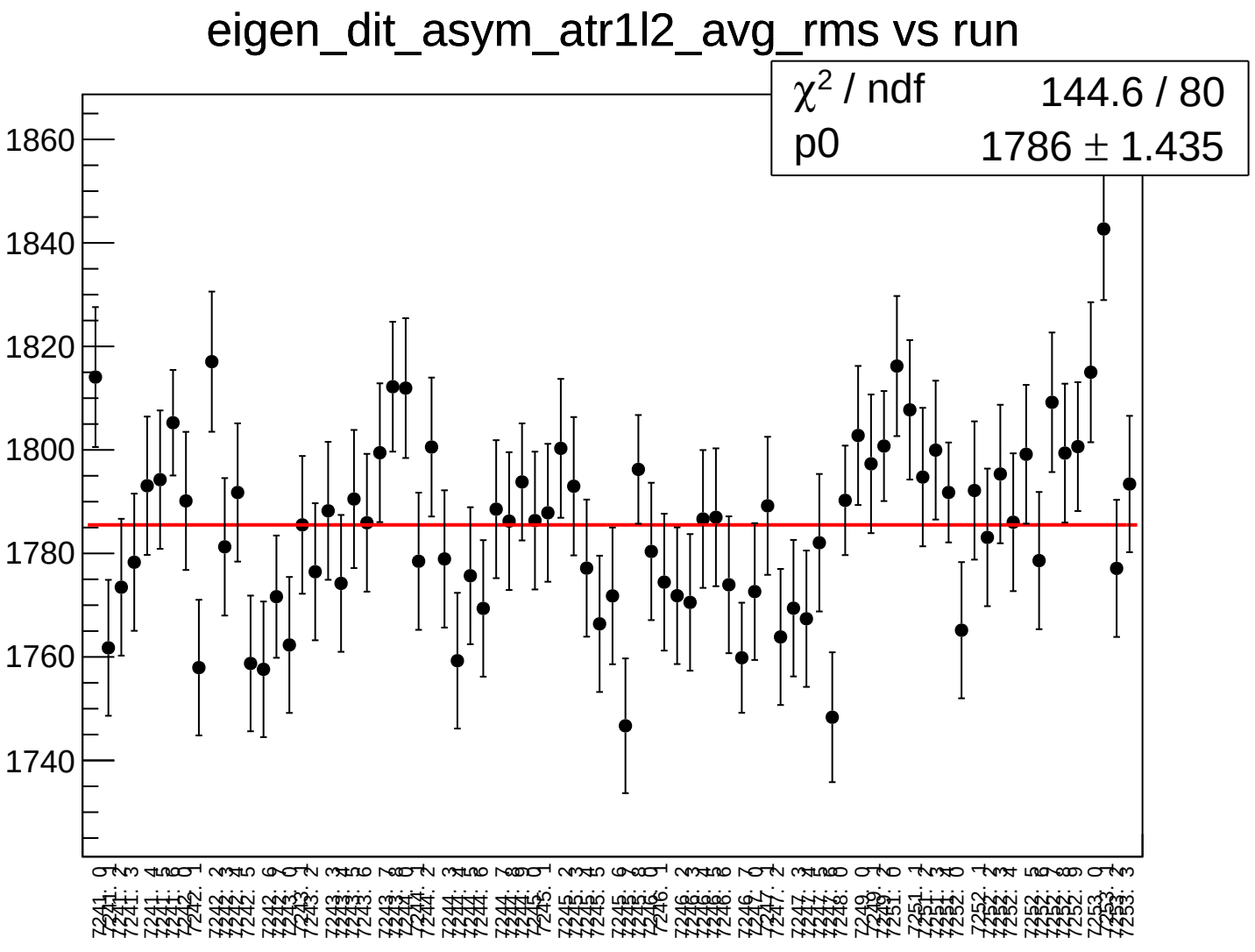

asym_atr1l2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 96.97 / 80
p0 −1542 ± 4424
pull
Entries 81
Mean −85.76
Std Dev 0

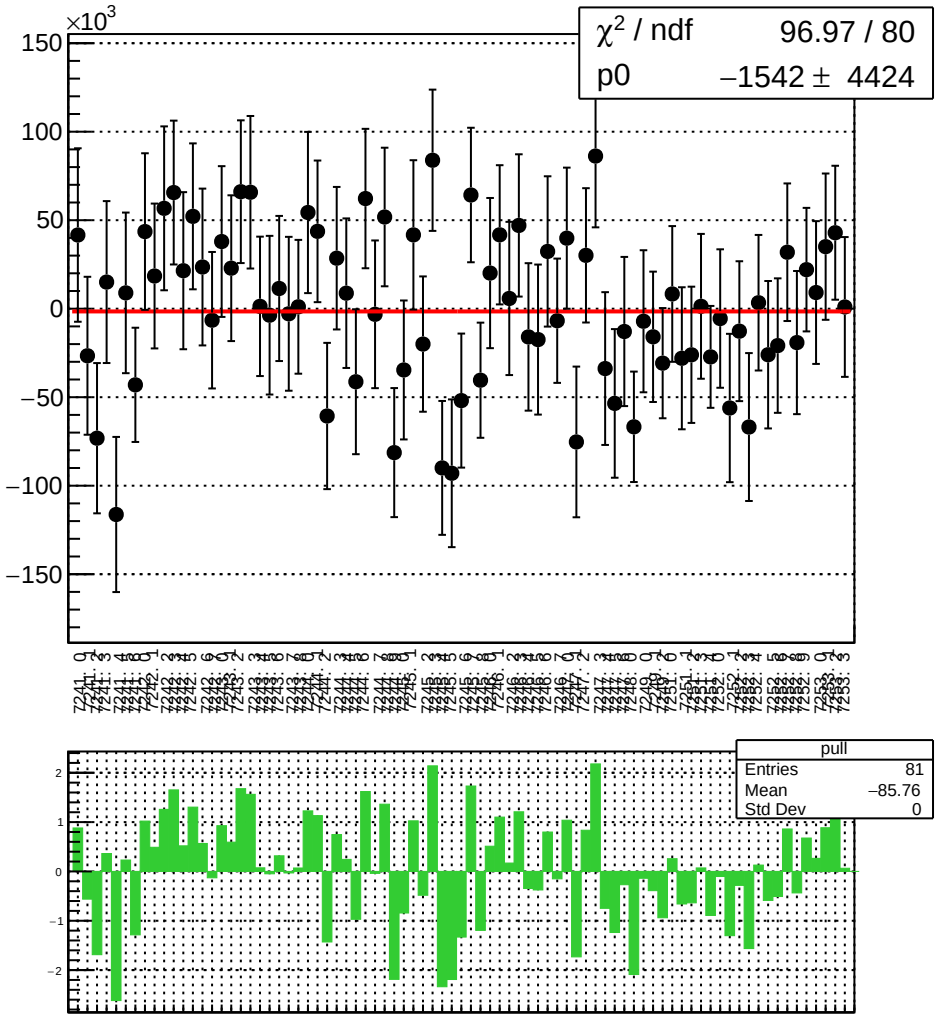

pull1D
Entries 81
Mean 0.02728
Std Dev 1.094

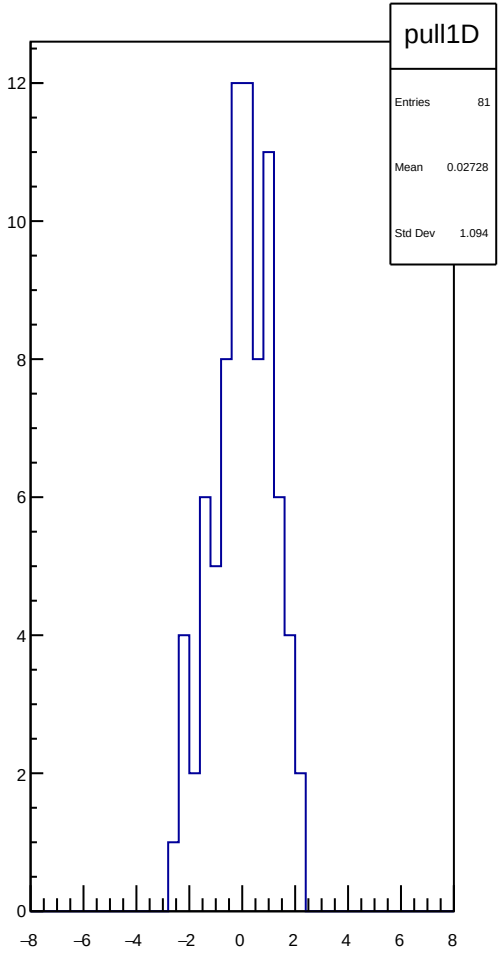

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 4592 / 80
p0 3888 ± 3.128
4800
4600
4400
4200
4000
3800
3600
3400

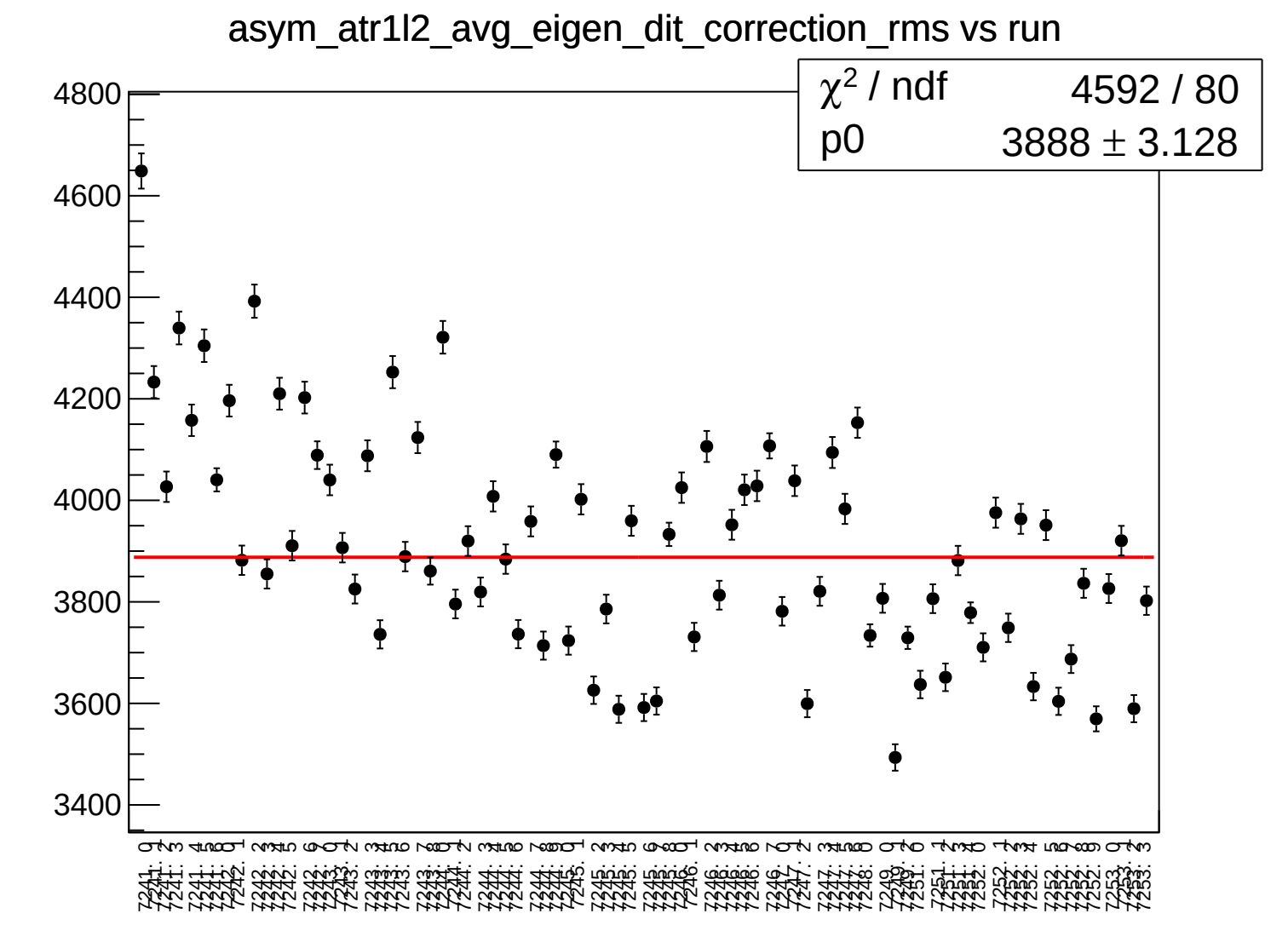

eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 57.18 / 80
p0 2904 ± 2029
pull
Entries 81
Mean 260.2
Std Dev 0

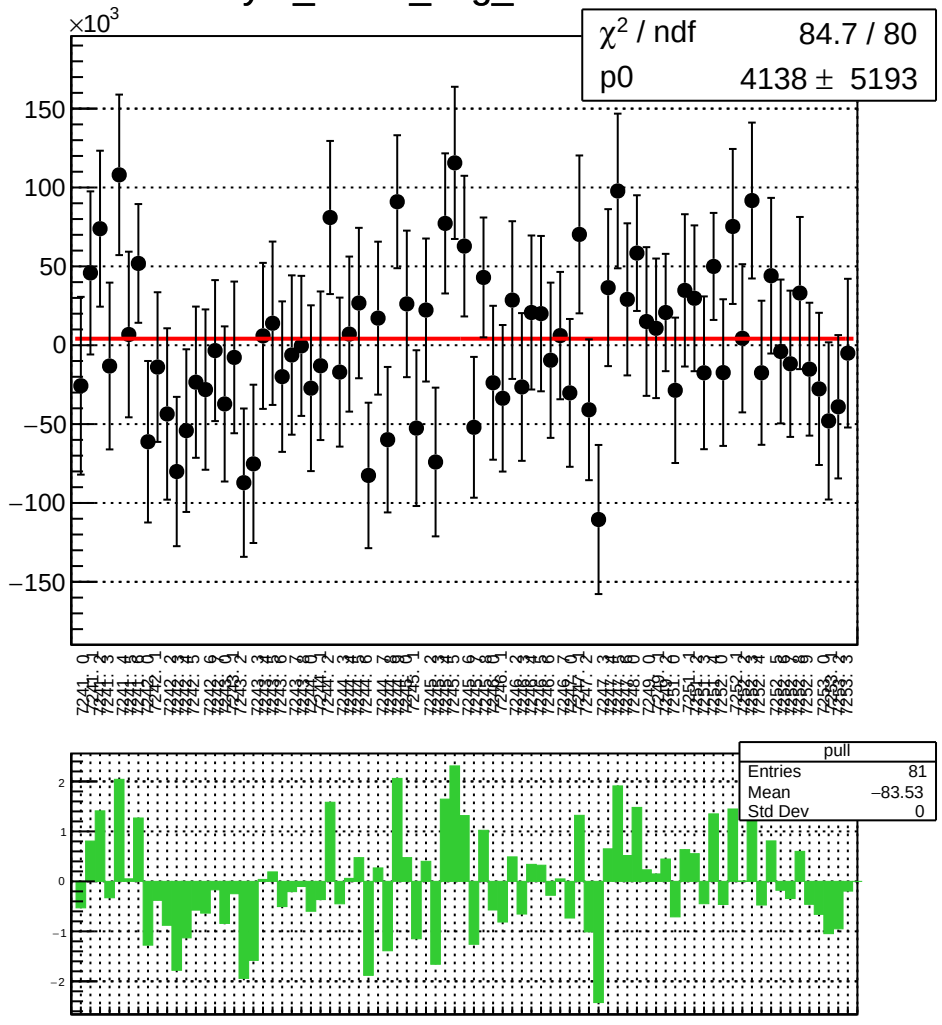

pull1D
Entries 81
Mean −0.003283
Std Dev 0.8402

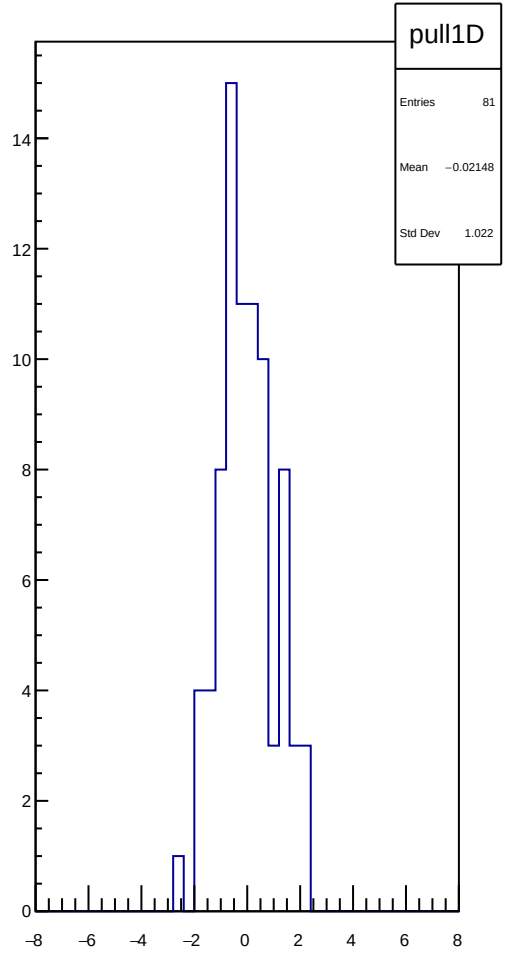

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 144.6 / 80
p0 1786 ± 1.435
1860
1840
1820
1800
1780
1760
1740

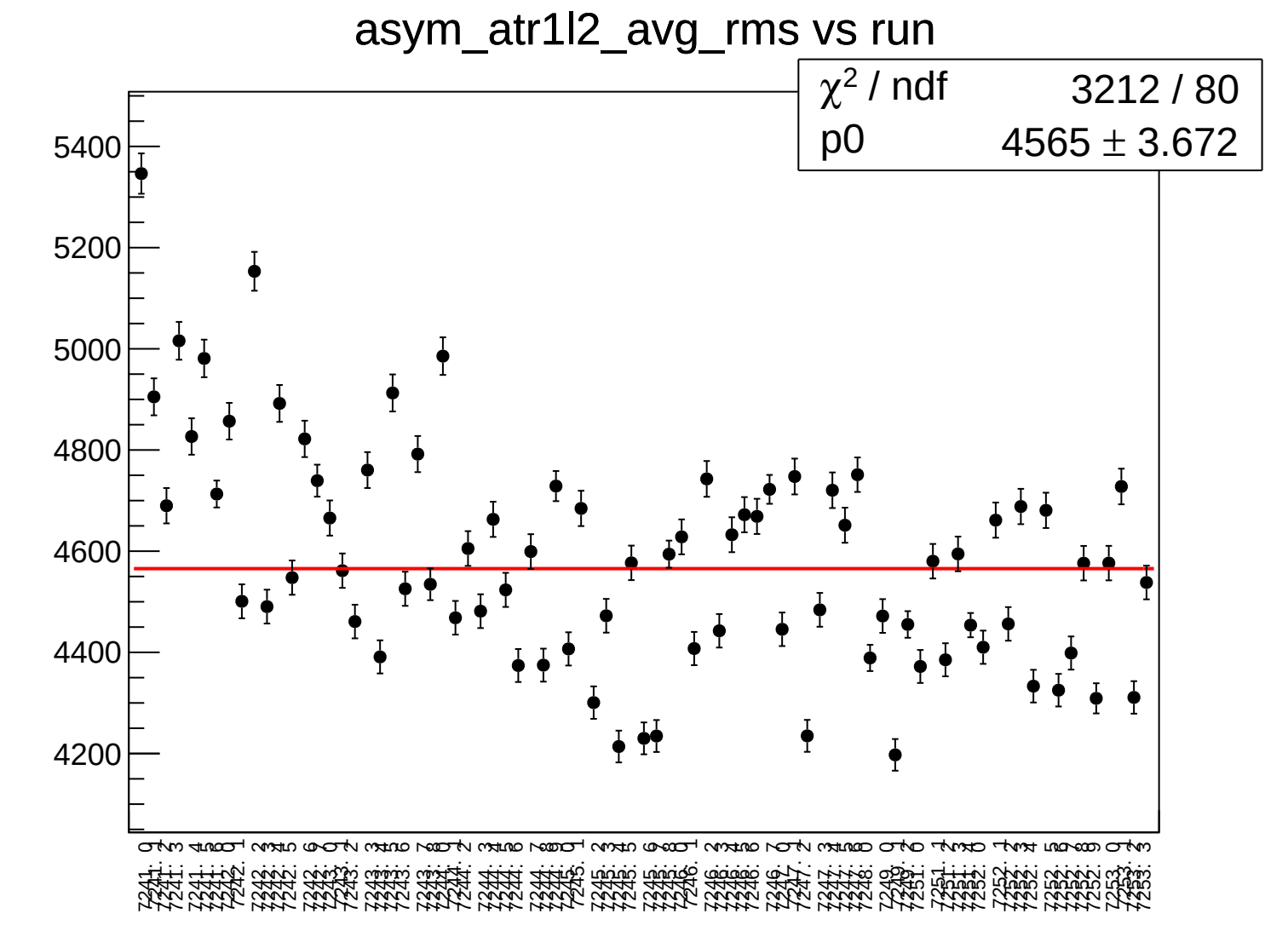

asym_atr1l2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.97 / 80
p0 −1542 ± 4424
pull
Entries 81
Mean −85.76
Std Dev 0

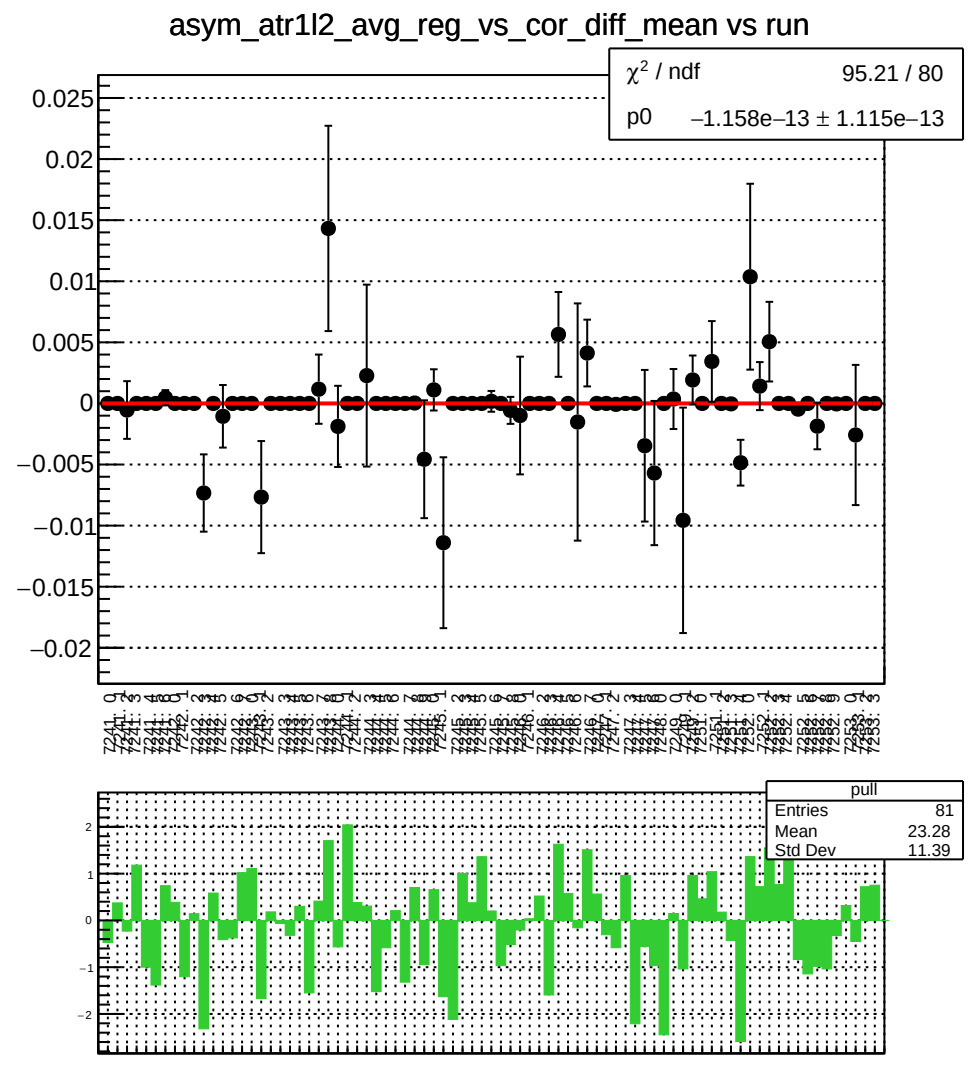

pull1D
Entries 81
Mean 0.02728
Std Dev 1.094

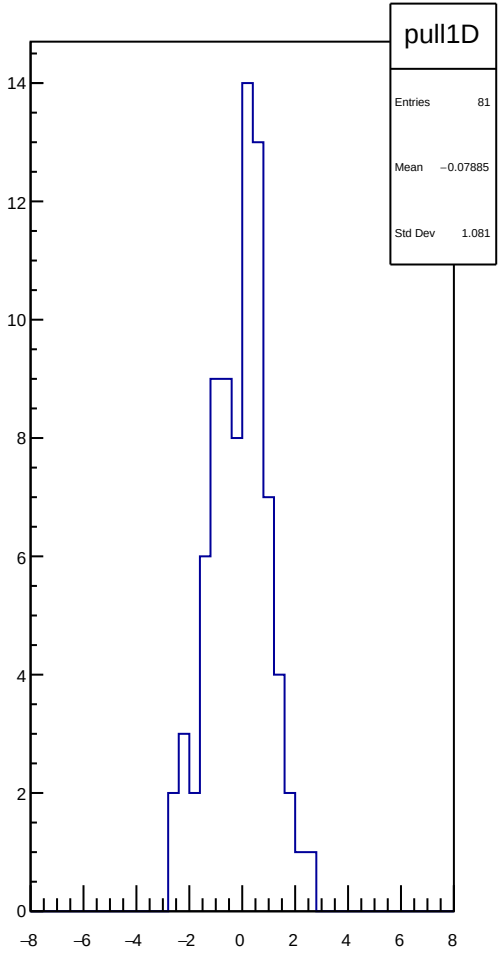

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 4592 / 80
p0 3888 ± 3.128
4800
4600
4400
4200
4000
3800
3600
3400

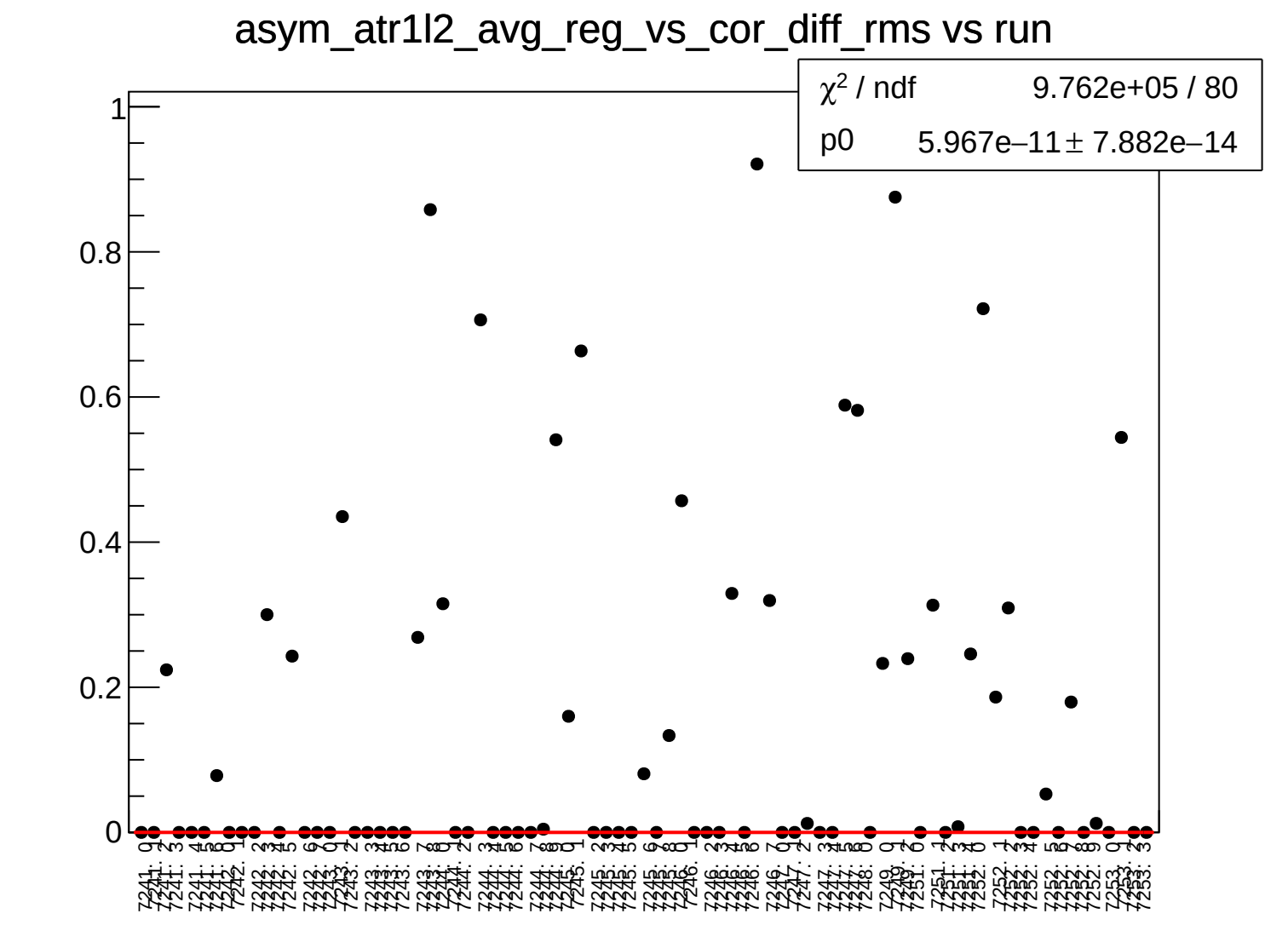

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 84.7 / 80
p0 4138 ± 5193
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean −83.53
Std Dev 0
2
1
0
−1
−2

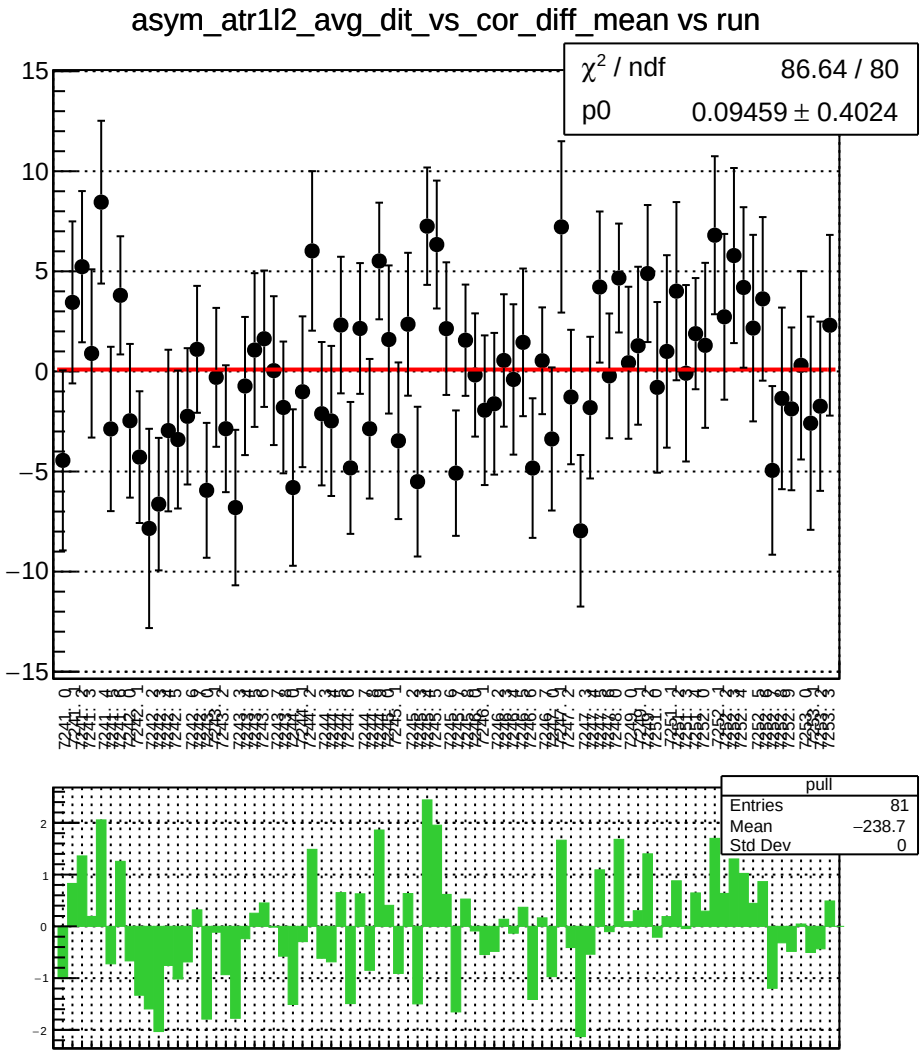

pull1D
Entries 81
Mean −0.02148
Std Dev 1.022
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

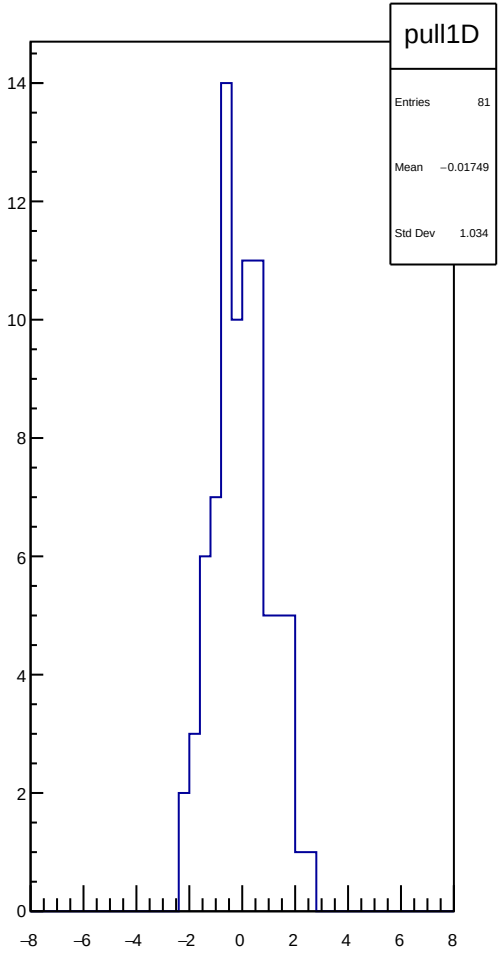

asym_atr1l2_avg_rms vs run
χ^2 / ndf 3212 / 80
p0 4565 ± 3.672
5400
5200
5000
4800
4600
4400
4200

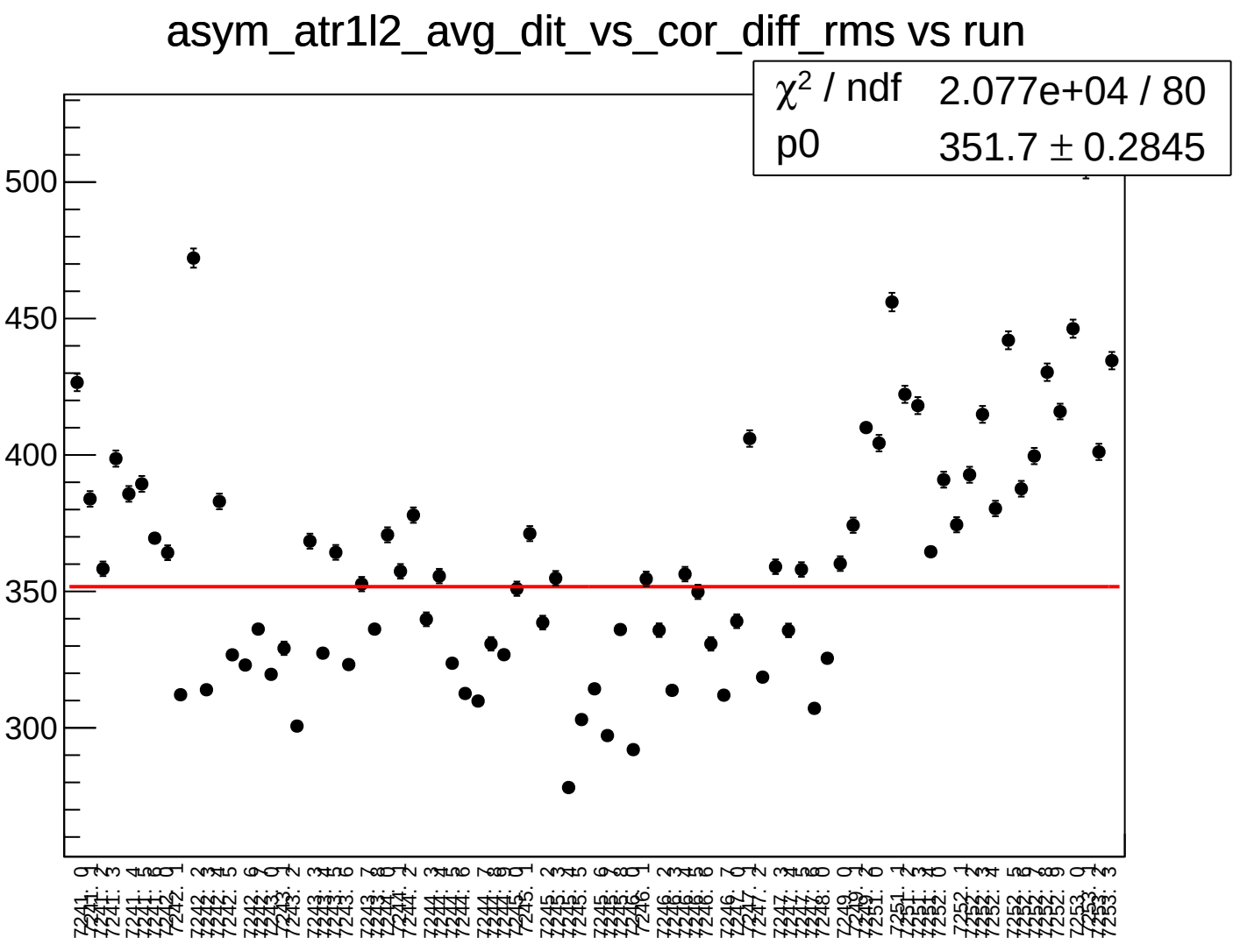

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 95.21 / 80
p0 −1.158e−13 ± 1.115e−13
pull
Entries 81
Mean 23.28
Std Dev 11.39

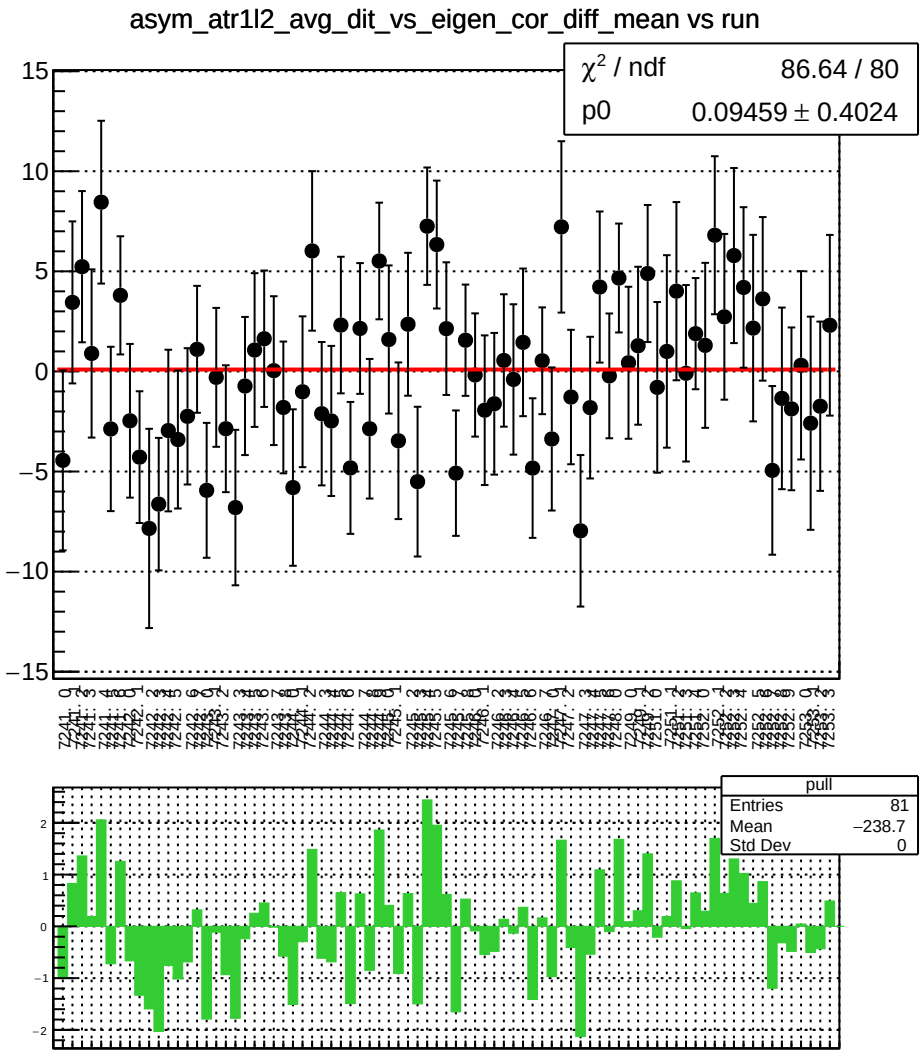

pull1D
Entries 81
Mean −0.07885
Std Dev 1.081

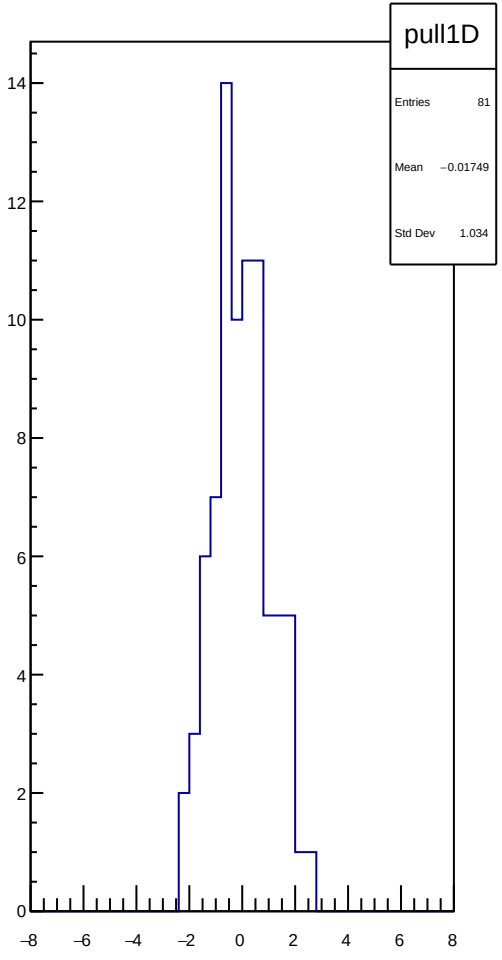

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ^2 / ndf 9.762e+05 / 80
p0 5.967e−11 ± 7.882e−14
1
0.8
0.6
0.4
0.2
0

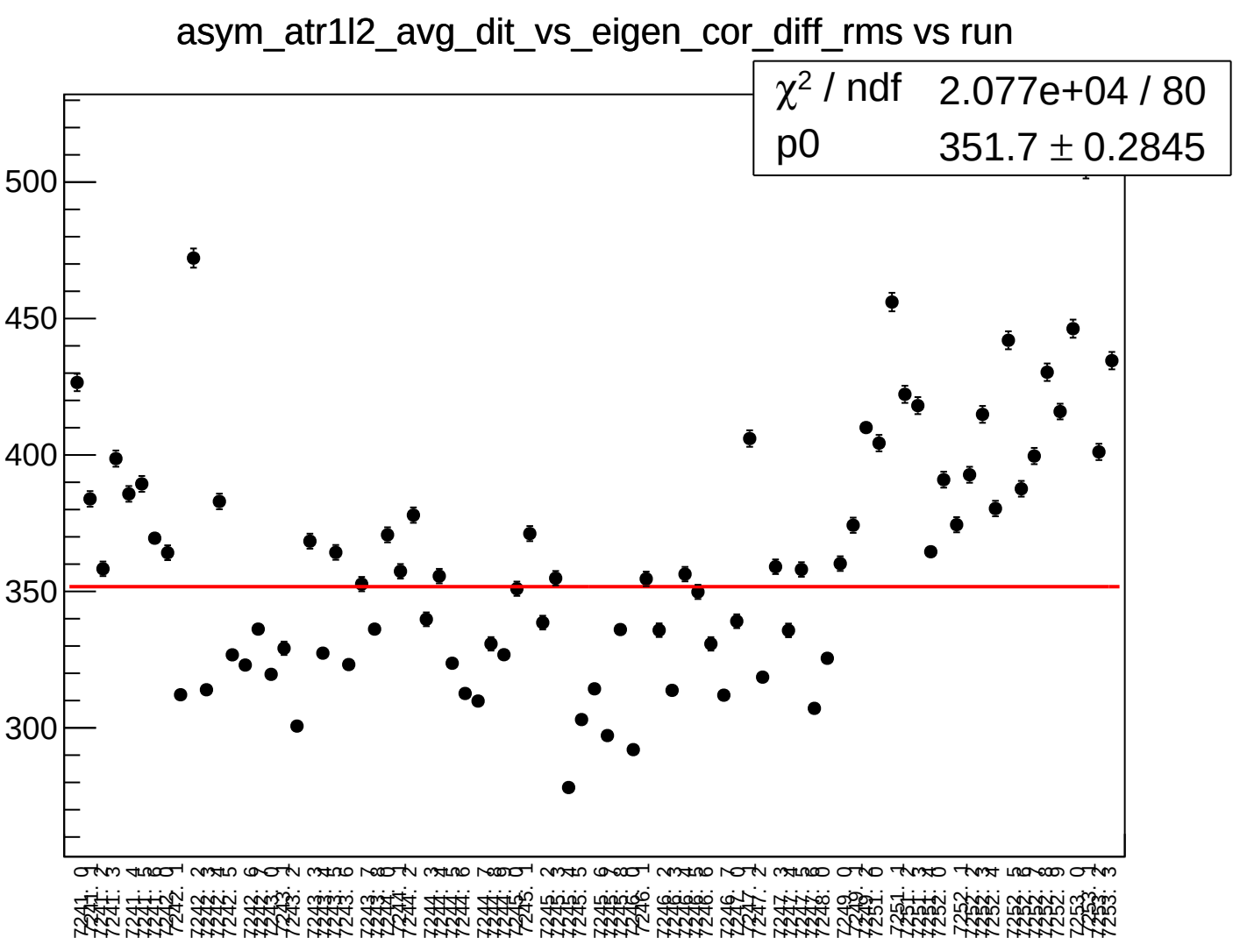

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 86.64 / 80
p0 0.09459 ± 0.4024
pull
Entries 81
Mean −238.7
Std Dev 0

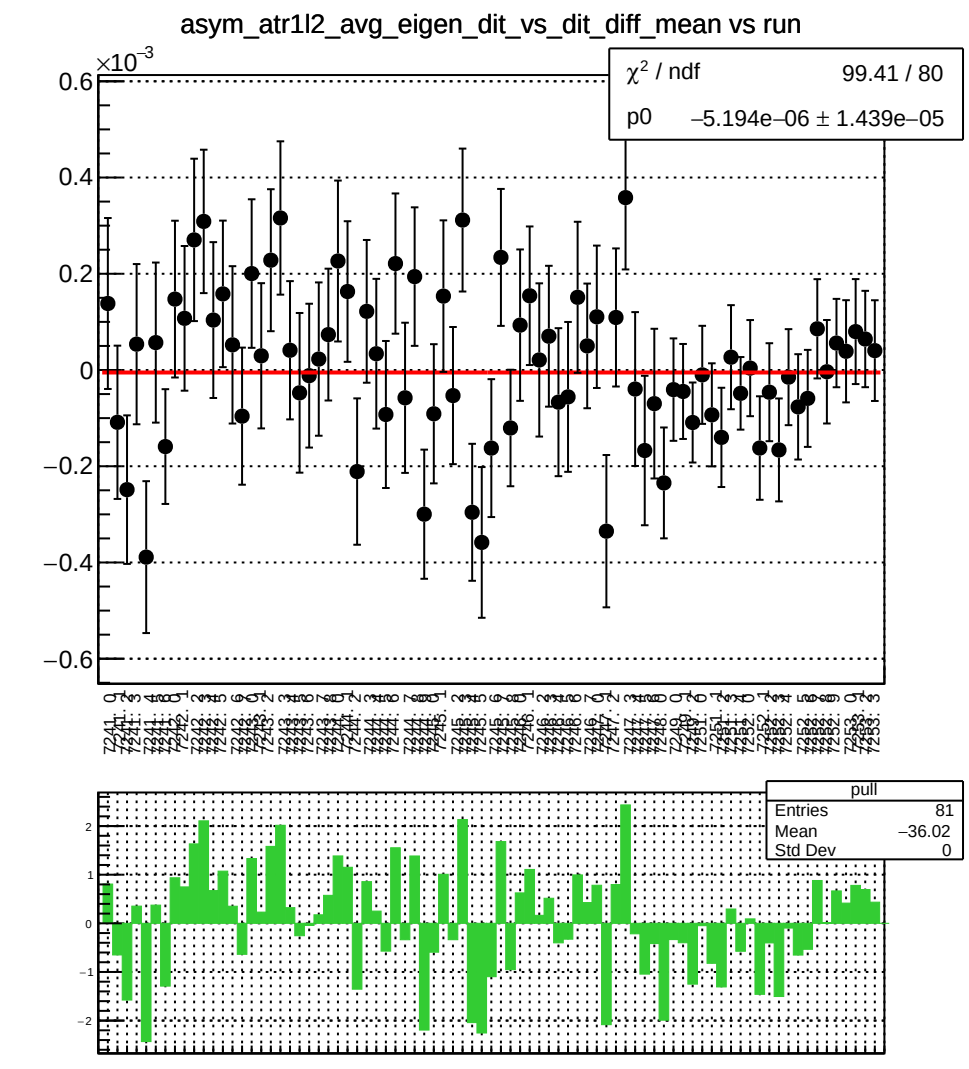

pull1D
Entries 81
Mean −0.01749
Std Dev 1.034

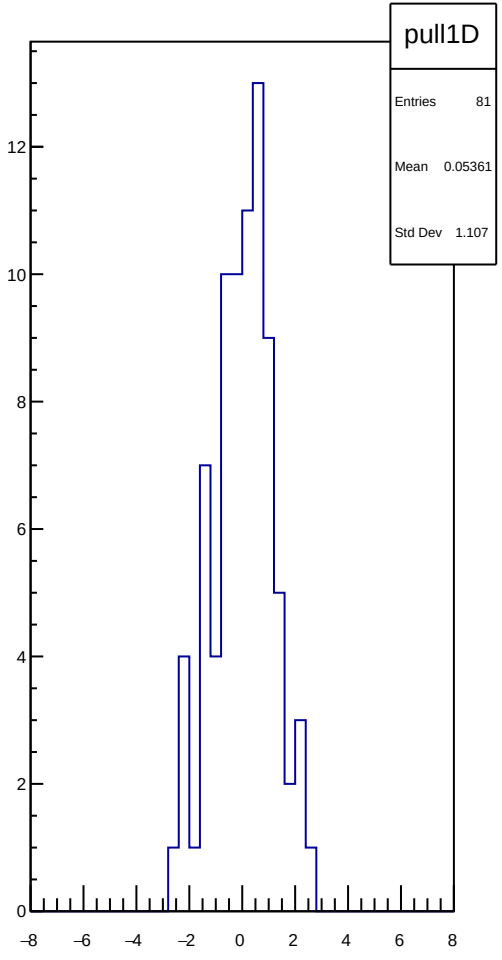

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.077e+04 / 80
p0 351.7 ± 0.2845
500
450
400
350
300

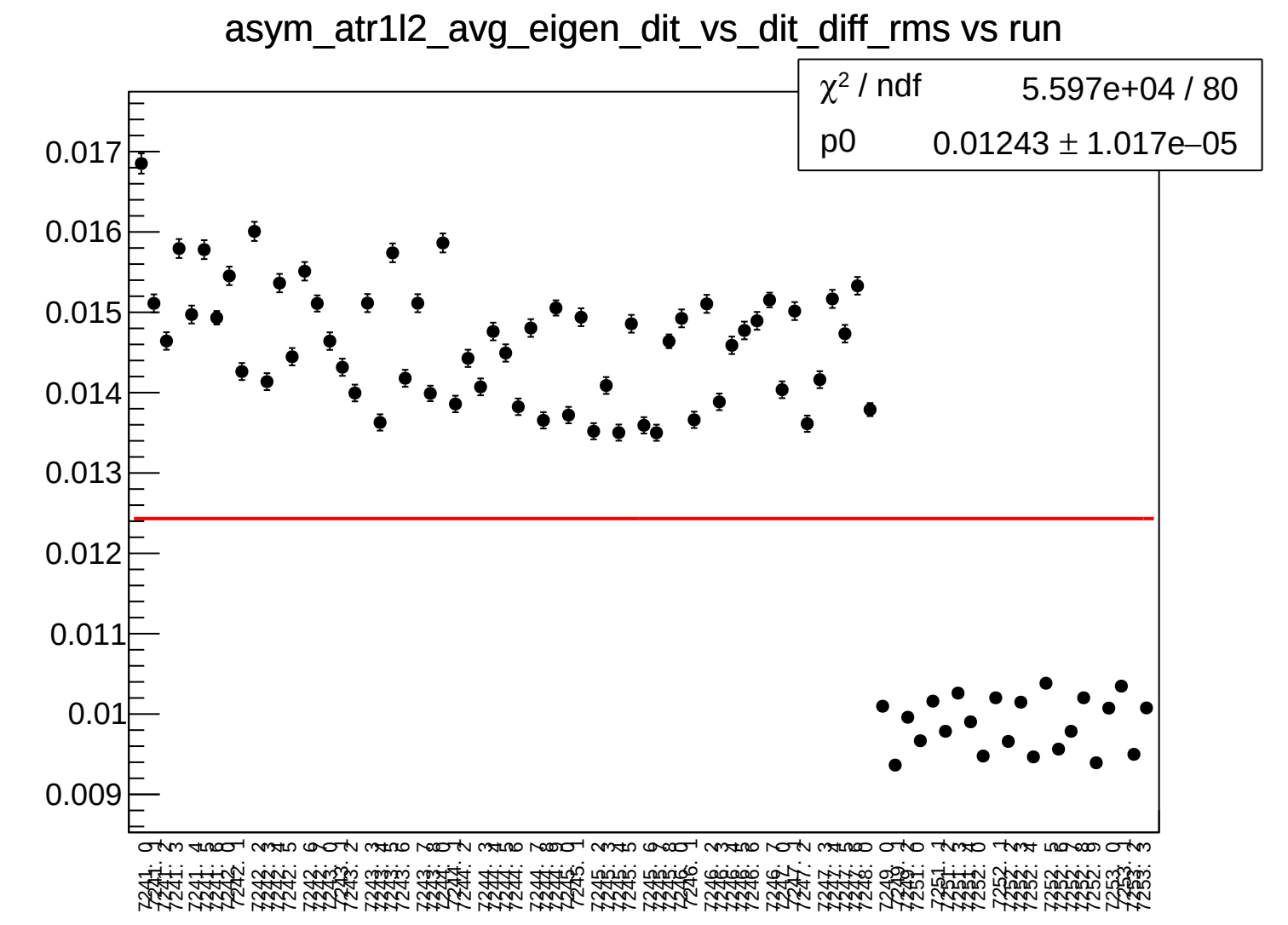

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.64 / 80
p0 0.09459 ± 0.4024
pull
Entries 81
Mean −238.7
Std Dev 0

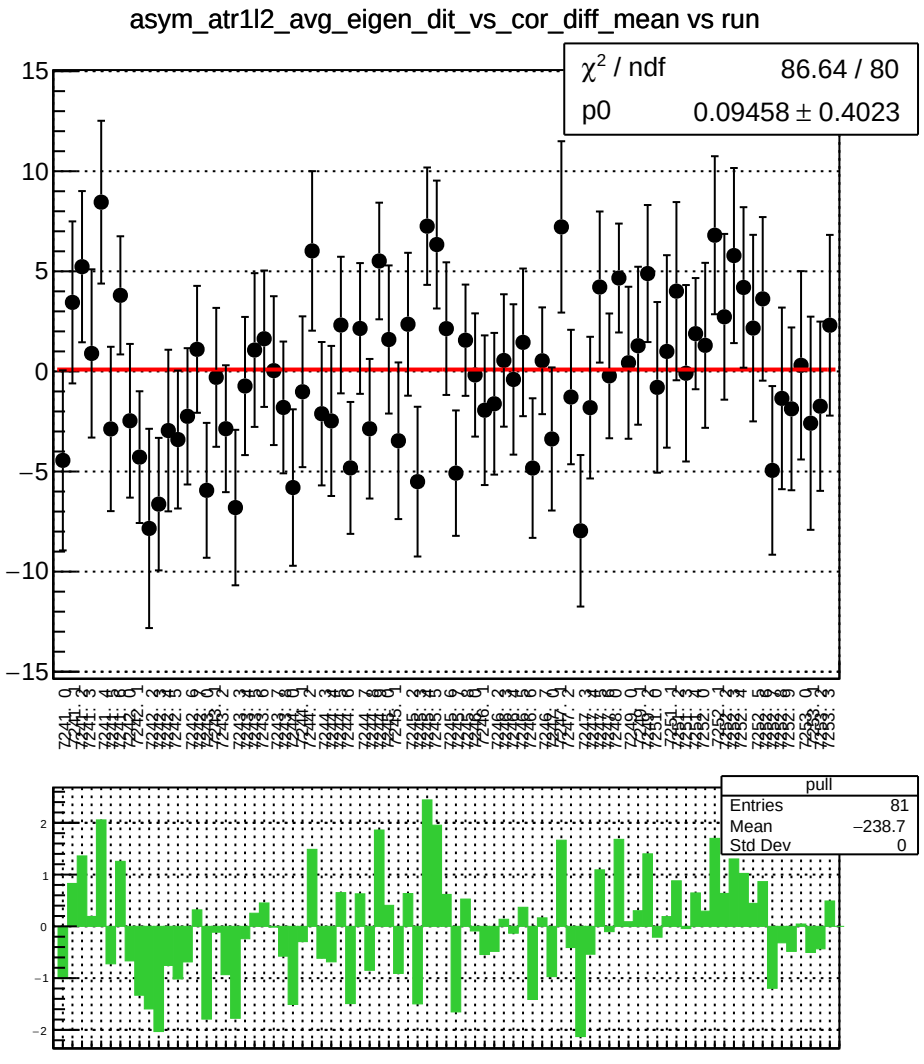

pull1D
Entries 81
Mean −0.01749
Std Dev 1.034

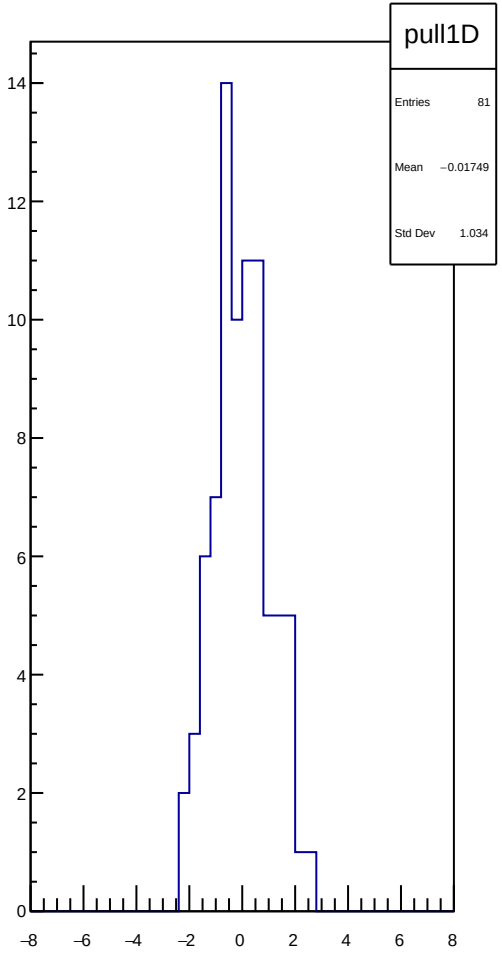

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.077e+04 / 80
p0 351.7 ± 0.2845
500
450
400
350
300

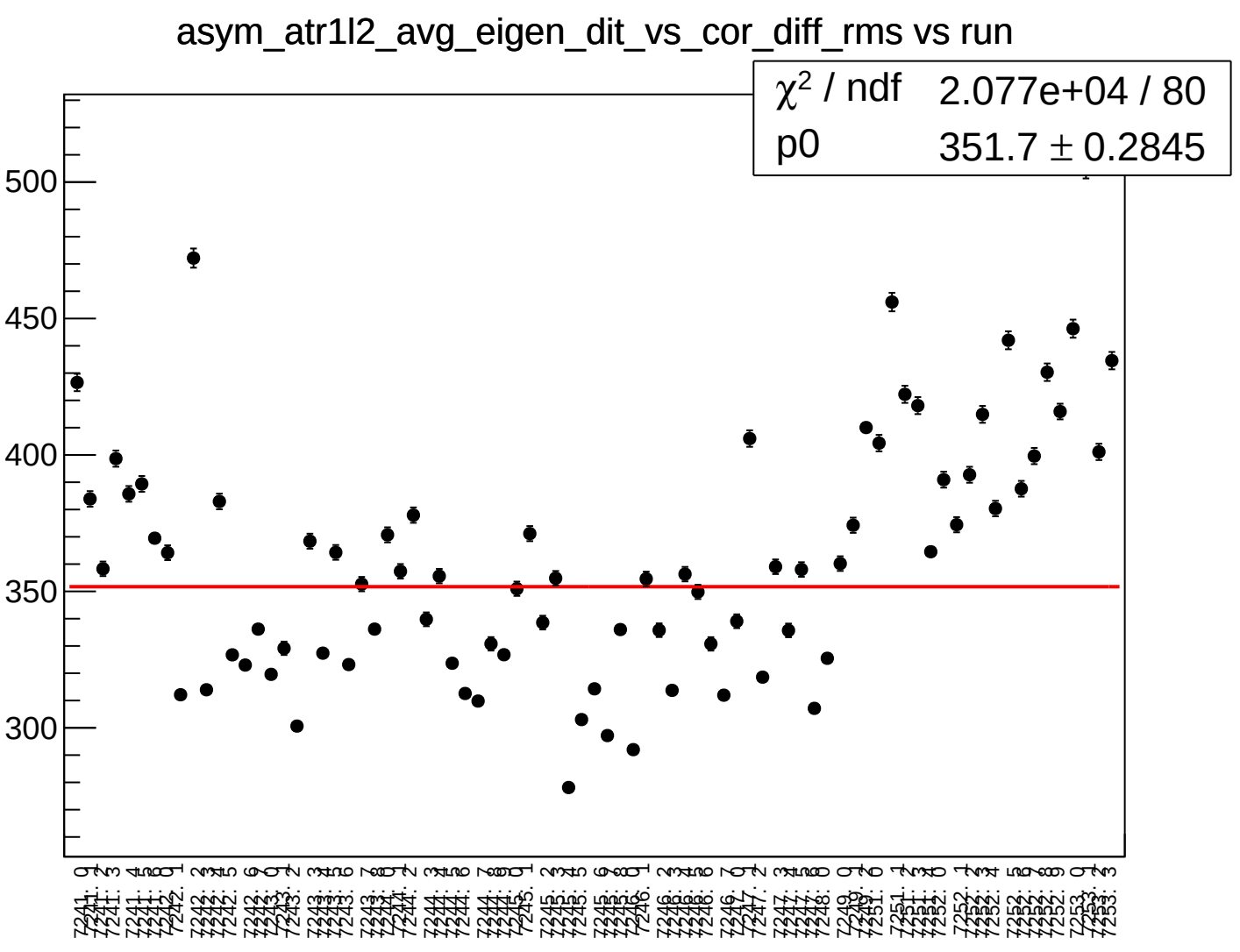

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.41 / 80
p0 −5.194e−06 ± 1.439e−05
pull
Entries 81
Mean −36.02
Std Dev 0

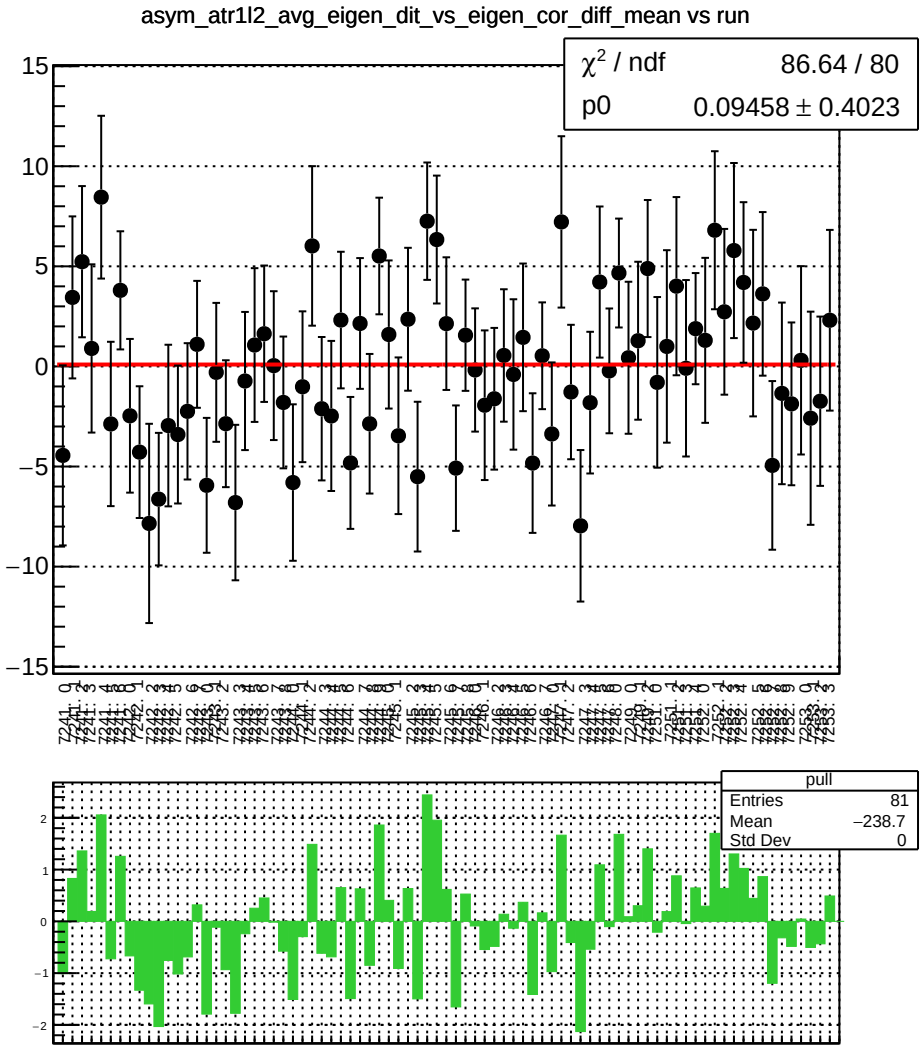

pull1D
Entries 81
Mean 0.05361
Std Dev 1.107

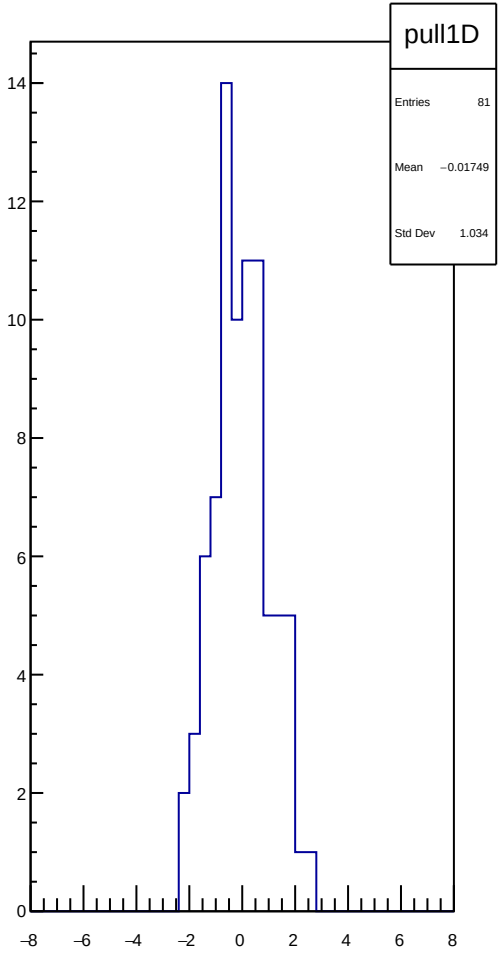

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.597e+04 / 80
p0 0.01243 ± 1.017e−05
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009

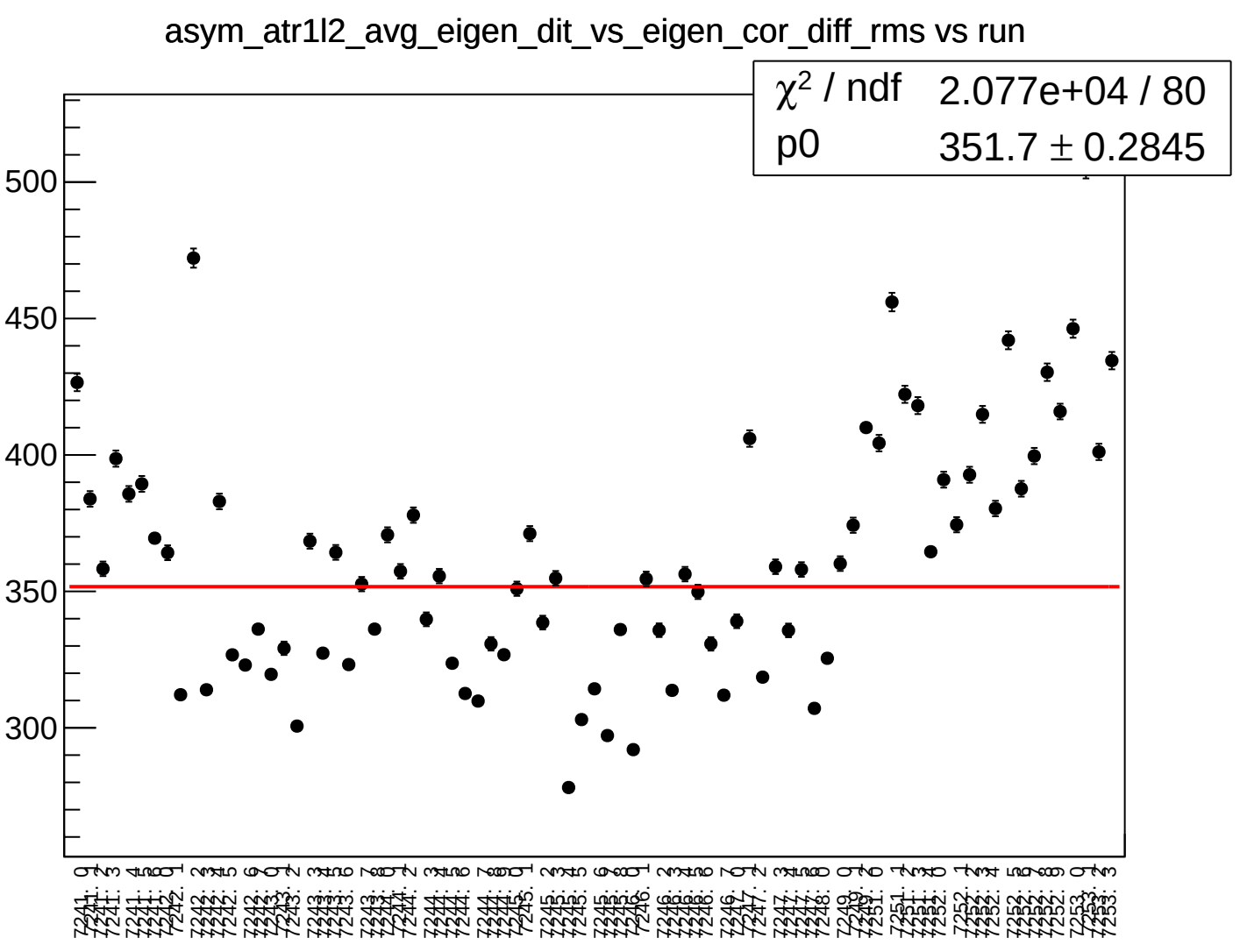

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.64 / 80
p0 0.09458 ± 0.4023
pull
Entries 81
Mean −238.7
Std Dev 0

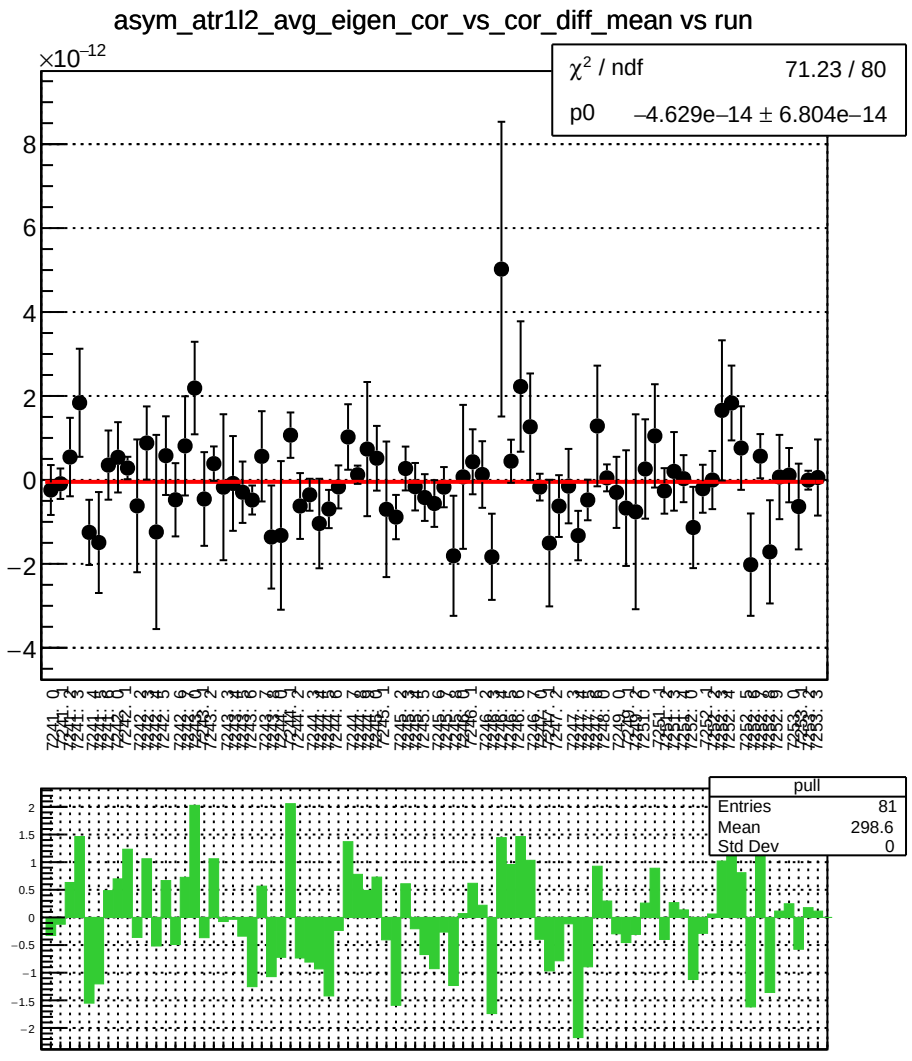

pull1D
Entries 81
Mean −0.01749
Std Dev 1.034

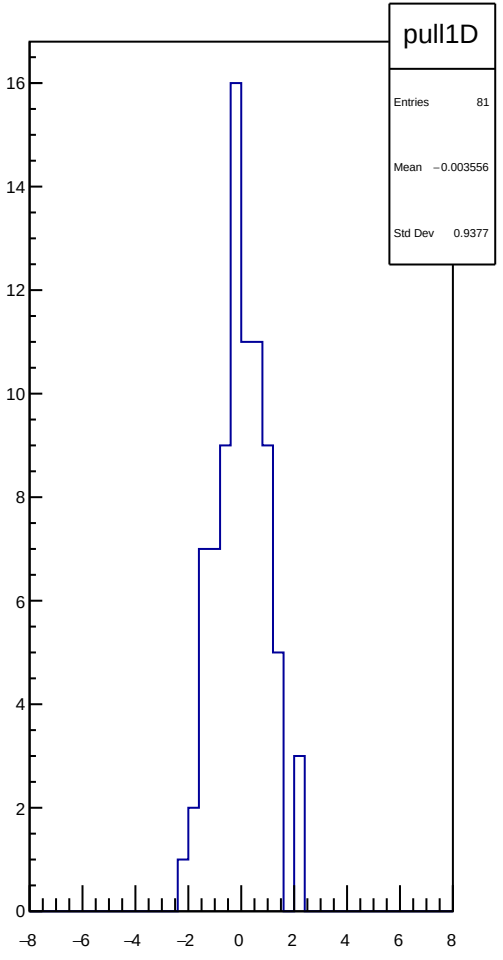

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.077e+04 / 80
p0 351.7 ± 0.2845
500
450
400
350
300

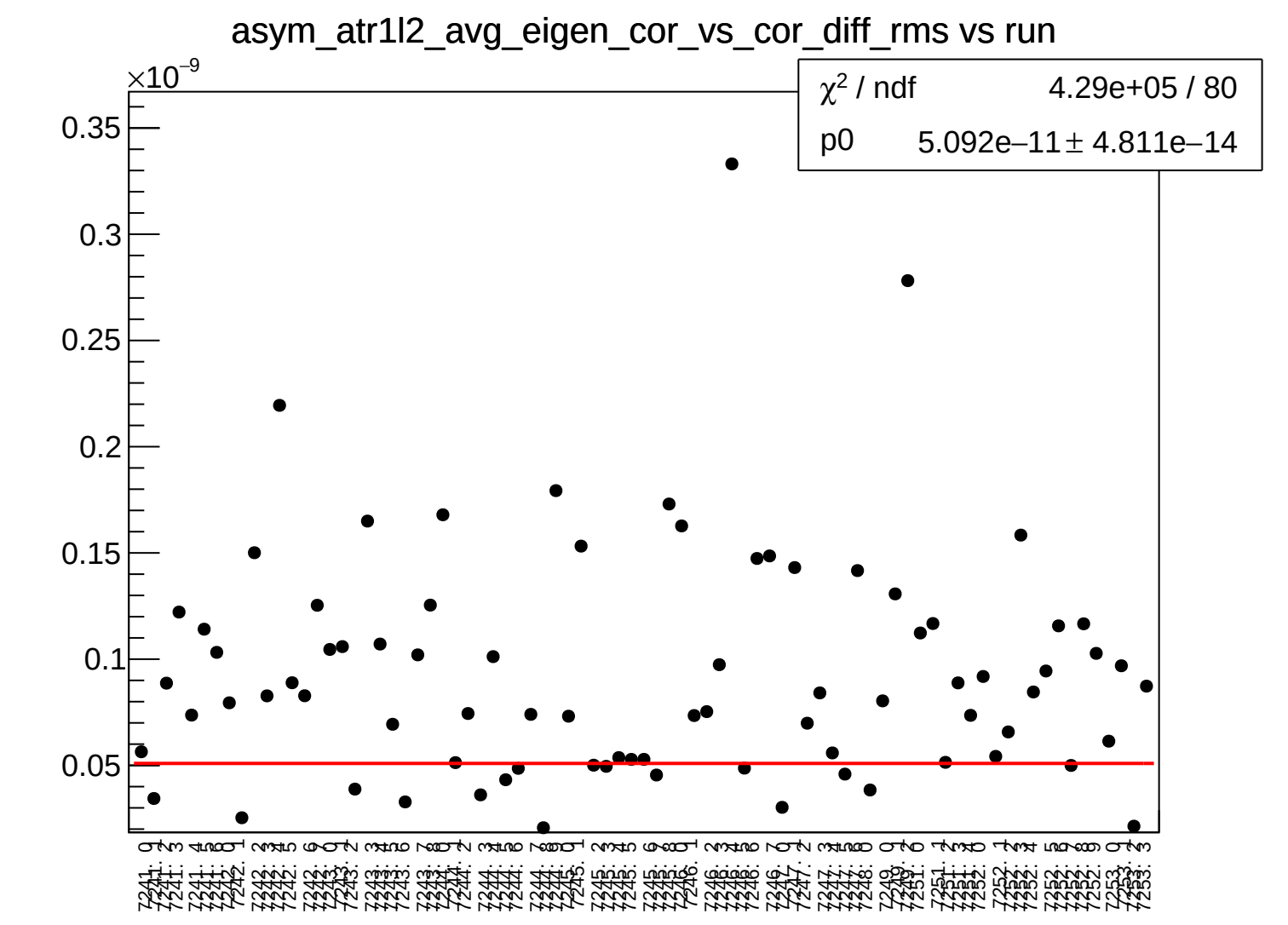

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.64 / 80
p0 0.09458 ± 0.4023
pull
Entries 81
Mean −238.7
Std Dev 0

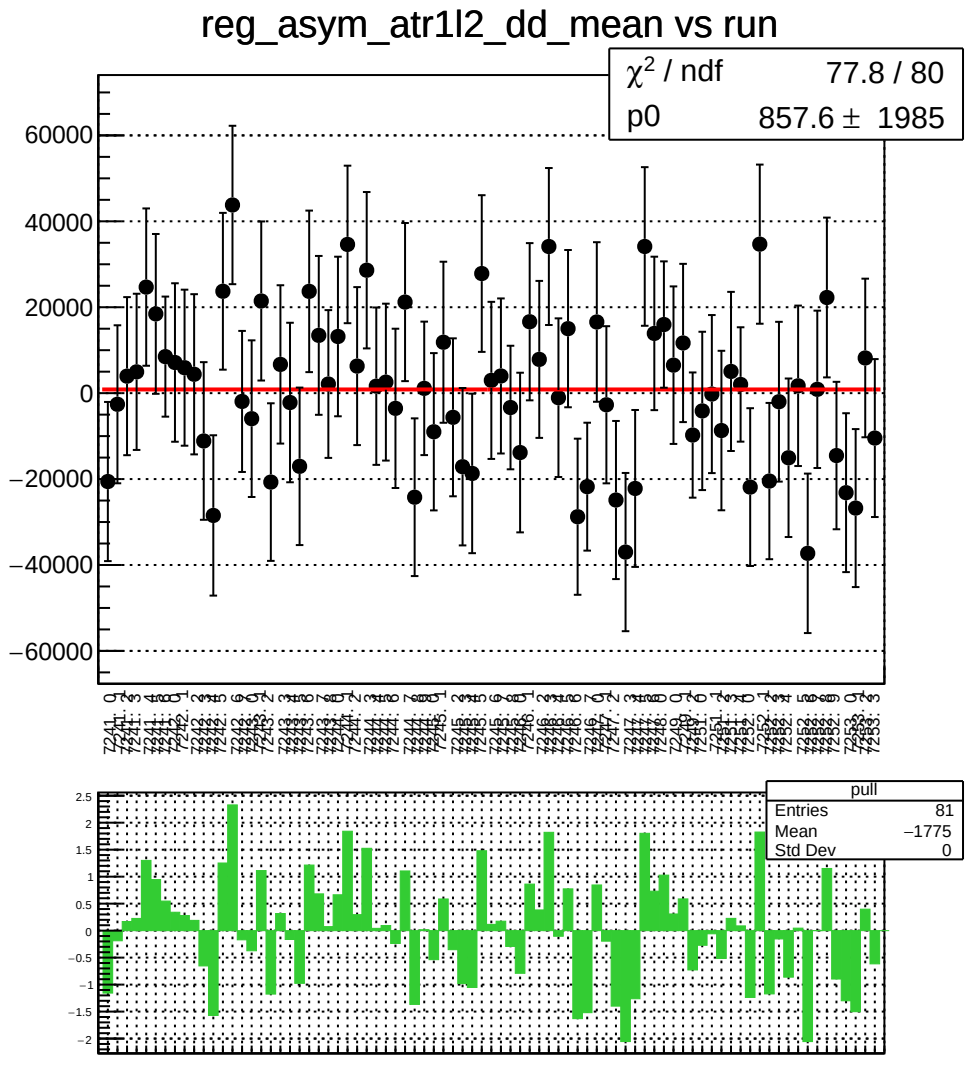

pull1D
Entries 81
Mean −0.01749
Std Dev 1.034

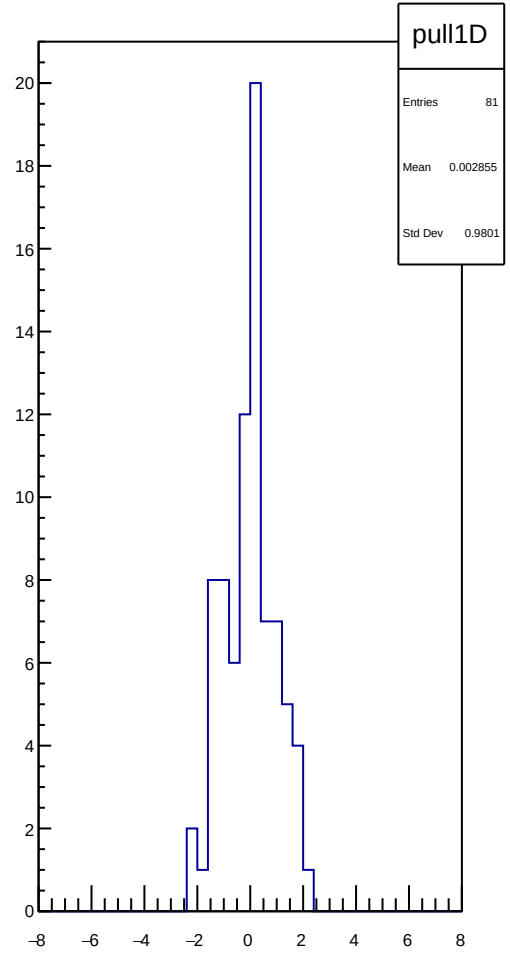

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.077e+04 / 80
p0 351.7 ± 0.2845
500
450
400
350
300

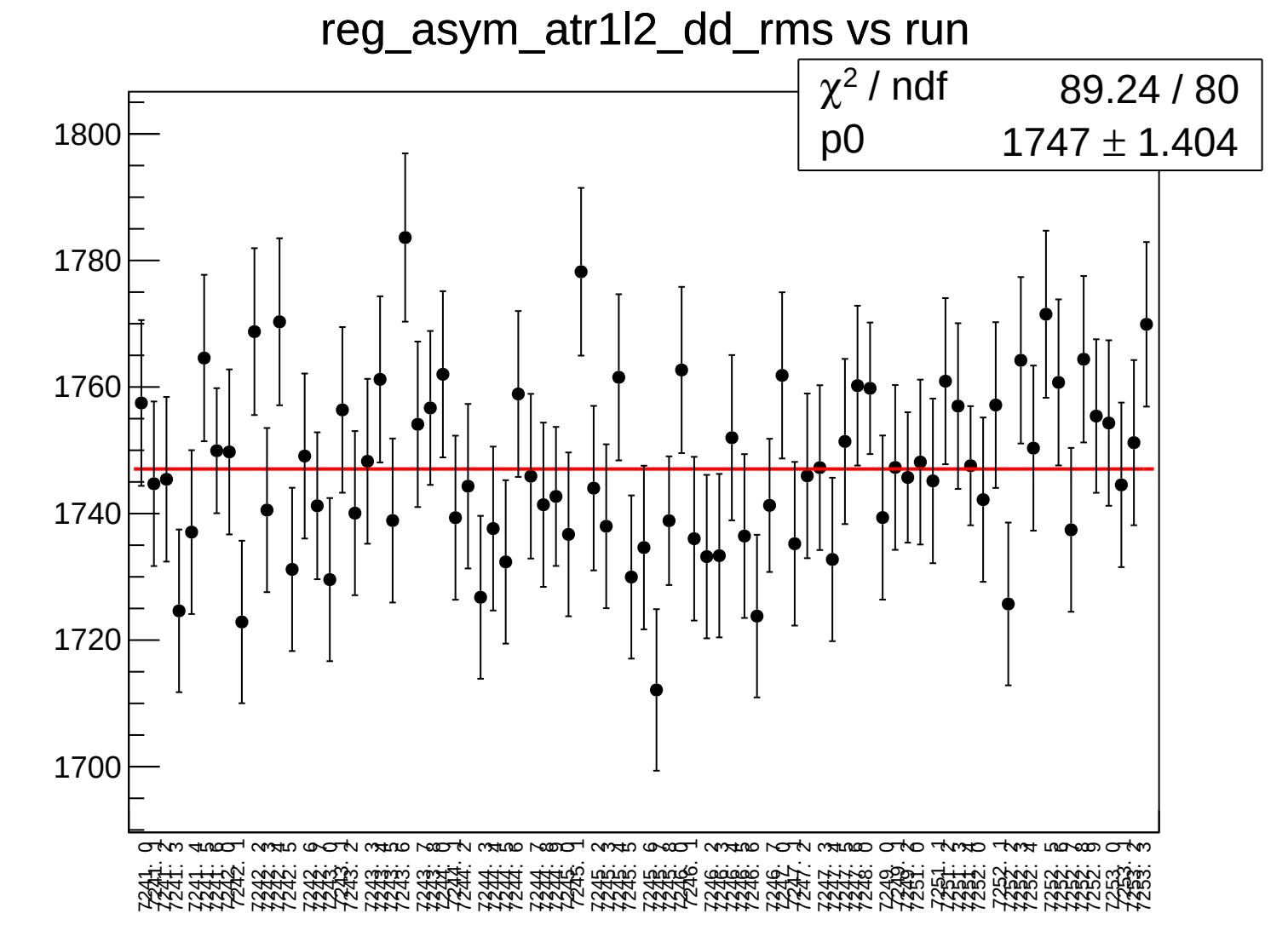

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71.23 / 80
p0 −4.629e−14 ± 6.804e−14
pull
Entries 81
Mean 298.6
Std Dev 0

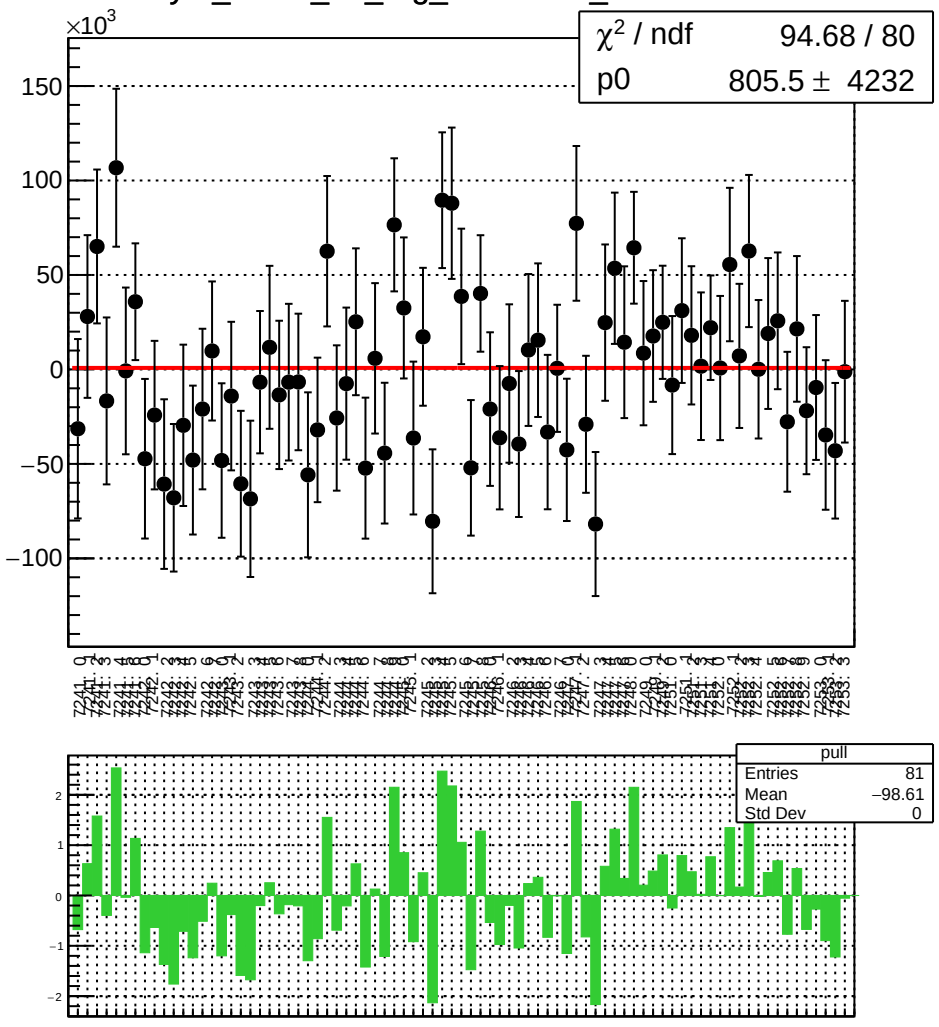

pull1D
Entries 81
Mean −0.003556
Std Dev 0.9377

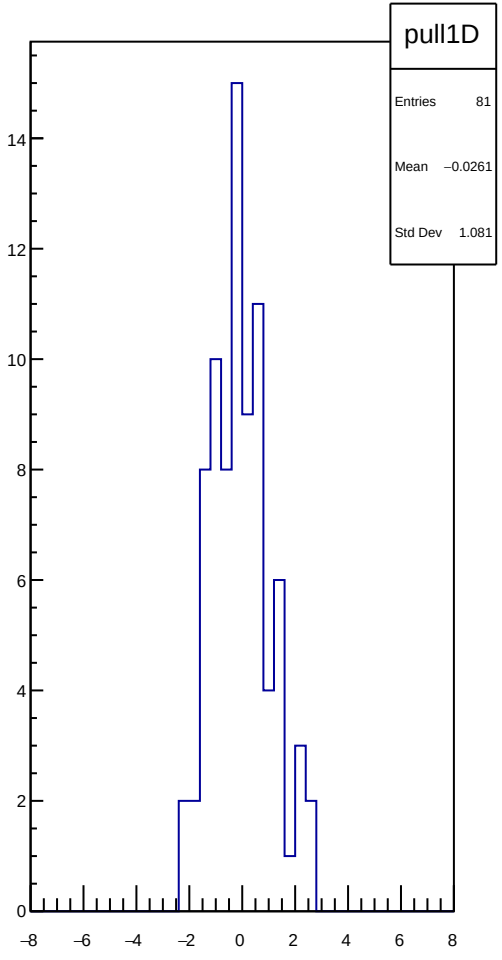

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.29e+05 / 80
p0 5.092e−11 ± 4.811e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

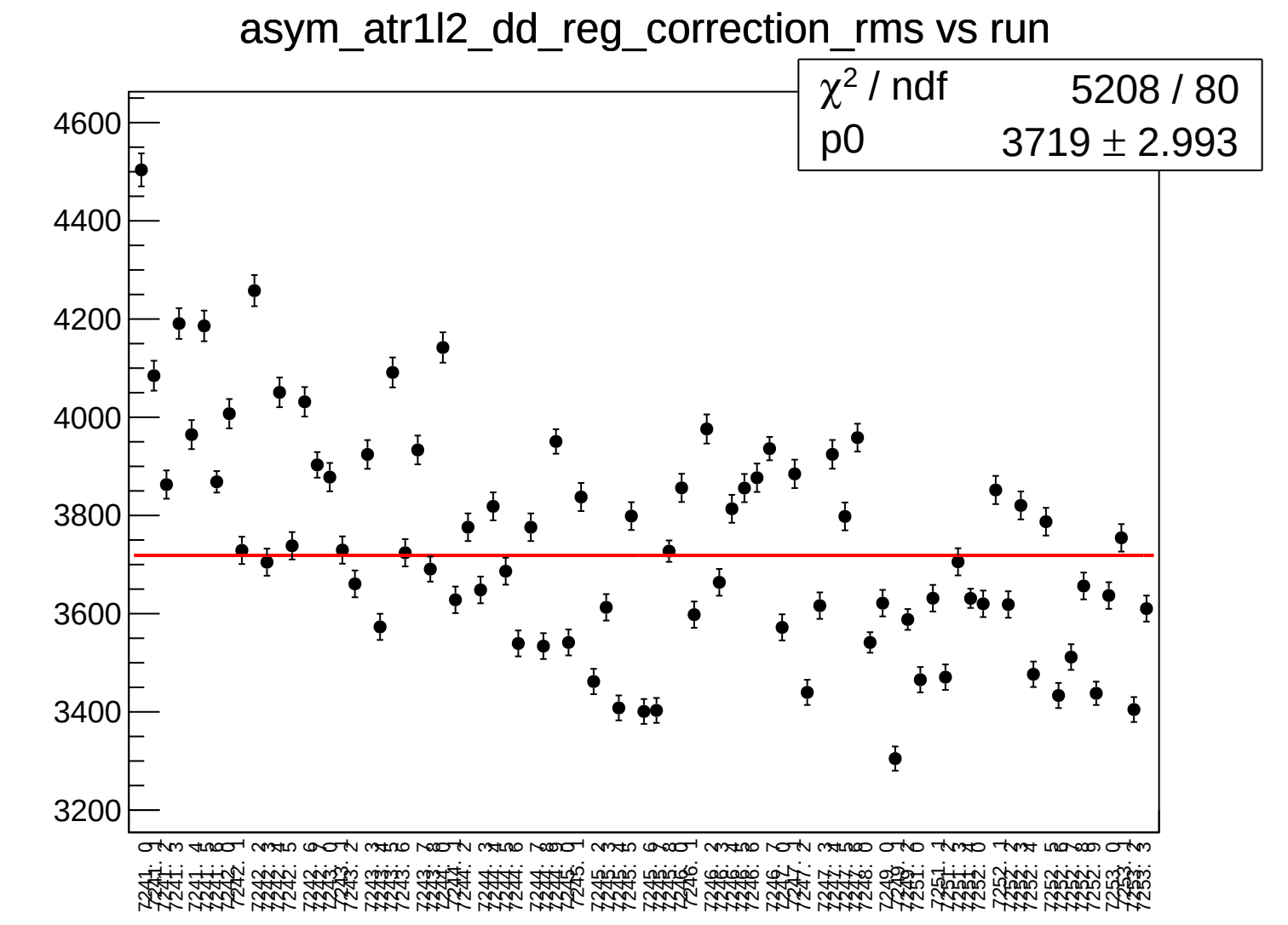

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 77.8 / 80
p0 857.6 ± 1985
pull
Entries 81
Mean −1775
Std Dev 0

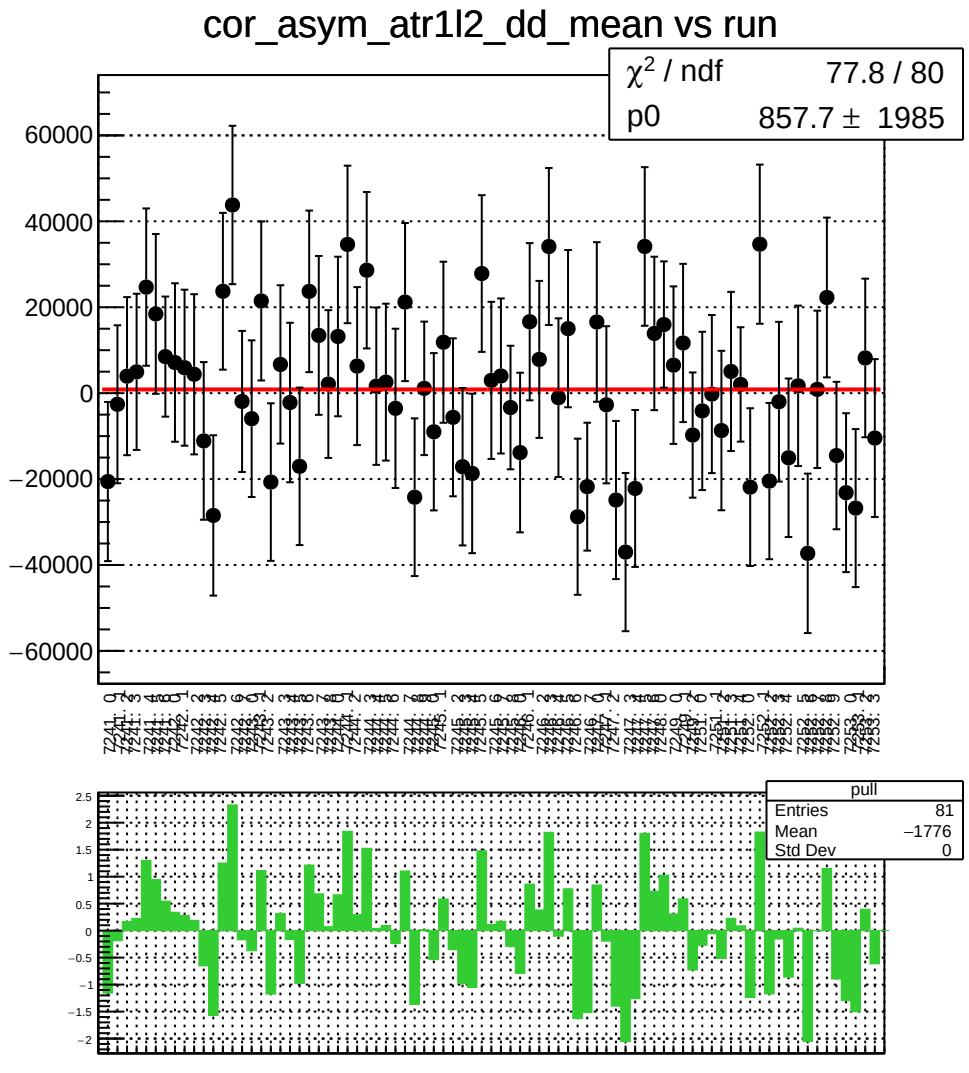

pull1D
Entries 81
Mean 0.002855
Std Dev 0.9801

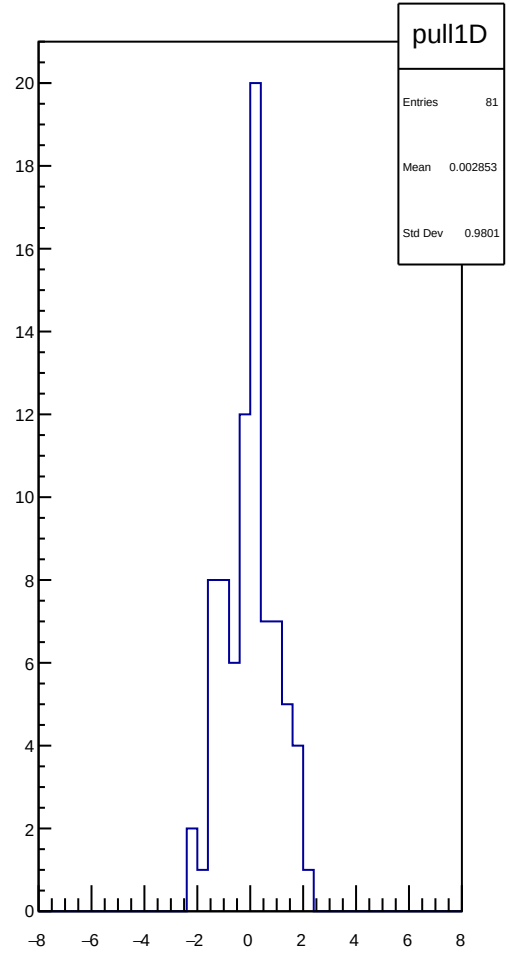

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 89.24 / 80
p0 1747 ± 1.404
1800
1780
1760
1740
1720
1700

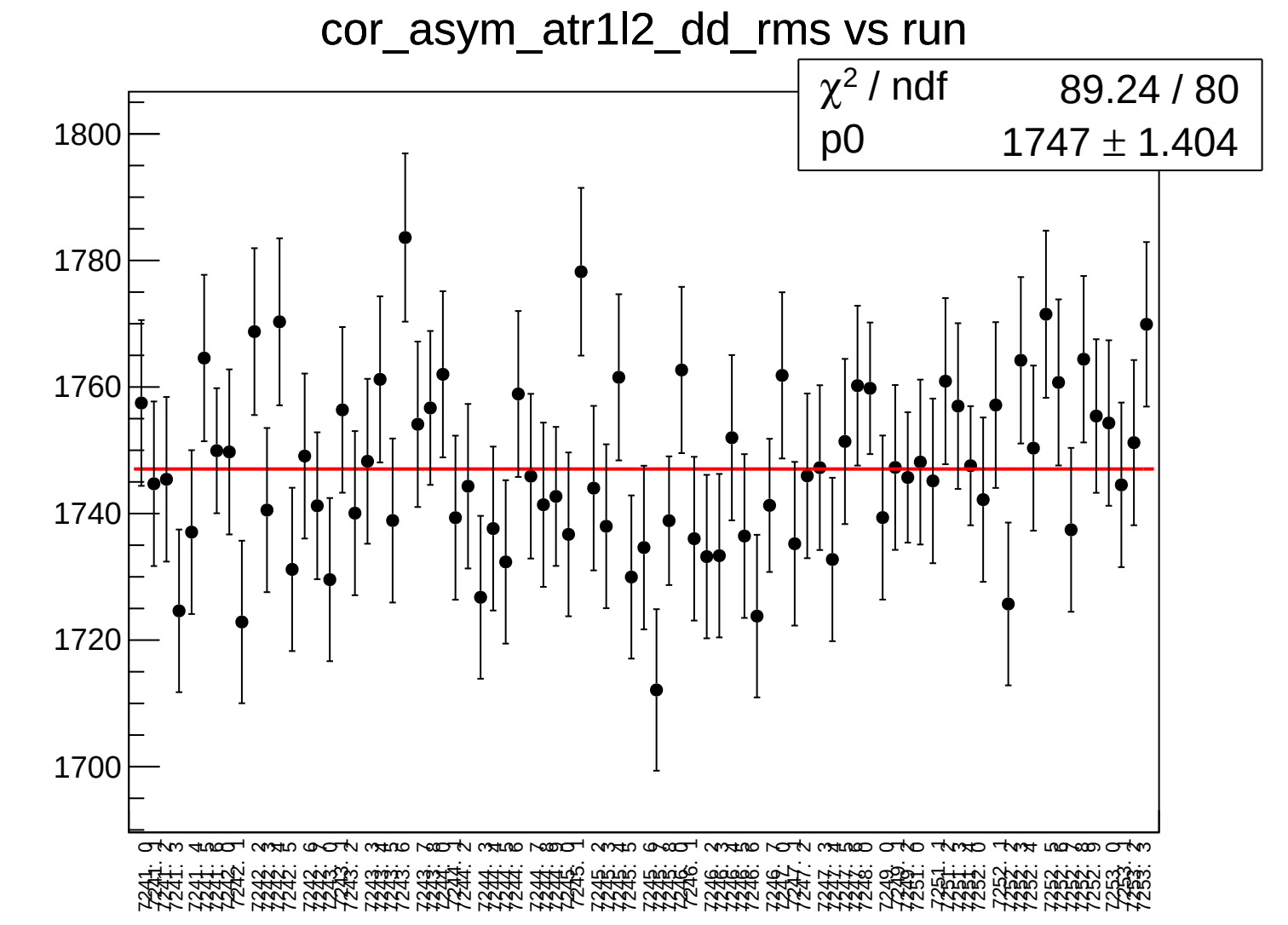

asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 94.68 / 80
p0 805.5 ± 4232
150
100
50
0
−50
−100
pull
Entries 81
Mean −98.61
Std Dev 0
2
1
0
−1
−2

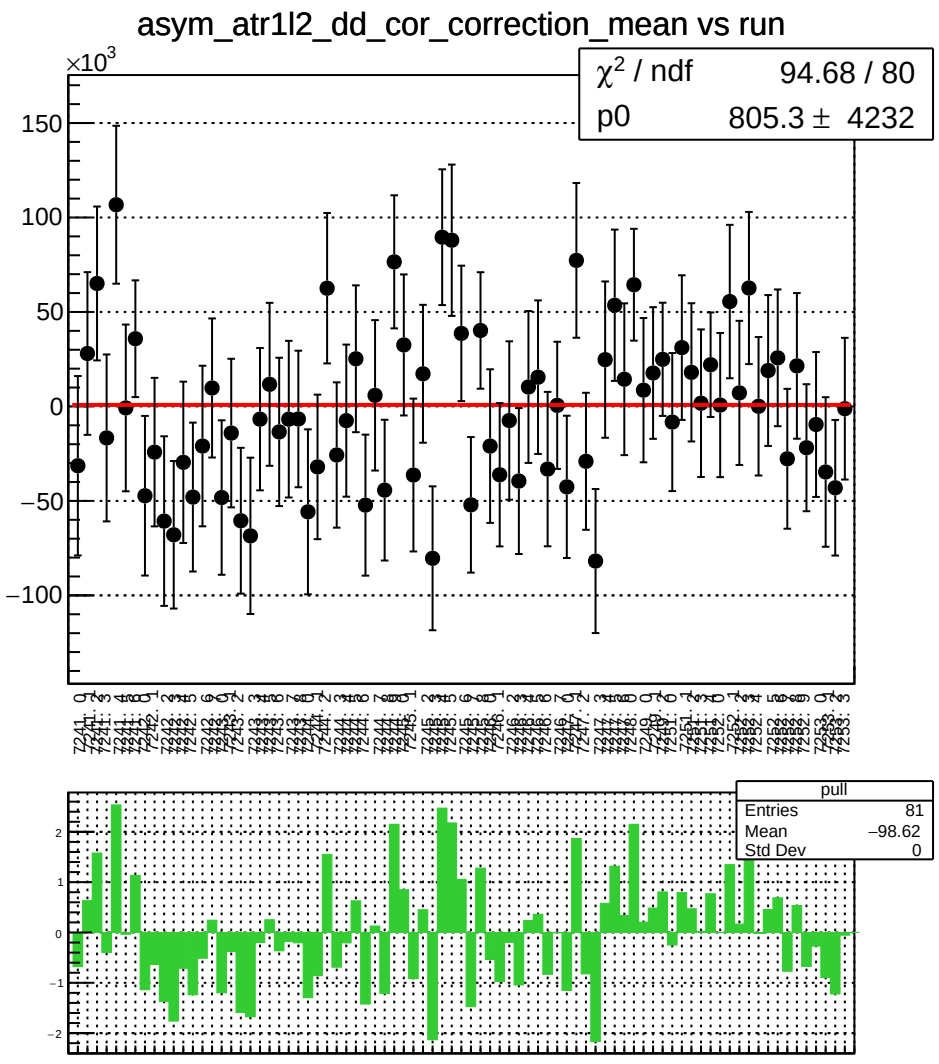

pull1D
Entries 81
Mean −0.0261
Std Dev 1.081
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

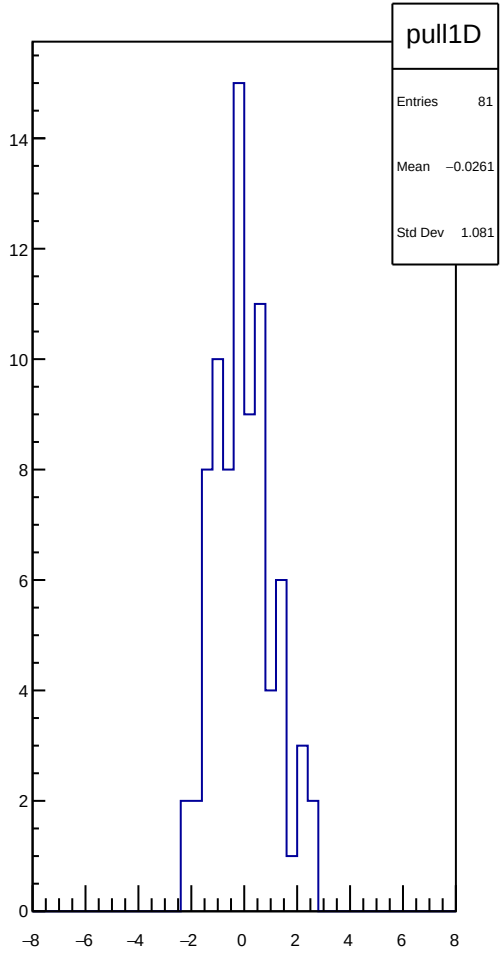

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 5208 / 80
p0 3719 ± 2.993
4600
4400
4200
4000
3800
3600
3400
3200

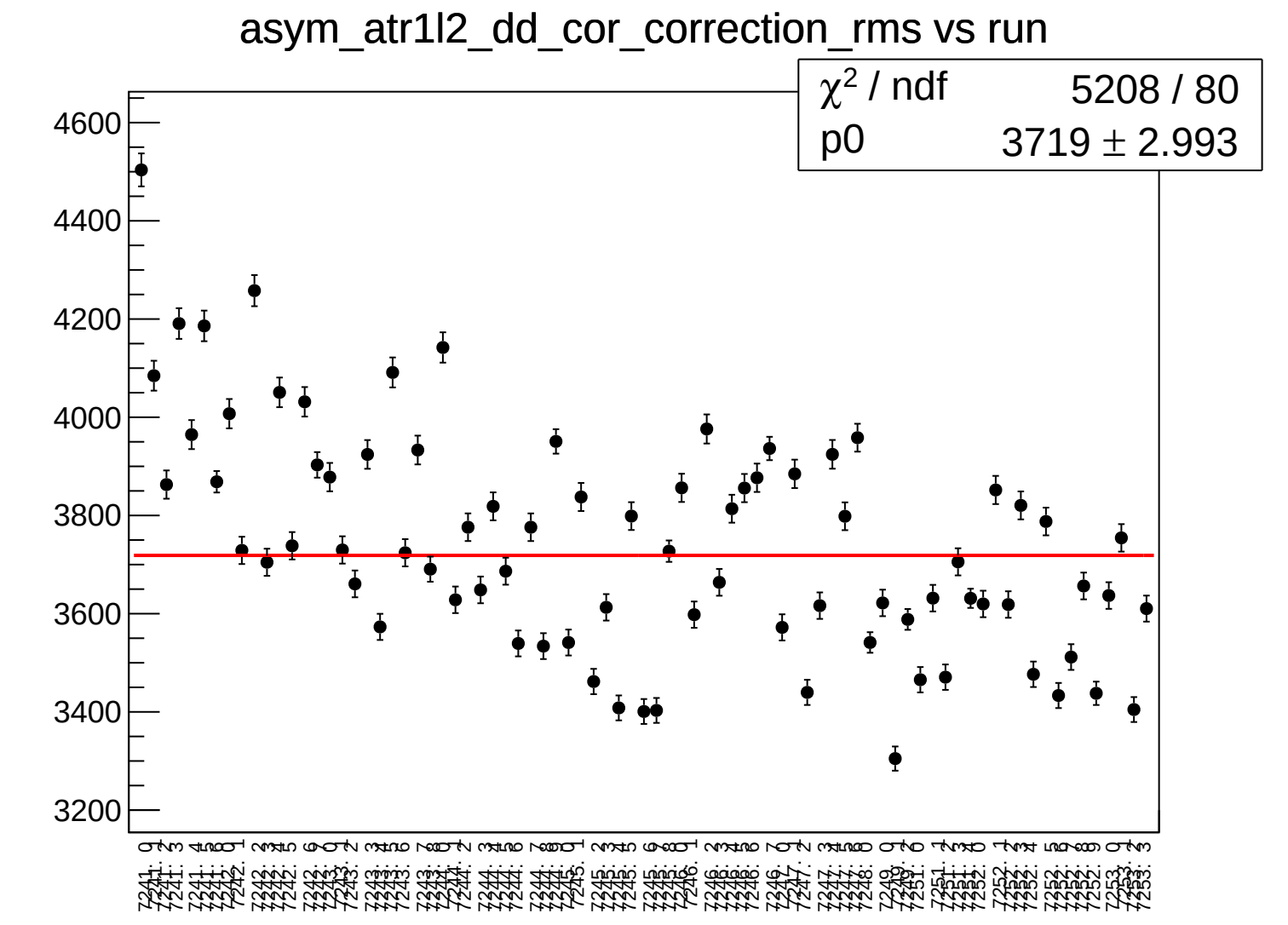

cor_asym_atr1l2_dd_mean vs run
χ² / ndf 77.8 / 80
p0 857.7 ± 1985
pull
Entries 81
Mean −1776
Std Dev 0

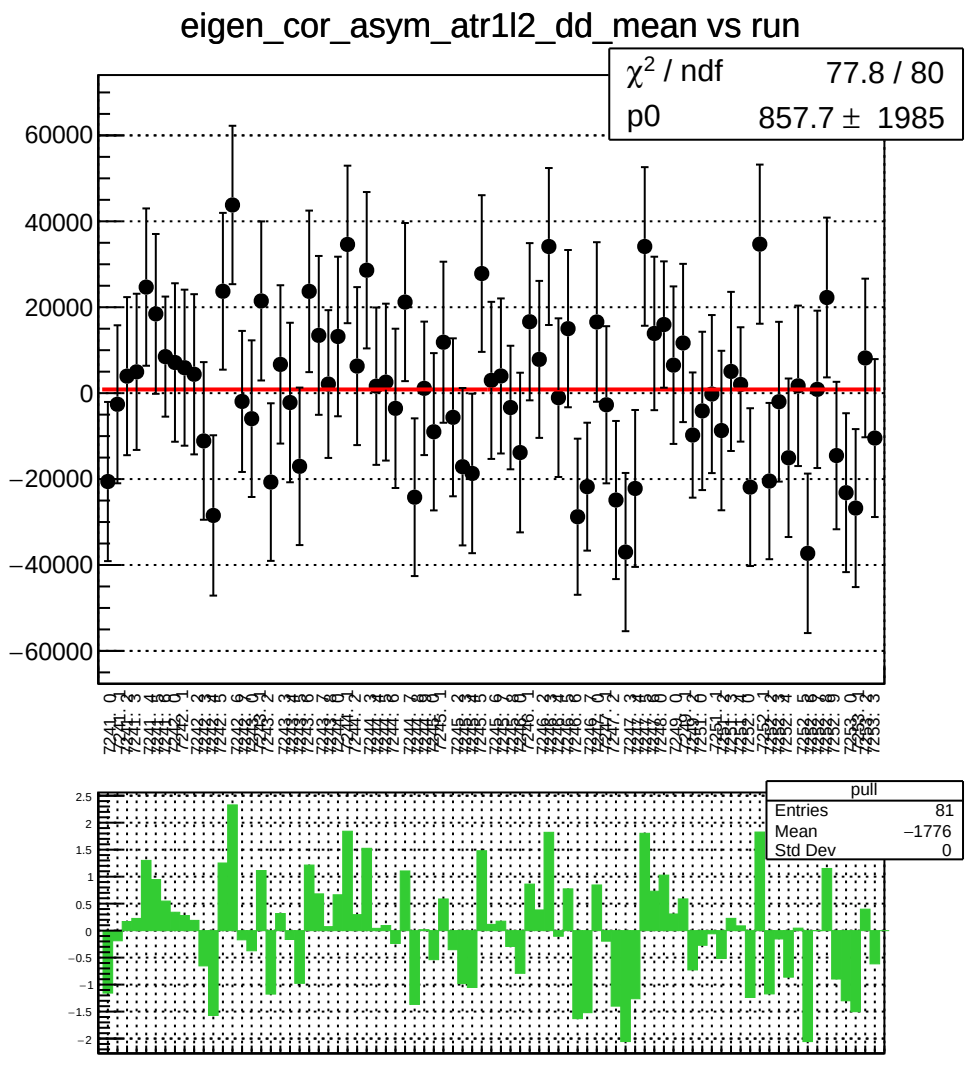

pull1D
Entries 81
Mean 0.002853
Std Dev 0.9801

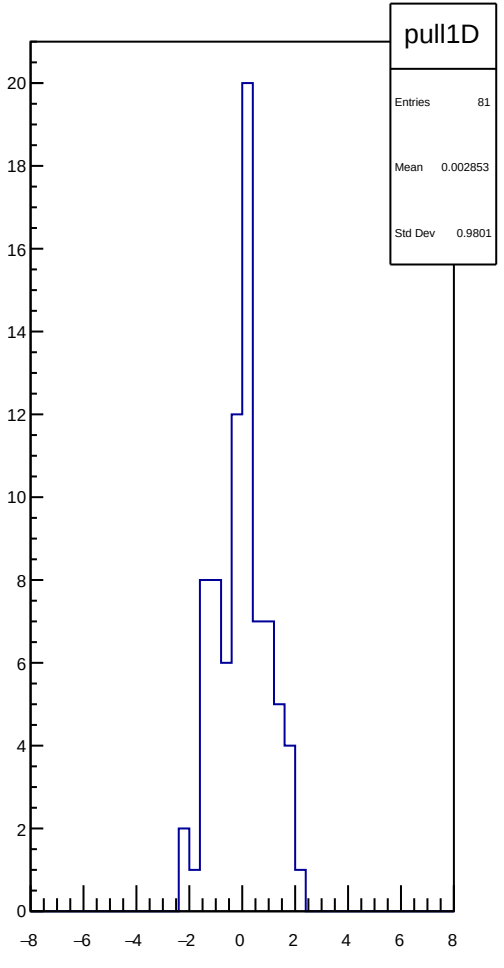

cor_asym_atr1l2_dd_rms vs run
χ^2 / ndf 89.24 / 80
p0 1747 ± 1.404
1800
1780
1760
1740
1720
1700

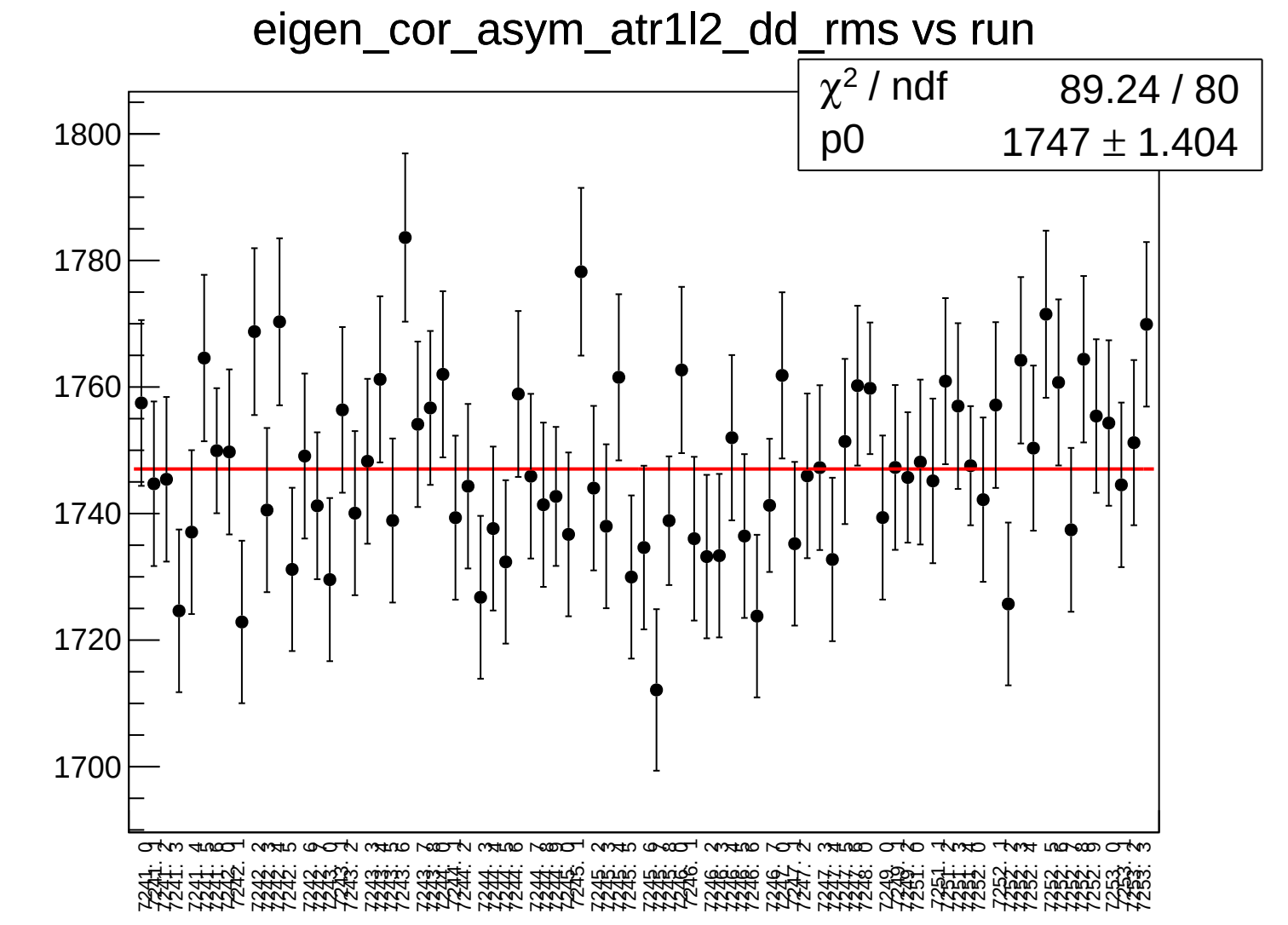

asym_atr1l2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 94.68 / 80
p0 805.3 ± 4232
150
100
50
0
−50
−100
pull
Entries 81
Mean −98.62
Std Dev 0
2
1
0
−1
−2

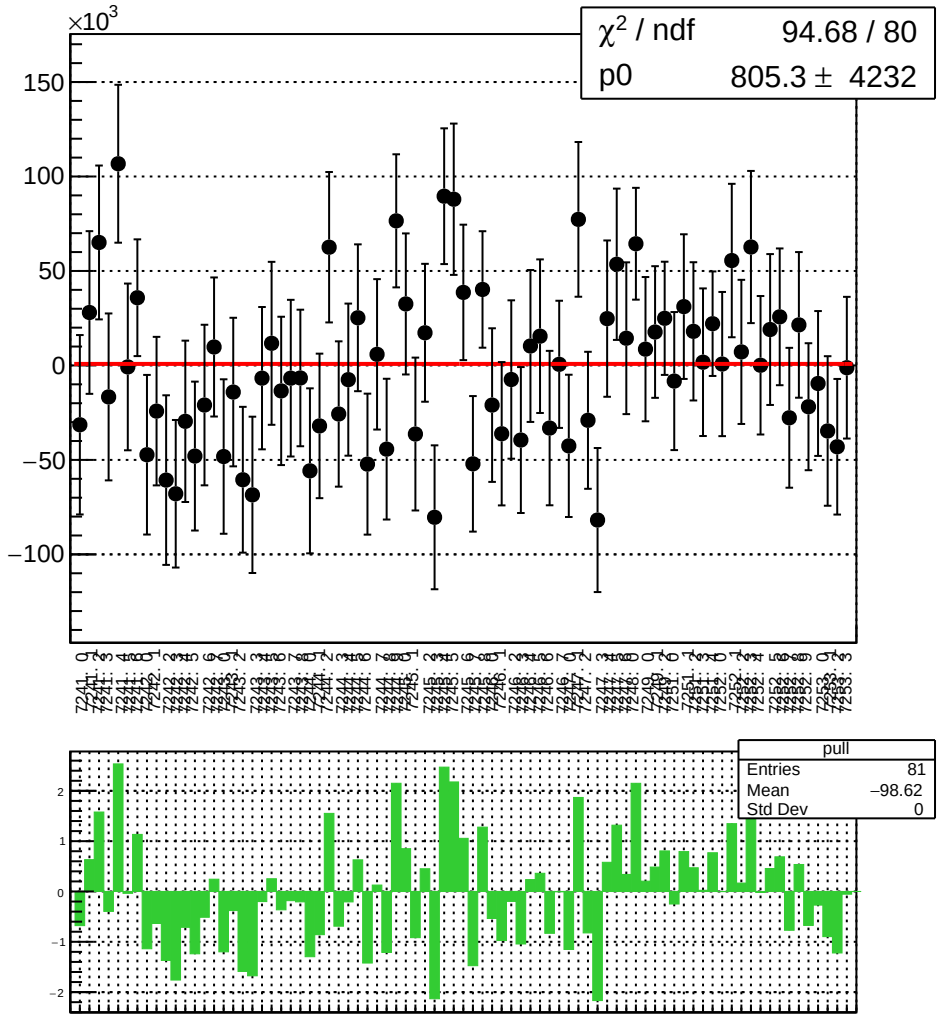

pull1D
Entries 81
Mean −0.0261
Std Dev 1.081
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

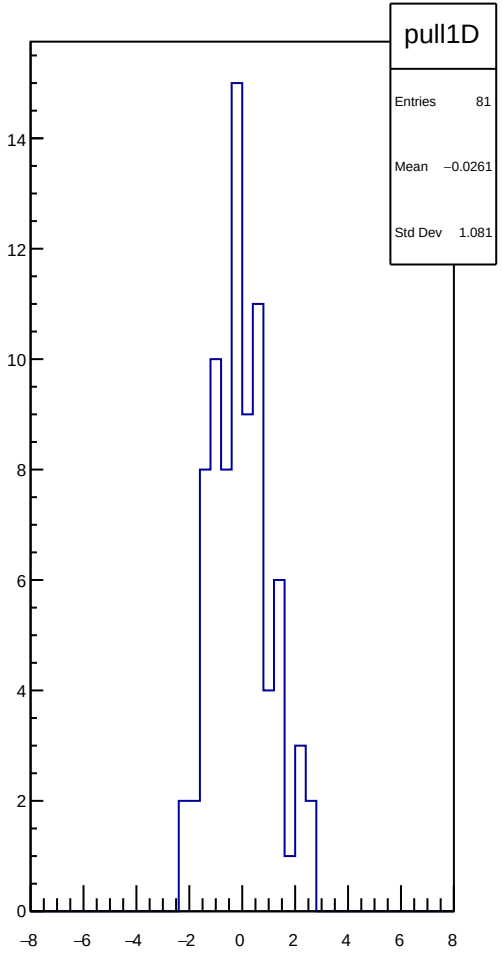

asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 5208 / 80
p0 3719 ± 2.993
4600
4400
4200
4000
3800
3600
3400
3200

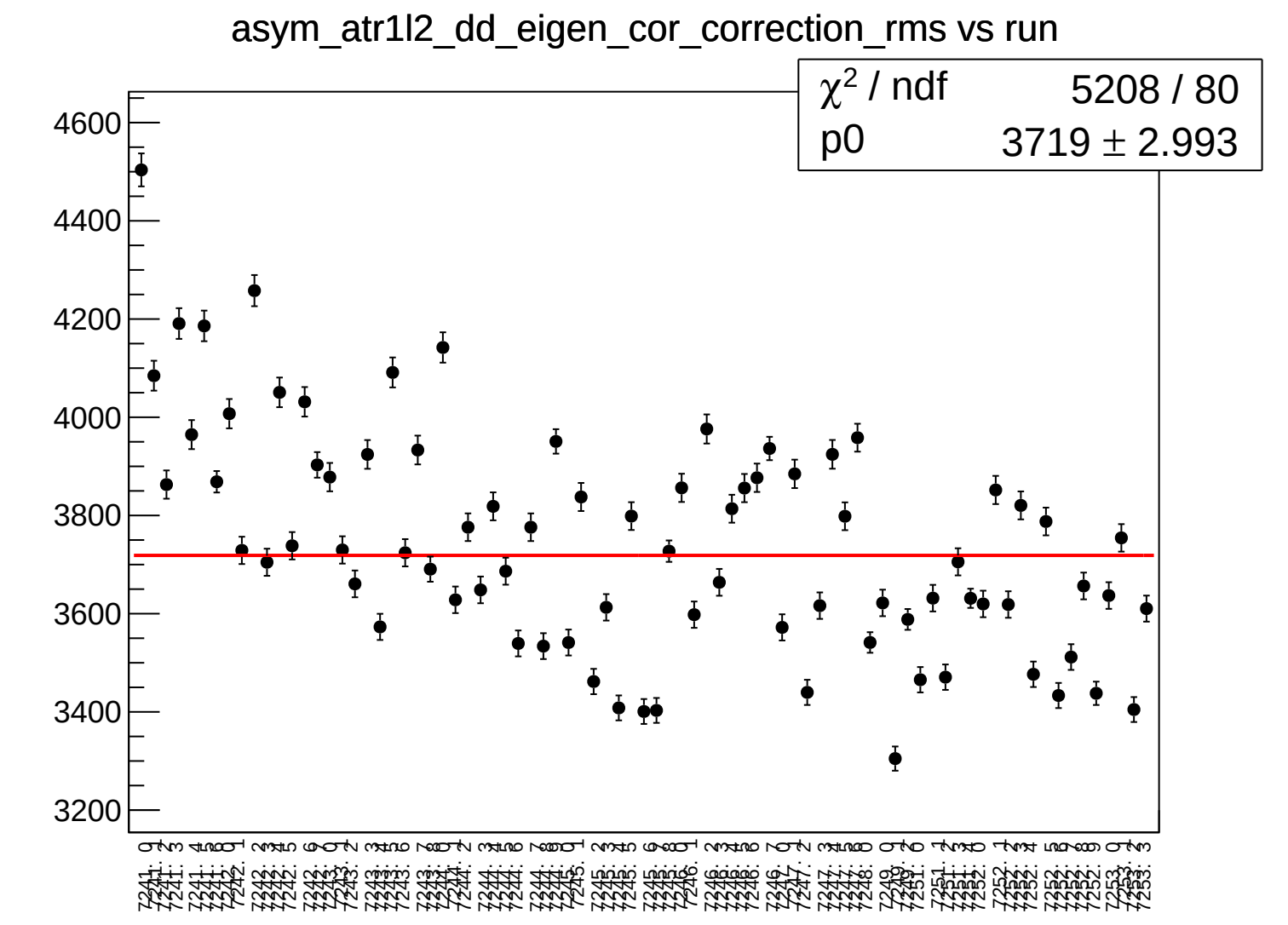

eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 77.8 / 80
p0 857.7 ± 1985
pull
Entries 81
Mean −1776
Std Dev 0

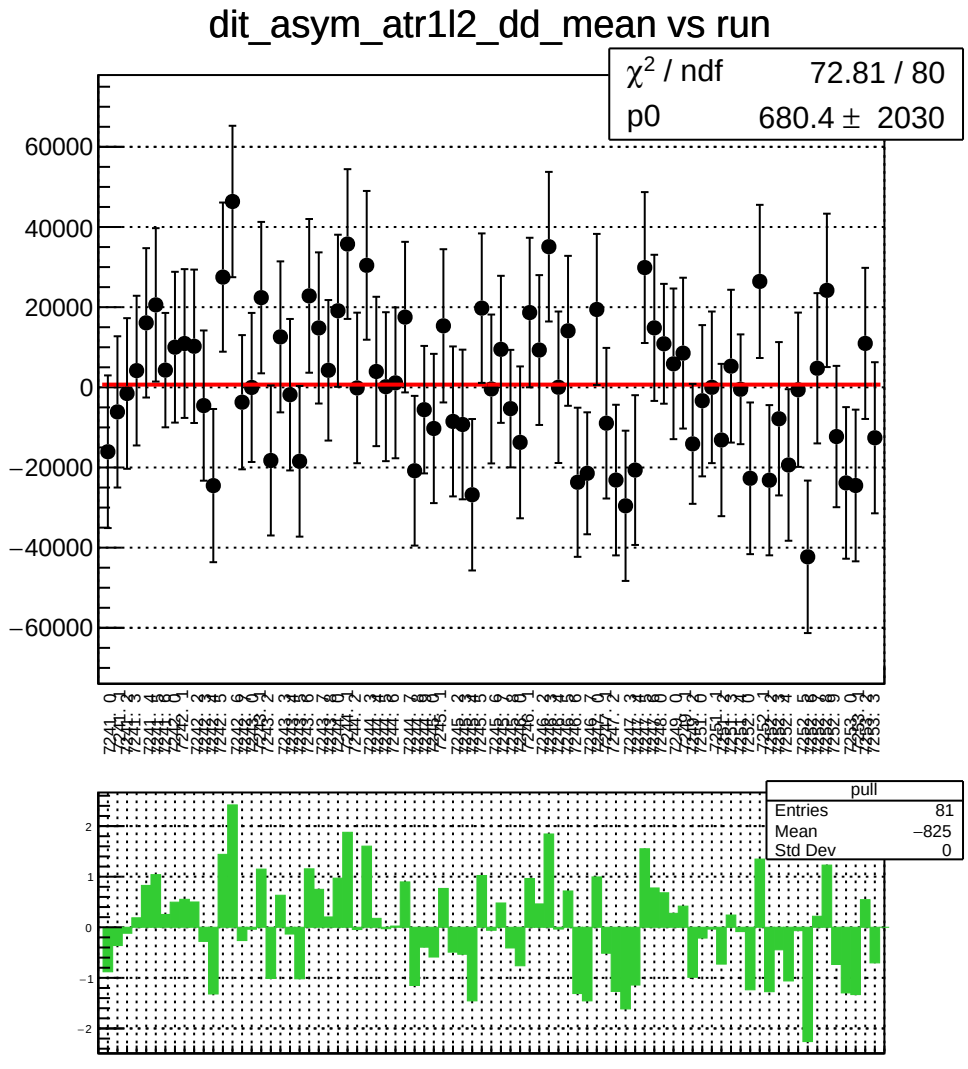

pull1D
Entries 81
Mean 0.002853
Std Dev 0.9801

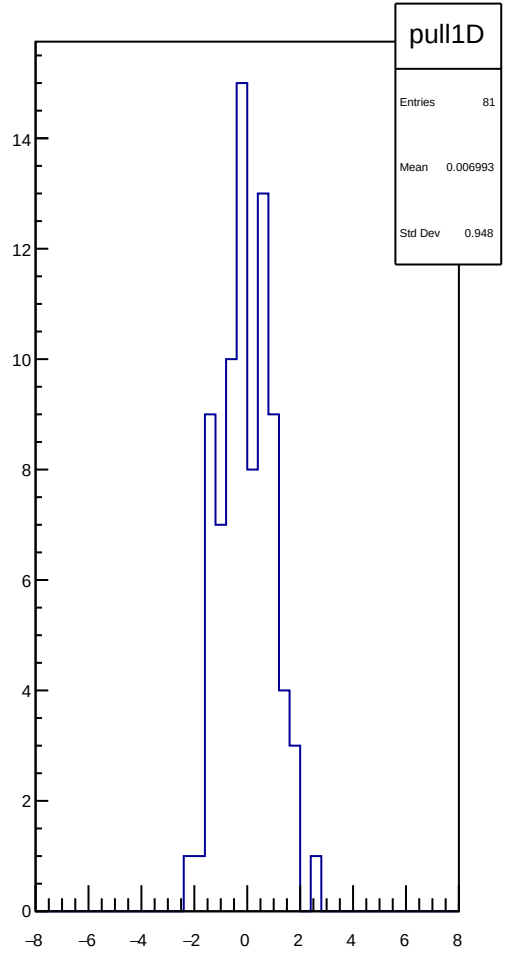

eigen_cor_asym_atr1l2_dd_rms vs run
χ² / ndf 89.24 / 80
p0 1747 ± 1.404
1800
1780
1760
1740
1720
1700

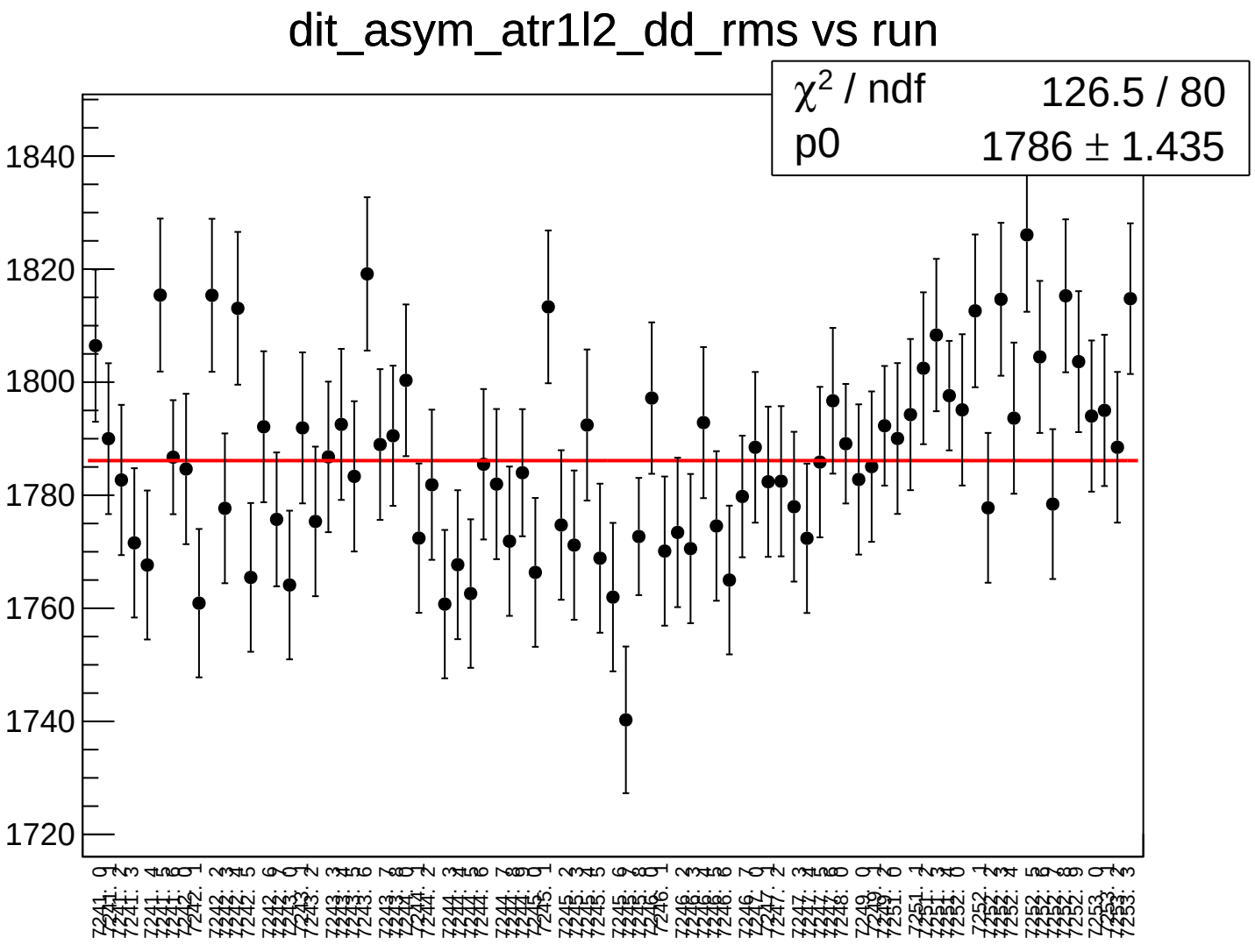

asym_atr1l2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 94.68 / 80
p0 805.3 ± 4232
150
100
50
0
−50
−100
pull
Entries 81
Mean −98.62
Std Dev 0
2
1
0
−1
−2

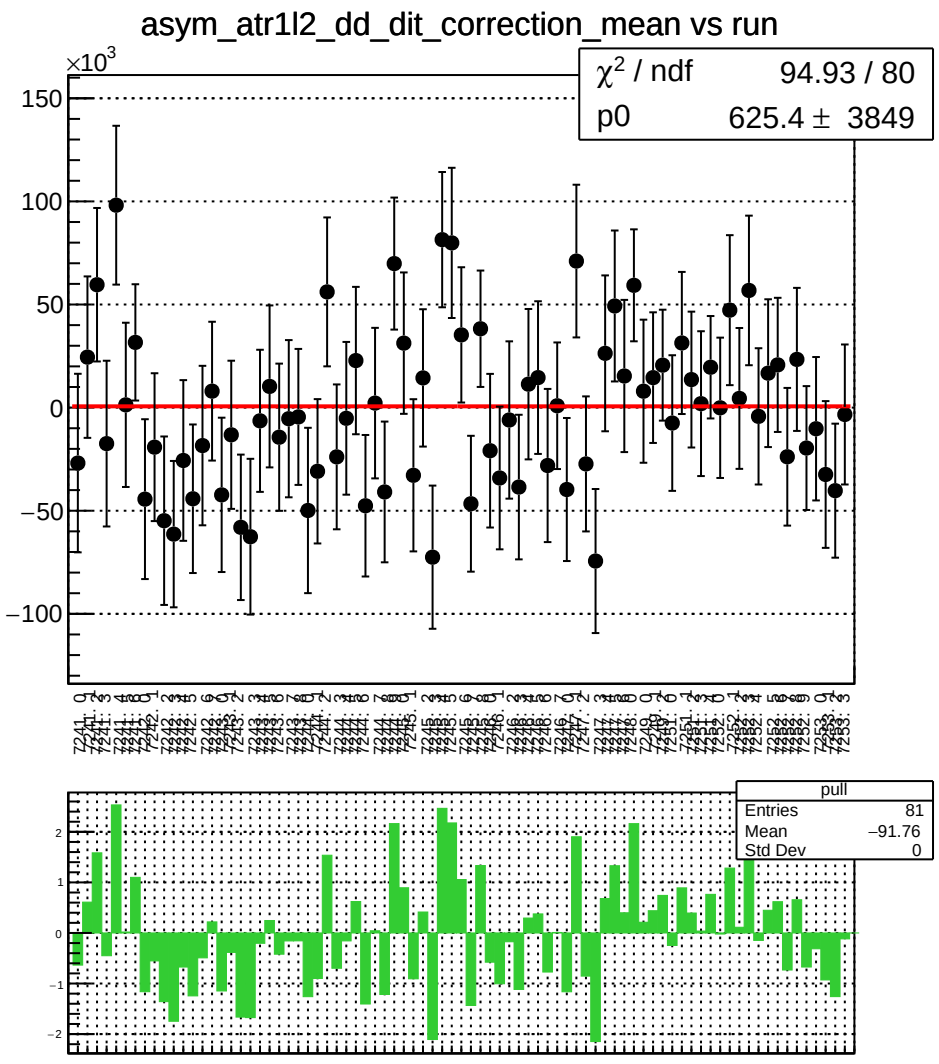

pull1D
Entries 81
Mean −0.0261
Std Dev 1.081
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

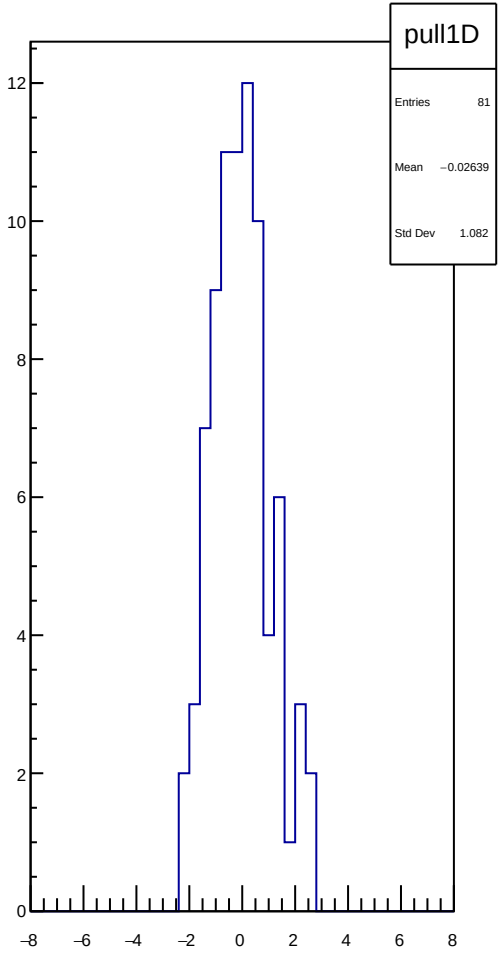

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 5208 / 80
p0 3719 ± 2.993
4600
4400
4200
4000
3800
3600
3400
3200

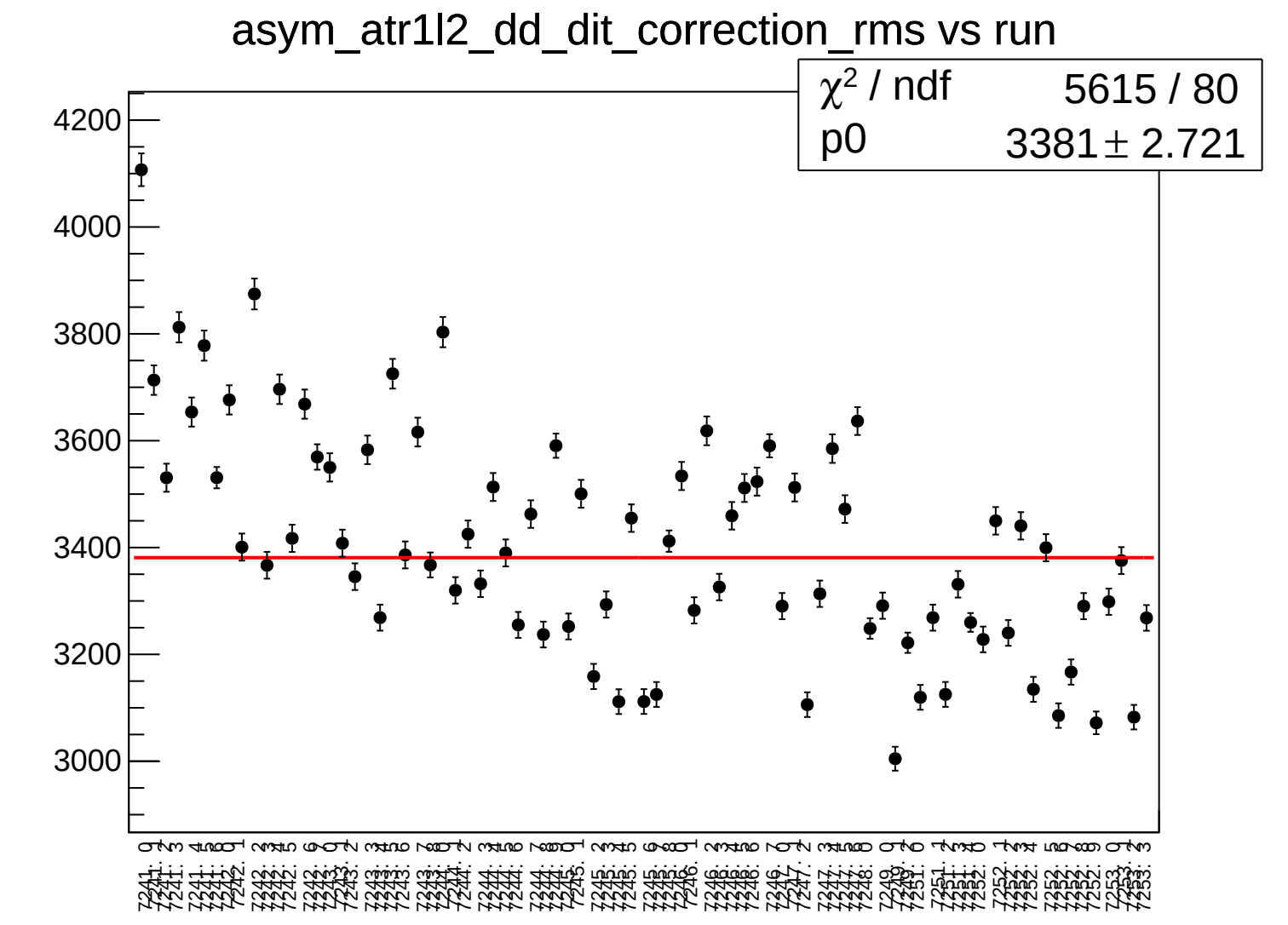

dit_asym_atr1l2_dd_mean vs run
χ² / ndf 72.81 / 80
p0 680.4 ± 2030
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −825
Std Dev 0
2
1
0
−1
−2

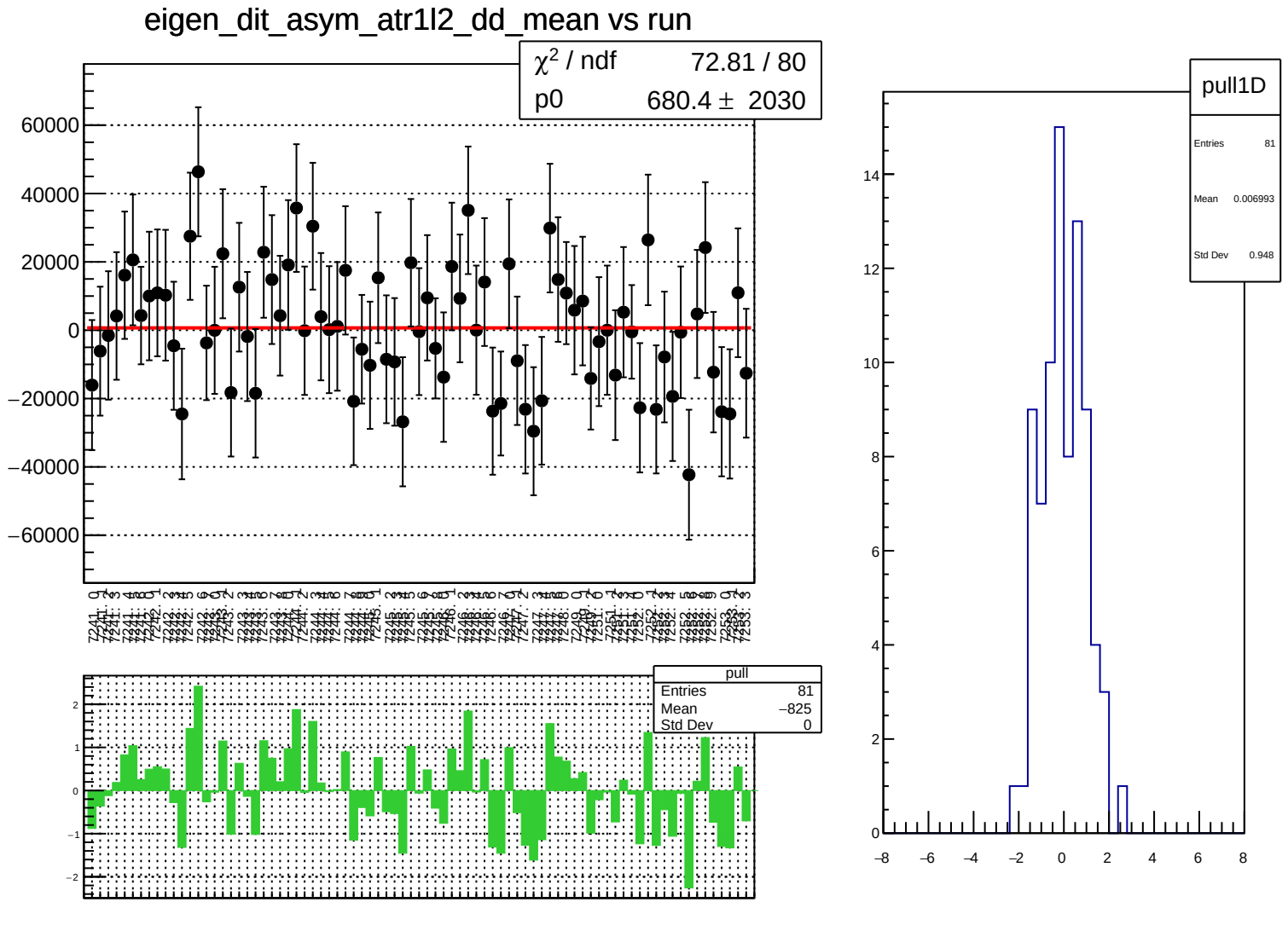

pull1D
Entries 81
Mean 0.006993
Std Dev 0.948
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

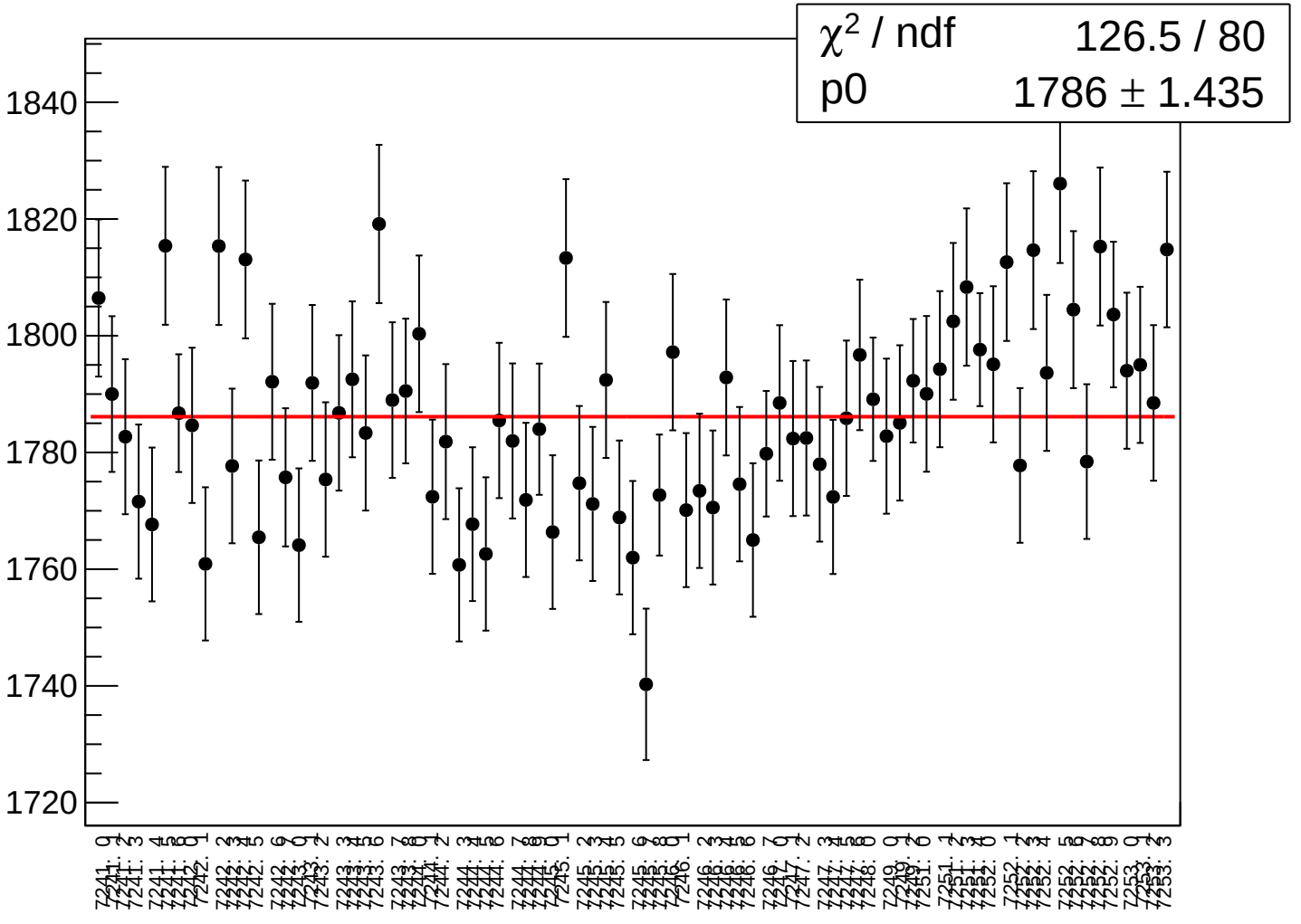

dit_asym_atr1l2_dd_rms vs run
χ² / ndf 126.5 / 80
p0 1786 ± 1.435
1840
1820
1800
1780
1760
1740
1720

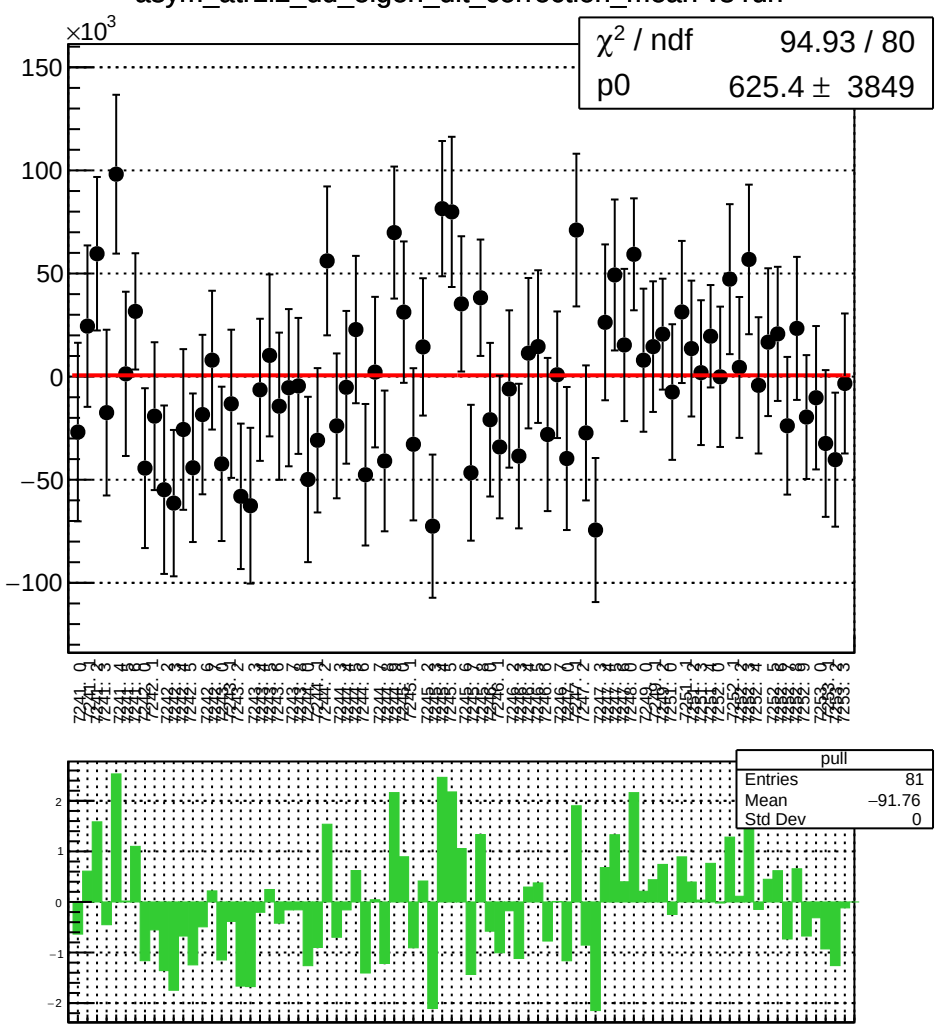

asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 94.93 / 80
p0 625.4 ± 3849
150
100
50
0
−50
−100
pull
Entries 81
Mean −91.76
Std Dev 0
2
1
0
−1
−2

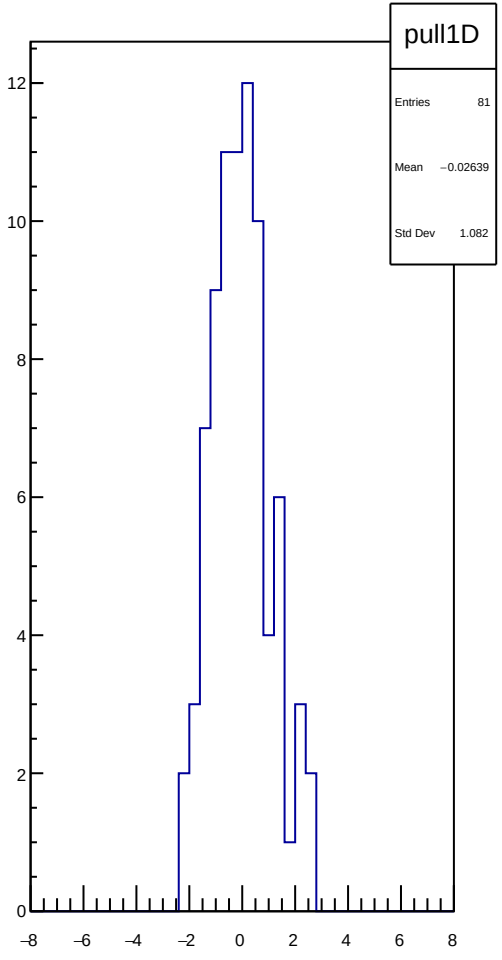

pull1D
Entries 81
Mean −0.02639
Std Dev 1.082
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

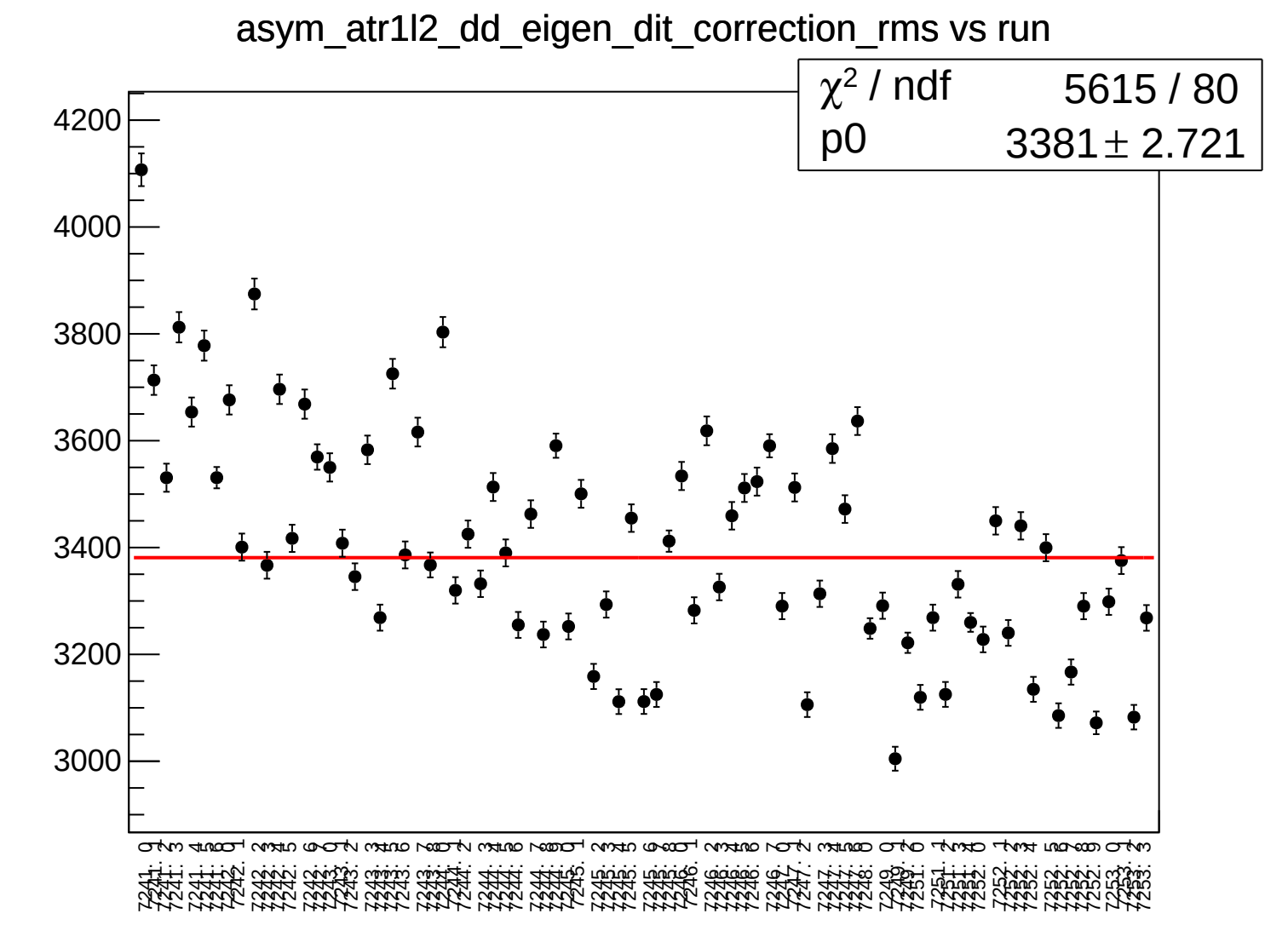

asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 5615 / 80
p0 3381 ± 2.721
4200
4000
3800
3600
3400
3200
3000

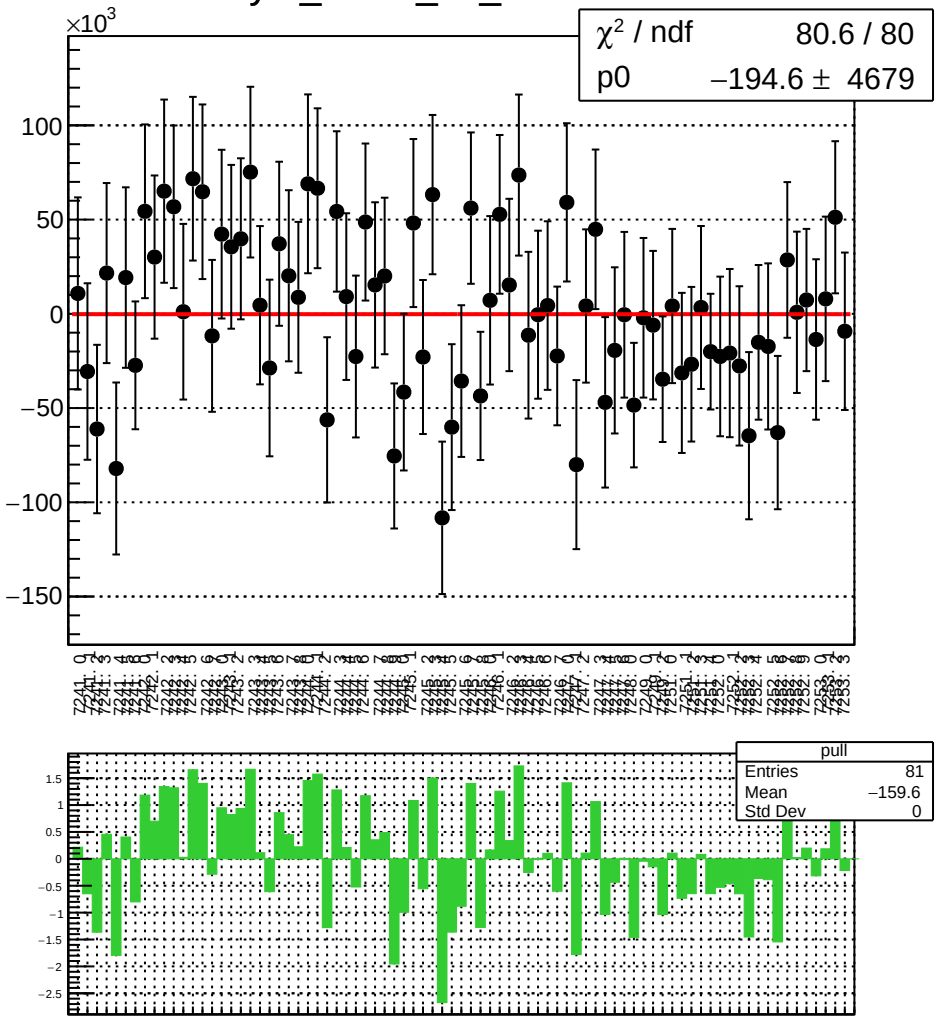

eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 72.81 / 80
p0 680.4 ± 2030
pull
Entries 81
Mean −825
Std Dev 0
pull1D
Entries 81
Mean 0.006993
Std Dev 0.948

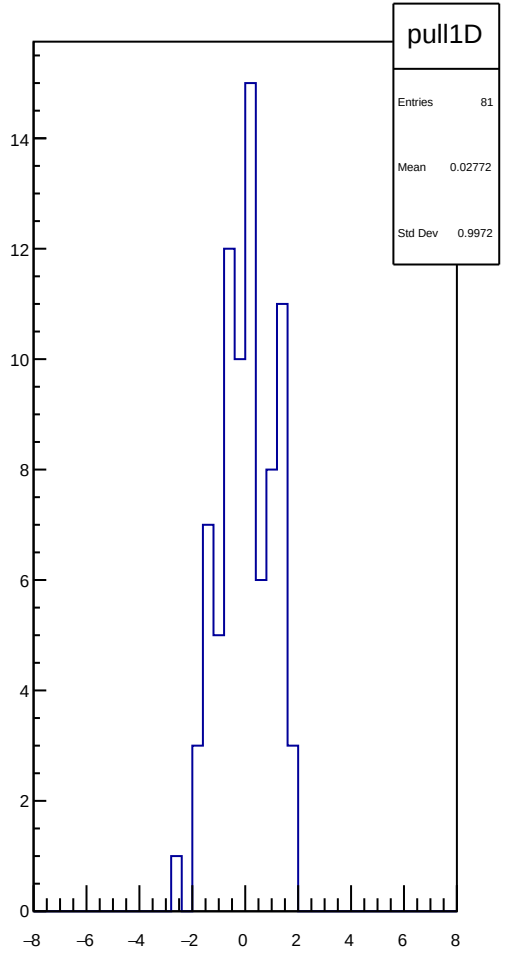

eigen_dit_asym_atr1l2_dd_rms vs run
χ^2 / ndf 126.5 / 80
p0 1786 ± 1.435
1840
1820
1800
1780
1760
1740
1720

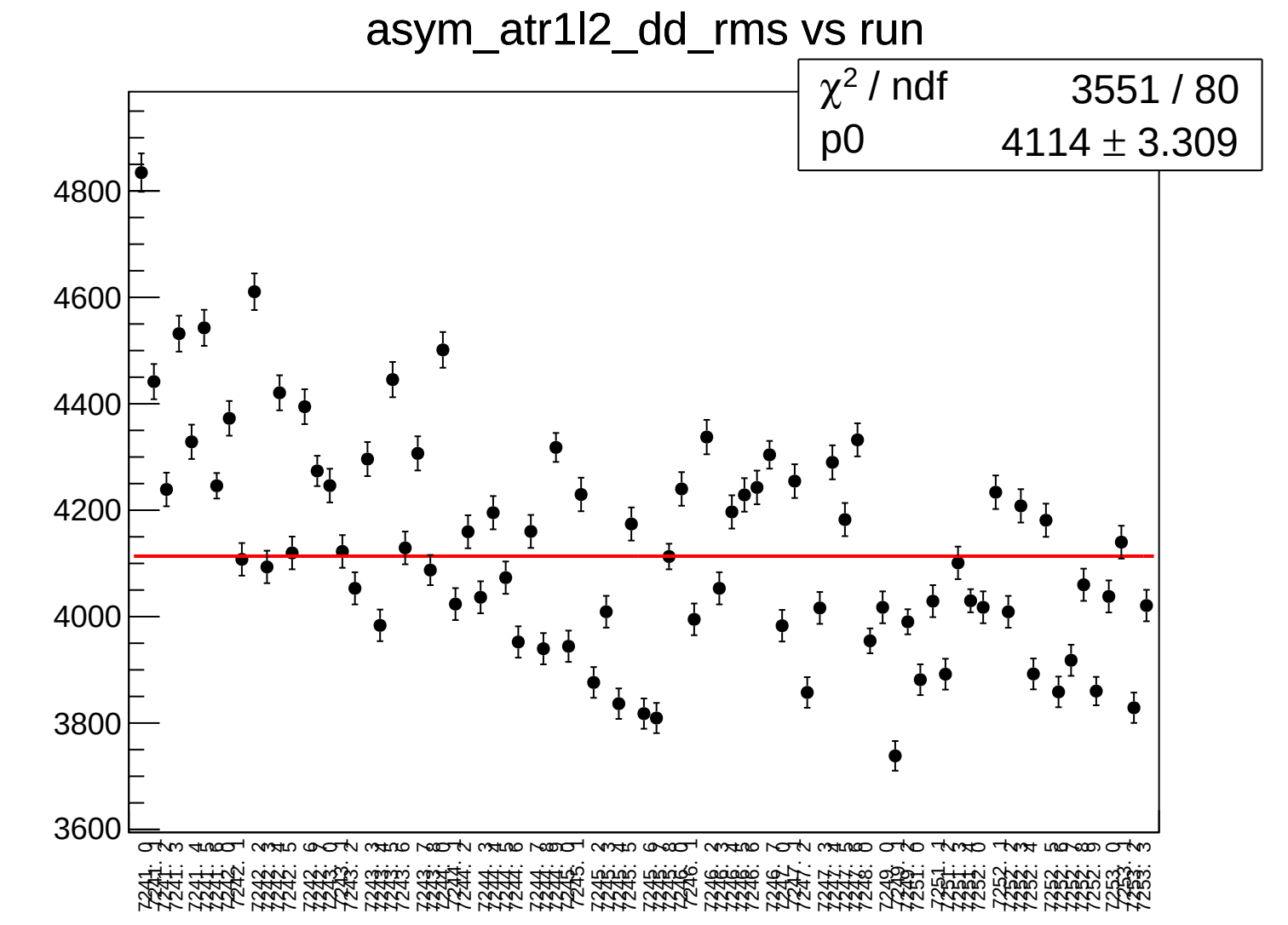

asym_atr1l2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 94.93 / 80
p0 625.4 ± 3849
150
100
50
0
−50
−100
pull
Entries 81
Mean −91.76
Std Dev 0
2
1
0
−1
−2

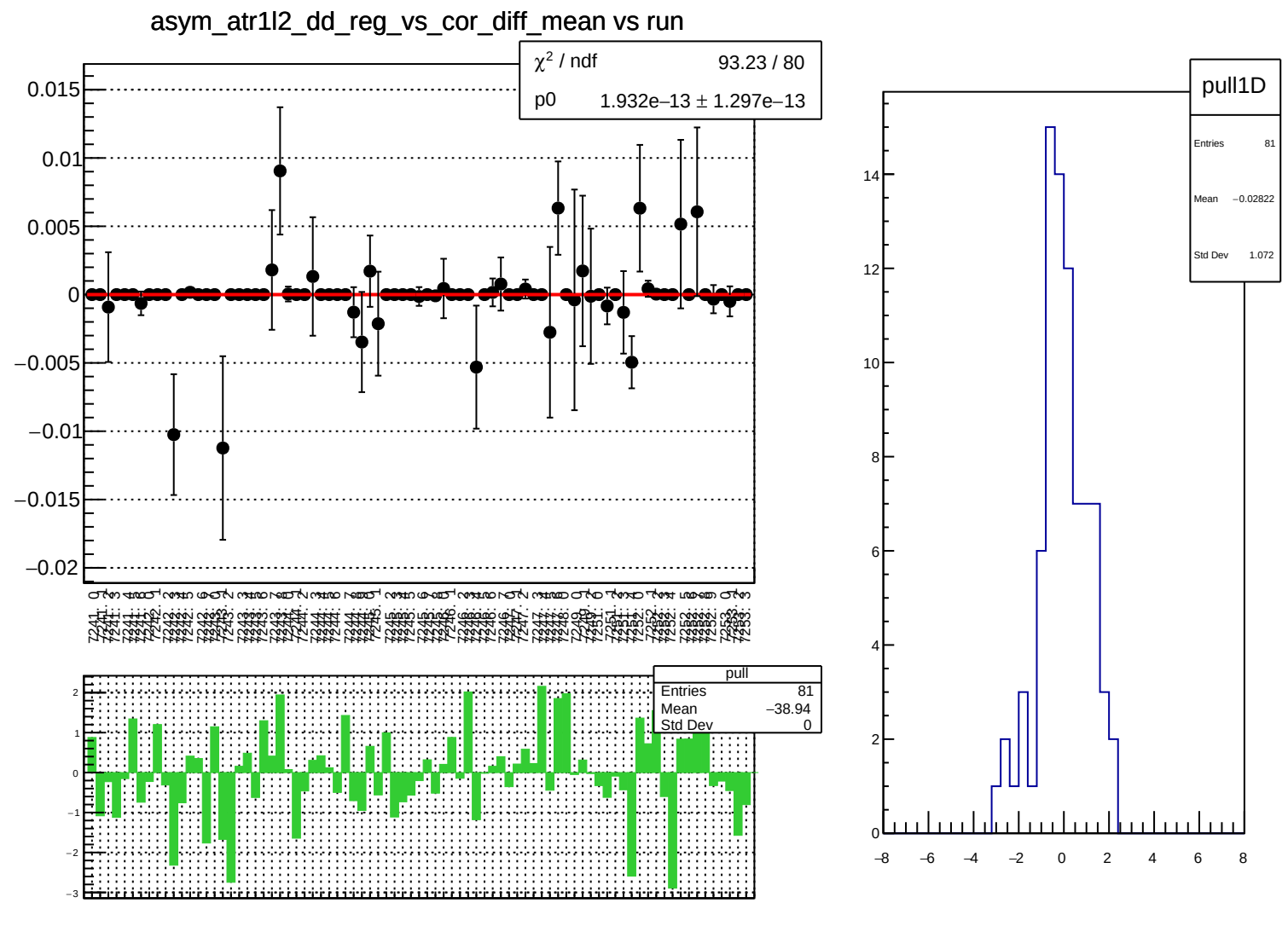

pull1D
Entries 81
Mean −0.02639
Std Dev 1.082
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

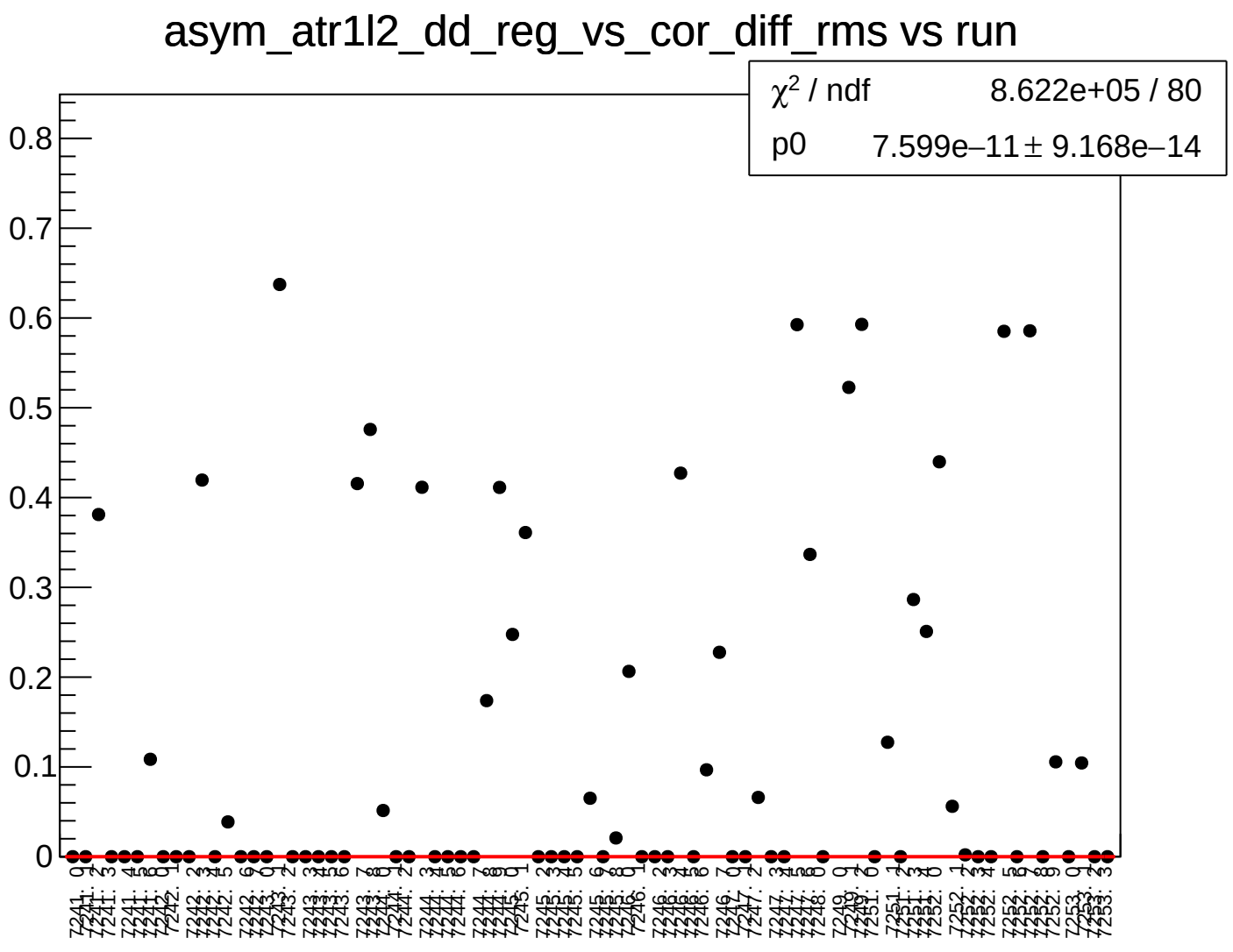

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 5615 / 80
p0 3381 ± 2.721
4200
4000
3800
3600
3400
3200
3000

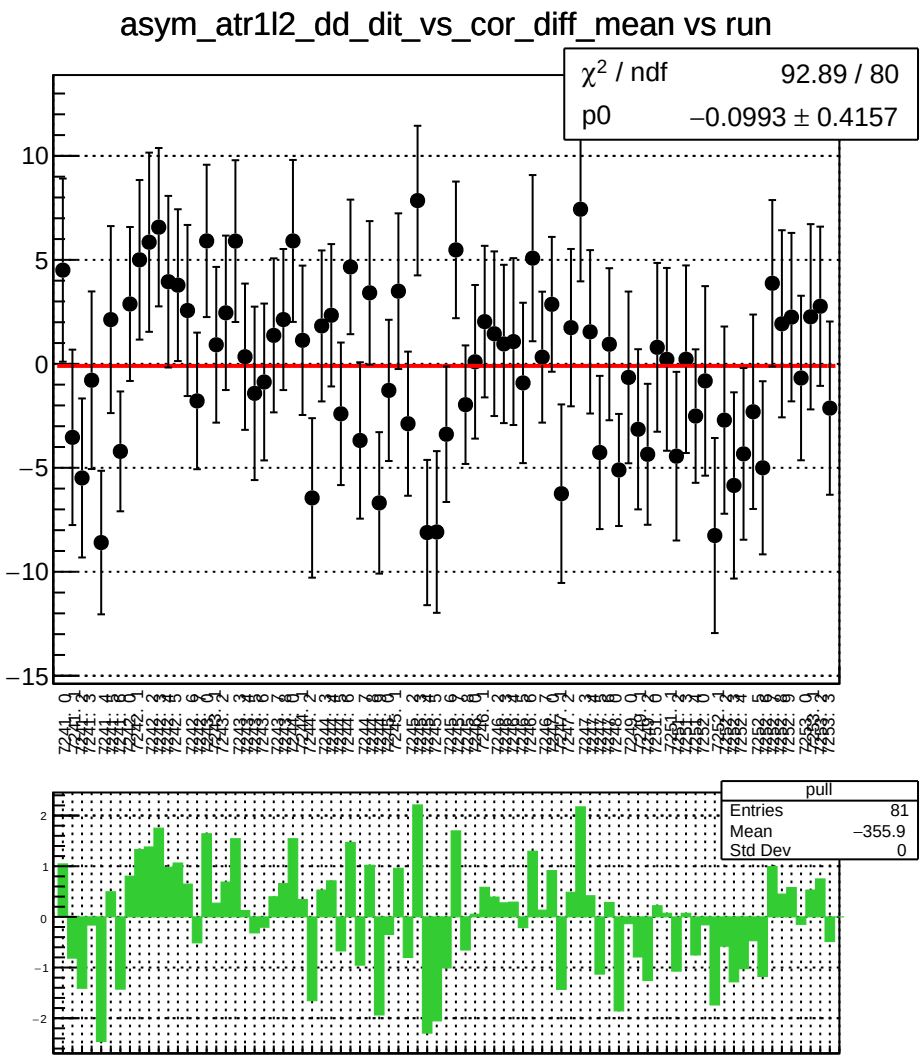

asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 80.6 / 80
p0 −194.6 ± 4679
100
50
0
−50
−100
−150
pull
Entries 81
Mean −159.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

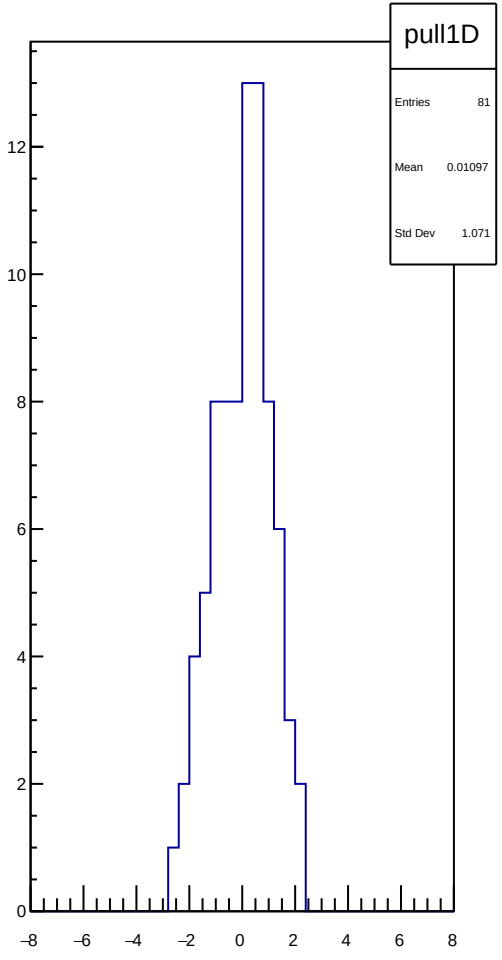

pull1D
Entries 81
Mean 0.02772
Std Dev 0.9972
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

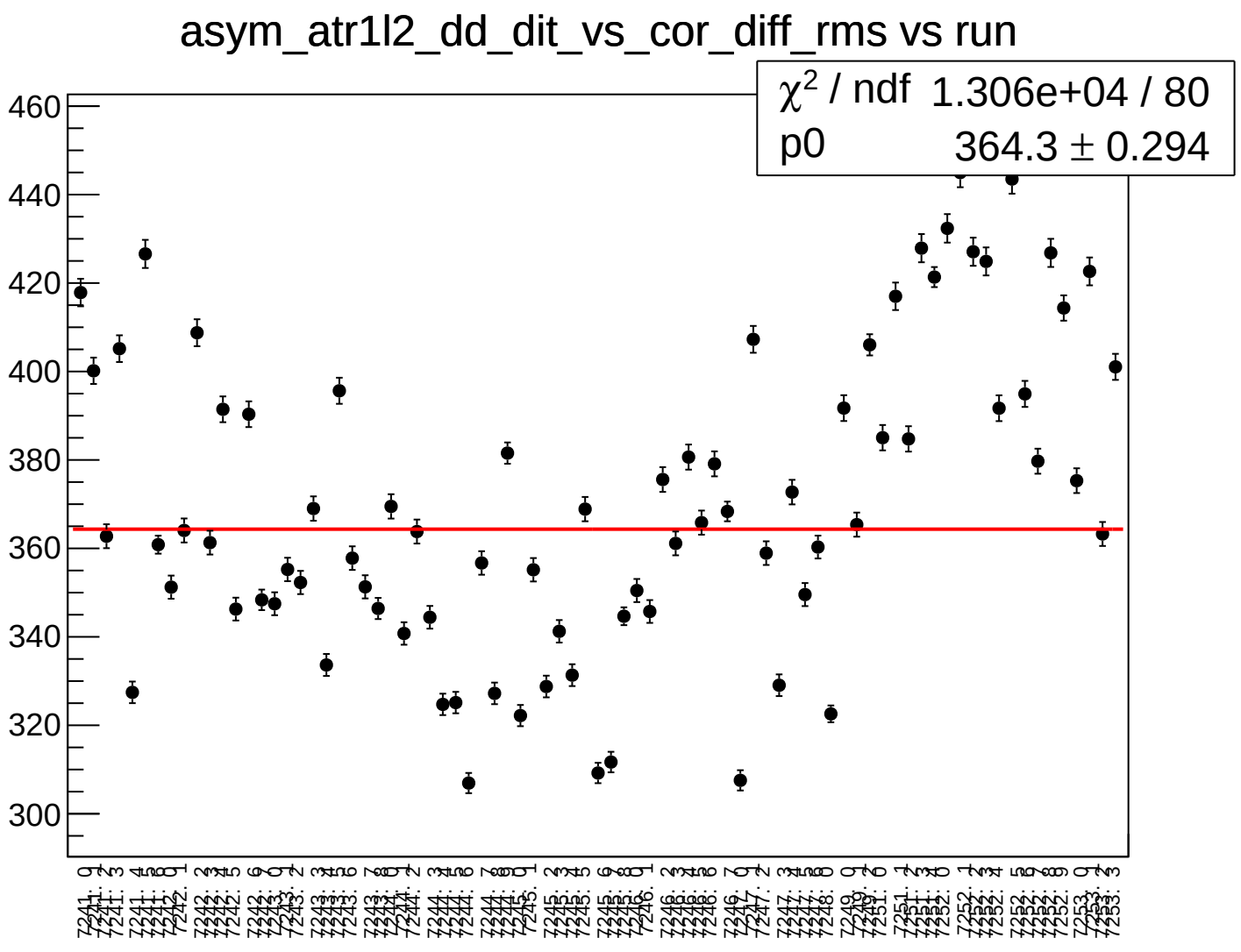

asym_atr1l2_dd_rms vs run
χ² / ndf 3551 / 80
p0 4114 ± 3.309
4800
4600
4400
4200
4000
3800
3600

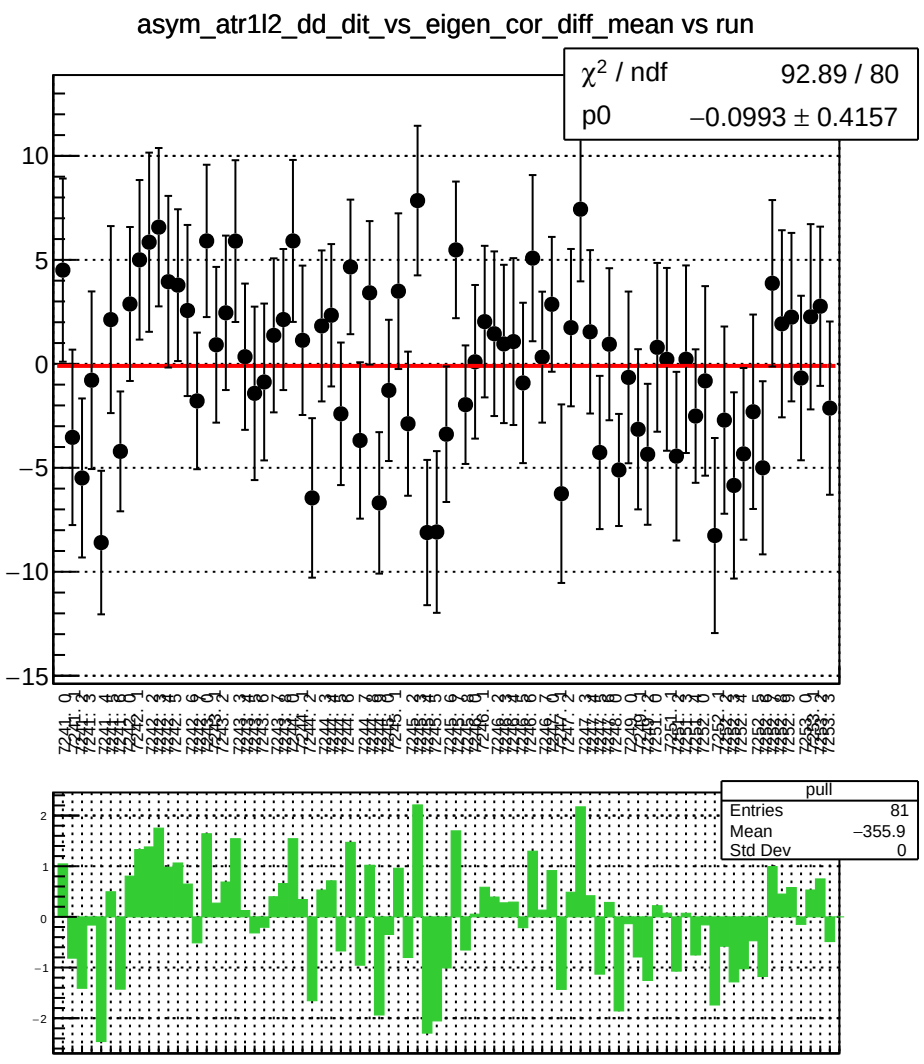

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 93.23 / 80
p0 1.932e−13 ± 1.297e−13
pull
Entries 81
Mean −38.94
Std Dev 0
pull1D
Entries 81
Mean −0.02822
Std Dev 1.072

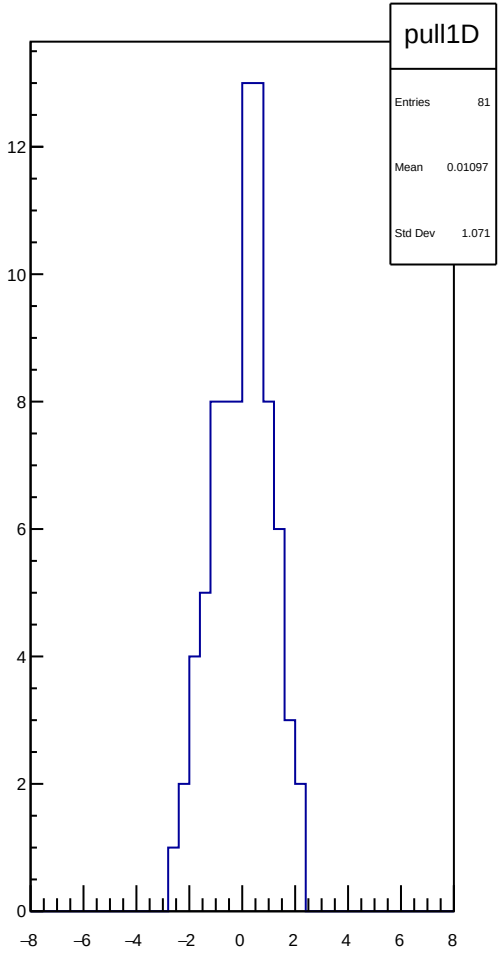

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.622e+05 / 80
p0 7.599e−11 ± 9.168e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

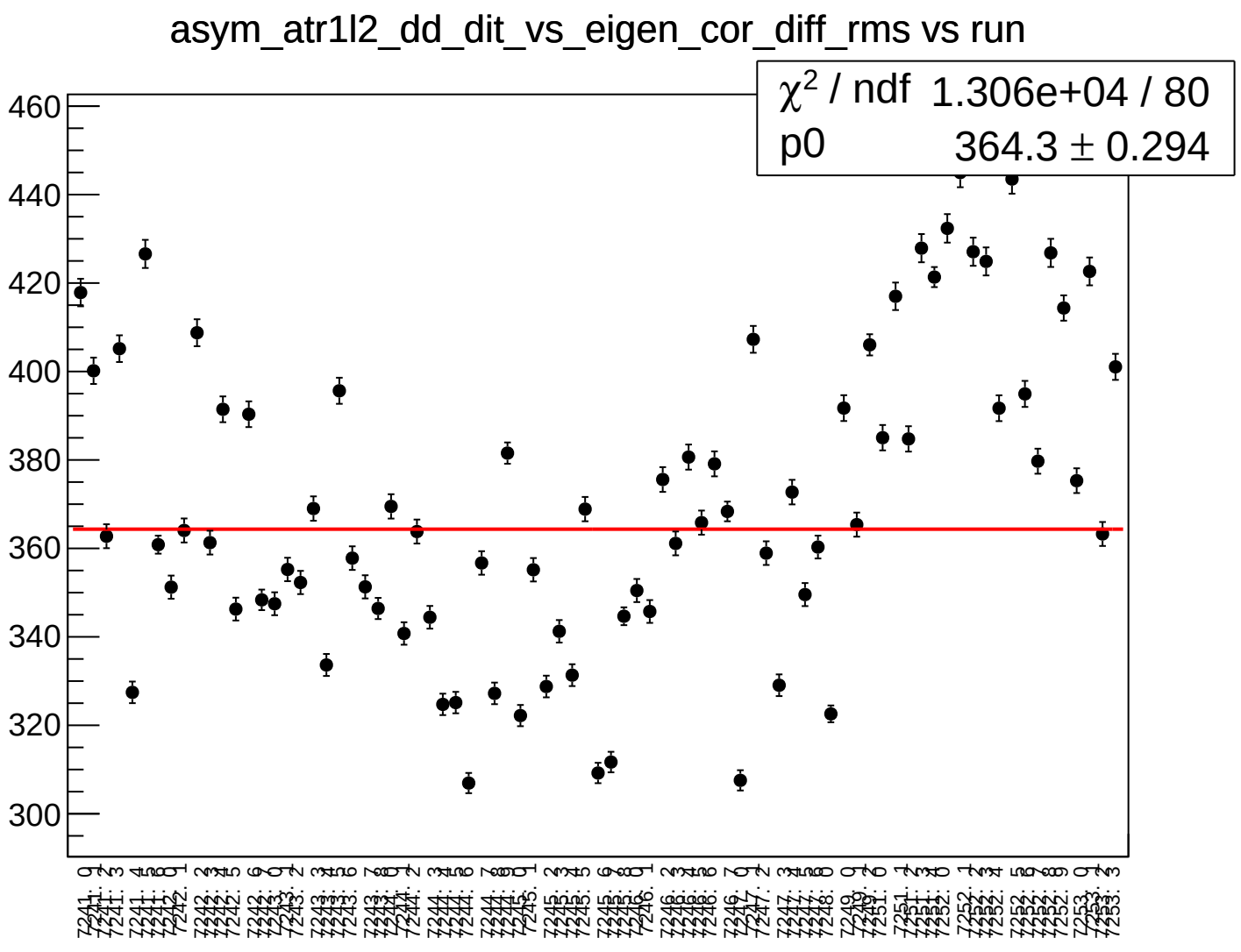

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 92.89 / 80
p0 −0.0993 ± 0.4157
pull
Entries 81
Mean −355.9
Std Dev 0

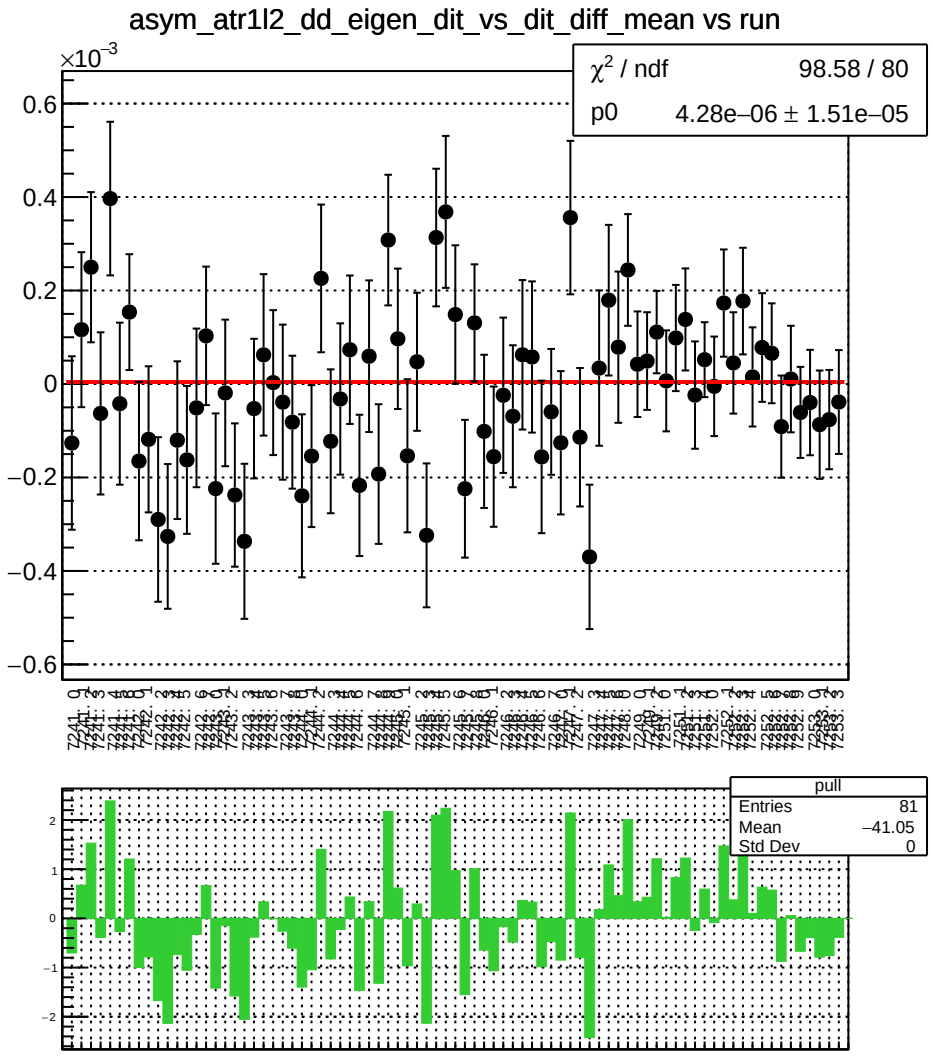

pull1D
Entries 81
Mean 0.01097
Std Dev 1.071

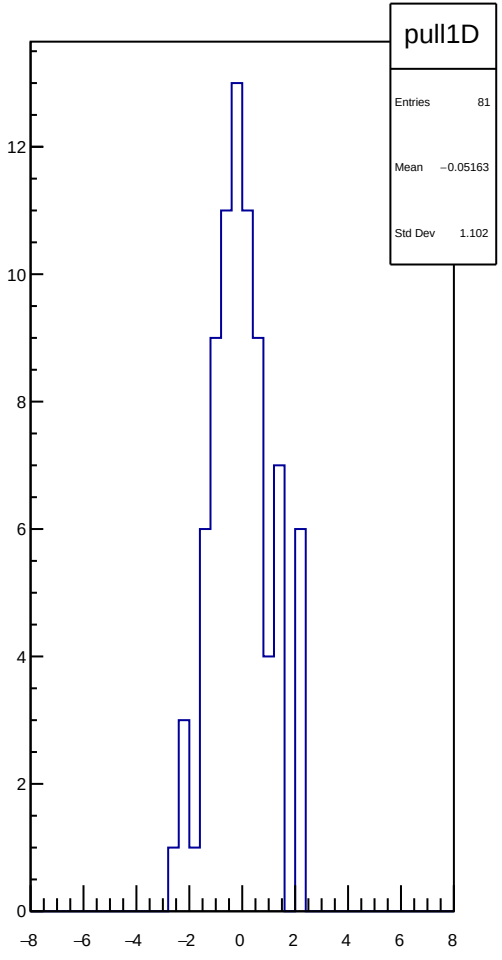

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.306e+04 / 80
p0 364.3 ± 0.294
460
440
420
400
380
360
340
320
300

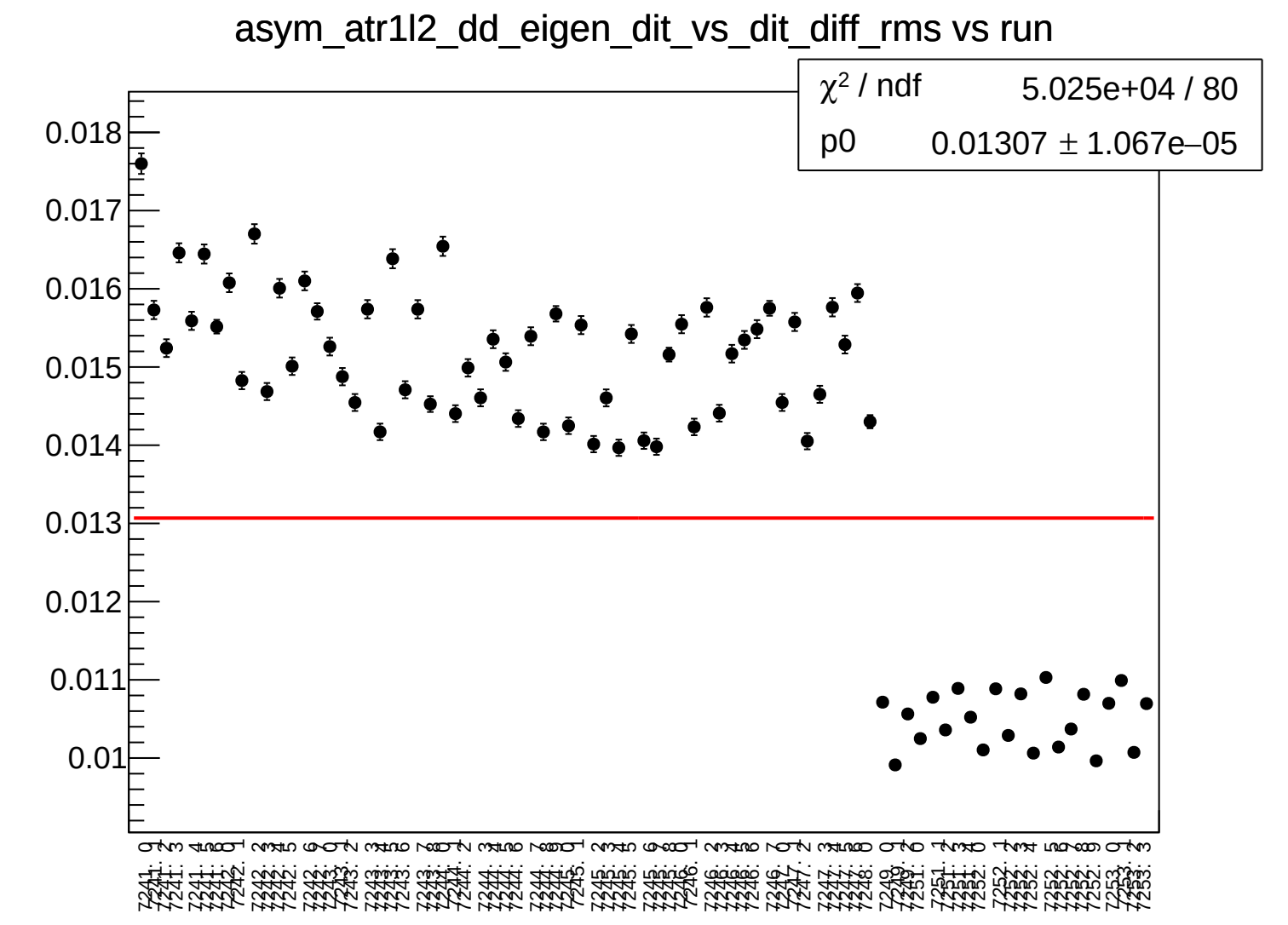

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.89 / 80
p0 −0.0993 ± 0.4157
pull
Entries 81
Mean −355.9
Std Dev 0

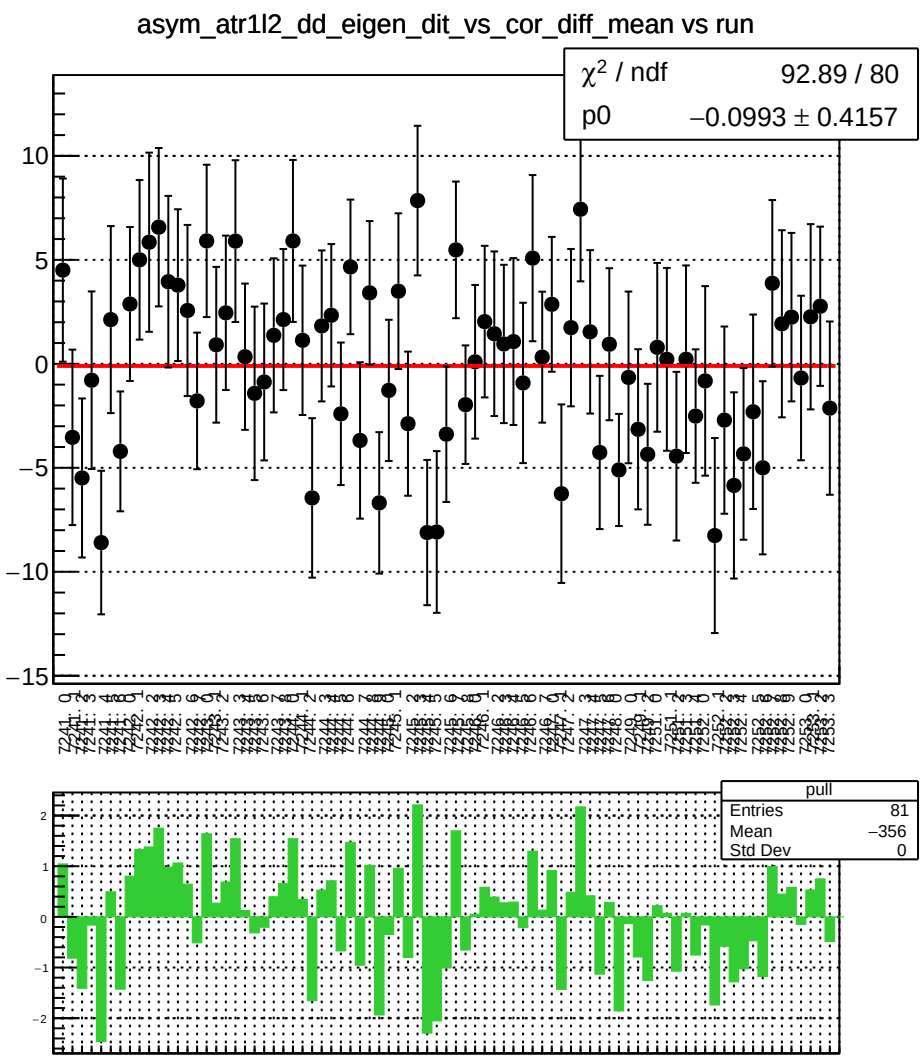

pull1D
Entries 81
Mean 0.01097
Std Dev 1.071

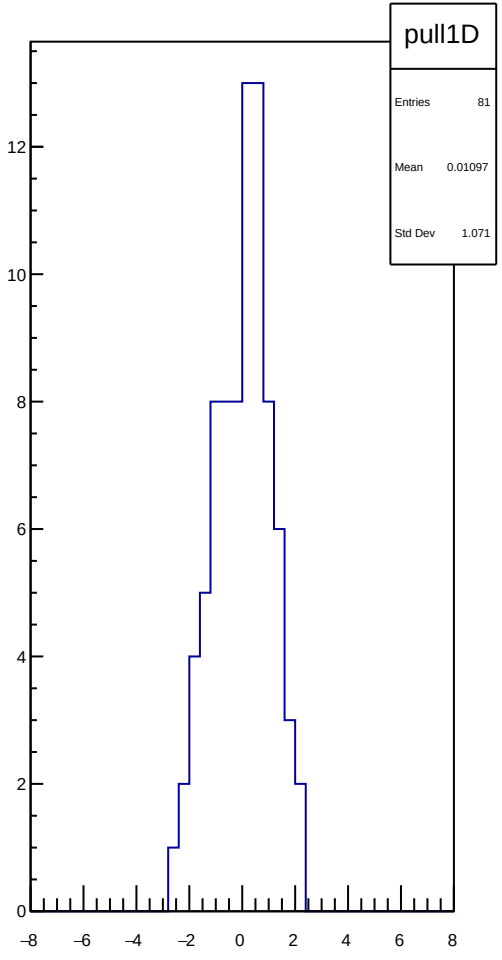

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.306e+04 / 80
p0 364.3 ± 0.294
460
440
420
400
380
360
340
320
300

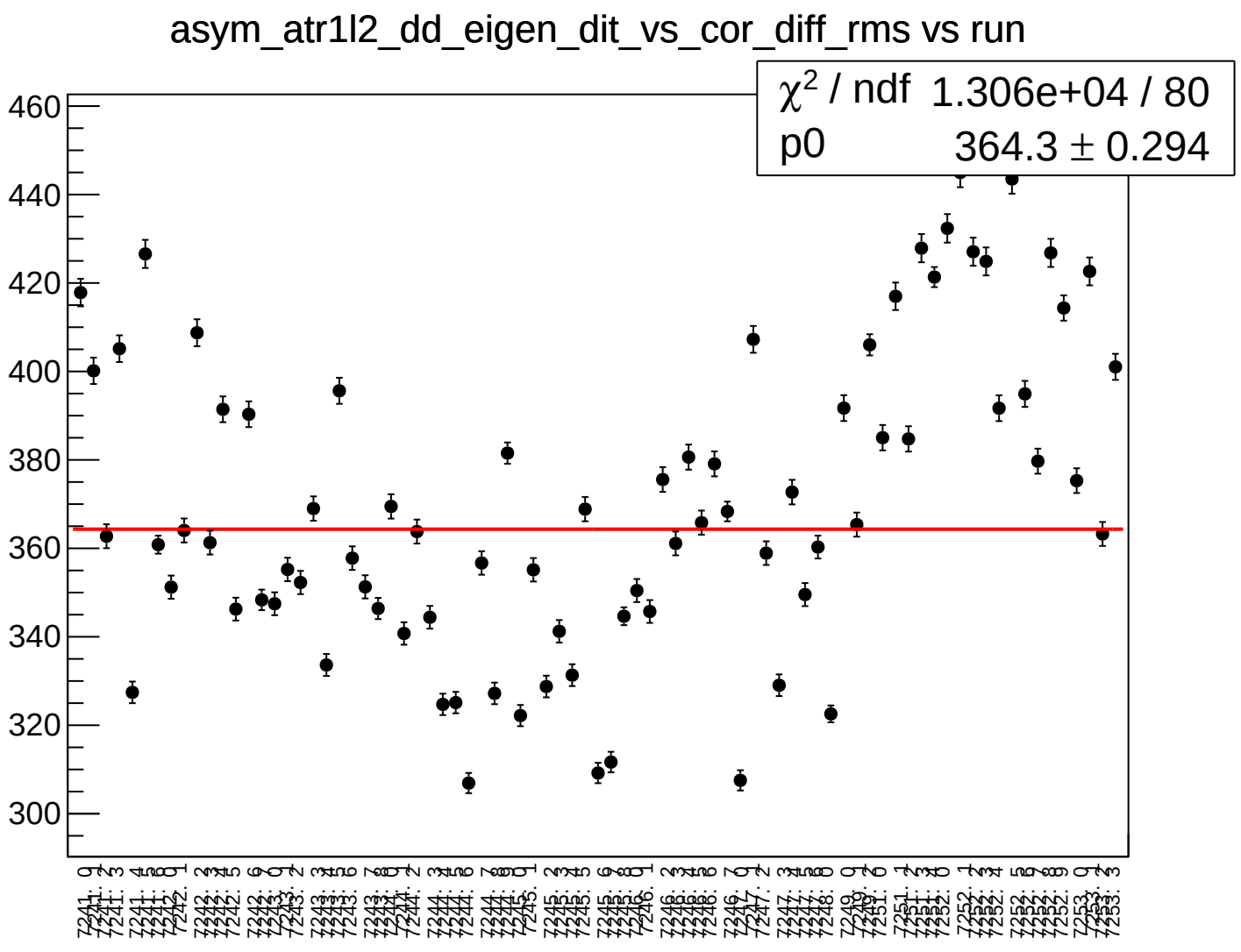

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.58 / 80
p0 4.28e−06 ± 1.51e−05
pull
Entries 81
Mean −41.05
Std Dev 0

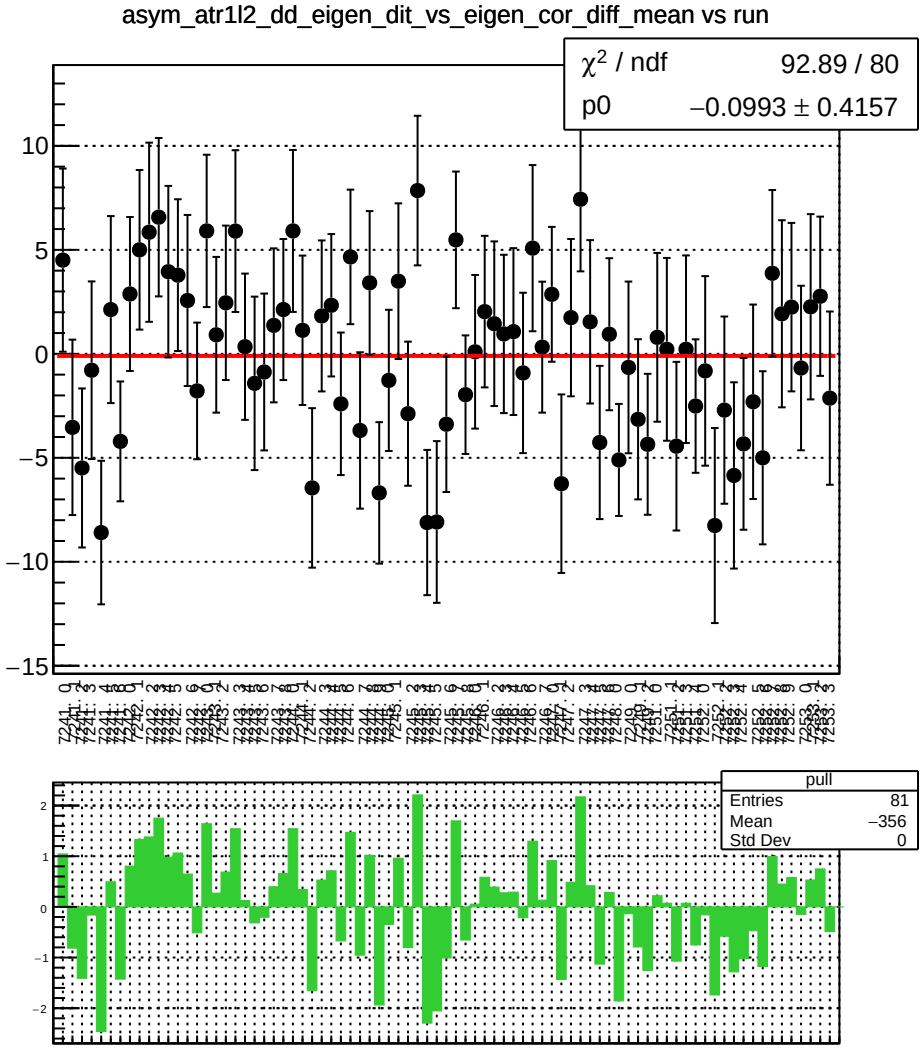

pull1D
Entries 81
Mean −0.05163
Std Dev 1.102

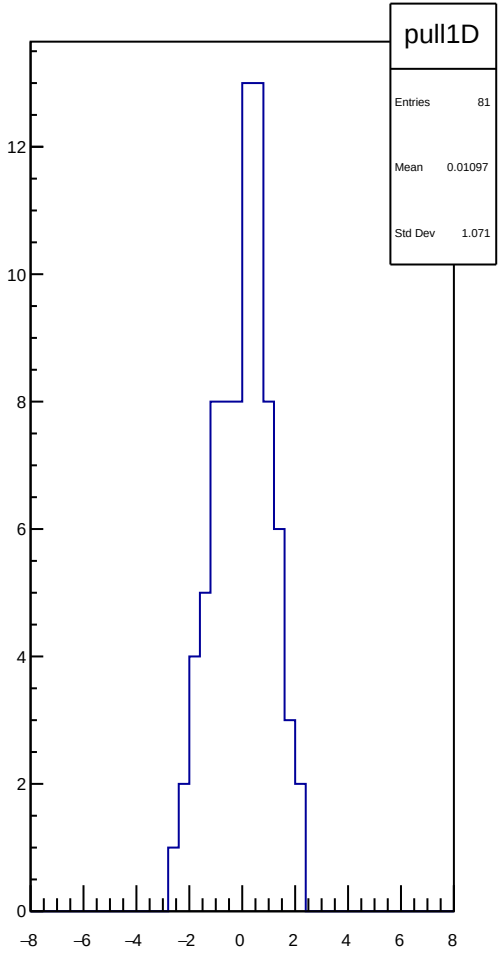

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.025e+04 / 80
p0 0.01307 ± 1.067e−05
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01

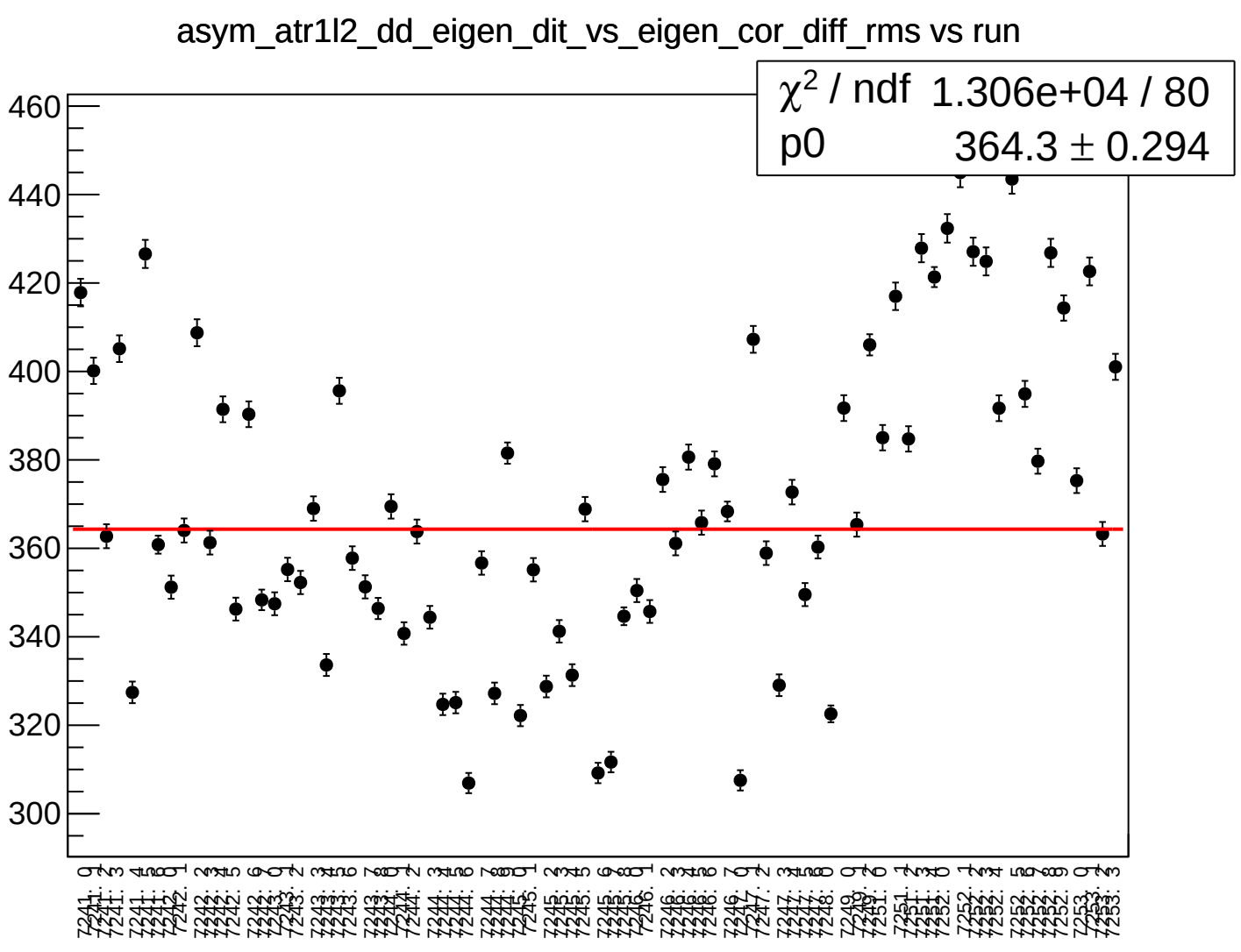

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.89 / 80
p0 −0.0993 ± 0.4157
pull
Entries 81
Mean −356
Std Dev 0

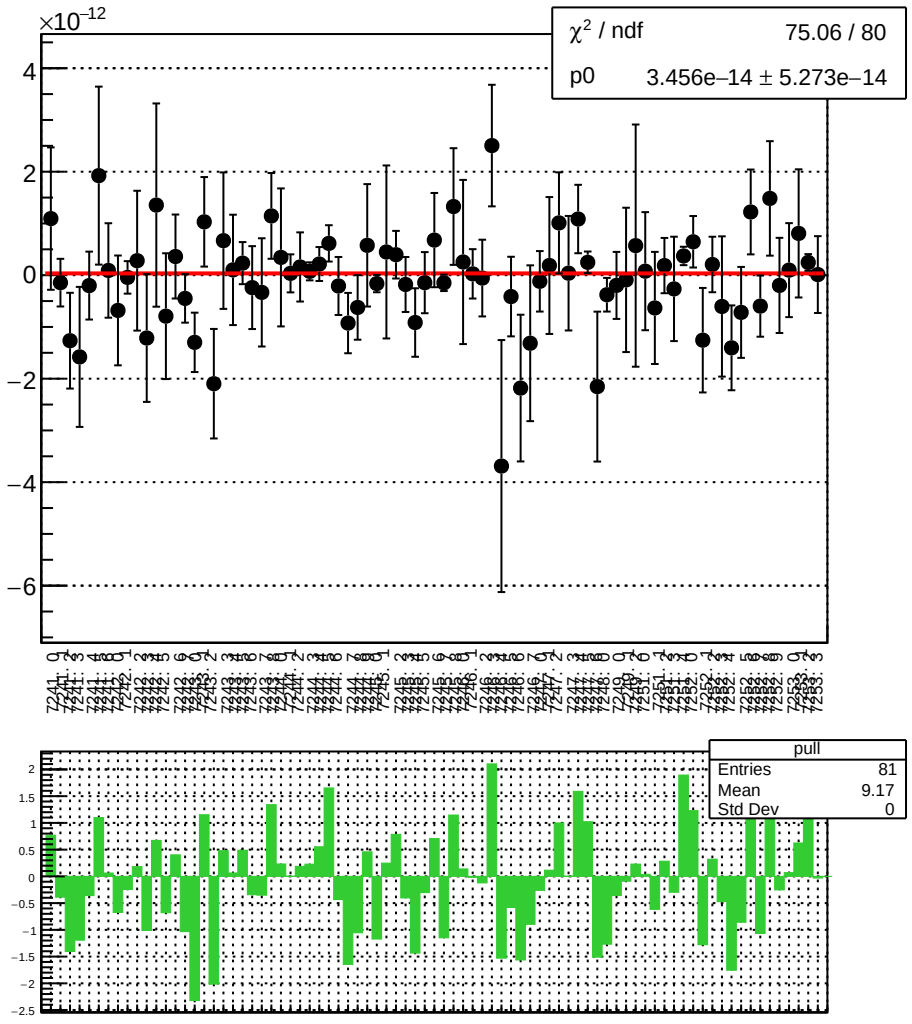

pull1D
Entries 81
Mean 0.01097
Std Dev 1.071

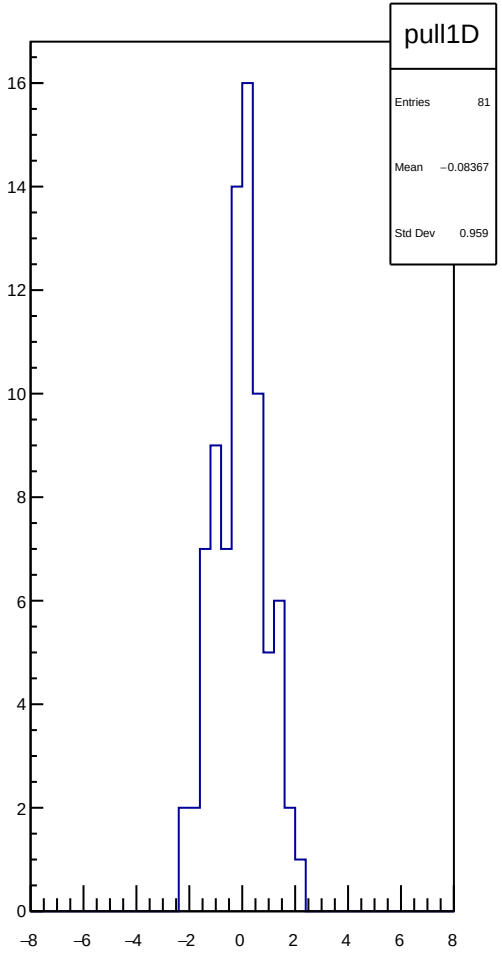

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.306e+04 / 80
p0 364.3 ± 0.294
460
440
420
400
380
360
340
320
300

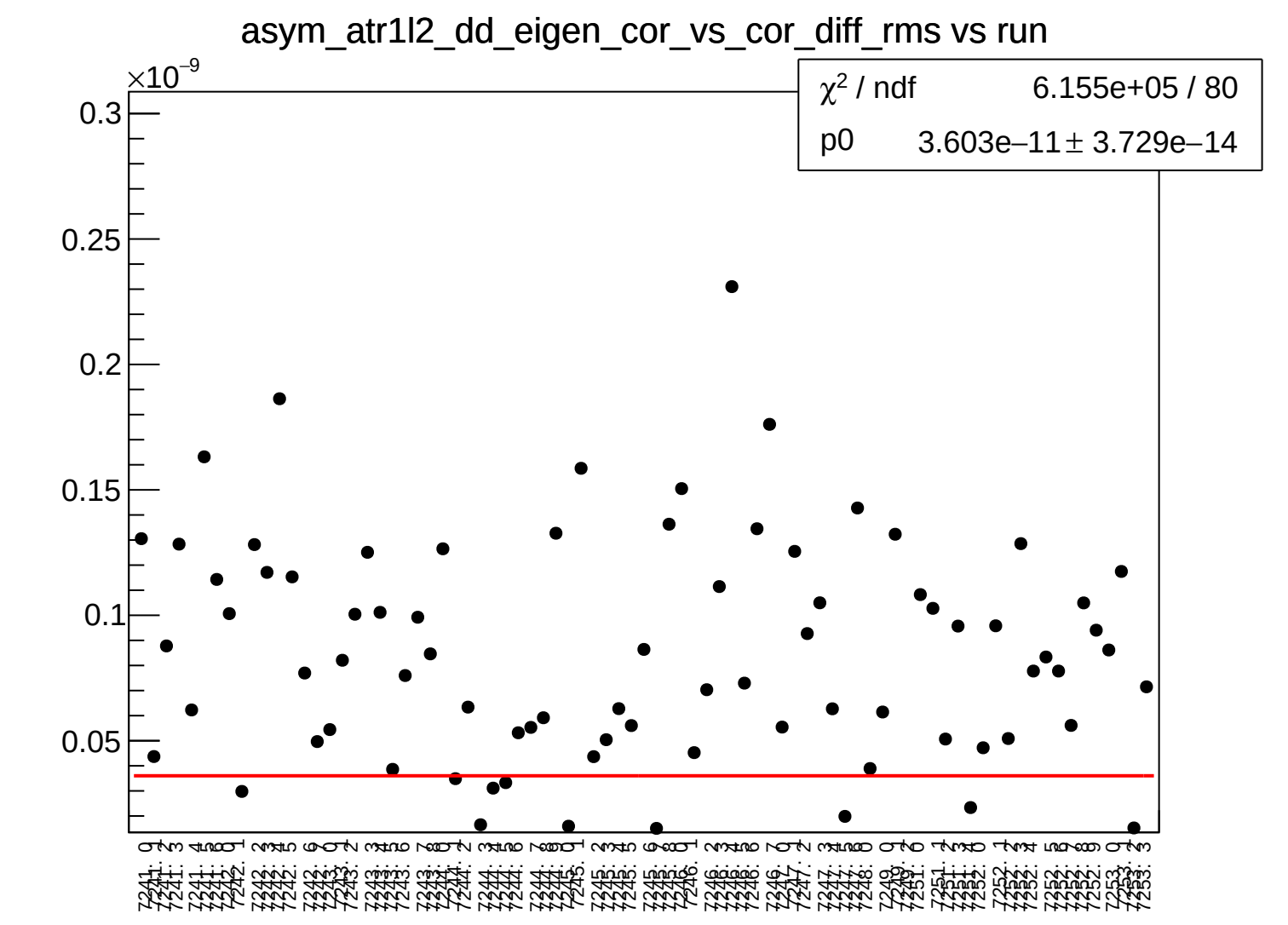

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.89 / 80
p0 −0.0993 ± 0.4157
pull
Entries 81
Mean −356
Std Dev 0

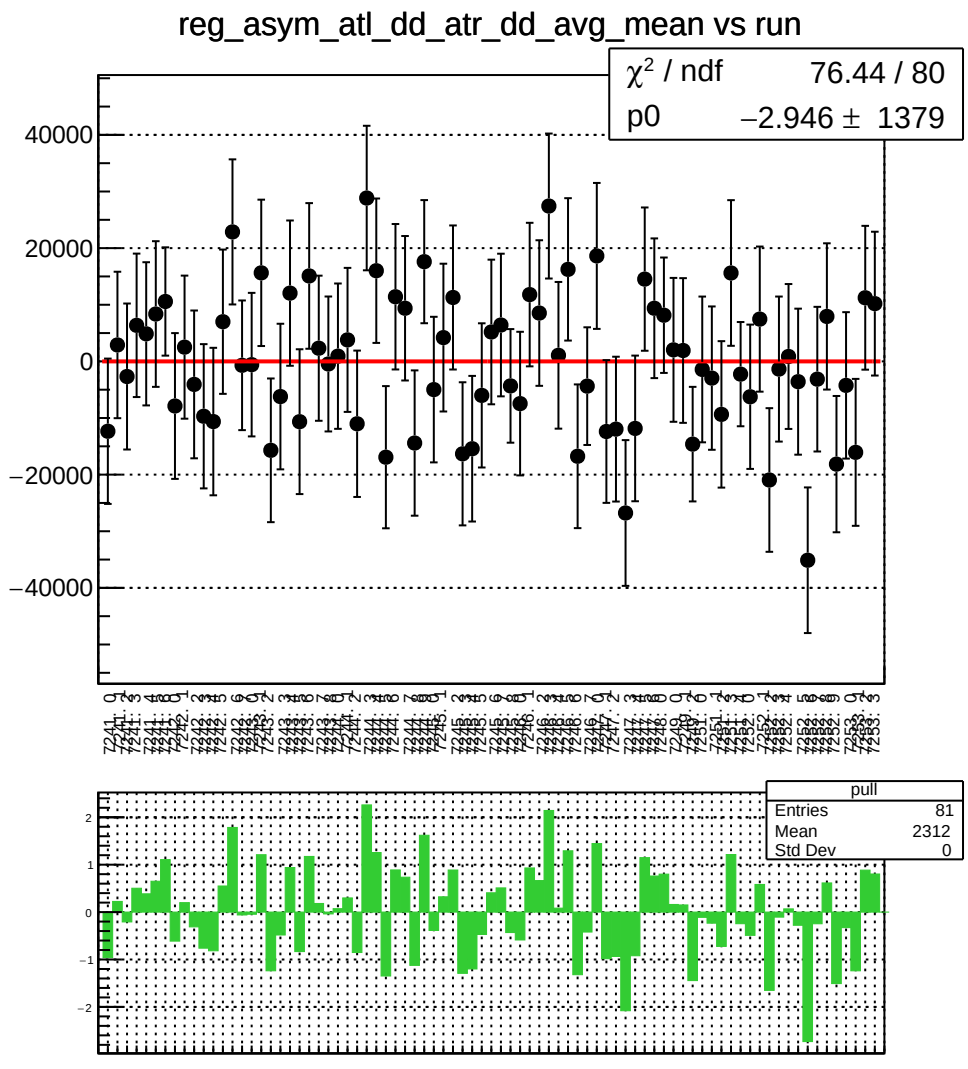

pull1D
Entries 81
Mean 0.01097
Std Dev 1.071

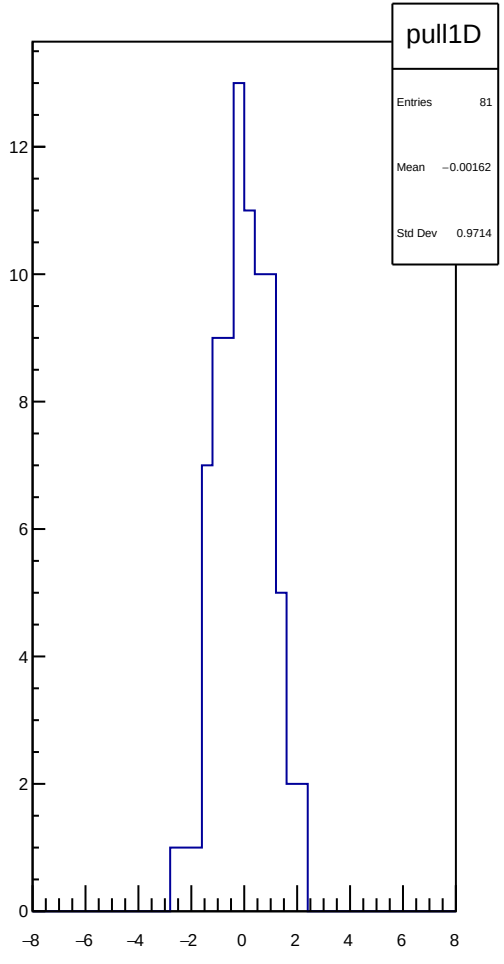

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.306e+04 / 80
p0 364.3 ± 0.294
460
440
420
400
380
360
340
320
300

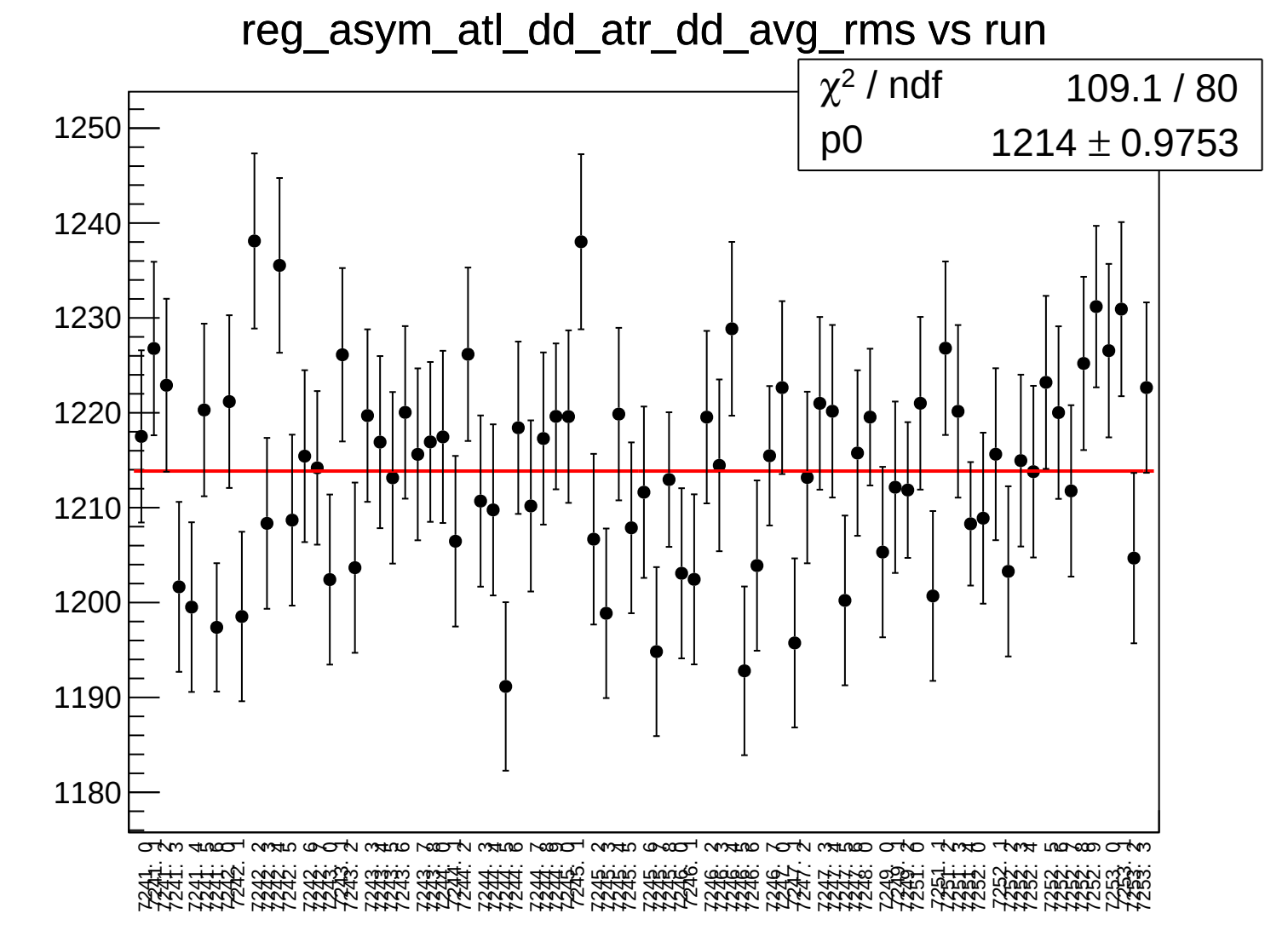

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.06 / 80
p0 3.456e−14 ± 5.273e−14
pull
Entries 81
Mean 9.17
Std Dev 0

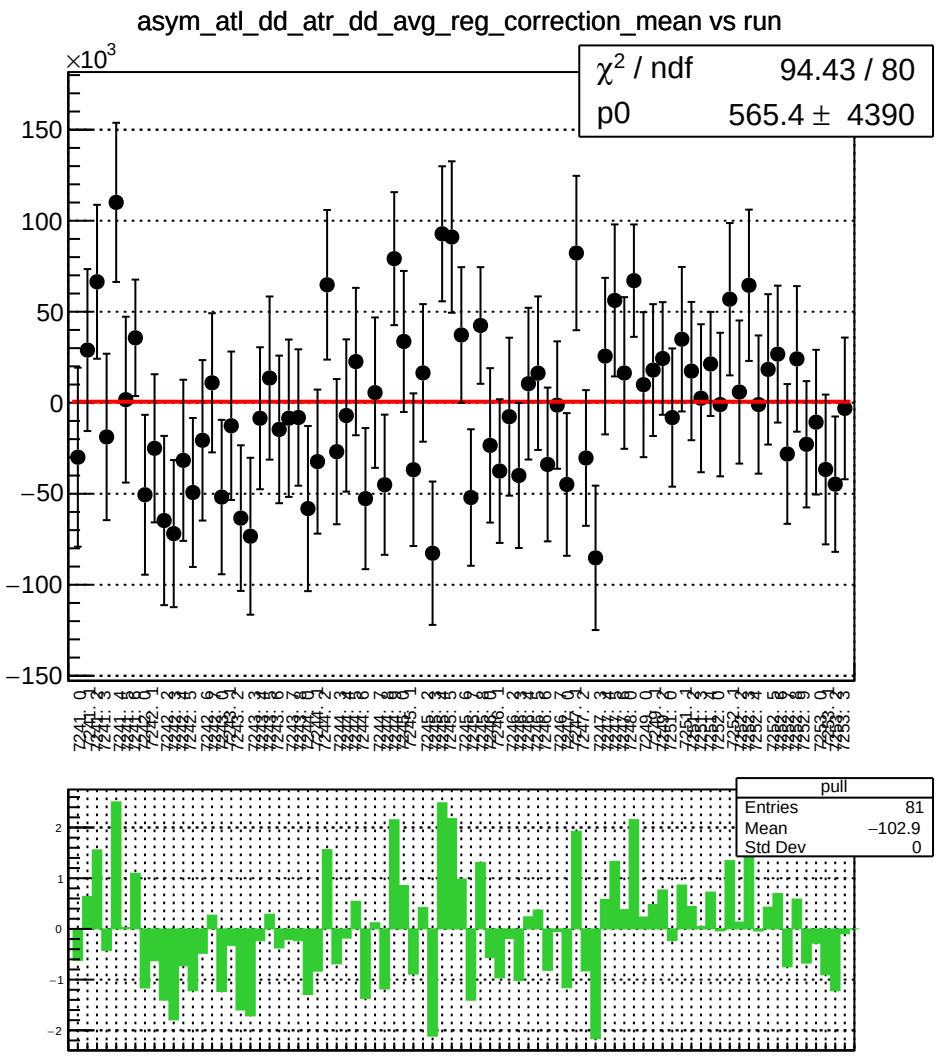

pull1D
Entries 81
Mean −0.08367
Std Dev 0.959

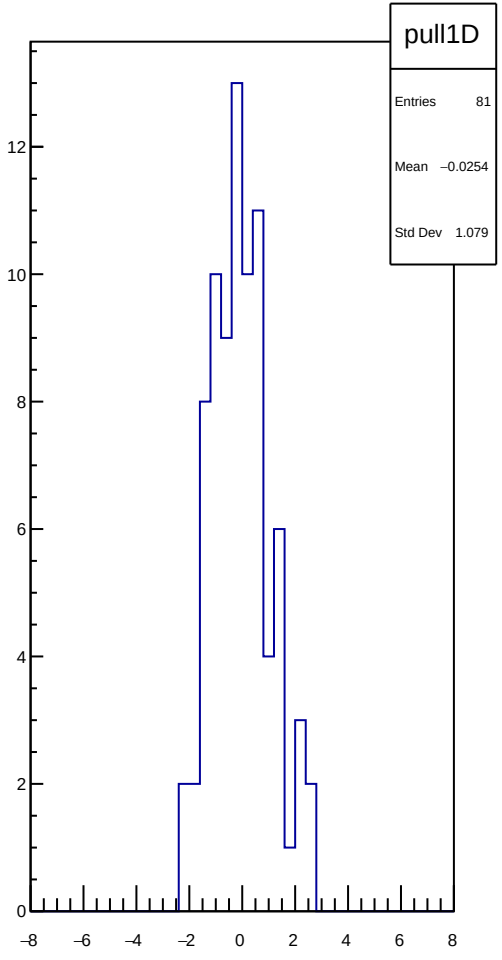

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.155e+05 / 80
p0 3.603e−11 ± 3.729e−14
0.3
0.25
0.2
0.15
0.1
0.05

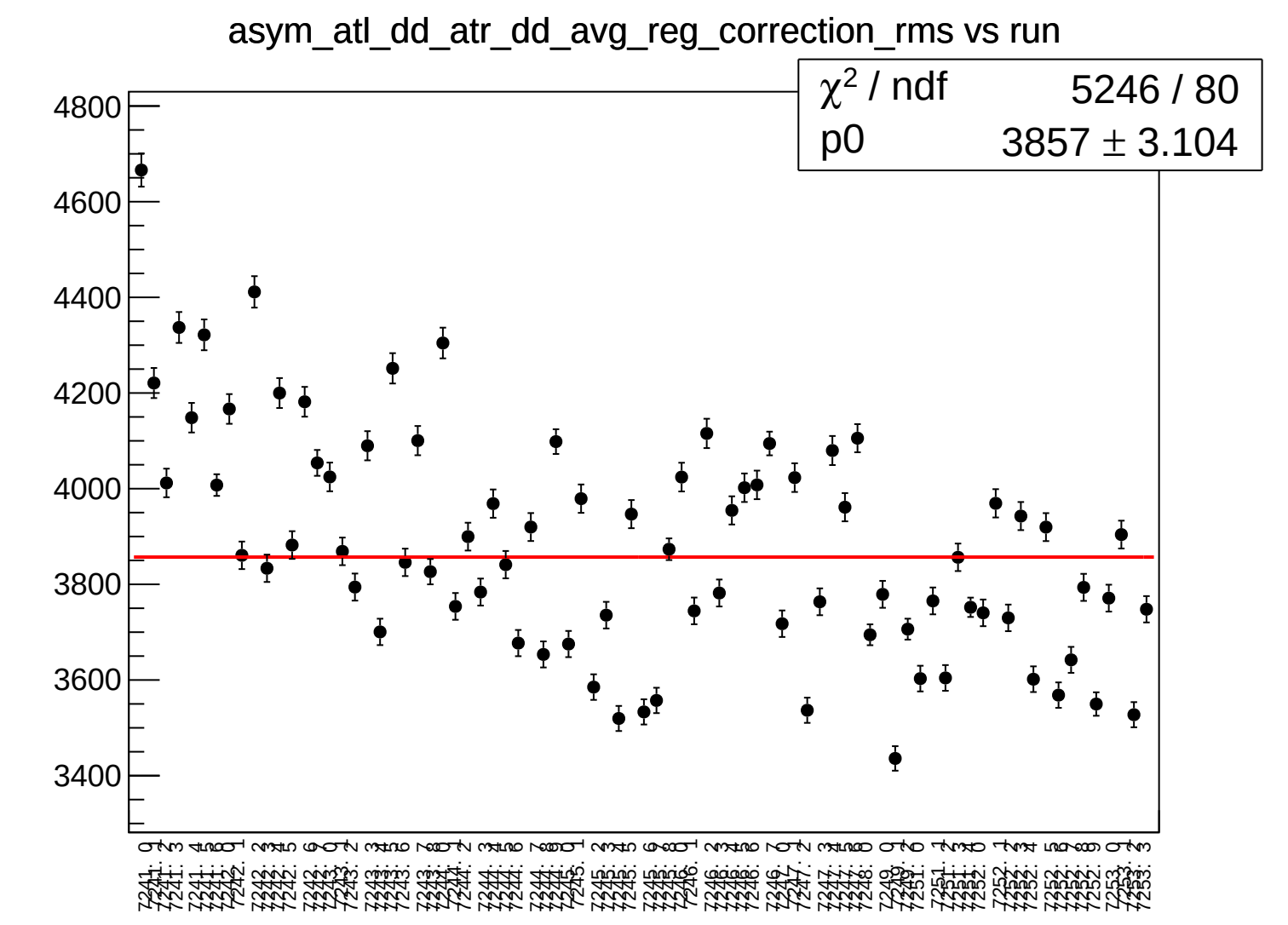

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 76.44 / 80
p0 −2.946 ± 1379
40000
20000
0
−20000
−40000
pull
Entries 81
Mean 2312
Std Dev 0
2
1
0
−1
−2

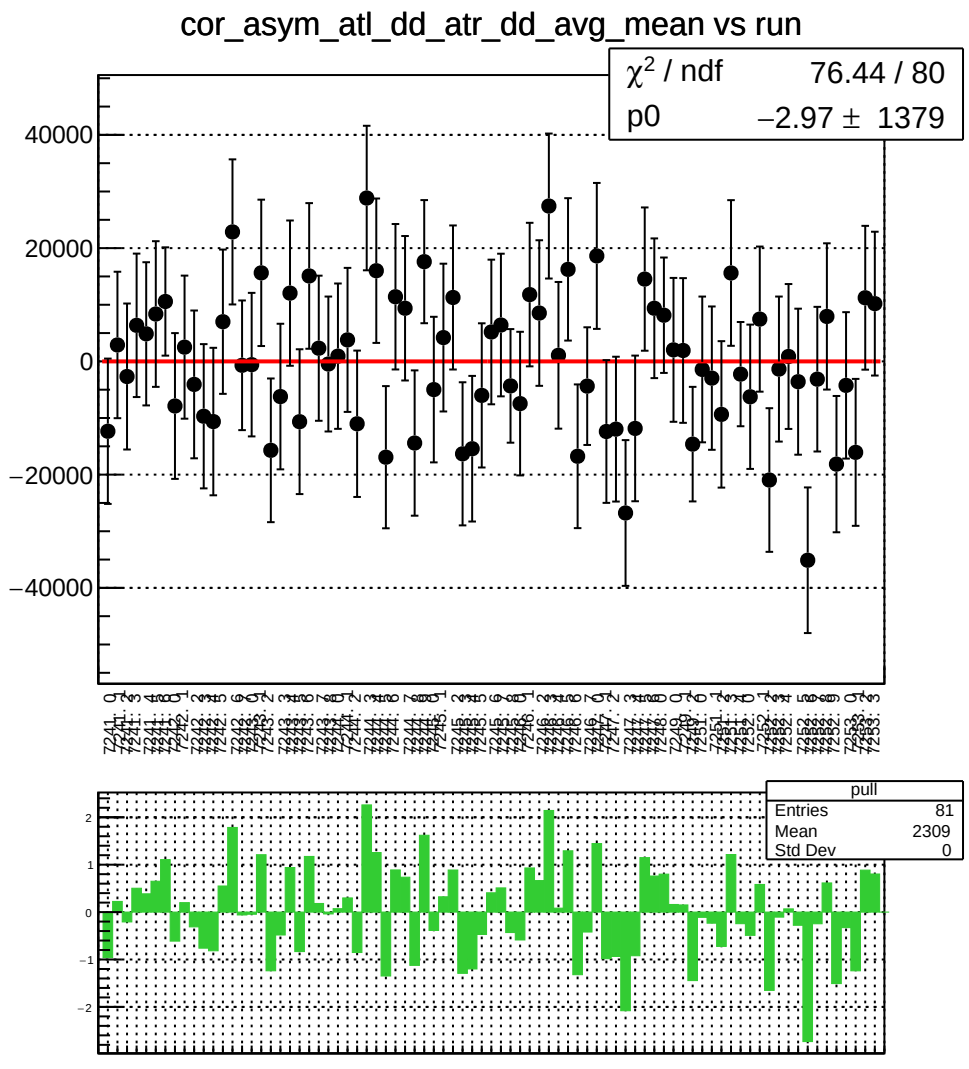

pull1D
Entries 81
Mean −0.00162
Std Dev 0.9714
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

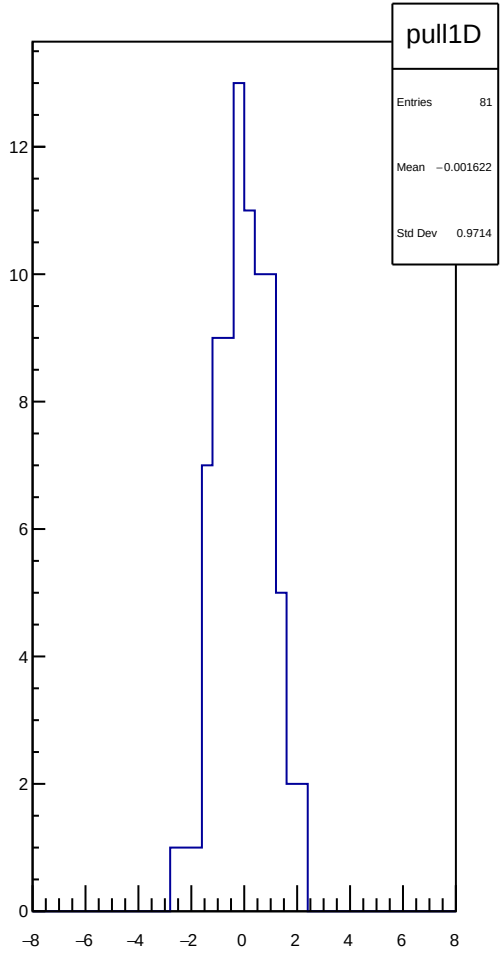

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 109.1 / 80
p0 1214 ± 0.9753
1250
1240
1230
1220
1210
1200
1190
1180

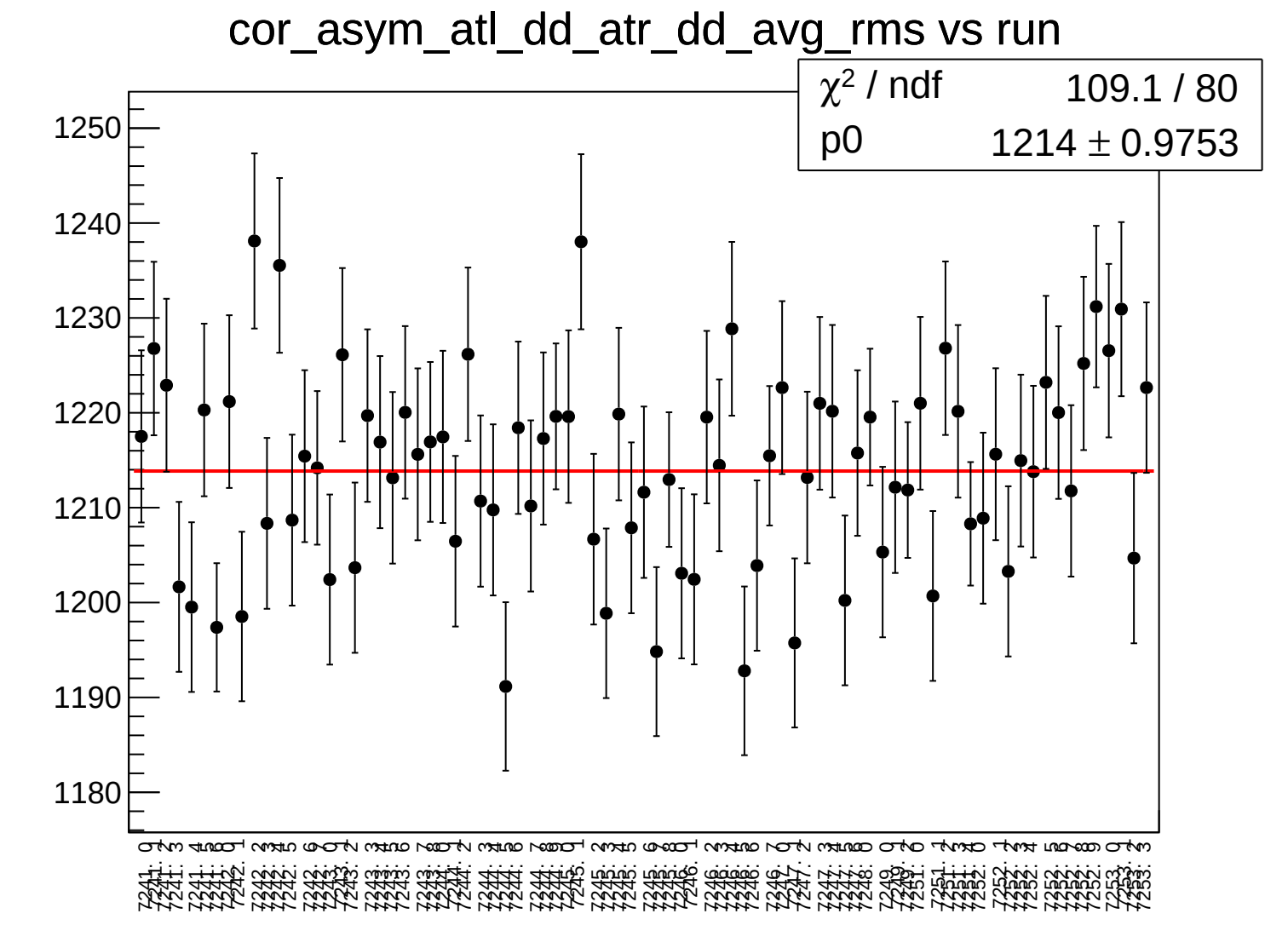

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 94.43 / 80
p0 565.4 ± 4390
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean −102.9
Std Dev 0
2
1
0
−1
−2

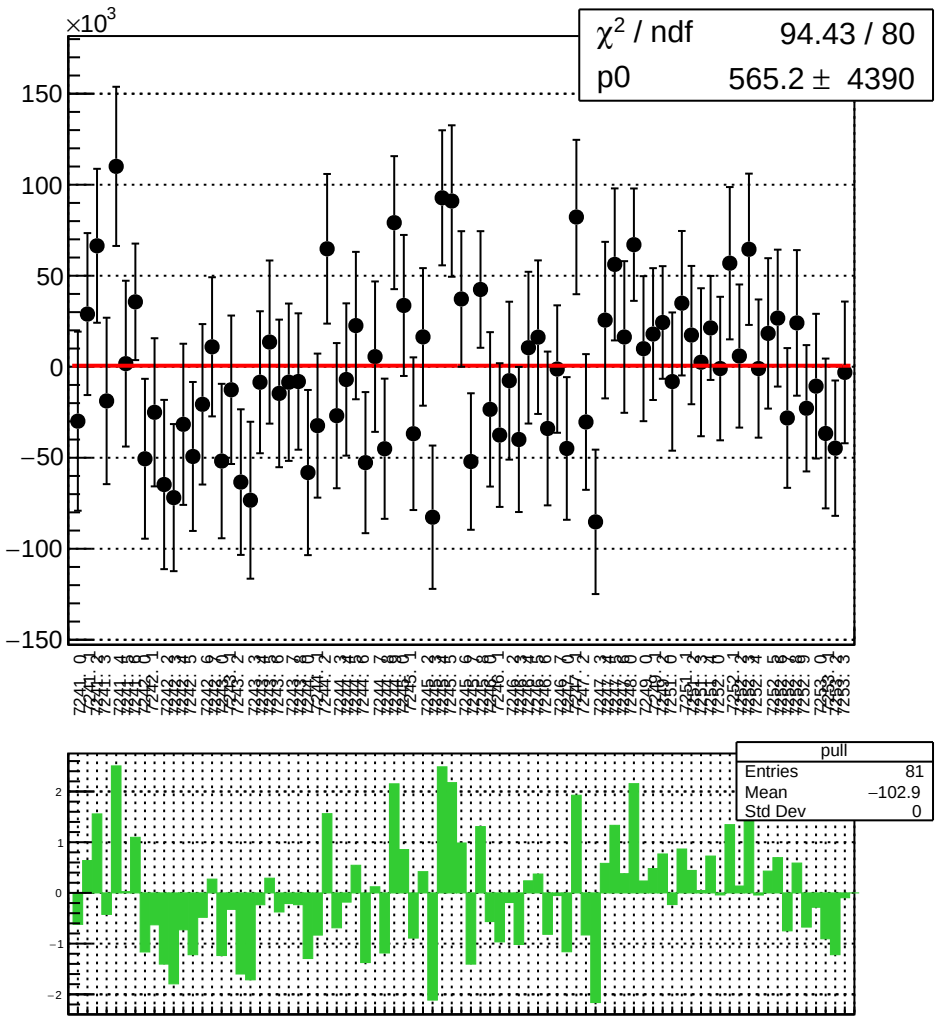

pull1D
Entries 81
Mean −0.0254
Std Dev 1.079
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

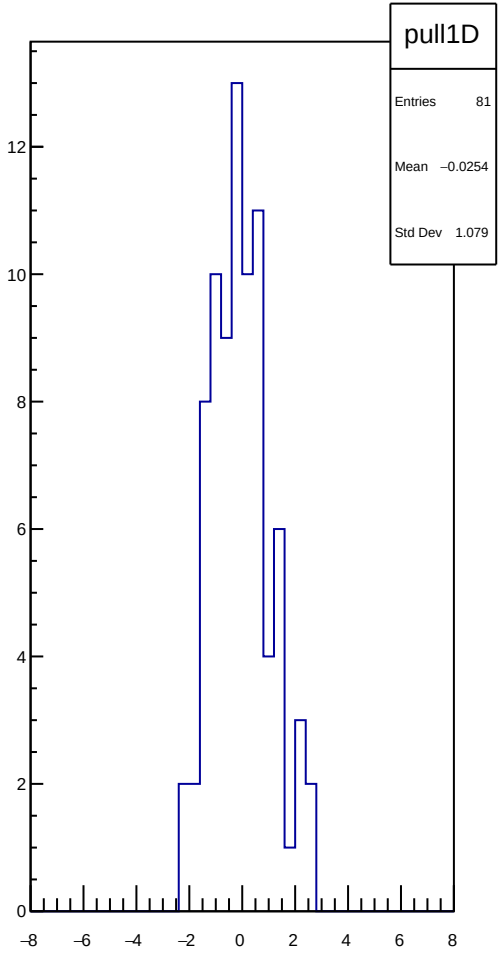

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 5246 / 80
p0 3857 ± 3.104
4800
4600
4400
4200
4000
3800
3600
3400

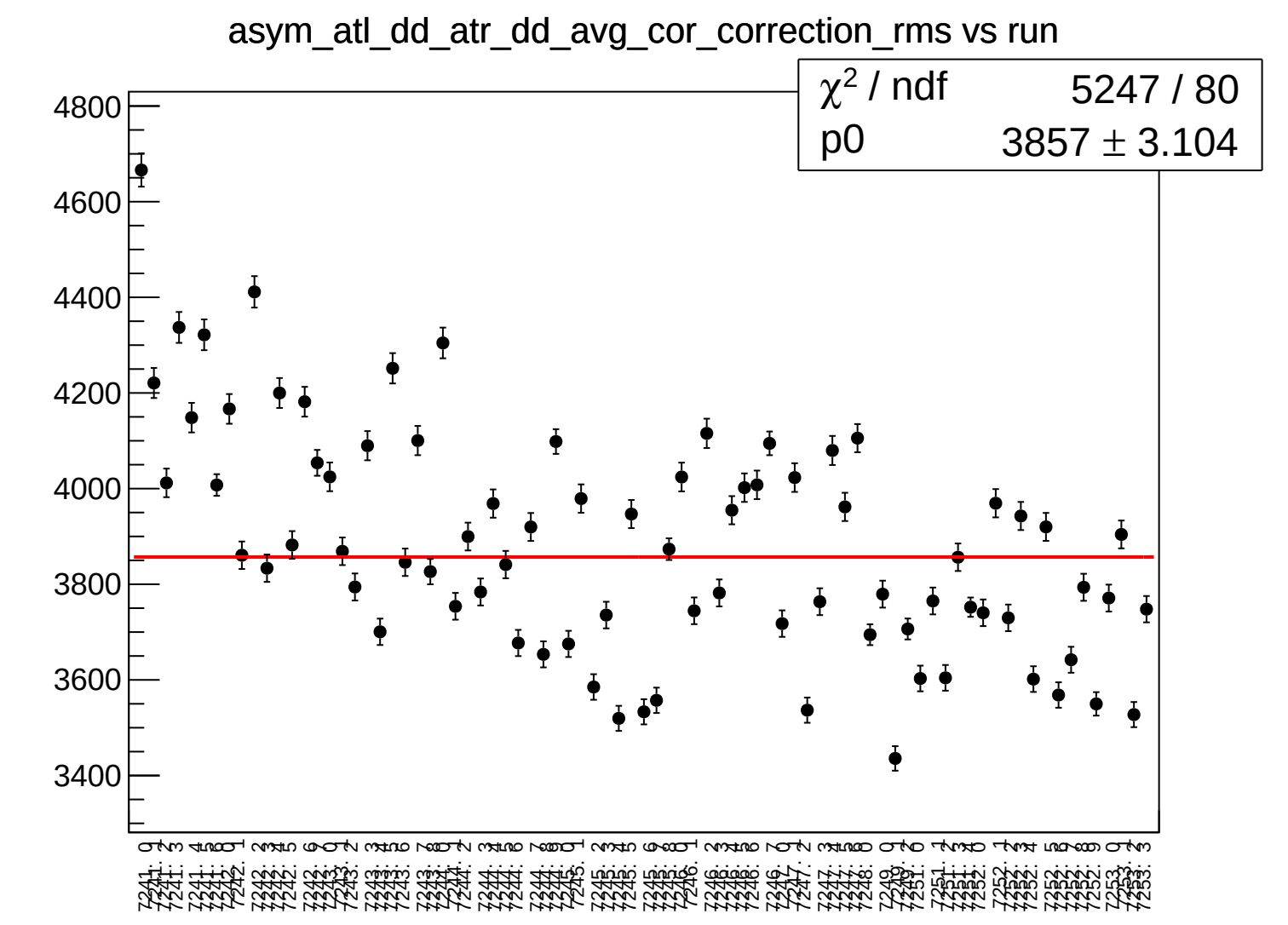

cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 76.44 / 80
p0 −2.97 ± 1379
40000
20000
0
−20000
−40000
pull
Entries 81
Mean 2309
Std Dev 0
2
1
0
−1
−2

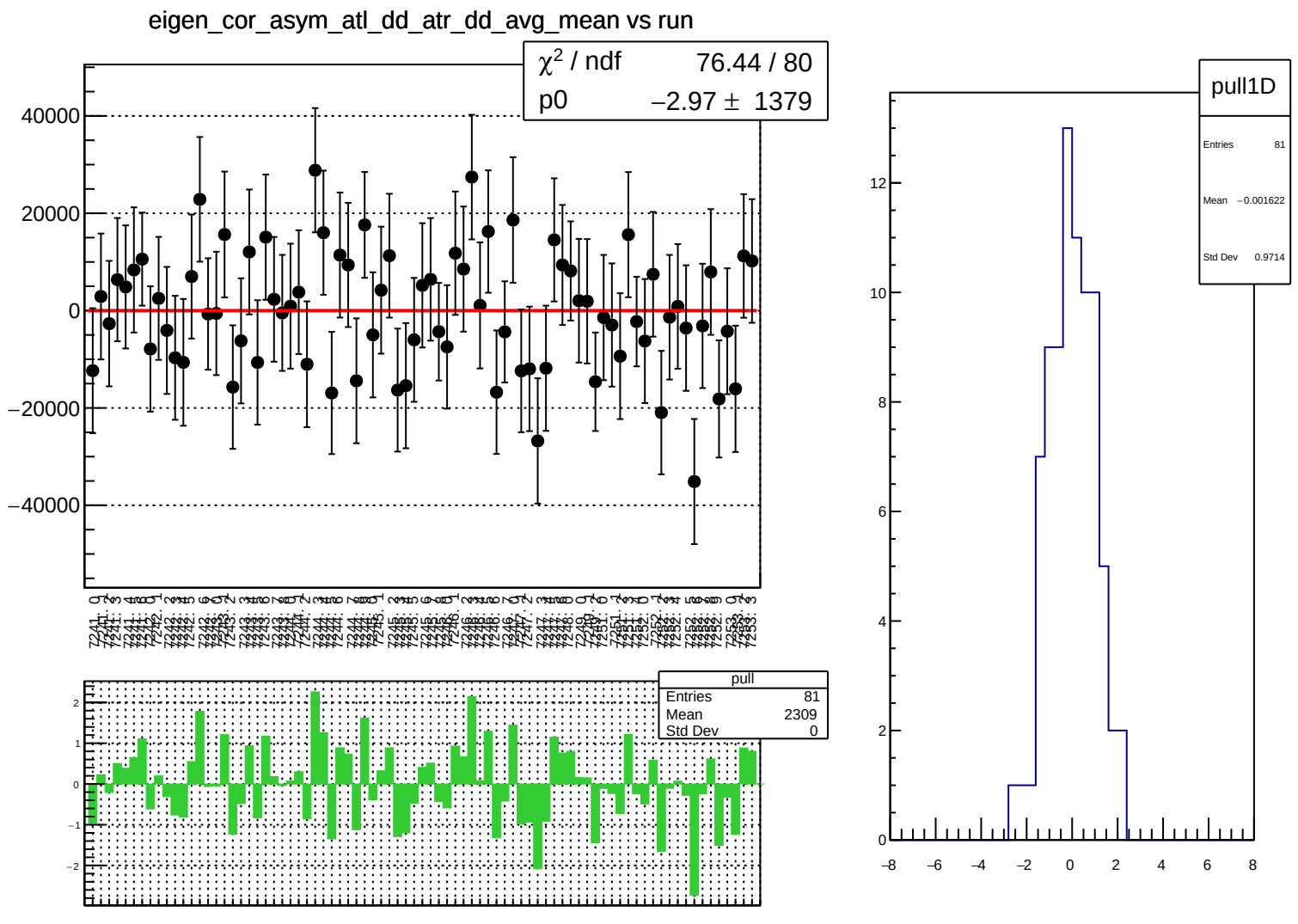

pull1D
Entries 81
Mean −0.001622
Std Dev 0.9714
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

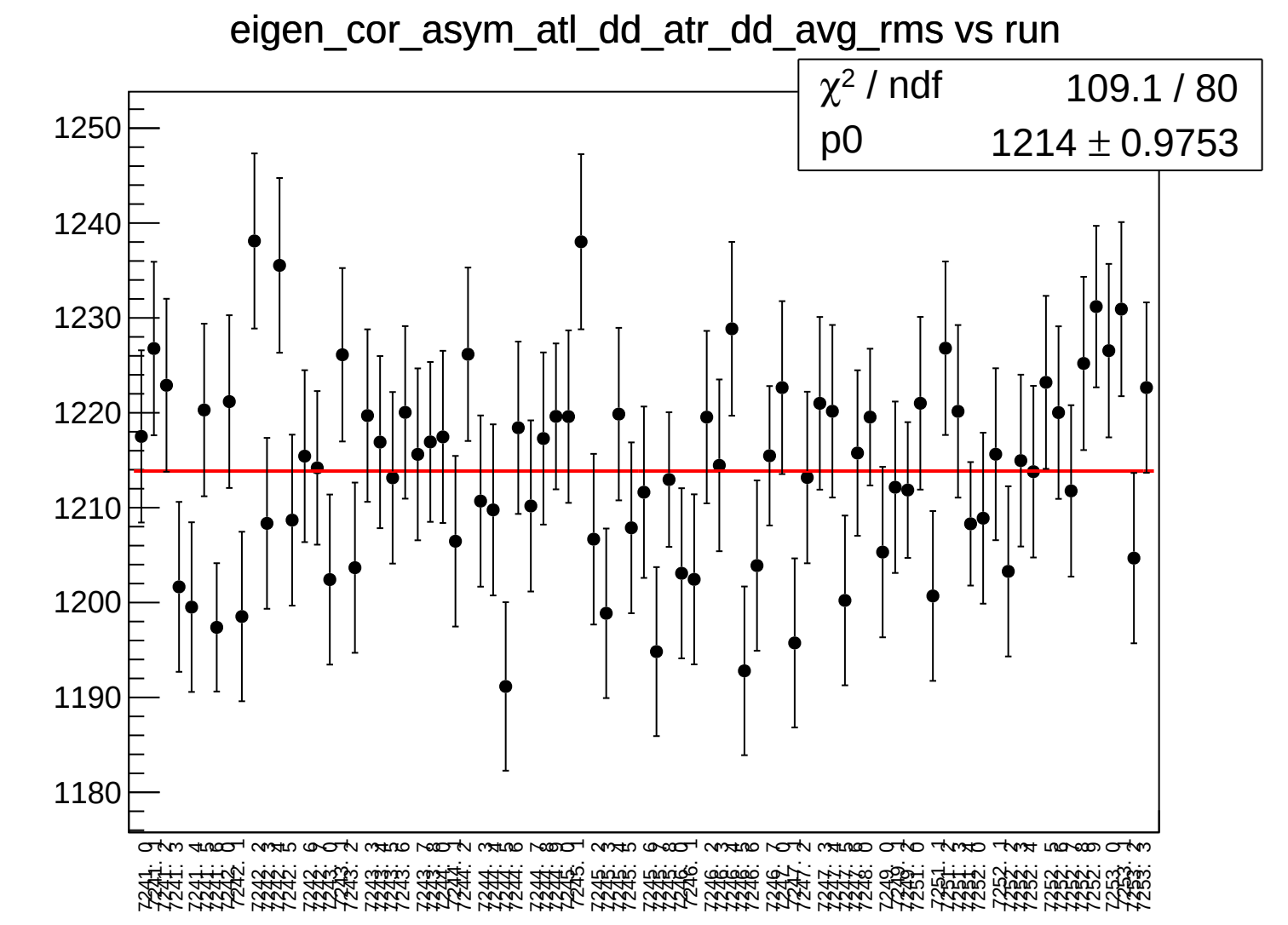

cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 109.1 / 80
p0 1214 ± 0.9753
1250
1240
1230
1220
1210
1200
1190
1180

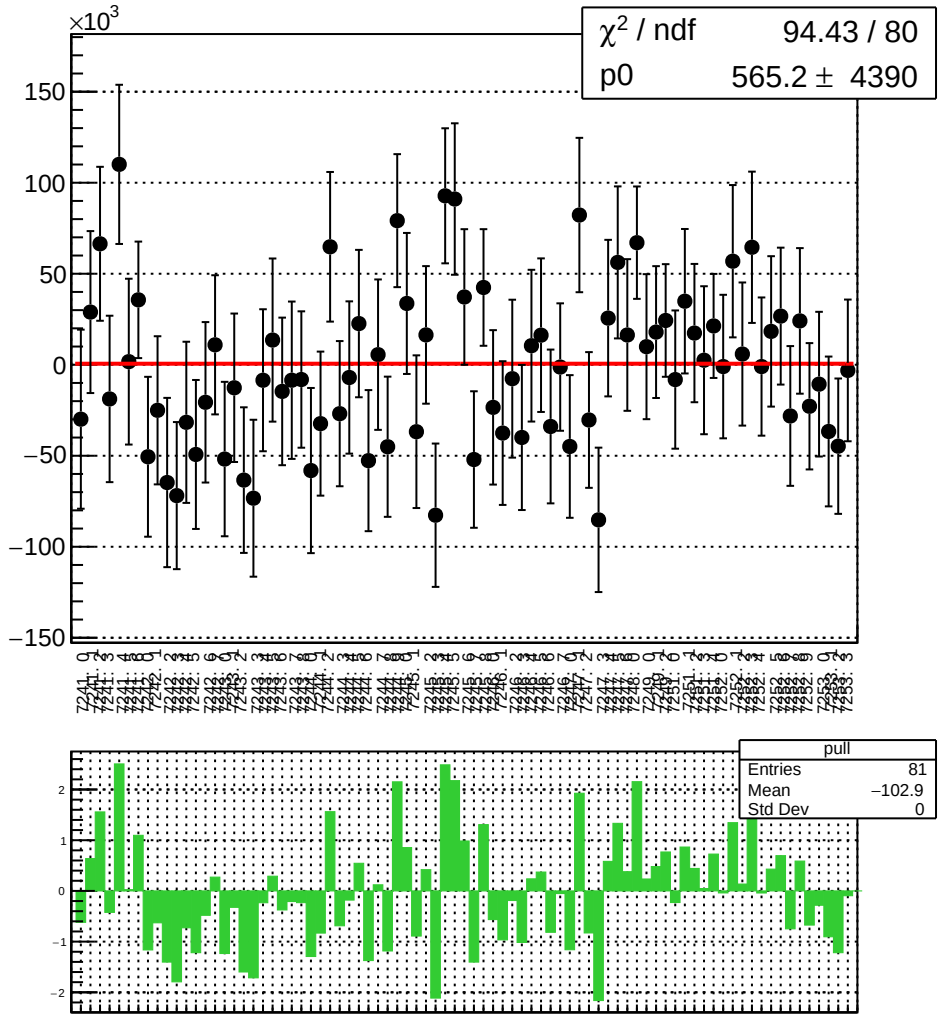

asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 94.43 / 80
p0 565.2 ± 4390
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean −102.9
Std Dev 0
2
1
0
−1
−2

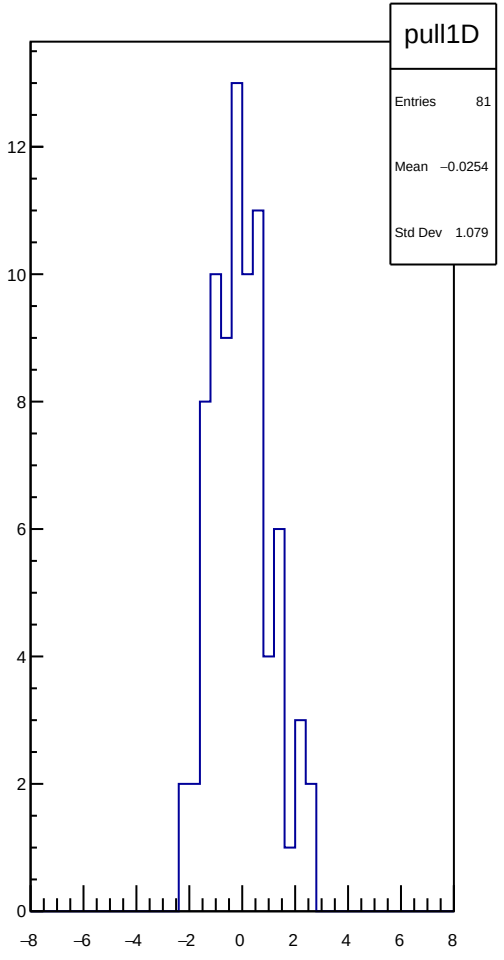

pull1D
Entries 81
Mean −0.0254
Std Dev 1.079
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

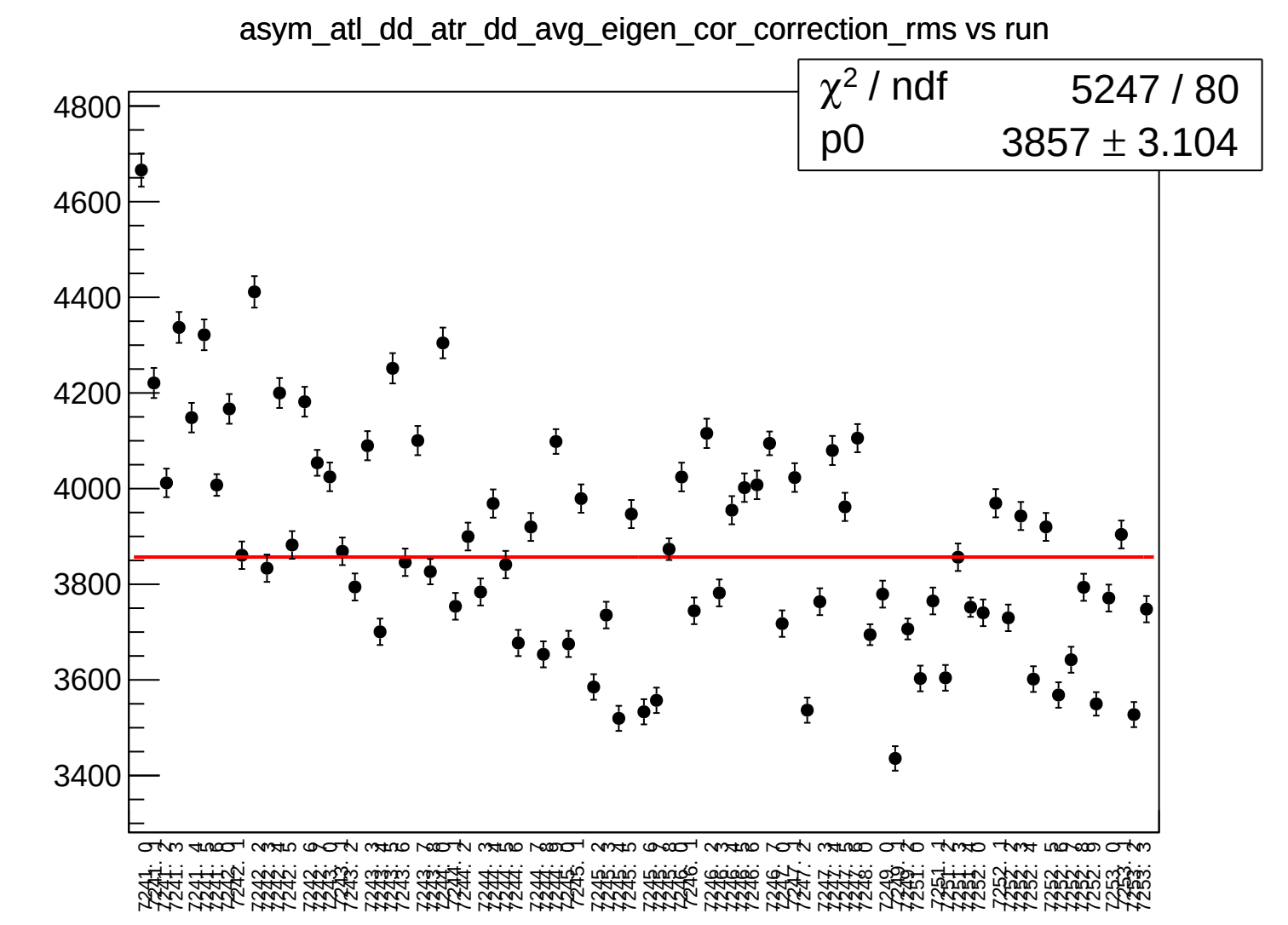

asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ² / ndf 5247 / 80
p0 3857 ± 3.104
4800
4600
4400
4200
4000
3800
3600
3400

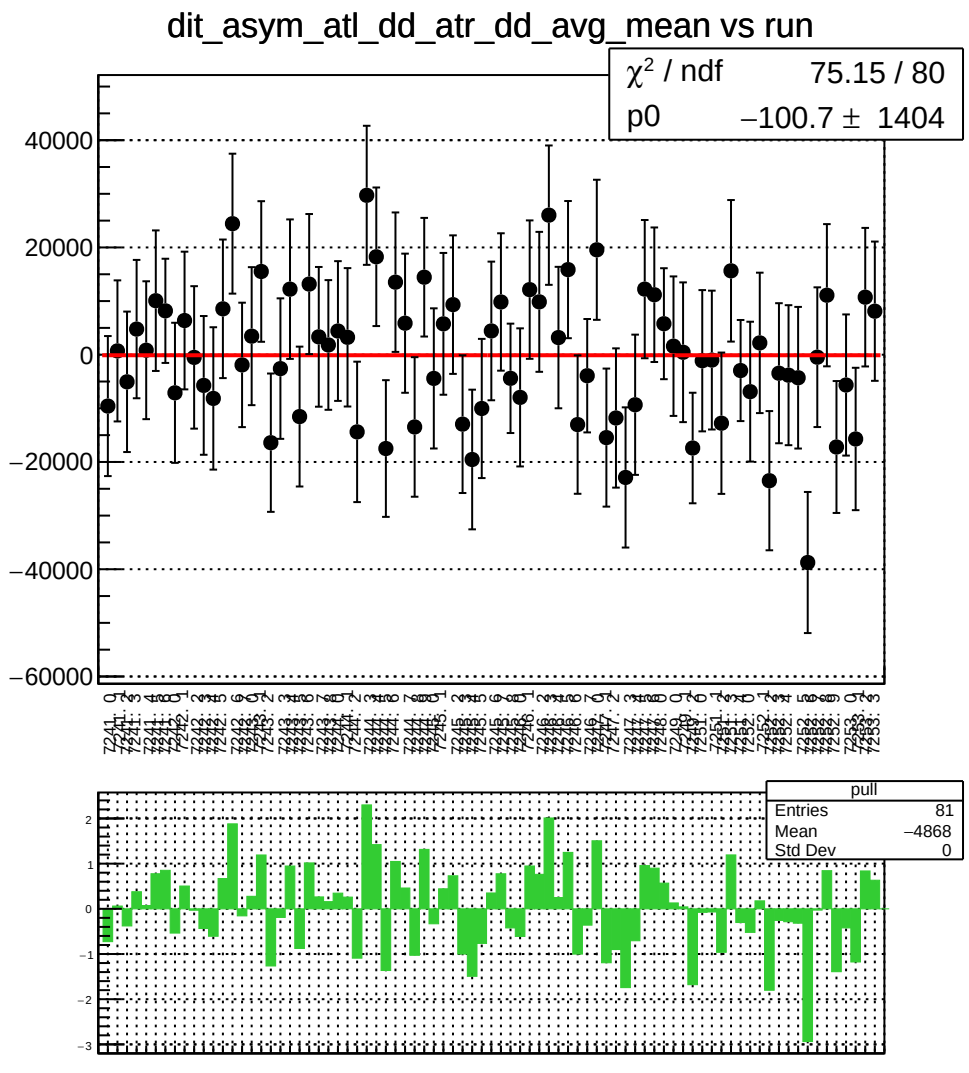

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 76.44 / 80
p0 −2.97 ± 1379
40000
20000
0
−20000
−40000
pull
Entries 81
Mean 2309
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 81
Mean −0.001622
Std Dev 0.9714
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

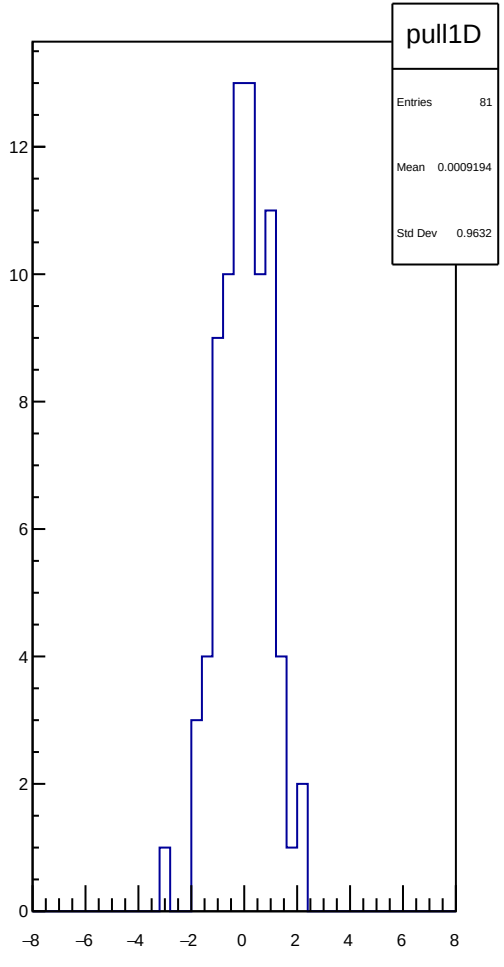

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 109.1 / 80
p0 1214 ± 0.9753
1250
1240
1230
1220
1210
1200
1190
1180

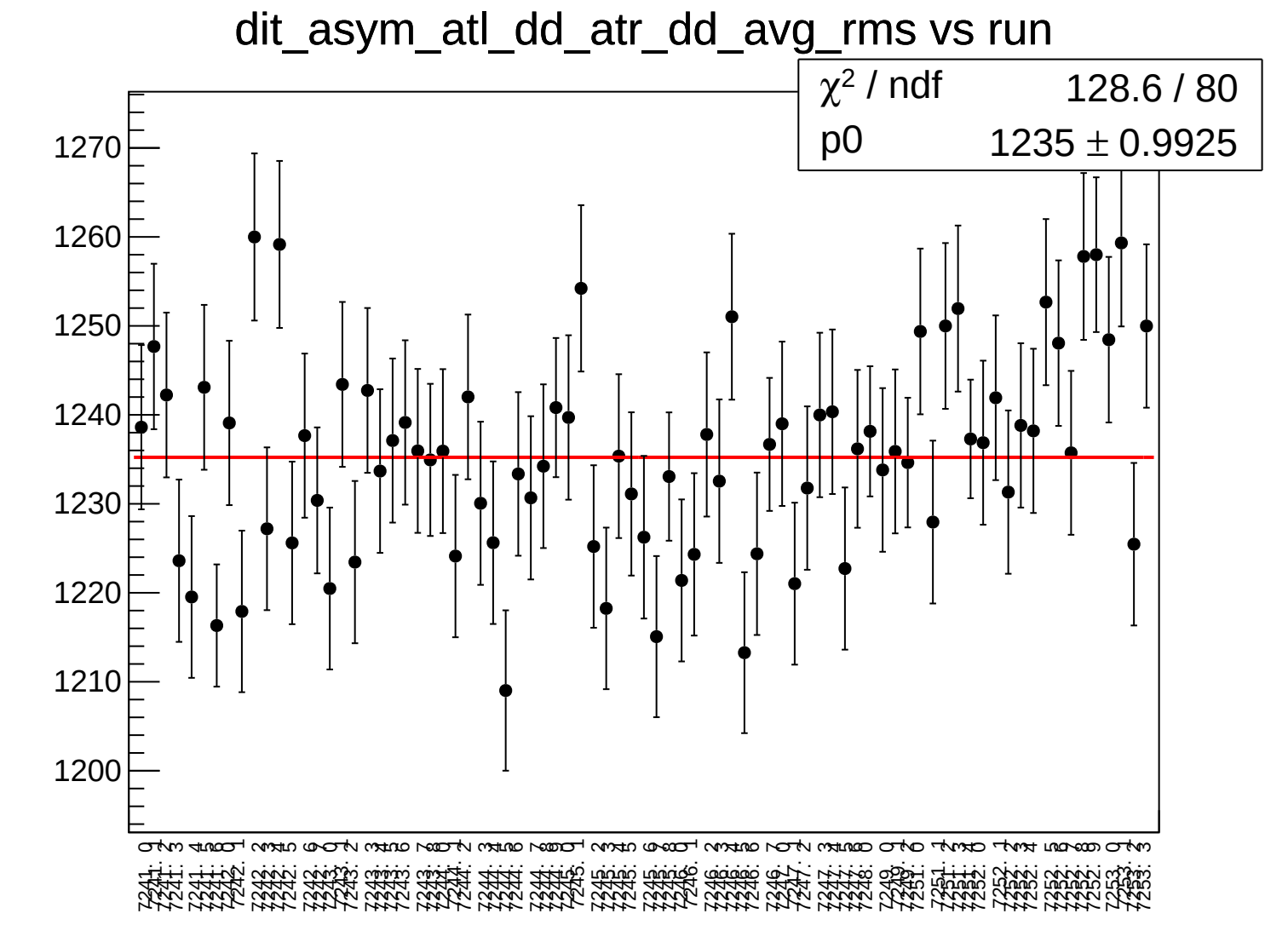

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 94.43 / 80
p0 565.2 ± 4390
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean −102.9
Std Dev 0
2
1
0
−1
−2

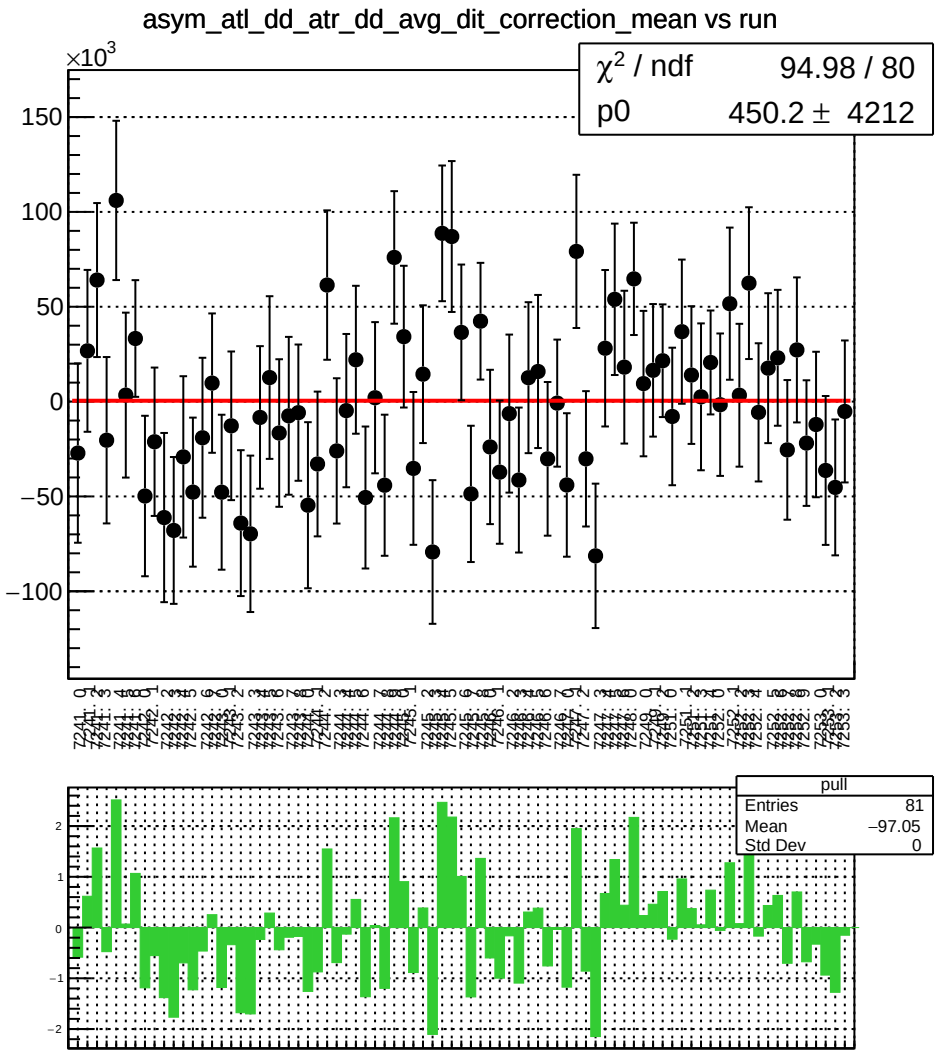

pull1D
Entries 81
Mean −0.0254
Std Dev 1.079
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

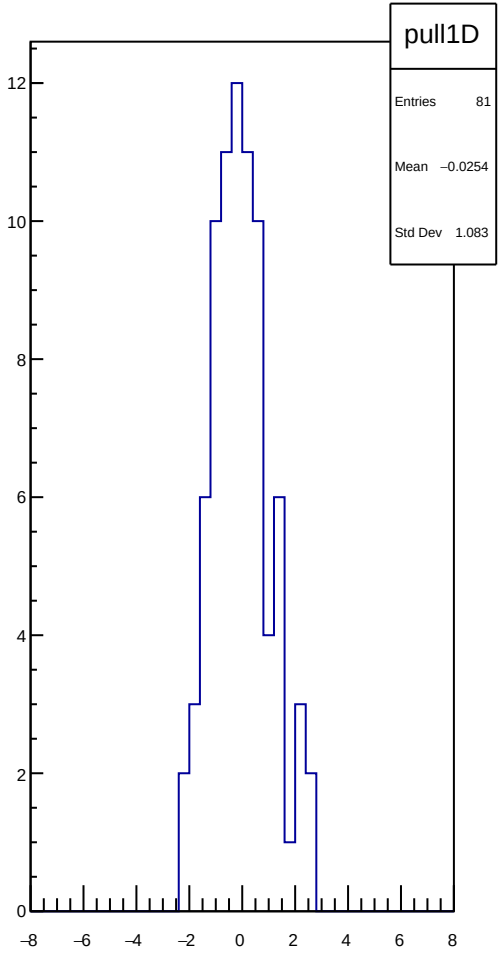

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 5247 / 80
p0 3857 ± 3.104
4800
4600
4400
4200
4000
3800
3600
3400

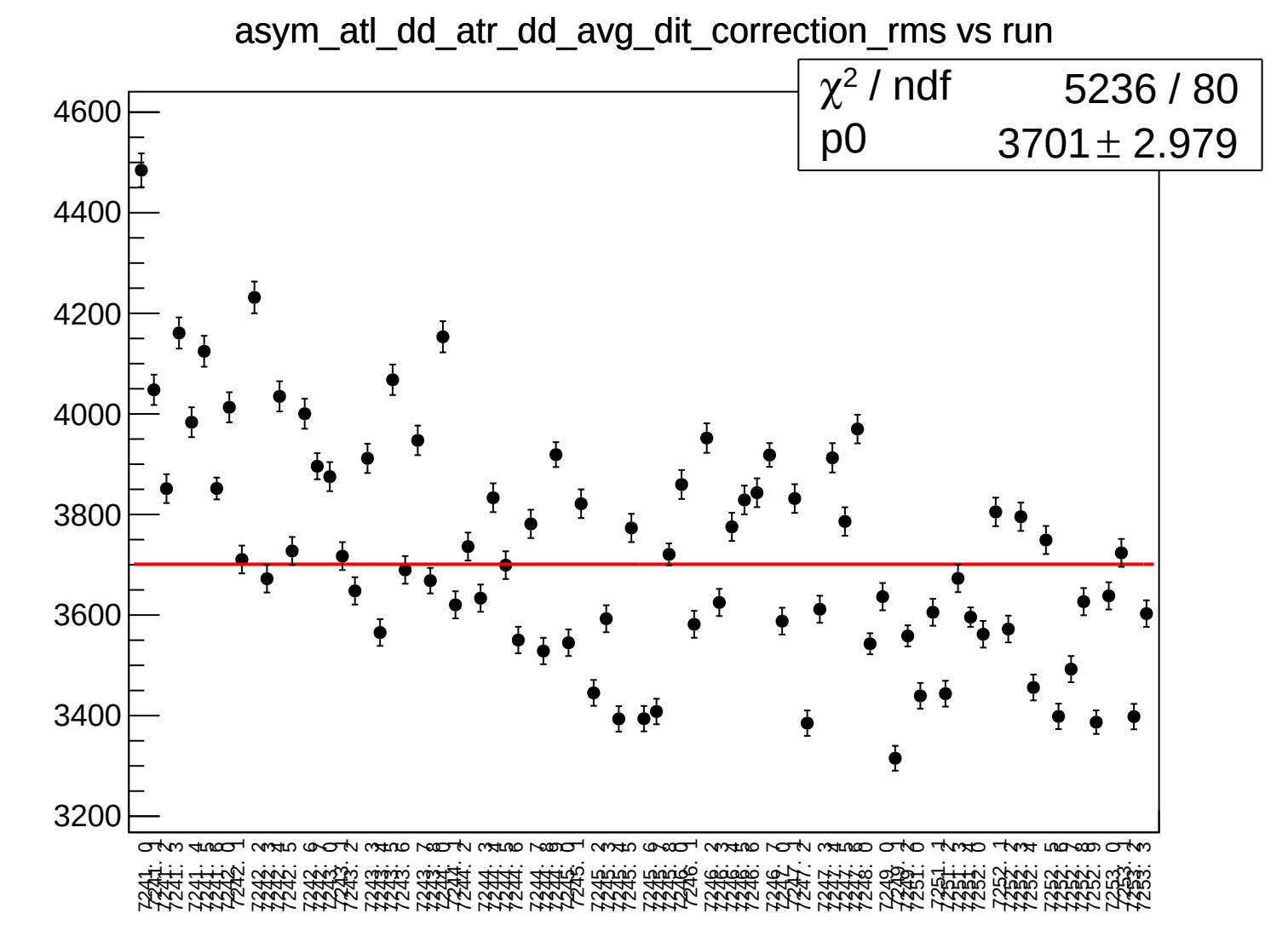

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 75.15 / 80
p0 −100.7 ± 1404
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −4868
Std Dev 0
2
1
0
−1
−2
−3

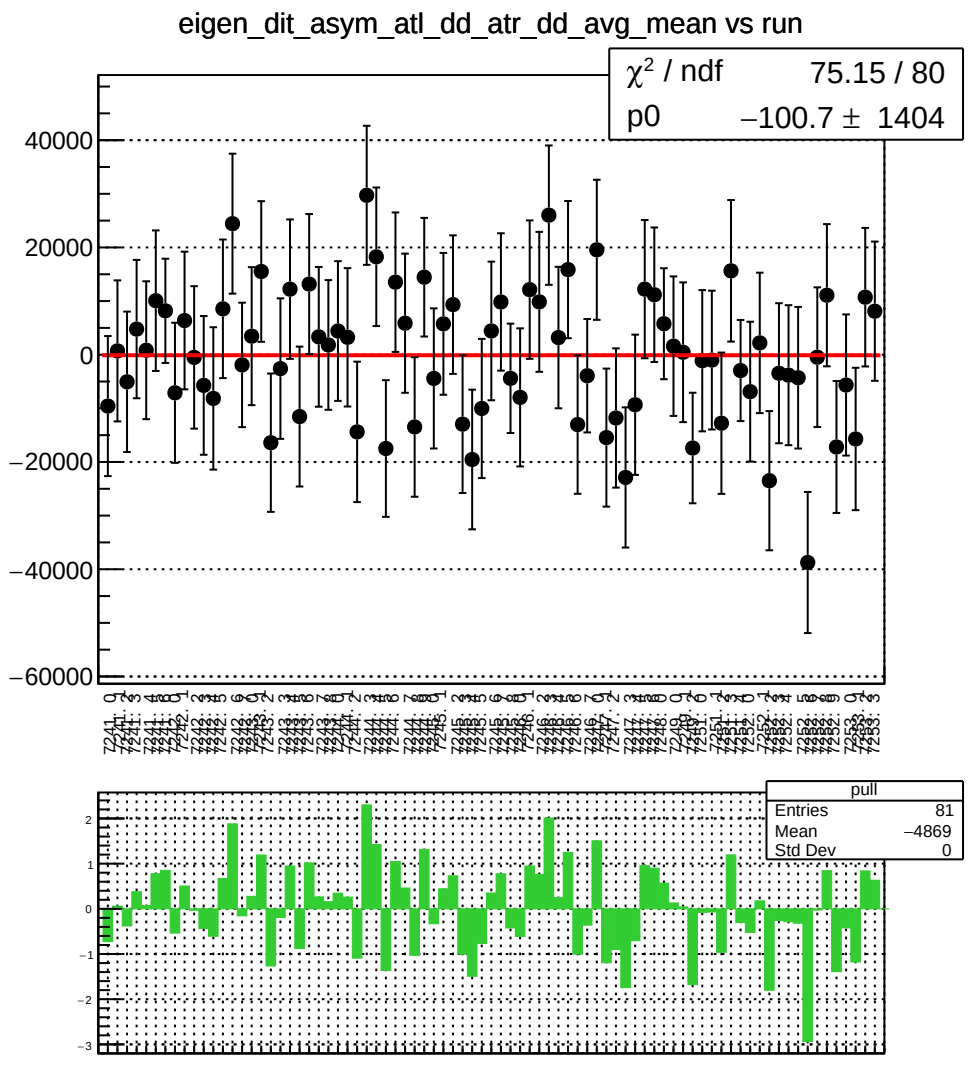

pull1D
Entries 81
Mean 0.0009194
Std Dev 0.9632
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

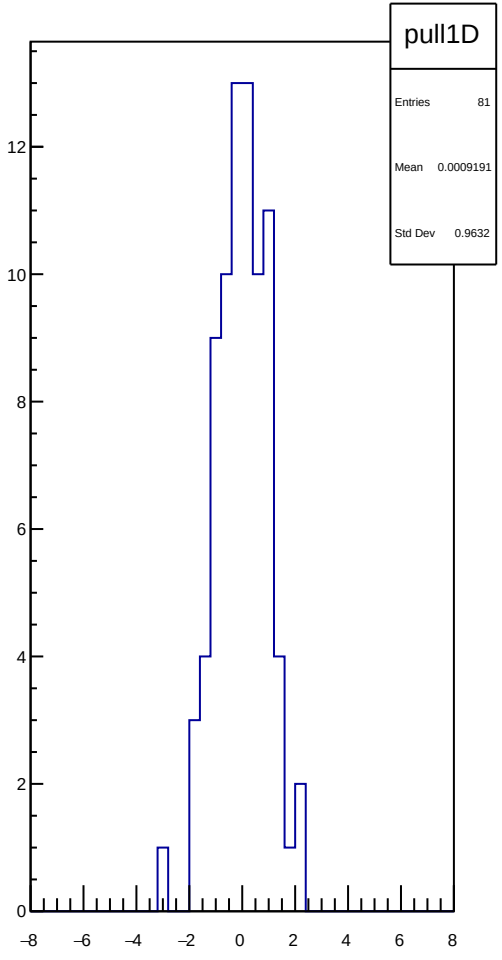

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 128.6 / 80
p0 1235 ± 0.9925
1270
1260
1250
1240
1230
1220
1210
1200

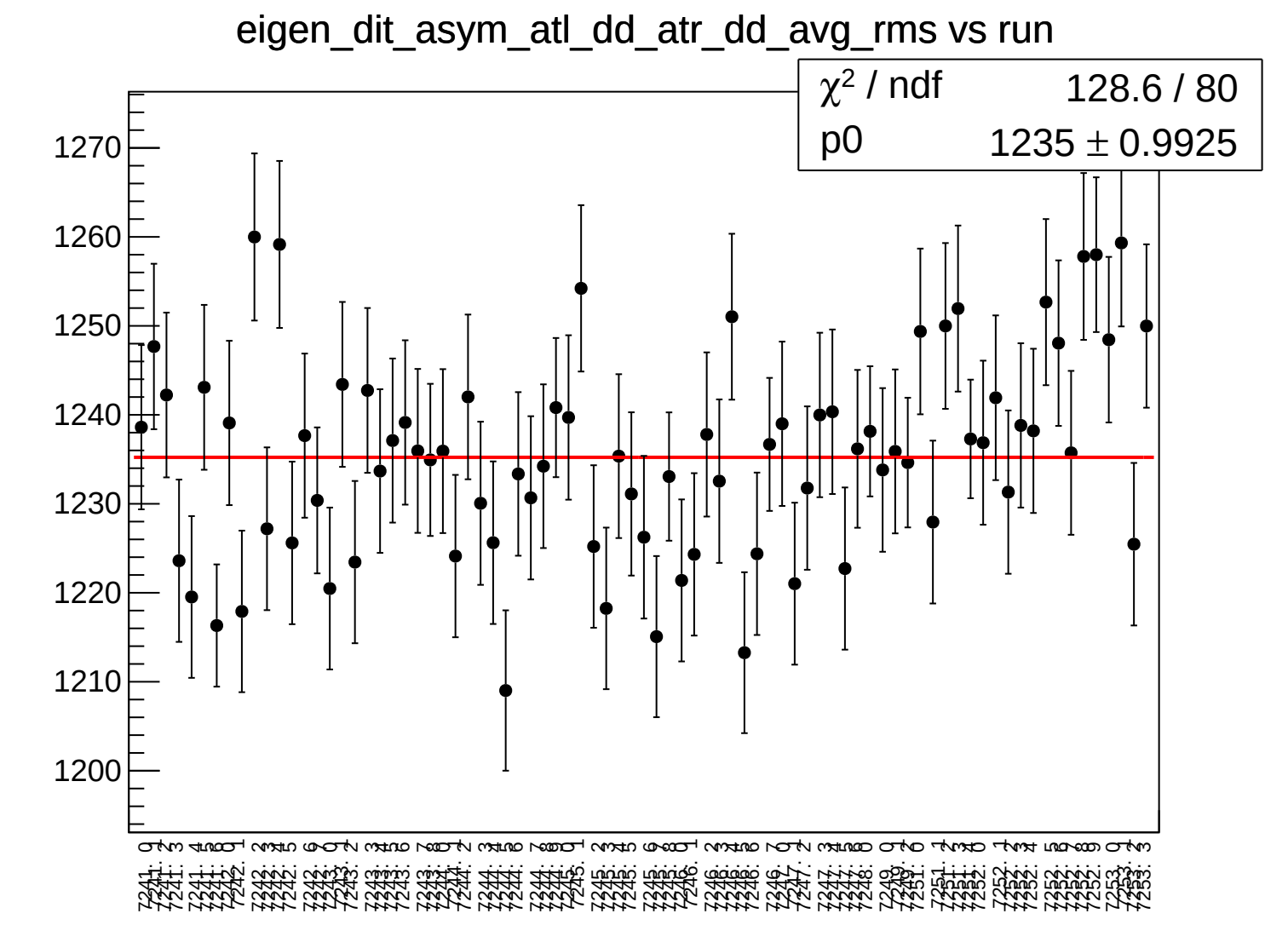

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 94.98 / 80
p0 450.2 ± 4212
150
100
50
0
−50
−100
pull
Entries 81
Mean −97.05
Std Dev 0
2
1
0
−1
−2

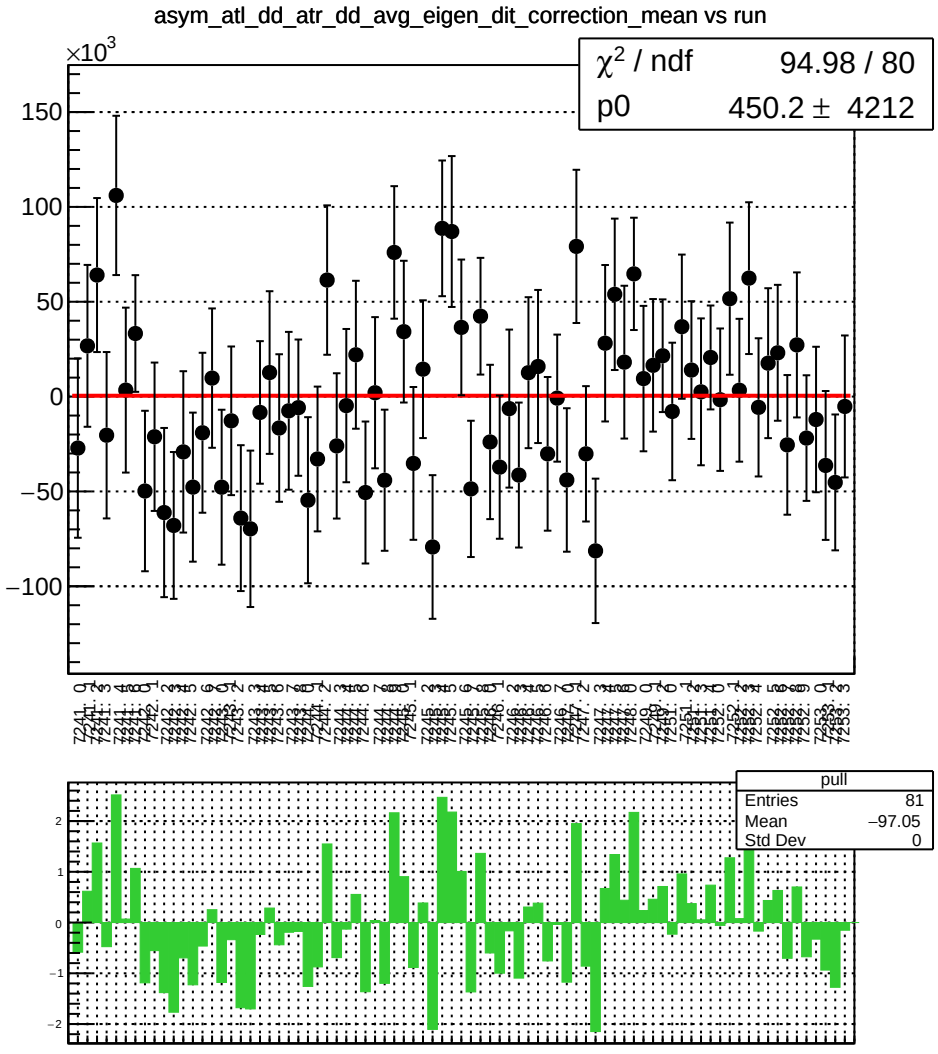

pull1D
Entries 81
Mean −0.0254
Std Dev 1.083
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

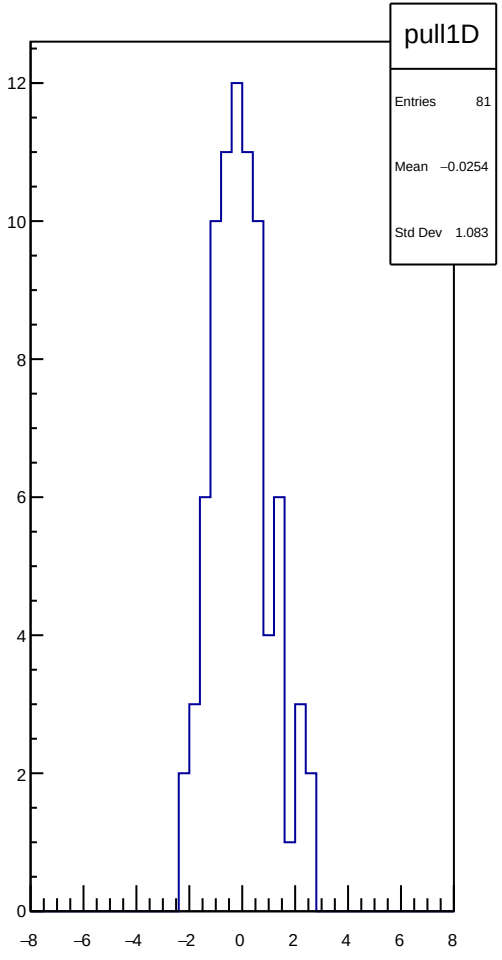

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 5236 / 80
p0 3701 ± 2.979
4600
4400
4200
4000
3800
3600
3400
3200

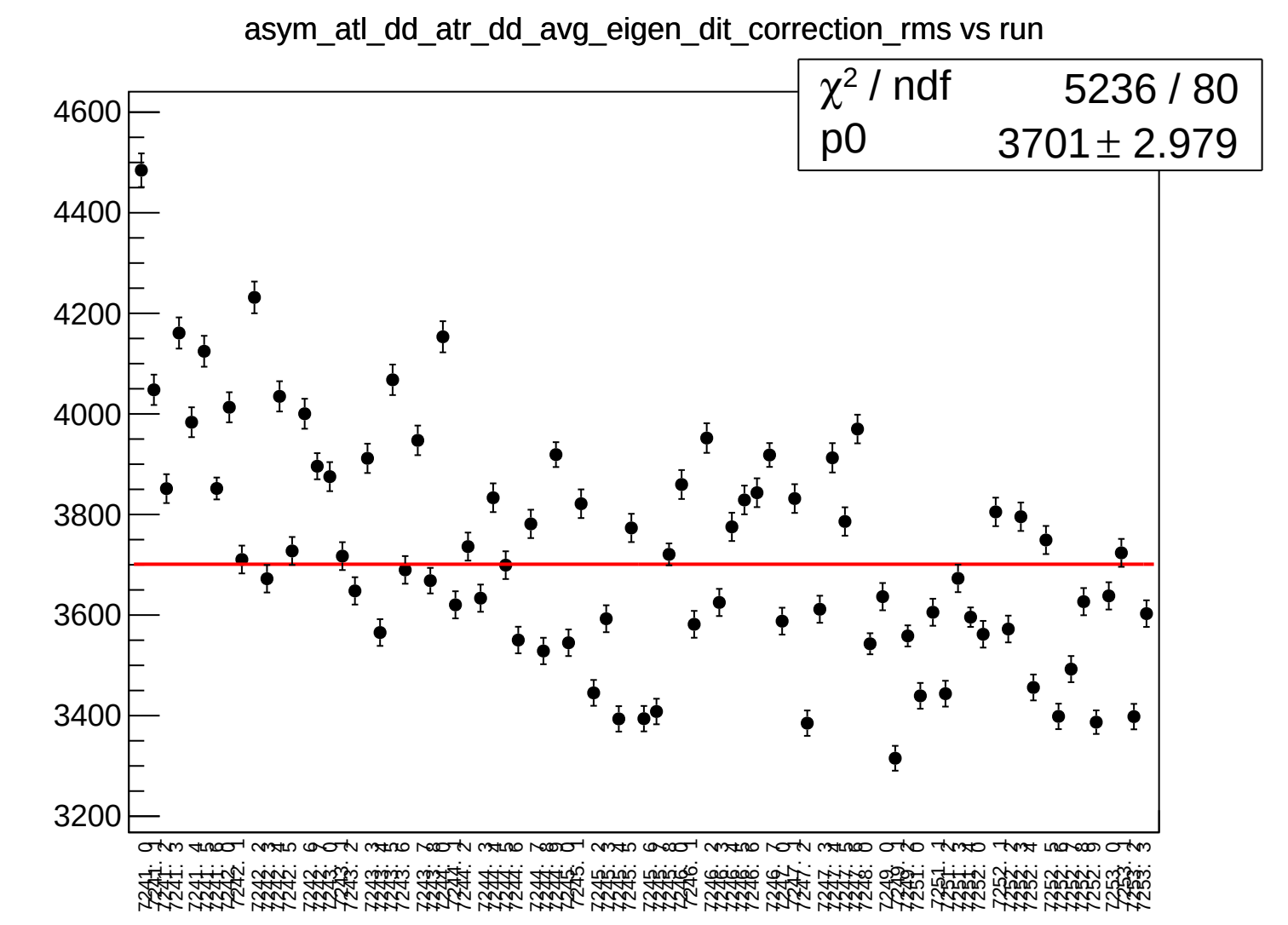

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 75.15 / 80
p0 −100.7 ± 1404
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −4869
Std Dev 0
2
1
0
−1
−2
−3

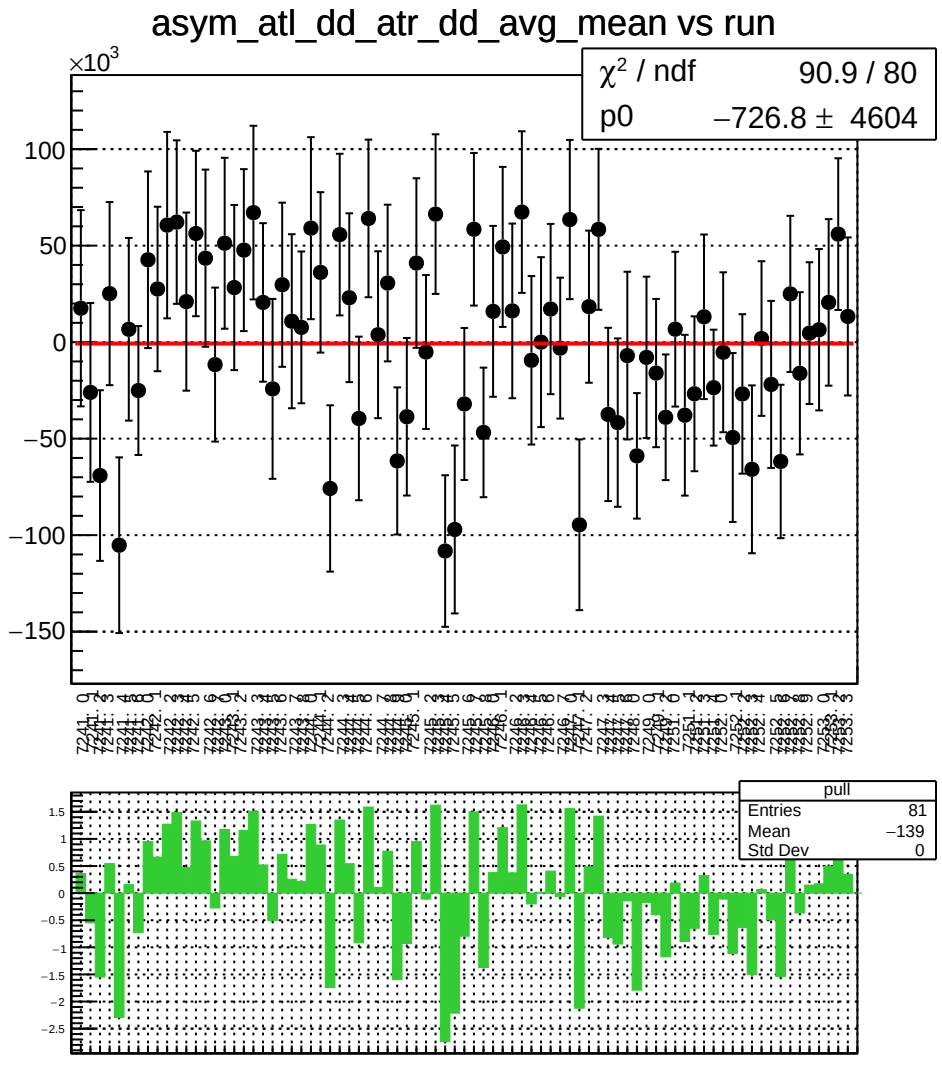

pull1D
Entries 81
Mean 0.0009191
Std Dev 0.9632
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

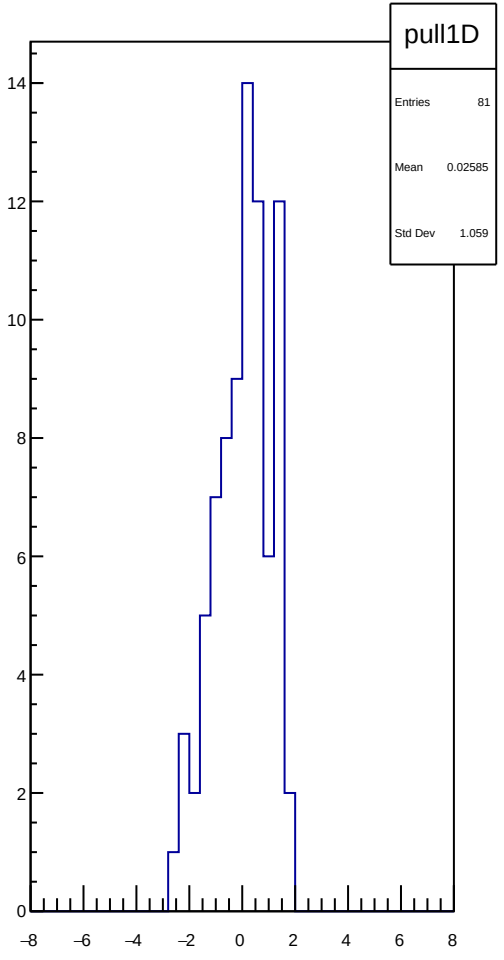

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 128.6 / 80
p0 1235 ± 0.9925
1270
1260
1250
1240
1230
1220
1210
1200

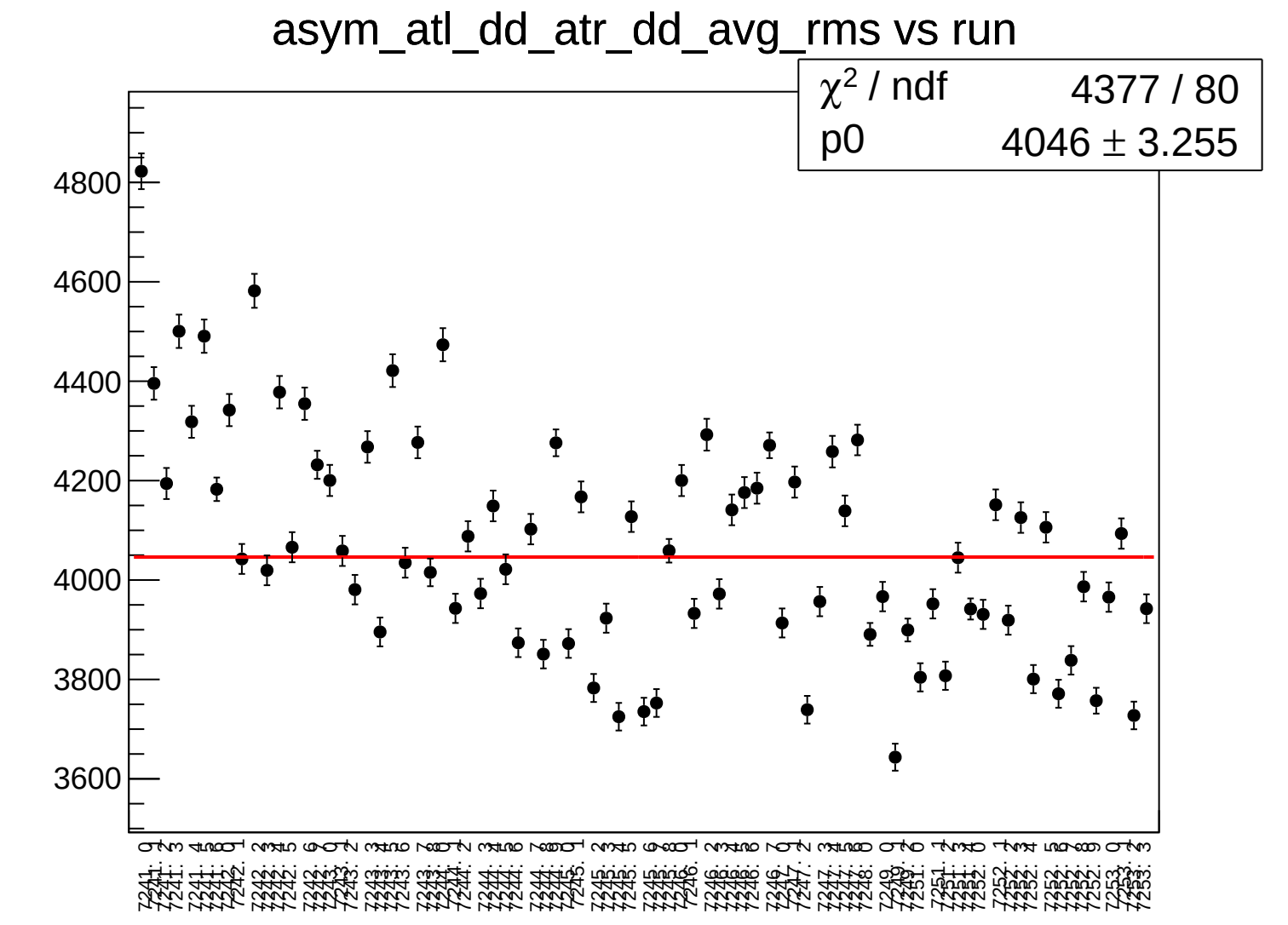

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 94.98 / 80
p0 450.2 ± 4212
150
100
50
0
−50
−100
pull
Entries 81
Mean −97.05
Std Dev 0
2
1
0
−1
−2

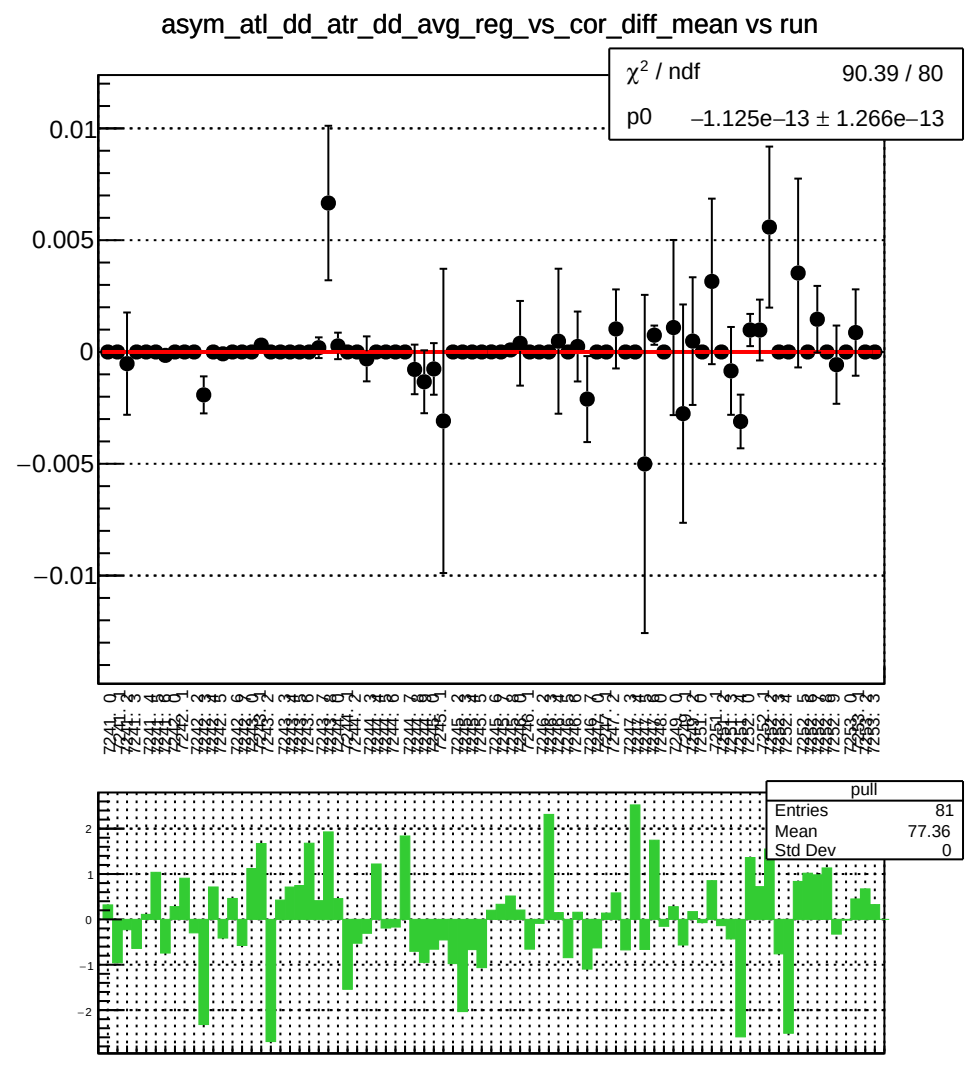

pull1D
Entries 81
Mean −0.0254
Std Dev 1.083
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

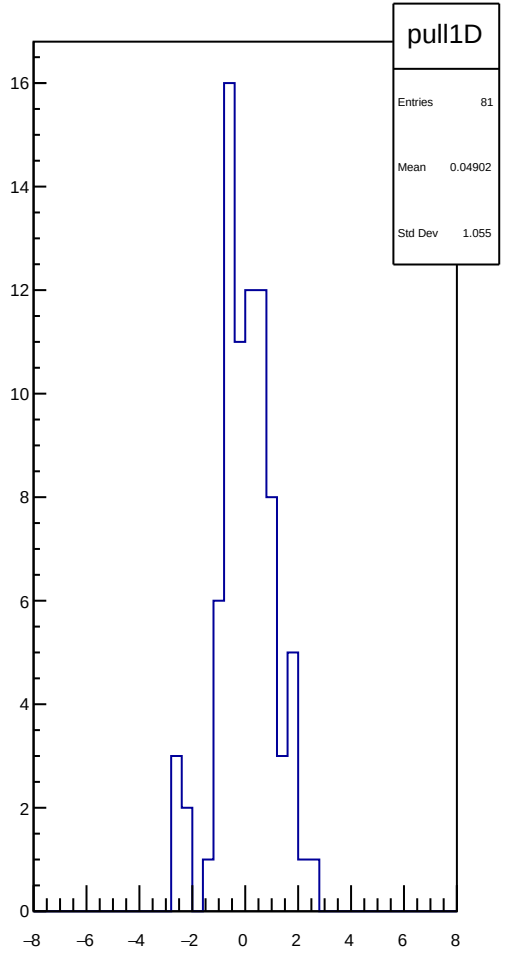

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 5236 / 80
p0 3701 ± 2.979
4600
4400
4200
4000
3800
3600
3400
3200

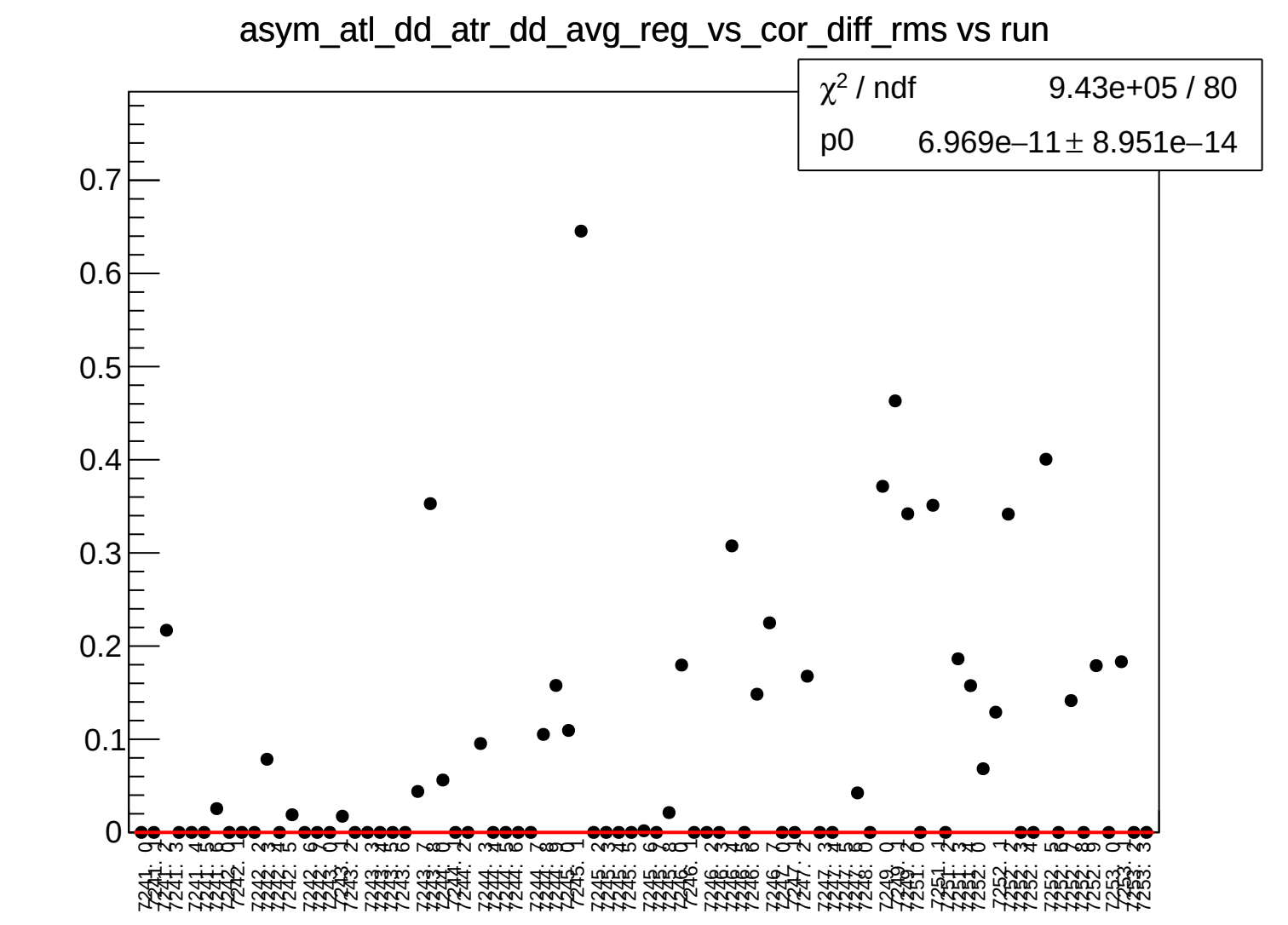

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 90.9 / 80
p0 −726.8 ± 4604
100
50
0
−50
−100
−150
pull
Entries 81
Mean −139
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

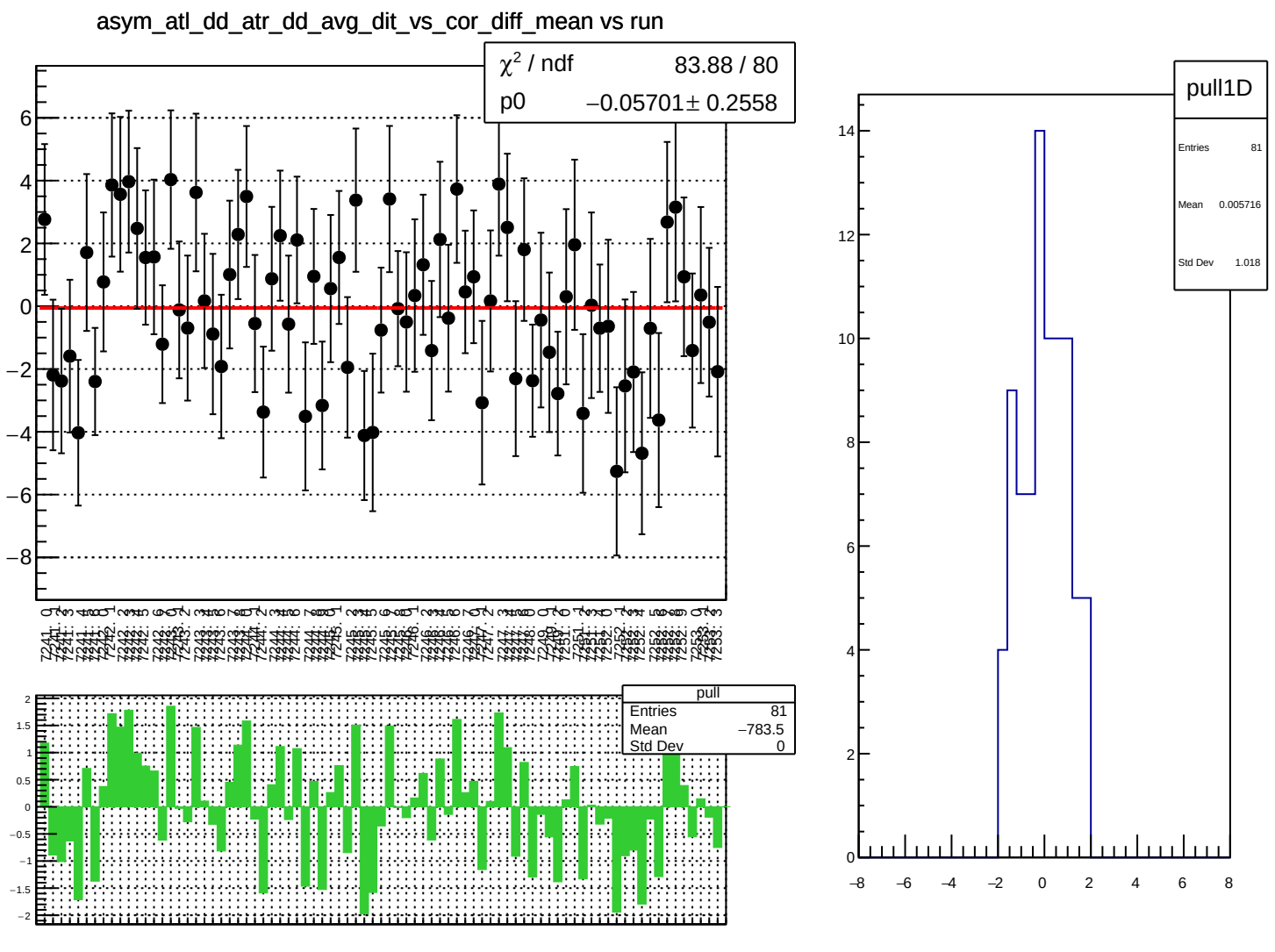

pull1D
Entries 81
Mean 0.02585
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

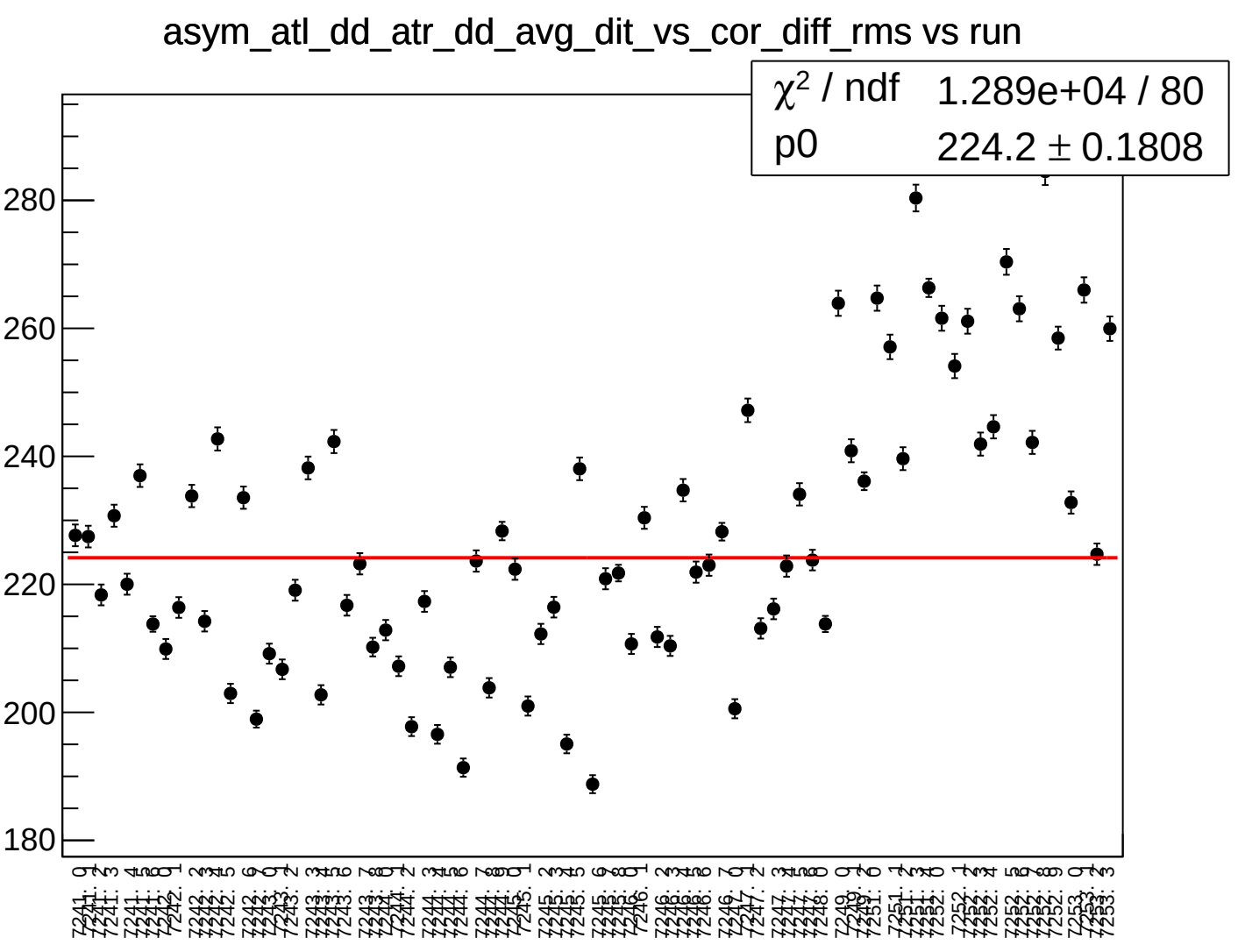

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 4377 / 80
p0 4046 ± 3.255
4800
4600
4400
4200
4000
3800
3600

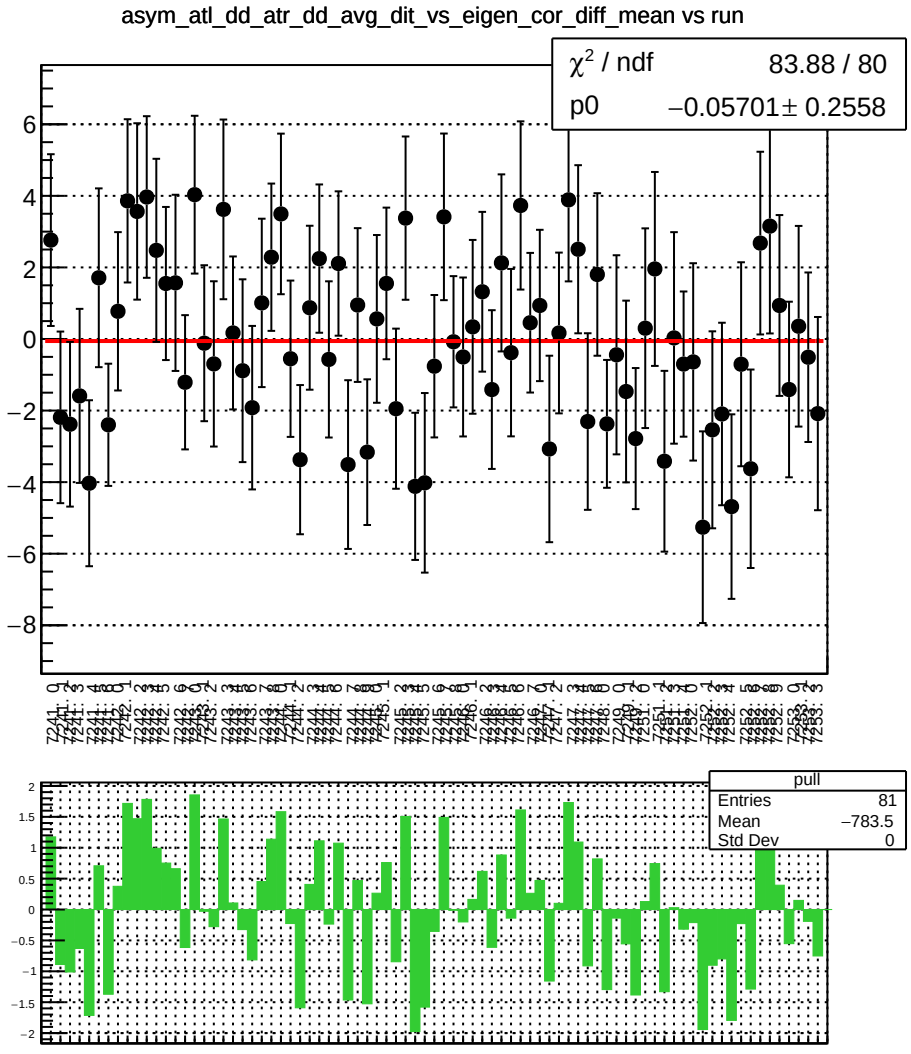

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 90.39 / 80
p0 −1.125e−13 ± 1.266e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 81
Mean 77.36
Std Dev 0
2
1
0
−1
−2

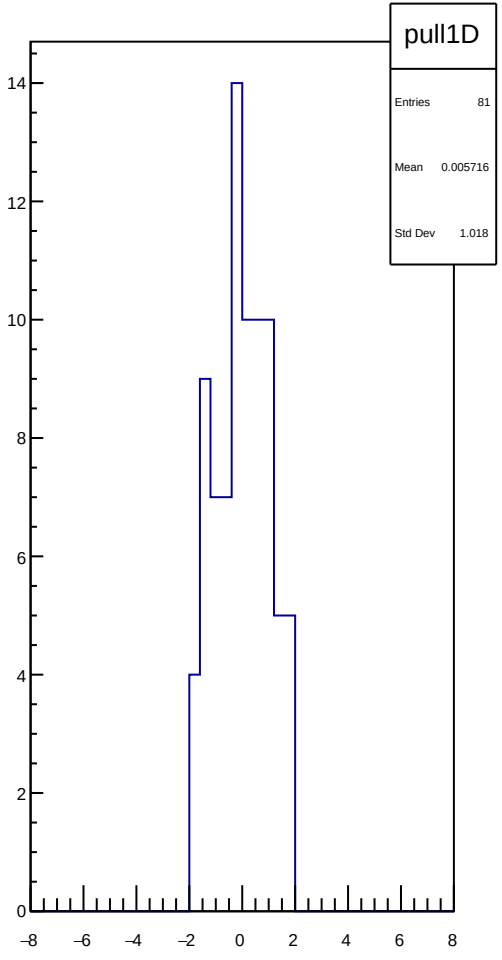

pull1D
Entries 81
Mean 0.04902
Std Dev 1.055
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

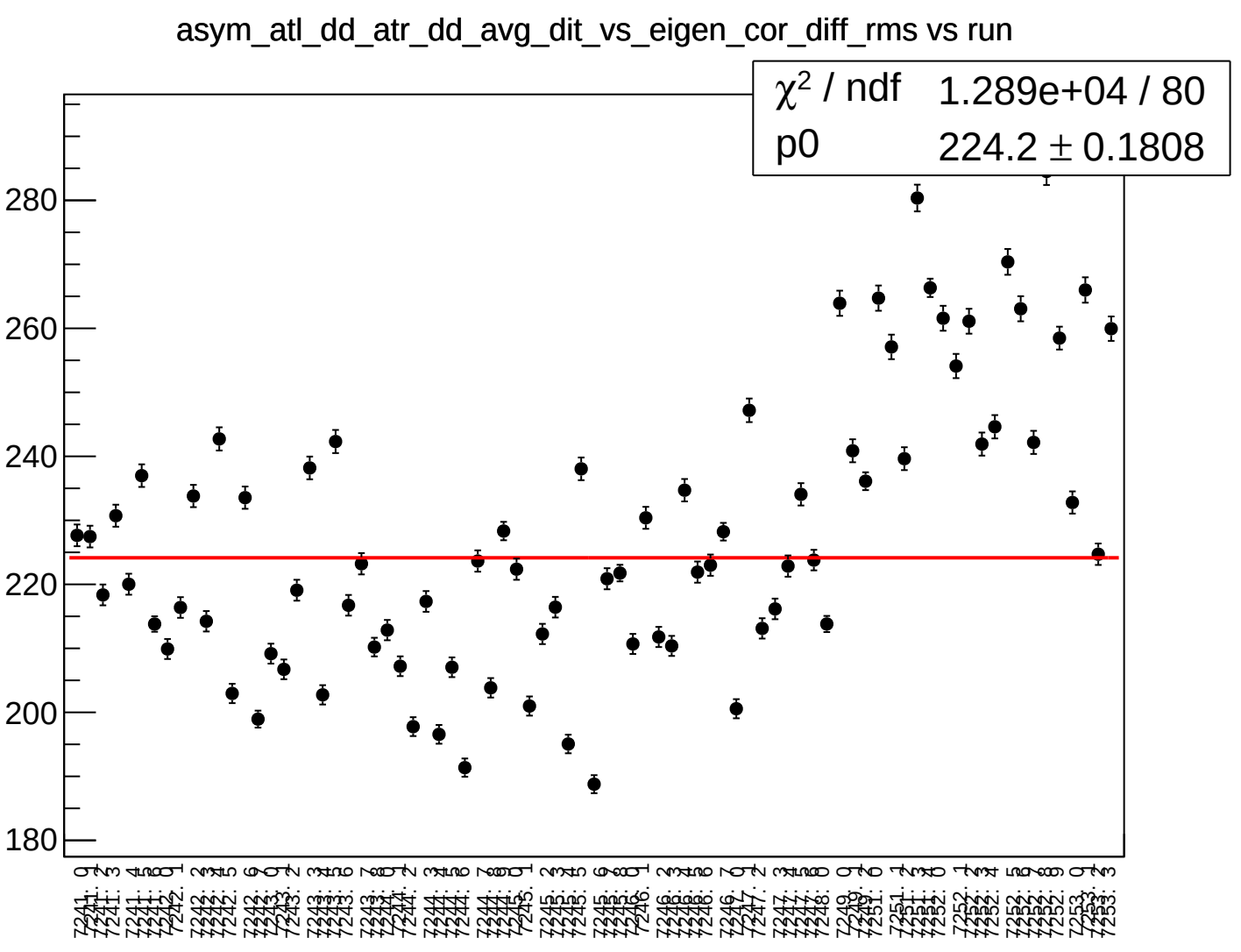

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.43e+05 / 80
p0 6.969e−11 ± 8.951e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

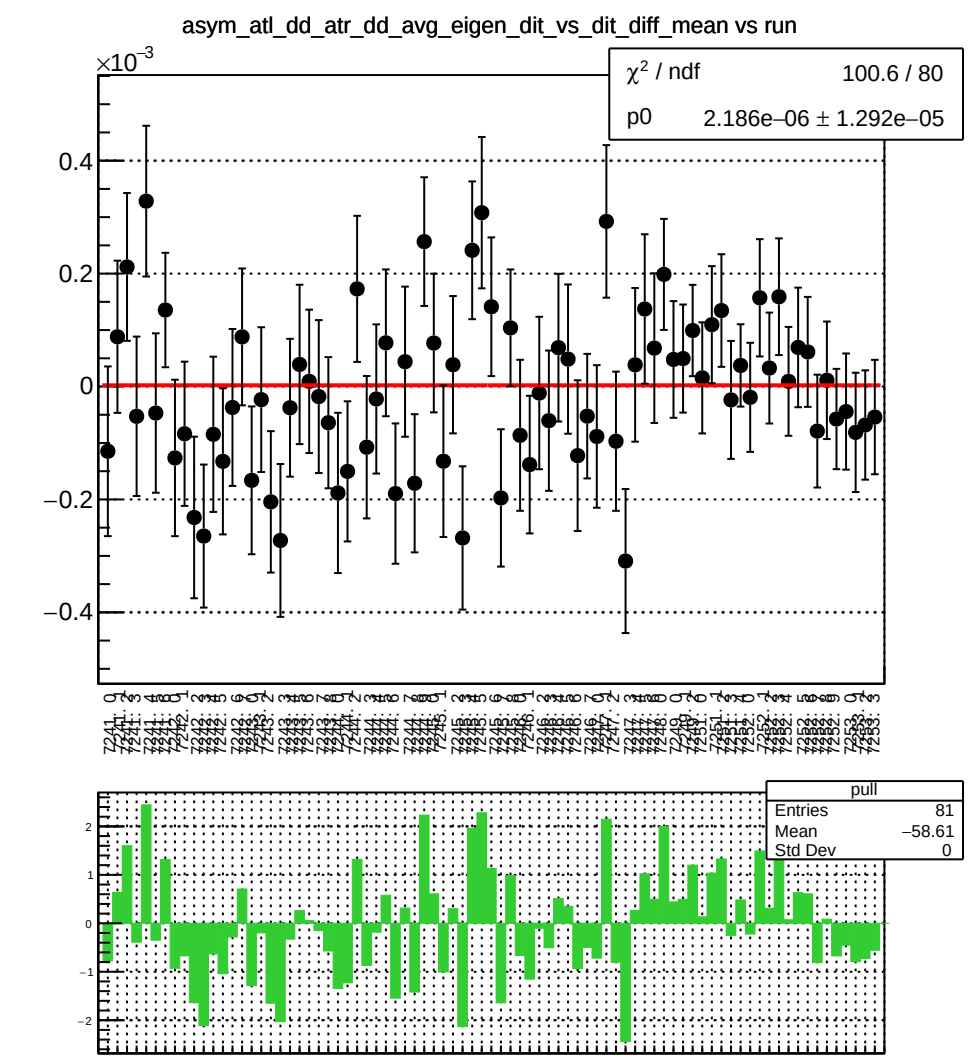

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 83.88 / 80
p0 −0.05701 ± 0.2558
pull
Entries 81
Mean −783.5
Std Dev 0
pull1D
Entries 81
Mean 0.005716
Std Dev 1.018

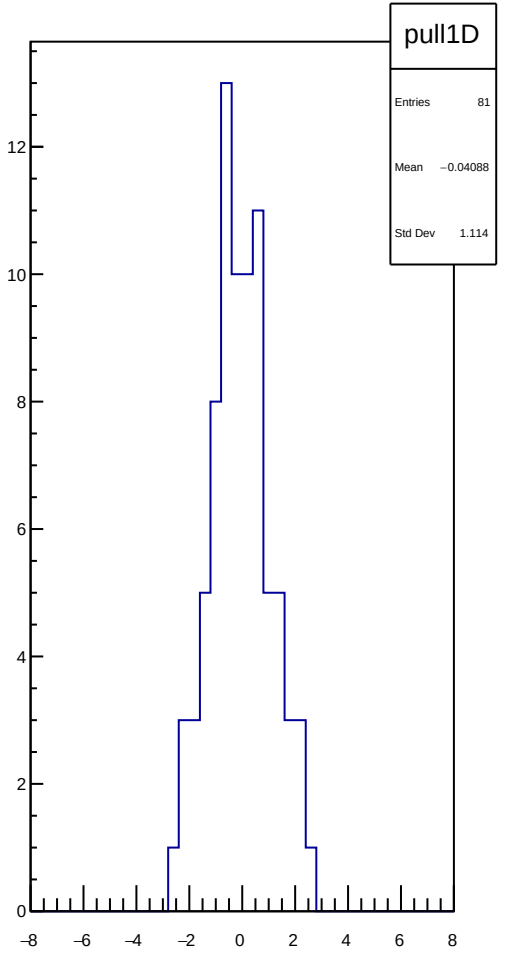

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.289e+04 / 80
p0 224.2 ± 0.1808
280
260
240
220
200
180

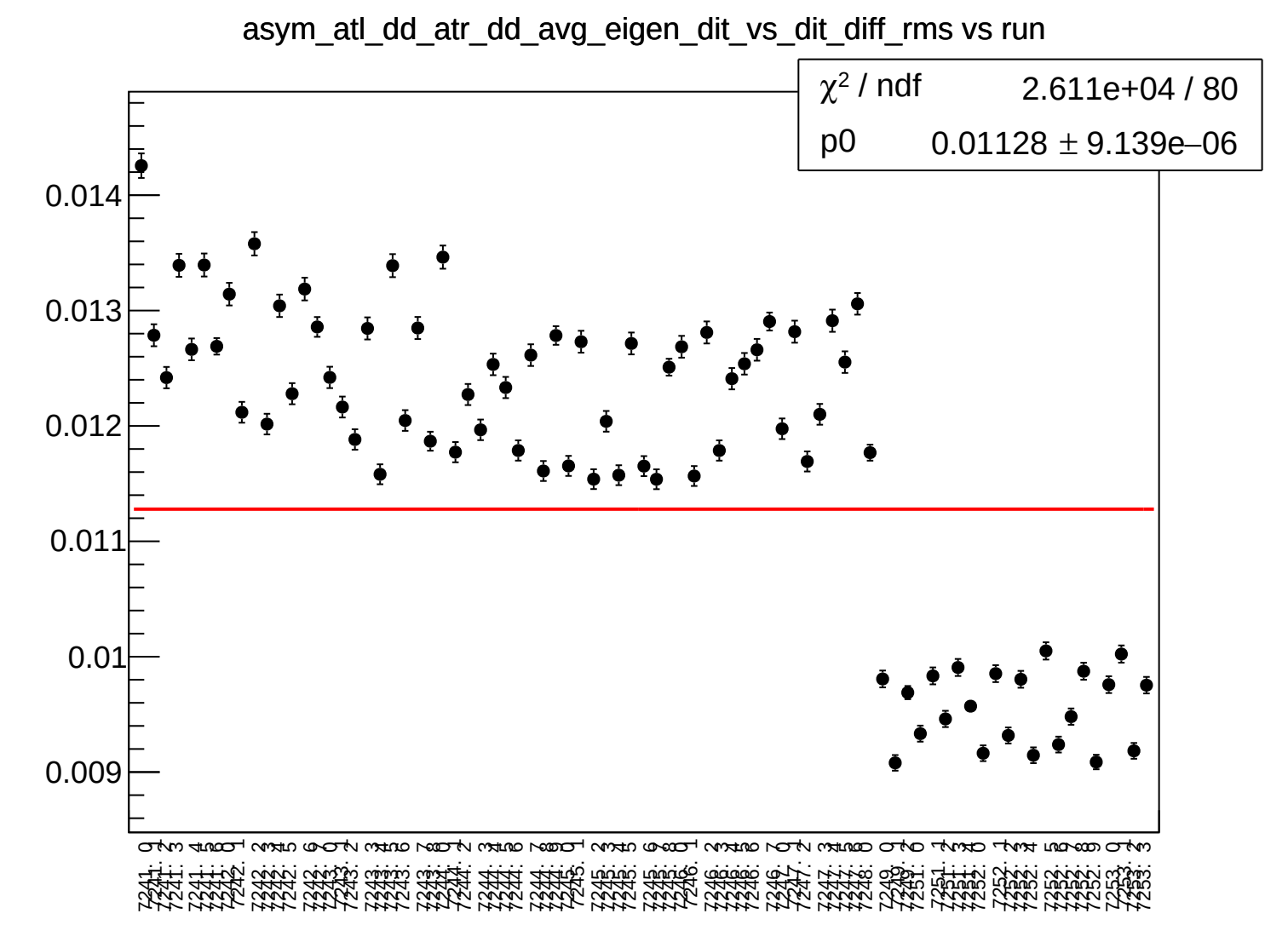

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.88 / 80
p0 −0.05701 ± 0.2558
pull
Entries 81
Mean −783.5
Std Dev 0

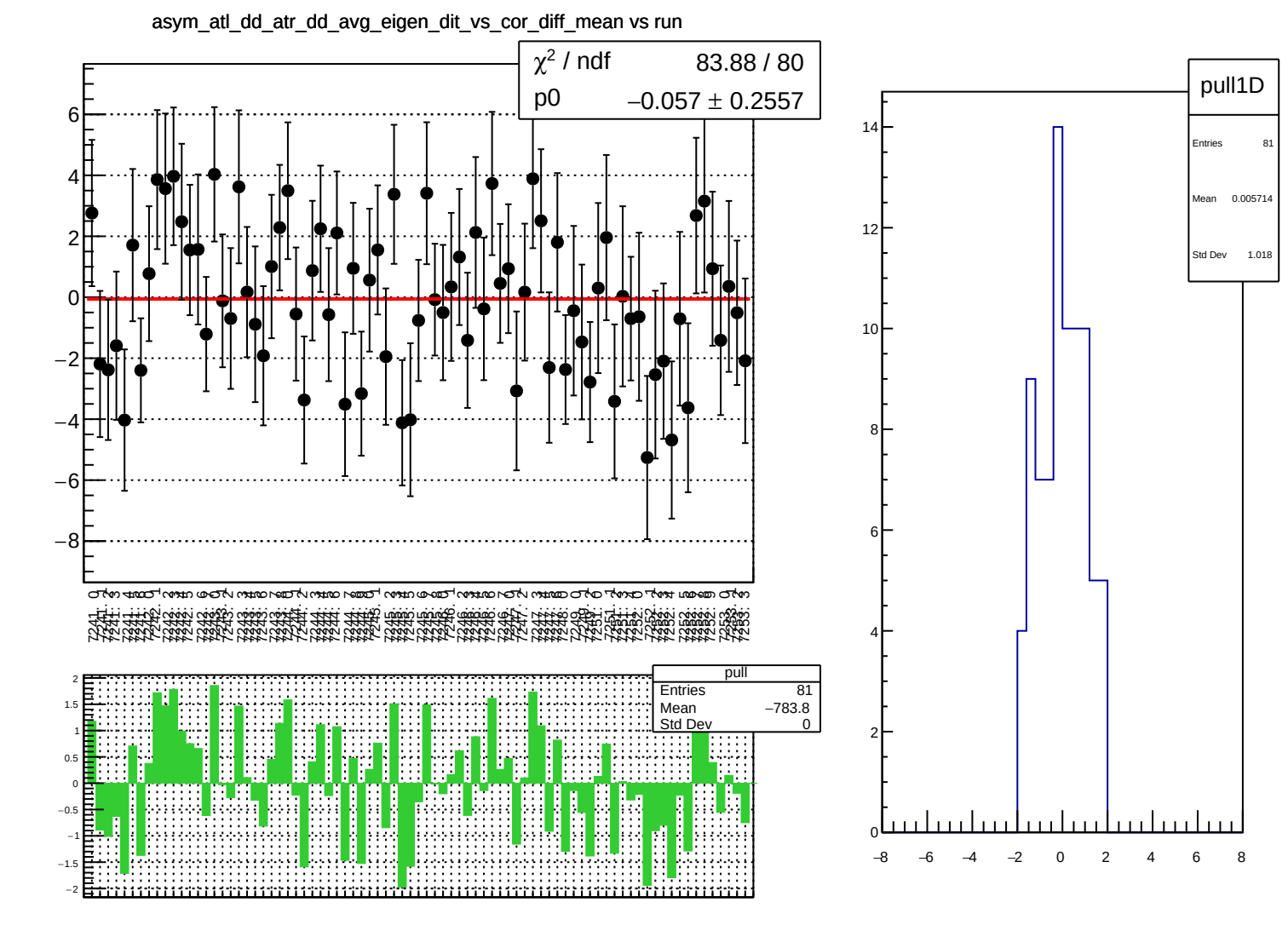

pull1D
Entries 81
Mean 0.005716
Std Dev 1.018

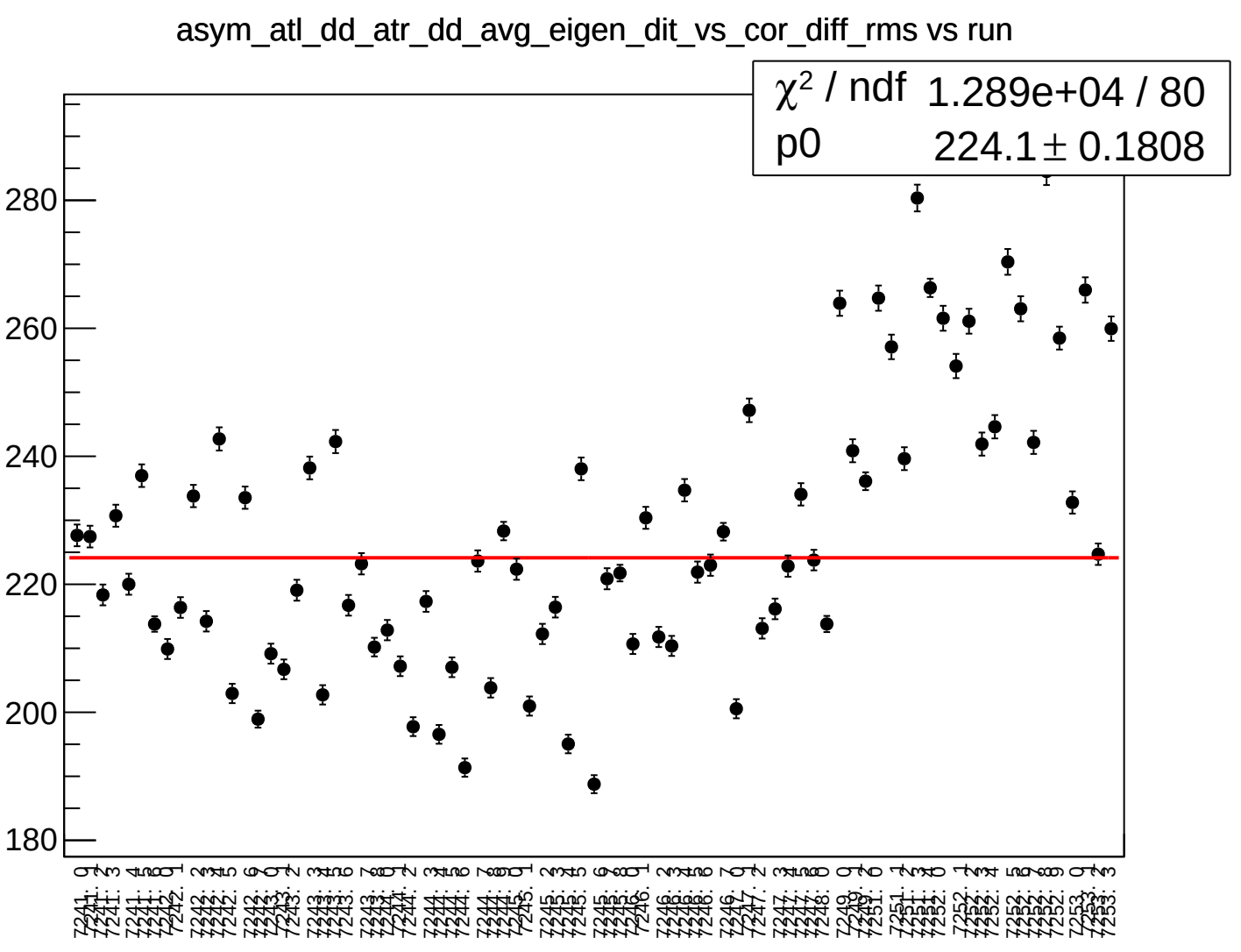

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.289e+04 / 80
p0 224.2 ± 0.1808
280
260
240
220
200
180

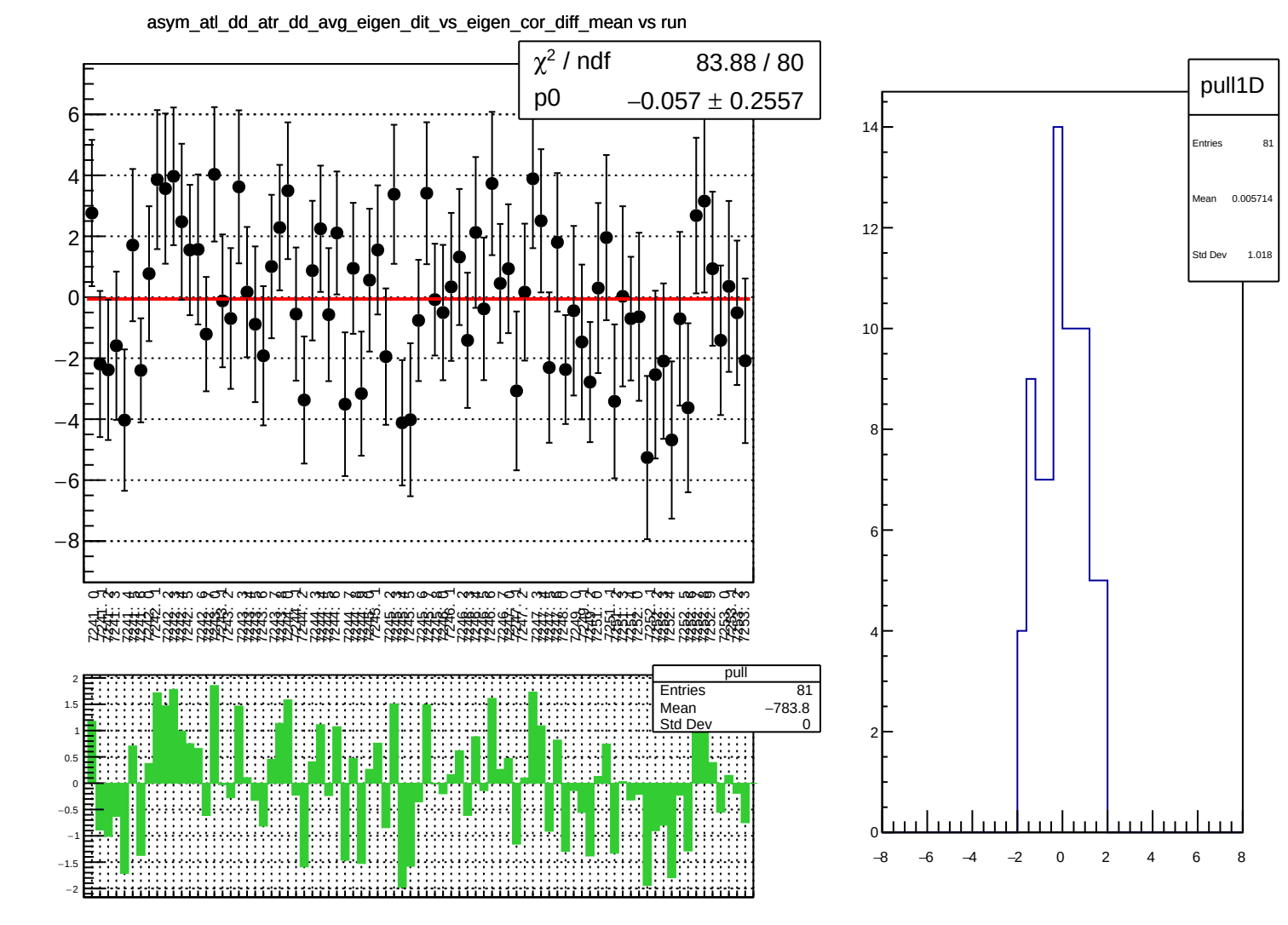

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.6 / 80
p0 2.186e−06 ± 1.292e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 81
Mean −58.61
Std Dev 0
2
1
0
−1
−2

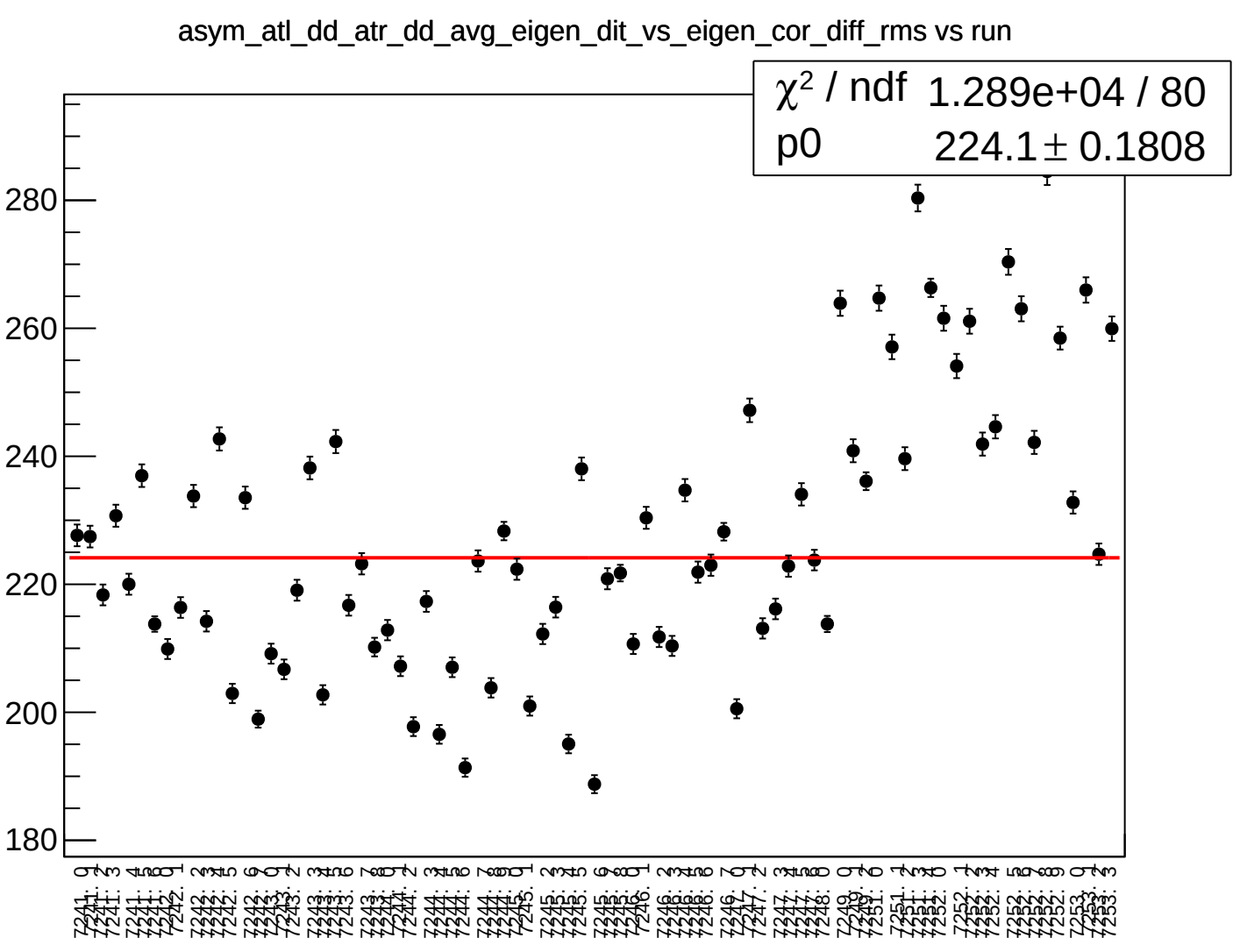

pull1D
Entries 81
Mean −0.04088
Std Dev 1.114
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

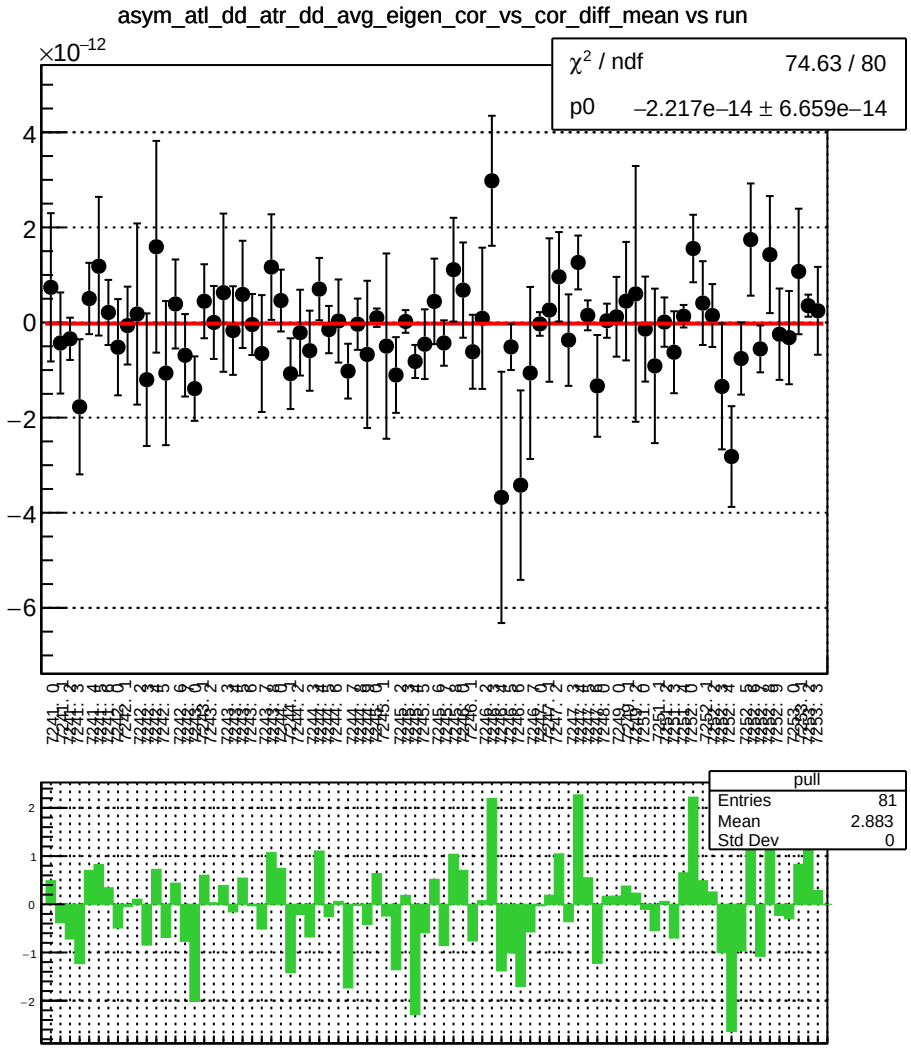

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.611e+04 / 80
p0 0.01128 ± 9.139e–06
0.014
0.013
0.012
0.011
0.01
0.009

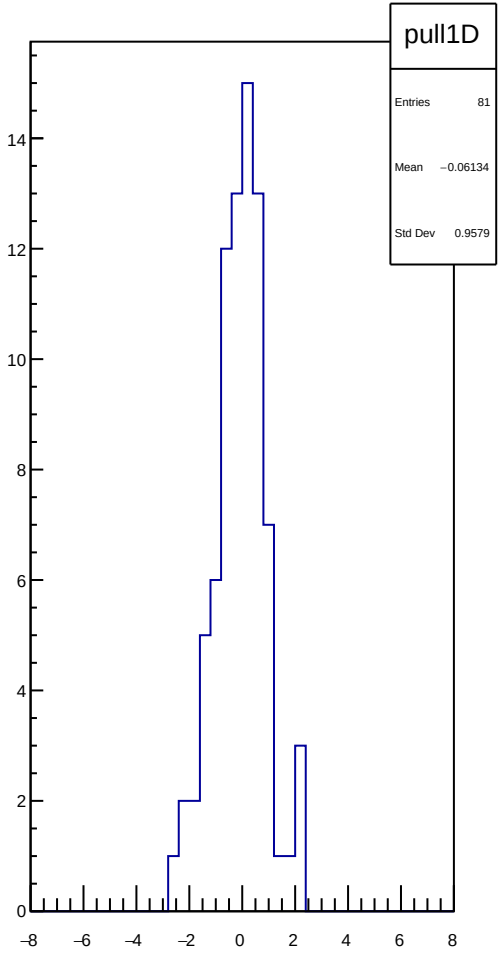

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.88 / 80
p0 −0.057 ± 0.2557
pull
Entries 81
Mean −783.8
Std Dev 0
pull1D
Entries 81
Mean 0.005714
Std Dev 1.018

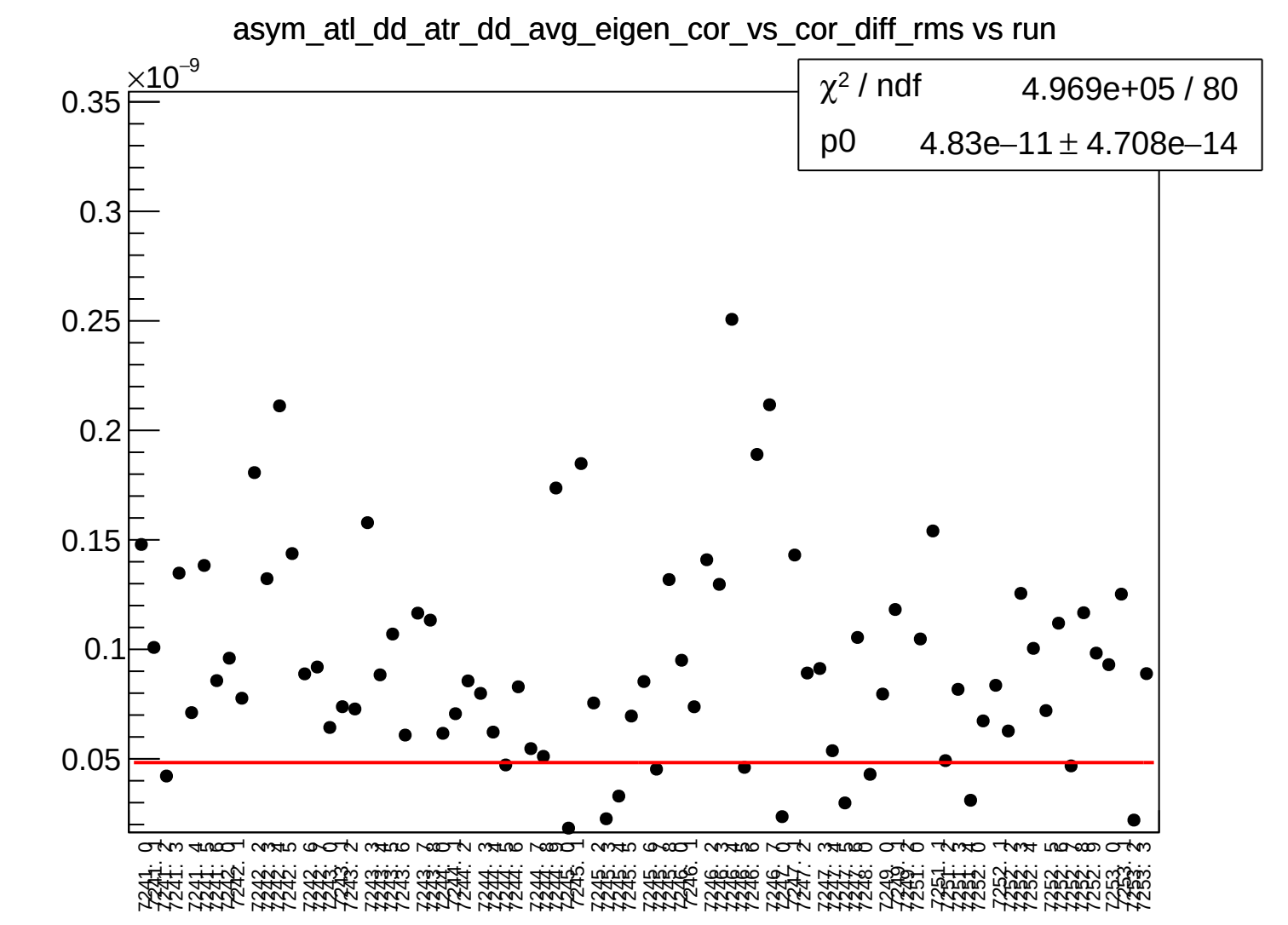

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.289e+04 / 80
p0 224.1 ± 0.1808
280
260
240
220
200
180

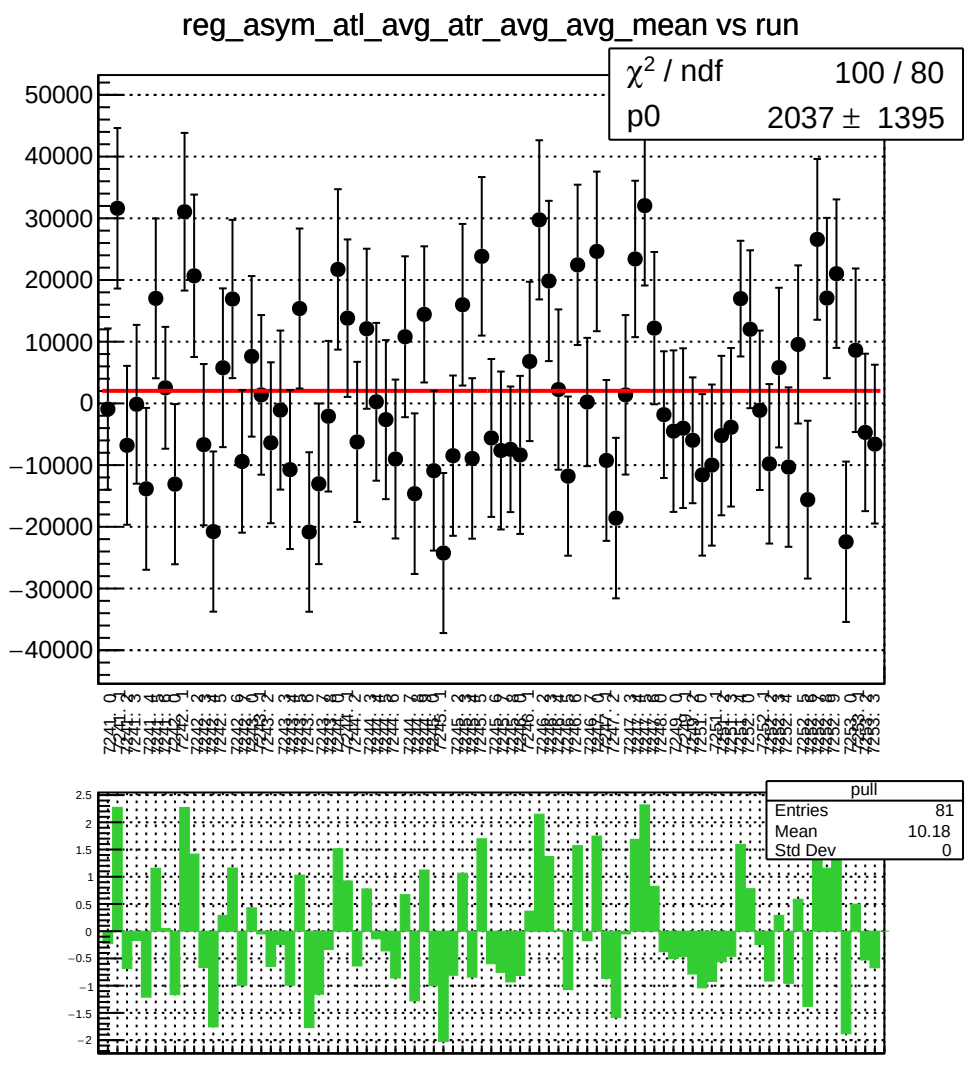

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.88 / 80
p0 −0.057 ± 0.2557
pull
Entries 81
Mean −783.8
Std Dev 0
pull1D
Entries 81
Mean 0.005714
Std Dev 1.018

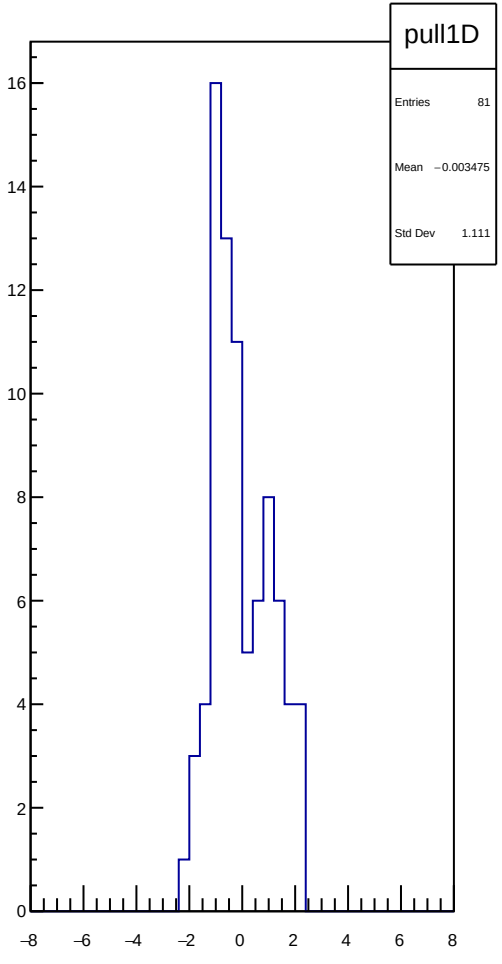

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.289e+04 / 80
p0 224.1 ± 0.1808
280
260
240
220
200
180

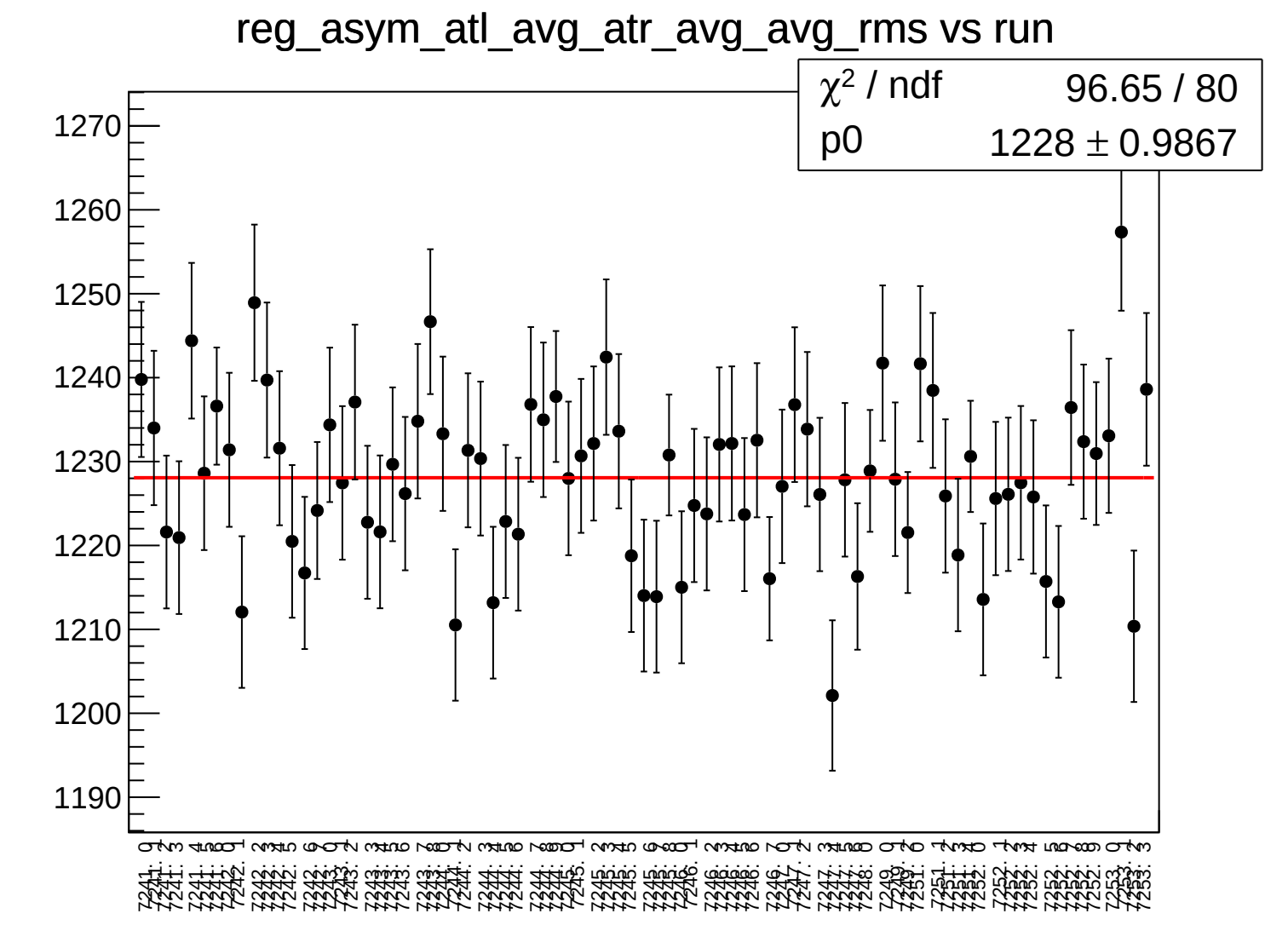

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 74.63 / 80
p0 −2.217e−14 ± 6.659e−14
pull
Entries 81
Mean 2.883
Std Dev 0

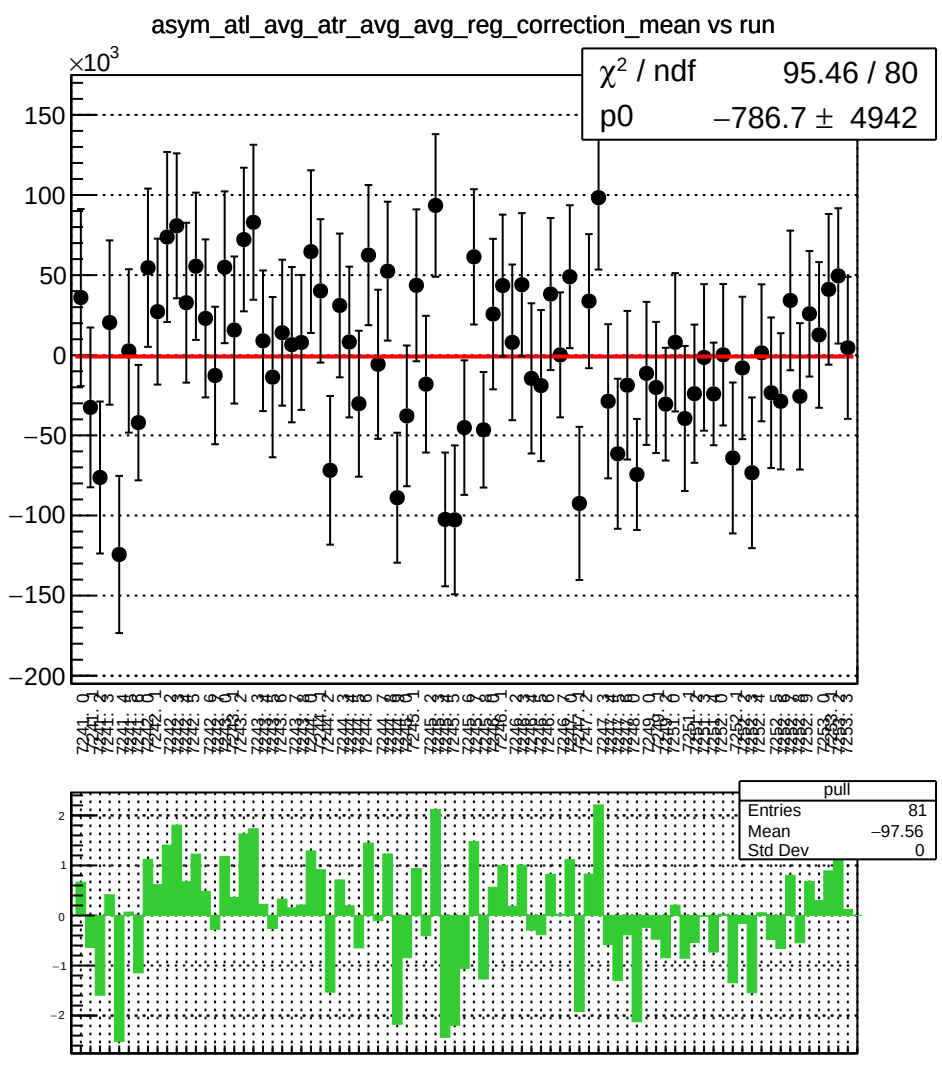

pull1D
Entries 81
Mean −0.06134
Std Dev 0.9579

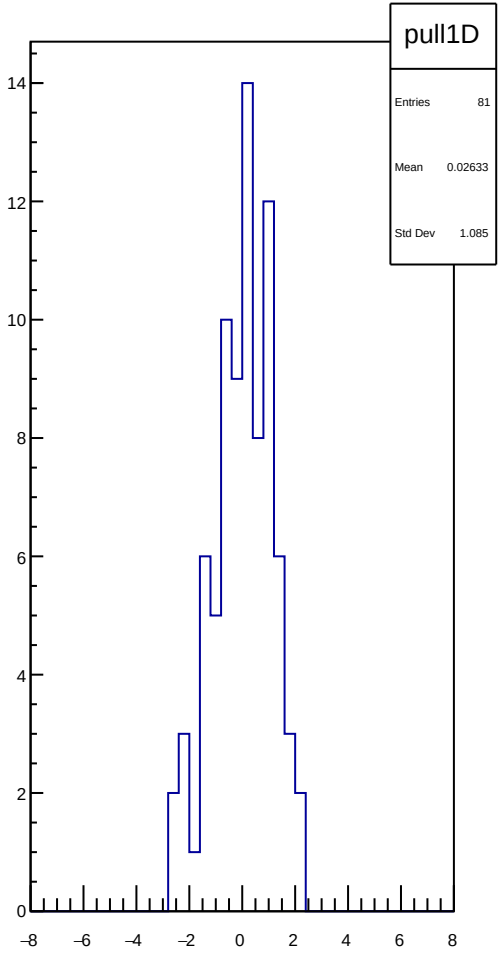

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.969e+05 / 80
p0 4.83e−11 ± 4.708e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

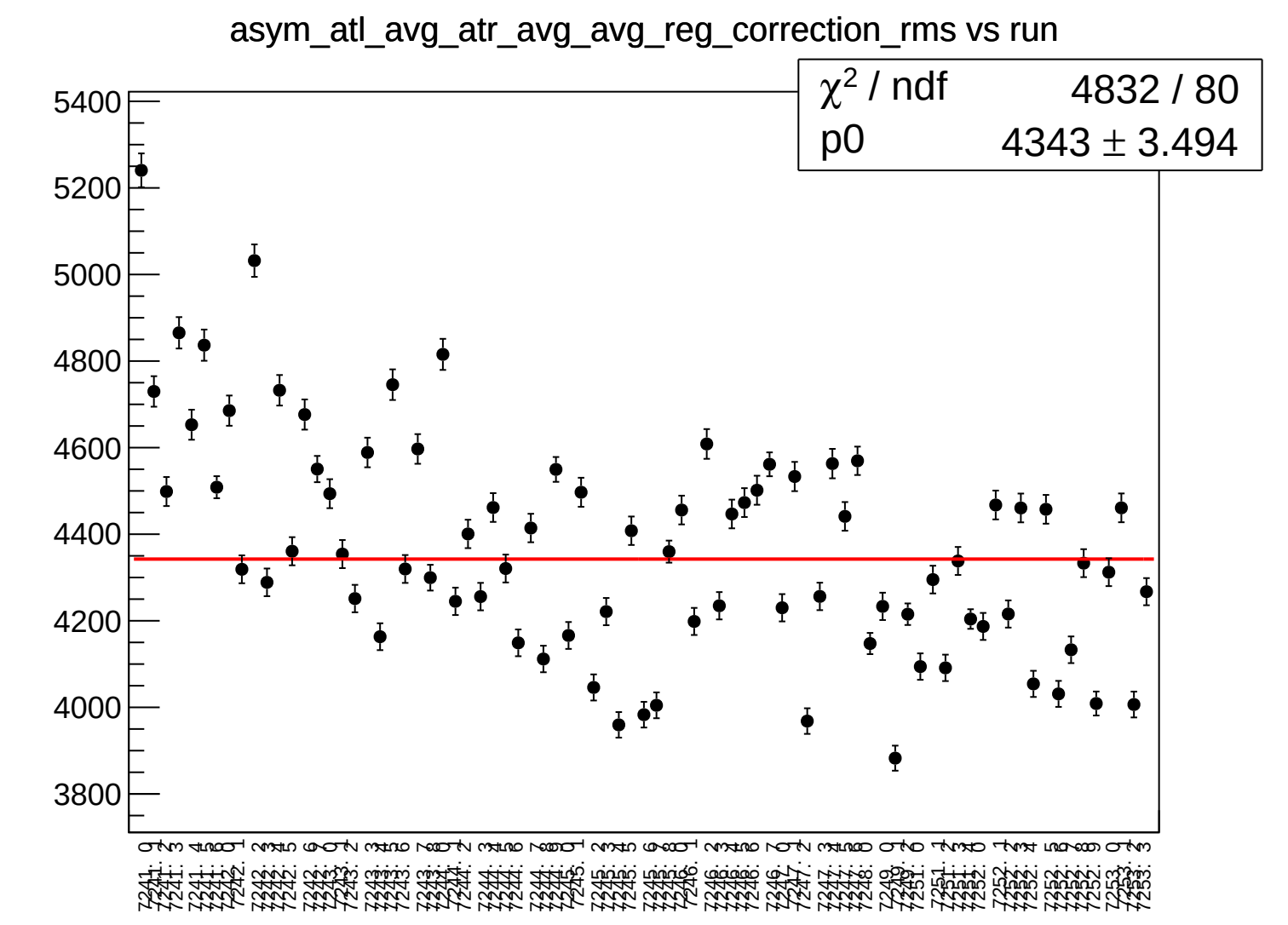

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 100 / 80
p0 2037 ± 1395
pull
Entries 81
Mean 10.18
Std Dev 0

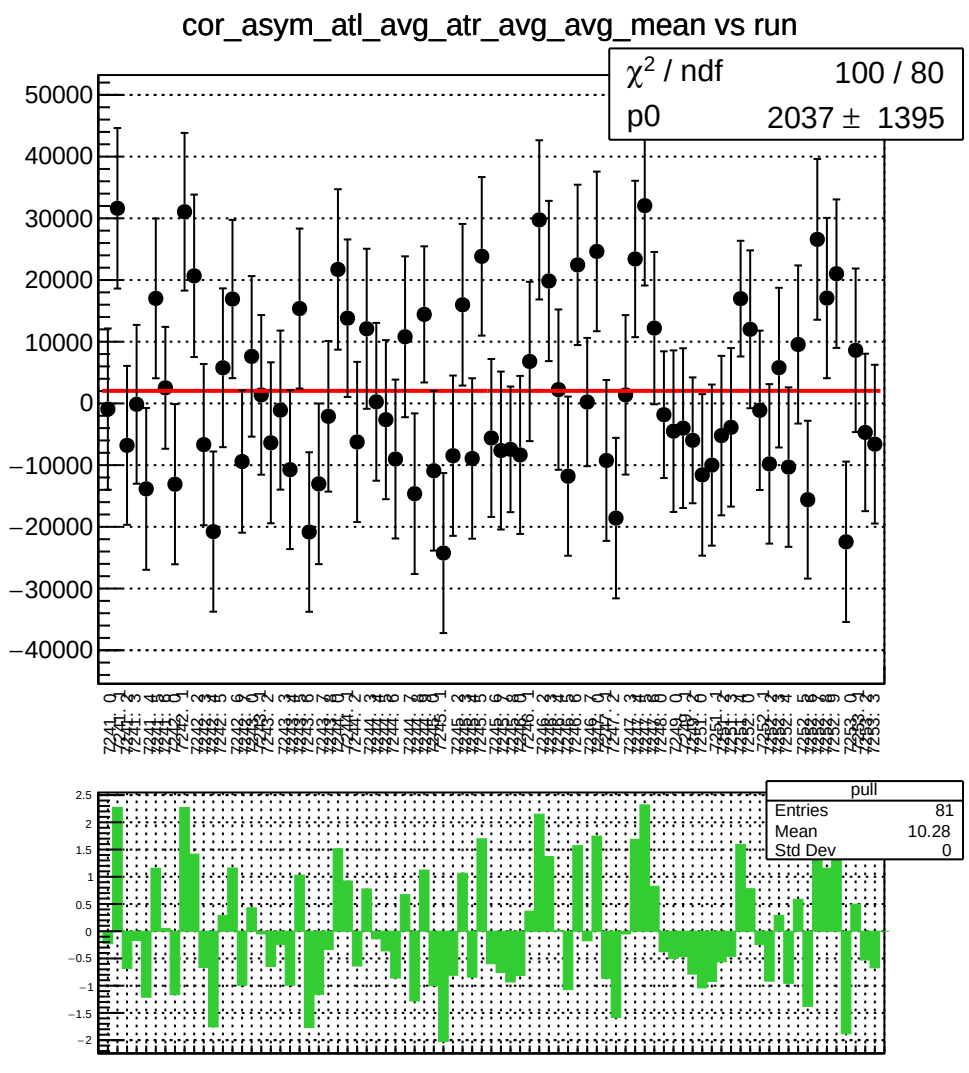

pull1D
Entries 81
Mean −0.003475
Std Dev 1.111

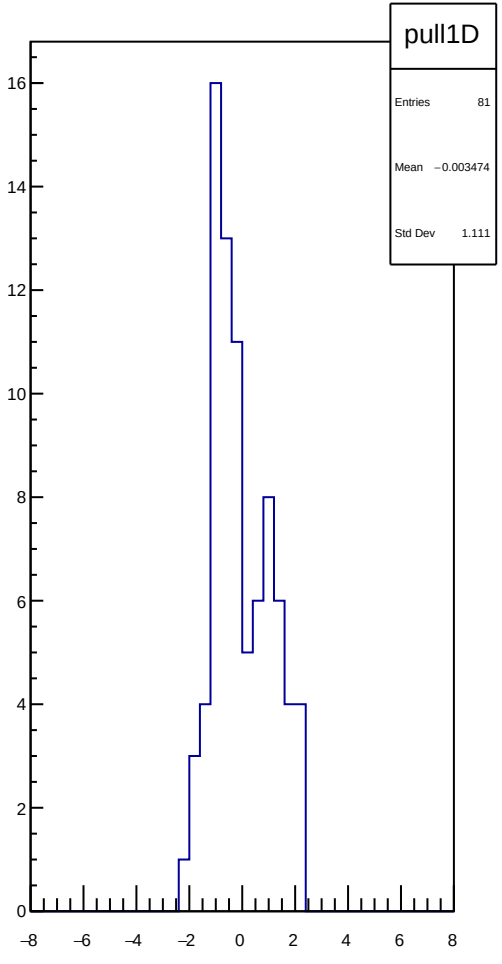

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 96.65 / 80
p0 1228 ± 0.9867
1270
1260
1250
1240
1230
1220
1210
1200
1190

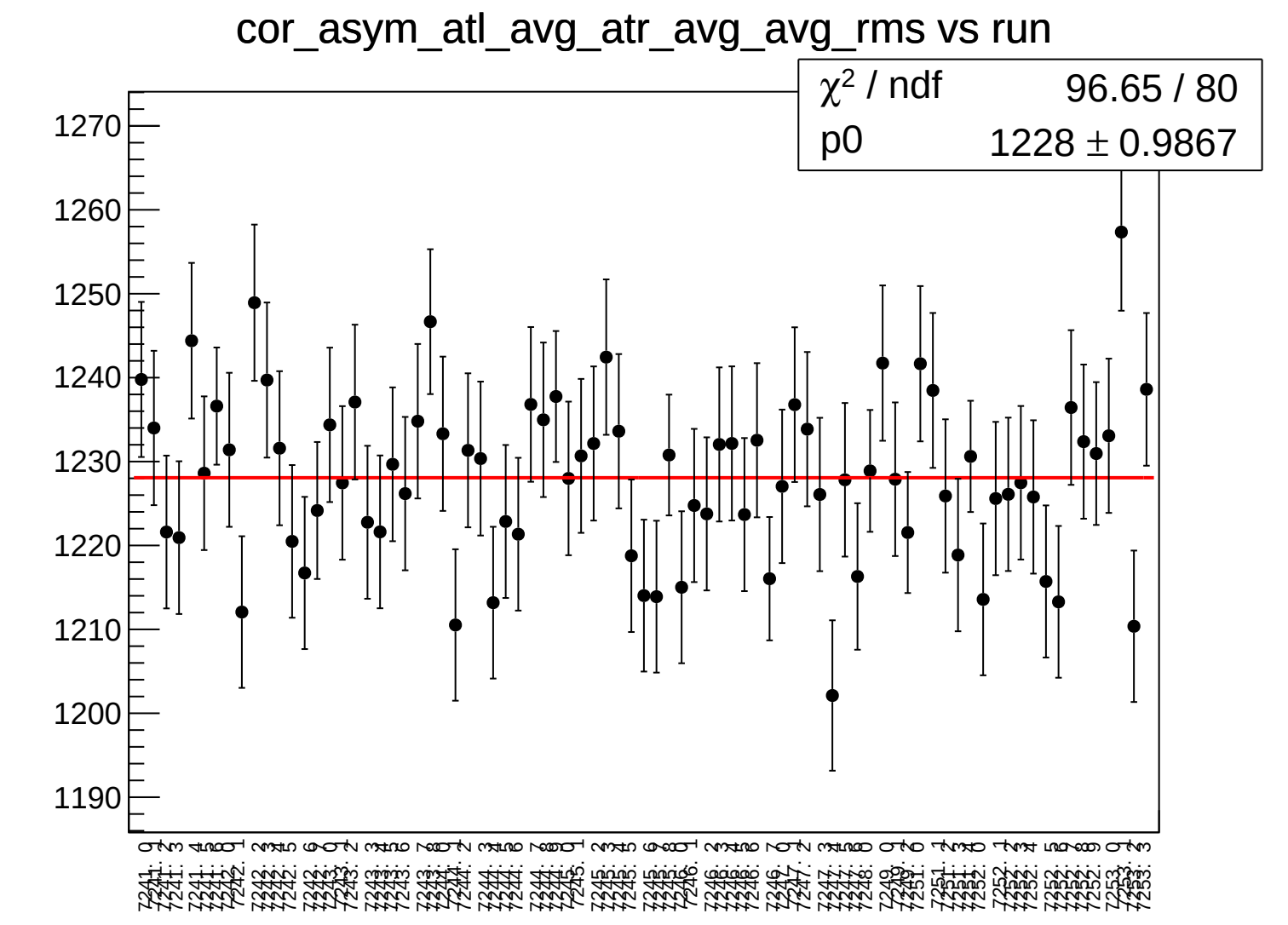

asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 95.46 / 80
p0 −786.7 ± 4942
150
100
50
0
−50
−100
−150
−200
pull
Entries 81
Mean −97.56
Std Dev 0
2
1
0
−1
−2

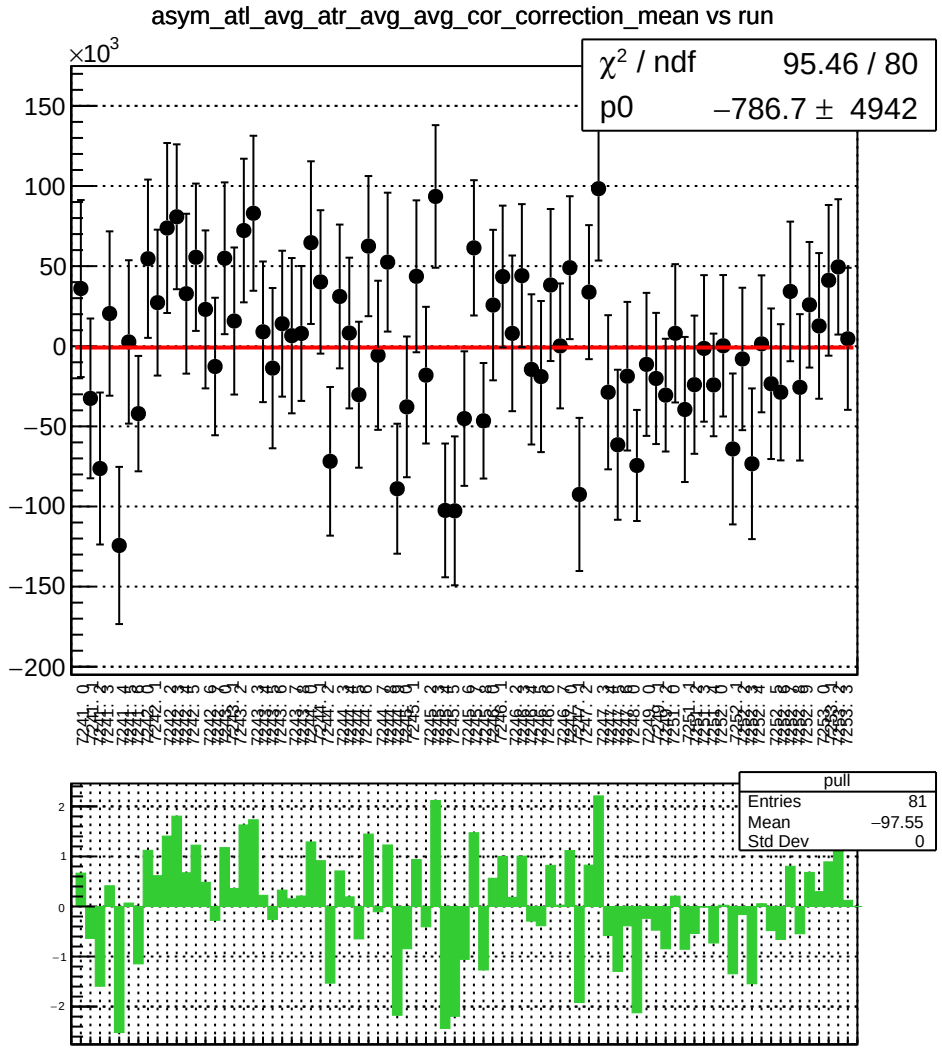

pull1D
Entries 81
Mean 0.02633
Std Dev 1.085
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

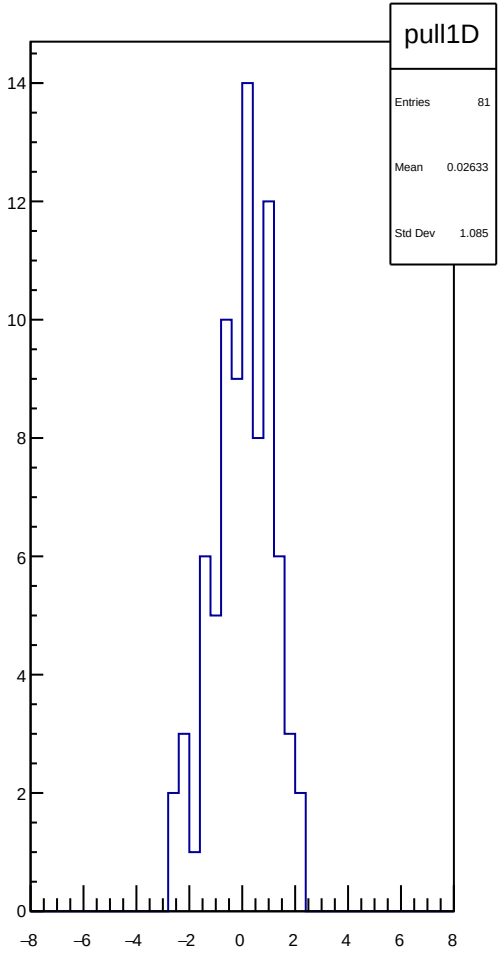

asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 4832 / 80
p0 4343 ± 3.494
5400
5200
5000
4800
4600
4400
4200
4000
3800

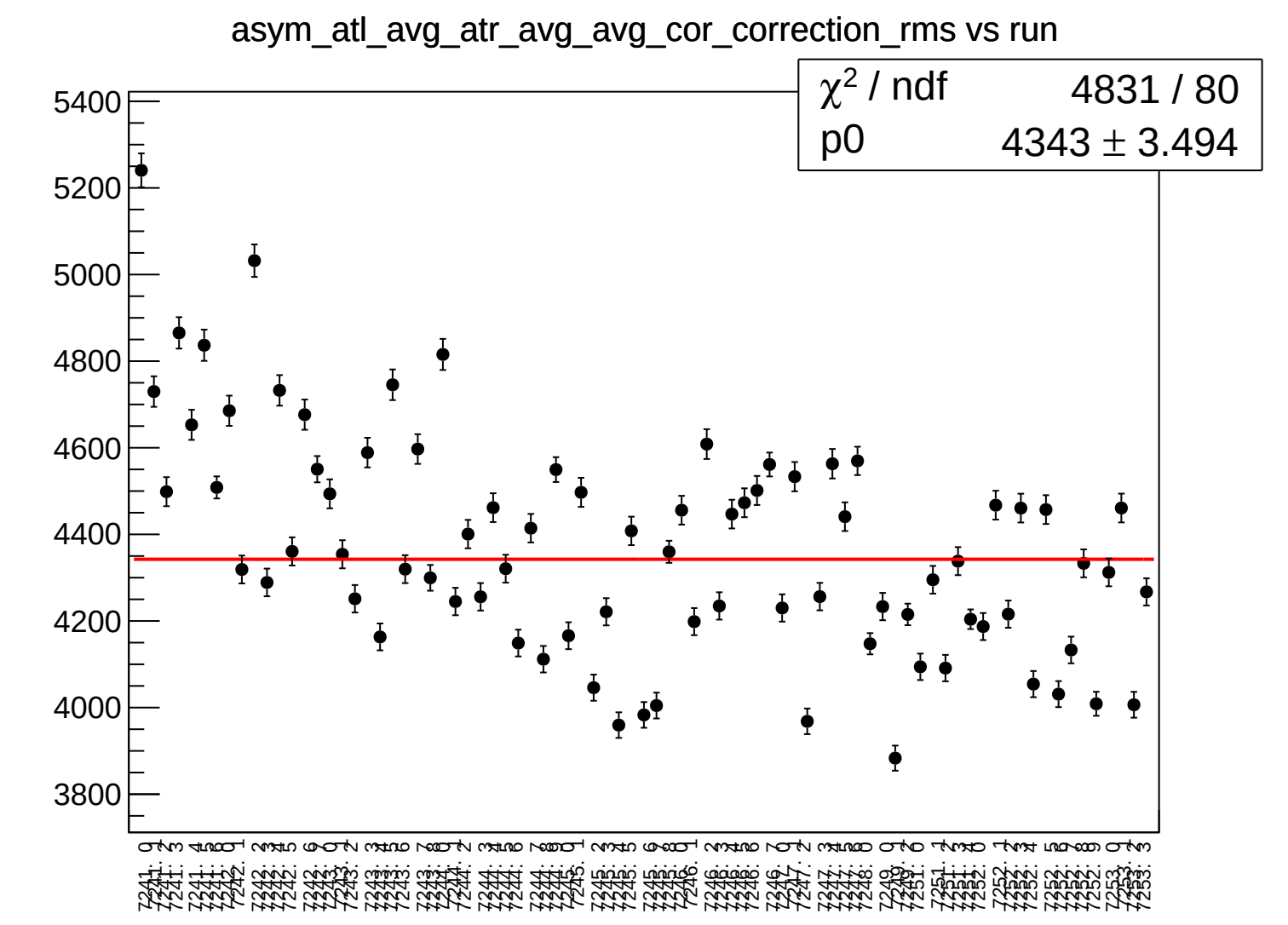

cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 100 / 80
p0 2037 ± 1395
pull
Entries 81
Mean 10.28
Std Dev 0

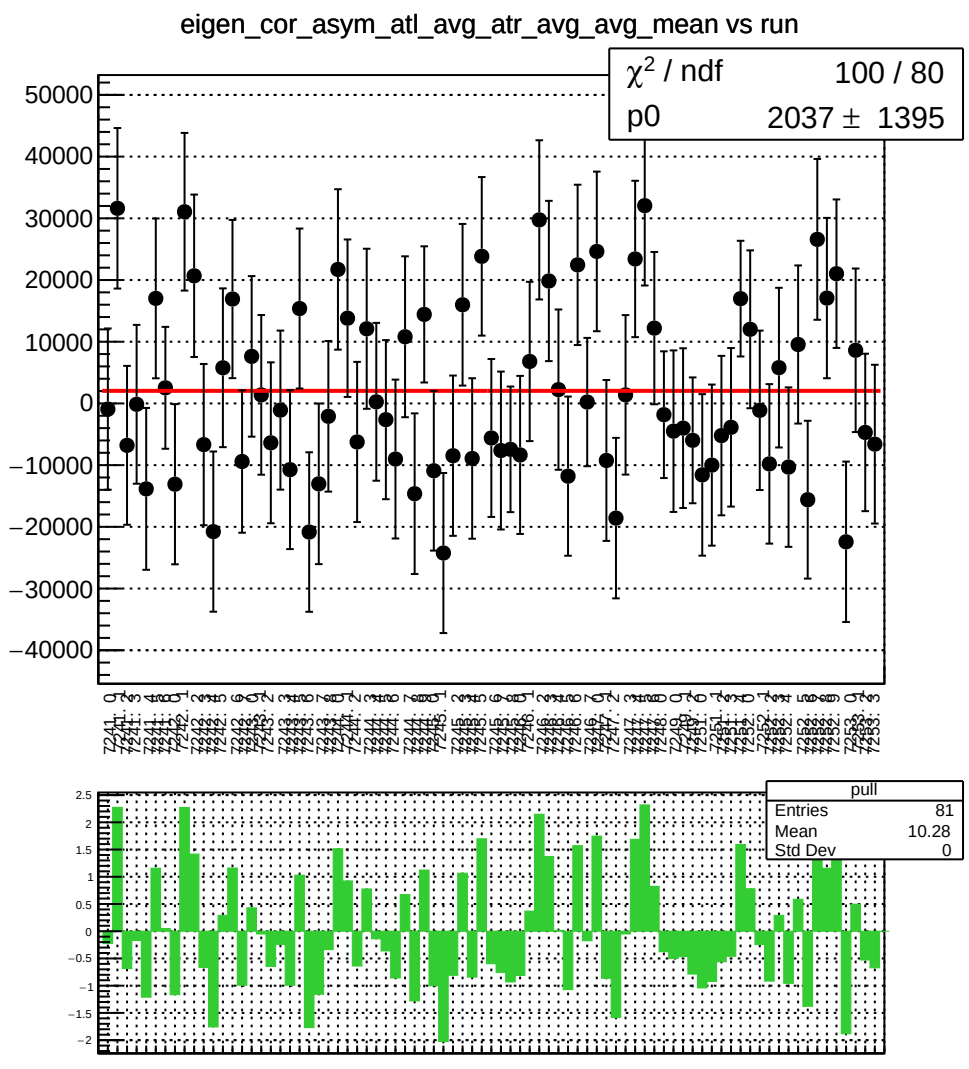

pull1D
Entries 81
Mean −0.003474
Std Dev 1.111

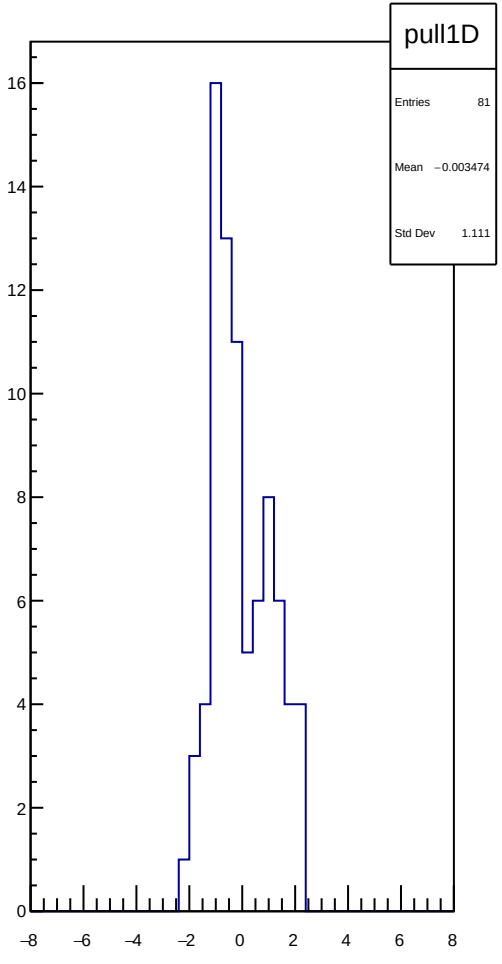

cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 96.65 / 80
p0 1228 ± 0.9867
1270
1260
1250
1240
1230
1220
1210
1200
1190

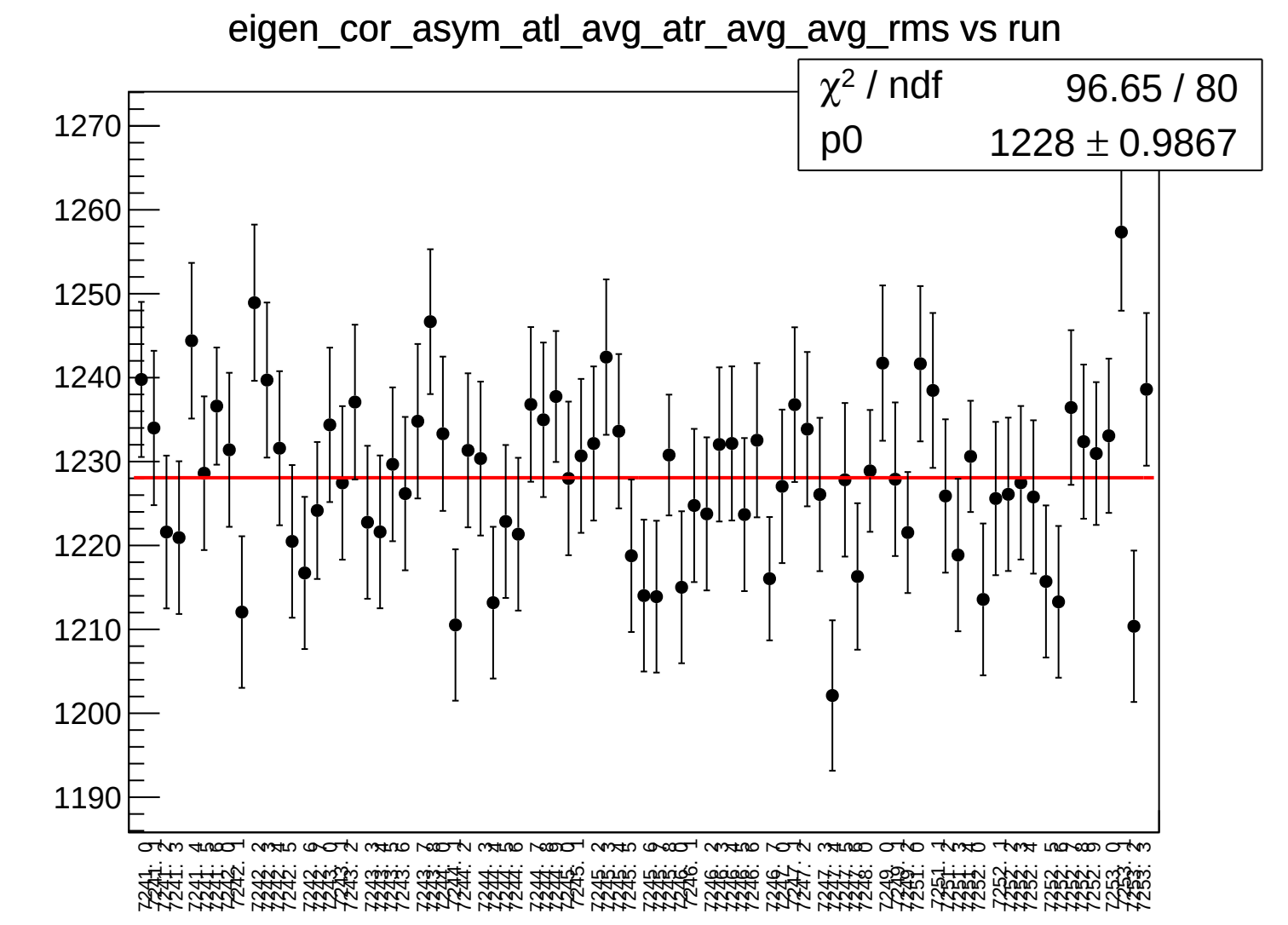

asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
χ² / ndf 95.46 / 80
p0 −786.7 ± 4942
×10³
pull
Entries 81
Mean −97.55
Std Dev 0

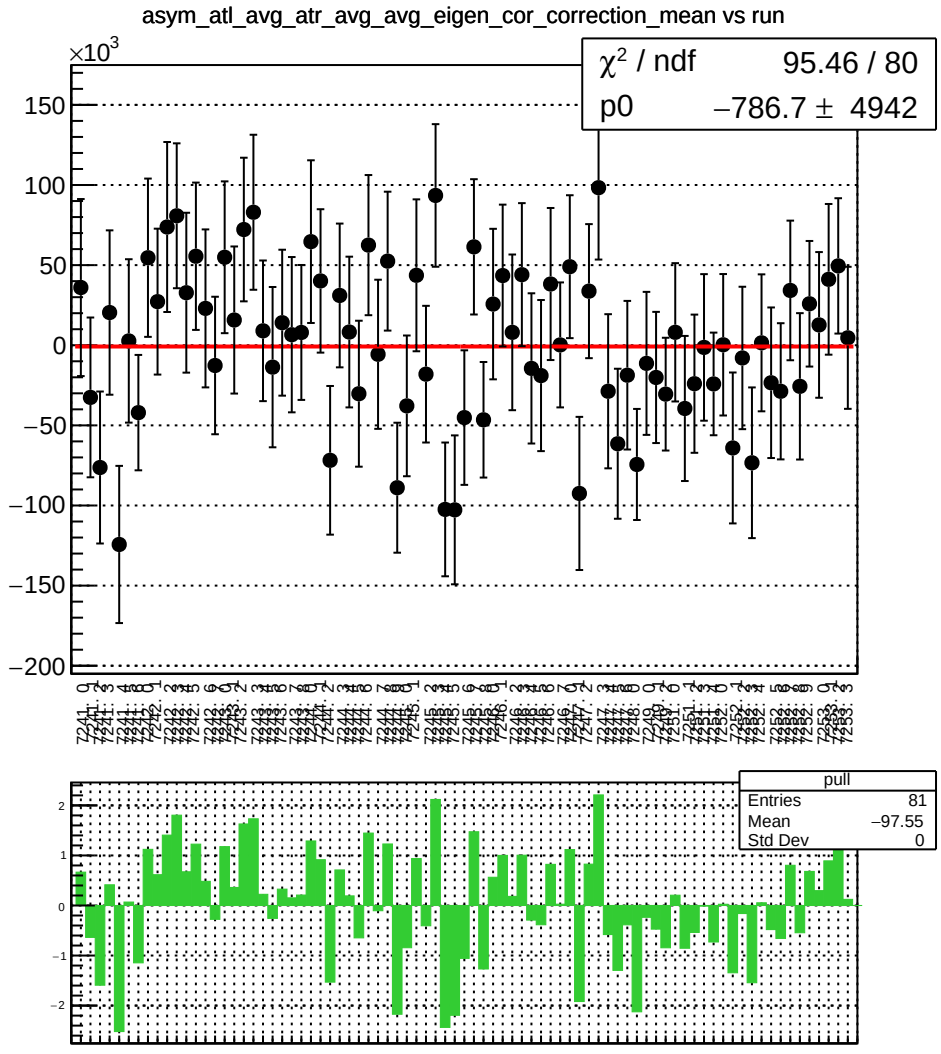

pull1D
Entries 81
Mean 0.02633
Std Dev 1.085

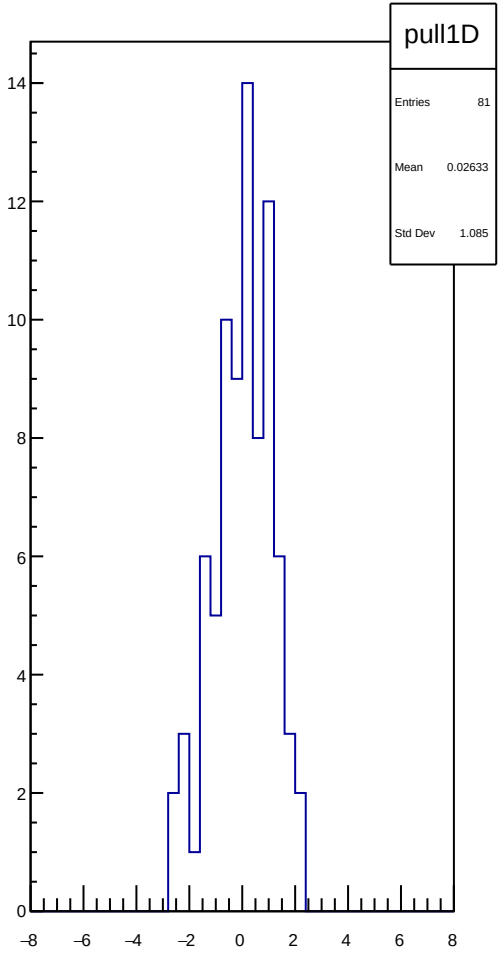

asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 4831 / 80
p0 4343 ± 3.494
5400
5200
5000
4800
4600
4400
4200
4000
3800

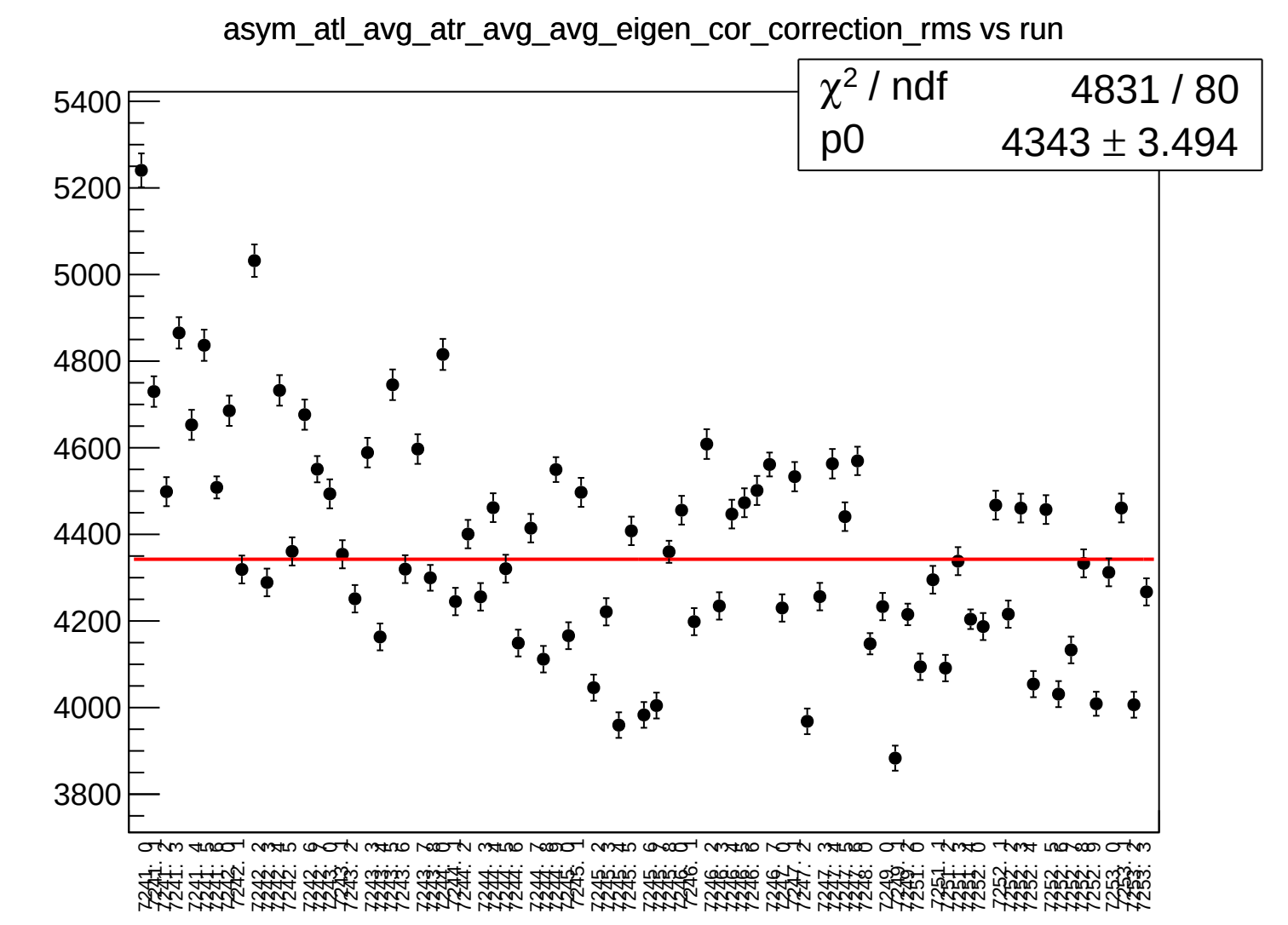

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 100 / 80
p0 2037 ± 1395
pull
Entries 81
Mean 10.28
Std Dev 0

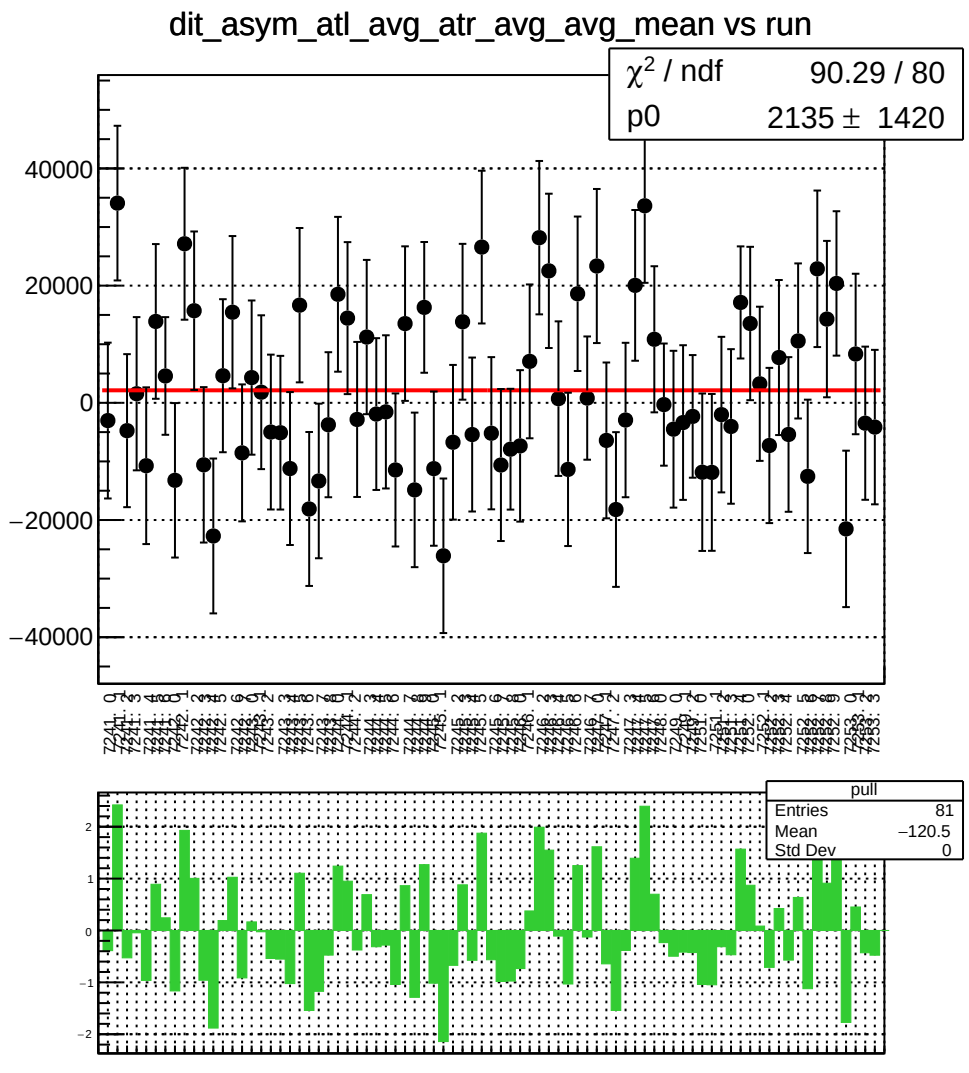

pull1D
Entries 81
Mean −0.003474
Std Dev 1.111

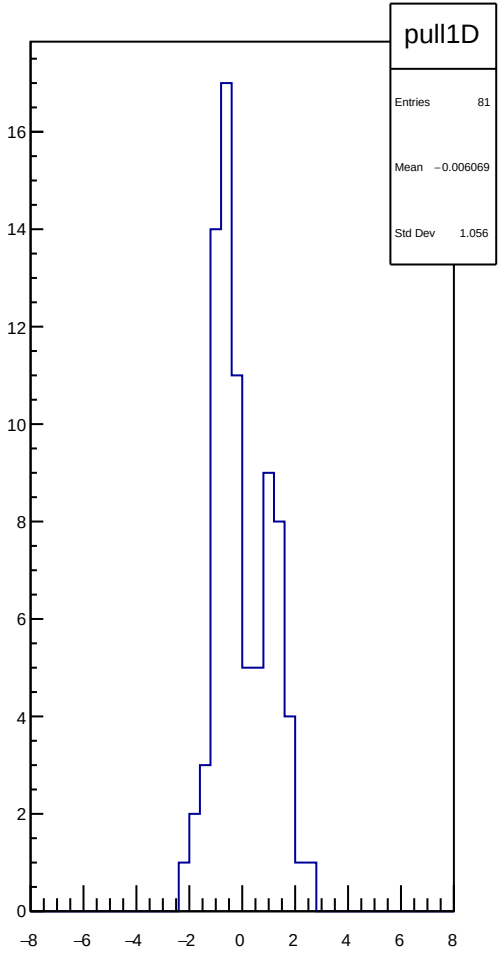

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 96.65 / 80
p0 1228 ± 0.9867
1270
1260
1250
1240
1230
1220
1210
1200
1190

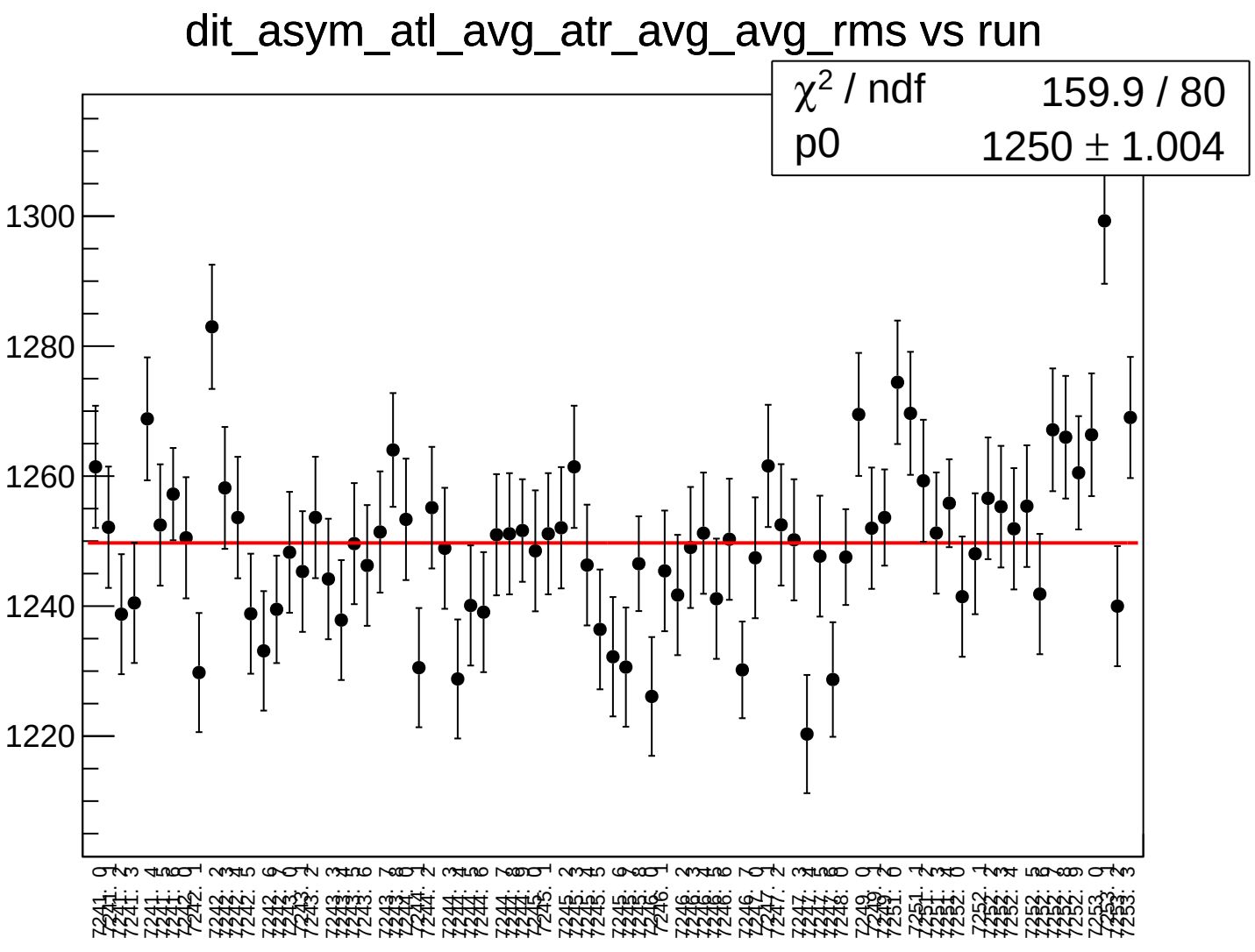

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 95.46 / 80
p0 −786.7 ± 4942
150
100
50
0
−50
−100
−150
−200
pull
Entries 81
Mean −97.55
Std Dev 0
2
1
0
−1
−2

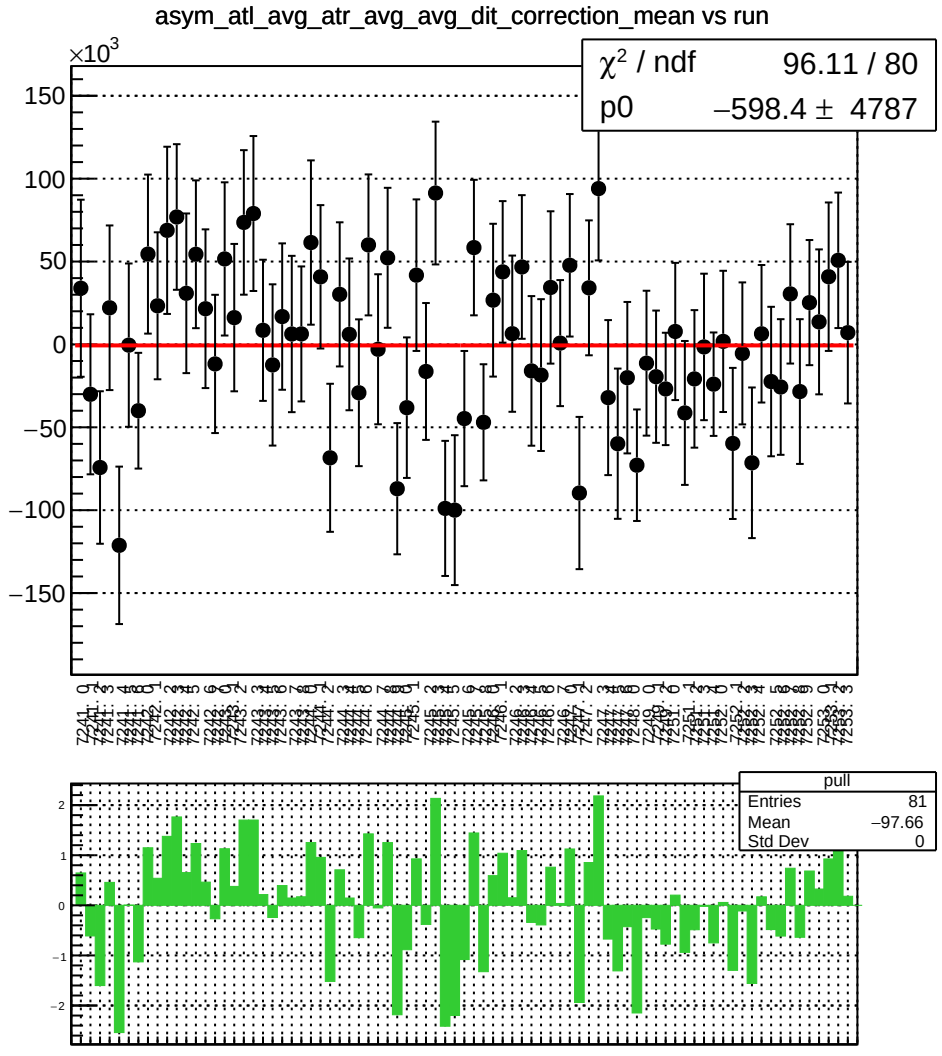

pull1D
Entries 81
Mean 0.02633
Std Dev 1.085
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

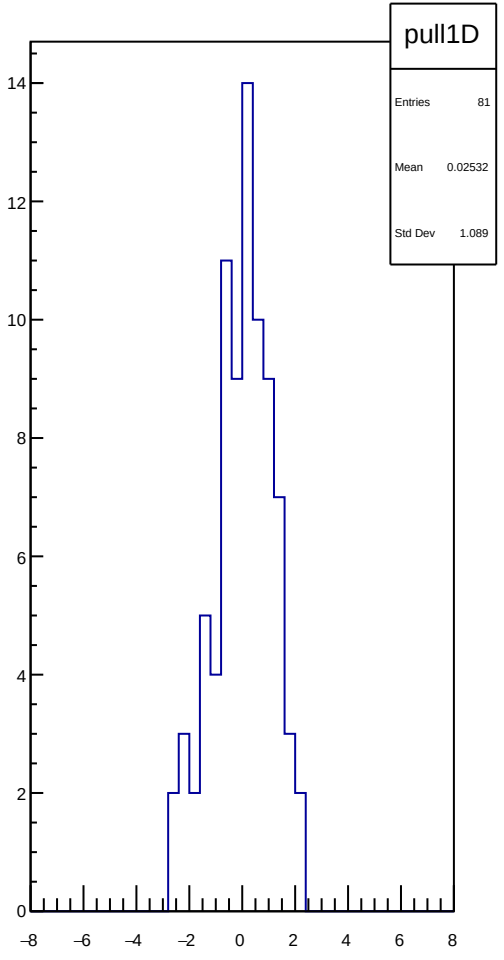

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 4831 / 80
p0 4343 ± 3.494
5400
5200
5000
4800
4600
4400
4200
4000
3800

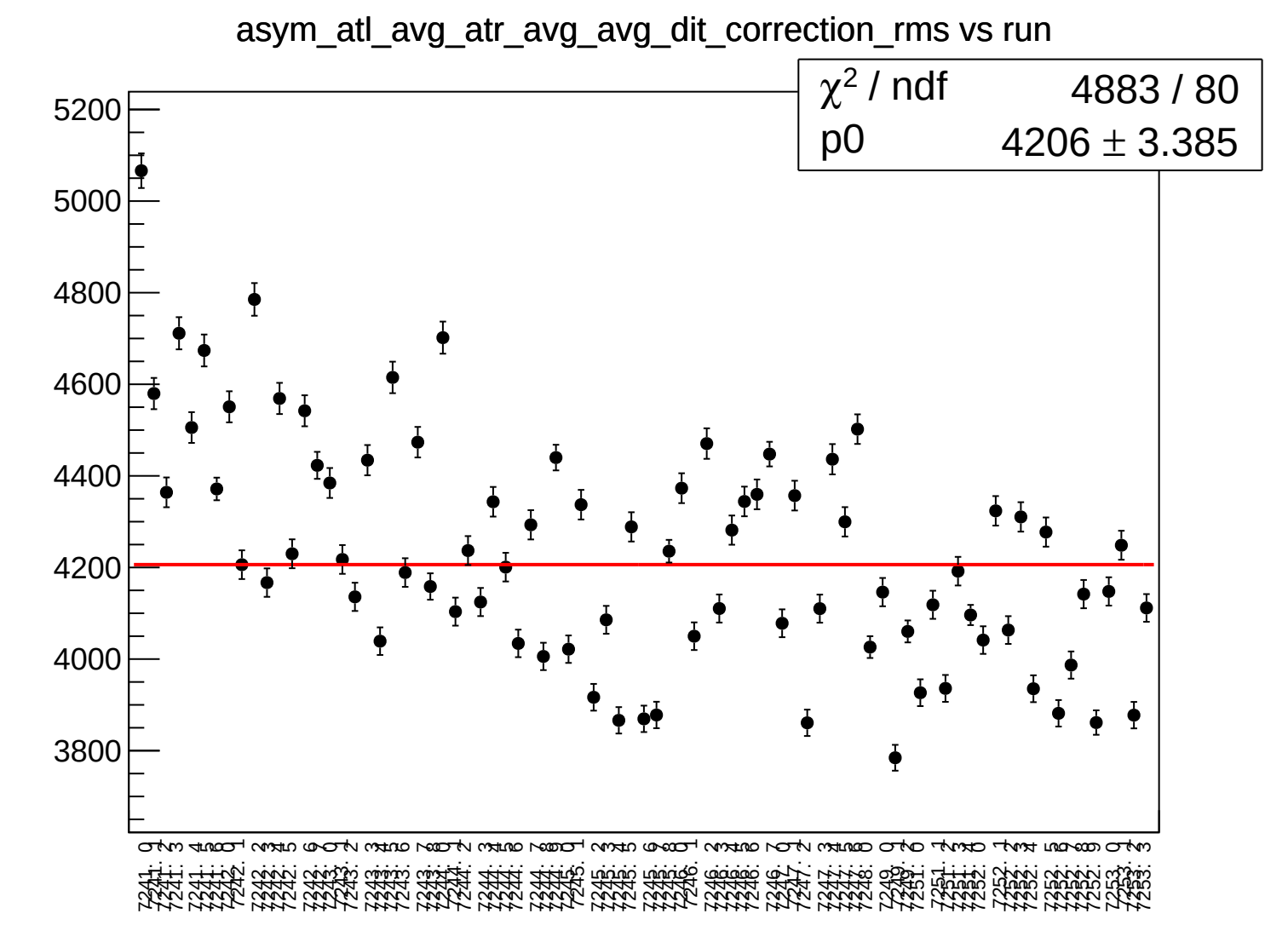

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 90.29 / 80
p0 2135 ± 1420
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −120.5
Std Dev 0
2
1
0
−1
−2

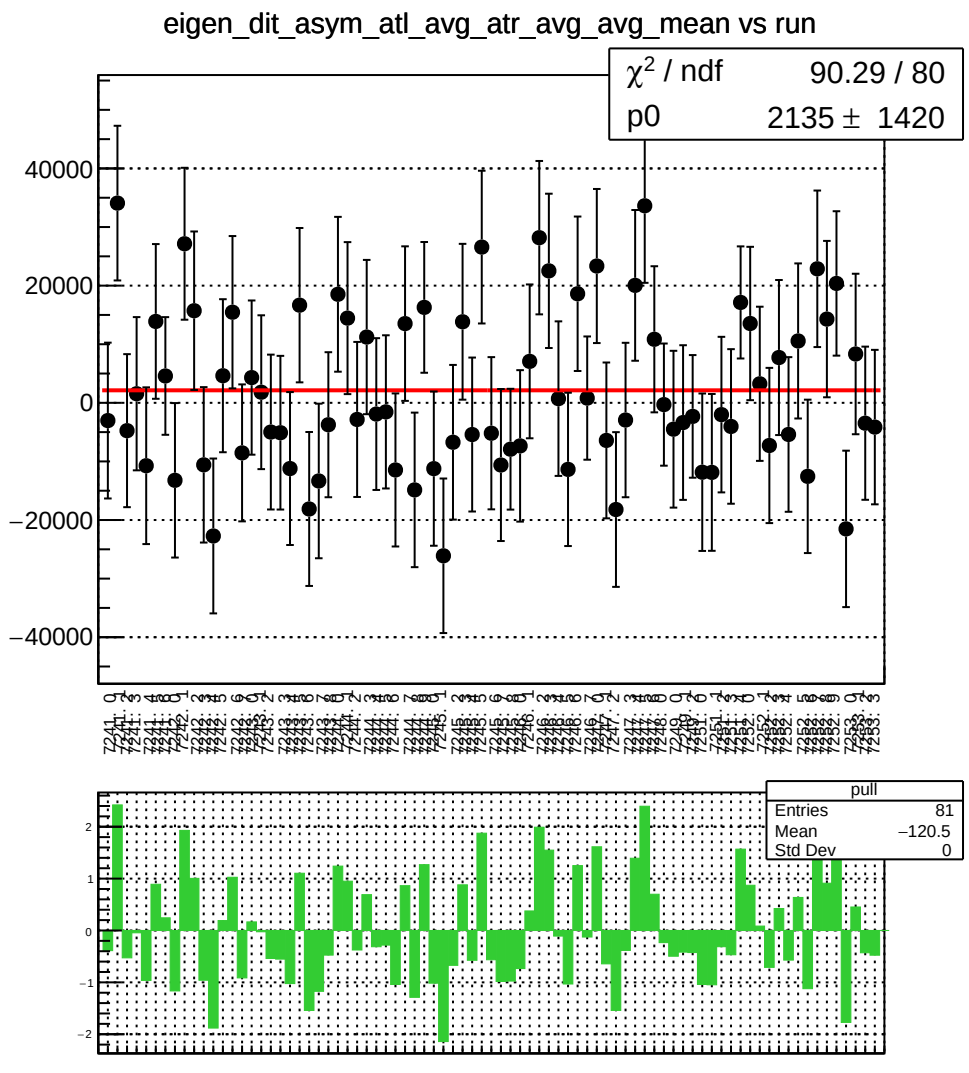

pull1D
Entries 81
Mean −0.006069
Std Dev 1.056
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

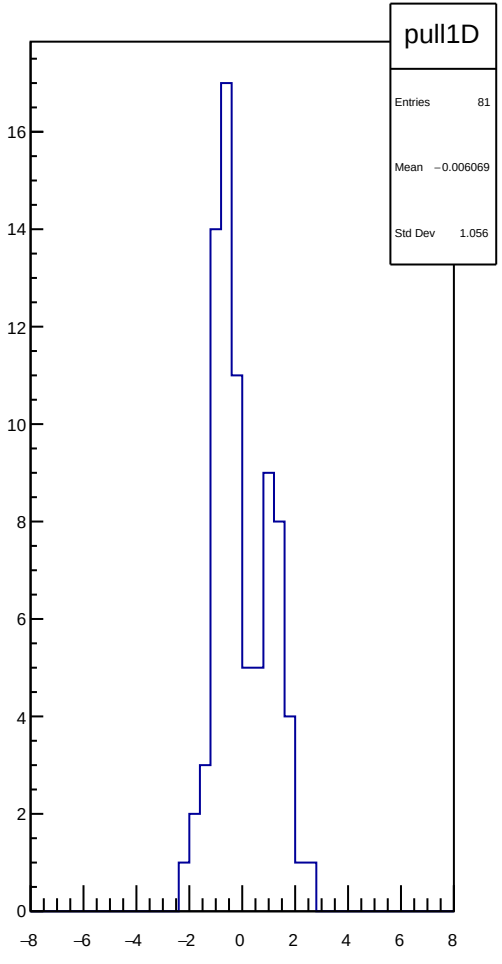

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 159.9 / 80
p0 1250 ± 1.004
1300
1280
1260
1240
1220

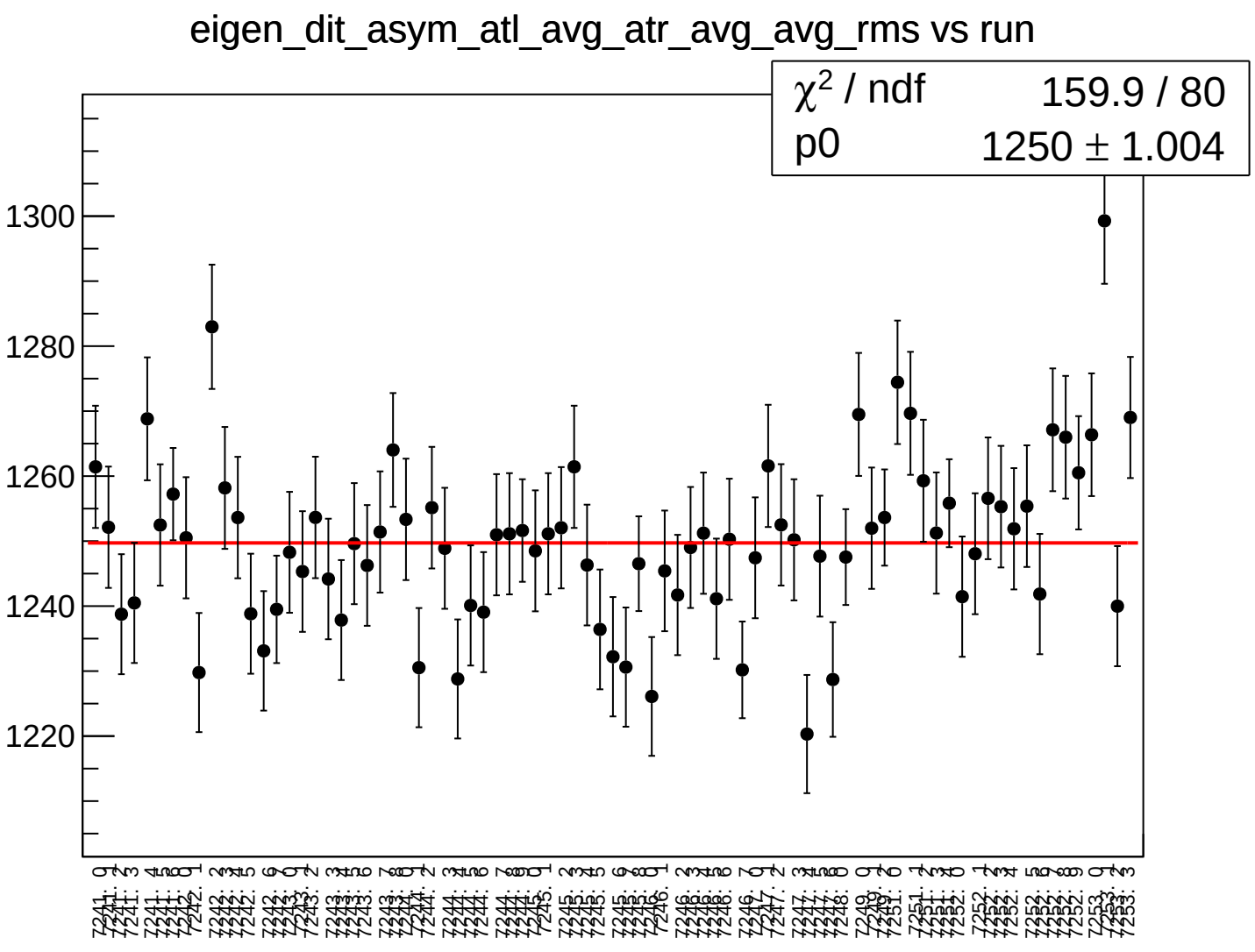

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 96.11 / 80
p0 −598.4 ± 4787
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean −97.66
Std Dev 0
2
1
0
−1
−2

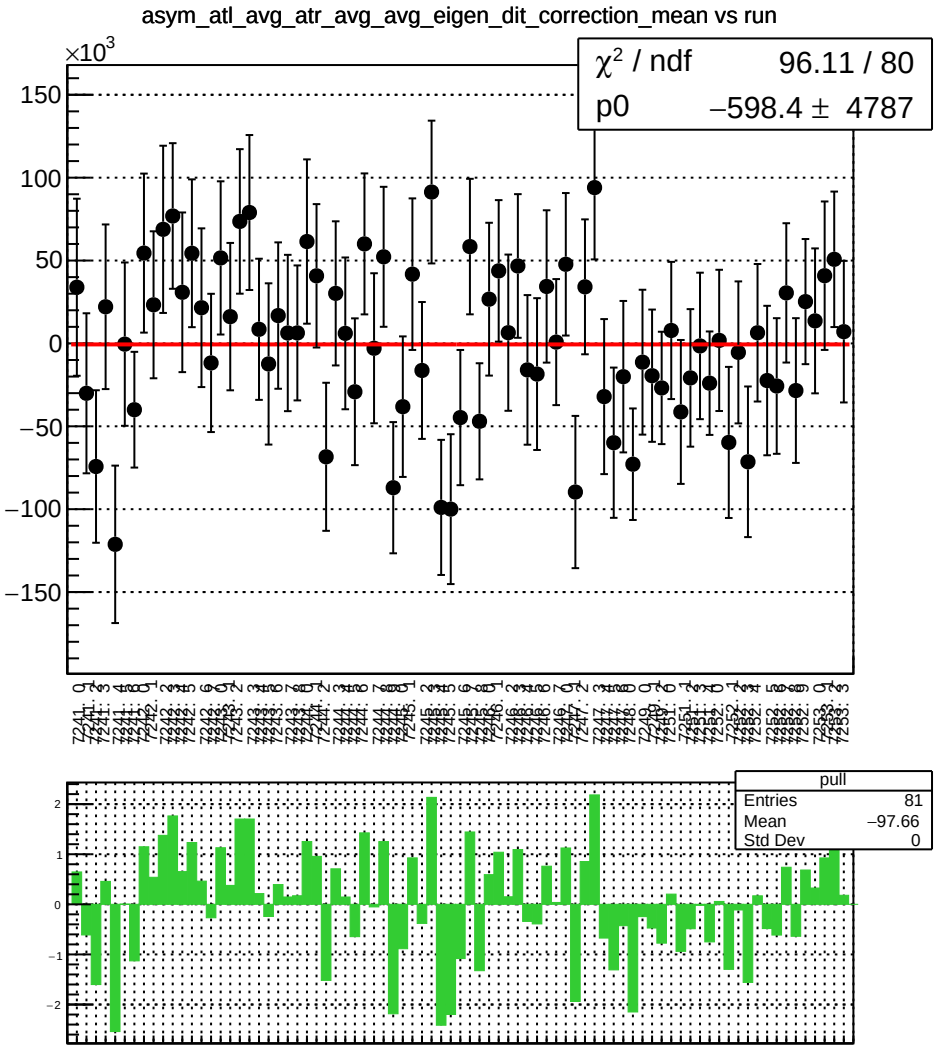

pull1D
Entries 81
Mean 0.02532
Std Dev 1.089
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

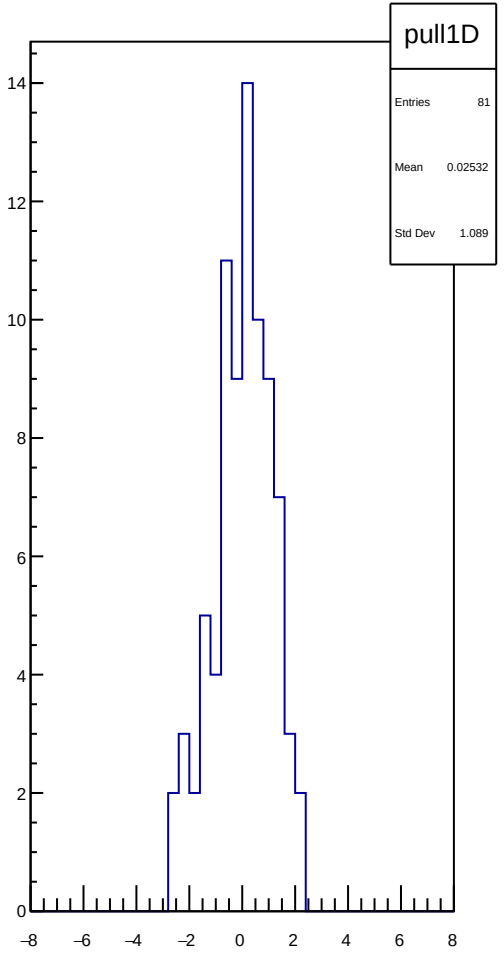

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 4883 / 80
p0 4206 ± 3.385
5200
5000
4800
4600
4400
4200
4000
3800

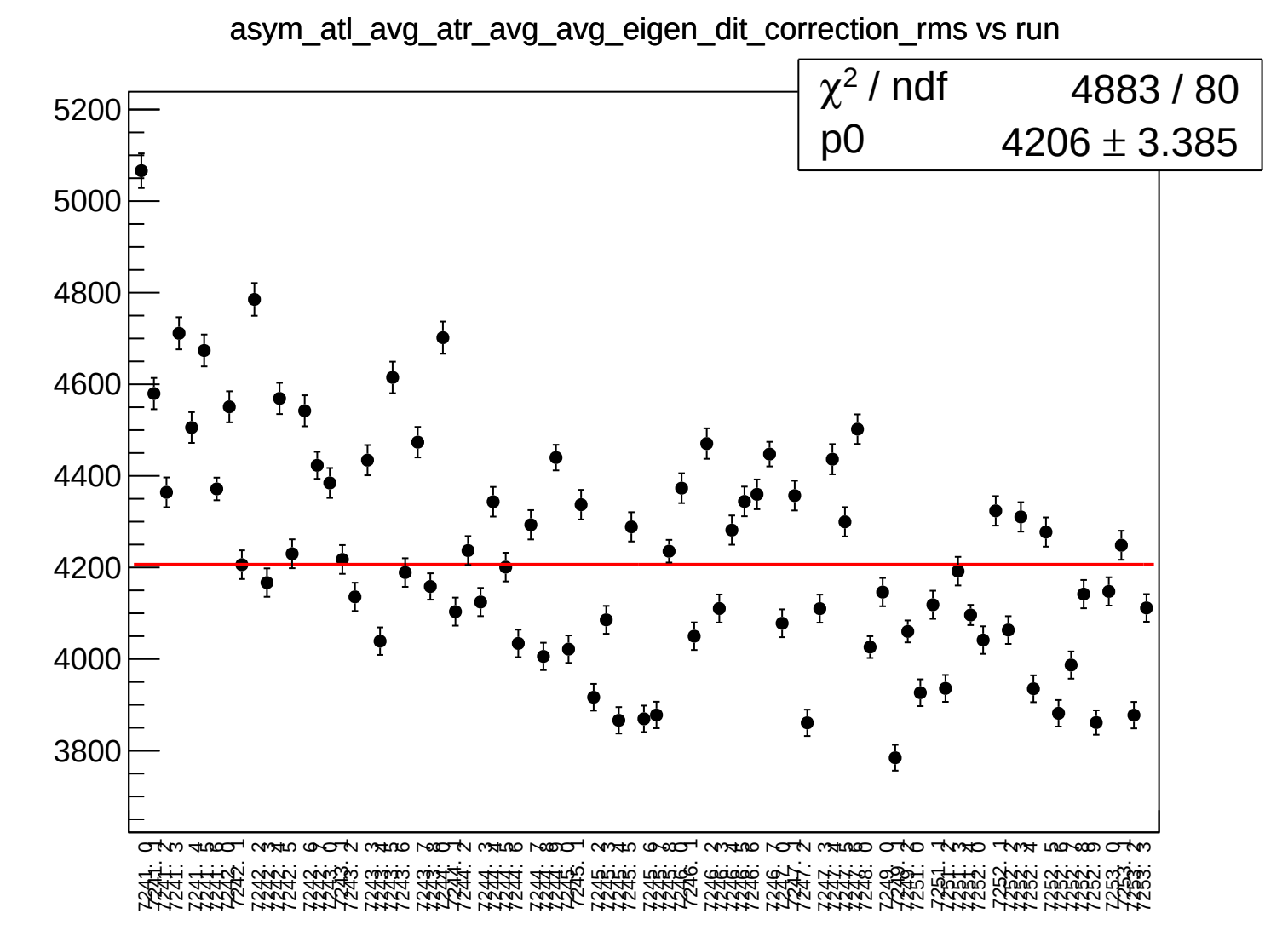

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 90.29 / 80
p0 2135 ± 1420
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −120.5
Std Dev 0
2
1
0
−1
−2

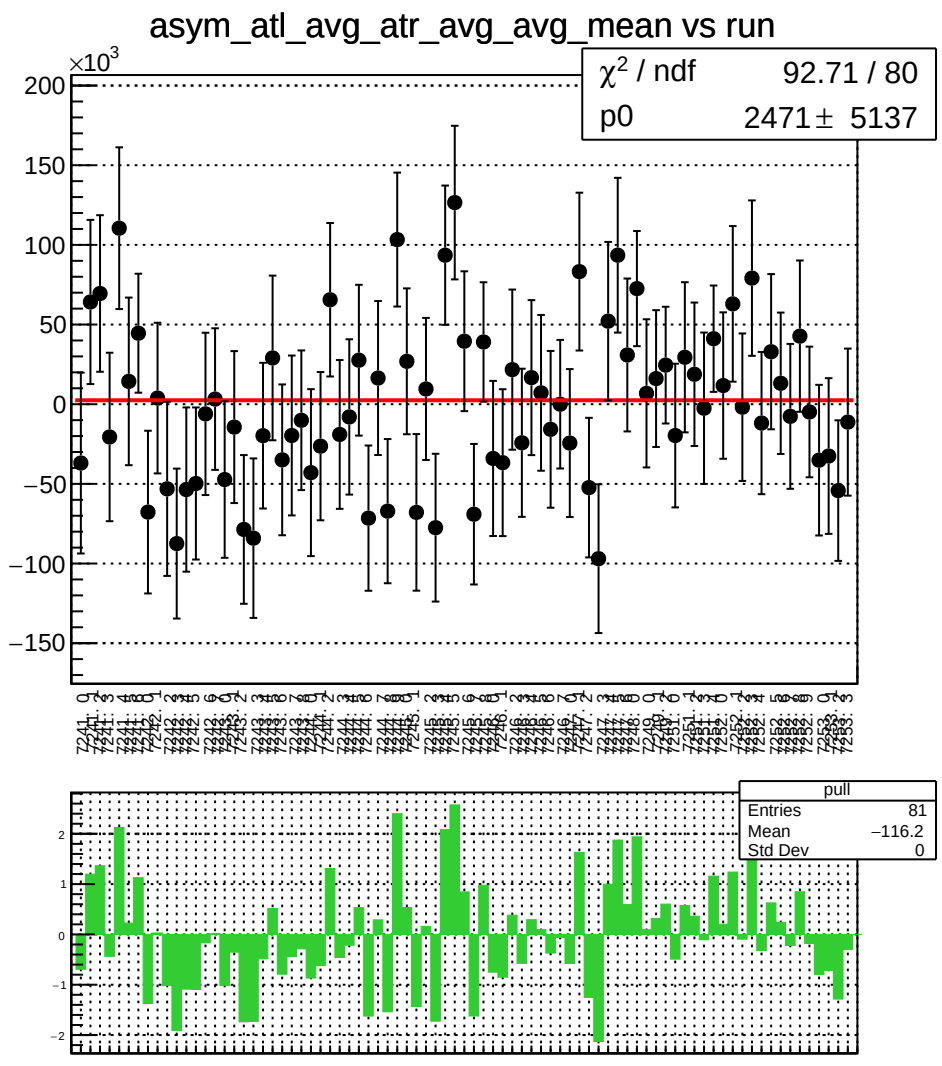

pull1D
Entries 81
Mean −0.006069
Std Dev 1.056
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

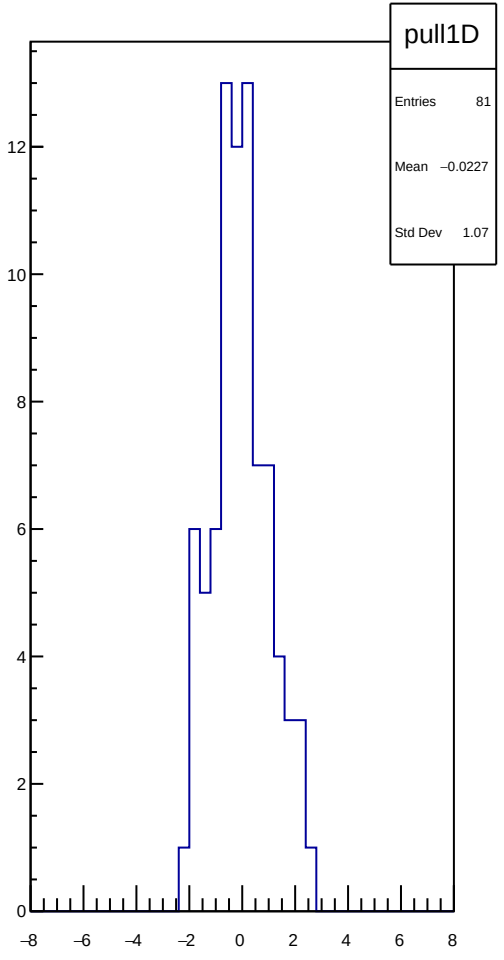

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 159.9 / 80
p0 1250 ± 1.004
1300
1280
1260
1240
1220

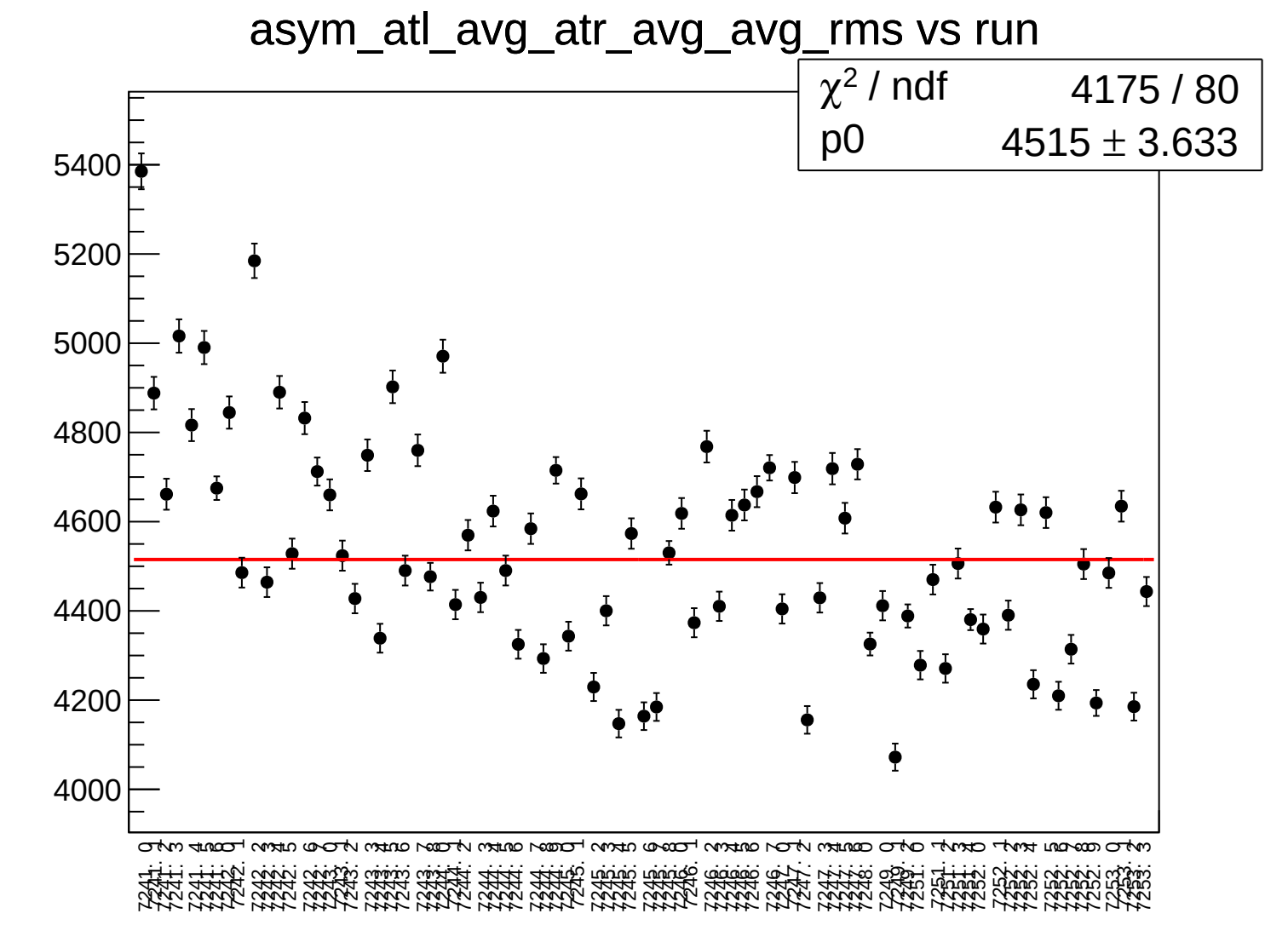

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.11 / 80
p0 −598.4 ± 4787
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean −97.66
Std Dev 0
2
1
0
−1
−2

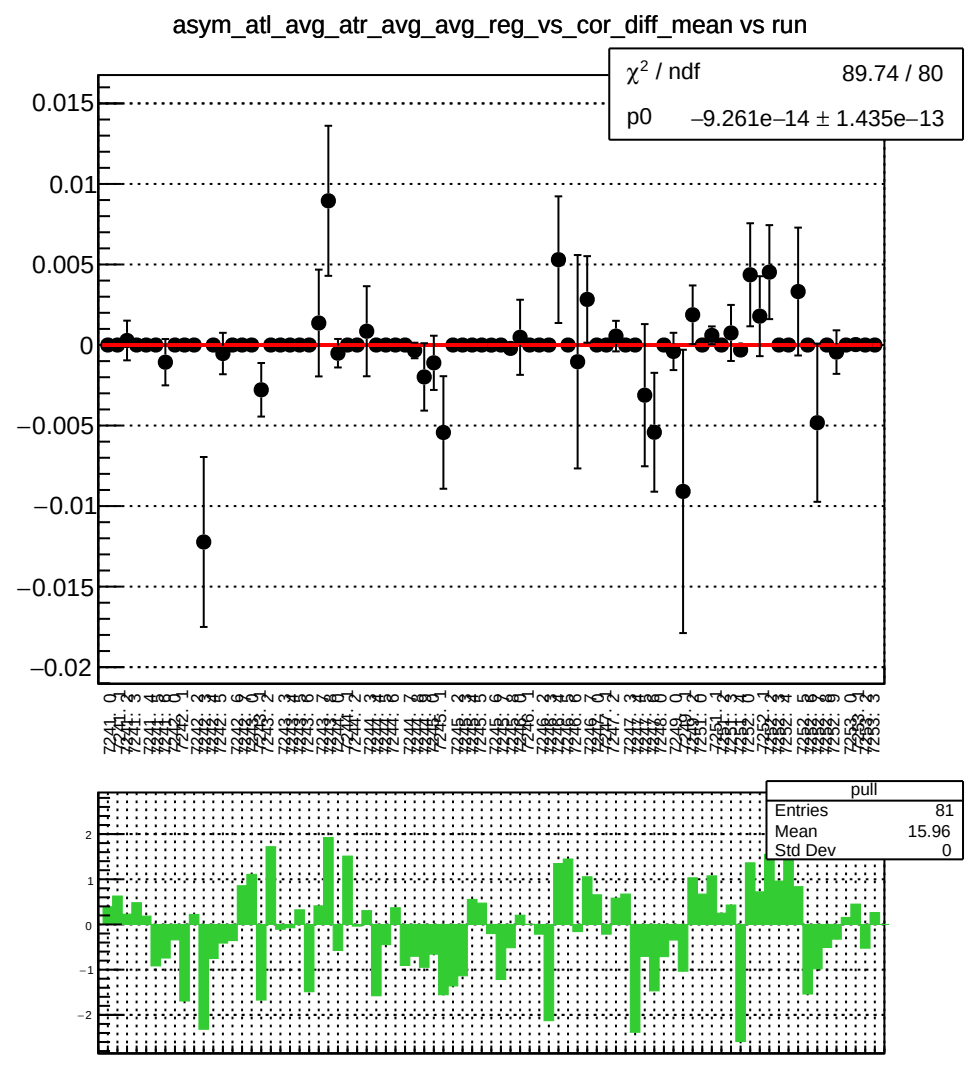

pull1D
Entries 81
Mean 0.02532
Std Dev 1.089
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

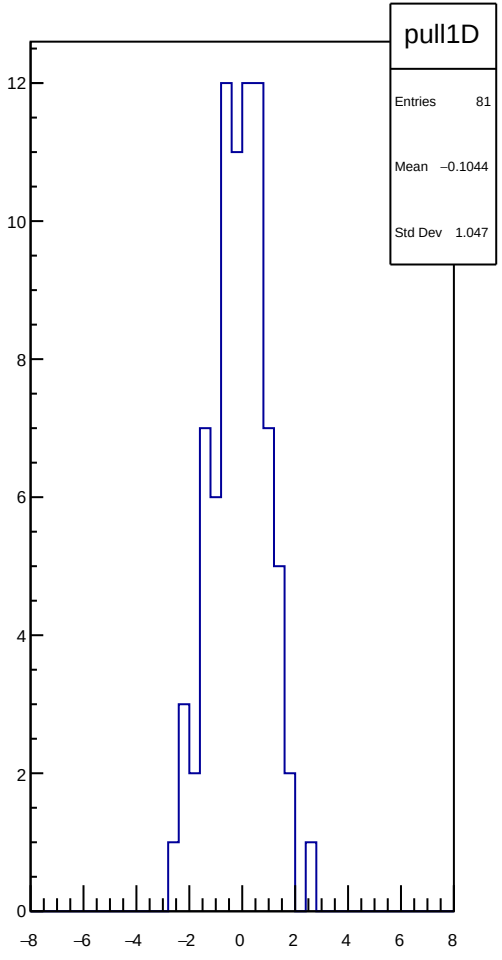

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 4883 / 80
p0 4206 ± 3.385
5200
5000
4800
4600
4400
4200
4000
3800

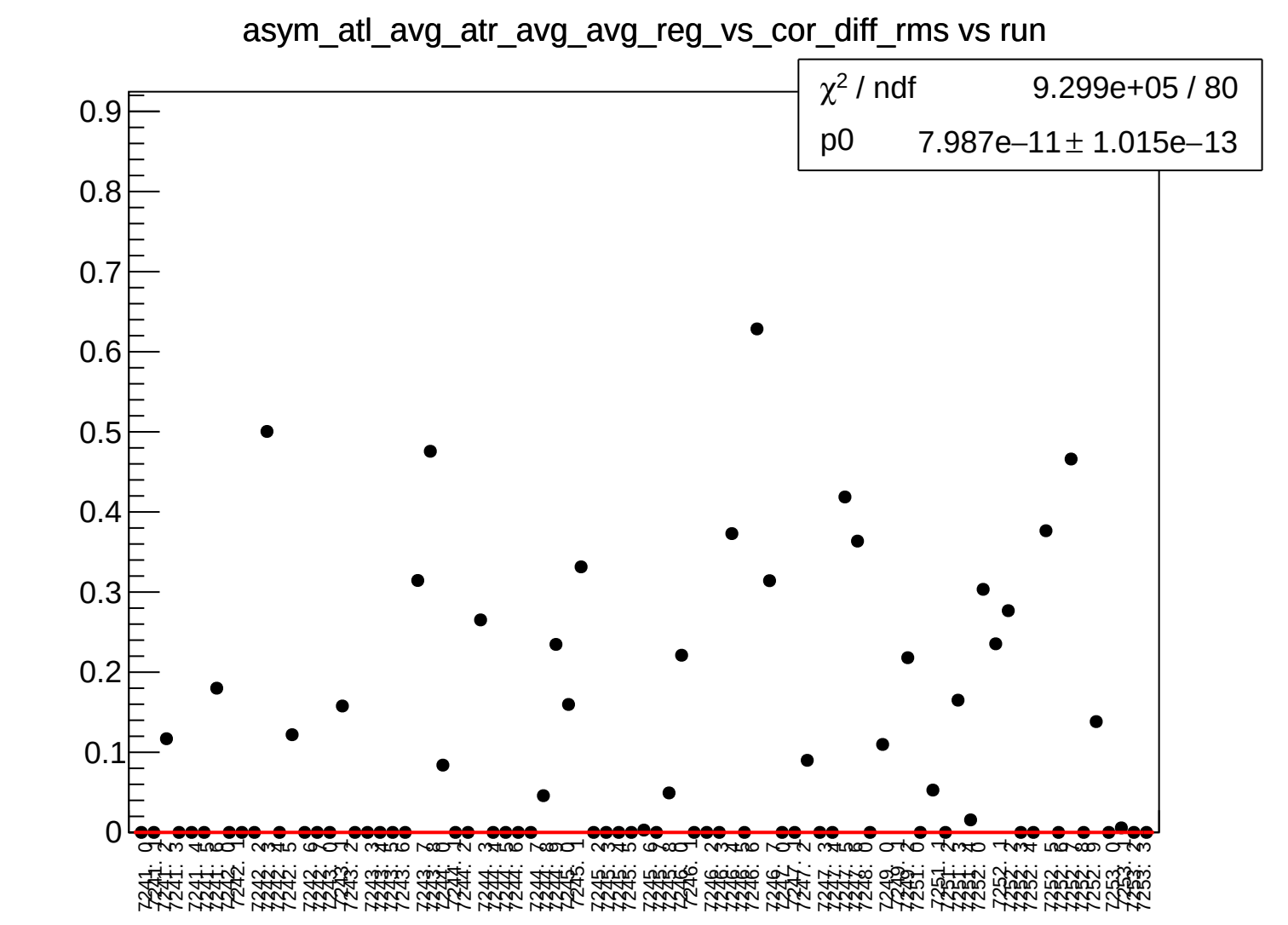

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 92.71 / 80
p0 2471 ± 5137
pull
Entries 81
Mean −116.2
Std Dev 0

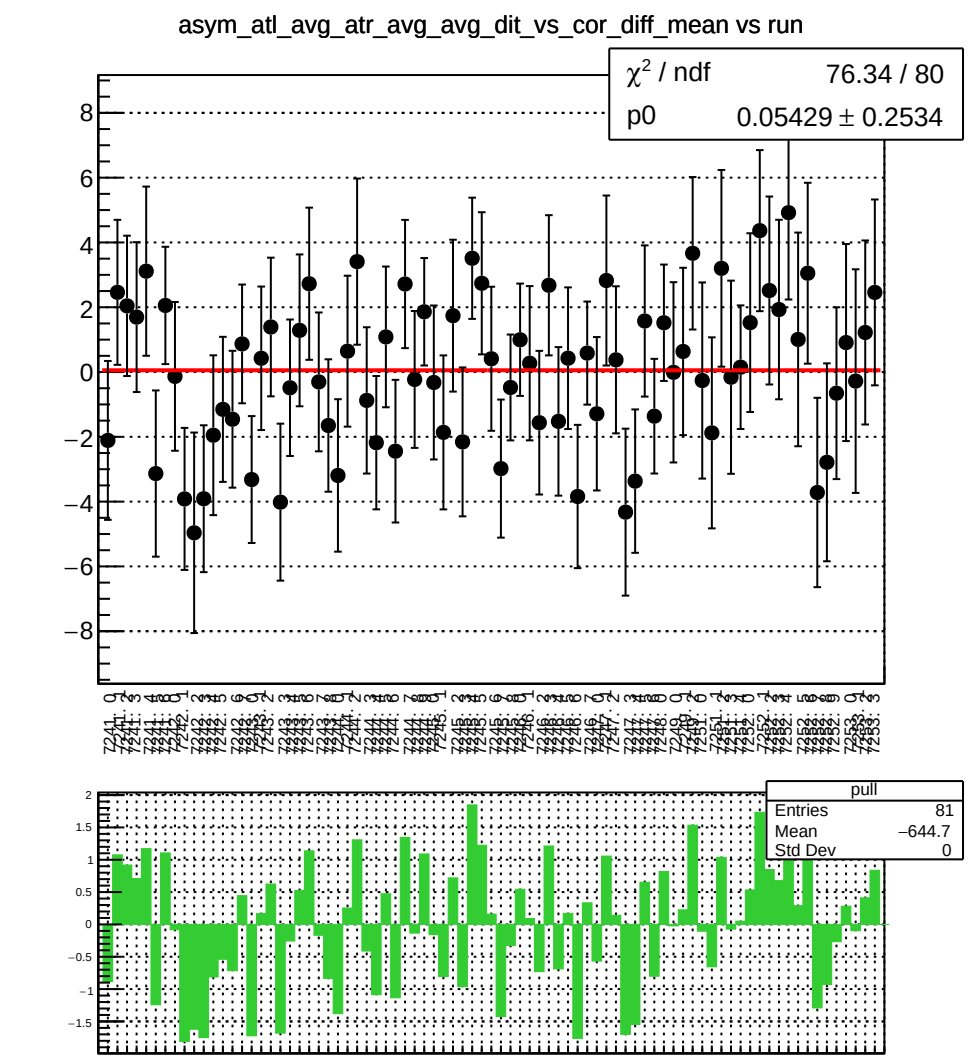

pull1D
Entries 81
Mean −0.0227
Std Dev 1.07

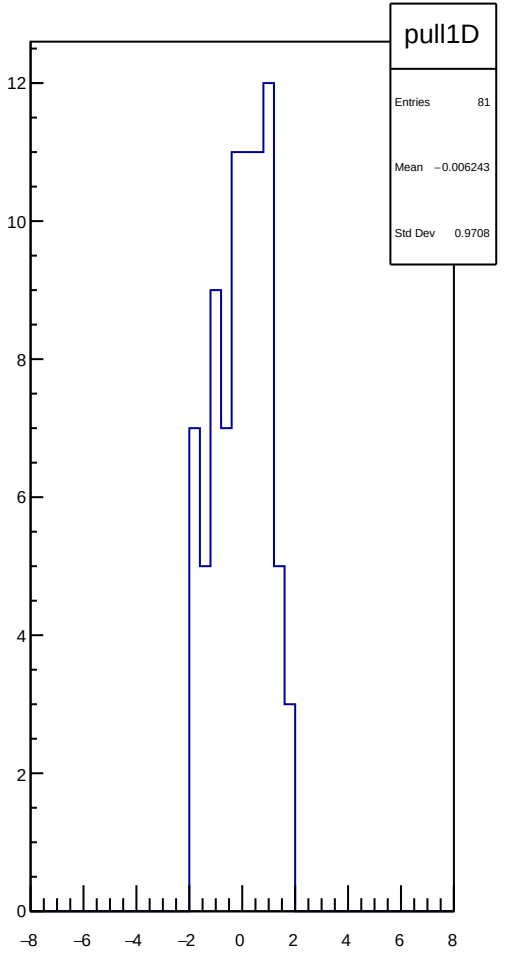

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 4175 / 80
p0 4515 ± 3.633
5400
5200
5000
4800
4600
4400
4200
4000

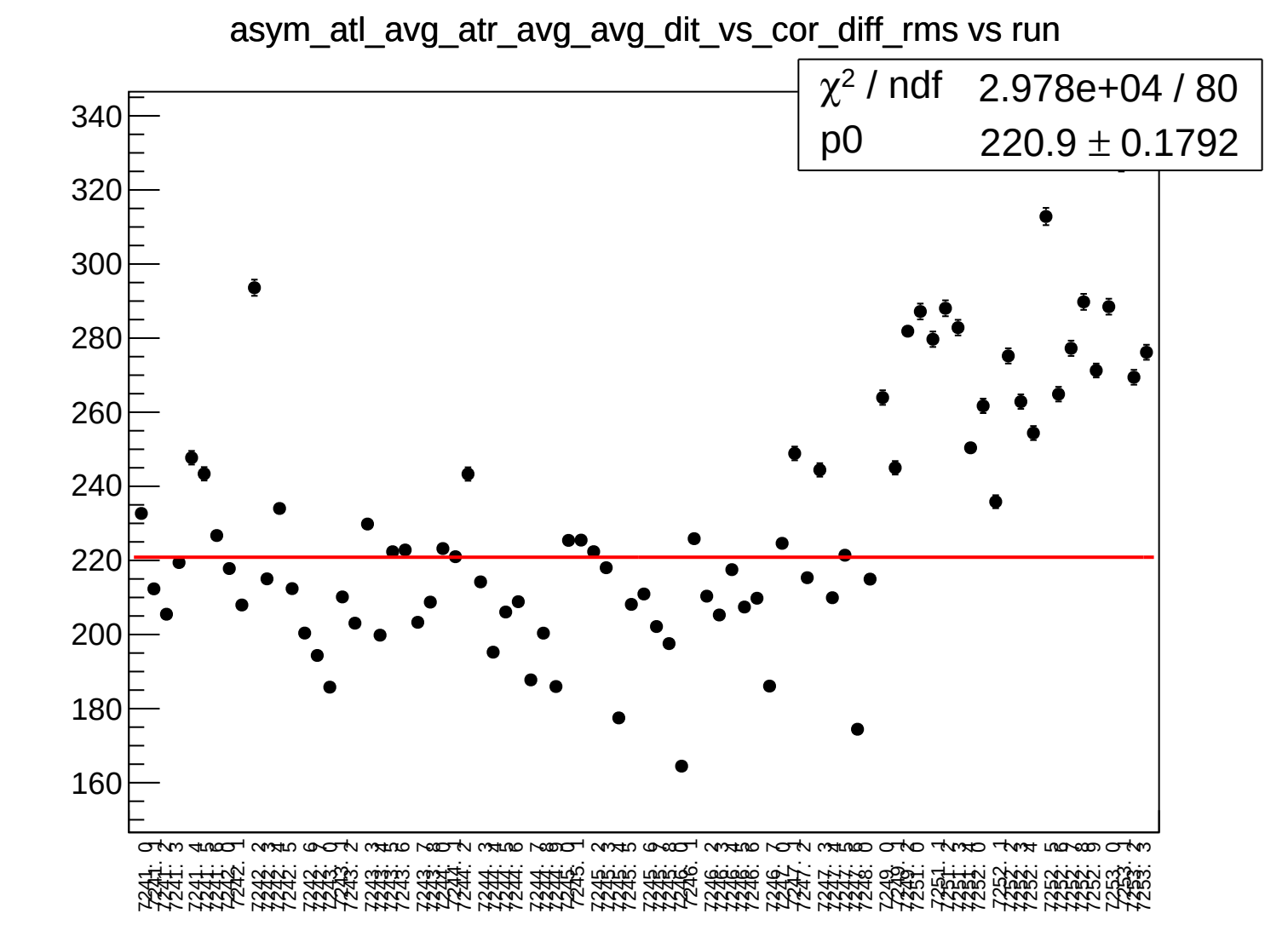

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 89.74 / 80
p0 −9.261e−14 ± 1.435e−13
pull
Entries 81
Mean 15.96
Std Dev 0

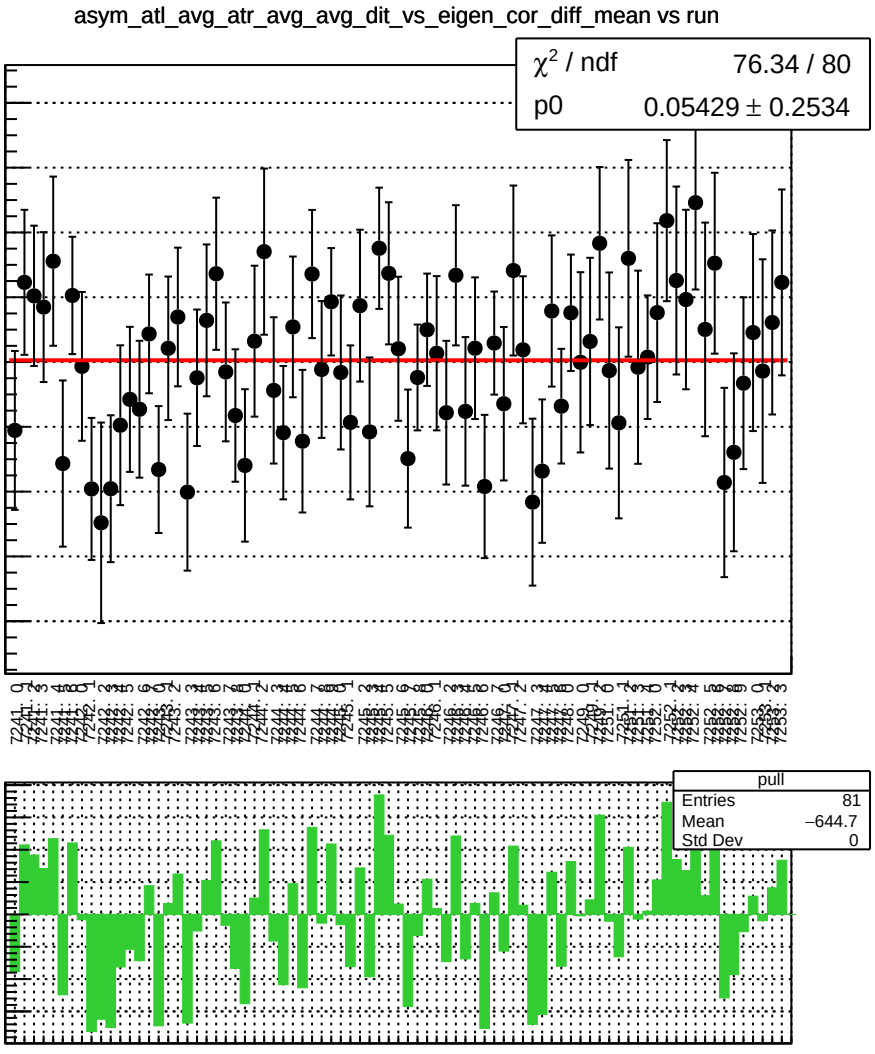

pull1D
Entries 81
Mean −0.1044
Std Dev 1.047

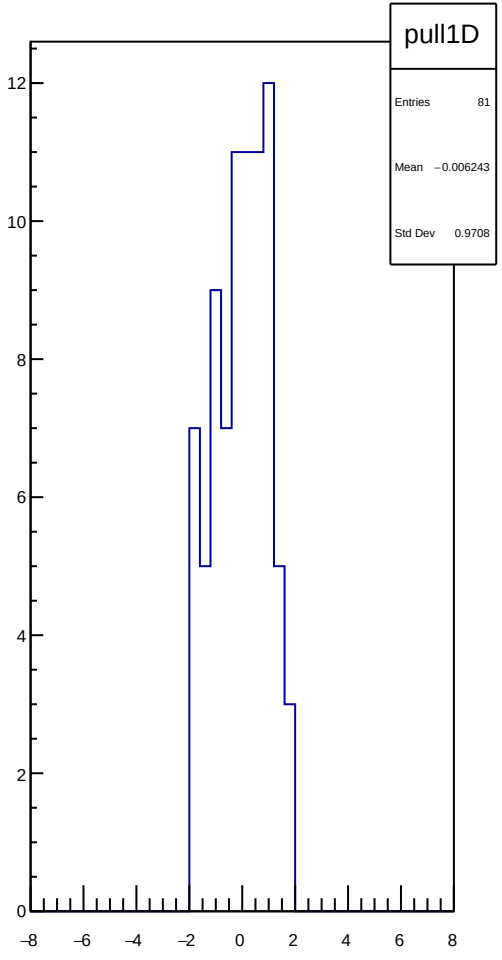

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.299e+05 / 80
p0 7.987e−11 ± 1.015e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

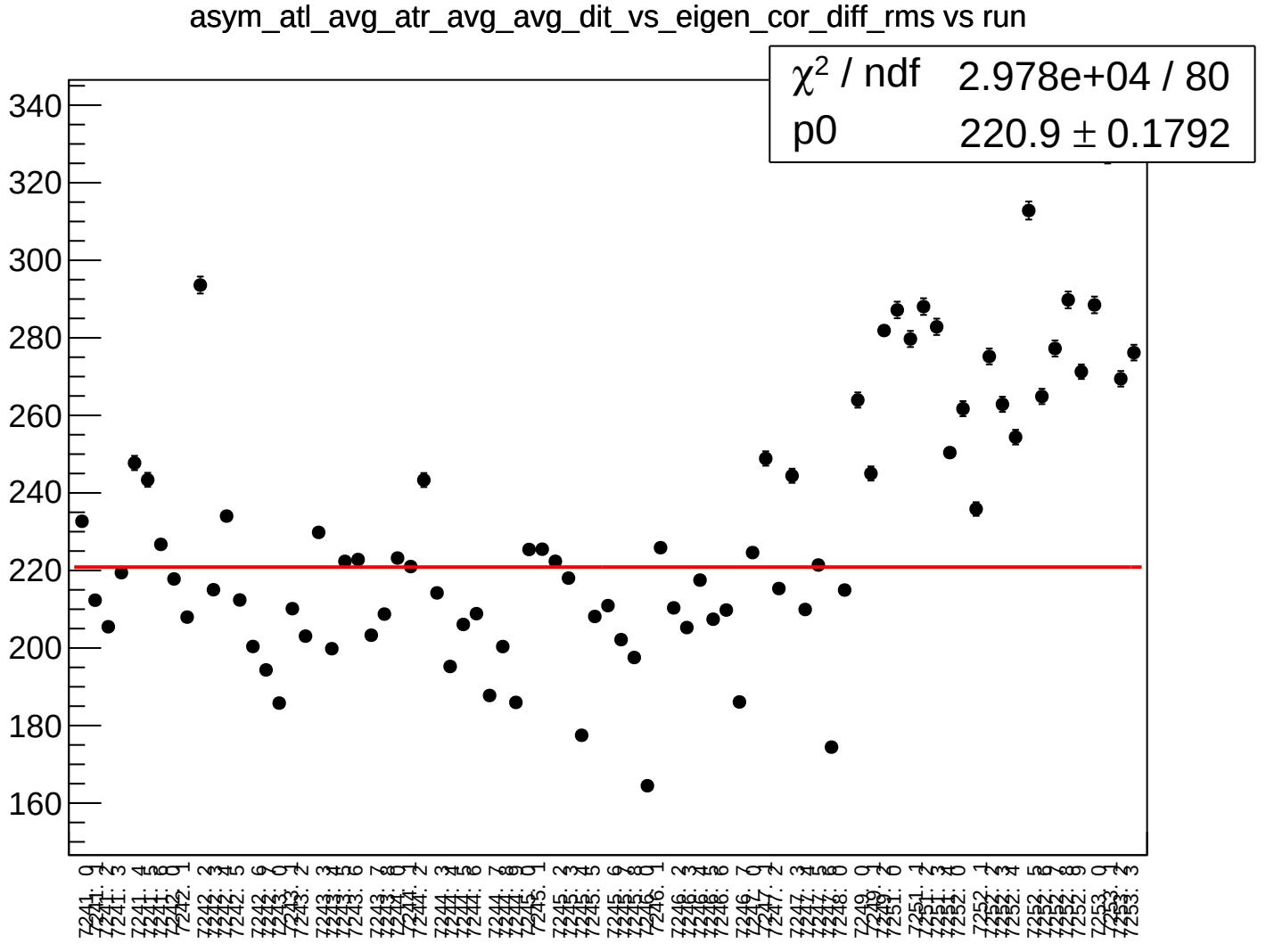

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 76.34 / 80
p0 0.05429 ± 0.2534
pull
Entries 81
Mean −644.7
Std Dev 0

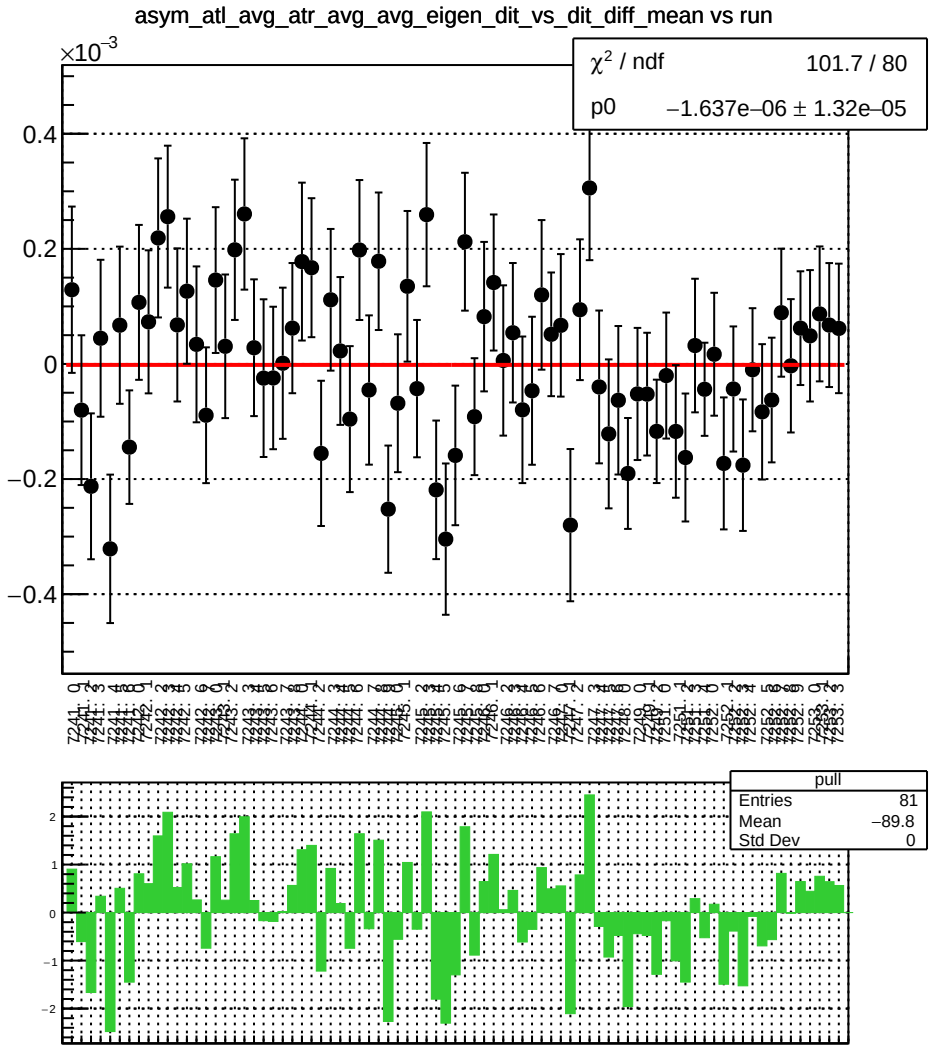

pull1D
Entries 81
Mean −0.006243
Std Dev 0.9708

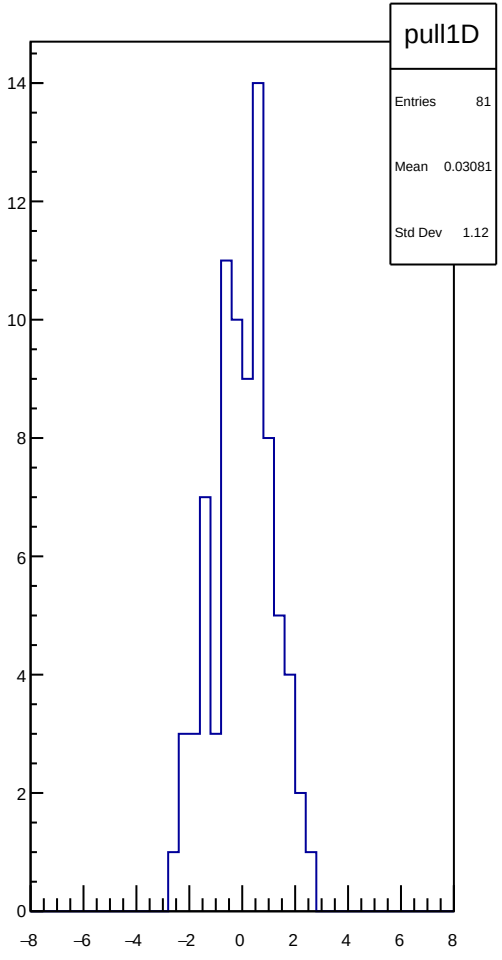

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.978e+04 / 80
p0 220.9 ± 0.1792
340
320
300
280
260
240
220
200
180
160

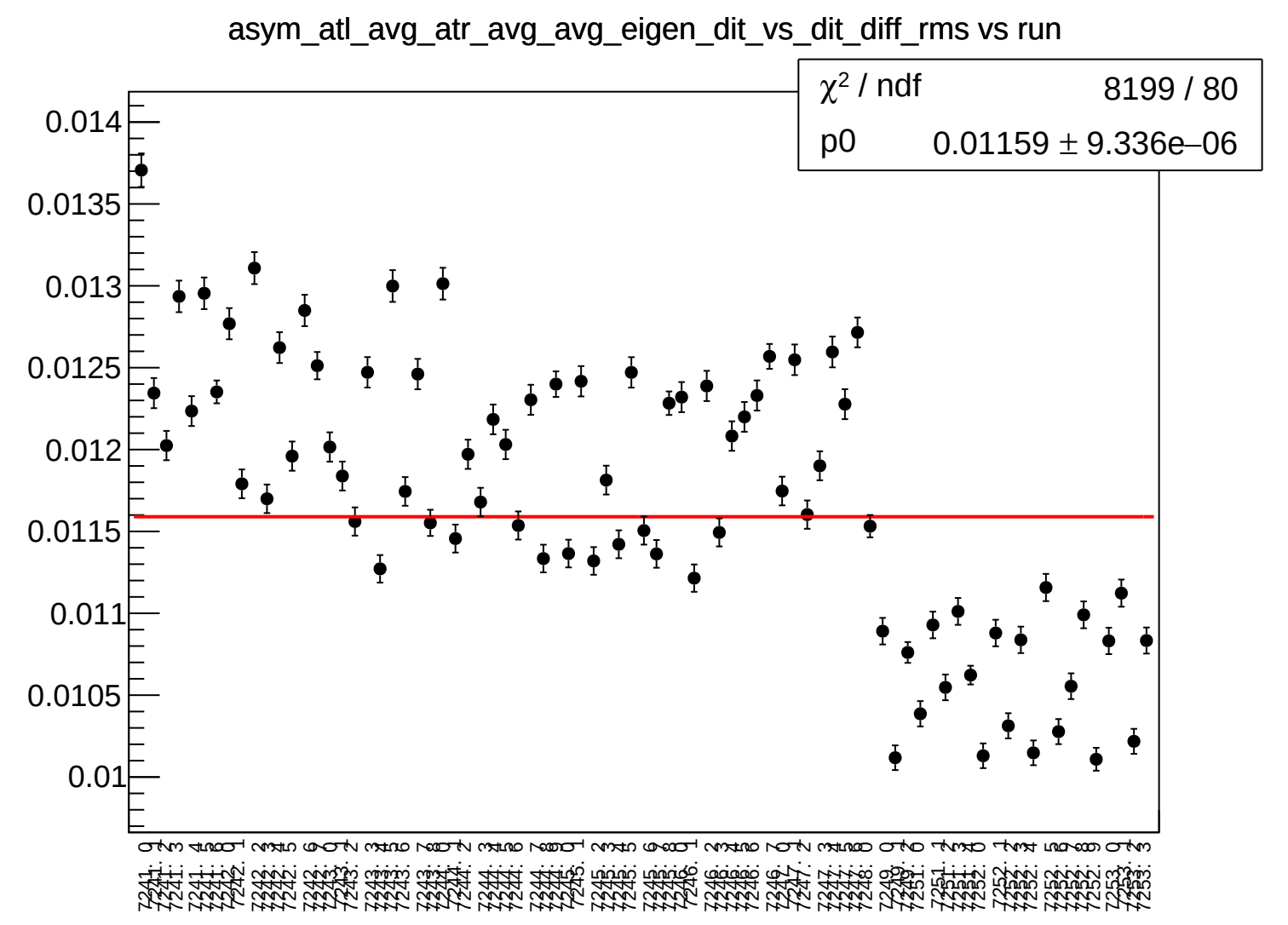

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.34 / 80
p0 0.05429 ± 0.2534
pull
Entries 81
Mean −644.7
Std Dev 0

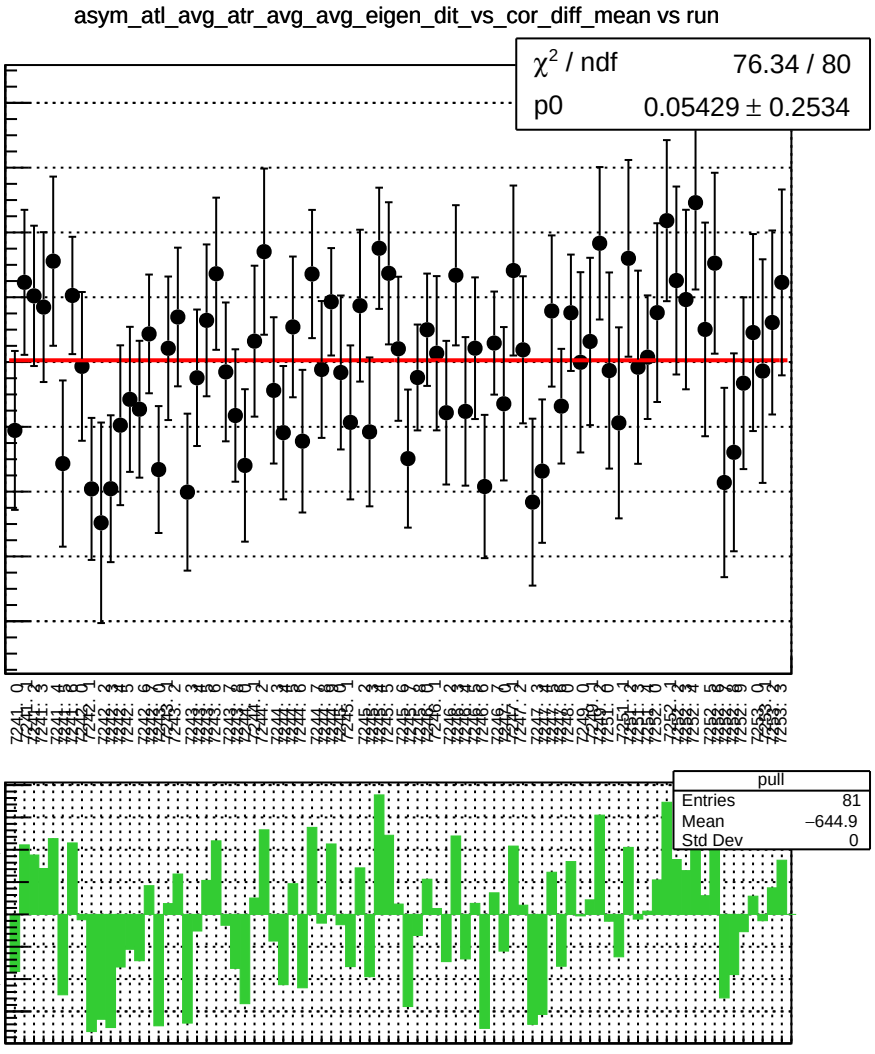

pull1D
Entries 81
Mean −0.006243
Std Dev 0.9708

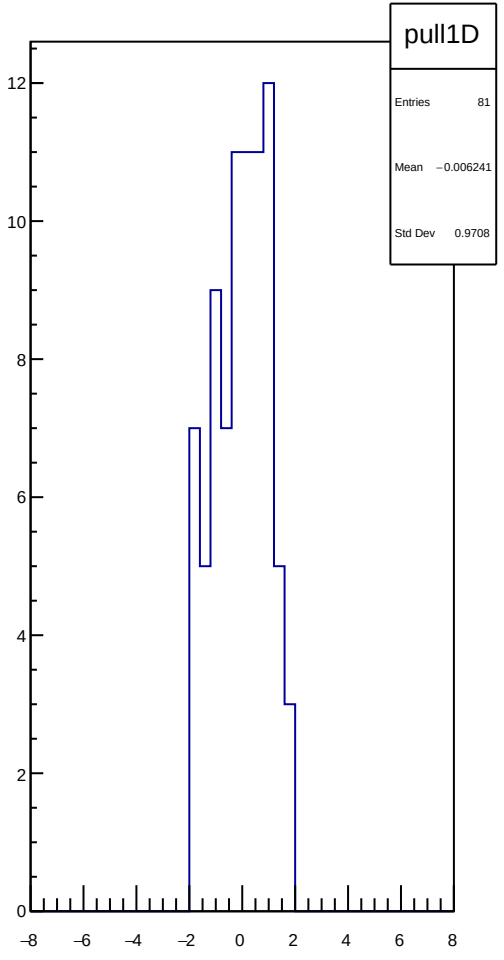

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.978e+04 / 80
p0 220.9 ± 0.1792
340
320
300
280
260
240
220
200
180
160

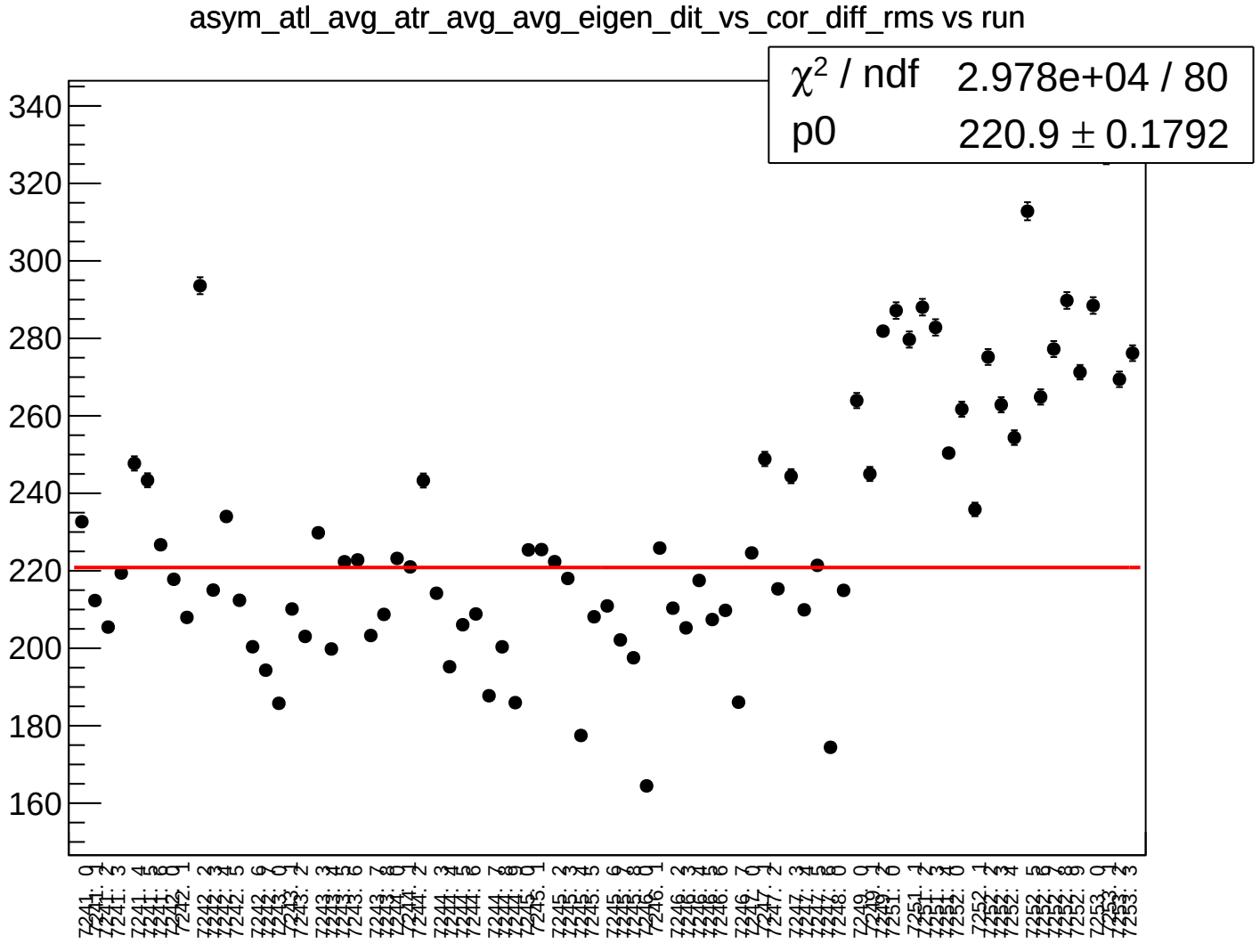

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.7 / 80
p0 −1.637e−06 ± 1.32e−05
pull
Entries 81
Mean −89.8
Std Dev 0

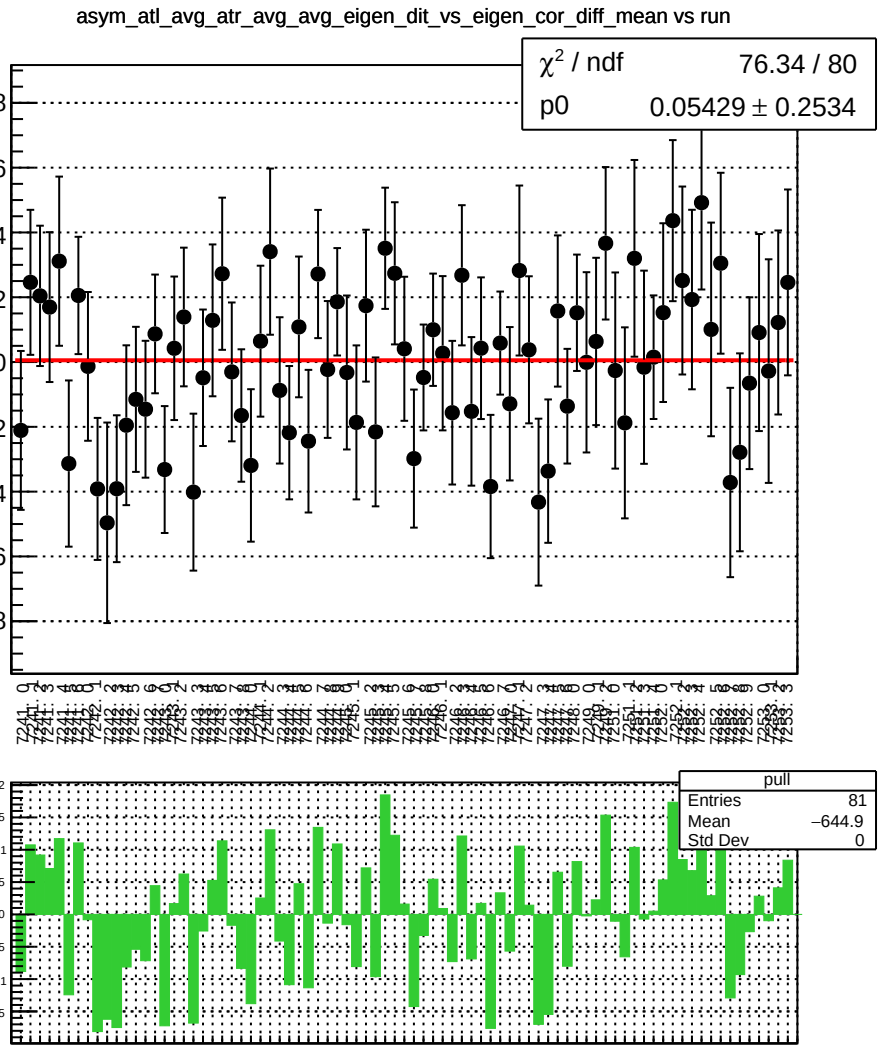

pull1D
Entries 81
Mean 0.03081
Std Dev 1.12

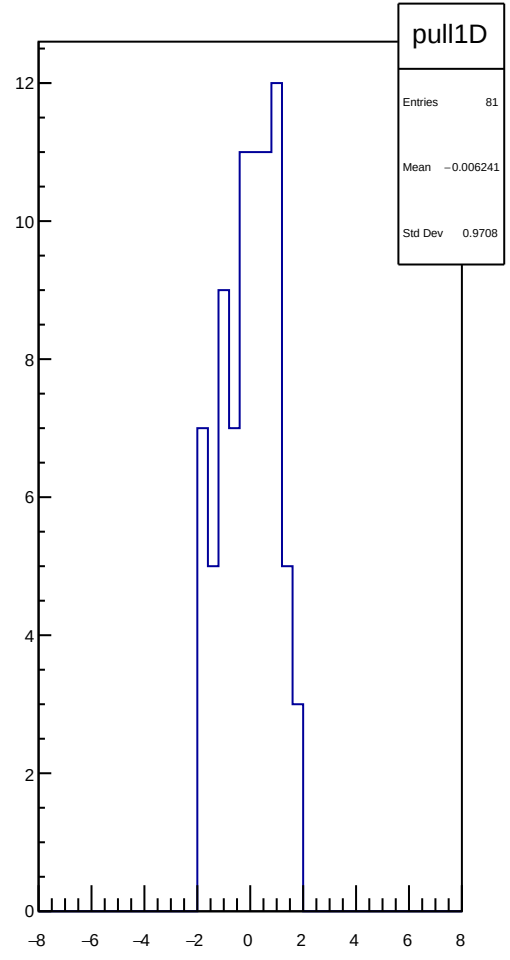

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8199 / 80
p0 0.01159 ± 9.336e−06
0.014
0.0135
0.013
0.0125
0.012
0.0115
0.011
0.0105
0.01

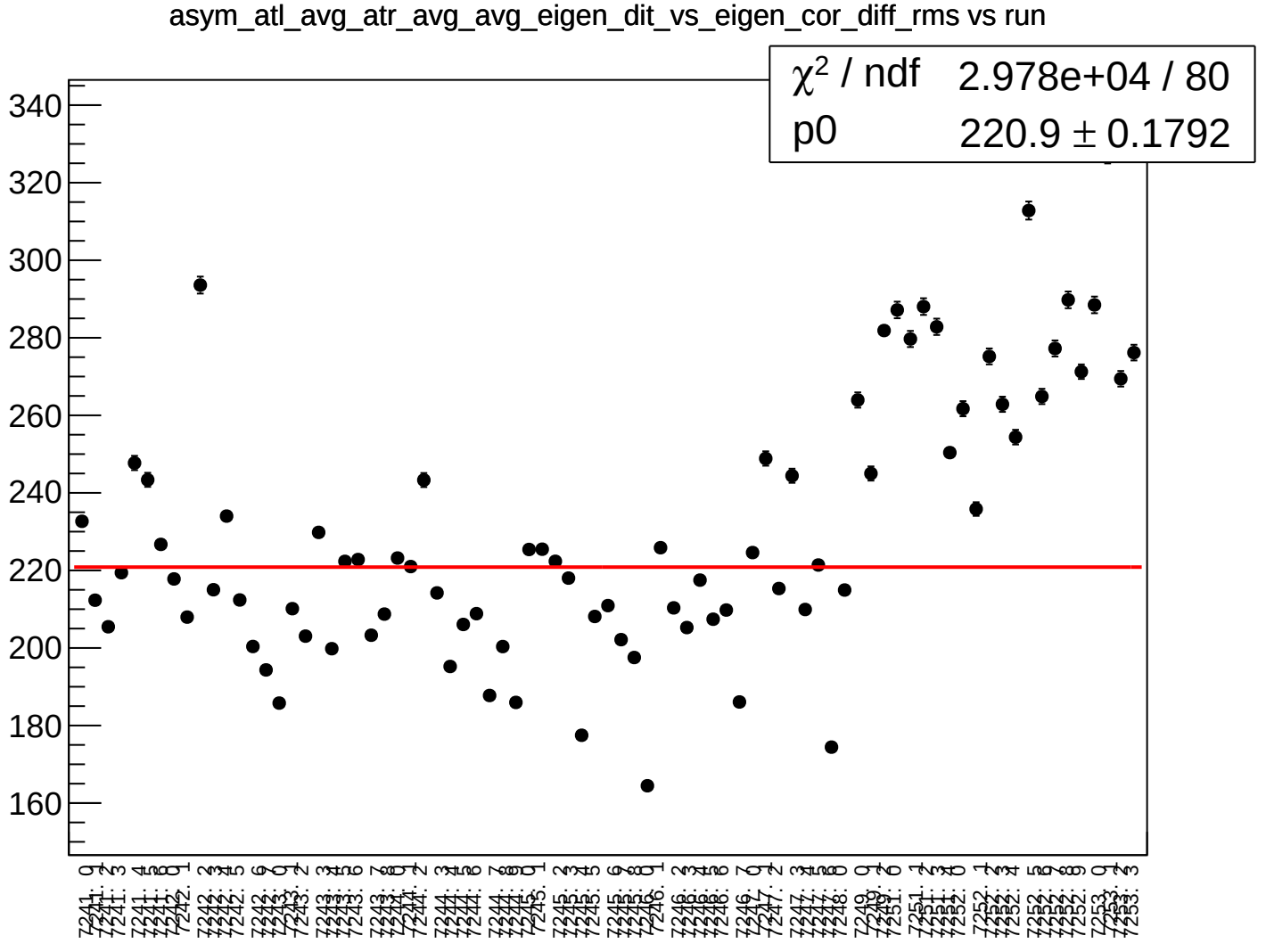

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.34 / 80
p0 0.05429 ± 0.2534
pull
Entries 81
Mean −644.9
Std Dev 0

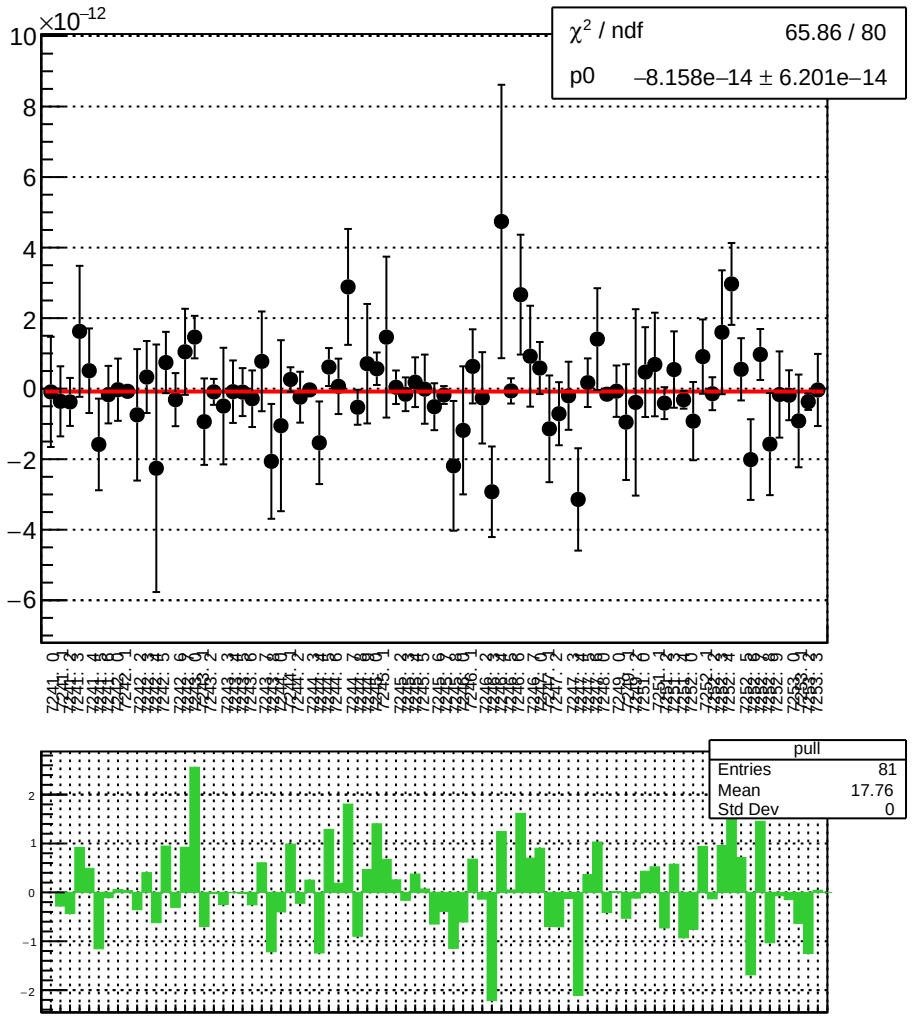

pull1D
Entries 81
Mean −0.006241
Std Dev 0.9708

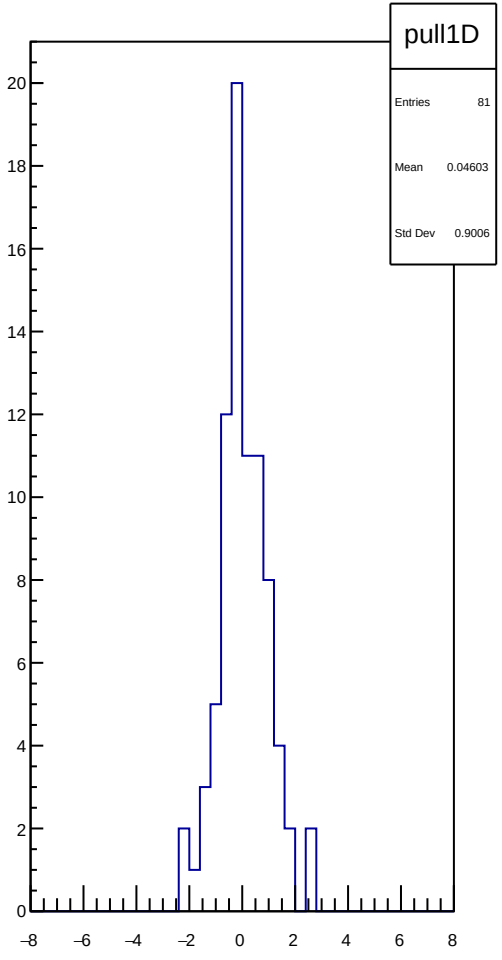

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.978e+04 / 80
p0 220.9 ± 0.1792
340
320
300
280
260
240
220
200
180
160

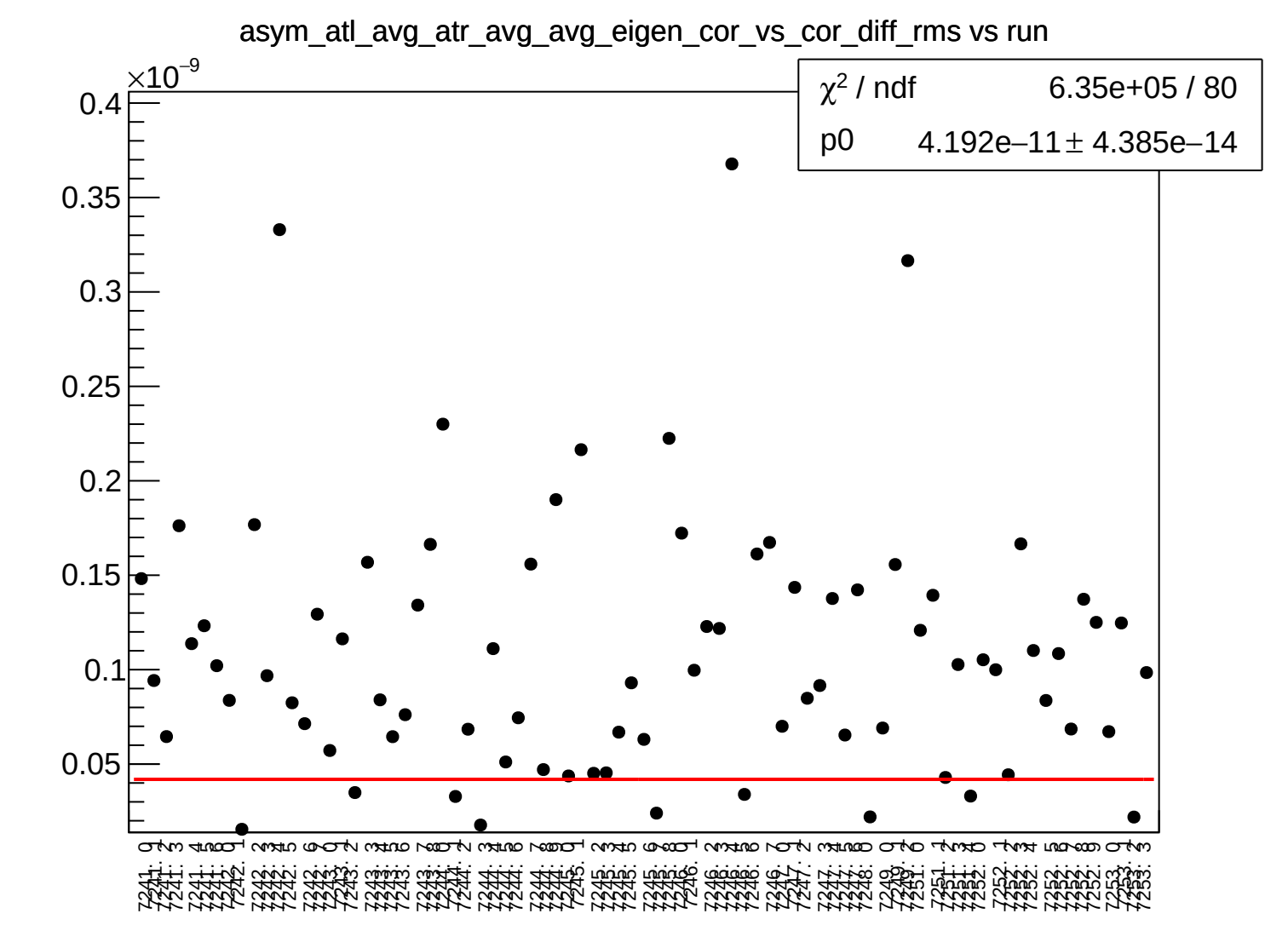

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.34 / 80
p0 0.05429 ± 0.2534
pull
Entries 81
Mean −644.9
Std Dev 0

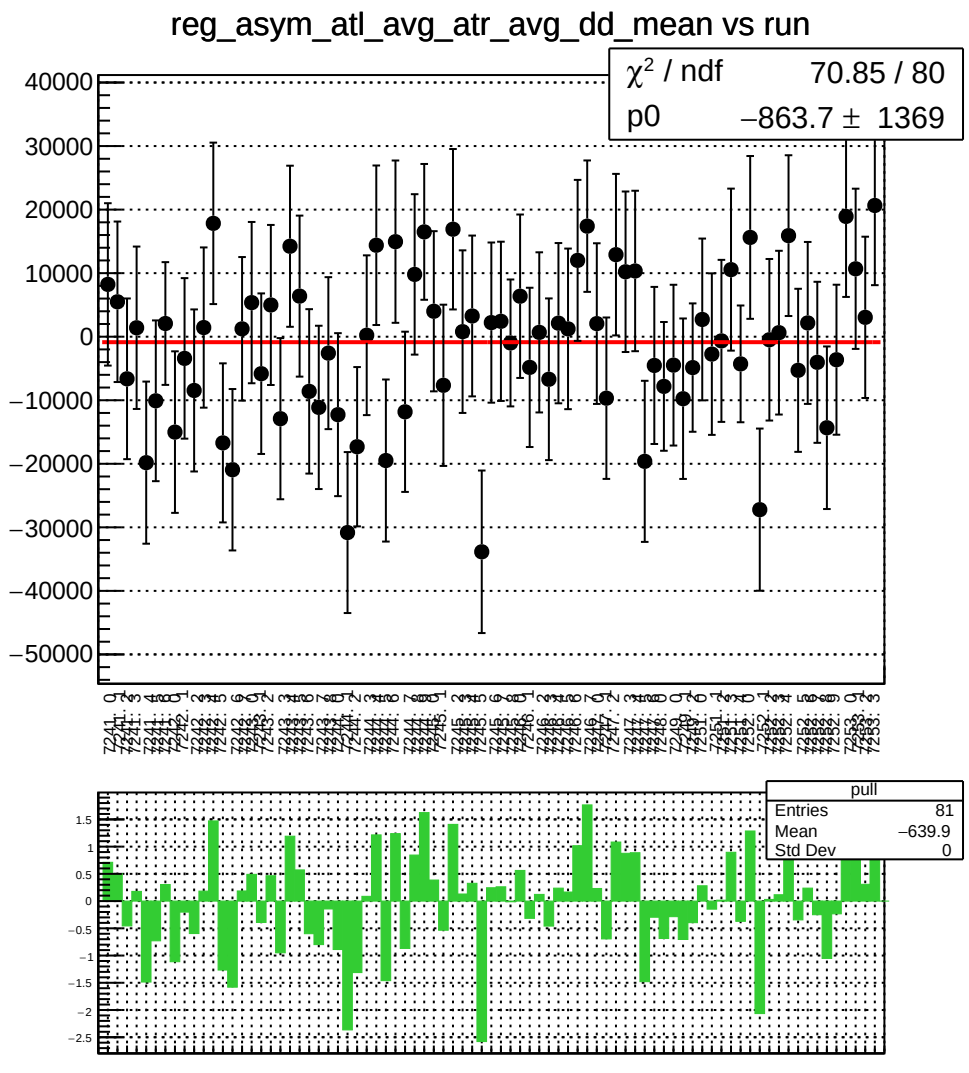

pull1D
Entries 81
Mean −0.006241
Std Dev 0.9708

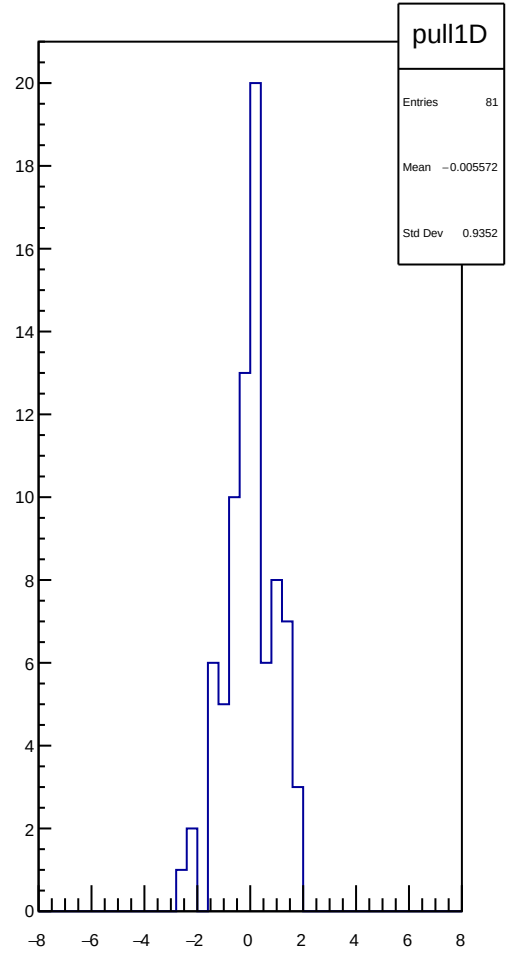

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.978e+04 / 80
p0 220.9 ± 0.1792
340
320
300
280
260
240
220
200
180
160

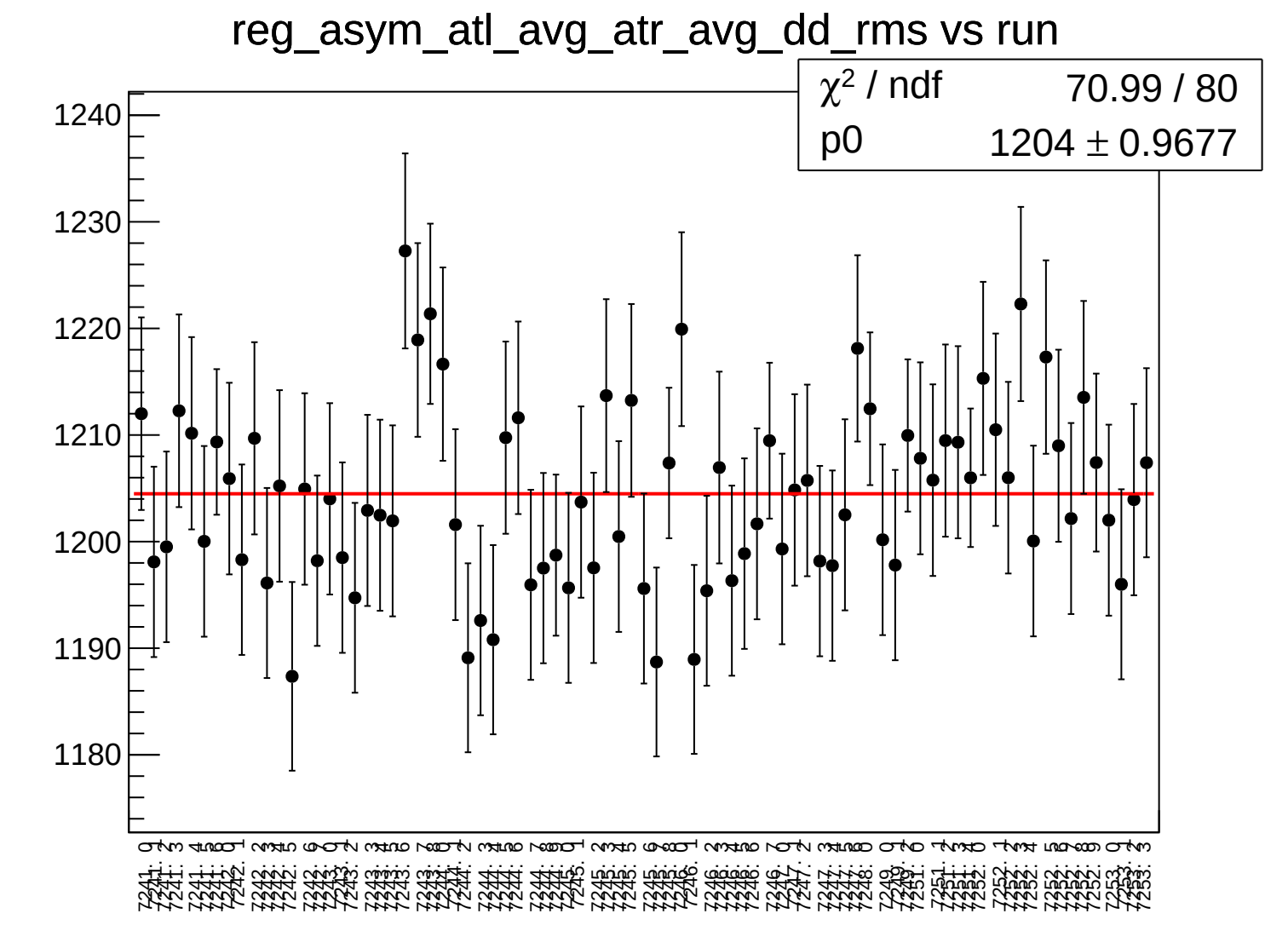

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 65.86 / 80
p0 −8.158e−14 ± 6.201e−14
pull
Entries 81
Mean 17.76
Std Dev 0

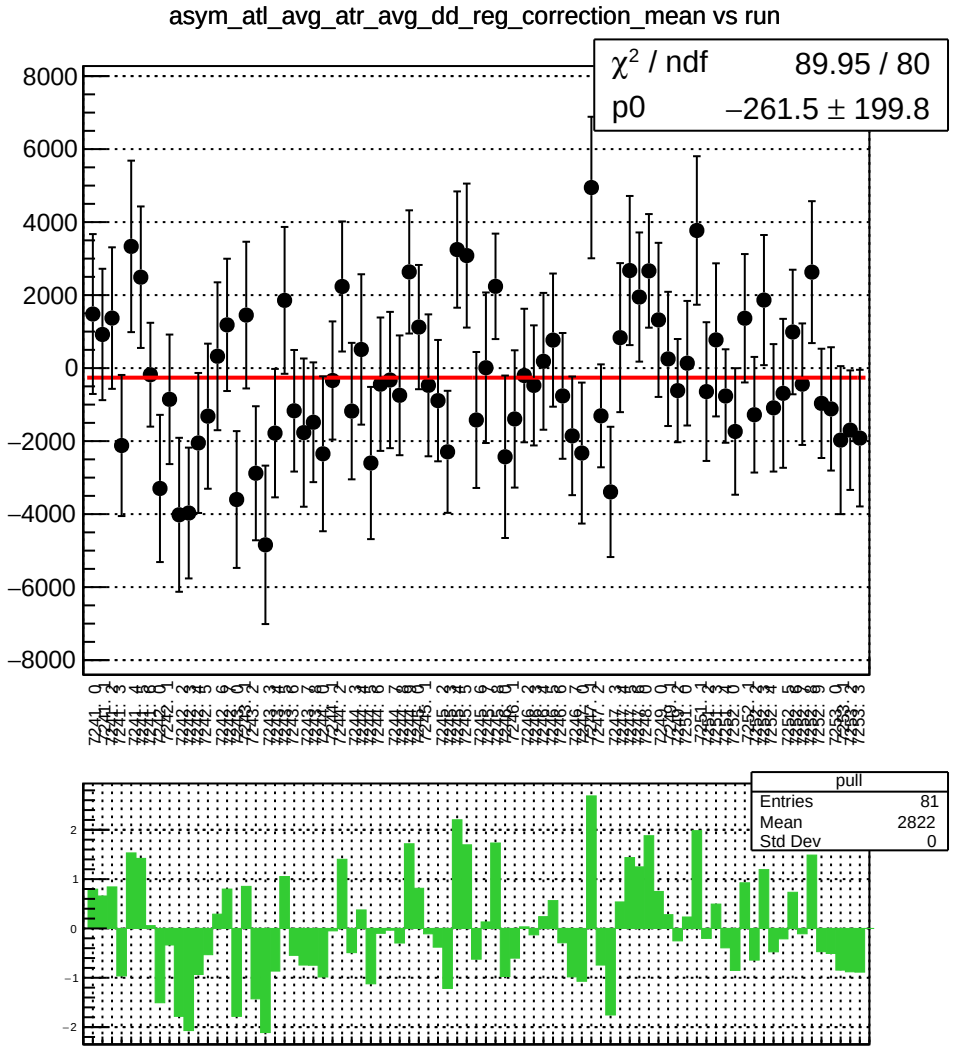

pull1D
Entries 81
Mean 0.04603
Std Dev 0.9006

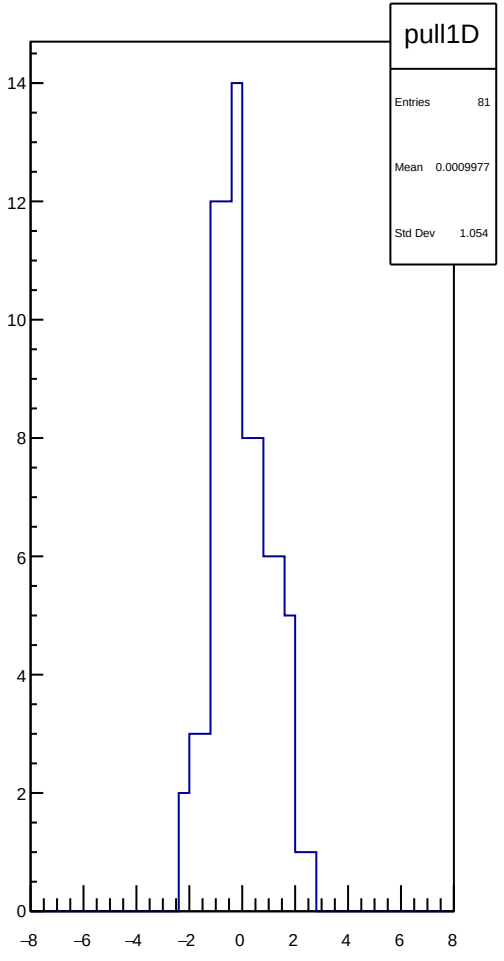

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.35e+05 / 80
p0 4.192e−11 ± 4.385e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

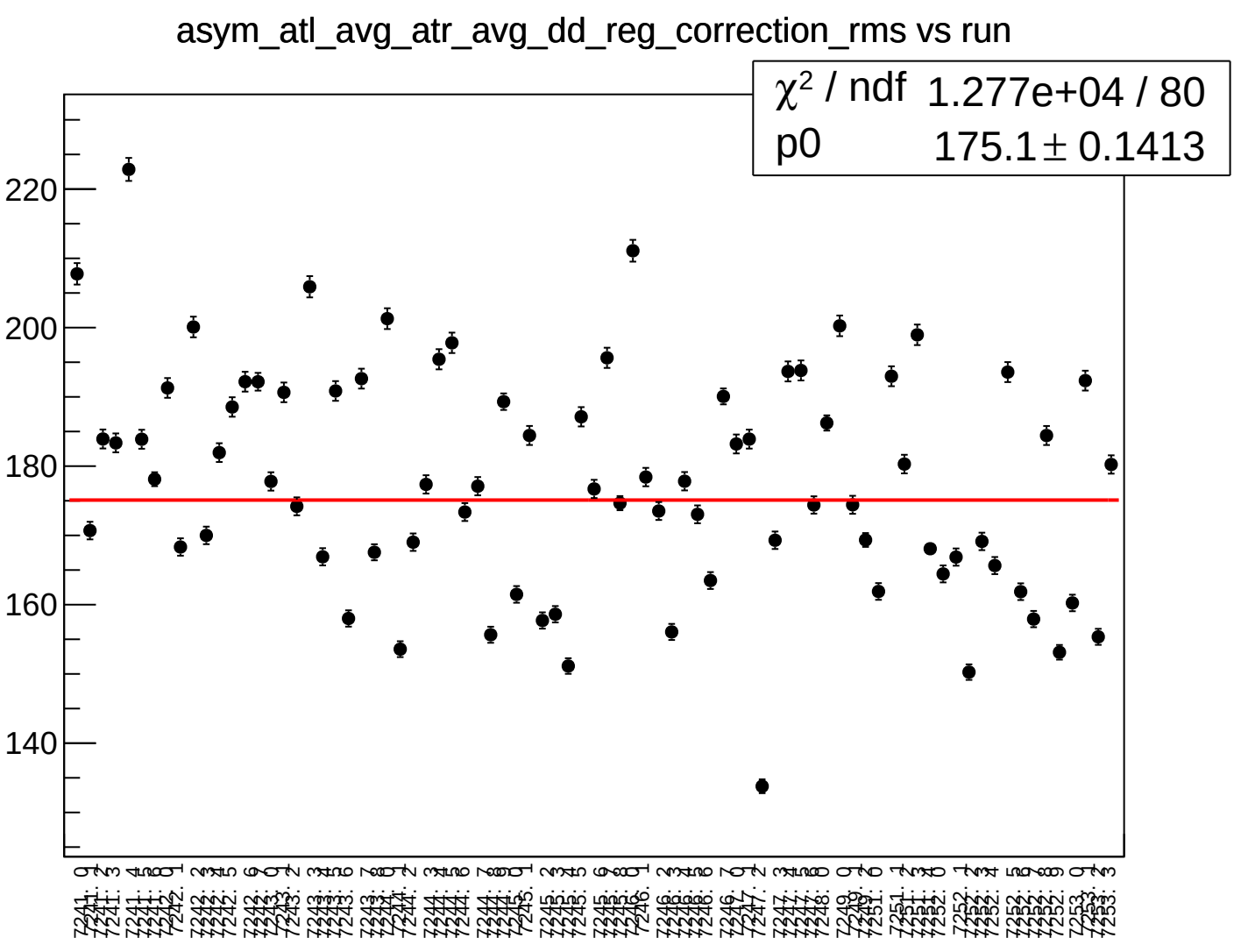

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 70.85 / 80
p0 −863.7 ± 1369
pull
Entries 81
Mean −639.9
Std Dev 0

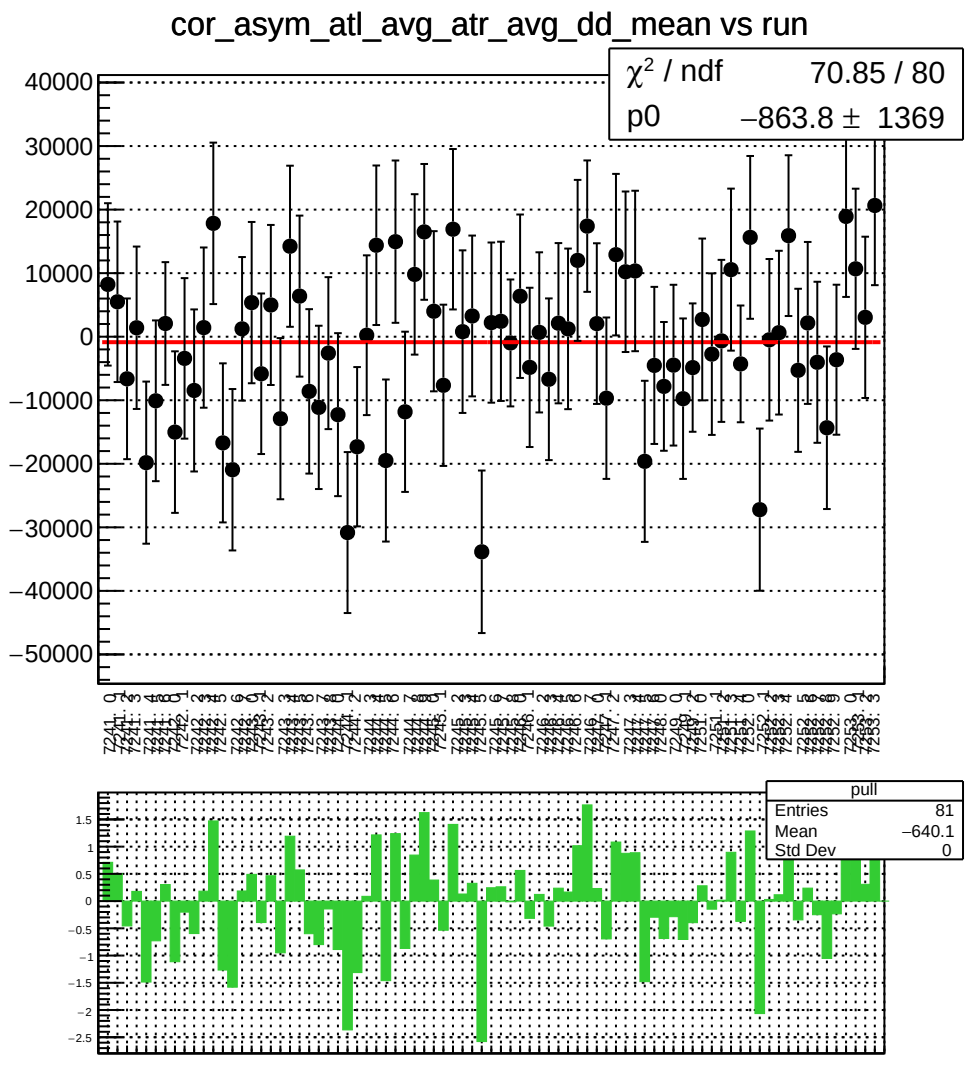

pull1D
Entries 81
Mean −0.005572
Std Dev 0.9352

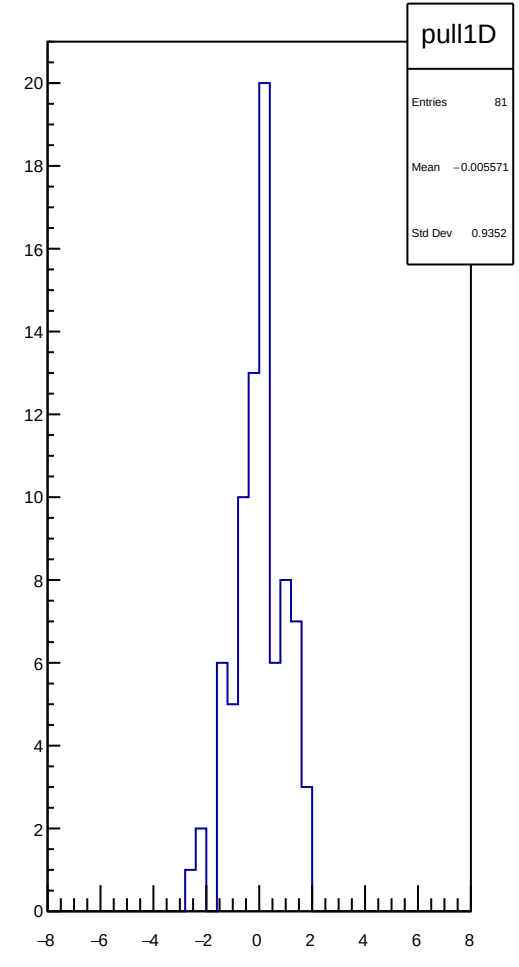

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 70.99 / 80
p0 1204 ± 0.9677
1240
1230
1220
1210
1200
1190
1180


asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 89.95 / 80
p0 −261.5 ± 199.8
pull
Entries 81
Mean 2822
Std Dev 0

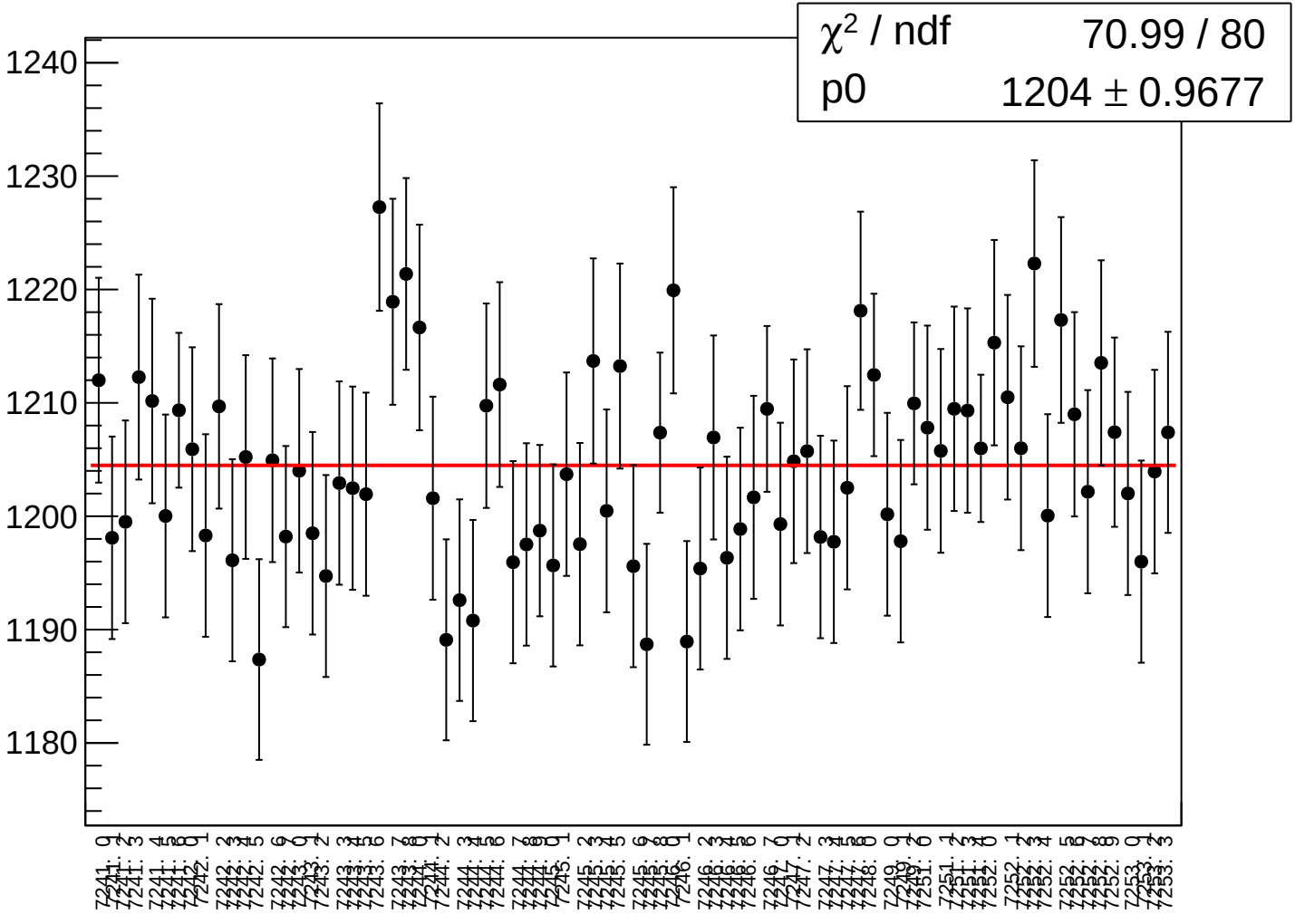

pull1D
Entries 81
Mean 0.0009977
Std Dev 1.054

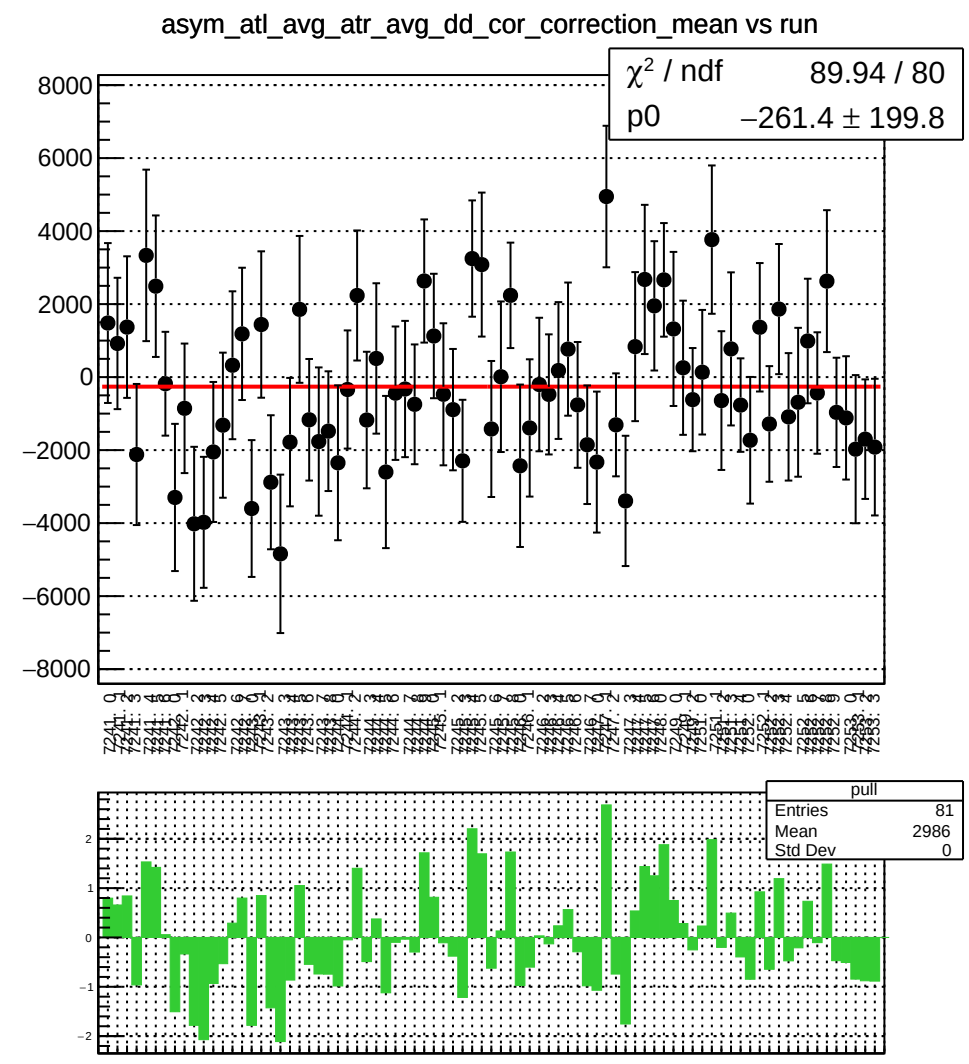

asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.277e+04 / 80
p0 175.1 ± 0.1413
220
200
180
160
140

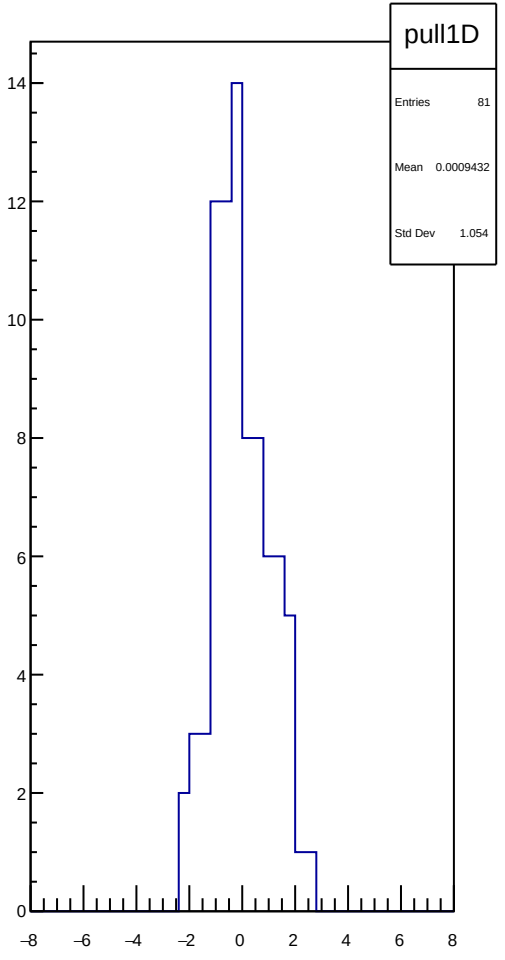

cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 70.85 / 80
p0 −863.8 ± 1369
pull
Entries 81
Mean −640.1
Std Dev 0

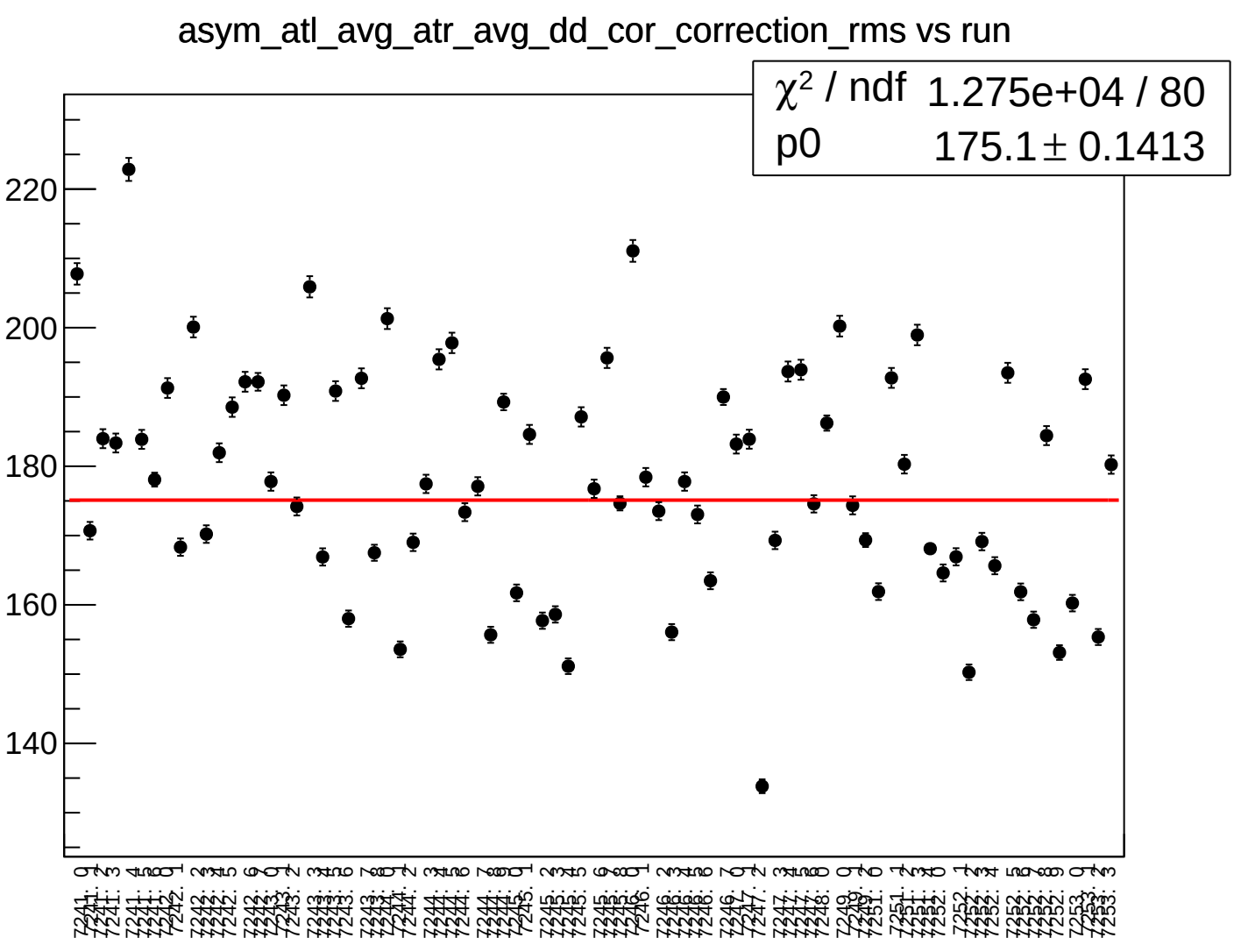

pull1D
Entries 81
Mean −0.005571
Std Dev 0.9352

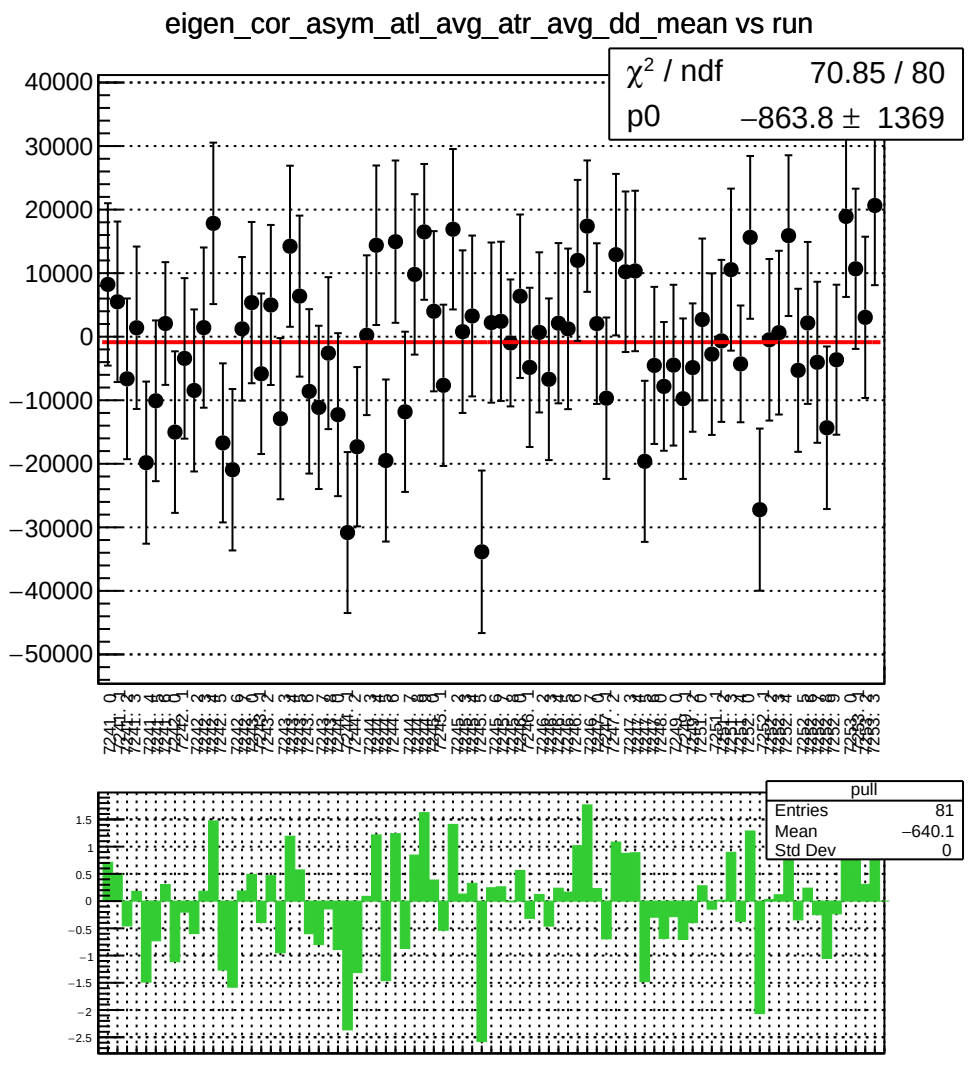
cor_asym_atl_avg_atr_avg_dd_rms vs run

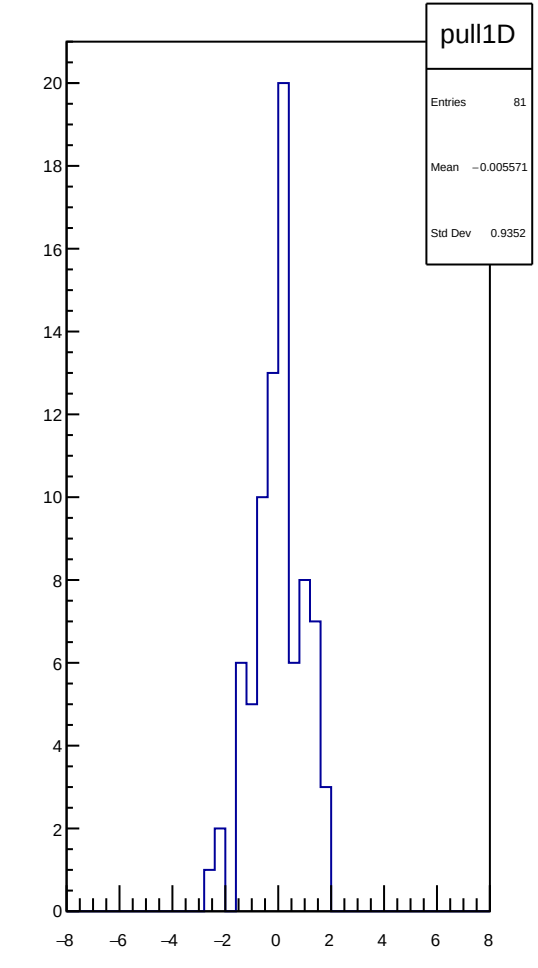


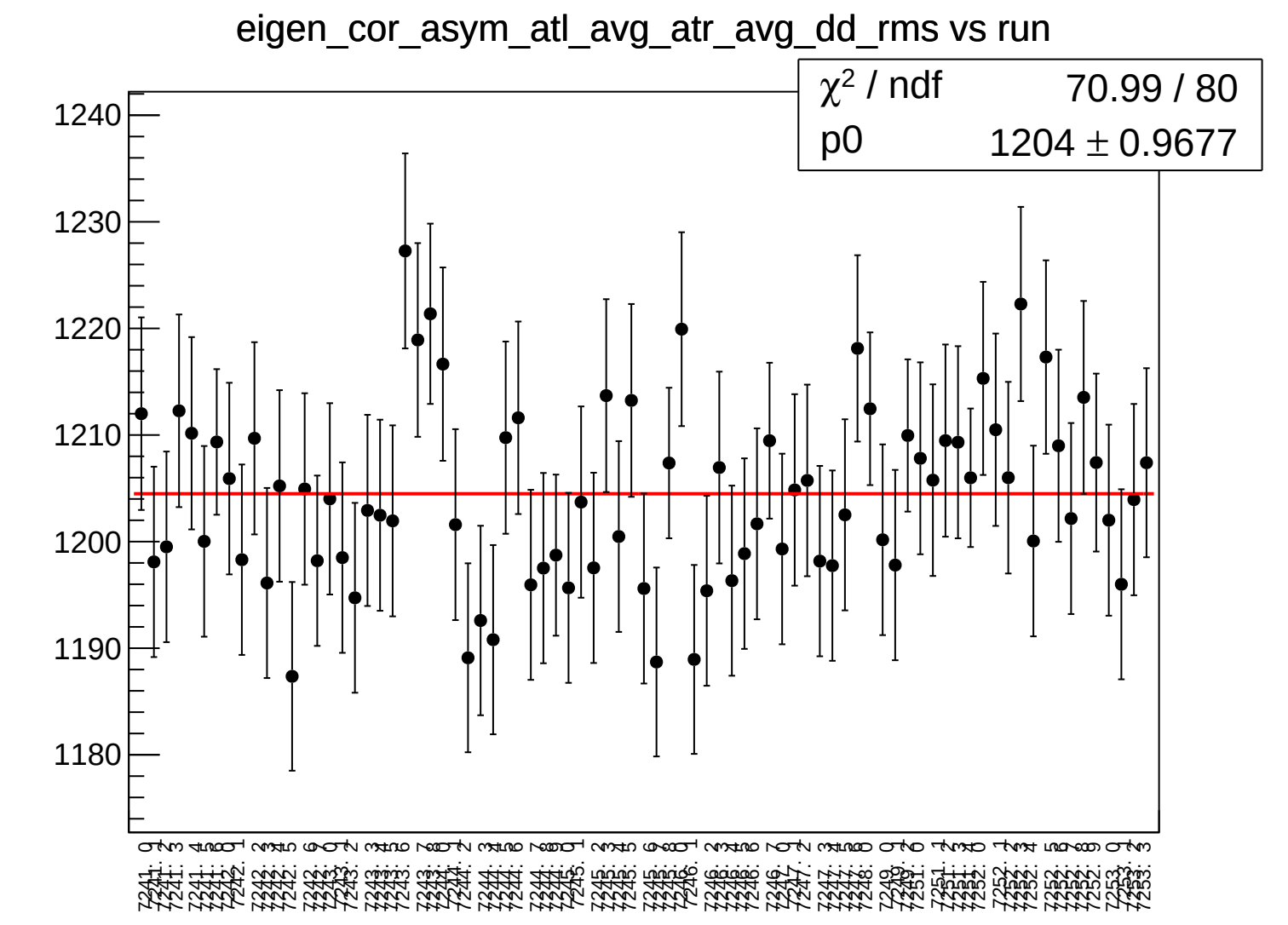

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 89.94 / 80
p0 −261.4 ± 199.8
pull
Entries 81
Mean 2986
Std Dev 0

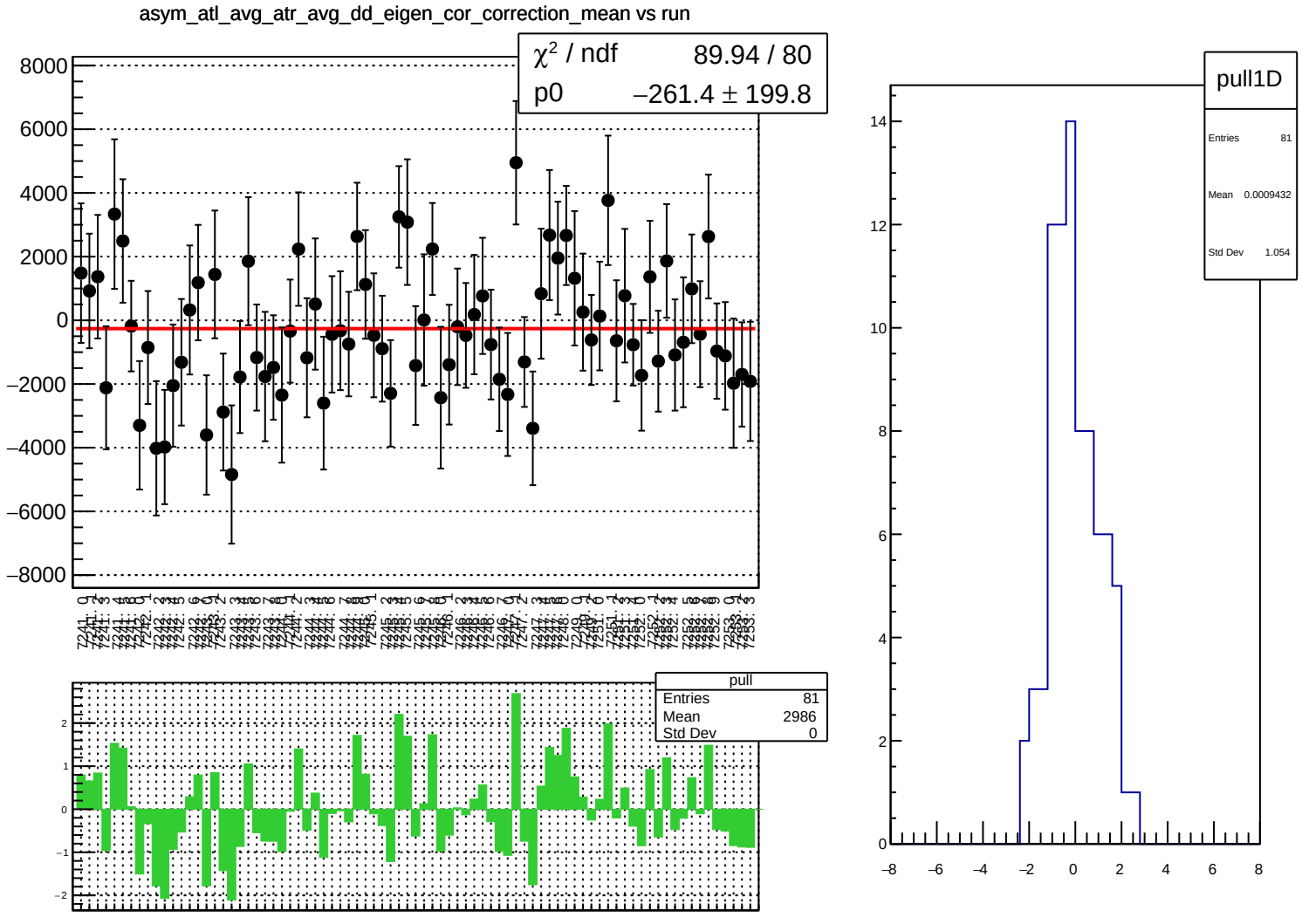

pull1D
Entries 81
Mean 0.0009432
Std Dev 1.054

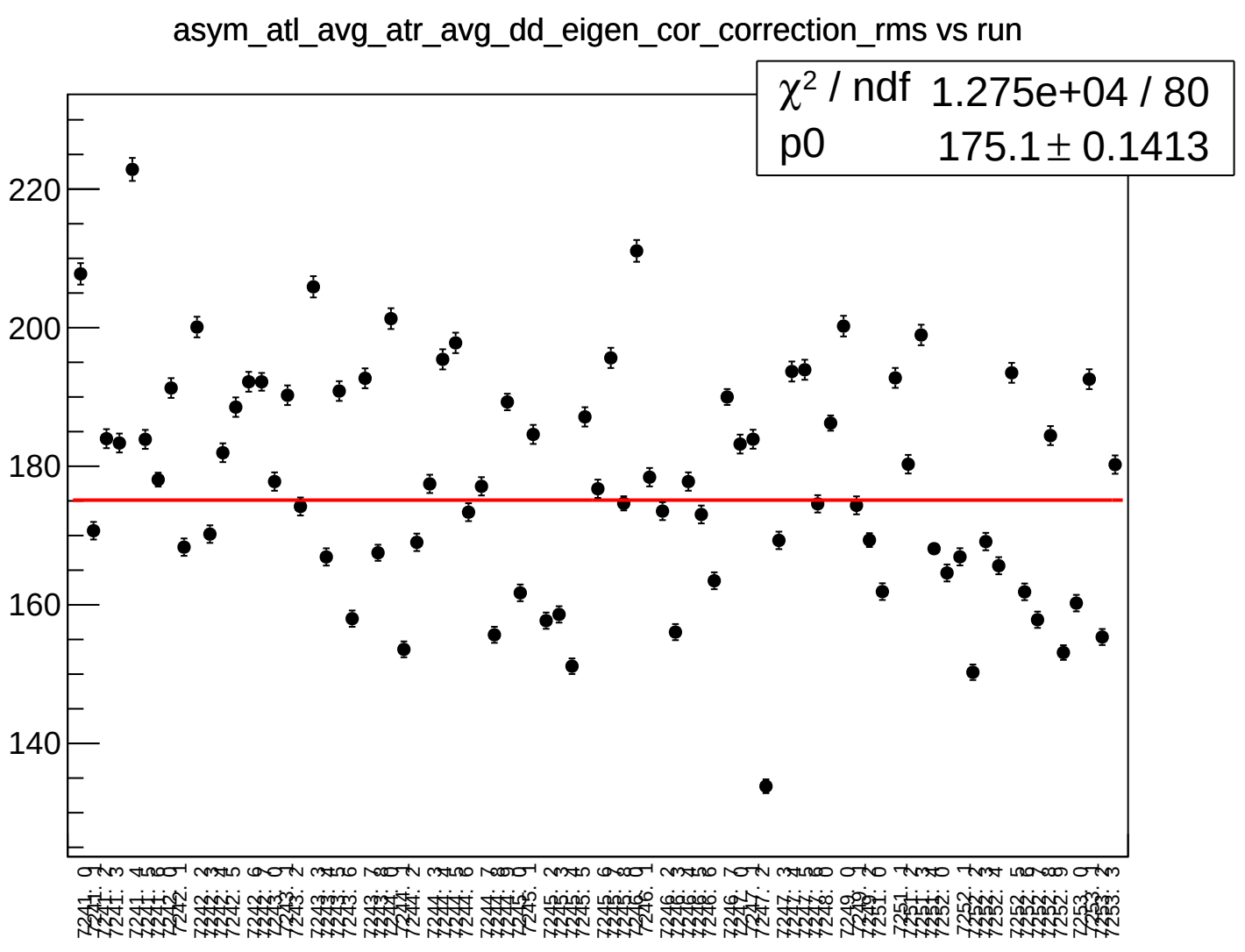

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.275e+04 / 80
p0 175.1 ± 0.1413
220
200
180
160
140

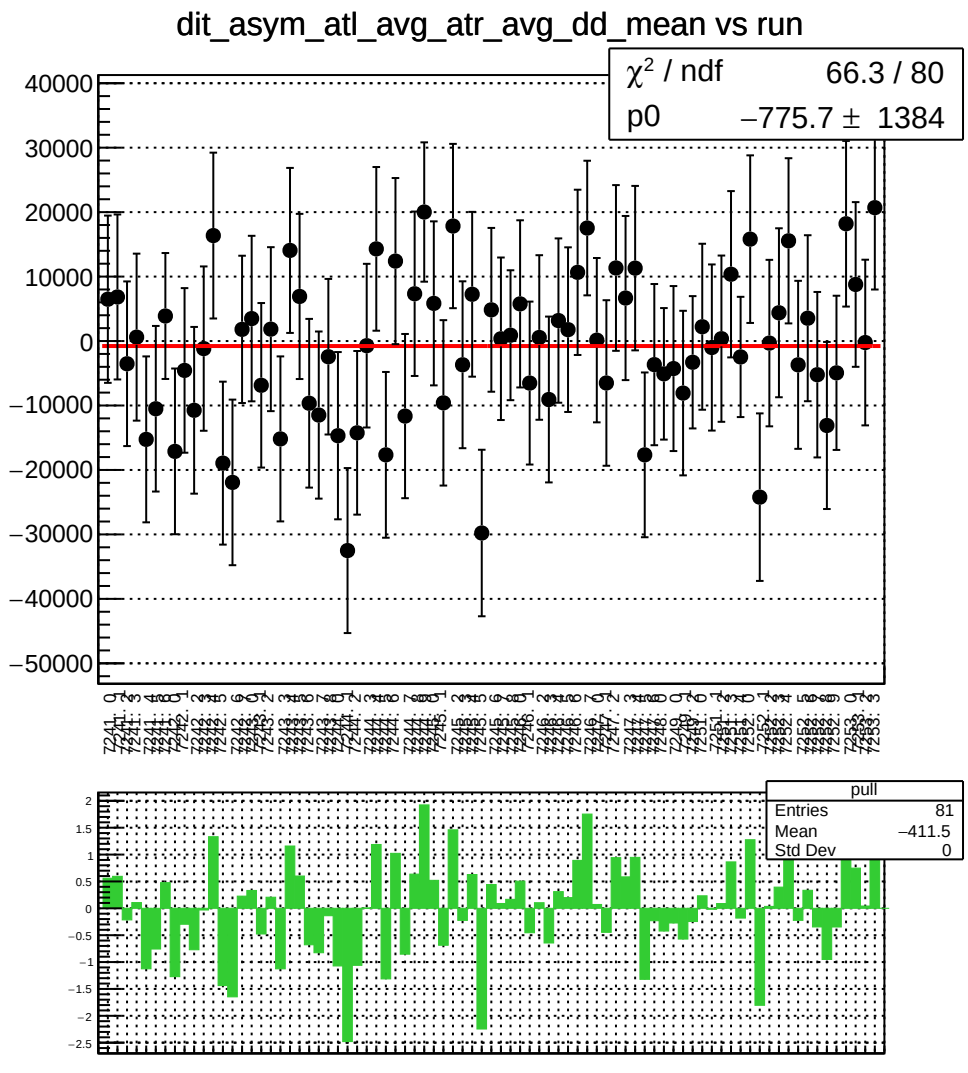

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 70.85 / 80
p0 −863.8 ± 1369
pull
Entries 81
Mean −640.1
Std Dev 0

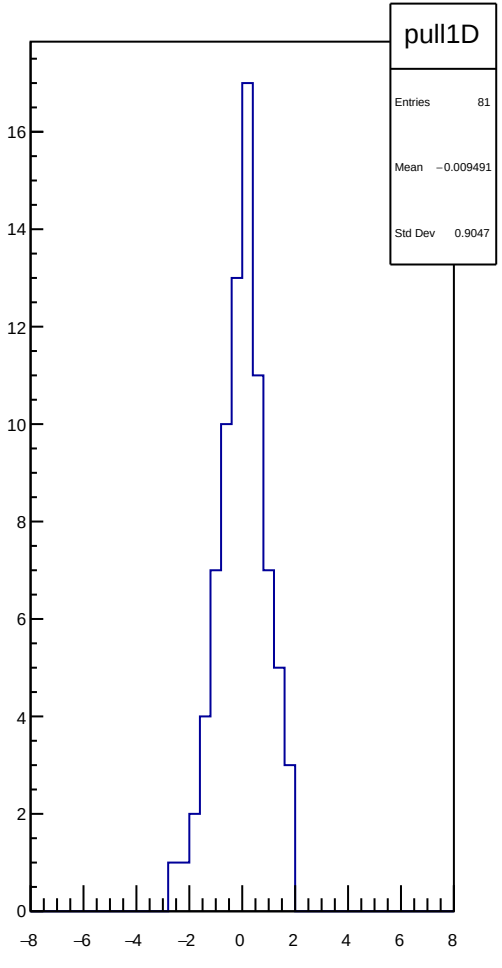

pull1D
Entries 81
Mean −0.005571
Std Dev 0.9352

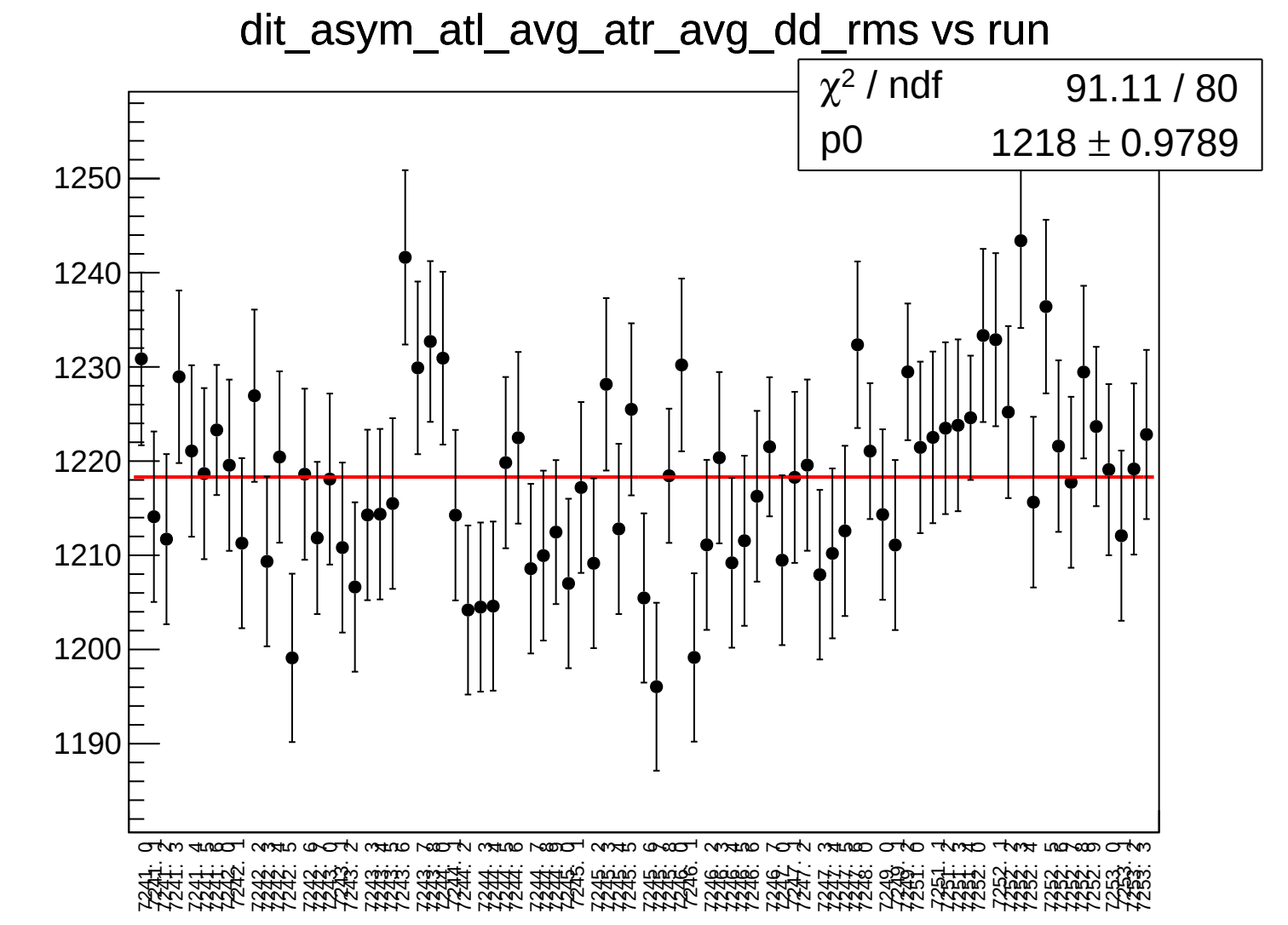

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 70.99 / 80
p0 1204 ± 0.9677
1240
1230
1220
1210
1200
1190
1180

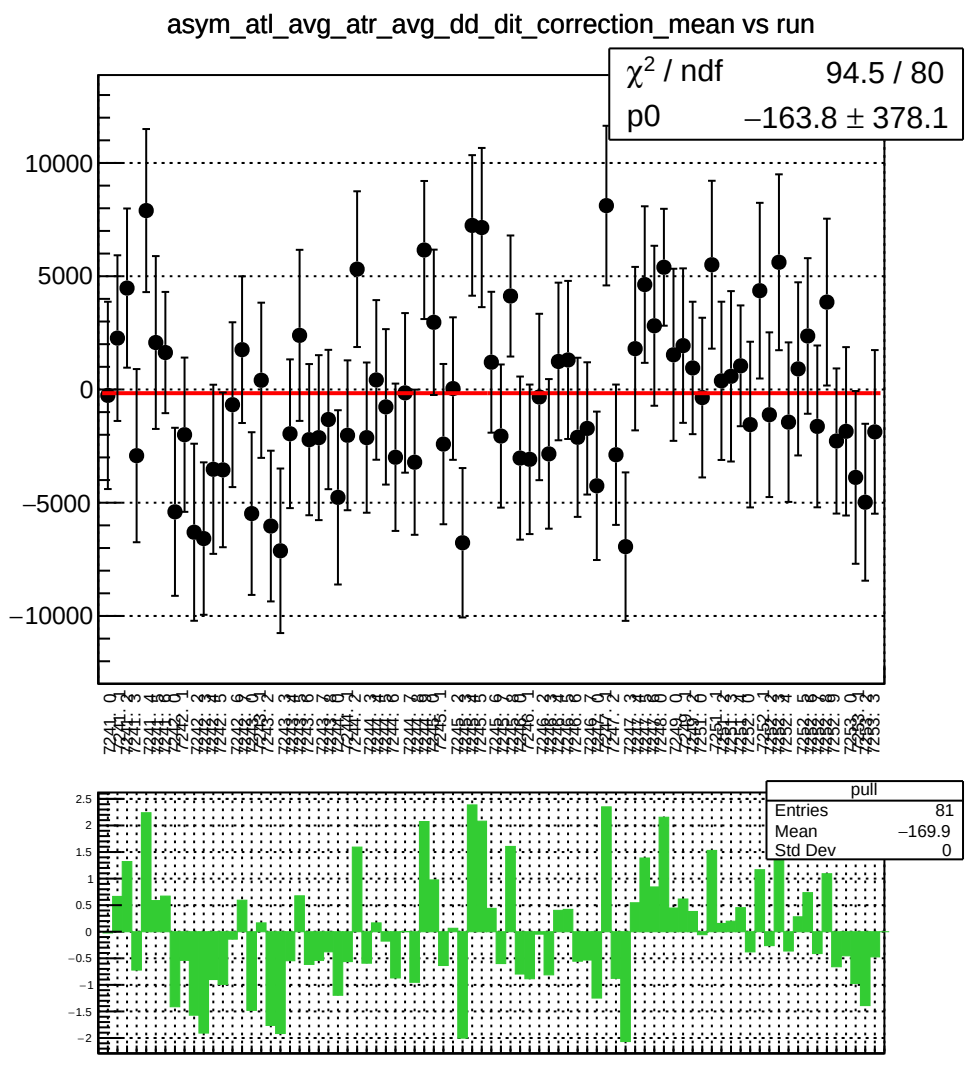

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 89.94 / 80
p0 −261.4 ± 199.8
pull
Entries 81
Mean 2986
Std Dev 0
pull1D
Entries 81
Mean 0.0009432
Std Dev 1.054

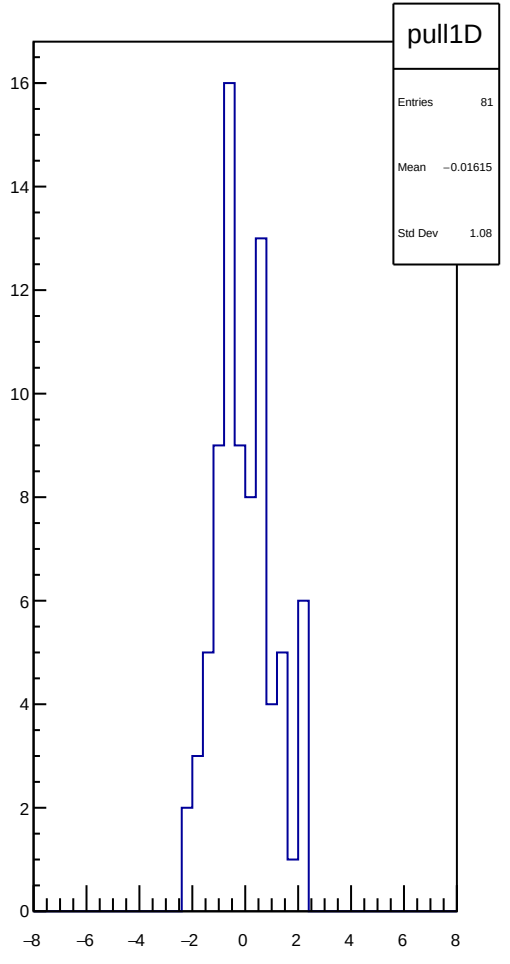

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.275e+04 / 80
p0 175.1 ± 0.1413
220
200
180
160
140

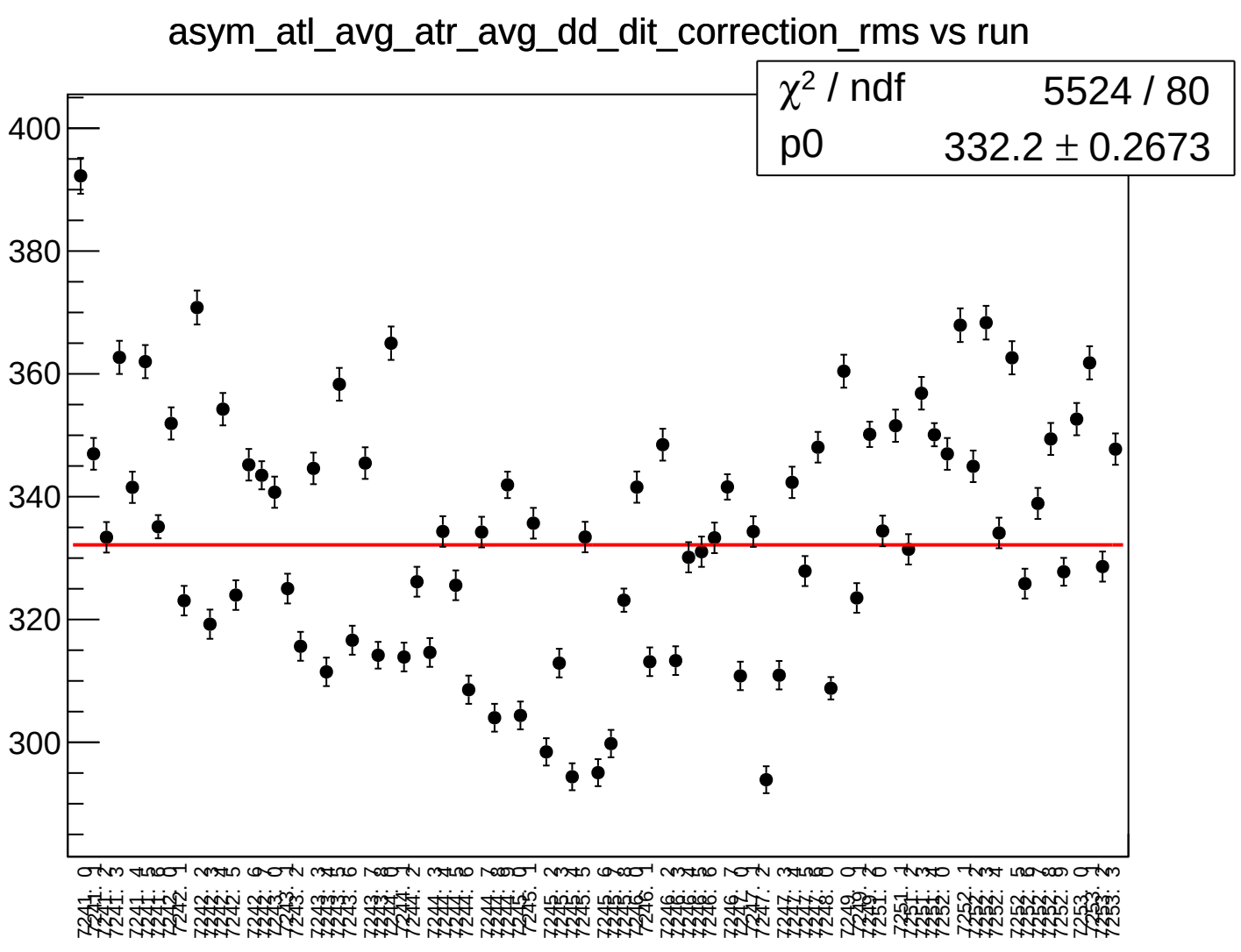

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 66.3 / 80
p0 −775.7 ± 1384
pull
Entries 81
Mean −411.5
Std Dev 0

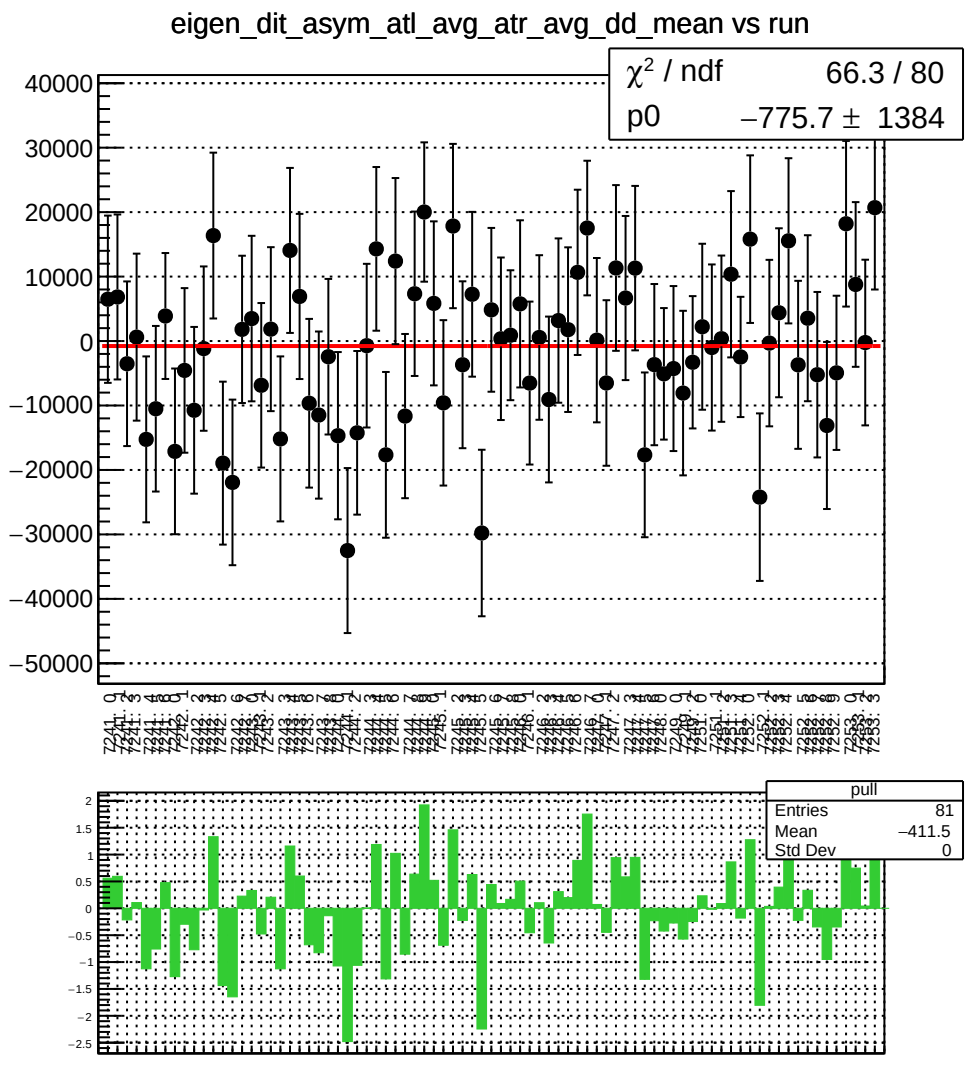

pull1D
Entries 81
Mean −0.009491
Std Dev 0.9047

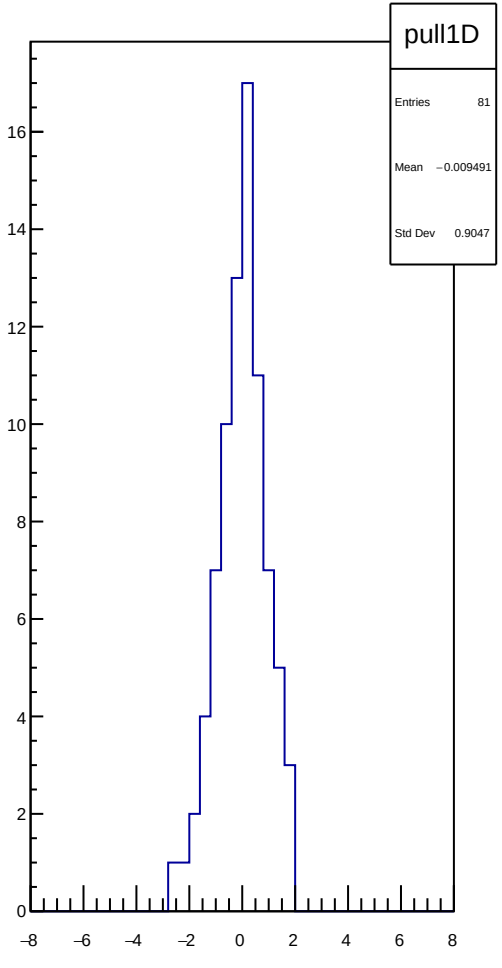

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 91.11 / 80
p0 1218 ± 0.9789
1250
1240
1230
1220
1210
1200
1190

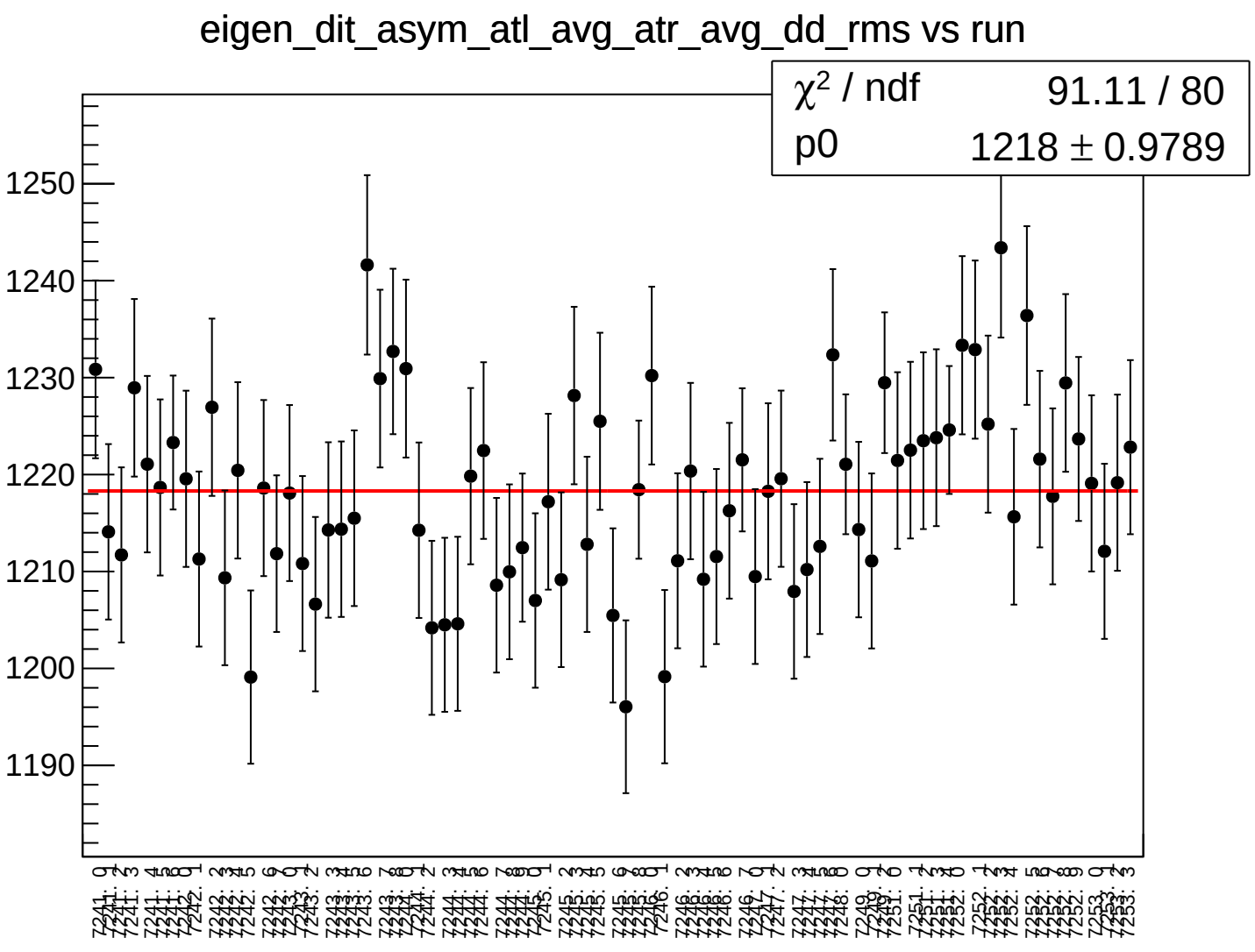

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 94.5 / 80
p0 −163.8 ± 378.1
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −169.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

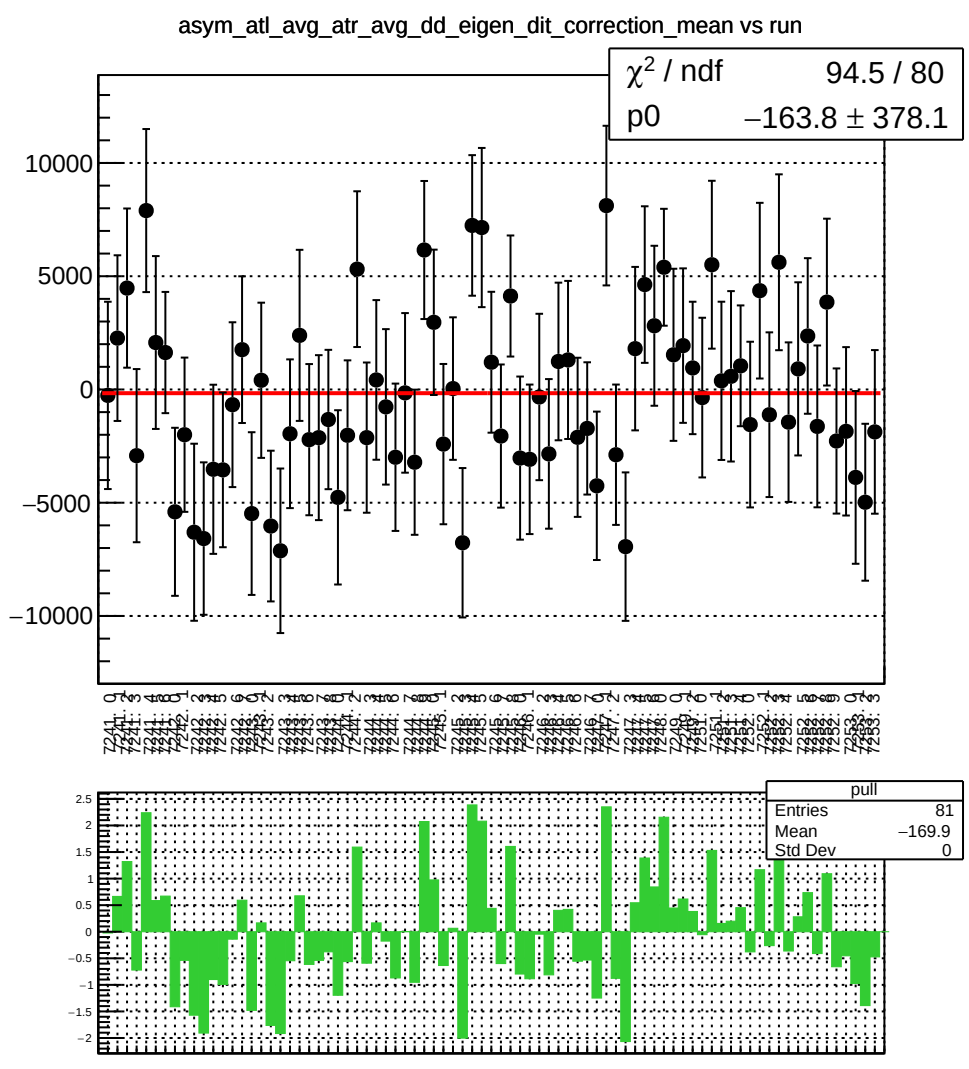

pull1D
Entries 81
Mean −0.01615
Std Dev 1.08
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

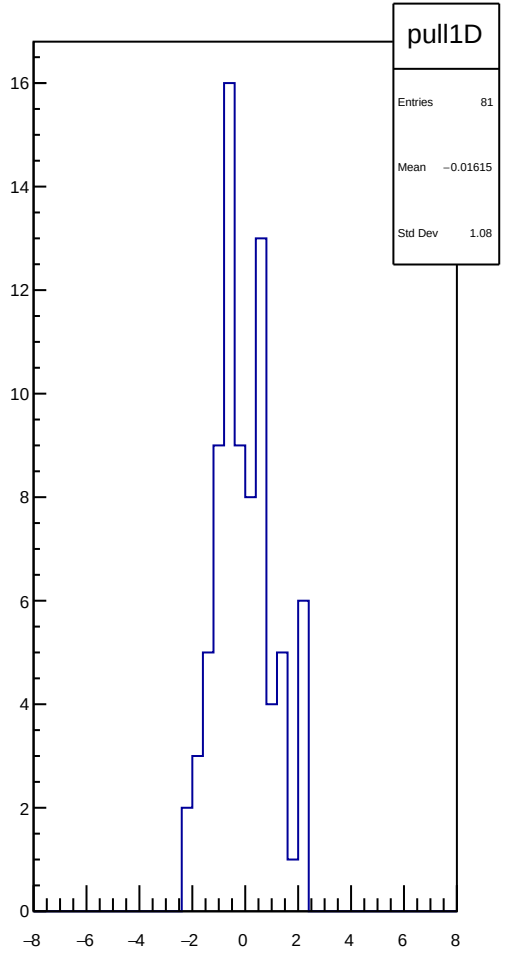

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 5524 / 80
p0 332.2 ± 0.2673
400
380
360
340
320
300

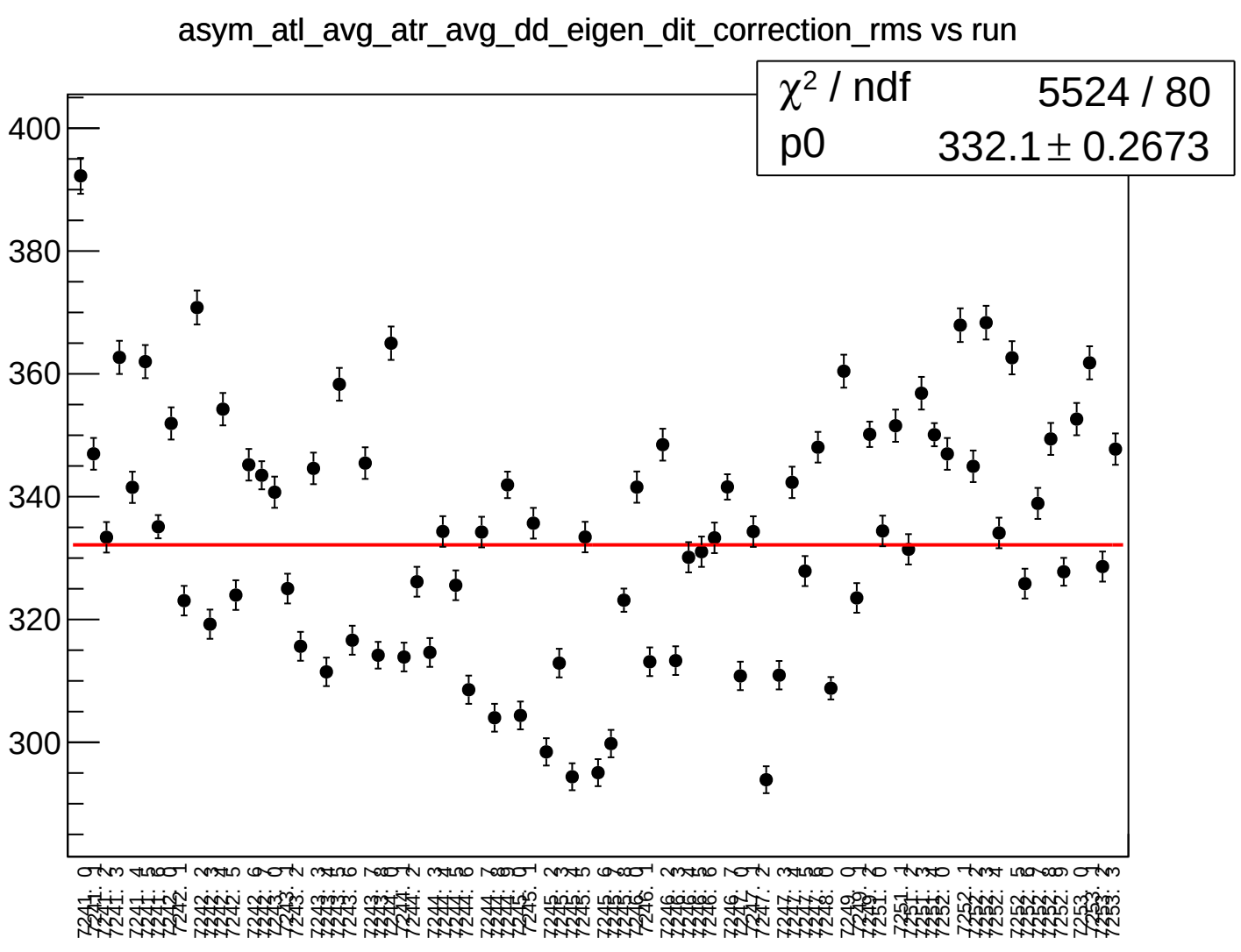

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 66.3 / 80
p0 −775.7 ± 1384
pull
Entries 81
Mean −411.5
Std Dev 0

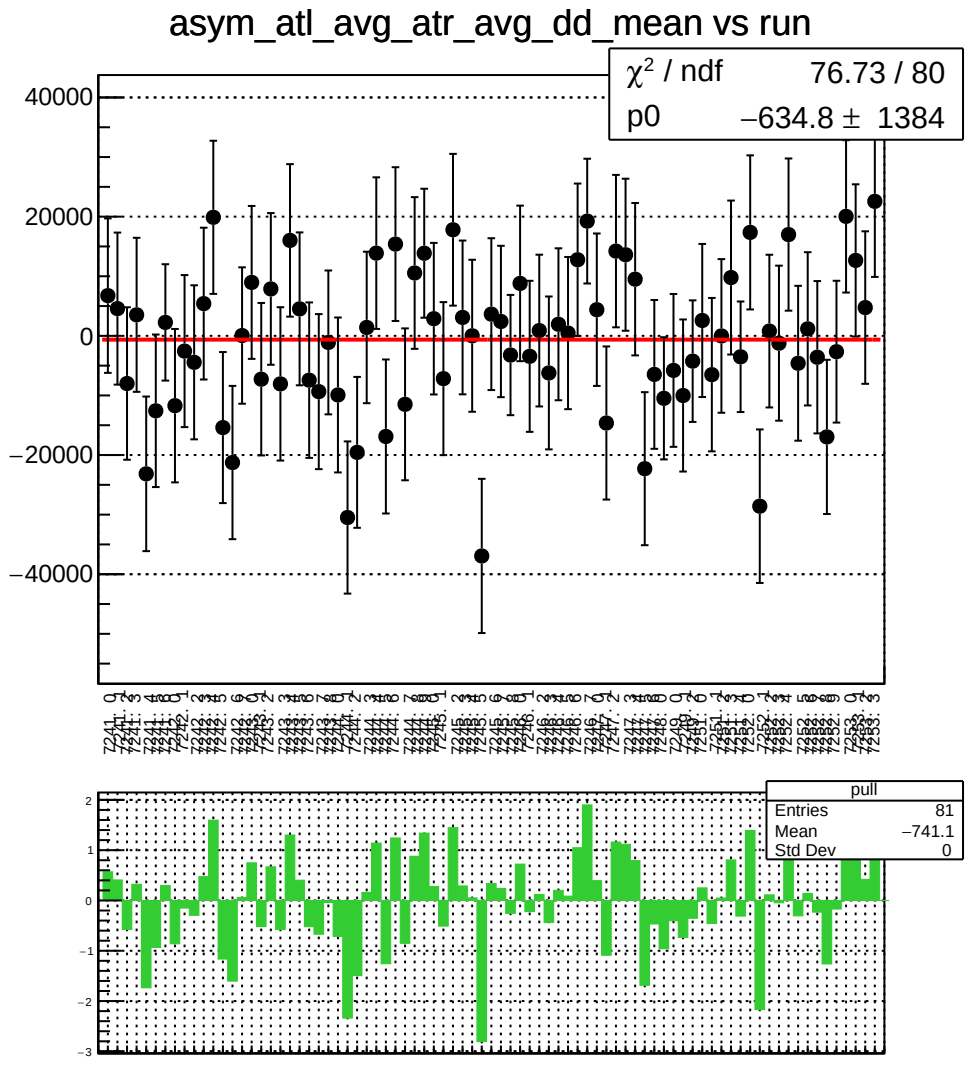

pull1D
Entries 81
Mean −0.009491
Std Dev 0.9047

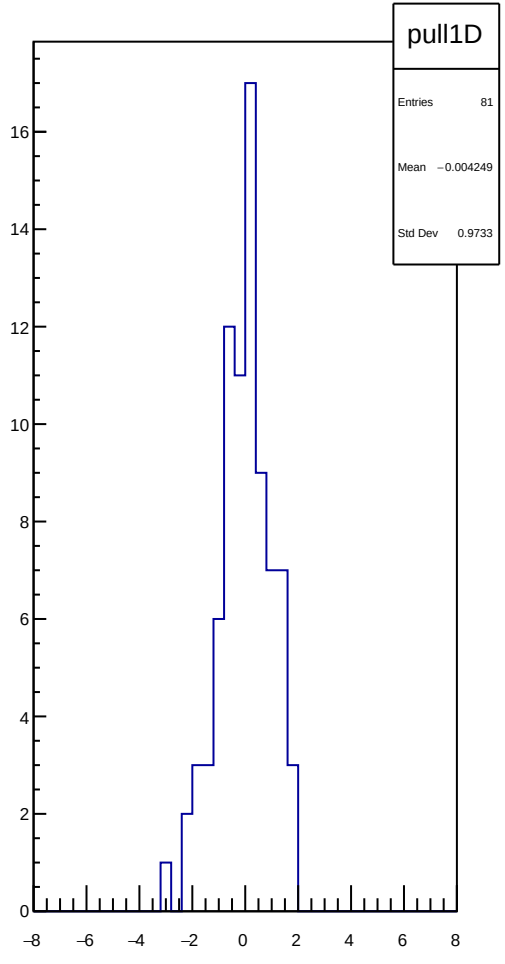

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 91.11 / 80
p0 1218 ± 0.9789
1250
1240
1230
1220
1210
1200
1190

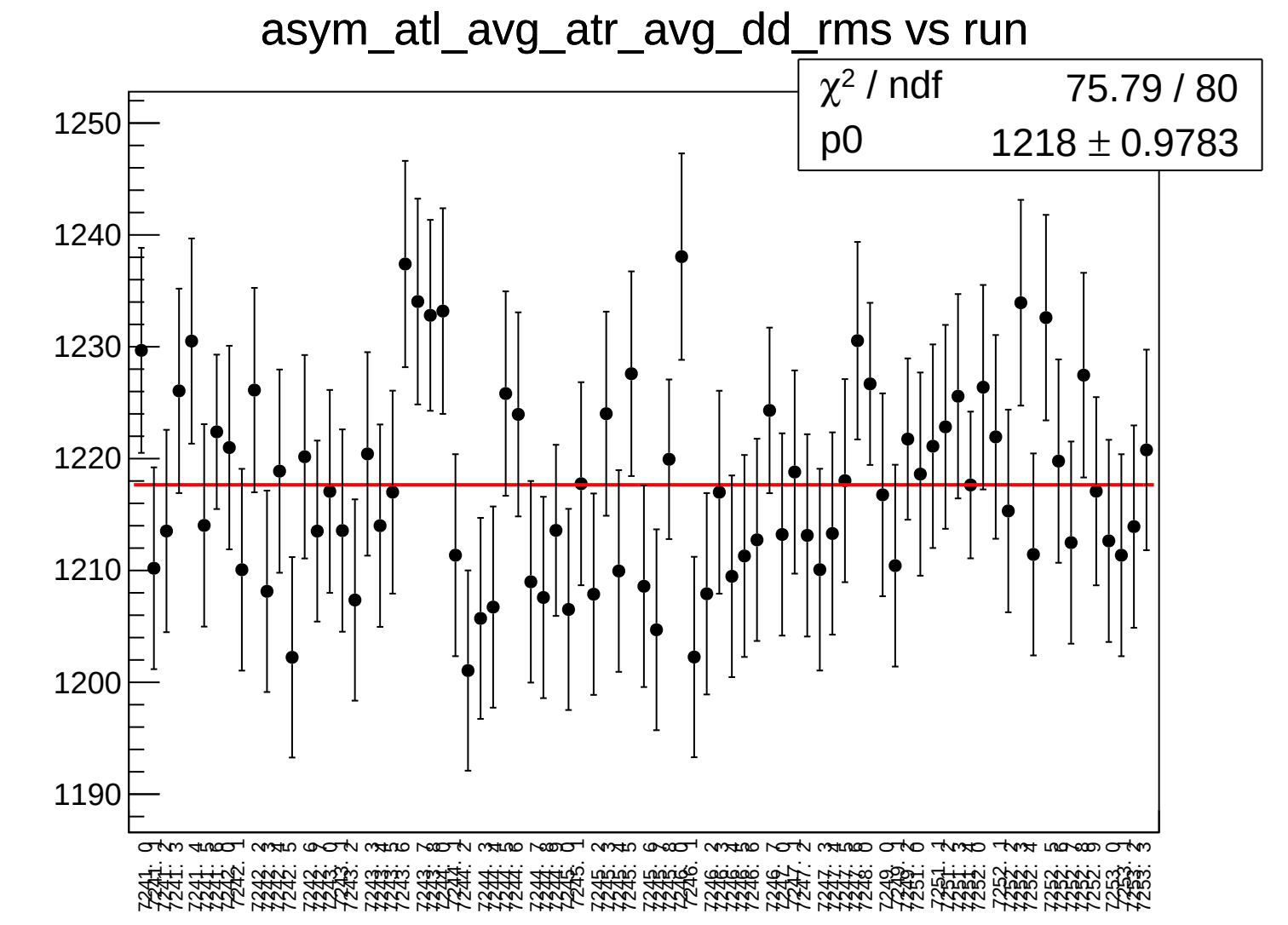

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 94.5 / 80
p0 −163.8 ± 378.1
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −169.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

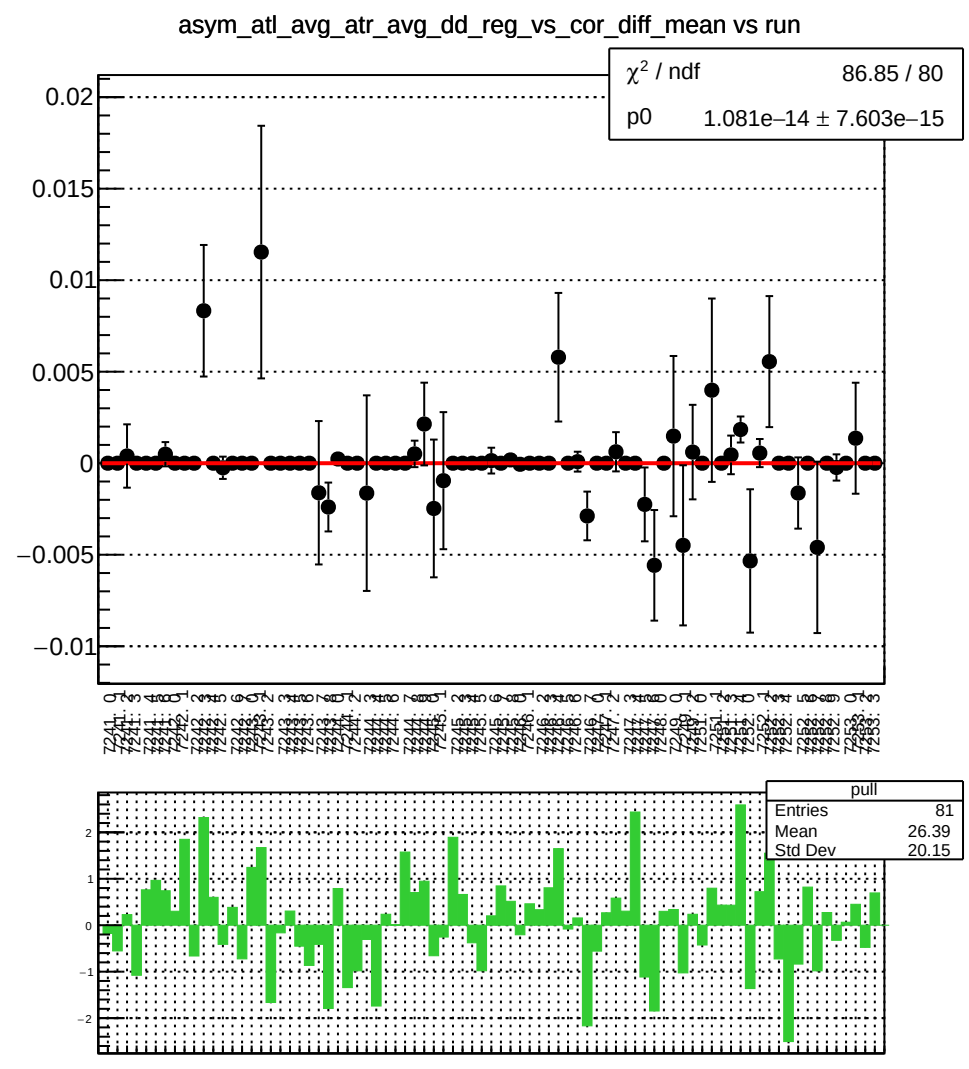

pull1D
Entries 81
Mean −0.01615
Std Dev 1.08
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

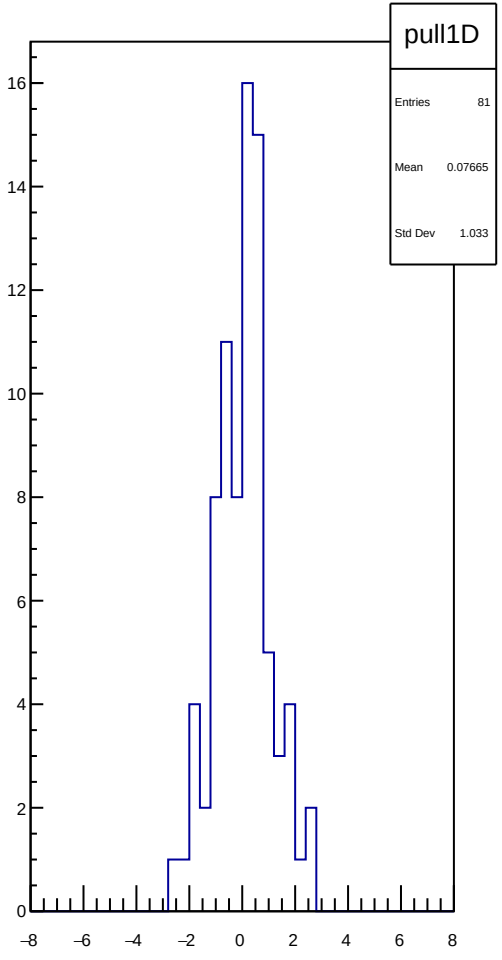

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 5524 / 80
p0 332.1 ± 0.2673
400
380
360
340
320
300

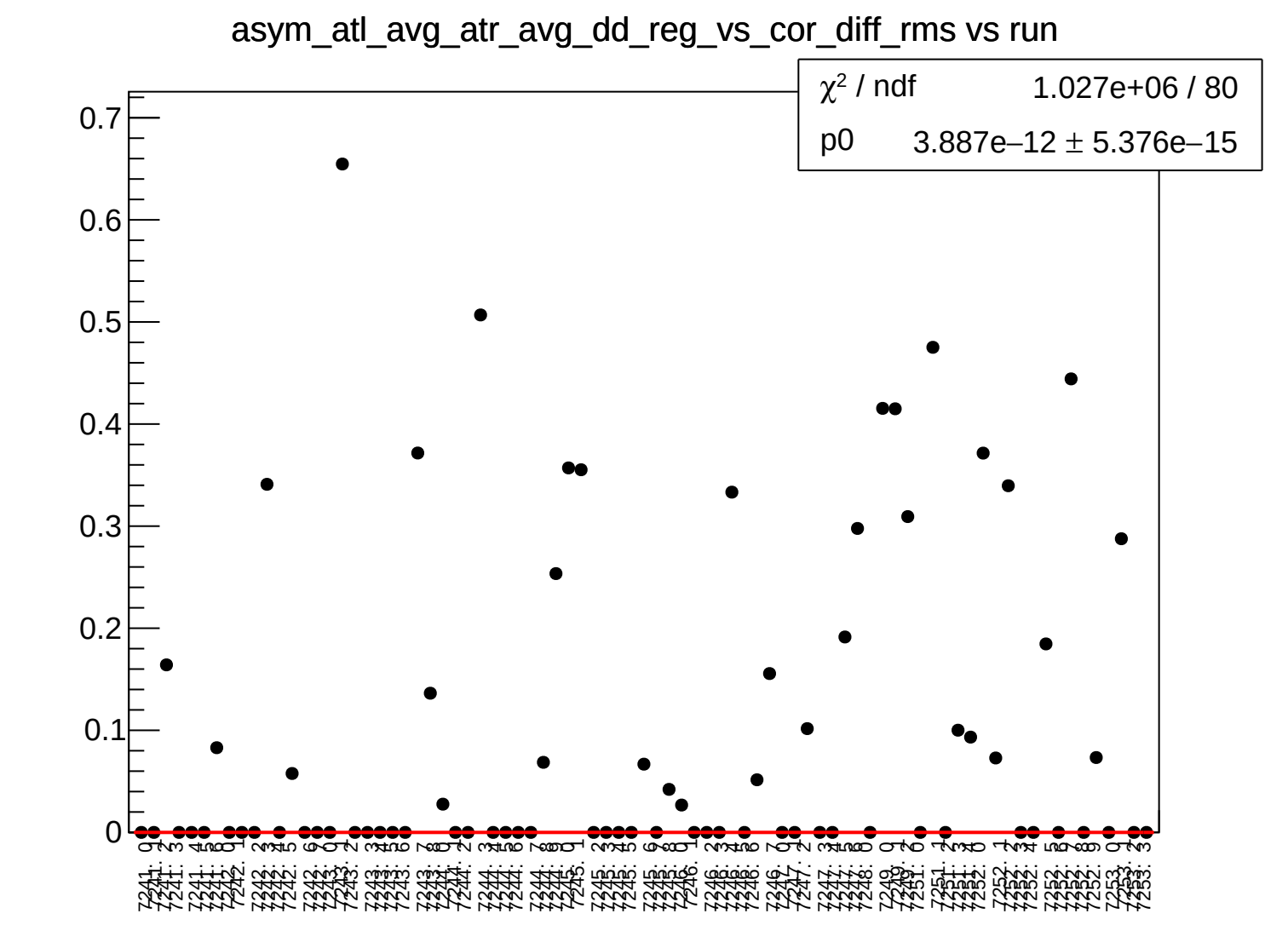

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 76.73 / 80
p0 −634.8 ± 1384
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −741.1
Std Dev 0
2
1
0
−1
−2
−3

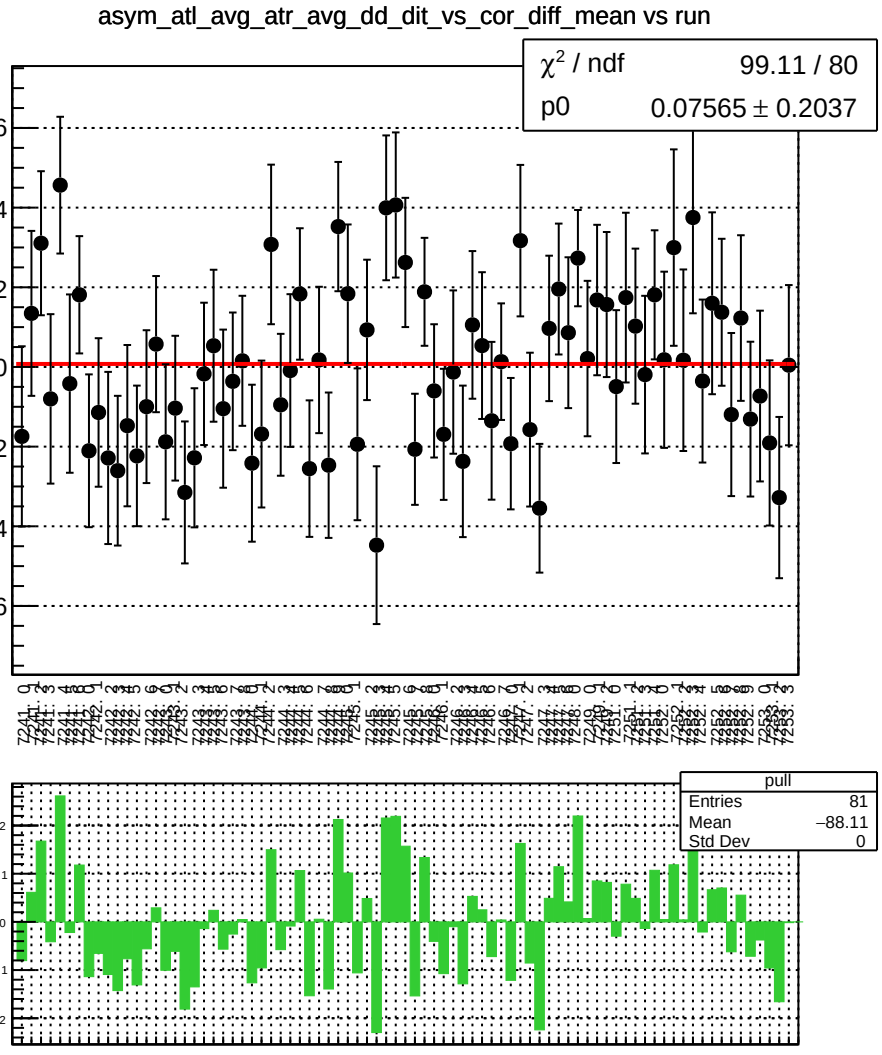

pull1D
Entries 81
Mean −0.004249
Std Dev 0.9733
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

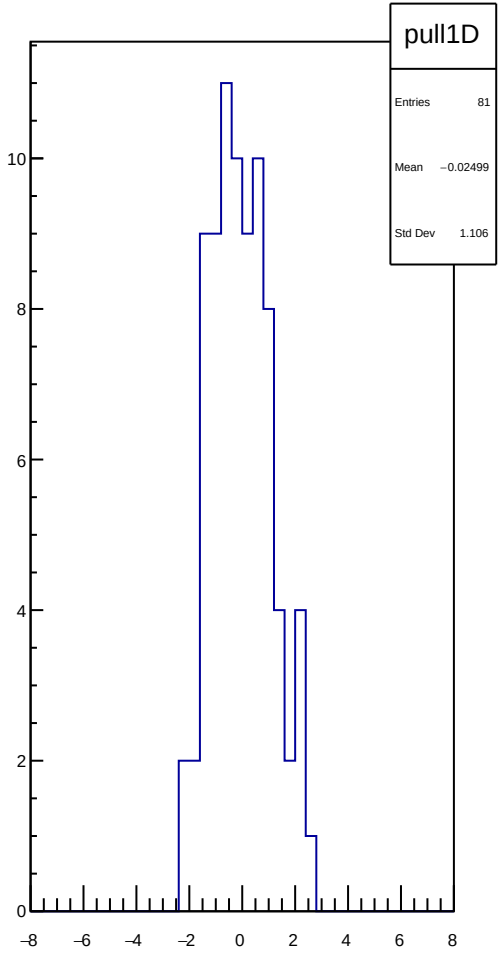

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 75.79 / 80
p0 1218 ± 0.9783
1250
1240
1230
1220
1210
1200
1190

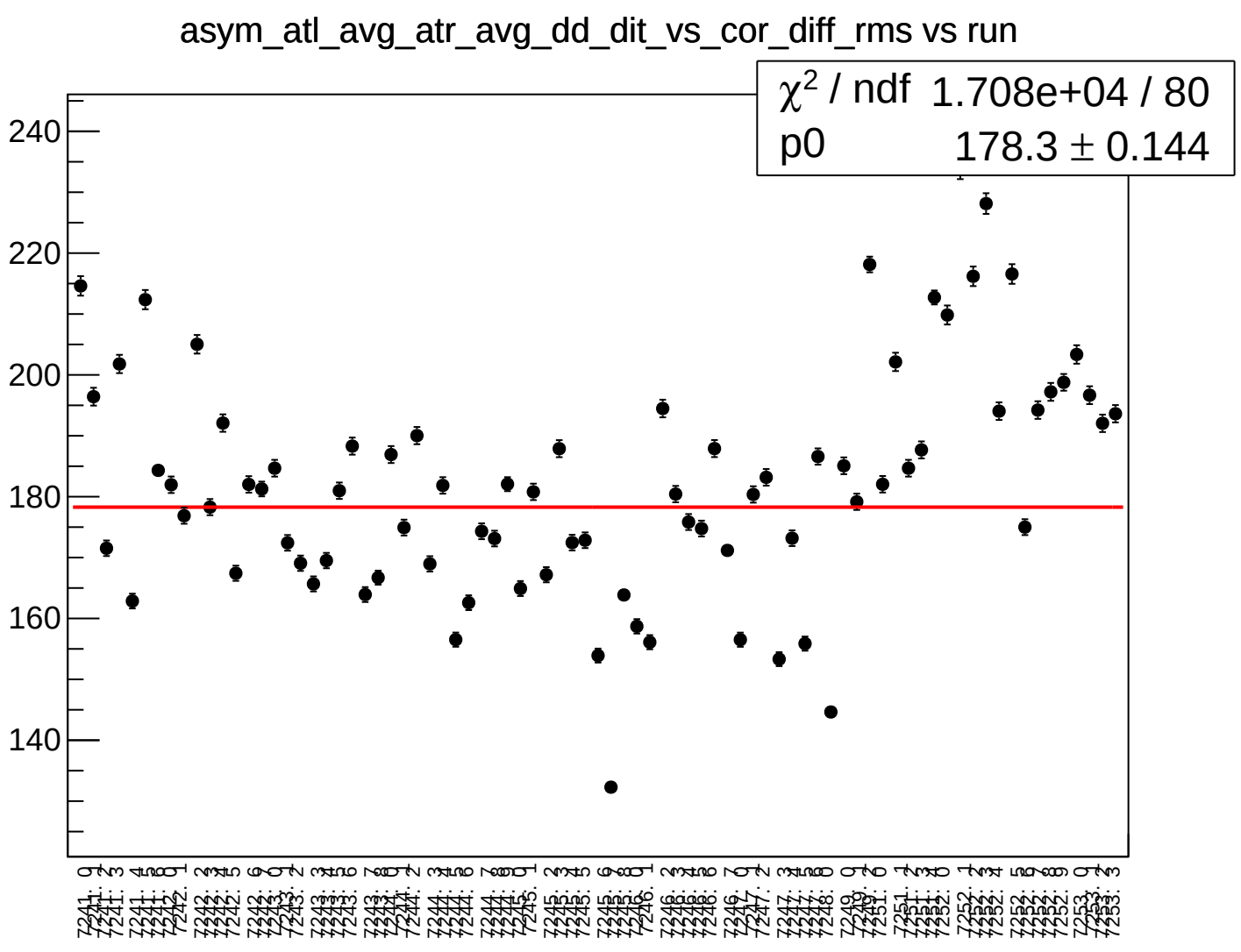

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 86.85 / 80
p0 1.081e−14 ± 7.603e−15
pull
Entries 81
Mean 26.39
Std Dev 20.15

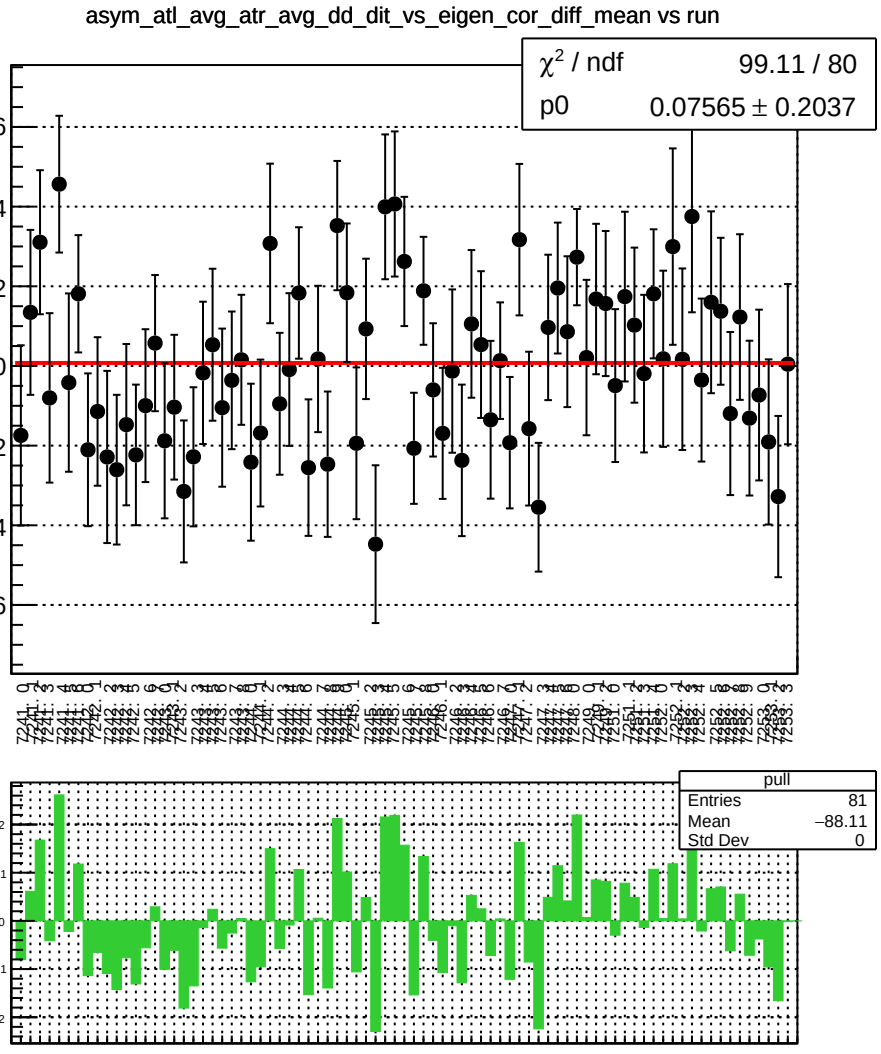

pull1D
Entries 81
Mean 0.07665
Std Dev 1.033

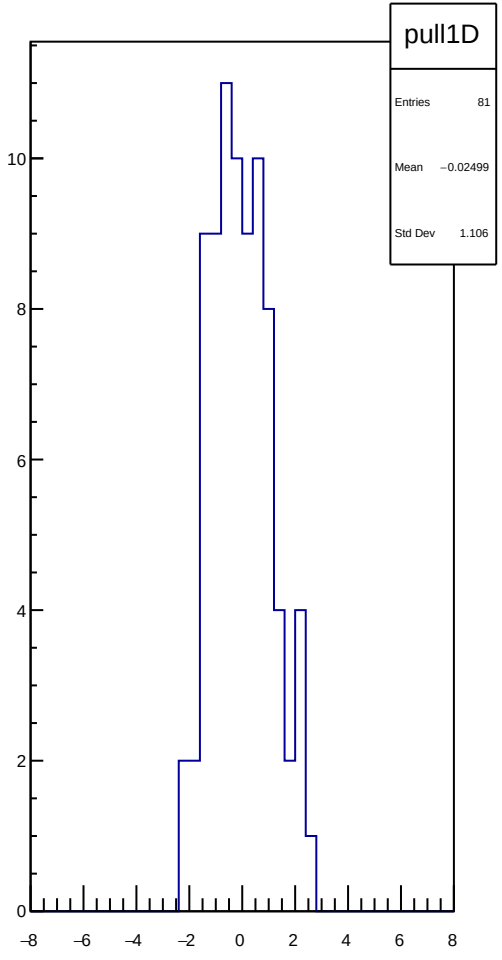

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.027e+06 / 80
p0 3.887e−12 ± 5.376e−15
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

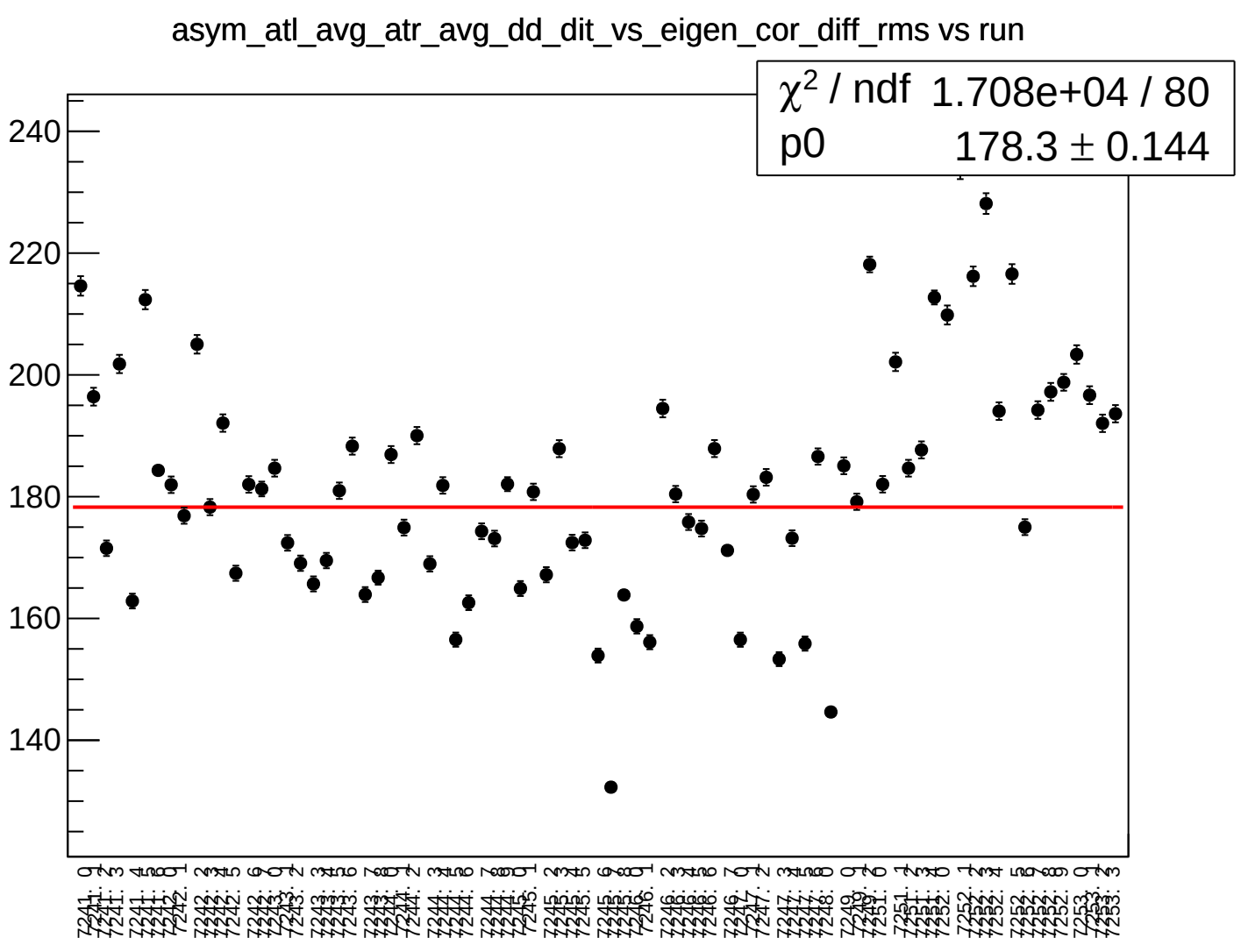

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 99.11 / 80
p0 0.07565 ± 0.2037
pull
Entries 81
Mean −88.11
Std Dev 0

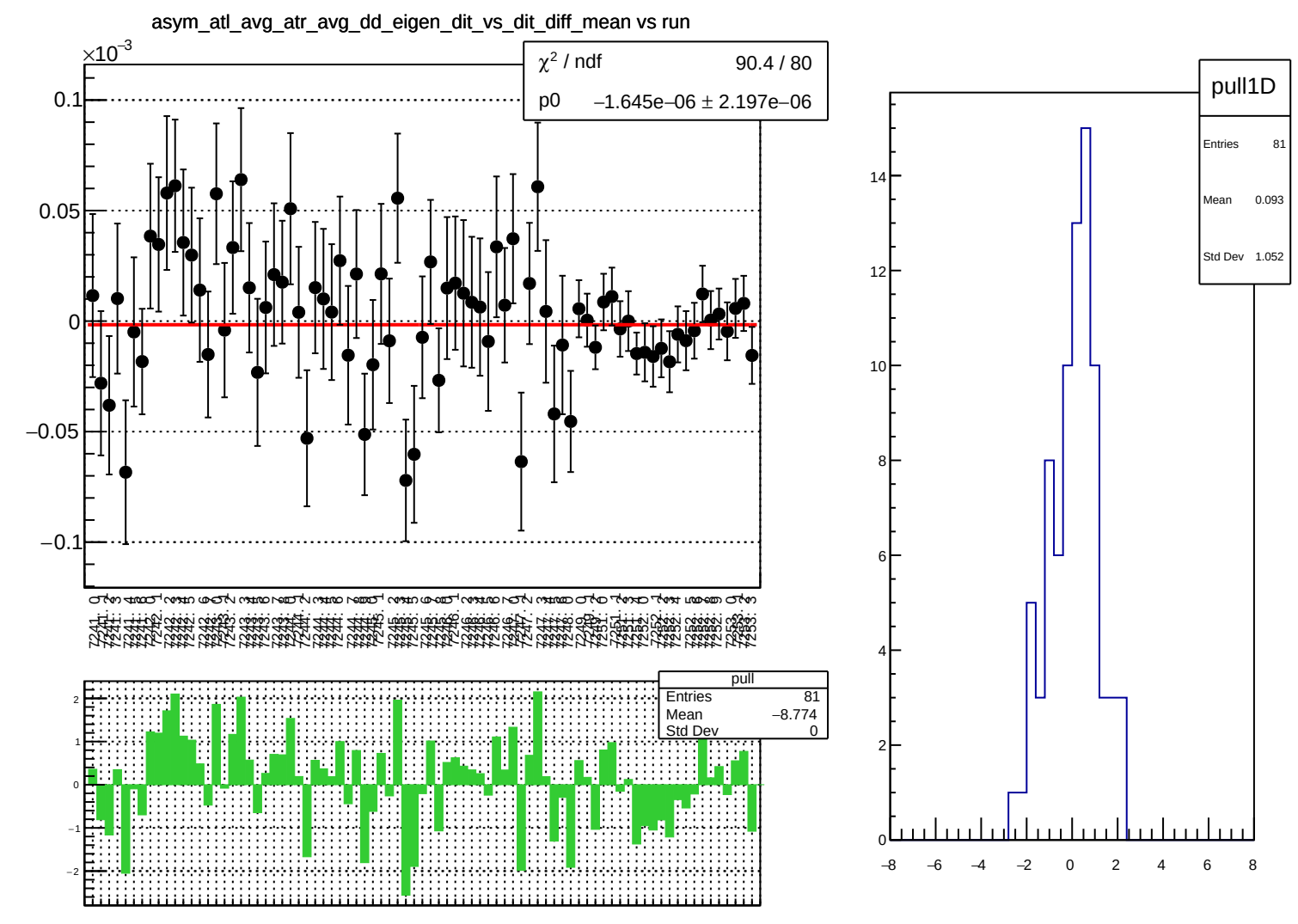

pull1D
Entries 81
Mean −0.02499
Std Dev 1.106

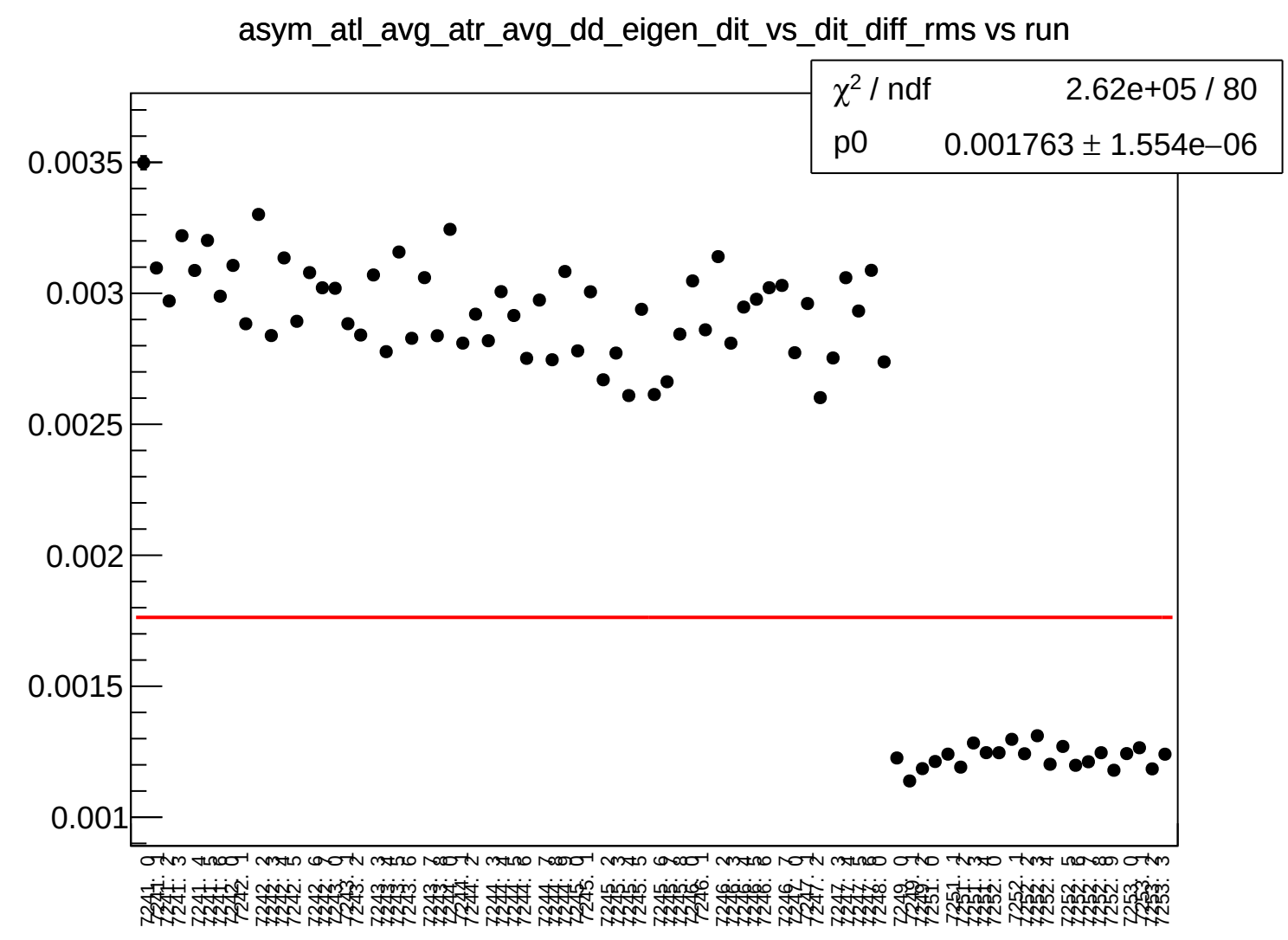

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.708e+04 / 80
p0 178.3 ± 0.144
240
220
200
180
160
140

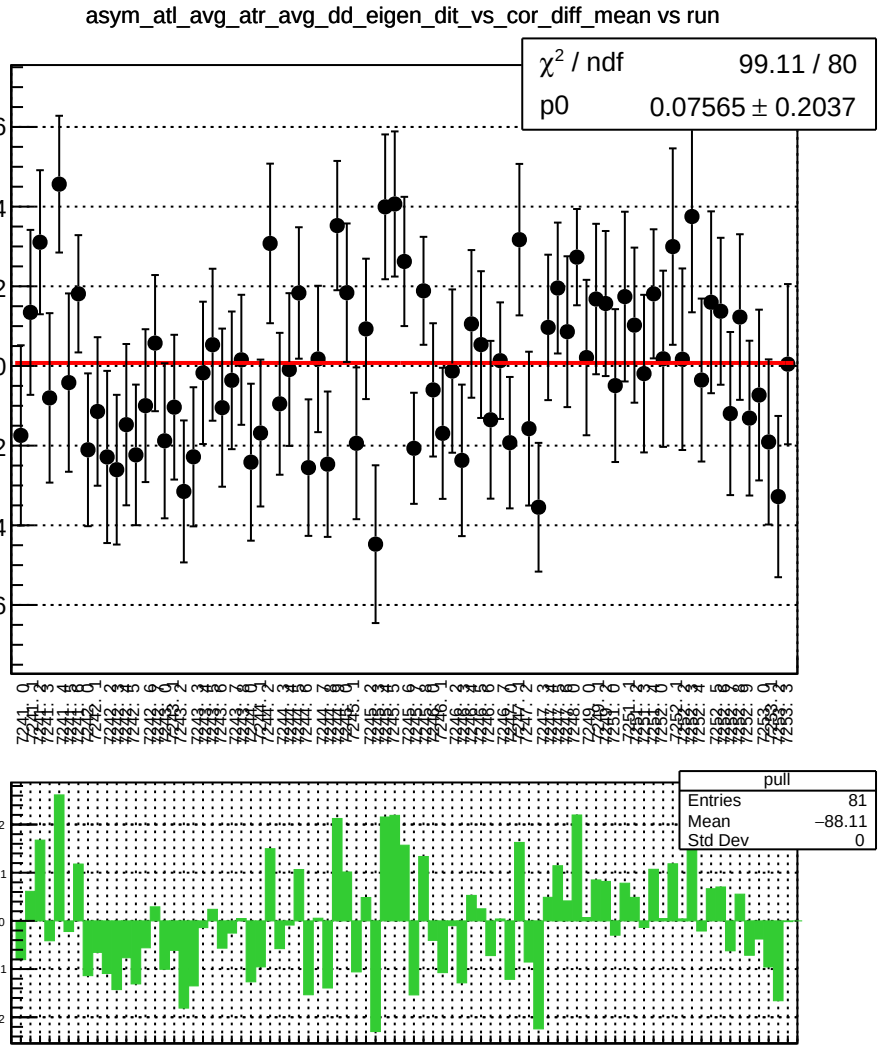

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.11 / 80
p0 0.07565 ± 0.2037
pull
Entries 81
Mean −88.11
Std Dev 0

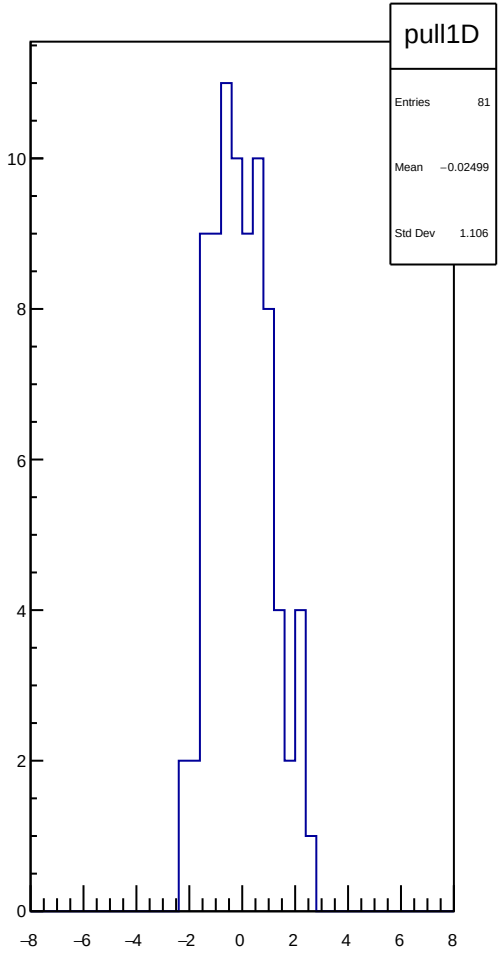

pull1D
Entries 81
Mean −0.02499
Std Dev 1.106

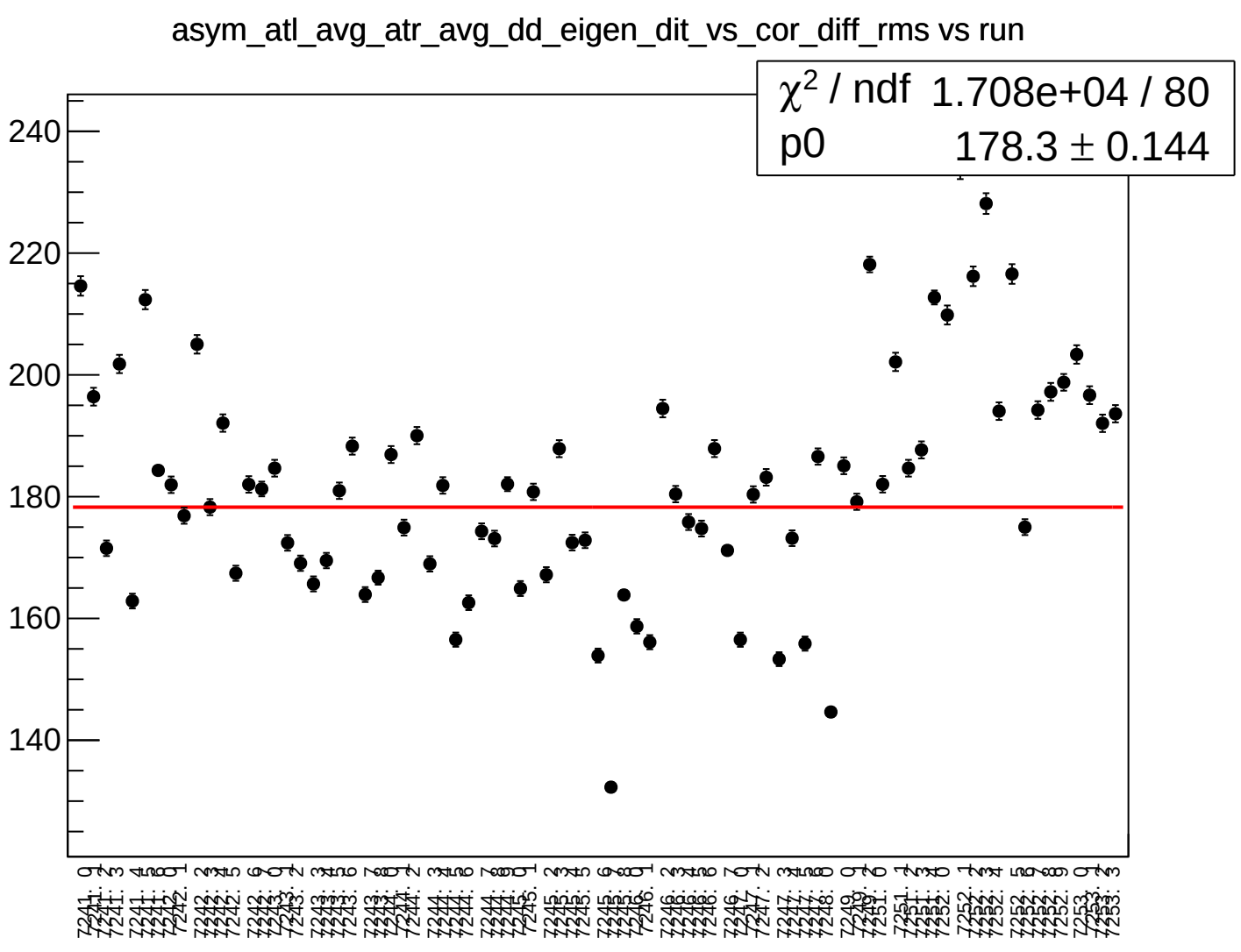

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.708e+04 / 80
p0 178.3 ± 0.144
240
220
200
180
160
140

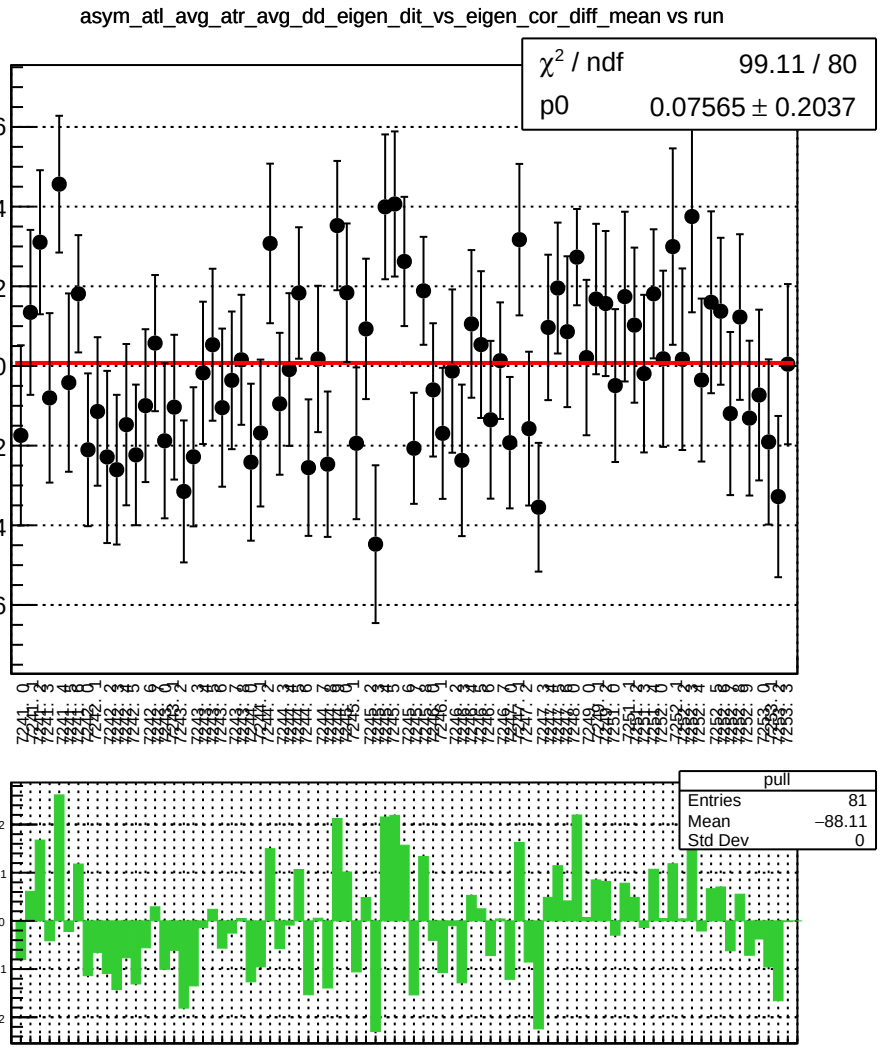

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.4 / 80
p0 −1.645e−06 ± 2.197e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 81
Mean −8.774
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 81
Mean 0.093
Std Dev 1.052
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

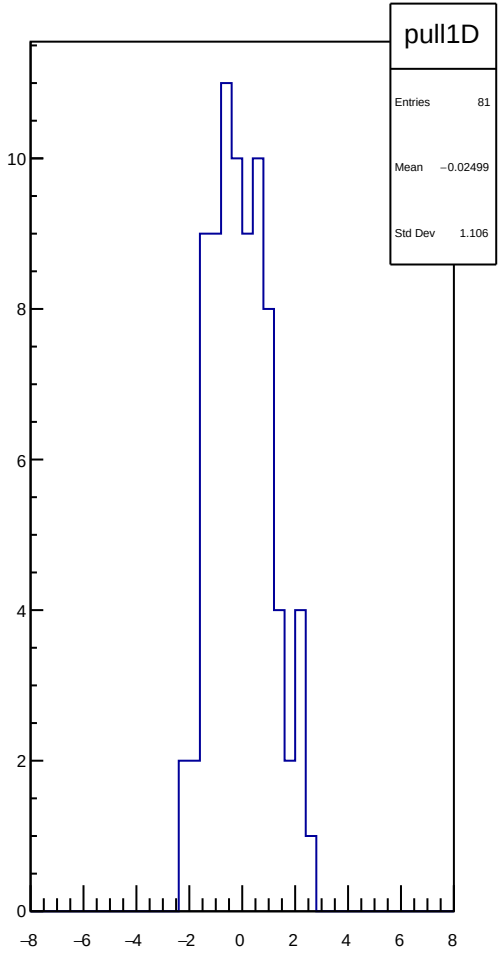

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.62e+05 / 80
p0 0.001763 ± 1.554e−06
0.0035
0.003
0.0025
0.002
0.0015
0.001

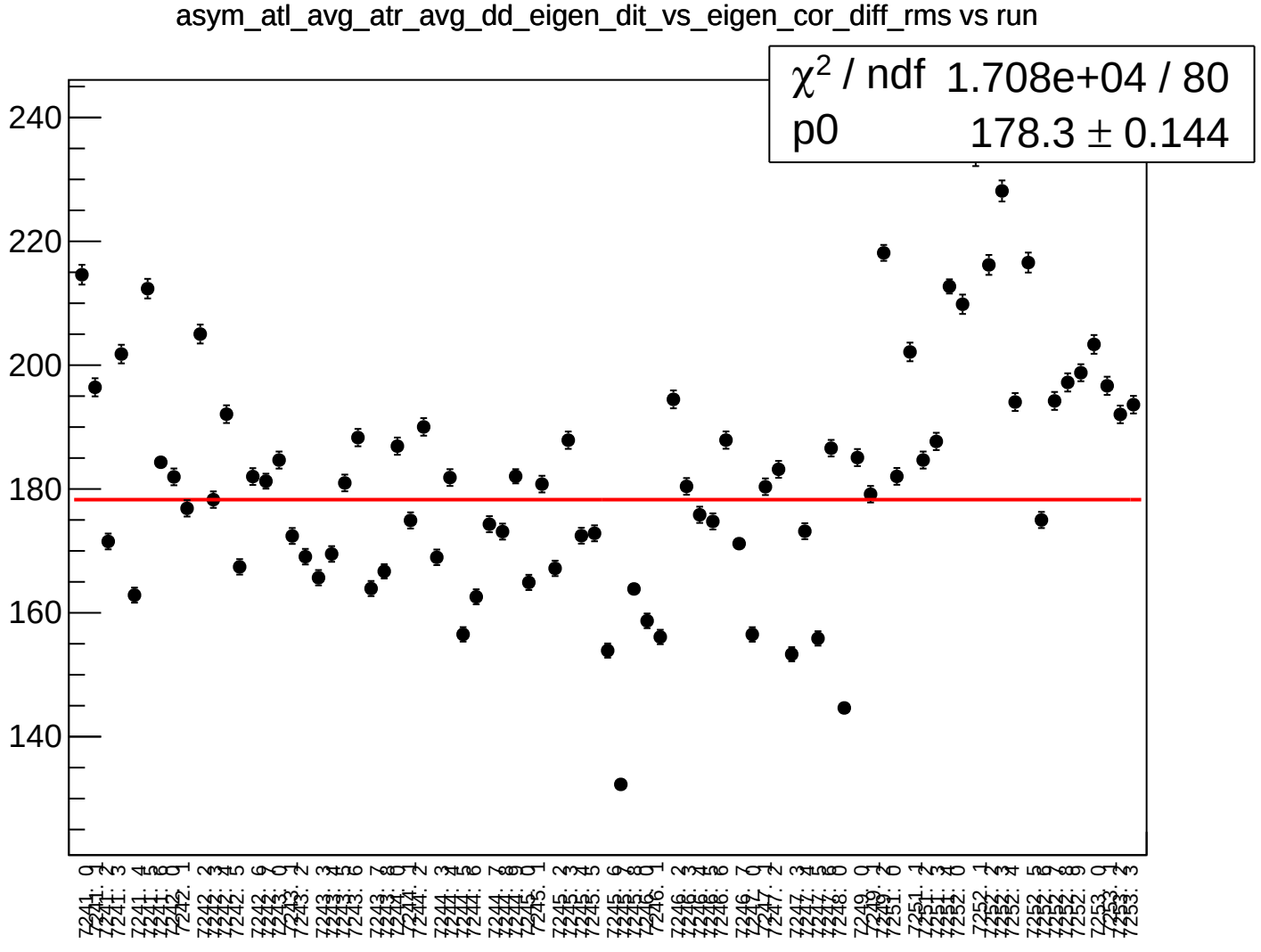

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.11 / 80
p0 0.07565 ± 0.2037
pull
Entries 81
Mean −88.11
Std Dev 0

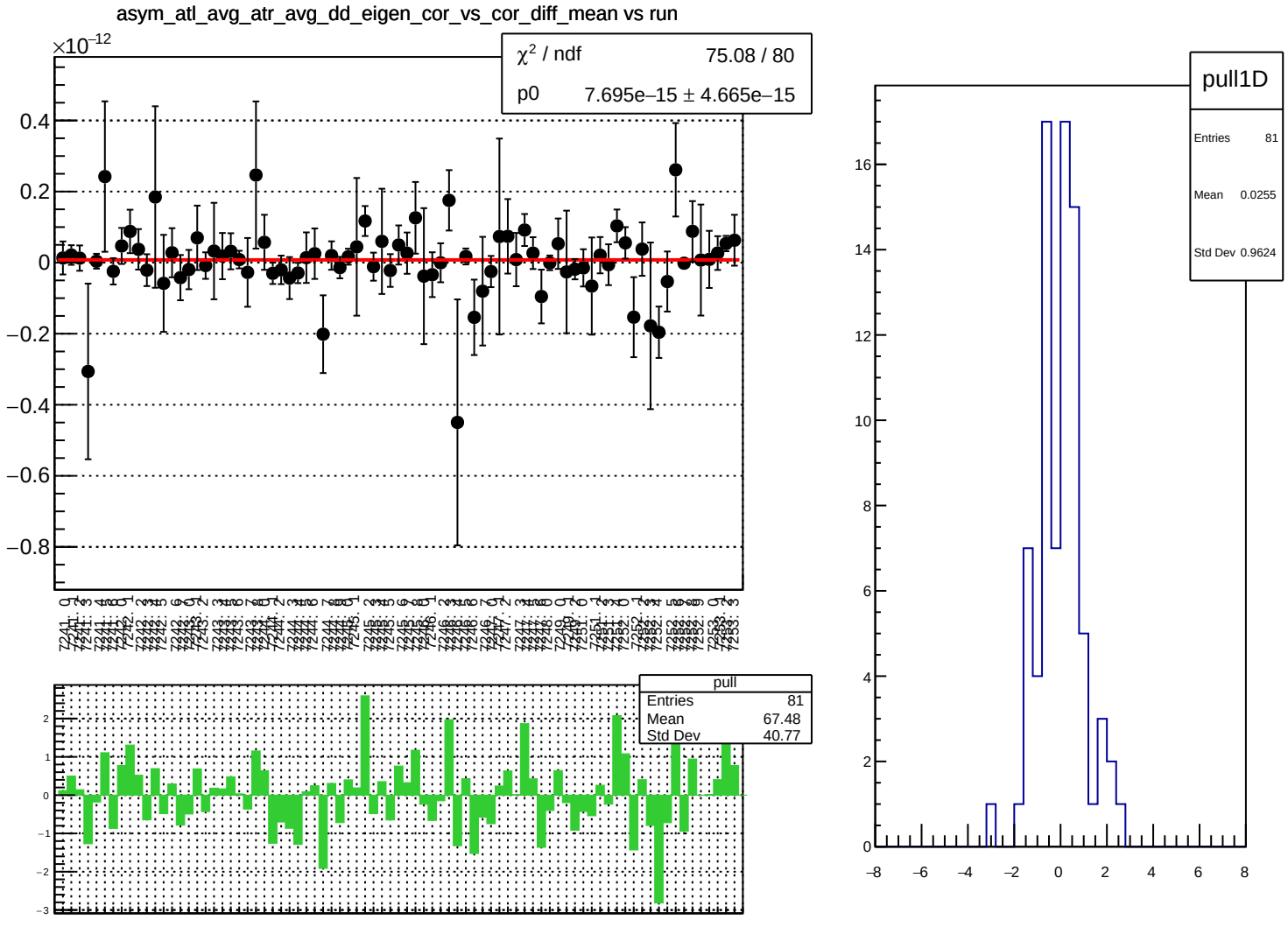

pull1D
Entries 81
Mean −0.02499
Std Dev 1.106

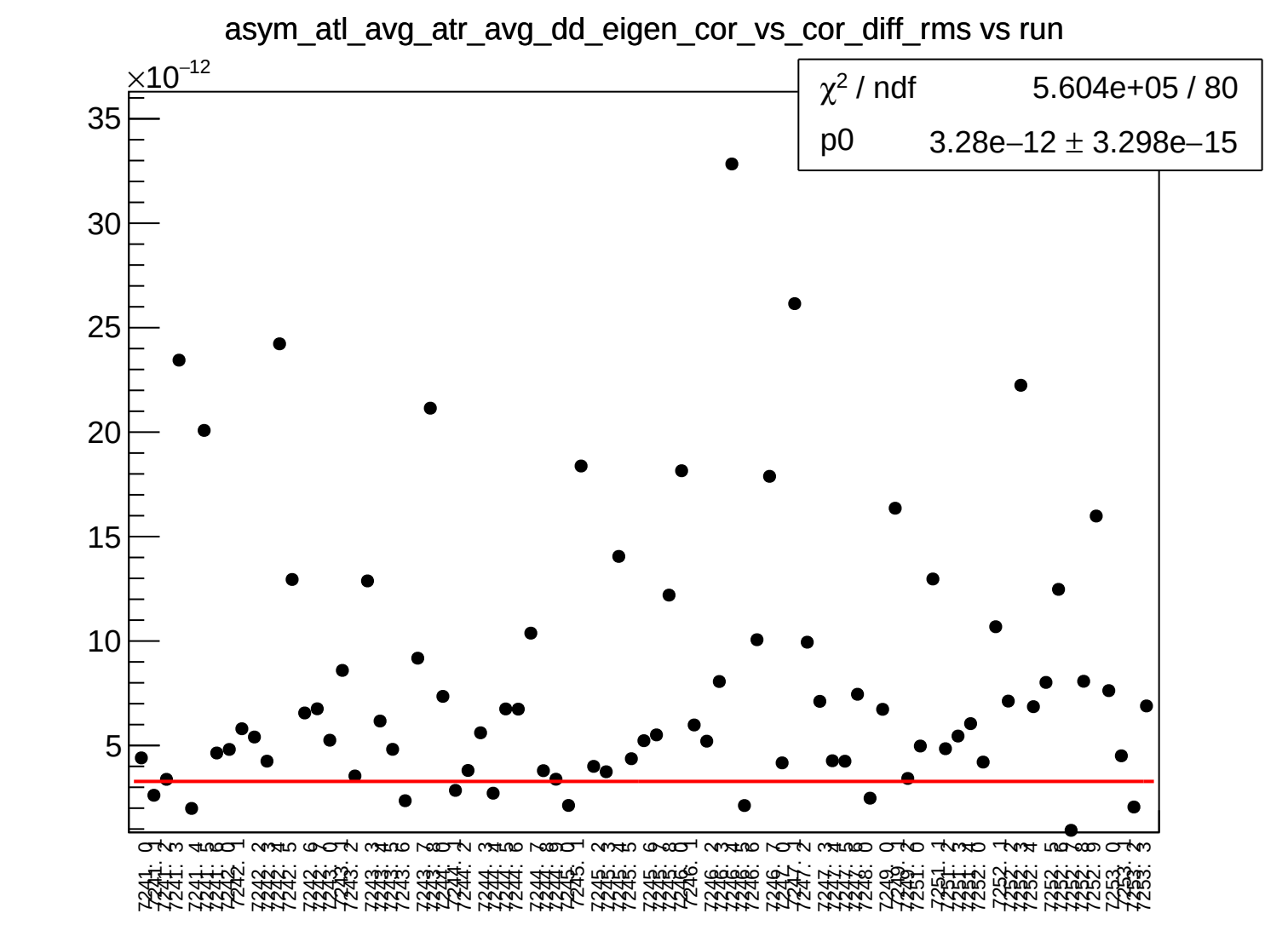

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.708e+04 / 80
p0 178.3 ± 0.144
240
220
200
180
160
140

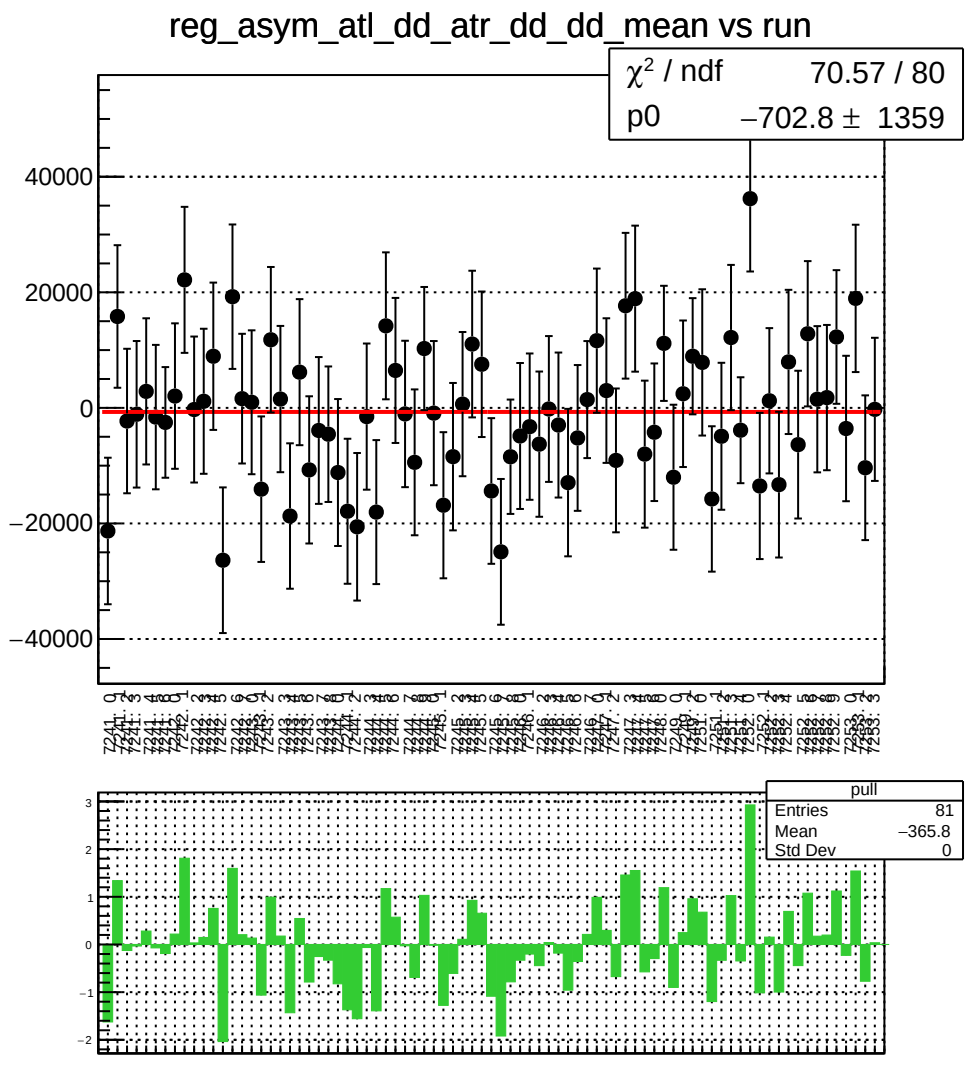

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.11 / 80
p0 0.07565 ± 0.2037
pull
Entries 81
Mean −88.11
Std Dev 0

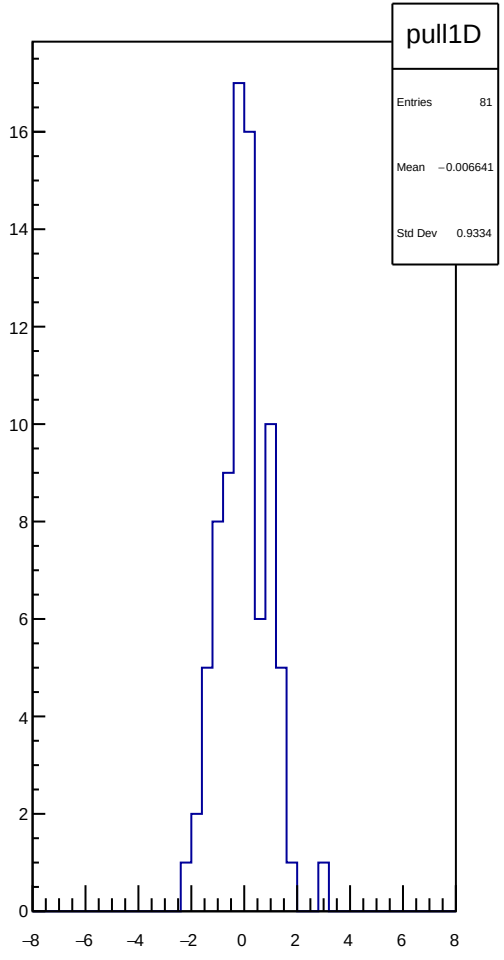

pull1D
Entries 81
Mean −0.02499
Std Dev 1.106

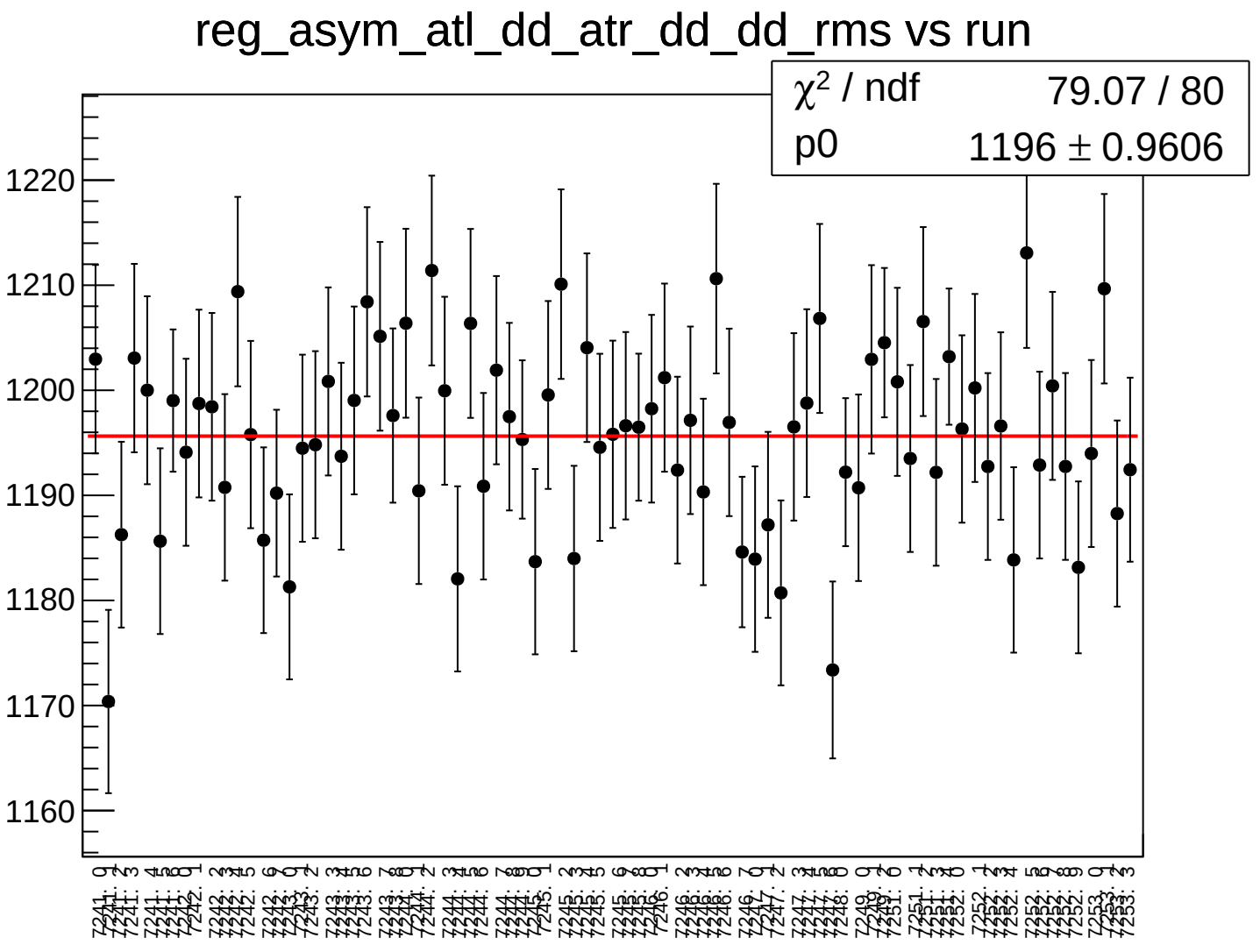

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.708e+04 / 80
p0 178.3 ± 0.144
240
220
200
180
160
140

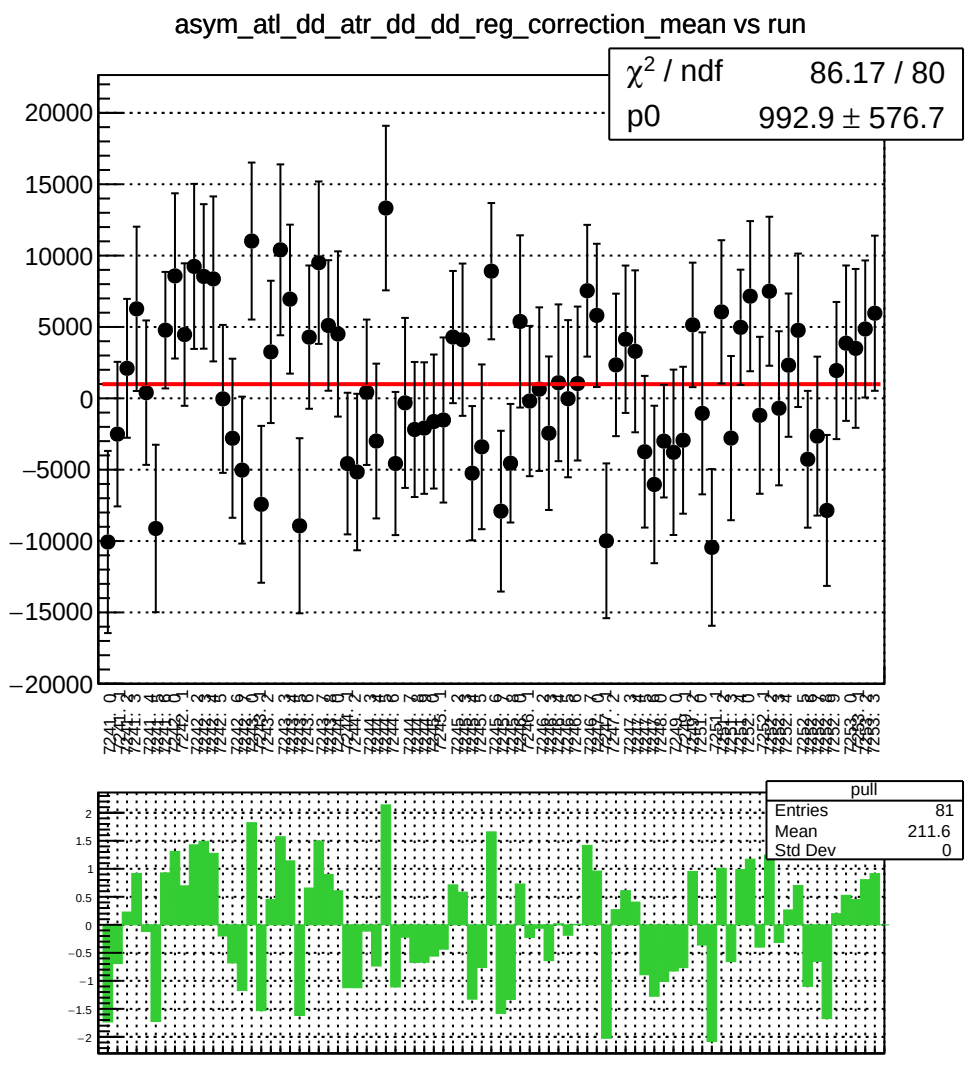

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 75.08 / 80
p0 7.695e−15 ± 4.665e−15
pull
Entries 81
Mean 67.48
Std Dev 40.77
pull1D
Entries 81
Mean 0.0255
Std Dev 0.9624

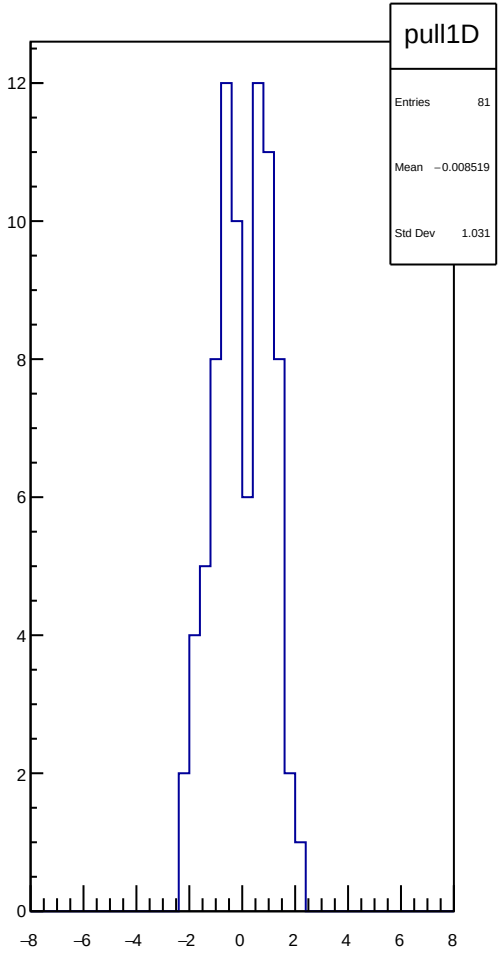

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.604e+05 / 80
p0 3.28e−12 ± 3.298e−15
35
30
25
20
15
10
5

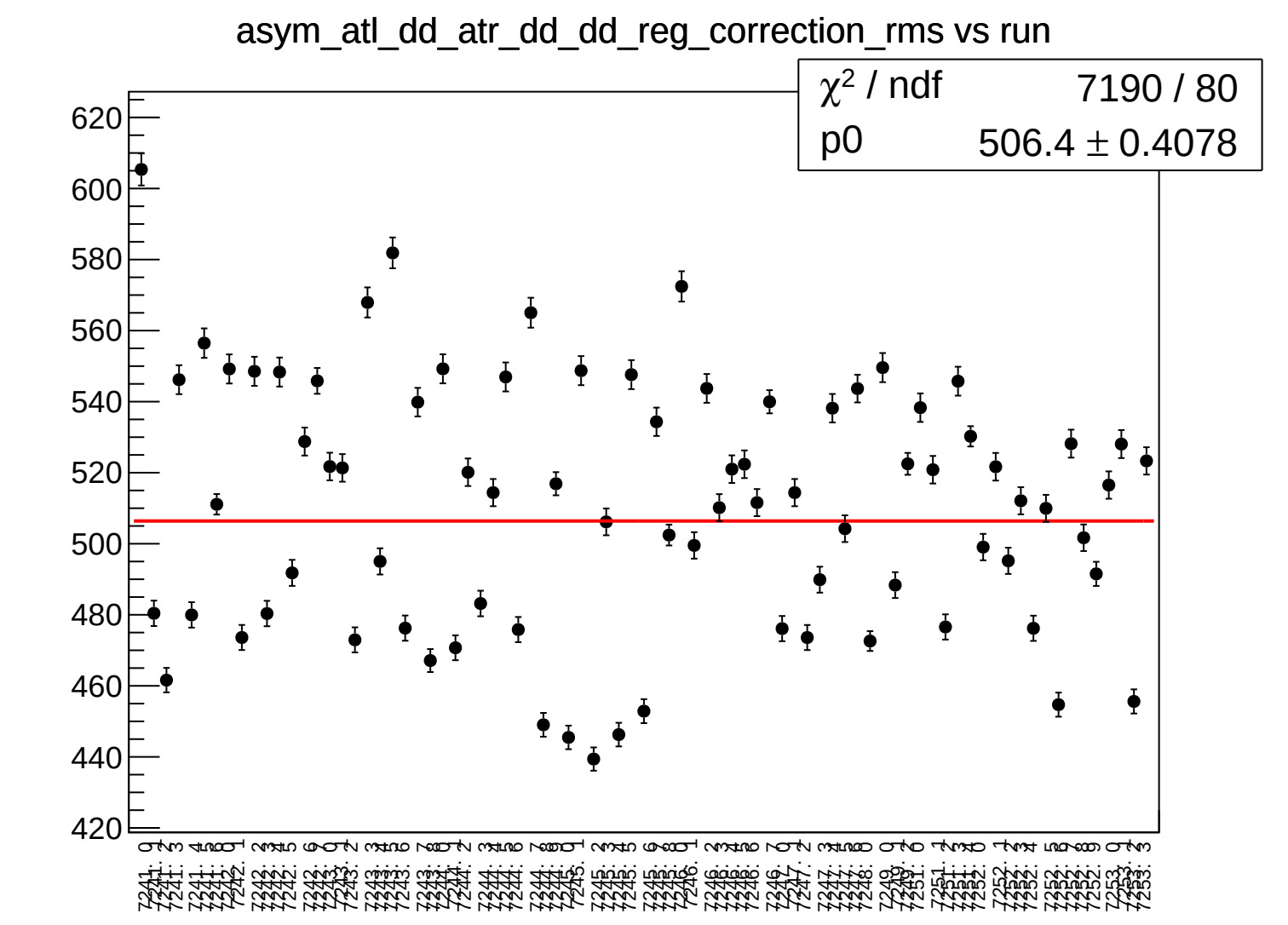

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 70.57 / 80
p0 −702.8 ± 1359
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −365.8
Std Dev 0
3
2
1
0
−1
−2

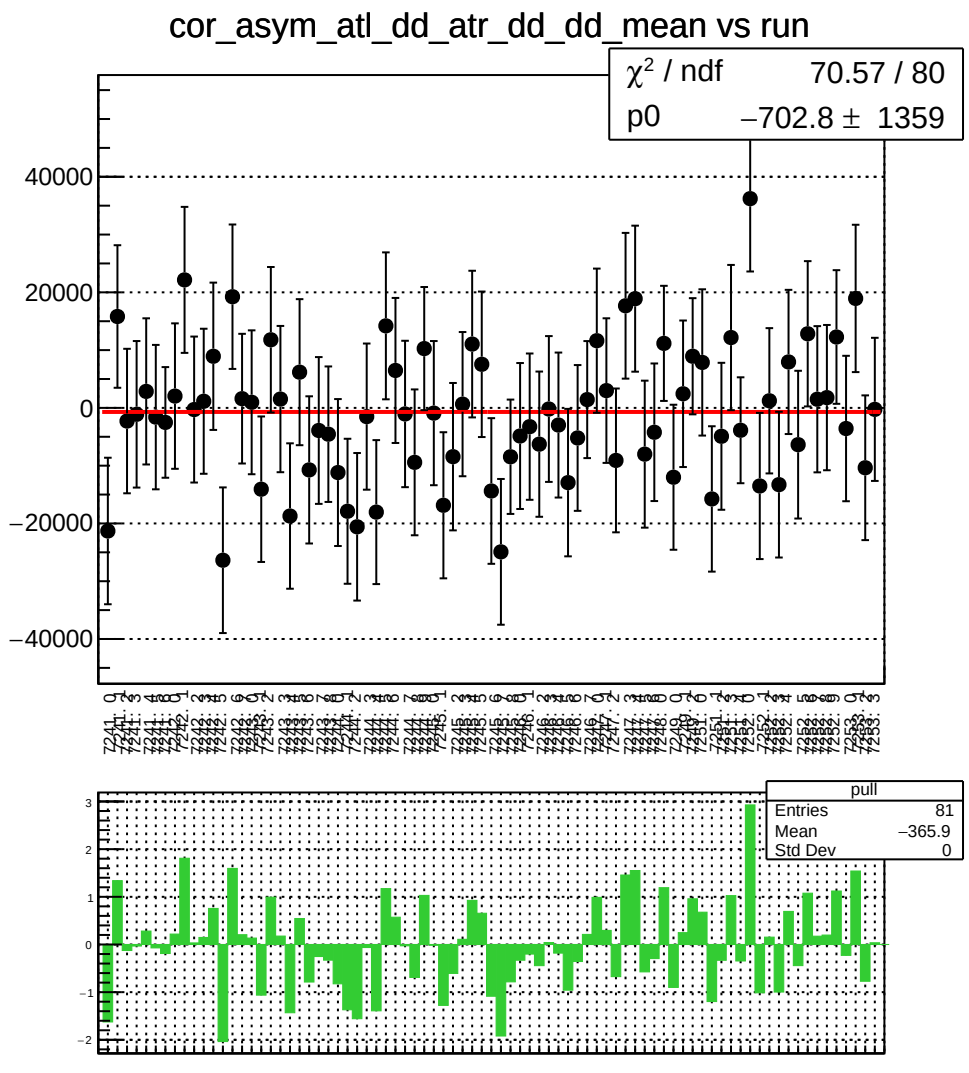

pull1D
Entries 81
Mean −0.006641
Std Dev 0.9334
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

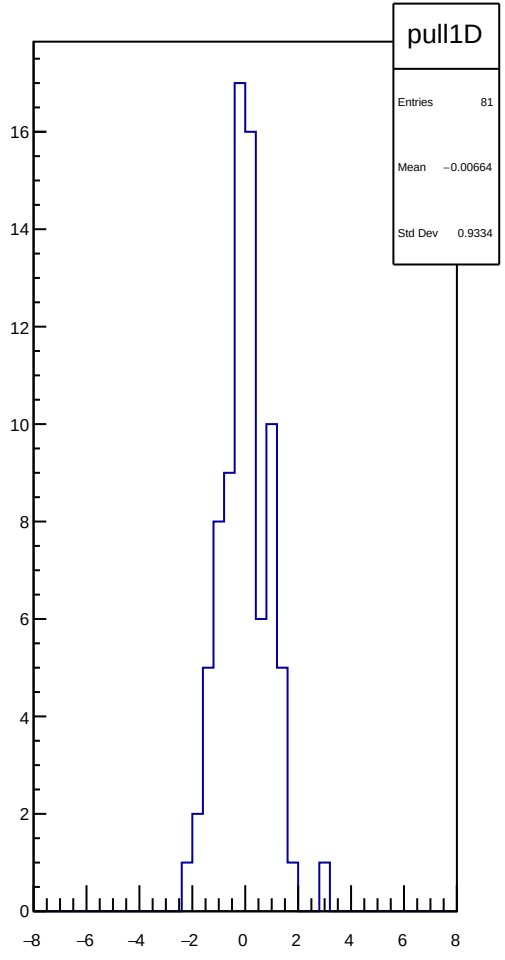

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 79.07 / 80
p0 1196 ± 0.9606
1220
1210
1200
1190
1180
1170
1160

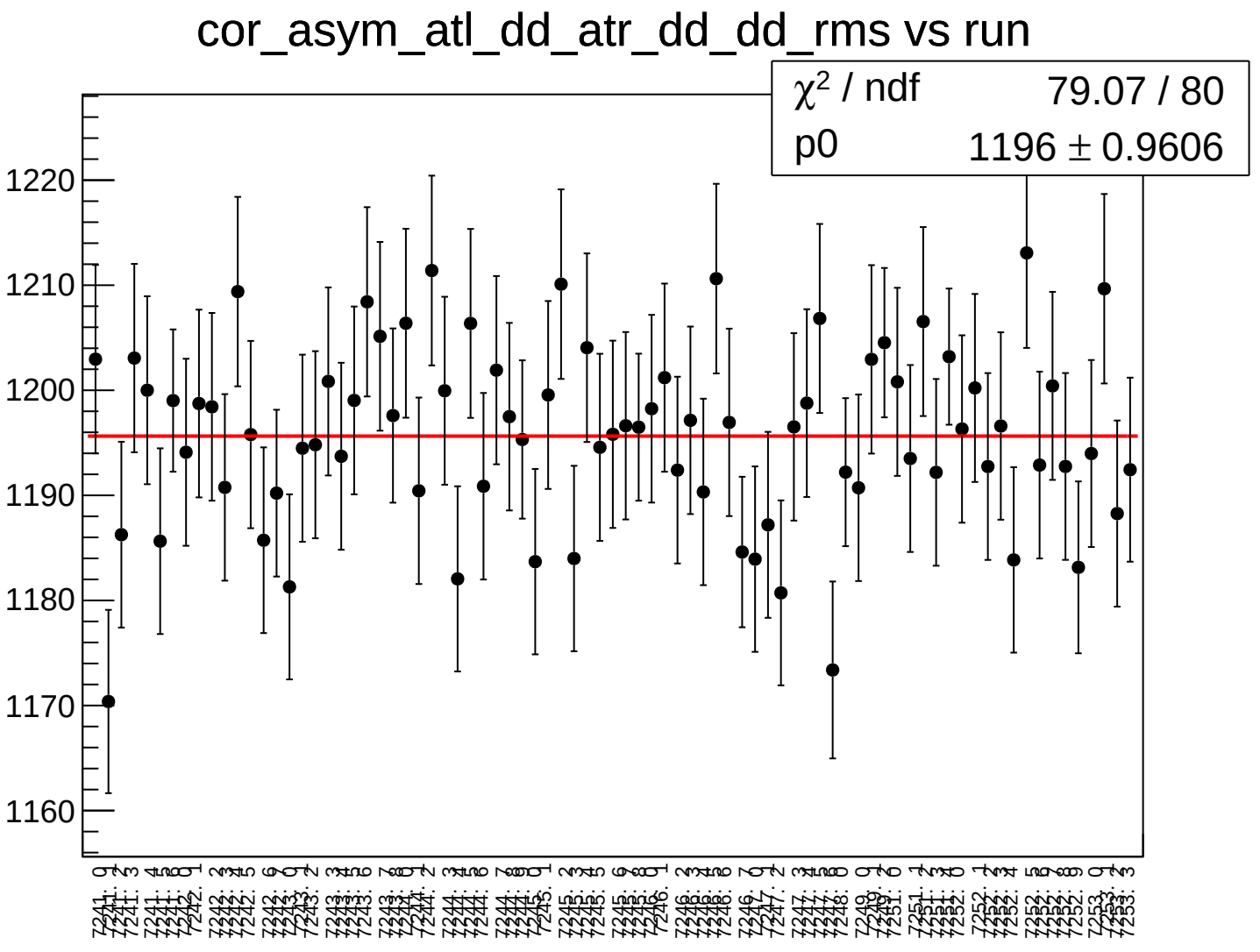

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 86.17 / 80
p0 992.9 ± 576.7
pull
Entries 81
Mean 211.6
Std Dev 0

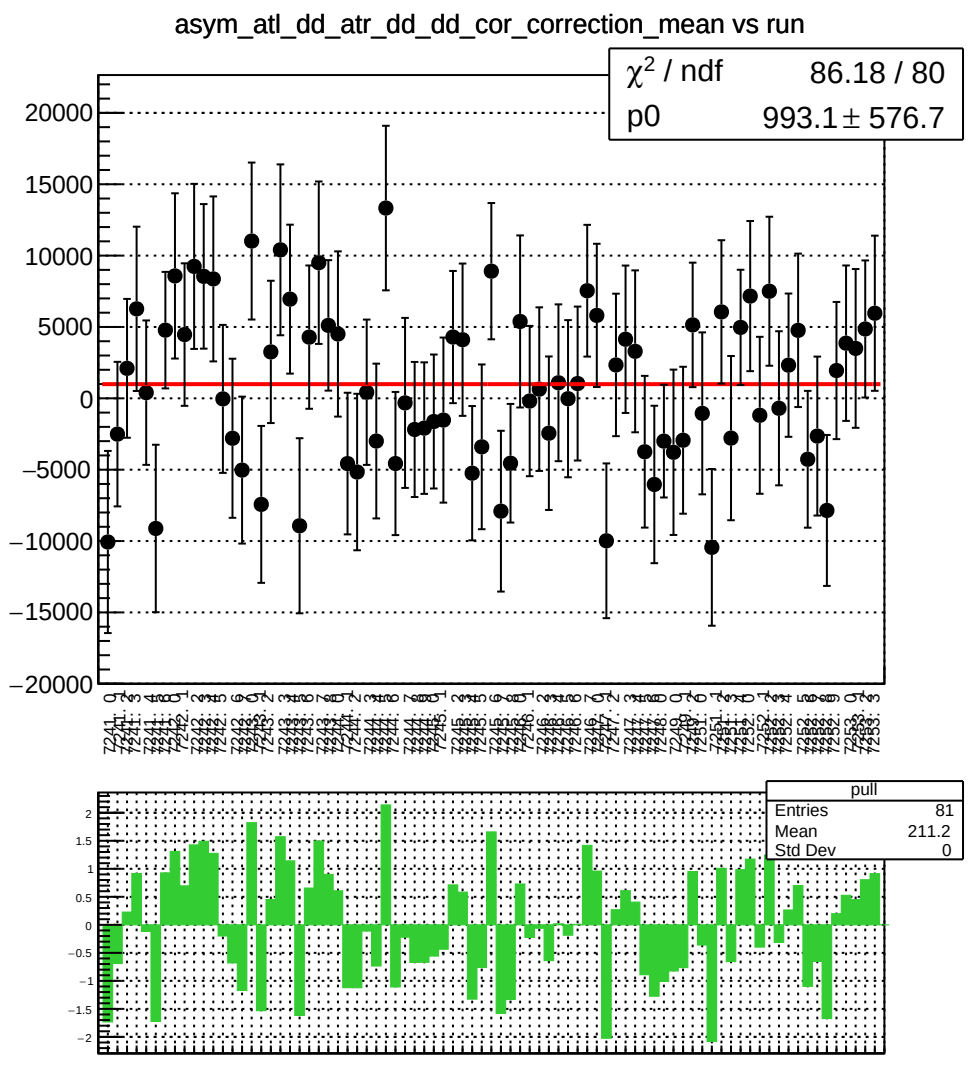

pull1D
Entries 81
Mean −0.008519
Std Dev 1.031

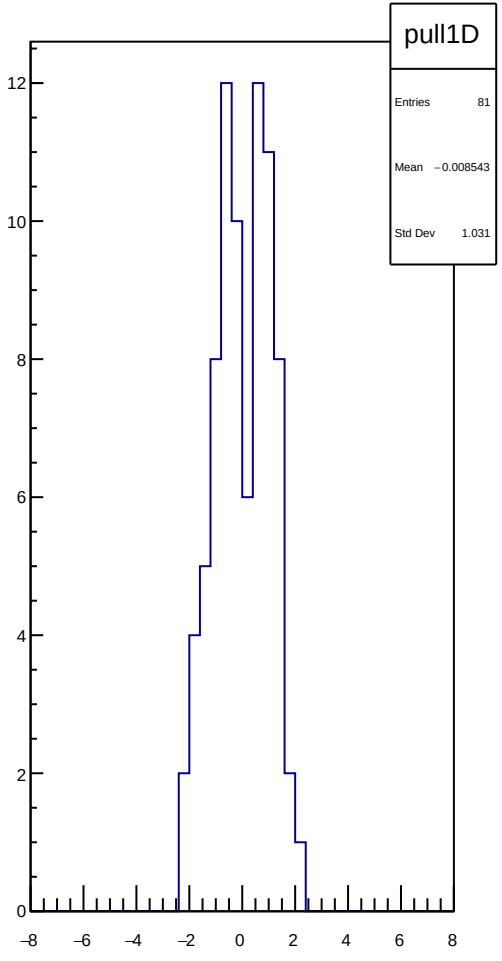

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 7190 / 80
p0 506.4 ± 0.4078
620
600
580
560
540
520
500
480
460
440
420

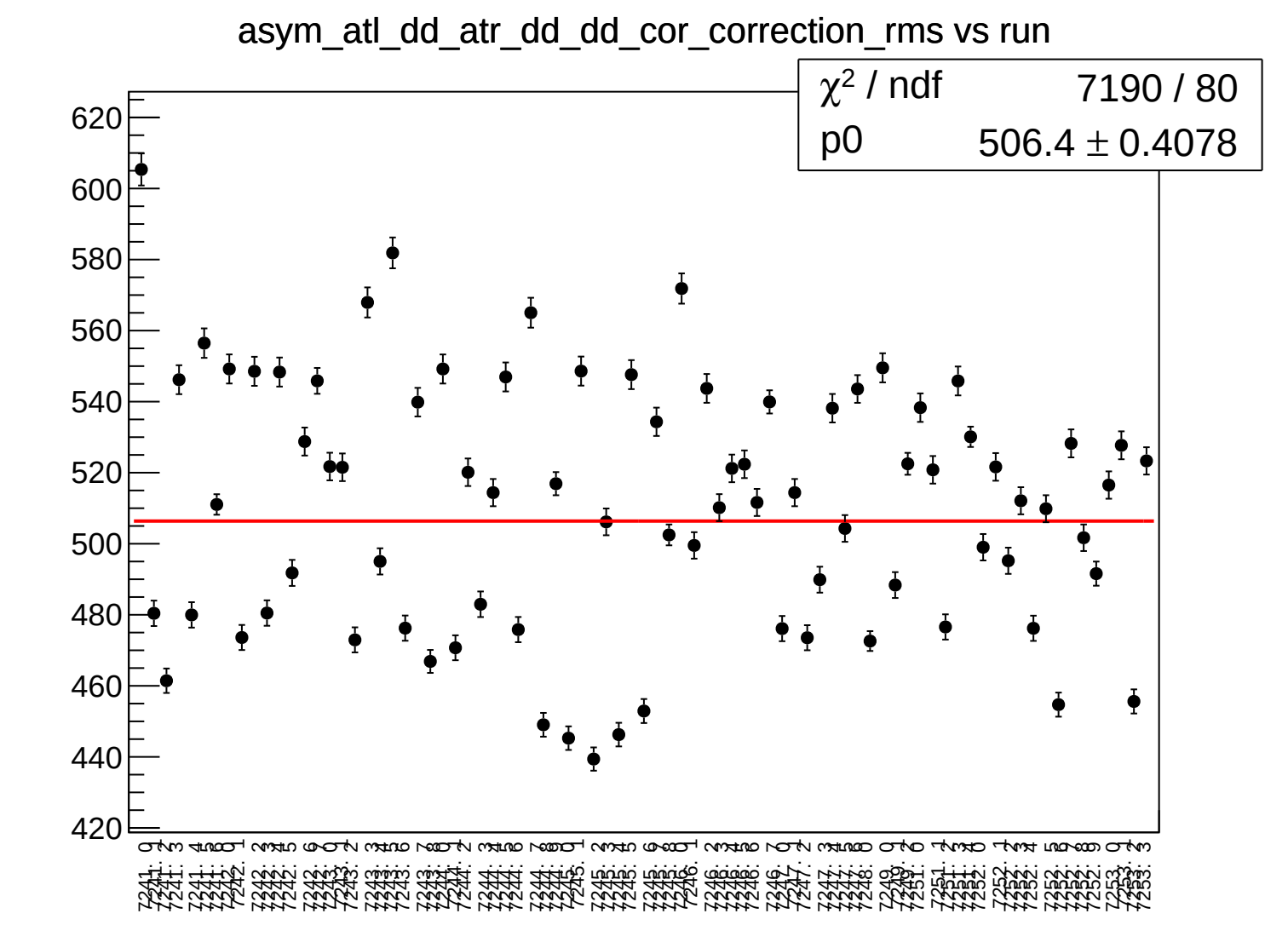

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 70.57 / 80
p0 −702.8 ± 1359
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −365.9
Std Dev 0
3
2
1
0
−1
−2

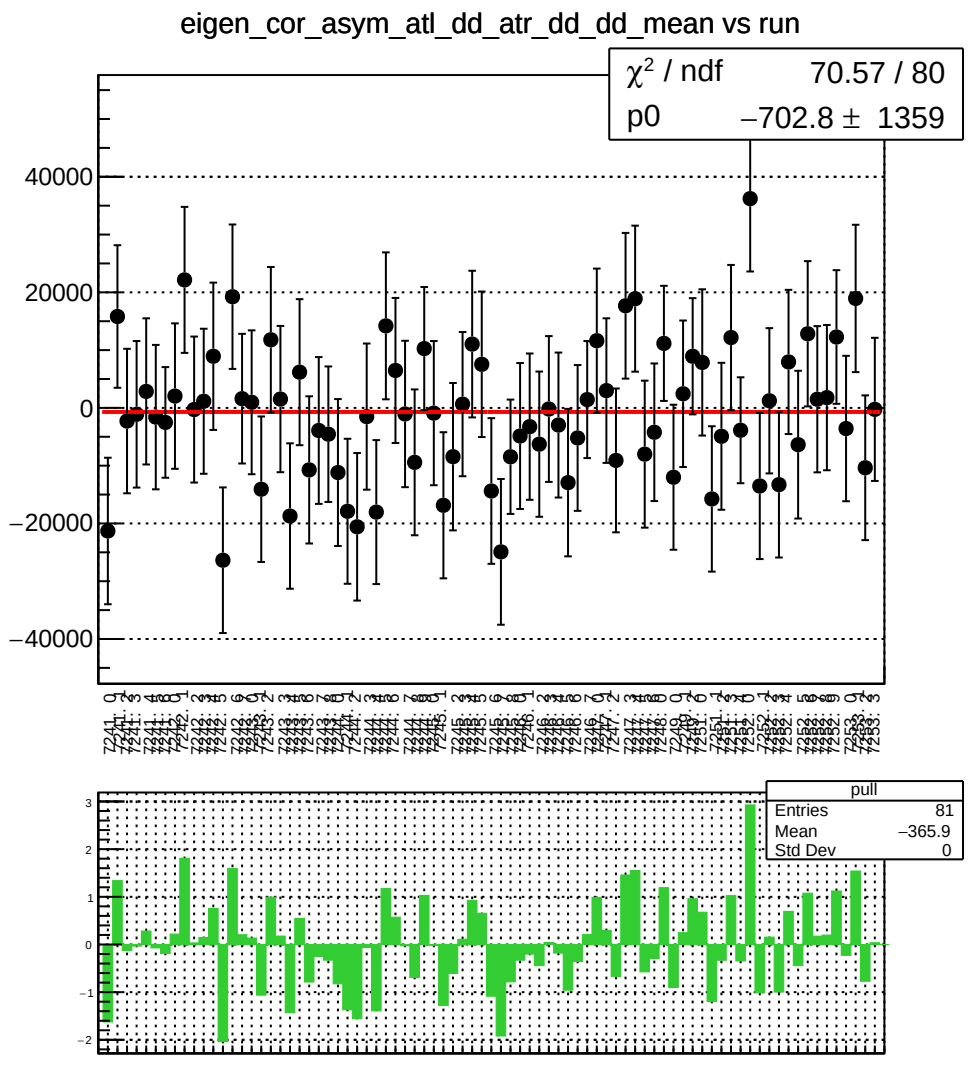

pull1D
Entries 81
Mean −0.00664
Std Dev 0.9334
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

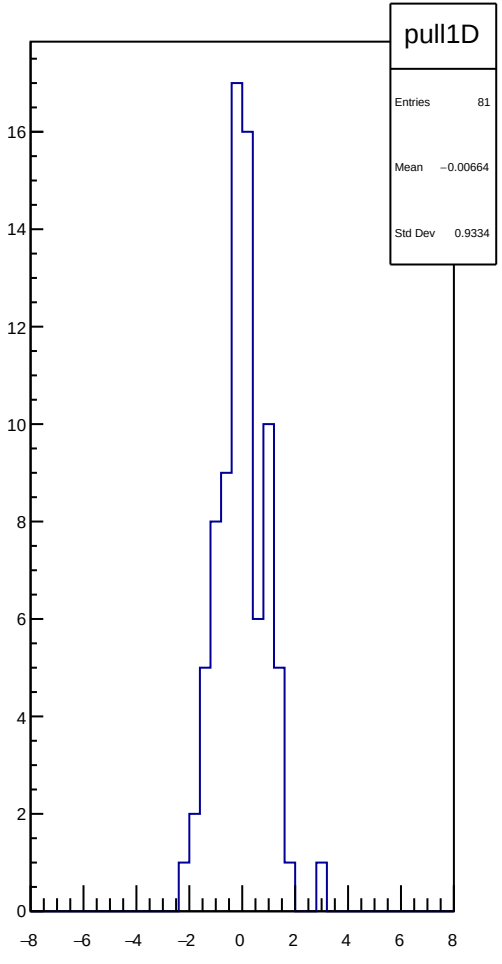

cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 79.07 / 80
p0 1196 ± 0.9606
1220
1210
1200
1190
1180
1170
1160

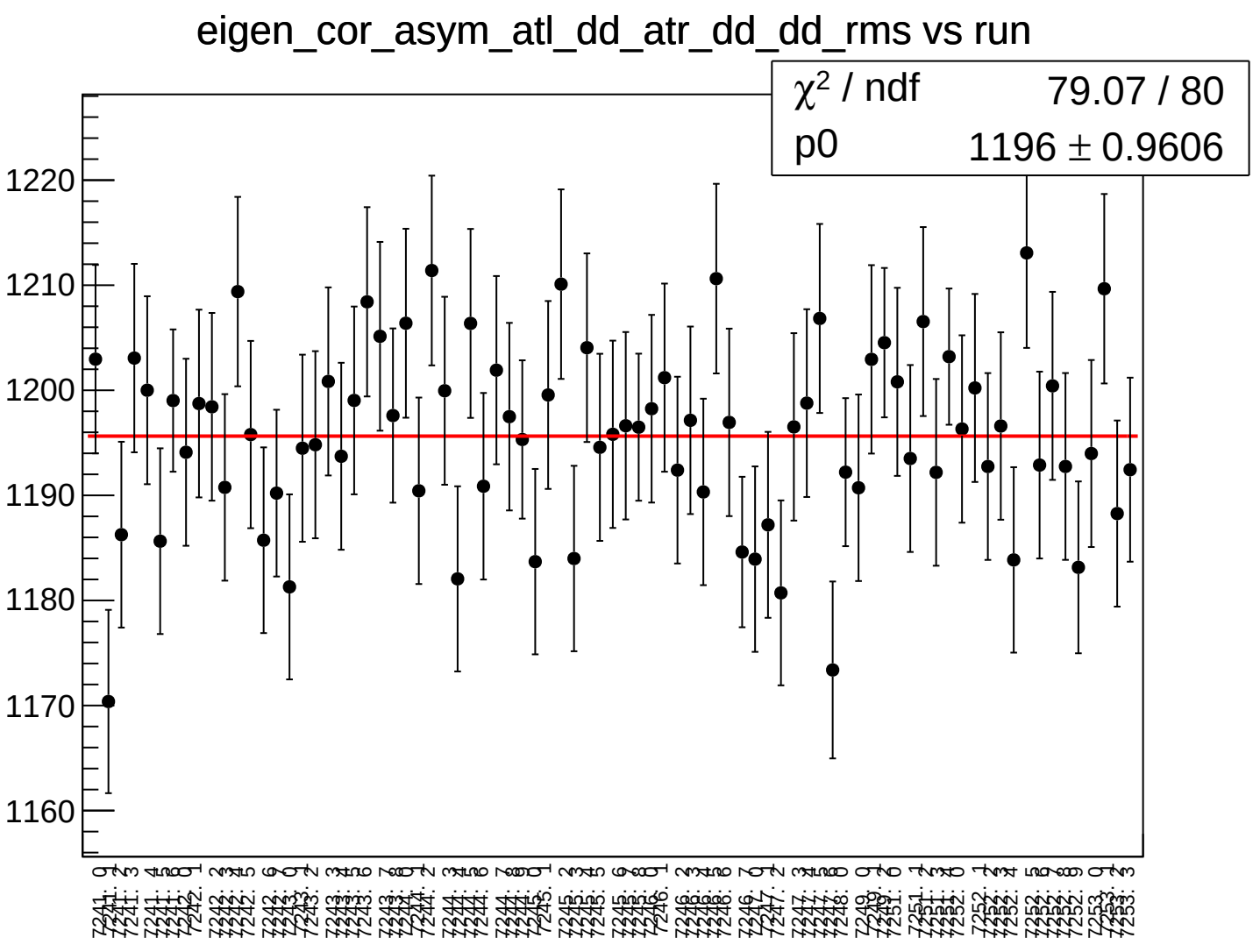

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 86.18 / 80
p0 993.1 ± 576.7
pull
Entries 81
Mean 211.2
Std Dev 0

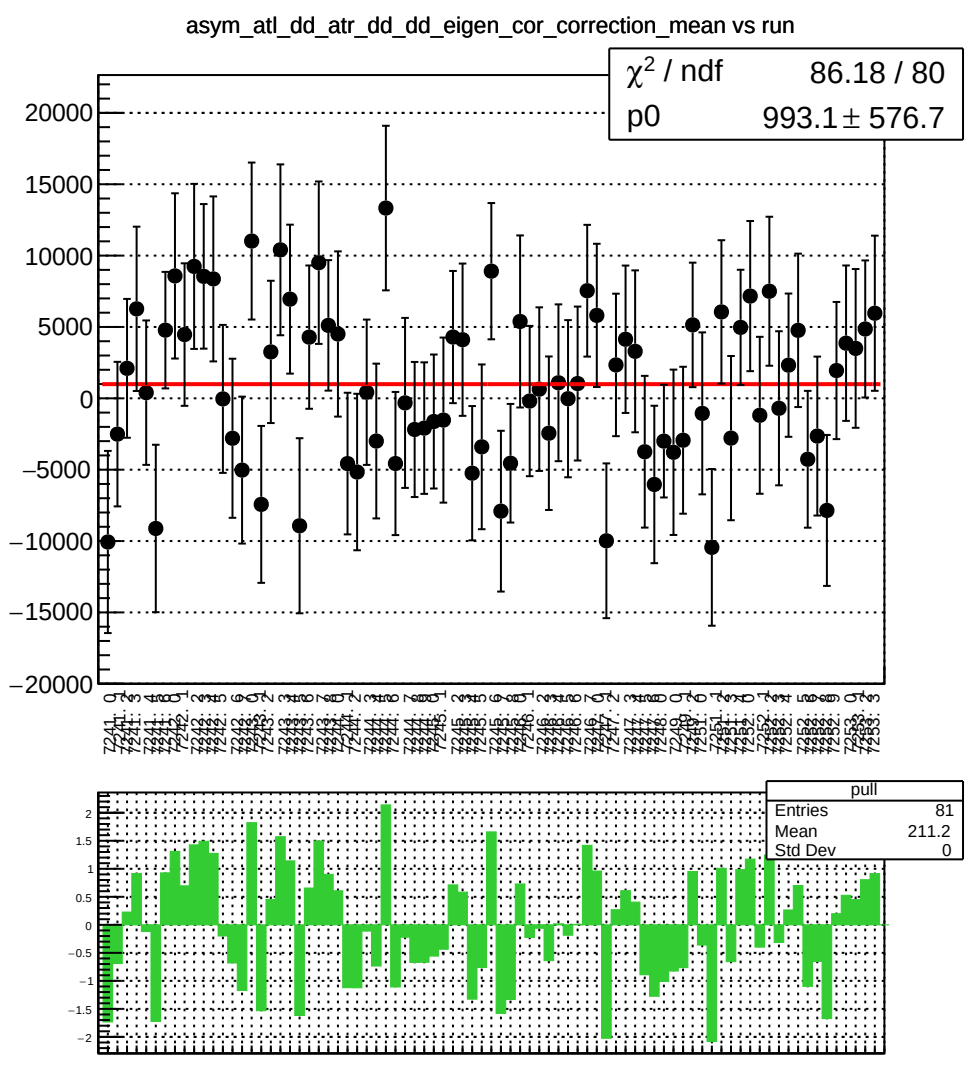

pull1D
Entries 81
Mean −0.008543
Std Dev 1.031

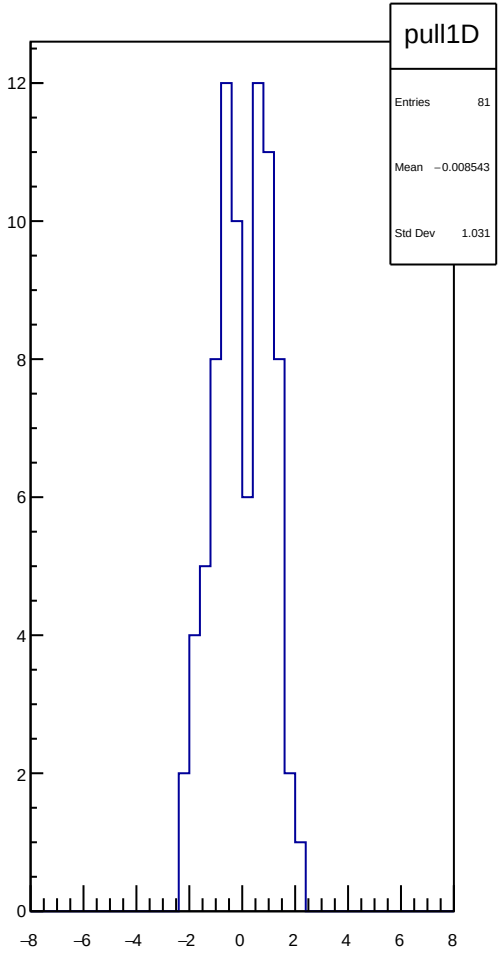

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 7190 / 80
p0 506.4 ± 0.4078
620
600
580
560
540
520
500
480
460
440
420

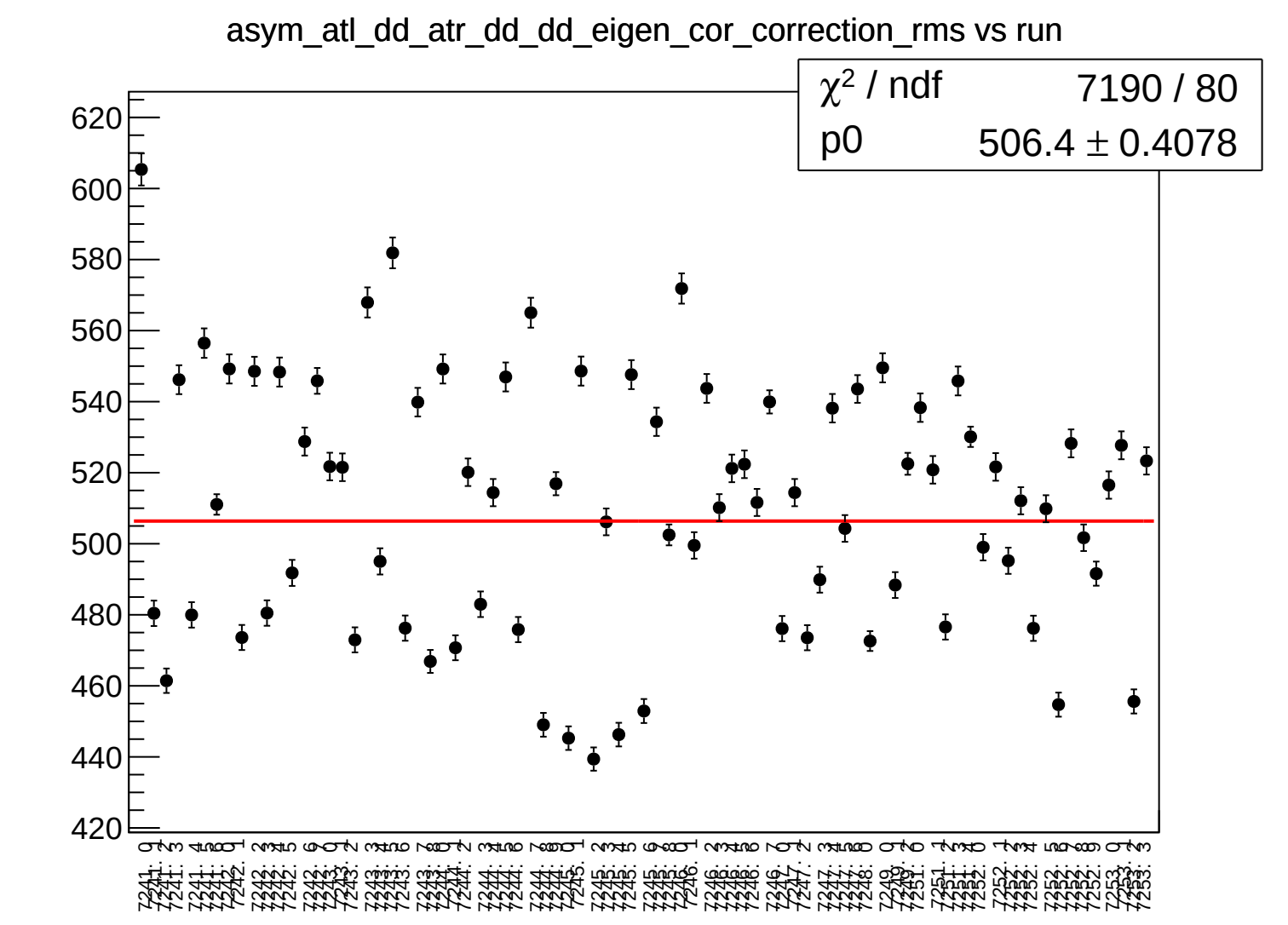

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 70.57 / 80
p0 −702.8 ± 1359
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −365.9
Std Dev 0
3
2
1
0
−1
−2

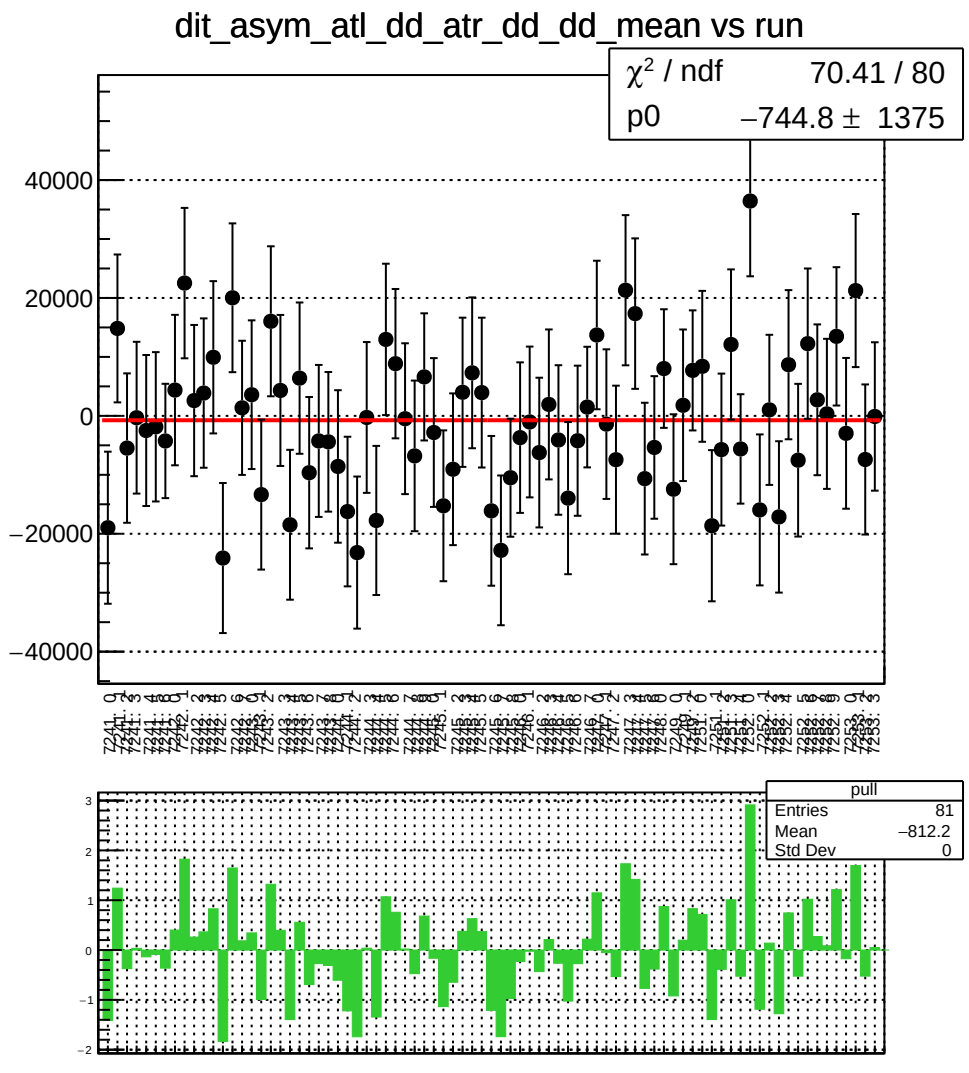

pull1D
Entries 81
Mean −0.00664
Std Dev 0.9334
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

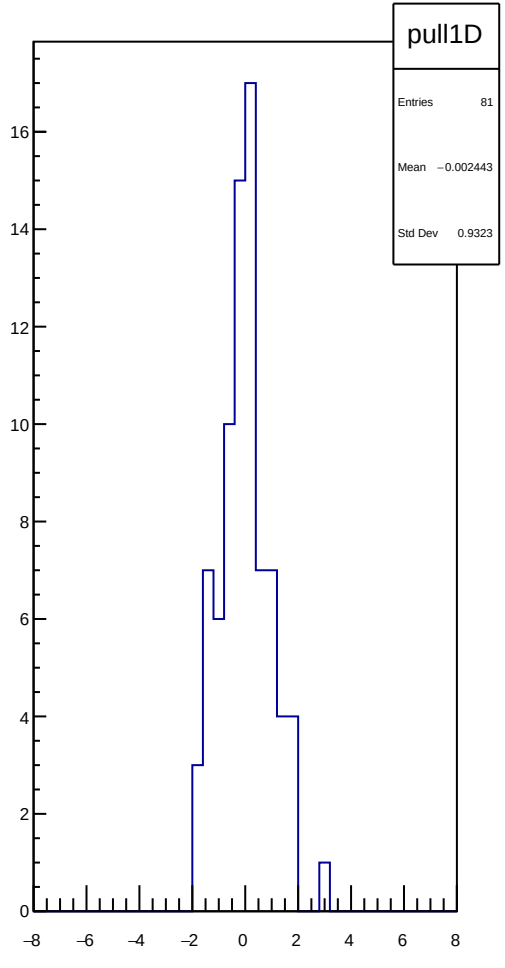

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 79.07 / 80
p0 1196 ± 0.9606
1220
1210
1200
1190
1180
1170
1160

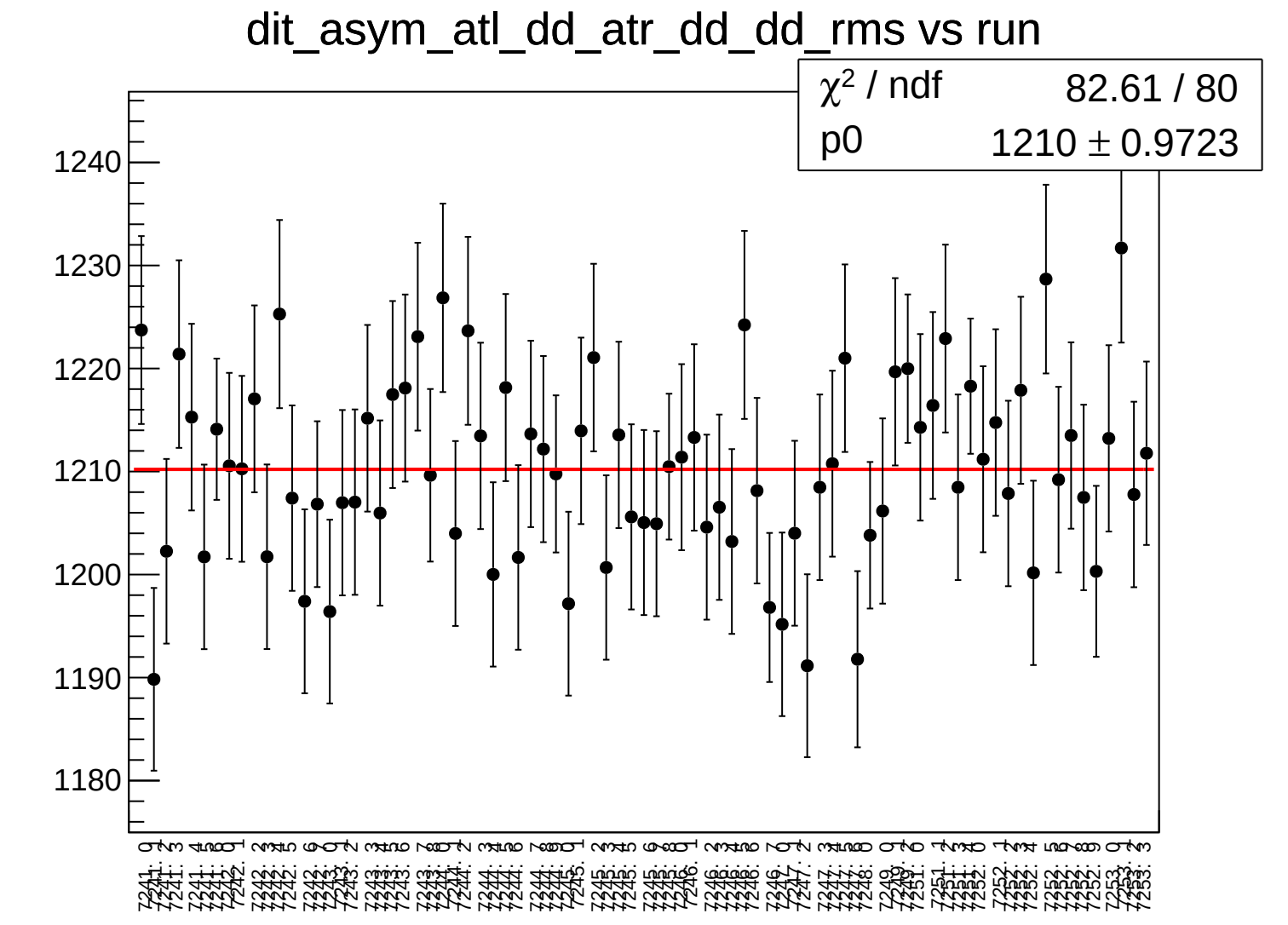

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 86.18 / 80
p0 993.1 ± 576.7
pull
Entries 81
Mean 211.2
Std Dev 0

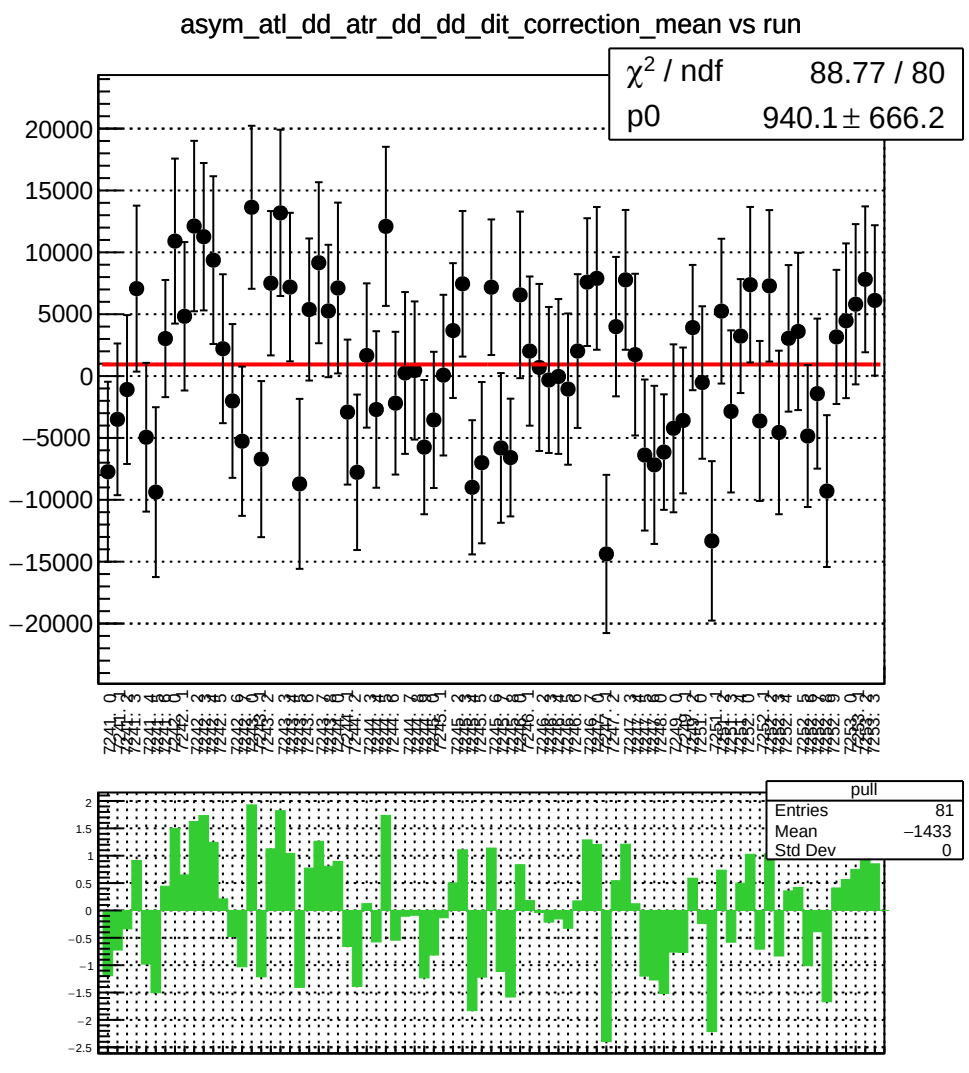

pull1D
Entries 81
Mean −0.008543
Std Dev 1.031

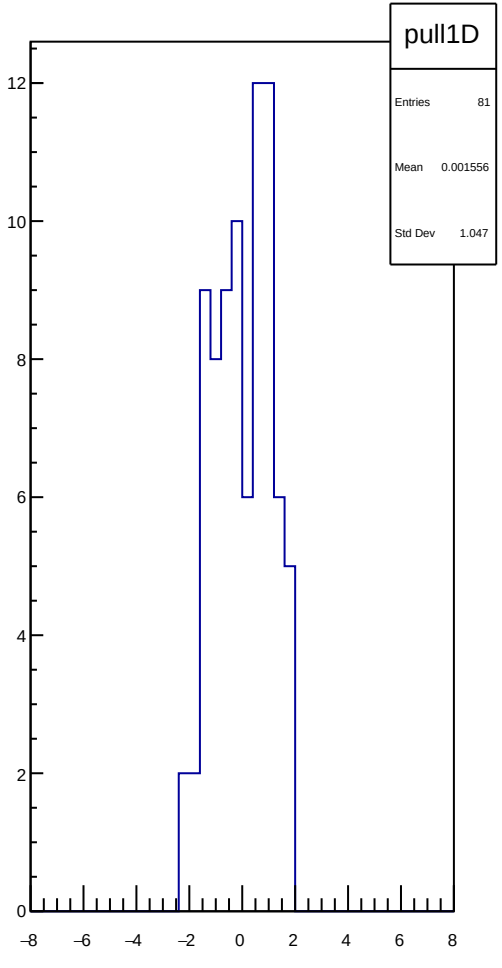

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 7190 / 80
p0 506.4 ± 0.4078
620
600
580
560
540
520
500
480
460
440
420

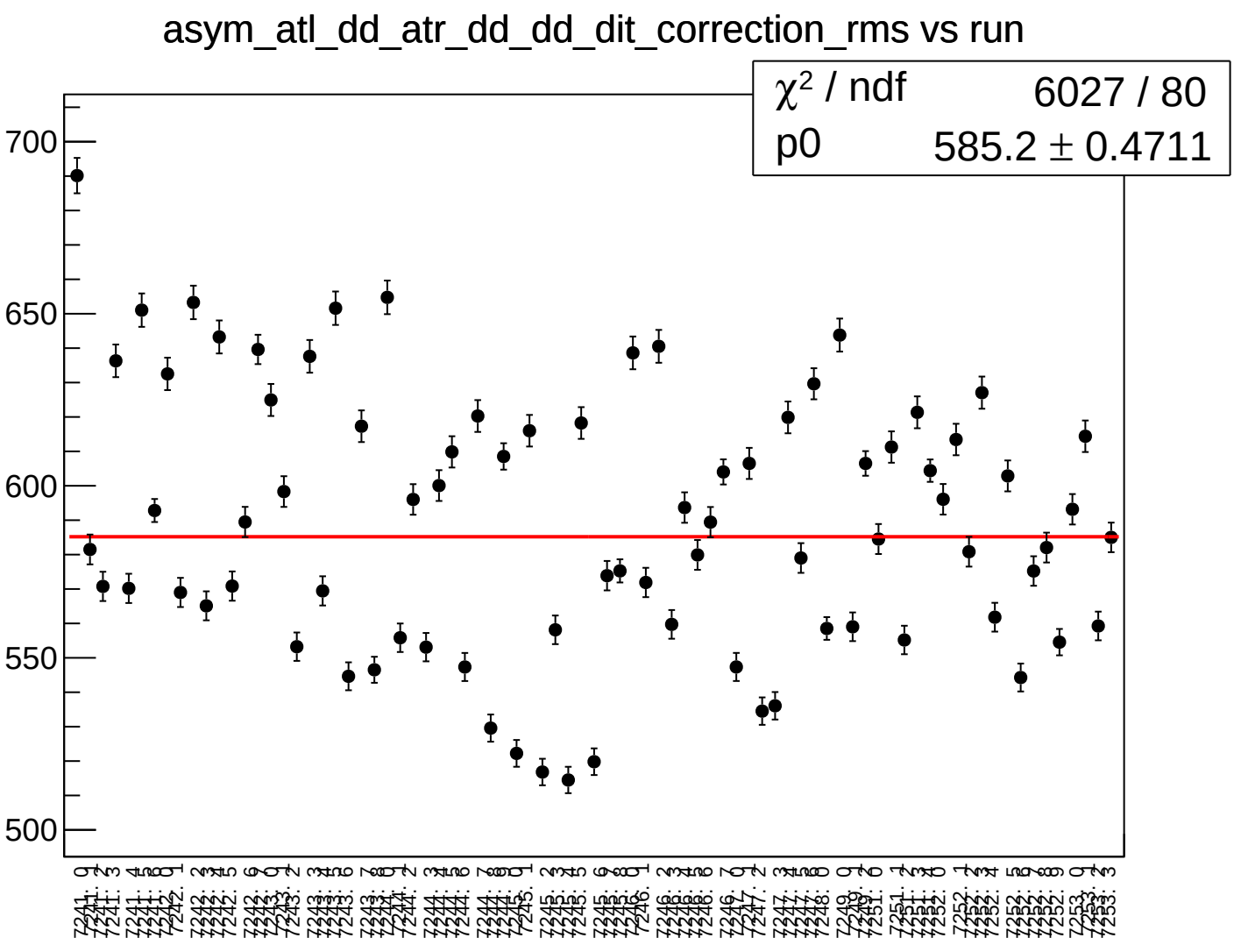

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 70.41 / 80
p0 −744.8 ± 1375
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −812.2
Std Dev 0
3
2
1
0
−1
−2

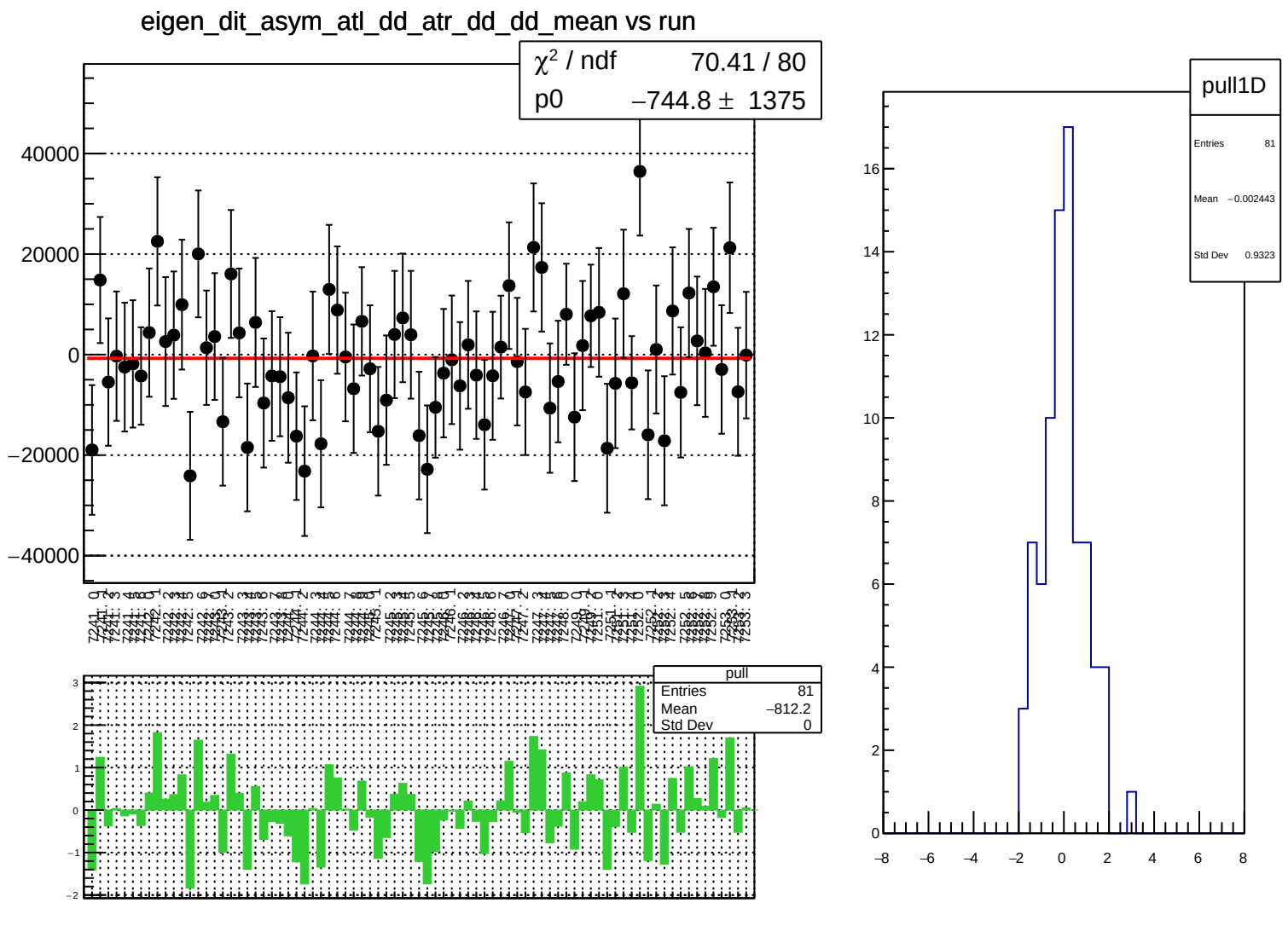

pull1D
Entries 81
Mean −0.002443
Std Dev 0.9323
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

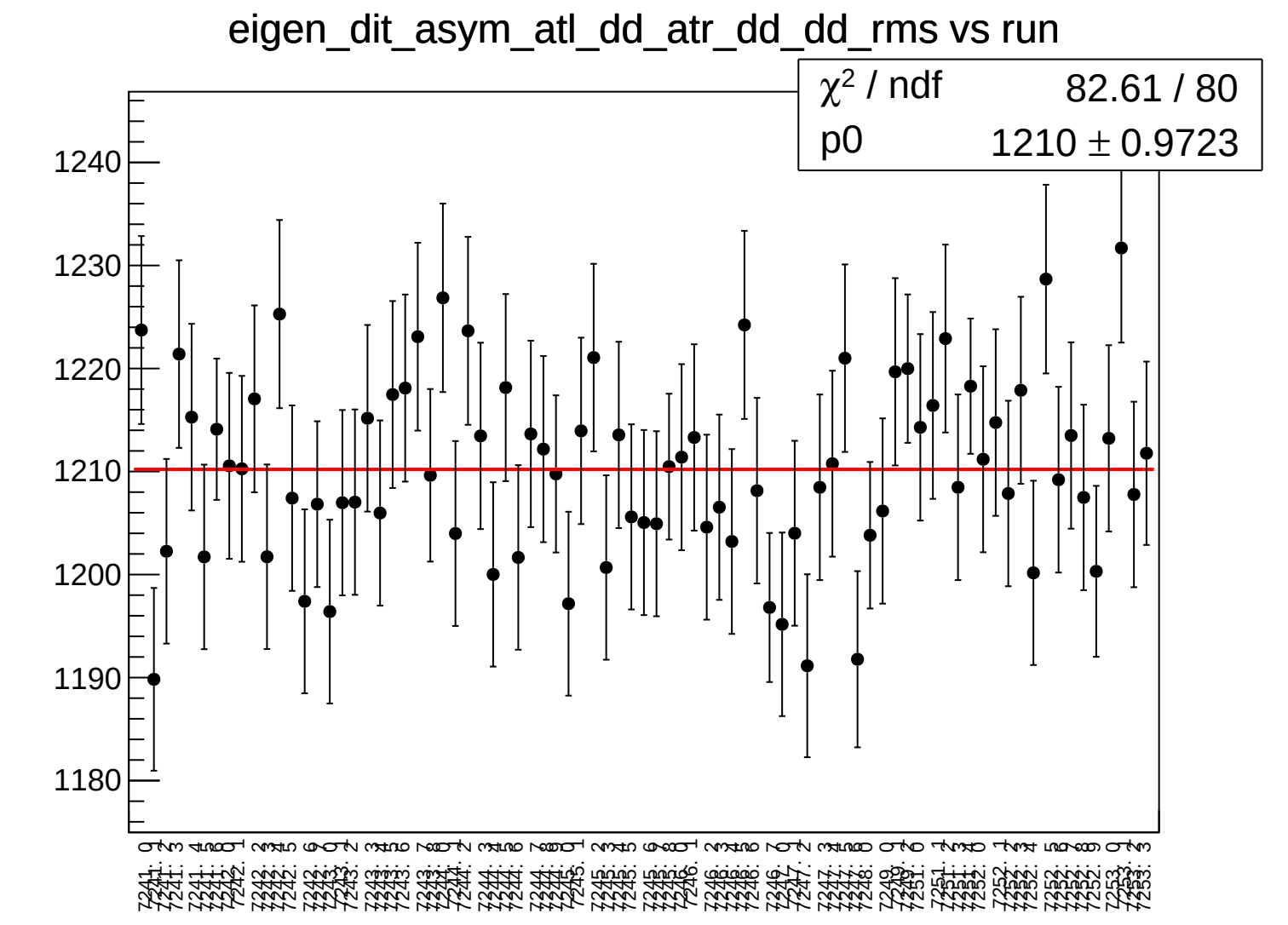

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 82.61 / 80
p0 1210 ± 0.9723
1240
1230
1220
1210
1200
1190
1180

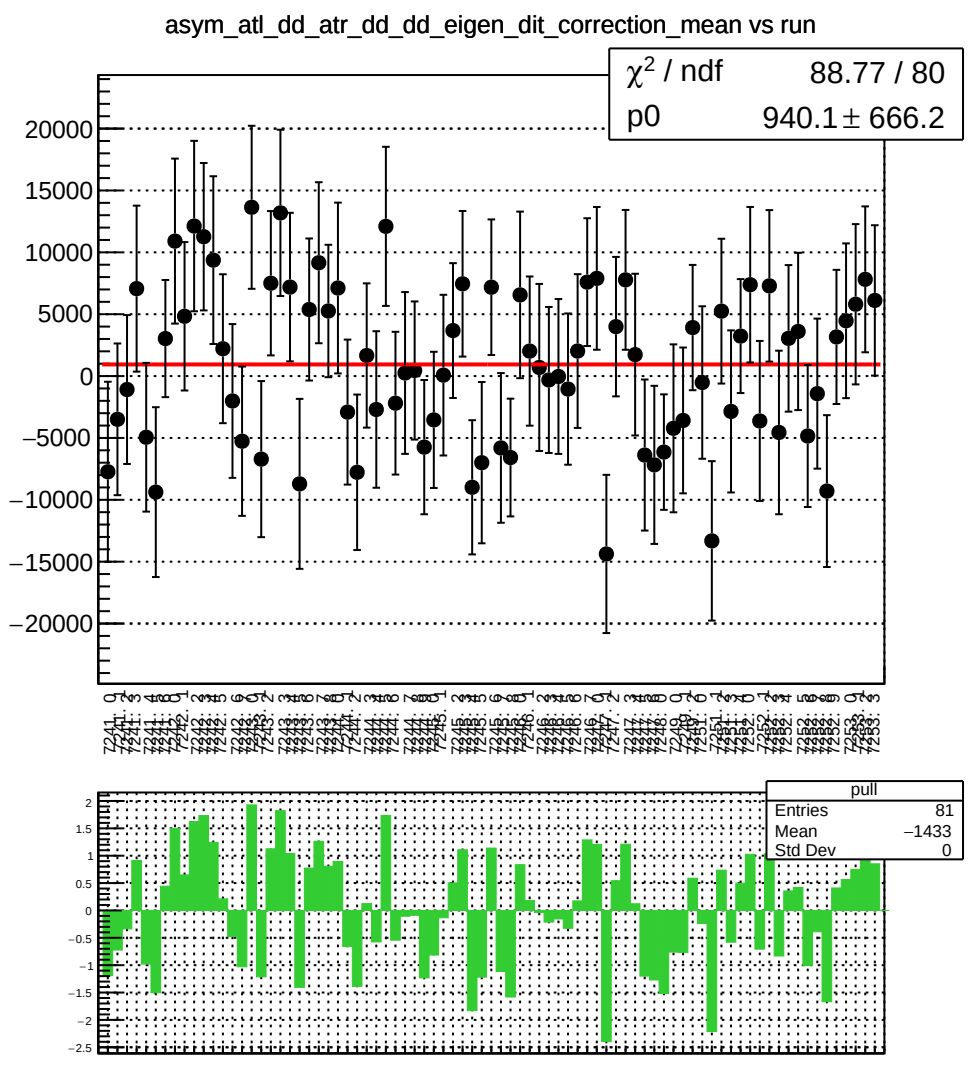

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 88.77 / 80
p0 940.1 ± 666.2
pull
Entries 81
Mean −1433
Std Dev 0

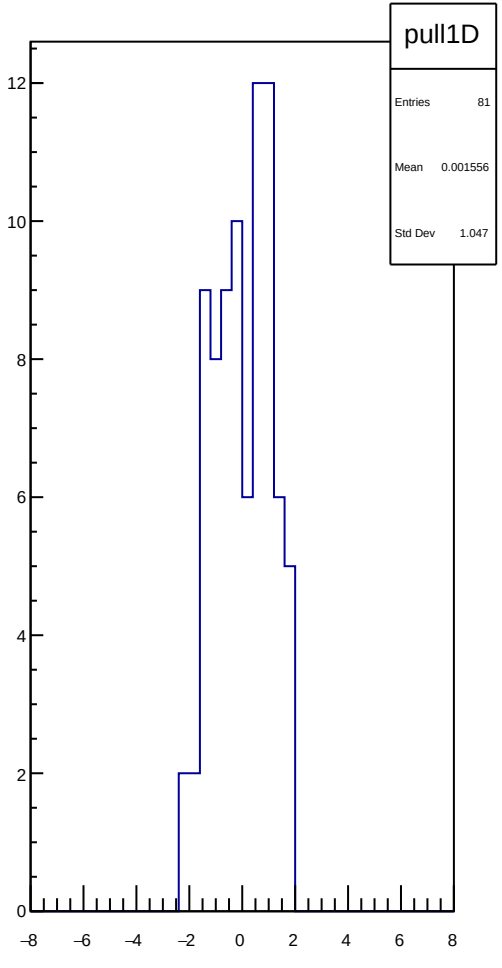

pull1D
Entries 81
Mean 0.001556
Std Dev 1.047

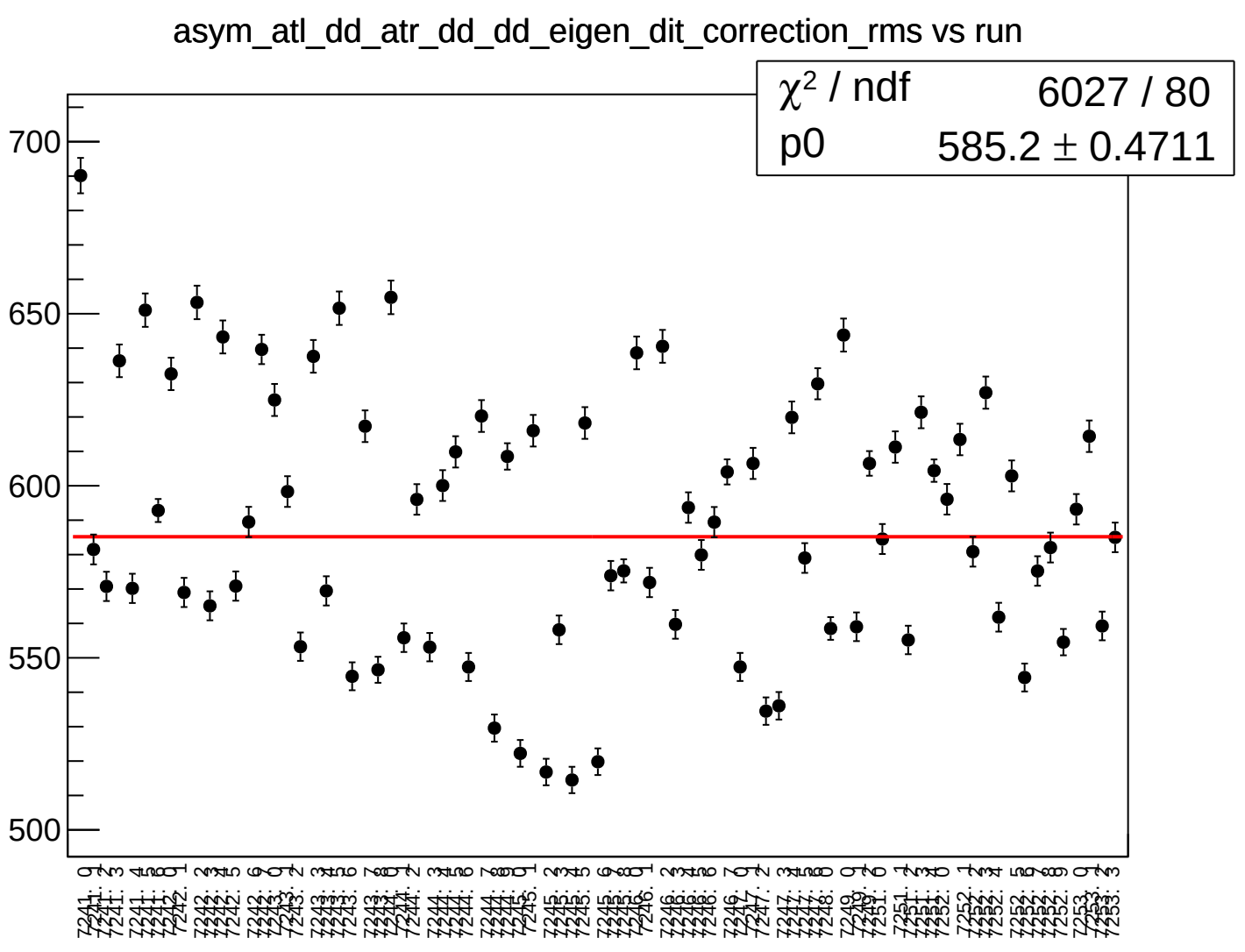

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 6027 / 80
p0 585.2 ± 0.4711
700
650
600
550
500

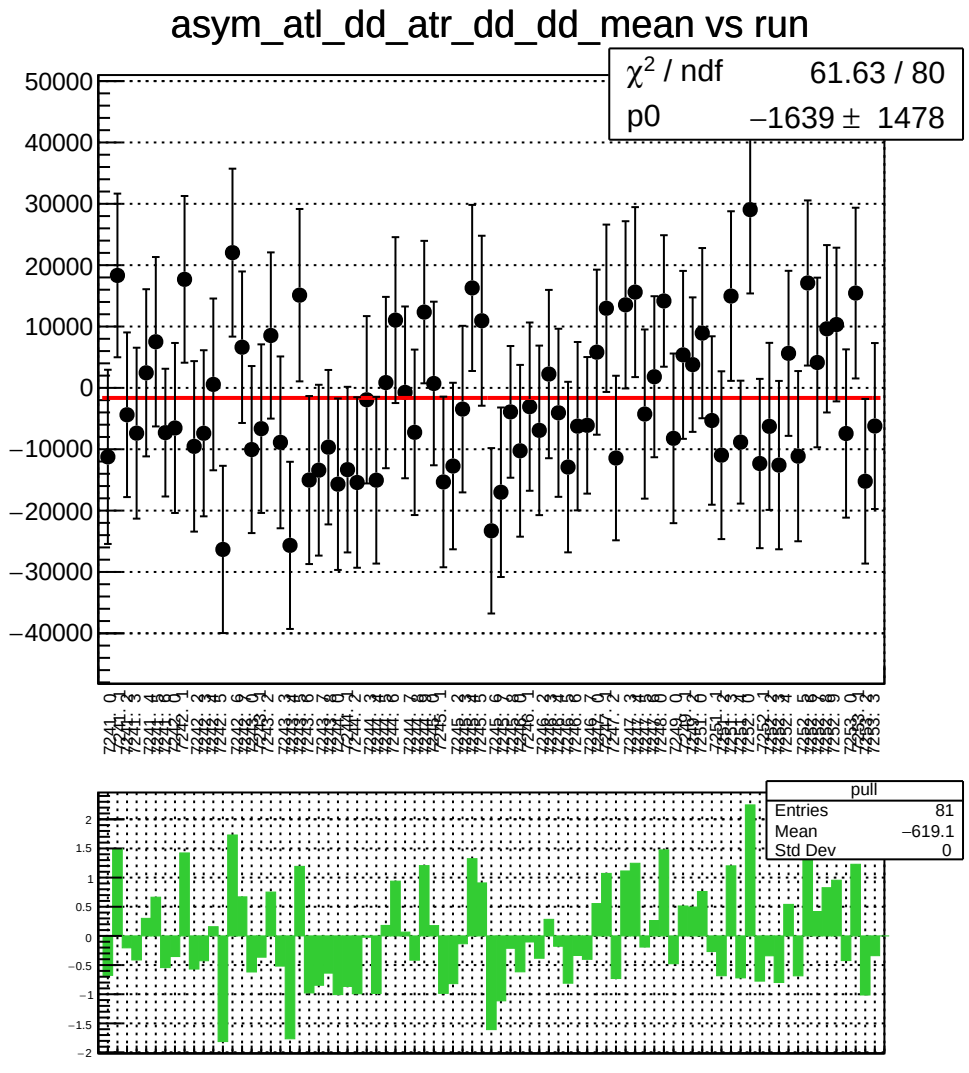

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 70.41 / 80
p0 −744.8 ± 1375
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −812.2
Std Dev 0
pull1D
Entries 81
Mean −0.002443
Std Dev 0.9323

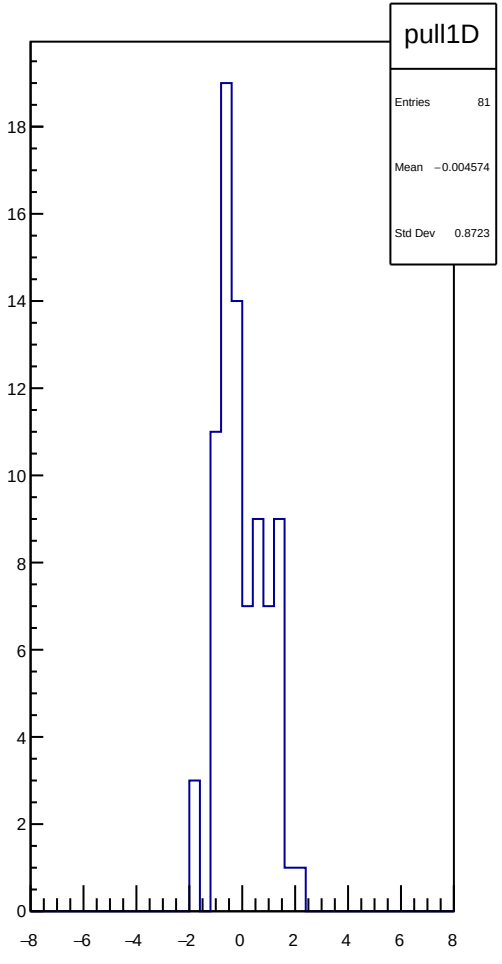

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 82.61 / 80
p0 1210 ± 0.9723
1240
1230
1220
1210
1200
1190
1180

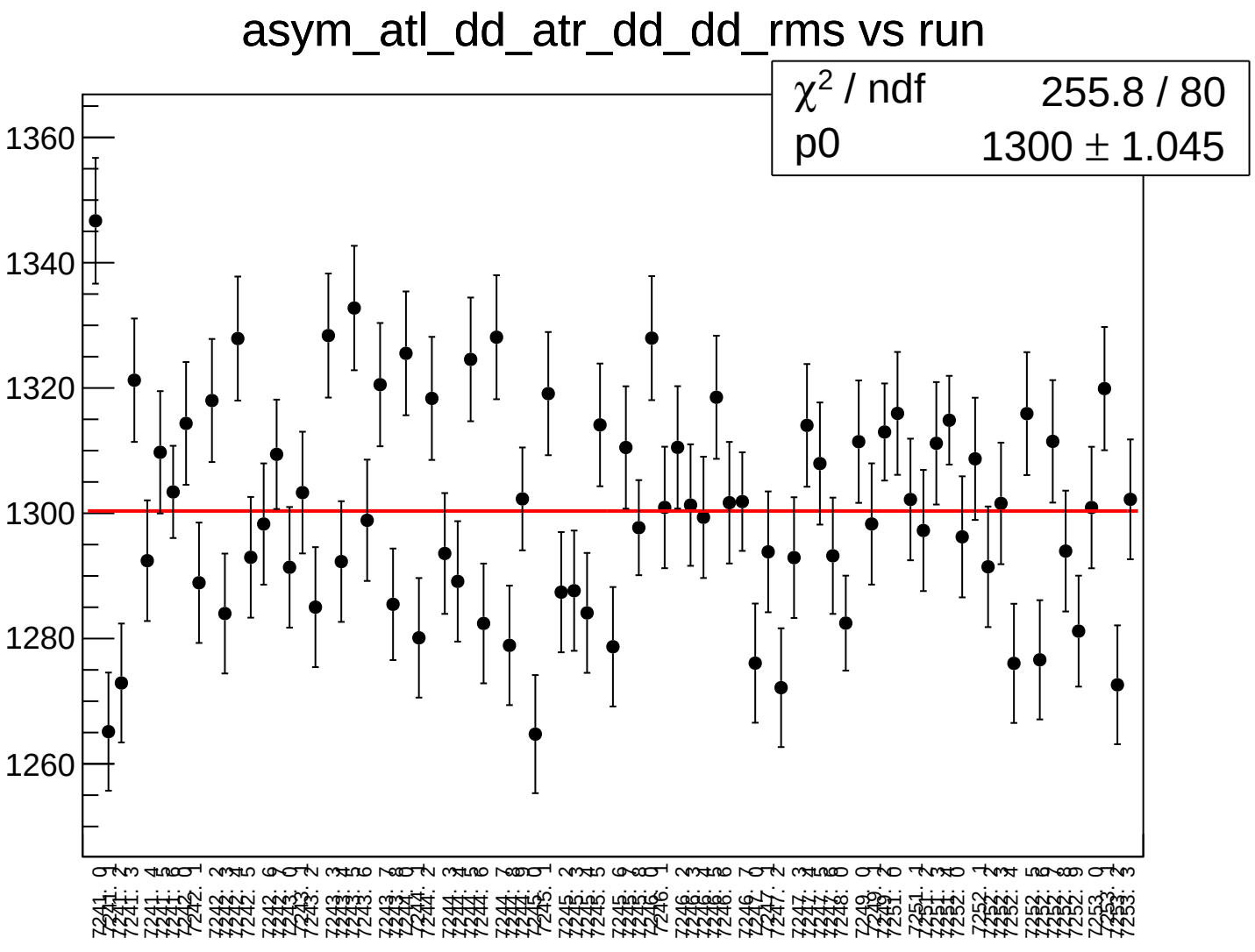

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 88.77 / 80
p0 940.1 ± 666.2
pull
Entries 81
Mean −1433
Std Dev 0

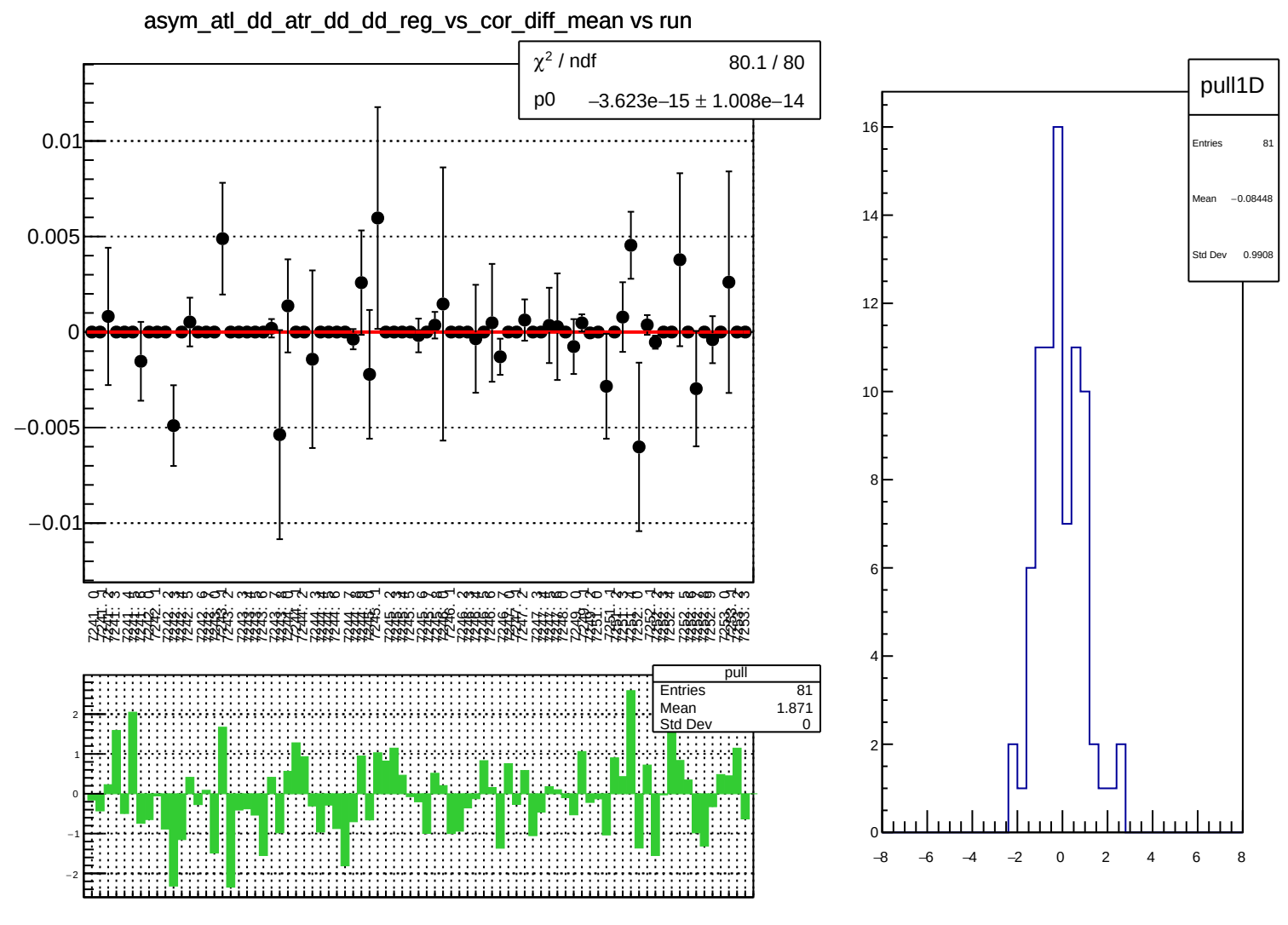

pull1D
Entries 81
Mean 0.001556
Std Dev 1.047

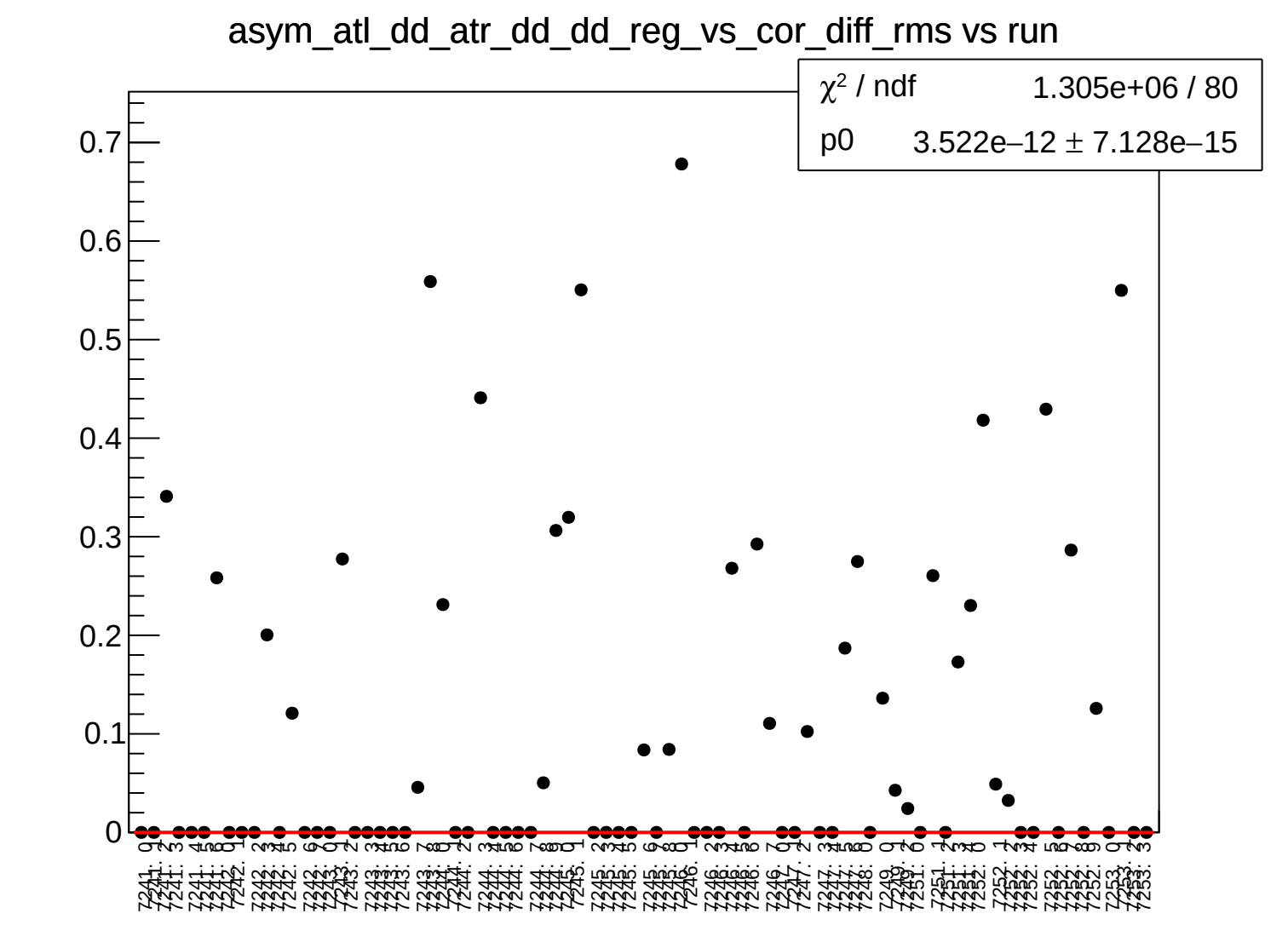

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 6027 / 80
p0 585.2 ± 0.4711
700
650
600
550
500

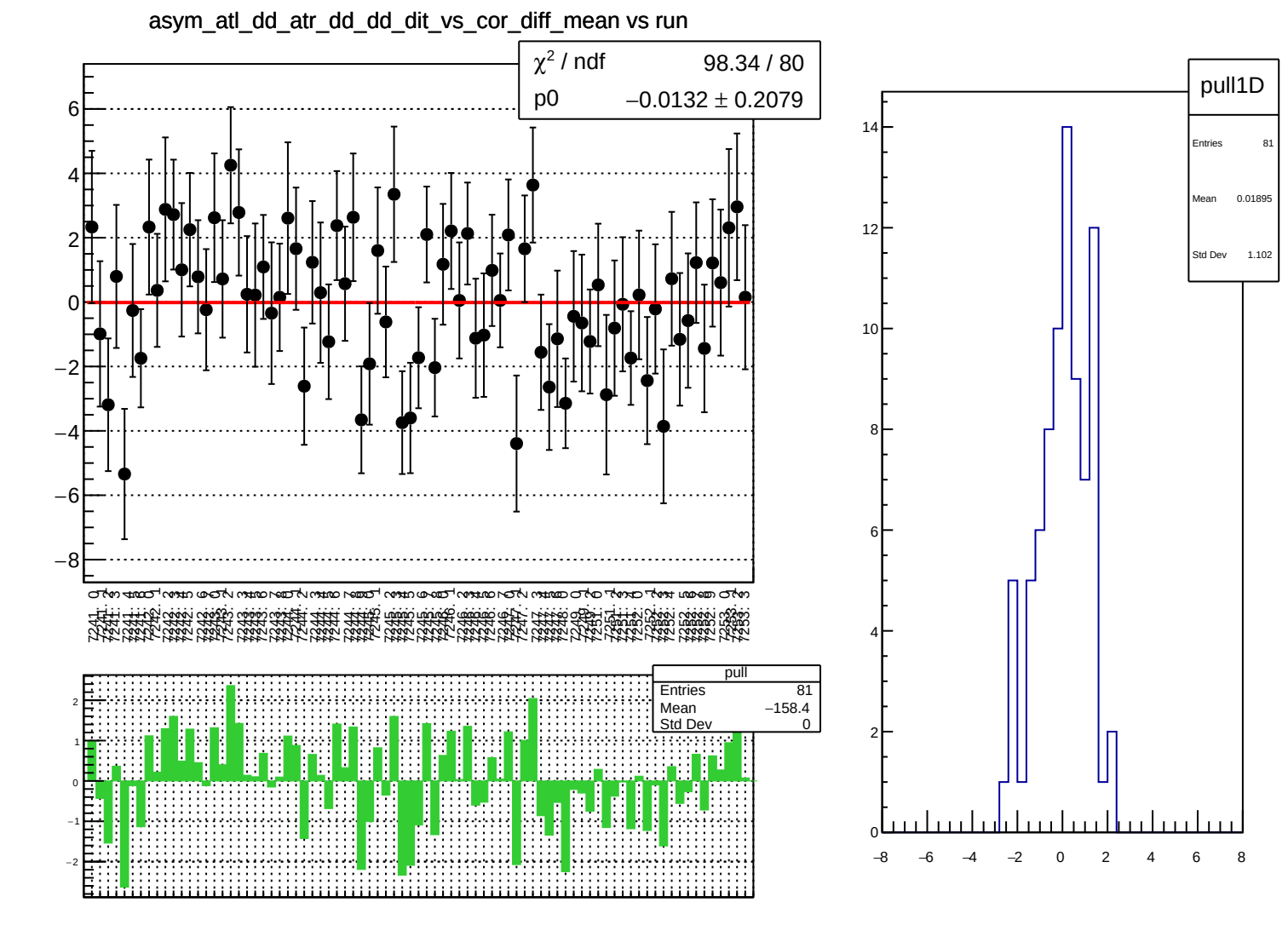

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 61.63 / 80
p0 −1639 ± 1478
pull
Entries 81
Mean −619.1
Std Dev 0

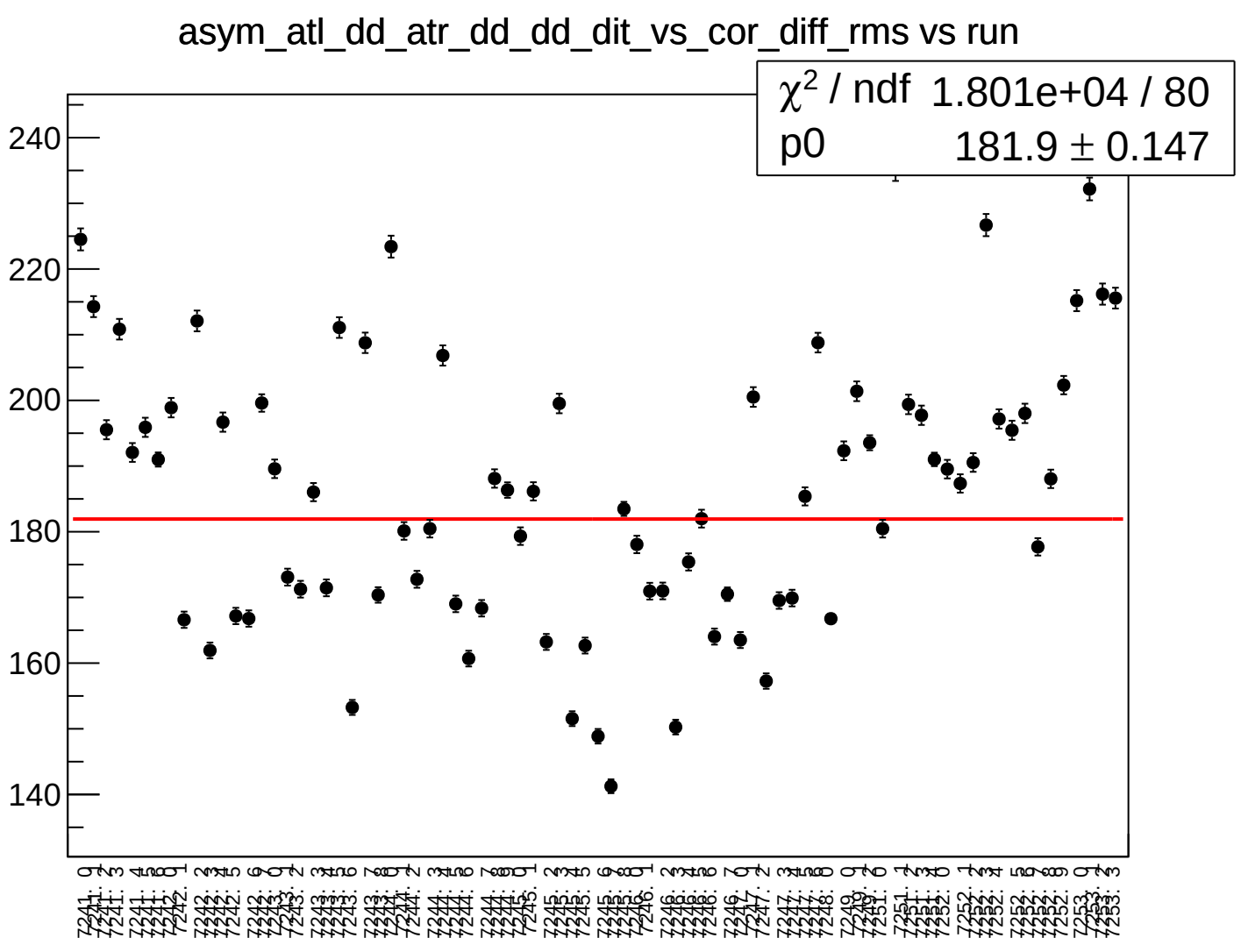

pull1D
Entries 81
Mean −0.004574
Std Dev 0.8723

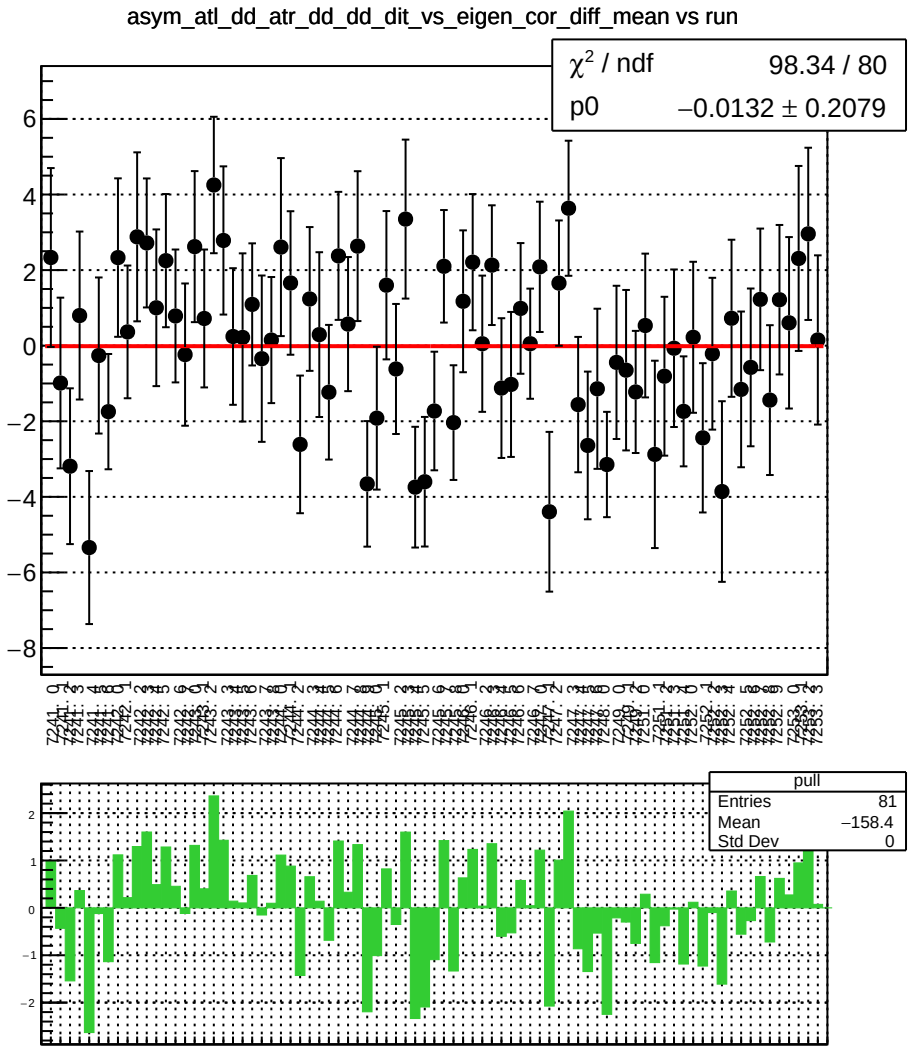

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 255.8 / 80
p0 1300 ± 1.045
1360
1340
1320
1300
1280
1260

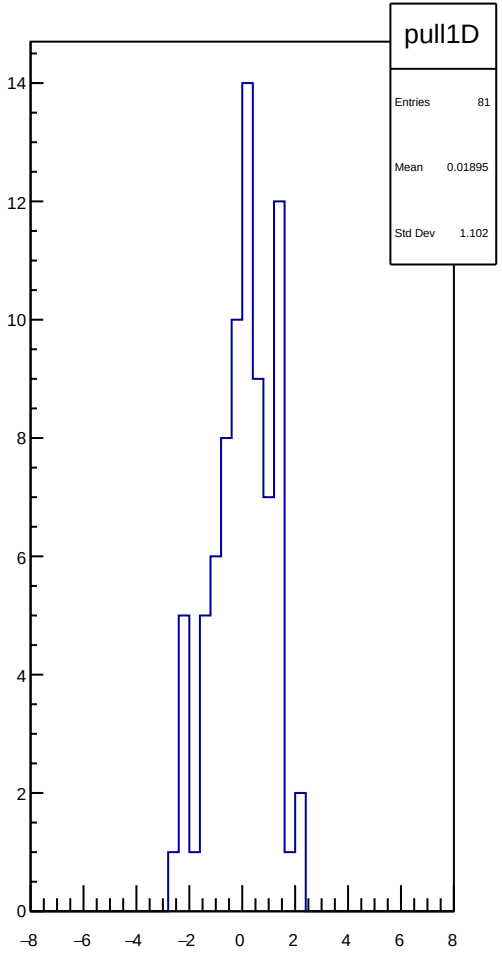

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 80.1 / 80
p0 −3.623e−15 ± 1.008e−14
0.01
0.005
0
−0.005
−0.01
pull
Entries 81
Mean 1.871
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 81
Mean −0.08448
Std Dev 0.9908
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

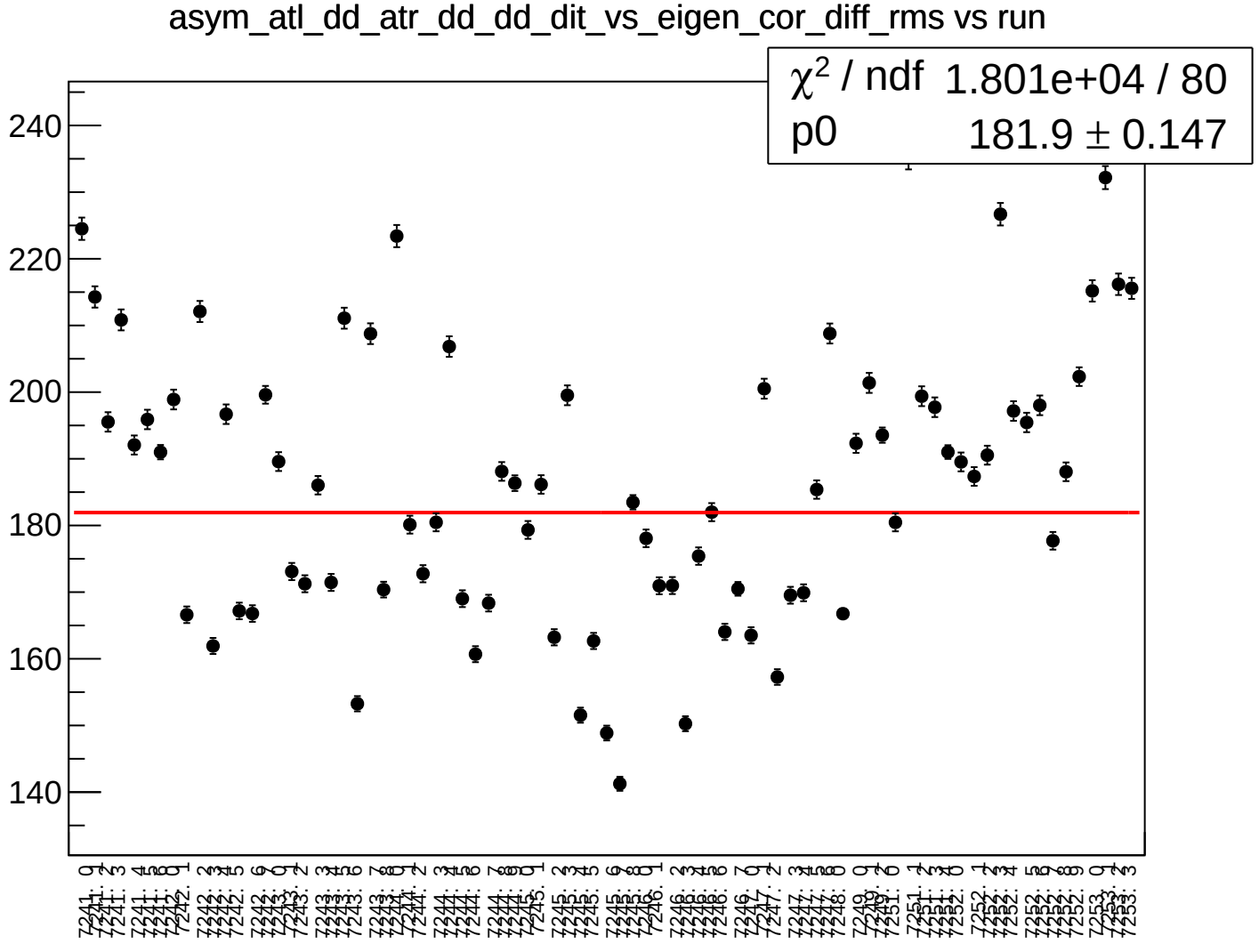

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.305e+06 / 80
p0 3.522e−12 ± 7.128e−15
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

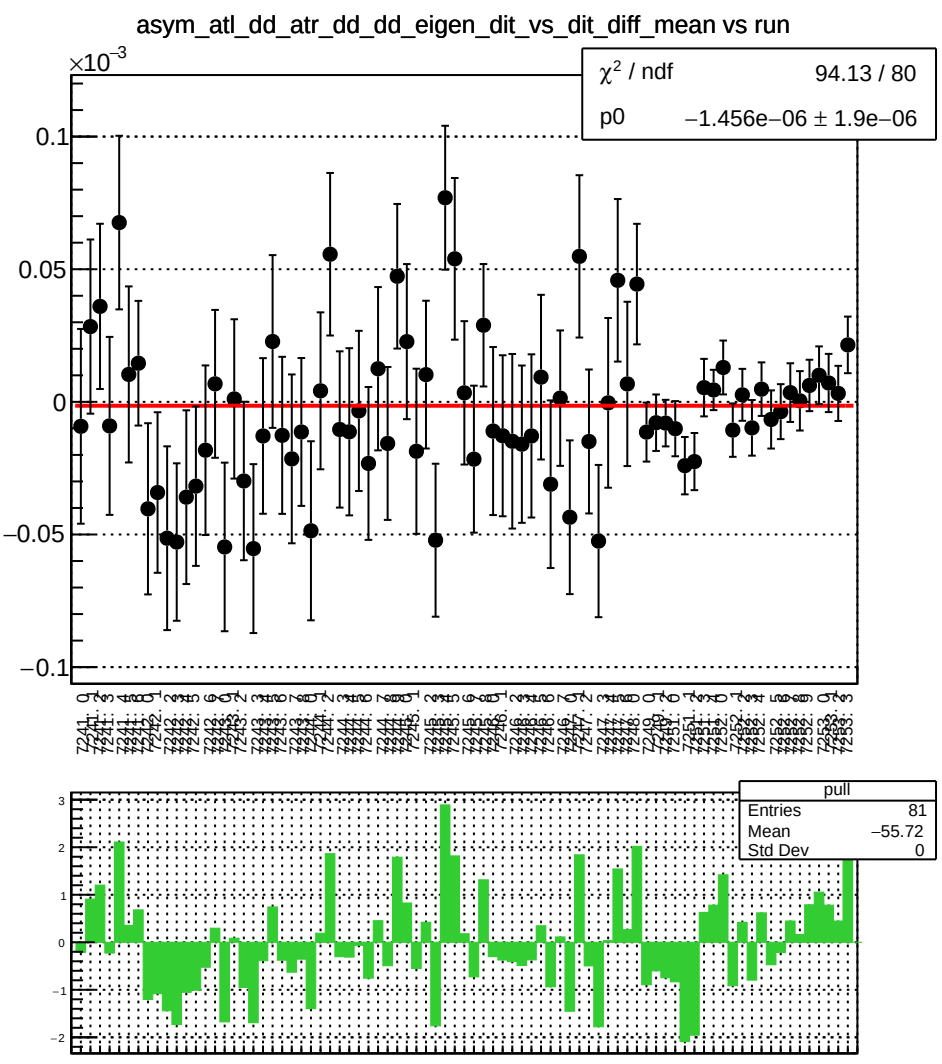

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 98.34 / 80
p0 −0.0132 ± 0.2079
pull
Entries 81
Mean −158.4
Std Dev 0
pull1D
Entries 81
Mean 0.01895
Std Dev 1.102

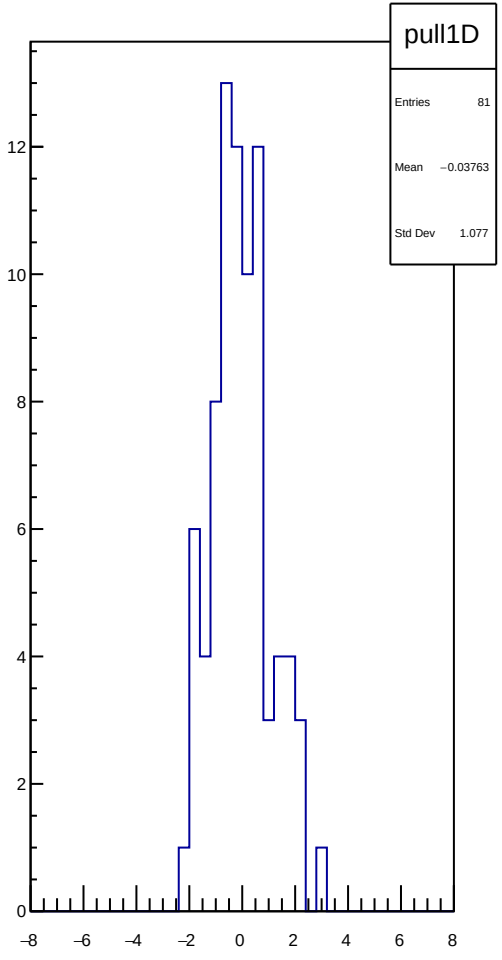

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.801e+04 / 80
p0 181.9 ± 0.147
240
220
200
180
160
140

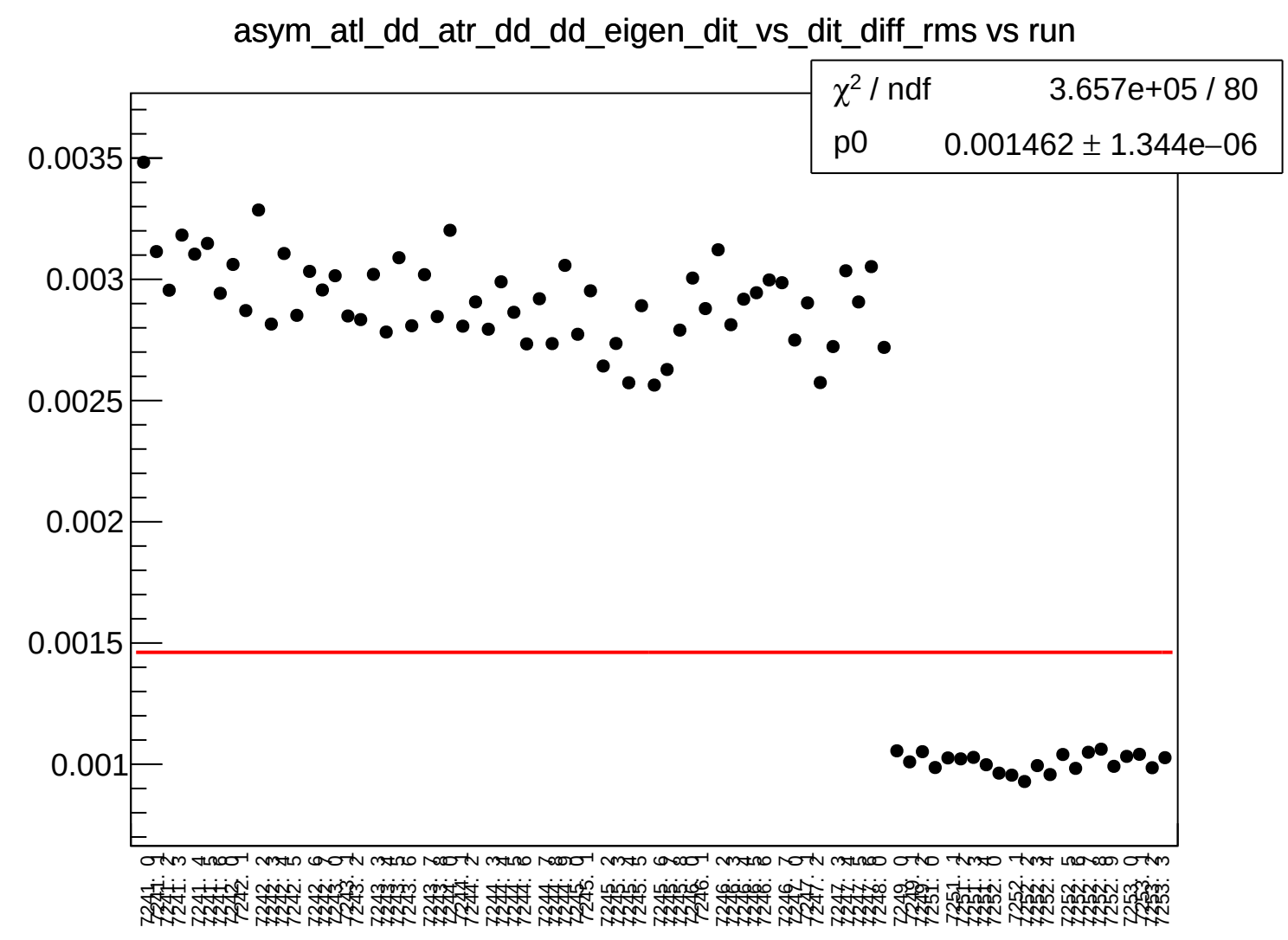

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.34 / 80
p0 −0.0132 ± 0.2079
pull
Entries 81
Mean −158.4
Std Dev 0

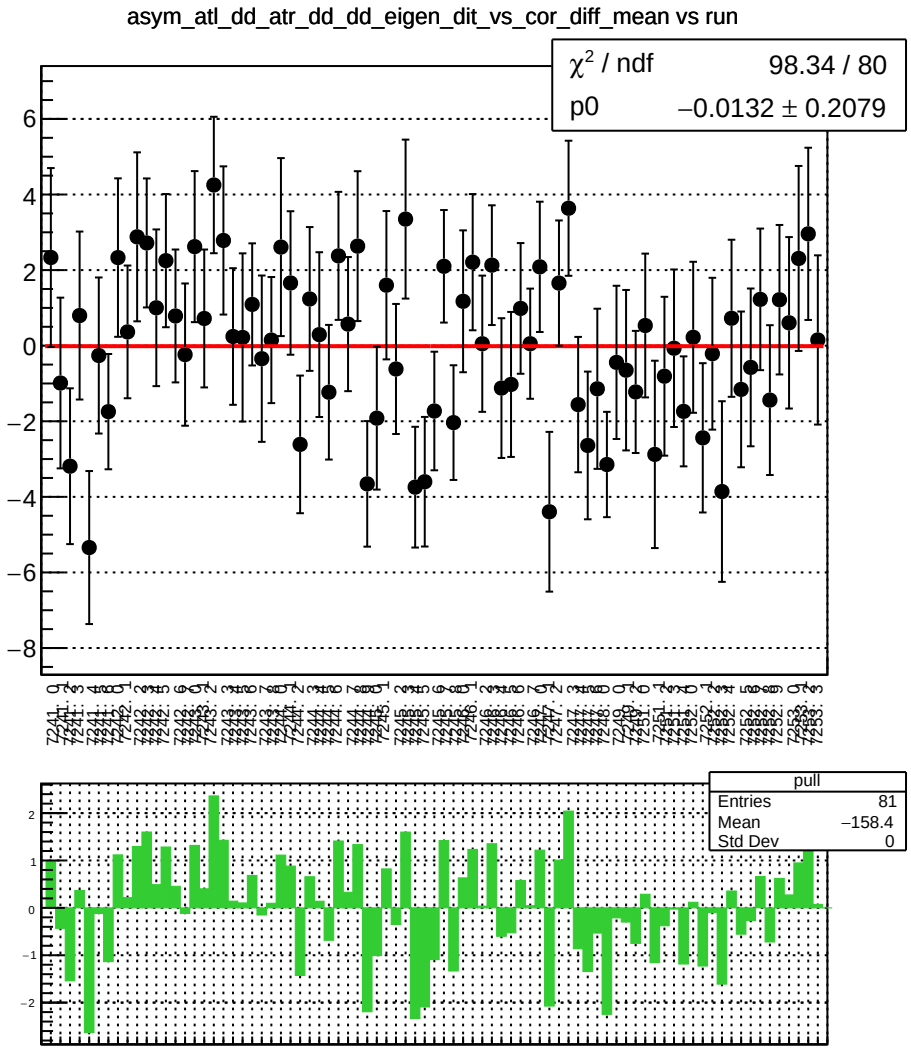

pull1D
Entries 81
Mean 0.01895
Std Dev 1.102

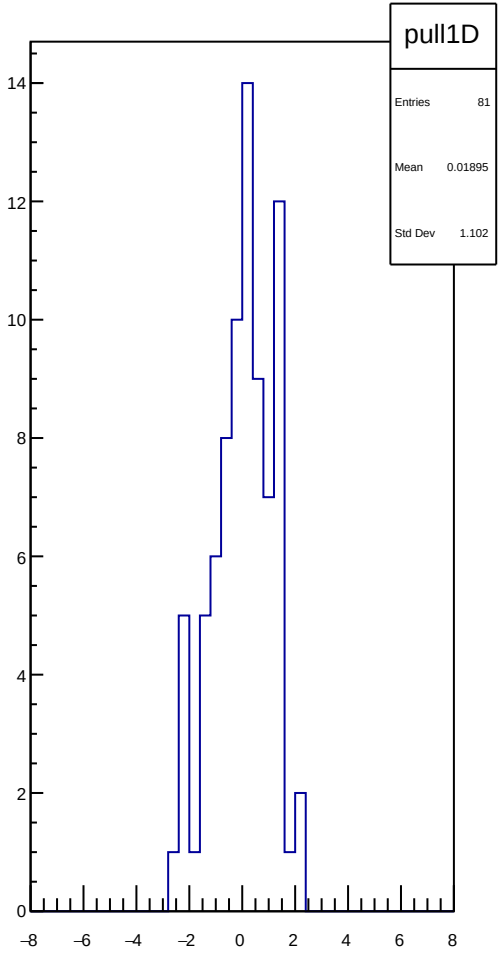

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.801e+04 / 80
p0 181.9 ± 0.147
240
220
200
180
160
140

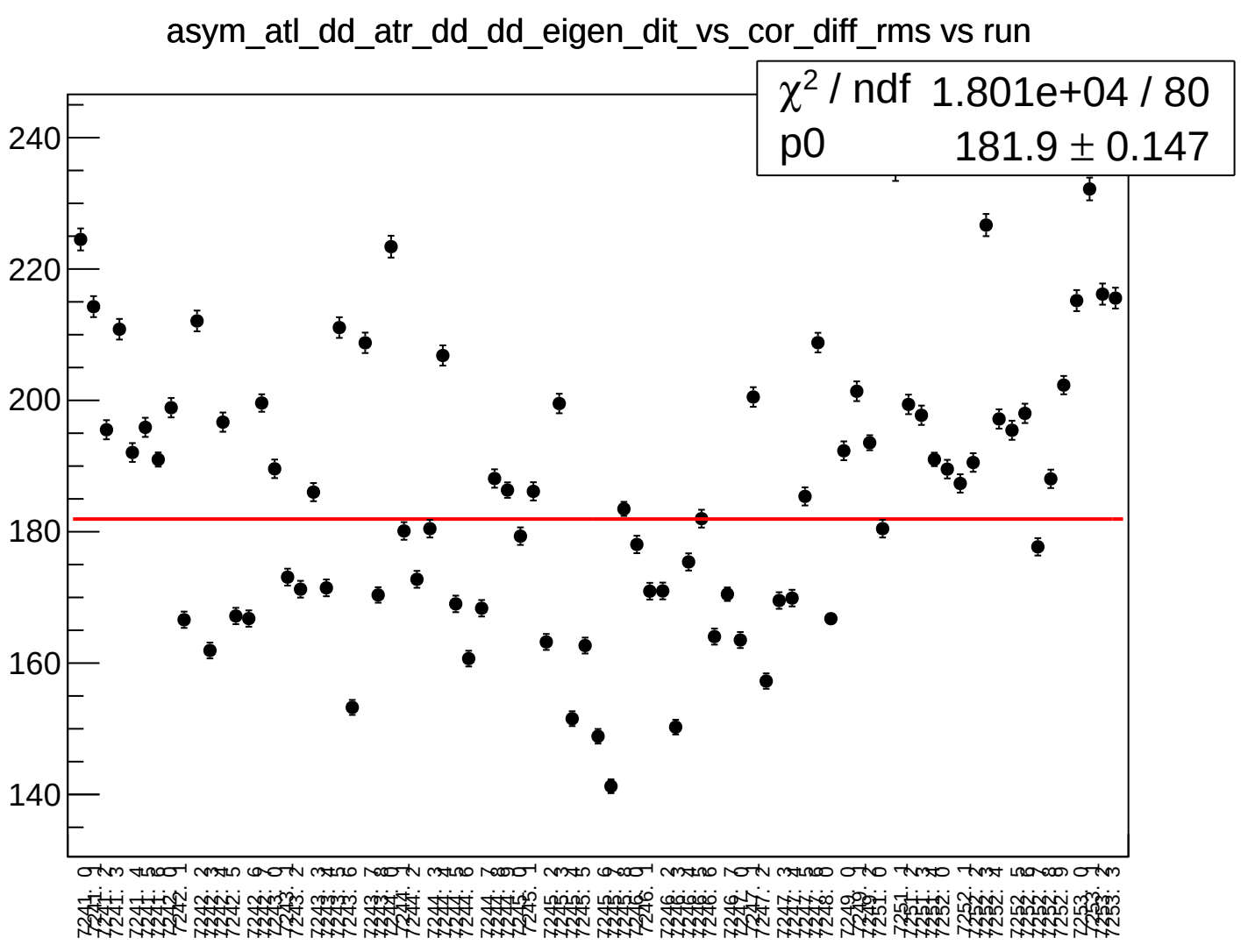

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.13 / 80
p0 −1.456e−06 ± 1.9e−06
pull
Entries 81
Mean −55.72
Std Dev 0

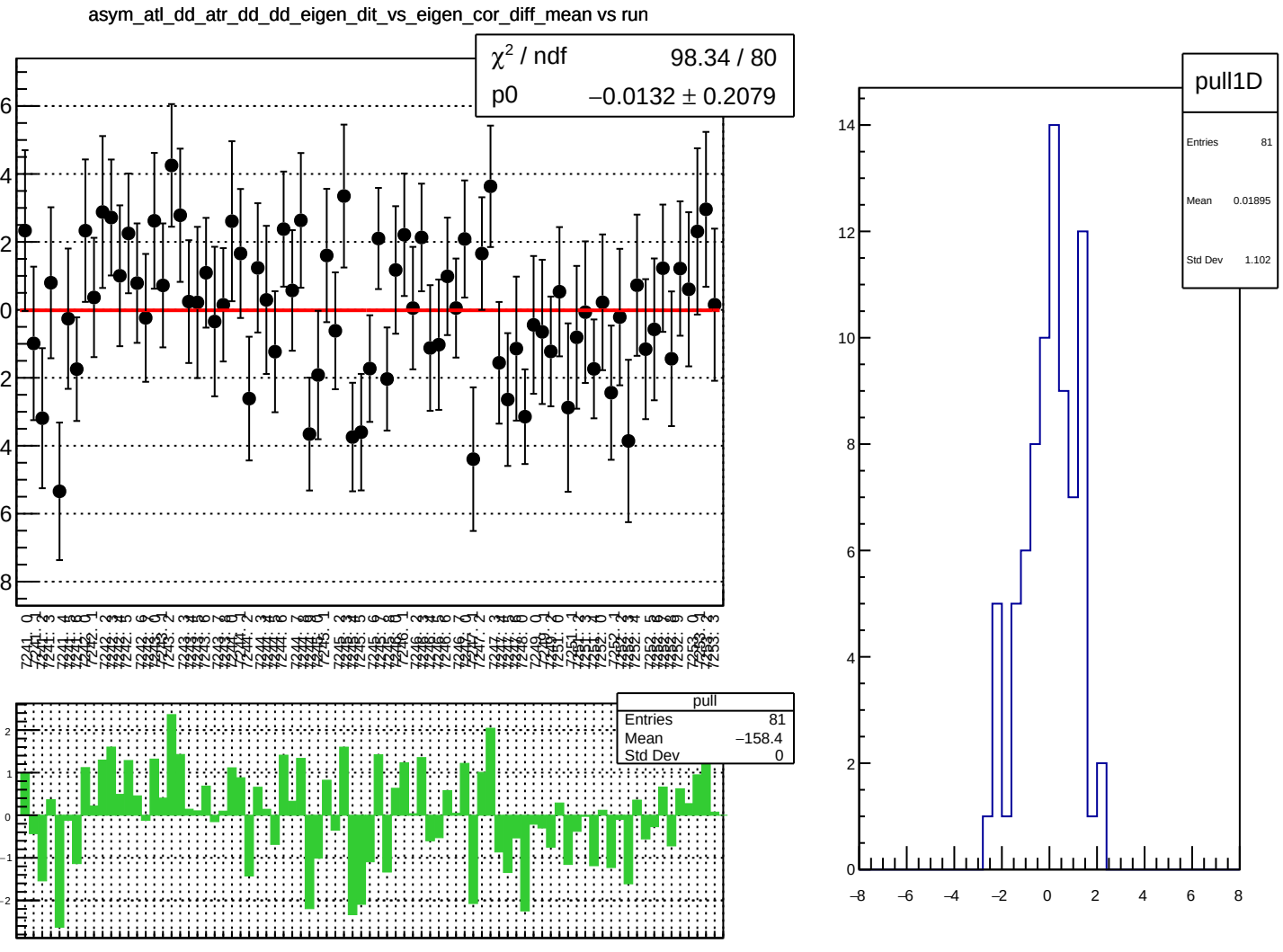

pull1D
Entries 81
Mean −0.03763
Std Dev 1.077

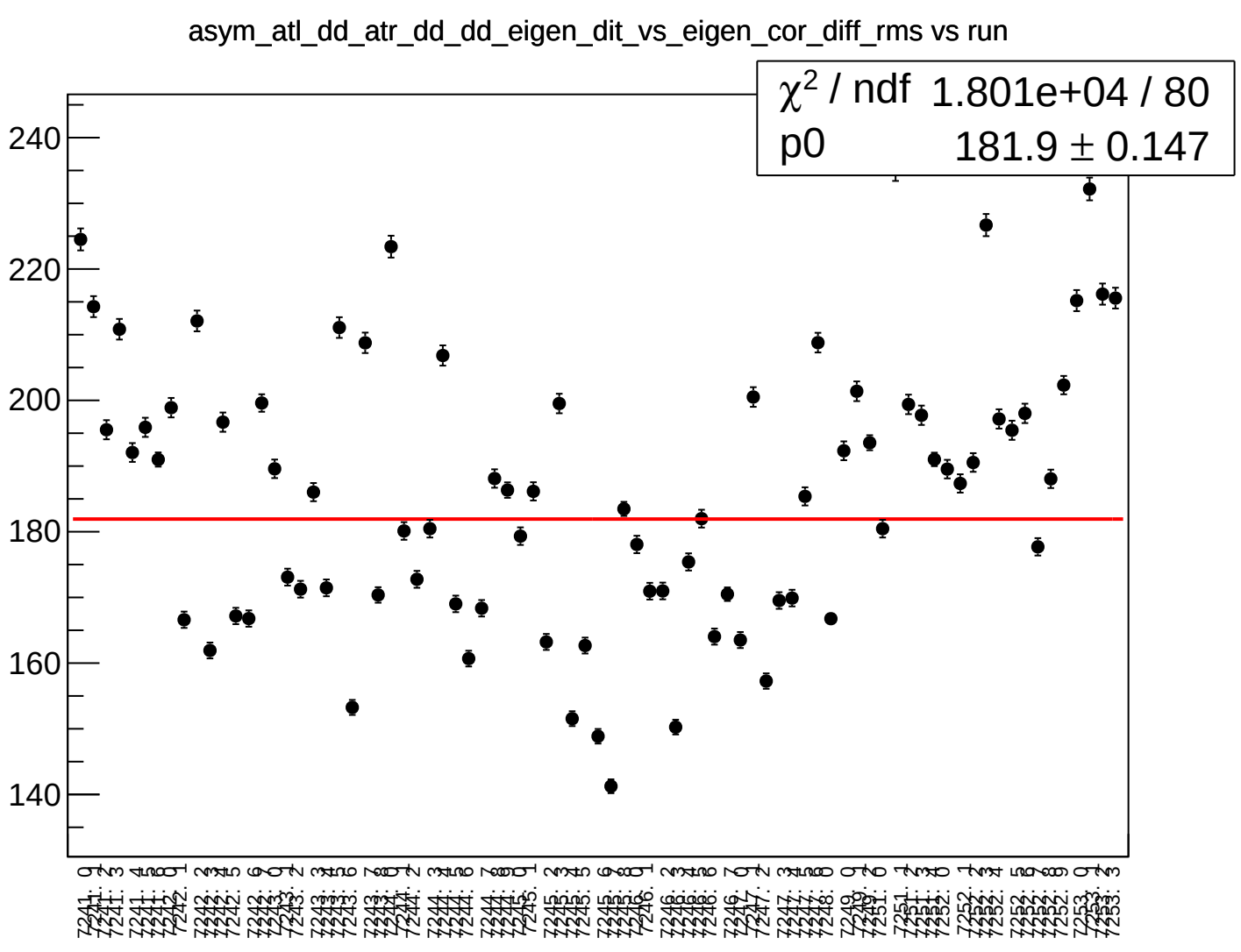

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.657e+05 / 80
p0 0.001462 ± 1.344e−06
0.0035
0.003
0.0025
0.002
0.0015
0.001

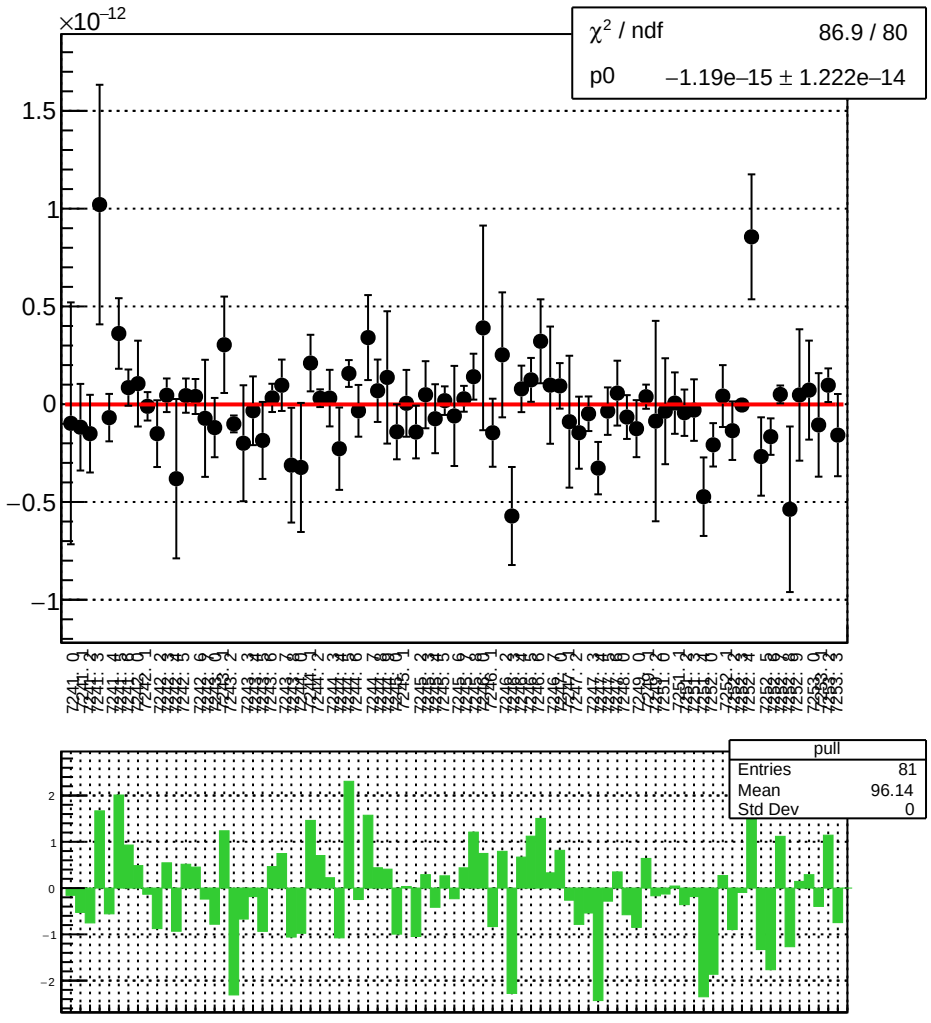

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.34 / 80
p0 −0.0132 ± 0.2079
pull
Entries 81
Mean −158.4
Std Dev 0

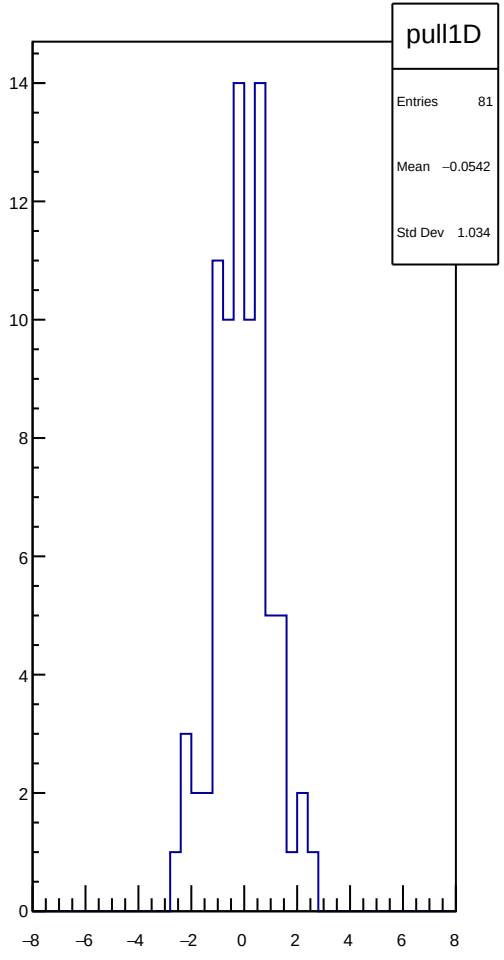

pull1D
Entries 81
Mean 0.01895
Std Dev 1.102

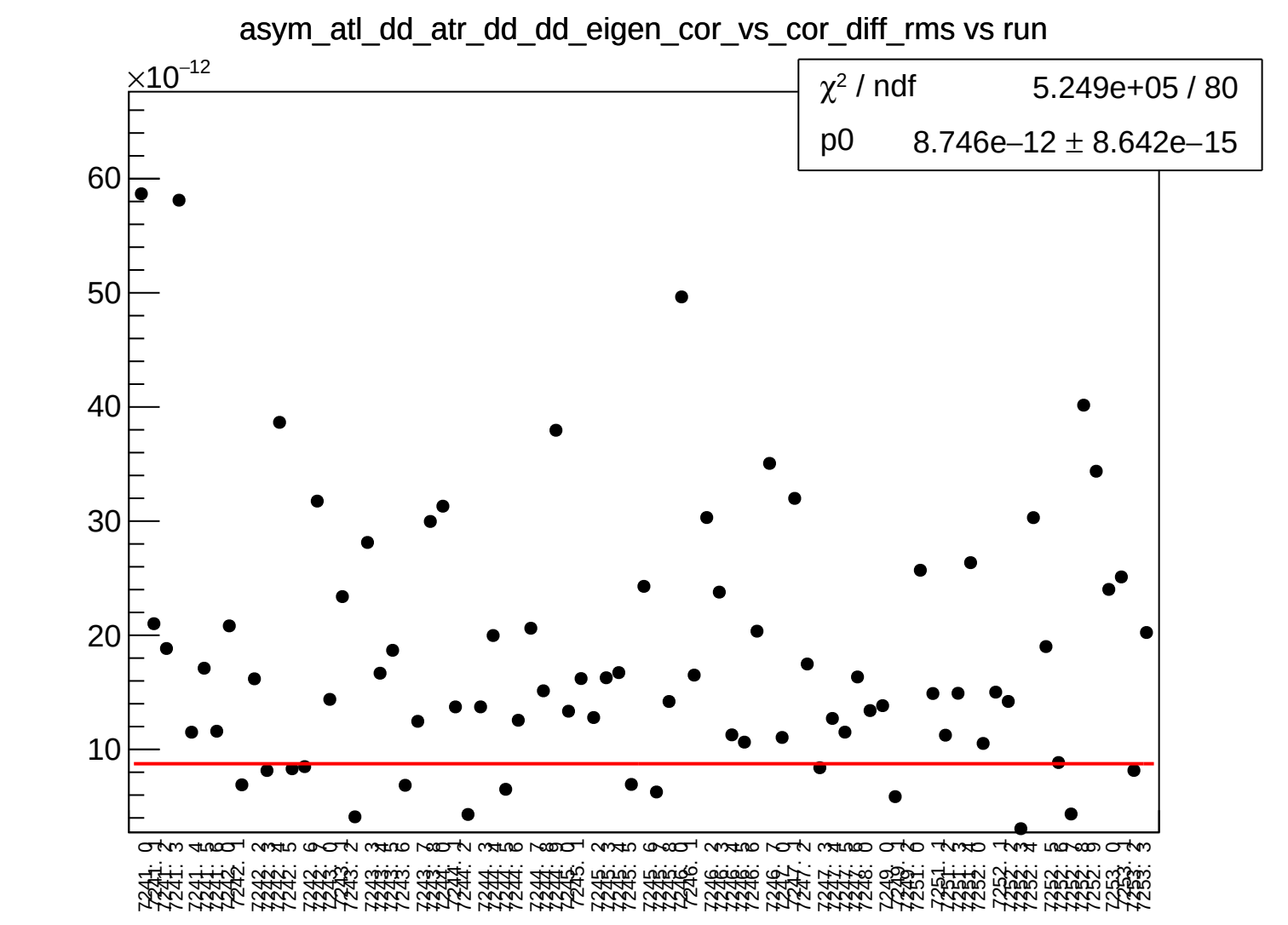

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.801e+04 / 80
p0 181.9 ± 0.147
240
220
200
180
160
140

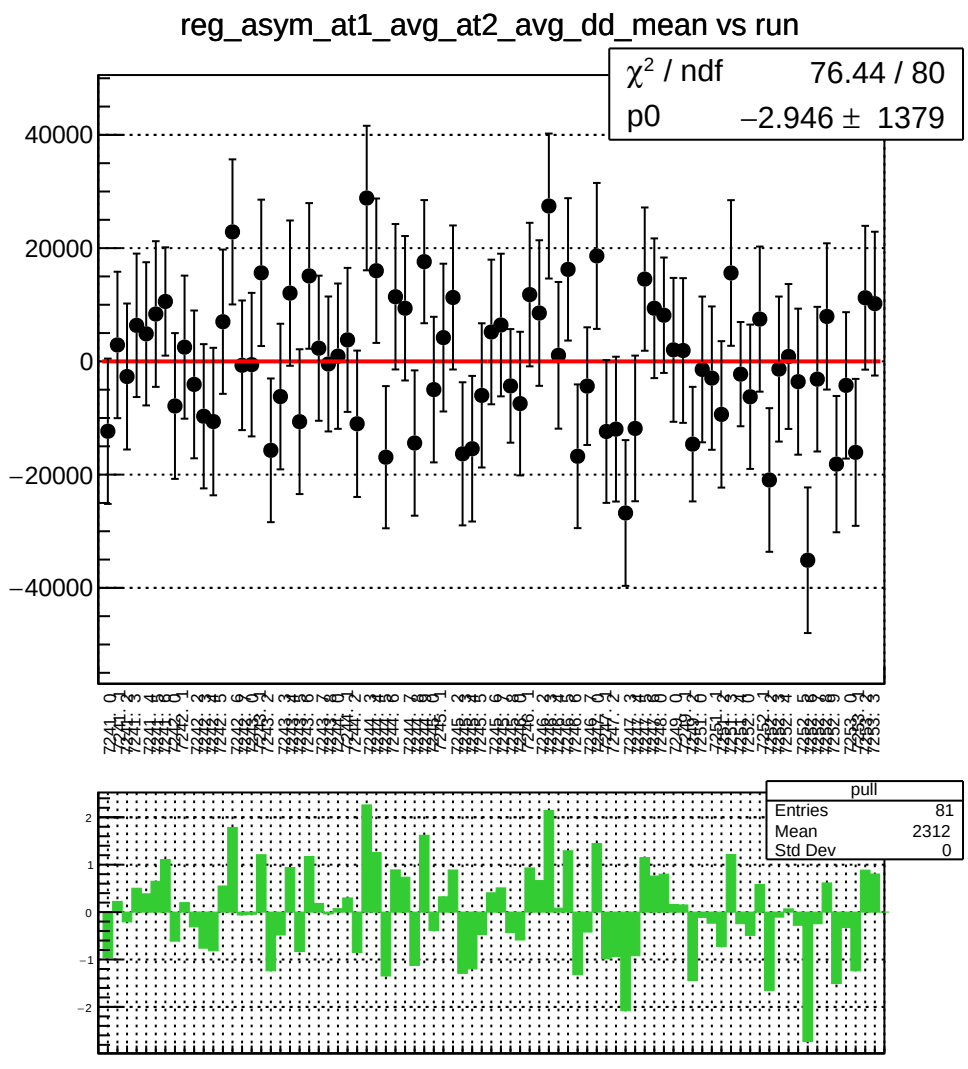

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.34 / 80
p0 −0.0132 ± 0.2079
pull
Entries 81
Mean −158.4
Std Dev 0
pull1D
Entries 81
Mean 0.01895
Std Dev 1.102

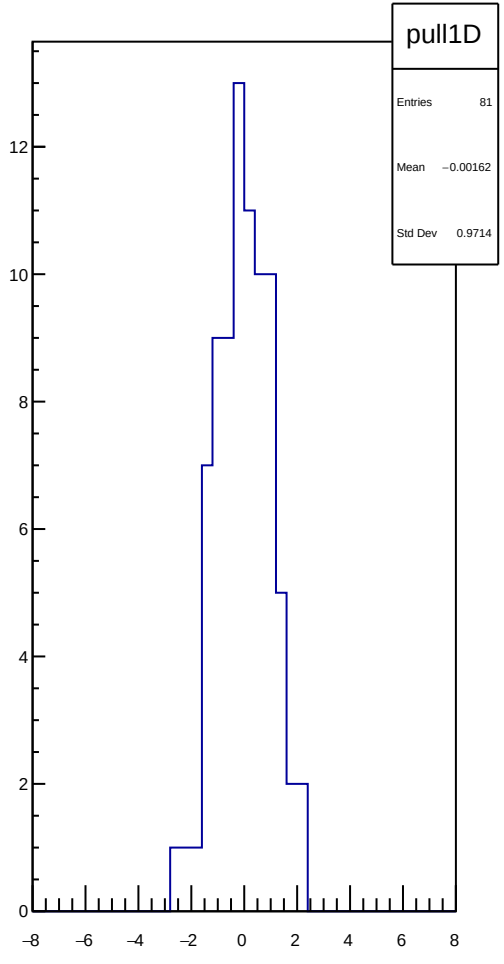

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.801e+04 / 80
p0 181.9 ± 0.147
240
220
200
180
160
140

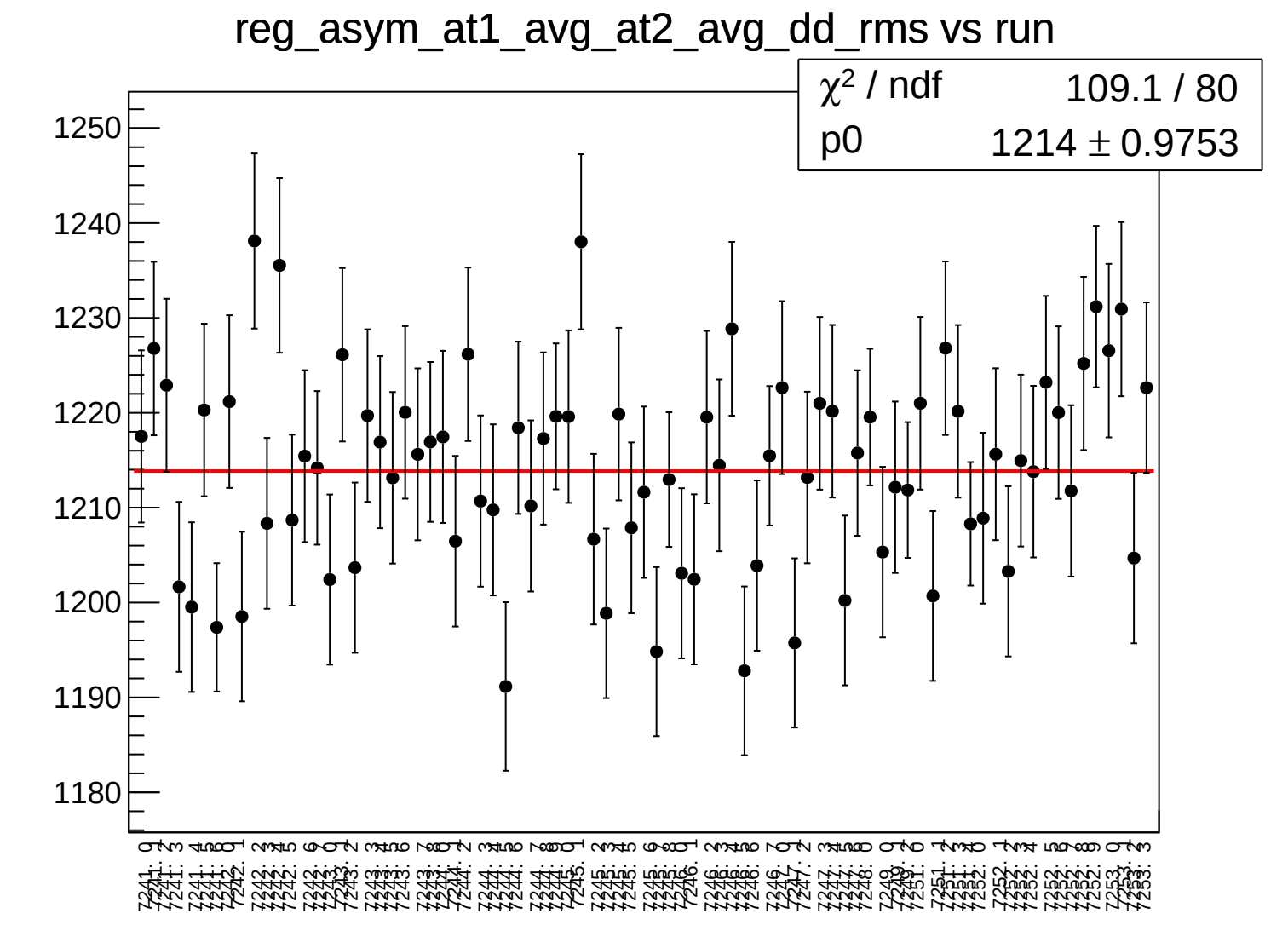

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.9 / 80
p0 −1.19e−15 ± 1.222e−14
1.5
1
0.5
0
−0.5
−1
pull
Entries 81
Mean 96.14
Std Dev 0
2
1
0
−1
−2

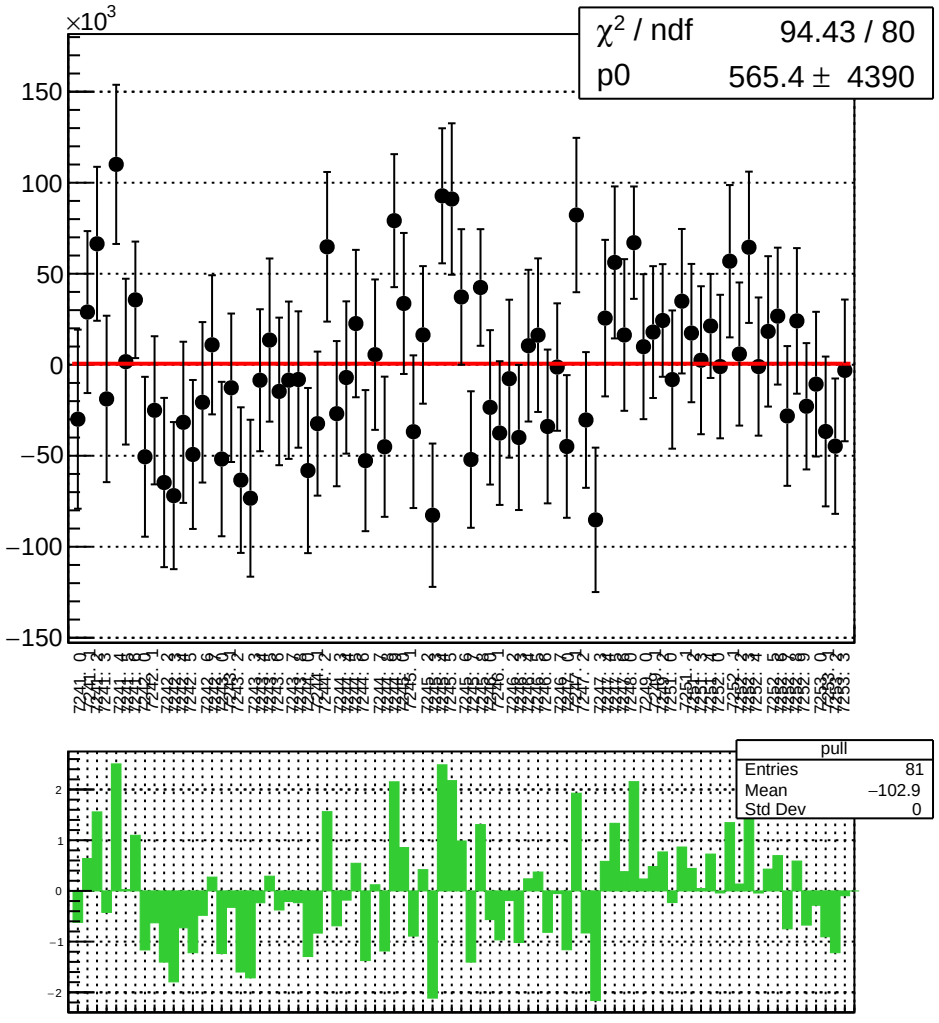

pull1D
Entries 81
Mean −0.0542
Std Dev 1.034
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

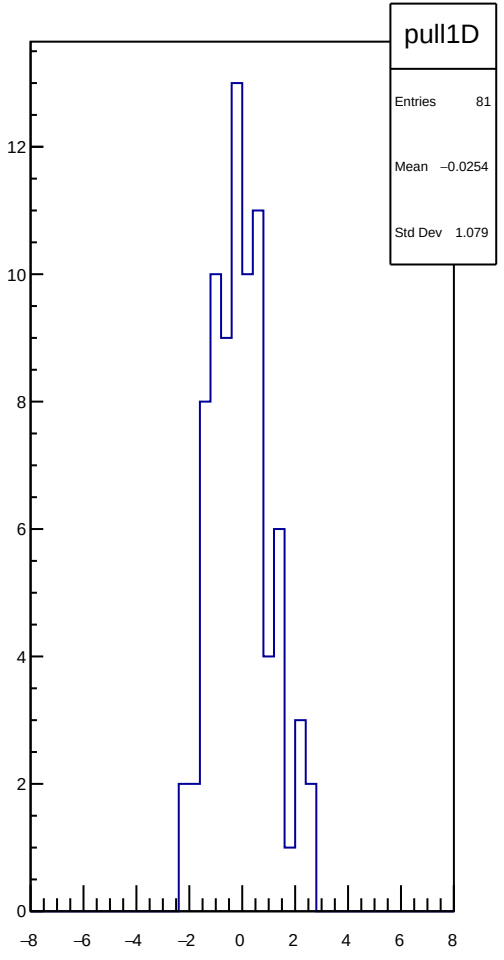

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.249e+05 / 80
p0 8.746e−12 ± 8.642e−15
60
50
40
30
20
10

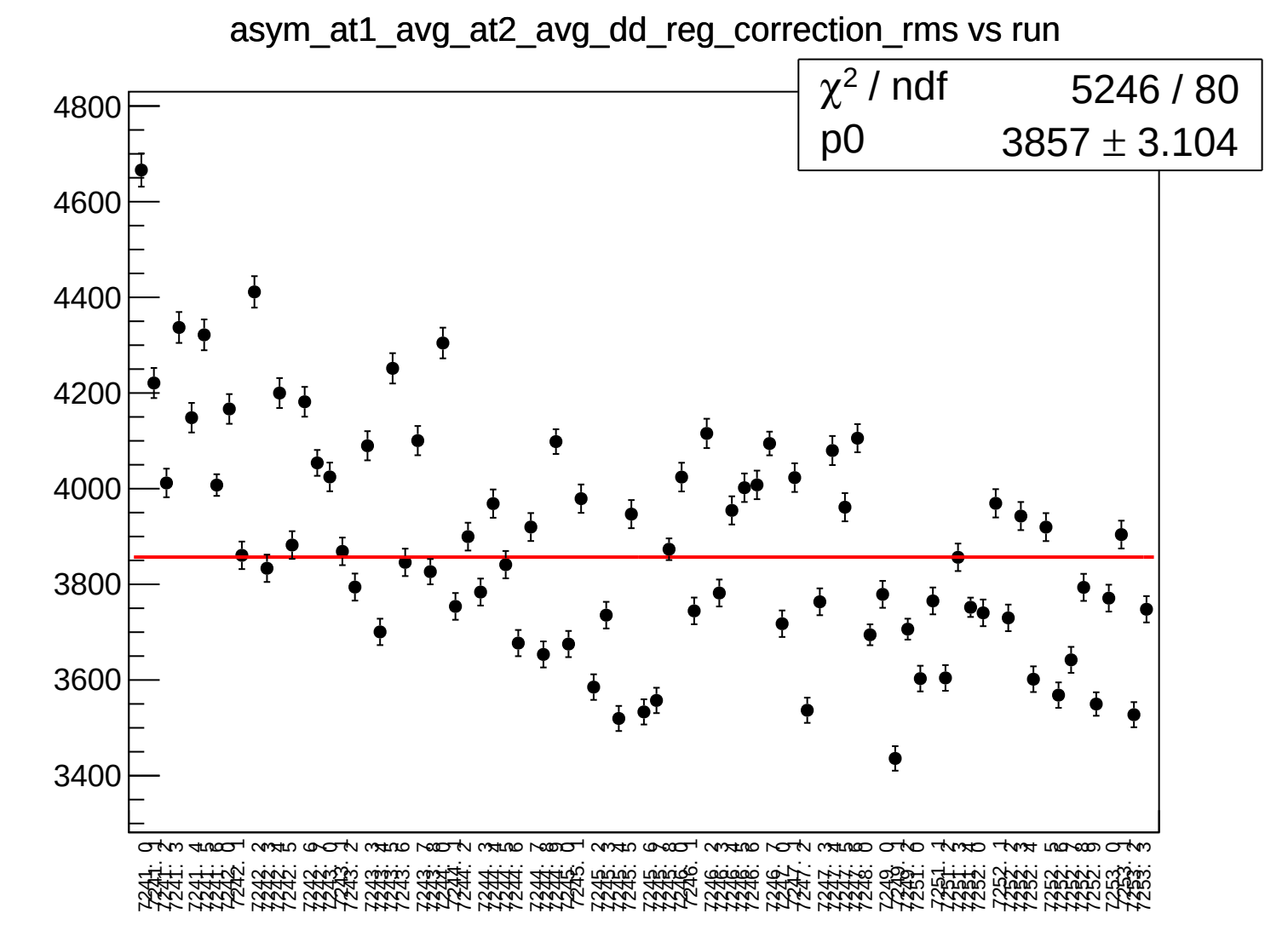

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 76.44 / 80
p0 −2.946 ± 1379
40000
20000
0
−20000
−40000
pull
Entries 81
Mean 2312
Std Dev 0
2
1
0
−1
−2

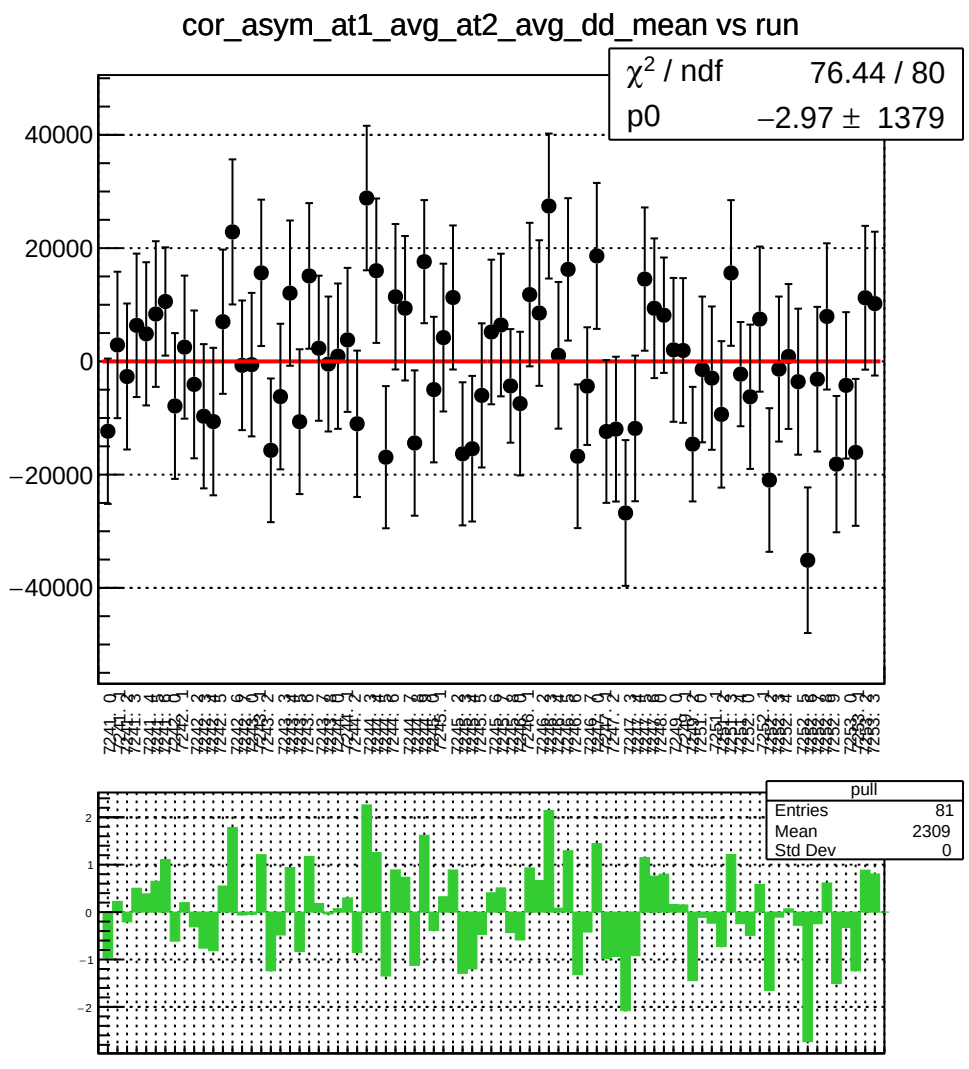

pull1D
Entries 81
Mean −0.00162
Std Dev 0.9714
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

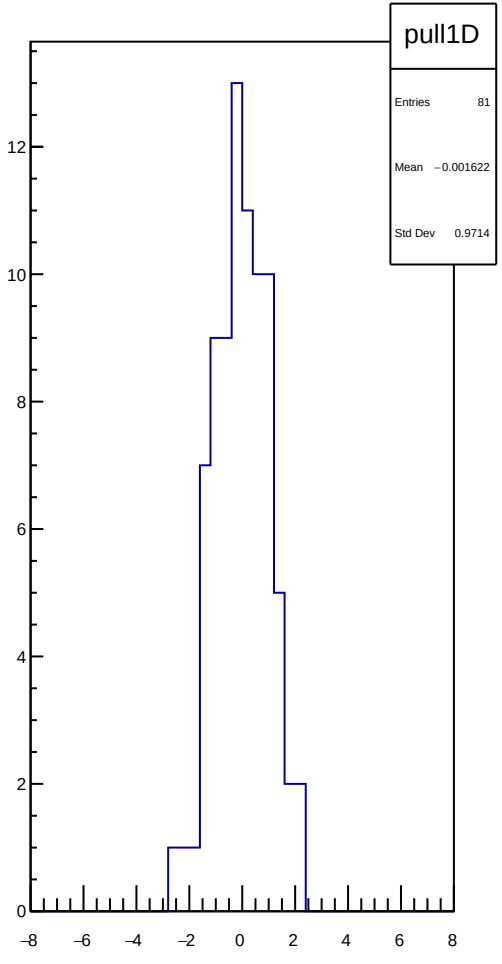

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 109.1 / 80
p0 1214 ± 0.9753
1250
1240
1230
1220
1210
1200
1190
1180

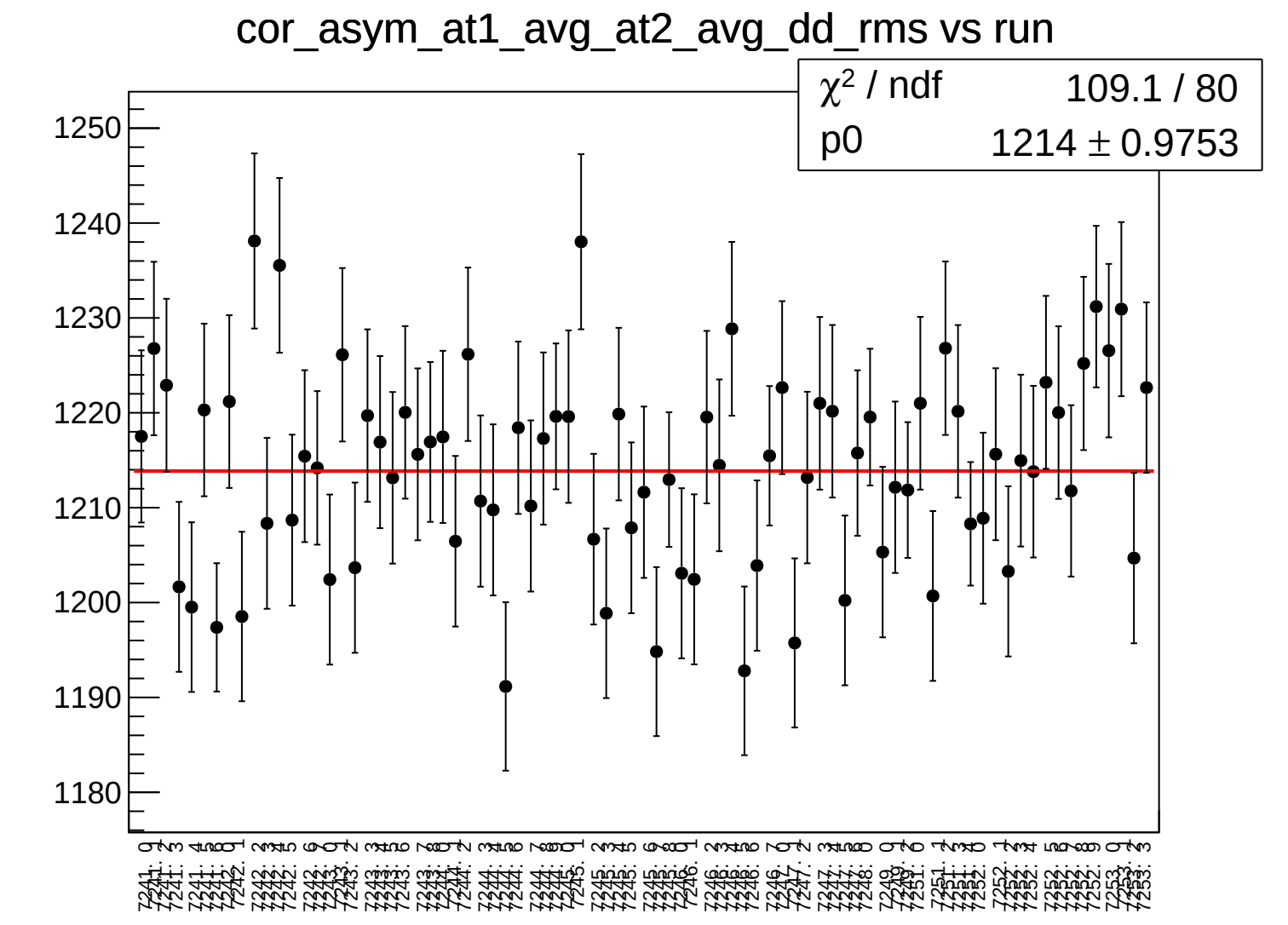

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 94.43 / 80
p0 565.4 ± 4390
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean −102.9
Std Dev 0
2
1
0
−1
−2

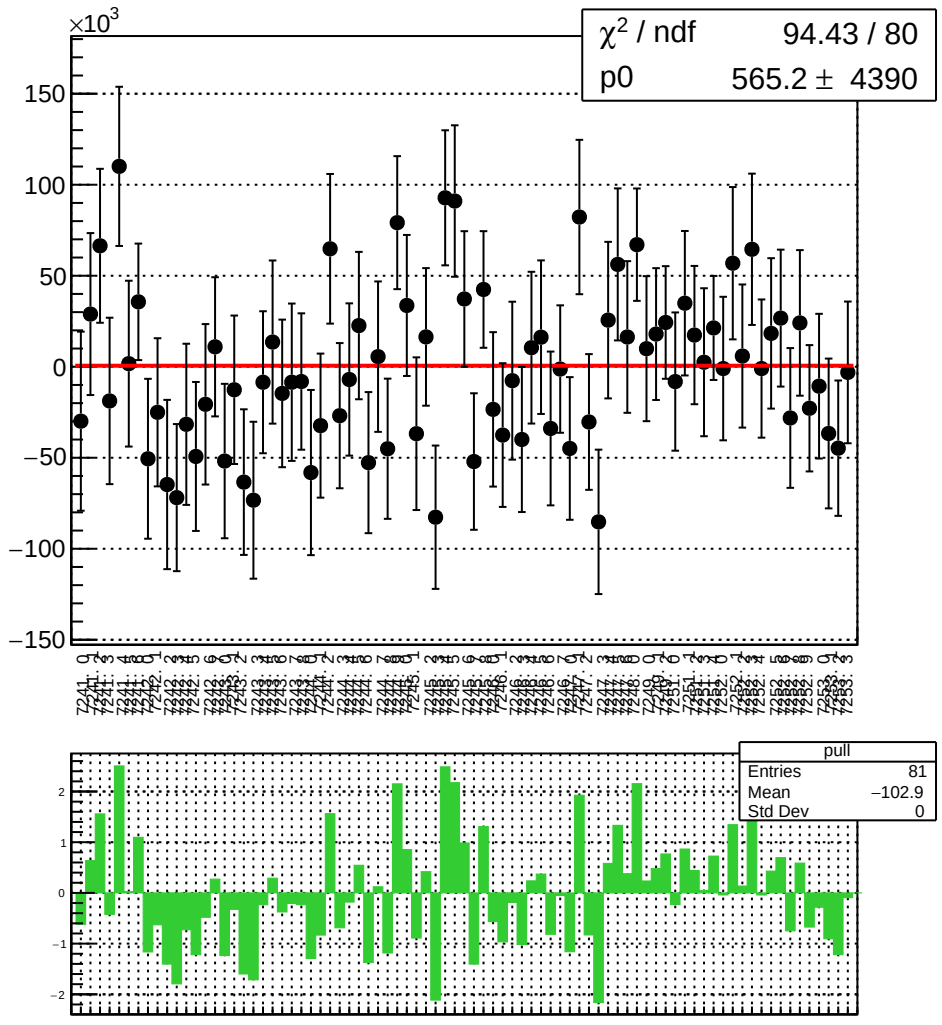

pull1D
Entries 81
Mean −0.0254
Std Dev 1.079
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

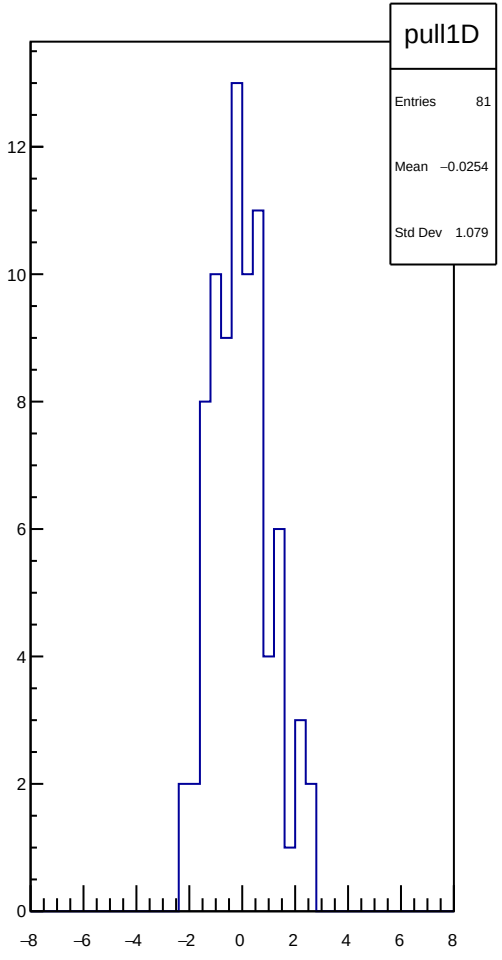

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ² / ndf 5246 / 80
p0 3857 ± 3.104
4800
4600
4400
4200
4000
3800
3600
3400

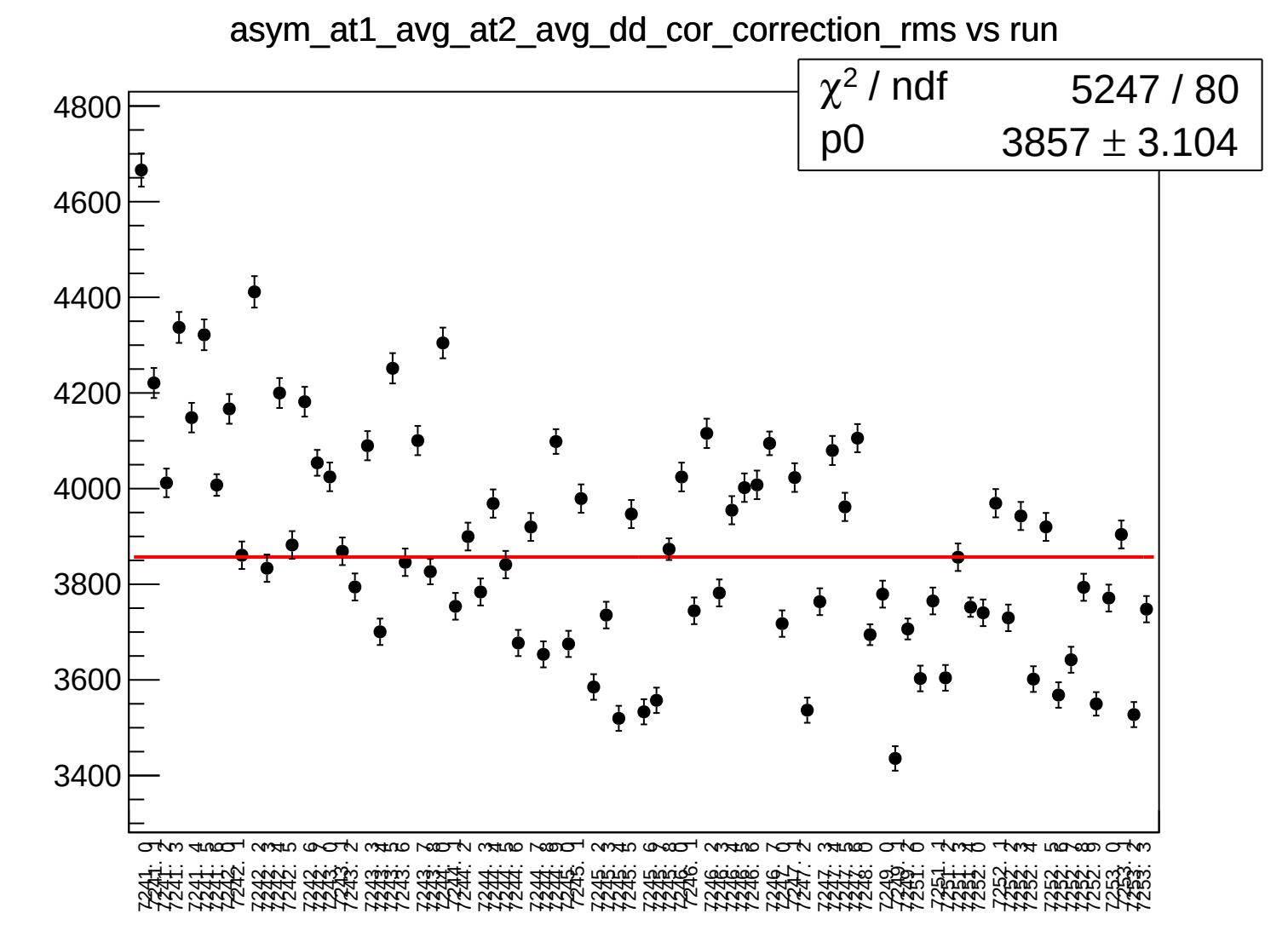

cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 76.44 / 80
p0 −2.97 ± 1379
40000
20000
0
−20000
−40000
pull
Entries 81
Mean 2309
Std Dev 0
2
1
0
−1
−2

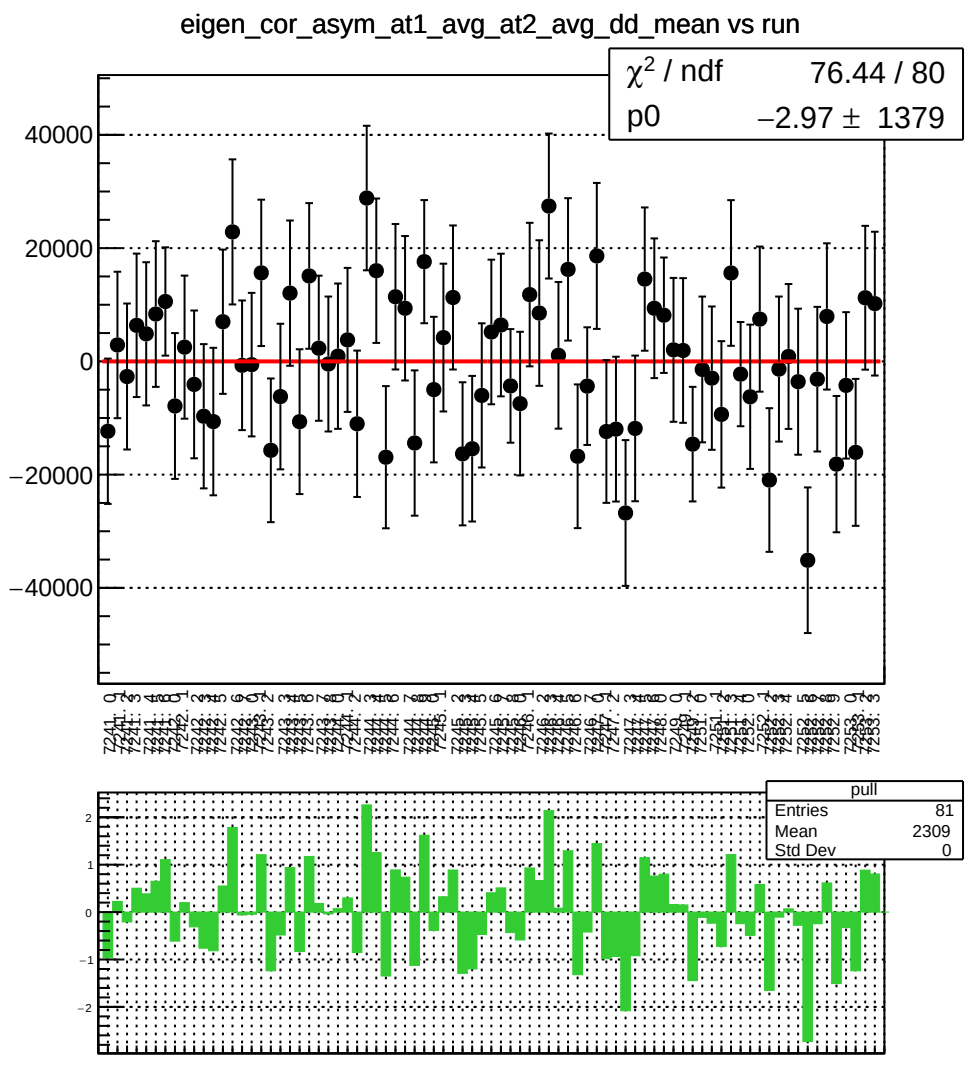

pull1D
Entries 81
Mean −0.001622
Std Dev 0.9714
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

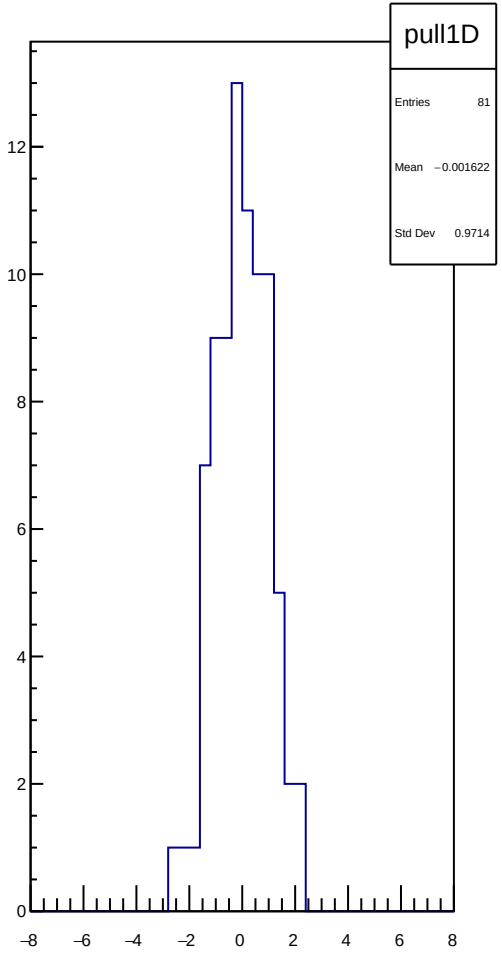

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 109.1 / 80
p0 1214 ± 0.9753
1250
1240
1230
1220
1210
1200
1190
1180

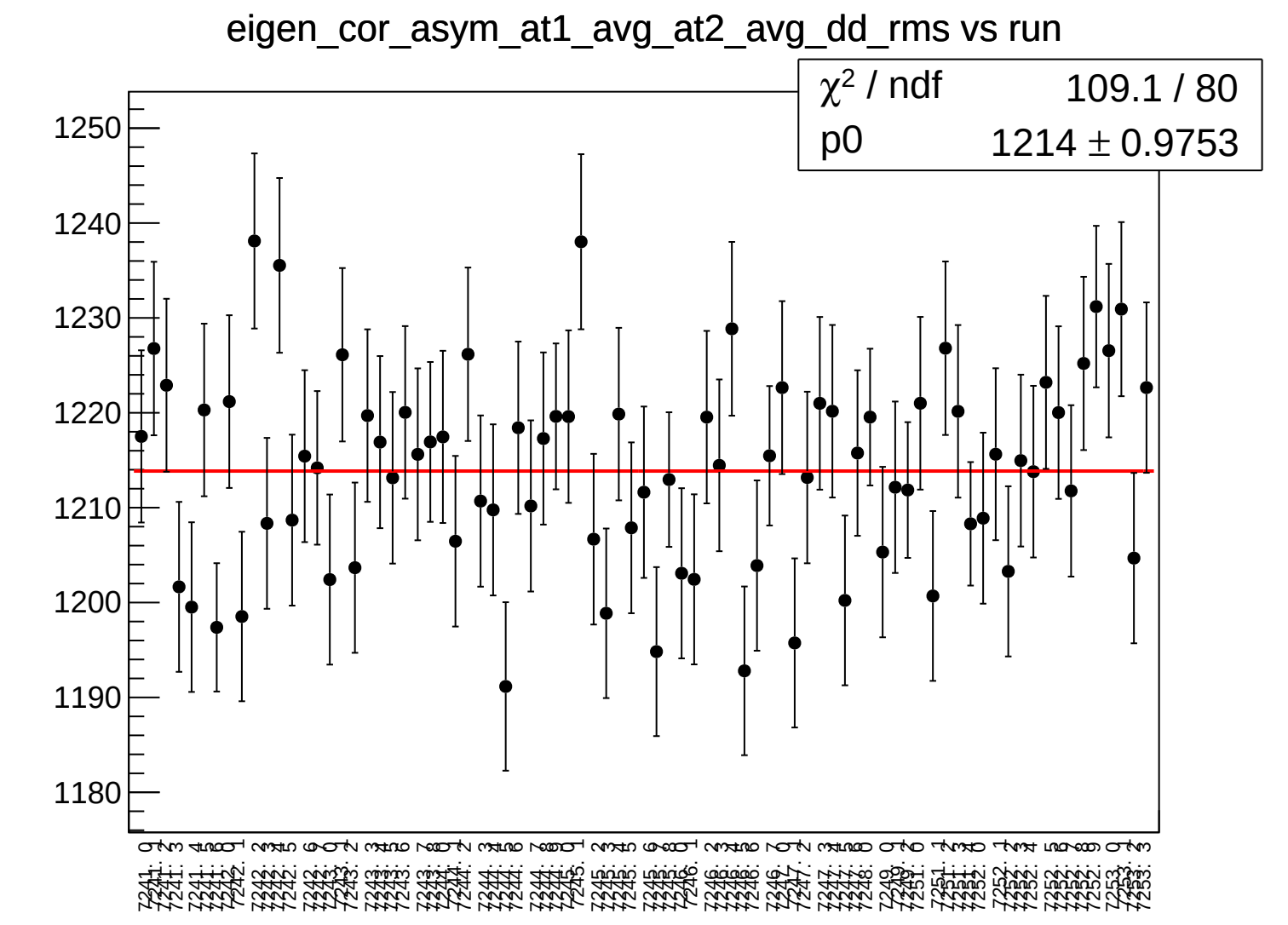

asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 94.43 / 80
p0 565.2 ± 4390
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean −102.9
Std Dev 0
2
1
0
−1
−2

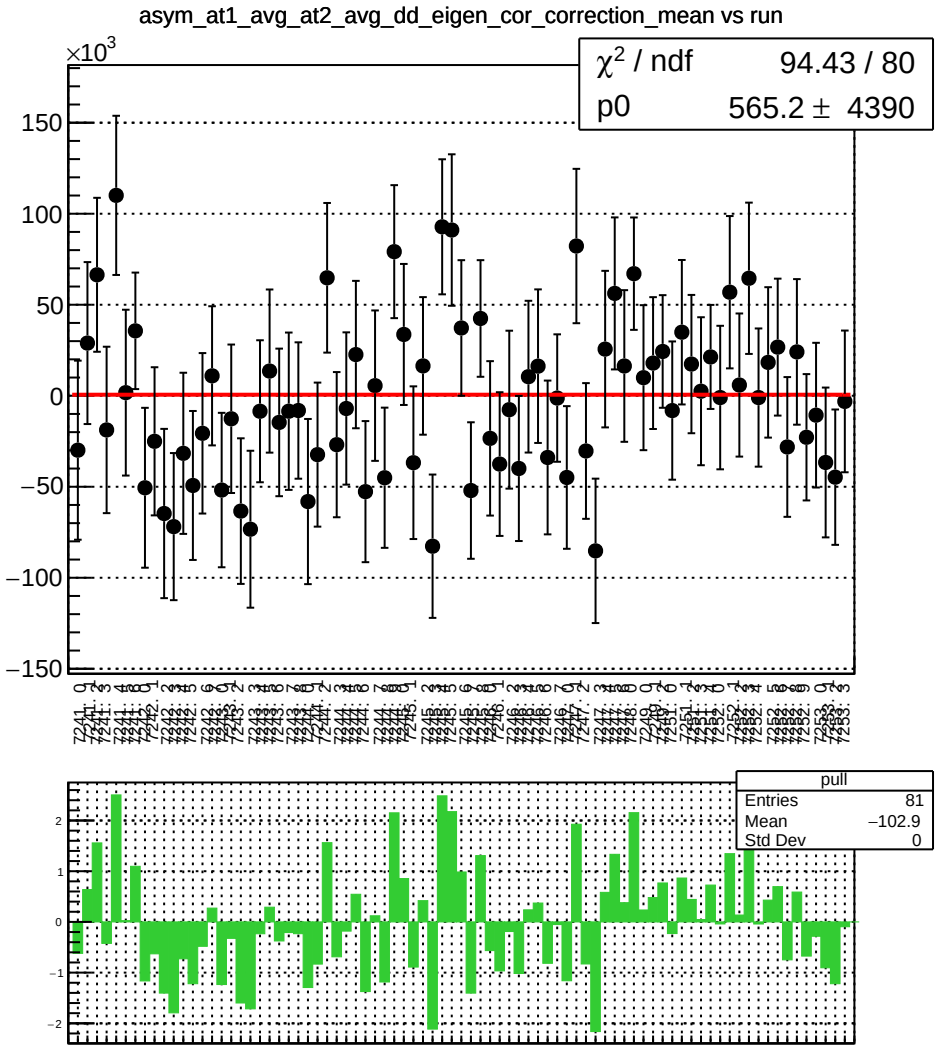

pull1D
Entries 81
Mean −0.0254
Std Dev 1.079
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

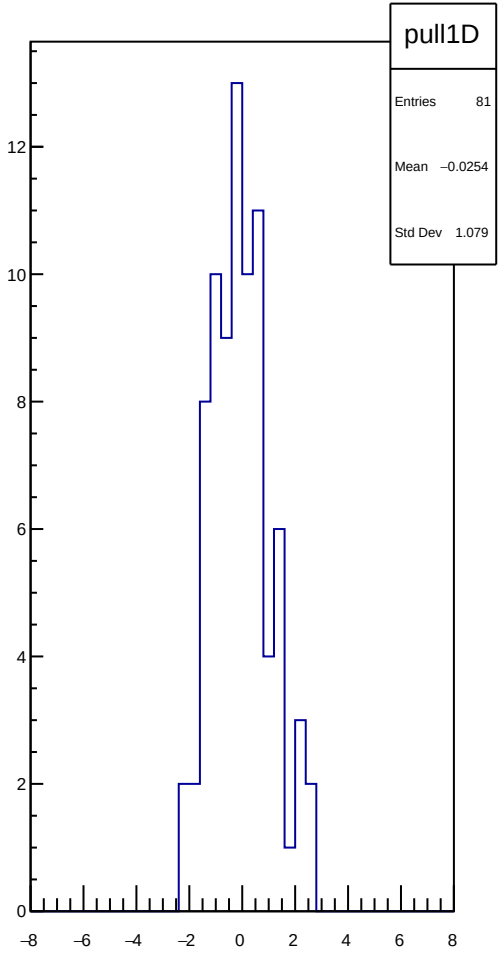

asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 5247 / 80
p0 3857 ± 3.104
4800
4600
4400
4200
4000
3800
3600
3400

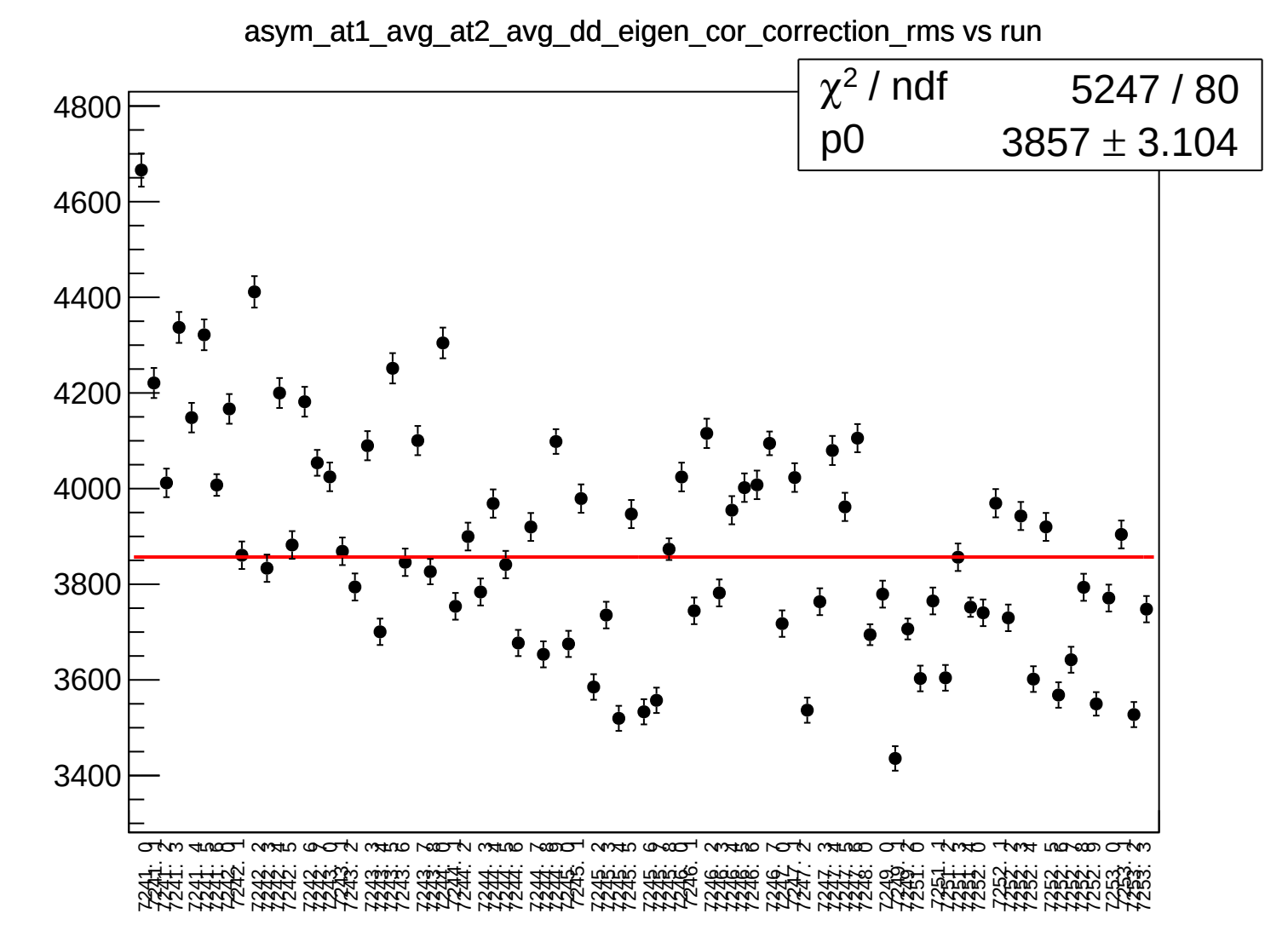

eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 76.44 / 80
p0 −2.97 ± 1379
40000
20000
0
−20000
−40000
pull
Entries 81
Mean 2309
Std Dev 0
2
1
0
−1
−2

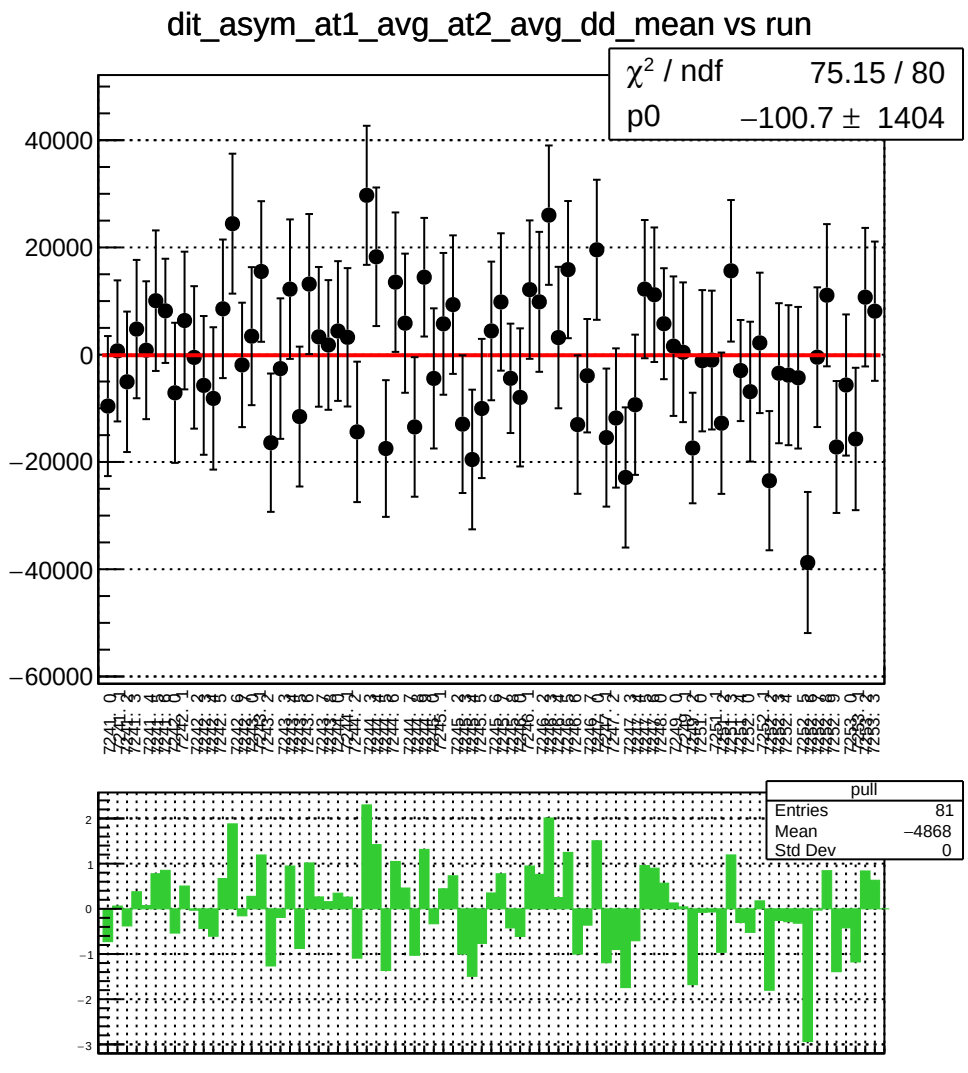

pull1D
Entries 81
Mean −0.001622
Std Dev 0.9714
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

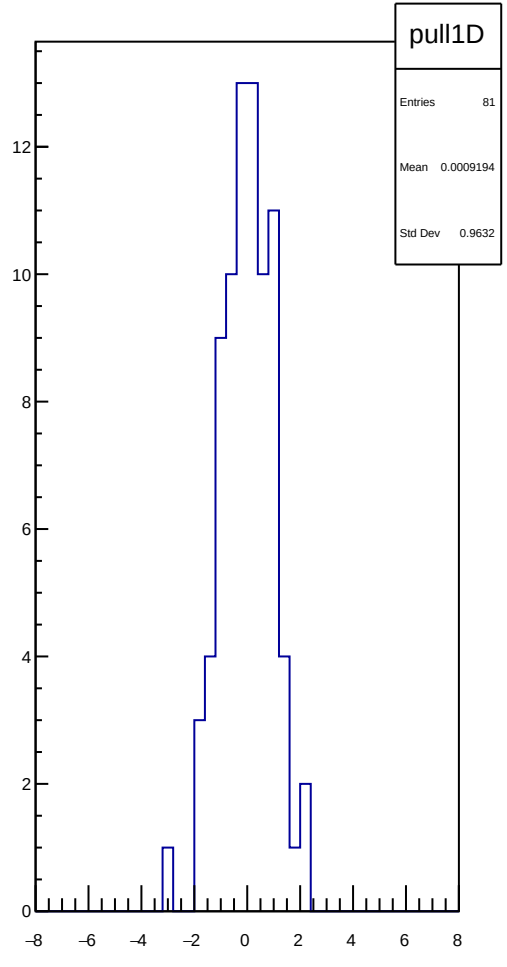

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 109.1 / 80
p0 1214 ± 0.9753
1250
1240
1230
1220
1210
1200
1190
1180

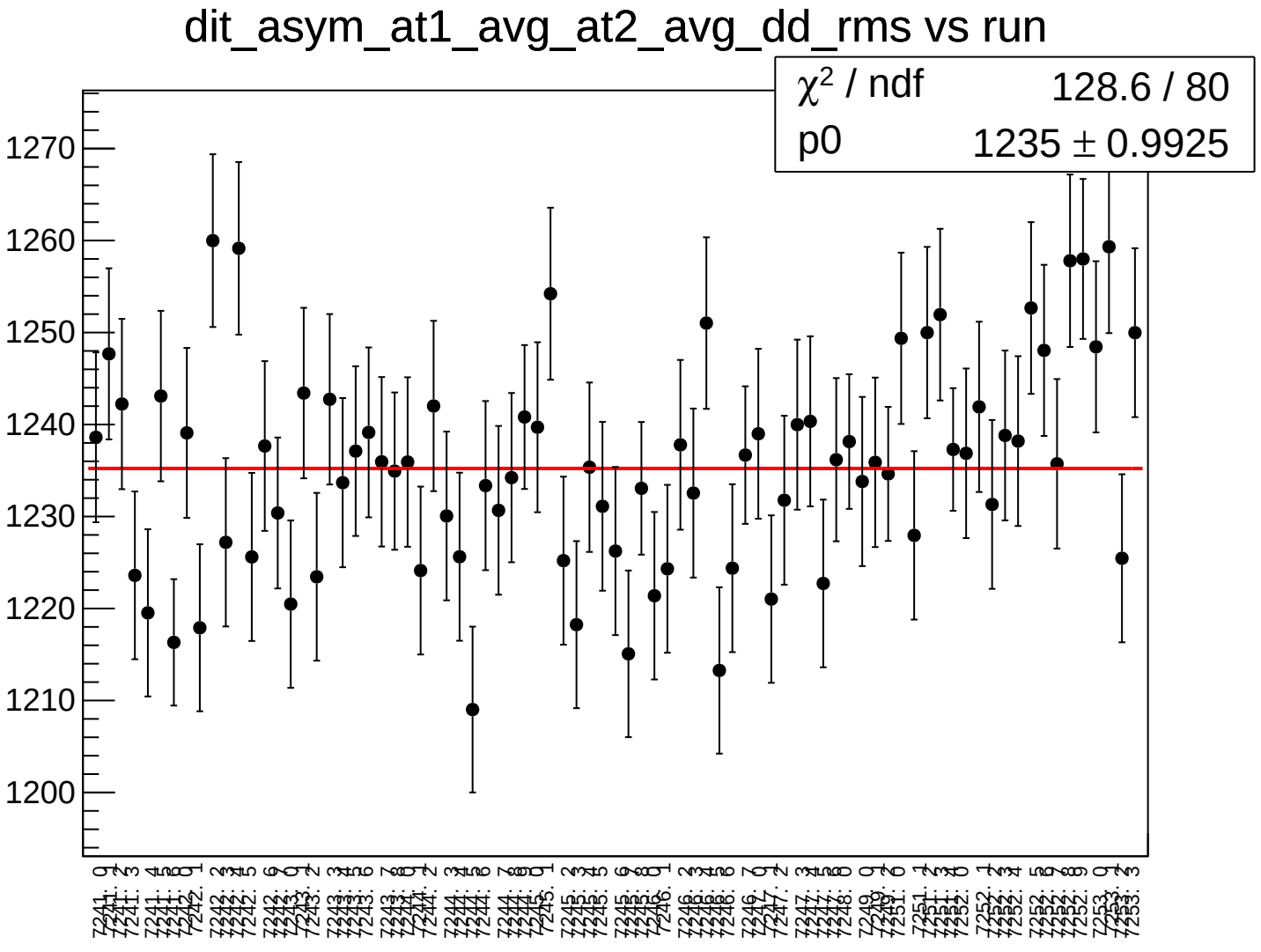

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 94.43 / 80
p0 565.2 ± 4390
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean −102.9
Std Dev 0
2
1
0
−1
−2

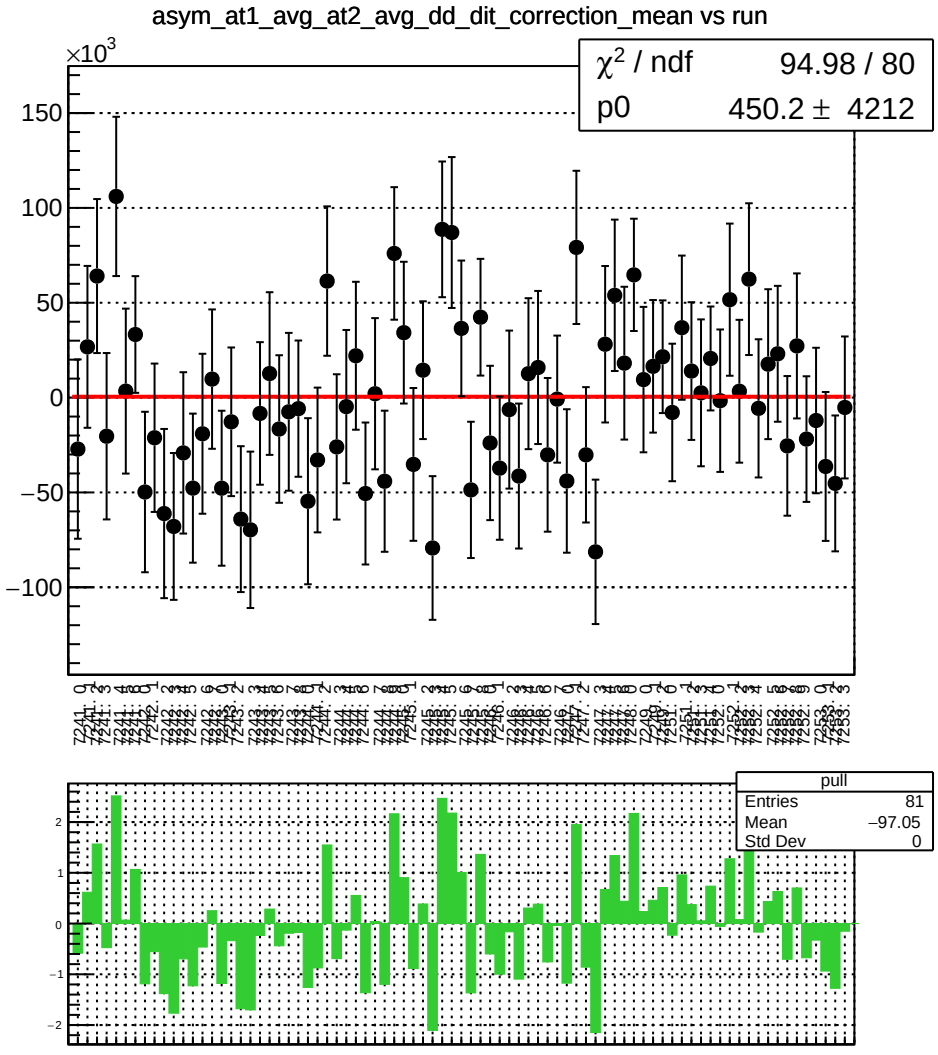

pull1D
Entries 81
Mean −0.0254
Std Dev 1.079
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

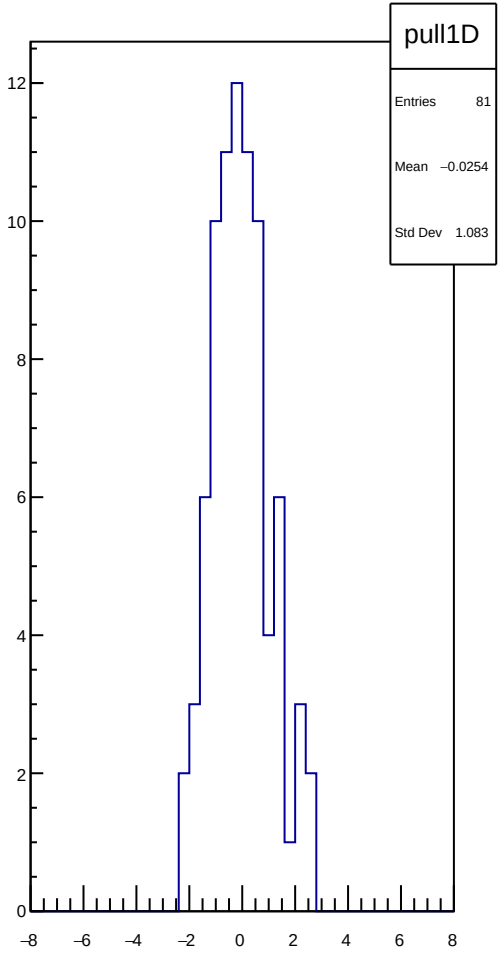

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 5247 / 80
p0 3857 ± 3.104
4800
4600
4400
4200
4000
3800
3600
3400

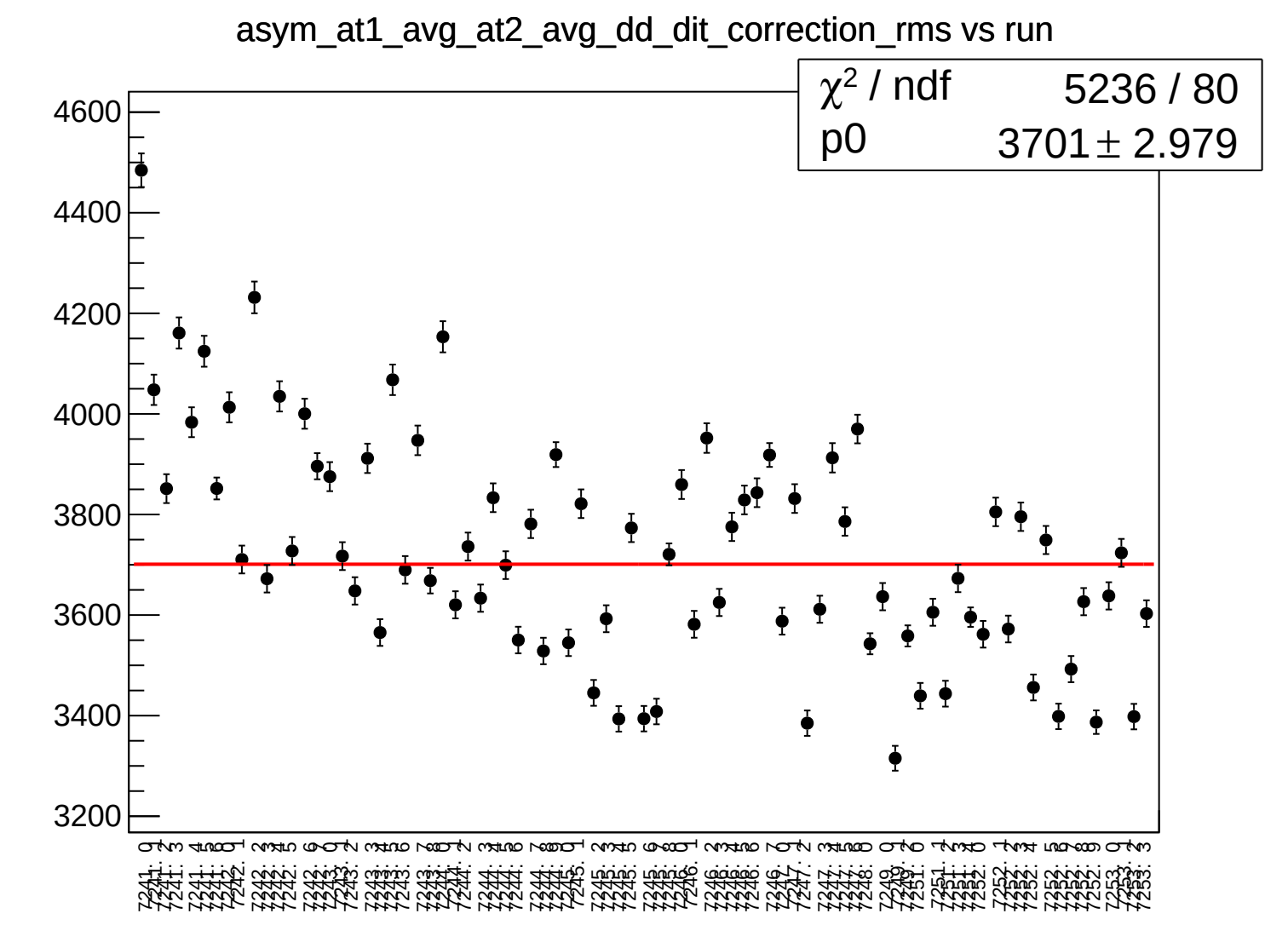

dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 75.15 / 80
p0 −100.7 ± 1404
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −4868
Std Dev 0
2
1
0
−1
−2
−3

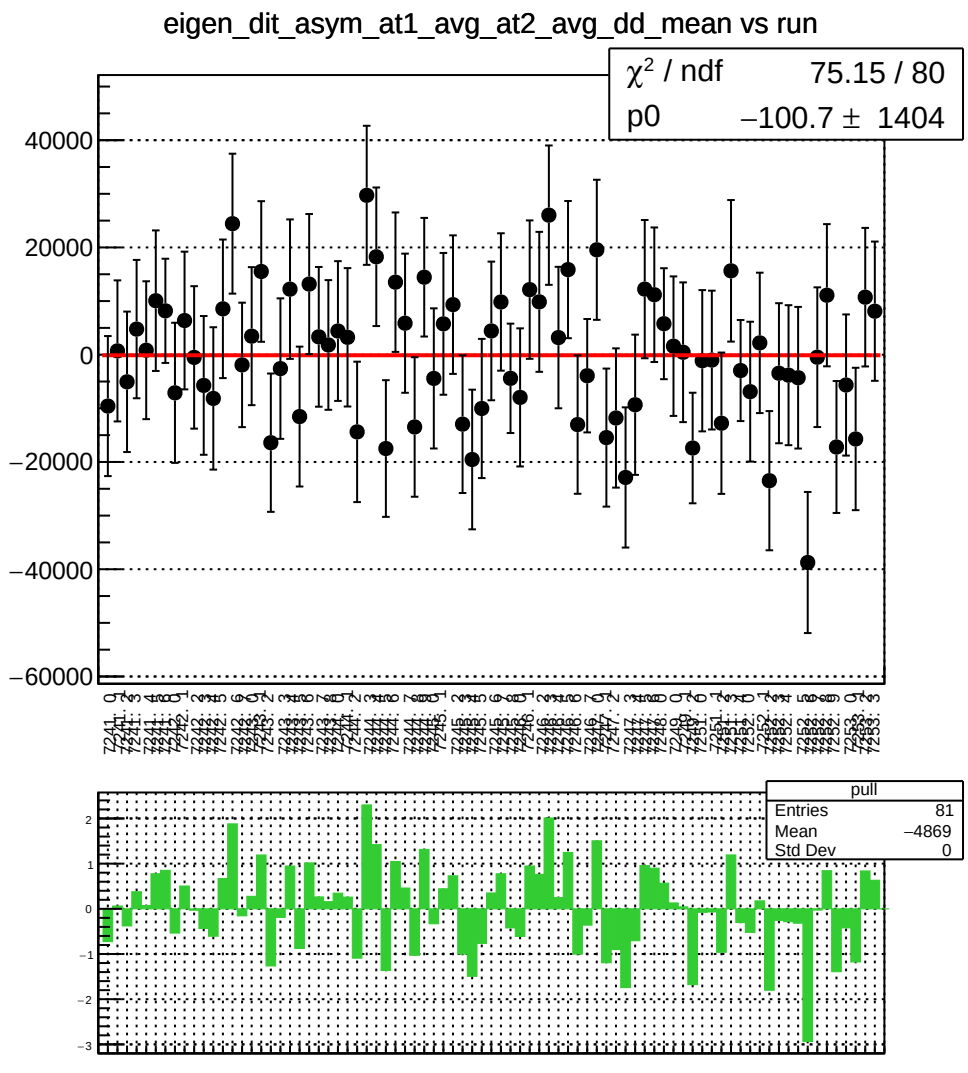

pull1D
Entries 81
Mean 0.0009194
Std Dev 0.9632
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

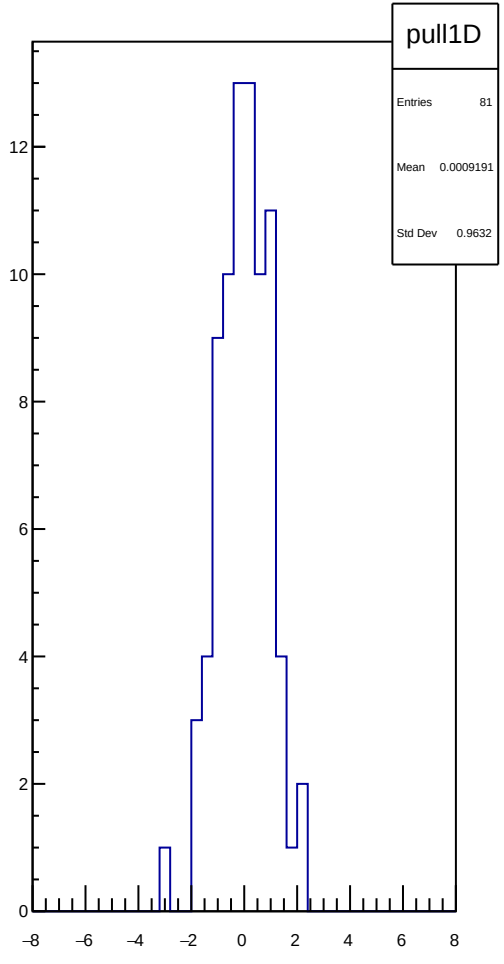

dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 128.6 / 80
p0 1235 ± 0.9925
1270
1260
1250
1240
1230
1220
1210
1200

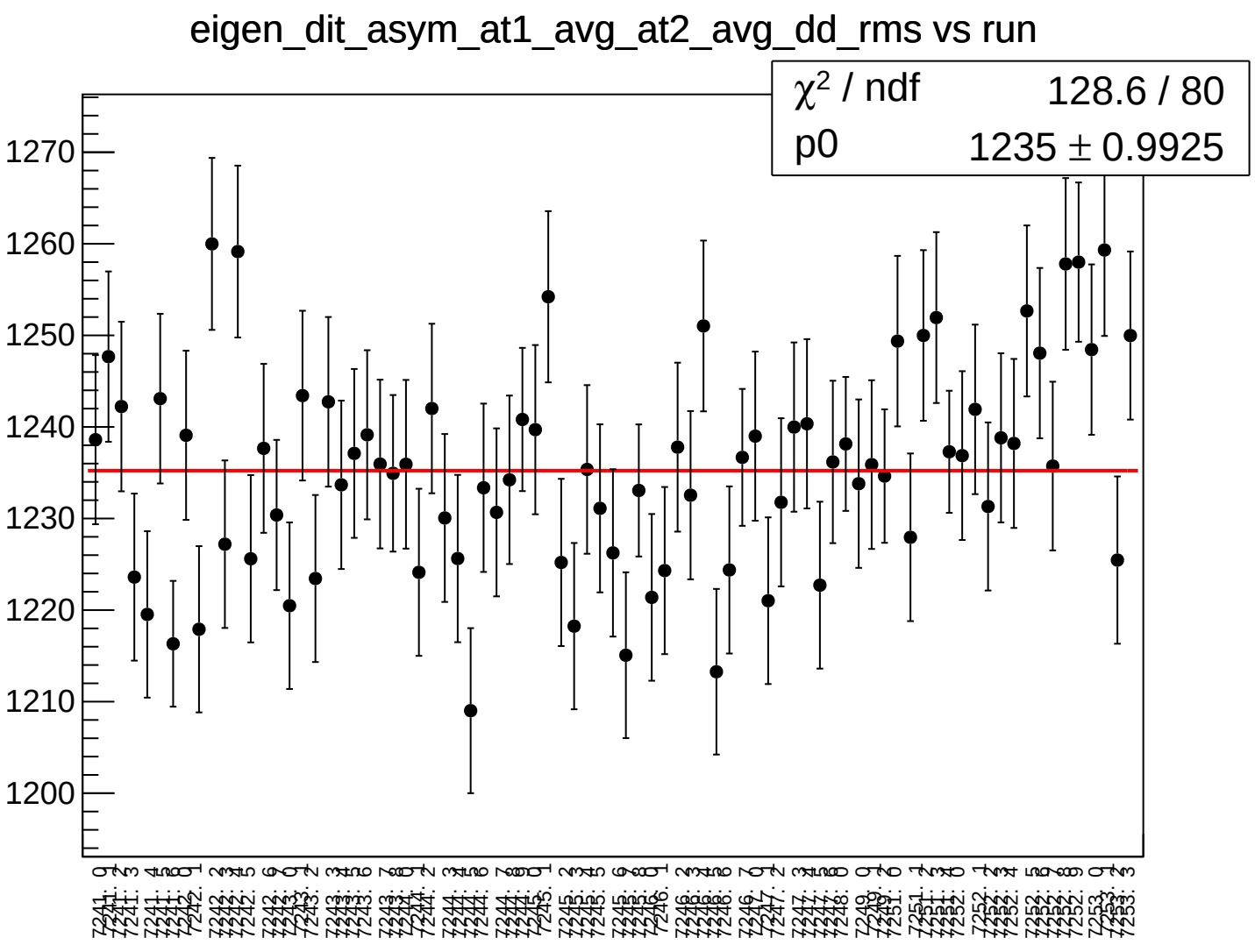

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 94.98 / 80
p0 450.2 ± 4212
150
100
50
0
−50
−100
pull
Entries 81
Mean −97.05
Std Dev 0
2
1
0
−1
−2

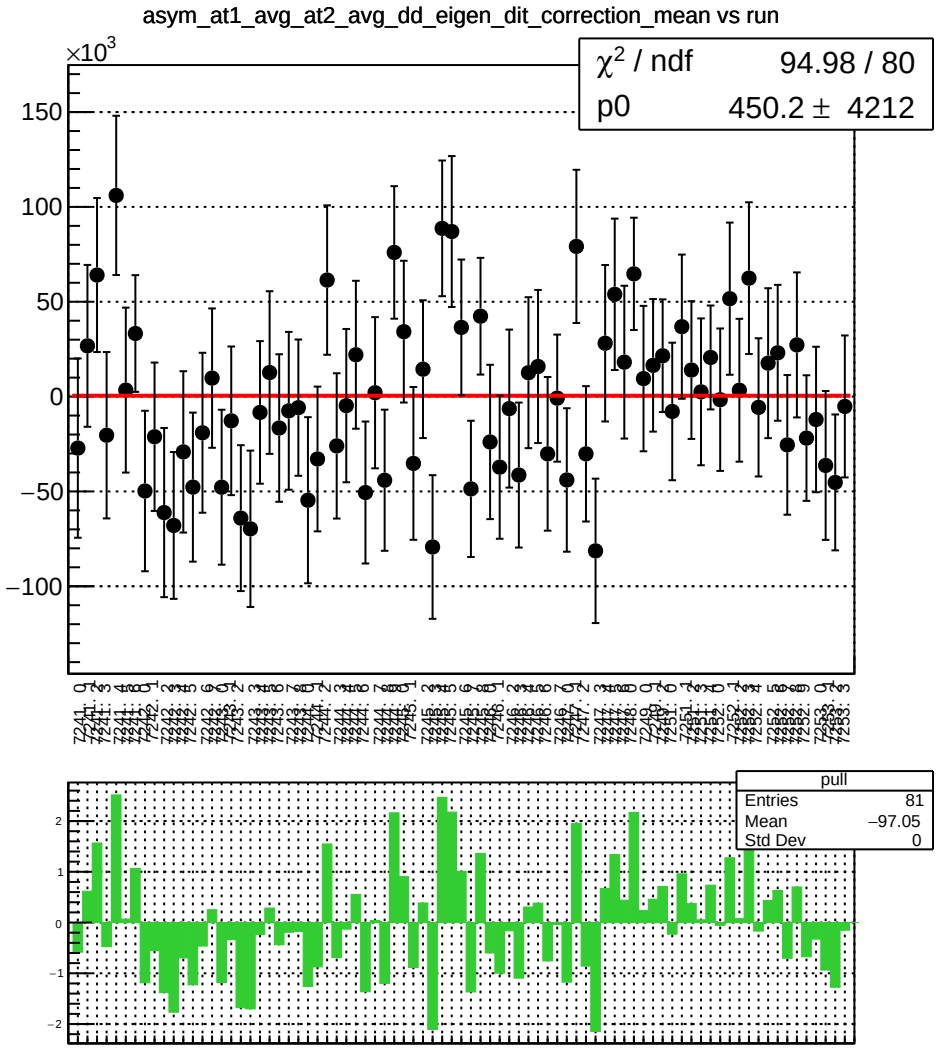

pull1D
Entries 81
Mean −0.0254
Std Dev 1.083
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

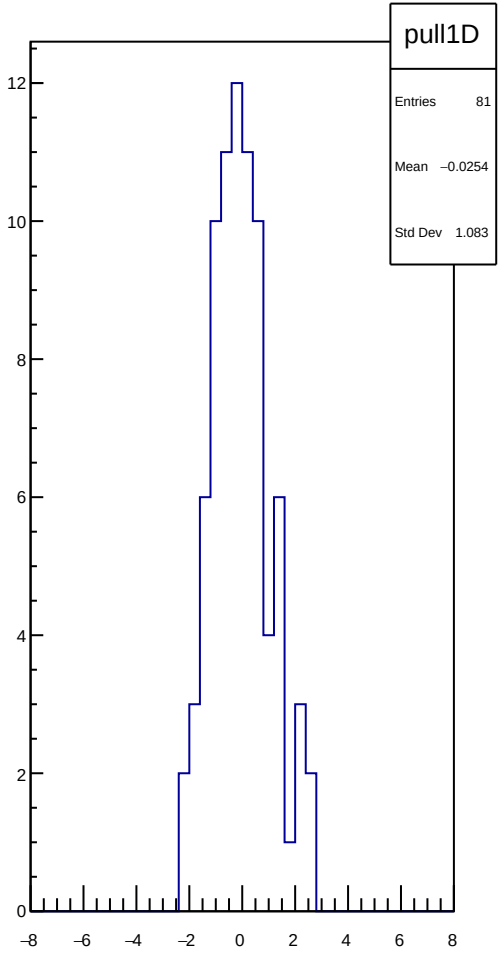

asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 5236 / 80
p0 3701 ± 2.979
4600
4400
4200
4000
3800
3600
3400
3200

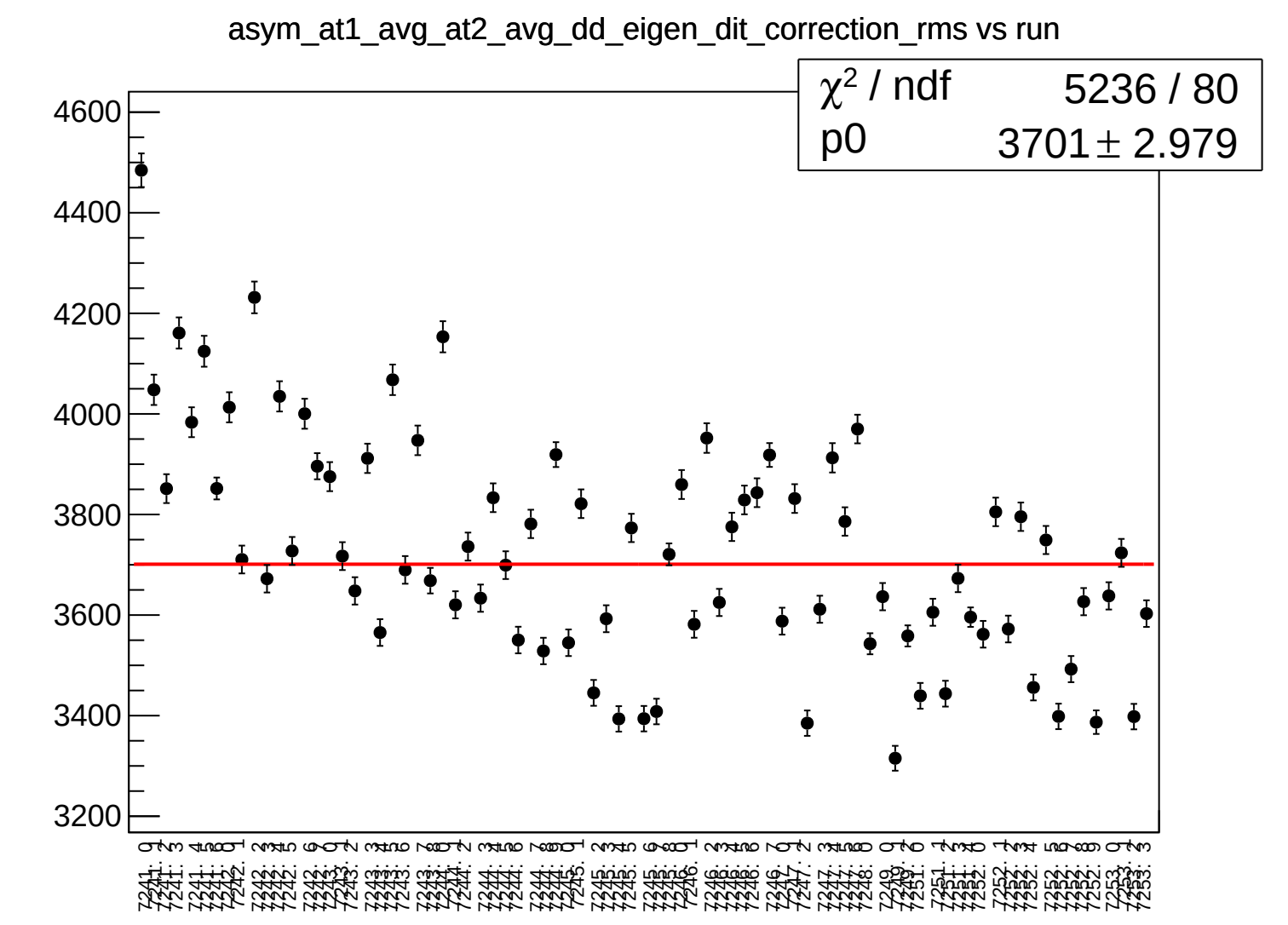

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 75.15 / 80
p0 −100.7 ± 1404
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −4869
Std Dev 0
2
1
0
−1
−2
−3

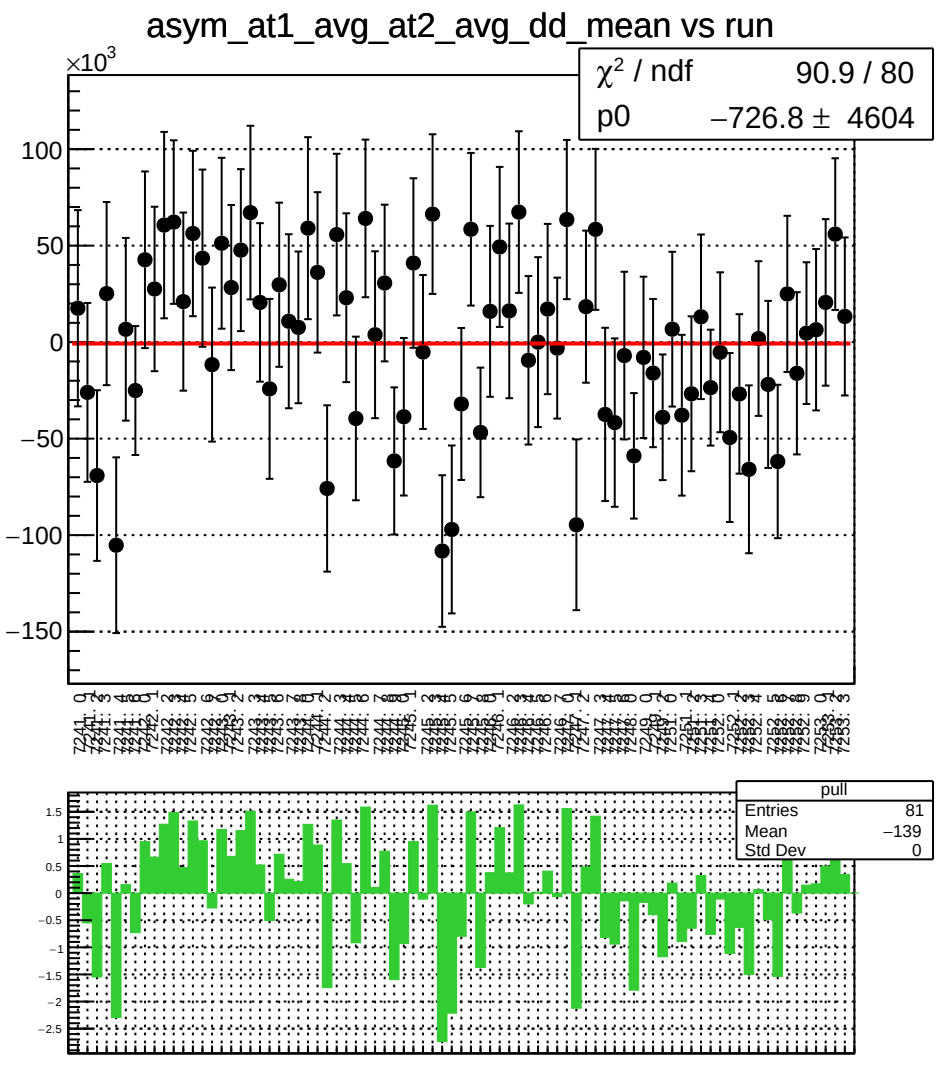

pull1D
Entries 81
Mean 0.0009191
Std Dev 0.9632
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

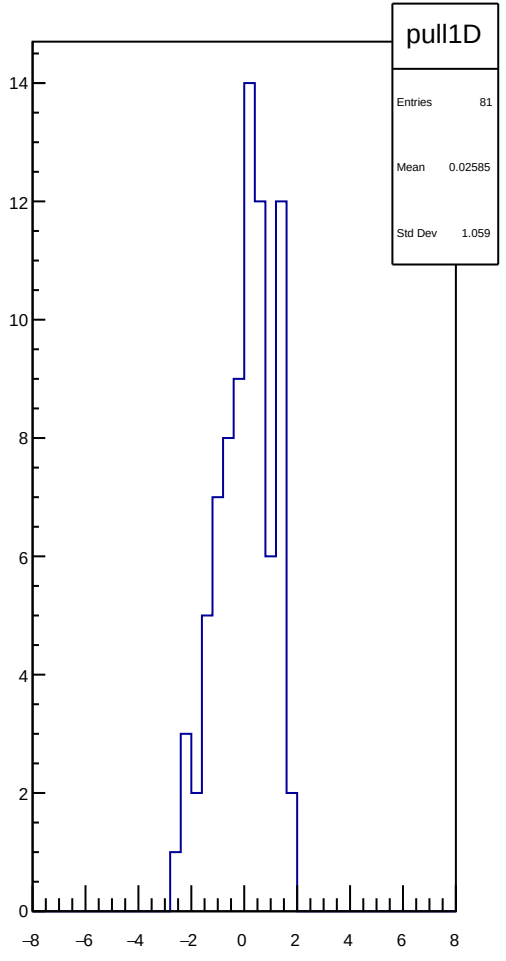

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 128.6 / 80
p0 1235 ± 0.9925
1270
1260
1250
1240
1230
1220
1210
1200

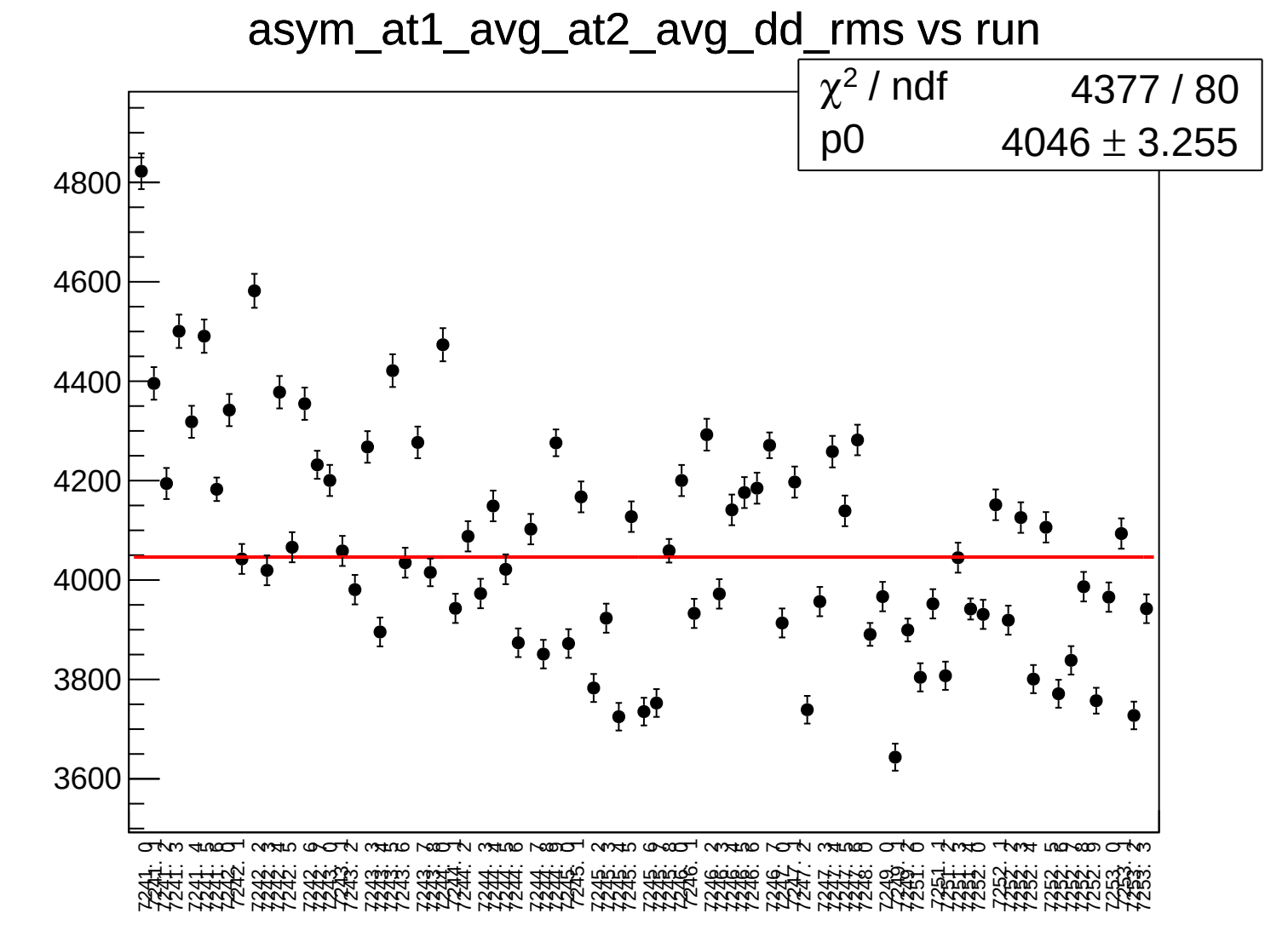

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 94.98 / 80
p0 450.2 ± 4212
150
100
50
0
−50
−100
pull
Entries 81
Mean −97.05
Std Dev 0
2
1
0
−1
−2

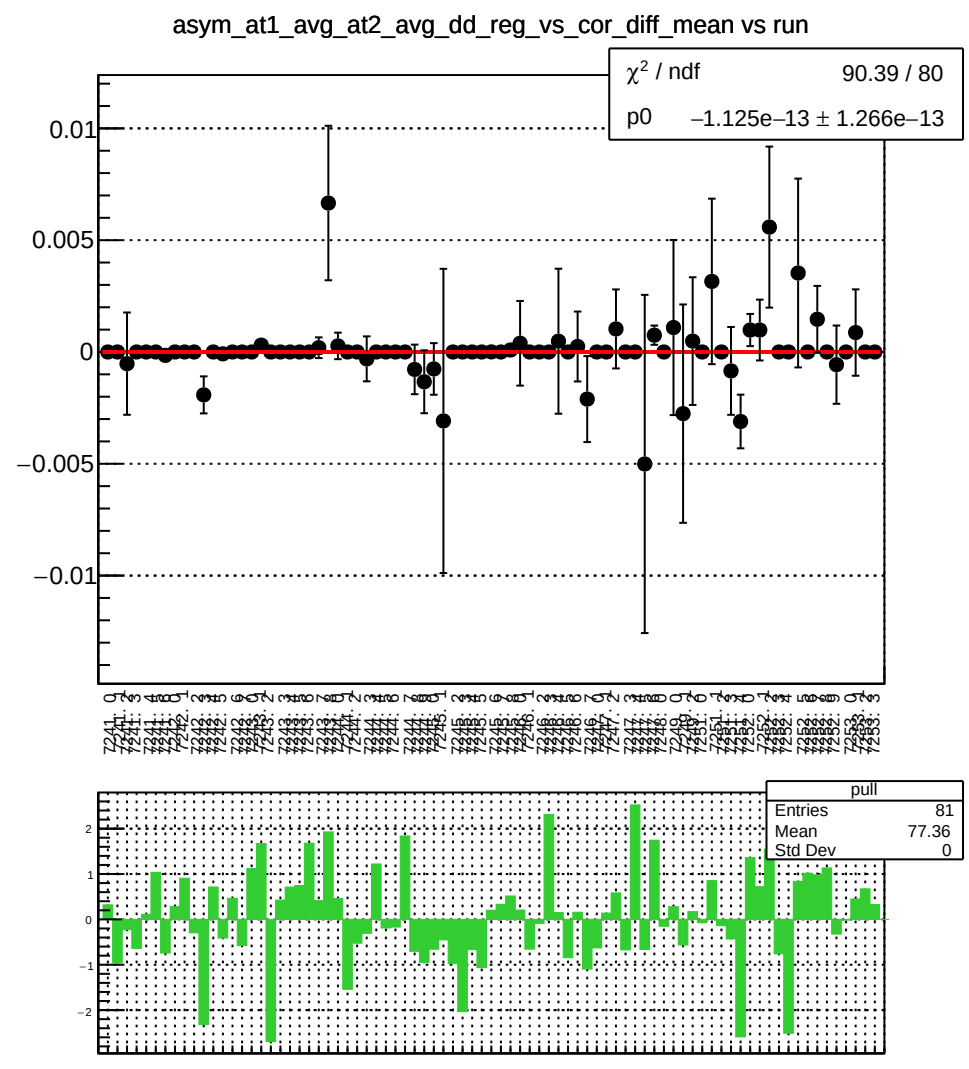

pull1D
Entries 81
Mean −0.0254
Std Dev 1.083
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

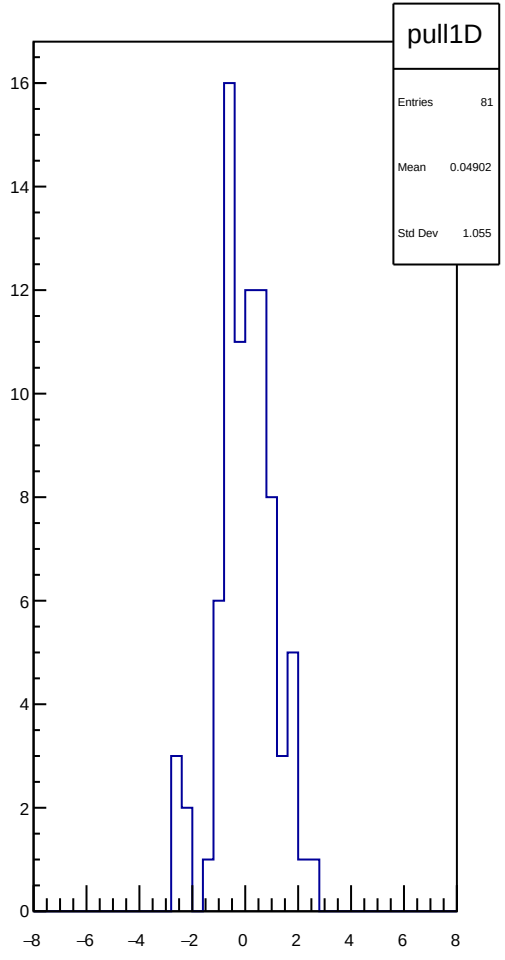

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 5236 / 80
p0 3701 ± 2.979
4600
4400
4200
4000
3800
3600
3400
3200

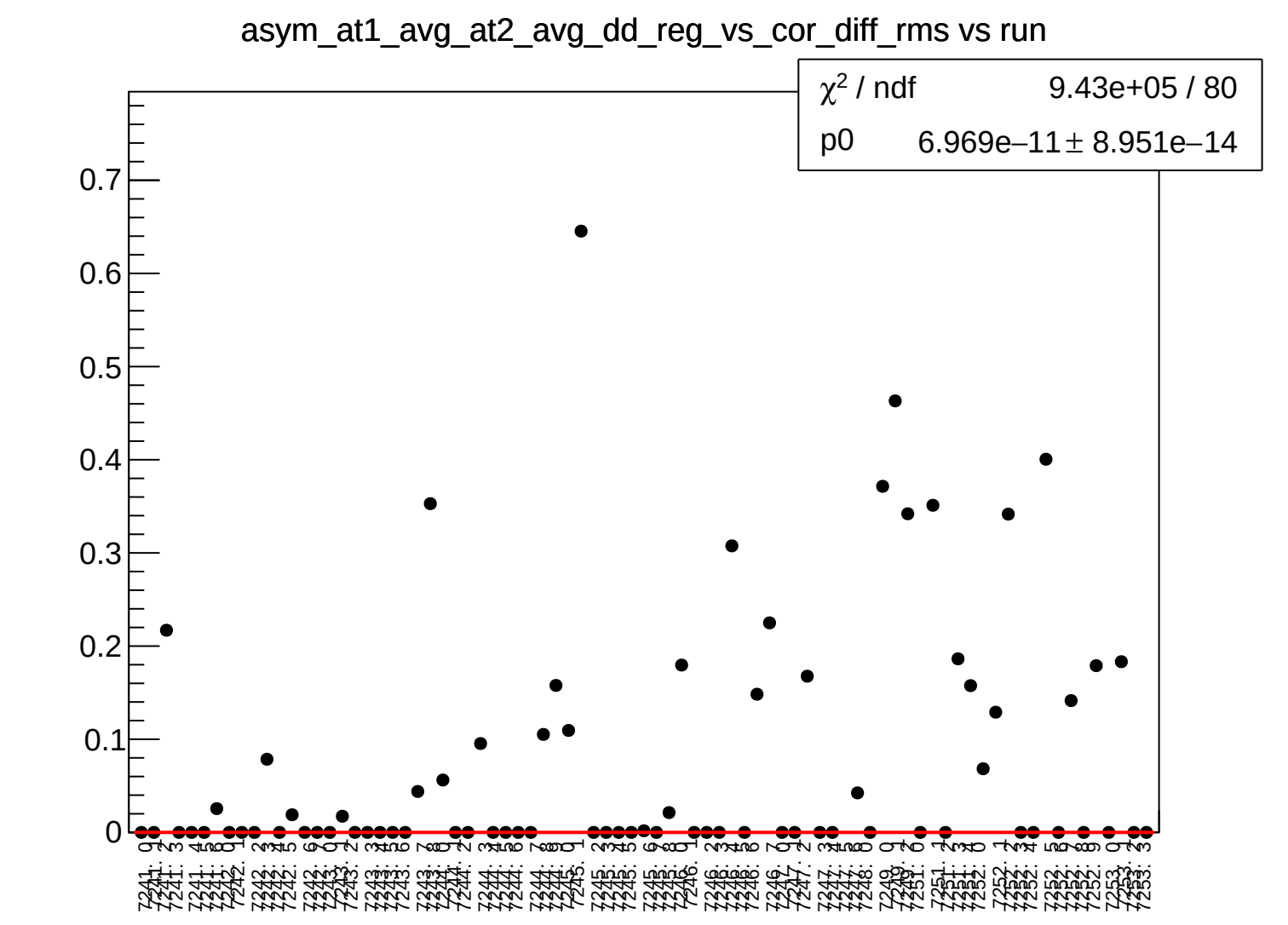

asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 90.9 / 80
p0 −726.8 ± 4604
100
50
0
−50
−100
−150
pull
Entries 81
Mean −139
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

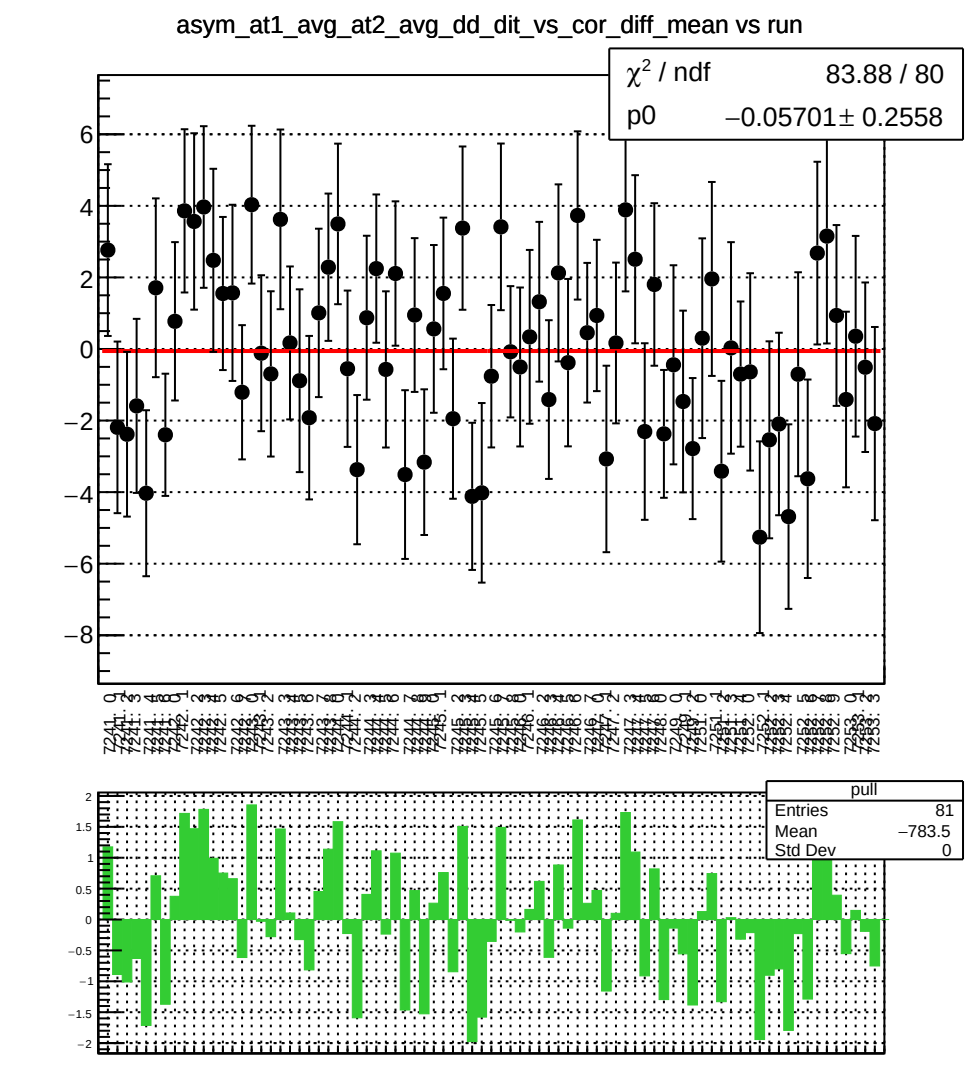

pull1D
Entries 81
Mean 0.02585
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

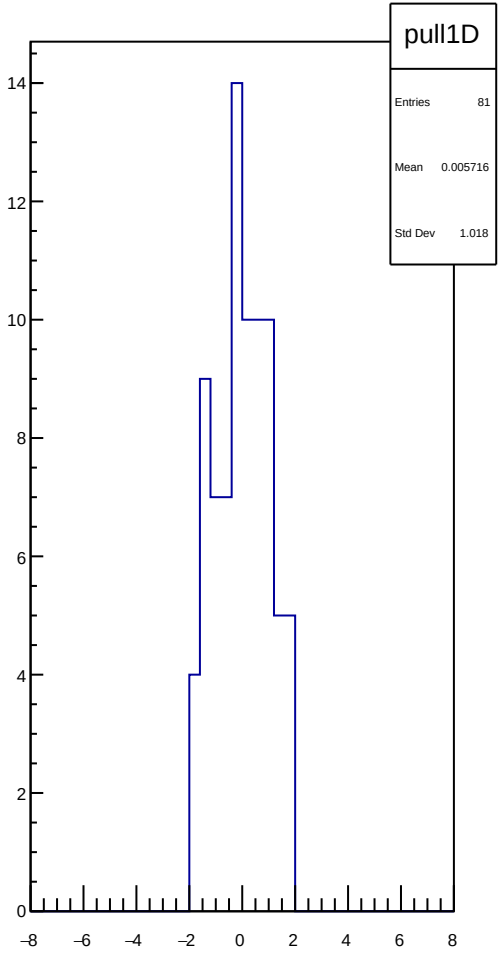

asym_at1_avg_at2_avg_dd_rms vs run
χ^2 / ndf 4377 / 80
p0 4046 ± 3.255
4800
4600
4400
4200
4000
3800
3600

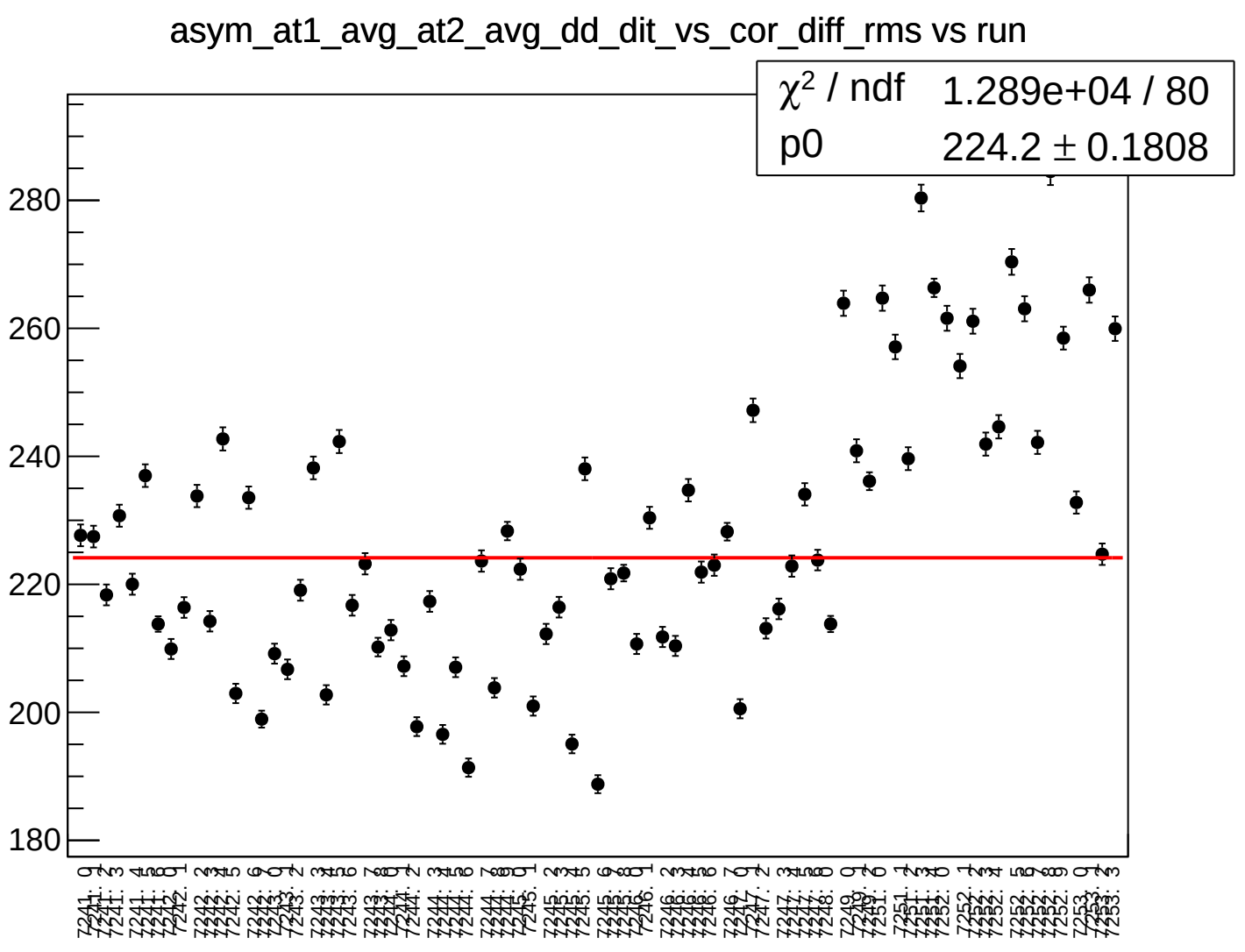

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 90.39 / 80
p0 −1.125e−13 ± 1.266e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 81
Mean 77.36
Std Dev 0
2
1
0
−1
−2

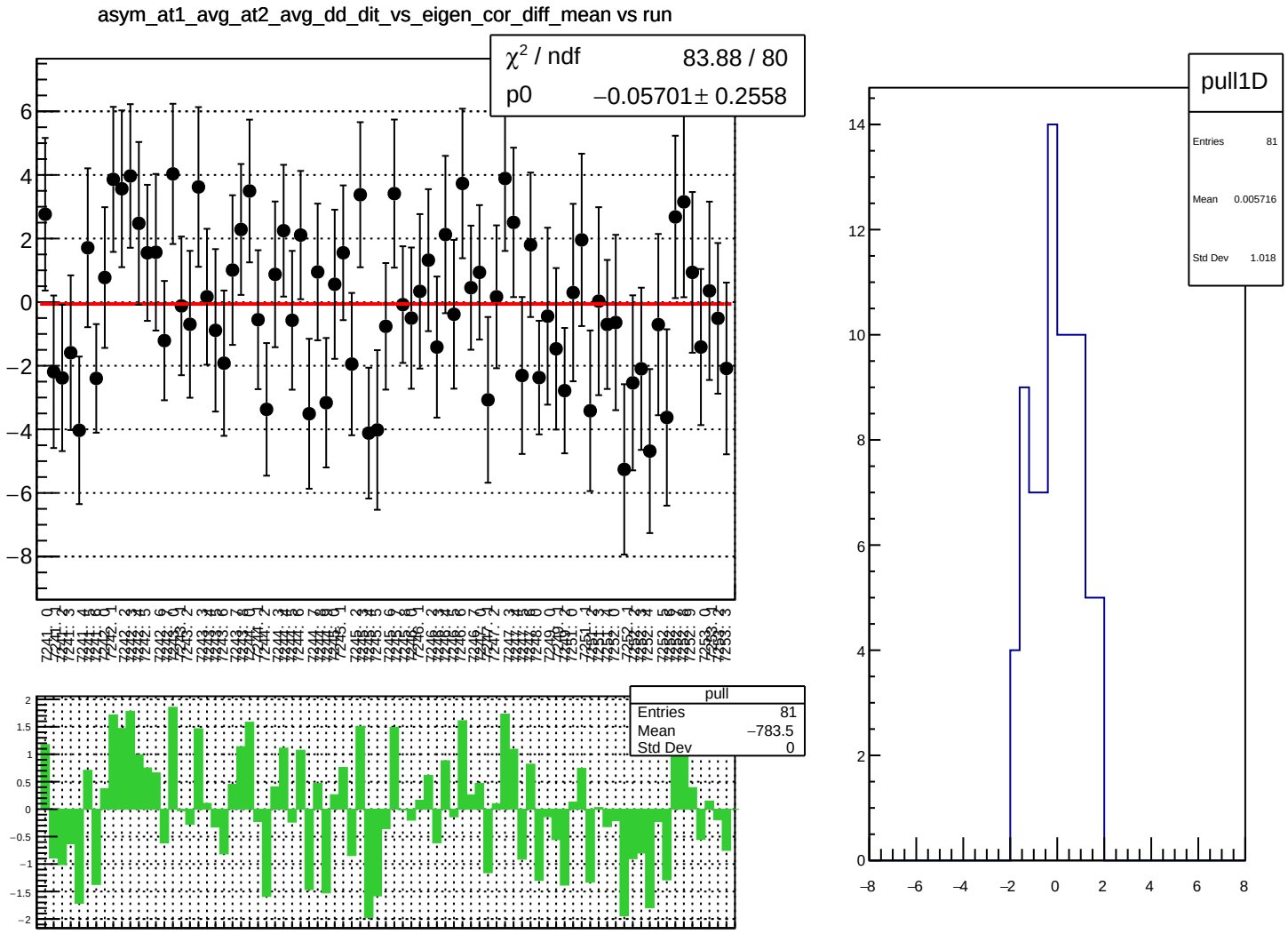

pull1D
Entries 81
Mean 0.04902
Std Dev 1.055
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

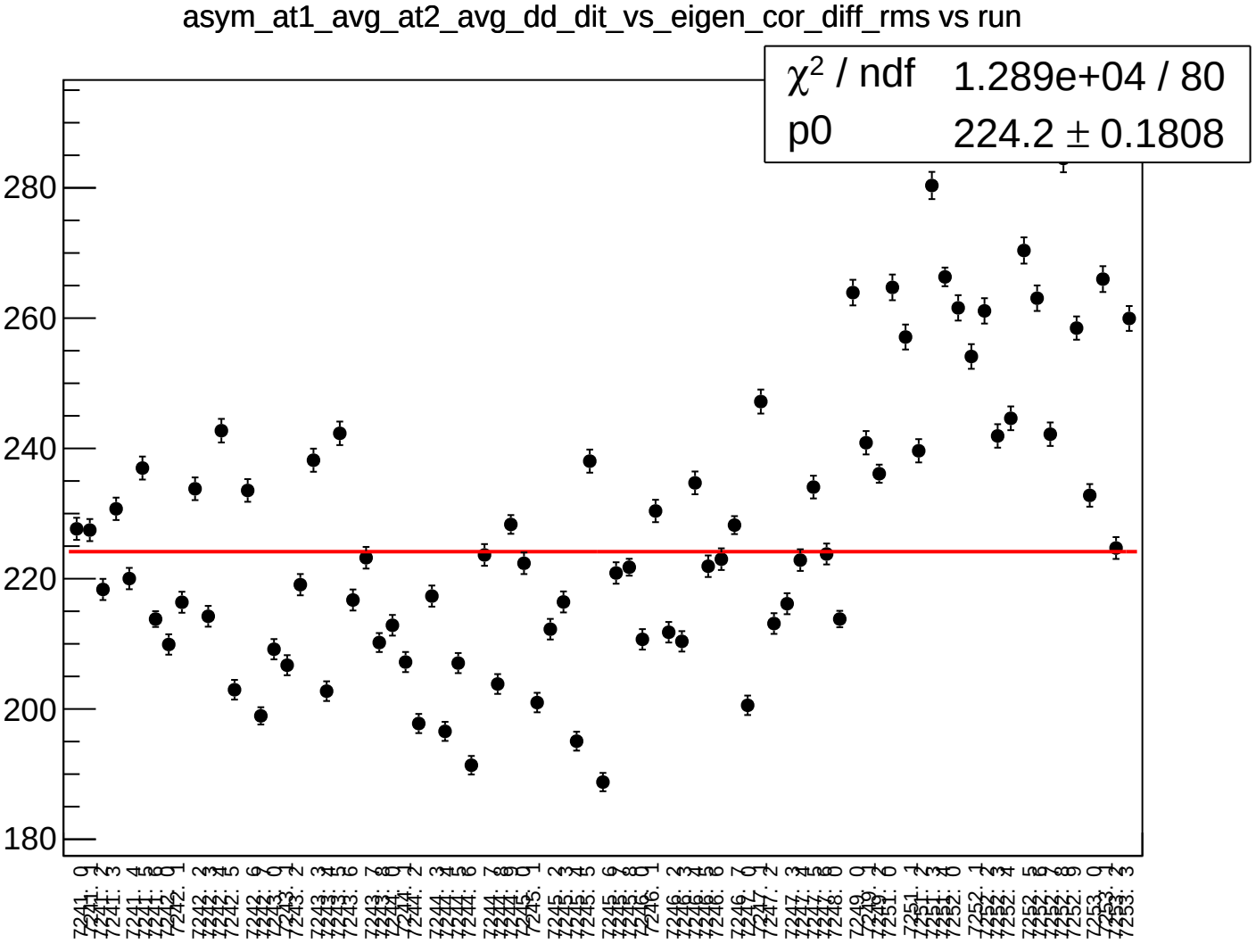

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.43e+05 / 80
p0 6.969e−11 ± 8.951e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

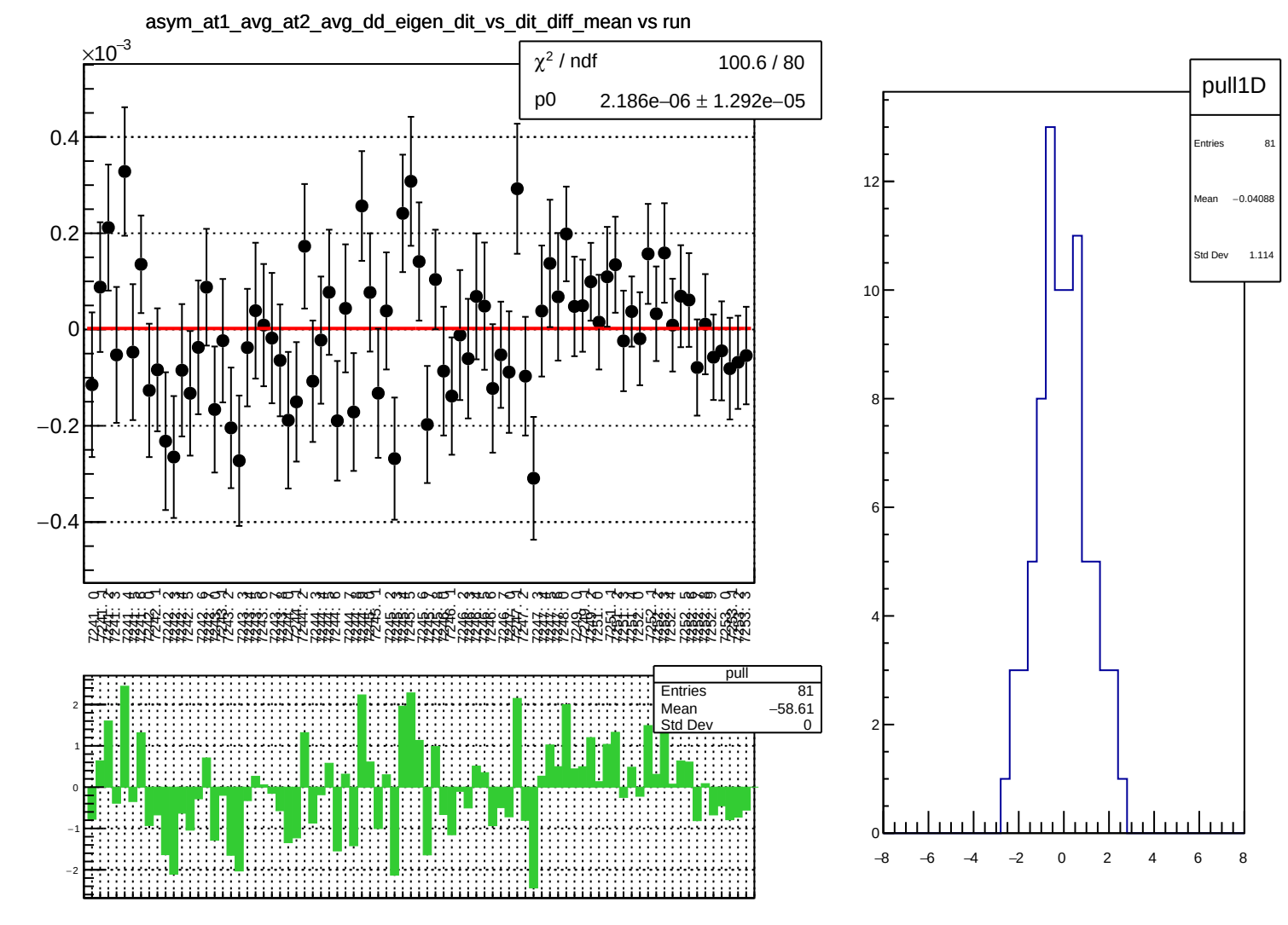

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 83.88 / 80
p0 −0.05701 ± 0.2558
pull
Entries 81
Mean −783.5
Std Dev 0

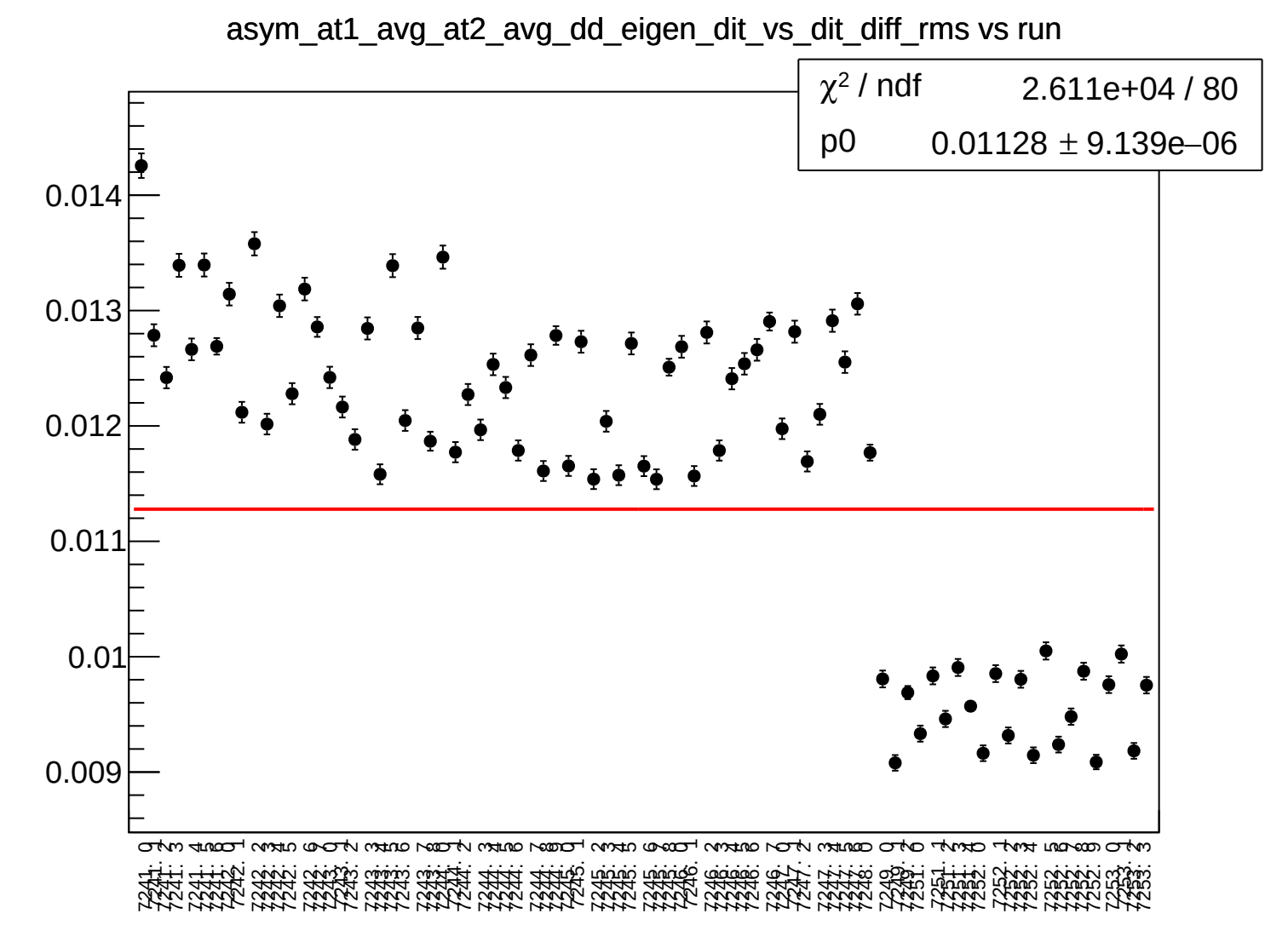

pull1D
Entries 81
Mean 0.005716
Std Dev 1.018

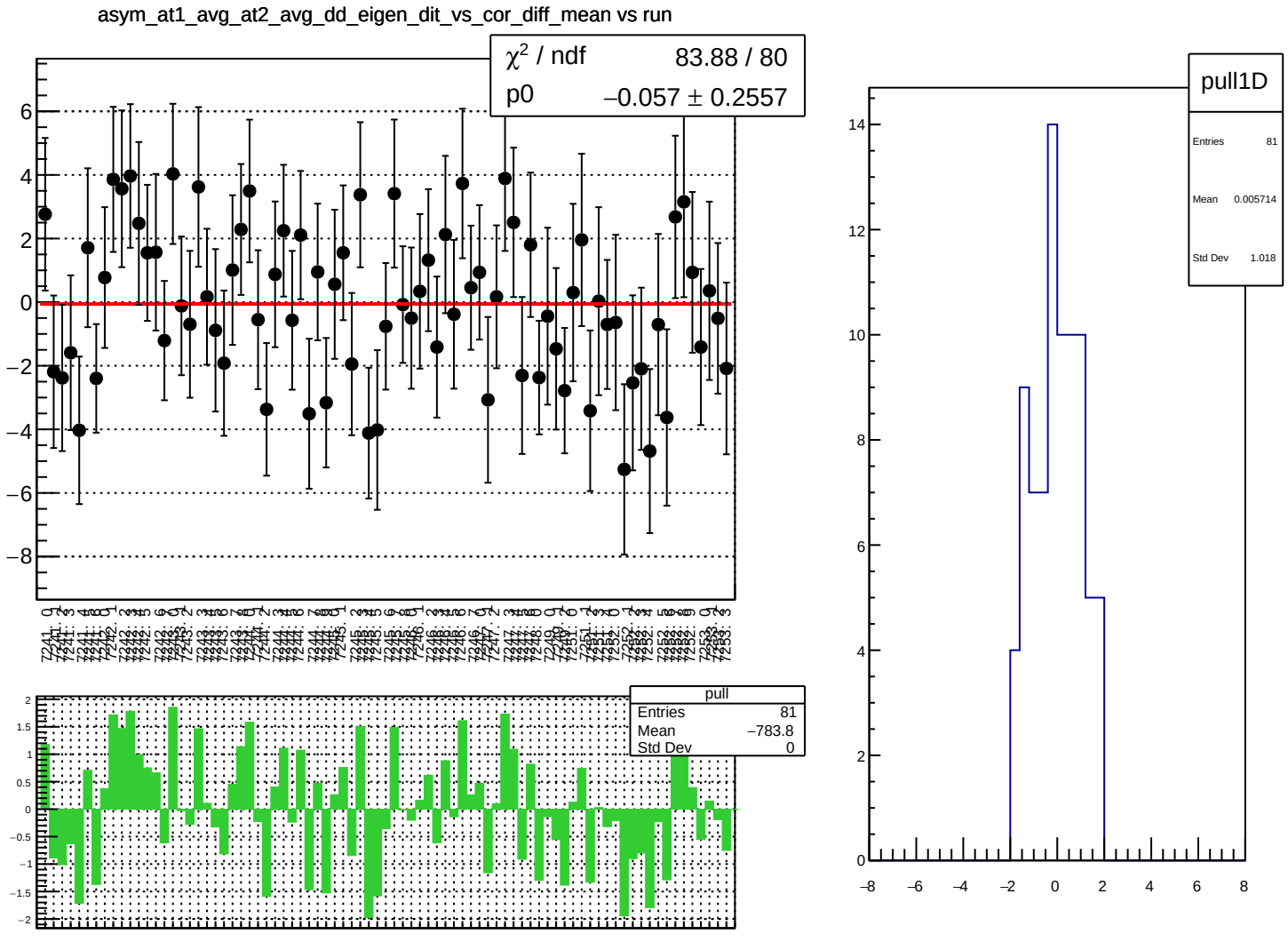

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.289e+04 / 80
p0 224.2 ± 0.1808
280
260
240
220
200
180

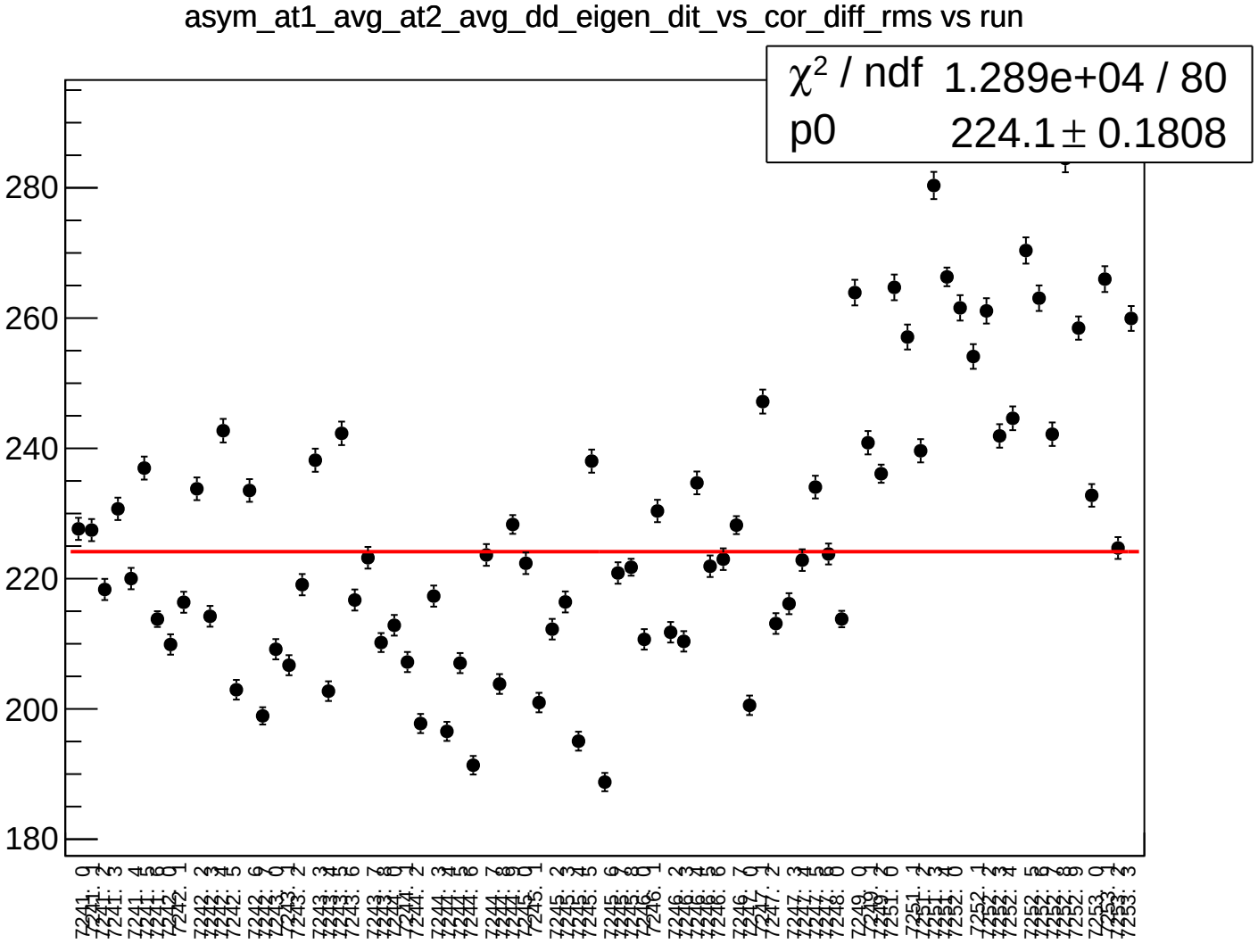

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.88 / 80
p0 −0.05701 ± 0.2558
pull
Entries 81
Mean −783.5
Std Dev 0
pull1D
Entries 81
Mean 0.005716
Std Dev 1.018

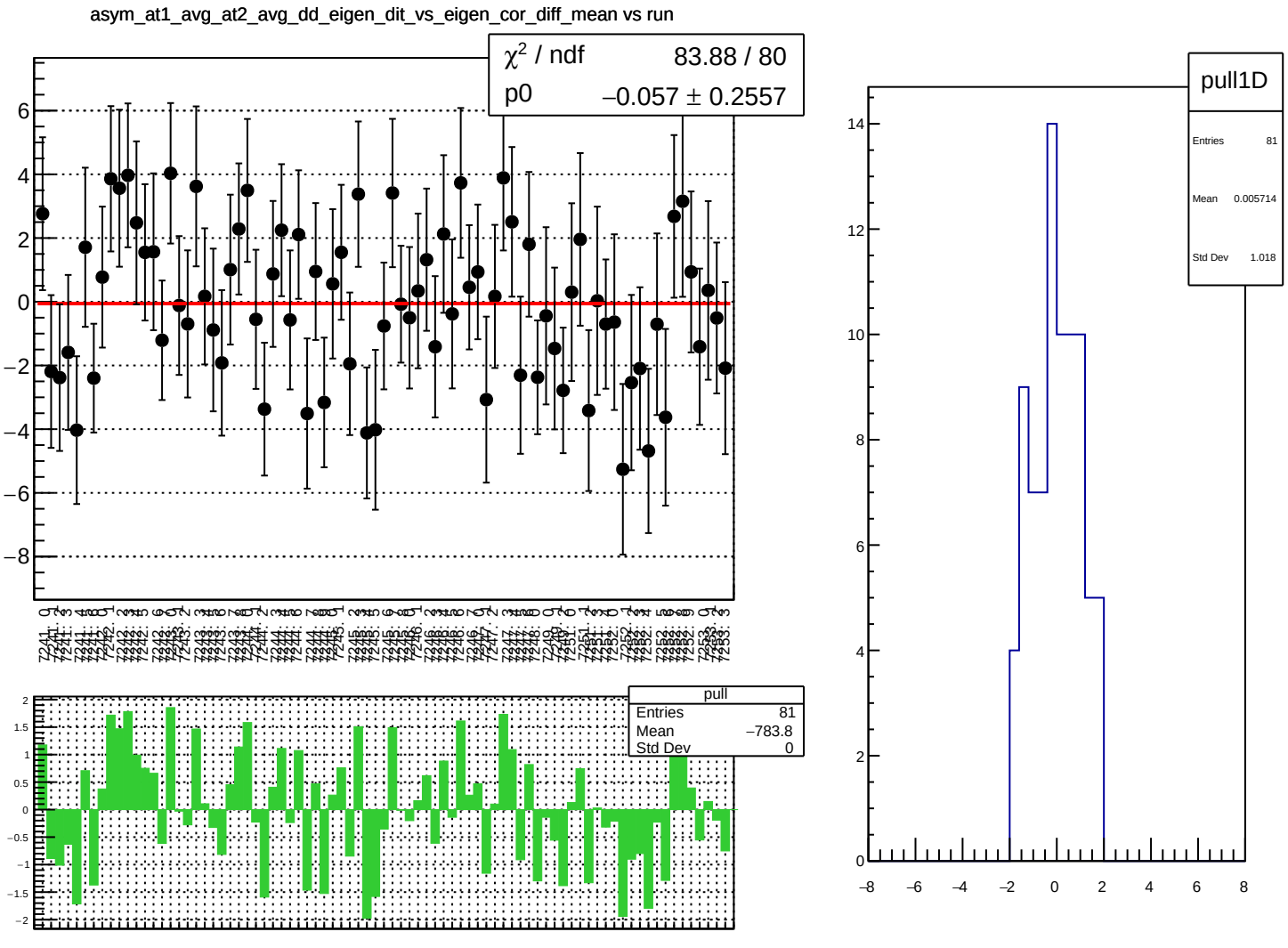

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.289e+04 / 80
p0 224.2 ± 0.1808
280
260
240
220
200
180

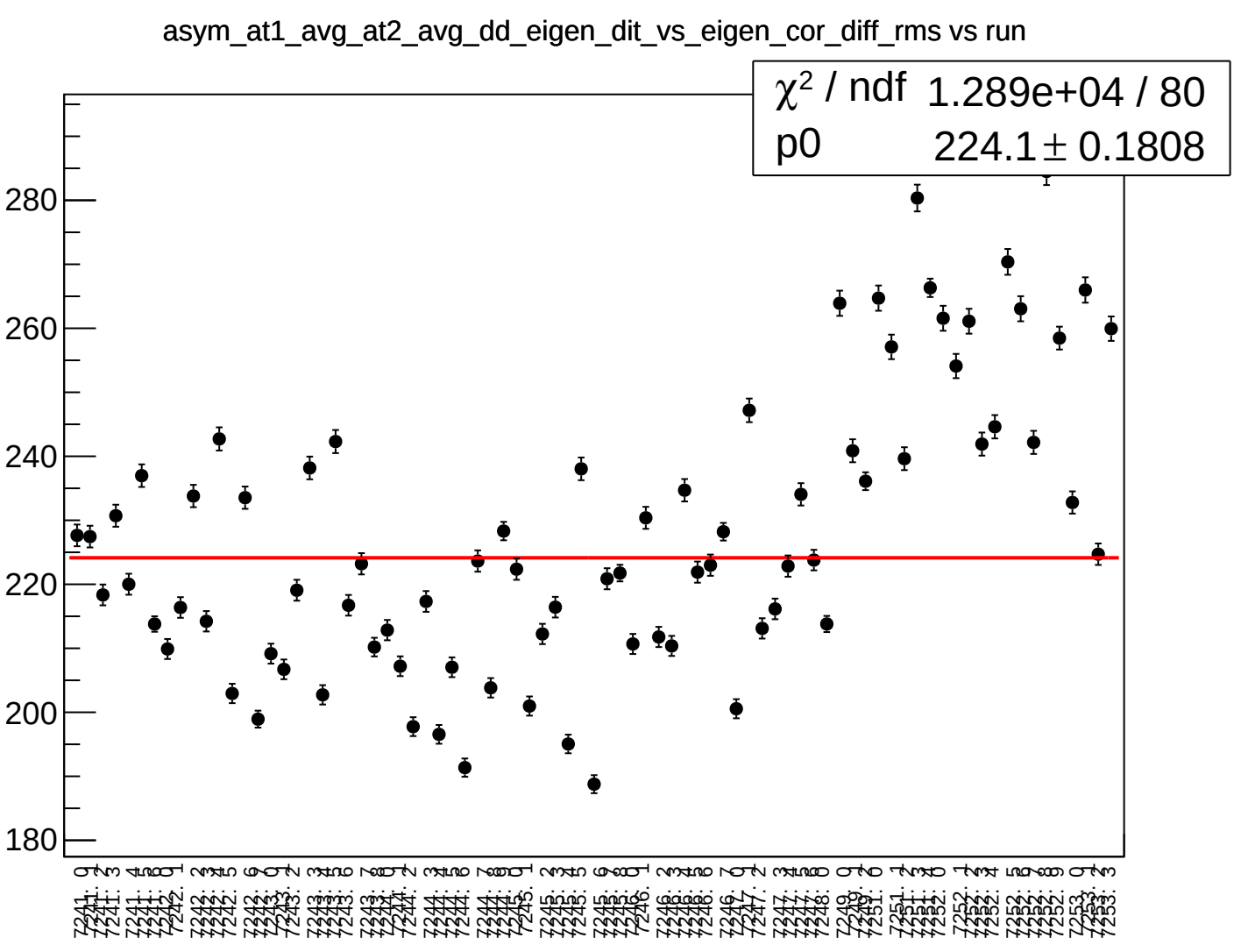

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.6 / 80
p0 2.186e−06 ± 1.292e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 81
Mean −58.61
Std Dev 0
pull1D
Entries 81
Mean −0.04088
Std Dev 1.114
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

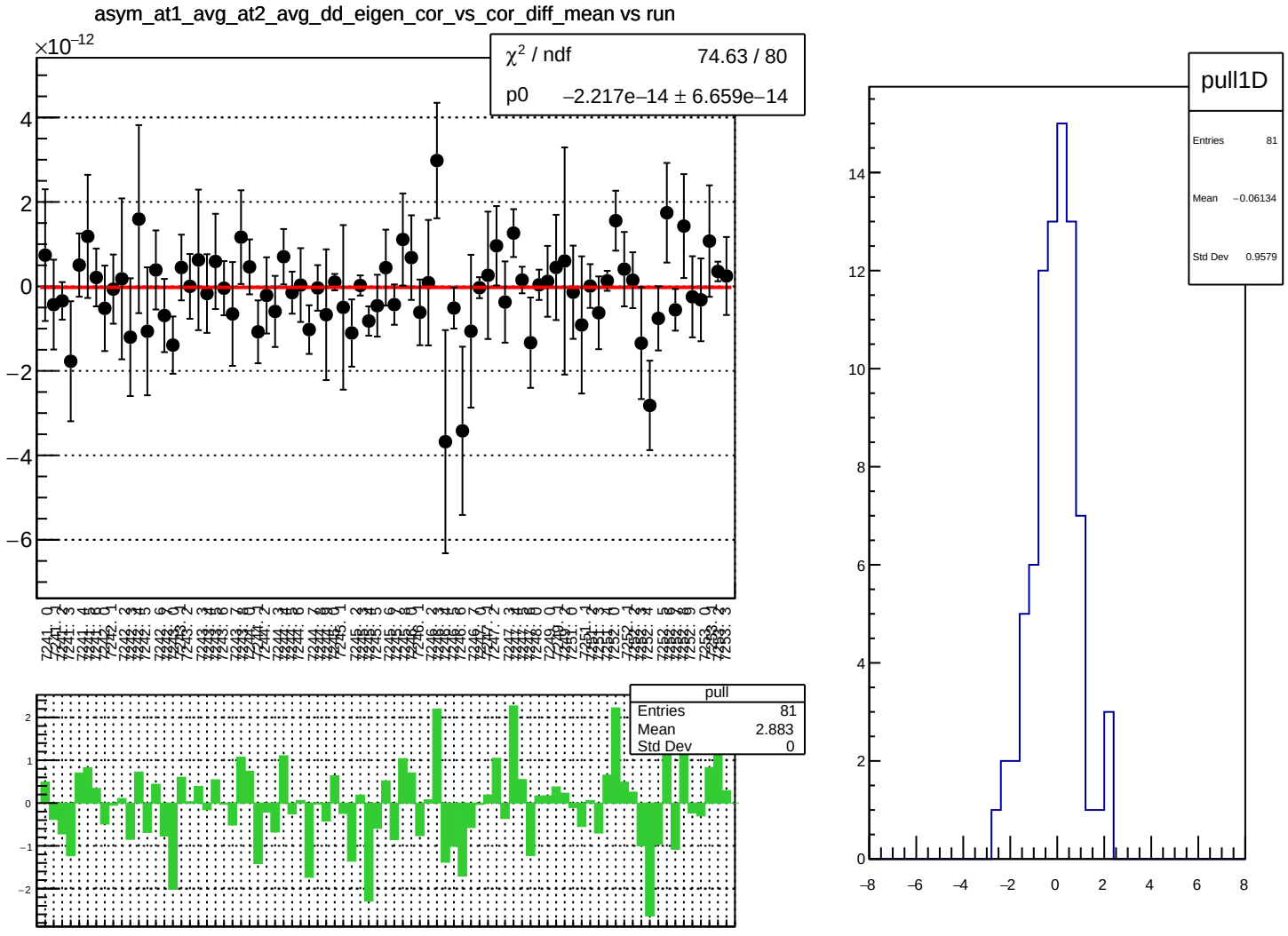

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.611e+04 / 80
p0 0.01128 ± 9.139e−06
0.014
0.013
0.012
0.011
0.01
0.009

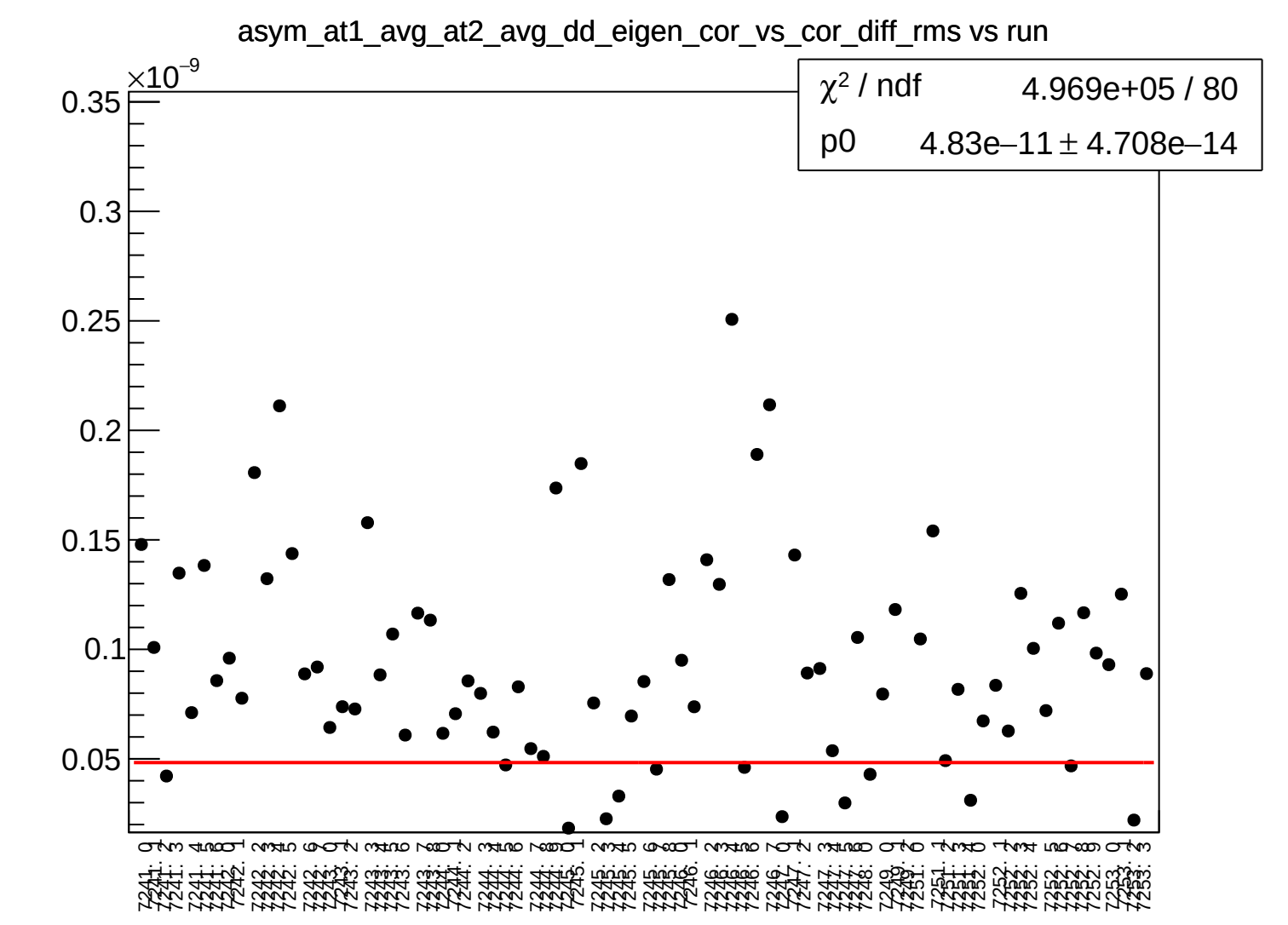

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.88 / 80
p0 −0.057 ± 0.2557
pull
Entries 81
Mean −783.8
Std Dev 0
pull1D
Entries 81
Mean 0.005714
Std Dev 1.018

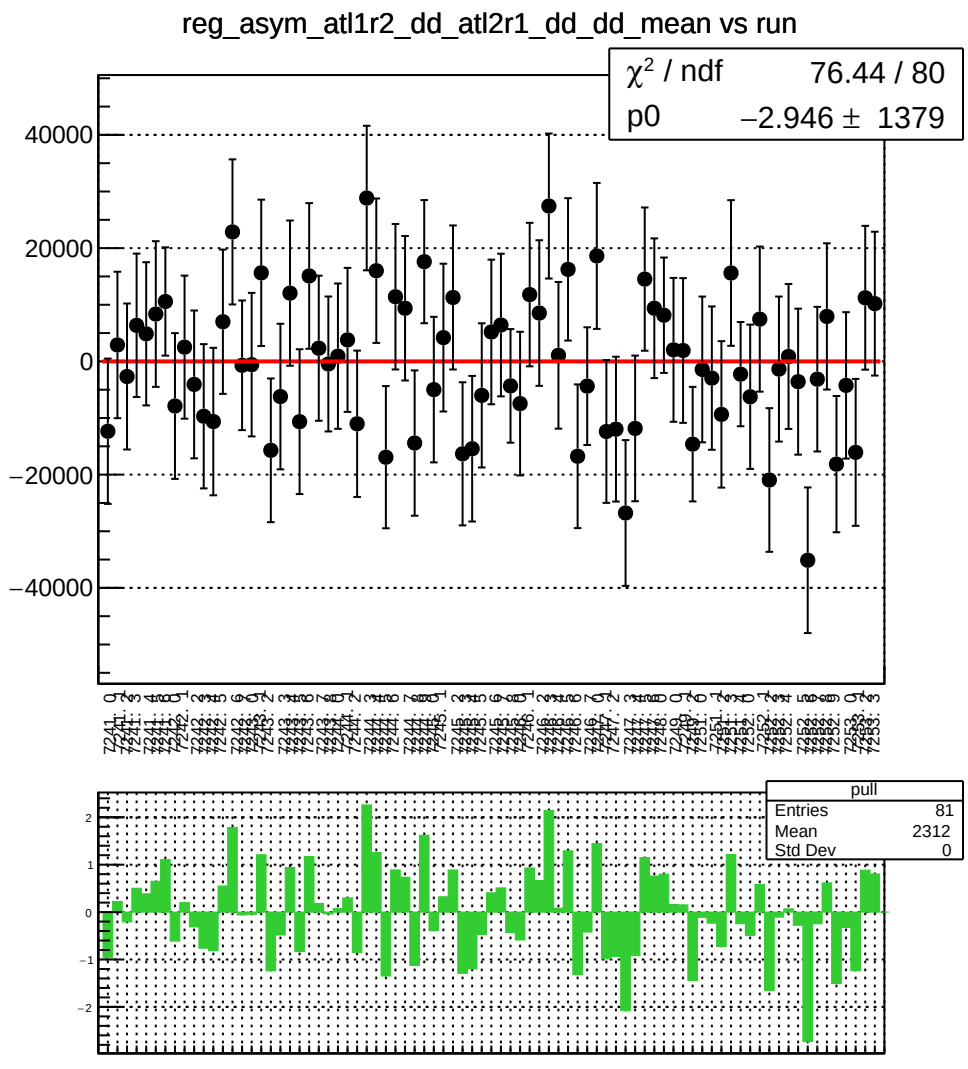

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.289e+04 / 80
p0 224.1 ± 0.1808
280
260
240
220
200
180

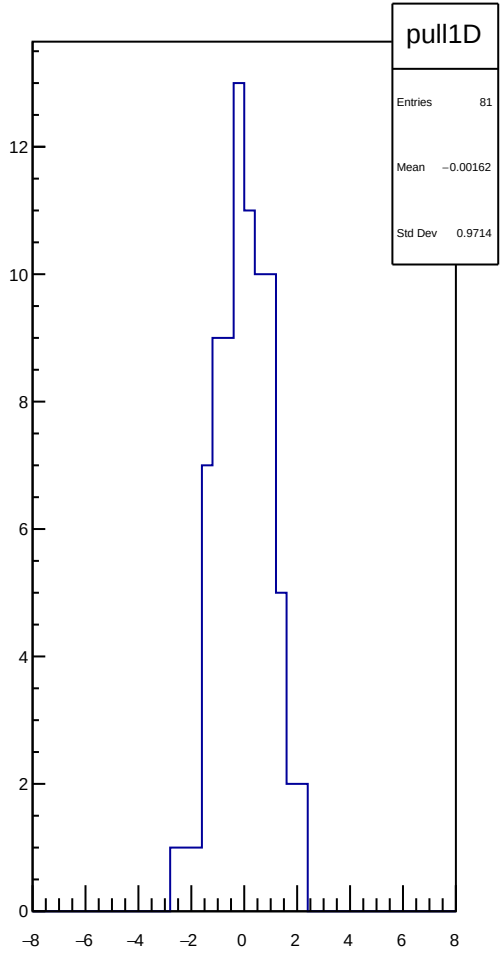

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.88 / 80
p0 −0.057 ± 0.2557
pull
Entries 81
Mean −783.8
Std Dev 0
pull1D
Entries 81
Mean 0.005714
Std Dev 1.018

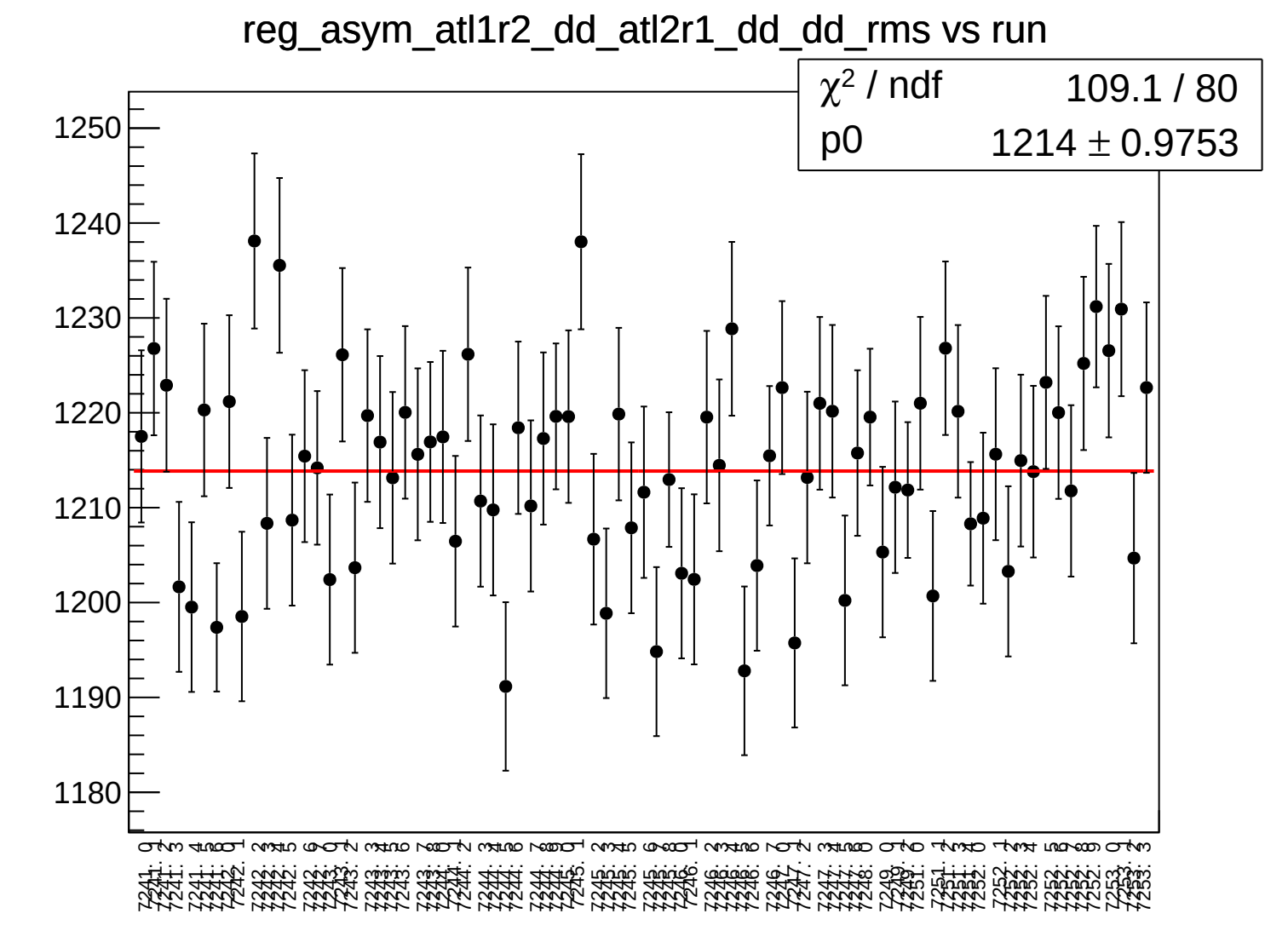

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.289e+04 / 80
p0 224.1 ± 0.1808
280
260
240
220
200
180

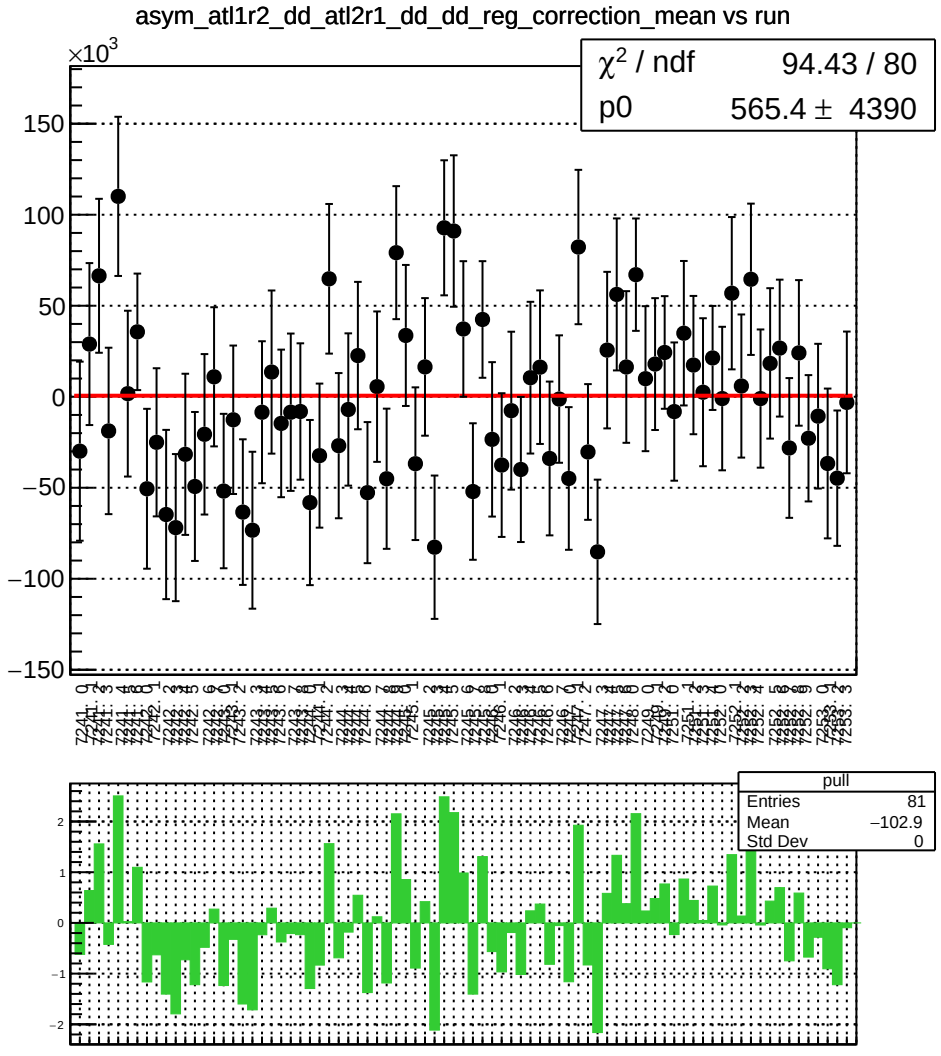

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 74.63 / 80
p0 −2.217e−14 ± 6.659e−14
pull
Entries 81
Mean 2.883
Std Dev 0
pull1D
Entries 81
Mean −0.06134
Std Dev 0.9579

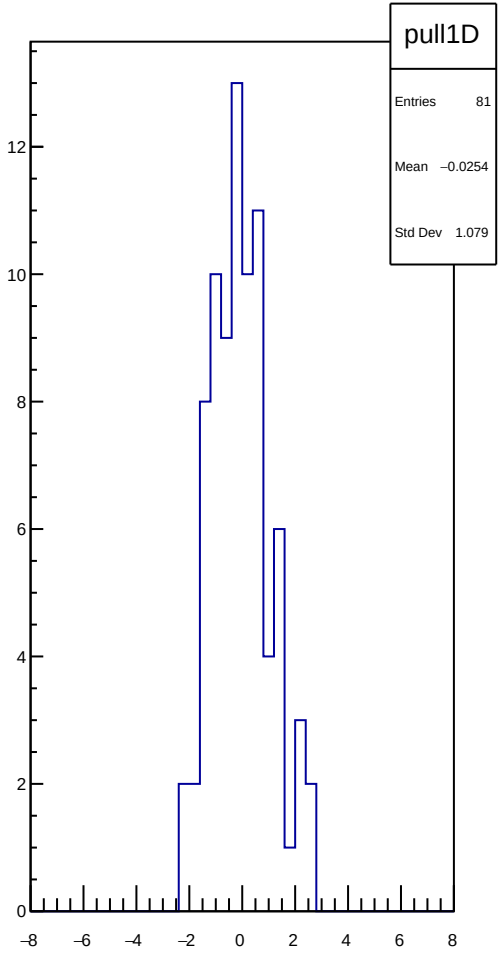

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.969e+05 / 80
p0 4.83e−11 ± 4.708e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

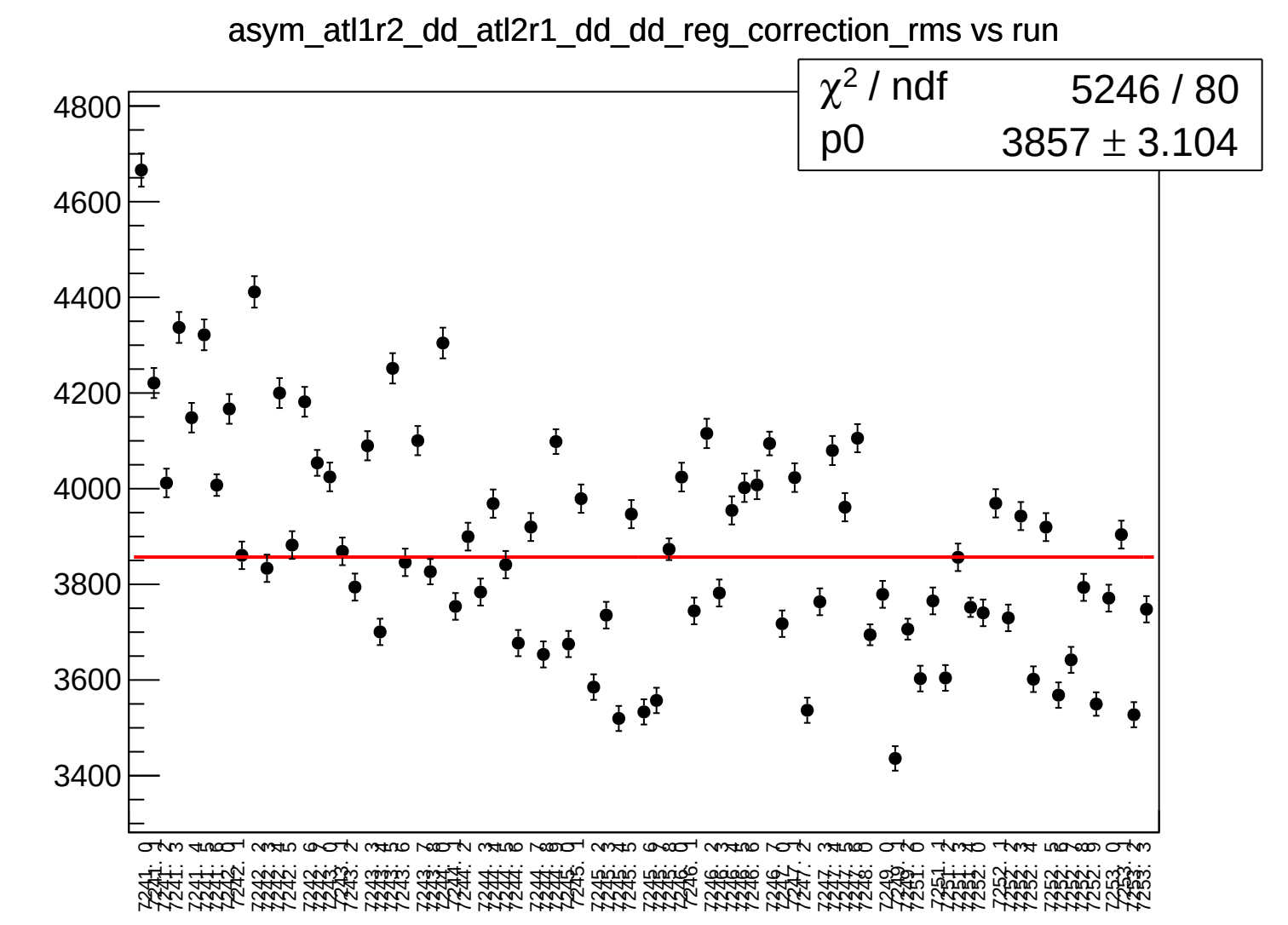

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 76.44 / 80
p0 −2.946 ± 1379
40000
20000
0
−20000
−40000
pull
Entries 81
Mean 2312
Std Dev 0
2
1
0
−1
−2

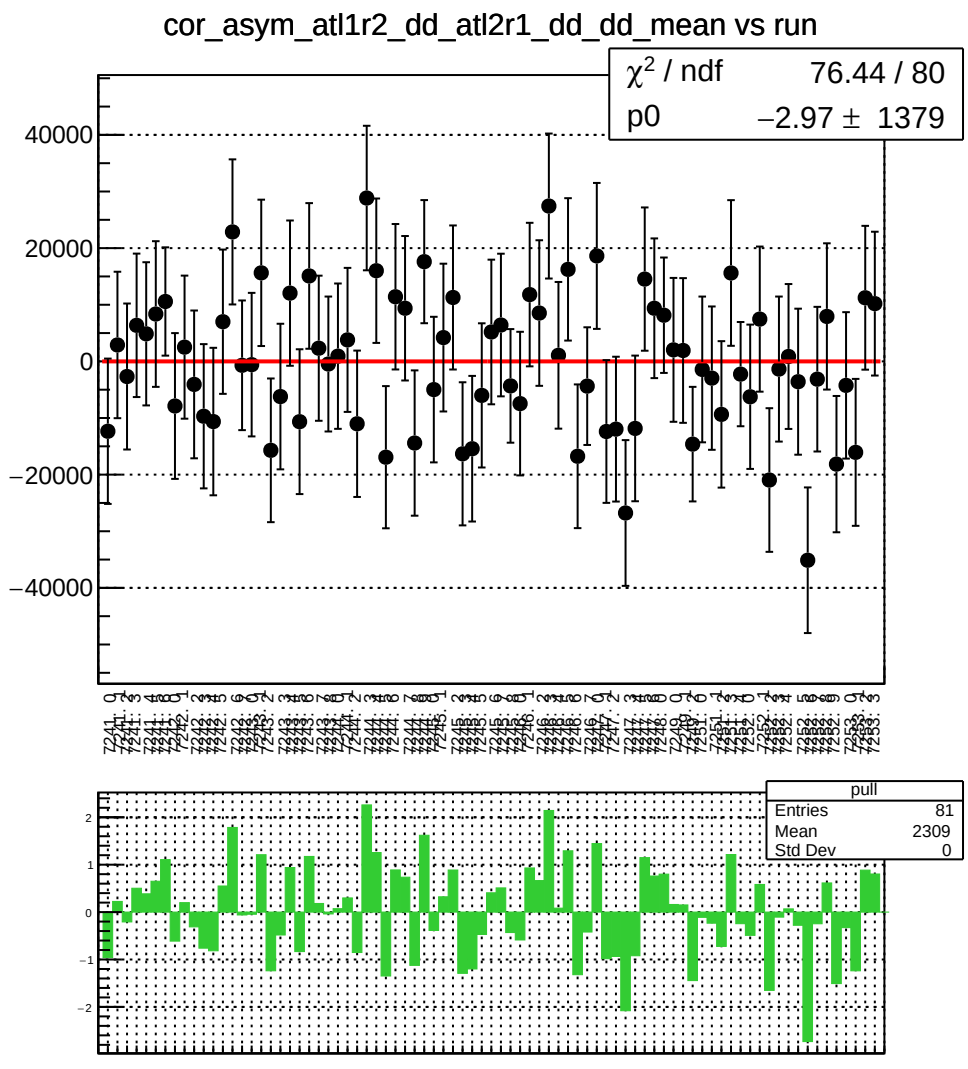

pull1D
Entries 81
Mean −0.00162
Std Dev 0.9714
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

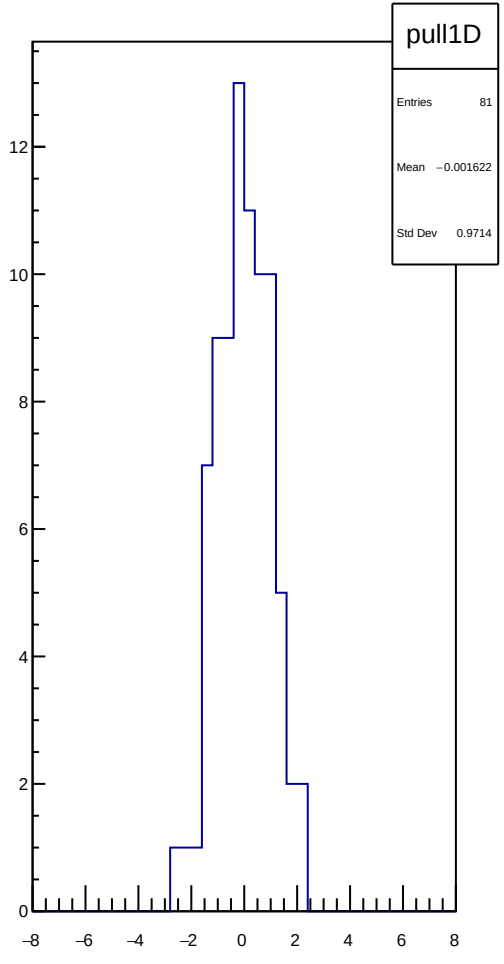

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 109.1 / 80
p0 1214 ± 0.9753
1250
1240
1230
1220
1210
1200
1190
1180

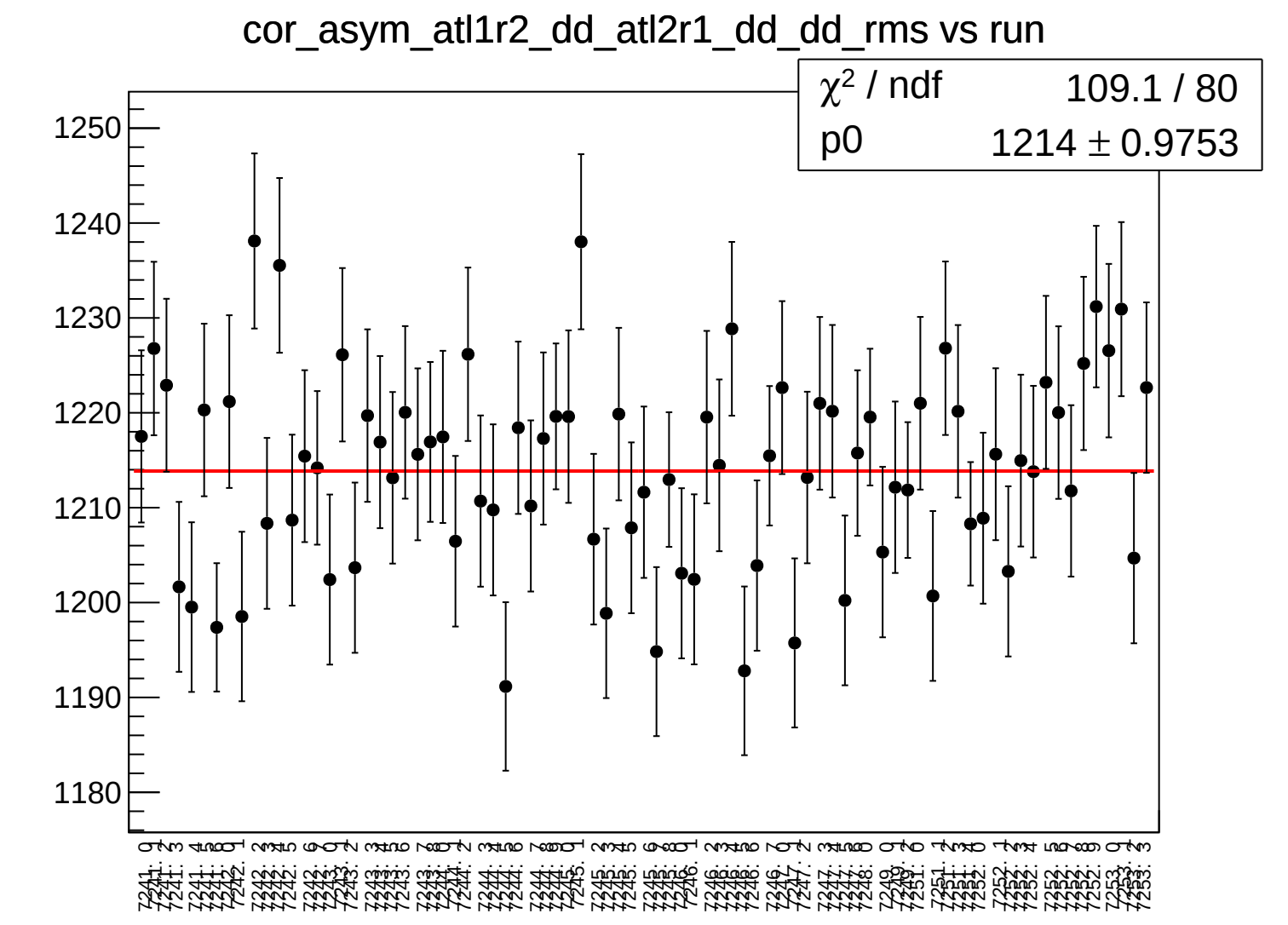

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 94.43 / 80
p0 565.4 ± 4390
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean −102.9
Std Dev 0
2
1
0
−1
−2

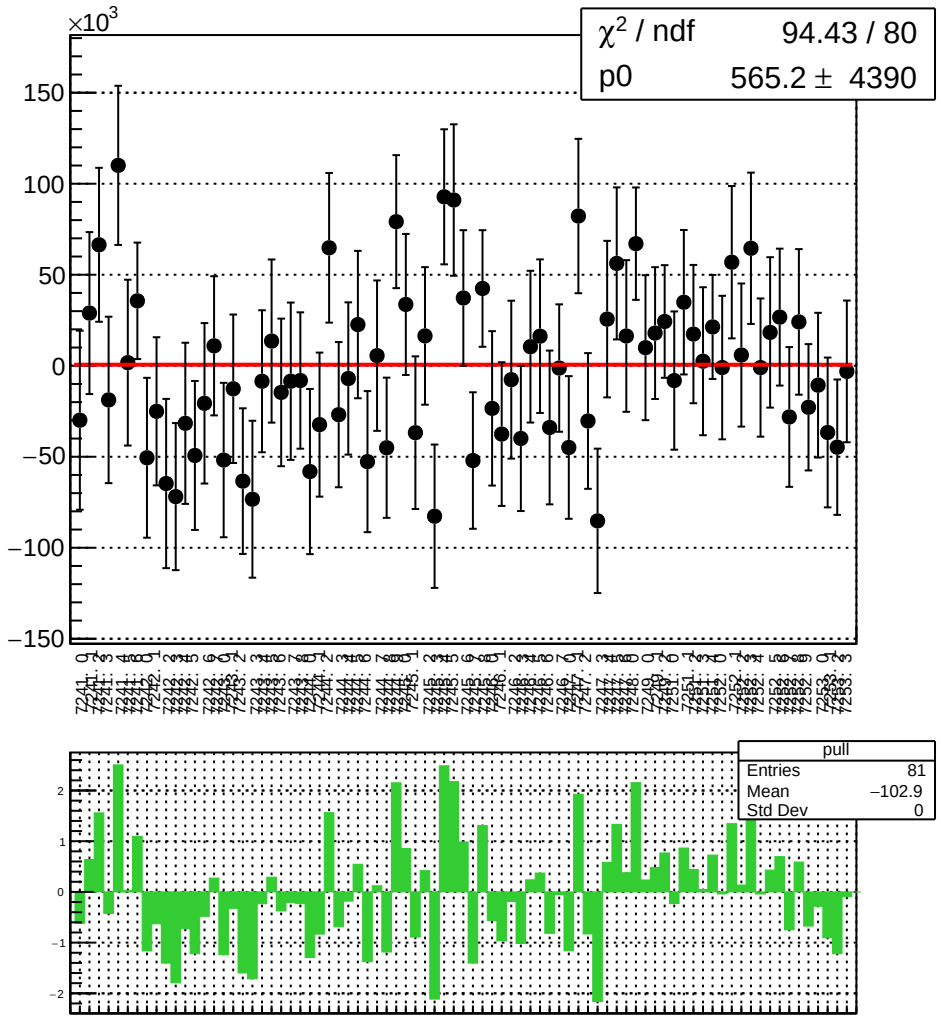

pull1D
Entries 81
Mean −0.0254
Std Dev 1.079
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

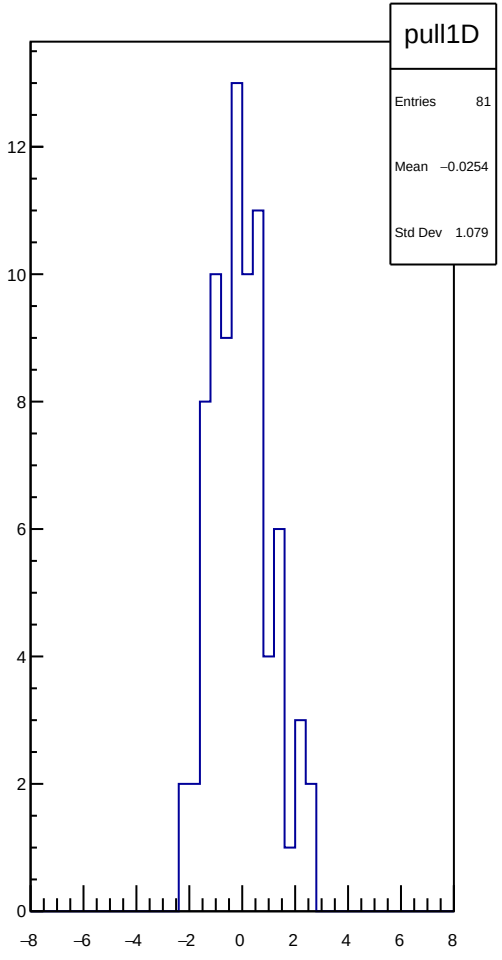

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 5246 / 80
p0 3857 ± 3.104
4800
4600
4400
4200
4000
3800
3600
3400

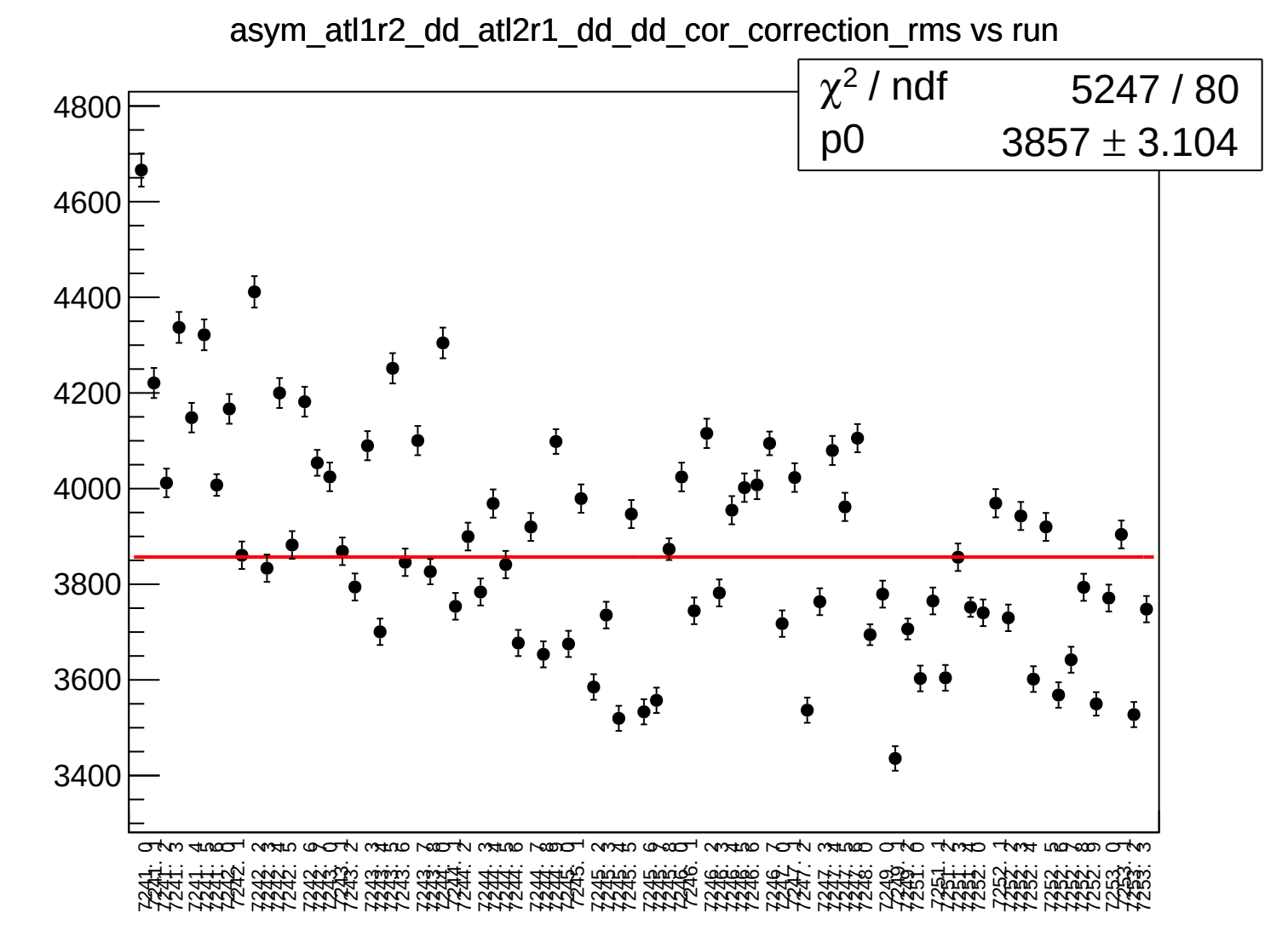

cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 76.44 / 80
p0 −2.97 ± 1379
40000
20000
0
−20000
−40000
pull
Entries 81
Mean 2309
Std Dev 0
2
1
0
−1
−2

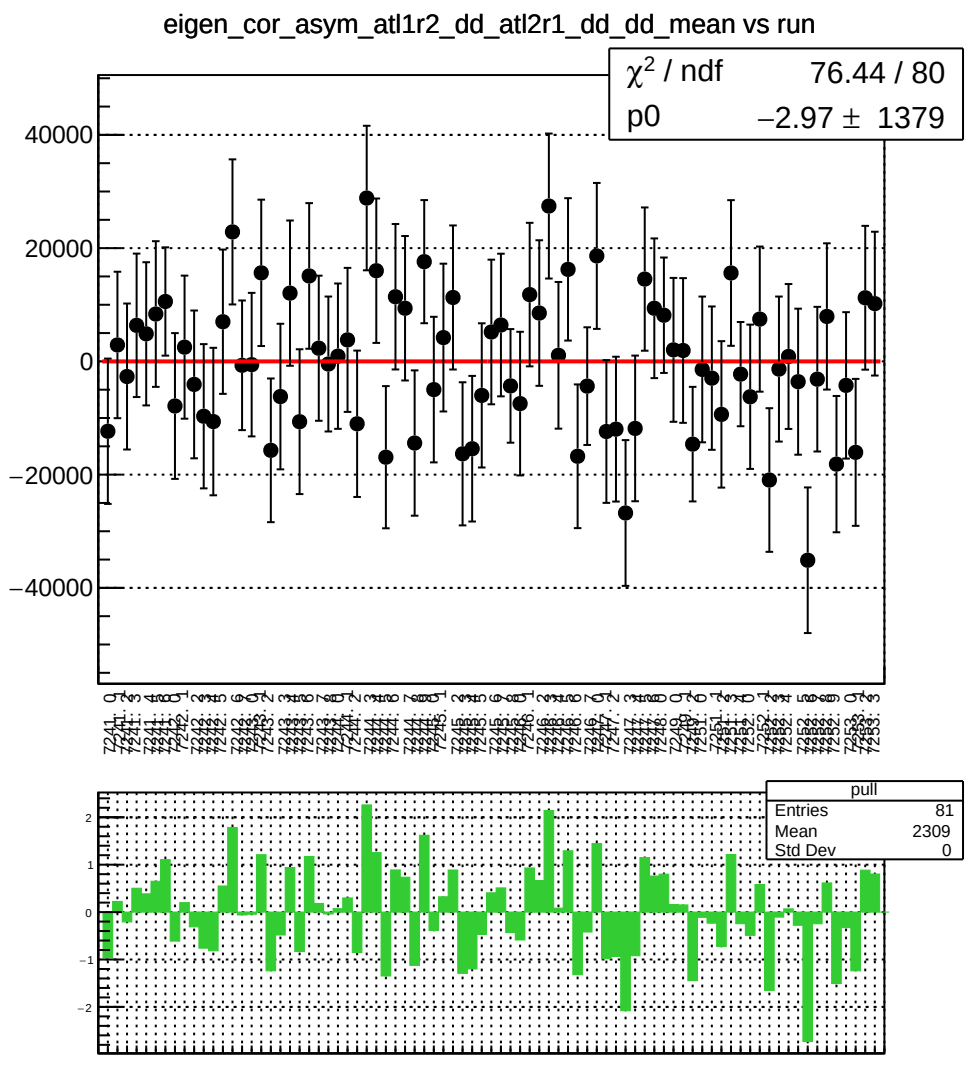

pull1D
Entries 81
Mean −0.001622
Std Dev 0.9714
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

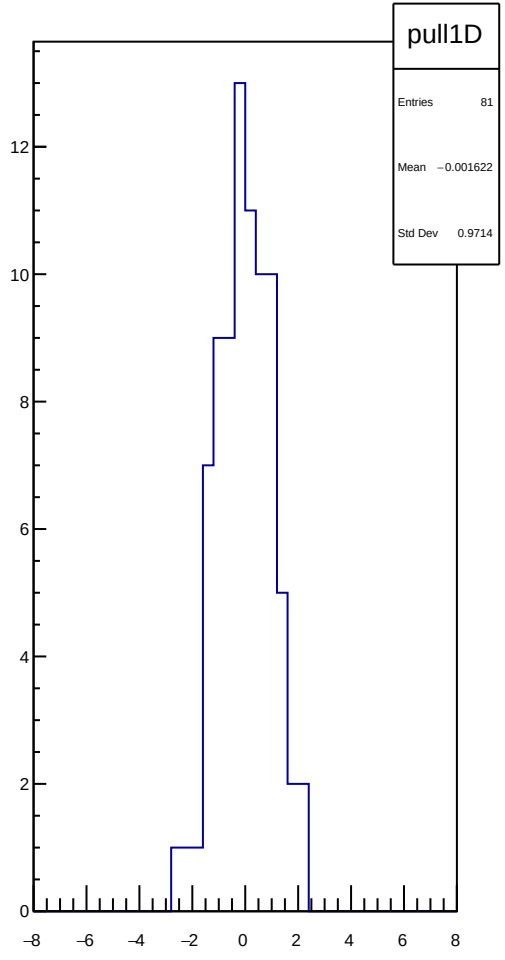

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 109.1 / 80
p0 1214 ± 0.9753
1250
1240
1230
1220
1210
1200
1190
1180

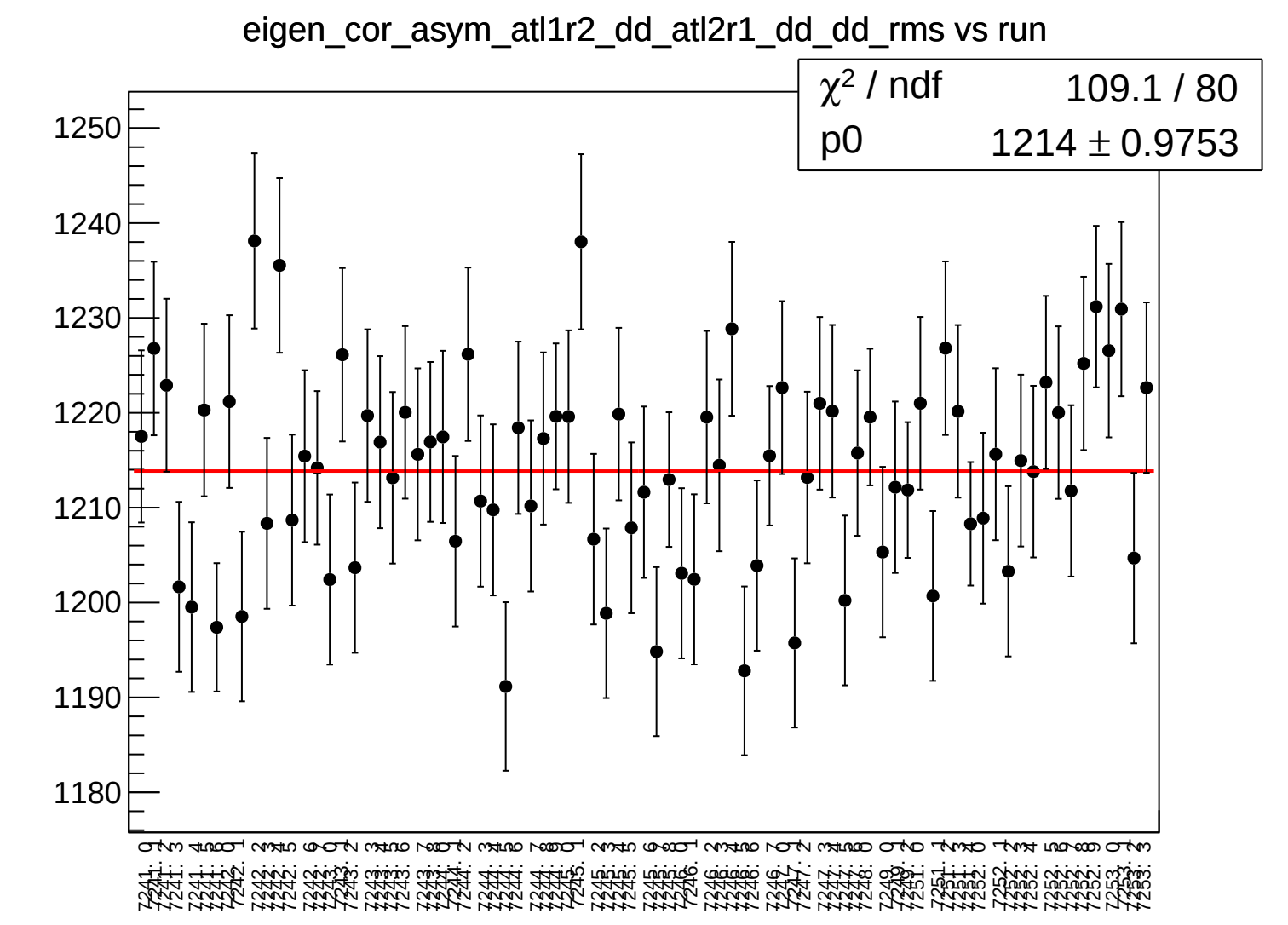

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
×10^3
χ² / ndf 94.43 / 80
p0 565.2 ± 4390
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean −102.9
Std Dev 0
2
1
0
−1
−2

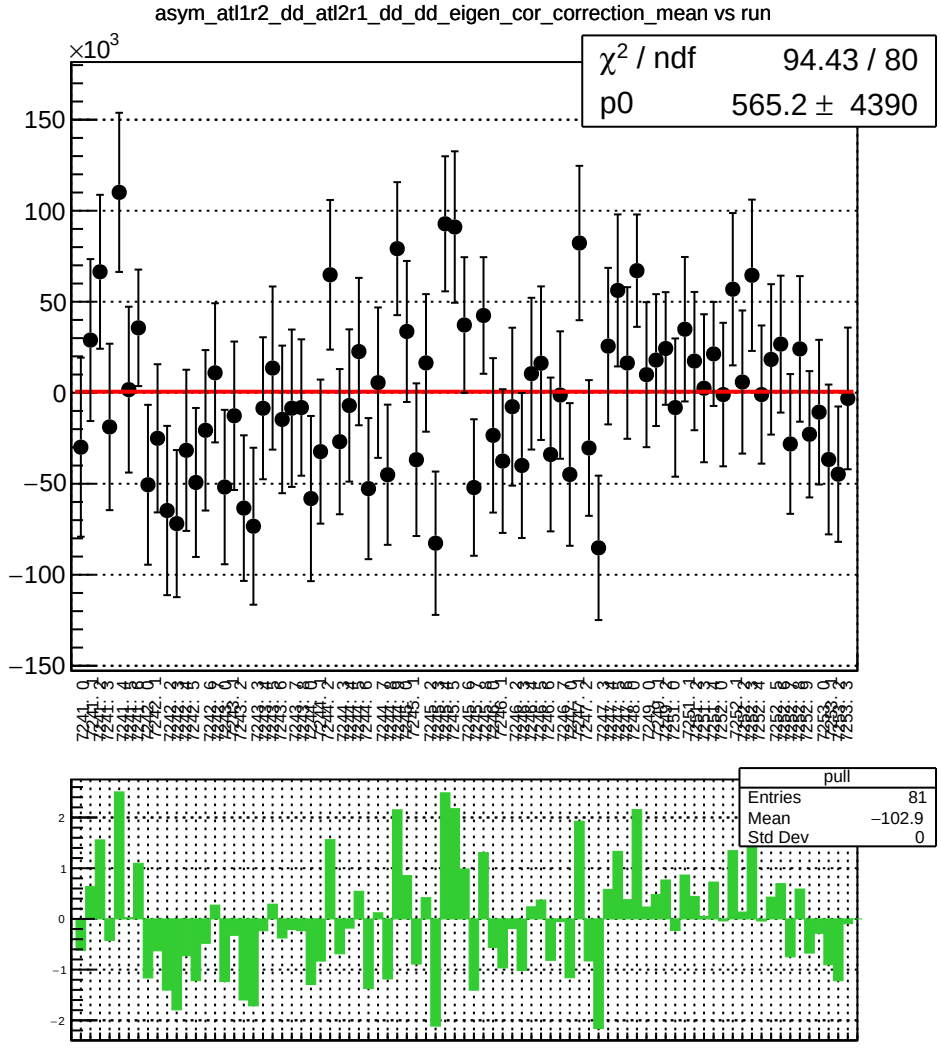

pull1D
Entries 81
Mean −0.0254
Std Dev 1.079
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

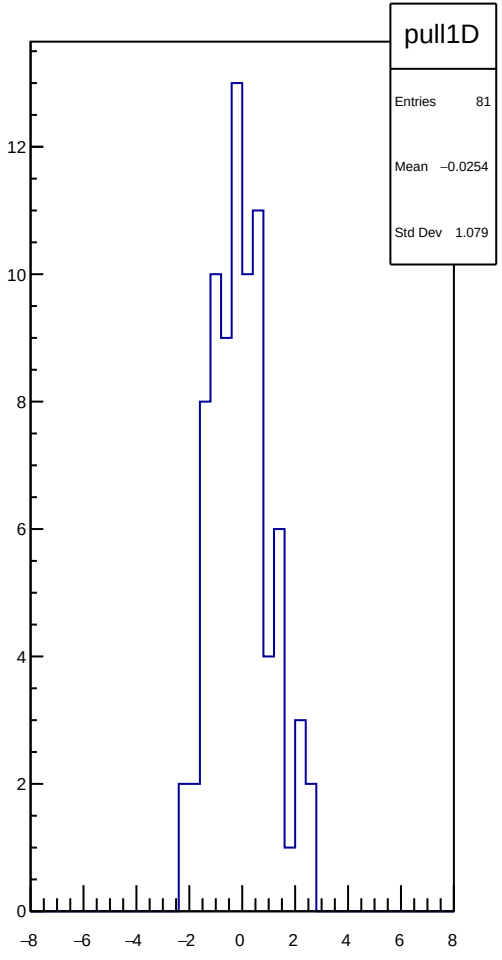

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 5247 / 80
p0 3857 ± 3.104
4800
4600
4400
4200
4000
3800
3600
3400

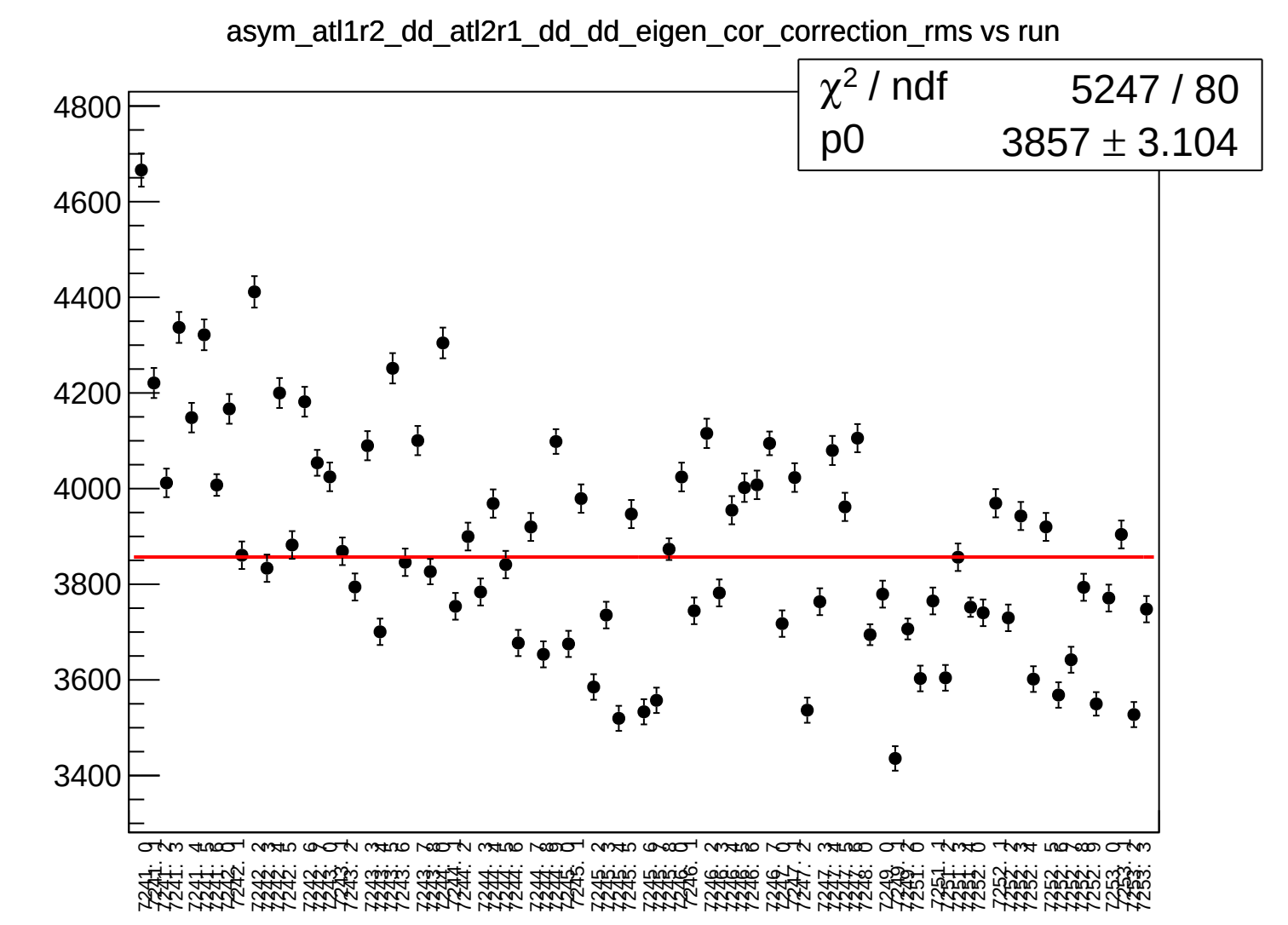

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 76.44 / 80
p0 −2.97 ± 1379
40000
20000
0
−20000
−40000
pull
Entries 81
Mean 2309
Std Dev 0
2
1
0
−1
−2

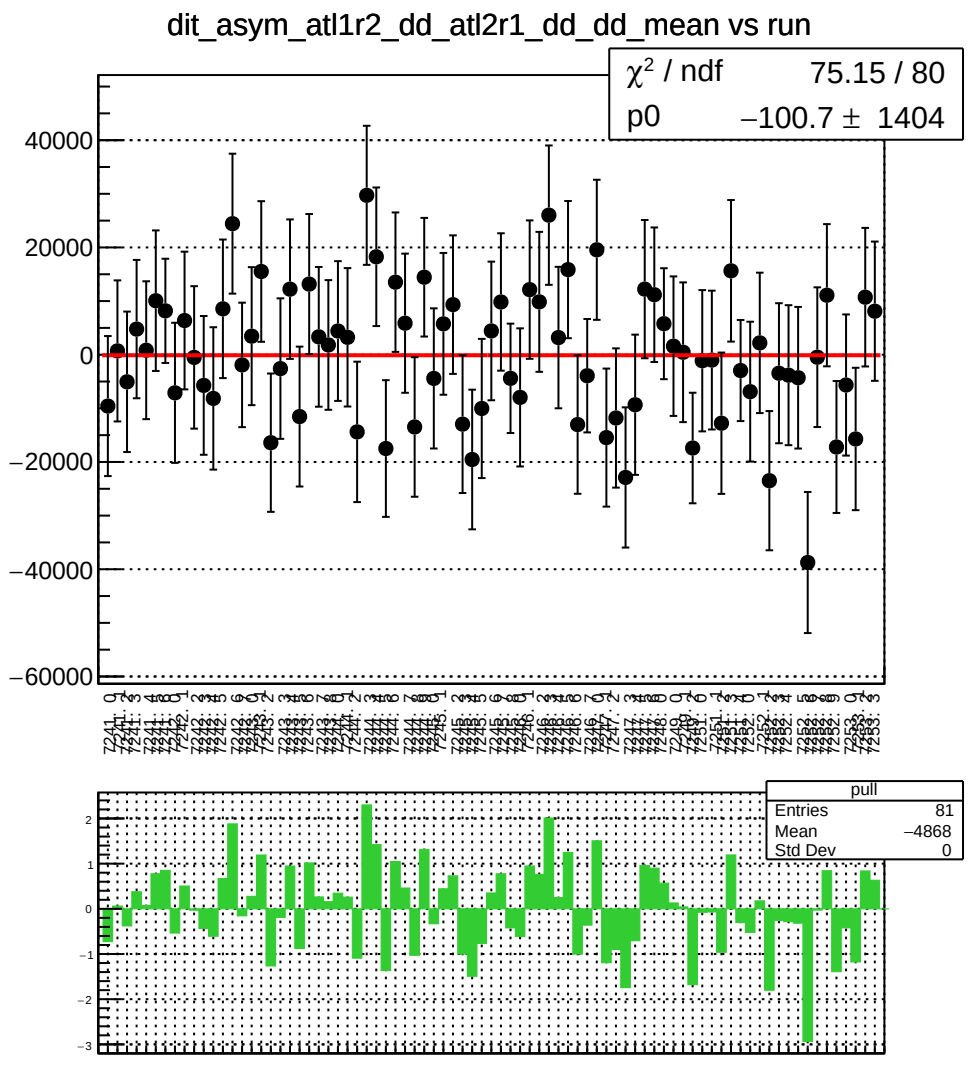

pull1D
Entries 81
Mean −0.001622
Std Dev 0.9714
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

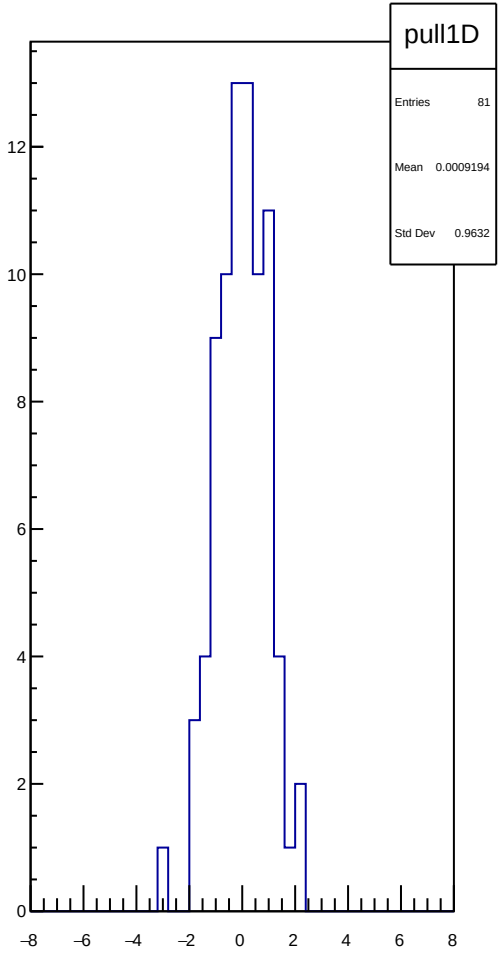

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 109.1 / 80
p0 1214 ± 0.9753
1250
1240
1230
1220
1210
1200
1190
1180

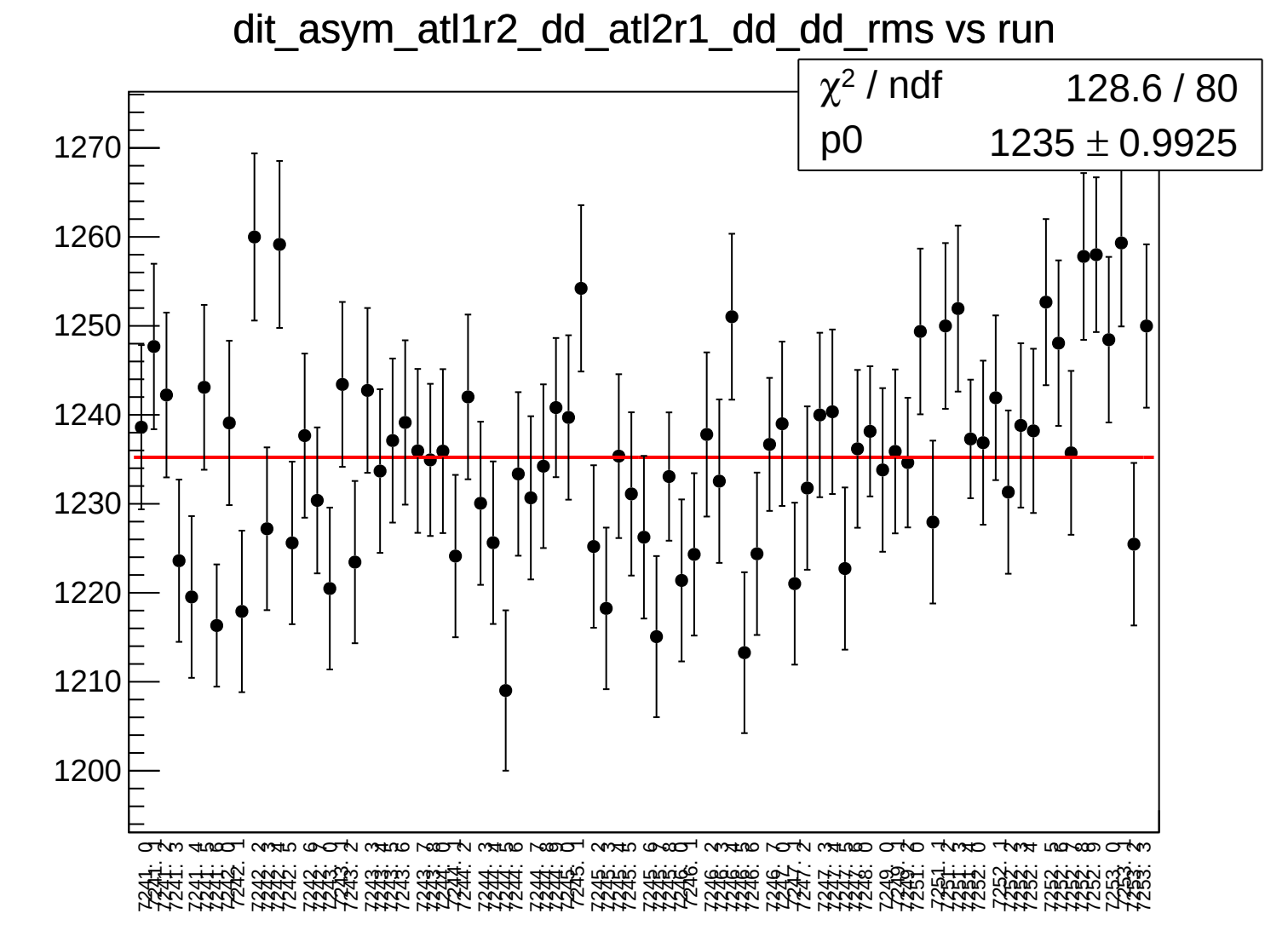

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 94.43 / 80
p0 565.2 ± 4390
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean −102.9
Std Dev 0
2
1
0
−1
−2

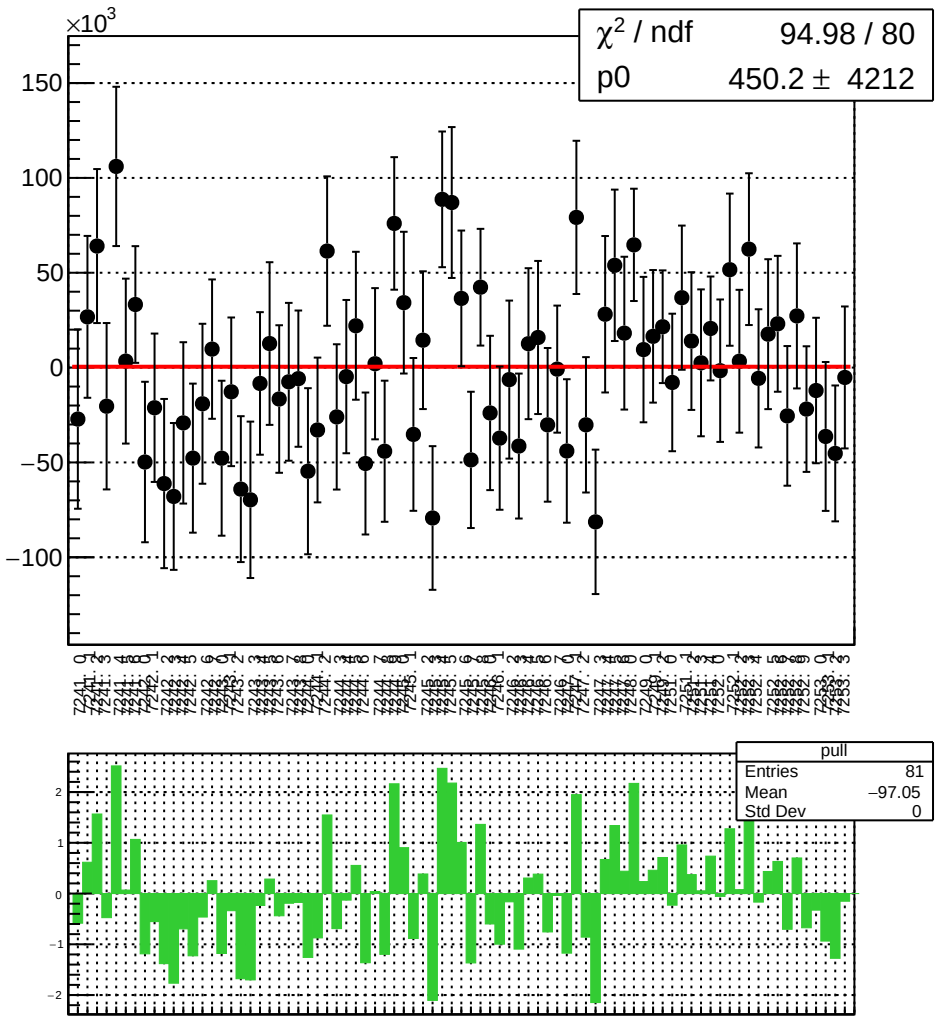

pull1D
Entries 81
Mean −0.0254
Std Dev 1.079
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

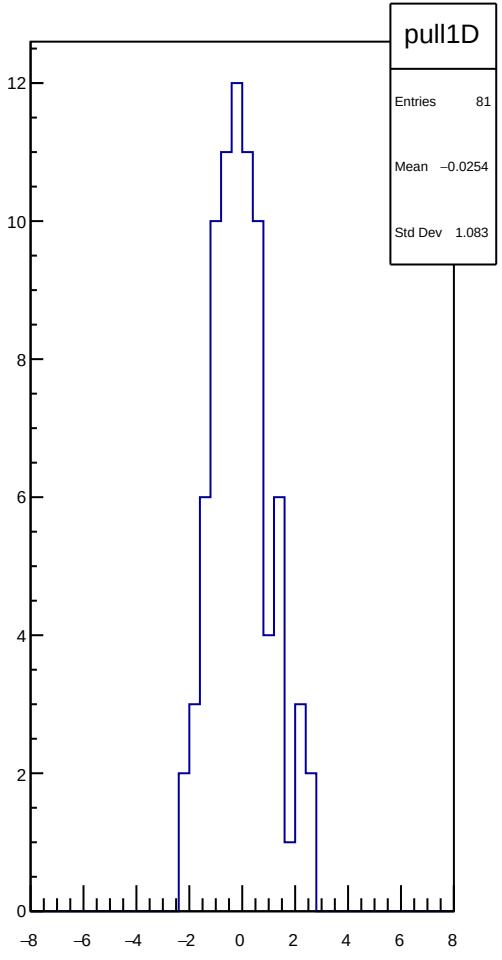

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 5247 / 80
p0 3857 ± 3.104
4800
4600
4400
4200
4000
3800
3600
3400

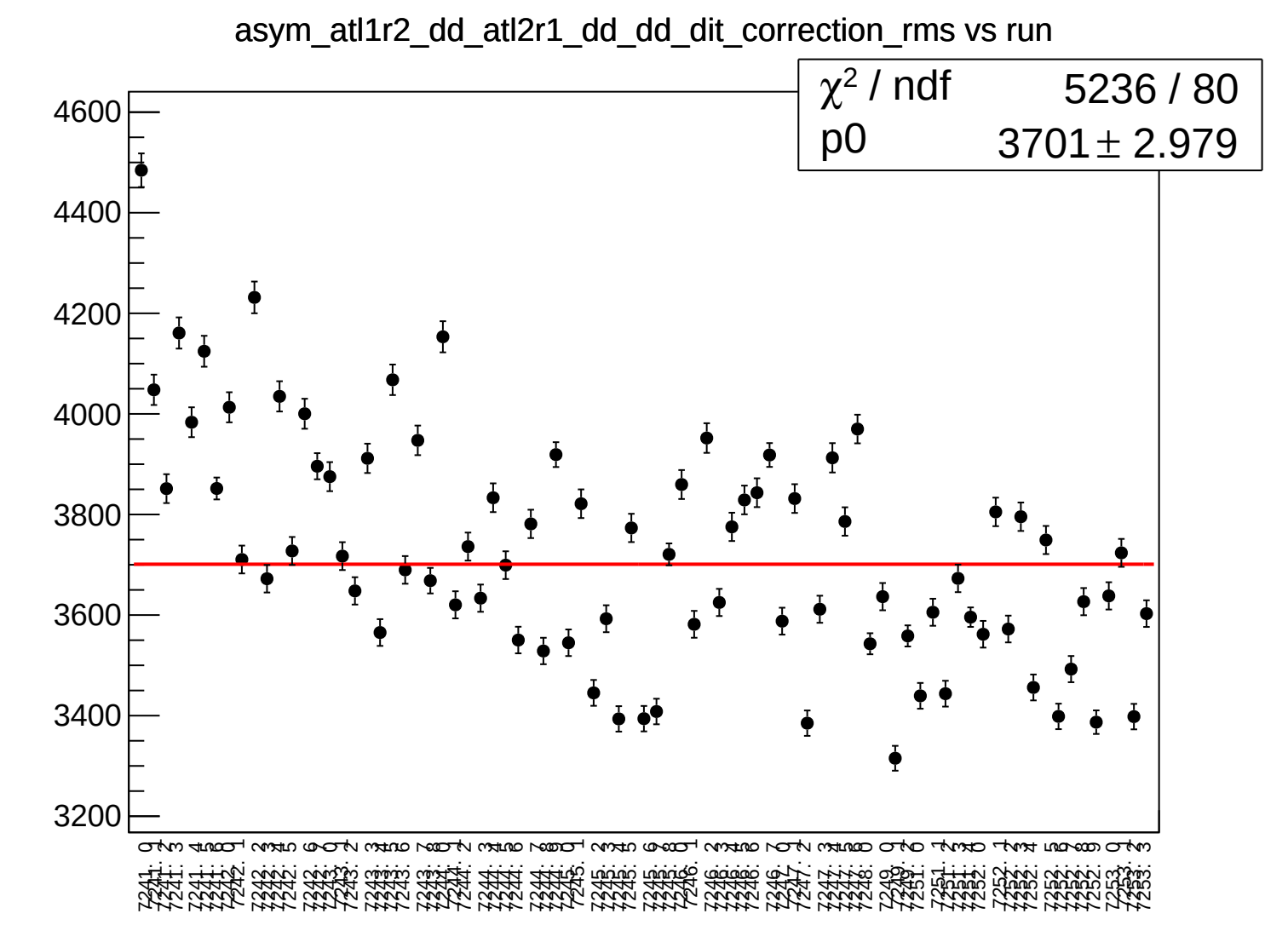

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 75.15 / 80
p0 −100.7 ± 1404
pull
Entries 81
Mean −4868
Std Dev 0

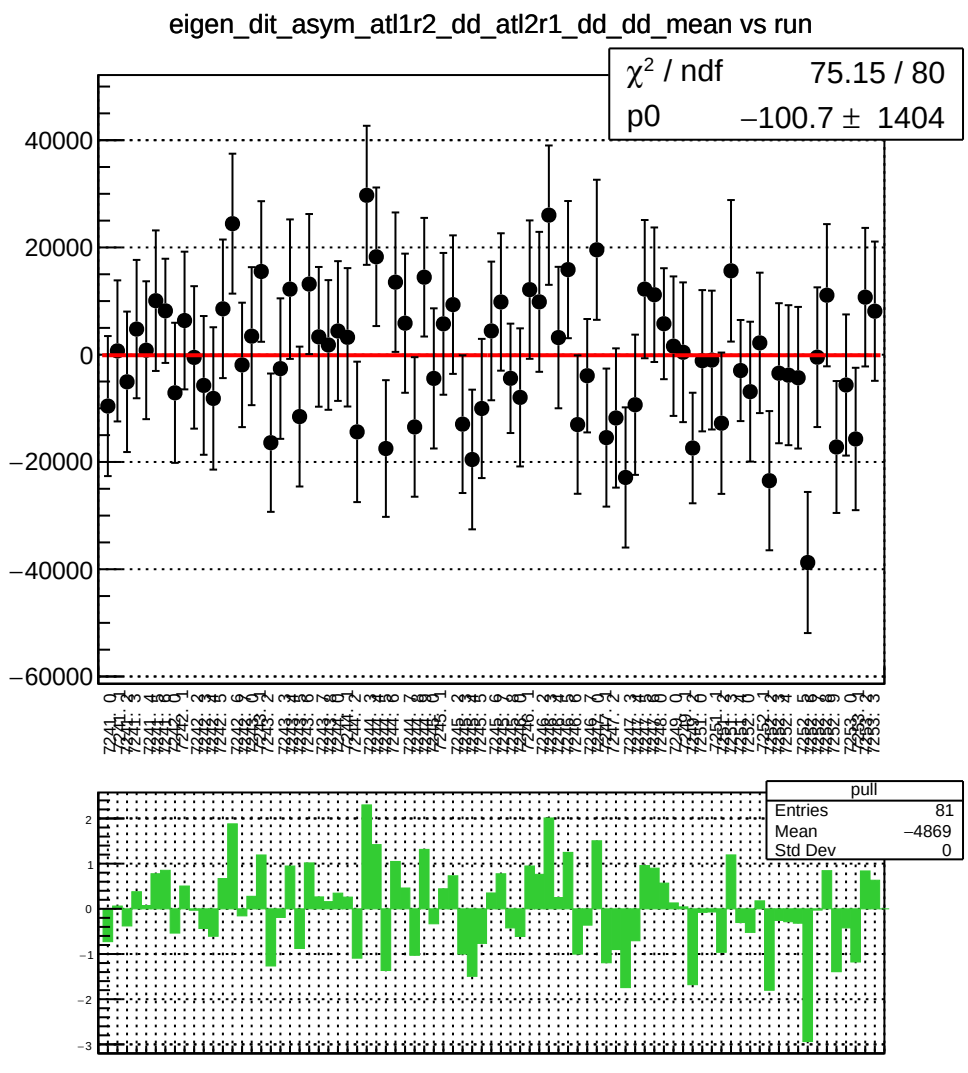

pull1D
Entries 81
Mean 0.0009194
Std Dev 0.9632

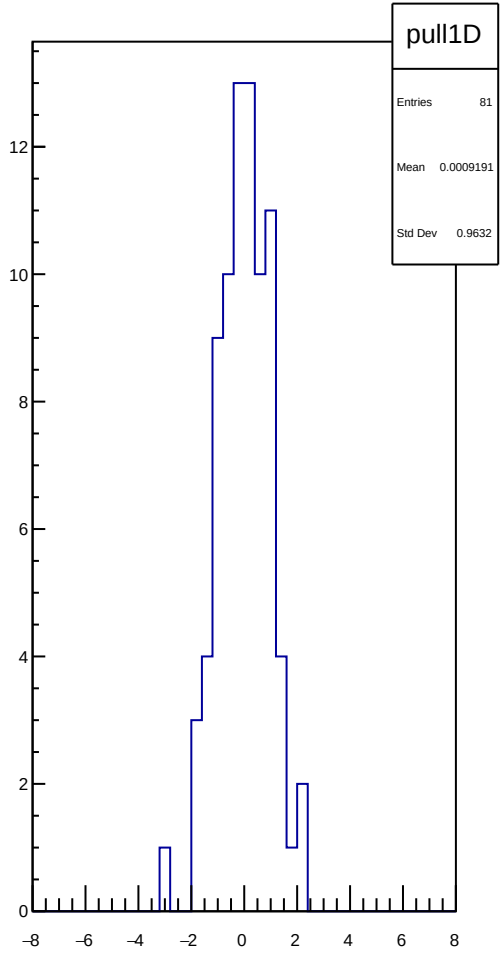

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 128.6 / 80
p0 1235 ± 0.9925
1270
1260
1250
1240
1230
1220
1210
1200

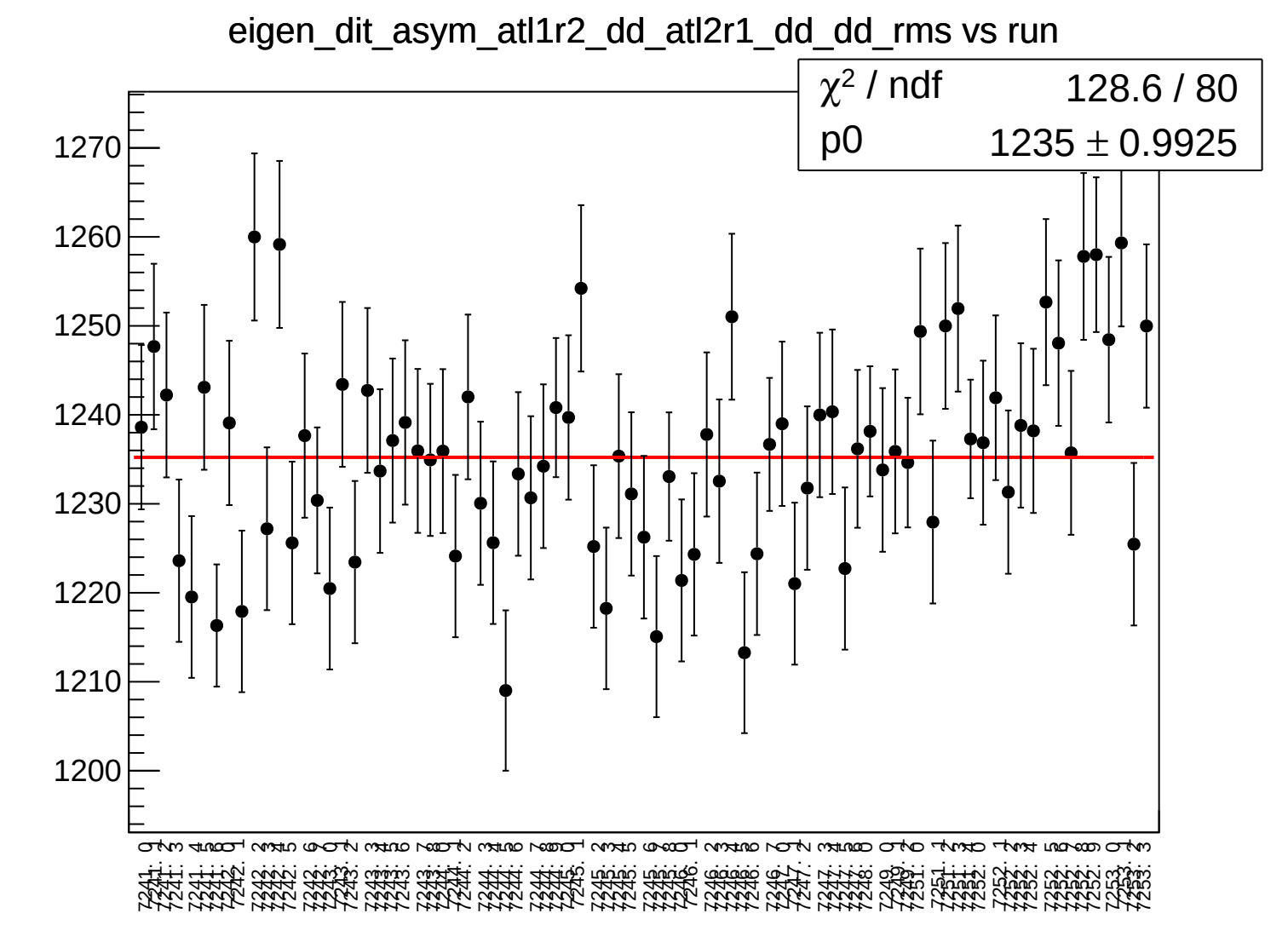

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 94.98 / 80
p0 450.2 ± 4212
150
100
50
0
−50
−100
pull
Entries 81
Mean −97.05
Std Dev 0
2
1
0
−1
−2

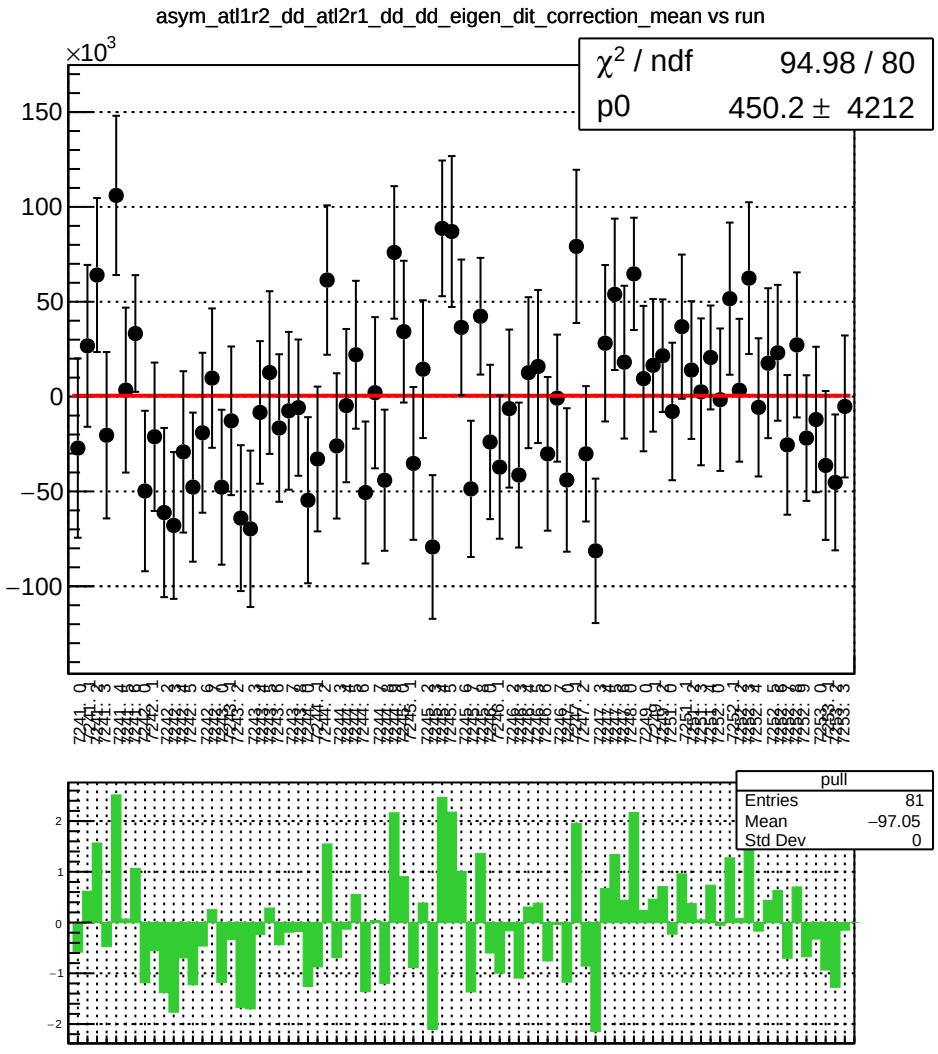

pull1D
Entries 81
Mean −0.0254
Std Dev 1.083
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

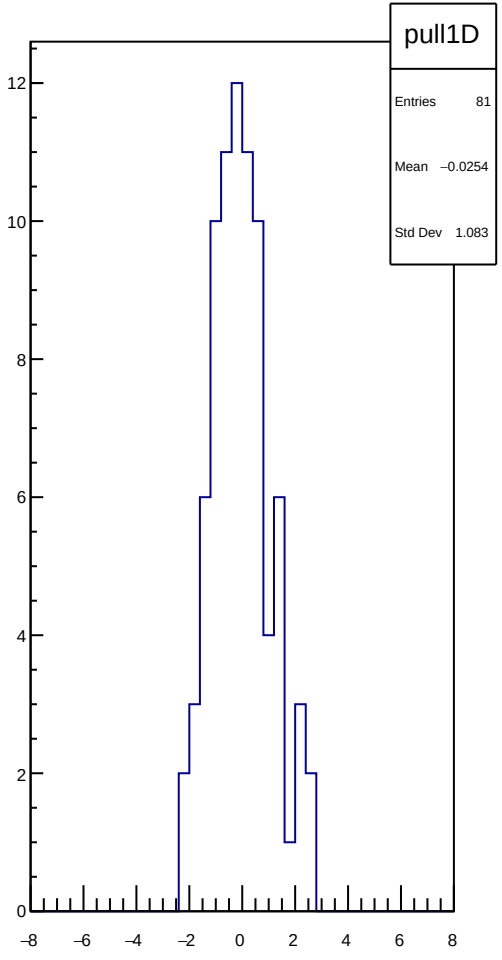

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 5236 / 80
p0 3701 ± 2.979
4600
4400
4200
4000
3800
3600
3400
3200

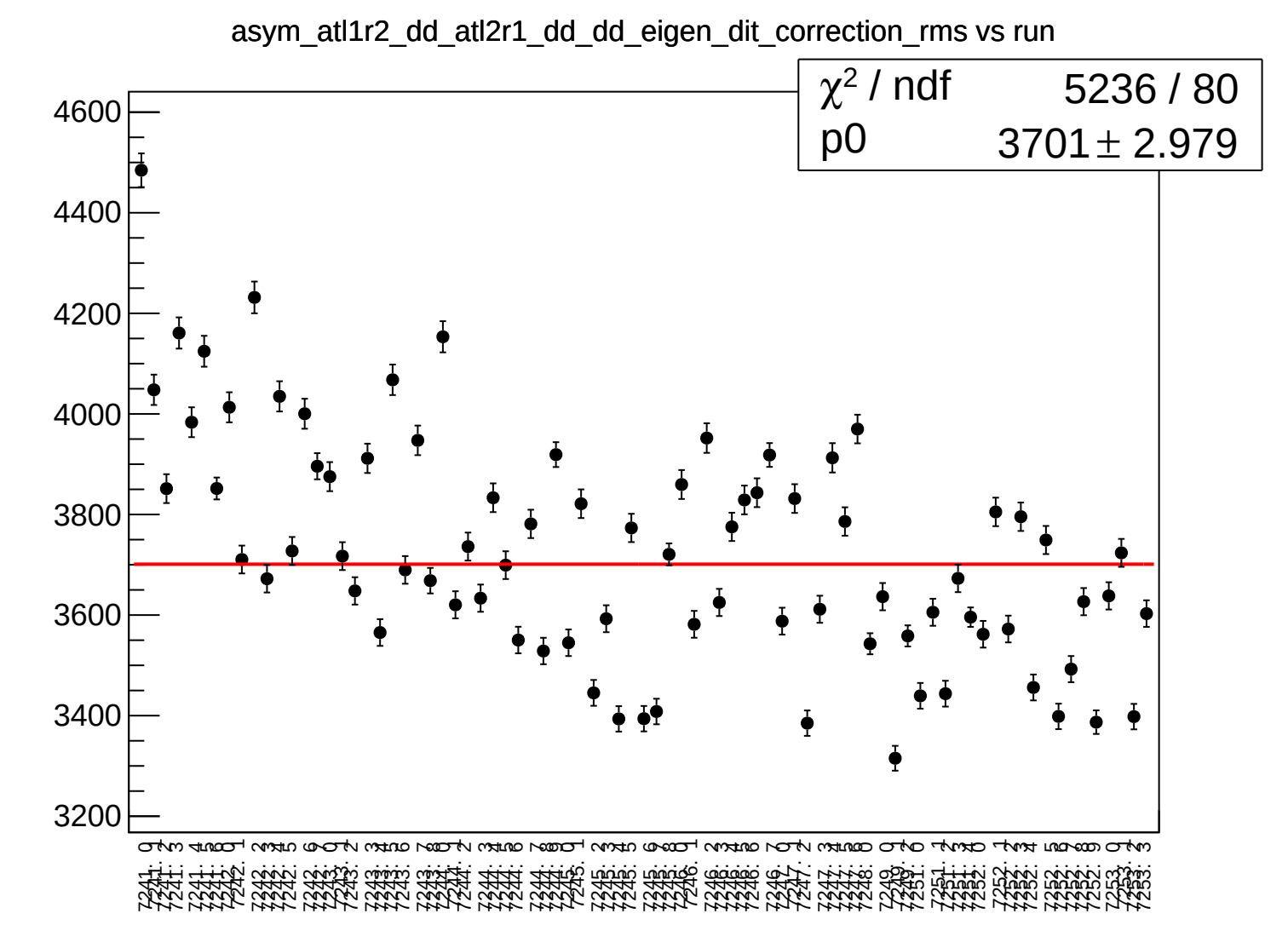

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 75.15 / 80
p0 −100.7 ± 1404
pull
Entries 81
Mean −4869
Std Dev 0

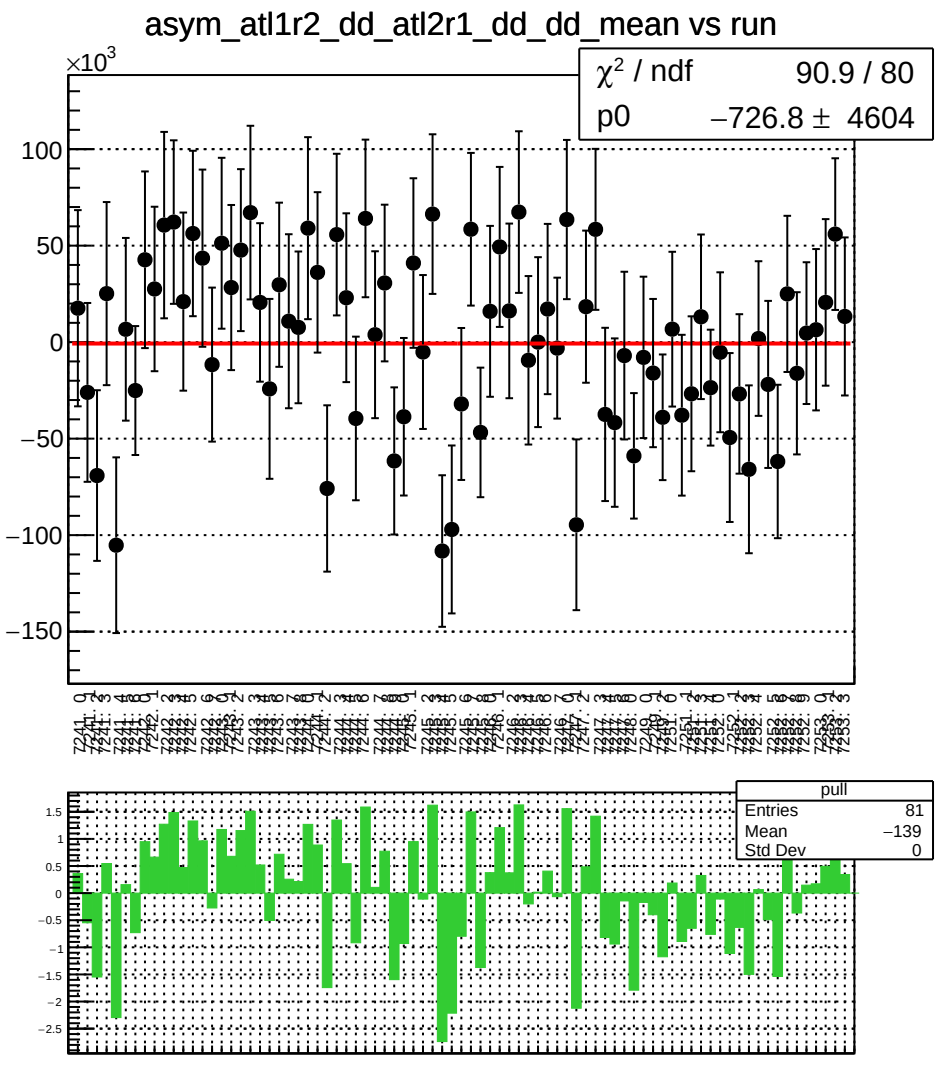

pull1D
Entries 81
Mean 0.0009191
Std Dev 0.9632

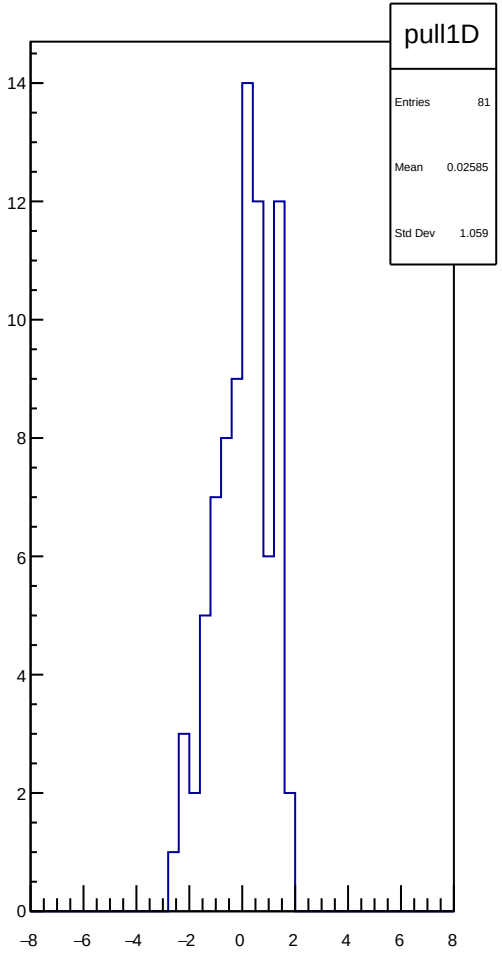

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 128.6 / 80
p0 1235 ± 0.9925
1270
1260
1250
1240
1230
1220
1210
1200

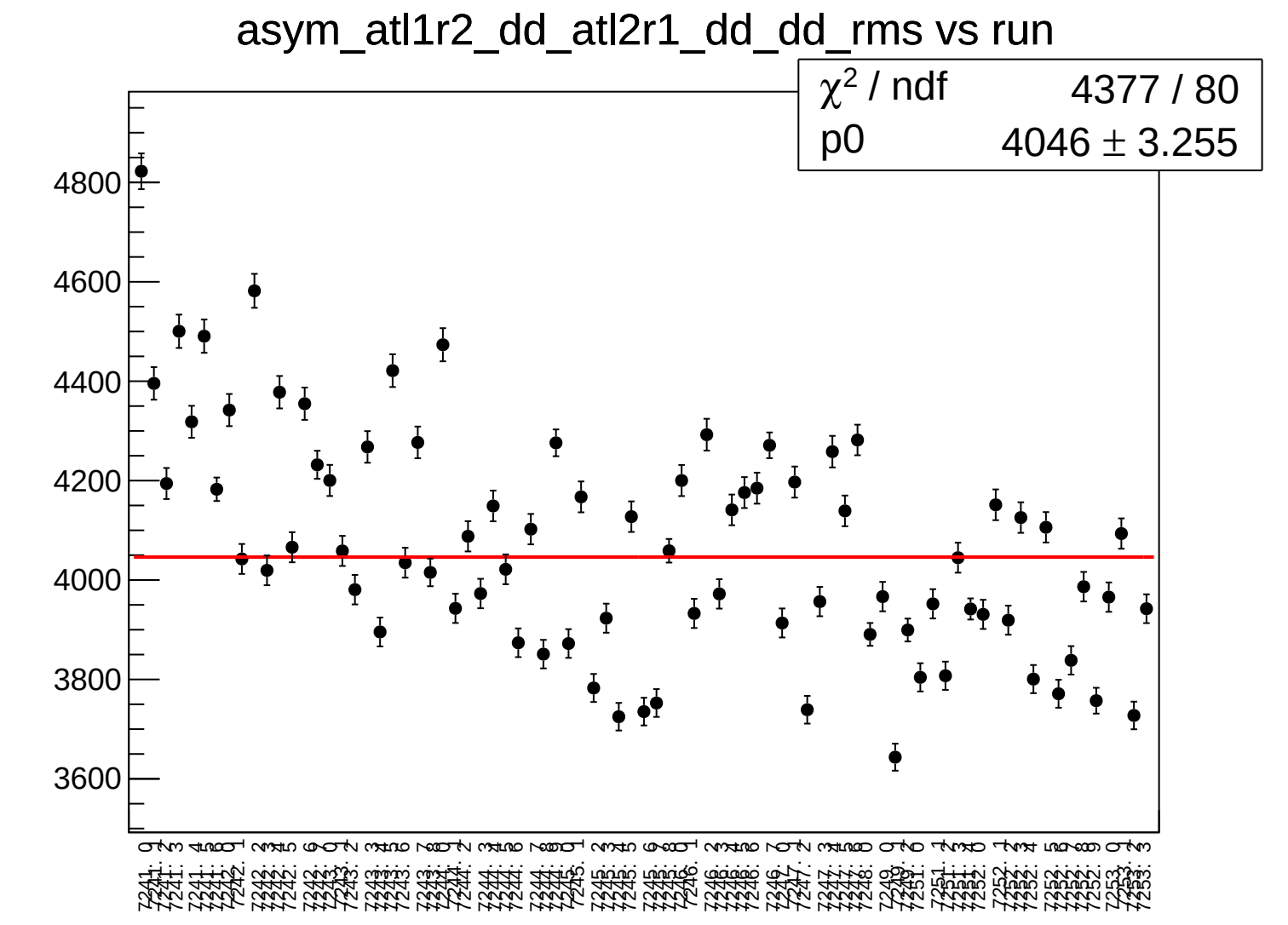

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 94.98 / 80
p0 450.2 ± 4212
150
100
50
0
−50
−100
pull
Entries 81
Mean −97.05
Std Dev 0
2
1
0
−1
−2

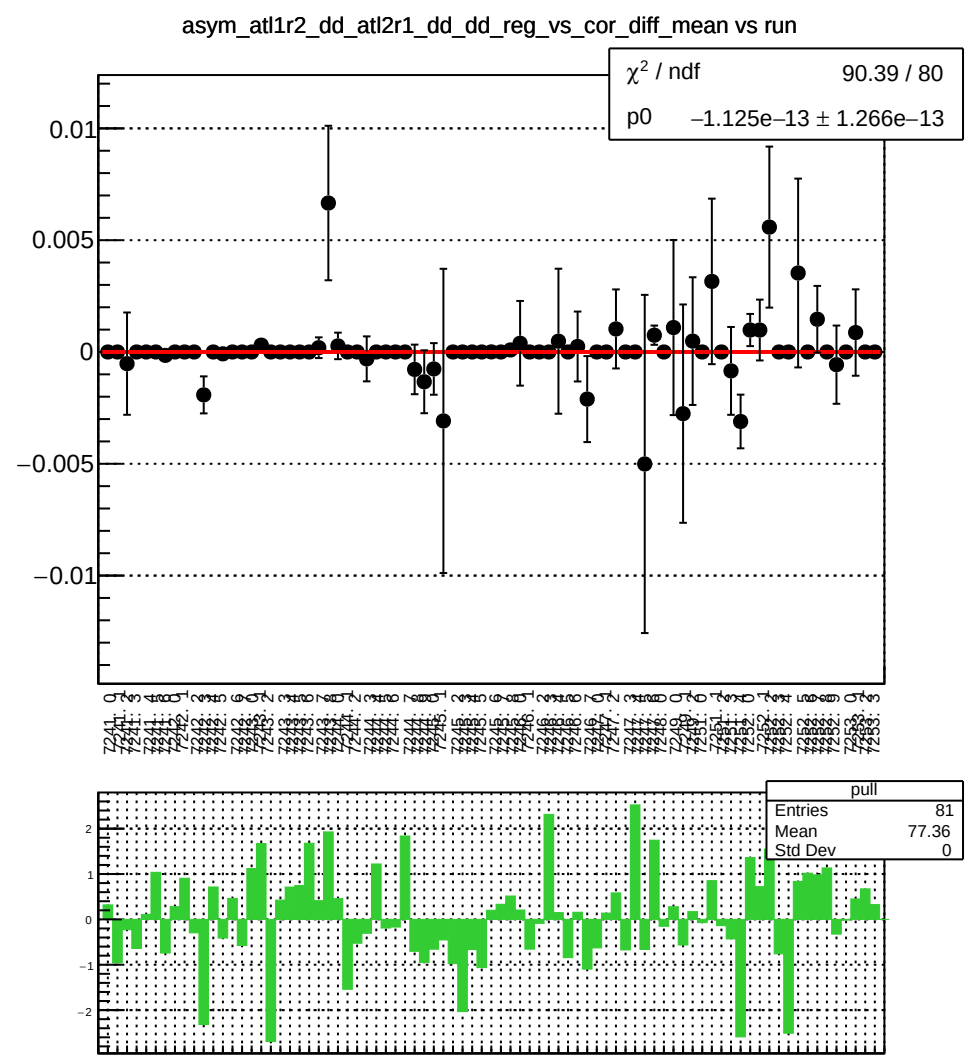

pull1D
Entries 81
Mean −0.0254
Std Dev 1.083
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

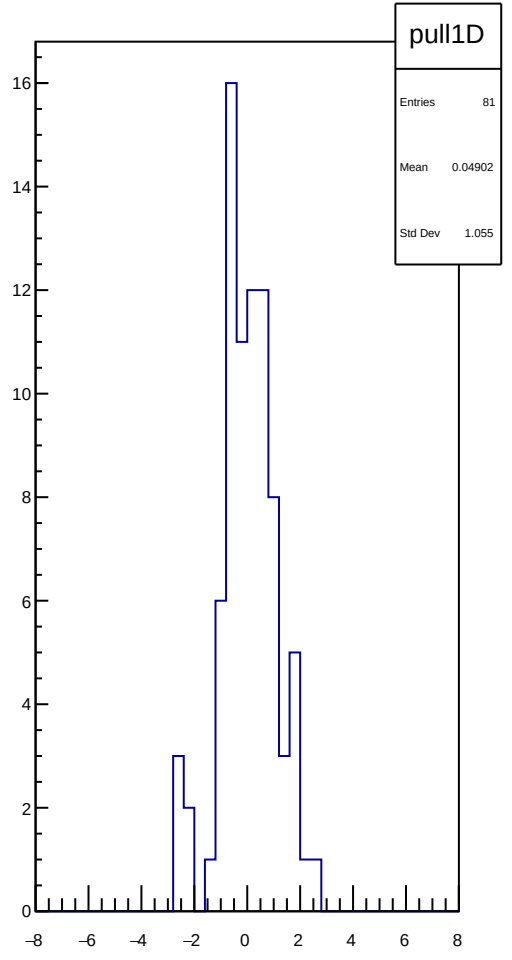

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 5236 / 80
p0 3701 ± 2.979
4600
4400
4200
4000
3800
3600
3400
3200

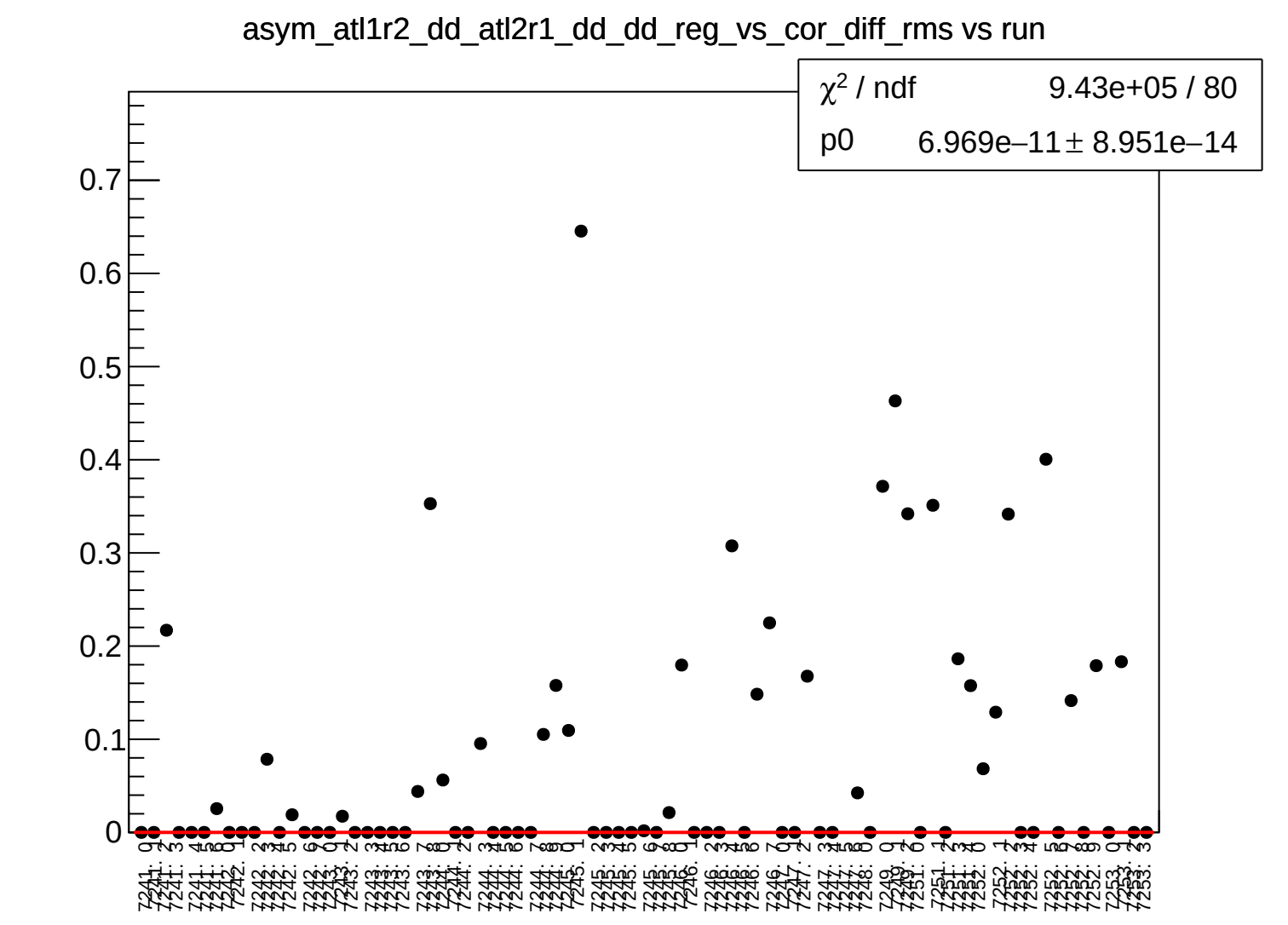

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 90.9 / 80
p0 −726.8 ± 4604
100
50
0
−50
−100
−150
pull
Entries 81
Mean −139
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

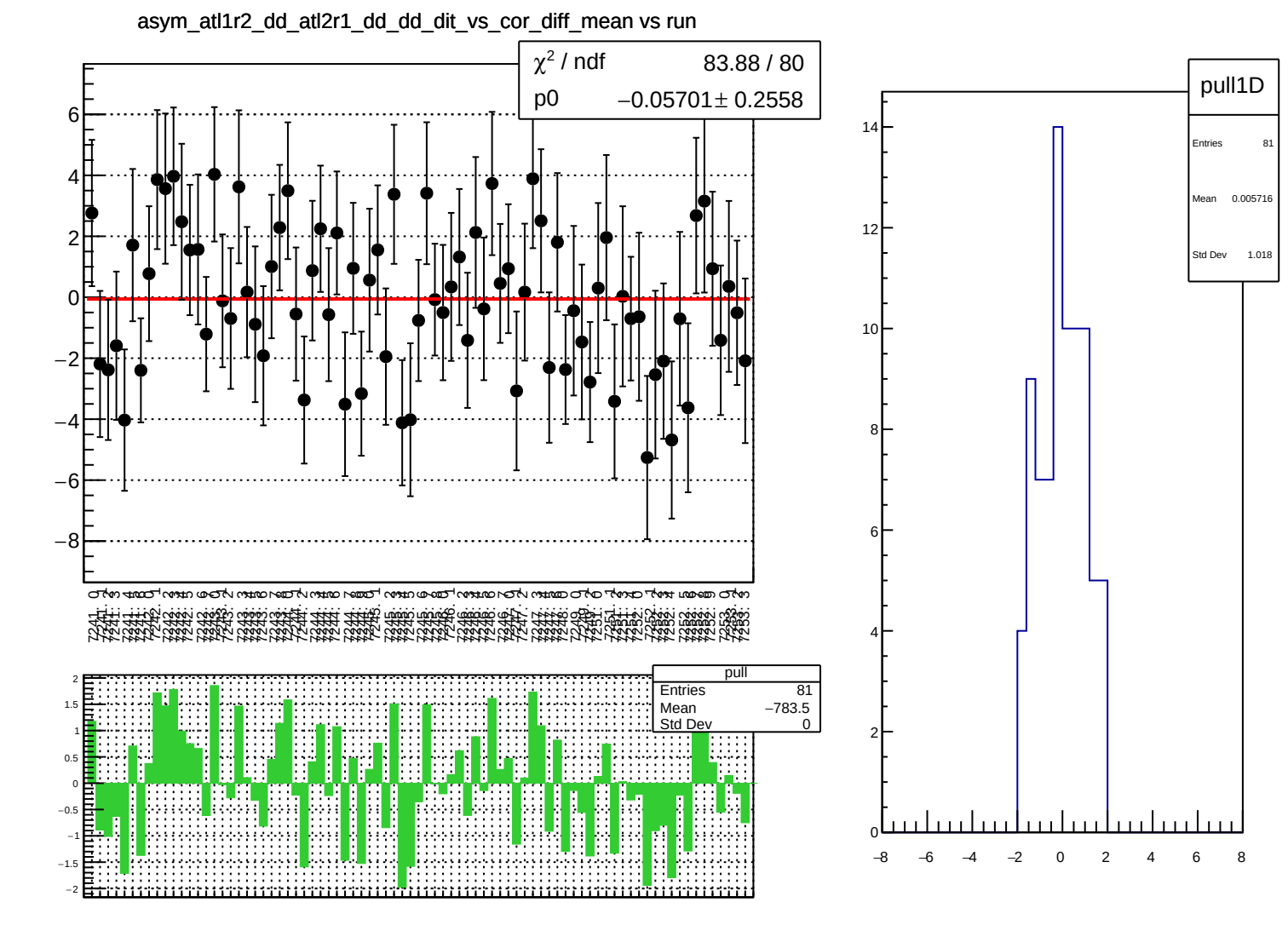

pull1D
Entries 81
Mean 0.02585
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

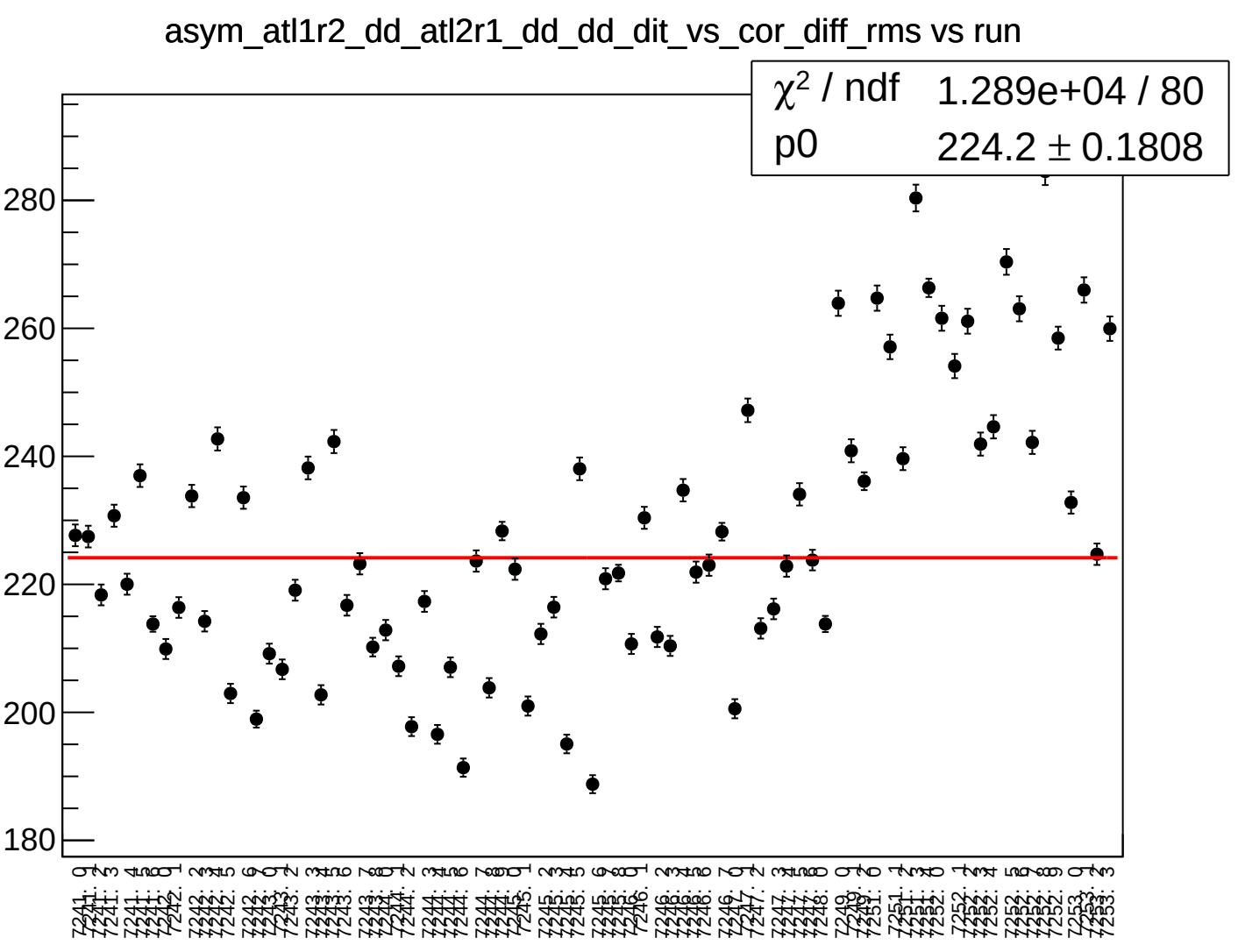

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 4377 / 80
p0 4046 ± 3.255
4800
4600
4400
4200
4000
3800
3600

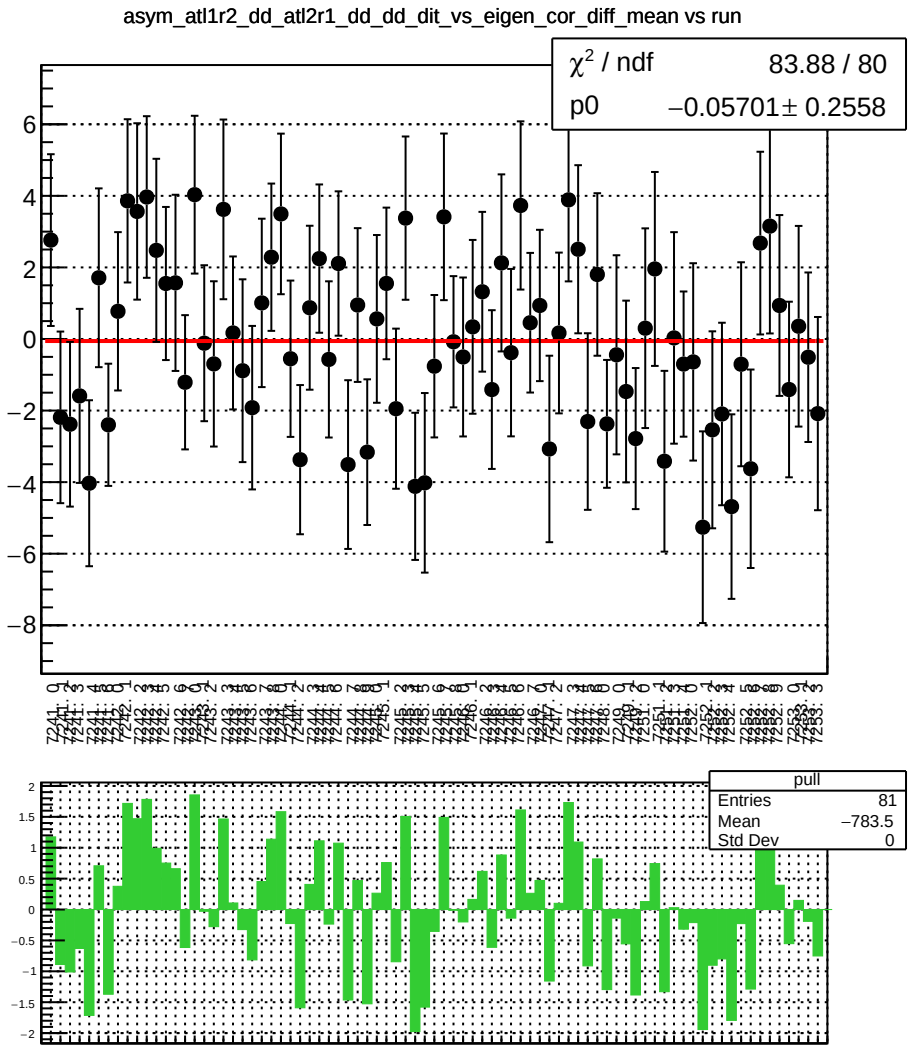

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 90.39 / 80
p0 −1.125e−13 ± 1.266e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 81
Mean 77.36
Std Dev 0
2
1
0
−1
−2

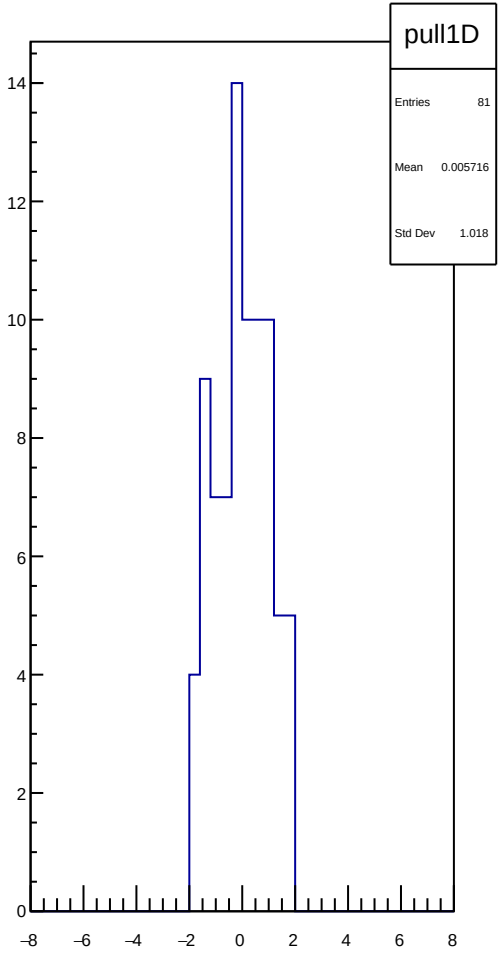

pull1D
Entries 81
Mean 0.04902
Std Dev 1.055
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

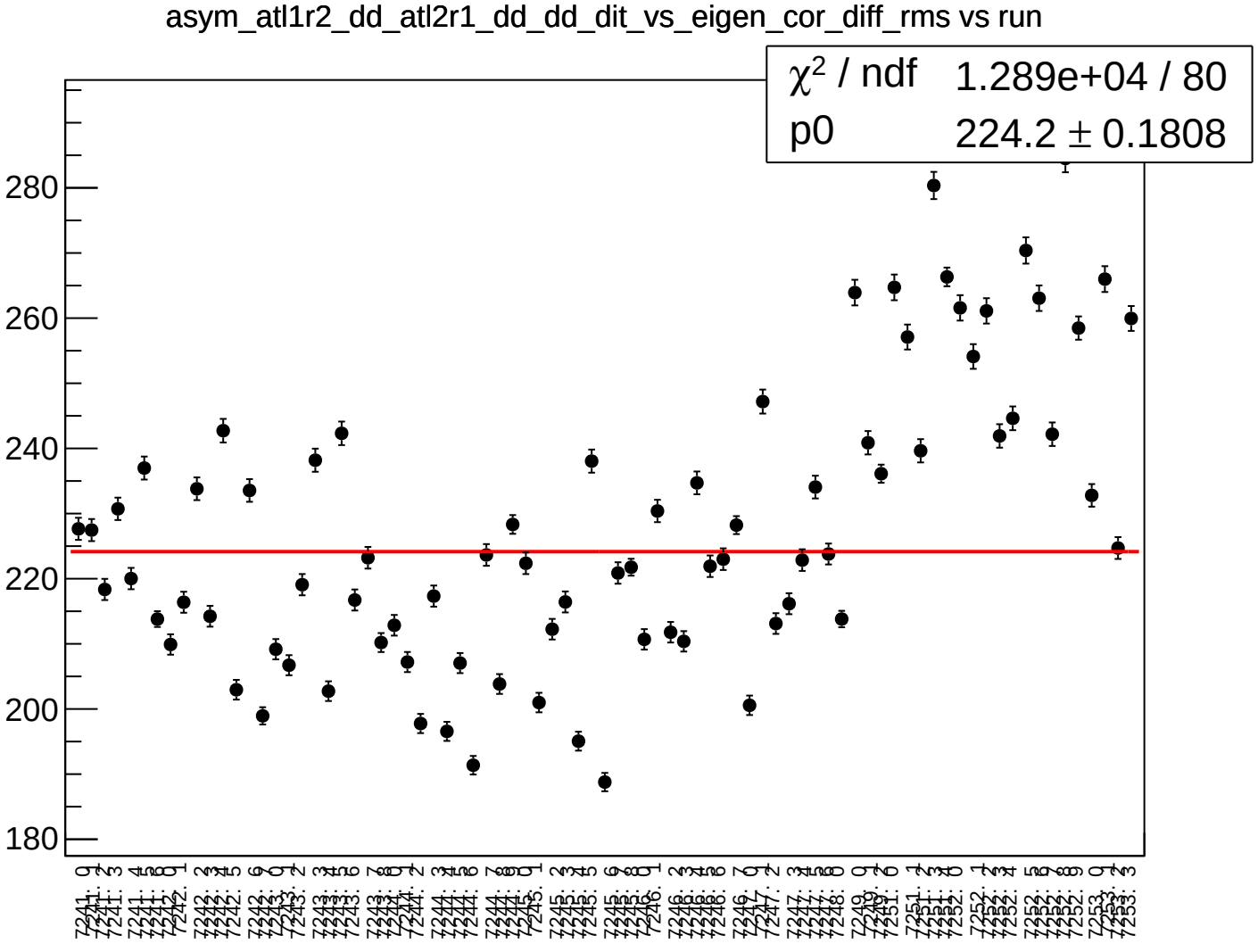

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.43e+05 / 80
p0 6.969e−11 ± 8.951e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

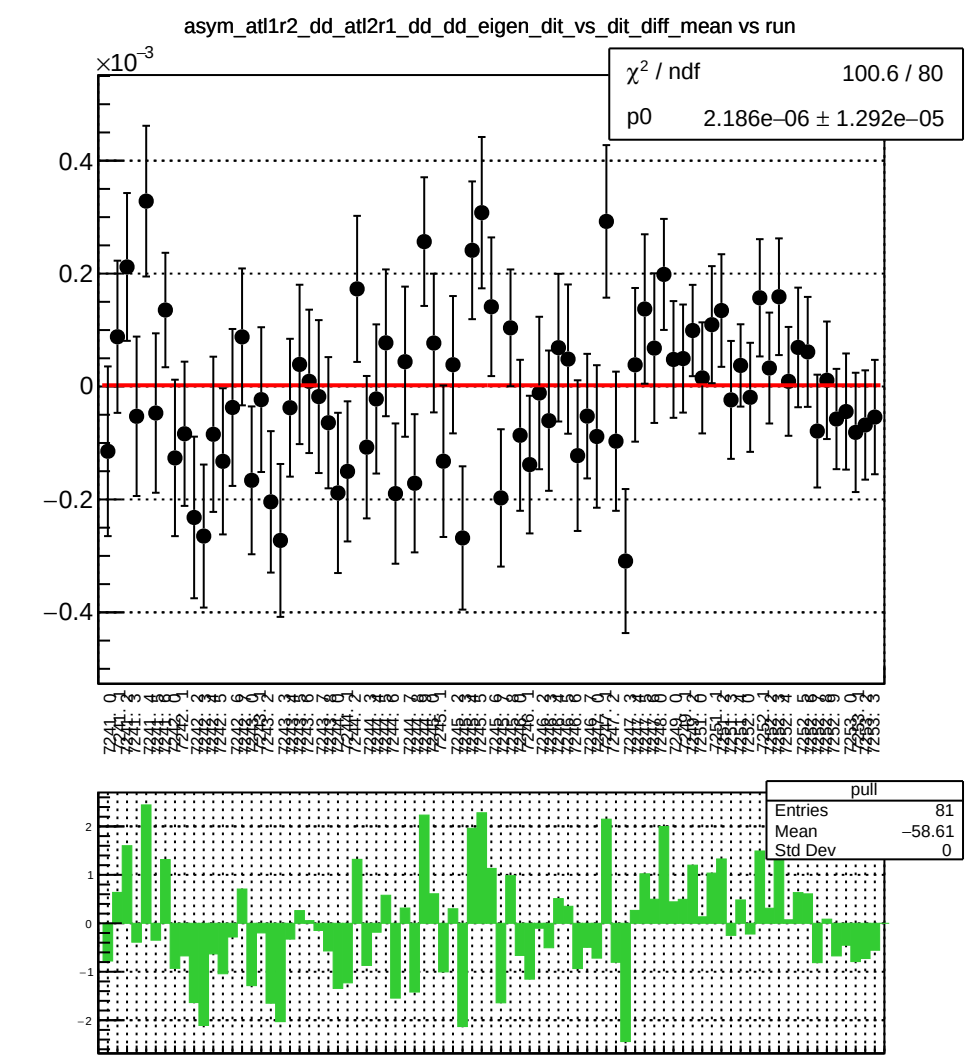

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 83.88 / 80
p0 −0.05701 ± 0.2558
pull
Entries 81
Mean −783.5
Std Dev 0
pull1D
Entries 81
Mean 0.005716
Std Dev 1.018

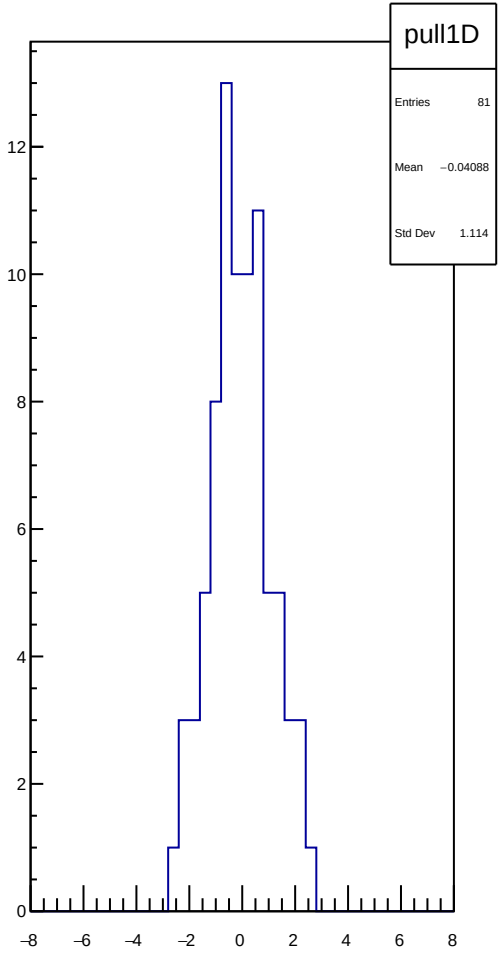

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.289e+04 / 80
p0 224.2 ± 0.1808
280
260
240
220
200
180

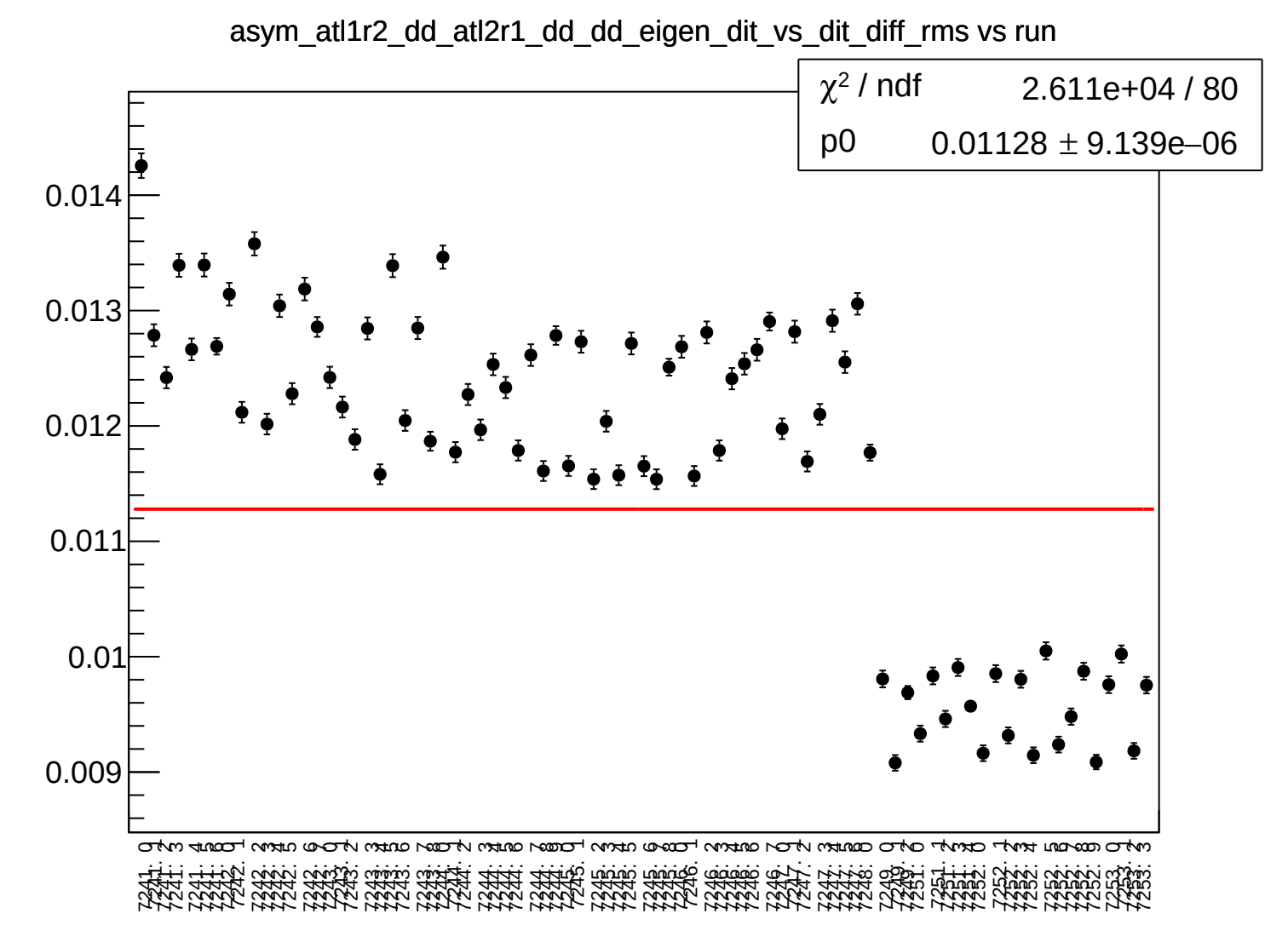

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.88 / 80
p0 −0.05701 ± 0.2558
pull
Entries 81
Mean −783.5
Std Dev 0

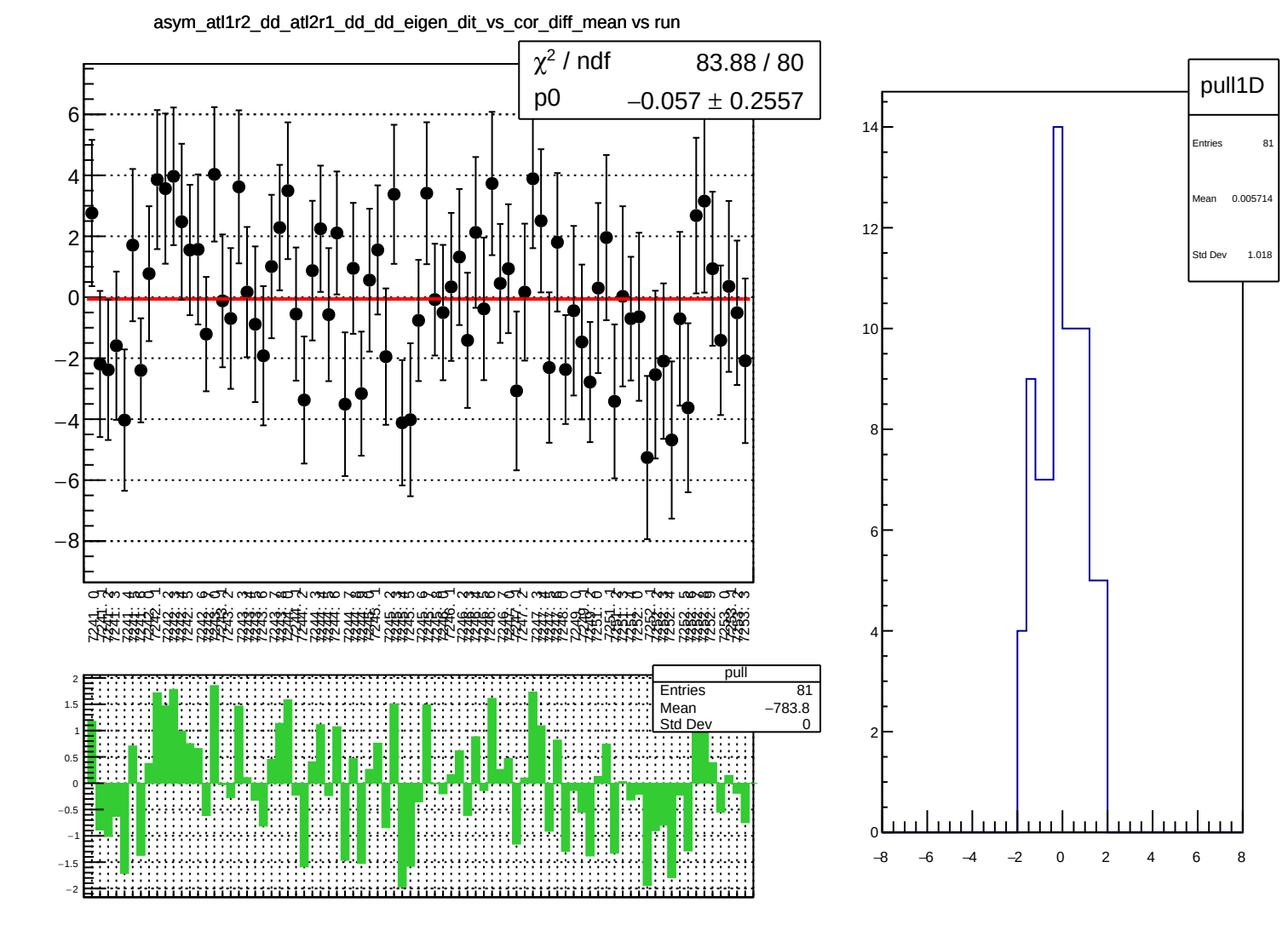

pull1D
Entries 81
Mean 0.005716
Std Dev 1.018

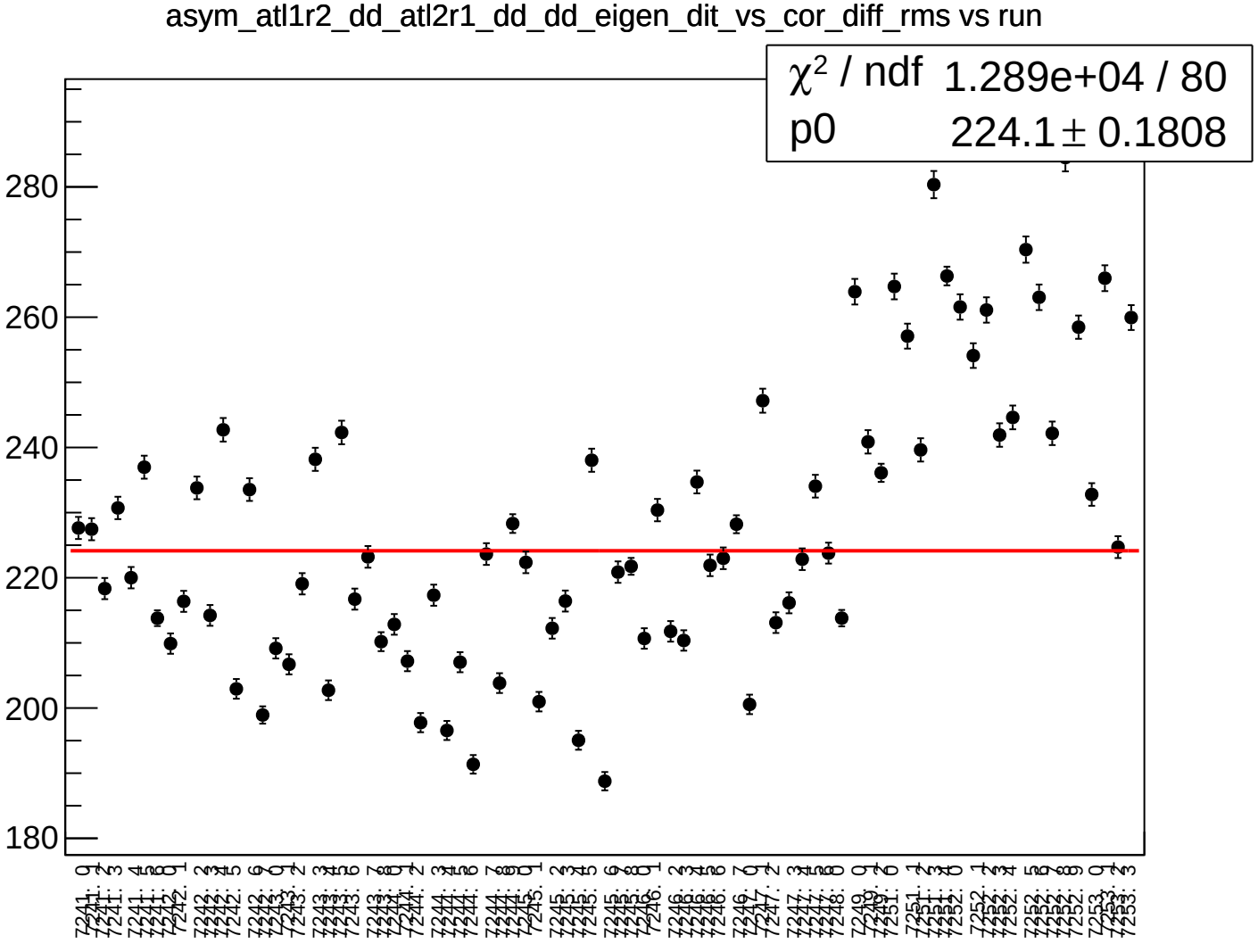

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.289e+04 / 80
p0 224.2 ± 0.1808
280
260
240
220
200
180

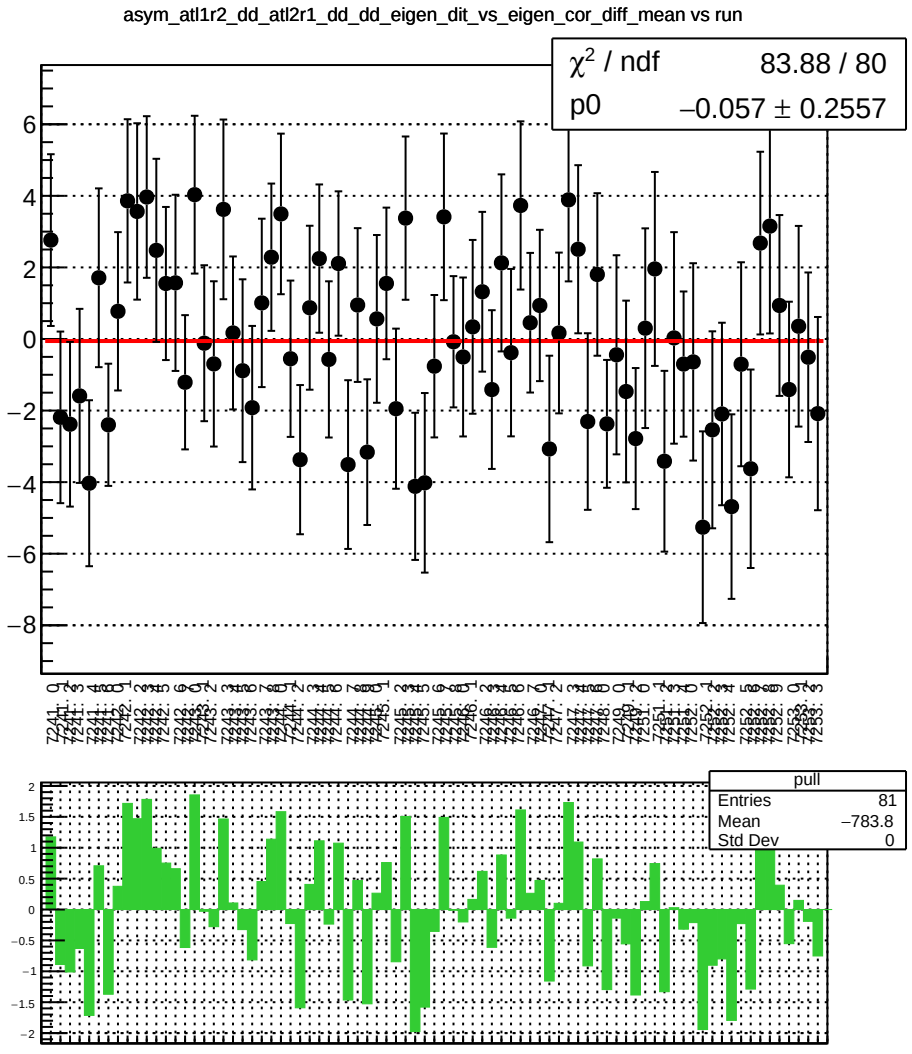

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.6 / 80
p0 2.186e−06 ± 1.292e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 81
Mean −58.61
Std Dev 0
2
1
0
−1
−2

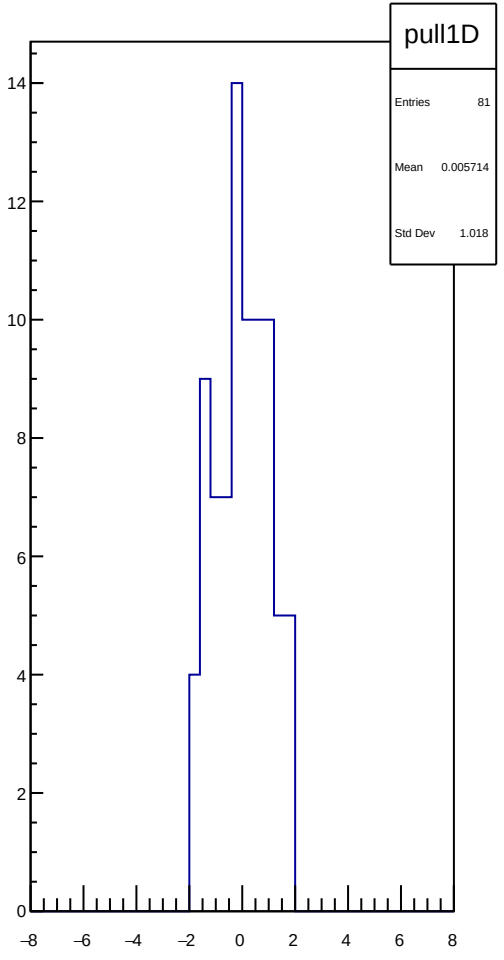

pull1D
Entries 81
Mean −0.04088
Std Dev 1.114
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

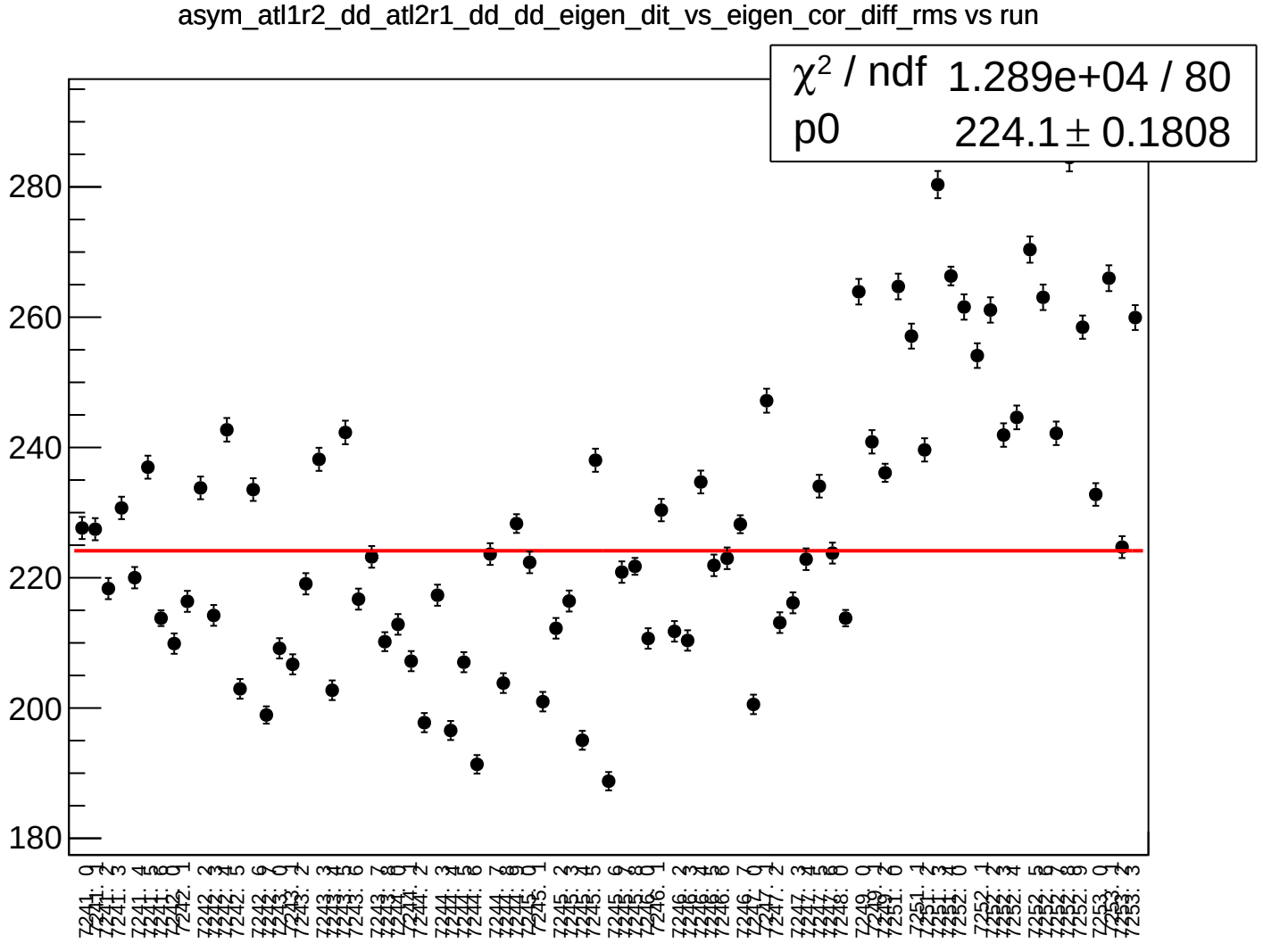

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.611e+04 / 80
p0 0.01128 ± 9.139e−06
0.014
0.013
0.012
0.011
0.01
0.009

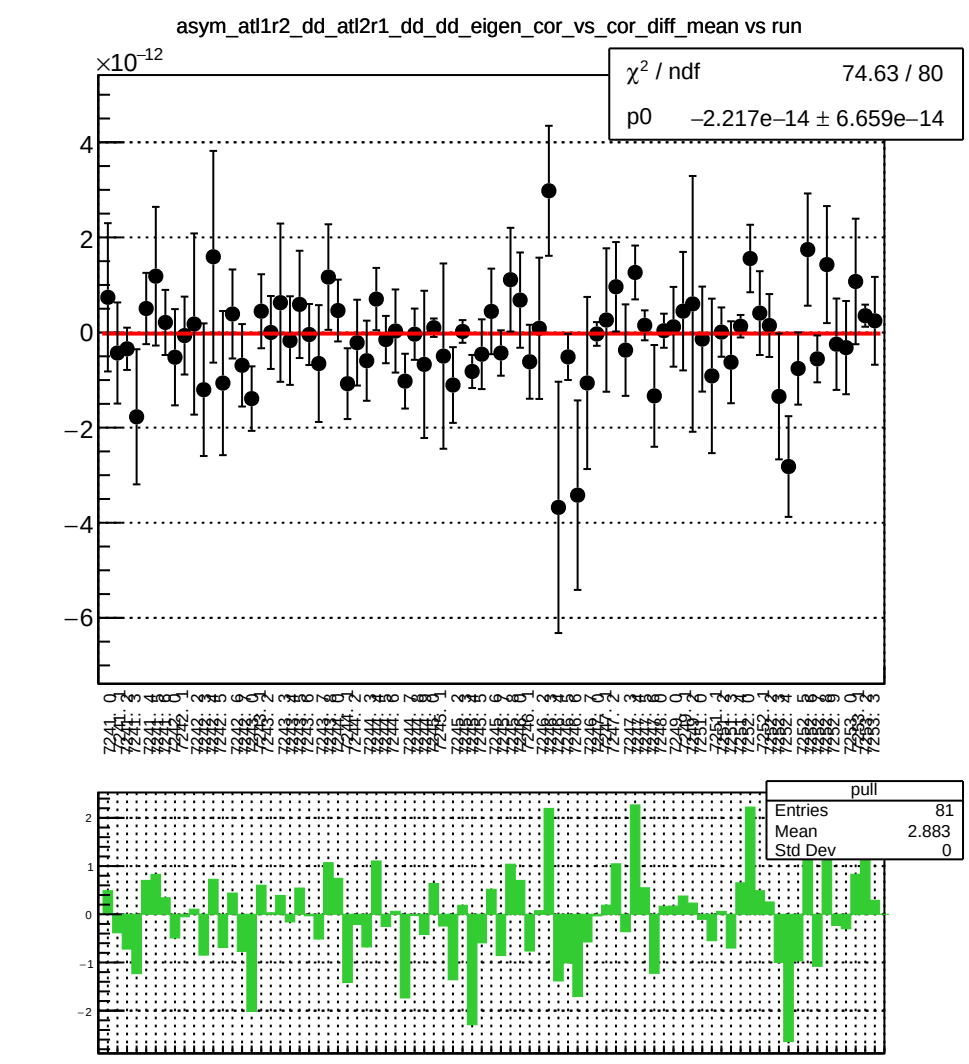

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.88 / 80
p0 −0.057 ± 0.2557
pull
Entries 81
Mean −783.8
Std Dev 0
pull1D
Entries 81
Mean 0.005714
Std Dev 1.018

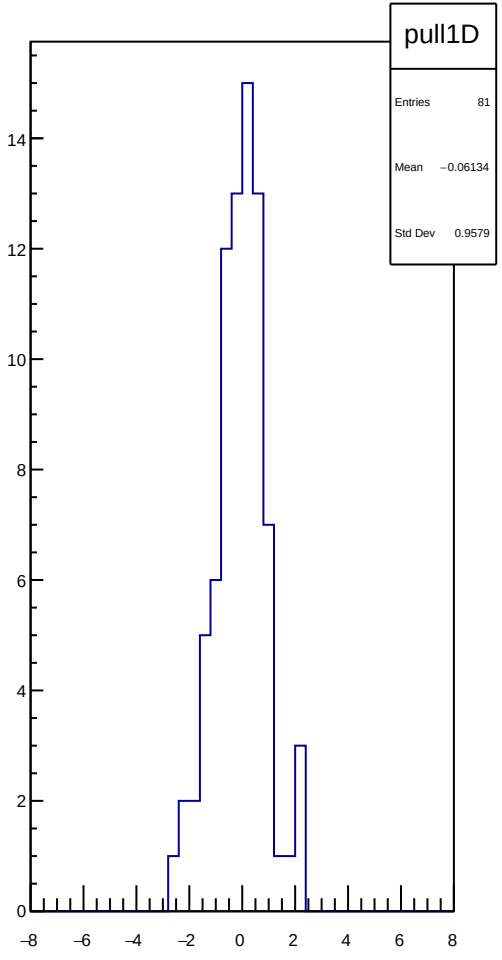

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.289e+04 / 80
p0 224.1 ± 0.1808
280
260
240
220
200
180

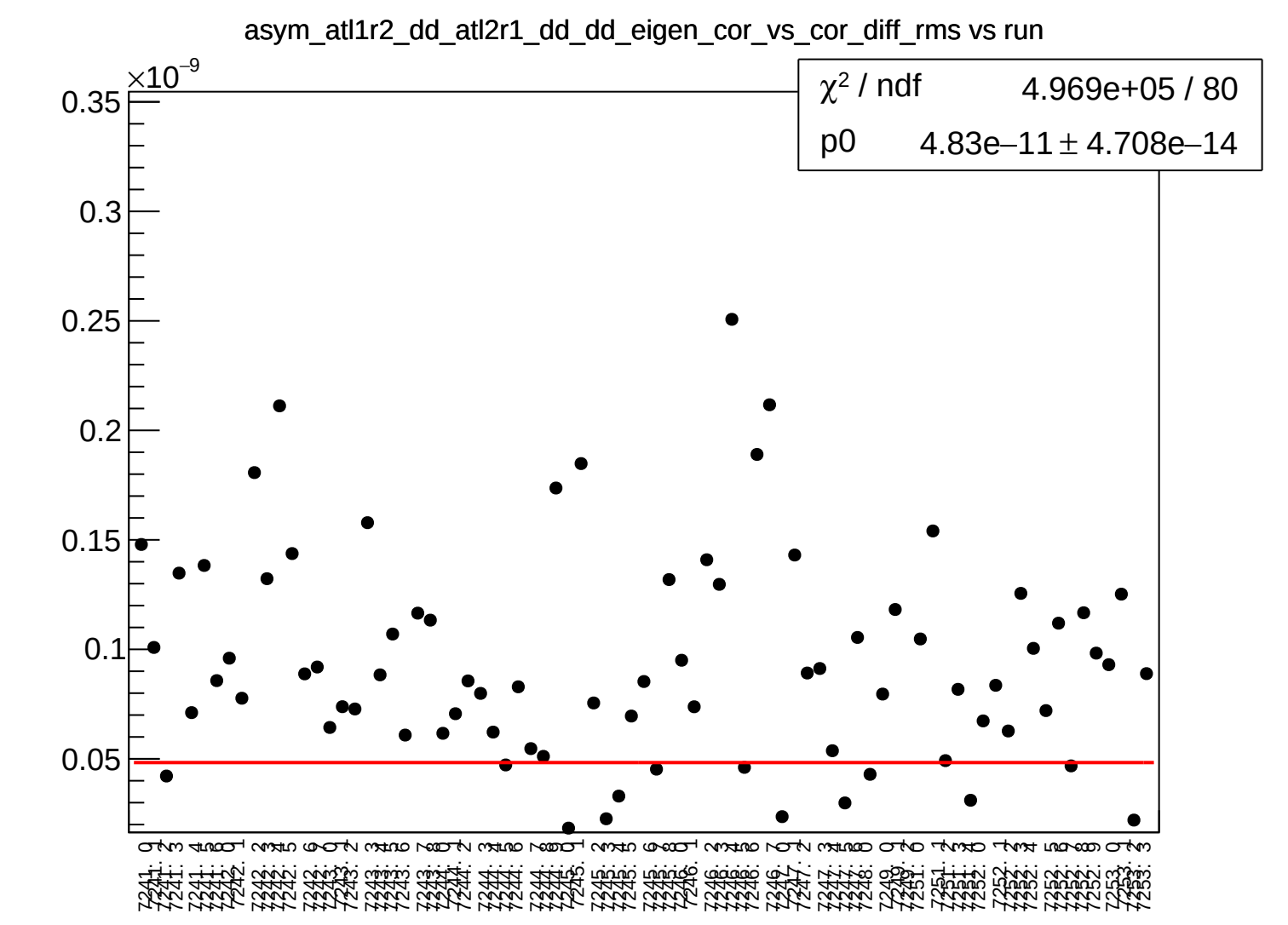

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.88 / 80
p0 −0.057 ± 0.2557
pull
Entries 81
Mean −783.8
Std Dev 0

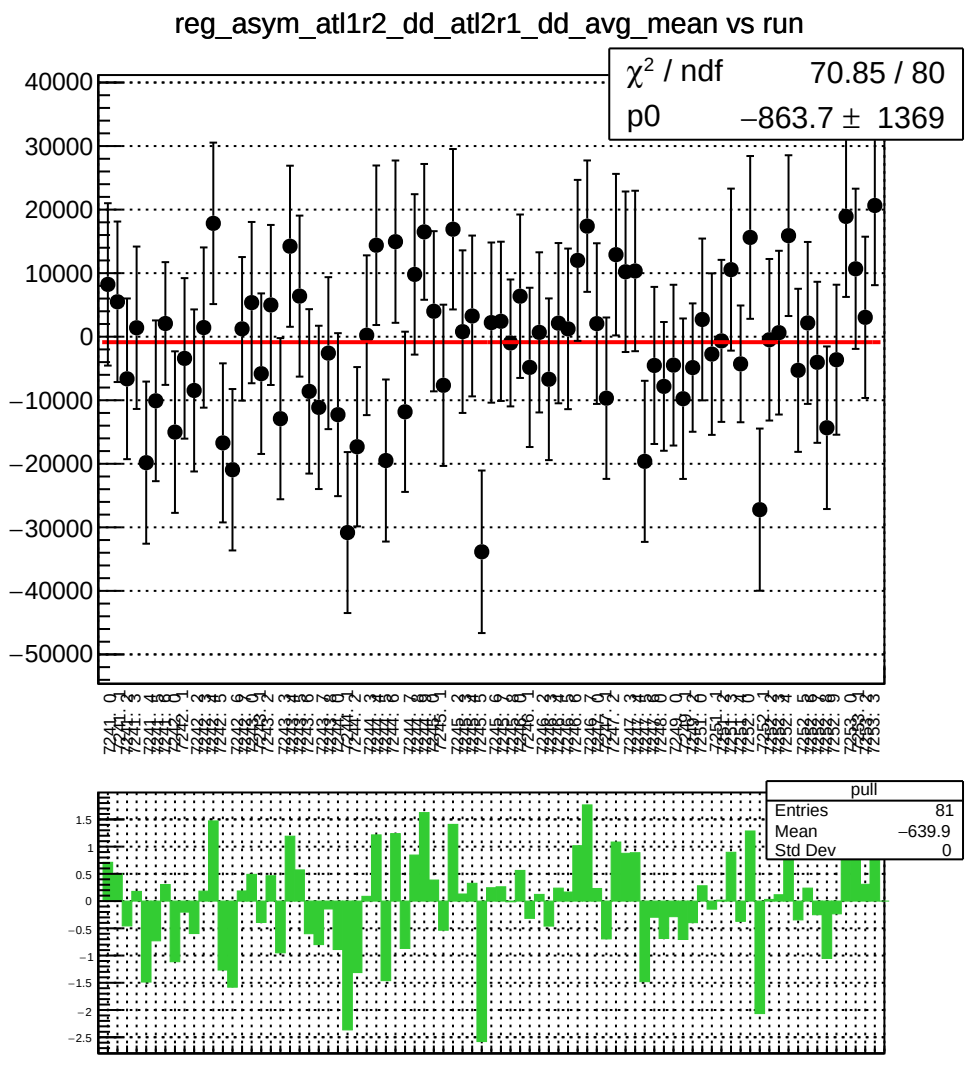

pull1D
Entries 81
Mean 0.005714
Std Dev 1.018

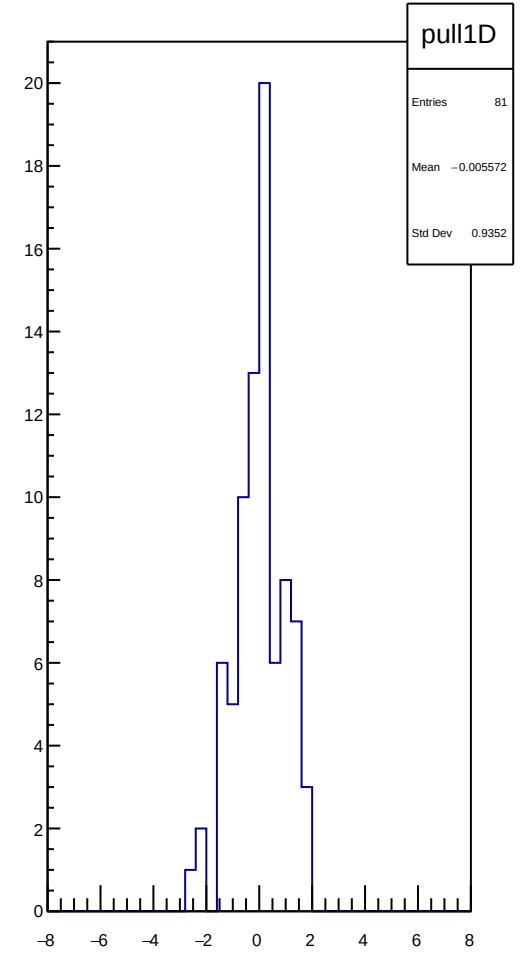

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.289e+04 / 80
p0 224.1 ± 0.1808
280
260
240
220
200
180

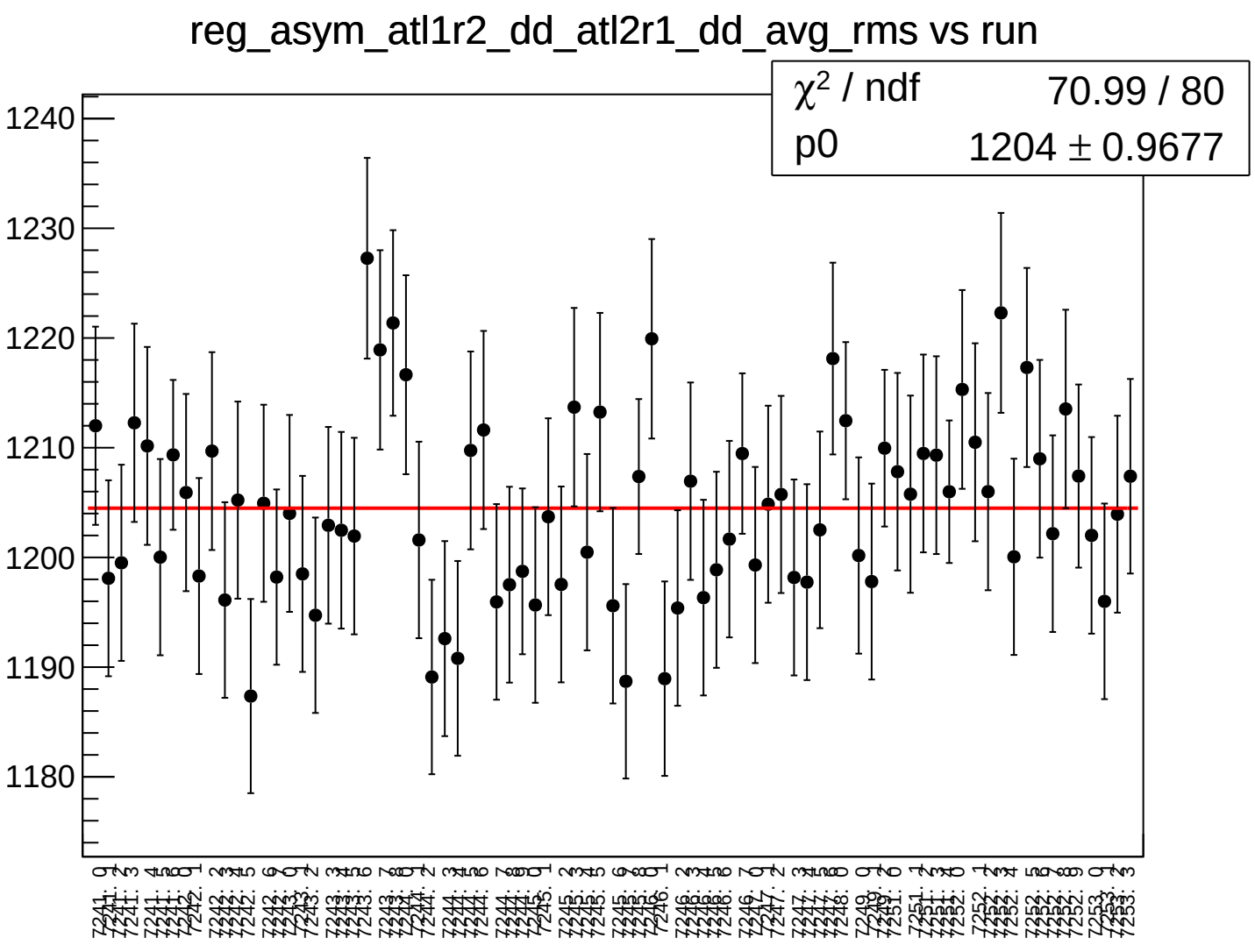

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.63 / 80
p0 −2.217e−14 ± 6.659e−14
pull
Entries 81
Mean 2.883
Std Dev 0

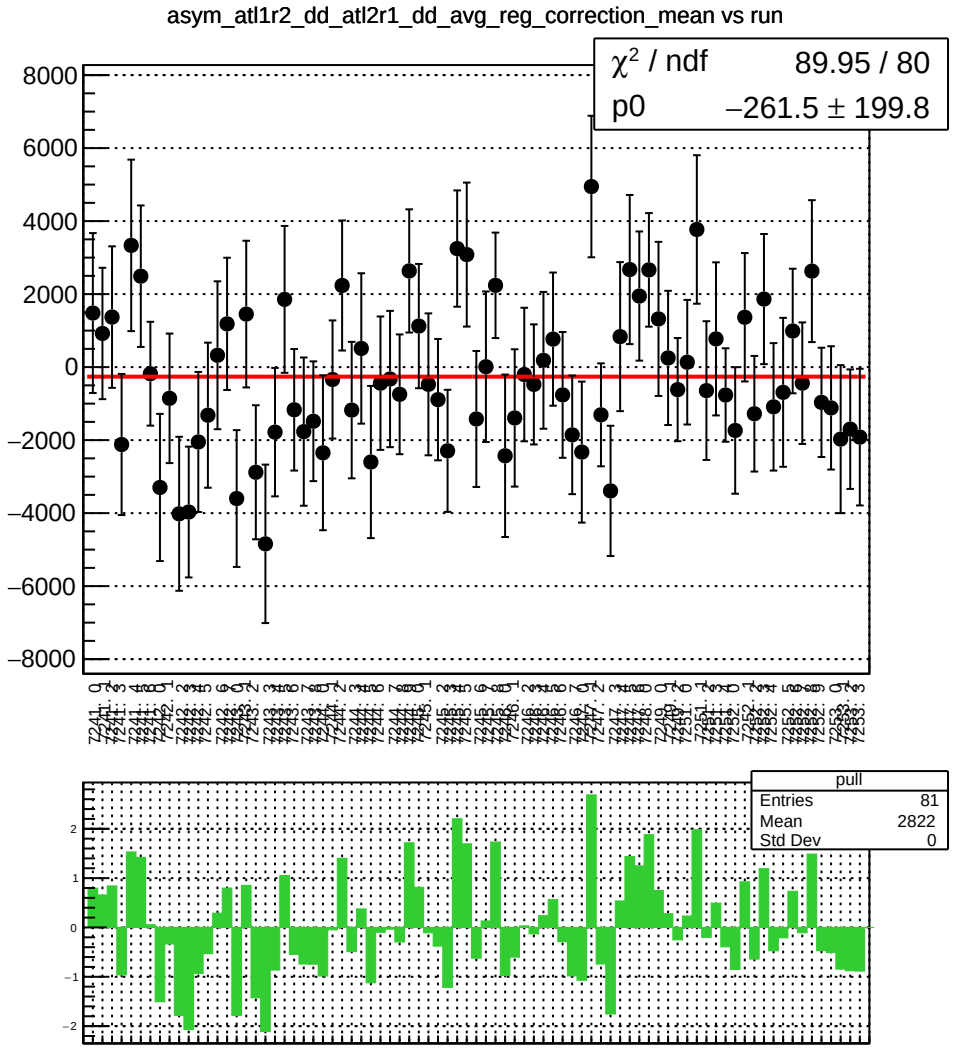

pull1D
Entries 81
Mean −0.06134
Std Dev 0.9579

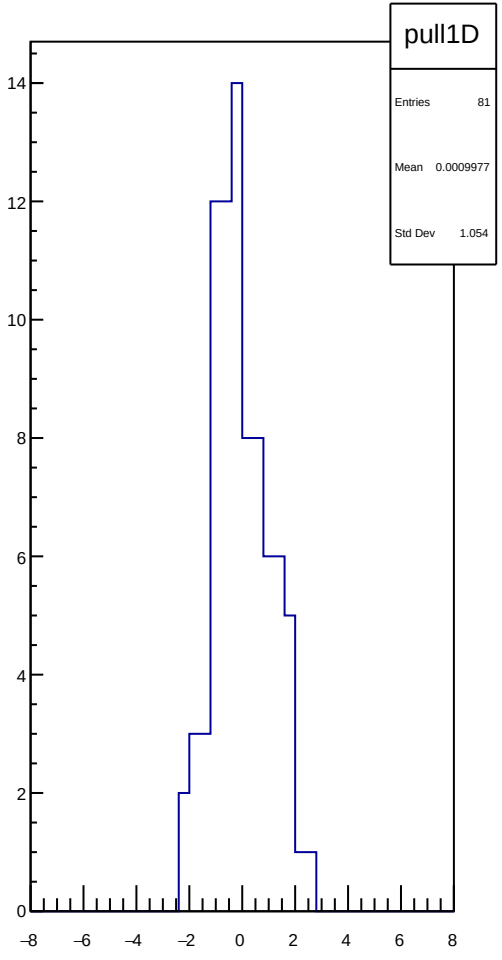

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.969e+05 / 80
p0 4.83e−11 ± 4.708e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

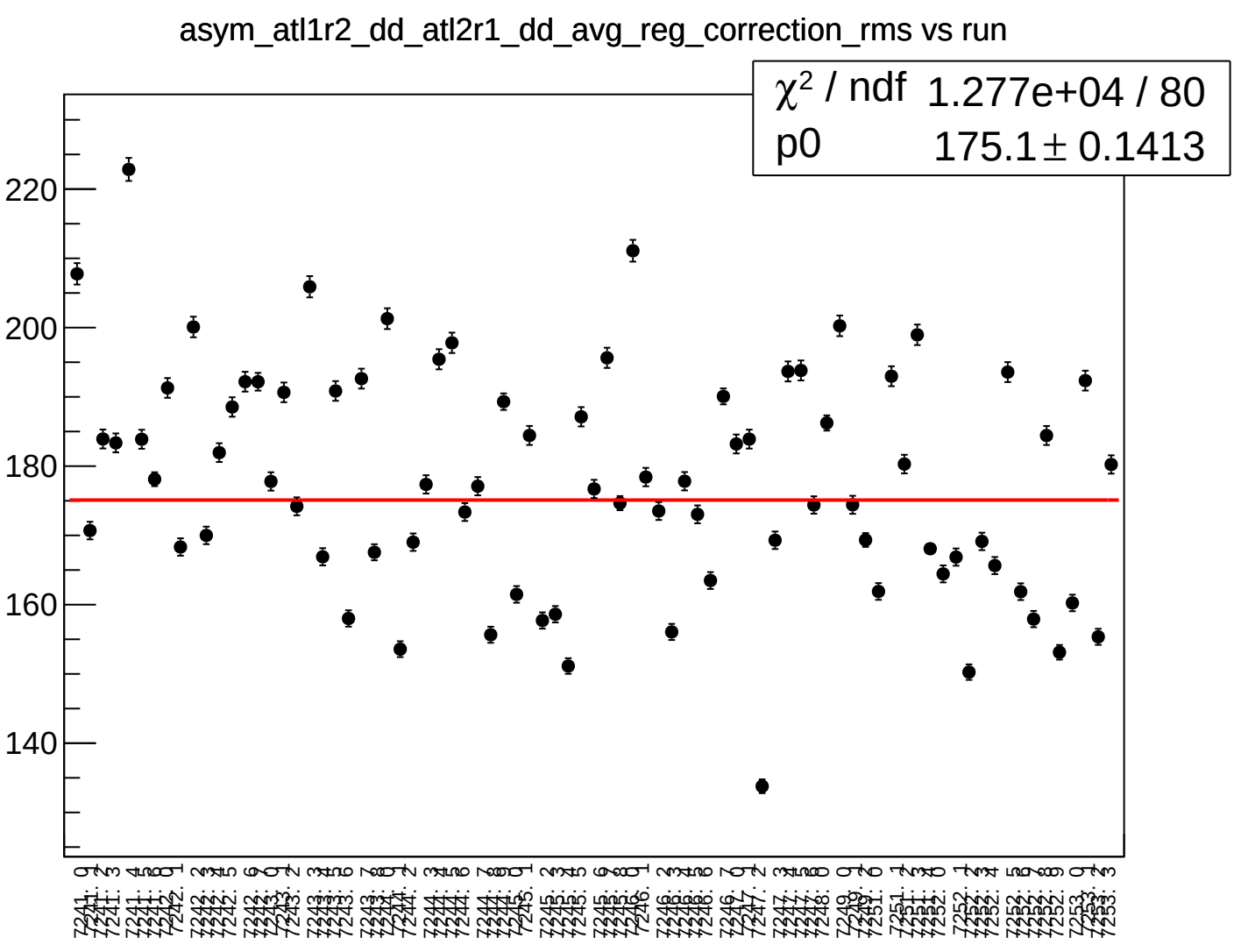

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 70.85 / 80
p0 −863.7 ± 1369
pull
Entries 81
Mean −639.9
Std Dev 0

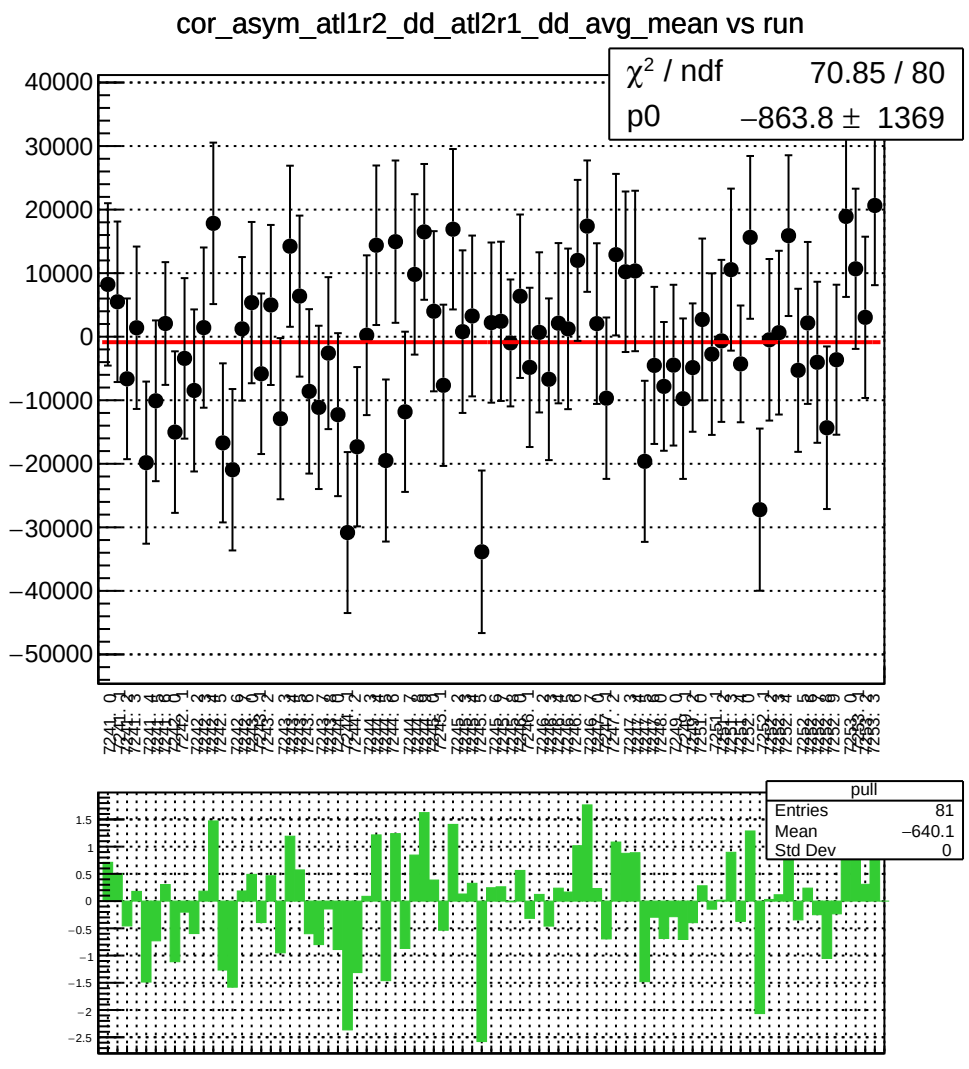

pull1D
Entries 81
Mean −0.005572
Std Dev 0.9352

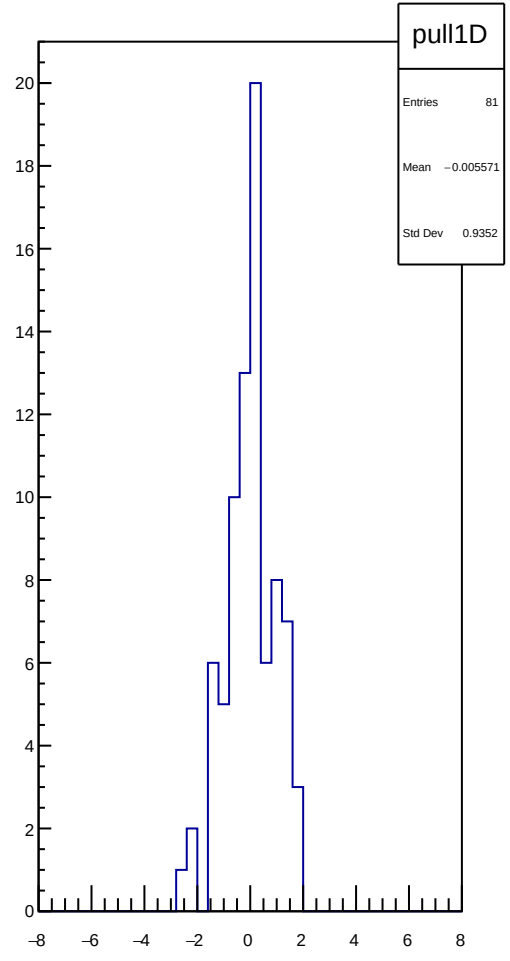

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ^2 / ndf 70.99 / 80
p0 1204 ± 0.9677
1240
1230
1220
1210
1200
1190
1180

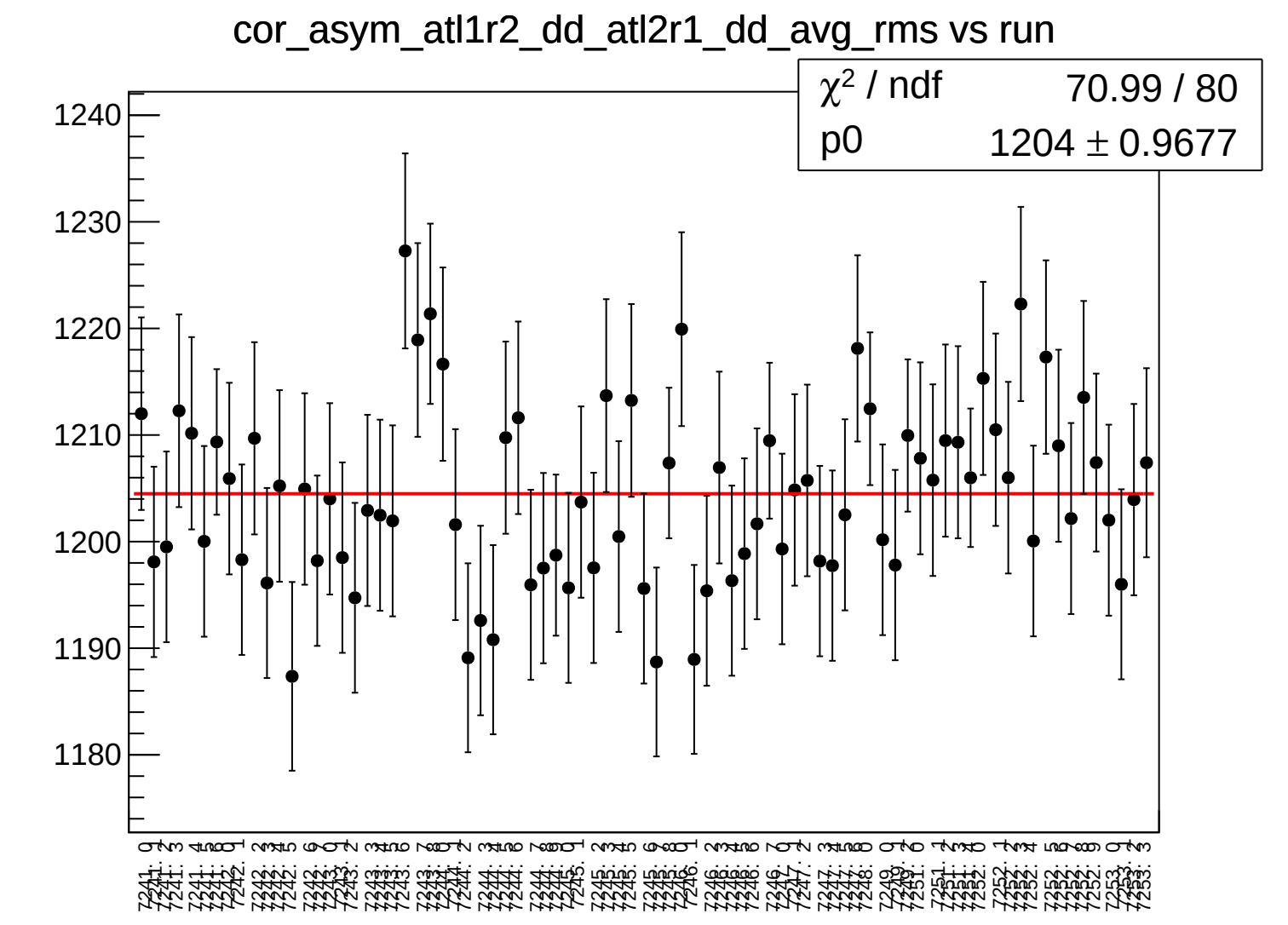

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 89.95 / 80
p0 −261.5 ± 199.8
pull
Entries 81
Mean 2822
Std Dev 0

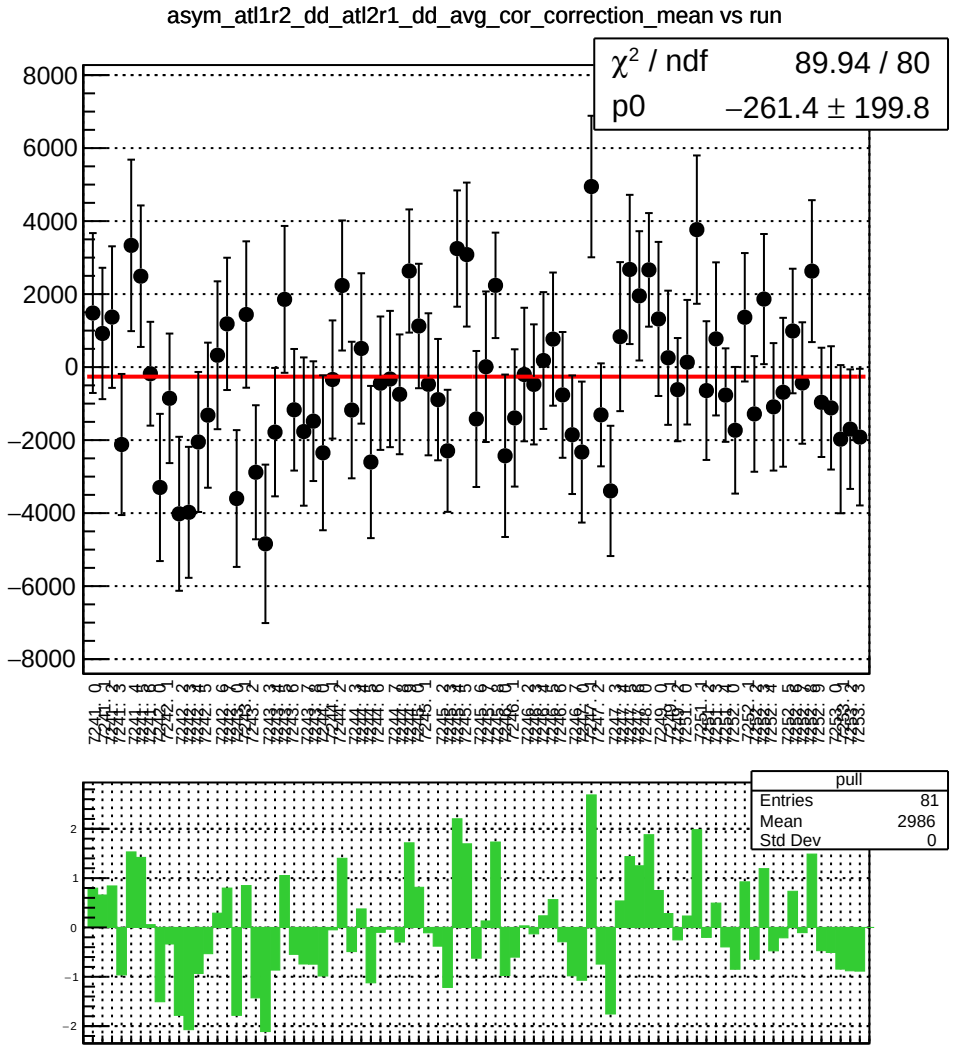

pull1D
Entries 81
Mean 0.0009977
Std Dev 1.054

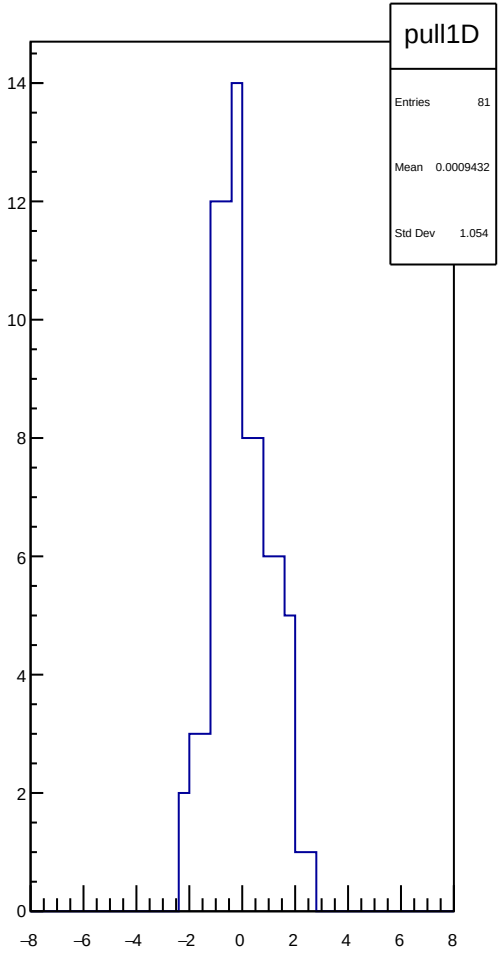

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 1.277e+04 / 80
p0 175.1 ± 0.1413
220
200
180
160
140

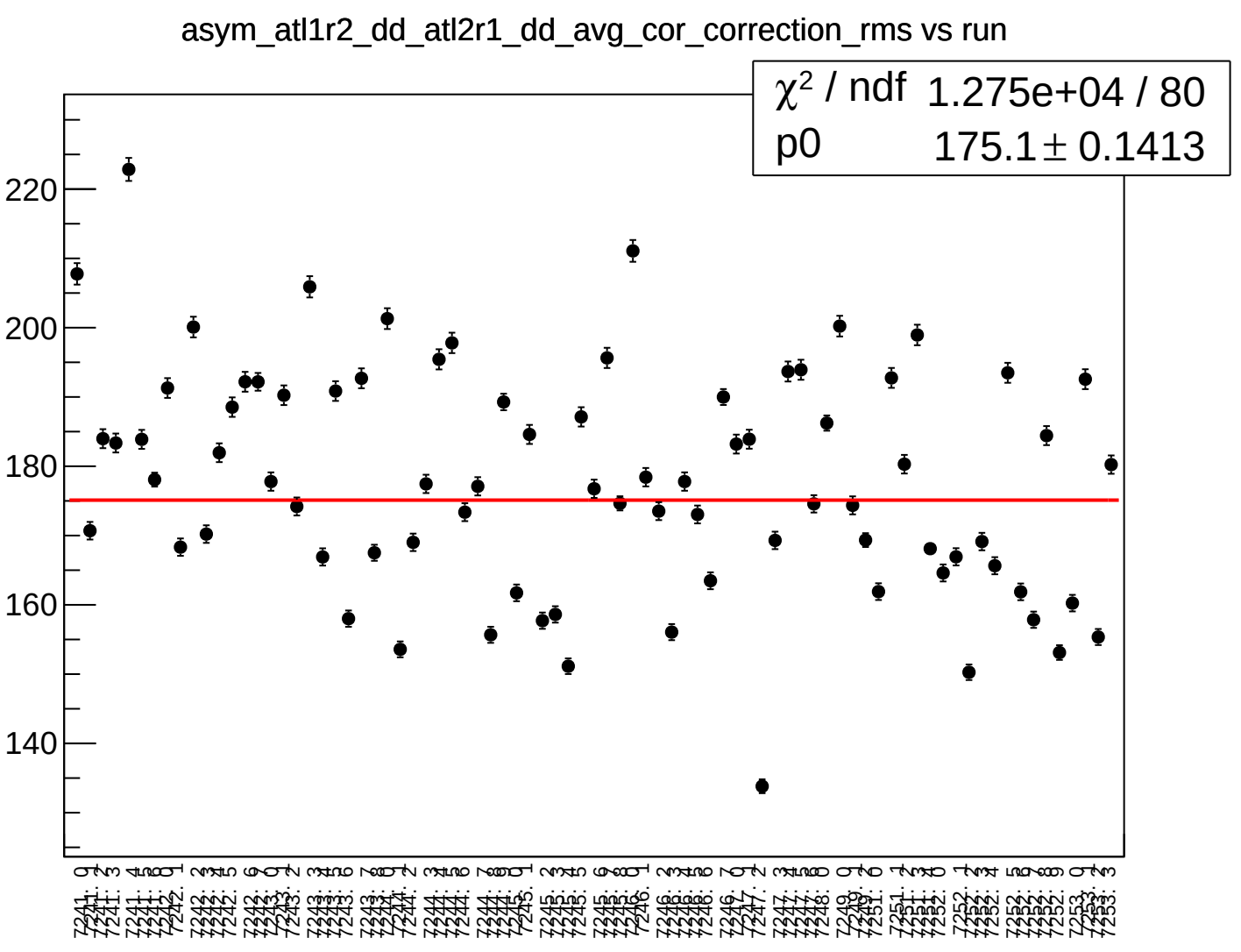

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 70.85 / 80
p0 −863.8 ± 1369
pull
Entries 81
Mean −640.1
Std Dev 0

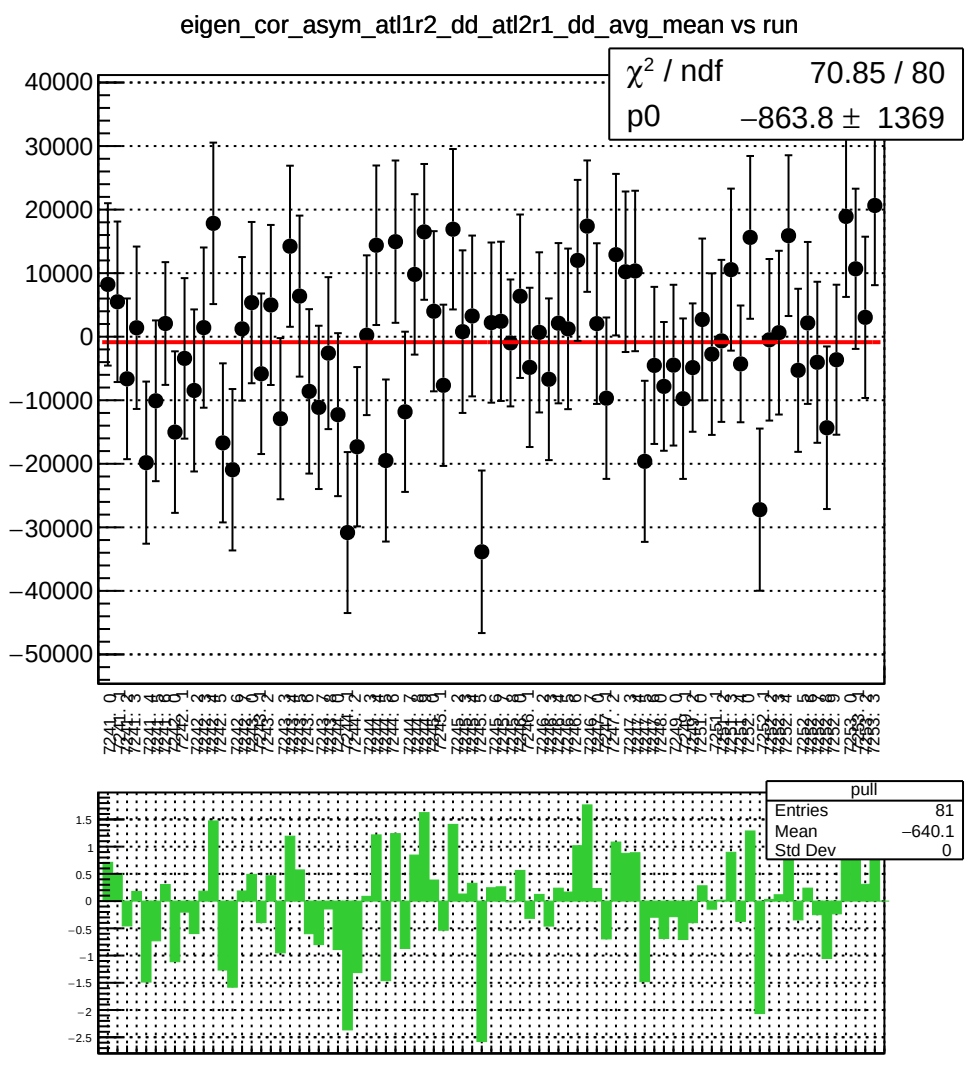

pull1D
Entries 81
Mean −0.005571
Std Dev 0.9352

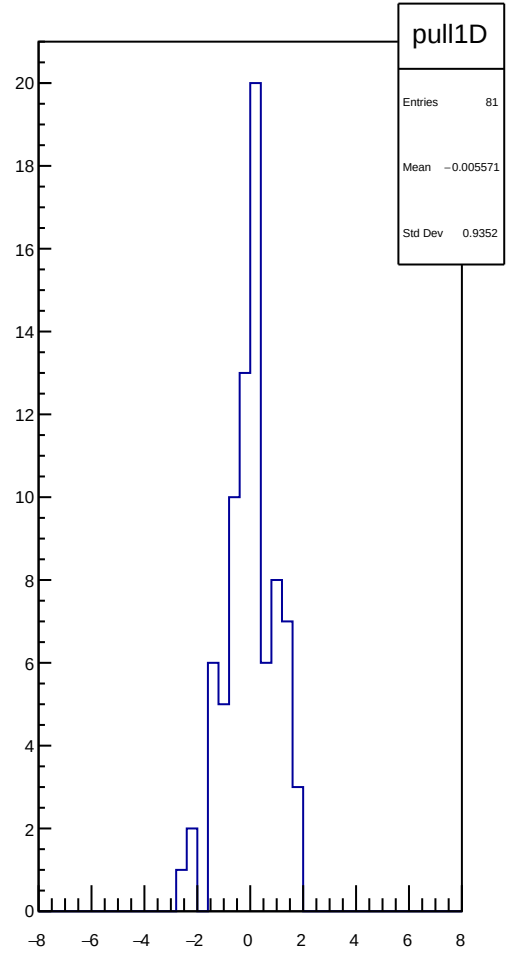

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 70.99 / 80
p0 1204 ± 0.9677
1240
1230
1220
1210
1200
1190
1180

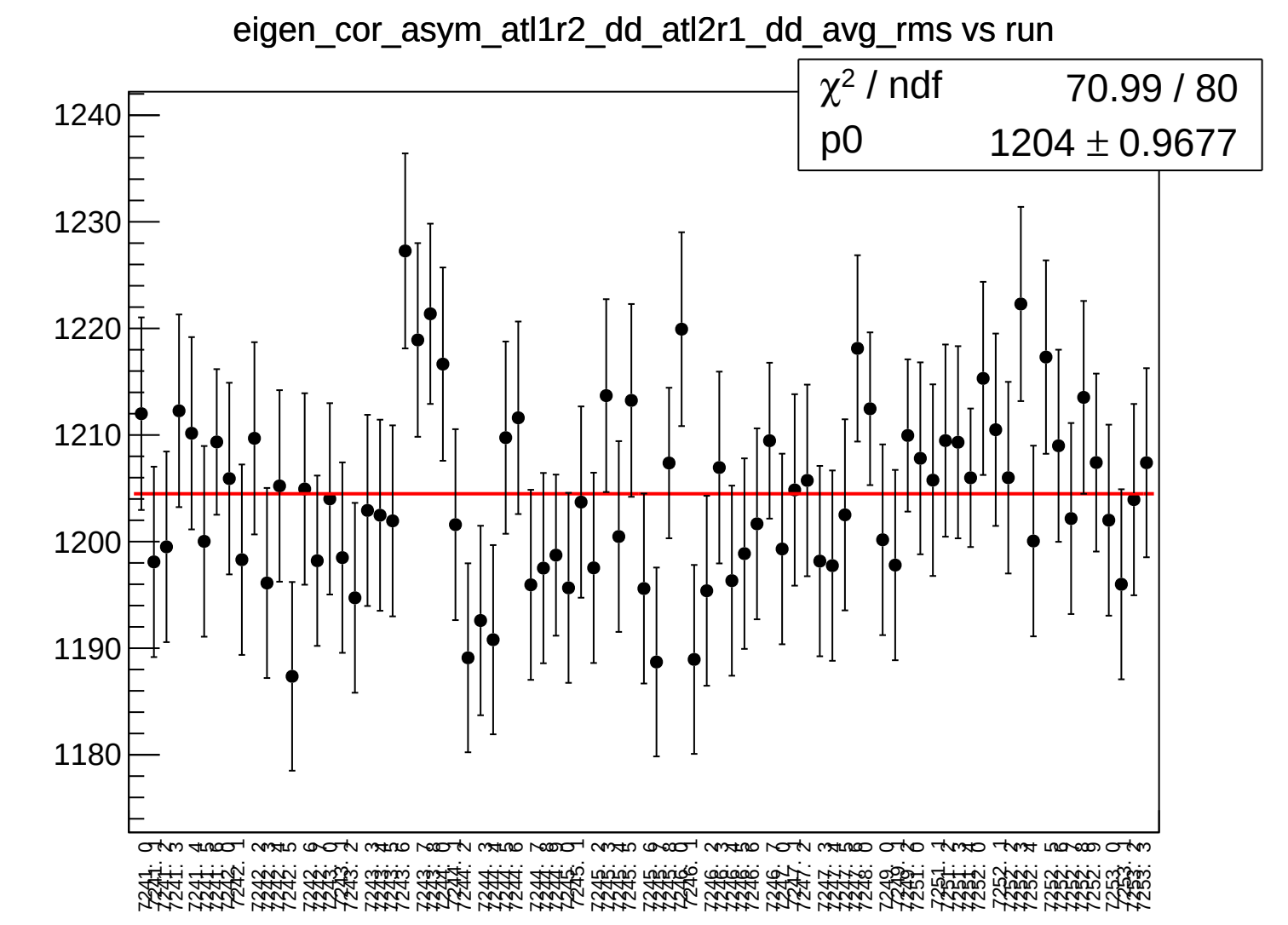

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 89.94 / 80
p0 −261.4 ± 199.8
pull
Entries 81
Mean 2986
Std Dev 0

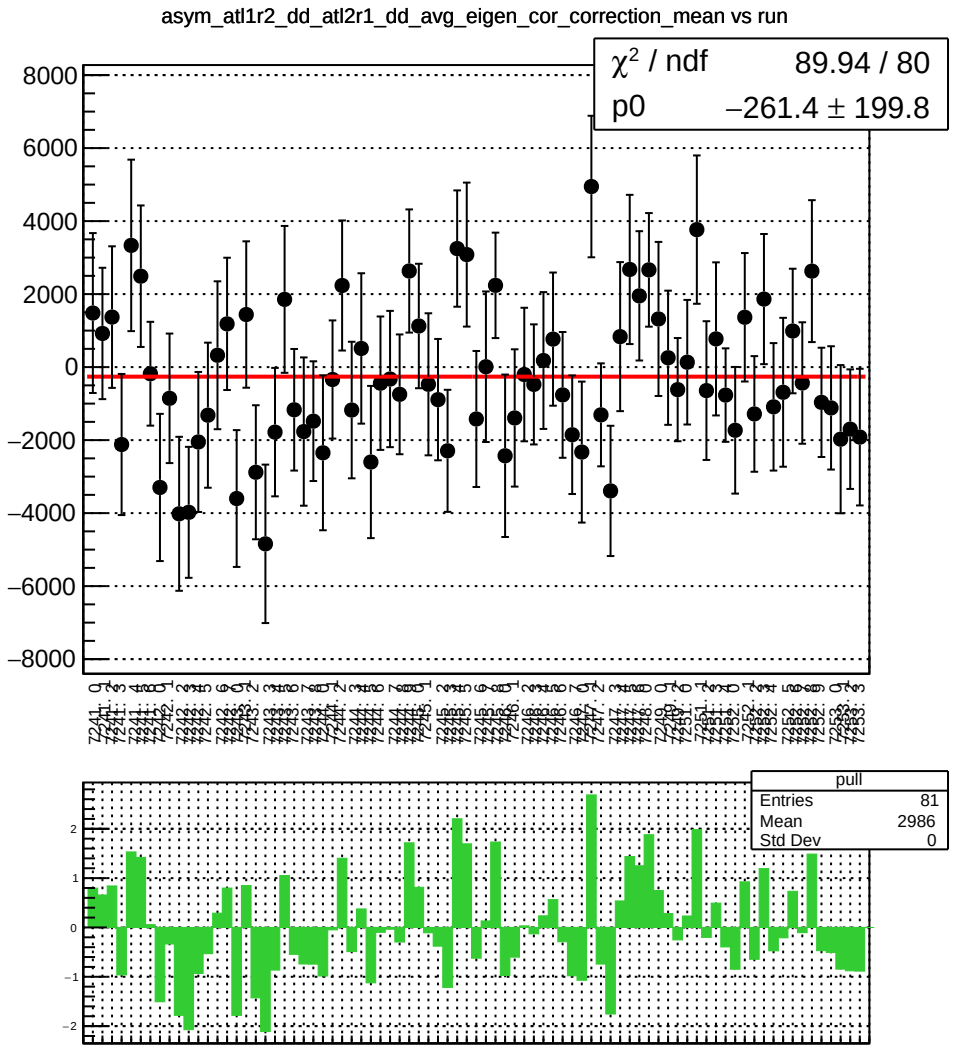

pull1D
Entries 81
Mean 0.0009432
Std Dev 1.054

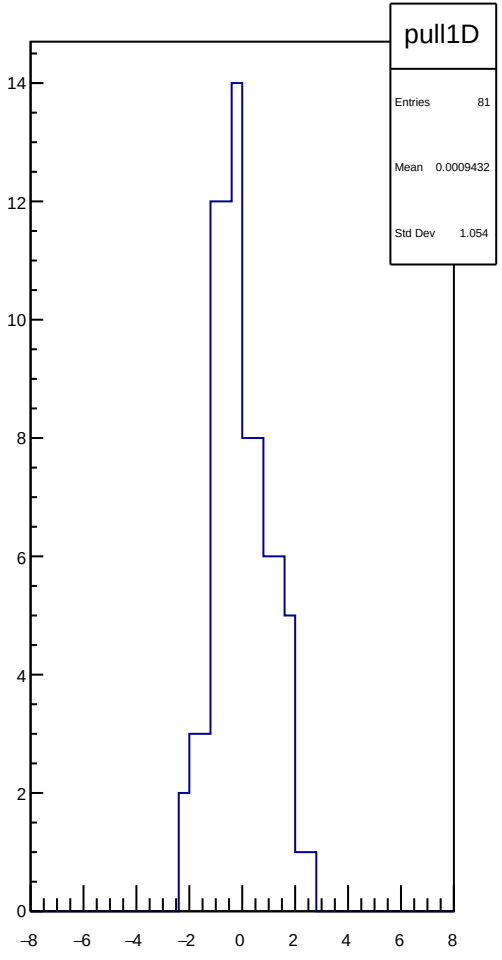

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 1.275e+04 / 80
p0 175.1 ± 0.1413
220
200
180
160
140

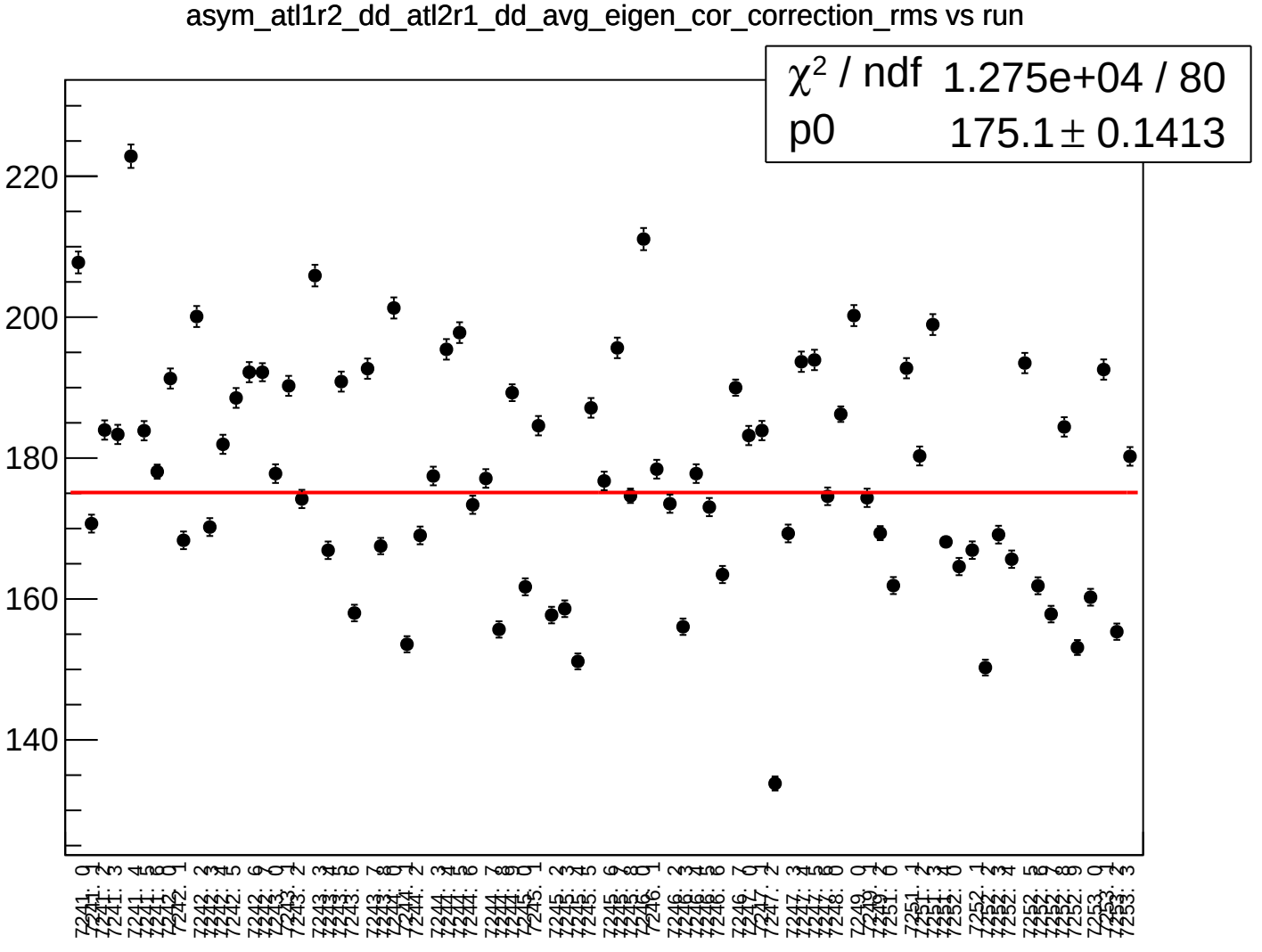

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 70.85 / 80
p0 −863.8 ± 1369
pull
Entries 81
Mean −640.1
Std Dev 0

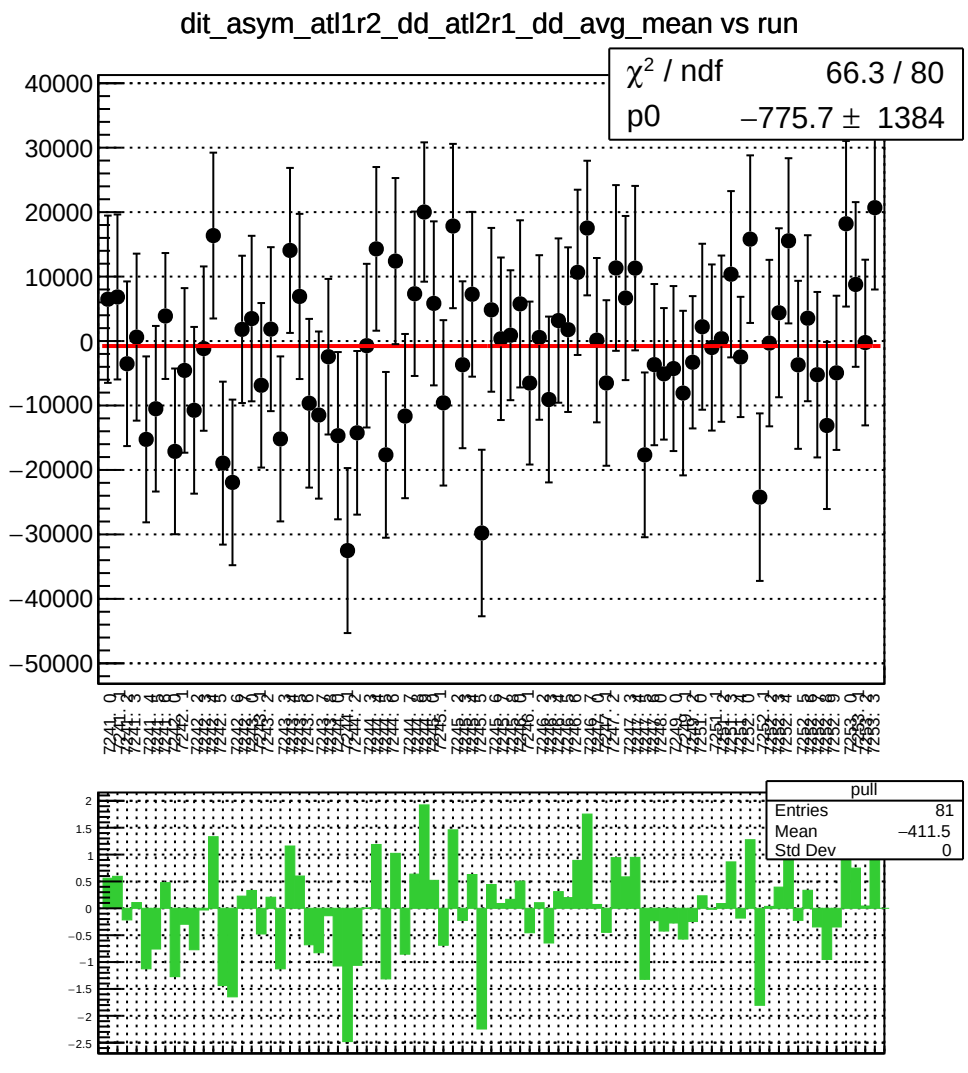

pull1D
Entries 81
Mean −0.005571
Std Dev 0.9352

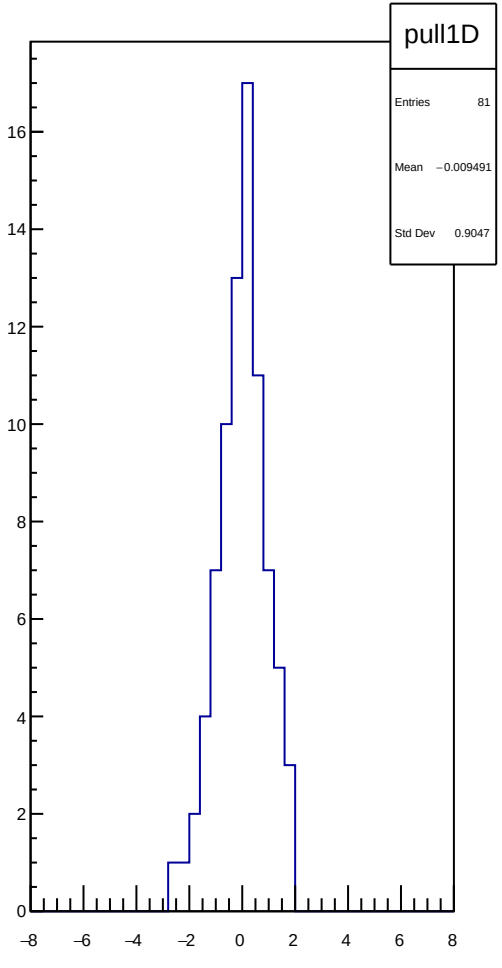

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 70.99 / 80
p0 1204 ± 0.9677
1240
1230
1220
1210
1200
1190
1180

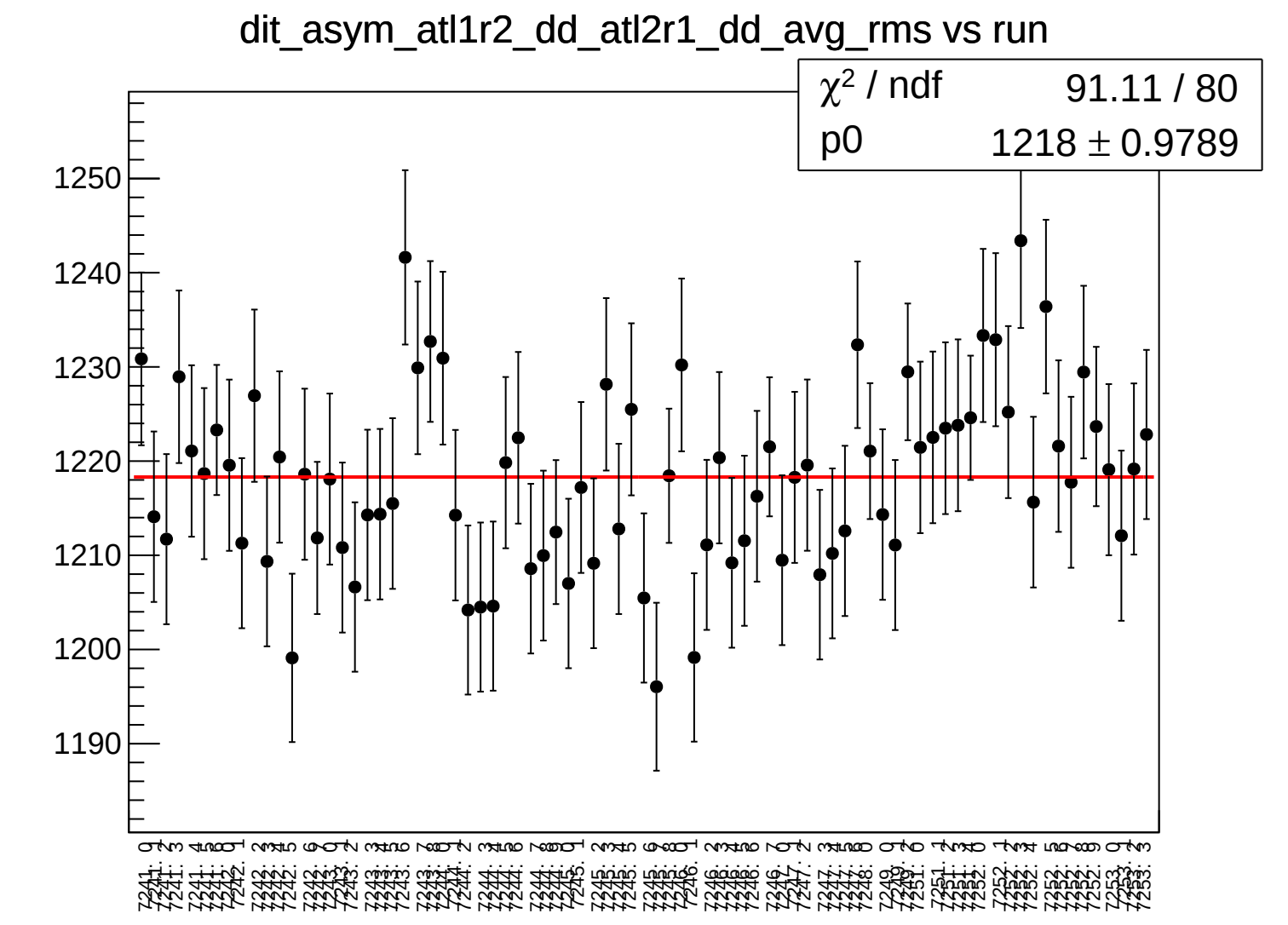

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 89.94 / 80
p0 −261.4 ± 199.8
pull
Entries 81
Mean 2986
Std Dev 0

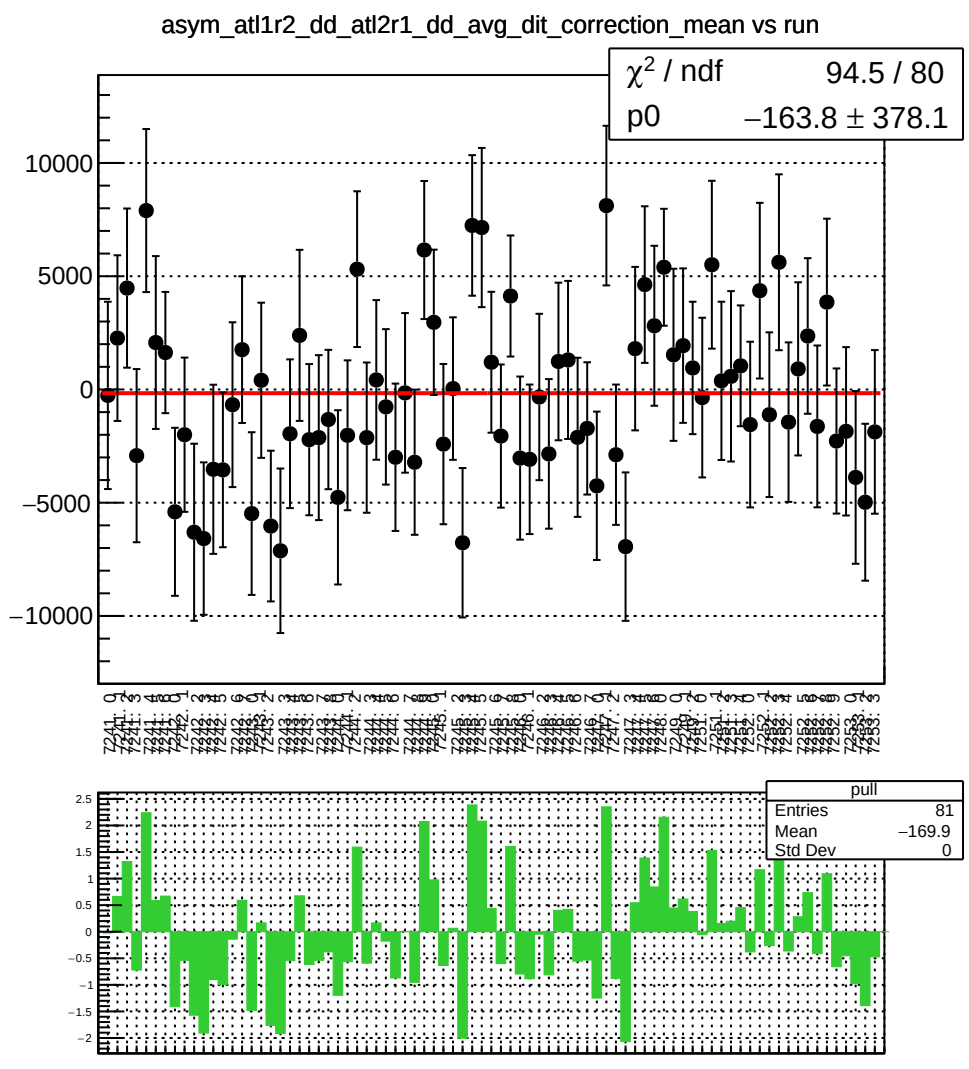

pull1D
Entries 81
Mean 0.0009432
Std Dev 1.054

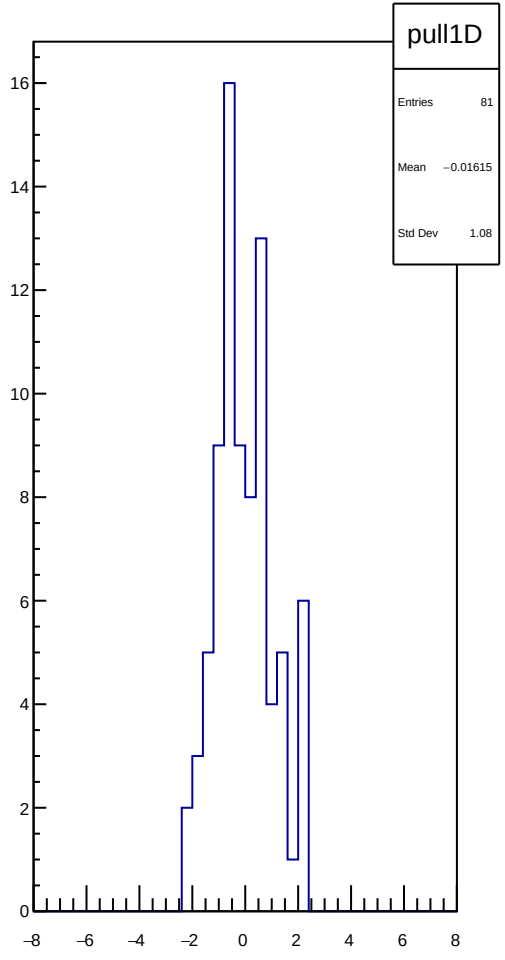

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.275e+04 / 80
p0 175.1 ± 0.1413
220
200
180
160
140

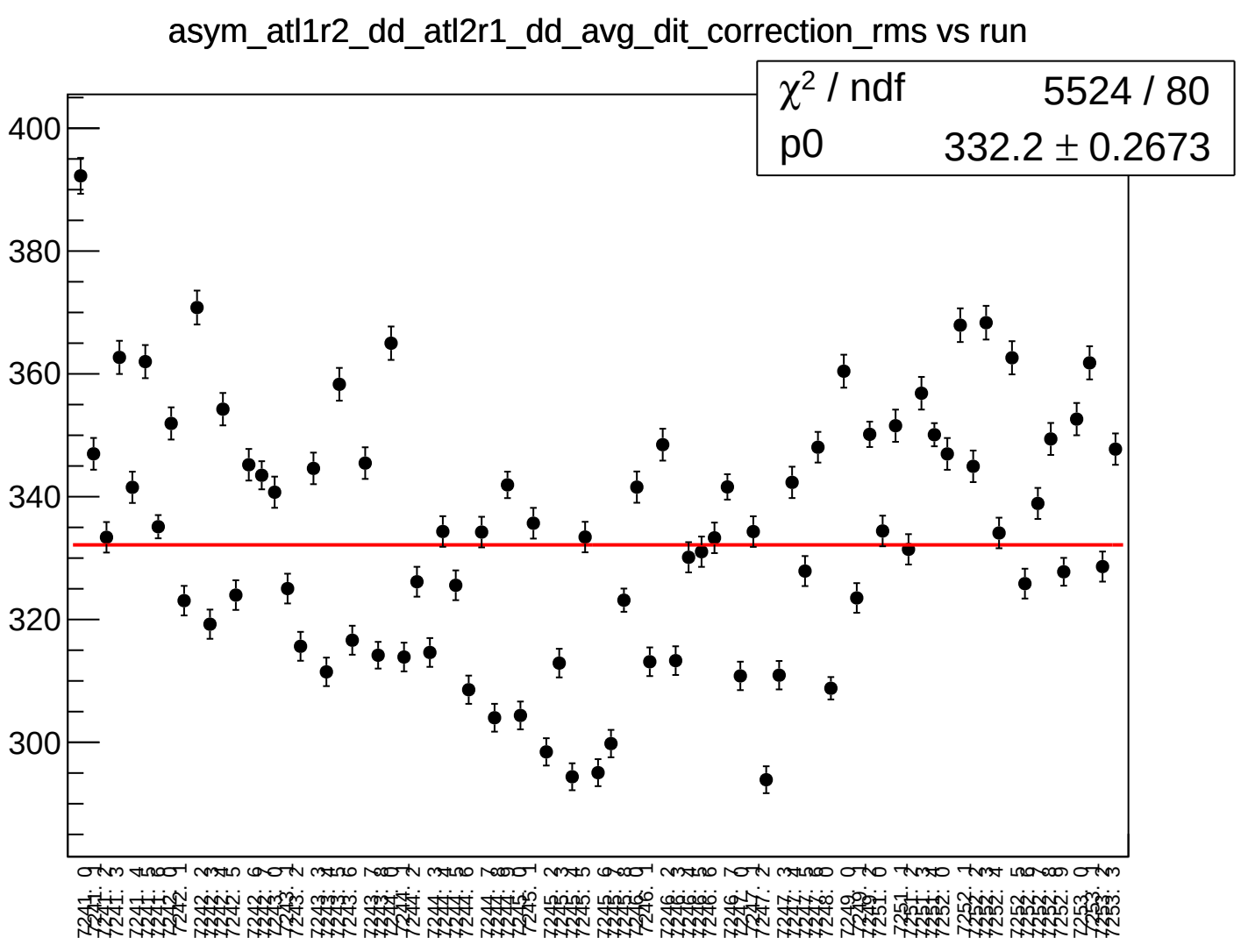

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 66.3 / 80
p0 −775.7 ± 1384
pull
Entries 81
Mean −411.5
Std Dev 0

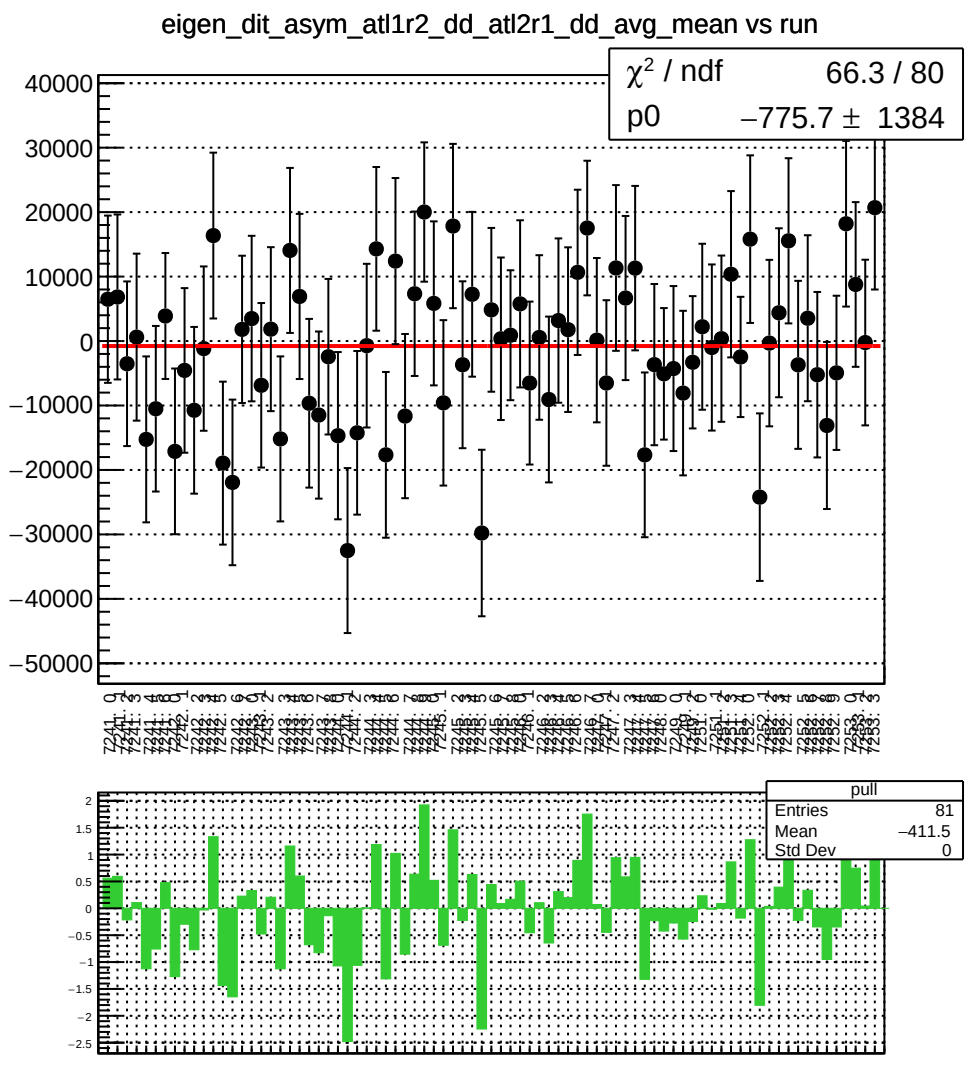

pull1D
Entries 81
Mean −0.009491
Std Dev 0.9047

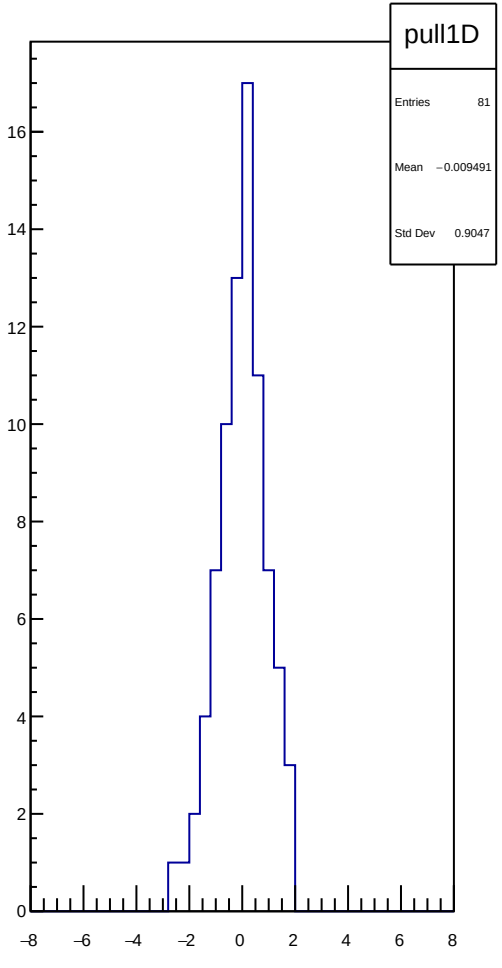

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 91.11 / 80
p0 1218 ± 0.9789
1250
1240
1230
1220
1210
1200
1190

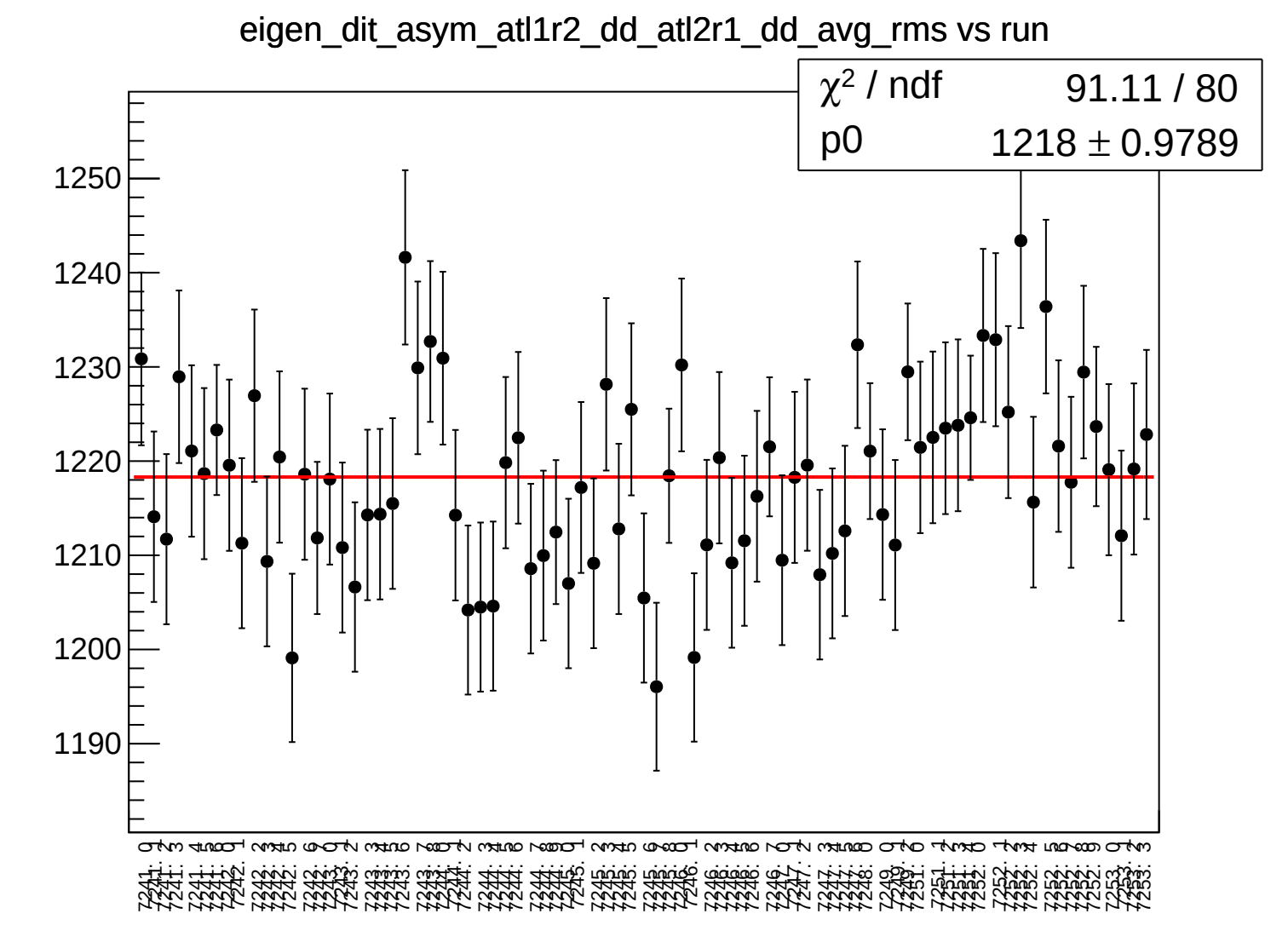

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 94.5 / 80
p0 −163.8 ± 378.1
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −169.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

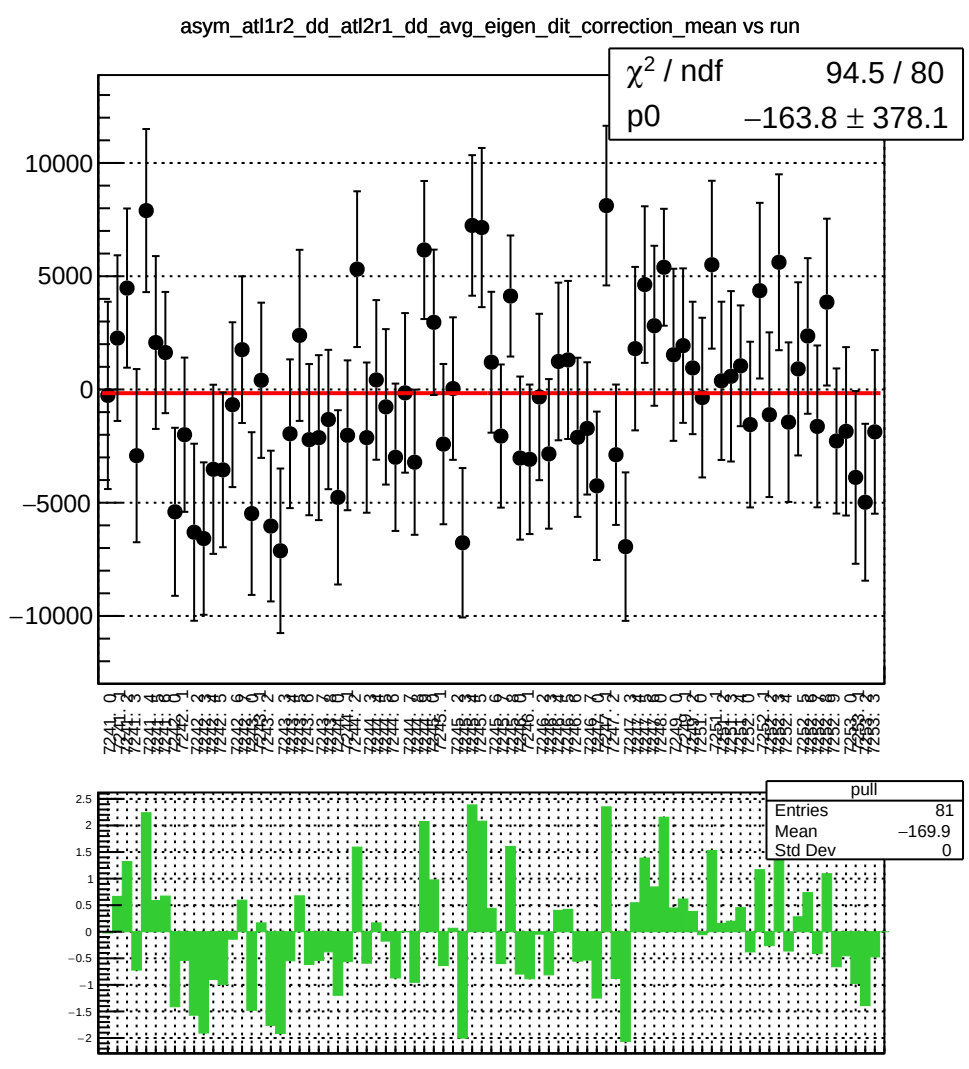

pull1D
Entries 81
Mean −0.01615
Std Dev 1.08
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

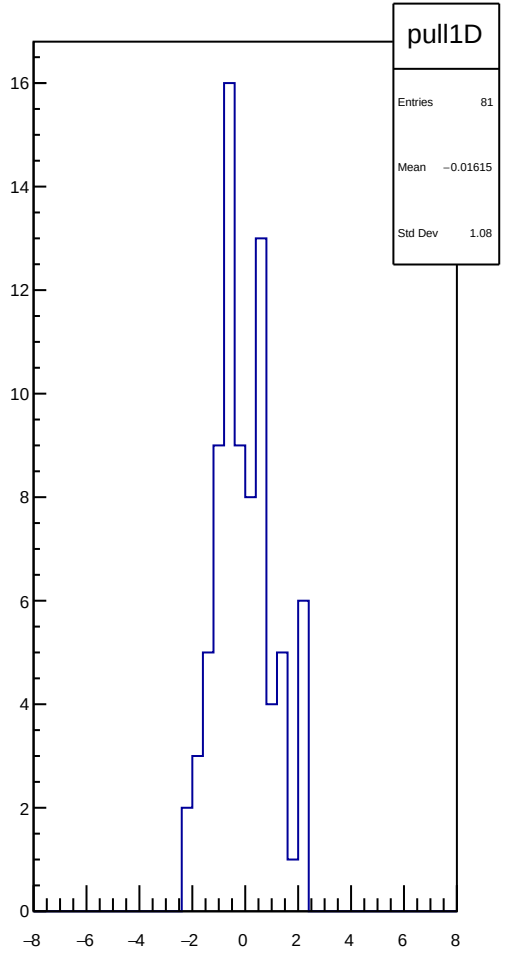

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 5524 / 80
p0 332.2 ± 0.2673
400
380
360
340
320
300

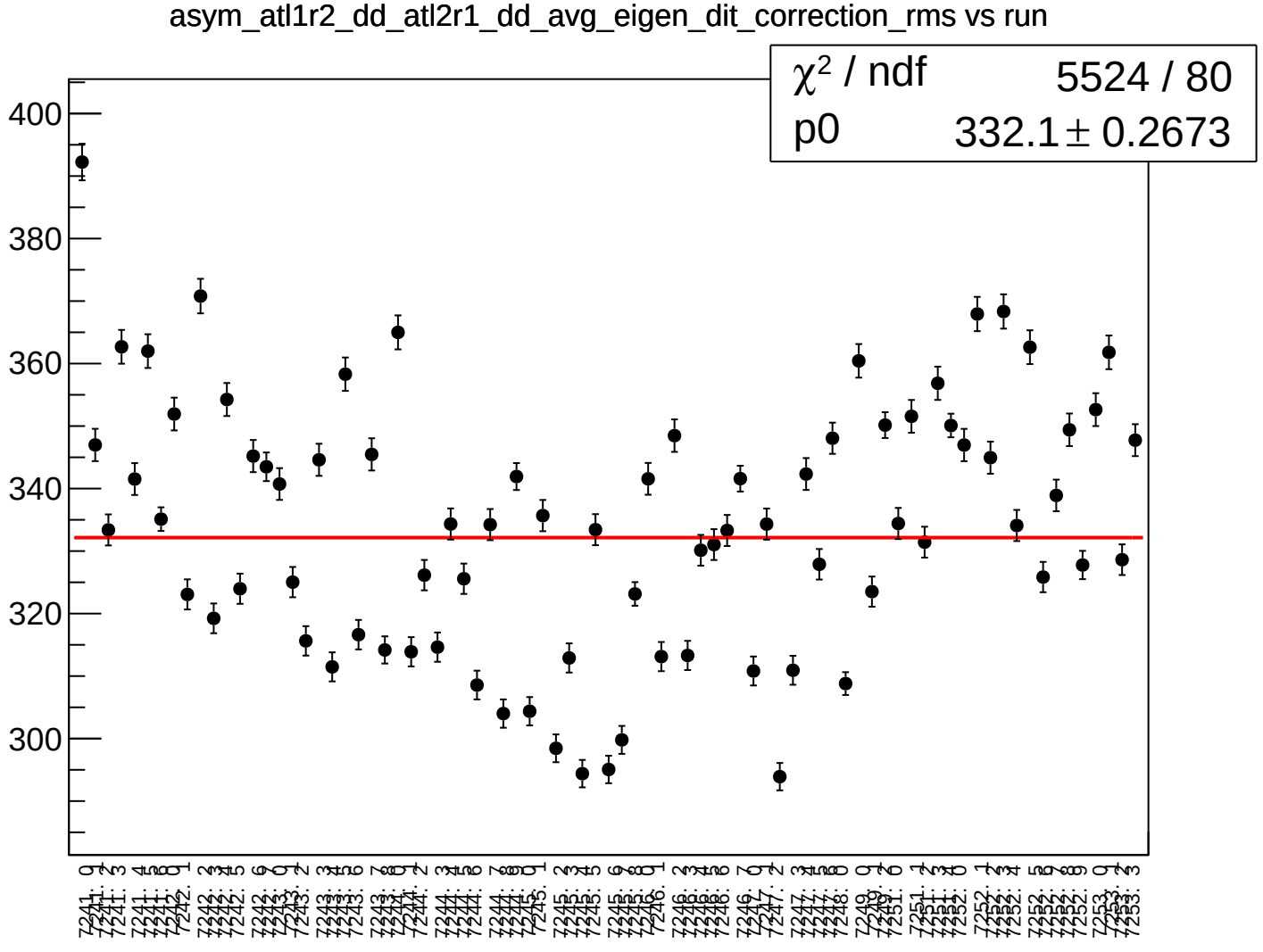

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 66.3 / 80
p0 −775.7 ± 1384
pull
Entries 81
Mean −411.5
Std Dev 0

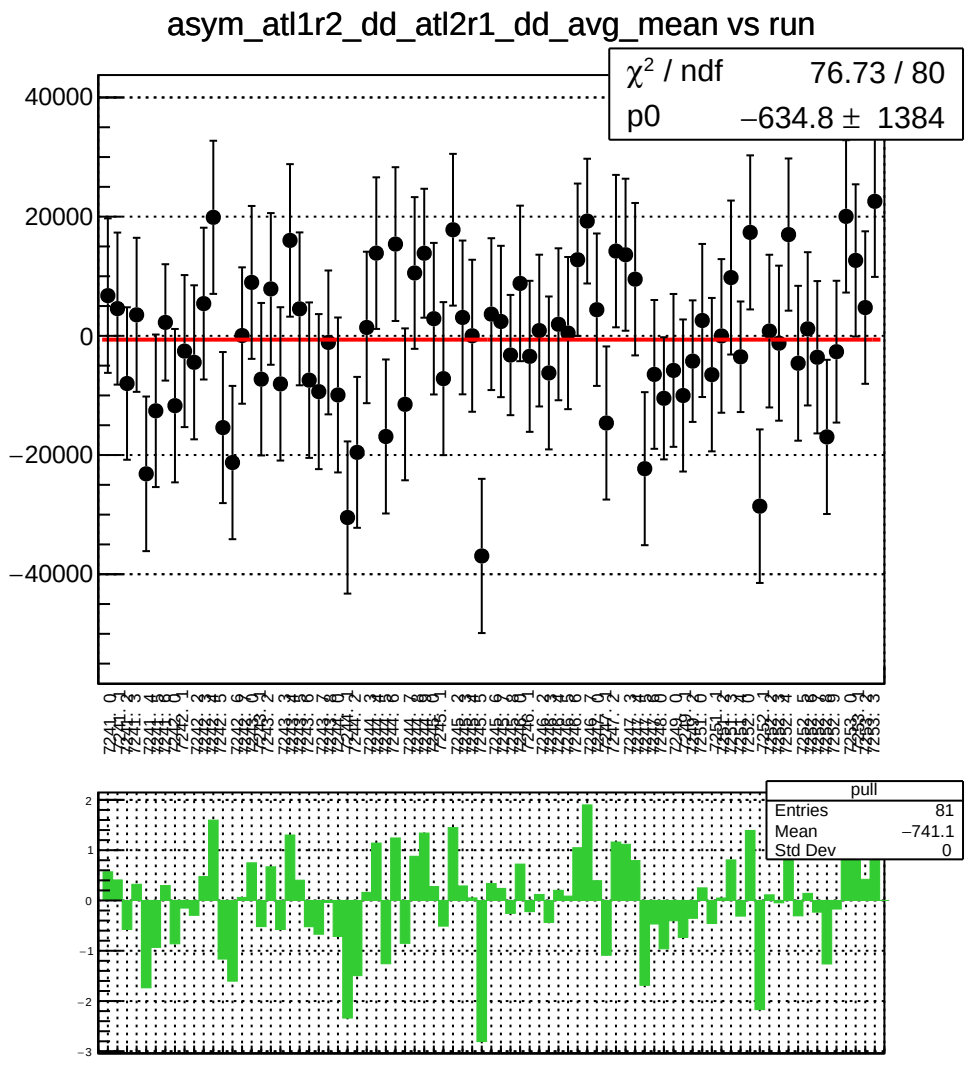

pull1D
Entries 81
Mean −0.009491
Std Dev 0.9047

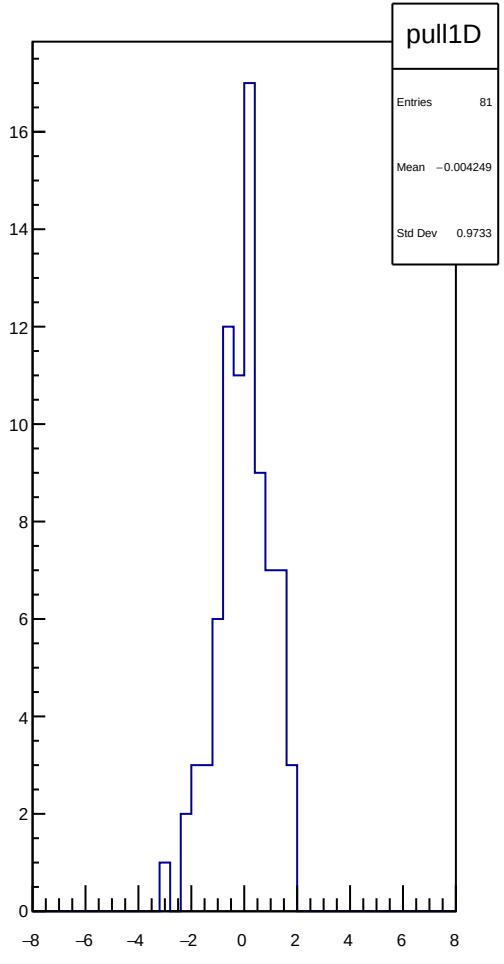

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 91.11 / 80
p0 1218 ± 0.9789
1250
1240
1230
1220
1210
1200
1190

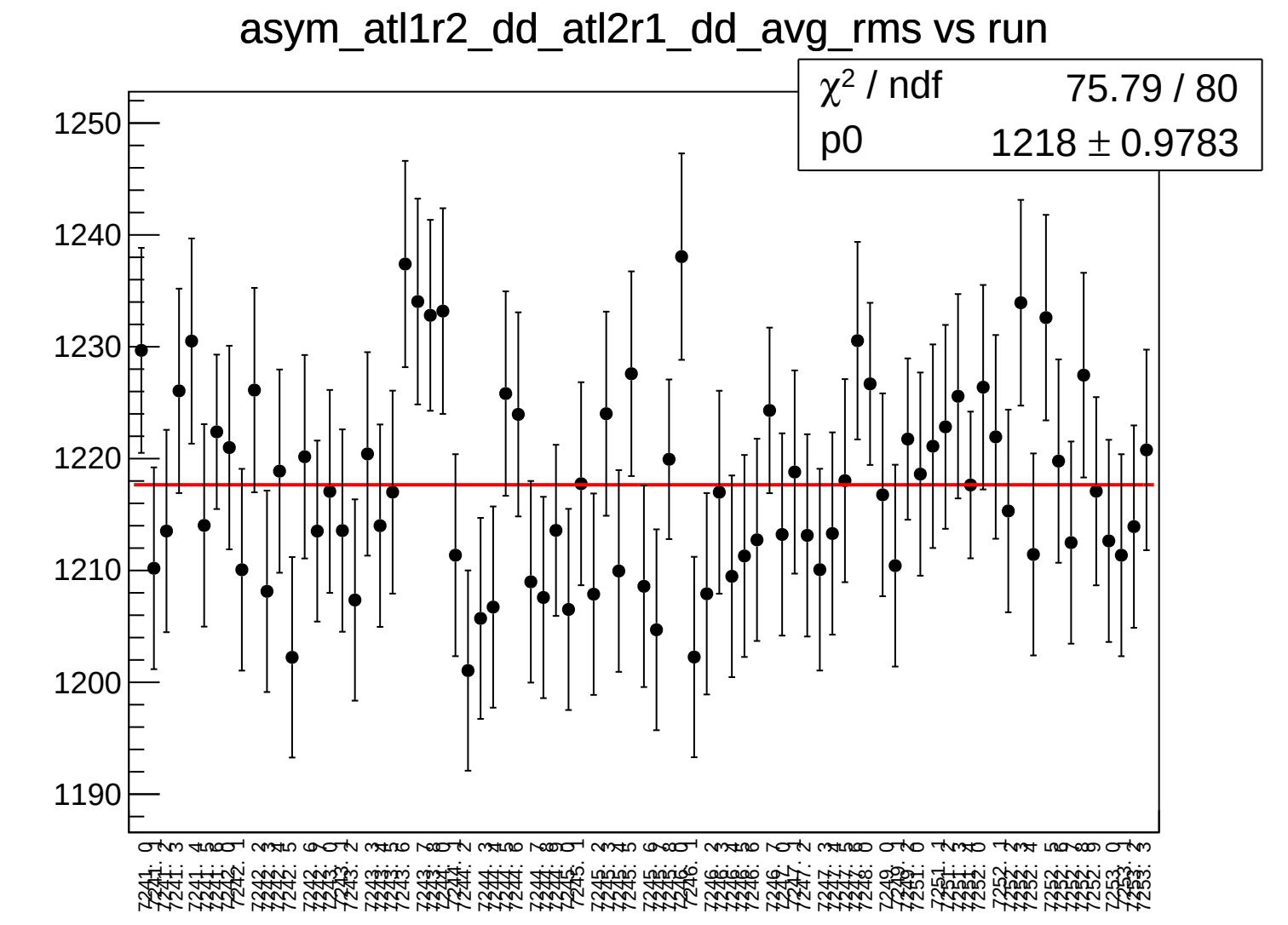

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 94.5 / 80
p0 −163.8 ± 378.1
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −169.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

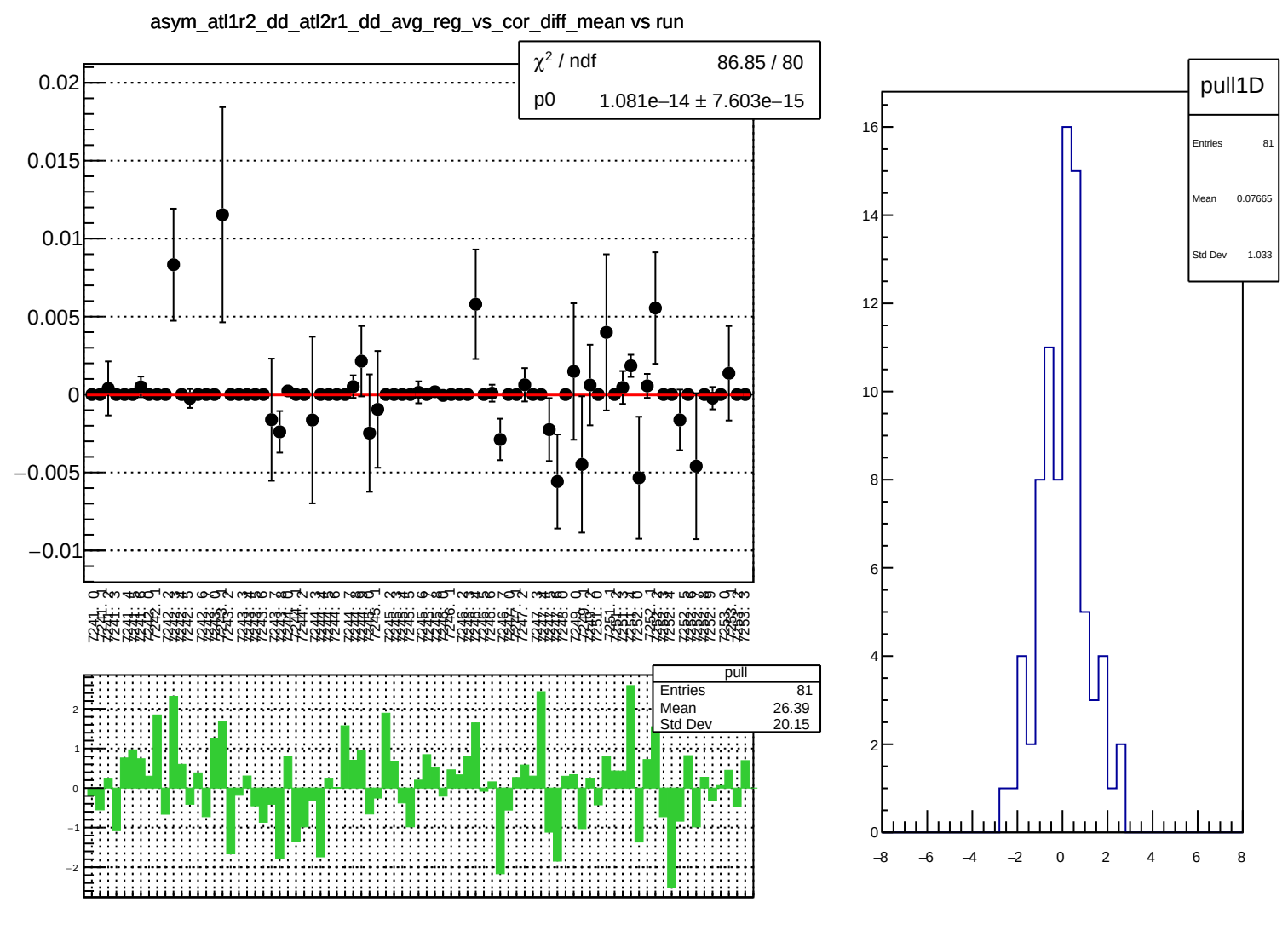

pull1D
Entries 81
Mean −0.01615
Std Dev 1.08
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

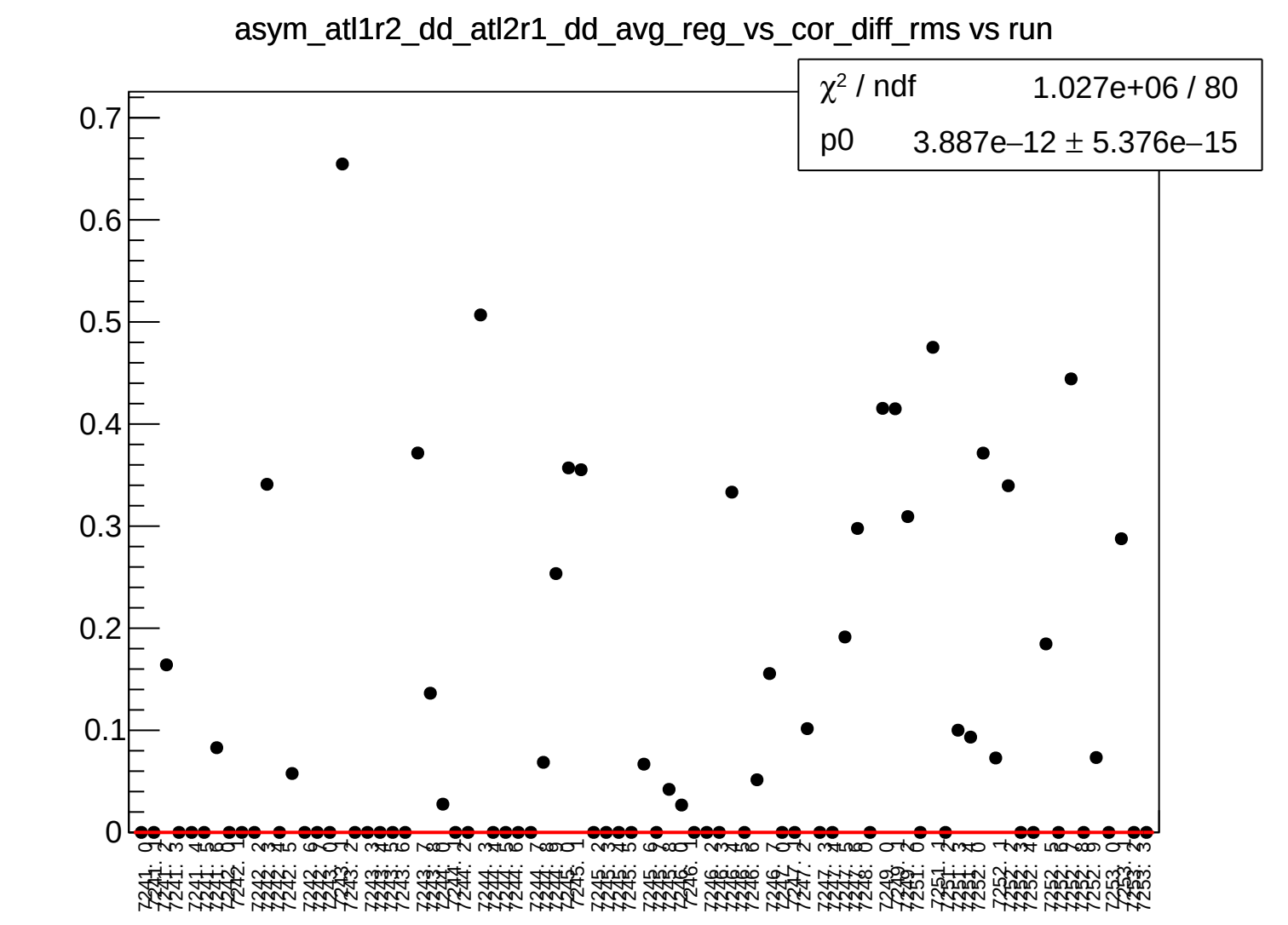

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 5524 / 80
p0 332.1 ± 0.2673
400
380
360
340
320
300

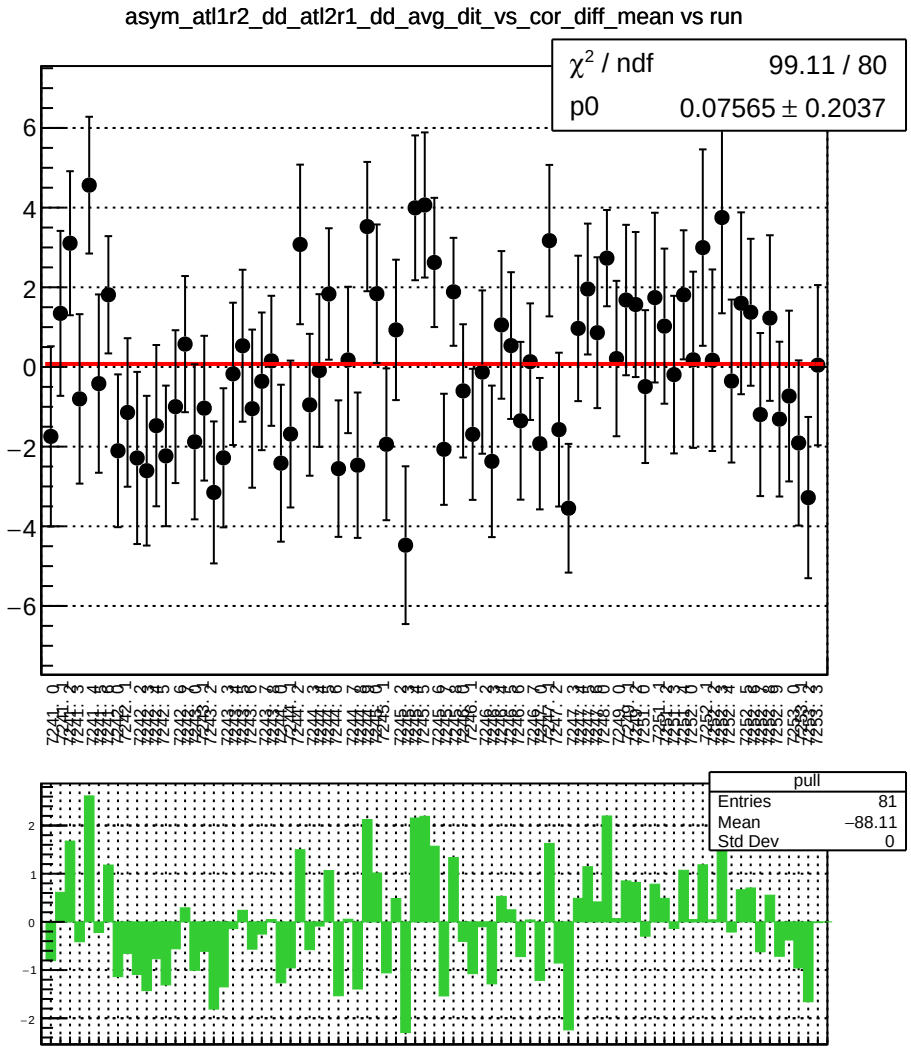

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 76.73 / 80
p0 −634.8 ± 1384
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −741.1
Std Dev 0
2
1
0
−1
−2
−3

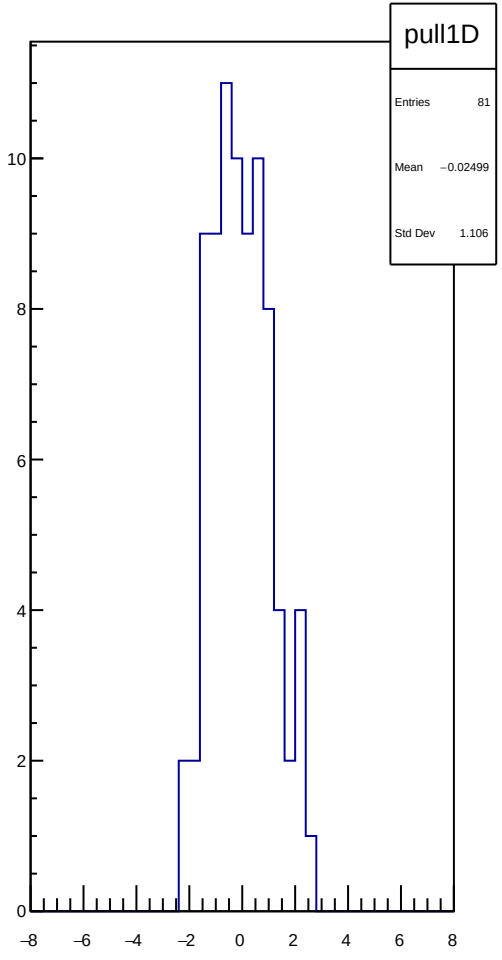

pull1D
Entries 81
Mean −0.004249
Std Dev 0.9733
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

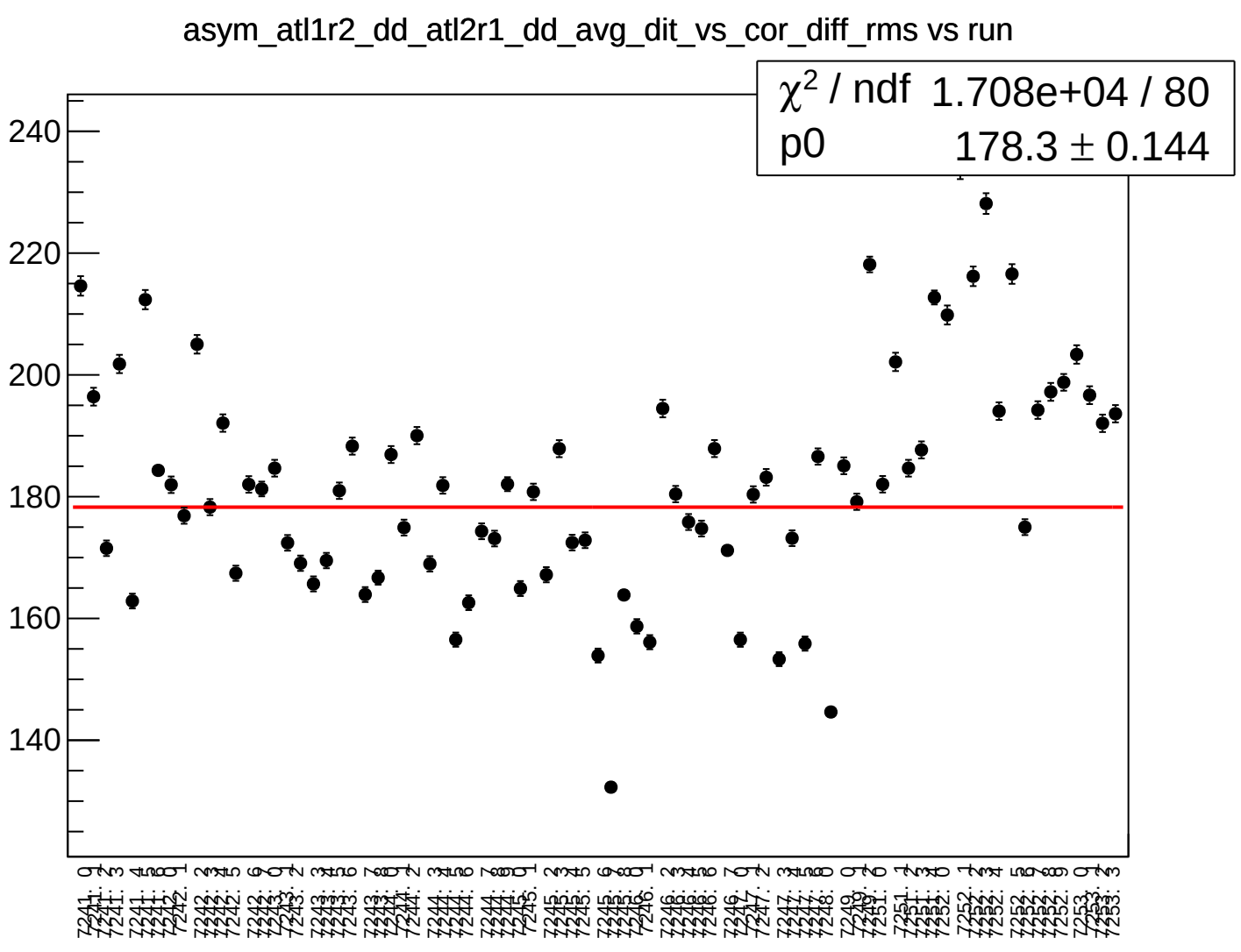

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 75.79 / 80
p0 1218 ± 0.9783
1250
1240
1230
1220
1210
1200
1190

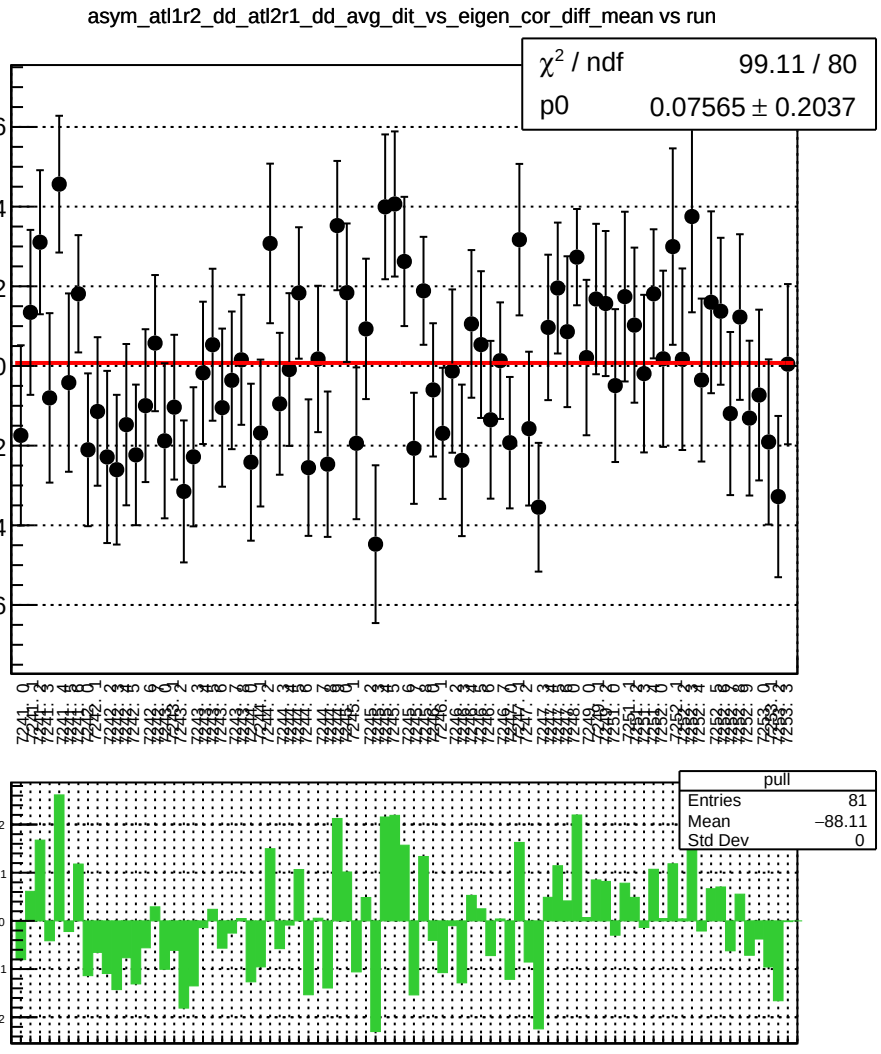

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 86.85 / 80
p0 1.081e−14 ± 7.603e−15
0.02
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 81
Mean 26.39
Std Dev 20.15
pull1D
Entries 81
Mean 0.07665
Std Dev 1.033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

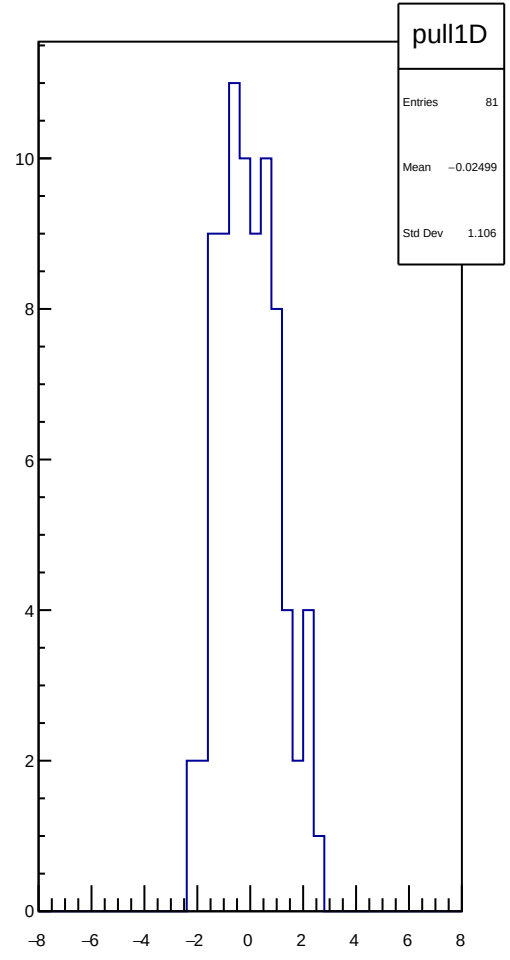

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.027e+06 / 80
p0 3.887e−12 ± 5.376e−15
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

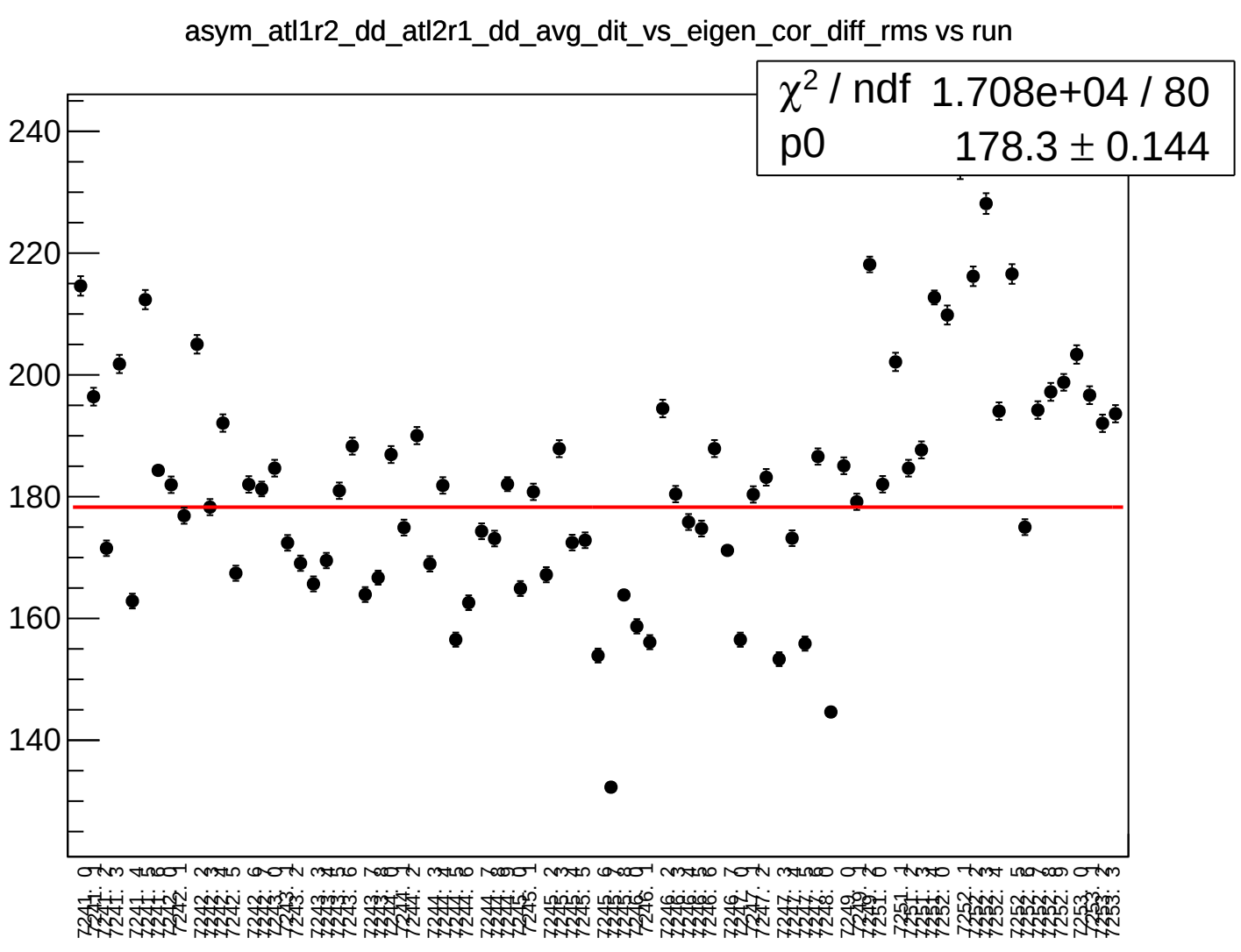

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 99.11 / 80
p0 0.07565 ± 0.2037
pull
Entries 81
Mean −88.11
Std Dev 0

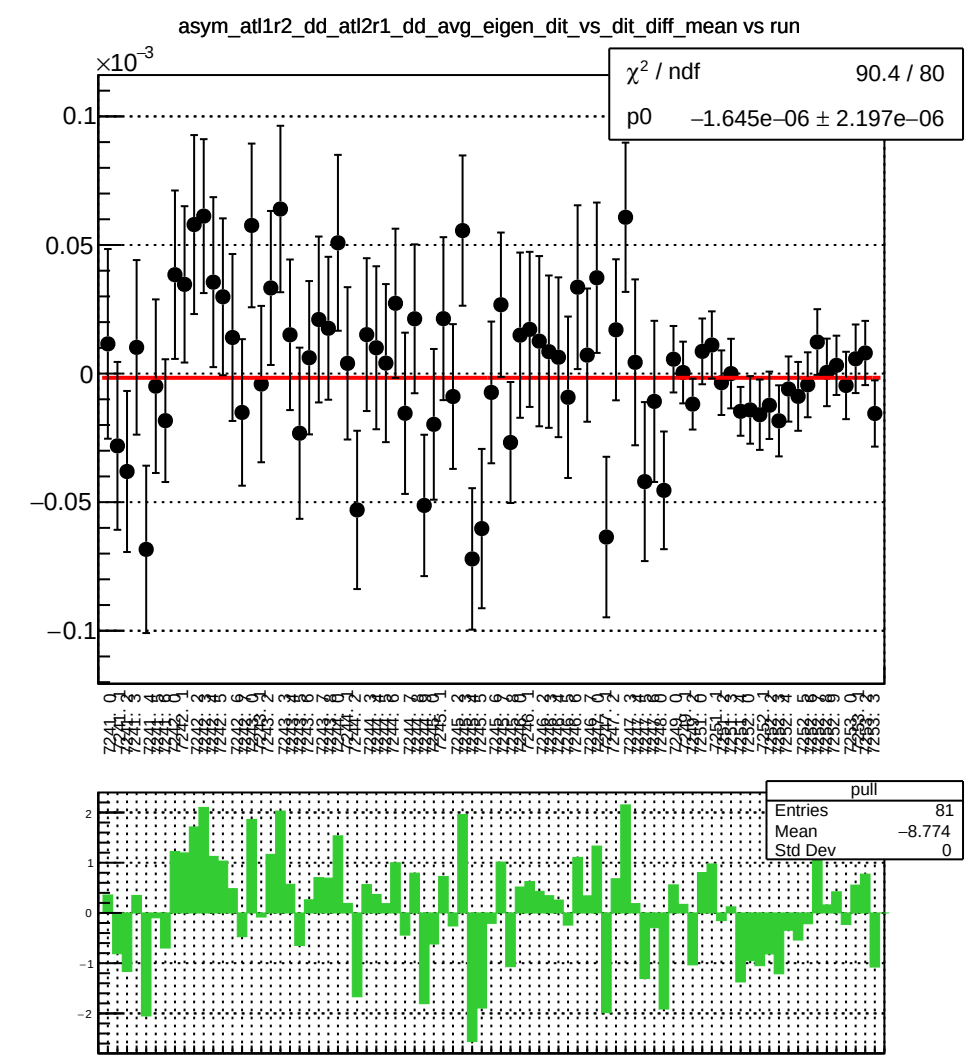

pull1D
Entries 81
Mean −0.02499
Std Dev 1.106

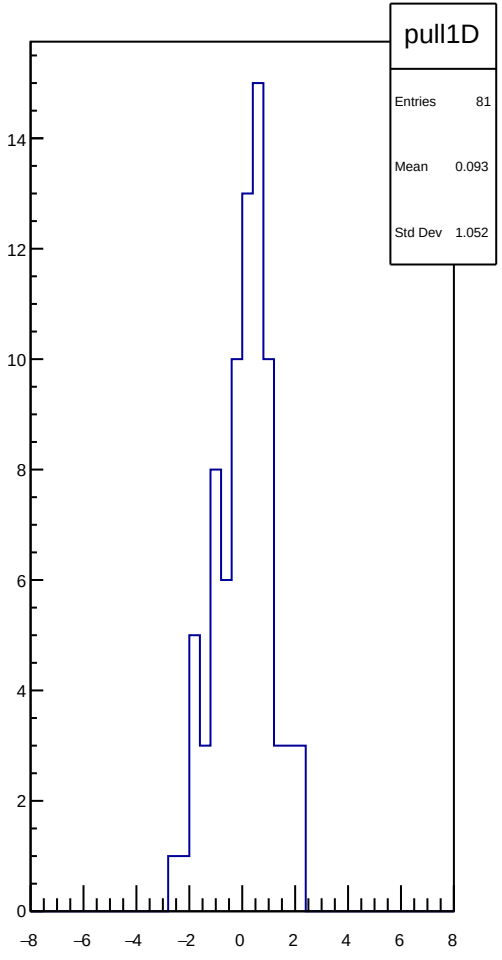

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.708e+04 / 80
p0 178.3 ± 0.144
240
220
200
180
160
140

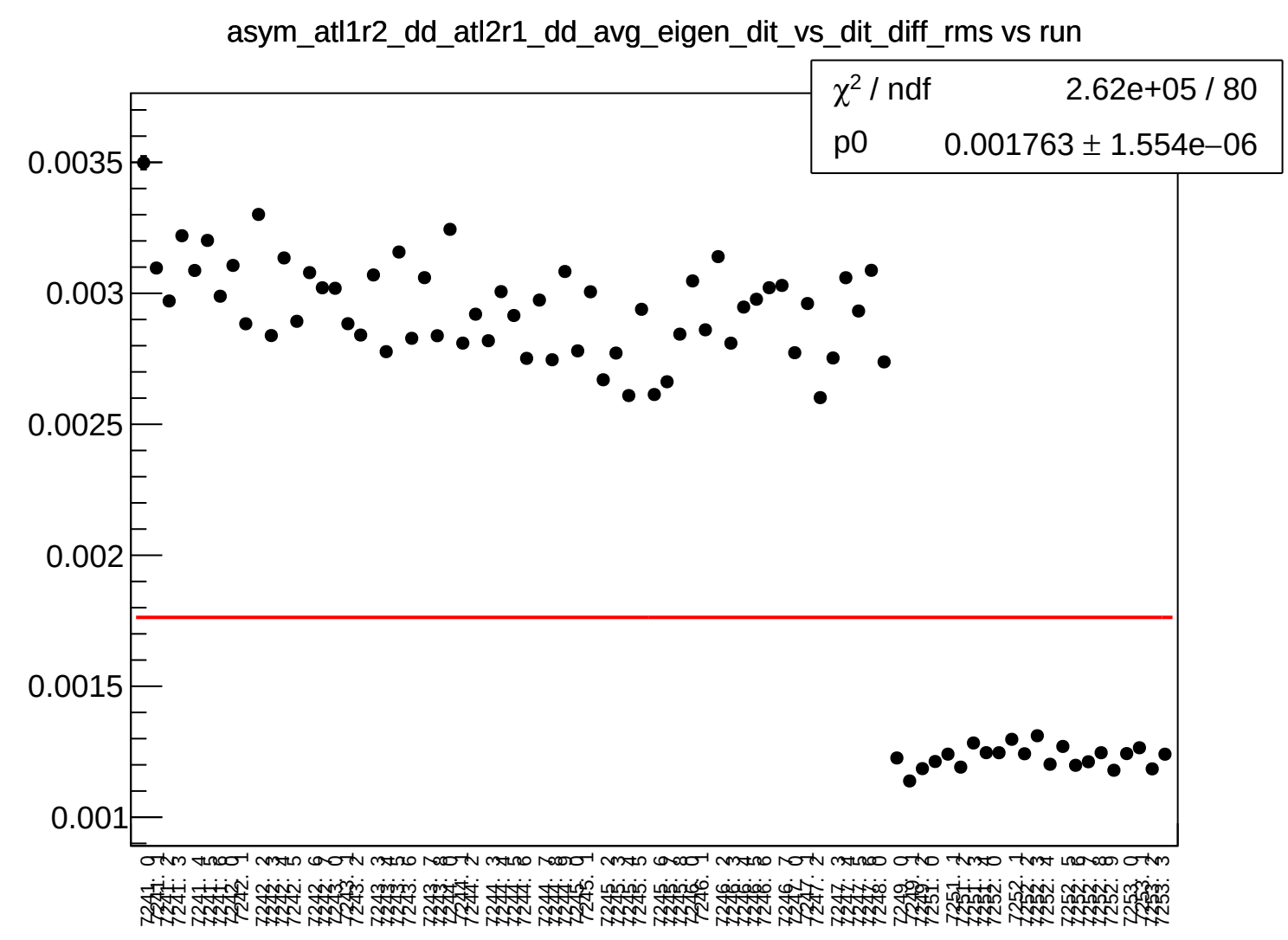

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.11 / 80
p0 0.07565 ± 0.2037
pull
Entries 81
Mean −88.11
Std Dev 0

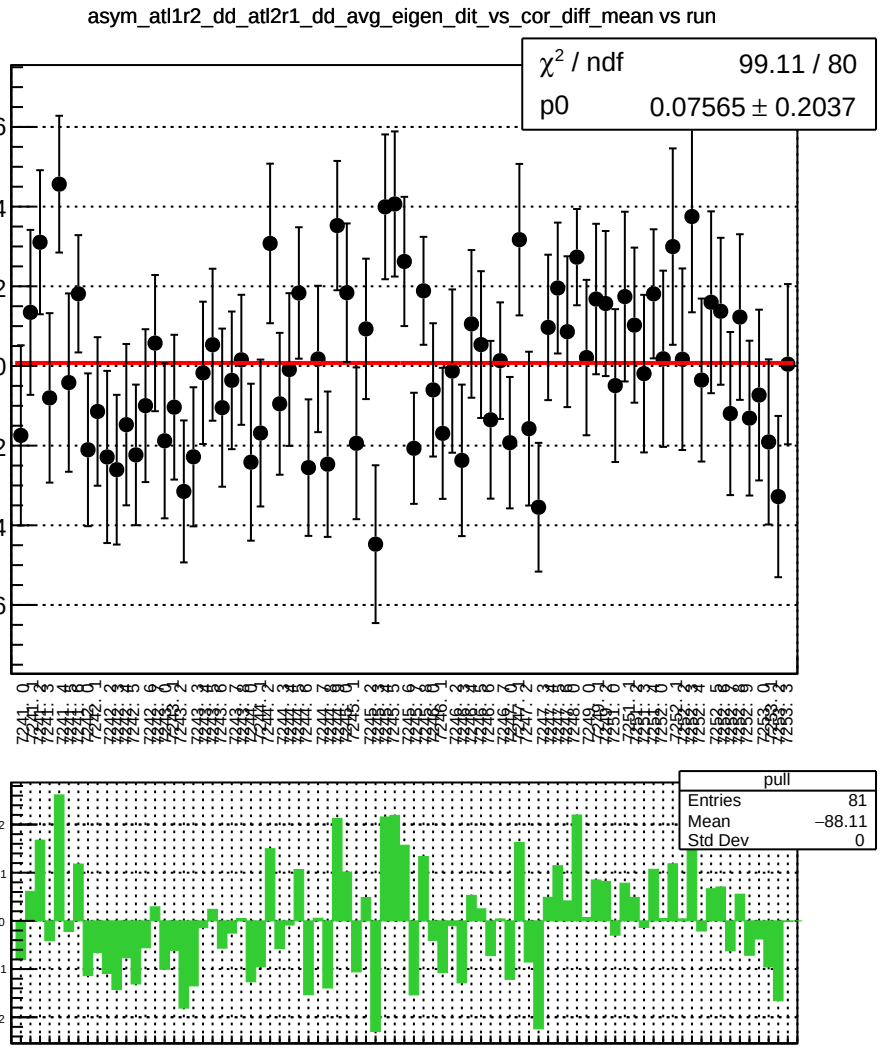

pull1D
Entries 81
Mean −0.02499
Std Dev 1.106

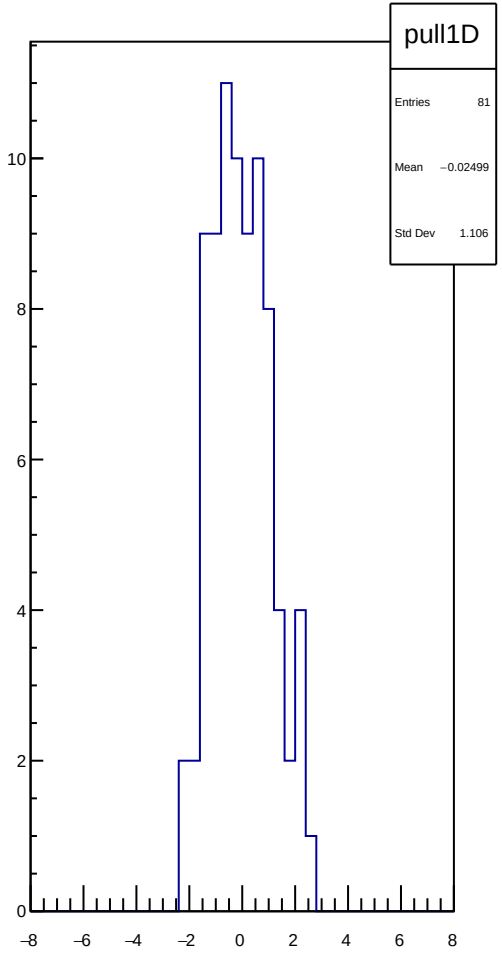

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.708e+04 / 80
p0 178.3 ± 0.144
240
220
200
180
160
140

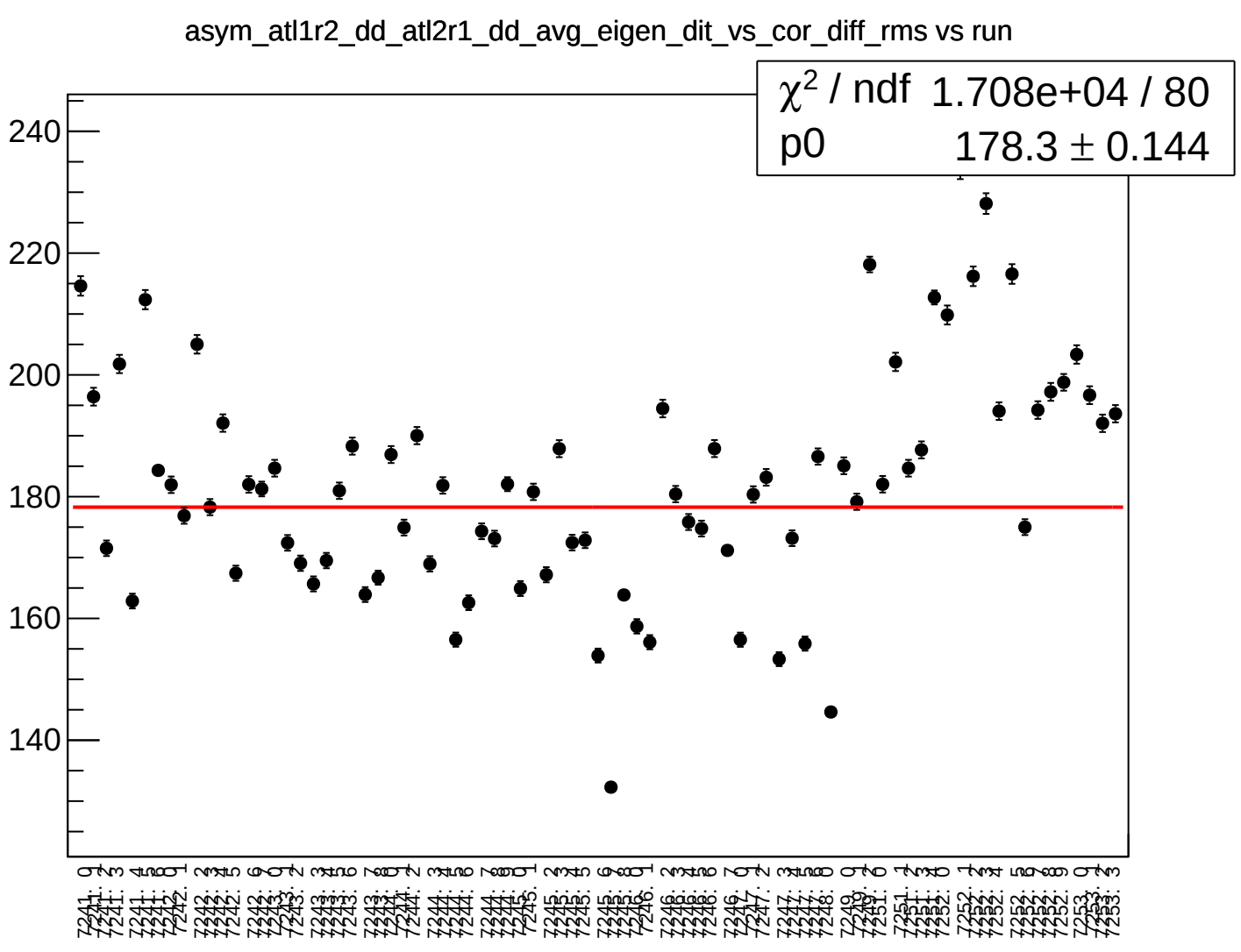

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.4 / 80
p0 −1.645e−06 ± 2.197e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 81
Mean −8.774
Std Dev 0
2
1
0
−1
−2

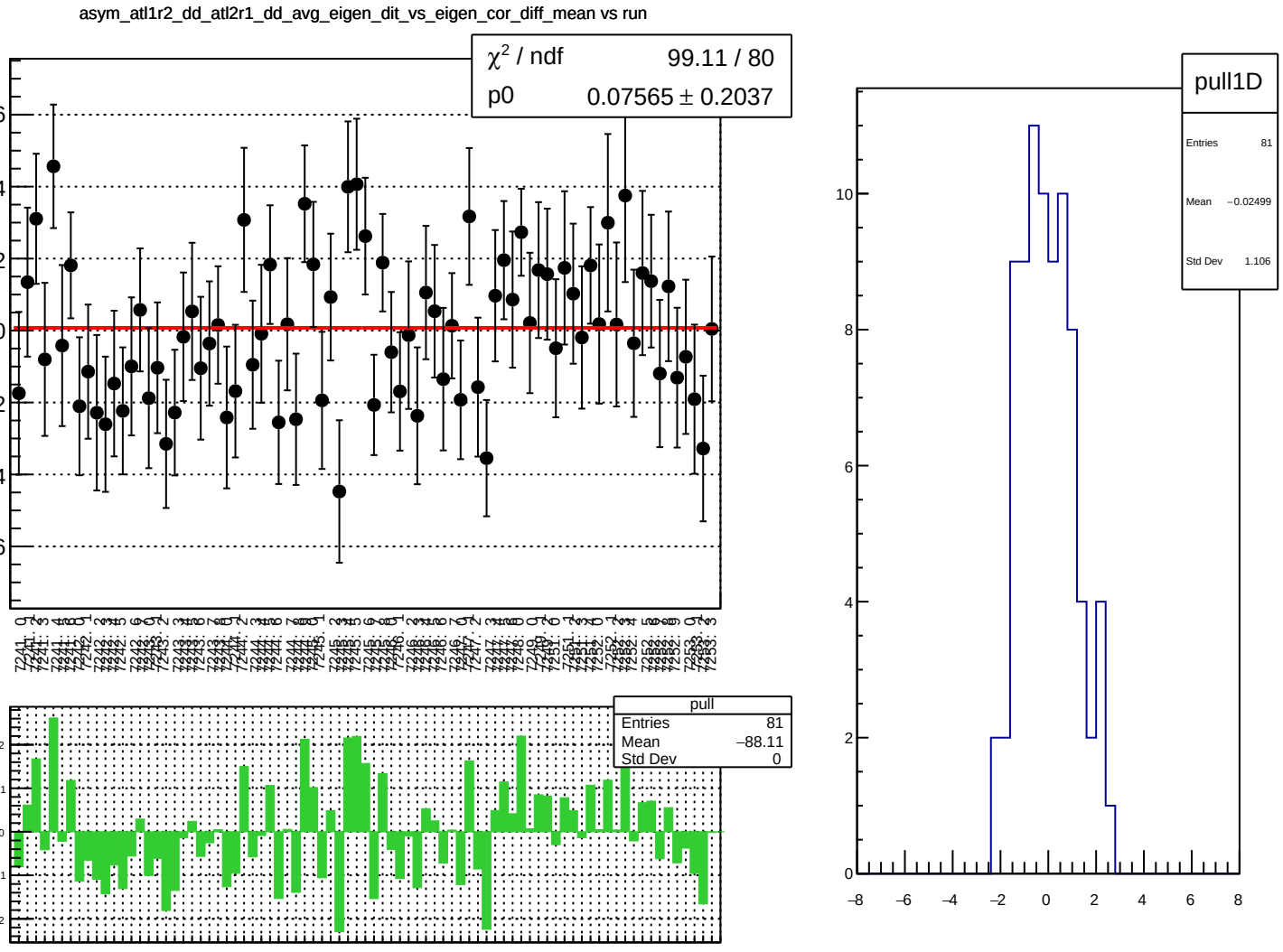

pull1D
Entries 81
Mean 0.093
Std Dev 1.052
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

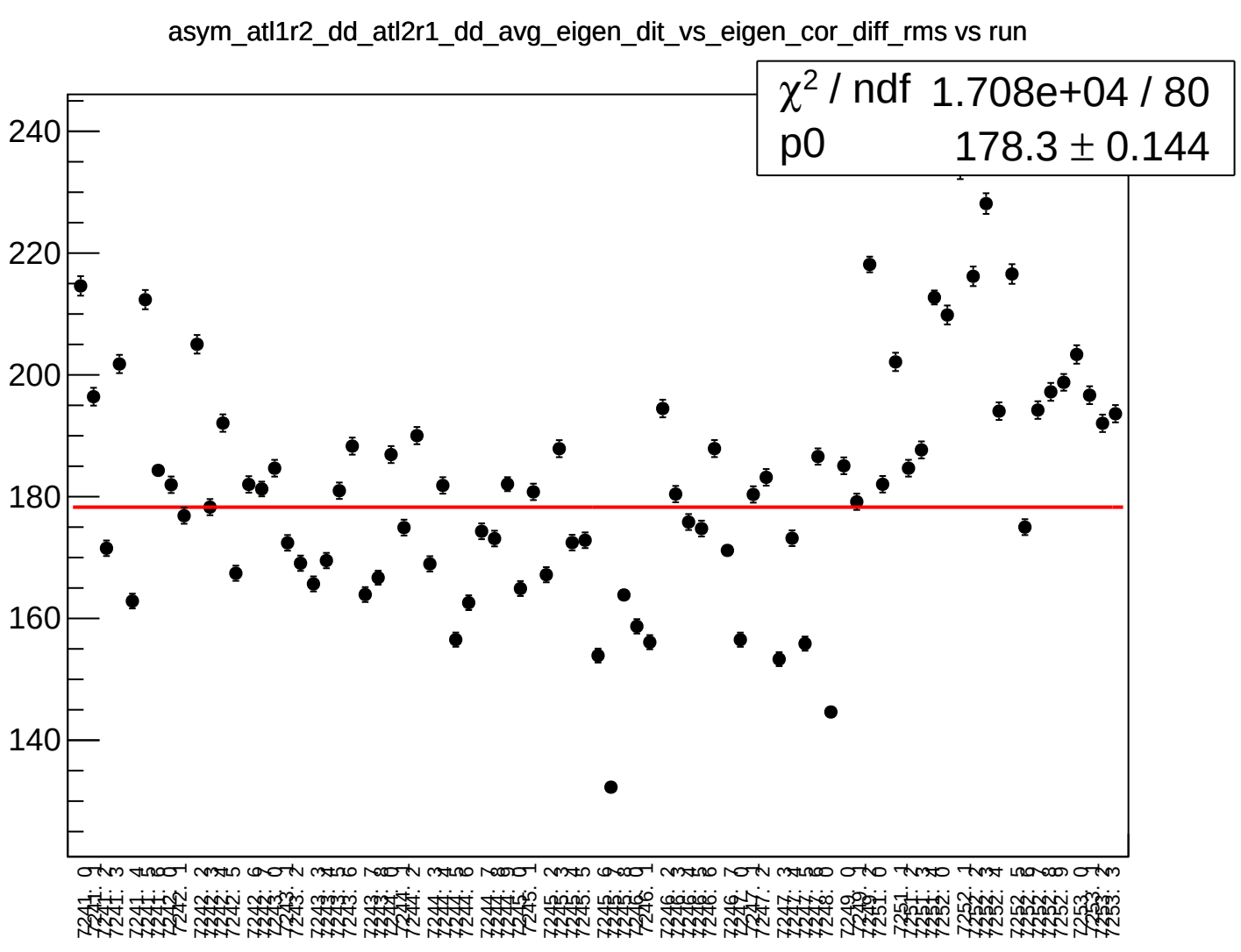

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.62e+05 / 80
p0 0.001763 ± 1.554e−06
0.0035
0.003
0.0025
0.002
0.0015
0.001

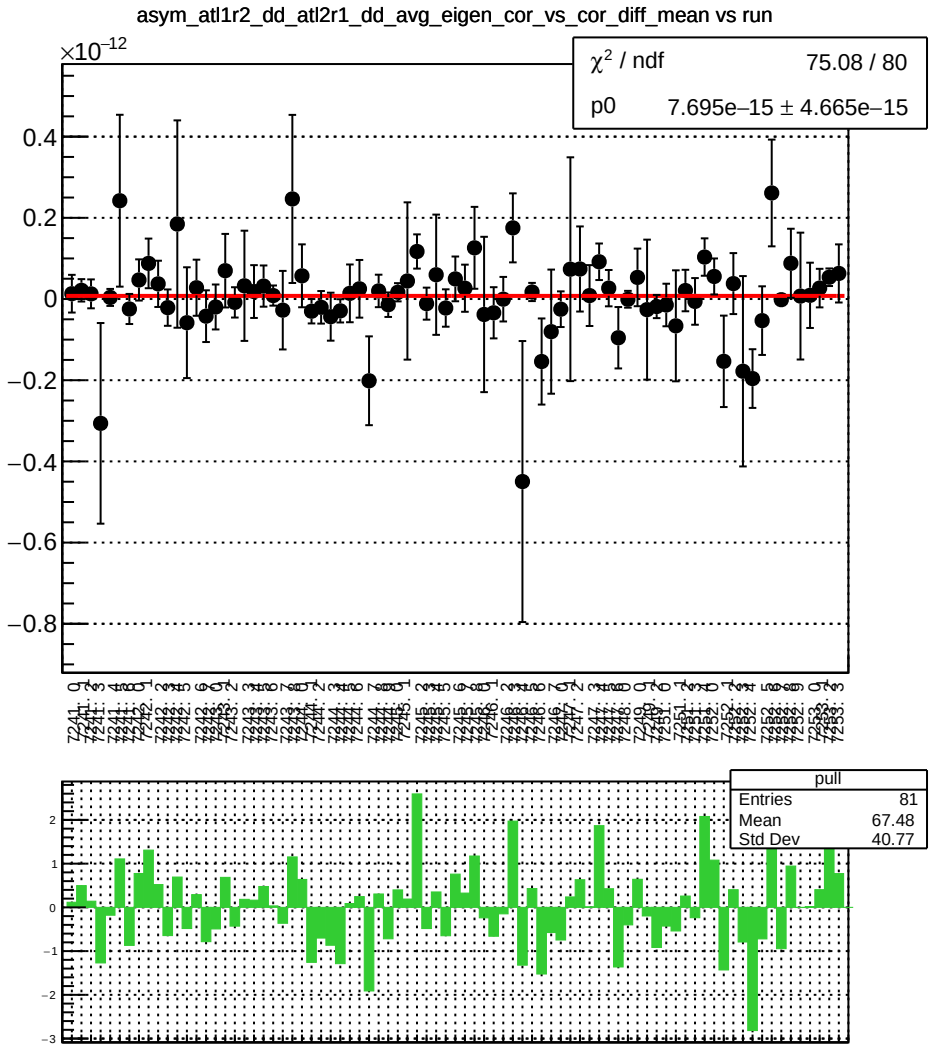

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.11 / 80
p0 0.07565 ± 0.2037
pull
Entries 81
Mean −88.11
Std Dev 0

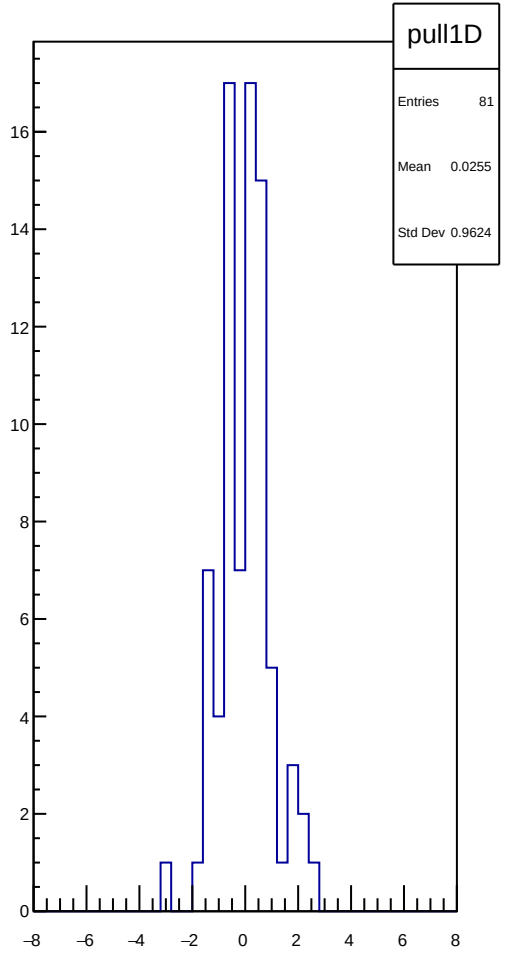

pull1D
Entries 81
Mean −0.02499
Std Dev 1.106

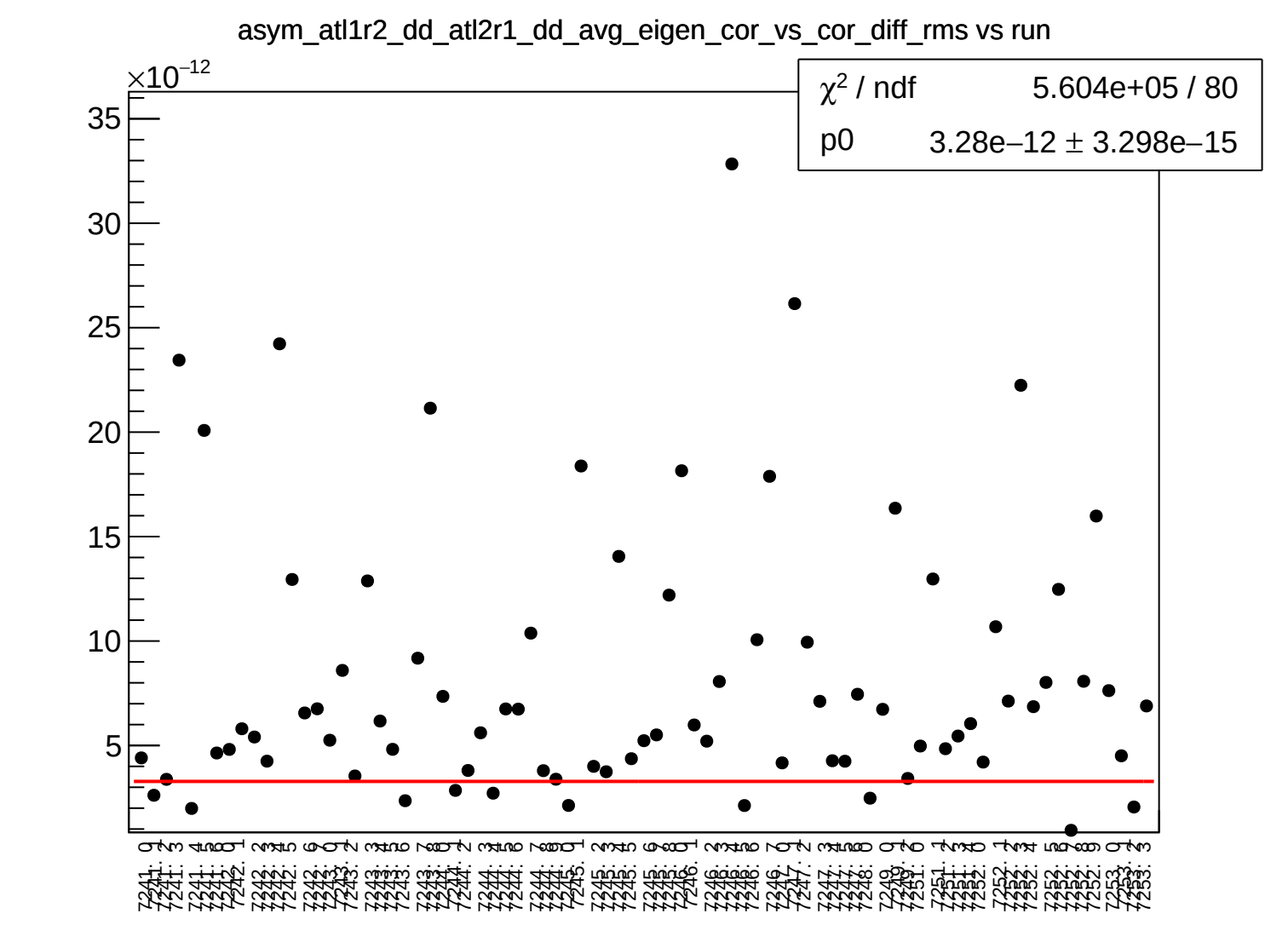

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.708e+04 / 80
p0 178.3 ± 0.144
240
220
200
180
160
140

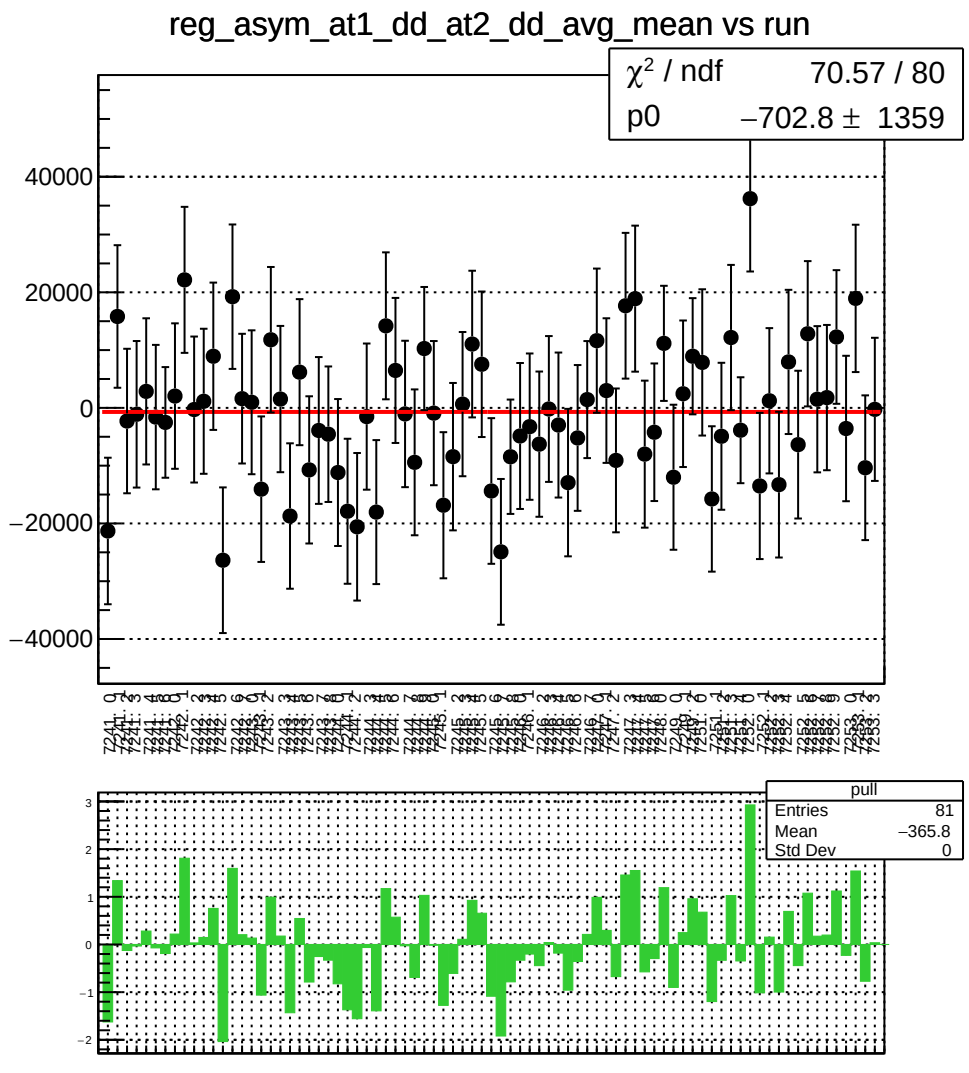

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.11 / 80
p0 0.07565 ± 0.2037
pull
Entries 81
Mean −88.11
Std Dev 0
pull1D
Entries 81
Mean −0.02499
Std Dev 1.106

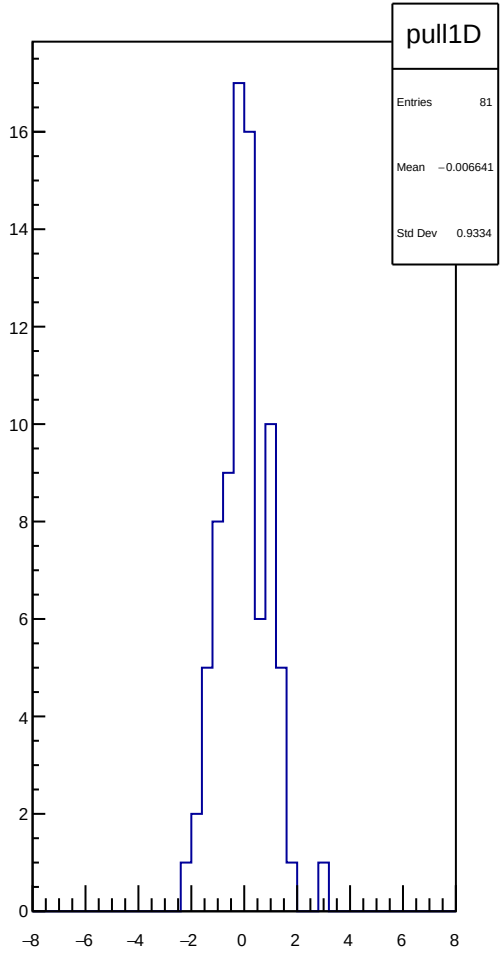

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.708e+04 / 80
p0 178.3 ± 0.144
240
220
200
180
160
140

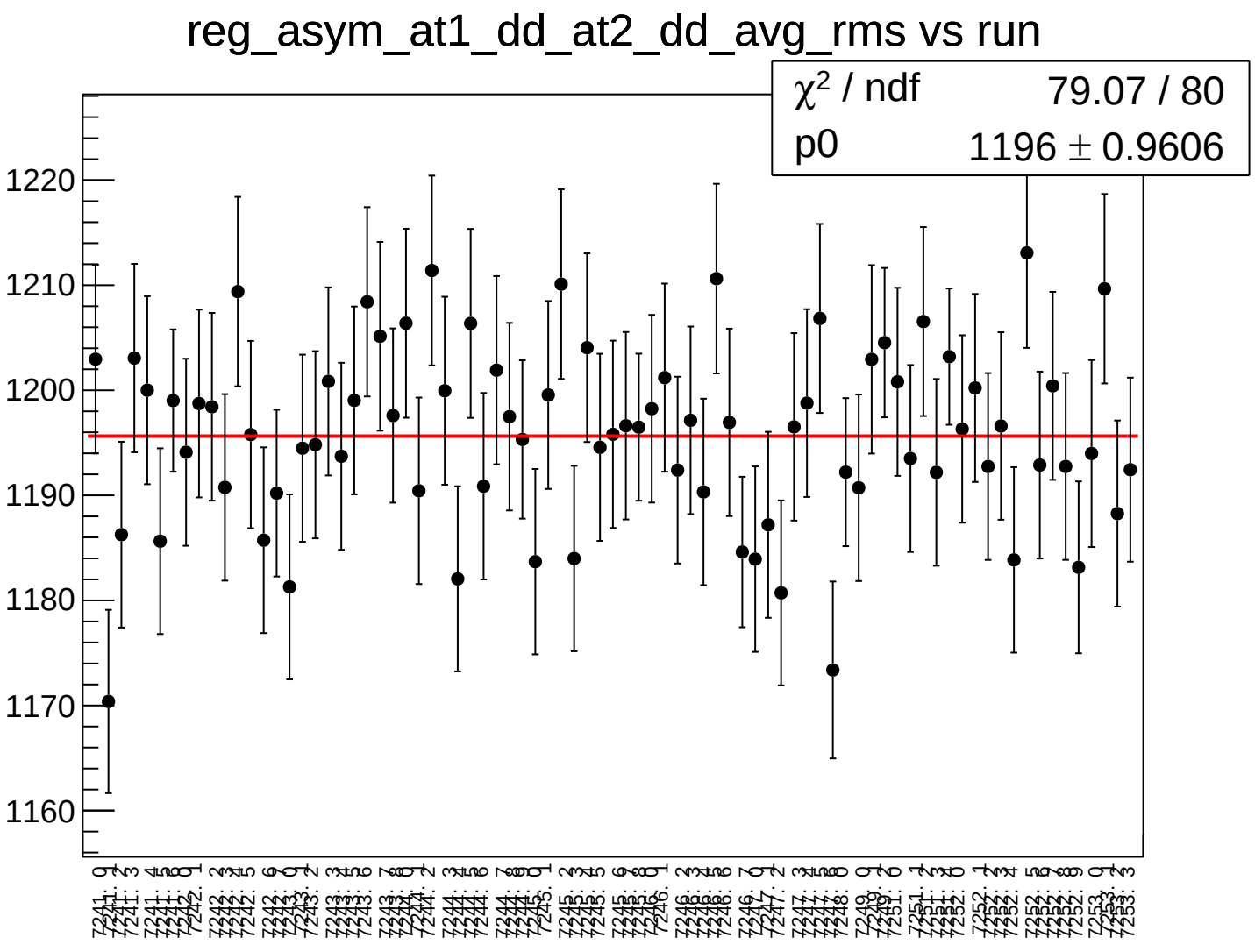

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 75.08 / 80
p0 7.695e−15 ± 4.665e−15
pull
Entries 81
Mean 67.48
Std Dev 40.77

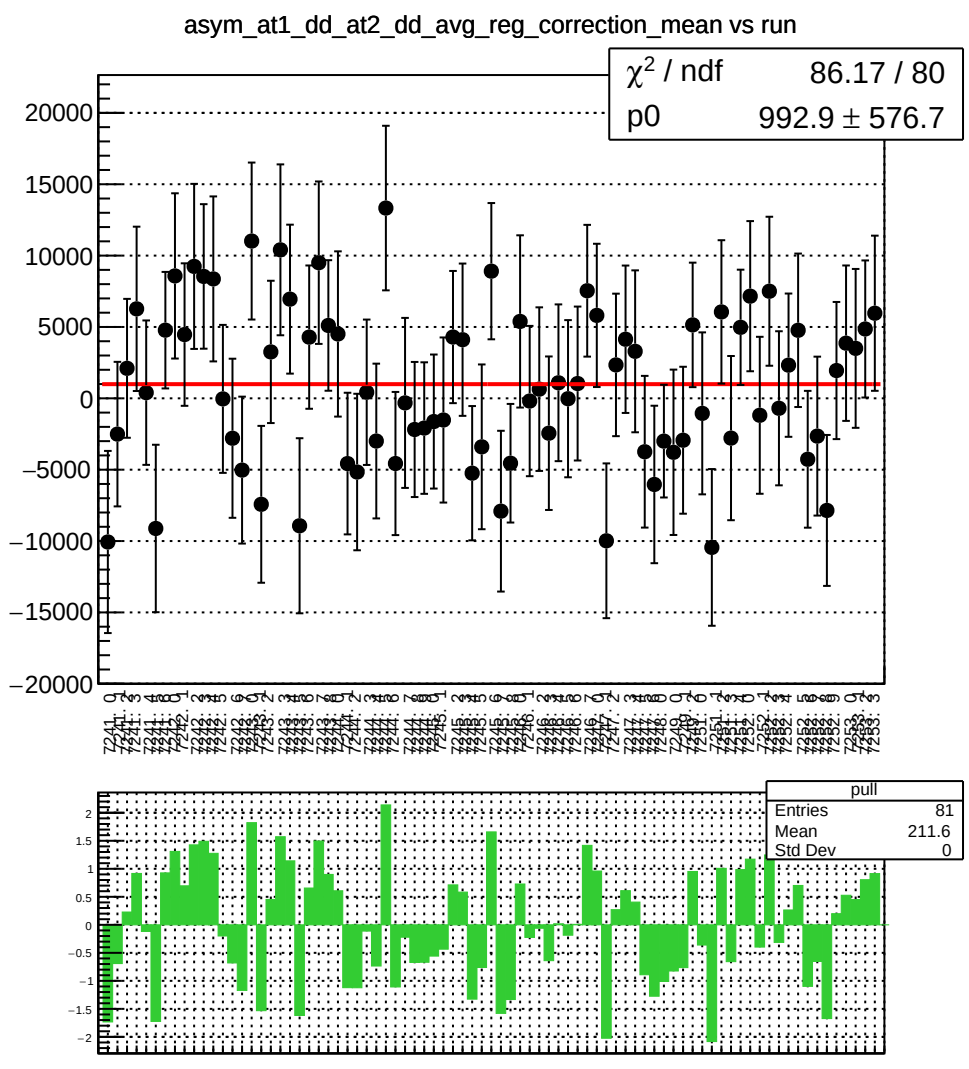

pull1D
Entries 81
Mean 0.0255
Std Dev 0.9624

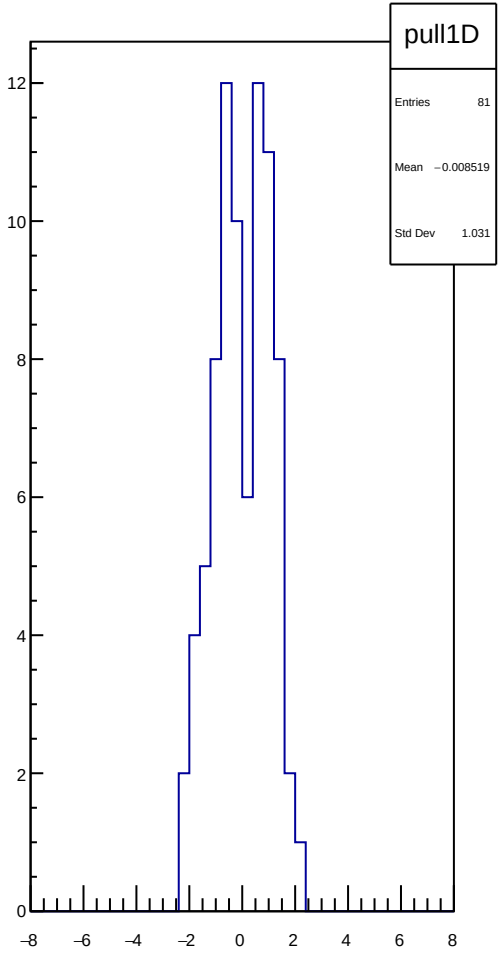

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.604e+05 / 80
p0 3.28e−12 ± 3.298e−15
35
30
25
20
15
10
5

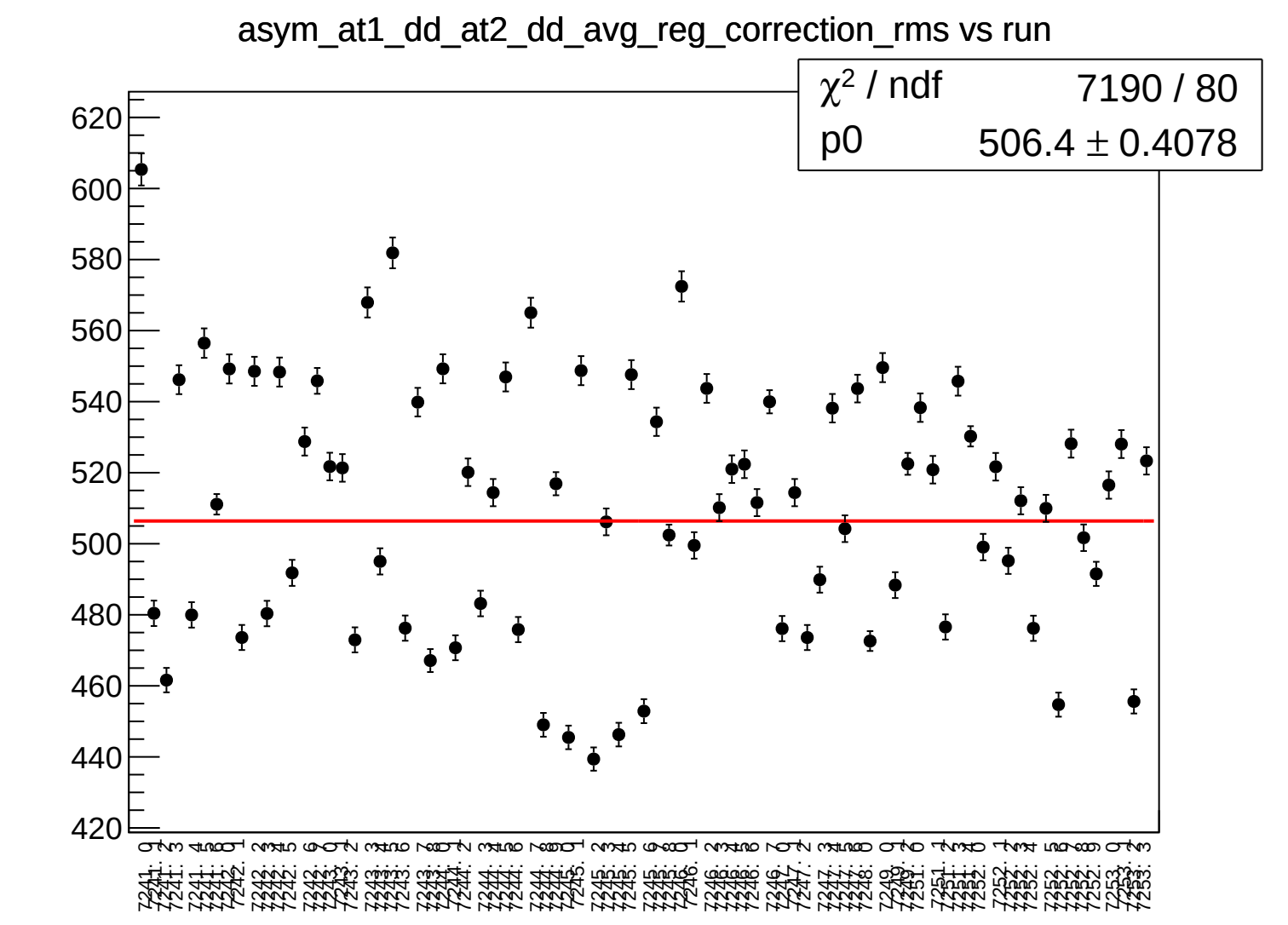

reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 70.57 / 80
p0 −702.8 ± 1359
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −365.8
Std Dev 0
3
2
1
0
−1
−2

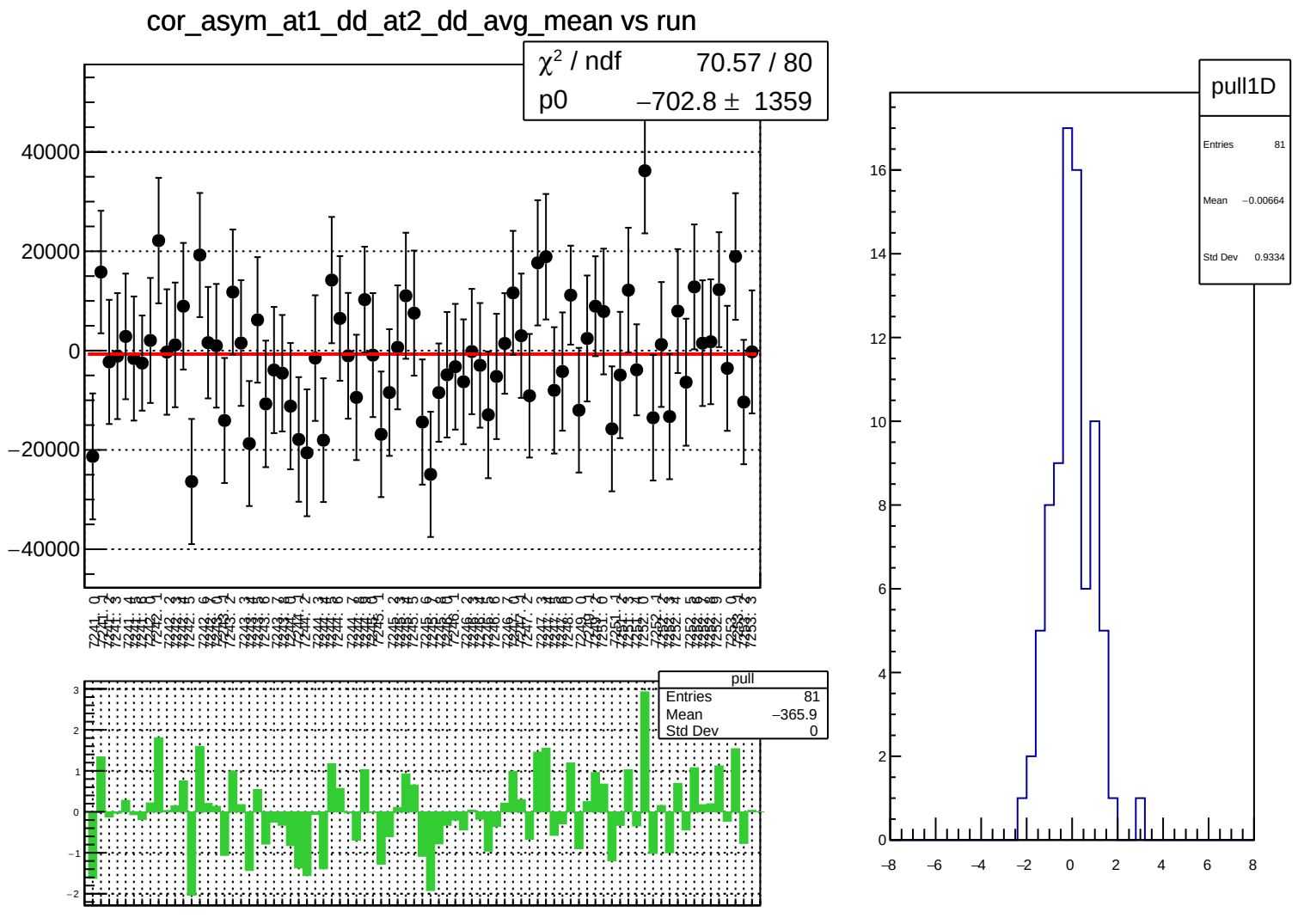

pull1D
Entries 81
Mean −0.006641
Std Dev 0.9334
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

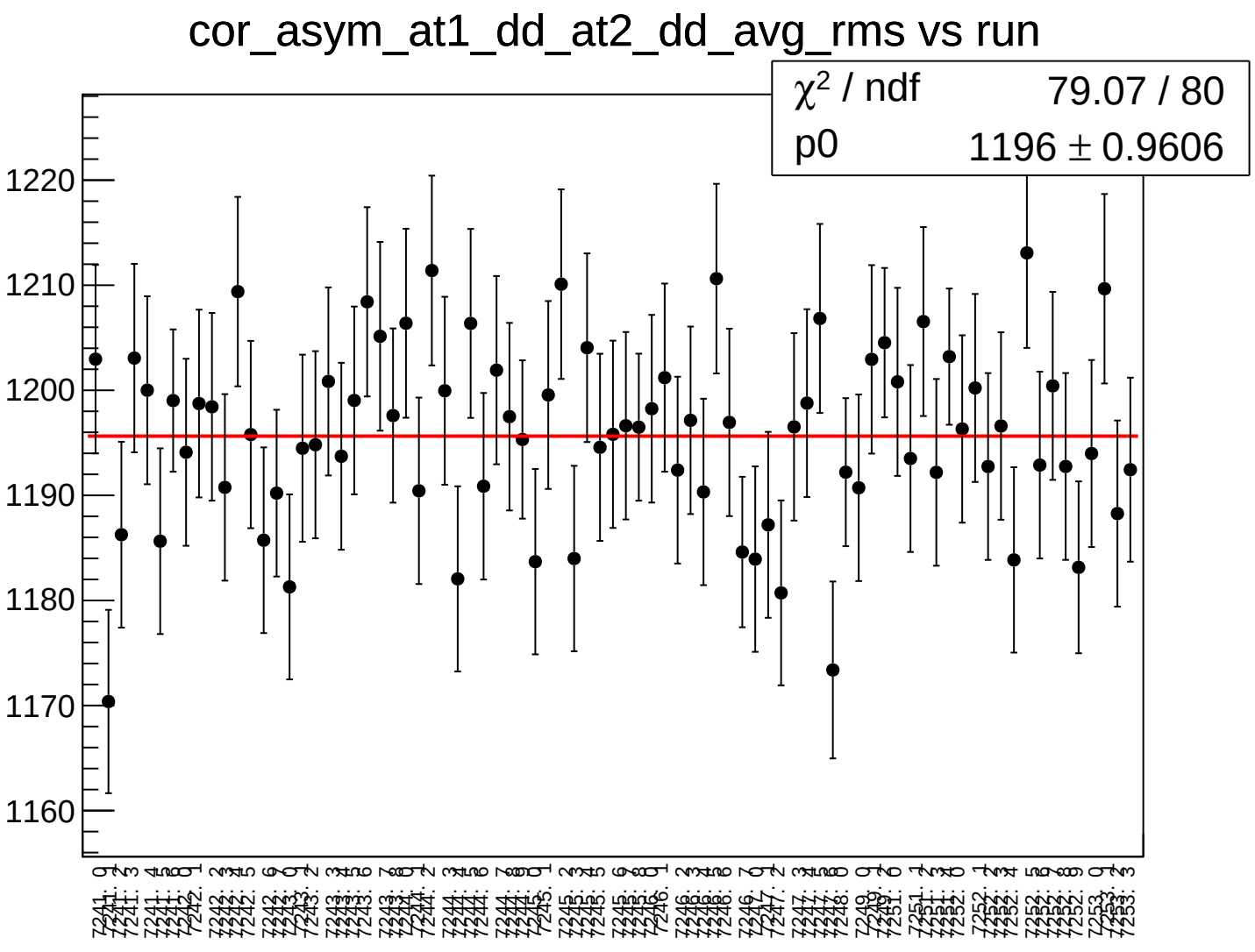

reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 79.07 / 80
p0 1196 ± 0.9606
1220
1210
1200
1190
1180
1170
1160

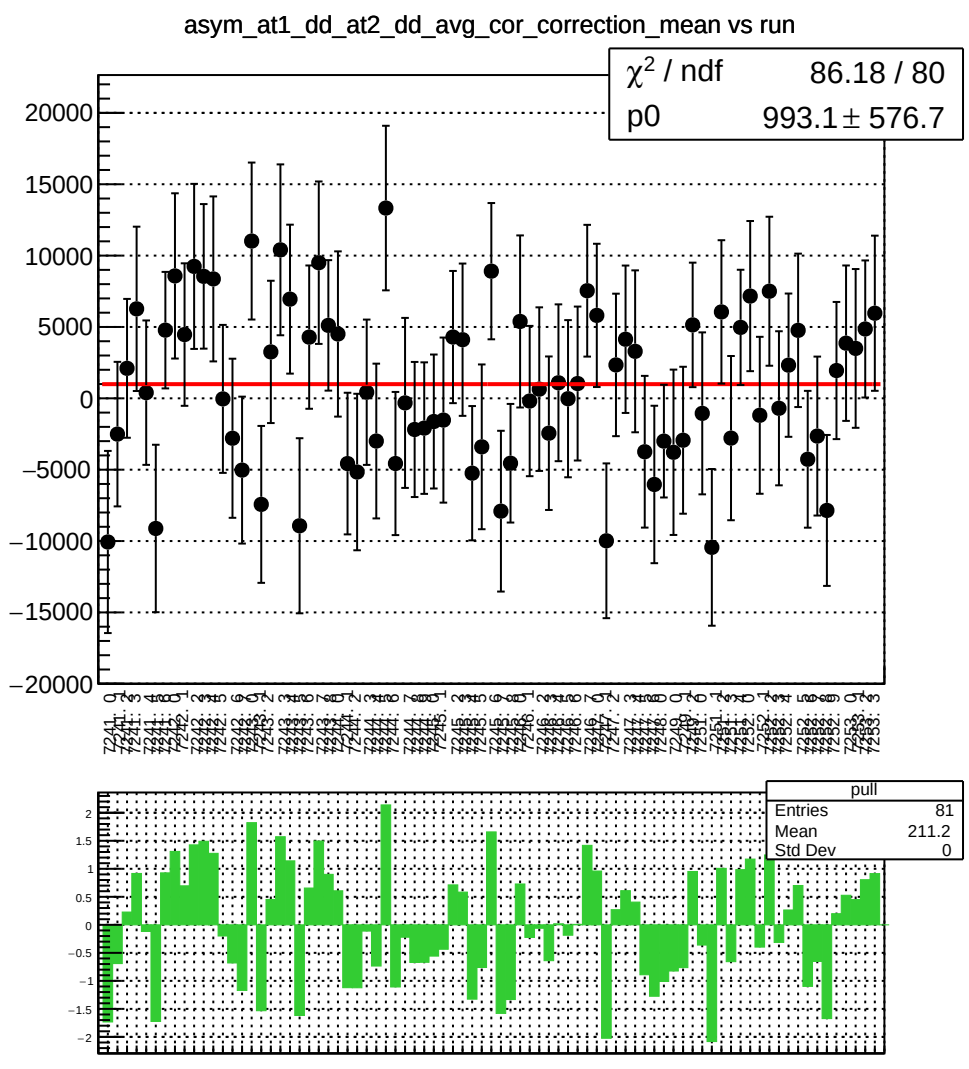

asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 86.17 / 80
p0 992.9 ± 576.7
pull
Entries 81
Mean 211.6
Std Dev 0

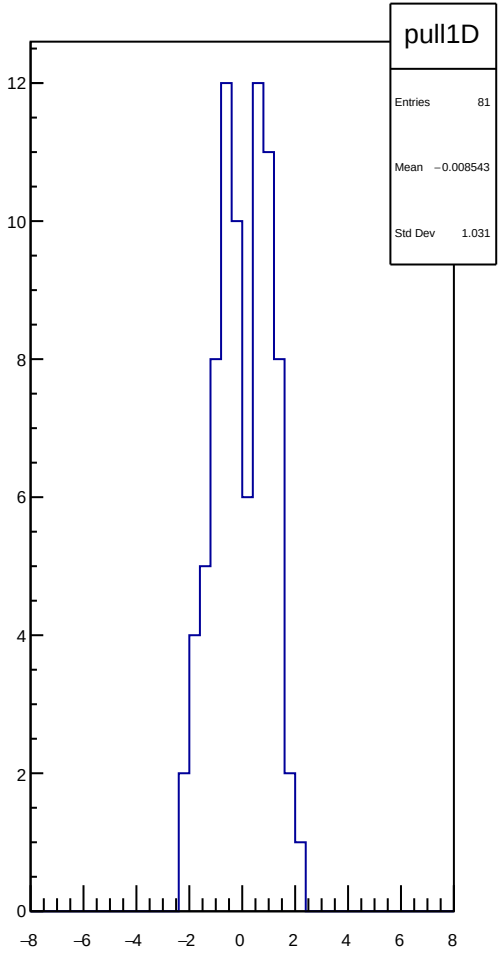

pull1D
Entries 81
Mean −0.008519
Std Dev 1.031

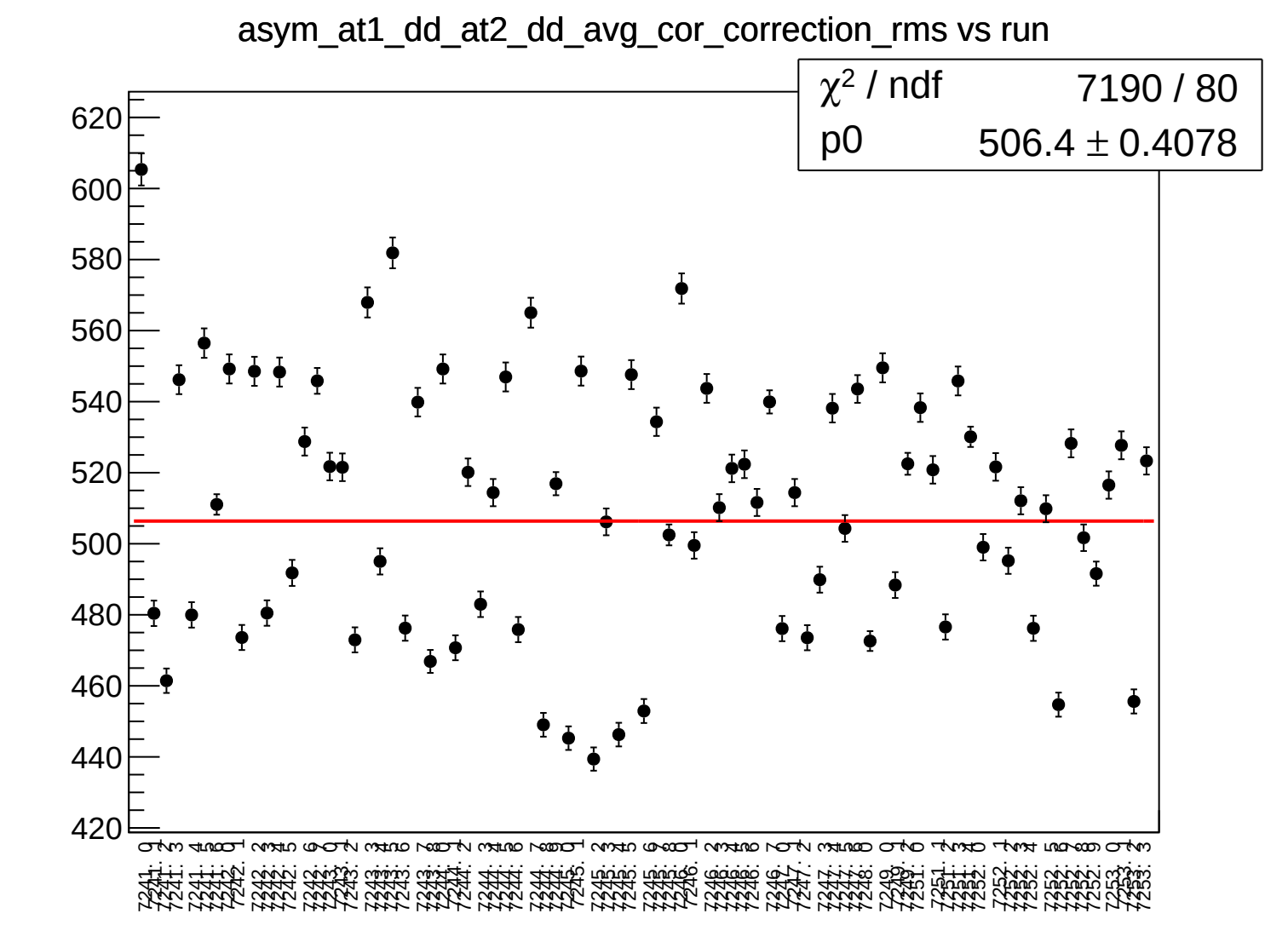

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 7190 / 80
p0 506.4 ± 0.4078
620
600
580
560
540
520
500
480
460
440
420

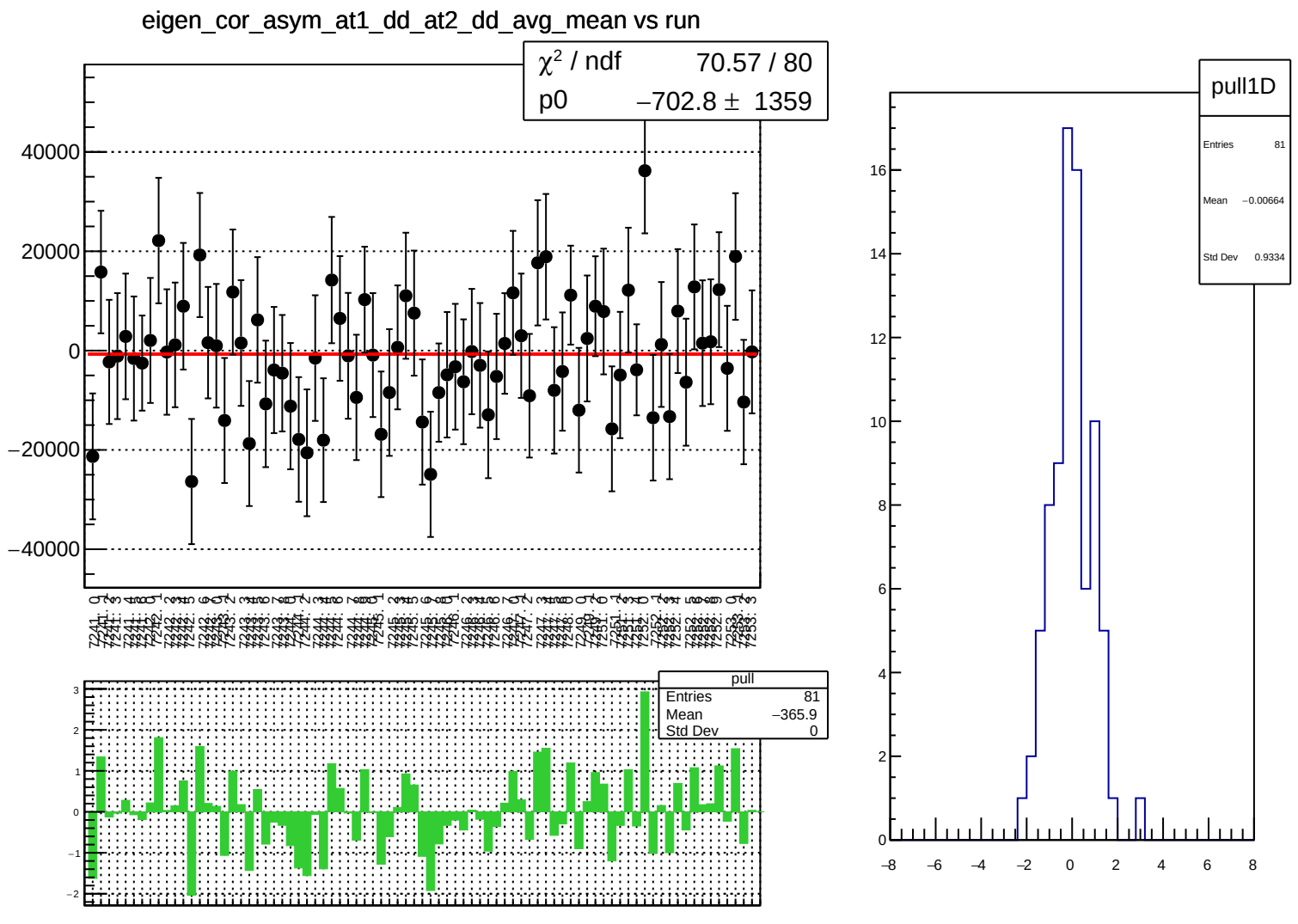

cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 70.57 / 80
p0 −702.8 ± 1359
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −365.9
Std Dev 0
pull1D
Entries 81
Mean −0.00664
Std Dev 0.9334

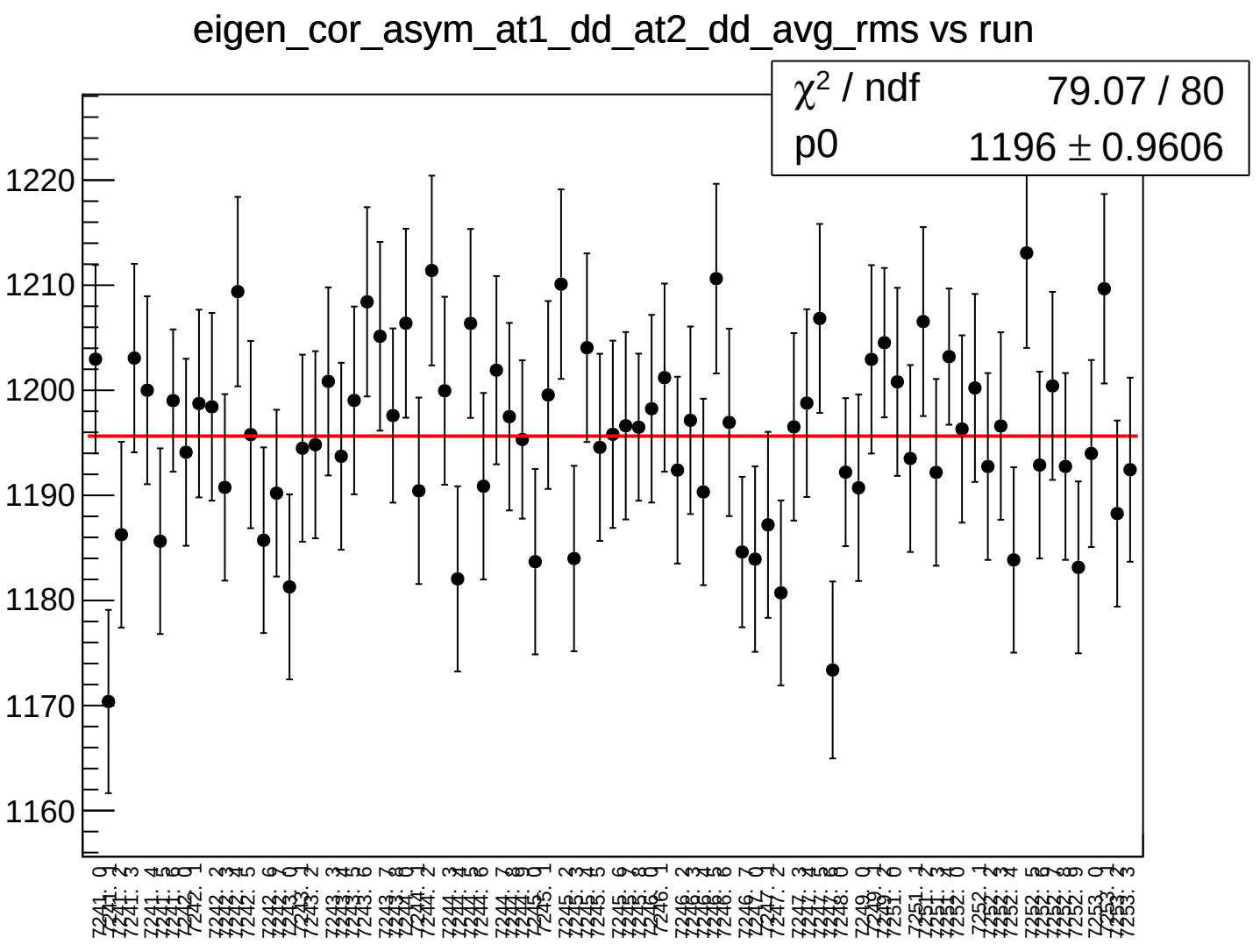

cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 79.07 / 80
p0 1196 ± 0.9606
1220
1210
1200
1190
1180
1170
1160

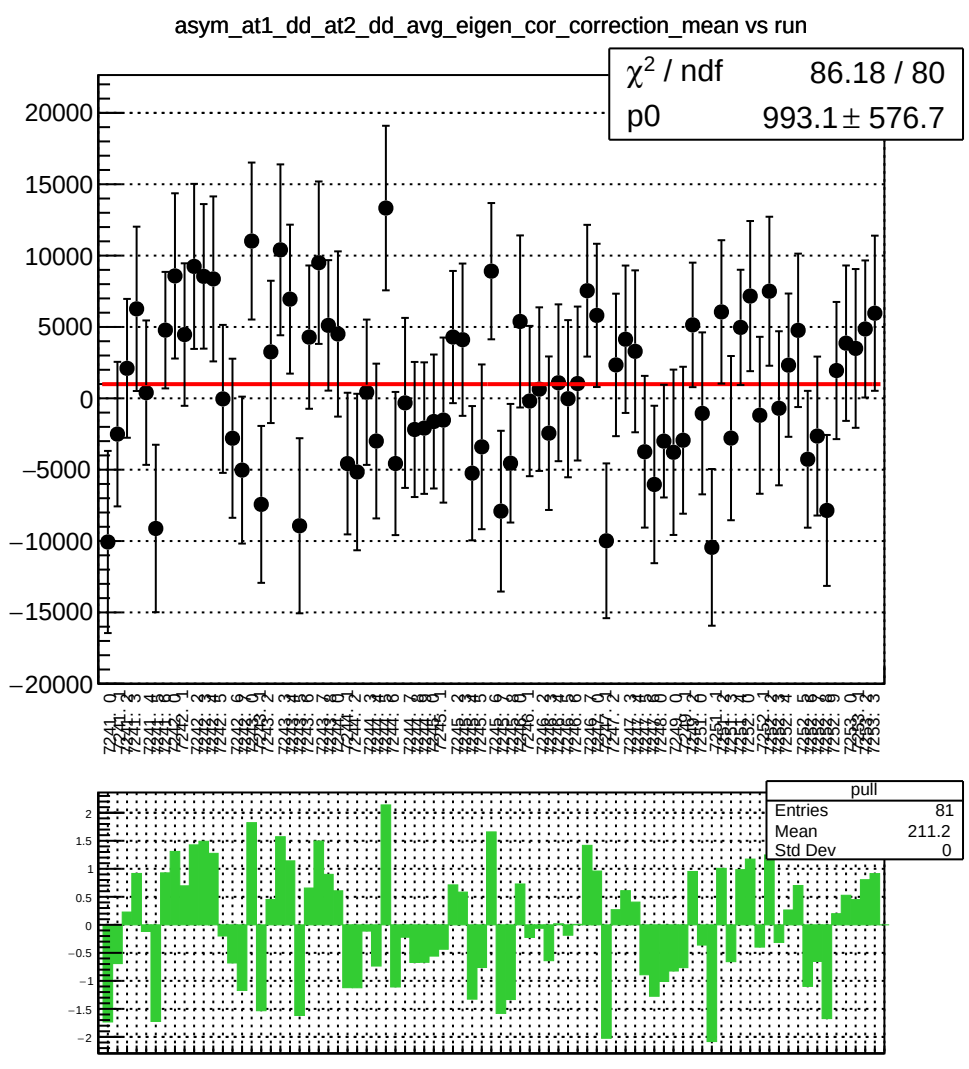

asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 86.18 / 80
p0 993.1 ± 576.7
pull
Entries 81
Mean 211.2
Std Dev 0

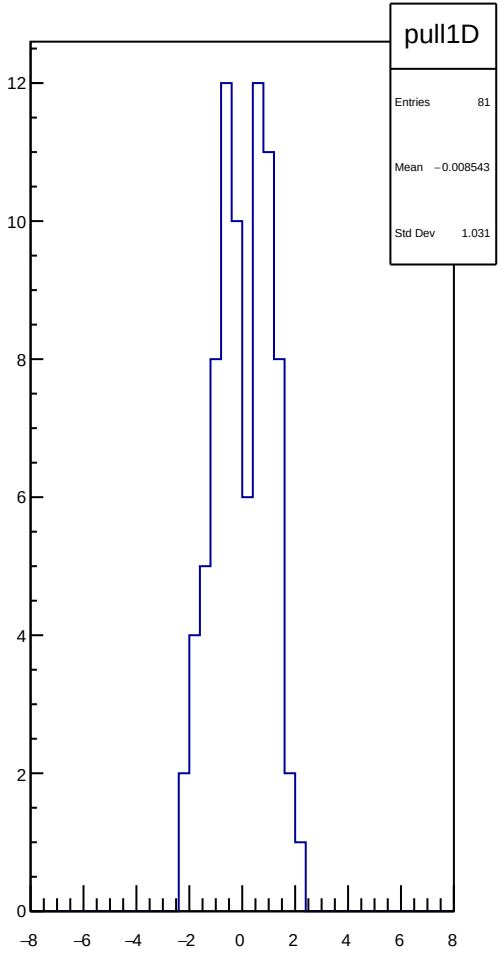

pull1D
Entries 81
Mean −0.008543
Std Dev 1.031

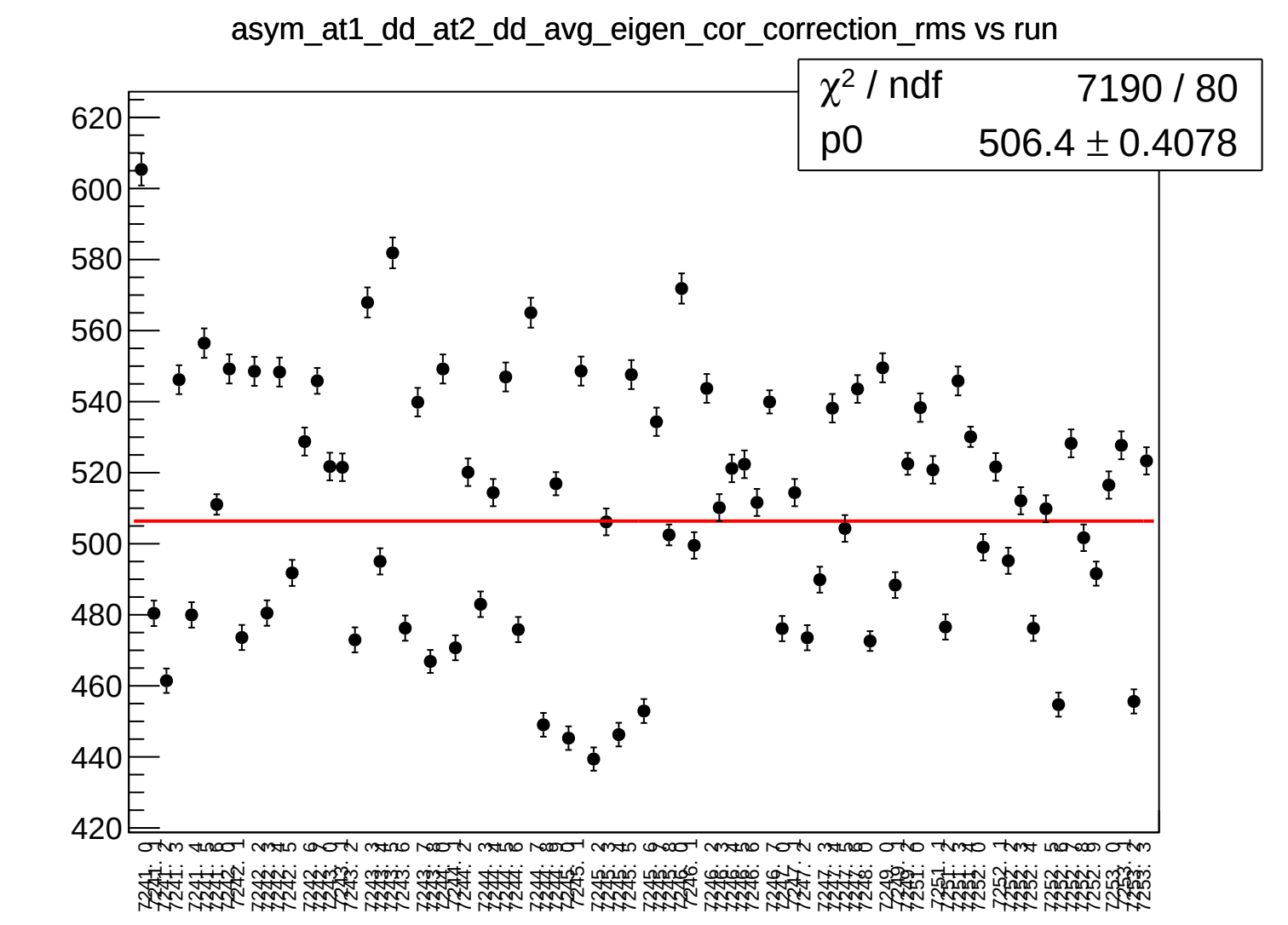

asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 7190 / 80
p0 506.4 ± 0.4078
620
600
580
560
540
520
500
480
460
440
420

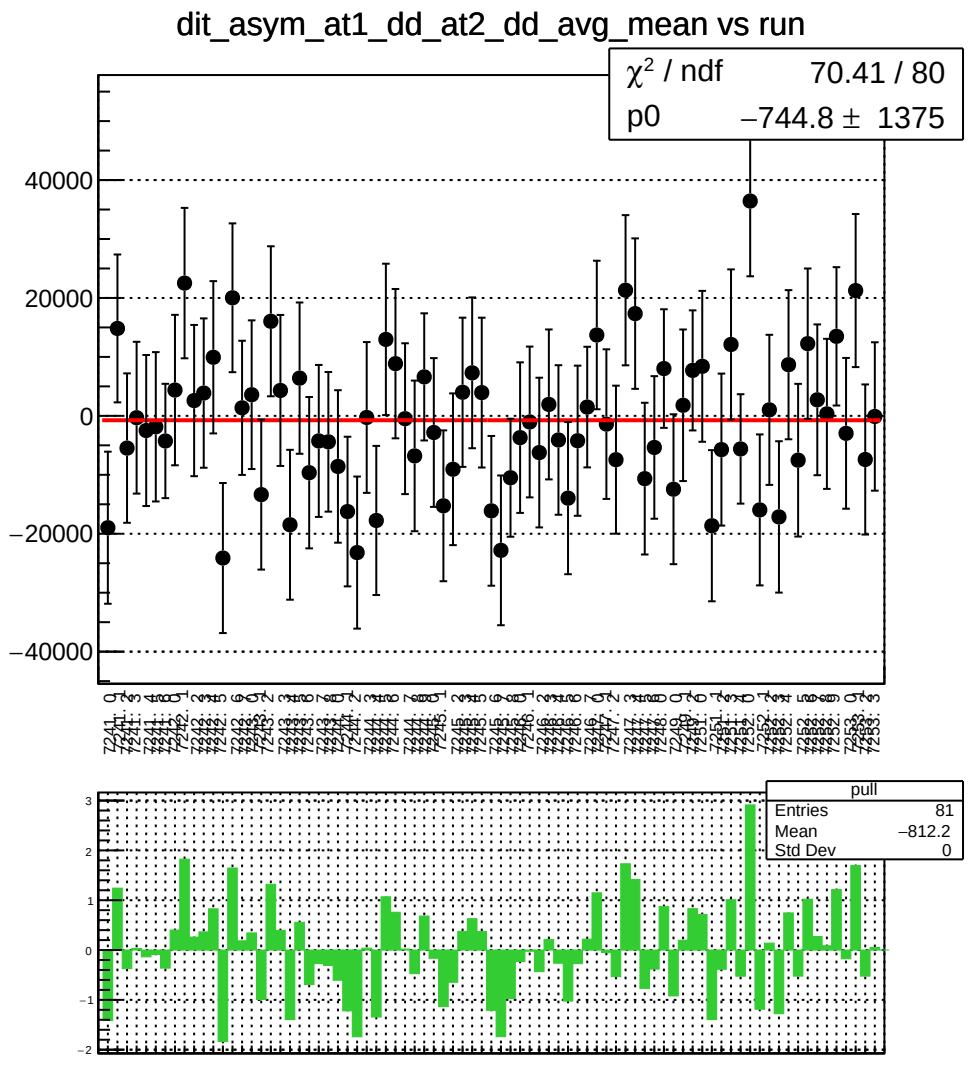

eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 70.57 / 80
p0 −702.8 ± 1359
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −365.9
Std Dev 0
pull1D
Entries 81
Mean −0.00664
Std Dev 0.9334

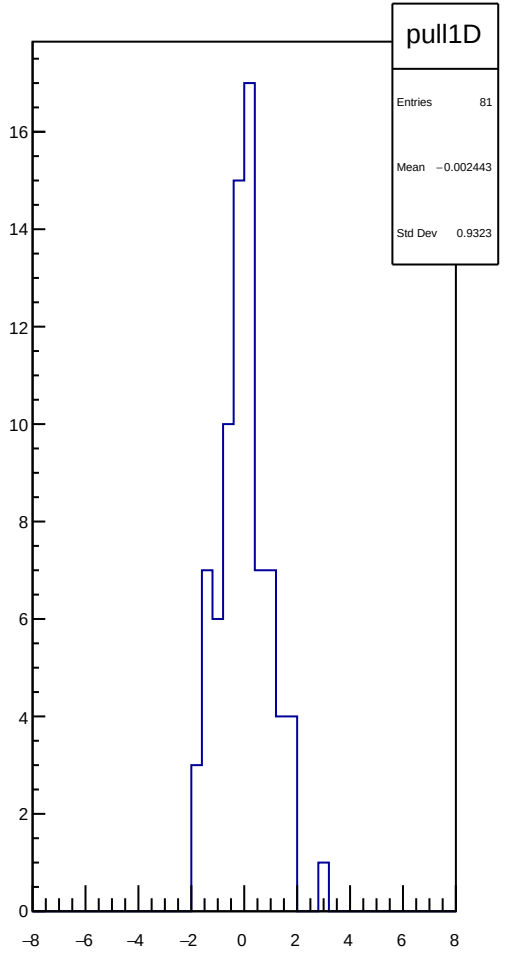

eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 79.07 / 80
p0 1196 ± 0.9606
1220
1210
1200
1190
1180
1170
1160

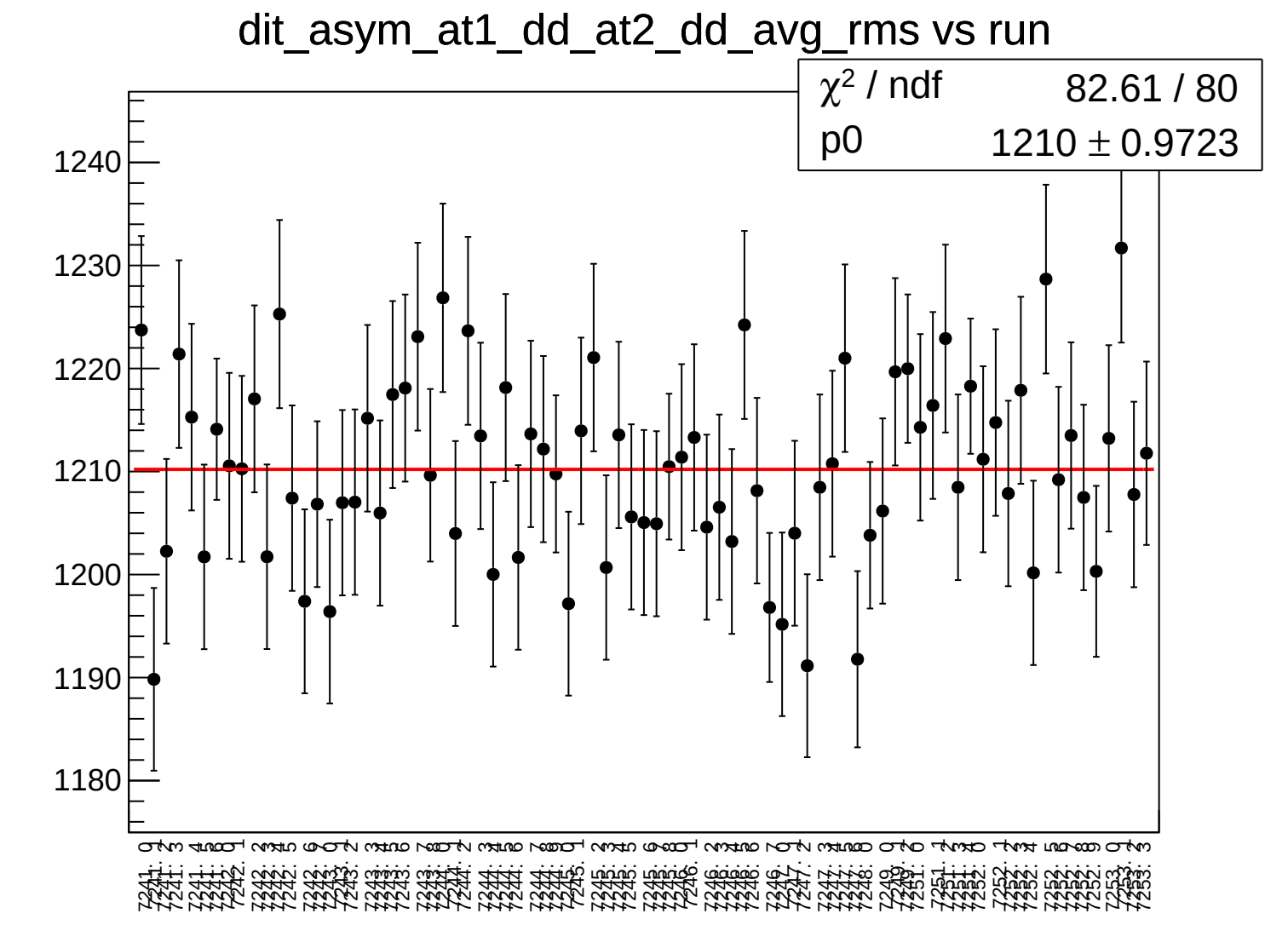

asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 86.18 / 80
p0 993.1 ± 576.7
pull
Entries 81
Mean 211.2
Std Dev 0

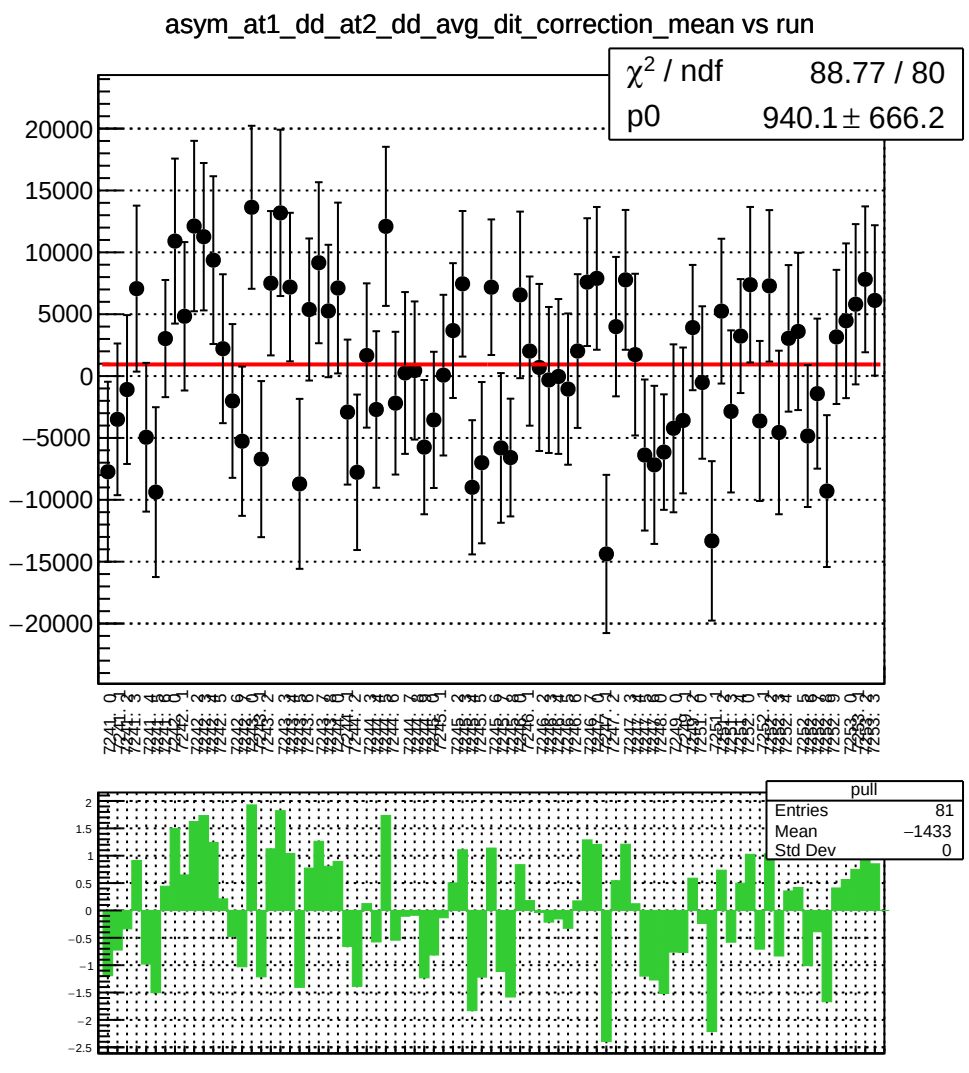

pull1D
Entries 81
Mean −0.008543
Std Dev 1.031

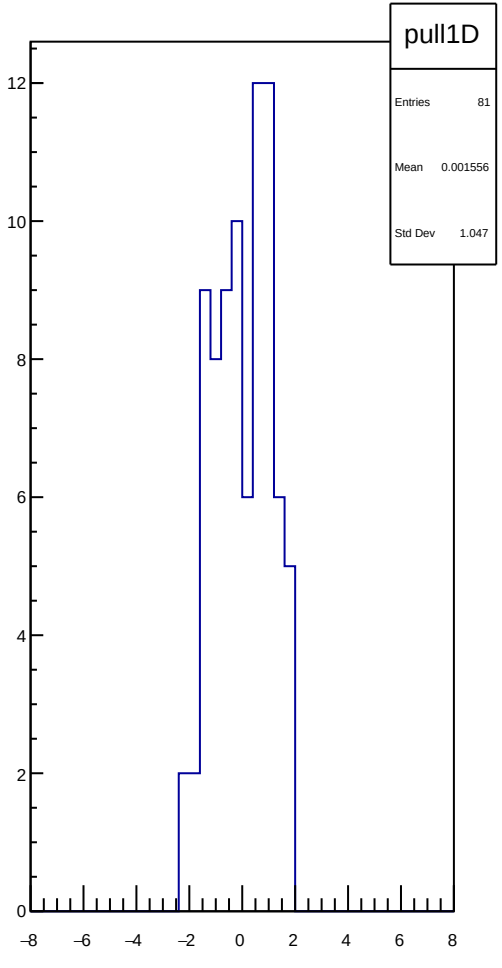

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 7190 / 80
p0 506.4 ± 0.4078
620
600
580
560
540
520
500
480
460
440
420

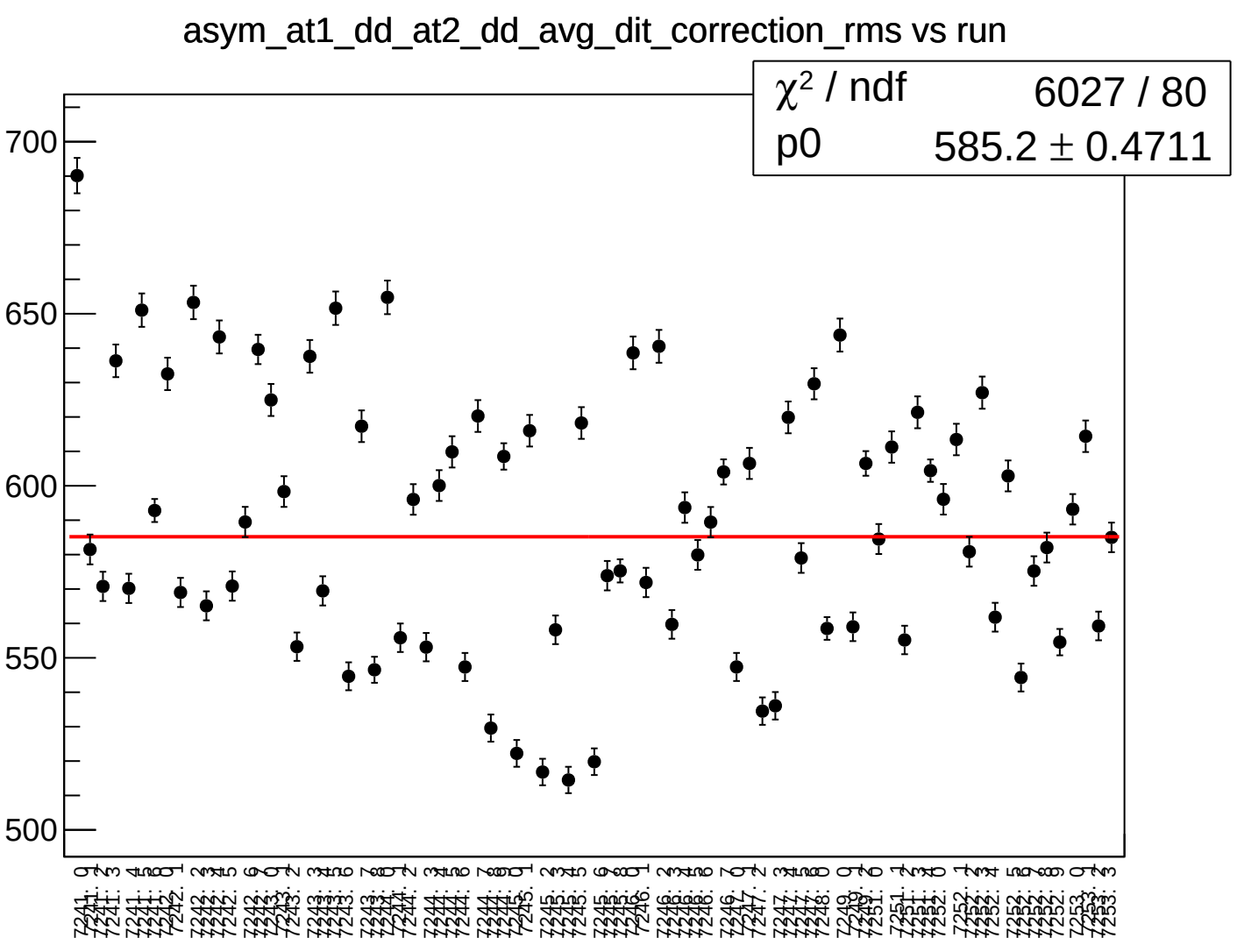

dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 70.41 / 80
p0 −744.8 ± 1375
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −812.2
Std Dev 0
3
2
1
0
−1
−2

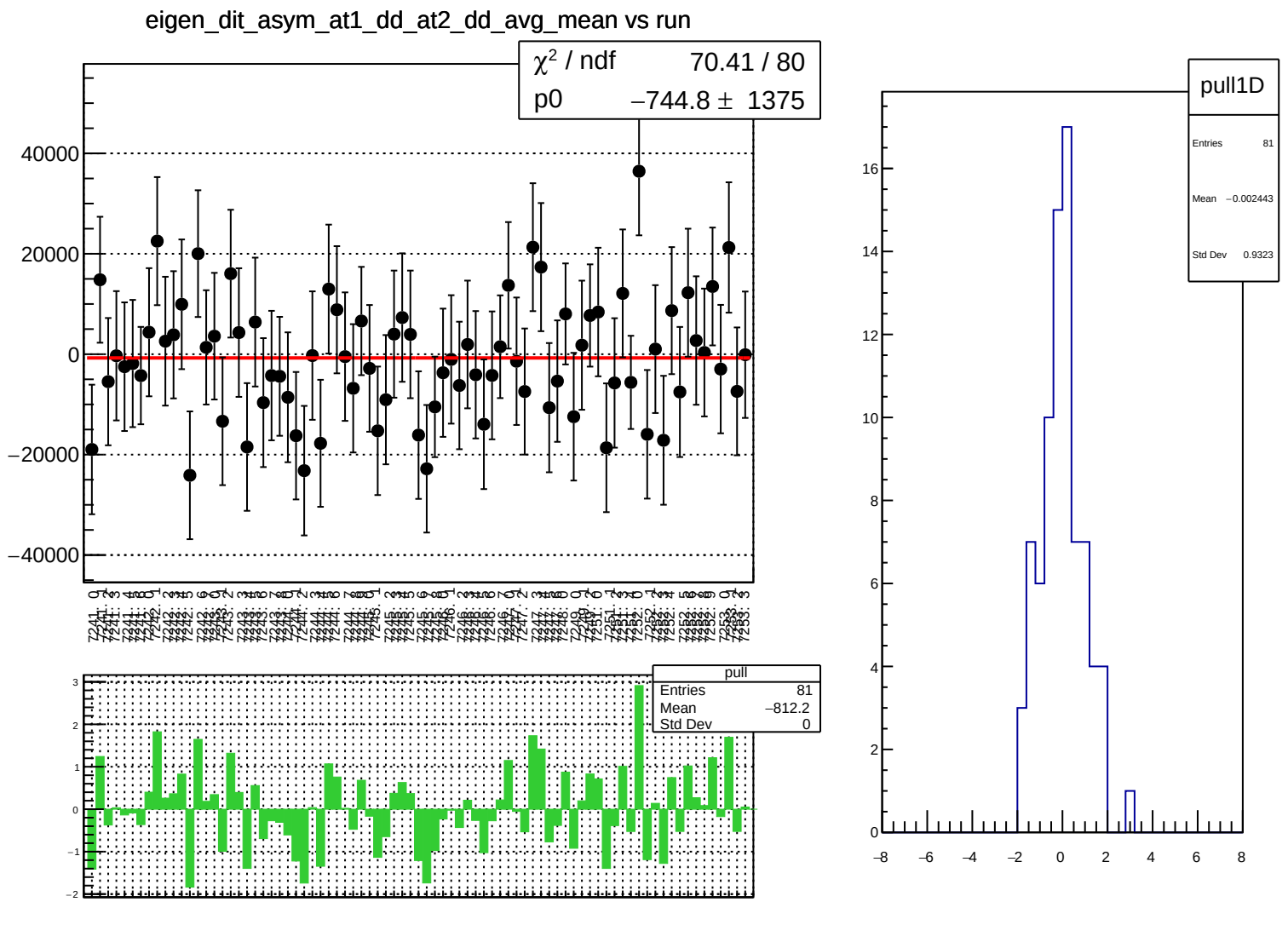

pull1D
Entries 81
Mean −0.002443
Std Dev 0.9323
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

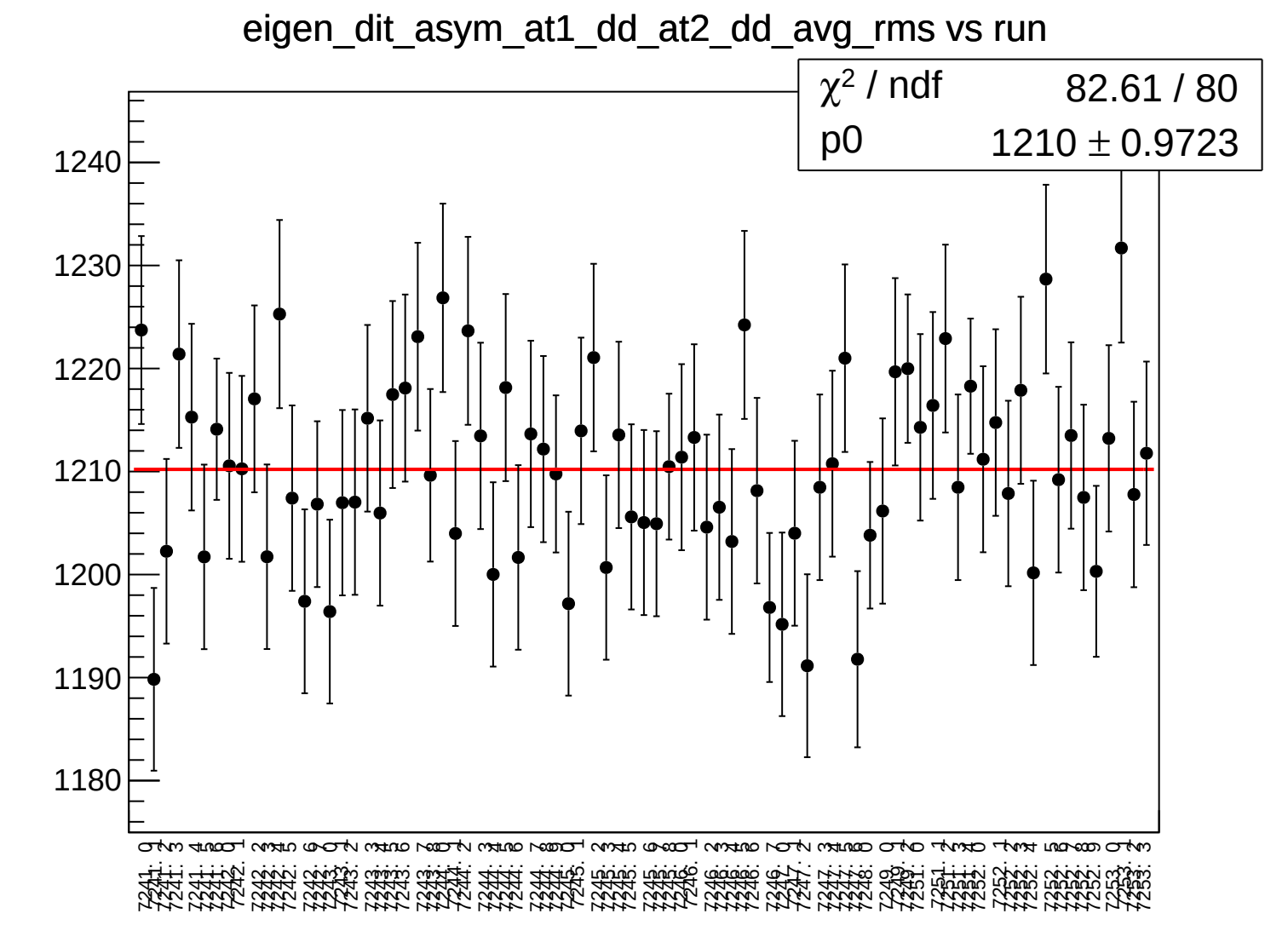

dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 82.61 / 80
p0 1210 ± 0.9723
1240
1230
1220
1210
1200
1190
1180

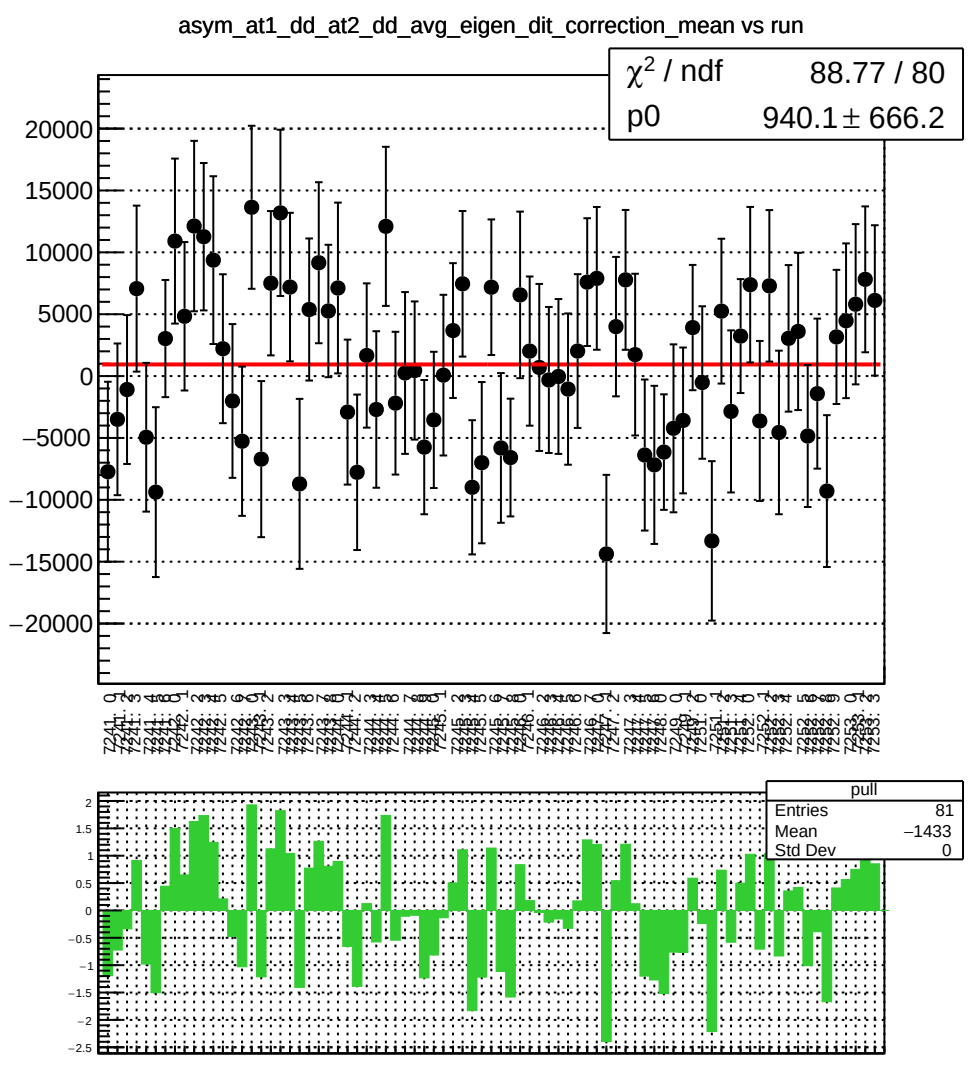

asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 88.77 / 80
p0 940.1 ± 666.2
pull
Entries 81
Mean −1433
Std Dev 0

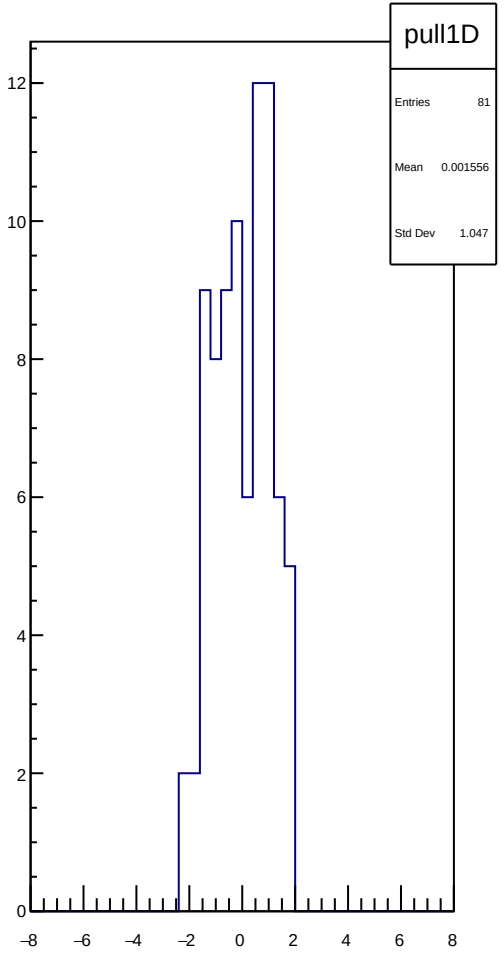

pull1D
Entries 81
Mean 0.001556
Std Dev 1.047

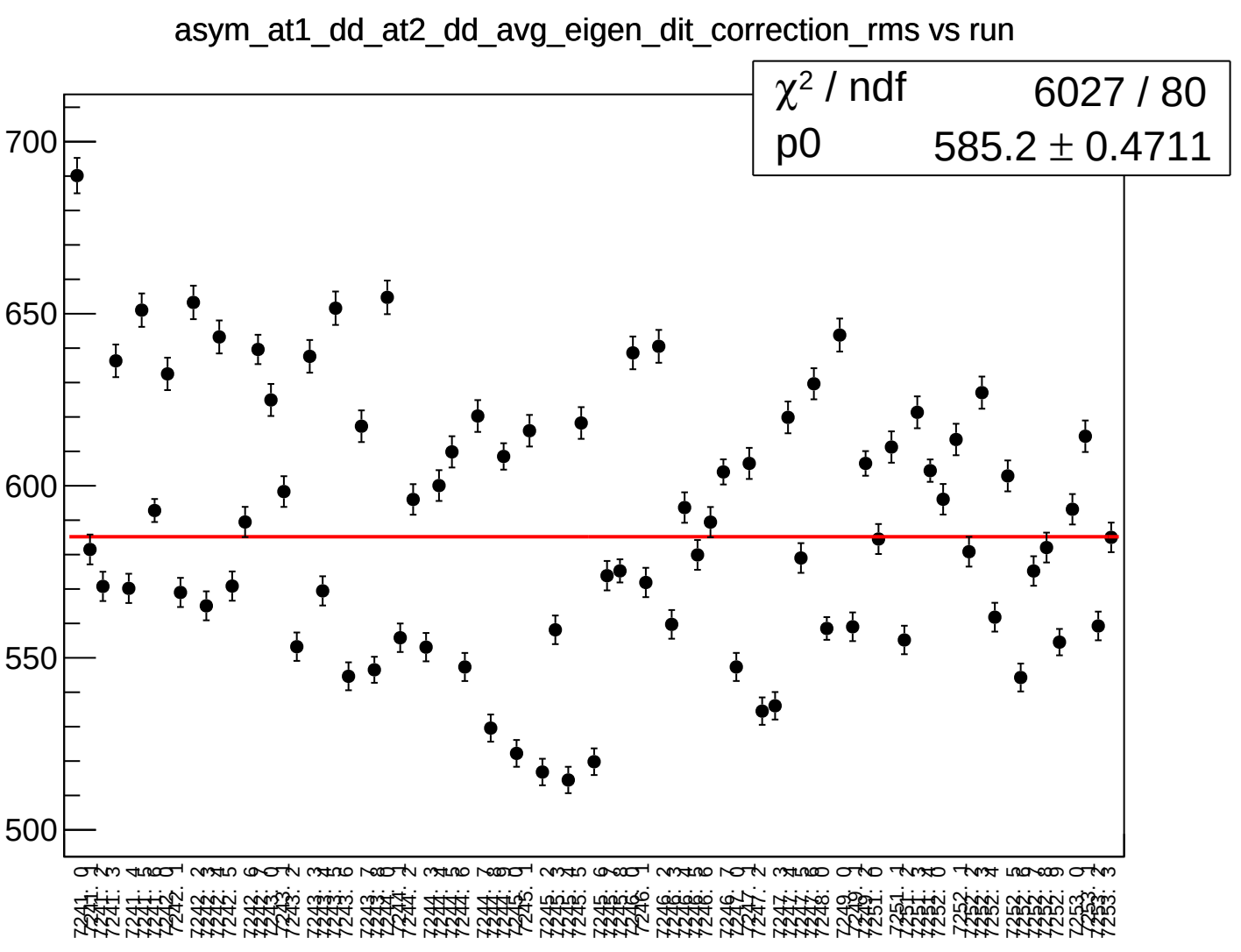

asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 6027 / 80
p0 585.2 ± 0.4711
700
650
600
550
500

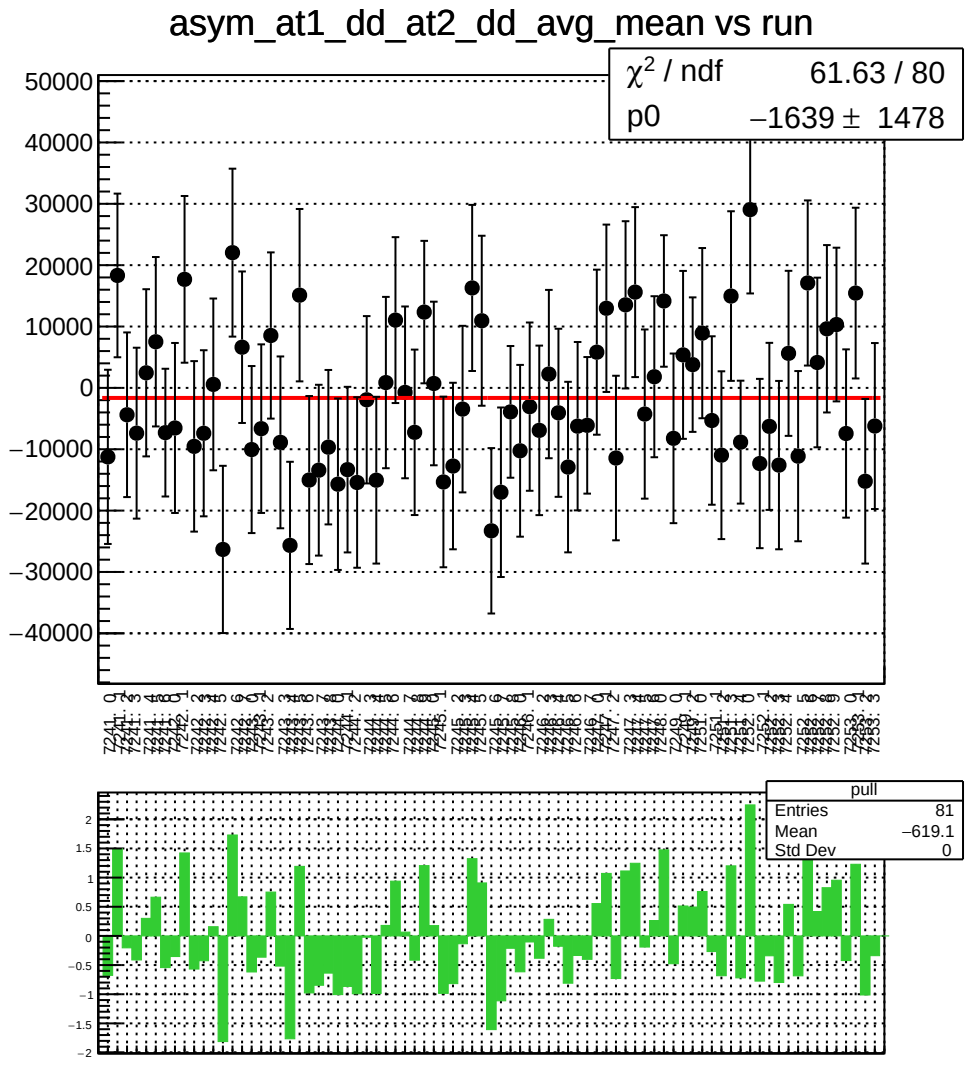

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 70.41 / 80
p0 −744.8 ± 1375
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −812.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 81
Mean −0.002443
Std Dev 0.9323
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

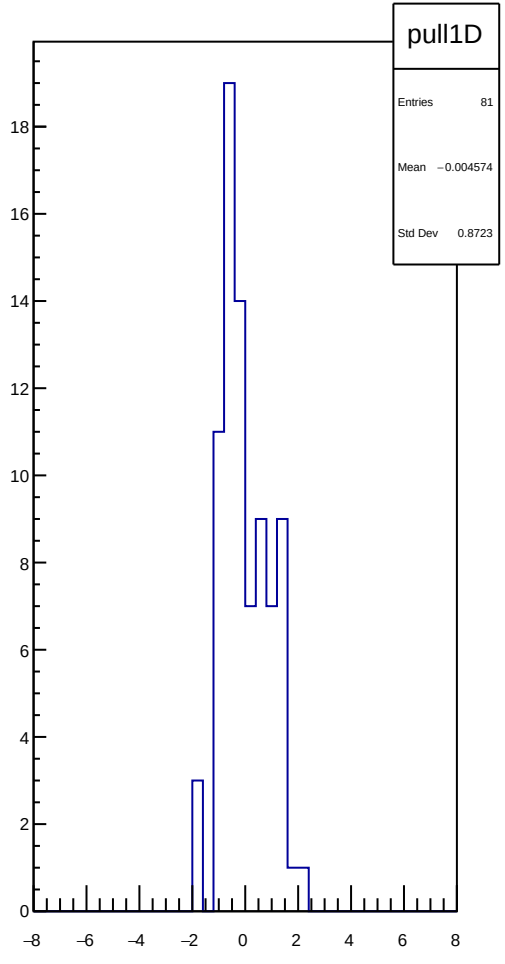

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 82.61 / 80
p0 1210 ± 0.9723
1240
1230
1220
1210
1200
1190
1180

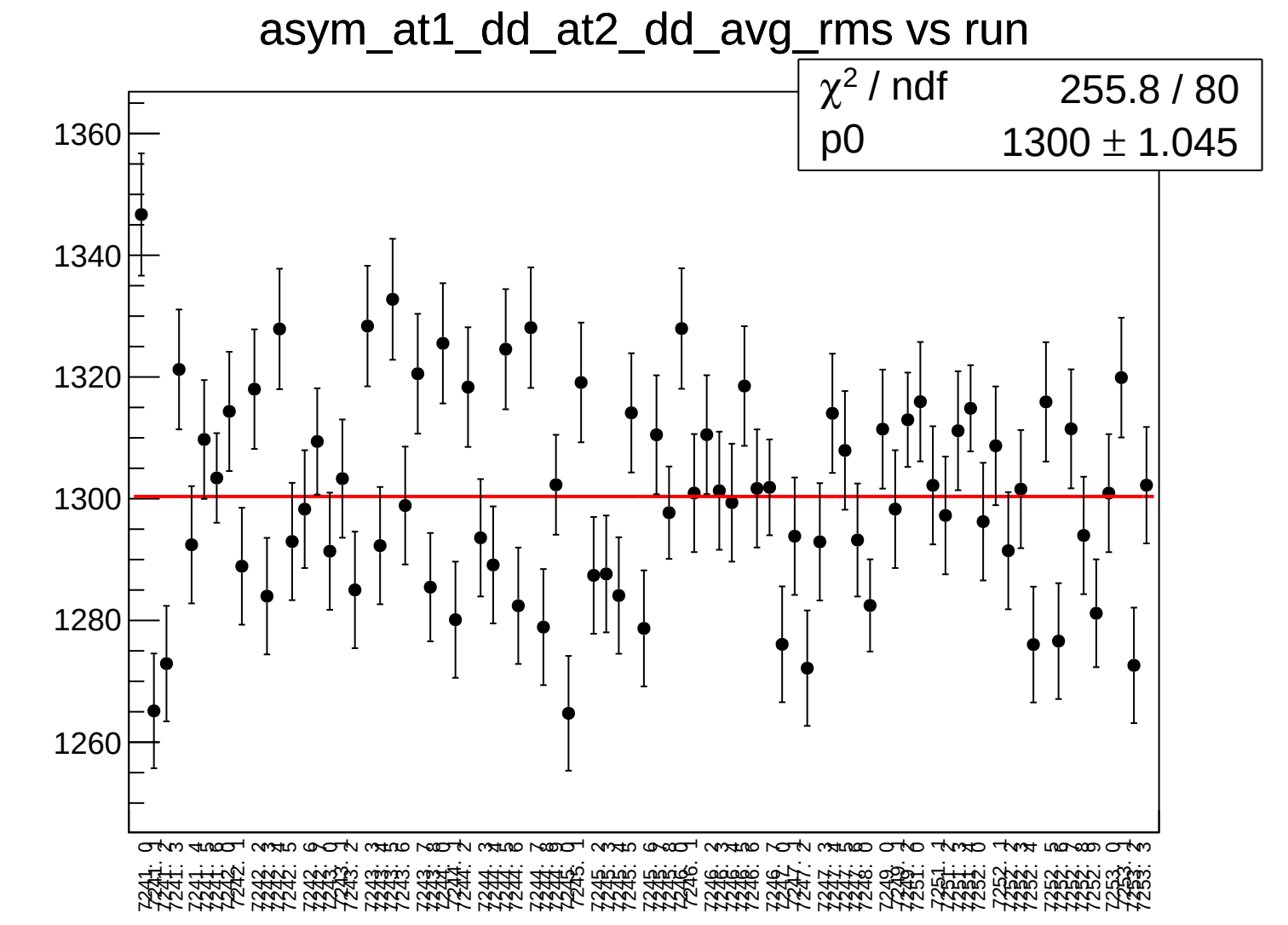

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 88.77 / 80
p0 940.1 ± 666.2
pull
Entries 81
Mean −1433
Std Dev 0

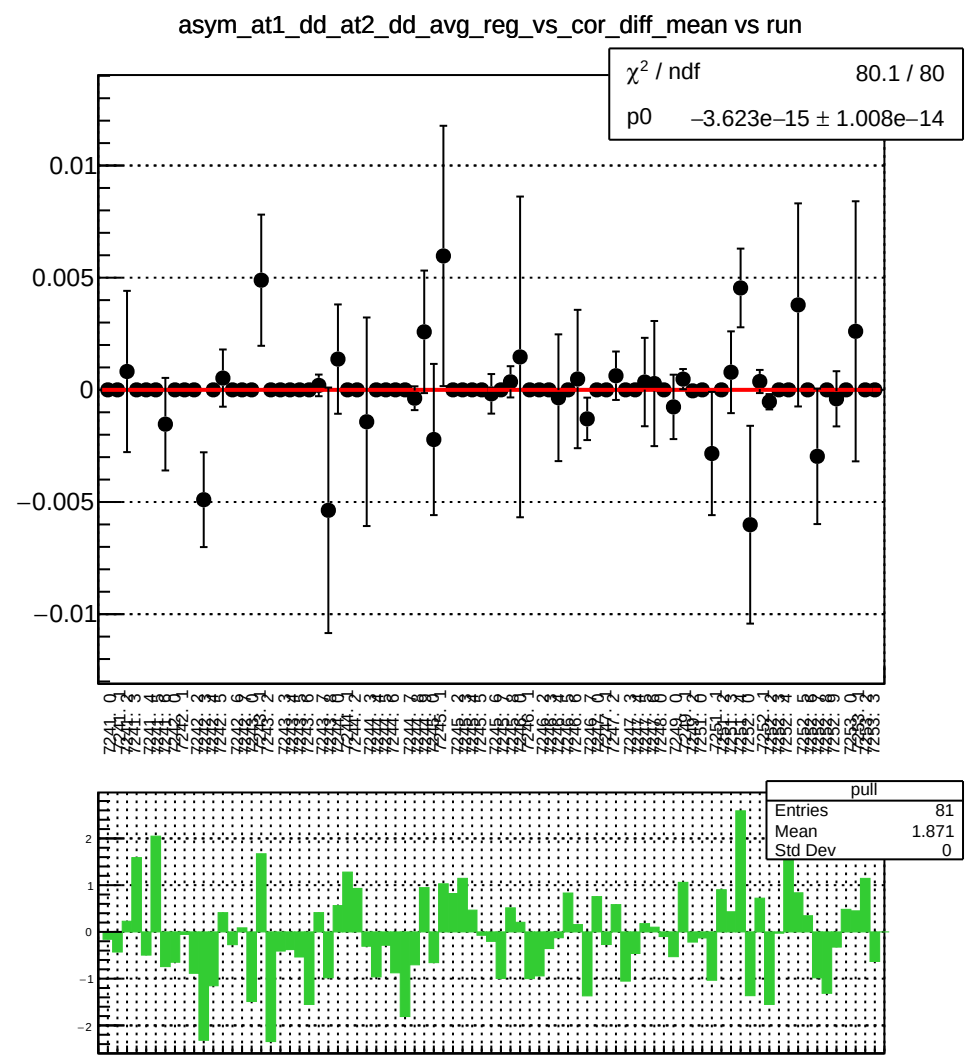

pull1D
Entries 81
Mean 0.001556
Std Dev 1.047

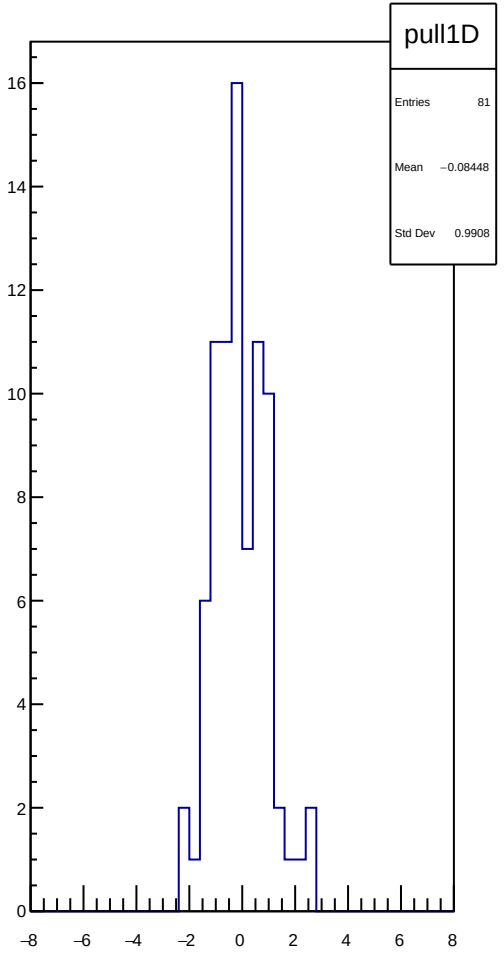

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 6027 / 80
p0 585.2 ± 0.4711
700
650
600
550
500

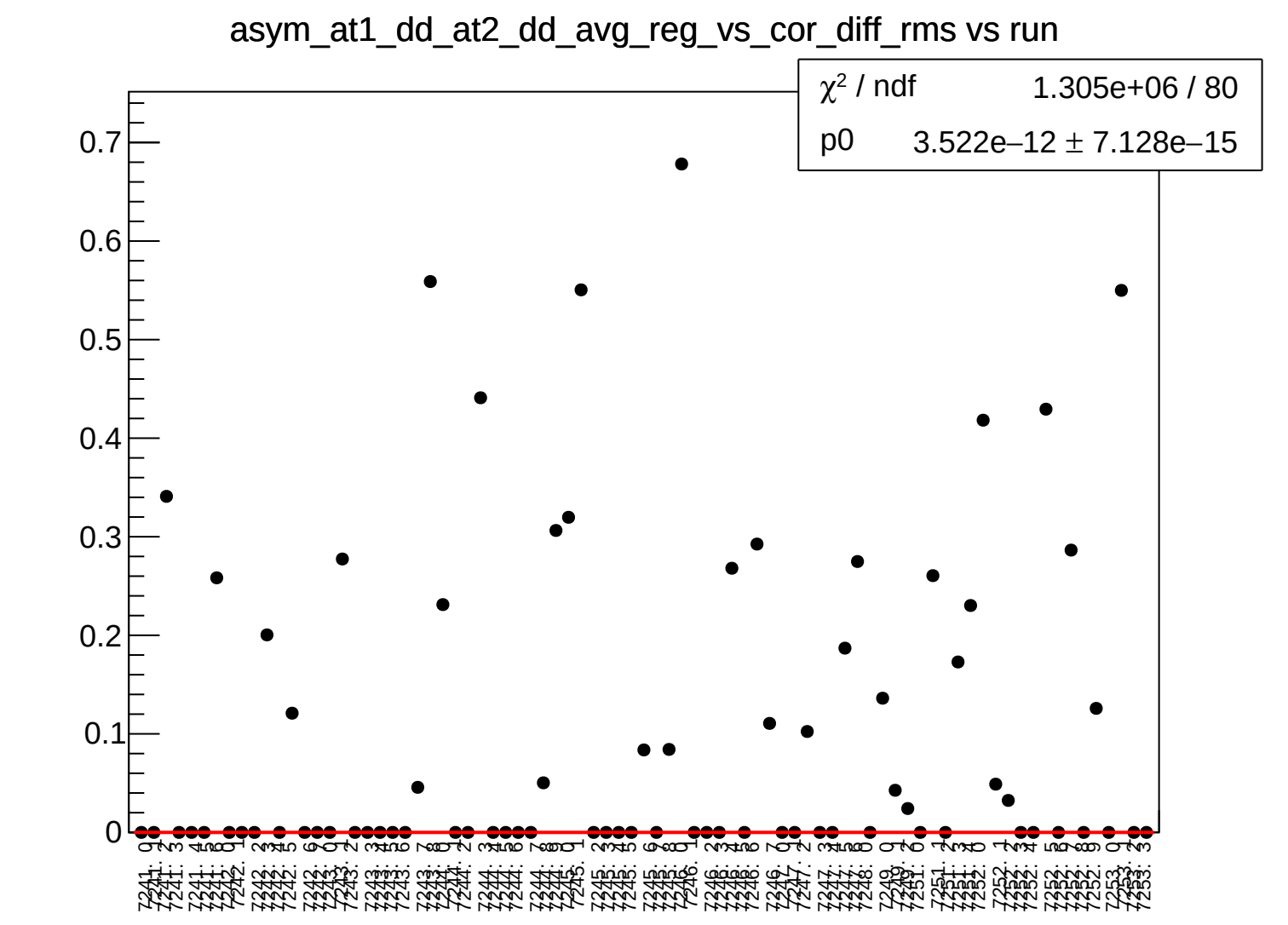

asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 61.63 / 80
p0 −1639 ± 1478
pull
Entries 81
Mean −619.1
Std Dev 0

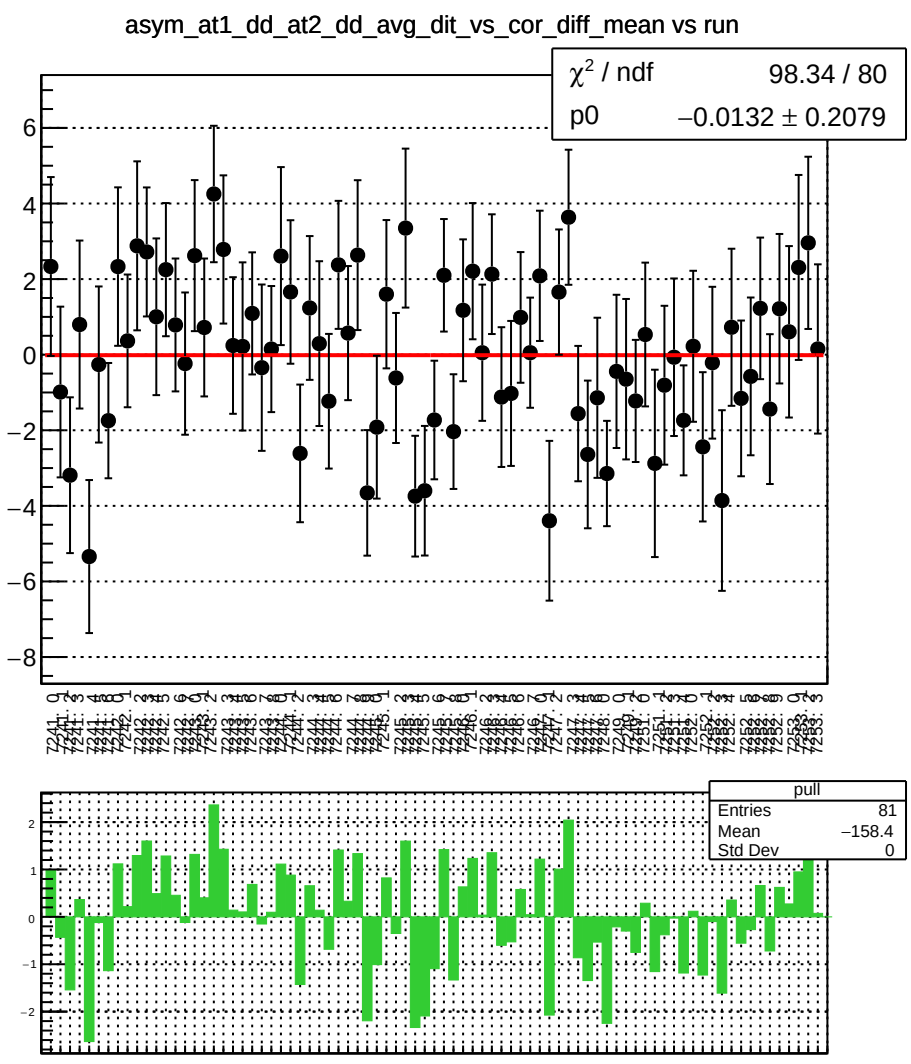

pull1D
Entries 81
Mean −0.004574
Std Dev 0.8723

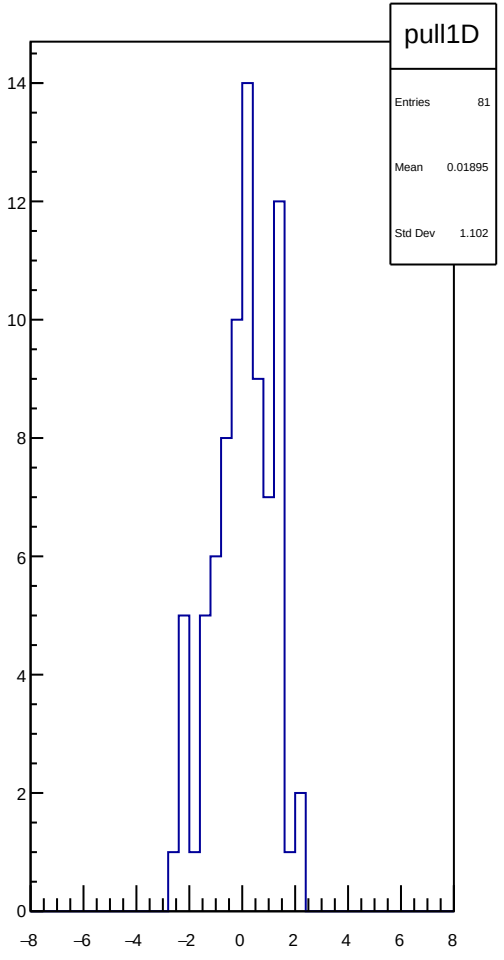

asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 255.8 / 80
p0 1300 ± 1.045
1360
1340
1320
1300
1280
1260

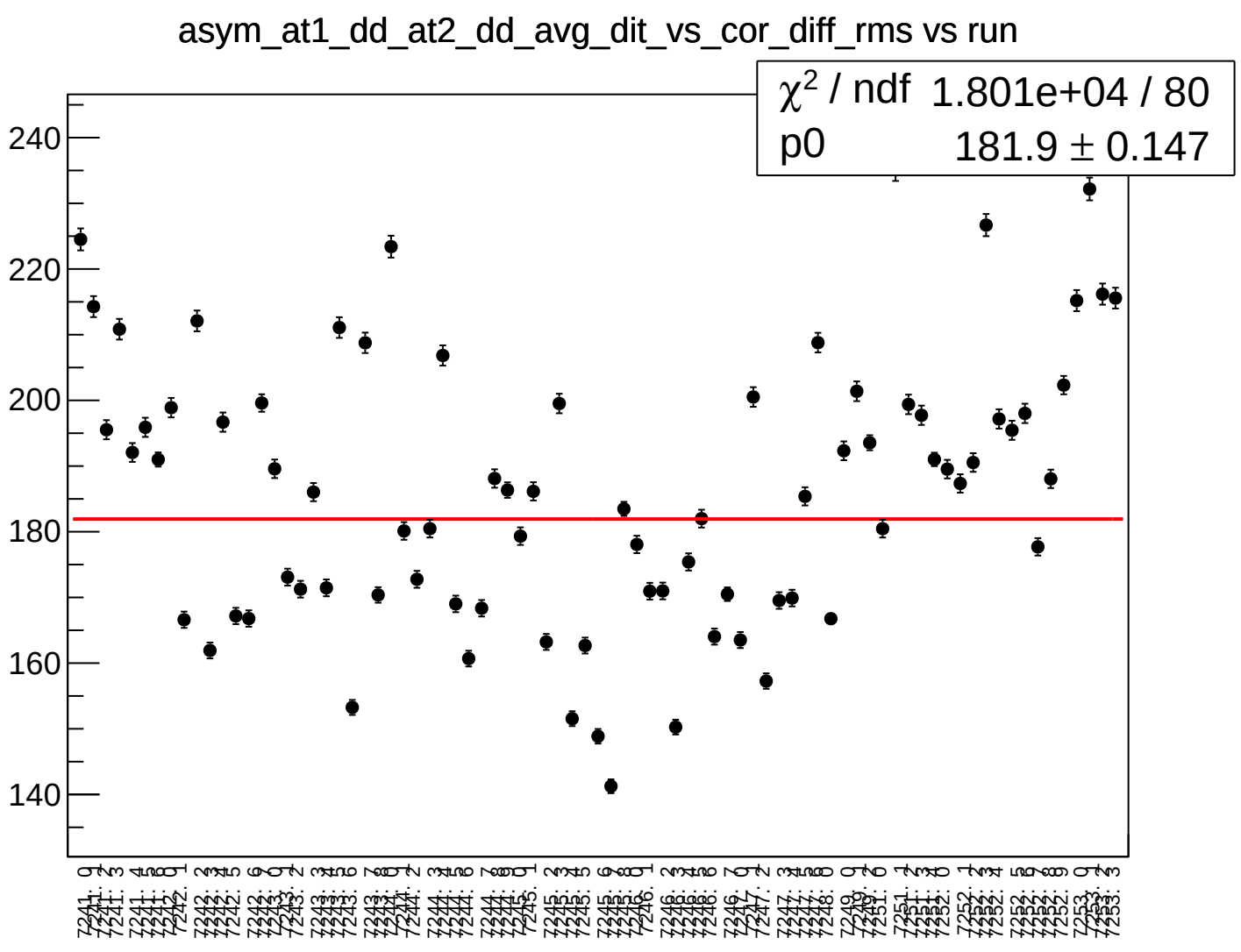

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 80.1 / 80
p0 −3.623e−15 ± 1.008e−14
0.01
0.005
0
−0.005
−0.01
pull
Entries 81
Mean 1.871
Std Dev 0
2
1
0
−1
−2

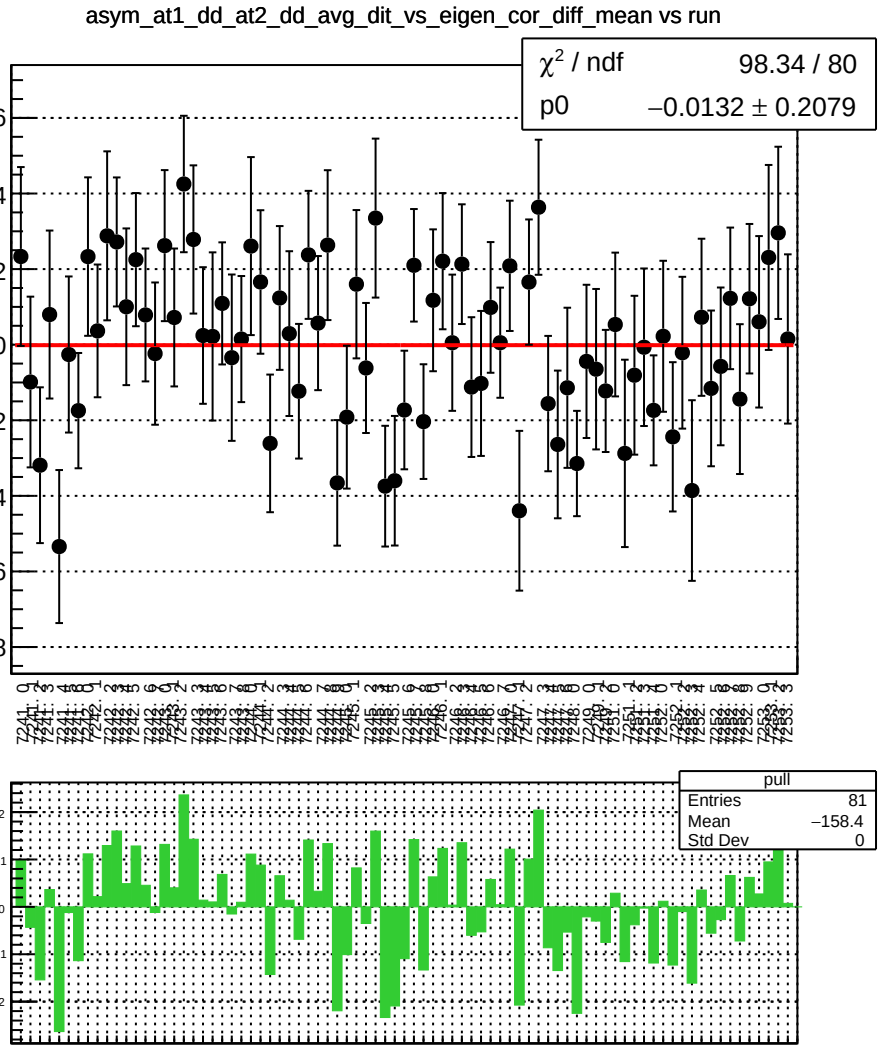

pull1D
Entries 81
Mean −0.08448
Std Dev 0.9908
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

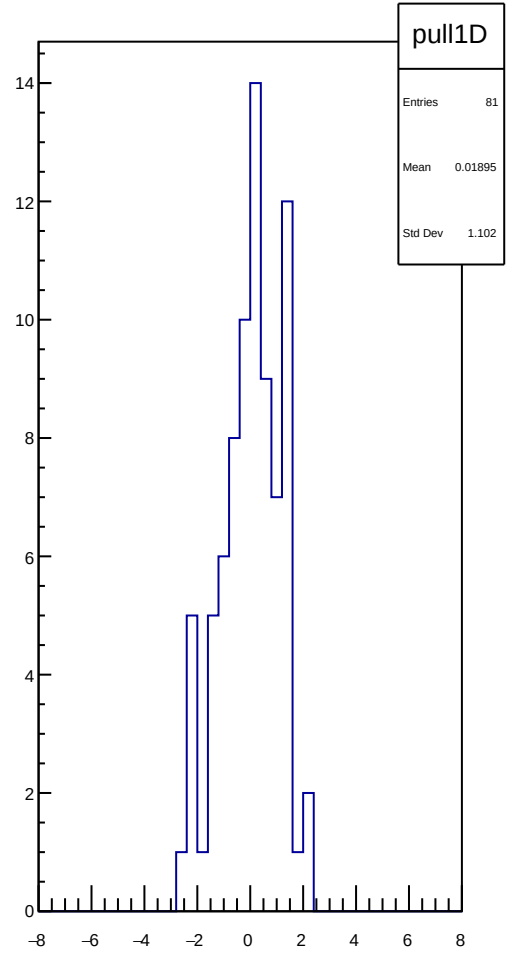

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.305e+06 / 80
p0 3.522e−12 ± 7.128e−15
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

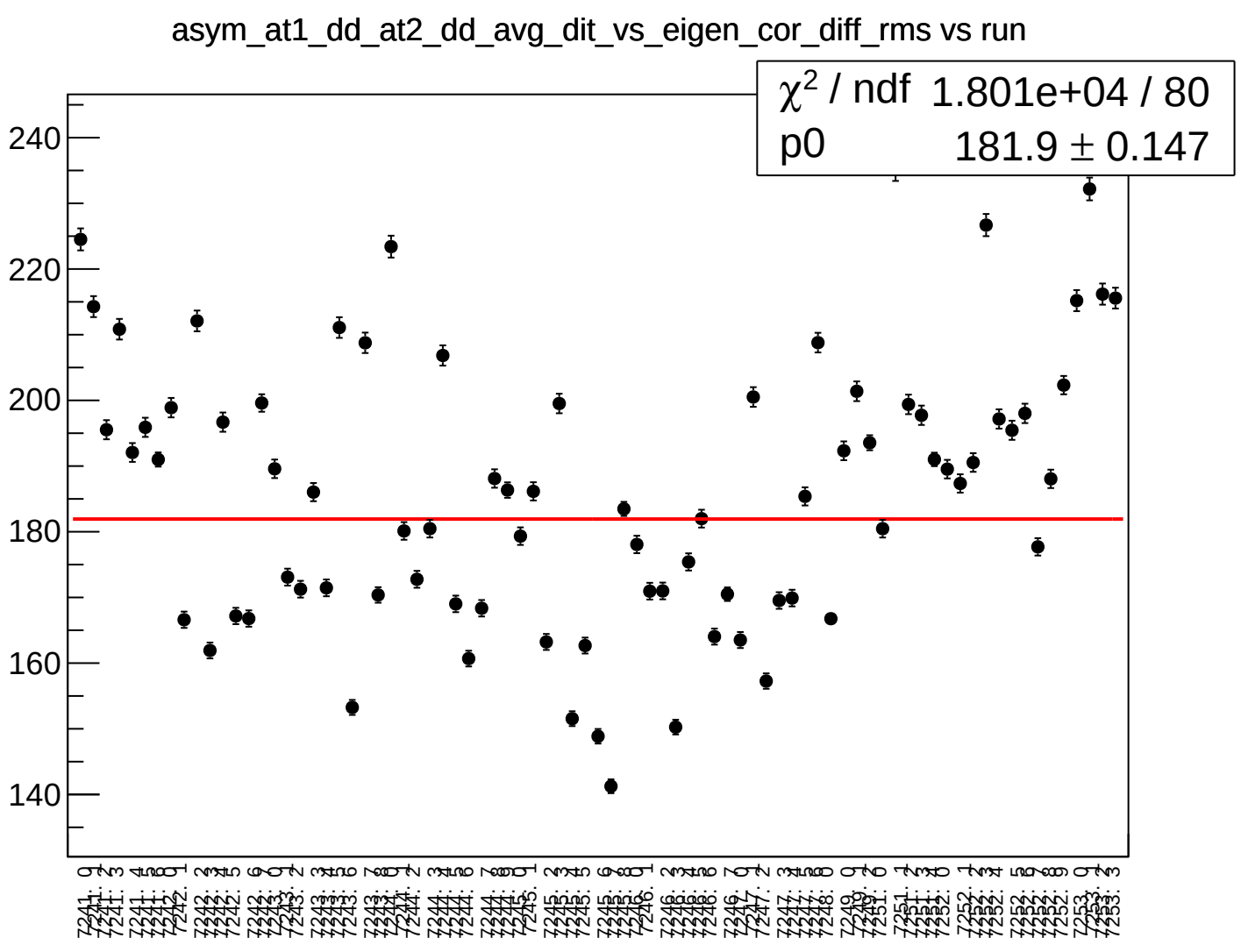

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 98.34 / 80
p0 −0.0132 ± 0.2079
pull
Entries 81
Mean −158.4
Std Dev 0

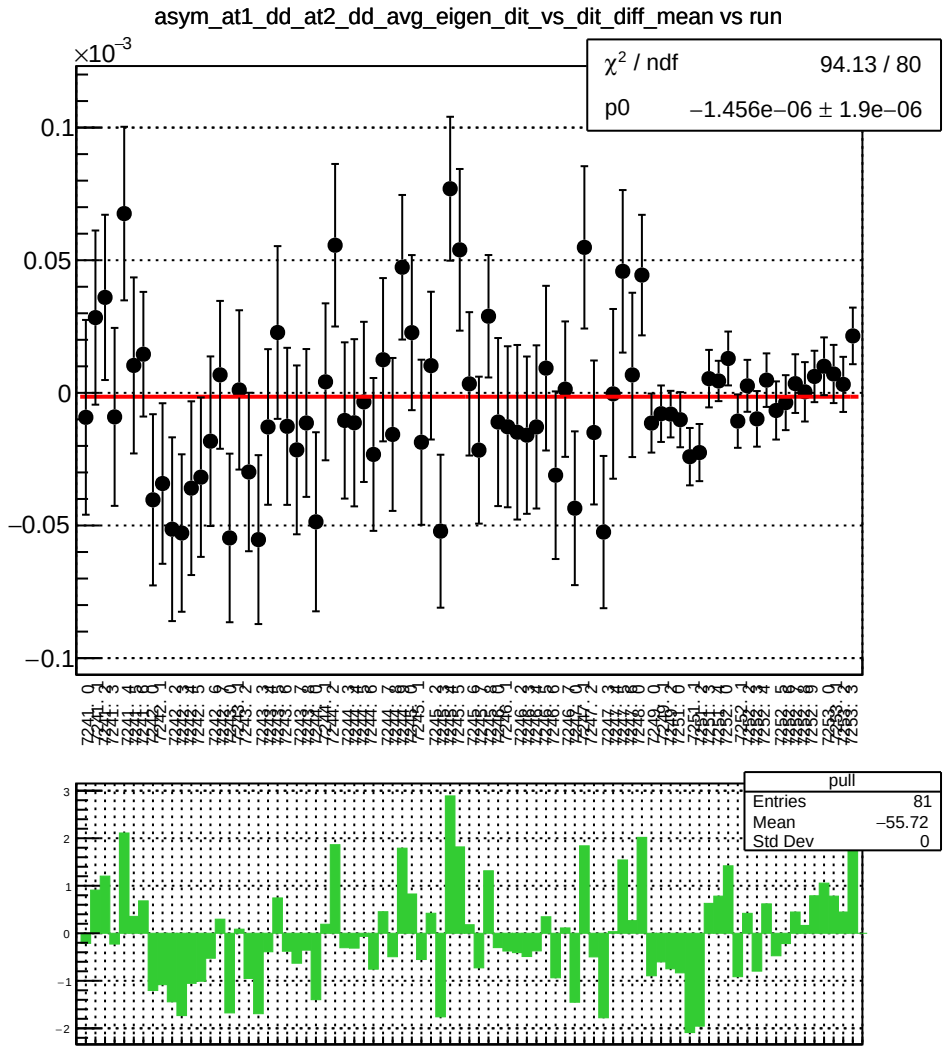

pull1D
Entries 81
Mean 0.01895
Std Dev 1.102

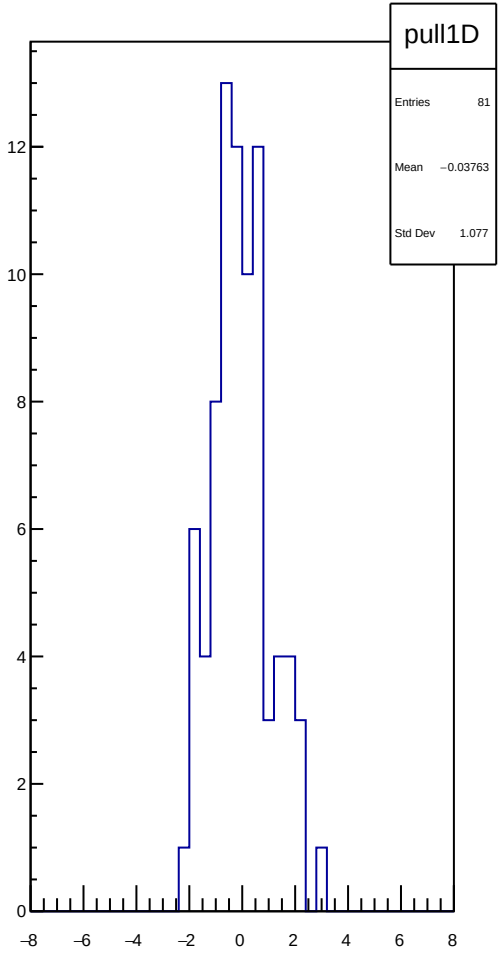

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.801e+04 / 80
p0 181.9 ± 0.147
240
220
200
180
160
140

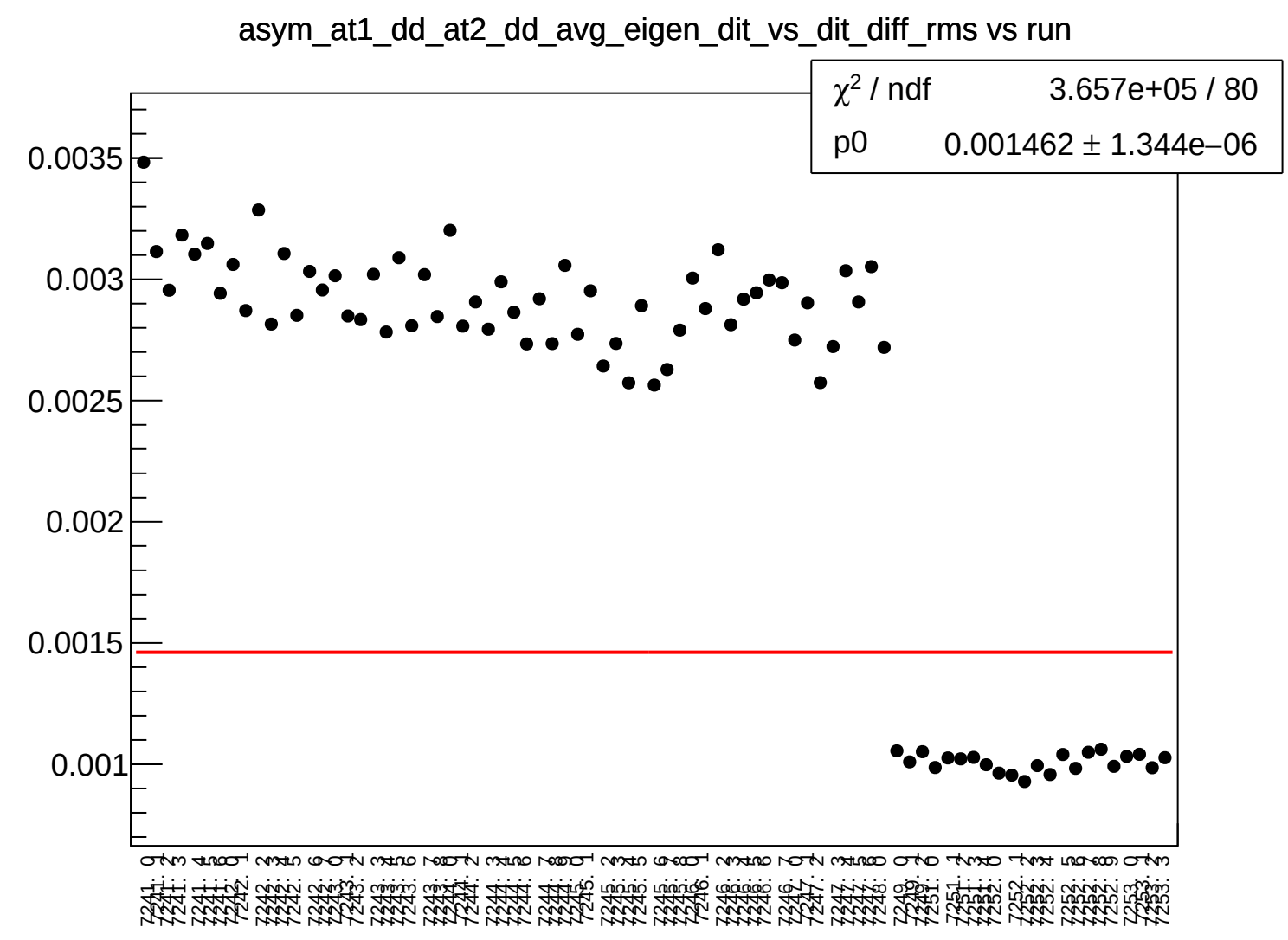

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.34 / 80
p0 −0.0132 ± 0.2079
pull
Entries 81
Mean −158.4
Std Dev 0

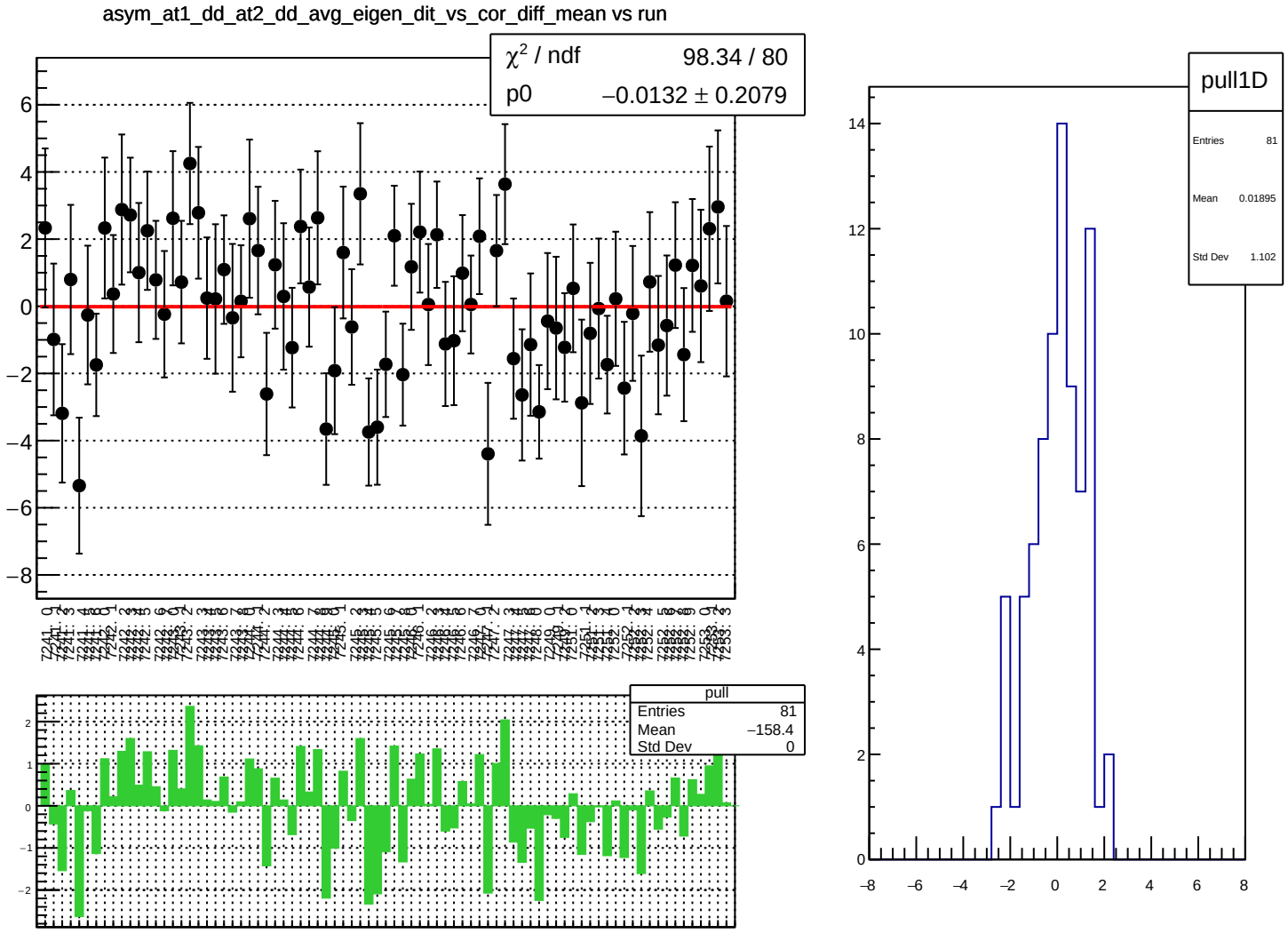

pull1D
Entries 81
Mean 0.01895
Std Dev 1.102

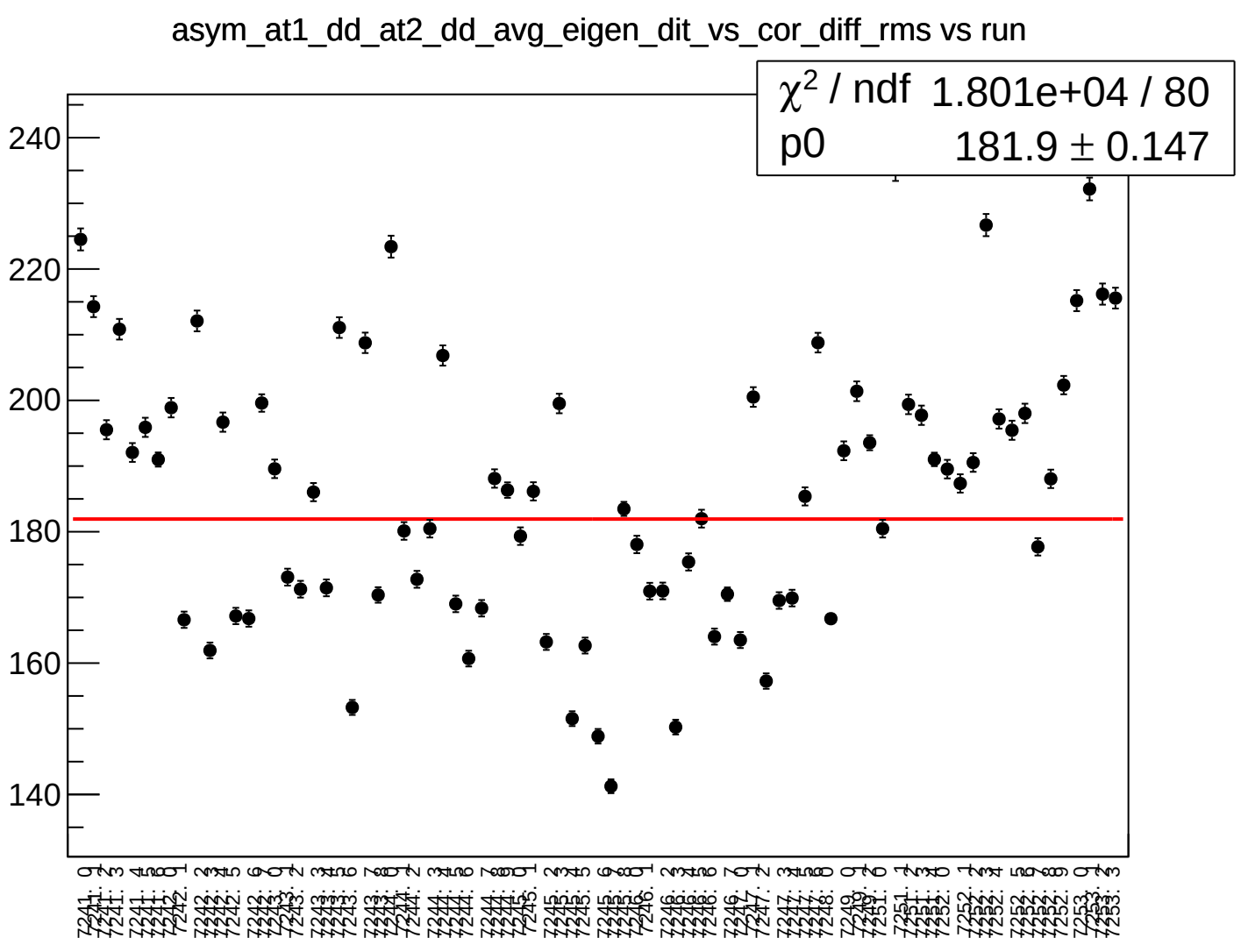

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.801e+04 / 80
p0 181.9 ± 0.147
240
220
200
180
160
140

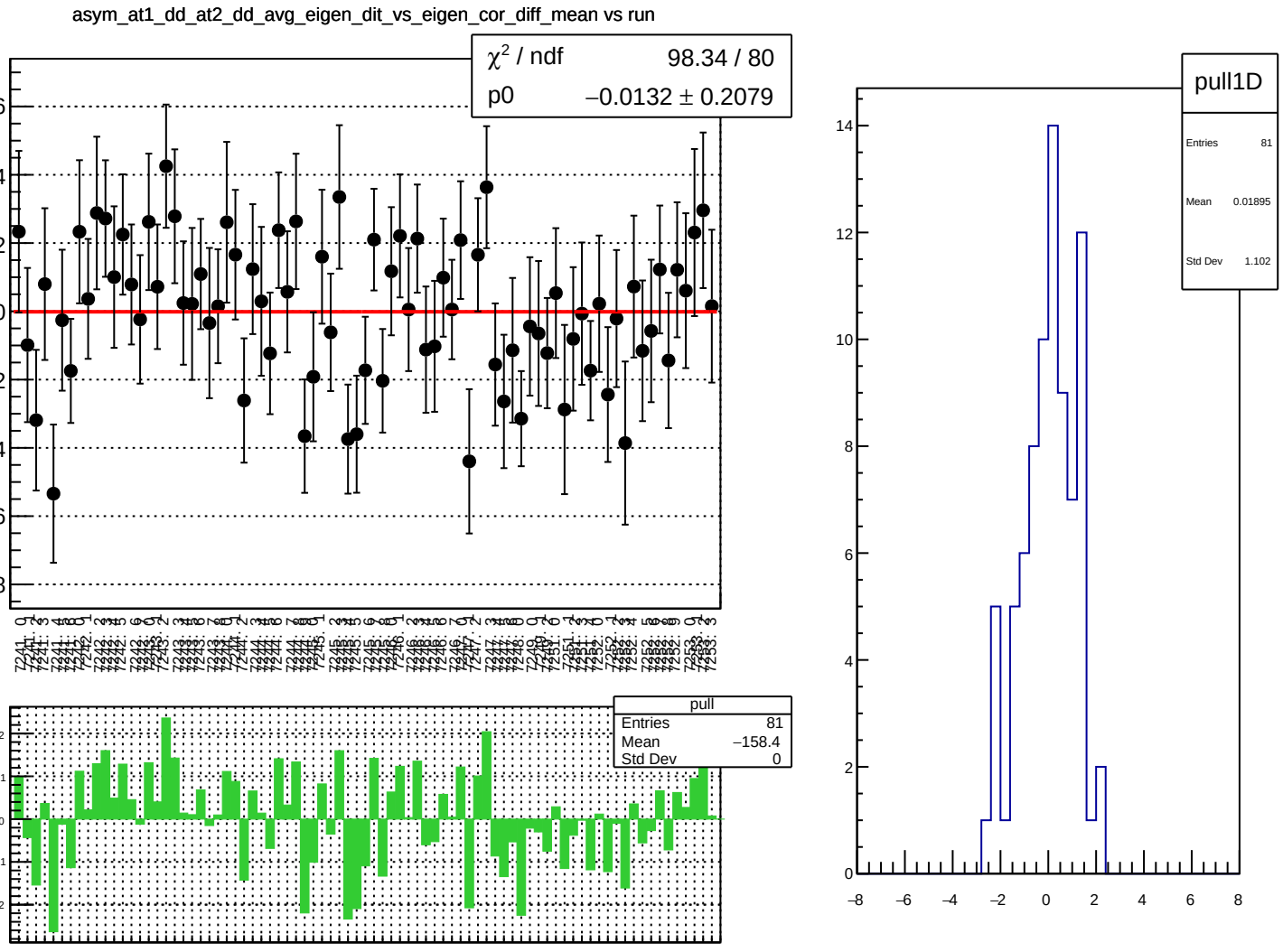

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.13 / 80
p0 −1.456e−06 ± 1.9e−06
pull
Entries 81
Mean −55.72
Std Dev 0

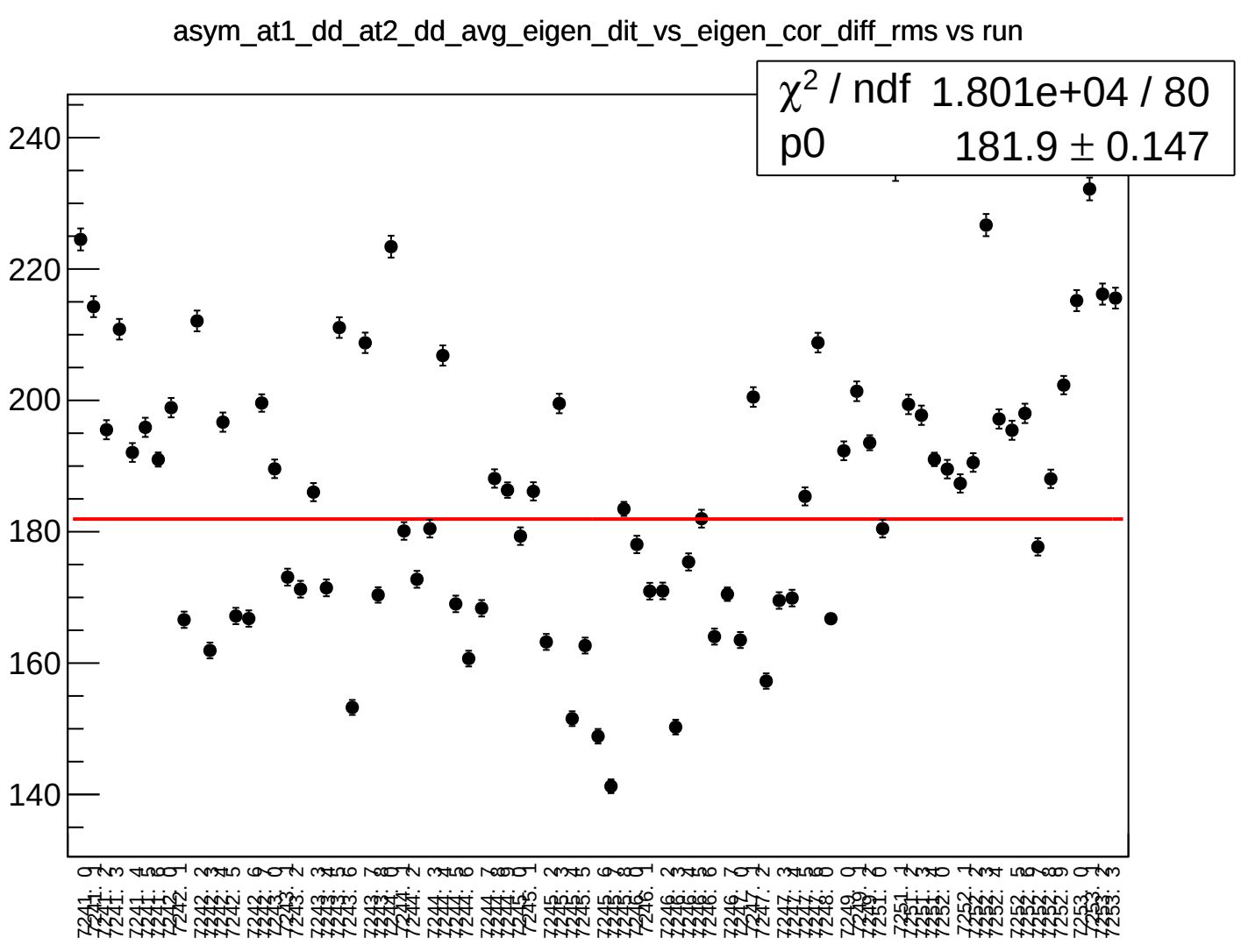

pull1D
Entries 81
Mean −0.03763
Std Dev 1.077

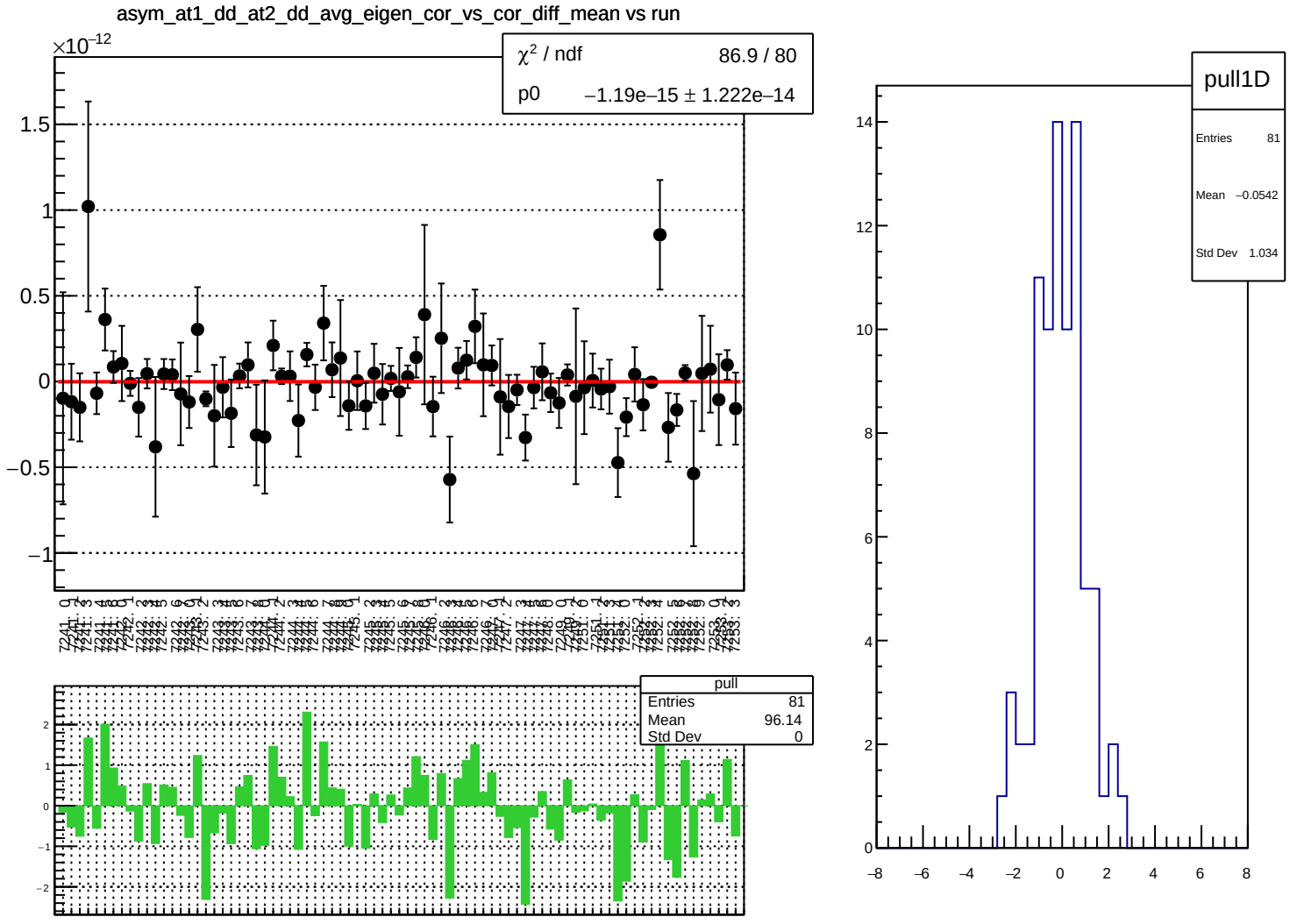

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.657e+05 / 80
p0 0.001462 ± 1.344e−06
0.0035
0.003
0.0025
0.002
0.0015
0.001

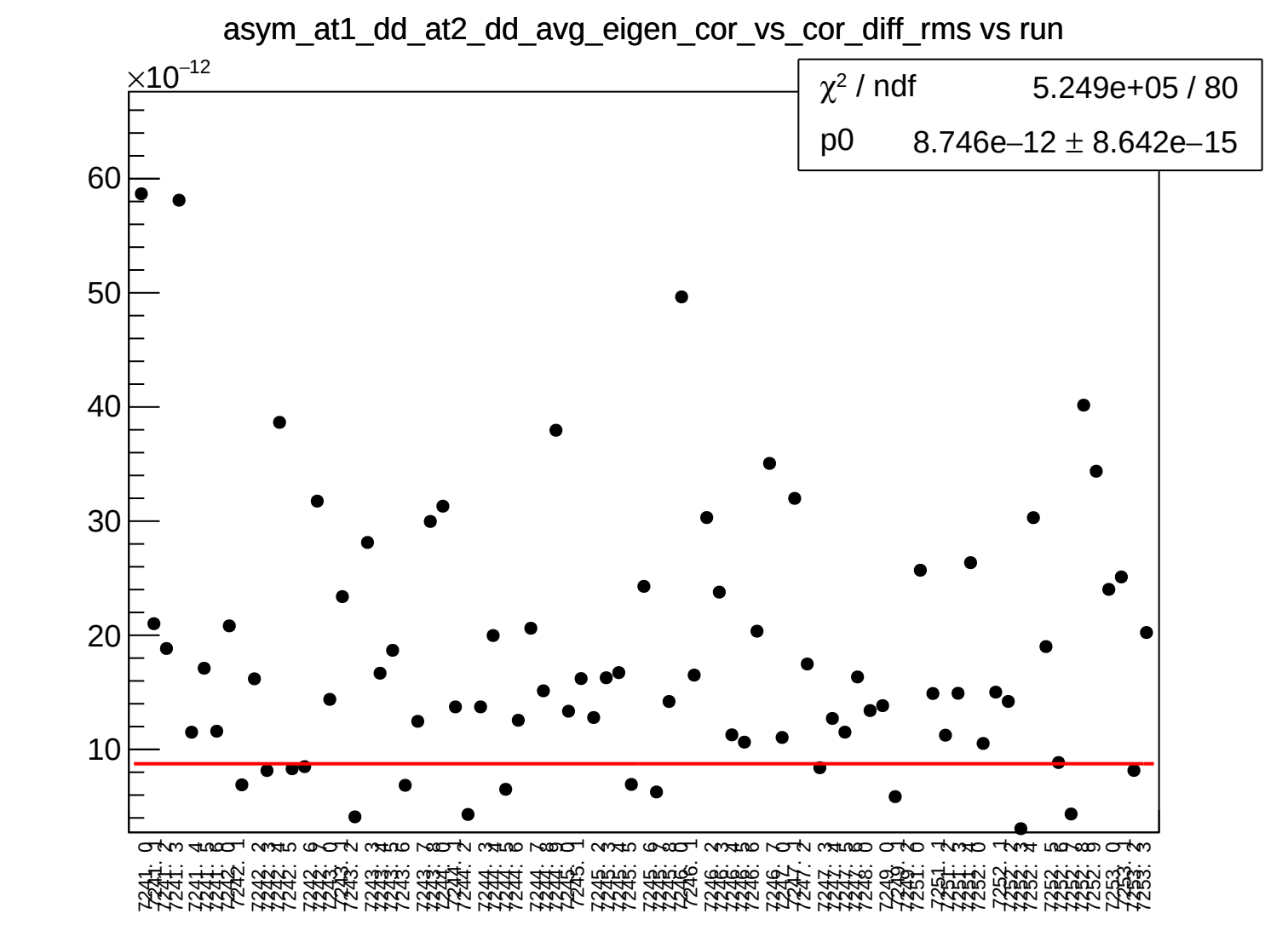

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.34 / 80
p0 −0.0132 ± 0.2079
pull
Entries 81
Mean −158.4
Std Dev 0
pull1D
Entries 81
Mean 0.01895
Std Dev 1.102

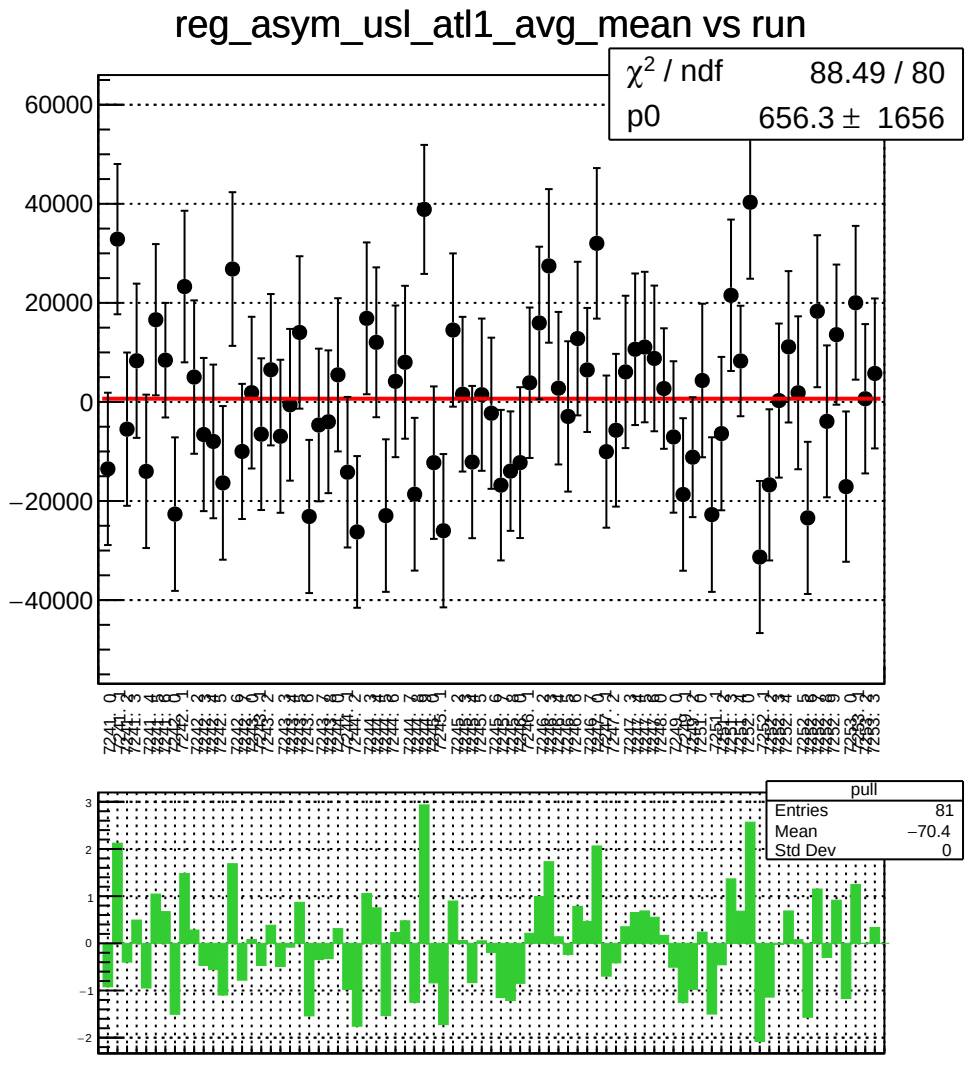

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.801e+04 / 80
p0 181.9 ± 0.147
240
220
200
180
160
140

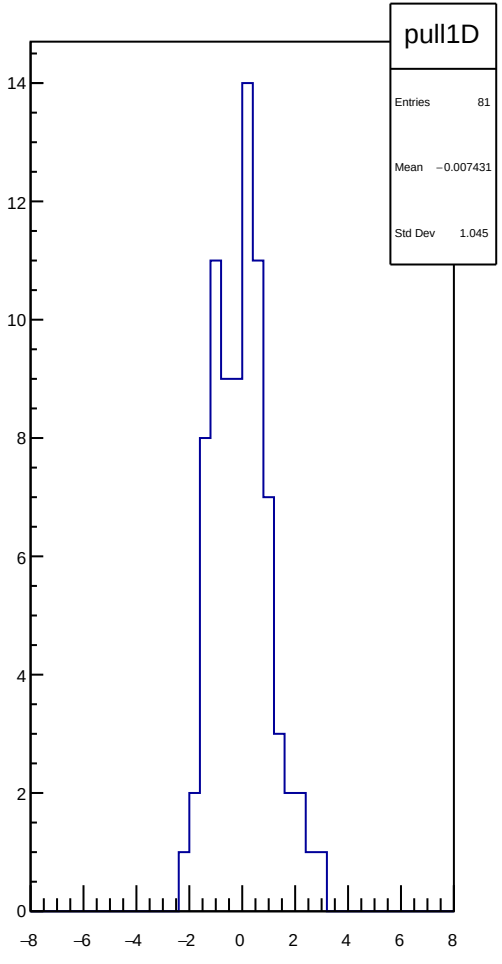

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.34 / 80
p0 −0.0132 ± 0.2079
pull
Entries 81
Mean −158.4
Std Dev 0
pull1D
Entries 81
Mean 0.01895
Std Dev 1.102

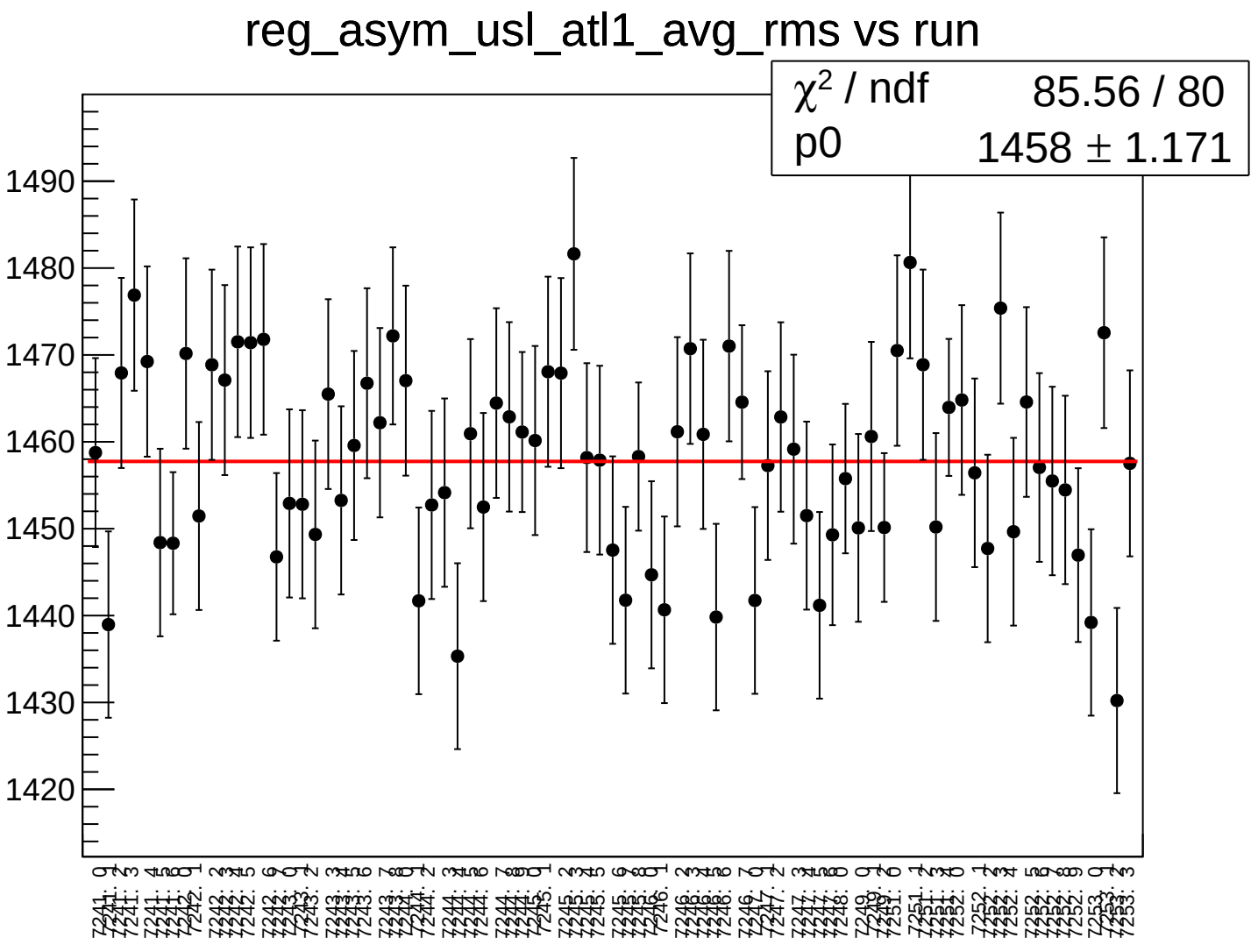

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.801e+04 / 80
p0 181.9 ± 0.147
240
220
200
180
160
140

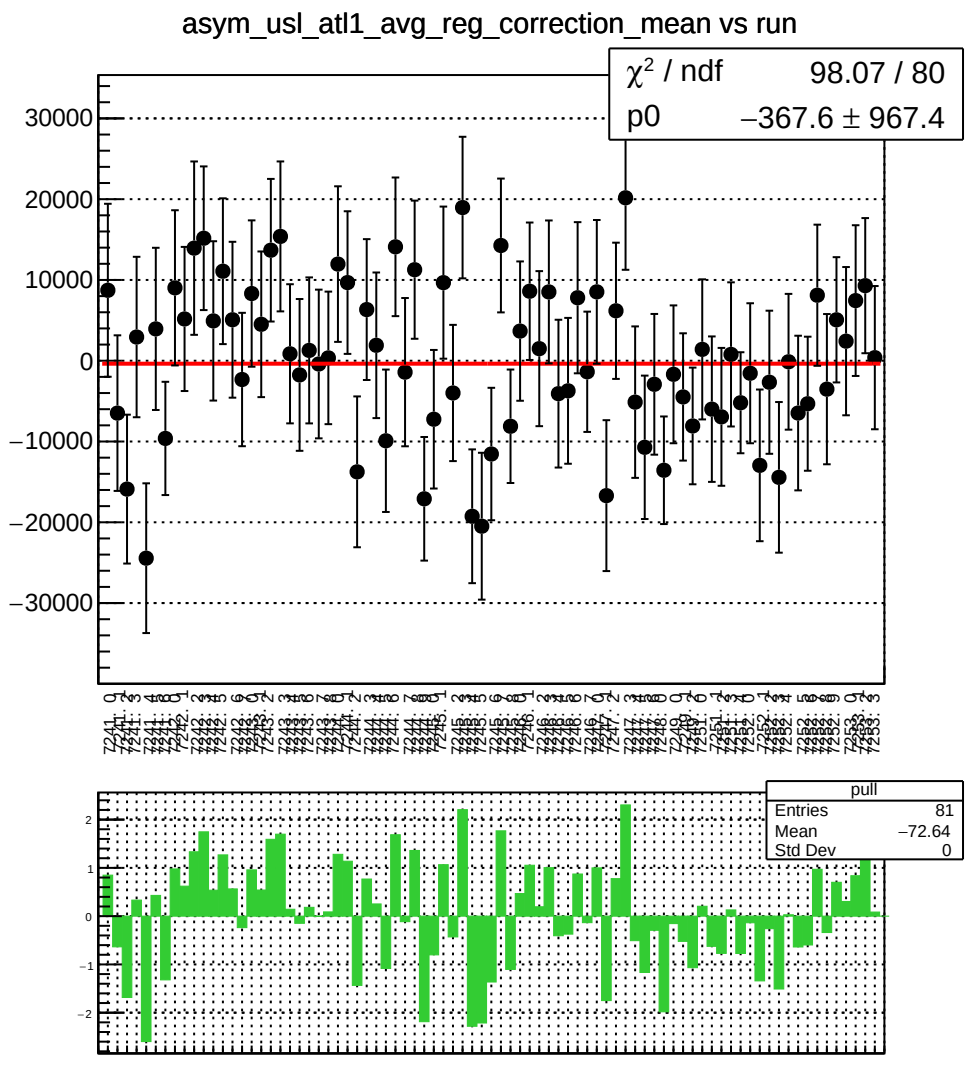

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.9 / 80
p0 −1.19e−15 ± 1.222e−14
pull
Entries 81
Mean 96.14
Std Dev 0
pull1D
Entries 81
Mean −0.0542
Std Dev 1.034

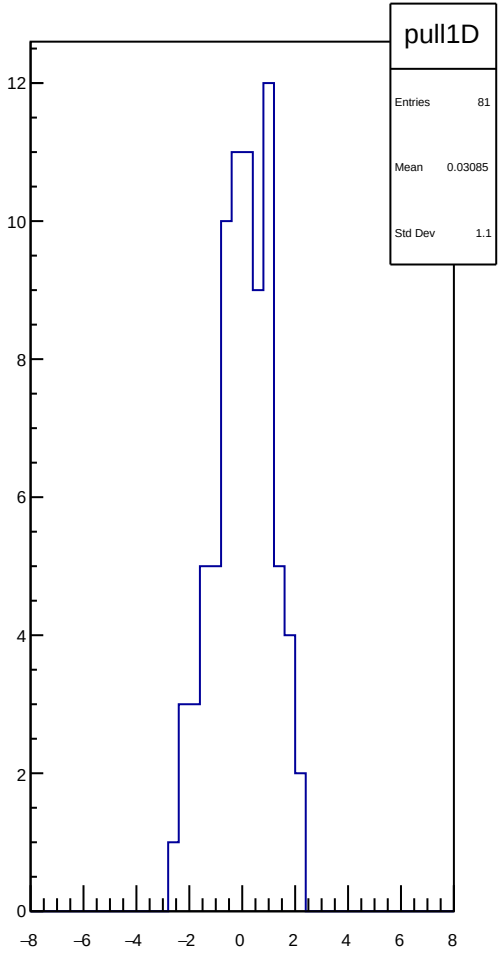

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.249e+05 / 80
p0 8.746e−12 ± 8.642e−15
60
50
40
30
20
10


reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 88.49 / 80
p0 656.3 ± 1656
60000
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −70.4
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 81
Mean −0.007431
Std Dev 1.045
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 85.56 / 80
p0 1458 ± 1.171
1490
1480
1470
1460
1450
1440
1430
1420


asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 98.07 / 80
p0 −367.6 ± 967.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean −72.64
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 81
Mean 0.03085
Std Dev 1.1
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10
8
6
4
2
0
−8
−6
−4
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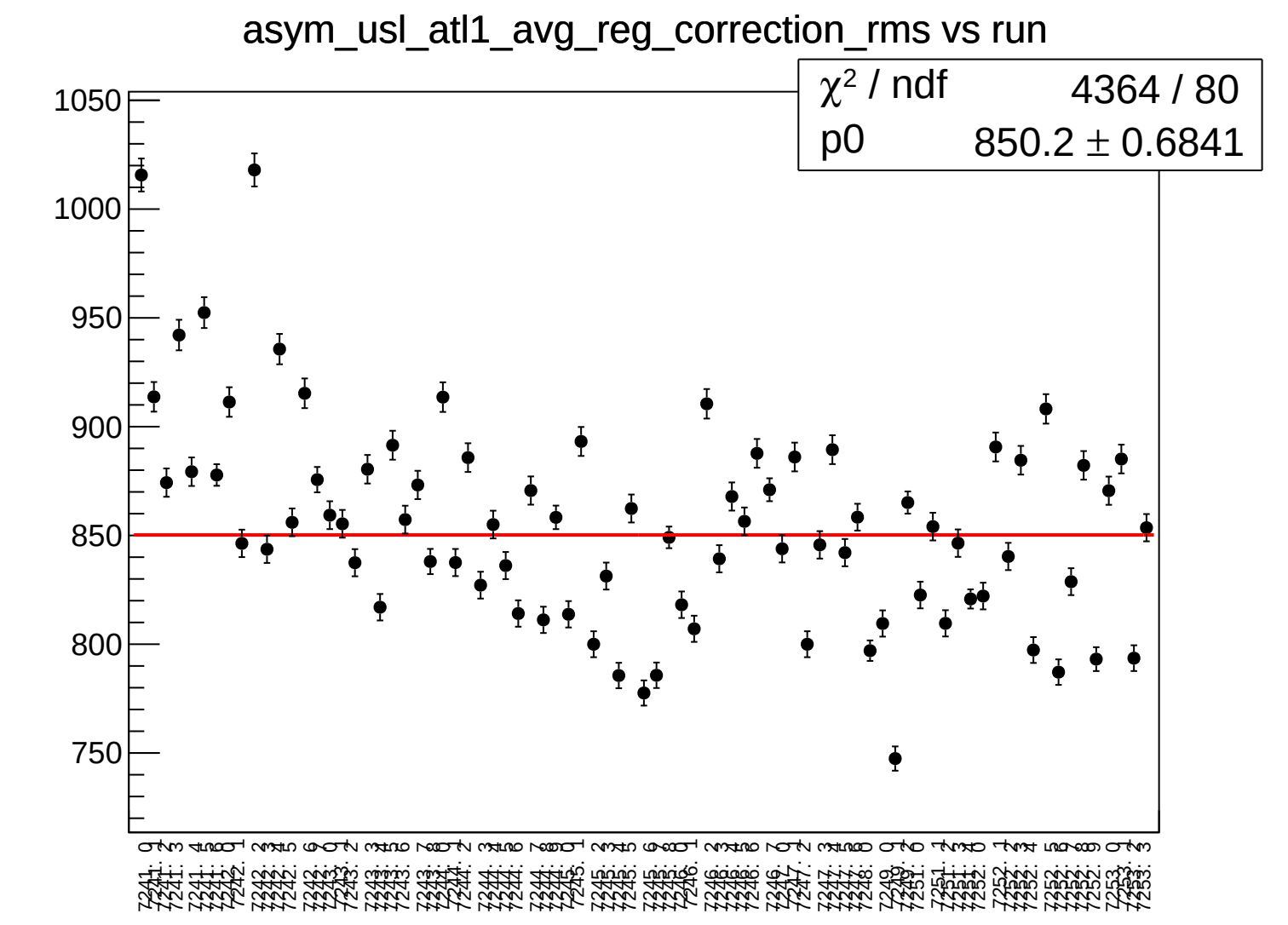
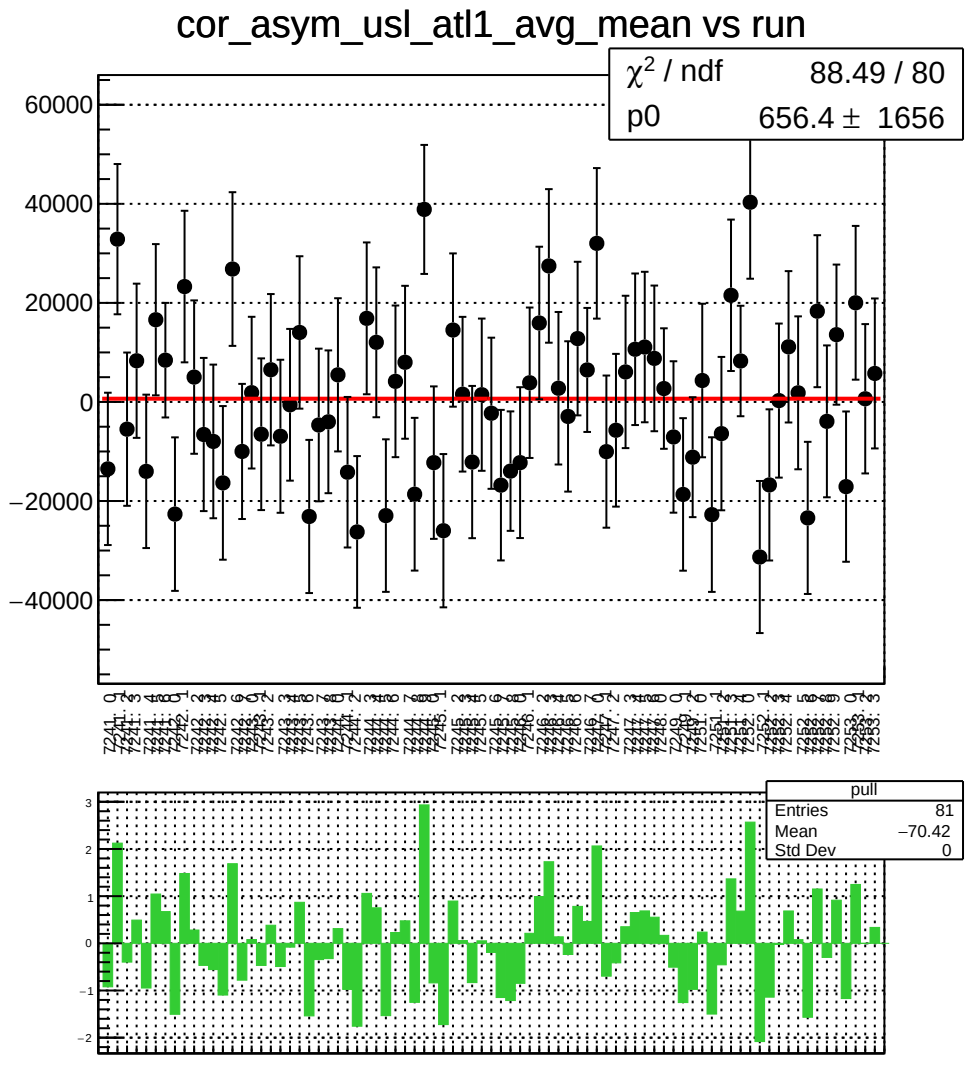
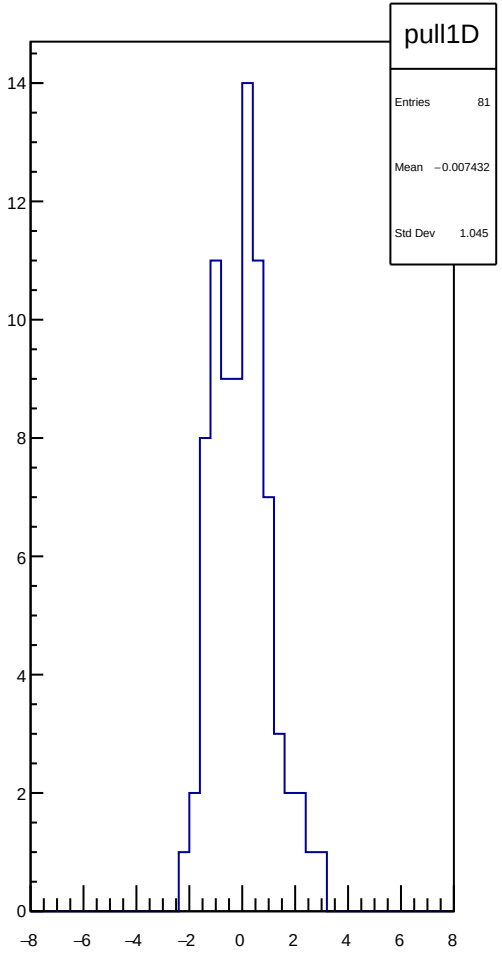
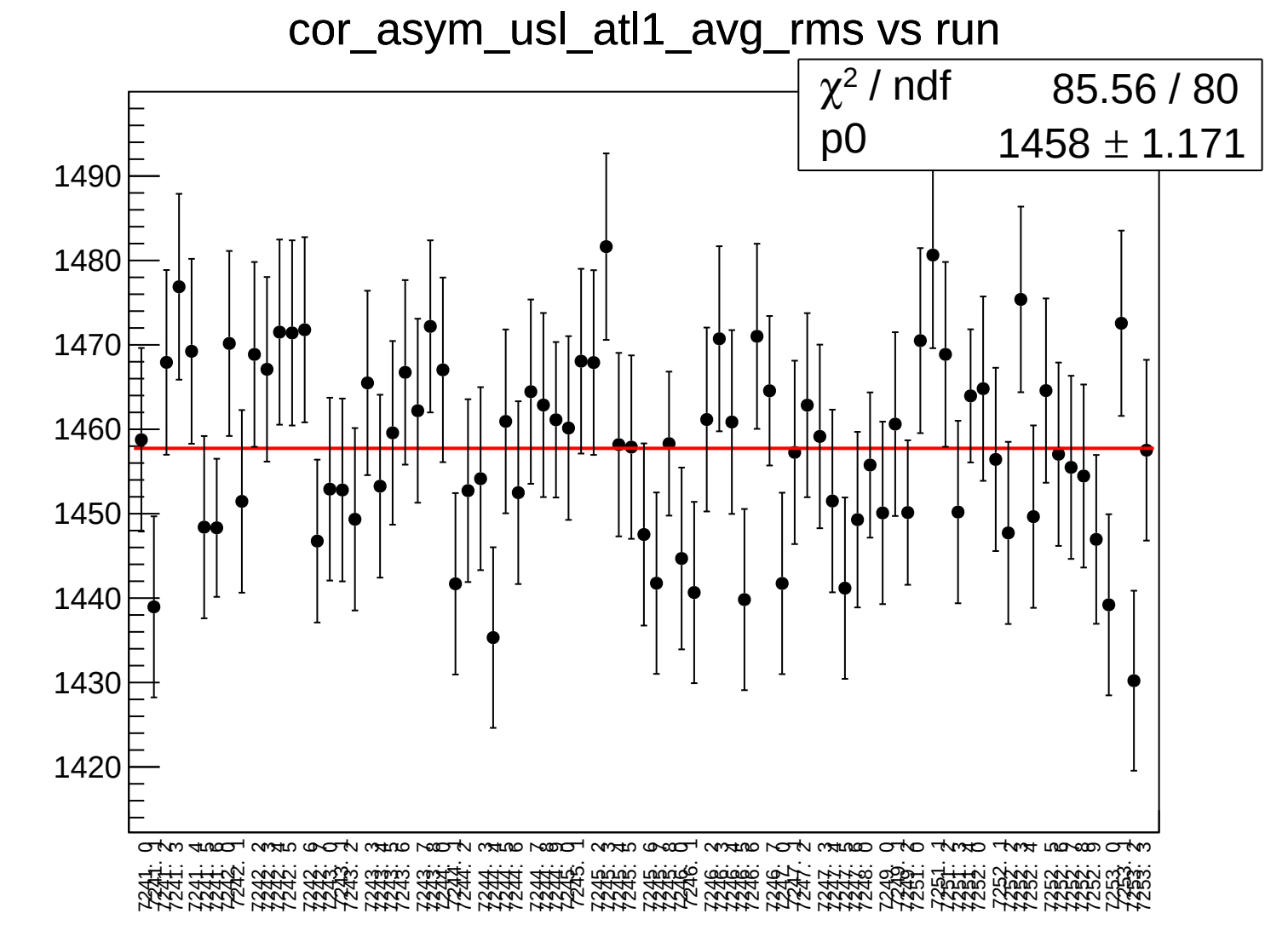
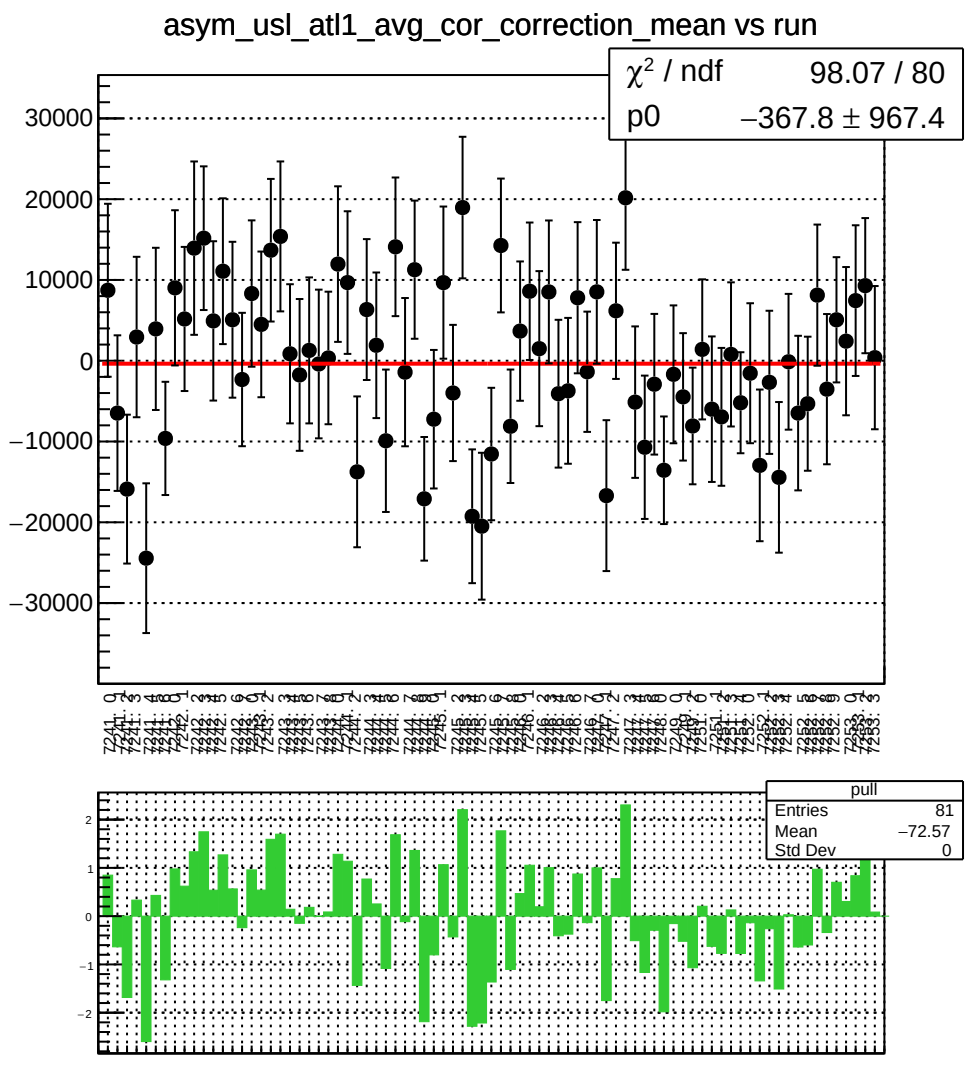
2
4
6
8

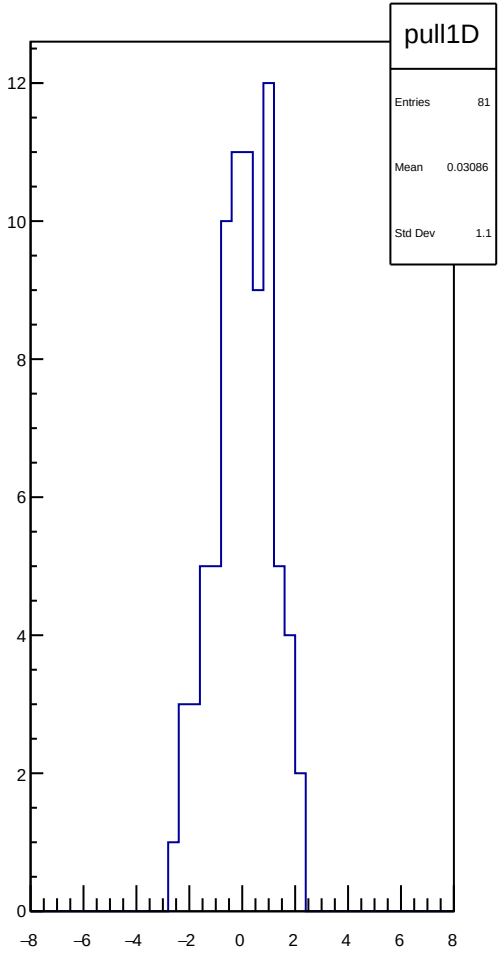

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 4364 / 80
p0 850.2 ± 0.6841
1050
1000
950
900
850
800
750

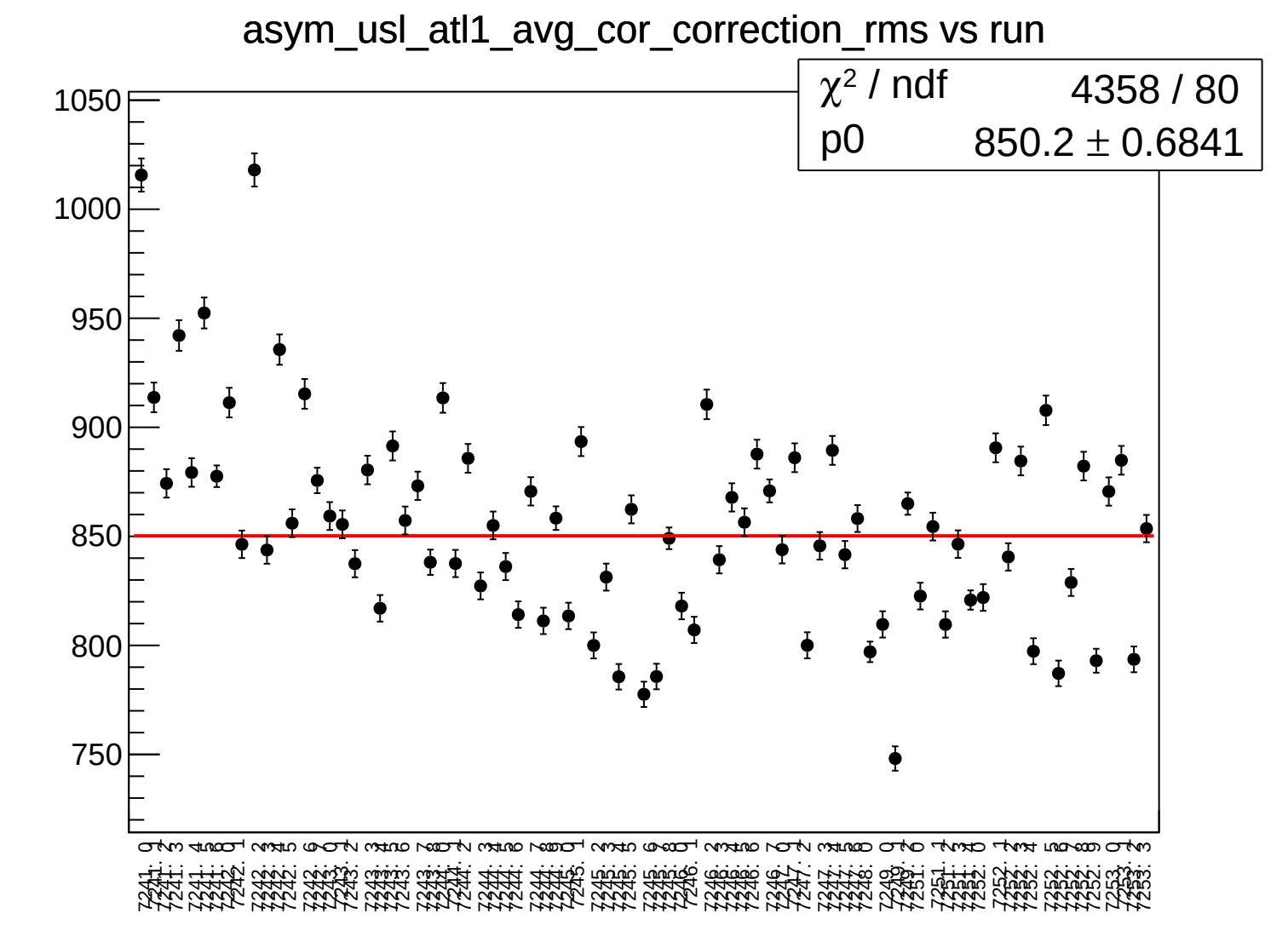

cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 88.49 / 80
p0 656.4 ± 1656
60000
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −70.42
Std Dev 0
3
2
1
0
−1
−2

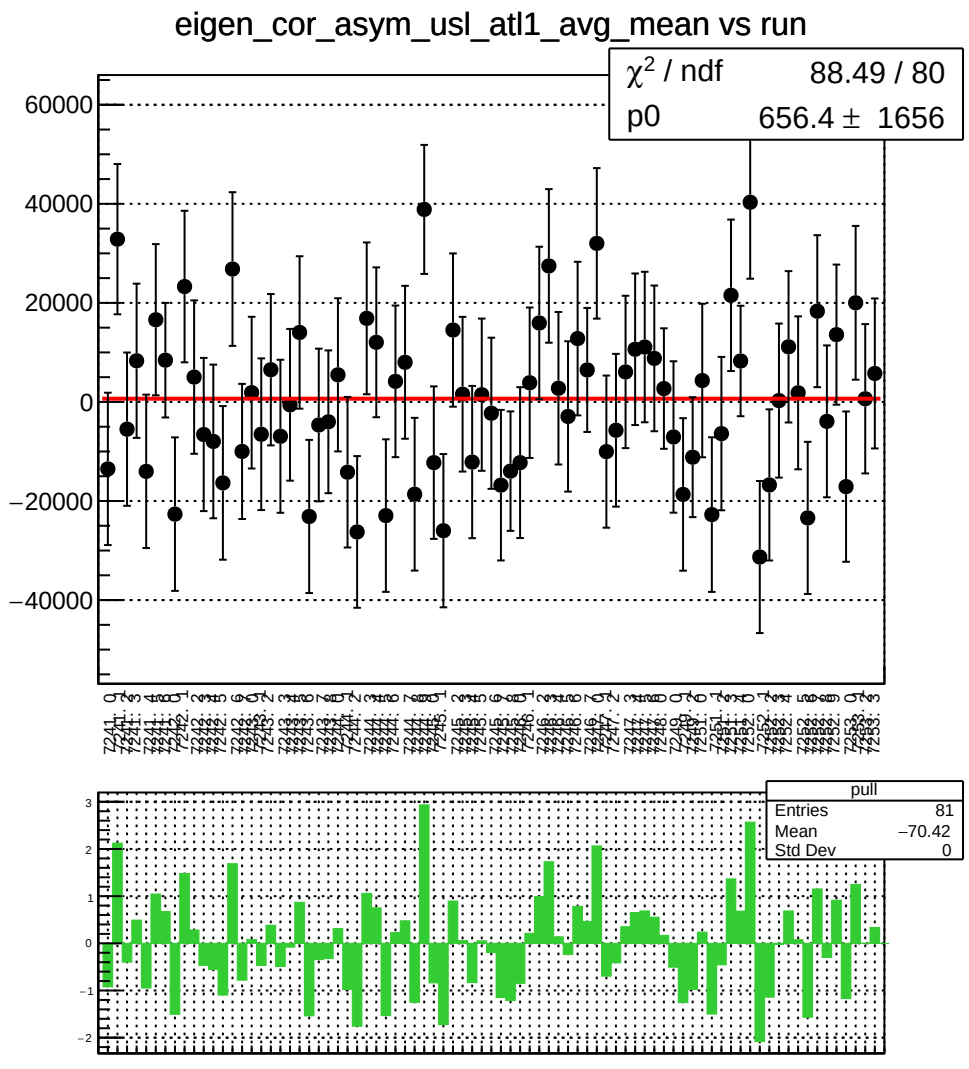

pull1D
Entries 81
Mean −0.007432
Std Dev 1.045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

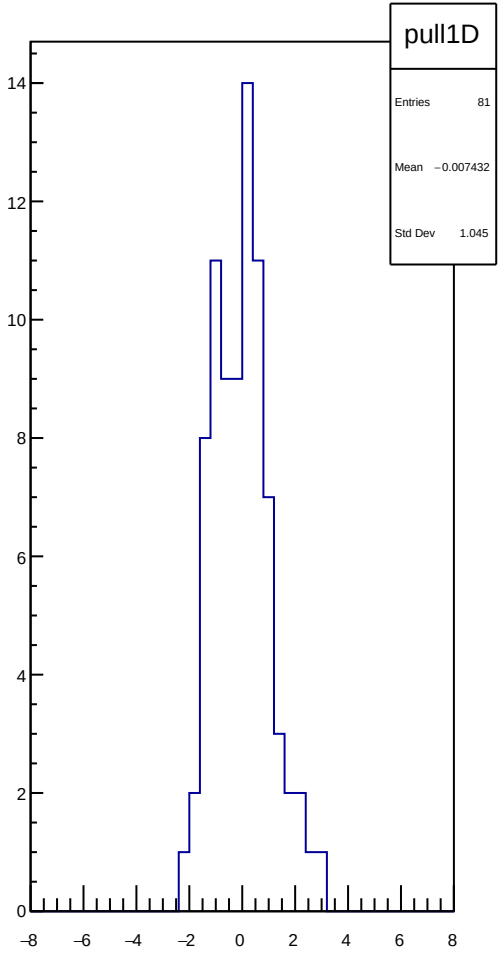

cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 85.56 / 80
p0 1458 ± 1.171
1490
1480
1470
1460
1450
1440
1430
1420

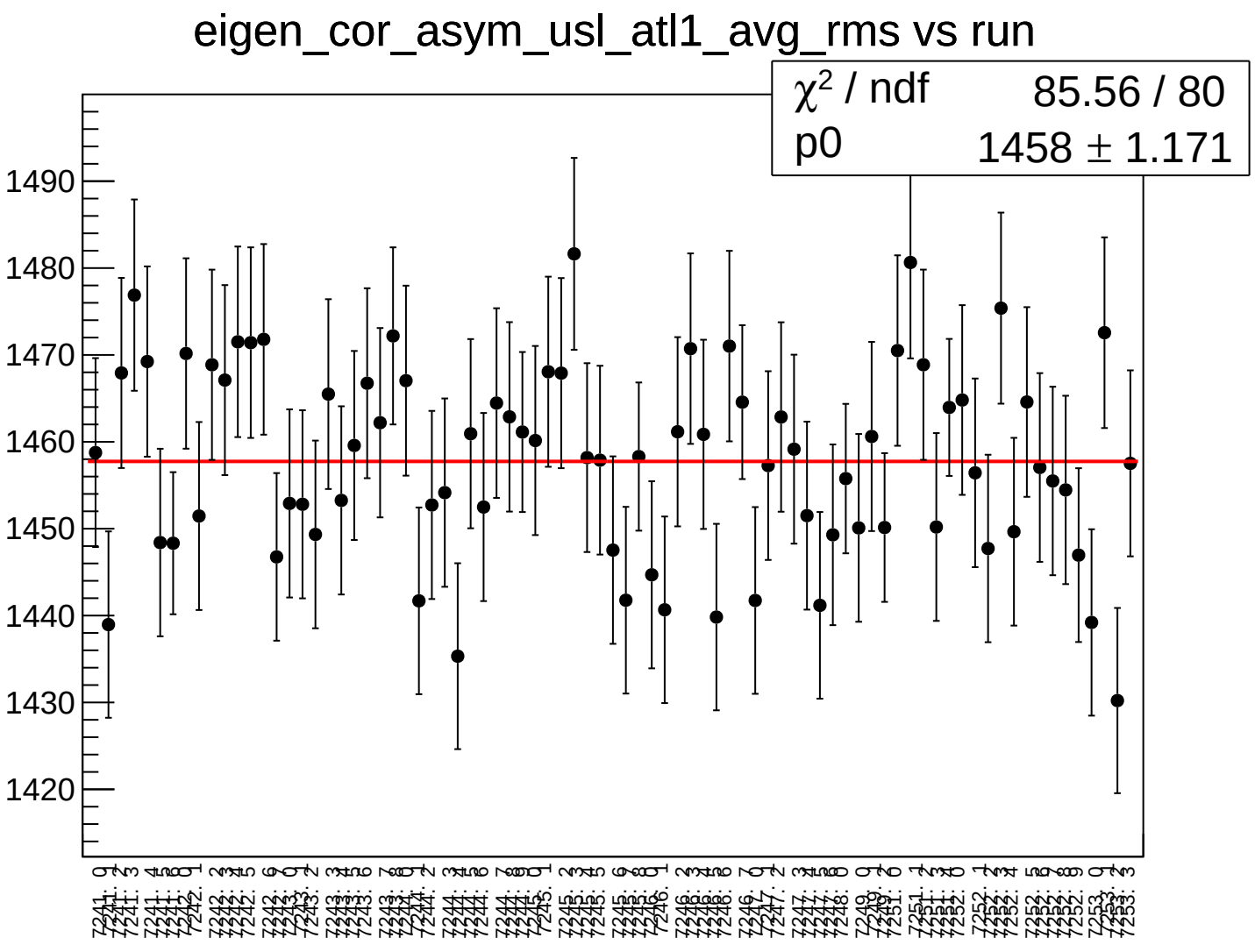

asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 98.07 / 80
p0 −367.8 ± 967.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean −72.57
Std Dev 0
2
1
0
−1
−2

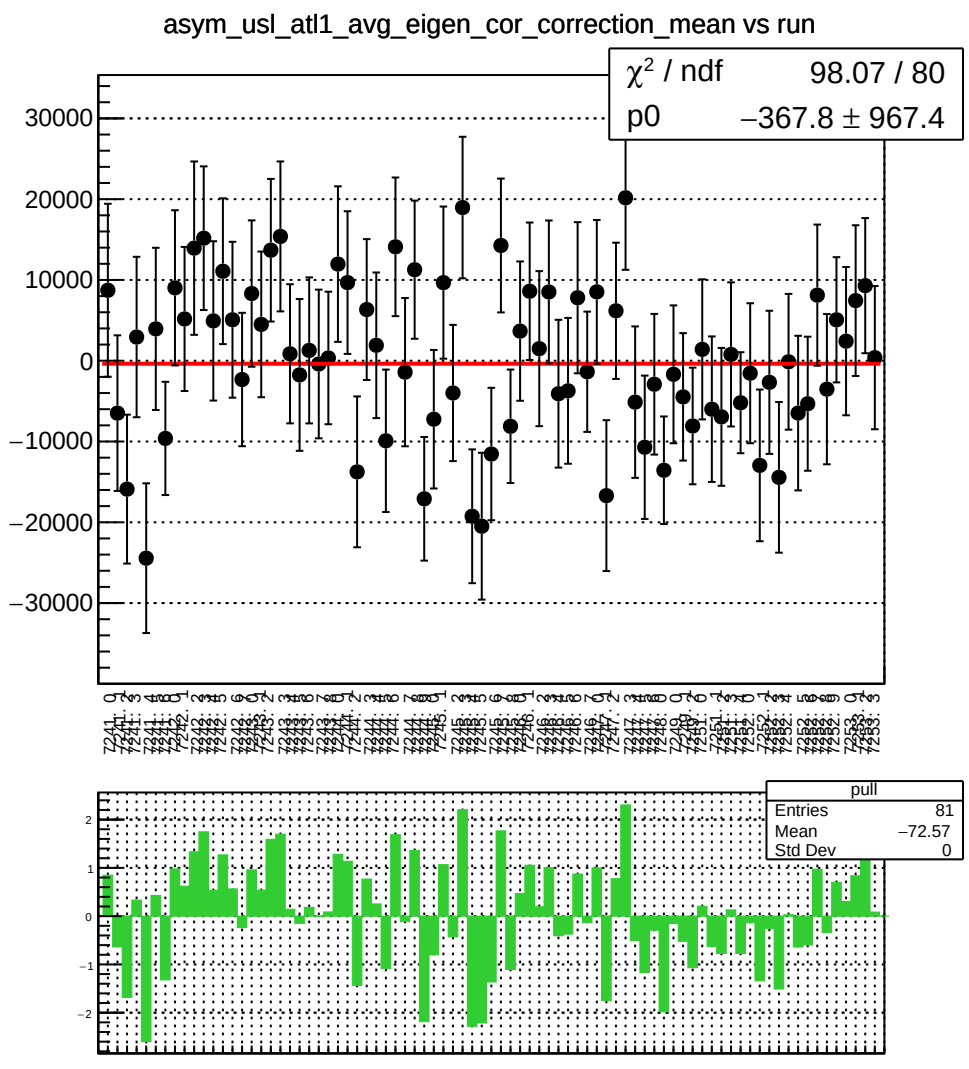

pull1D
Entries 81
Mean 0.03086
Std Dev 1.1
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

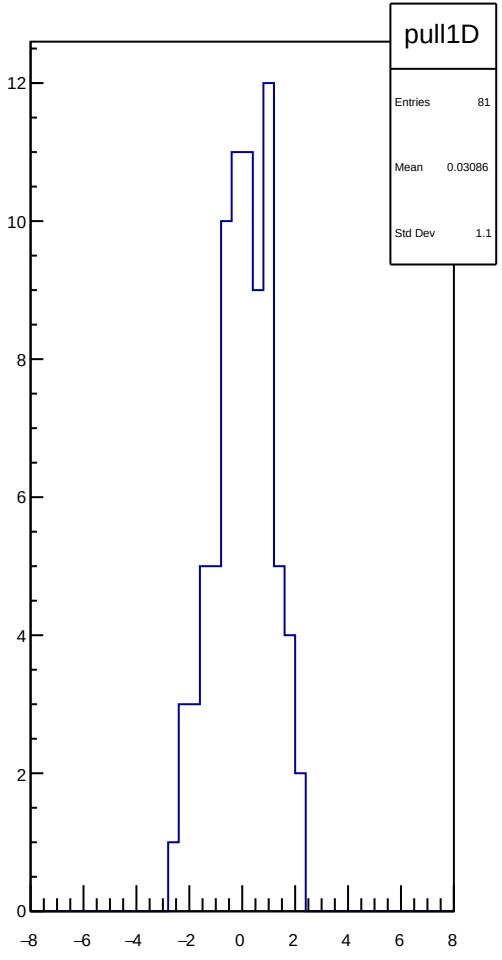

asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 4358 / 80
p0 850.2 ± 0.6841
1050
1000
950
900
850
800
750


eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 88.49 / 80
p0 656.4 ± 1656
60000
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −70.42
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 81
Mean −0.007432
Std Dev 1.045
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 85.56 / 80
p0 1458 ± 1.171
1490
1480
1470
1460
1450
1440
1430
1420


asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 98.07 / 80
p0 −367.8 ± 967.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean −72.57
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 81
Mean 0.03086
Std Dev 1.1
12
10
8
6
4
2
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−8
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−4
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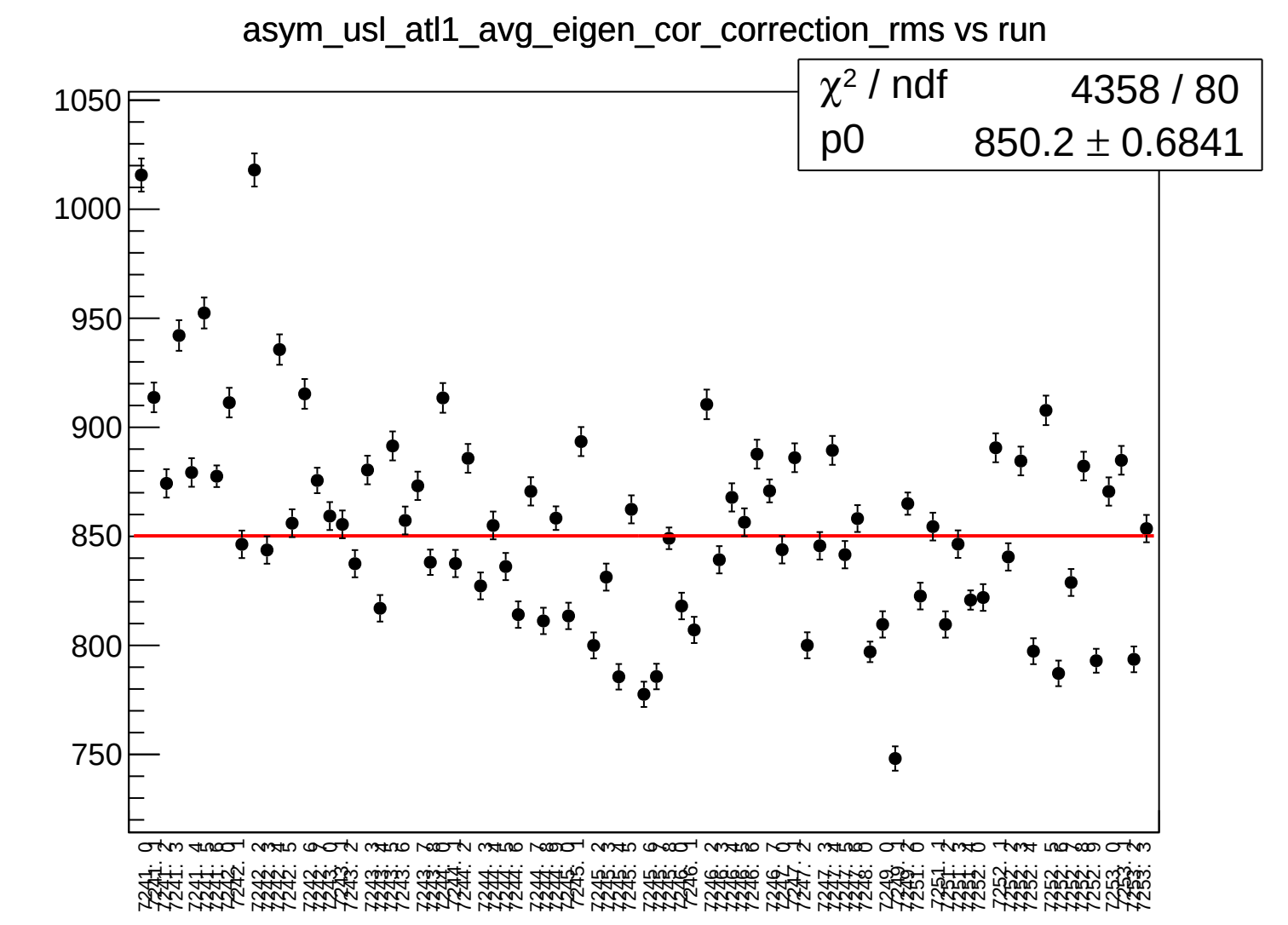
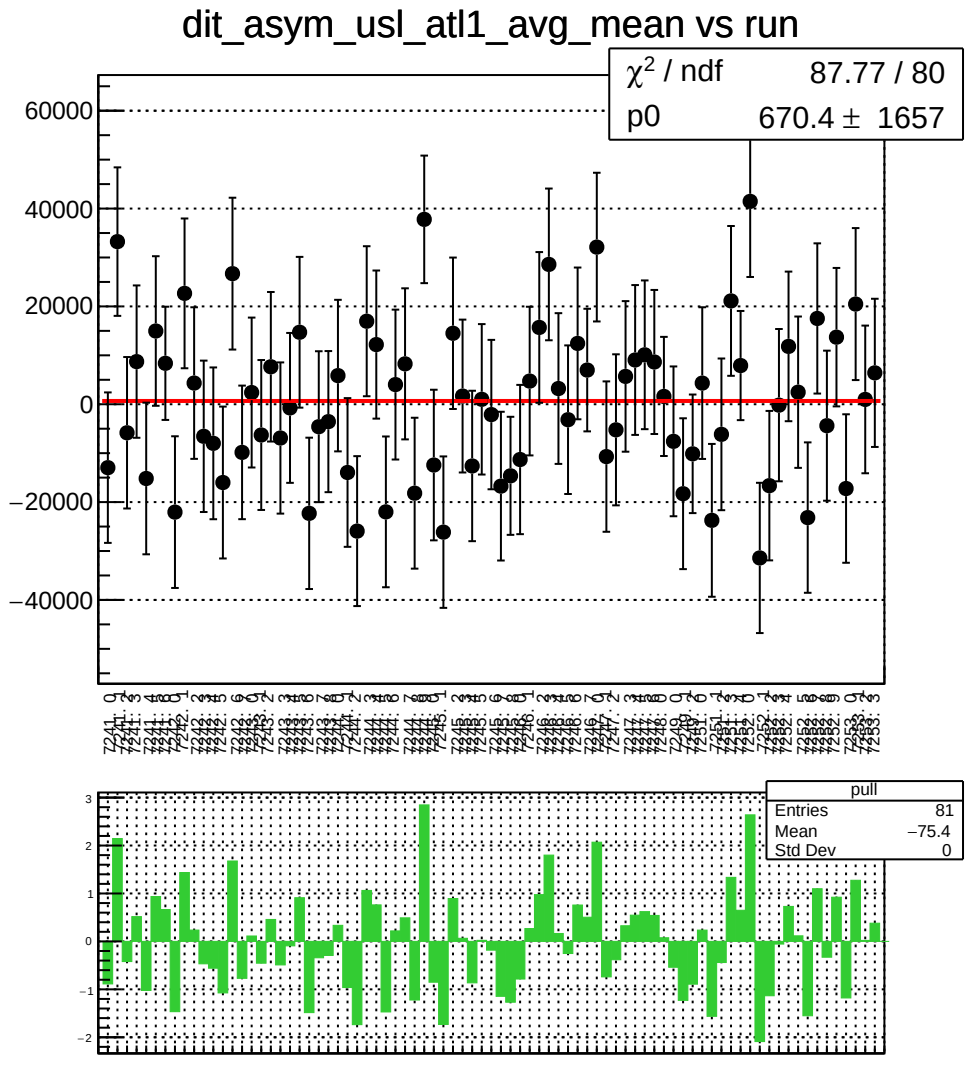
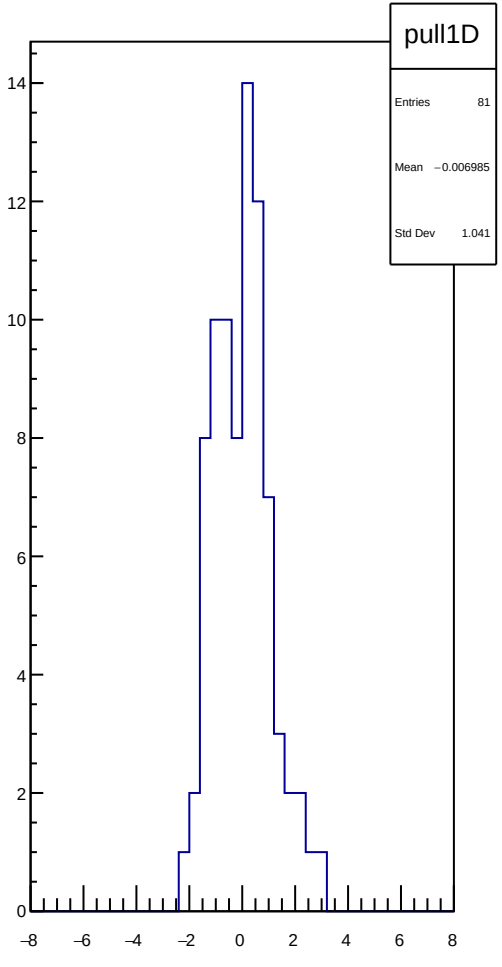
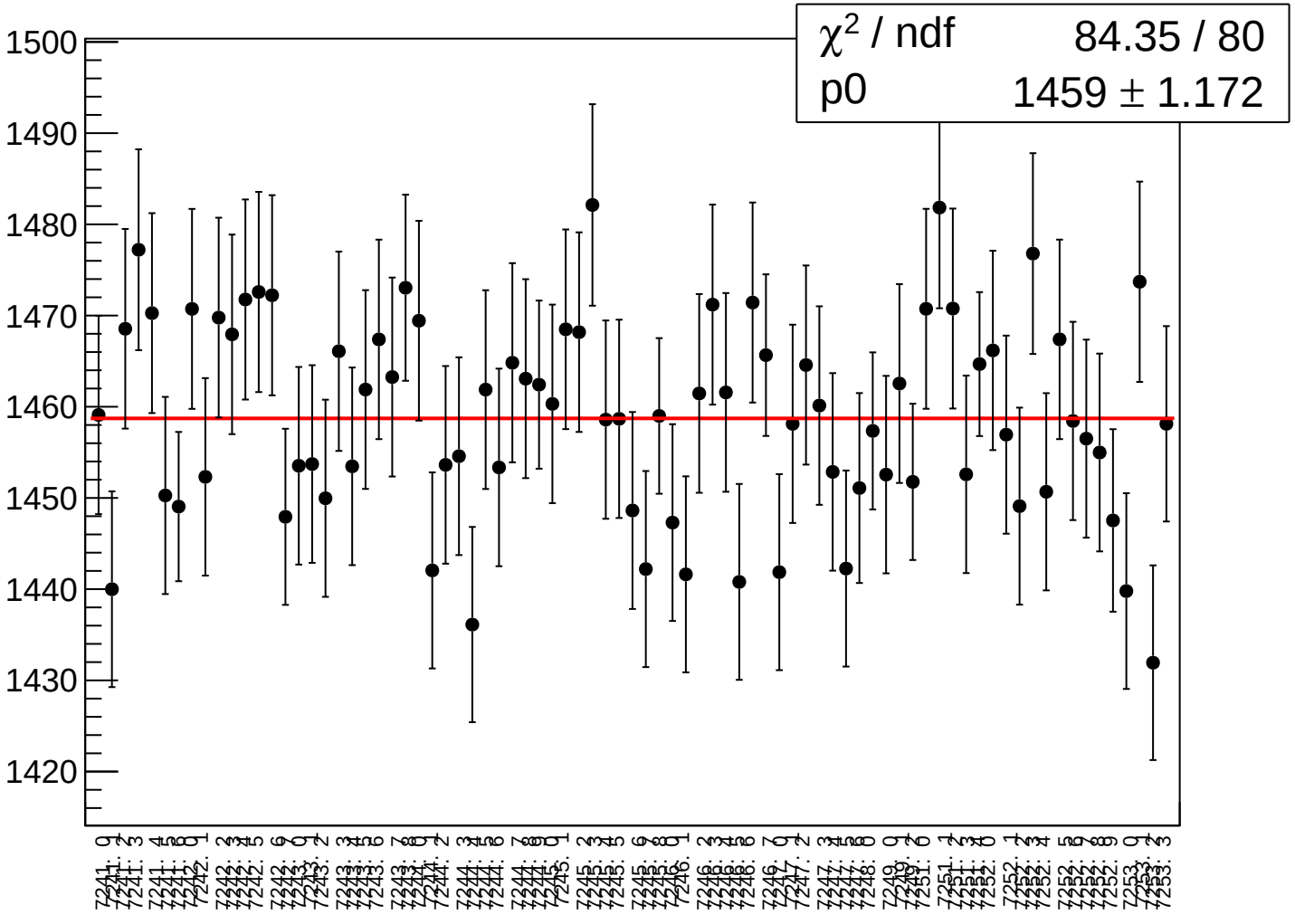
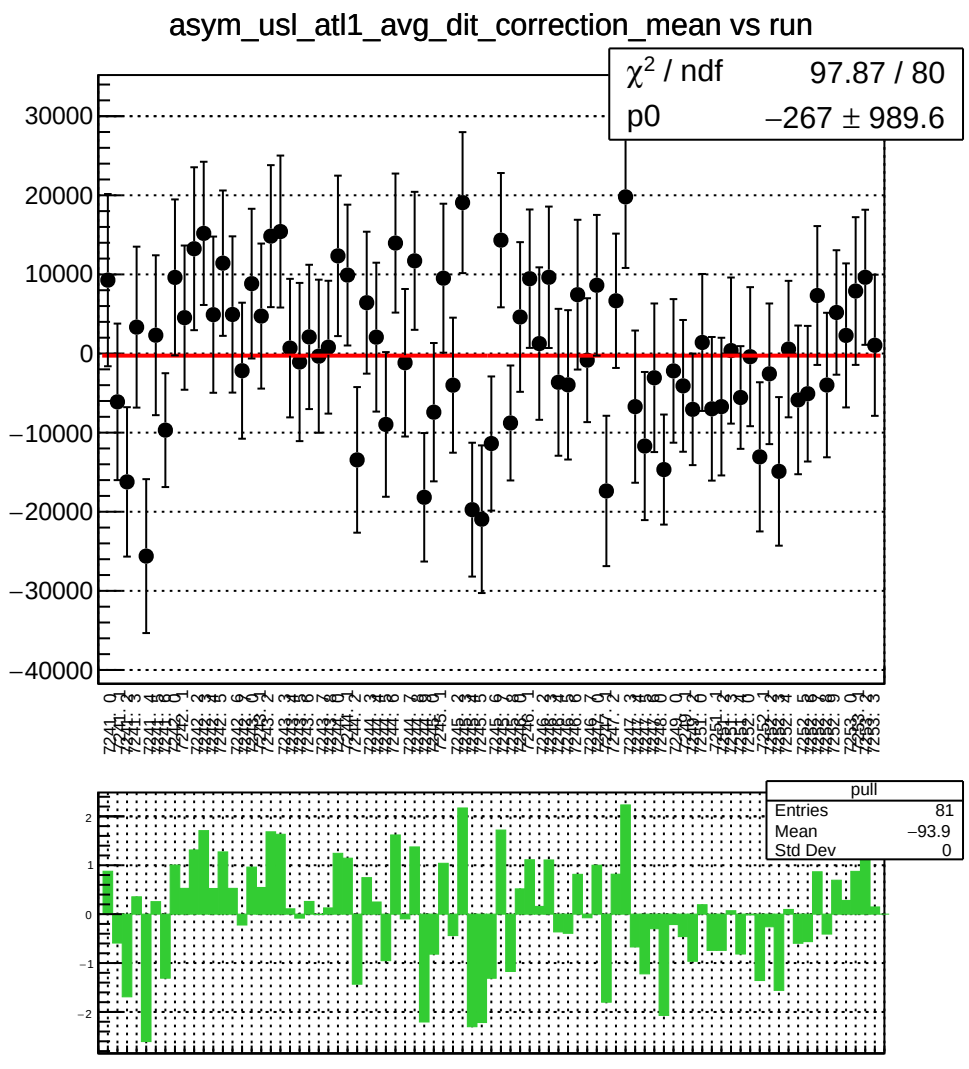
2
4
6
8

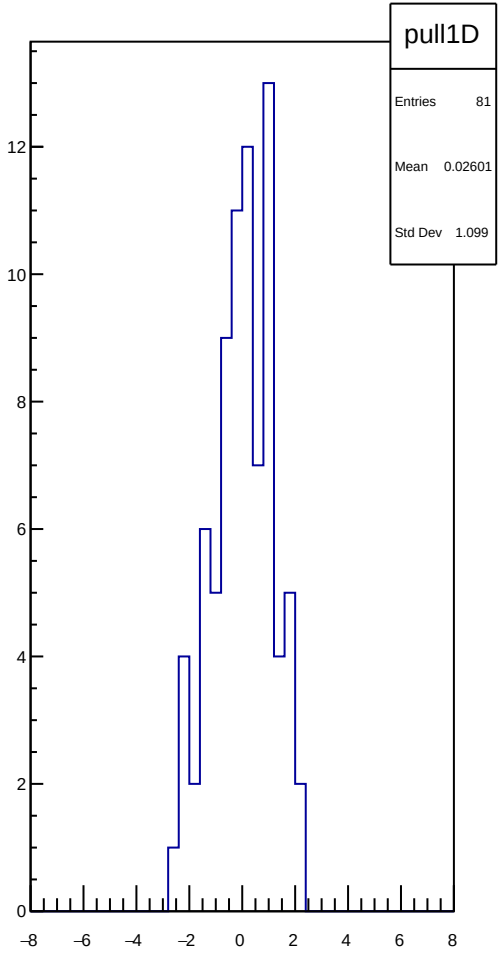

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 4358 / 80
p0 850.2 ± 0.6841
1050
1000
950
900
850
800
750

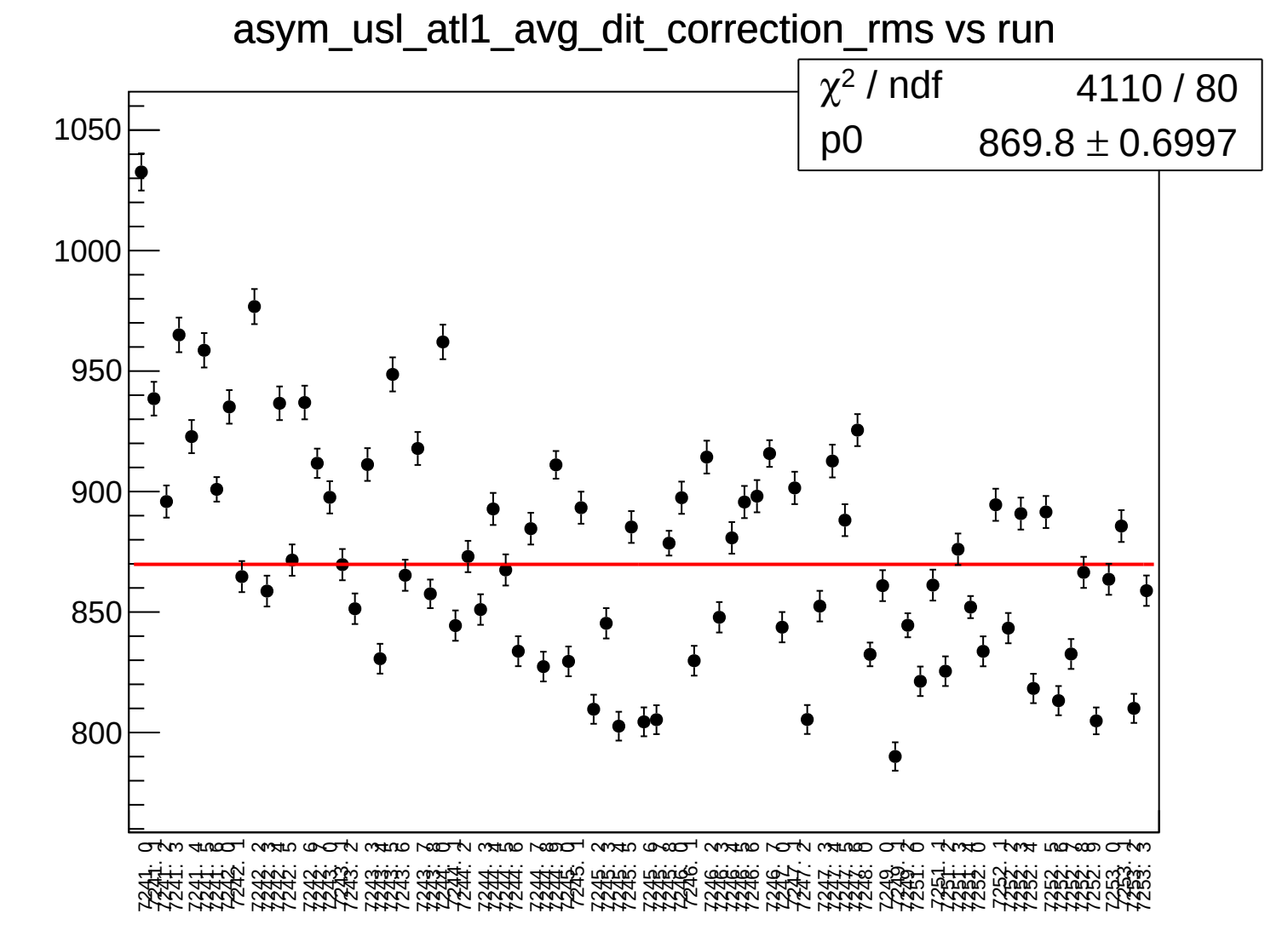

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 87.77 / 80
p0 670.4 ± 1657
60000
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −75.4
Std Dev 0
3
2
1
0
−1
−2

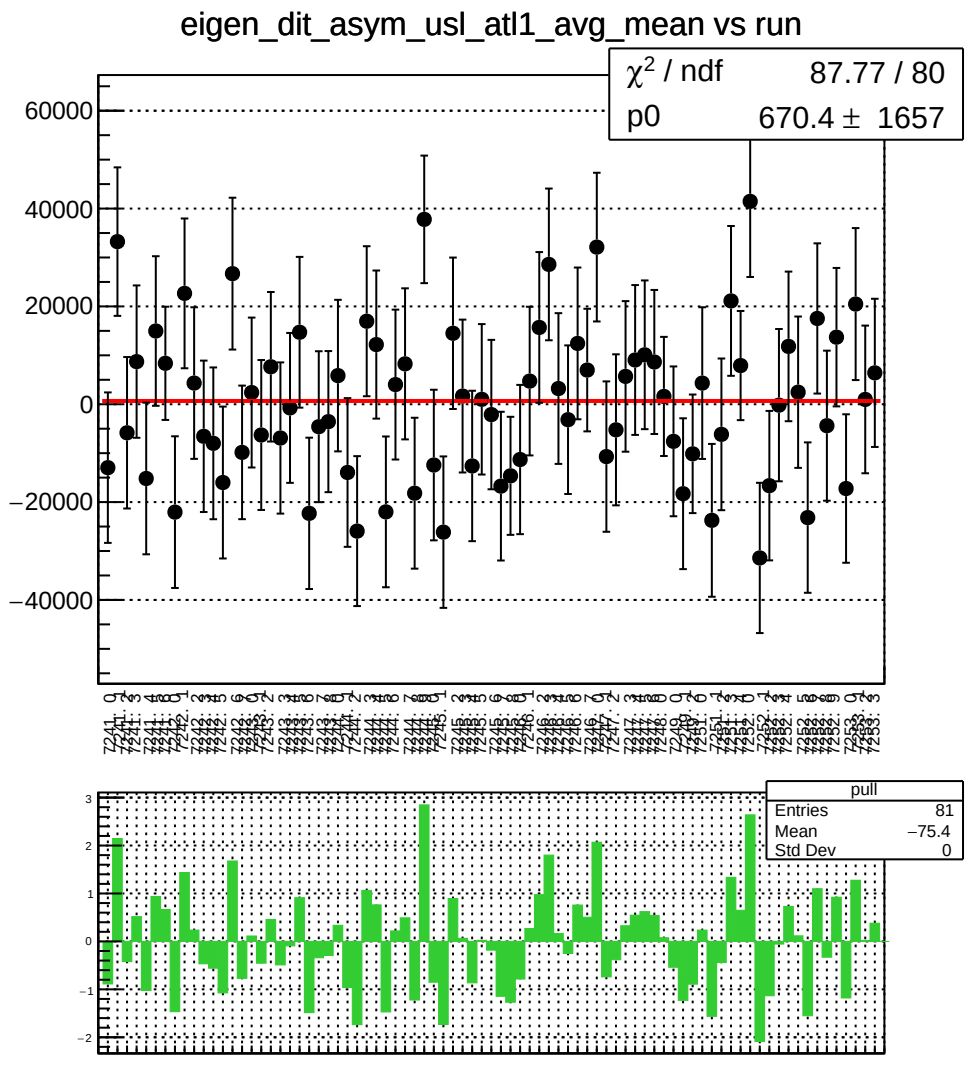

pull1D
Entries 81
Mean −0.006985
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

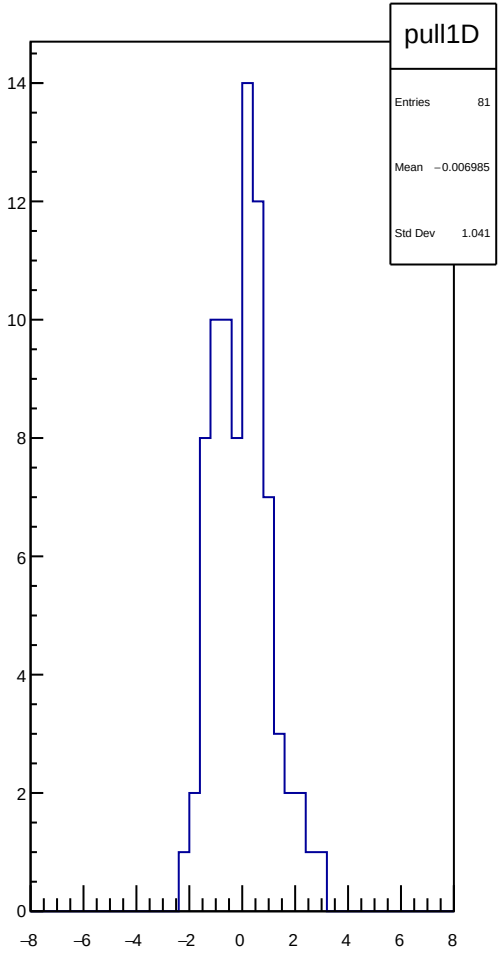

dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 84.35 / 80
p0 1459 ± 1.172
1500
1490
1480
1470
1460
1450
1440
1430
1420

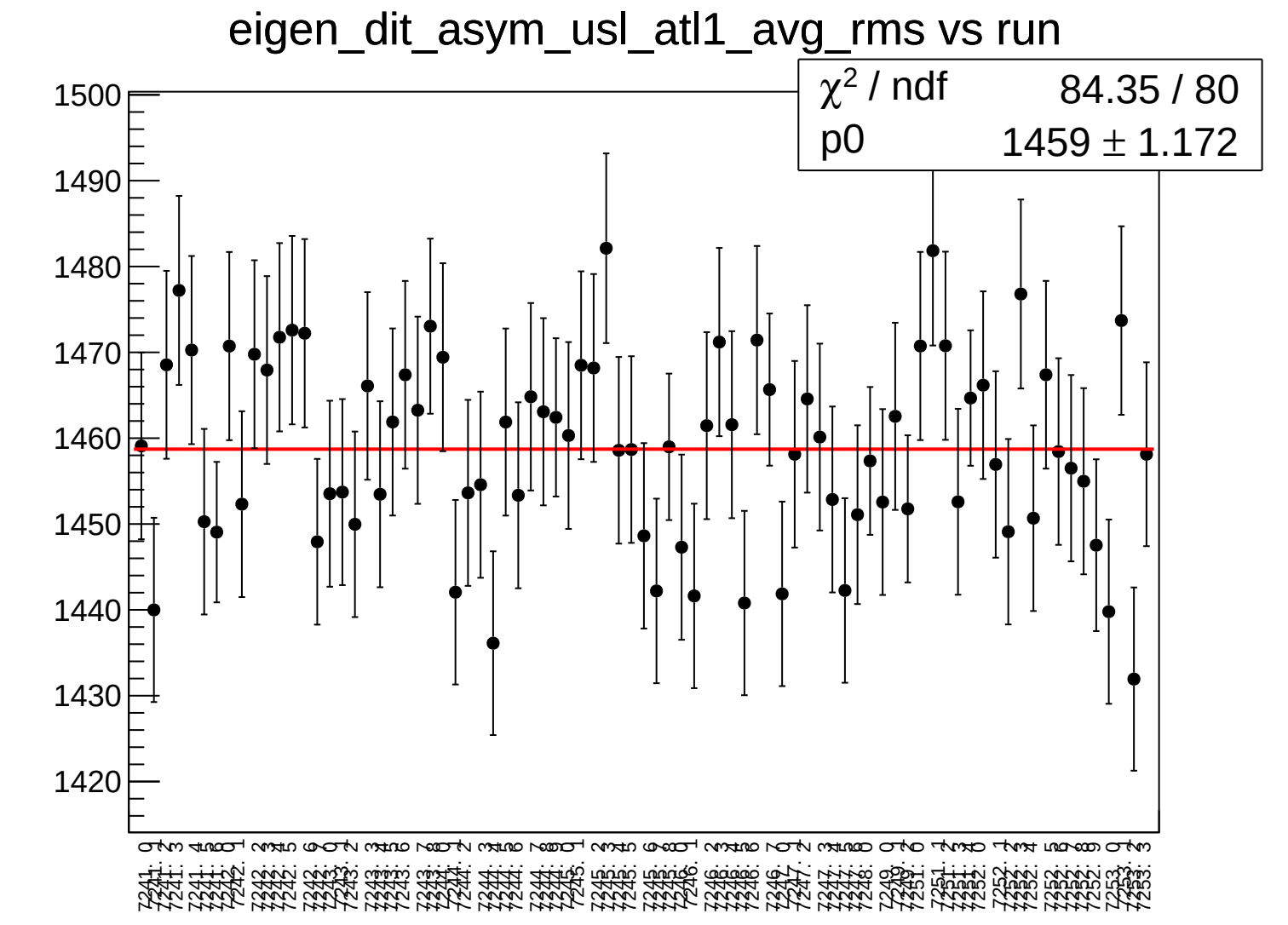

asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 97.87 / 80
p0 −267 ± 989.6
pull
Entries 81
Mean −93.9
Std Dev 0

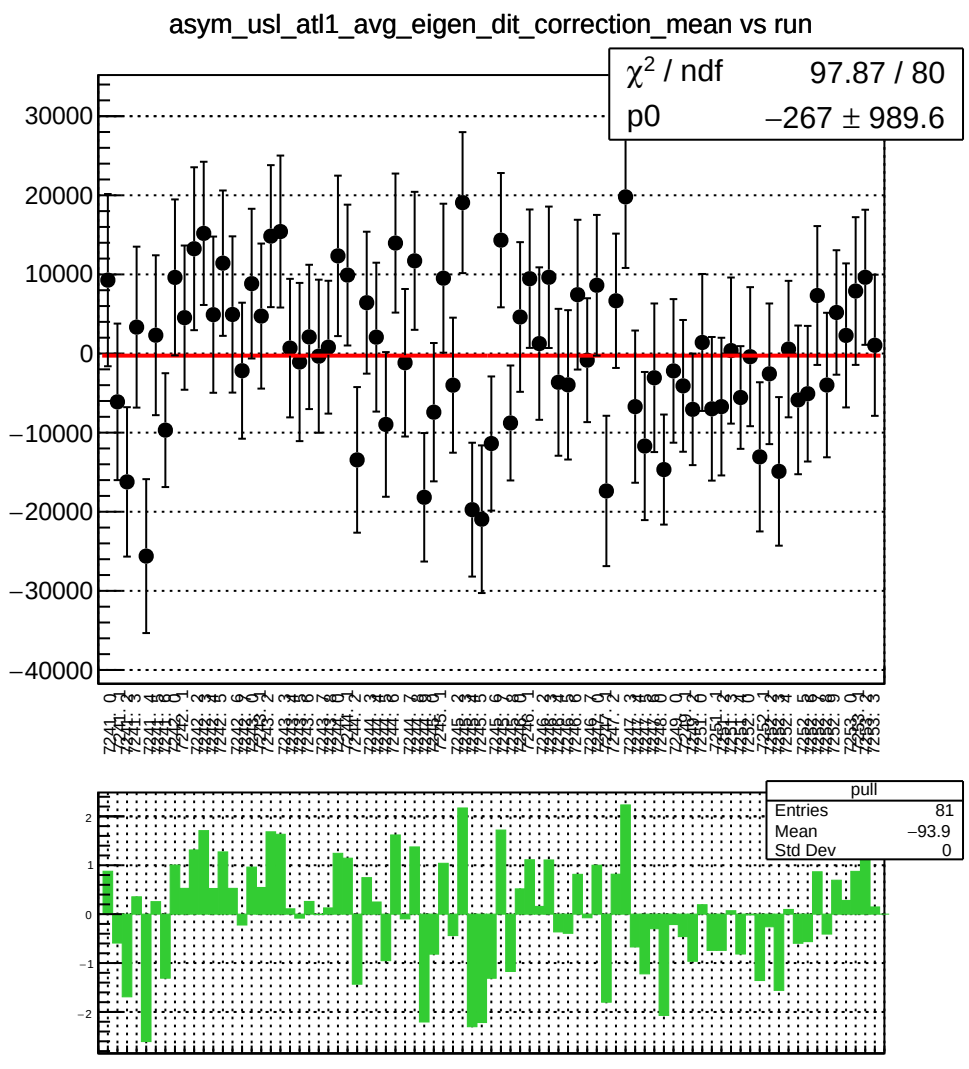

pull1D
Entries 81
Mean 0.02601
Std Dev 1.099

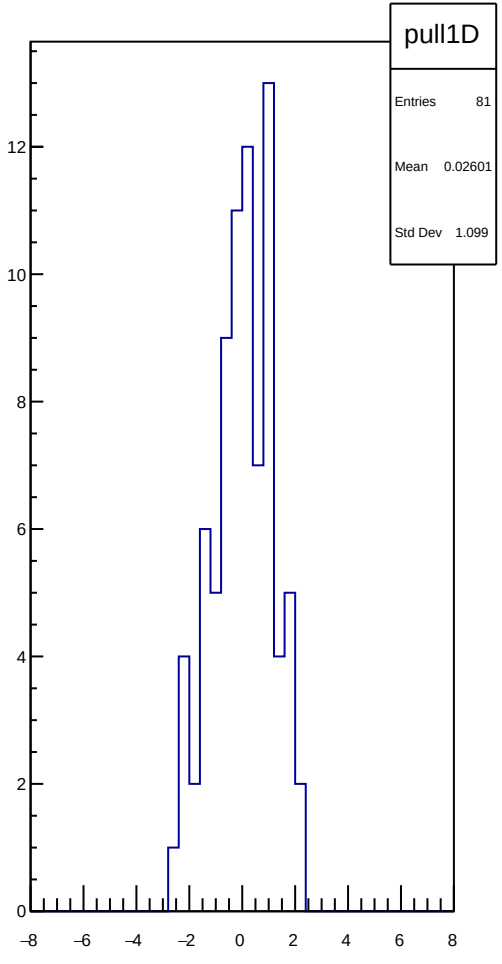

asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 4110 / 80
p0 869.8 ± 0.6997
1050
1000
950
900
850
800

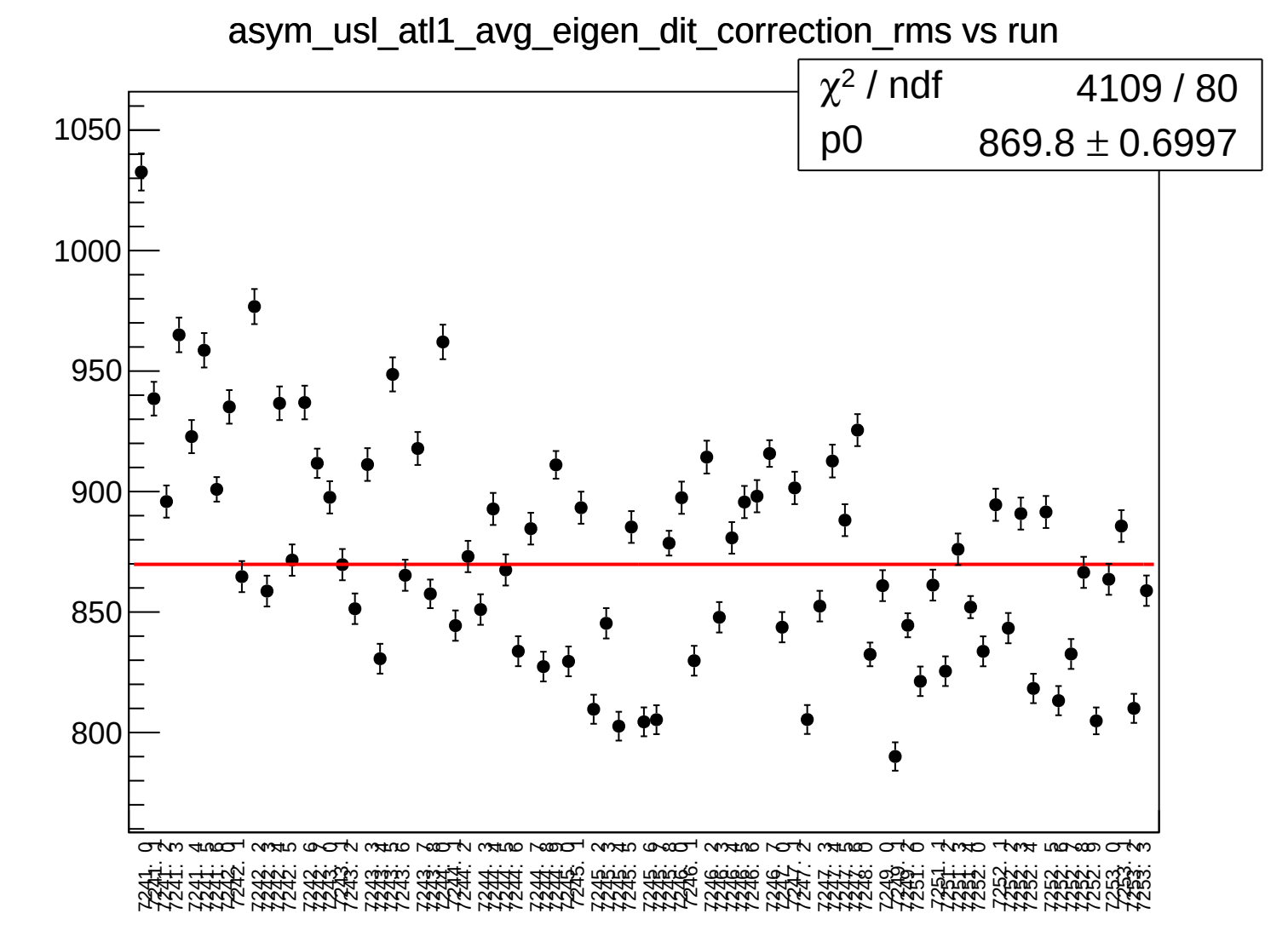

eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 87.77 / 80
p0 670.4 ± 1657
60000
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −75.4
Std Dev 0
3
2
1
0
−1
−2

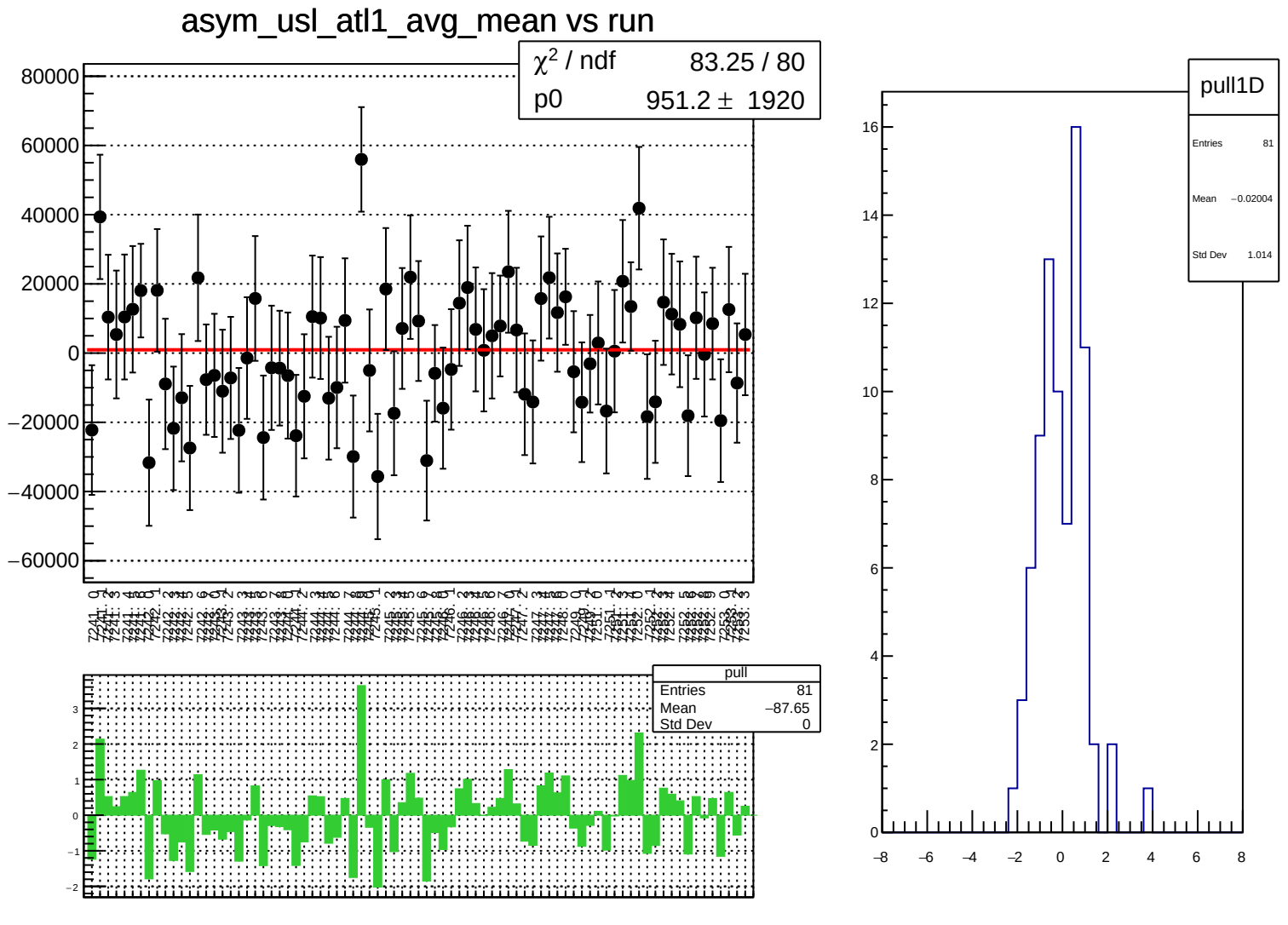

pull1D
Entries 81
Mean −0.006985
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

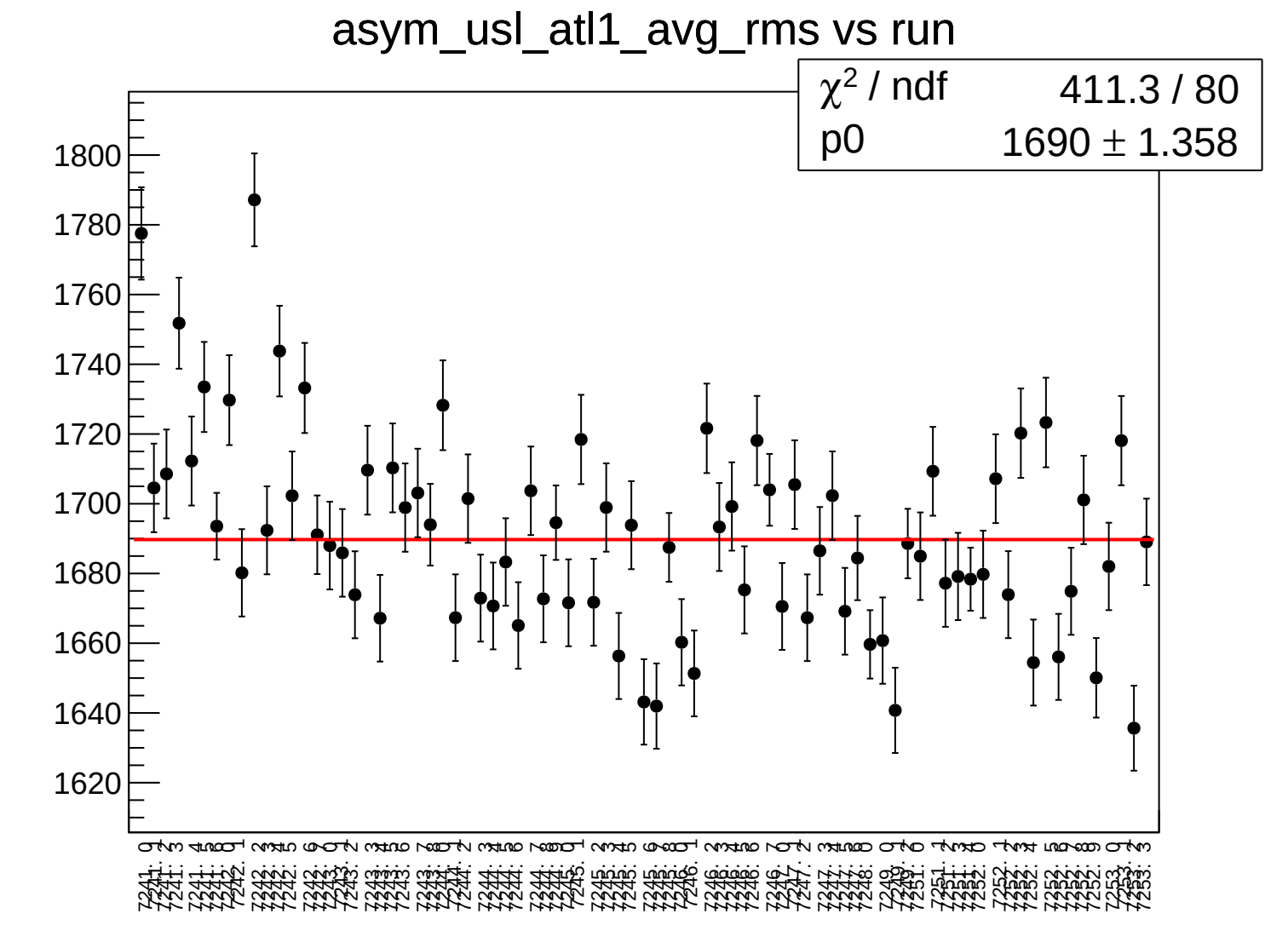

eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 84.35 / 80
p0 1459 ± 1.172
1500
1490
1480
1470
1460
1450
1440
1430
1420

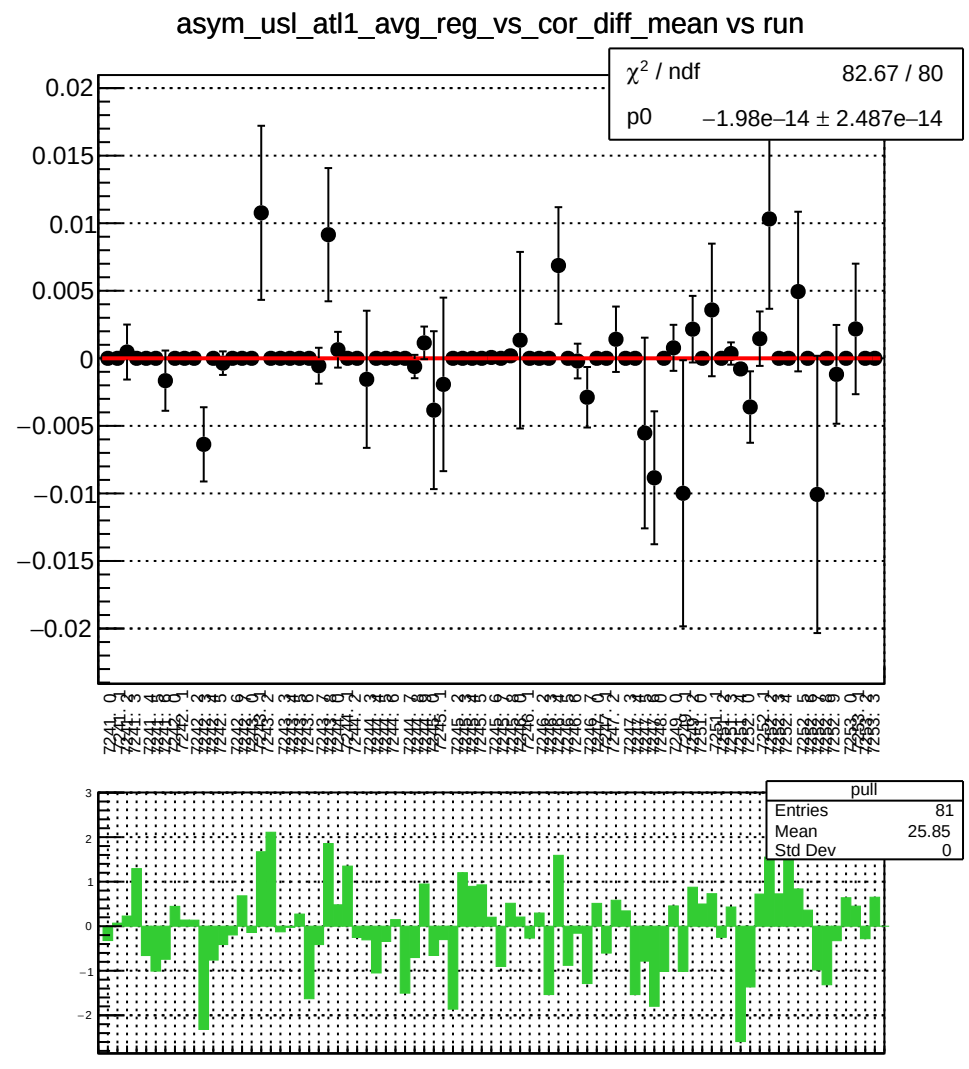

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 97.87 / 80
p0 −267 ± 989.6
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 81
Mean −93.9
Std Dev 0
2
1
0
−1
−2

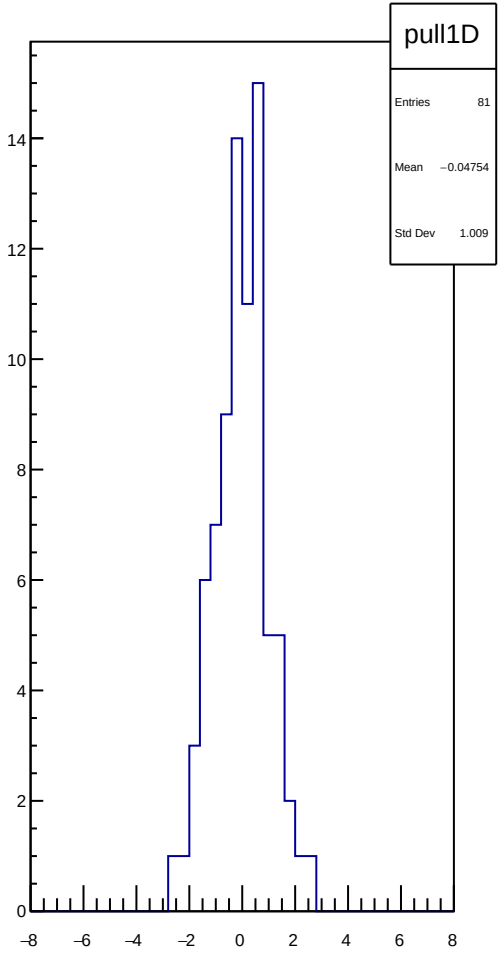

pull1D
Entries 81
Mean 0.02601
Std Dev 1.099
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

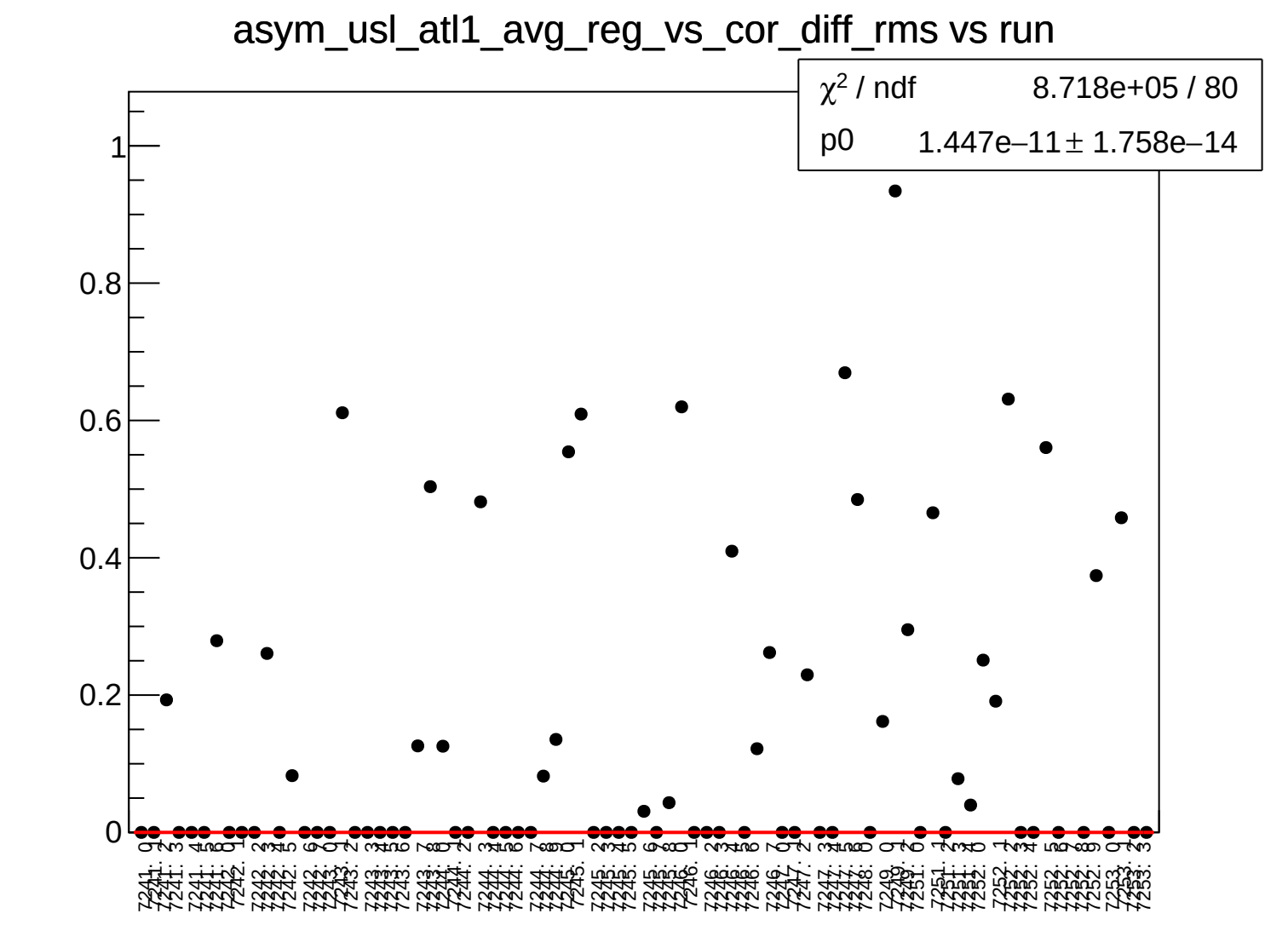

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 4109 / 80
p0 869.8 ± 0.6997
1050
1000
950
900
850
800

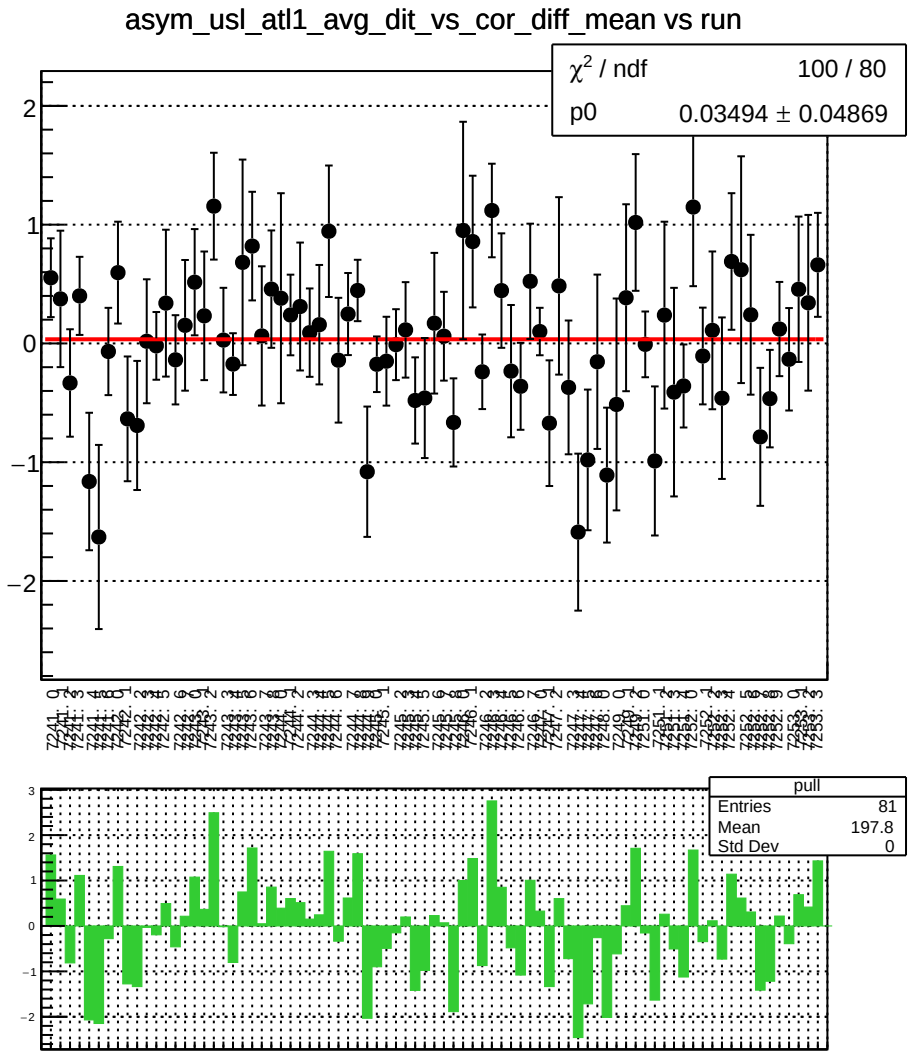

asym_usl_atl1_avg_mean vs run
χ² / ndf 83.25 / 80
p0 951.2 ± 1920
pull
Entries 81
Mean −87.65
Std Dev 0
pull1D
Entries 81
Mean −0.02004
Std Dev 1.014

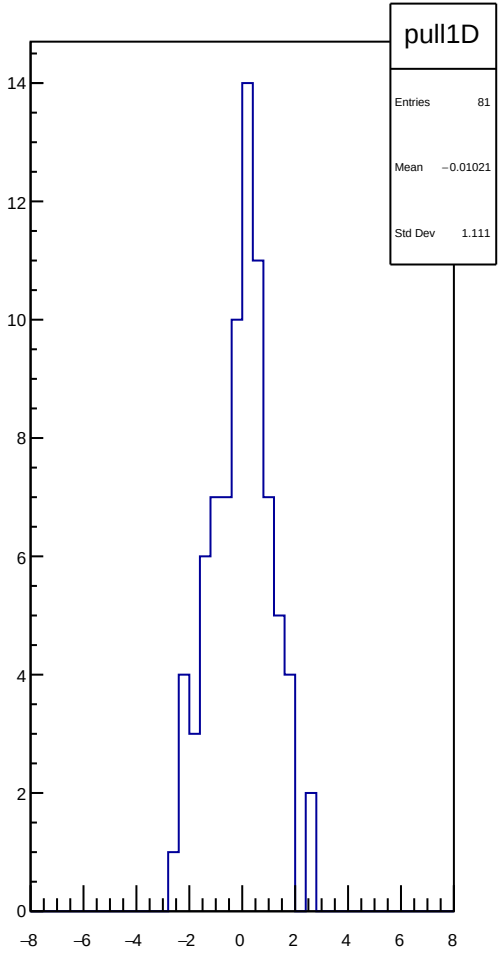

asym_usl_atl1_avg_rms vs run
χ² / ndf 411.3 / 80
p0 1690 ± 1.358
1800
1780
1760
1740
1720
1700
1680
1660
1640
1620

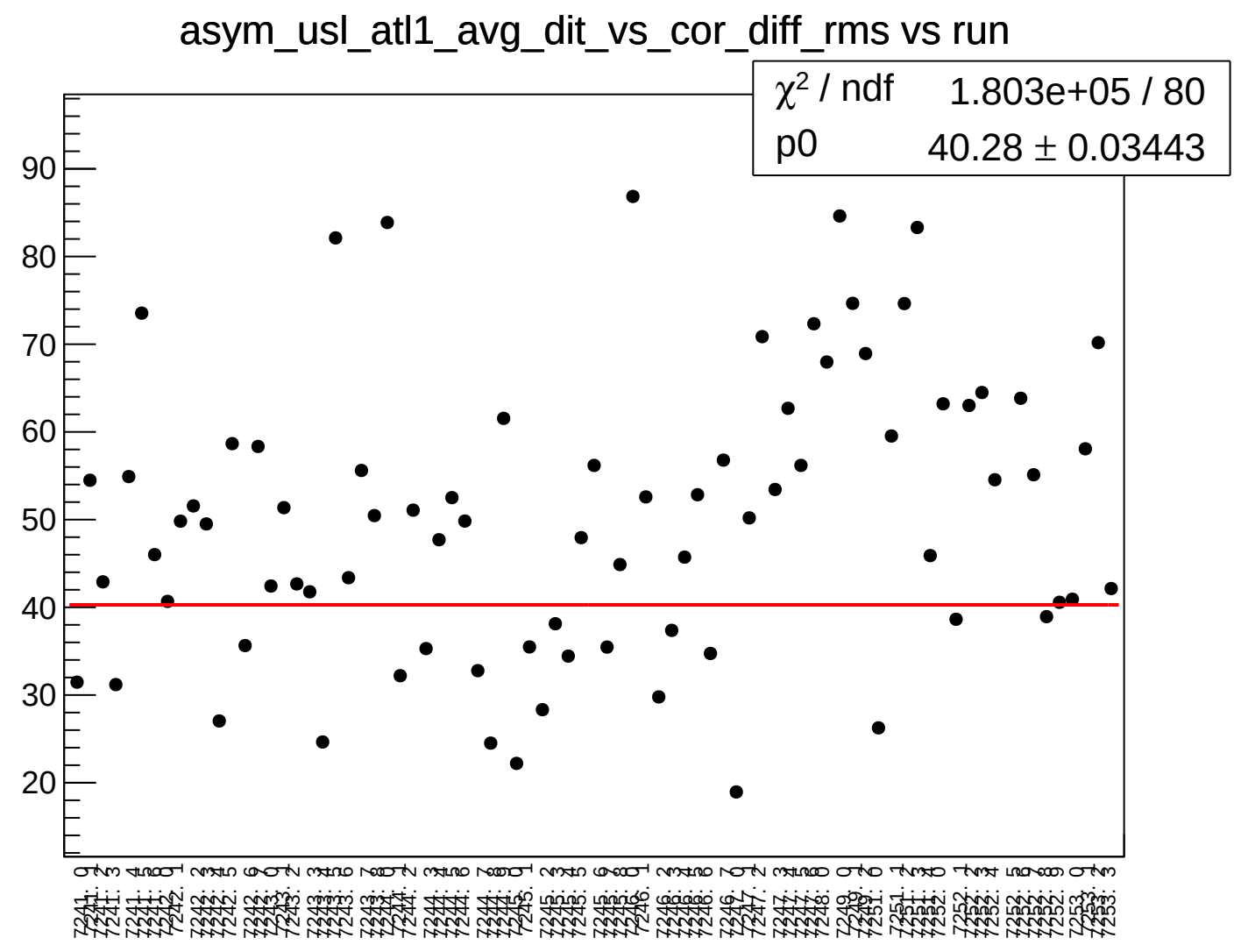

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 82.67 / 80
p0 −1.98e−14 ± 2.487e−14
pull
Entries 81
Mean 25.85
Std Dev 0

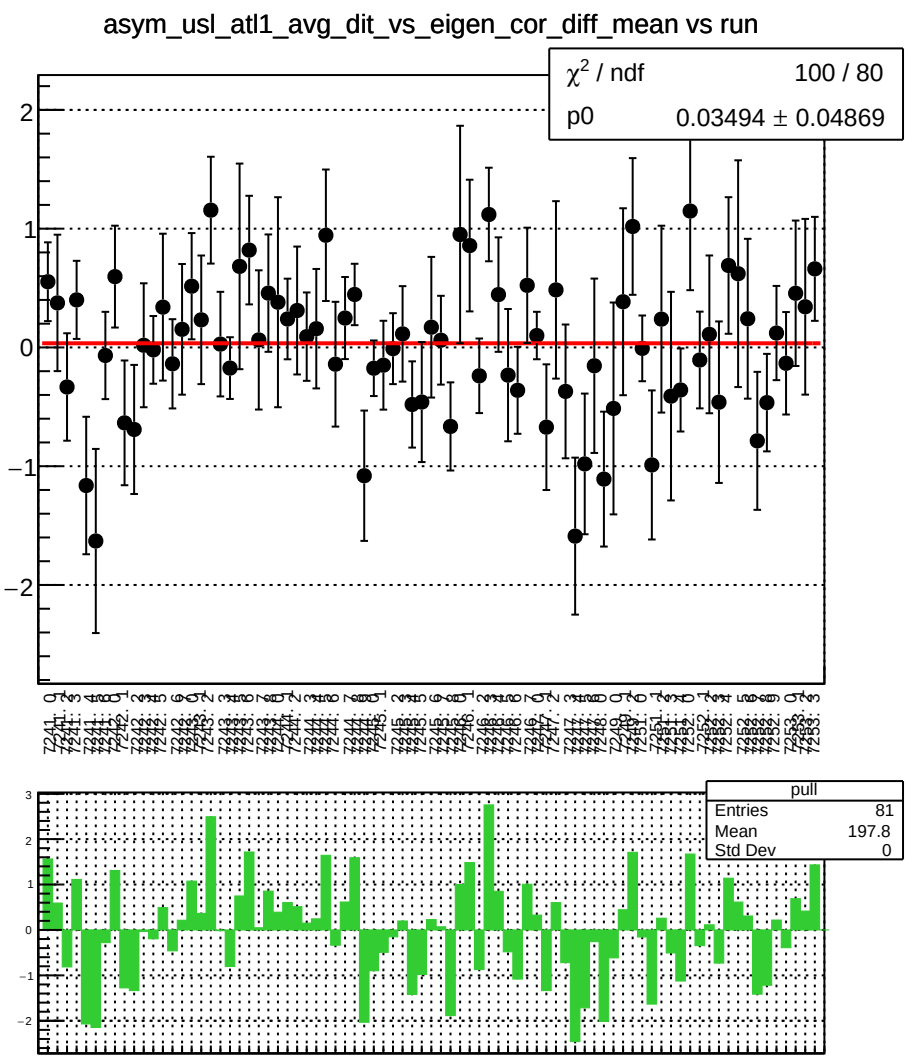

pull1D
Entries 81
Mean −0.04754
Std Dev 1.009

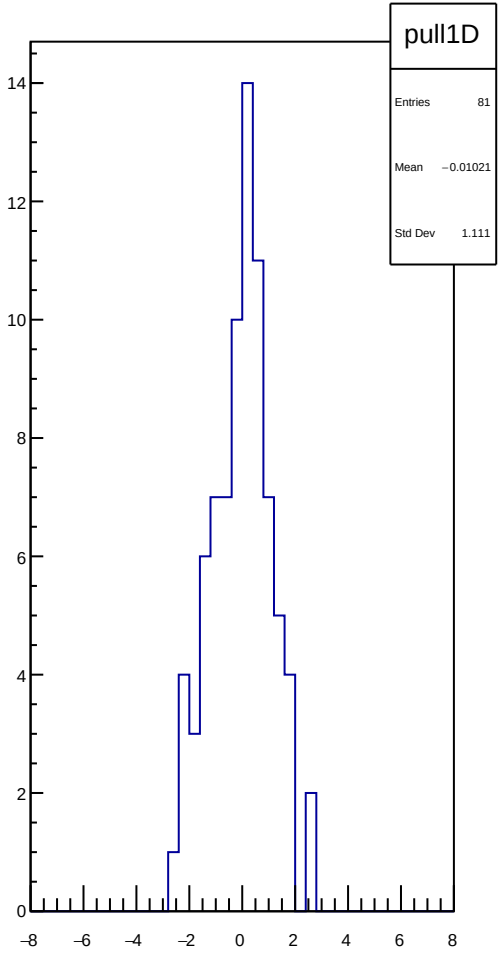

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.718e+05 / 80
p0 1.447e−11 ± 1.758e−14
1
0.8
0.6
0.4
0.2
0

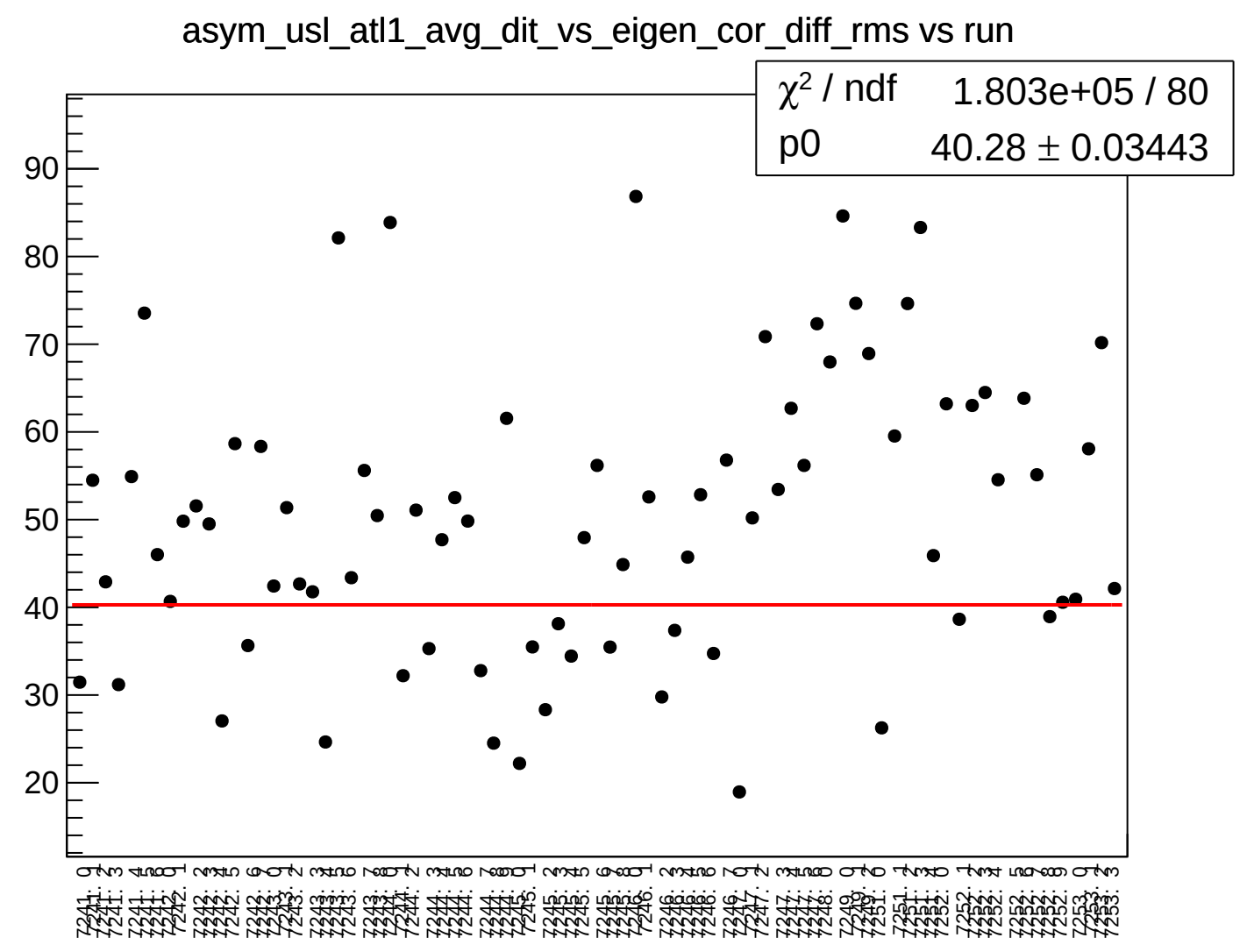

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 100 / 80
p0 0.03494 ± 0.04869
pull
Entries 81
Mean 197.8
Std Dev 0

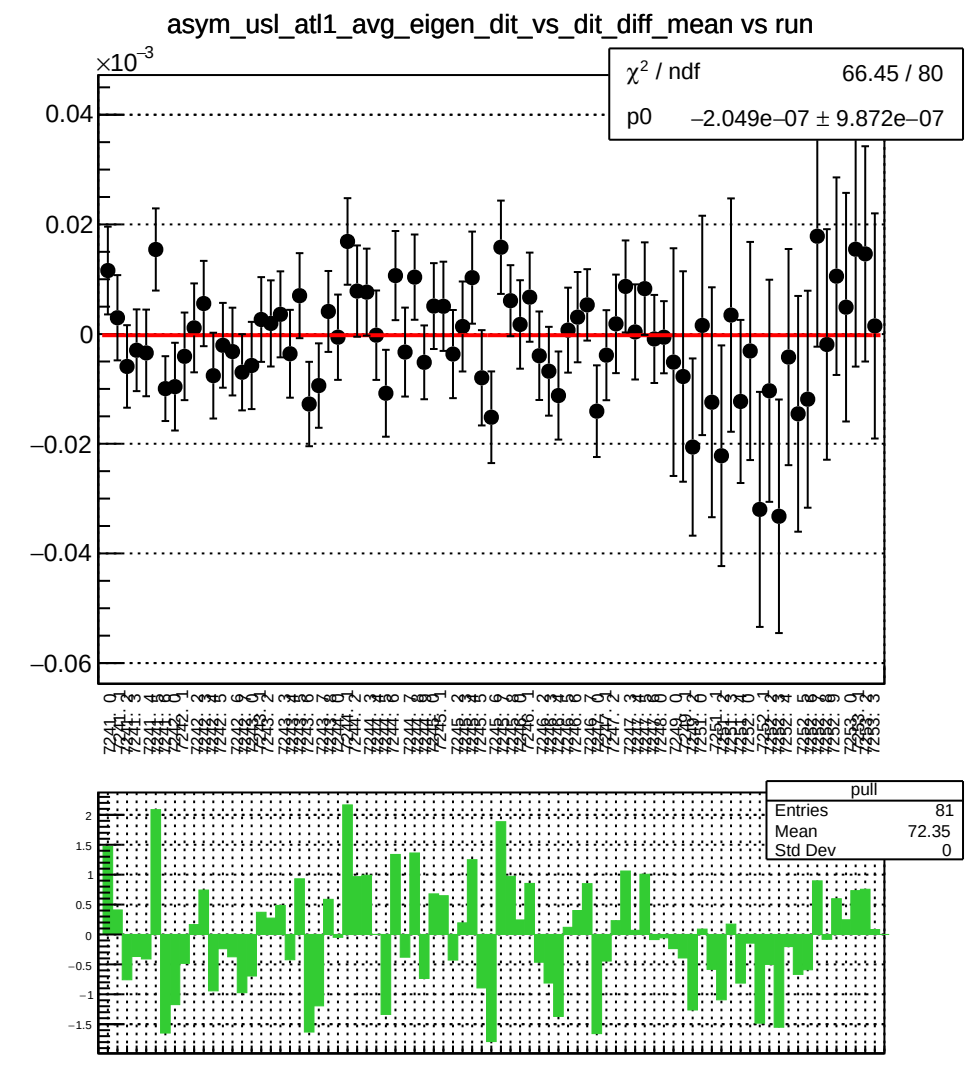

pull1D
Entries 81
Mean −0.01021
Std Dev 1.111

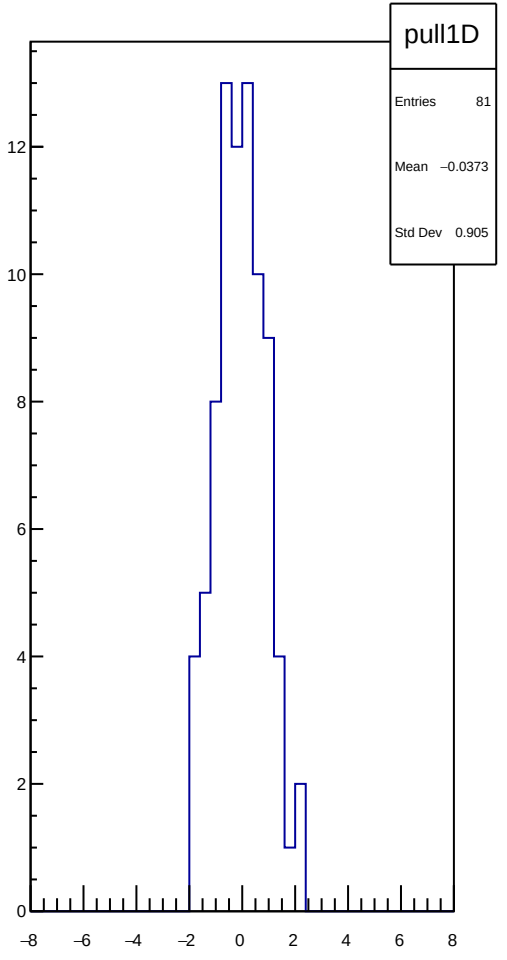

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.803e+05 / 80
p0 40.28 ± 0.03443
90
80
70
60
50
40
30
20

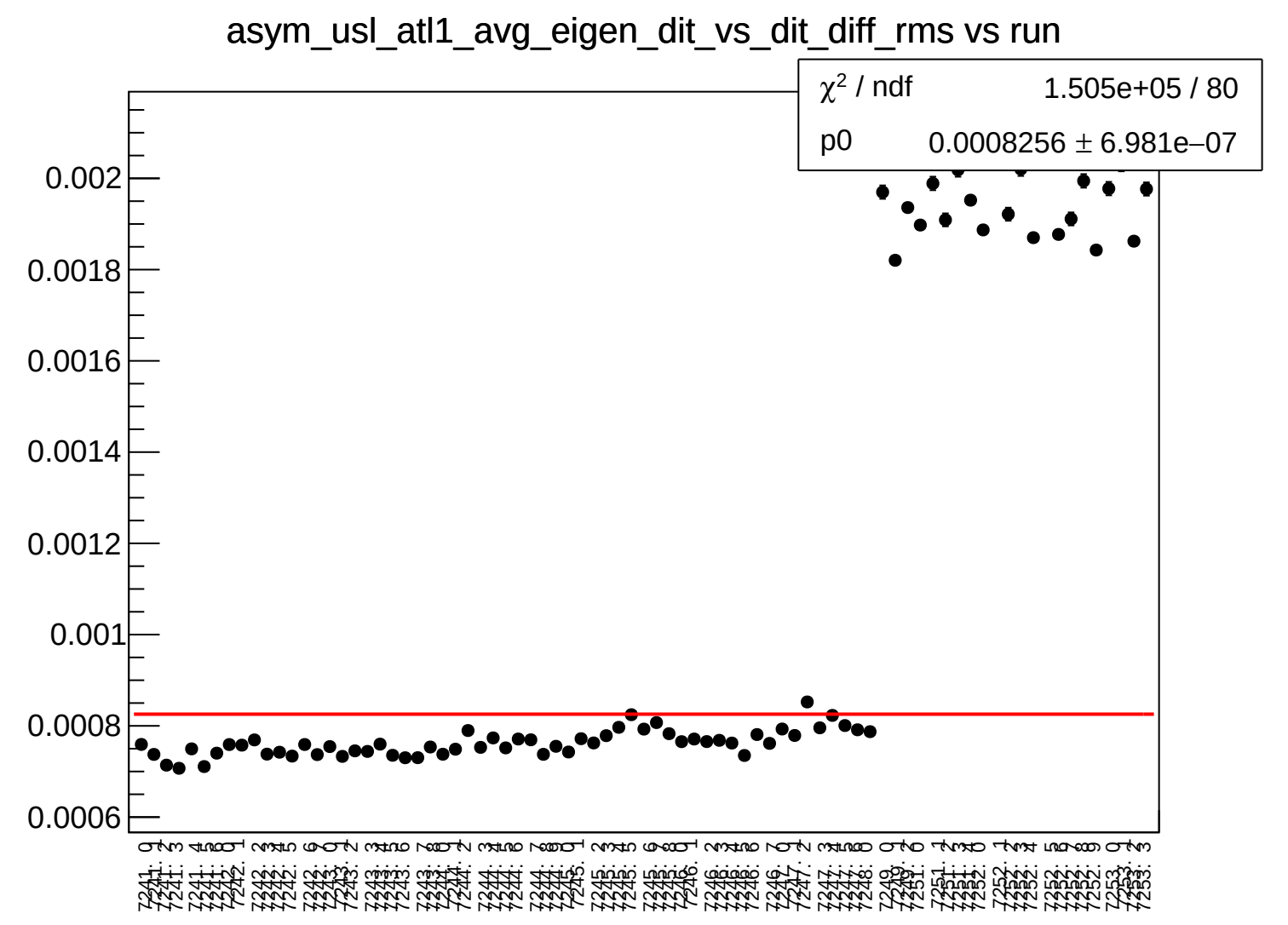

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100 / 80
p0 0.03494 ± 0.04869
pull
Entries 81
Mean 197.8
Std Dev 0

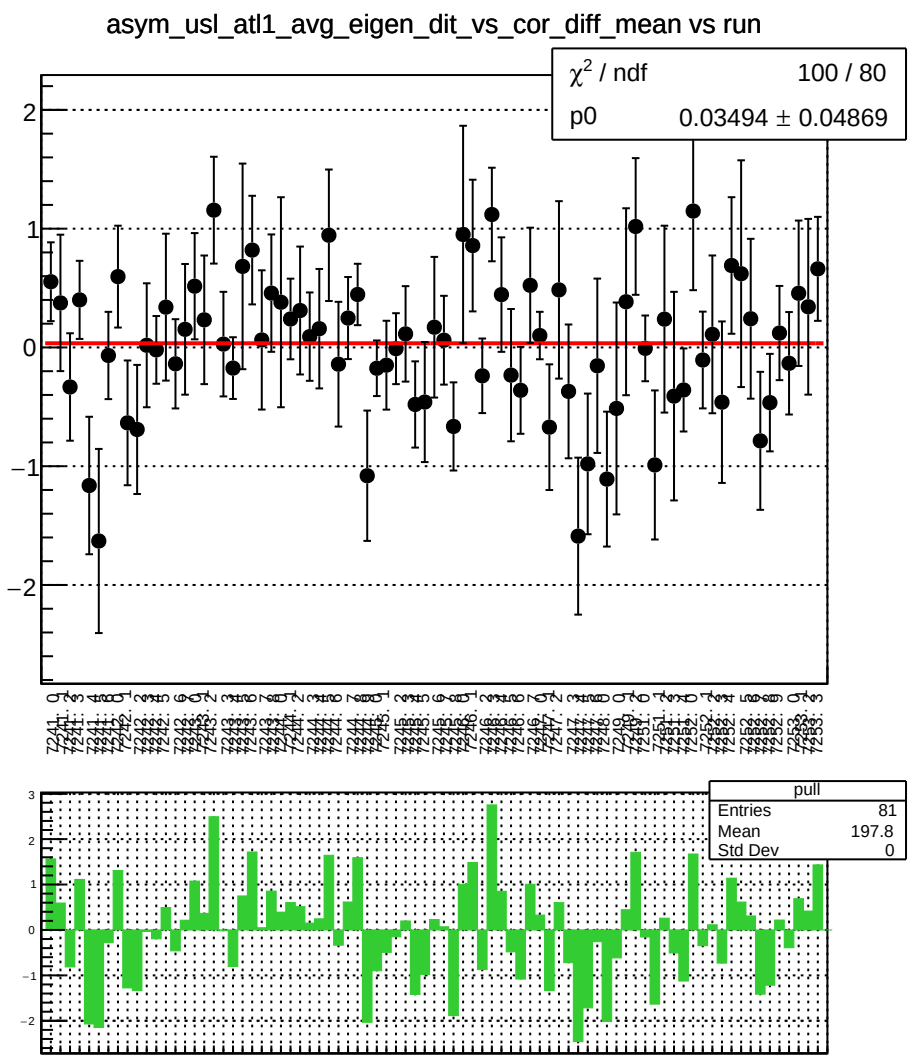

pull1D
Entries 81
Mean −0.01021
Std Dev 1.111

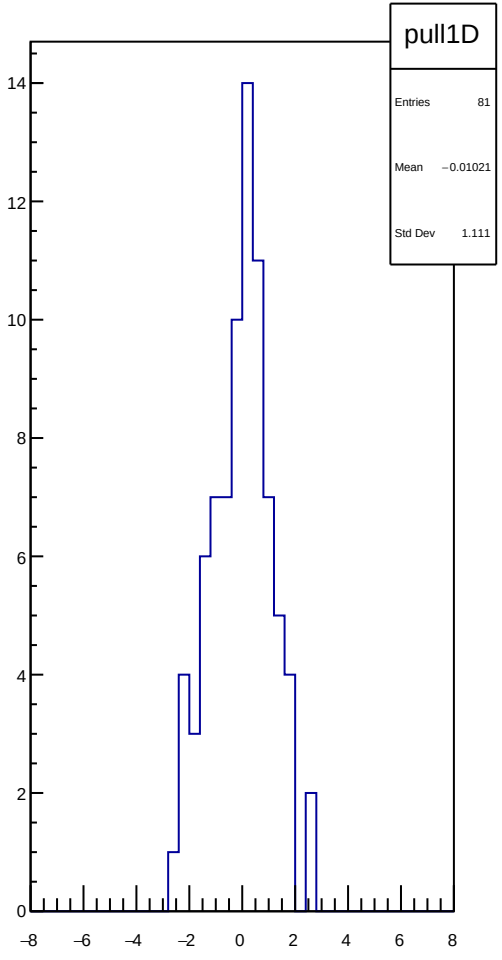

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.803e+05 / 80
p0 40.28 ± 0.03443
90
80
70
60
50
40
30
20

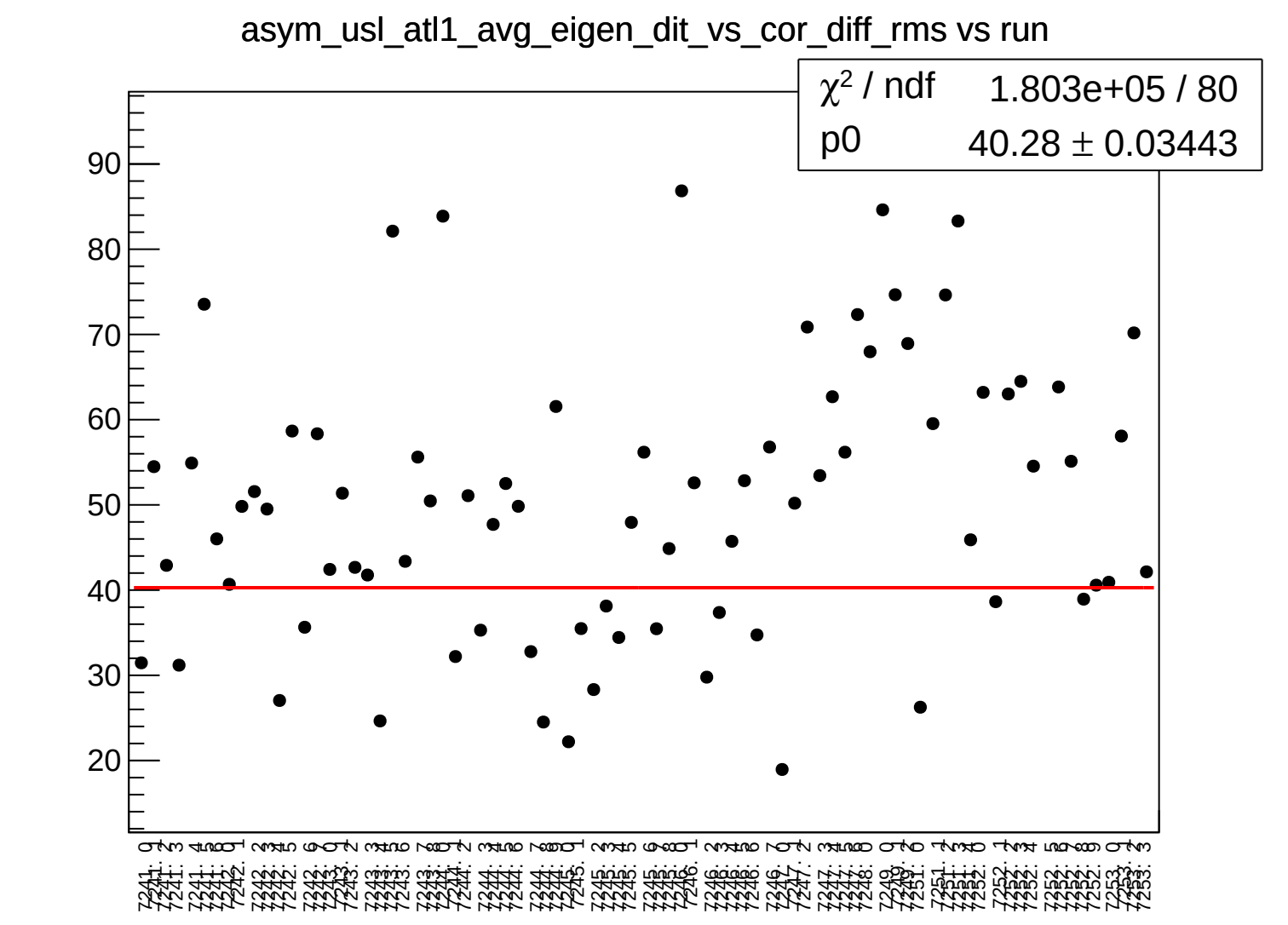

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 66.45 / 80
p0 −2.049e−07 ± 9.872e−07
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 81
Mean 72.35
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

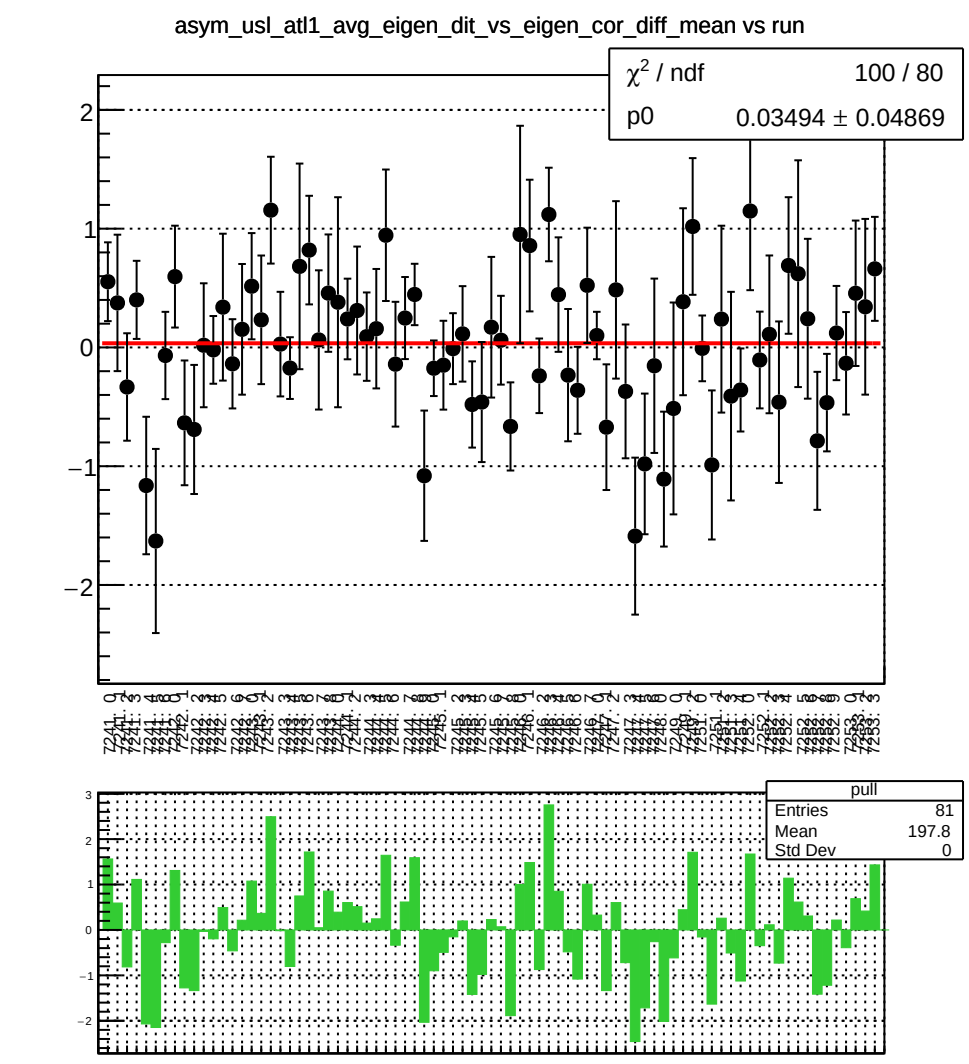

pull1D
Entries 81
Mean −0.0373
Std Dev 0.905
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

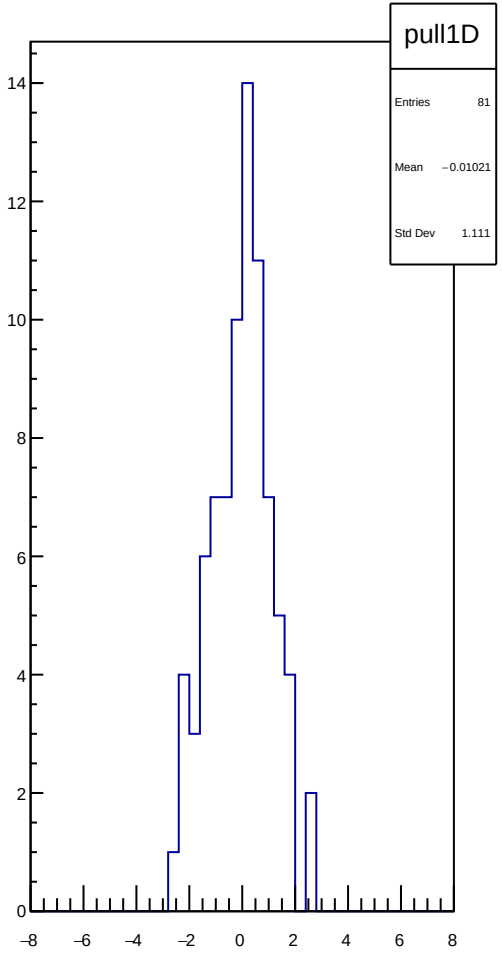

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.505e+05 / 80
p0 0.0008256 ± 6.981e−07
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006

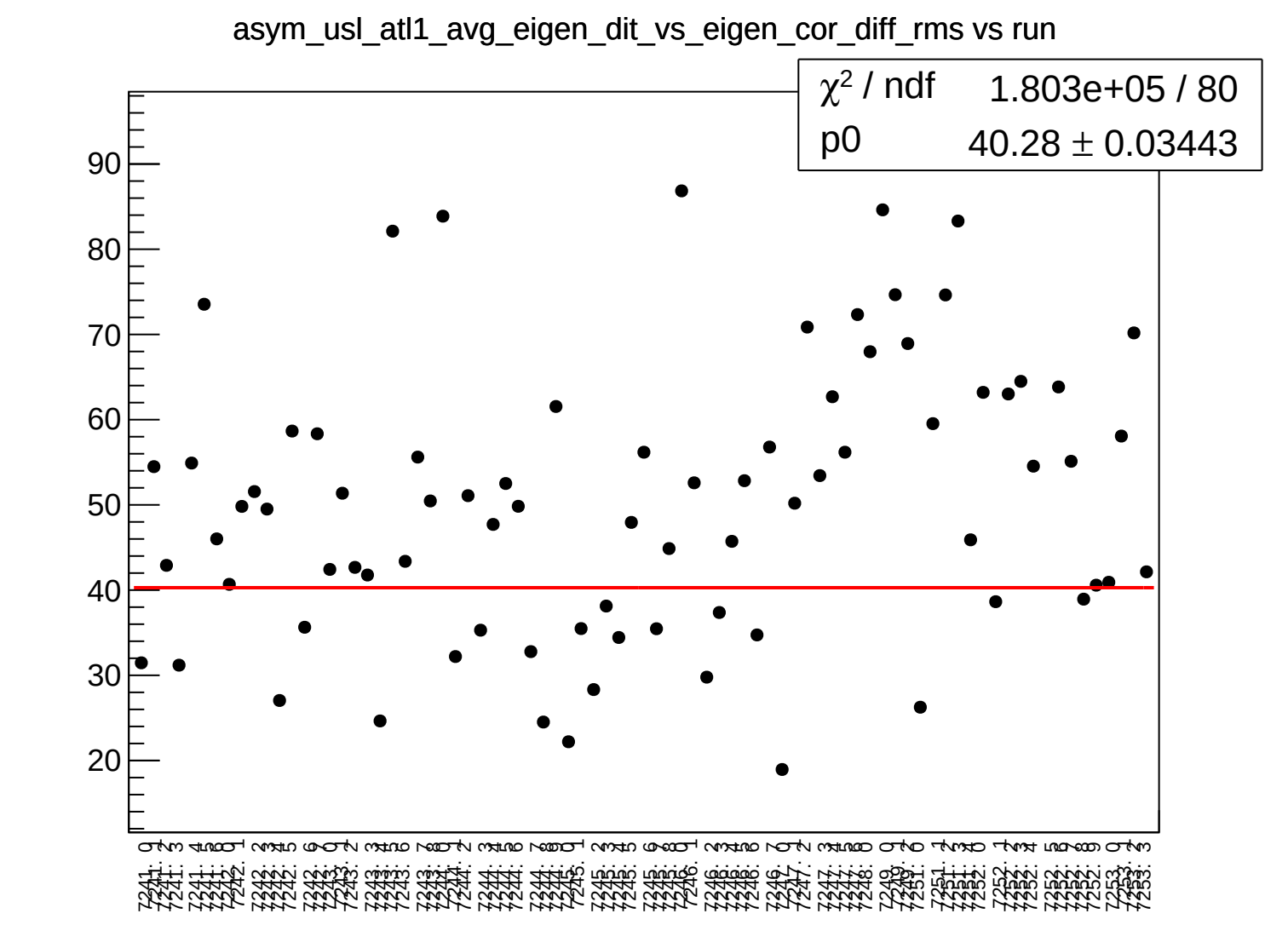

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100 / 80
p0 0.03494 ± 0.04869
pull
Entries 81
Mean 197.8
Std Dev 0

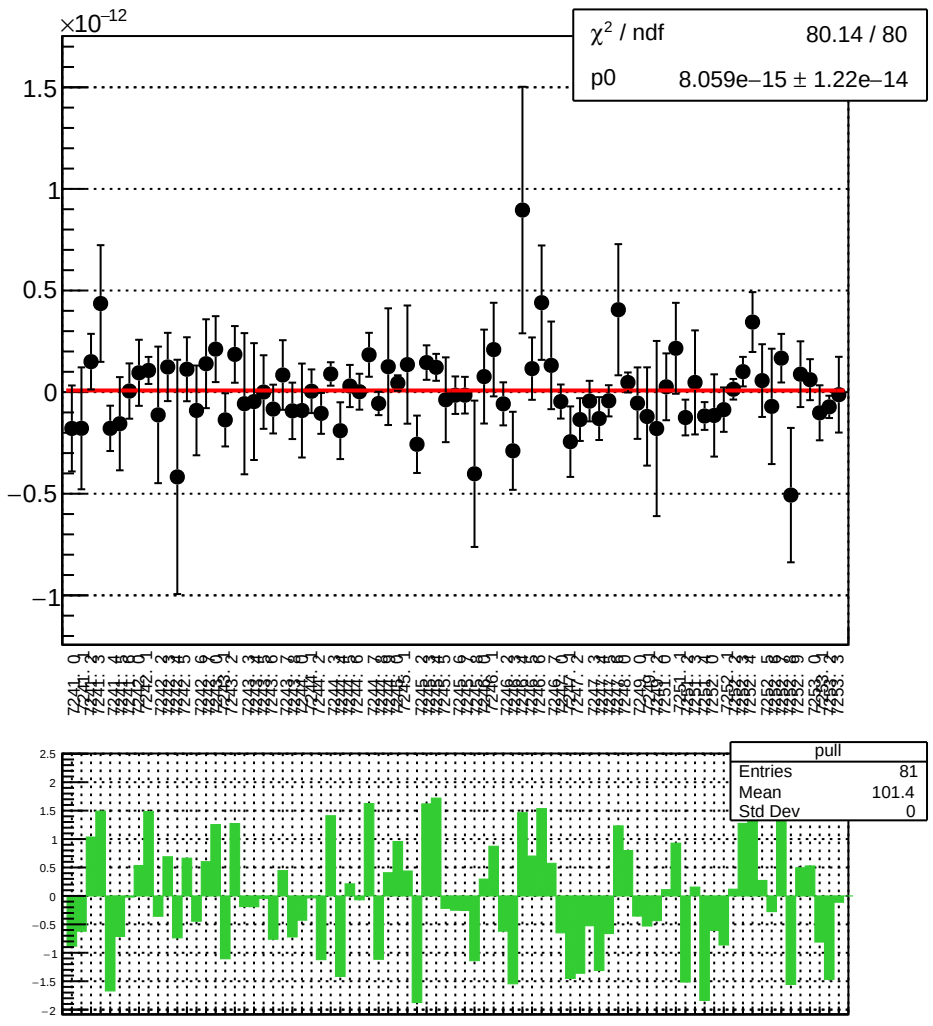

pull1D
Entries 81
Mean −0.01021
Std Dev 1.111

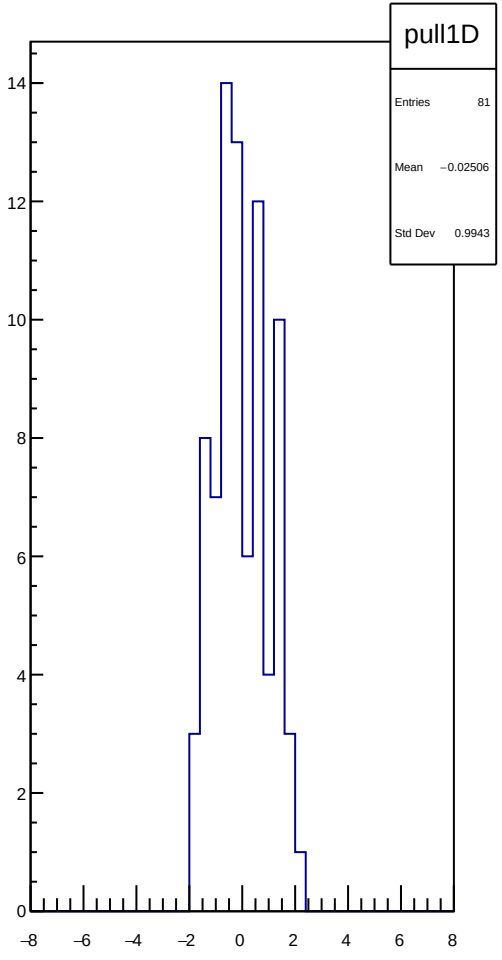

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.803e+05 / 80
p0 40.28 ± 0.03443
90
80
70
60
50
40
30
20

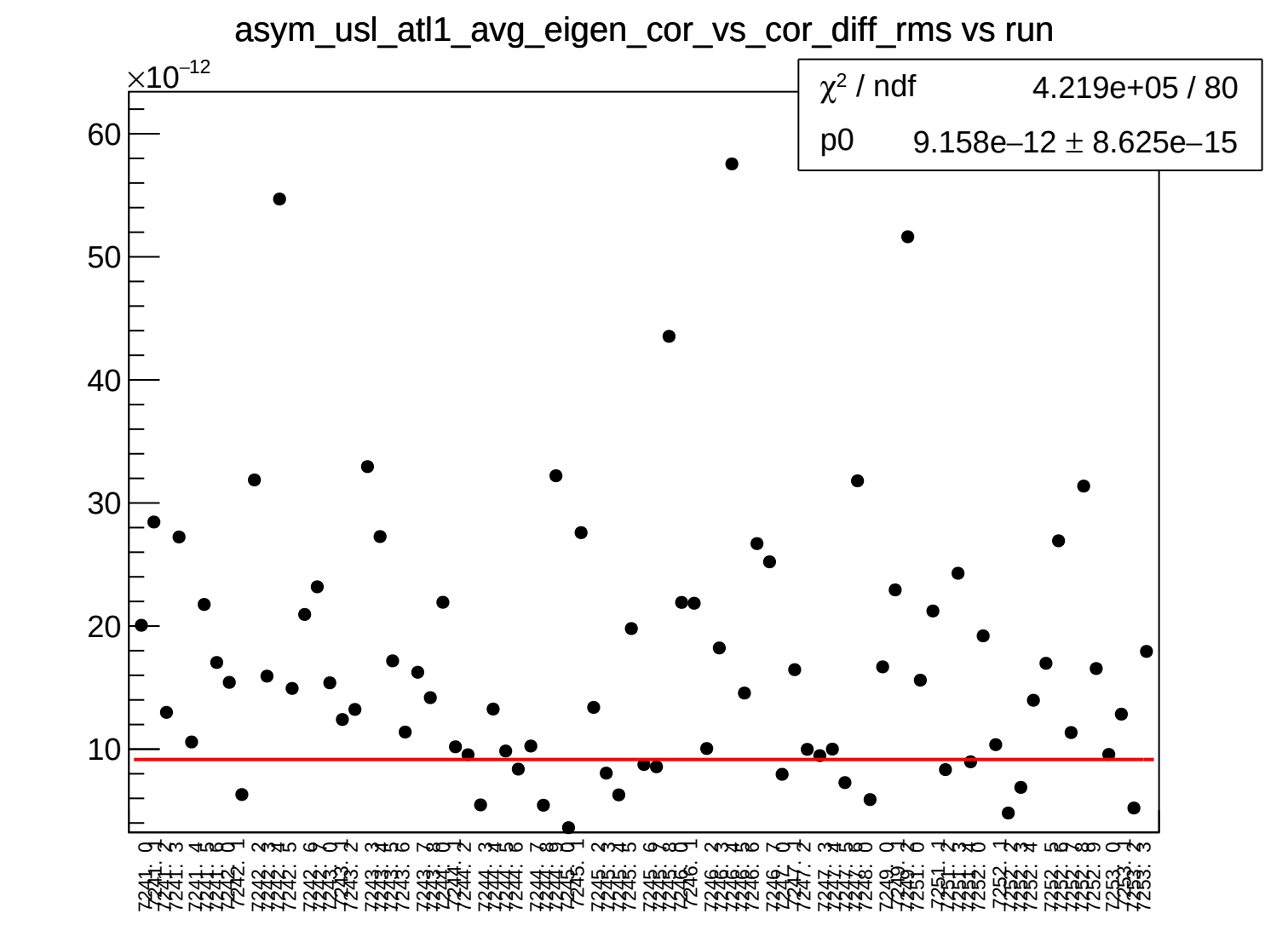

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100 / 80
p0 0.03494 ± 0.04869
pull
Entries 81
Mean 197.8
Std Dev 0

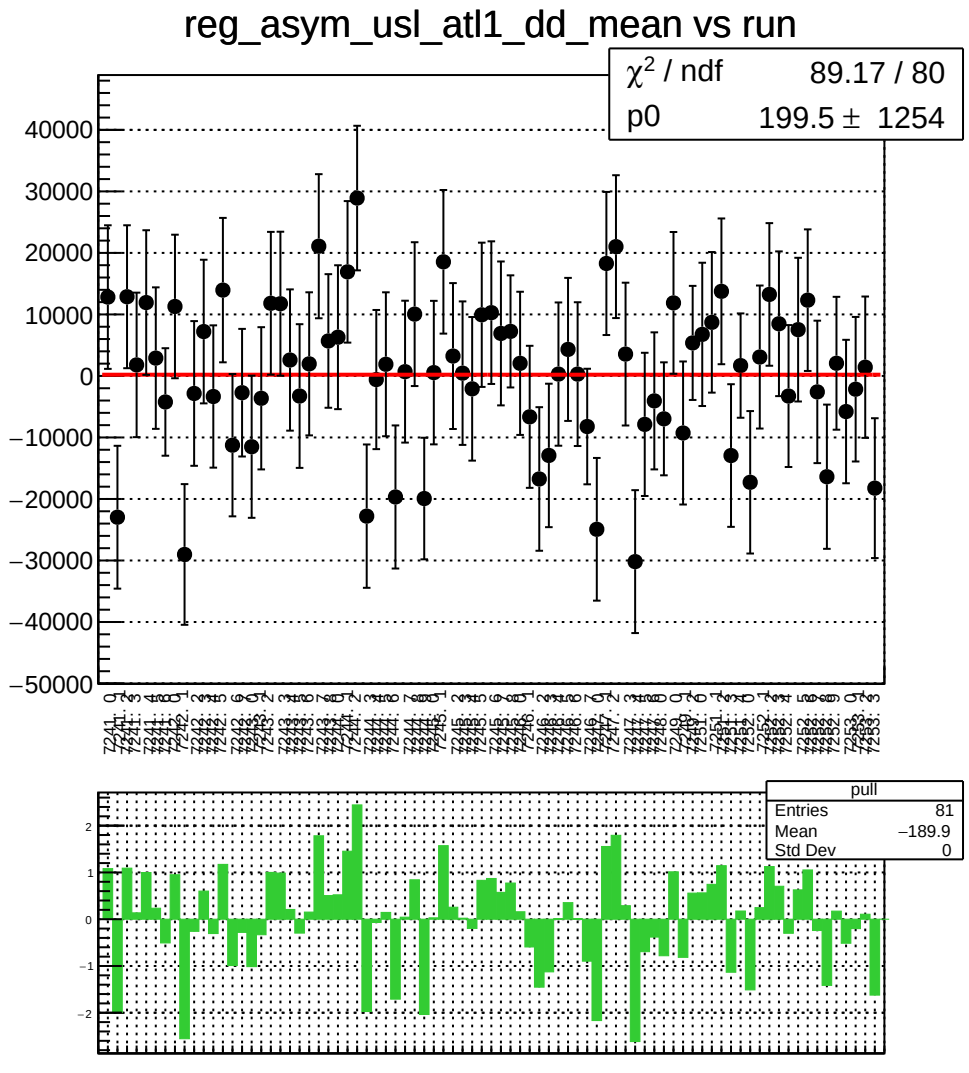

pull1D
Entries 81
Mean −0.01021
Std Dev 1.111

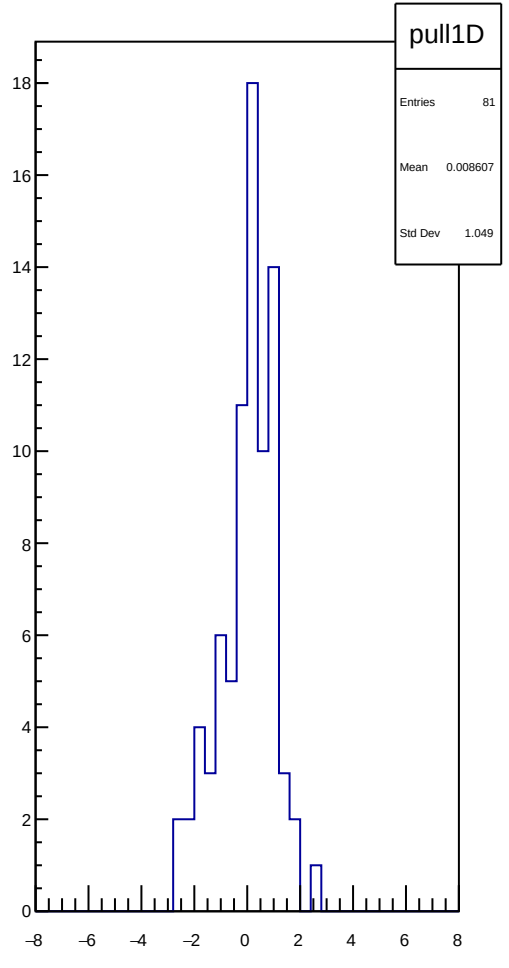

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.803e+05 / 80
p0 40.28 ± 0.03443
90
80
70
60
50
40
30
20

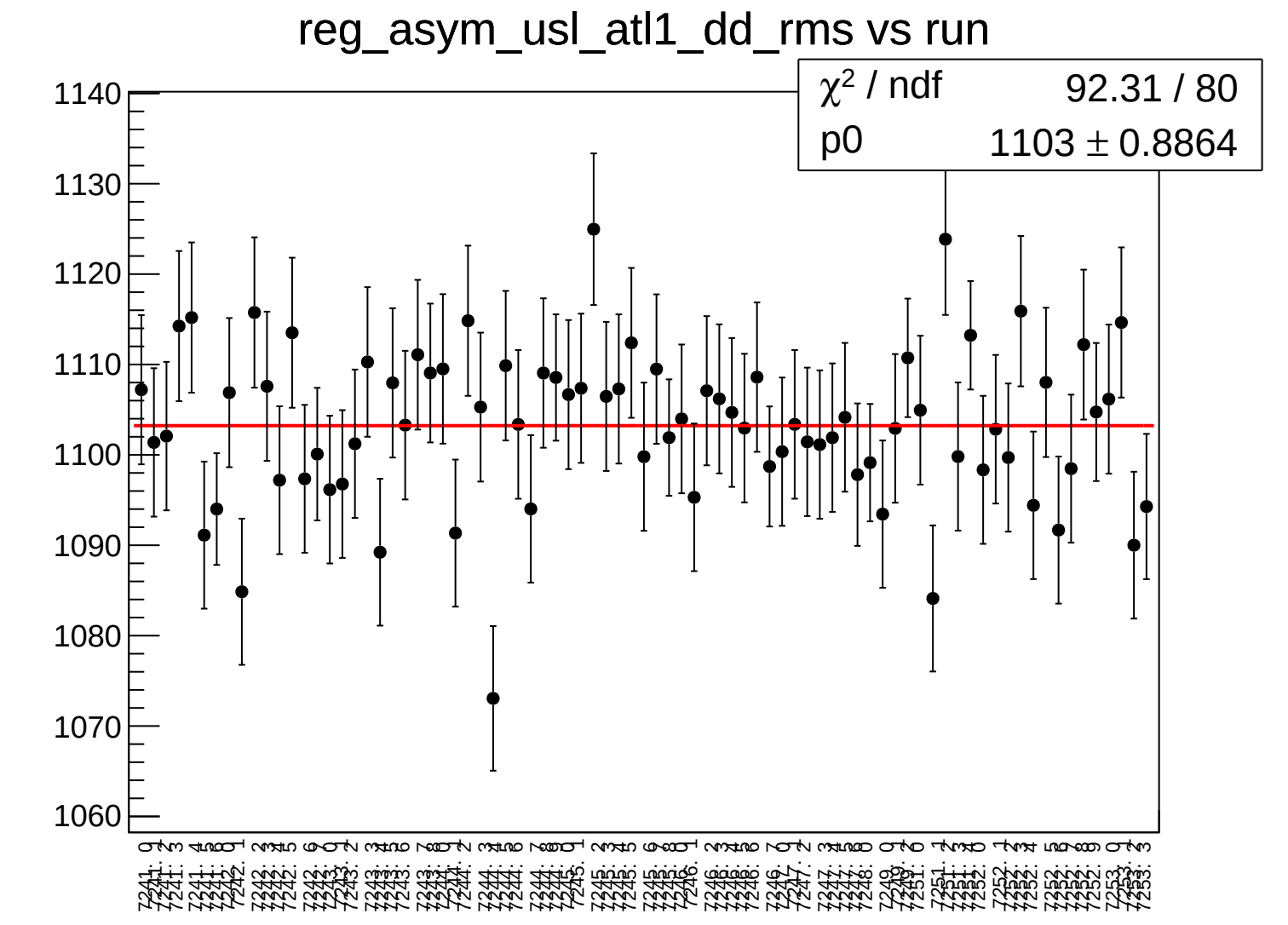

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.14 / 80
p0 8.059e−15 ± 1.22e−14
pull
Entries 81
Mean 101.4
Std Dev 0

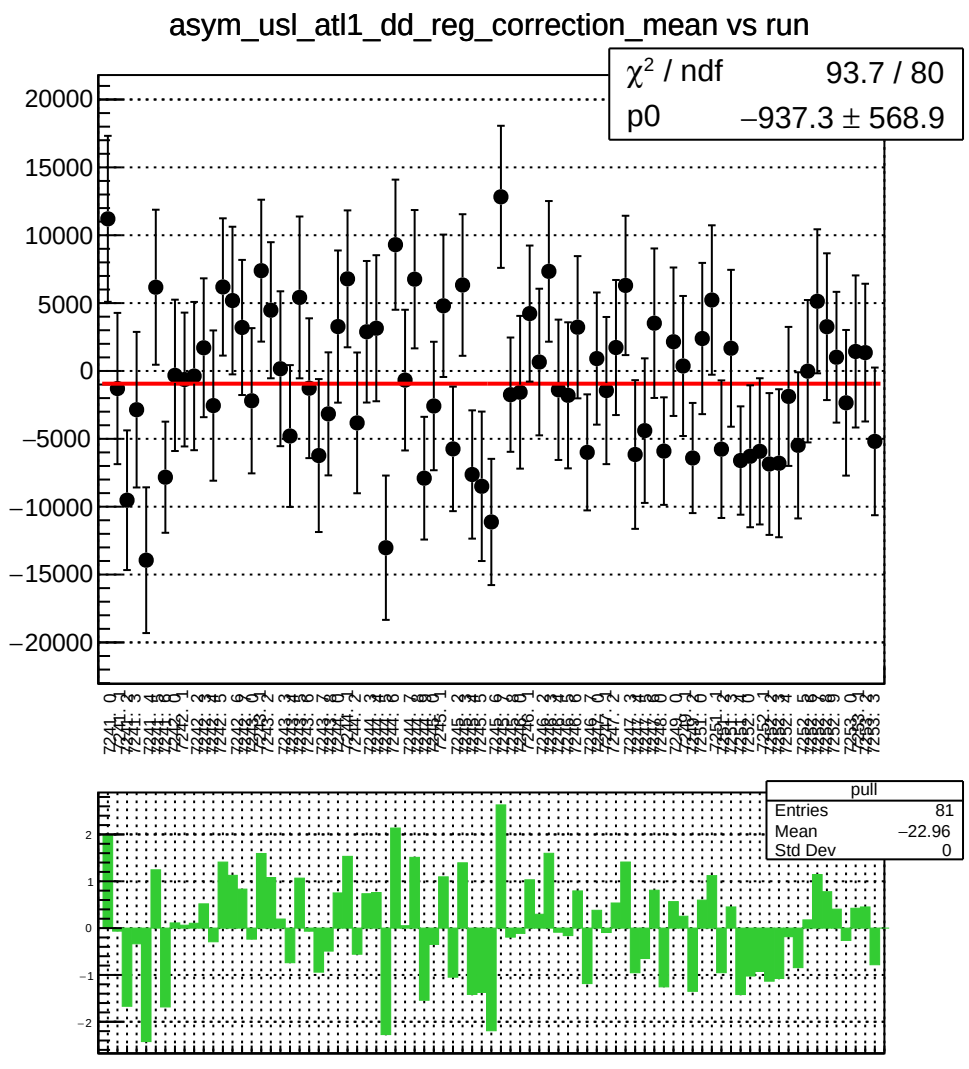

pull1D
Entries 81
Mean −0.02506
Std Dev 0.9943

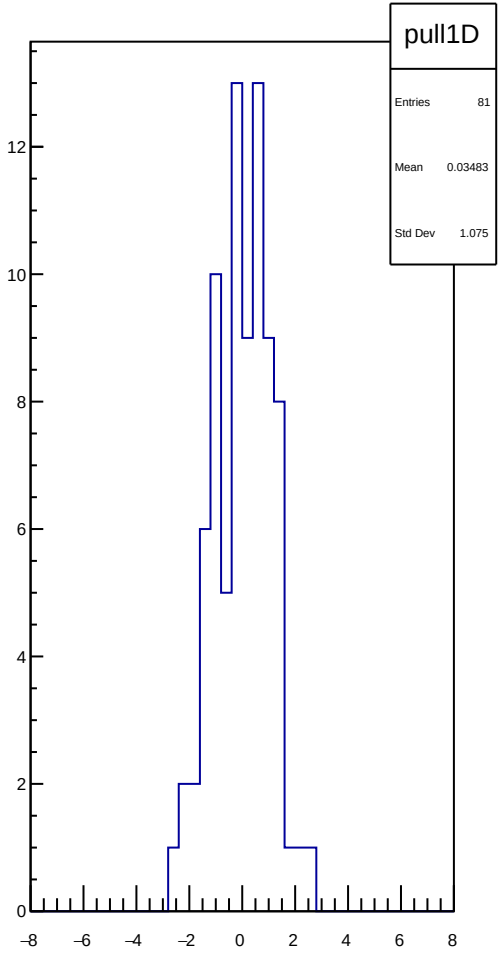

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.219e+05 / 80
p0 9.158e−12 ± 8.625e−15
60
50
40
30
20
10

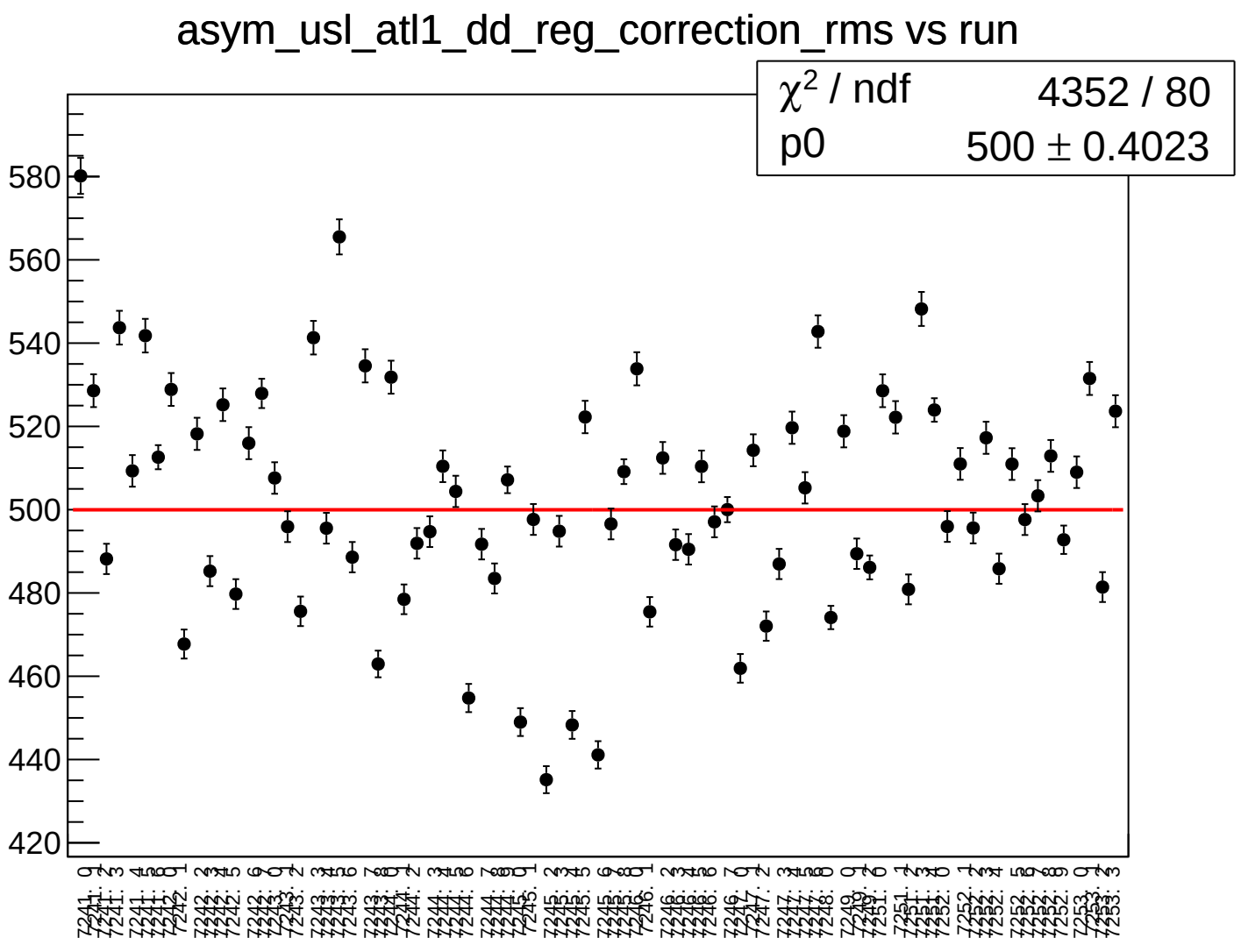

reg_asym_usl_atl1_dd_mean vs run
χ^2 / ndf 89.17 / 80
p0 199.5 ± 1254
pull
Entries 81
Mean −189.9
Std Dev 0

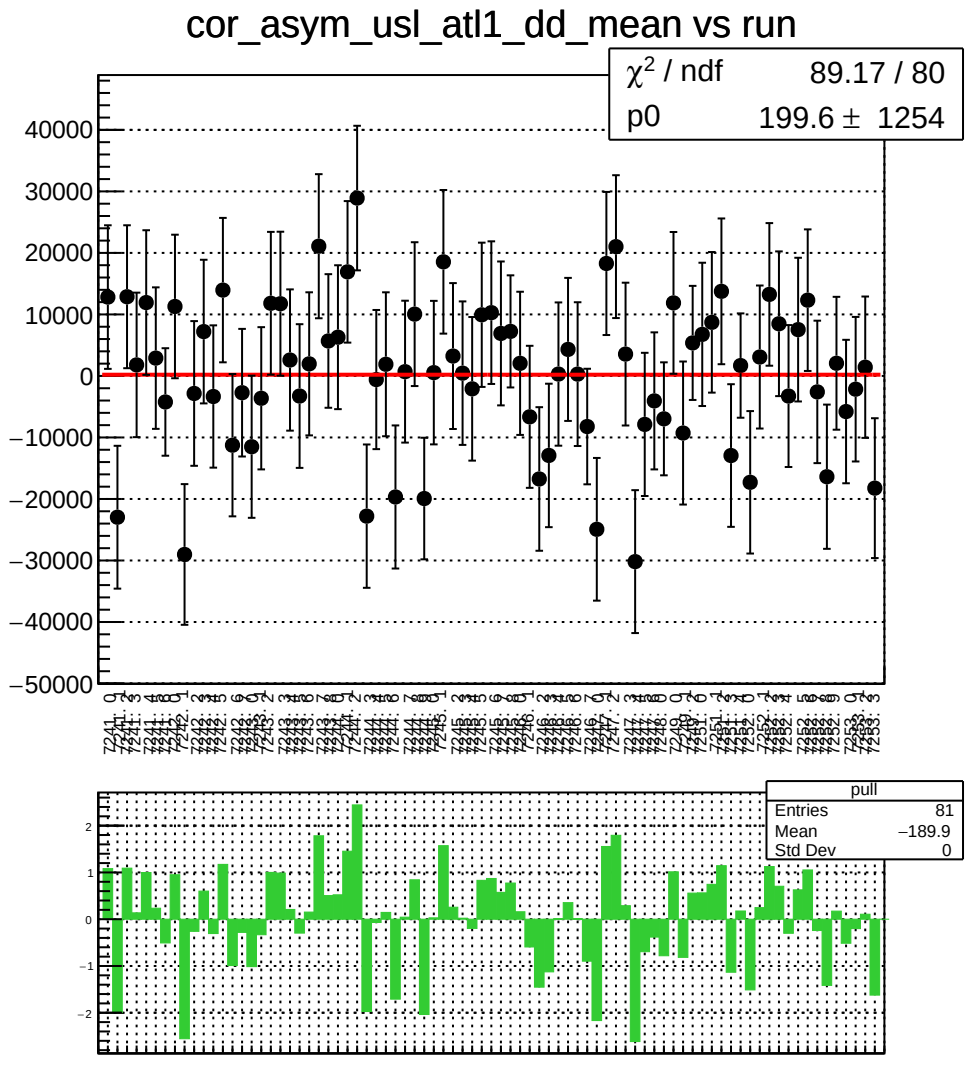

pull1D
Entries 81
Mean 0.008607
Std Dev 1.049

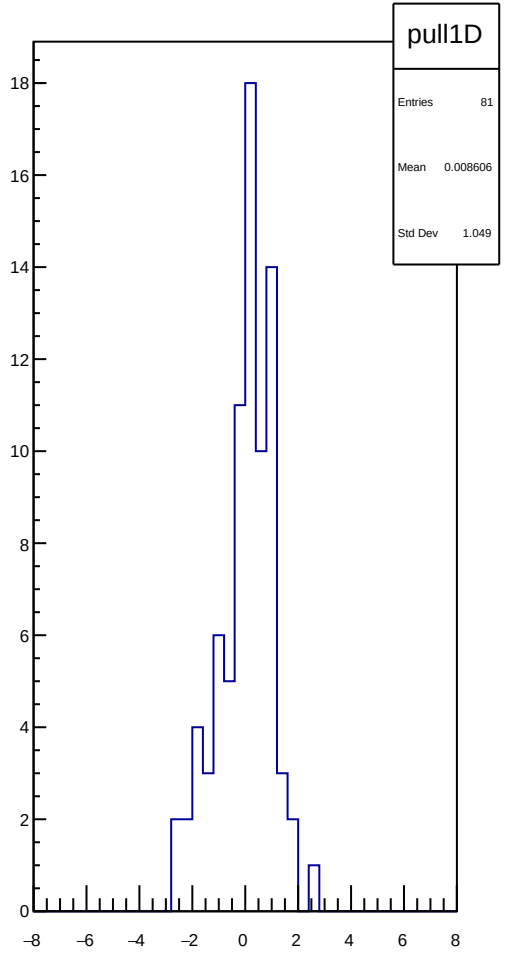

reg_asym_usl_atl1_dd_rms vs run
χ² / ndf 92.31 / 80
p0 1103 ± 0.8864
1140
1130
1120
1110
1100
1090
1080
1070
1060

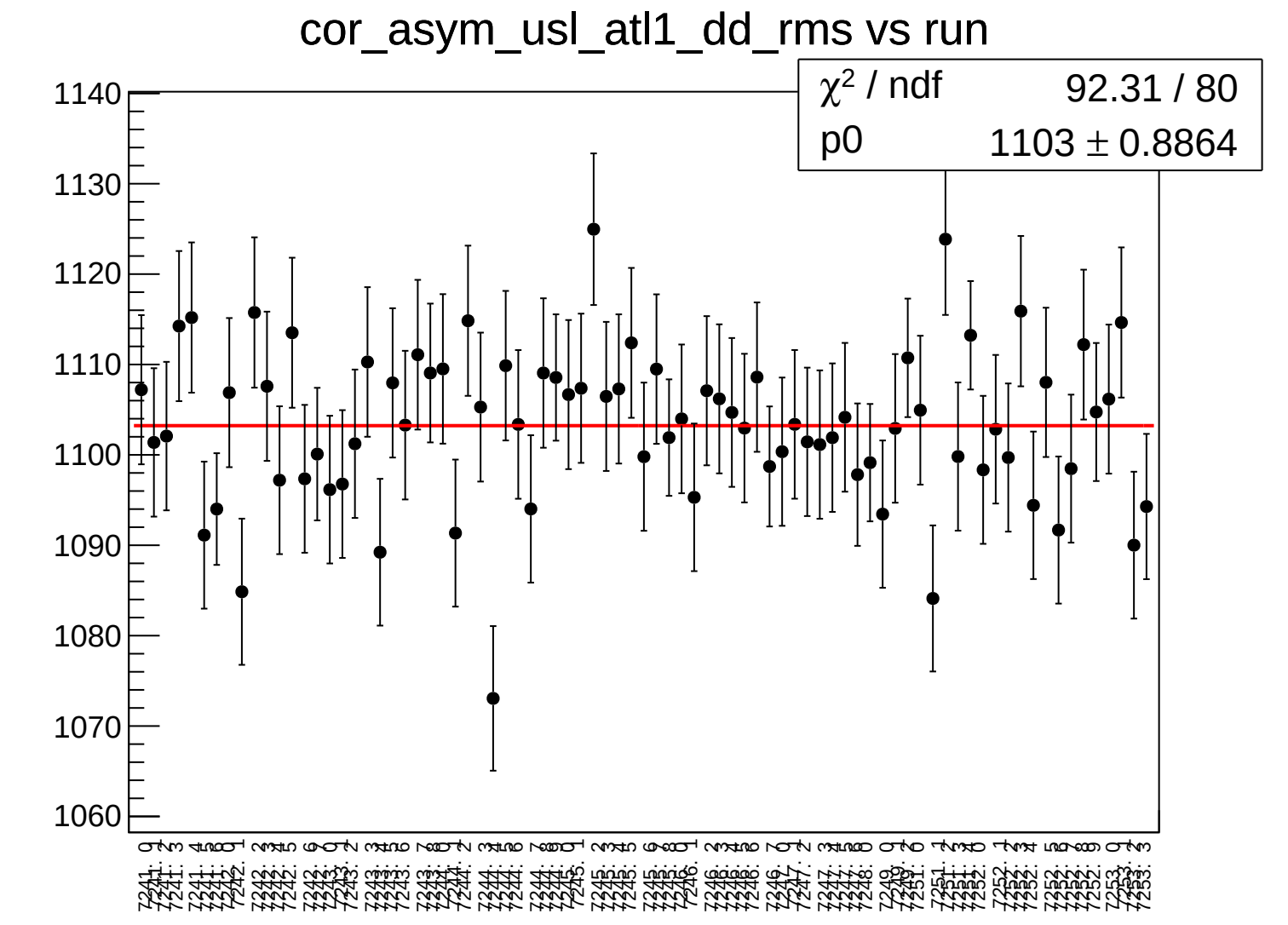

asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 93.7 / 80
p0 −937.3 ± 568.9
pull
Entries 81
Mean −22.96
Std Dev 0

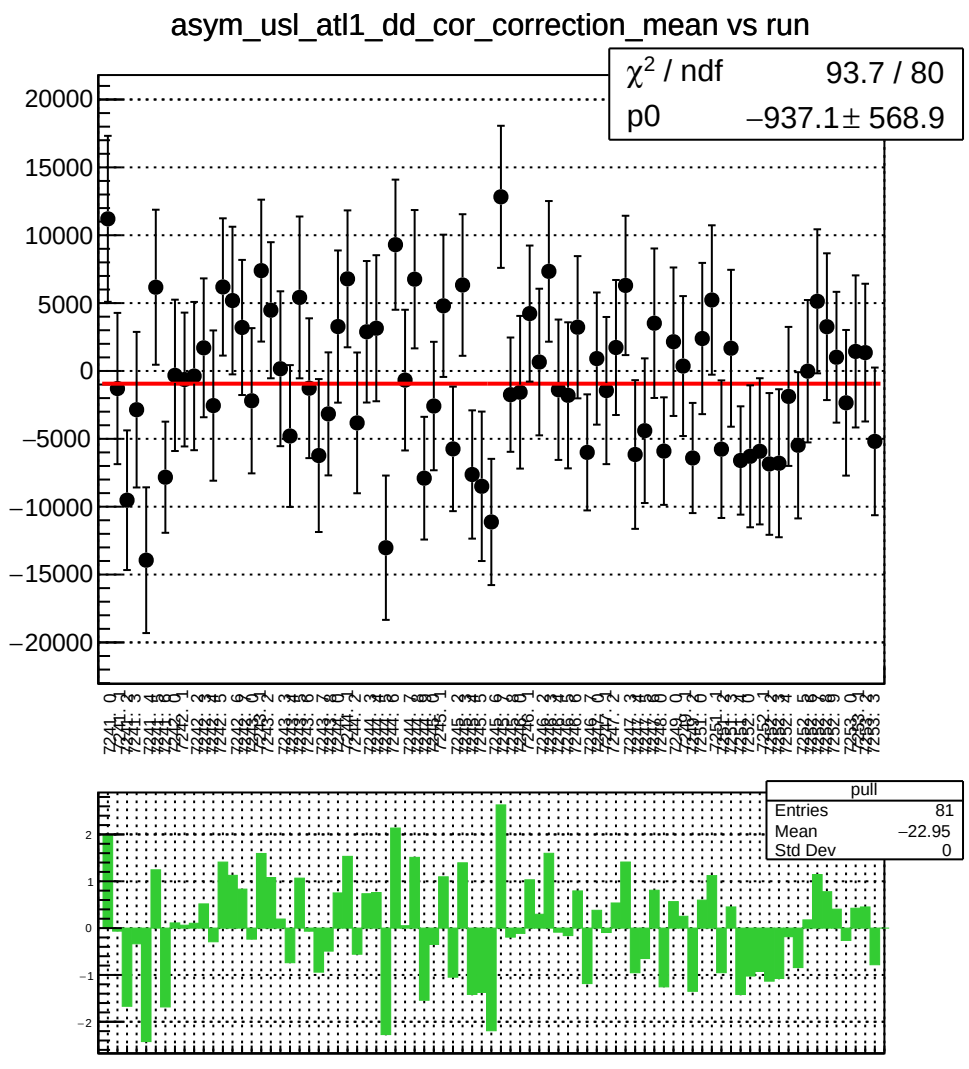

pull1D
Entries 81
Mean 0.03483
Std Dev 1.075

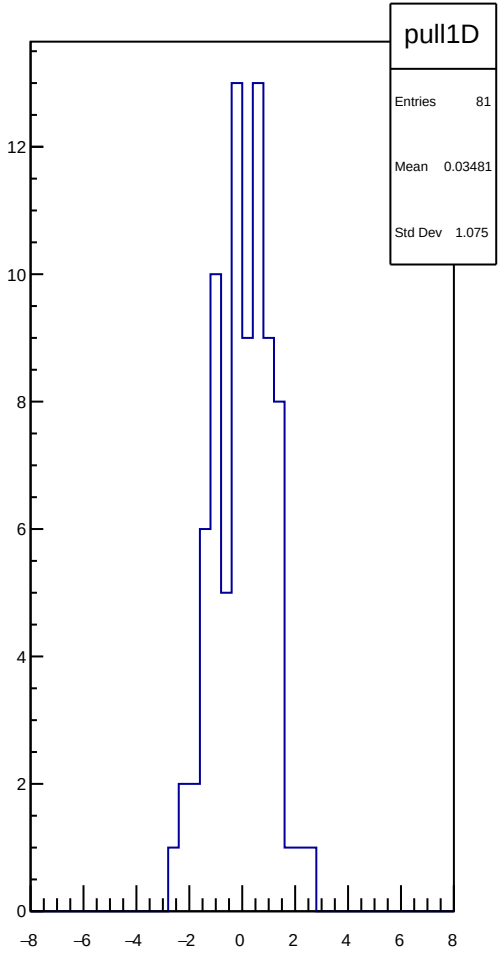

asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 4352 / 80
p0 500 ± 0.4023
580
560
540
520
500
480
460
440
420

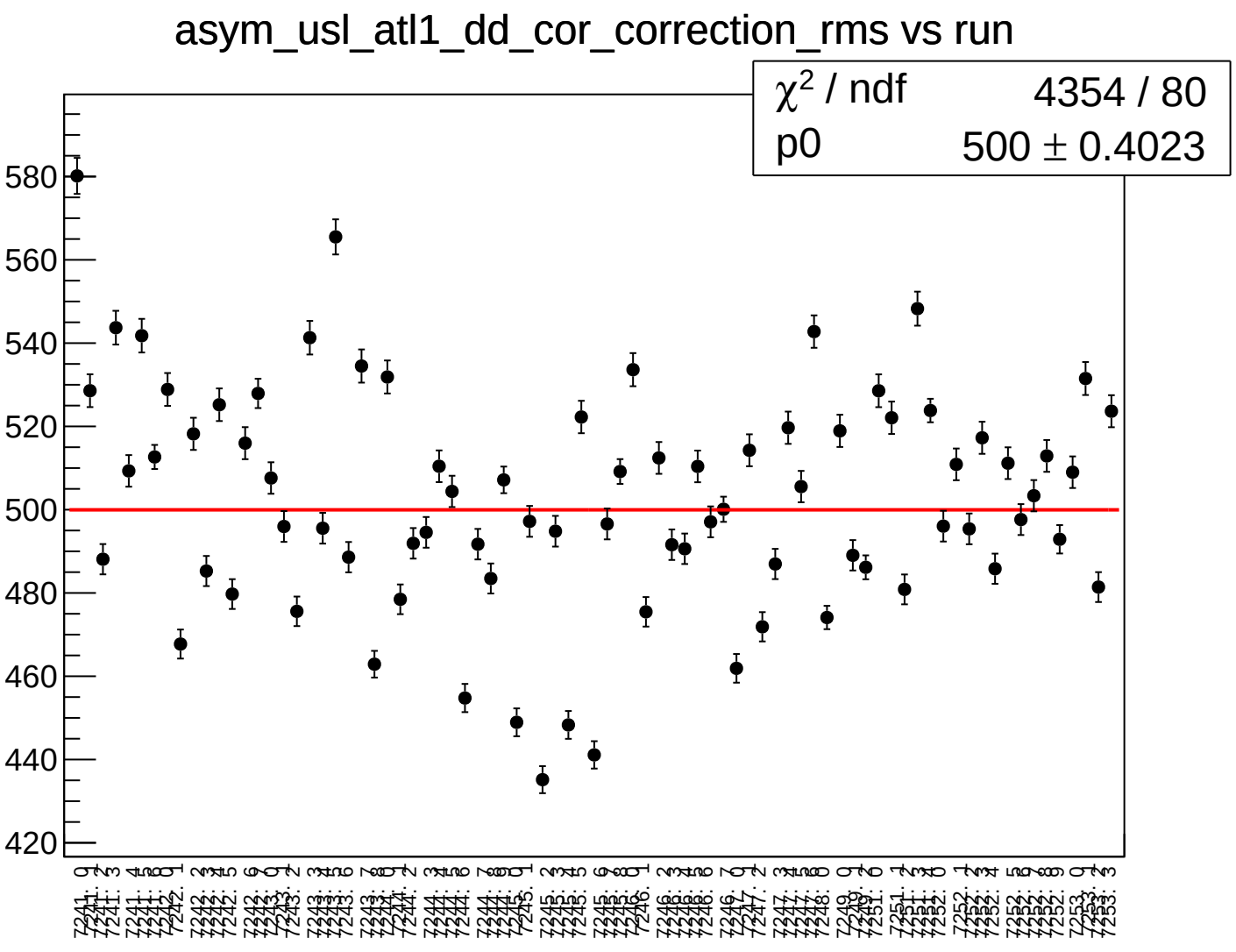

cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 89.17 / 80
p0 199.6 ± 1254
pull
Entries 81
Mean −189.9
Std Dev 0

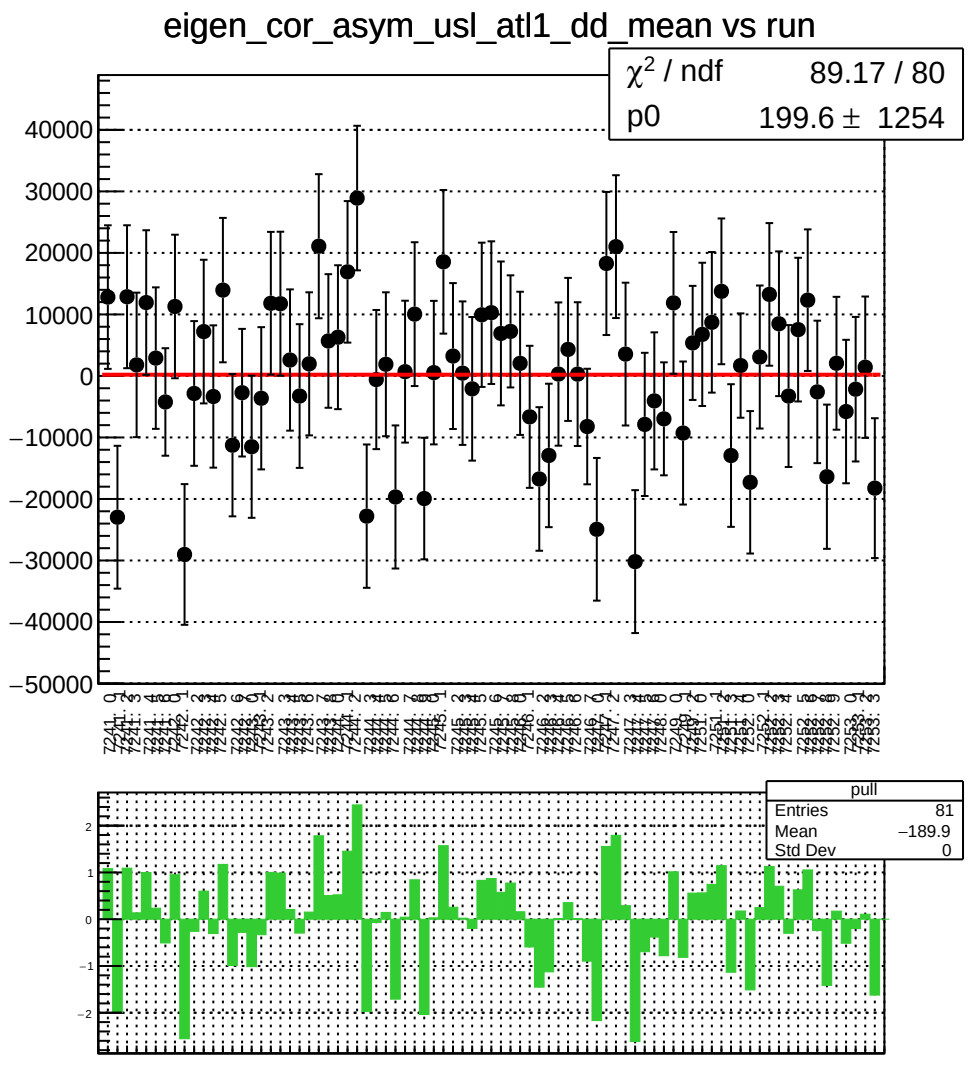

pull1D
Entries 81
Mean 0.008606
Std Dev 1.049

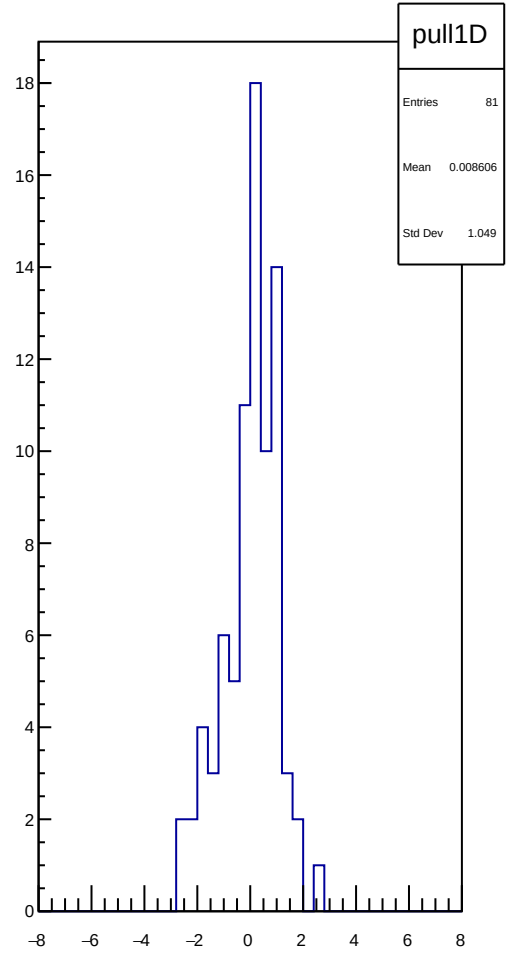

cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 92.31 / 80
p0 1103 ± 0.8864
1140
1130
1120
1110
1100
1090
1080
1070
1060

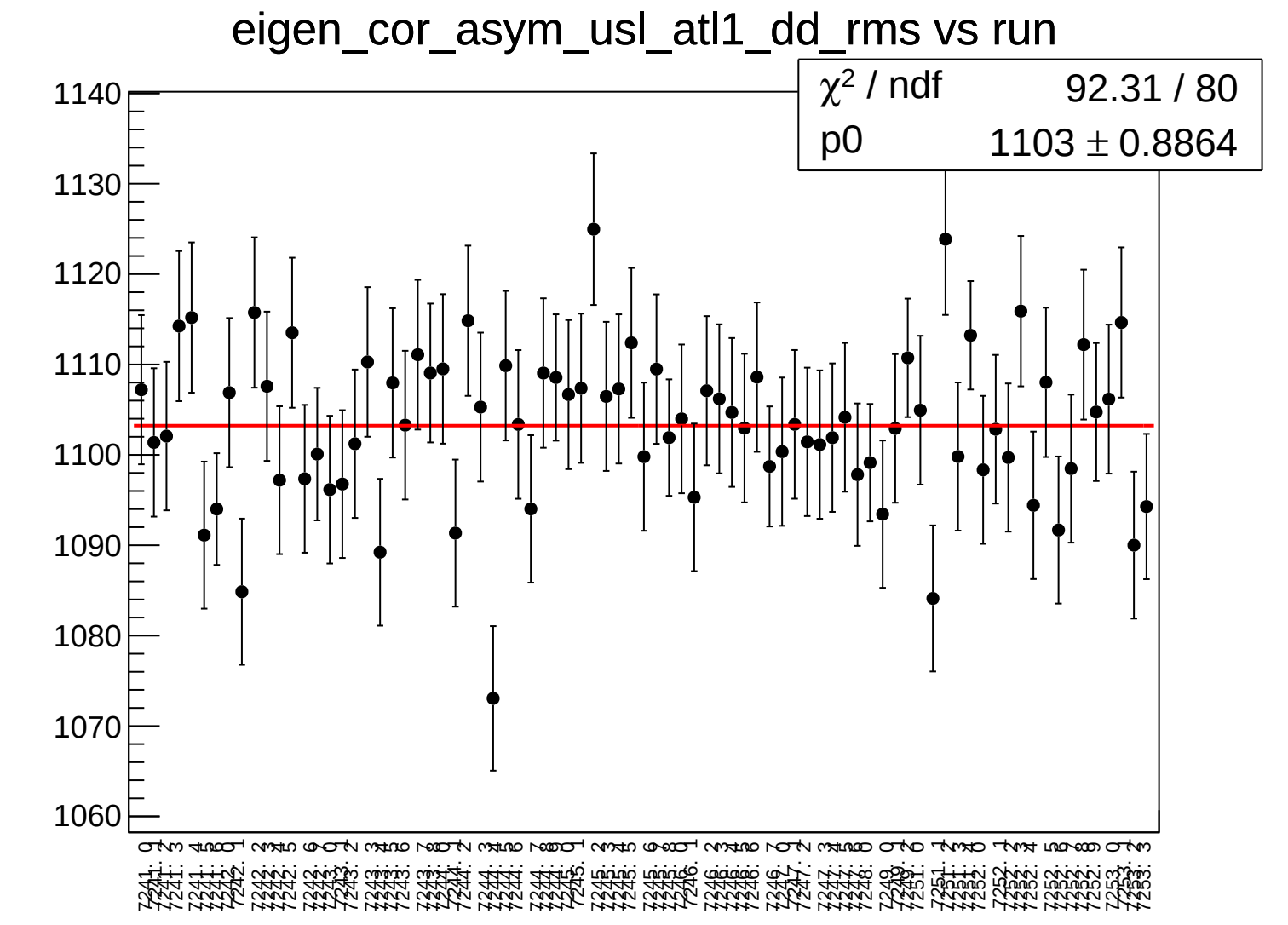

asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 93.7 / 80
p0 −937.1 ± 568.9
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 81
Mean −22.95
Std Dev 0
2
1
0
−1
−2

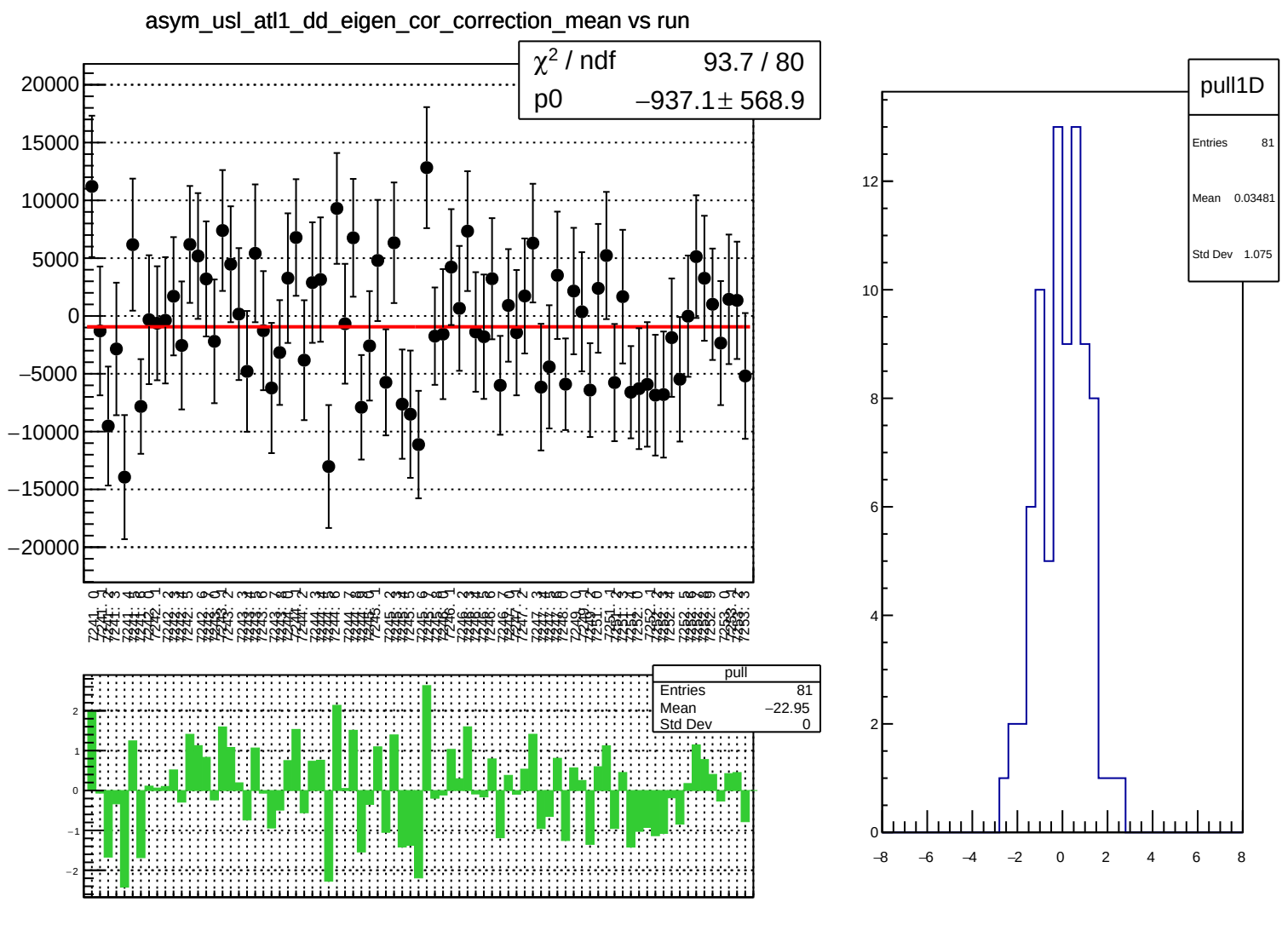

pull1D
Entries 81
Mean 0.03481
Std Dev 1.075
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

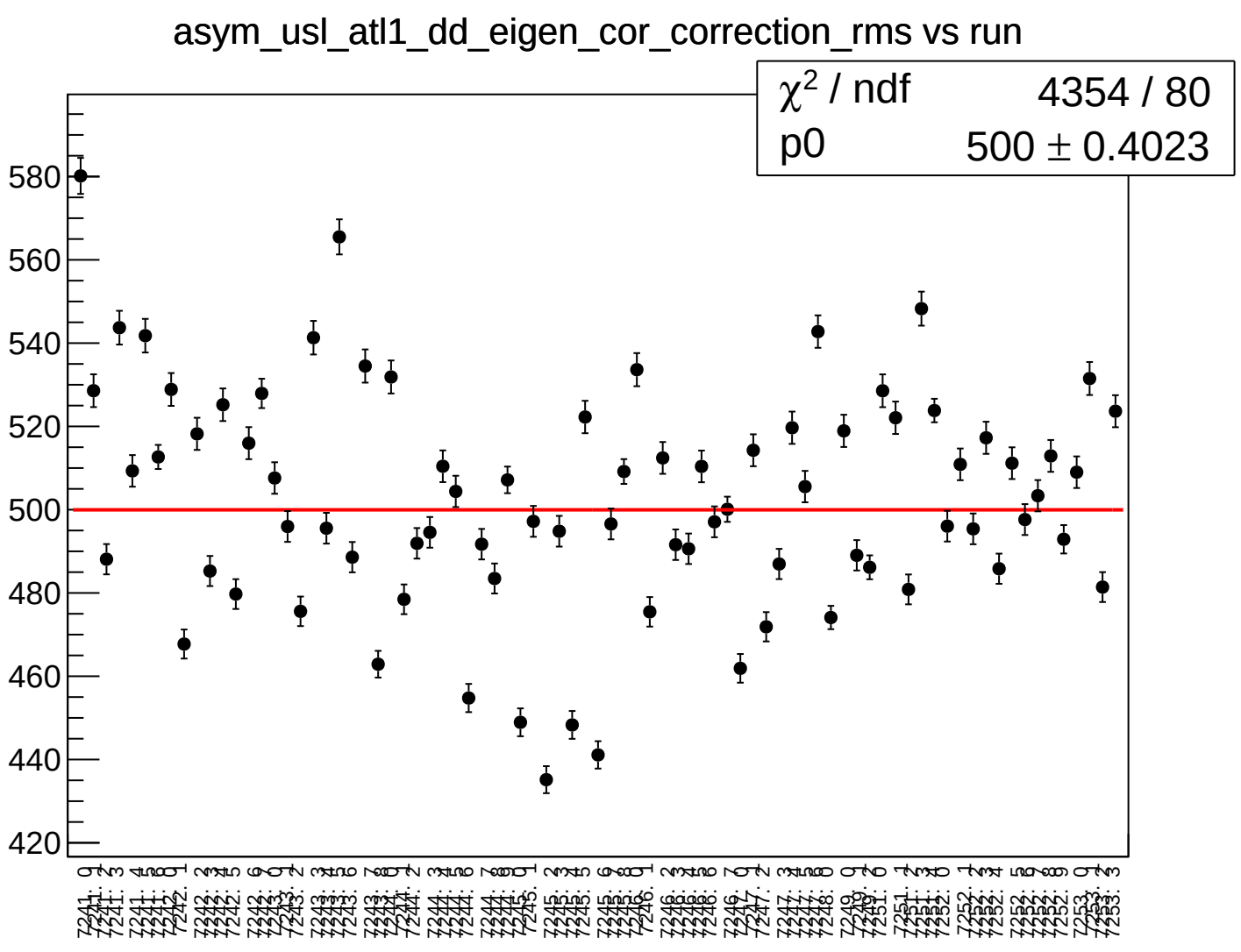

asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 4354 / 80
p0 500 ± 0.4023
580
560
540
520
500
480
460
440
420

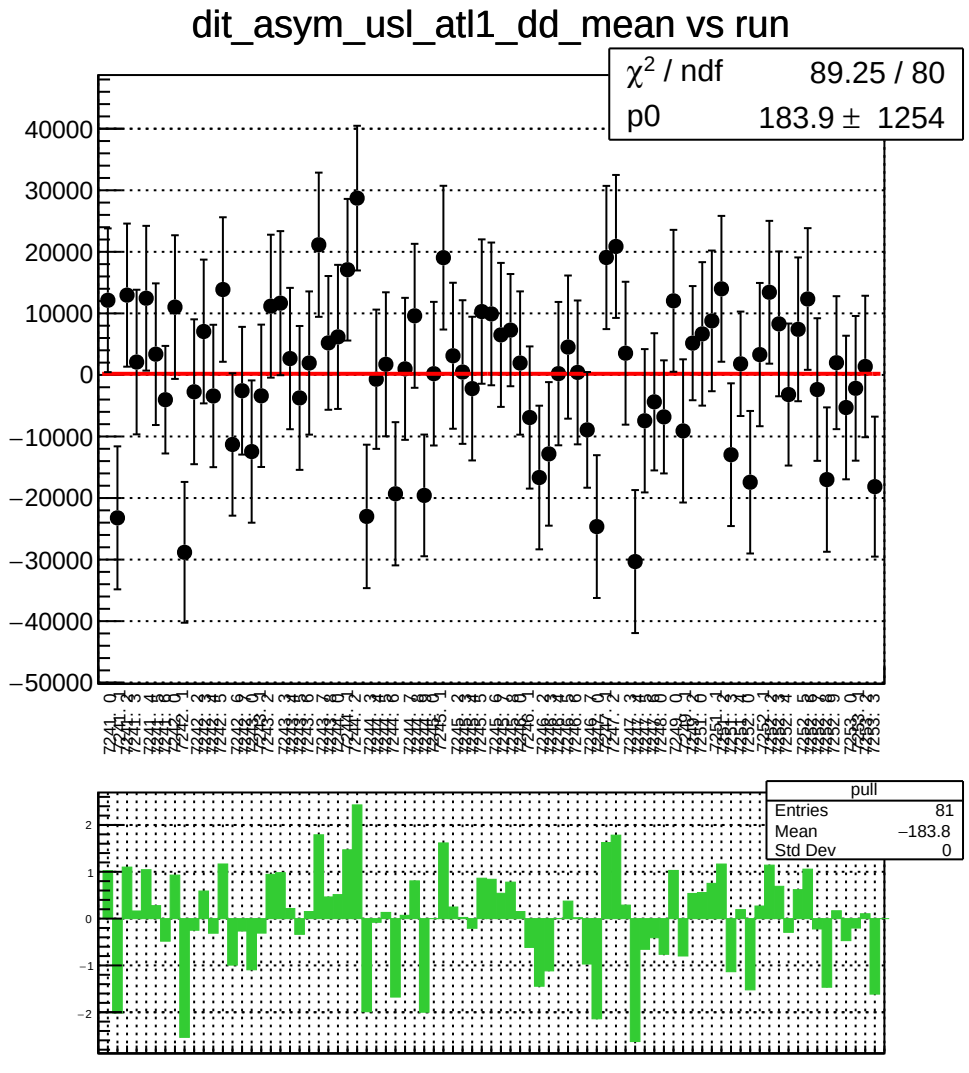

eigen_cor_asym_usl_atl1_dd_mean vs run
χ^2 / ndf 89.17 / 80
p0 199.6 ± 1254
pull
Entries 81
Mean −189.9
Std Dev 0

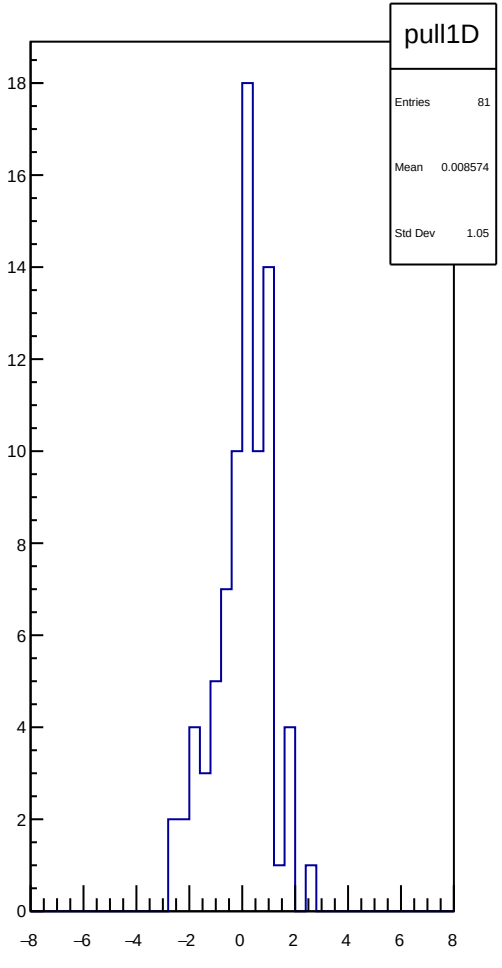

pull1D
Entries 81
Mean 0.008606
Std Dev 1.049

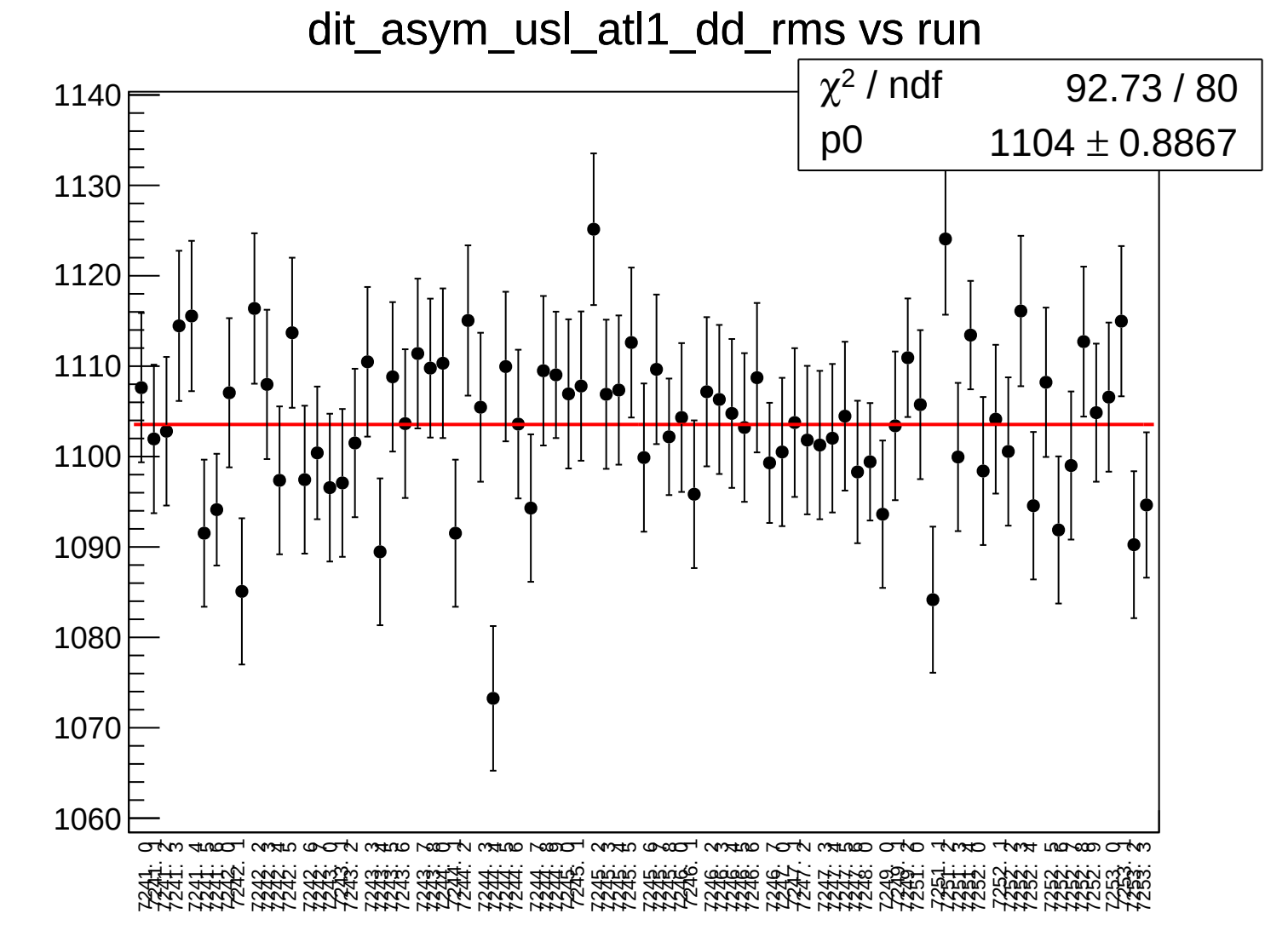

eigen_cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 92.31 / 80
p0 1103 ± 0.8864
1140
1130
1120
1110
1100
1090
1080
1070
1060

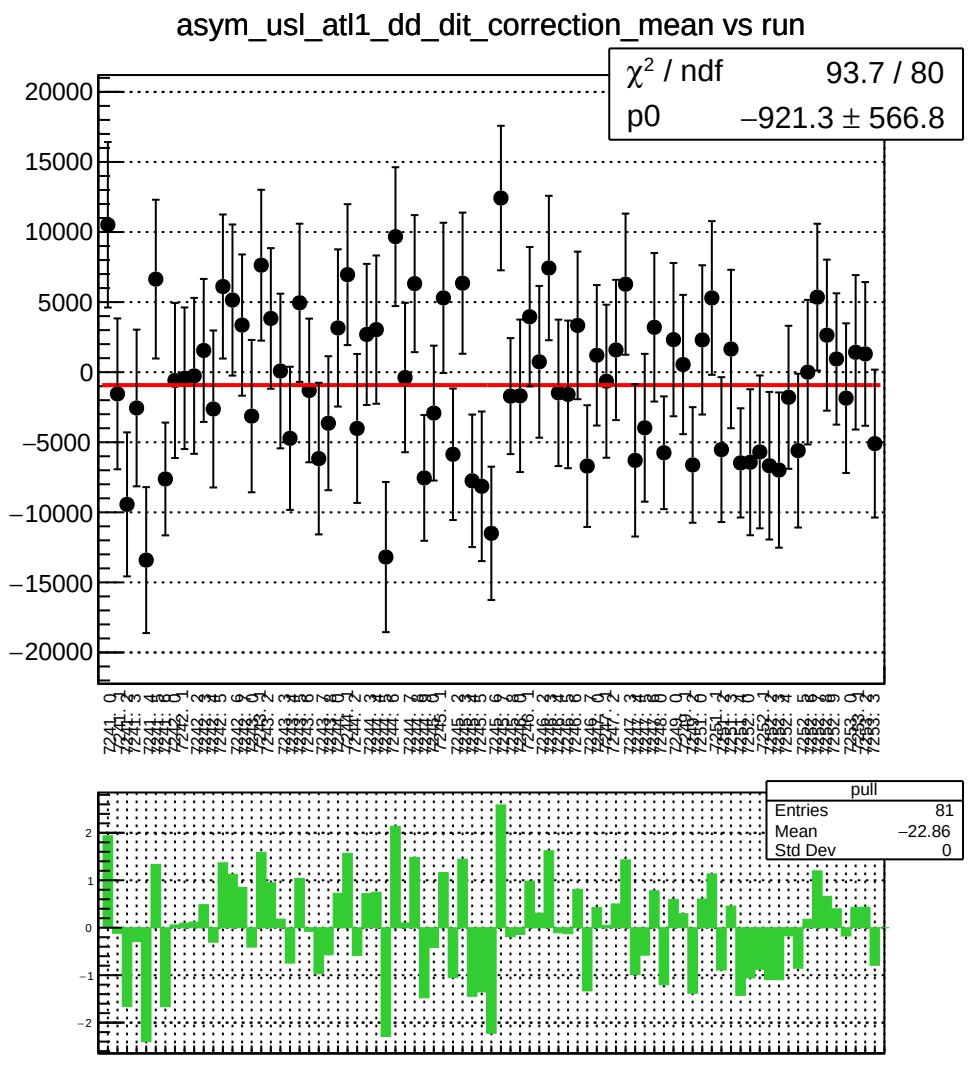

asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 93.7 / 80
p0 −937.1 ± 568.9
pull
Entries 81
Mean −22.95
Std Dev 0
pull1D
Entries 81
Mean 0.03481
Std Dev 1.075

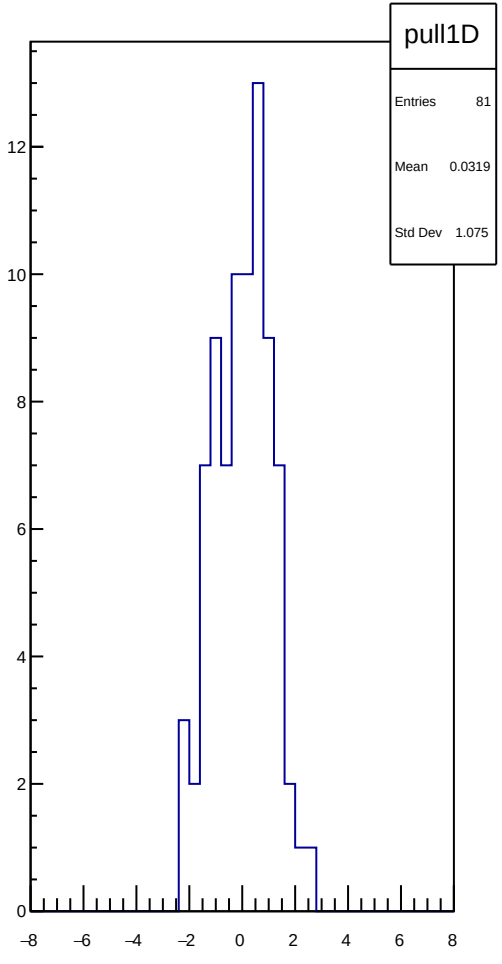

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 4354 / 80
p0 500 ± 0.4023
580
560
540
520
500
480
460
440
420

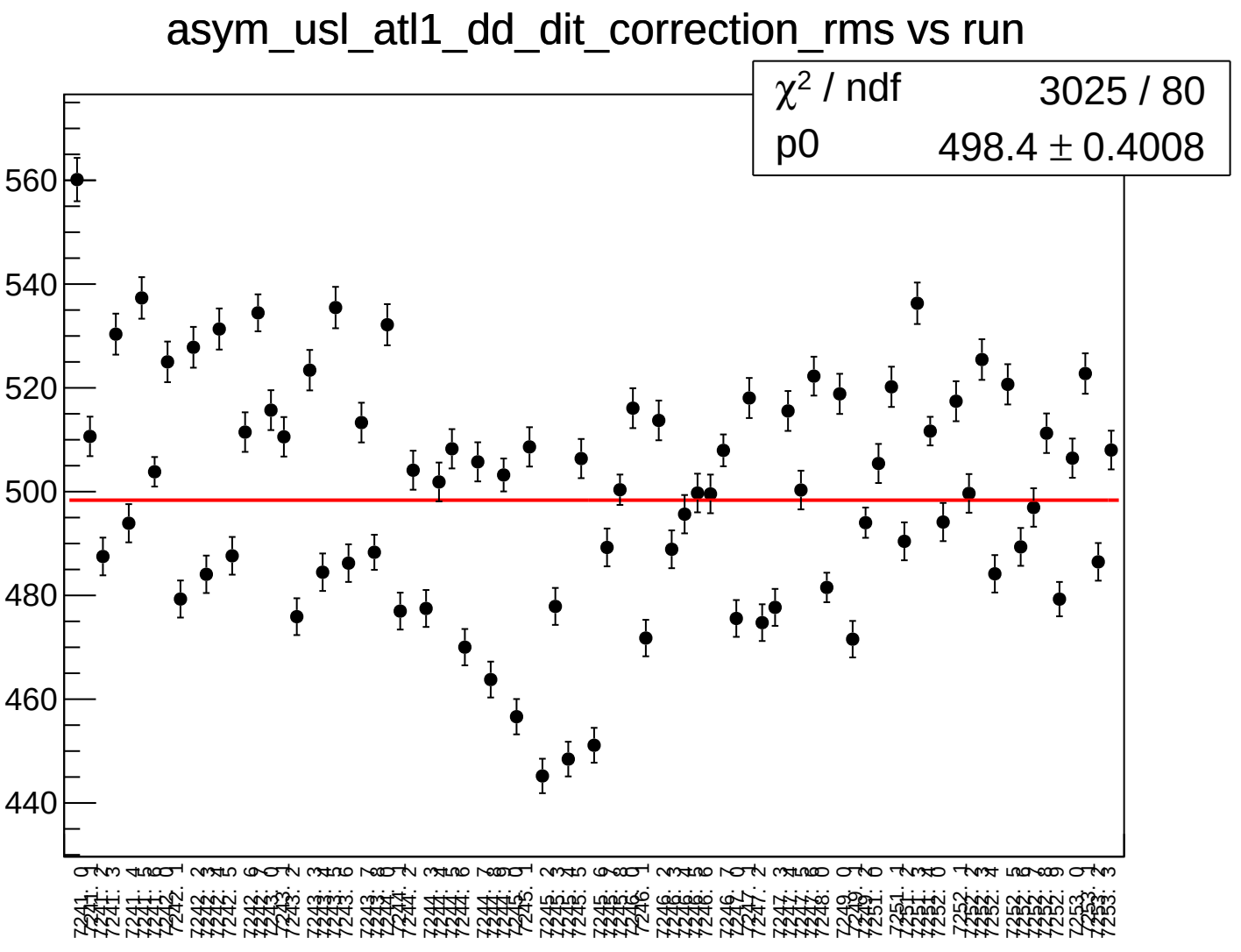

dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 89.25 / 80
p0 183.9 ± 1254
pull
Entries 81
Mean −183.8
Std Dev 0

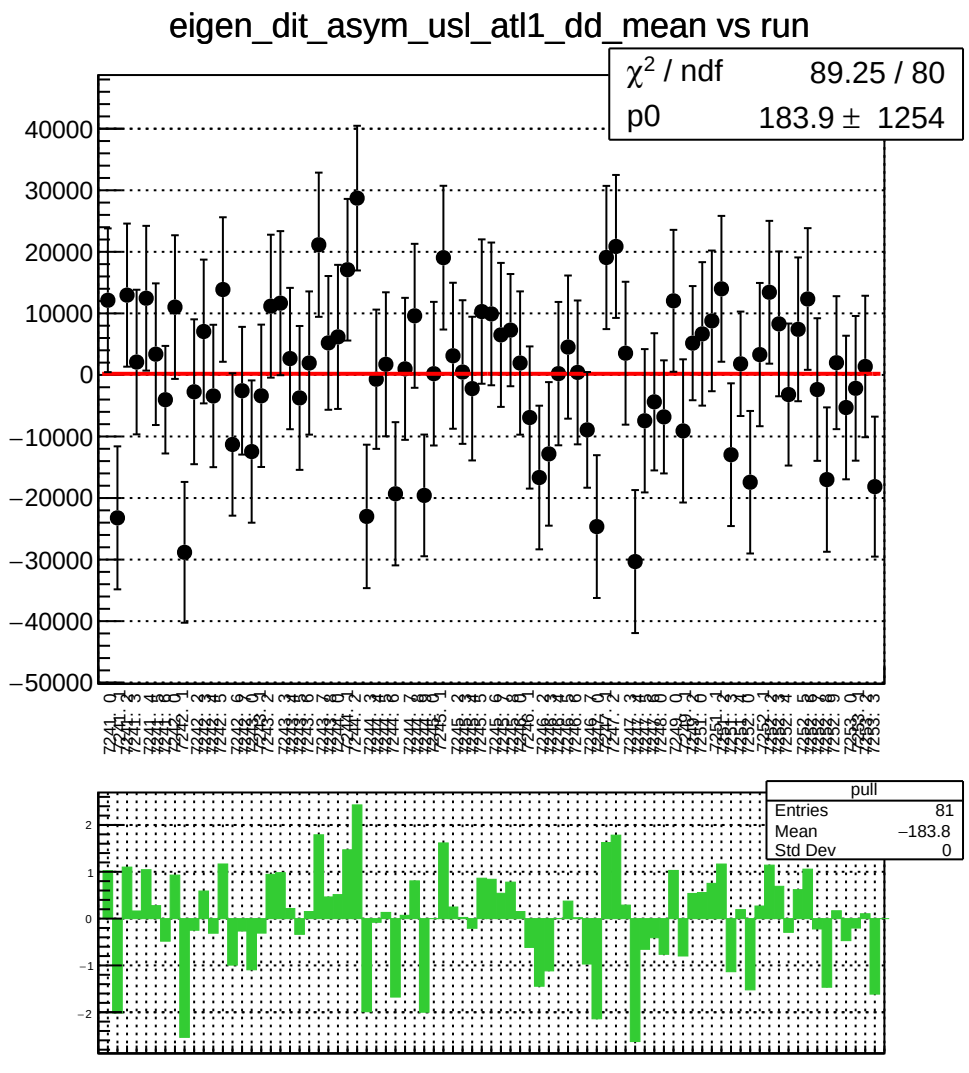

pull1D
Entries 81
Mean 0.008574
Std Dev 1.05

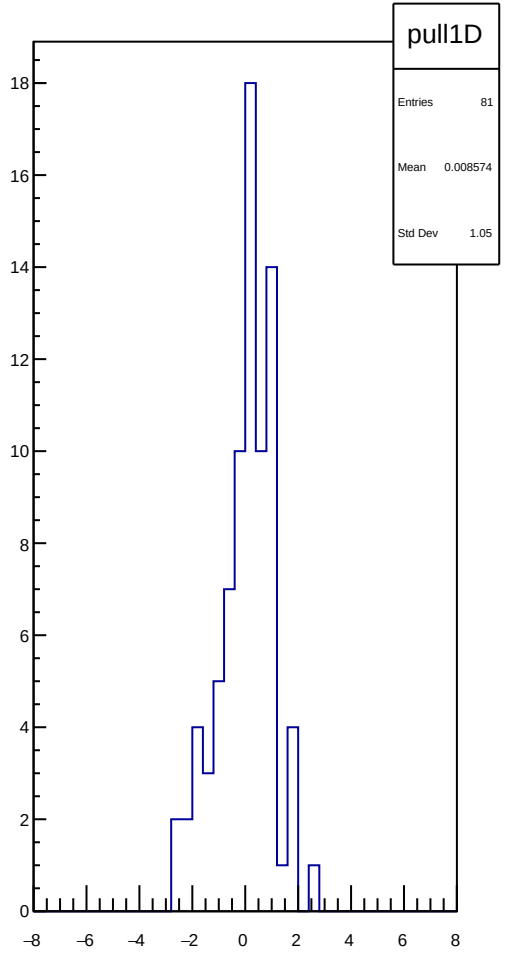

dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 92.73 / 80
p0 1104 ± 0.8867
1140
1130
1120
1110
1100
1090
1080
1070
1060

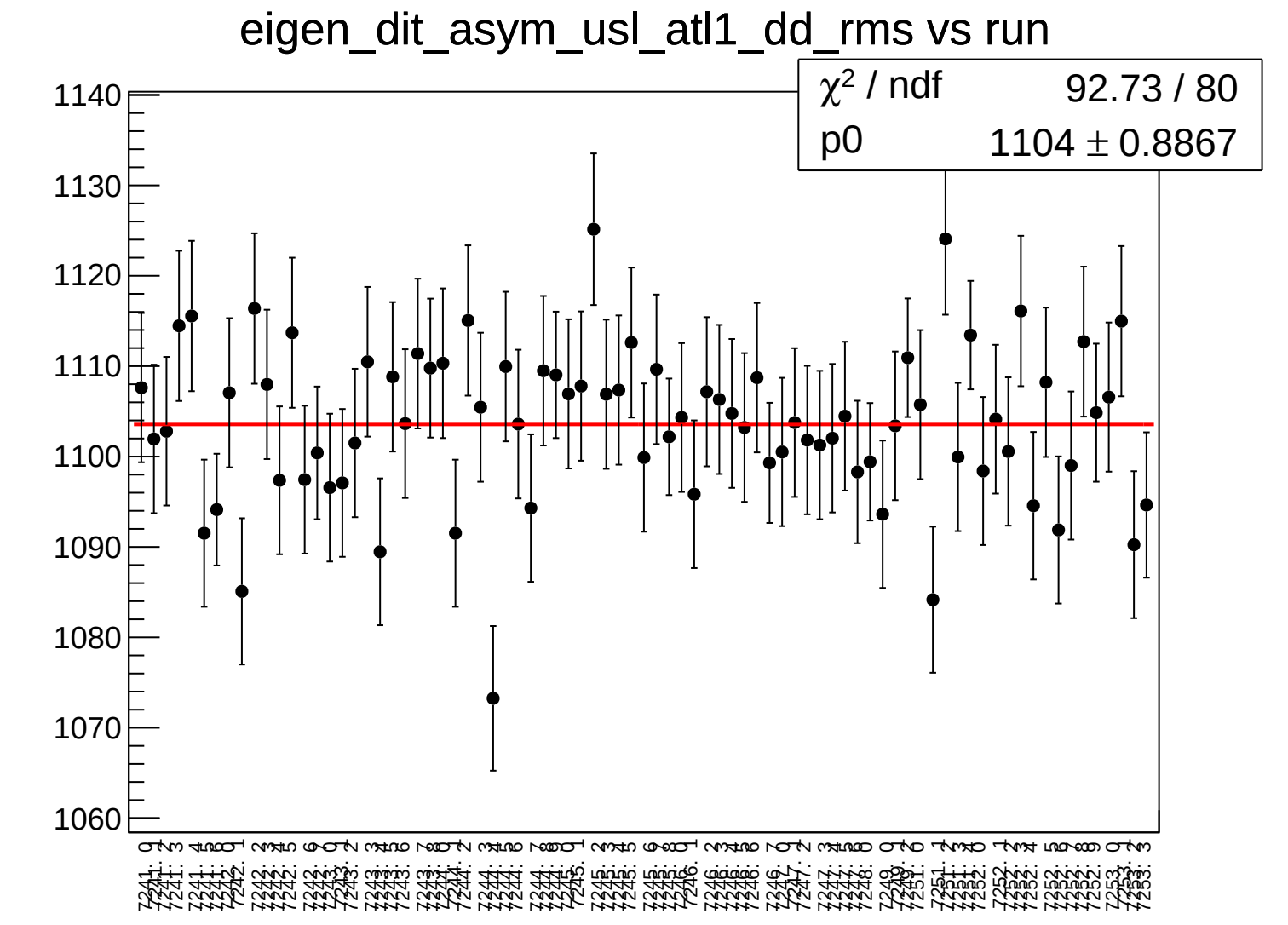

asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 93.7 / 80
p0 −921.3 ± 566.8
pull
Entries 81
Mean −22.86
Std Dev 0

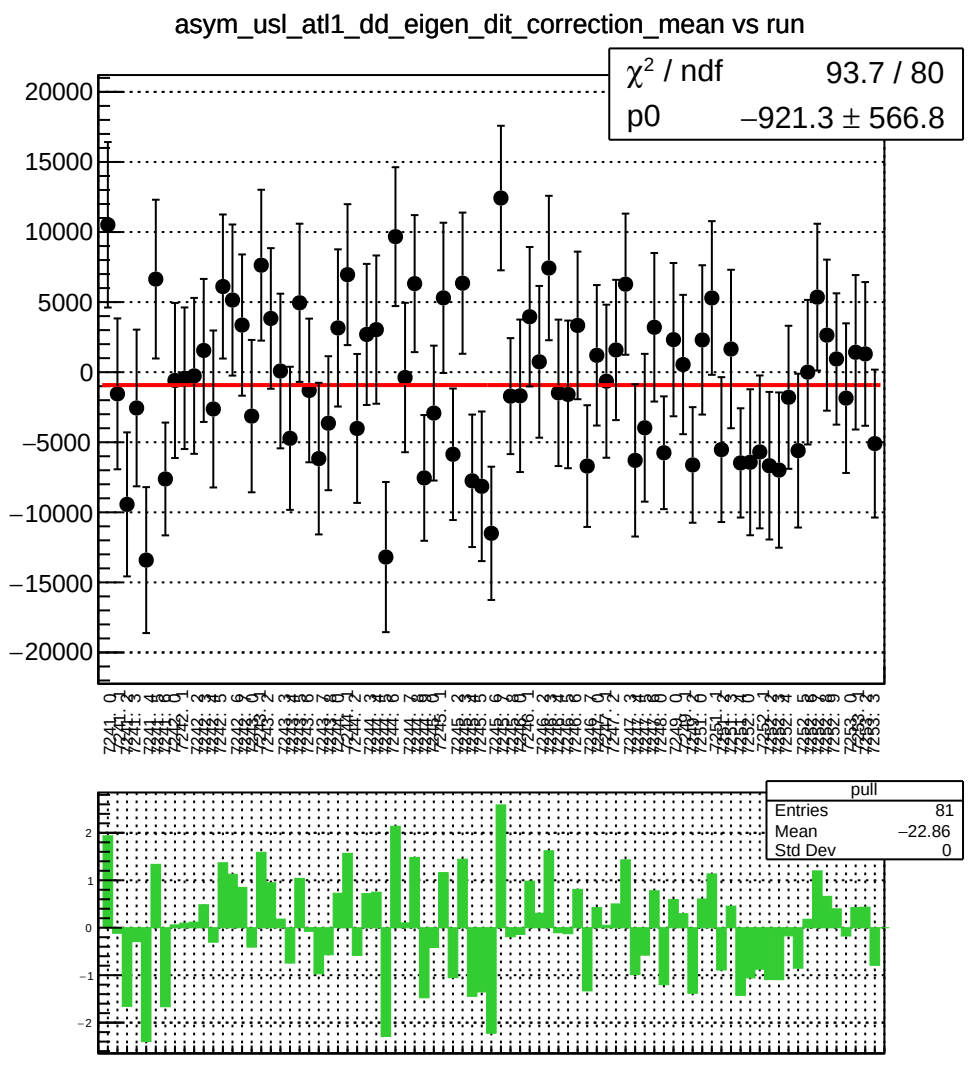

pull1D
Entries 81
Mean 0.0319
Std Dev 1.075

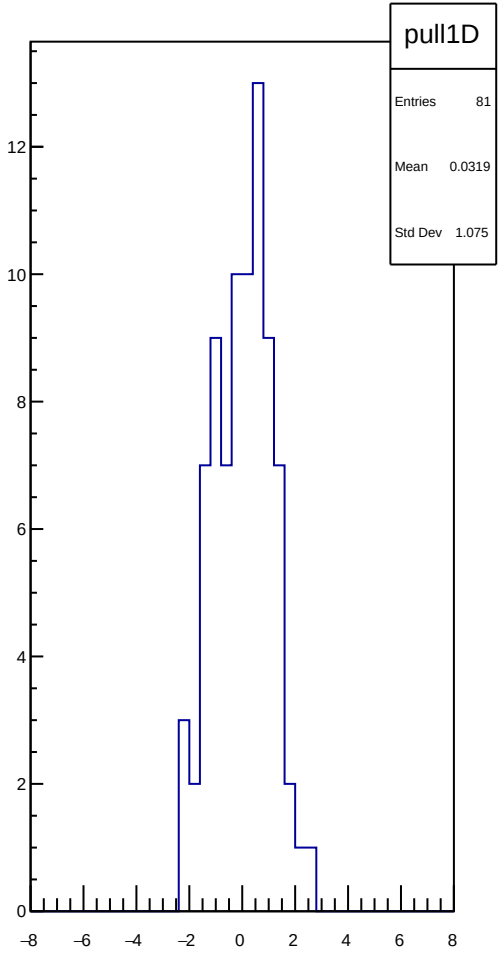

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 3025 / 80
p0 498.4 ± 0.4008
560
540
520
500
480
460
440

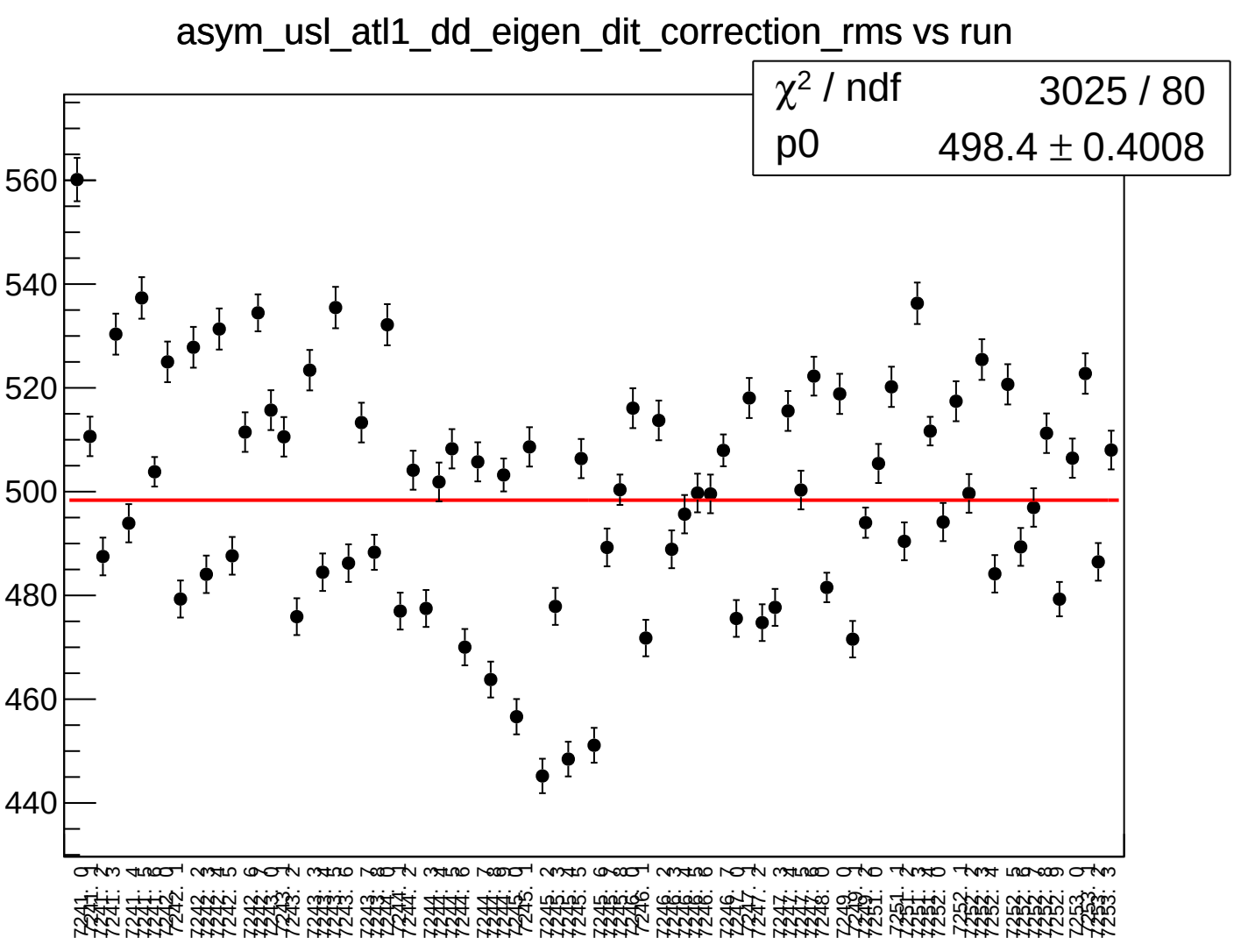

eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 89.25 / 80
p0 183.9 ± 1254
pull
Entries 81
Mean −183.8
Std Dev 0

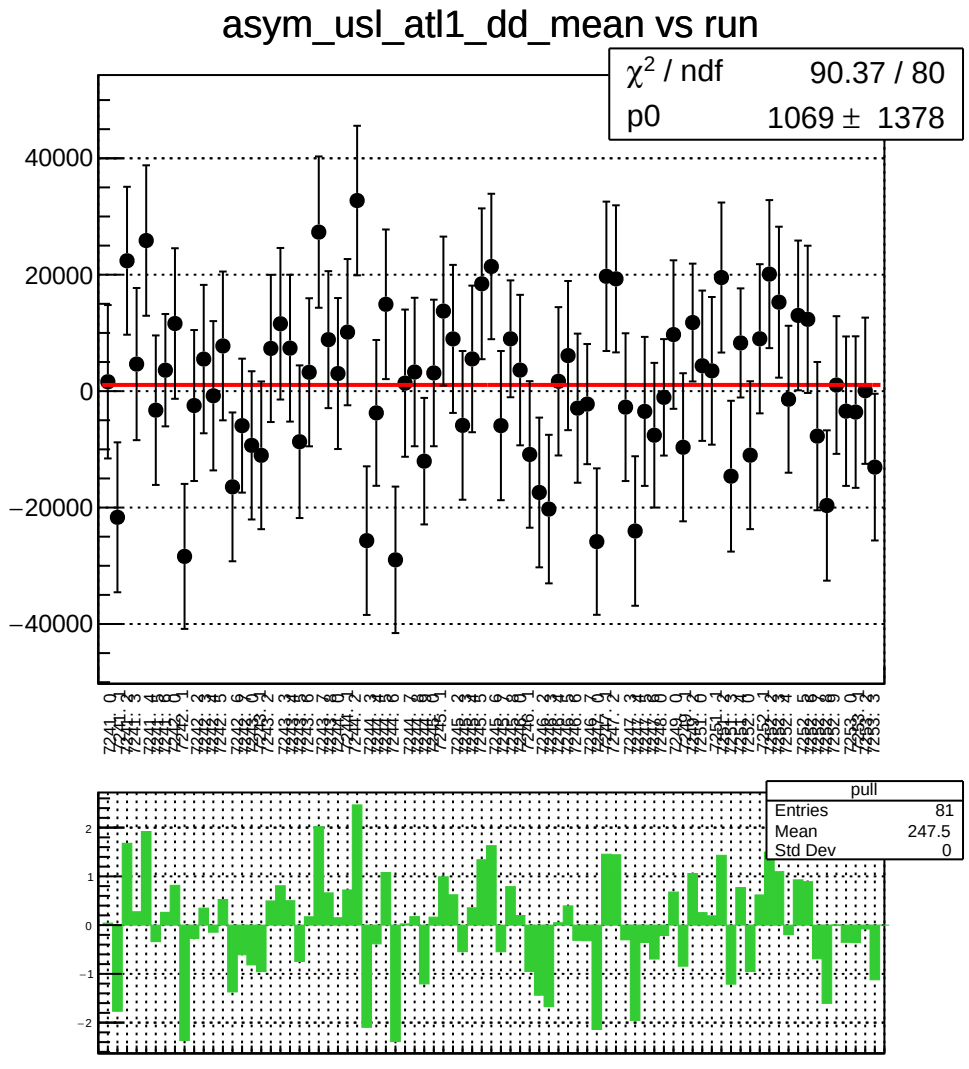

pull1D
Entries 81
Mean 0.008574
Std Dev 1.05

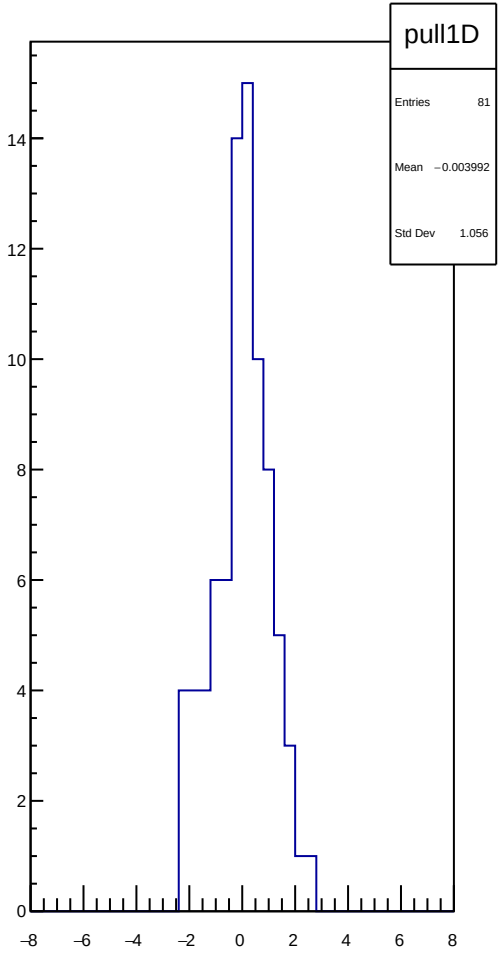

eigen_dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 92.73 / 80
p0 1104 ± 0.8867
1140
1130
1120
1110
1100
1090
1080
1070
1060

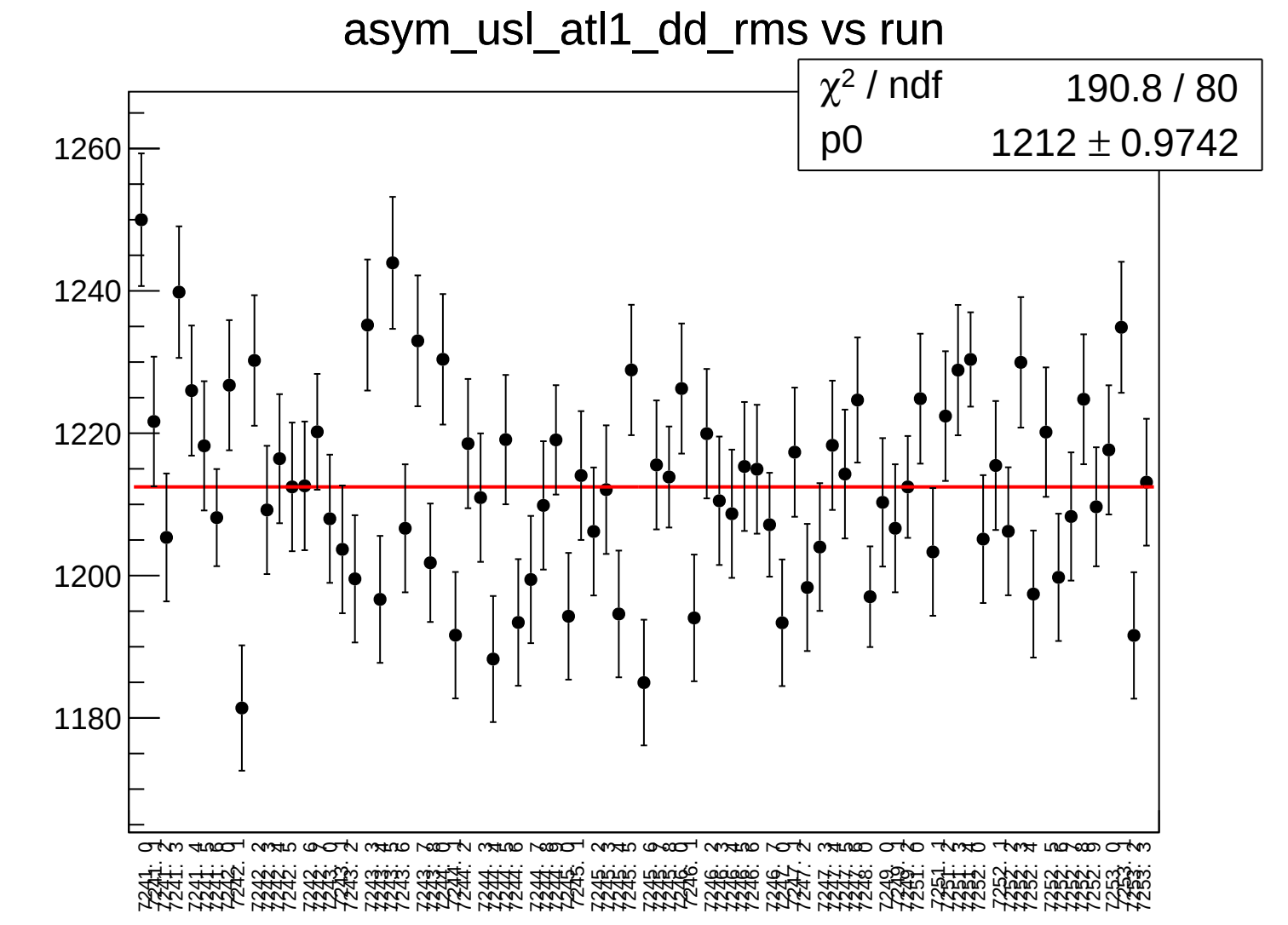

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 93.7 / 80
p0 −921.3 ± 566.8
pull
Entries 81
Mean −22.86
Std Dev 0

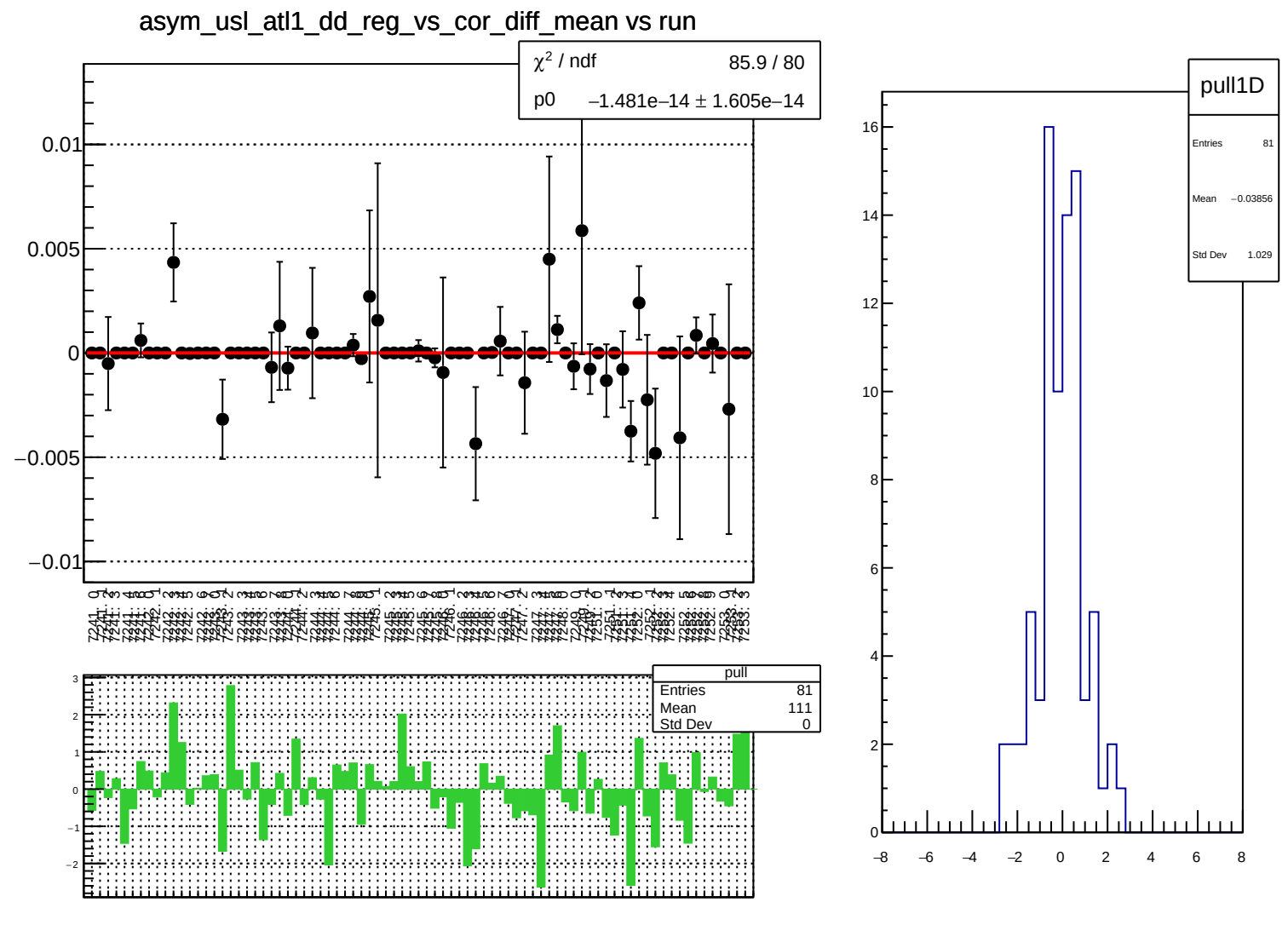

pull1D
Entries 81
Mean 0.0319
Std Dev 1.075

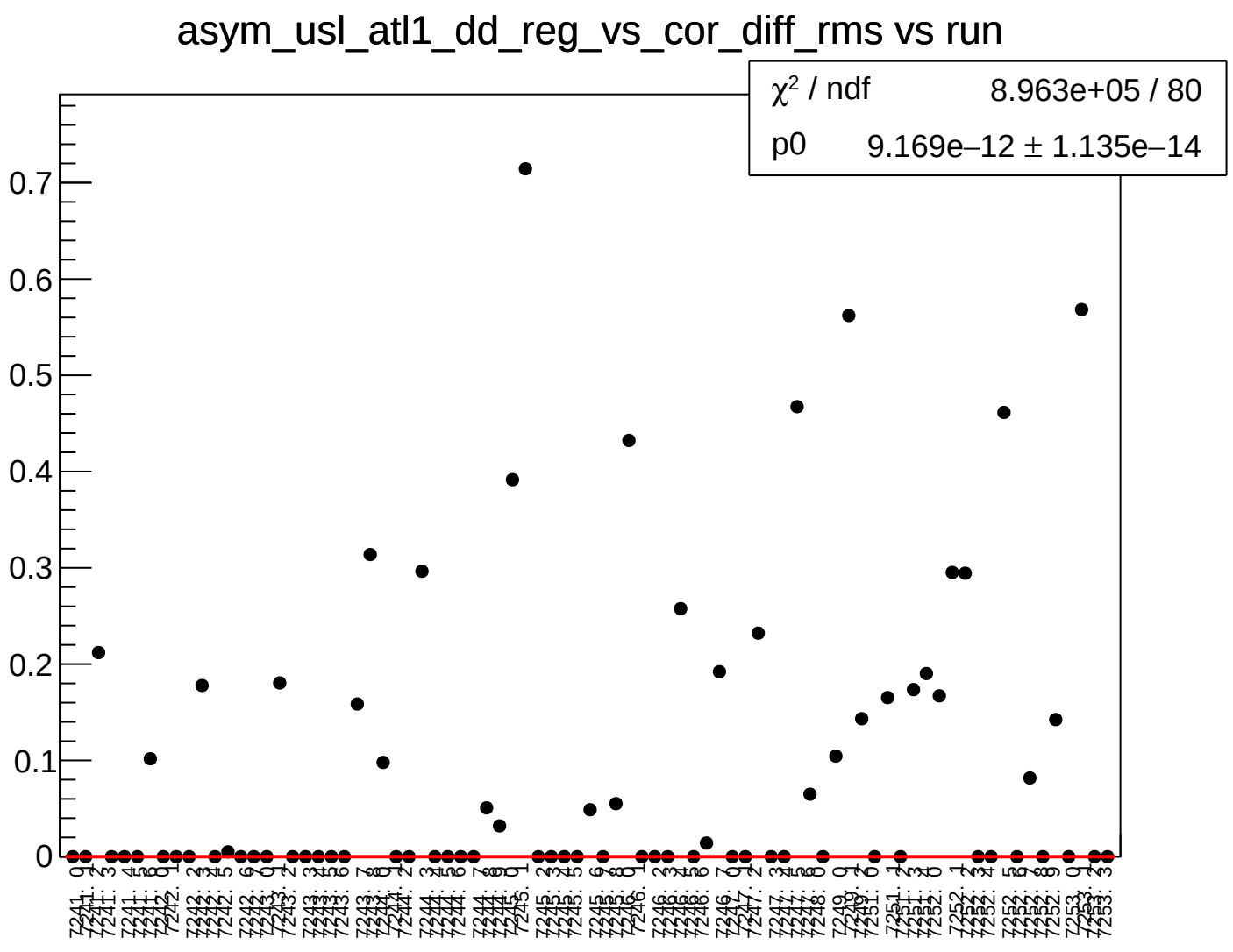

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 3025 / 80
p0 498.4 ± 0.4008
560
540
520
500
480
460
440

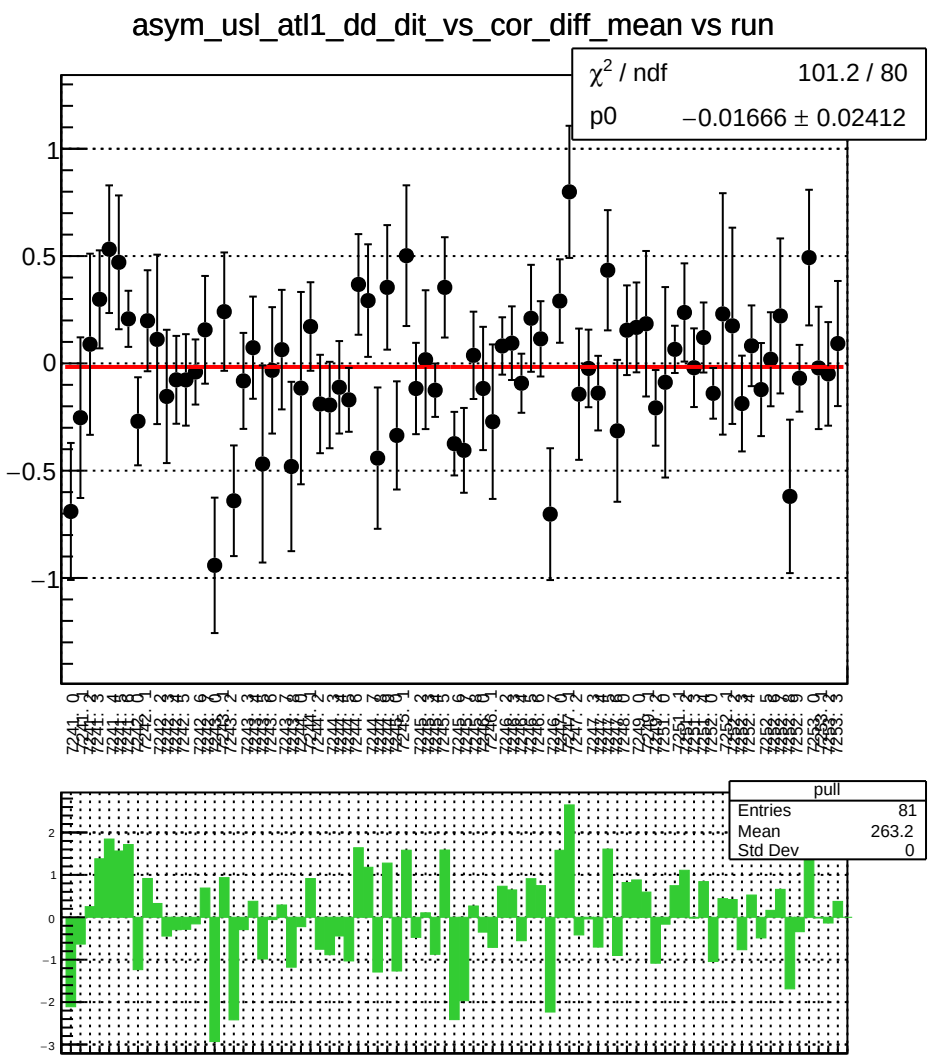

asym_usl_atl1_dd_mean vs run
χ² / ndf 90.37 / 80
p0 1069 ± 1378
40000
20000
0
−20000
−40000
pull
Entries 81
Mean 247.5
Std Dev 0
2
1
0
−1
−2

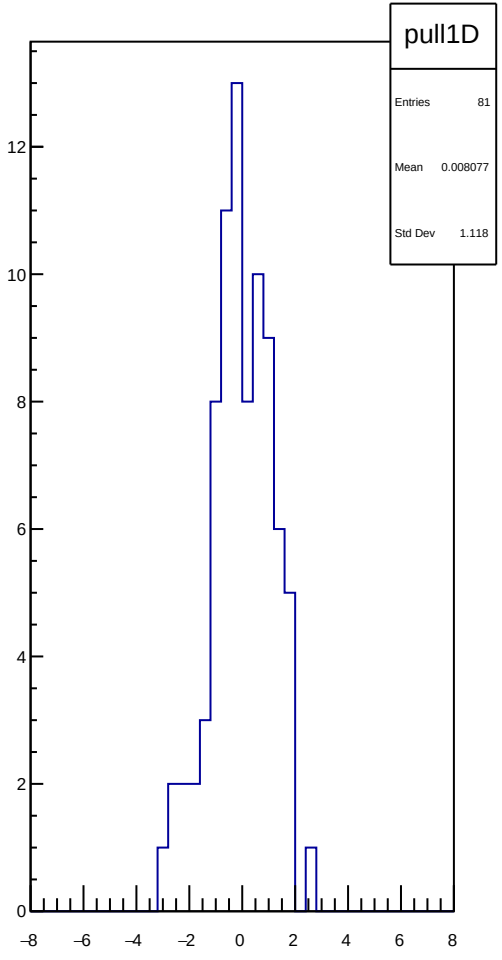

pull1D
Entries 81
Mean −0.003992
Std Dev 1.056
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

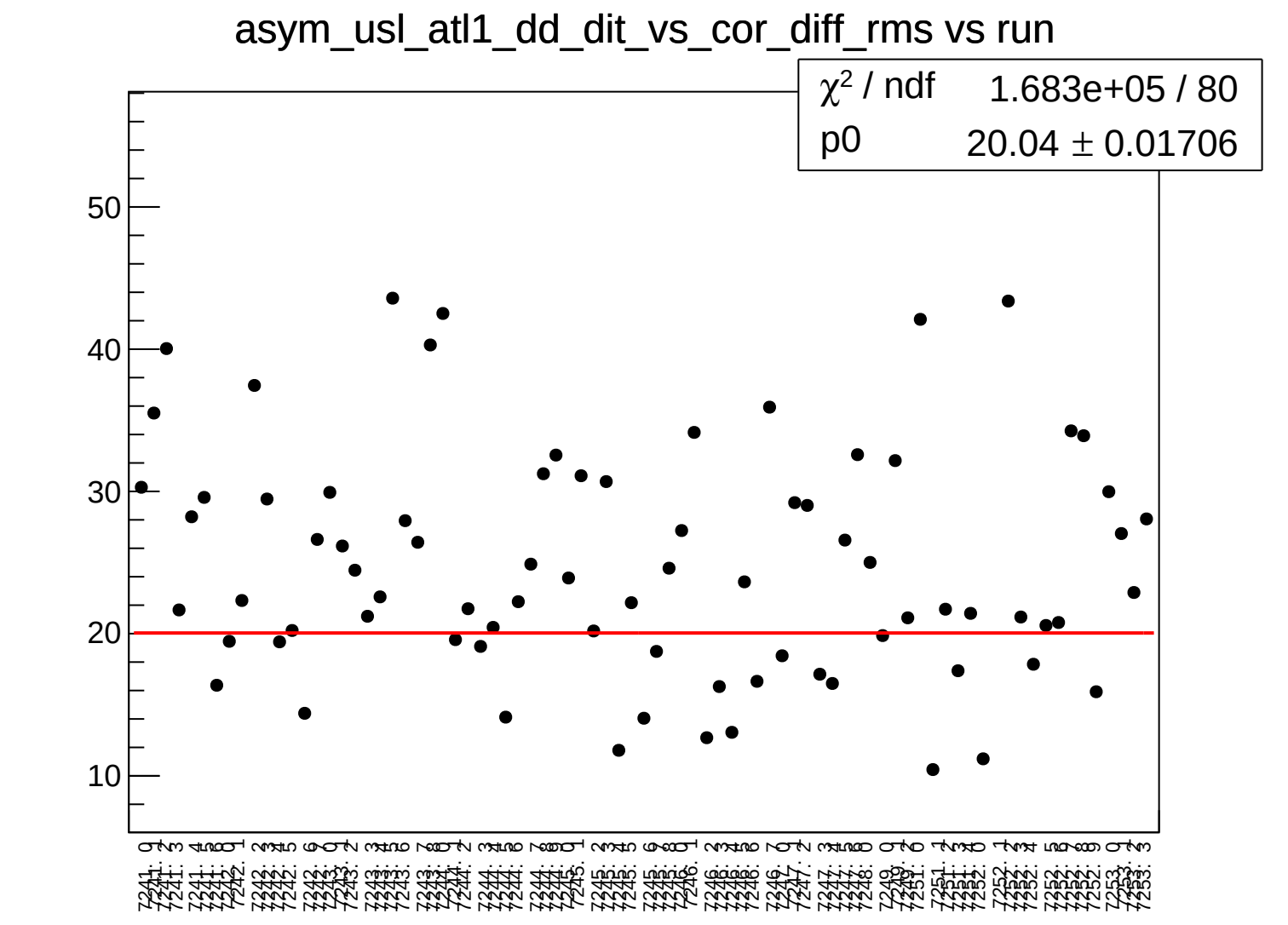

asym_usl_atl1_dd_rms vs run
χ² / ndf 190.8 / 80
p0 1212 ± 0.9742
1260
1240
1220
1200
1180

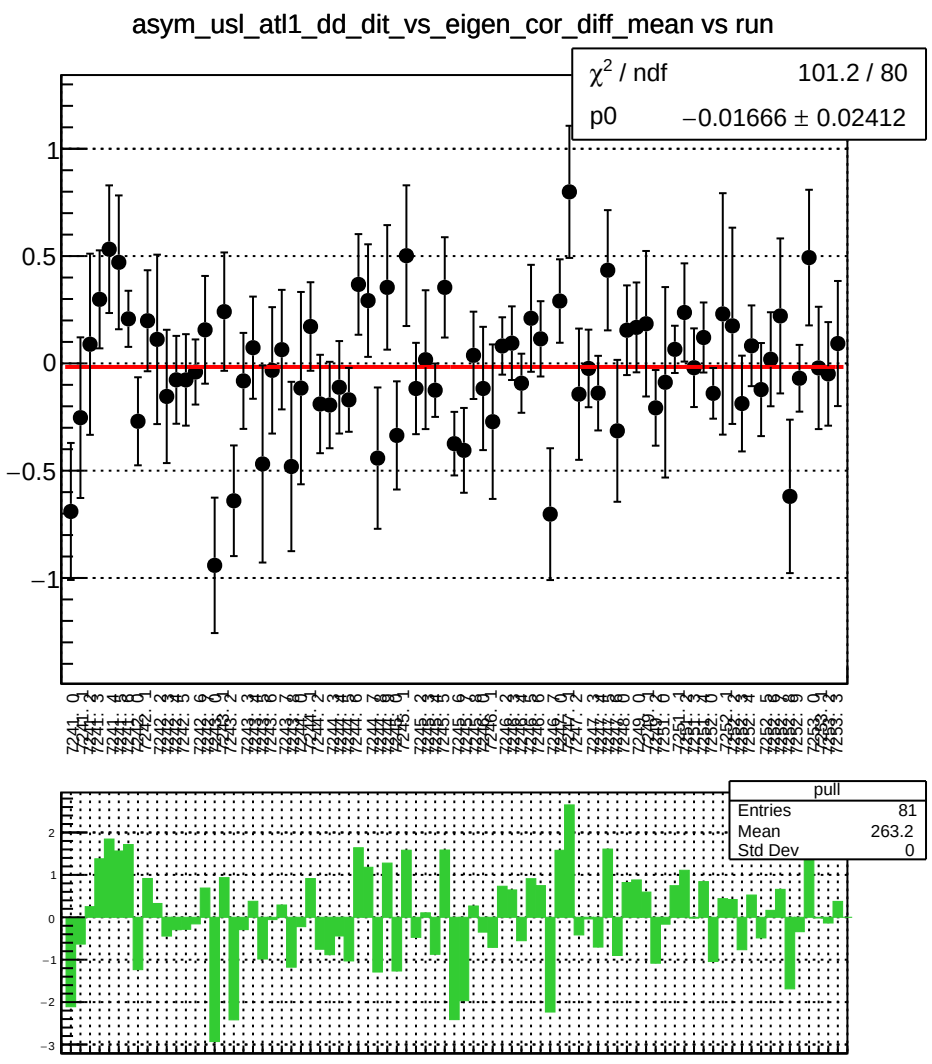

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 85.9 / 80
p0 −1.481e−14 ± 1.605e−14
0.01
0.005
0
−0.005
−0.01
pull
Entries 81
Mean 111
Std Dev 0
pull1D
Entries 81
Mean −0.03856
Std Dev 1.029

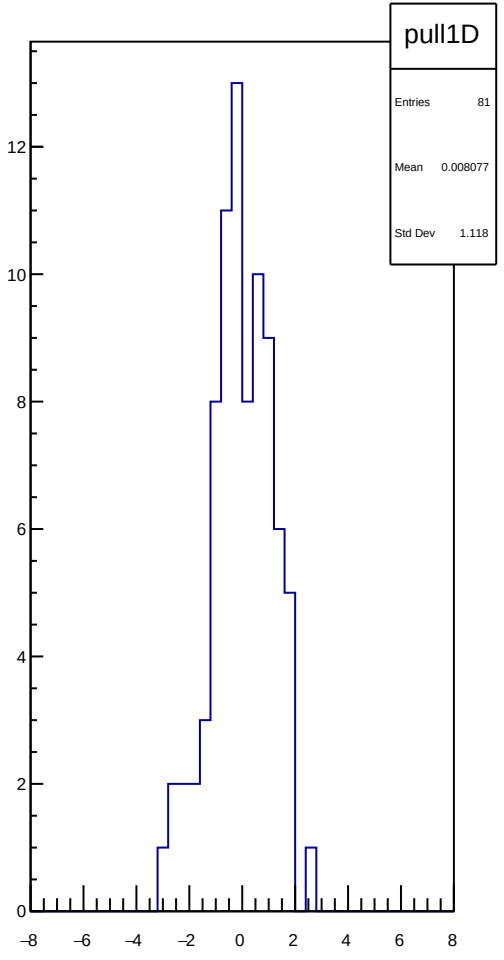

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.963e+05 / 80
p0 9.169e−12 ± 1.135e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

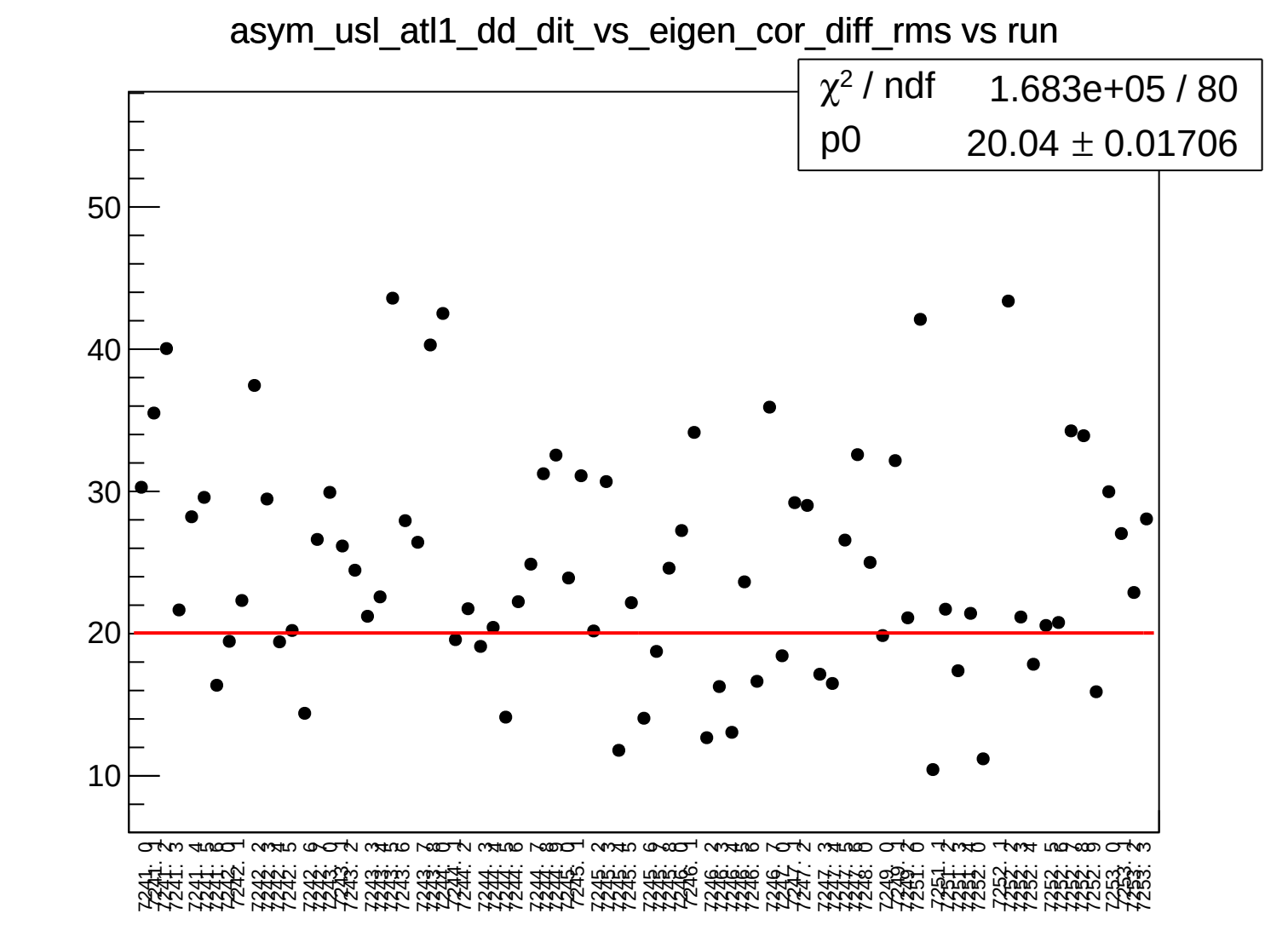

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 101.2 / 80
p0 −0.01666 ± 0.02412
pull
Entries 81
Mean 263.2
Std Dev 0

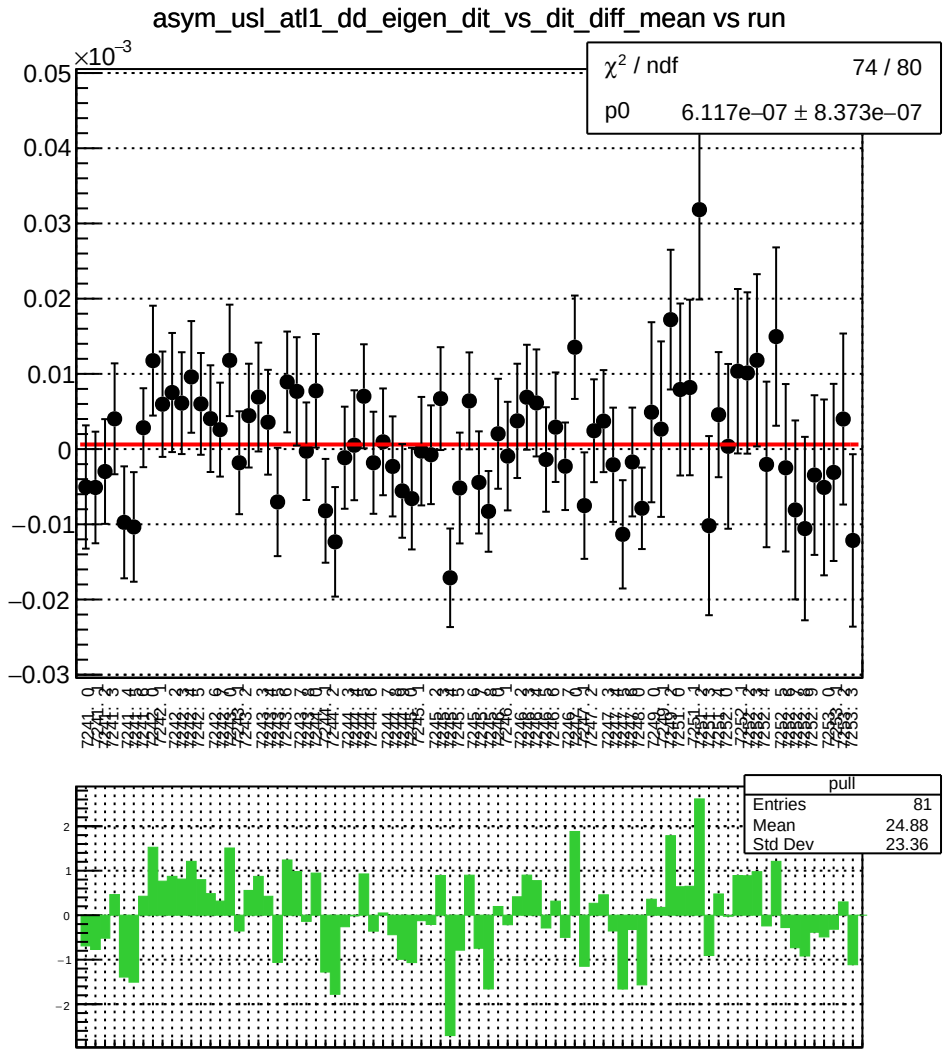

pull1D
Entries 81
Mean 0.008077
Std Dev 1.118

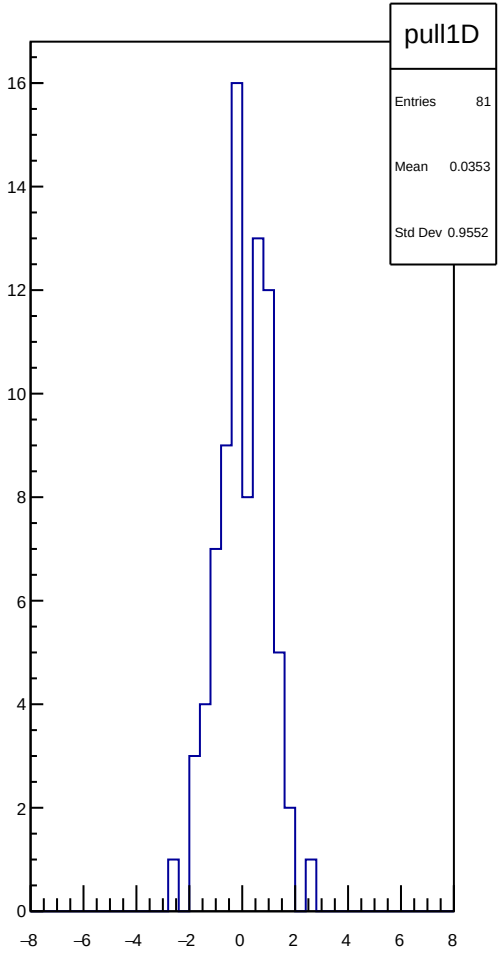

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.683e+05 / 80
p0 20.04 ± 0.01706
50
40
30
20
10

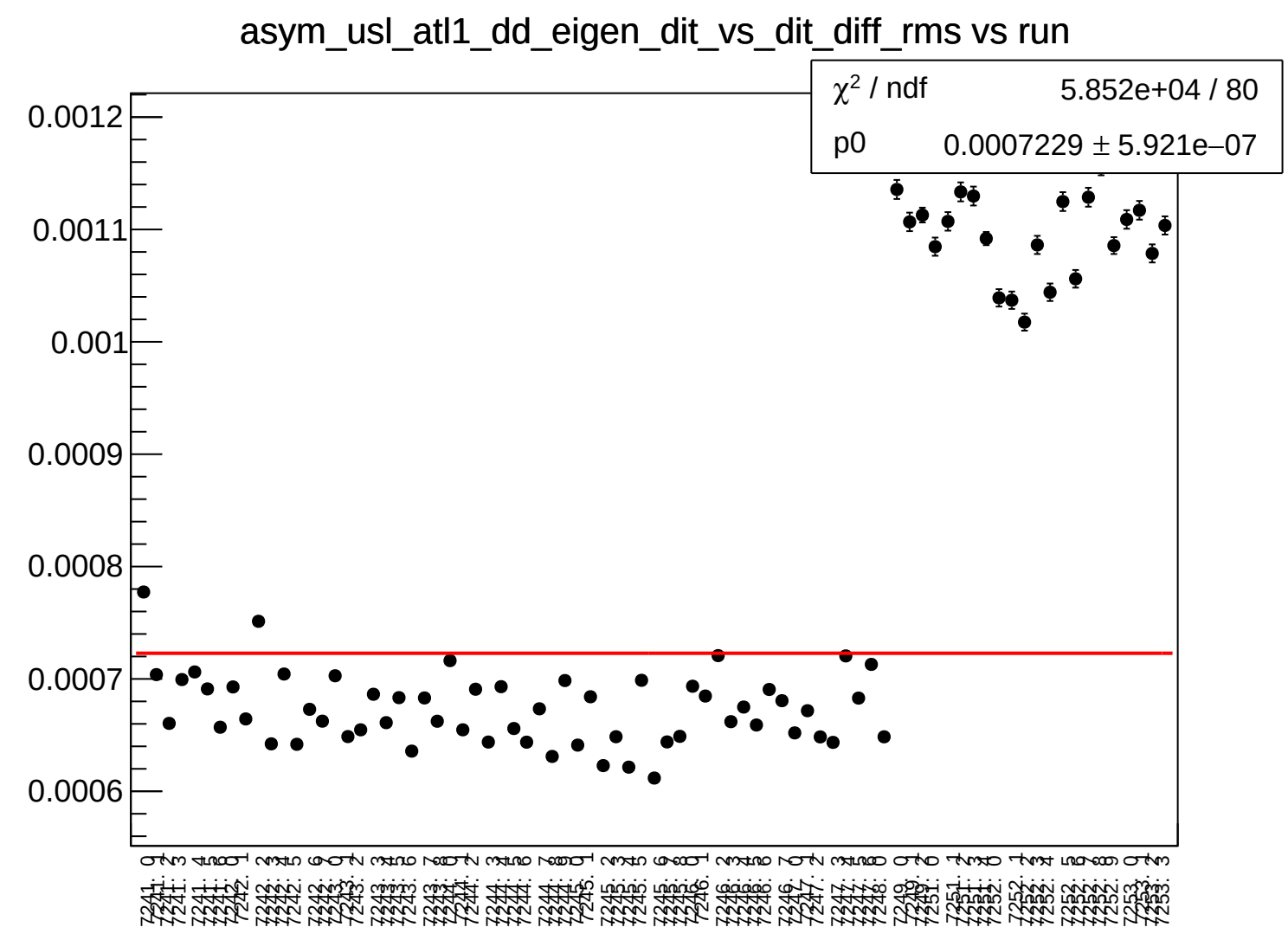

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.2 / 80
p0 −0.01666 ± 0.02412
pull
Entries 81
Mean 263.2
Std Dev 0

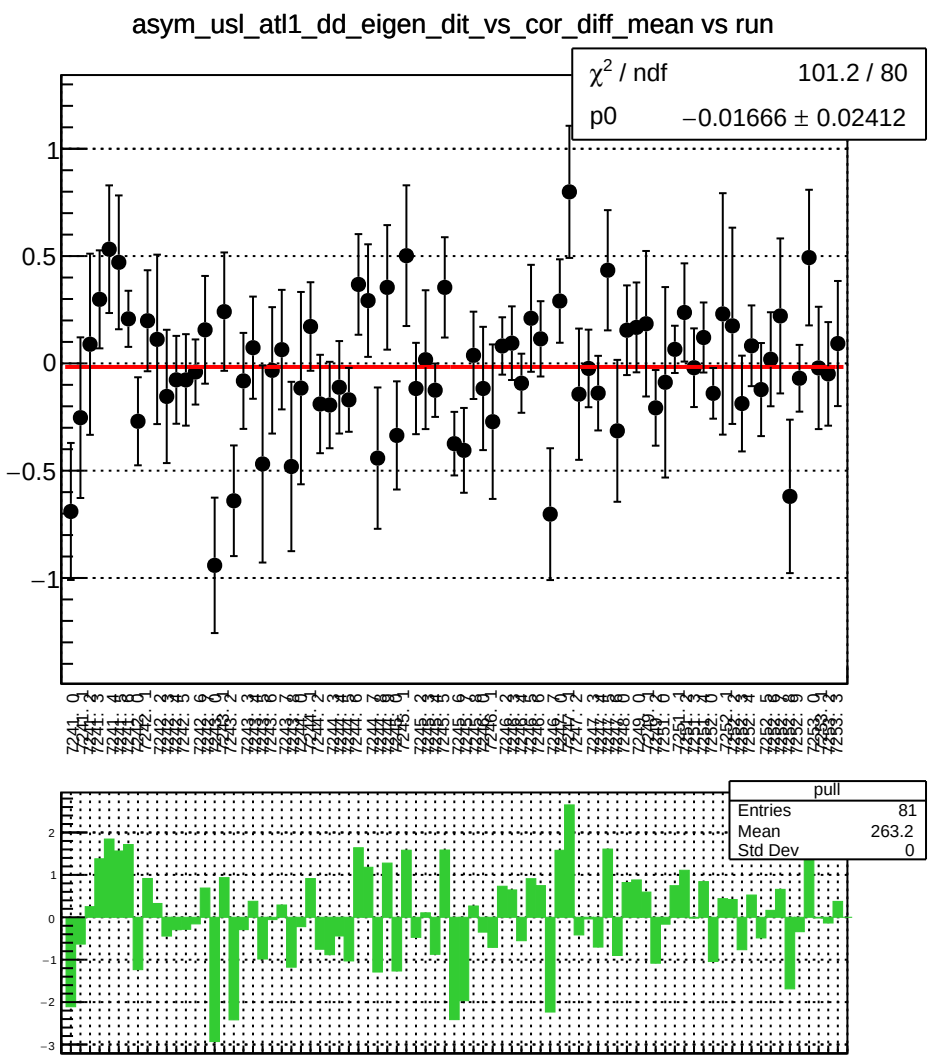

pull1D
Entries 81
Mean 0.008077
Std Dev 1.118

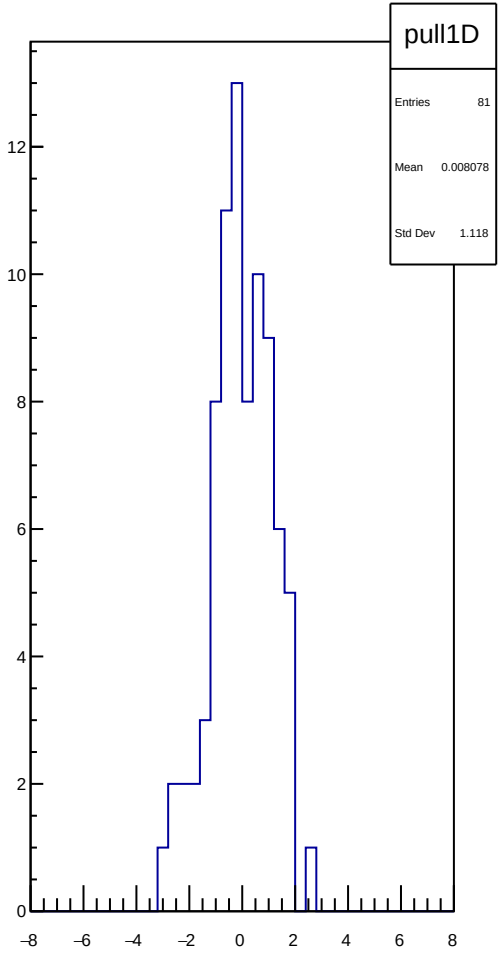

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.683e+05 / 80
p0 20.04 ± 0.01706
50
40
30
20
10

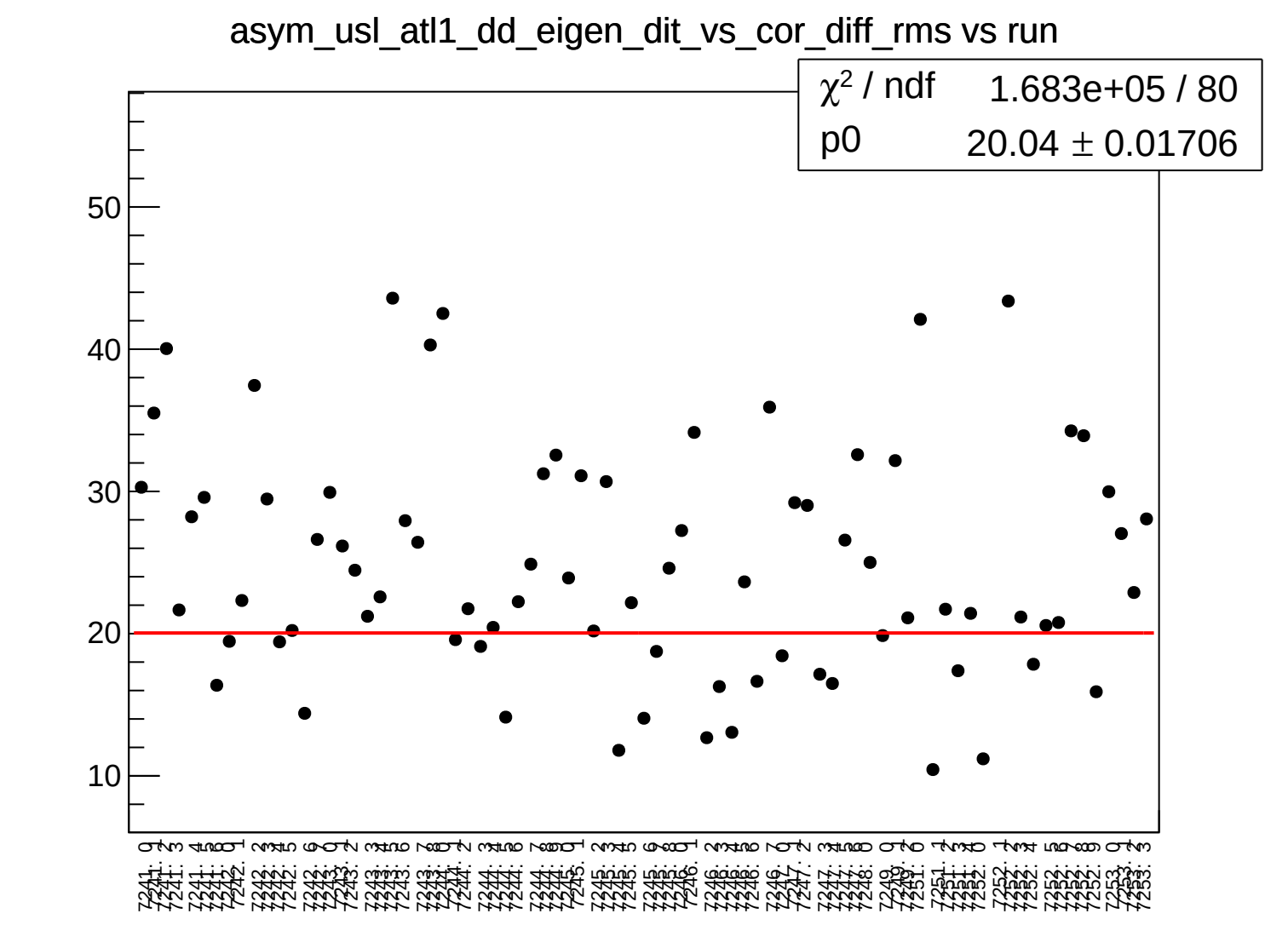

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74 / 80
p0 6.117e−07 ± 8.373e−07
pull
Entries 81
Mean 24.88
Std Dev 23.36

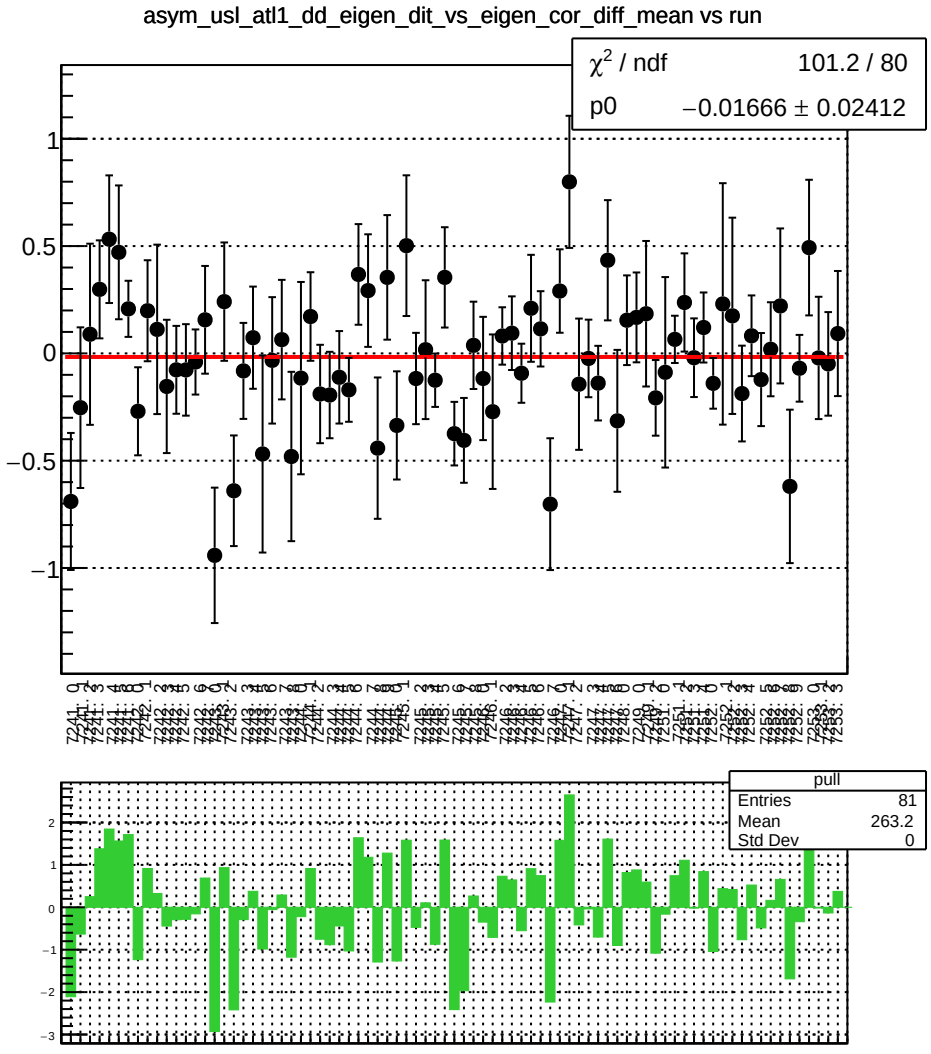

pull1D
Entries 81
Mean 0.0353
Std Dev 0.9552

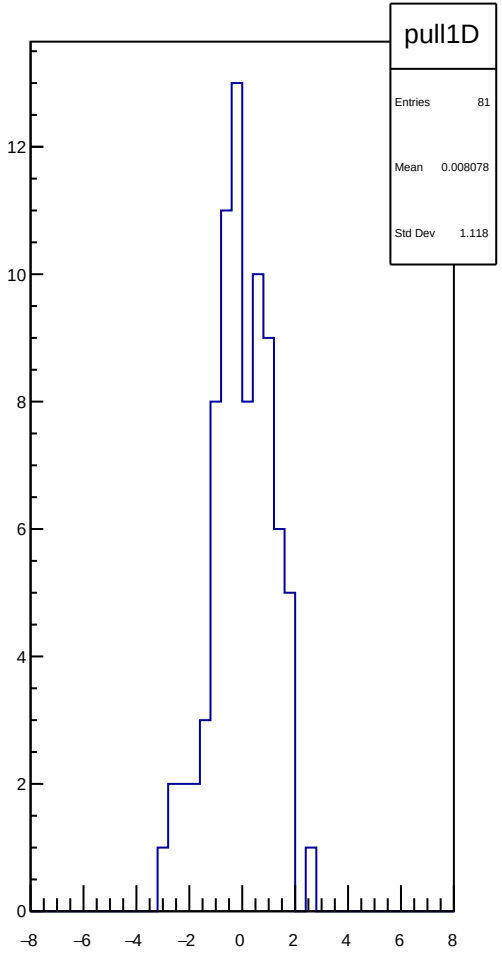

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.852e+04 / 80
p0 0.0007229 ± 5.921e−07
0.0012
0.0011
0.001
0.0009
0.0008
0.0007
0.0006

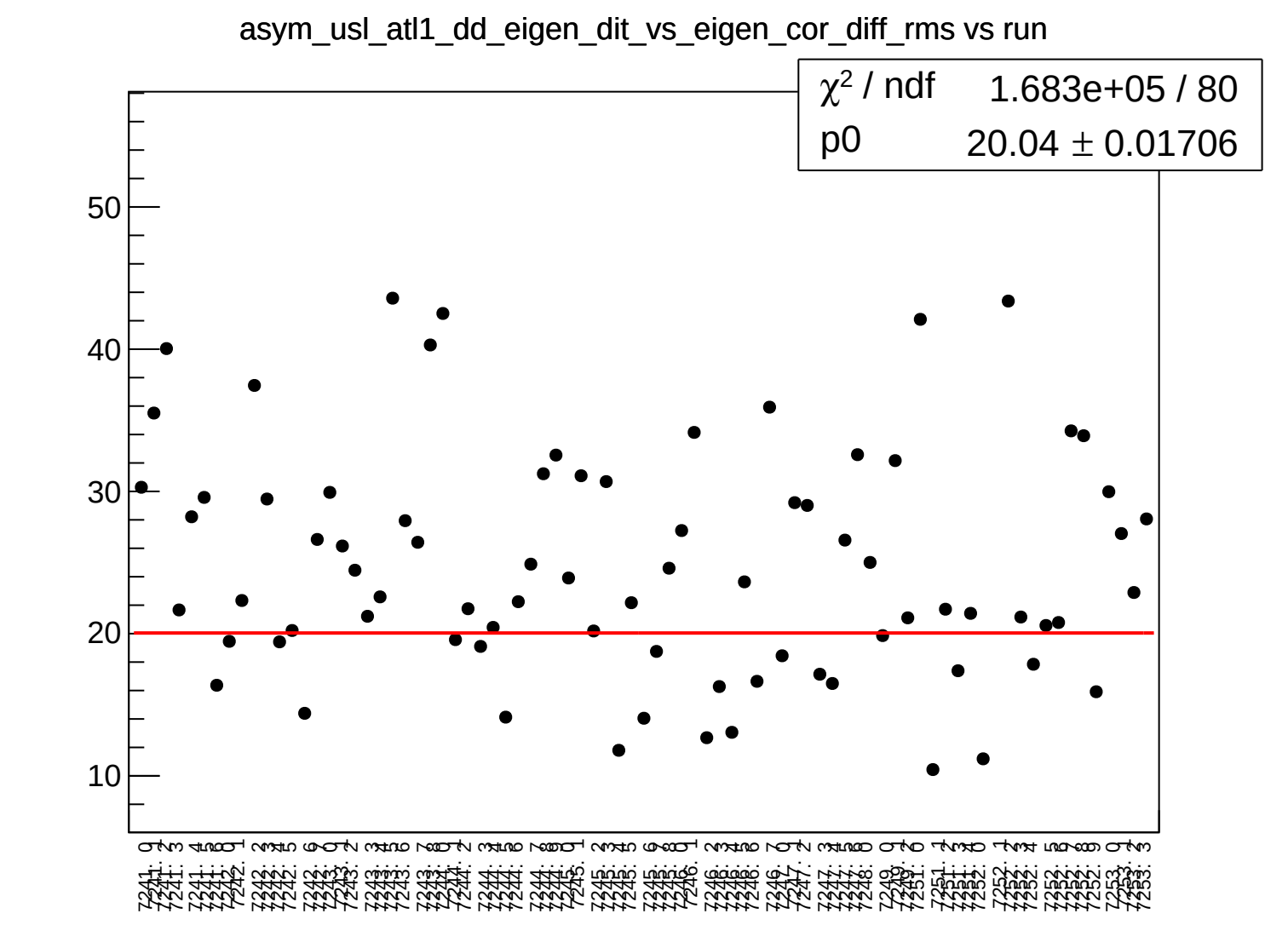

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101.2 / 80
p0 −0.01666 ± 0.02412
pull
Entries 81
Mean 263.2
Std Dev 0

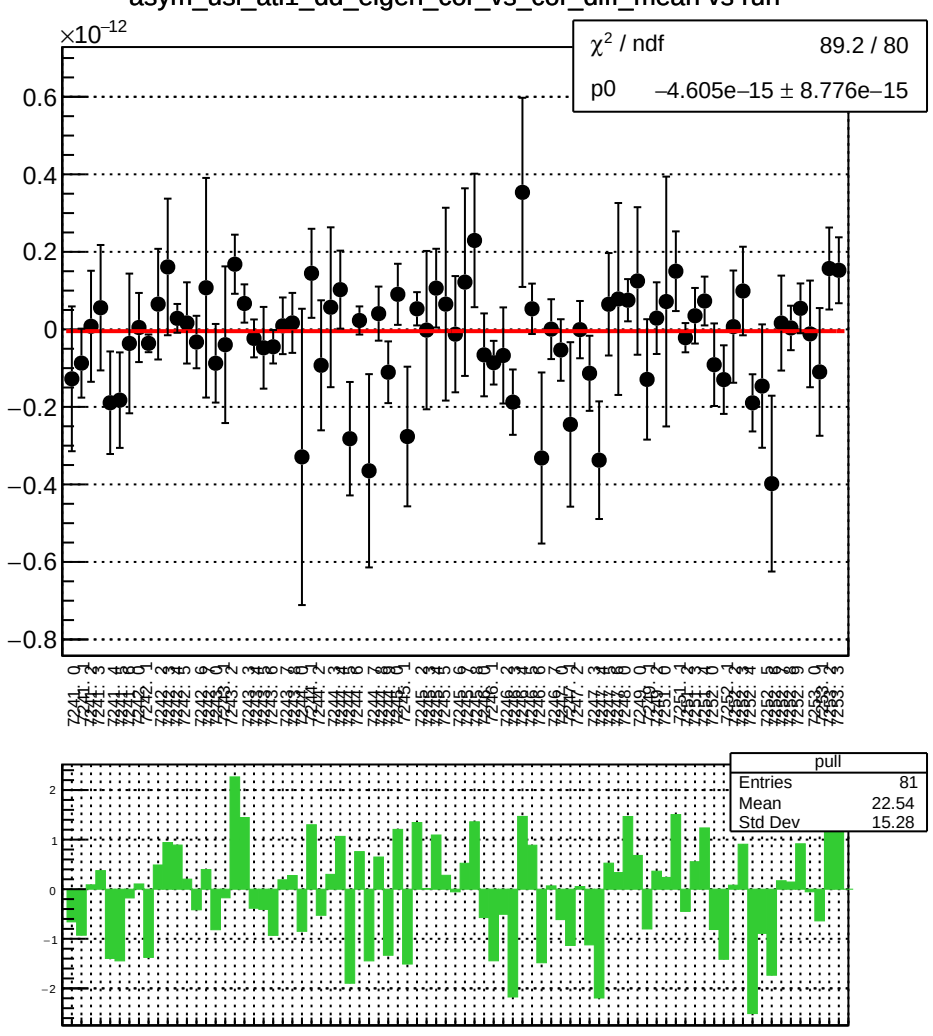

pull1D
Entries 81
Mean 0.008078
Std Dev 1.118

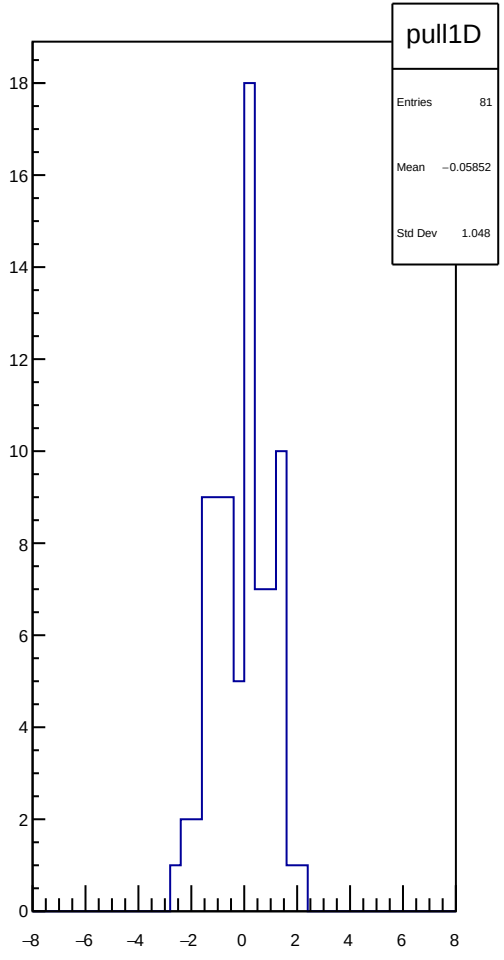

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.683e+05 / 80
p0 20.04 ± 0.01706
50
40
30
20
10

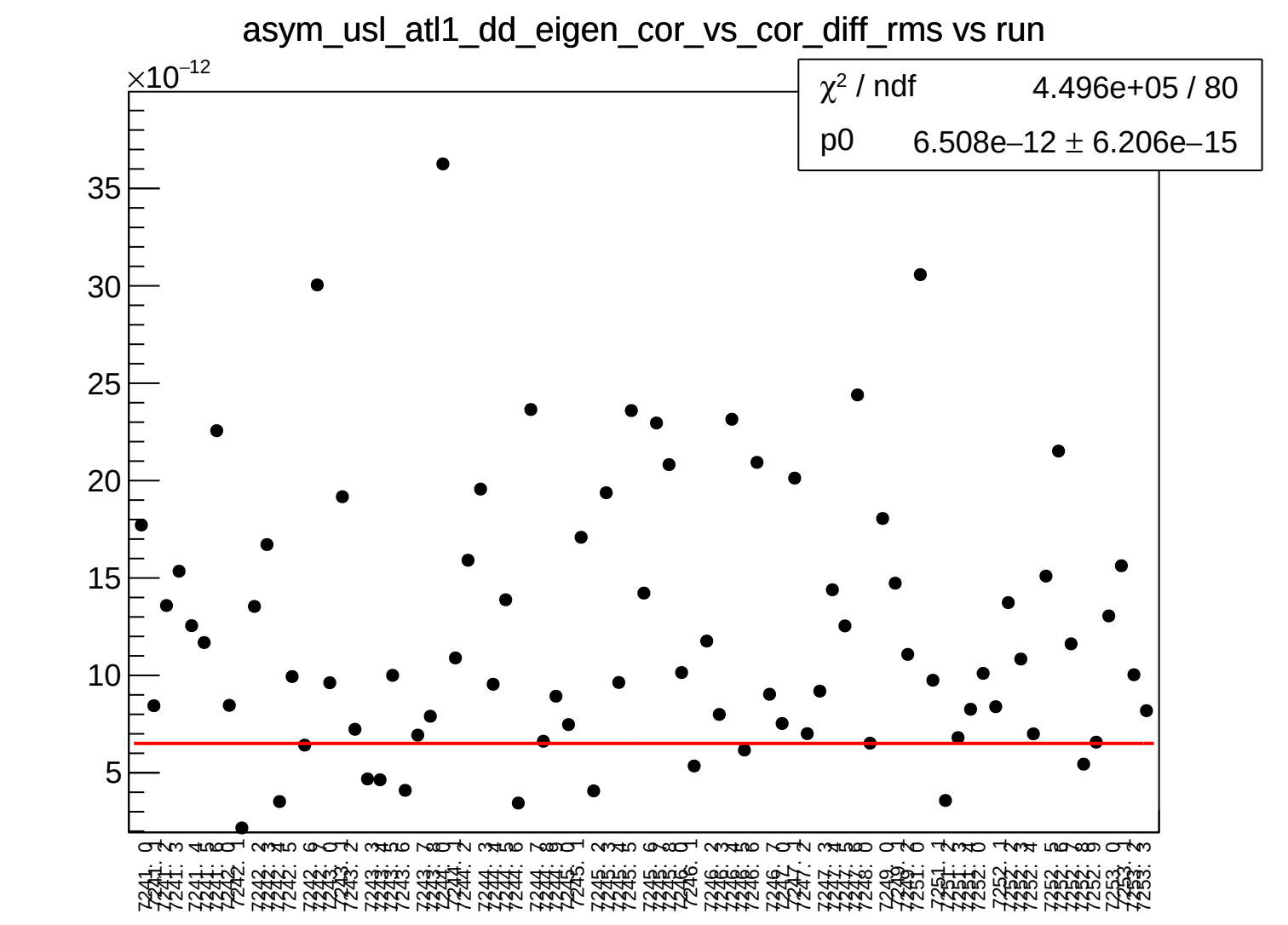

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.2 / 80
p0 −0.01666 ± 0.02412
pull
Entries 81
Mean 263.2
Std Dev 0

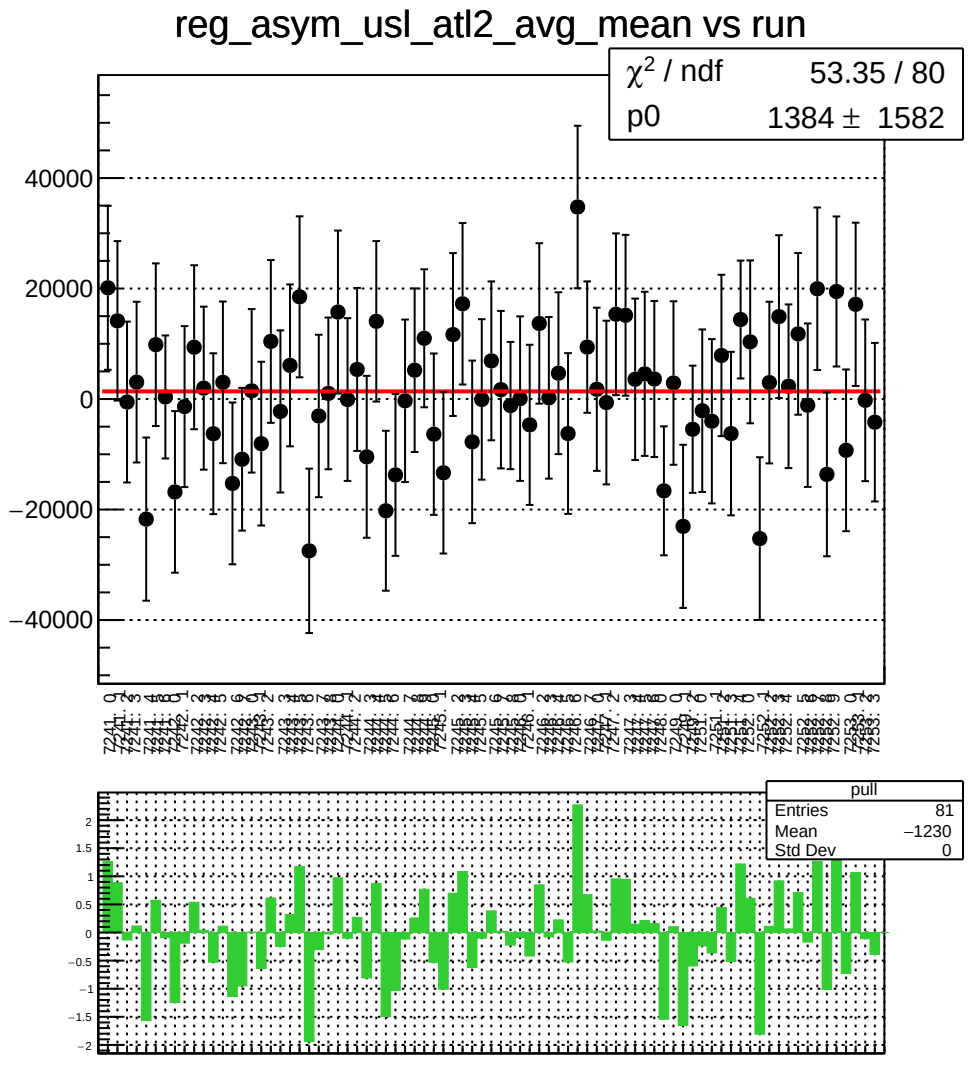

pull1D
Entries 81
Mean 0.008078
Std Dev 1.118

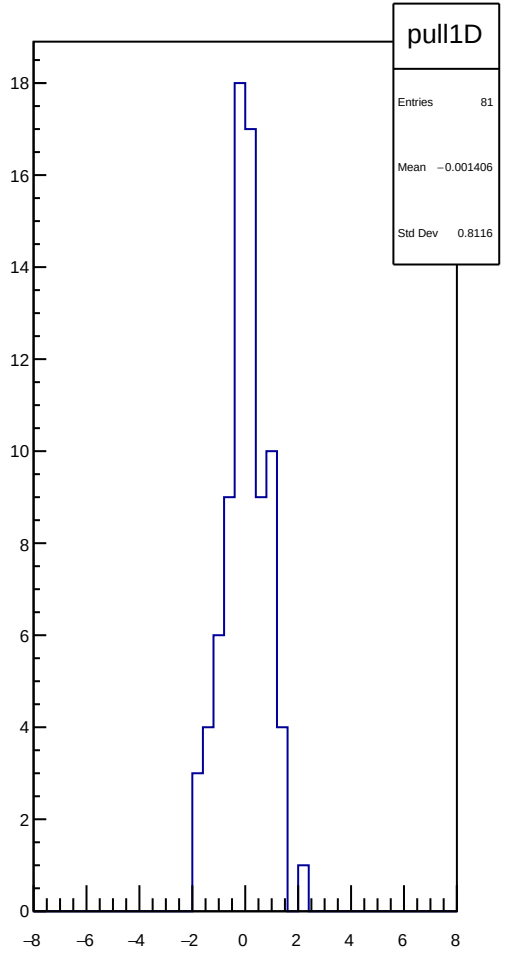

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.683e+05 / 80
p0 20.04 ± 0.01706
50
40
30
20
10

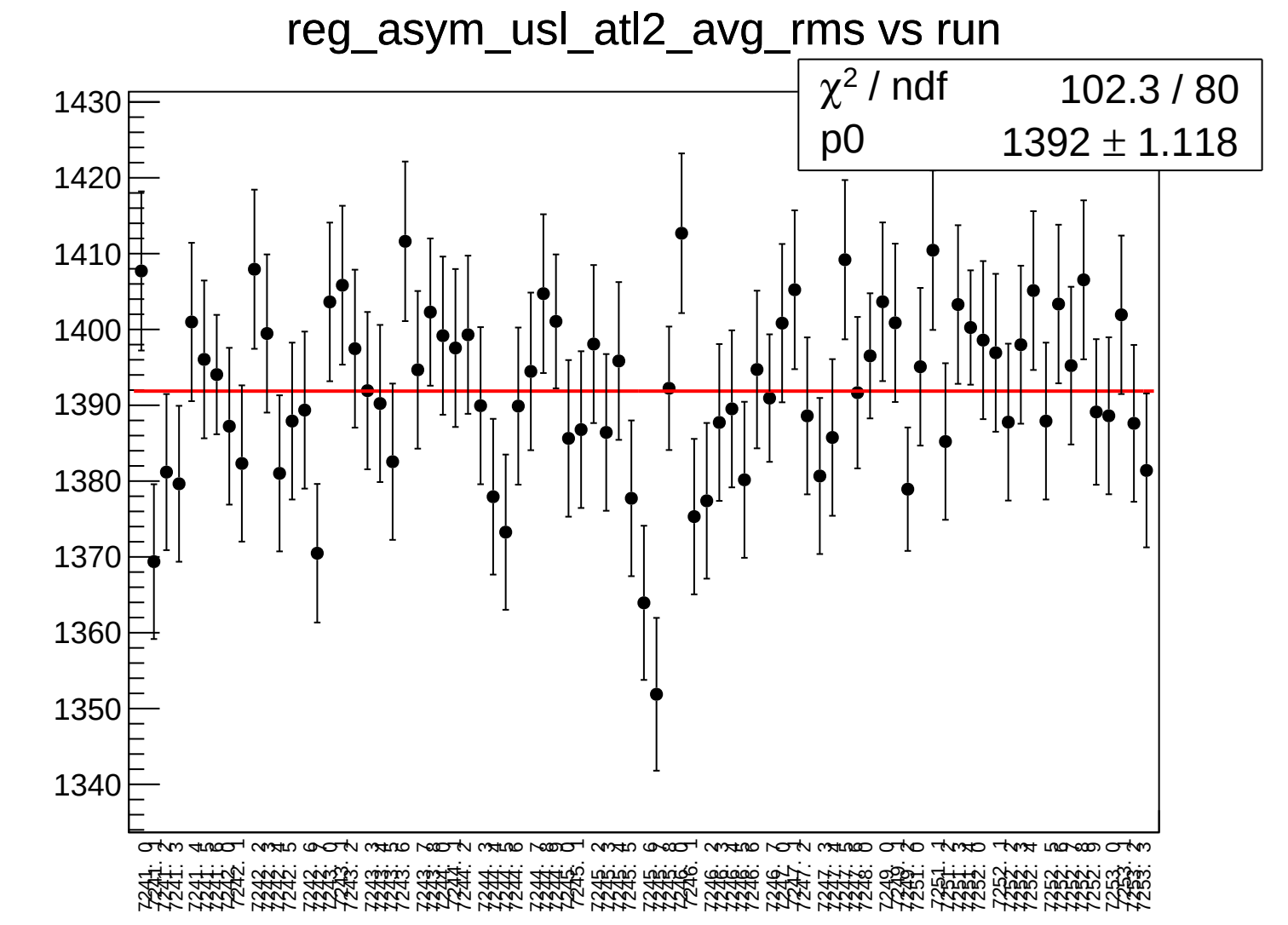

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.2 / 80
p0 −4.605e−15 ± 8.776e−15
pull
Entries 81
Mean 22.54
Std Dev 15.28

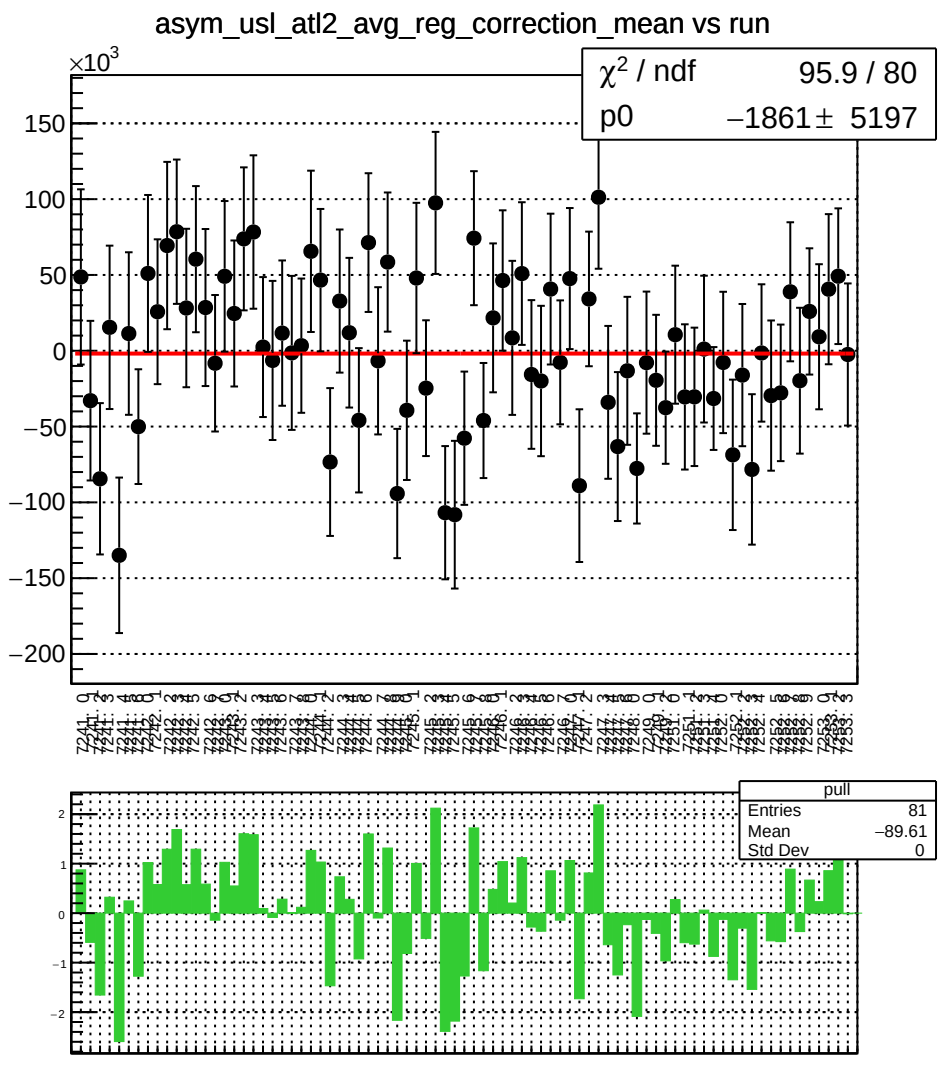

pull1D
Entries 81
Mean −0.05852
Std Dev 1.048

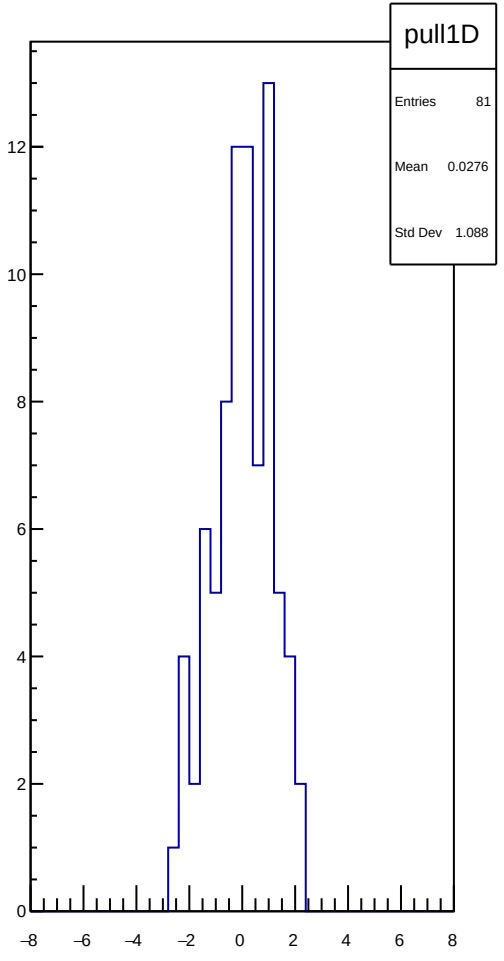

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.496e+05 / 80
p0 6.508e−12 ± 6.206e−15
35
30
25
20
15
10
5

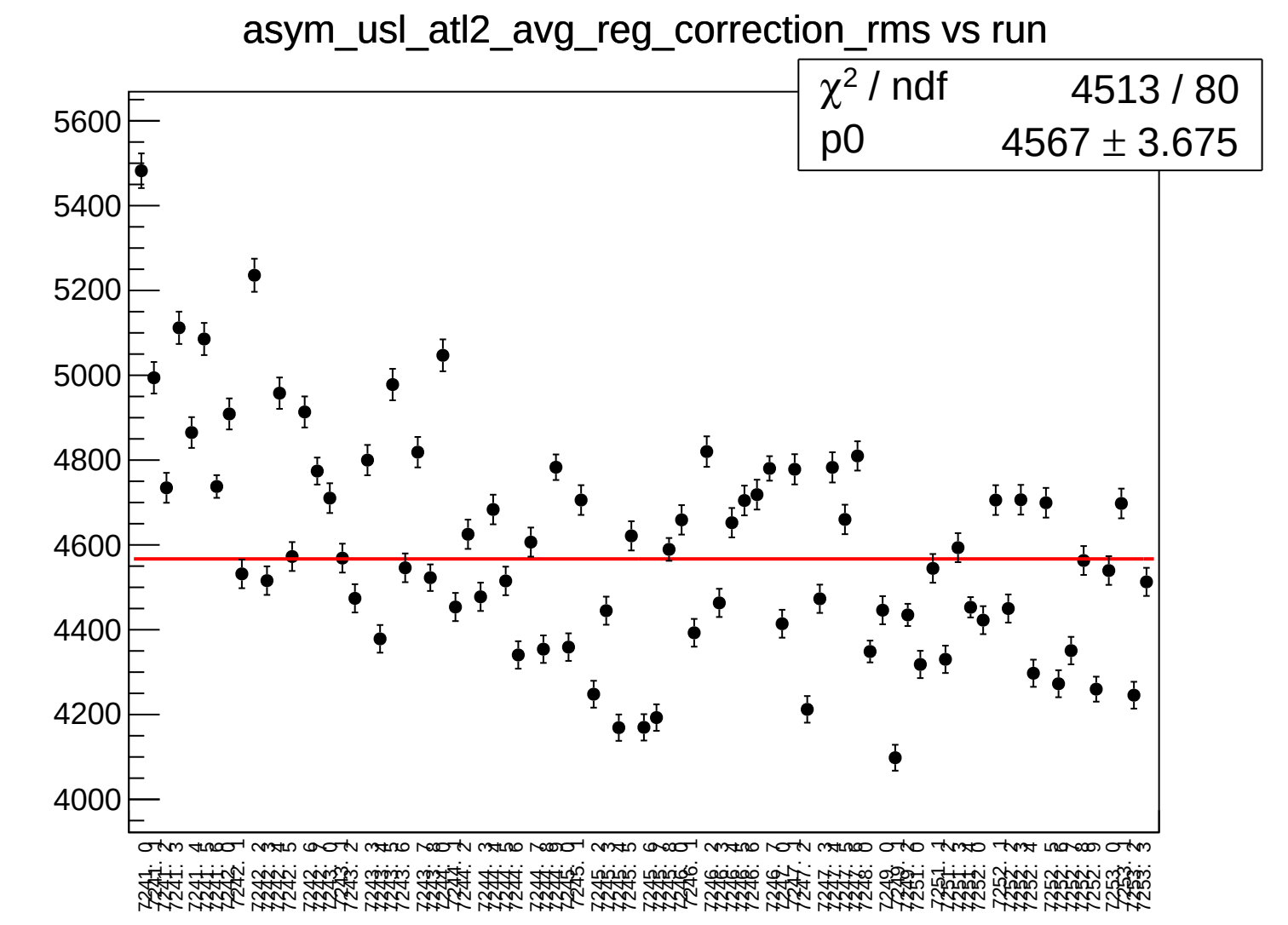

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 53.35 / 80
p0 1384 ± 1582
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −1230
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

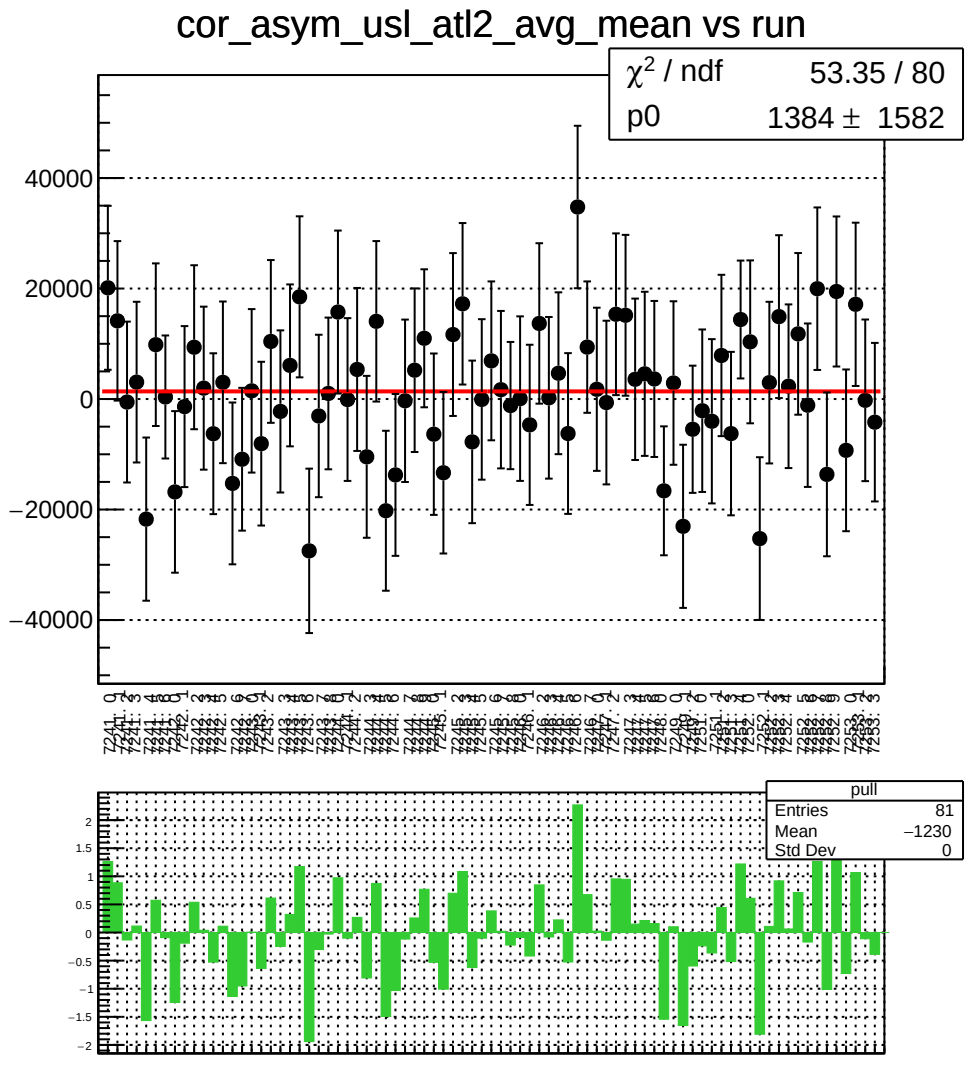

pull1D
Entries 81
Mean −0.001406
Std Dev 0.8116
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

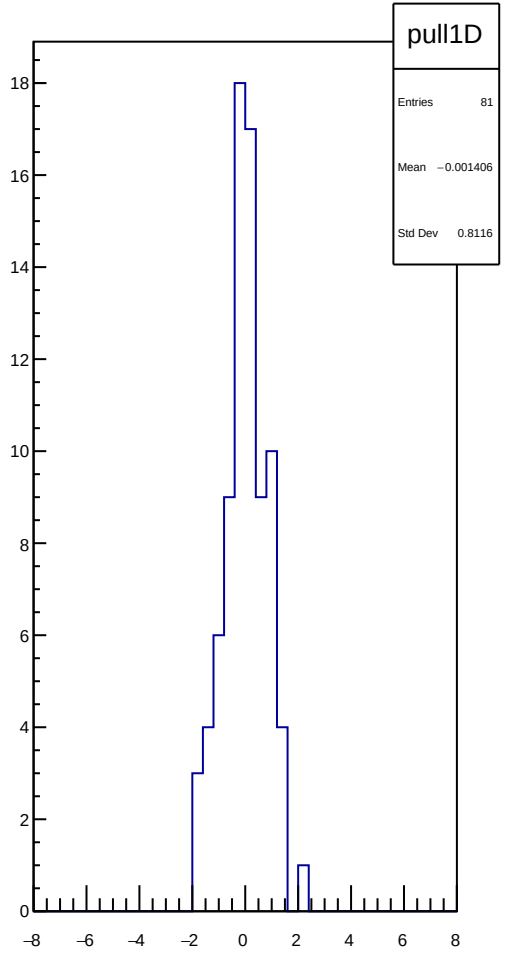

reg_asym_usl_atl2_avg_rms vs run
χ² / ndf 102.3 / 80
p0 1392 ± 1.118
1430
1420
1410
1400
1390
1380
1370
1360
1350
1340

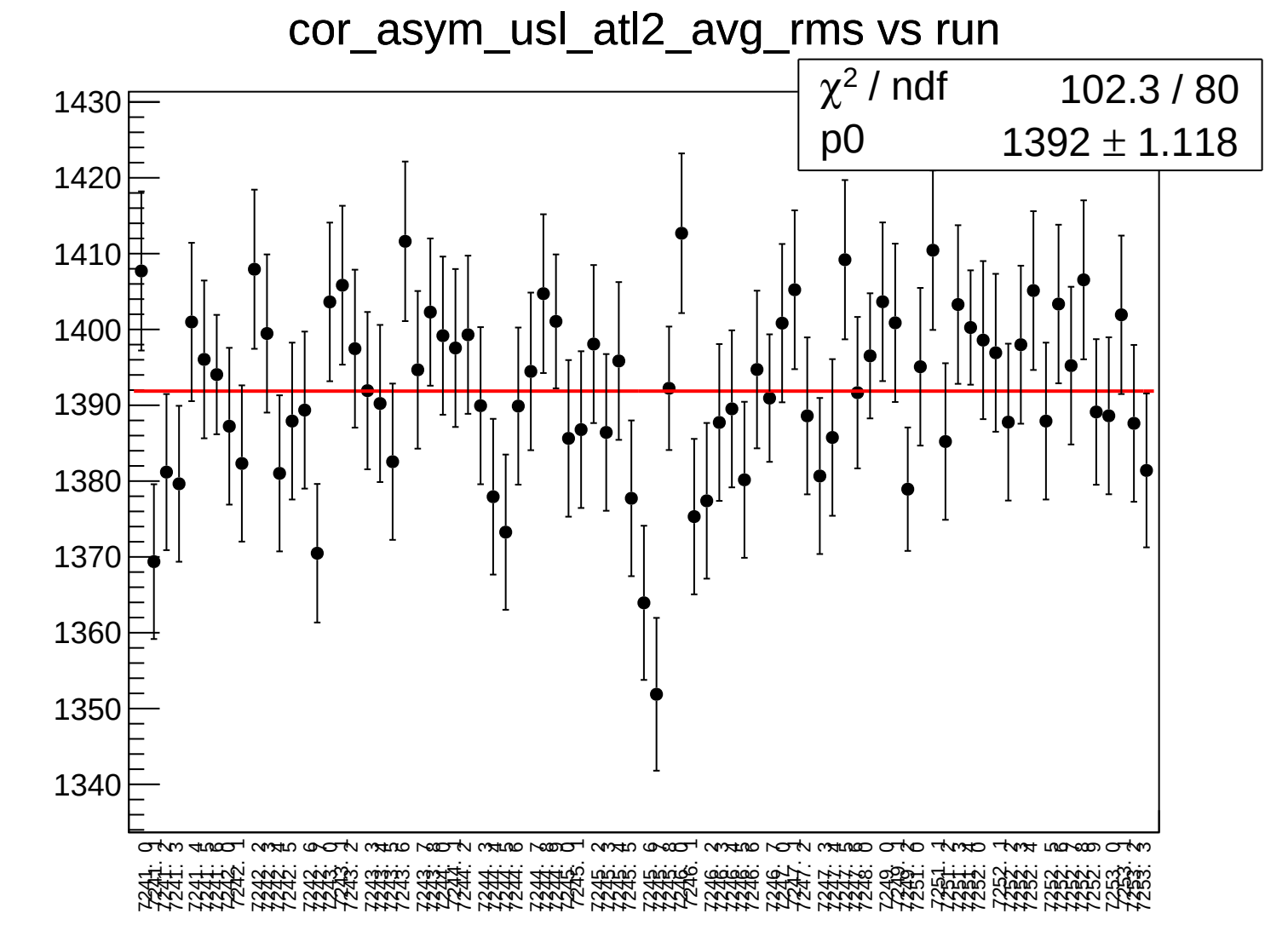

asym_usl_atl2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 95.9 / 80
p0 −1861 ± 5197
150
100
50
0
−50
−100
−150
−200
pull
Entries 81
Mean −89.61
Std Dev 0
2
1
0
−1
−2

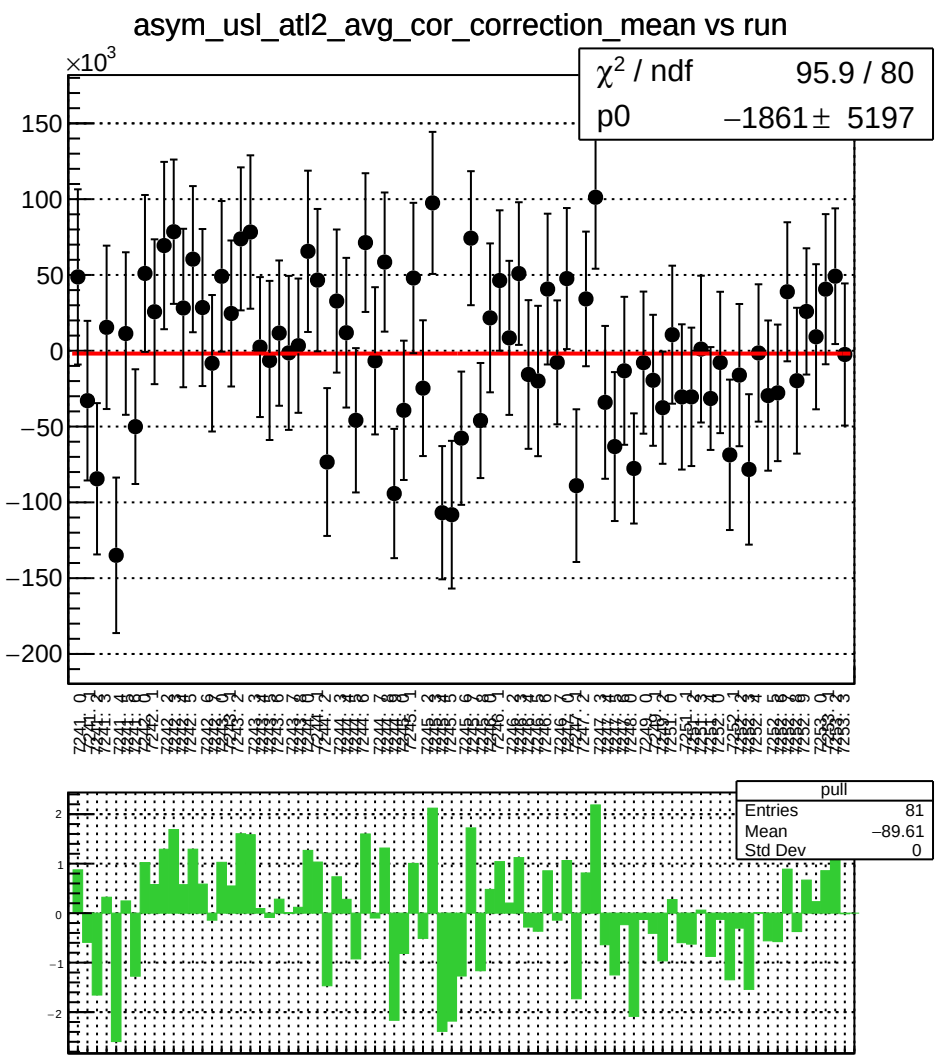

pull1D
Entries 81
Mean 0.0276
Std Dev 1.088
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

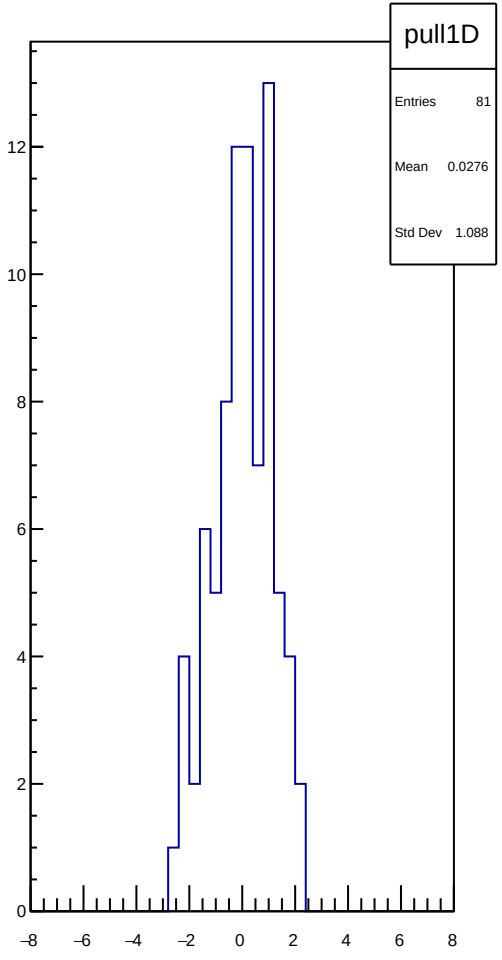

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 4513 / 80
p0 4567 ± 3.675
5600
5400
5200
5000
4800
4600
4400
4200
4000

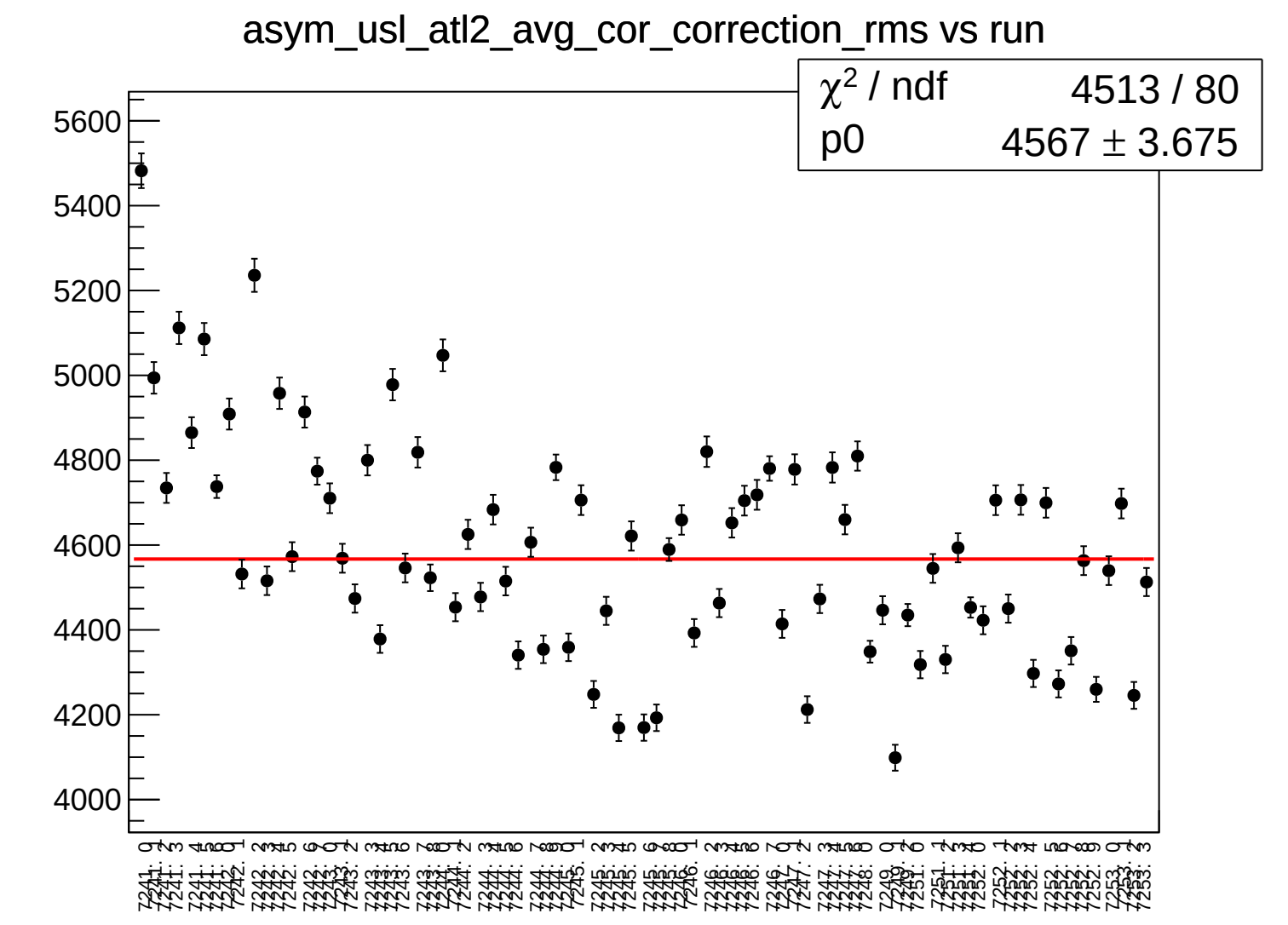

cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 53.35 / 80
p0 1384 ± 1582
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −1230
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

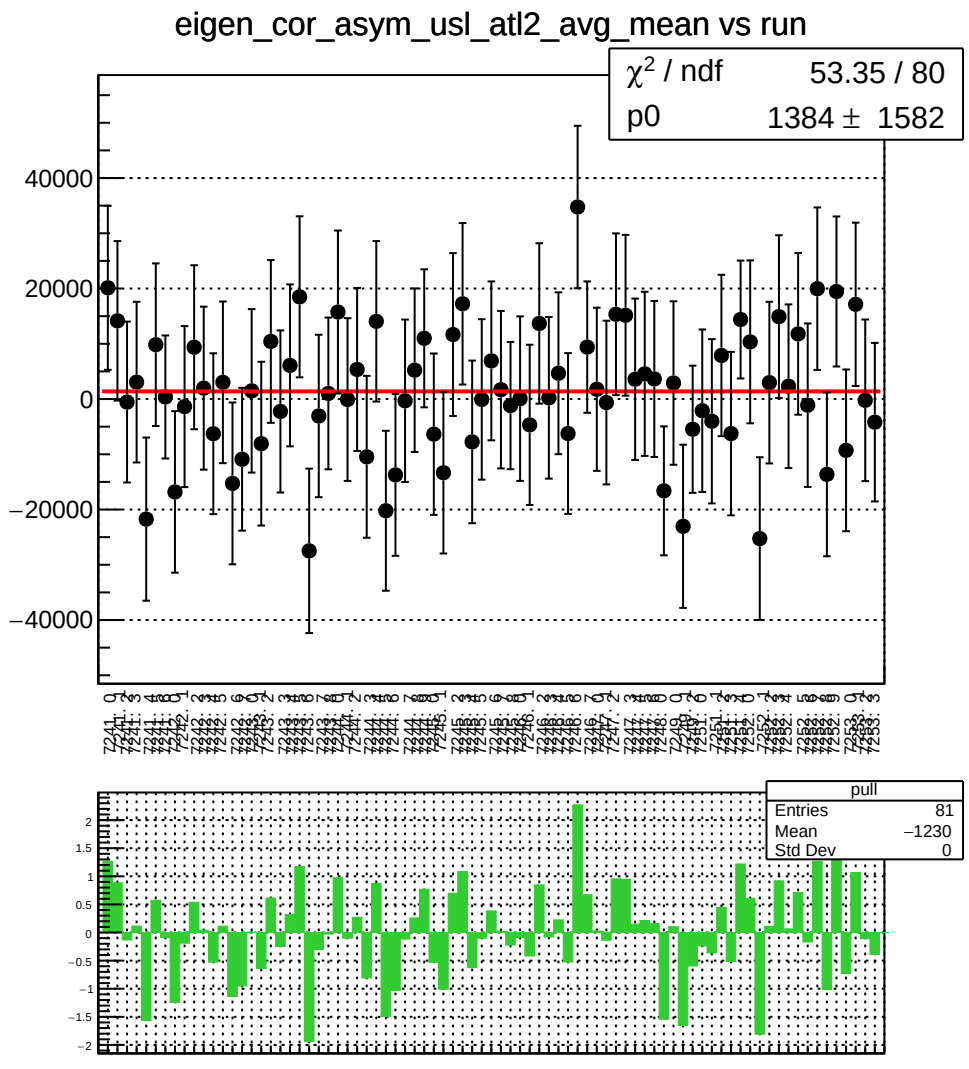

pull1D
Entries 81
Mean −0.001406
Std Dev 0.8116
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

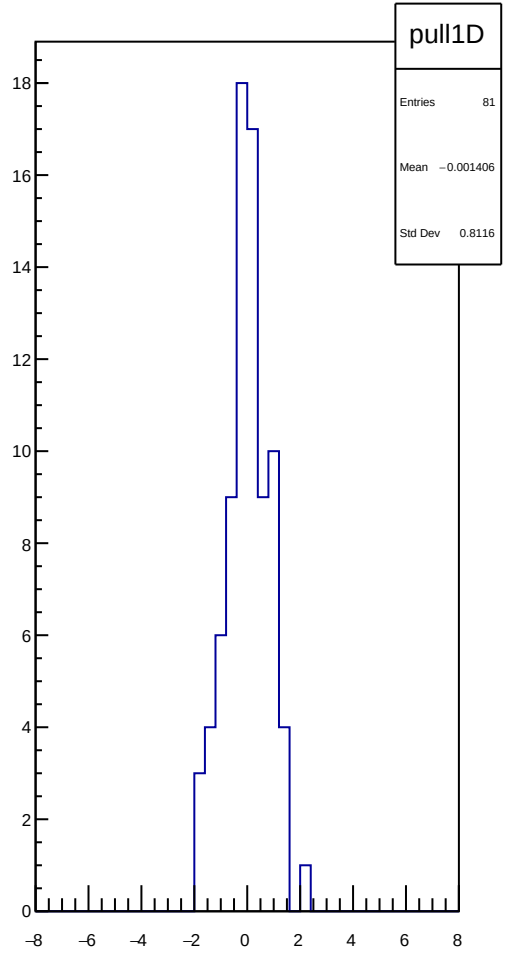

cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 102.3 / 80
p0 1392 ± 1.118
1430
1420
1410
1400
1390
1380
1370
1360
1350
1340

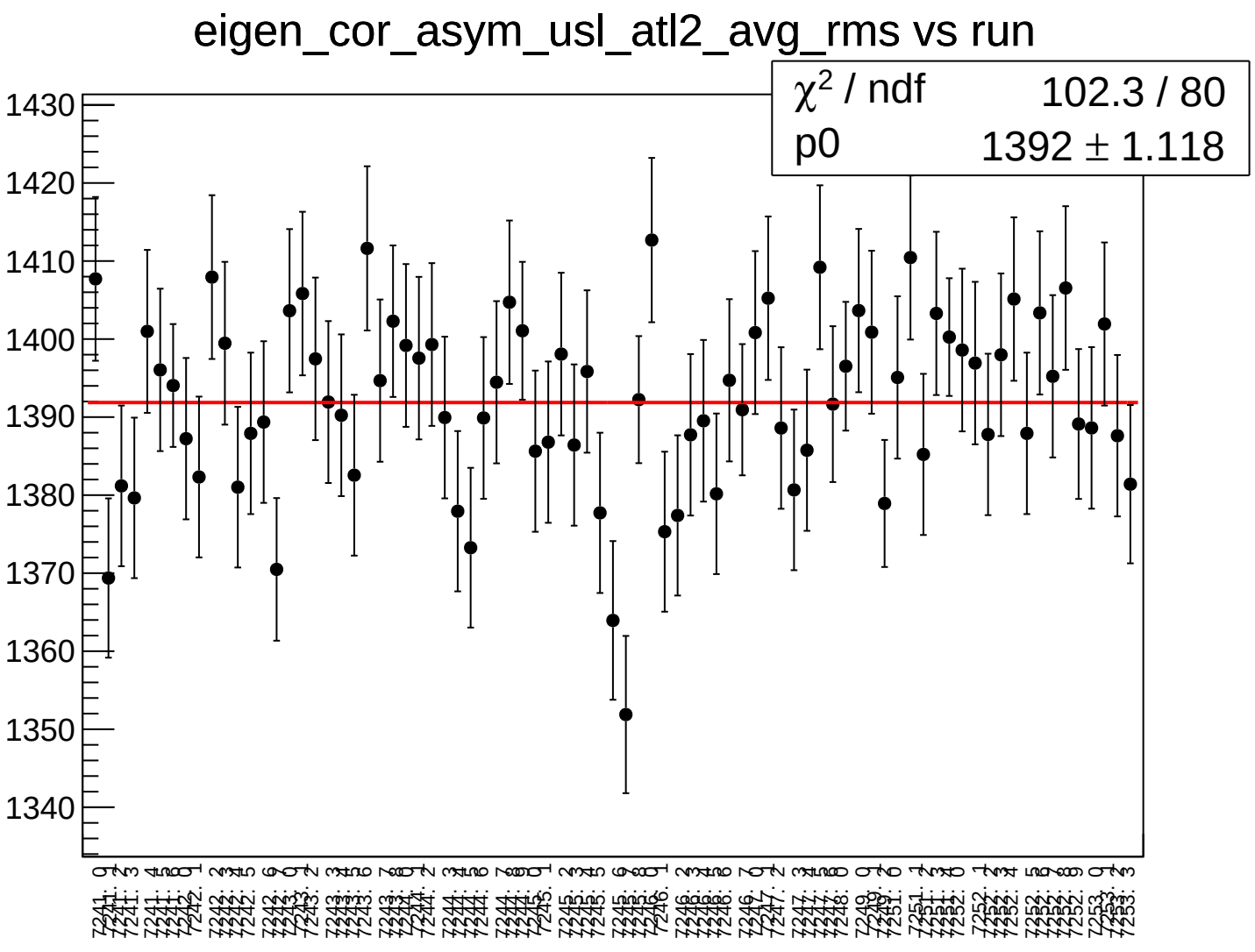

asym_usl_atl2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 95.9 / 80
p0 −1861 ± 5197
150
100
50
0
−50
−100
−150
−200
pull
Entries 81
Mean −89.61
Std Dev 0
2
1
0
−1
−2

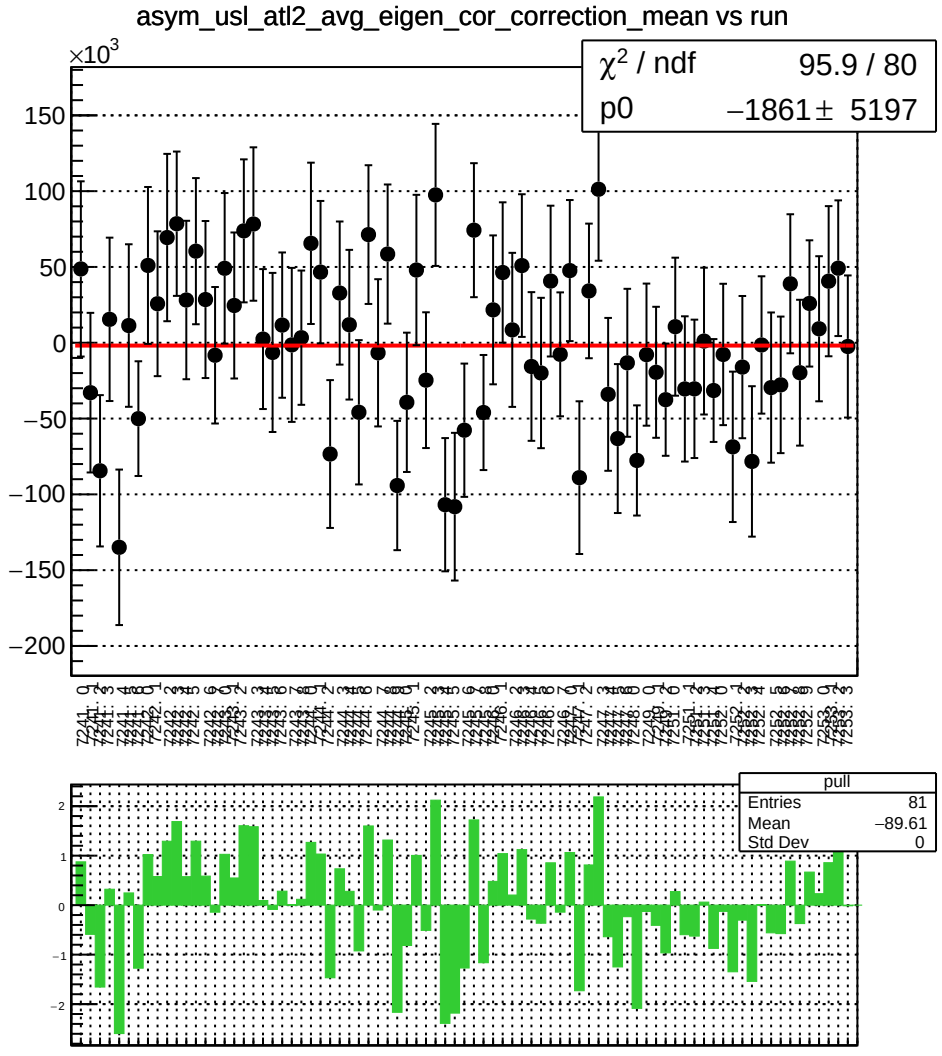

pull1D
Entries 81
Mean 0.0276
Std Dev 1.088
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

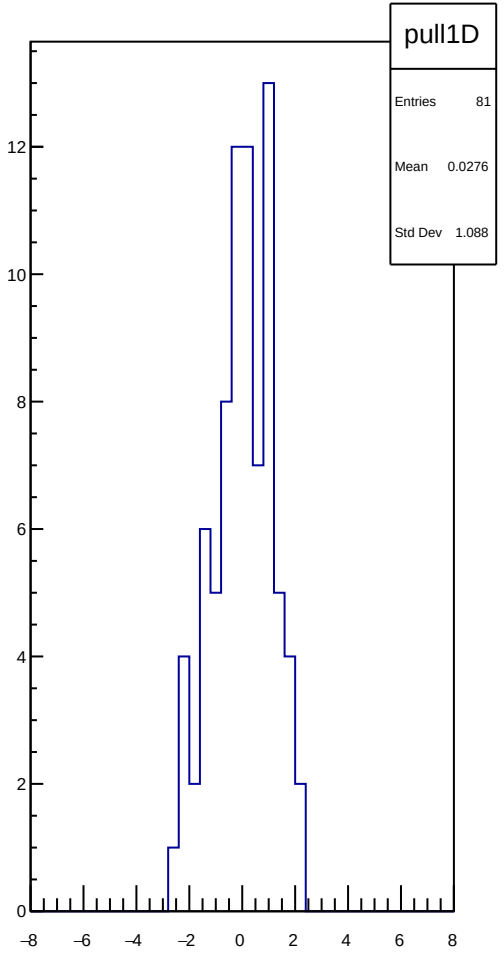

asym_usl_atl2_avg_cor_correction_rms vs run
χ² / ndf 4513 / 80
p0 4567 ± 3.675
5600
5400
5200
5000
4800
4600
4400
4200
4000

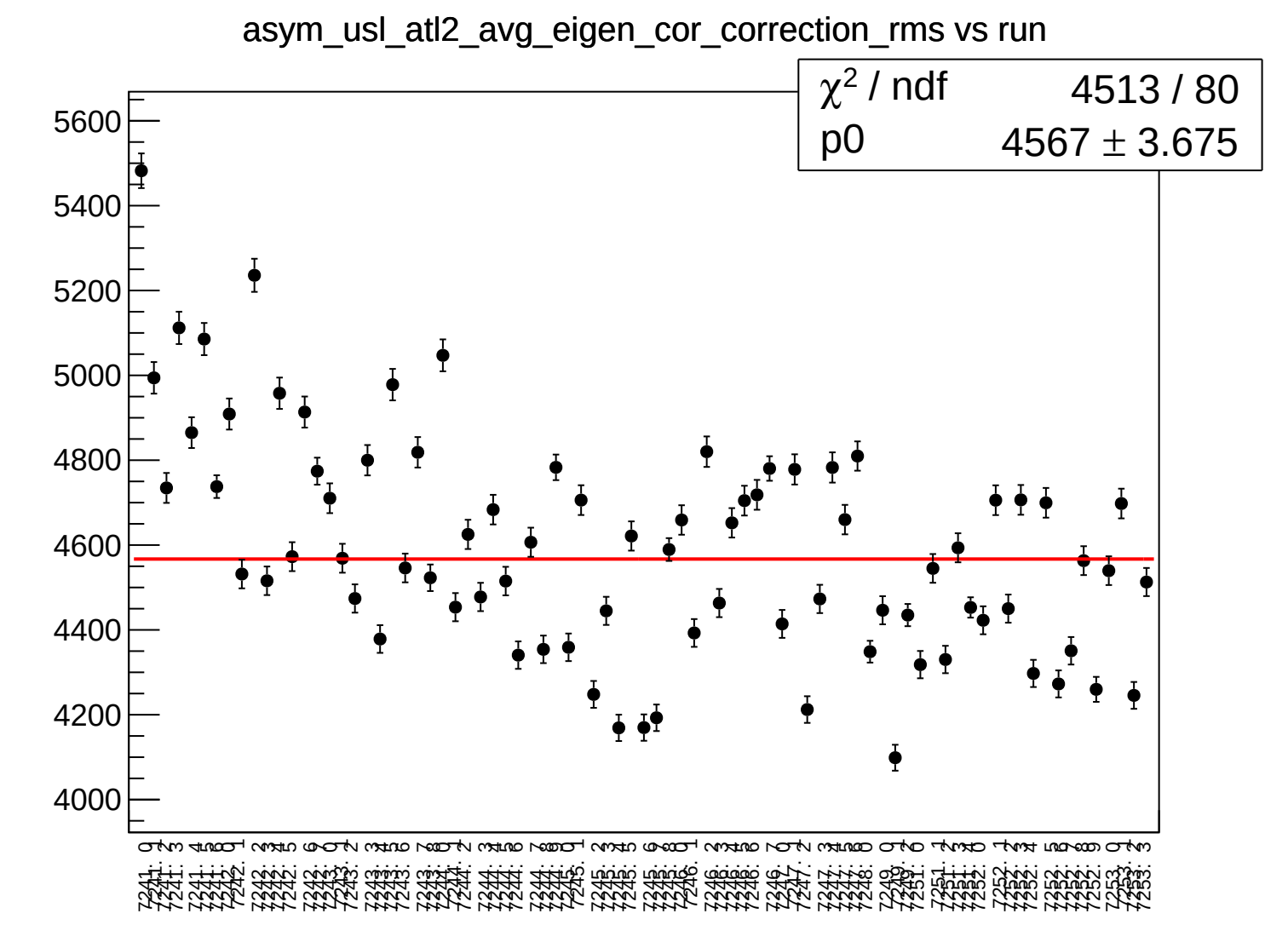

eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 53.35 / 80
p0 1384 ± 1582
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −1230
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

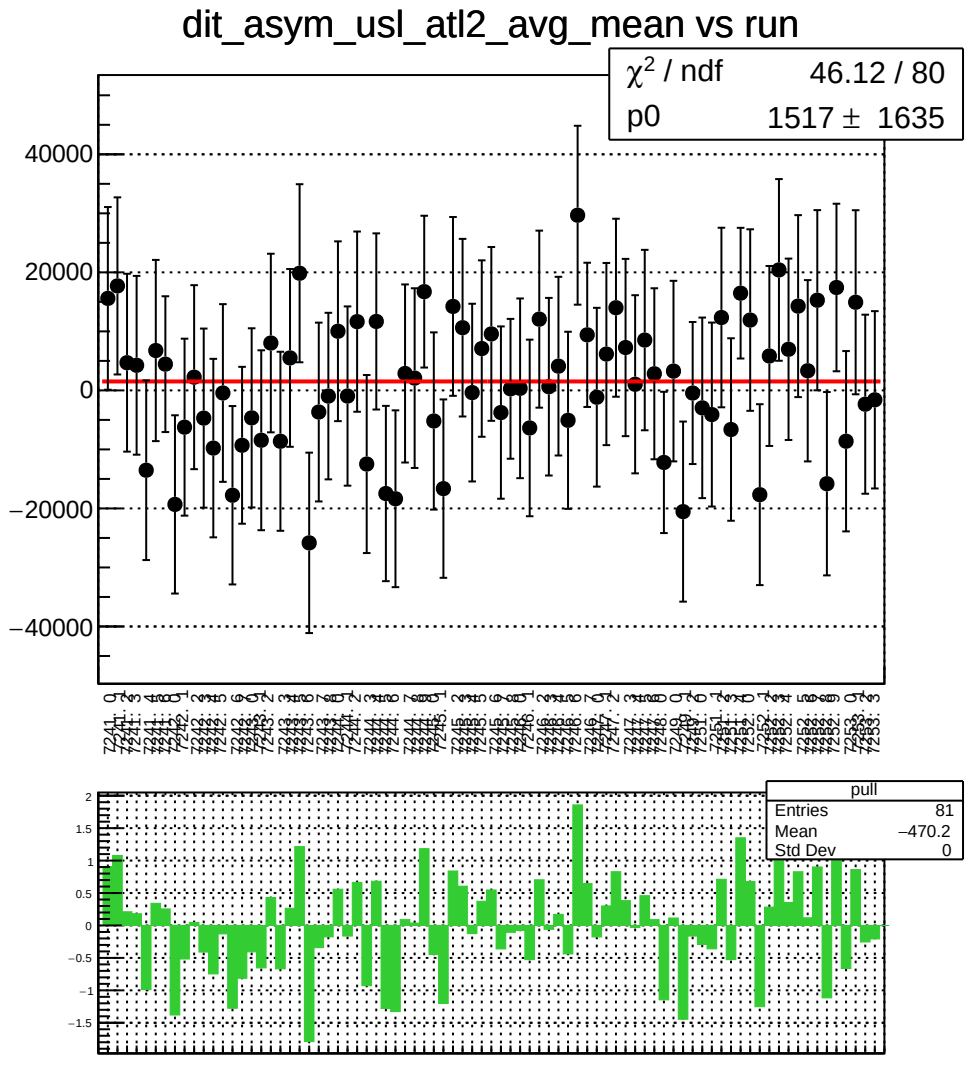

pull1D
Entries 81
Mean −0.001406
Std Dev 0.8116
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

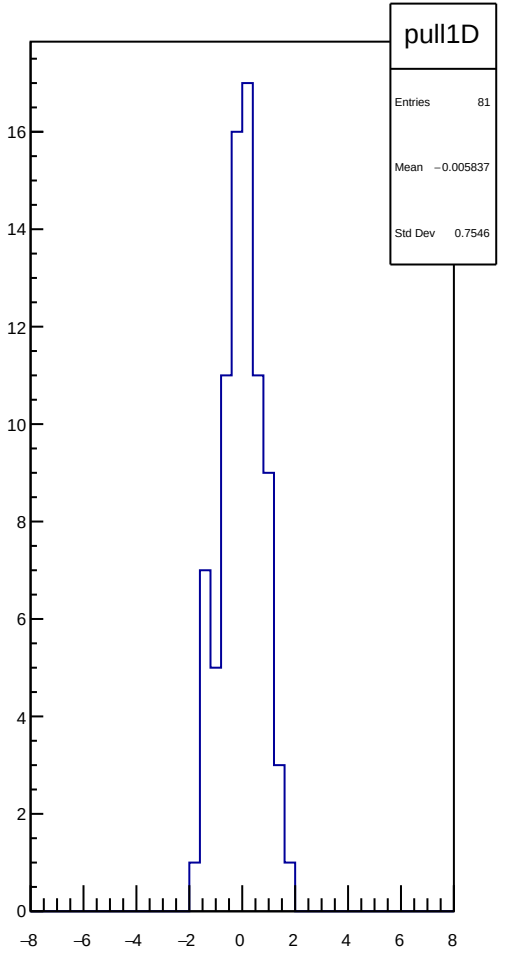

eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 102.3 / 80
p0 1392 ± 1.118
1430
1420
1410
1400
1390
1380
1370
1360
1350
1340

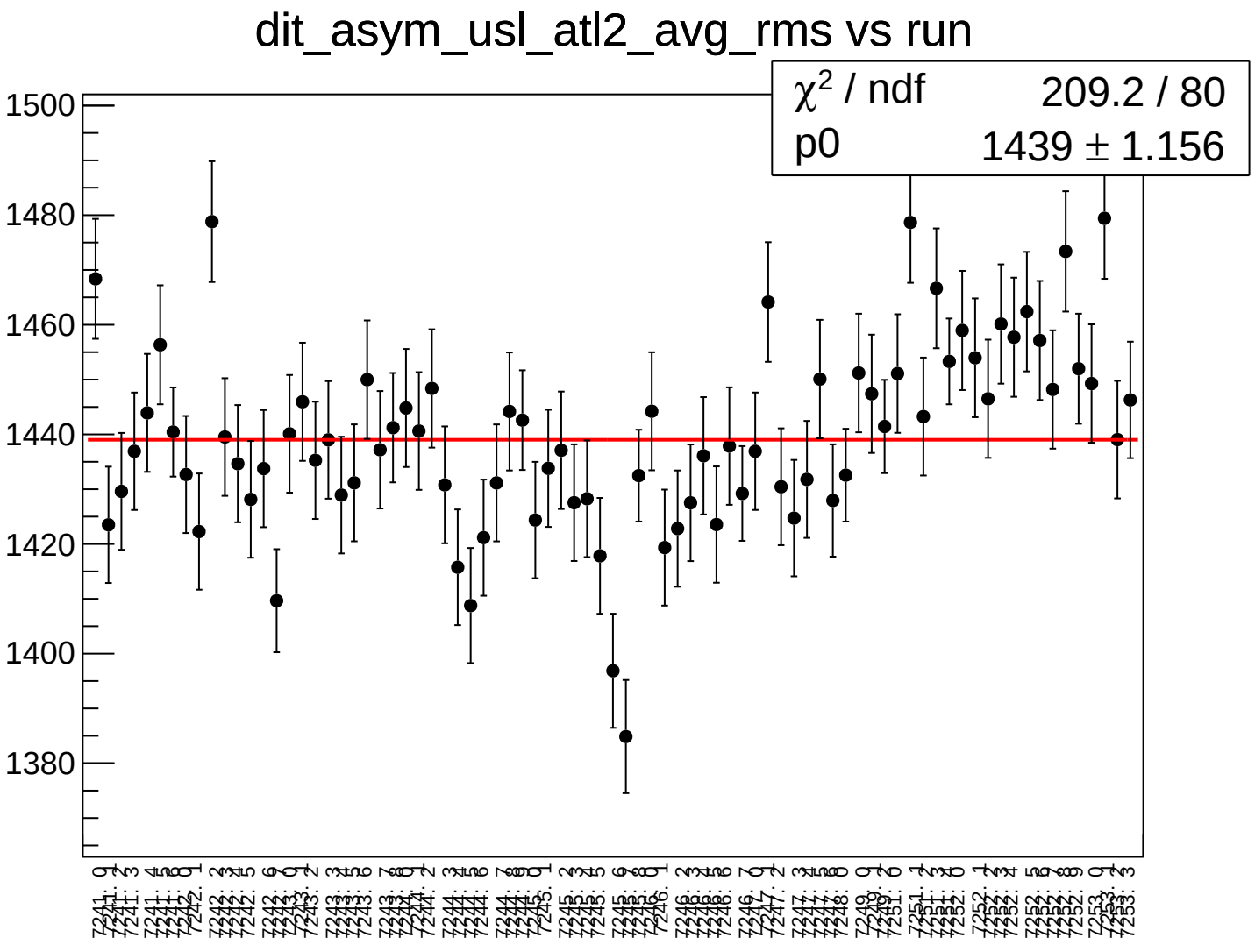

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 95.9 / 80
p0 −1861 ± 5197
150
100
50
0
−50
−100
−150
−200
pull
Entries 81
Mean −89.61
Std Dev 0
2
1
0
−1
−2

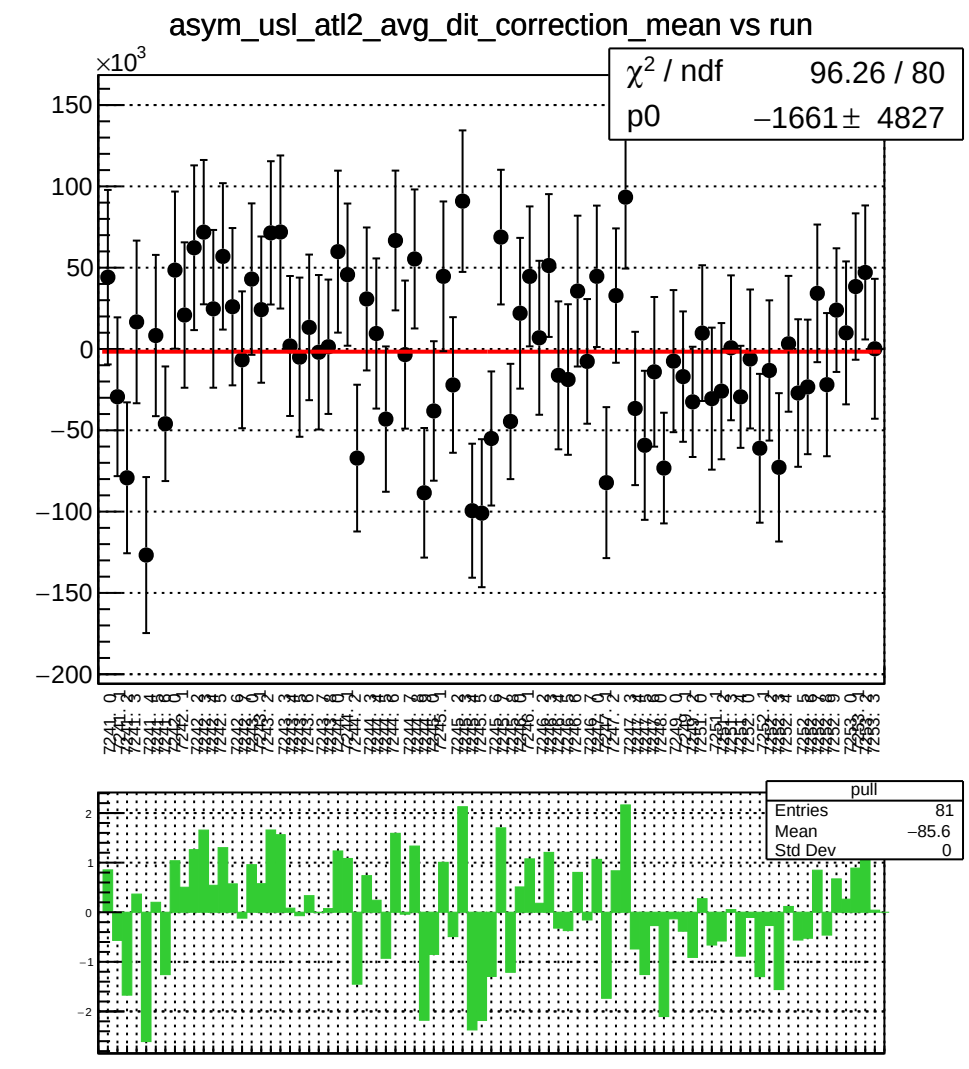

pull1D
Entries 81
Mean 0.0276
Std Dev 1.088
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

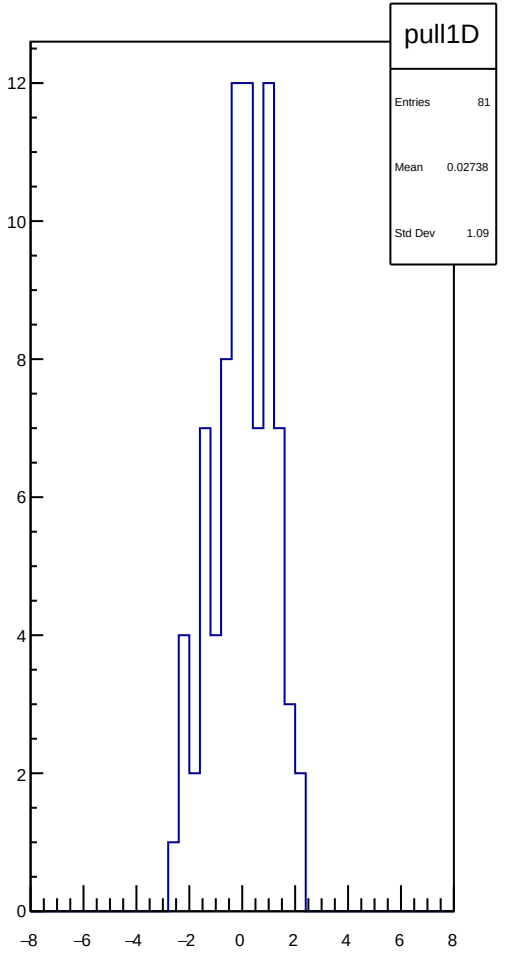

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 4513 / 80
p0 4567 ± 3.675
5600
5400
5200
5000
4800
4600
4400
4200
4000

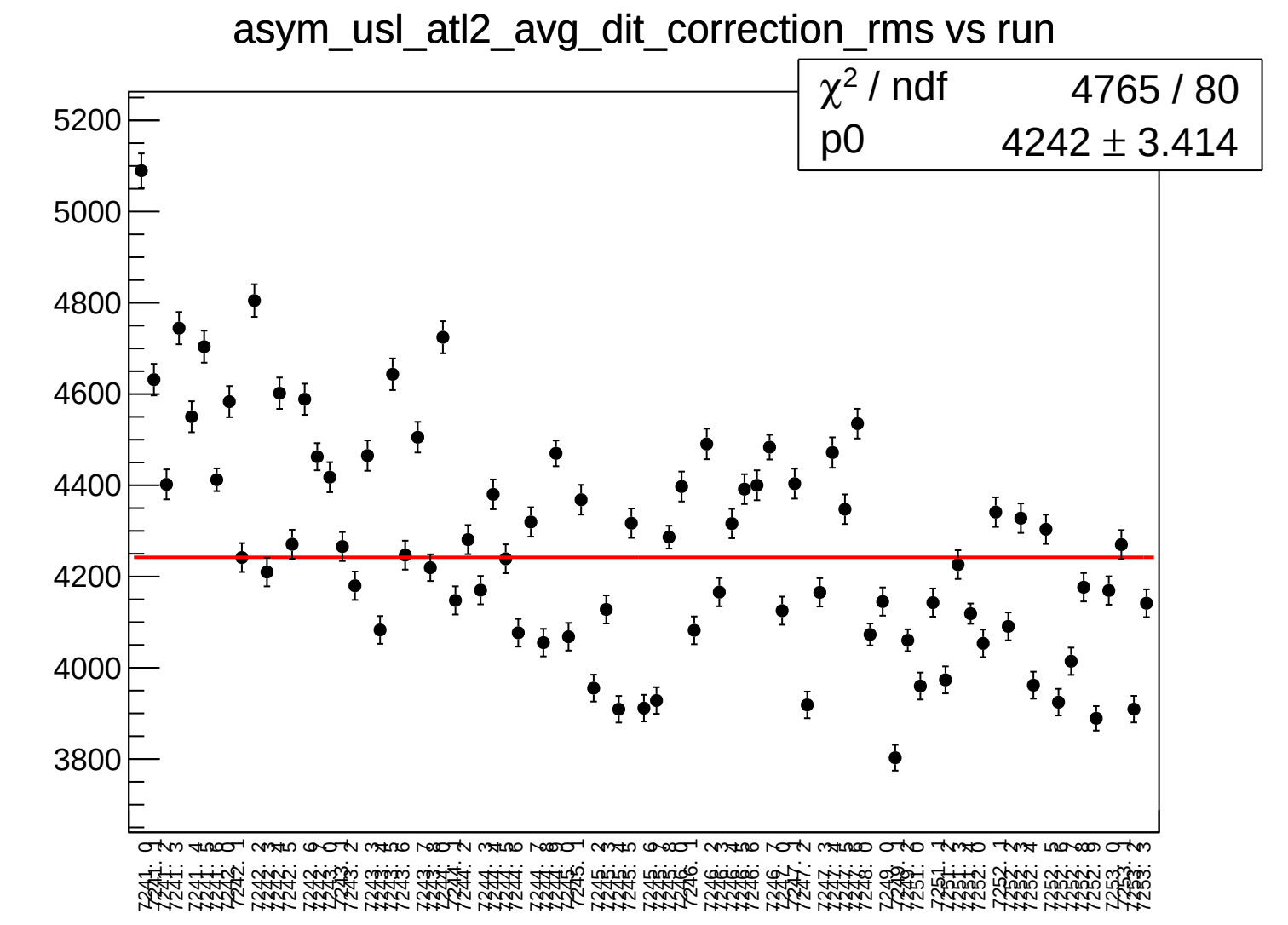

dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 46.12 / 80
p0 1517 ± 1635
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −470.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

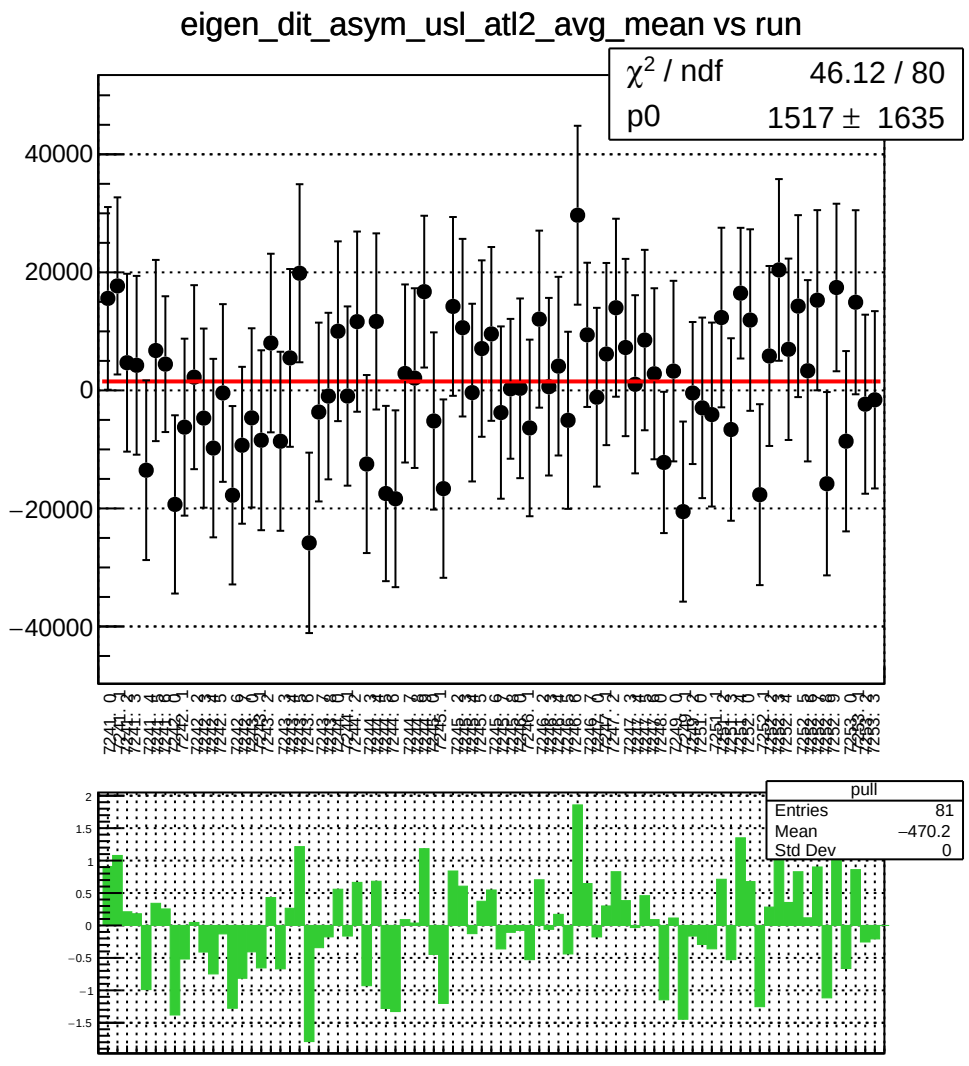

pull1D
Entries 81
Mean −0.005837
Std Dev 0.7546
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

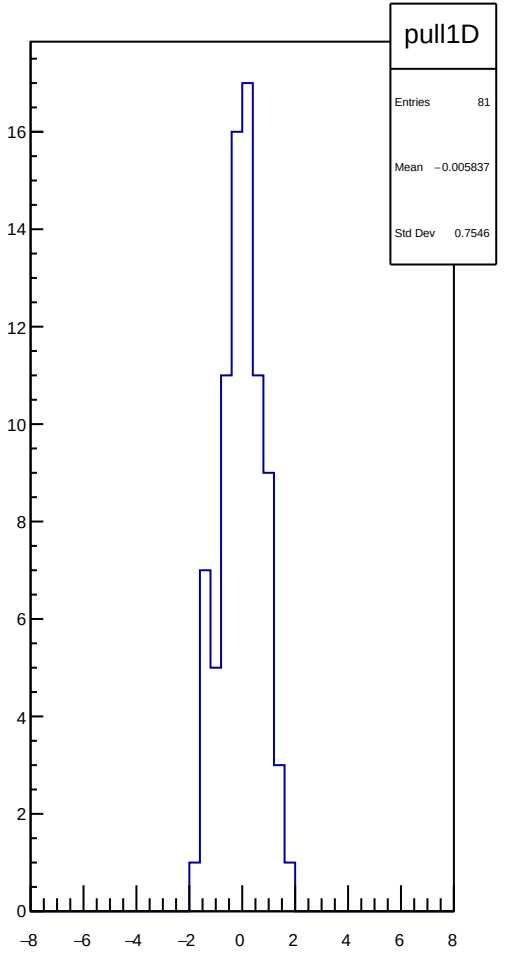

dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 209.2 / 80
p0 1439 ± 1.156
1500
1480
1460
1440
1420
1400
1380

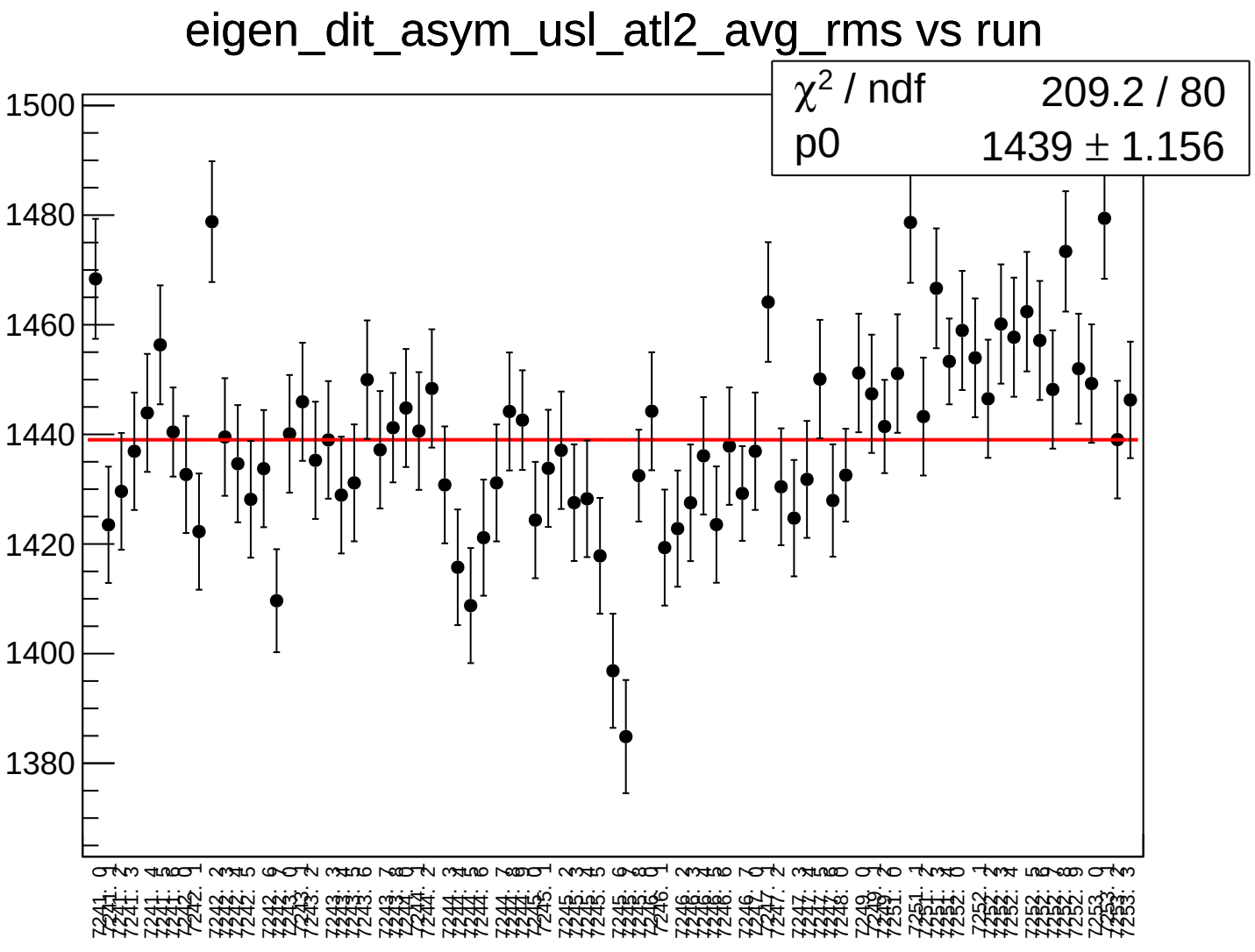

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 96.26 / 80
p0 −1661 ± 4827
150
100
50
0
−50
−100
−150
−200
pull
Entries 81
Mean −85.6
Std Dev 0
2
1
0
−1

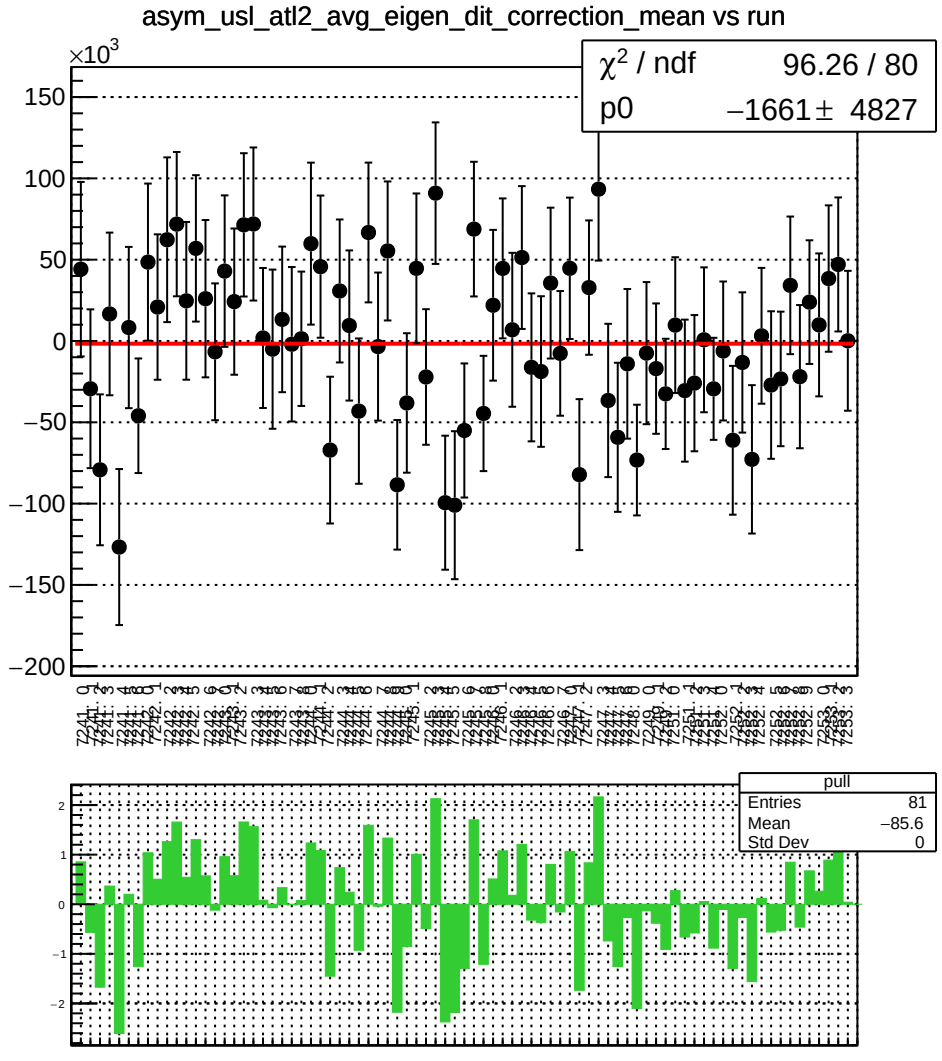

pull1D
Entries 81
Mean 0.02738
Std Dev 1.09
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

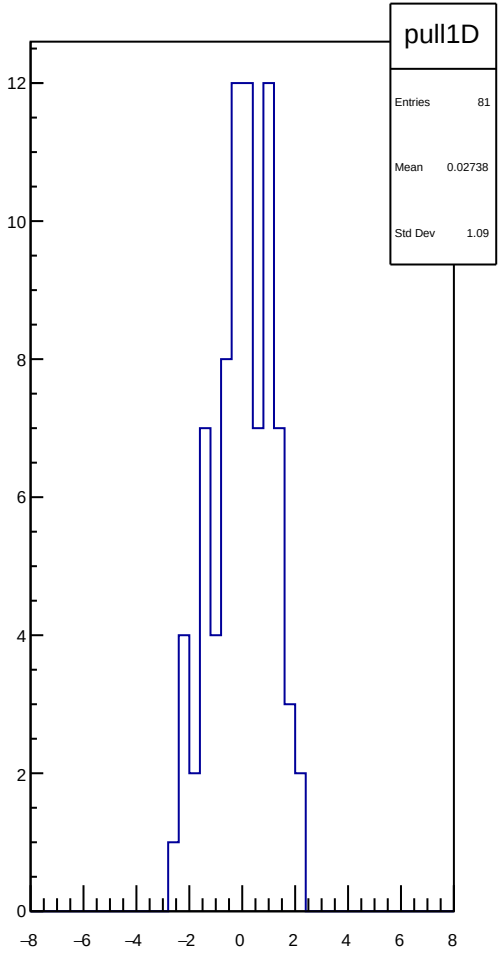

asym_usl_atl2_avg_dit_correction_rms vs run
χ^2 / ndf 4765 / 80
p0 4242 ± 3.414
5200
5000
4800
4600
4400
4200
4000
3800

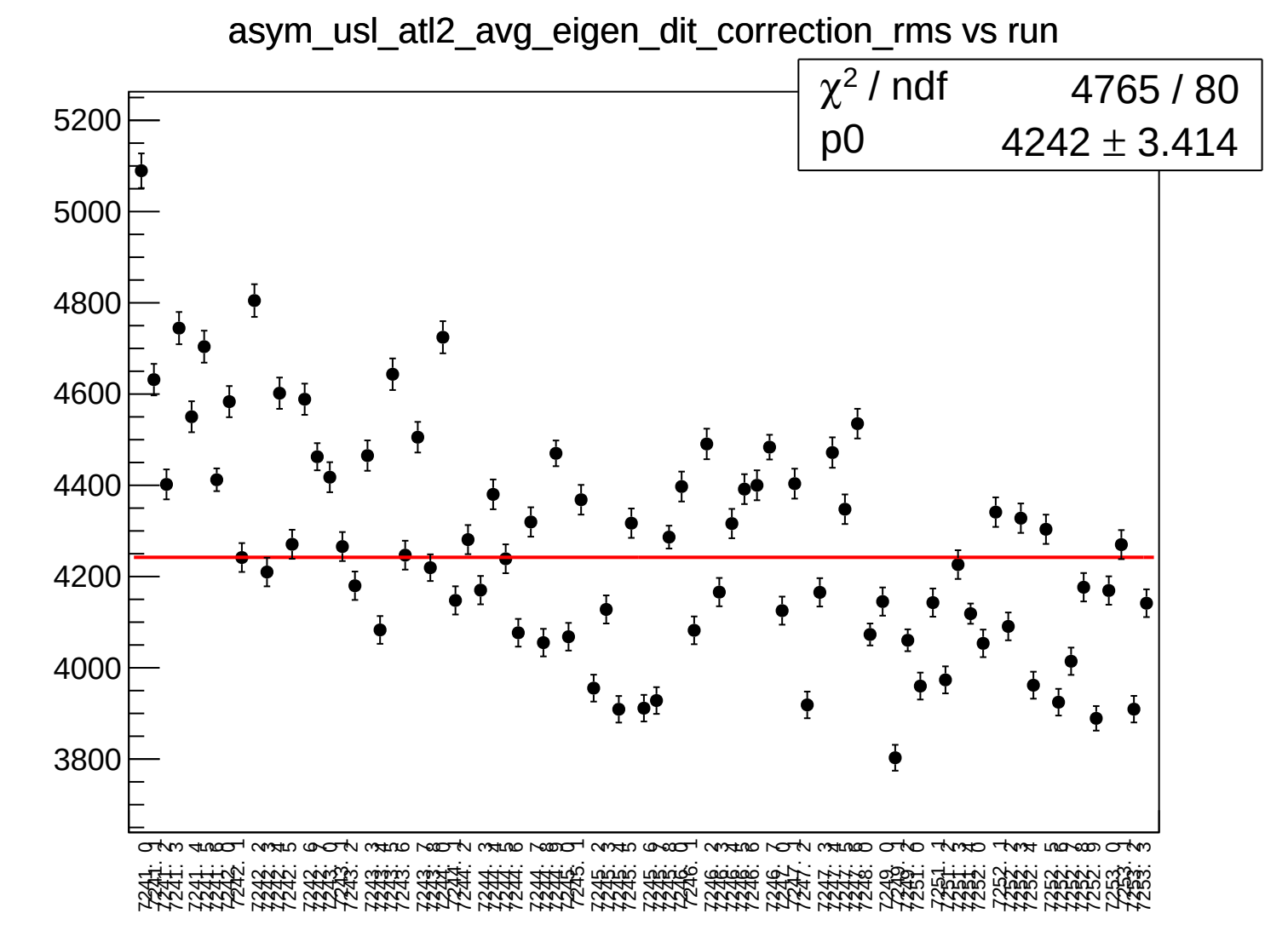

eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 46.12 / 80
p0 1517 ± 1635
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −470.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

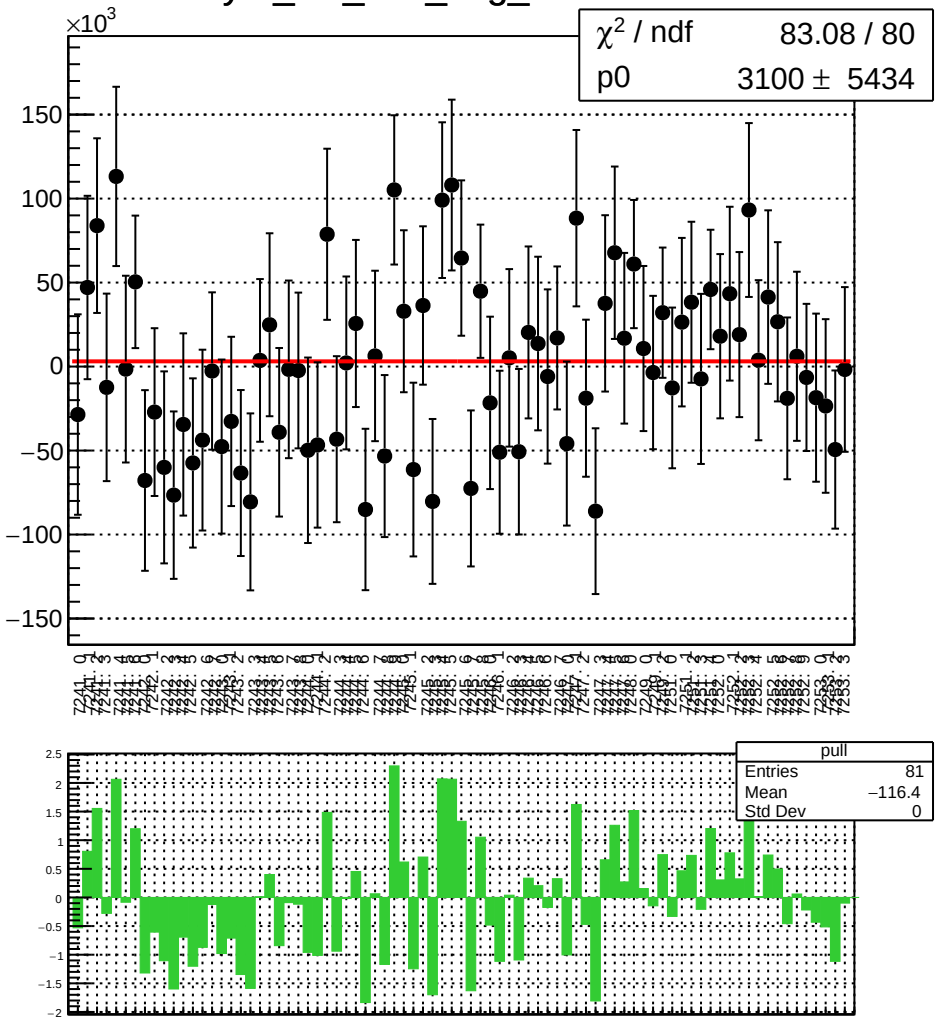

pull1D
Entries 81
Mean −0.005837
Std Dev 0.7546
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

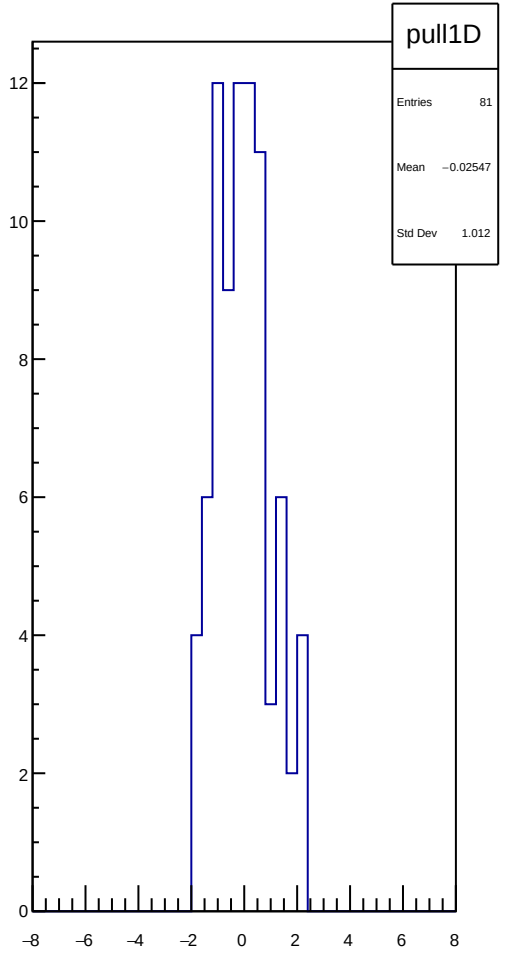

eigen_dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 209.2 / 80
p0 1439 ± 1.156
1500
1480
1460
1440
1420
1400
1380

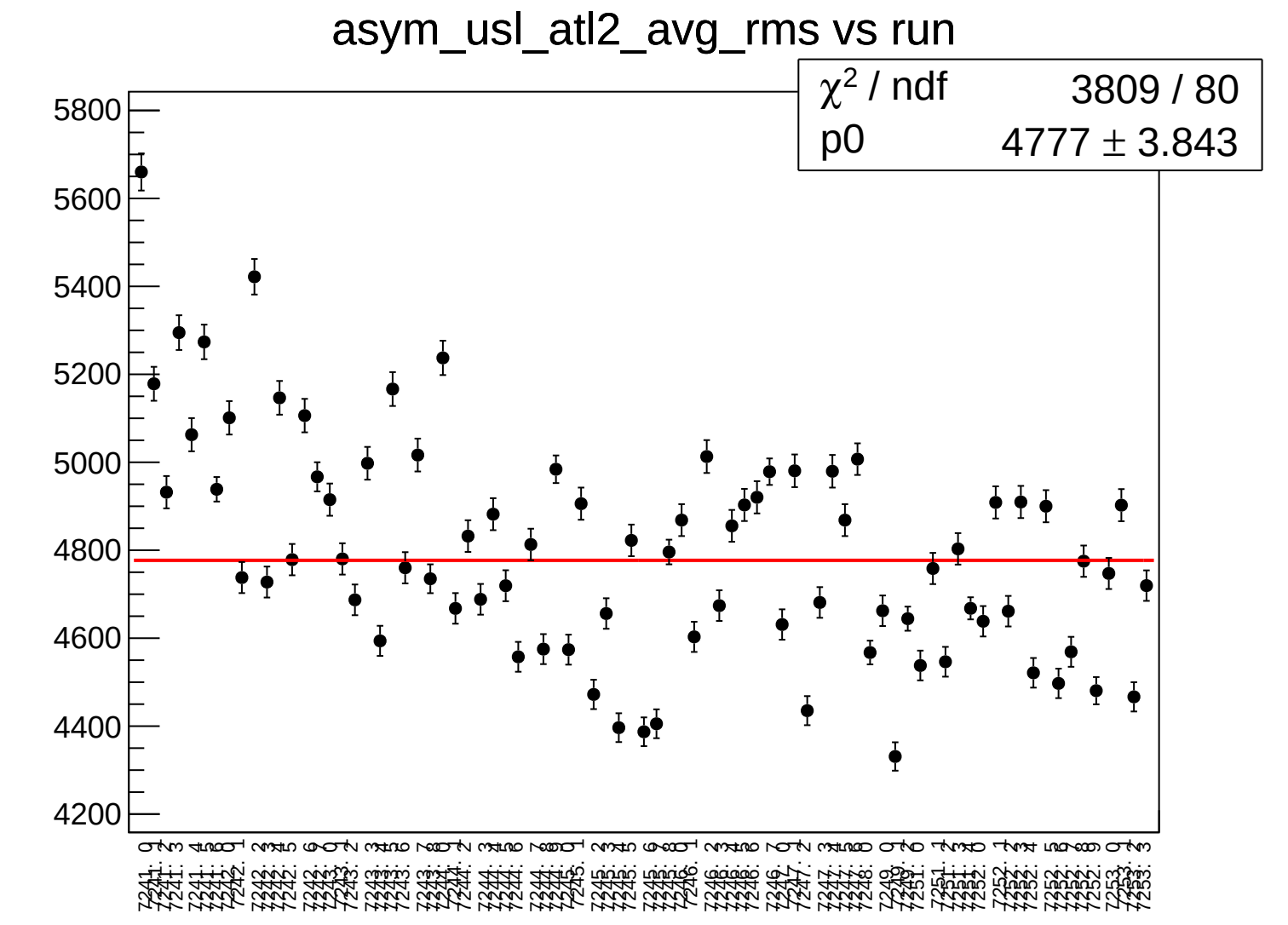

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.26 / 80
p0 −1661 ± 4827
150
100
50
0
−50
−100
−150
−200
pull
Entries 81
Mean −85.6
Std Dev 0
2
1
0
−1
−2

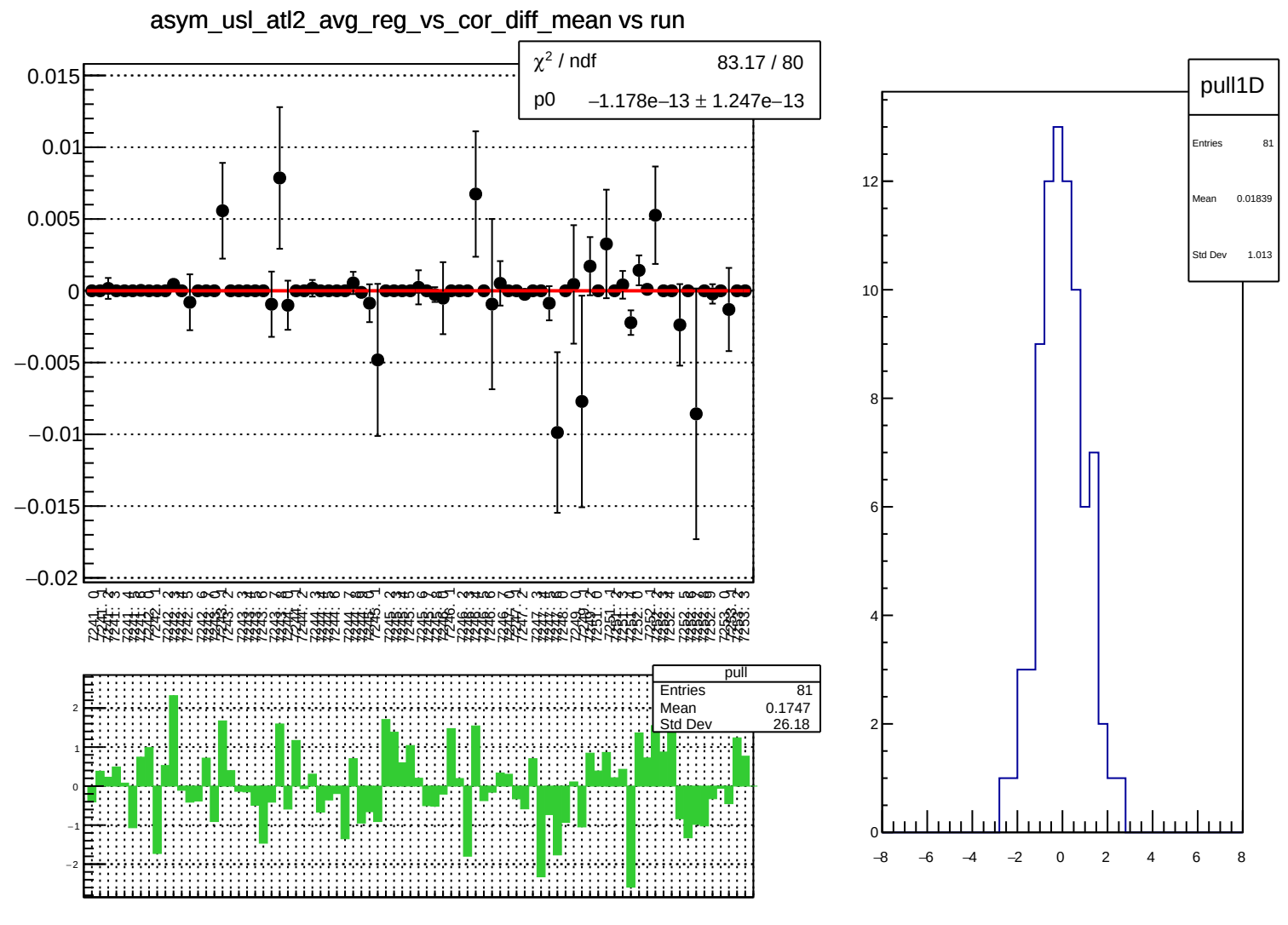

pull1D
Entries 81
Mean 0.02738
Std Dev 1.09
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

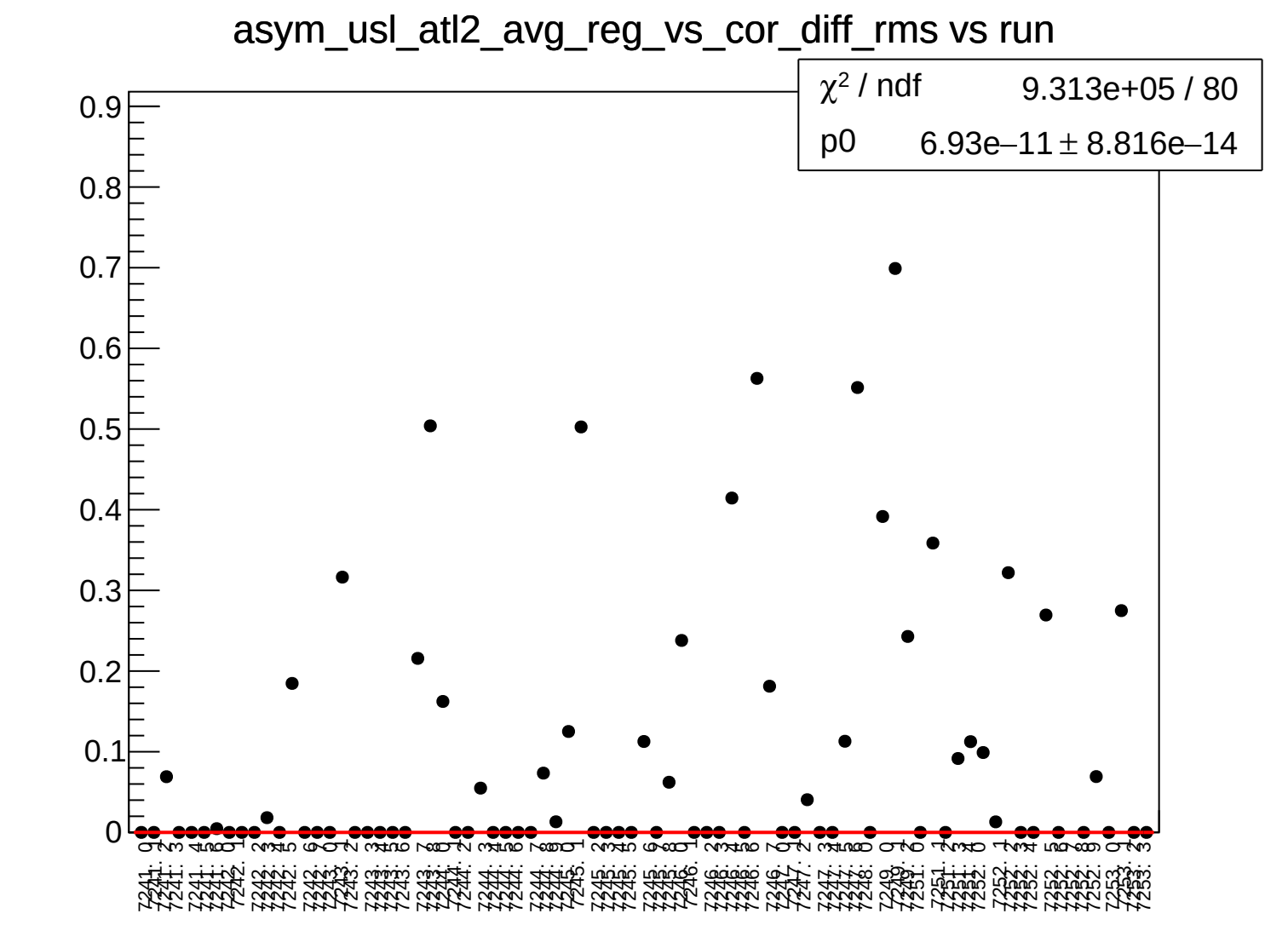

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 4765 / 80
p0 4242 ± 3.414
5200
5000
4800
4600
4400
4200
4000
3800

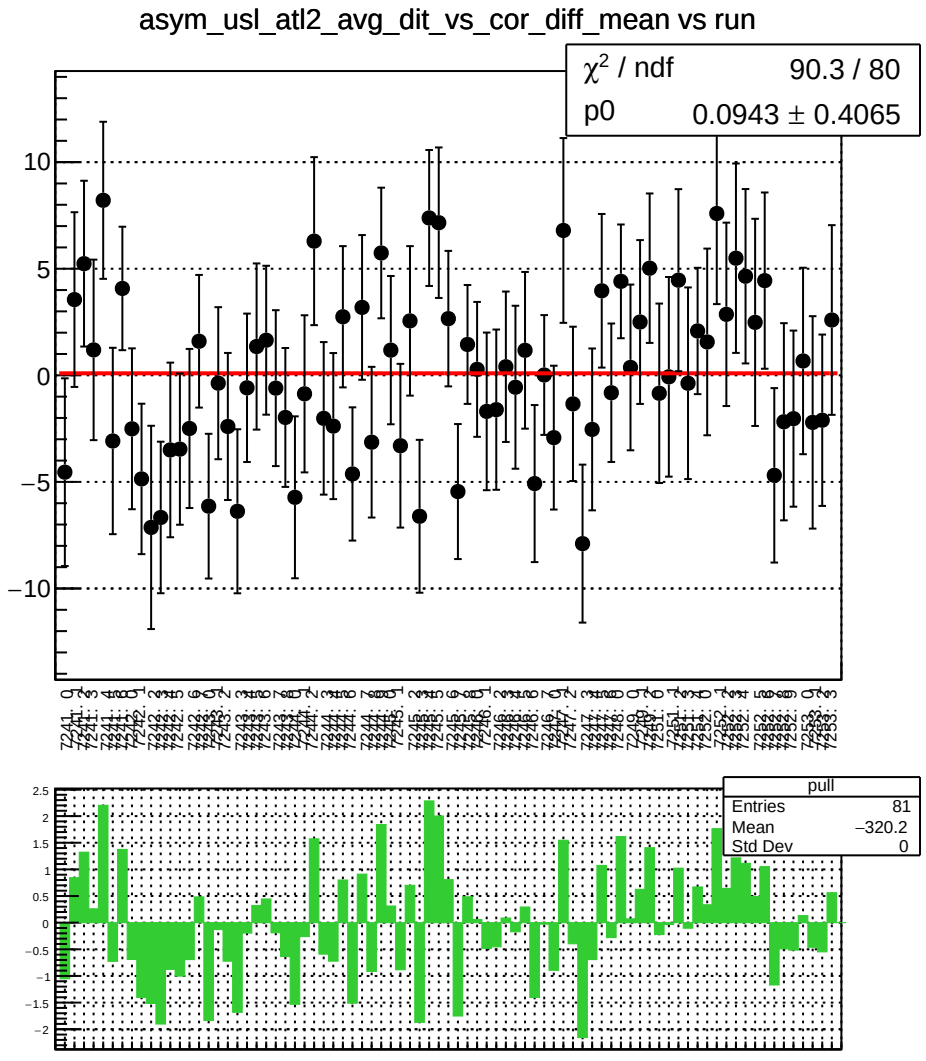

asym_usl_atl2_avg_mean vs run
×10^3
χ^2 / ndf 83.08 / 80
p0 3100 ± 5434
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean −116.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

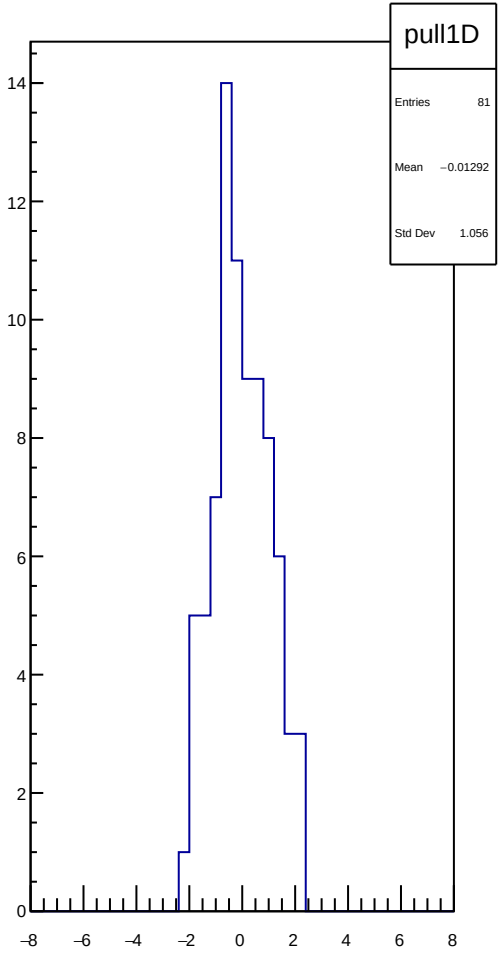

pull1D
Entries 81
Mean −0.02547
Std Dev 1.012
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

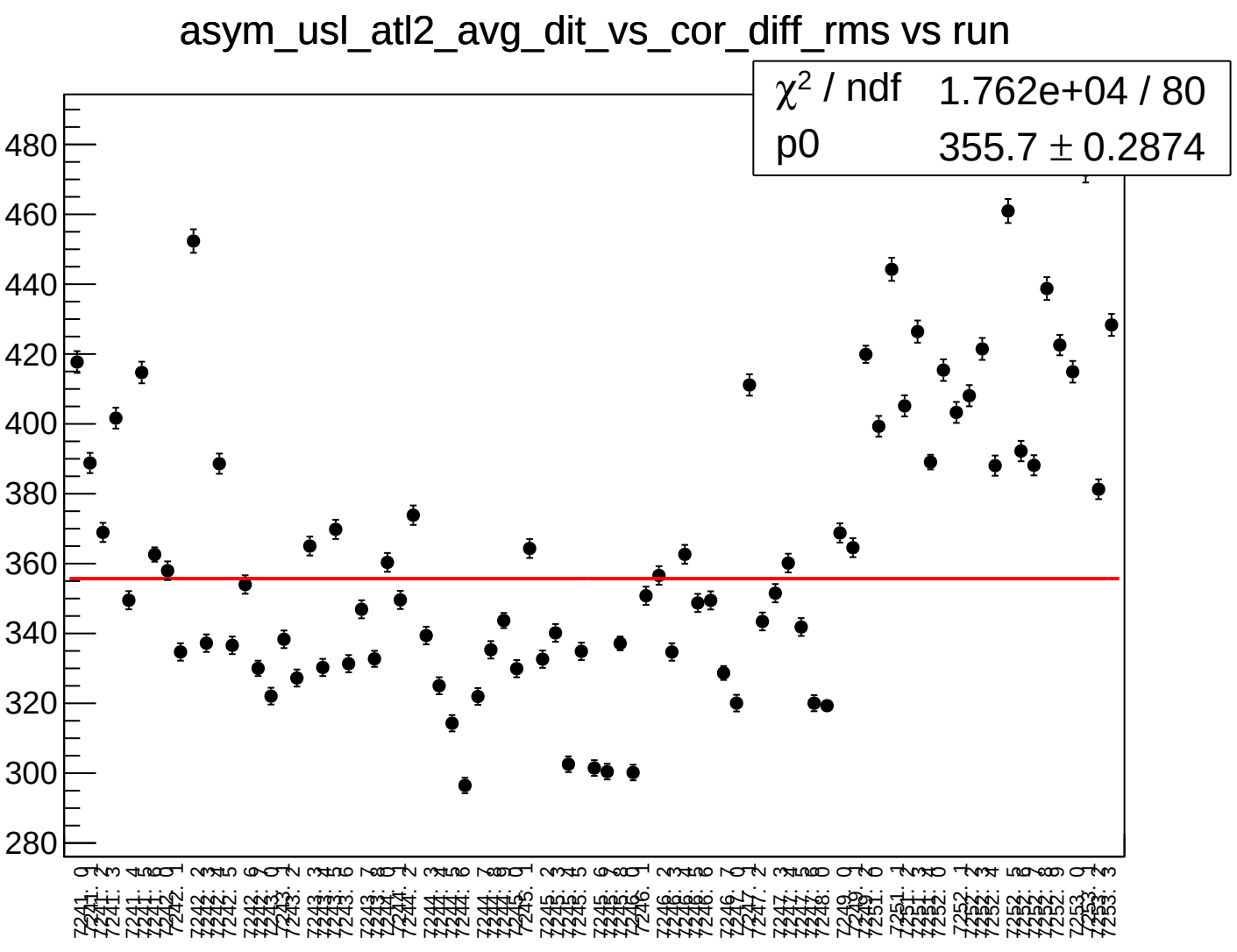

asym_usl_atl2_avg_rms vs run
χ² / ndf 3809 / 80
p0 4777 ± 3.843
5800
5600
5400
5200
5000
4800
4600
4400
4200

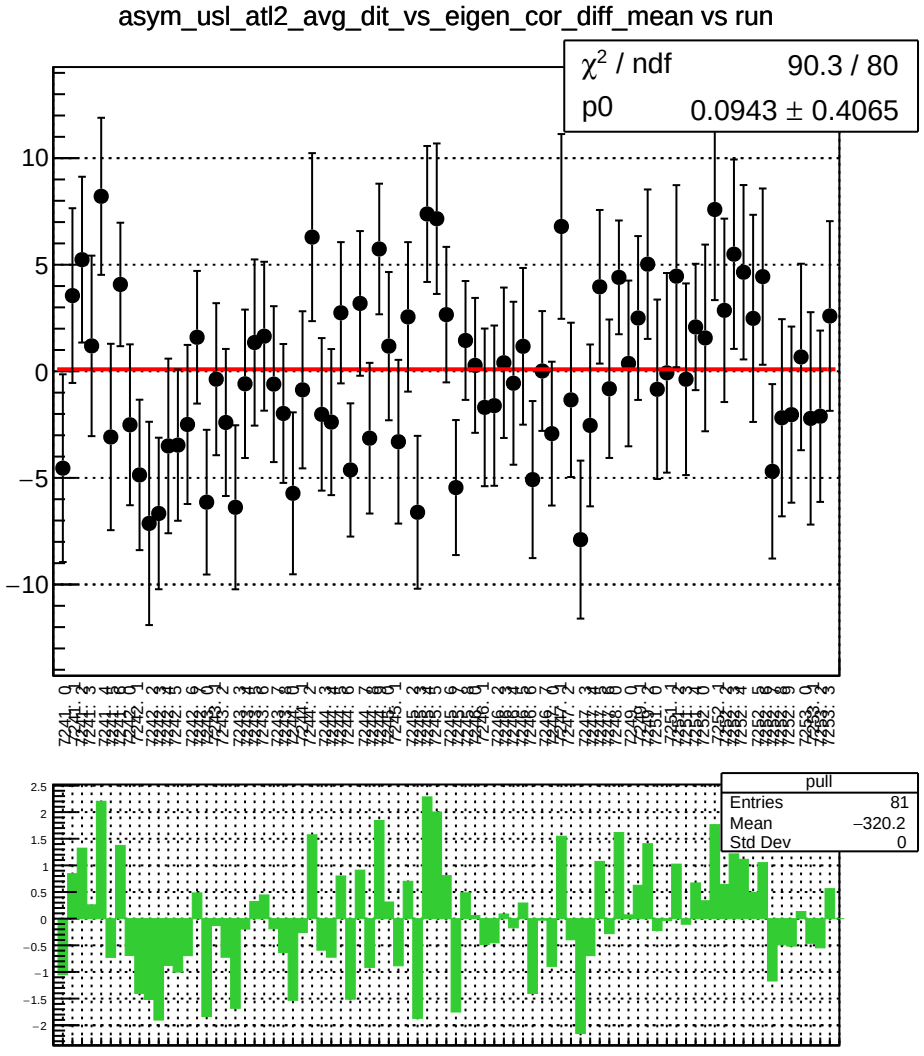

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 83.17 / 80
p0 −1.178e−13 ± 1.247e−13
pull
Entries 81
Mean 0.1747
Std Dev 26.18
pull1D
Entries 81
Mean 0.01839
Std Dev 1.013

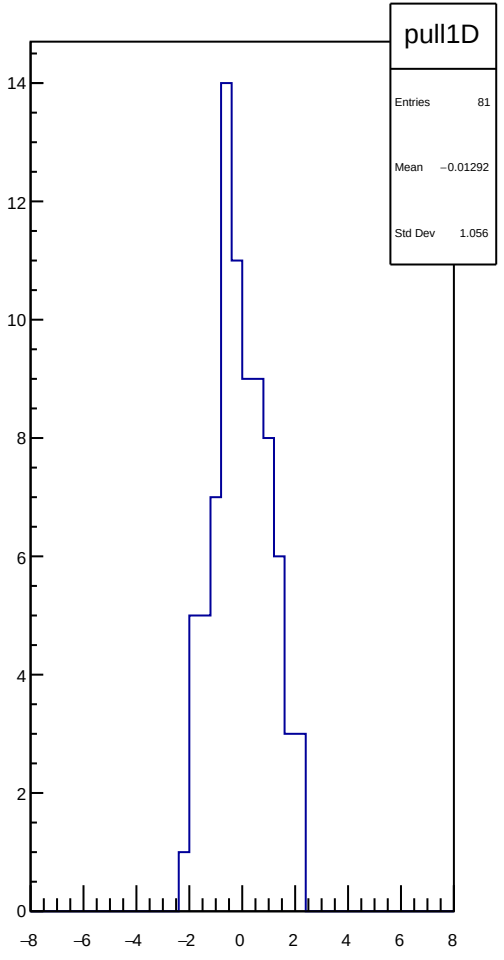

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.313e+05 / 80
p0 6.93e−11 ± 8.816e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

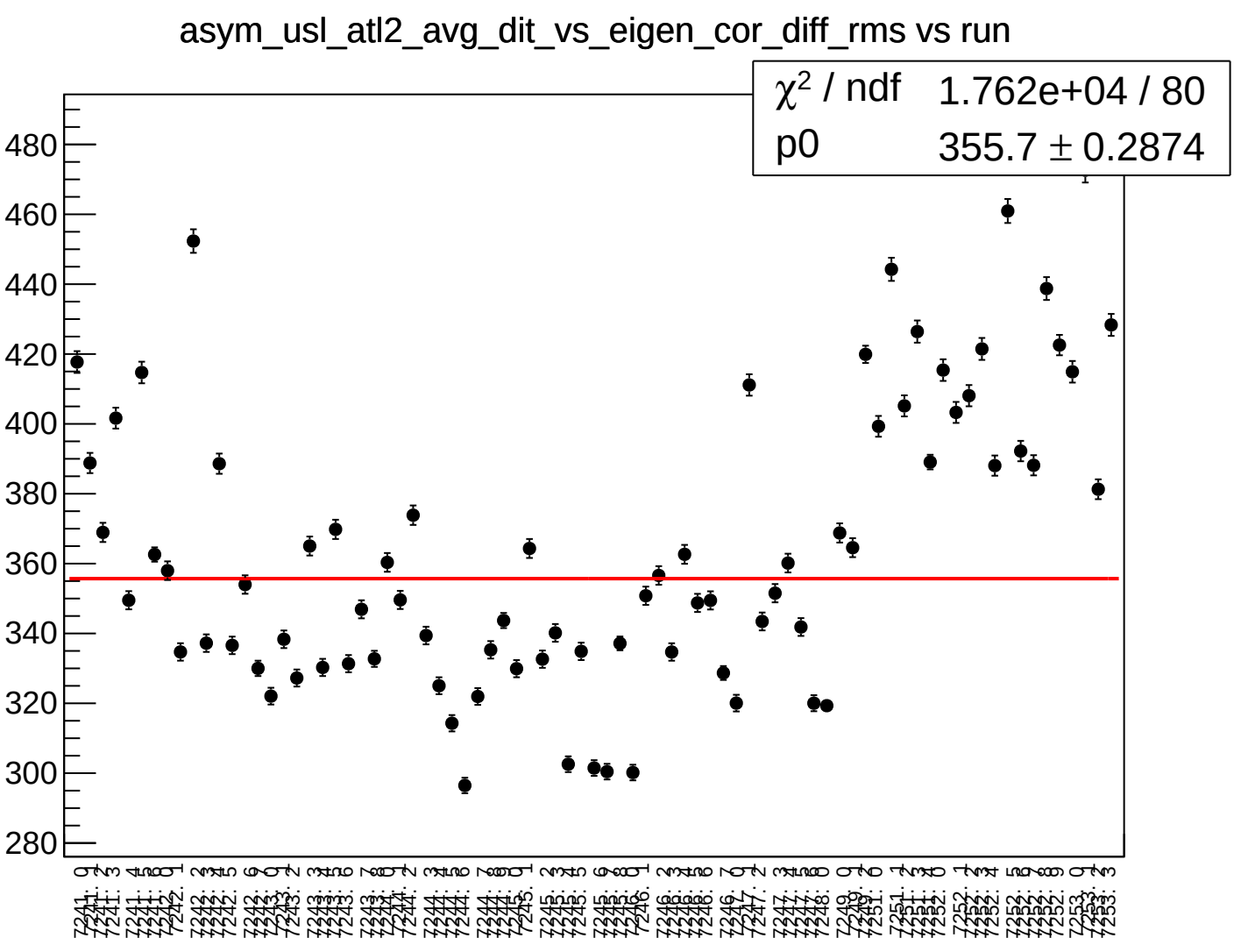

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 90.3 / 80
p0 0.0943 ± 0.4065
pull
Entries 81
Mean −320.2
Std Dev 0

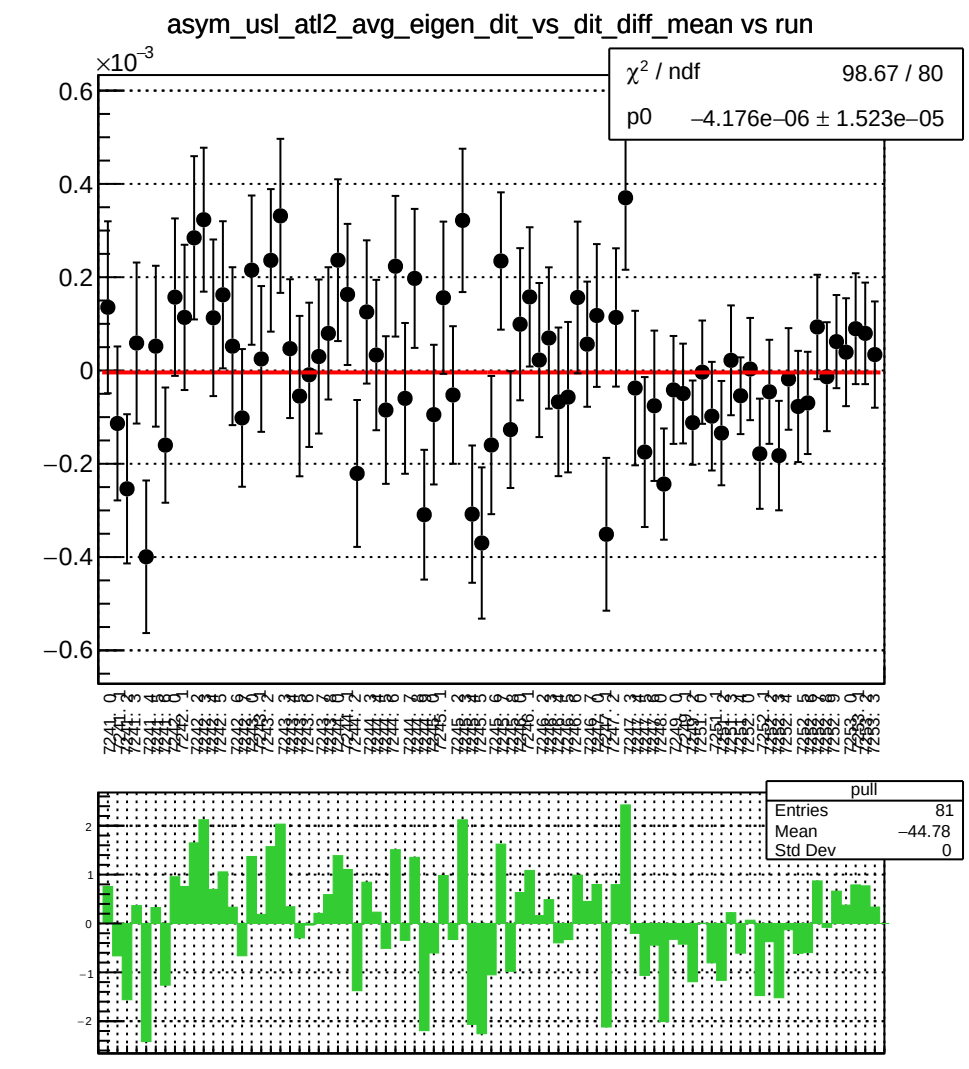

pull1D
Entries 81
Mean −0.01292
Std Dev 1.056

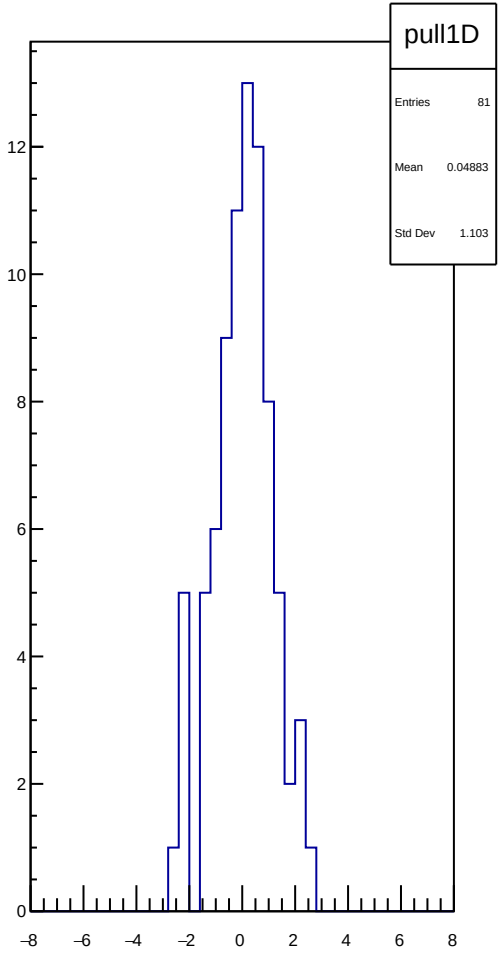

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.762e+04 / 80
p0 355.7 ± 0.2874
480
460
440
420
400
380
360
340
320
300
280

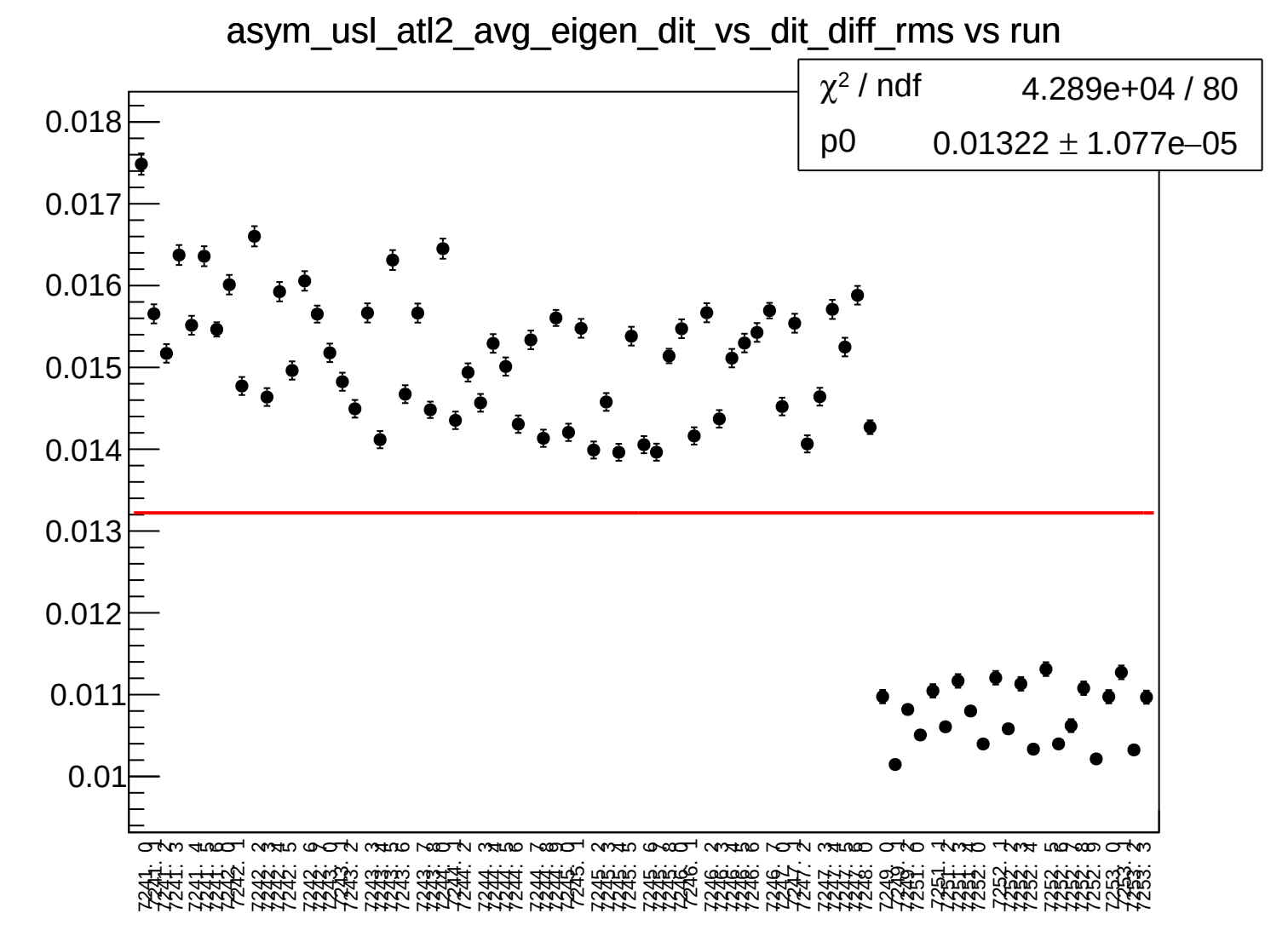

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.3 / 80
p0 0.0943 ± 0.4065
pull
Entries 81
Mean −320.2
Std Dev 0

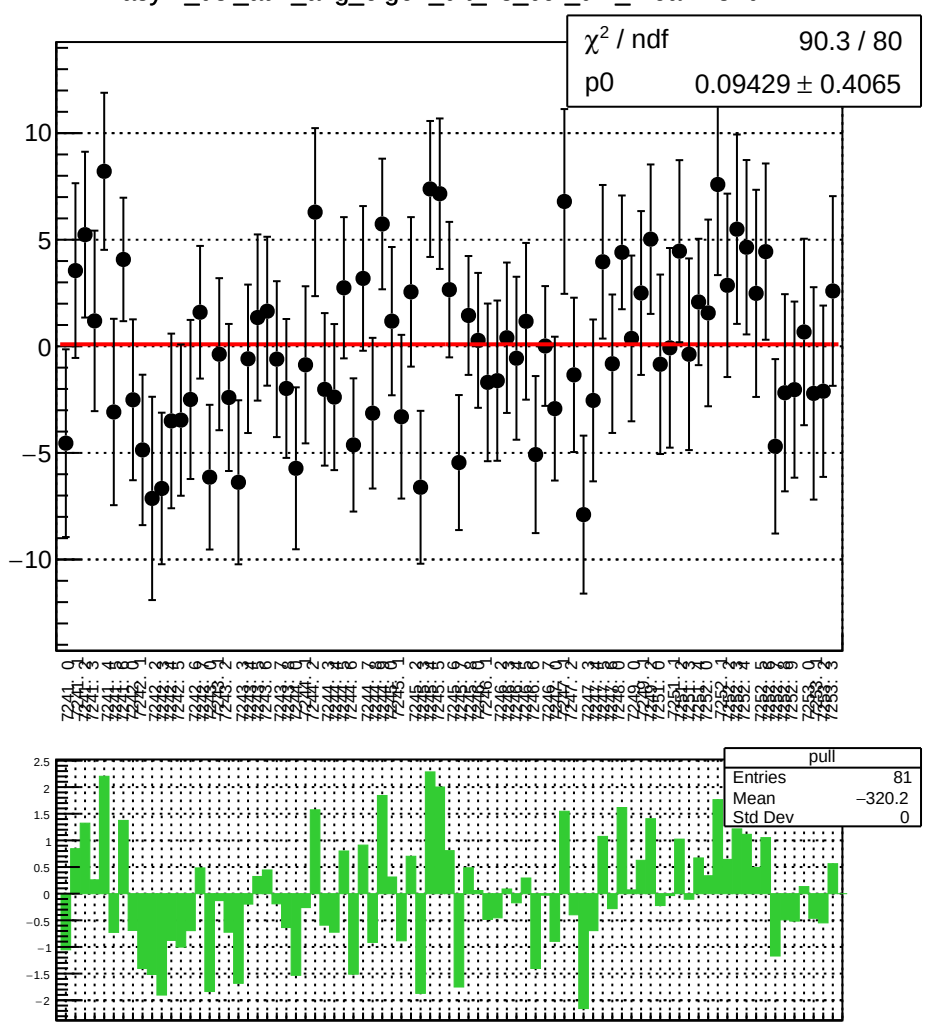

pull1D
Entries 81
Mean −0.01292
Std Dev 1.056

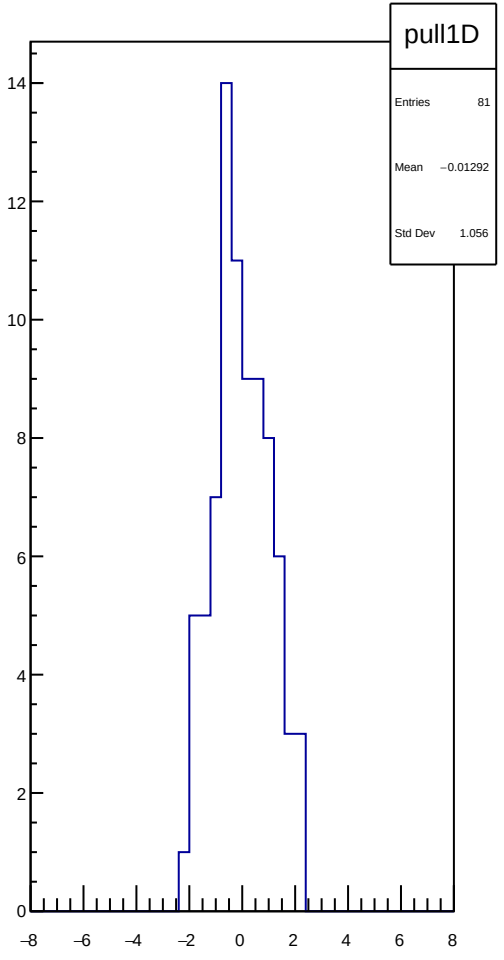

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.762e+04 / 80
p0 355.7 ± 0.2874
480
460
440
420
400
380
360
340
320
300
280

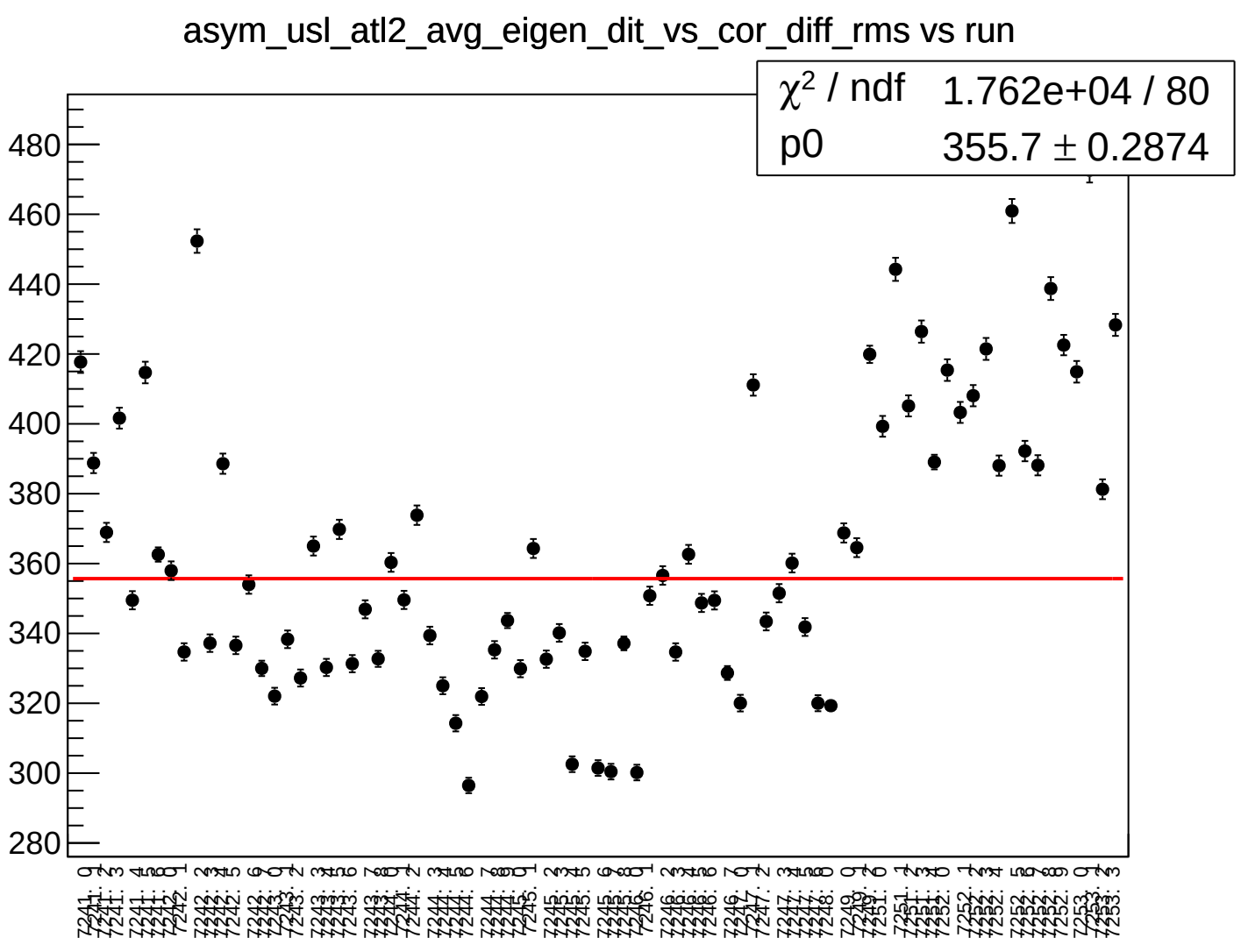

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.67 / 80
p0 −4.176e−06 ± 1.523e−05
pull
Entries 81
Mean −44.78
Std Dev 0

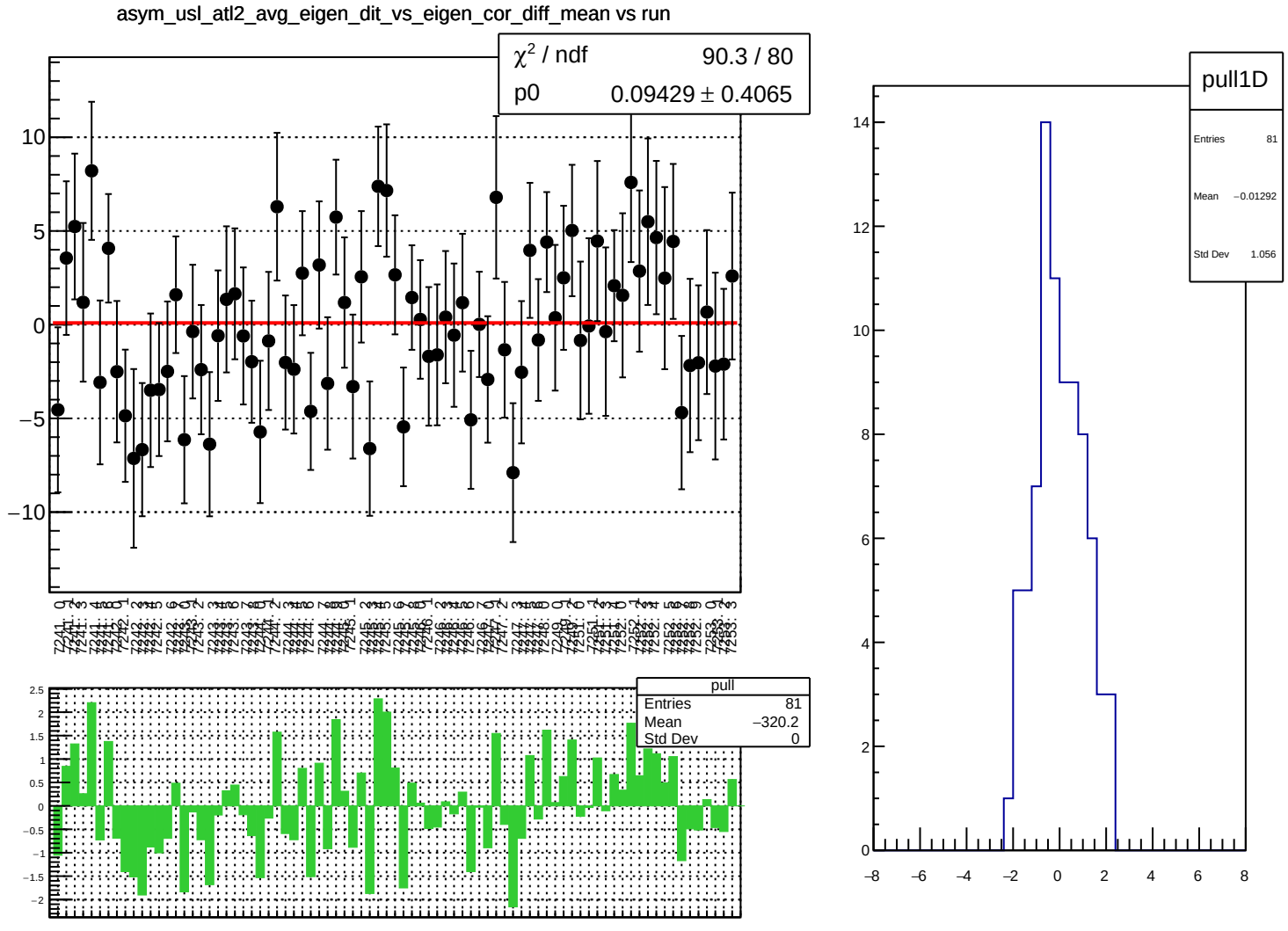

pull1D
Entries 81
Mean 0.04883
Std Dev 1.103

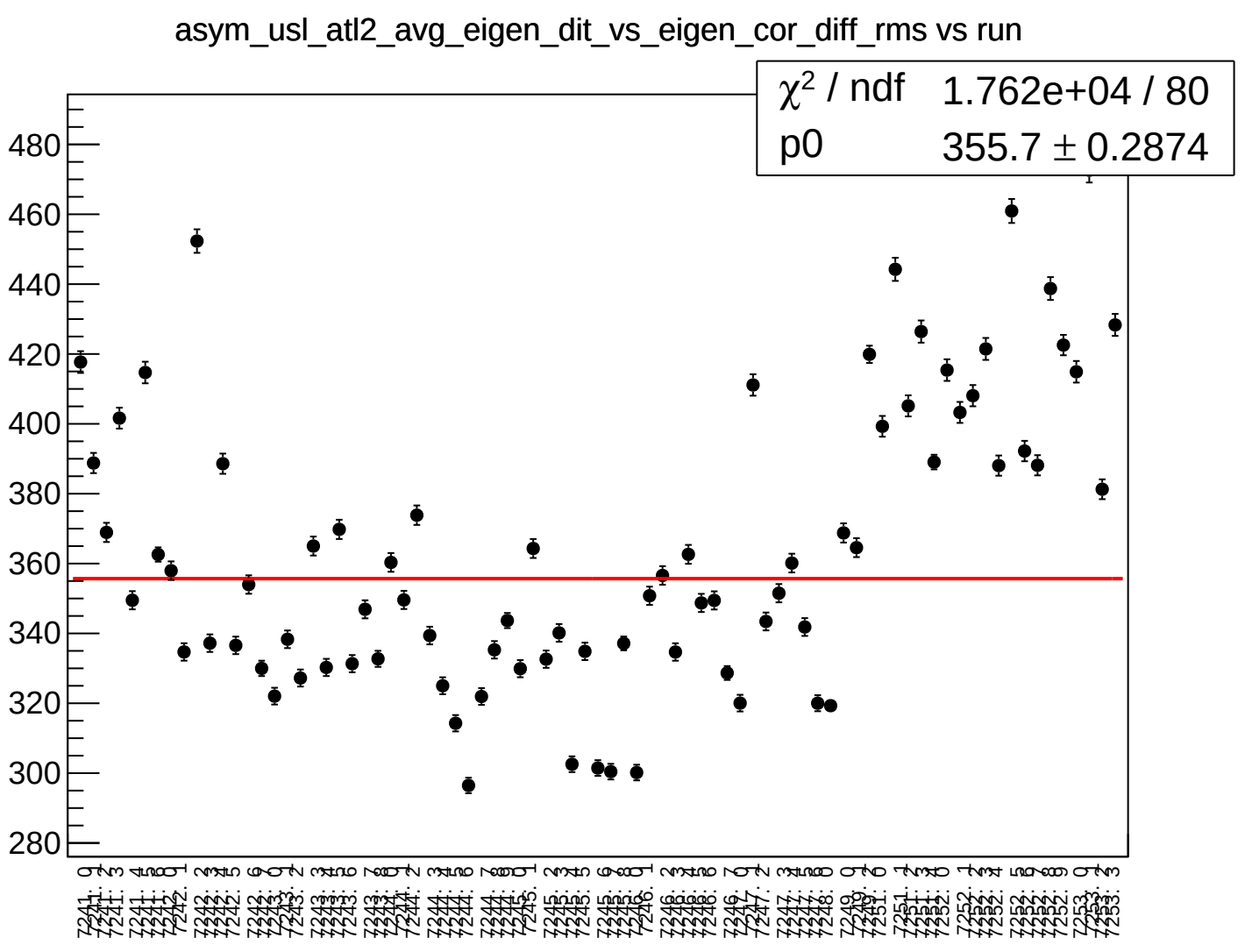

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.289e+04 / 80
p0 0.01322 ± 1.077e−05
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01

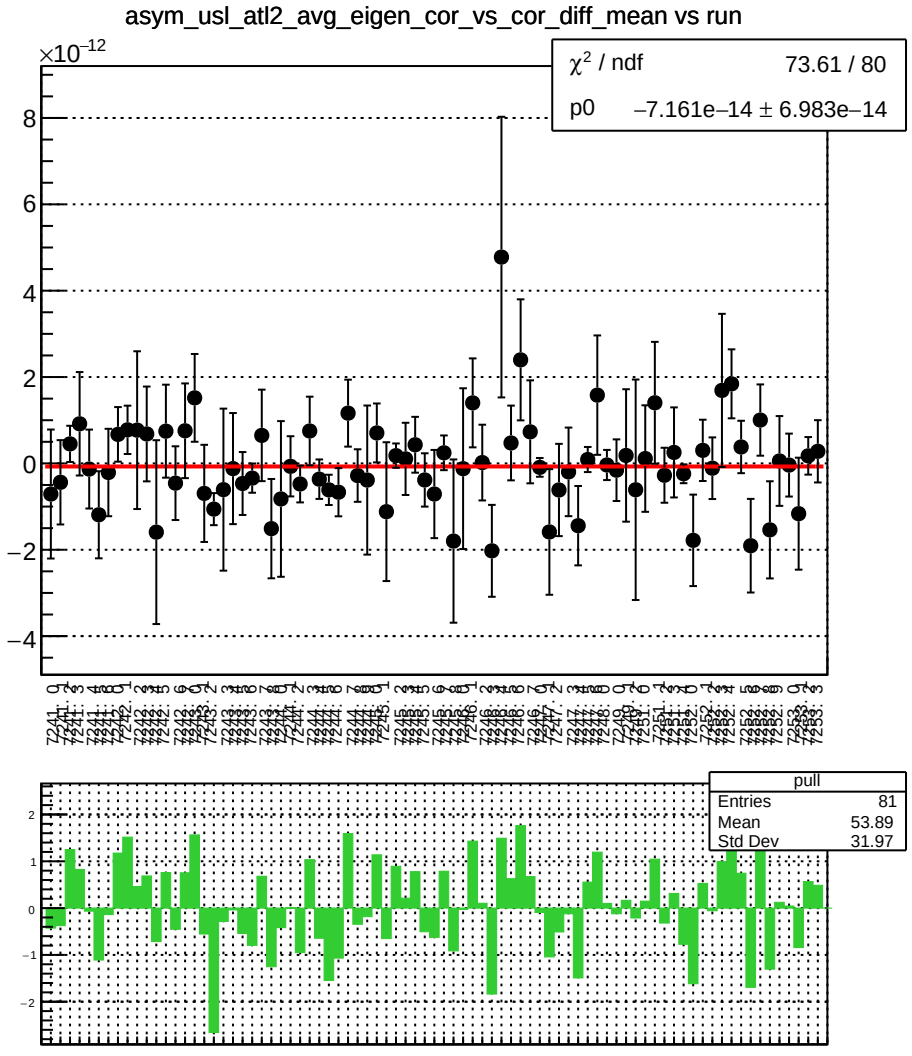

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.3 / 80
p0 0.09429 ± 0.4065
pull
Entries 81
Mean −320.2
Std Dev 0

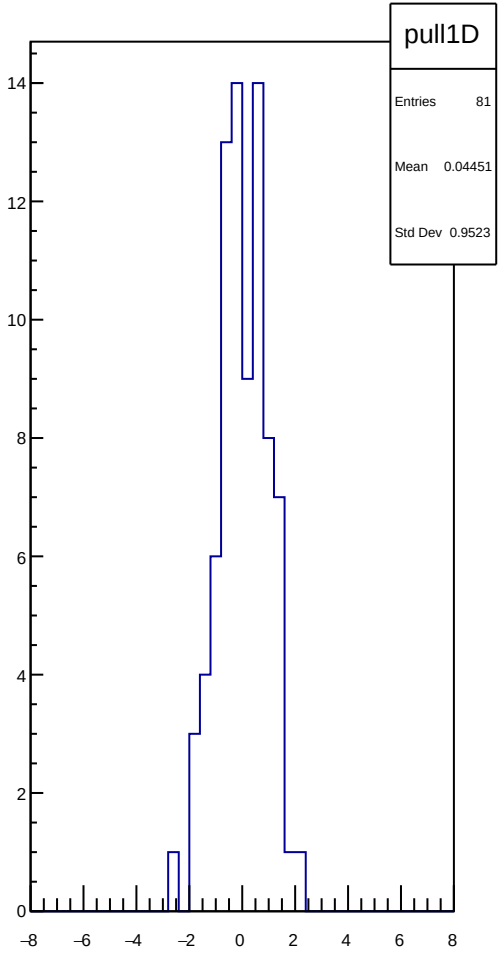

pull1D
Entries 81
Mean −0.01292
Std Dev 1.056

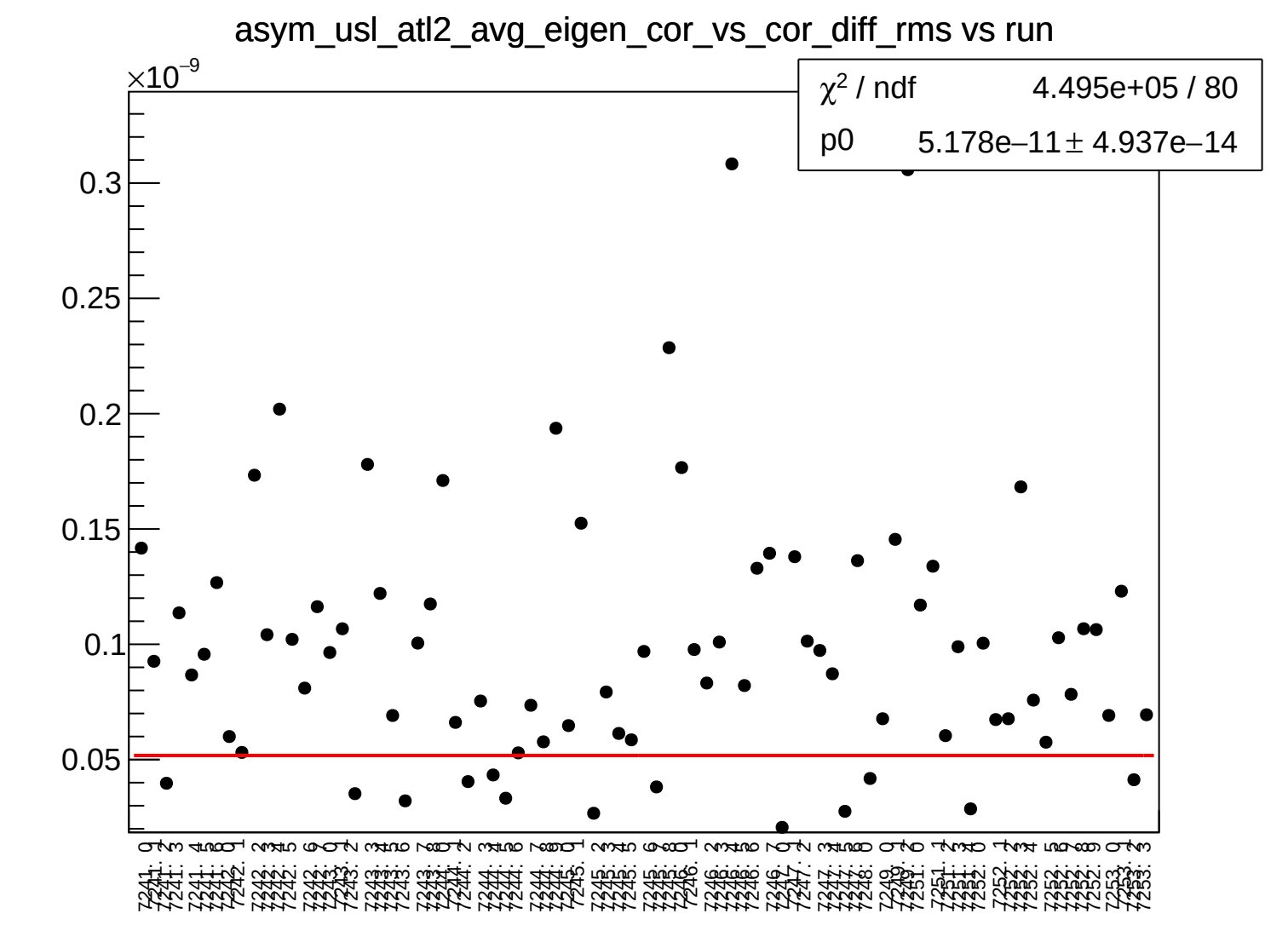

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.762e+04 / 80
p0 355.7 ± 0.2874
480
460
440
420
400
380
360
340
320
300
280

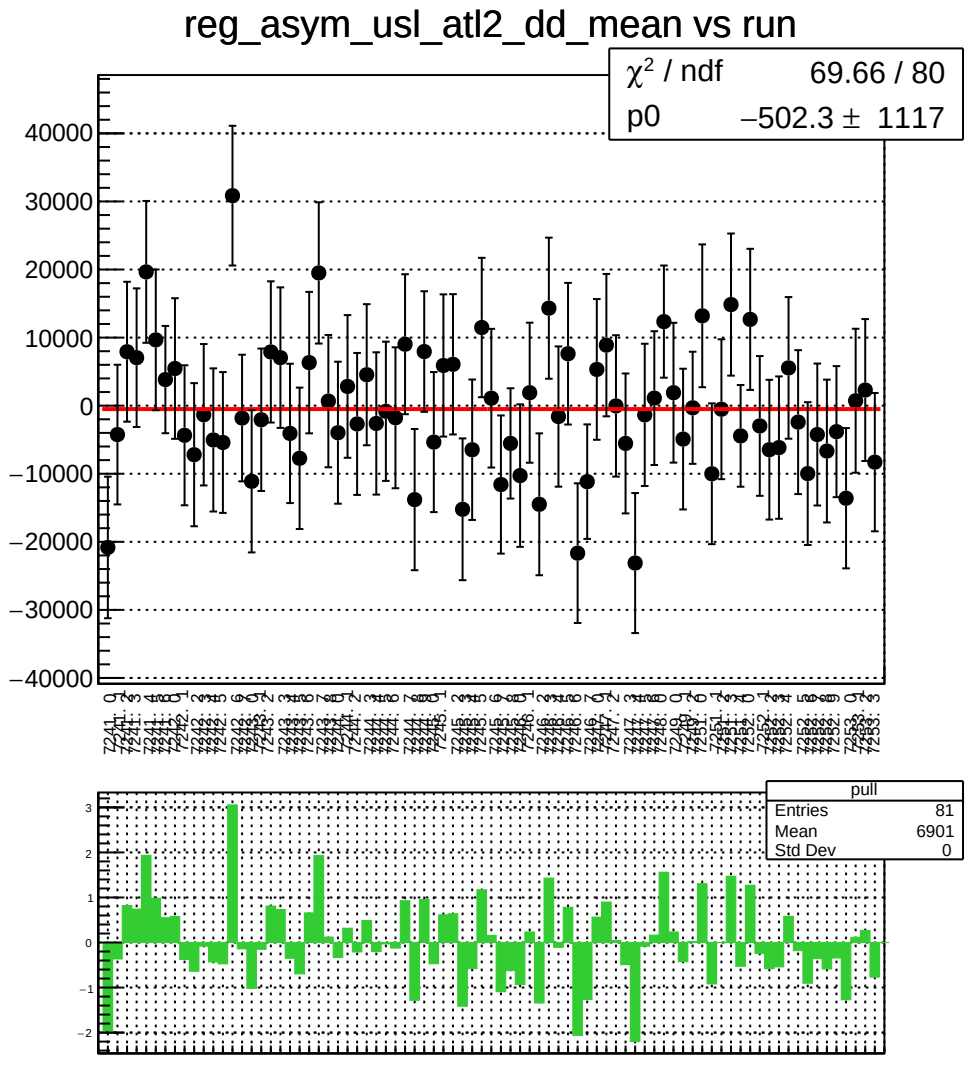

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.3 / 80
p0 0.09429 ± 0.4065
pull
Entries 81
Mean −320.2
Std Dev 0
pull1D
Entries 81
Mean −0.01292
Std Dev 1.056

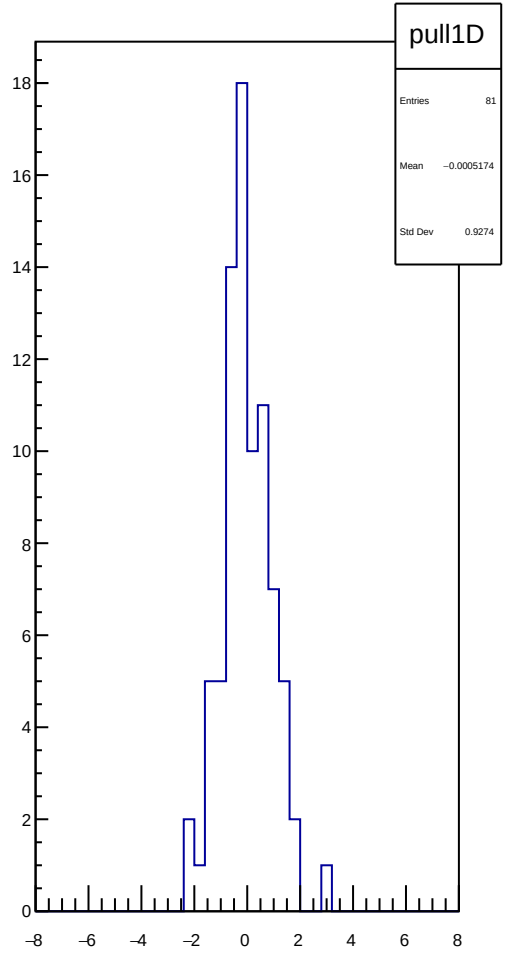

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.762e+04 / 80
p0 355.7 ± 0.2874
480
460
440
420
400
380
360
340
320
300
280

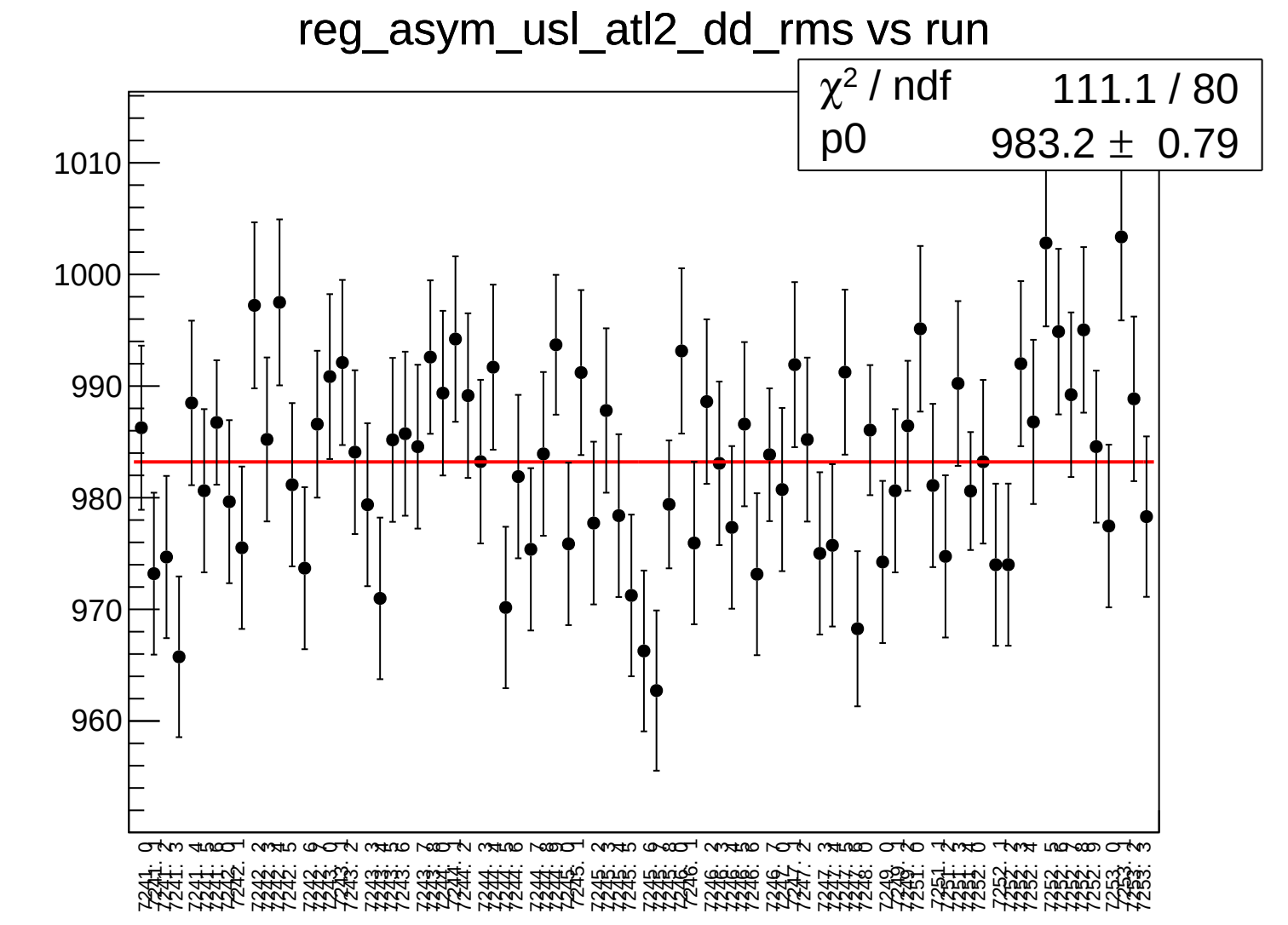

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.61 / 80
p0 −7.161e−14 ± 6.983e−14
pull
Entries 81
Mean 53.89
Std Dev 31.97

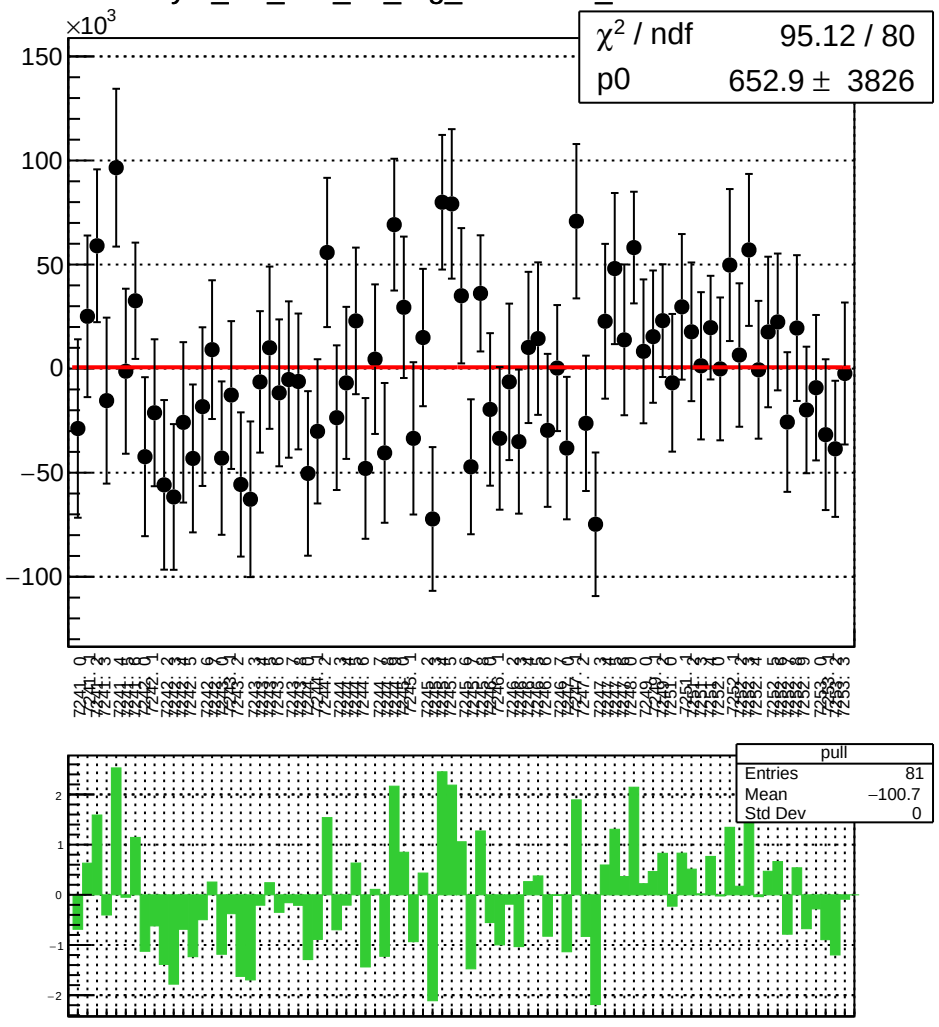

pull1D
Entries 81
Mean 0.04451
Std Dev 0.9523

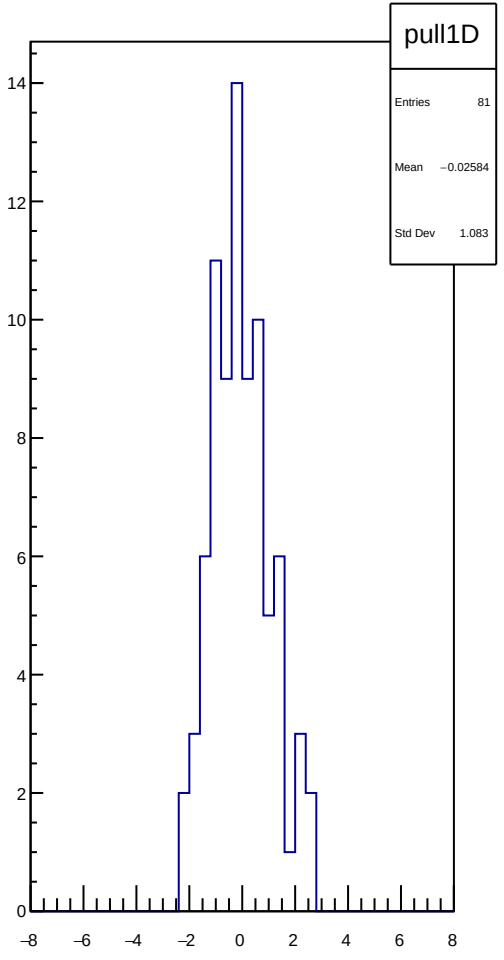

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.495e+05 / 80
p0 5.178e−11 ± 4.937e−14
0.3
0.25
0.2
0.15
0.1
0.05

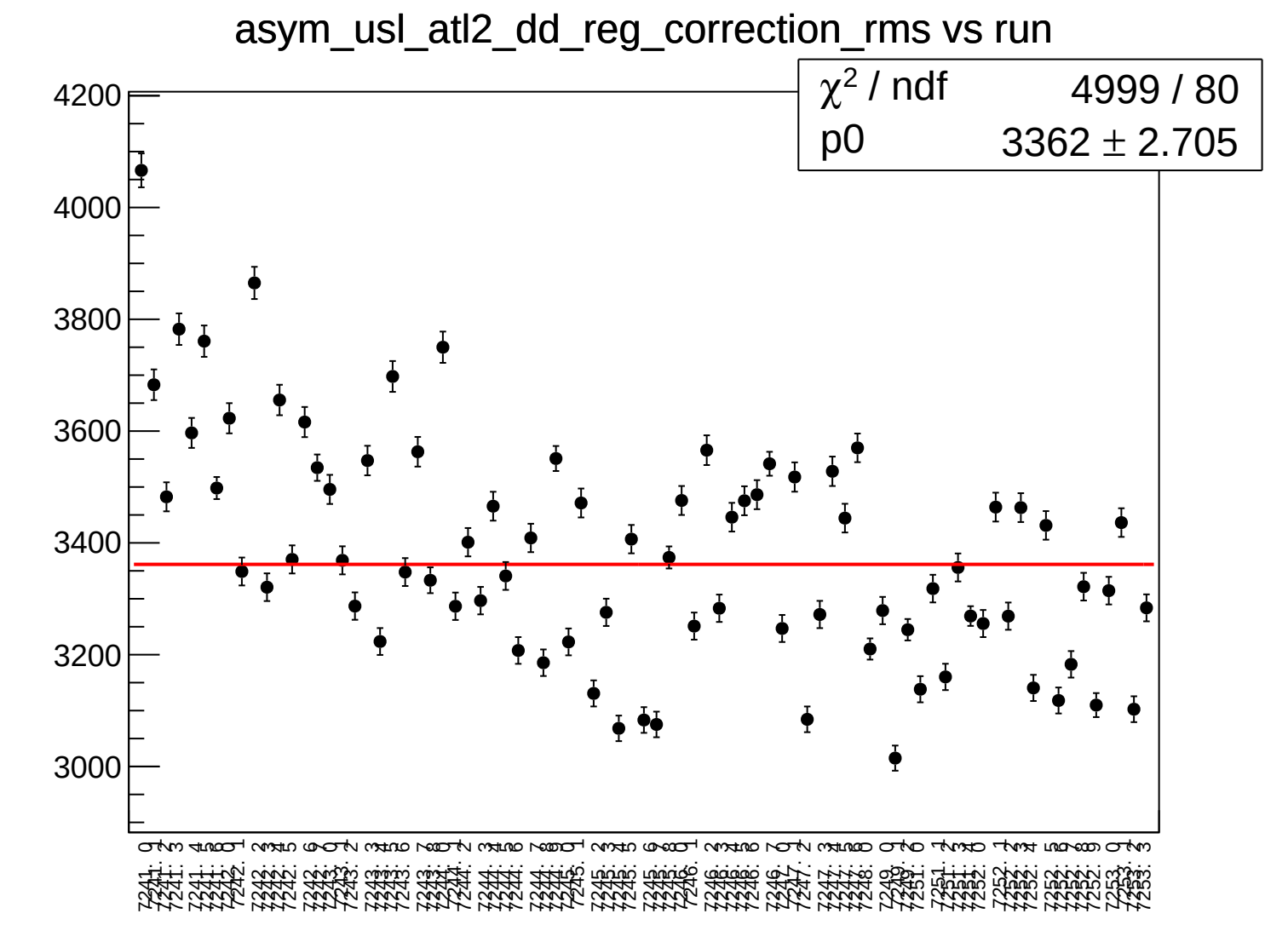

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 69.66 / 80
p0 −502.3 ± 1117
pull
Entries 81
Mean 6901
Std Dev 0

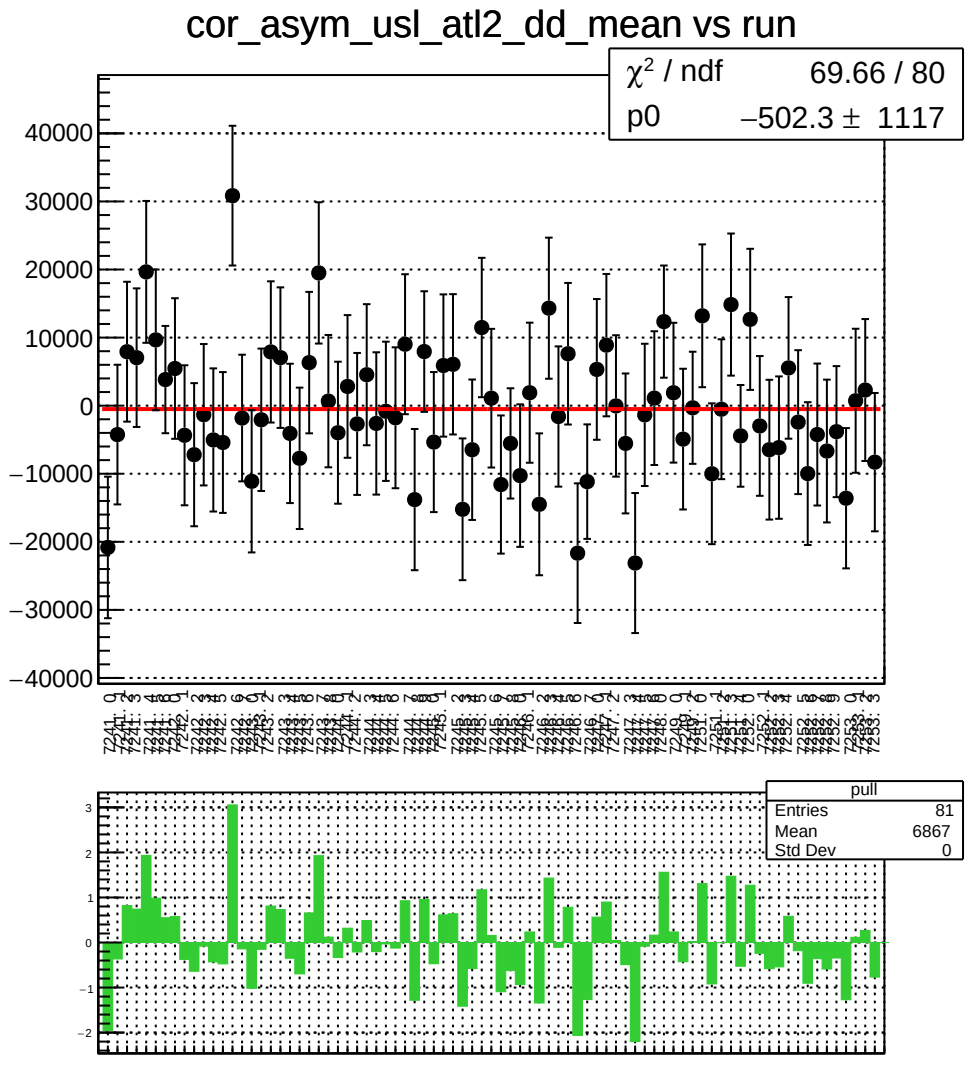

pull1D
Entries 81
Mean −0.0005174
Std Dev 0.9274

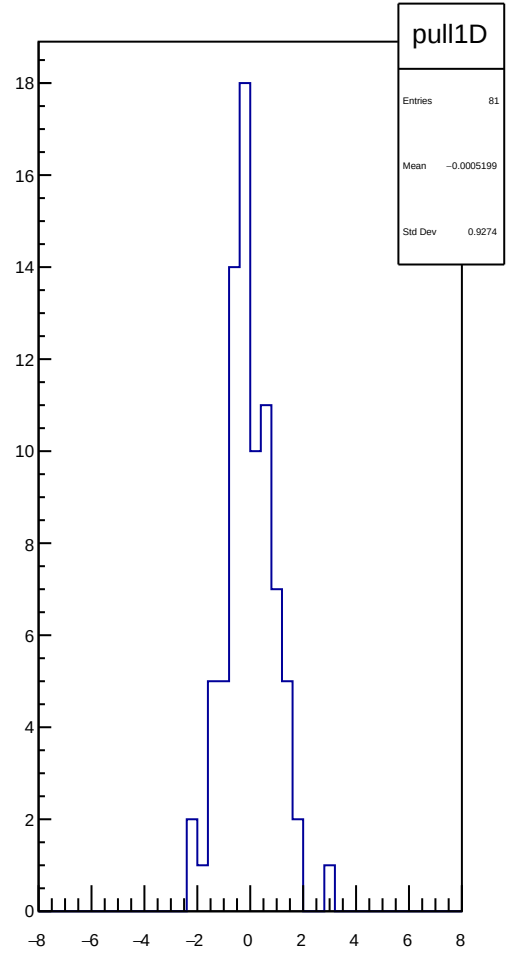

reg_asym_usl_atl2_dd_rms vs run
χ² / ndf 111.1 / 80
p0 983.2 ± 0.79
1010
1000
990
980
970
960

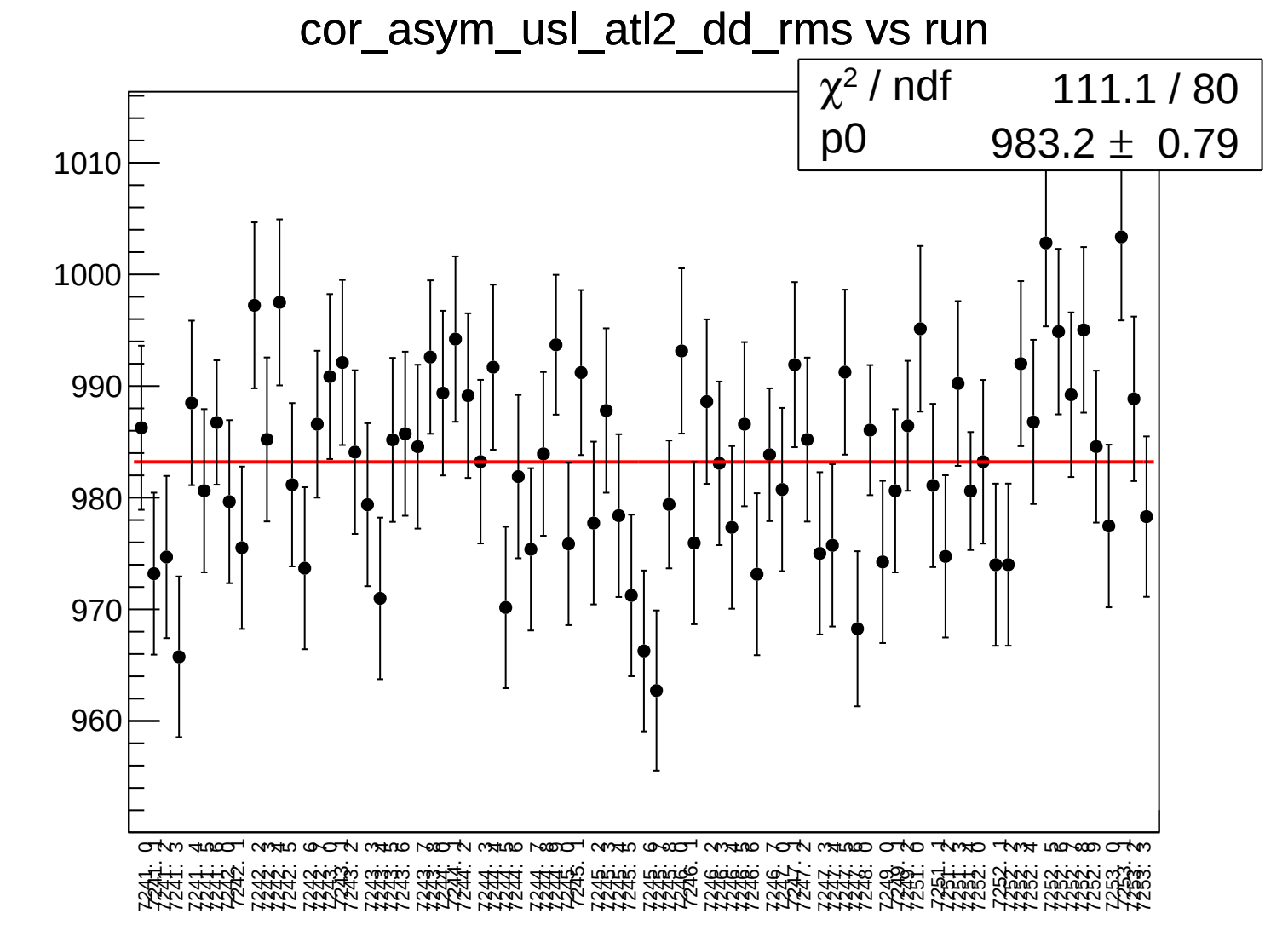

asym_usl_atl2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 95.12 / 80
p0 652.9 ± 3826
150
100
50
0
−50
−100
pull
Entries 81
Mean −100.7
Std Dev 0
2
1
0
−1
−2

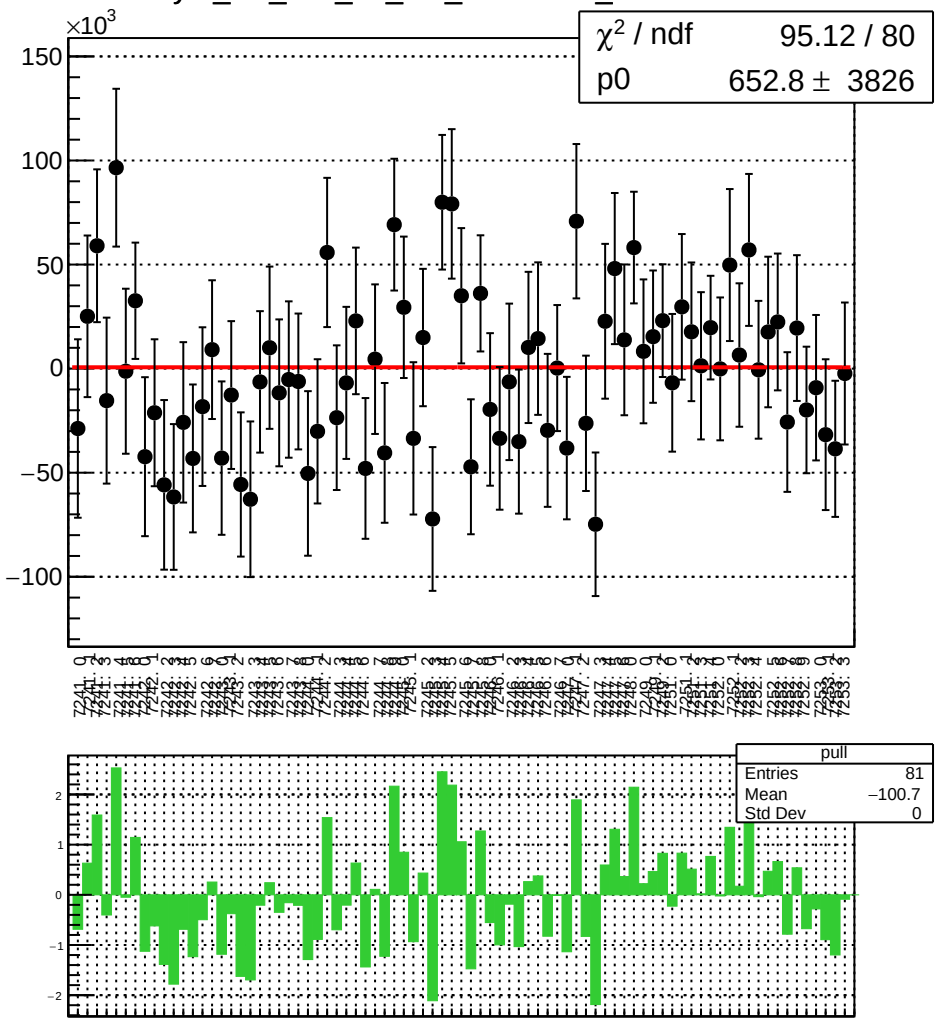

pull1D
Entries 81
Mean −0.02584
Std Dev 1.083
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

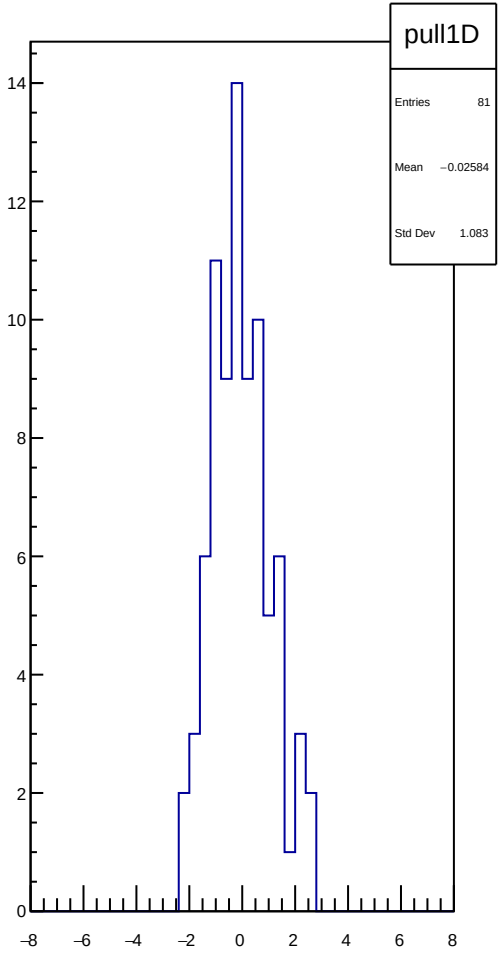

asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 4999 / 80
p0 3362 ± 2.705
4200
4000
3800
3600
3400
3200
3000

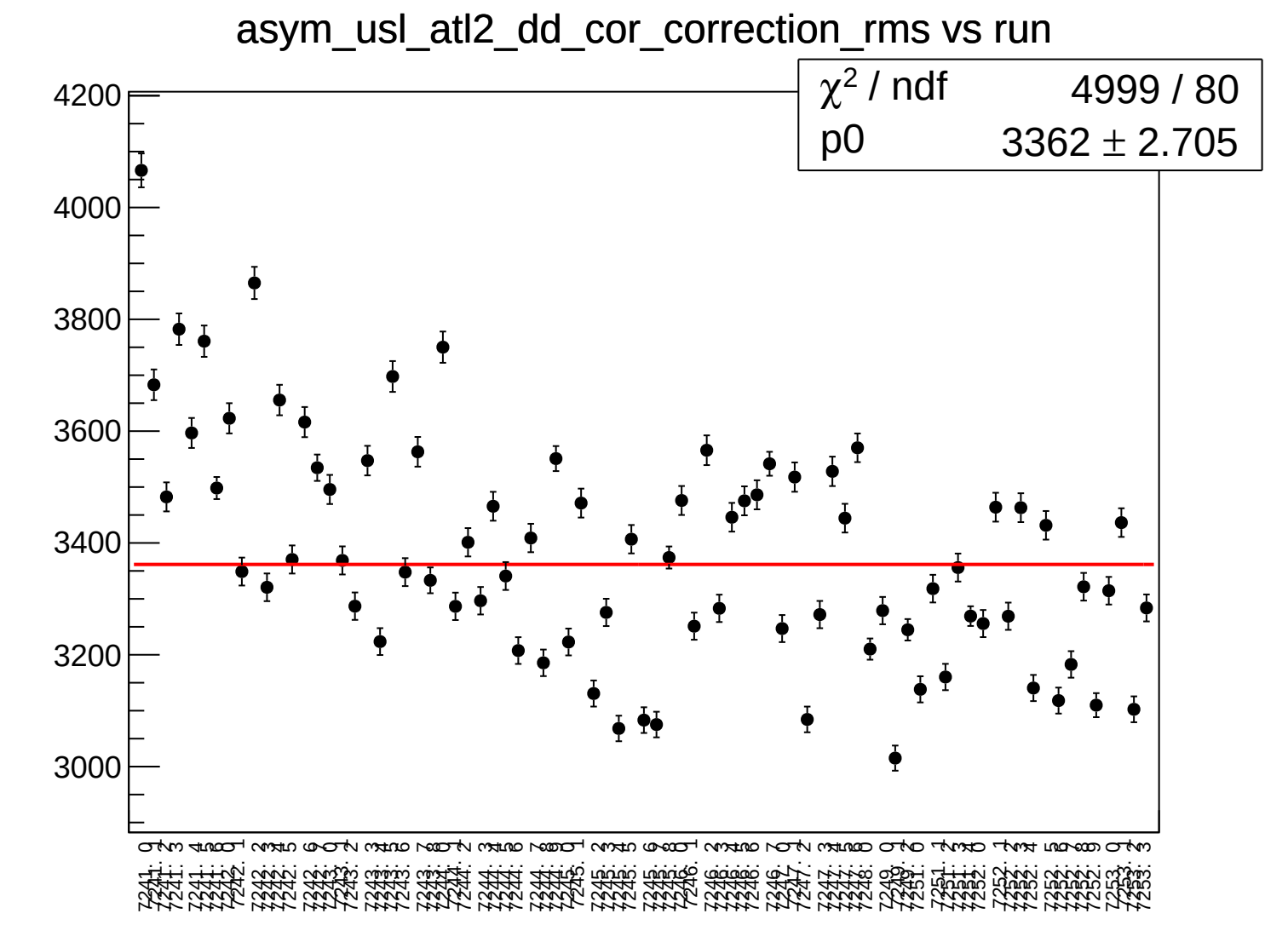

cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 69.66 / 80
p0 −502.3 ± 1117
pull
Entries 81
Mean 6867
Std Dev 0

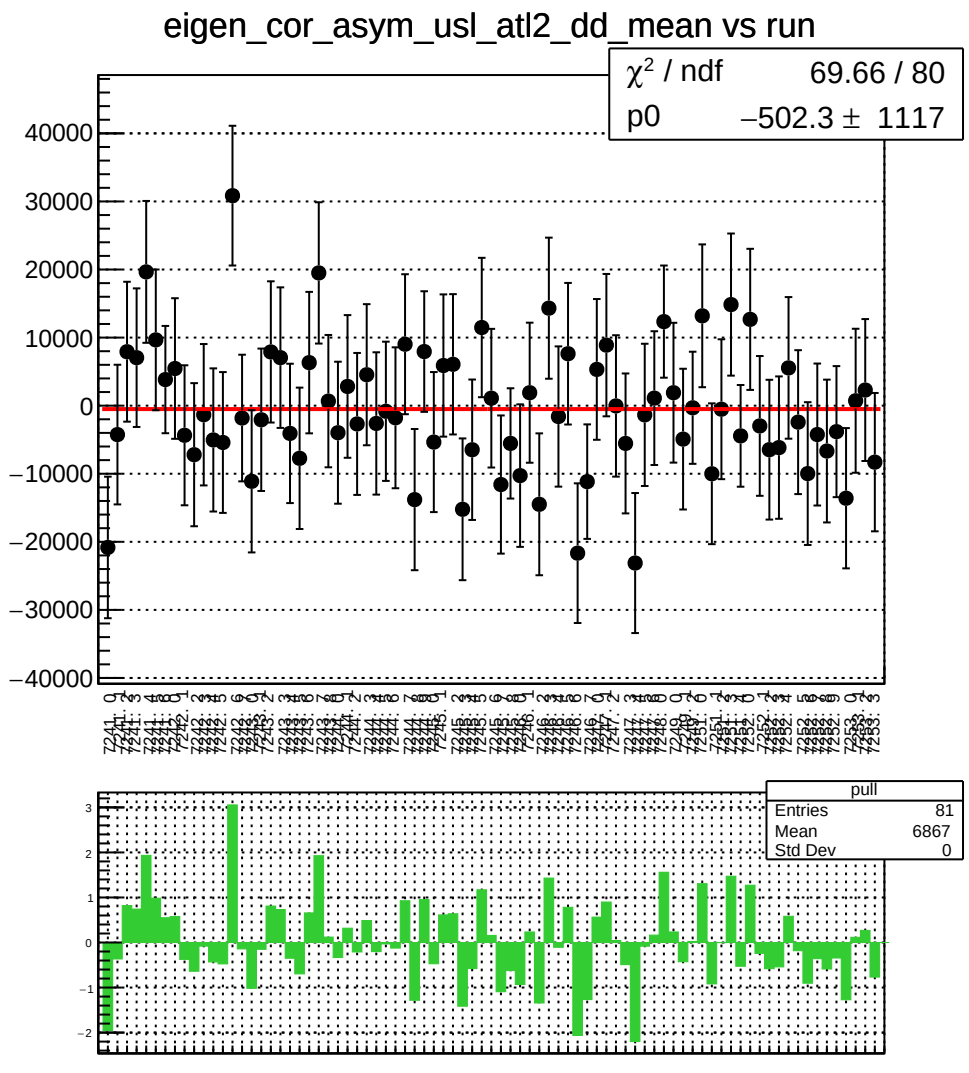

pull1D
Entries 81
Mean −0.0005199
Std Dev 0.9274

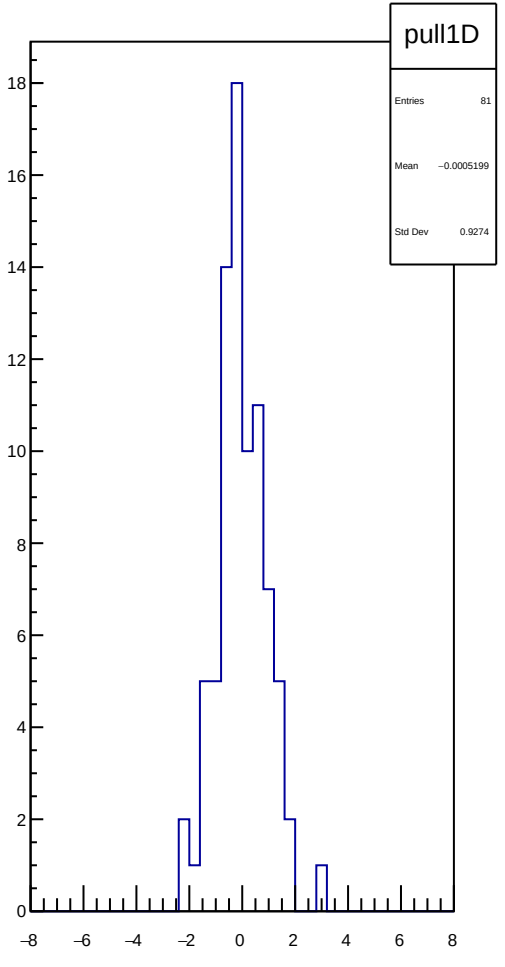

cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 111.1 / 80
p0 983.2 ± 0.79
1010
1000
990
980
970
960

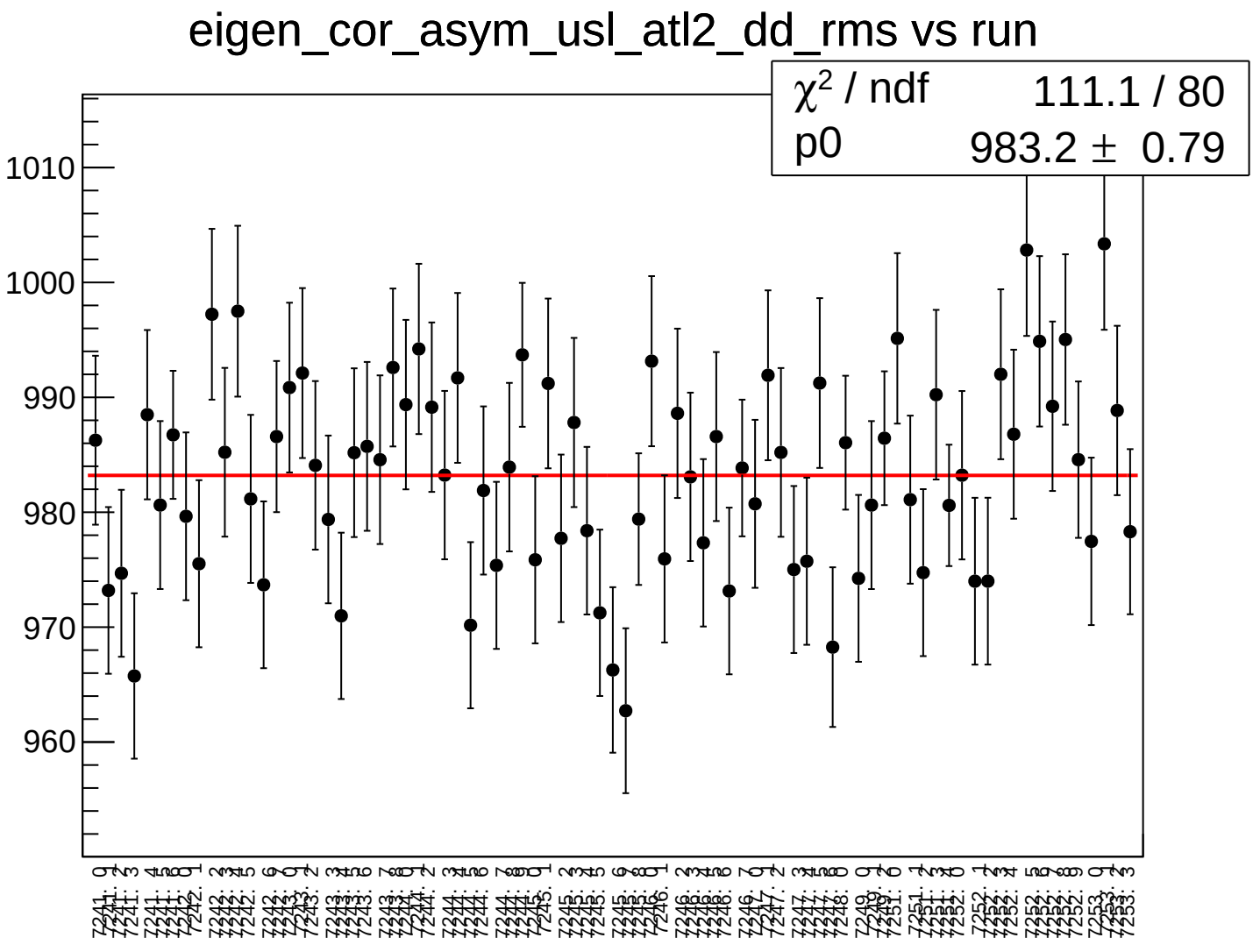

asym_usl_atl2_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 95.12 / 80
p0 652.8 ± 3826
150
100
50
0
−50
−100
pull
Entries 81
Mean −100.7
Std Dev 0
2
1
0
−1
−2

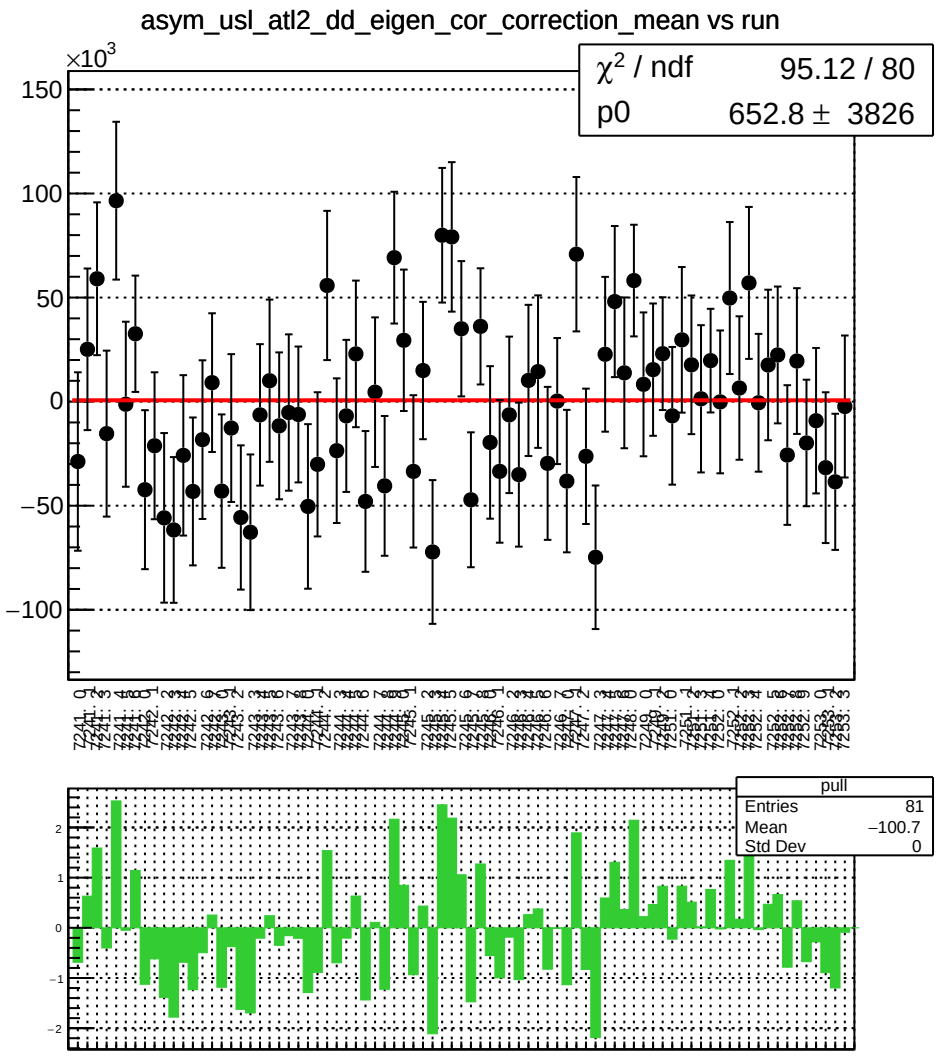

pull1D
Entries 81
Mean −0.02584
Std Dev 1.083
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

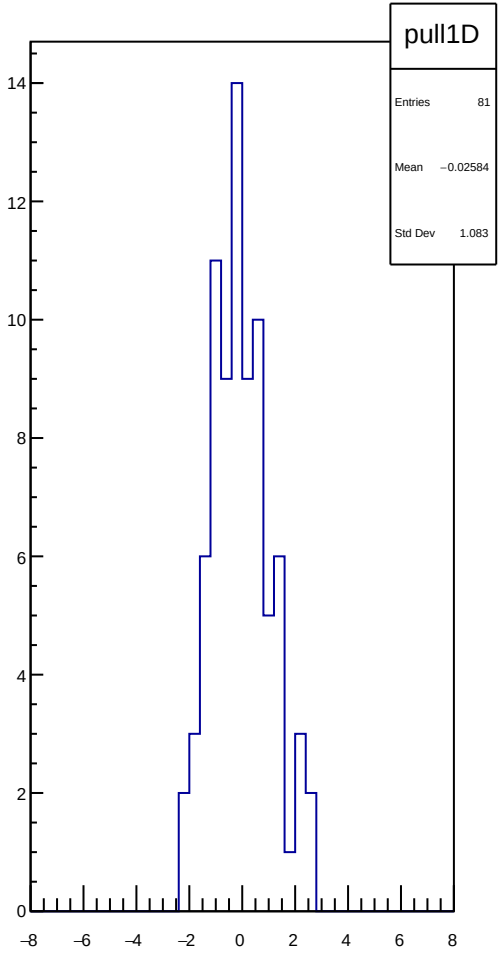

asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 4999 / 80
p0 3362 ± 2.705
4200
4000
3800
3600
3400
3200
3000

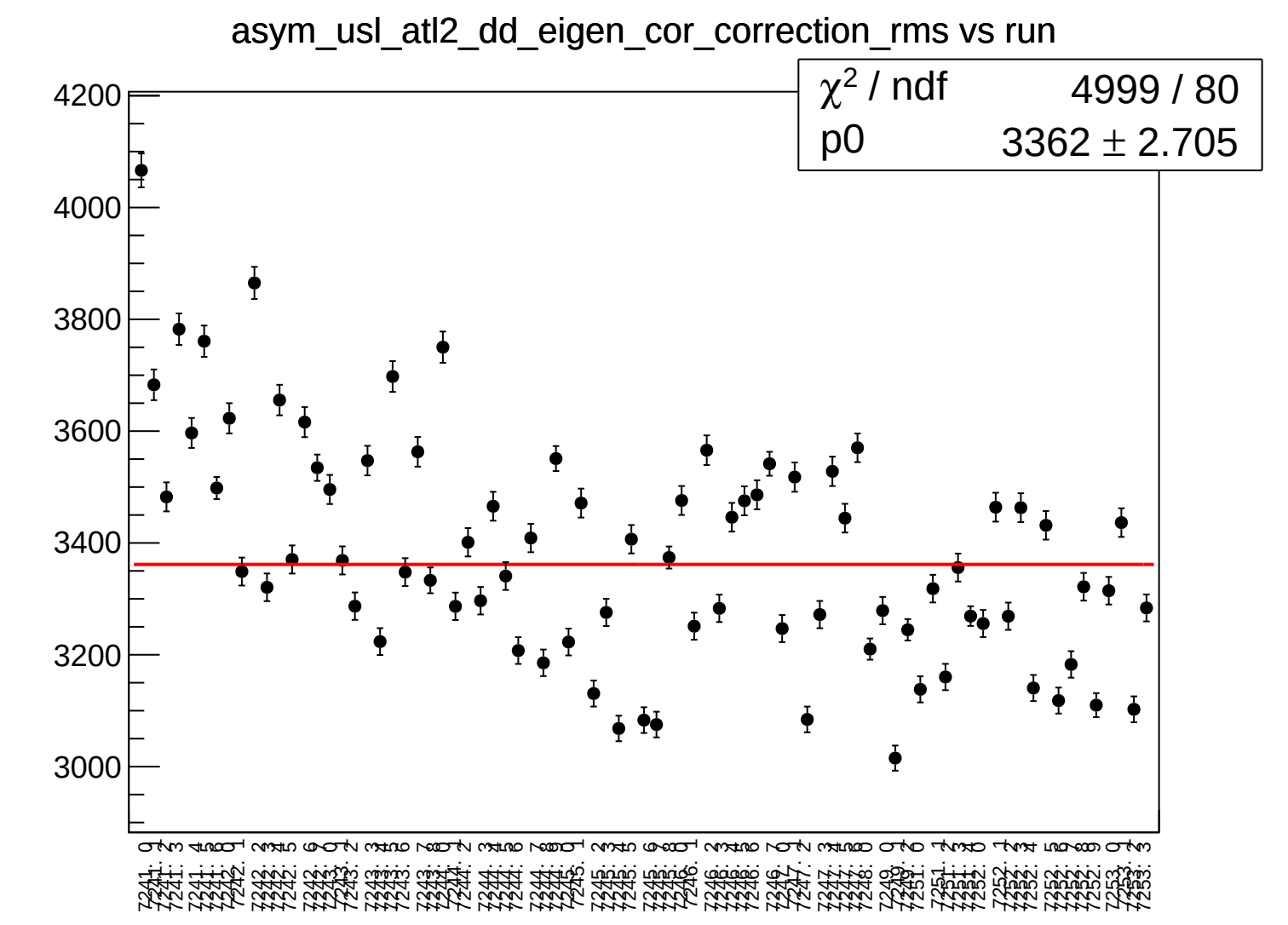

eigen_cor_asym_usl_atl2_dd_mean vs run
χ^2 / ndf 69.66 / 80
p0 −502.3 ± 1117
pull
Entries 81
Mean 6867
Std Dev 0

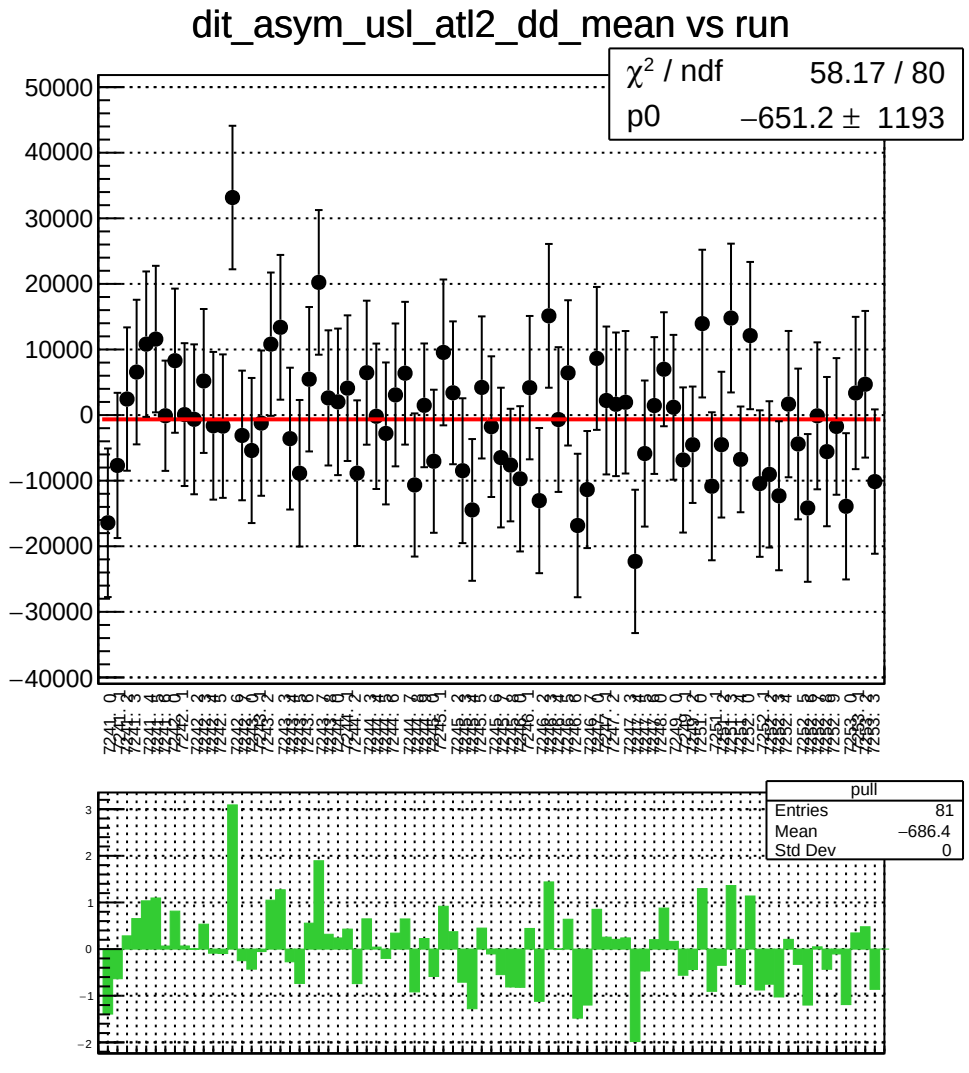

pull1D
Entries 81
Mean −0.0005199
Std Dev 0.9274

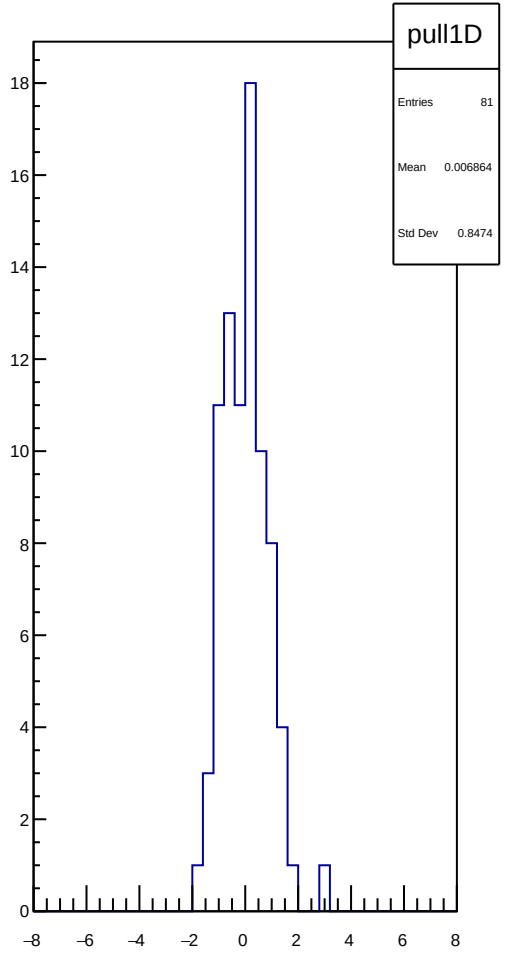

eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 111.1 / 80
p0 983.2 ± 0.79
1010
1000
990
980
970
960

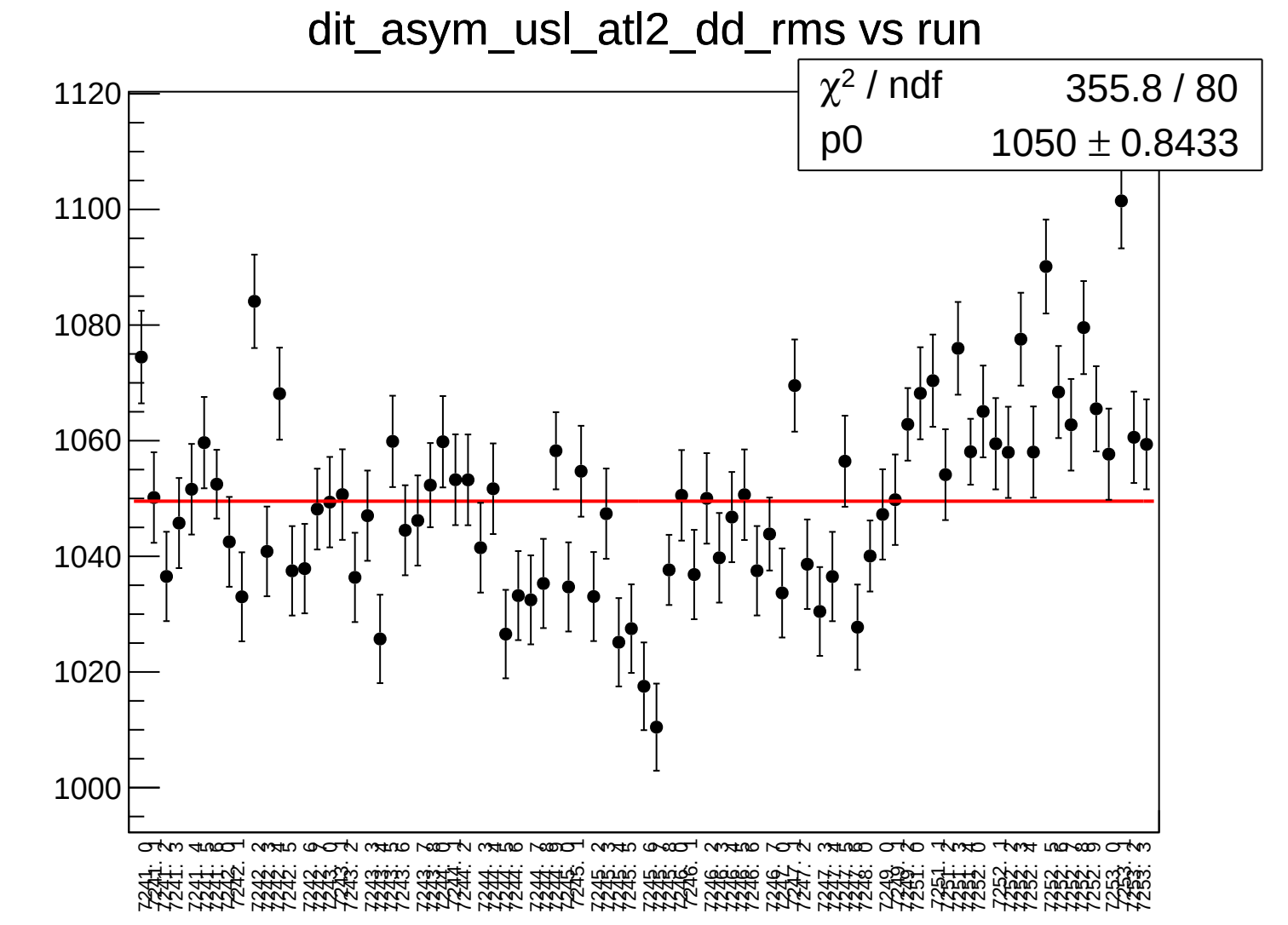

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 95.12 / 80
p0 652.8 ± 3826
150
100
50
0
−50
−100
pull
Entries 81
Mean −100.7
Std Dev 0
2
1
0
−1
−2

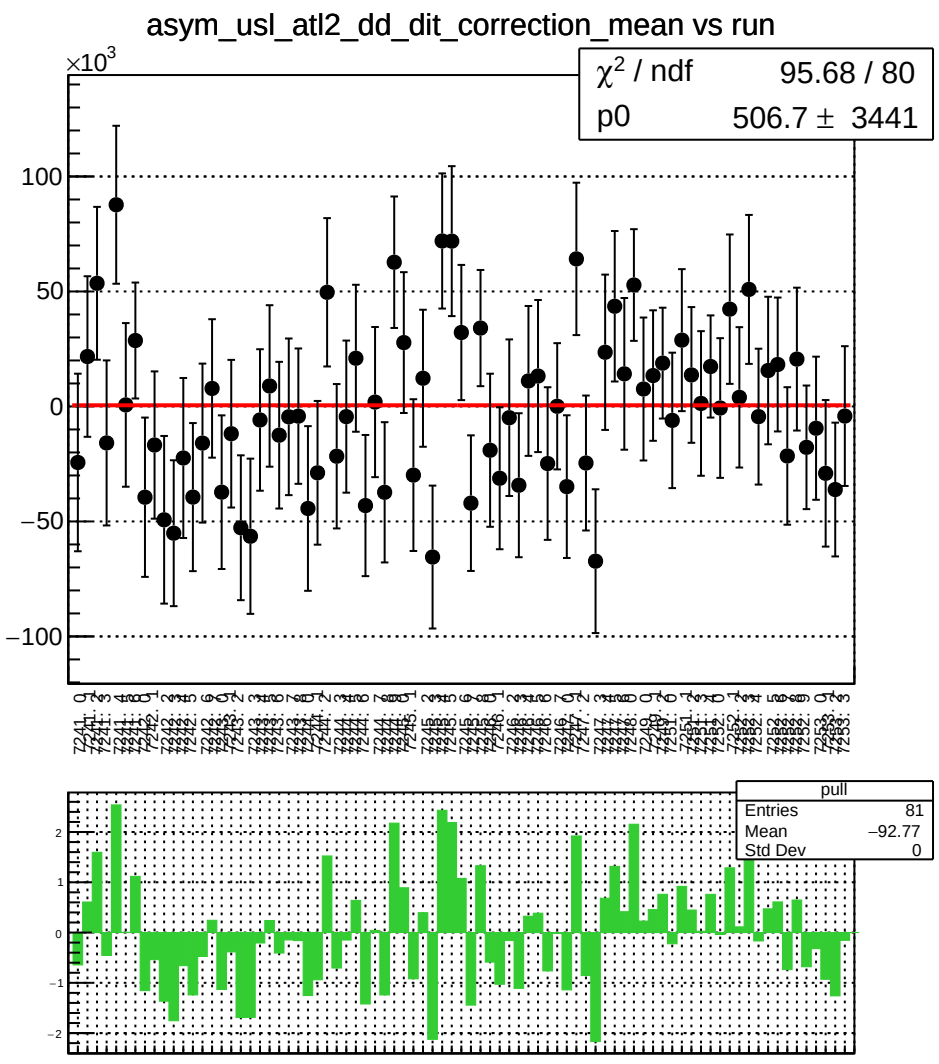

pull1D
Entries 81
Mean −0.02584
Std Dev 1.083
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

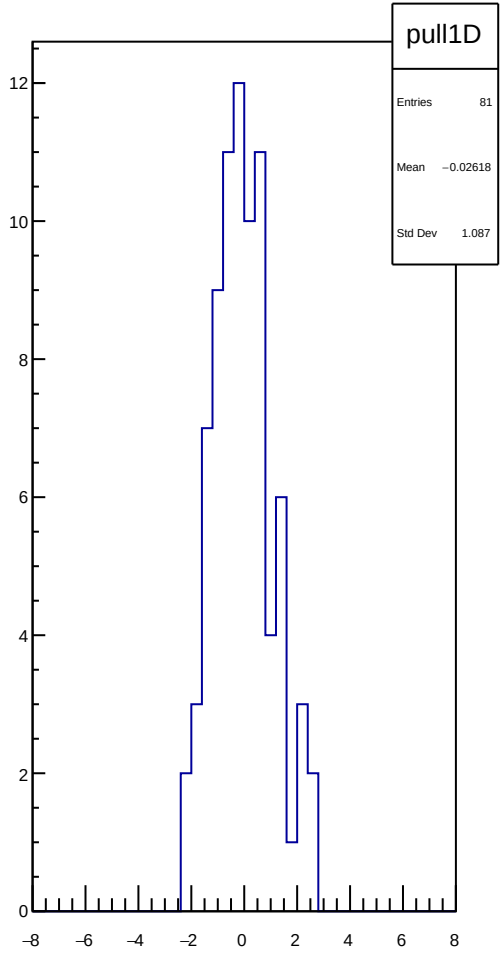

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 4999 / 80
p0 3362 ± 2.705
4200
4000
3800
3600
3400
3200
3000

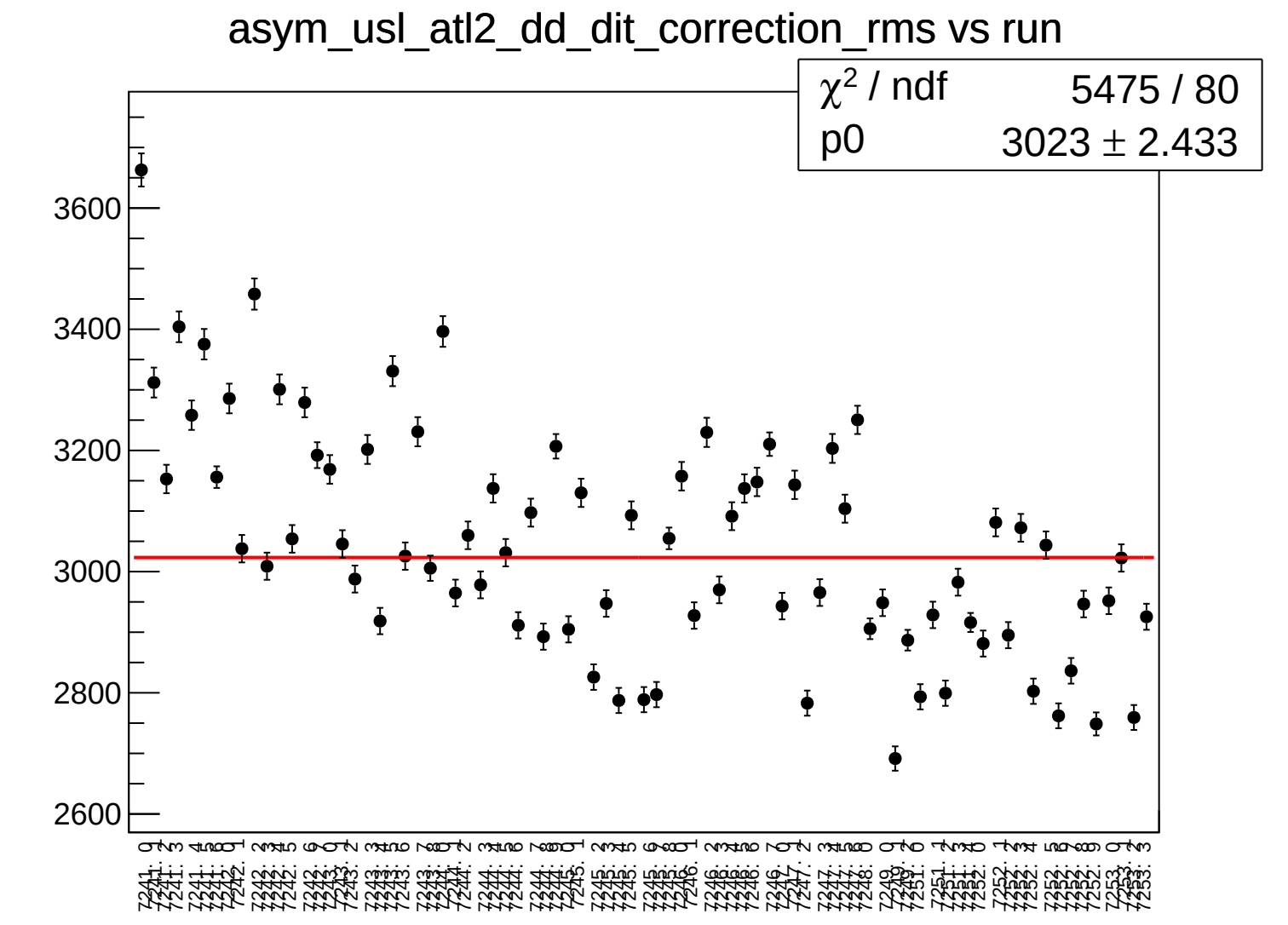

dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 58.17 / 80
p0 −651.2 ± 1193
pull
Entries 81
Mean −686.4
Std Dev 0

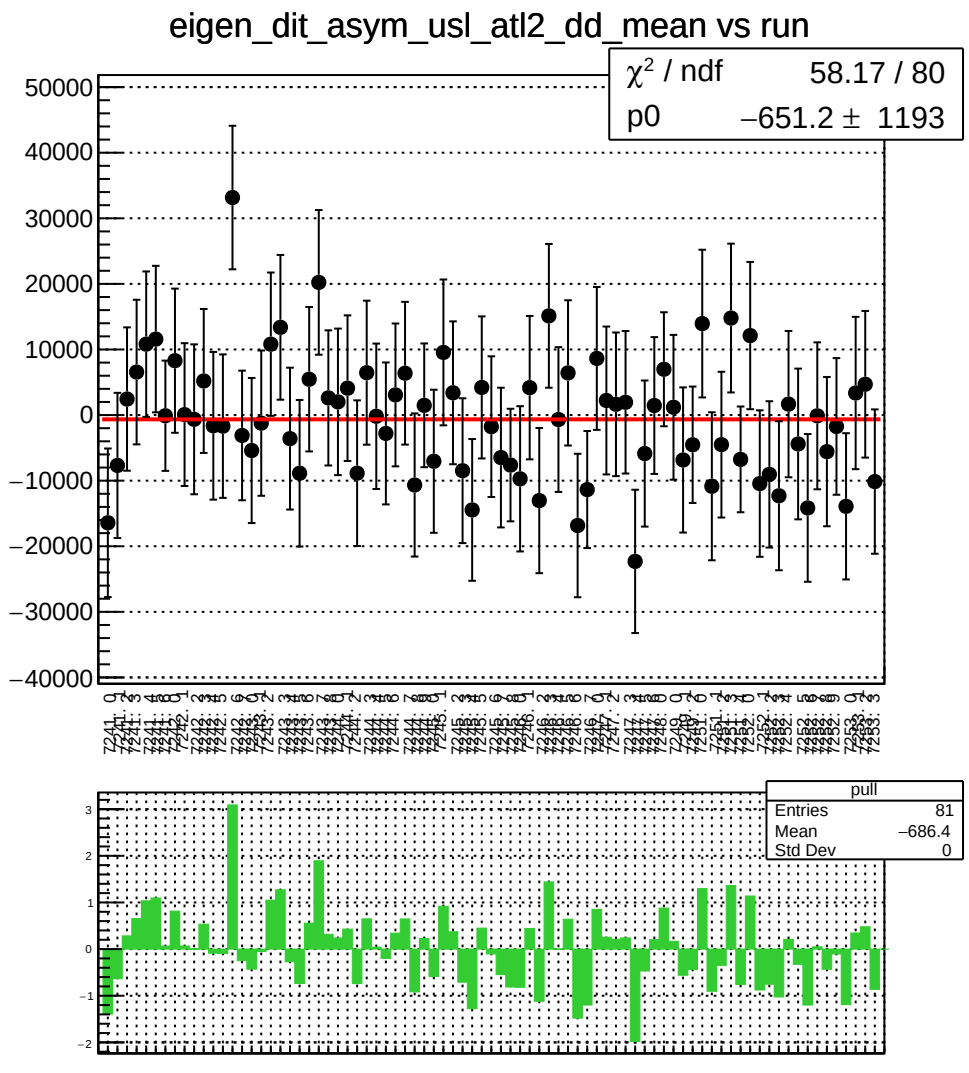

pull1D
Entries 81
Mean 0.006864
Std Dev 0.8474

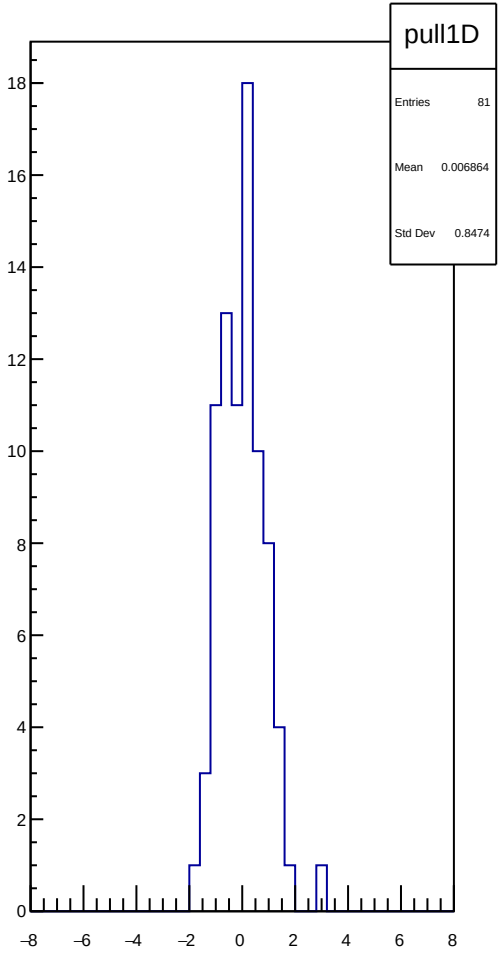

dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 355.8 / 80
p0 1050 ± 0.8433
1120
1100
1080
1060
1040
1020
1000

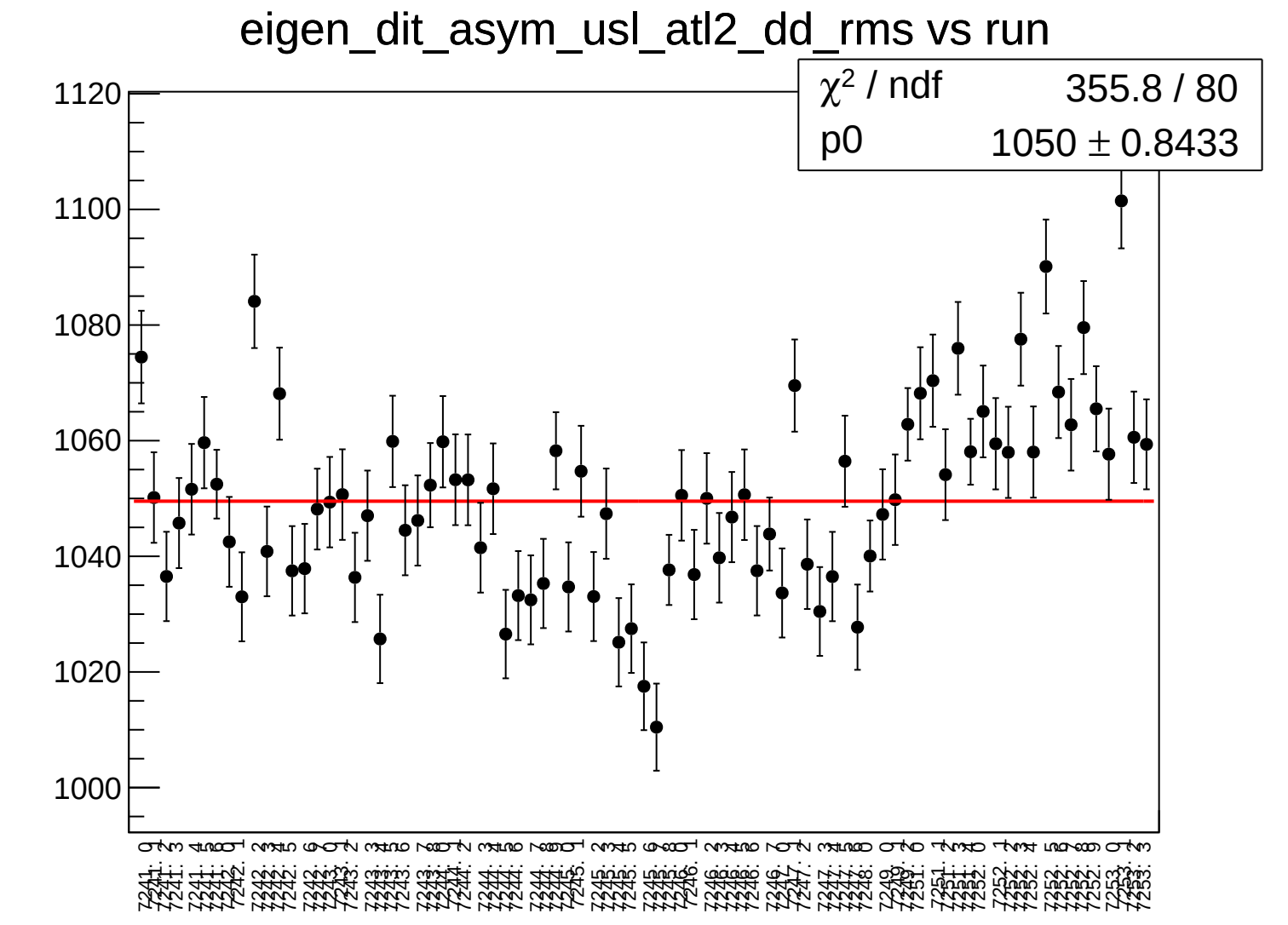

asym_usl_atl2_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 95.68 / 80
p0 506.7 ± 3441
100
50
0
−50
−100
pull
Entries 81
Mean −92.77
Std Dev 0
2
1
0
−1
−2

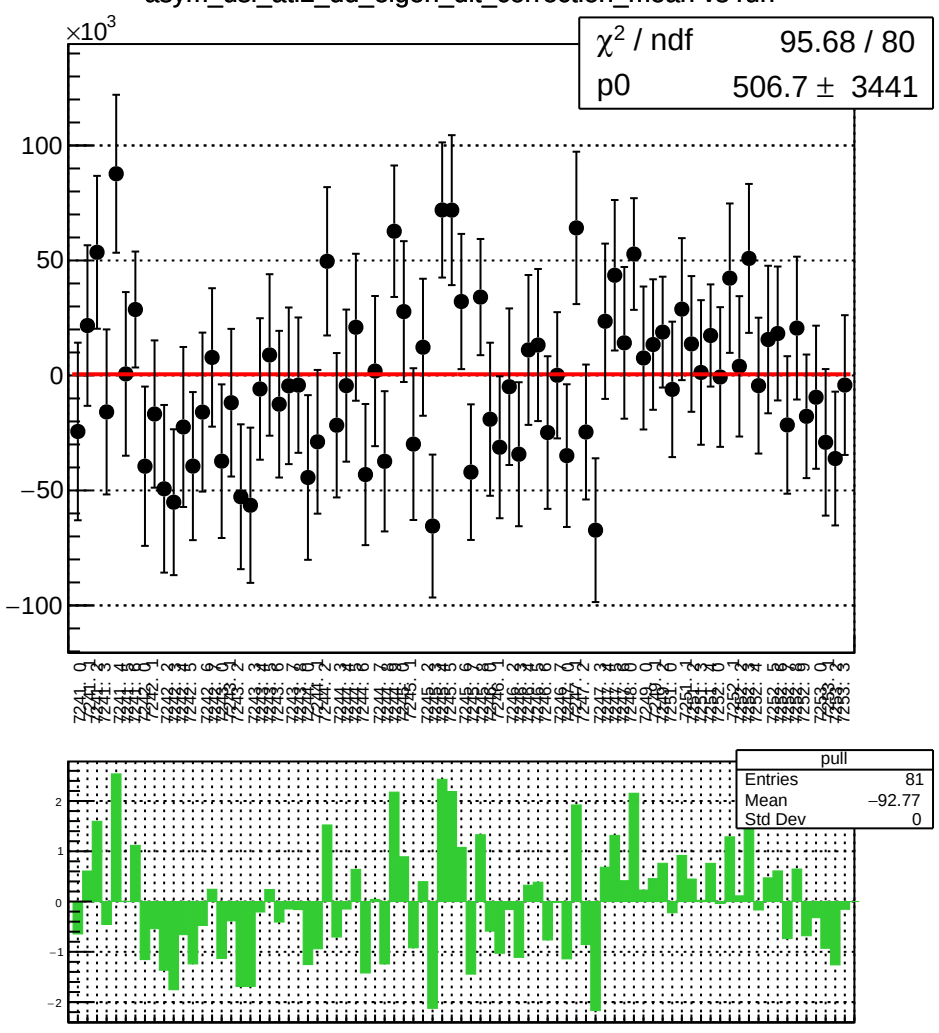

pull1D
Entries 81
Mean −0.02618
Std Dev 1.087
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

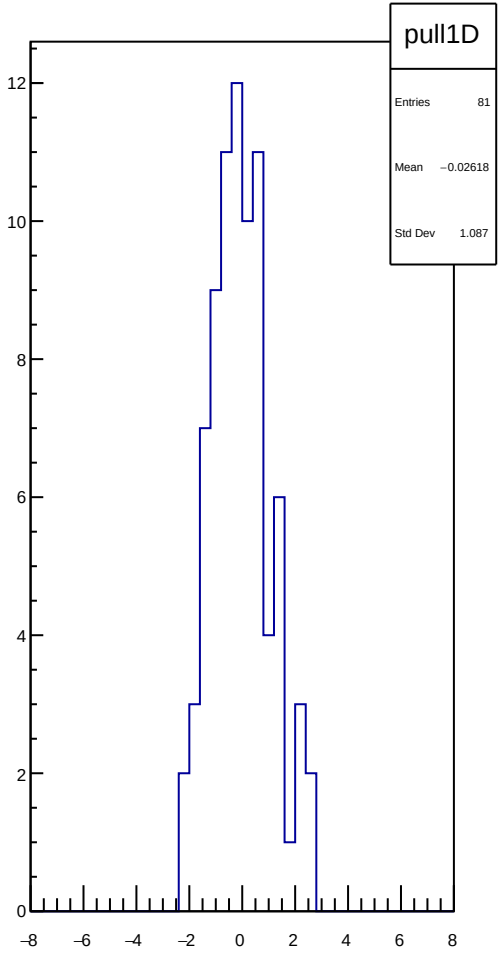

asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 5475 / 80
p0 3023 ± 2.433
3600
3400
3200
3000
2800
2600

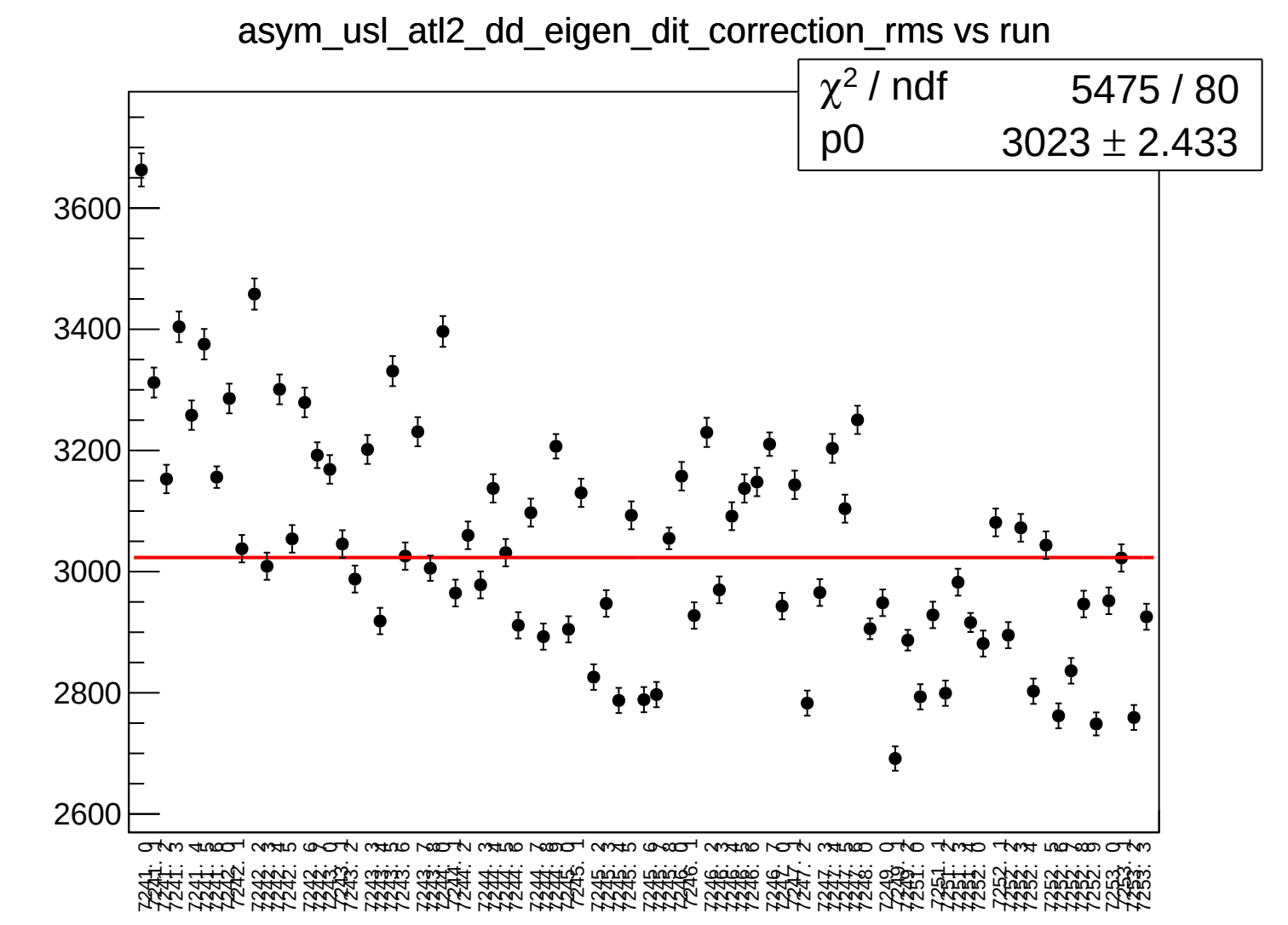

eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 58.17 / 80
p0 −651.2 ± 1193
pull
Entries 81
Mean −686.4
Std Dev 0

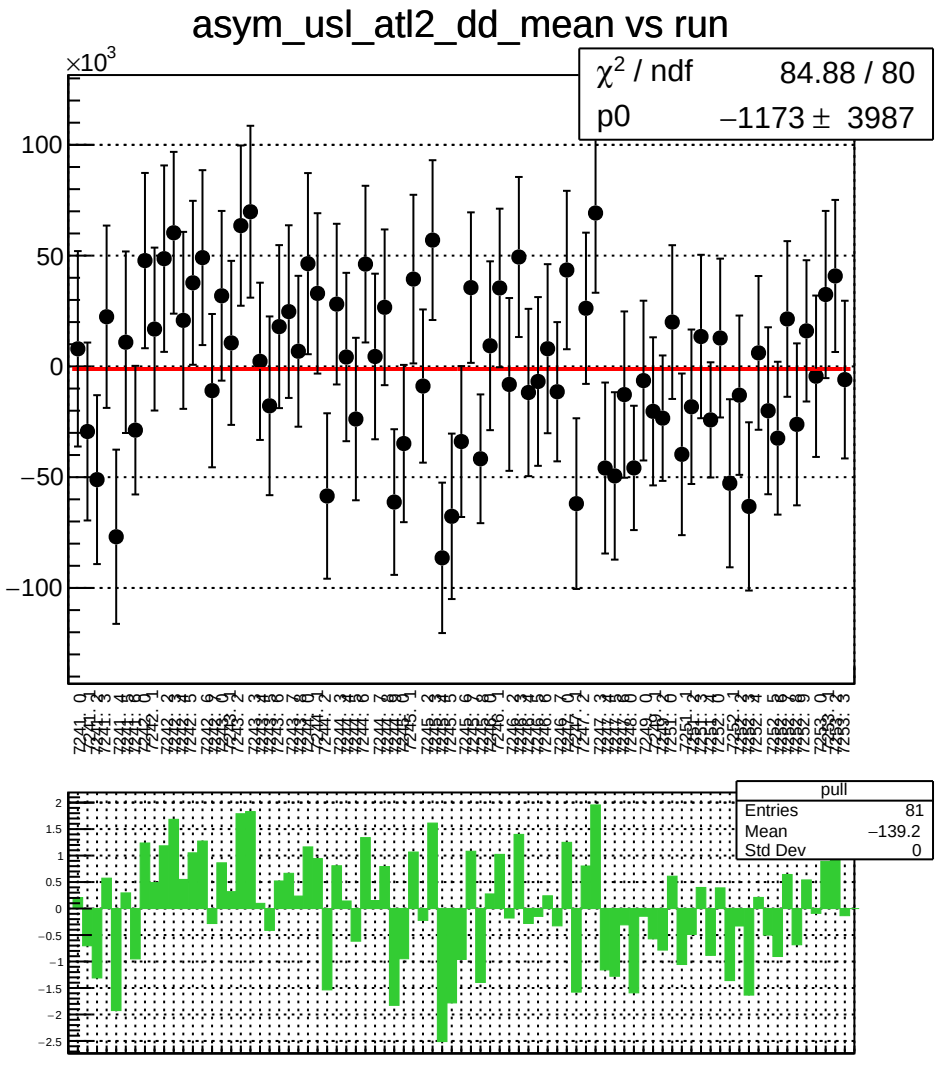

pull1D
Entries 81
Mean 0.006864
Std Dev 0.8474

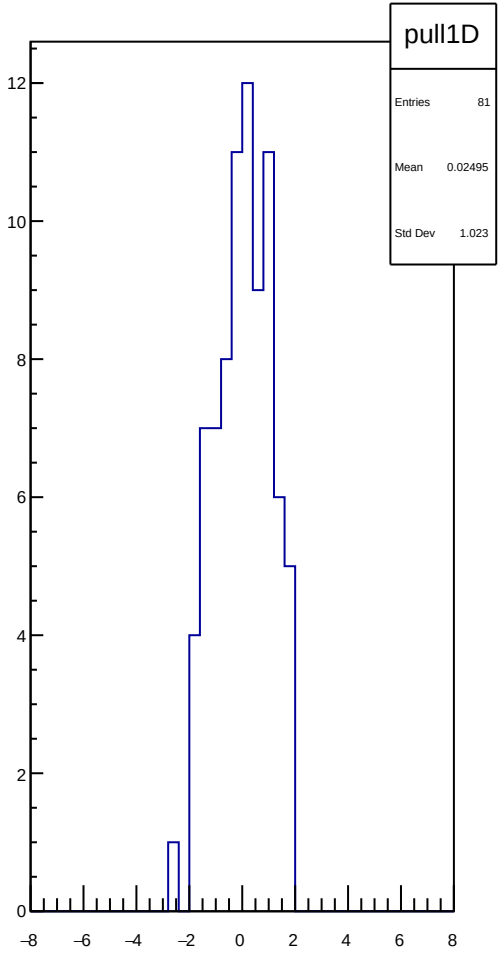

eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 355.8 / 80
p0 1050 ± 0.8433
1120
1100
1080
1060
1040
1020
1000

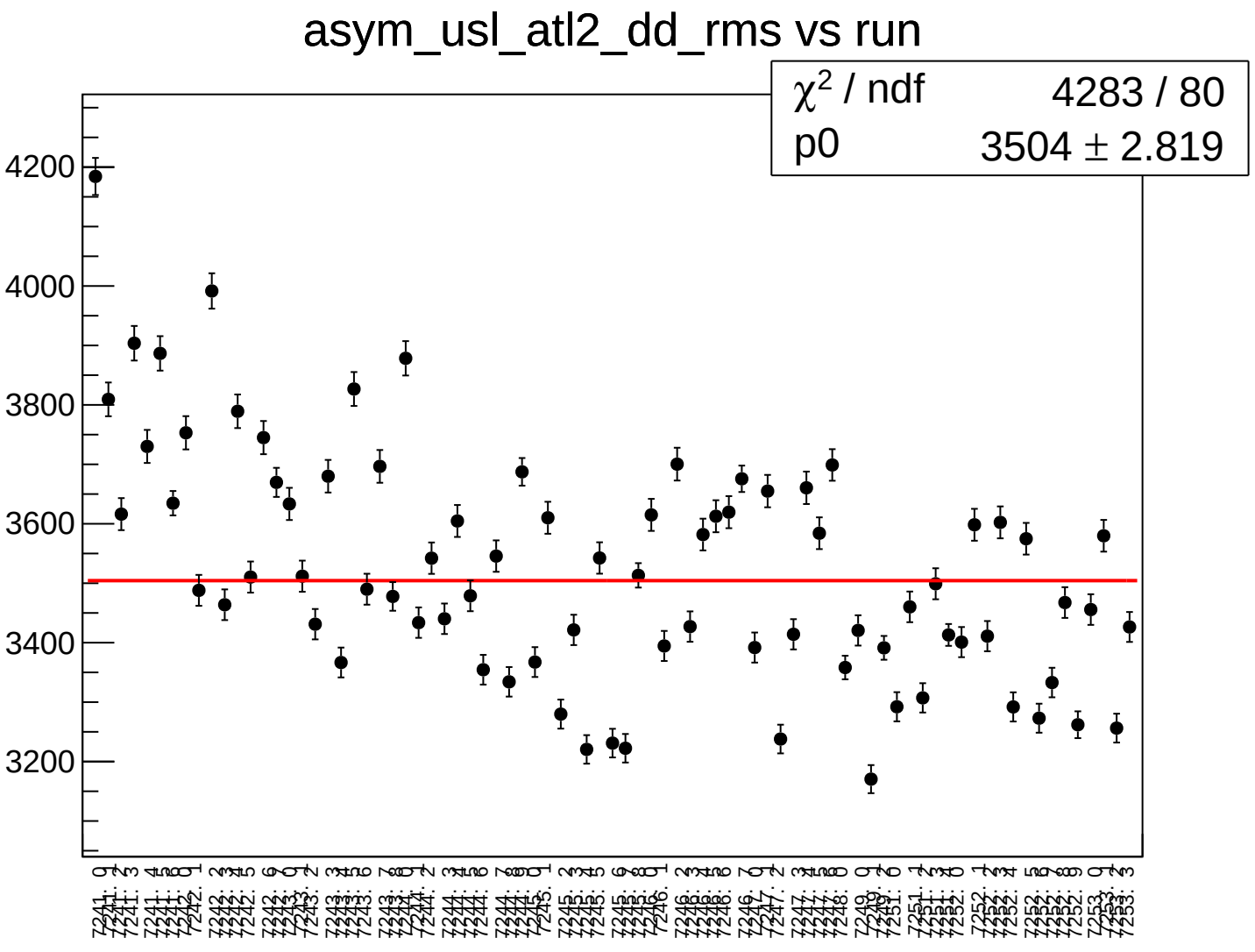

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 95.68 / 80
p0 506.7 ± 3441
100
50
0
−50
−100
pull
Entries 81
Mean −92.77
Std Dev 0
2
1
0
−1
−2

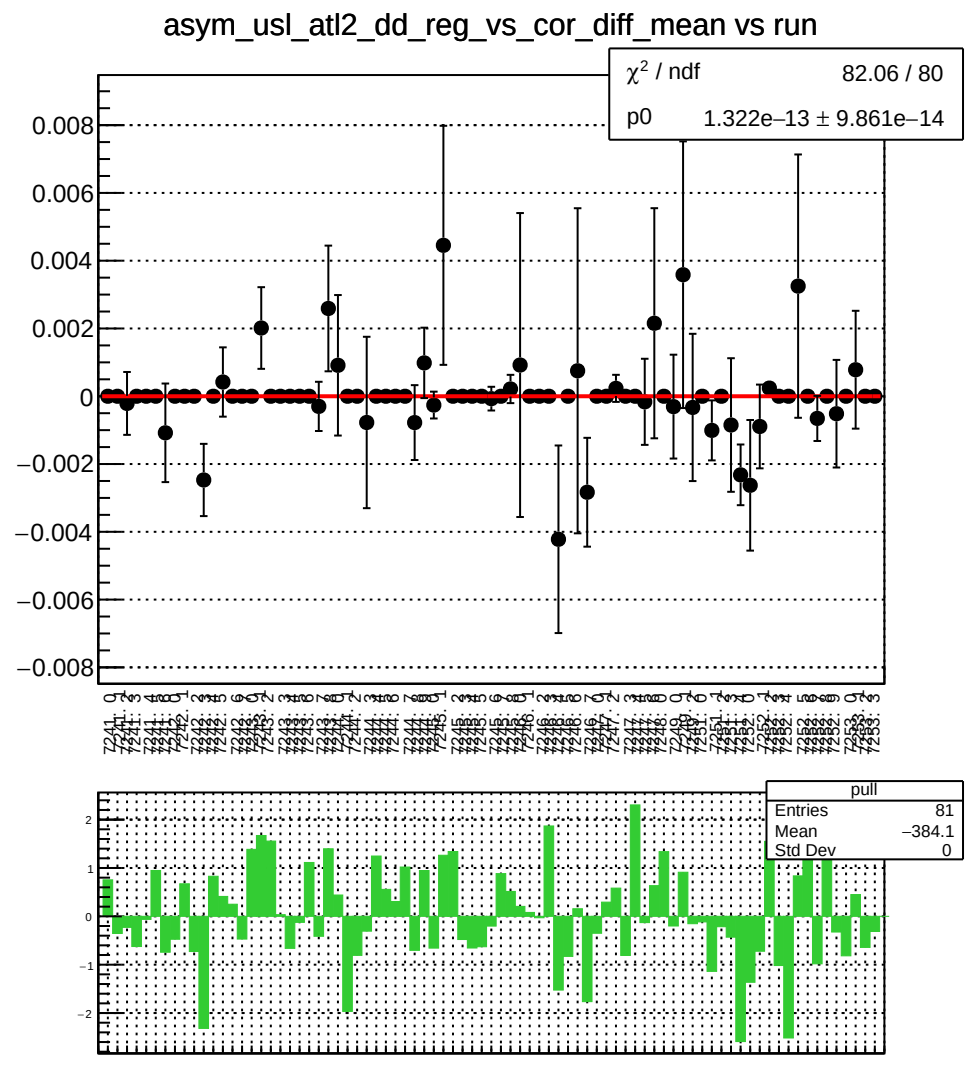

pull1D
Entries 81
Mean −0.02618
Std Dev 1.087
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

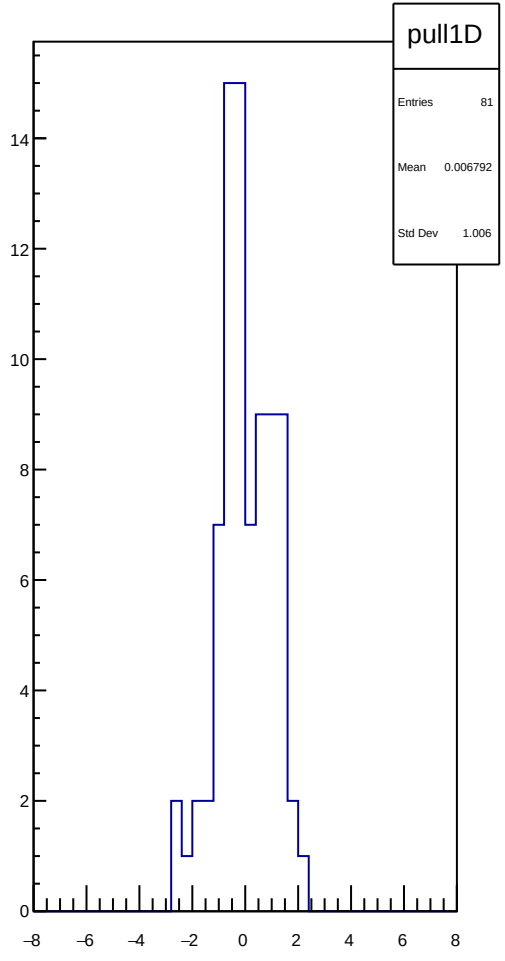

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 5475 / 80
p0 3023 ± 2.433
3600
3400
3200
3000
2800
2600

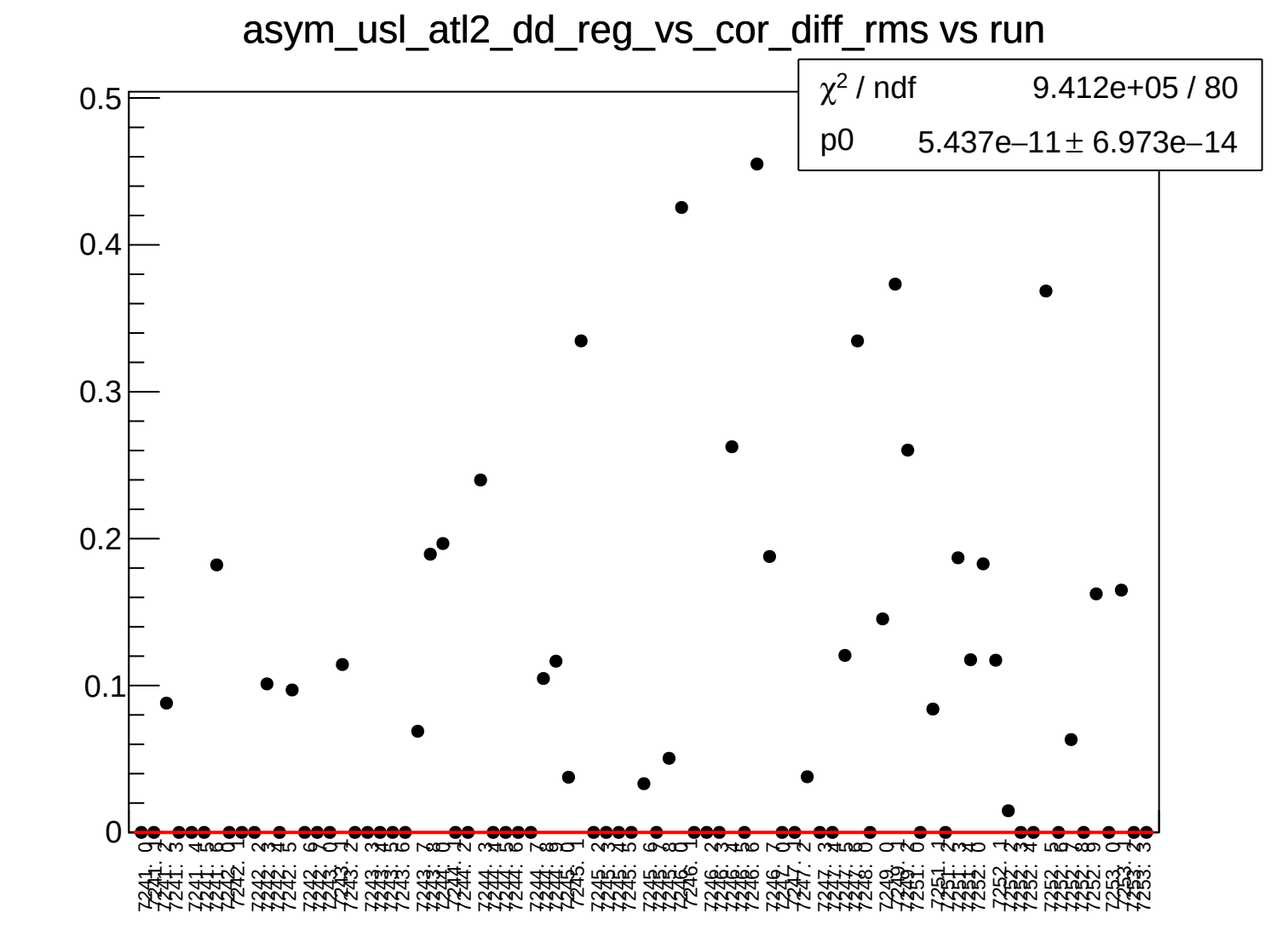

asym_usl_atl2_dd_mean vs run
×10^3
χ² / ndf 84.88 / 80
p0 −1173 ± 3987
100
50
0
−50
−100
pull
Entries 81
Mean −139.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

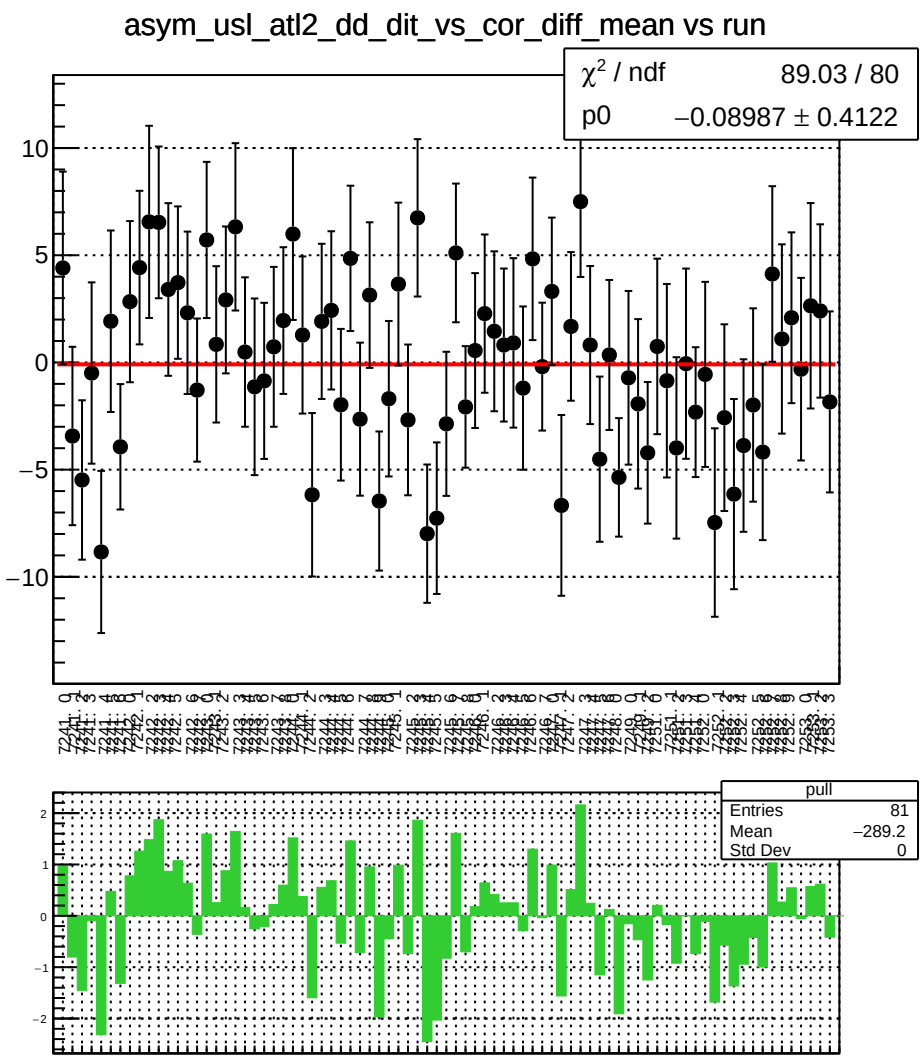

pull1D
Entries 81
Mean 0.02495
Std Dev 1.023
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

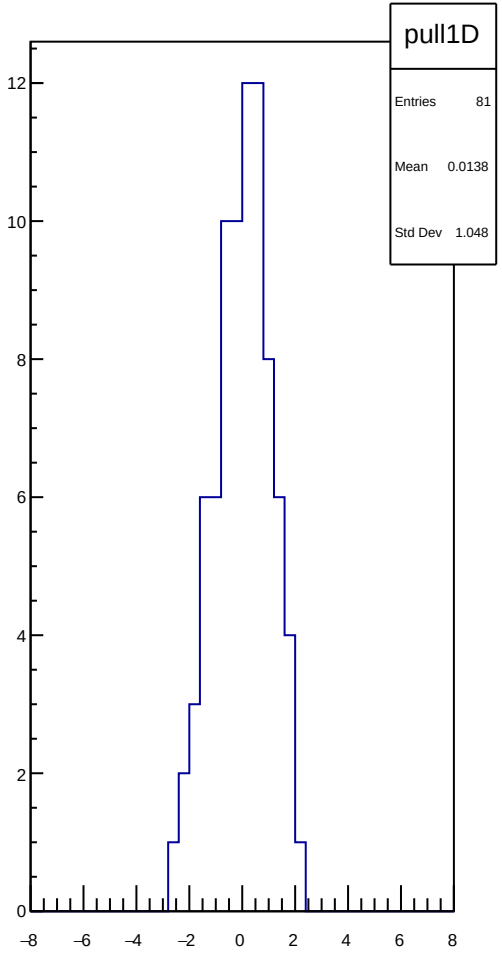

asym_usl_atl2_dd_rms vs run
χ² / ndf 4283 / 80
p0 3504 ± 2.819
4200
4000
3800
3600
3400
3200

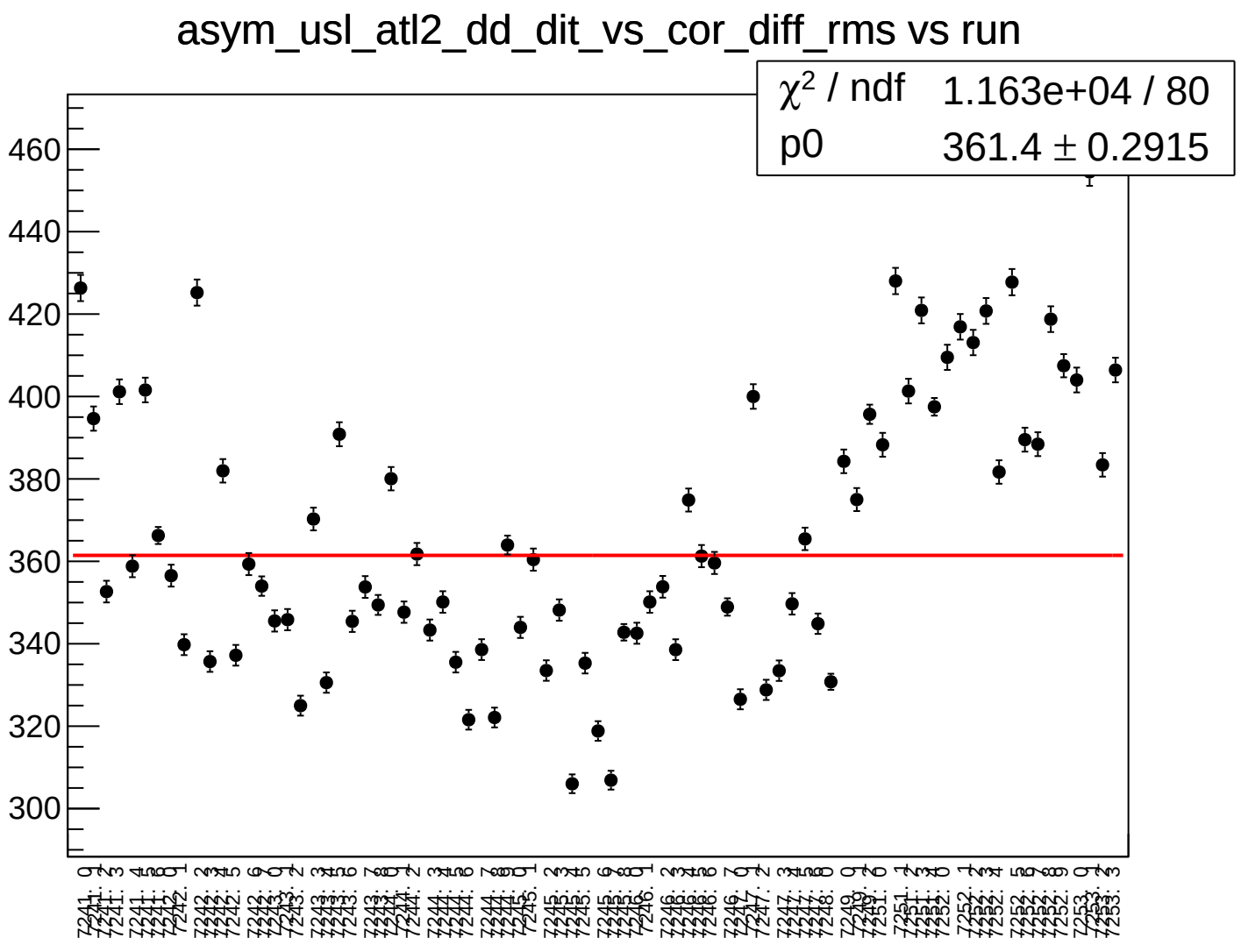

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 82.06 / 80
p0 1.322e−13 ± 9.861e−14
pull
Entries 81
Mean −384.1
Std Dev 0

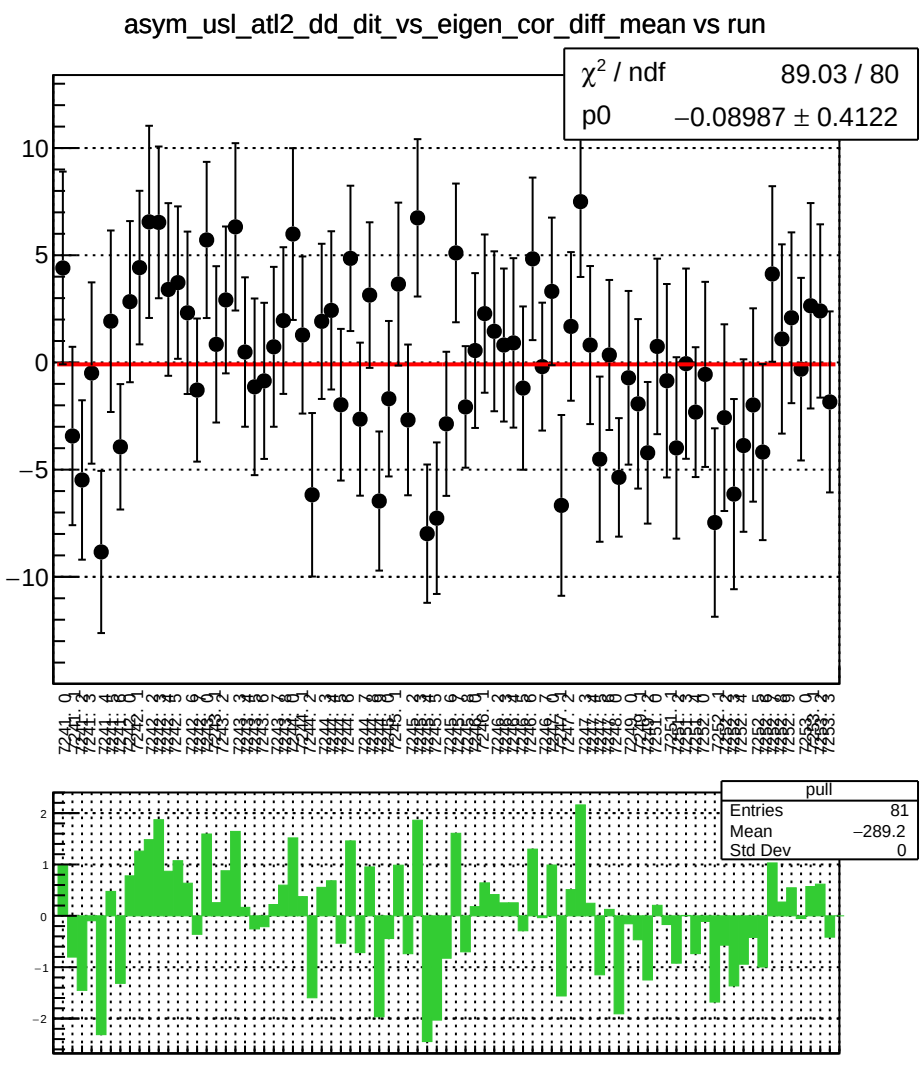

pull1D
Entries 81
Mean 0.006792
Std Dev 1.006

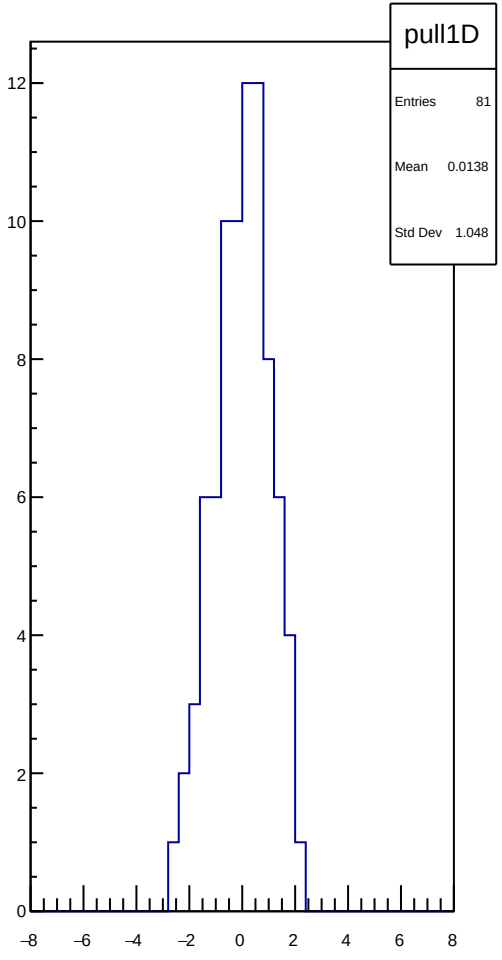

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.412e+05 / 80
p0 5.437e−11 ± 6.973e−14
0.5
0.4
0.3
0.2
0.1
0

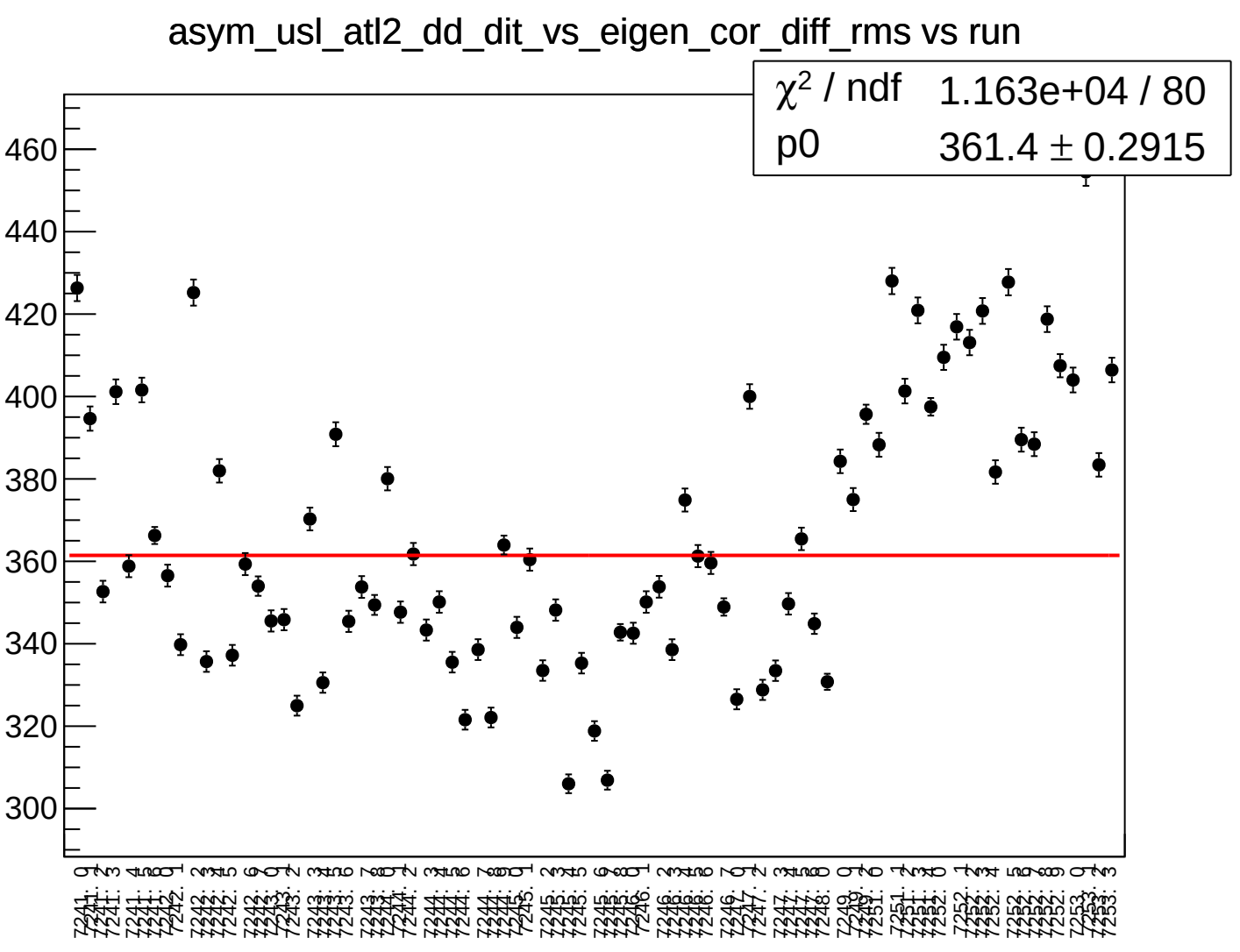

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 89.03 / 80
p0 −0.08987 ± 0.4122
pull
Entries 81
Mean −289.2
Std Dev 0

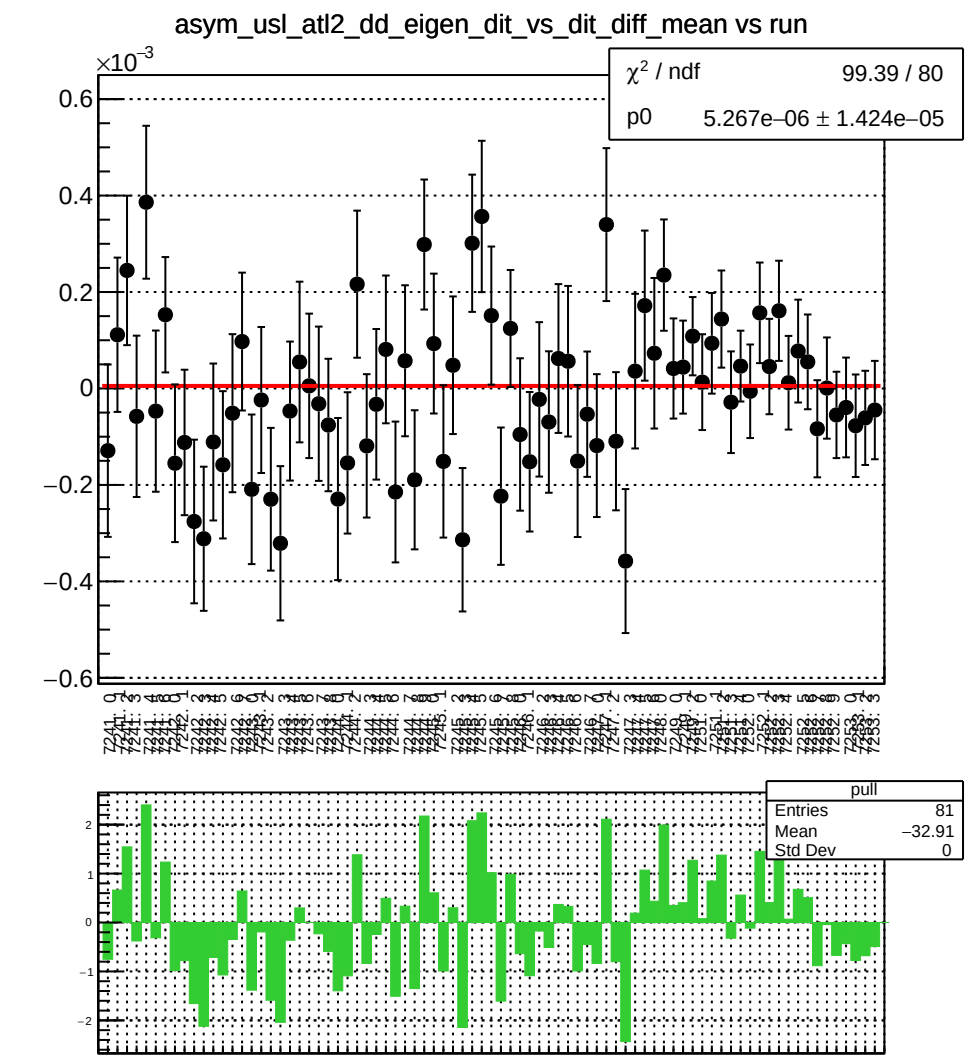

pull1D
Entries 81
Mean 0.0138
Std Dev 1.048

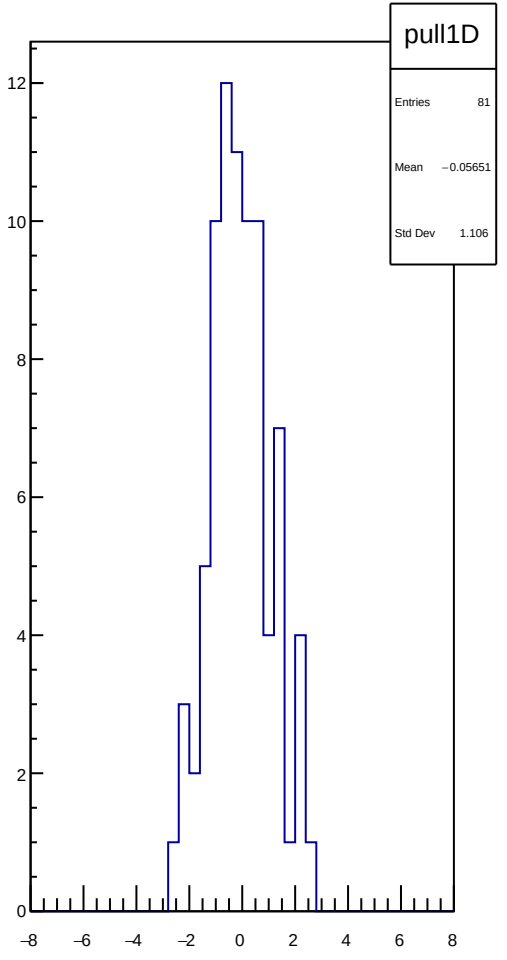

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.163e+04 / 80
p0 361.4 ± 0.2915
460
440
420
400
380
360
340
320
300

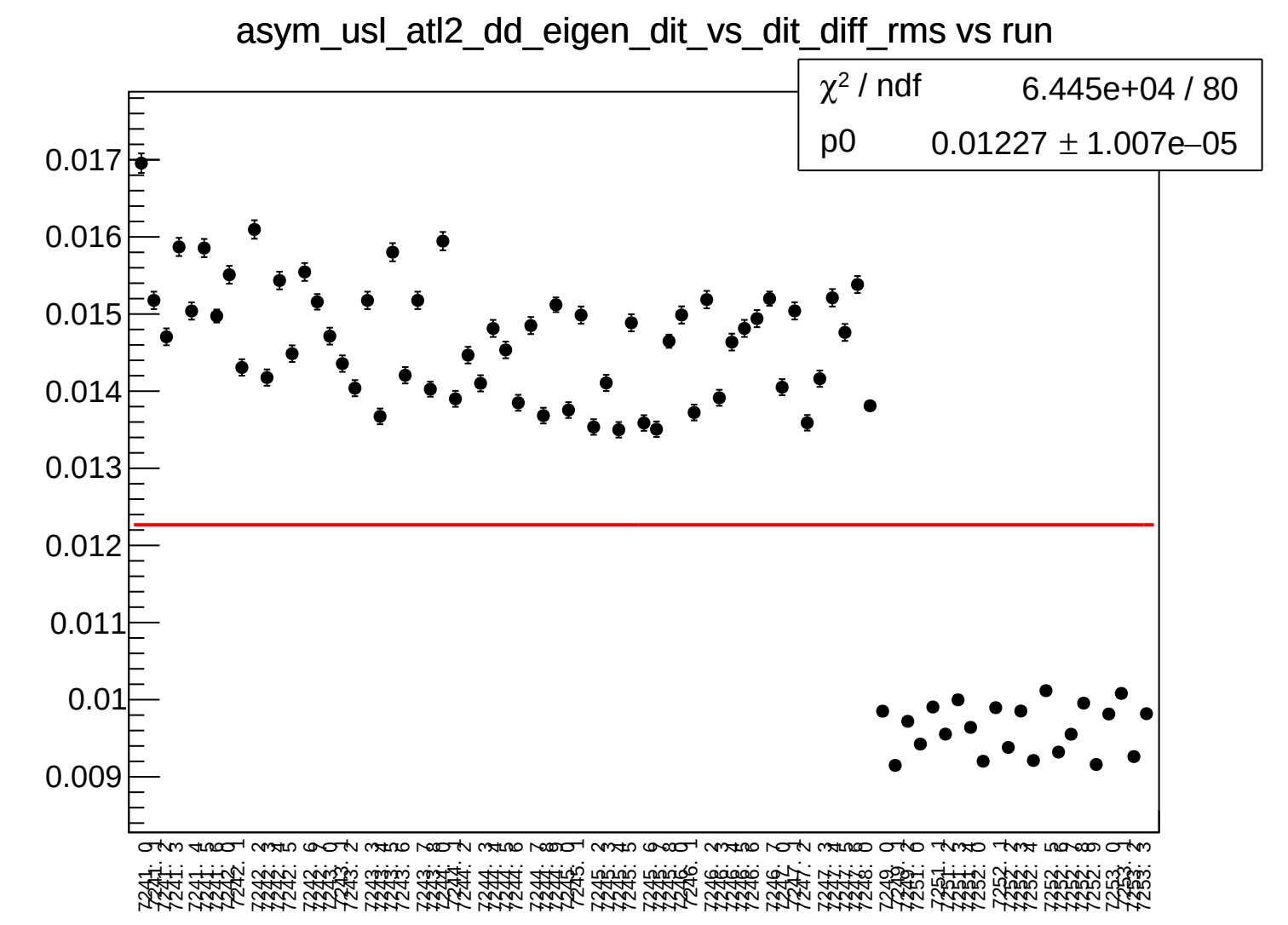

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.03 / 80
p0 −0.08987 ± 0.4122
pull
Entries 81
Mean −289.2
Std Dev 0

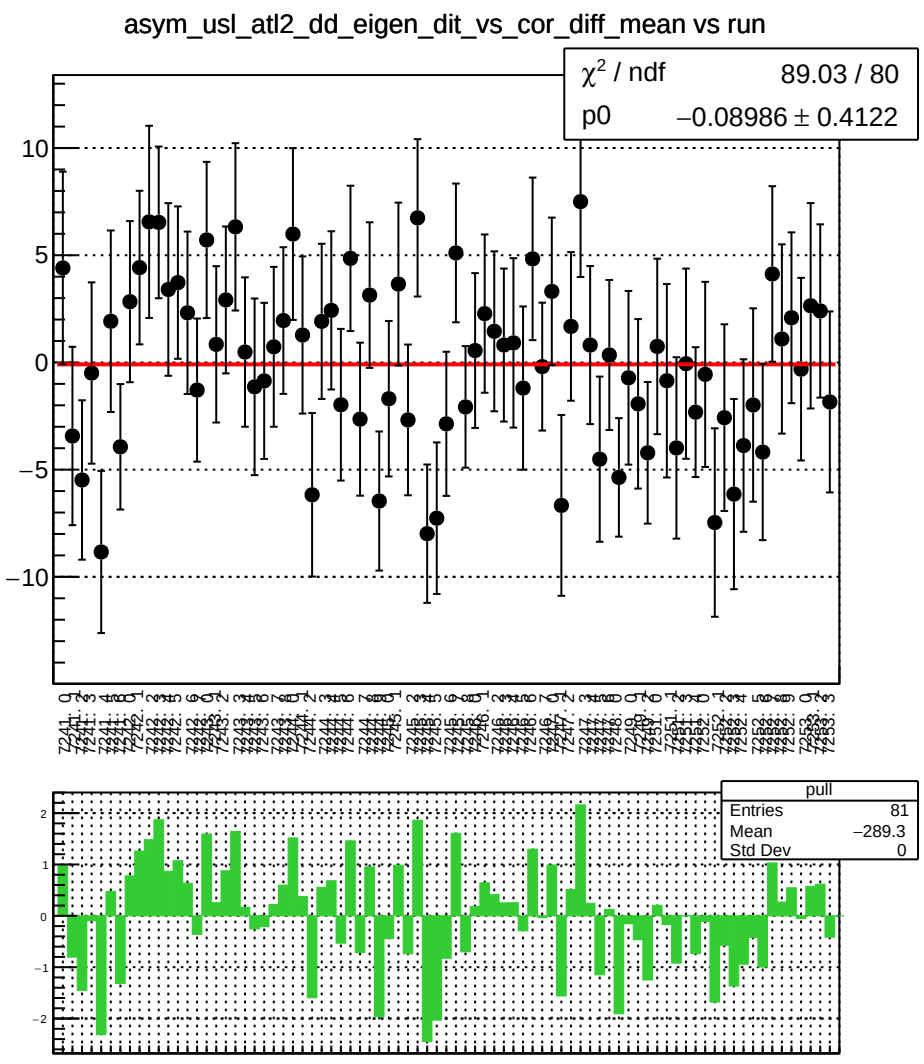

pull1D
Entries 81
Mean 0.0138
Std Dev 1.048

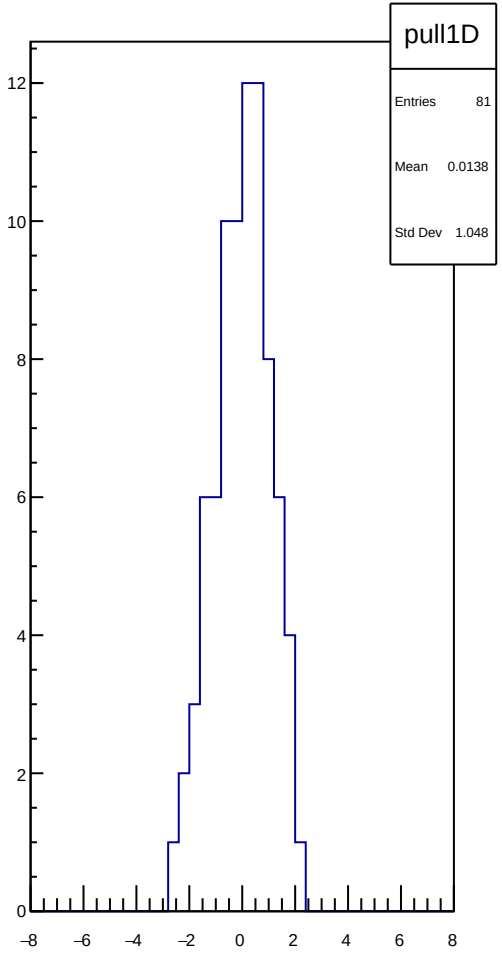

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.163e+04 / 80
p0 361.4 ± 0.2915
460
440
420
400
380
360
340
320
300

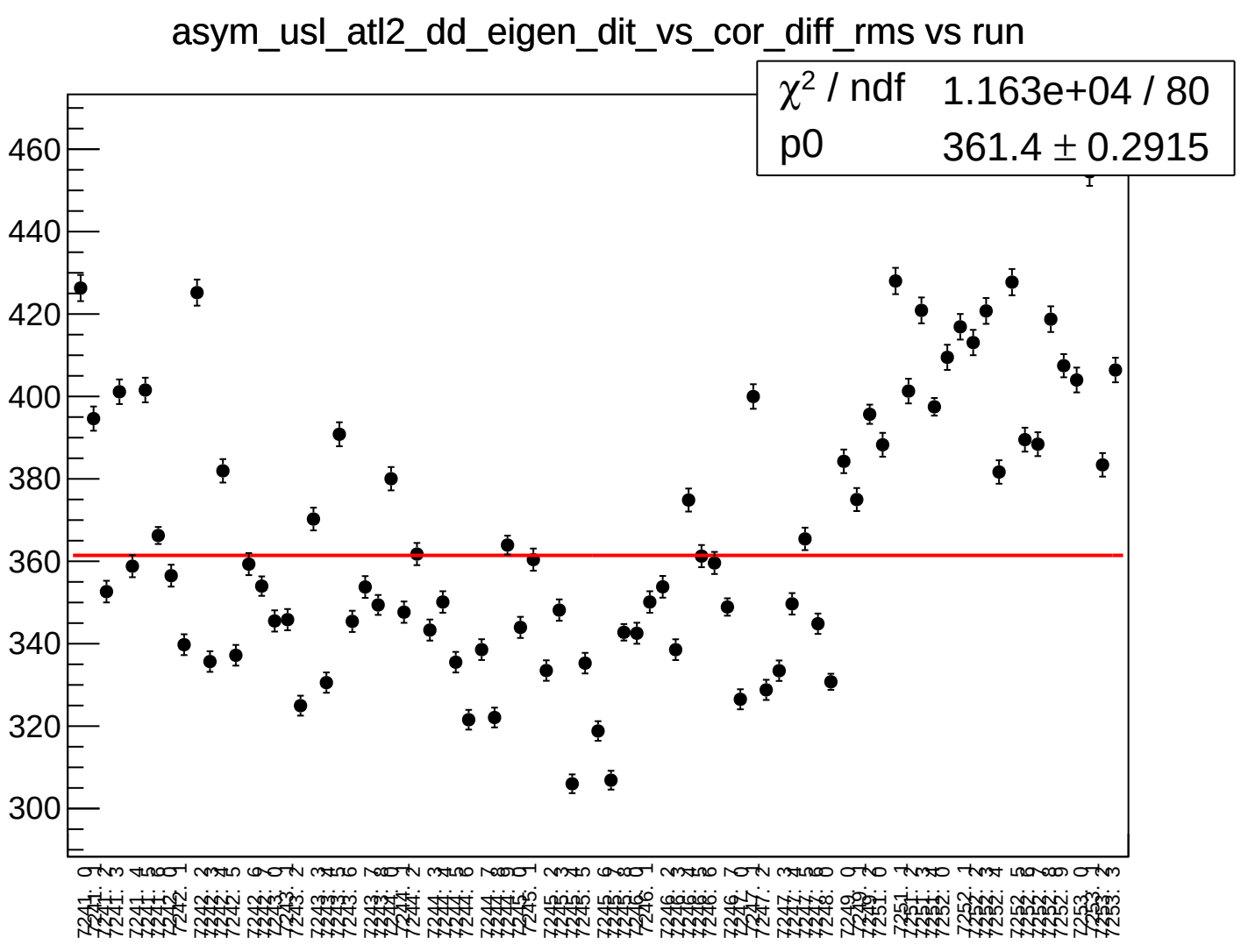

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.39 / 80
p0 5.267e−06 ± 1.424e−05
pull
Entries 81
Mean −32.91
Std Dev 0

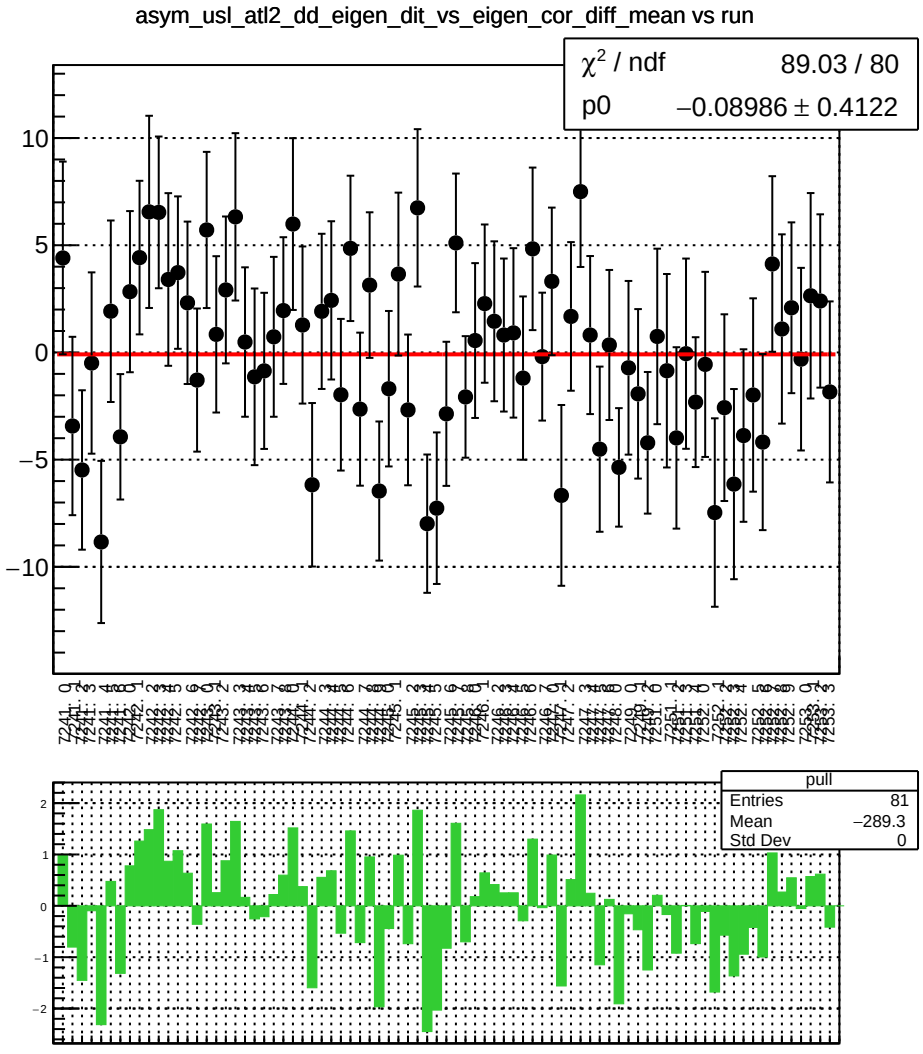

pull1D
Entries 81
Mean −0.05651
Std Dev 1.106

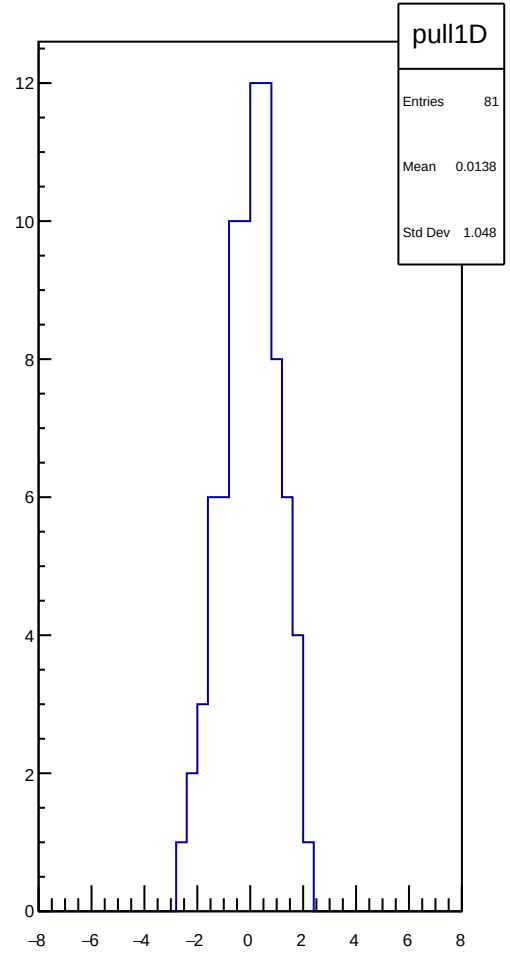

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.445e+04 / 80
p0 0.01227 ± 1.007e−05
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009

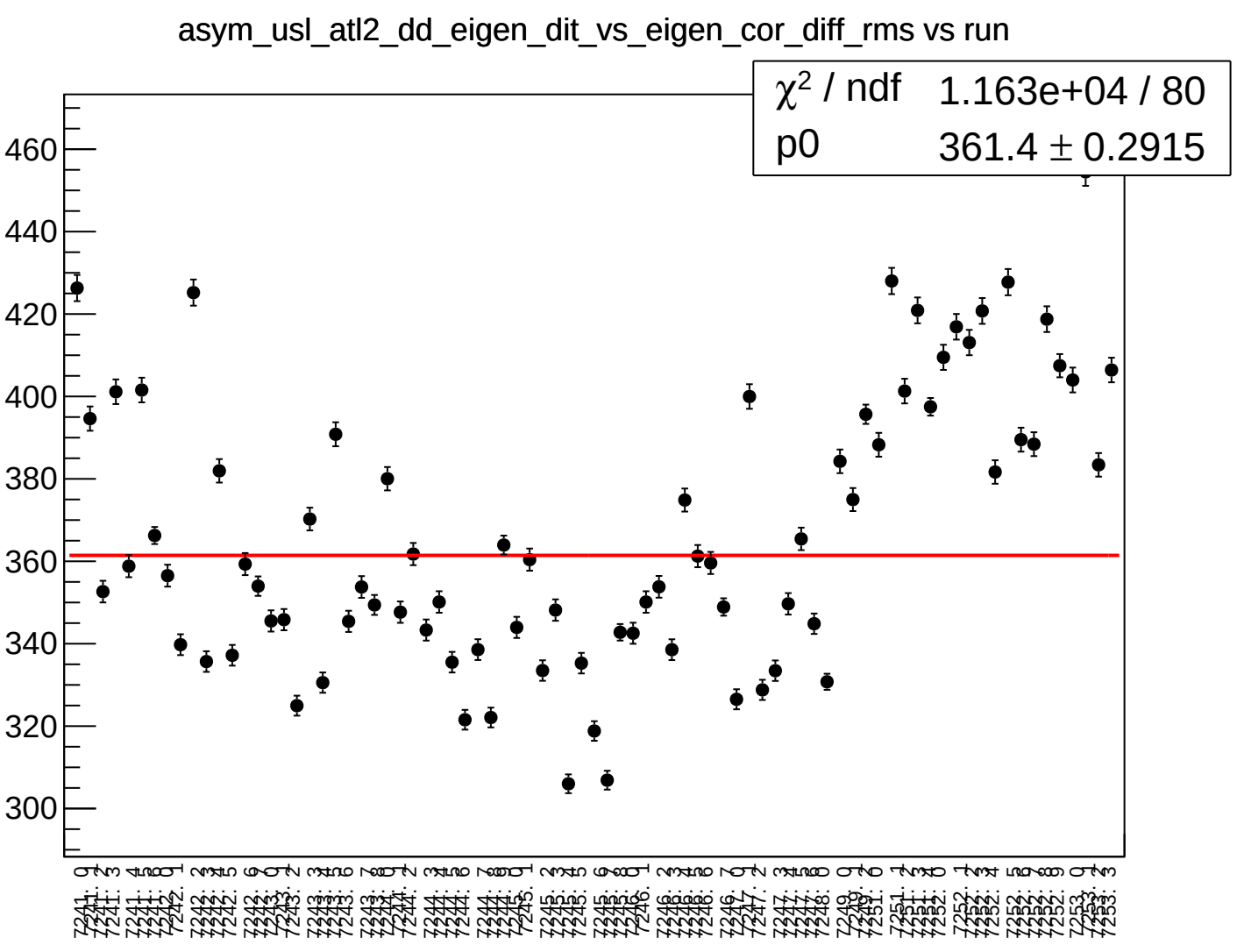

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.03 / 80
p0 −0.08986 ± 0.4122
pull
Entries 81
Mean −289.3
Std Dev 0

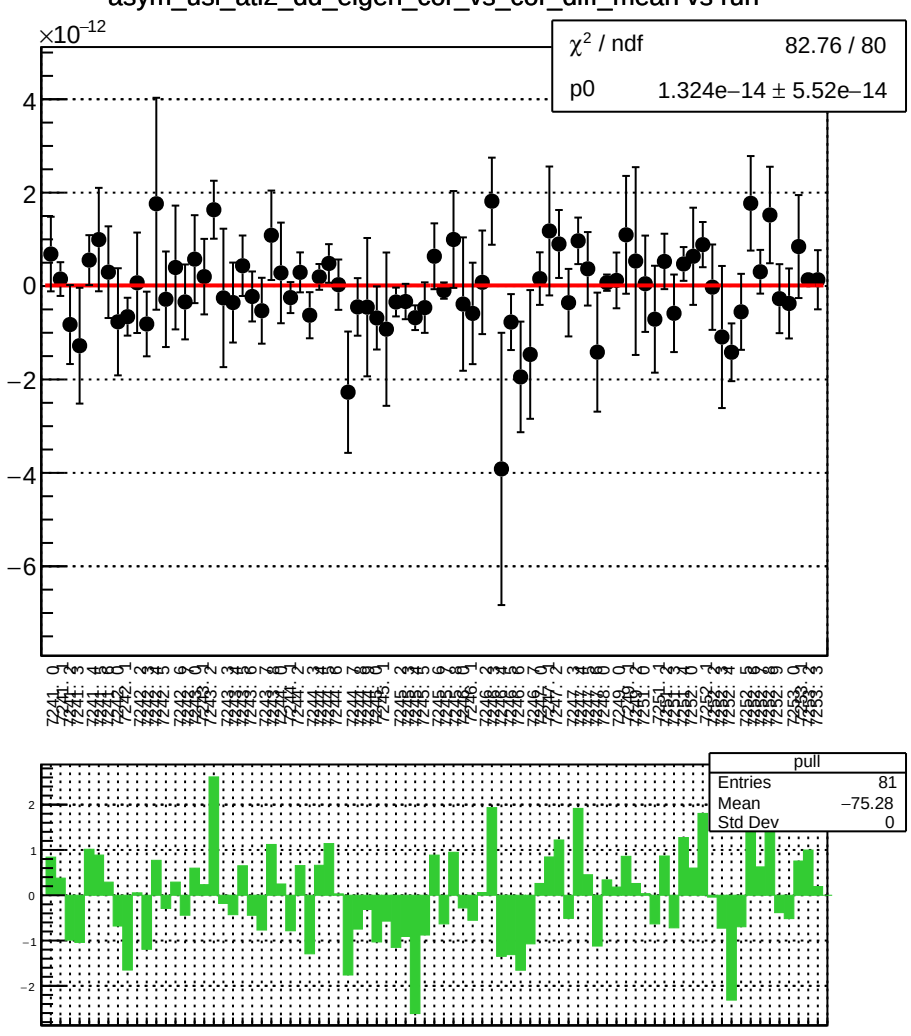

pull1D
Entries 81
Mean 0.0138
Std Dev 1.048

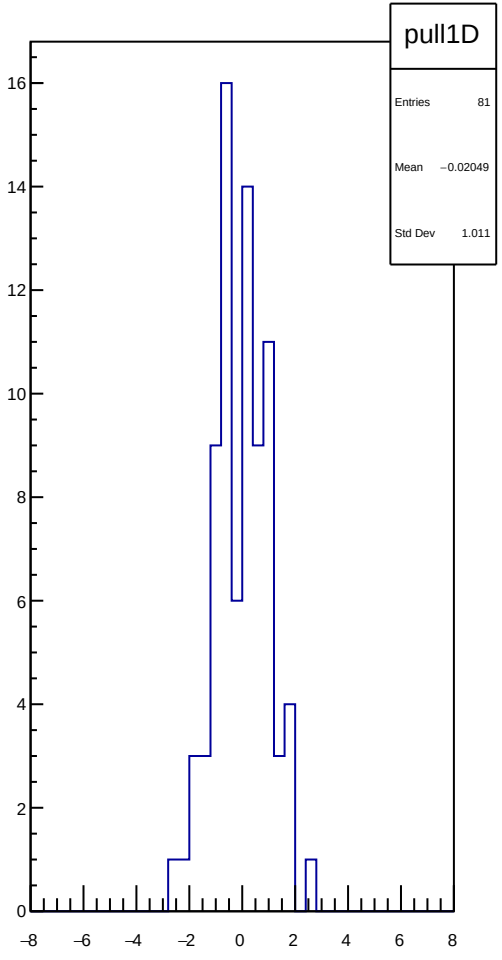

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.163e+04 / 80
p0 361.4 ± 0.2915
460
440
420
400
380
360
340
320
300

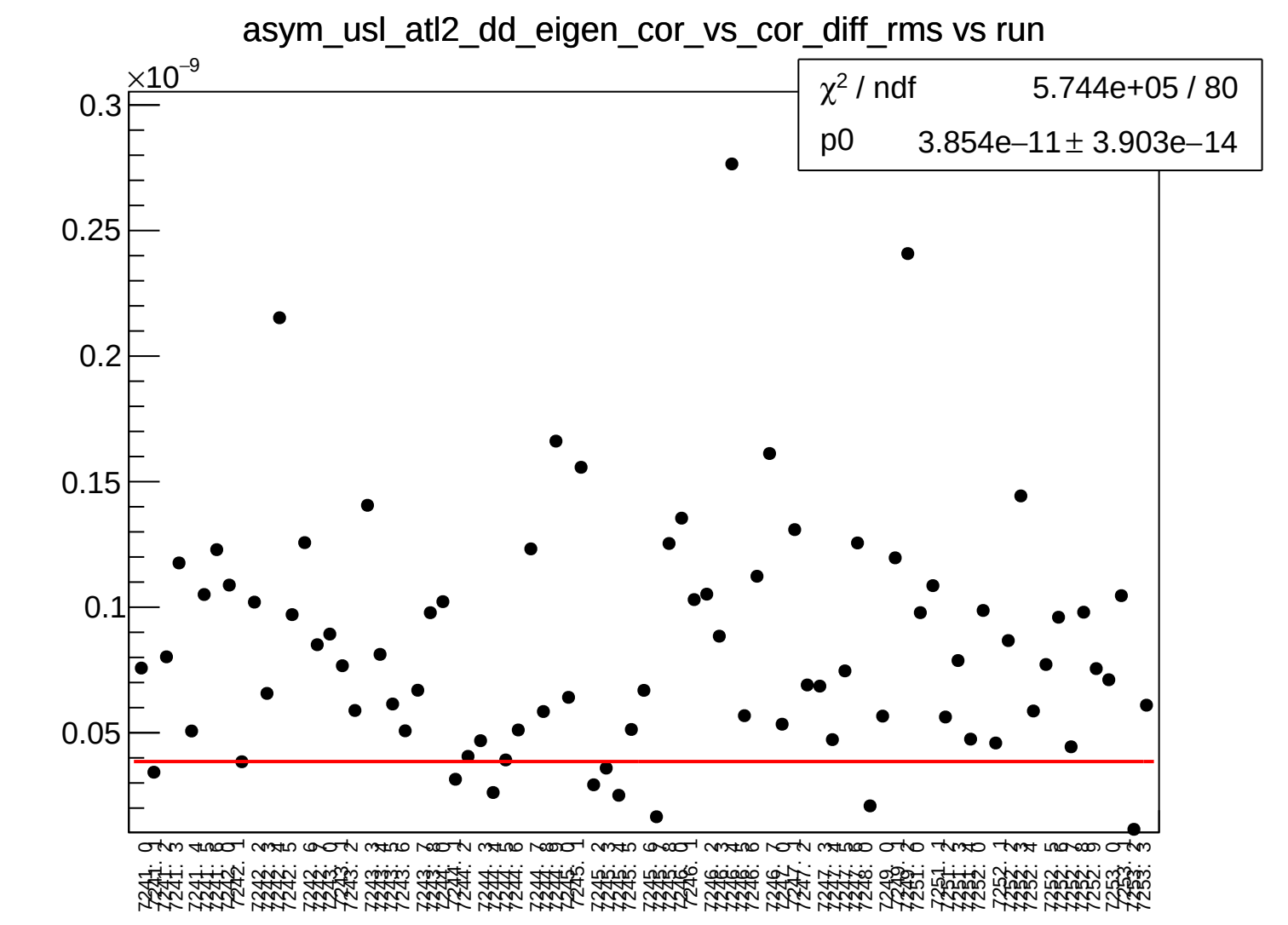

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.03 / 80
p0 −0.08986 ± 0.4122
pull
Entries 81
Mean −289.3
Std Dev 0

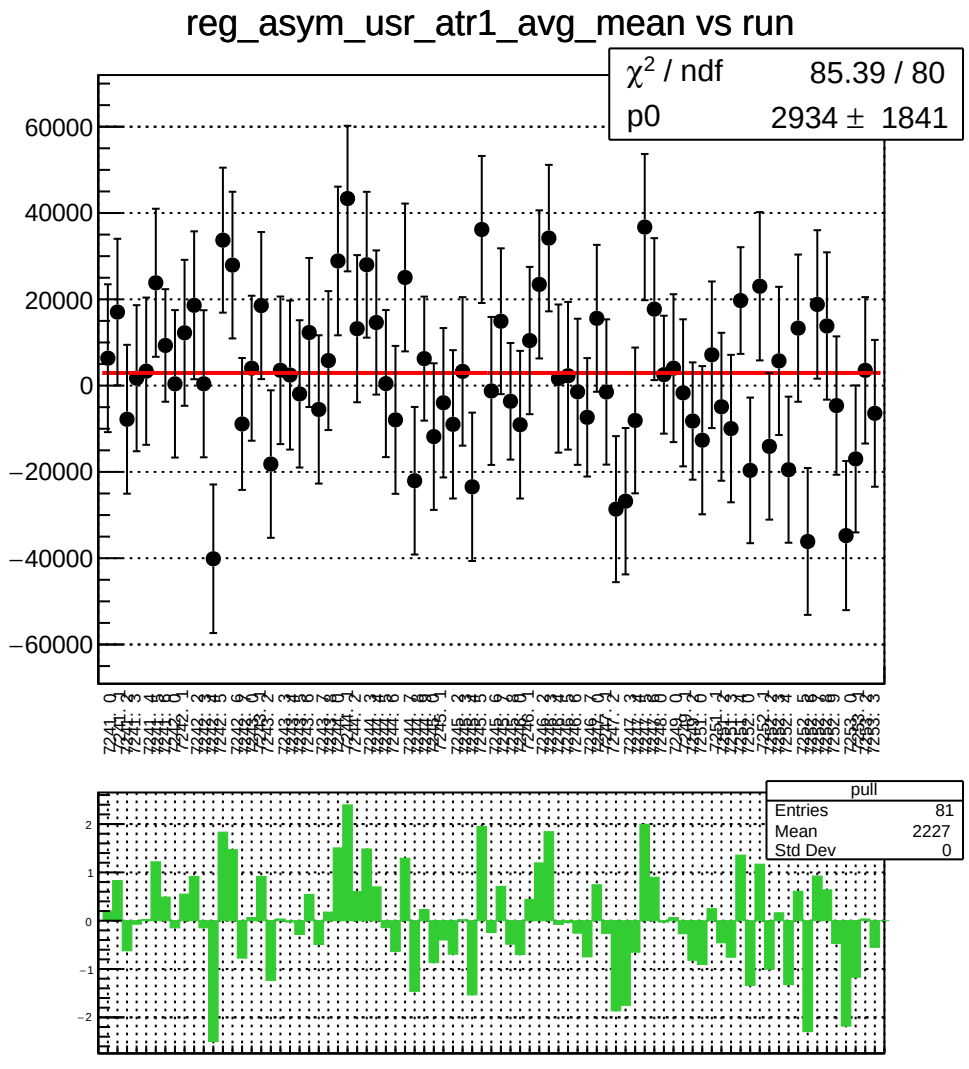

pull1D
Entries 81
Mean 0.0138
Std Dev 1.048

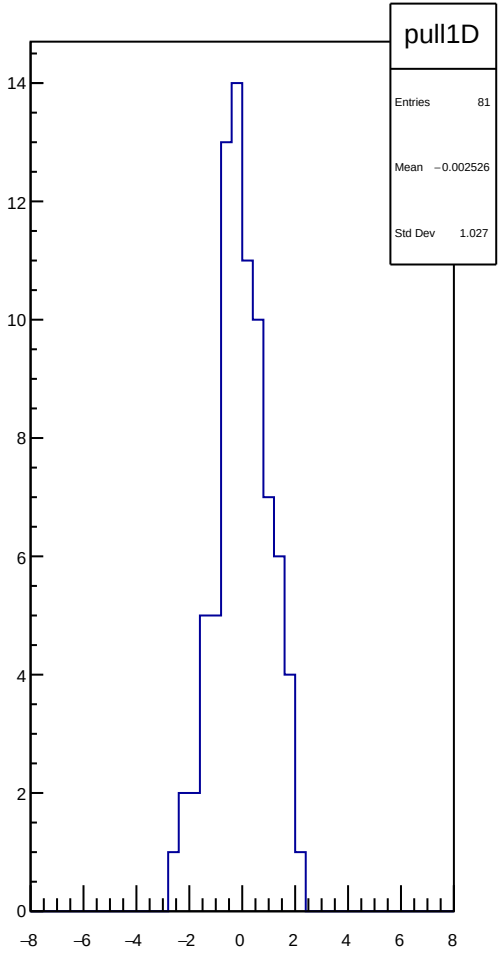

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.163e+04 / 80
p0 361.4 ± 0.2915
460
440
420
400
380
360
340
320
300

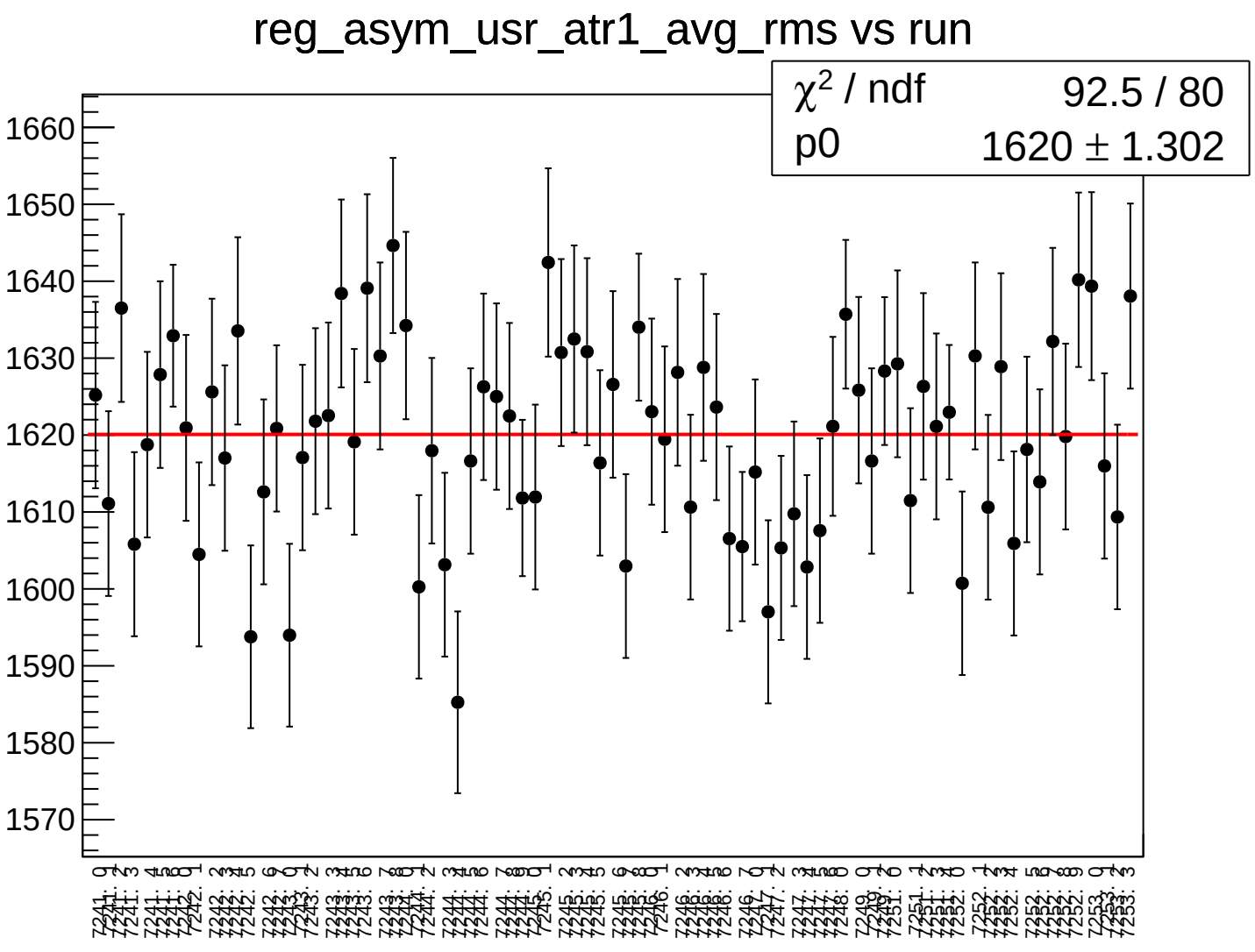

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.76 / 80
p0 1.324e−14 ± 5.52e−14
pull
Entries 81
Mean −75.28
Std Dev 0

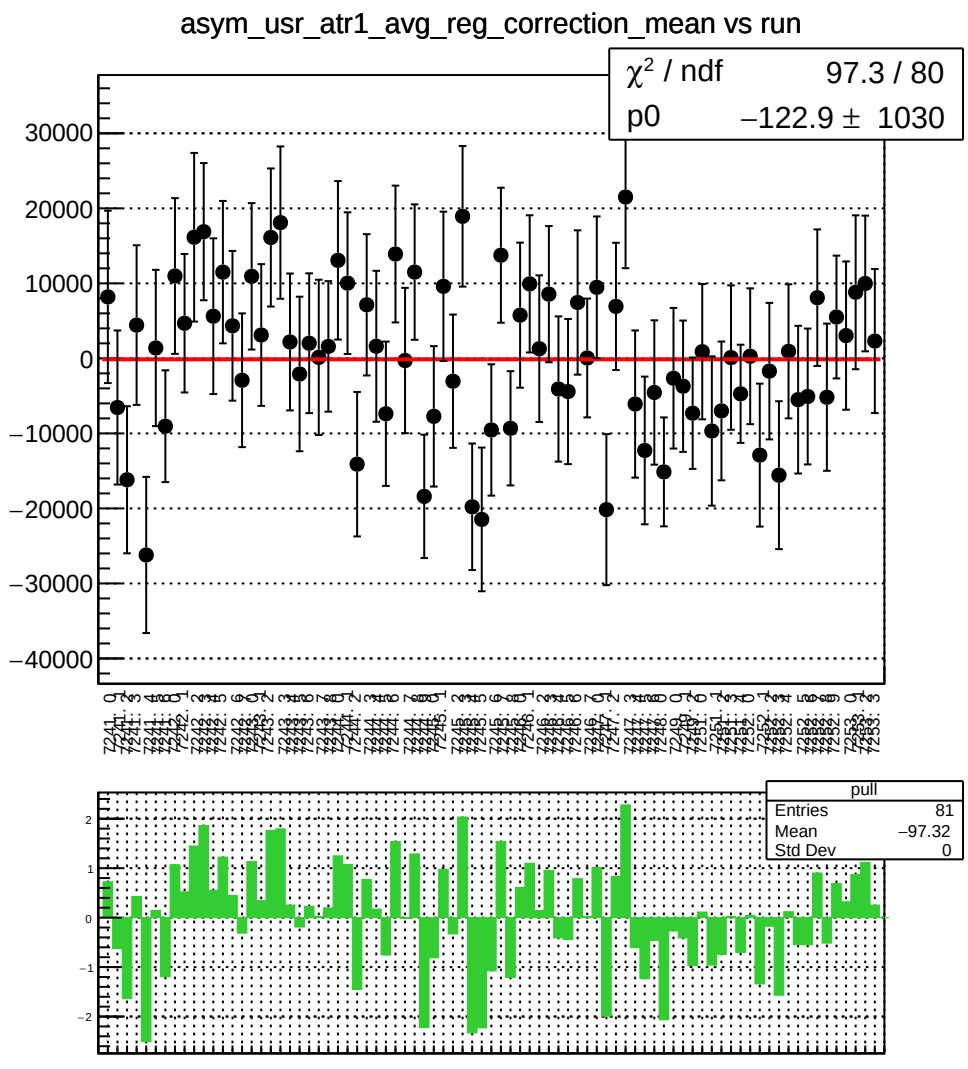

pull1D
Entries 81
Mean −0.02049
Std Dev 1.011

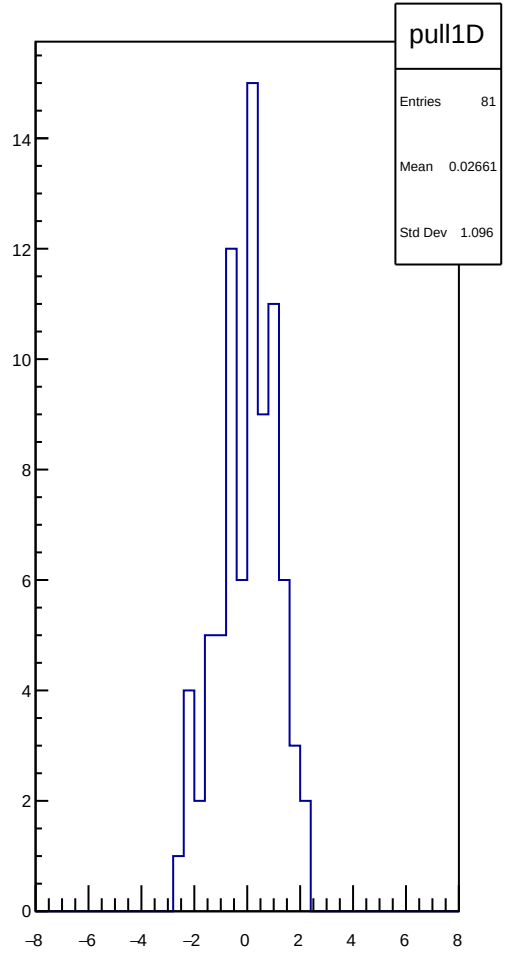

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.744e+05 / 80
p0 3.854e−11 ± 3.903e−14
0.3
0.25
0.2
0.15
0.1
0.05

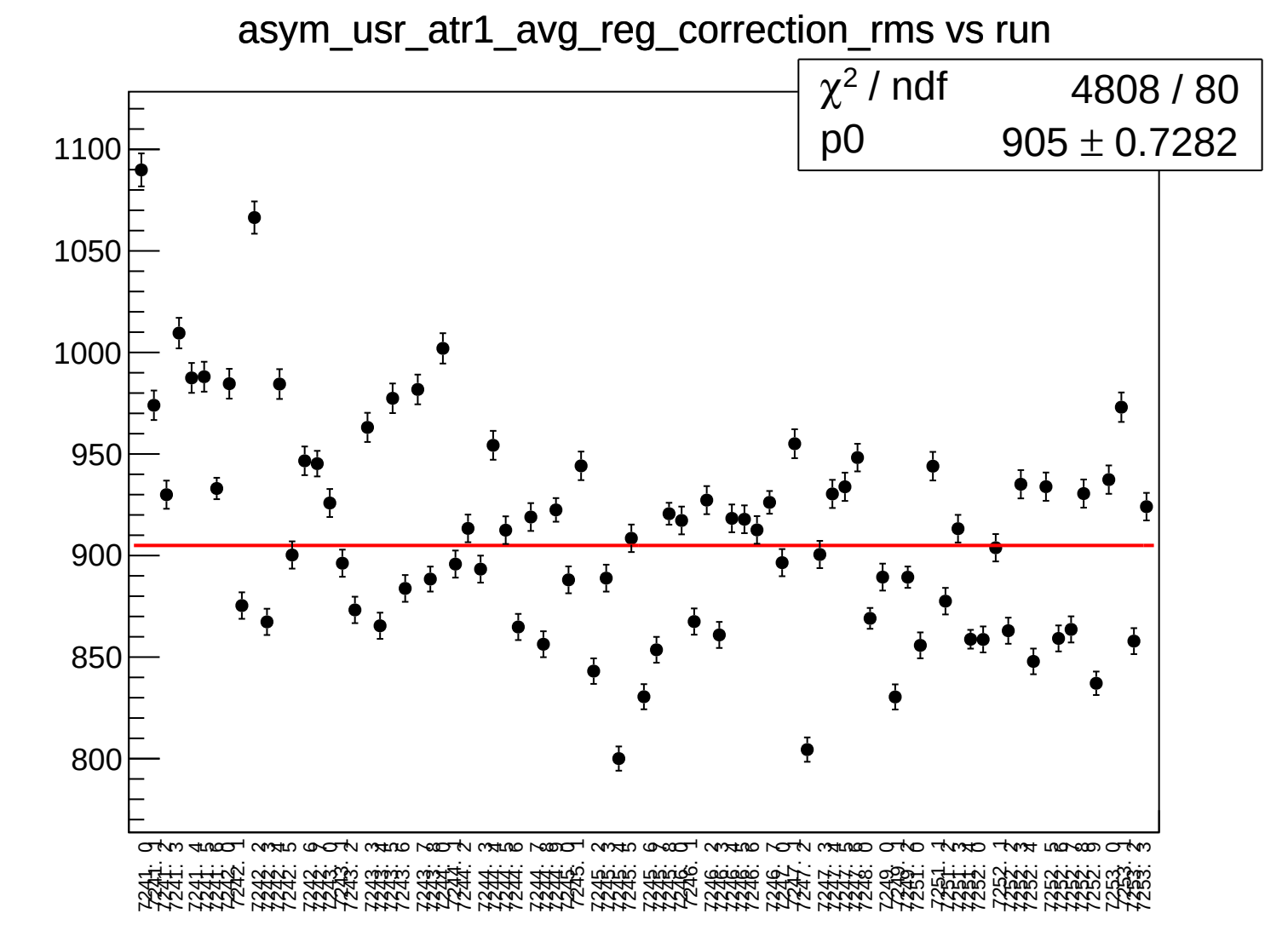

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 85.39 / 80
p0 2934 ± 1841
pull
Entries 81
Mean 2227
Std Dev 0

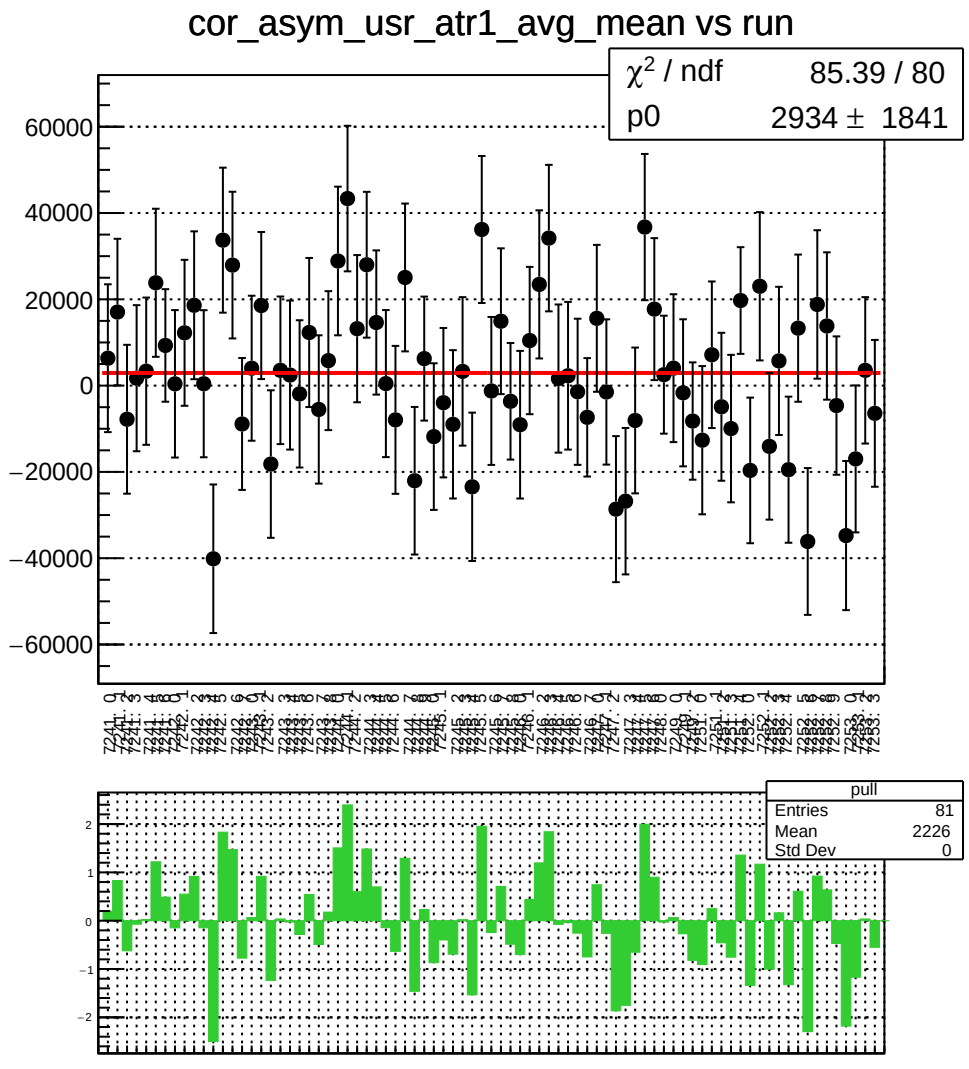

pull1D
Entries 81
Mean −0.002526
Std Dev 1.027

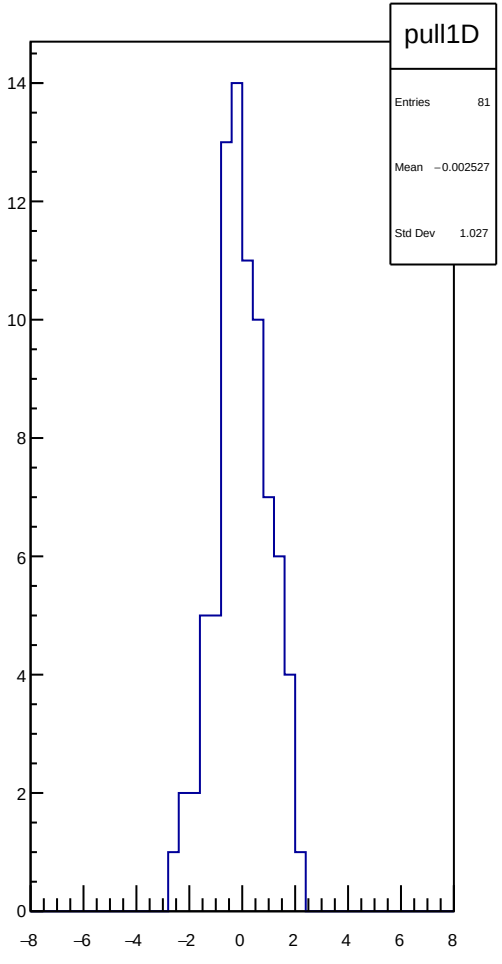

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 92.5 / 80
p0 1620 ± 1.302
1660
1650
1640
1630
1620
1610
1600
1590
1580
1570

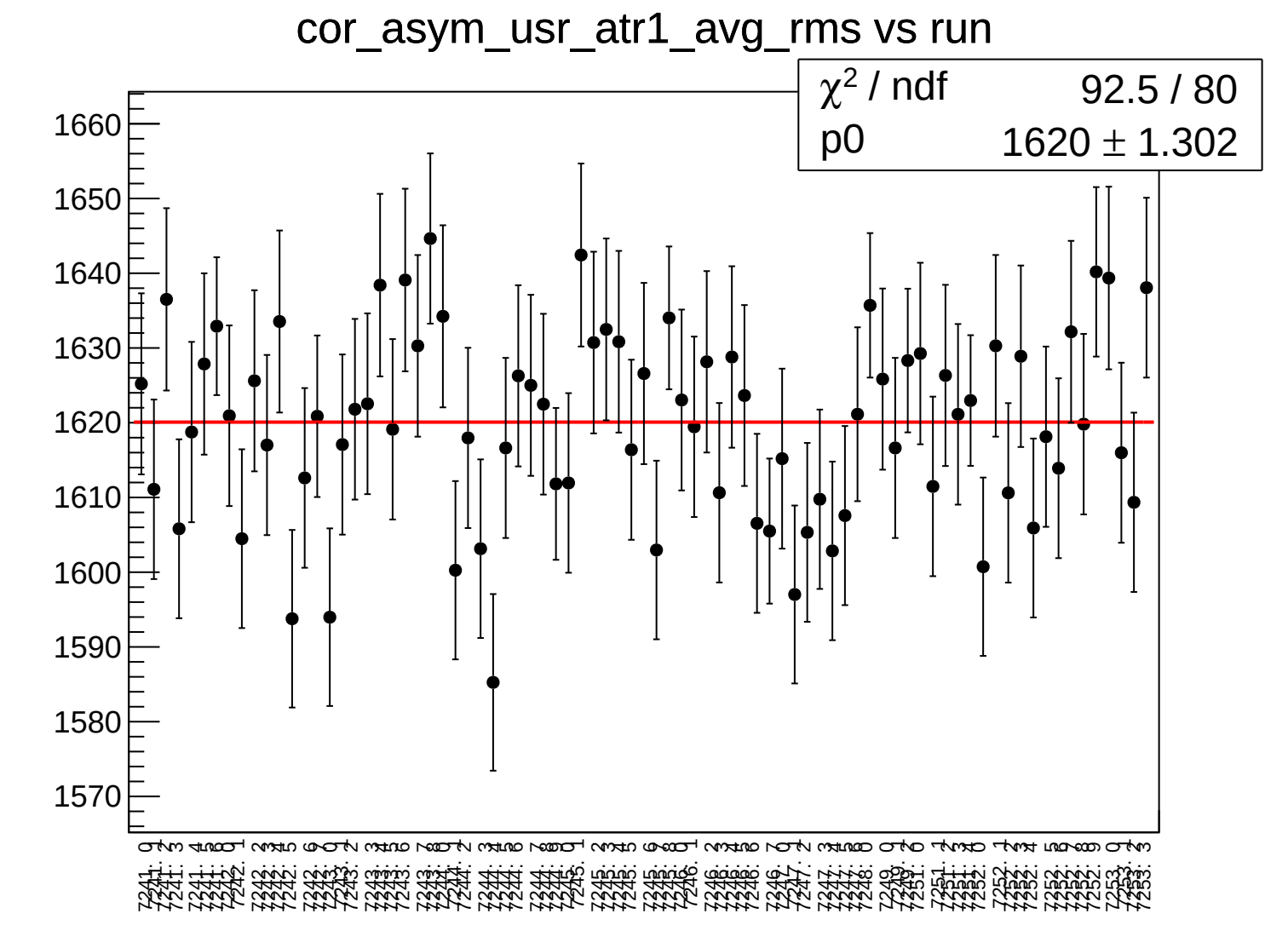

asym_usr_atr1_avg_reg_correction_mean vs run
χ² / ndf 97.3 / 80
p0 −122.9 ± 1030
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 81
Mean −97.32
Std Dev 0
2
1
0
−1
−2

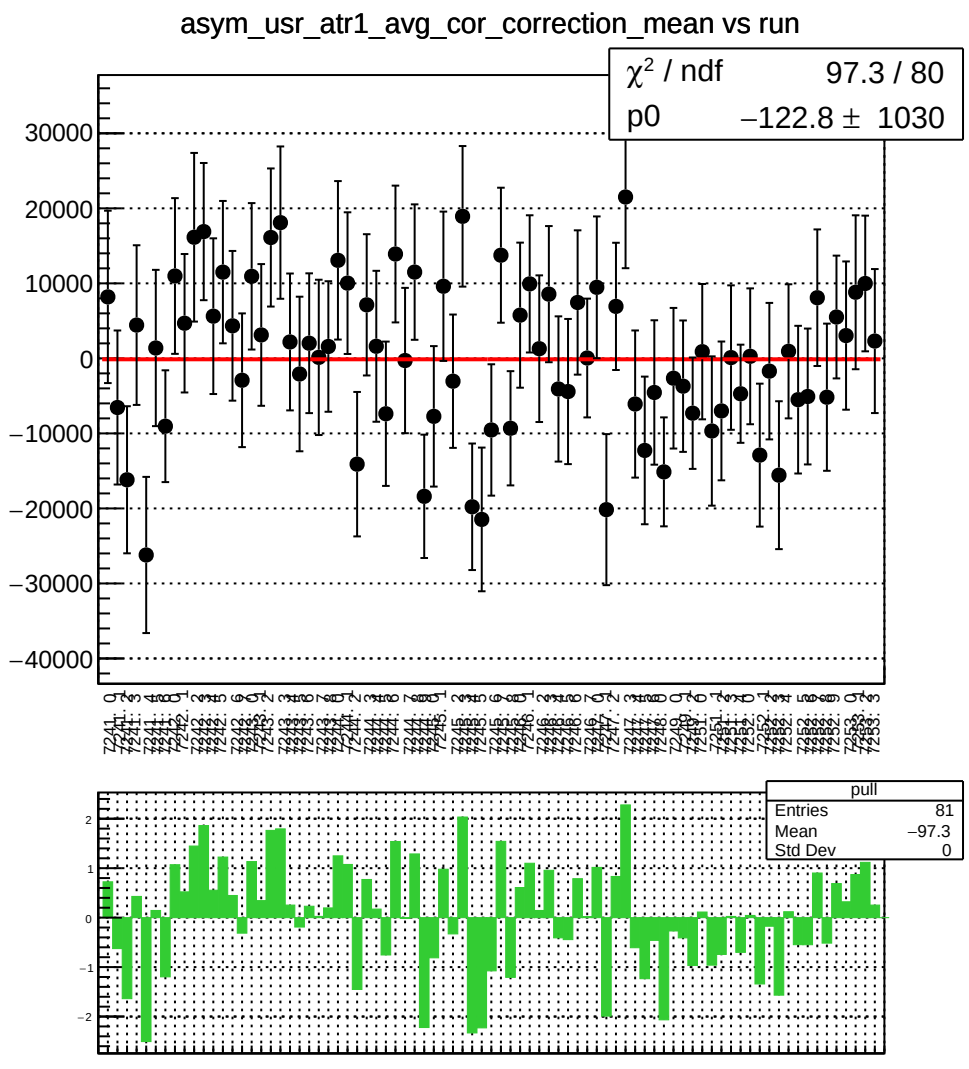

pull1D
Entries 81
Mean 0.02661
Std Dev 1.096
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

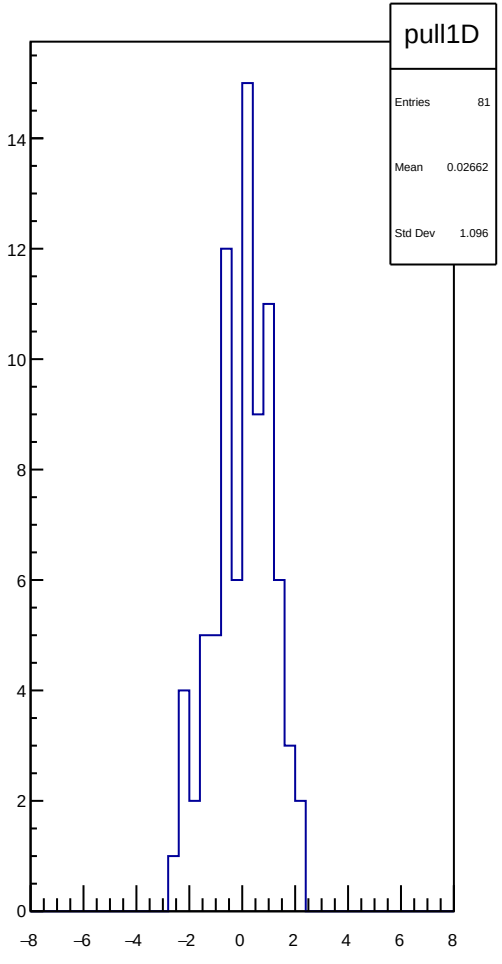

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 4808 / 80
p0 905 ± 0.7282
1100
1050
1000
950
900
850
800

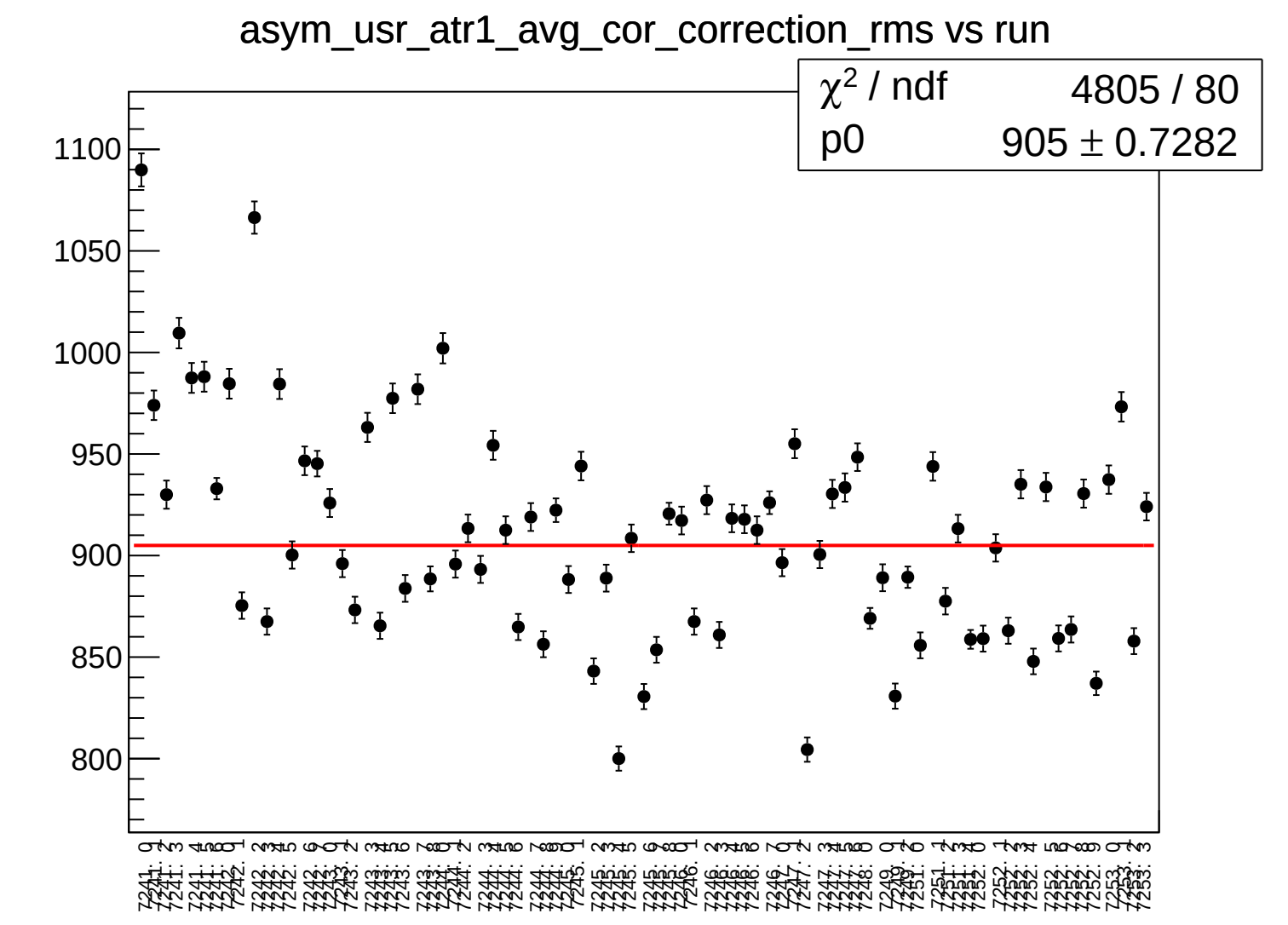

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 85.39 / 80
p0 2934 ± 1841
pull
Entries 81
Mean 2226
Std Dev 0

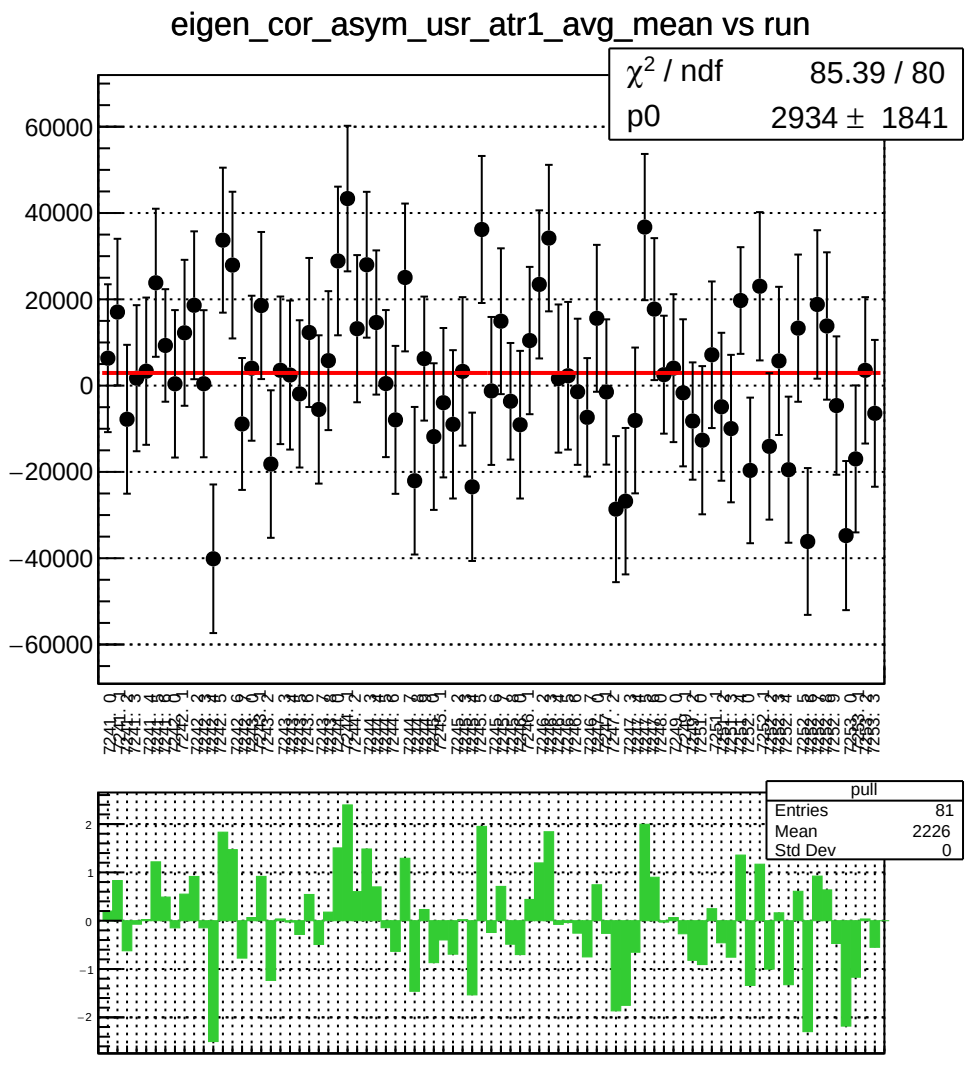

pull1D
Entries 81
Mean −0.002527
Std Dev 1.027

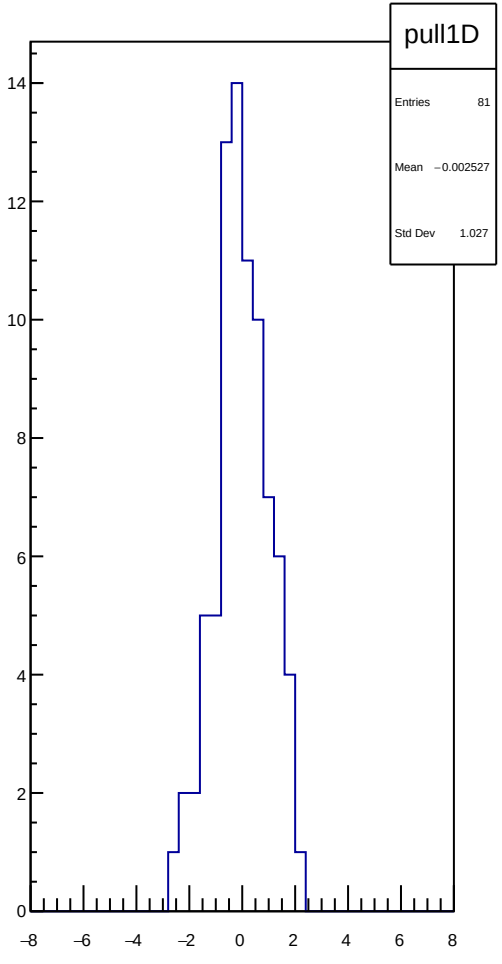

cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 92.5 / 80
p0 1620 ± 1.302
1660
1650
1640
1630
1620
1610
1600
1590
1580
1570

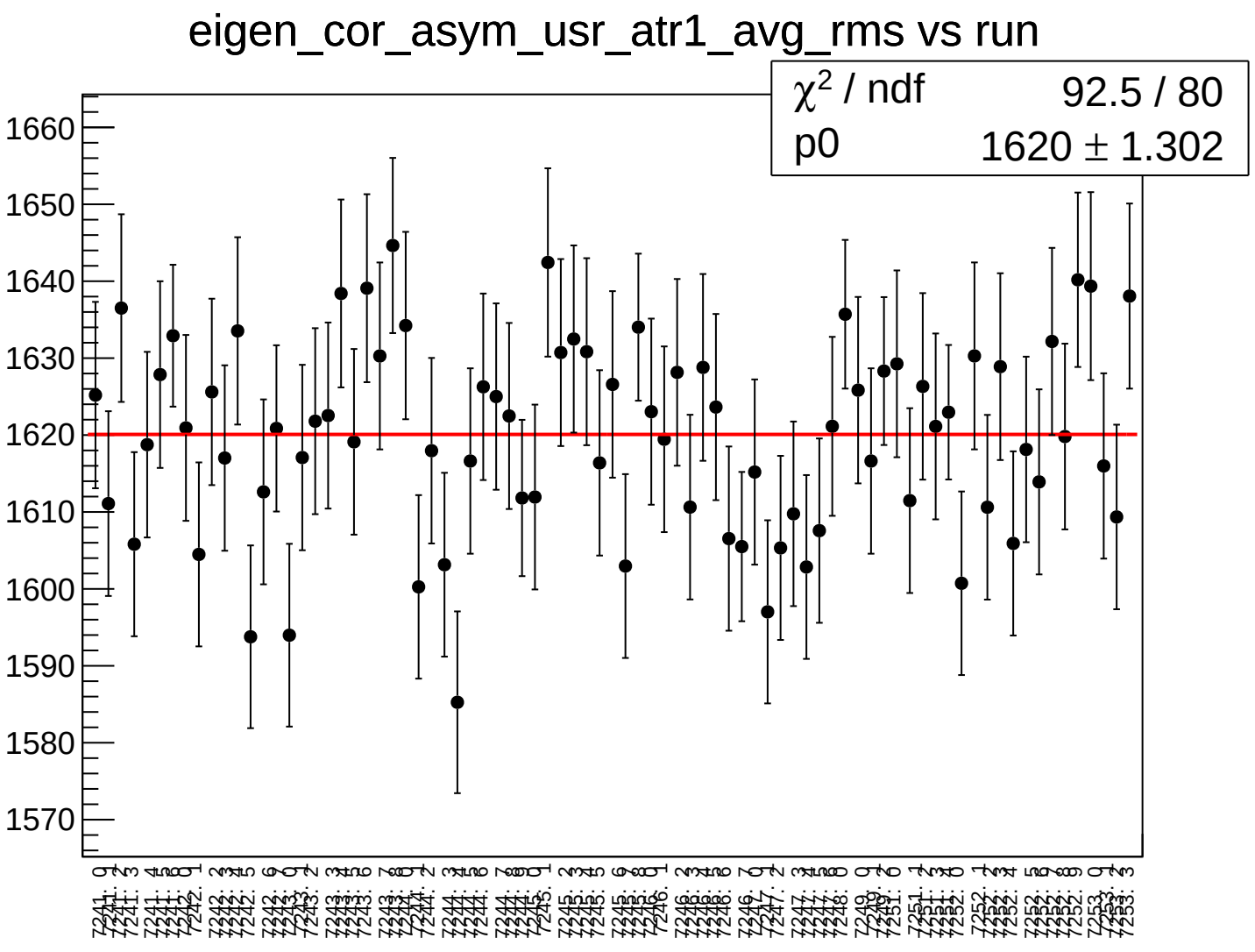

asym_usr_atr1_avg_cor_correction_mean vs run
χ² / ndf 97.3 / 80
p0 −122.8 ± 1030
pull
Entries 81
Mean −97.3
Std Dev 0

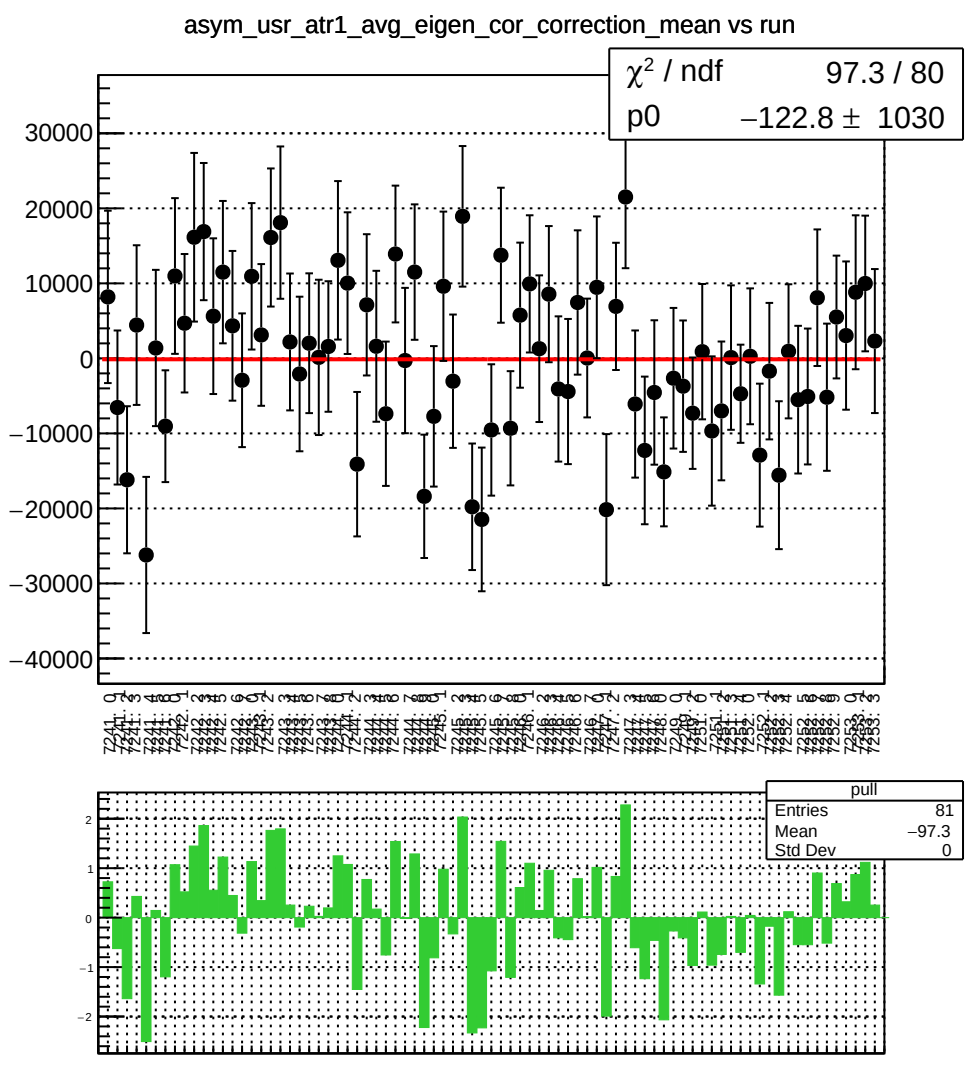

pull1D
Entries 81
Mean 0.02662
Std Dev 1.096

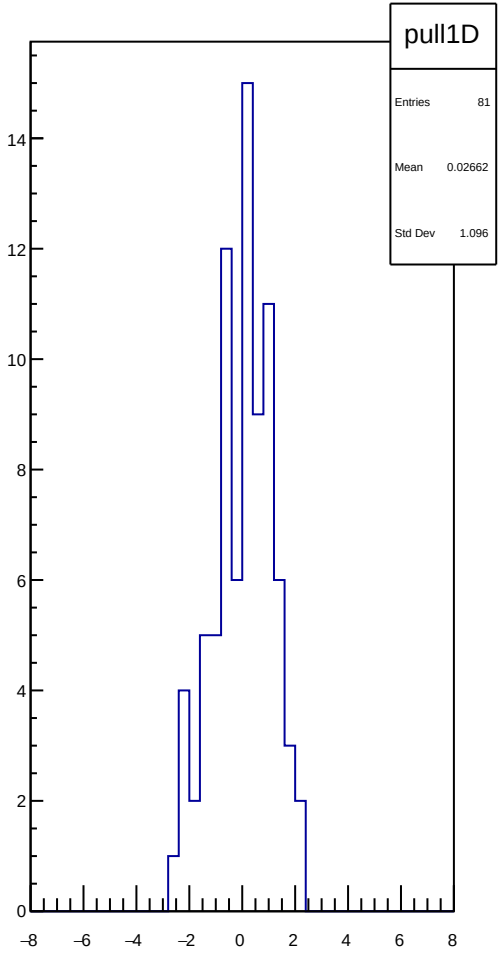

asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 4805 / 80
p0 905 ± 0.7282
1100
1050
1000
950
900
850
800

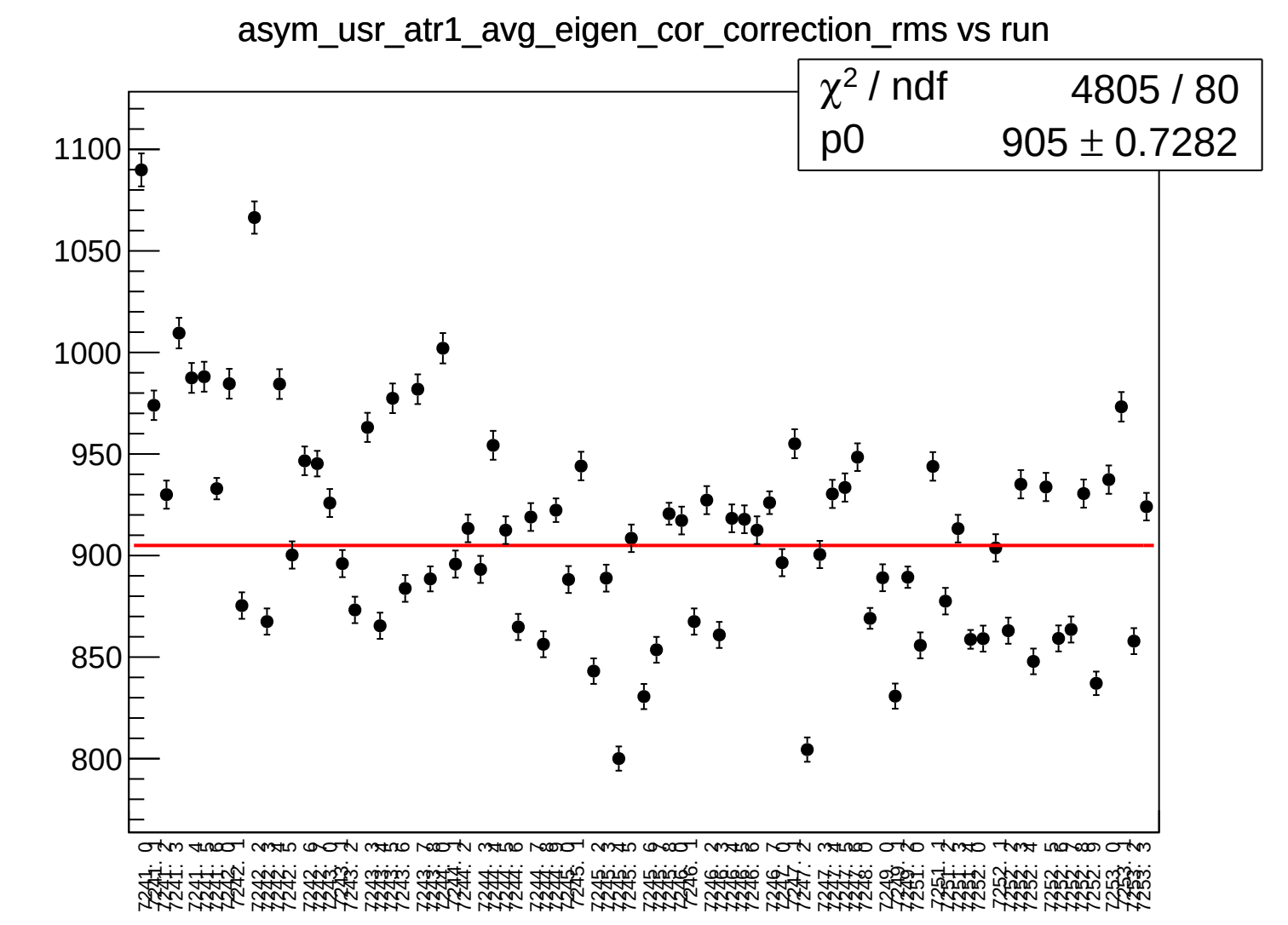

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 85.39 / 80
p0 2934 ± 1841
pull
Entries 81
Mean 2226
Std Dev 0

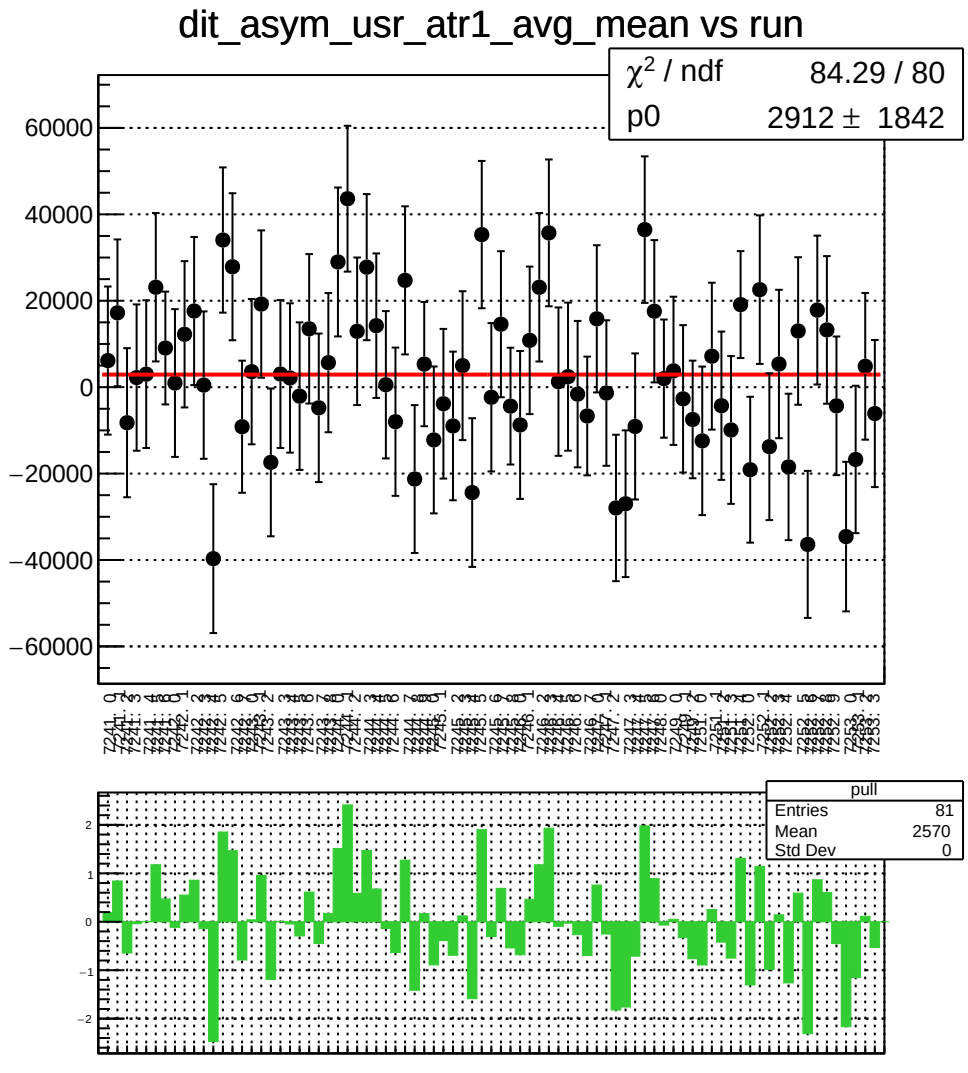

pull1D
Entries 81
Mean −0.002527
Std Dev 1.027

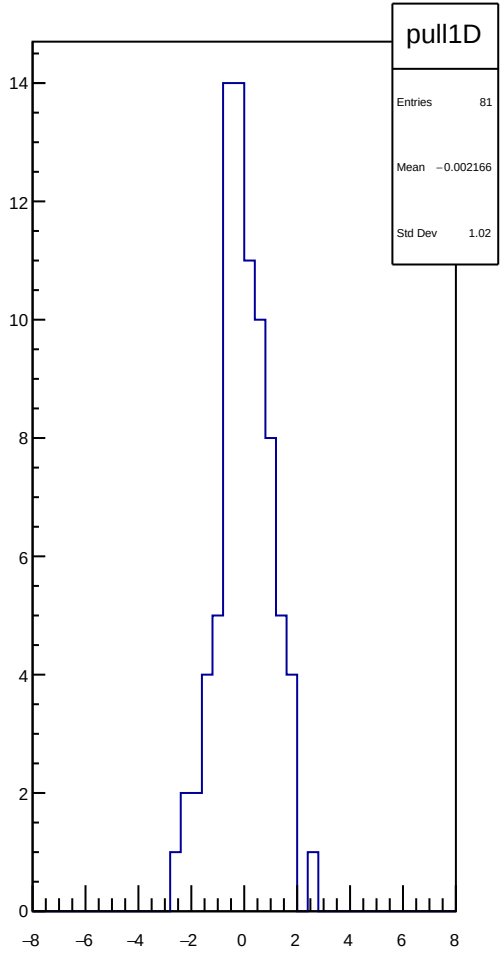

eigen_cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 92.5 / 80
p0 1620 ± 1.302
1660
1650
1640
1630
1620
1610
1600
1590
1580
1570

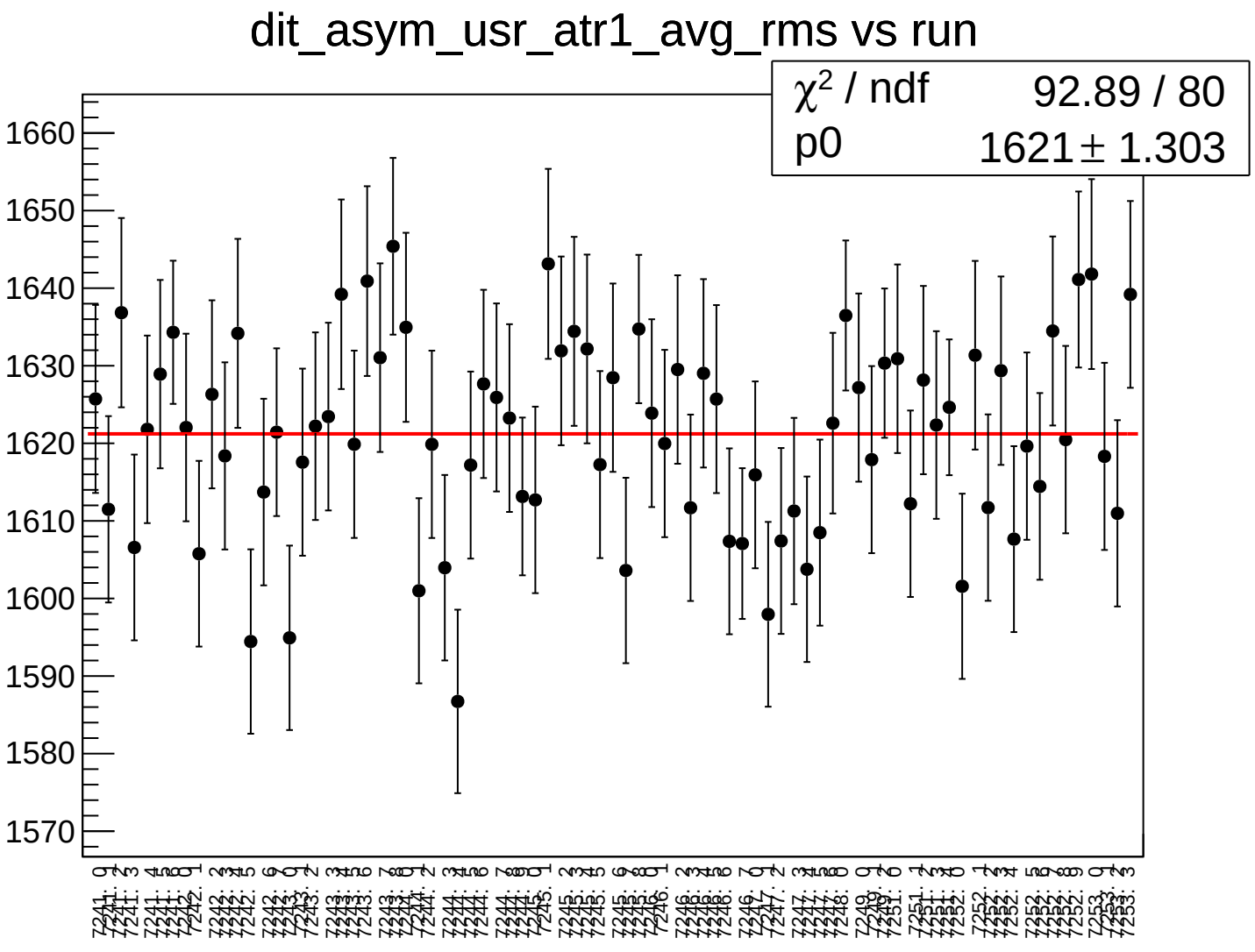

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
χ² / ndf 97.3 / 80
p0 −122.8 ± 1030
pull
Entries 81
Mean −97.3
Std Dev 0

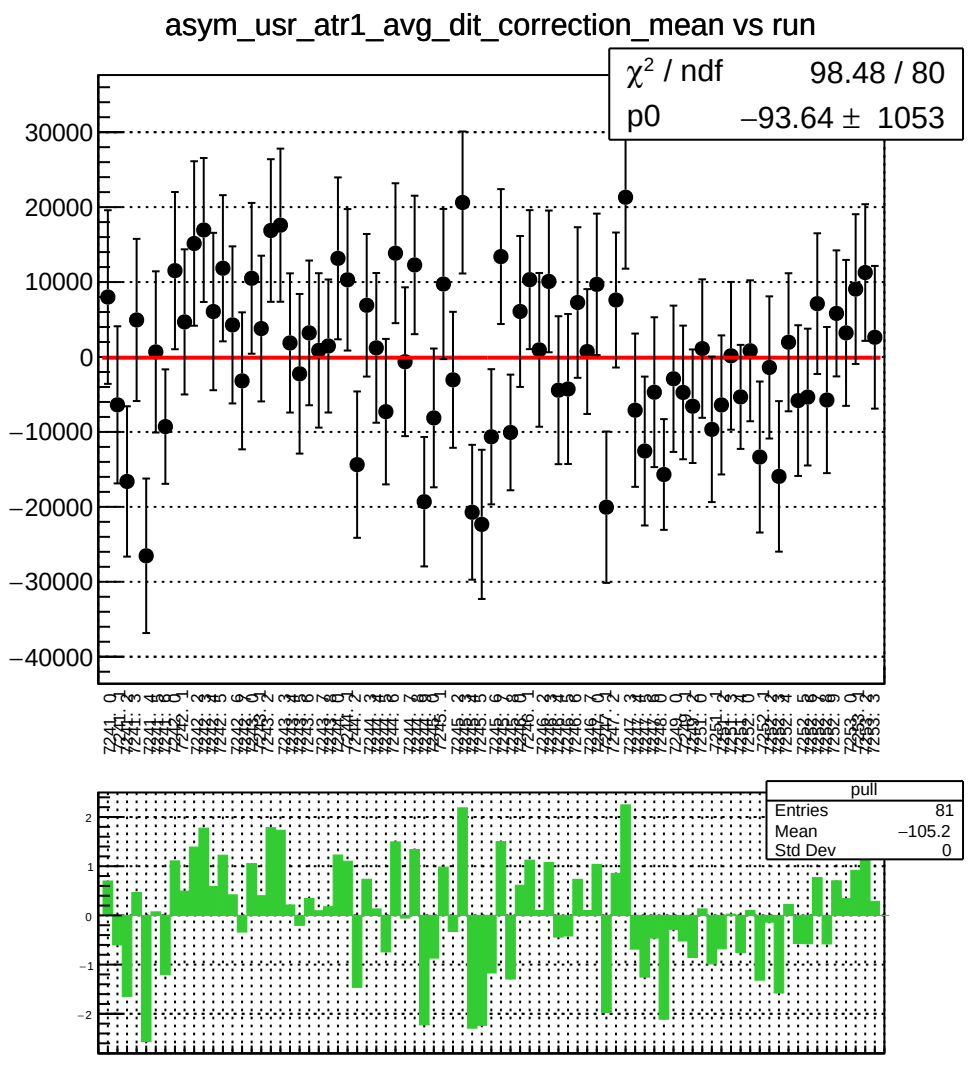

pull1D
Entries 81
Mean 0.02662
Std Dev 1.096

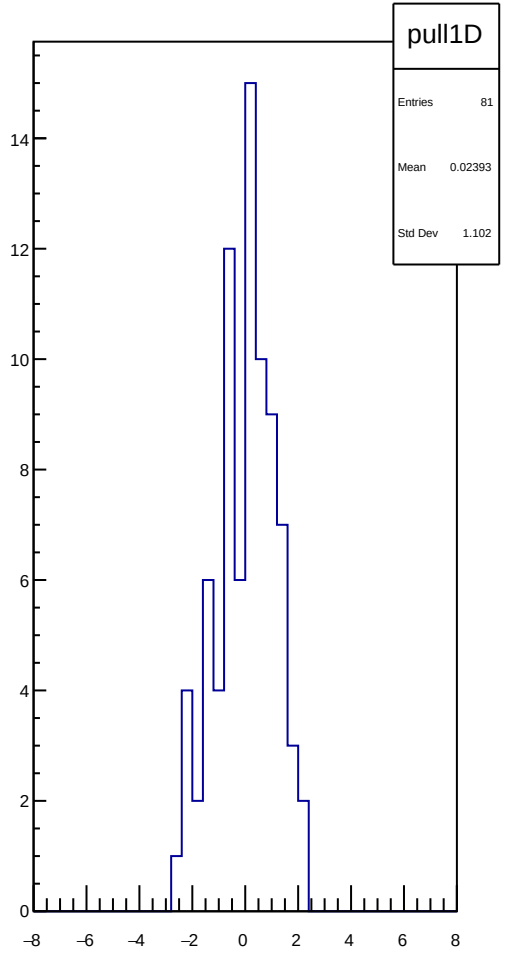

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 4805 / 80
p0 905 ± 0.7282
1100
1050
1000
950
900
850
800

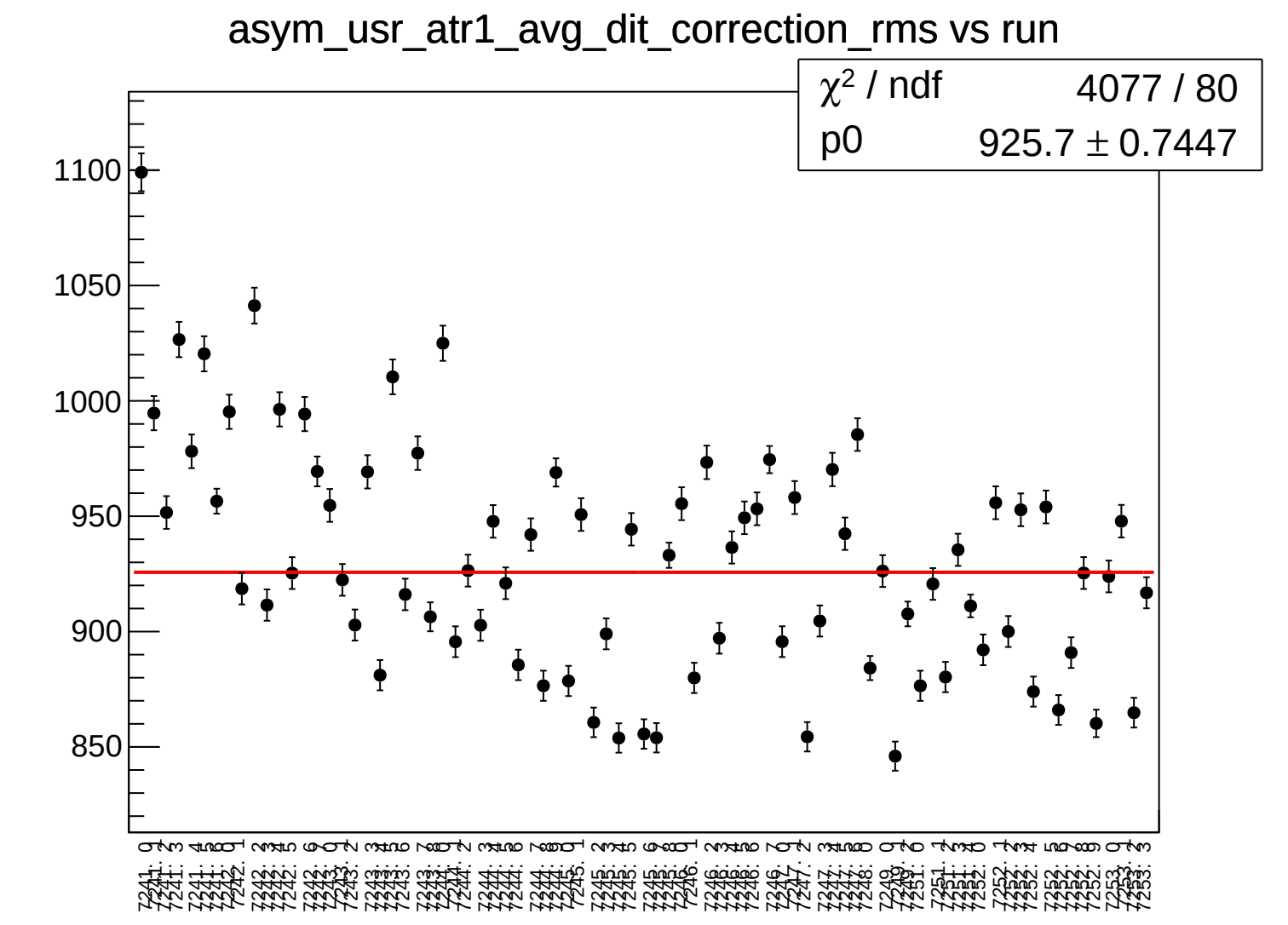

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 84.29 / 80
p0 2912 ± 1842
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean 2570
Std Dev 0
2
1
0
−1
−2

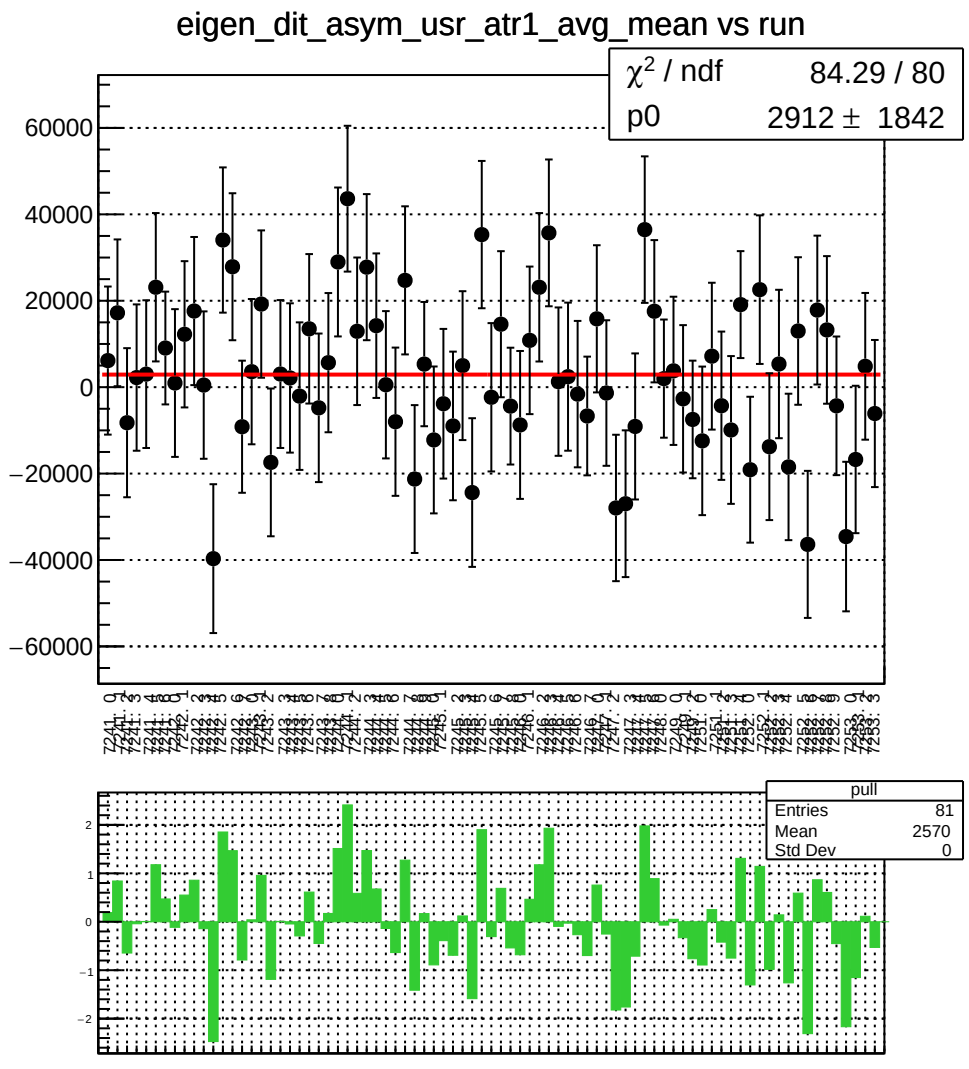

pull1D
Entries 81
Mean −0.002166
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

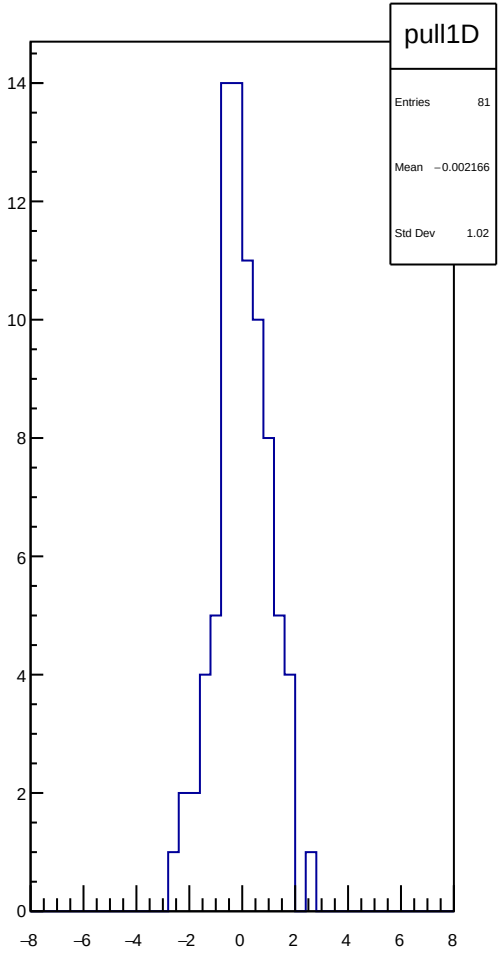

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 92.89 / 80
p0 1621 ± 1.303
1660
1650
1640
1630
1620
1610
1600
1590
1580
1570

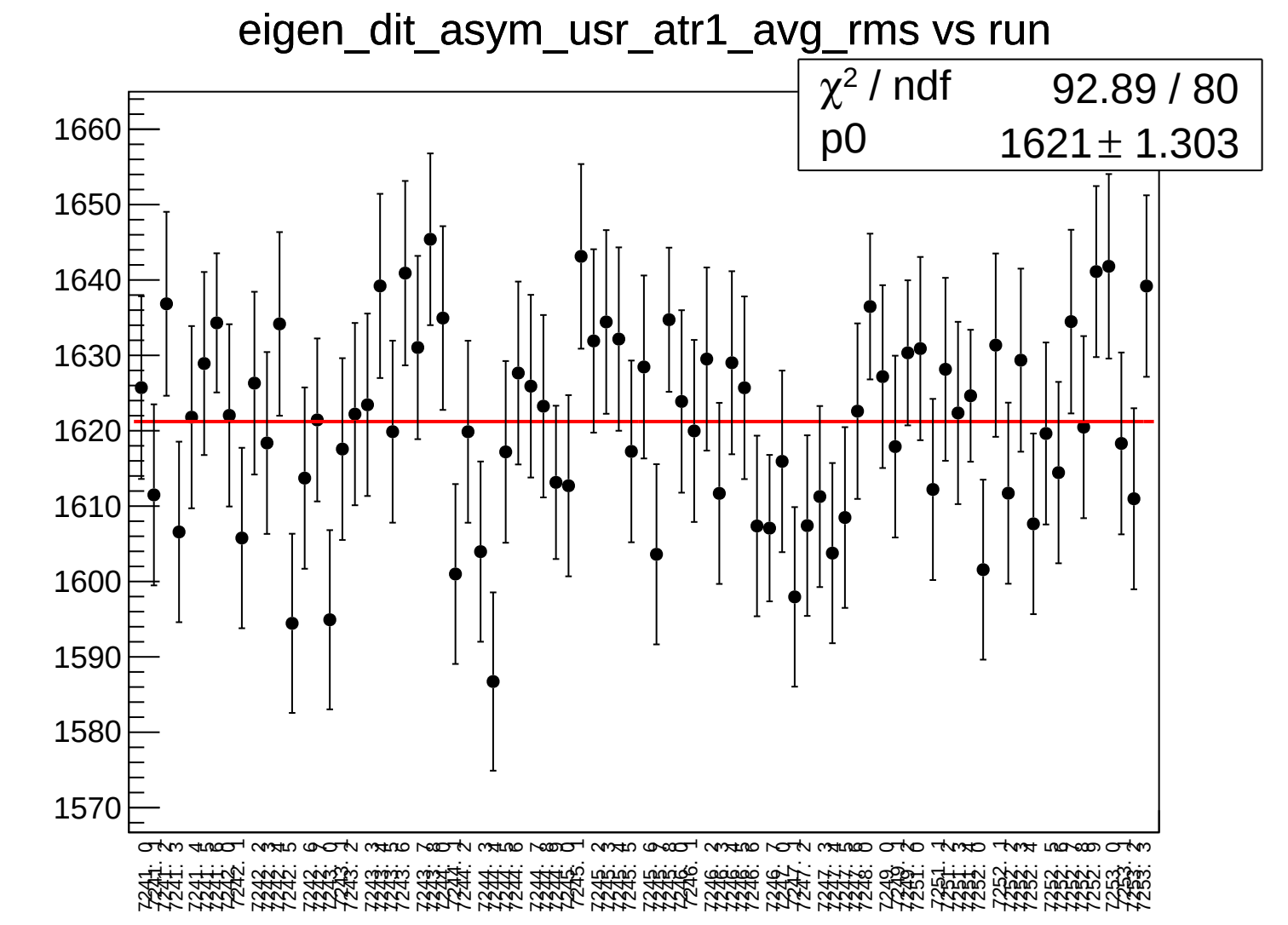

asym_usr_atr1_avg_dit_correction_mean vs run
χ² / ndf 98.48 / 80
p0 −93.64 ± 1053
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 81
Mean −105.2
Std Dev 0
2
1
0
−1
−2

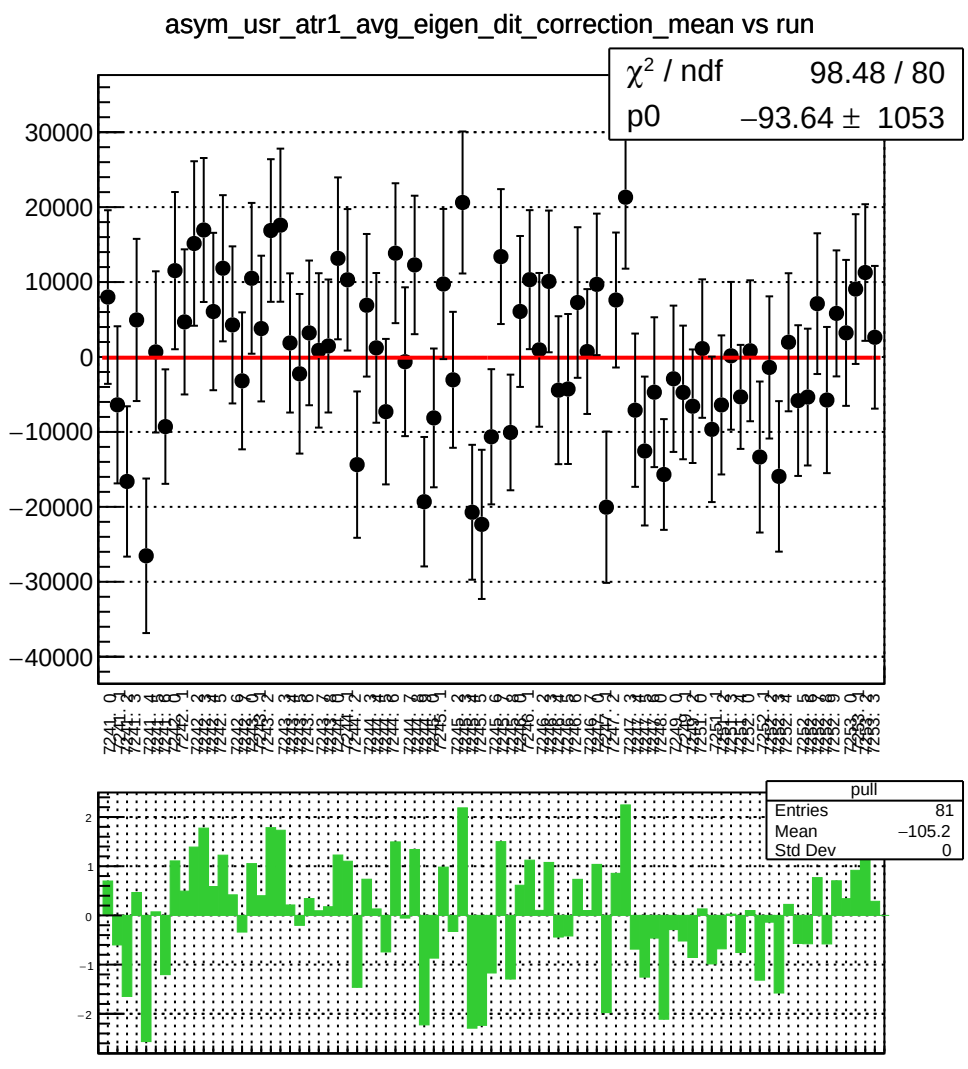

pull1D
Entries 81
Mean 0.02393
Std Dev 1.102
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

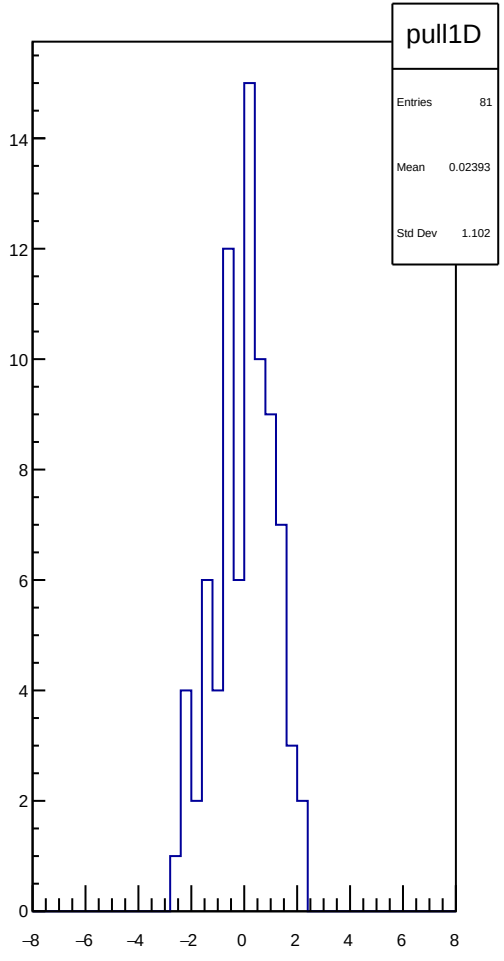

asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 4077 / 80
p0 925.7 ± 0.7447
1100
1050
1000
950
900
850

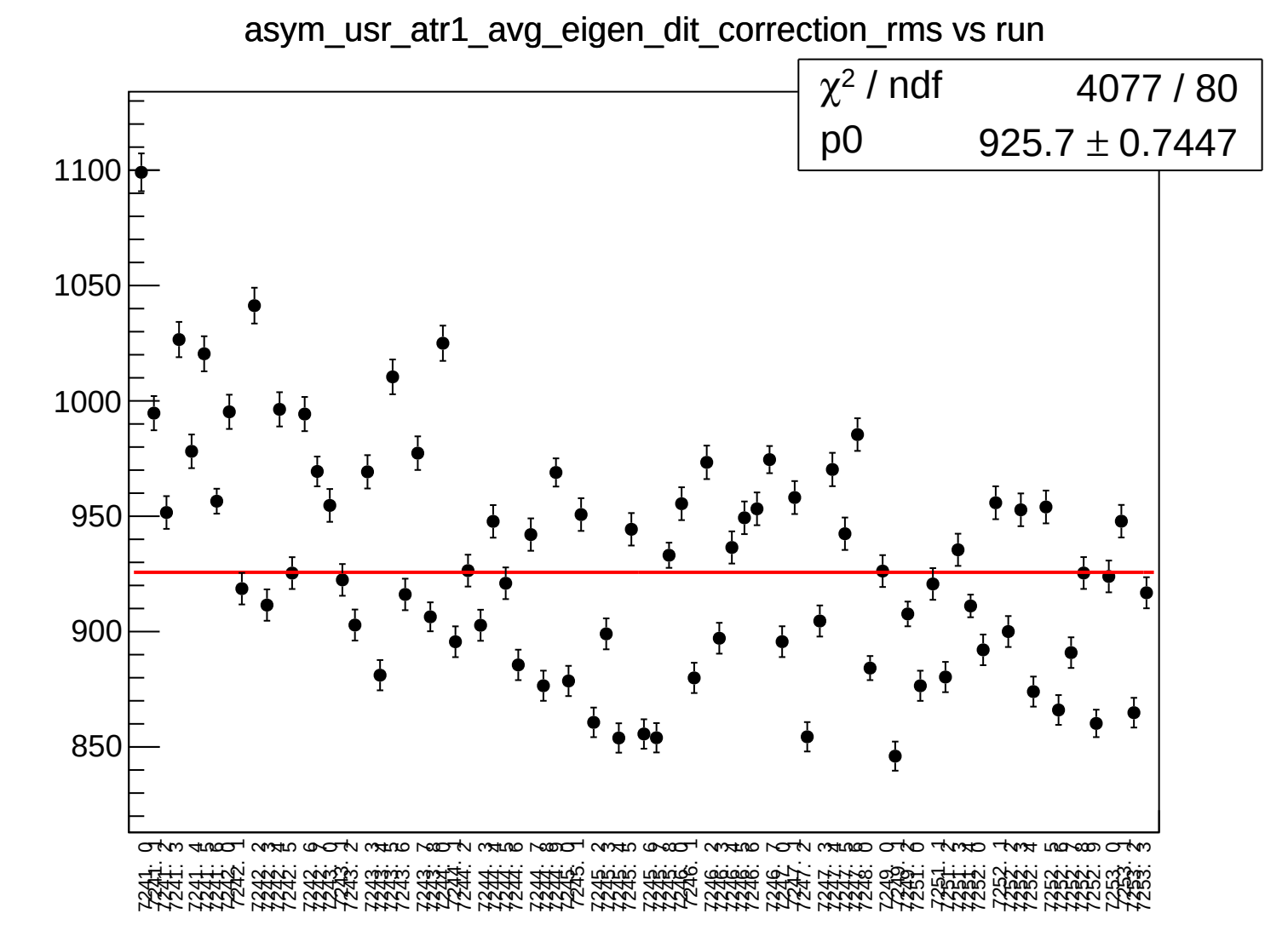

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 84.29 / 80
p0 2912 ± 1842
pull
Entries 81
Mean 2570
Std Dev 0

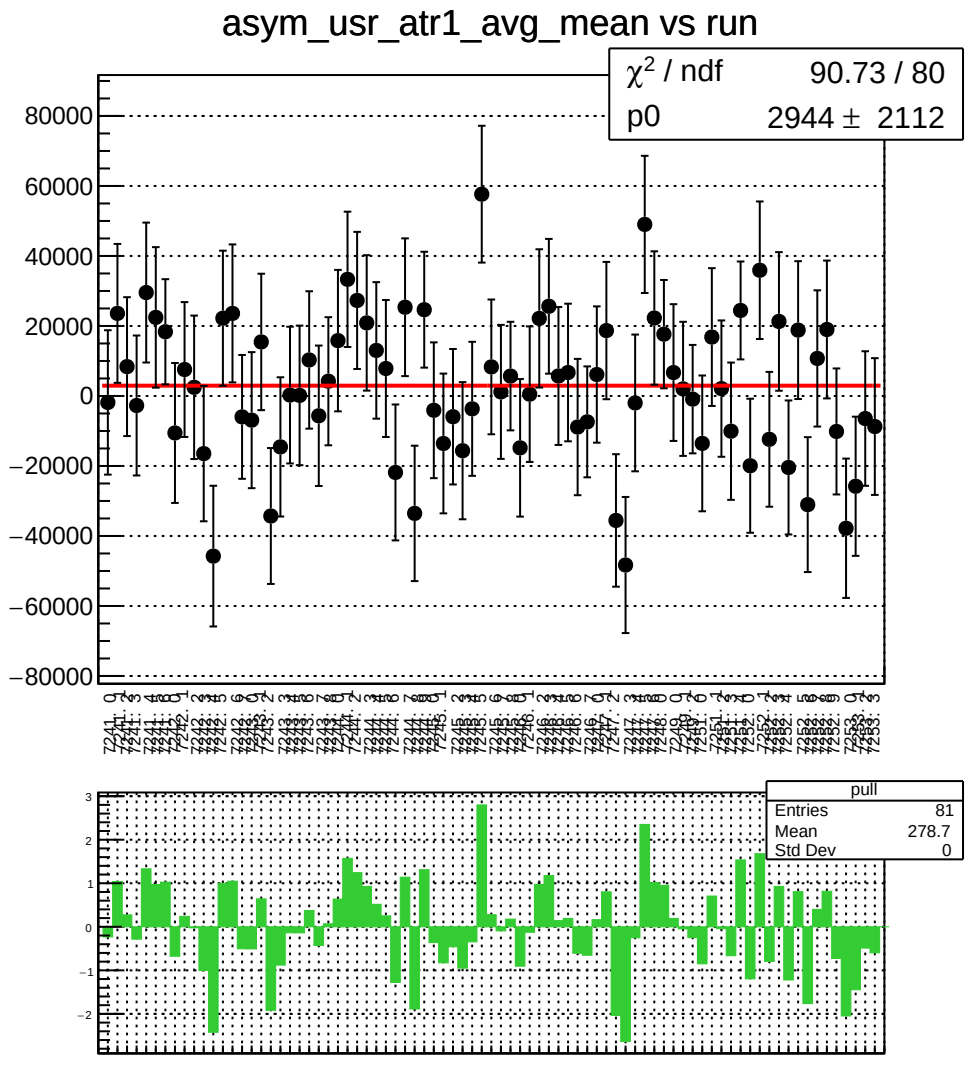

pull1D
Entries 81
Mean −0.002166
Std Dev 1.02

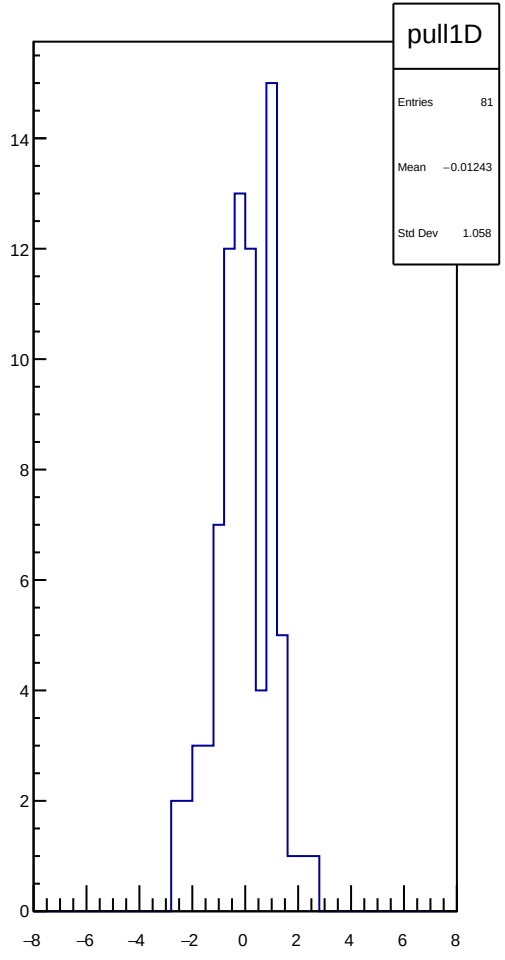

eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 92.89 / 80
p0 1621 ± 1.303
1660
1650
1640
1630
1620
1610
1600
1590
1580
1570

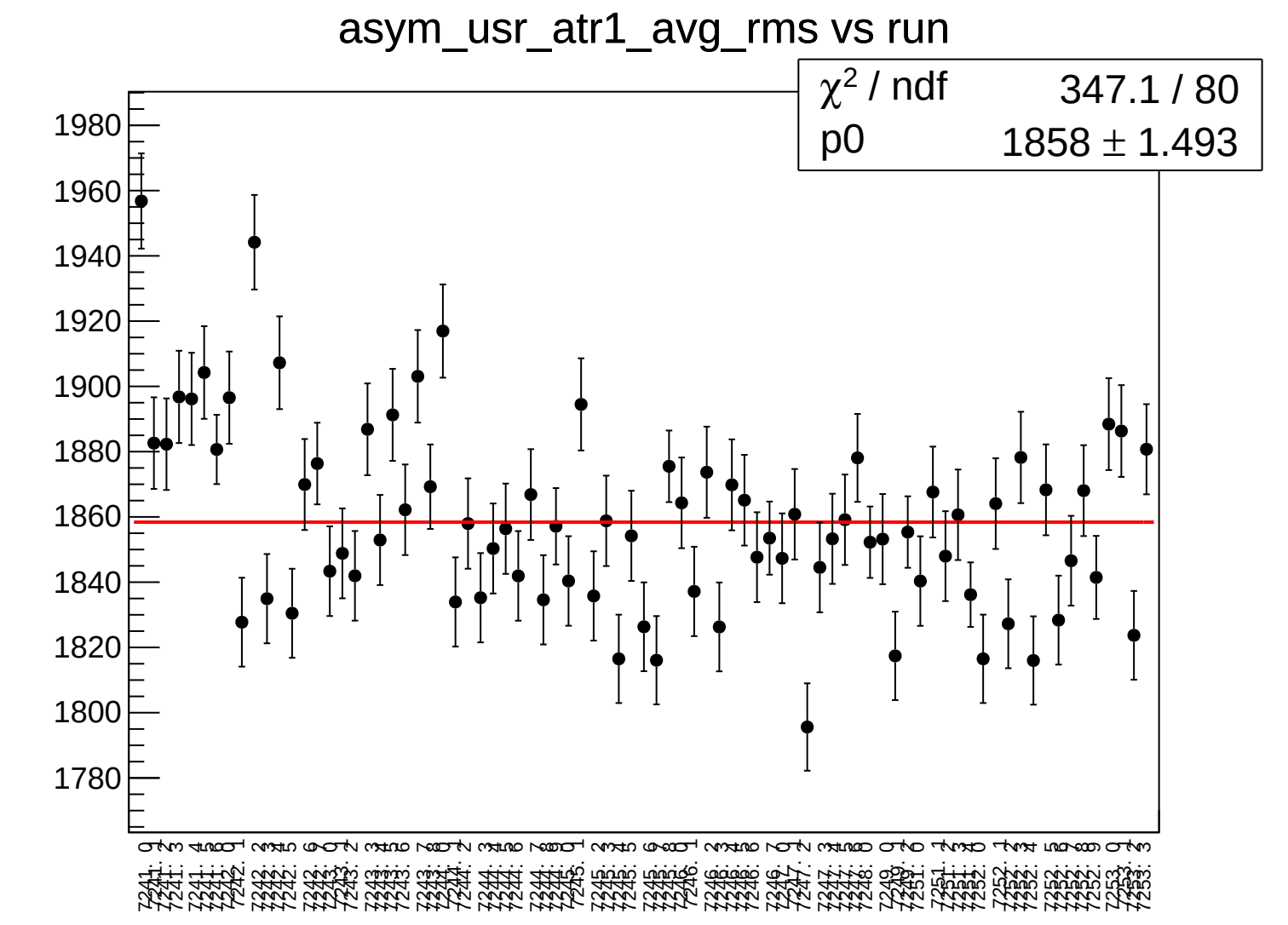

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
χ² / ndf 98.48 / 80
p0 −93.64 ± 1053
pull
Entries 81
Mean −105.2
Std Dev 0

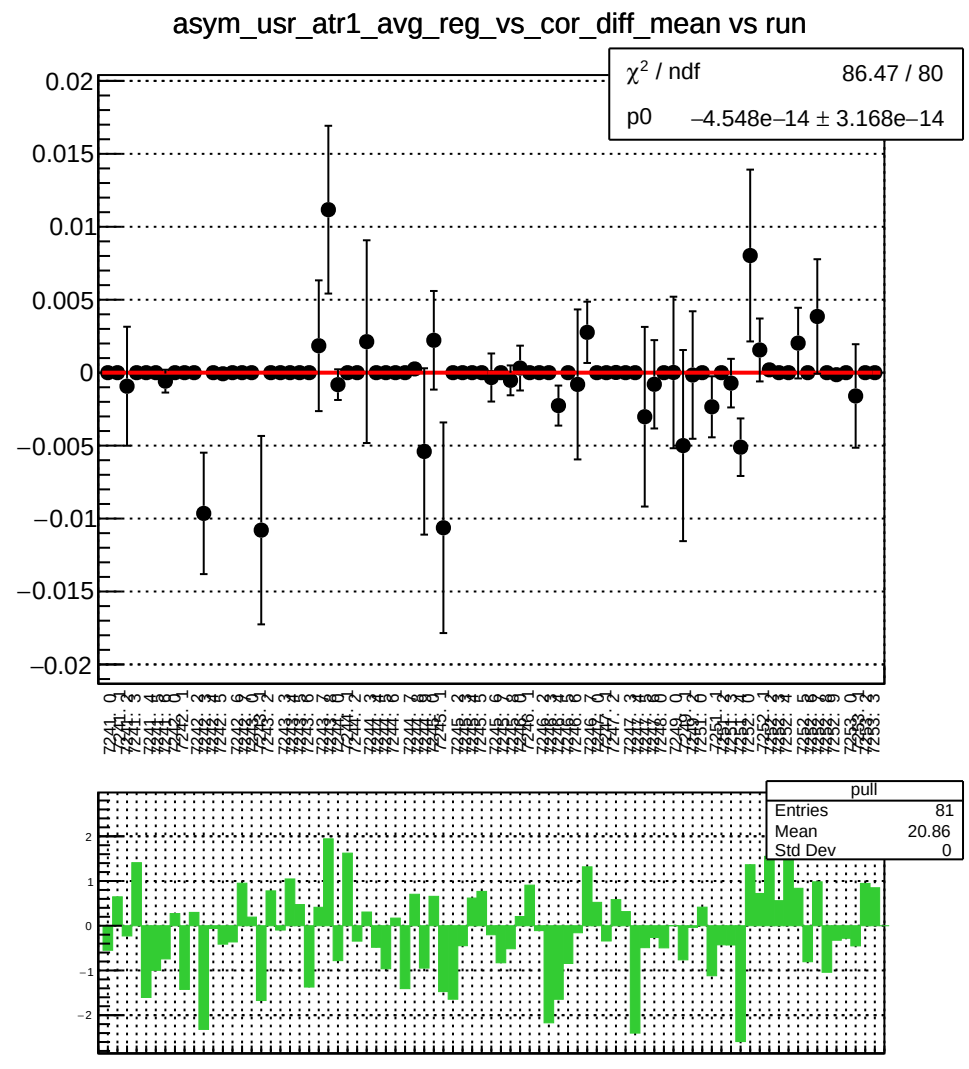

pull1D
Entries 81
Mean 0.02393
Std Dev 1.102

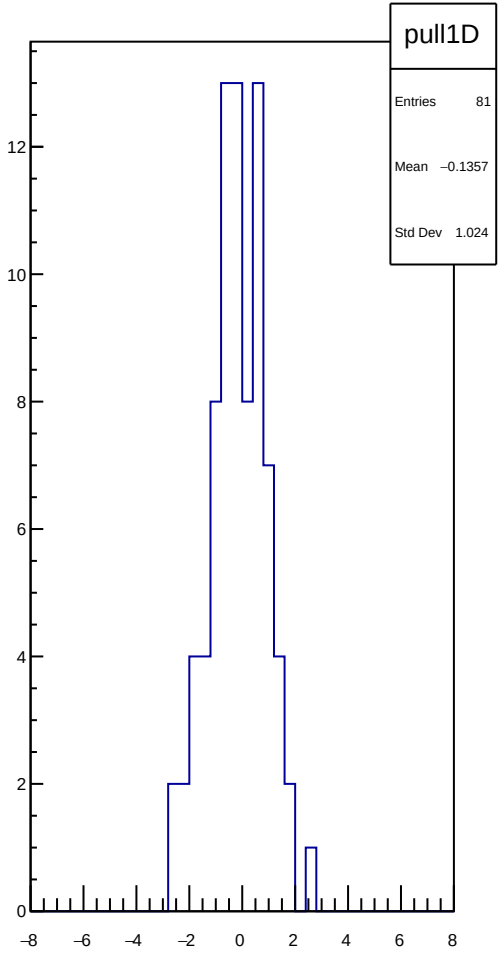

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 4077 / 80
p0 925.7 ± 0.7447
1100
1050
1000
950
900
850

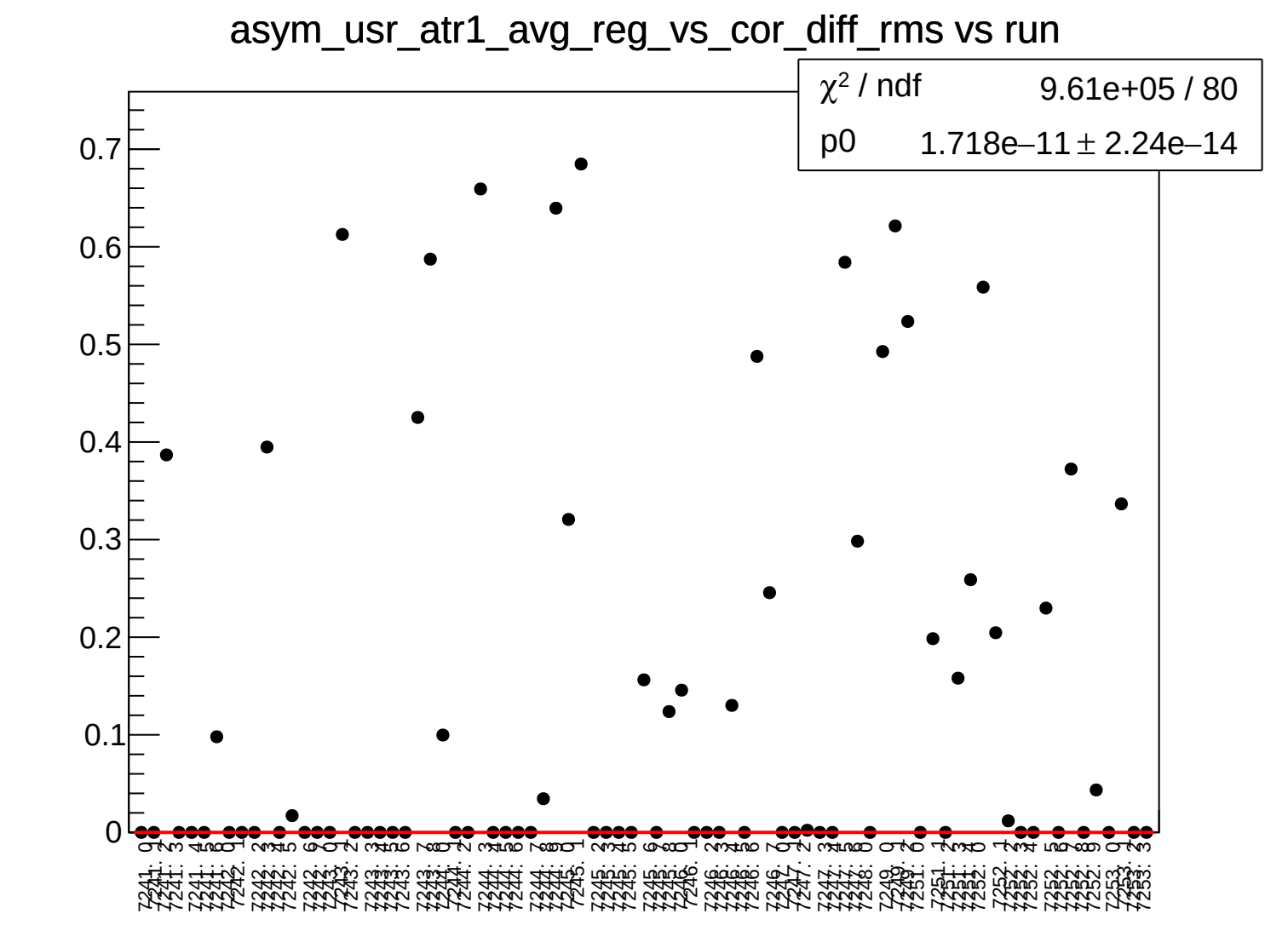

asym_usr_atr1_avg_mean vs run
χ² / ndf 90.73 / 80
p0 2944 ± 2112
pull
Entries 81
Mean 278.7
Std Dev 0

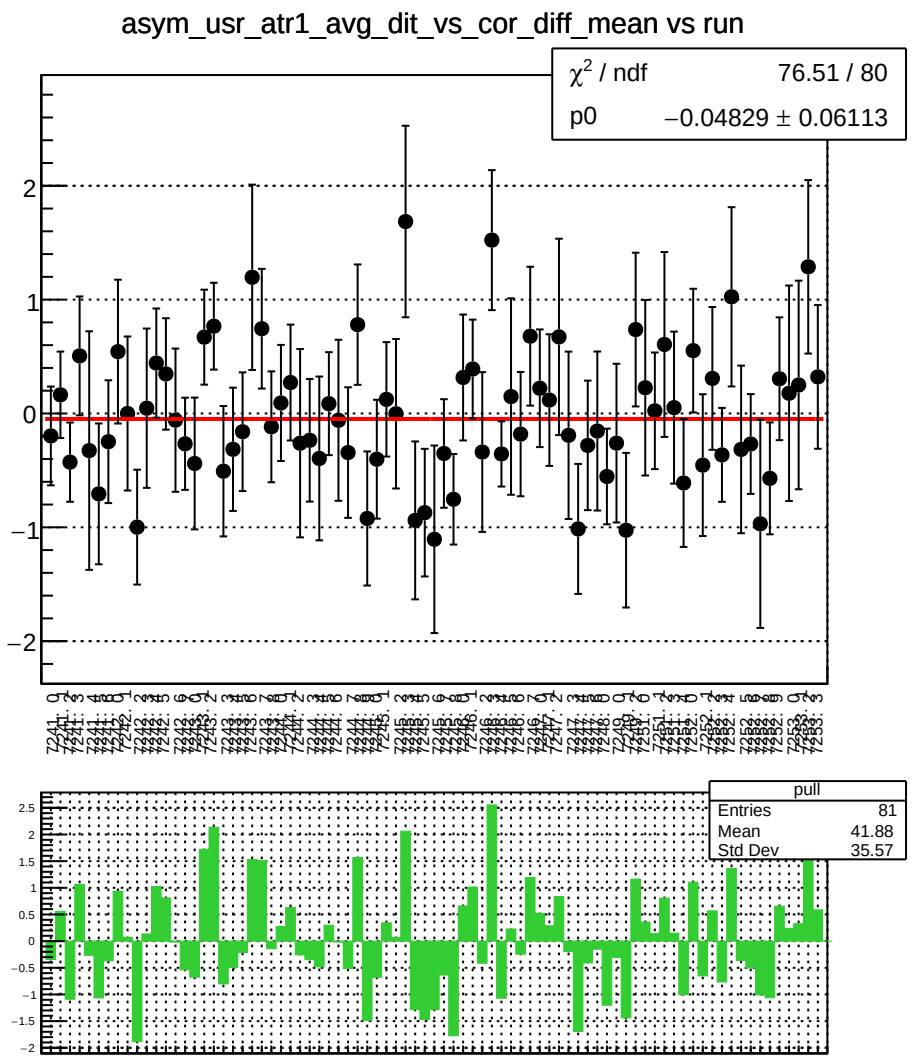

pull1D
Entries 81
Mean −0.01243
Std Dev 1.058

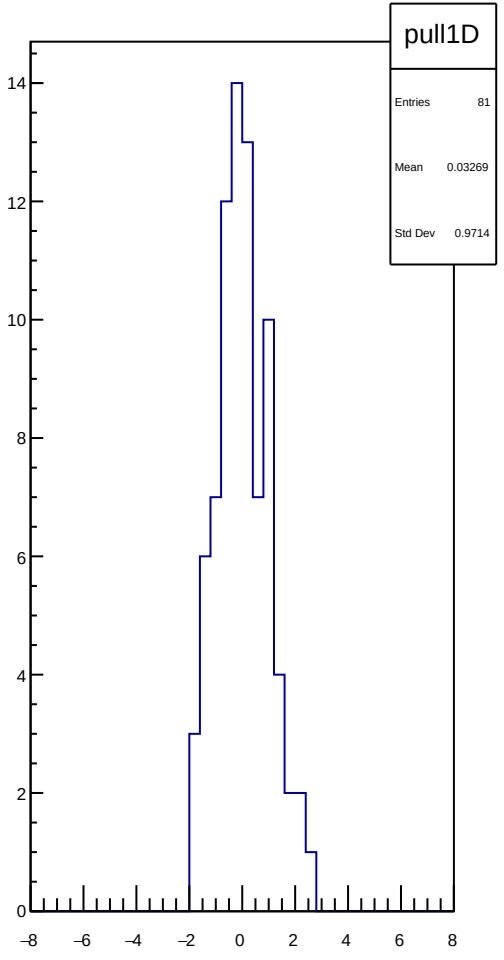

asym_usr_atr1_avg_rms vs run
χ² / ndf 347.1 / 80
p0 1858 ± 1.493
1980
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780

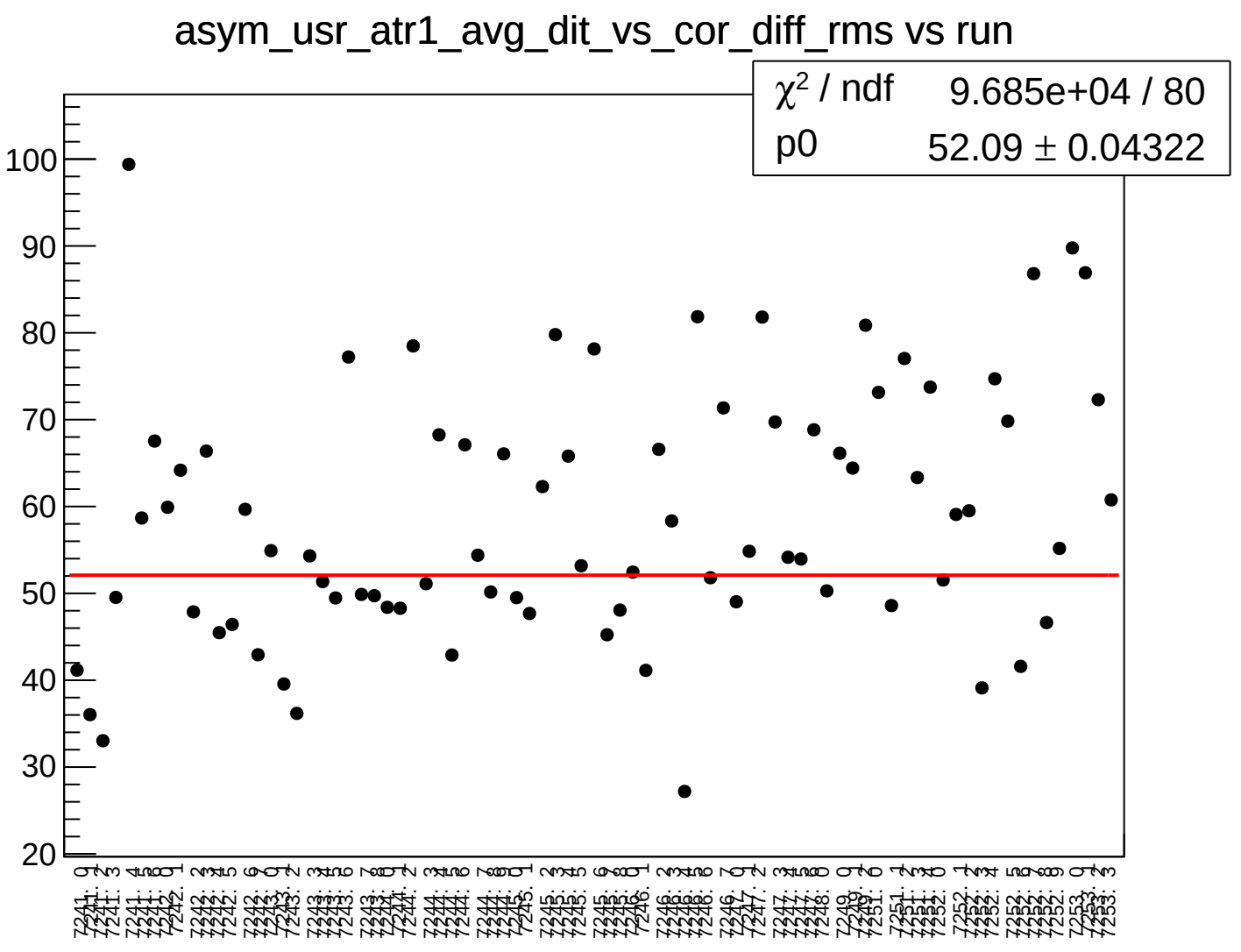

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 86.47 / 80
p0 −4.548e−14 ± 3.168e−14
pull
Entries 81
Mean 20.86
Std Dev 0

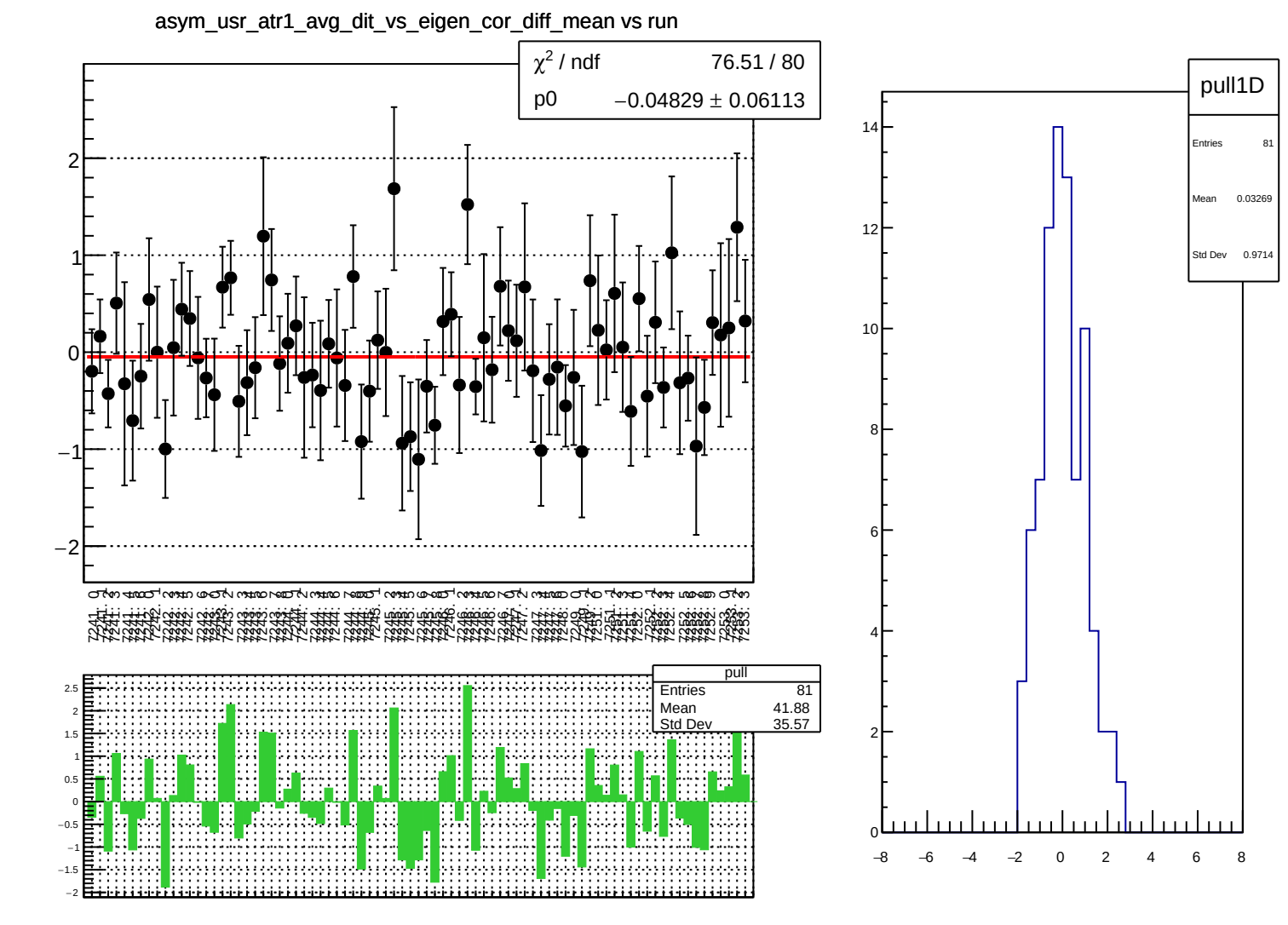

pull1D
Entries 81
Mean −0.1357
Std Dev 1.024

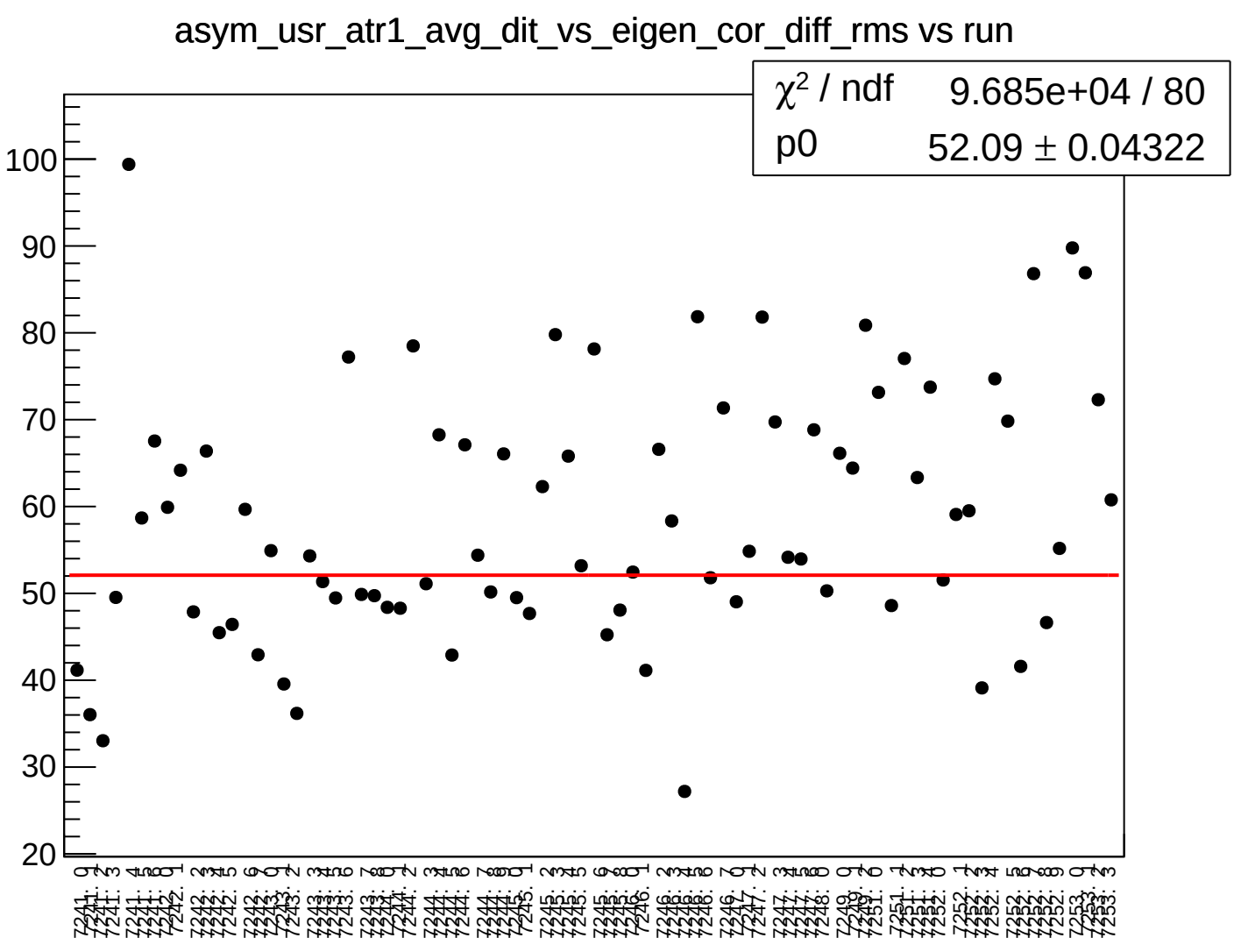

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.61e+05 / 80
p0 1.718e−11 ± 2.24e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

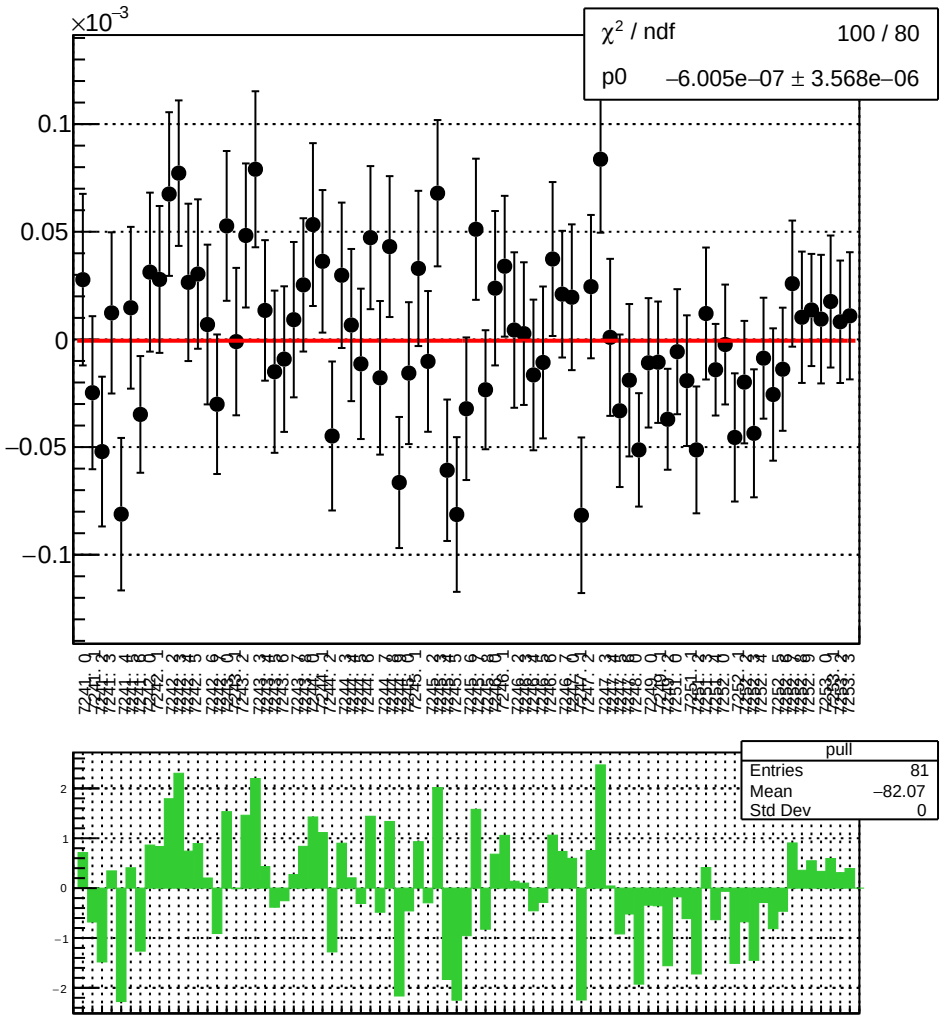

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 76.51 / 80
p0 −0.04829 ± 0.06113
pull
Entries 81
Mean 41.88
Std Dev 35.57

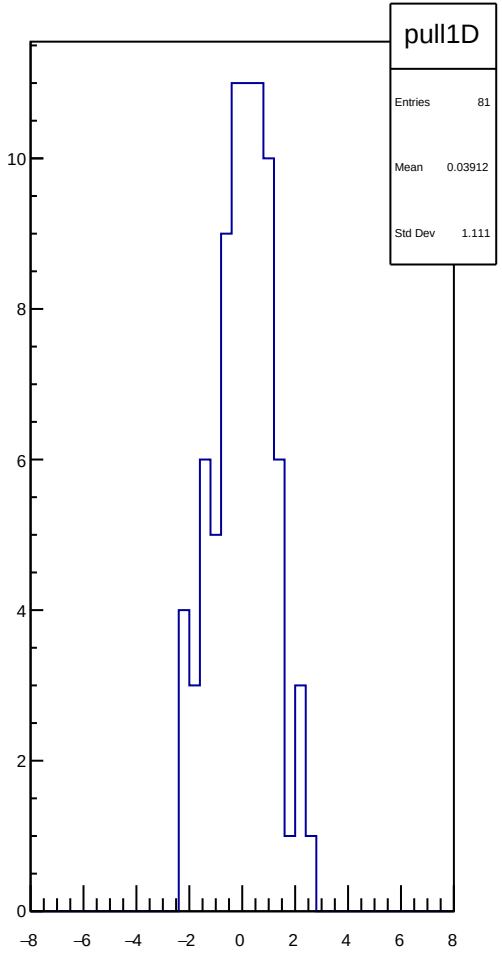

pull1D
Entries 81
Mean 0.03269
Std Dev 0.9714

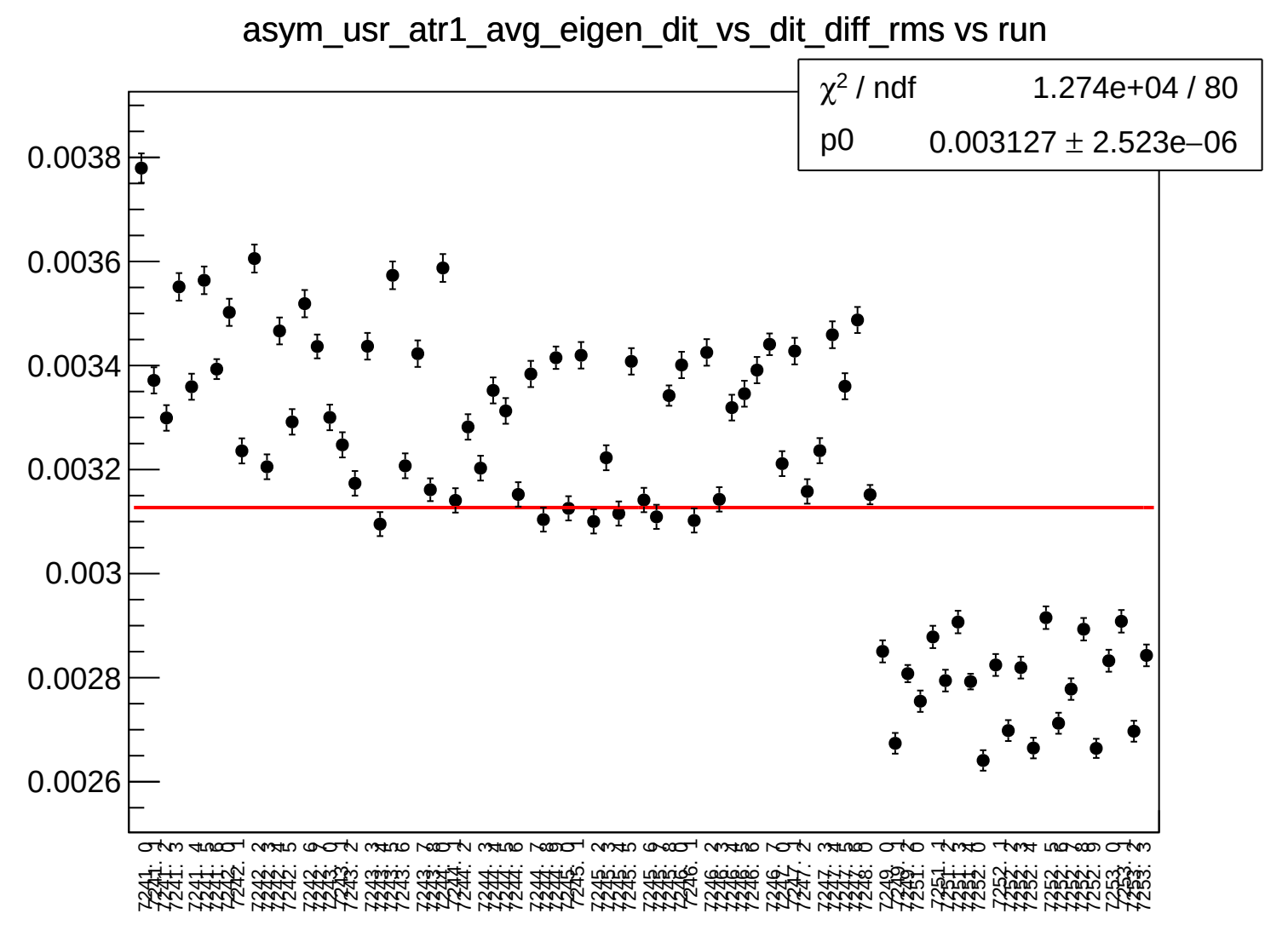

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9.685e+04 / 80
p0 52.09 ± 0.04322
100
90
80
70
60
50
40
30
20

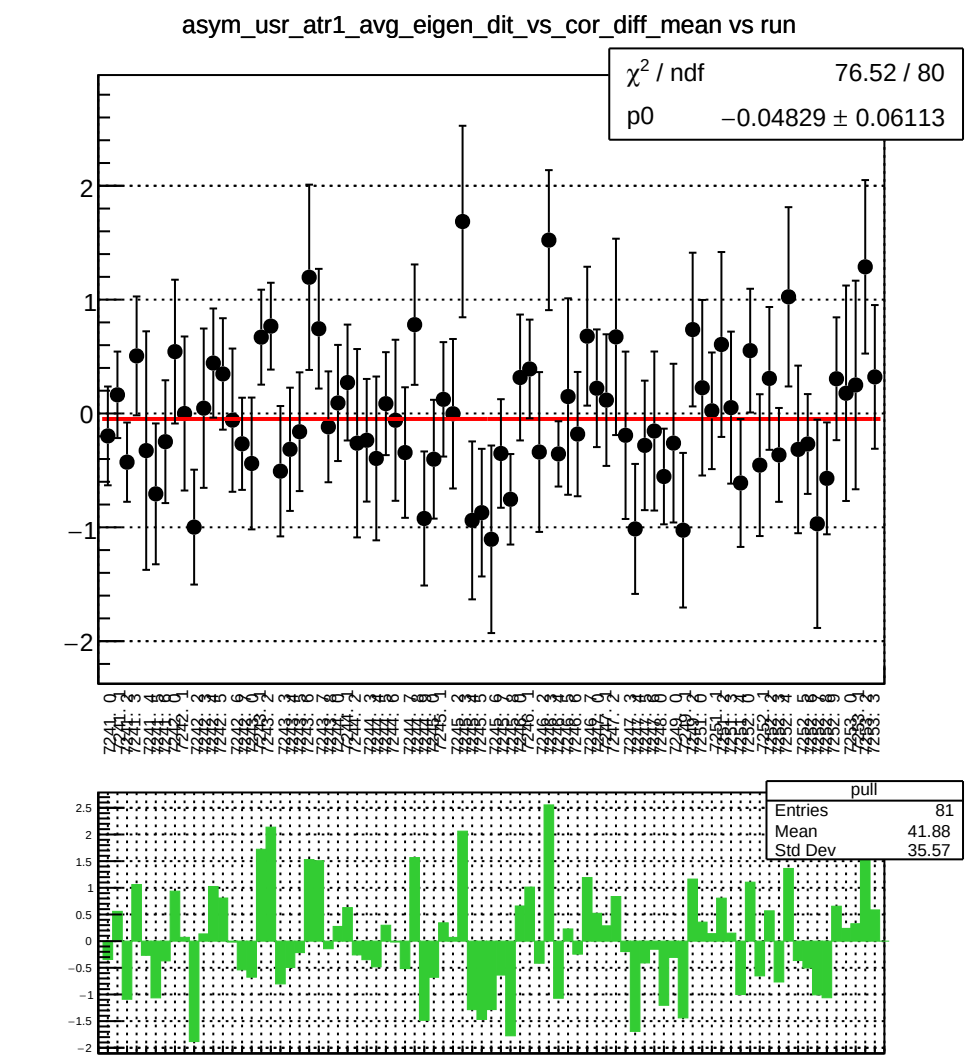

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.51 / 80
p0 −0.04829 ± 0.06113
pull
Entries 81
Mean 41.88
Std Dev 35.57
pull1D
Entries 81
Mean 0.03269
Std Dev 0.9714

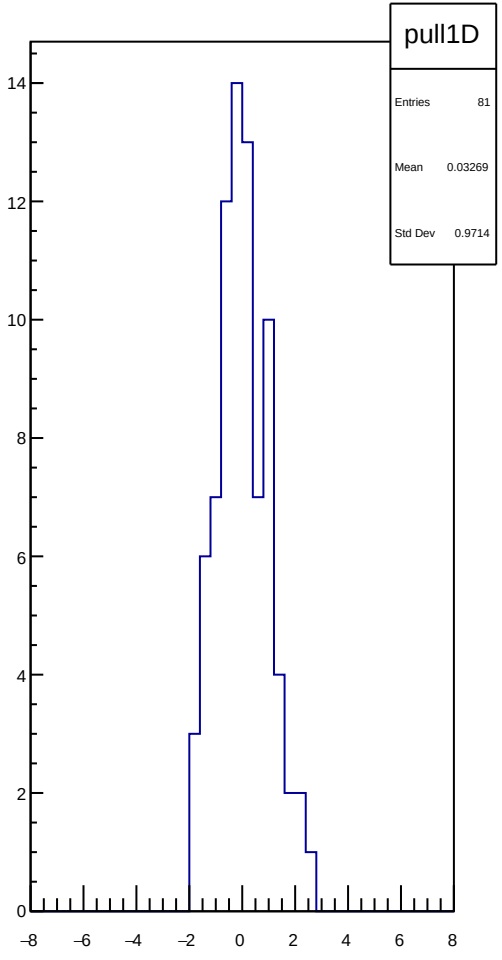

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.685e+04 / 80
p0 52.09 ± 0.04322
100
90
80
70
60
50
40
30
20

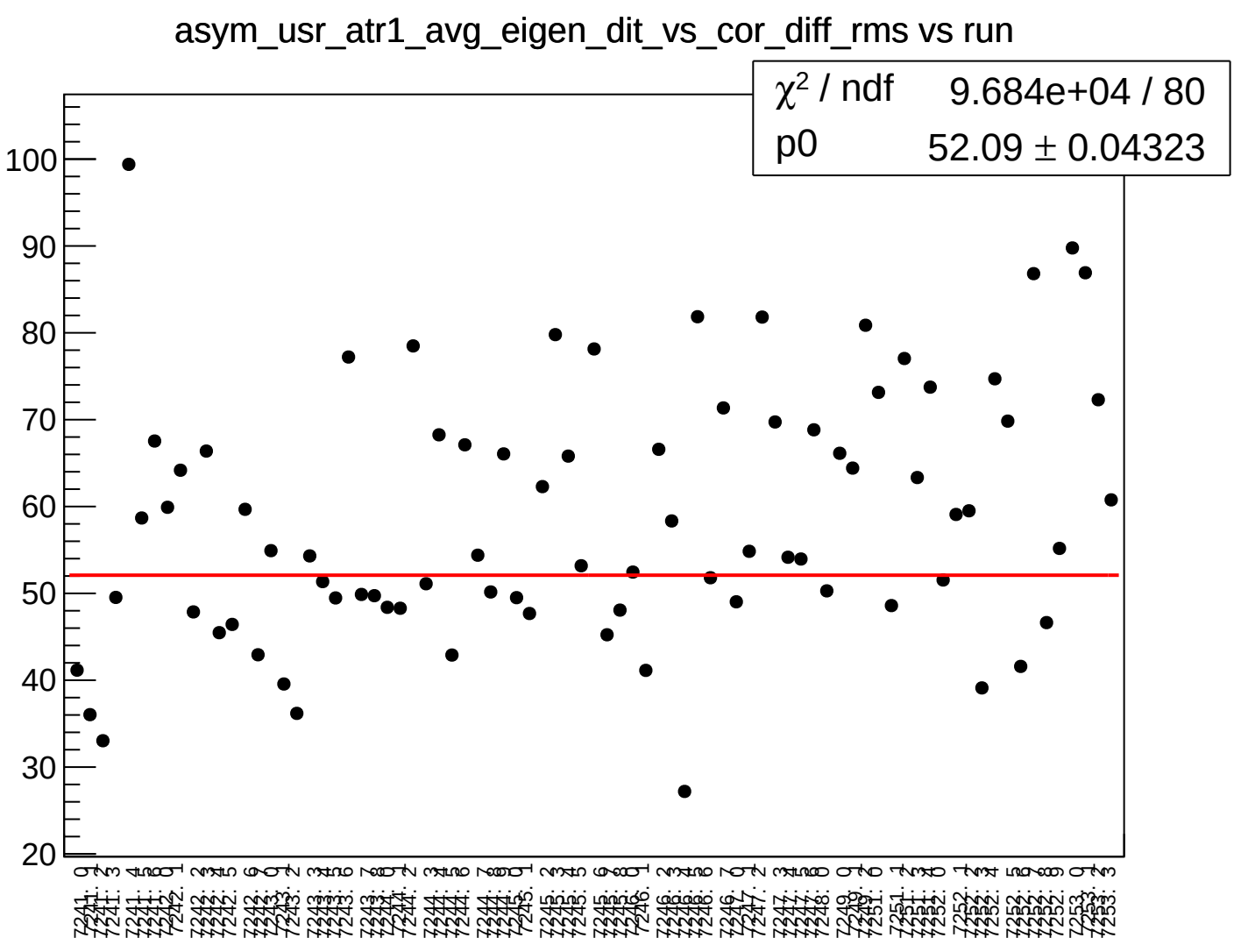

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100 / 80
p0 −6.005e−07 ± 3.568e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 81
Mean −82.07
Std Dev 0
2
1
0
−1
−2

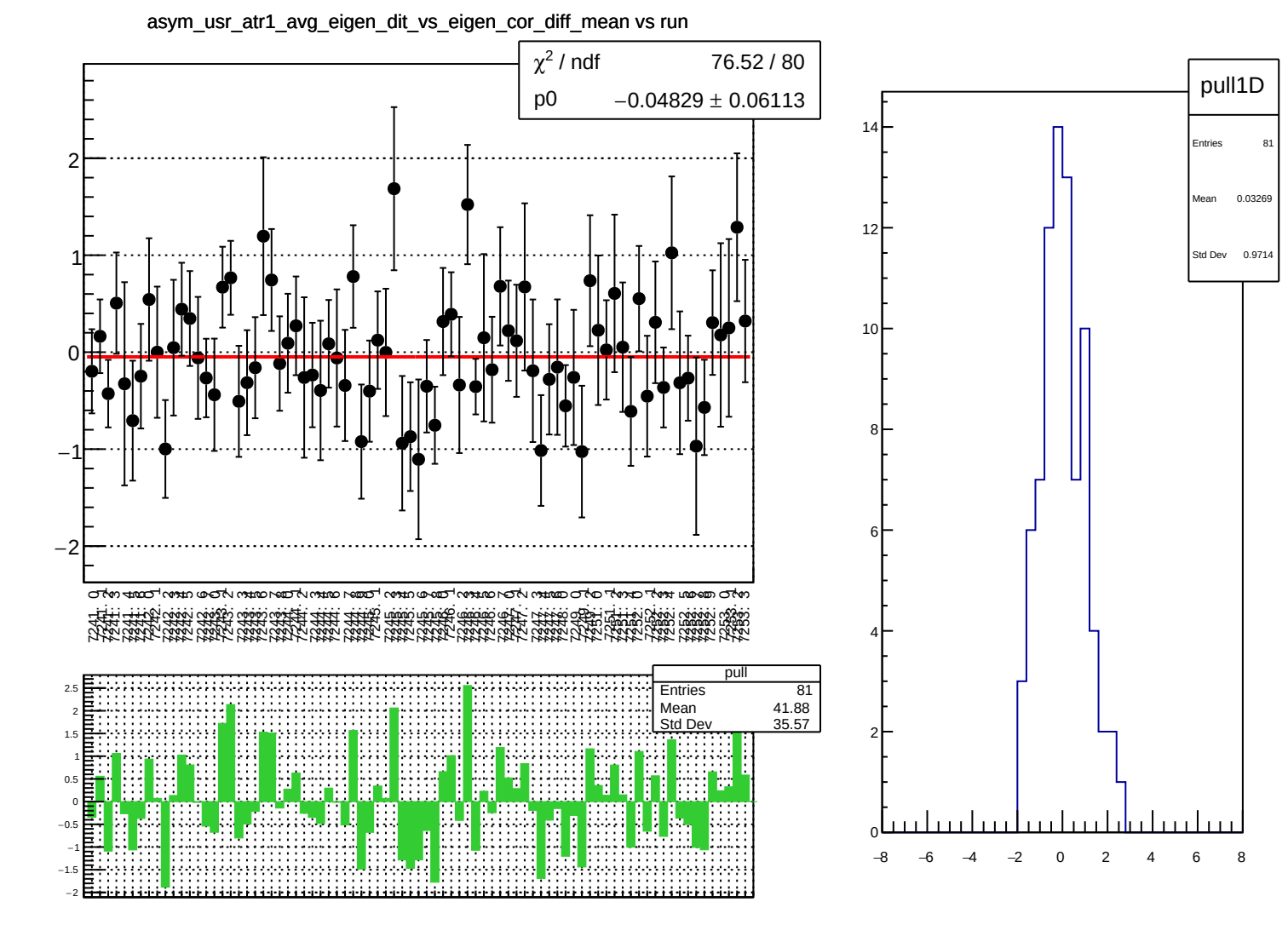

pull1D
Entries 81
Mean 0.03912
Std Dev 1.111
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

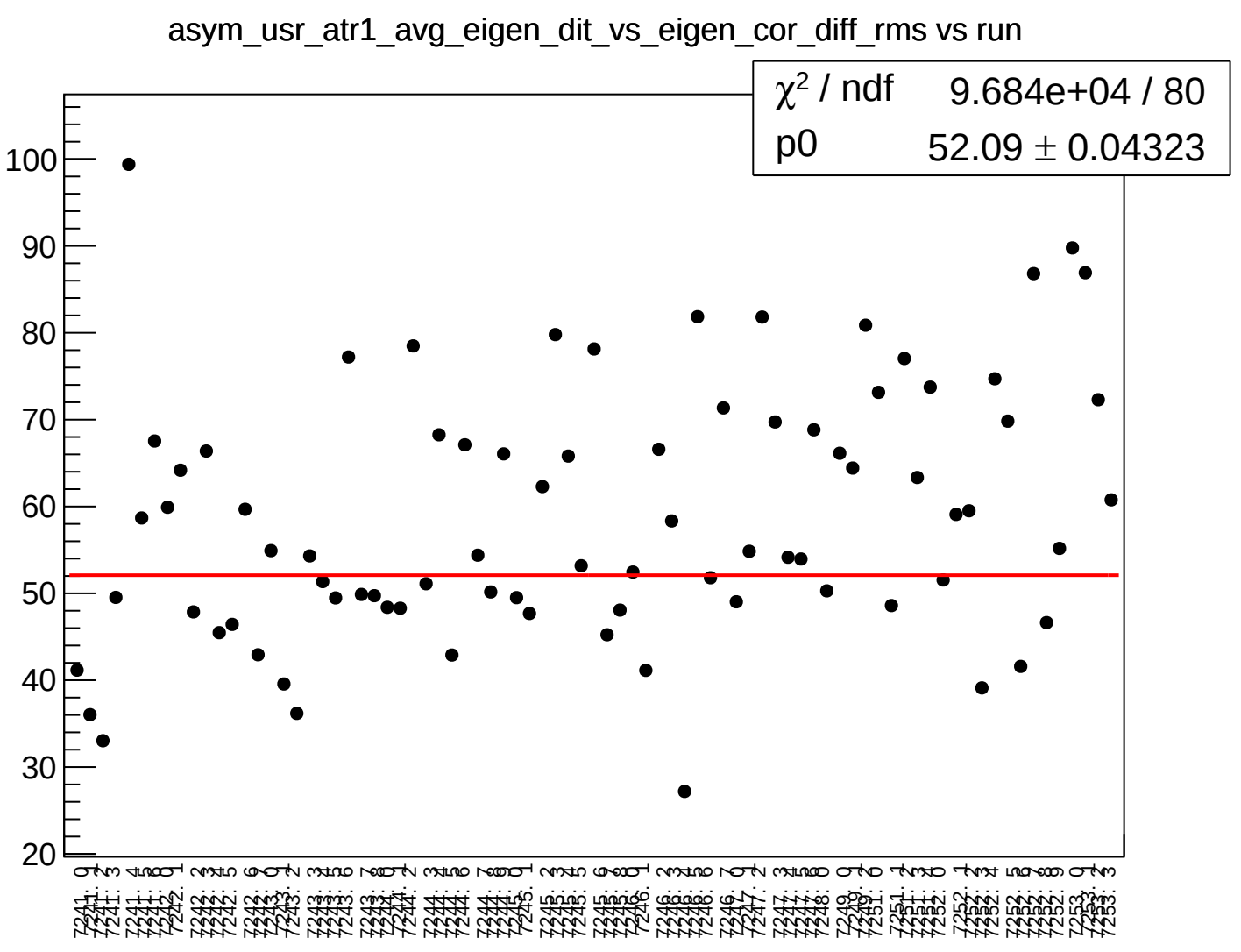

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.274e+04 / 80
p0 0.003127 ± 2.523e−06
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

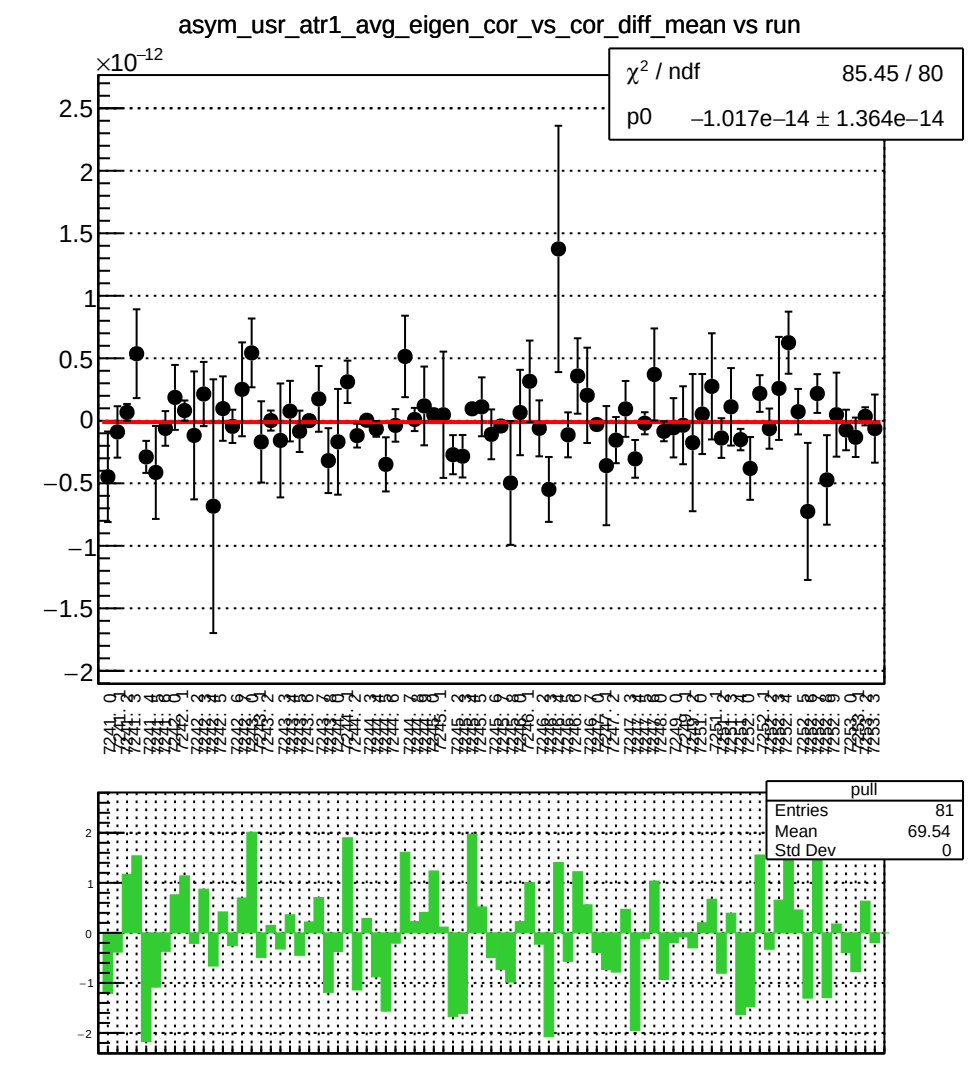

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.52 / 80
p0 −0.04829 ± 0.06113
pull
Entries 81
Mean 41.88
Std Dev 35.57

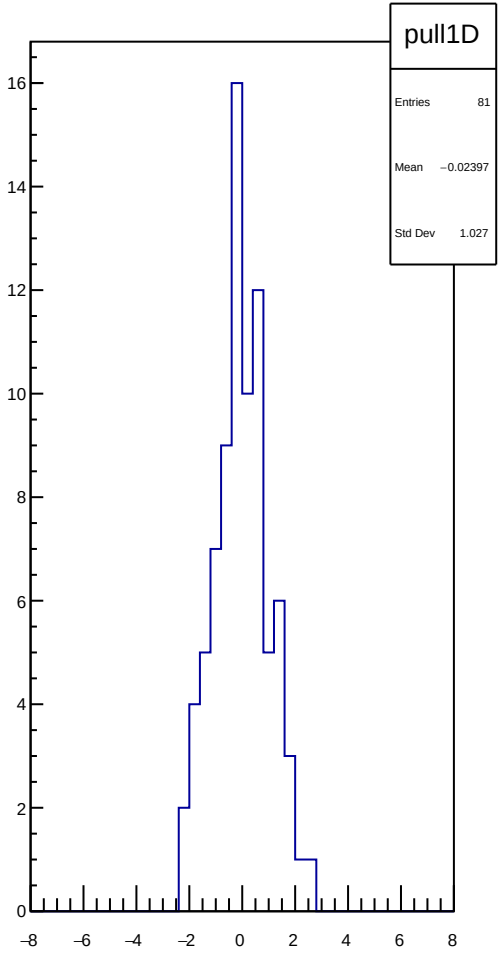

pull1D
Entries 81
Mean 0.03269
Std Dev 0.9714

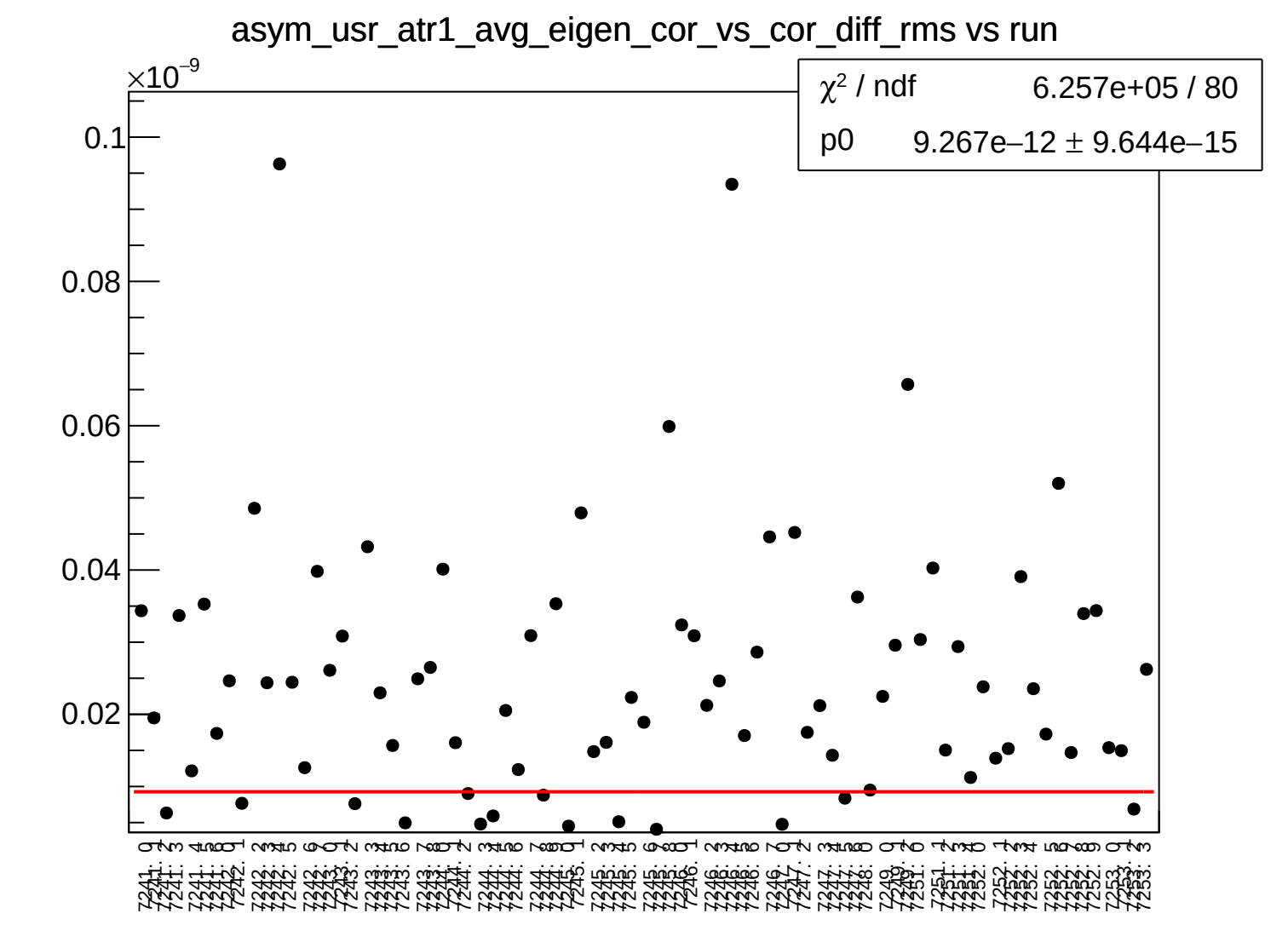

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.684e+04 / 80
p0 52.09 ± 0.04323
100
90
80
70
60
50
40
30
20

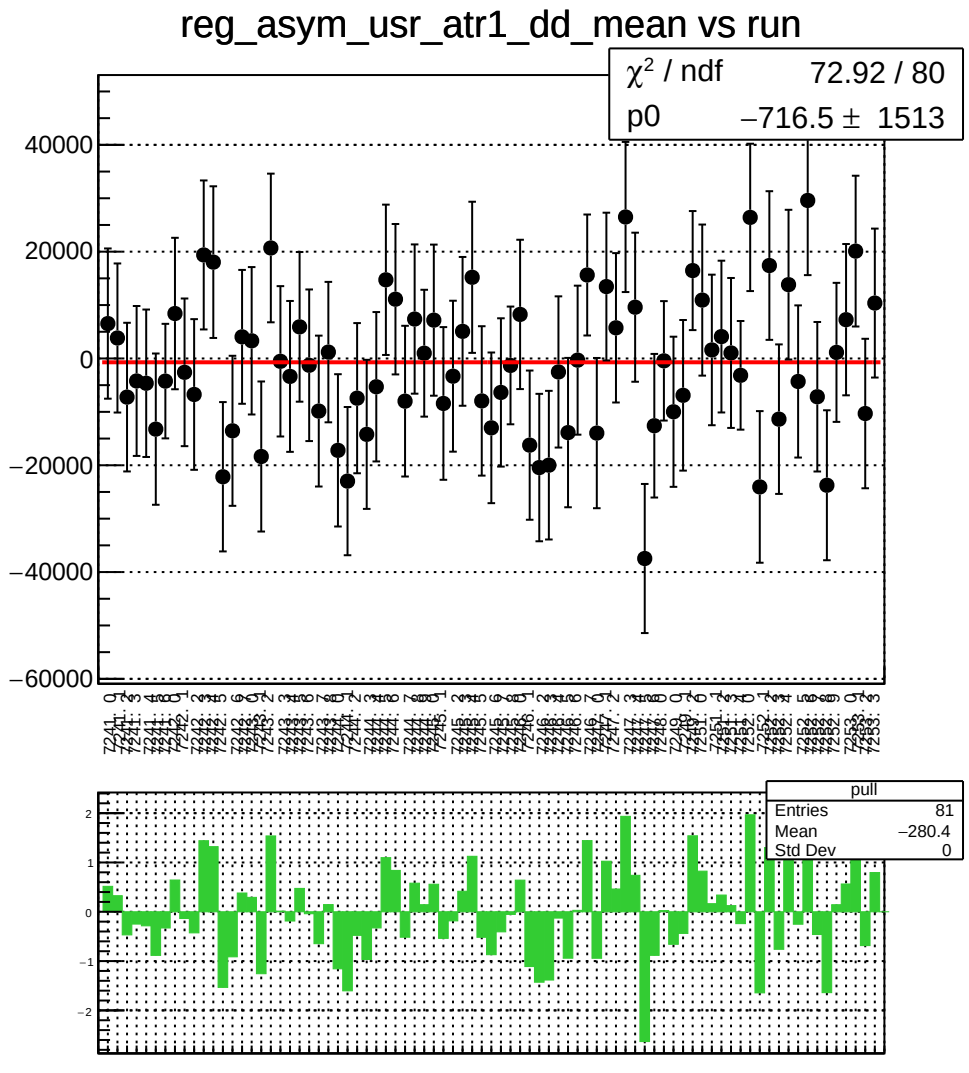

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.52 / 80
p0 −0.04829 ± 0.06113
pull
Entries 81
Mean 41.88
Std Dev 35.57
pull1D
Entries 81
Mean 0.03269
Std Dev 0.9714

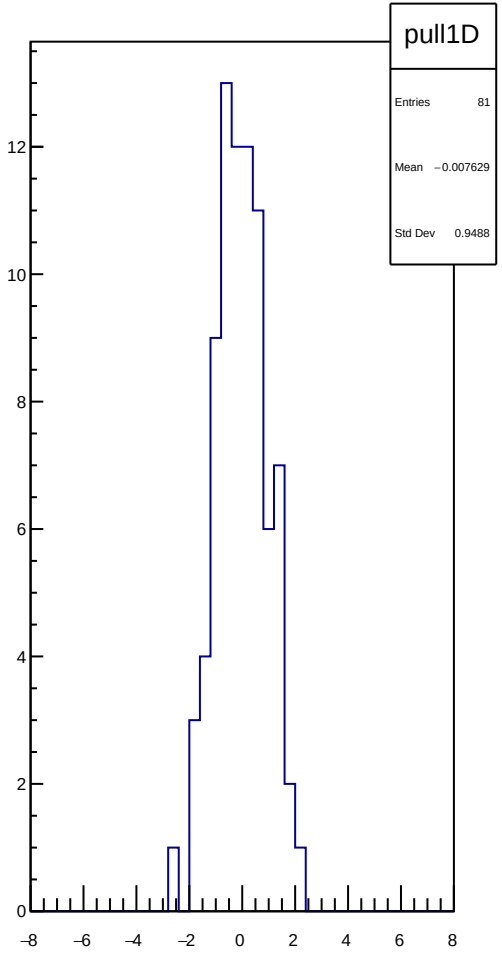

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.684e+04 / 80
p0 52.09 ± 0.04323
100
90
80
70
60
50
40
30
20

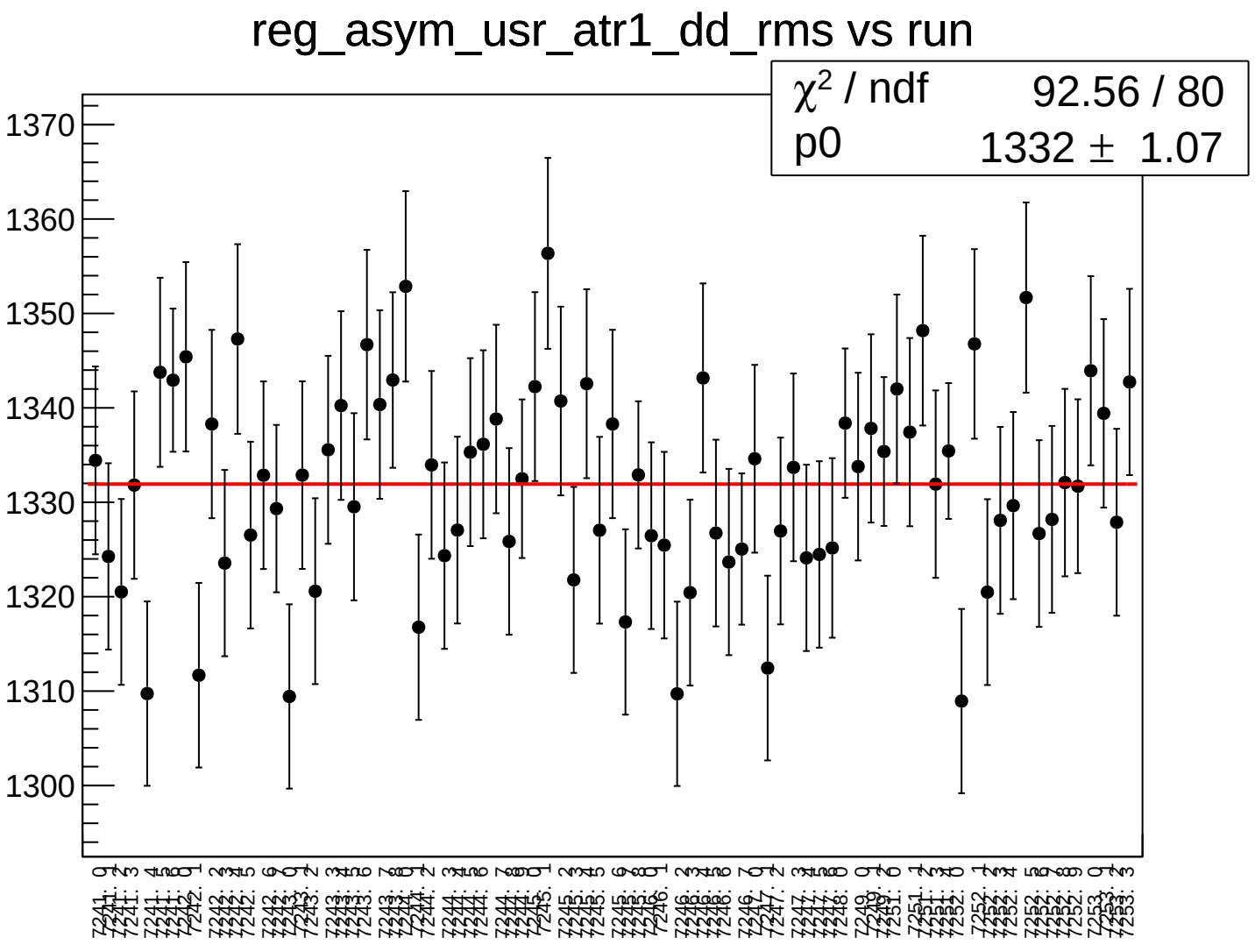

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.45 / 80
p0 −1.017e−14 ± 1.364e−14
pull
Entries 81
Mean 69.54
Std Dev 0

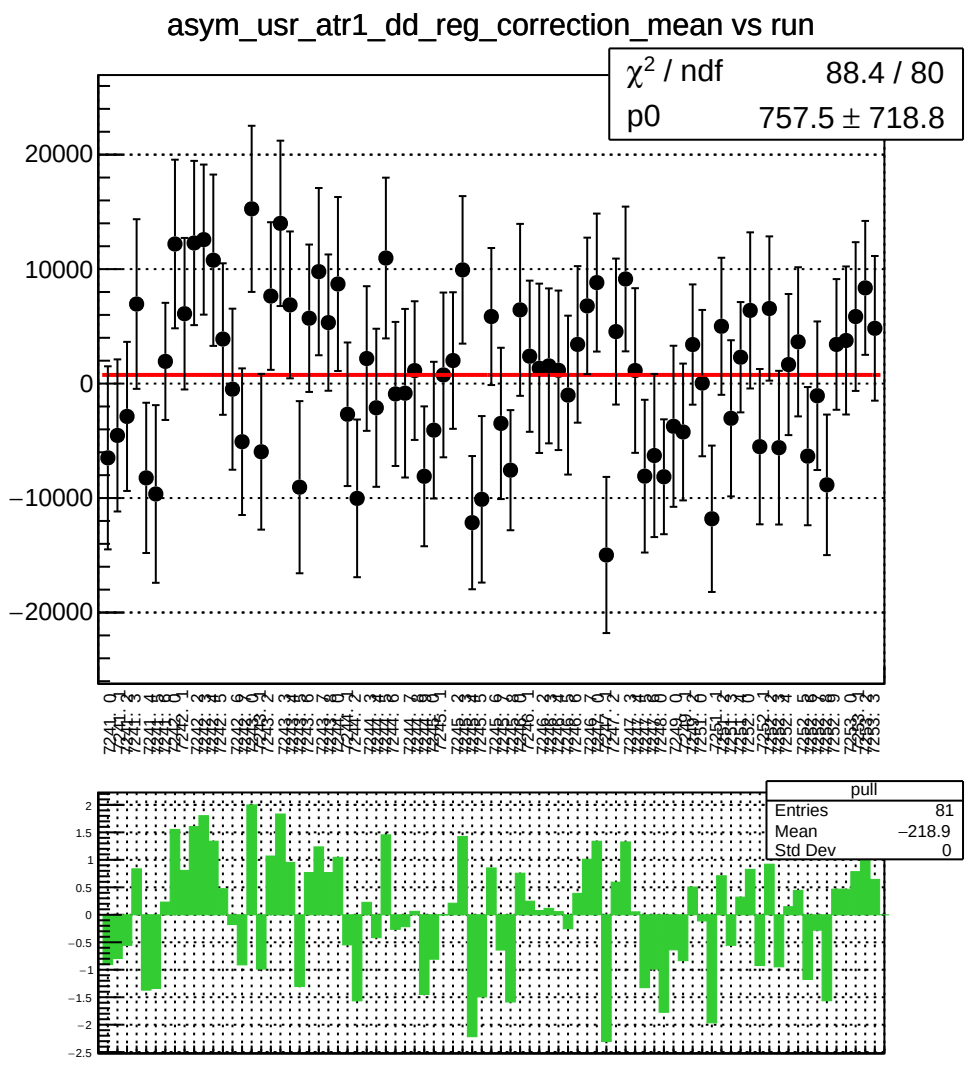

pull1D
Entries 81
Mean −0.02397
Std Dev 1.027

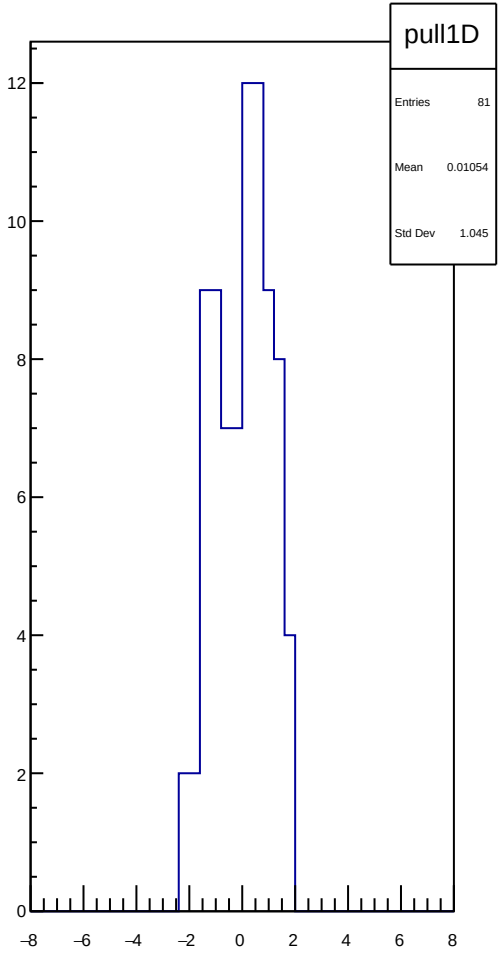

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.257e+05 / 80
p0 9.267e−12 ± 9.644e−15
0.1
0.08
0.06
0.04
0.02

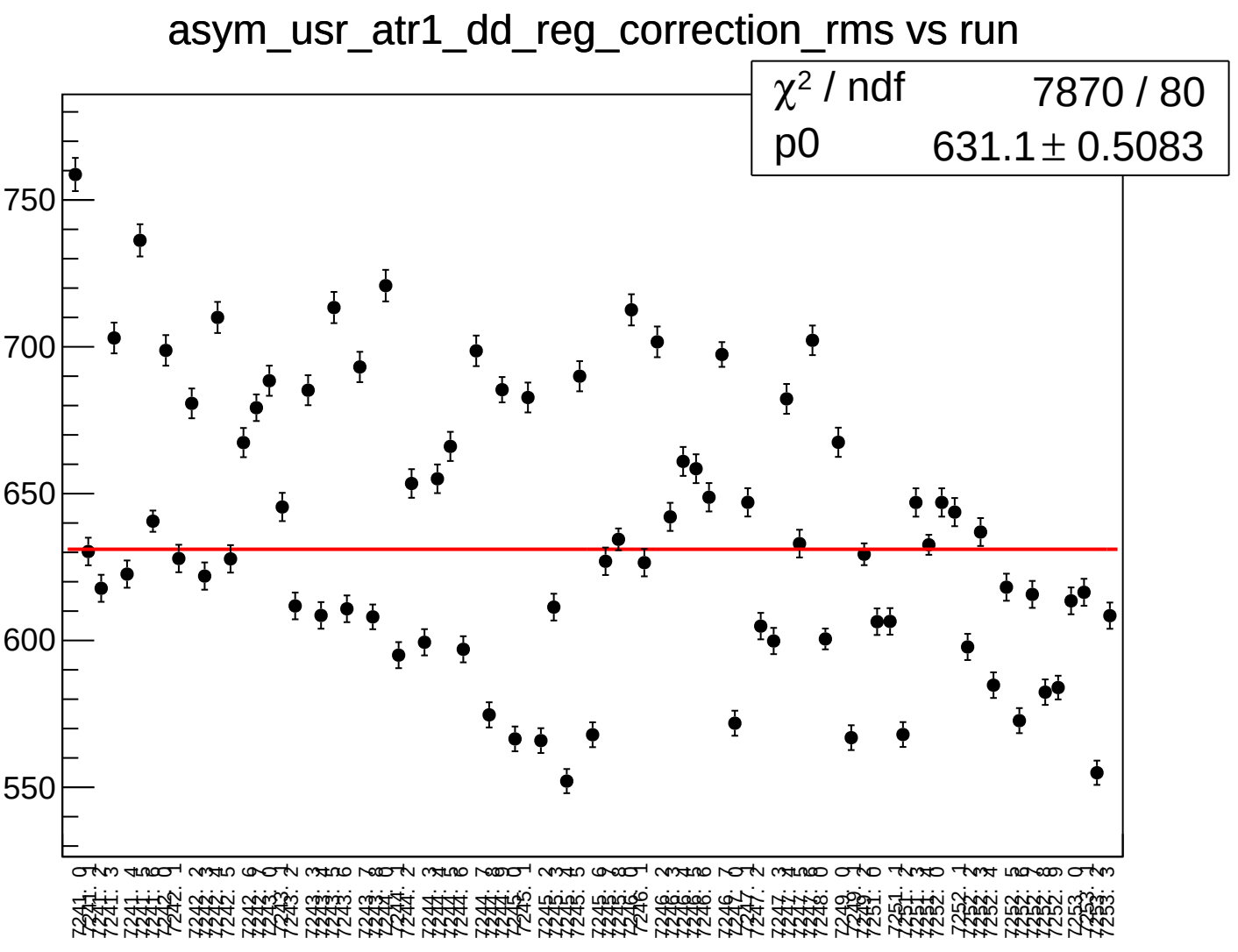

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 72.92 / 80
p0 −716.5 ± 1513
pull
Entries 81
Mean −280.4
Std Dev 0

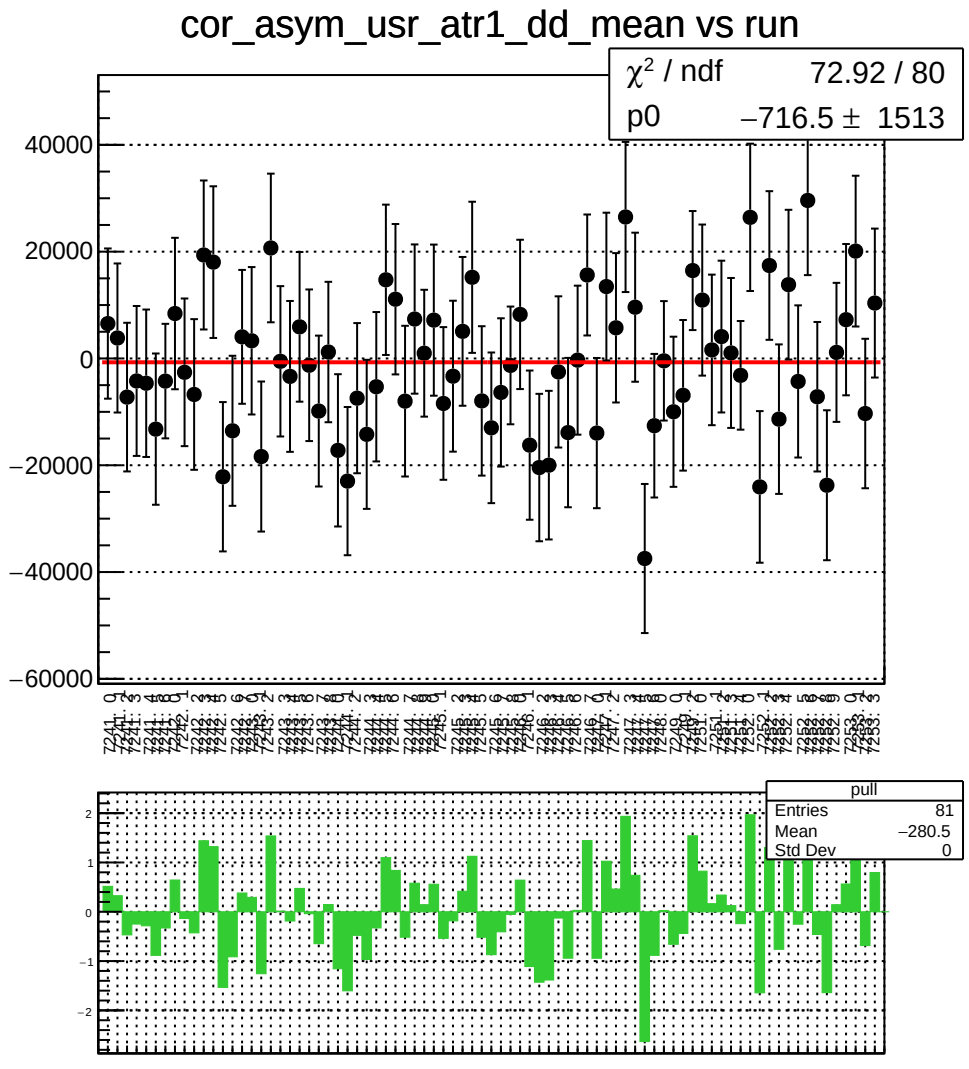

pull1D
Entries 81
Mean −0.007629
Std Dev 0.9488

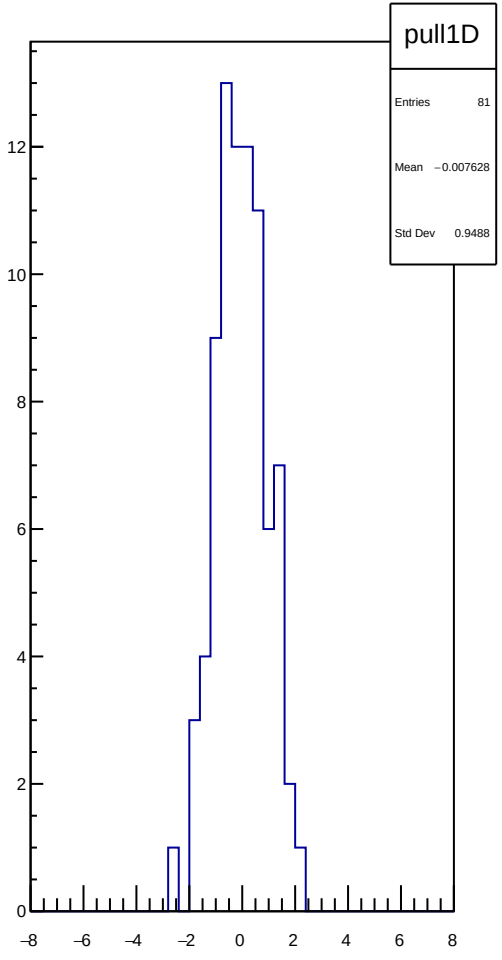

reg_asym_usr_atr1_dd_rms vs run
χ² / ndf 92.56 / 80
p0 1332 ± 1.07
1370
1360
1350
1340
1330
1320
1310
1300

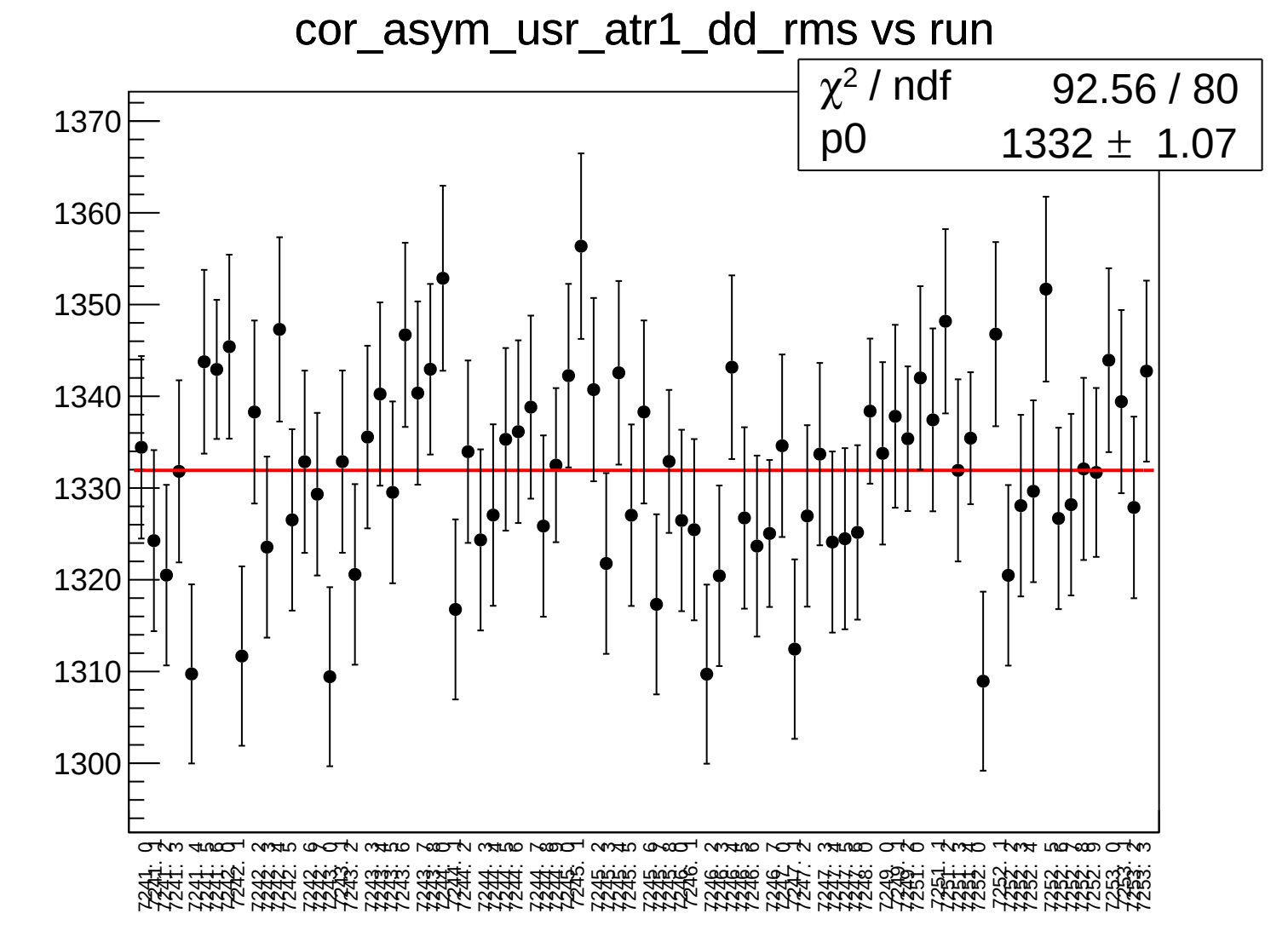

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 88.4 / 80
p0 757.5 ± 718.8
20000
10000
0
−10000
−20000
pull
Entries 81
Mean −218.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

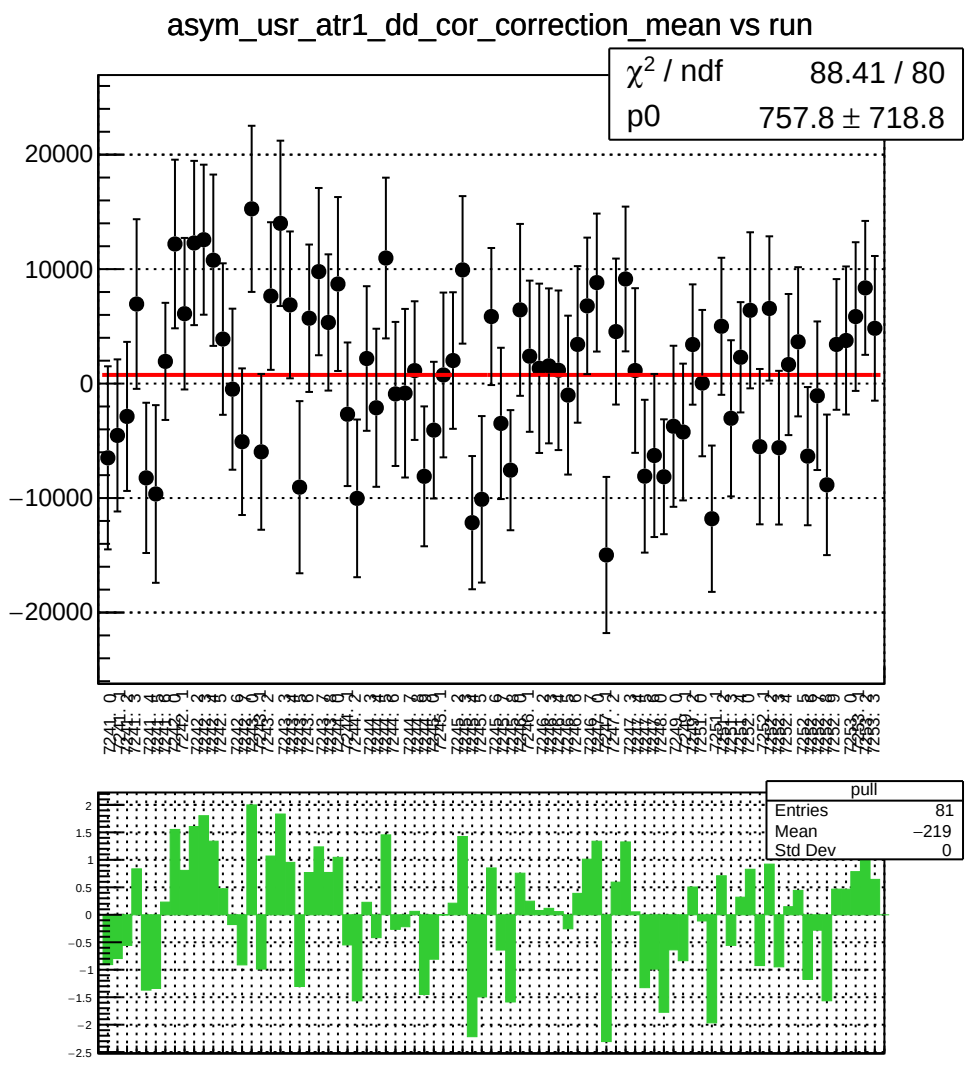

pull1D
Entries 81
Mean 0.01054
Std Dev 1.045
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

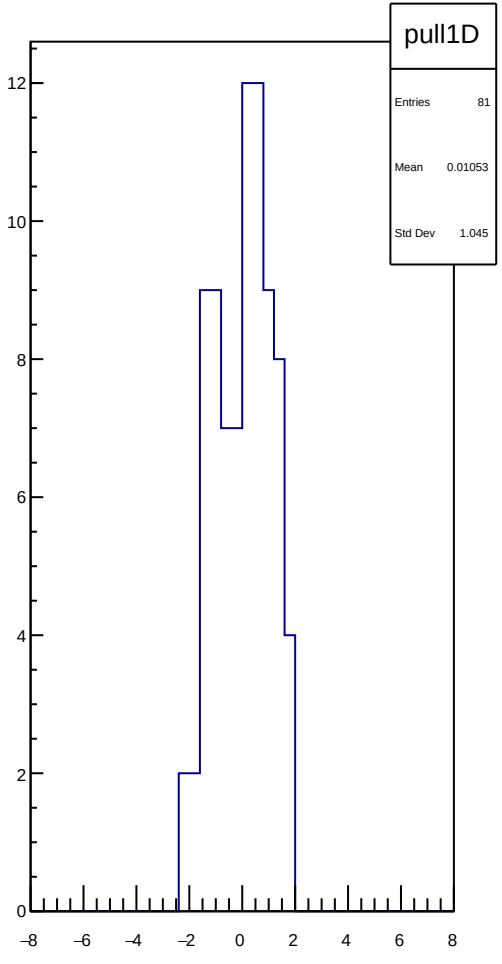

asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 7870 / 80
p0 631.1 ± 0.5083
750
700
650
600
550

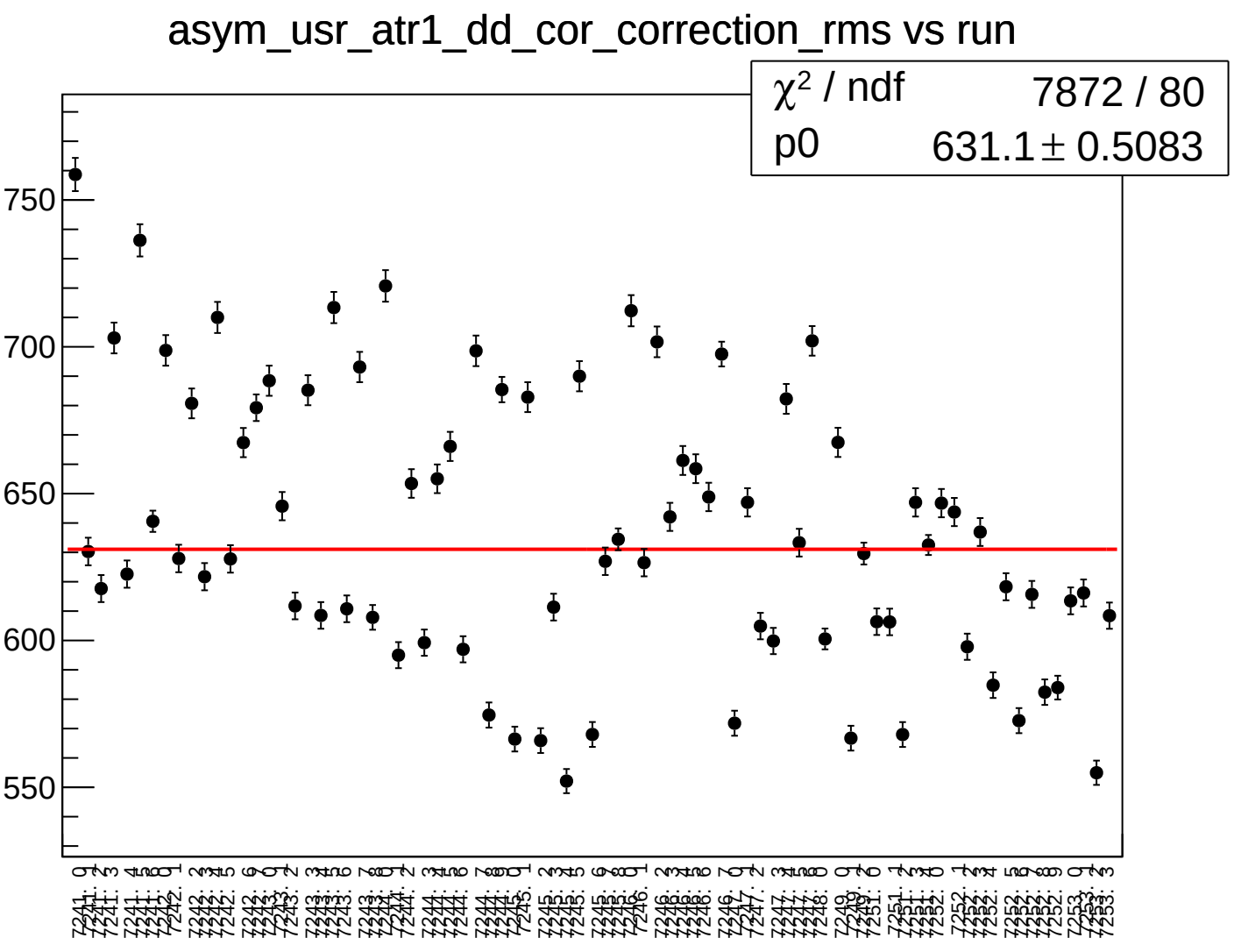

cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 72.92 / 80
p0 −716.5 ± 1513
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −280.5
Std Dev 0
2
1
0
−1
−2

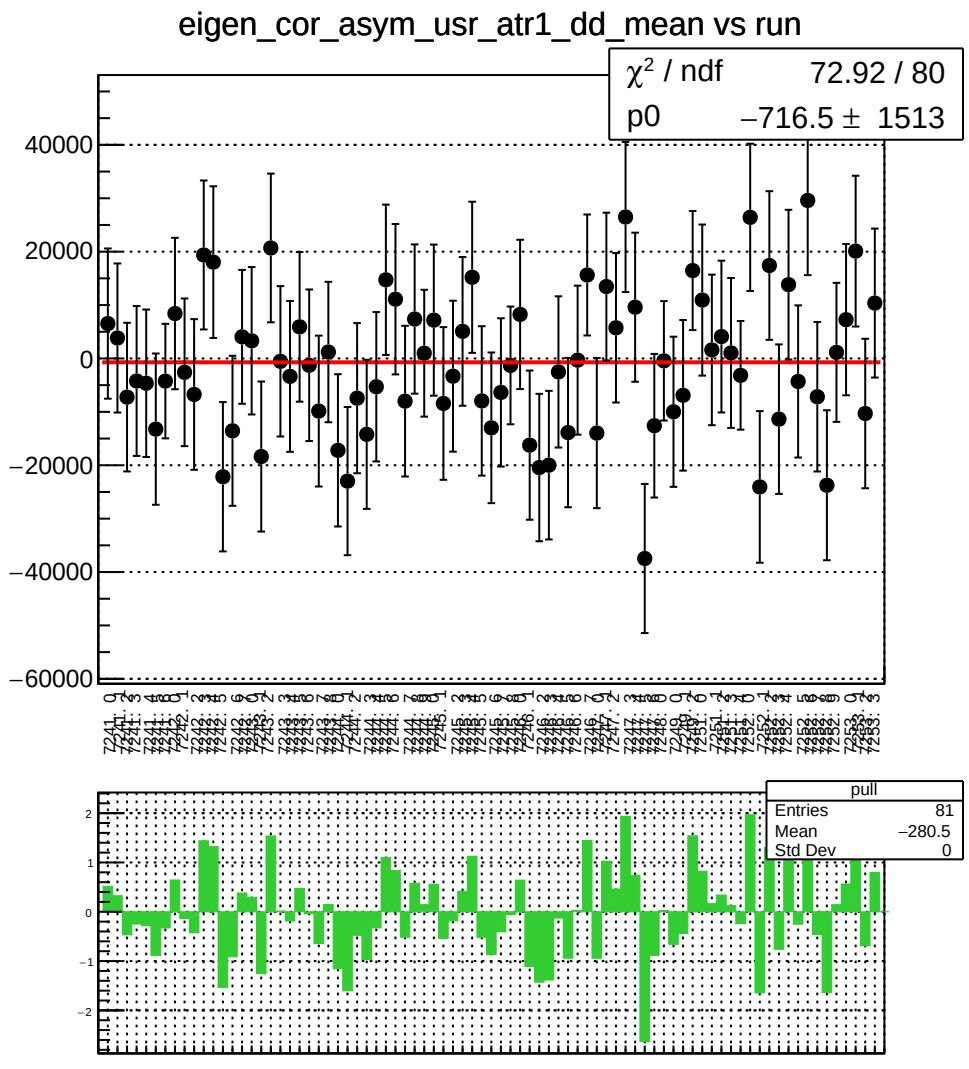

pull1D
Entries 81
Mean −0.007628
Std Dev 0.9488
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

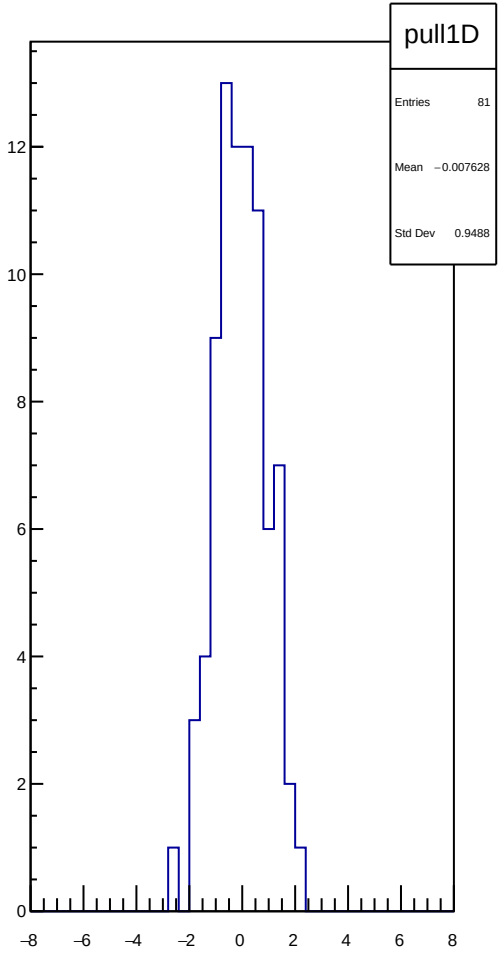

cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 92.56 / 80
p0 1332 ± 1.07
1370
1360
1350
1340
1330
1320
1310
1300

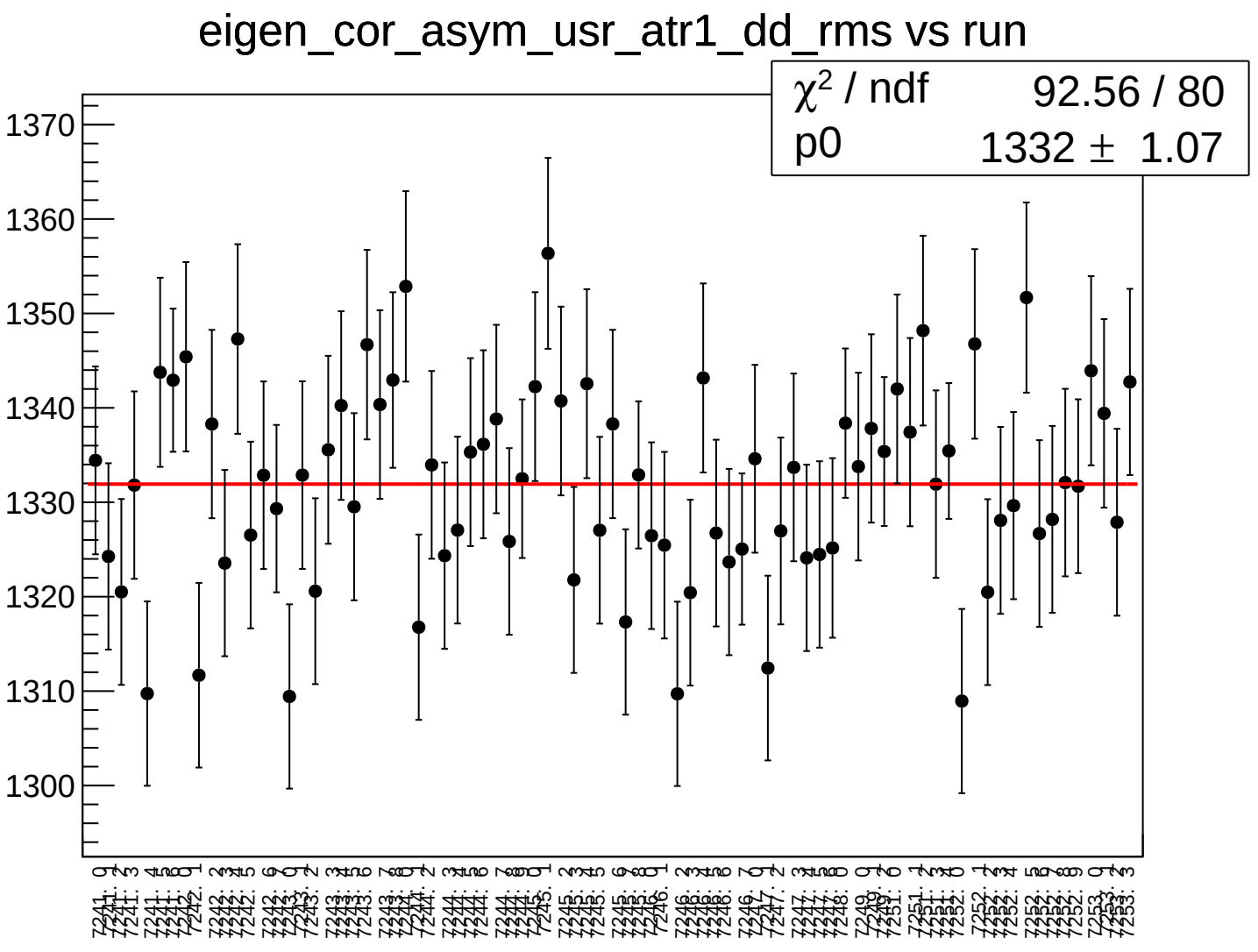

asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 88.41 / 80
p0 757.8 ± 718.8
20000
10000
0
−10000
−20000
pull
Entries 81
Mean −219
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

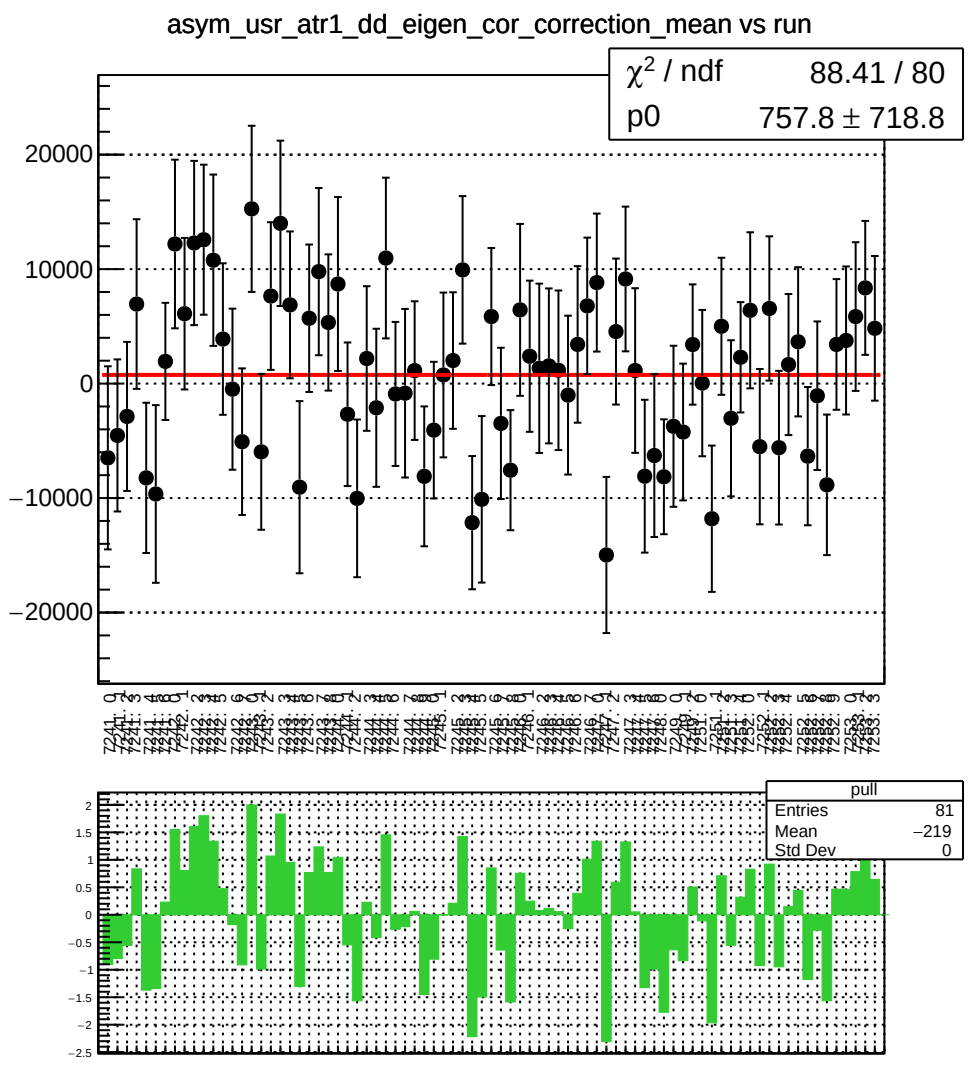

pull1D
Entries 81
Mean 0.01053
Std Dev 1.045
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

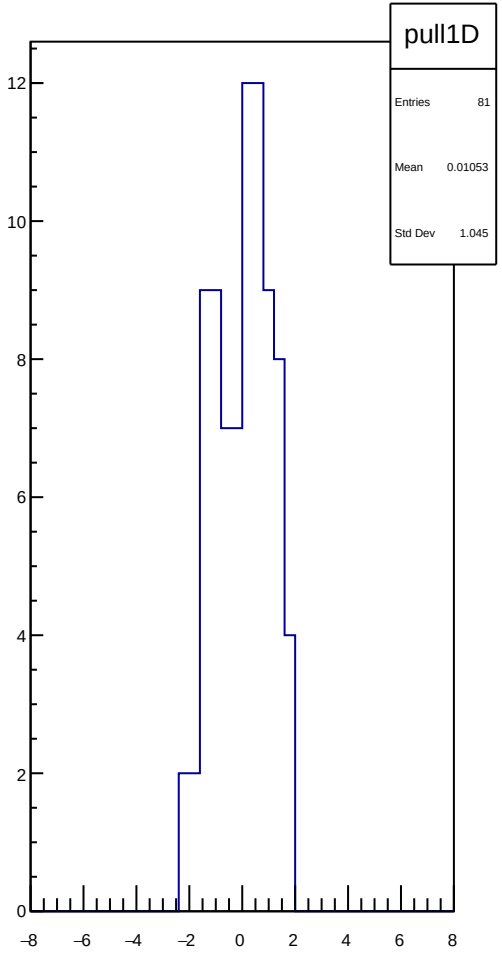

asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 7872 / 80
p0 631.1 ± 0.5083
750
700
650
600
550

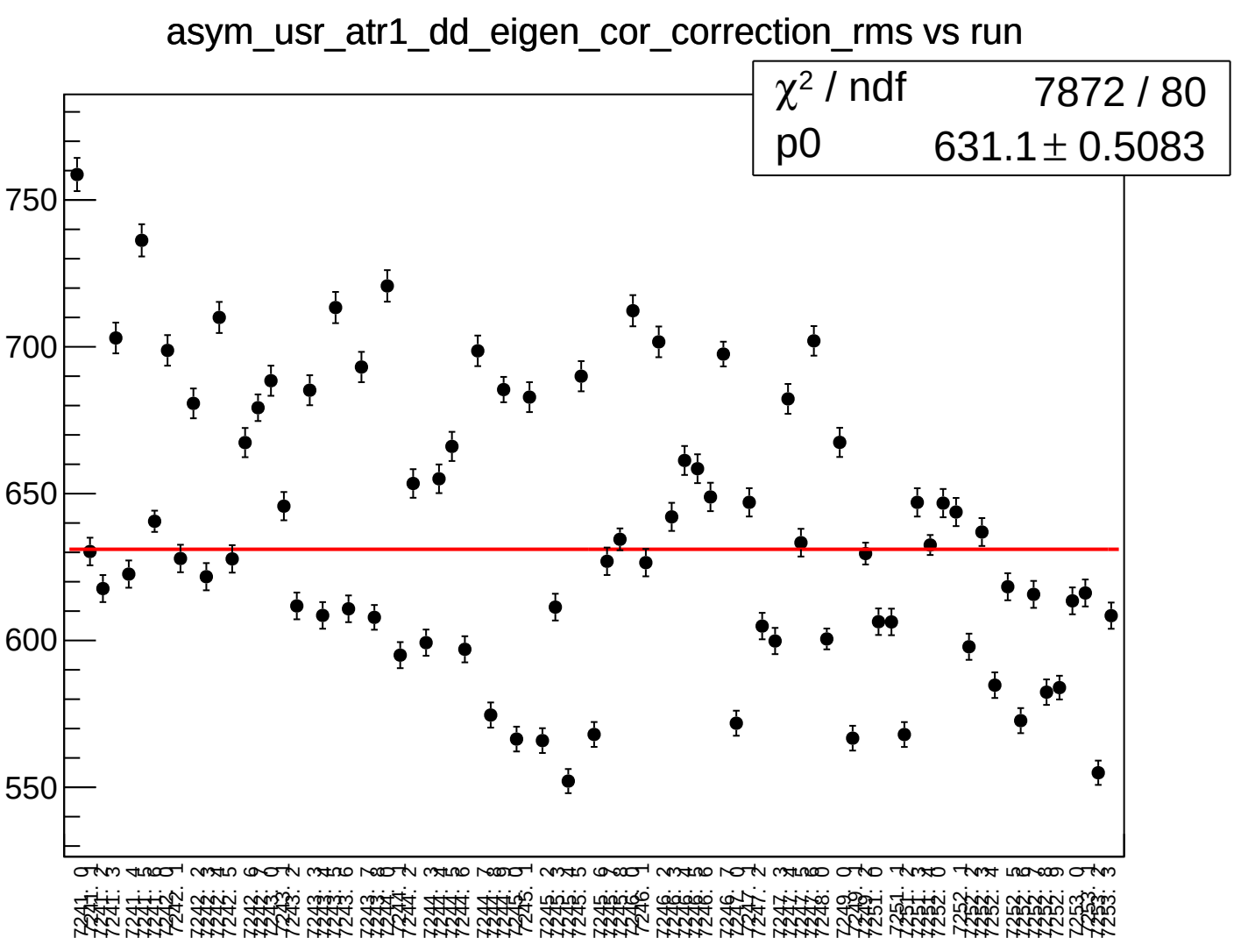

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 72.92 / 80
p0 −716.5 ± 1513
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −280.5
Std Dev 0
2
1
0
−1
−2

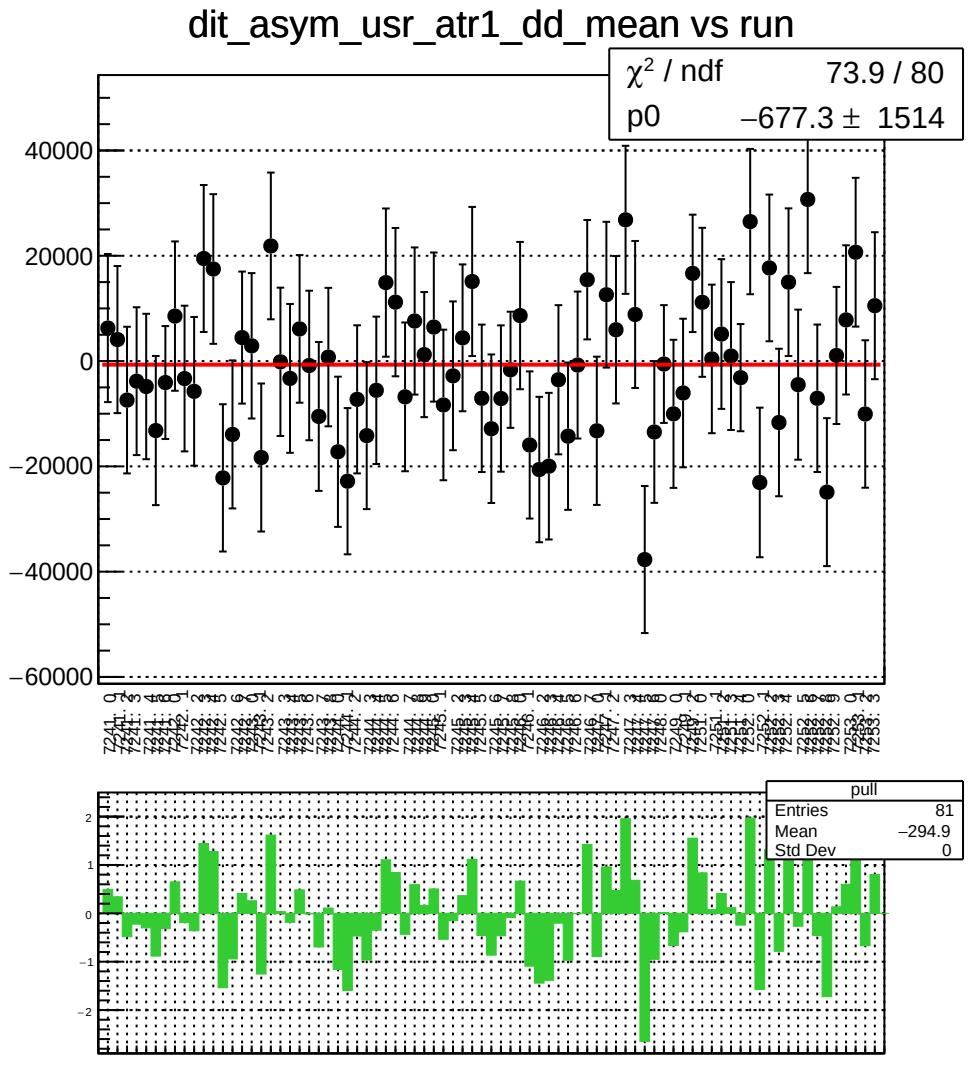

pull1D
Entries 81
Mean −0.007628
Std Dev 0.9488
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

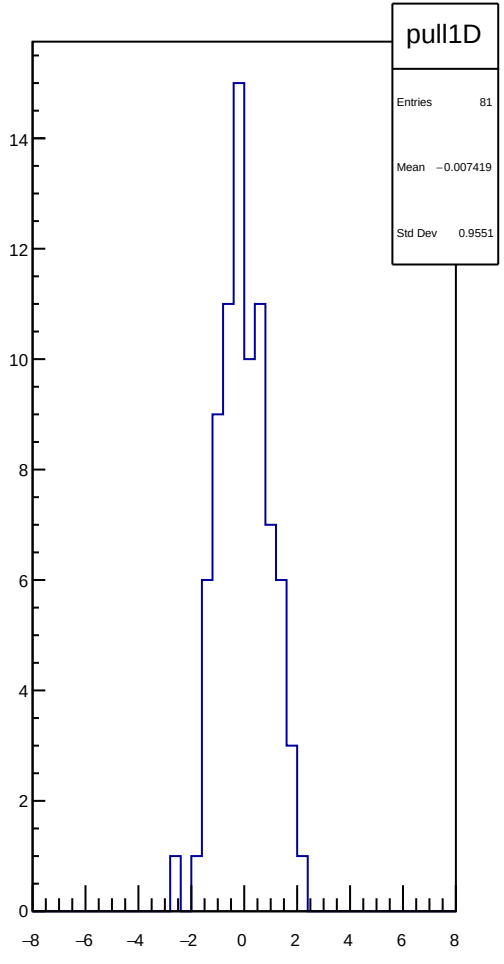

eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 92.56 / 80
p0 1332 ± 1.07
1370
1360
1350
1340
1330
1320
1310
1300

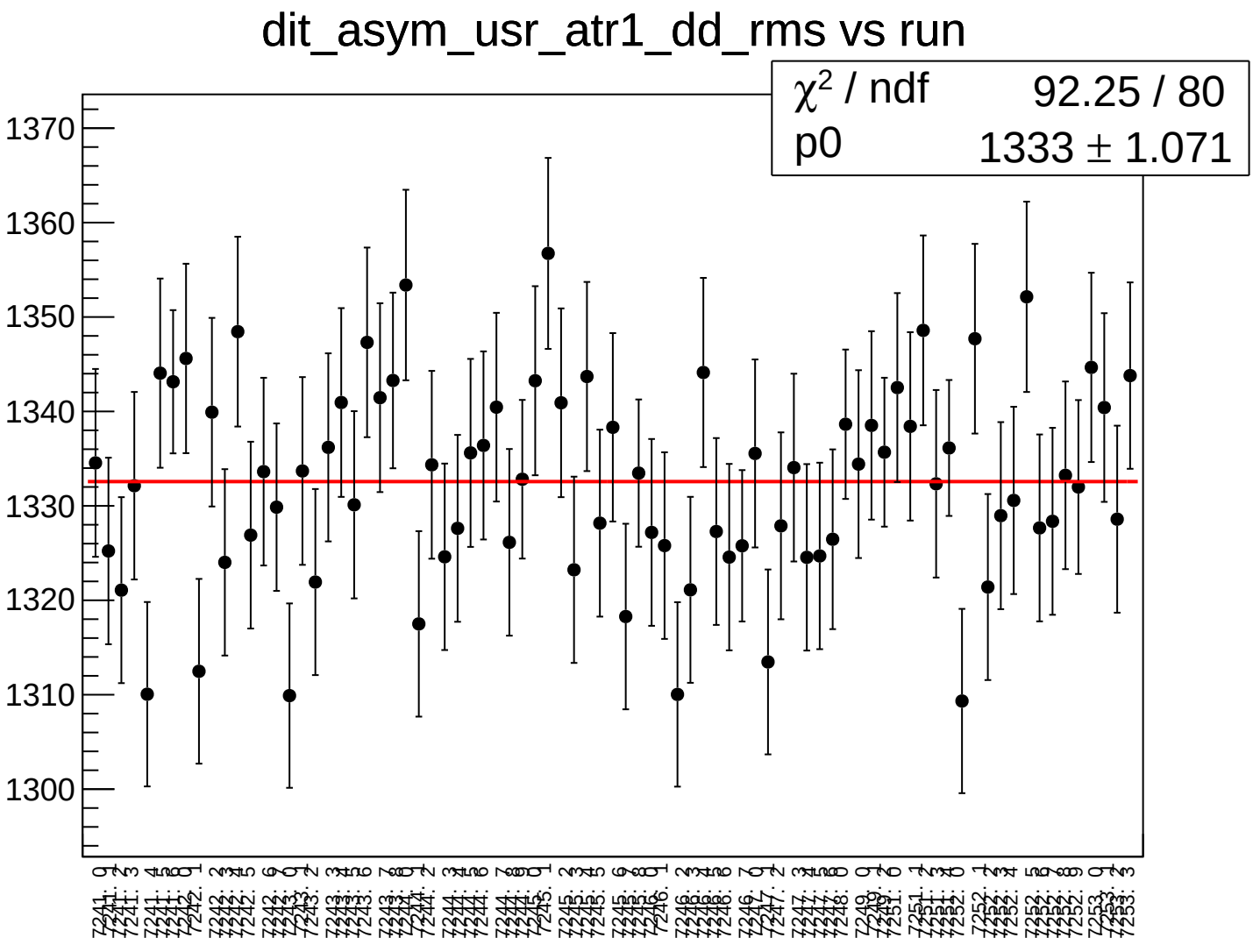

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 88.41 / 80
p0 757.8 ± 718.8
20000
10000
0
−10000
−20000
pull
Entries 81
Mean −219
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

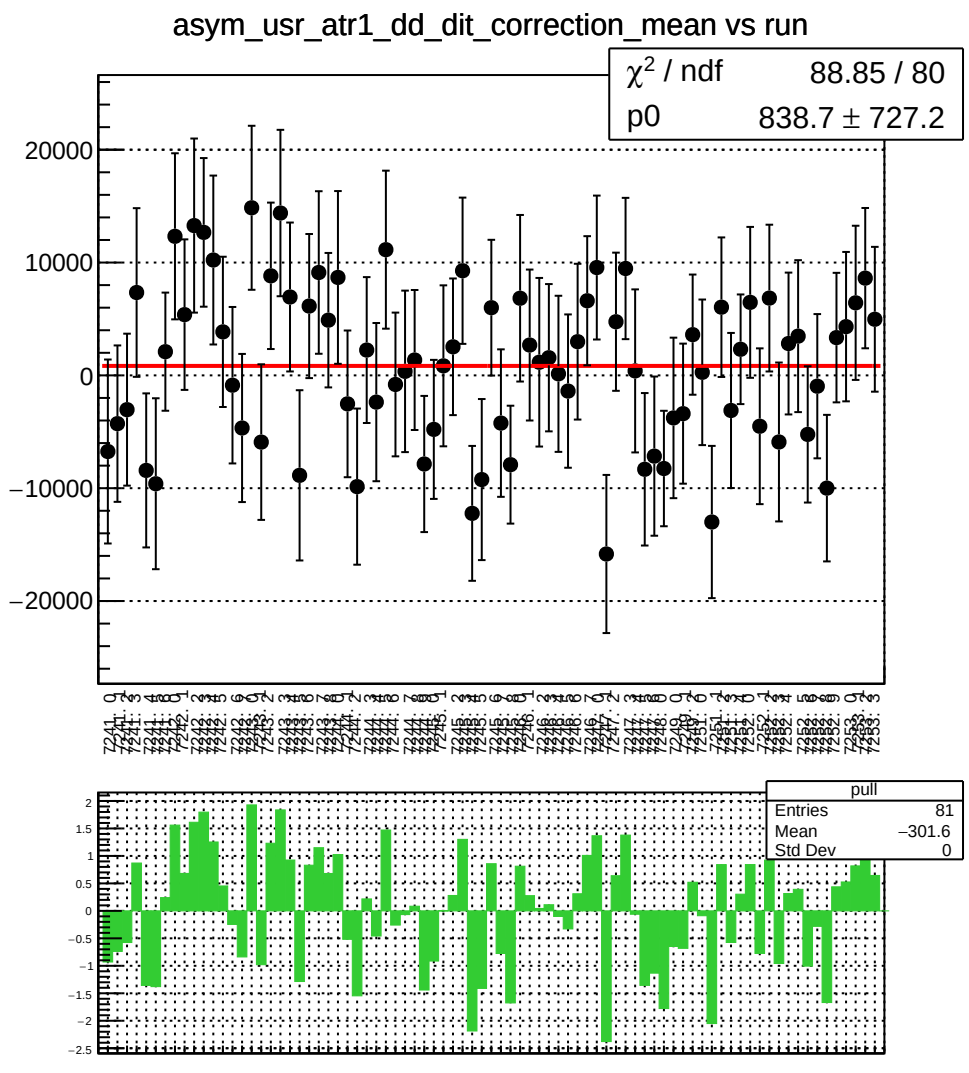

pull1D
Entries 81
Mean 0.01053
Std Dev 1.045
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

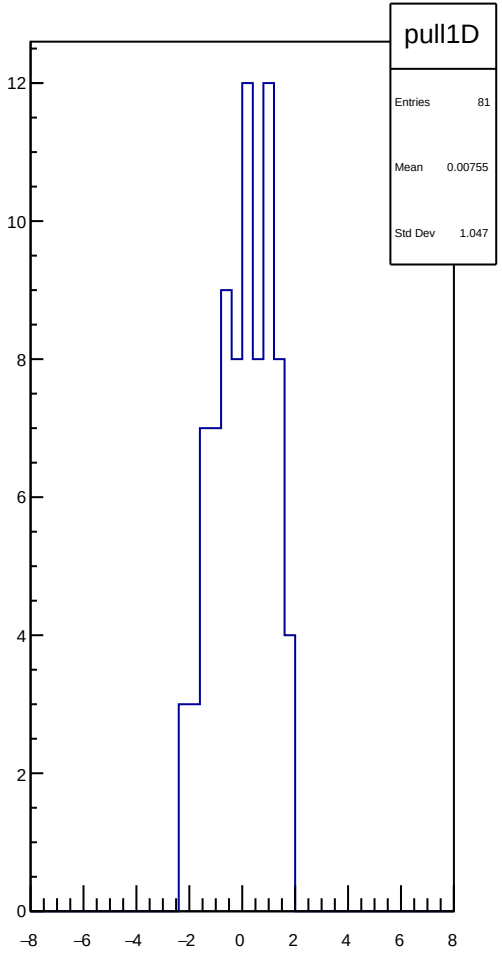

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 7872 / 80
p0 631.1 ± 0.5083
750
700
650
600
550

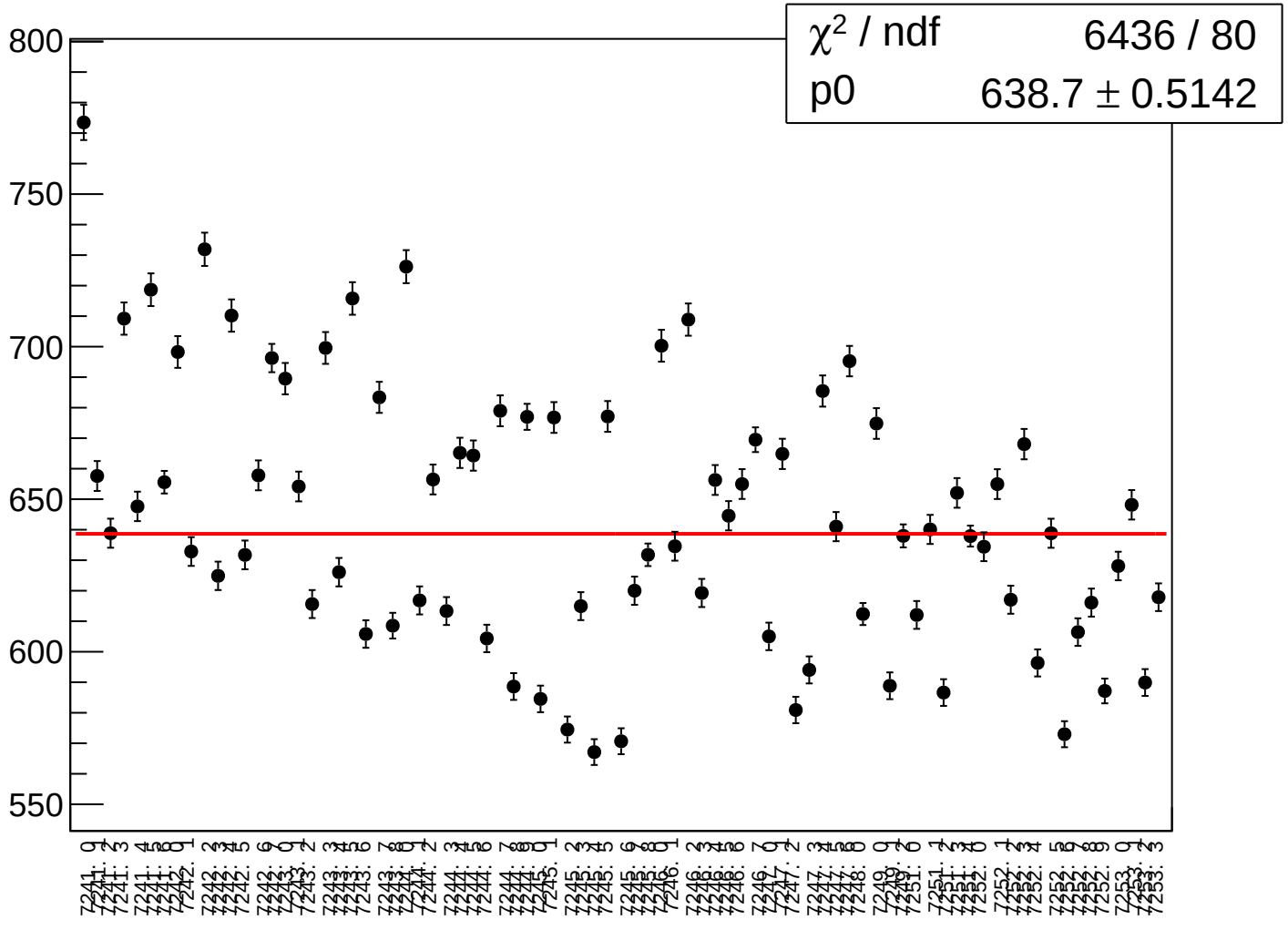

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 73.9 / 80
p0 −677.3 ± 1514
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −294.9
Std Dev 0
2
1
0
−1
−2

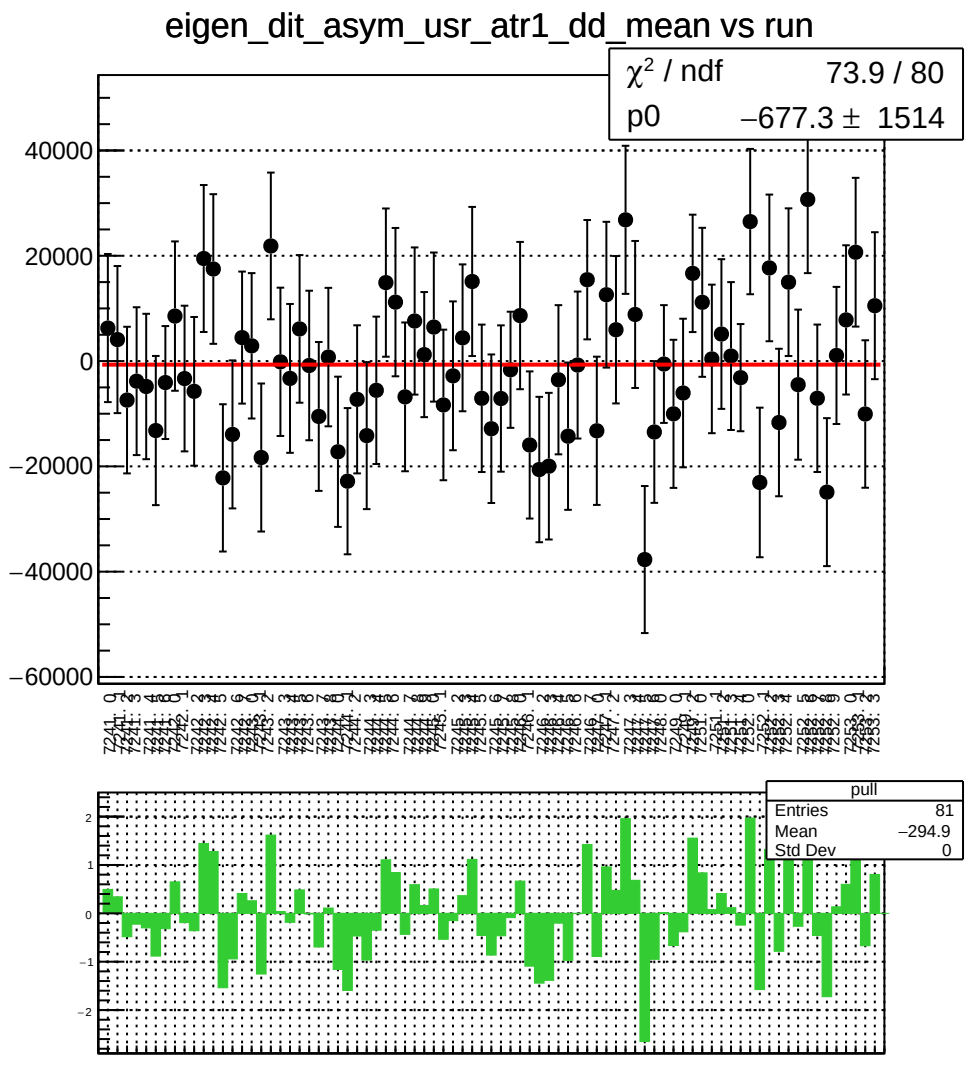

pull1D
Entries 81
Mean −0.007419
Std Dev 0.9551
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

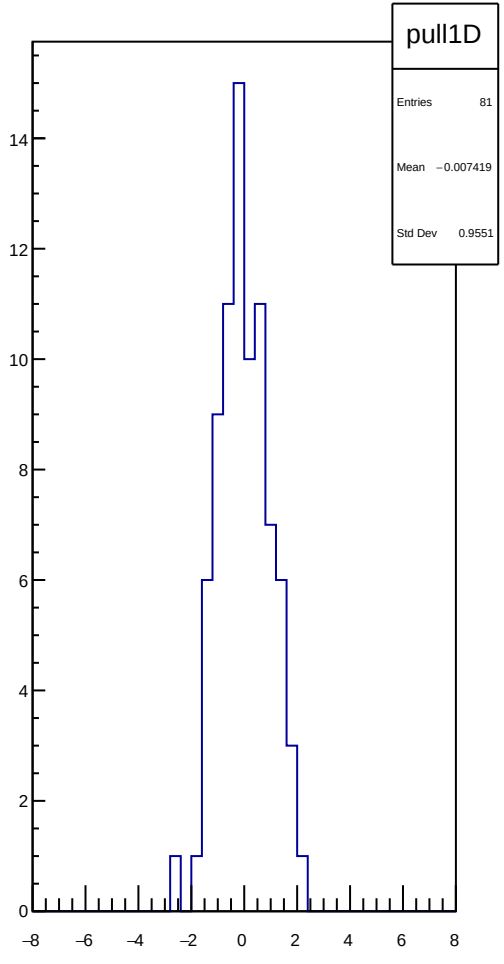

dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 92.25 / 80
p0 1333 ± 1.071
1370
1360
1350
1340
1330
1320
1310
1300


asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 88.85 / 80
p0 838.7 ± 727.2
20000
10000
0
−10000
−20000
pull
Entries 81
Mean −301.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

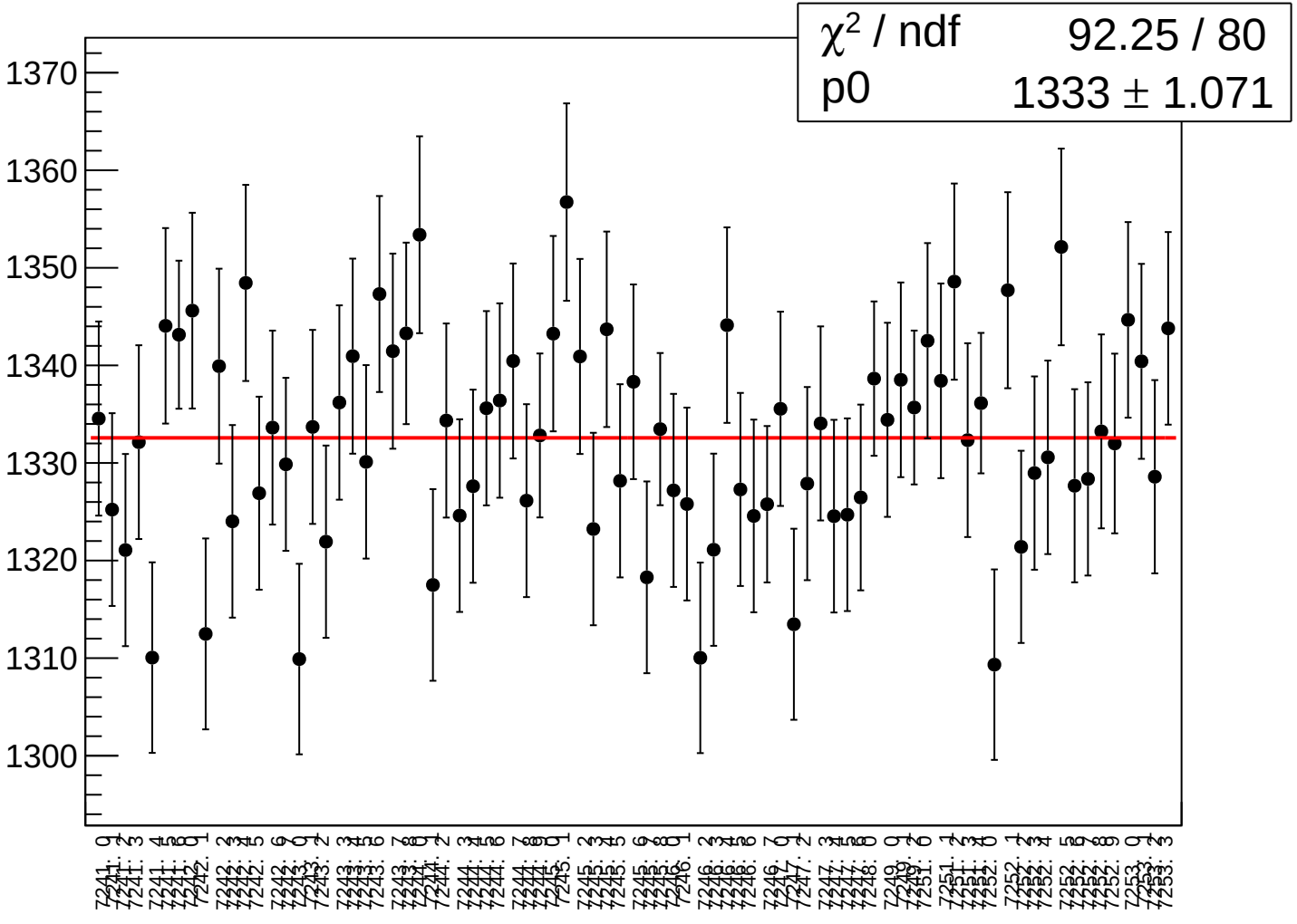

pull1D
Entries 81
Mean 0.00755
Std Dev 1.047
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

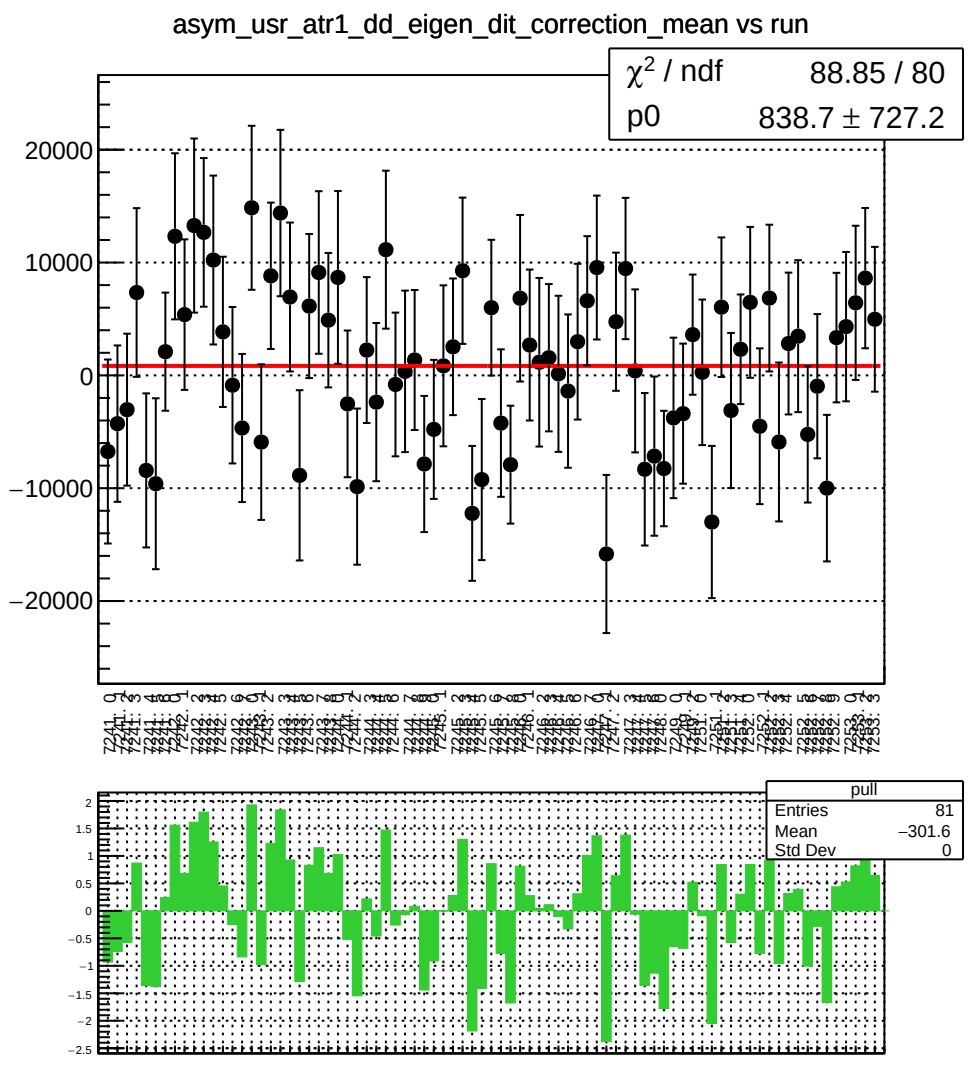

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 6436 / 80
p0 638.7 ± 0.5142
800
750
700
650
600
550

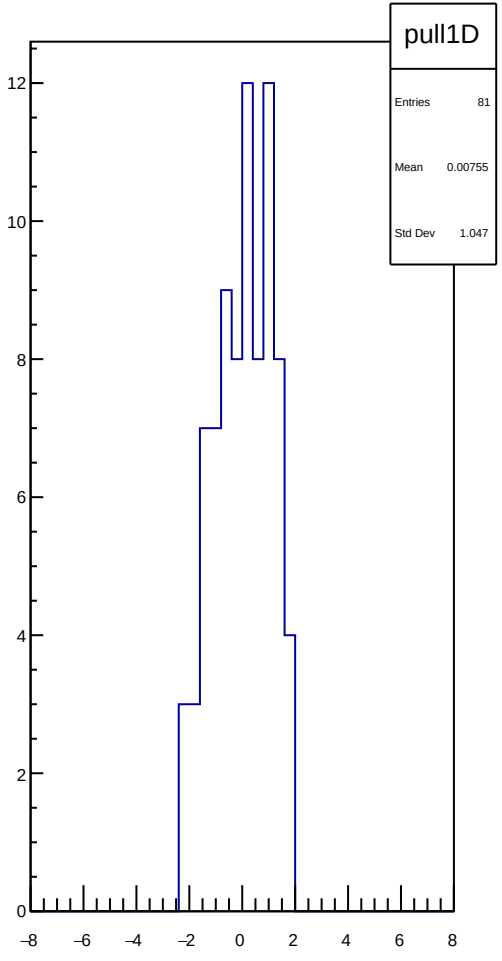

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 73.9 / 80
p0 −677.3 ± 1514
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −294.9
Std Dev 0
2
1
0
−1
−2

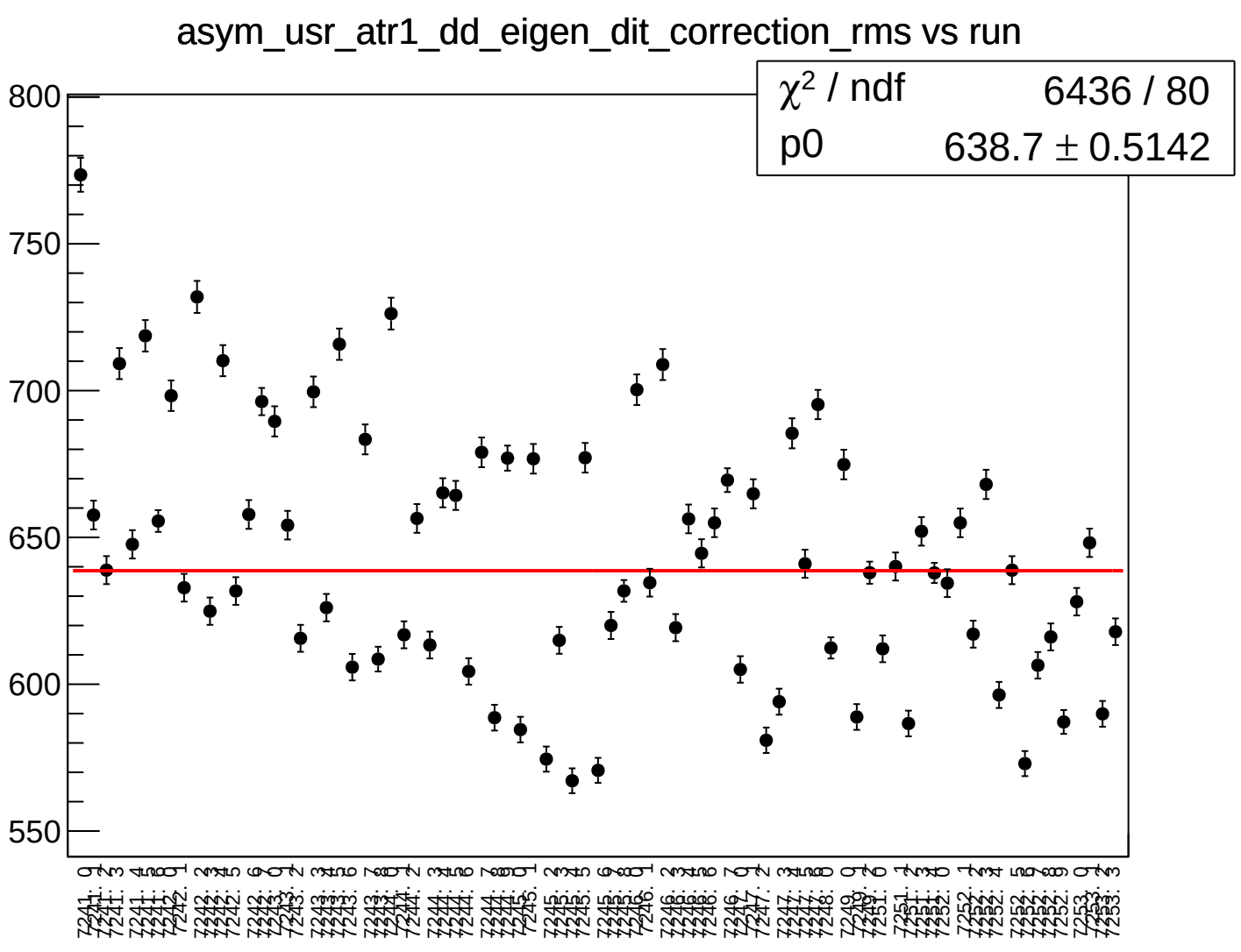

pull1D
Entries 81
Mean −0.007419
Std Dev 0.9551
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

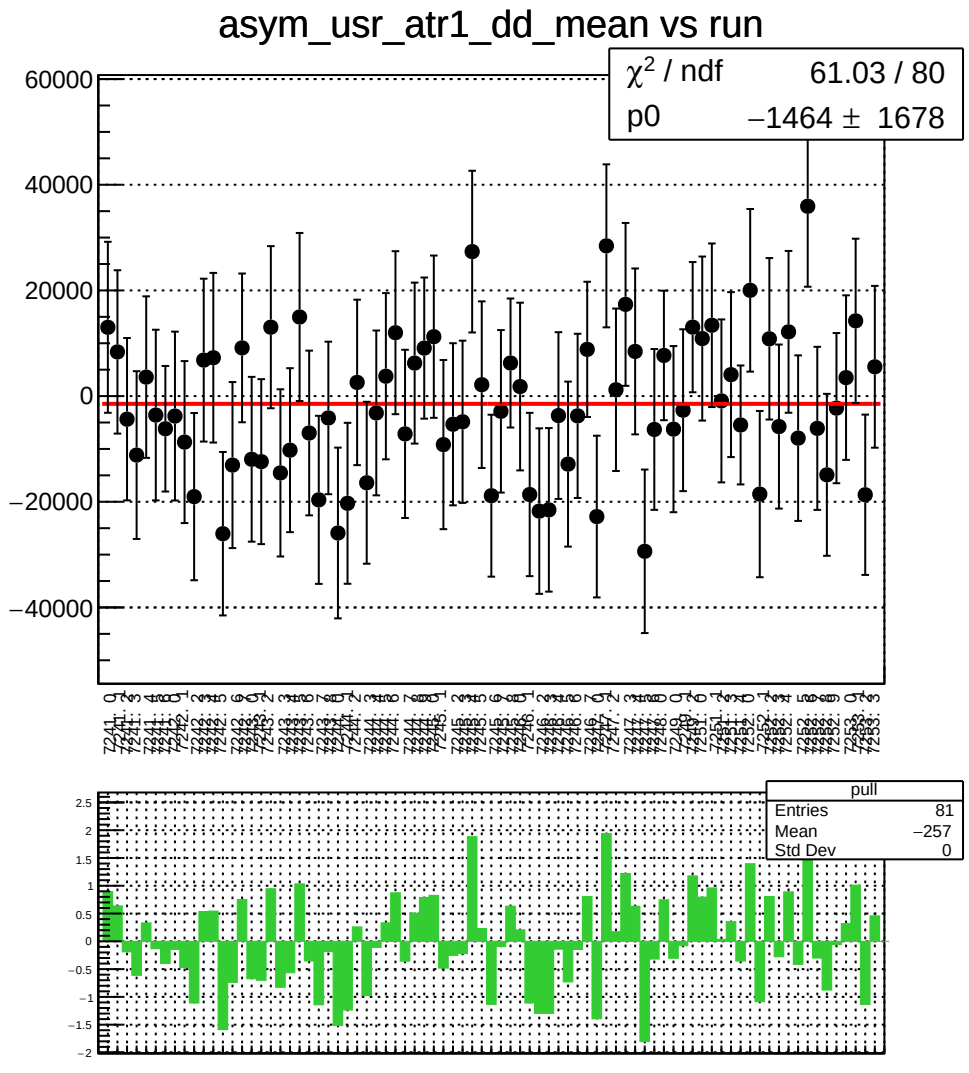
eigen_dit_asym_usr_atr1_dd_rms vs run

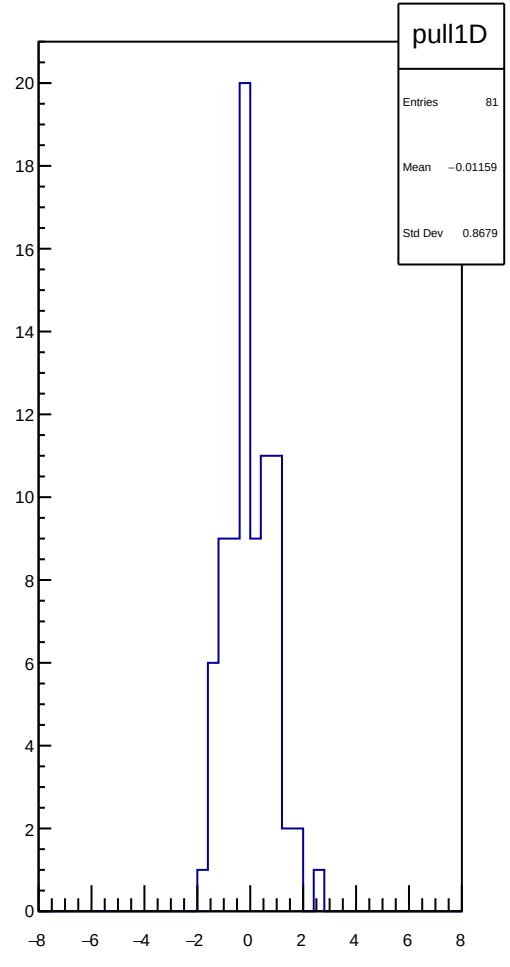


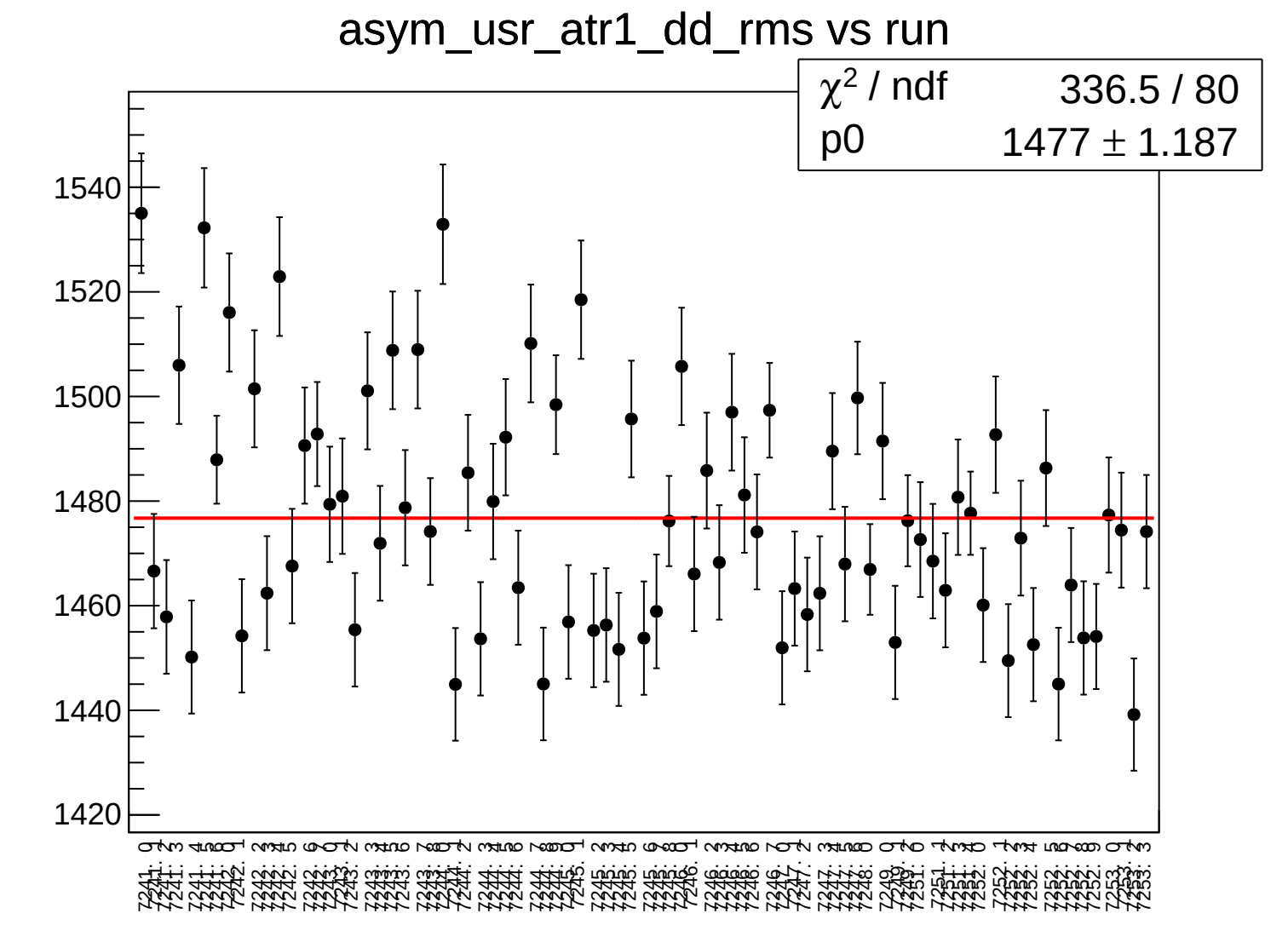

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 88.85 / 80
p0 838.7 ± 727.2
20000
10000
0
−10000
−20000
pull
Entries 81
Mean −301.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

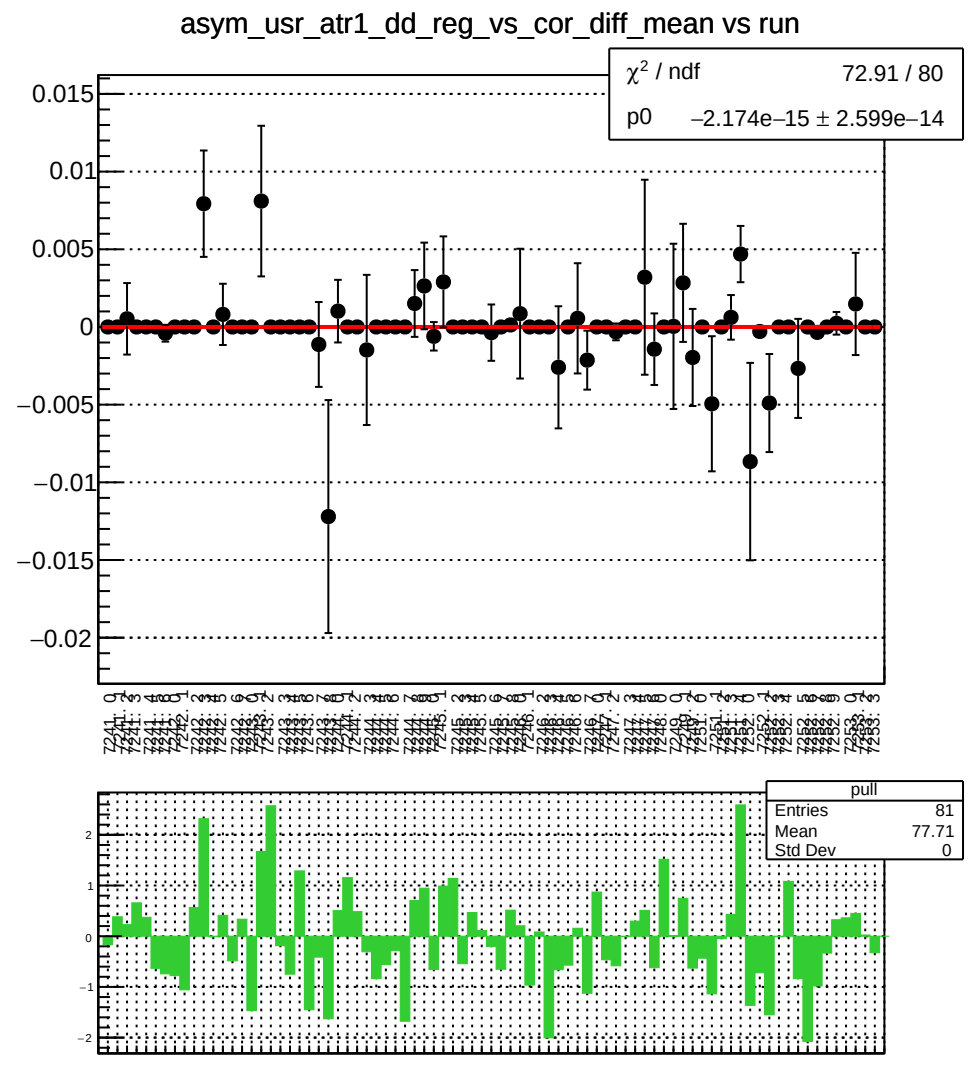

pull1D
Entries 81
Mean 0.00755
Std Dev 1.047
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

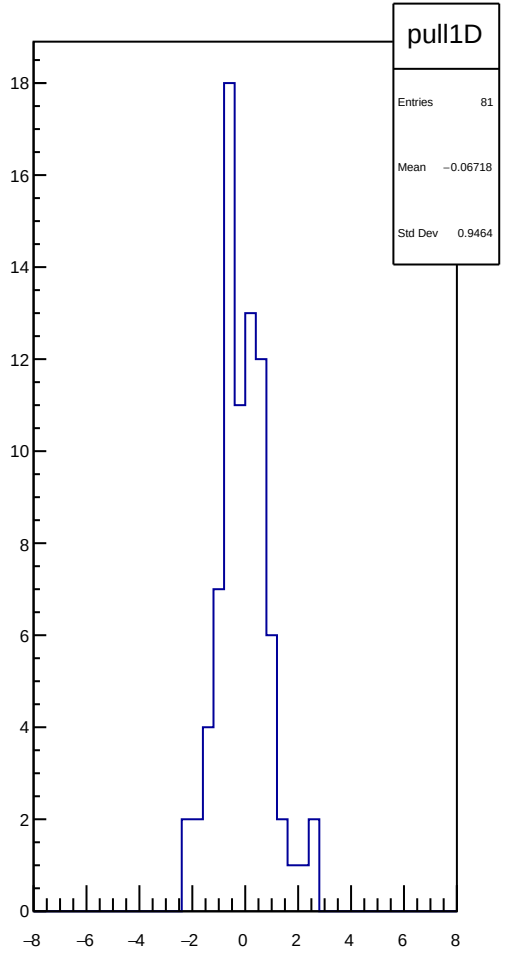

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 6436 / 80
p0 638.7 ± 0.5142
800
750
700
650
600
550

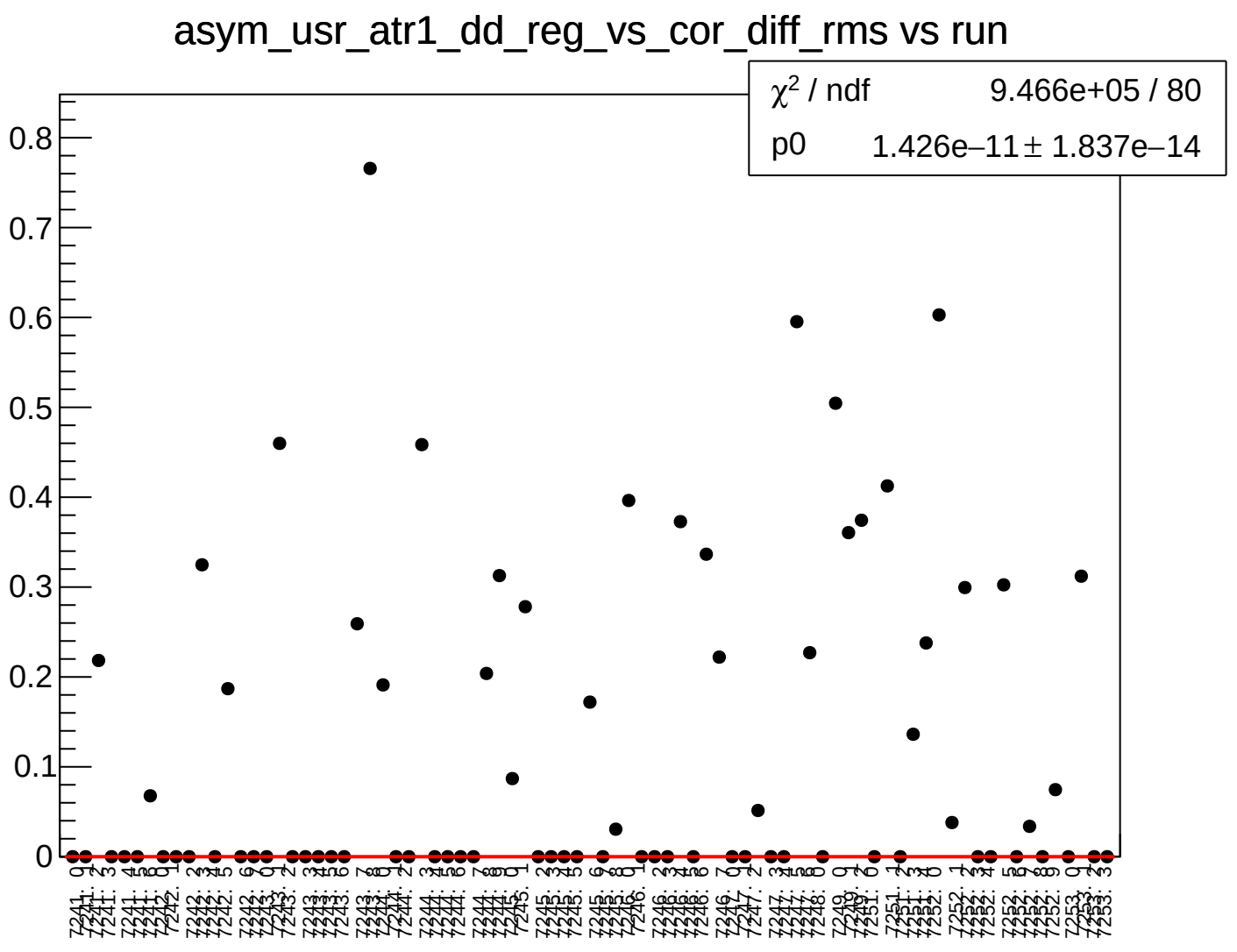

asym_usr_atr1_dd_mean vs run
χ² / ndf 61.03 / 80
p0 −1464 ± 1678
60000
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −257
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

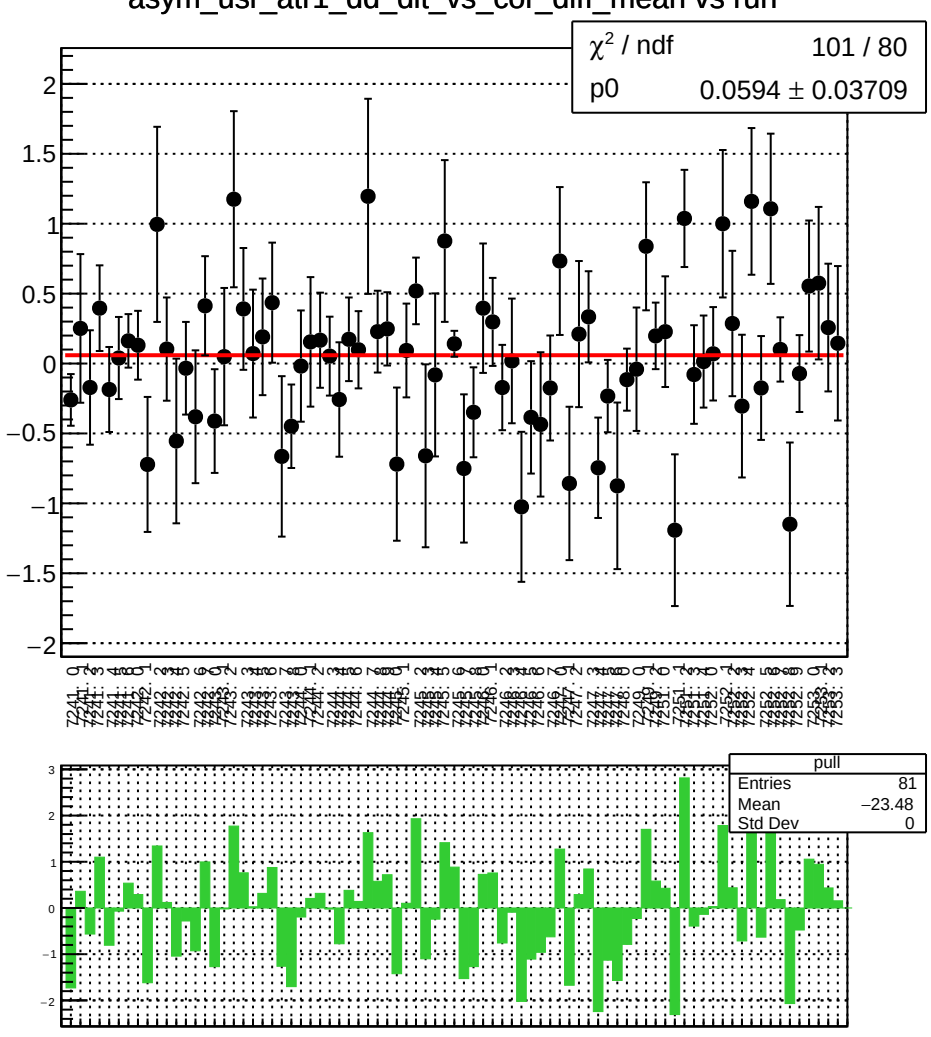

pull1D
Entries 81
Mean −0.01159
Std Dev 0.8679
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

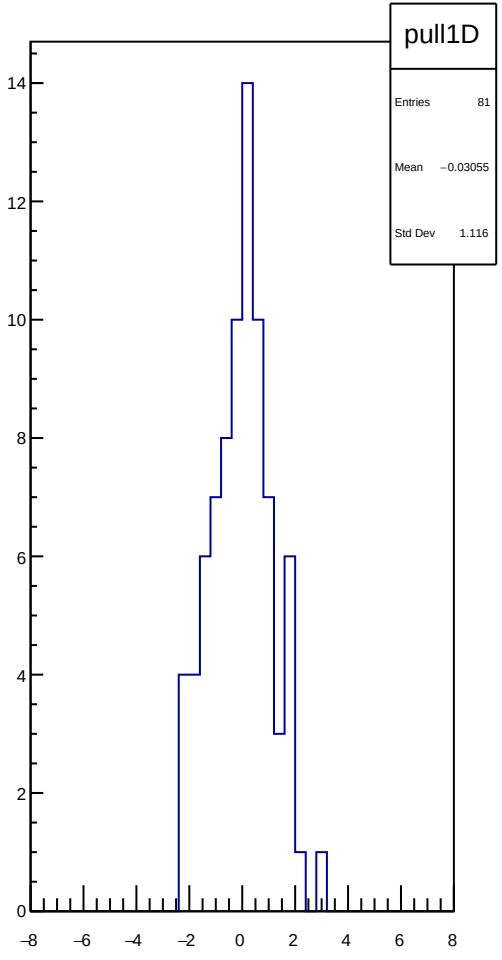

asym_usr_atr1_dd_rms vs run
χ² / ndf 336.5 / 80
p0 1477 ± 1.187
1540
1520
1500
1480
1460
1440
1420

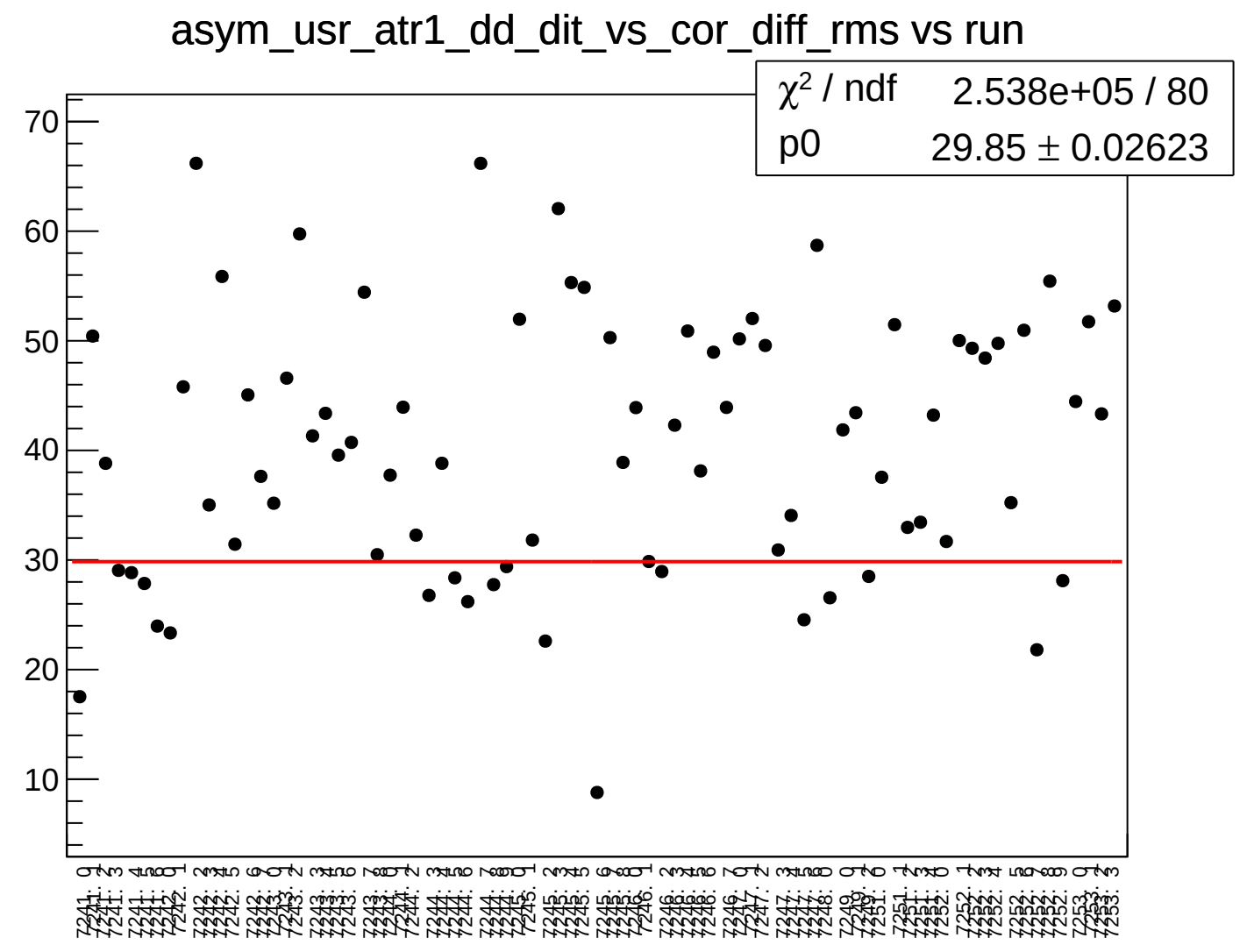

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 72.91 / 80
p0 −2.174e−15 ± 2.599e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 81
Mean 77.71
Std Dev 0
2
1
0
−1
−2

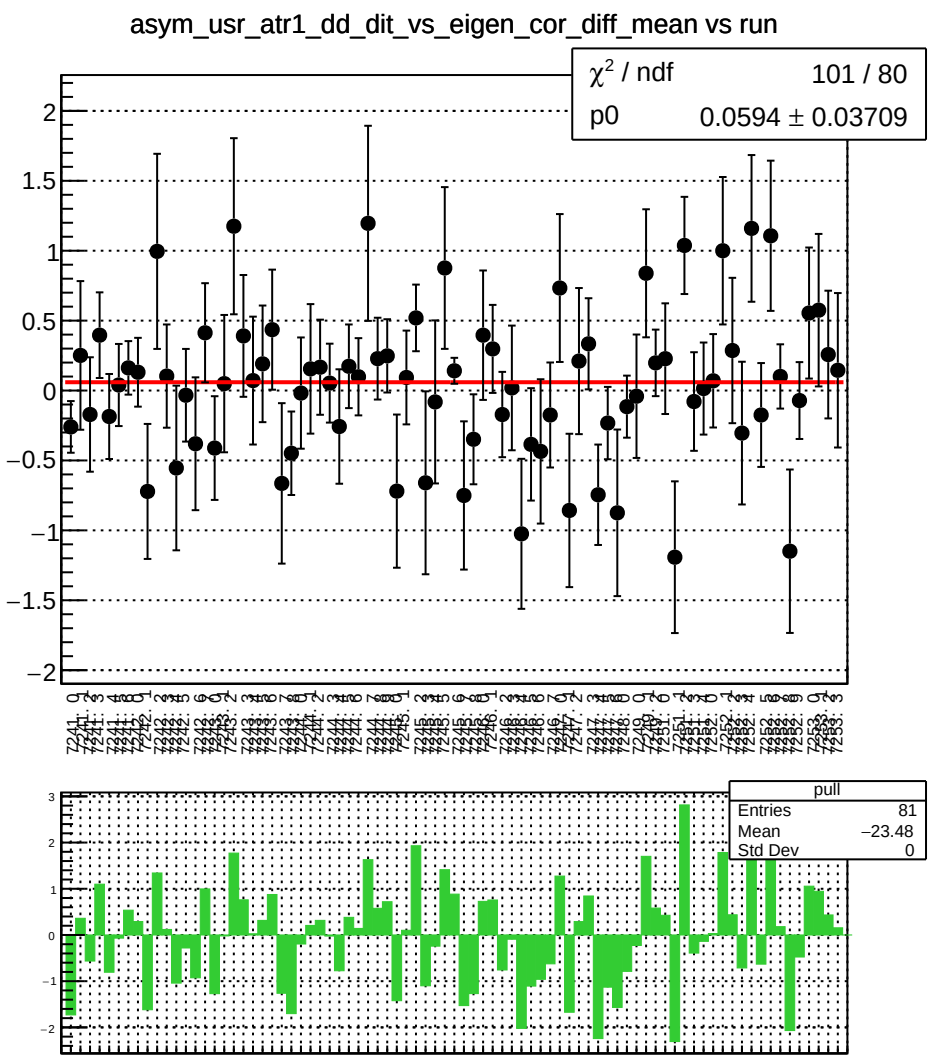

pull1D
Entries 81
Mean −0.06718
Std Dev 0.9464
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

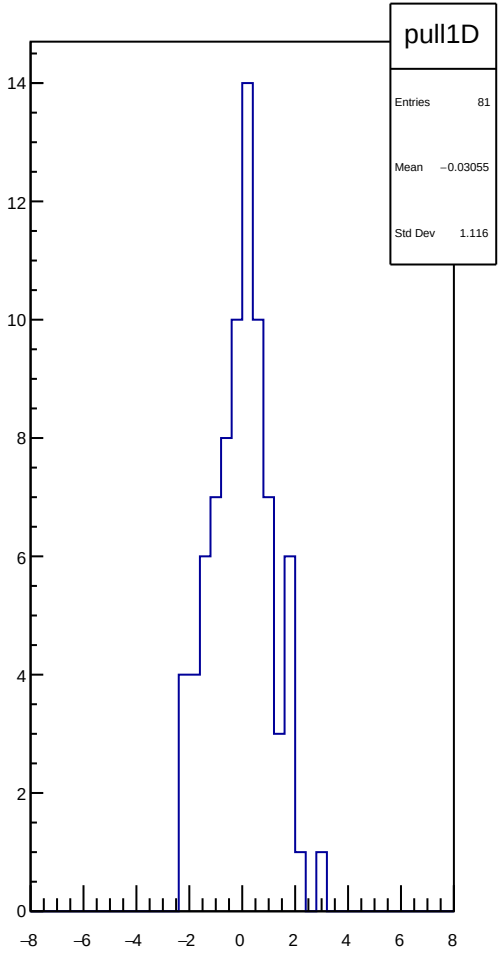

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.466e+05 / 80
p0 1.426e−11 ± 1.837e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

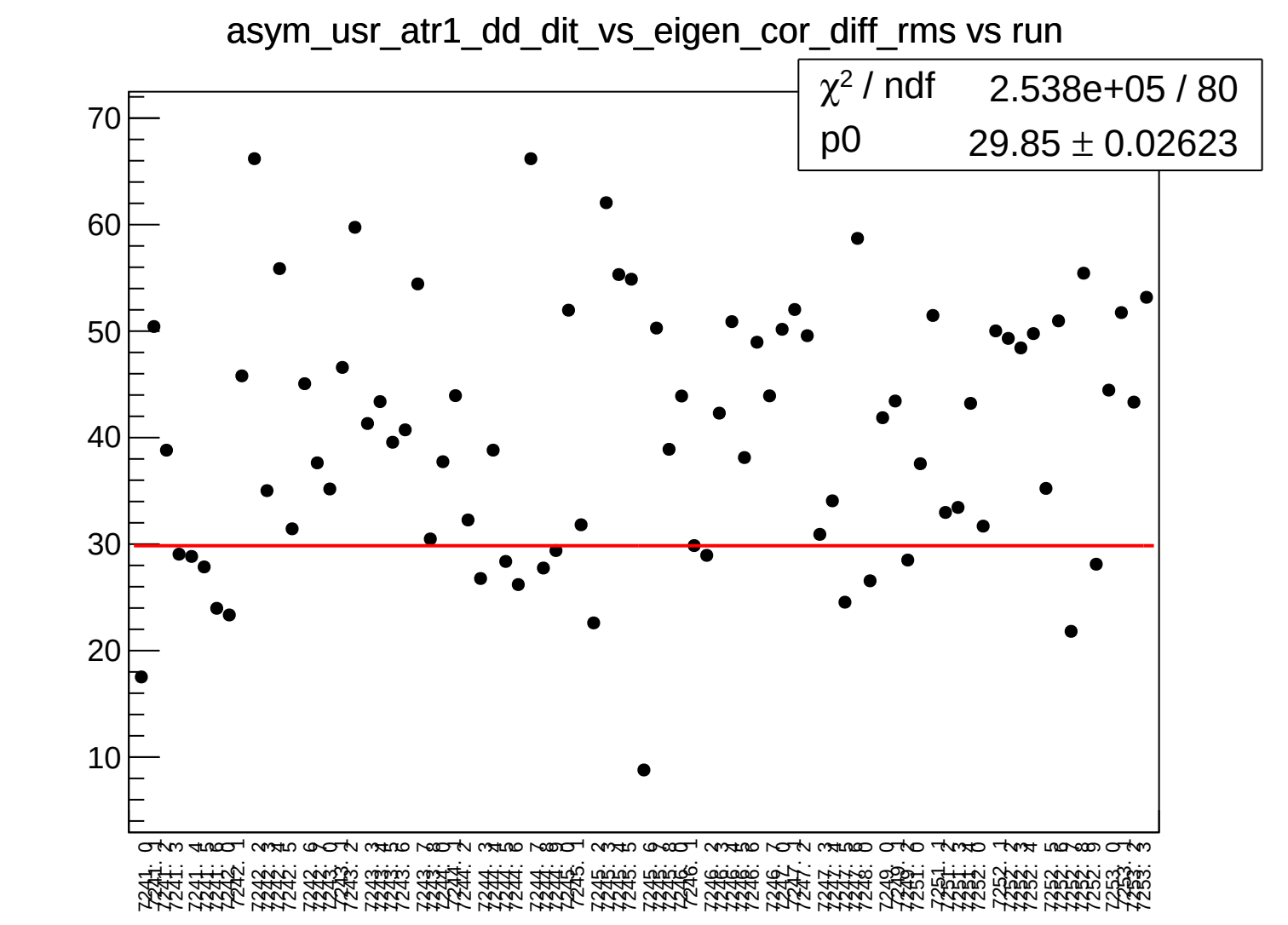

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 101 / 80
p0 0.0594 ± 0.03709
pull
Entries 81
Mean −23.48
Std Dev 0

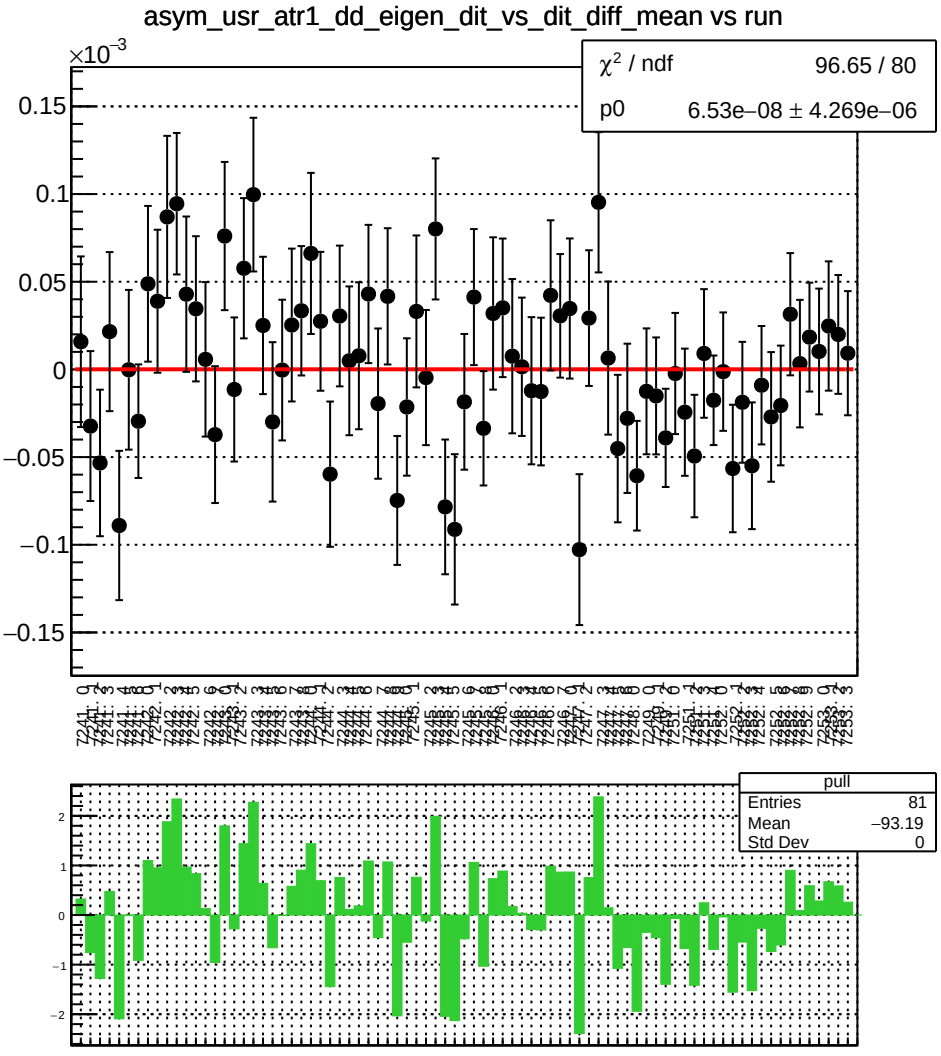

pull1D
Entries 81
Mean −0.03055
Std Dev 1.116

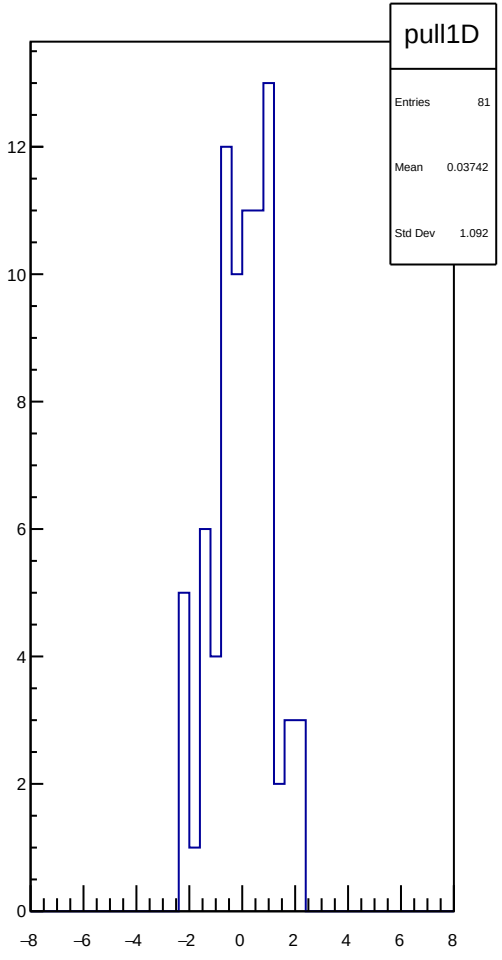

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.538e+05 / 80
p0 29.85 ± 0.02623
70
60
50
40
30
20
10

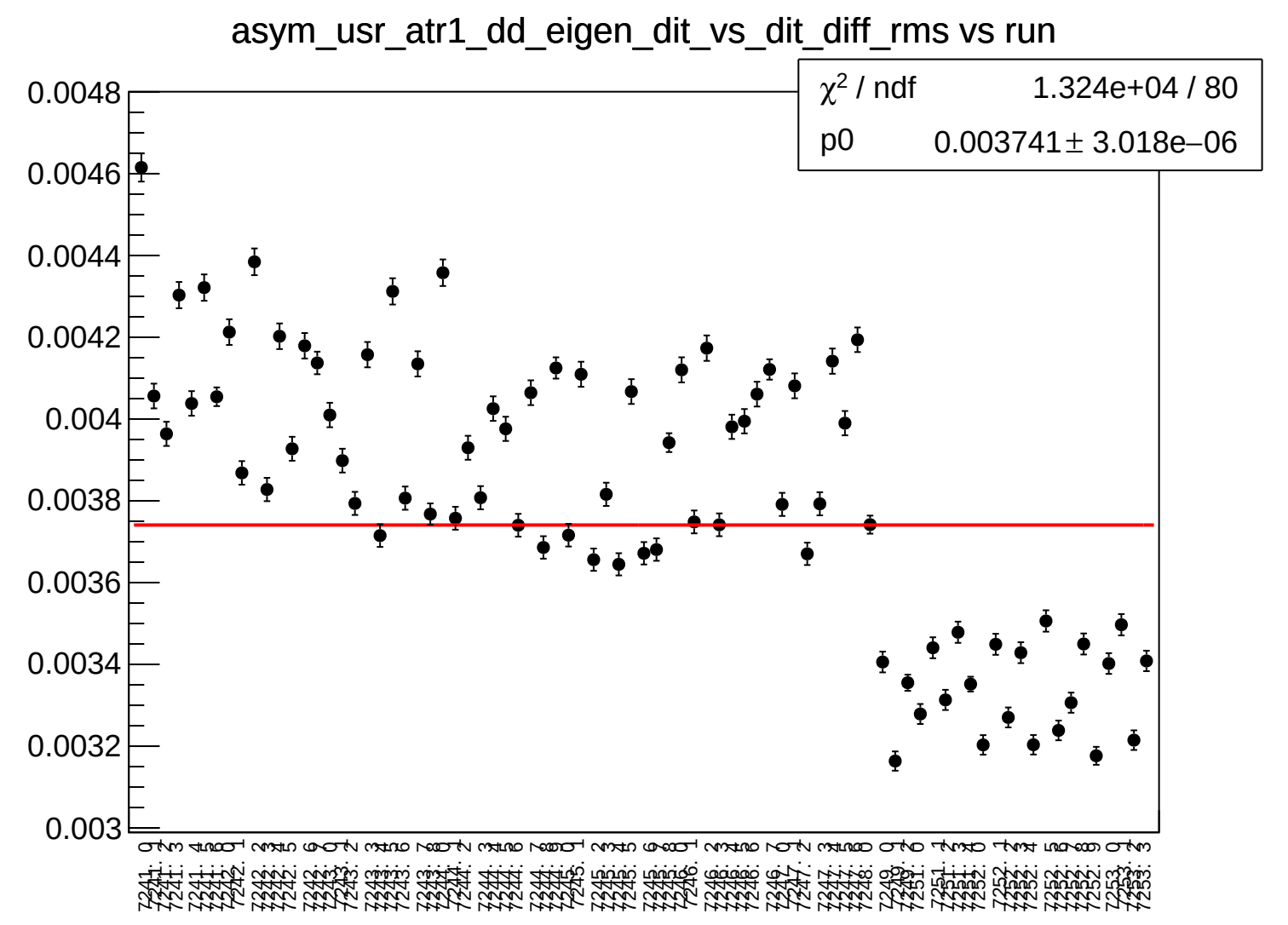

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101 / 80
p0 0.0594 ± 0.03709
pull
Entries 81
Mean −23.48
Std Dev 0

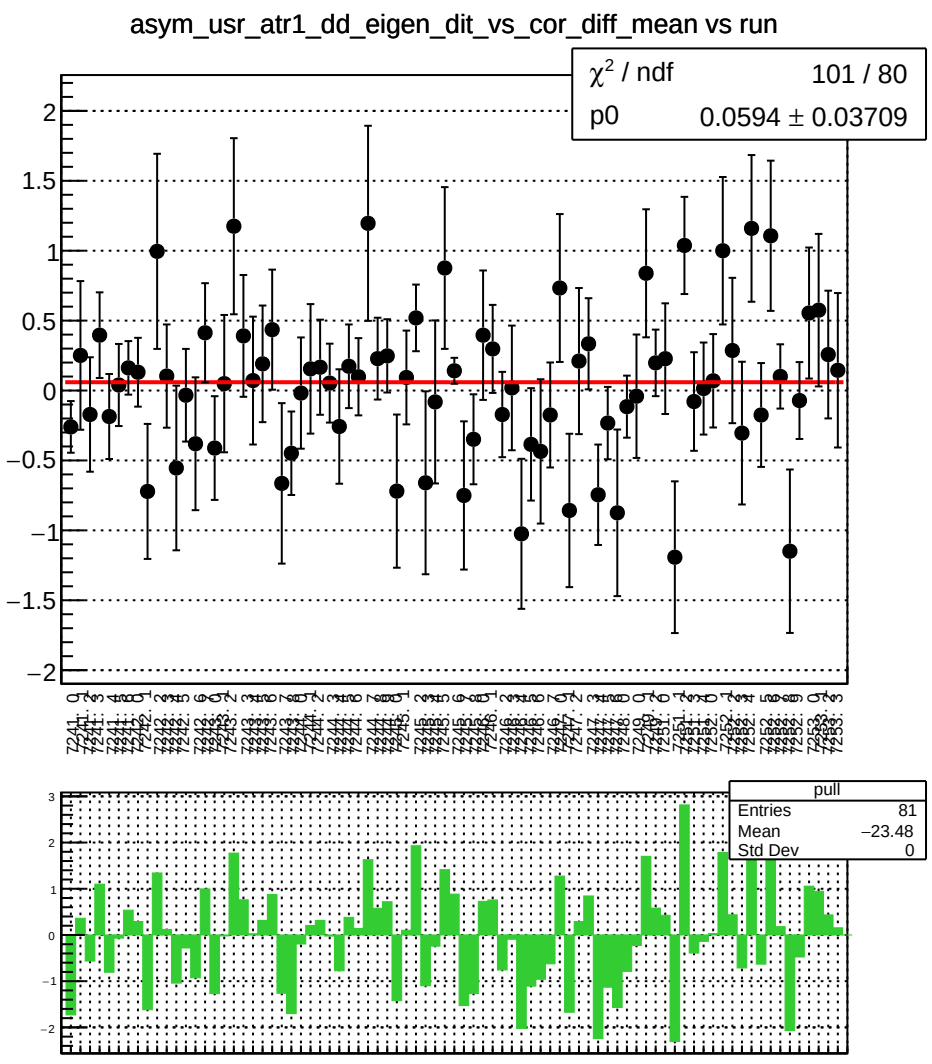

pull1D
Entries 81
Mean −0.03055
Std Dev 1.116

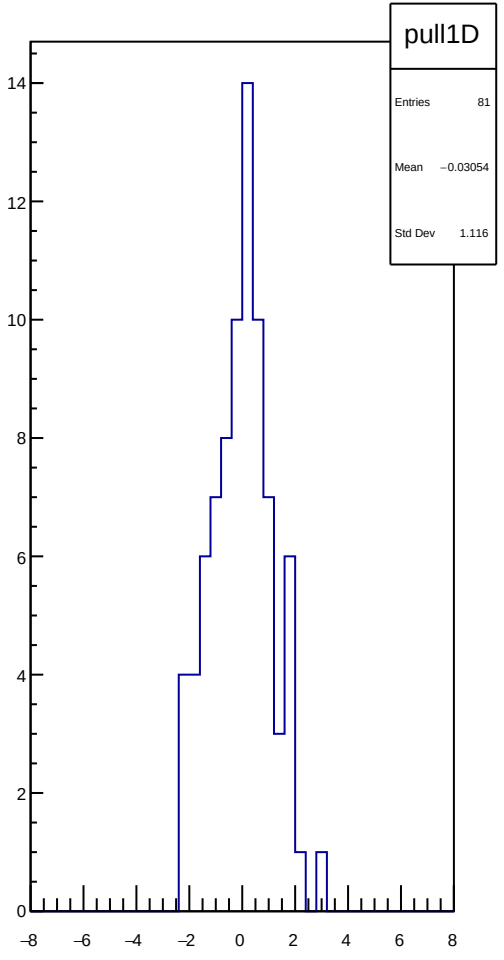

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.538e+05 / 80
p0 29.85 ± 0.02623
70
60
50
40
30
20
10

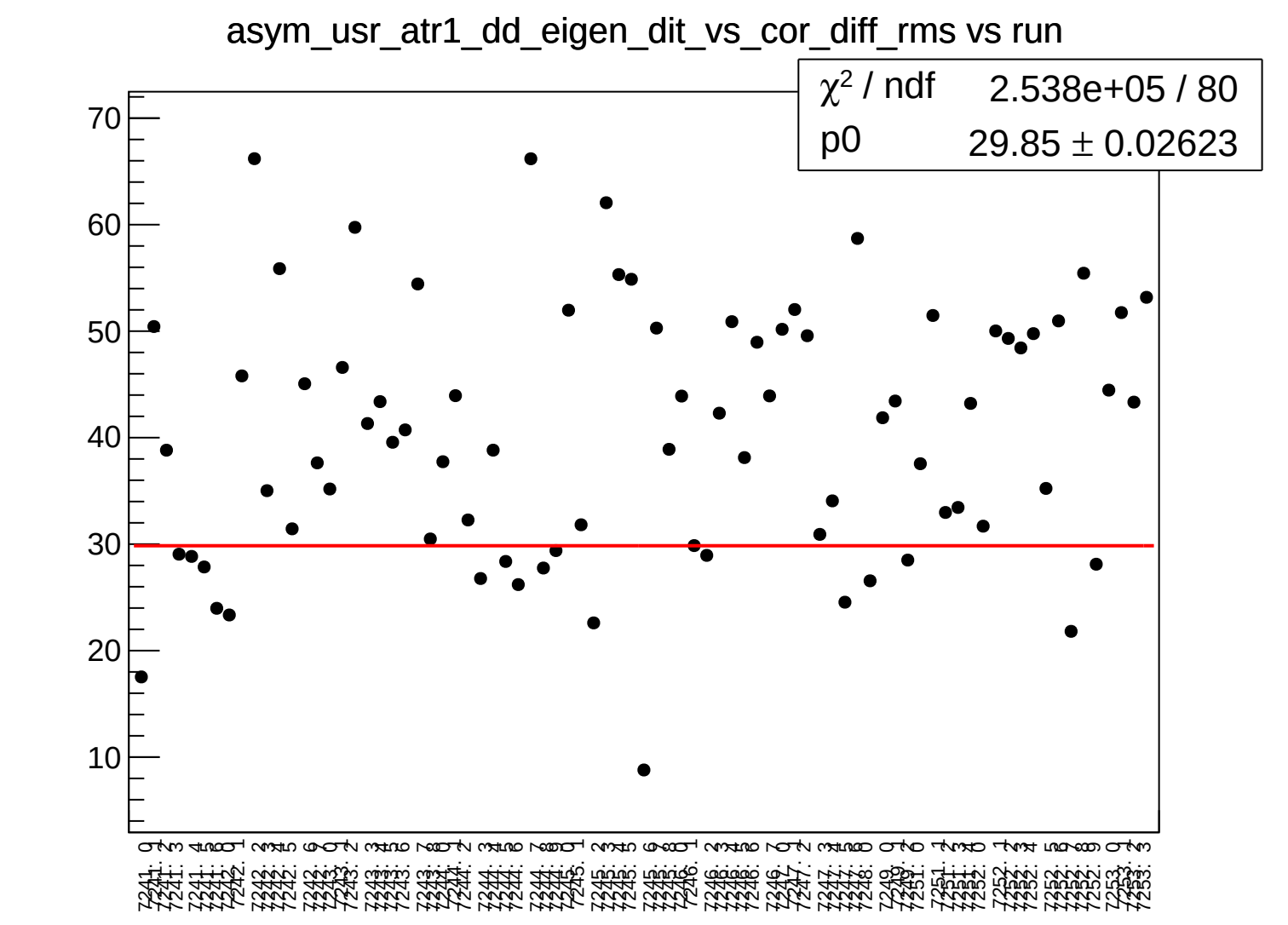

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.65 / 80
p0 6.53e−08 ± 4.269e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 81
Mean −93.19
Std Dev 0
2
1
0
−1
−2

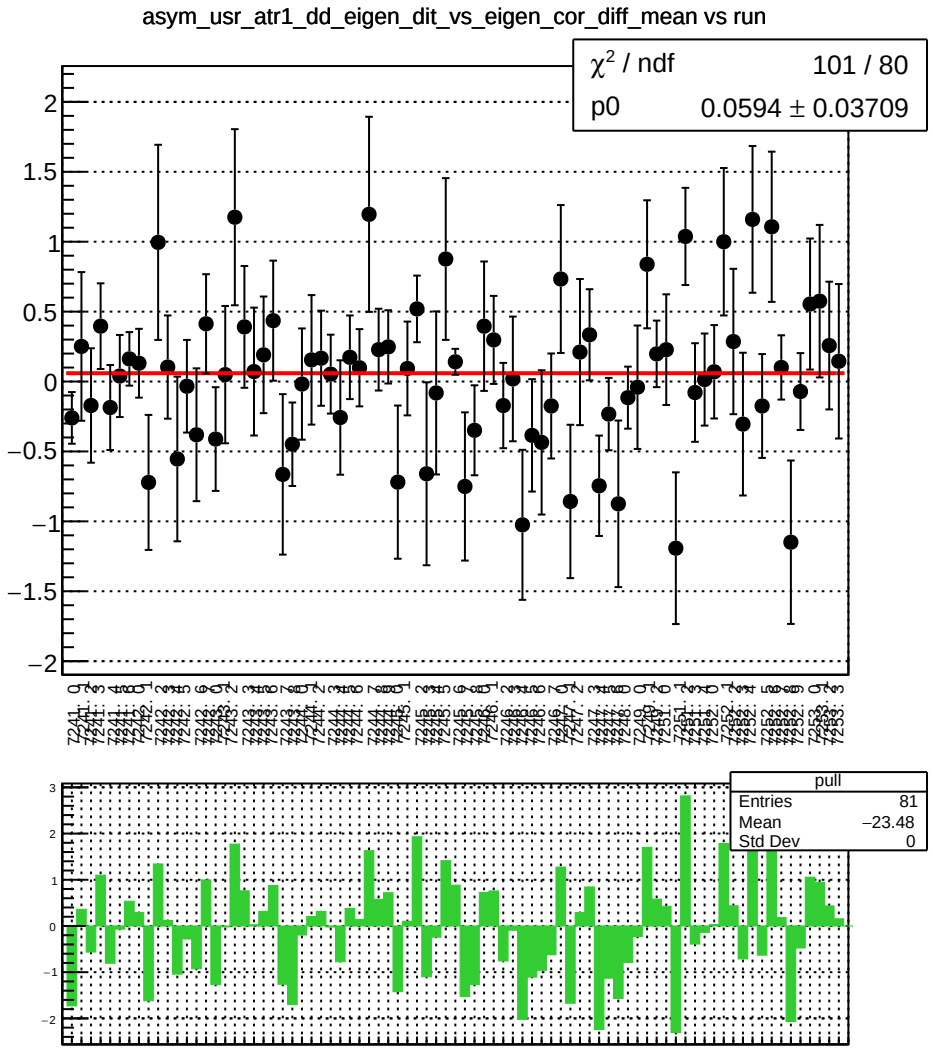

pull1D
Entries 81
Mean 0.03742
Std Dev 1.092
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

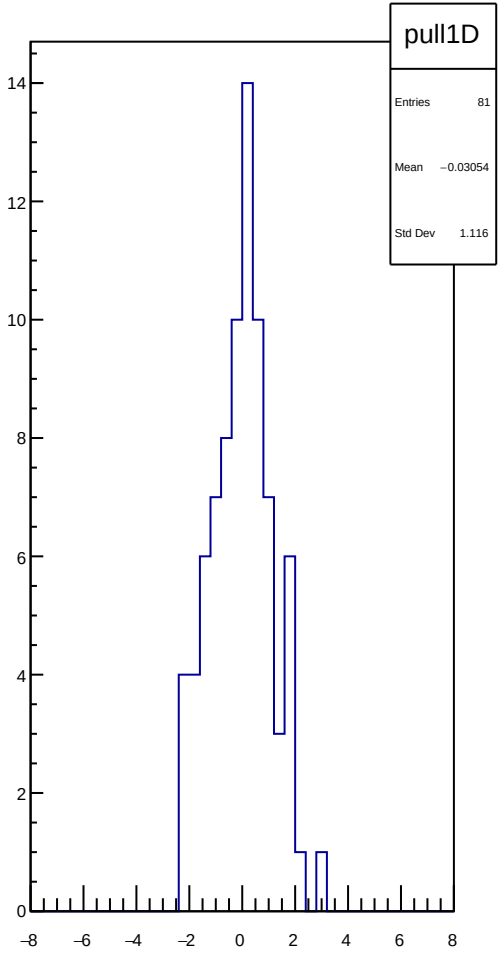

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.324e+04 / 80
p0 0.003741 ± 3.018e−06
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003

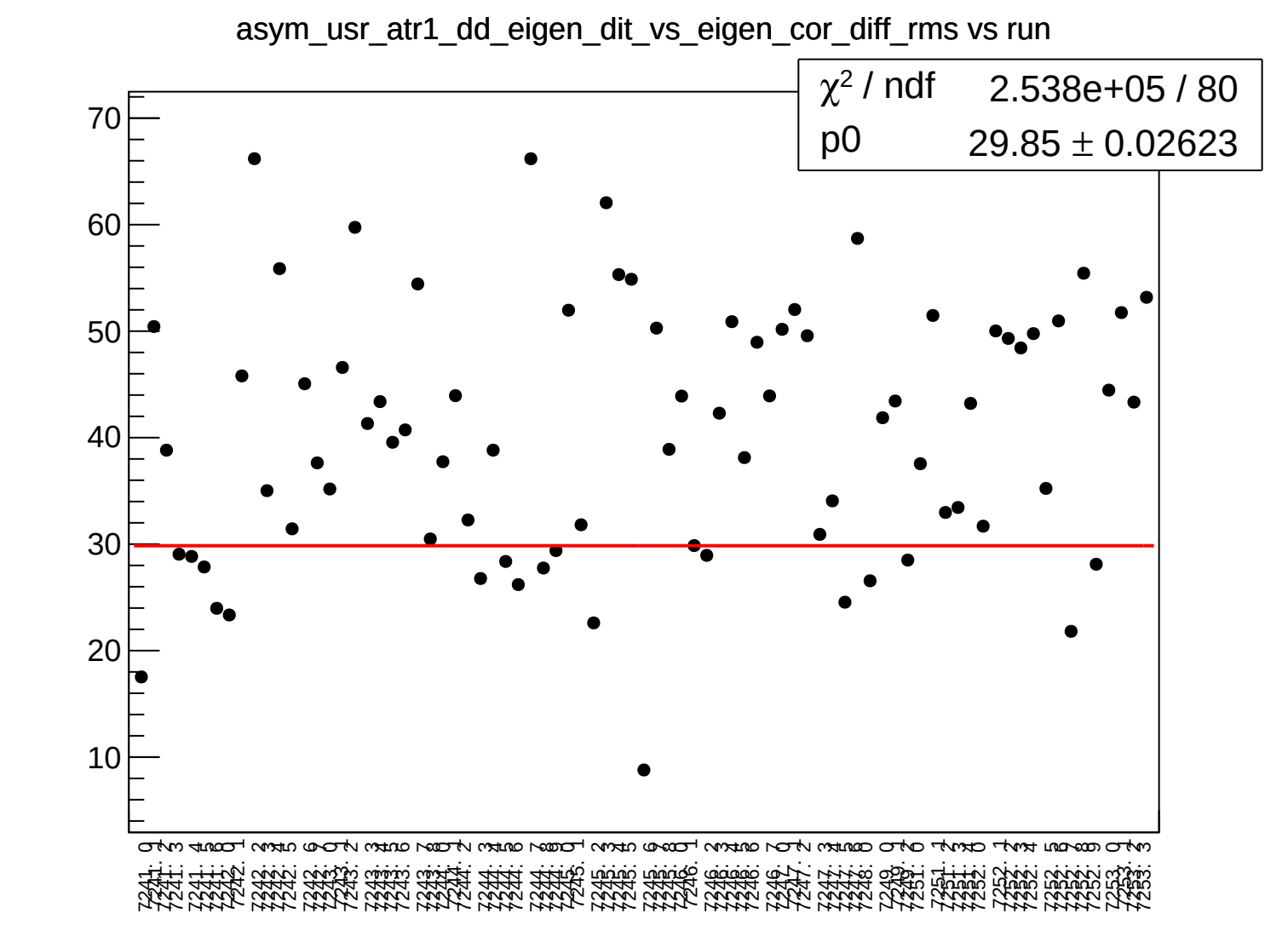

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101 / 80
p0 0.0594 ± 0.03709
pull
Entries 81
Mean −23.48
Std Dev 0

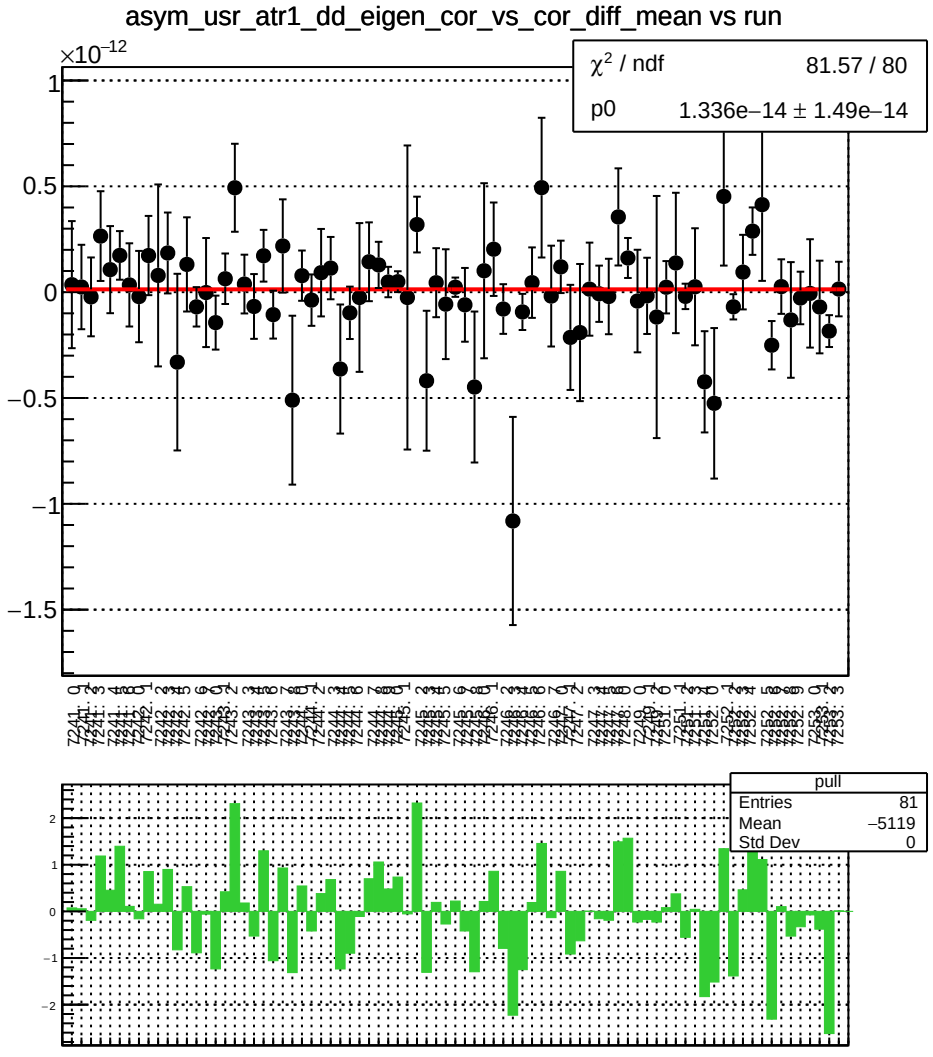

pull1D
Entries 81
Mean −0.03054
Std Dev 1.116

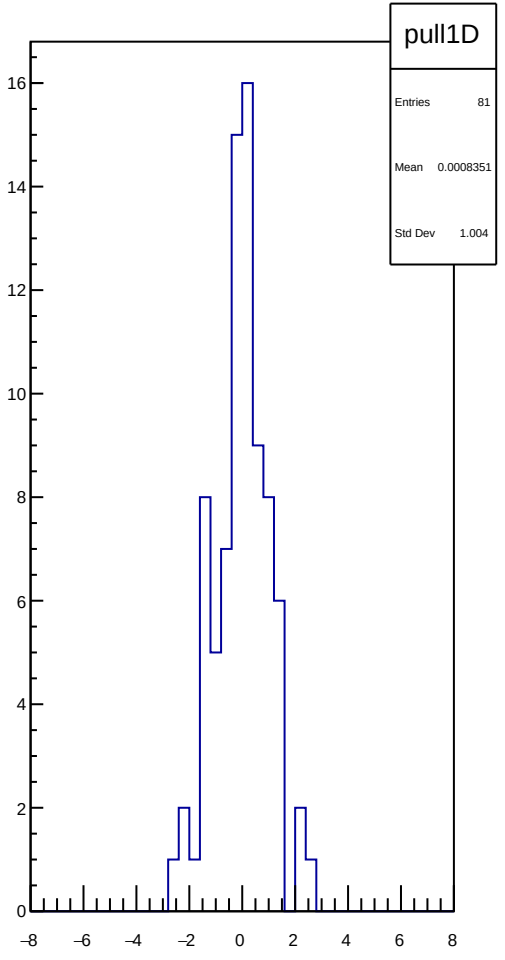

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.538e+05 / 80
p0 29.85 ± 0.02623
70
60
50
40
30
20
10

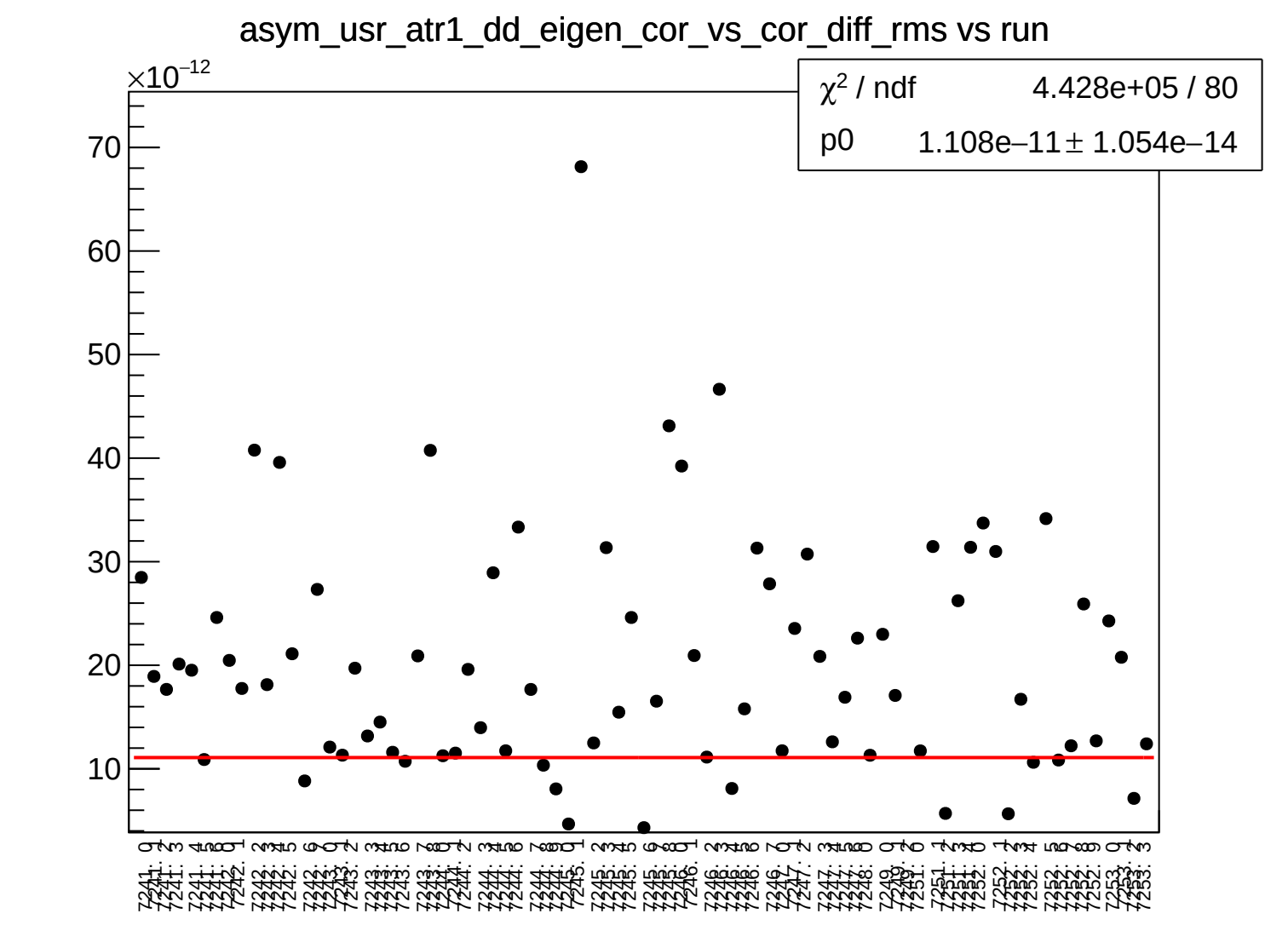

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101 / 80
p0 0.0594 ± 0.03709
pull
Entries 81
Mean −23.48
Std Dev 0

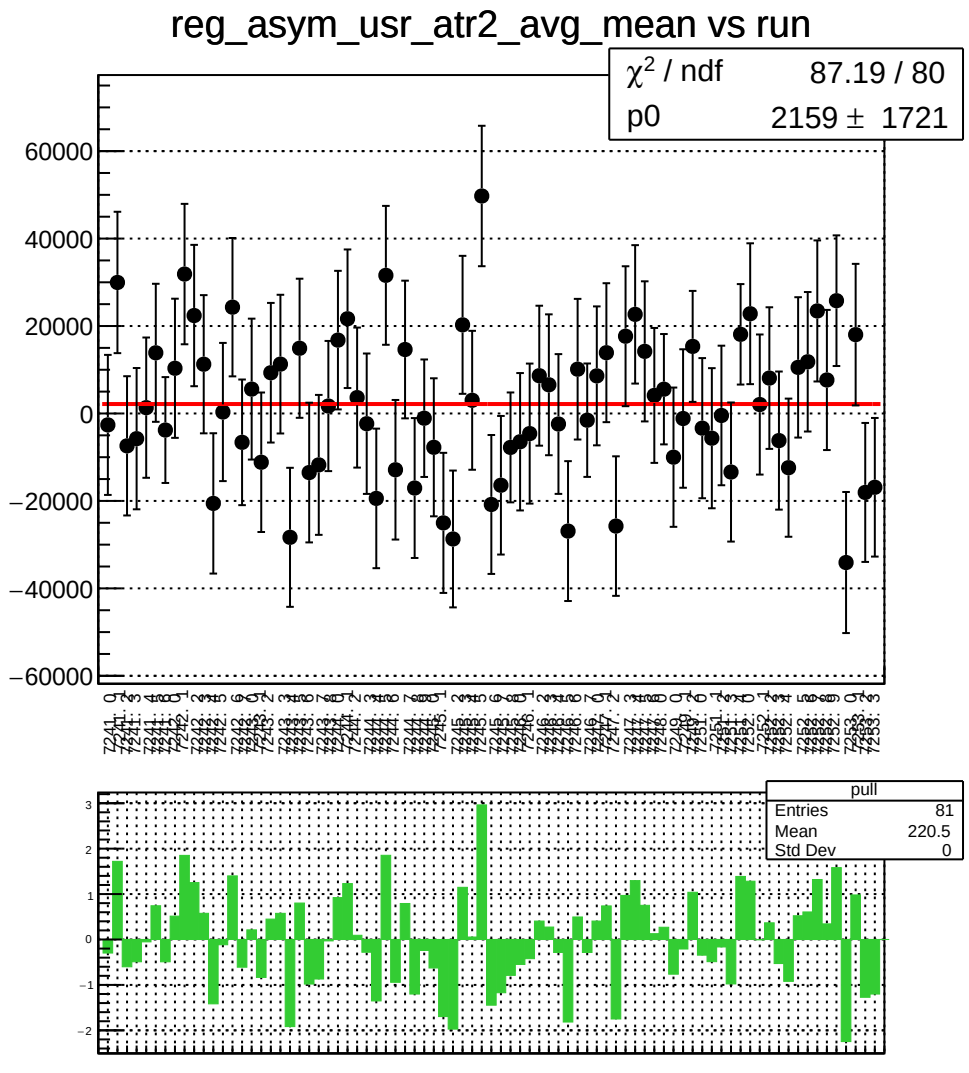

pull1D
Entries 81
Mean −0.03054
Std Dev 1.116

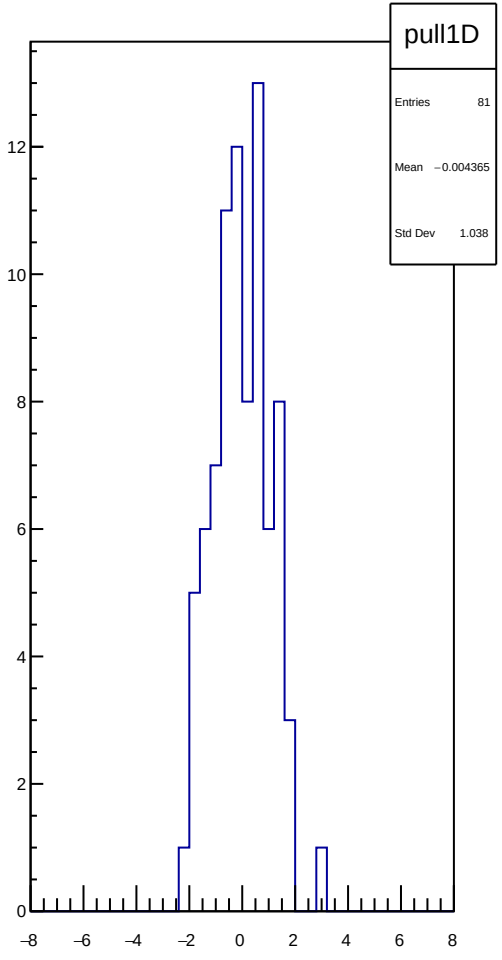

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.538e+05 / 80
p0 29.85 ± 0.02623
70
60
50
40
30
20
10

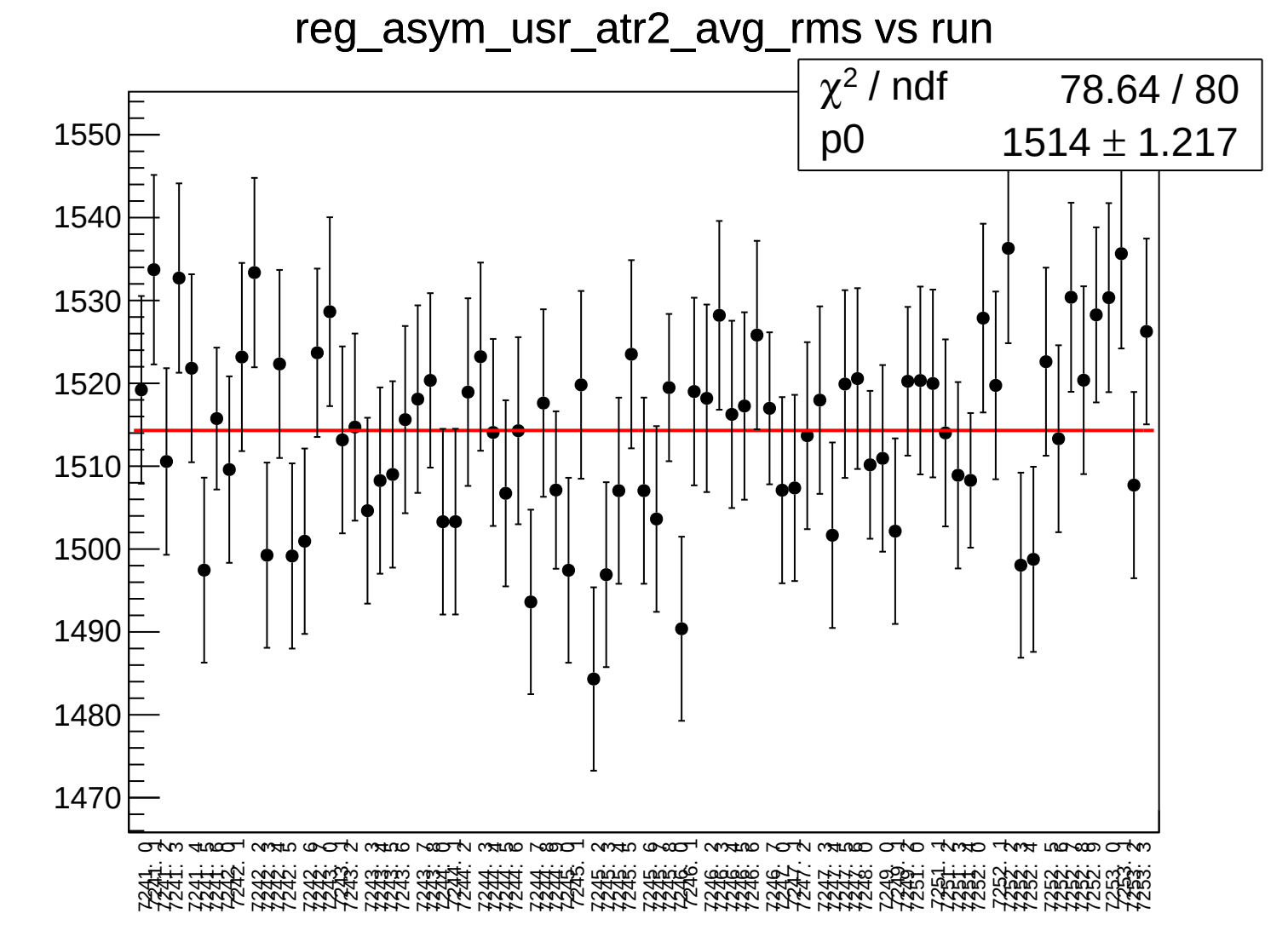

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.57 / 80
p0 1.336e−14 ± 1.49e−14
pull
Entries 81
Mean −5119
Std Dev 0

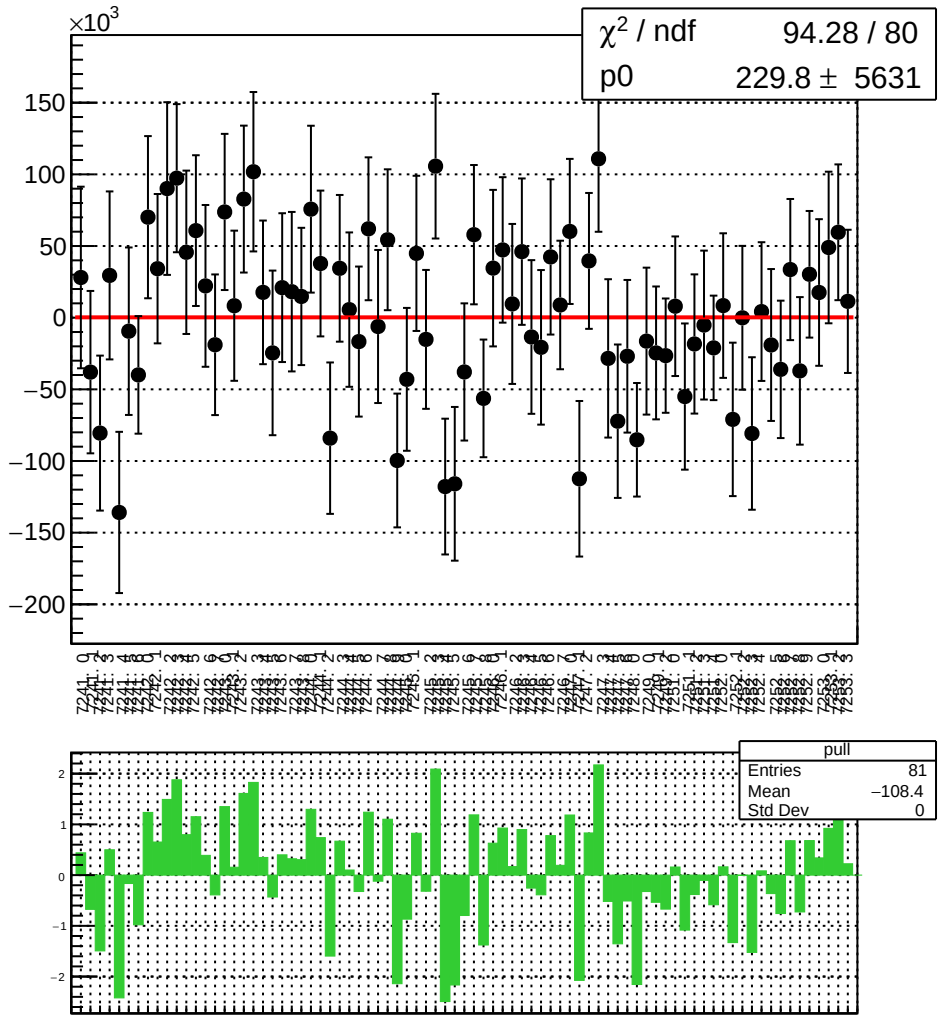

pull1D
Entries 81
Mean 0.0008351
Std Dev 1.004

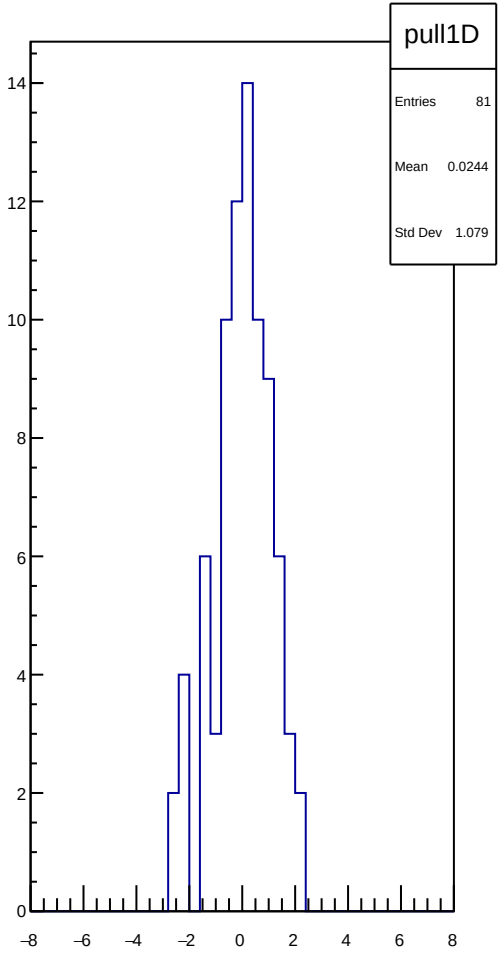

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.428e+05 / 80
p0 1.108e−11 ± 1.054e−14
70
60
50
40
30
20
10

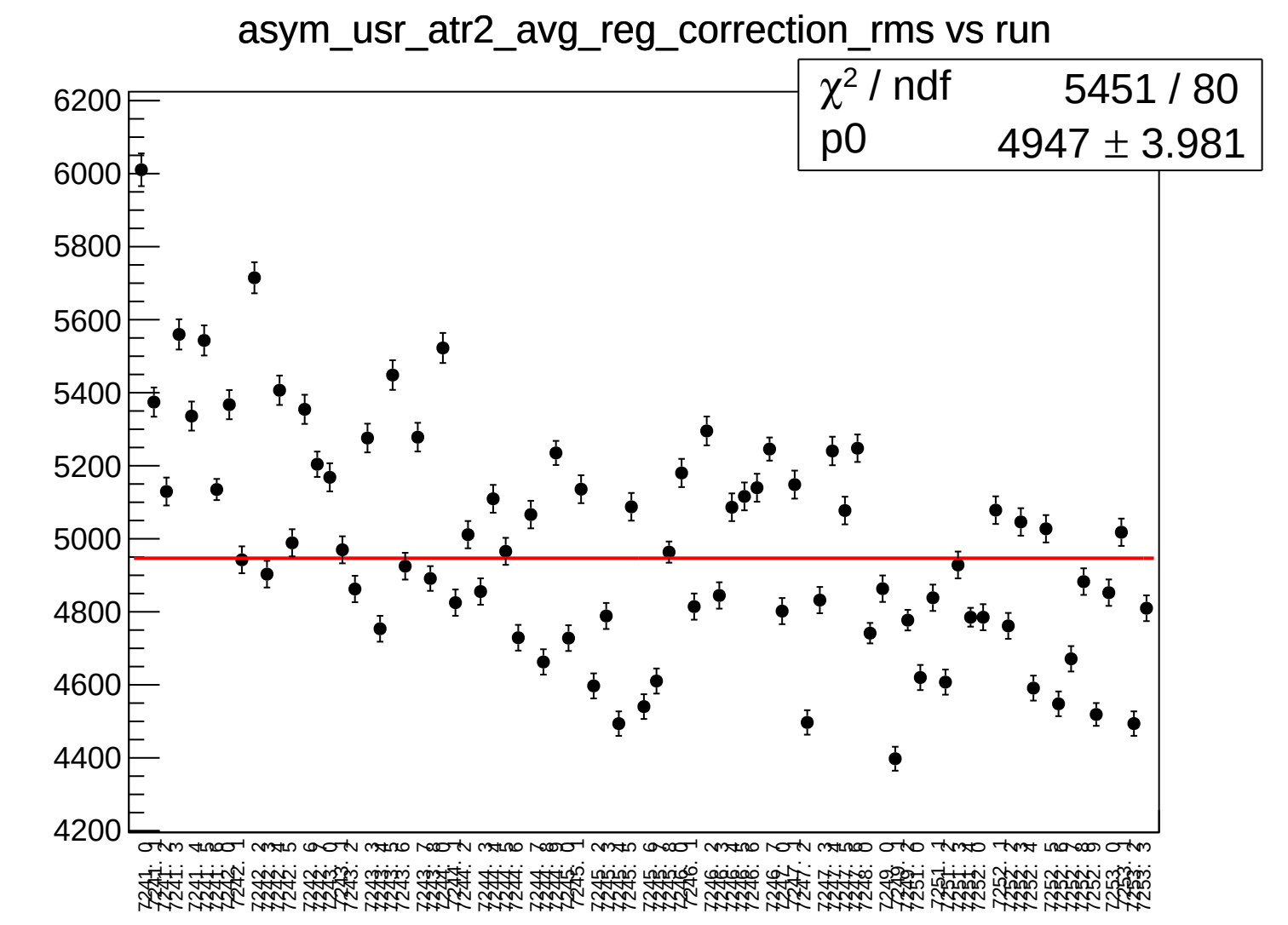

reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 87.19 / 80
p0 2159 ± 1721
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean 220.5
Std Dev 0
3
2
1
0
−1
−2

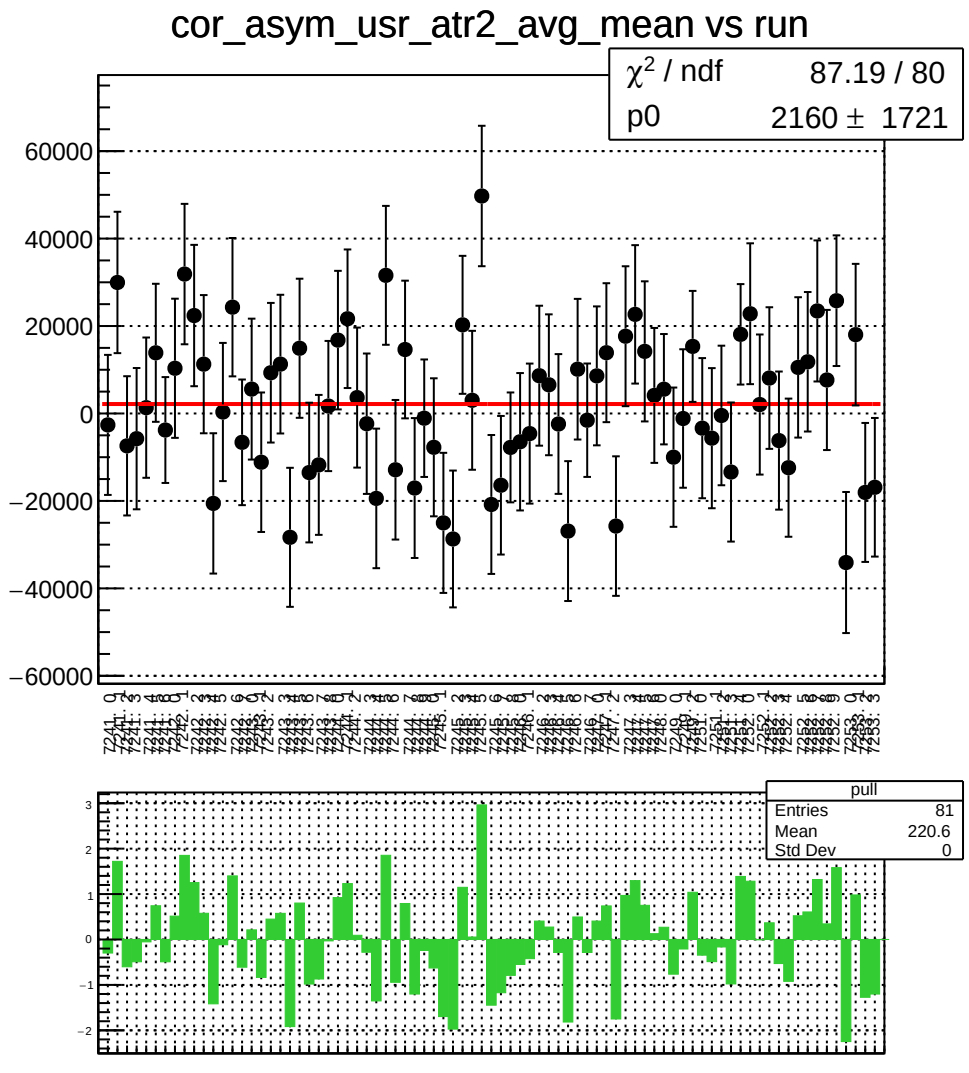

pull1D
Entries 81
Mean −0.004365
Std Dev 1.038
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

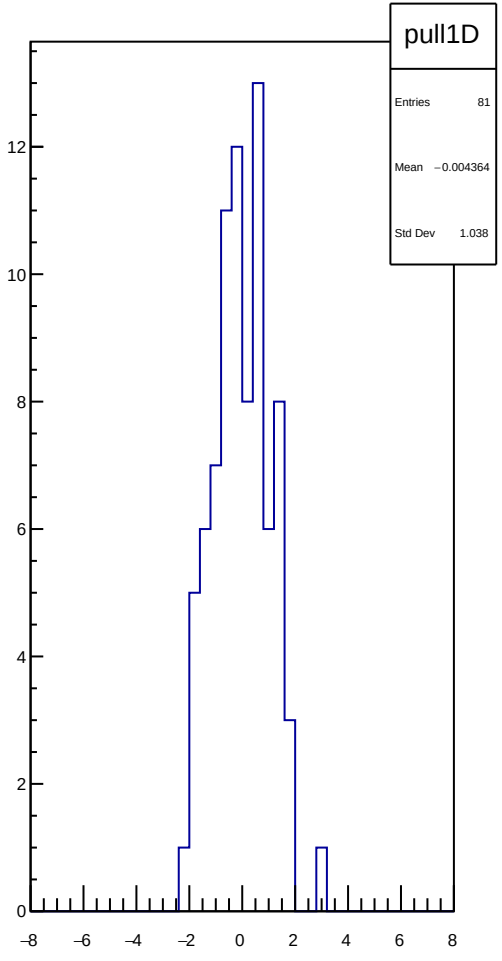

reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 78.64 / 80
p0 1514 ± 1.217
1550
1540
1530
1520
1510
1500
1490
1480
1470

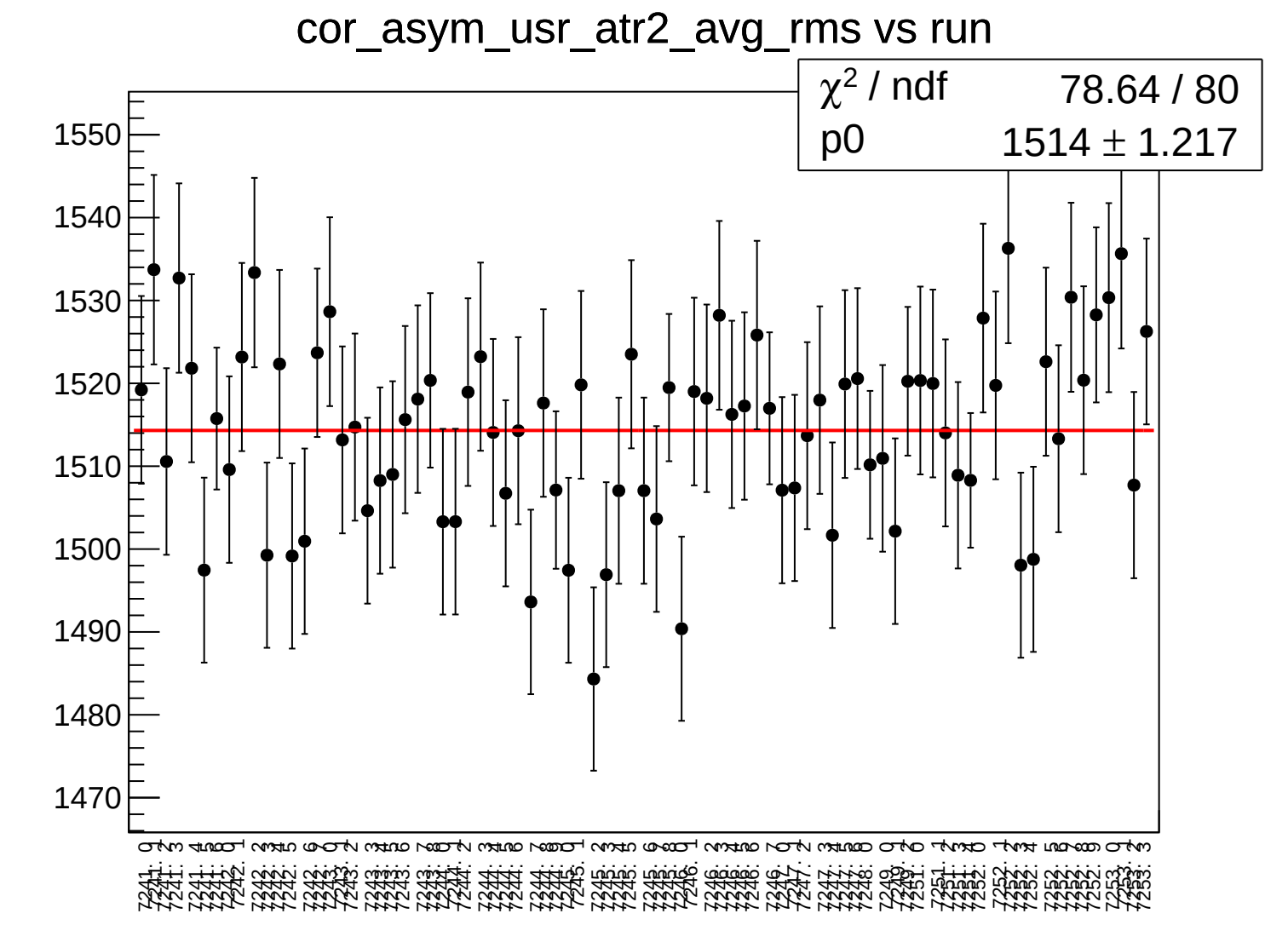

asym_usr_atr2_avg_reg_correction_mean vs run
χ² / ndf 94.28 / 80
p0 229.8 ± 5631
×10³
150
100
50
0
−50
−100
−150
−200
pull
Entries 81
Mean −108.4
Std Dev 0
2
1
0
−1
−2

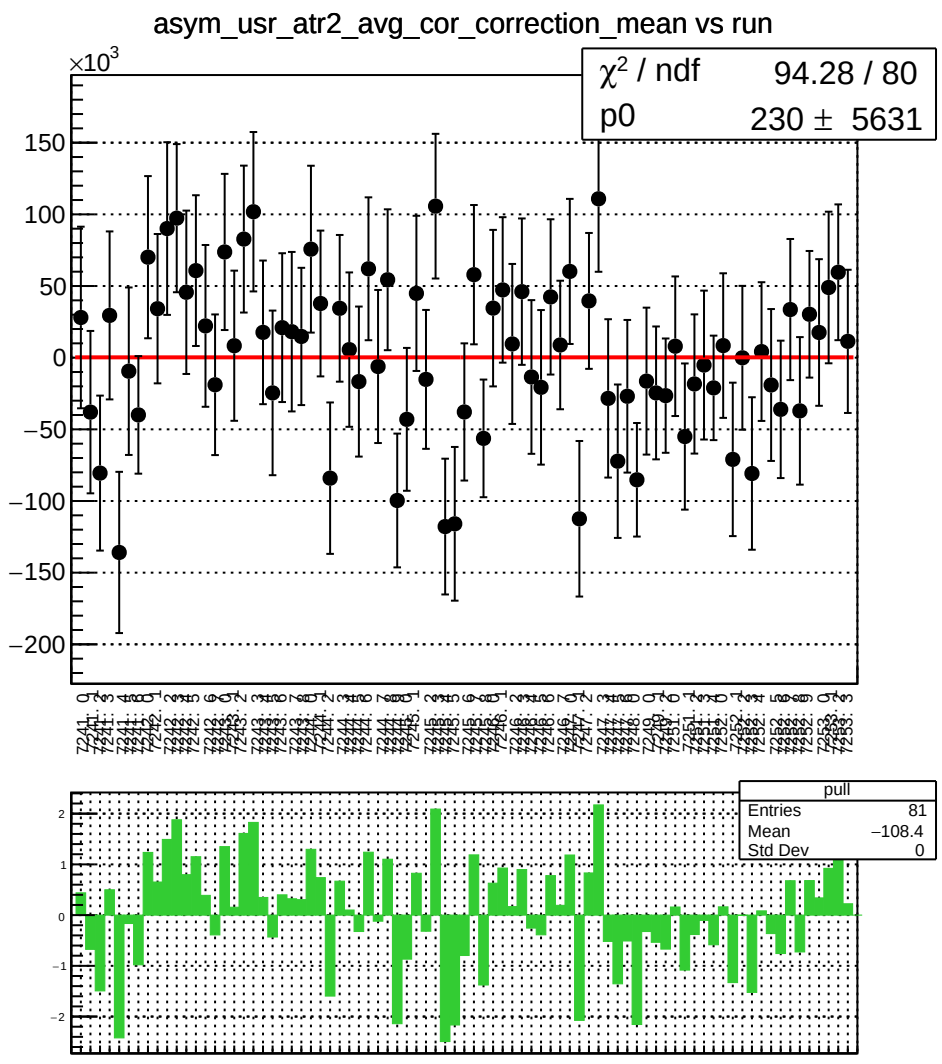

pull1D
Entries 81
Mean 0.0244
Std Dev 1.079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

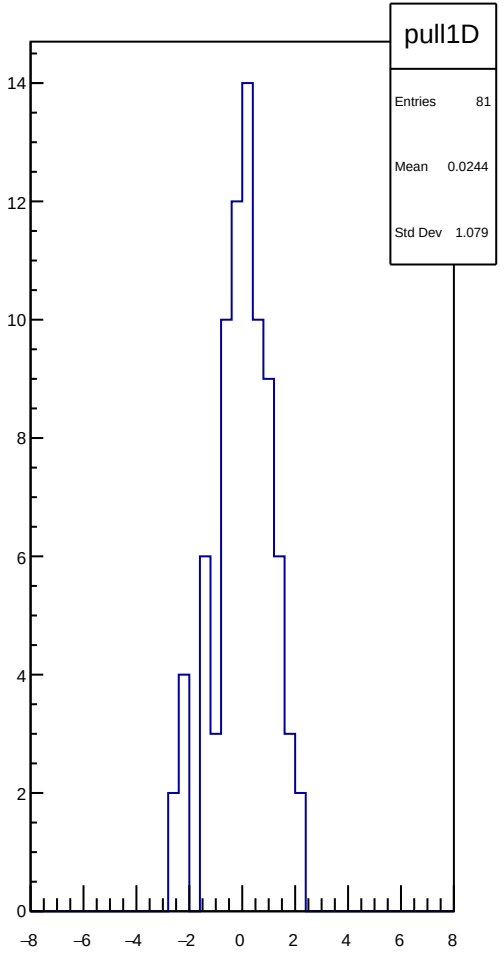

asym_usr_atr2_avg_reg_correction_rms vs run
χ² / ndf 5451 / 80
p0 4947 ± 3.981
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

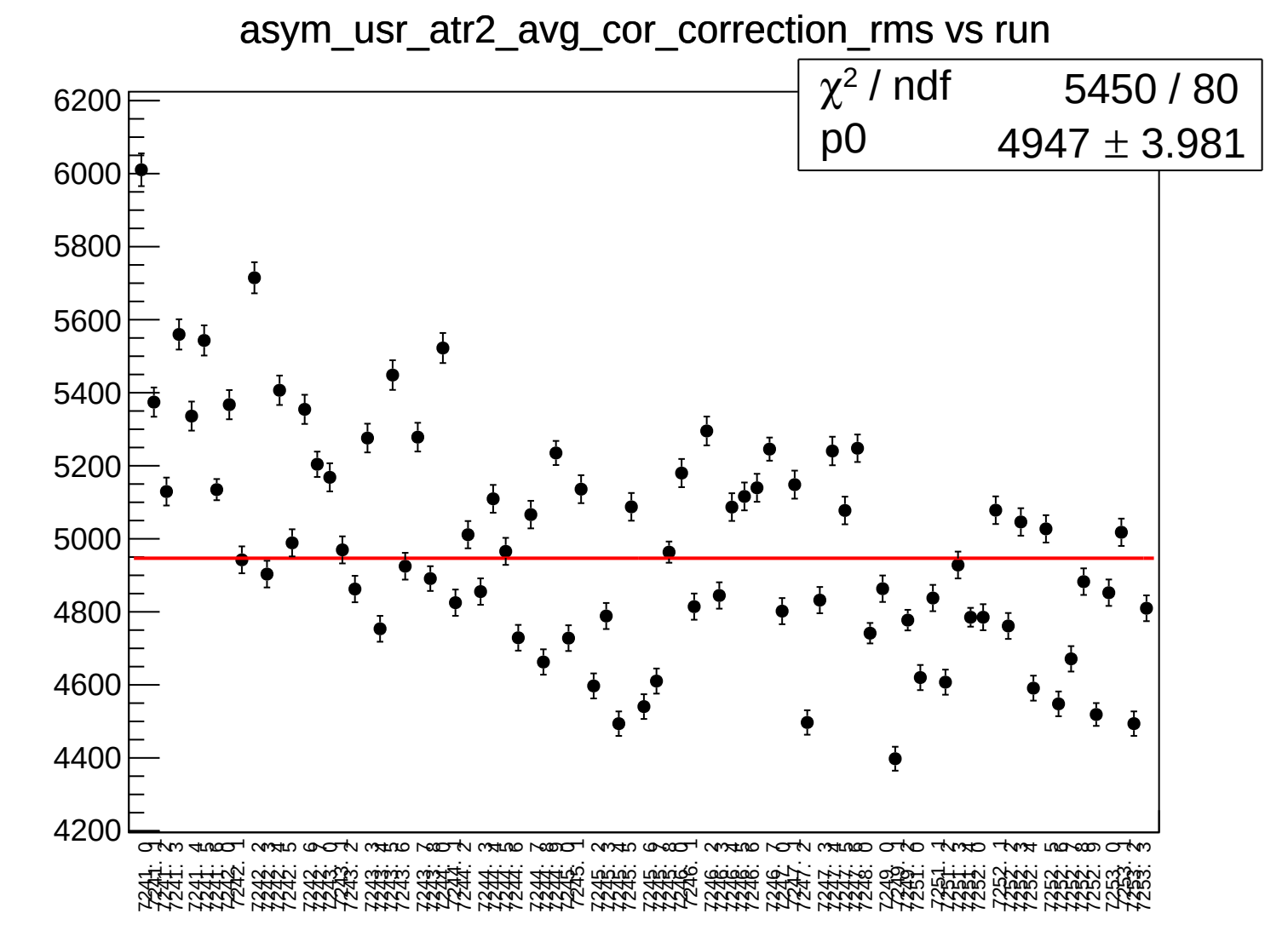

cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 87.19 / 80
p0 2160 ± 1721
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean 220.6
Std Dev 0
3
2
1
0
−1
−2

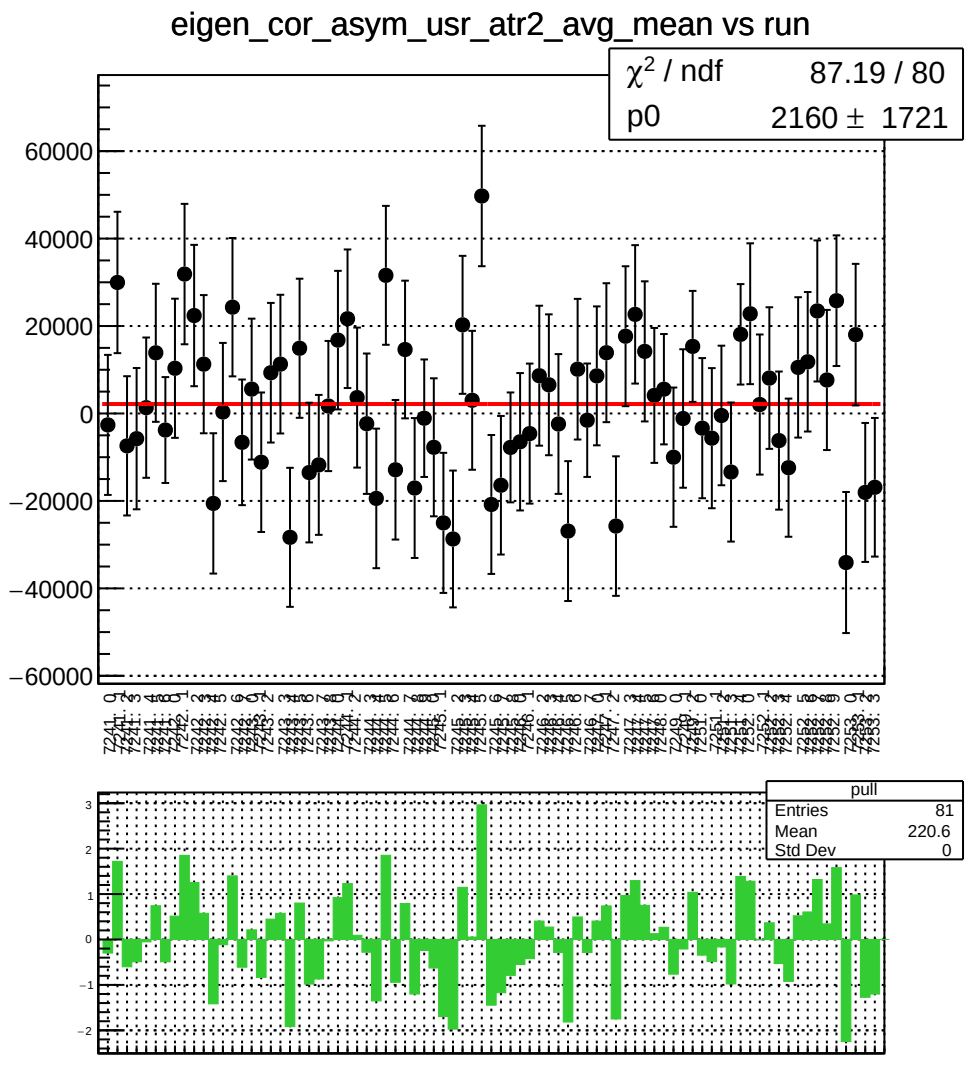

pull1D
Entries 81
Mean −0.004364
Std Dev 1.038
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

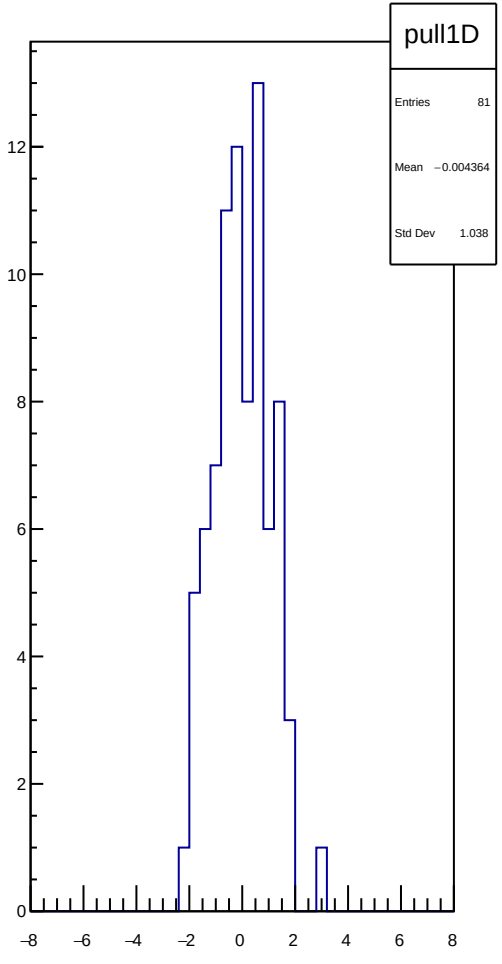

cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 78.64 / 80
p0 1514 ± 1.217
1550
1540
1530
1520
1510
1500
1490
1480
1470

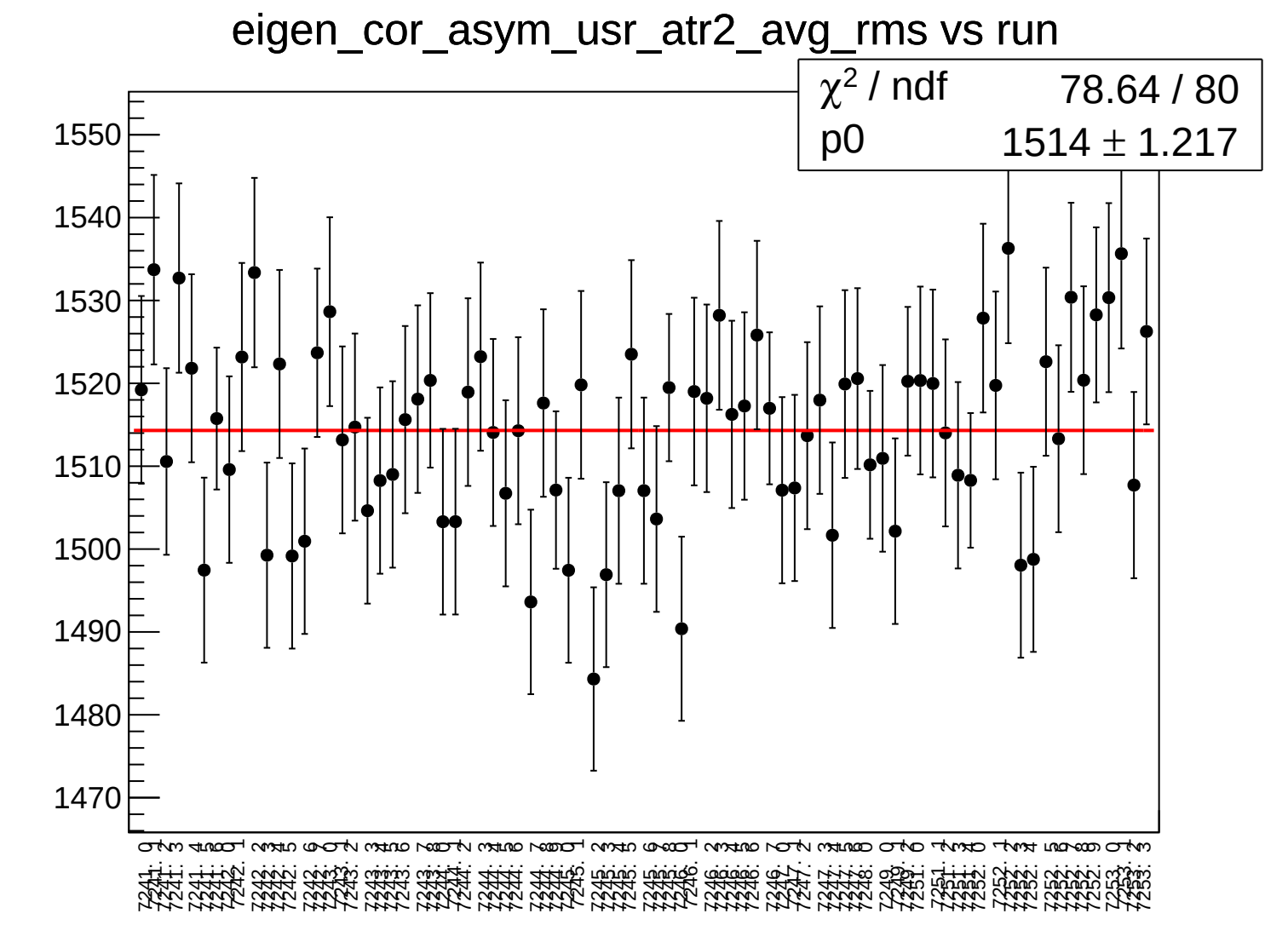

asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 94.28 / 80
p0 230 ± 5631
150
100
50
0
−50
−100
−150
−200
pull
Entries 81
Mean −108.4
Std Dev 0
2
1
0
−1
−2

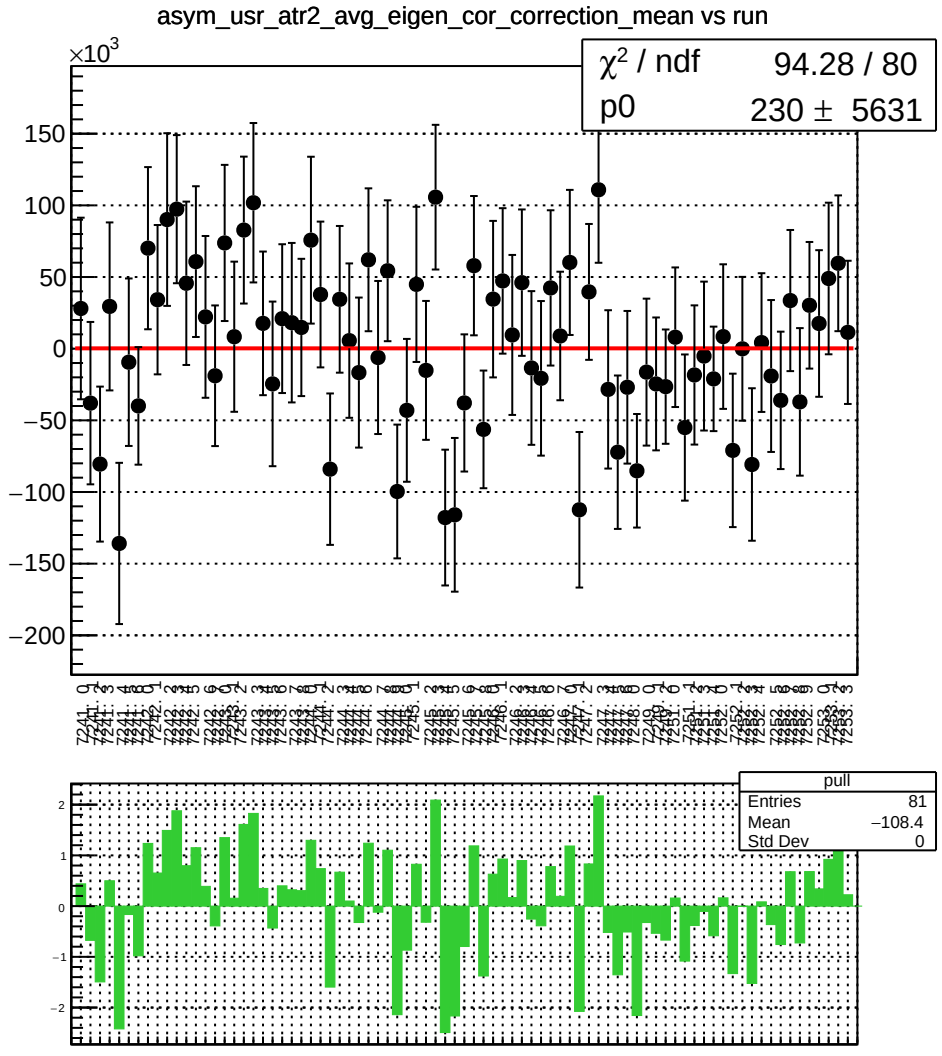

pull1D
Entries 81
Mean 0.0244
Std Dev 1.079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

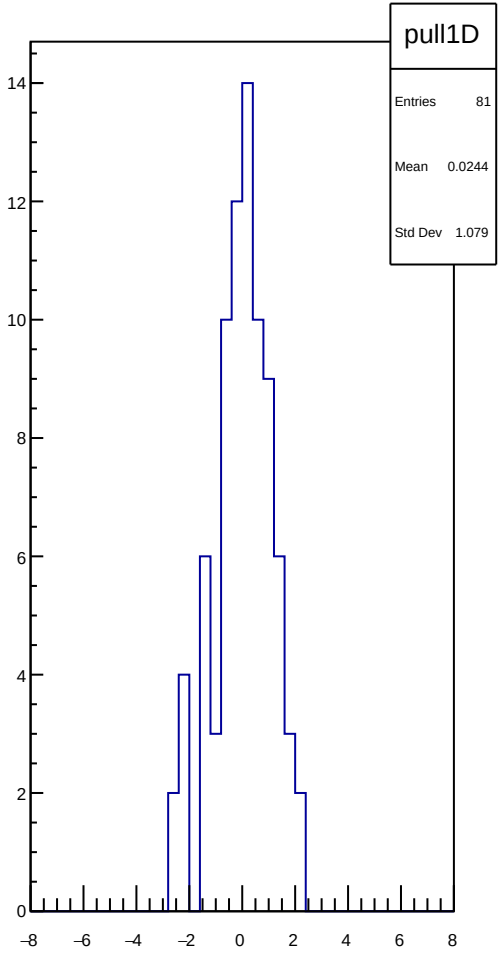

asym_usr_atr2_avg_cor_correction_rms vs run
χ² / ndf 5450 / 80
p0 4947 ± 3.981
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

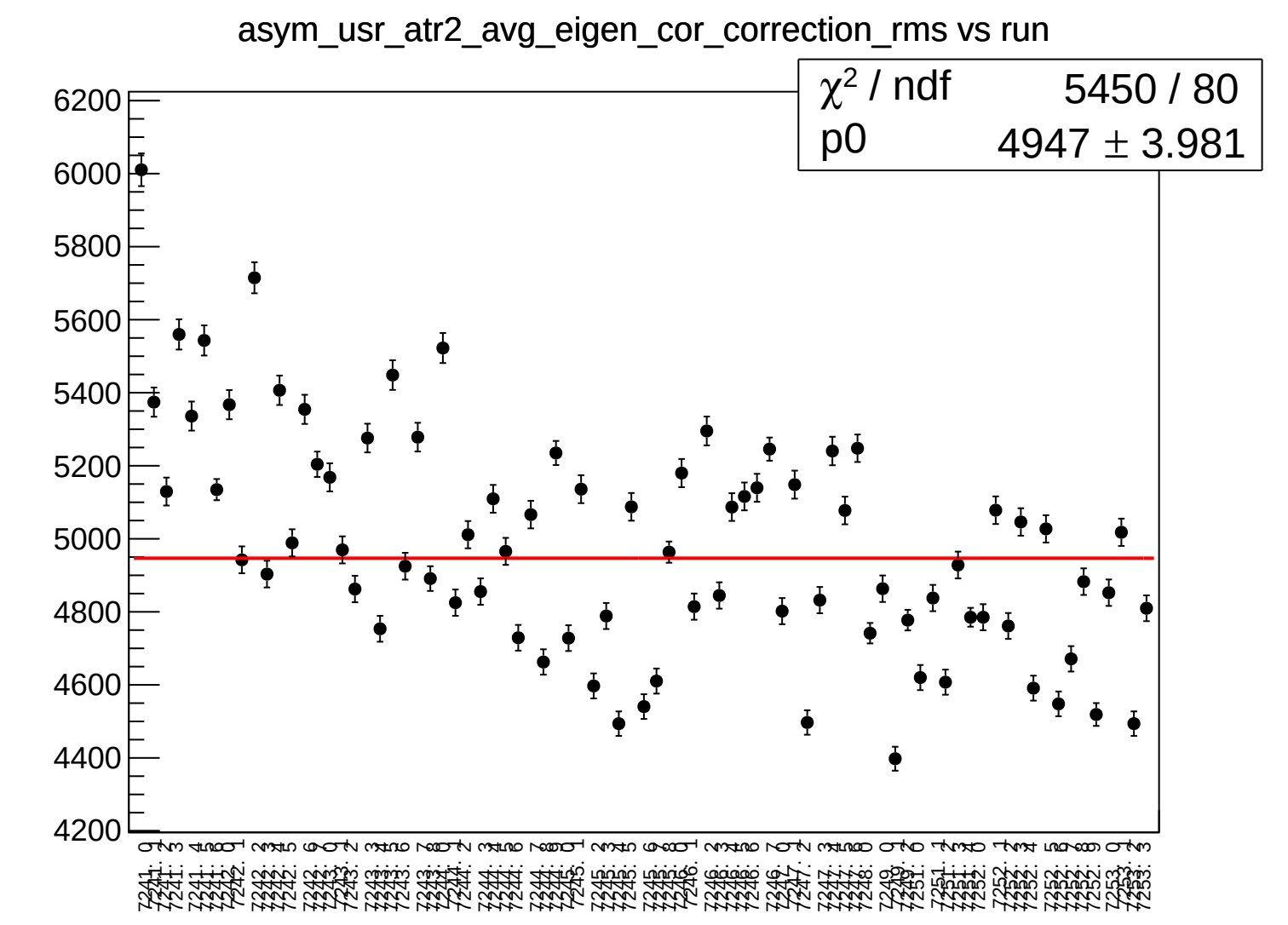

eigen_cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 87.19 / 80
p0 2160 ± 1721
pull
Entries 81
Mean 220.6
Std Dev 0

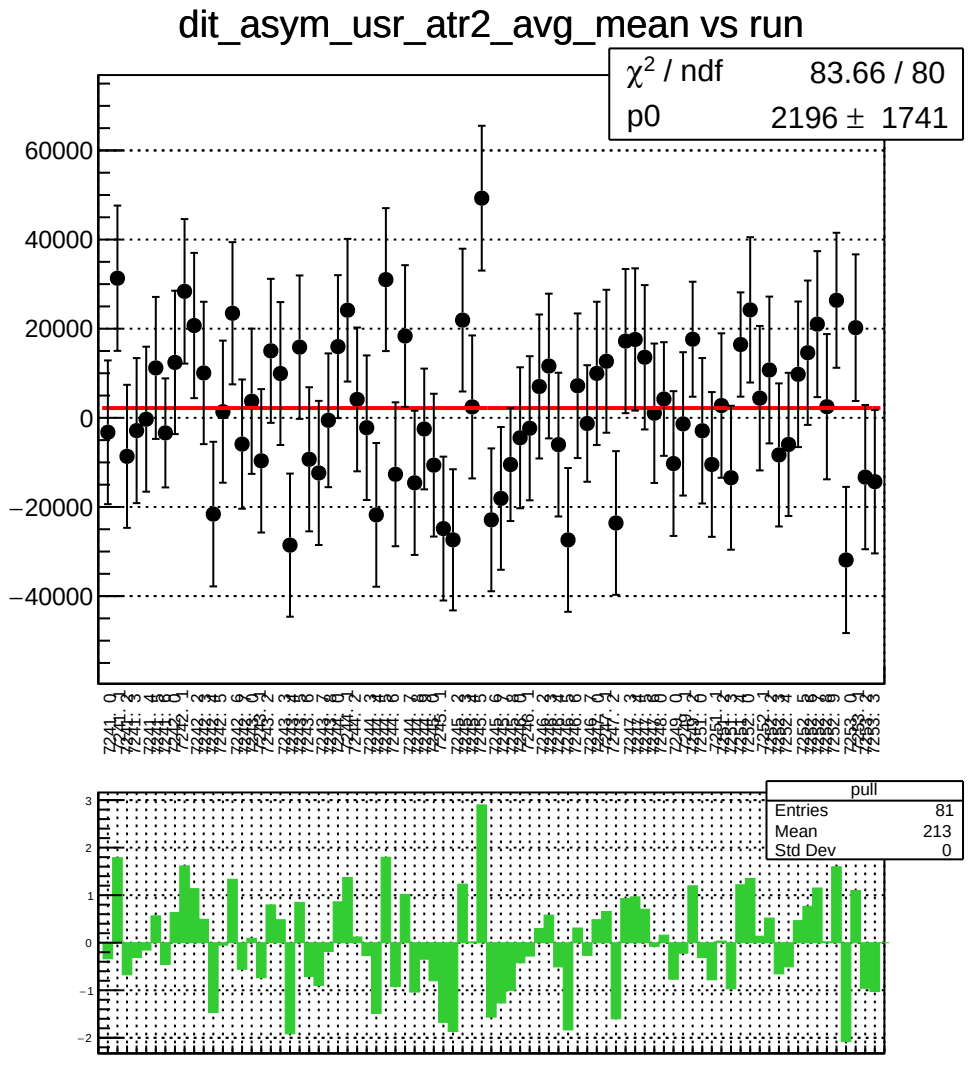

pull1D
Entries 81
Mean −0.004364
Std Dev 1.038

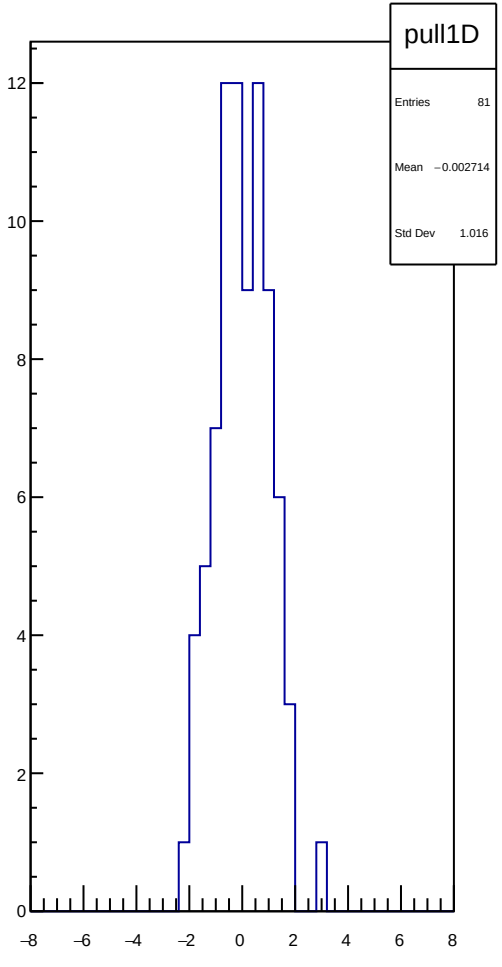

eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 78.64 / 80
p0 1514 ± 1.217
1550
1540
1530
1520
1510
1500
1490
1480
1470

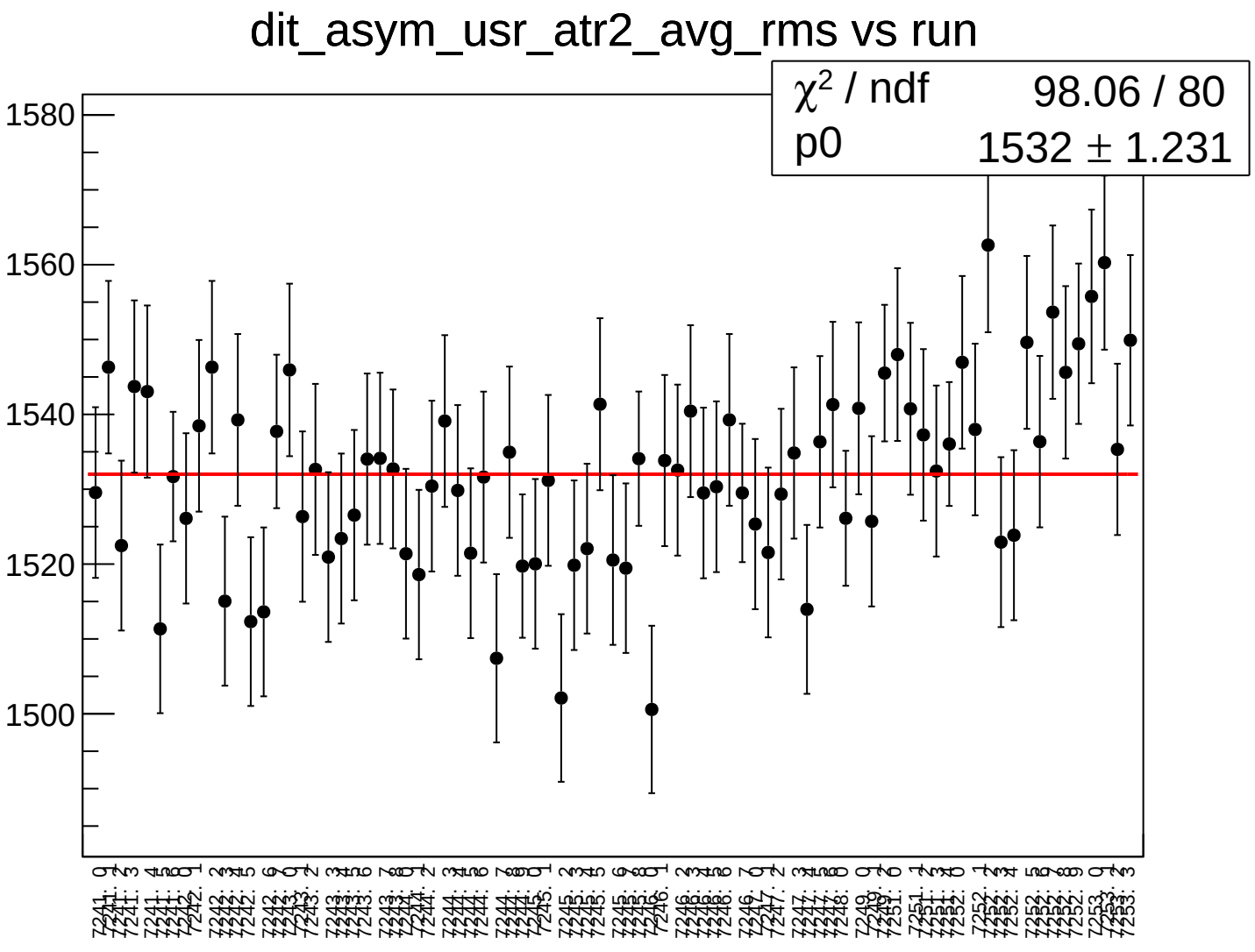

asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 94.28 / 80
p0 230 ± 5631
150
100
50
0
−50
−100
−150
−200
pull
Entries 81
Mean −108.4
Std Dev 0
2
1
0
−1
−2

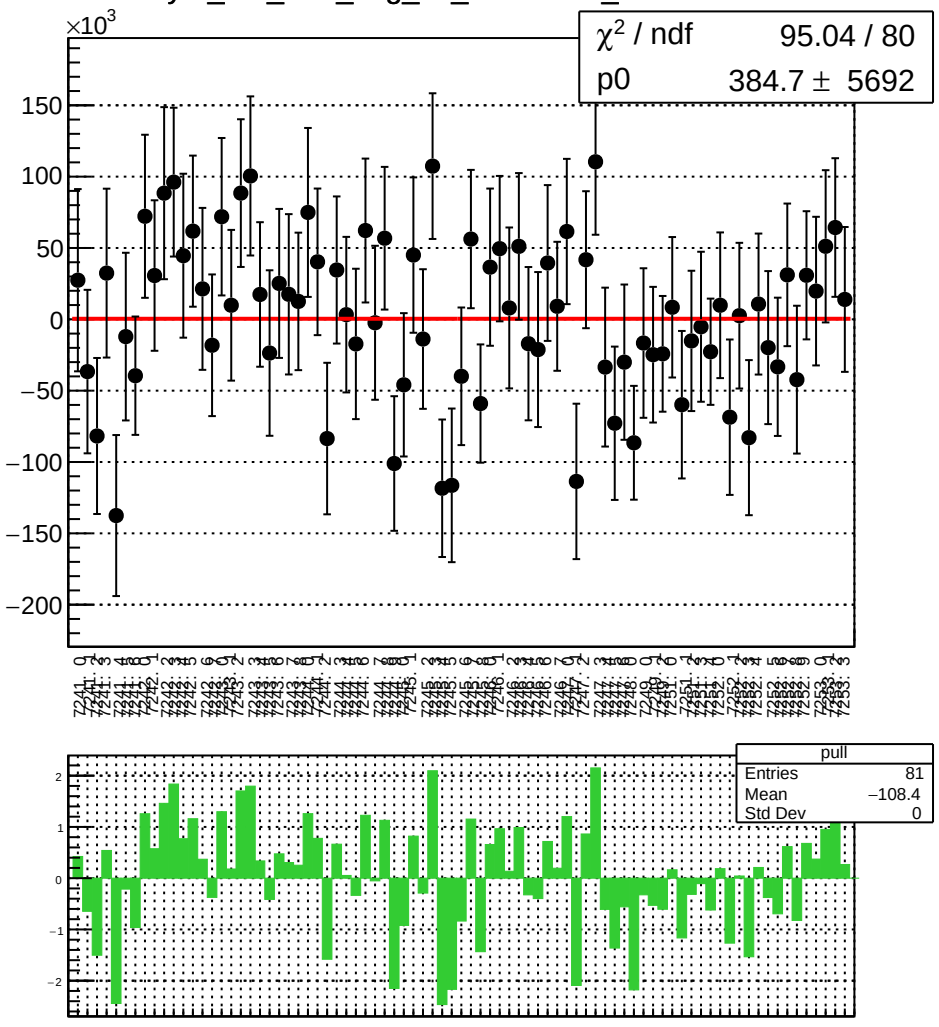

pull1D
Entries 81
Mean 0.0244
Std Dev 1.079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

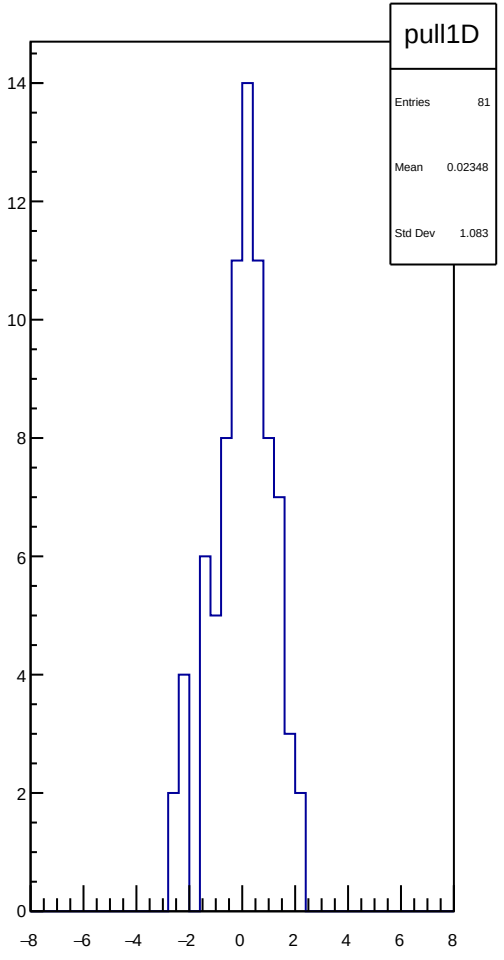

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ² / ndf 5450 / 80
p0 4947 ± 3.981
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

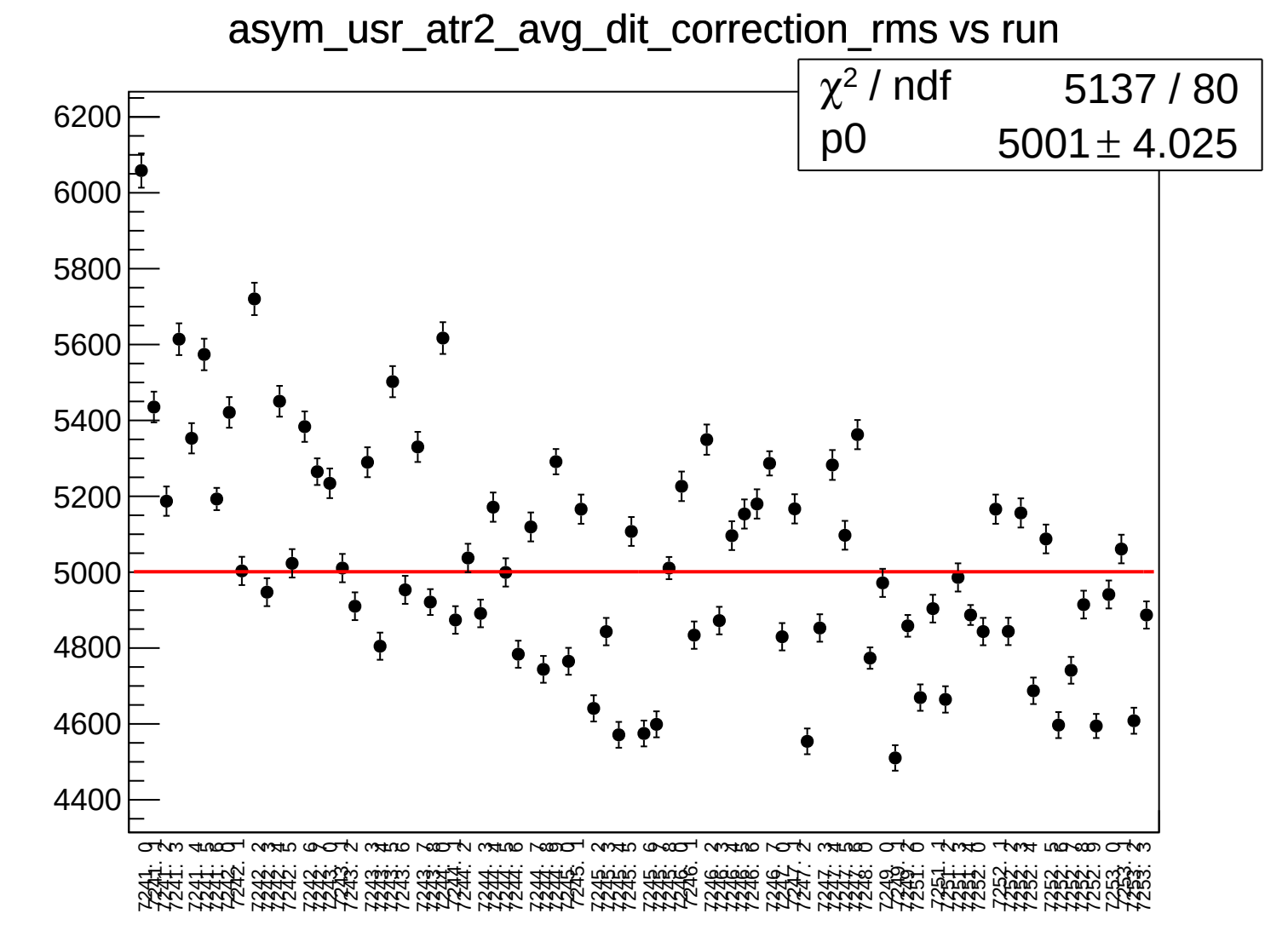

dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 83.66 / 80
p0 2196 ± 1741
60000
40000
20000
0
−20000
−40000
pull
Entries 81
Mean 213
Std Dev 0
3
2
1
0
−1
−2

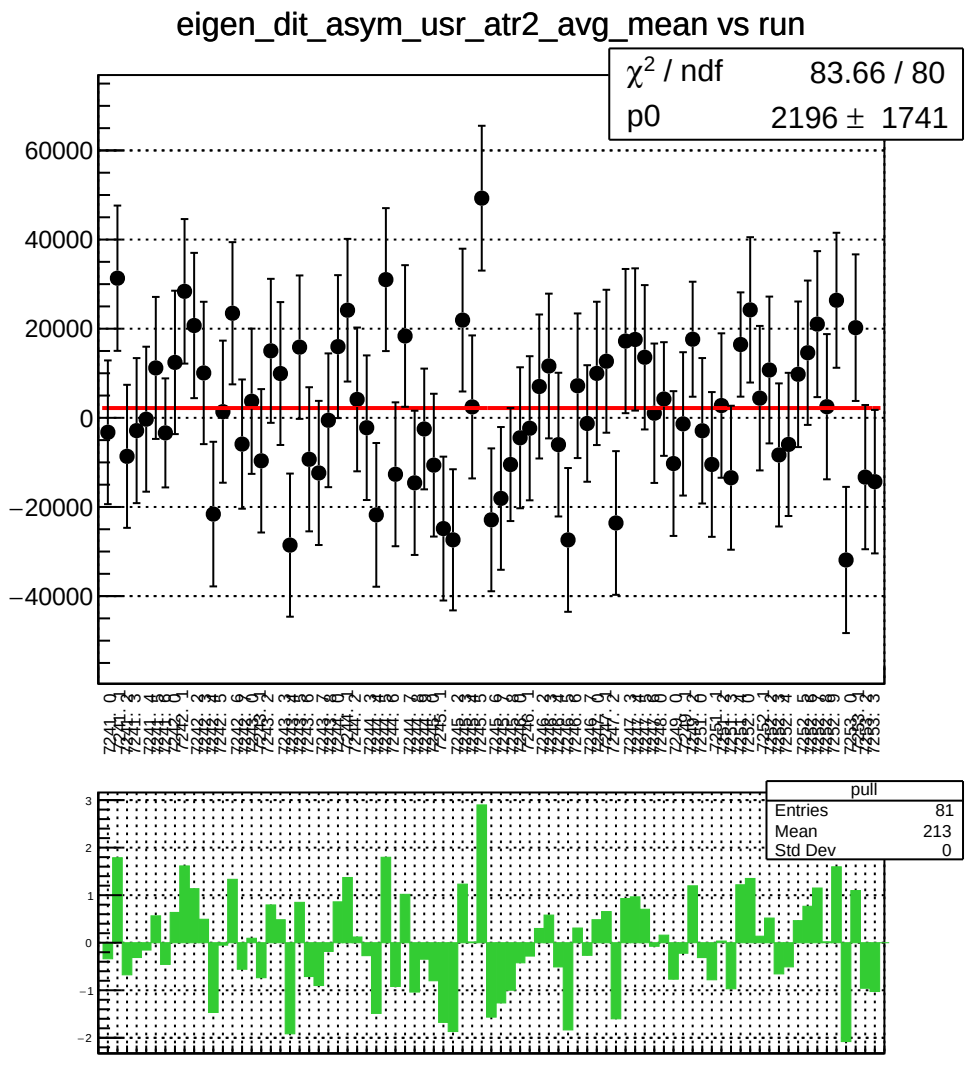

pull1D
Entries 81
Mean −0.002714
Std Dev 1.016
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

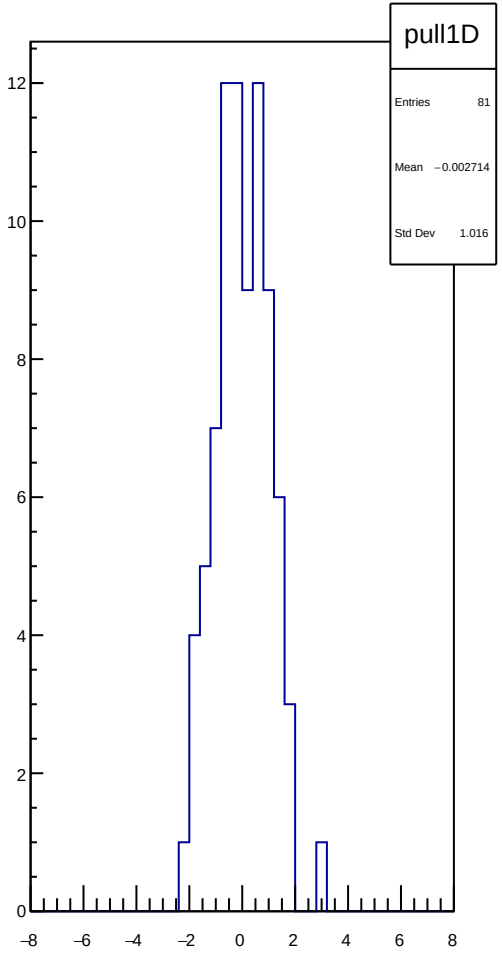

dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 98.06 / 80
p0 1532 ± 1.231
1580
1560
1540
1520
1500

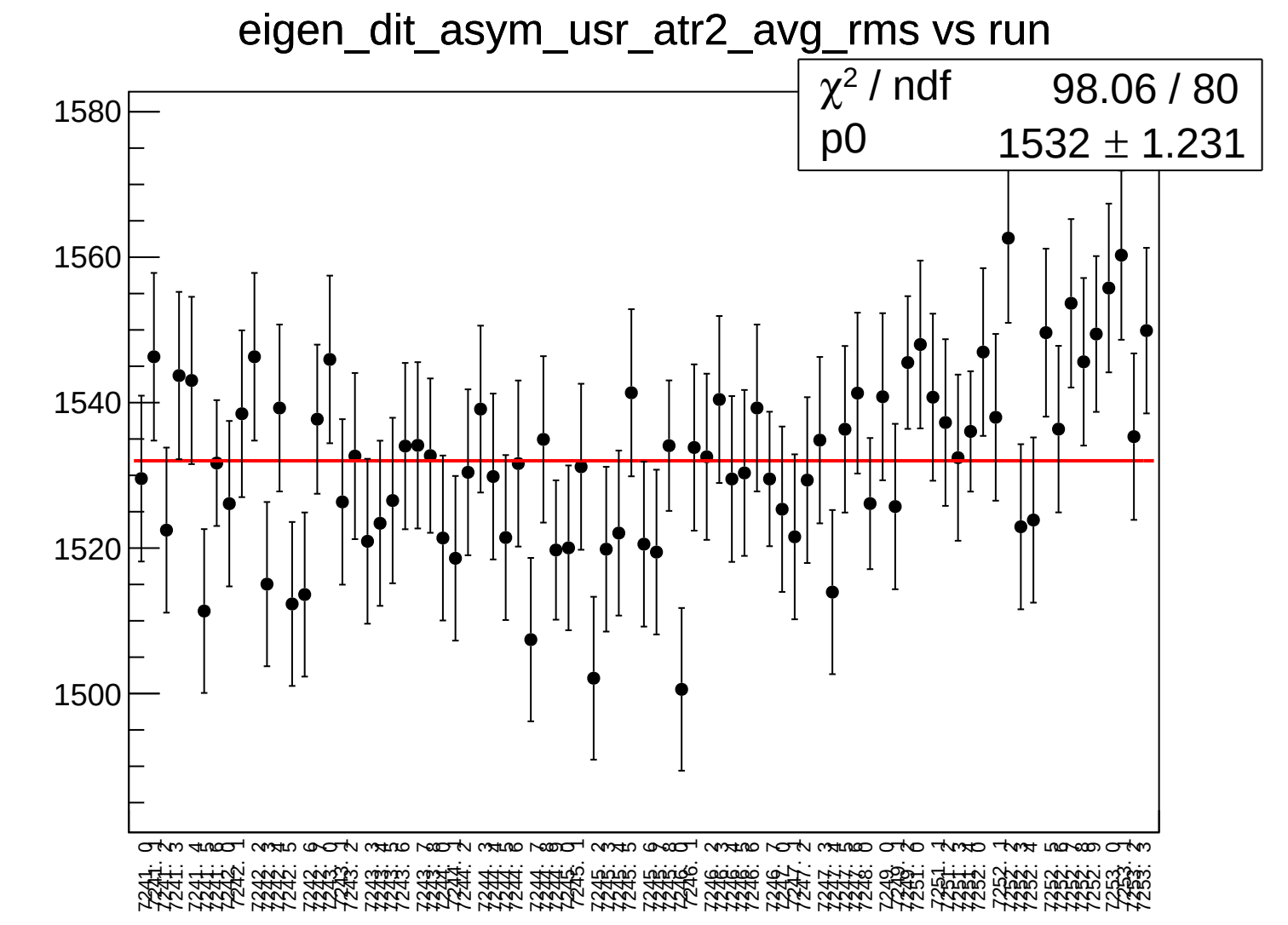

asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 95.04 / 80
p0 384.7 ± 5692
150
100
50
0
−50
−100
−150
−200
pull
Entries 81
Mean −108.4
Std Dev 0
2
1
0
−1
−2

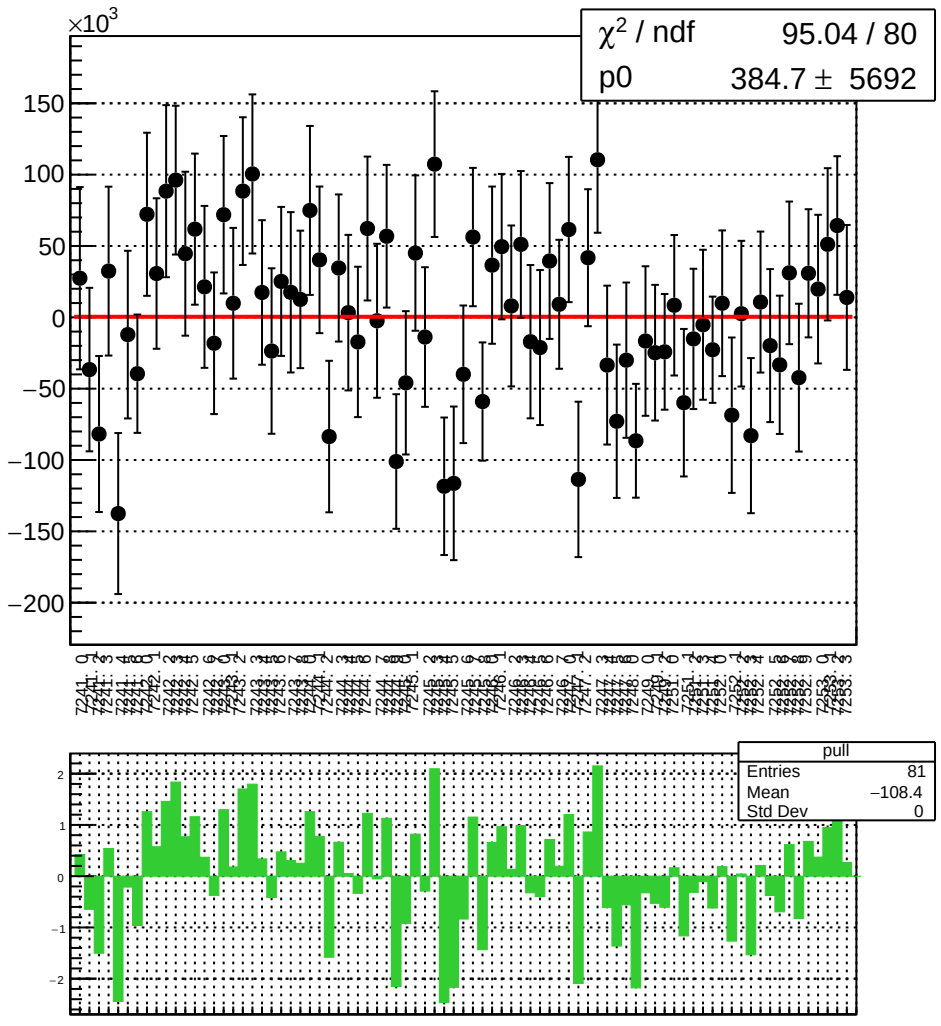

pull1D
Entries 81
Mean 0.02348
Std Dev 1.083
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

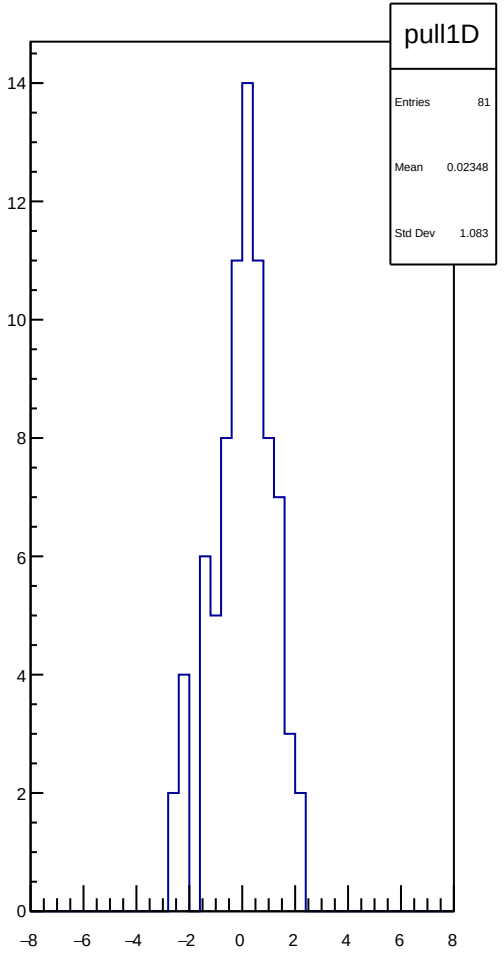

asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 5137 / 80
p0 5001 ± 4.025
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400

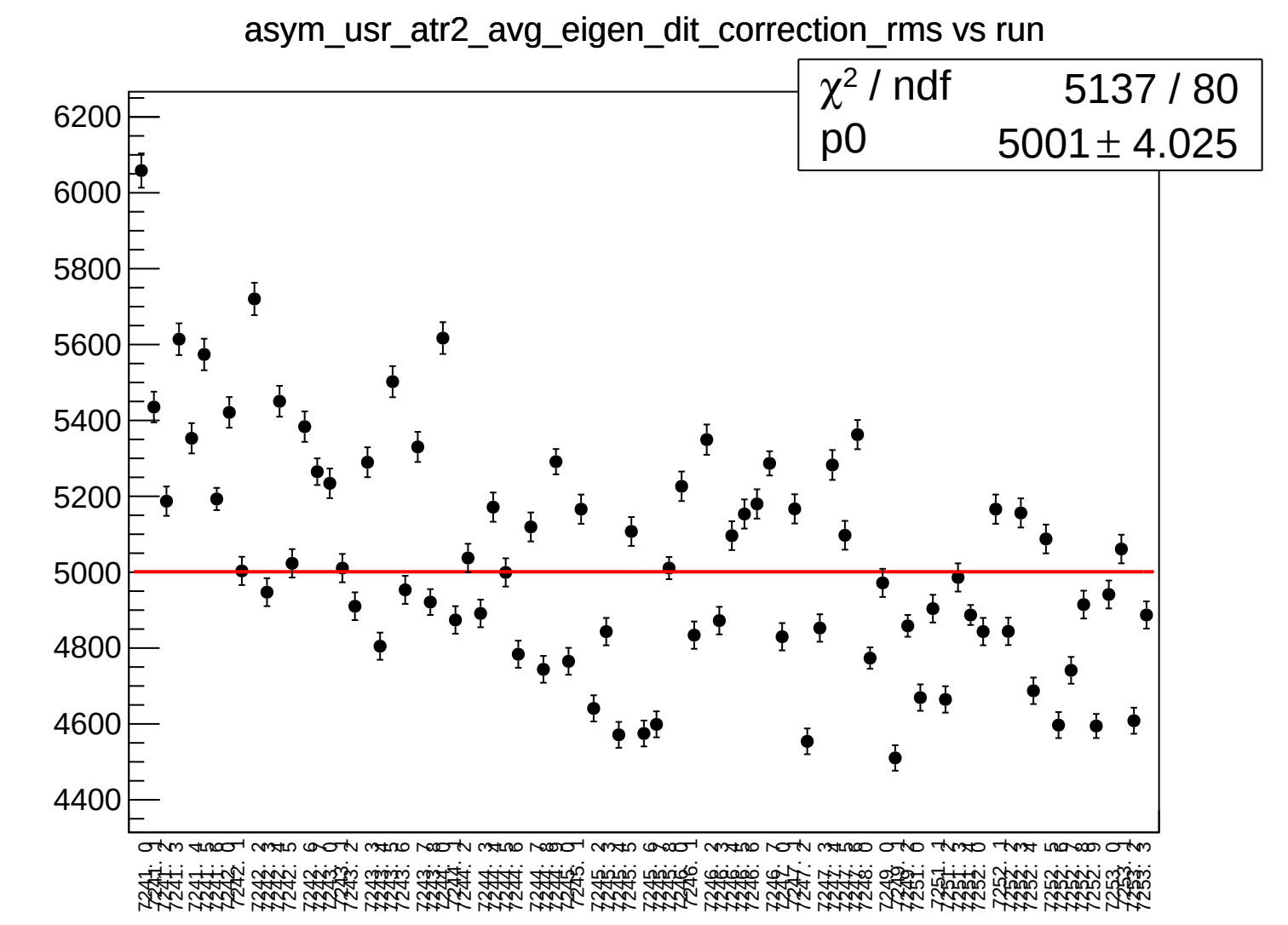

eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 83.66 / 80
p0 2196 ± 1741
60000
40000
20000
0
−20000
−40000
pull
Entries 81
Mean 213
Std Dev 0
3
2
1
0
−1
−2

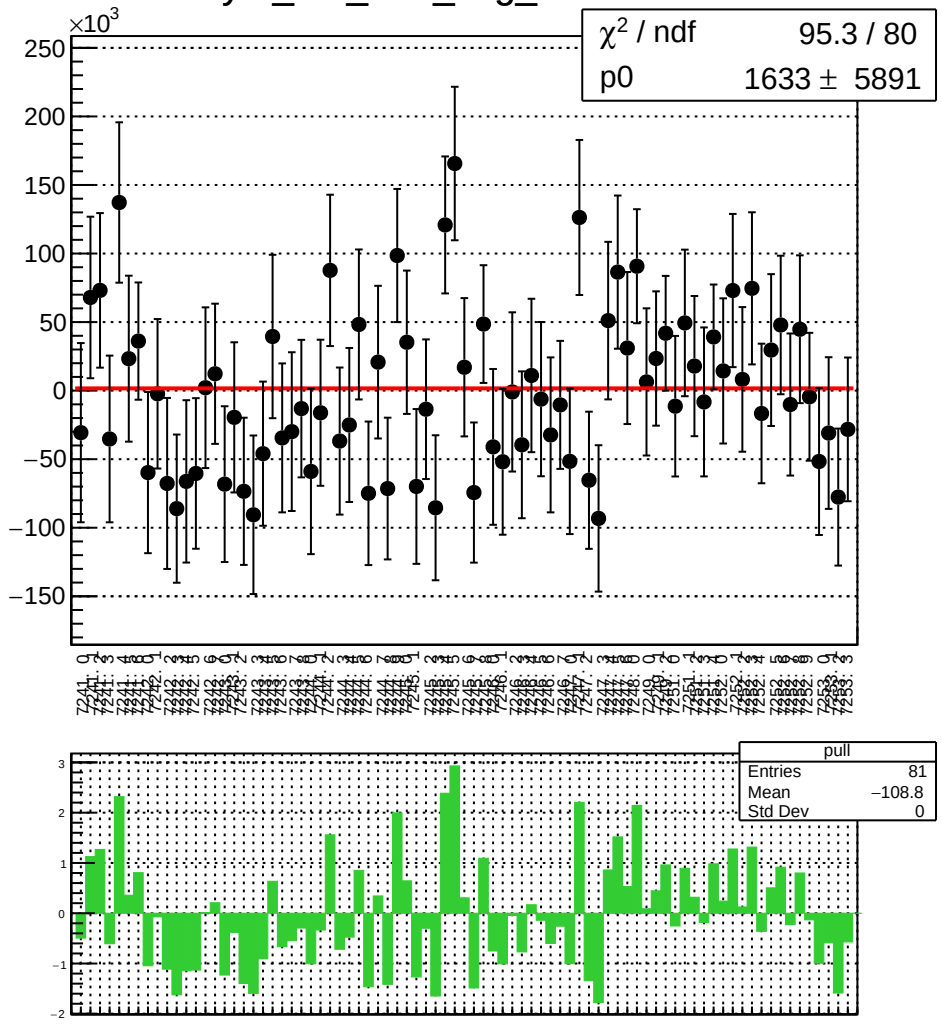

pull1D
Entries 81
Mean −0.002714
Std Dev 1.016
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

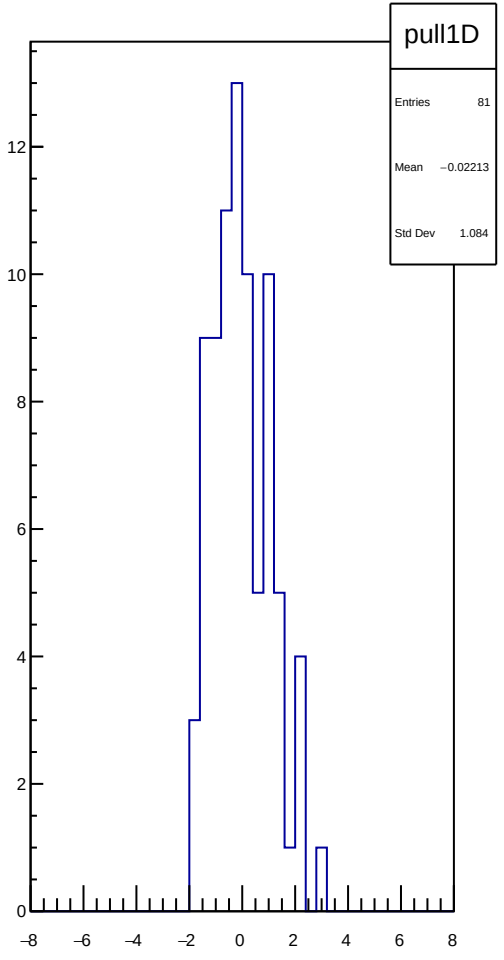

eigen_dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 98.06 / 80
p0 1532 ± 1.231
1580
1560
1540
1520
1500

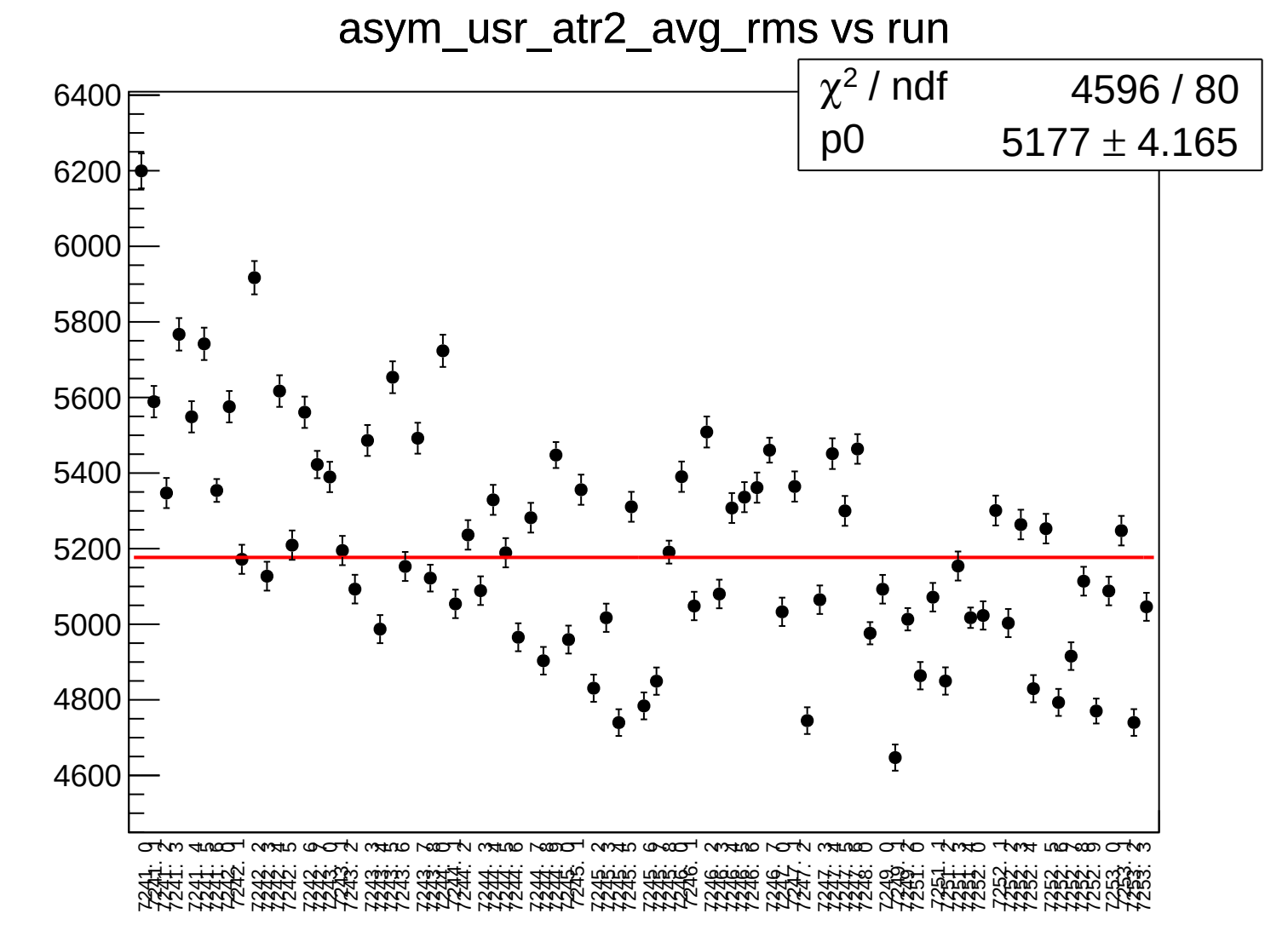

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 95.04 / 80
p0 384.7 ± 5692
150
100
50
0
−50
−100
−150
−200
pull
Entries 81
Mean −108.4
Std Dev 0
2
1
0
−1
−2

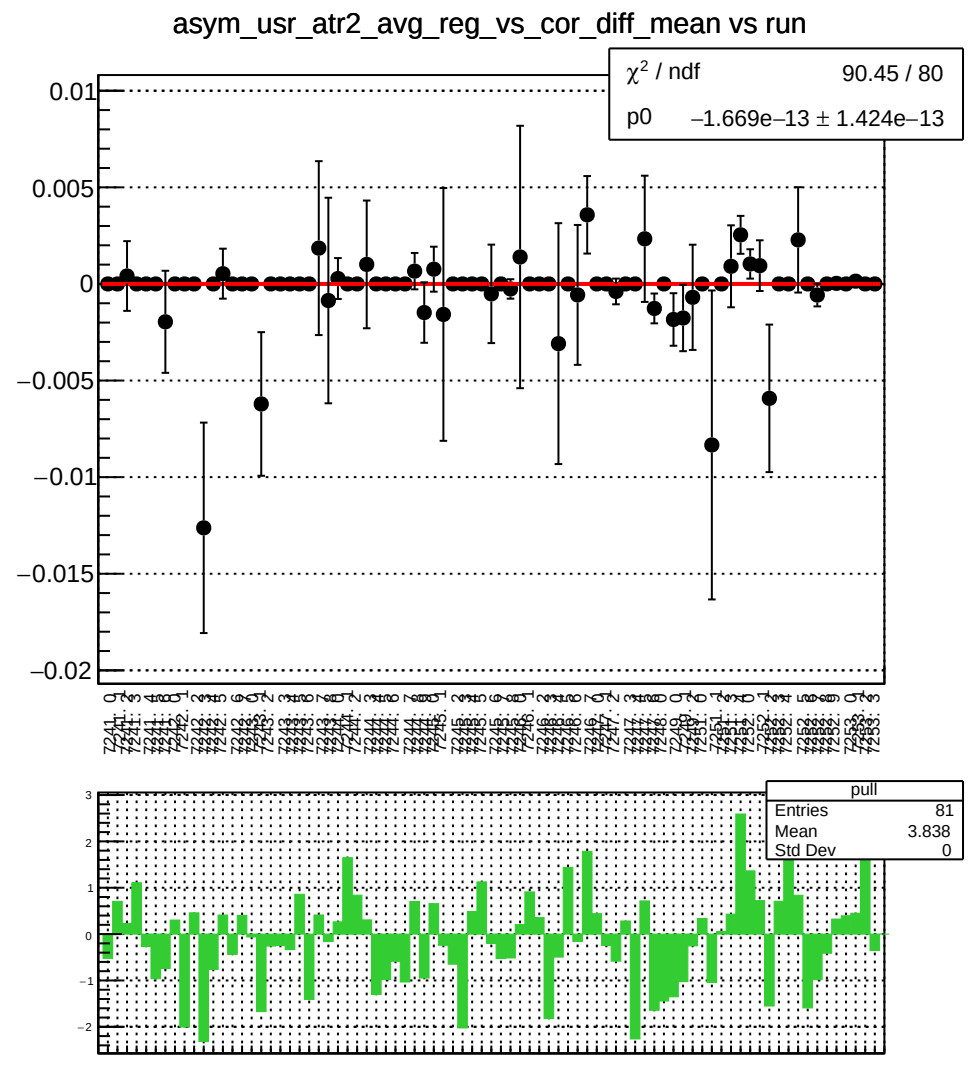

pull1D
Entries 81
Mean 0.02348
Std Dev 1.083
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

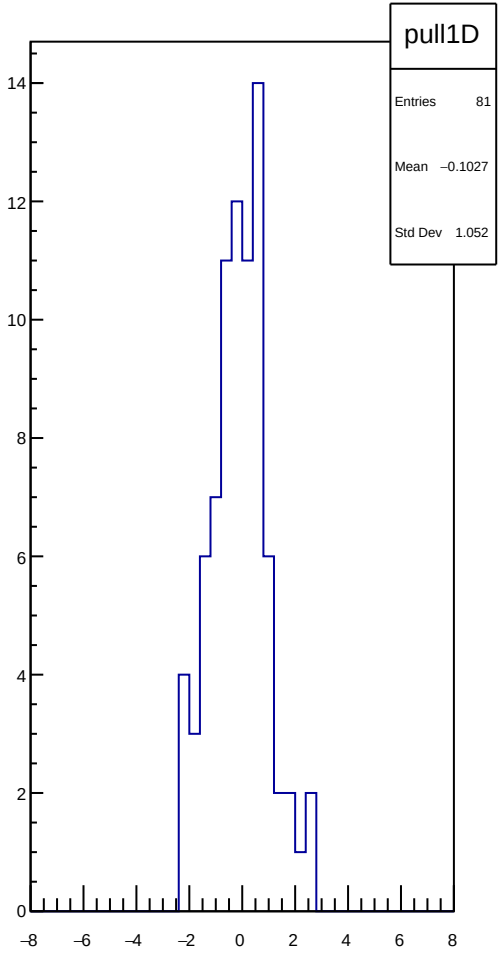

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 5137 / 80
p0 5001 ± 4.025
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400

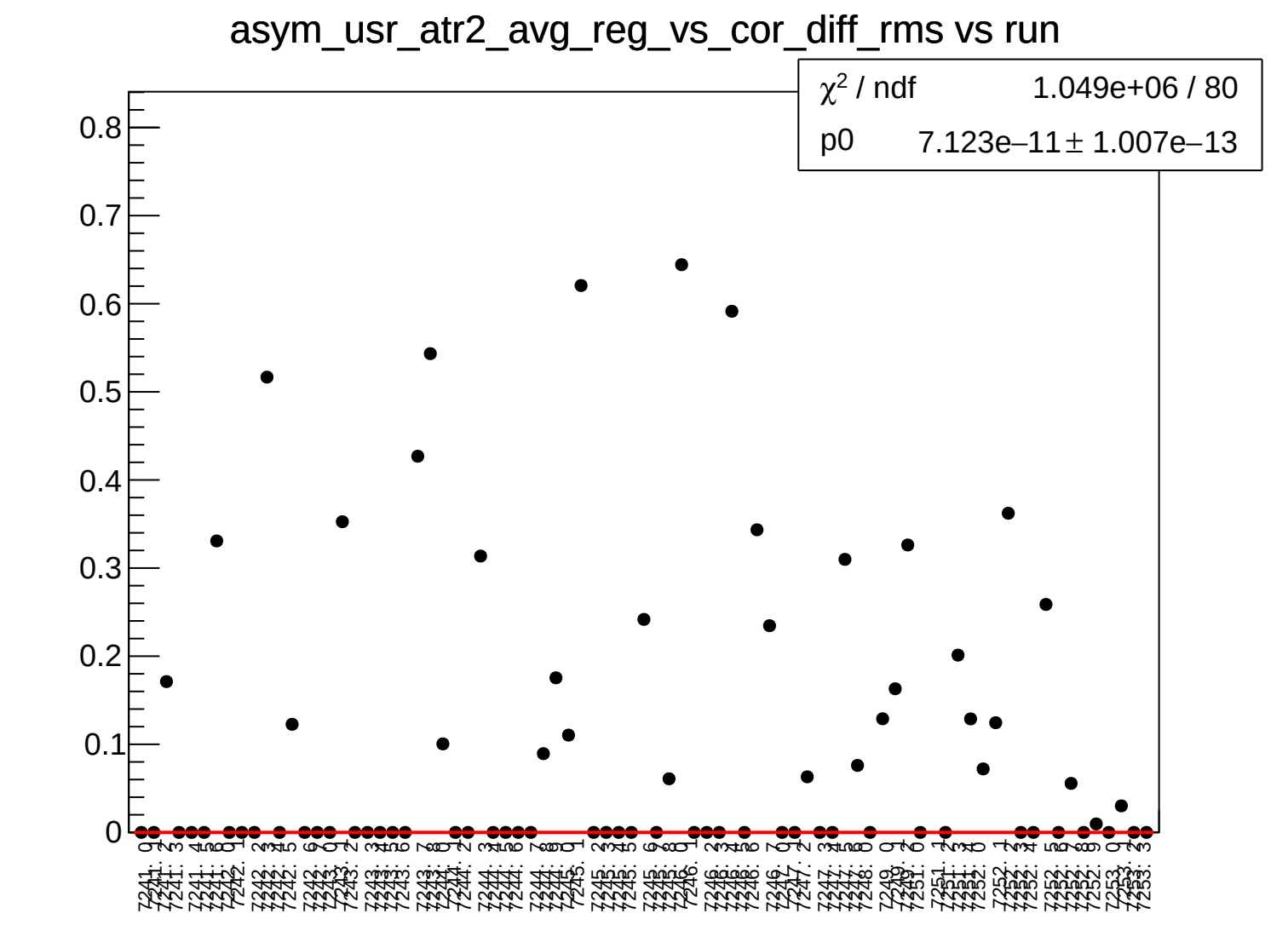

asym_usr_atr2_avg_mean vs run
×10^3
χ² / ndf 95.3 / 80
p0 1633 ± 5891
pull
Entries 81
Mean −108.8
Std Dev 0

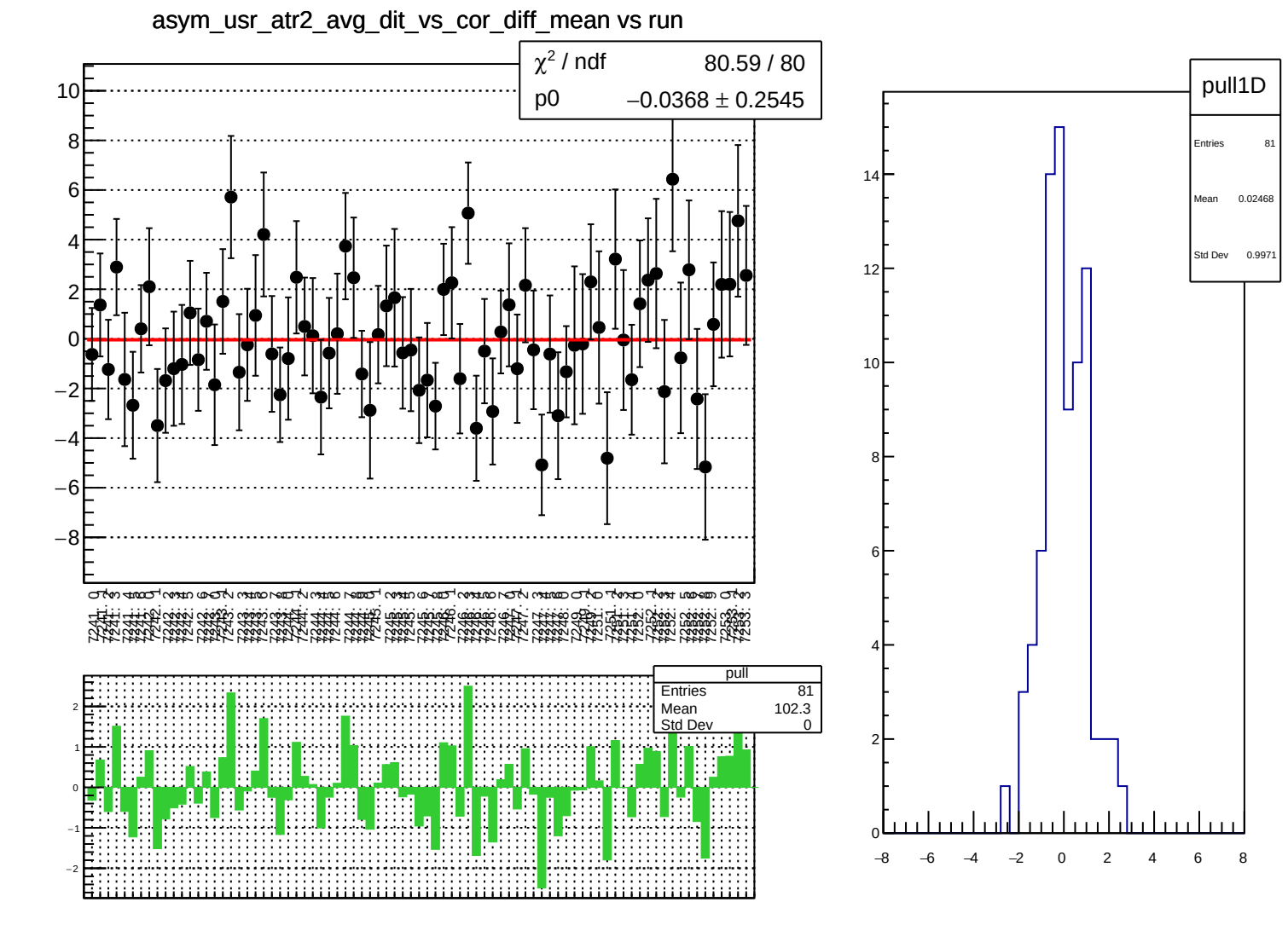

pull1D
Entries 81
Mean −0.02213
Std Dev 1.084

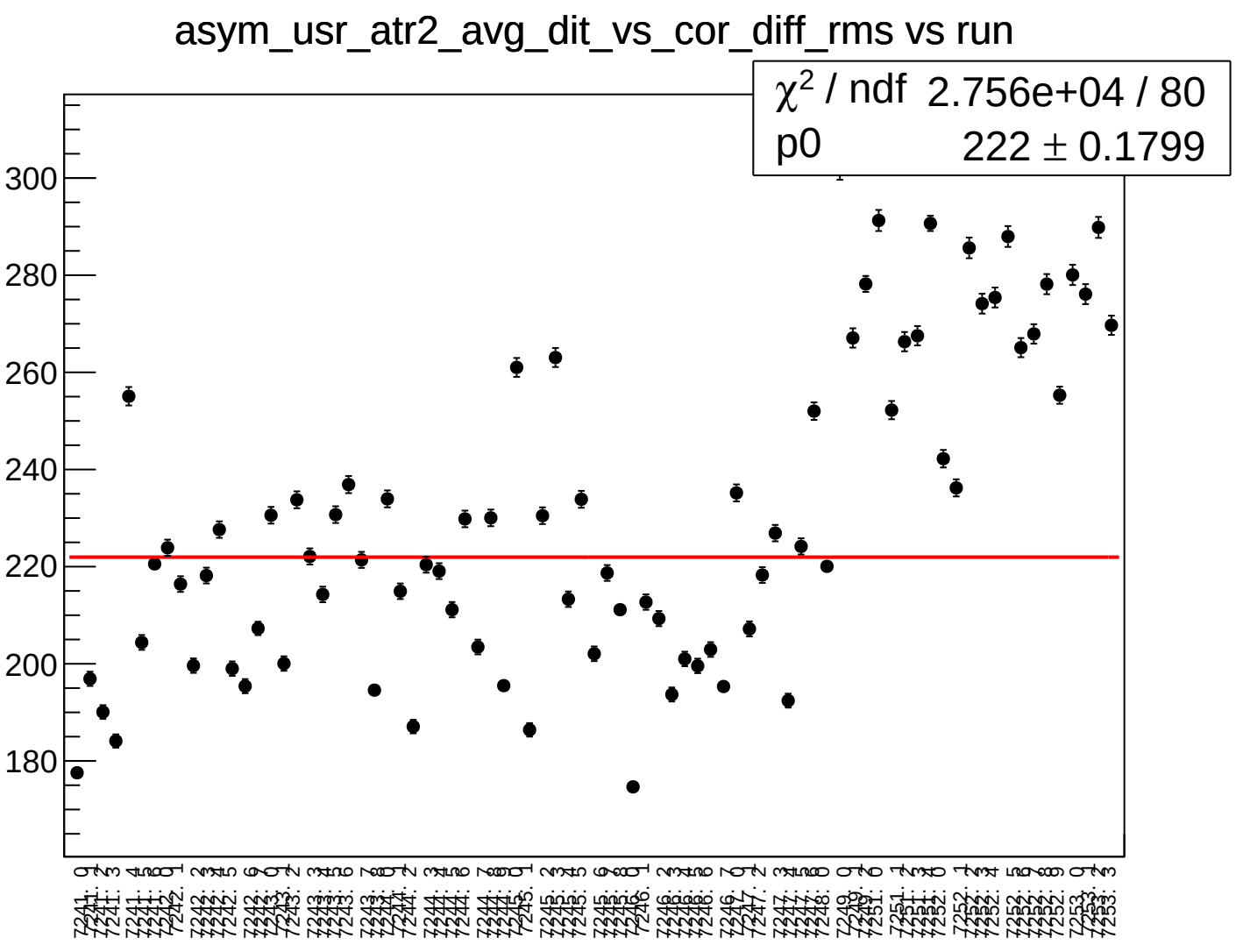

asym_usr_atr2_avg_rms vs run
χ^2 / ndf 4596 / 80
p0 5177 ± 4.165
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600

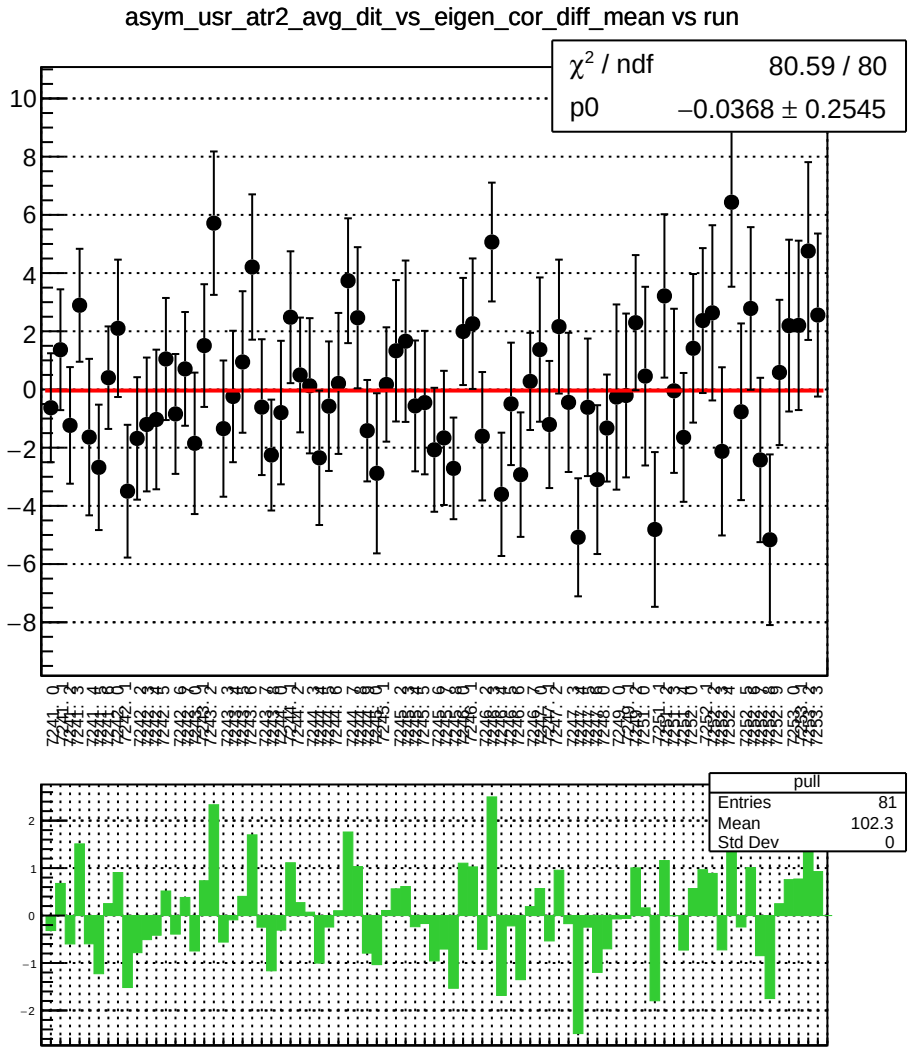

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 90.45 / 80
p0 −1.669e−13 ± 1.424e−13
pull
Entries 81
Mean 3.838
Std Dev 0

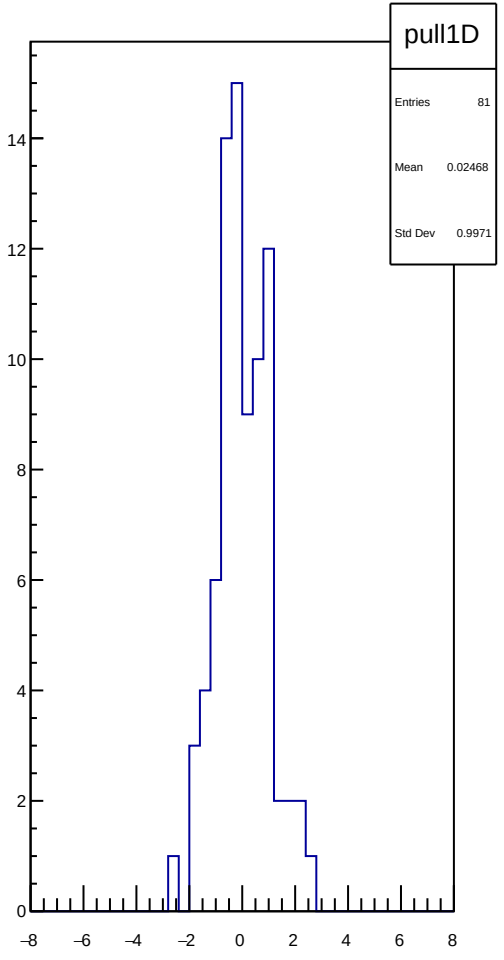

pull1D
Entries 81
Mean −0.1027
Std Dev 1.052

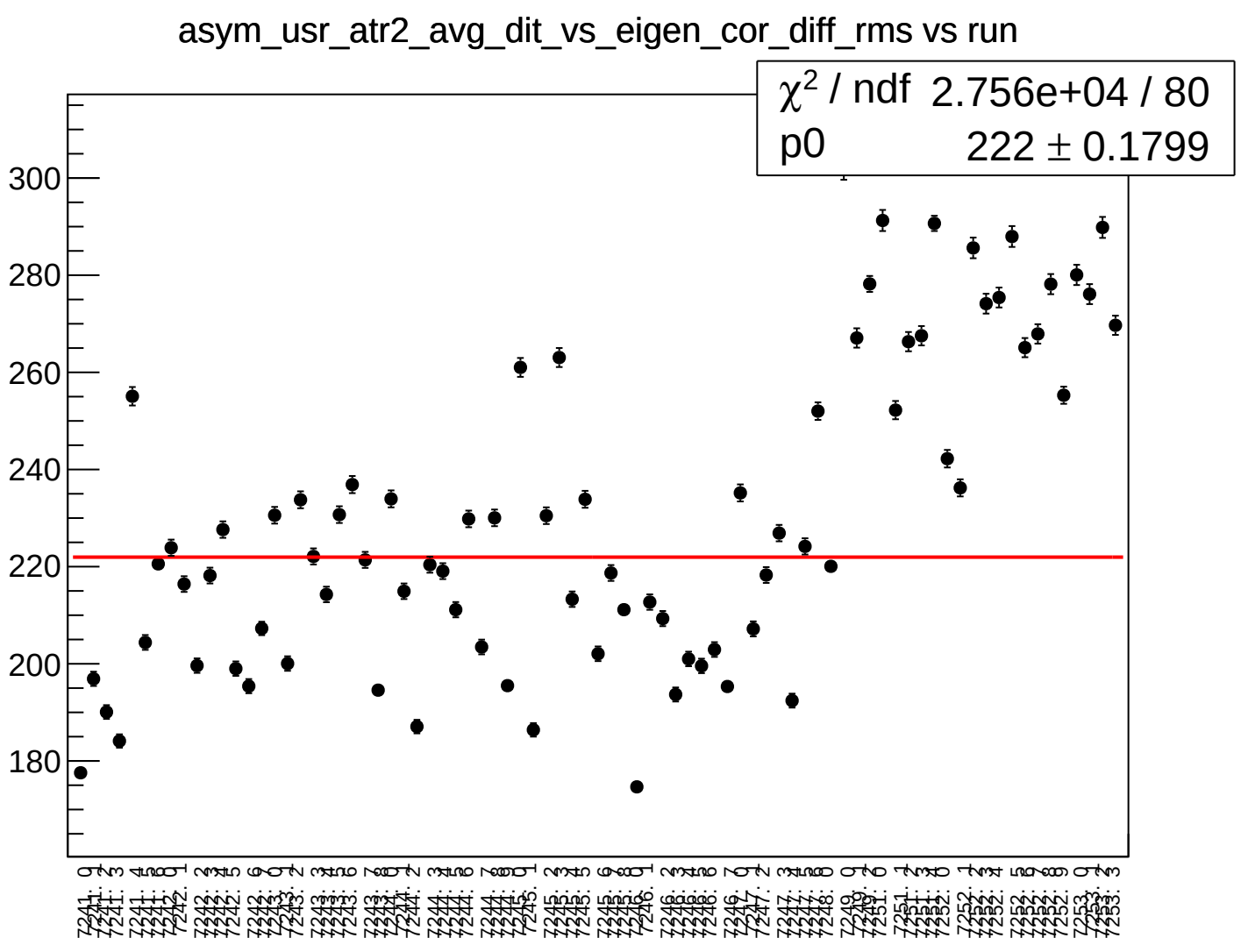

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.049e+06 / 80
p0 7.123e−11 ± 1.007e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

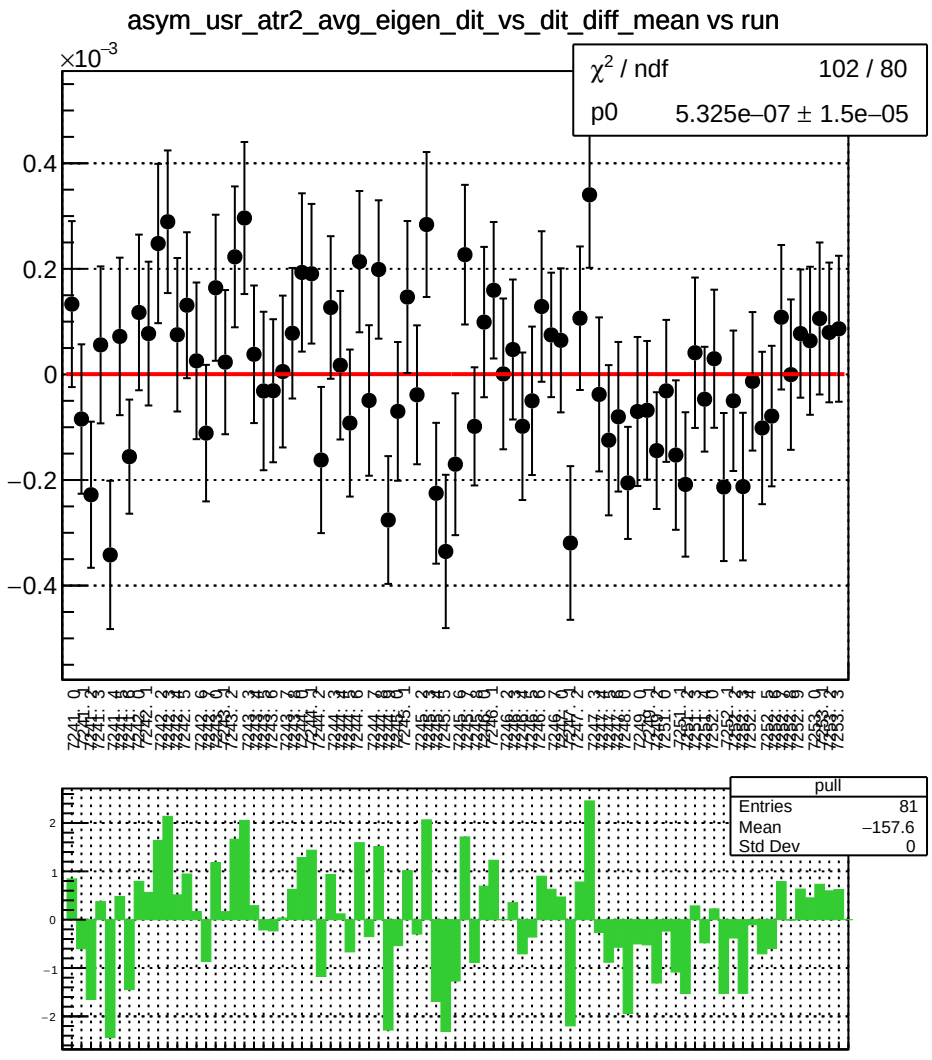

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 80.59 / 80
p0 −0.0368 ± 0.2545
pull
Entries 81
Mean 102.3
Std Dev 0
pull1D
Entries 81
Mean 0.02468
Std Dev 0.9971

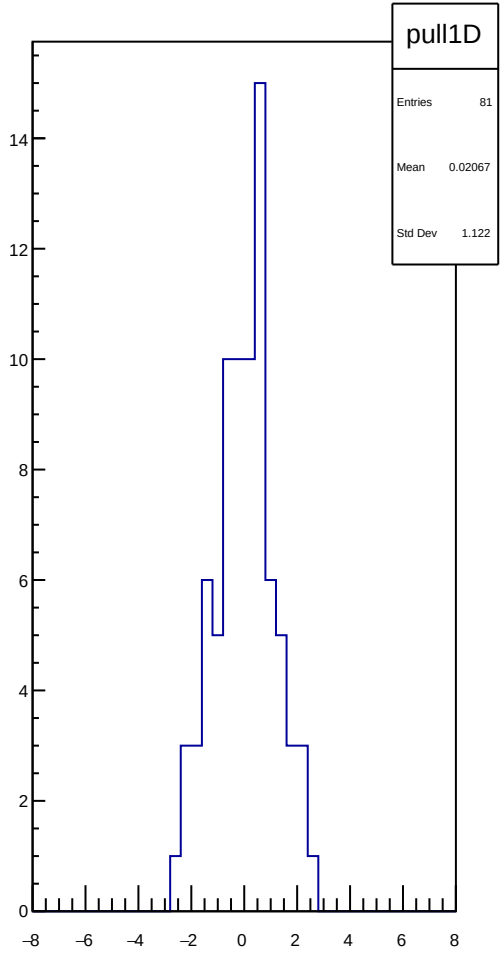

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.756e+04 / 80
p0 222 ± 0.1799
300
280
260
240
220
200
180

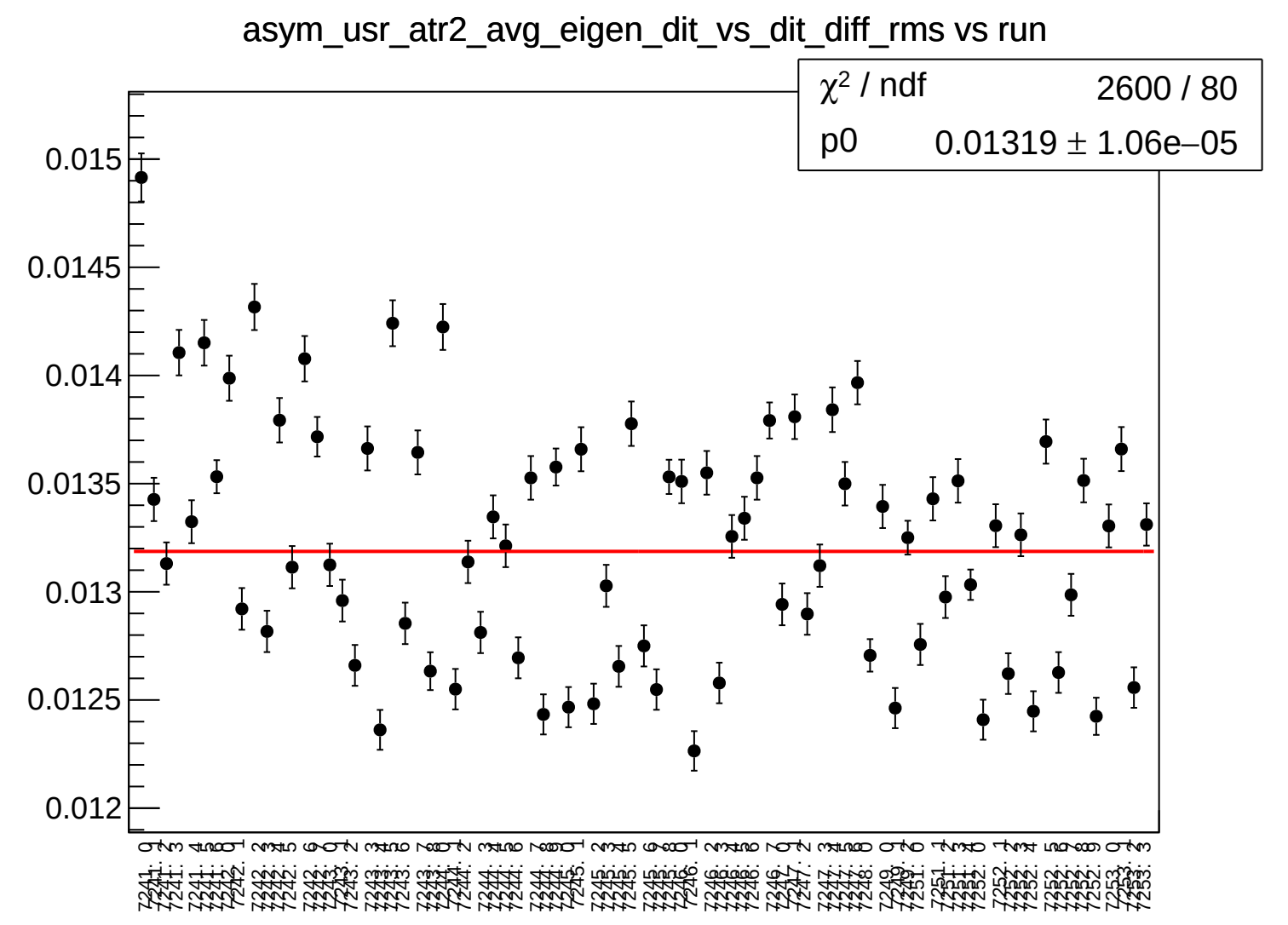

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.59 / 80
p0 −0.0368 ± 0.2545
pull
Entries 81
Mean 102.3
Std Dev 0

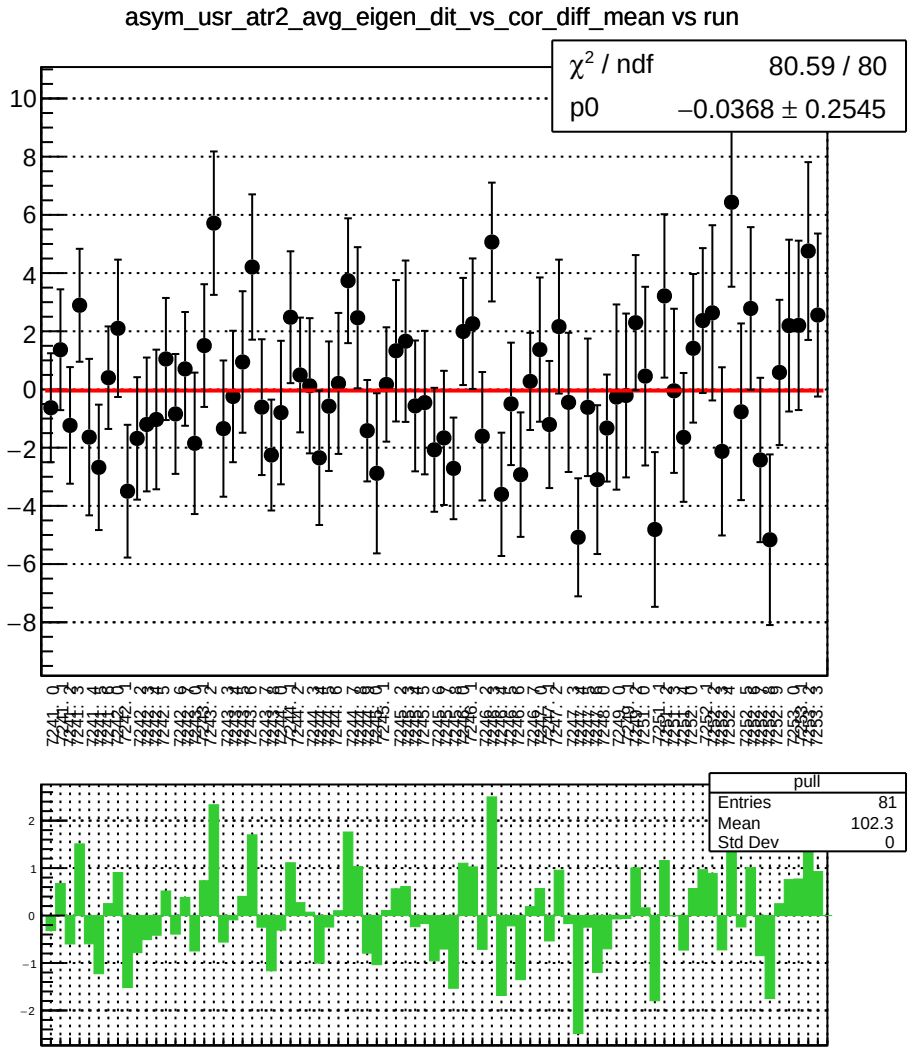

pull1D
Entries 81
Mean 0.02468
Std Dev 0.9971

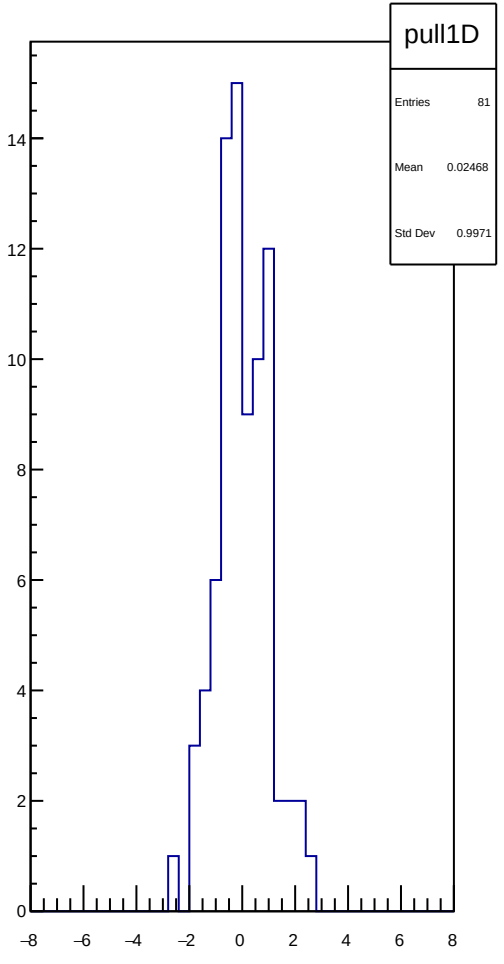

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.756e+04 / 80
p0 222 ± 0.1799
300
280
260
240
220
200
180

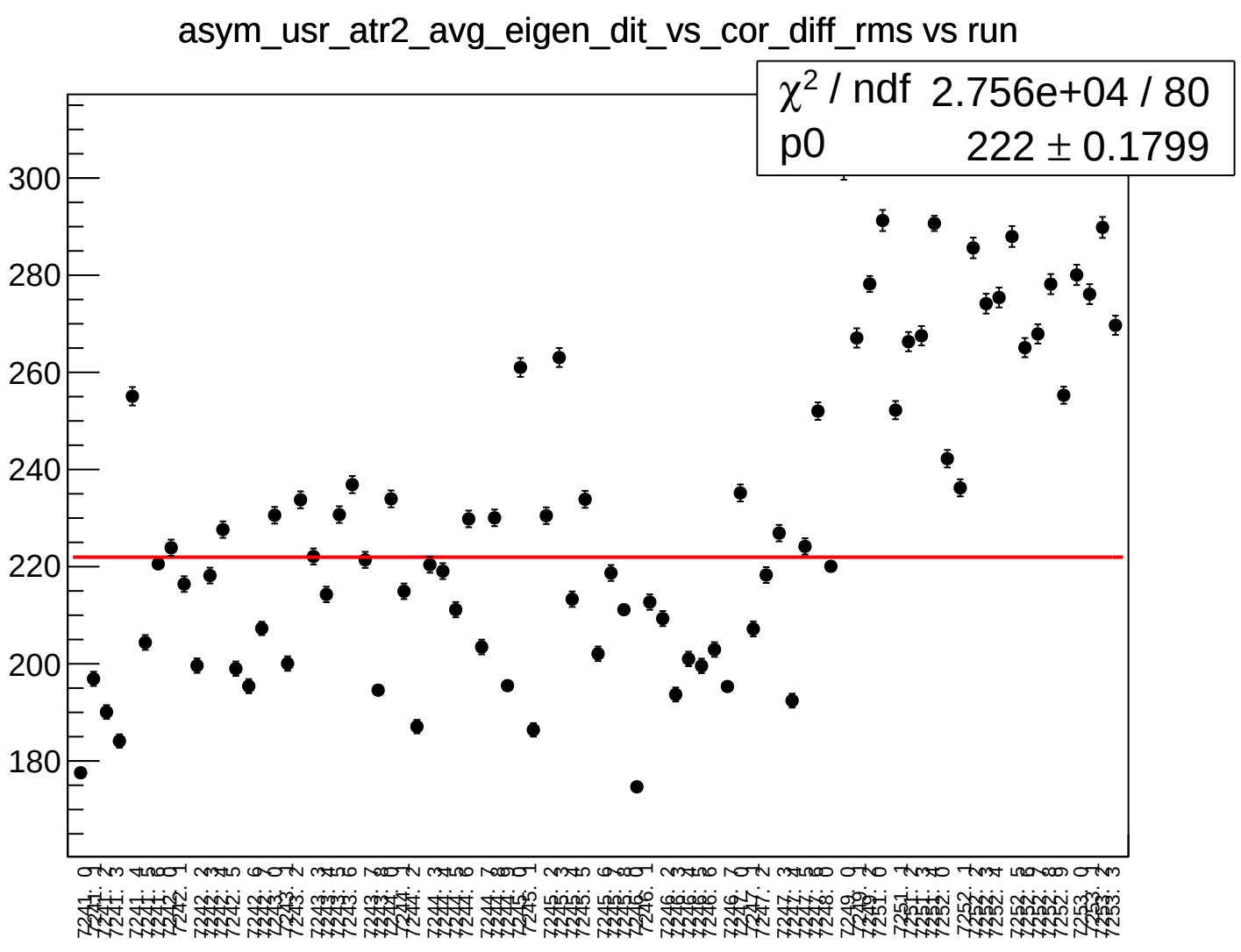

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 102 / 80
p0 5.325e–07 ± 1.5e–05
0.4
0.2
0
−0.2
−0.4
pull
Entries 81
Mean −157.6
Std Dev 0
2
1
0
−1
−2

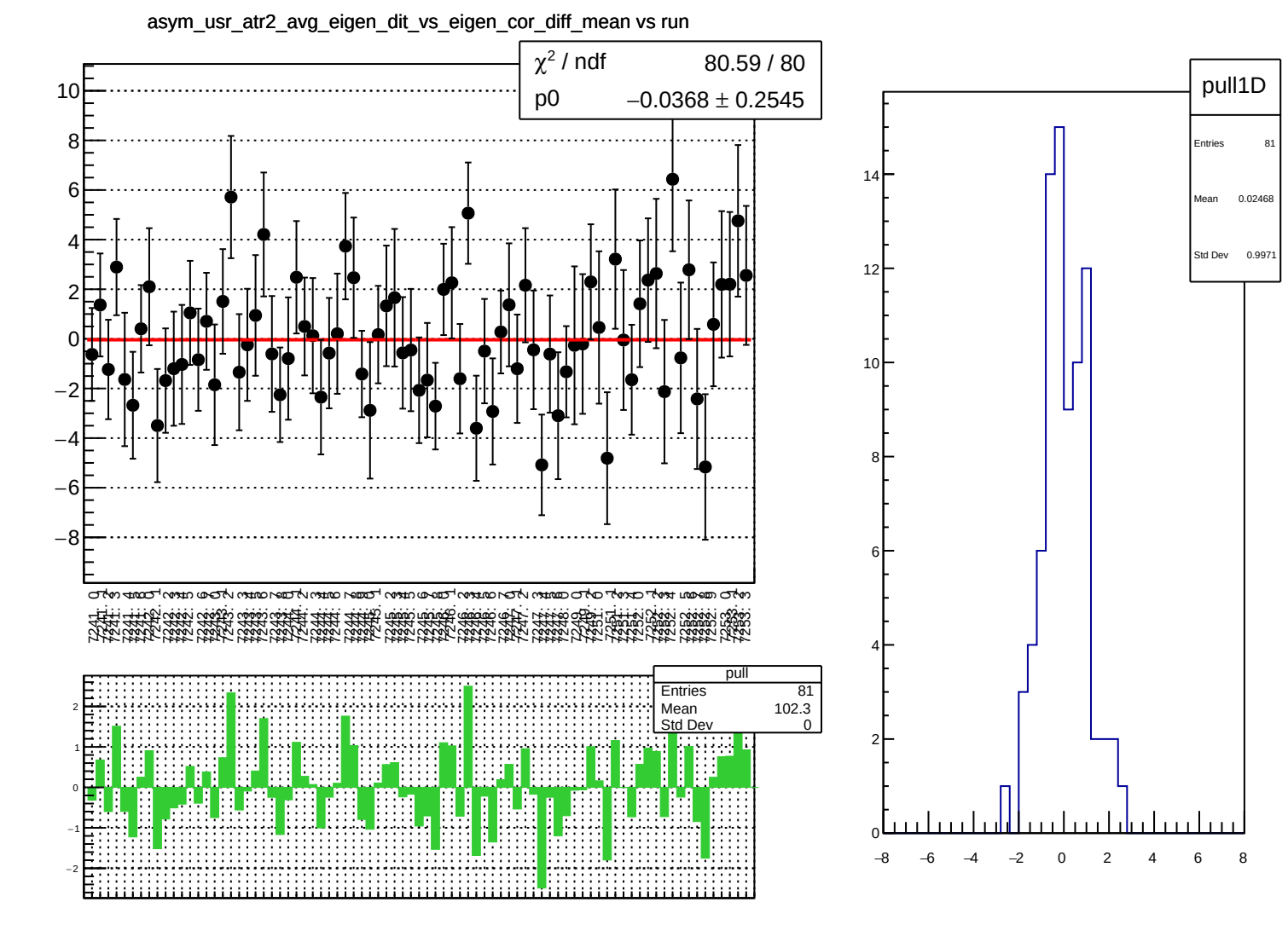

pull1D
Entries 81
Mean 0.02067
Std Dev 1.122
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

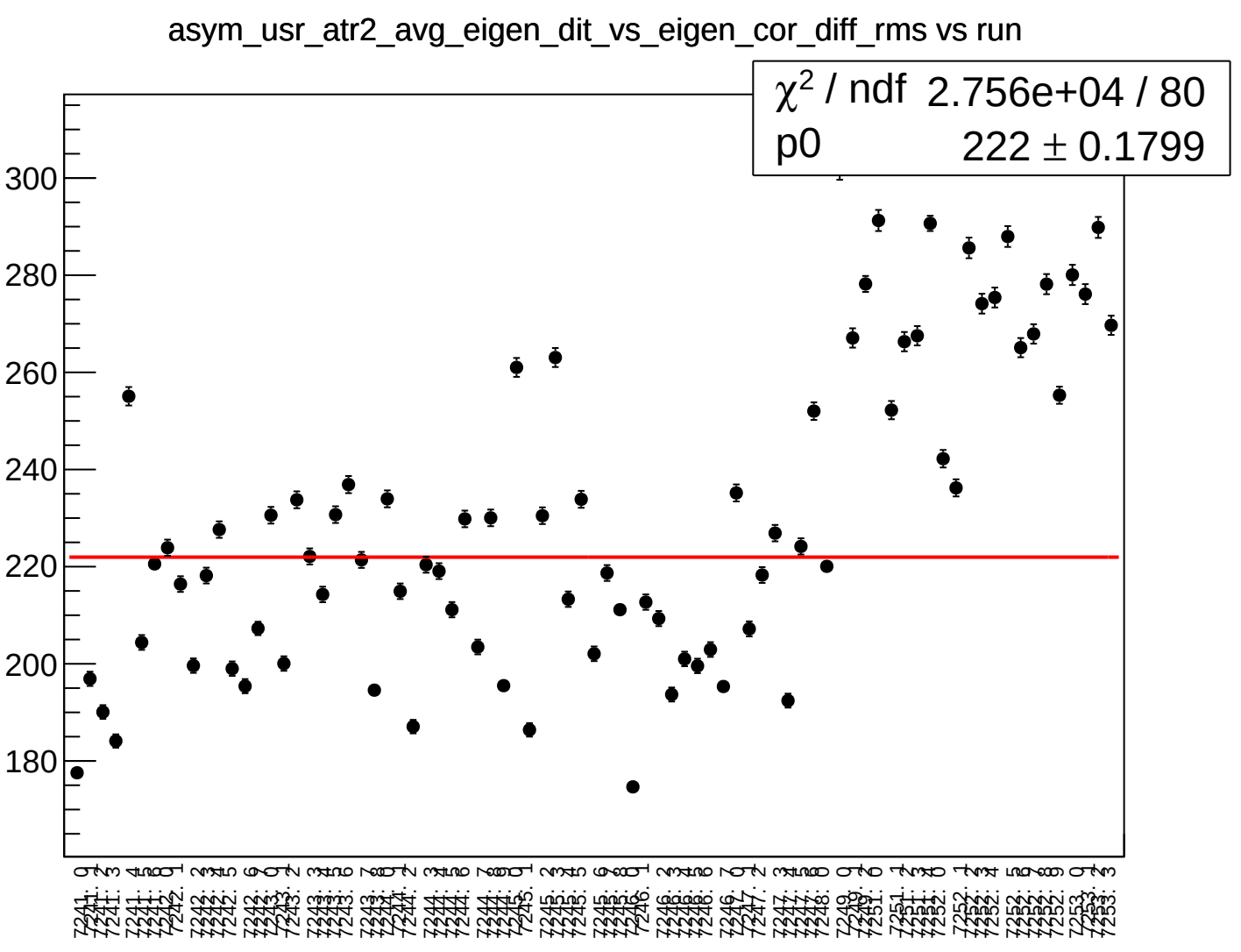

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2600 / 80
p0 0.01319 ± 1.06e−05
0.015
0.0145
0.014
0.0135
0.013
0.0125
0.012

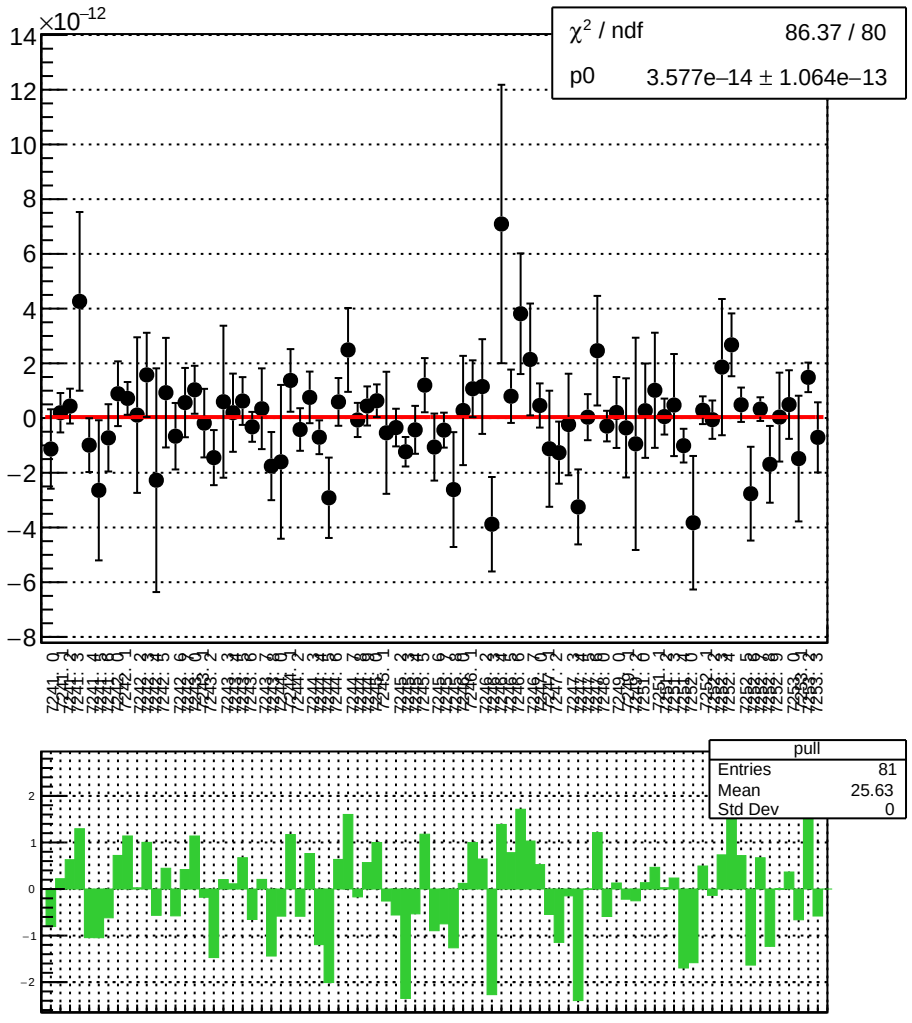

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.59 / 80
p0 −0.0368 ± 0.2545
pull
Entries 81
Mean 102.3
Std Dev 0

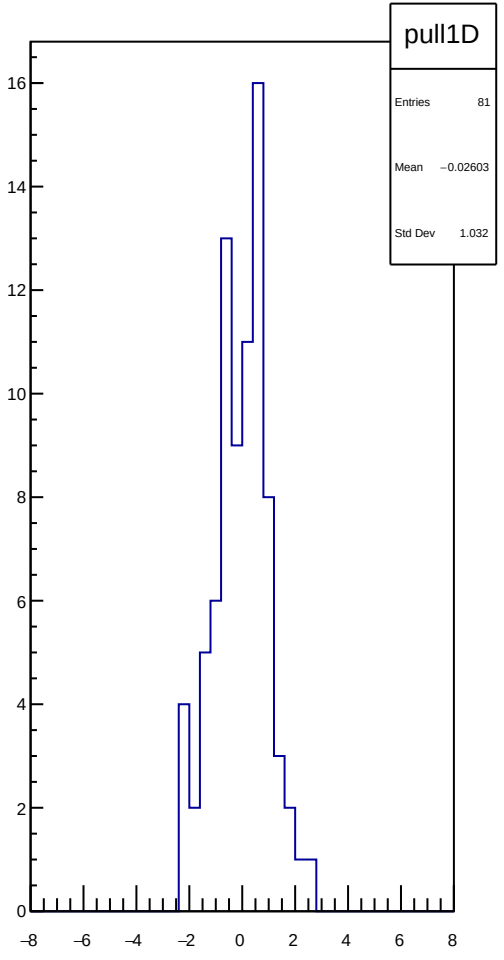

pull1D
Entries 81
Mean 0.02468
Std Dev 0.9971

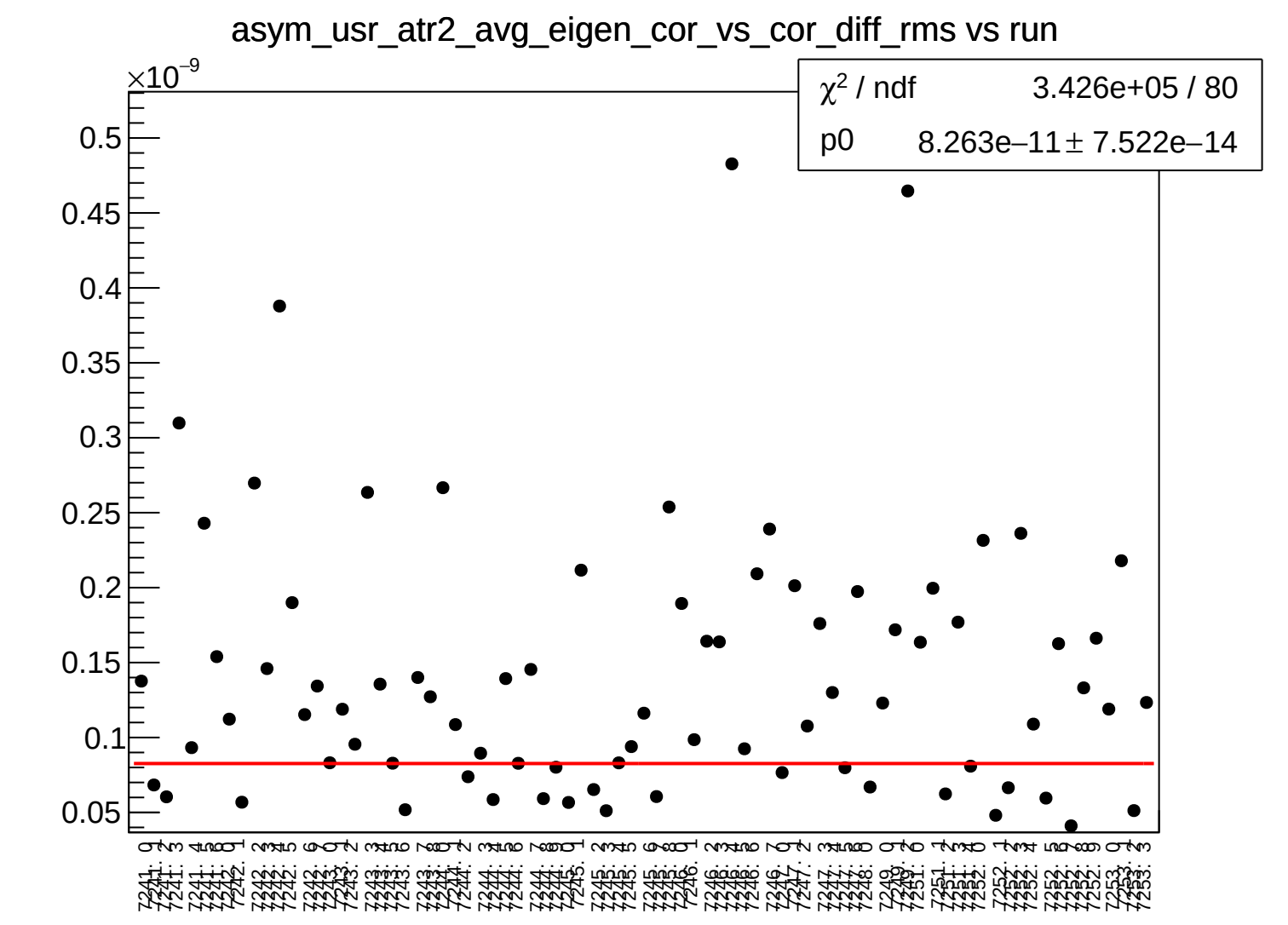

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.756e+04 / 80
p0 222 ± 0.1799
300
280
260
240
220
200
180

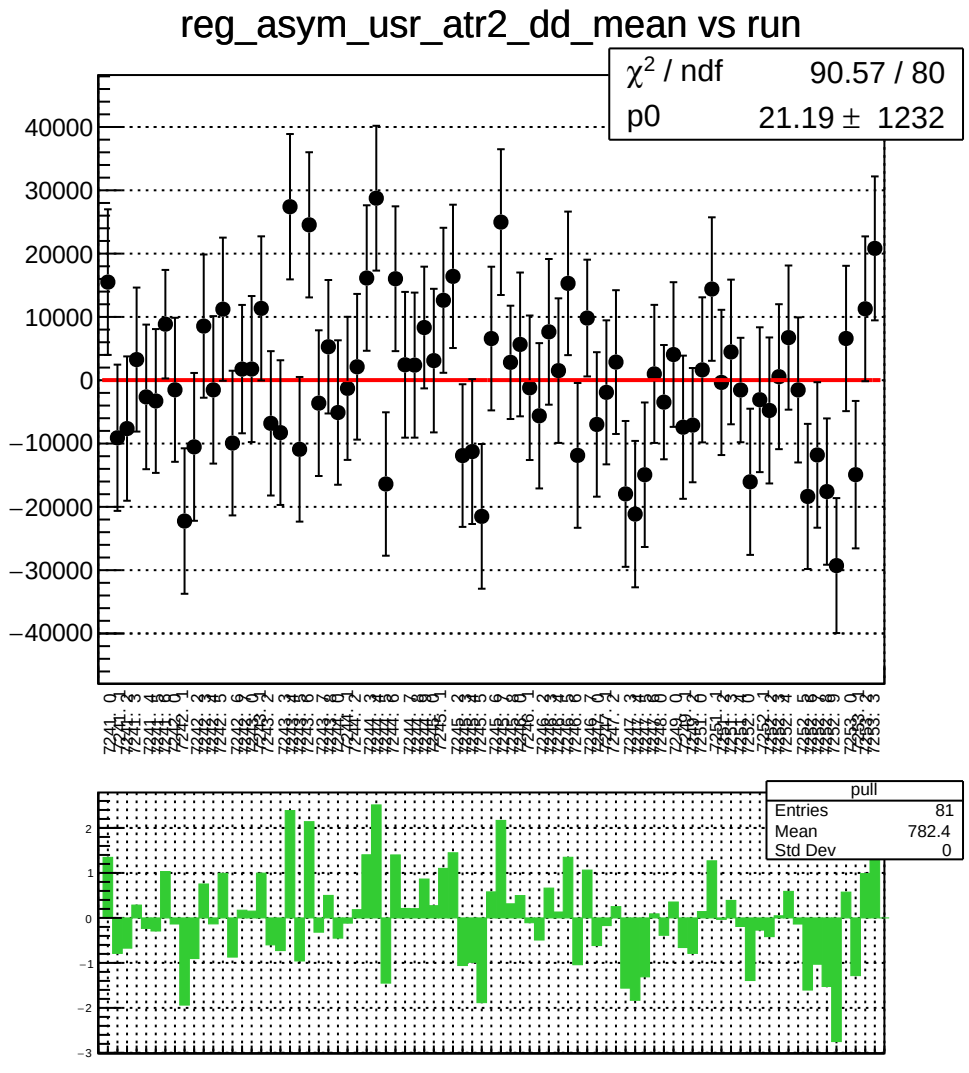

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.59 / 80
p0 −0.0368 ± 0.2545
pull
Entries 81
Mean 102.3
Std Dev 0
pull1D
Entries 81
Mean 0.02468
Std Dev 0.9971

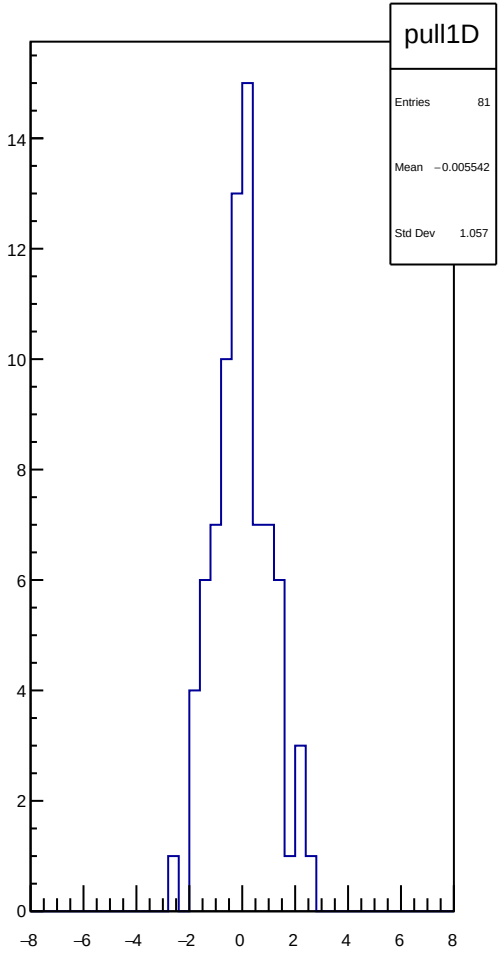

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.756e+04 / 80
p0 222 ± 0.1799
300
280
260
240
220
200
180

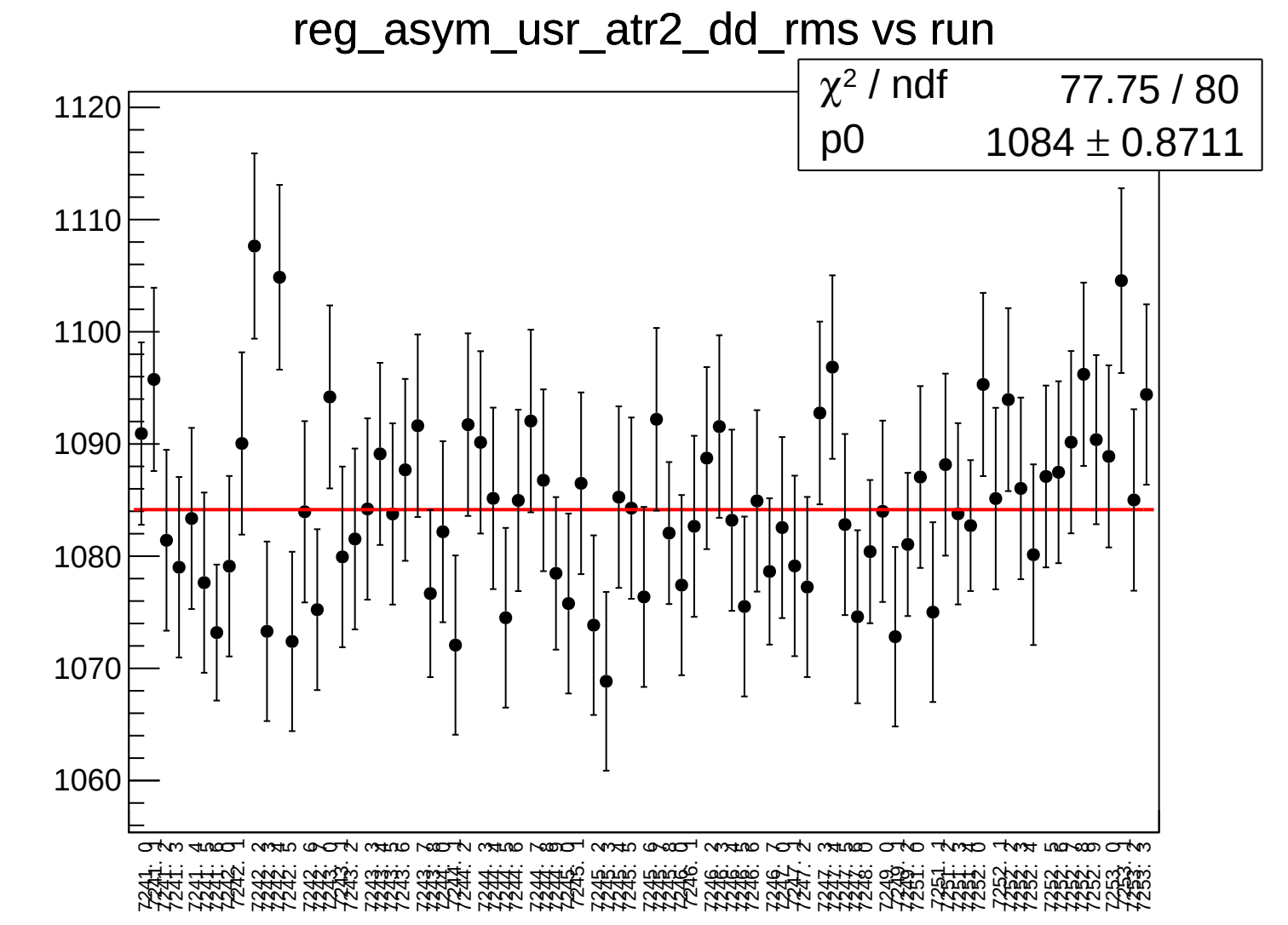

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.37 / 80
p0 3.577e−14 ± 1.064e−13
pull
Entries 81
Mean 25.63
Std Dev 0

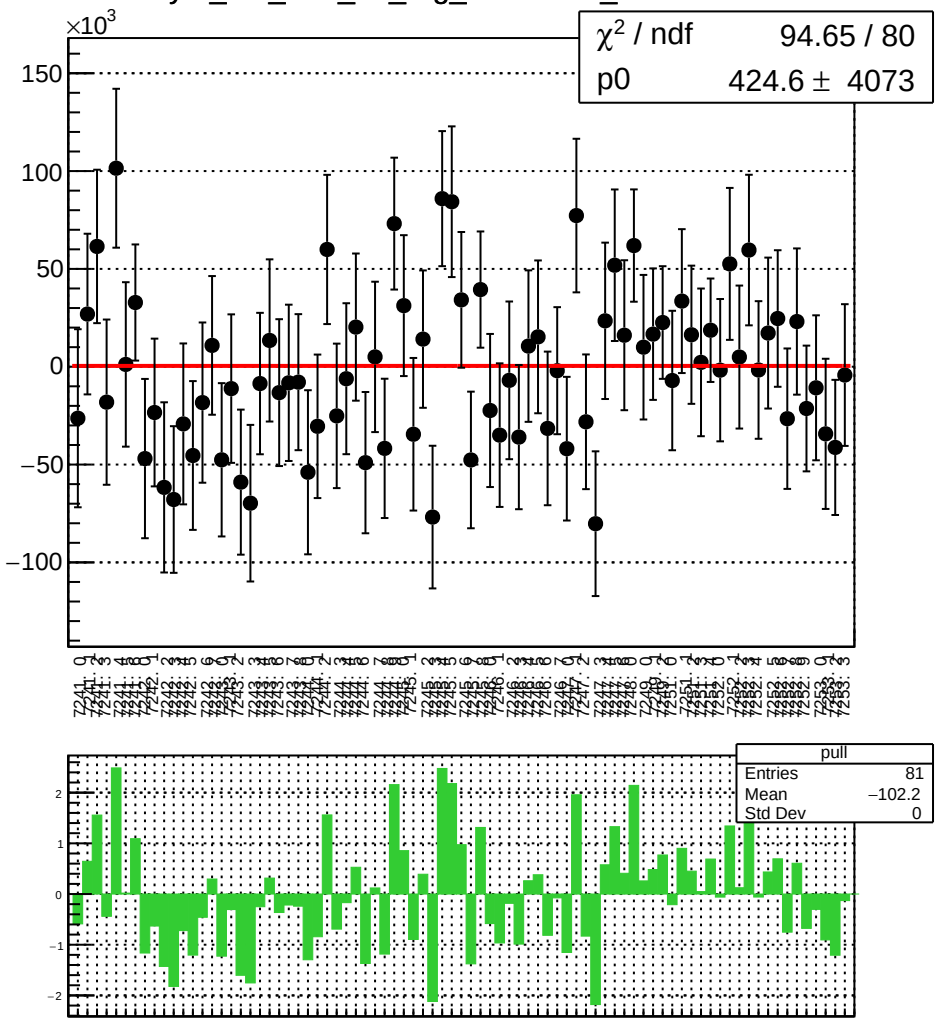

pull1D
Entries 81
Mean −0.02603
Std Dev 1.032

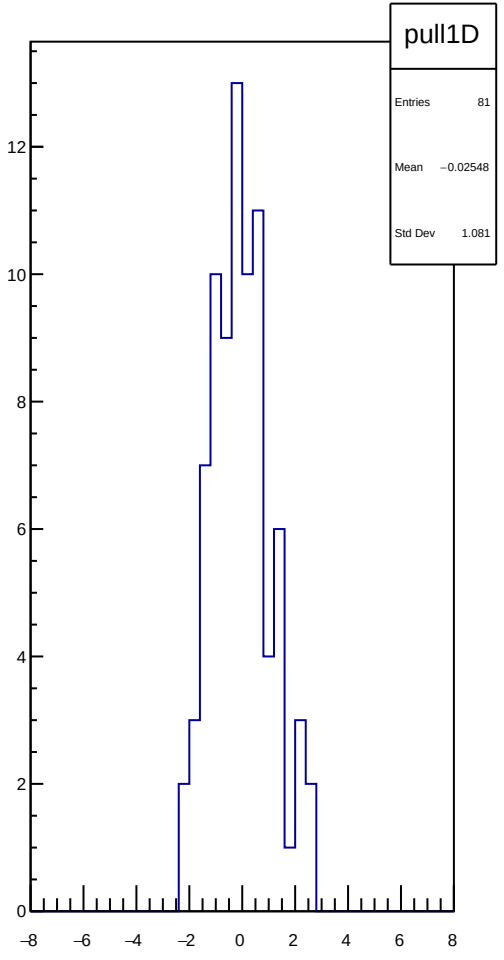

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.426e+05 / 80
p0 8.263e−11 ± 7.522e−14
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

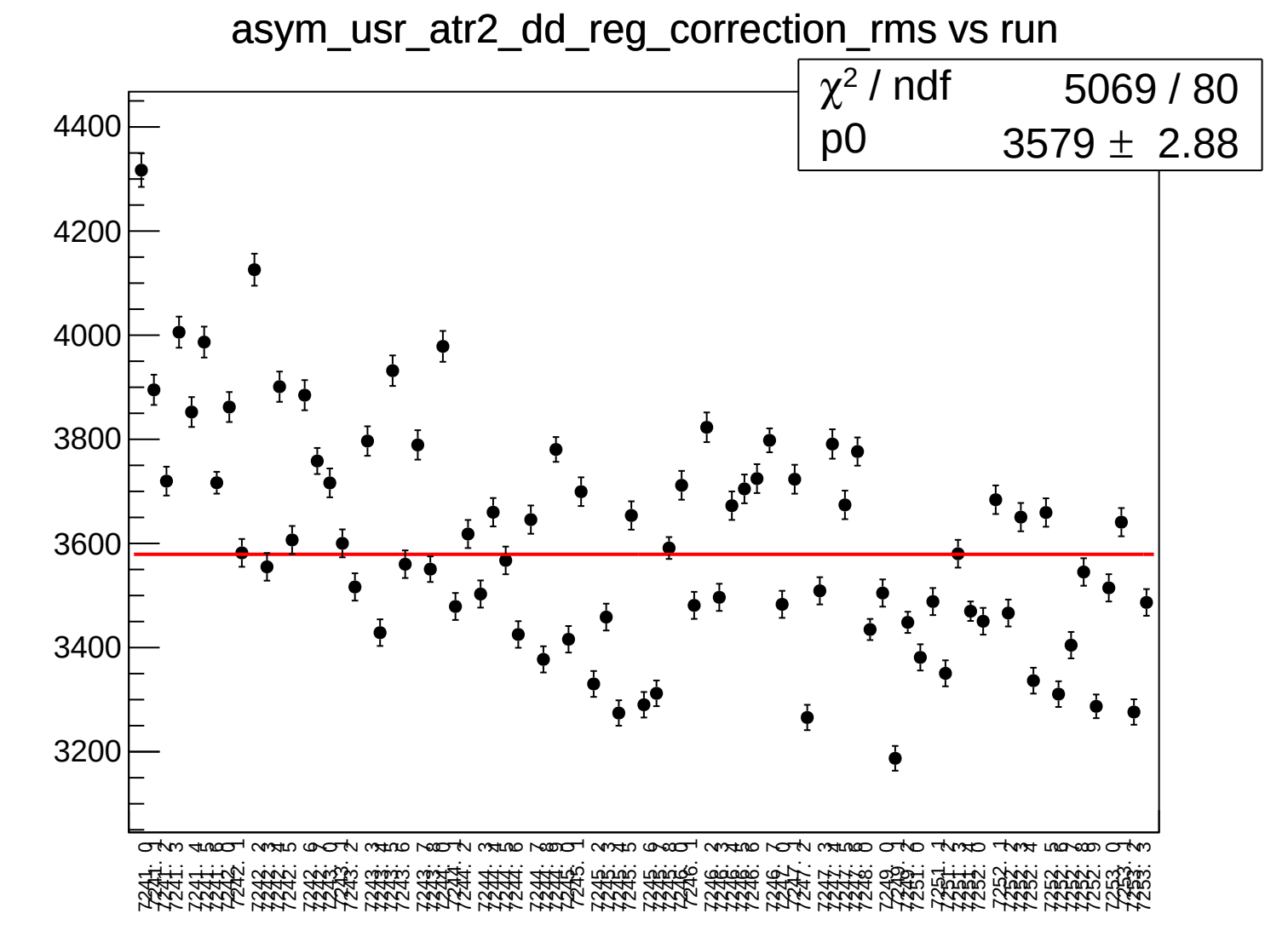

reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 90.57 / 80
p0 21.19 ± 1232
pull
Entries 81
Mean 782.4
Std Dev 0

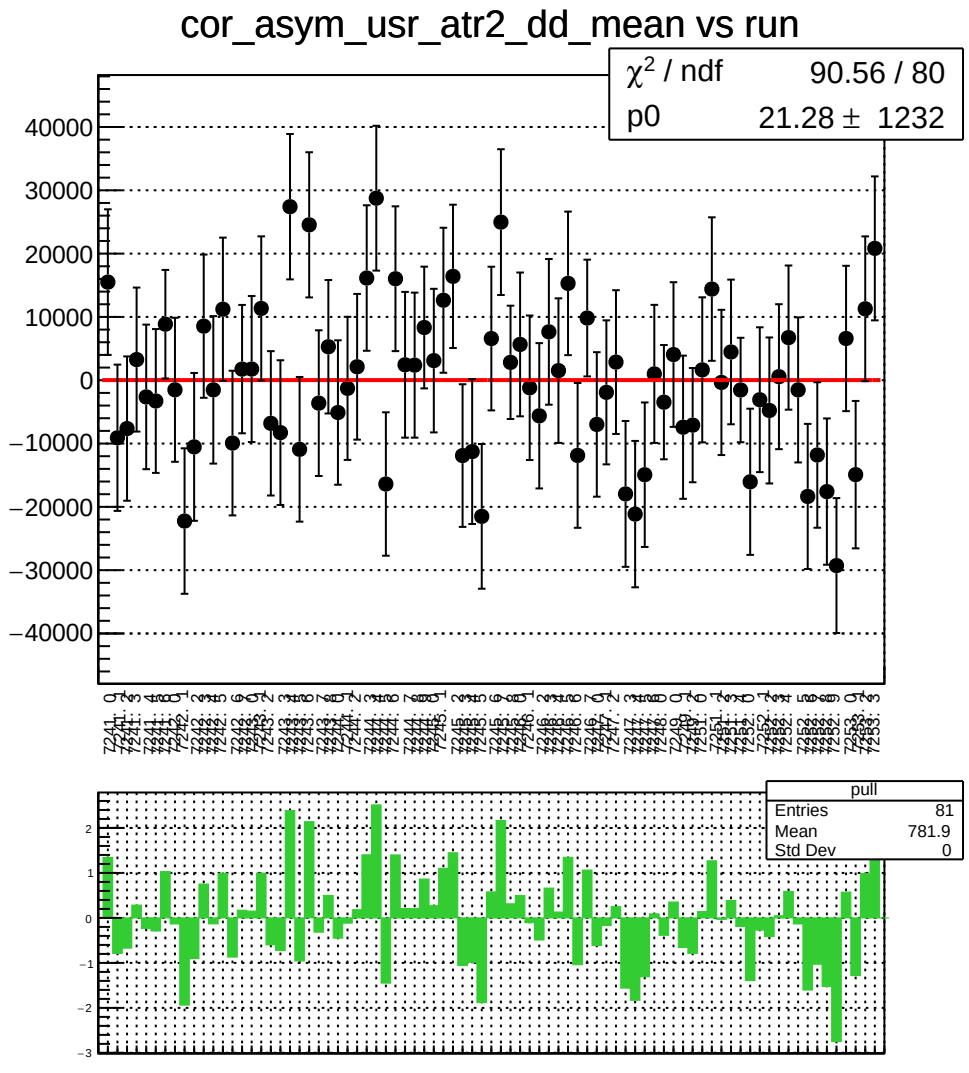

pull1D
Entries 81
Mean −0.005542
Std Dev 1.057

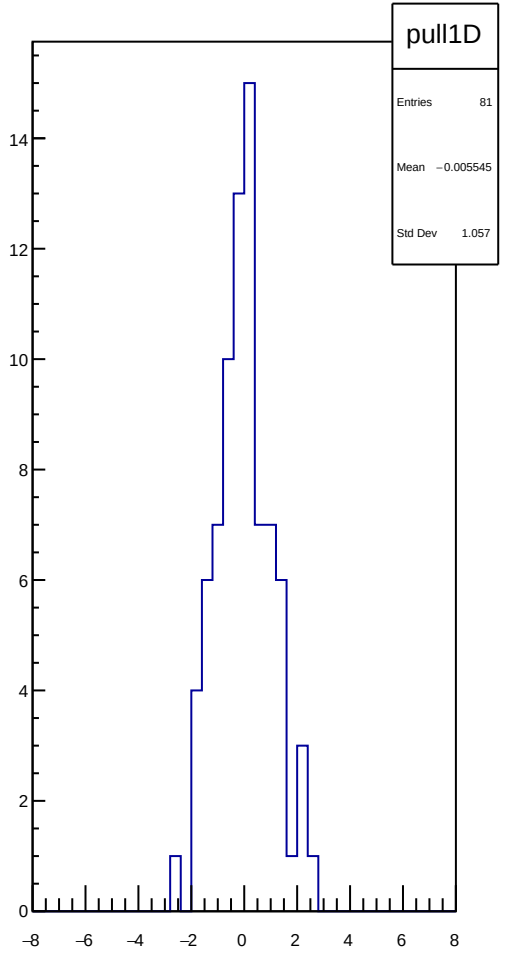

reg_asym_usr_atr2_dd_rms vs run
χ² / ndf 77.75 / 80
p0 1084 ± 0.8711
1120
1110
1100
1090
1080
1070
1060

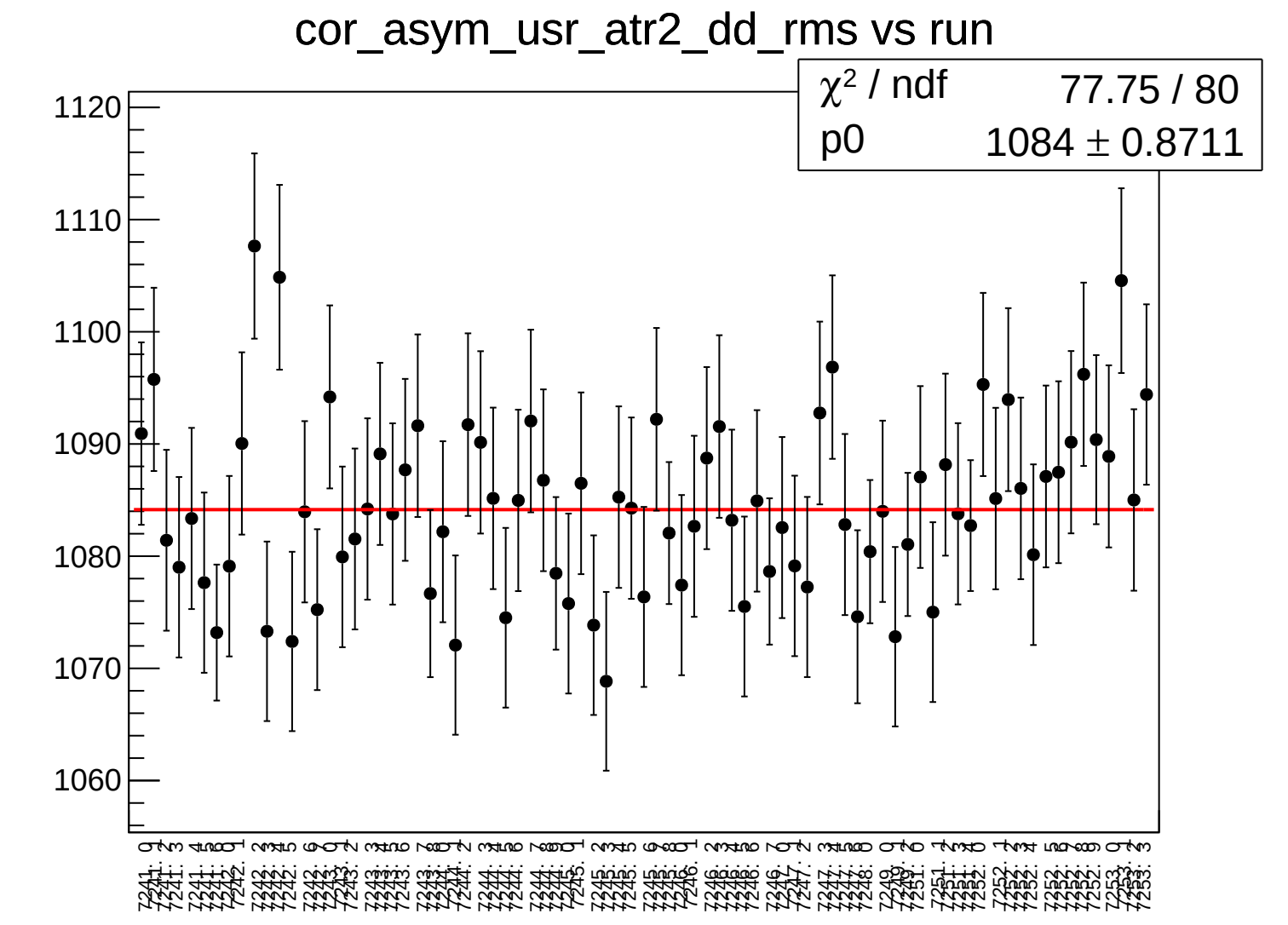

asym_usr_atr2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 94.65 / 80
p0 424.6 ± 4073
150
100
50
0
−50
−100
pull
Entries 81
Mean −102.2
Std Dev 0
2
1
0
−1
−2

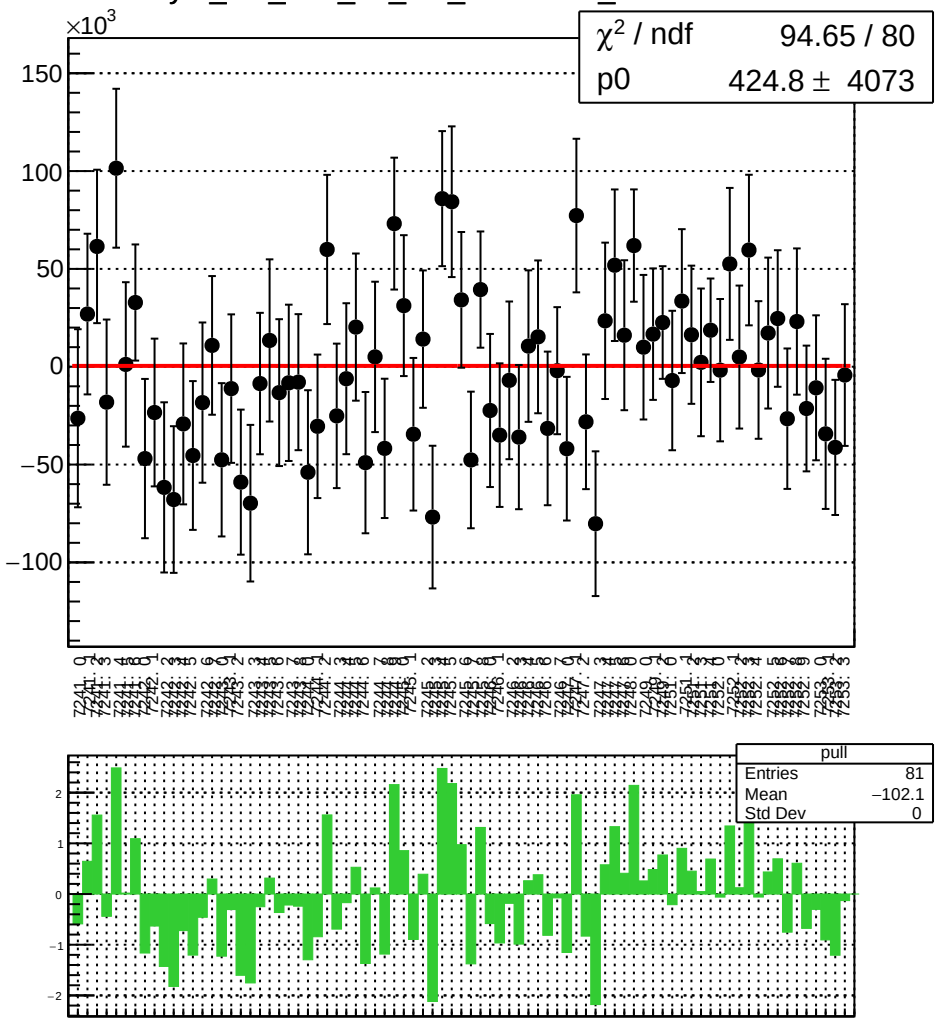

pull1D
Entries 81
Mean −0.02548
Std Dev 1.081
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

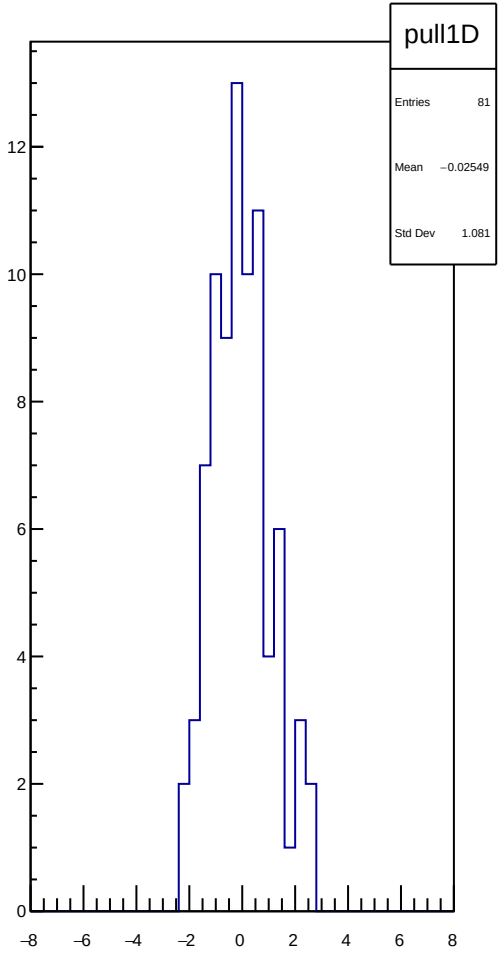

asym_usr_atr2_dd_reg_correction_rms vs run
χ² / ndf 5069 / 80
p0 3579 ± 2.88
4400
4200
4000
3800
3600
3400
3200

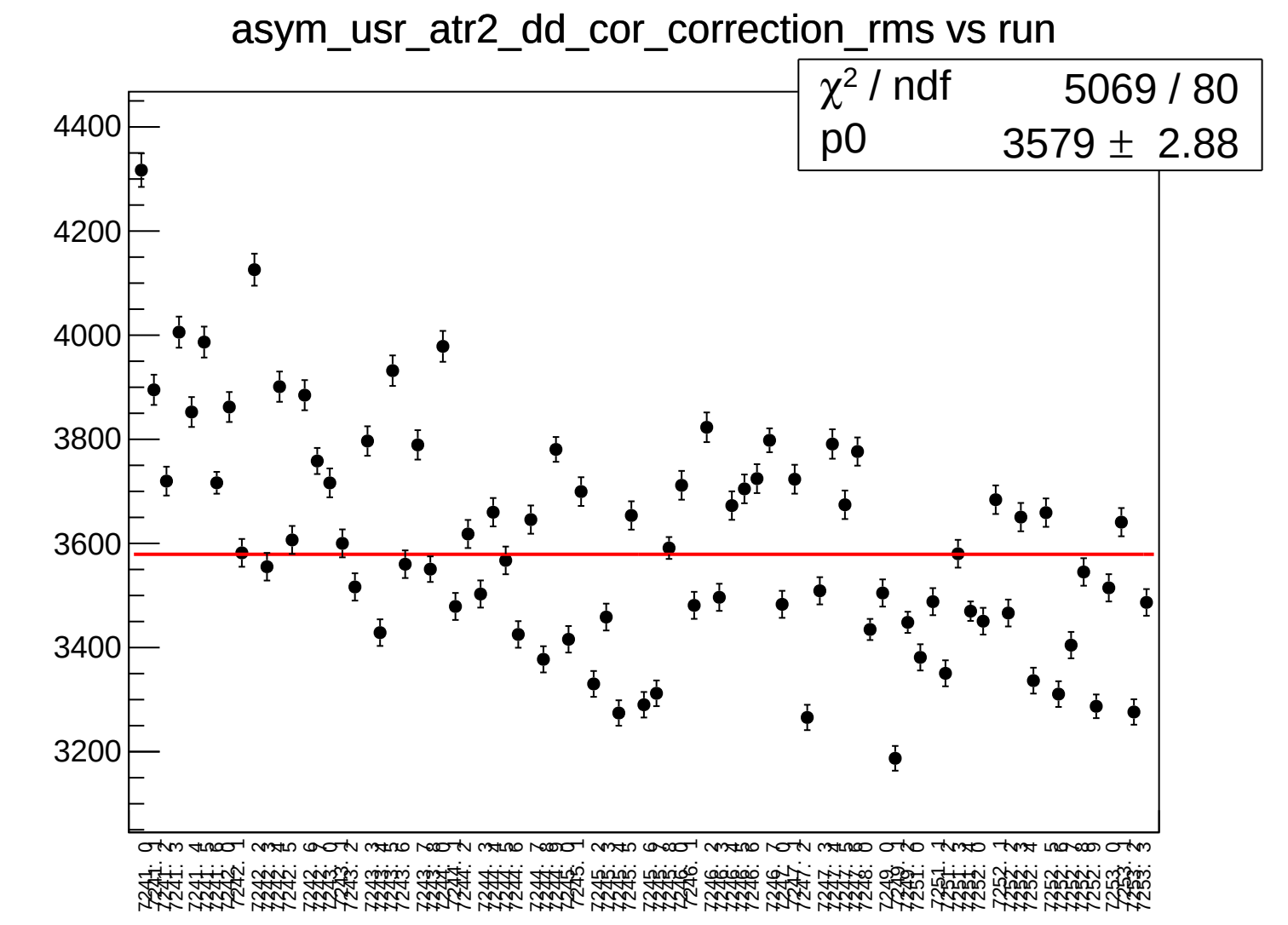

cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 90.56 / 80
p0 21.28 ± 1232
pull
Entries 81
Mean 781.9
Std Dev 0

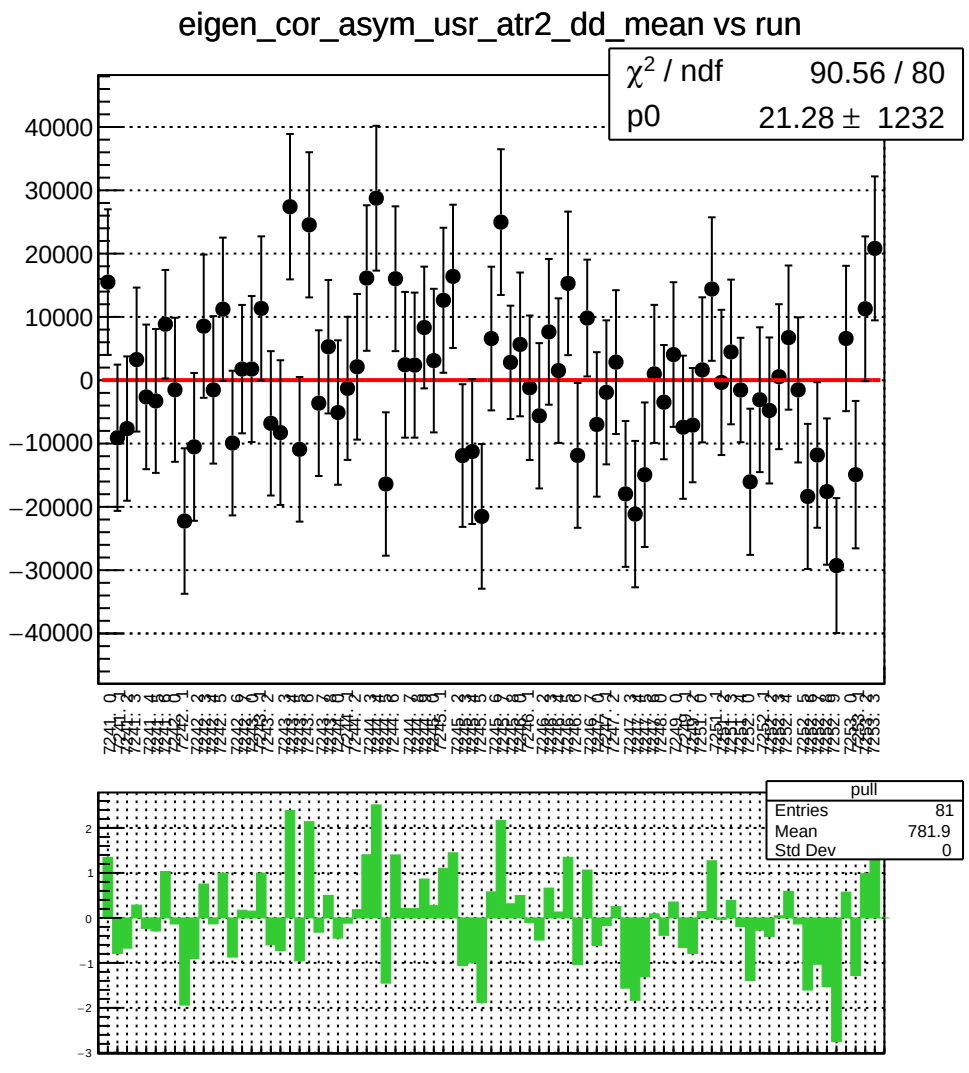

pull1D
Entries 81
Mean −0.005545
Std Dev 1.057

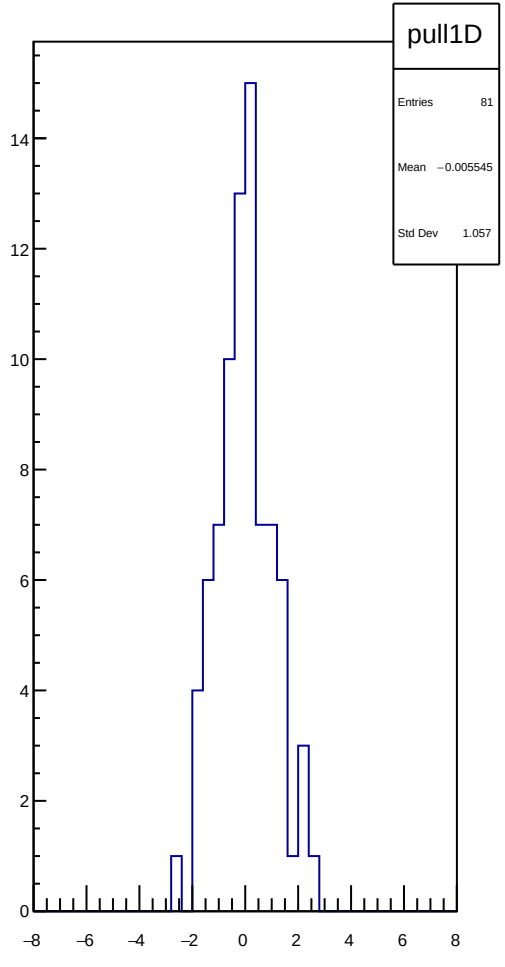

cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 77.75 / 80
p0 1084 ± 0.8711
1120
1110
1100
1090
1080
1070
1060

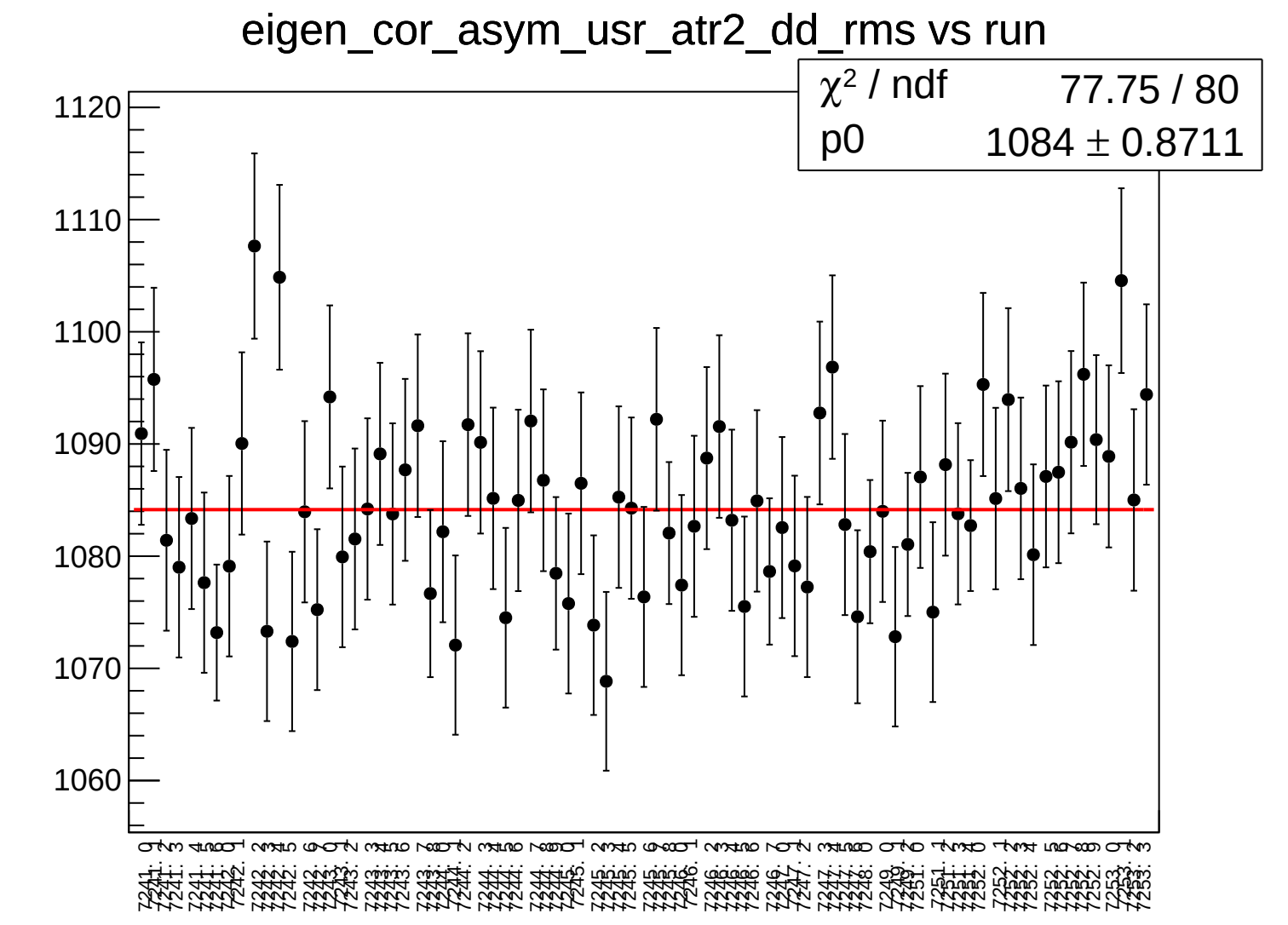

asym_usr_atr2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 94.65 / 80
p0 424.8 ± 4073
150
100
50
0
−50
−100
pull
Entries 81
Mean −102.1
Std Dev 0
2
1
0
−1
−2

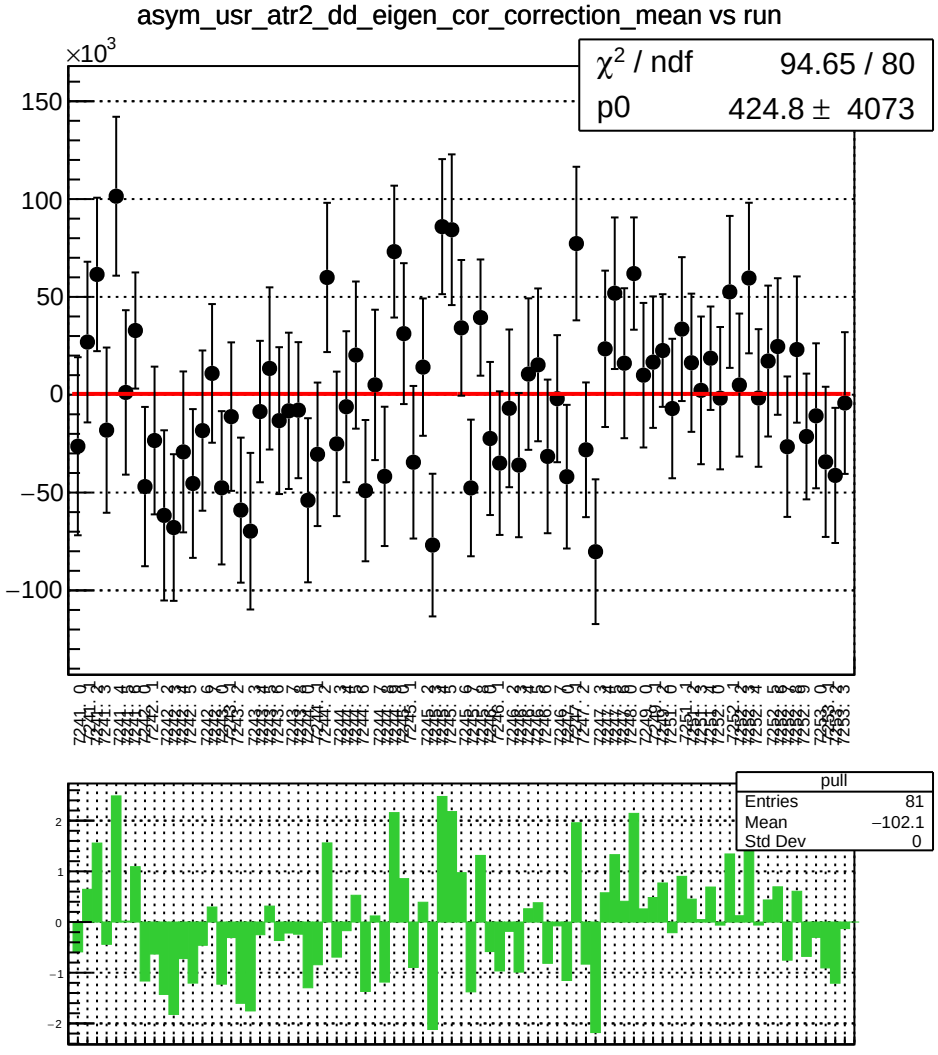

pull1D
Entries 81
Mean −0.02549
Std Dev 1.081
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

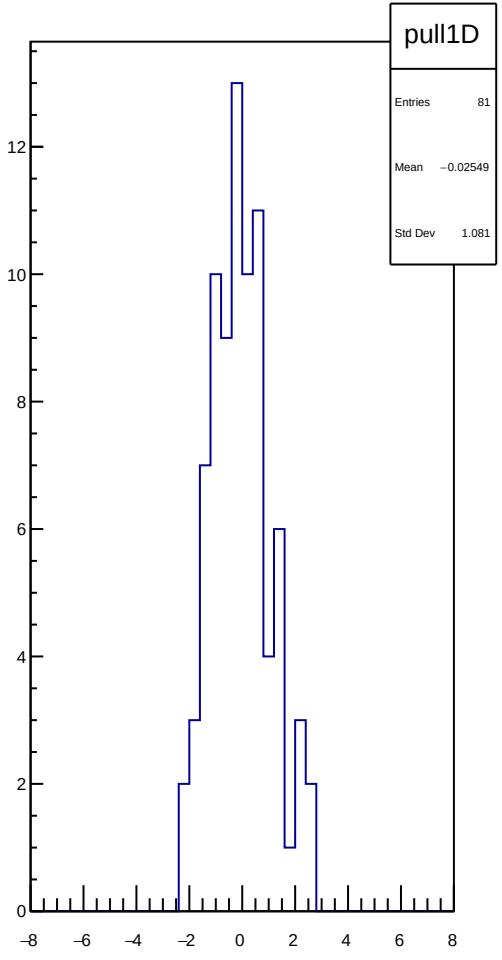

asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 5069 / 80
p0 3579 ± 2.88
4400
4200
4000
3800
3600
3400
3200

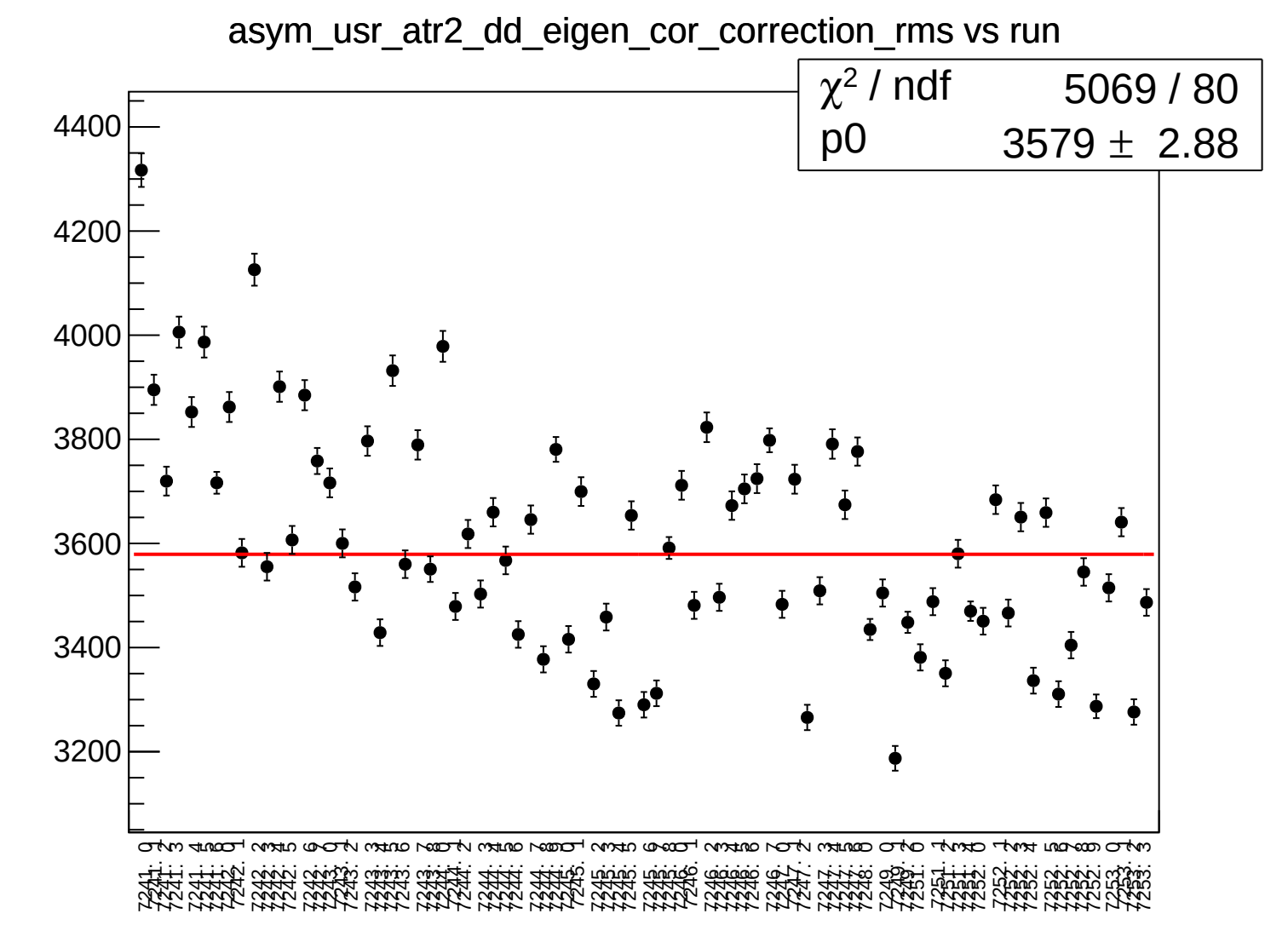

eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 90.56 / 80
p0 21.28 ± 1232
pull
Entries 81
Mean 781.9
Std Dev 0

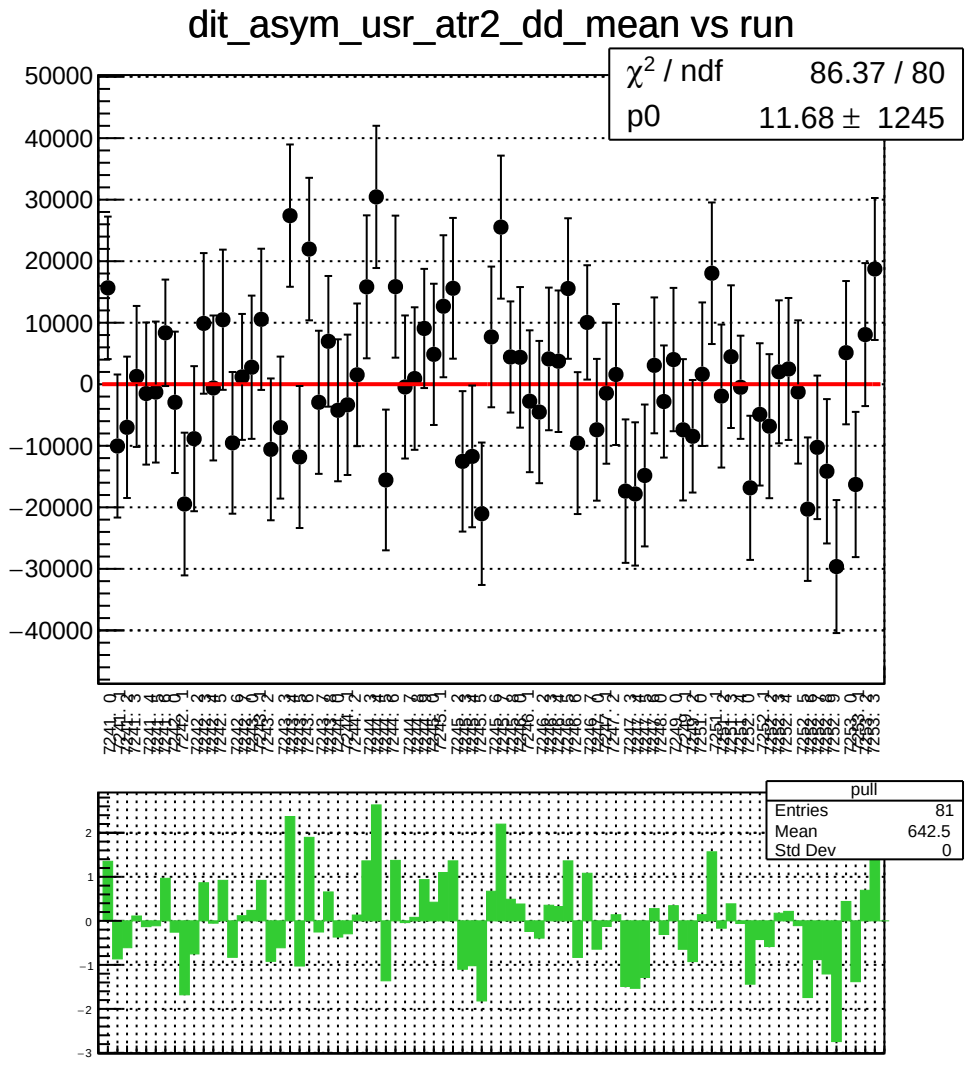

pull1D
Entries 81
Mean −0.005545
Std Dev 1.057

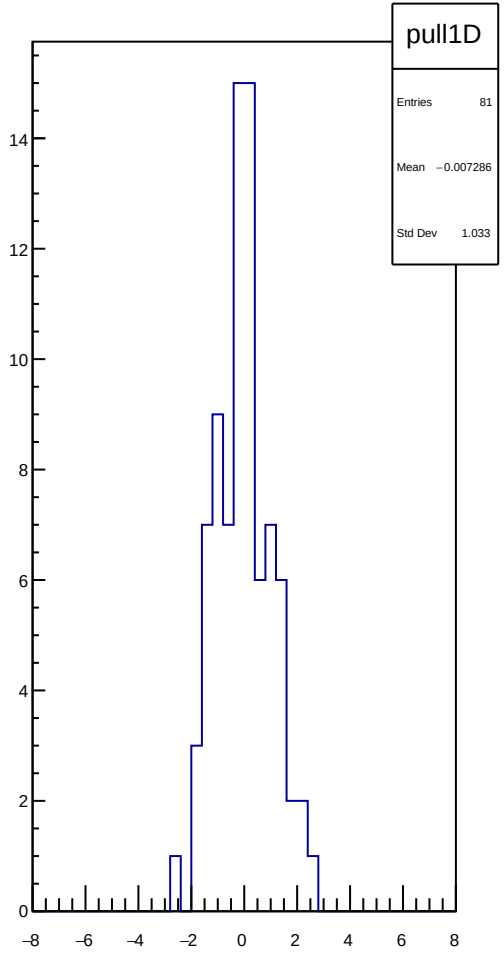

eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 77.75 / 80
p0 1084 ± 0.8711
1120
1110
1100
1090
1080
1070
1060

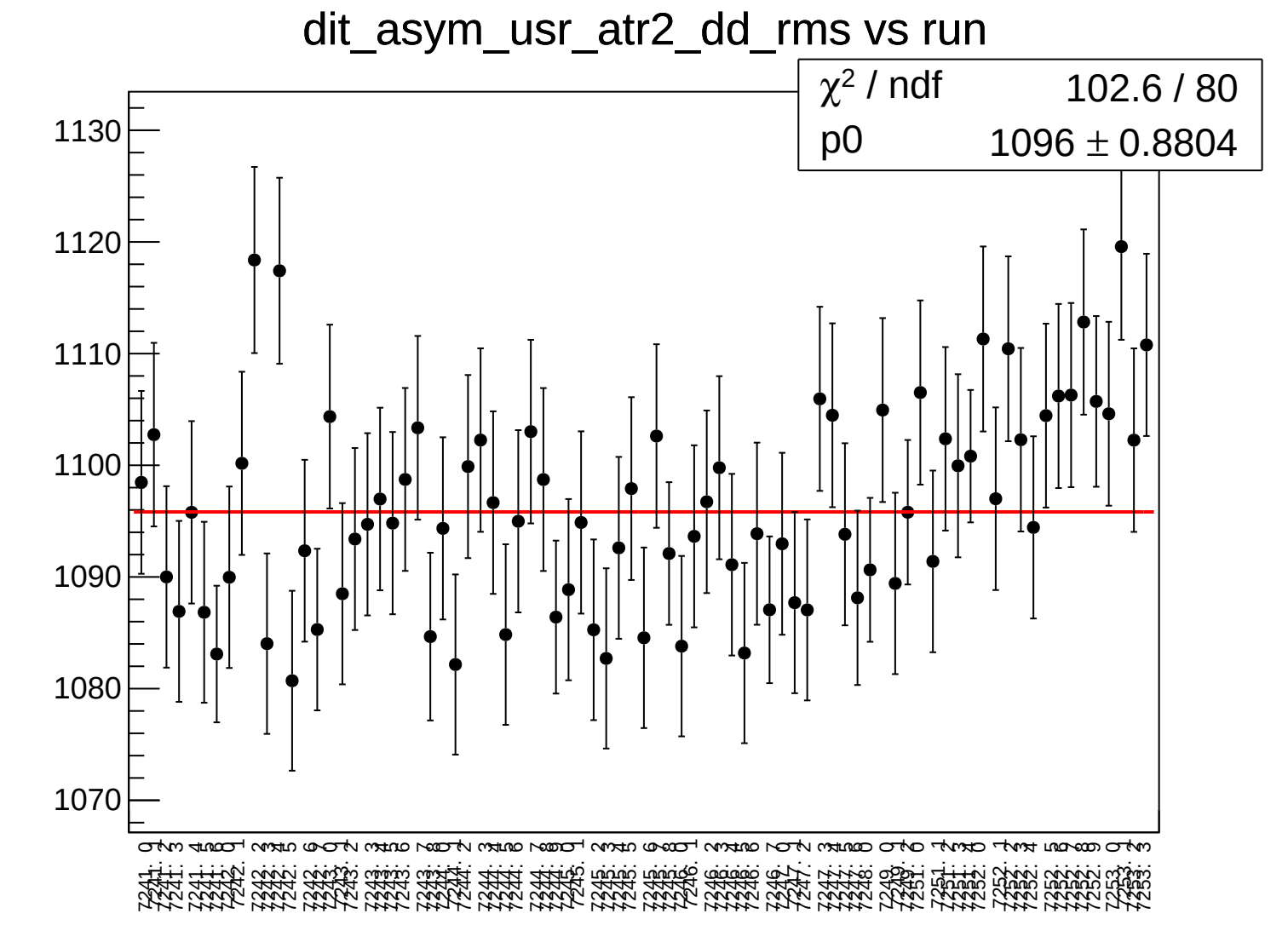

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 94.65 / 80
p0 424.8 ± 4073
pull
Entries 81
Mean −102.1
Std Dev 0

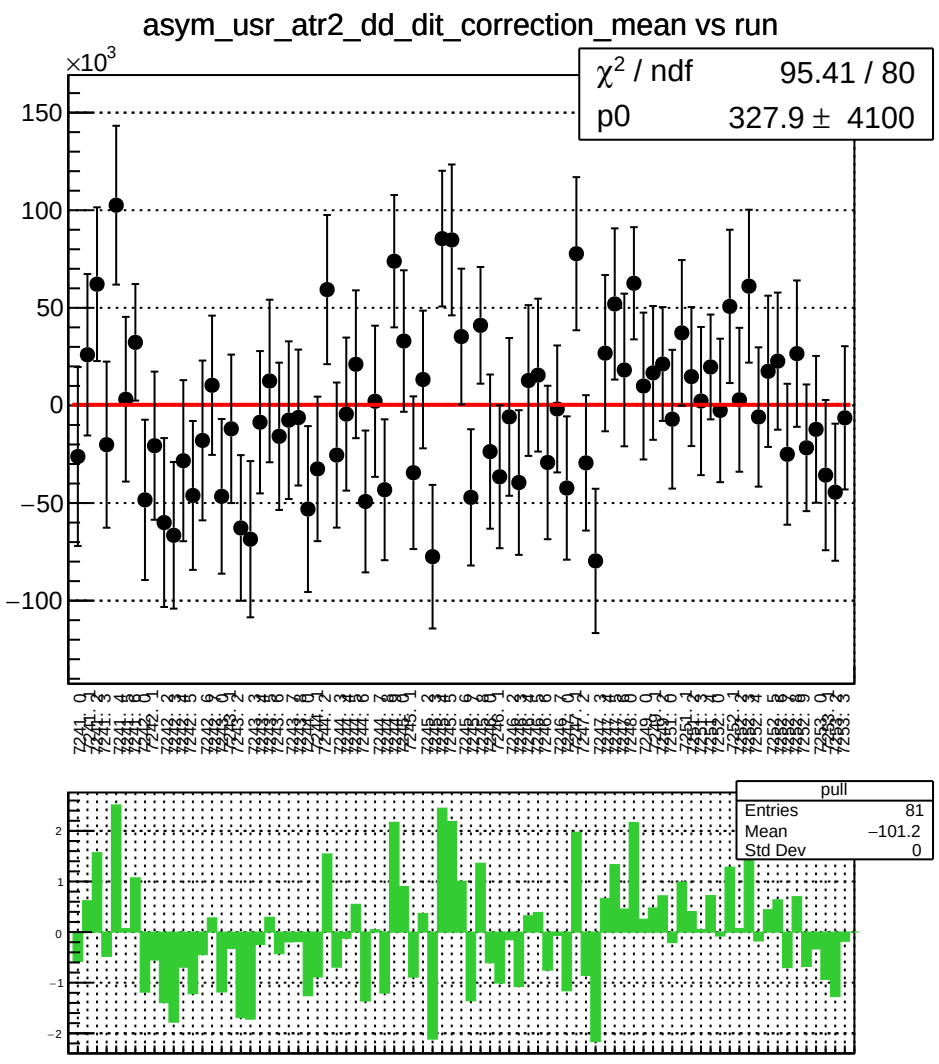

pull1D
Entries 81
Mean −0.02549
Std Dev 1.081

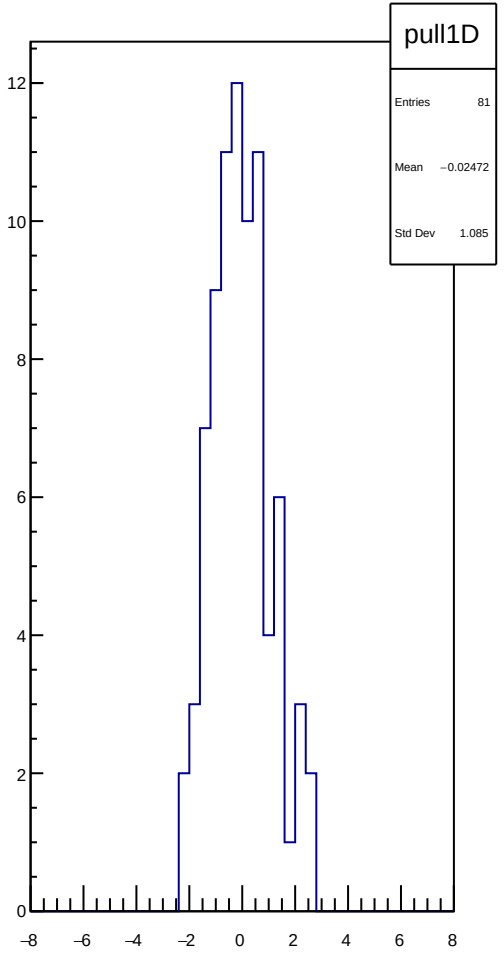

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 5069 / 80
p0 3579 ± 2.88
4400
4200
4000
3800
3600
3400
3200

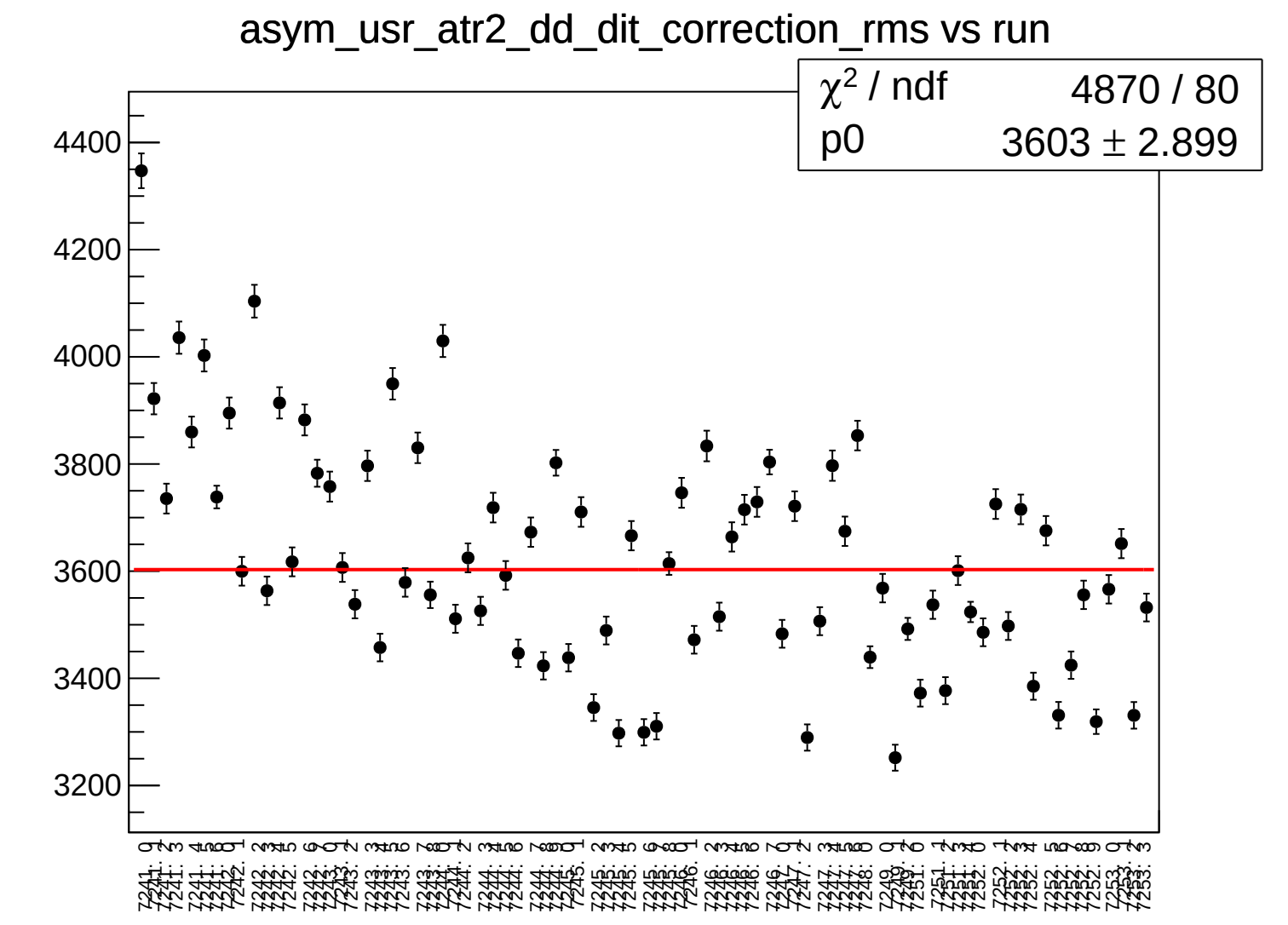

dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 86.37 / 80
p0 11.68 ± 1245
pull
Entries 81
Mean 642.5
Std Dev 0

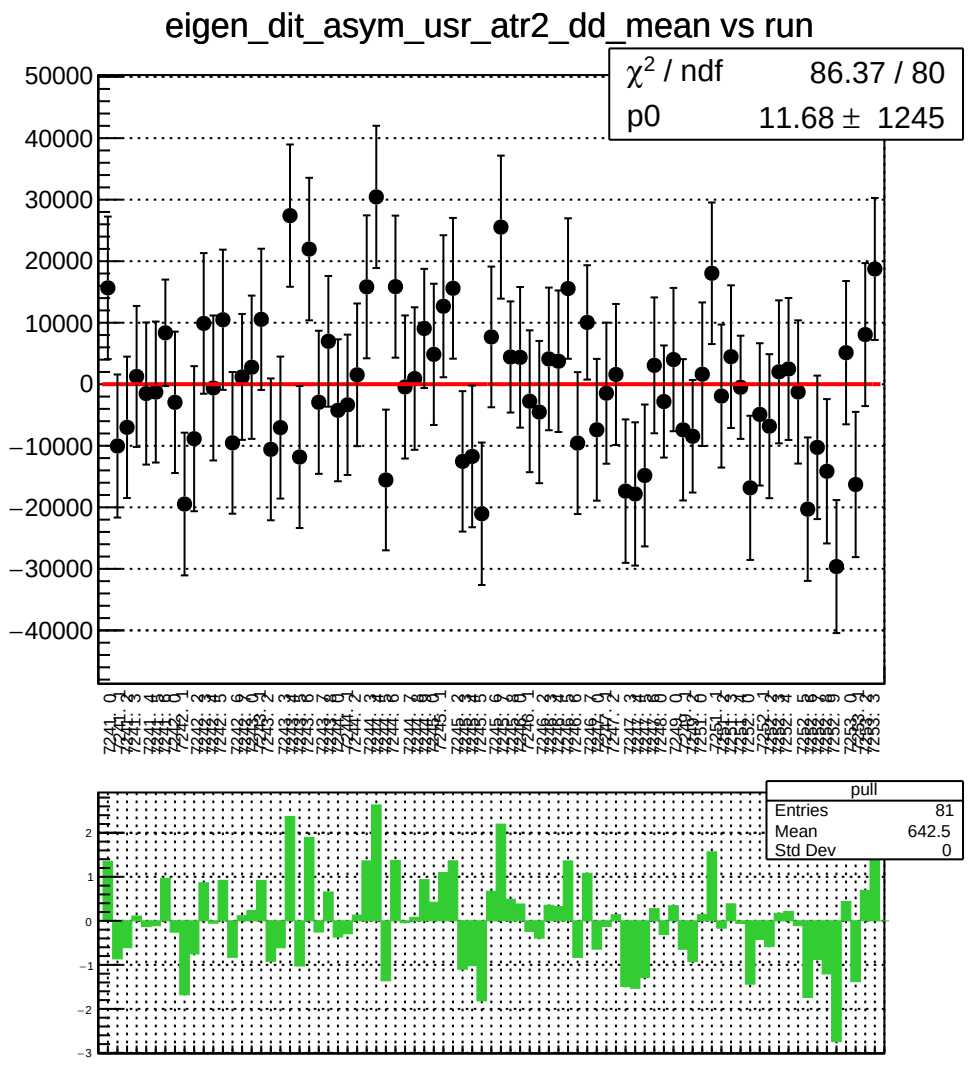

pull1D
Entries 81
Mean −0.007286
Std Dev 1.033

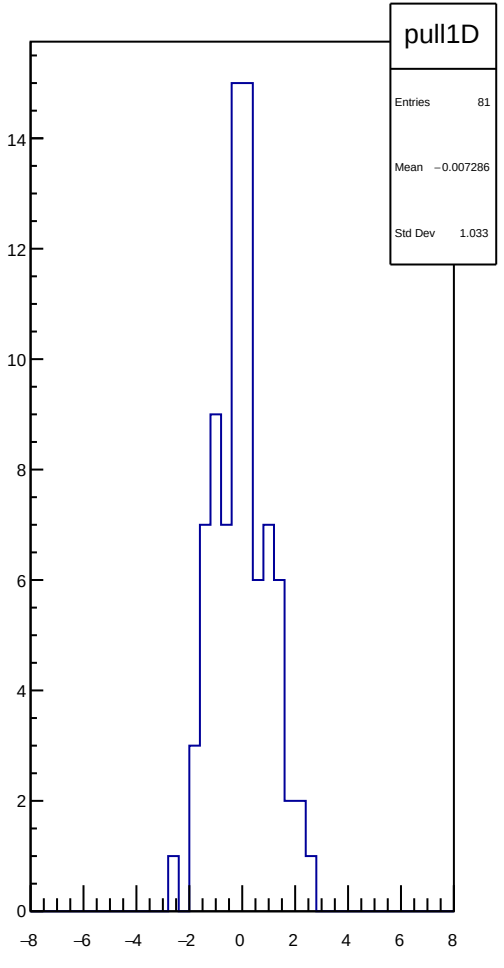

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 102.6 / 80
p0 1096 ± 0.8804
1130
1120
1110
1100
1090
1080
1070

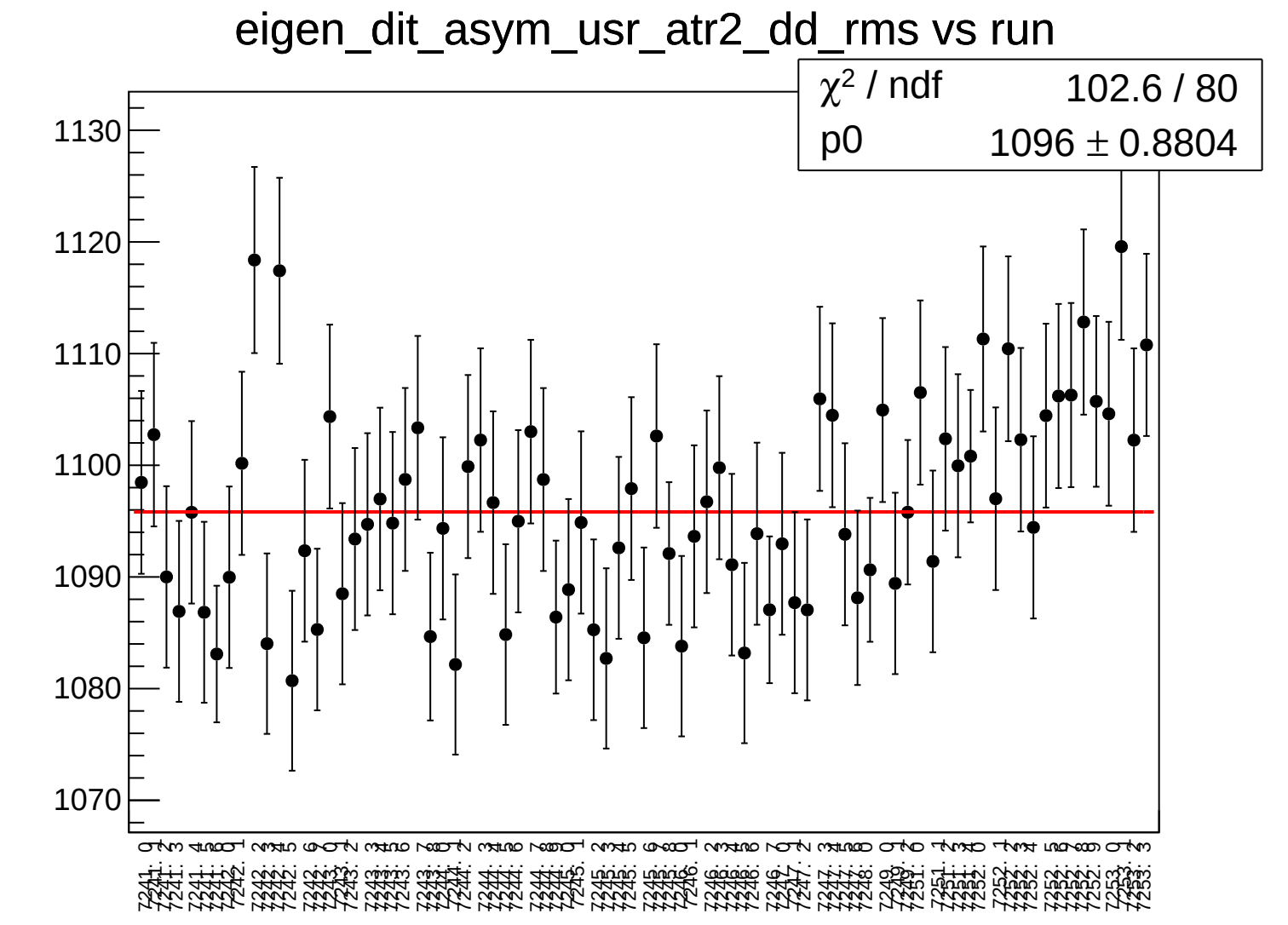

asym_usr_atr2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 95.41 / 80
p0 327.9 ± 4100
150
100
50
0
−50
−100
pull
Entries 81
Mean −101.2
Std Dev 0
2
1
0
−1
−2

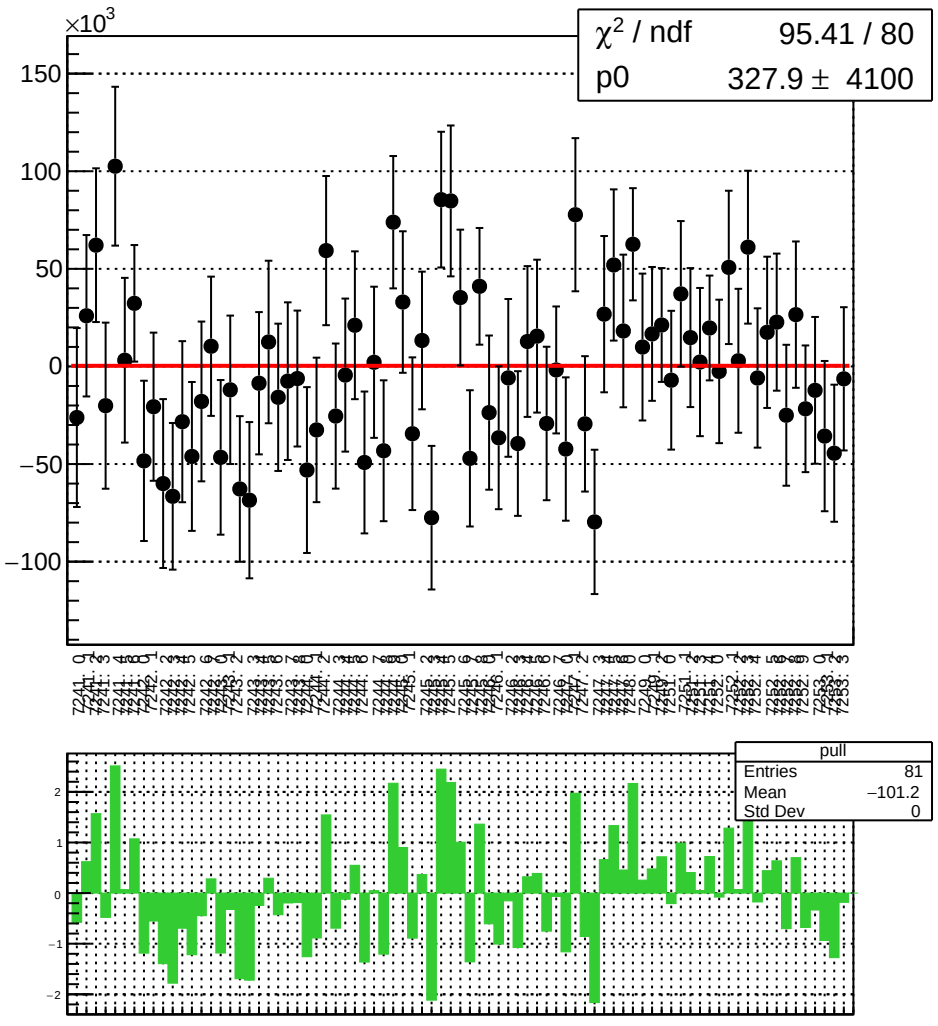

pull1D
Entries 81
Mean −0.02472
Std Dev 1.085
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

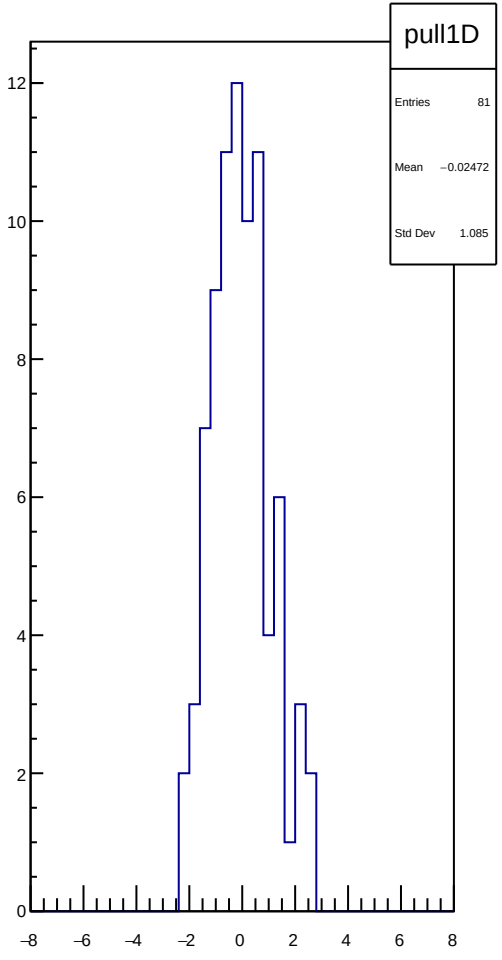

asym_usr_atr2_dd_dit_correction_rms vs run
χ² / ndf 4870 / 80
p0 3603 ± 2.899
4400
4200
4000
3800
3600
3400
3200

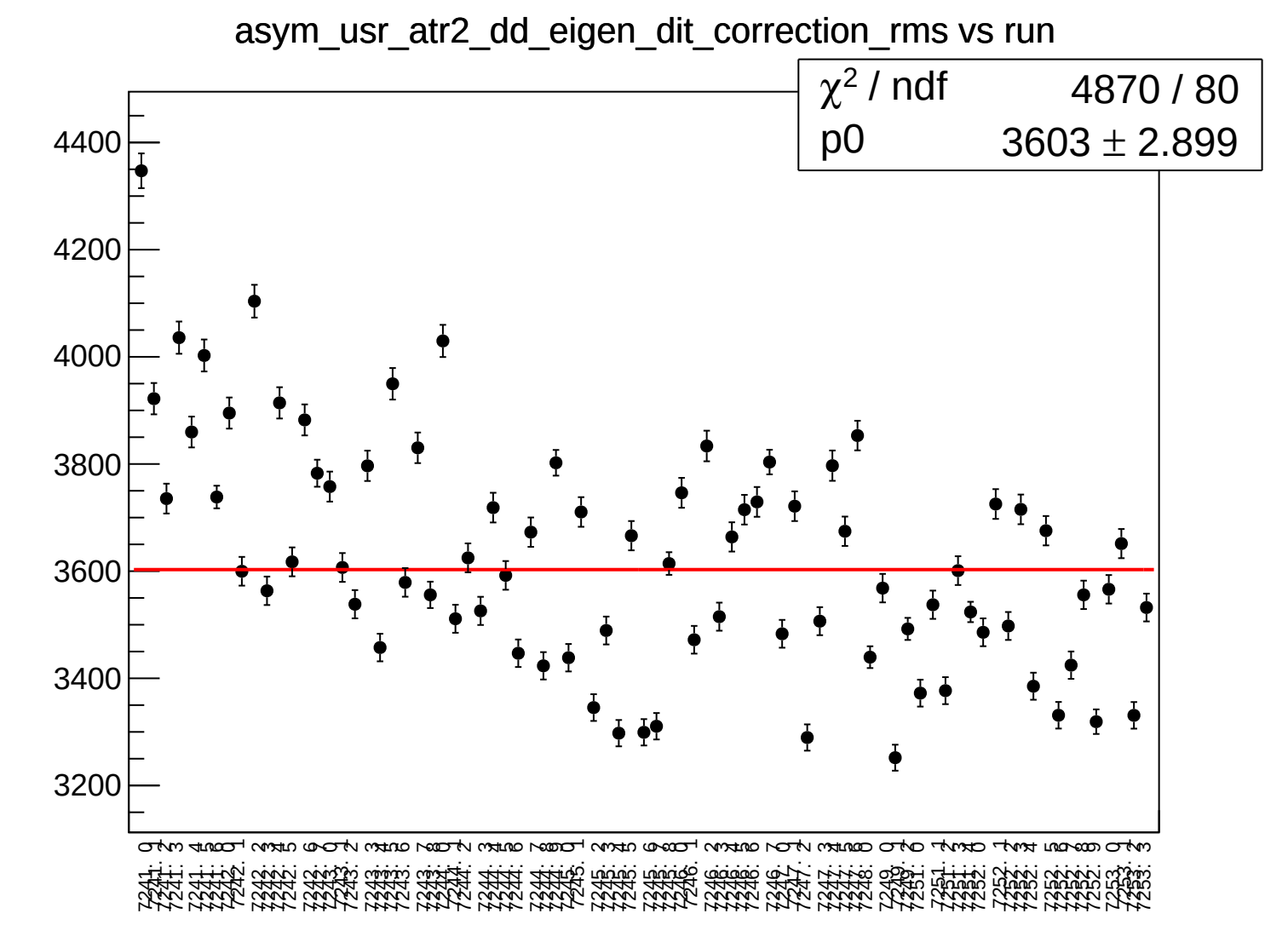

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 86.37 / 80
p0 11.68 ± 1245
pull
Entries 81
Mean 642.5
Std Dev 0

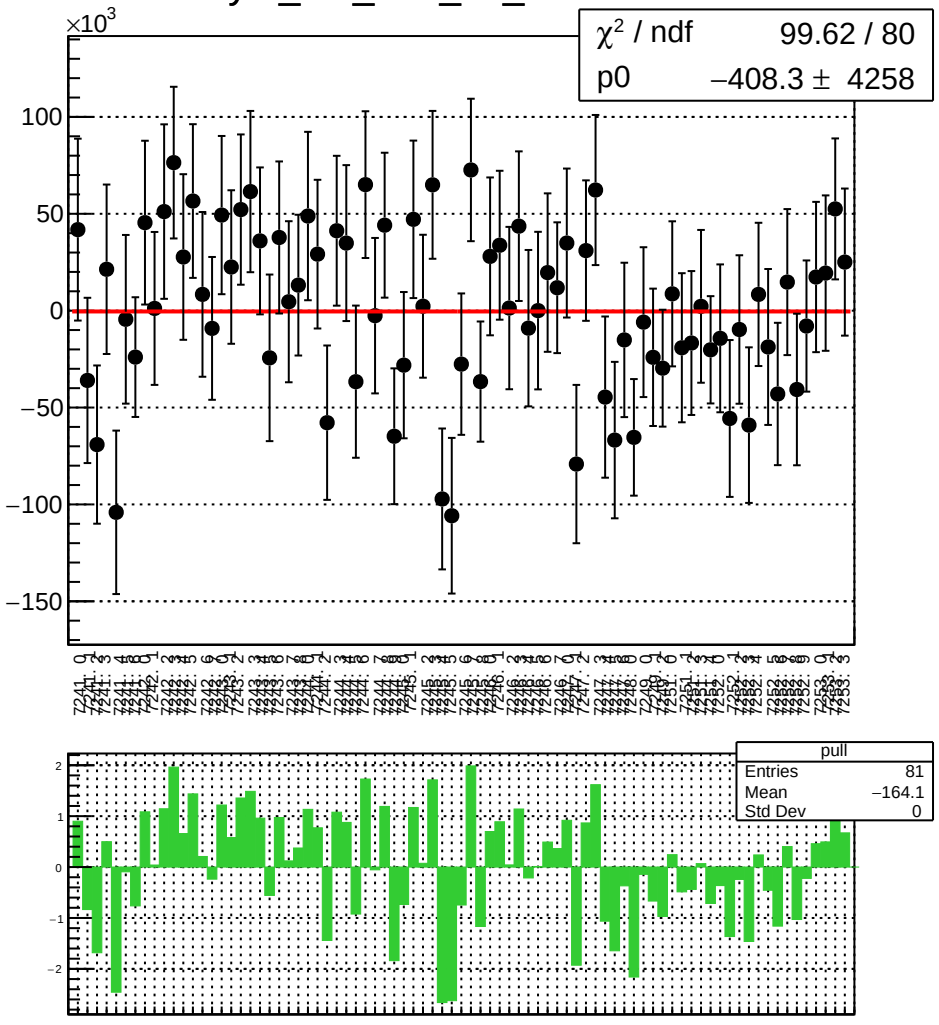

pull1D
Entries 81
Mean −0.007286
Std Dev 1.033

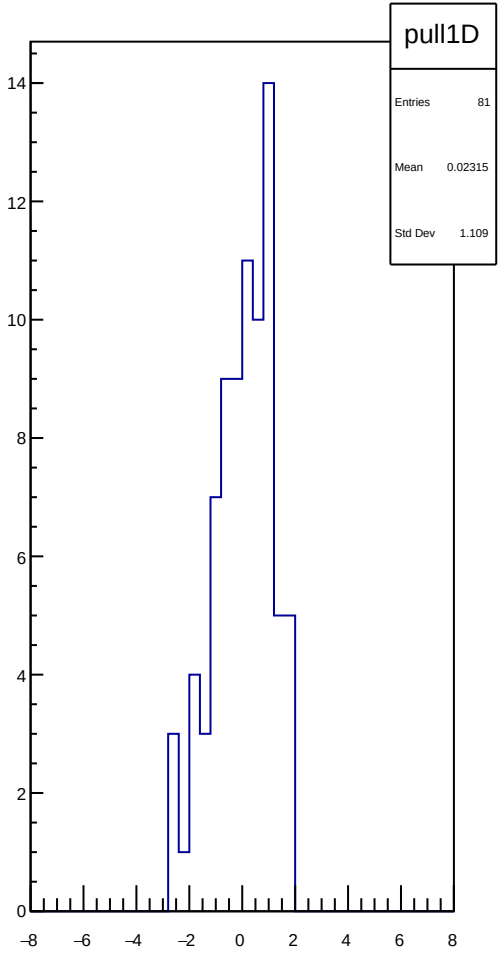

eigen_dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 102.6 / 80
p0 1096 ± 0.8804
1130
1120
1110
1100
1090
1080
1070

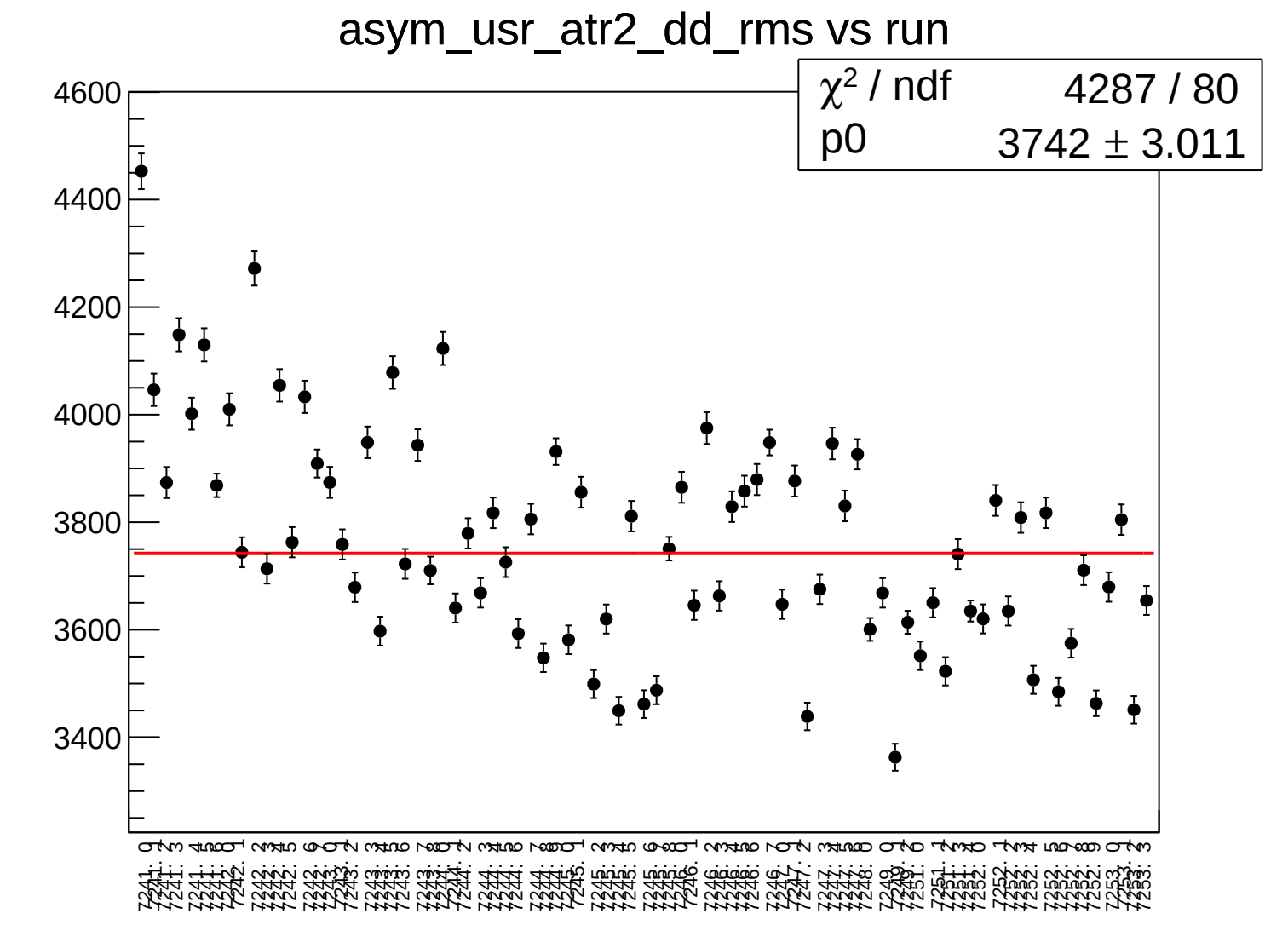

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 95.41 / 80
p0 327.9 ± 4100
150
100
50
0
−50
−100
pull
Entries 81
Mean −101.2
Std Dev 0
2
1
0
−1
−2

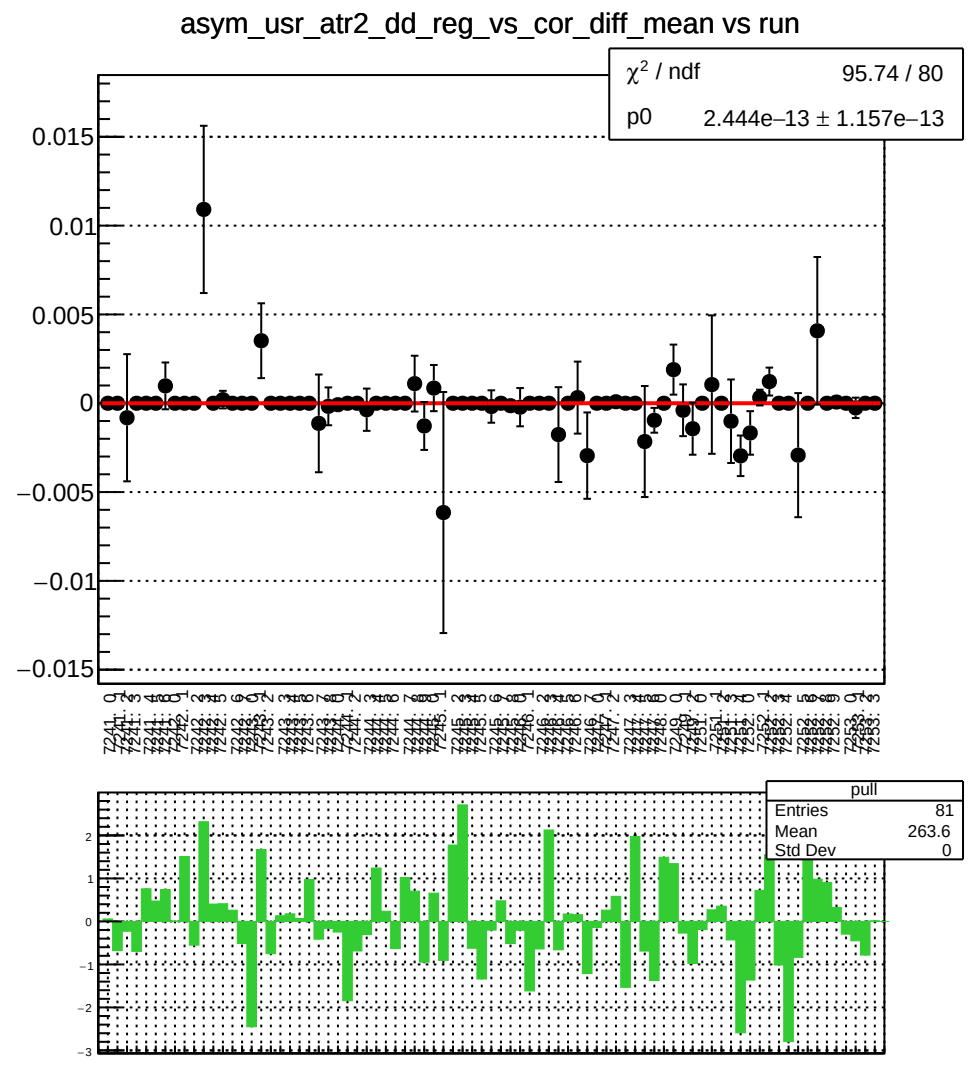

pull1D
Entries 81
Mean −0.02472
Std Dev 1.085
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

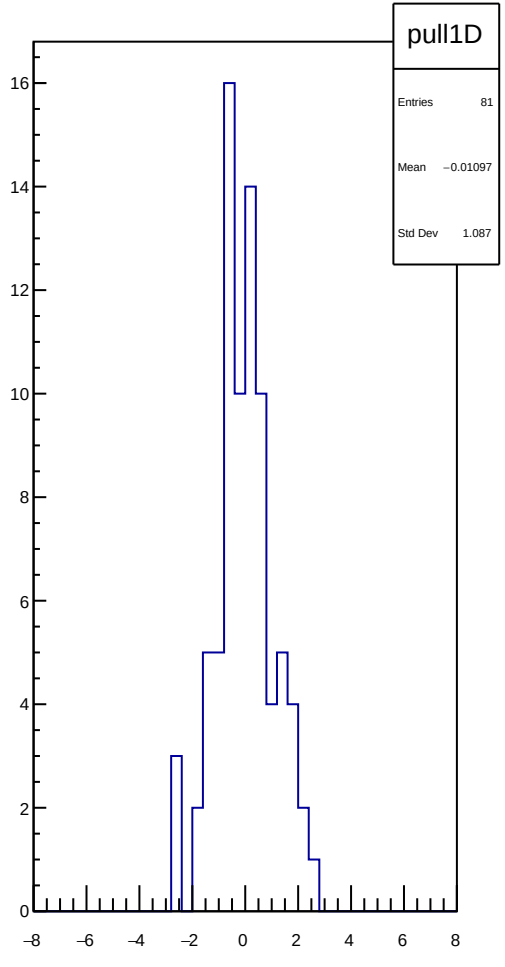

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 4870 / 80
p0 3603 ± 2.899
4400
4200
4000
3800
3600
3400
3200

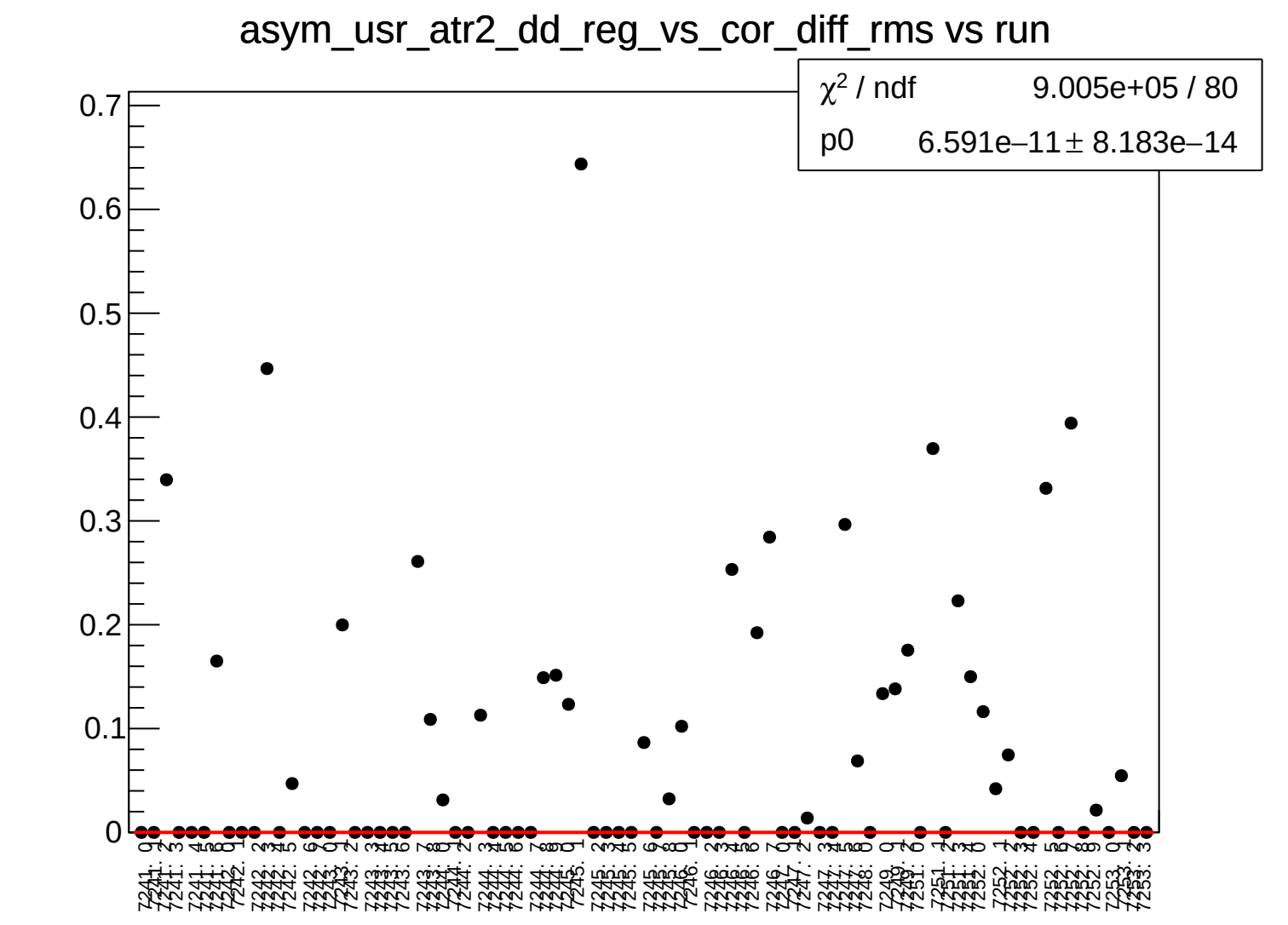

asym_usr_atr2_dd_mean vs run
×10^3
χ² / ndf 99.62 / 80
p0 −408.3 ± 4258
100
50
0
−50
−100
−150
pull
Entries 81
Mean −164.1
Std Dev 0
2
1
0
−1
−2

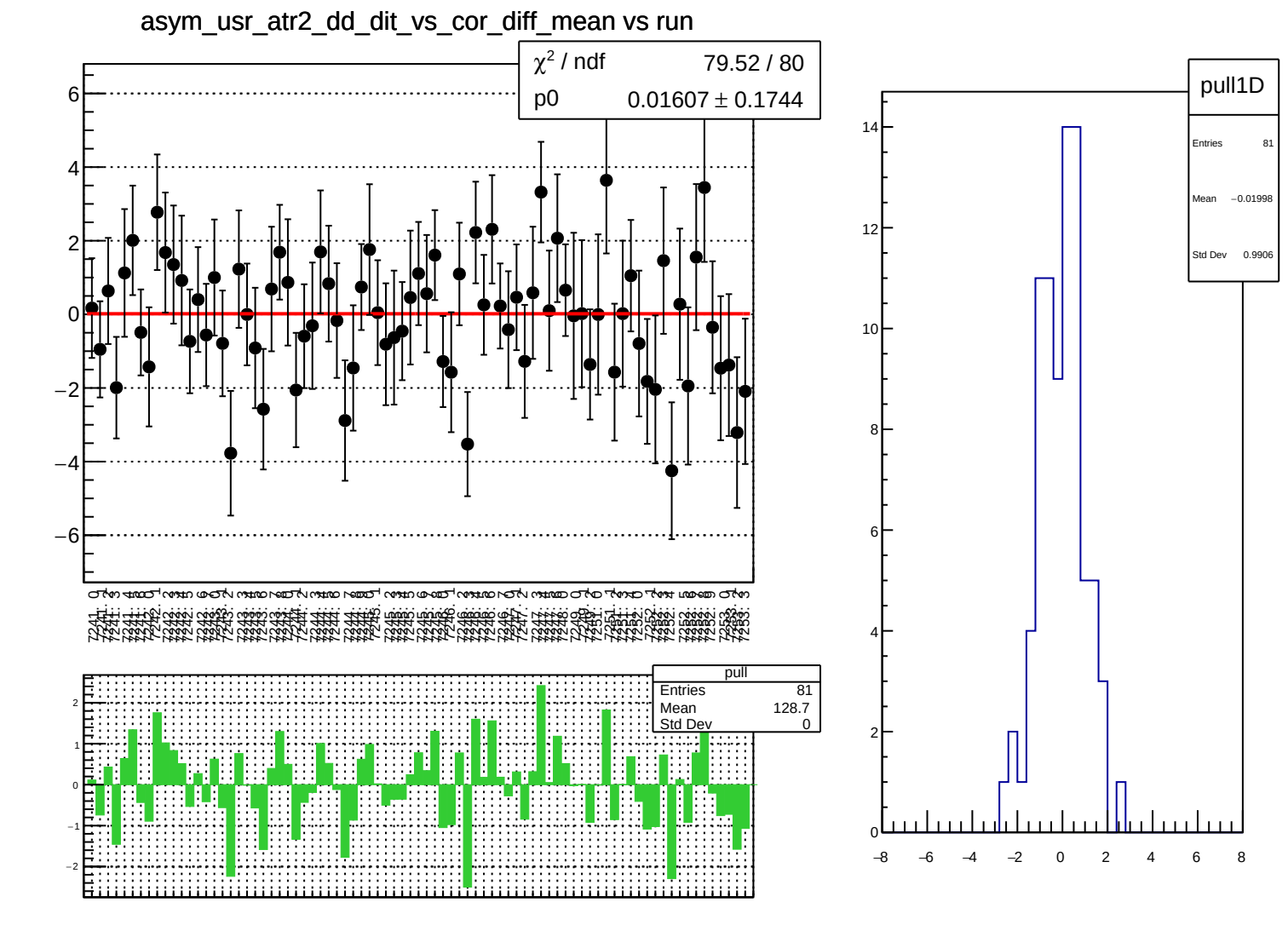

pull1D
Entries 81
Mean 0.02315
Std Dev 1.109
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

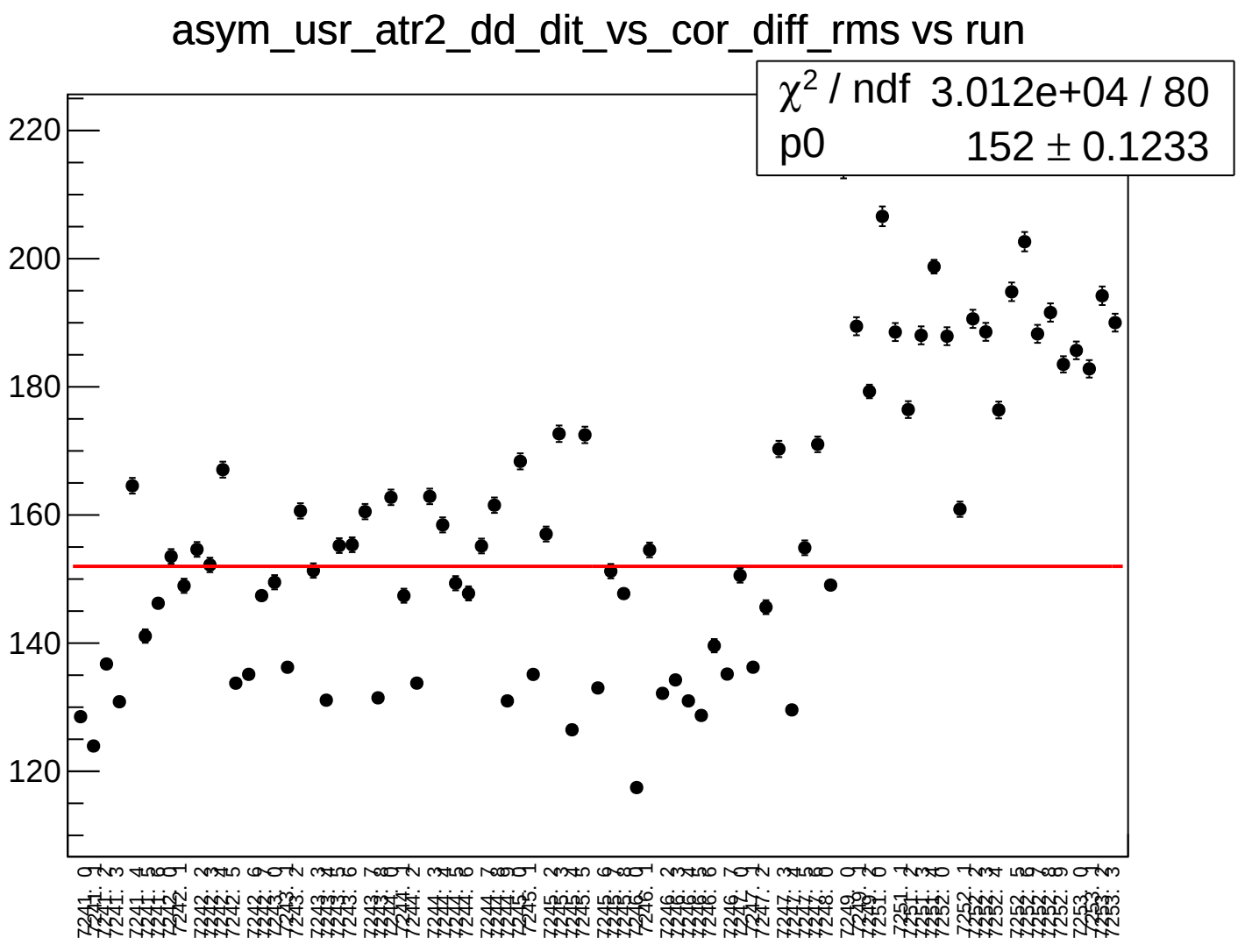

asym_usr_atr2_dd_rms vs run
χ² / ndf 4287 / 80
p0 3742 ± 3.011
4600
4400
4200
4000
3800
3600
3400

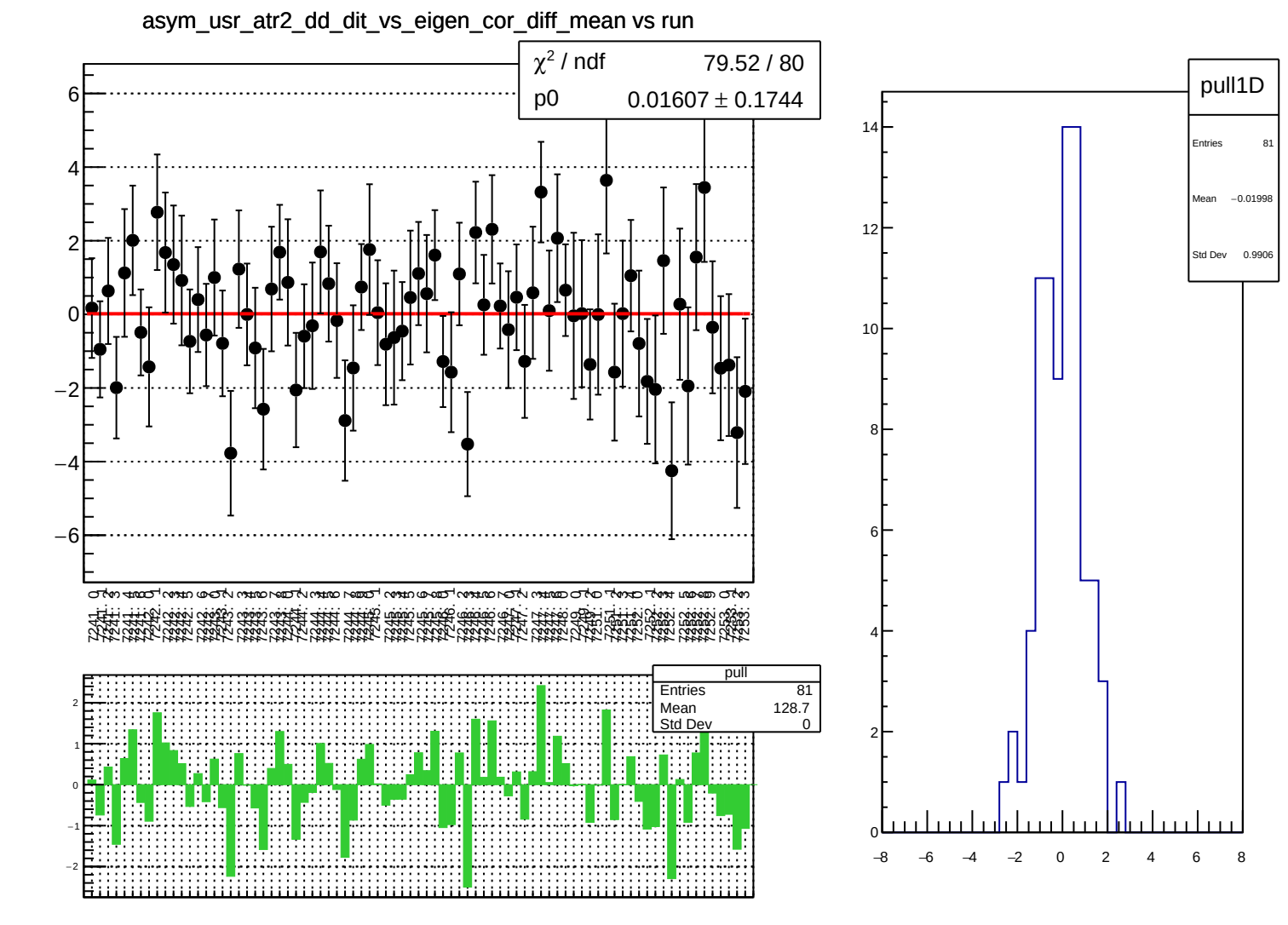

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 95.74 / 80
p0 2.444e−13 ± 1.157e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 81
Mean 263.6
Std Dev 0
2
1
0
−1
−2
−3

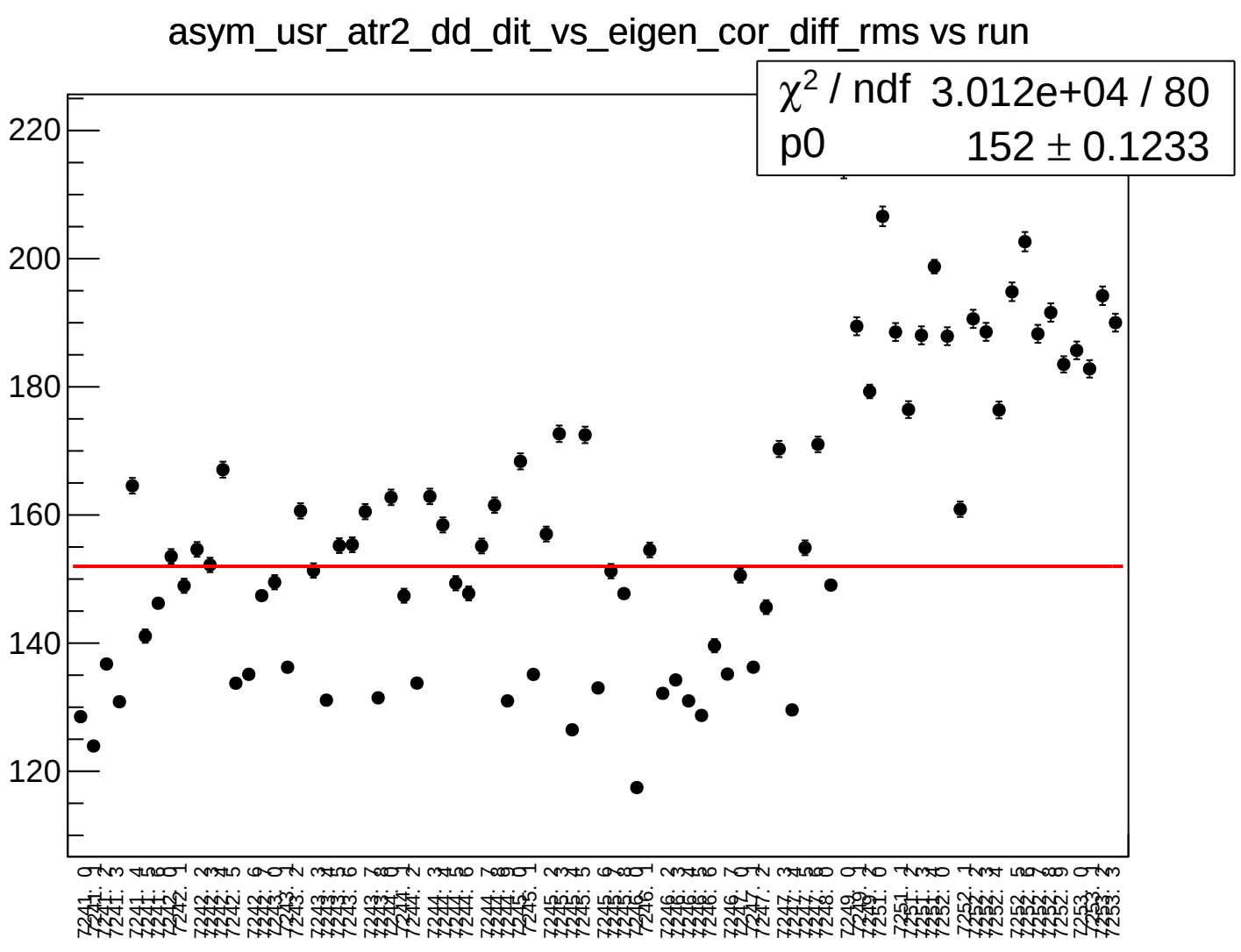

pull1D
Entries 81
Mean −0.01097
Std Dev 1.087
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

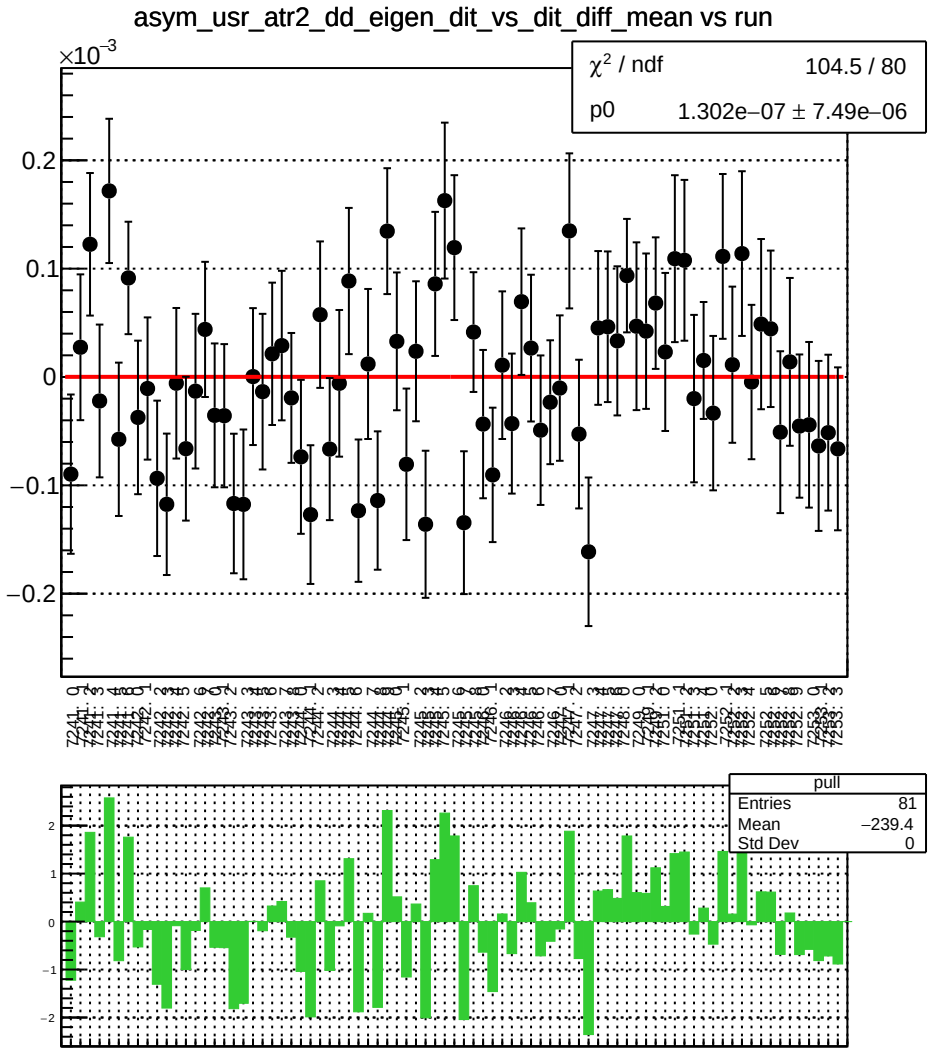

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.005e+05 / 80
p0 6.591e−11 ± 8.183e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

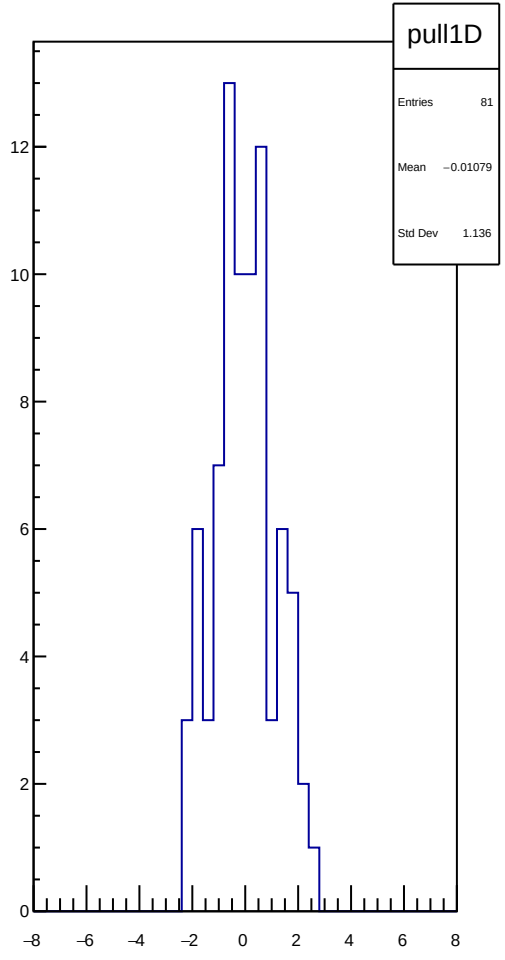

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 79.52 / 80
p0 0.01607 ± 0.1744
pull
Entries 81
Mean 128.7
Std Dev 0
pull1D
Entries 81
Mean −0.01998
Std Dev 0.9906

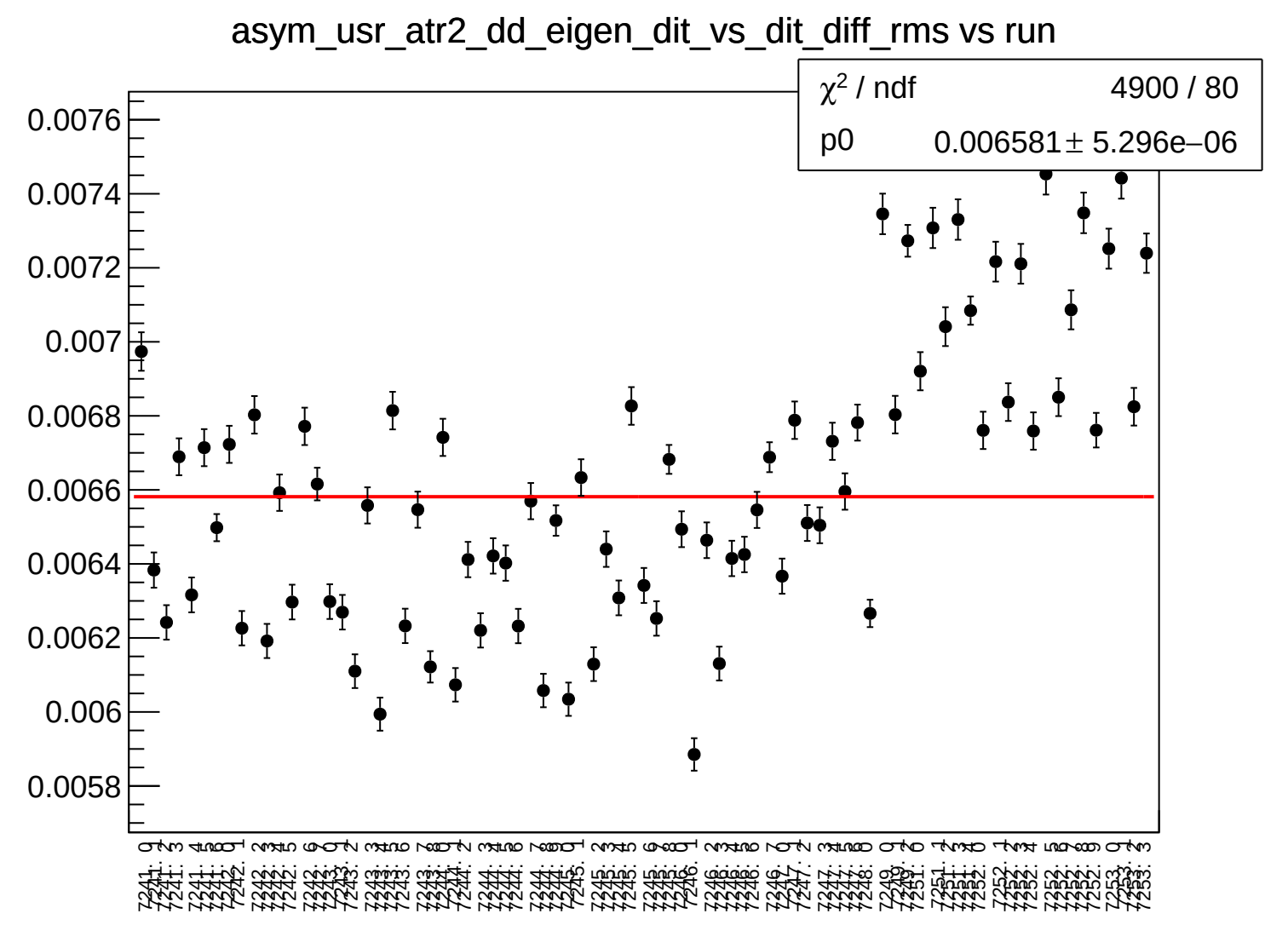

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.012e+04 / 80
p0 152 ± 0.1233
220
200
180
160
140
120

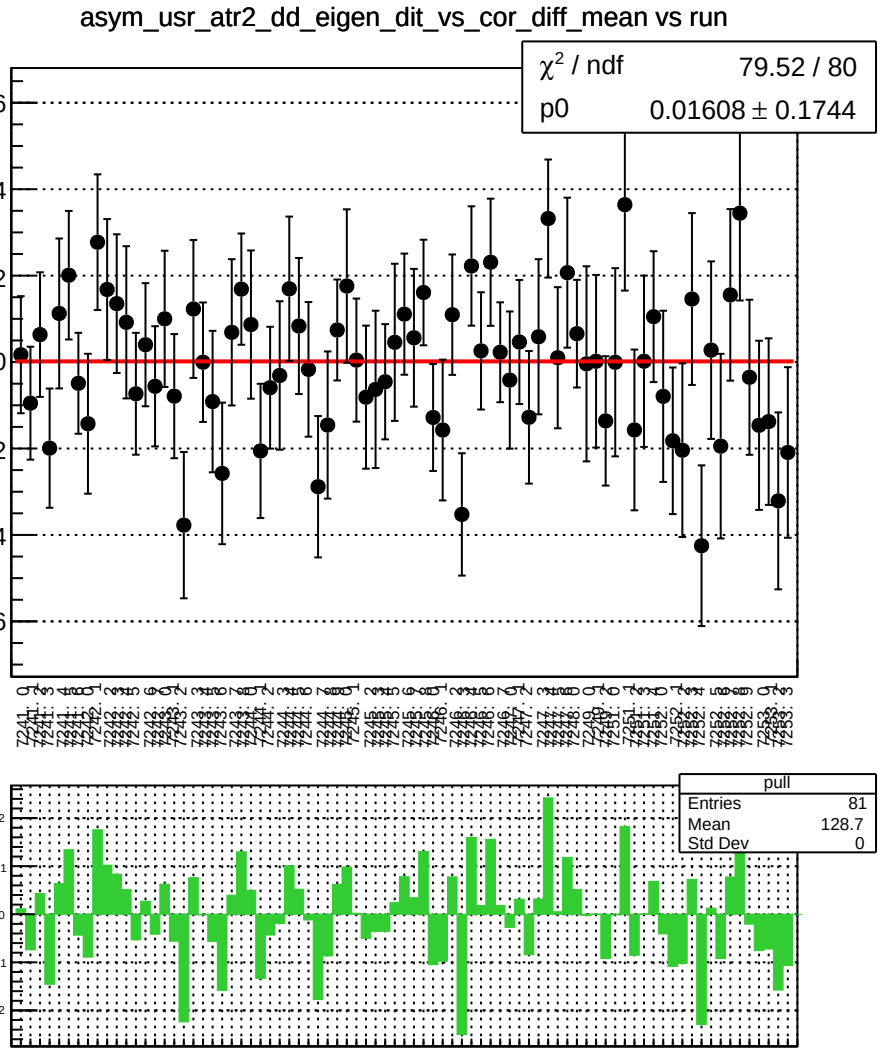

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.52 / 80
p0 0.01607 ± 0.1744
pull
Entries 81
Mean 128.7
Std Dev 0
pull1D
Entries 81
Mean −0.01998
Std Dev 0.9906

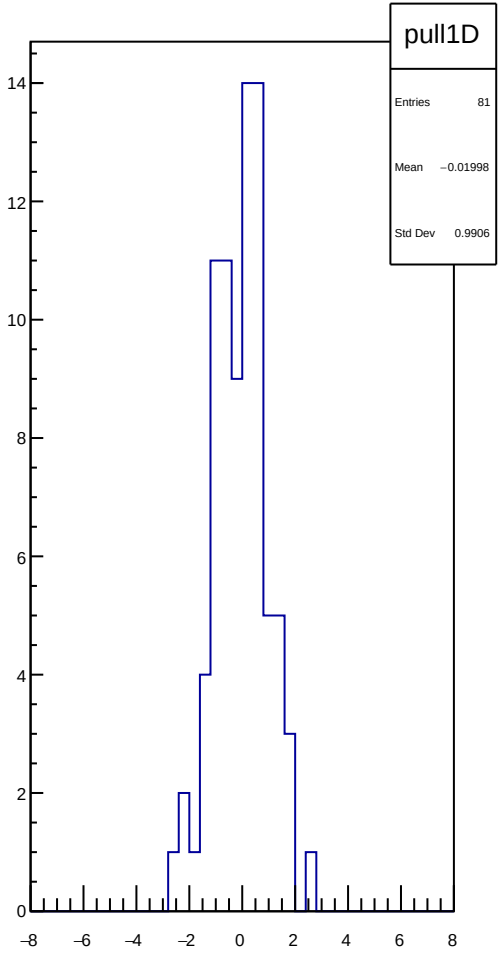

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.012e+04 / 80
p0 152 ± 0.1233
220
200
180
160
140
120

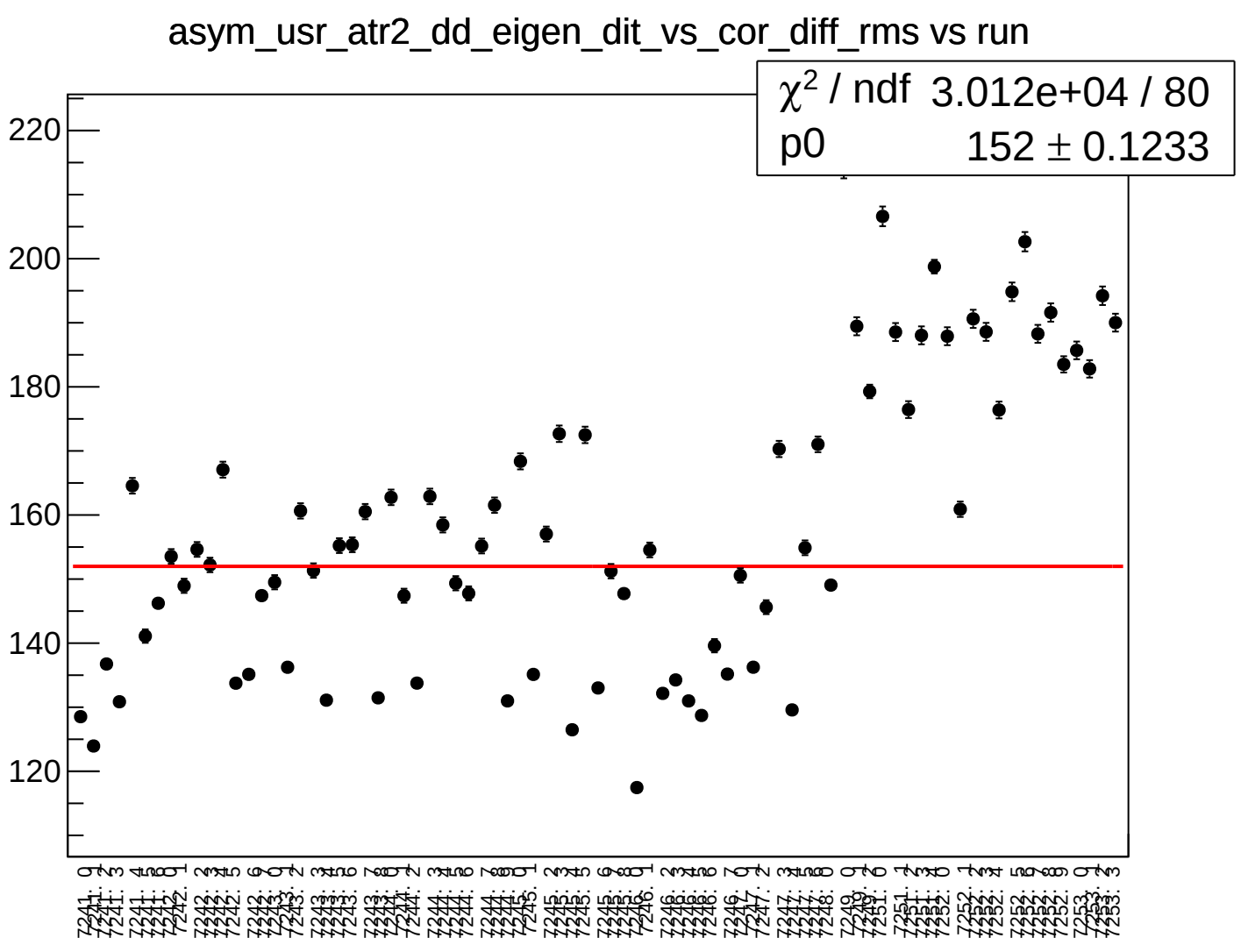

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 104.5 / 80
p0 1.302e−07 ± 7.49e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 81
Mean −239.4
Std Dev 0
2
1
0
−1
−2

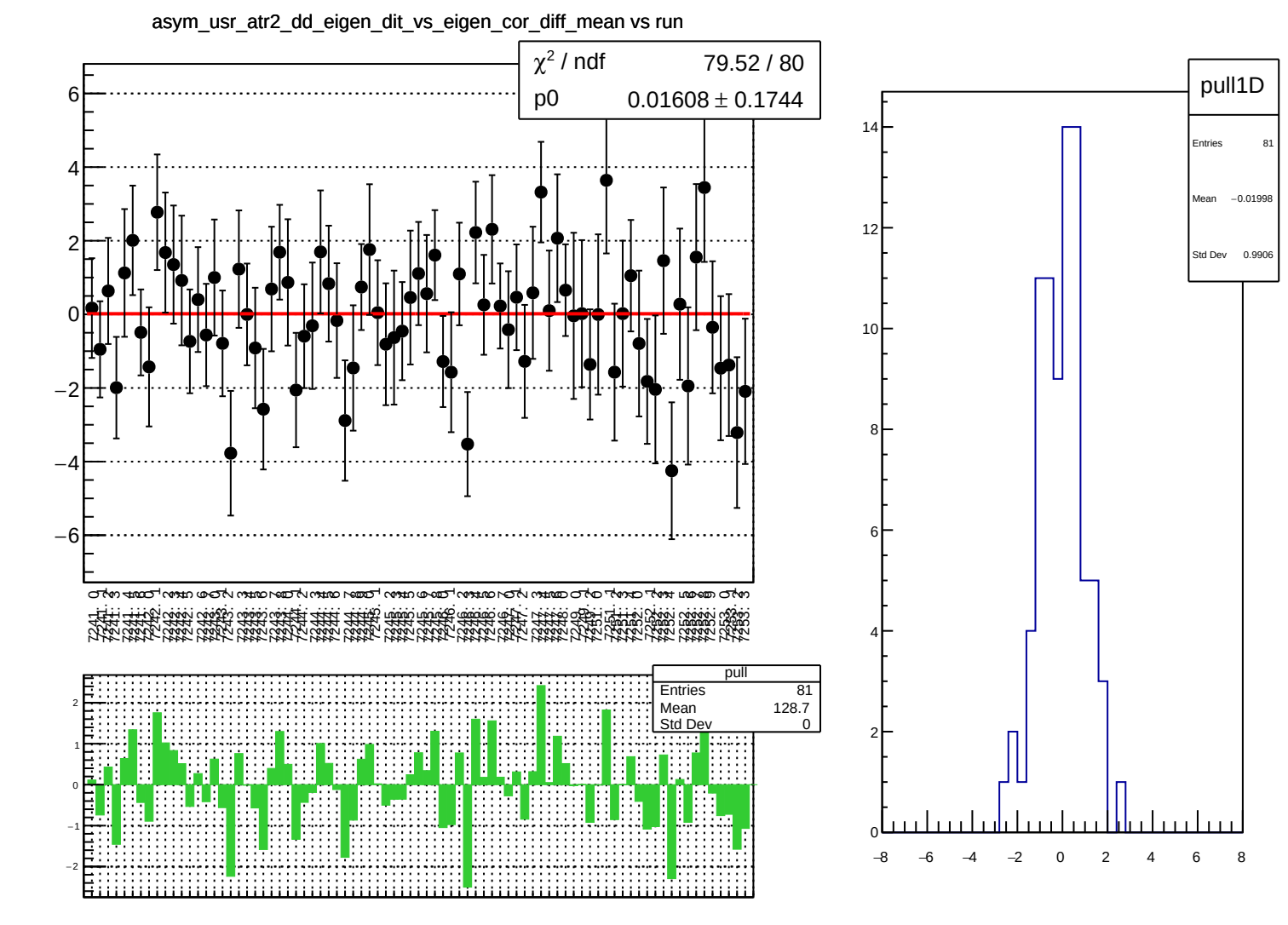

pull1D
Entries 81
Mean −0.01079
Std Dev 1.136
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

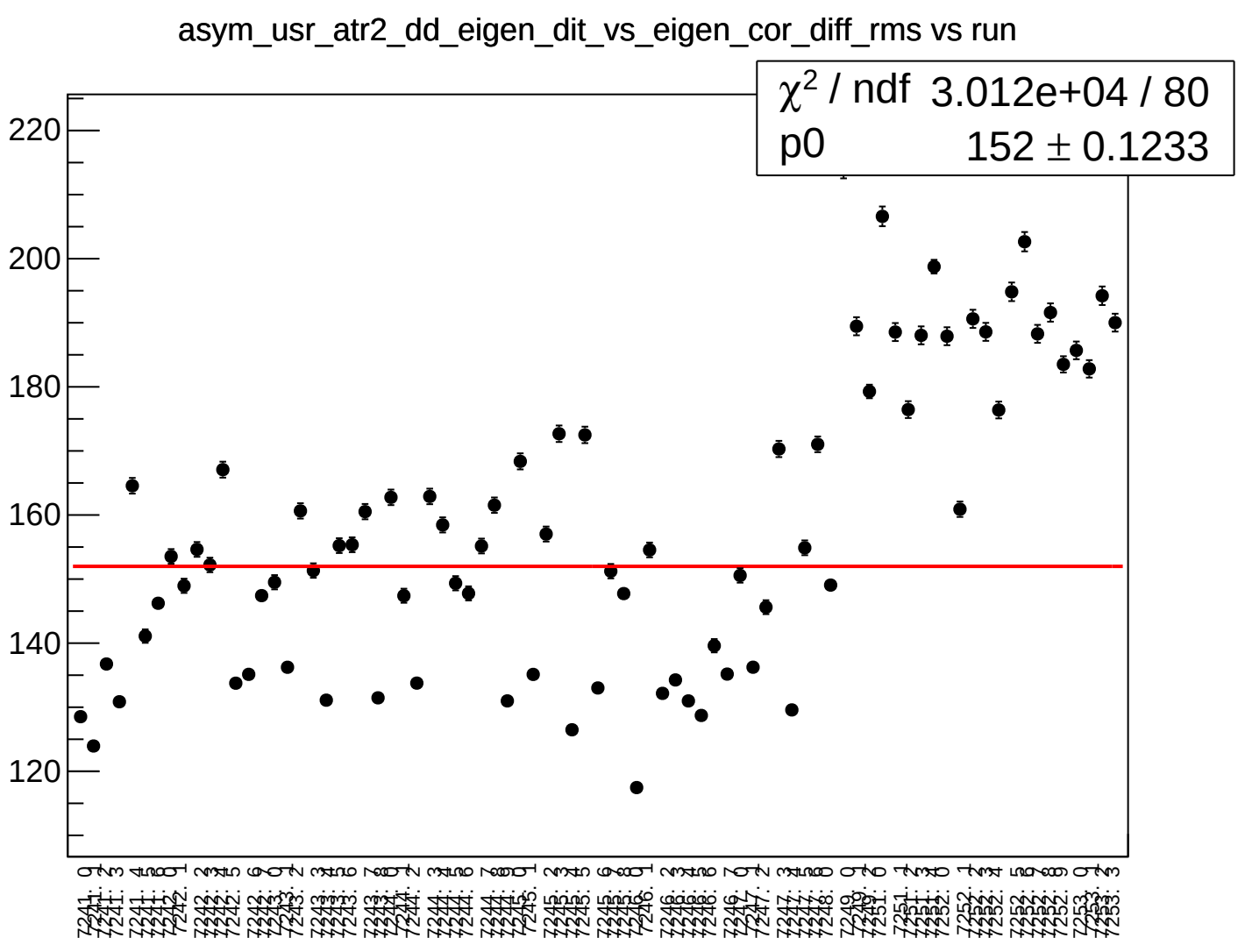

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4900 / 80
p0 0.006581 ± 5.296e−06
0.0076
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
0.006
0.0058

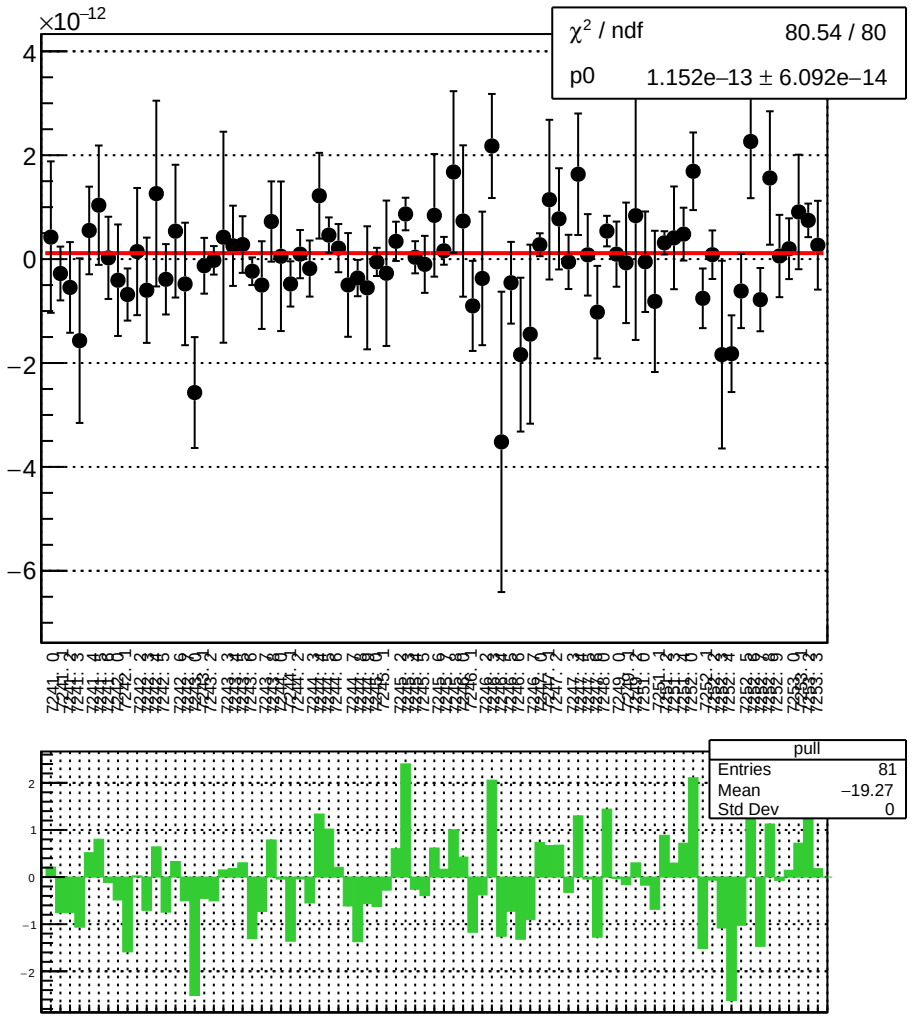

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.52 / 80
p0 0.01608 ± 0.1744
pull
Entries 81
Mean 128.7
Std Dev 0

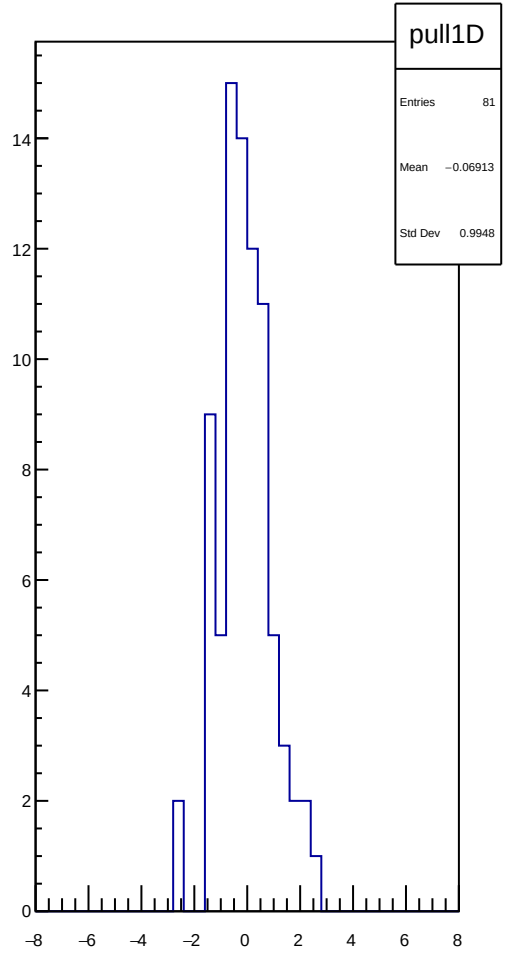

pull1D
Entries 81
Mean −0.01998
Std Dev 0.9906

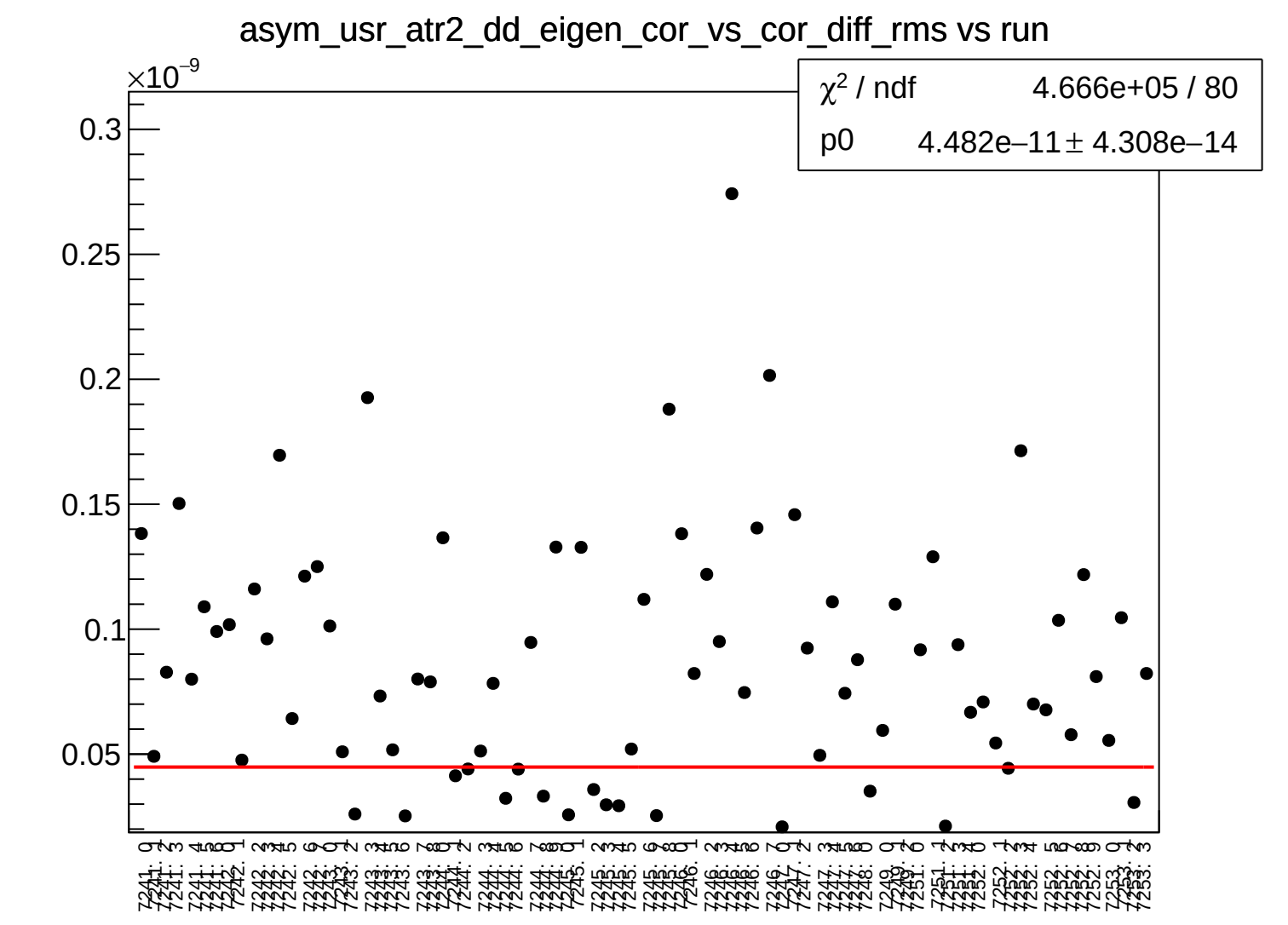

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.012e+04 / 80
p0 152 ± 0.1233
220
200
180
160
140
120

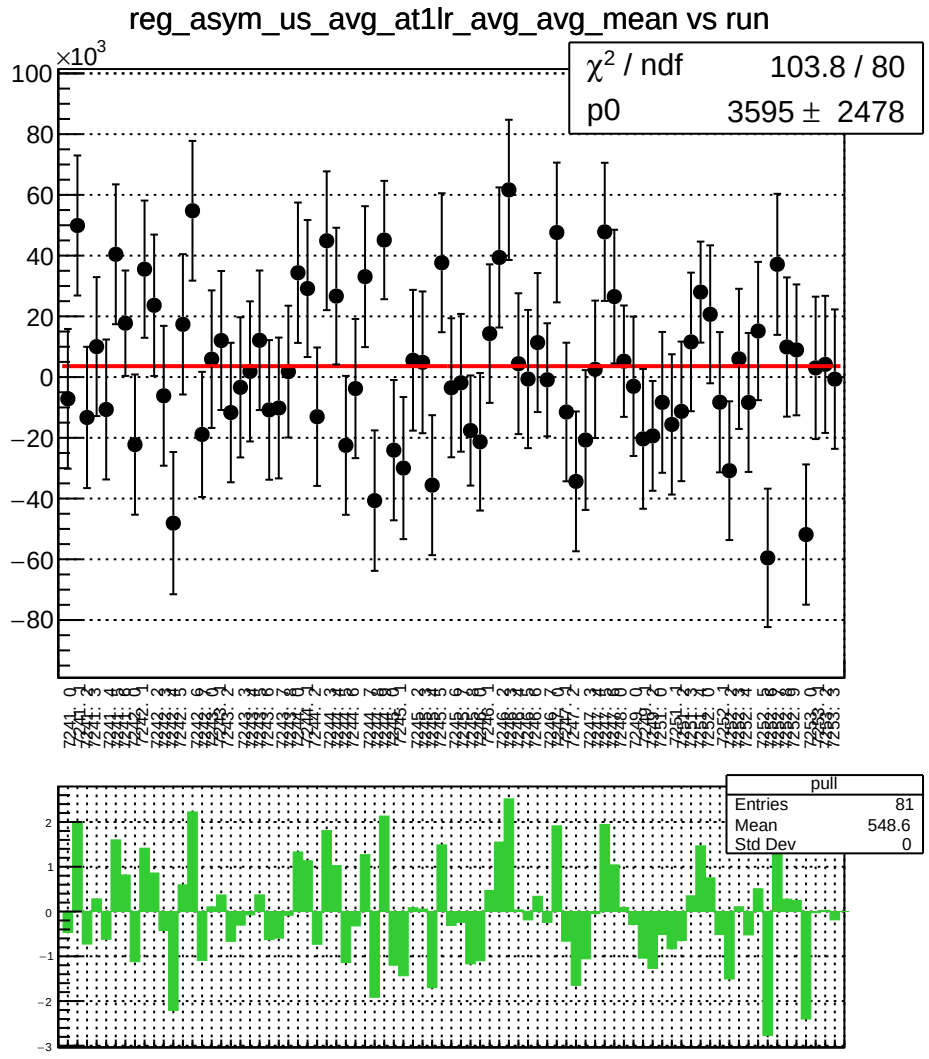

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.52 / 80
p0 0.01608 ± 0.1744
pull
Entries 81
Mean 128.7
Std Dev 0
pull1D
Entries 81
Mean −0.01998
Std Dev 0.9906

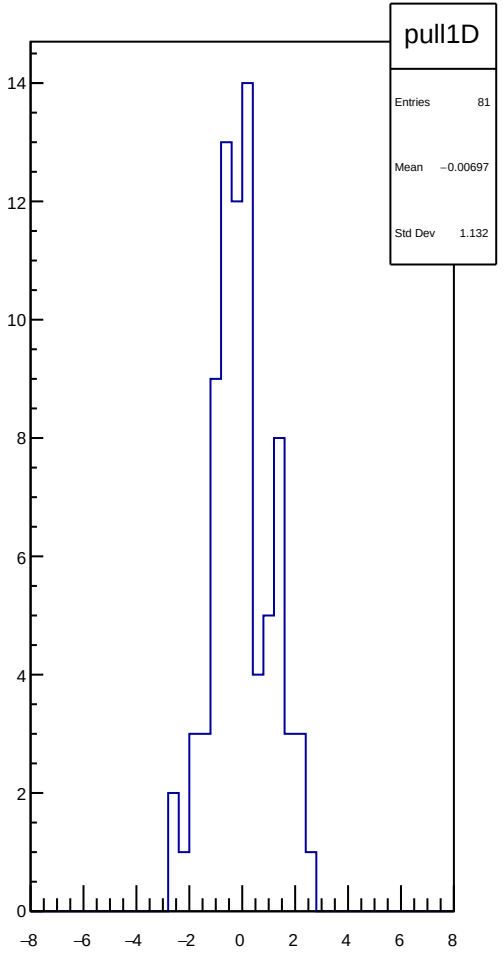

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.012e+04 / 80
p0 152 ± 0.1233
220
200
180
160
140
120

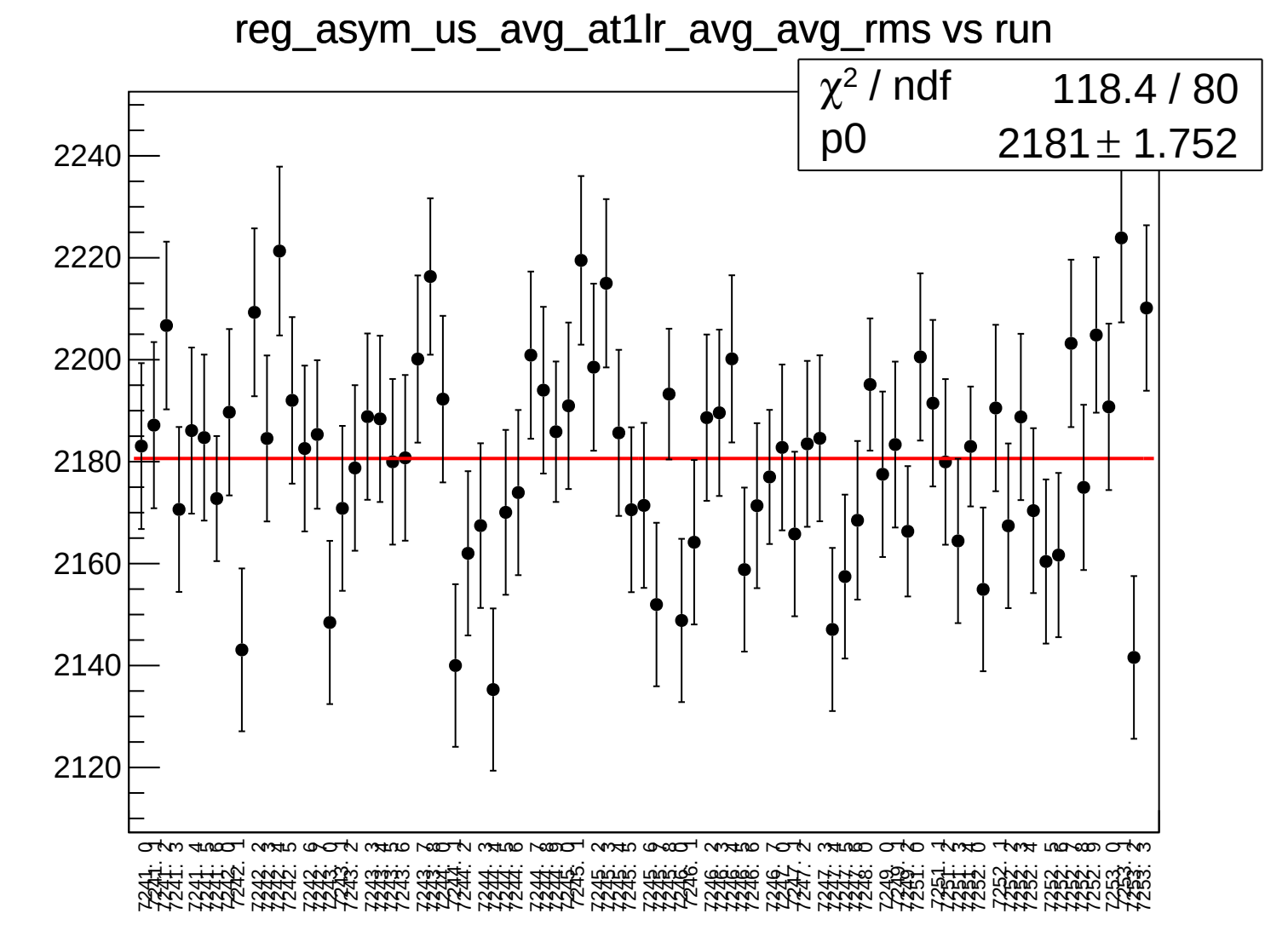

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.54 / 80
p0 1.152e−13 ± 6.092e−14
pull
Entries 81
Mean −19.27
Std Dev 0

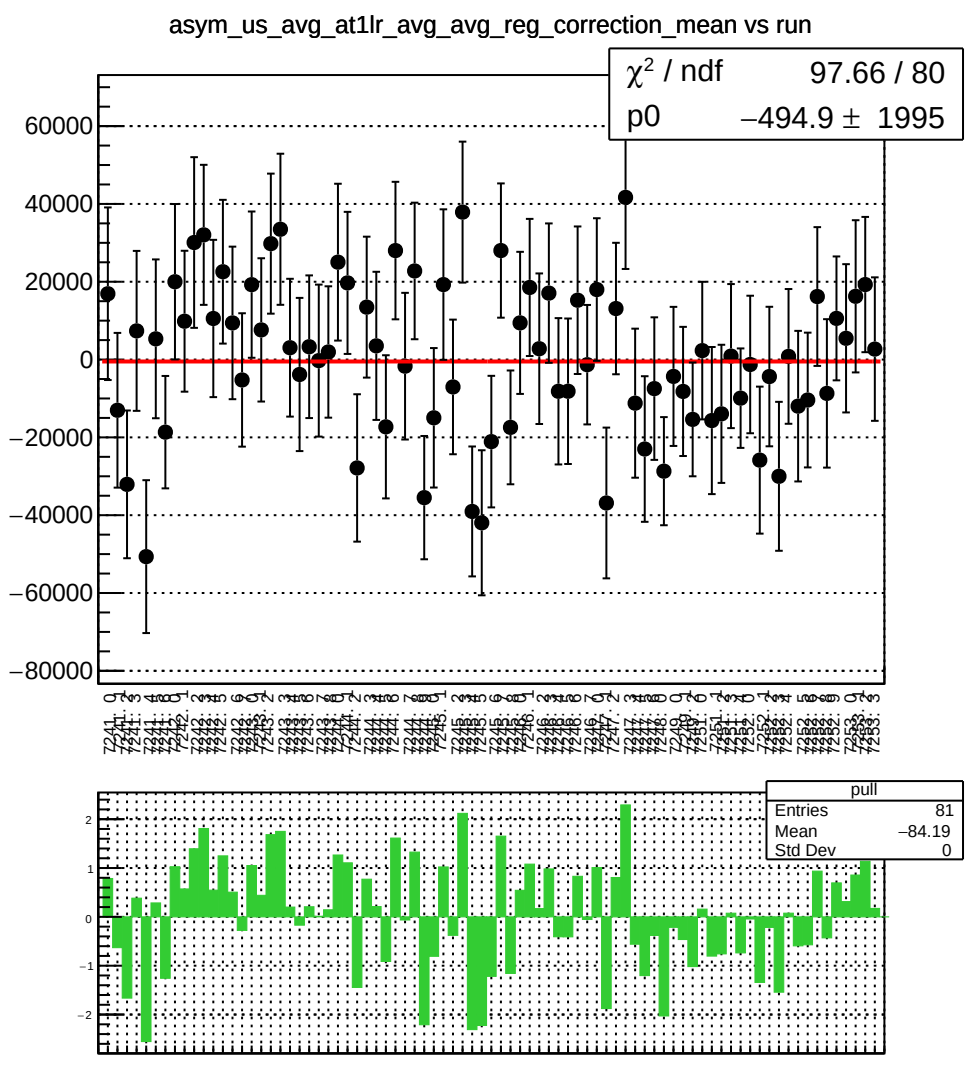

pull1D
Entries 81
Mean −0.06913
Std Dev 0.9948

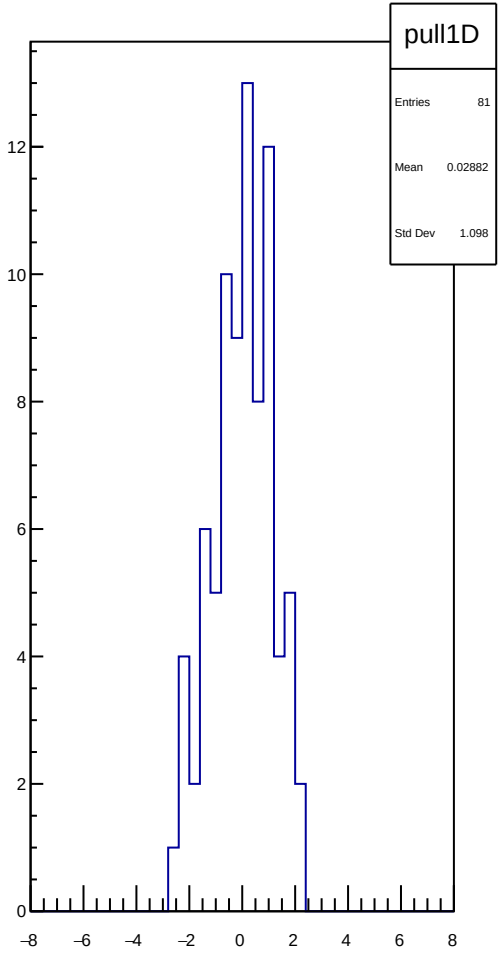

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.666e+05 / 80
p0 4.482e−11 ± 4.308e−14
0.3
0.25
0.2
0.15
0.1
0.05

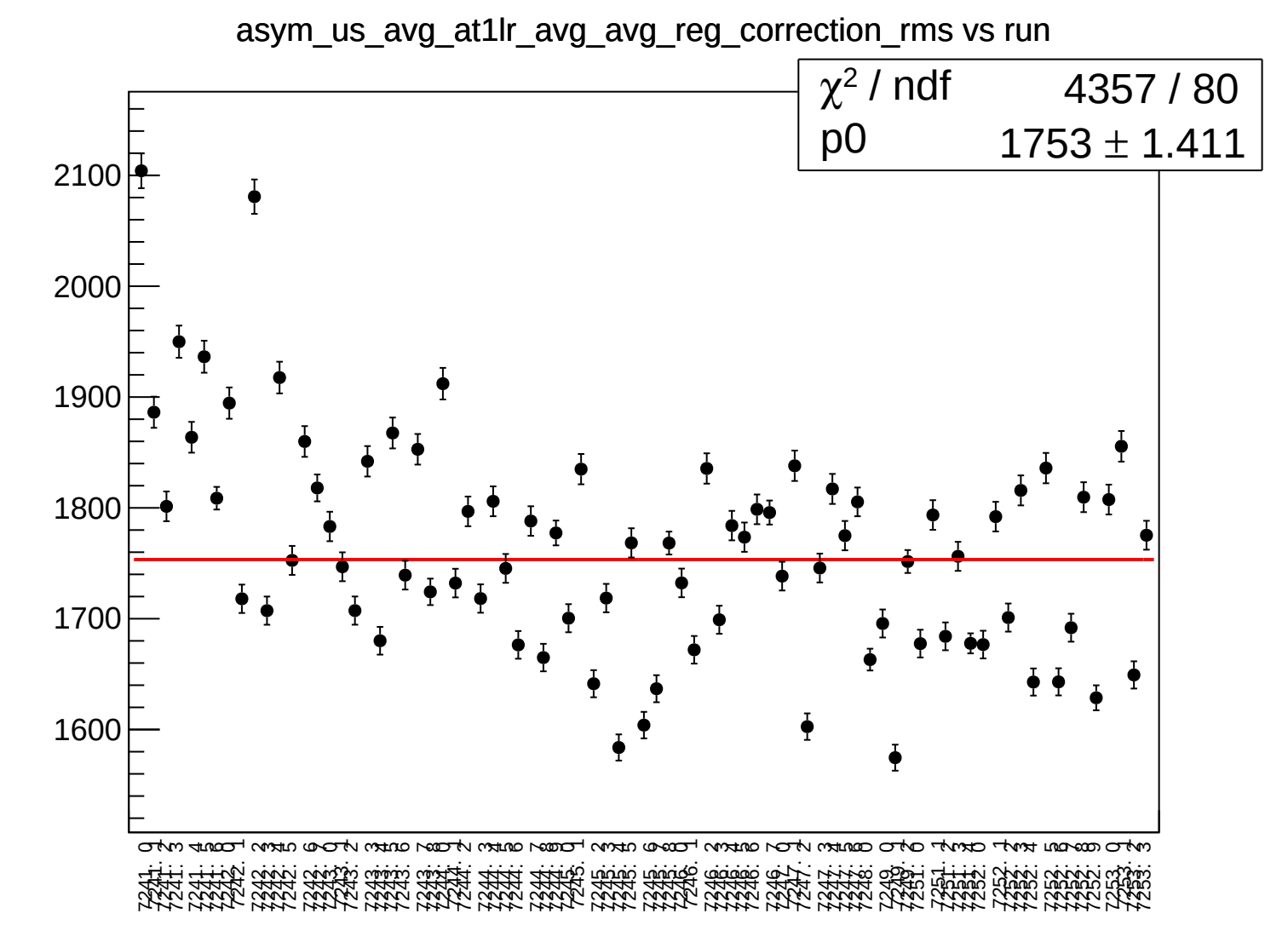

reg_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 103.8 / 80
p0 3595 ± 2478
pull
Entries 81
Mean 548.6
Std Dev 0

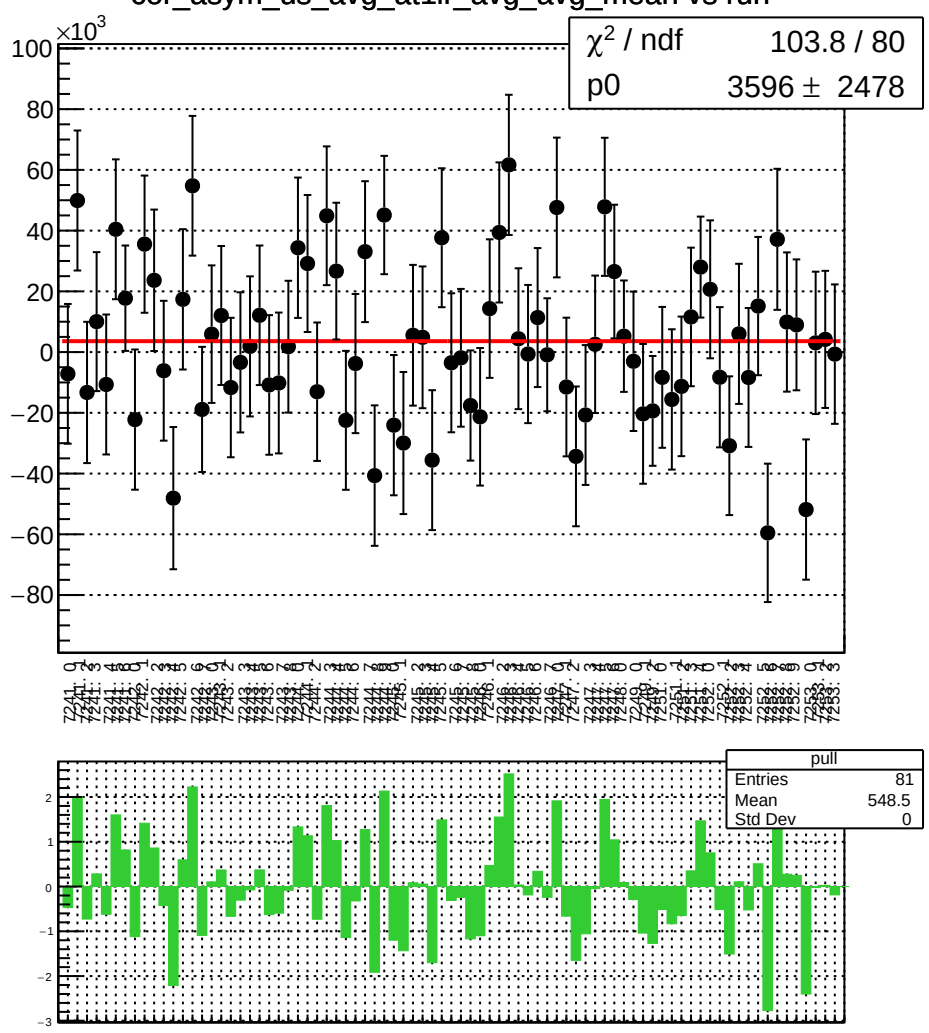

pull1D
Entries 81
Mean −0.00697
Std Dev 1.132

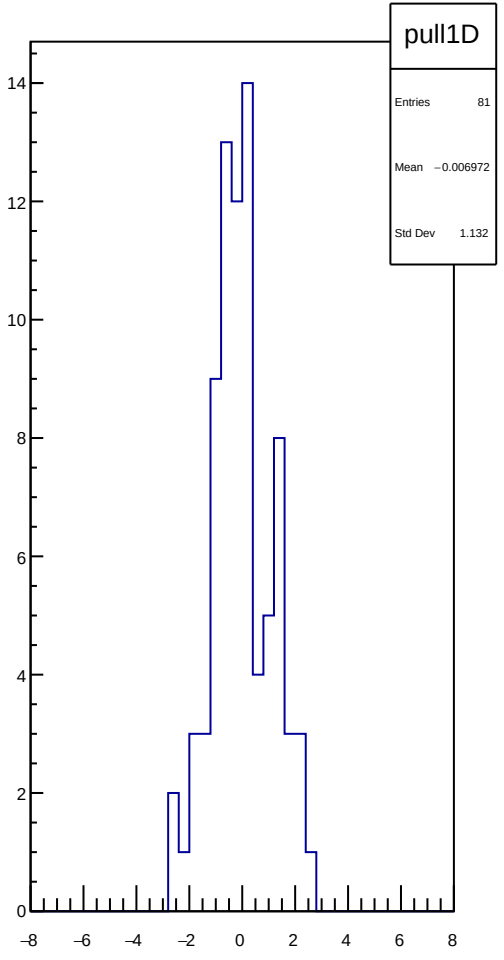

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 118.4 / 80
p0 2181 ± 1.752
2240
2220
2200
2180
2160
2140
2120

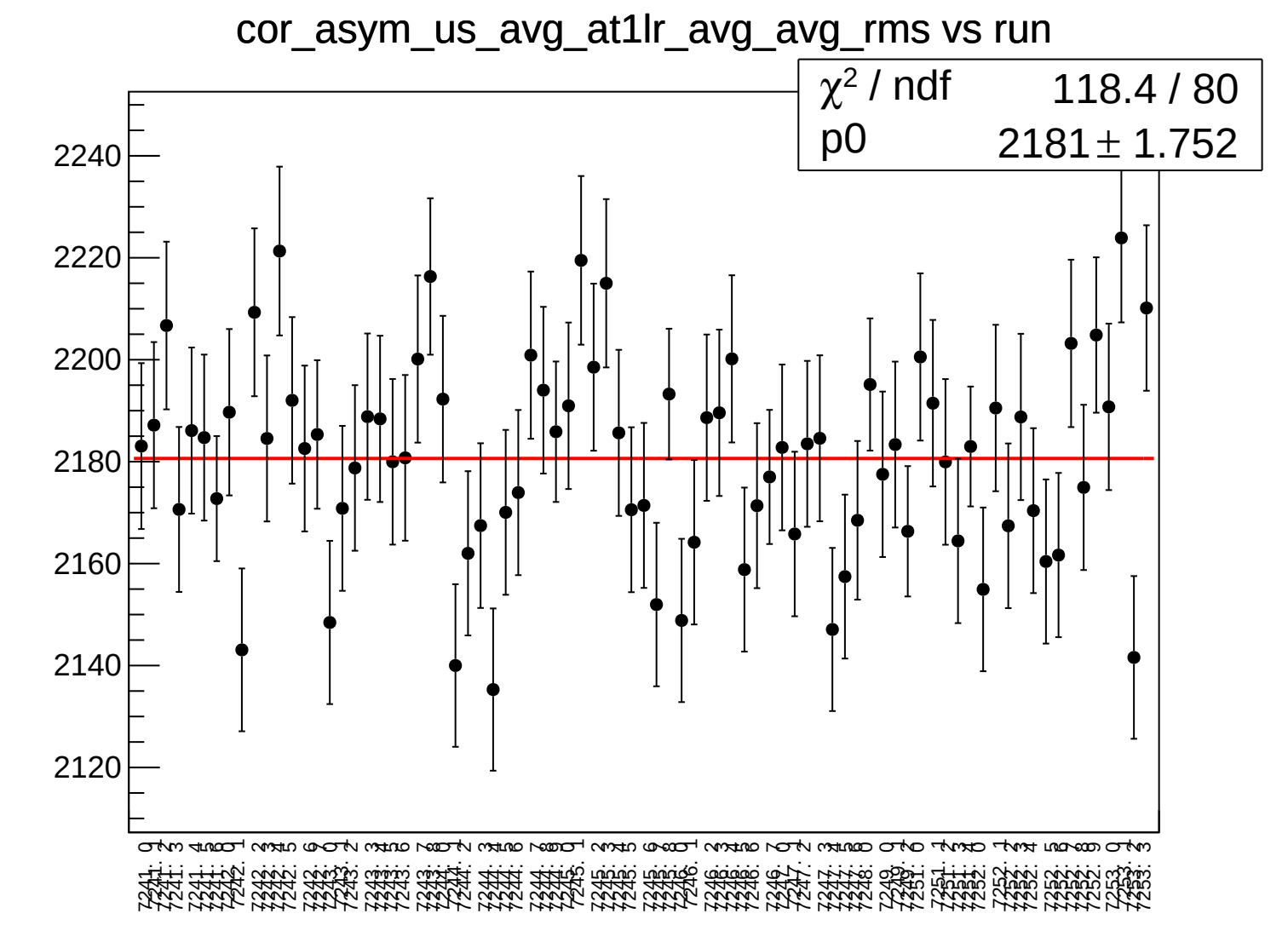

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
χ² / ndf 97.66 / 80
p0 −494.9 ± 1995
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 81
Mean −84.19
Std Dev 0
2
1
0
−1
−2

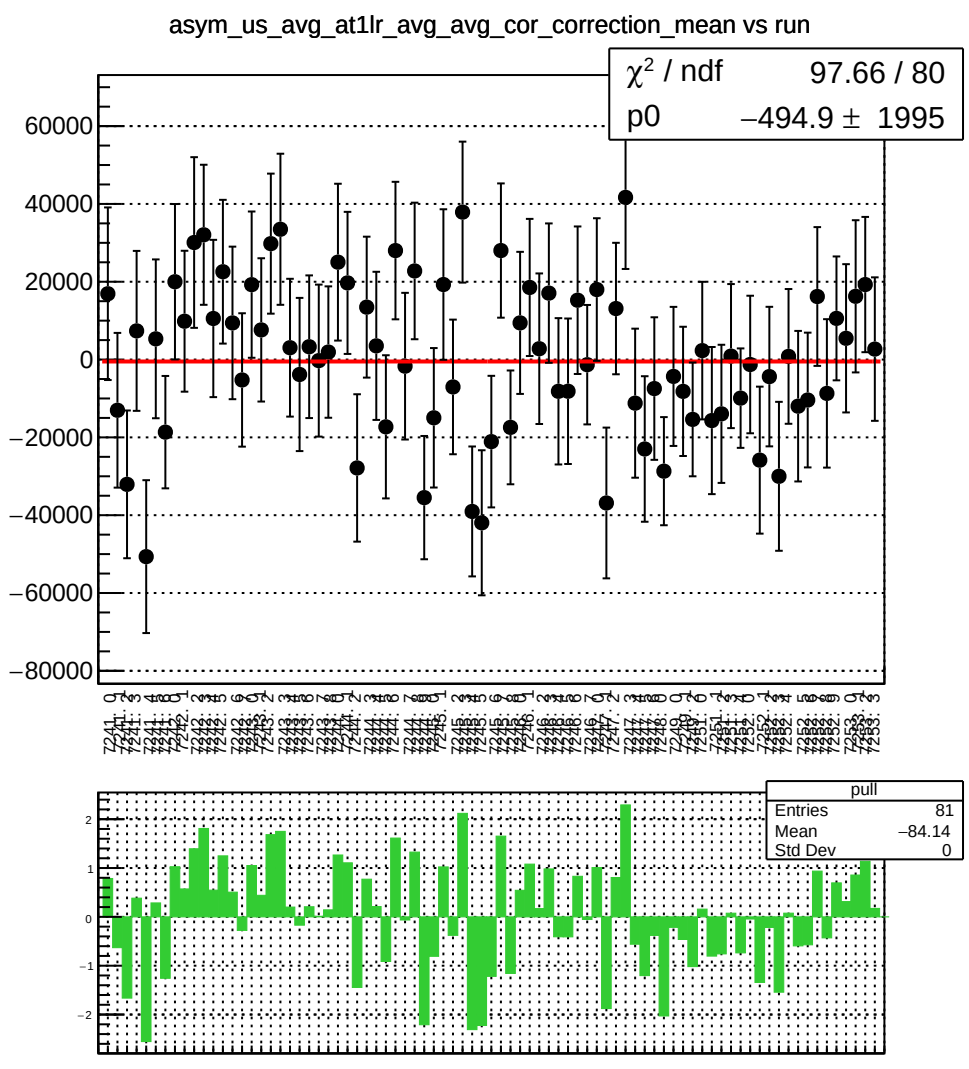

pull1D
Entries 81
Mean 0.02882
Std Dev 1.098
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

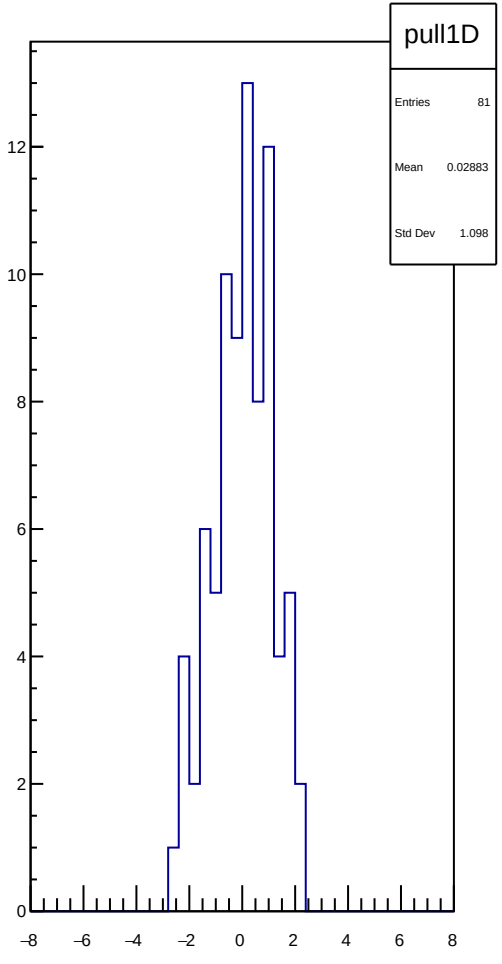

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 4357 / 80
p0 1753 ± 1.411
2100
2000
1900
1800
1700
1600

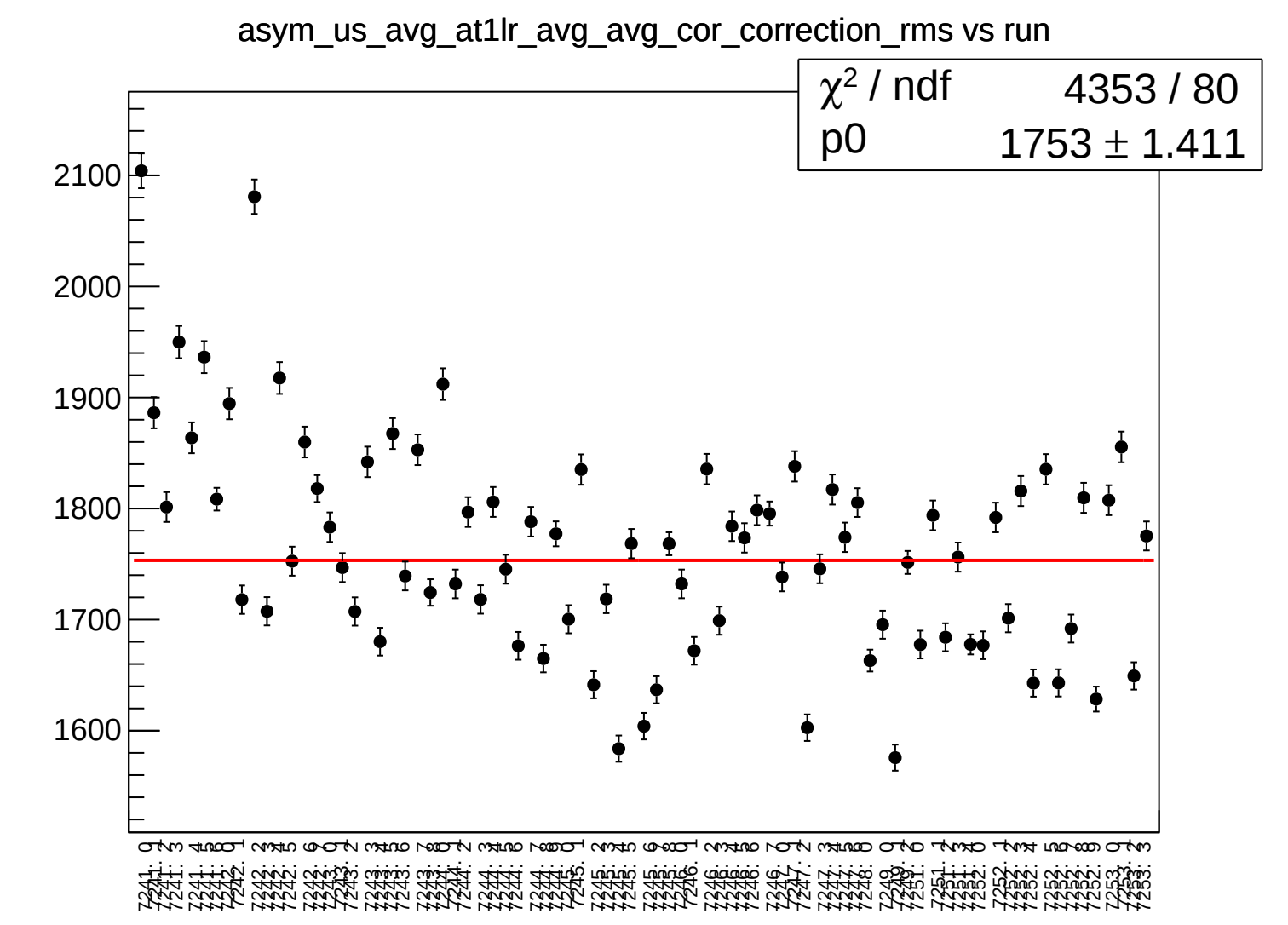

cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 103.8 / 80
p0 3596 ± 2478
pull
Entries 81
Mean 548.5
Std Dev 0

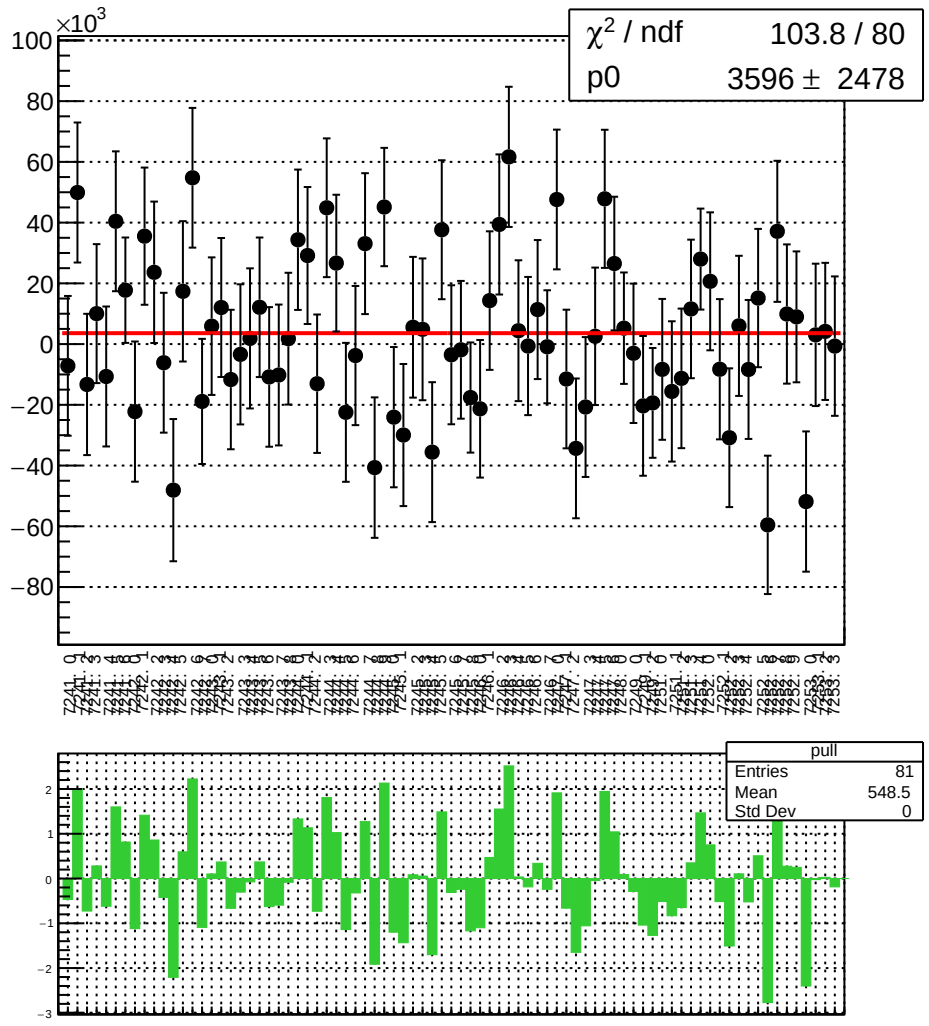

pull1D
Entries 81
Mean −0.006972
Std Dev 1.132

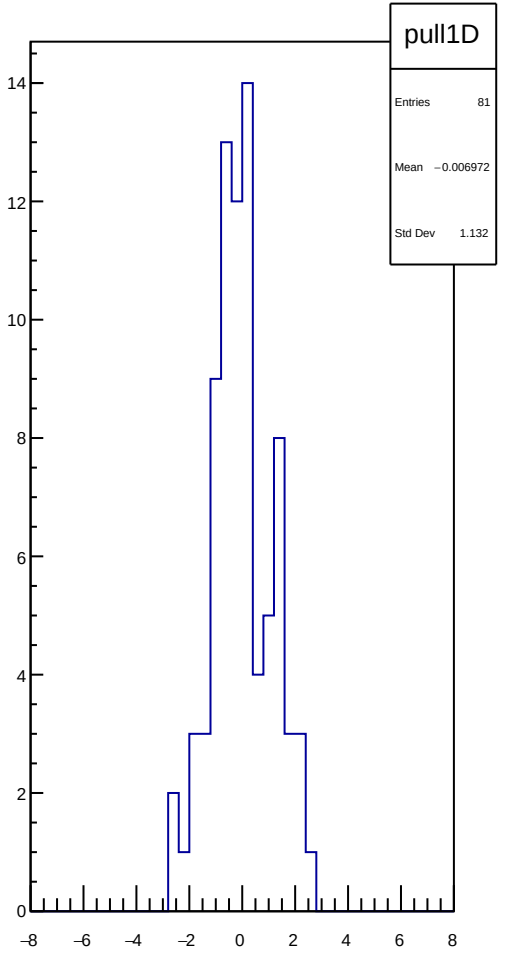

cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 118.4 / 80
p0 2181 ± 1.752
2240
2220
2200
2180
2160
2140
2120

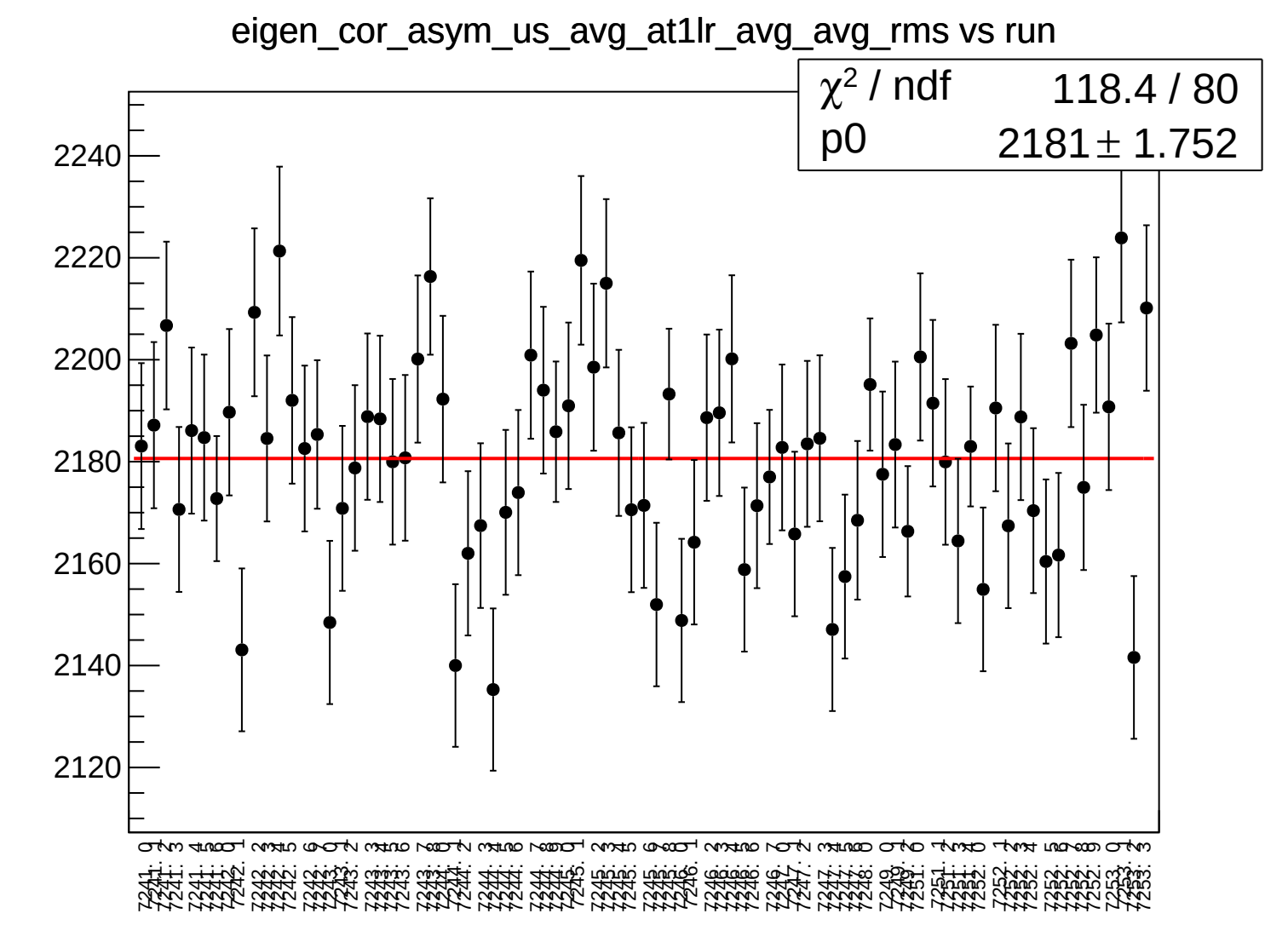

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
χ² / ndf 97.66 / 80
p0 −494.9 ± 1995
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 81
Mean −84.14
Std Dev 0
2
1
0
−1
−2

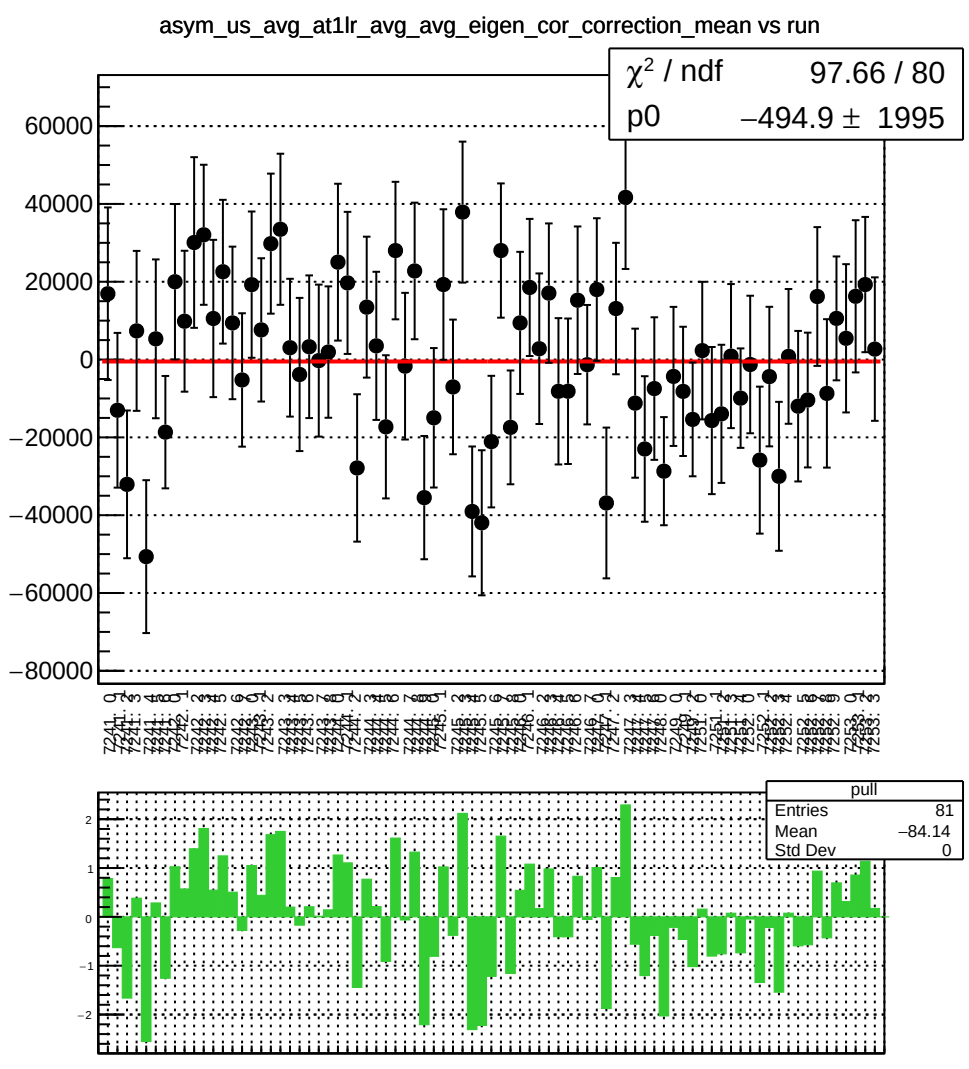

pull1D
Entries 81
Mean 0.02883
Std Dev 1.098
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

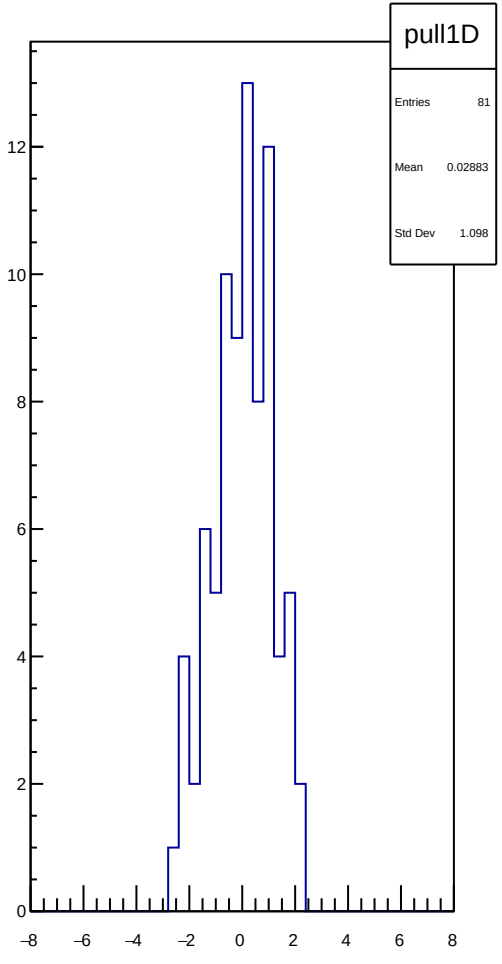

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 4353 / 80
p0 1753 ± 1.411
2100
2000
1900
1800
1700
1600

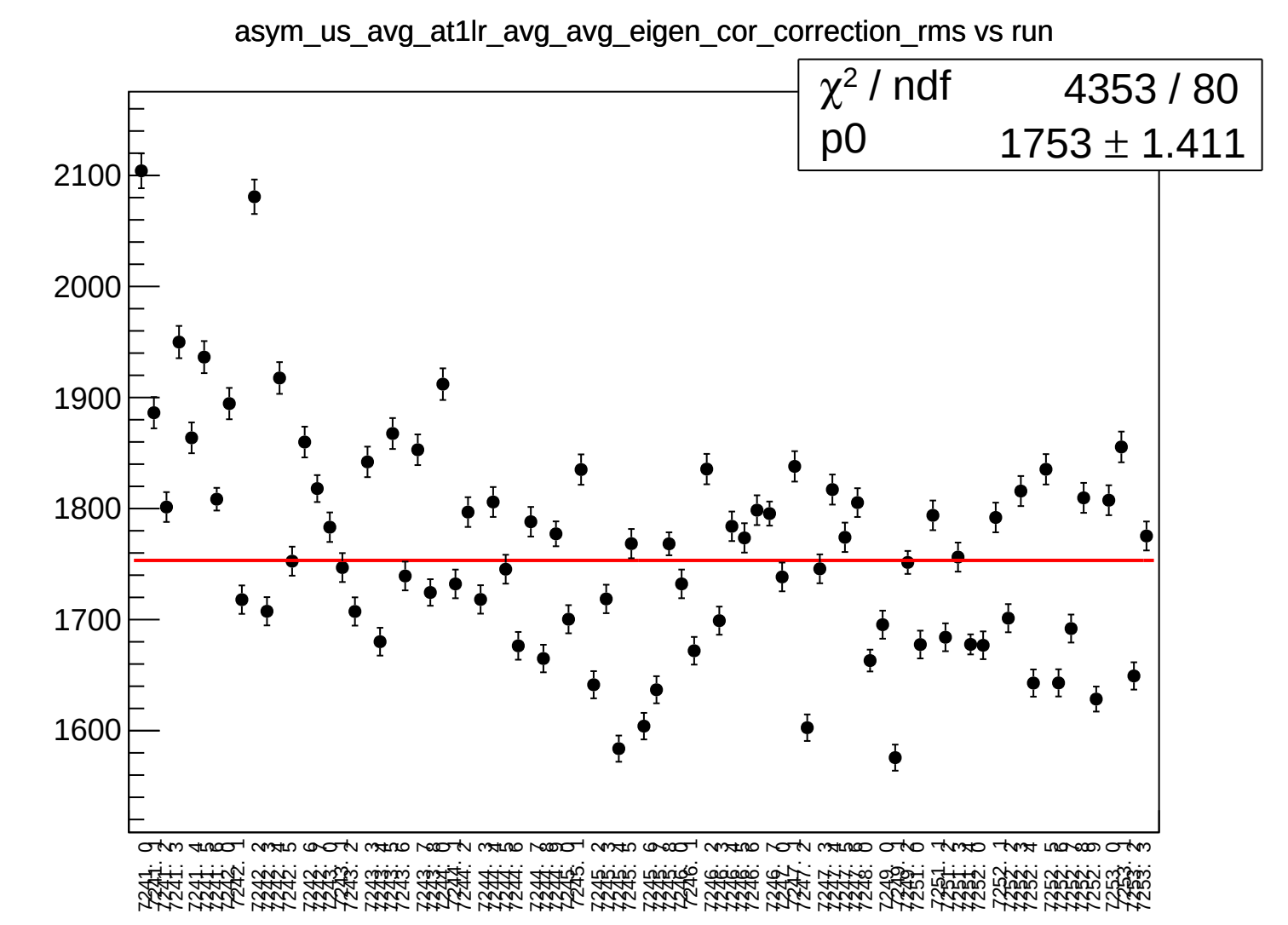

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 103.8 / 80
p0 3596 ± 2478
pull
Entries 81
Mean 548.5
Std Dev 0

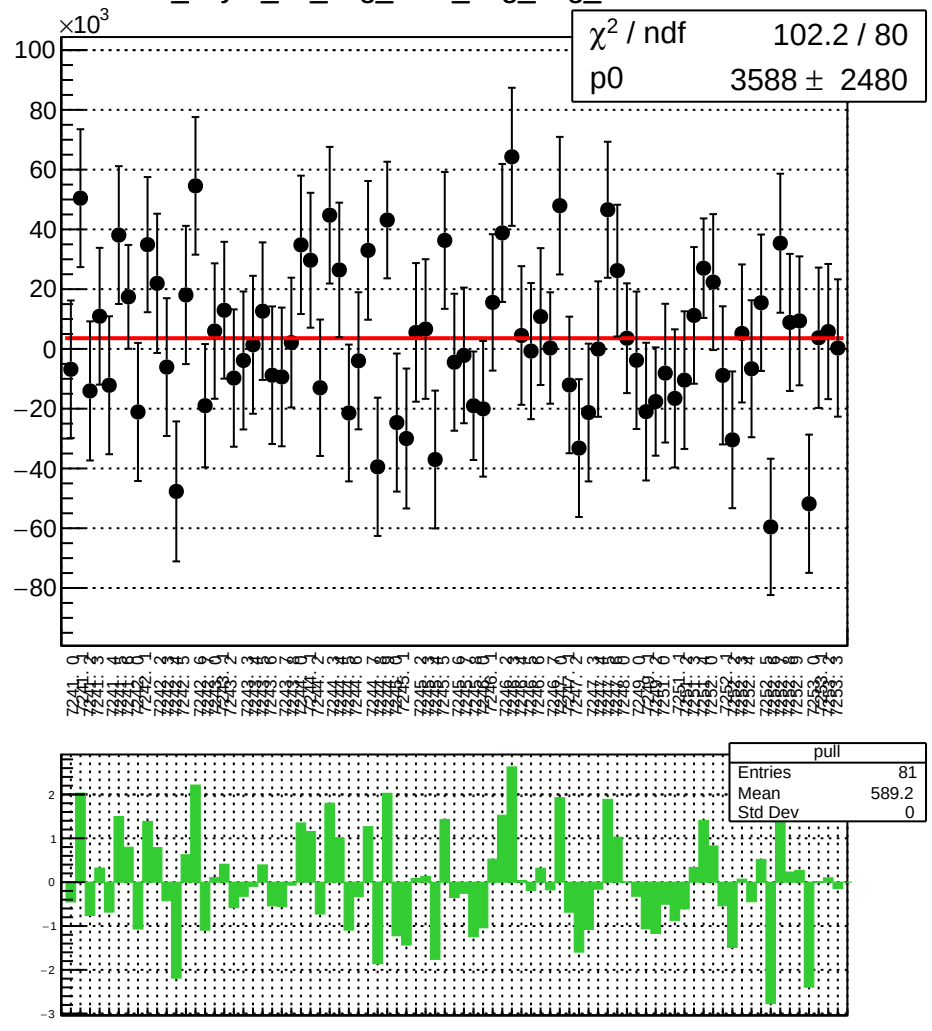

pull1D
Entries 81
Mean −0.006972
Std Dev 1.132

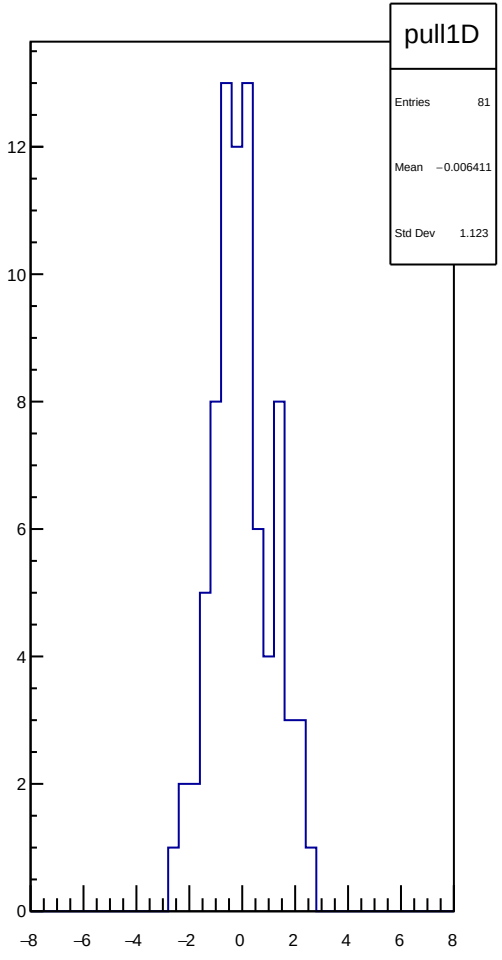

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 118.4 / 80
p0 2181 ± 1.752
2240
2220
2200
2180
2160
2140
2120

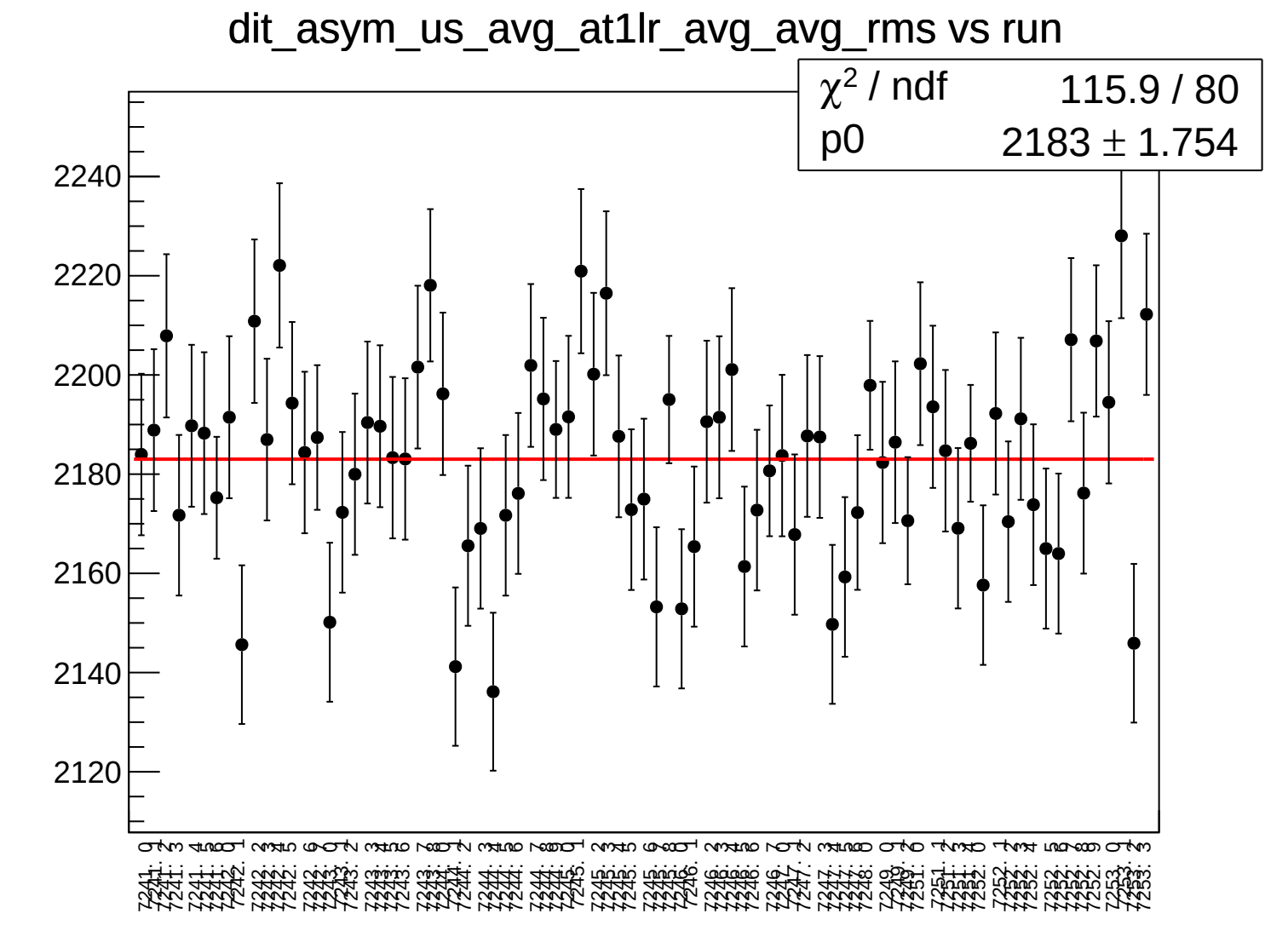

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
χ² / ndf 97.66 / 80
p0 −494.9 ± 1995
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 81
Mean −84.14
Std Dev 0
2
1
0
−1
−2

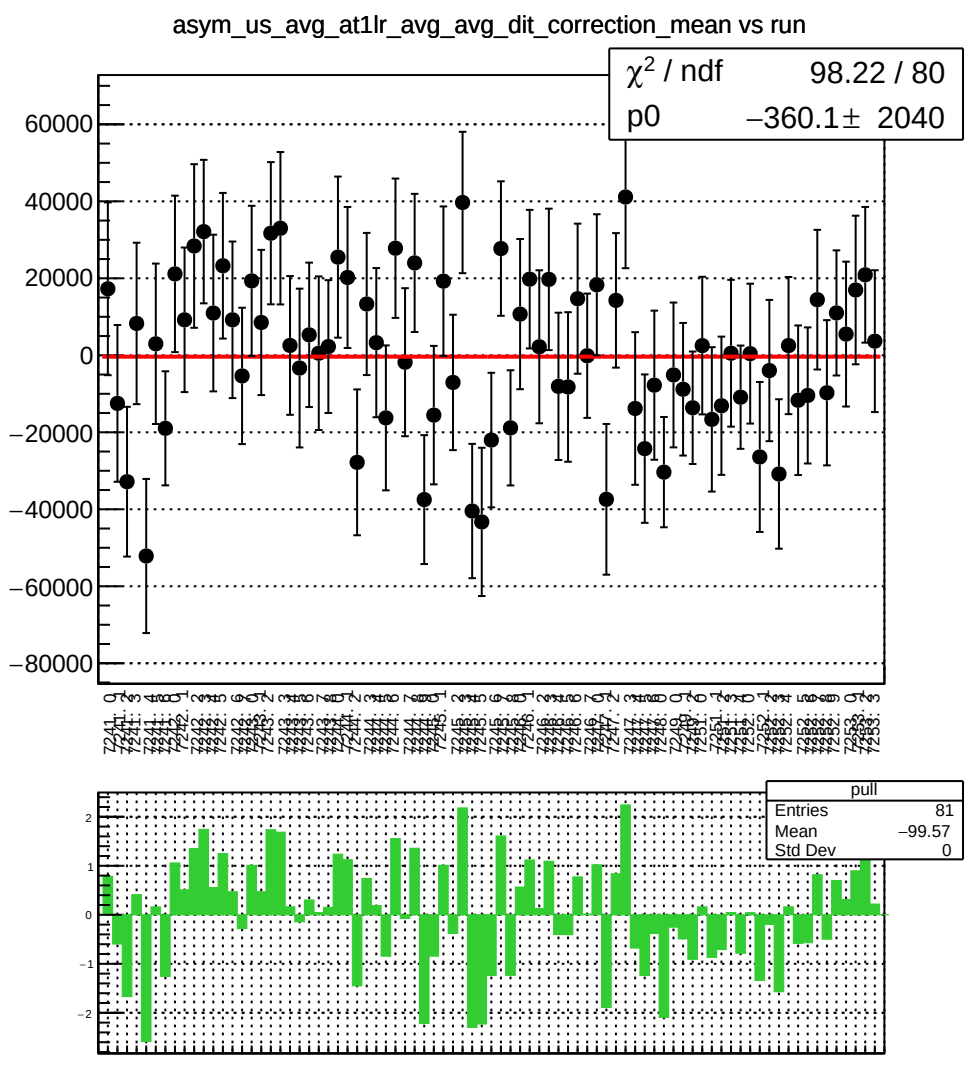

pull1D
Entries 81
Mean 0.02883
Std Dev 1.098
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

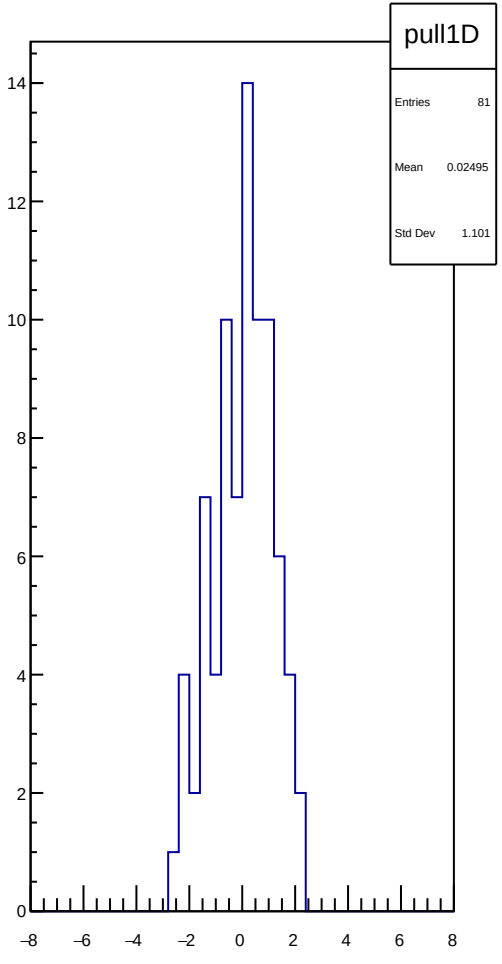

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 4353 / 80
p0 1753 ± 1.411
2100
2000
1900
1800
1700
1600

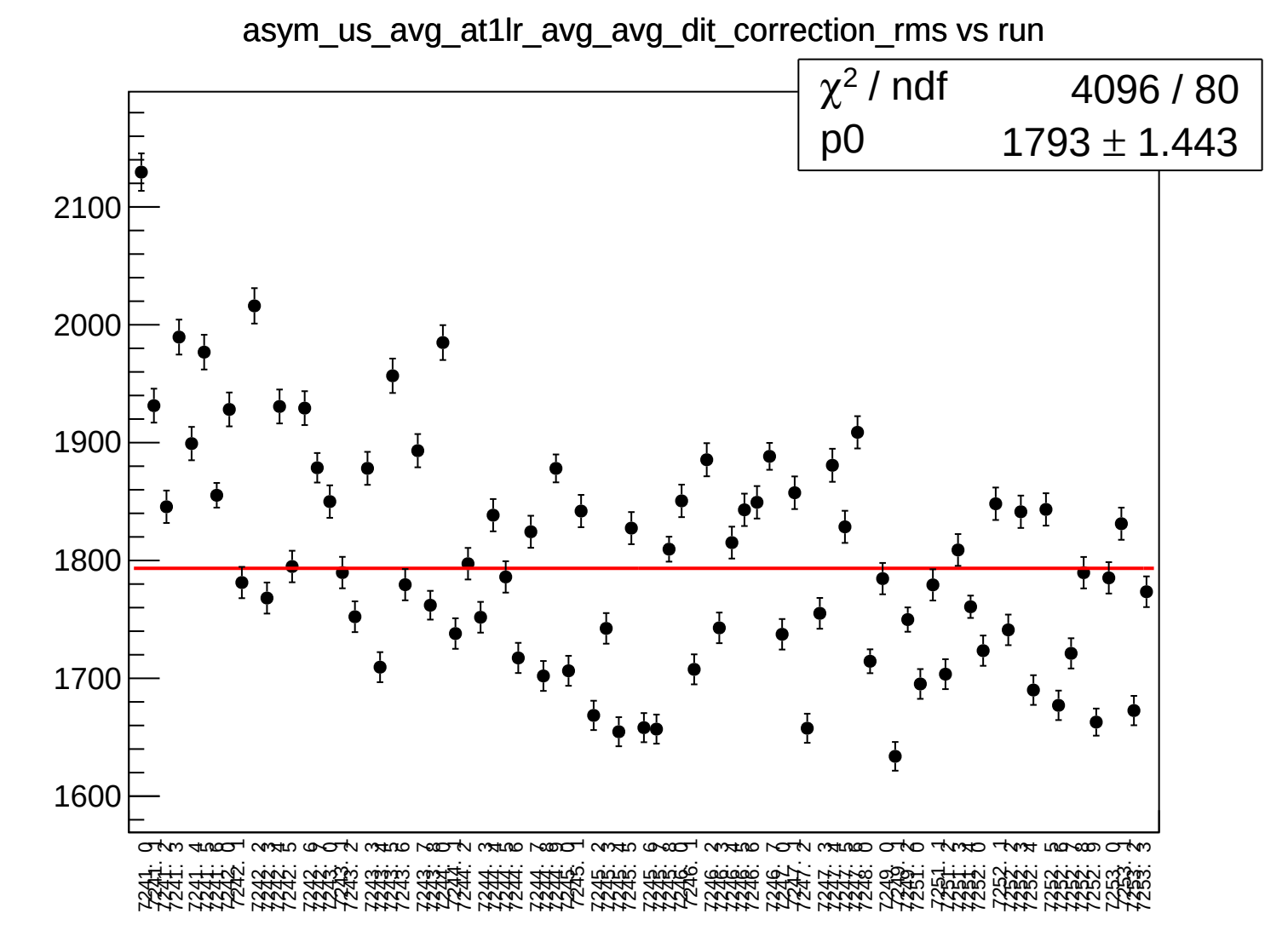

dit_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 102.2 / 80
p0 3588 ± 2480
pull
Entries 81
Mean 589.2
Std Dev 0

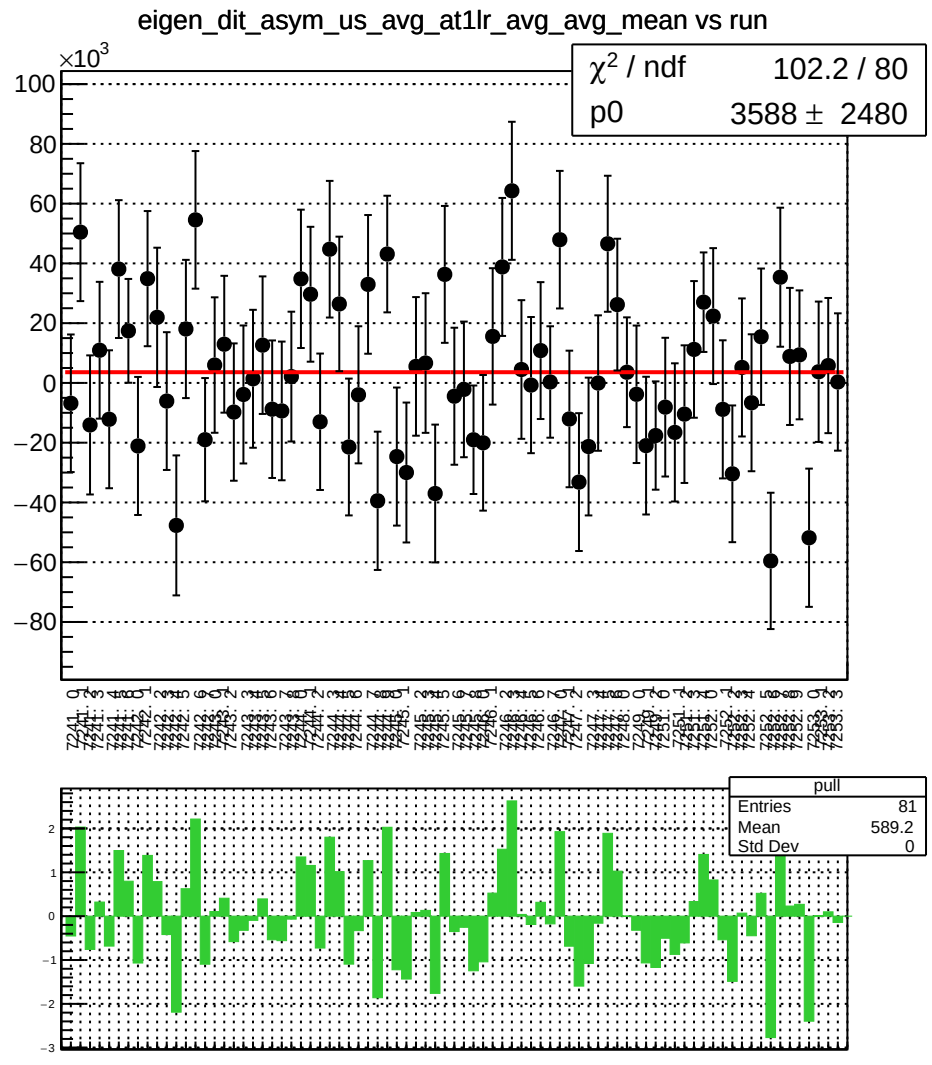

pull1D
Entries 81
Mean −0.006411
Std Dev 1.123

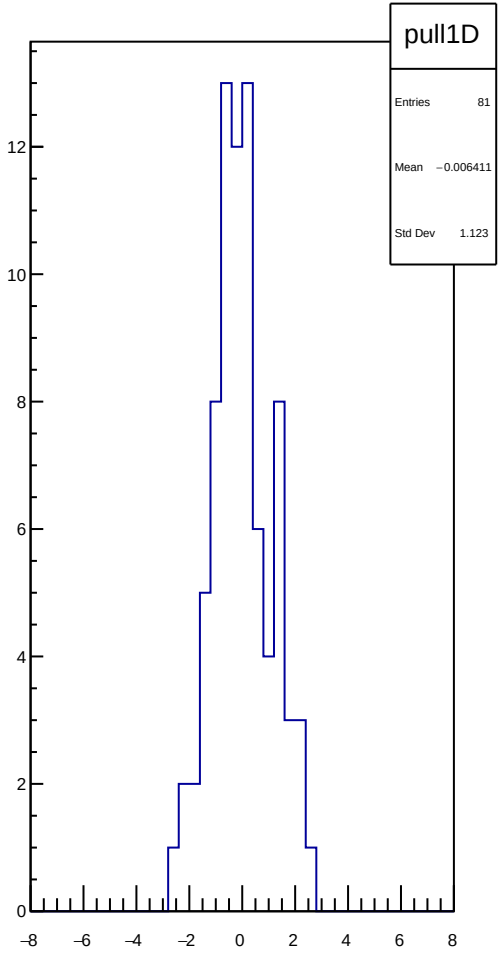

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 115.9 / 80
p0 2183 ± 1.754
2240
2220
2200
2180
2160
2140
2120

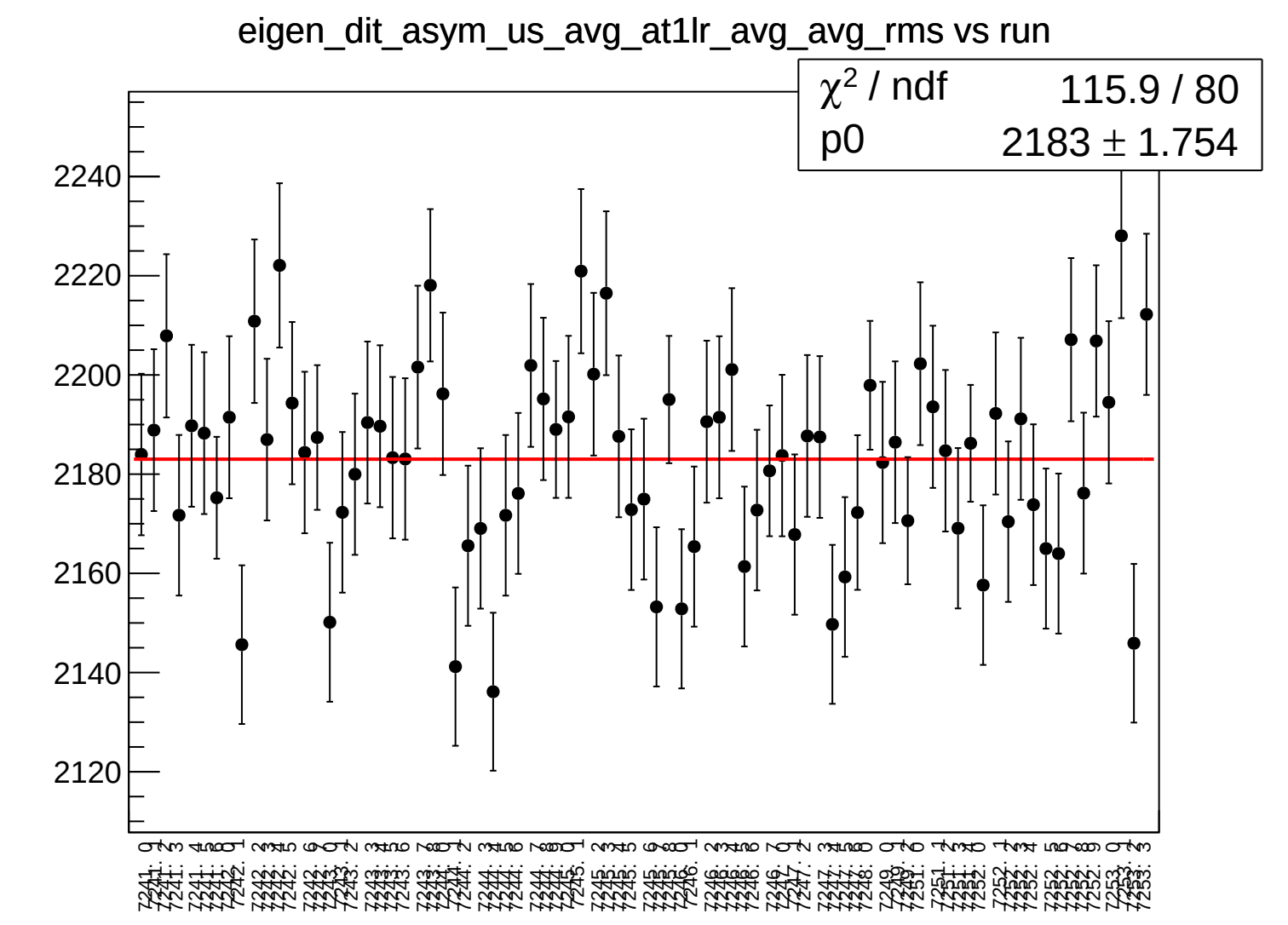

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
χ² / ndf 98.22 / 80
p0 −360.1± 2040
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 81
Mean −99.57
Std Dev 0
2
1
0
−1
−2

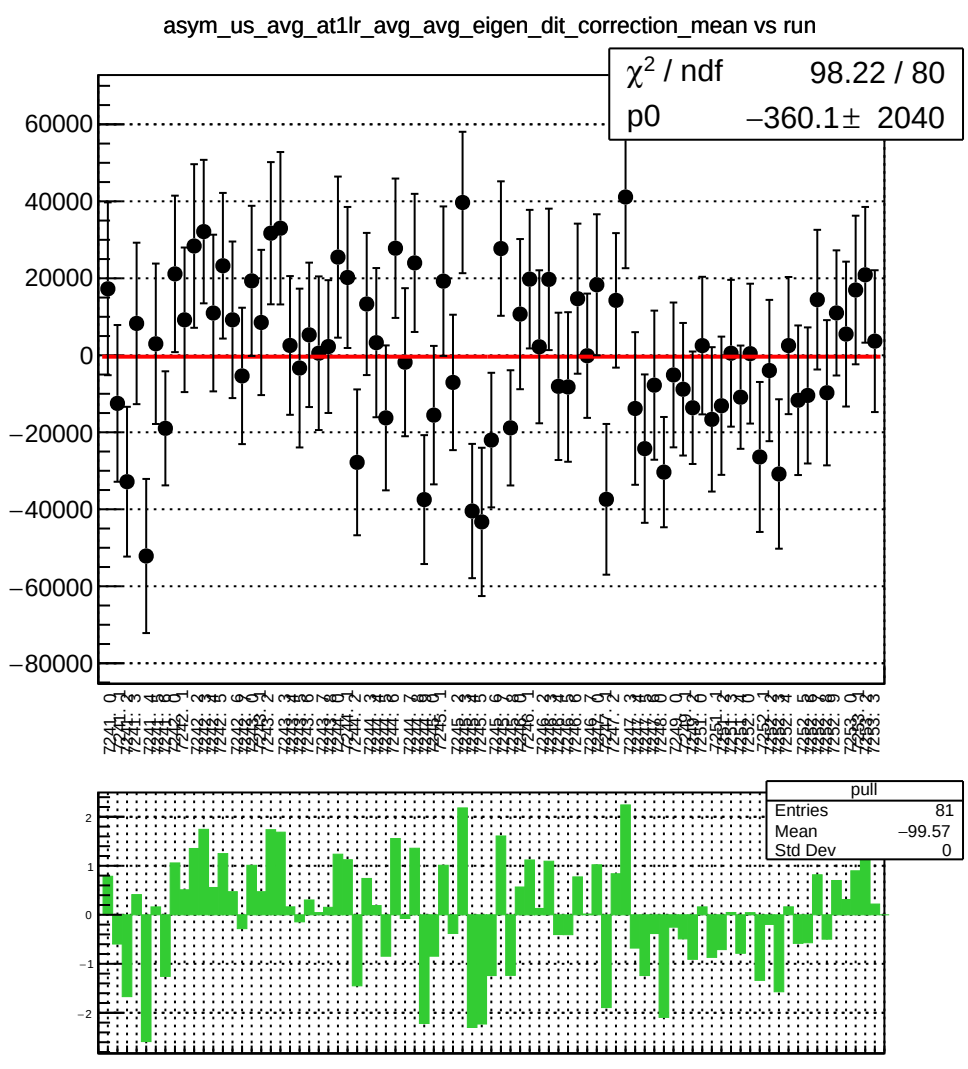

pull1D
Entries 81
Mean 0.02495
Std Dev 1.101
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

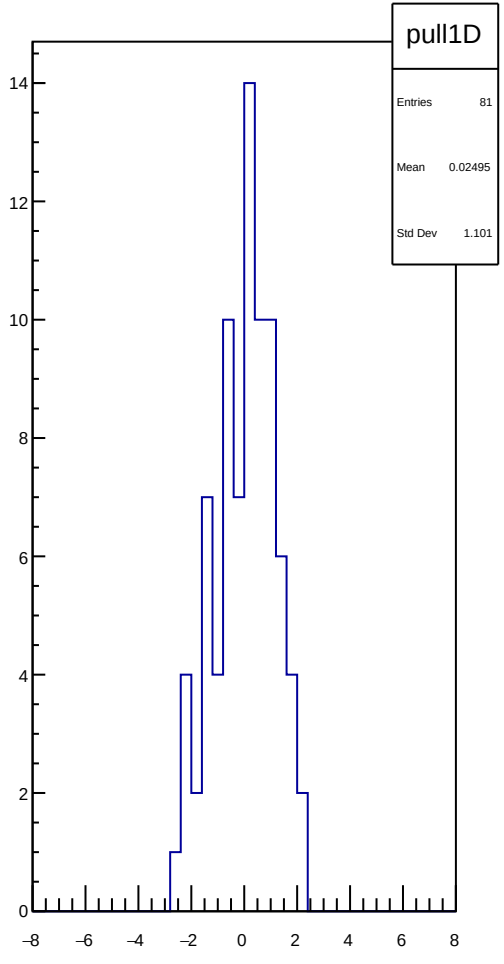

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 4096 / 80
p0 1793 ± 1.443
2100
2000
1900
1800
1700
1600

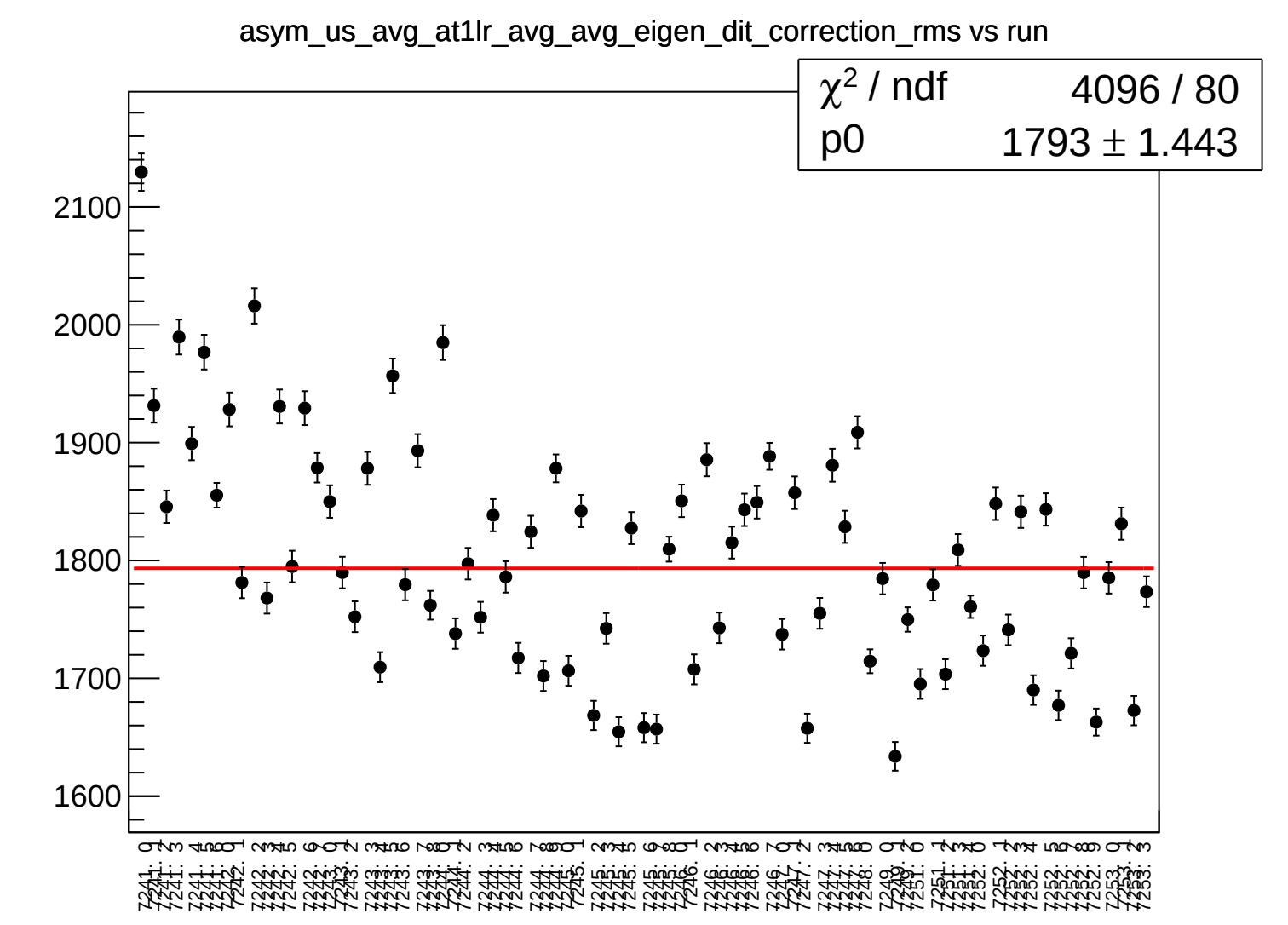

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 102.2 / 80
p0 3588 ± 2480
pull
Entries 81
Mean 589.2
Std Dev 0

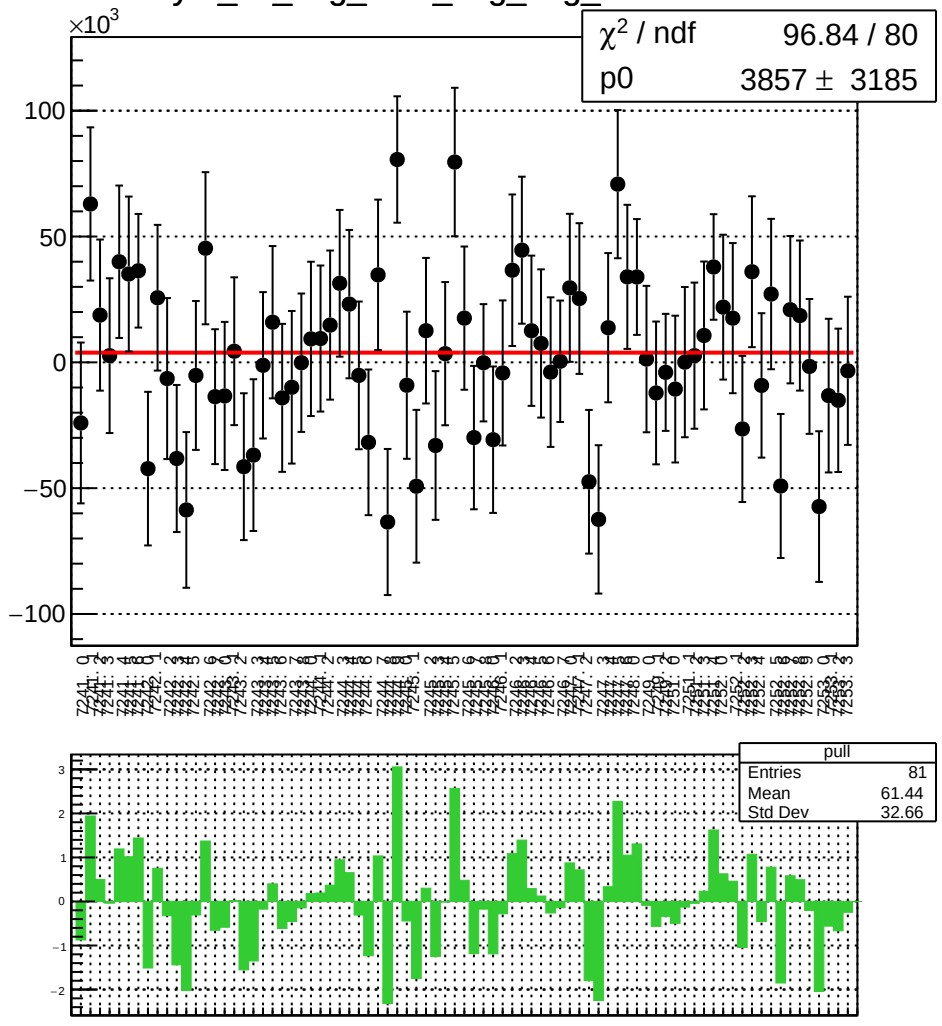

pull1D
Entries 81
Mean −0.006411
Std Dev 1.123

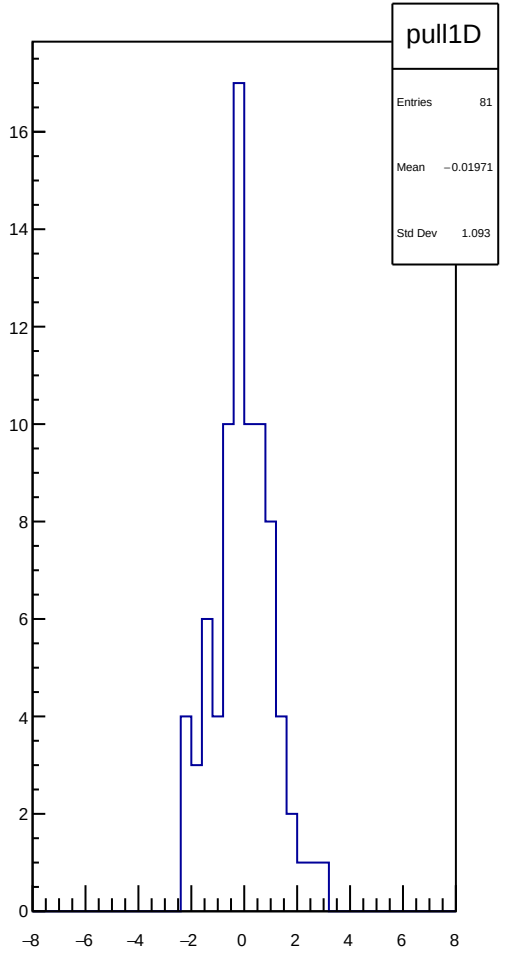

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ^2 / ndf 115.9 / 80
p0 2183 ± 1.754
2240
2220
2200
2180
2160
2140
2120

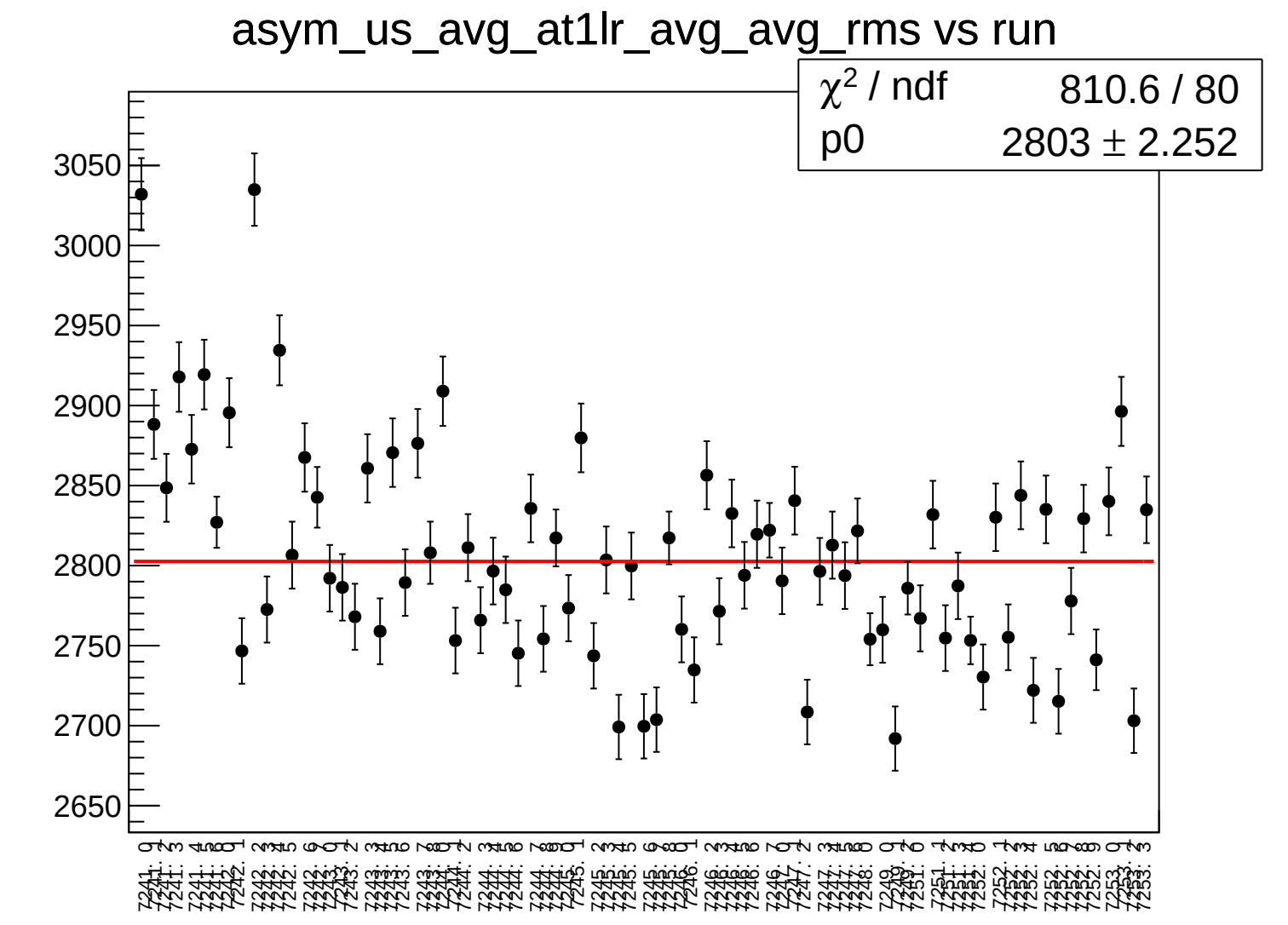

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
χ² / ndf 98.22 / 80
p0 −360.1± 2040
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 81
Mean −99.57
Std Dev 0
2
1
0
−1
−2

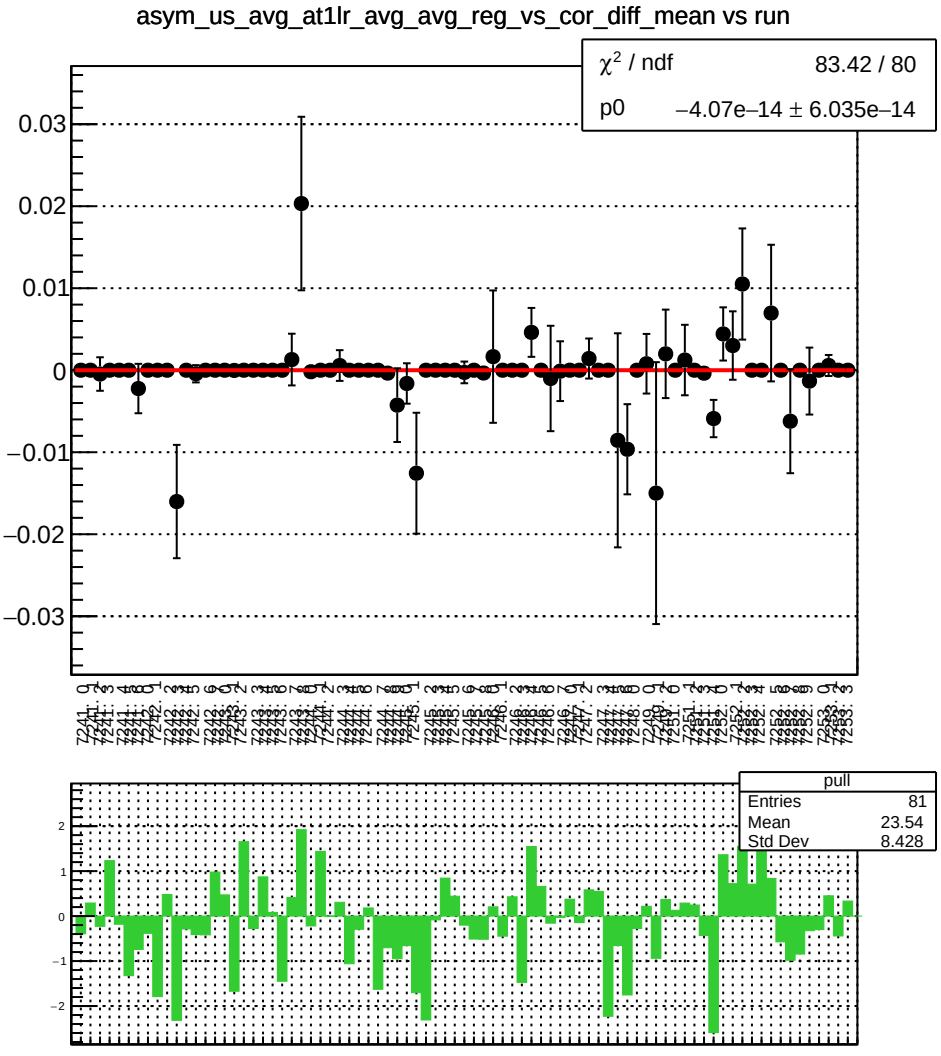

pull1D
Entries 81
Mean 0.02495
Std Dev 1.101
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

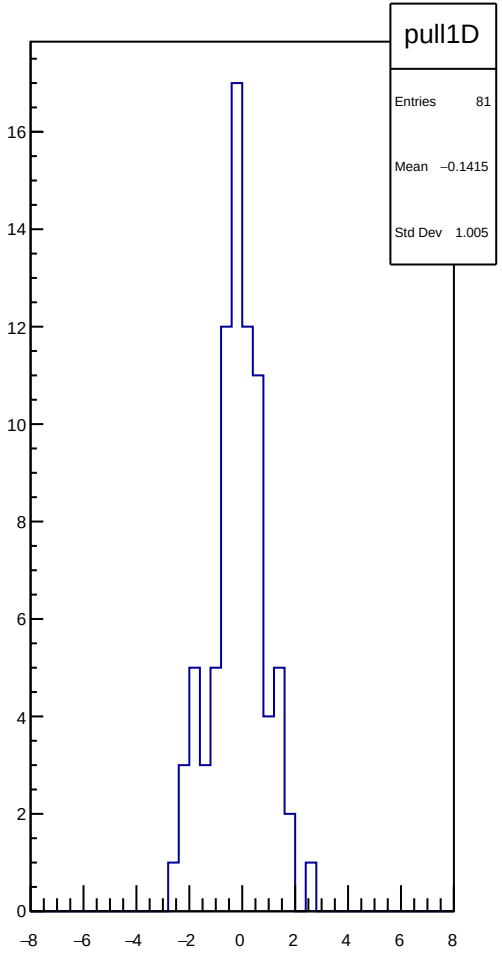

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 4096 / 80
p0 1793 ± 1.443
2100
2000
1900
1800
1700
1600

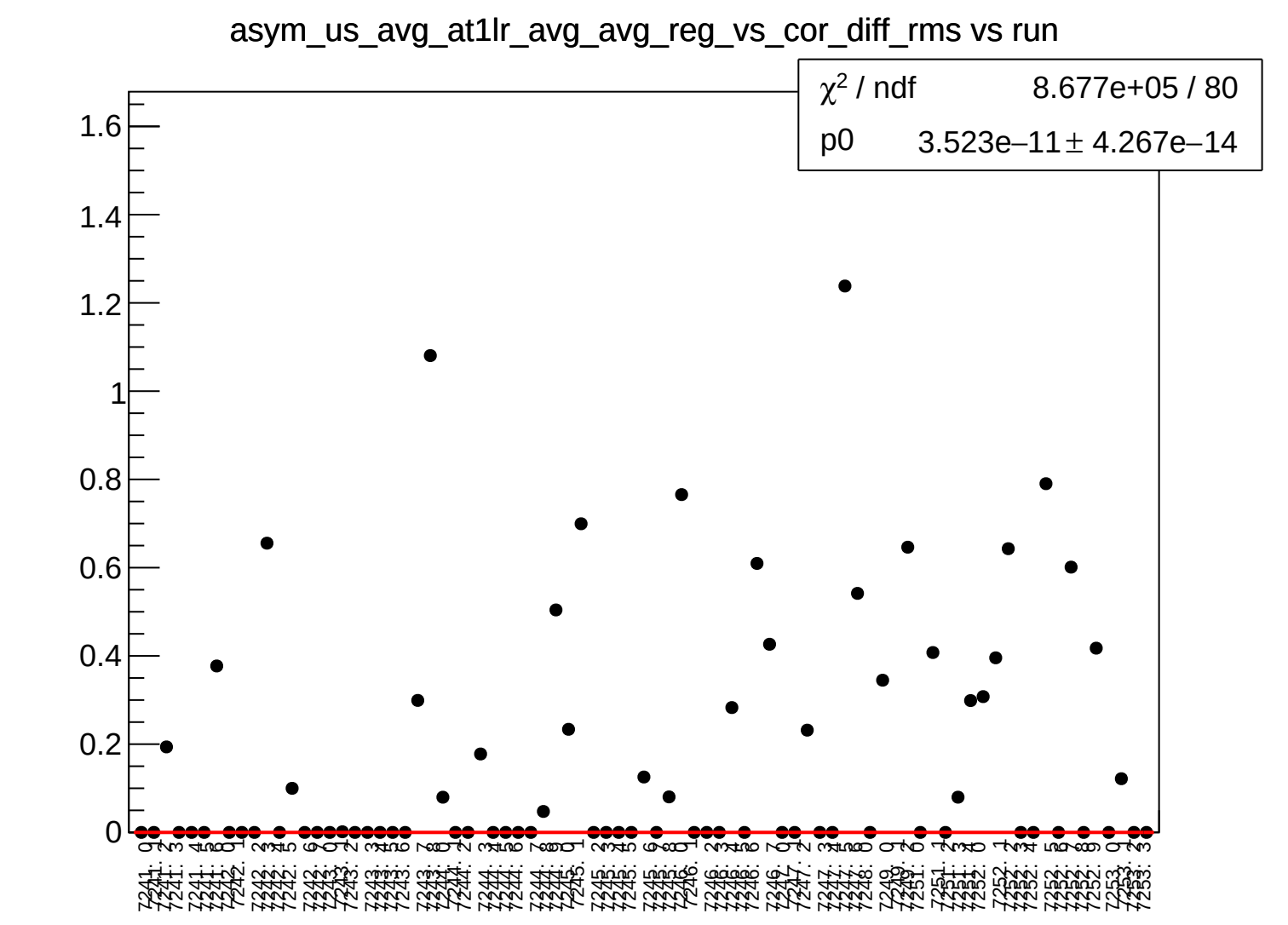

asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 96.84 / 80
p0 3857 ± 3185
100
50
0
−50
−100
pull
Entries 81
Mean 61.44
Std Dev 32.66
3
2
1
0
−1
−2

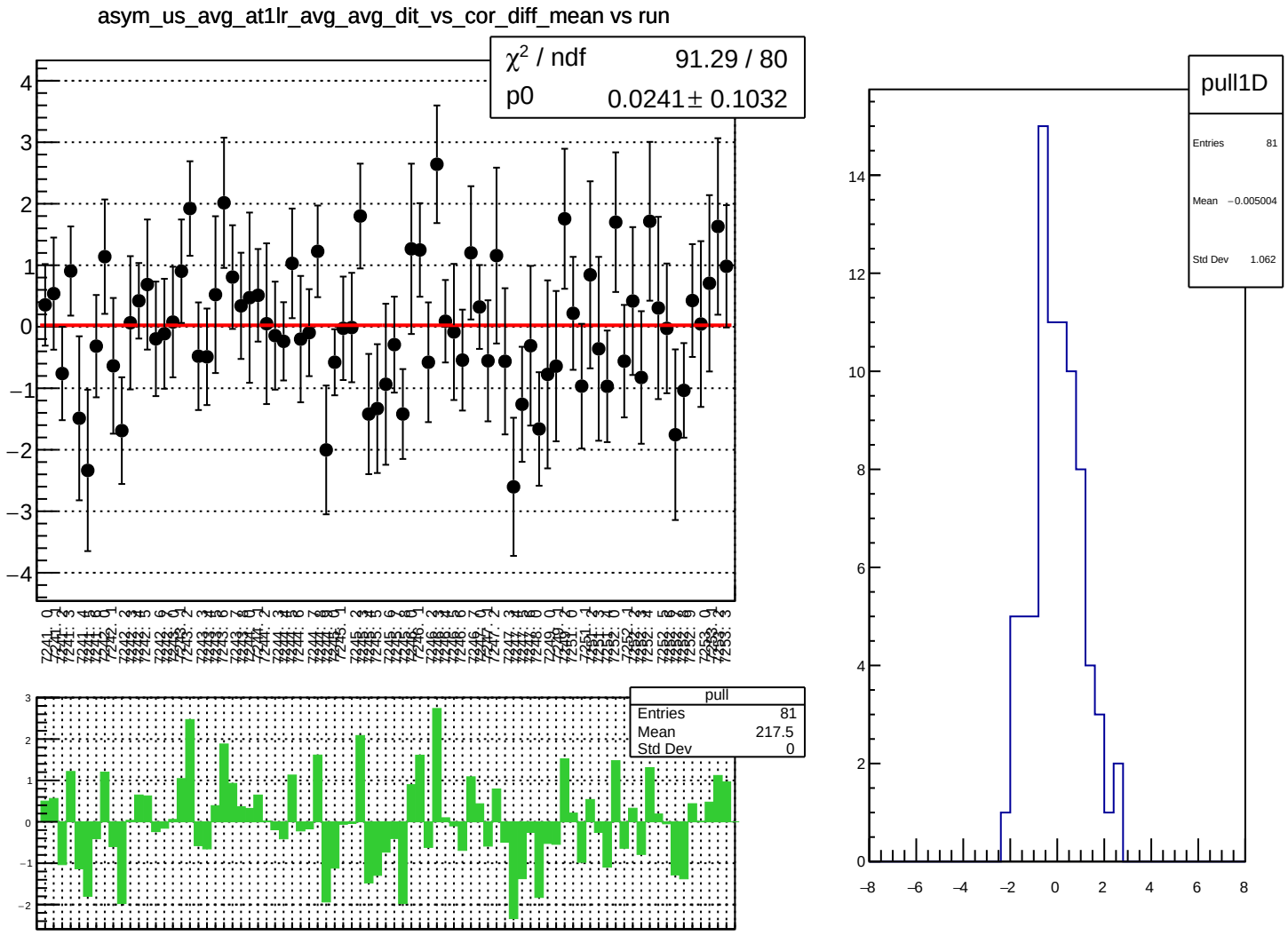

pull1D
Entries 81
Mean −0.01971
Std Dev 1.093
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

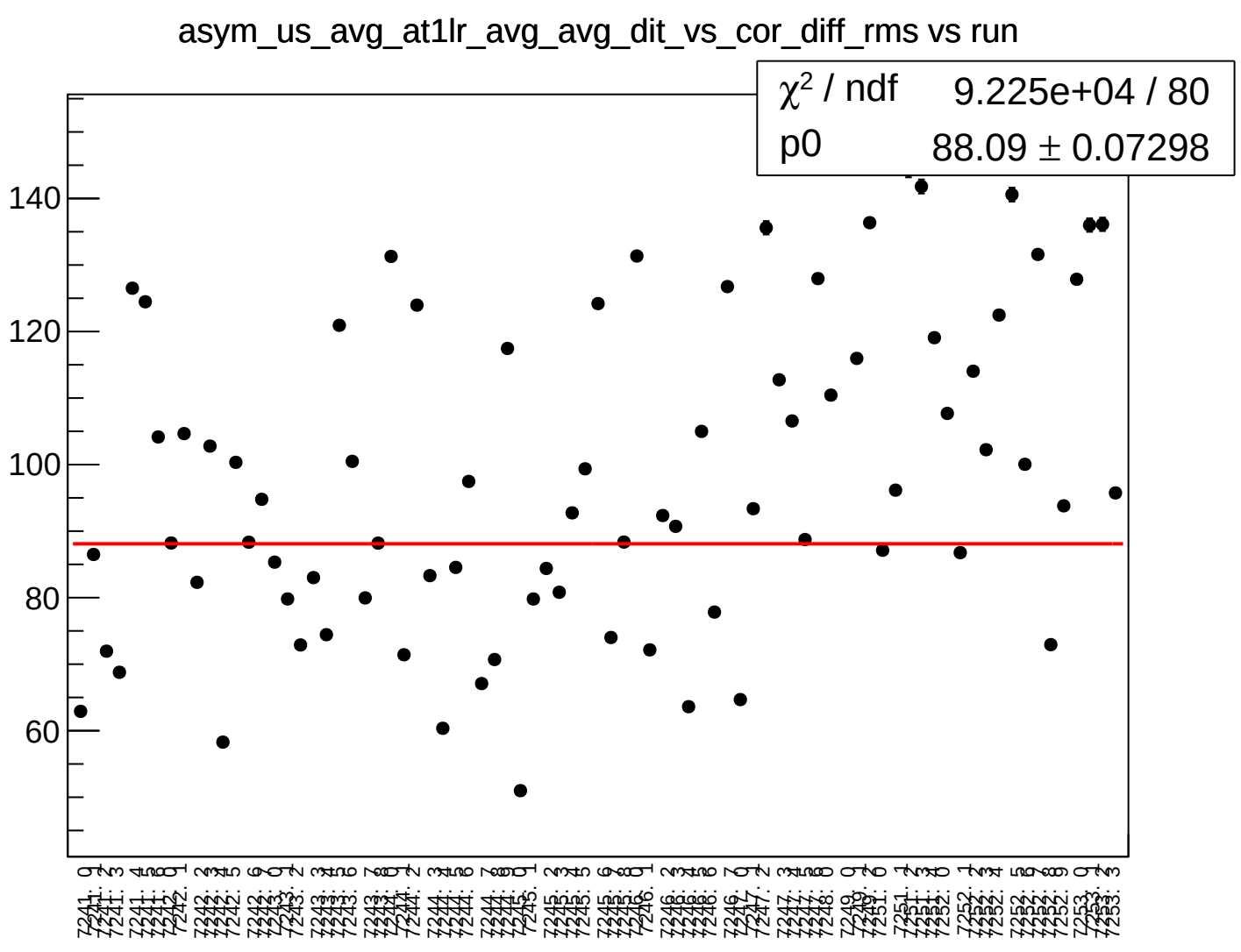

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 810.6 / 80
p0 2803 ± 2.252
3050
3000
2950
2900
2850
2800
2750
2700
2650

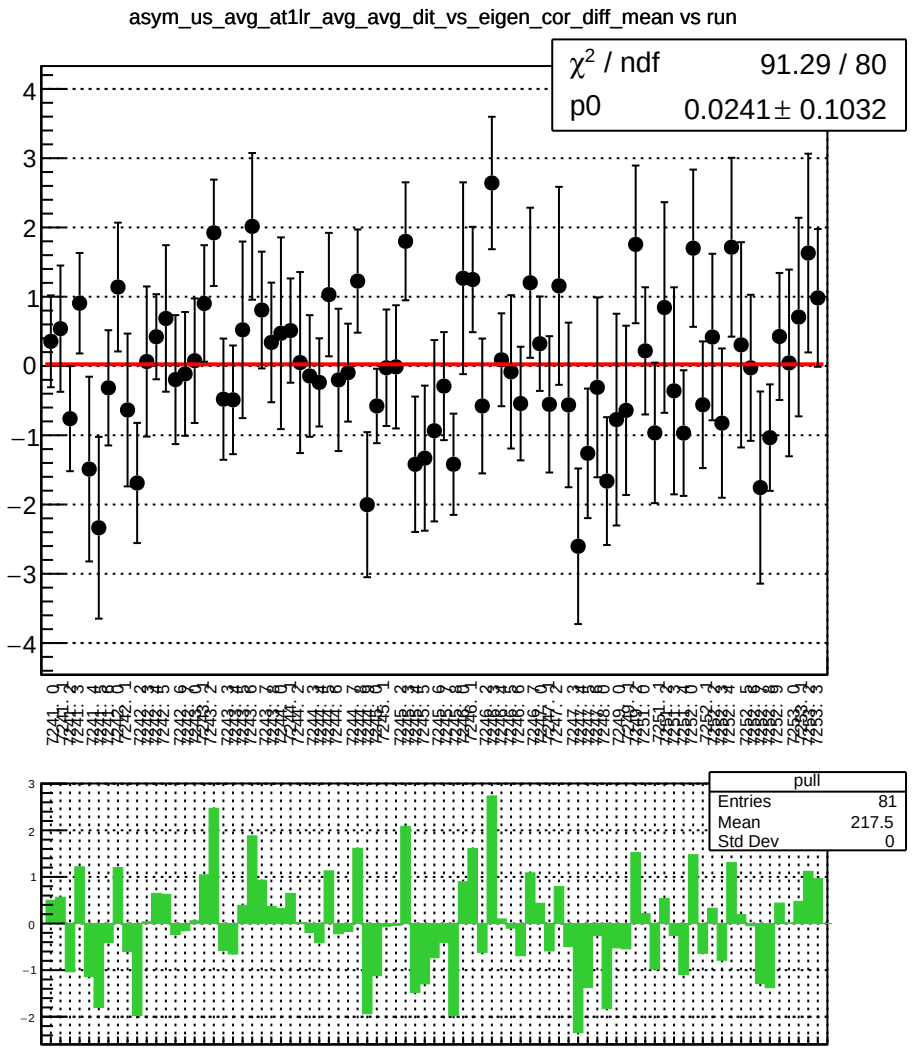

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 83.42 / 80
p0 −4.07e−14 ± 6.035e−14
pull
Entries 81
Mean 23.54
Std Dev 8.428

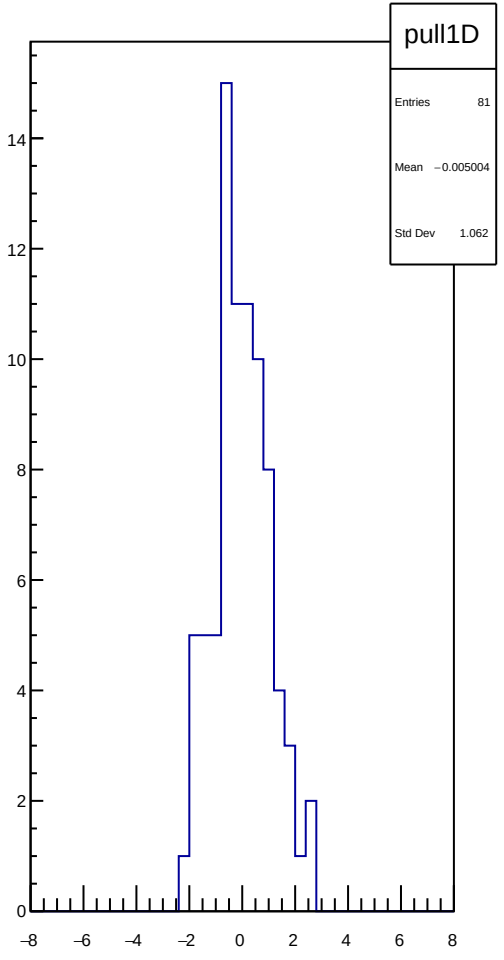

pull1D
Entries 81
Mean −0.1415
Std Dev 1.005

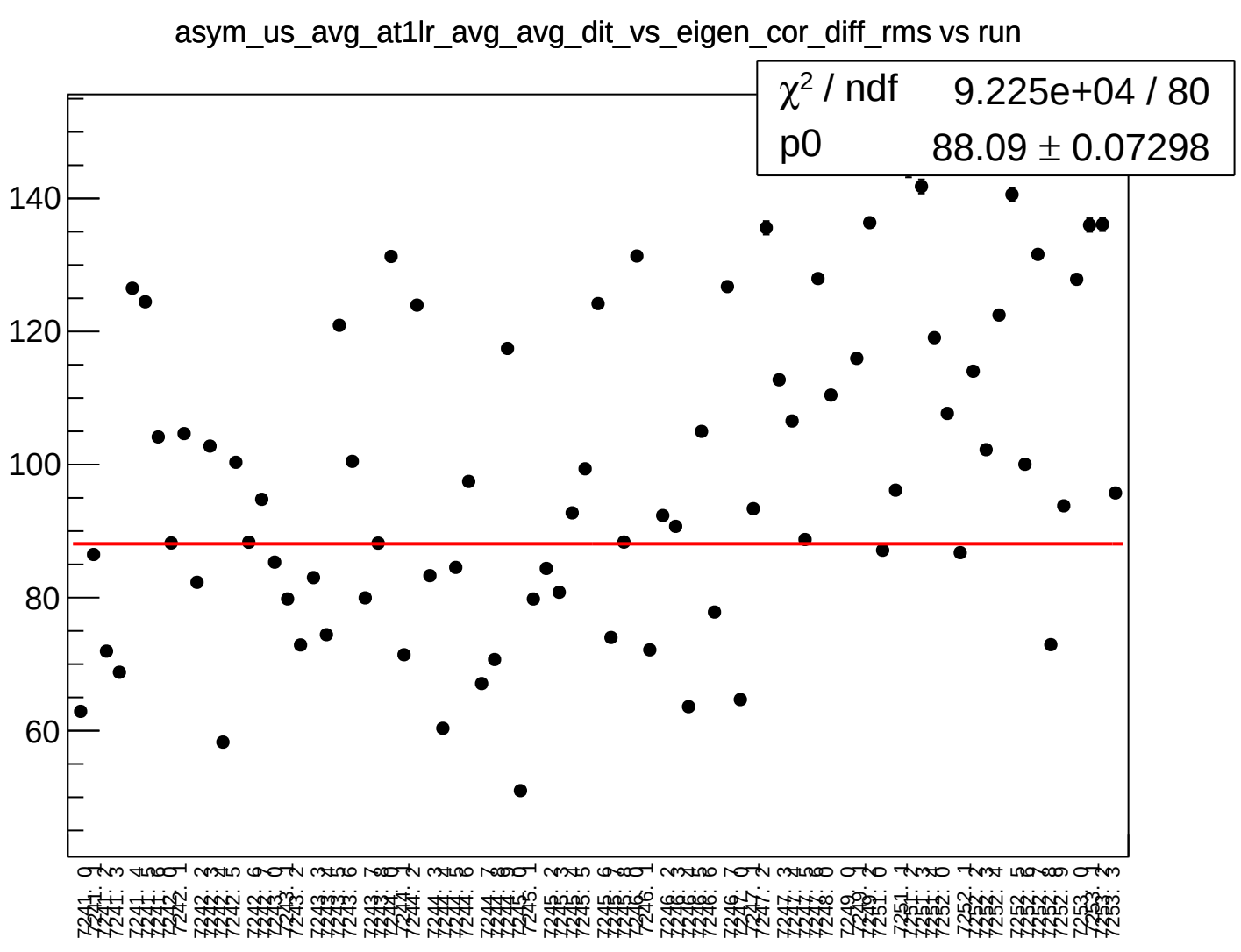

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.677e+05 / 80
p0 3.523e−11 ± 4.267e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

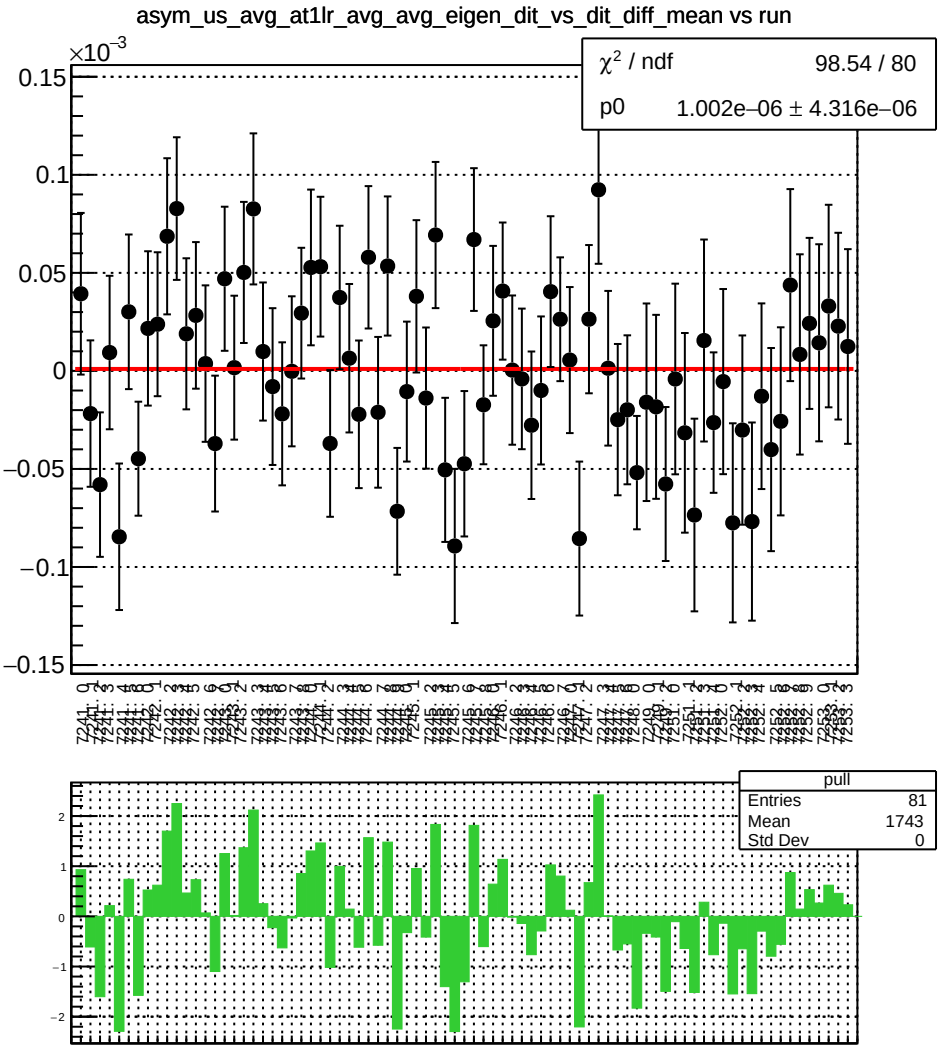

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 91.29 / 80
p0 0.0241 ± 0.1032
pull
Entries 81
Mean 217.5
Std Dev 0
pull1D
Entries 81
Mean −0.005004
Std Dev 1.062

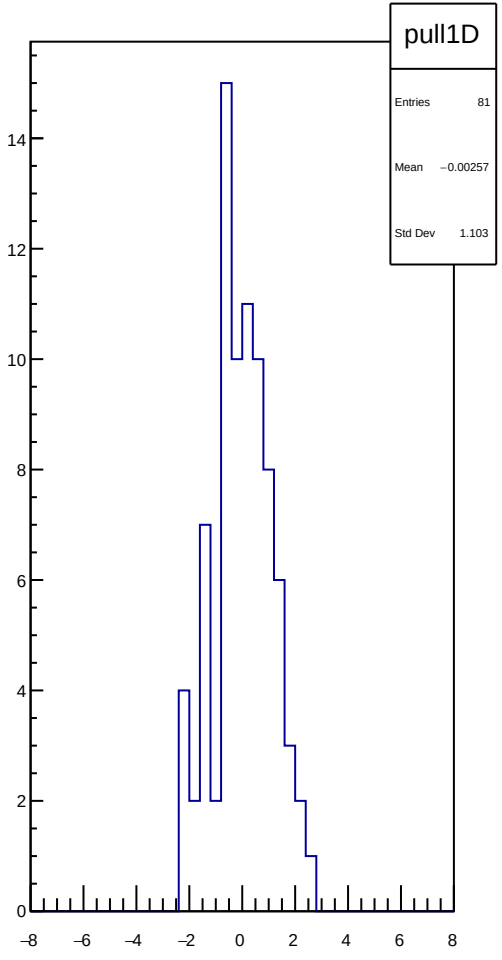

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9.225e+04 / 80
p0 88.09 ± 0.07298
140
120
100
80
60

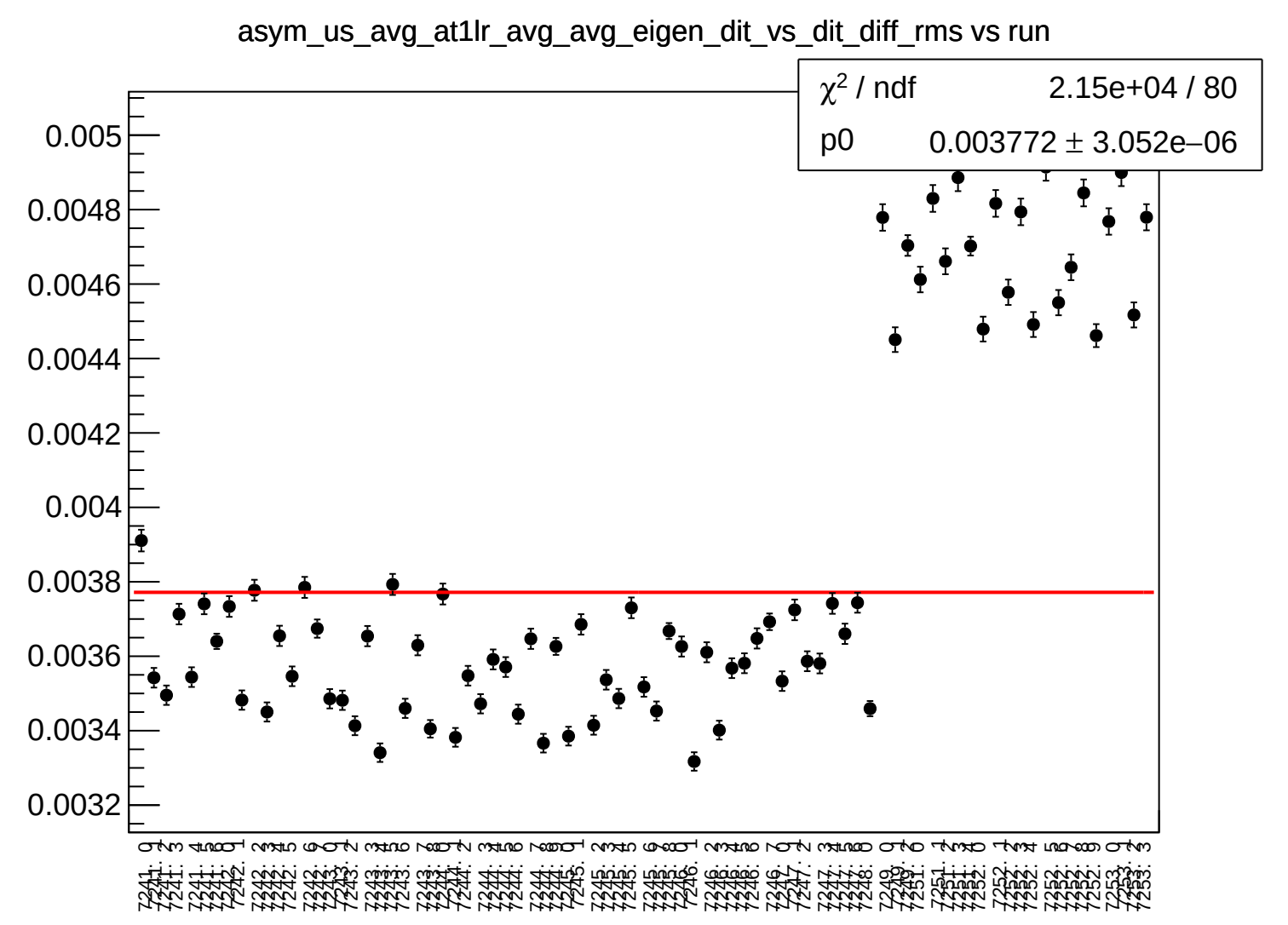

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.29 / 80
p0 0.0241 ± 0.1032
pull
Entries 81
Mean 217.5
Std Dev 0

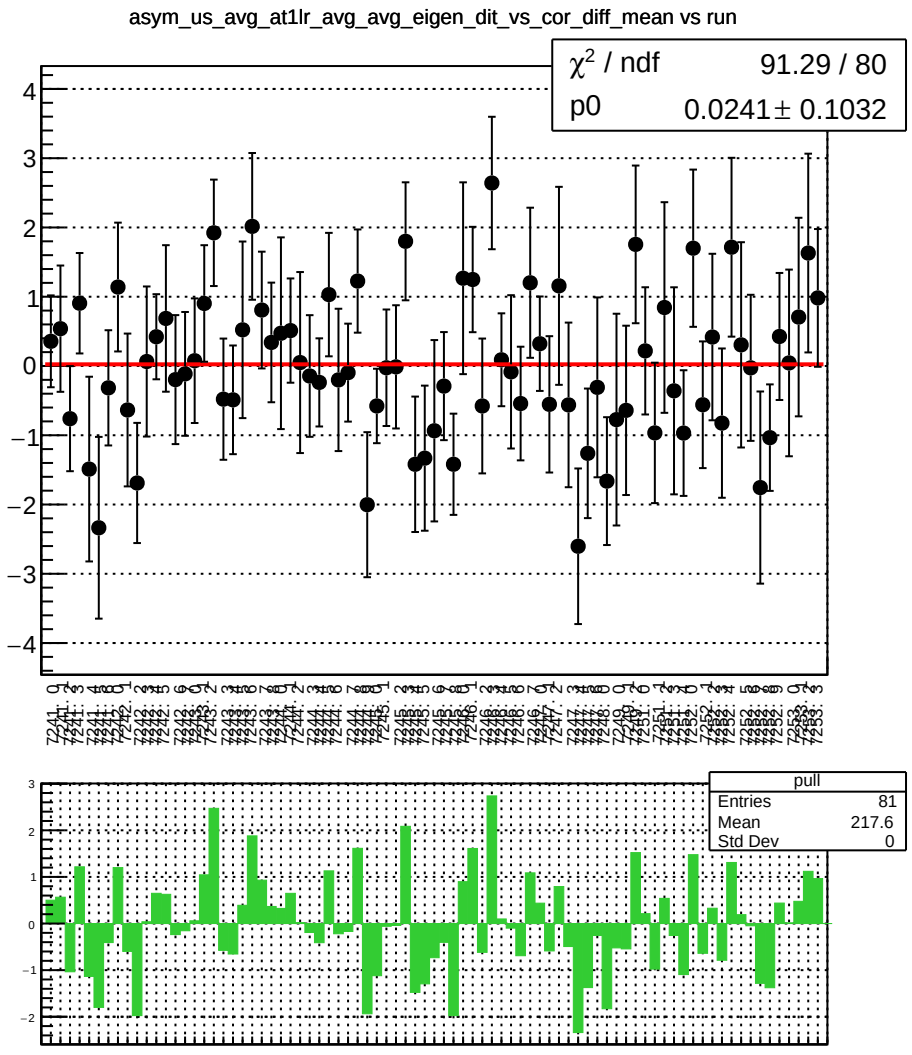

pull1D
Entries 81
Mean −0.005004
Std Dev 1.062

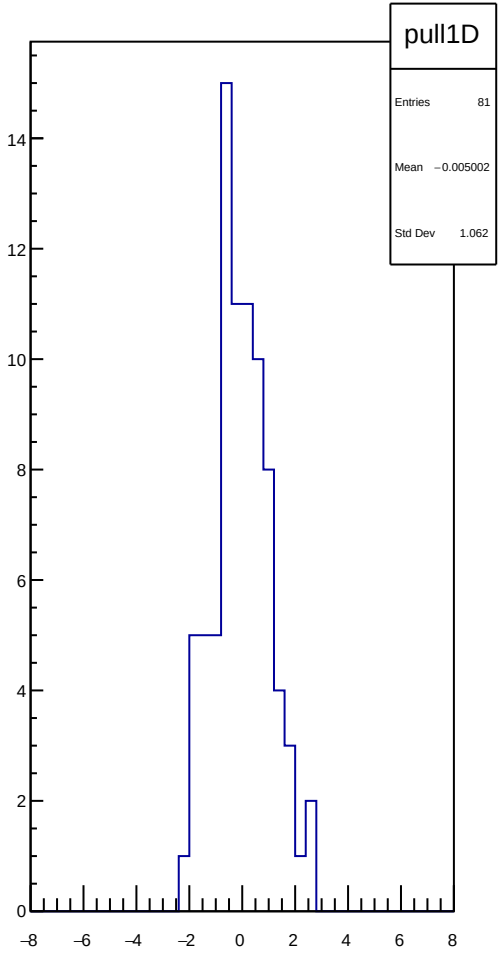

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.225e+04 / 80
p0 88.09 ± 0.07298
140
120
100
80
60

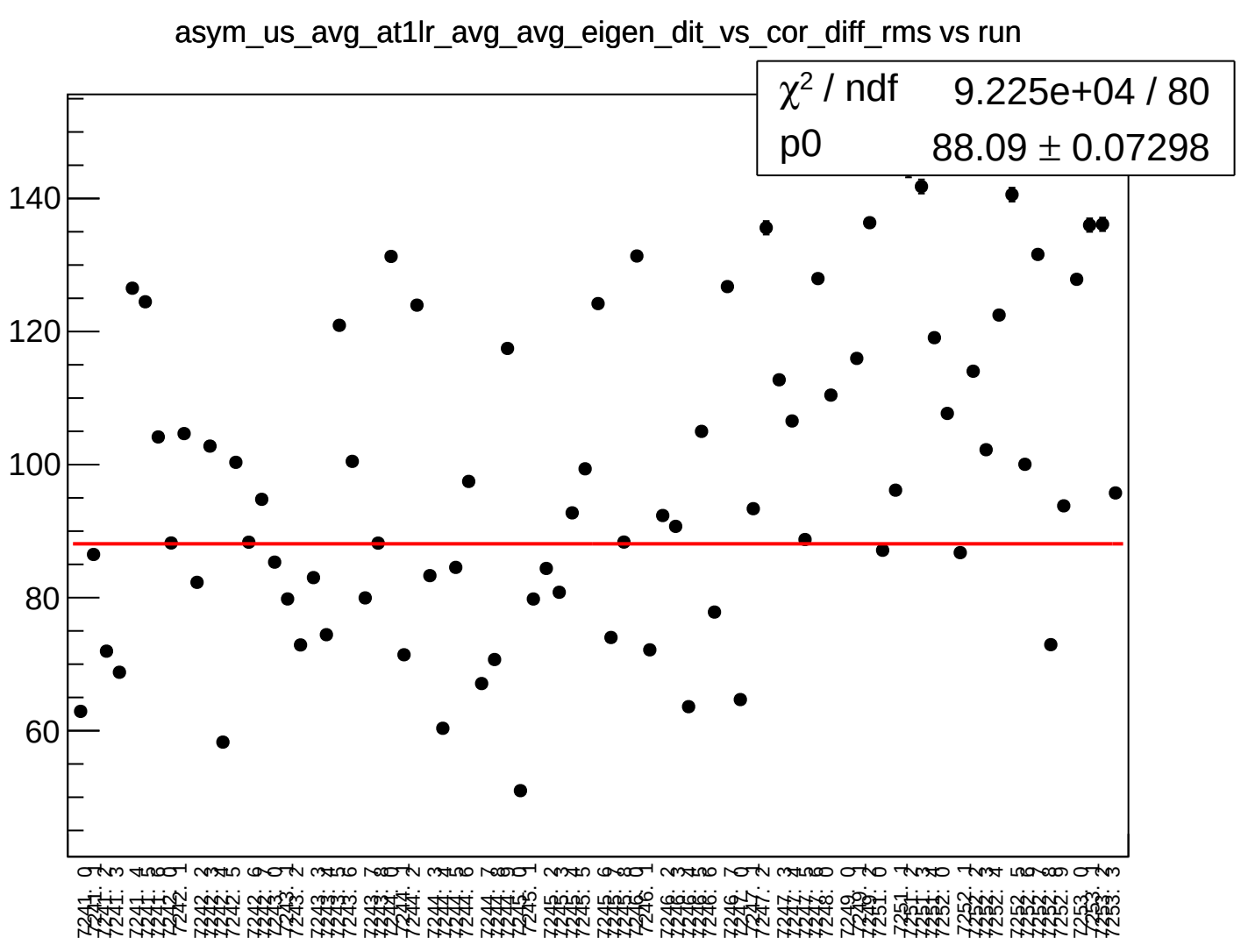

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.54 / 80
p0 1.002e−06 ± 4.316e−06
pull
Entries 81
Mean 1743
Std Dev 0

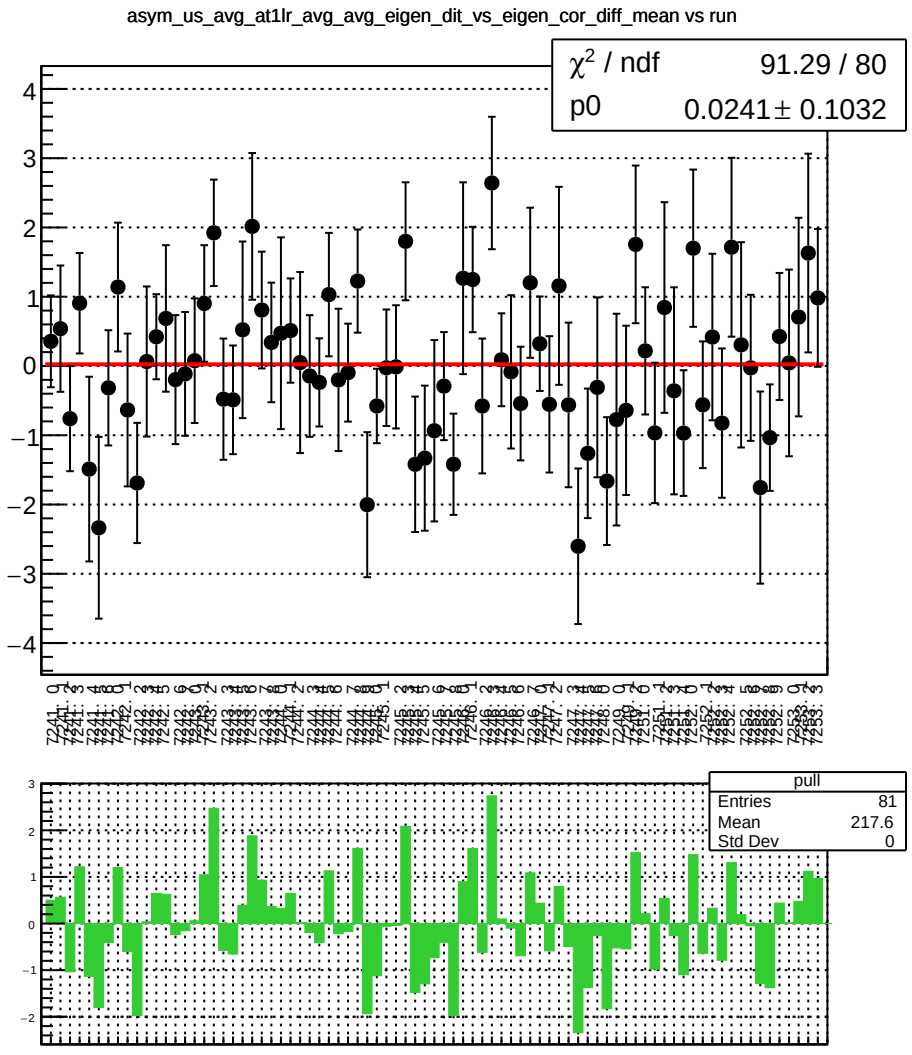

pull1D
Entries 81
Mean −0.00257
Std Dev 1.103

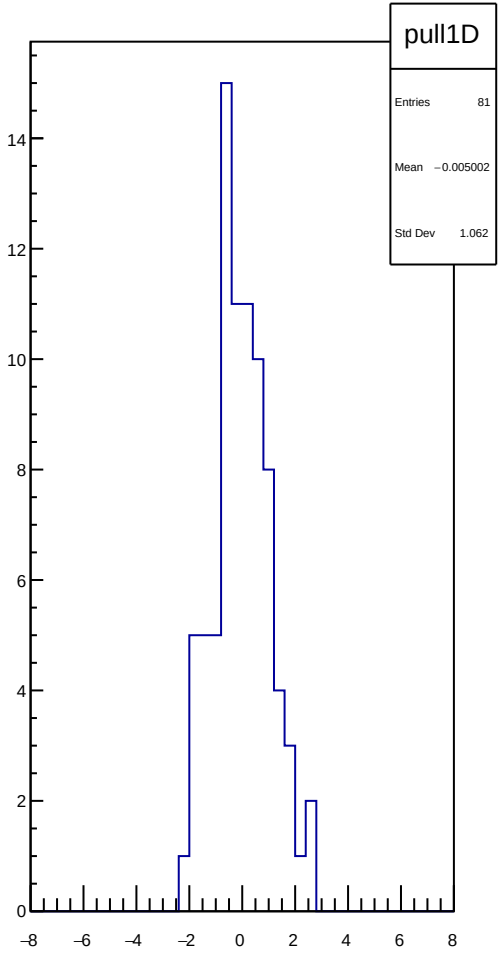

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.15e+04 / 80
p0 0.003772 ± 3.052e−06
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032

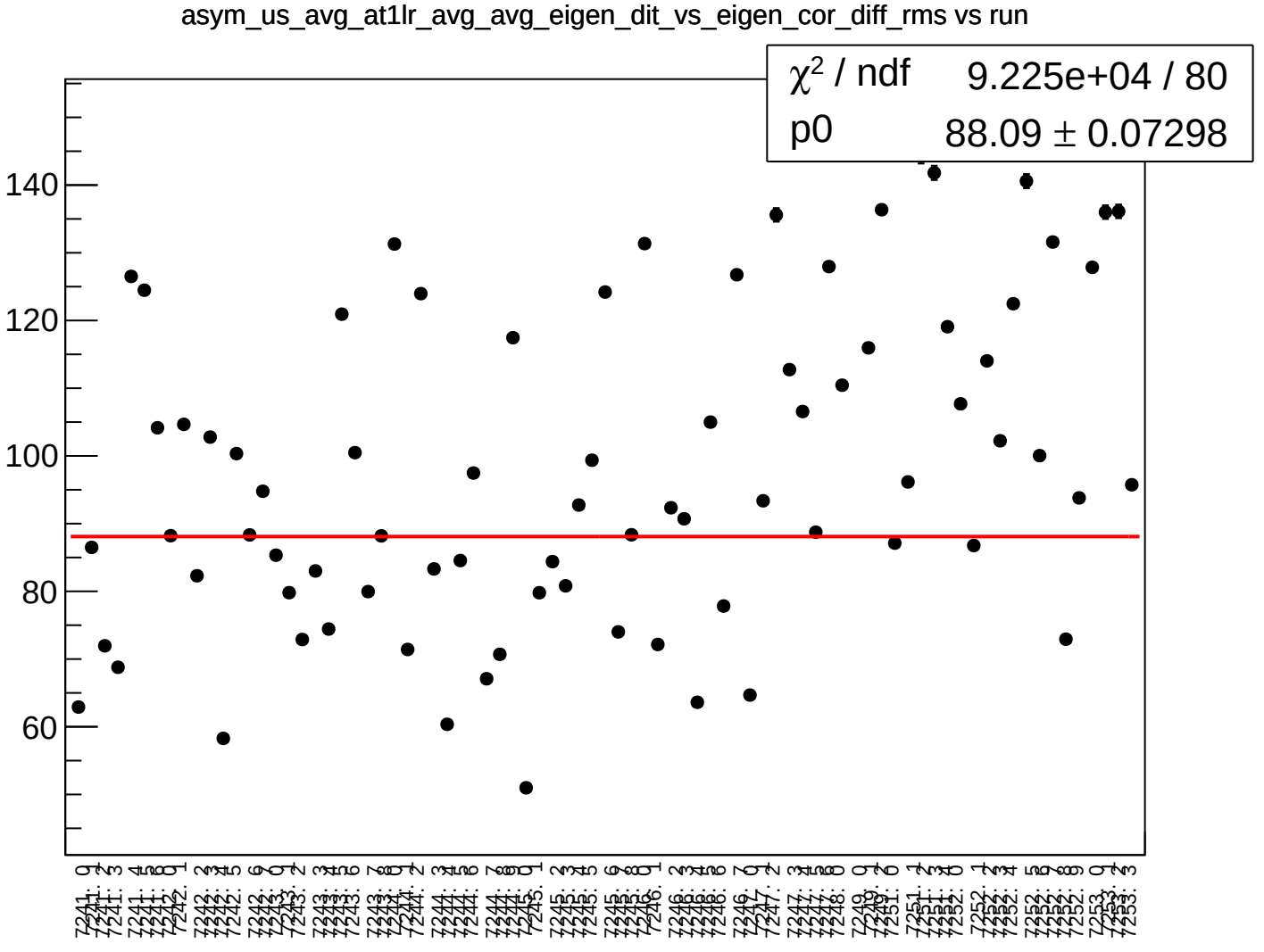

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.29 / 80
p0 0.0241 ± 0.1032
pull
Entries 81
Mean 217.6
Std Dev 0

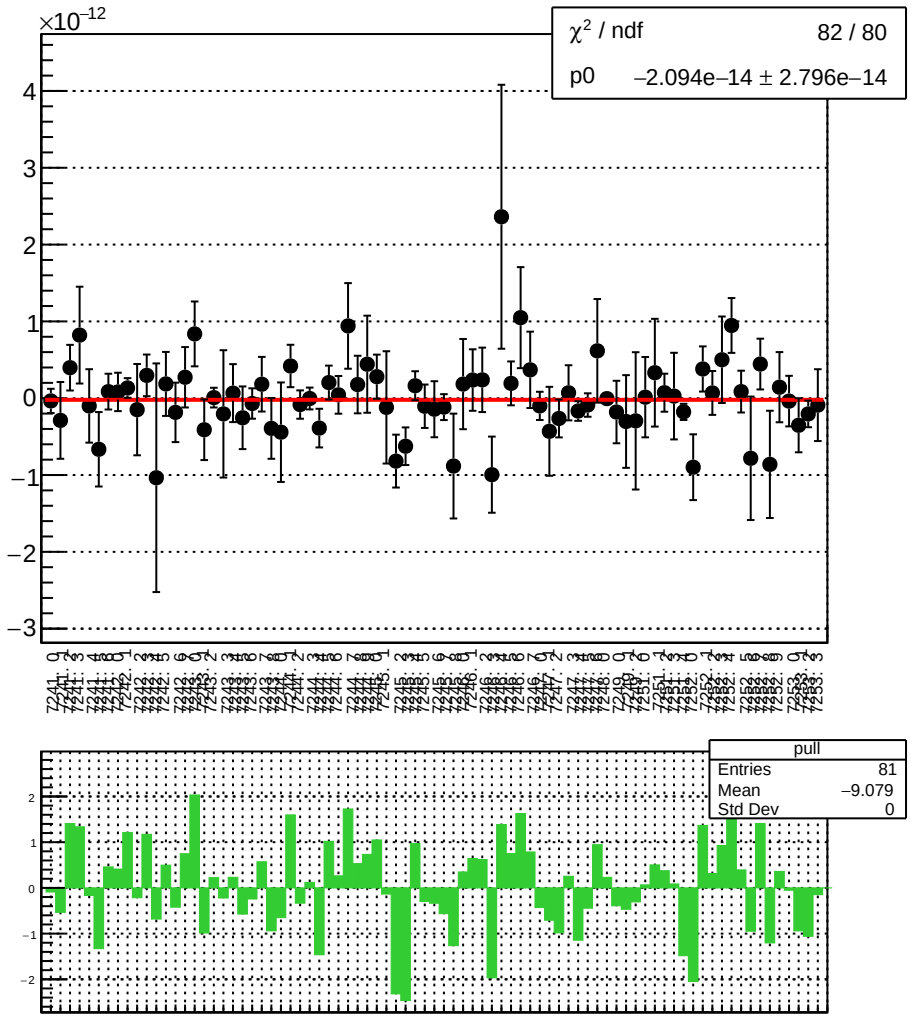

pull1D
Entries 81
Mean −0.005002
Std Dev 1.062

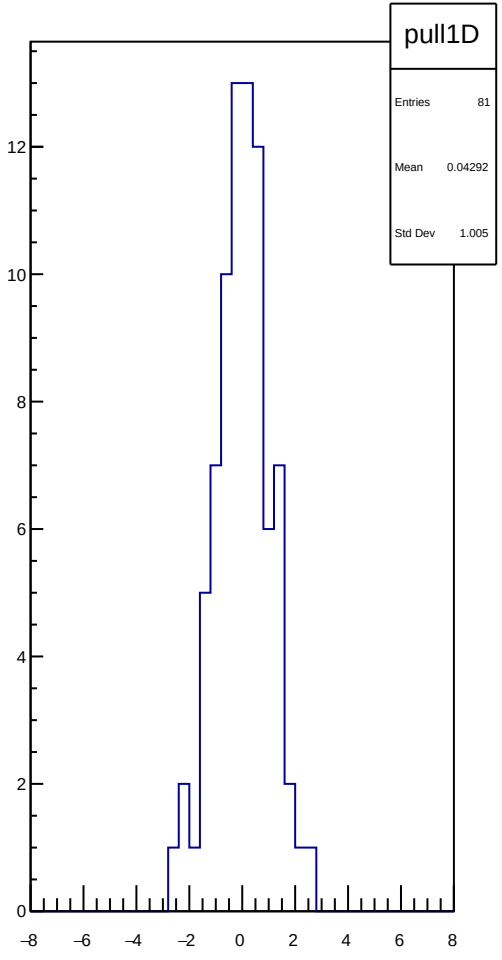

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.225e+04 / 80
p0 88.09 ± 0.07298
140
120
100
80
60

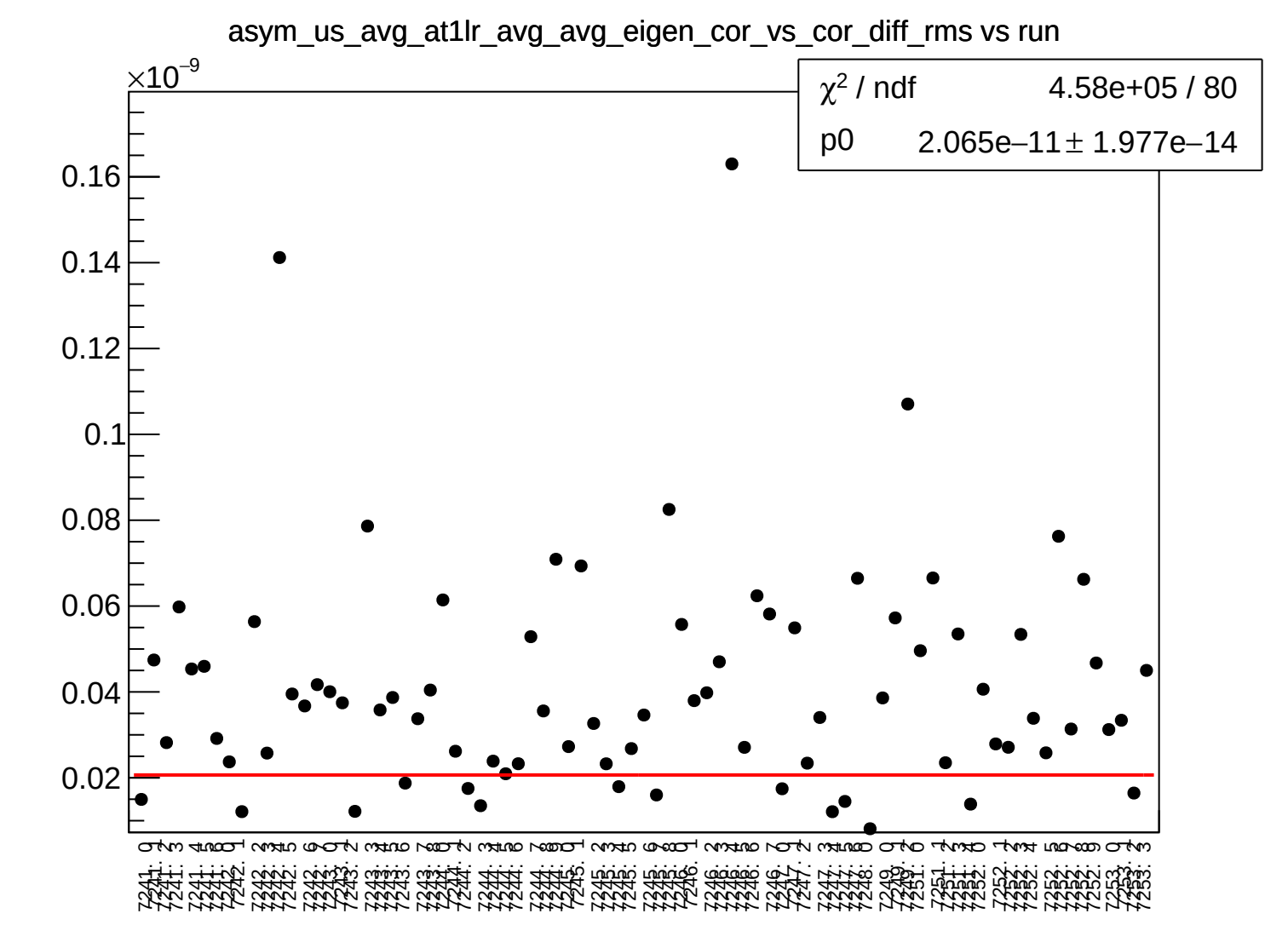

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.29 / 80
p0 0.0241 ± 0.1032
pull
Entries 81
Mean 217.6
Std Dev 0

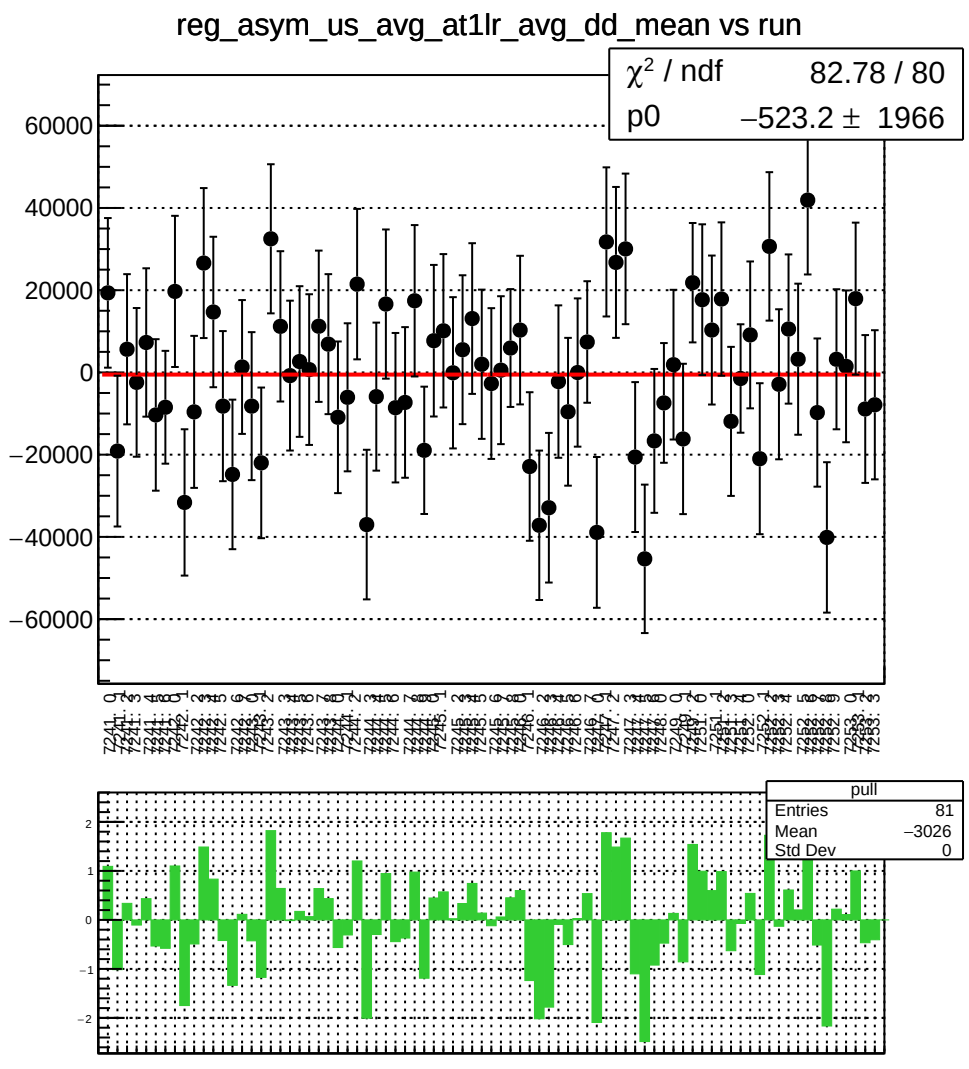

pull1D
Entries 81
Mean −0.005002
Std Dev 1.062

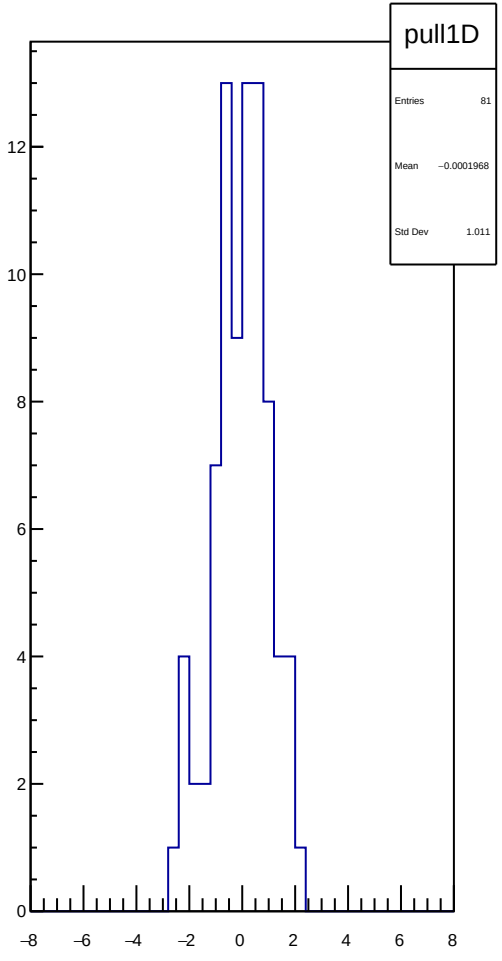

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.225e+04 / 80
p0 88.09 ± 0.07298
140
120
100
80
60

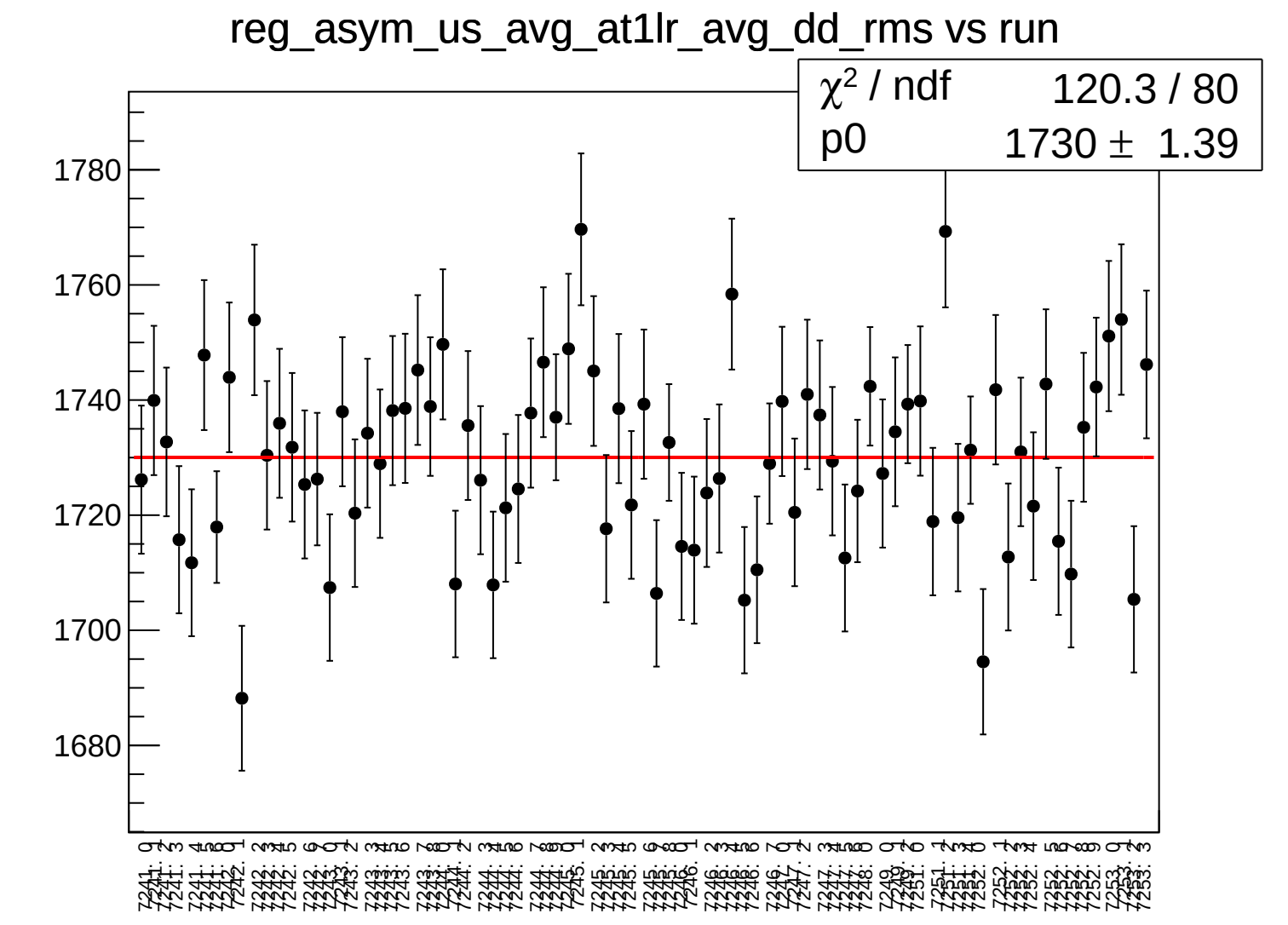

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82 / 80
p0 −2.094e−14 ± 2.796e−14
pull
Entries 81
Mean −9.079
Std Dev 0

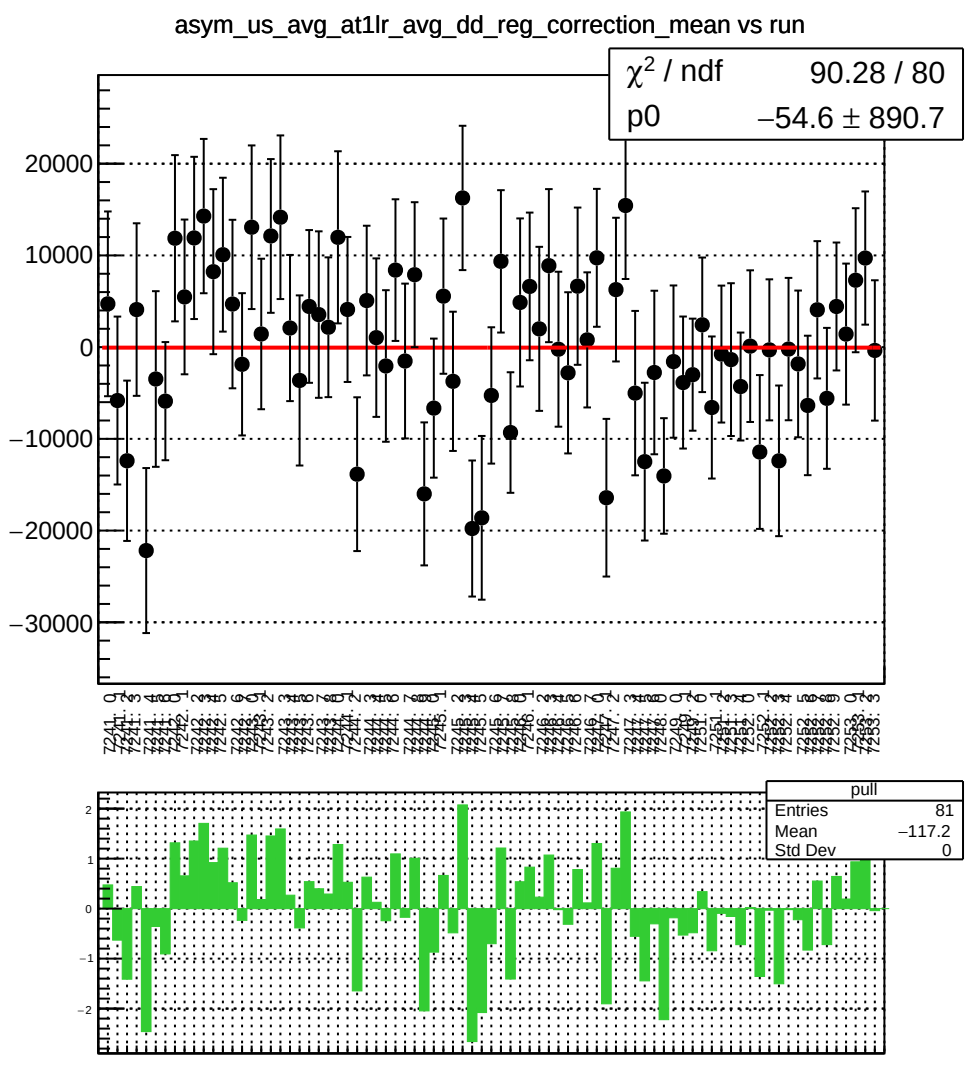

pull1D
Entries 81
Mean 0.04292
Std Dev 1.005

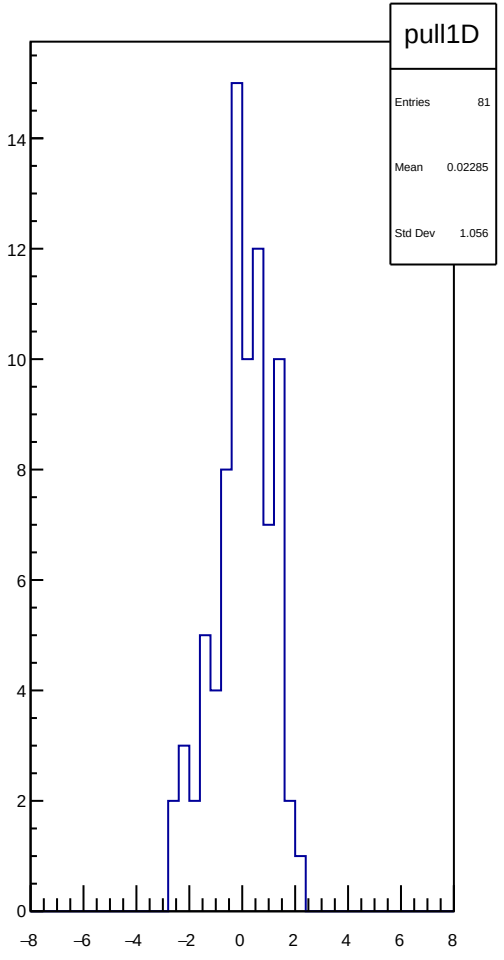

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.58e+05 / 80
p0 2.065e−11 ± 1.977e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

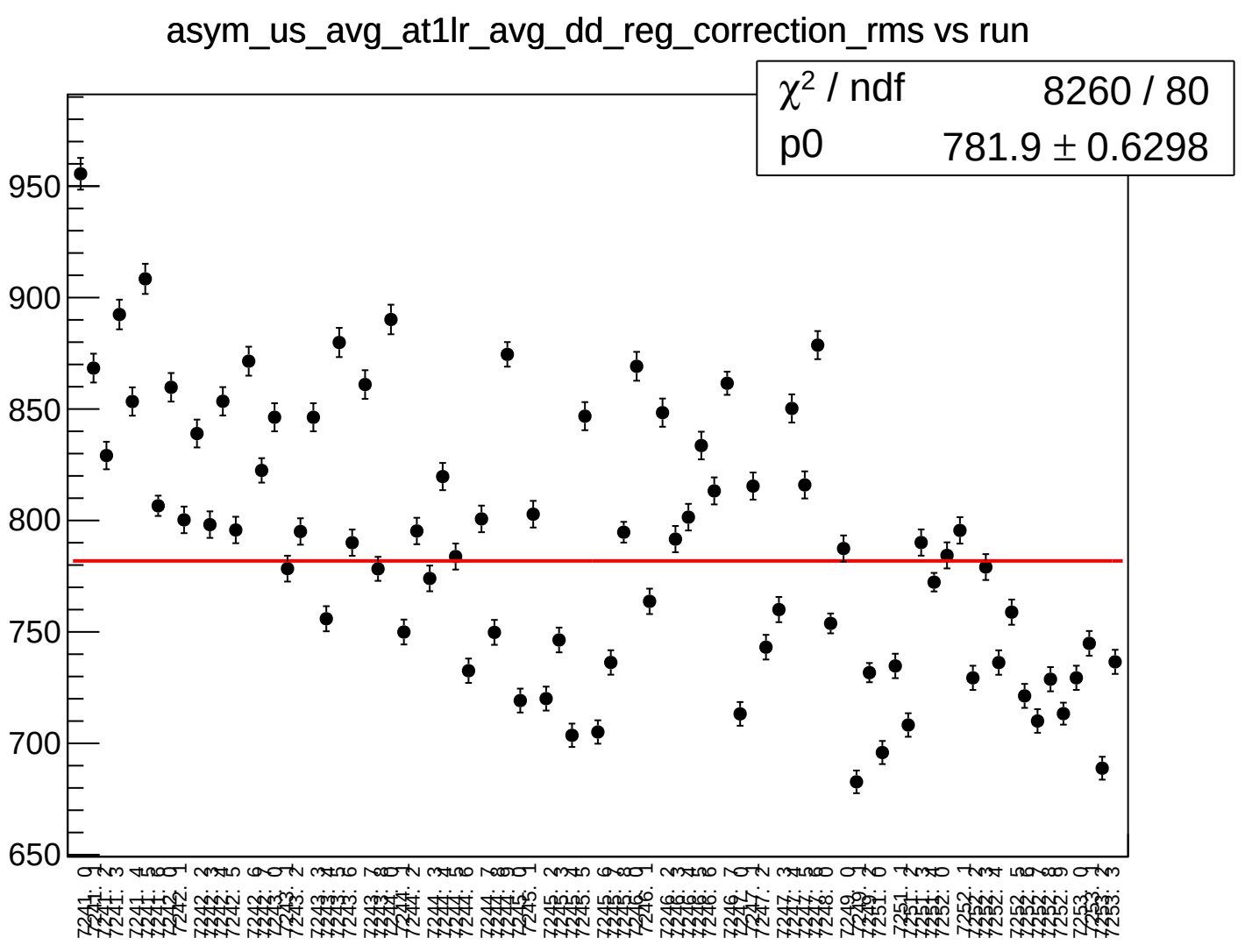

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 82.78 / 80
p0 −523.2 ± 1966
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −3026
Std Dev 0
2
1
0
−1
−2

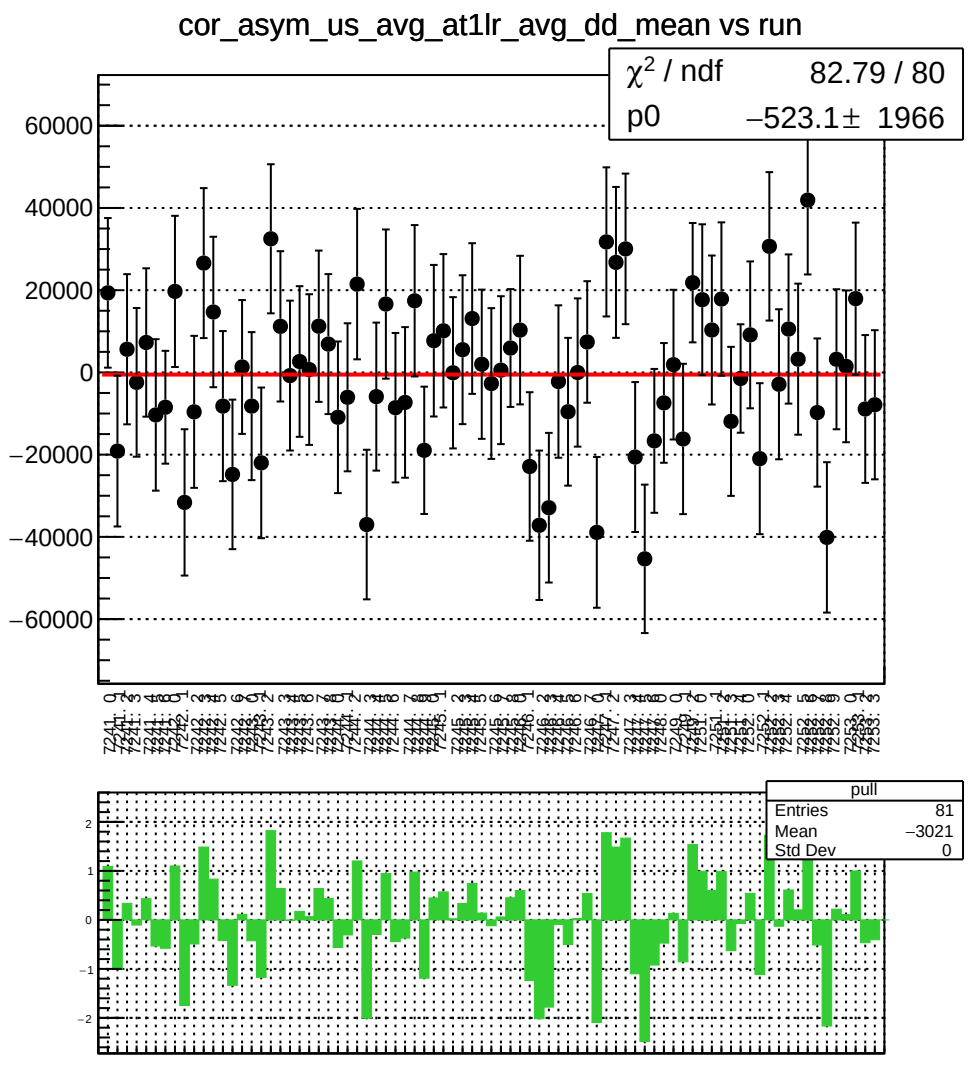

pull1D
Entries 81
Mean −0.0001968
Std Dev 1.011
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

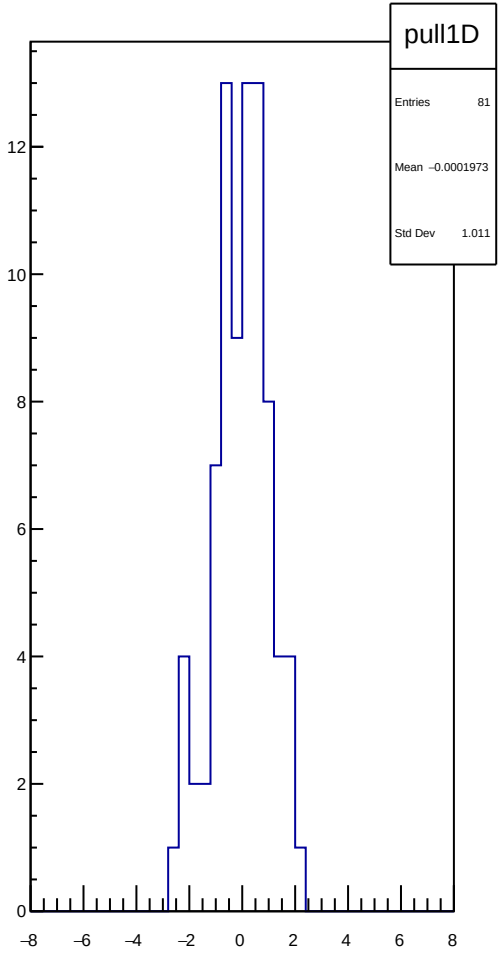

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 120.3 / 80
p0 1730 ± 1.39
1780
1760
1740
1720
1700
1680

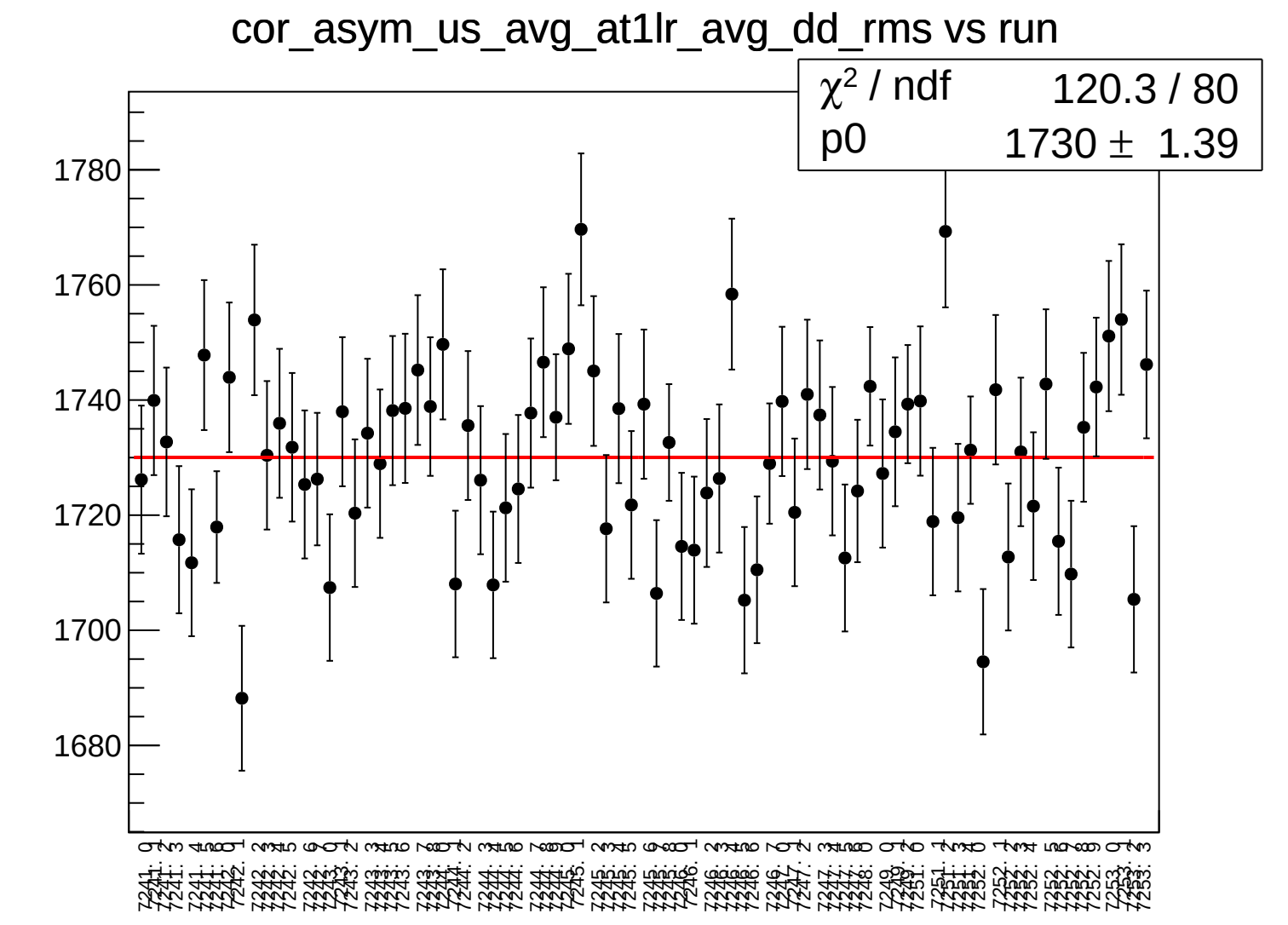

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 90.28 / 80
p0 −54.6 ± 890.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean −117.2
Std Dev 0
2
1
0
−1
−2

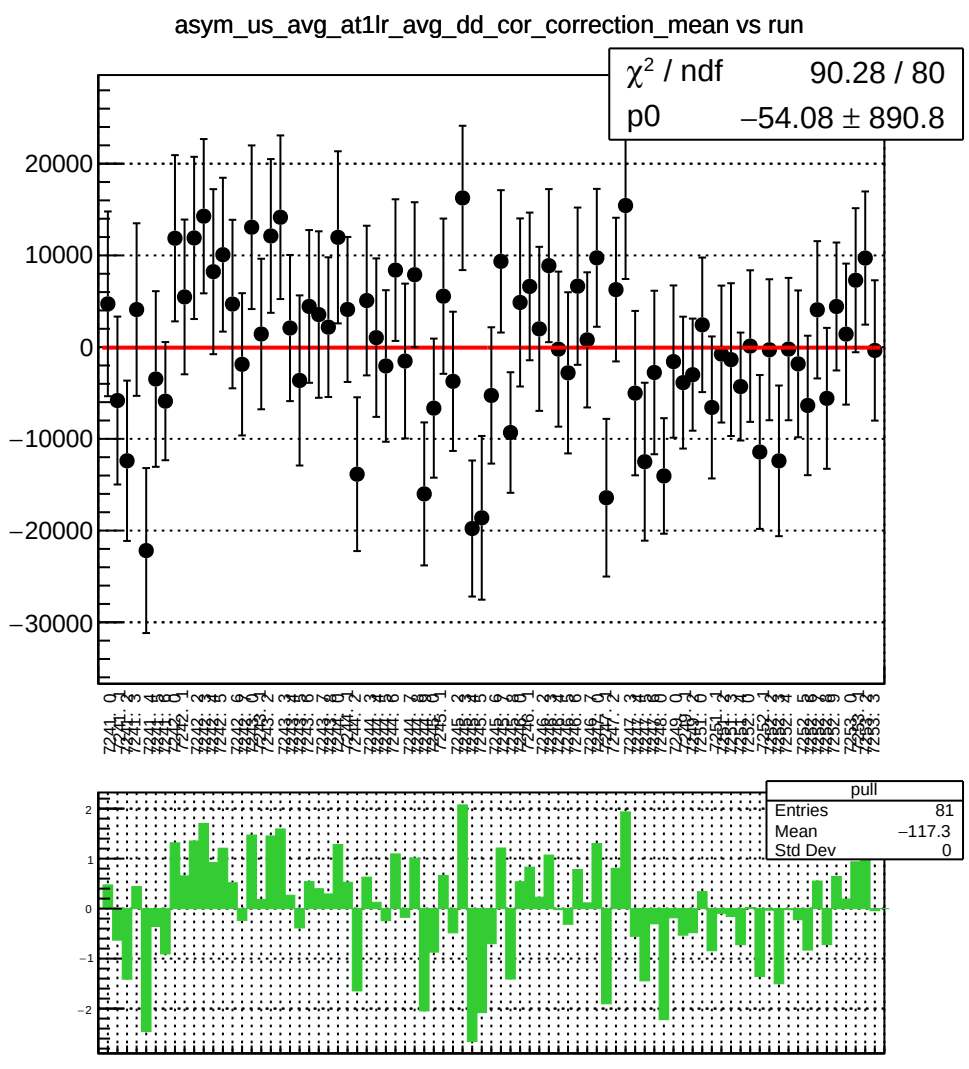

pull1D
Entries 81
Mean 0.02285
Std Dev 1.056
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

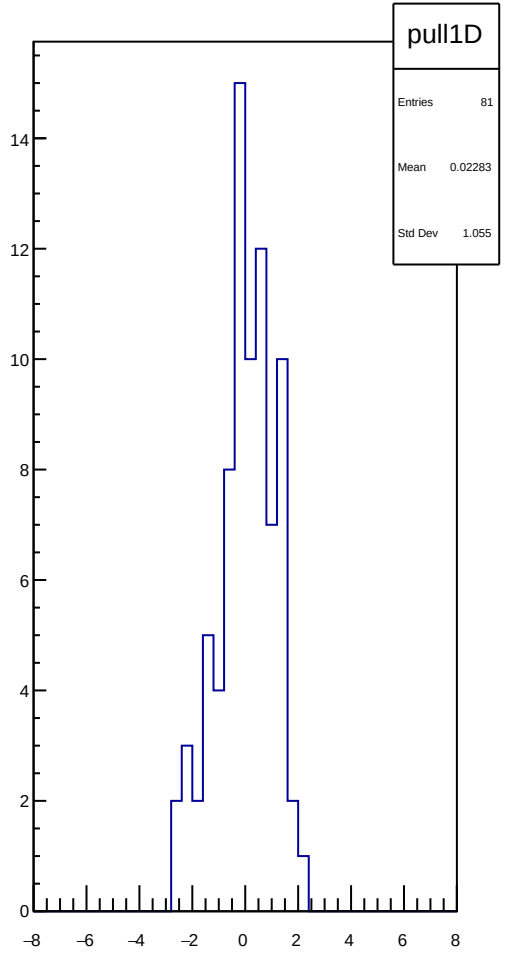

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 8260 / 80
p0 781.9 ± 0.6298
950
900
850
800
750
700
650

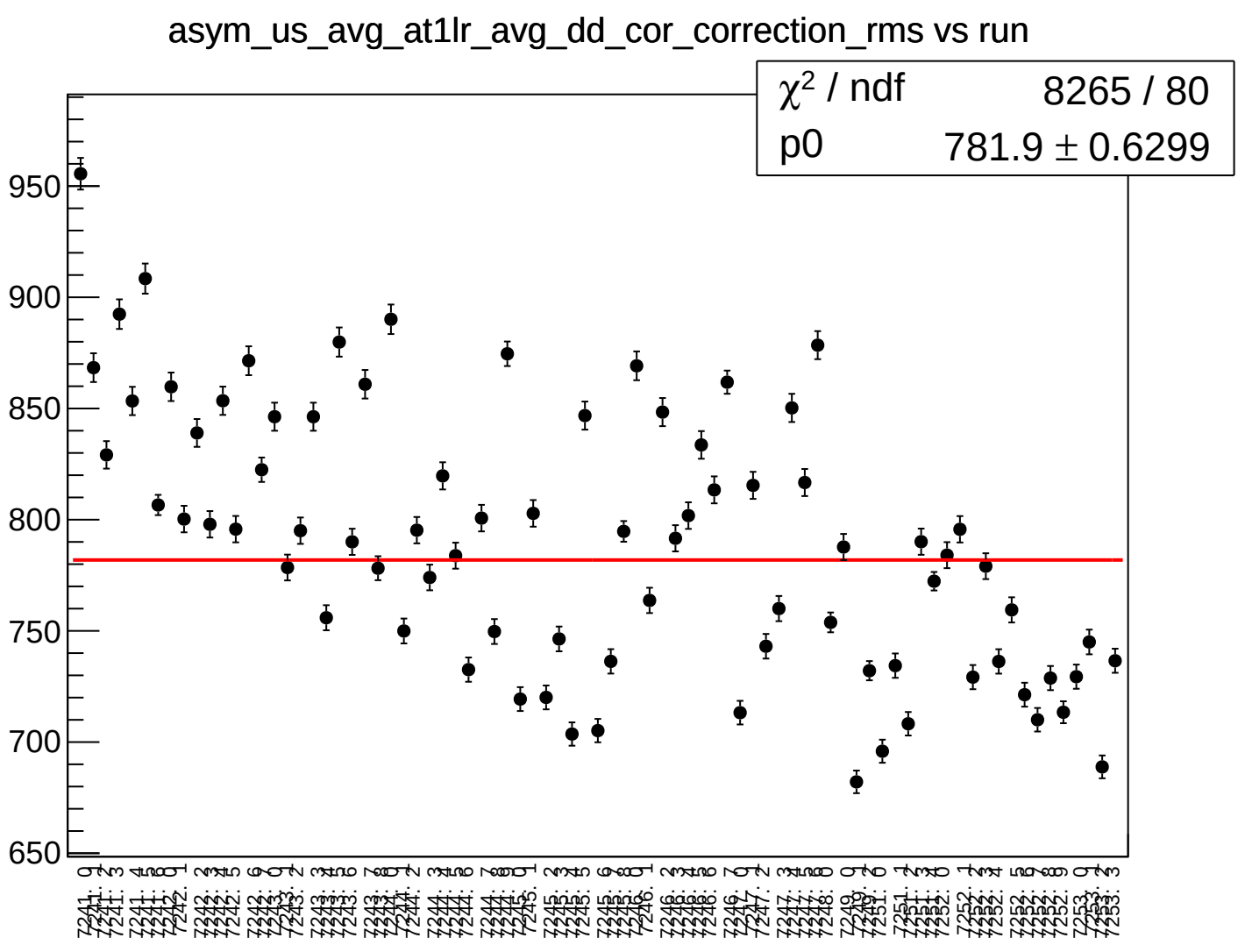

cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 82.79 / 80
p0 −523.1± 1966
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −3021
Std Dev 0
2
1
0
−1
−2

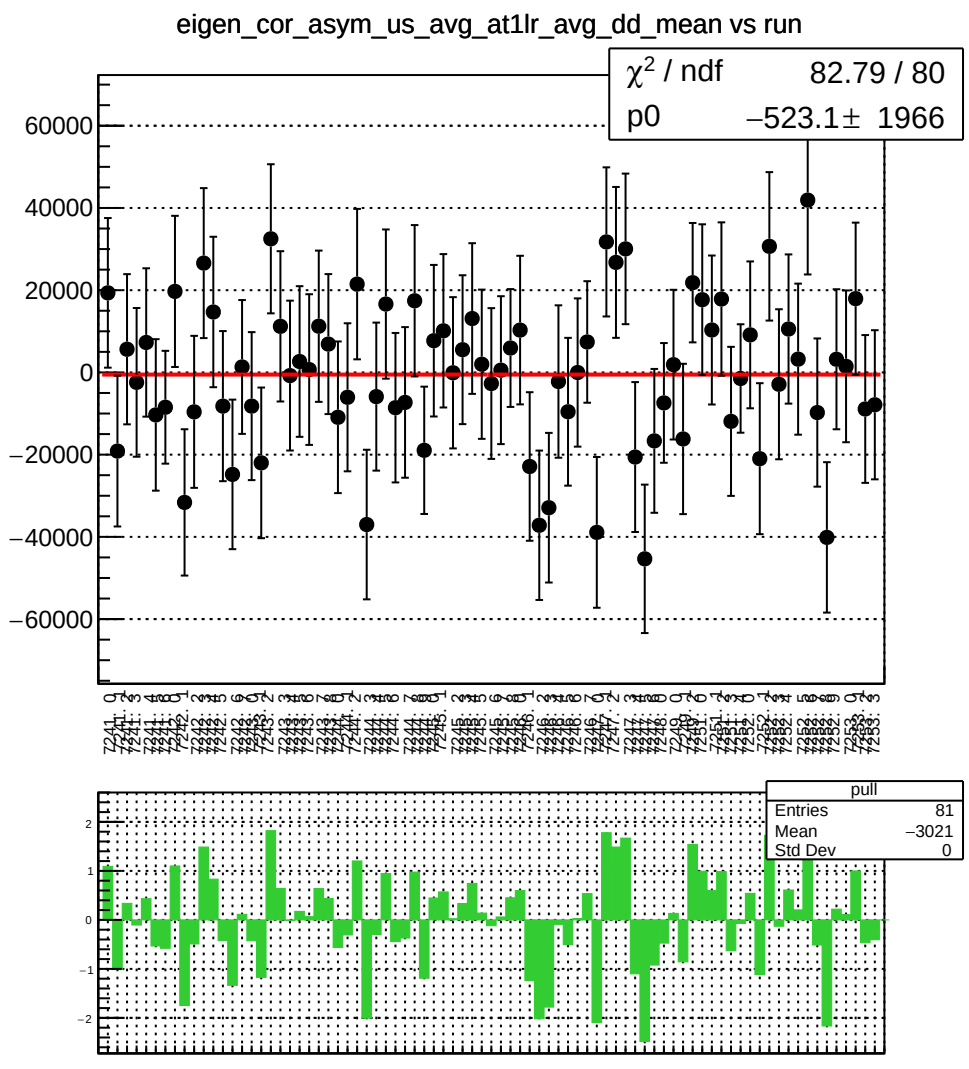

pull1D
Entries 81
Mean −0.0001973
Std Dev 1.011
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

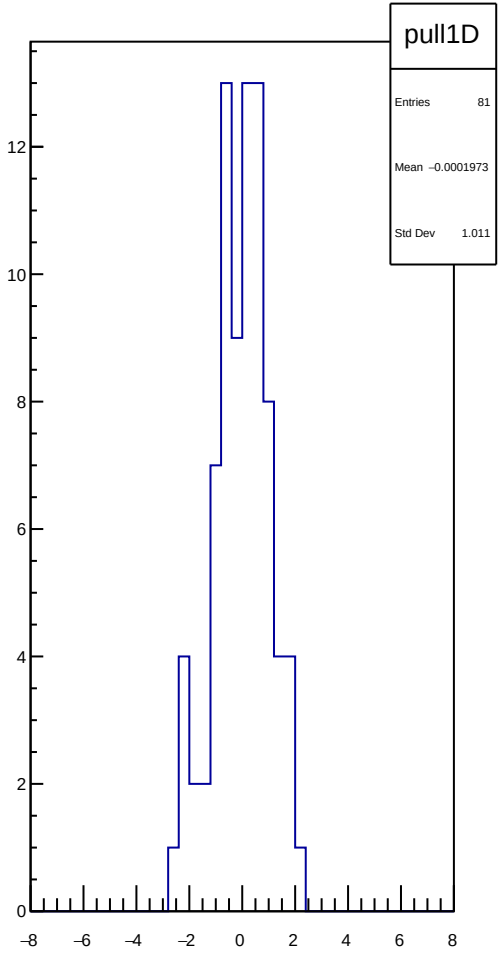

cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 120.3 / 80
p0 1730 ± 1.39
1780
1760
1740
1720
1700
1680

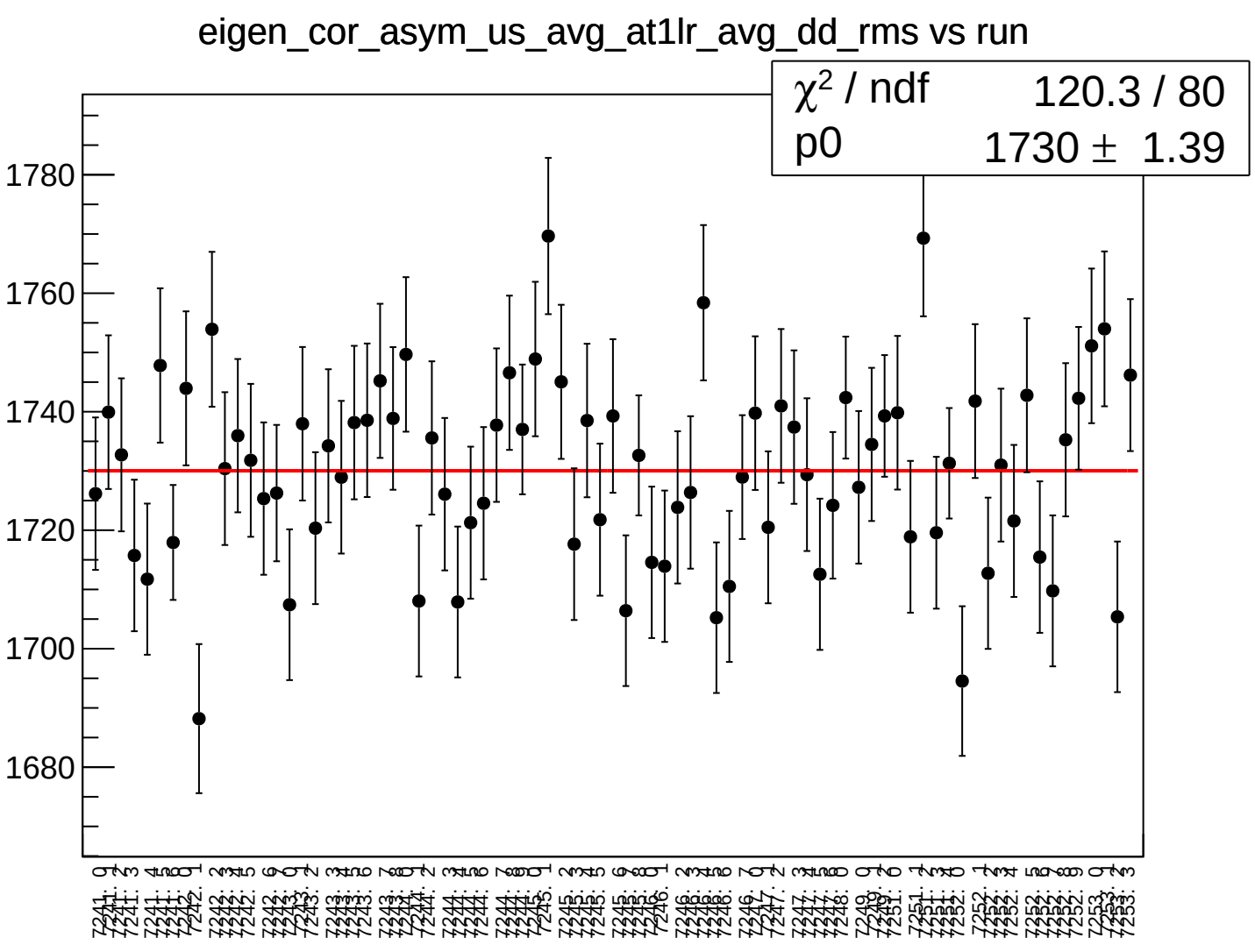

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 90.28 / 80
p0 −54.08 ± 890.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean −117.3
Std Dev 0
2
1
0
−1
−2

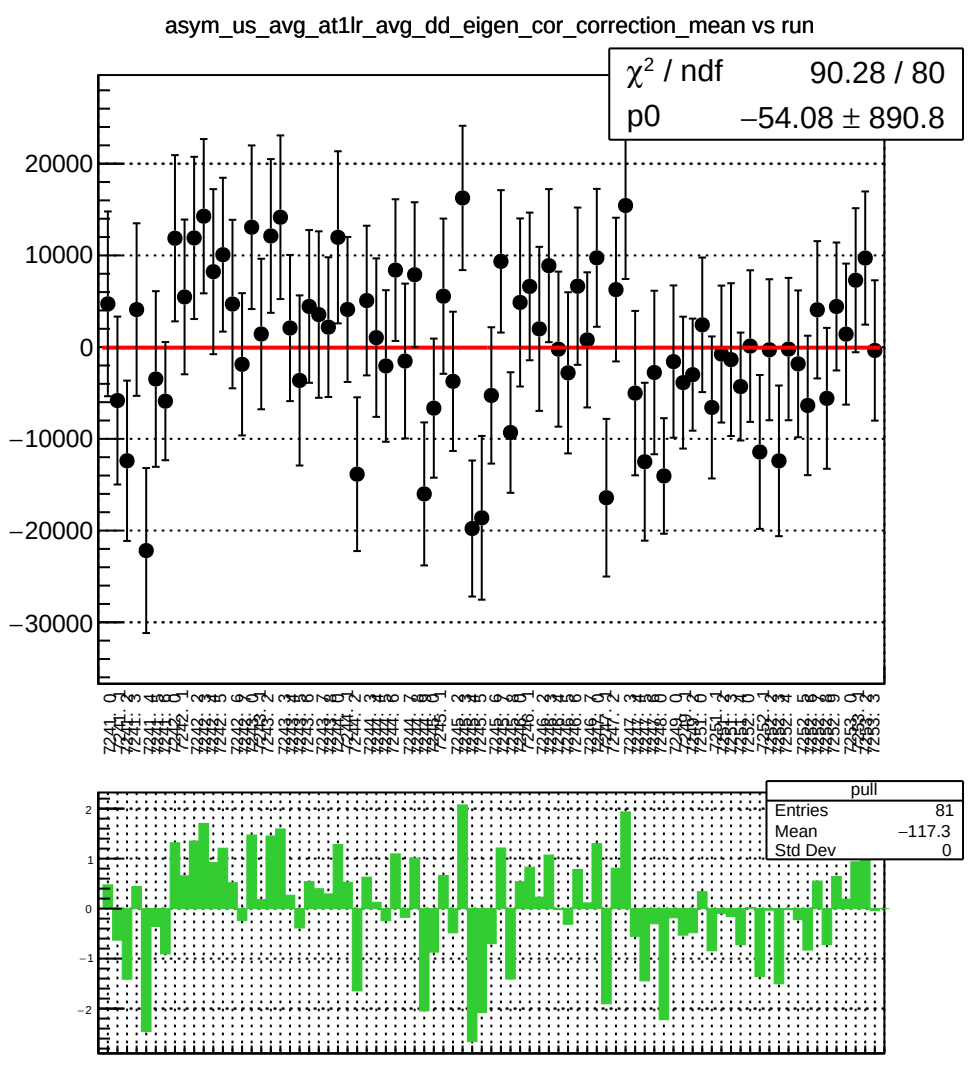

pull1D
Entries 81
Mean 0.02283
Std Dev 1.055
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

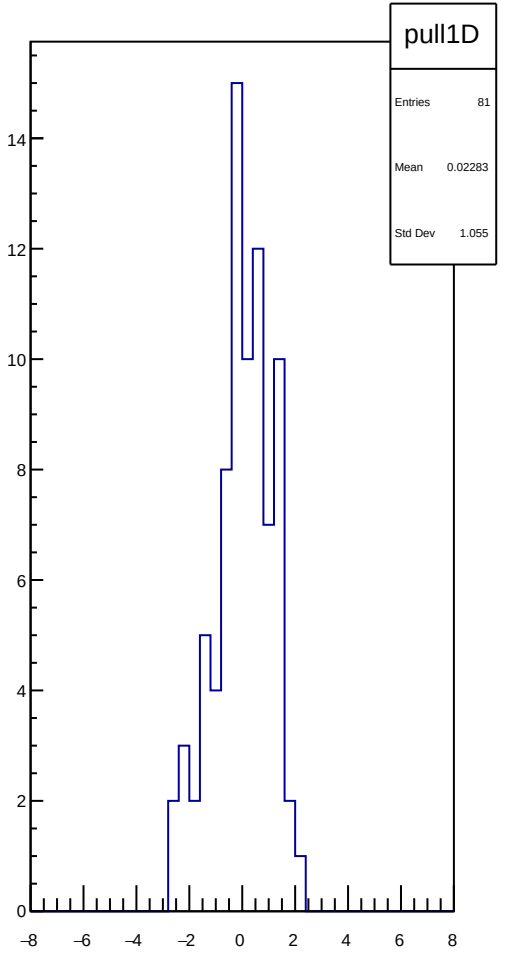

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ² / ndf 8265 / 80
p0 781.9 ± 0.6299
950
900
850
800
750
700
650

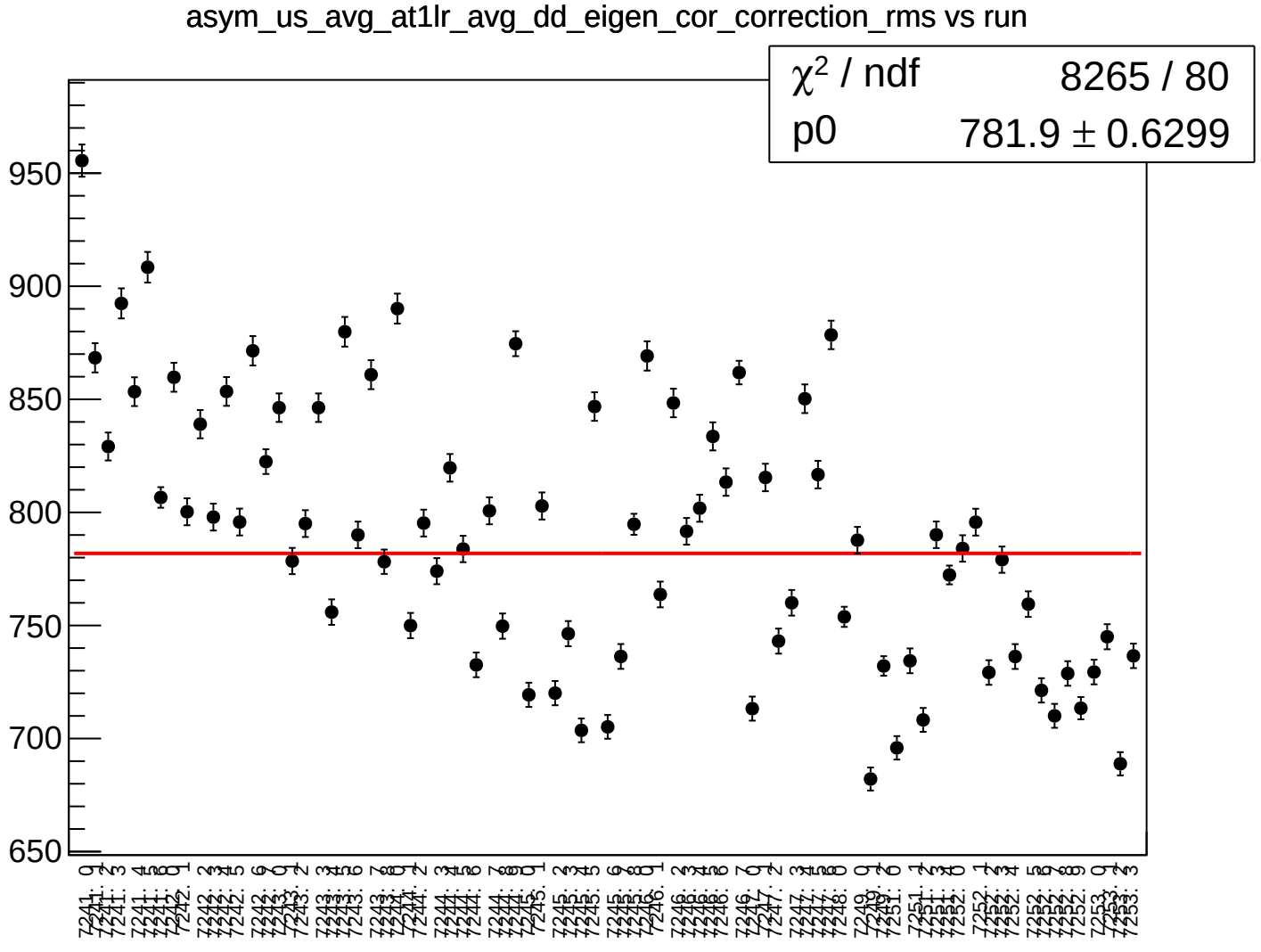

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 82.79 / 80
p0 −523.1± 1966
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −3021
Std Dev 0
2
1
0
−1
−2

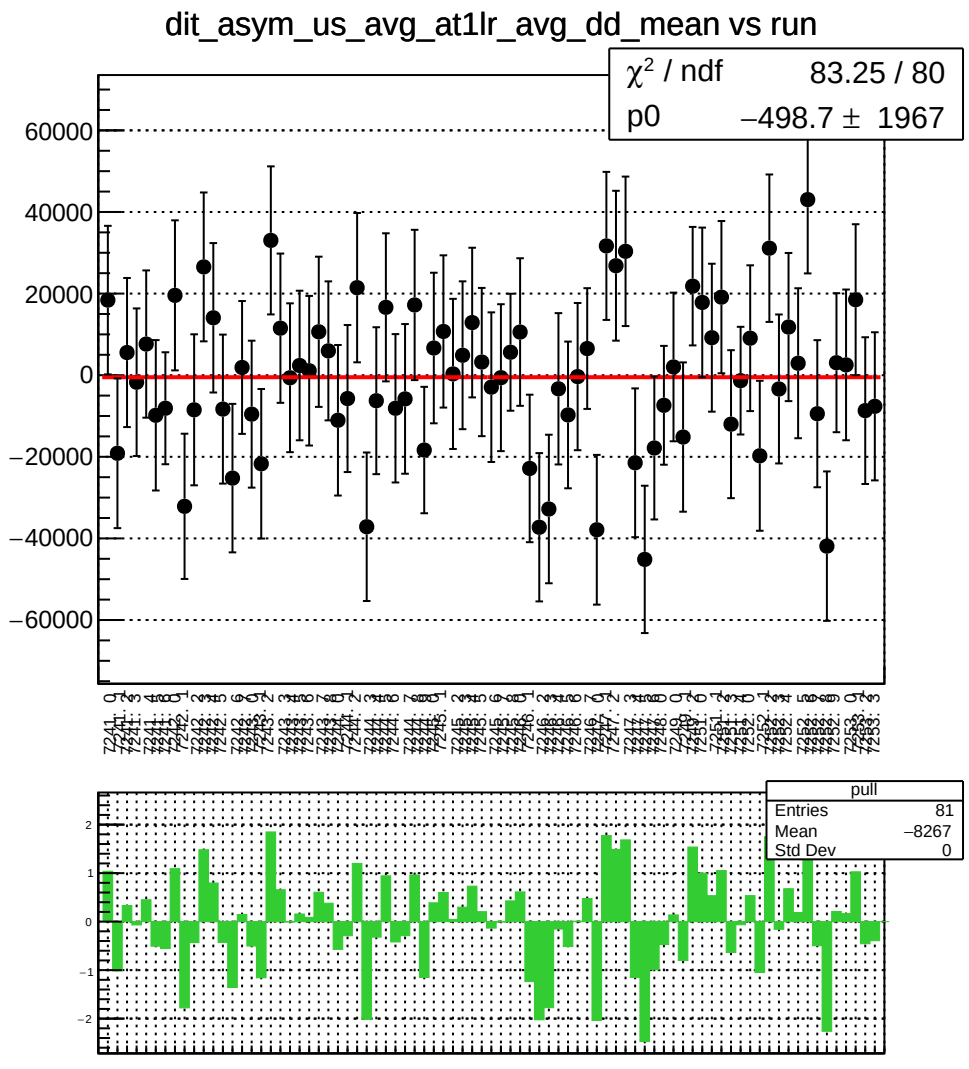

pull1D
Entries 81
Mean −0.0001973
Std Dev 1.011
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

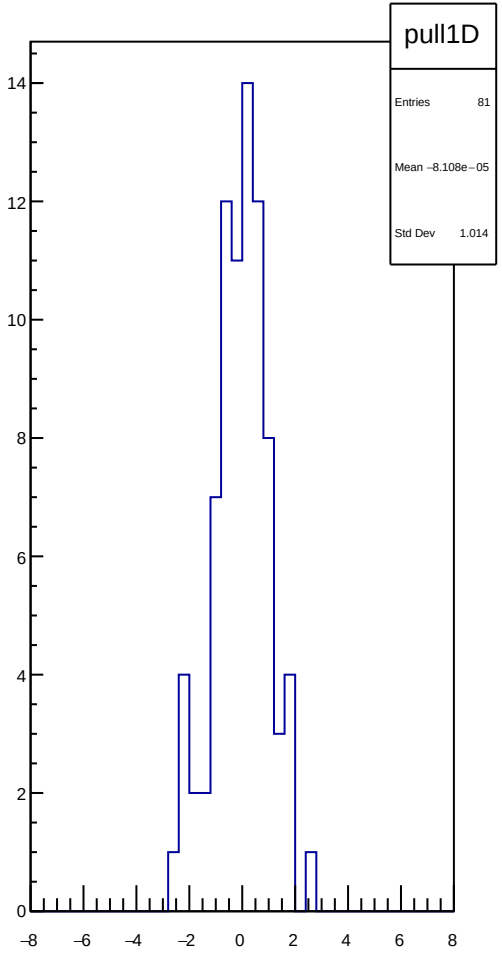

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 120.3 / 80
p0 1730 ± 1.39
1780
1760
1740
1720
1700
1680

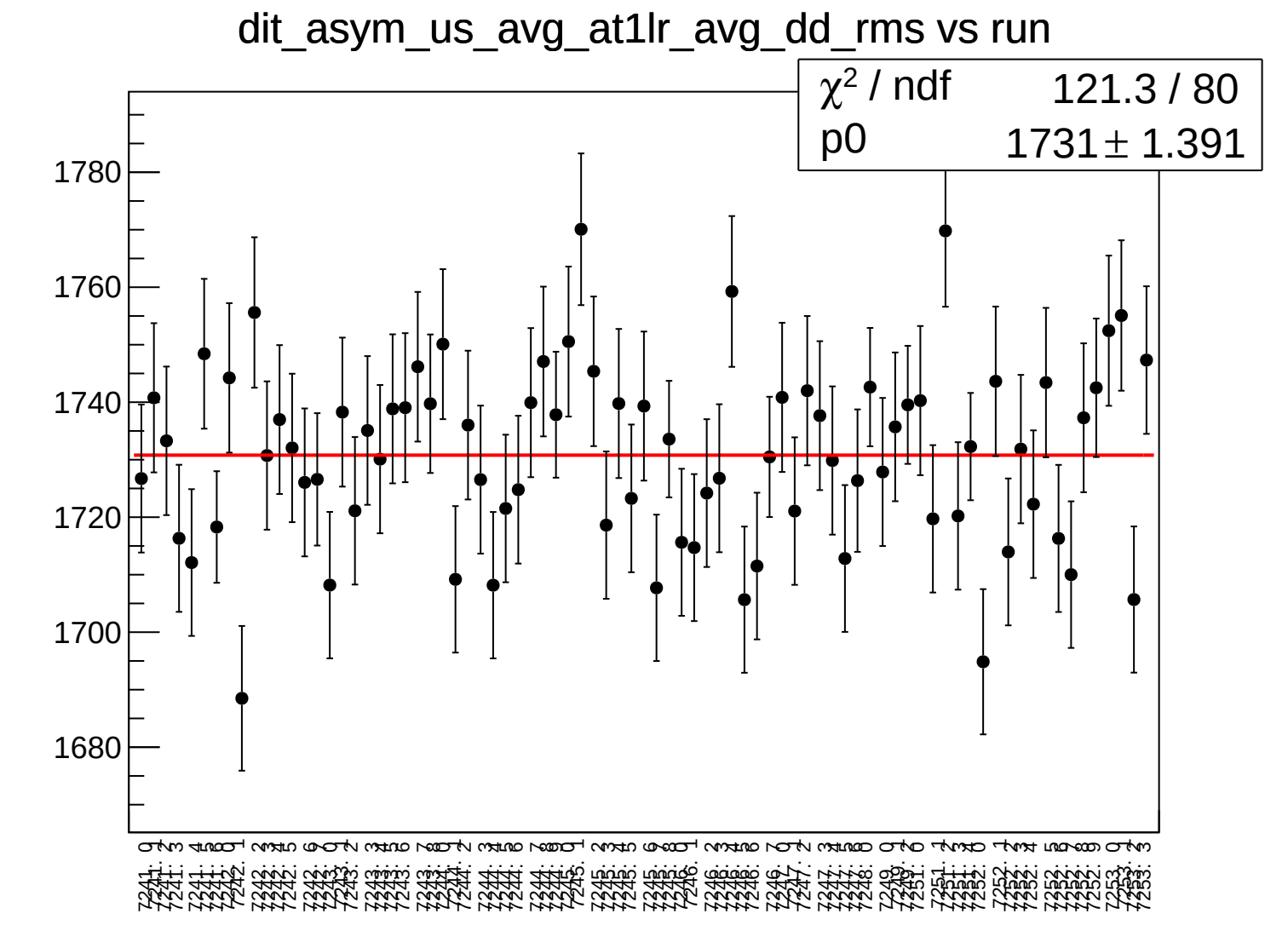

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 90.28 / 80
p0 −54.08 ± 890.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean −117.3
Std Dev 0
2
1
0
−1
−2

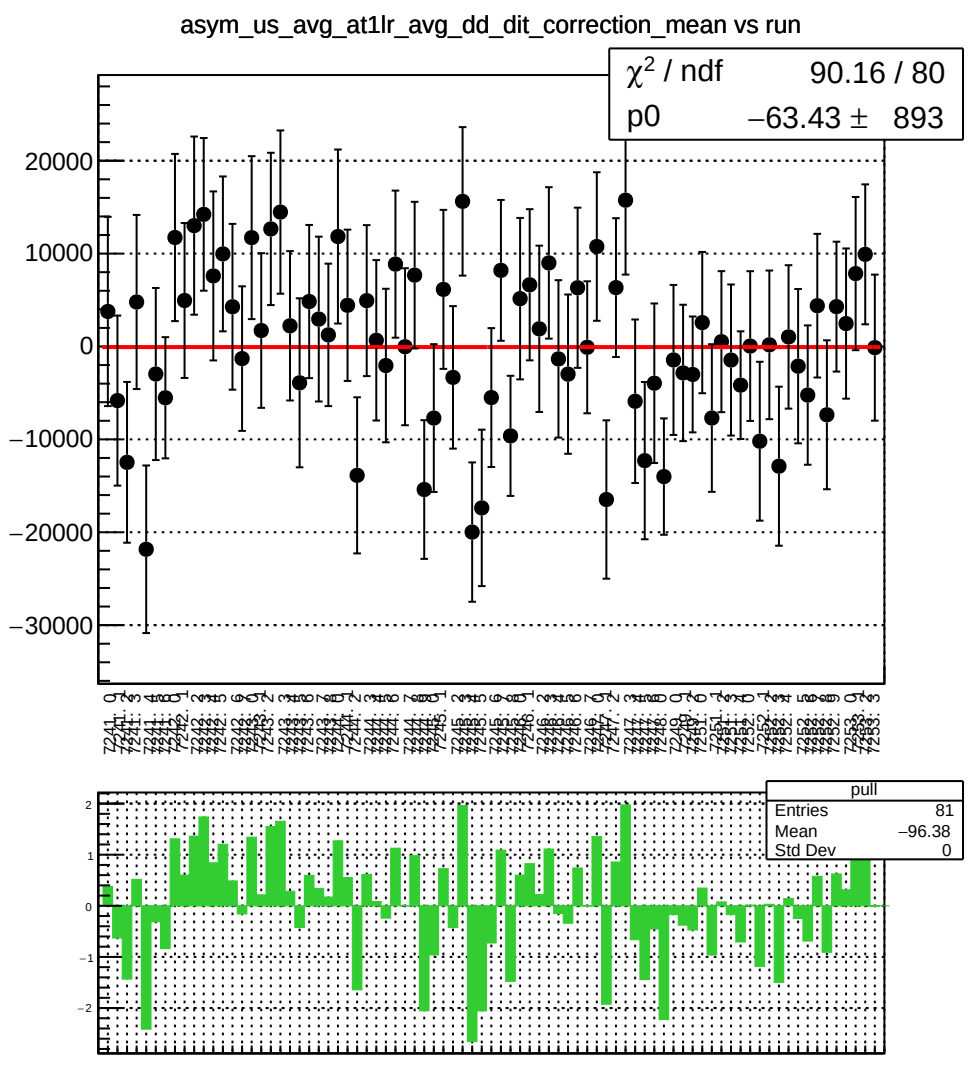

pull1D
Entries 81
Mean 0.02283
Std Dev 1.055
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

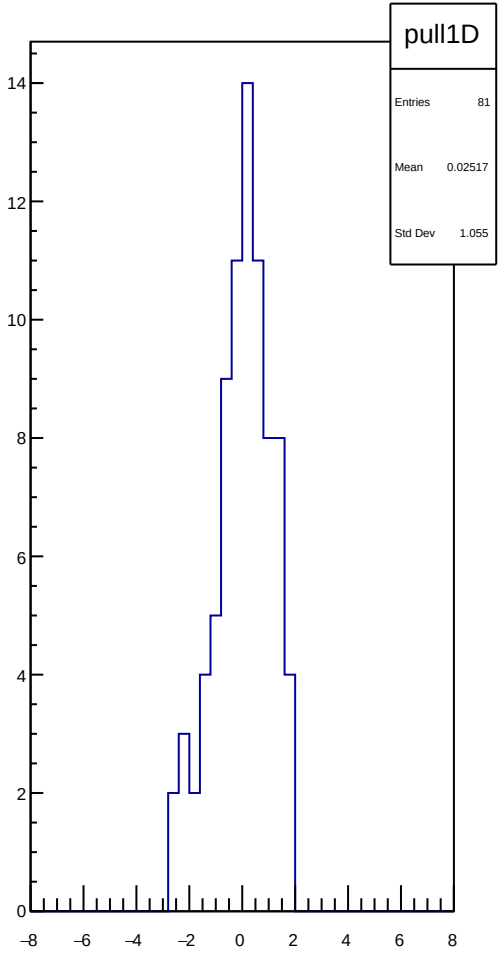

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 8265 / 80
p0 781.9 ± 0.6299
950
900
850
800
750
700
650

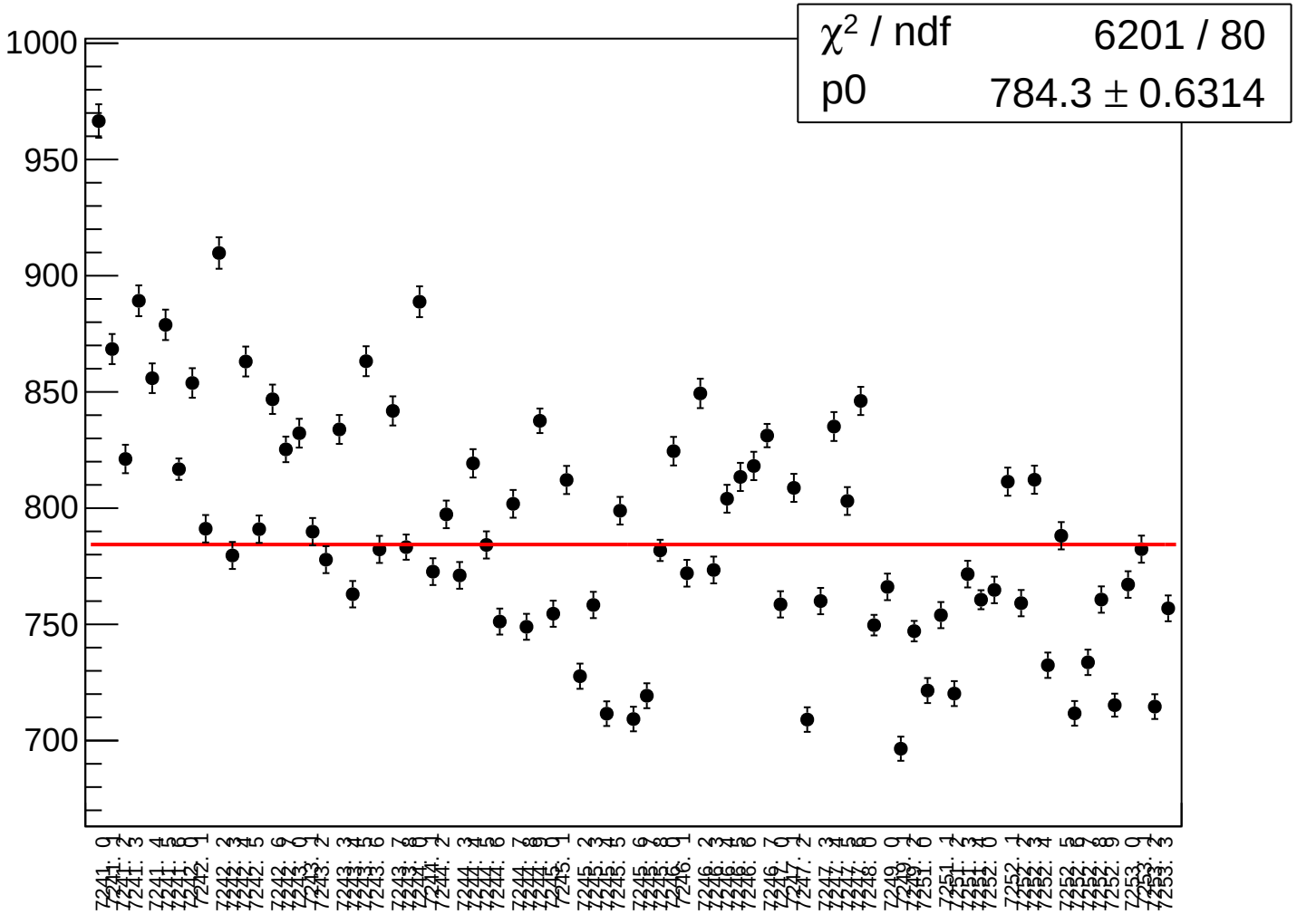

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 83.25 / 80
p0 −498.7 ± 1967
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −8267
Std Dev 0
2
1
0
−1
−2

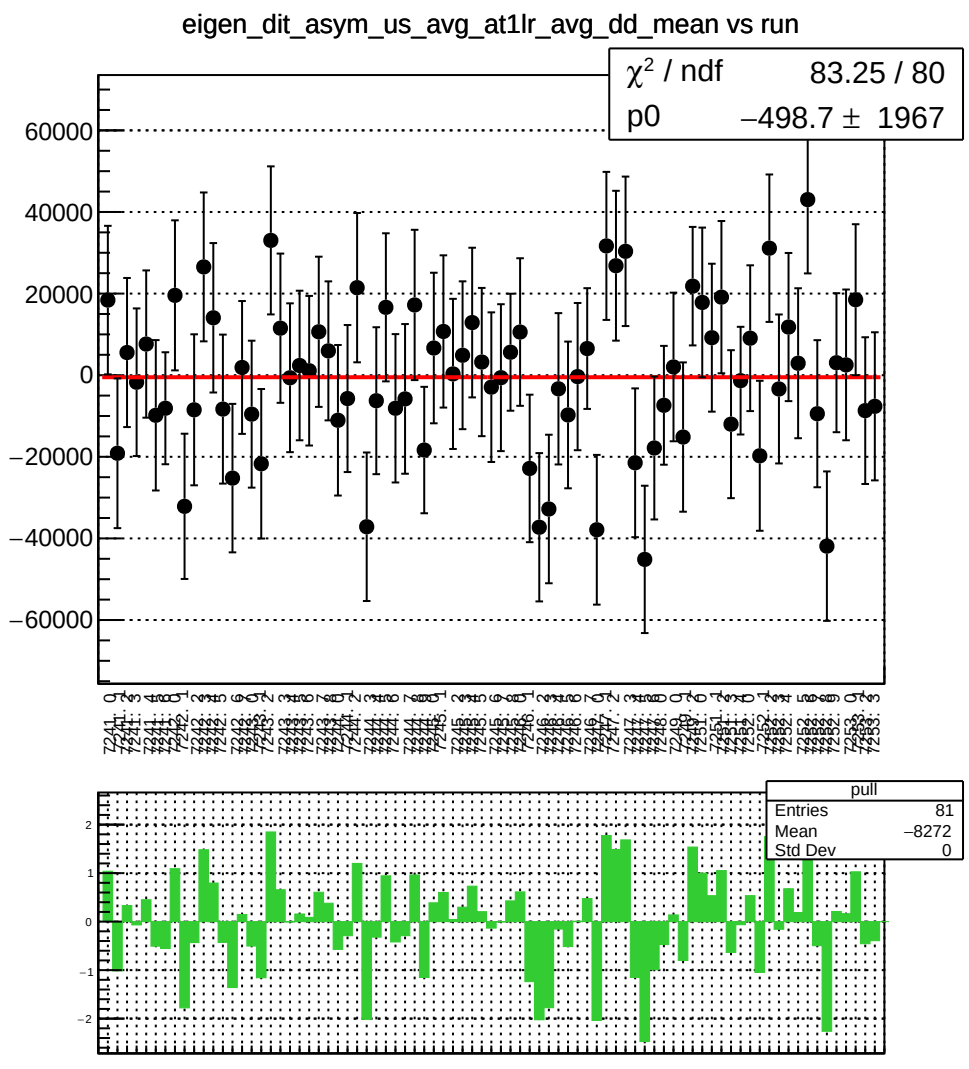

pull1D
Entries 81
Mean −8.108e−05
Std Dev 1.014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

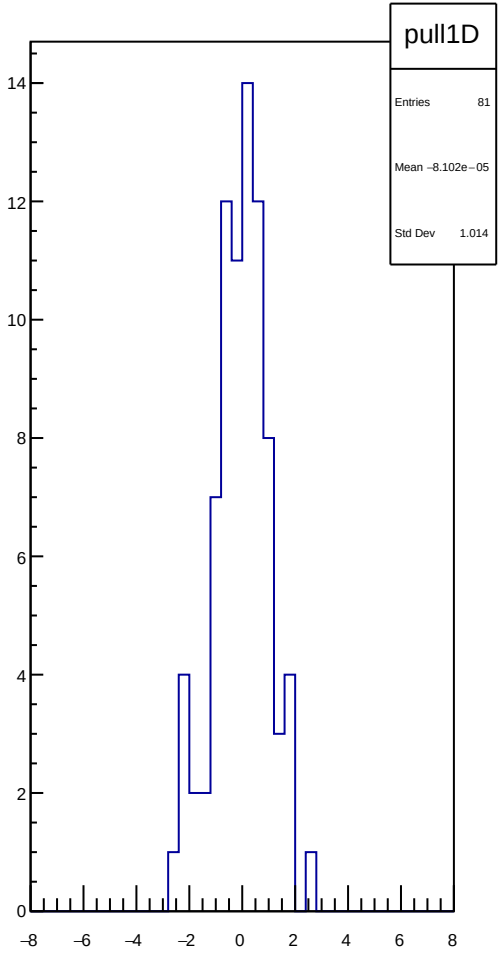

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 121.3 / 80
p0 1731 ± 1.391
1780
1760
1740
1720
1700
1680

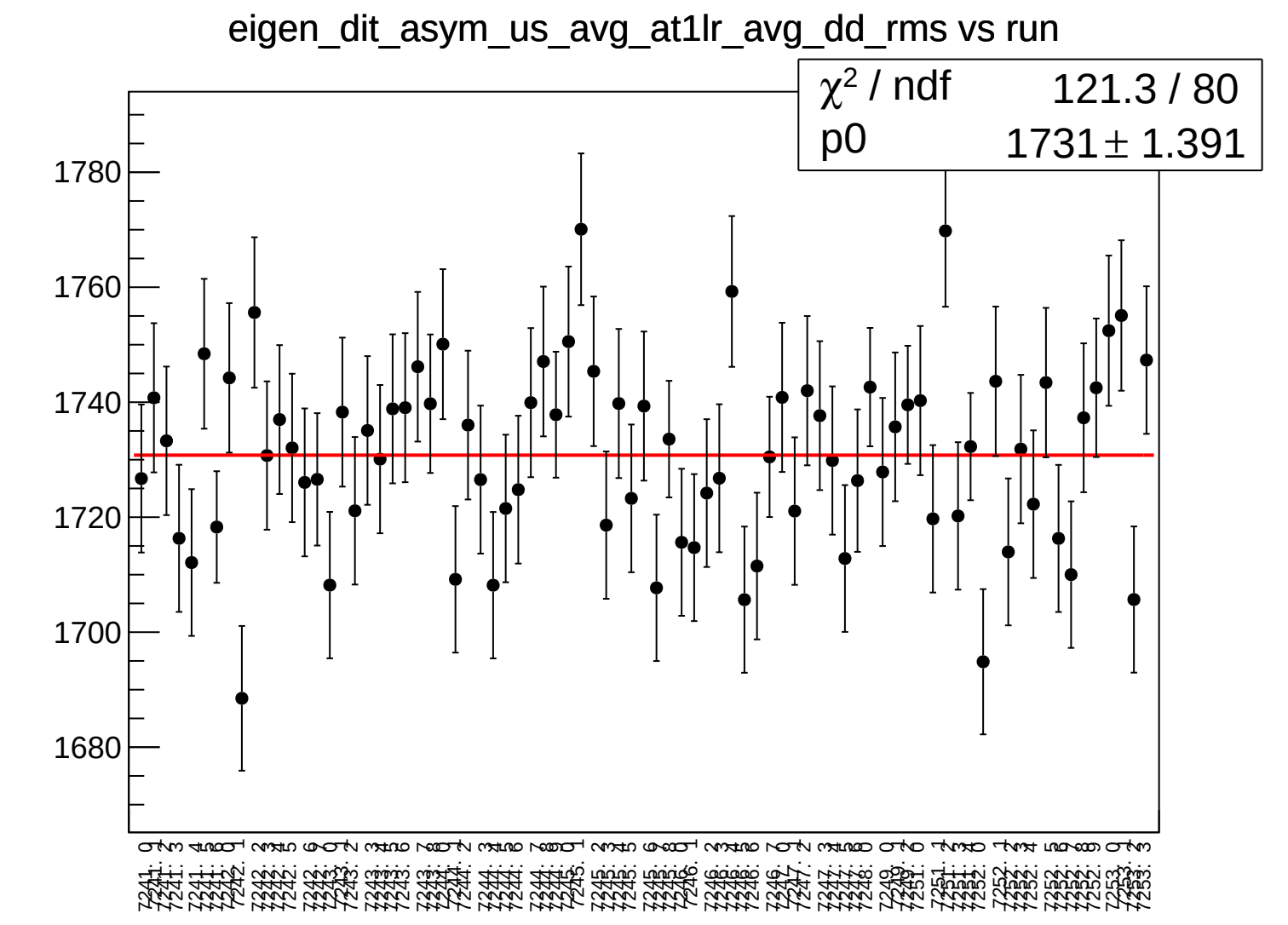

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 90.16 / 80
p0 −63.43 ± 893
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean −96.38
Std Dev 0
2
1
0
−1
−2

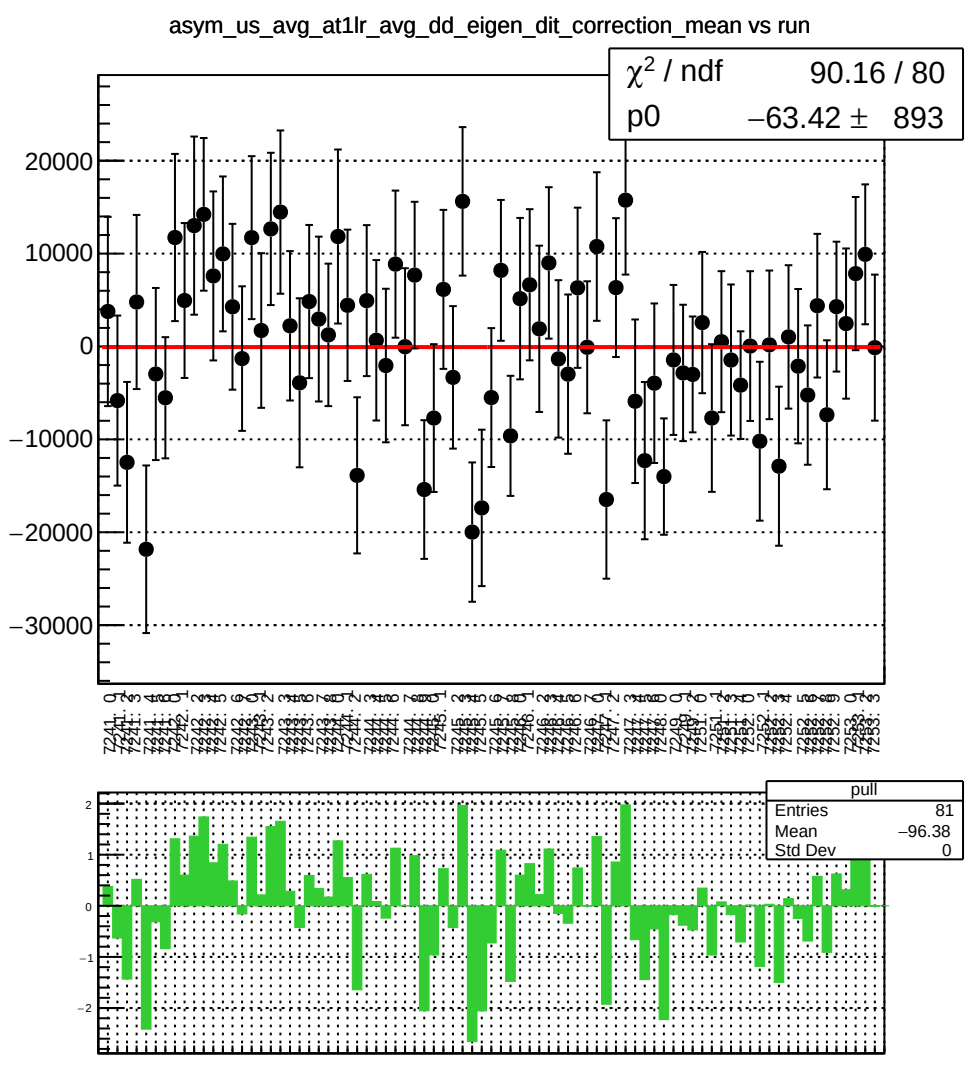

pull1D
Entries 81
Mean 0.02517
Std Dev 1.055
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

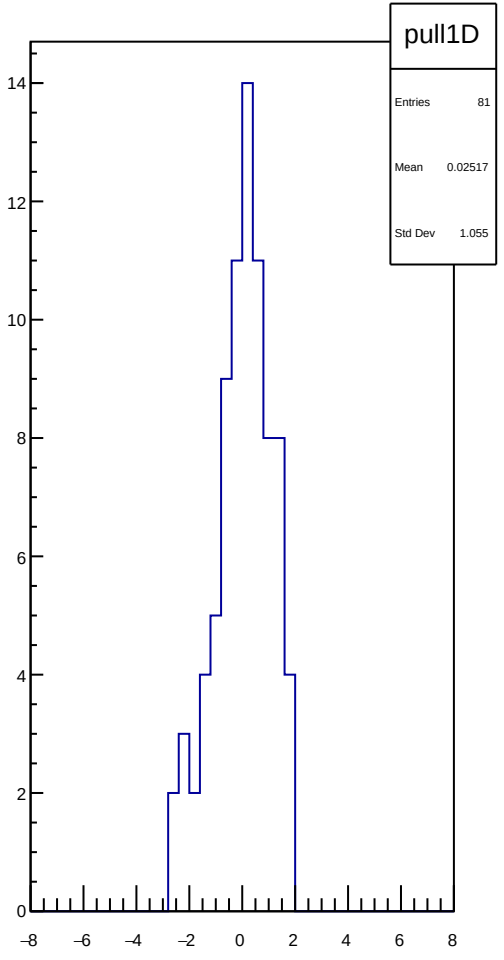

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 6201 / 80
p0 784.3 ± 0.6314
1000
950
900
850
800
750
700

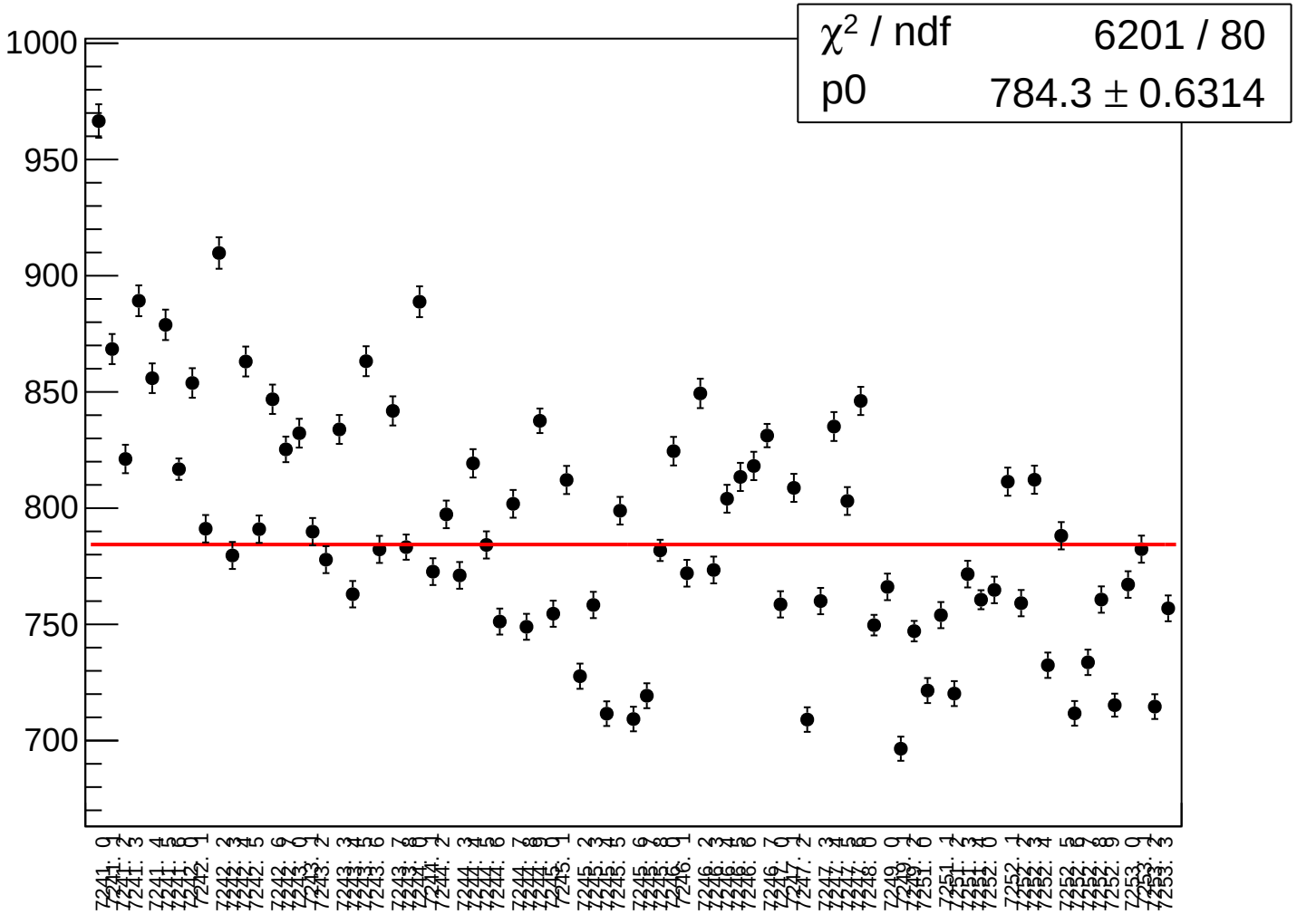

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 83.25 / 80
p0 −498.7 ± 1967
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −8272
Std Dev 0
2
1
0
−1
−2

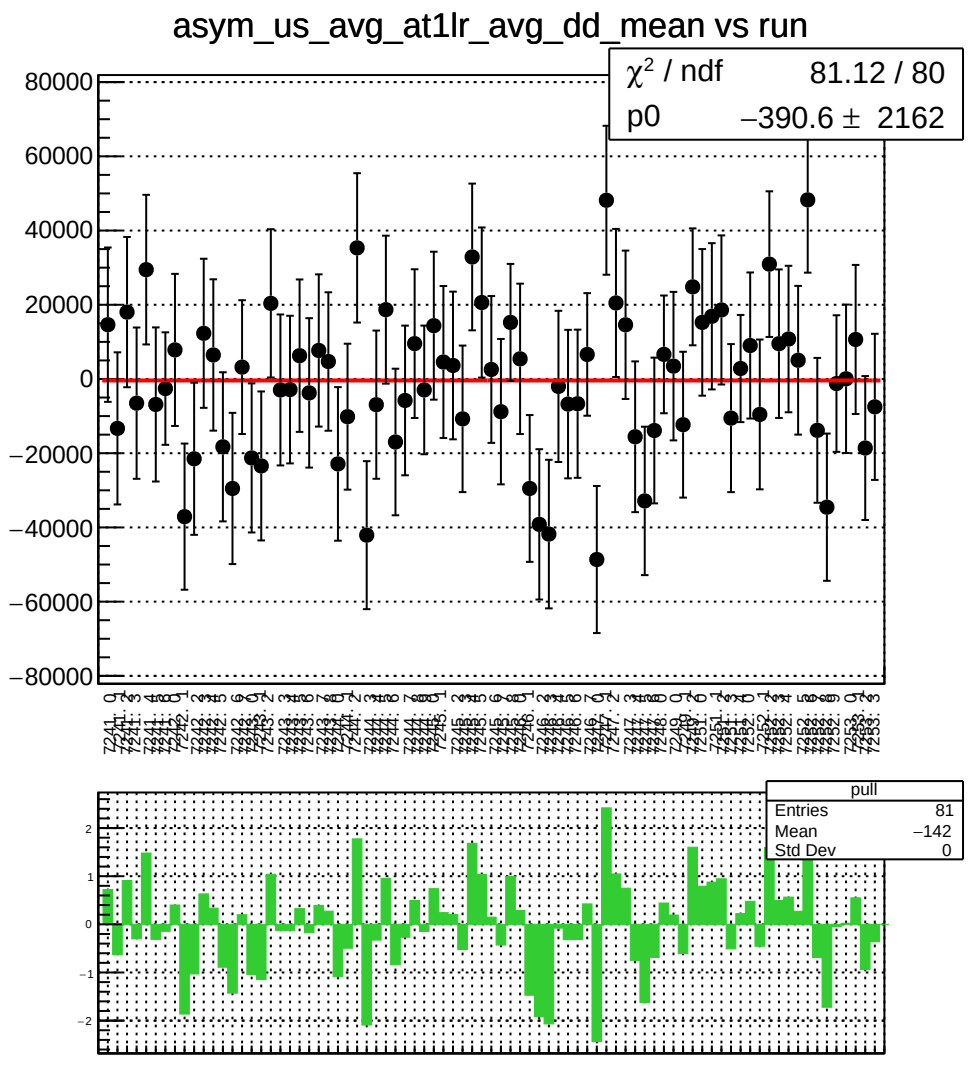

pull1D
Entries 81
Mean −8.102e−05
Std Dev 1.014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

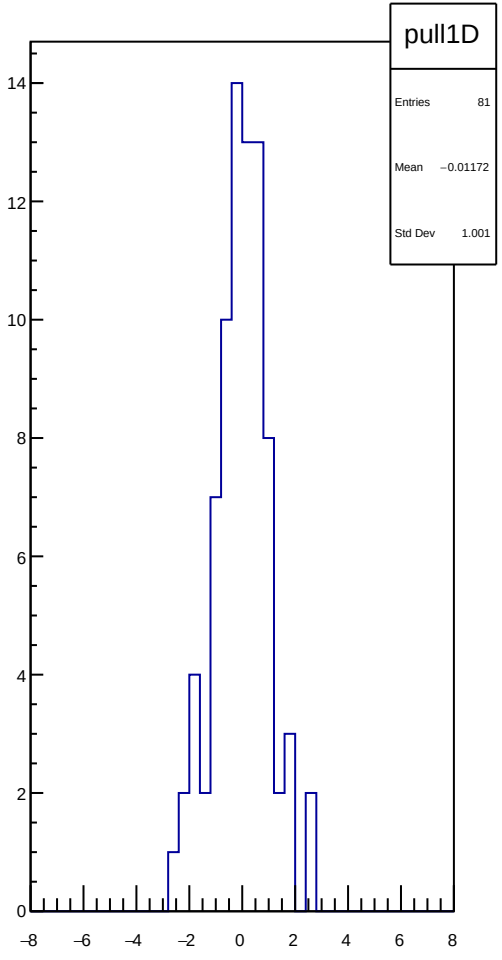

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 121.3 / 80
p0 1731 ± 1.391
1780
1760
1740
1720
1700
1680

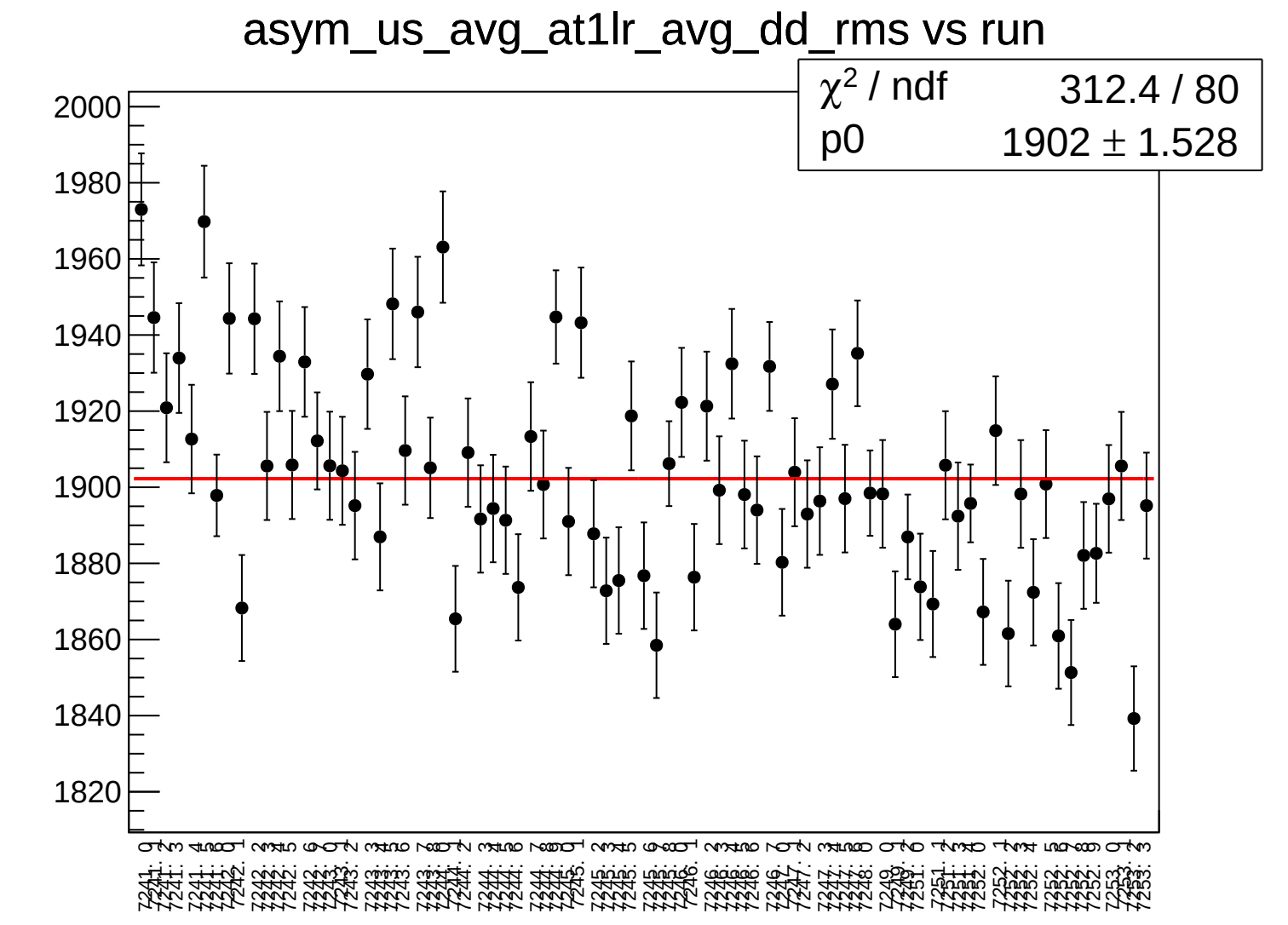

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 90.16 / 80
p0 −63.42 ± 893
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean −96.38
Std Dev 0
2
1
0
−1
−2

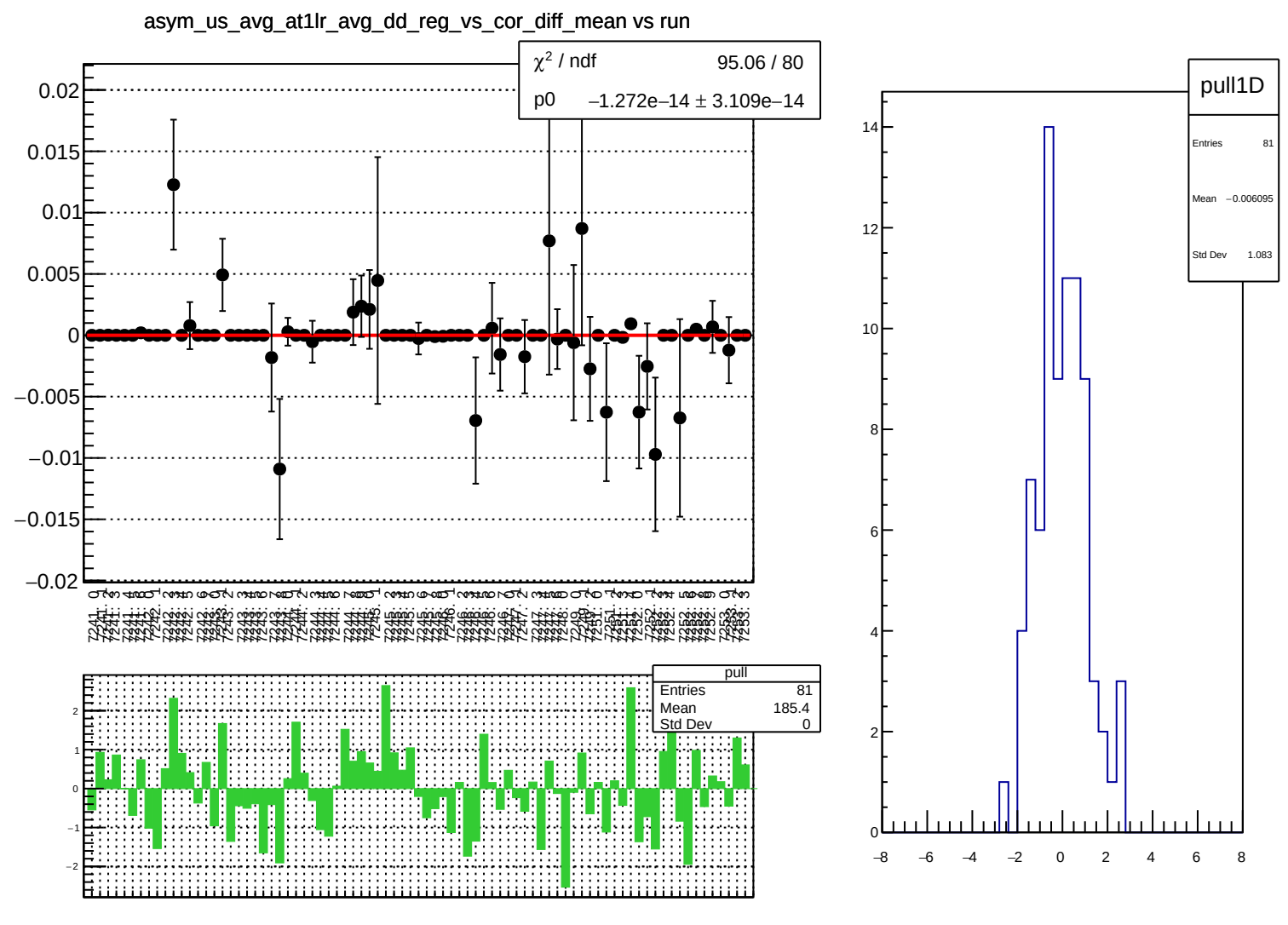

pull1D
Entries 81
Mean 0.02517
Std Dev 1.055
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

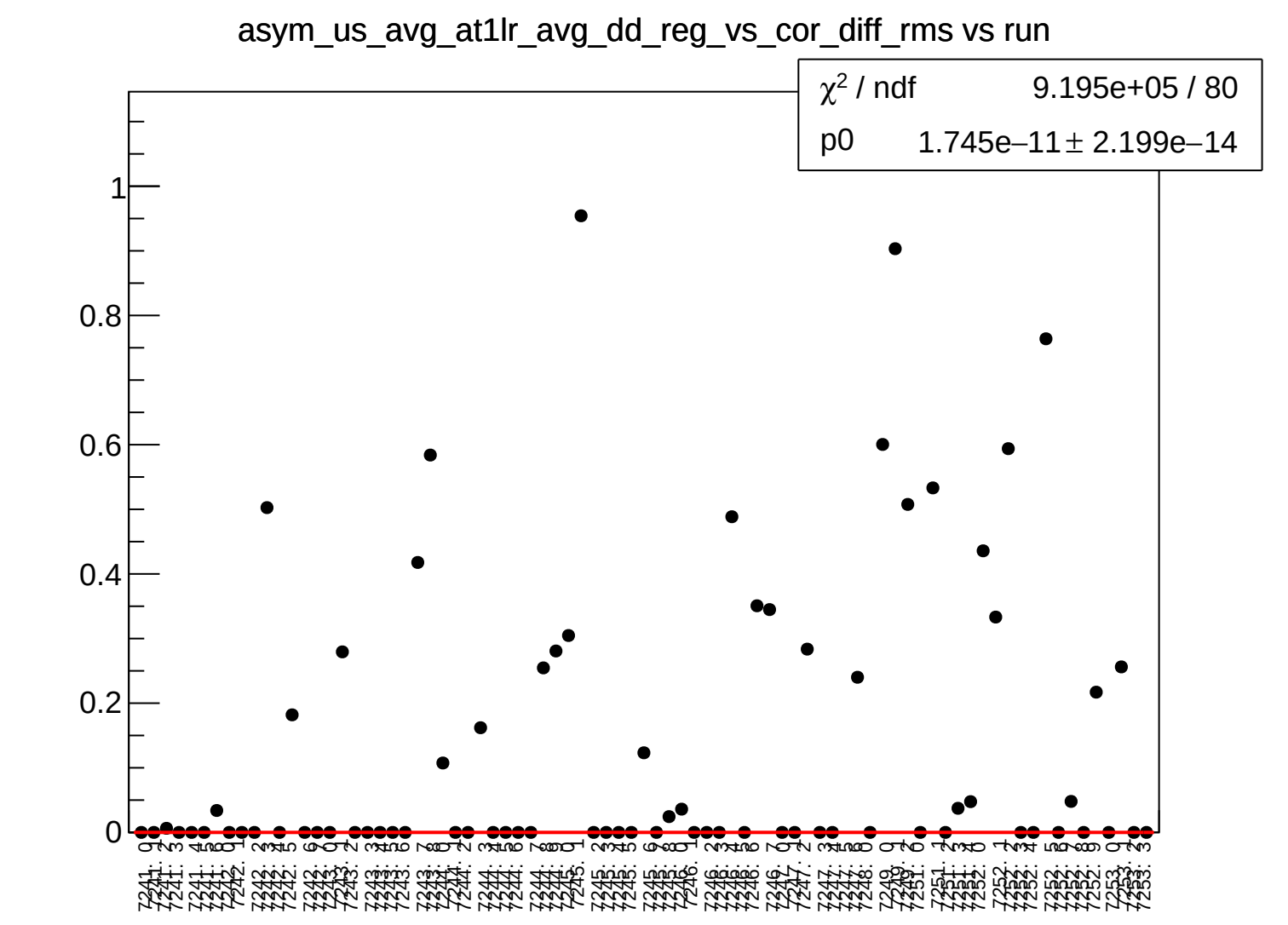

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 6201 / 80
p0 784.3 ± 0.6314
1000
950
900
850
800
750
700

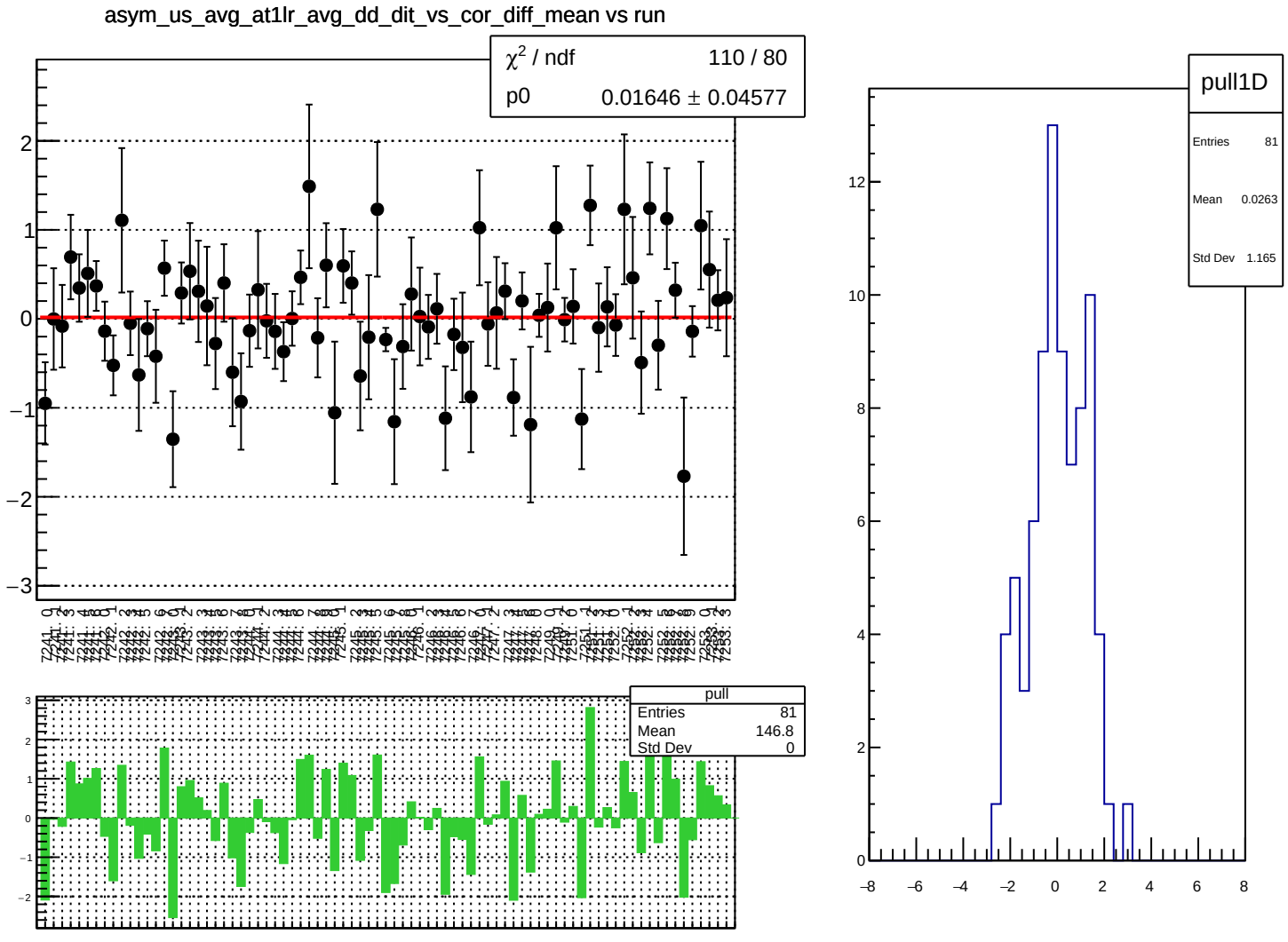

asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 81.12 / 80
p0 −390.6 ± 2162
pull
Entries 81
Mean −142
Std Dev 0

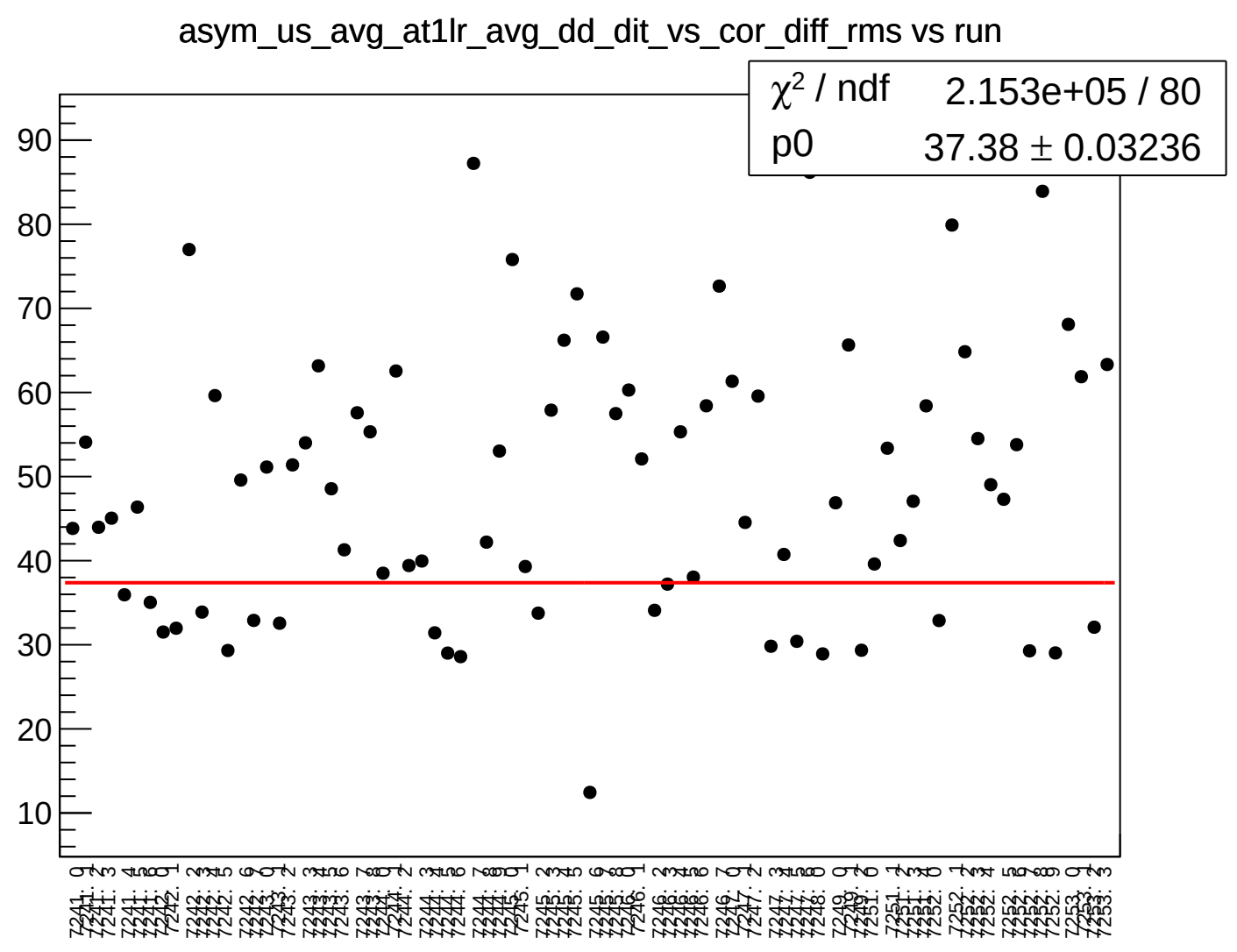

pull1D
Entries 81
Mean −0.01172
Std Dev 1.001

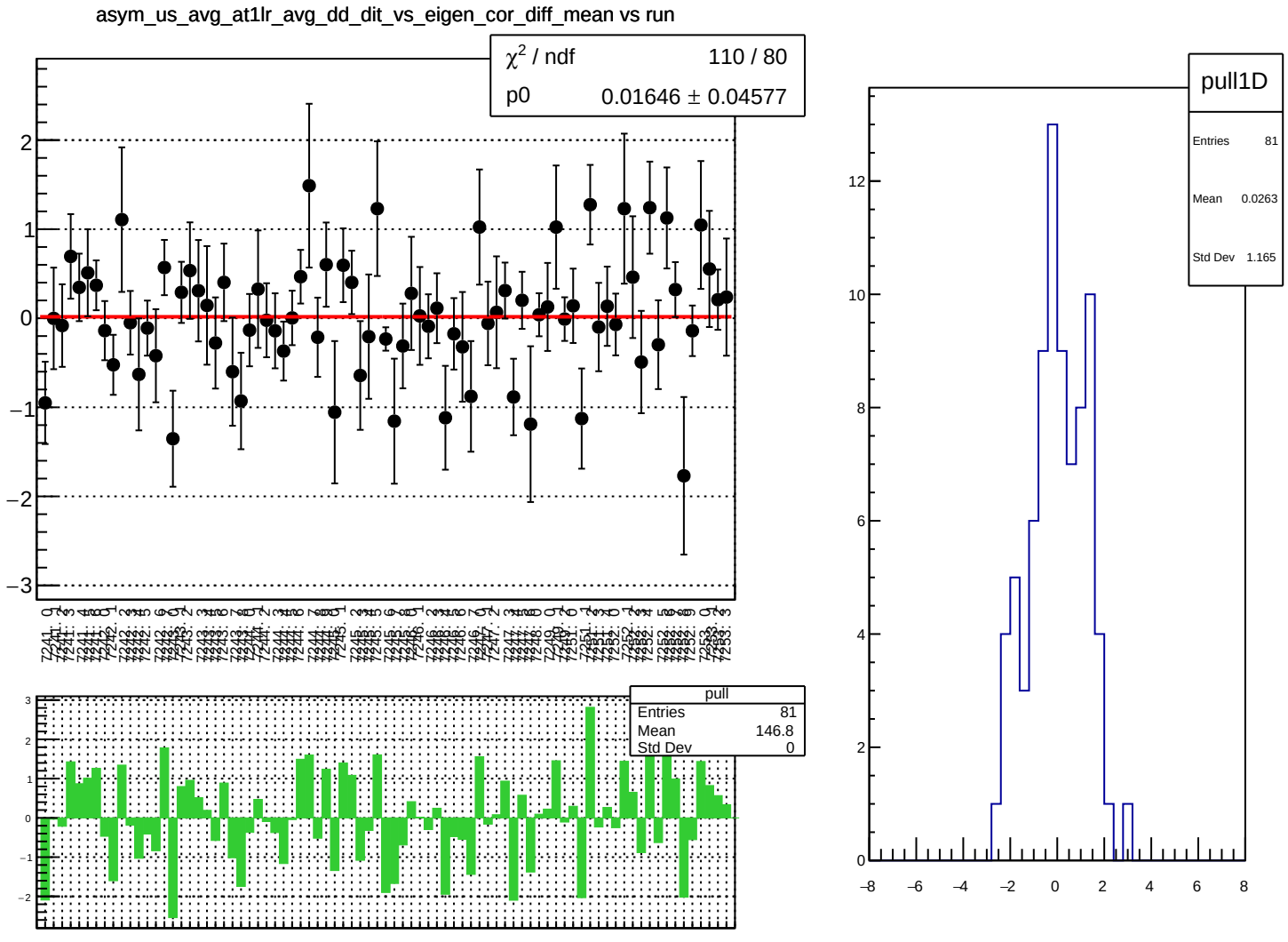

asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 312.4 / 80
p0 1902 ± 1.528
2000
1980
1960
1940
1920
1900
1880
1860
1840
1820

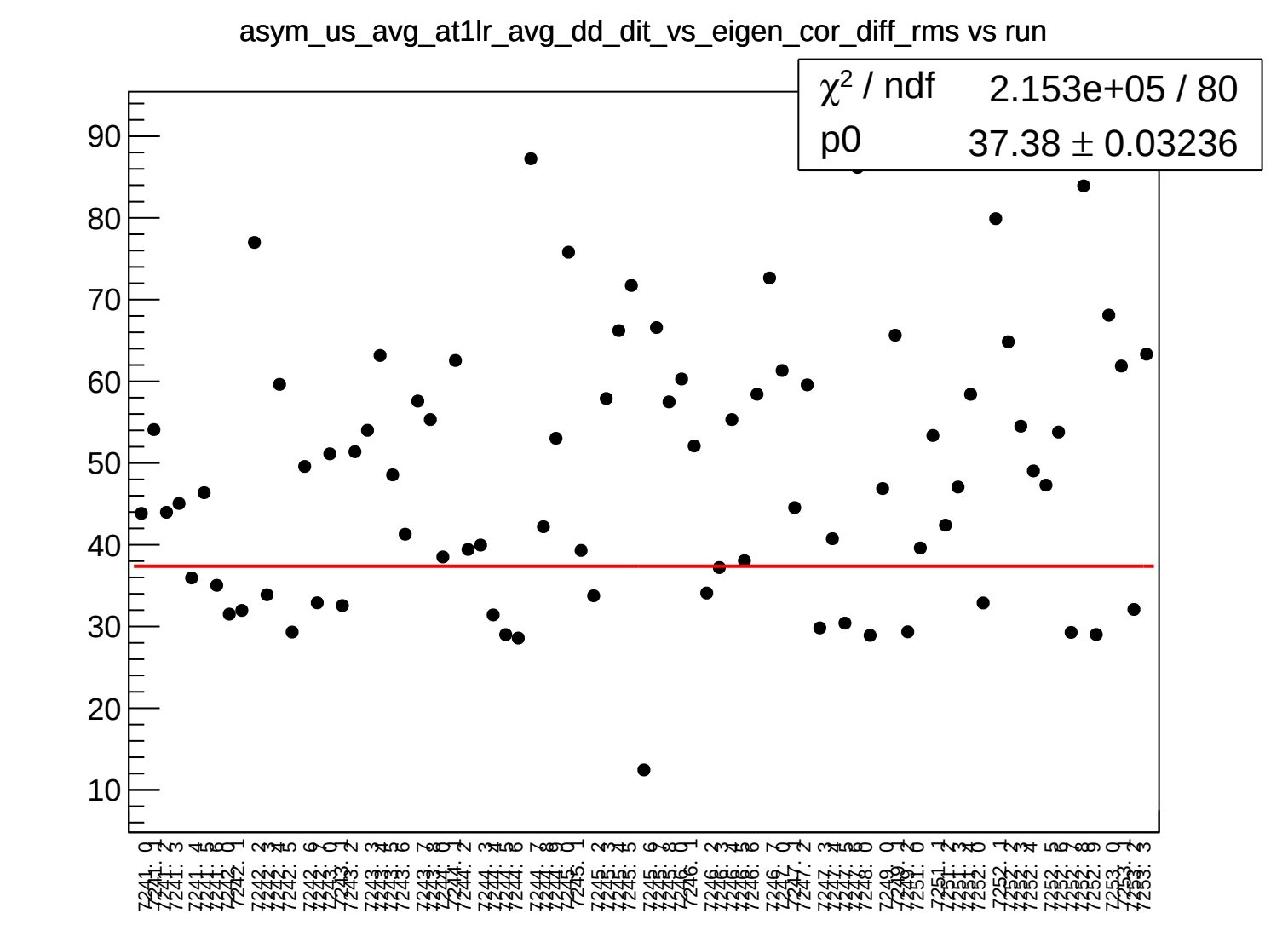

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 95.06 / 80
p0 −1.272e−14 ± 3.109e−14
pull
Entries 81
Mean 185.4
Std Dev 0
pull1D
Entries 81
Mean −0.006095
Std Dev 1.083

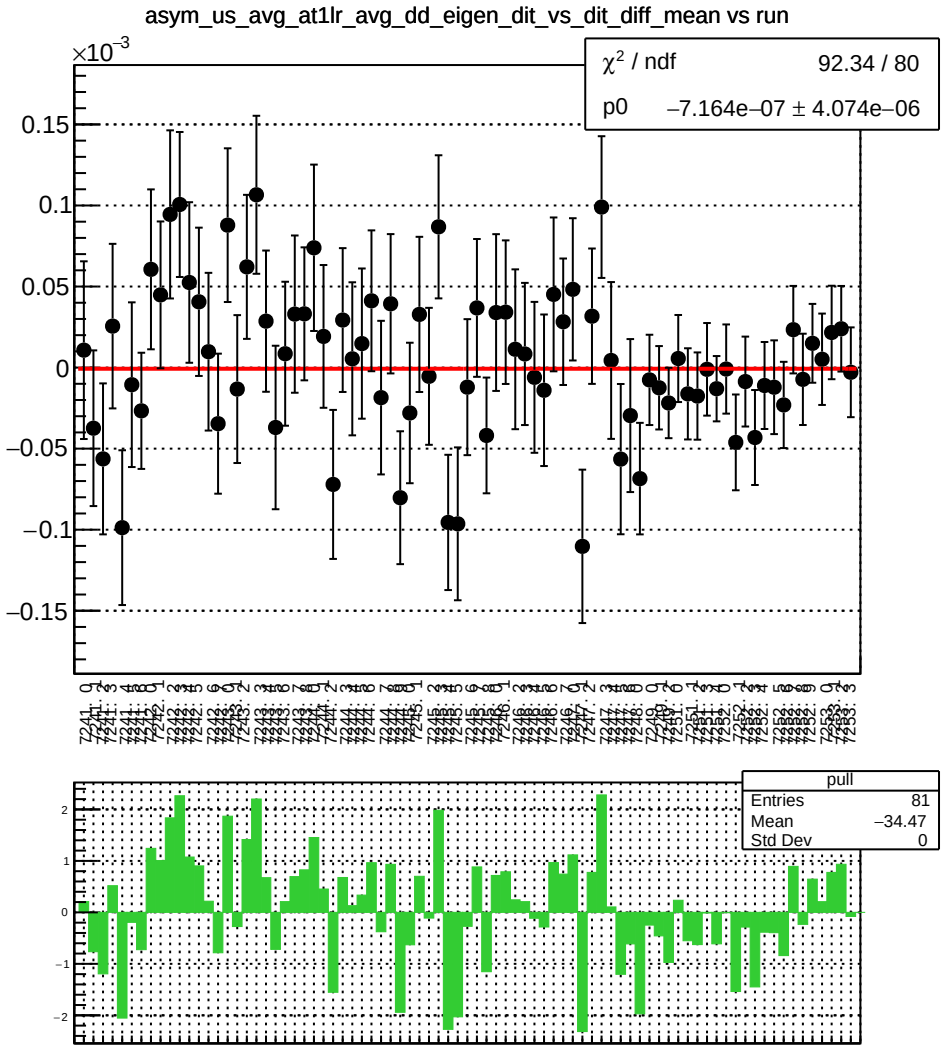

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.195e+05 / 80
p0 1.745e−11 ± 2.199e−14
1
0.8
0.6
0.4
0.2
0

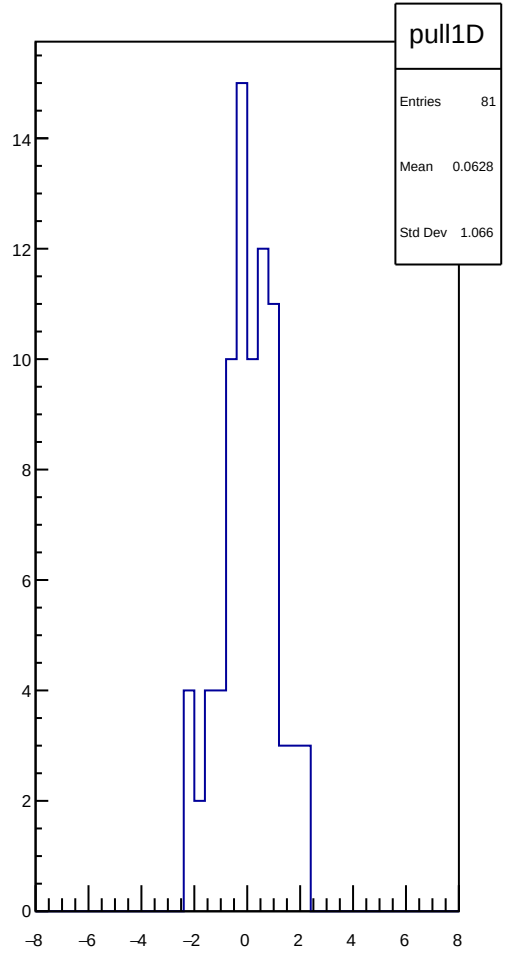

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 110 / 80
p0 0.01646 ± 0.04577
pull
Entries 81
Mean 146.8
Std Dev 0
pull1D
Entries 81
Mean 0.0263
Std Dev 1.165

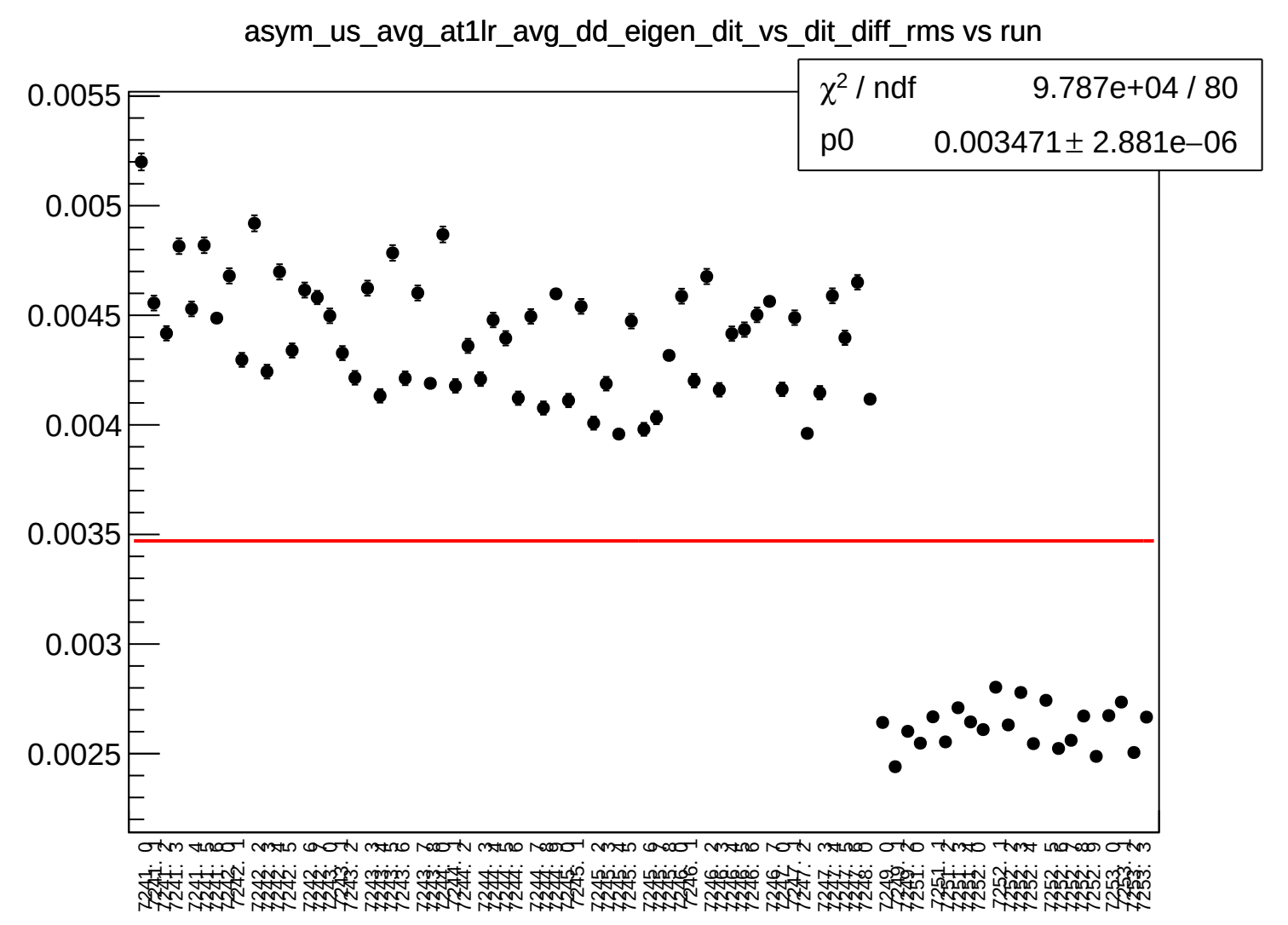

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.153e+05 / 80
p0 37.38 ± 0.03236
90
80
70
60
50
40
30
20
10

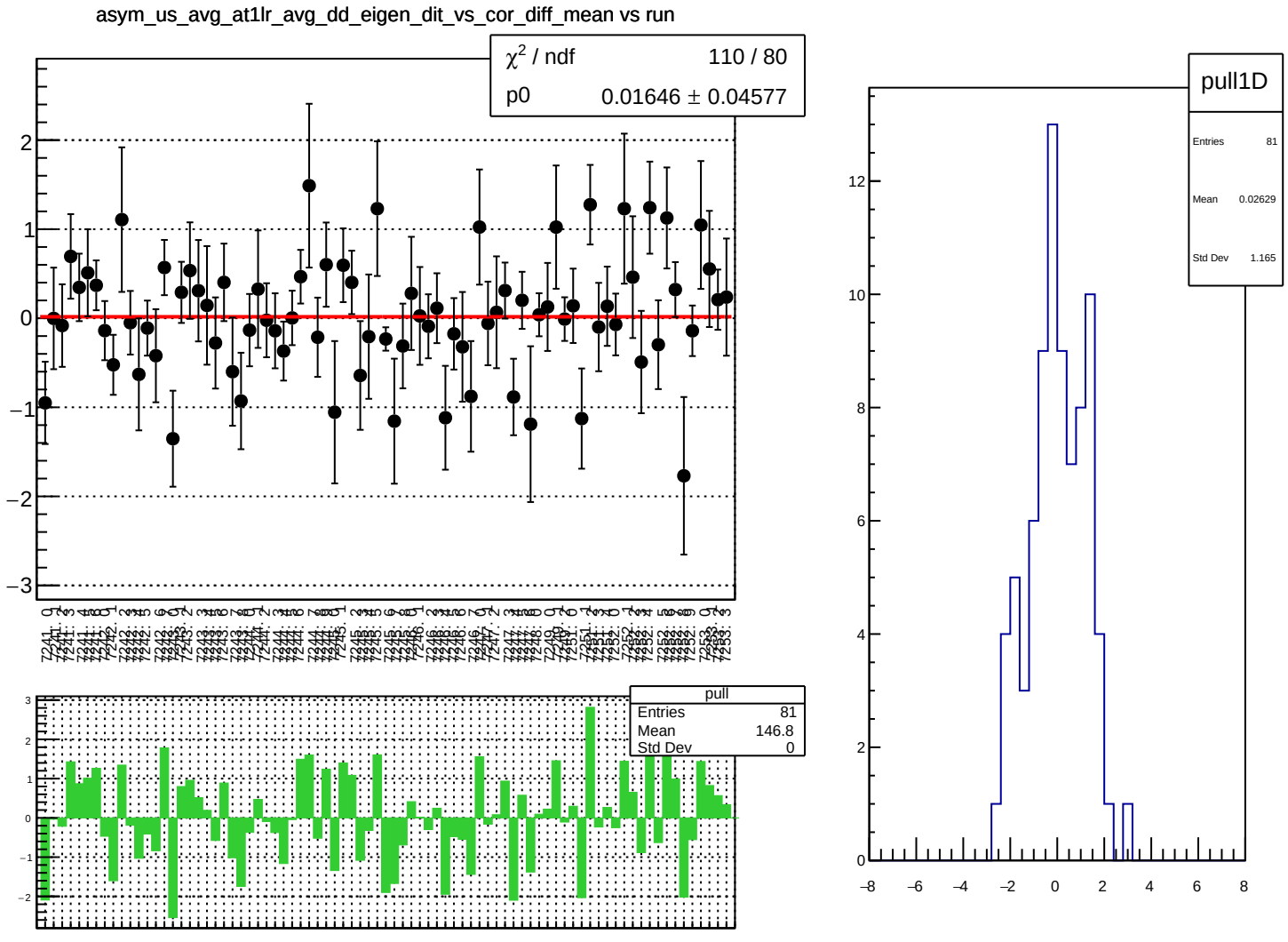

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110 / 80
p0 0.01646 ± 0.04577
pull
Entries 81
Mean 146.8
Std Dev 0
pull1D
Entries 81
Mean 0.0263
Std Dev 1.165

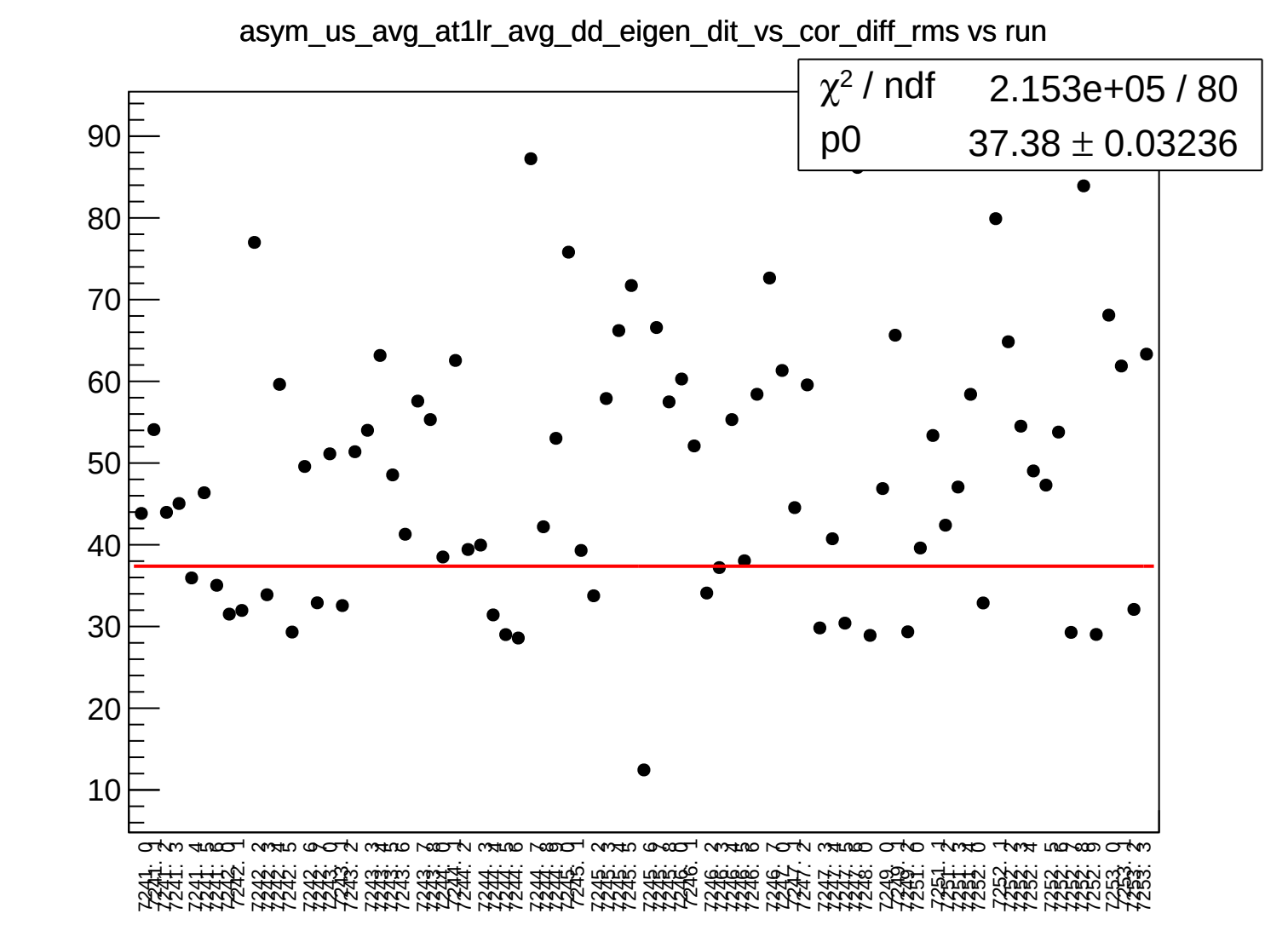

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.153e+05 / 80
p0 37.38 ± 0.03236
90
80
70
60
50
40
30
20
10

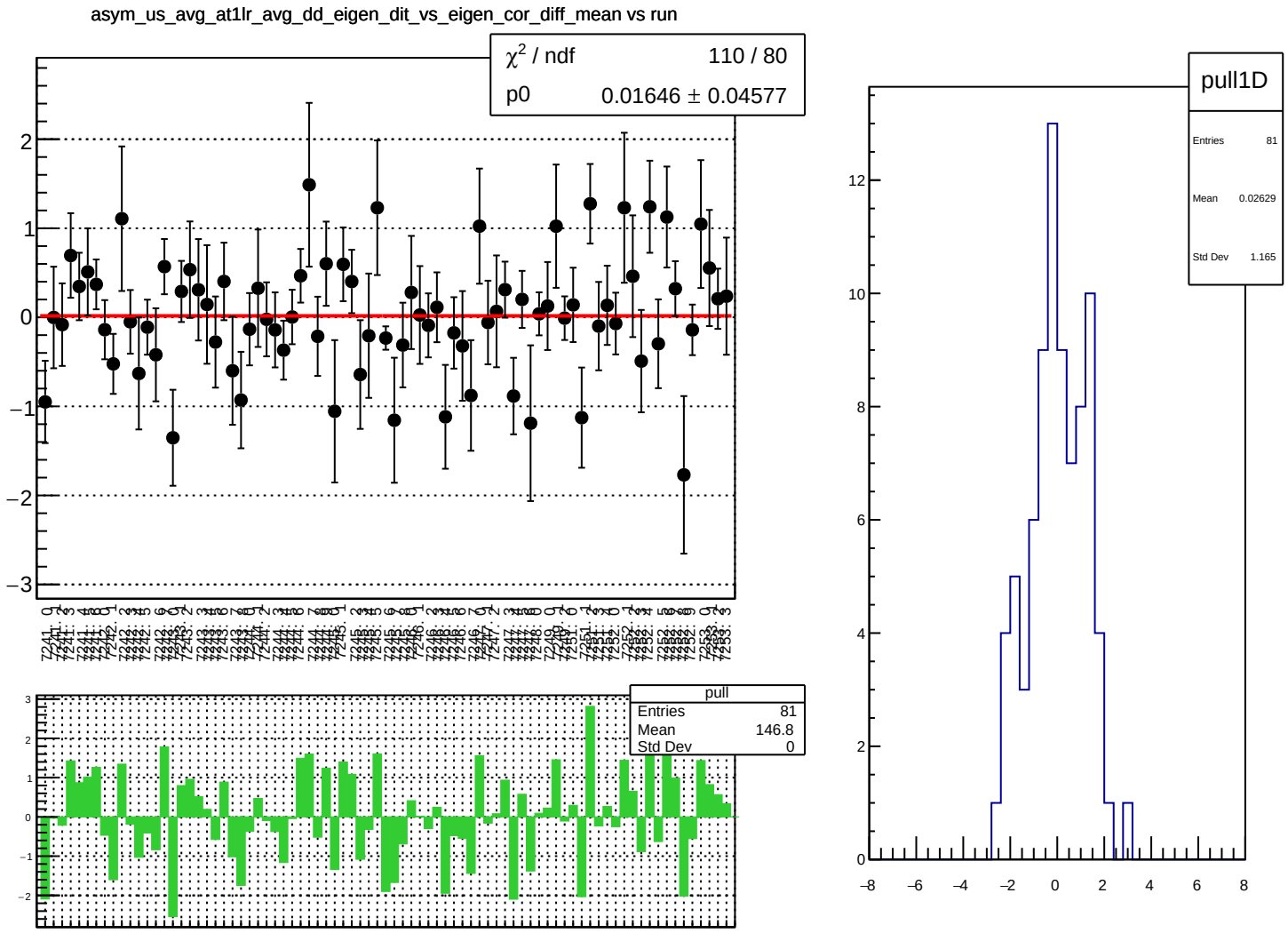

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.34 / 80
p0 −7.164e−07 ± 4.074e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 81
Mean −34.47
Std Dev 0
2
1
0
−1
−2

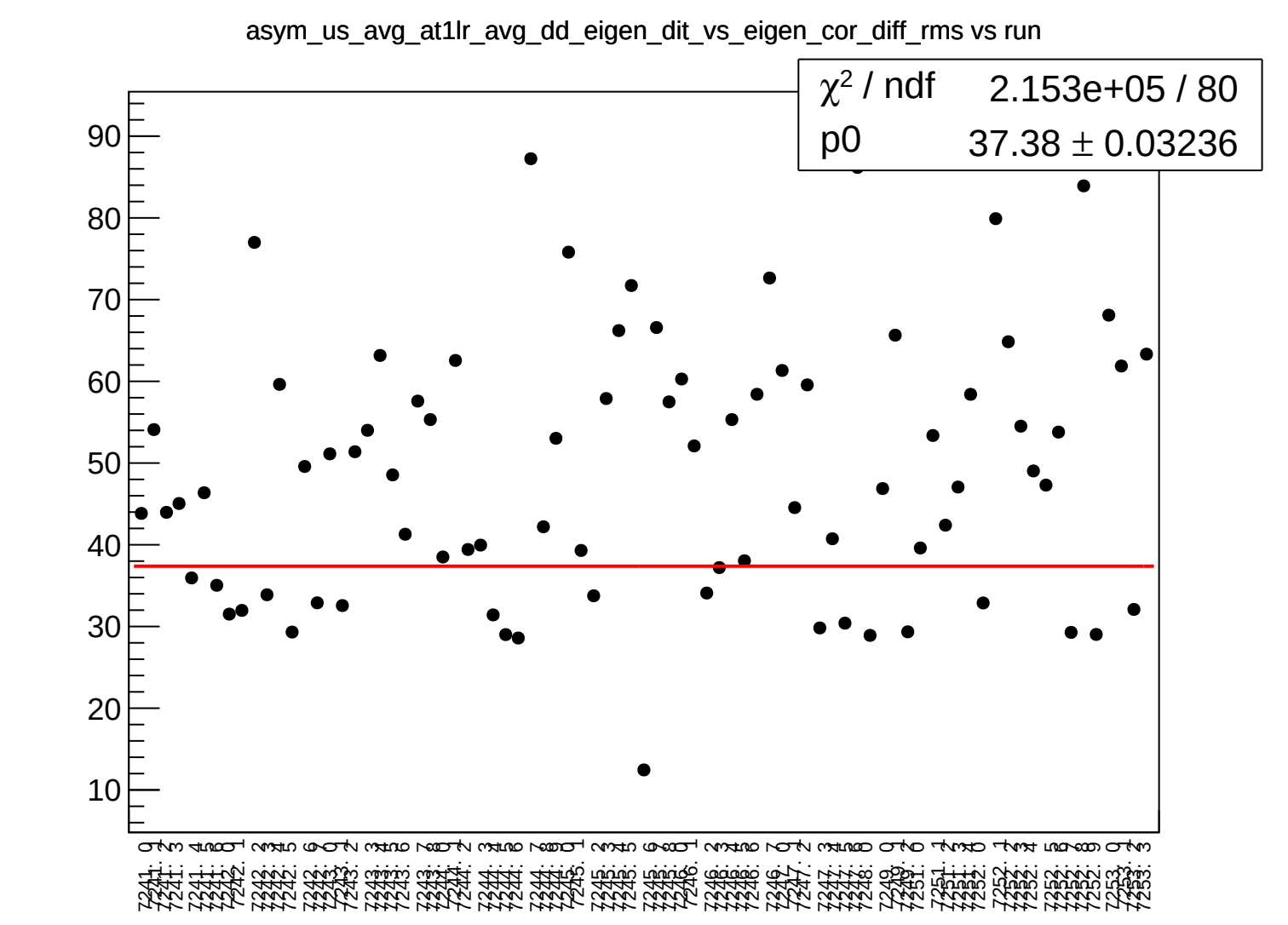

pull1D
Entries 81
Mean 0.0628
Std Dev 1.066
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

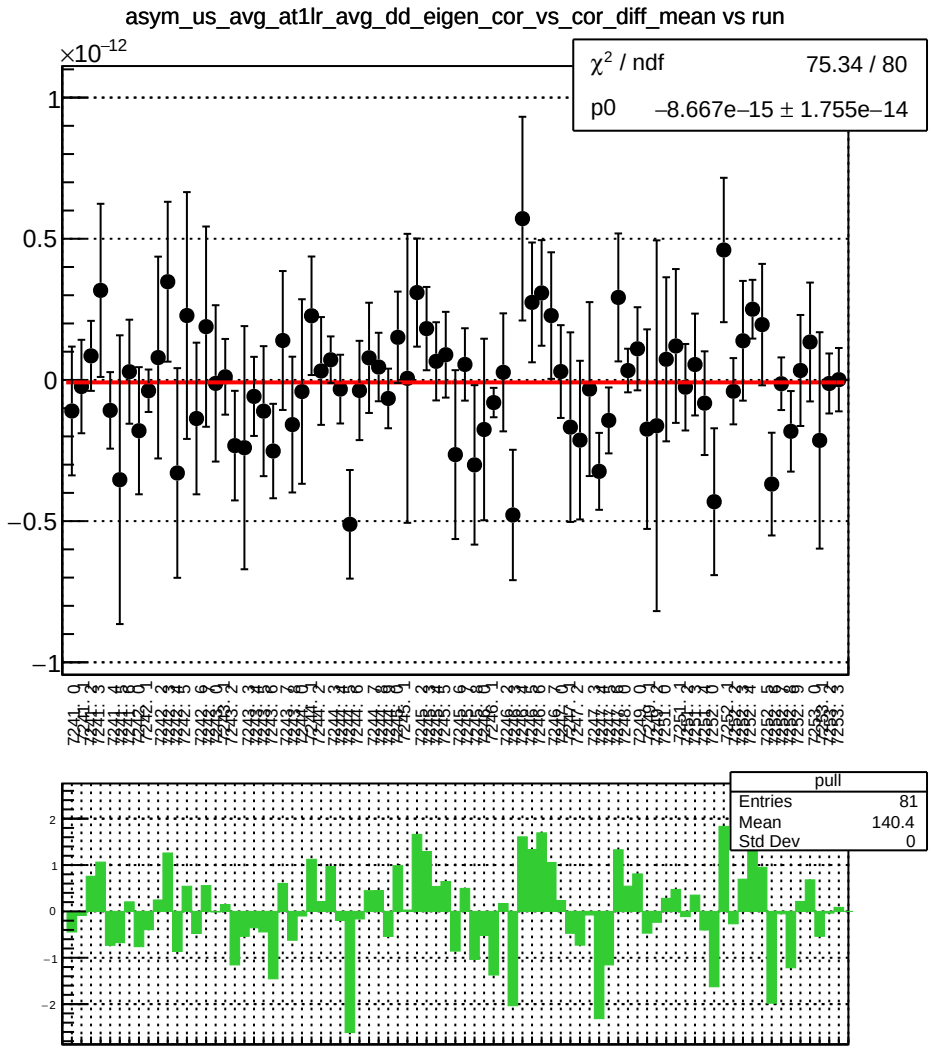

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.787e+04 / 80
p0 0.003471 ± 2.881e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

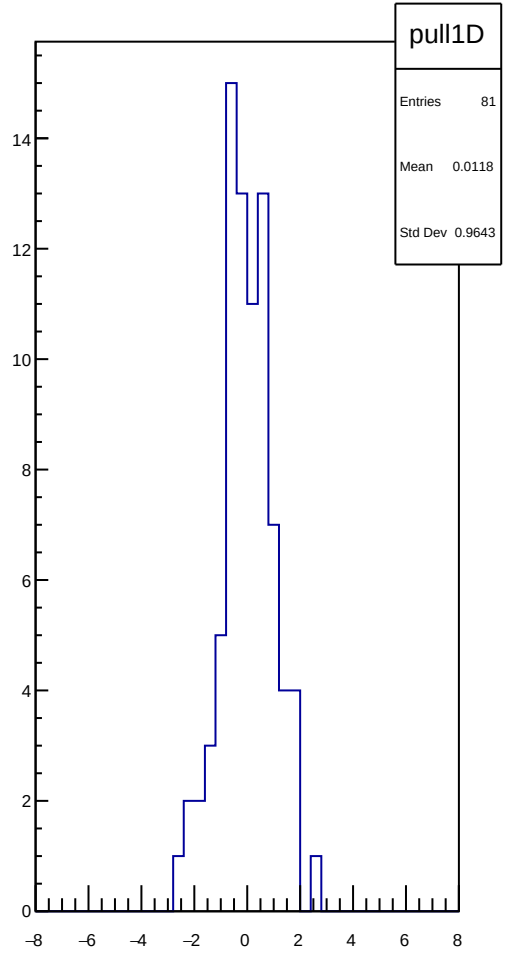

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 110 / 80
p0 0.01646 ± 0.04577
pull
Entries 81
Mean 146.8
Std Dev 0
pull1D
Entries 81
Mean 0.02629
Std Dev 1.165

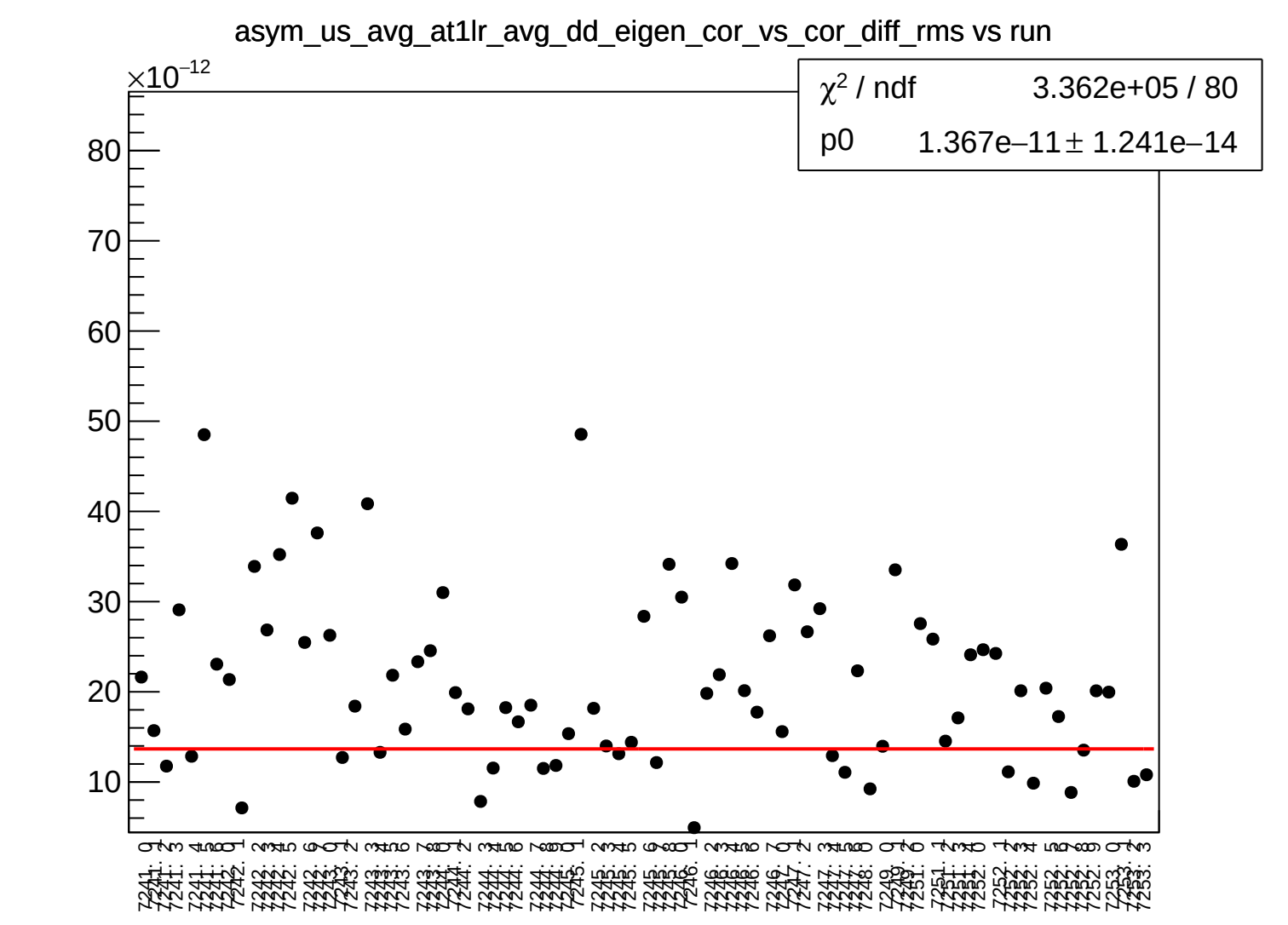

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.153e+05 / 80
p0 37.38 ± 0.03236
90
80
70
60
50
40
30
20
10

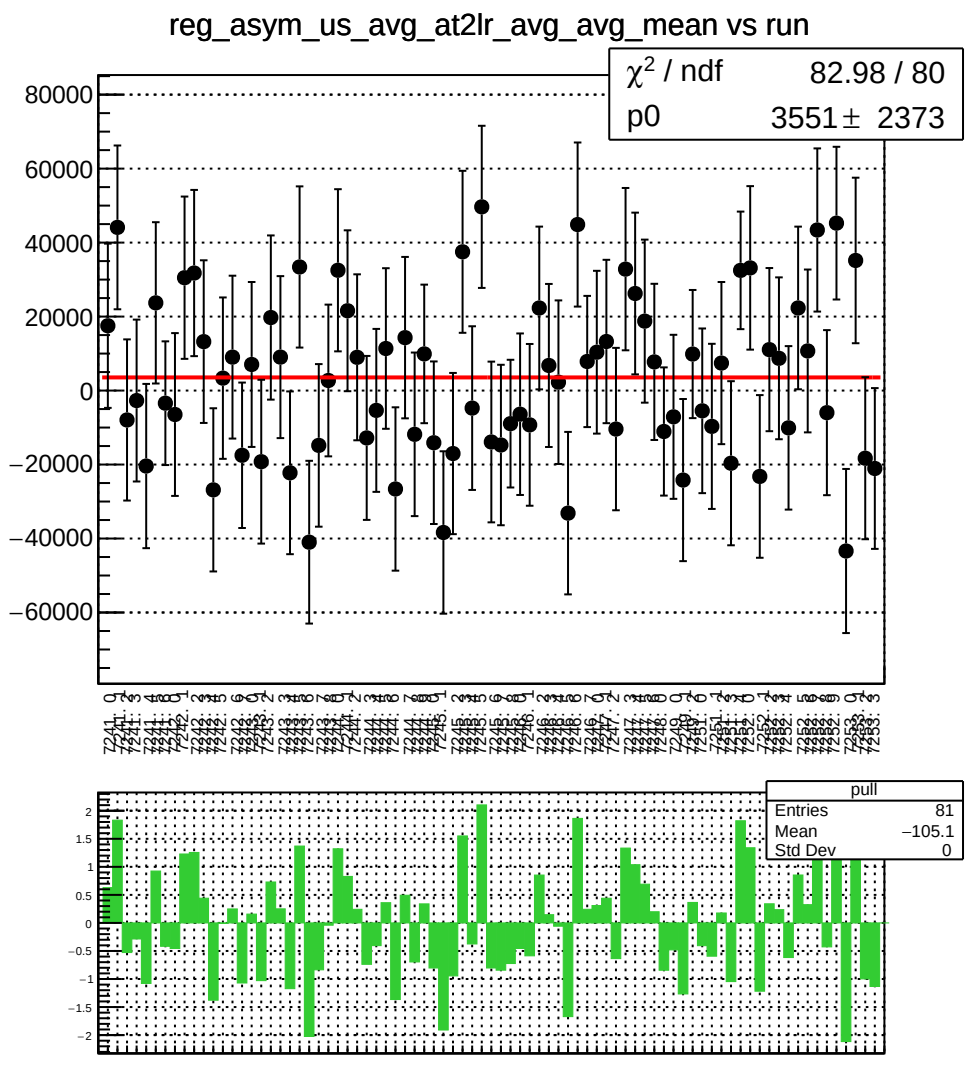

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110 / 80
p0 0.01646 ± 0.04577
pull
Entries 81
Mean 146.8
Std Dev 0
pull1D
Entries 81
Mean 0.02629
Std Dev 1.165

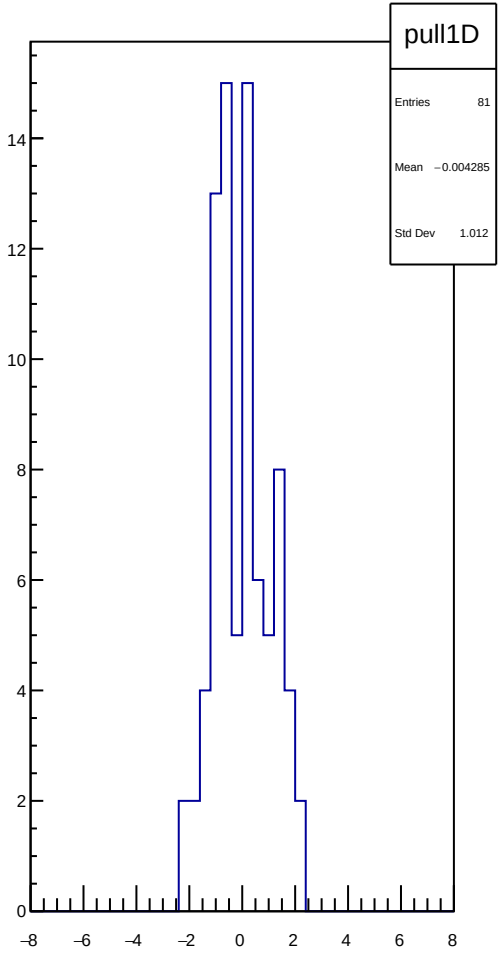

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.153e+05 / 80
p0 37.38 ± 0.03236
90
80
70
60
50
40
30
20
10

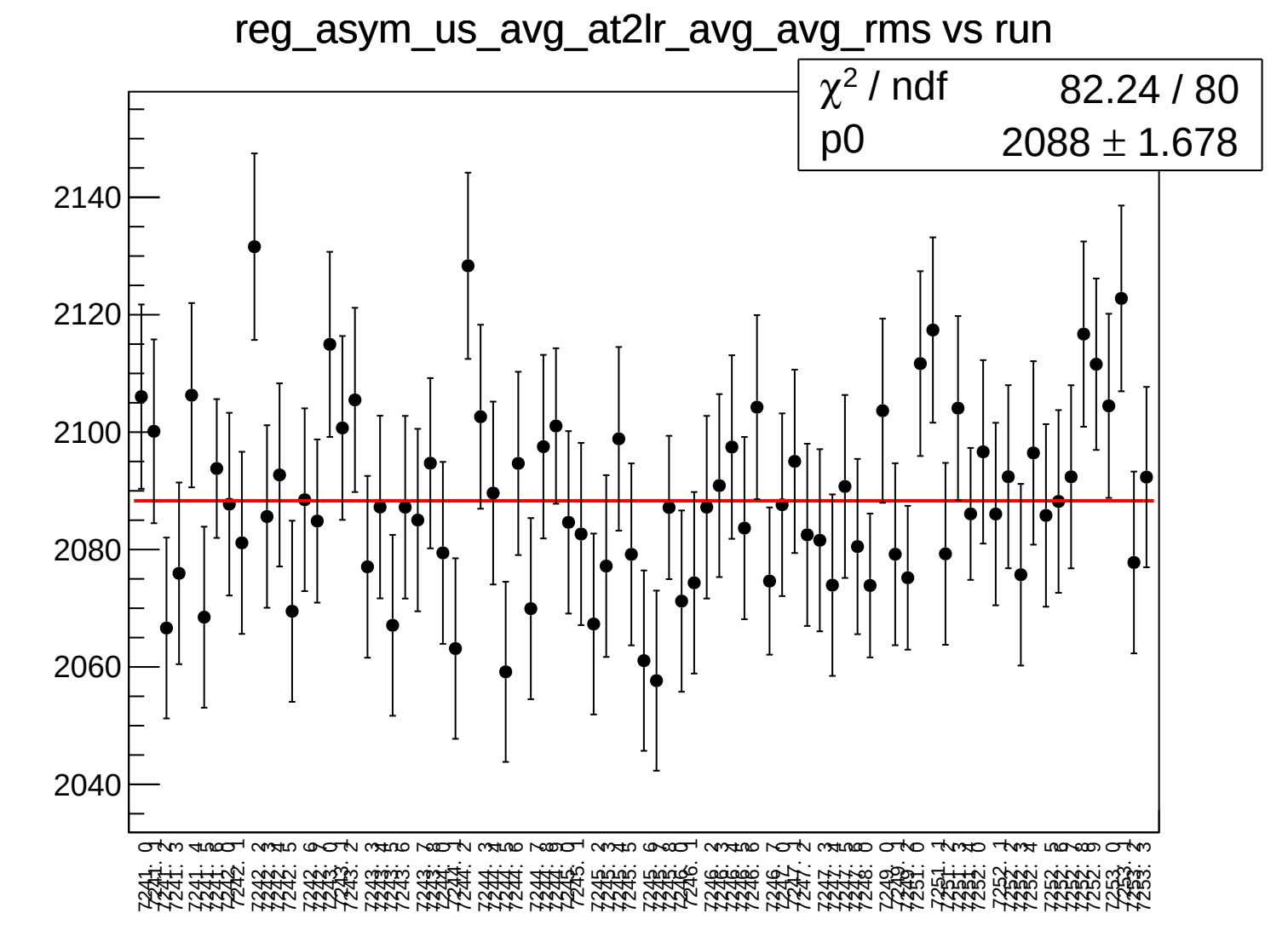

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.34 / 80
p0 −8.667e−15 ± 1.755e−14
pull
Entries 81
Mean 140.4
Std Dev 0

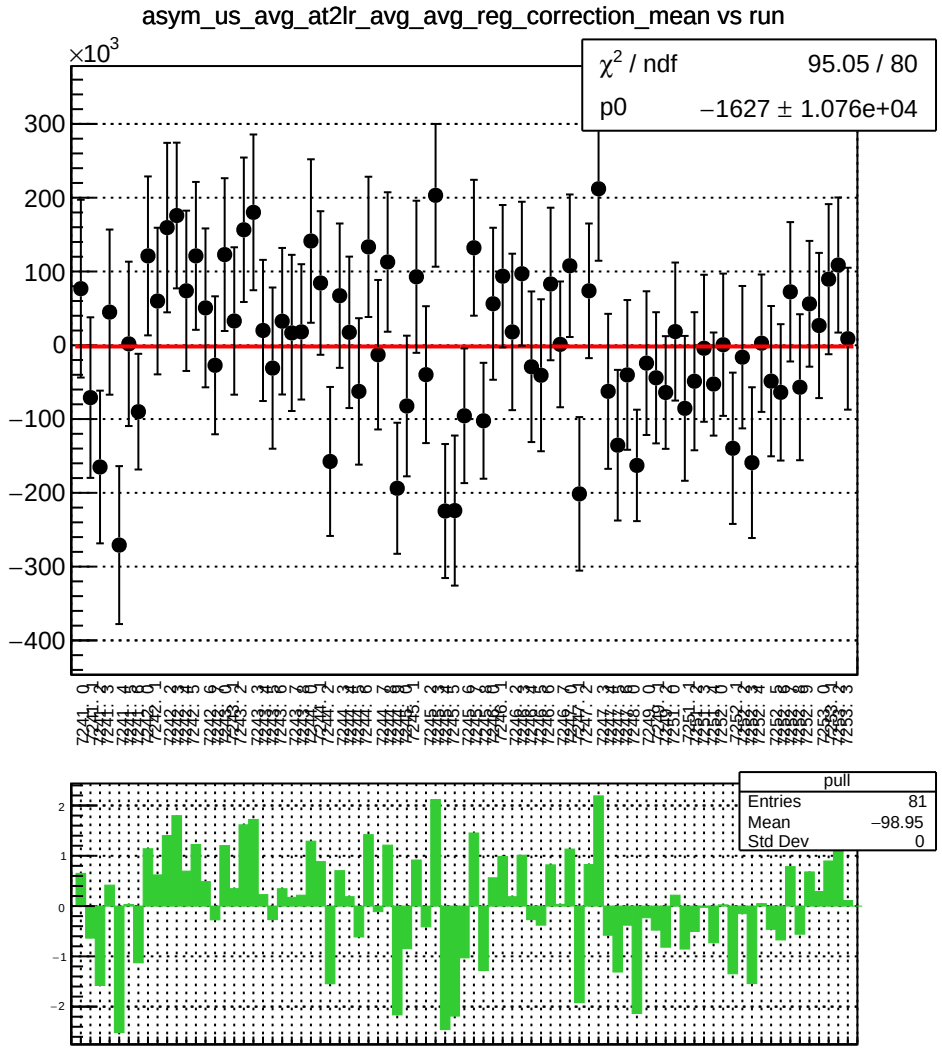

pull1D
Entries 81
Mean 0.0118
Std Dev 0.9643

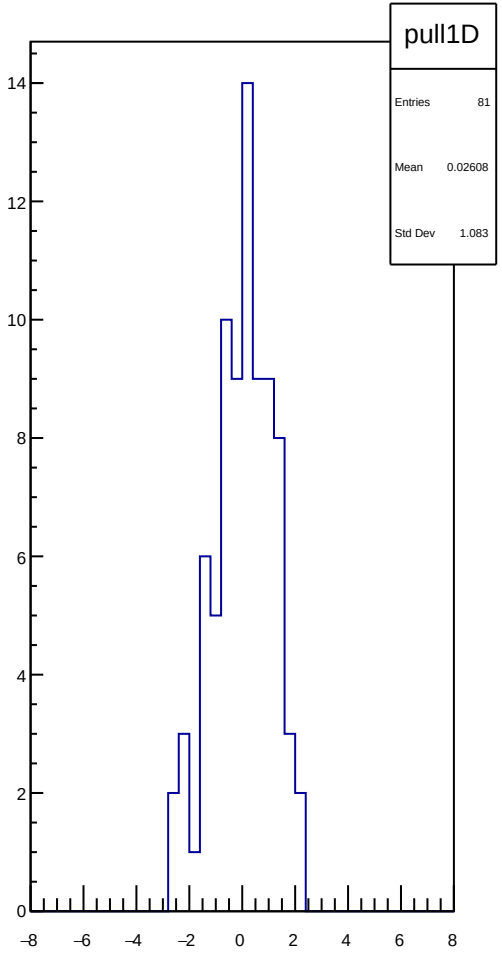

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.362e+05 / 80
p0 1.367e−11 ± 1.241e−14
80
70
60
50
40
30
20
10

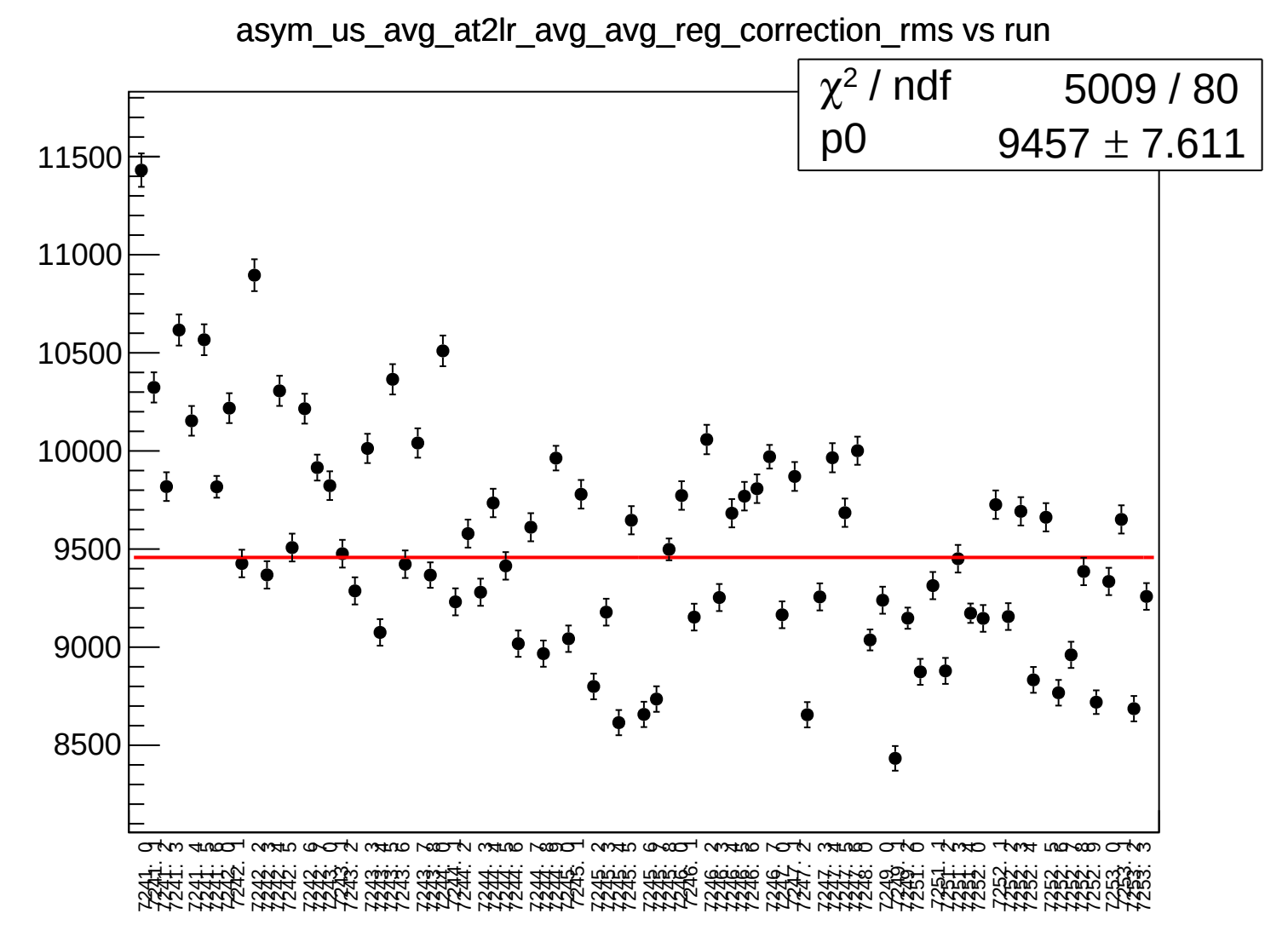

reg_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 82.98 / 80
p0 3551 ± 2373
pull
Entries 81
Mean −105.1
Std Dev 0

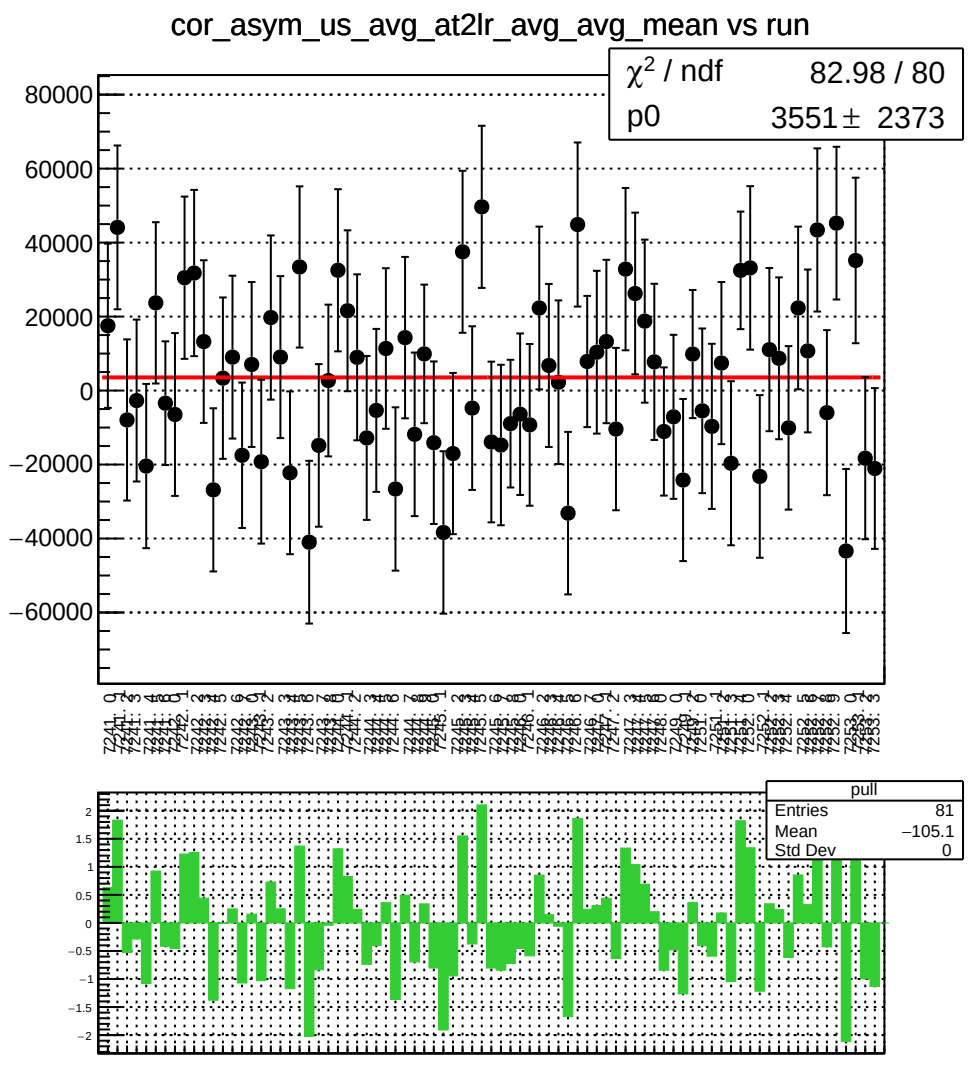

pull1D
Entries 81
Mean −0.004285
Std Dev 1.012

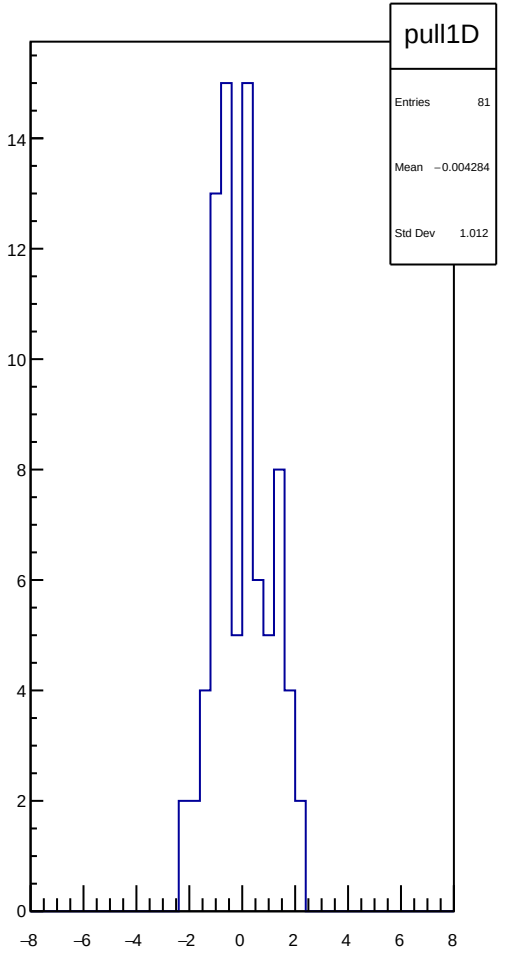

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 82.24 / 80
p0 2088 ± 1.678
2140
2120
2100
2080
2060
2040

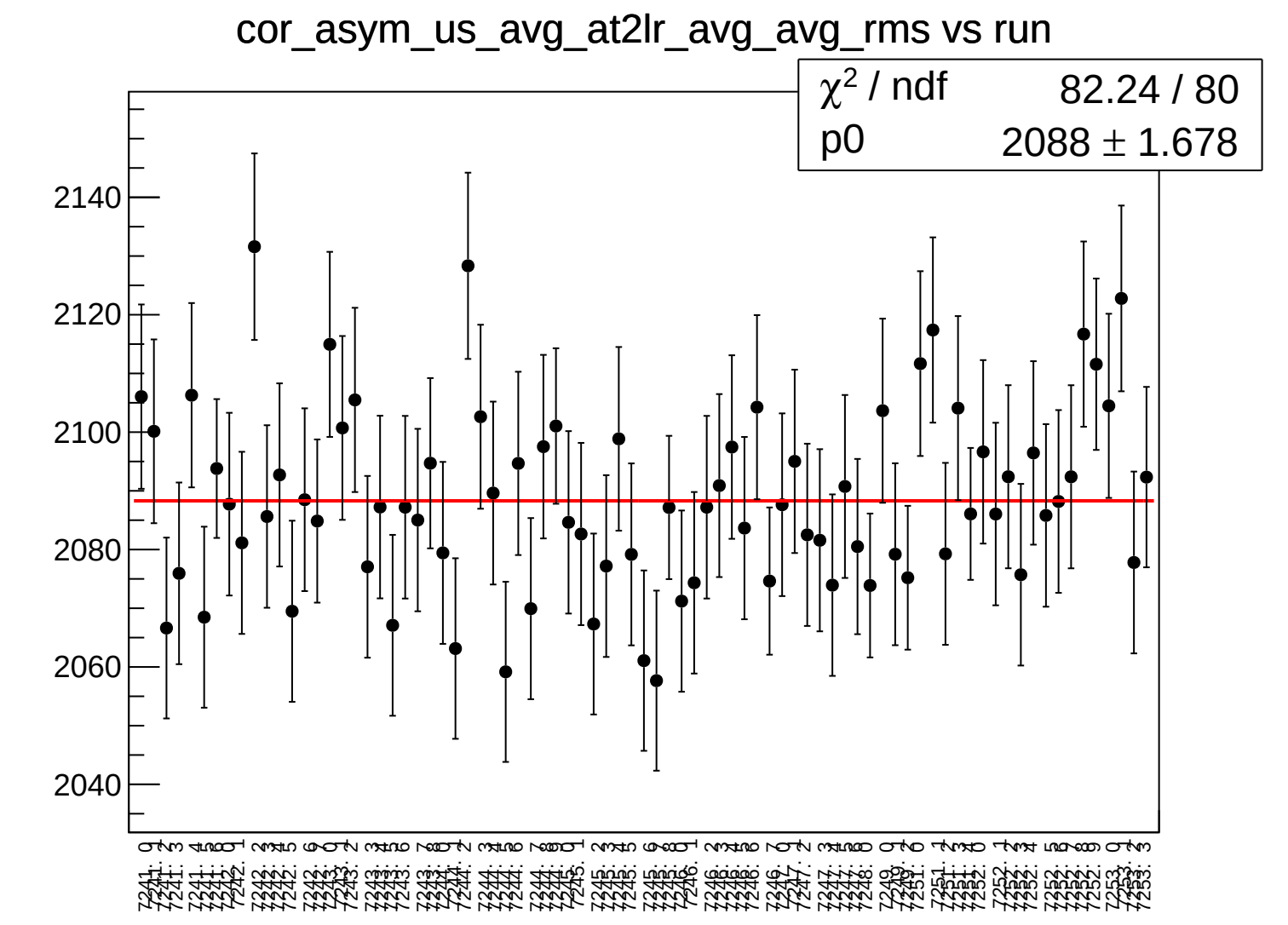

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 95.05 / 80
p0 −1627 ± 1.076e+04
300
200
100
0
−100
−200
−300
−400
pull
Entries 81
Mean −98.95
Std Dev 0
2
1
0
−1
−2

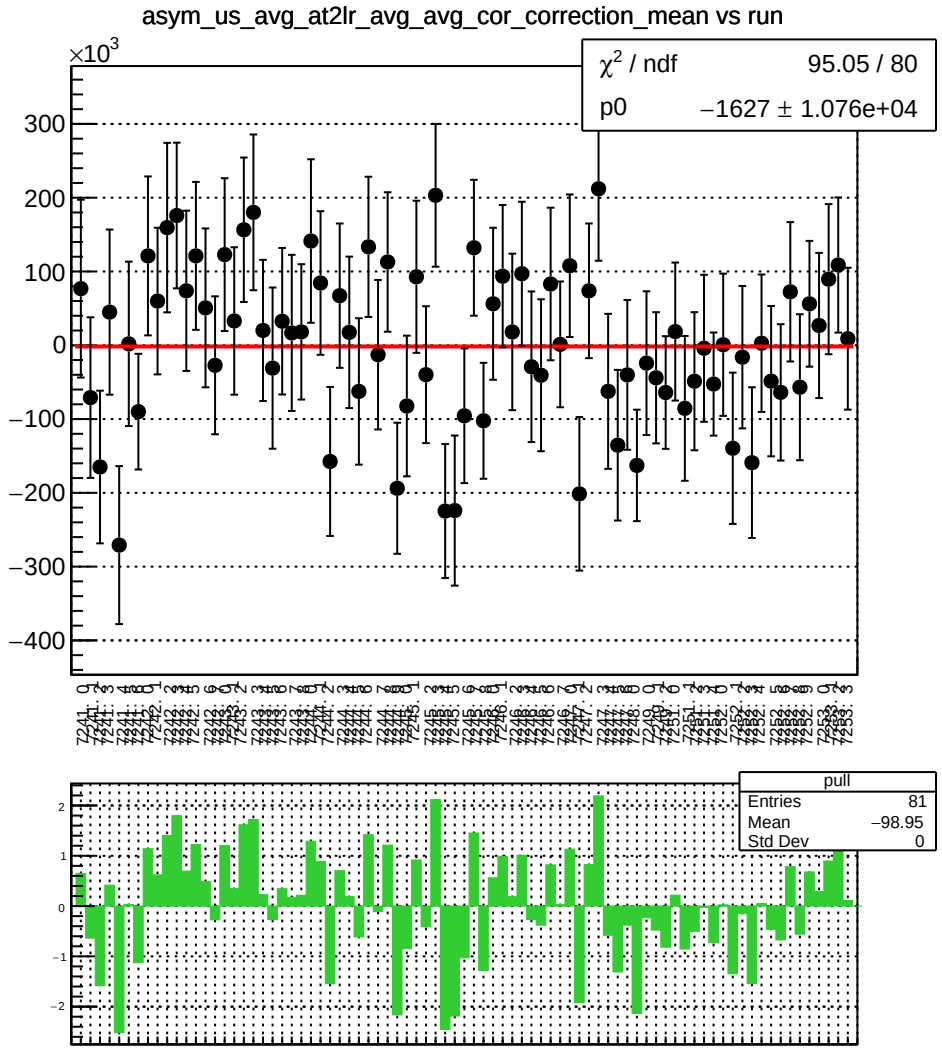

pull1D
Entries 81
Mean 0.02608
Std Dev 1.083
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

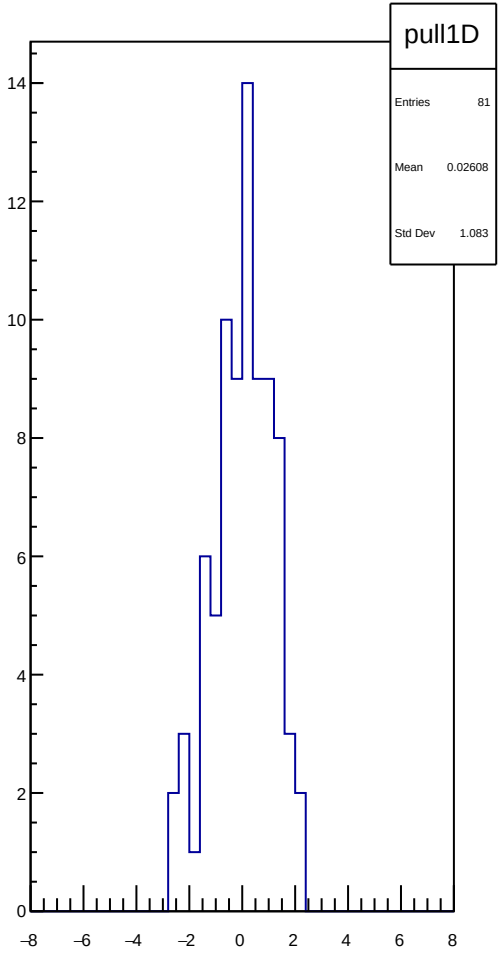

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 5009 / 80
p0 9457 ± 7.611
11500
11000
10500
10000
9500
9000
8500

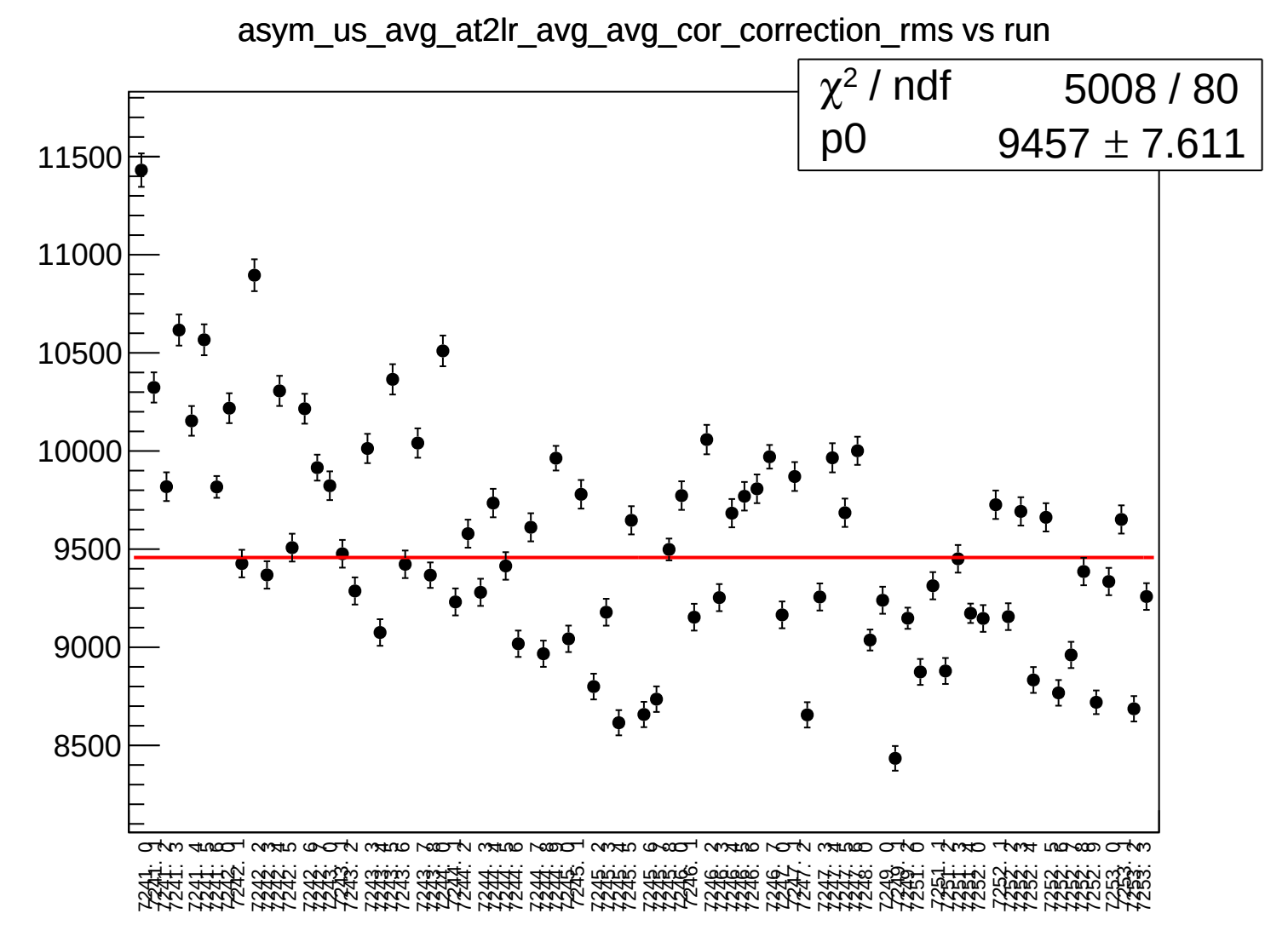

cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 82.98 / 80
p0 3551 ± 2373
pull
Entries 81
Mean −105.1
Std Dev 0

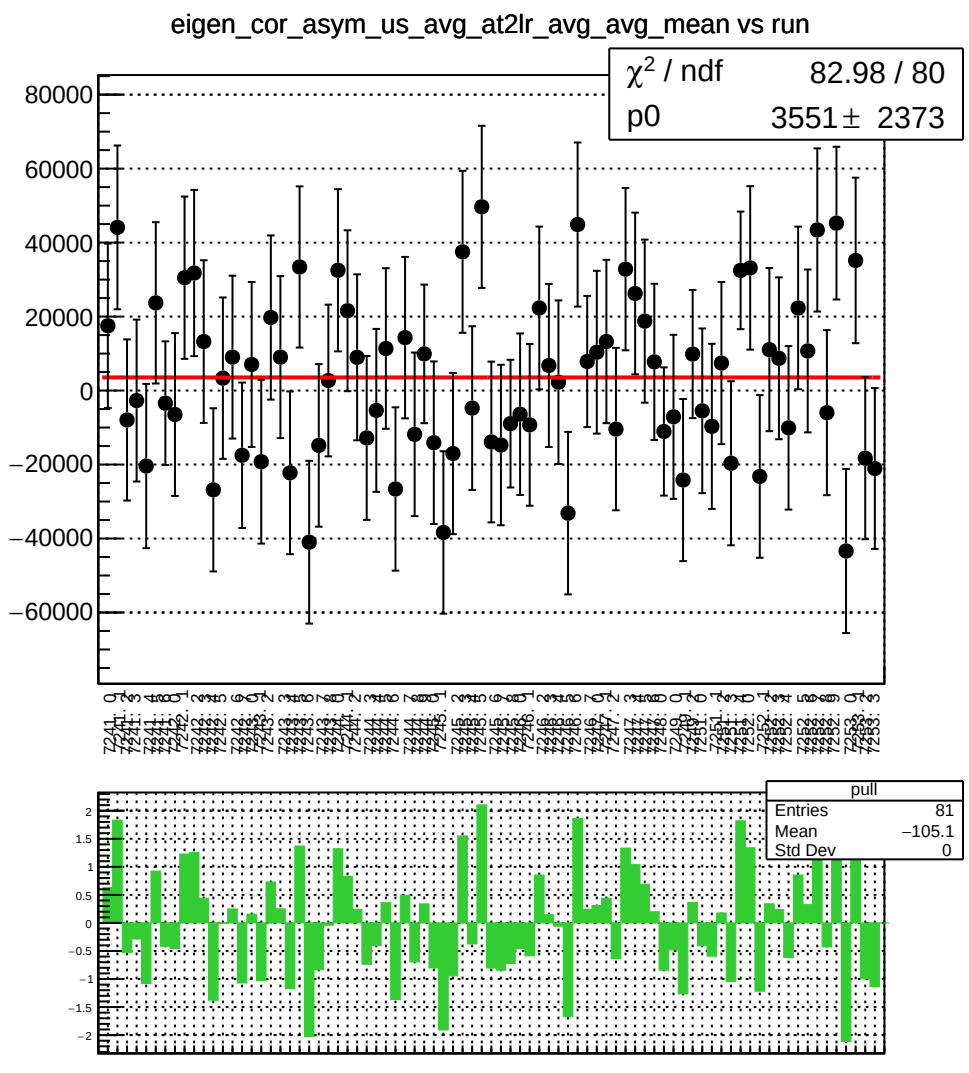

pull1D
Entries 81
Mean −0.004284
Std Dev 1.012

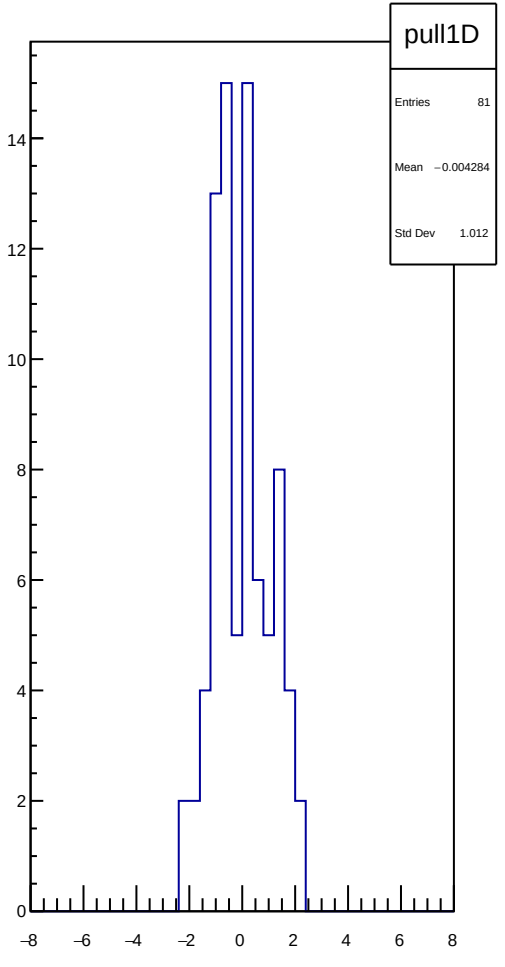

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 82.24 / 80
p0 2088 ± 1.678
2140
2120
2100
2080
2060
2040

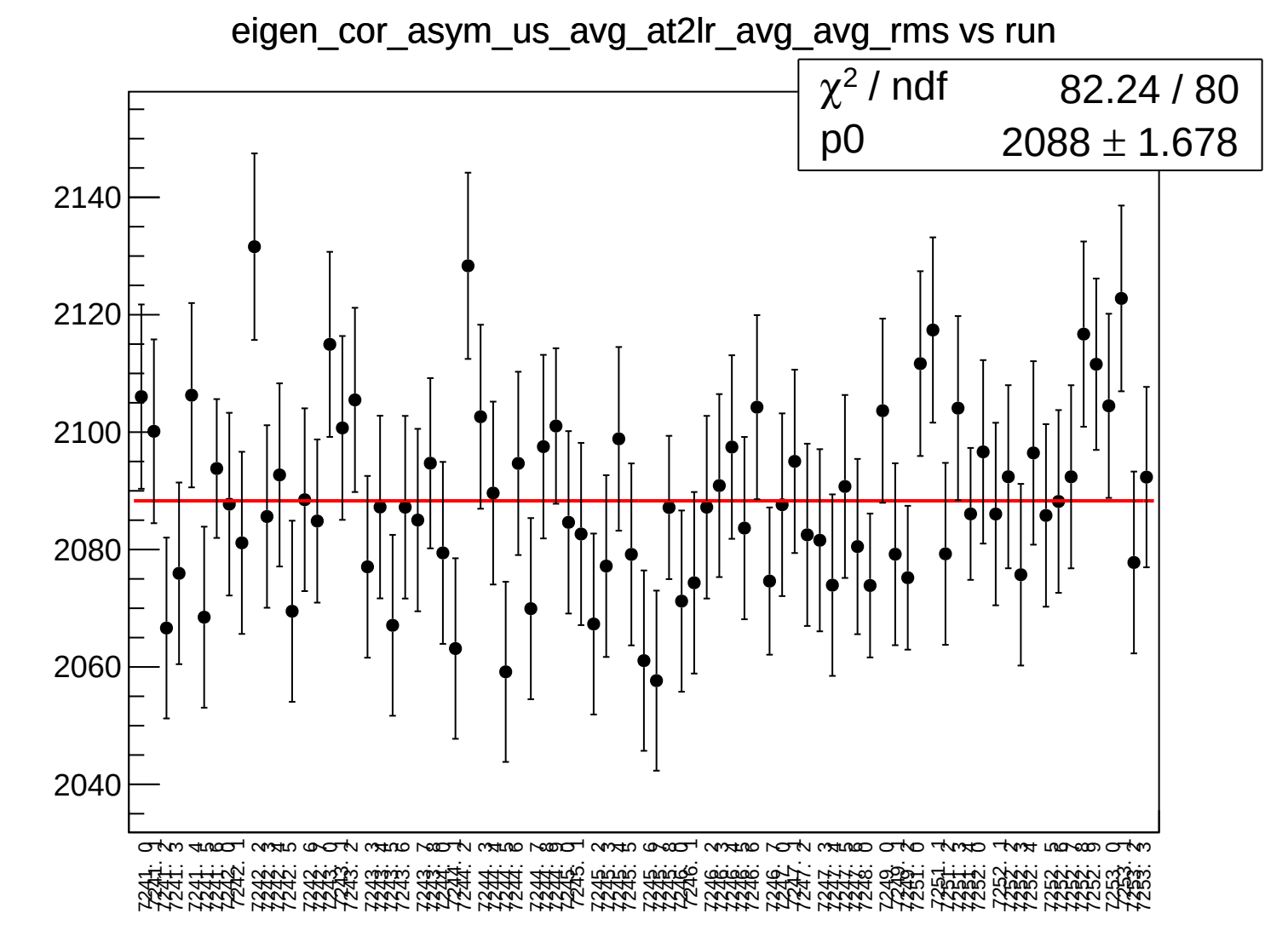

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 95.05 / 80
p0 −1627 ± 1.076e+04
300
200
100
0
−100
−200
−300
−400
pull
Entries 81
Mean −98.95
Std Dev 0
2
1
0
−1
−2

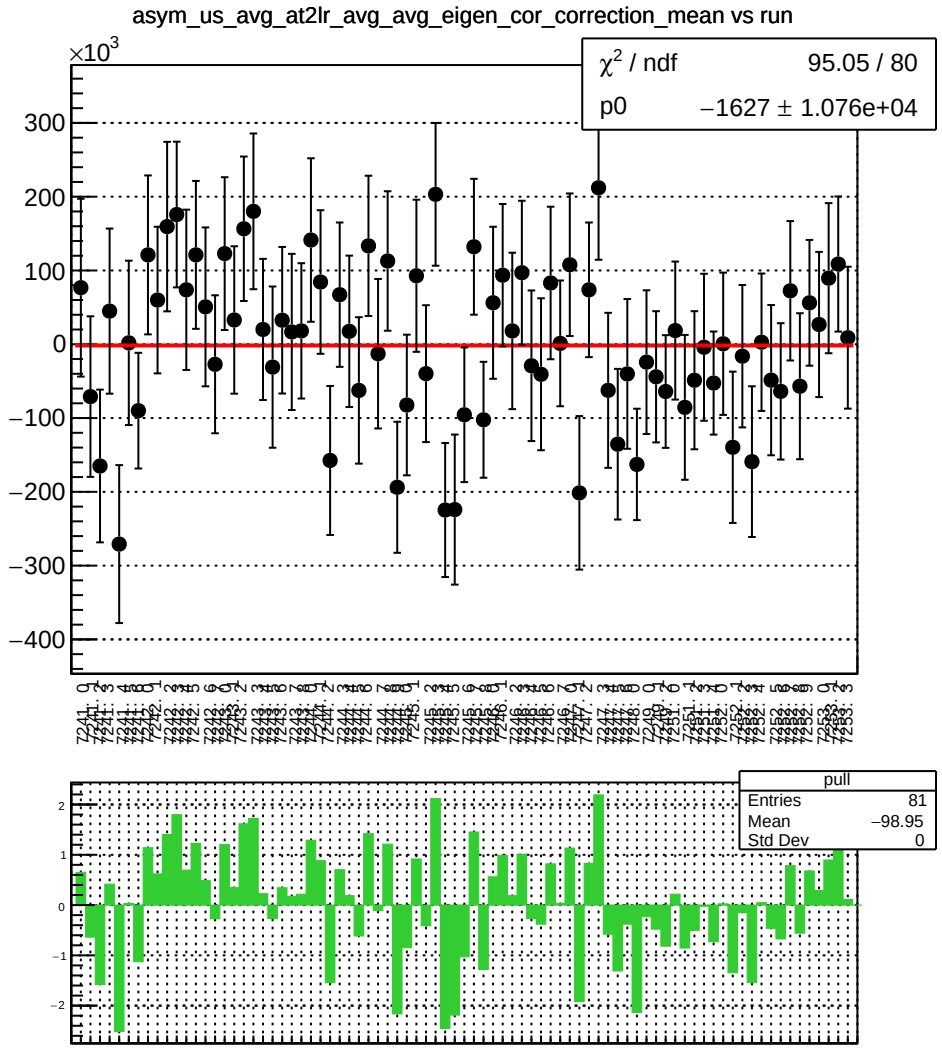

pull1D
Entries 81
Mean 0.02608
Std Dev 1.083
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

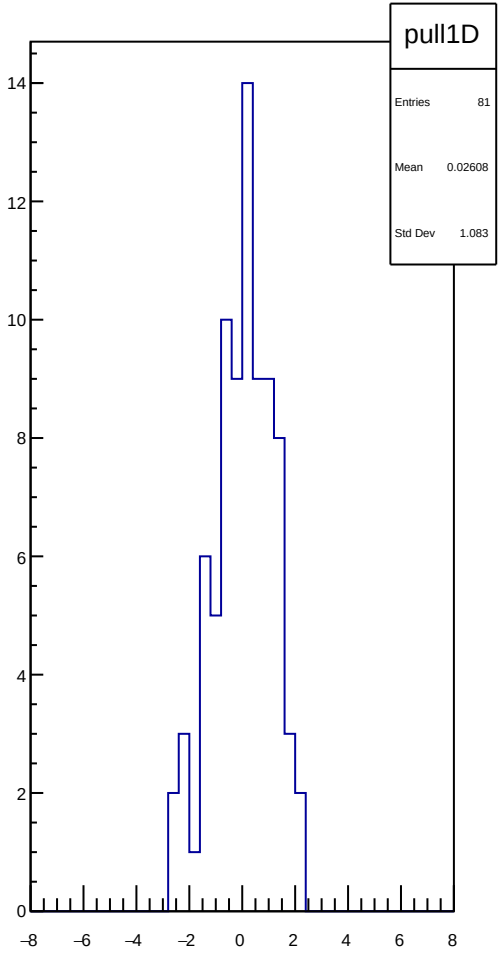

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 5008 / 80
p0 9457 ± 7.611
11500
11000
10500
10000
9500
9000
8500

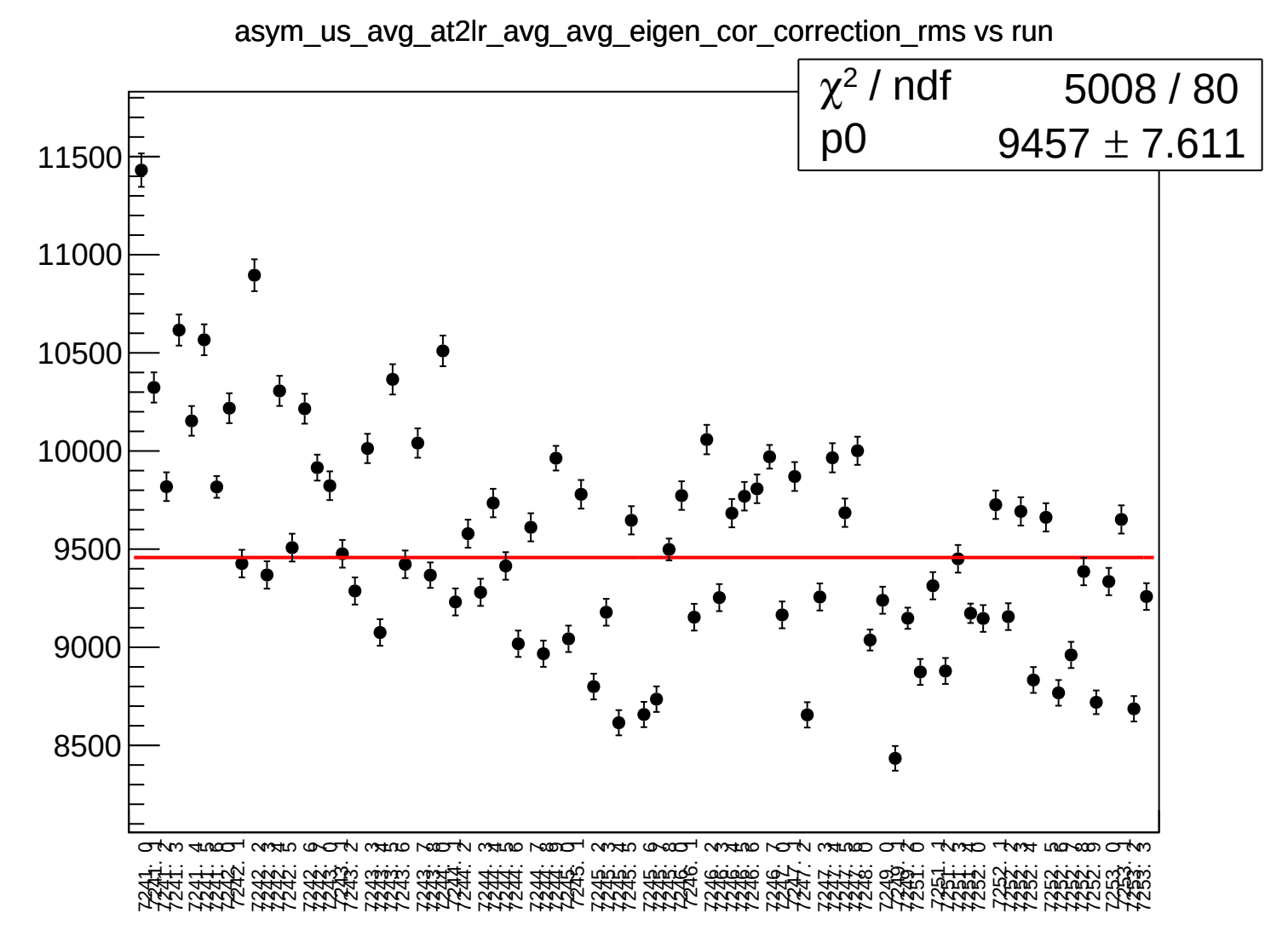

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 82.98 / 80
p0 3551 ± 2373
pull
Entries 81
Mean −105.1
Std Dev 0

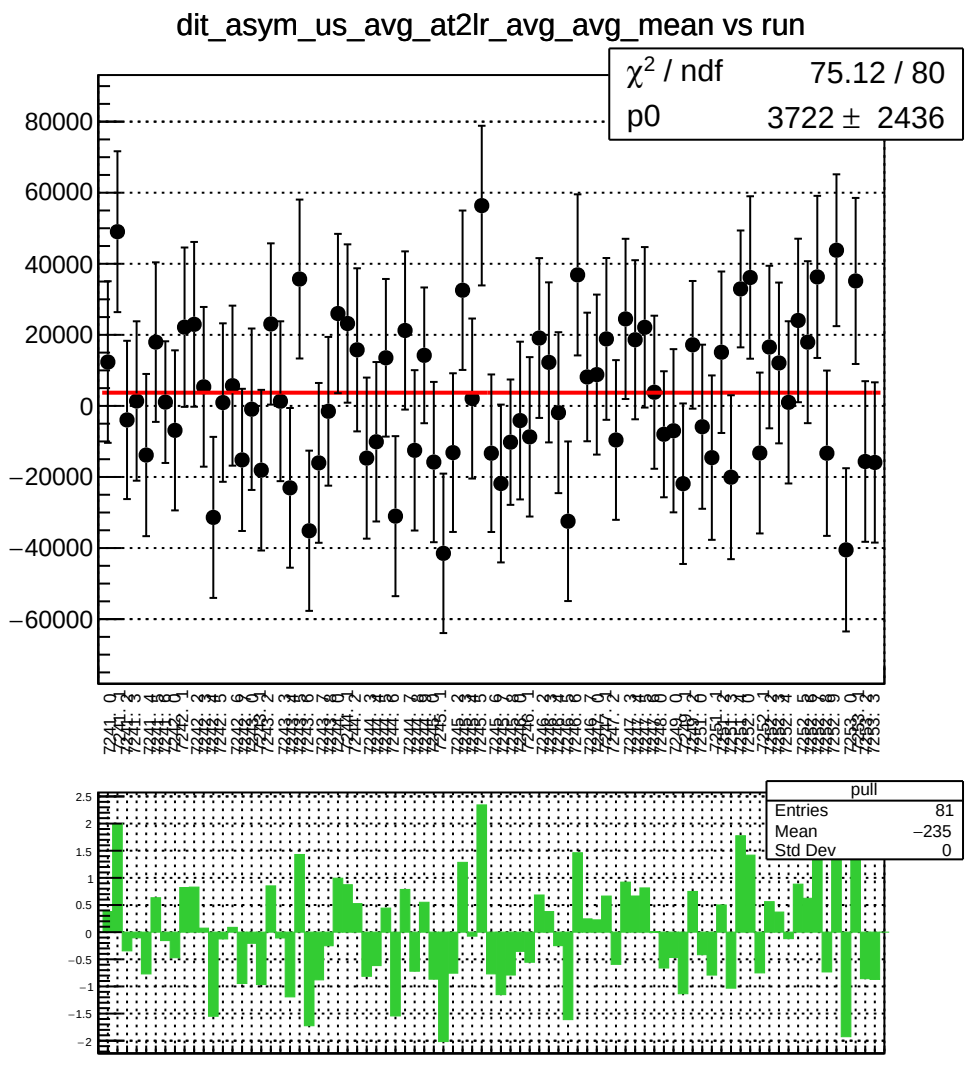

pull1D
Entries 81
Mean −0.004284
Std Dev 1.012

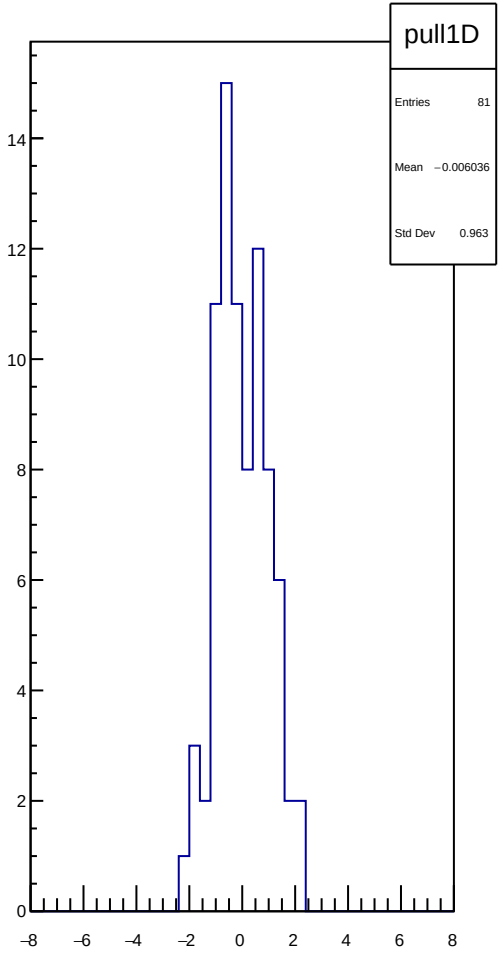

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 82.24 / 80
p0 2088 ± 1.678
2140
2120
2100
2080
2060
2040

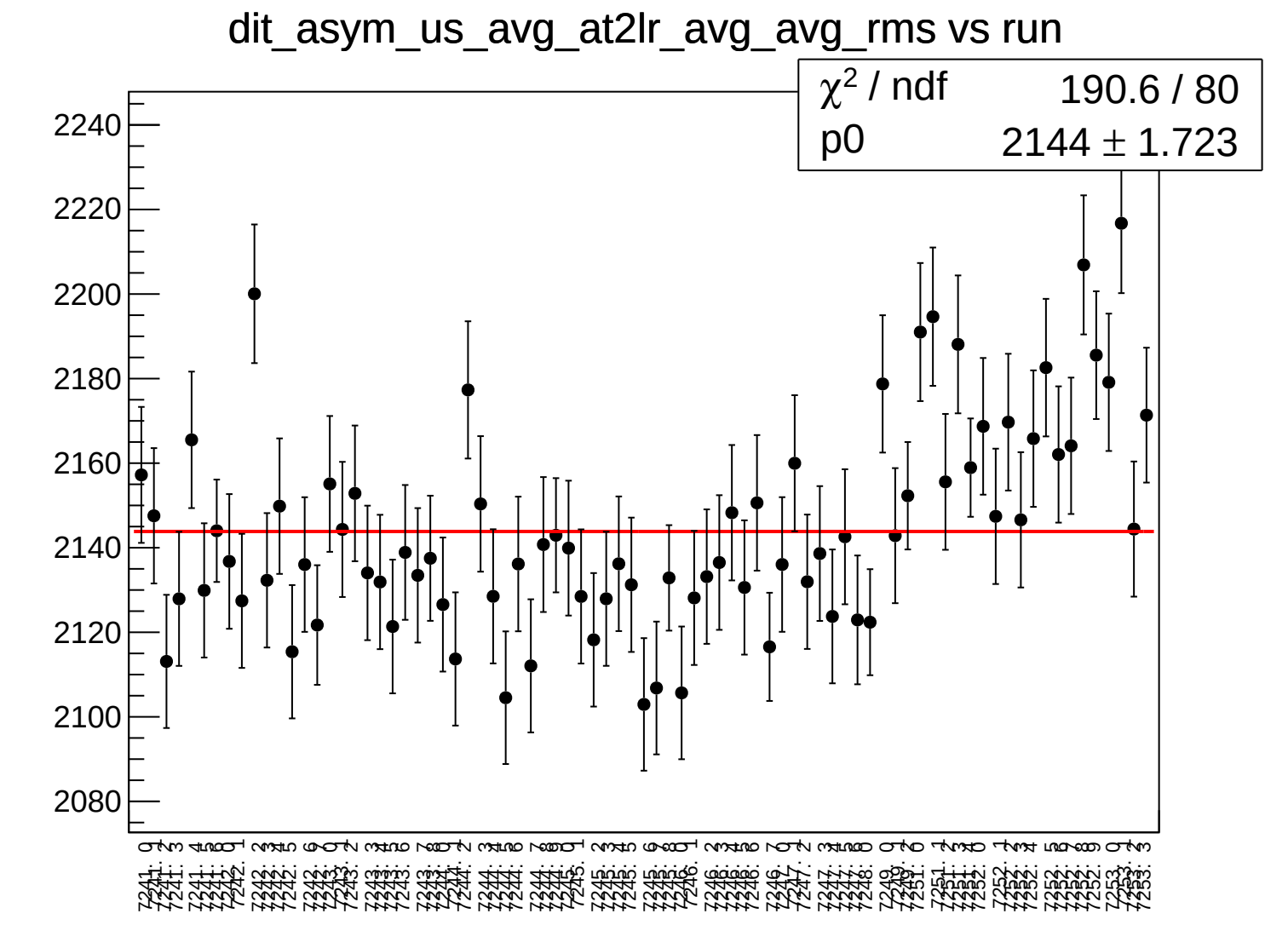

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 95.05 / 80
p0 −1627 ± 1.076e+04
pull
Entries 81
Mean −98.95
Std Dev 0

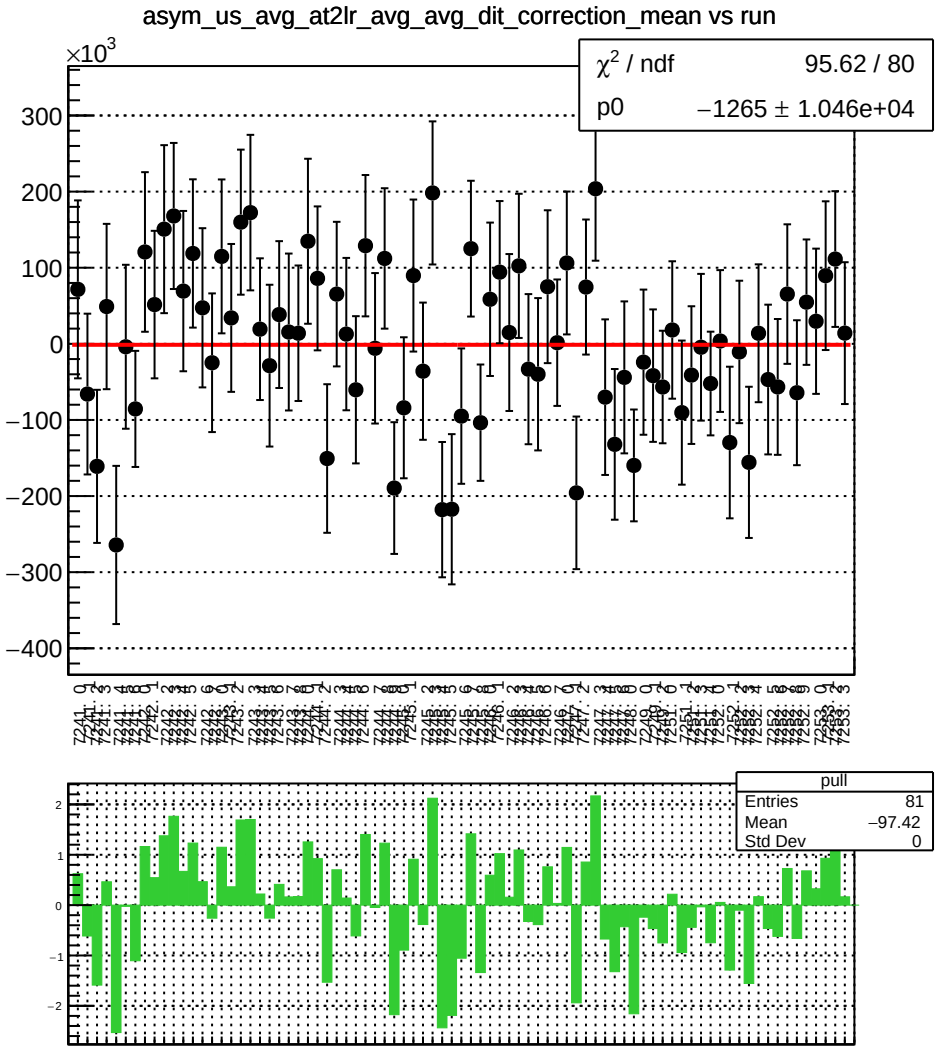

pull1D
Entries 81
Mean 0.02608
Std Dev 1.083

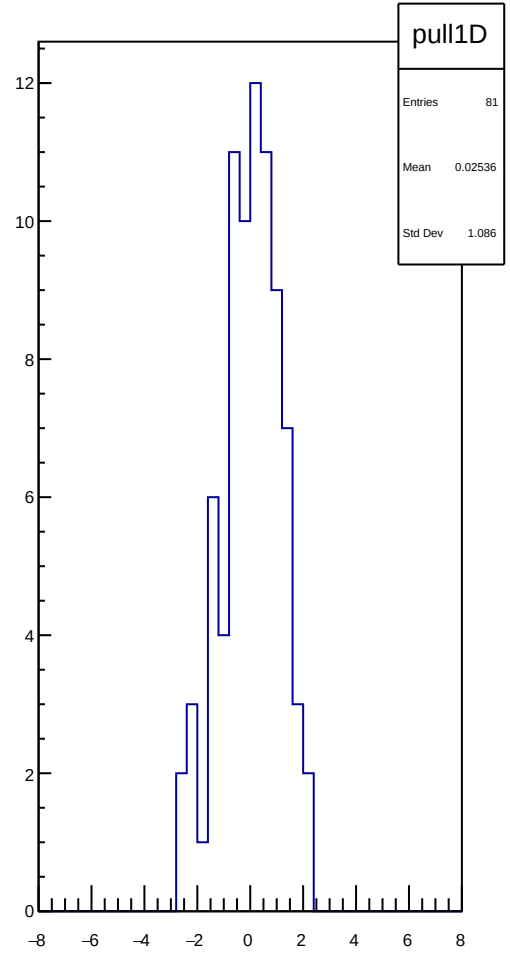

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 5008 / 80
p0 9457 ± 7.611
11500
11000
10500
10000
9500
9000
8500

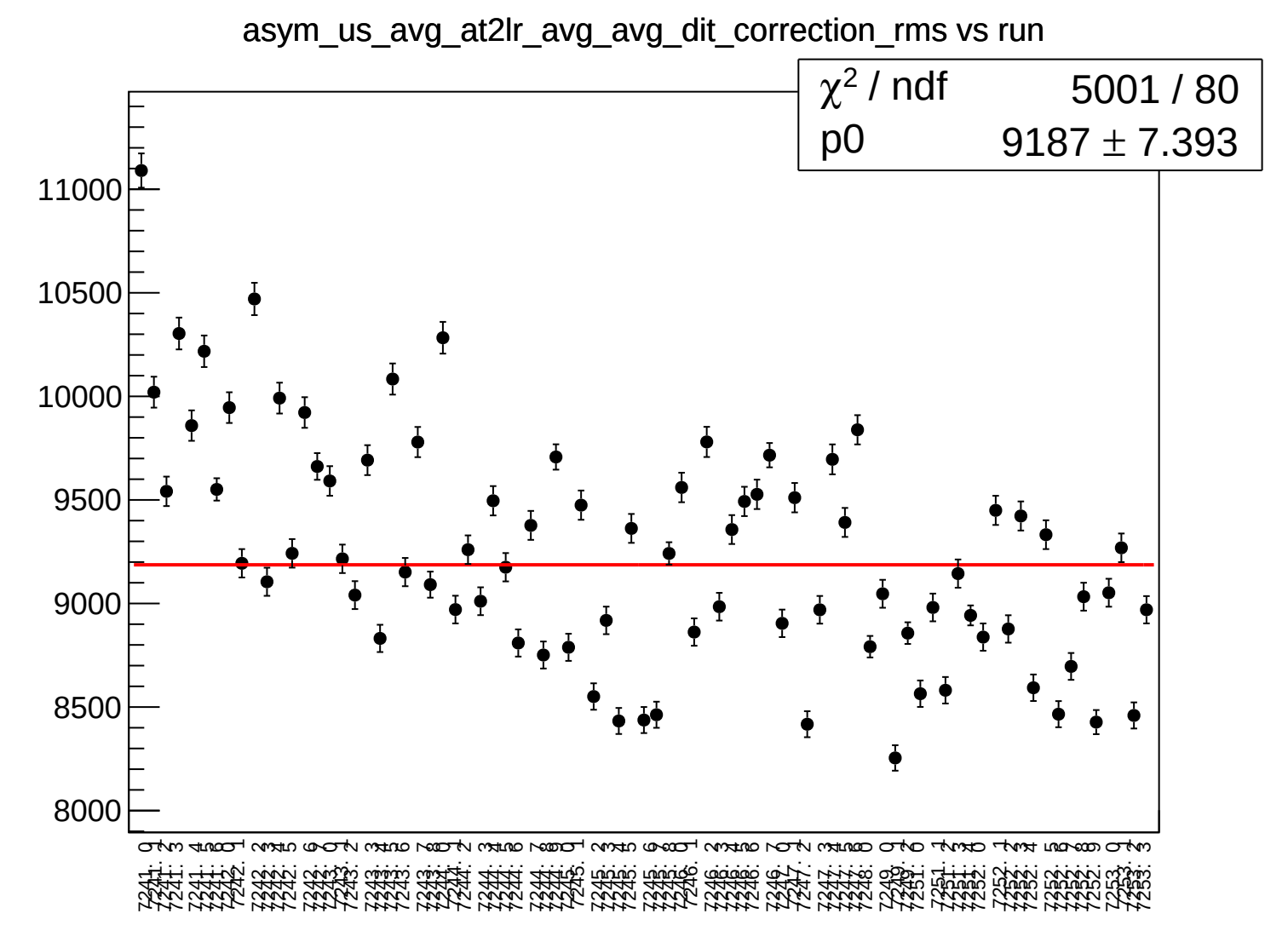

dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 75.12 / 80
p0 3722 ± 2436
pull
Entries 81
Mean −235
Std Dev 0

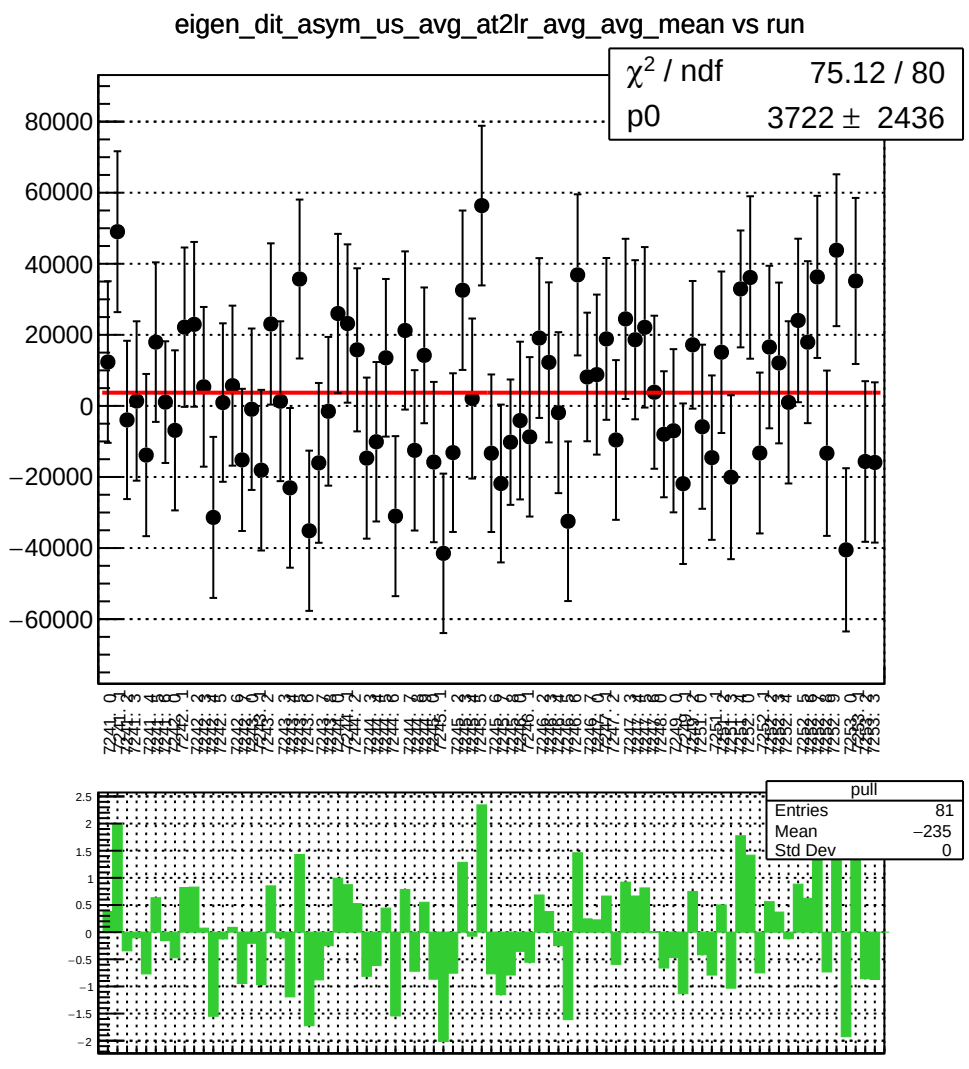

pull1D
Entries 81
Mean −0.006036
Std Dev 0.963

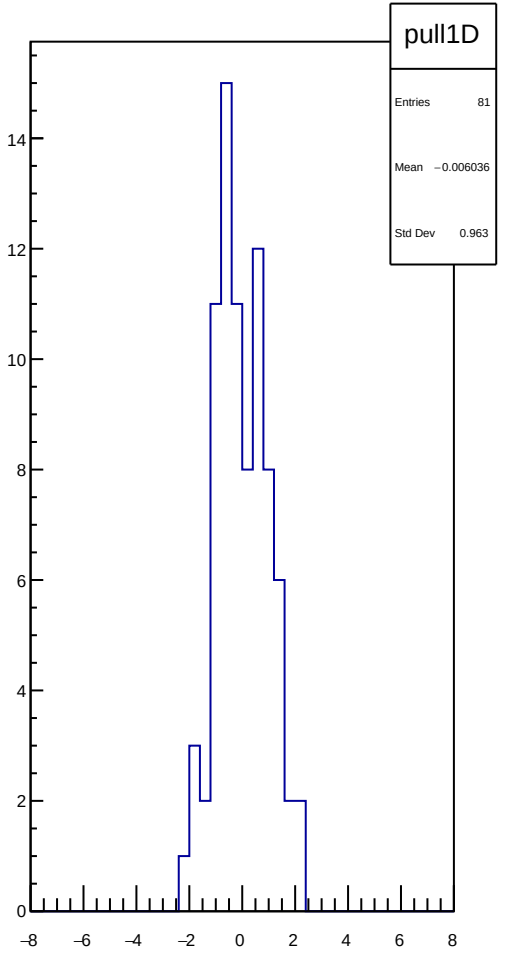

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 190.6 / 80
p0 2144 ± 1.723
2240
2220
2200
2180
2160
2140
2120
2100
2080

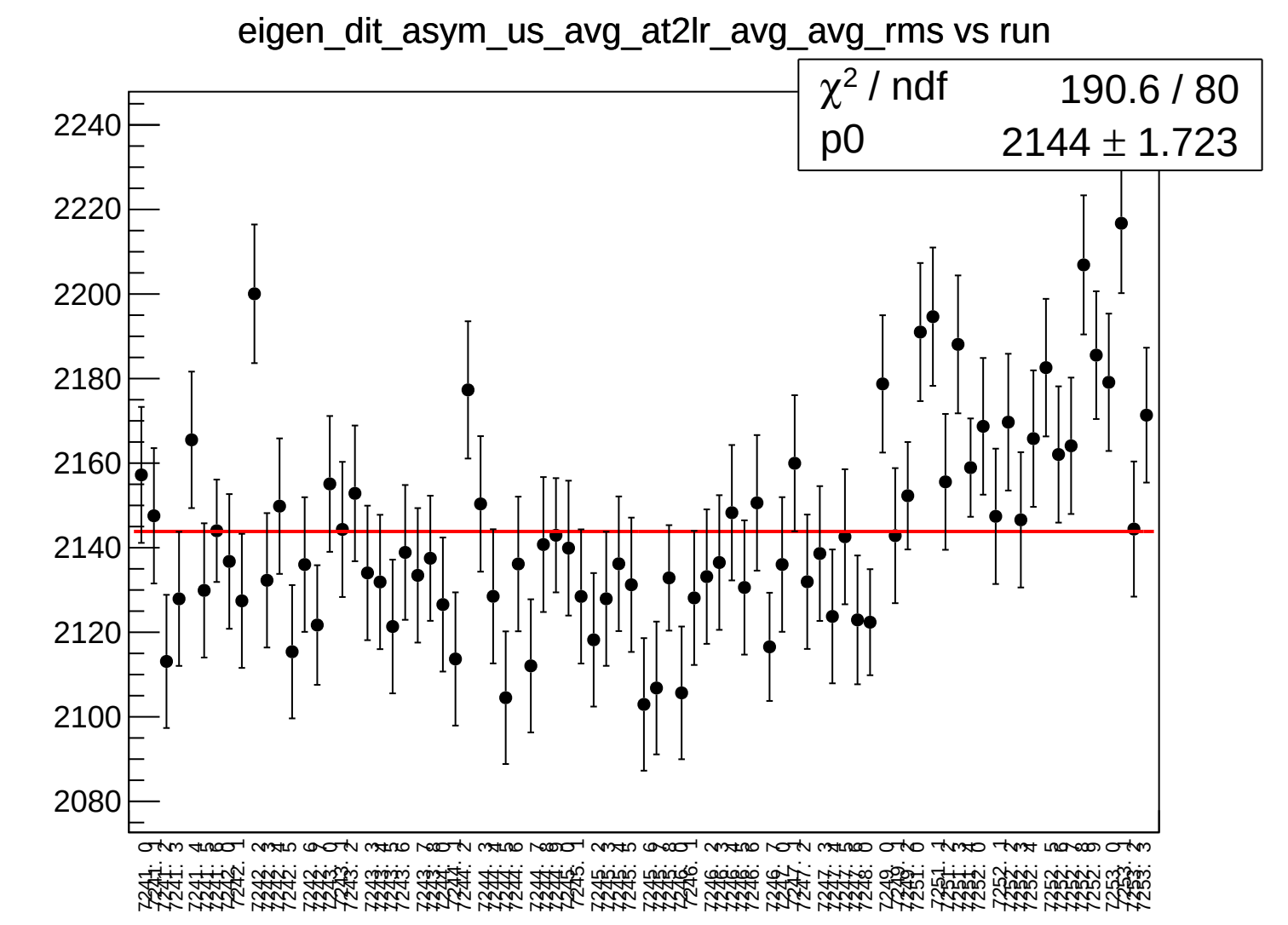

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 95.62 / 80
p0 −1265 ± 1.046e+04
pull
Entries 81
Mean −97.42
Std Dev 0

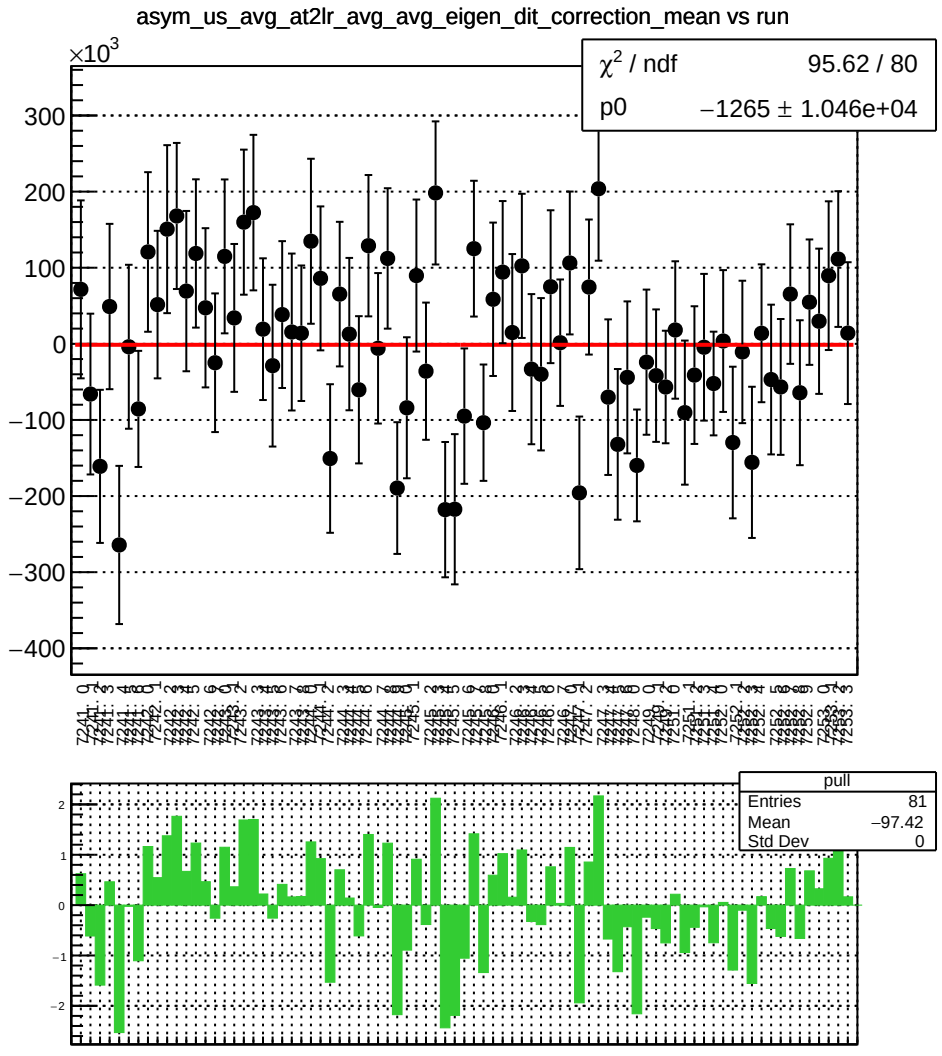

pull1D
Entries 81
Mean 0.02536
Std Dev 1.086

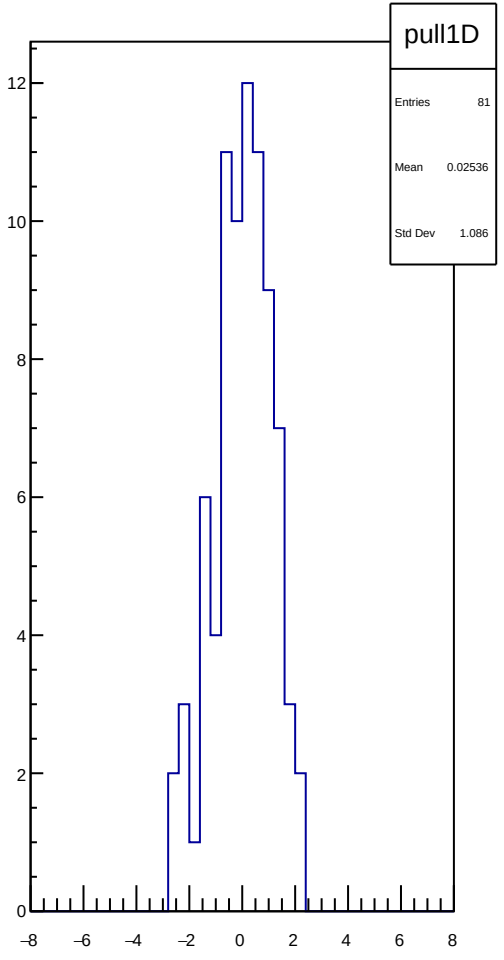

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 5001 / 80
p0 9187 ± 7.393
11000
10500
10000
9500
9000
8500
8000

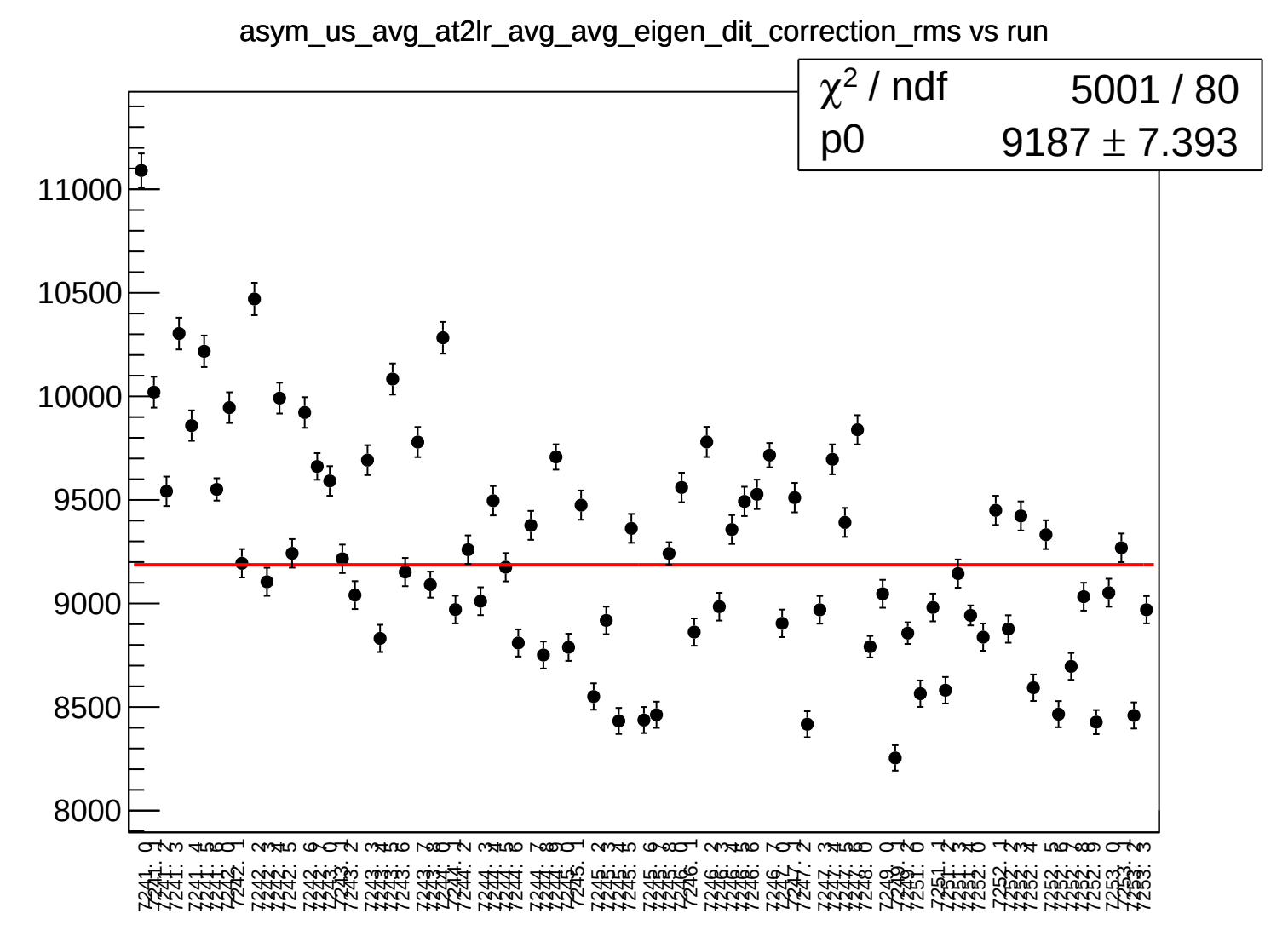

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 75.12 / 80
p0 3722 ± 2436
pull
Entries 81
Mean −235
Std Dev 0

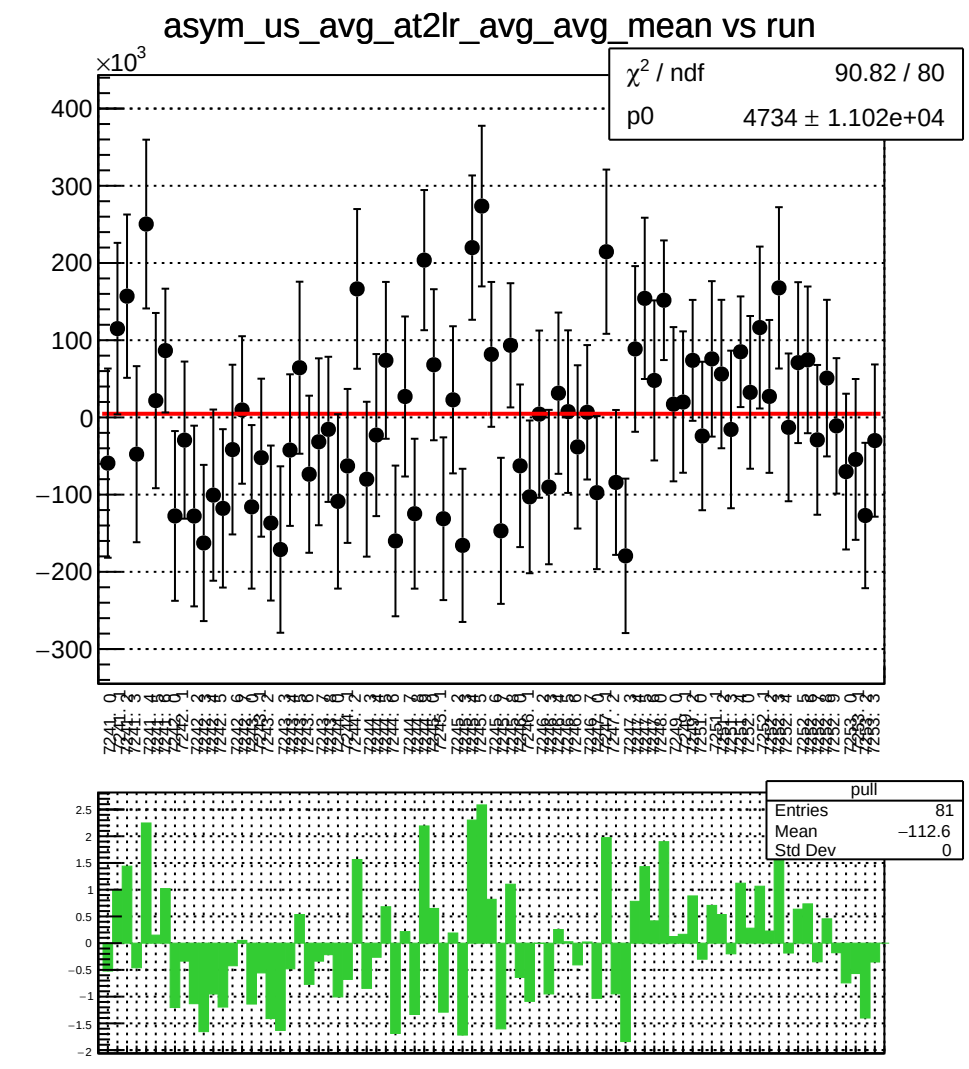

pull1D
Entries 81
Mean −0.006036
Std Dev 0.963

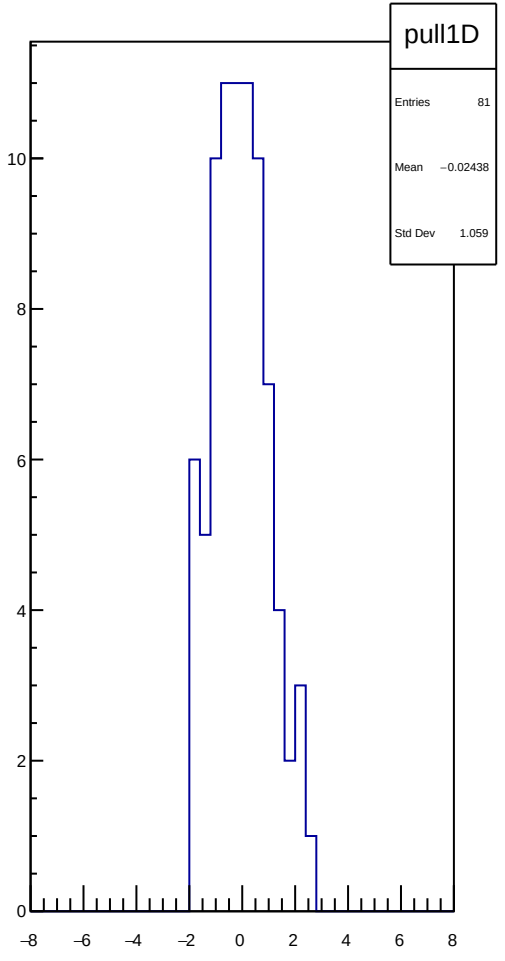

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 190.6 / 80
p0 2144 ± 1.723
2240
2220
2200
2180
2160
2140
2120
2100
2080

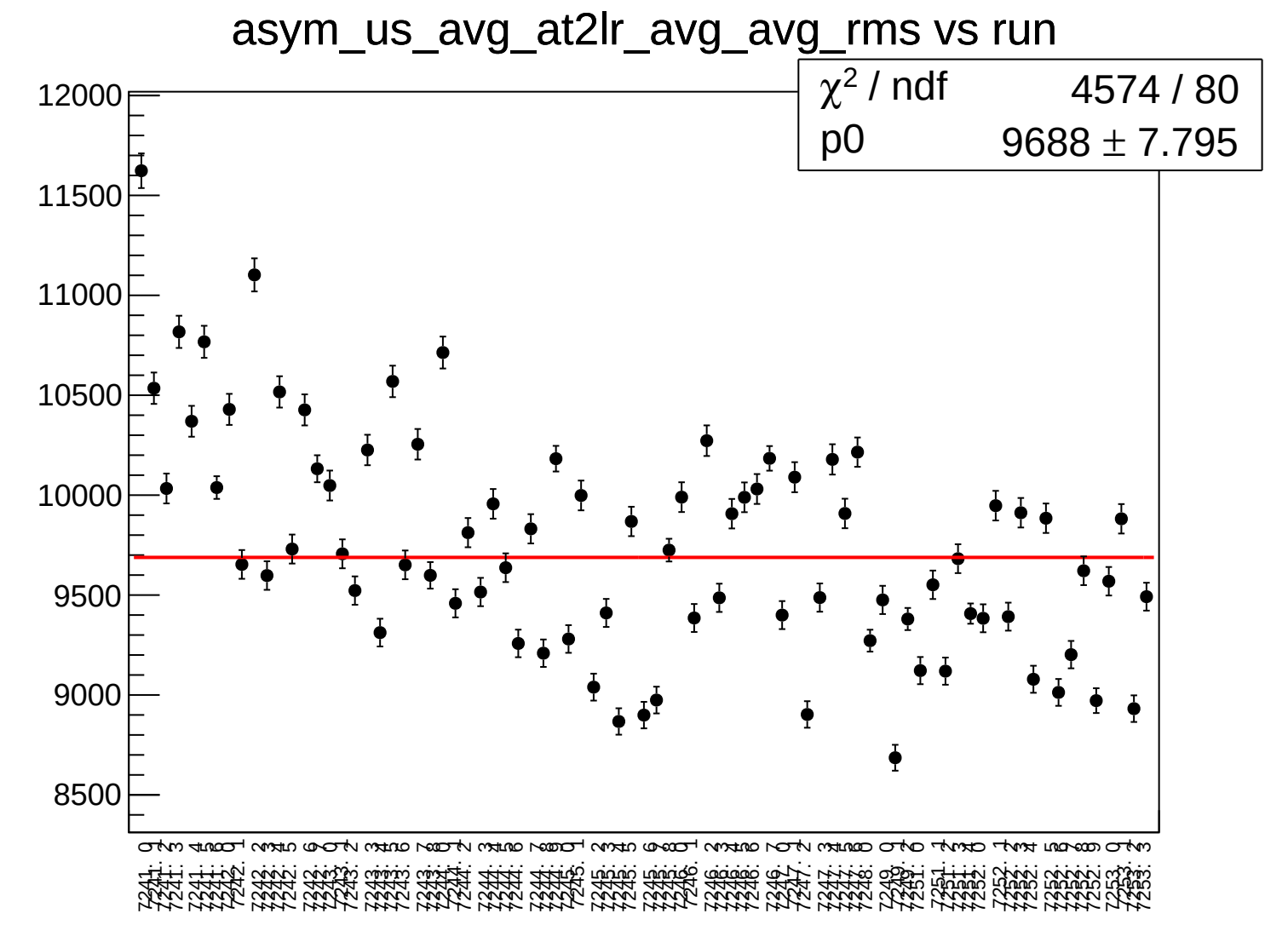

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 95.62 / 80
p0 −1265 ± 1.046e+04
300
200
100
0
−100
−200
−300
−400
pull
Entries 81
Mean −97.42
Std Dev 0
2
1
0
−1
−2

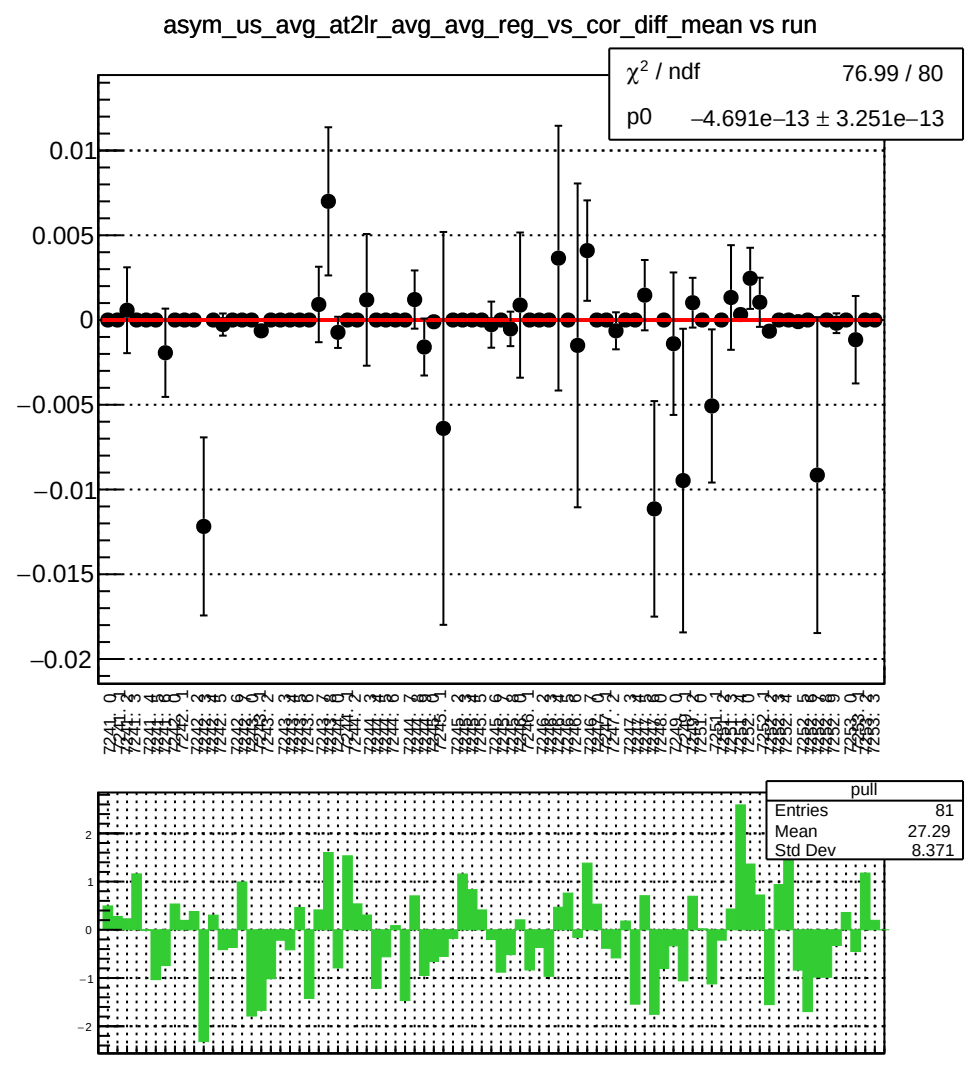

pull1D
Entries 81
Mean 0.02536
Std Dev 1.086
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

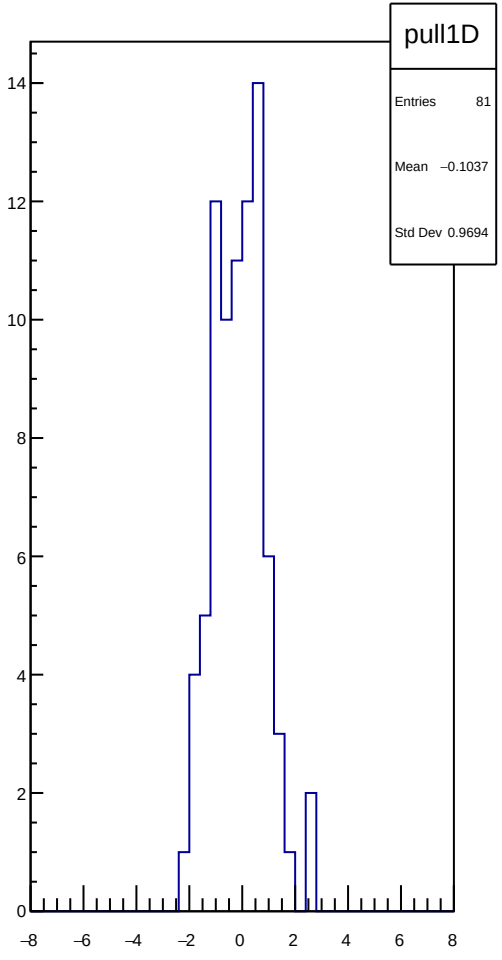

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 5001 / 80
p0 9187 ± 7.393
11000
10500
10000
9500
9000
8500
8000

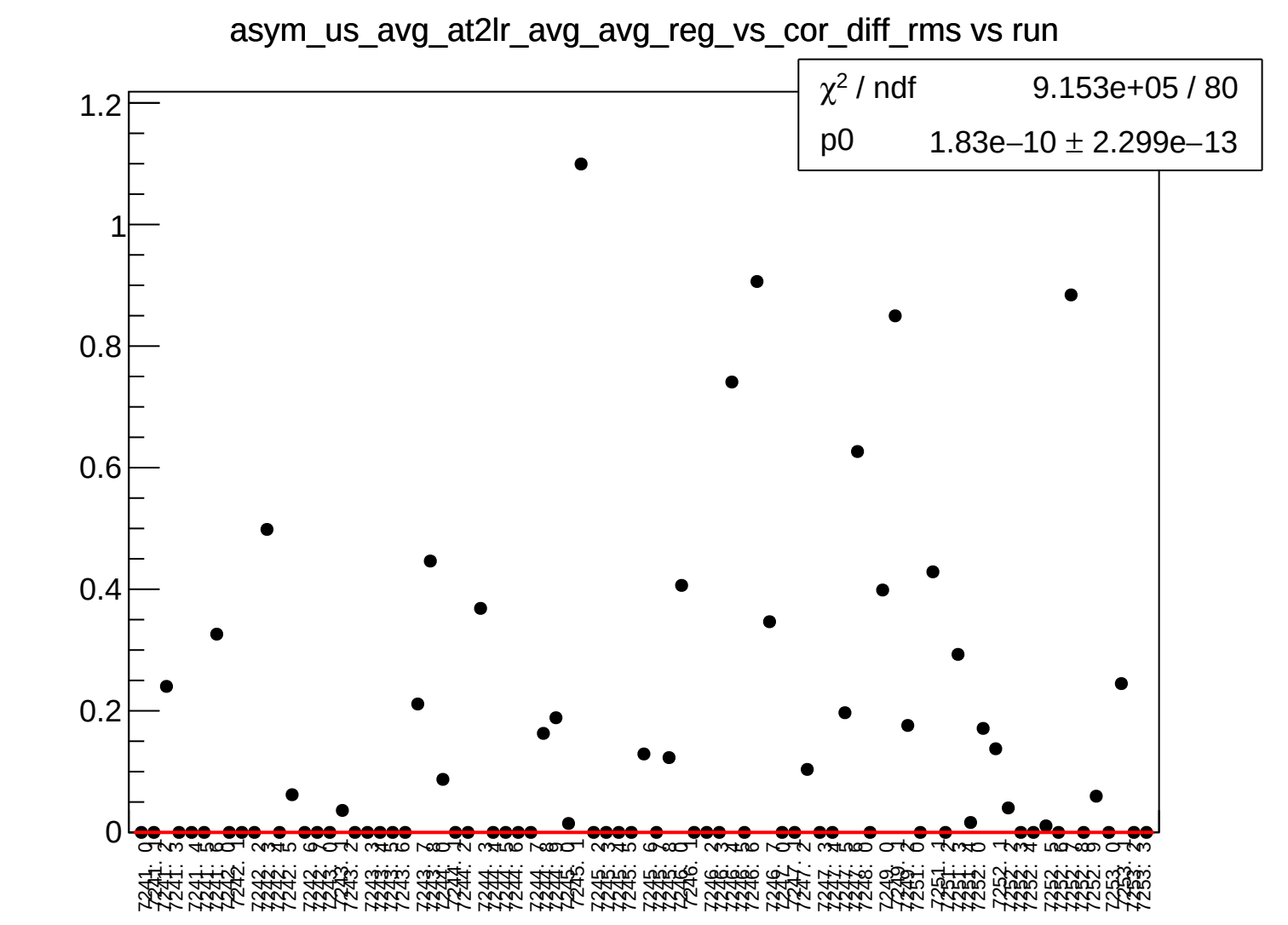

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 90.82 / 80
p0 4734 ± 1.102e+04
pull
Entries 81
Mean −112.6
Std Dev 0

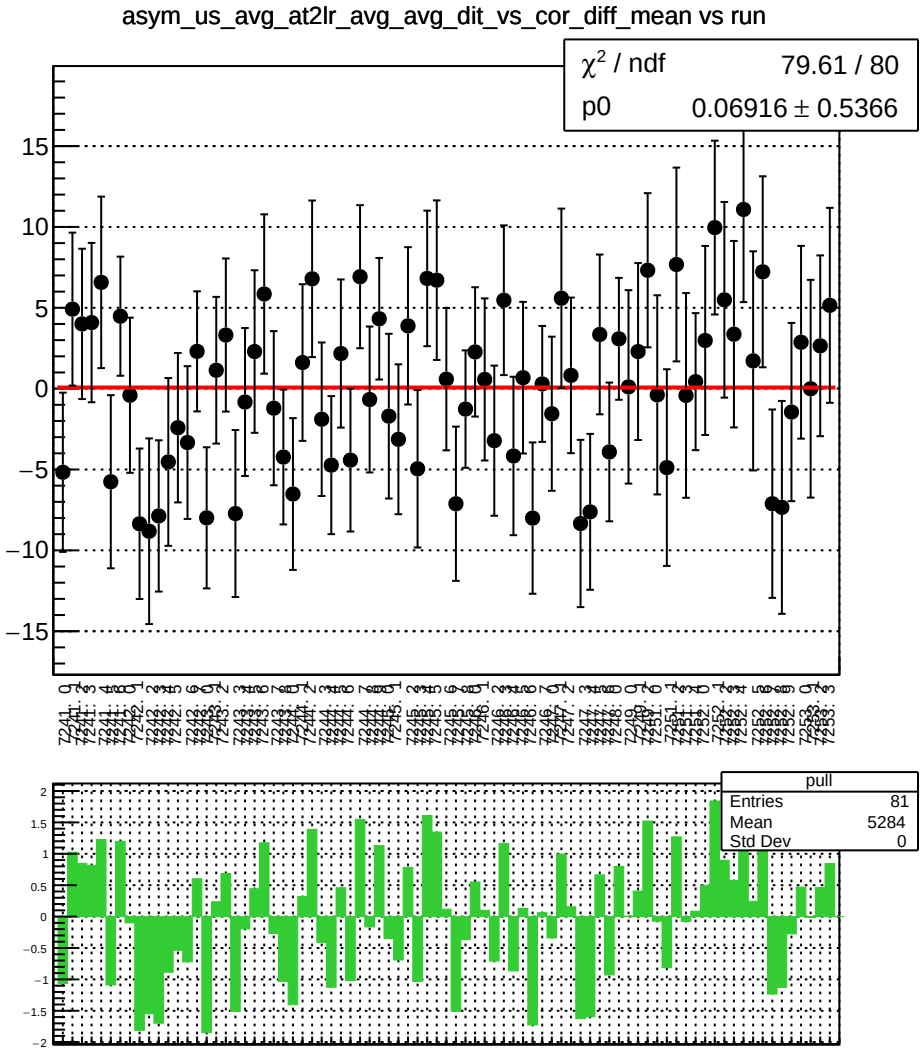

pull1D
Entries 81
Mean −0.02438
Std Dev 1.059

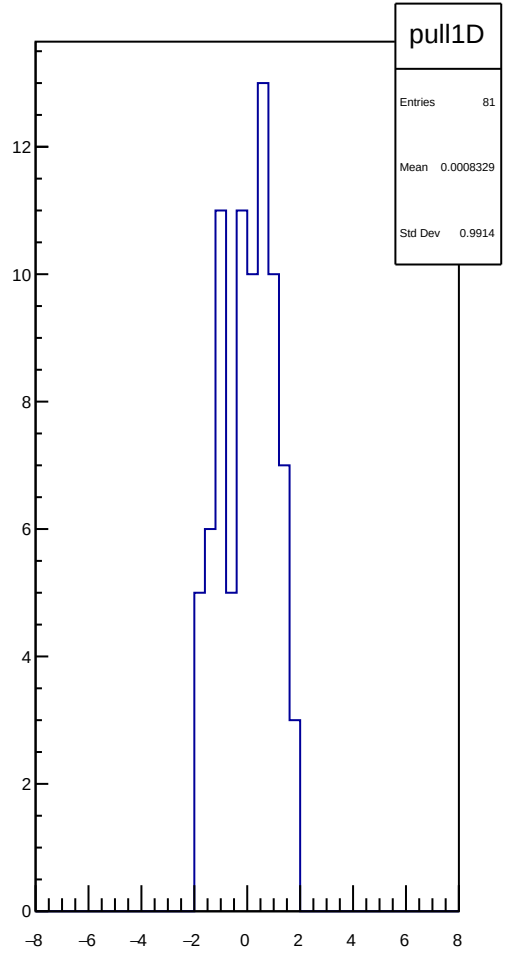

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 4574 / 80
p0 9688 ± 7.795
12000
11500
11000
10500
10000
9500
9000
8500

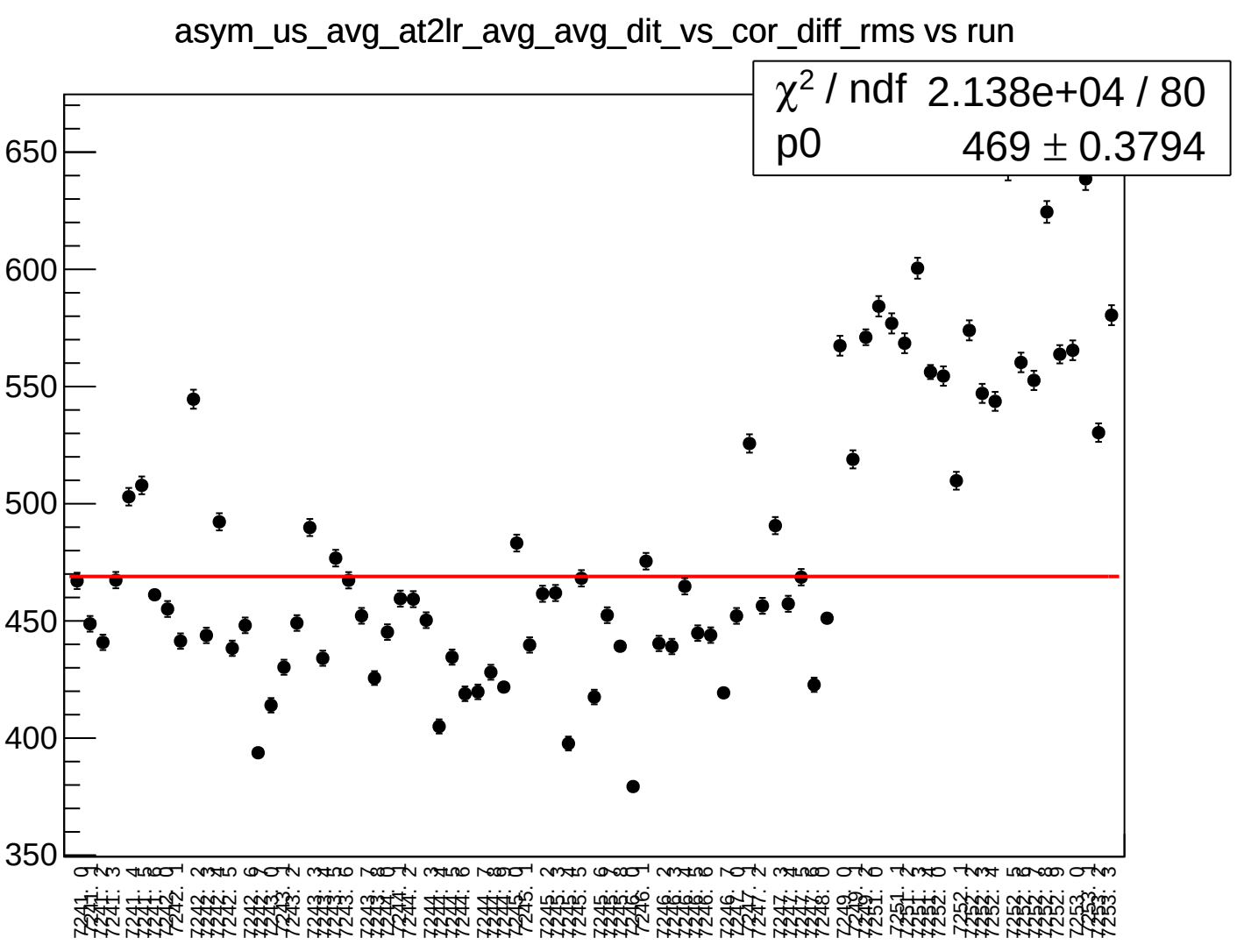

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 76.99 / 80
p0 −4.691e−13 ± 3.251e−13
pull
Entries 81
Mean 27.29
Std Dev 8.371

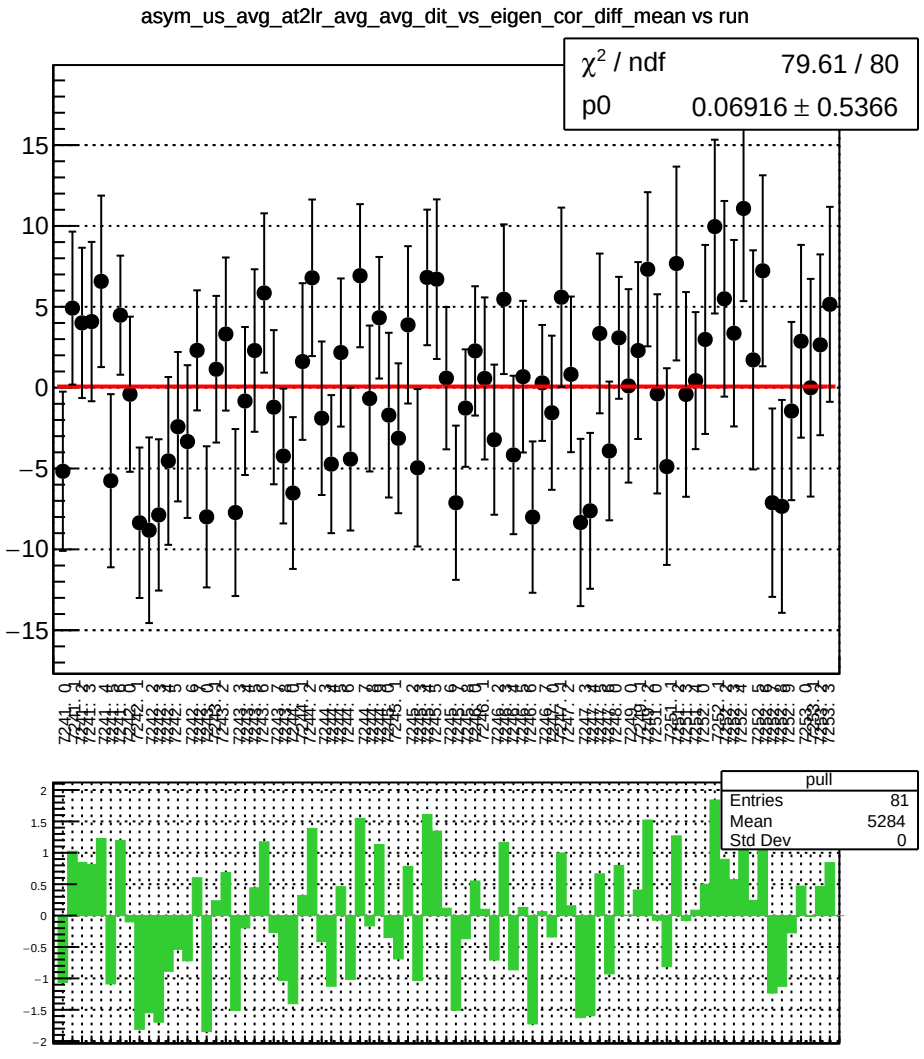

pull1D
Entries 81
Mean −0.1037
Std Dev 0.9694

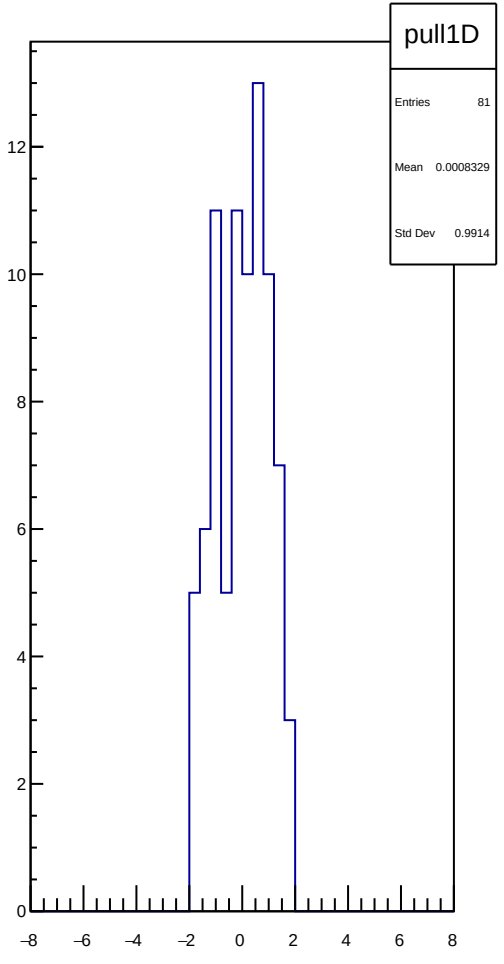

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.153e+05 / 80
p0 1.83e−10 ± 2.299e−13
1.2
1
0.8
0.6
0.4
0.2
0

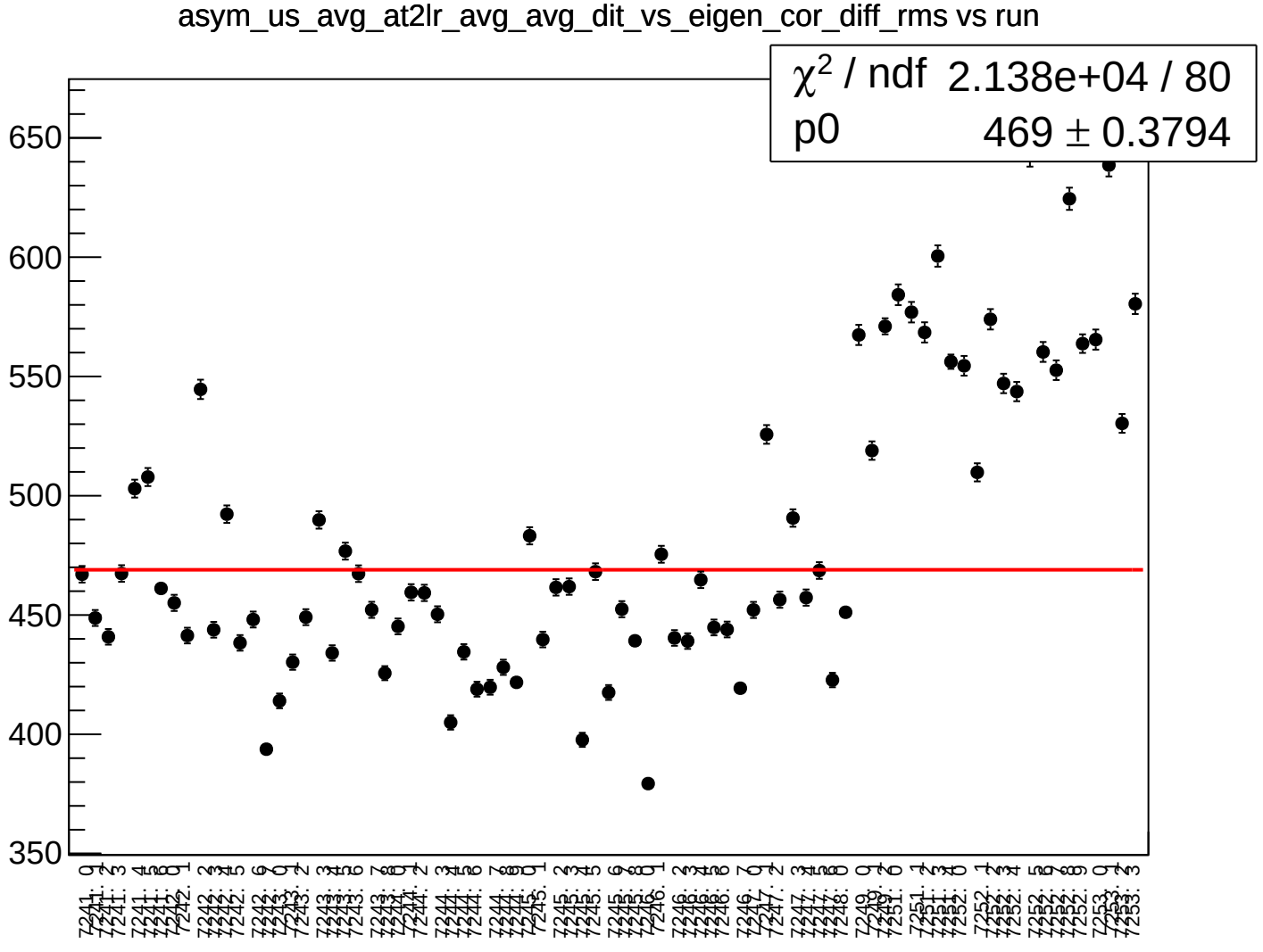

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 79.61 / 80
p0 0.06916 ± 0.5366
pull
Entries 81
Mean 5284
Std Dev 0

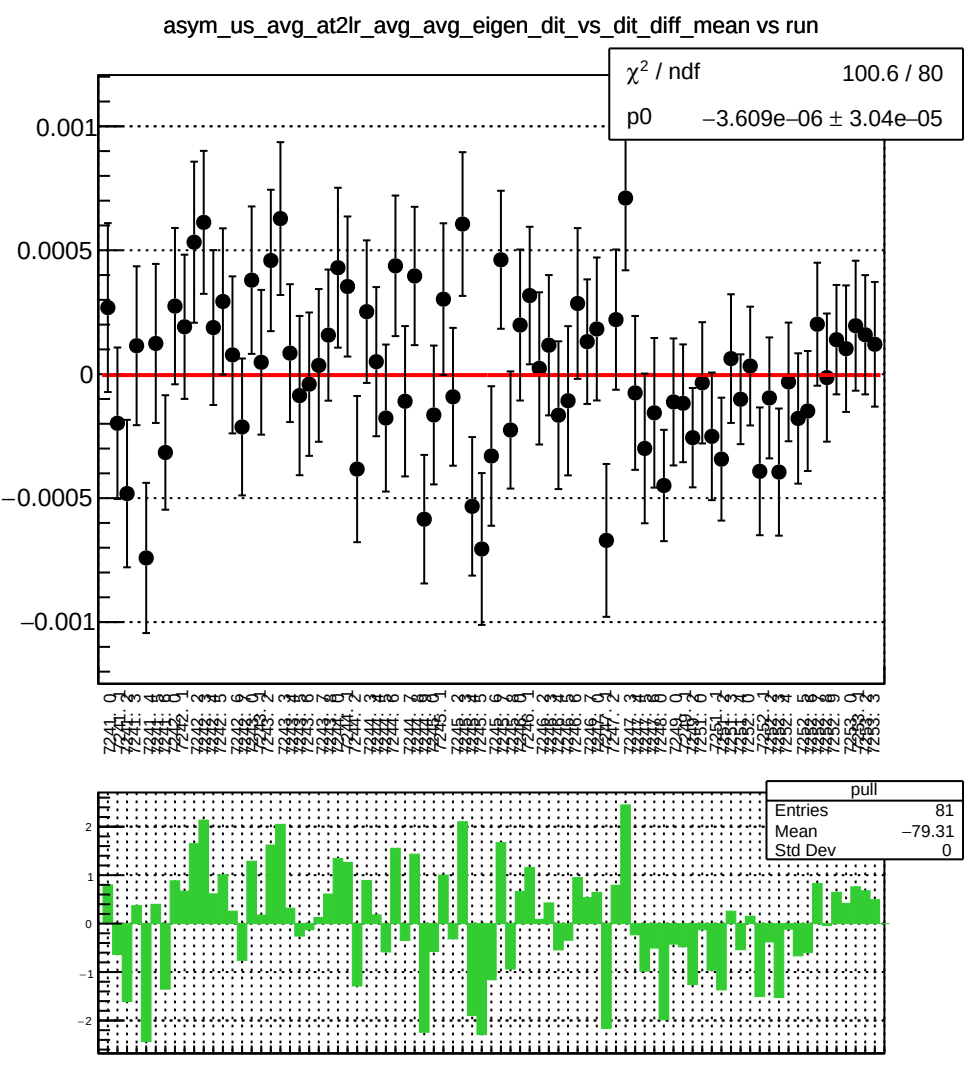

pull1D
Entries 81
Mean 0.0008329
Std Dev 0.9914

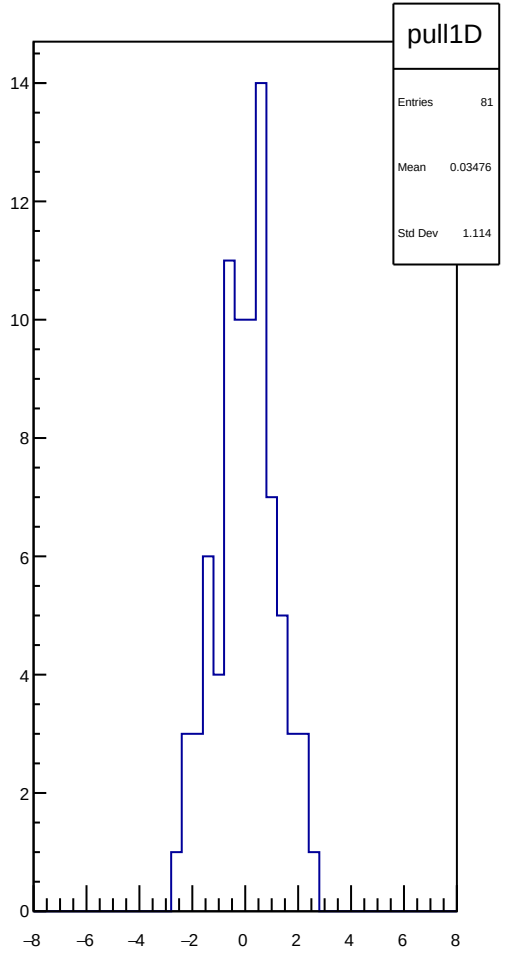

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.138e+04 / 80
p0 469 ± 0.3794
650
600
550
500
450
400
350

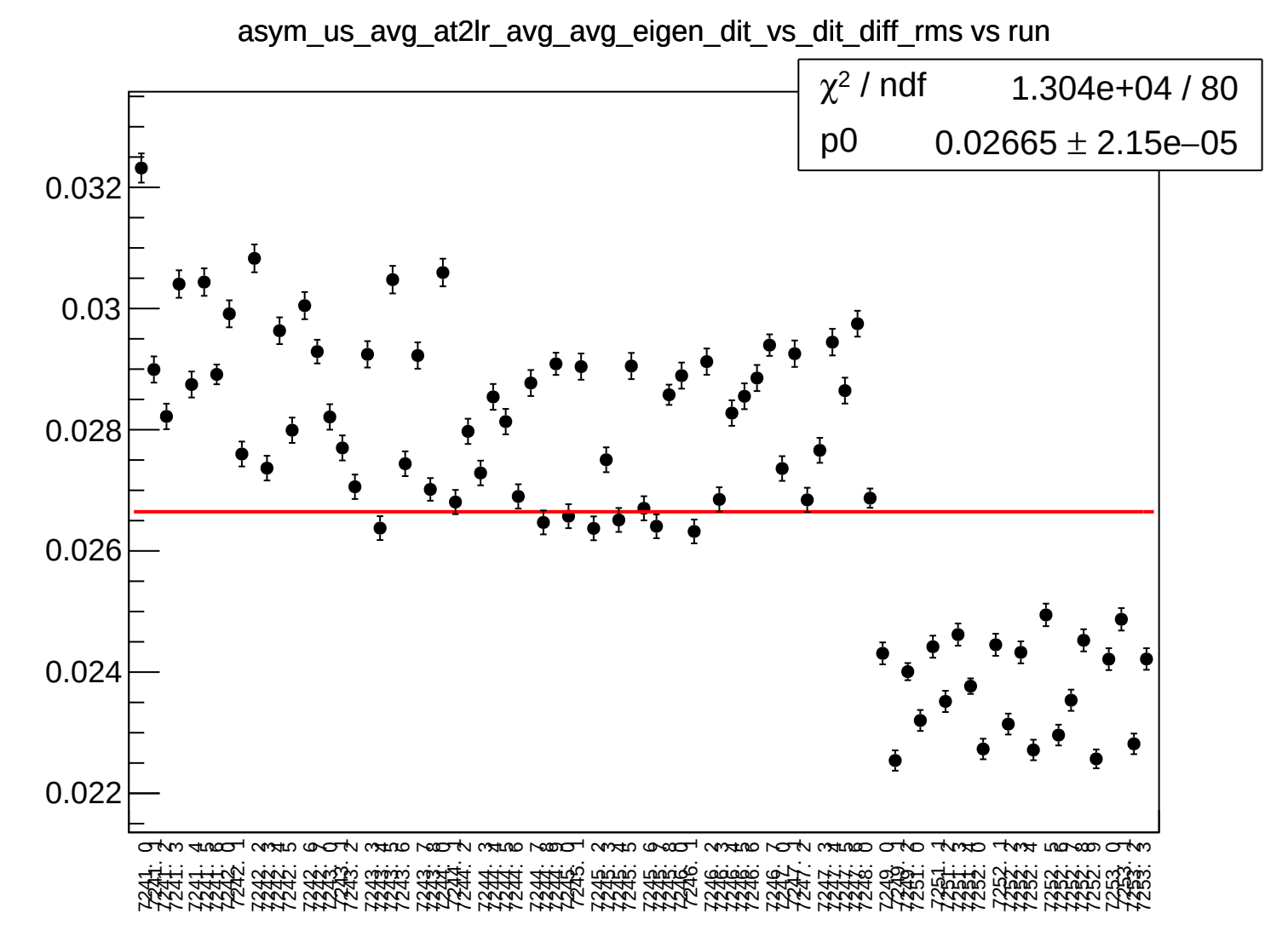

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.61 / 80
p0 0.06916 ± 0.5366
pull
Entries 81
Mean 5284
Std Dev 0

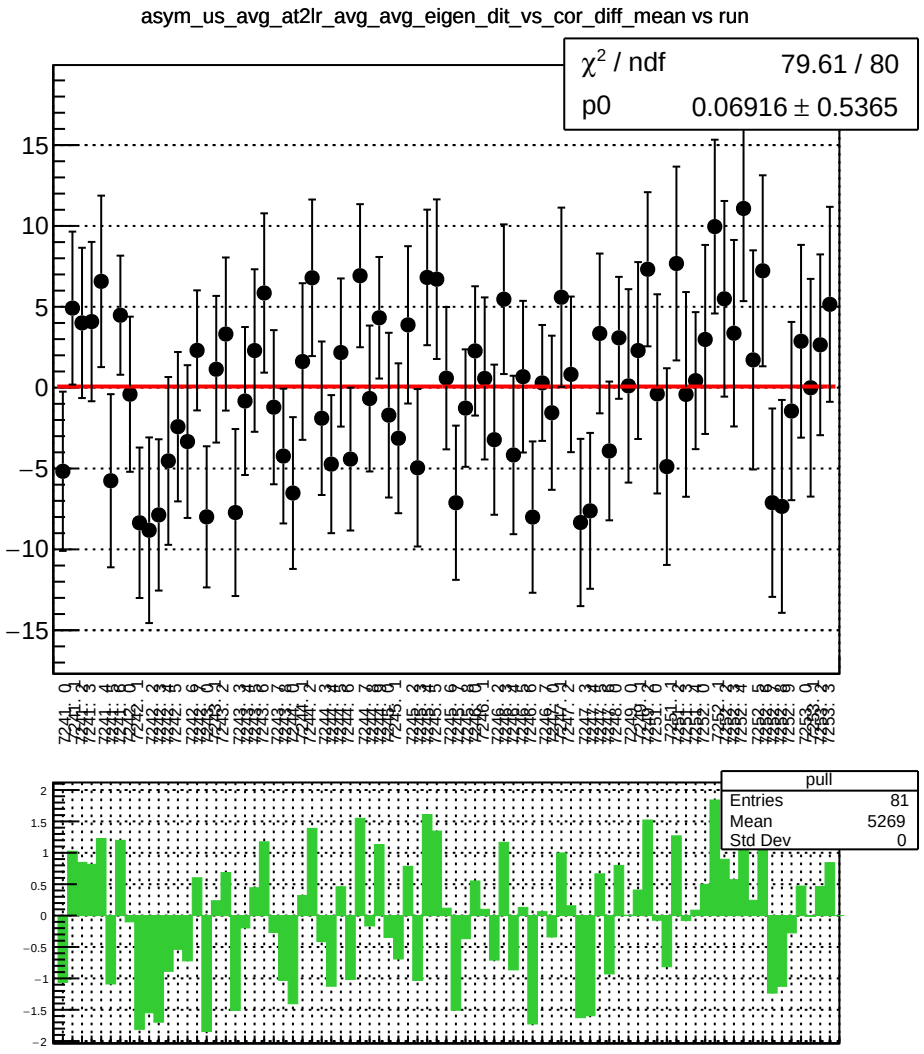

pull1D
Entries 81
Mean 0.0008329
Std Dev 0.9914

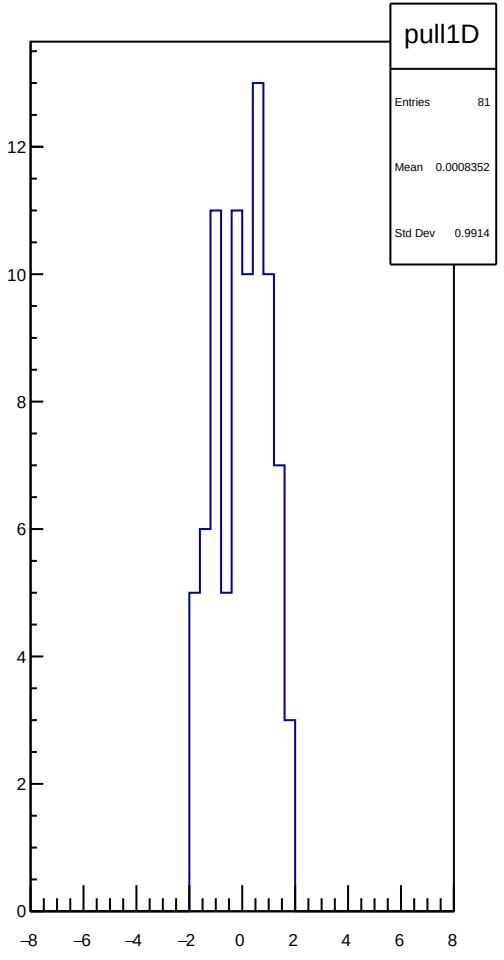

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.138e+04 / 80
p0 469 ± 0.3794
650
600
550
500
450
400
350

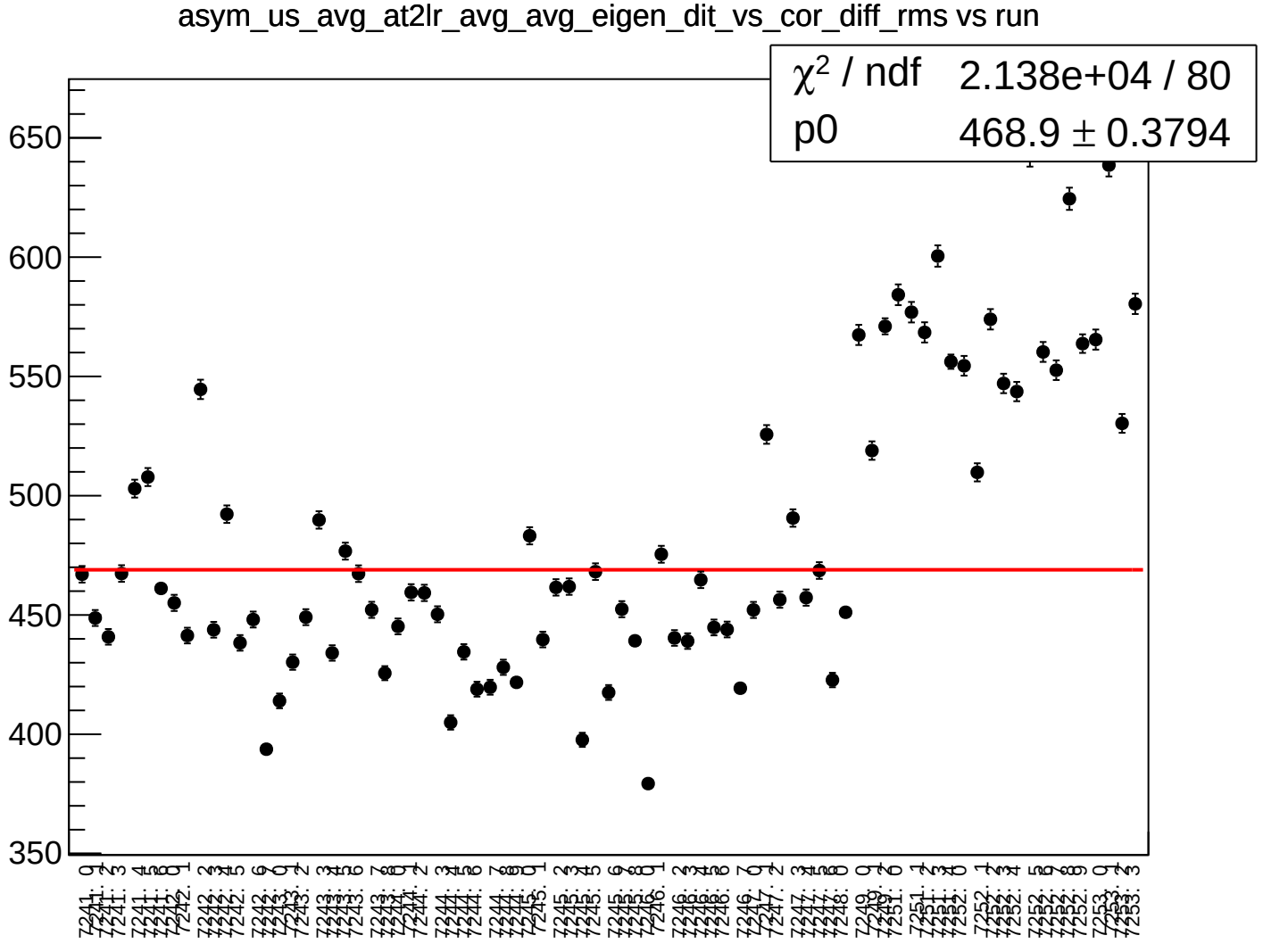

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 100.6 / 80
p0 −3.609e−06 ± 3.04e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 81
Mean −79.31
Std Dev 0
2
1
0
−1
−2

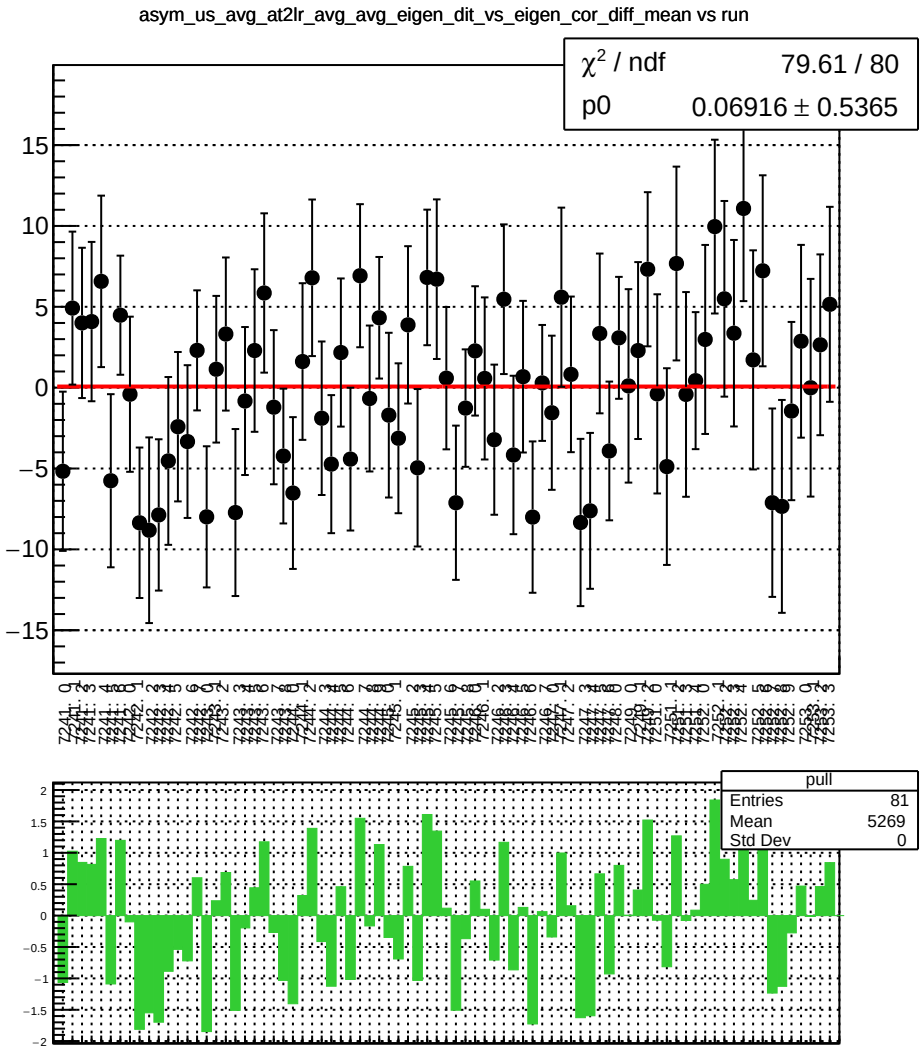

pull1D
Entries 81
Mean 0.03476
Std Dev 1.114
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

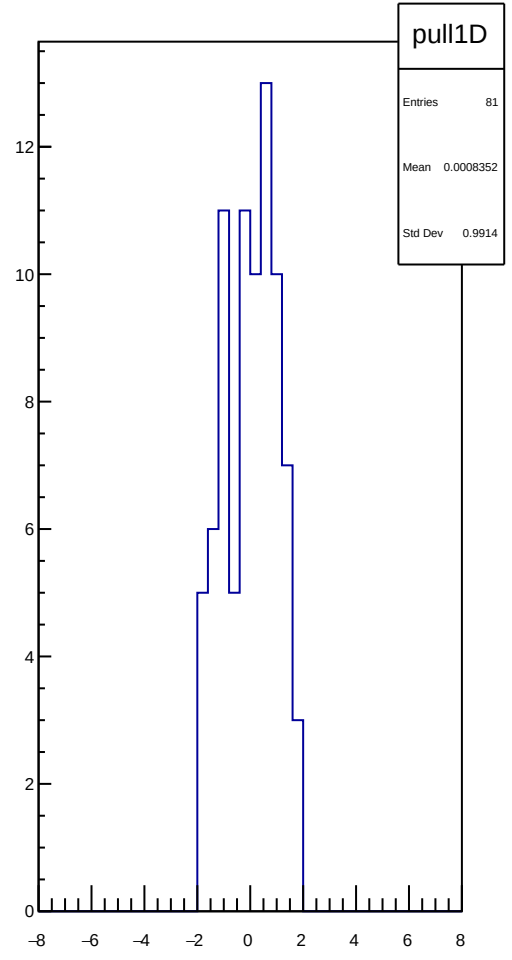

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.304e+04 / 80
p0 0.02665 ± 2.15e−05
0.032
0.03
0.028
0.026
0.024
0.022

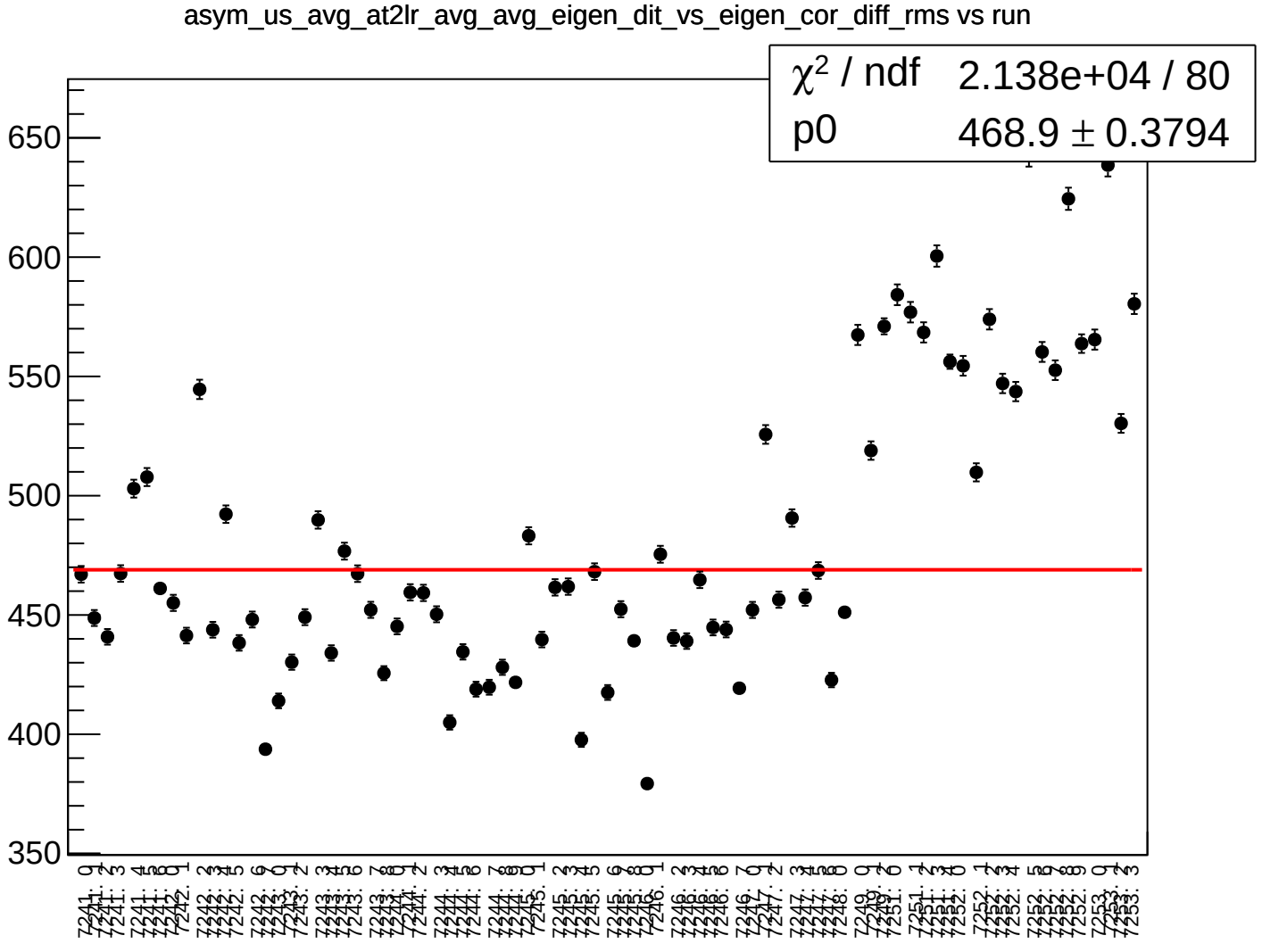

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.61 / 80
p0 0.06916 ± 0.5365
pull
Entries 81
Mean 5269
Std Dev 0

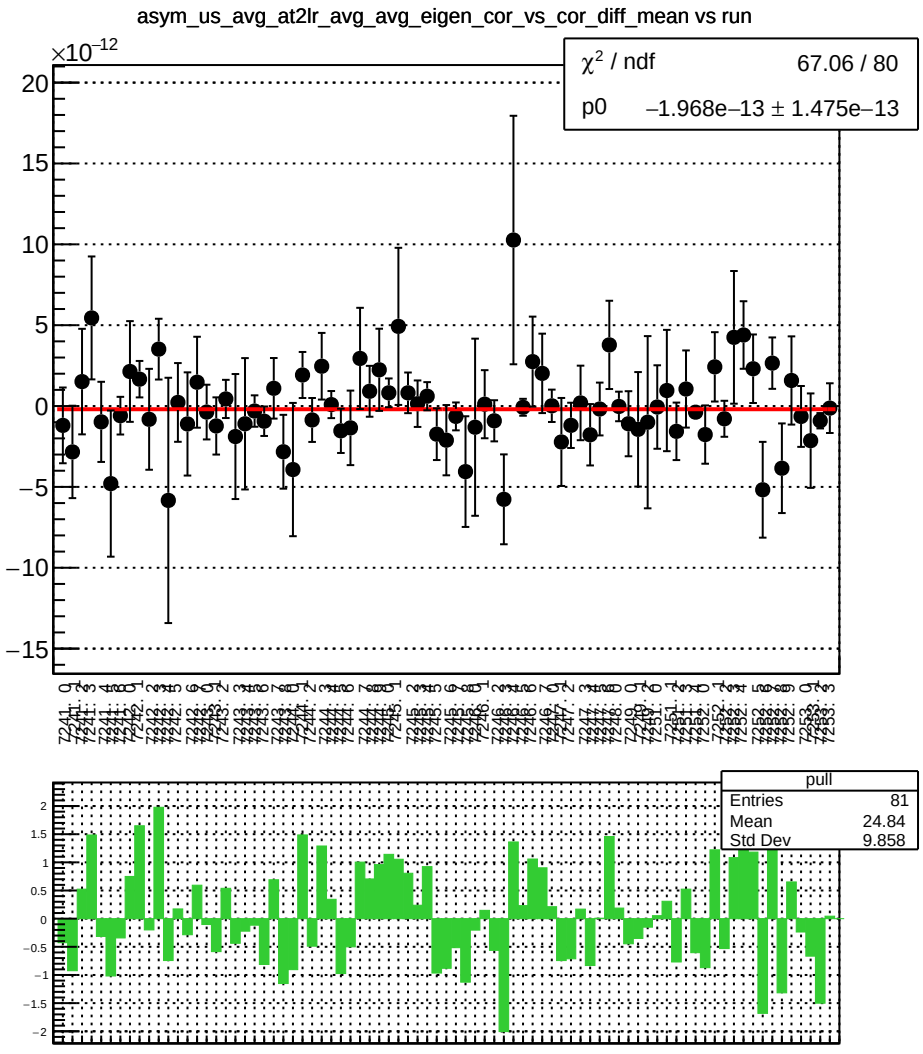

pull1D
Entries 81
Mean 0.0008352
Std Dev 0.9914

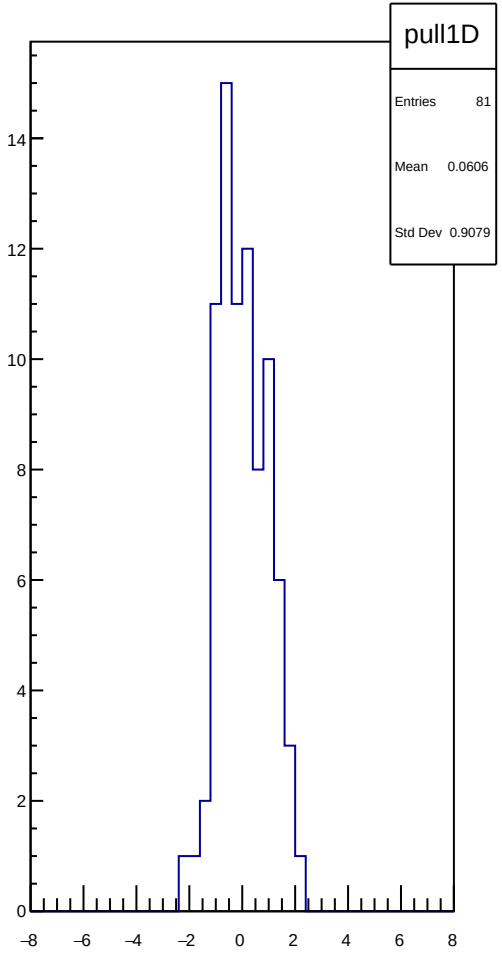

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.138e+04 / 80
p0 468.9 ± 0.3794
650
600
550
500
450
400
350

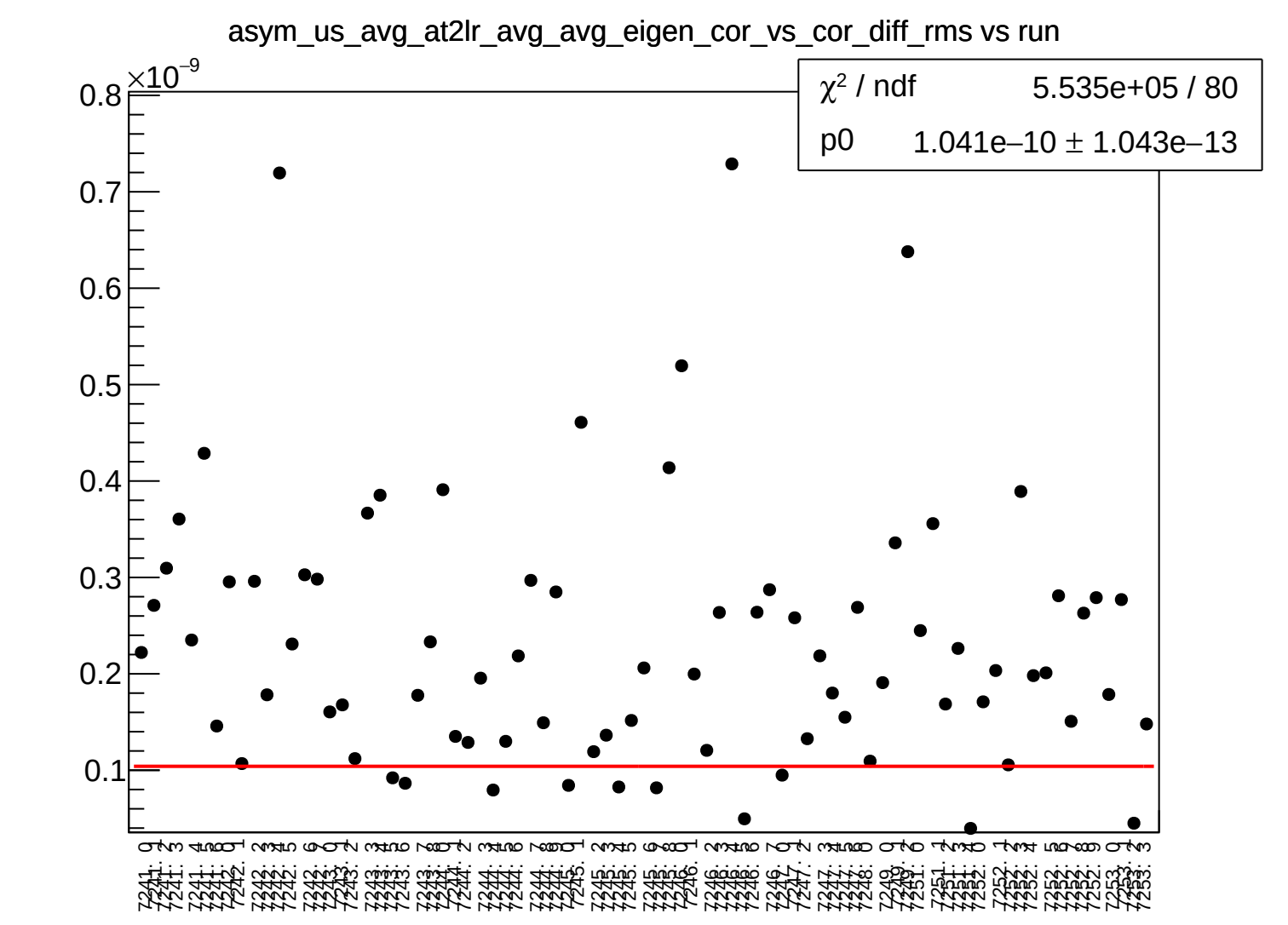

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.61 / 80
p0 0.06916 ± 0.5365
pull
Entries 81
Mean 5269
Std Dev 0

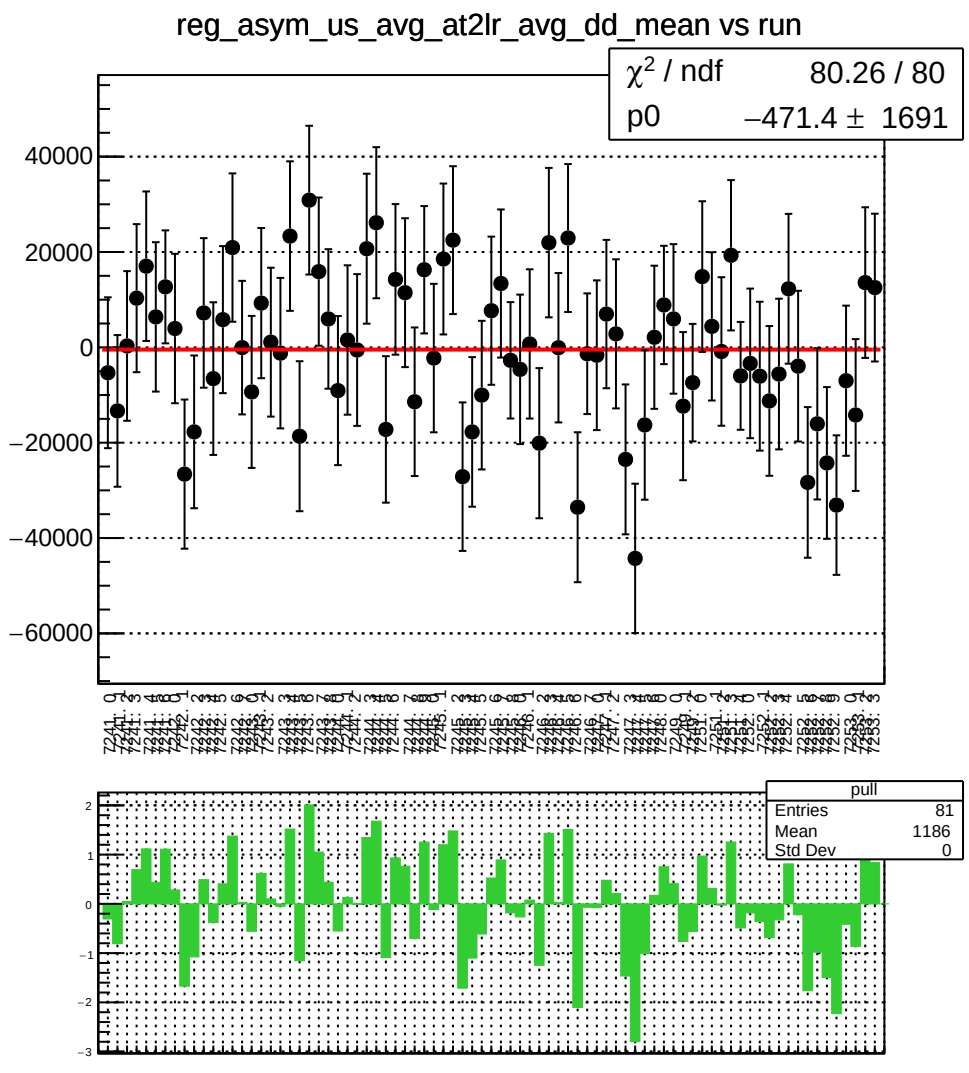

pull1D
Entries 81
Mean 0.0008352
Std Dev 0.9914

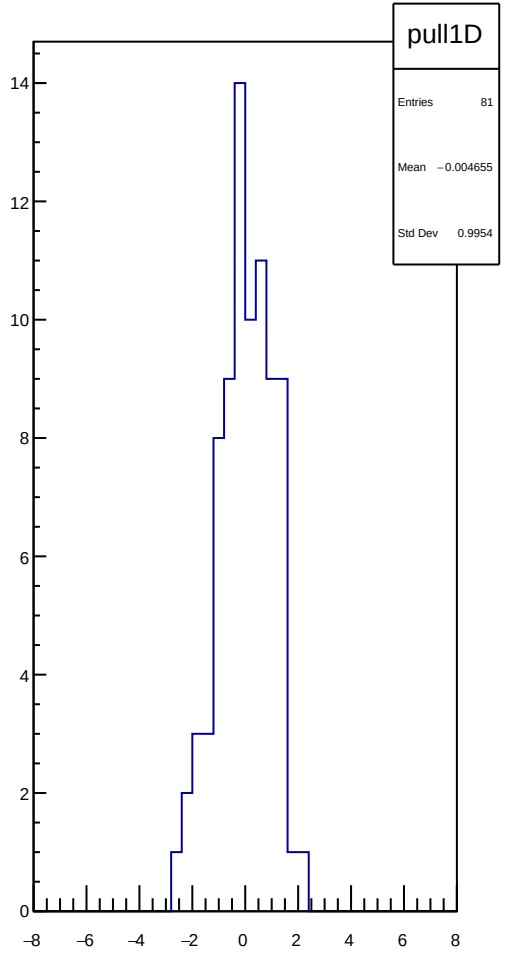

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.138e+04 / 80
p0 468.9 ± 0.3794
650
600
550
500
450
400
350

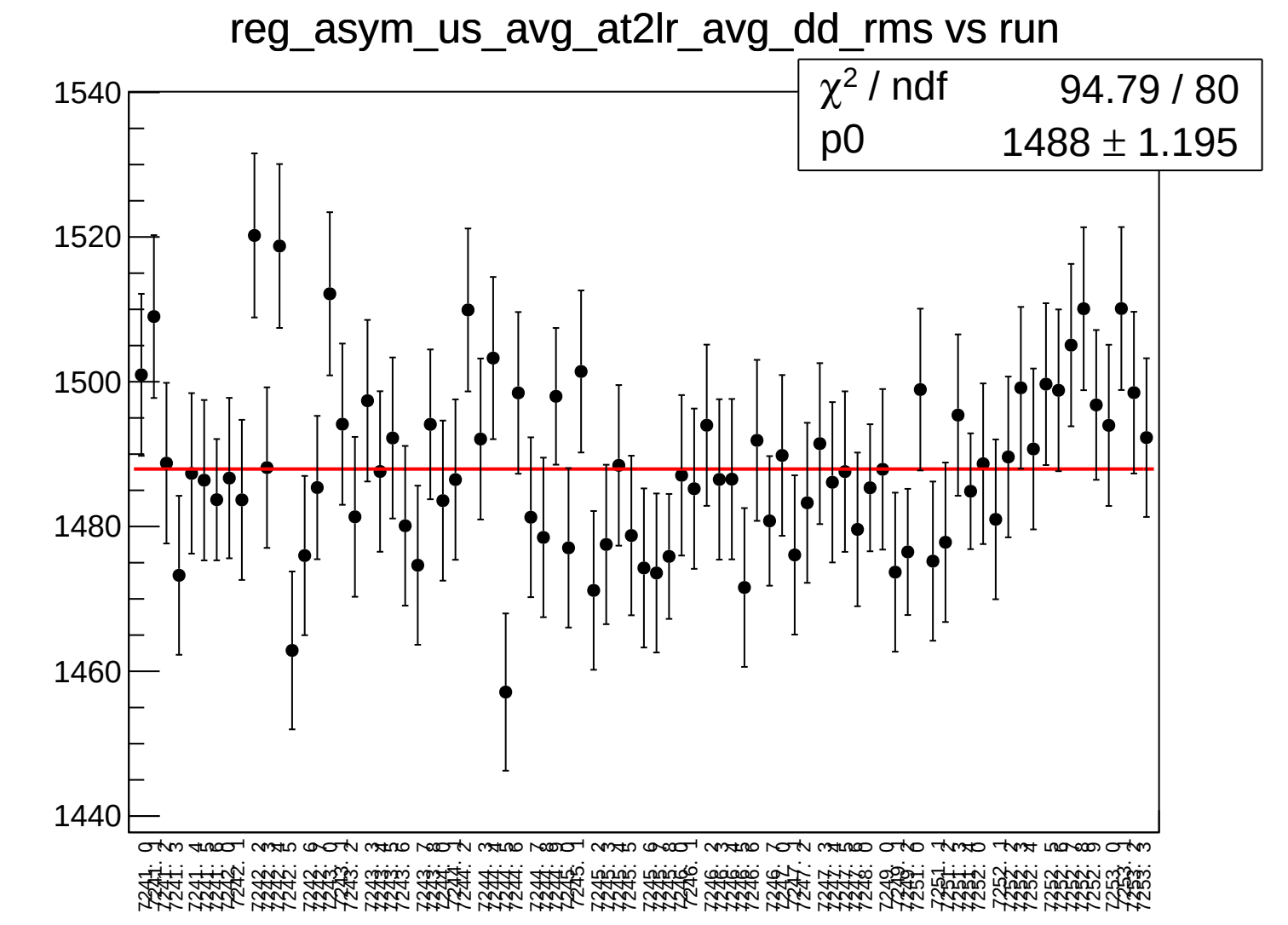

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 67.06 / 80
p0 −1.968e−13 ± 1.475e−13
pull
Entries 81
Mean 24.84
Std Dev 9.858

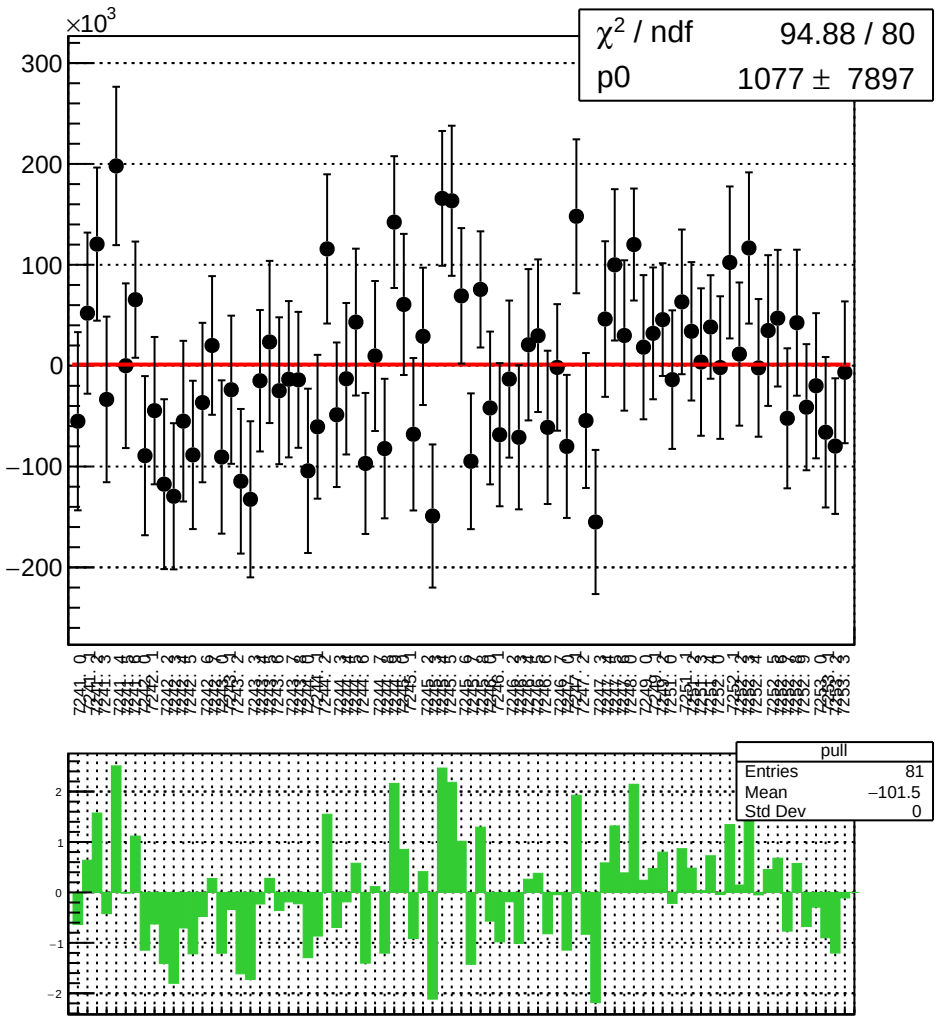

pull1D
Entries 81
Mean 0.0606
Std Dev 0.9079

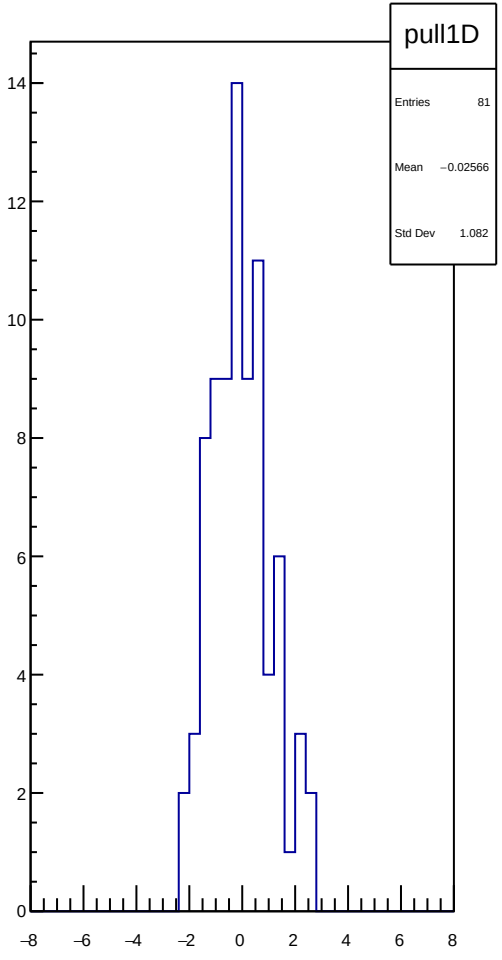

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 5.535e+05 / 80
p0 1.041e−10 ± 1.043e−13

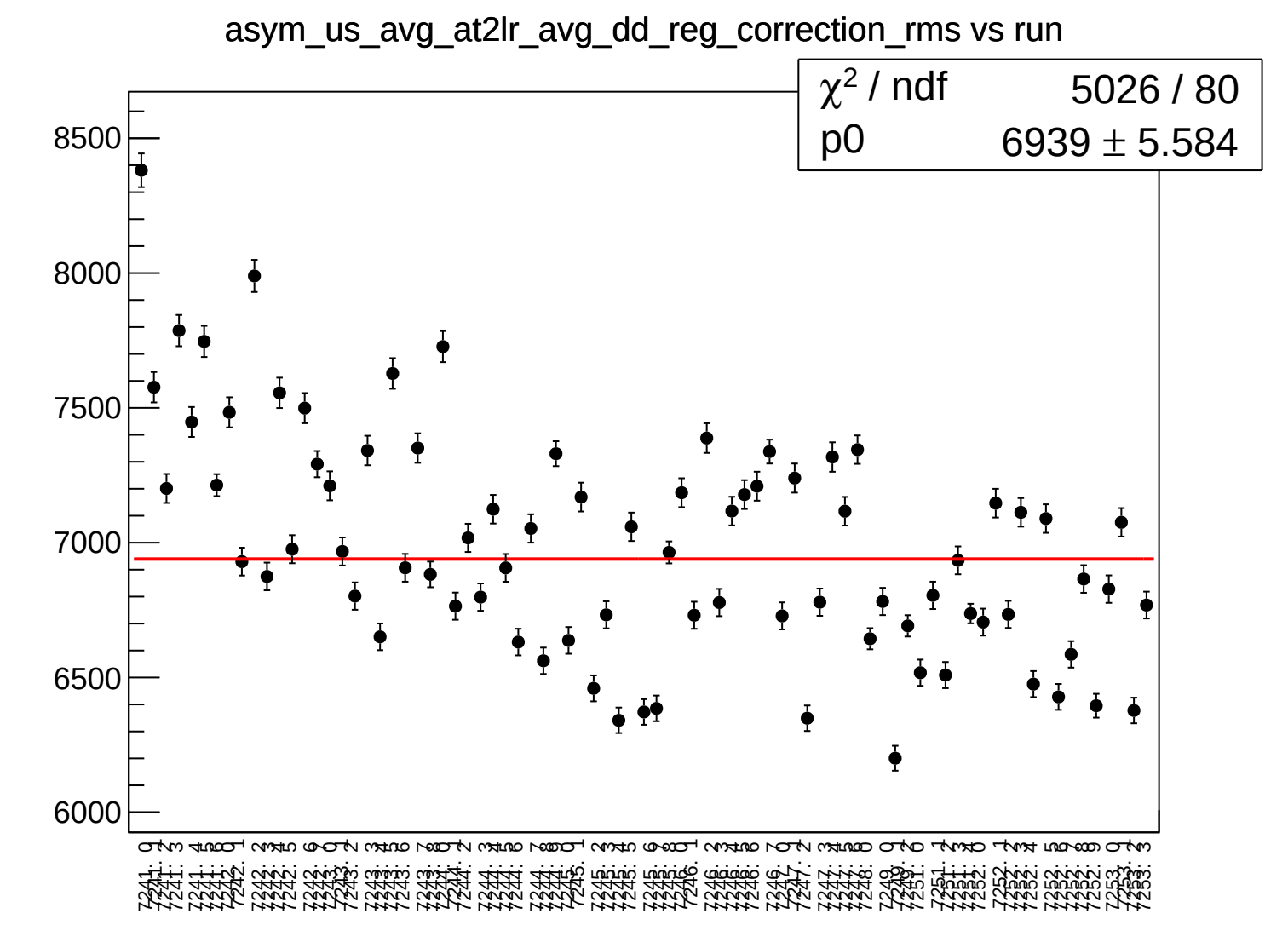

reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 80.26 / 80
p0 −471.4 ± 1691
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean 1186
Std Dev 0
2
1
0
−1
−2
−3

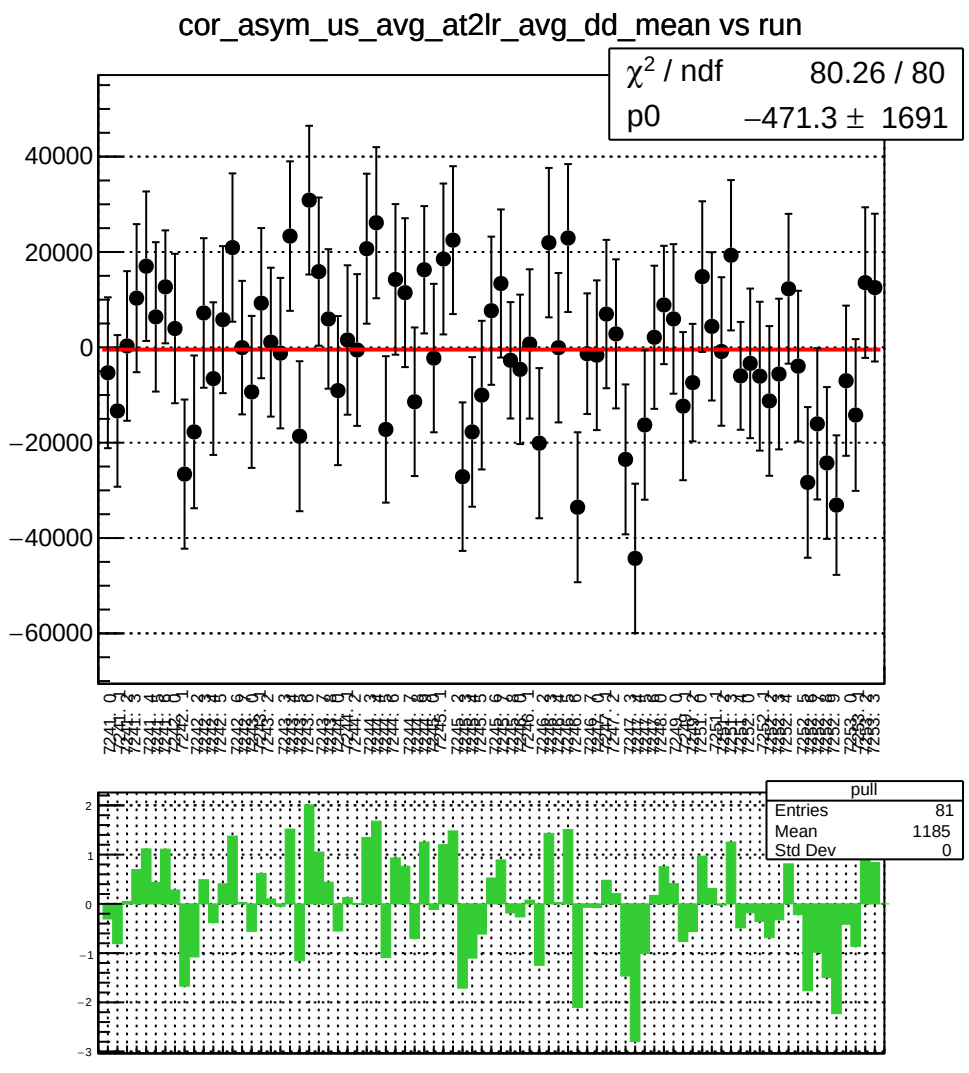

pull1D
Entries 81
Mean −0.004655
Std Dev 0.9954
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

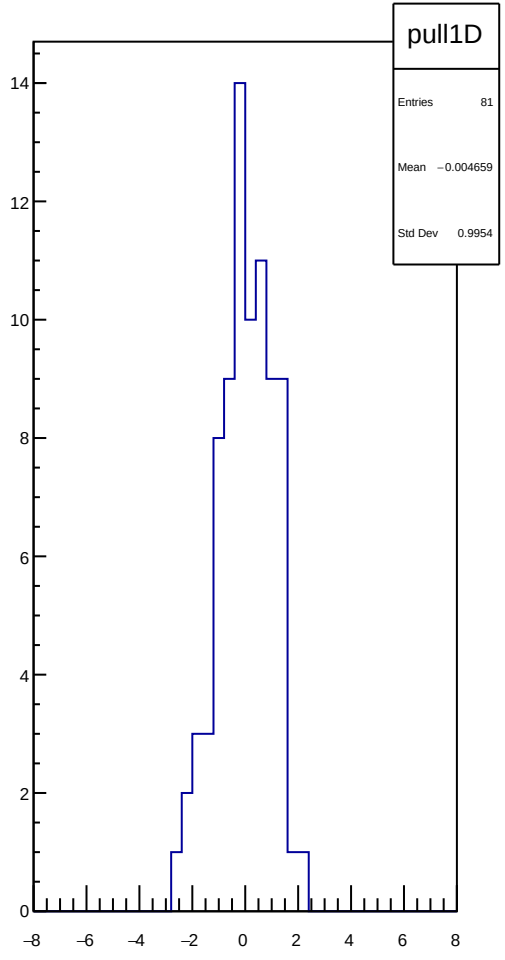

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 94.79 / 80
p0 1488 ± 1.195
1540
1520
1500
1480
1460
1440

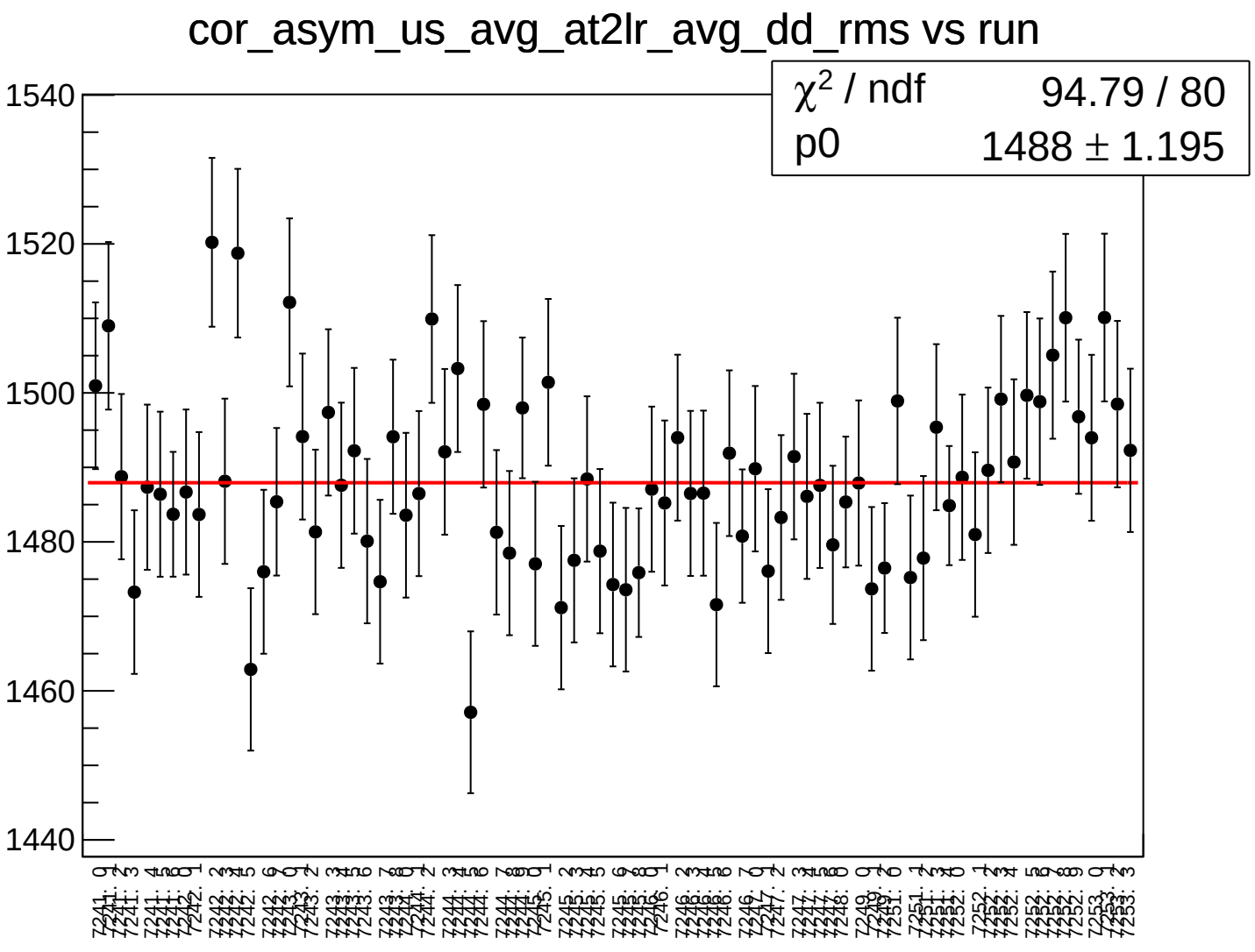

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 94.88 / 80
p0 1077 ± 7897
pull
Entries 81
Mean −101.5
Std Dev 0

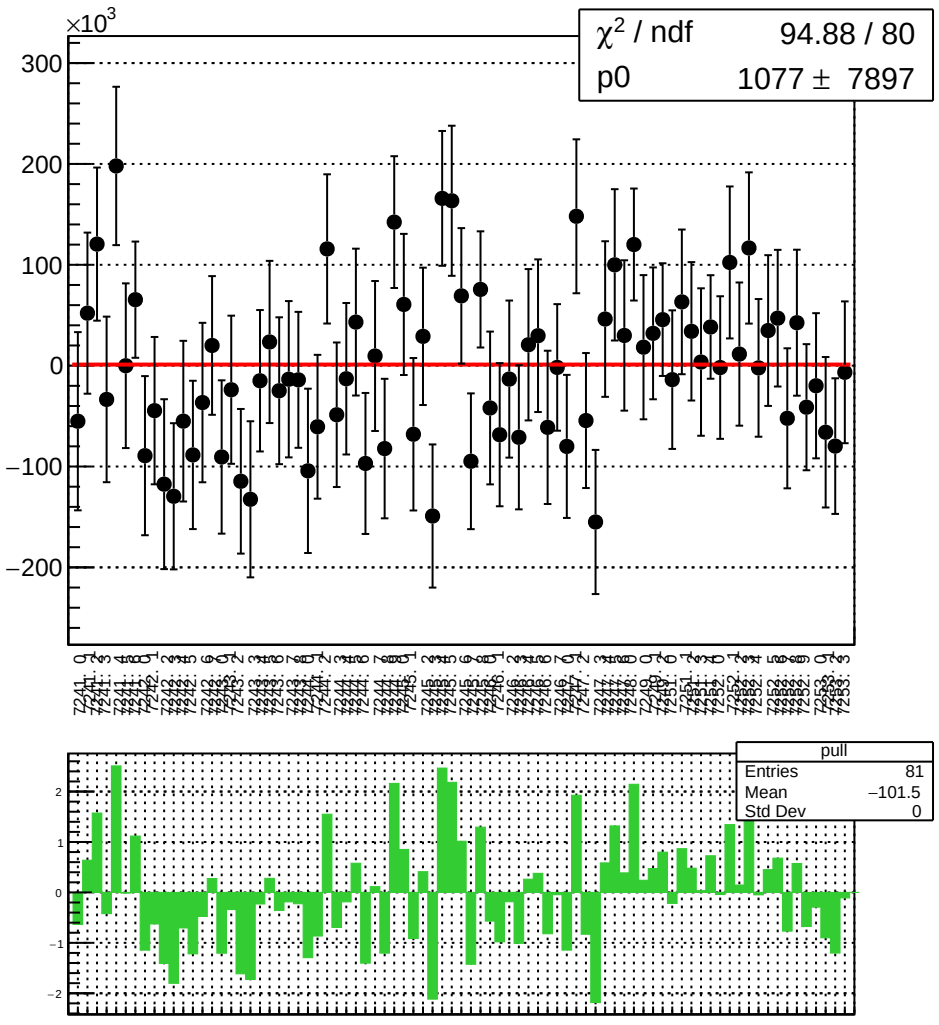

pull1D
Entries 81
Mean −0.02566
Std Dev 1.082

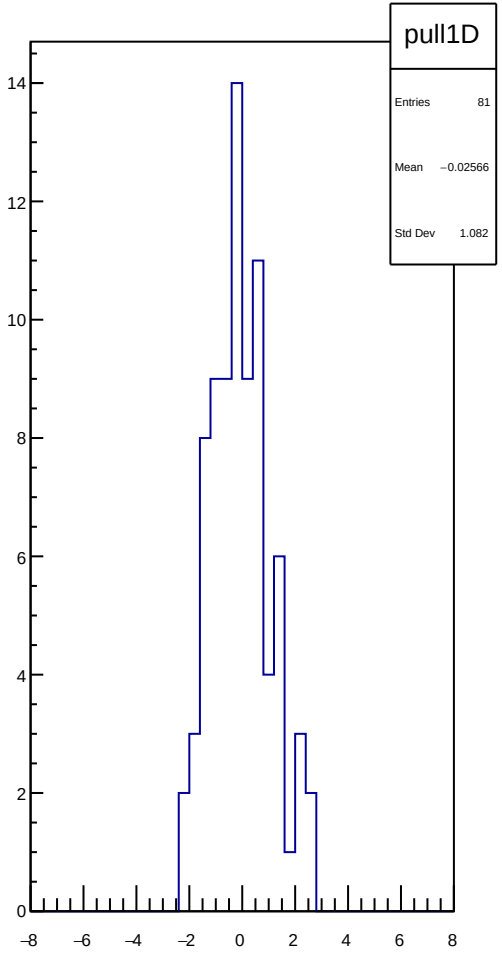

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 5026 / 80
p0 6939 ± 5.584
8500
8000
7500
7000
6500
6000

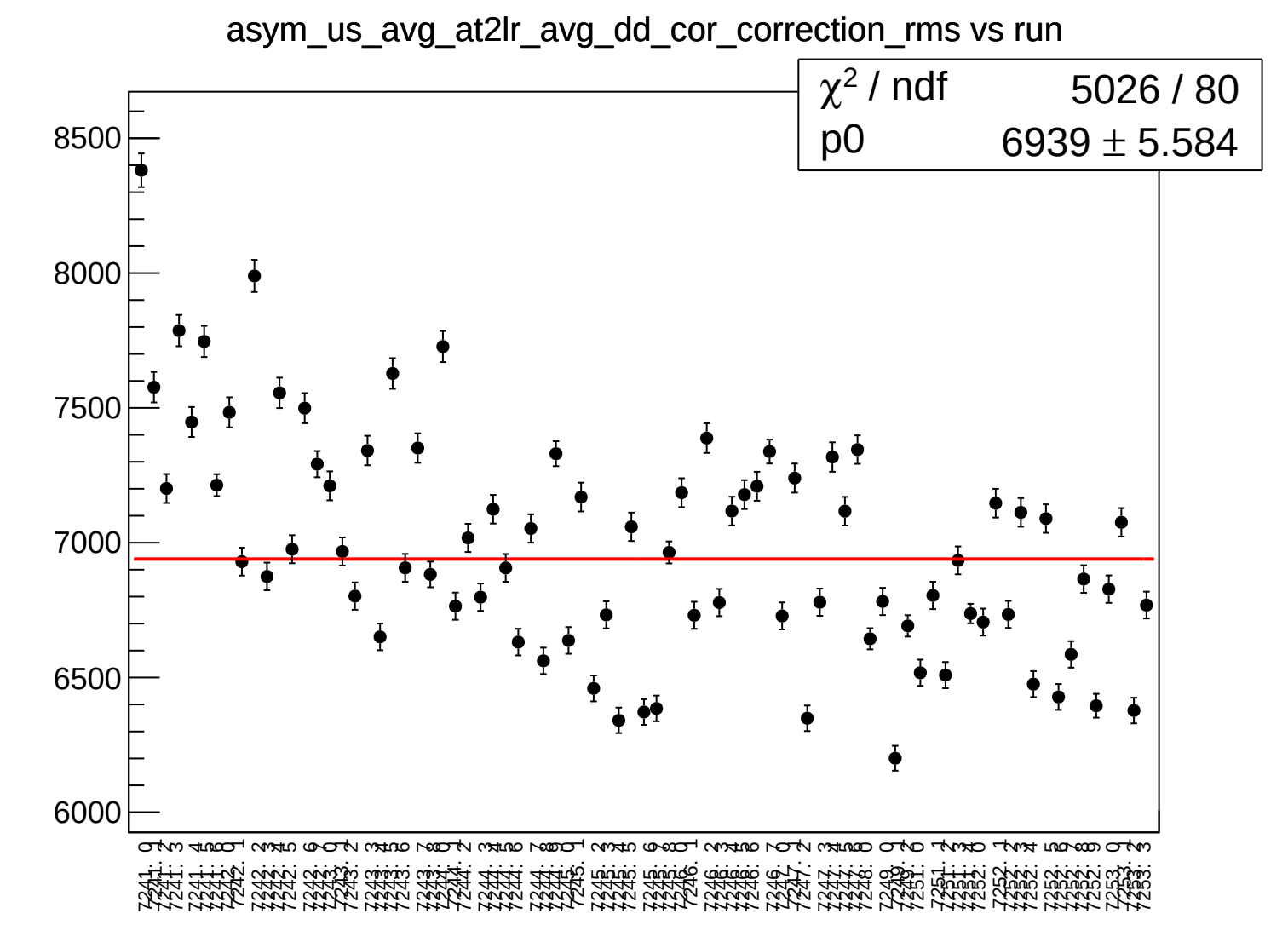

cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 80.26 / 80
p0 −471.3 ± 1691
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean 1185
Std Dev 0
2
1
0
−1
−2
−3

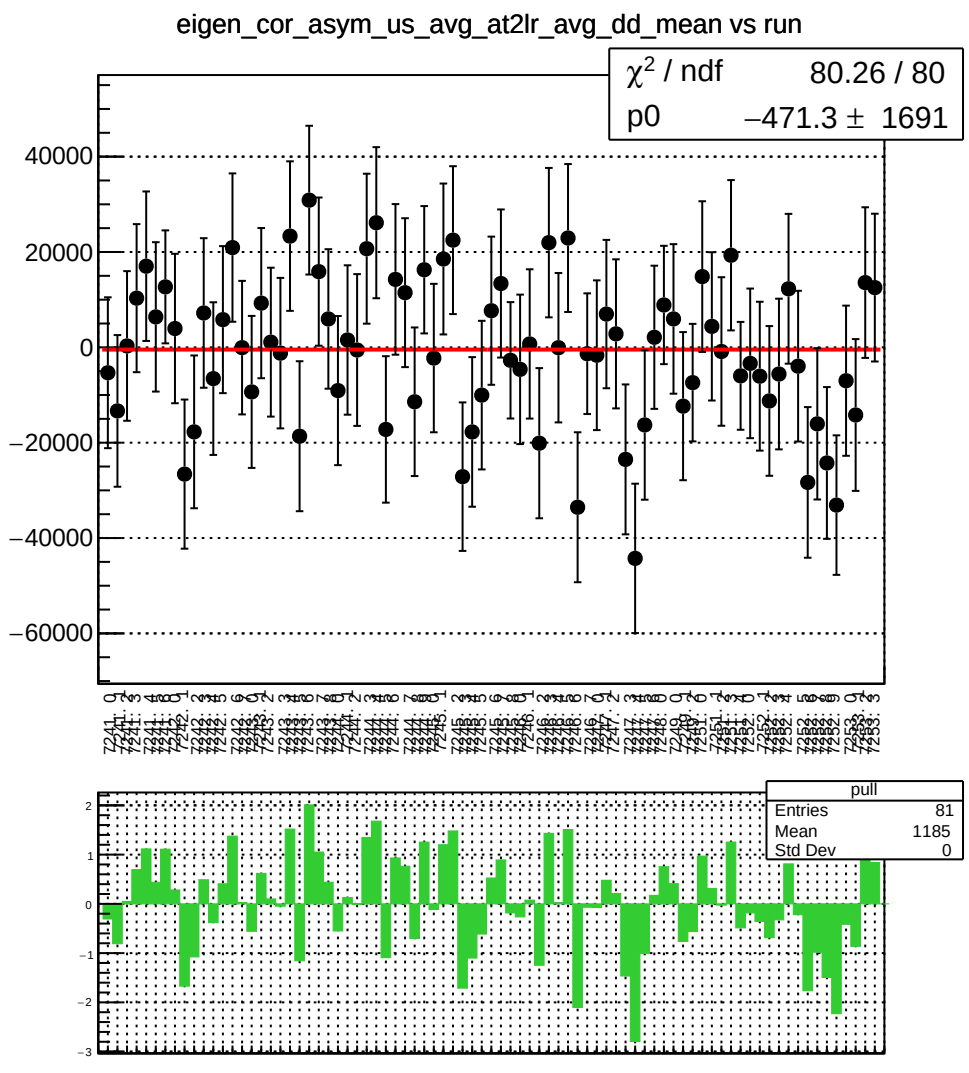

pull1D
Entries 81
Mean −0.004659
Std Dev 0.9954
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

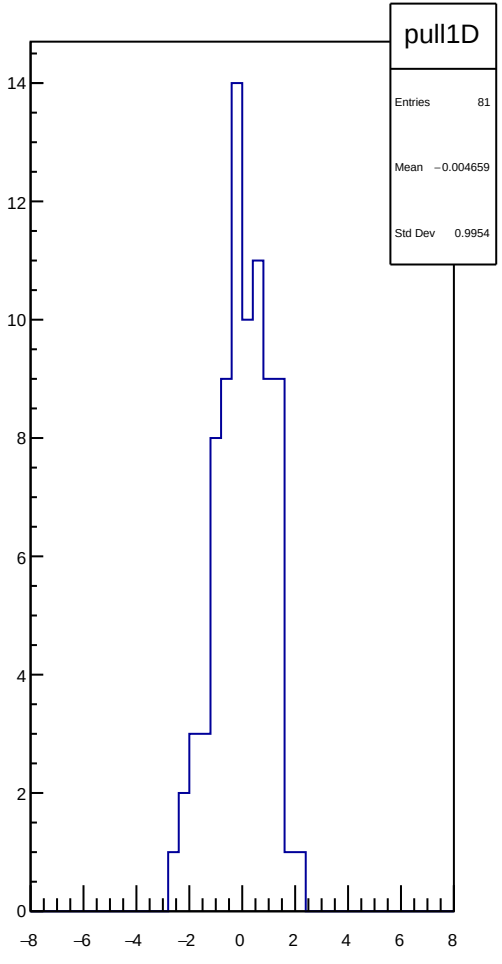

cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 94.79 / 80
p0 1488 ± 1.195
1540
1520
1500
1480
1460
1440

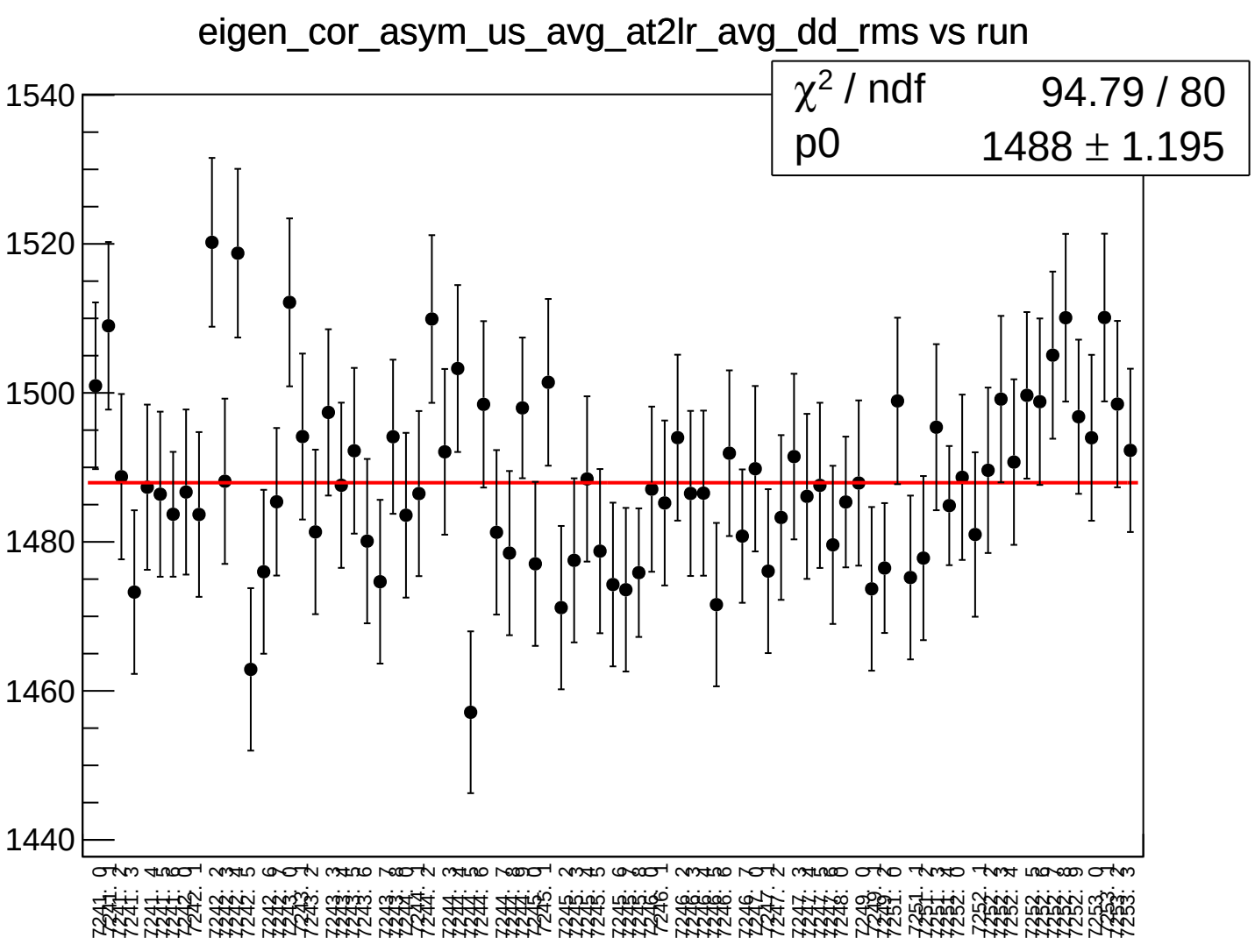

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 94.88 / 80
p0 1077 ± 7897
pull
Entries 81
Mean −101.5
Std Dev 0

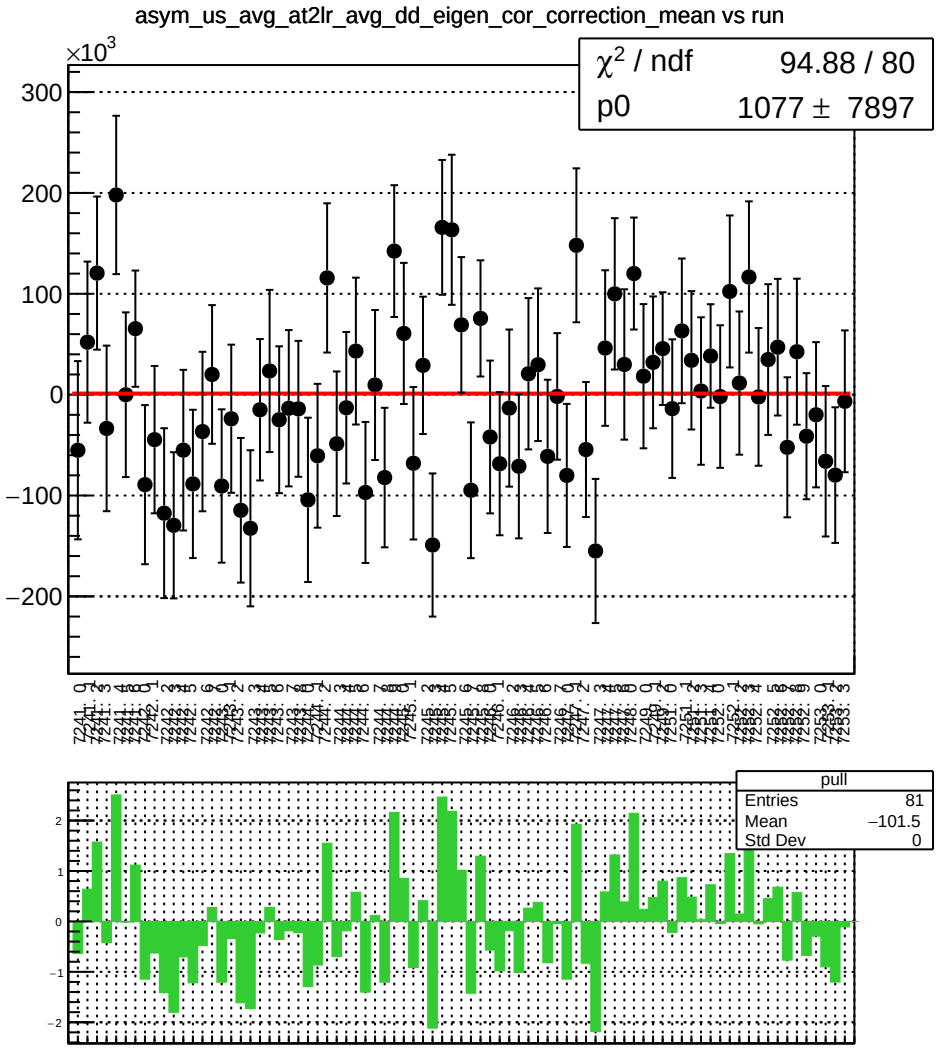

pull1D
Entries 81
Mean −0.02566
Std Dev 1.082

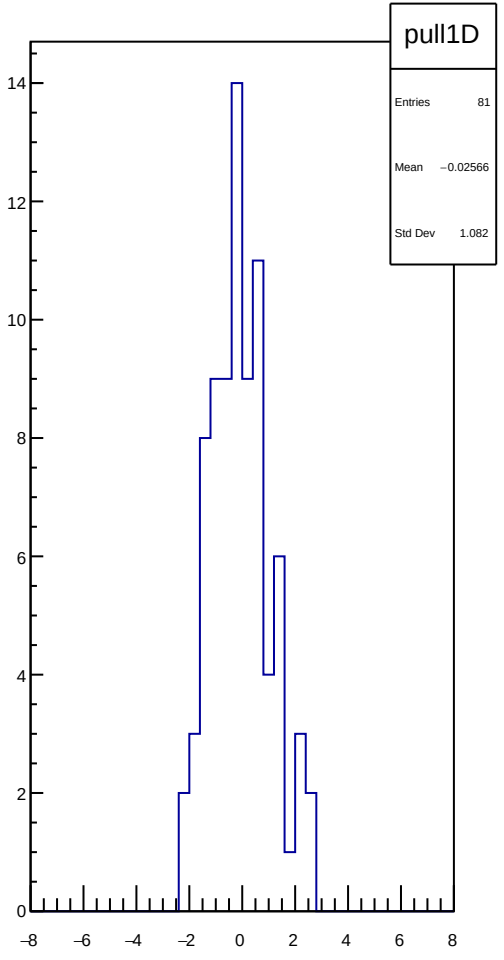

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ² / ndf 5026 / 80
p0 6939 ± 5.584
8500
8000
7500
7000
6500
6000

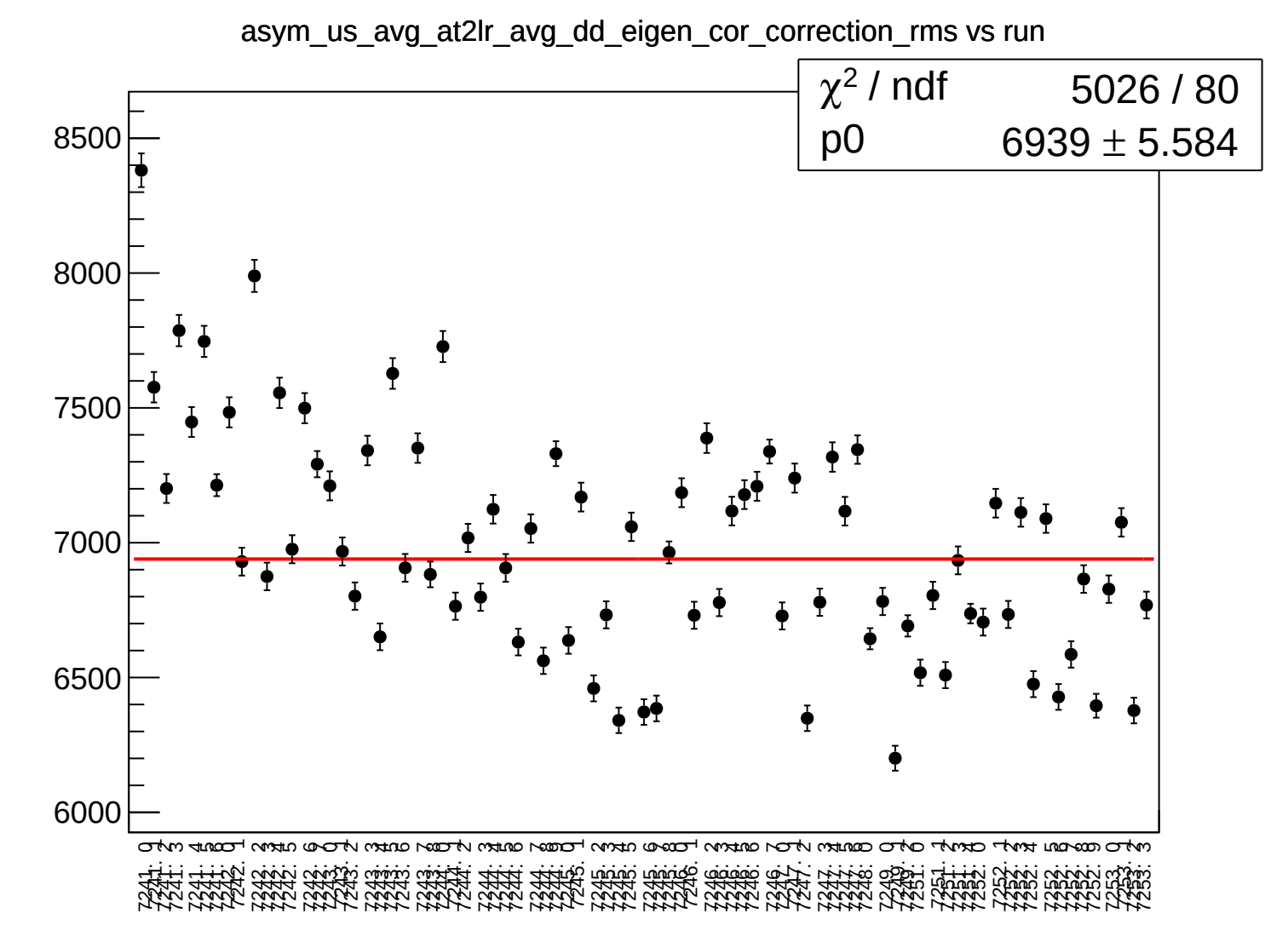

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 80.26 / 80
p0 −471.3 ± 1691
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean 1185
Std Dev 0
2
1
0
−1
−2
−3

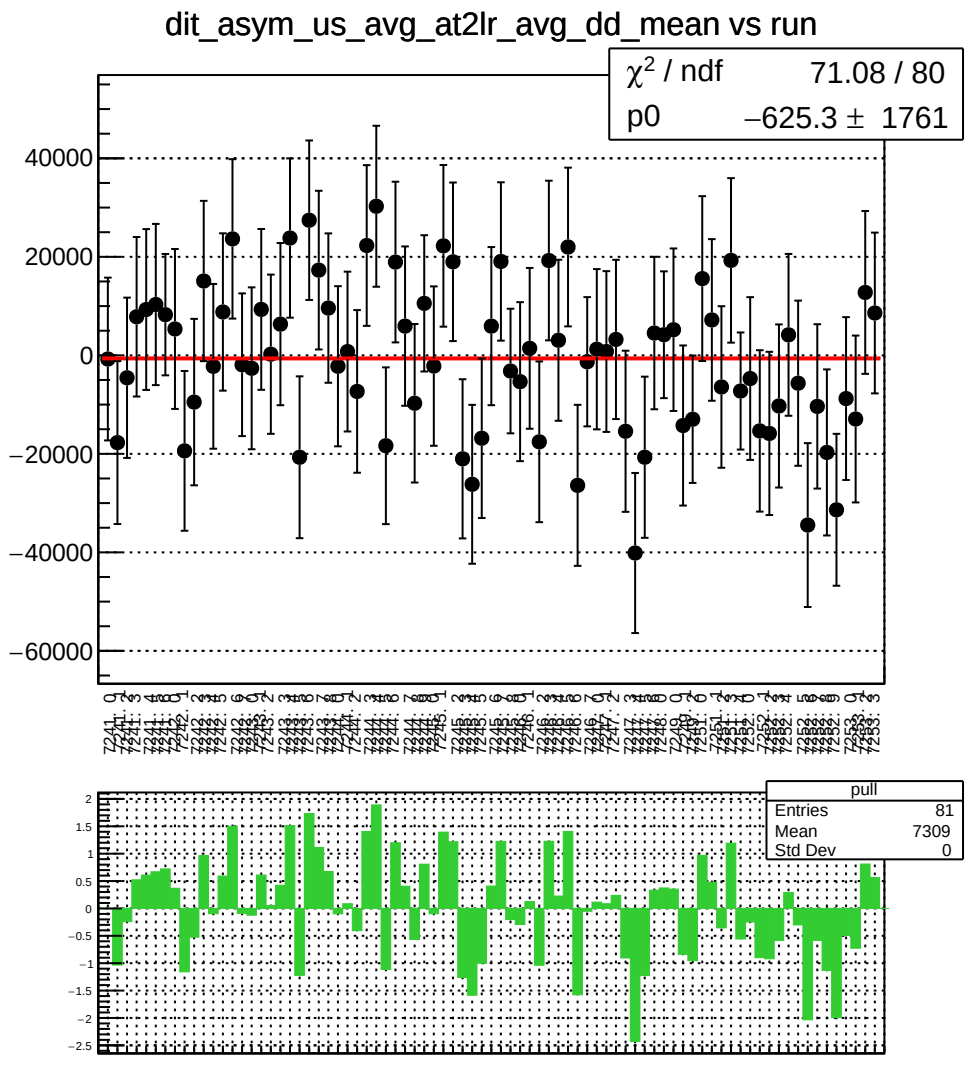

pull1D
Entries 81
Mean −0.004659
Std Dev 0.9954
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

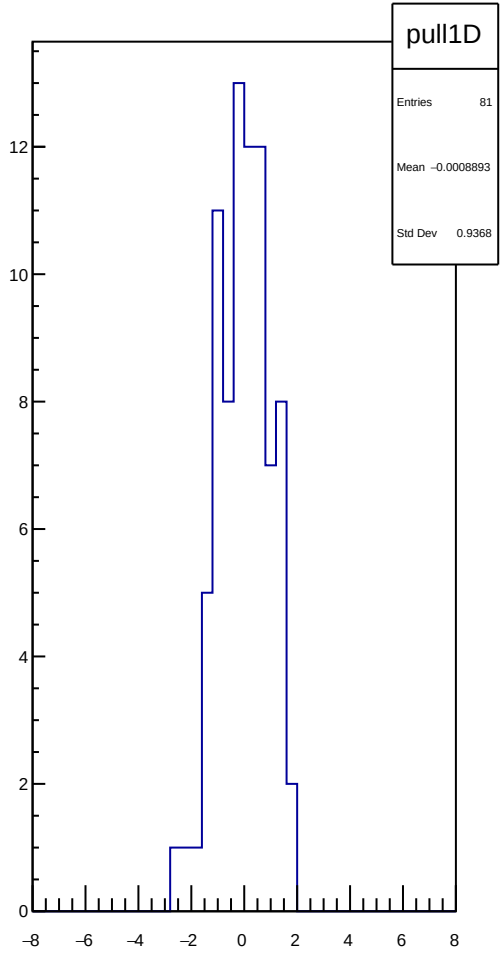

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 94.79 / 80
p0 1488 ± 1.195
1540
1520
1500
1480
1460
1440

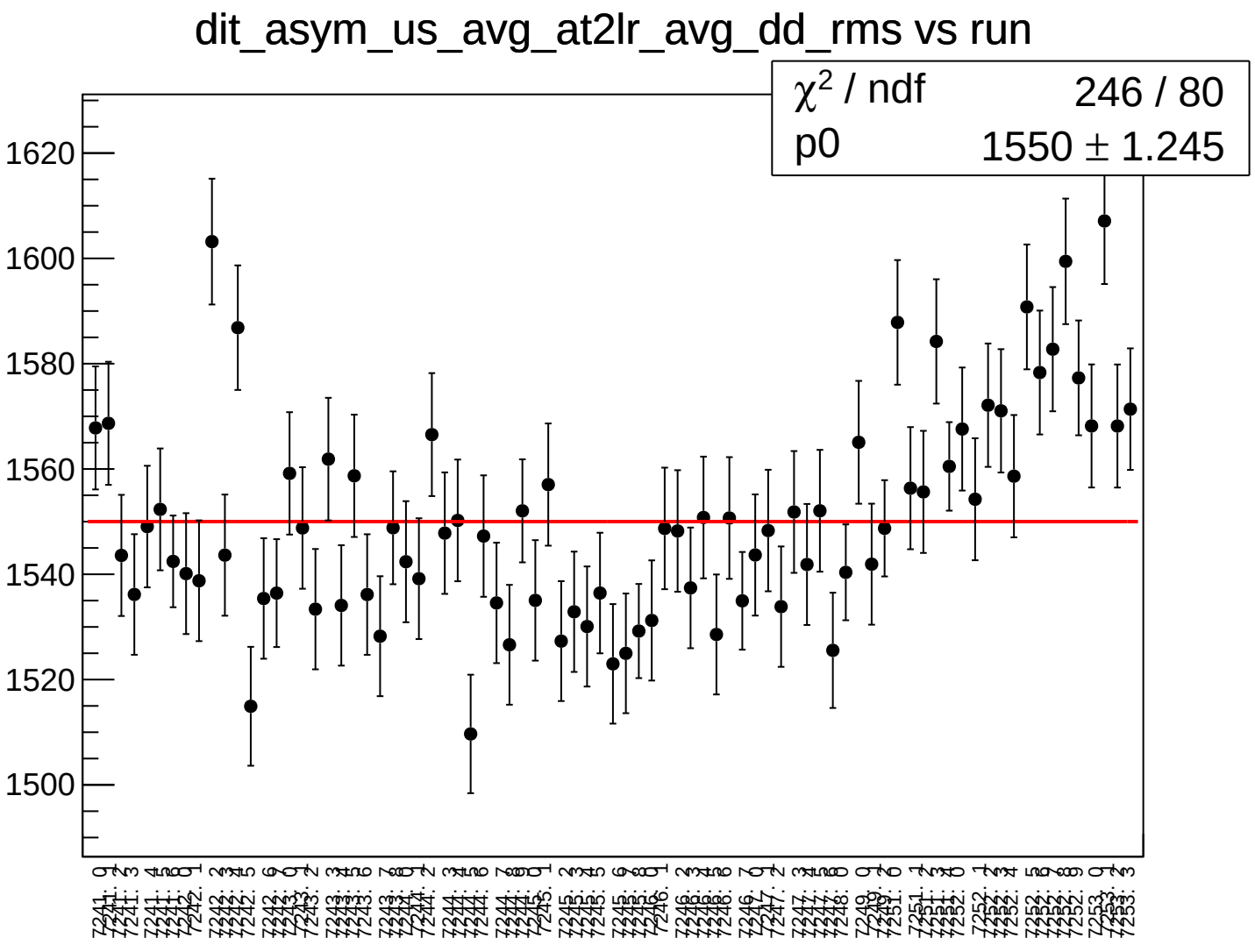

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 94.88 / 80
p0 1077 ± 7897
pull
Entries 81
Mean −101.5
Std Dev 0

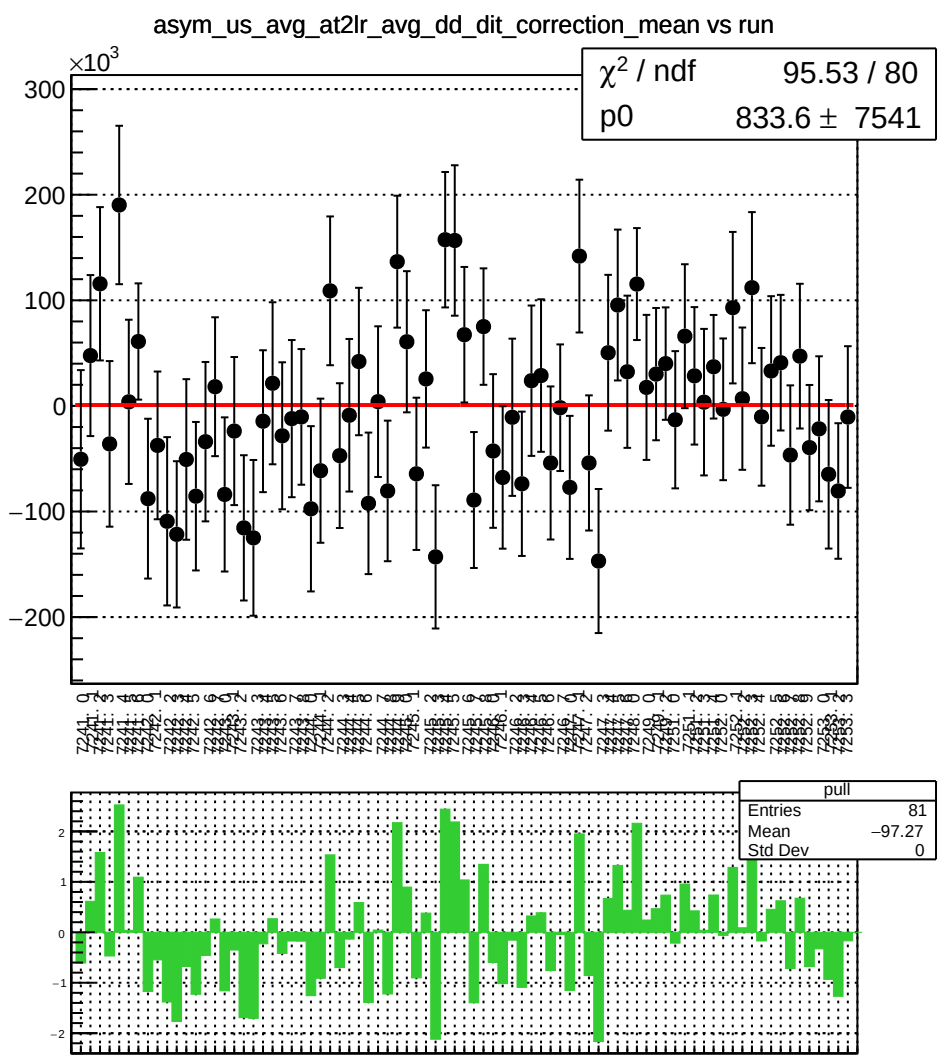

pull1D
Entries 81
Mean −0.02566
Std Dev 1.082

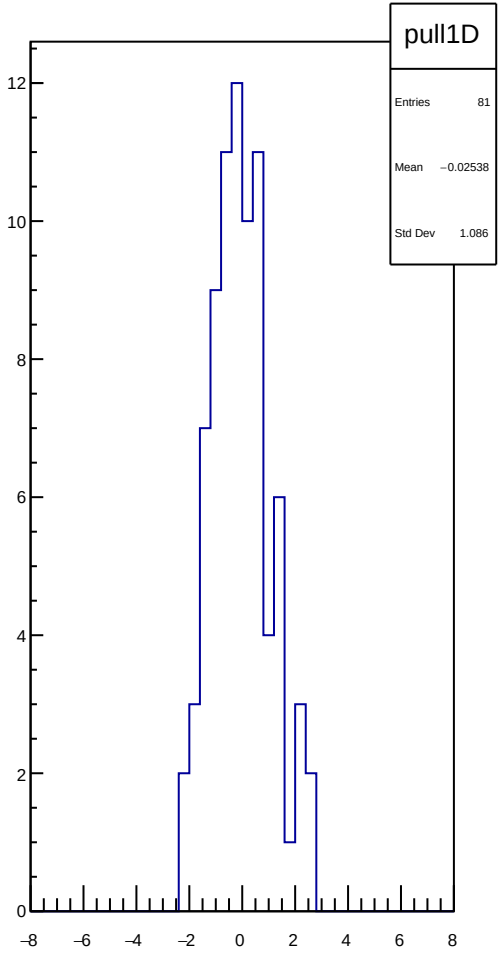

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 5026 / 80
p0 6939 ± 5.584
8500
8000
7500
7000
6500
6000

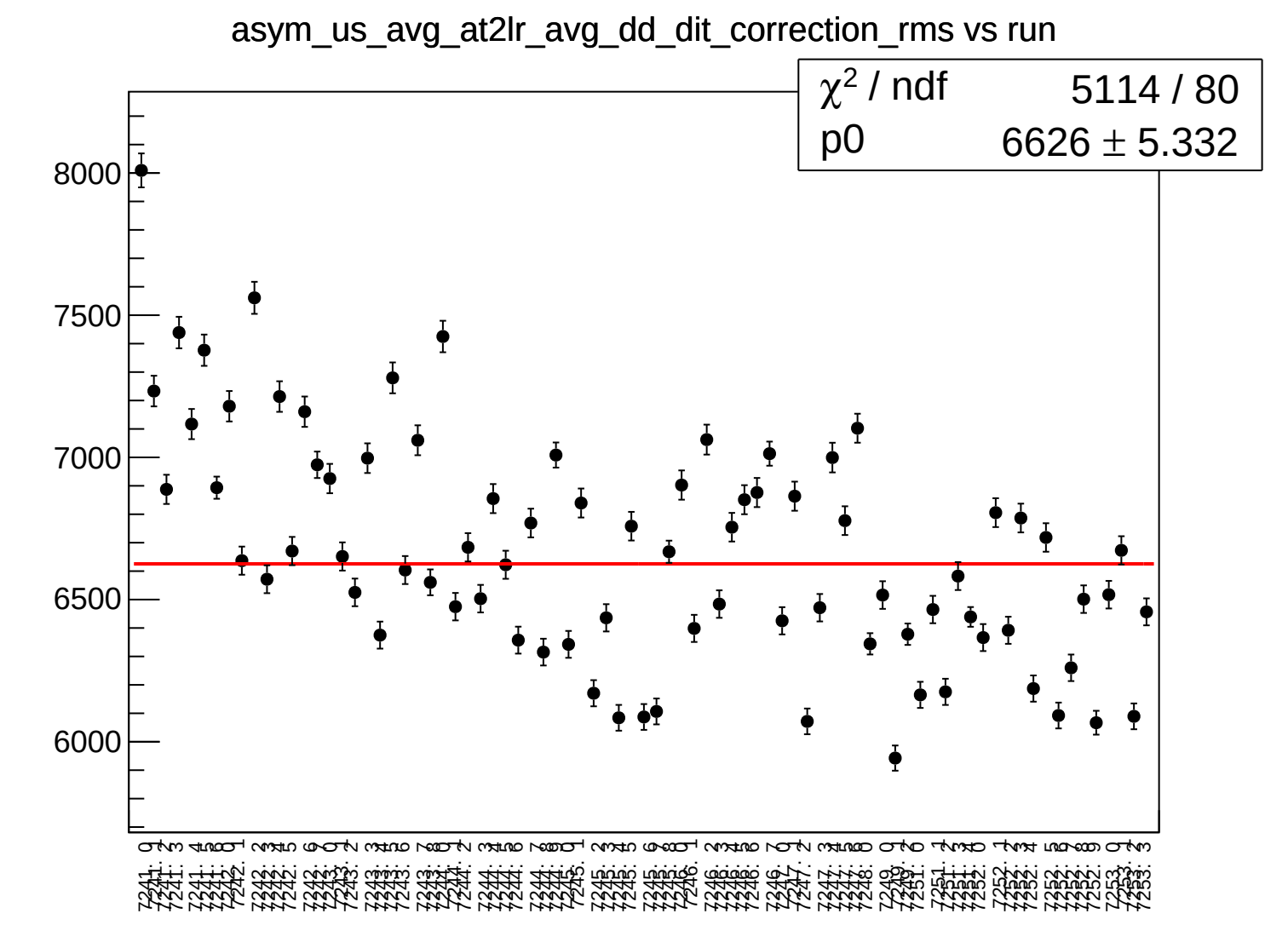

dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 71.08 / 80
p0 −625.3 ± 1761
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean 7309
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

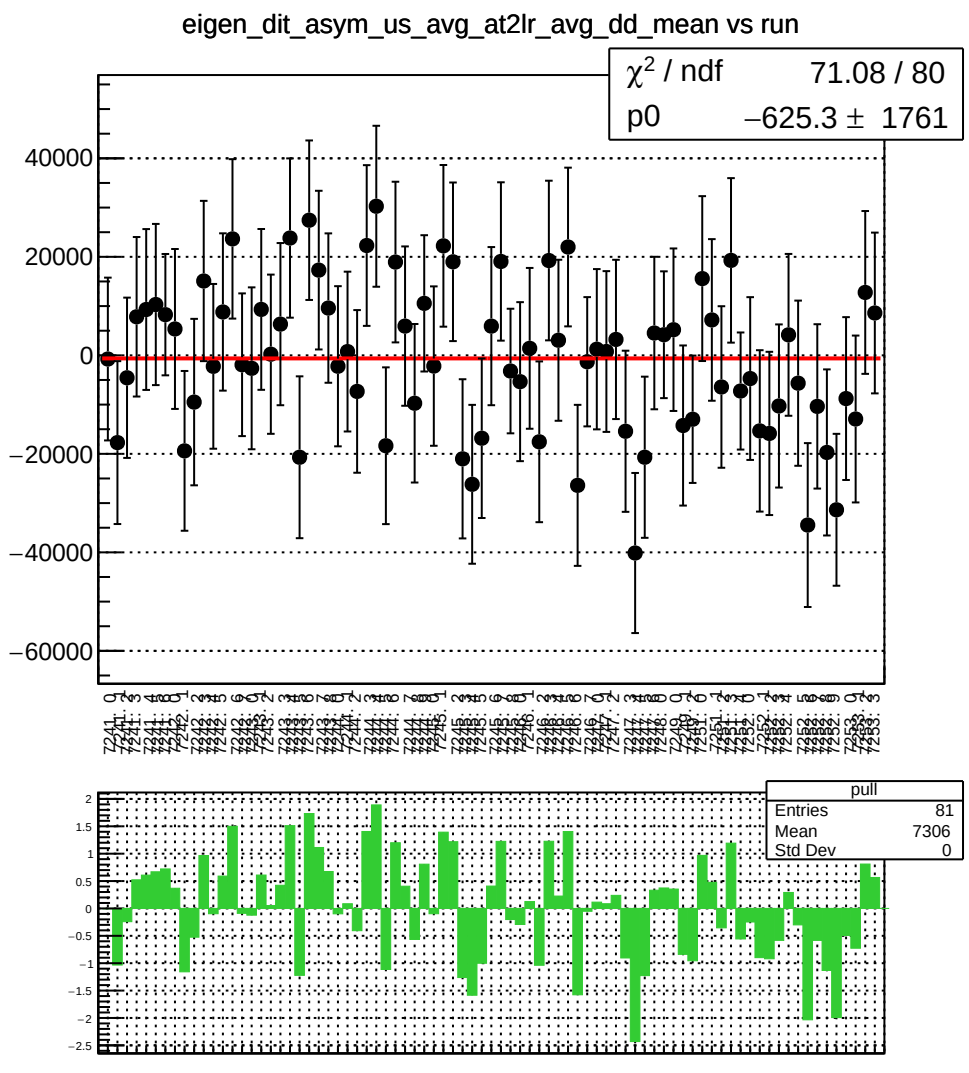

pull1D
Entries 81
Mean −0.0008893
Std Dev 0.9368
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

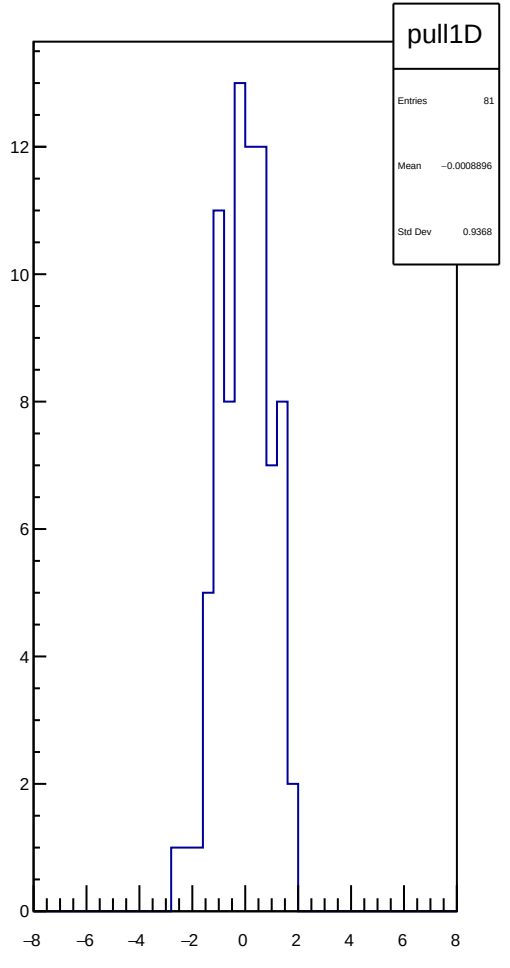

dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 246 / 80
p0 1550 ± 1.245
1620
1600
1580
1560
1540
1520
1500

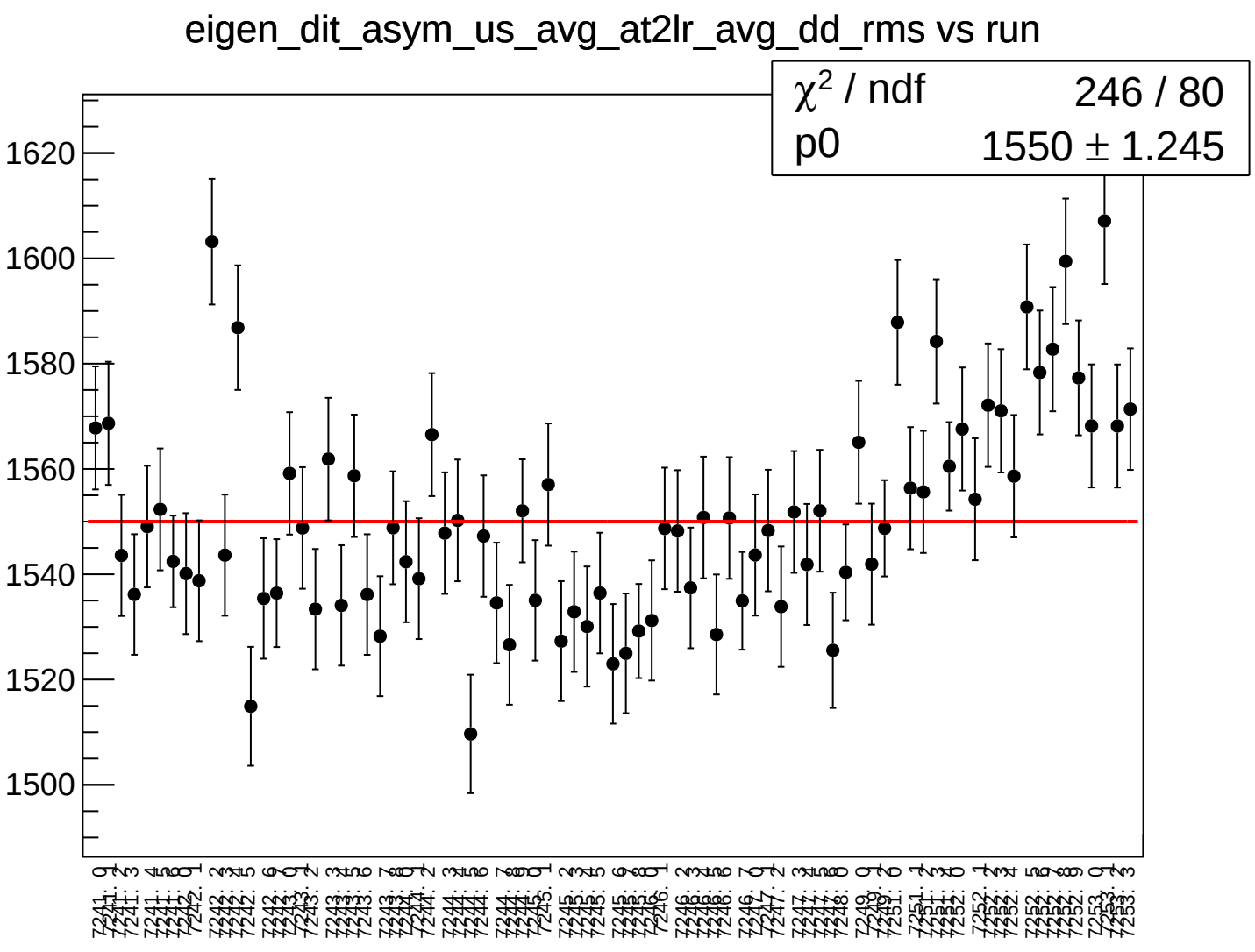

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 95.53 / 80
p0 833.6 ± 7541
300
200
100
0
−100
−200
pull
Entries 81
Mean −97.27
Std Dev 0
2
1
0
−1
−2

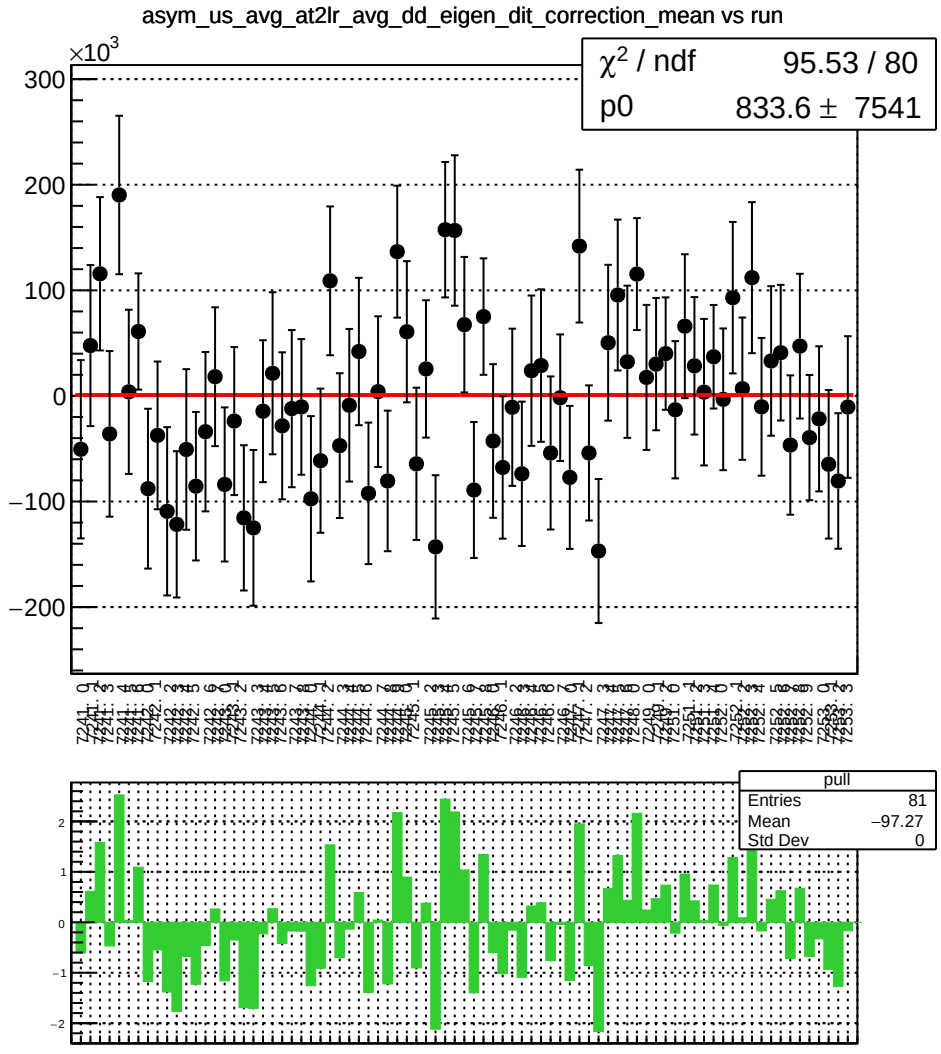

pull1D
Entries 81
Mean −0.02538
Std Dev 1.086
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

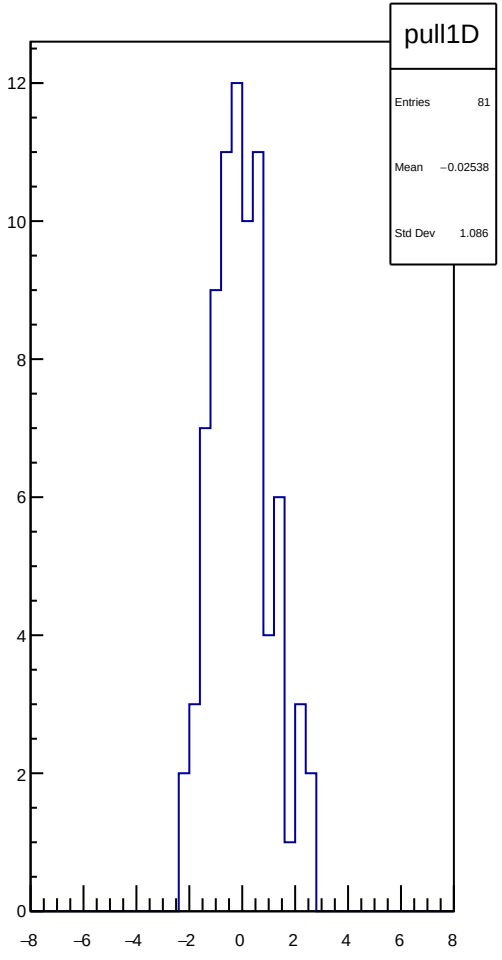

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 5114 / 80
p0 6626 ± 5.332
8000
7500
7000
6500
6000

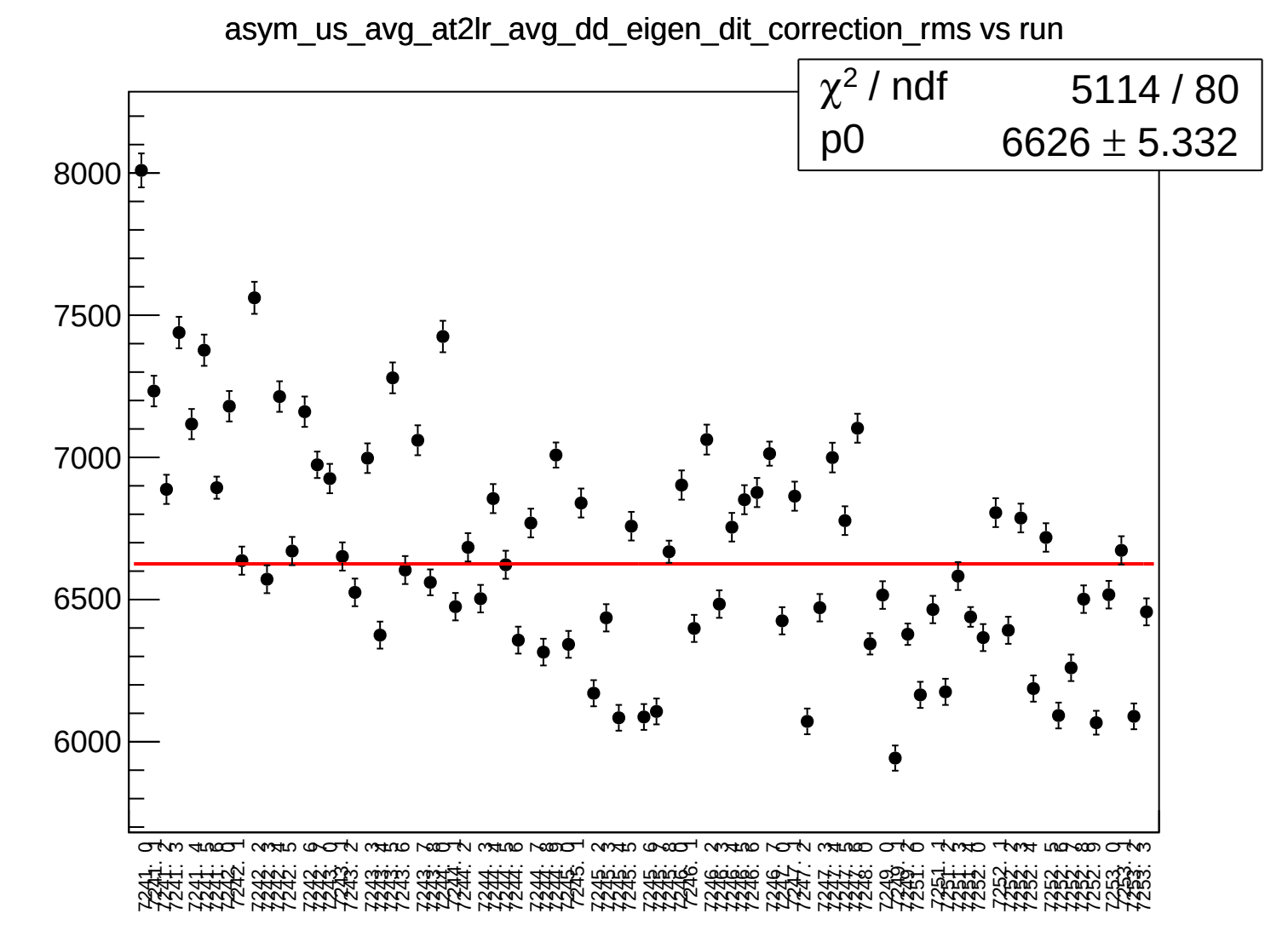

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 71.08 / 80
p0 −625.3 ± 1761
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean 7306
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

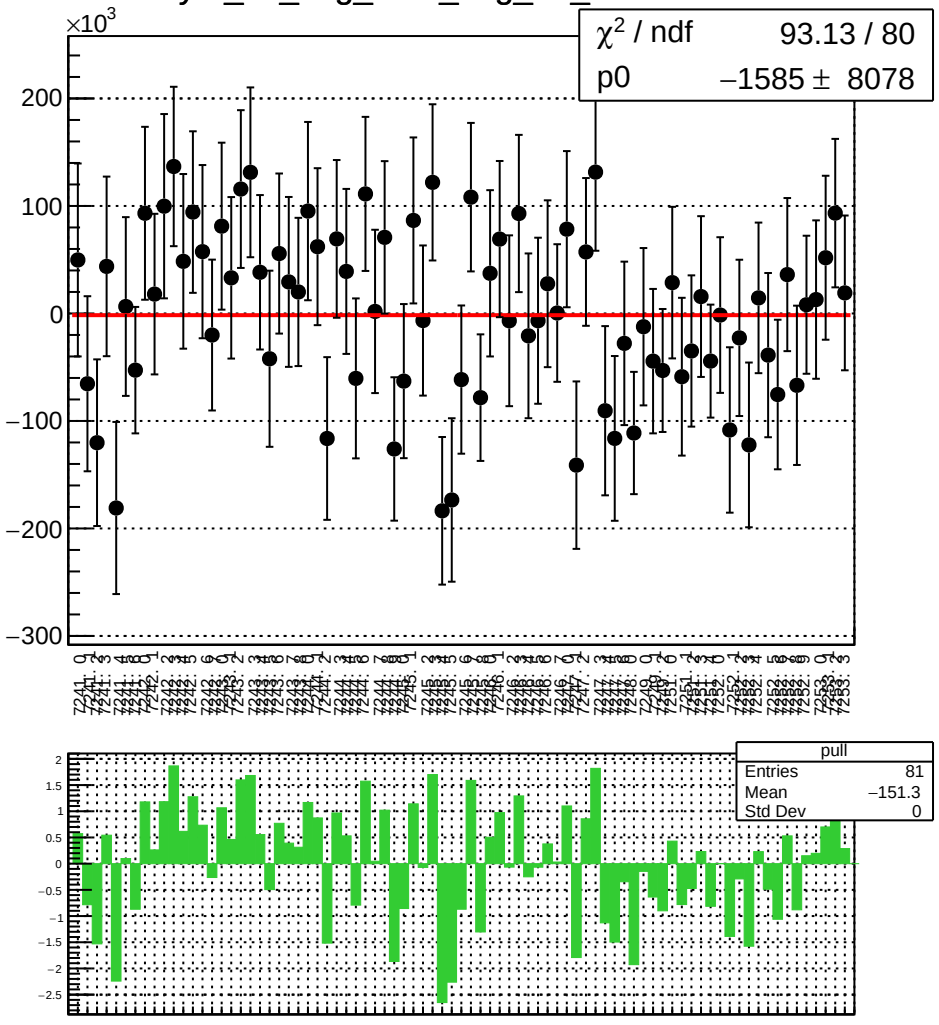

pull1D
Entries 81
Mean −0.0008896
Std Dev 0.9368
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

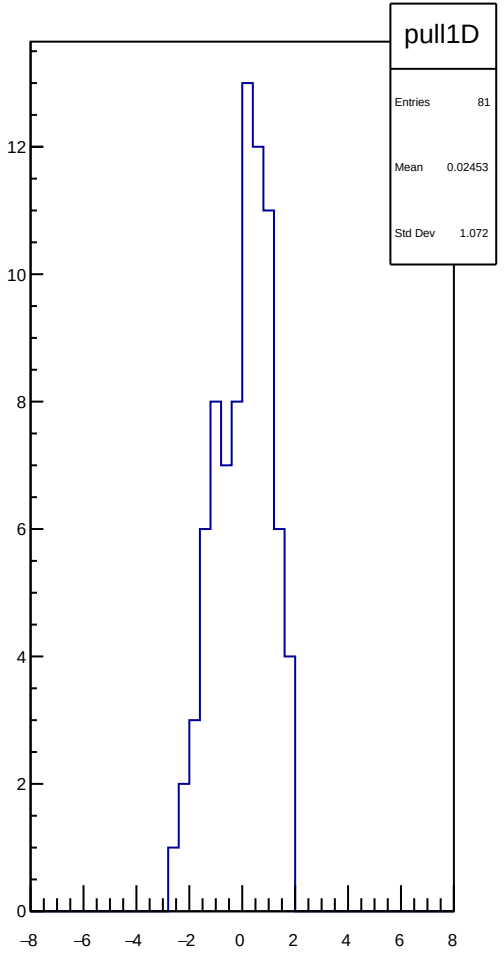

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 246 / 80
p0 1550 ± 1.245
1620
1600
1580
1560
1540
1520
1500

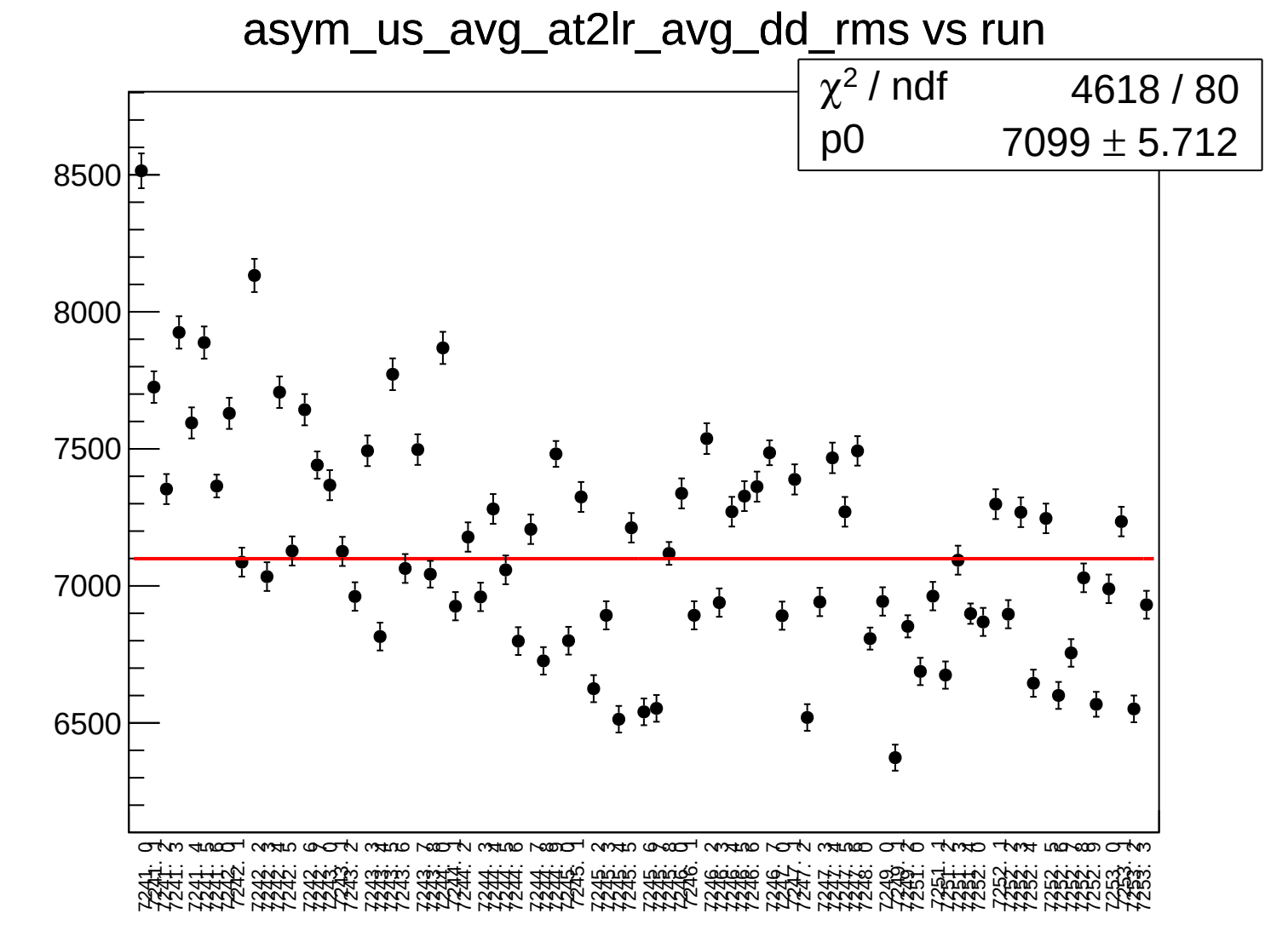

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 95.53 / 80
p0 833.6 ± 7541
pull
Entries 81
Mean −97.27
Std Dev 0

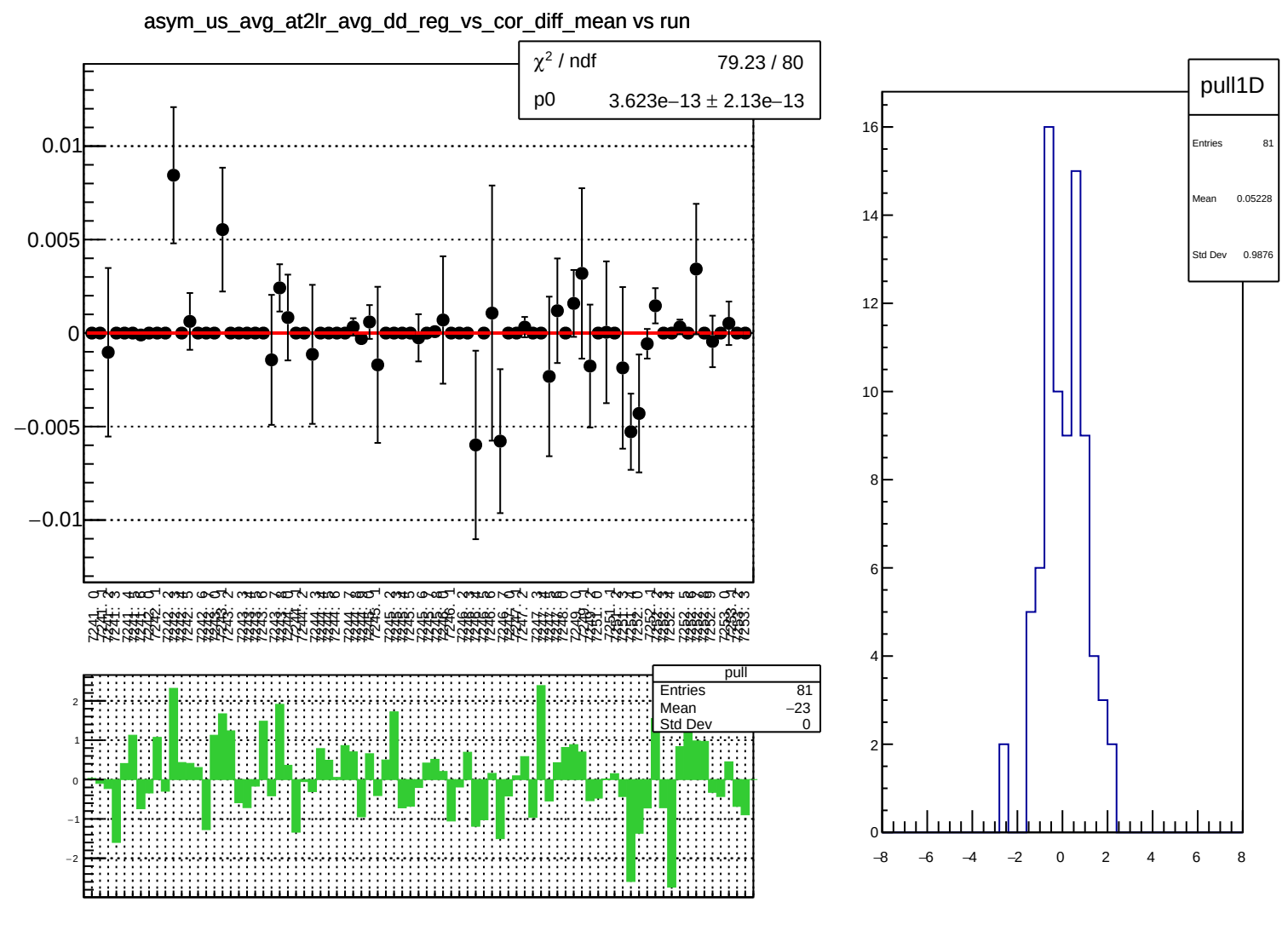

pull1D
Entries 81
Mean −0.02538
Std Dev 1.086

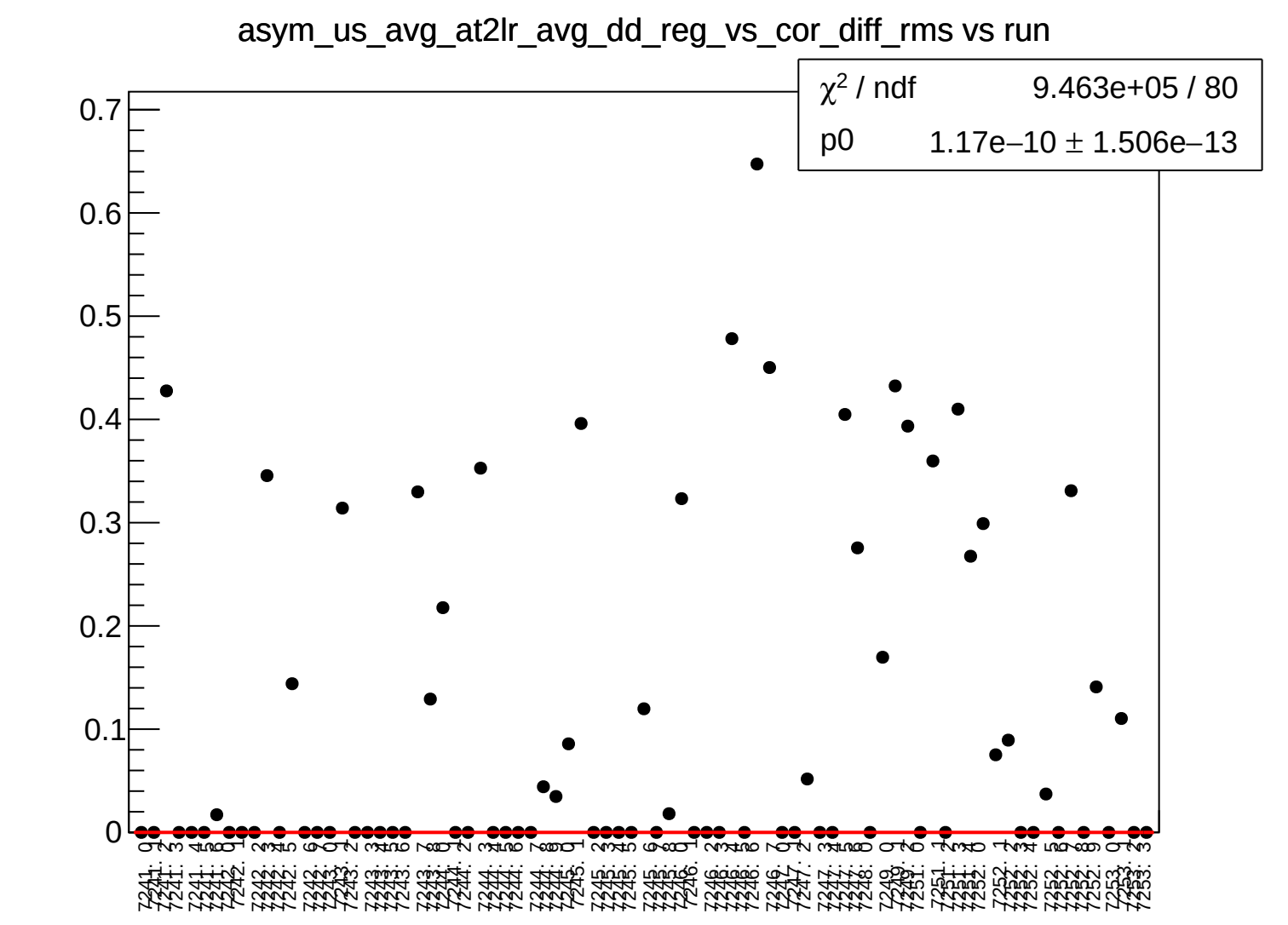

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 5114 / 80
p0 6626 ± 5.332
8000
7500
7000
6500
6000

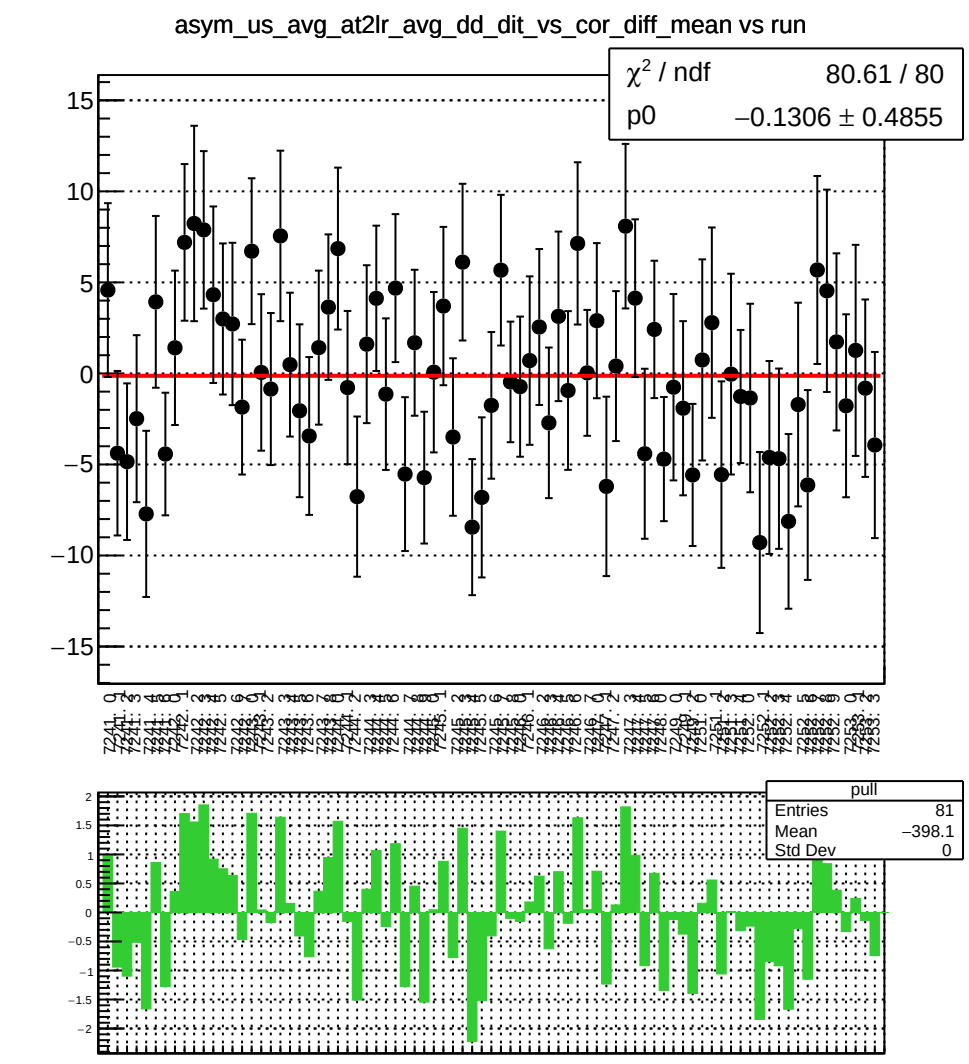

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 93.13 / 80
p0 −1585 ± 8078
200
100
0
−100
−200
−300
pull
Entries 81
Mean −151.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

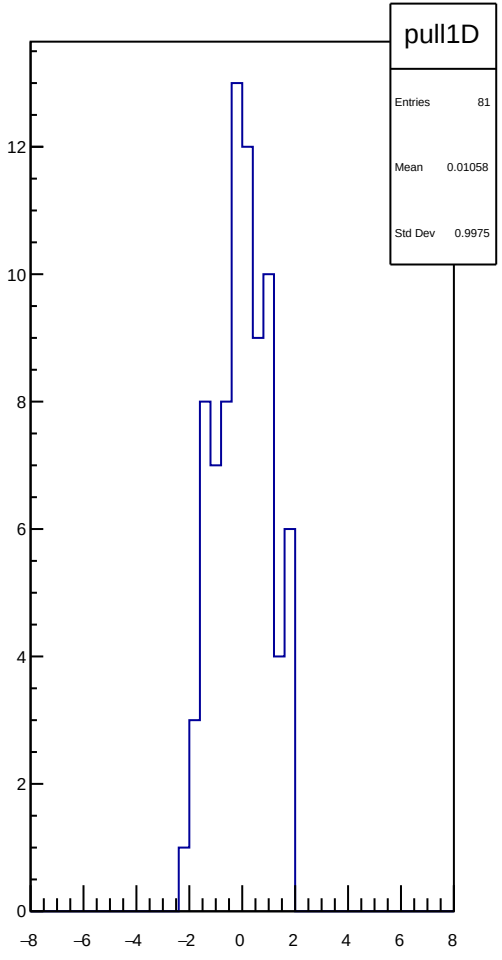

pull1D
Entries 81
Mean 0.02453
Std Dev 1.072
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

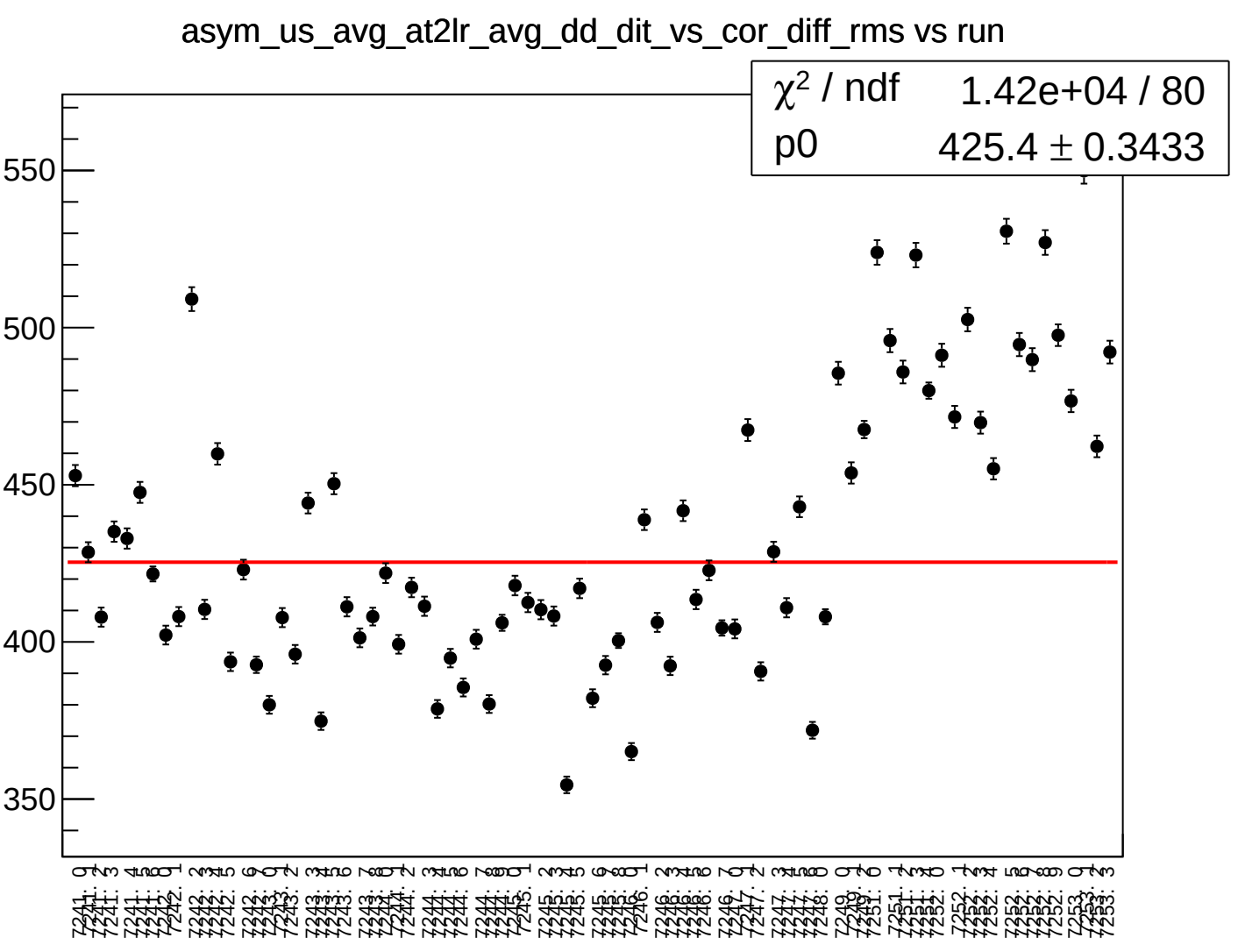

asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 4618 / 80
p0 7099 ± 5.712
8500
8000
7500
7000
6500

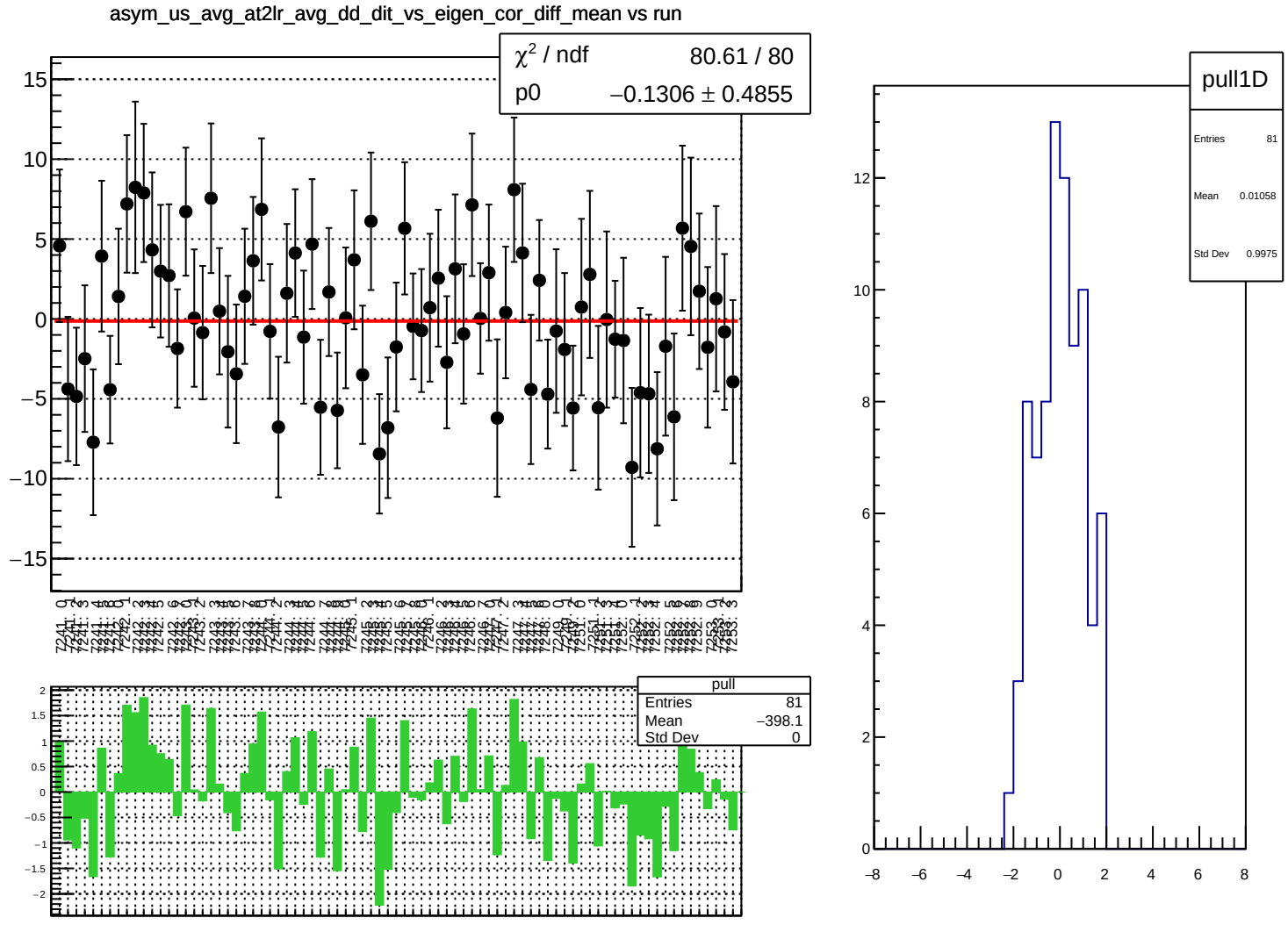

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 79.23 / 80
p0 3.623e−13 ± 2.13e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 81
Mean −23
Std Dev 0
pull1D
Entries 81
Mean 0.05228
Std Dev 0.9876

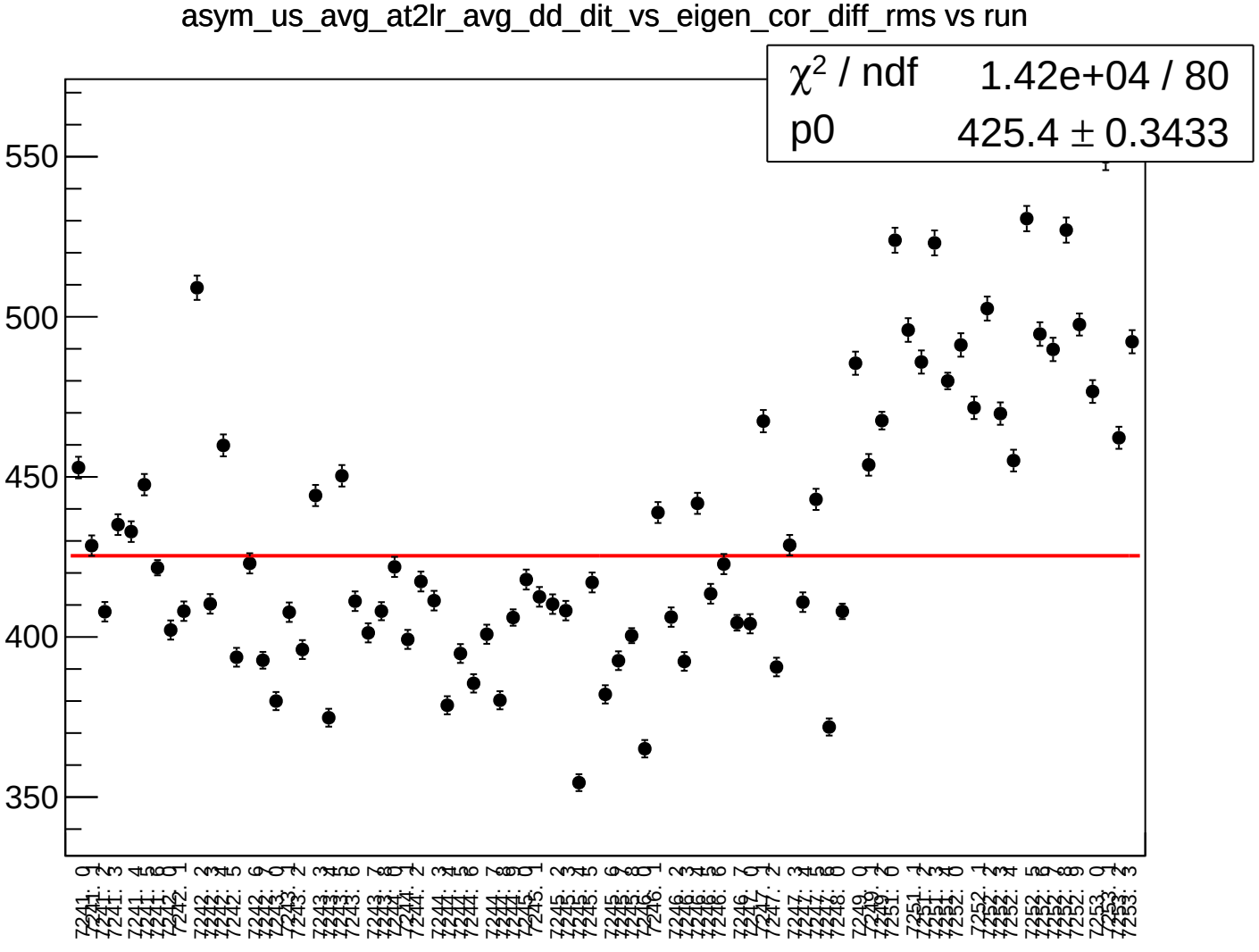

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.463e+05 / 80
p0 1.17e−10 ± 1.506e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

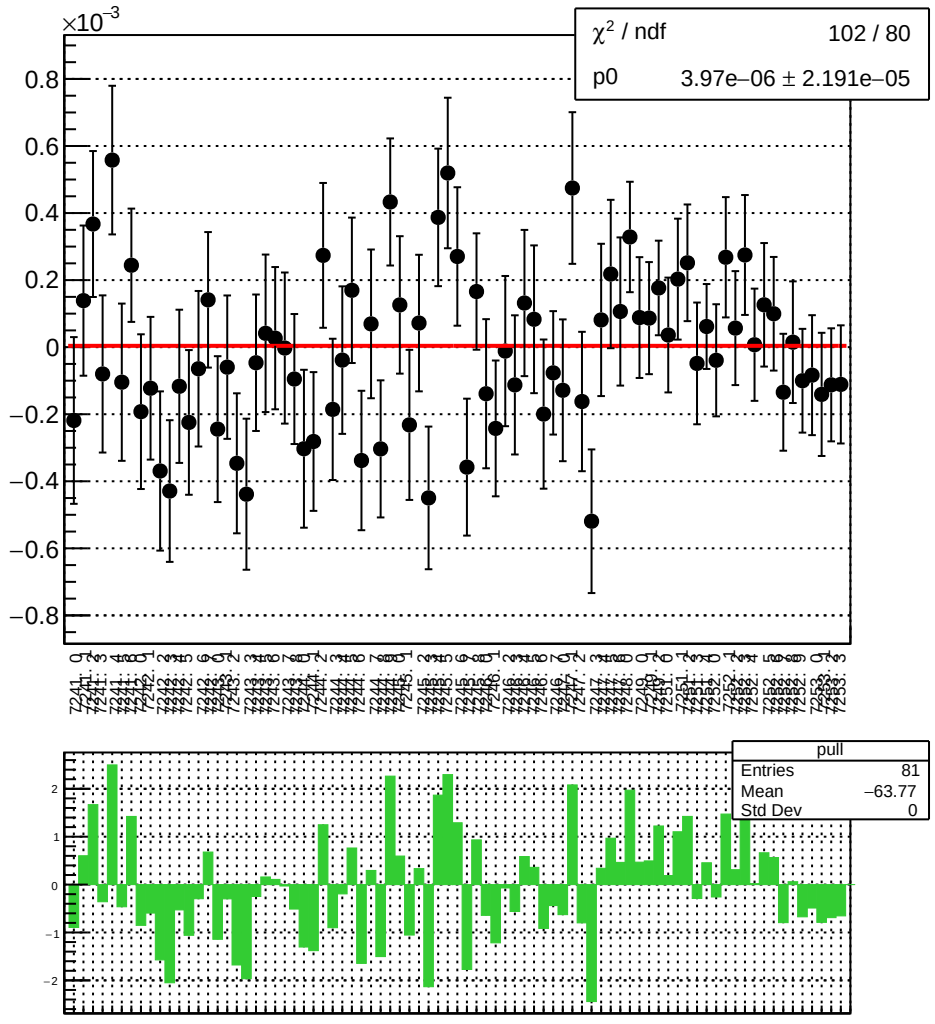

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 80.61 / 80
p0 −0.1306 ± 0.4855
pull
Entries 81
Mean −398.1
Std Dev 0

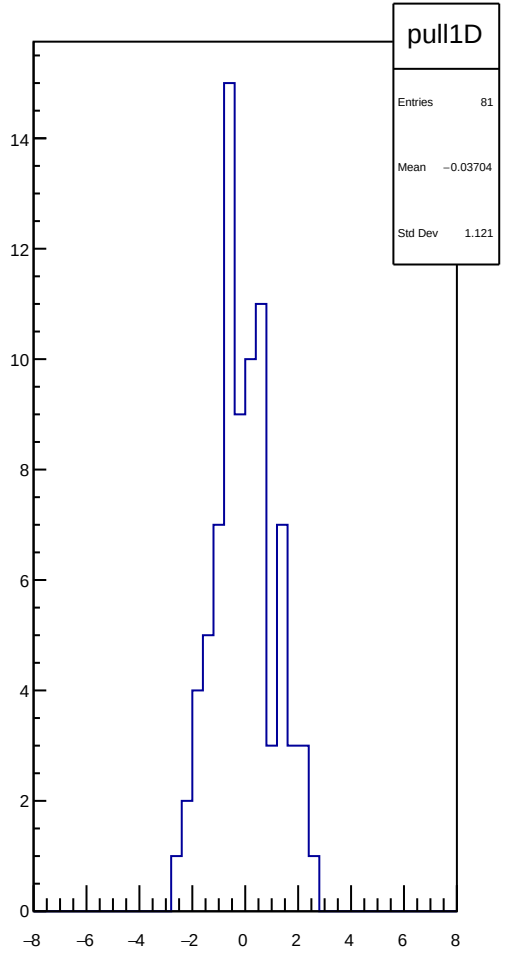

pull1D
Entries 81
Mean 0.01058
Std Dev 0.9975

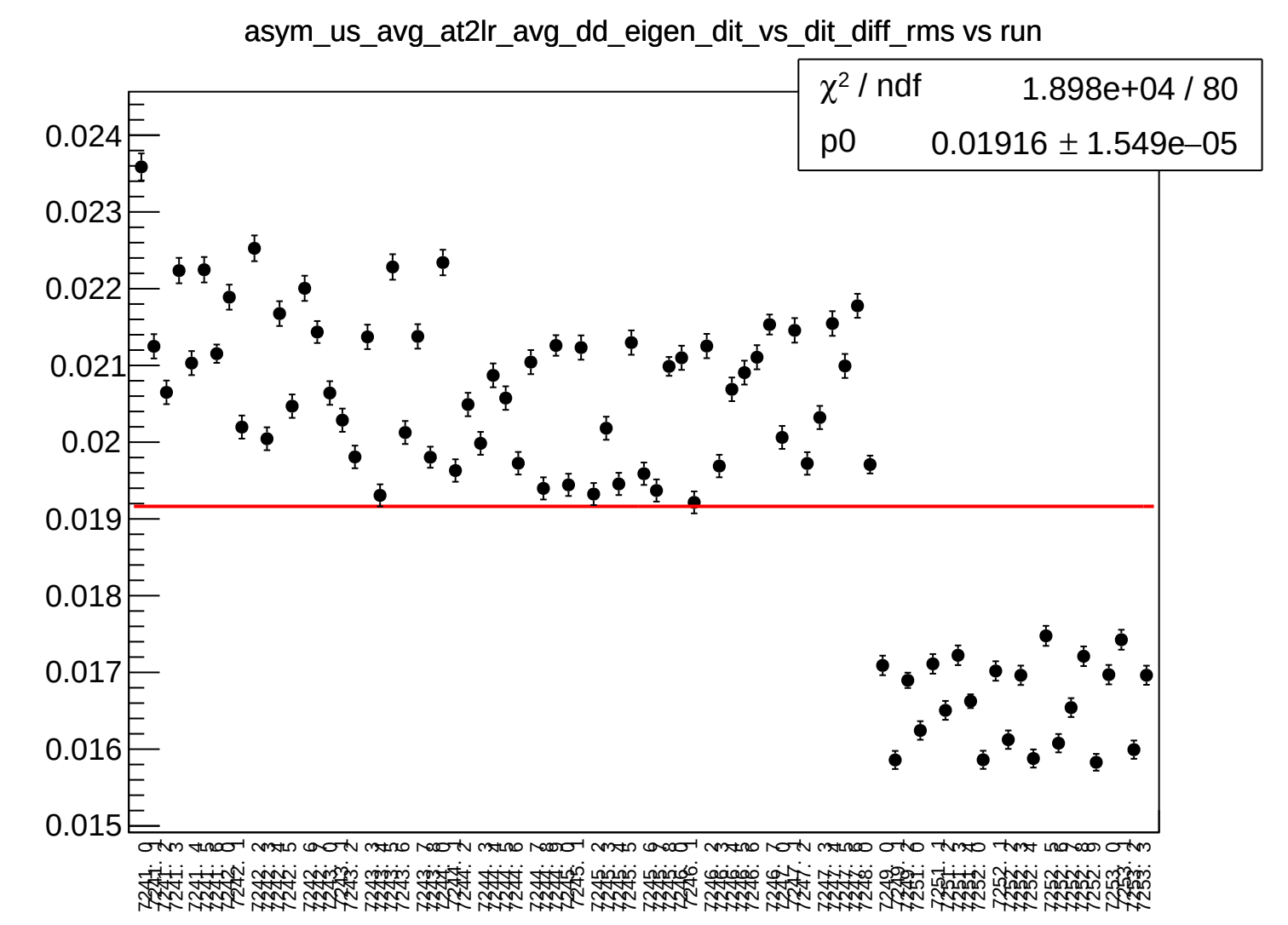

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.42e+04 / 80
p0 425.4 ± 0.3433
550
500
450
400
350

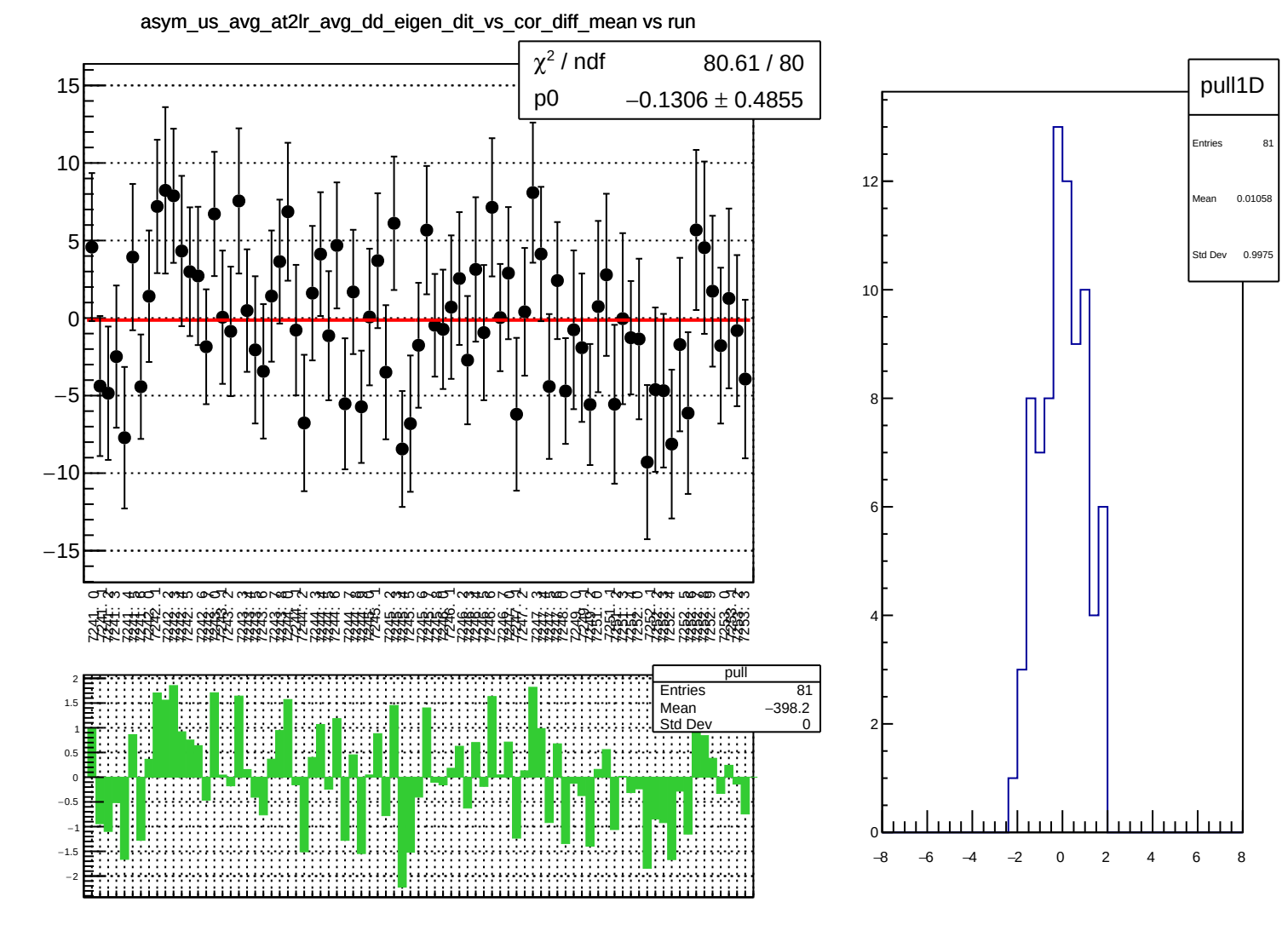

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.61 / 80
p0 −0.1306 ± 0.4855
pull
Entries 81
Mean −398.1
Std Dev 0
pull1D
Entries 81
Mean 0.01058
Std Dev 0.9975

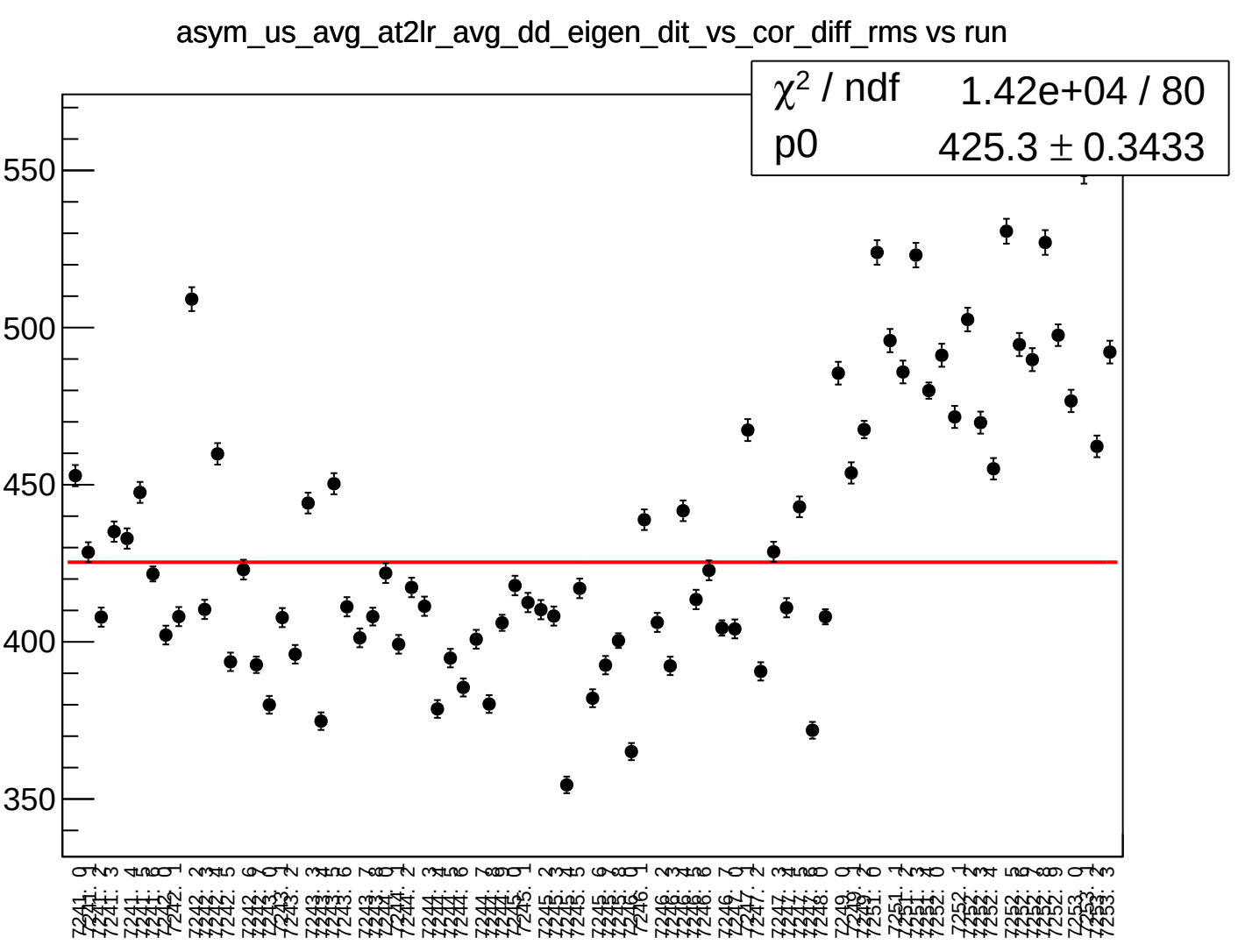

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.42e+04 / 80
p0 425.4 ± 0.3433
550
500
450
400
350

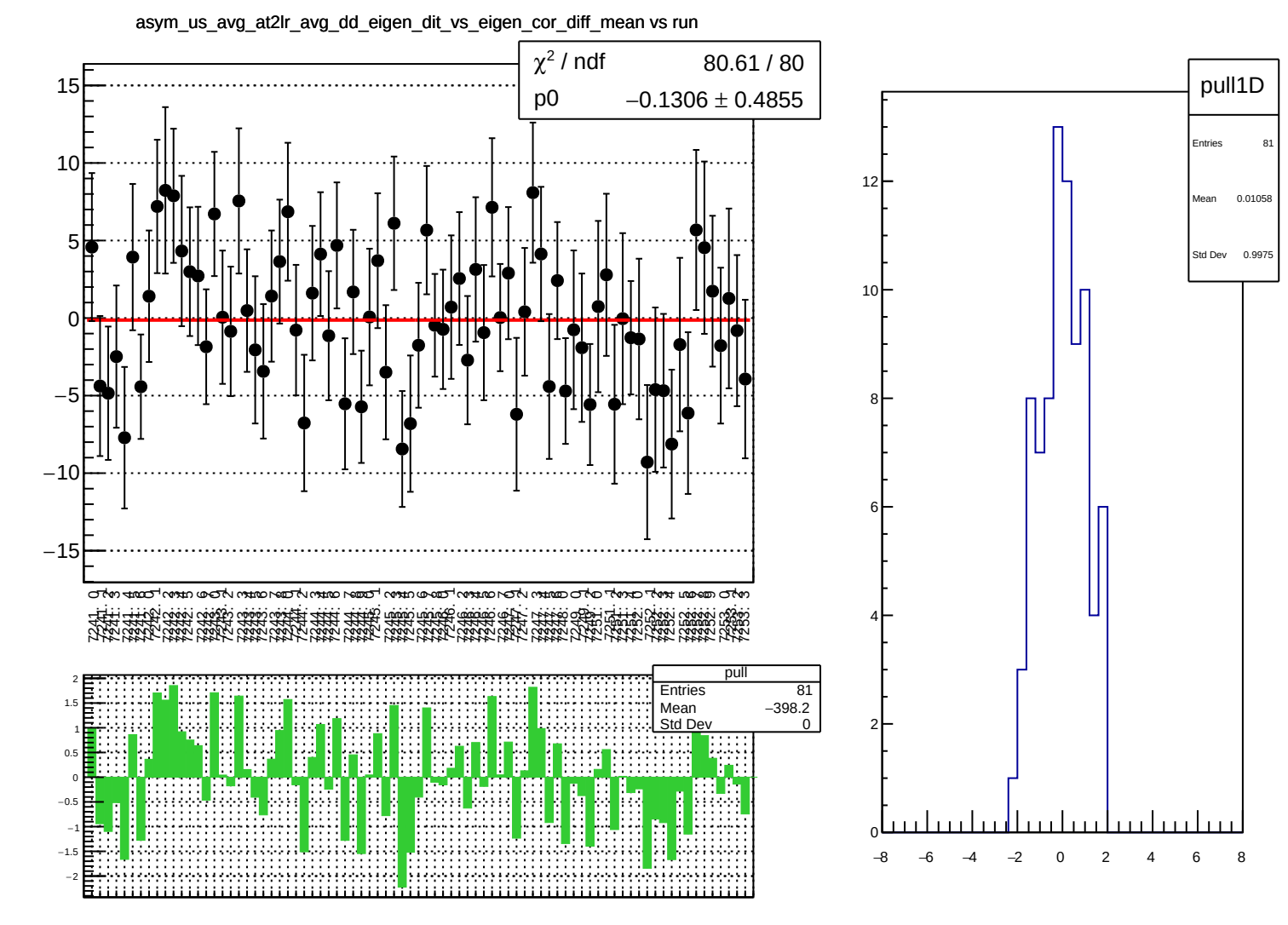

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 102 / 80
p0 3.97e−06 ± 2.191e−05
pull
Entries 81
Mean −63.77
Std Dev 0

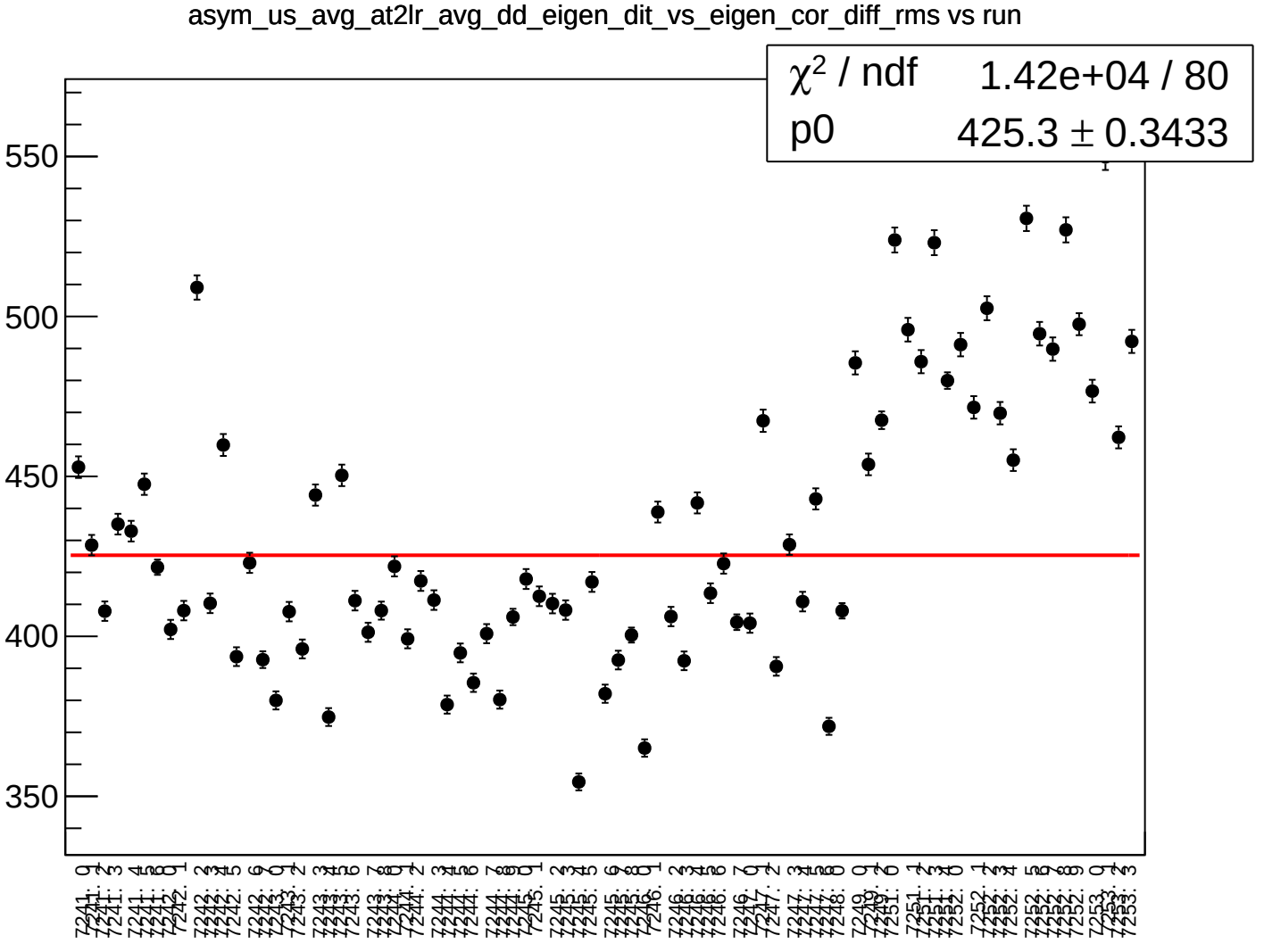

pull1D
Entries 81
Mean −0.03704
Std Dev 1.121

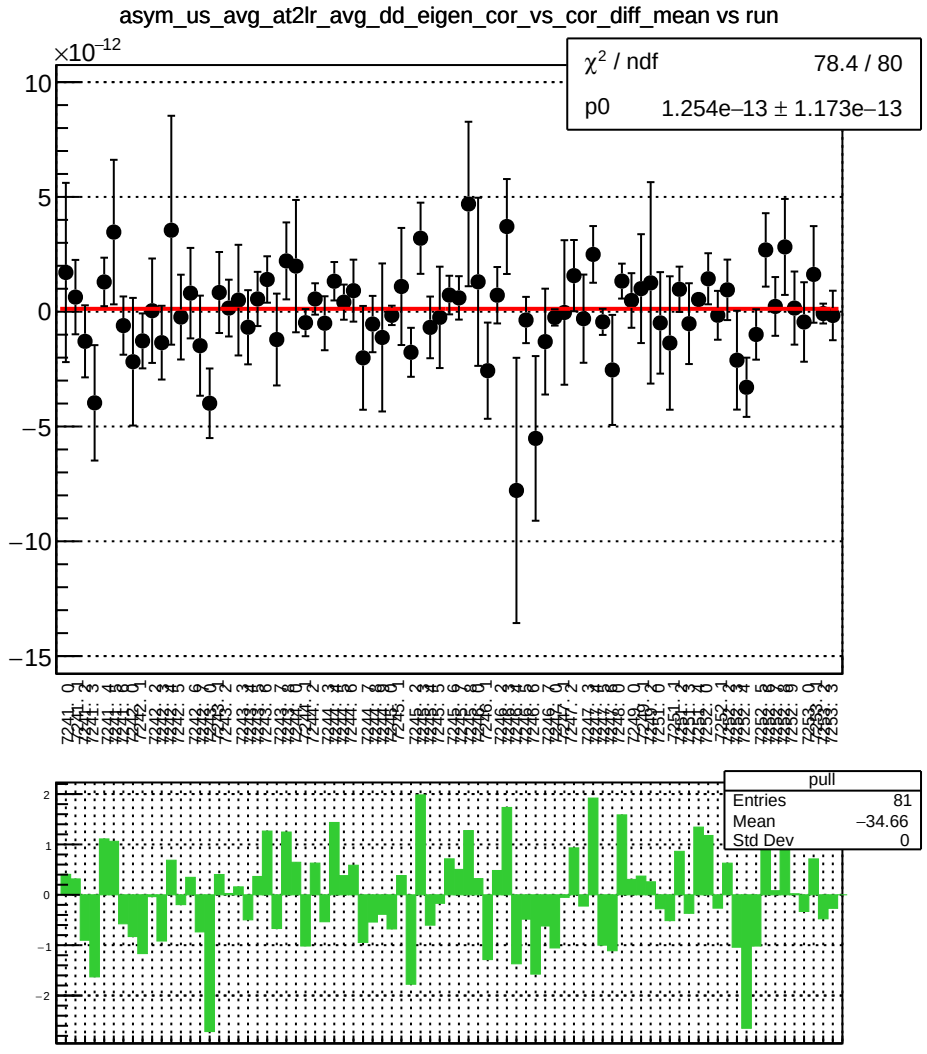

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.898e+04 / 80
p0 0.01916 ± 1.549e−05
0.024
0.023
0.022
0.021
0.02
0.019
0.018
0.017
0.016
0.015

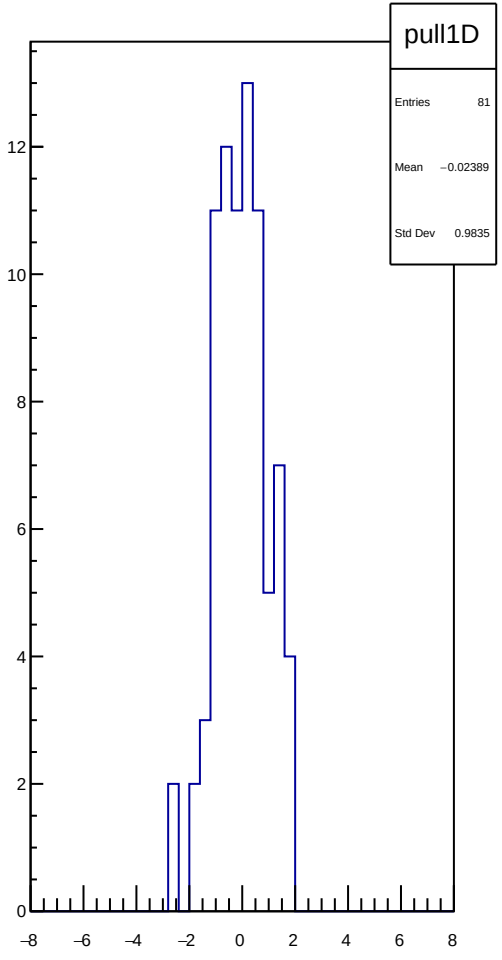

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.61 / 80
p0 −0.1306 ± 0.4855
pull
Entries 81
Mean −398.2
Std Dev 0
pull1D
Entries 81
Mean 0.01058
Std Dev 0.9975

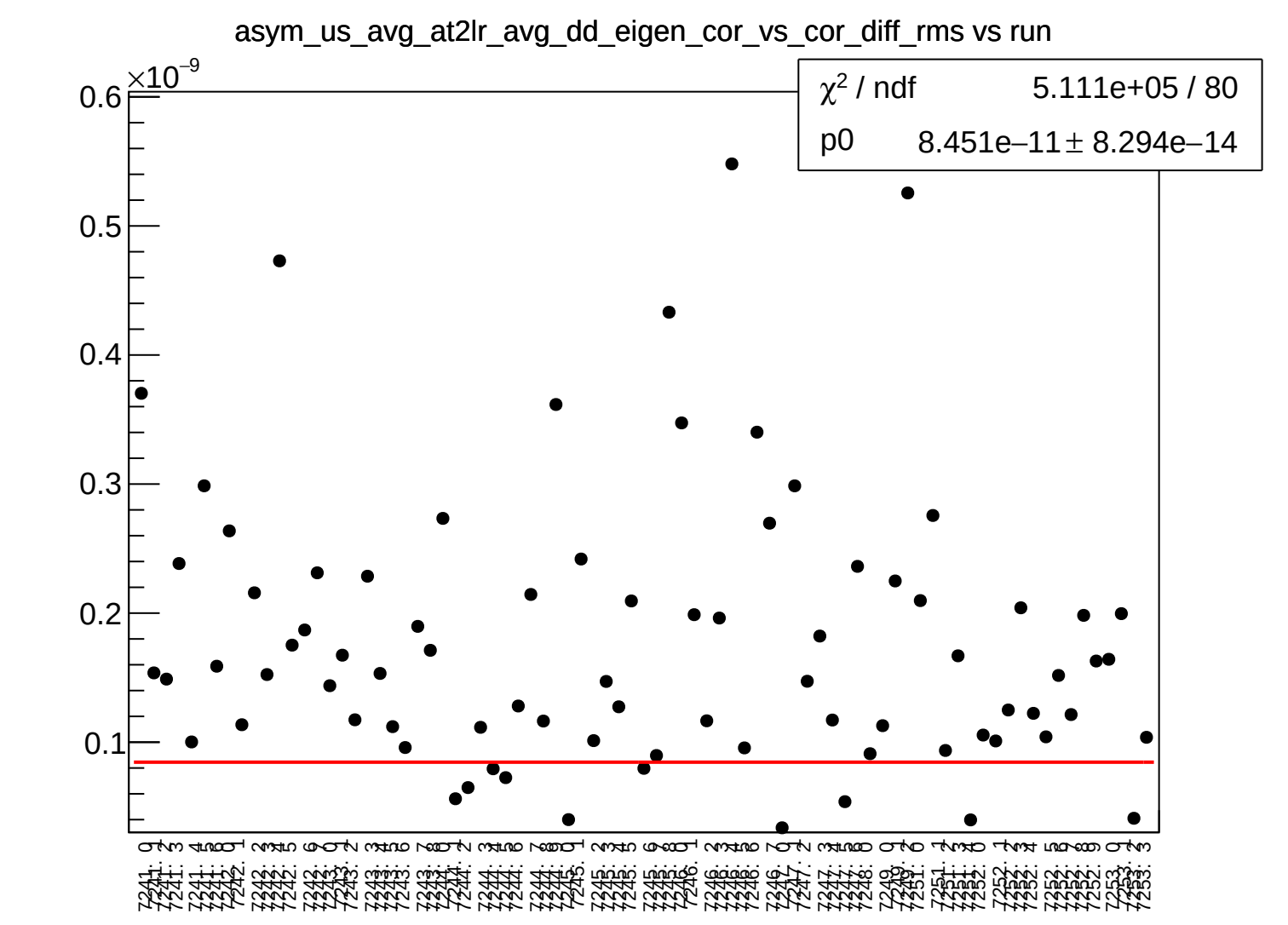

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.42e+04 / 80
p0 425.3 ± 0.3433
550
500
450
400
350

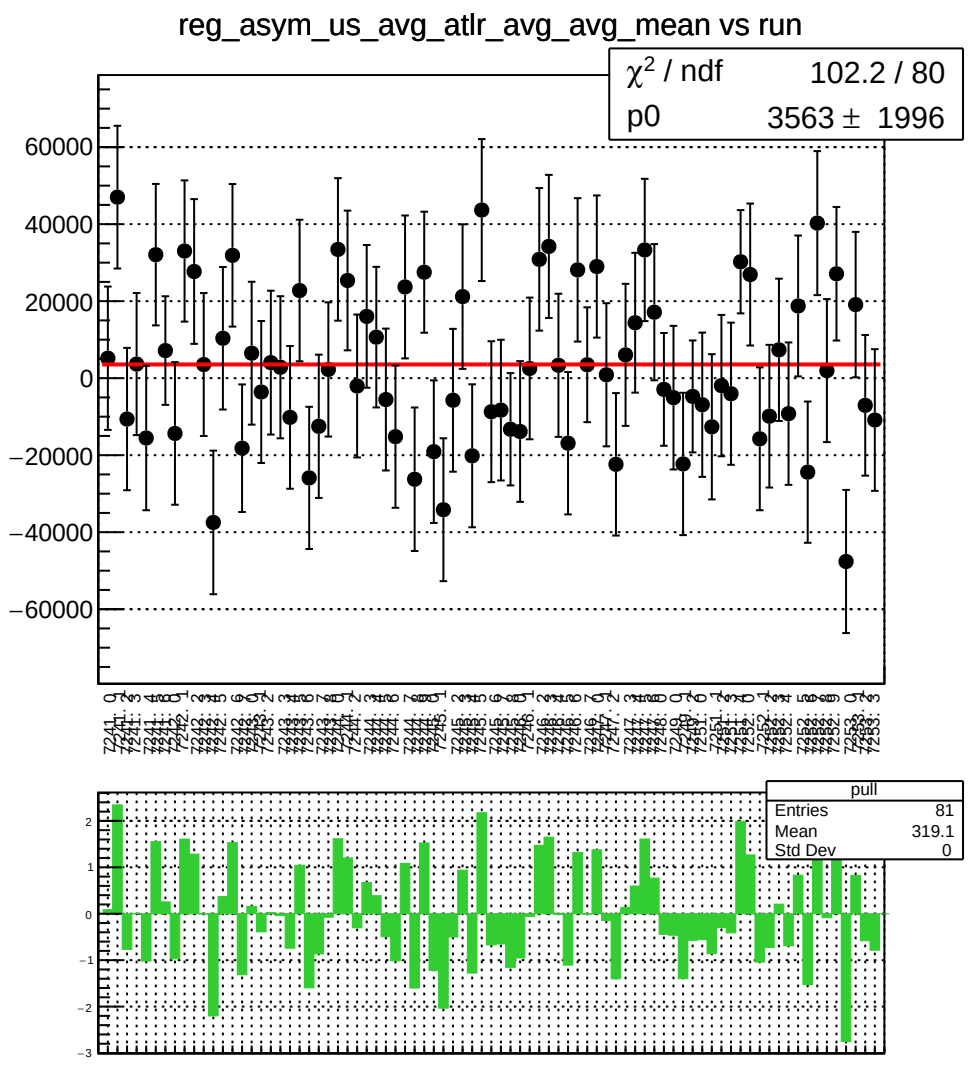

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.61 / 80
p0 −0.1306 ± 0.4855
pull
Entries 81
Mean −398.2
Std Dev 0
pull1D
Entries 81
Mean 0.01058
Std Dev 0.9975

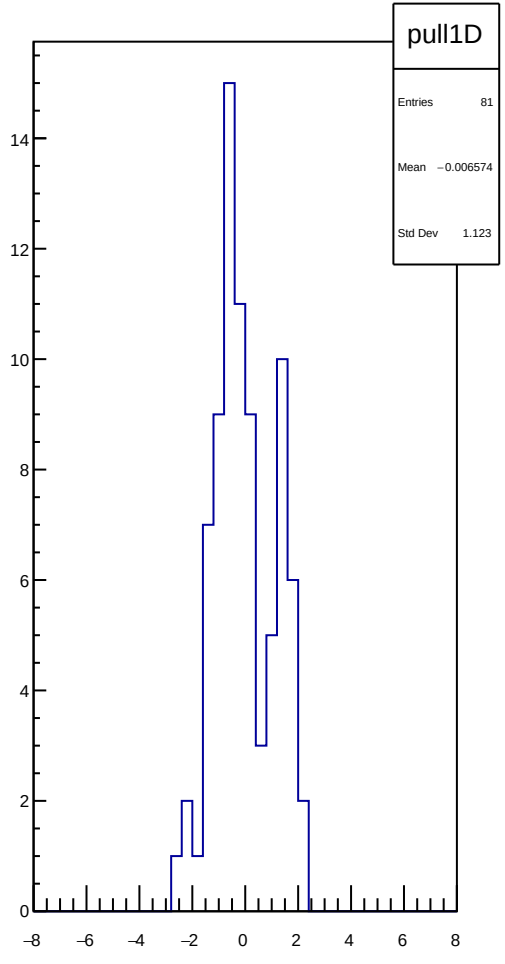

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.42e+04 / 80
p0 425.3 ± 0.3433
550
500
450
400
350

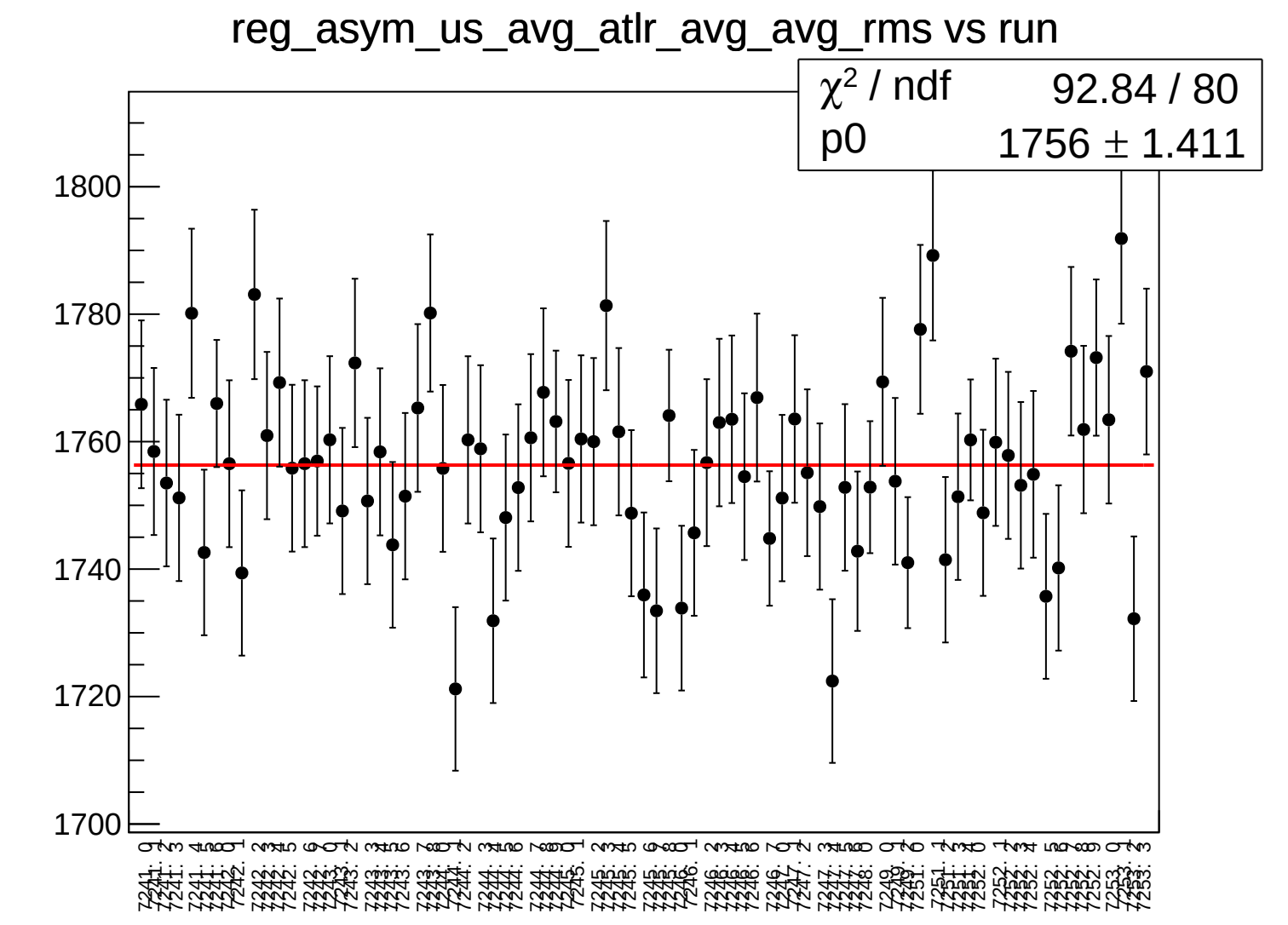

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.4 / 80
p0 1.254e−13 ± 1.173e−13
pull
Entries 81
Mean −34.66
Std Dev 0

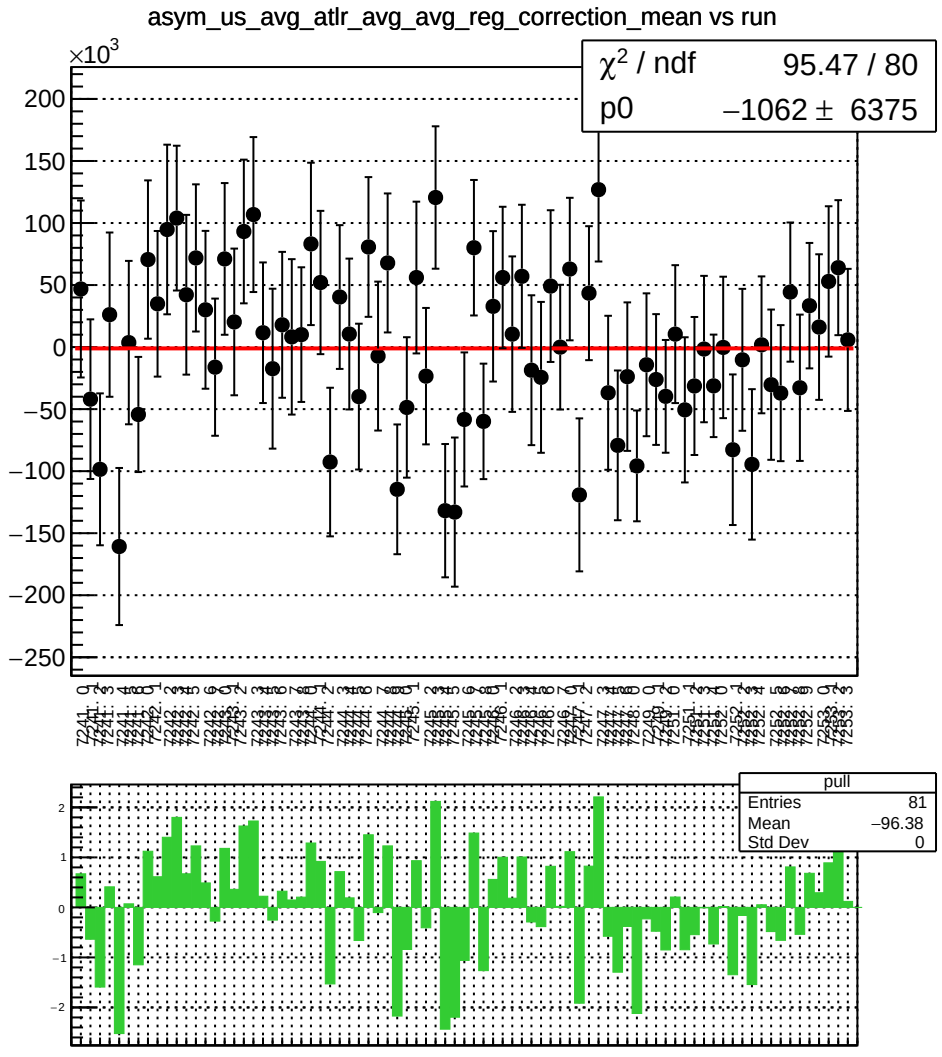

pull1D
Entries 81
Mean −0.02389
Std Dev 0.9835

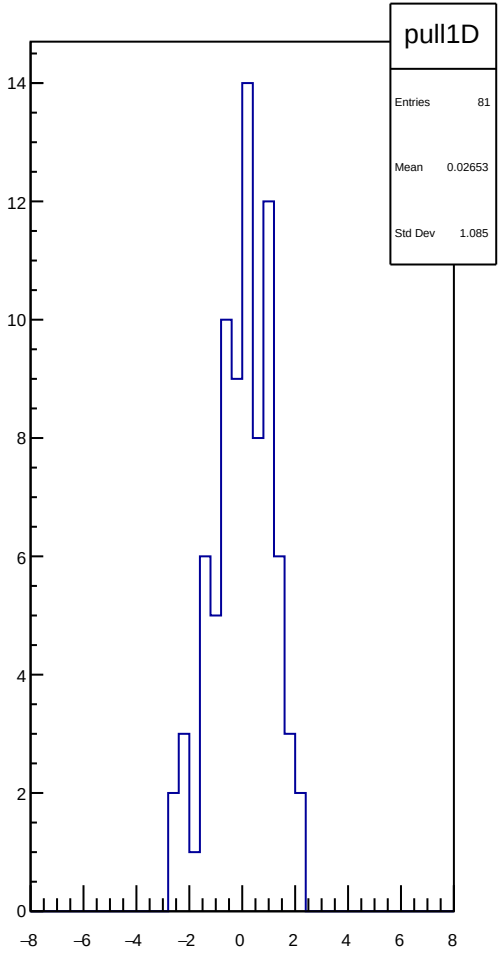

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 5.111e+05 / 80
p0 8.451e−11 ± 8.294e−14

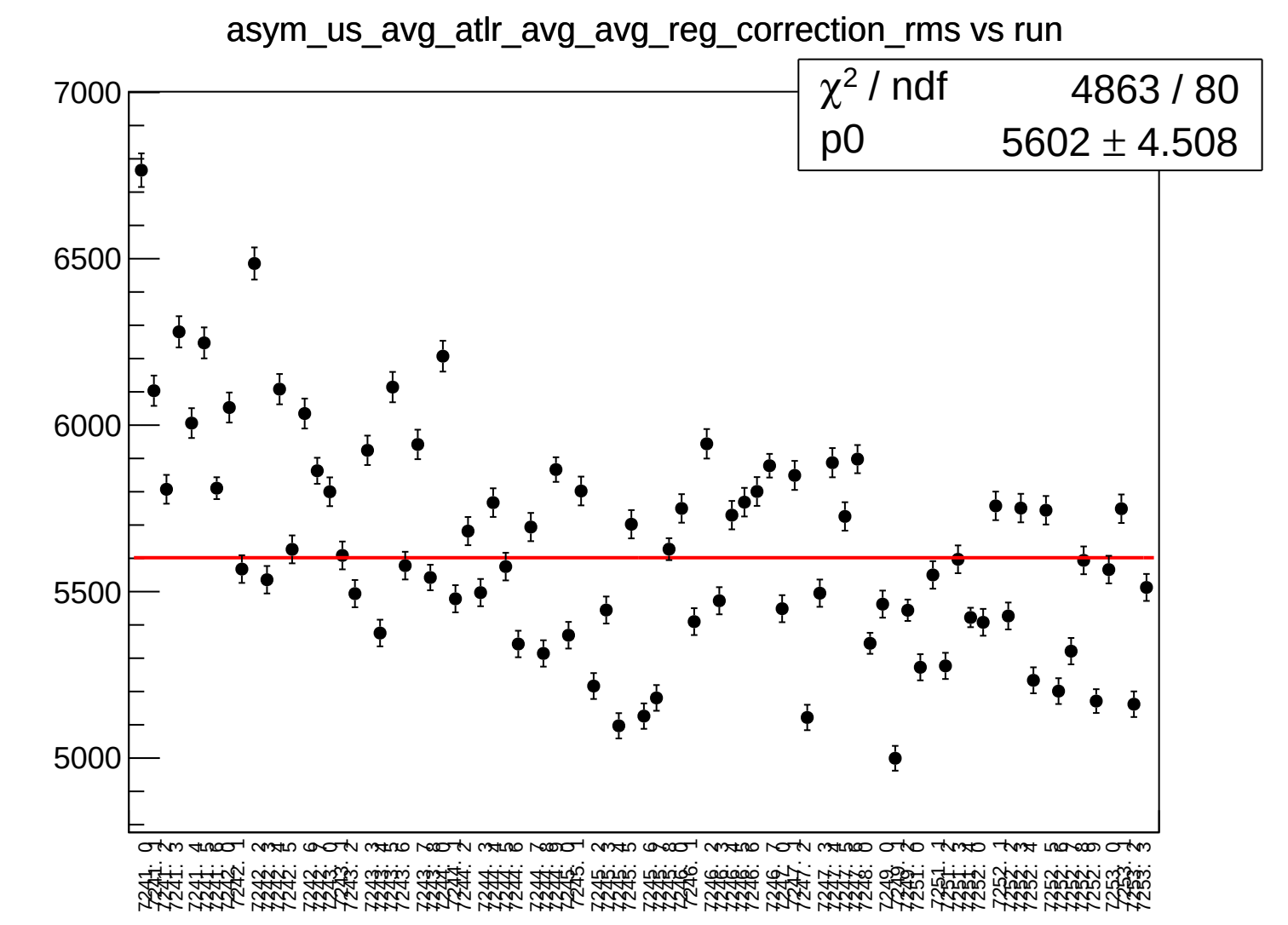

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 102.2 / 80
p0 3563 ± 1996
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean 319.1
Std Dev 0
2
1
0
−1
−2
−3

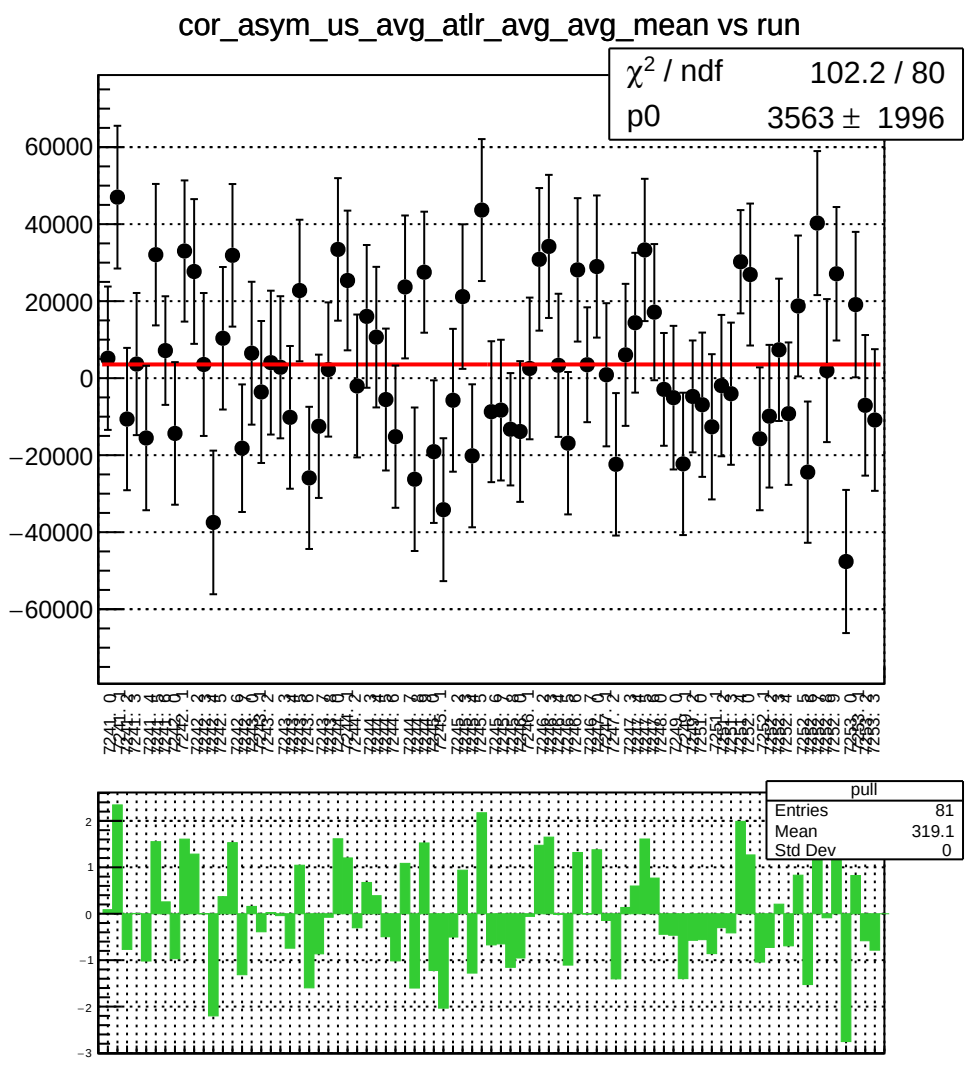

pull1D
Entries 81
Mean −0.006574
Std Dev 1.123
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

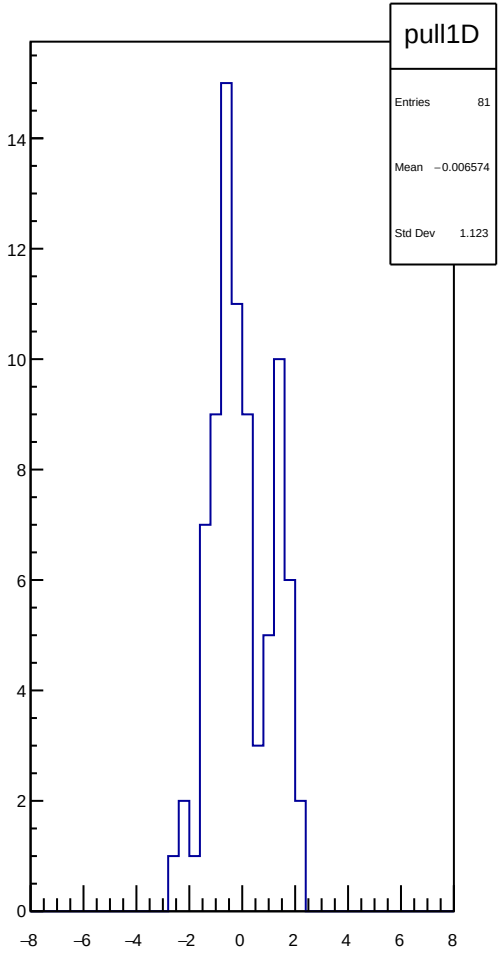

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 92.84 / 80
p0 1756 ± 1.411
1800
1780
1760
1740
1720
1700

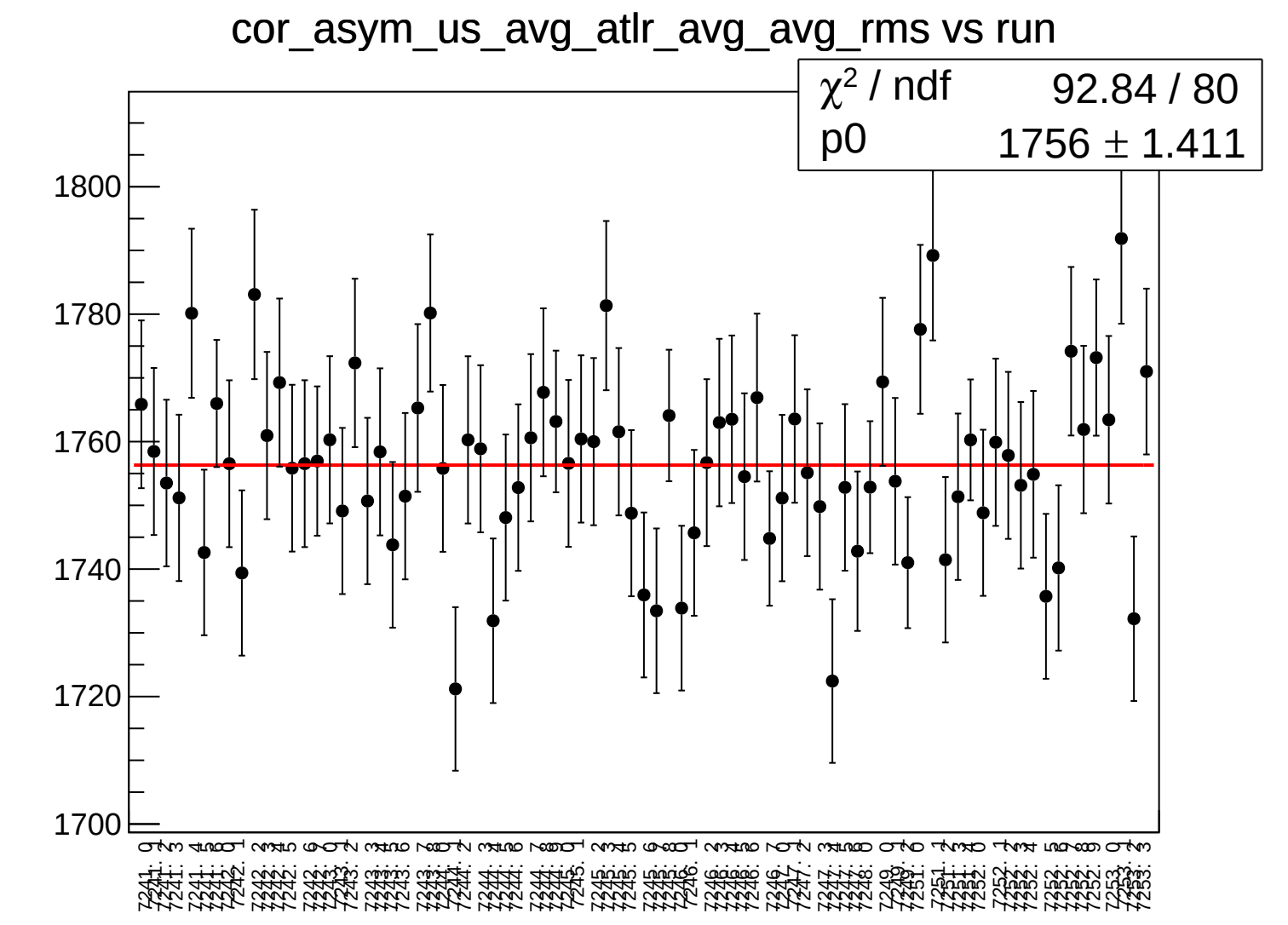

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 95.47 / 80
p0 −1062 ± 6375
pull
Entries 81
Mean −96.38
Std Dev 0

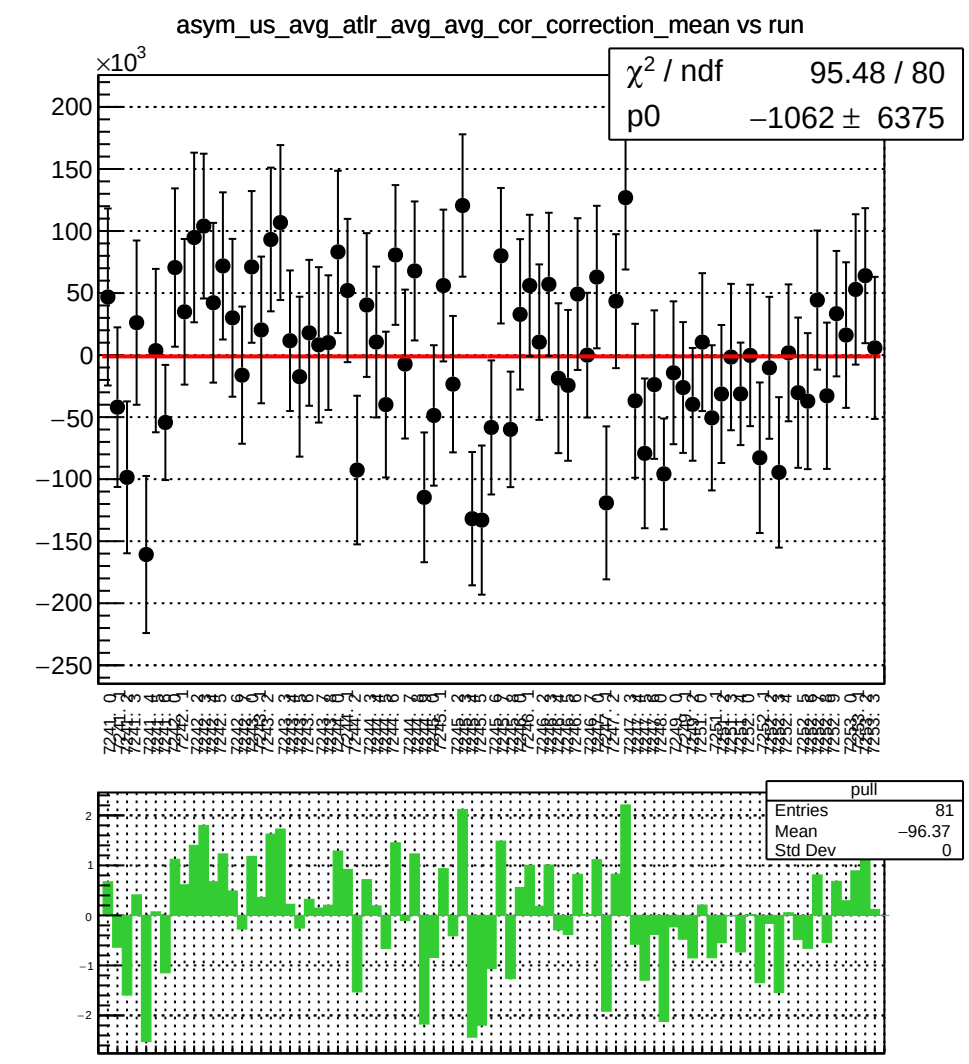

pull1D
Entries 81
Mean 0.02653
Std Dev 1.085

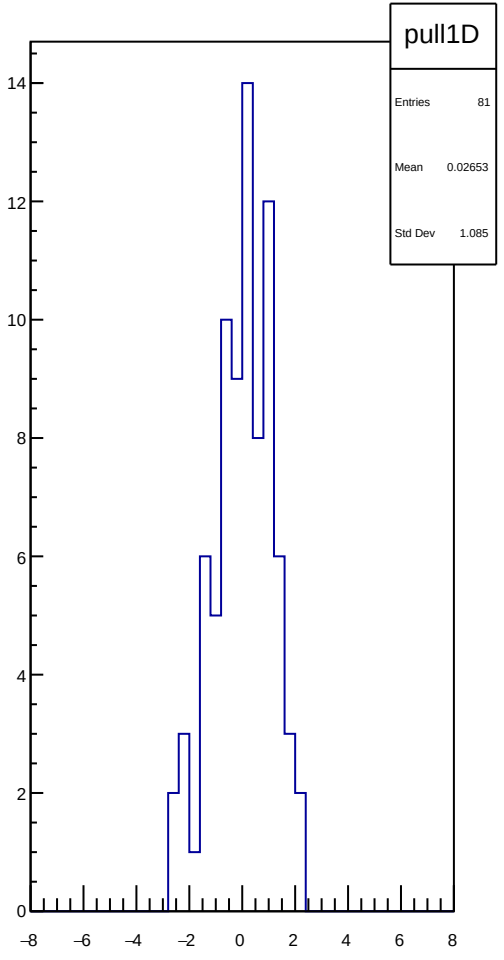

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ² / ndf 4863 / 80
p0 5602 ± 4.508
7000
6500
6000
5500
5000

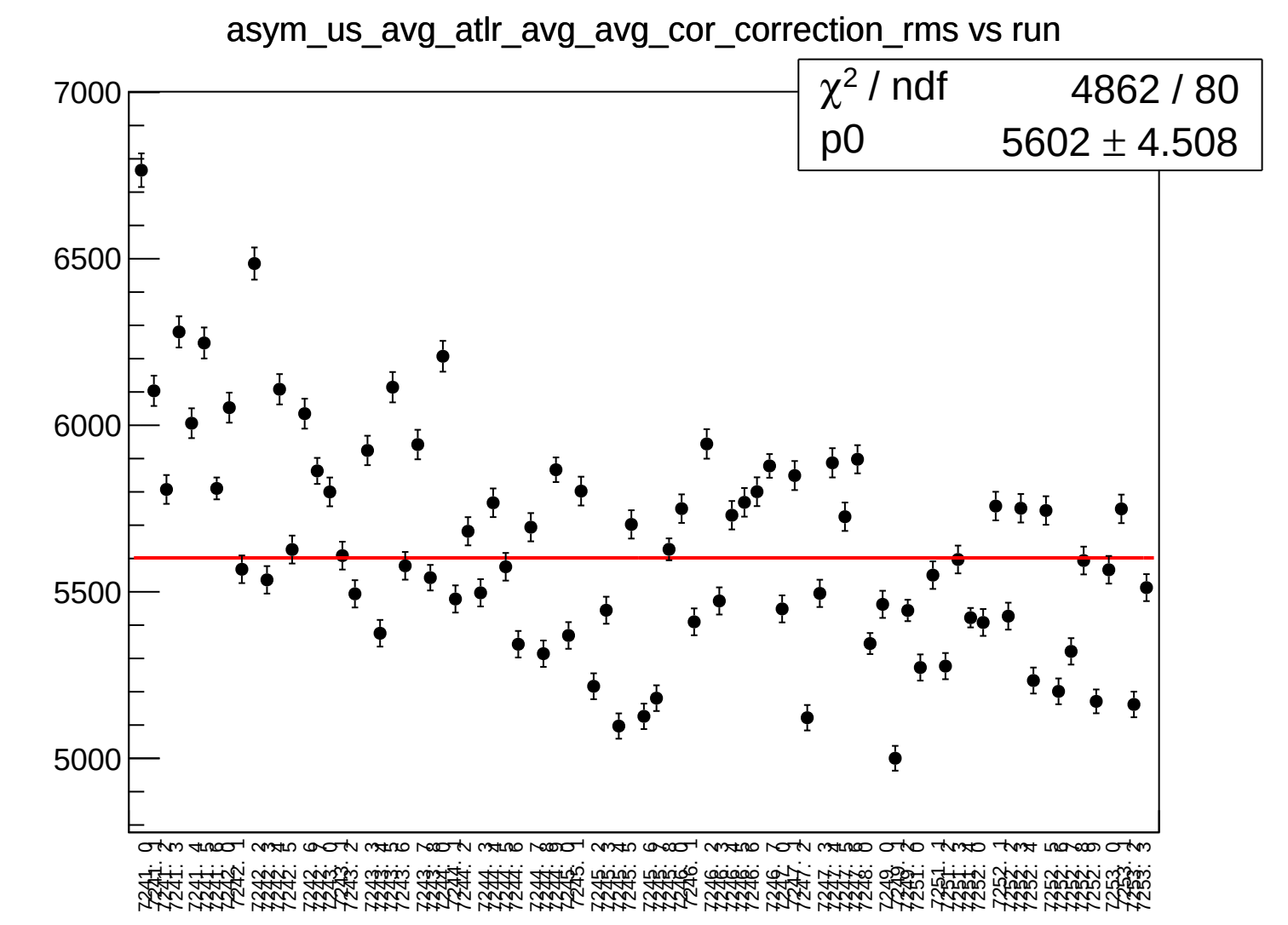

cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 102.2 / 80
p0 3563 ± 1996
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean 319.1
Std Dev 0
2
1
0
−1
−2
−3

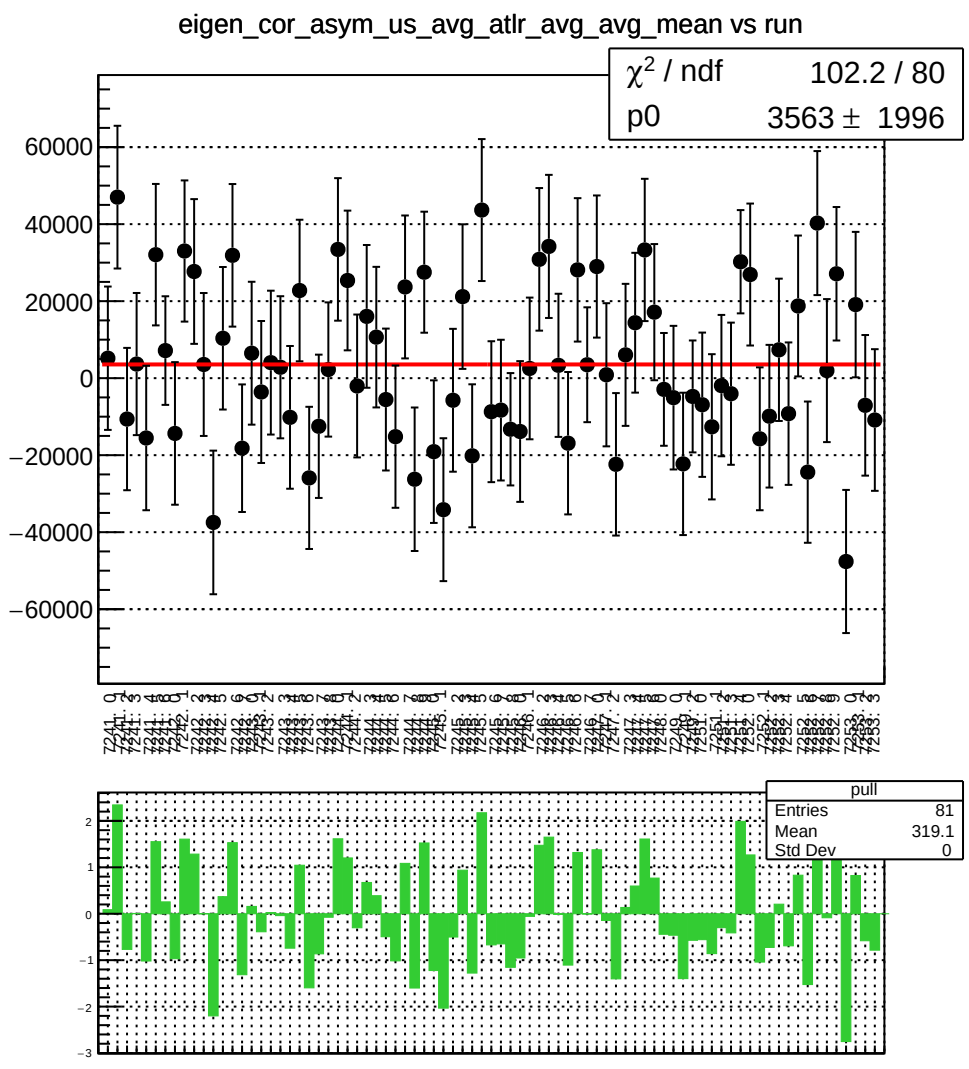

pull1D
Entries 81
Mean −0.006574
Std Dev 1.123
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

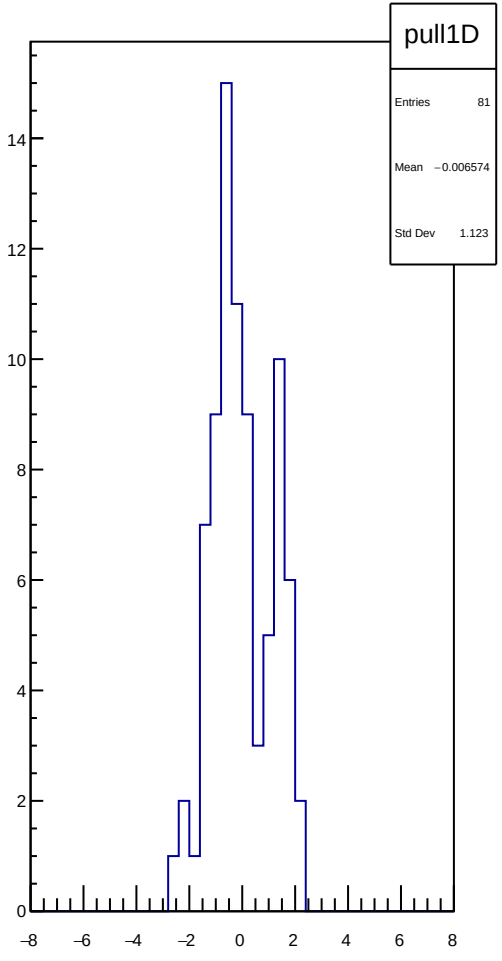

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 92.84 / 80
p0 1756 ± 1.411
1800
1780
1760
1740
1720
1700

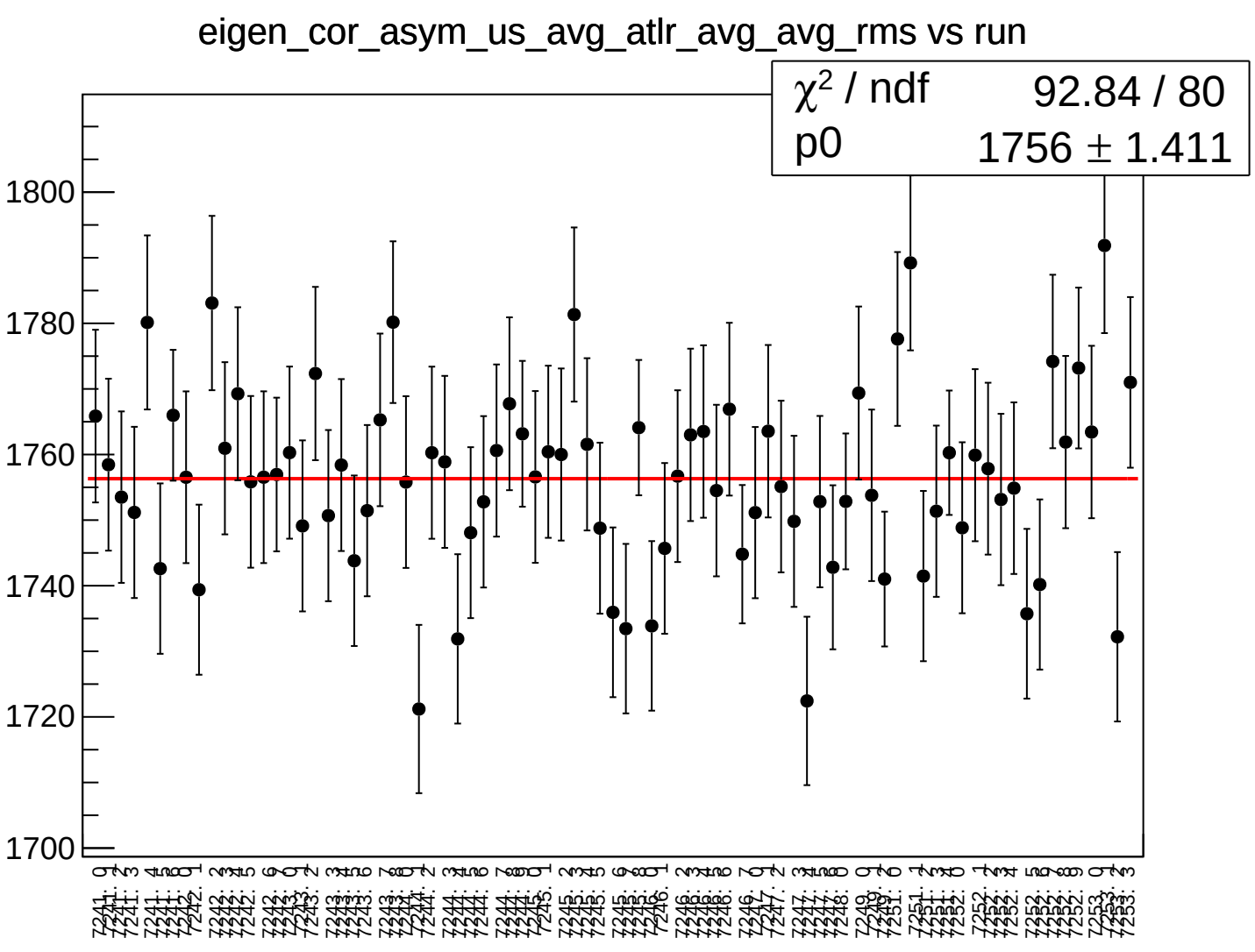

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 95.48 / 80
p0 −1062 ± 6375
pull
Entries 81
Mean −96.37
Std Dev 0

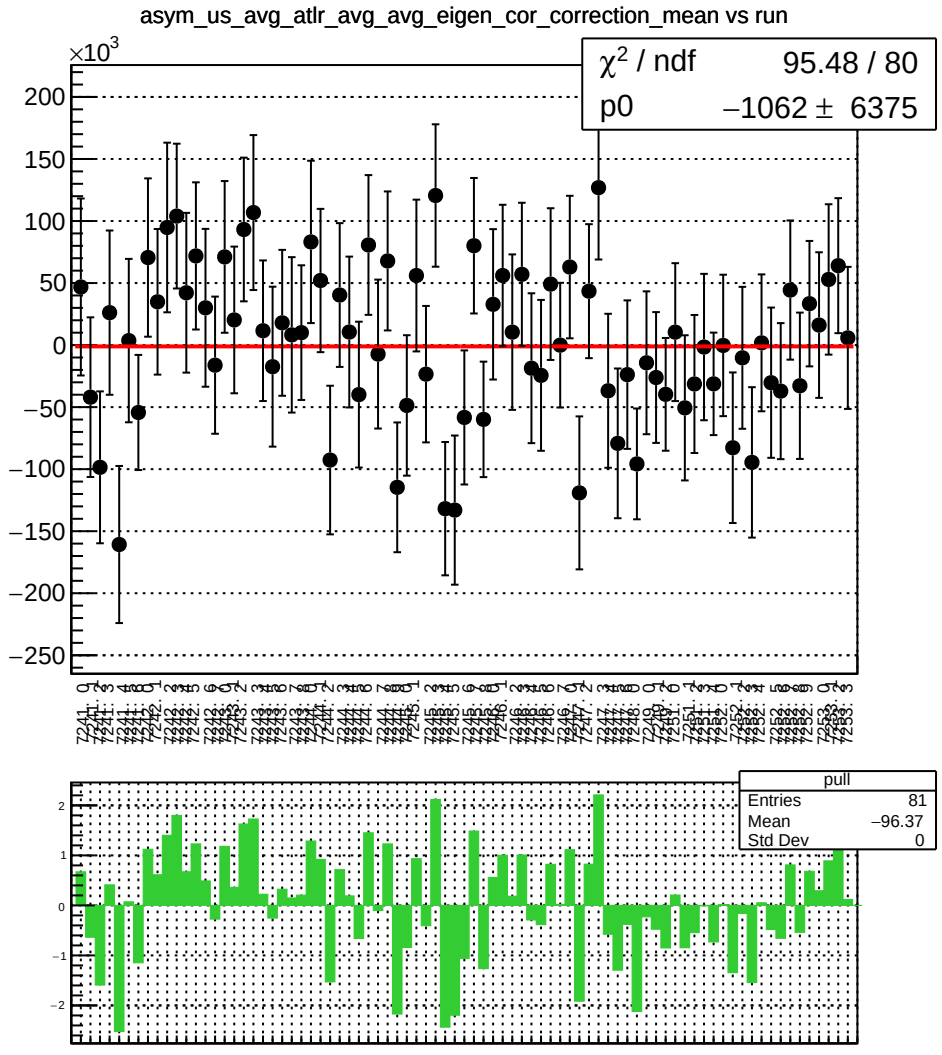

pull1D
Entries 81
Mean 0.02653
Std Dev 1.085

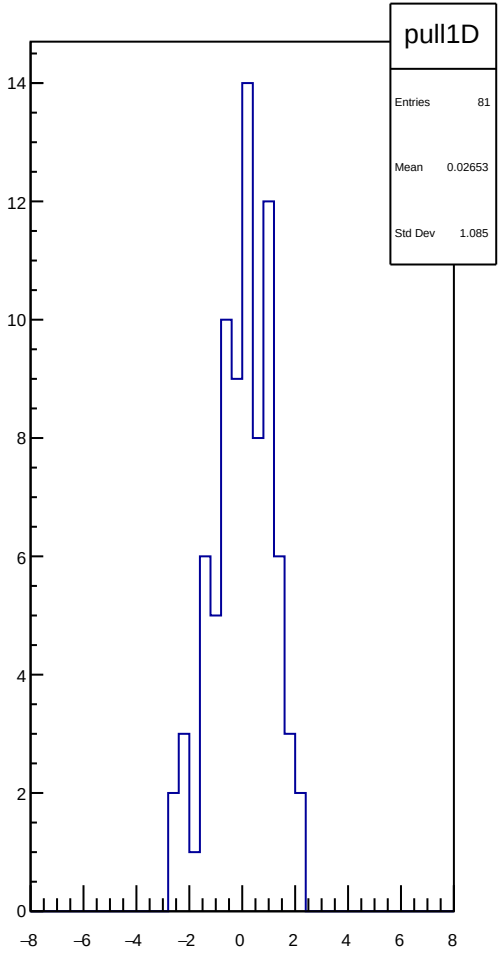

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ² / ndf 4862 / 80
p0 5602 ± 4.508
7000
6500
6000
5500
5000

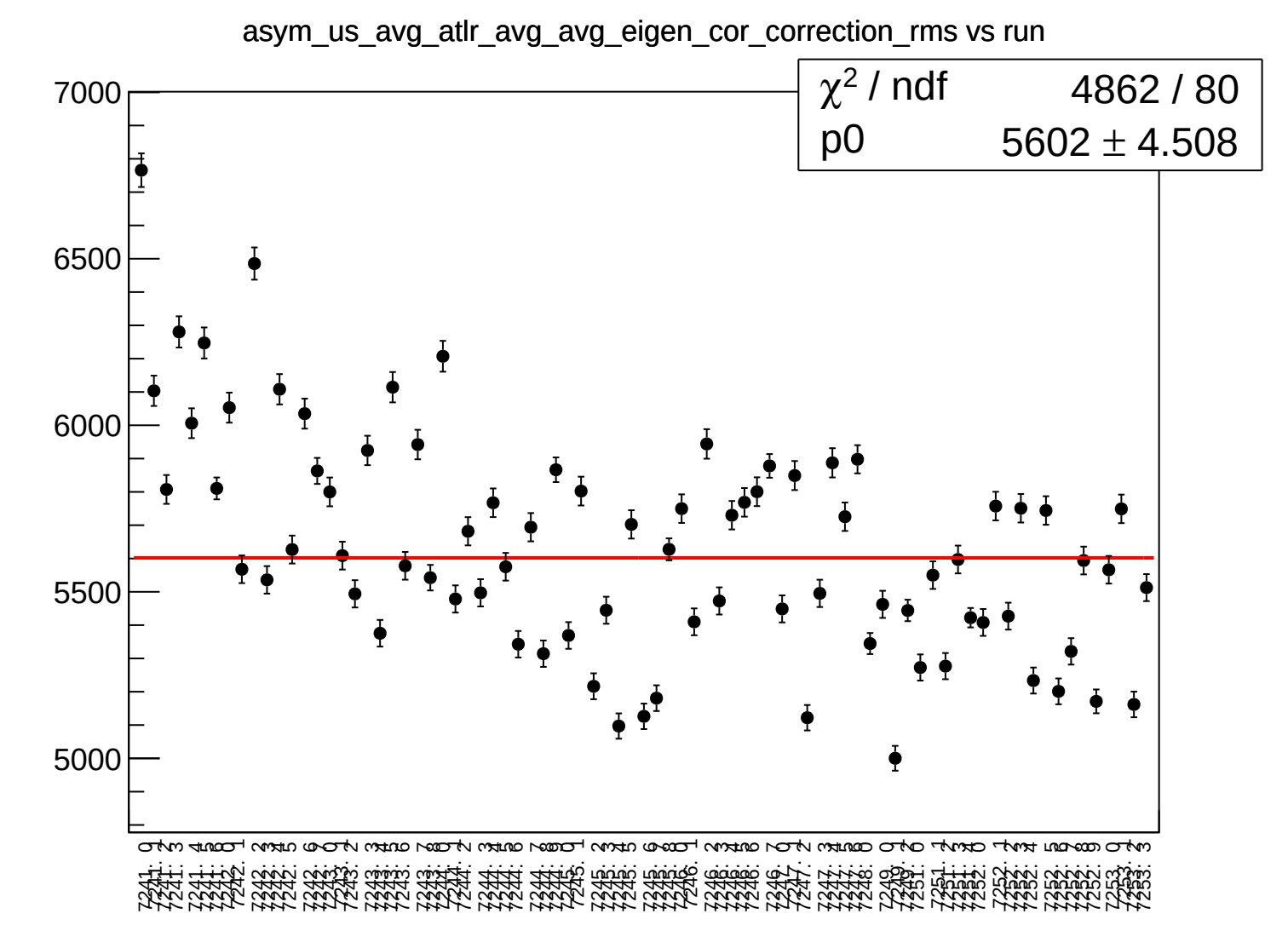

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 102.2 / 80
p0 3563 ± 1996
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean 319.1
Std Dev 0
2
1
0
−1
−2
−3

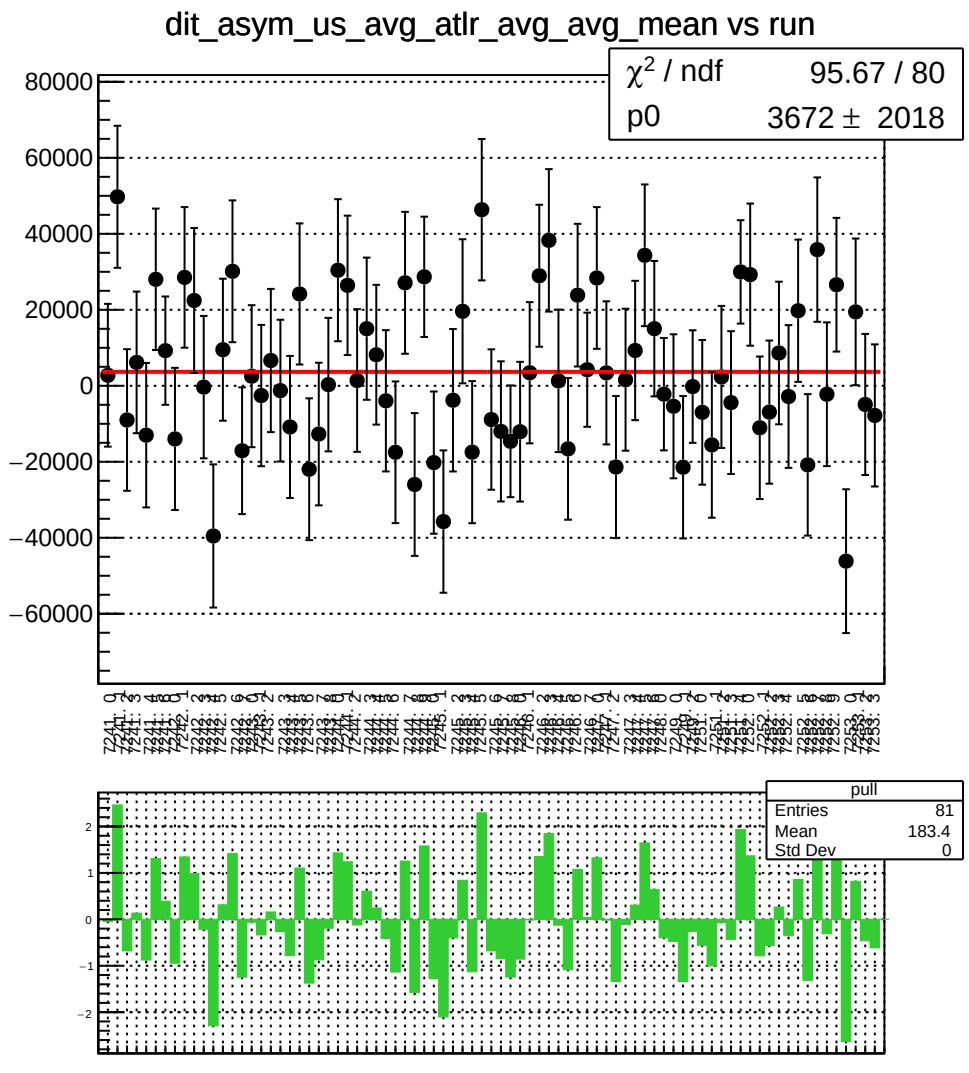

pull1D
Entries 81
Mean −0.006574
Std Dev 1.123
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

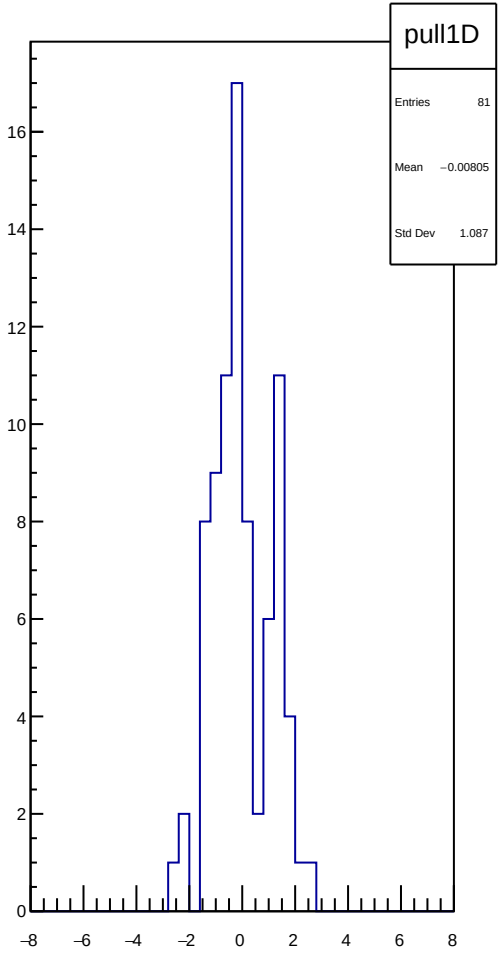

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 92.84 / 80
p0 1756 ± 1.411
1800
1780
1760
1740
1720
1700

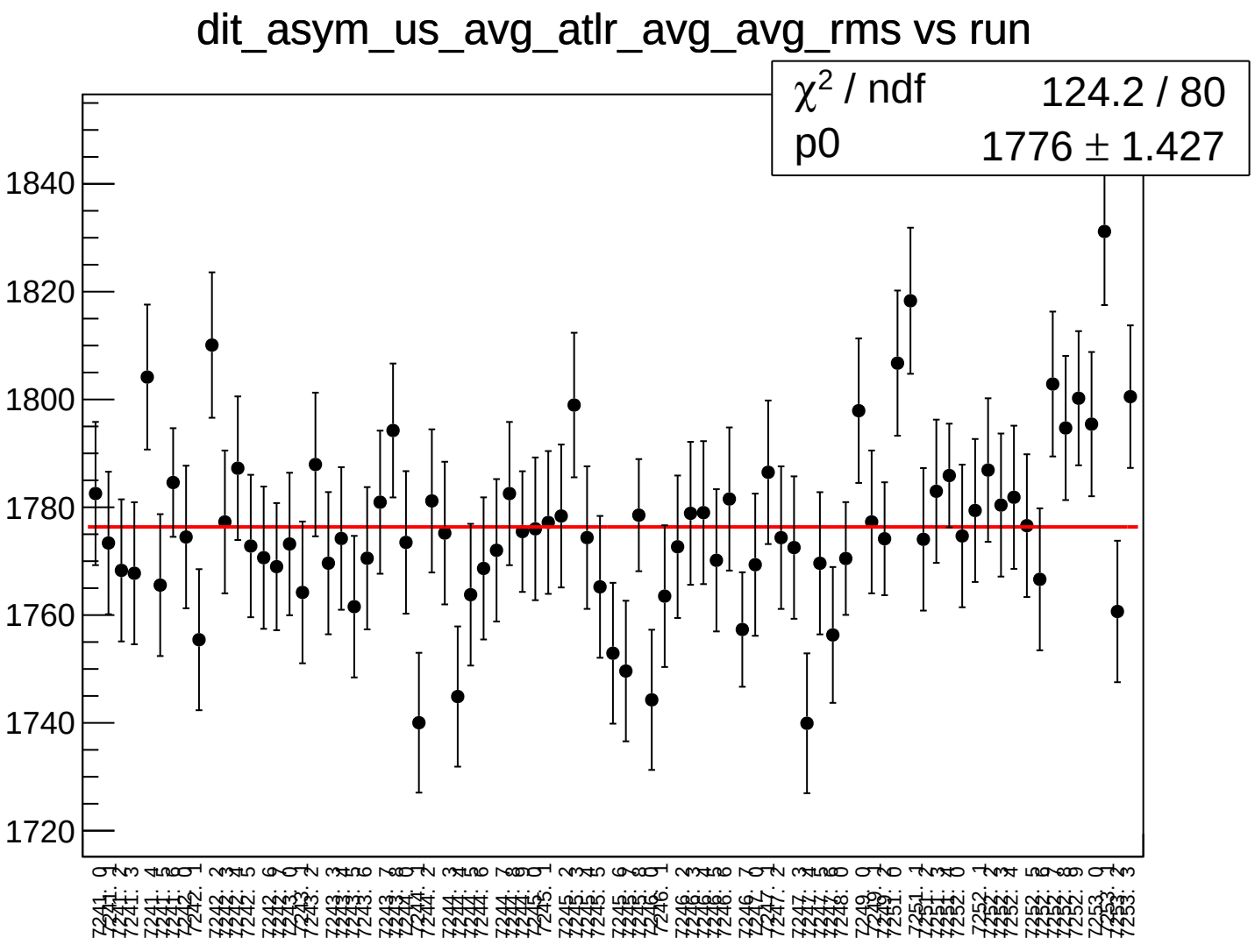

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 95.48 / 80
p0 −1062 ± 6375
pull
Entries 81
Mean −96.37
Std Dev 0

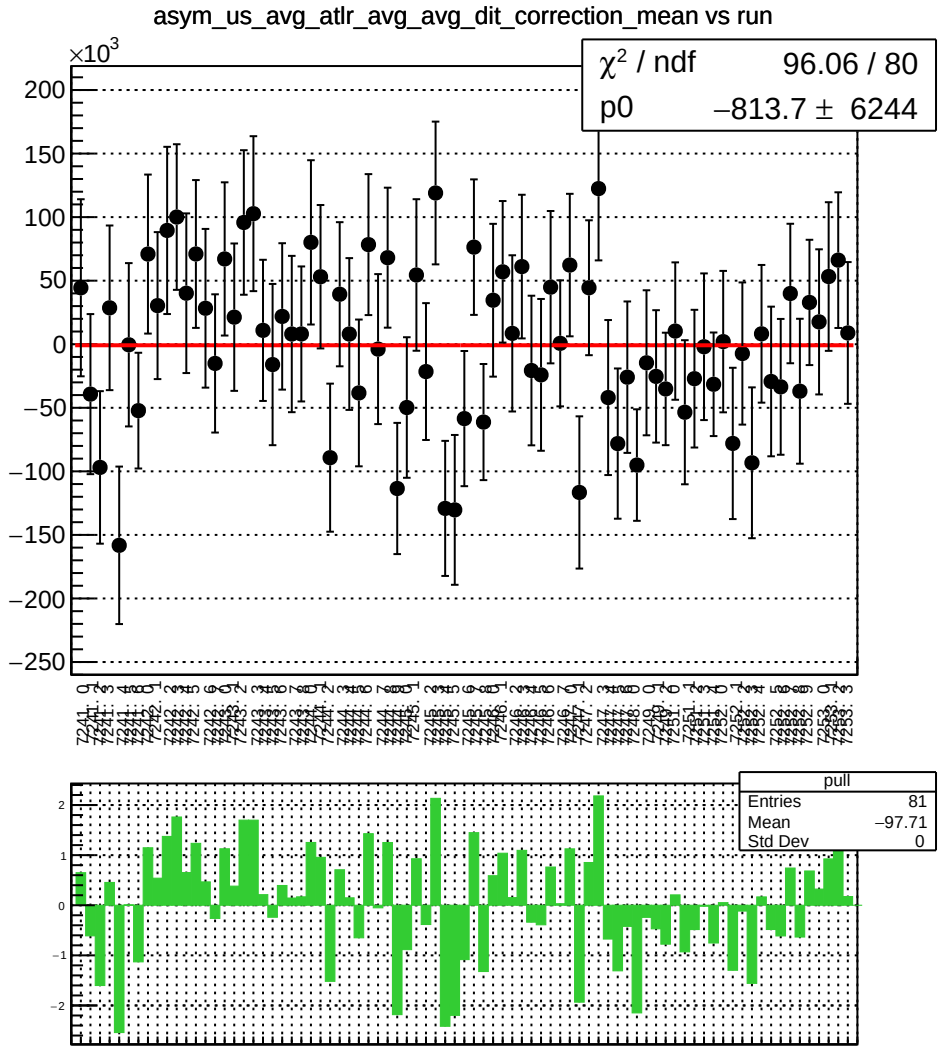

pull1D
Entries 81
Mean 0.02653
Std Dev 1.085

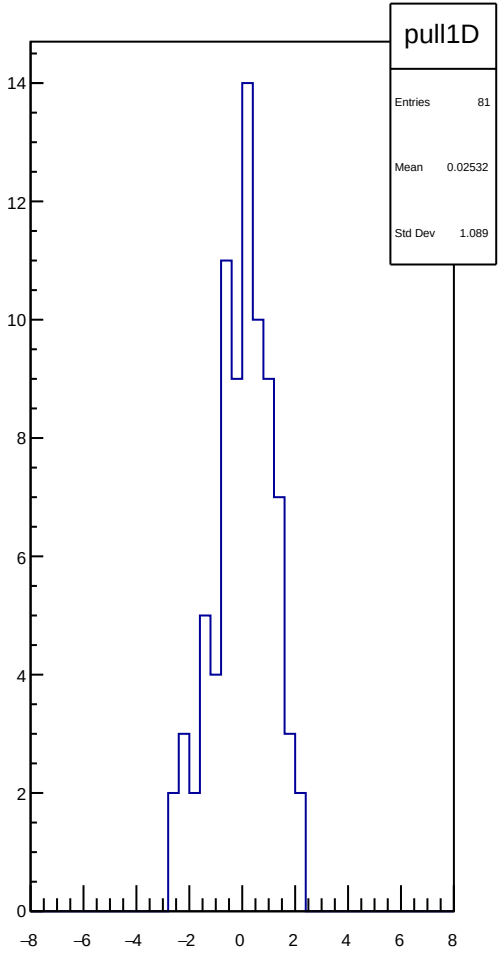

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 4862 / 80
p0 5602 ± 4.508
7000
6500
6000
5500
5000

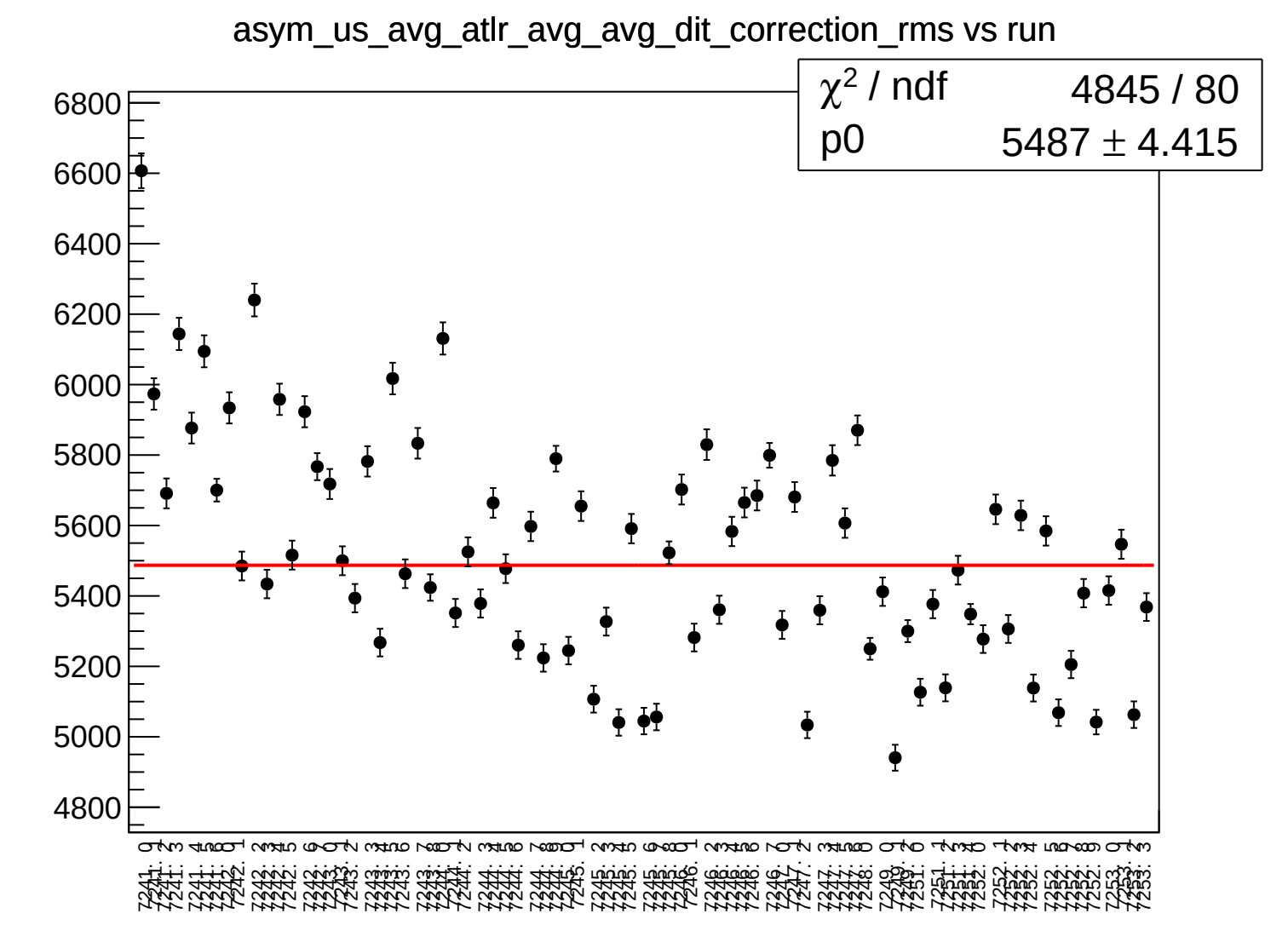

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 95.67 / 80
p0 3672 ± 2018
pull
Entries 81
Mean 183.4
Std Dev 0

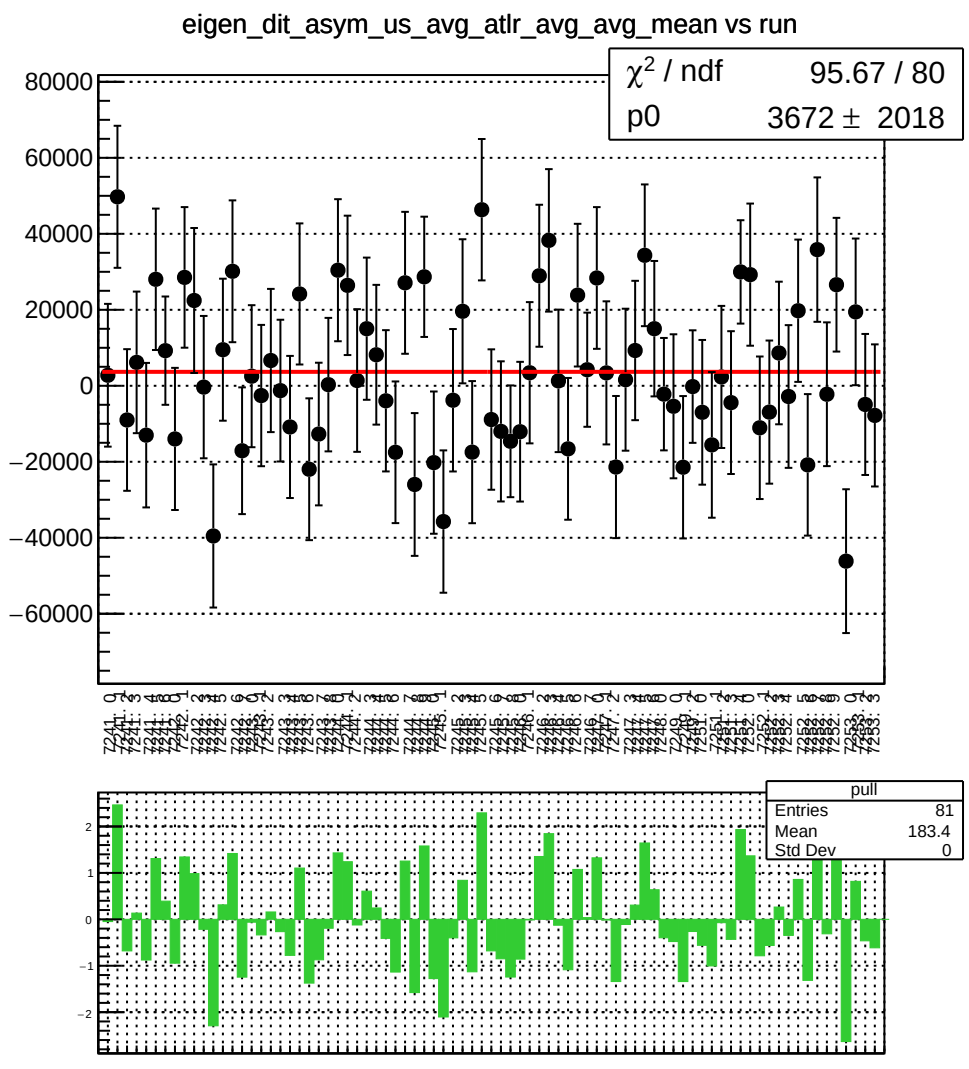

pull1D
Entries 81
Mean −0.00805
Std Dev 1.087

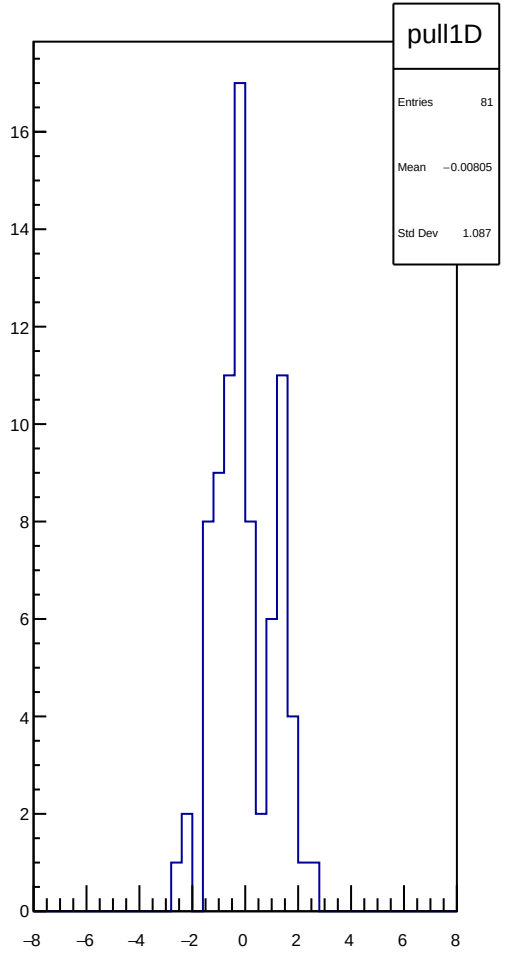

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 124.2 / 80
p0 1776 ± 1.427
1840
1820
1800
1780
1760
1740
1720

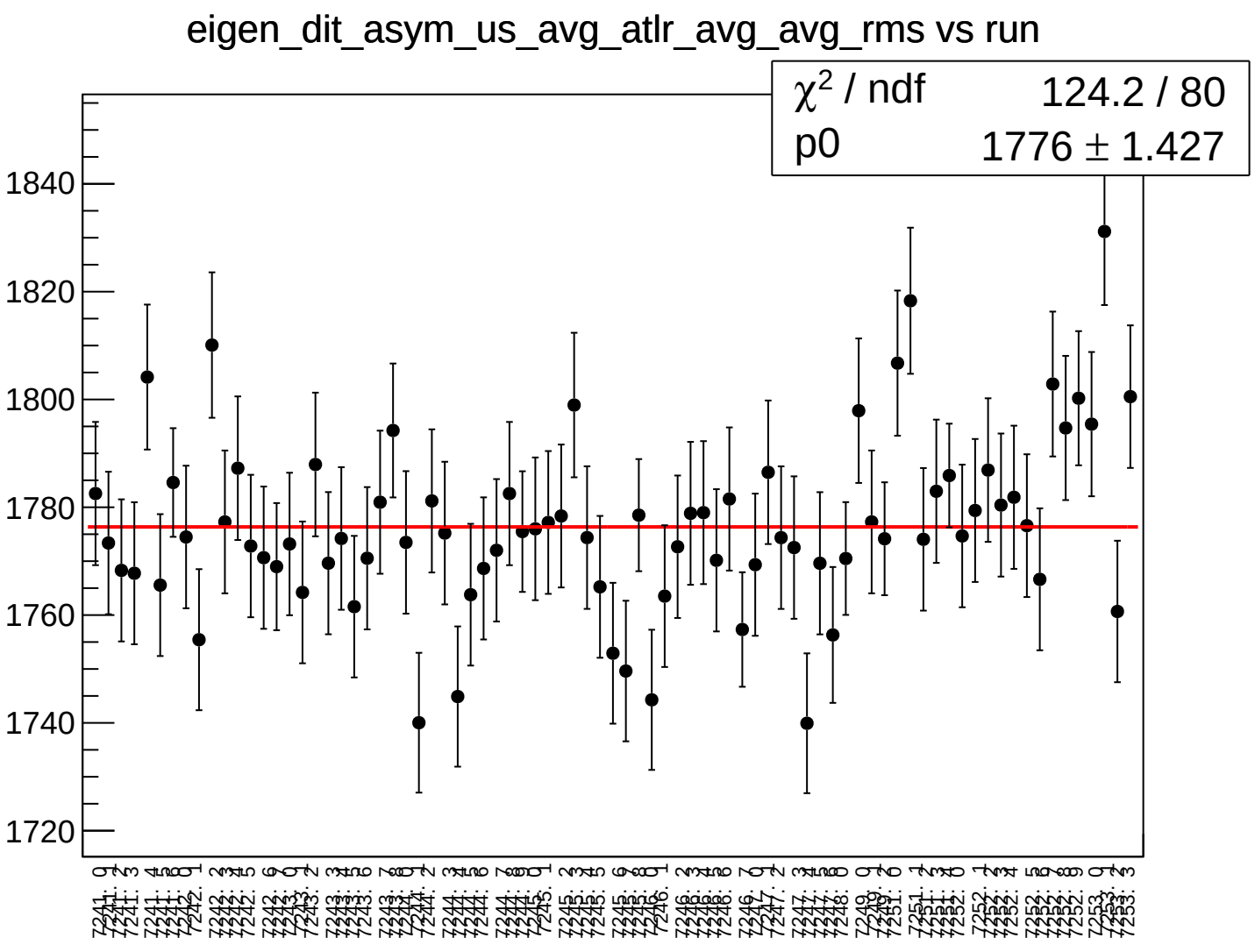

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 96.06 / 80
p0 −813.7 ± 6244
pull
Entries 81
Mean −97.71
Std Dev 0

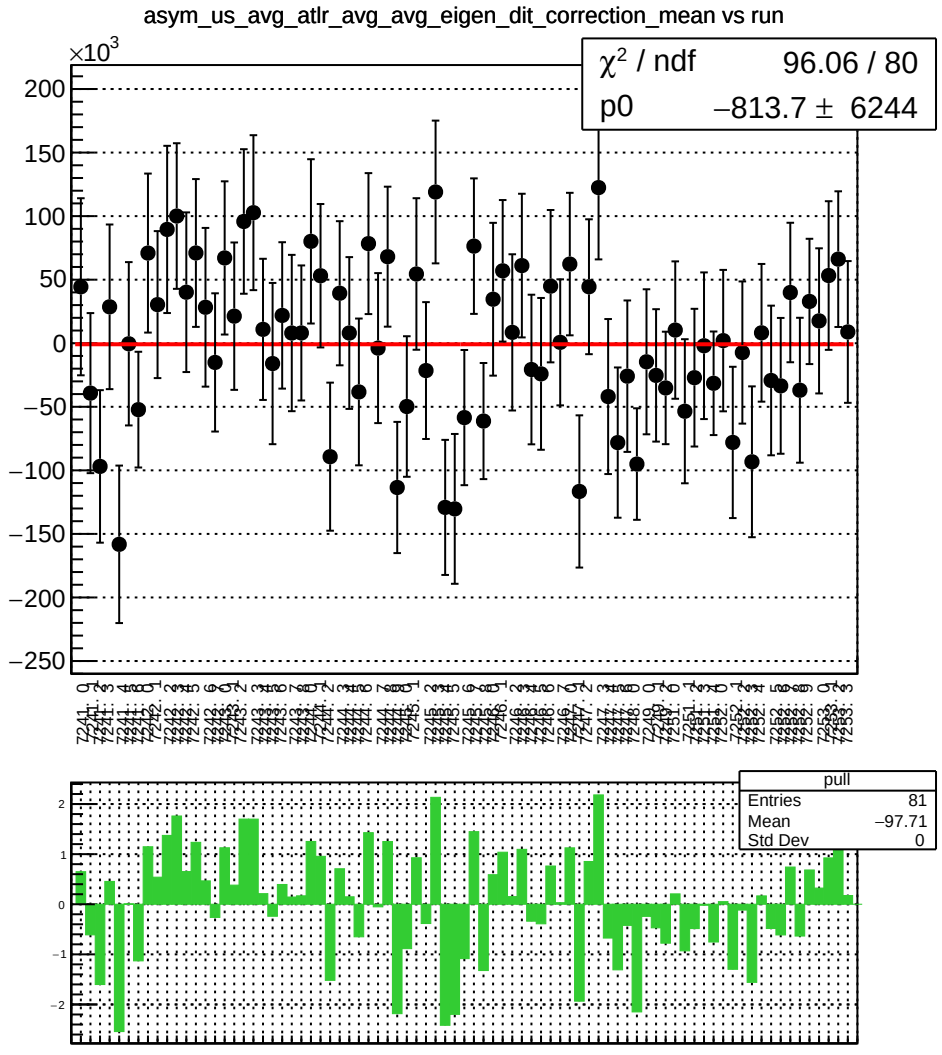

pull1D
Entries 81
Mean 0.02532
Std Dev 1.089

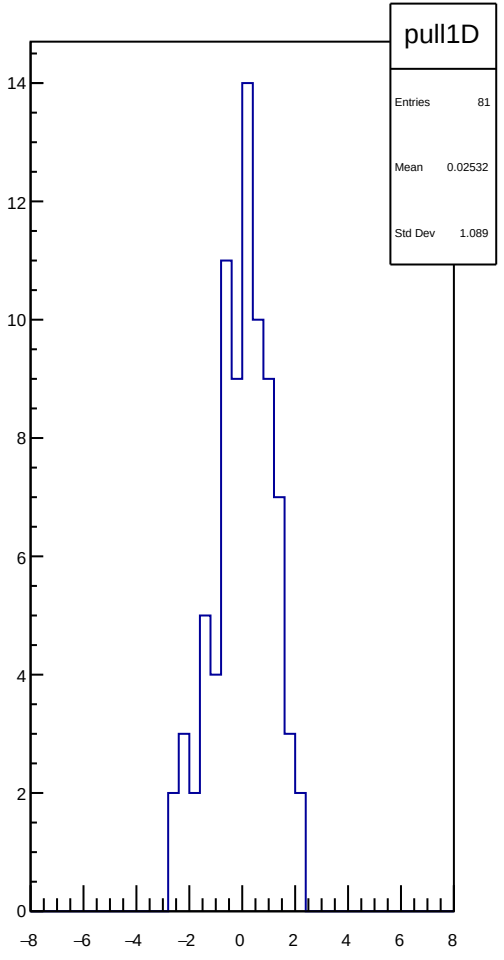

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ² / ndf 4845 / 80
p0 5487 ± 4.415
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800

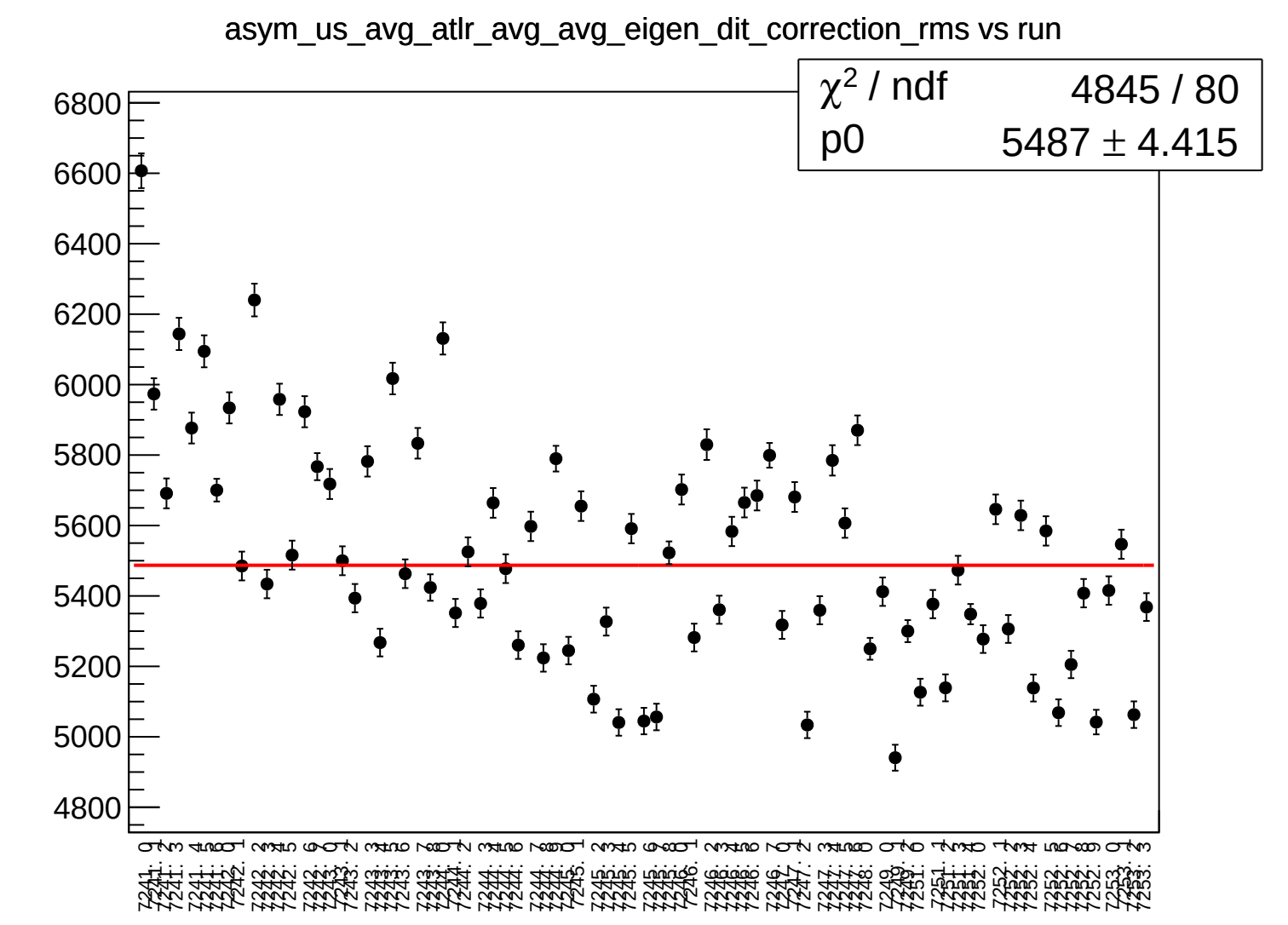

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 95.67 / 80
p0 3672 ± 2018
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean 183.4
Std Dev 0
2
1
0
−1
−2

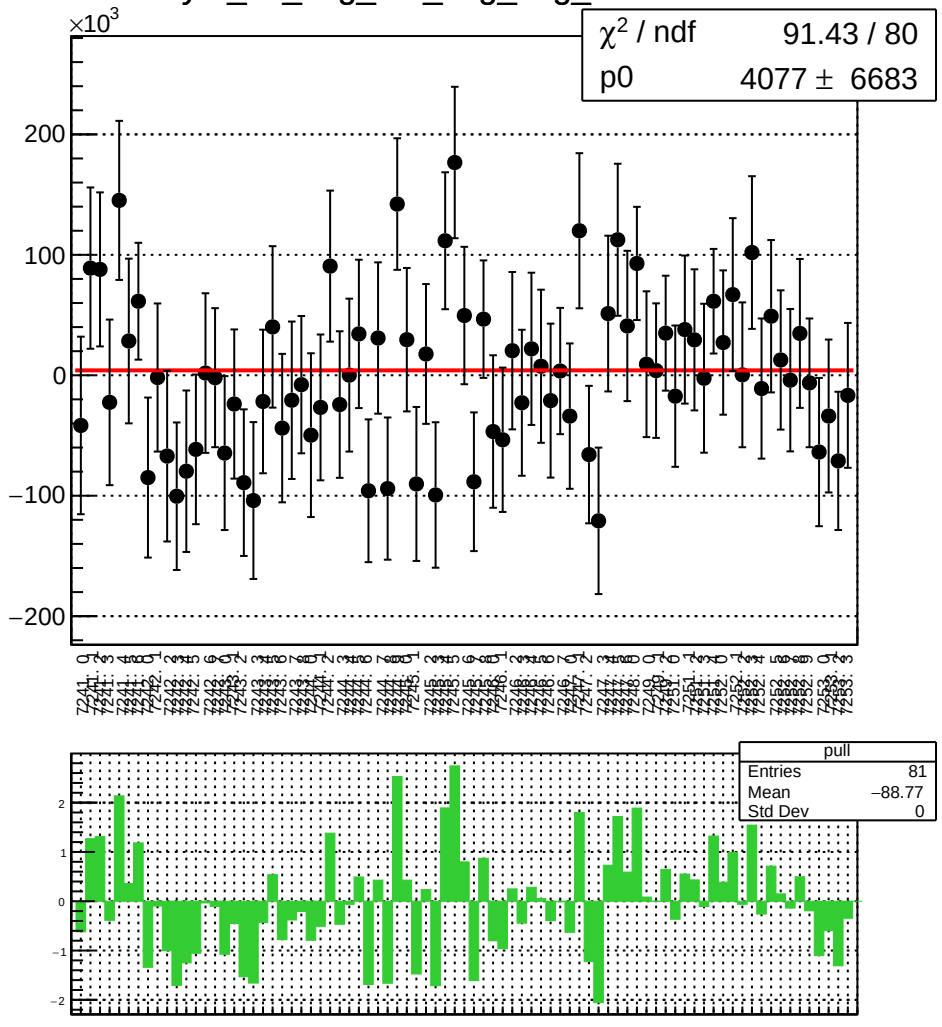

pull1D
Entries 81
Mean −0.00805
Std Dev 1.087
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

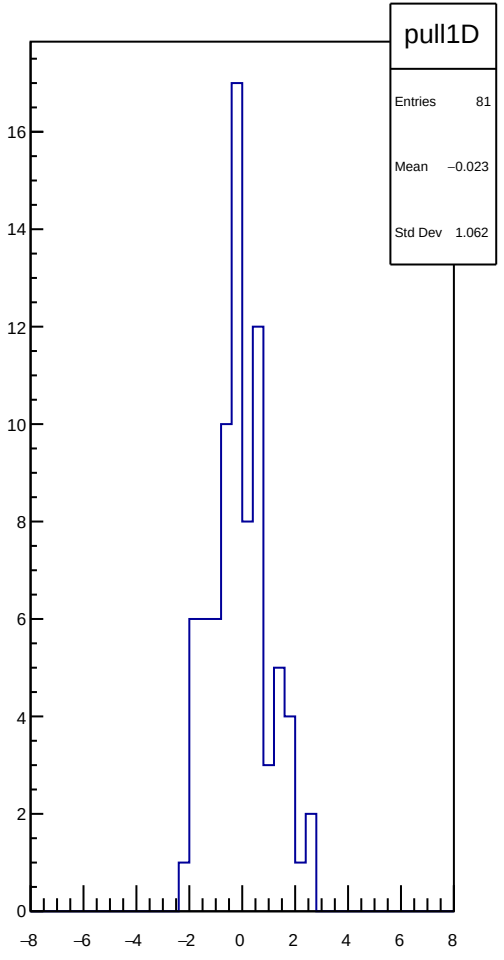

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 124.2 / 80
p0 1776 ± 1.427
1840
1820
1800
1780
1760
1740
1720

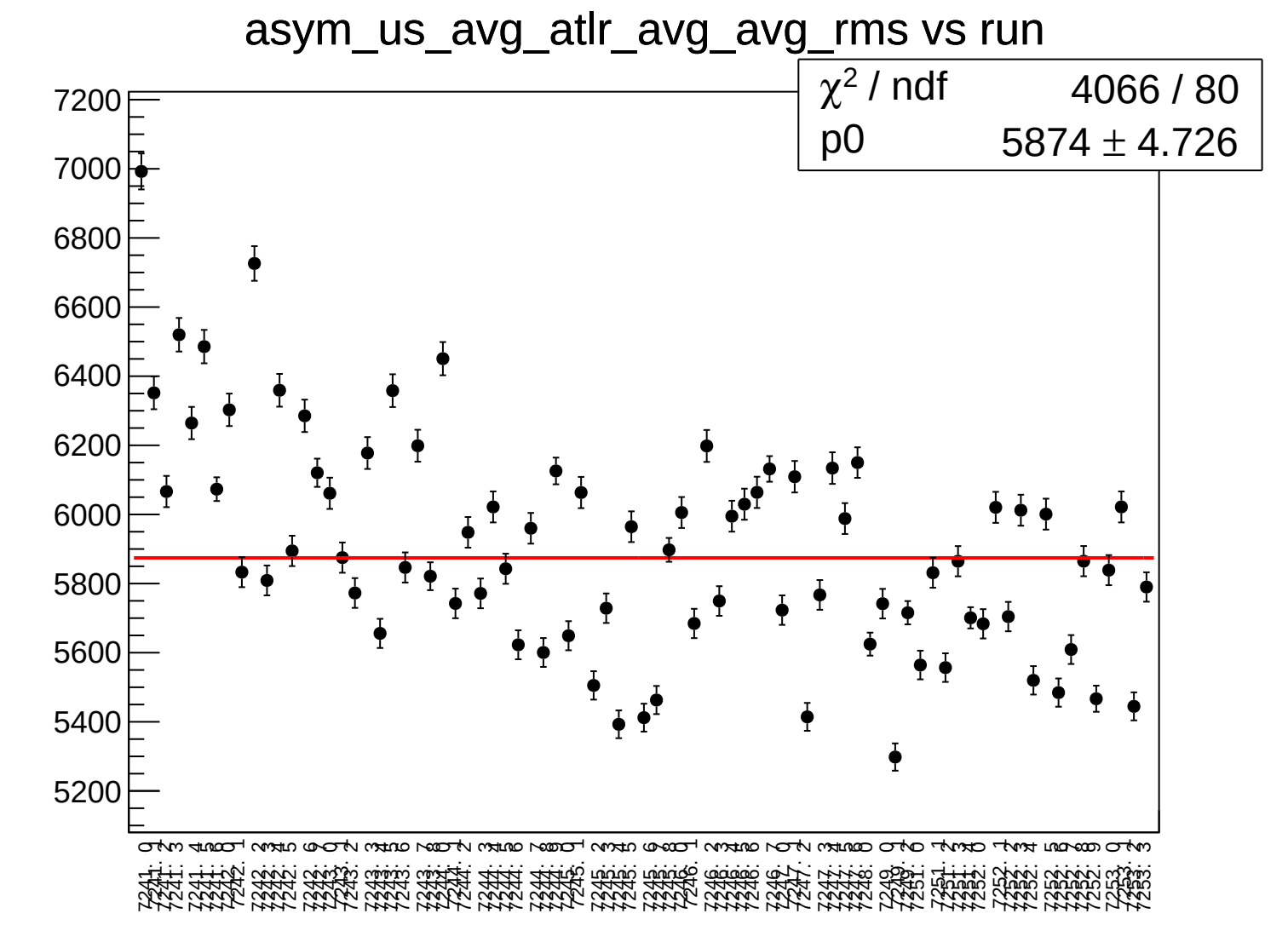

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.06 / 80
p0 −813.7 ± 6244
pull
Entries 81
Mean −97.71
Std Dev 0

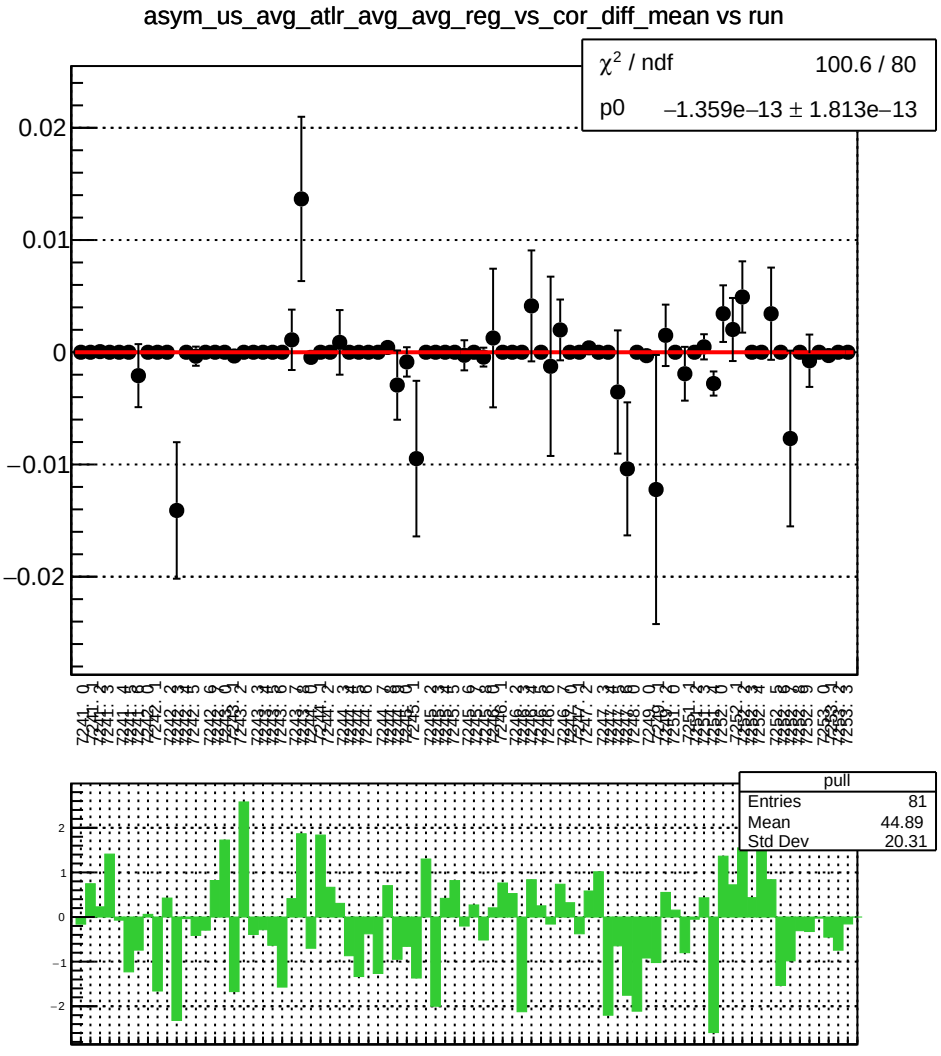

pull1D
Entries 81
Mean 0.02532
Std Dev 1.089

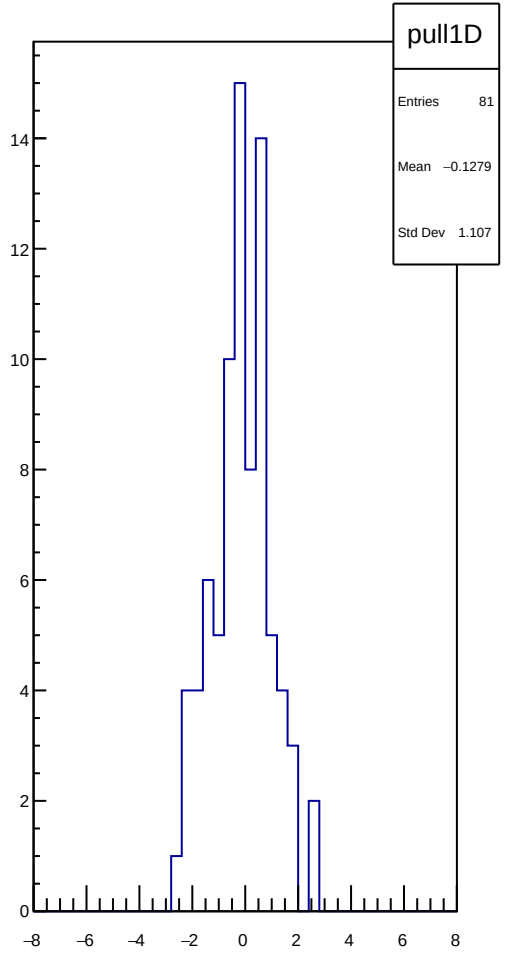

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 4845 / 80
p0 5487 ± 4.415
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800

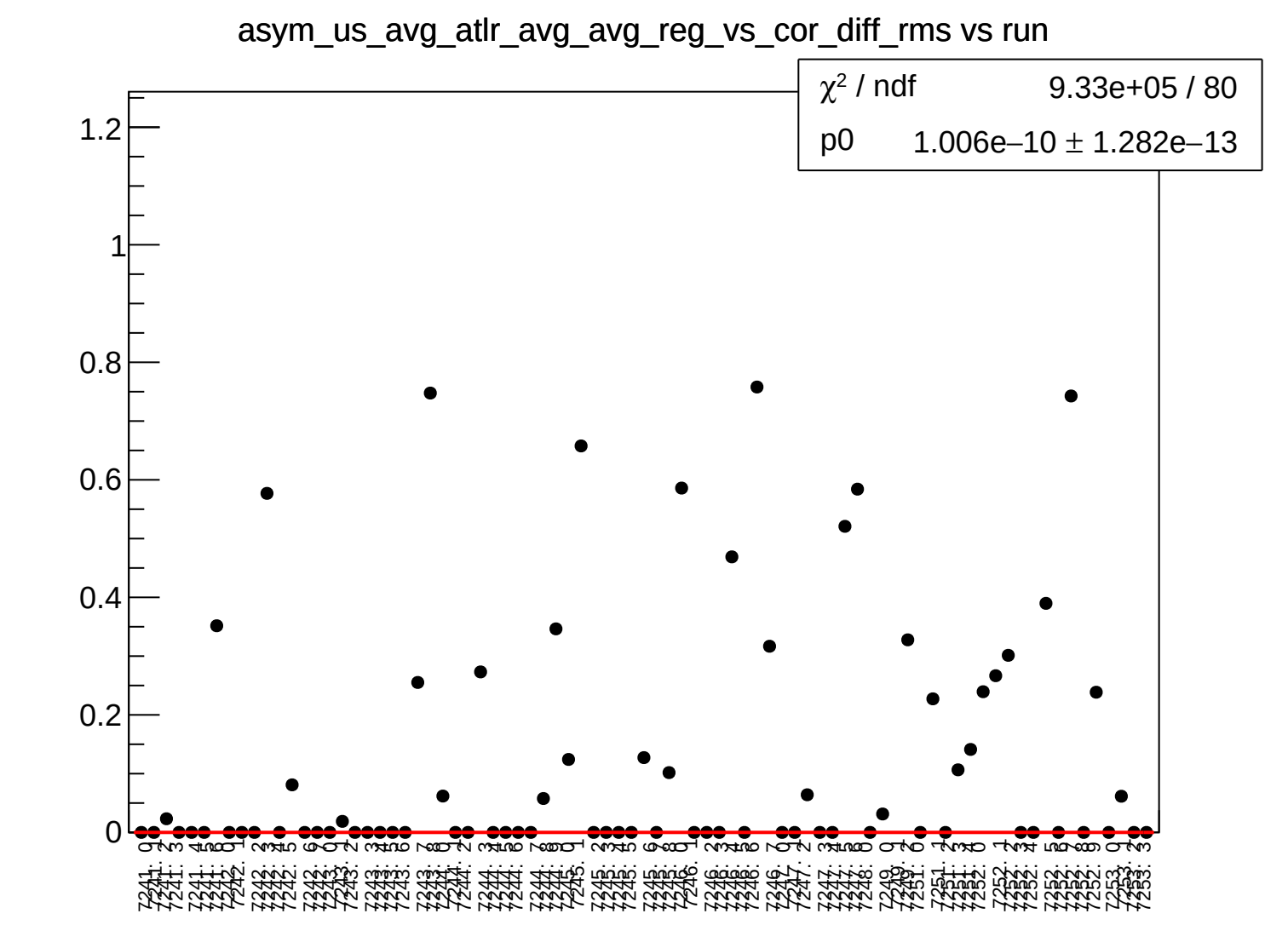

asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 91.43 / 80
p0 4077 ± 6683
×10³
200
100
0
−100
−200
pull
Entries 81
Mean −88.77
Std Dev 0
2
1
0
−1
−2

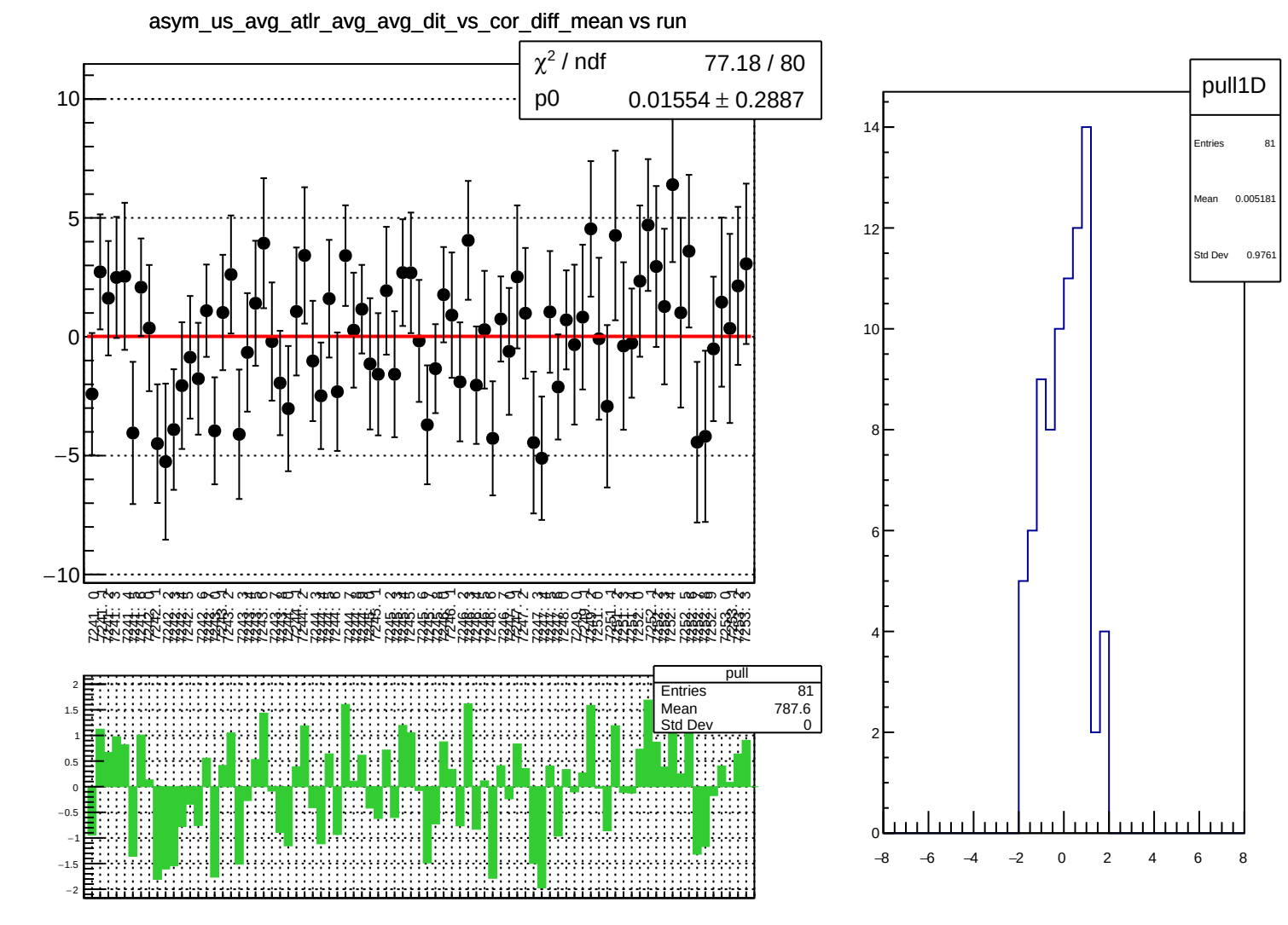

pull1D
Entries 81
Mean −0.023
Std Dev 1.062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

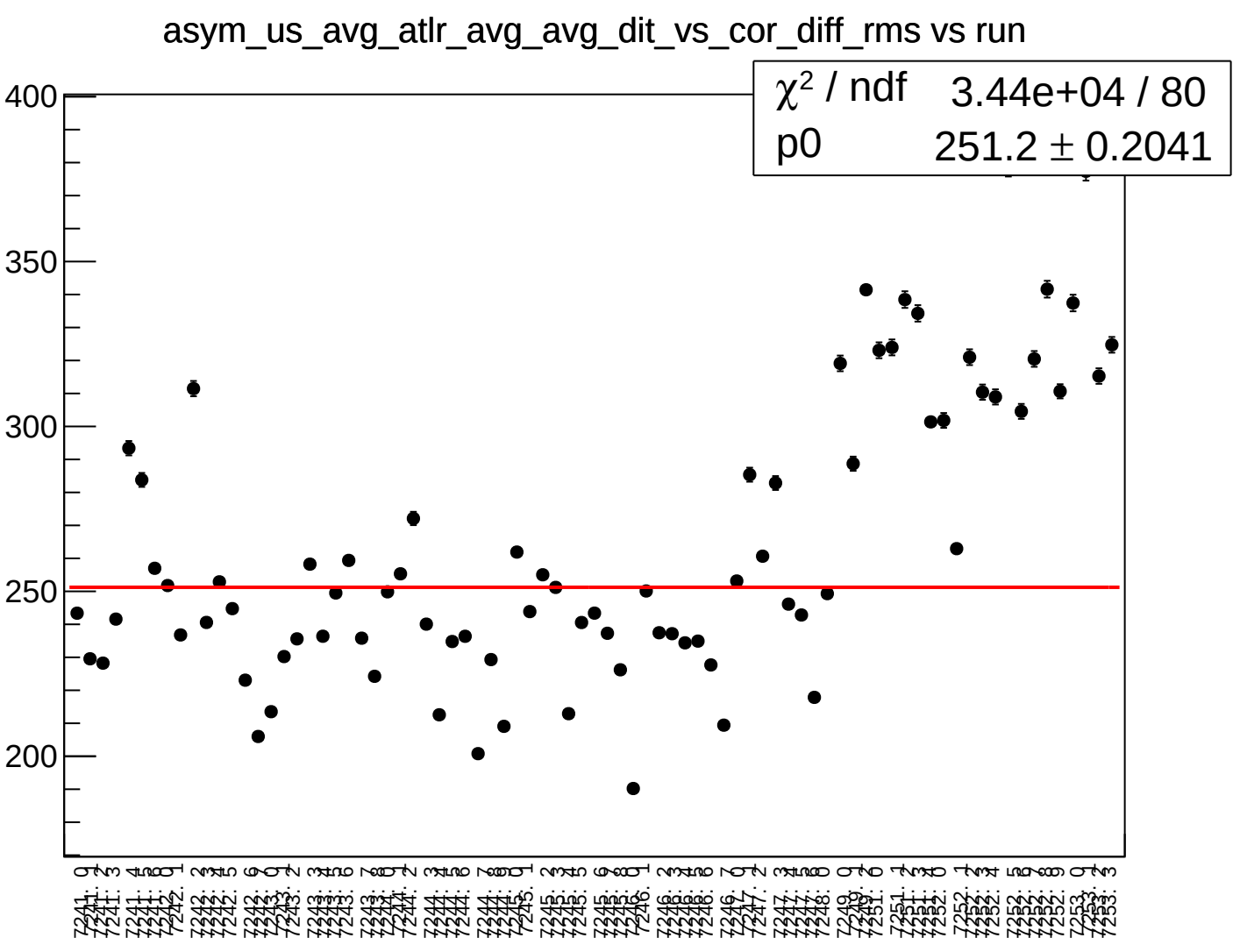

asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 4066 / 80
p0 5874 ± 4.726
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400
5200

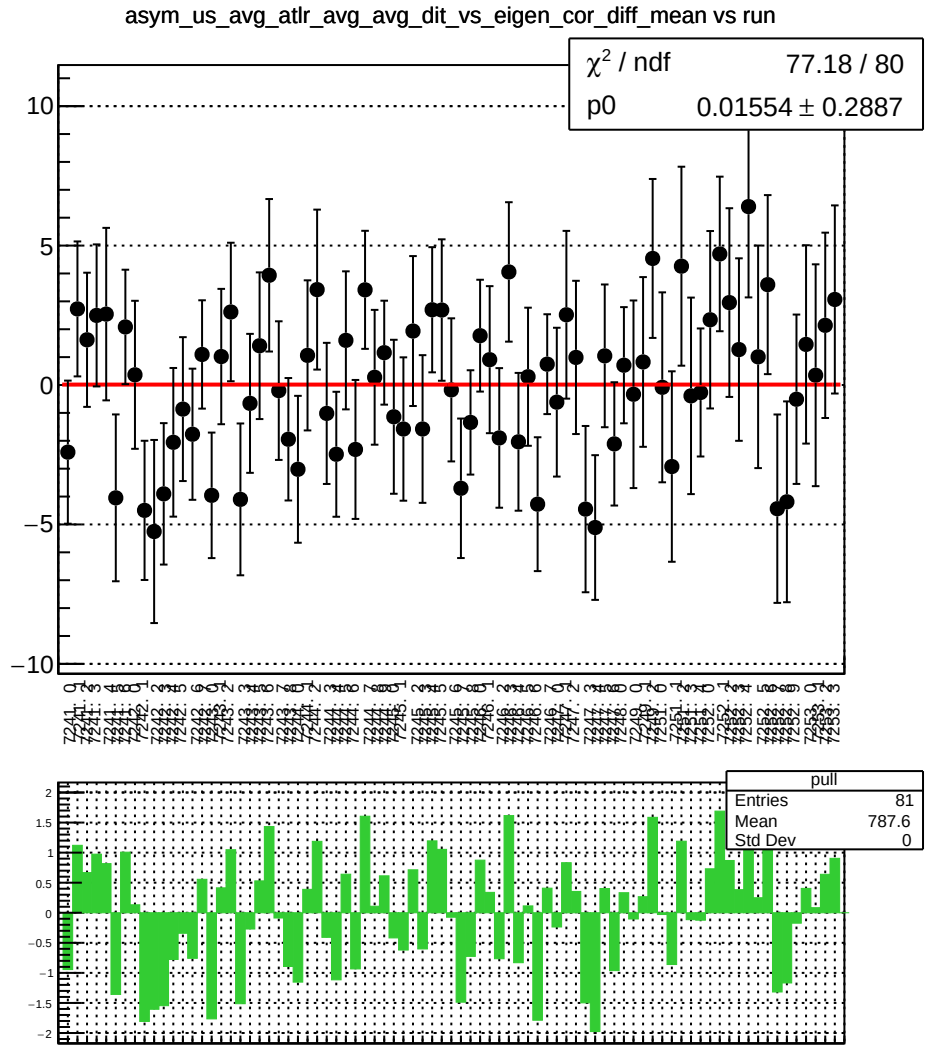

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 100.6 / 80
p0 −1.359e−13 ± 1.813e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 81
Mean 44.89
Std Dev 20.31
2
1
0
−1
−2

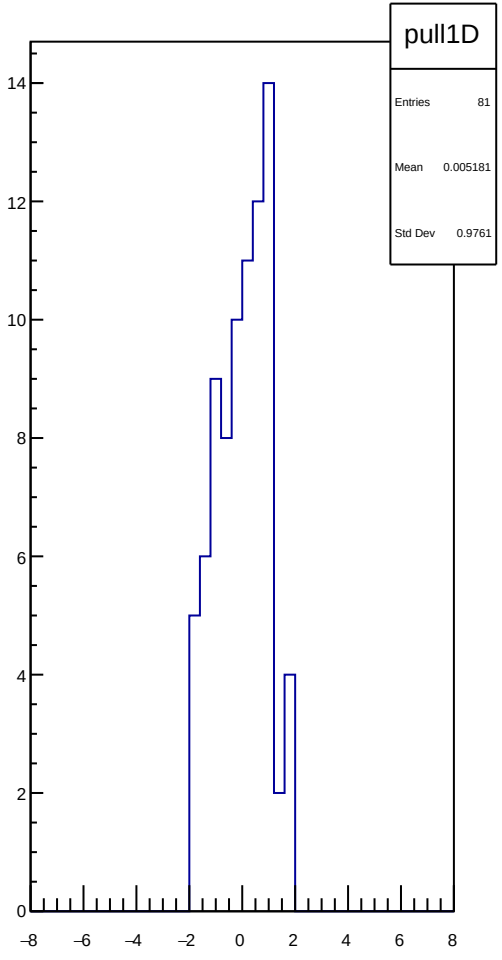

pull1D
Entries 81
Mean −0.1279
Std Dev 1.107
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

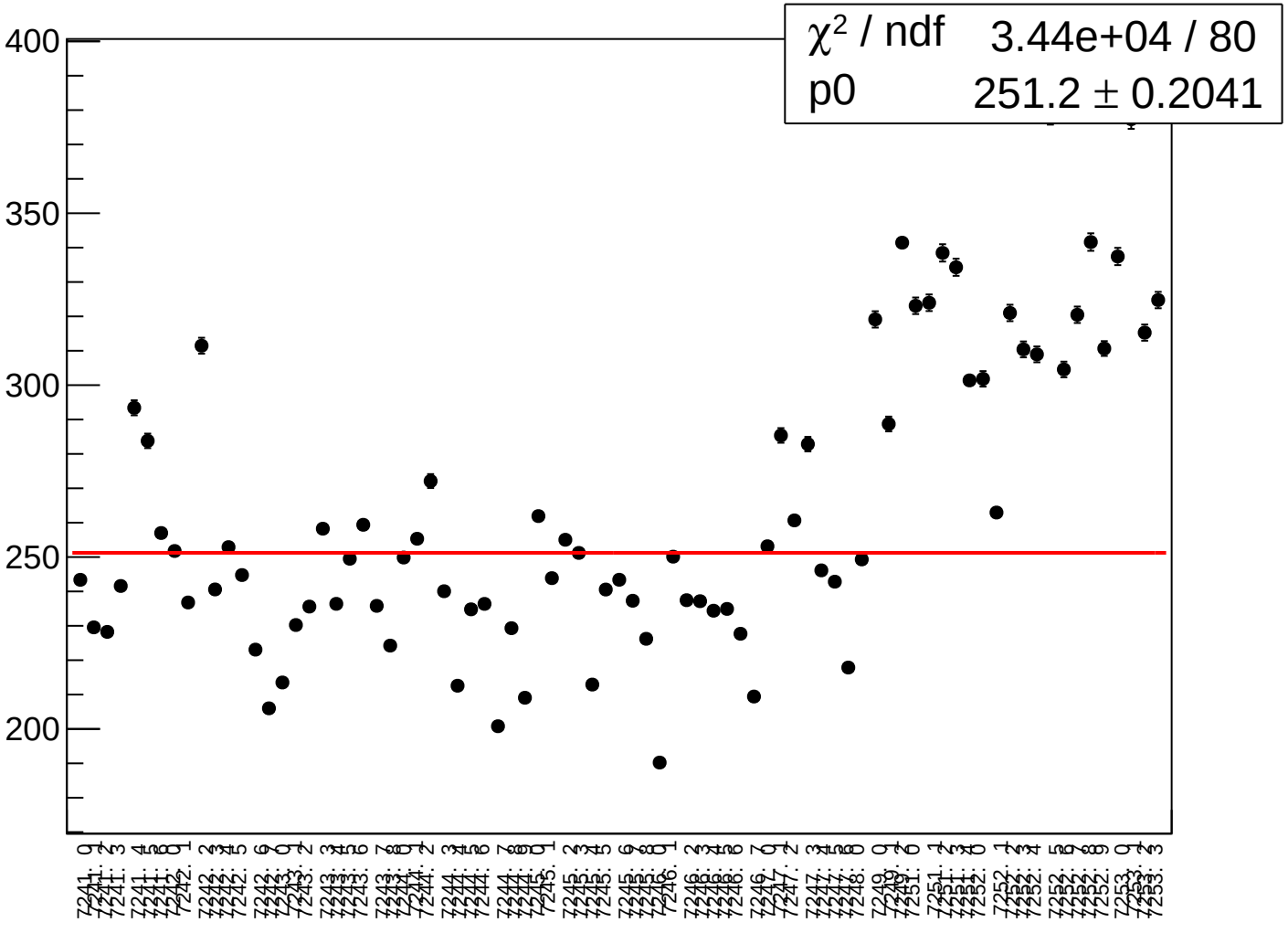

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.33e+05 / 80
p0 1.006e−10 ± 1.282e−13
1.2
1
0.8
0.6
0.4
0.2
0

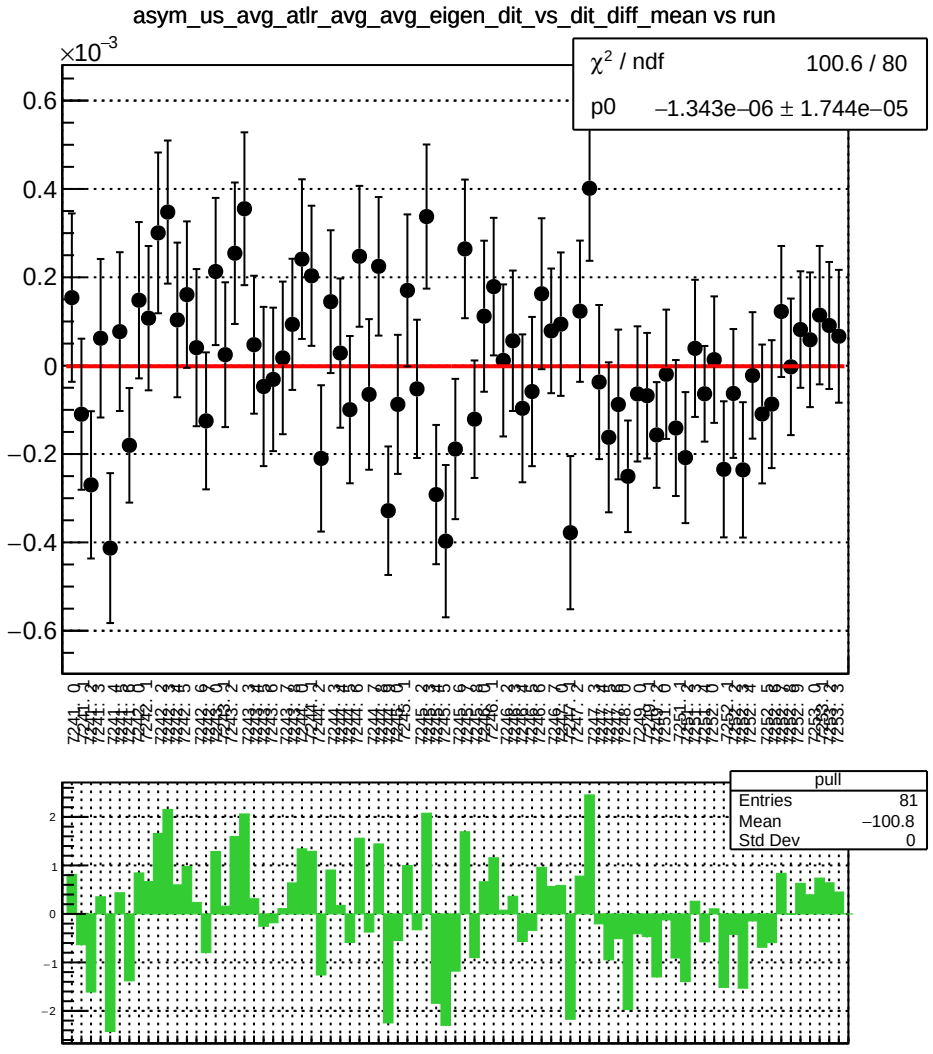

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 77.18 / 80
p0 0.01554 ± 0.2887
pull
Entries 81
Mean 787.6
Std Dev 0
pull1D
Entries 81
Mean 0.005181
Std Dev 0.9761

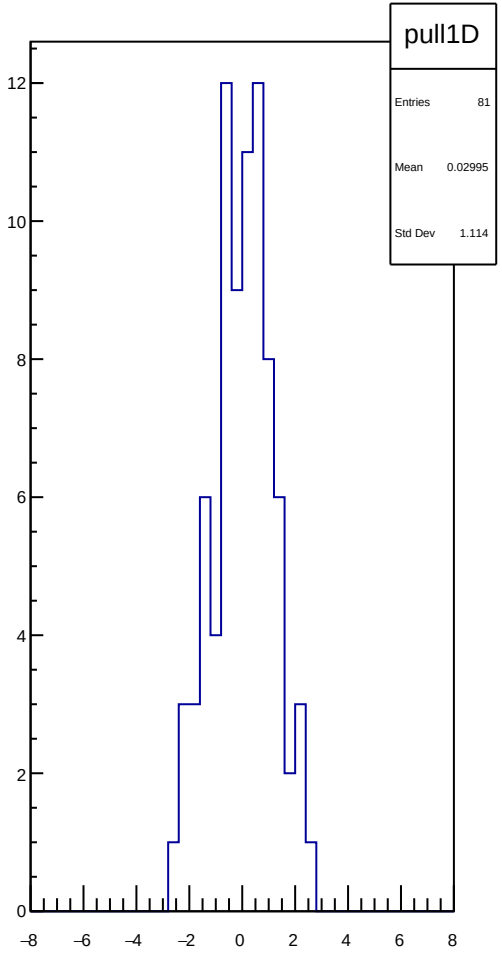

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.44e+04 / 80
p0 251.2 ± 0.2041
400
350
300
250
200

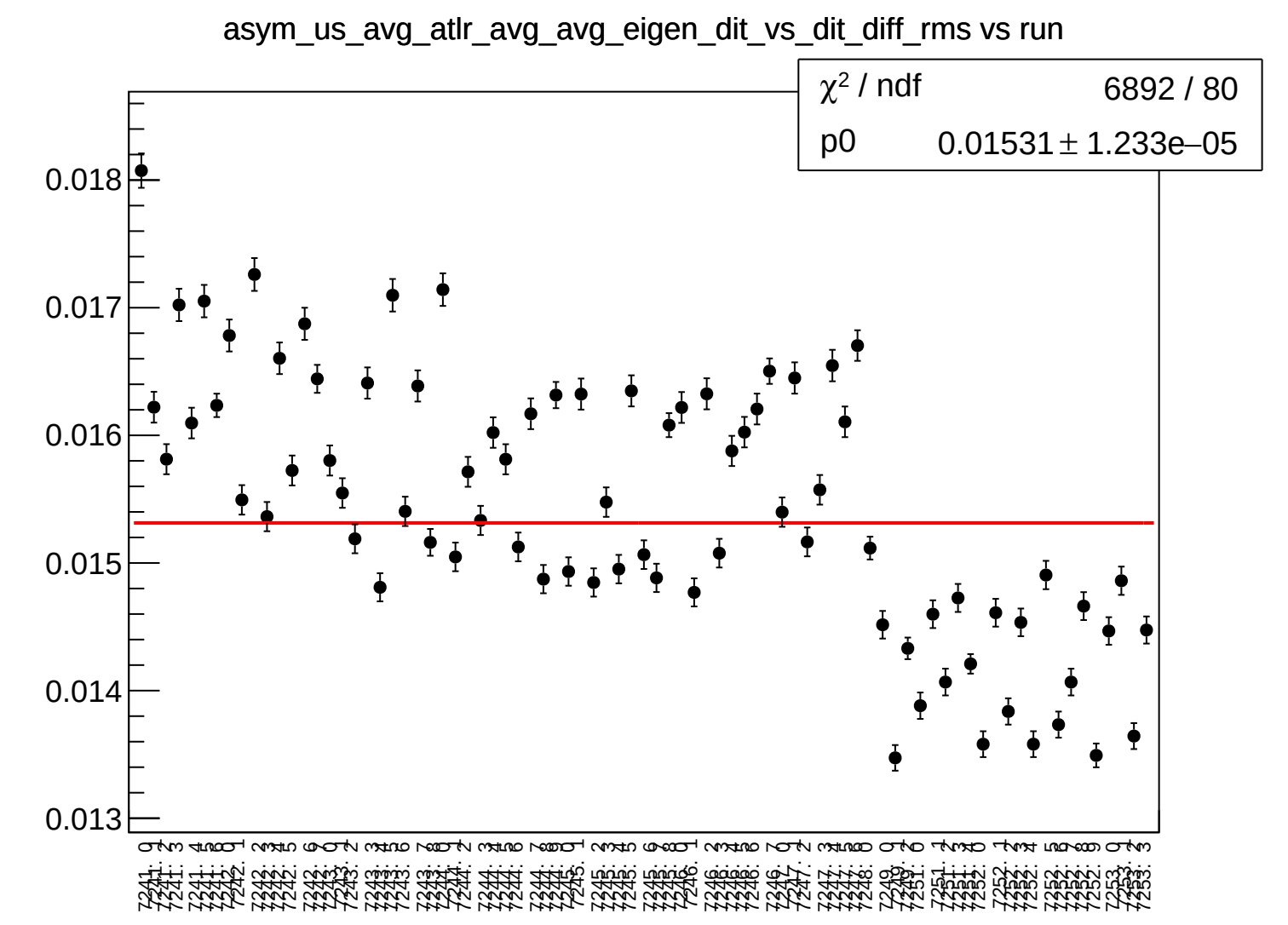

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.18 / 80
p0 0.01554 ± 0.2887
pull
Entries 81
Mean 787.6
Std Dev 0

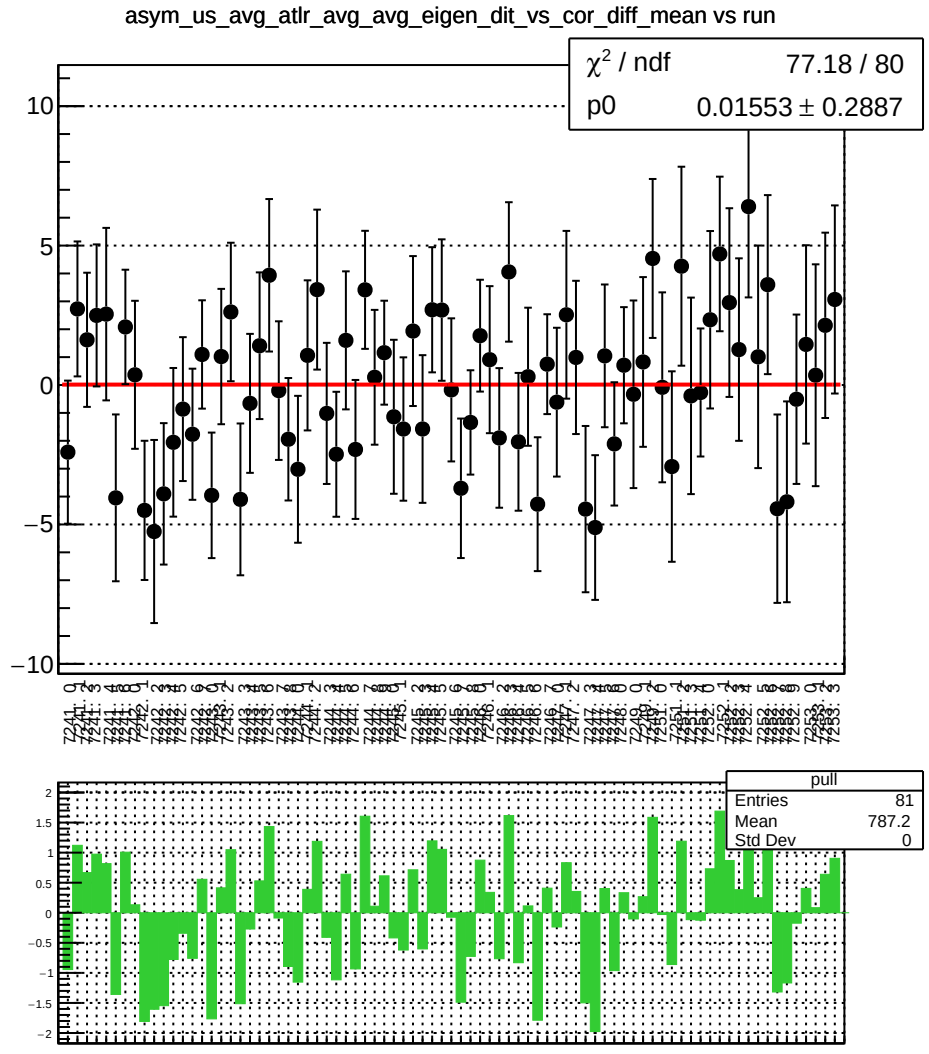

pull1D
Entries 81
Mean 0.005181
Std Dev 0.9761

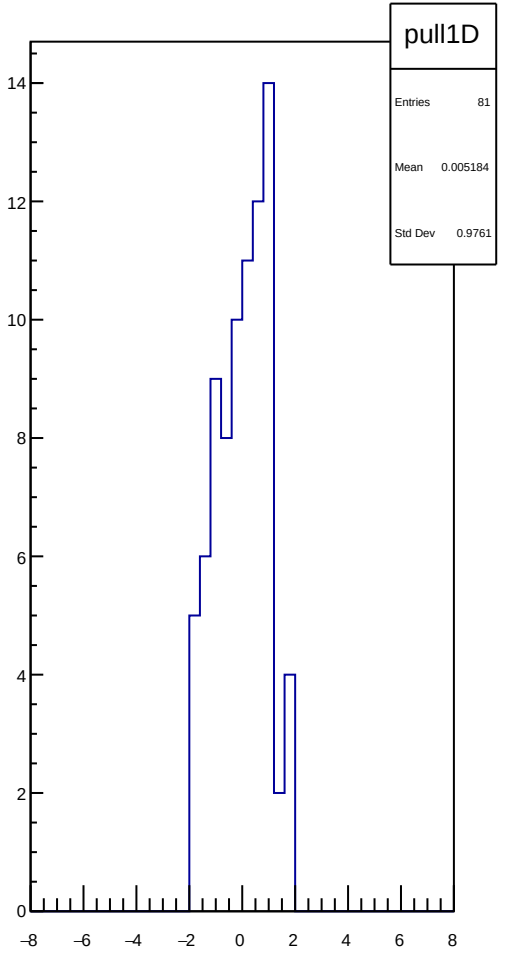

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.44e+04 / 80
p0 251.2 ± 0.2041
400
350
300
250
200

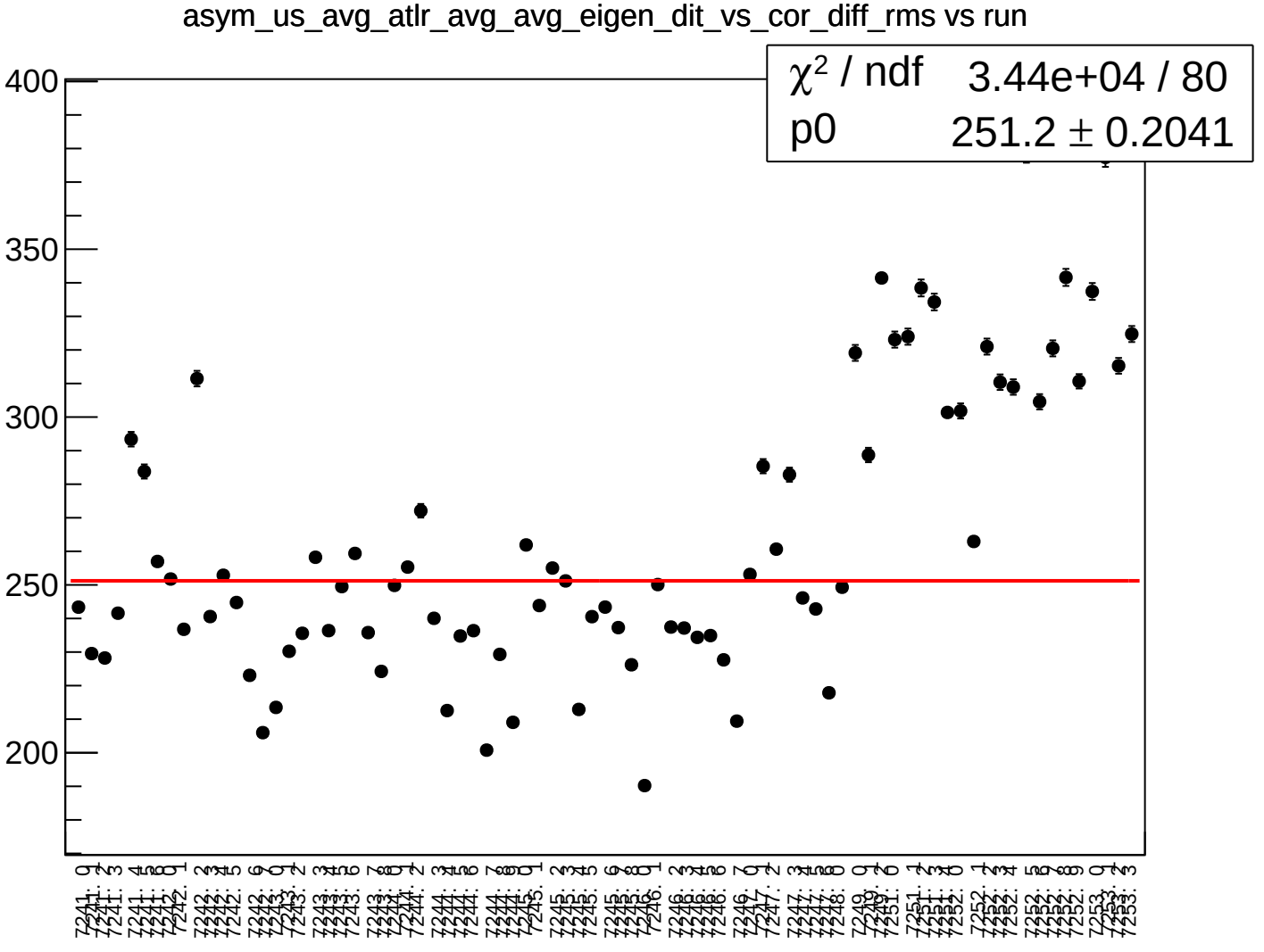

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.6 / 80
p0 −1.343e−06 ± 1.744e−05
pull
Entries 81
Mean −100.8
Std Dev 0

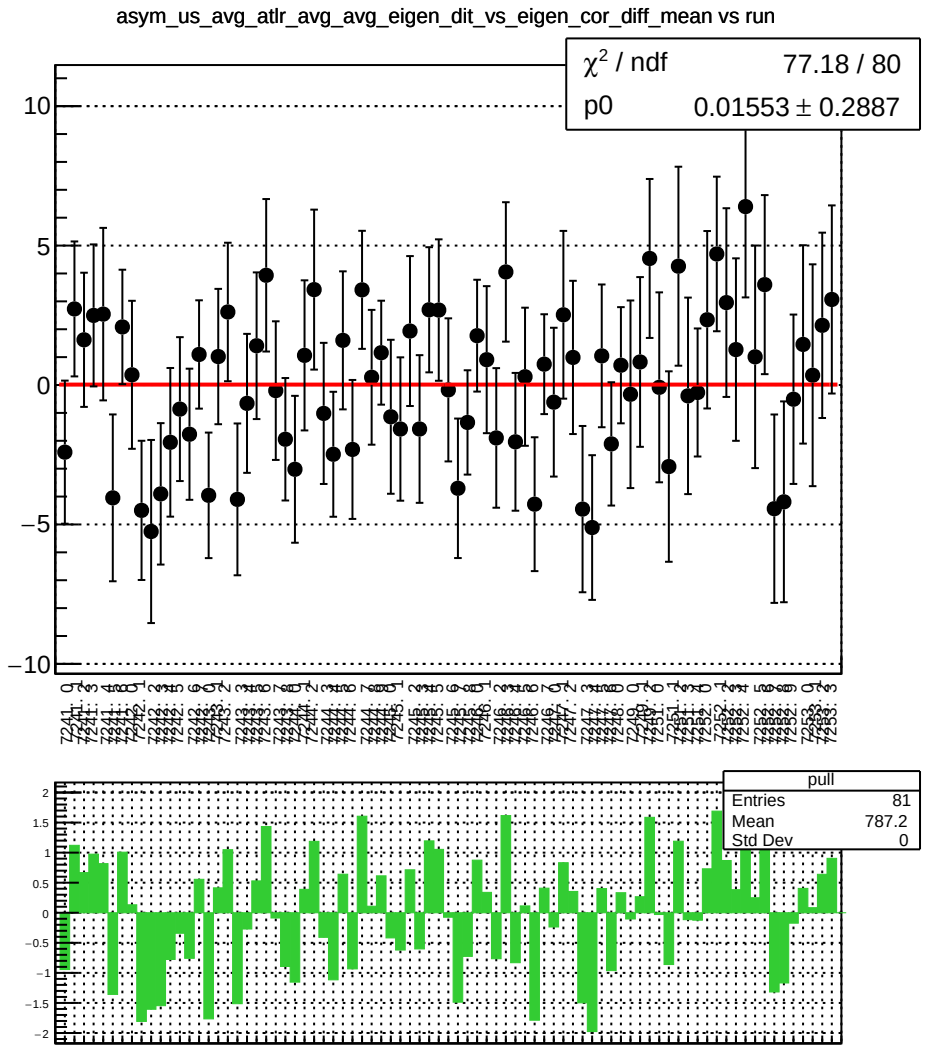

pull1D
Entries 81
Mean 0.02995
Std Dev 1.114

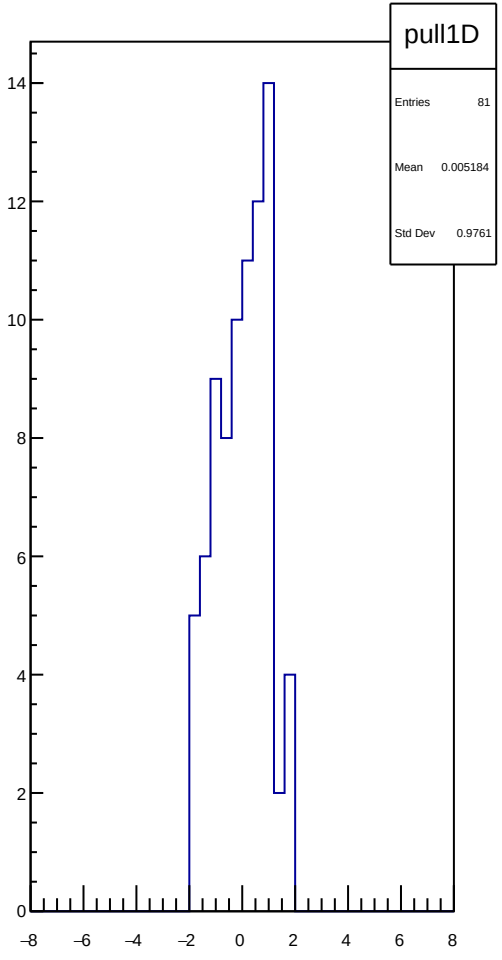

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6892 / 80
p0 0.01531 ± 1.233e−05
0.018
0.017
0.016
0.015
0.014
0.013

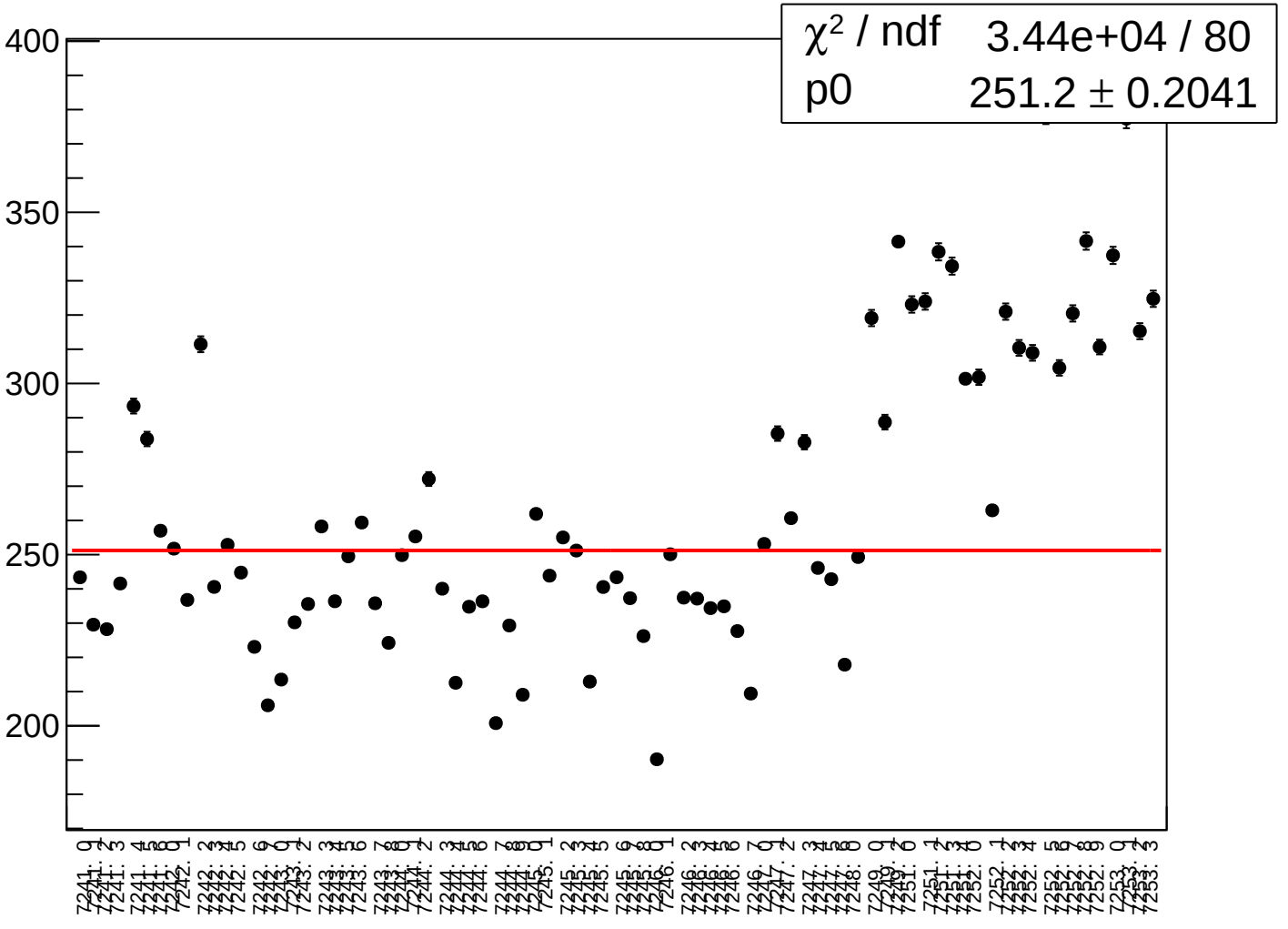

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.18 / 80
p0 0.01553 ± 0.2887
pull
Entries 81
Mean 787.2
Std Dev 0

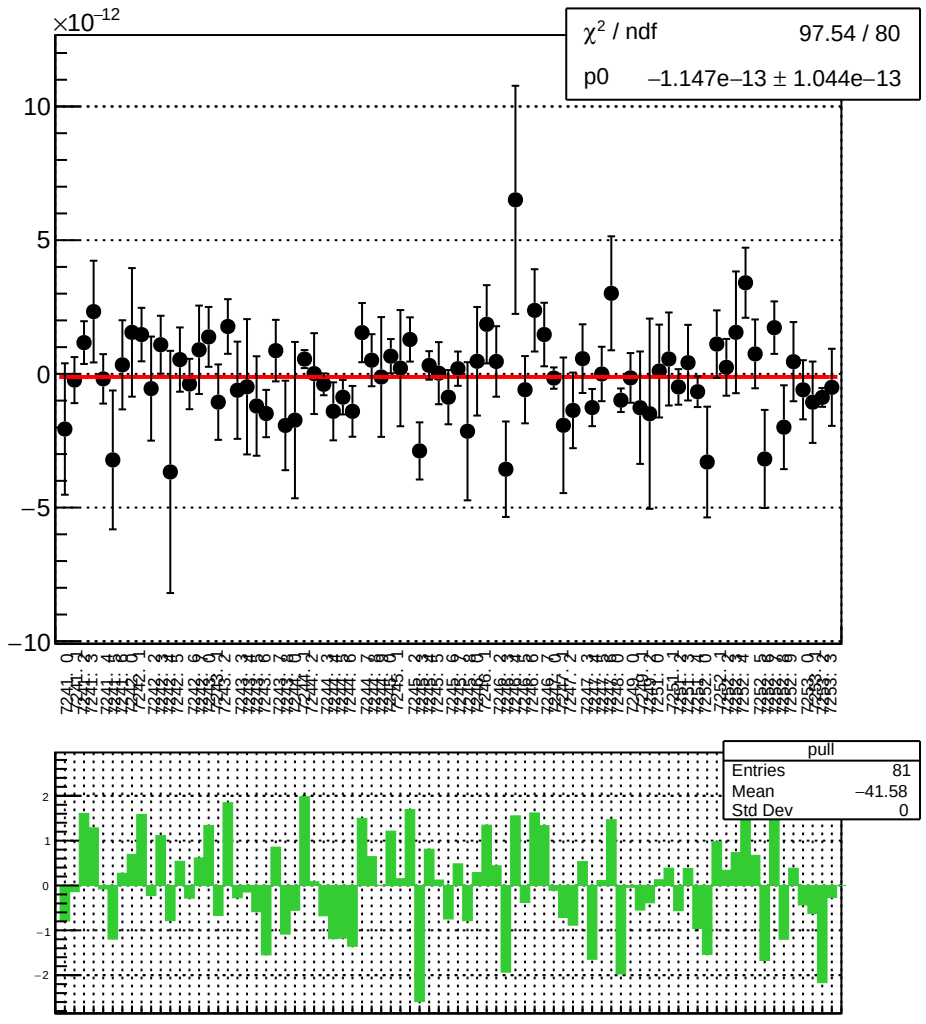

pull1D
Entries 81
Mean 0.005184
Std Dev 0.9761

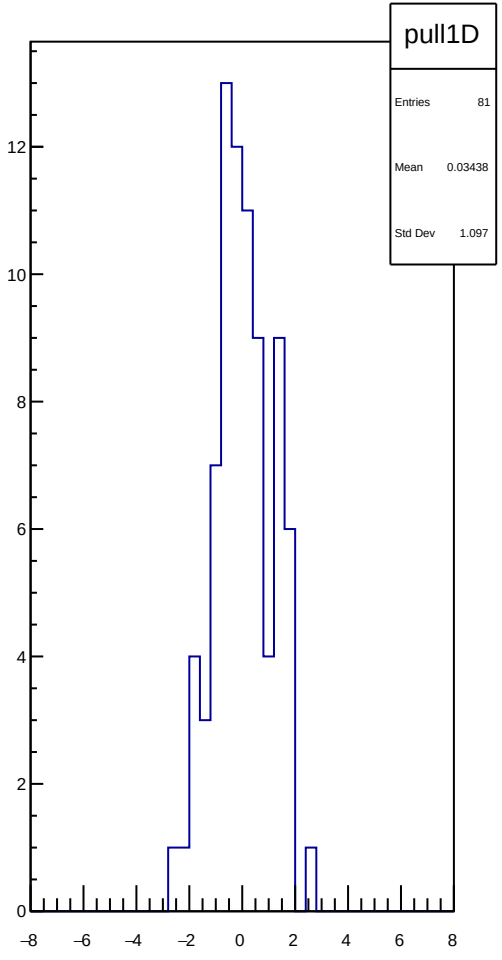

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.44e+04 / 80
p0 251.2 ± 0.2041
400
350
300
250
200

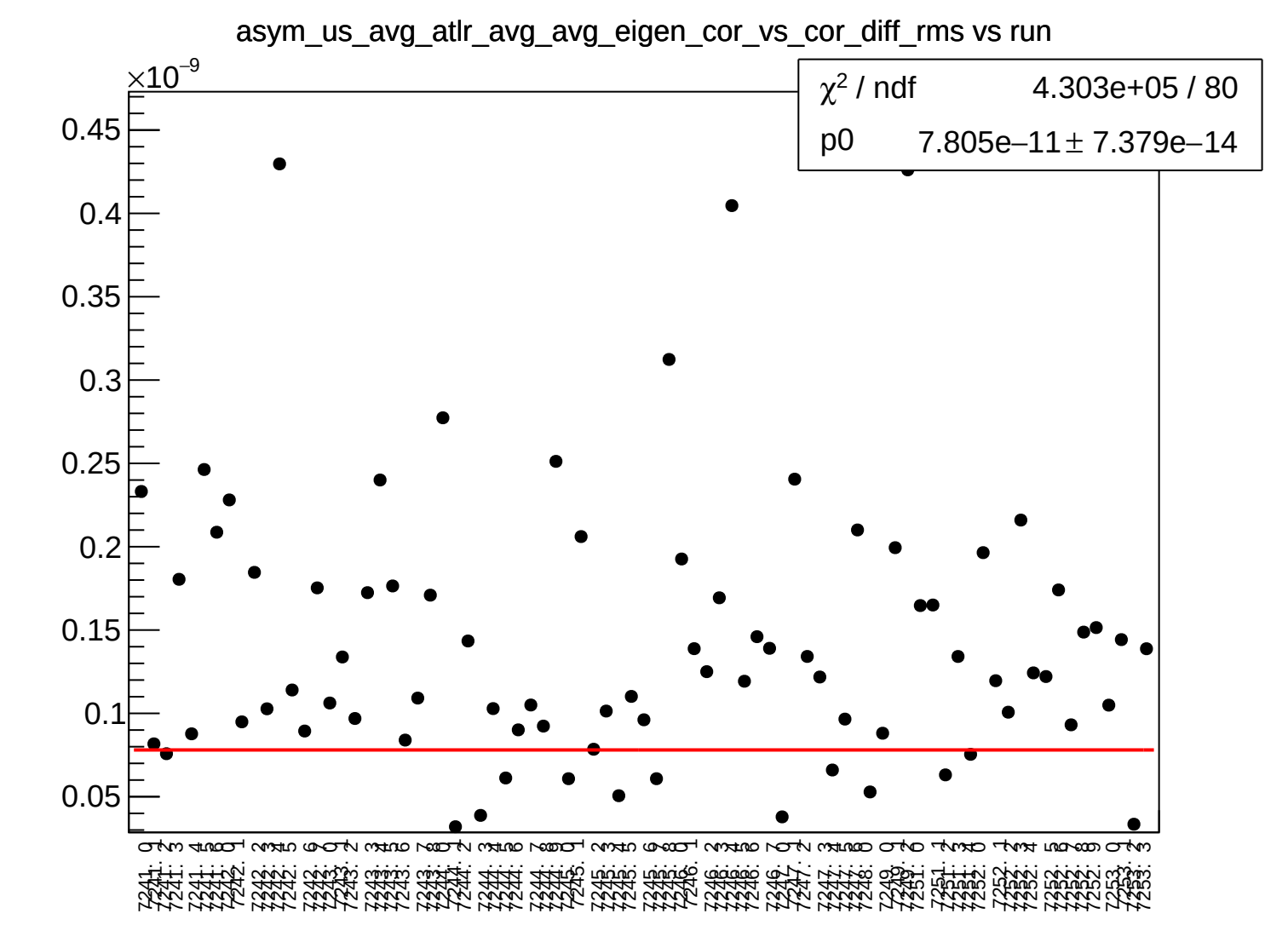

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.18 / 80
p0 0.01553 ± 0.2887
pull
Entries 81
Mean 787.2
Std Dev 0

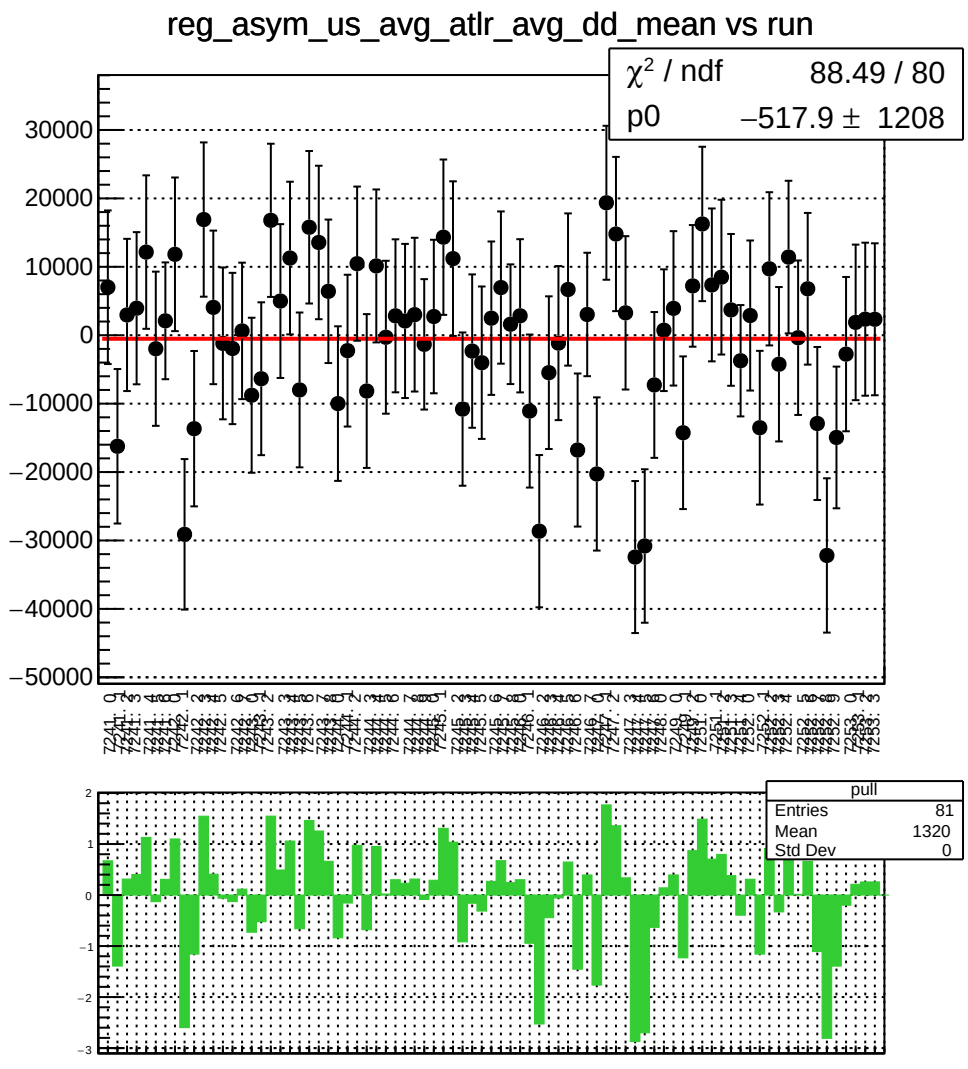

pull1D
Entries 81
Mean 0.005184
Std Dev 0.9761

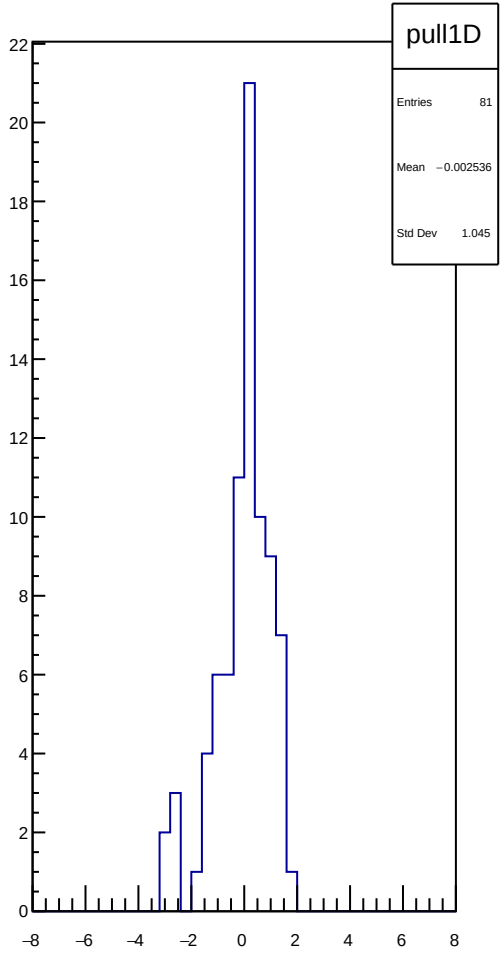

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.44e+04 / 80
p0 251.2 ± 0.2041
400
350
300
250
200

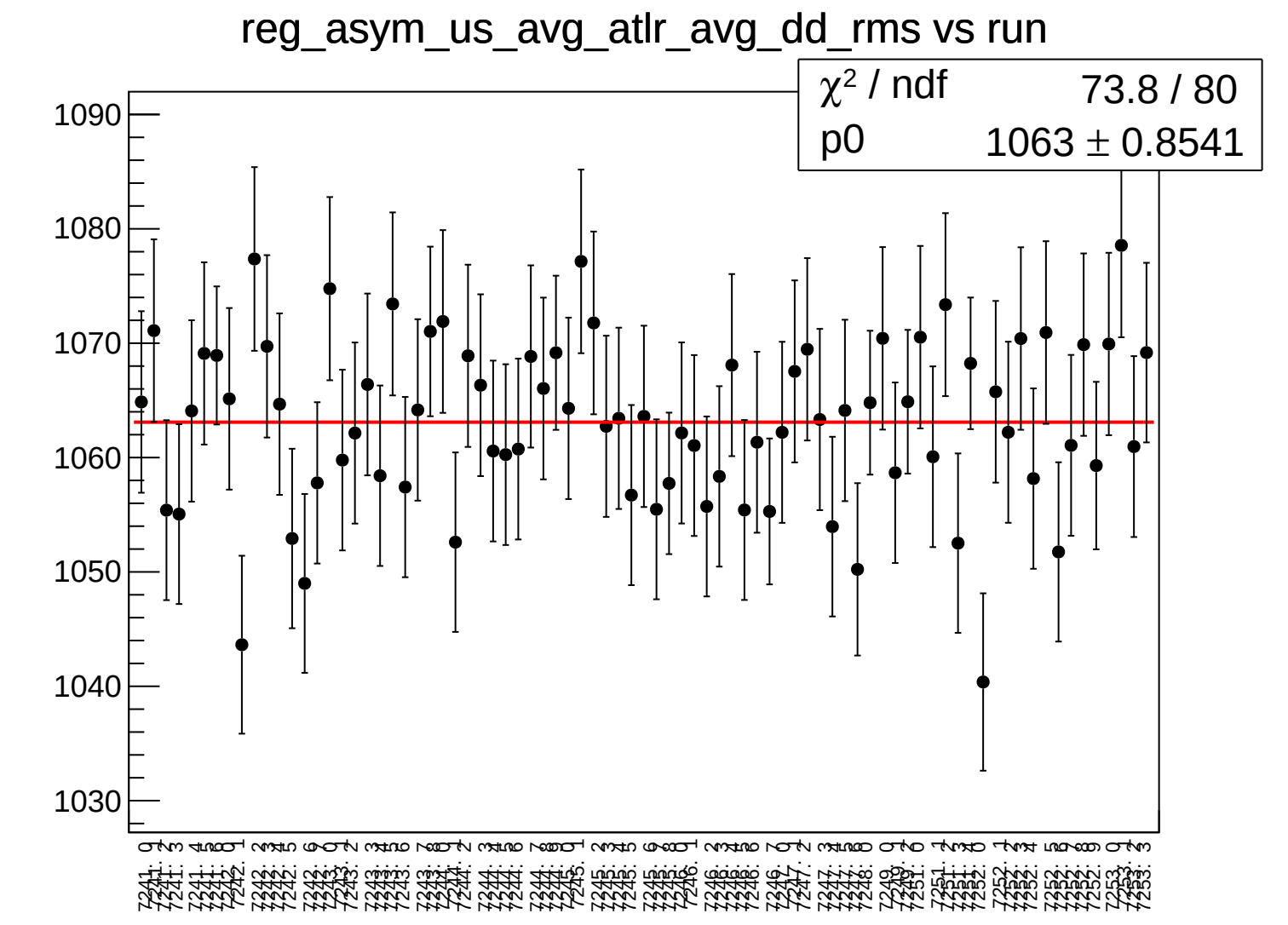

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.54 / 80
p0 −1.147e−13 ± 1.044e−13
pull
Entries 81
Mean −41.58
Std Dev 0

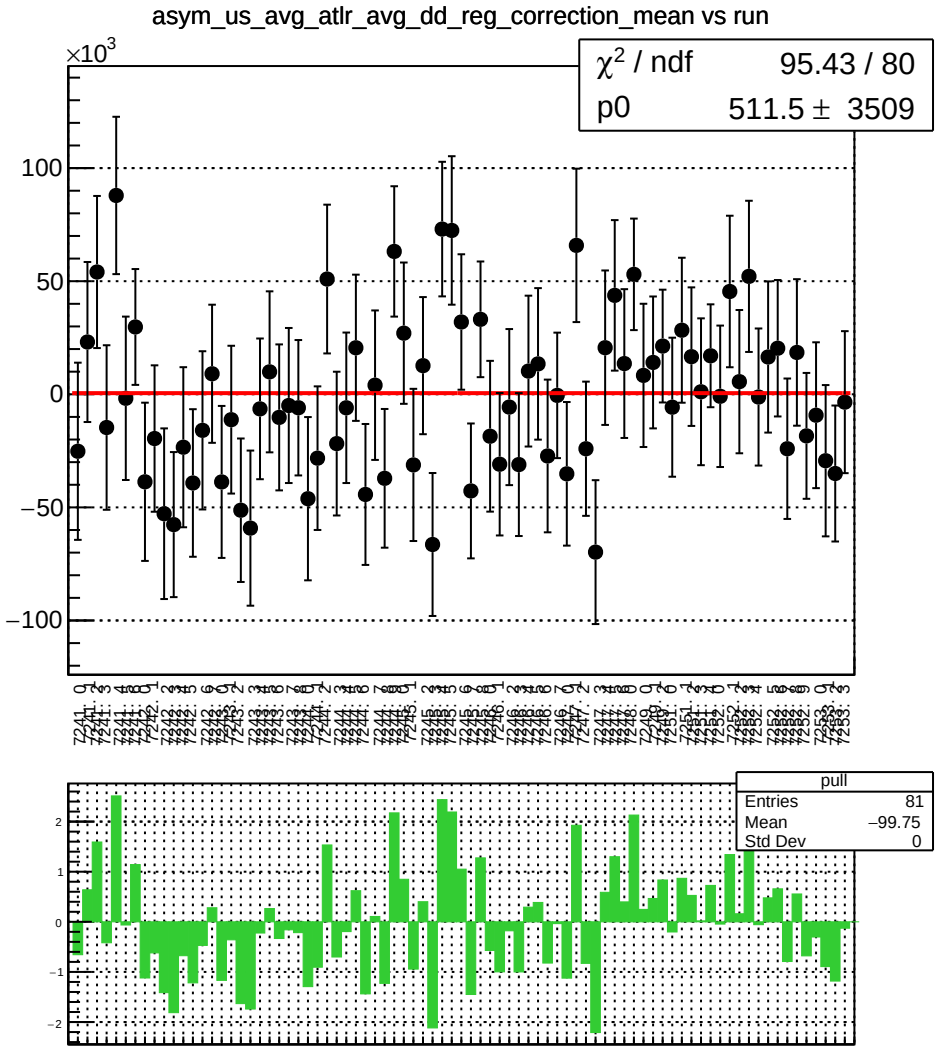

pull1D
Entries 81
Mean 0.03438
Std Dev 1.097

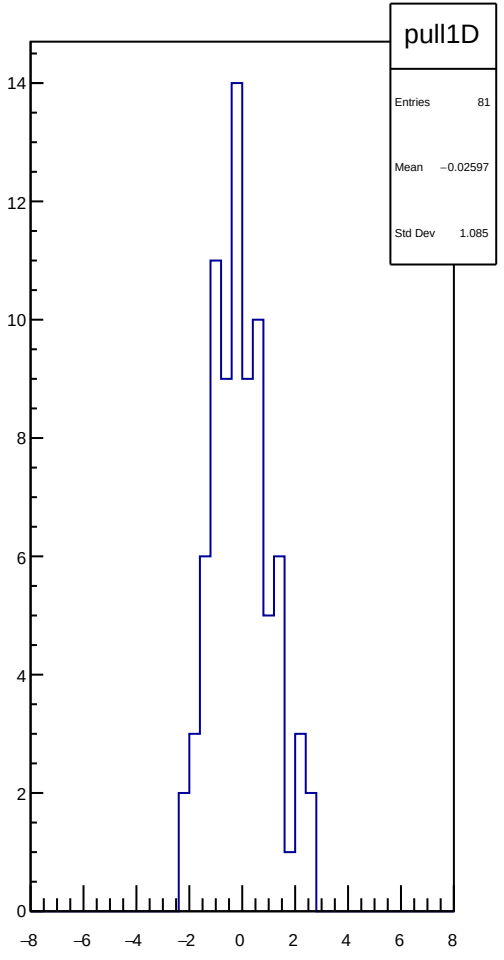

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.303e+05 / 80
p0 7.805e−11 ± 7.379e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

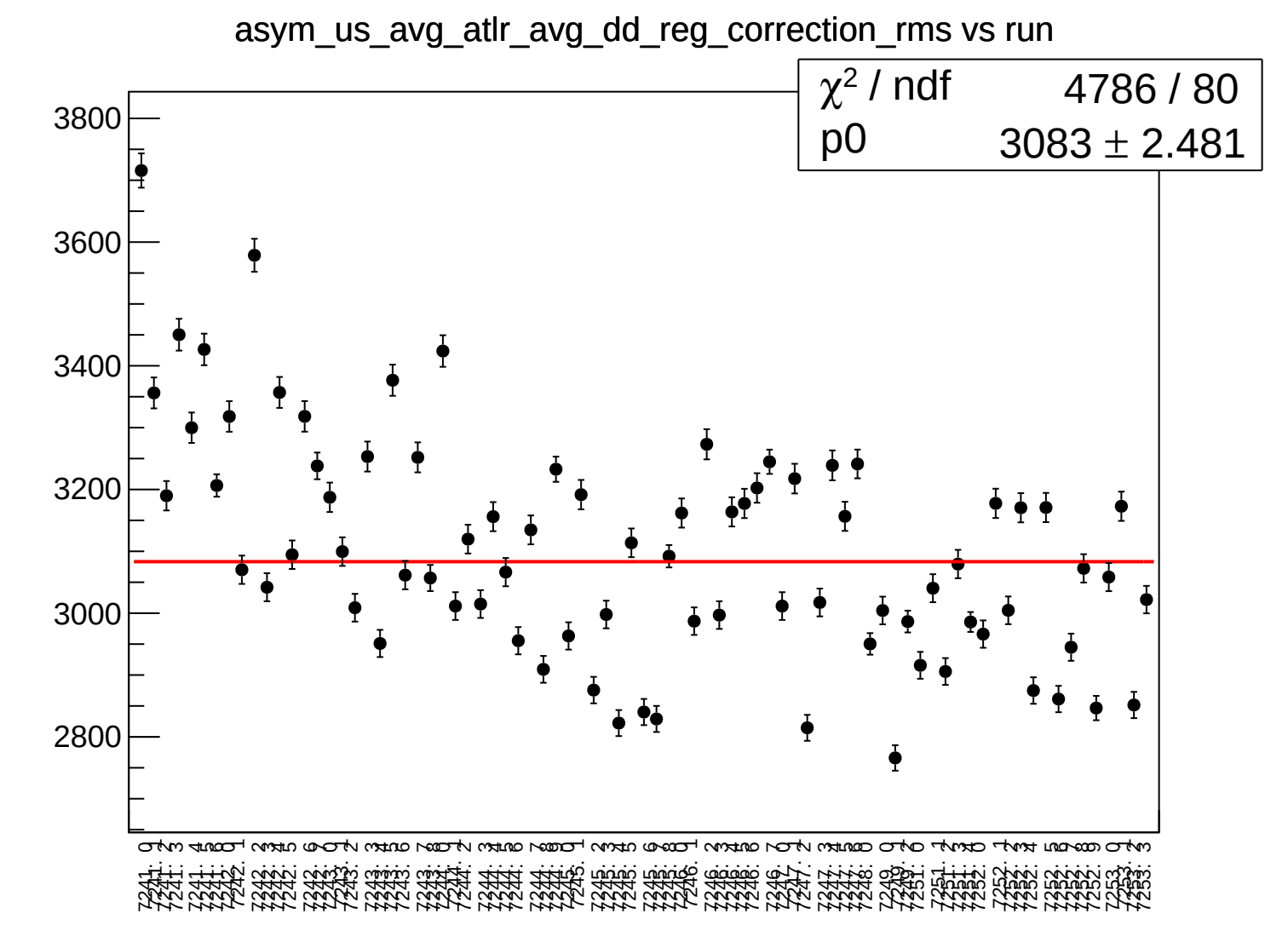

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 88.49 / 80
p0 −517.9 ± 1208
pull
Entries 81
Mean 1320
Std Dev 0

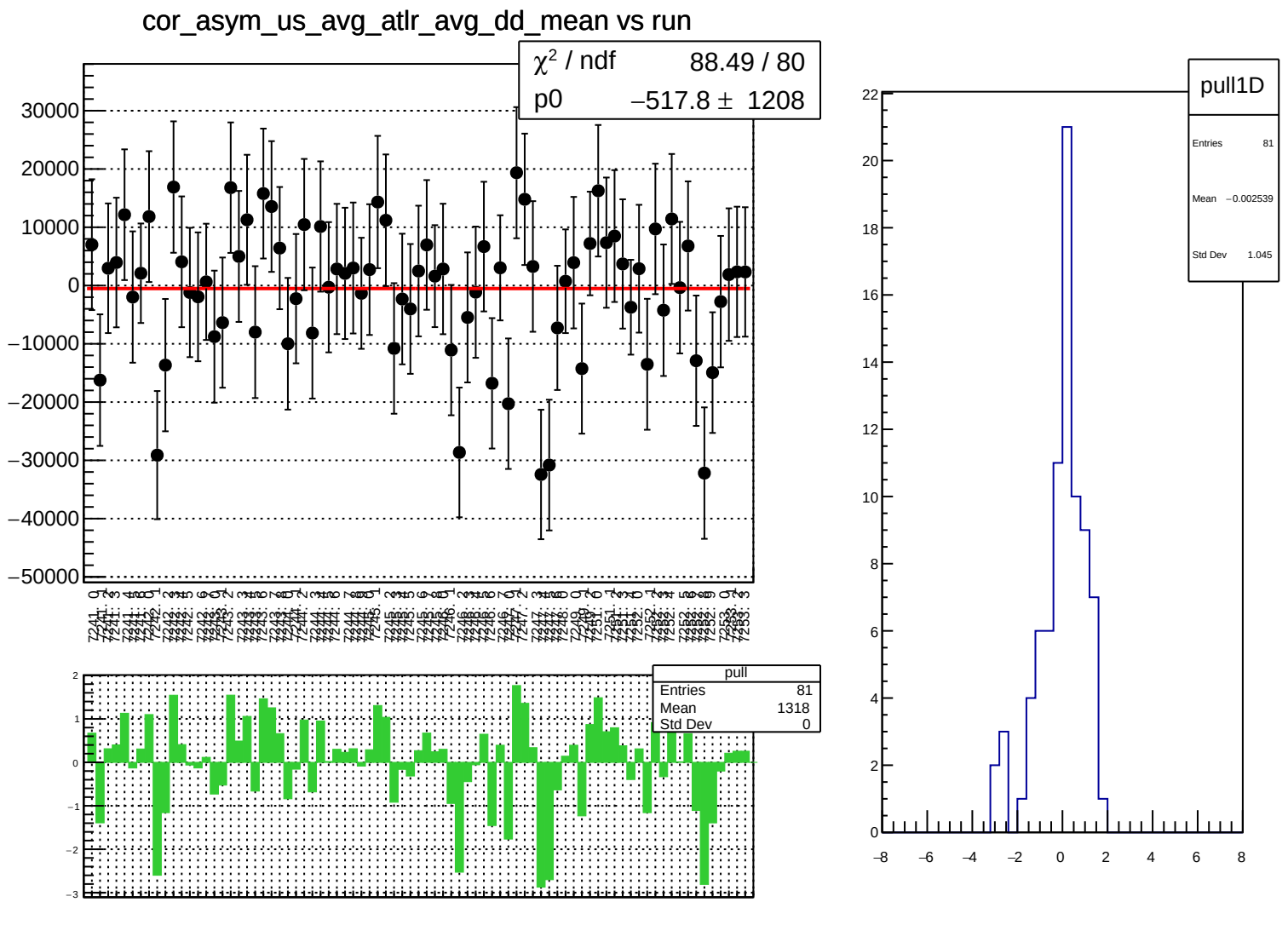

pull1D
Entries 81
Mean −0.002536
Std Dev 1.045

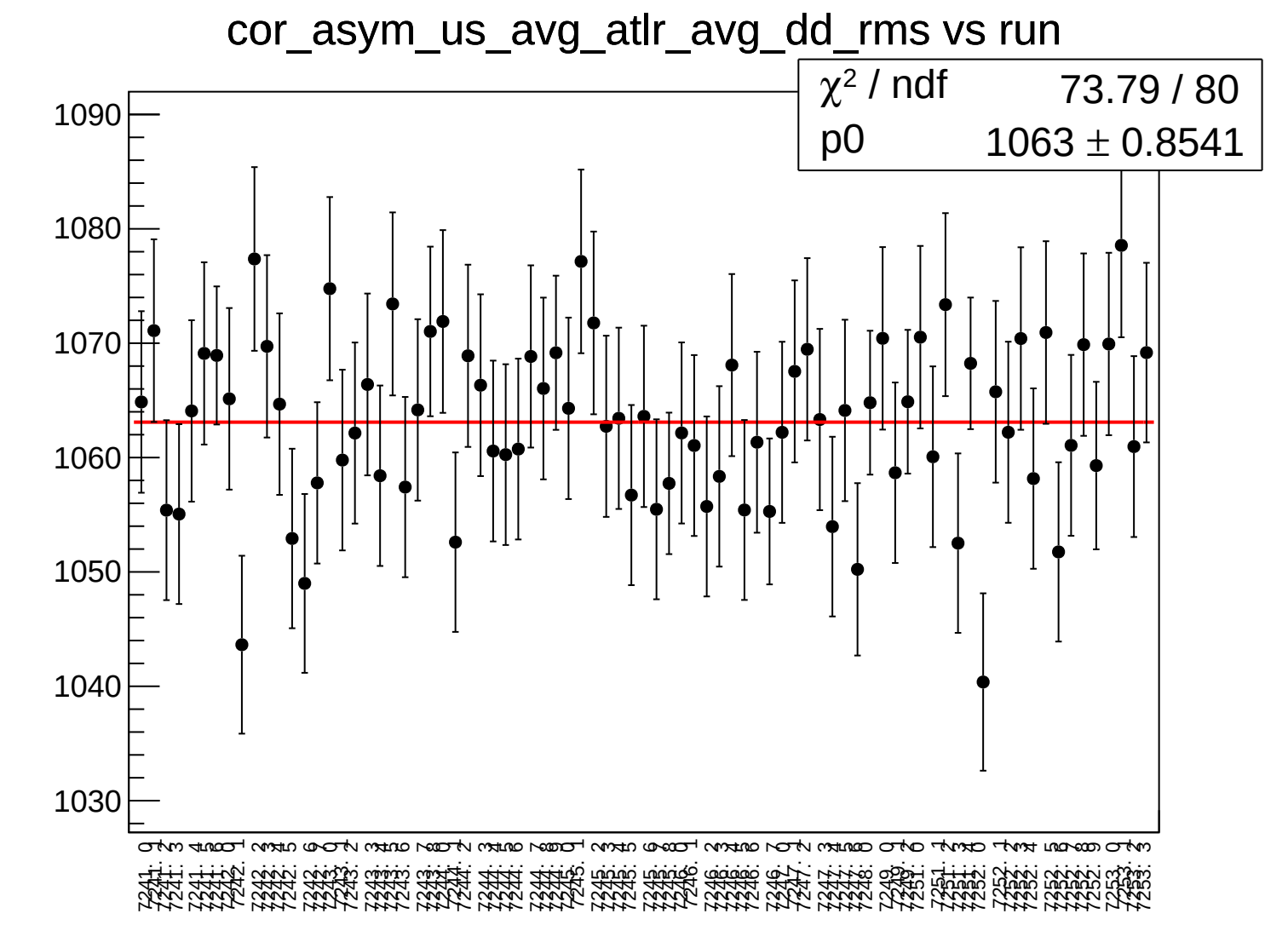

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 73.8 / 80
p0 1063 ± 0.8541
1090
1080
1070
1060
1050
1040
1030

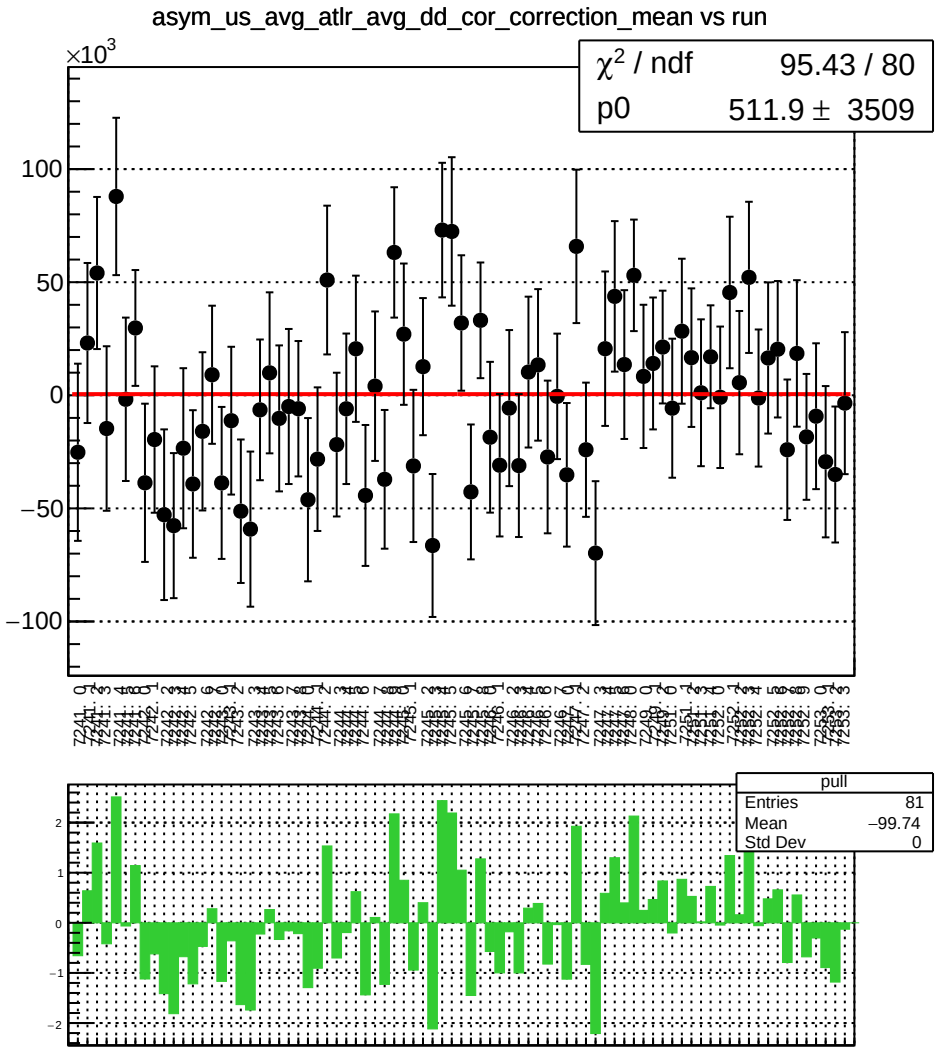

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 95.43 / 80
p0 511.5 ± 3509
100
50
0
−50
−100
pull
Entries 81
Mean −99.75
Std Dev 0
2
1
0
−1
−2

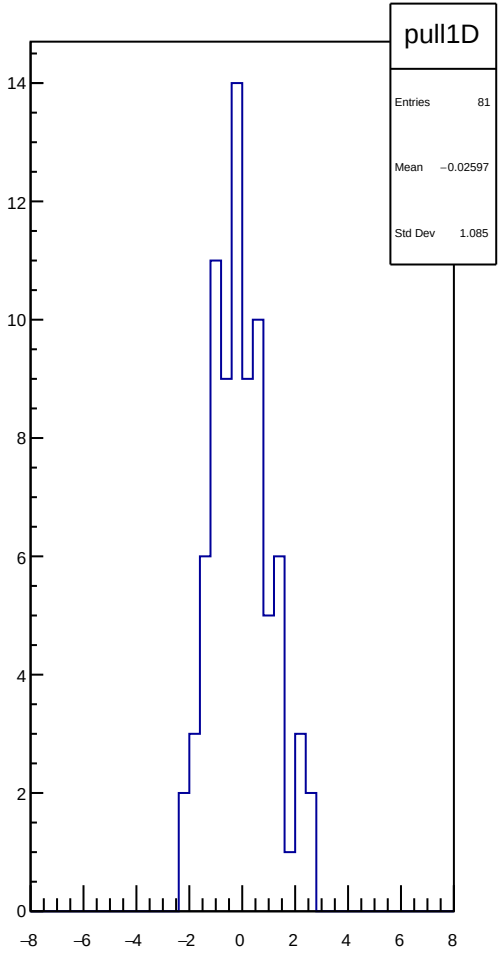

pull1D
Entries 81
Mean −0.02597
Std Dev 1.085
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

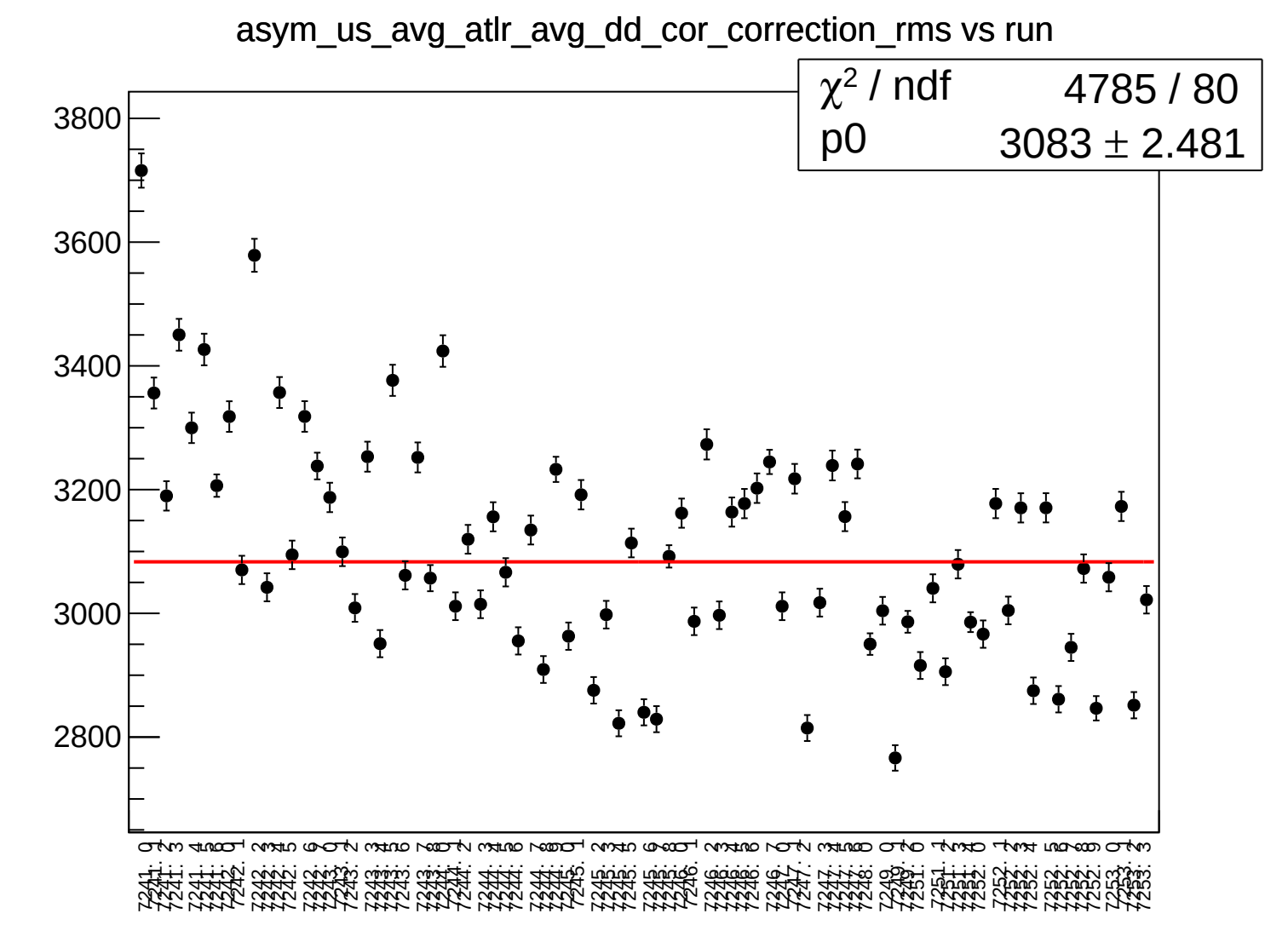

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 4786 / 80
p0 3083 ± 2.481
3800
3600
3400
3200
3000
2800

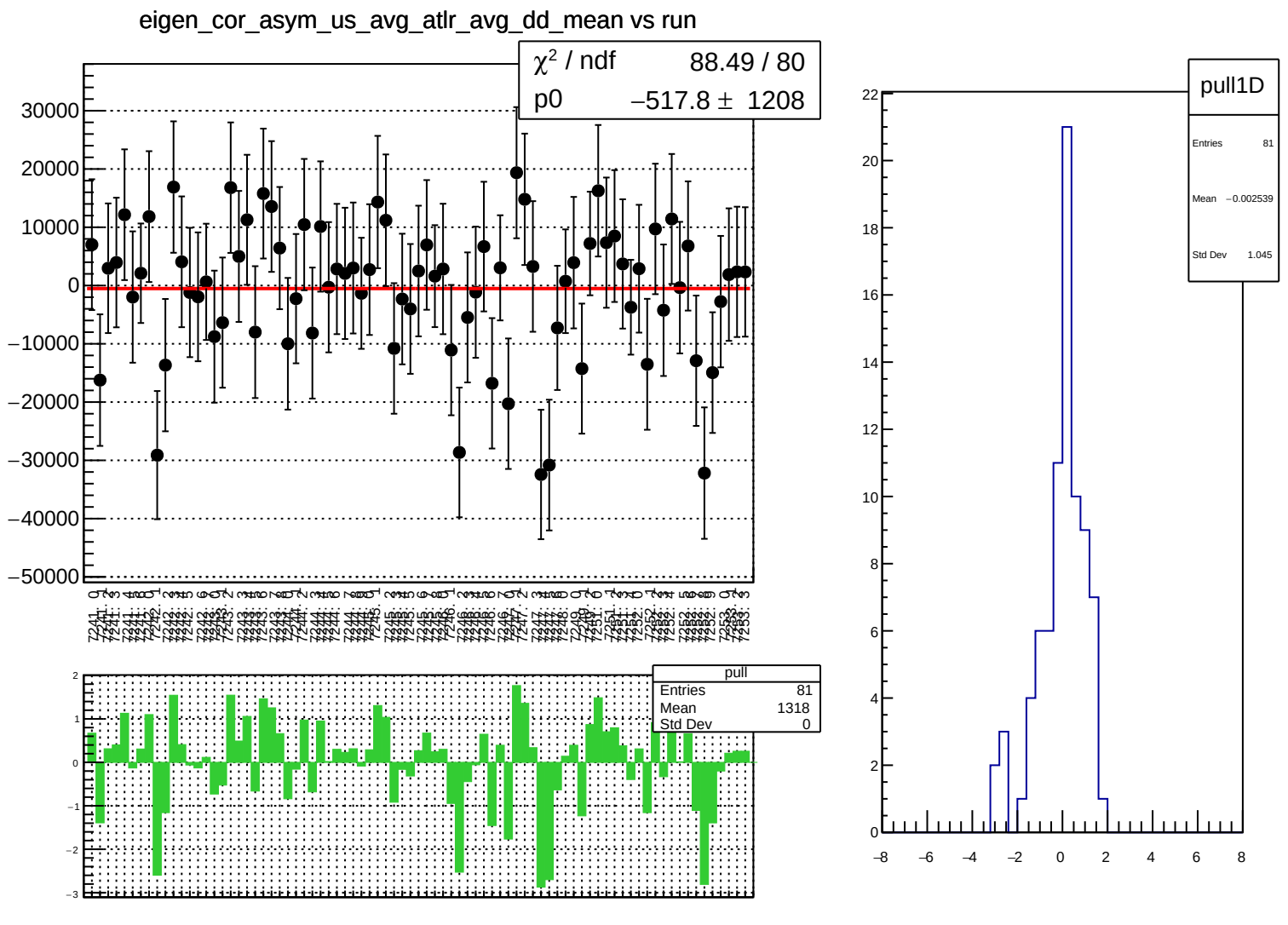

cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 88.49 / 80
p0 −517.8 ± 1208
pull
Entries 81
Mean 1318
Std Dev 0
pull1D
Entries 81
Mean −0.002539
Std Dev 1.045

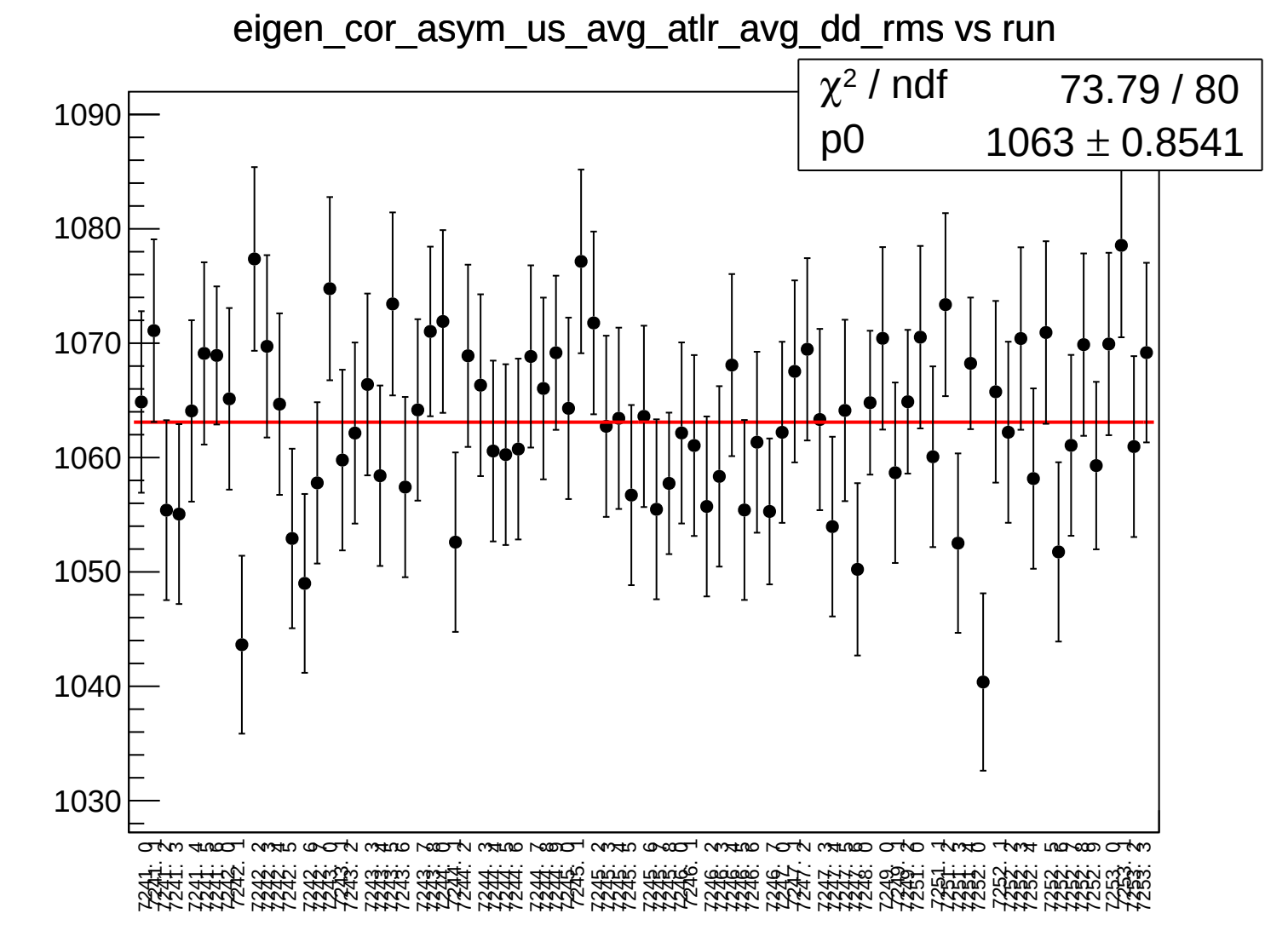

cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 73.79 / 80
p0 1063 ± 0.8541
1090
1080
1070
1060
1050
1040
1030

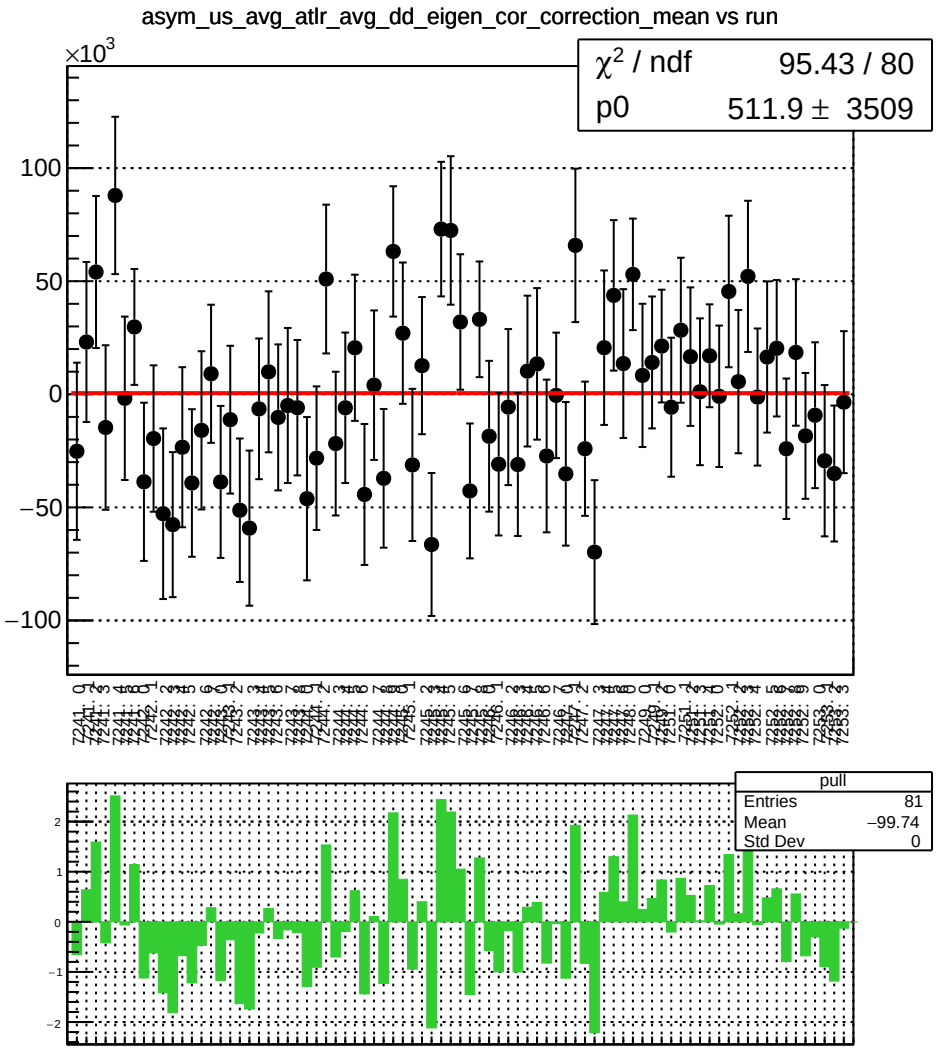

asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 95.43 / 80
p0 511.9 ± 3509
100
50
0
−50
−100
pull
Entries 81
Mean −99.74
Std Dev 0
2
1
0
−1
−2

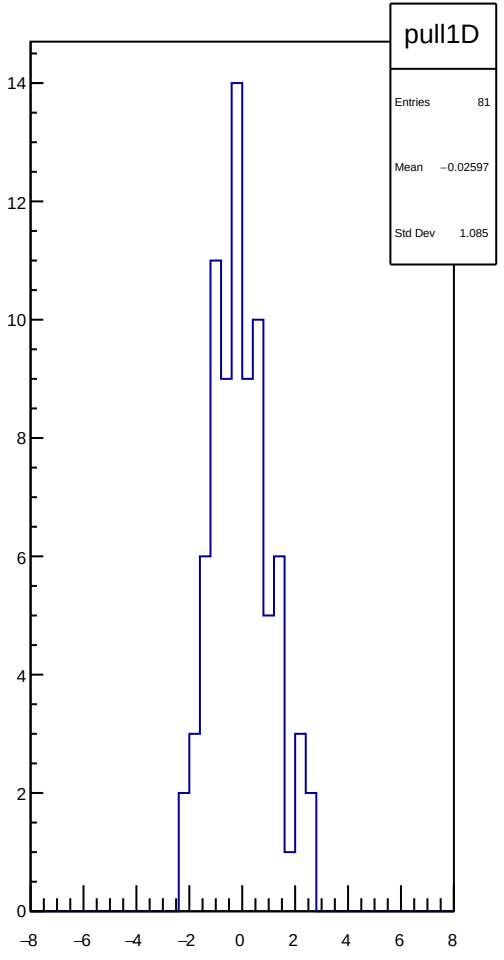

pull1D
Entries 81
Mean −0.02597
Std Dev 1.085
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

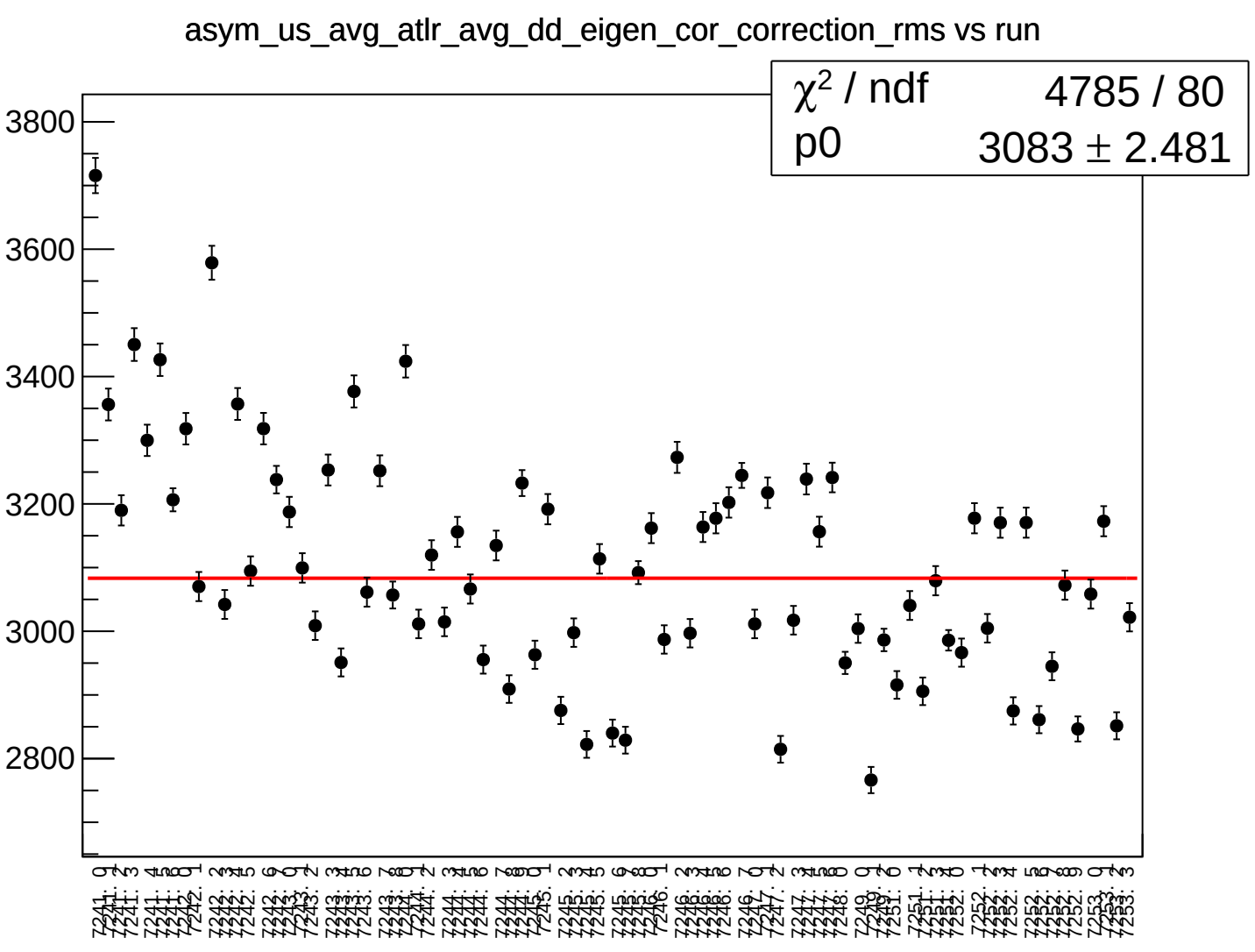

asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 4785 / 80
p0 3083 ± 2.481
3800
3600
3400
3200
3000
2800

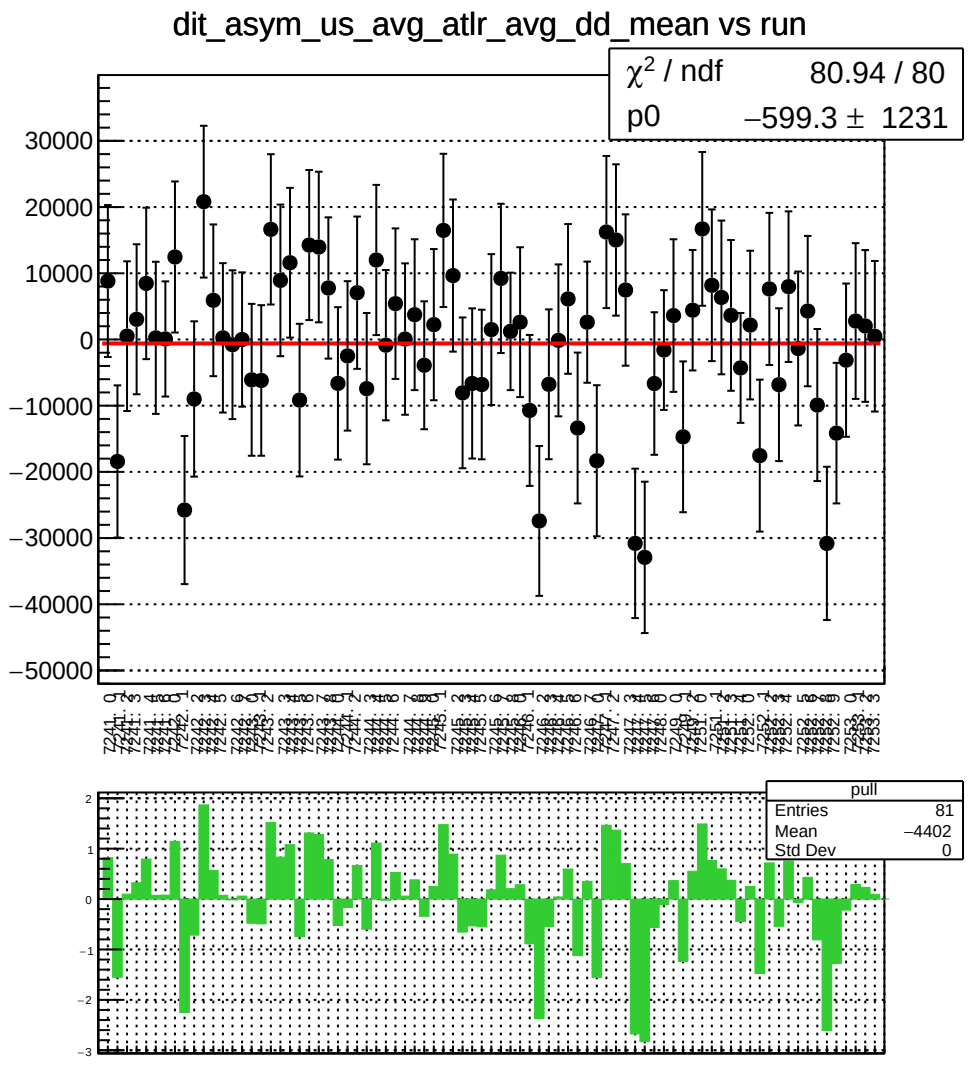

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 88.49 / 80
p0 −517.8 ± 1208
pull
Entries 81
Mean 1318
Std Dev 0
pull1D
Entries 81
Mean −0.002539
Std Dev 1.045

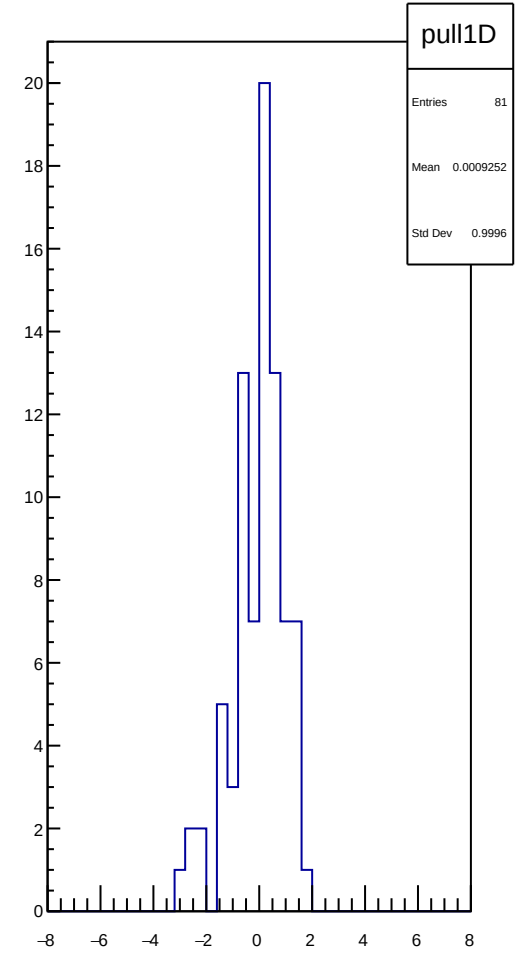

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 73.79 / 80
p0 1063 ± 0.8541
1090
1080
1070
1060
1050
1040
1030

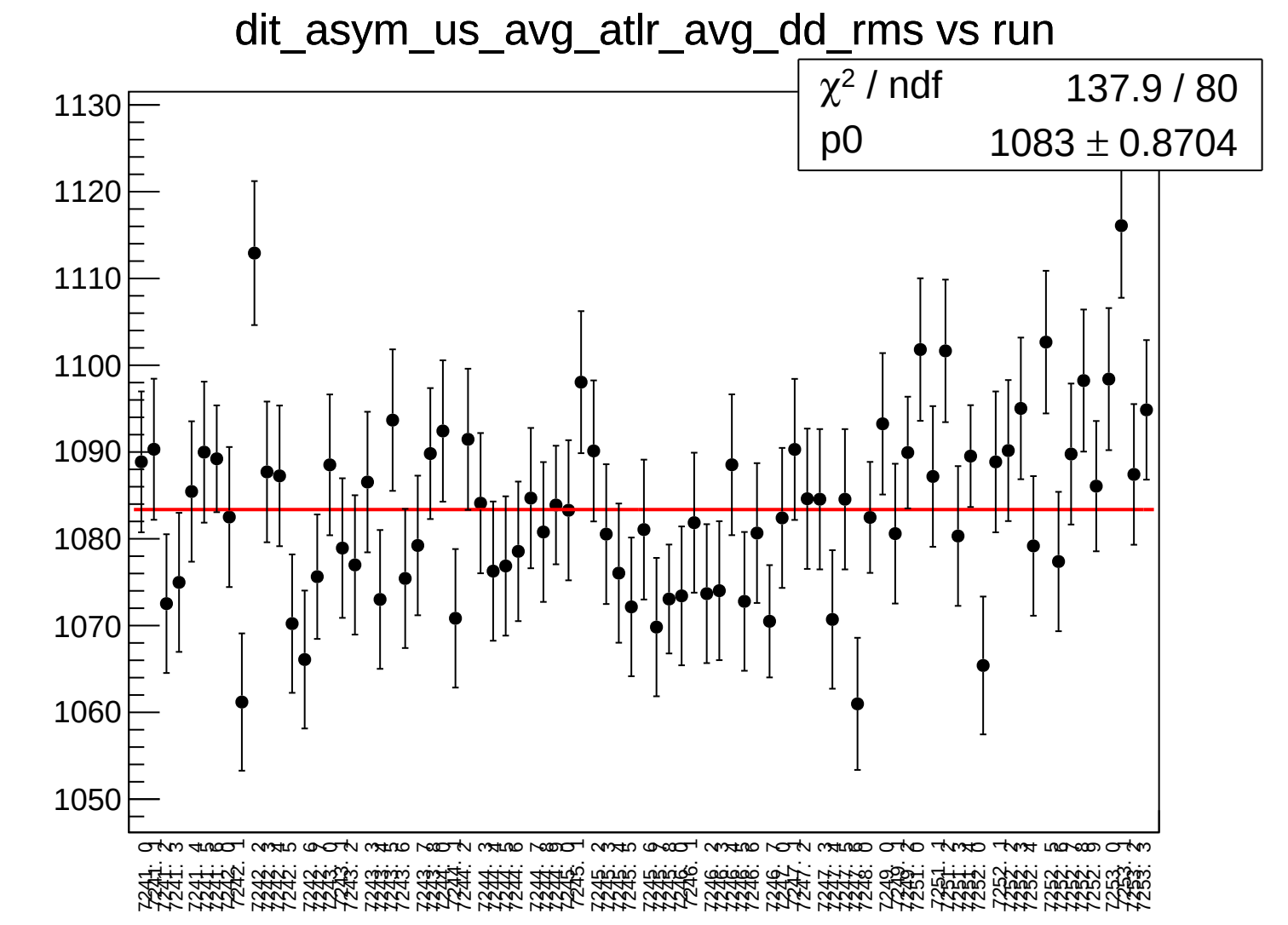

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 95.43 / 80
p0 511.9 ± 3509
100
50
0
−50
−100
pull
Entries 81
Mean −99.74
Std Dev 0
2
1
0
−1
−2

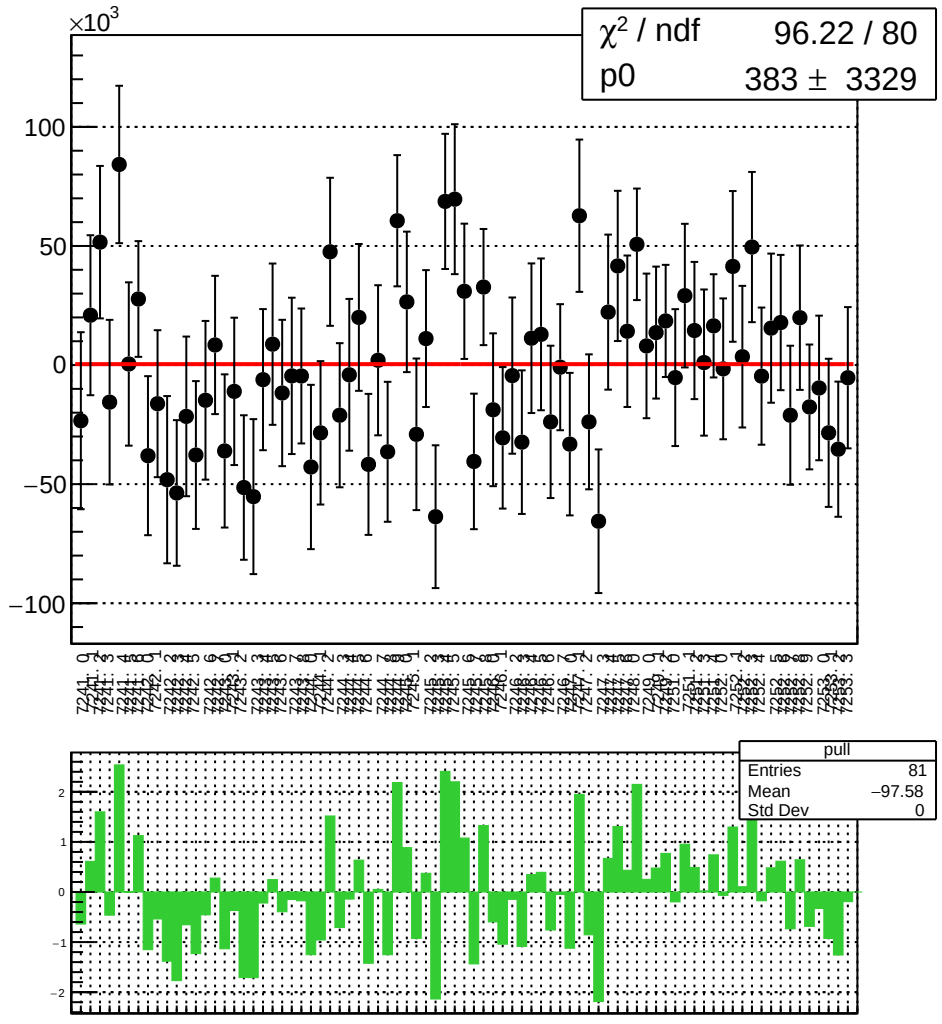

pull1D
Entries 81
Mean −0.02597
Std Dev 1.085
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

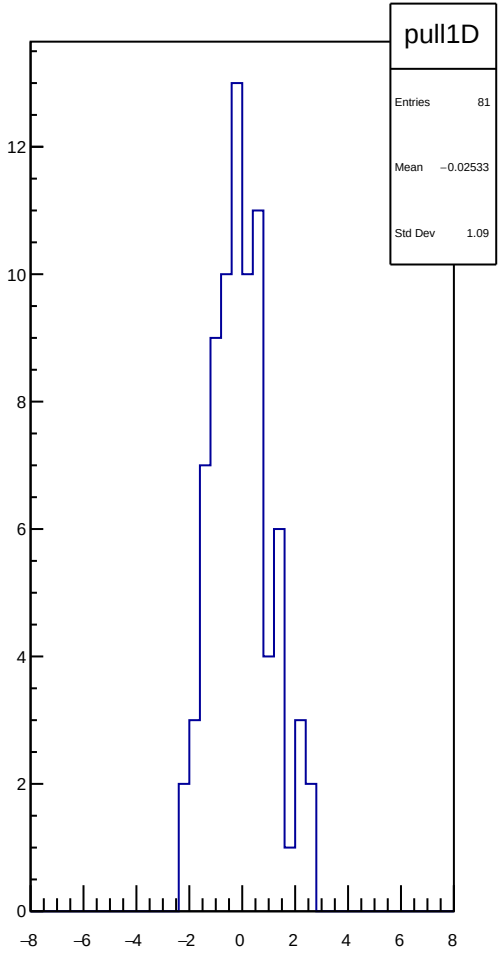

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 4785 / 80
p0 3083 ± 2.481
3800
3600
3400
3200
3000
2800

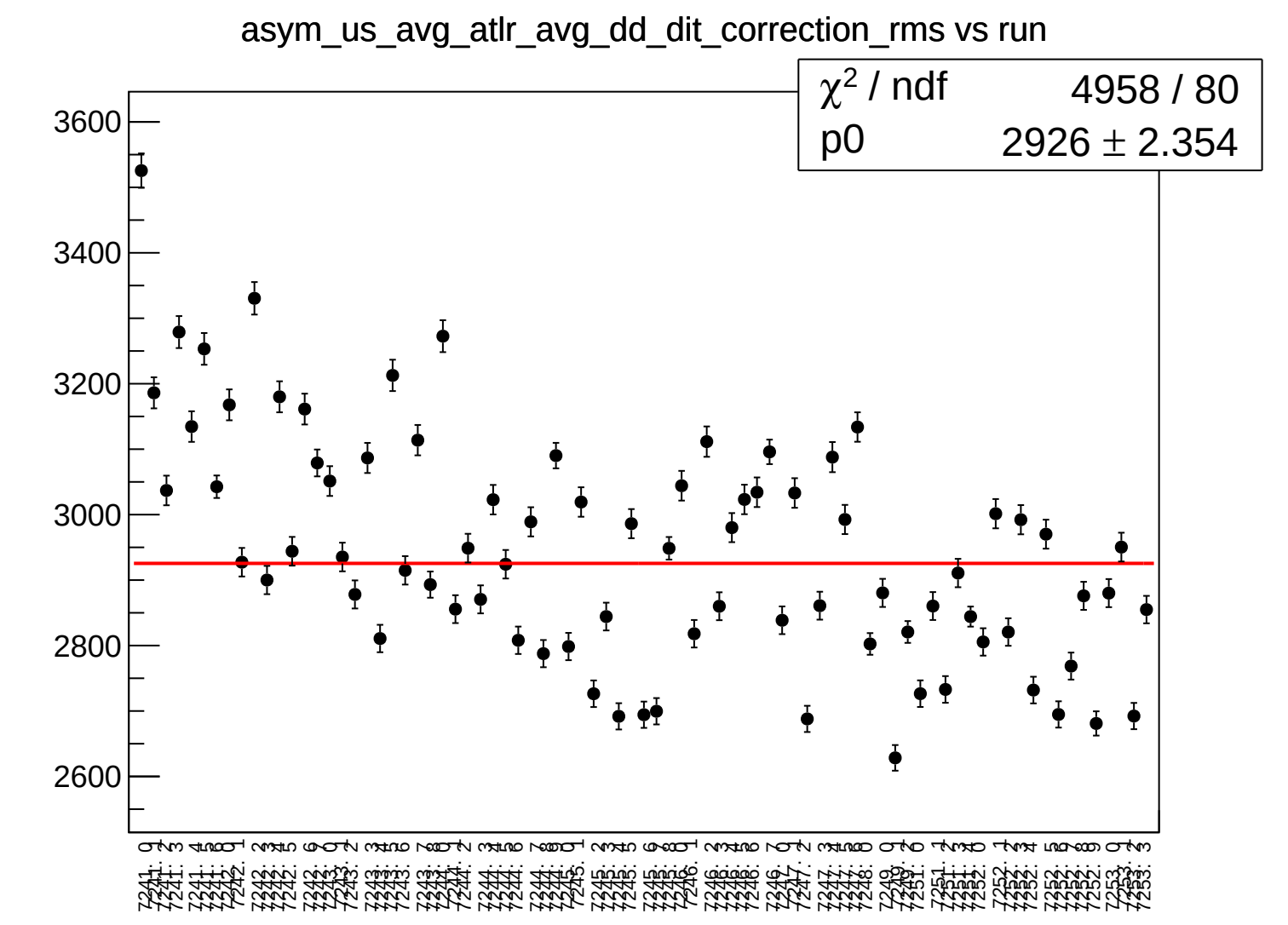

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 80.94 / 80
p0 −599.3 ± 1231
pull
Entries 81
Mean −4402
Std Dev 0

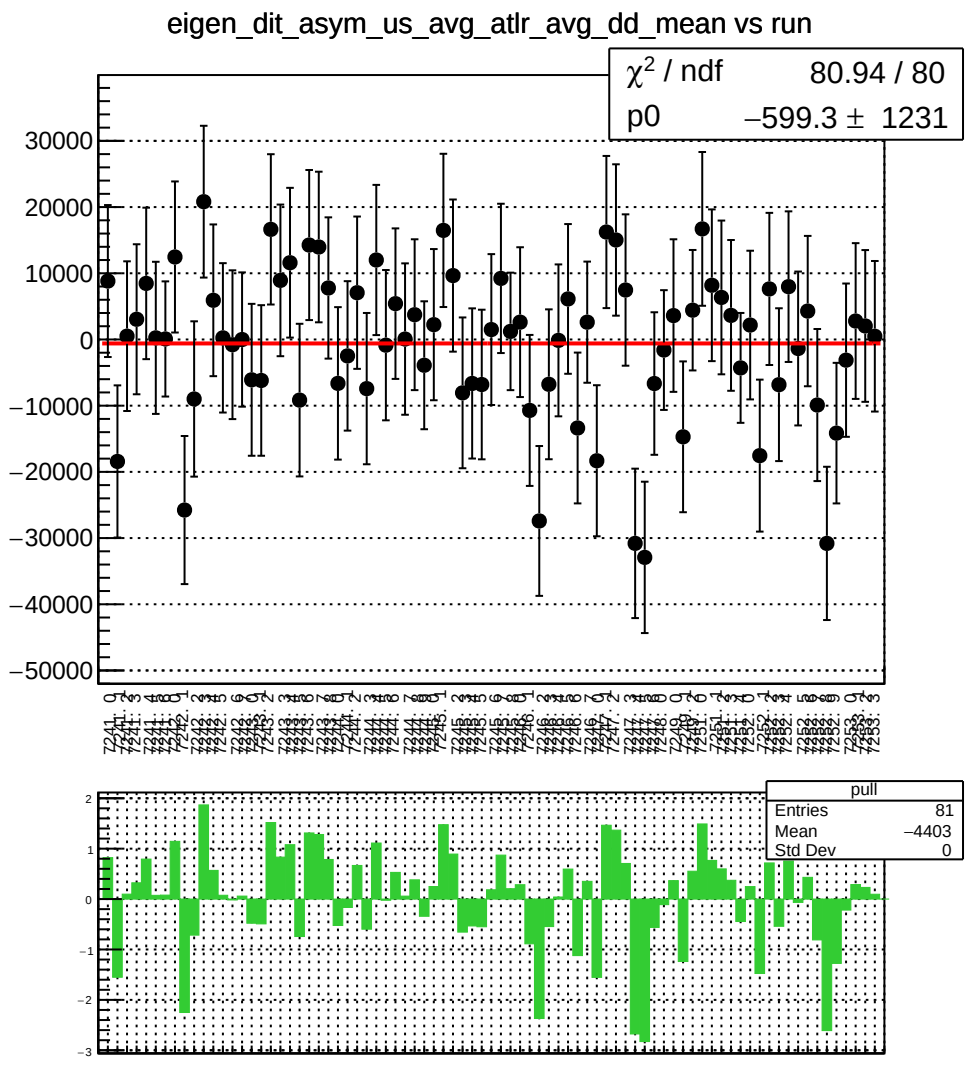

pull1D
Entries 81
Mean 0.0009252
Std Dev 0.9996

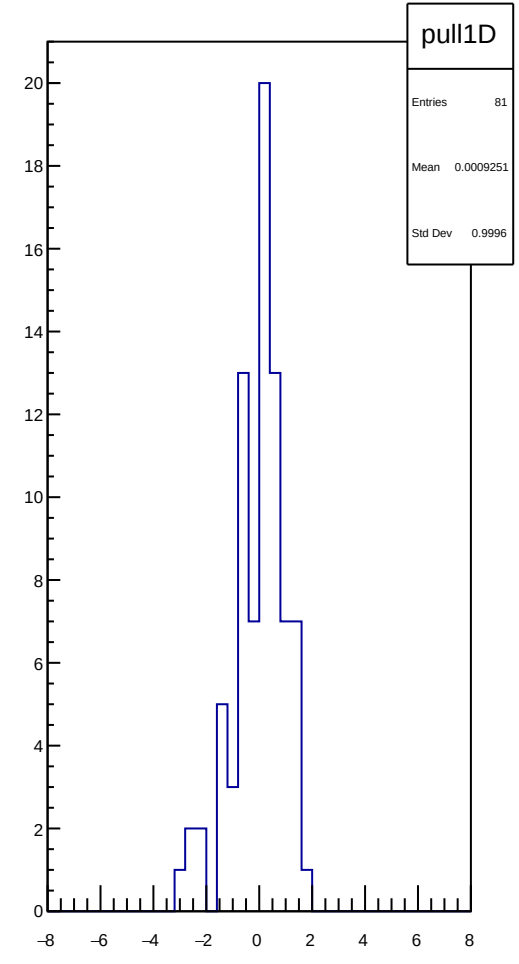

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 137.9 / 80
p0 1083 ± 0.8704
1130
1120
1110
1100
1090
1080
1070
1060
1050

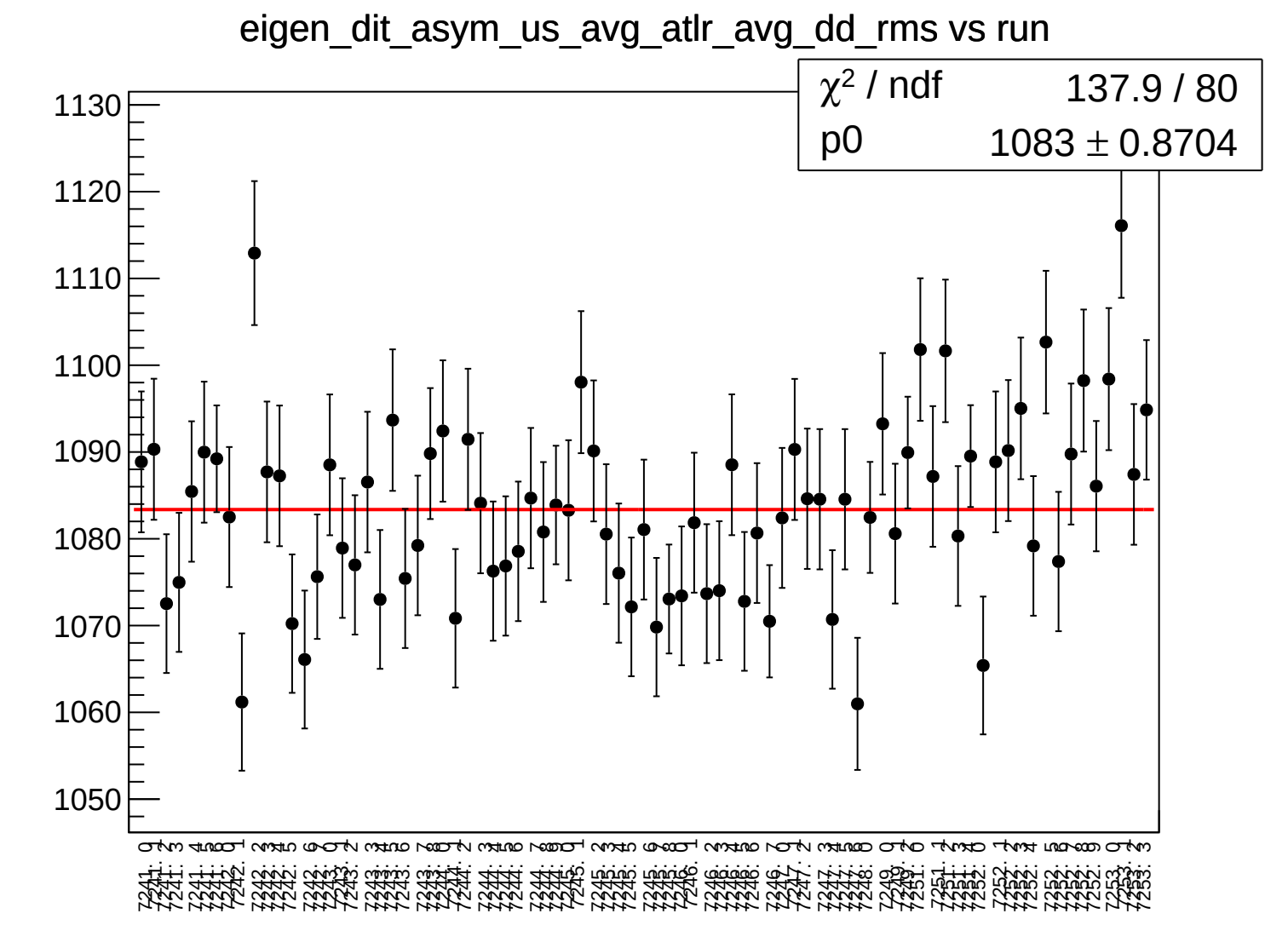

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 96.22 / 80
p0 383 ± 3329
100
50
0
−50
−100
pull
Entries 81
Mean −97.58
Std Dev 0
2
1
0
−1
−2

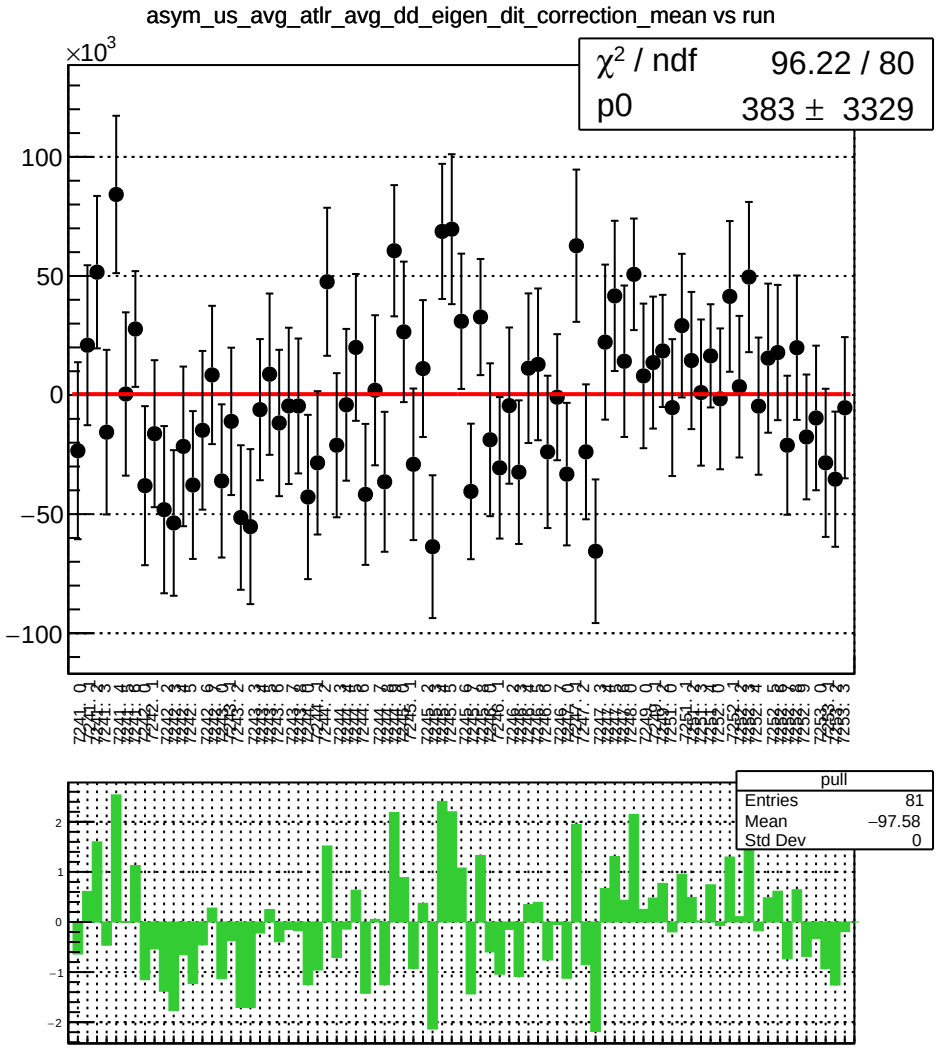

pull1D
Entries 81
Mean −0.02533
Std Dev 1.09
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

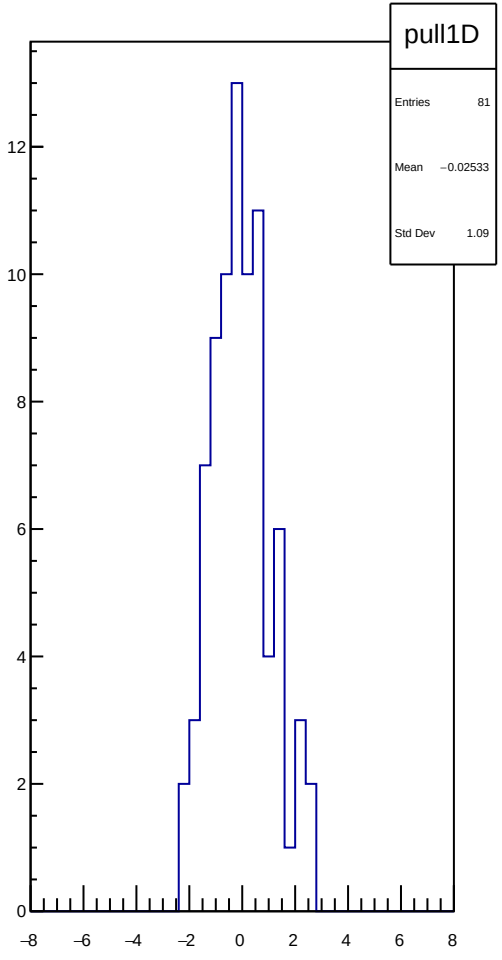

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ² / ndf 4958 / 80
p0 2926 ± 2.354
3600
3400
3200
3000
2800
2600

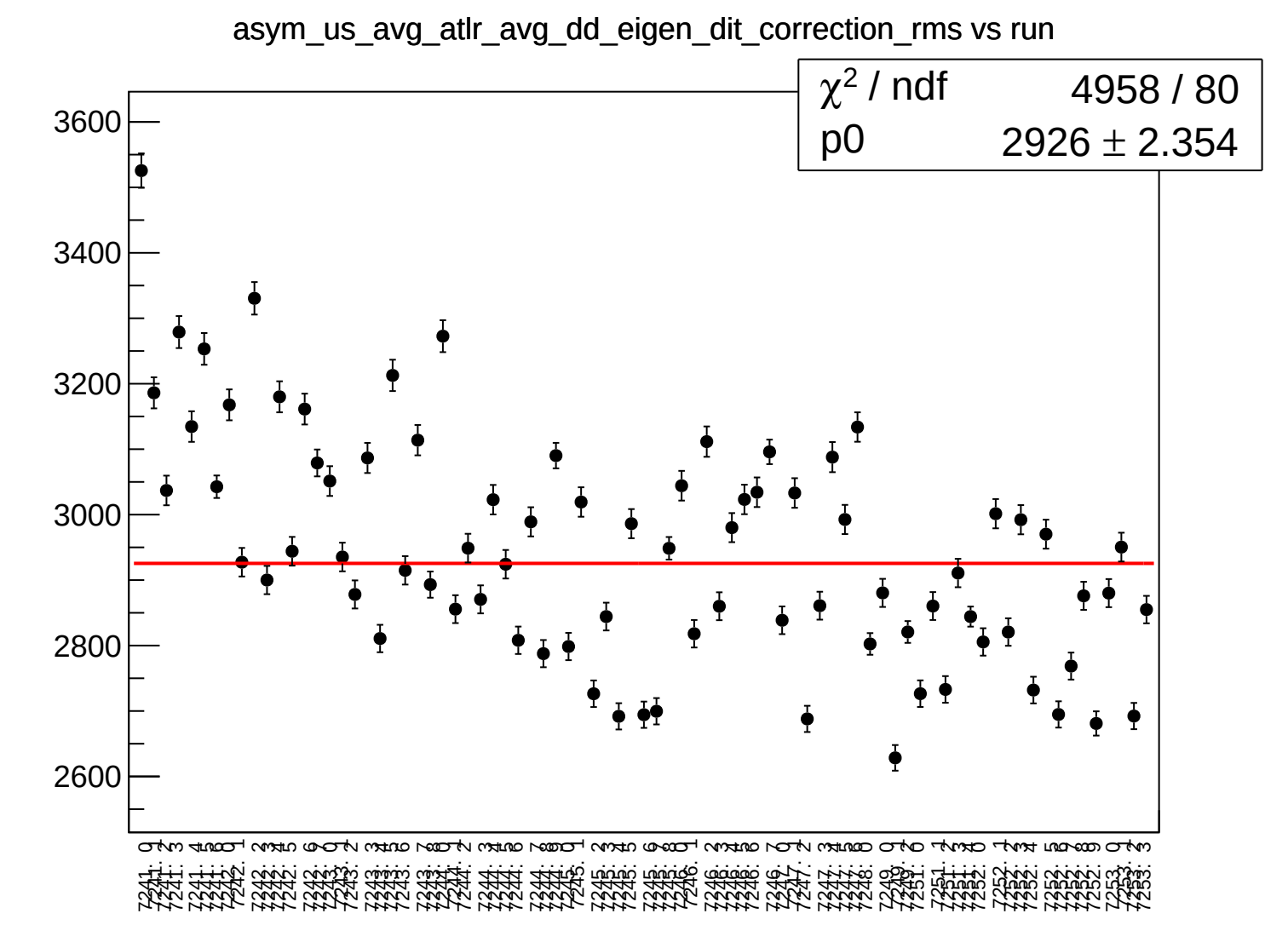

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 80.94 / 80
p0 −599.3 ± 1231
pull
Entries 81
Mean −4403
Std Dev 0

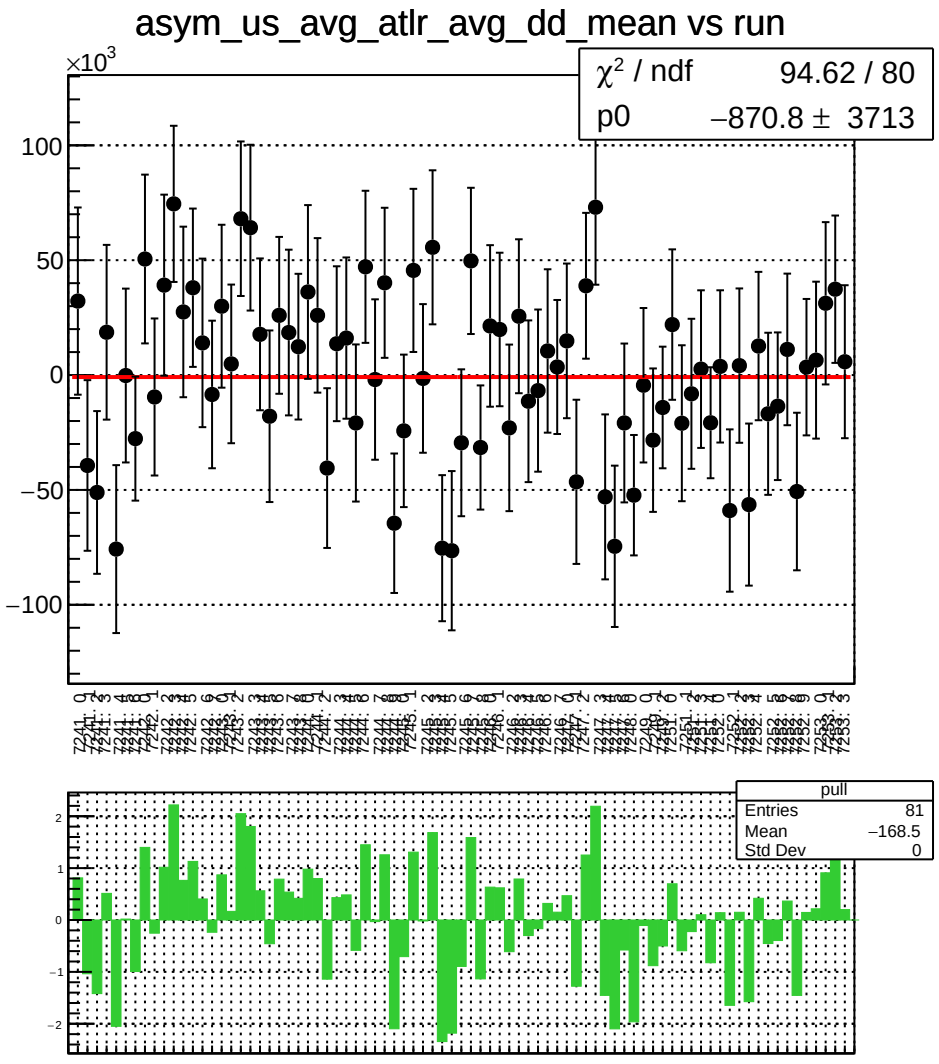

pull1D
Entries 81
Mean 0.0009251
Std Dev 0.9996

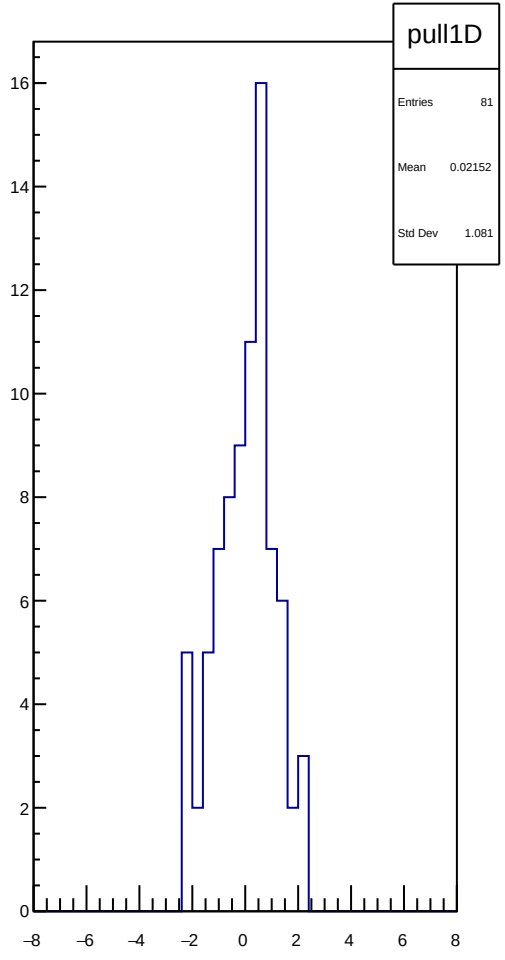

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 137.9 / 80
p0 1083 ± 0.8704
1130
1120
1110
1100
1090
1080
1070
1060
1050

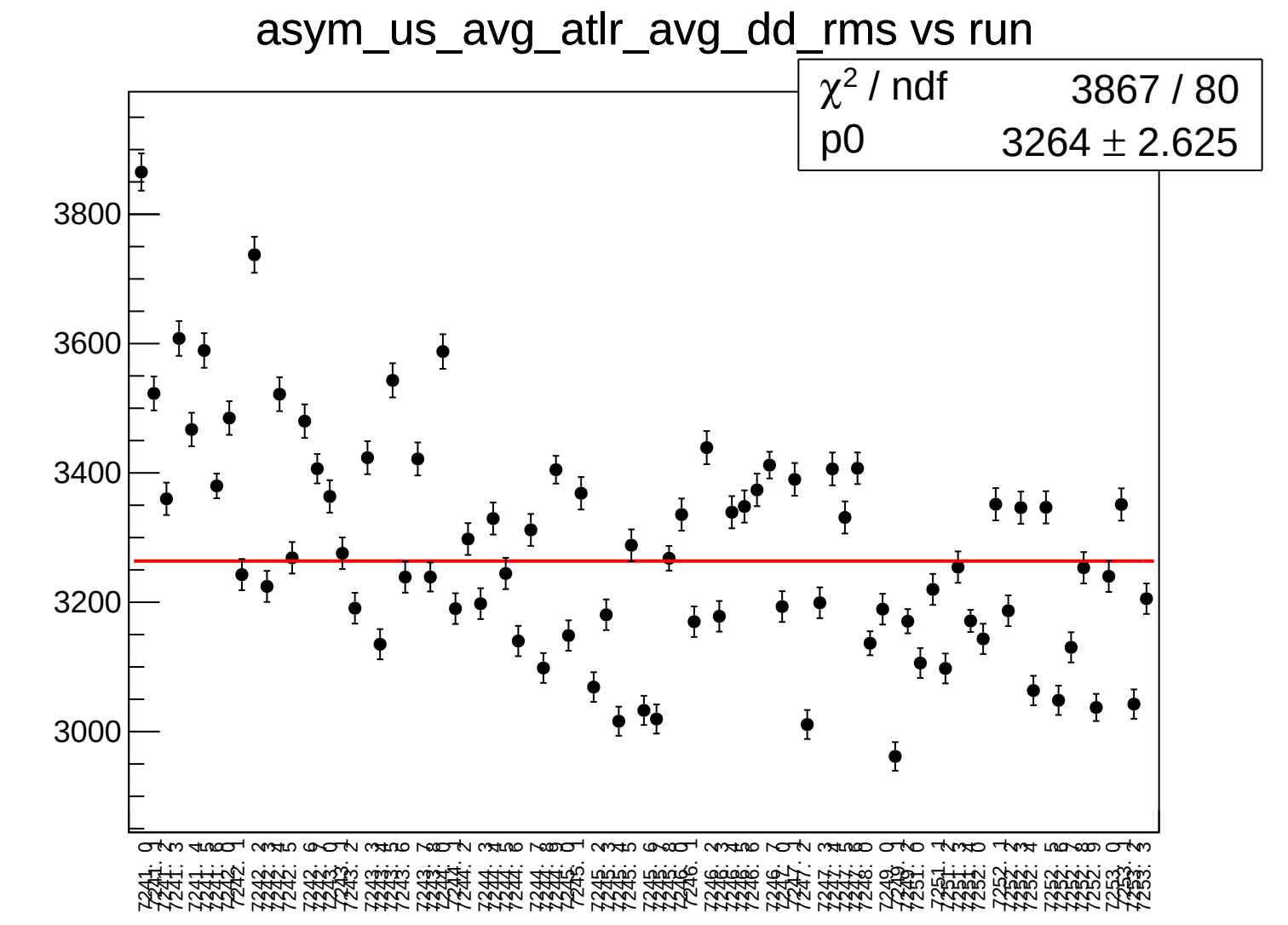

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.22 / 80
p0 383 ± 3329
100
50
0
−50
−100
pull
Entries 81
Mean −97.58
Std Dev 0
2
1
0
−1
−2

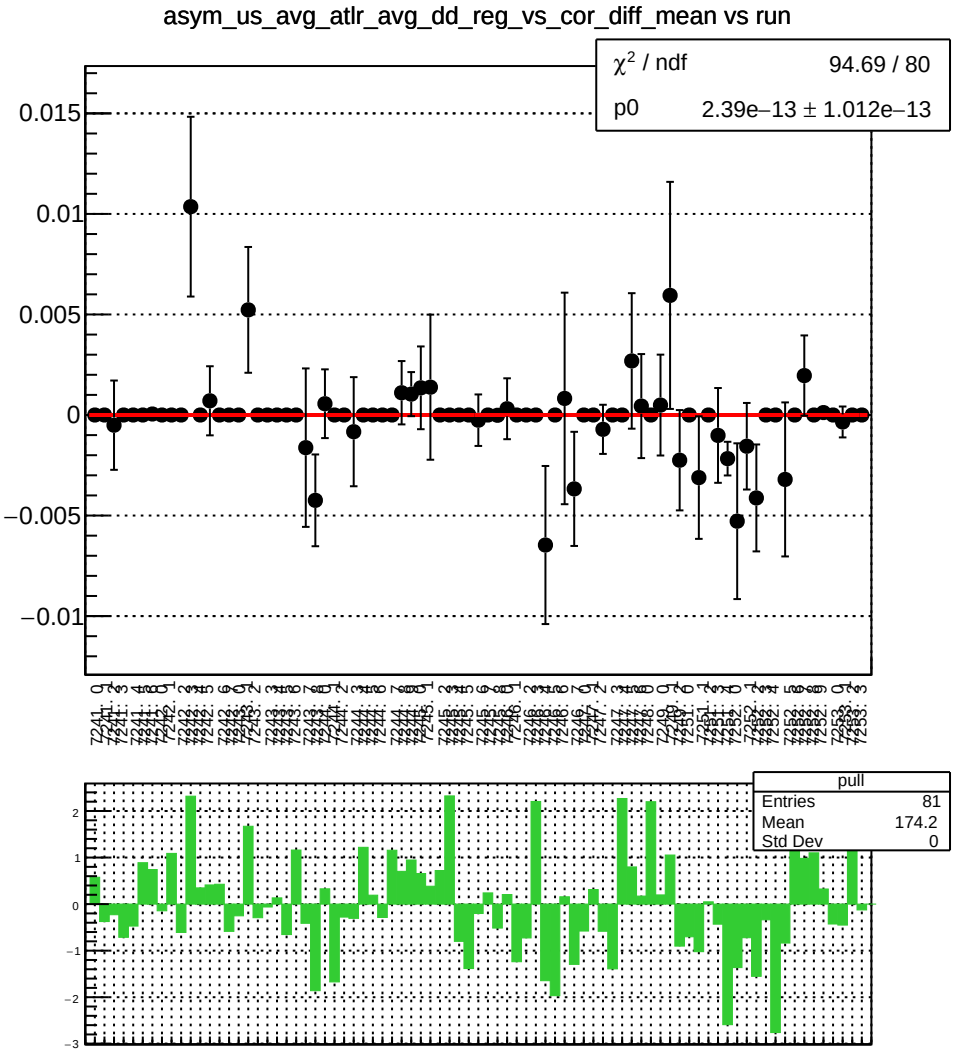

pull1D
Entries 81
Mean −0.02533
Std Dev 1.09
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

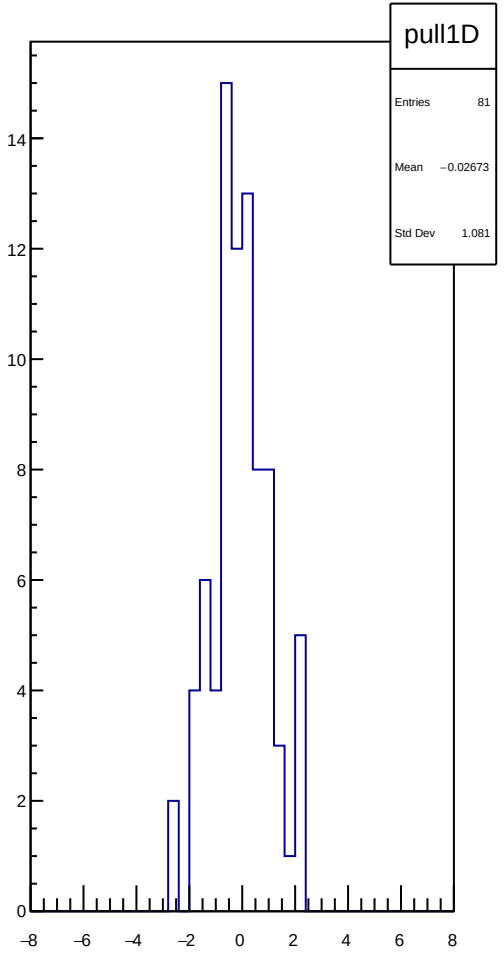

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 4958 / 80
p0 2926 ± 2.354
3600
3400
3200
3000
2800
2600

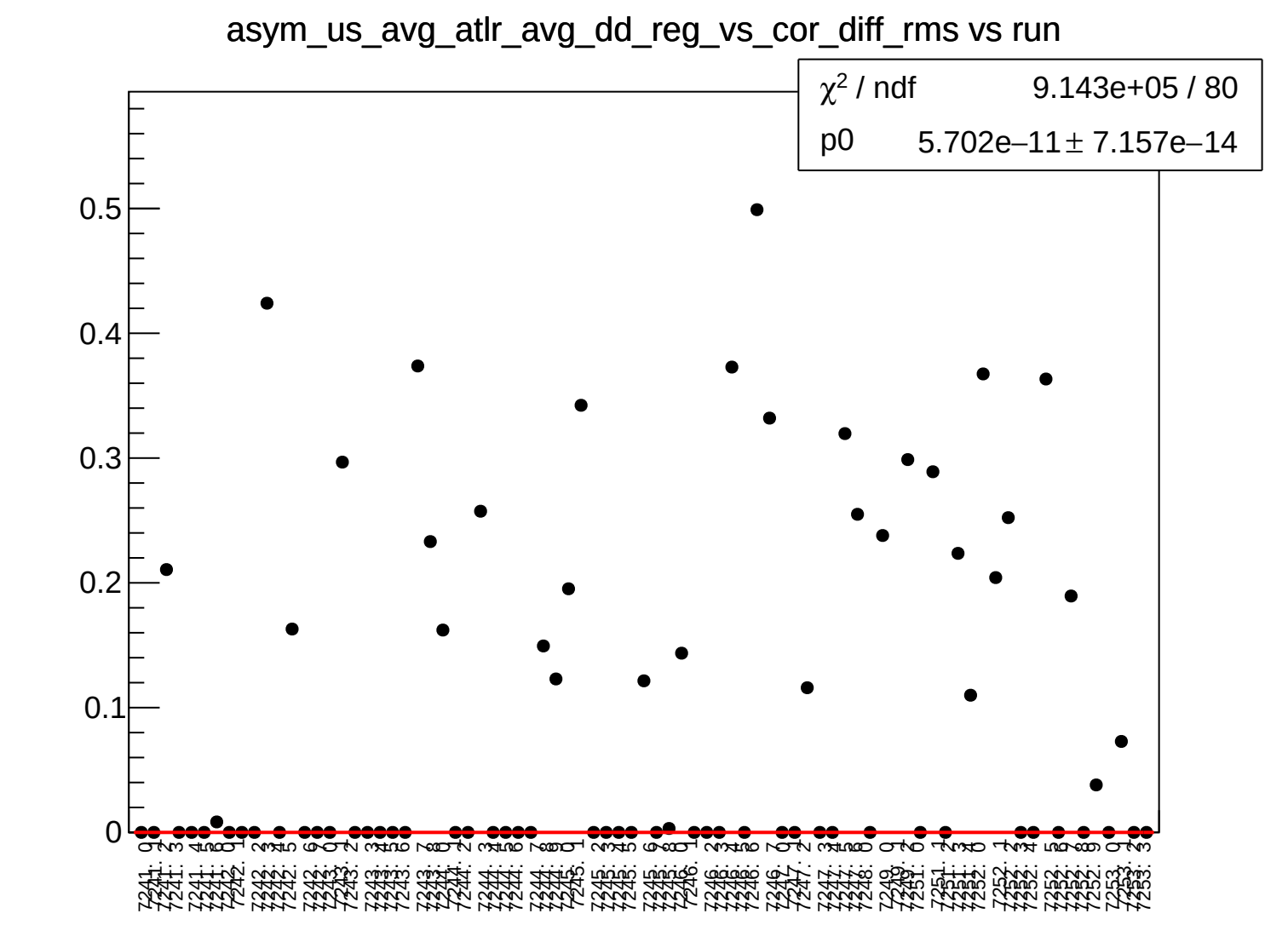

asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 94.62 / 80
p0 −870.8 ± 3713
×10³
100
50
0
−50
−100
pull
Entries 81
Mean −168.5
Std Dev 0
2
1
0
−1
−2

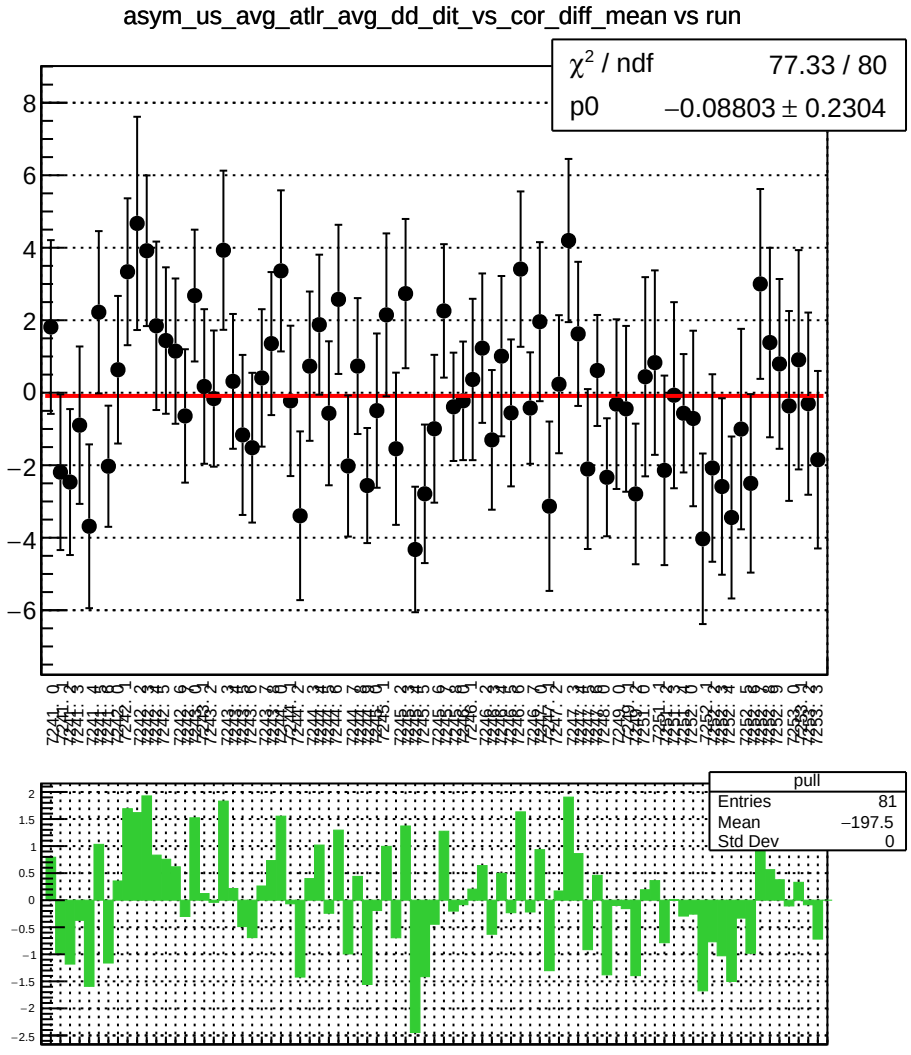

pull1D
Entries 81
Mean 0.02152
Std Dev 1.081
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

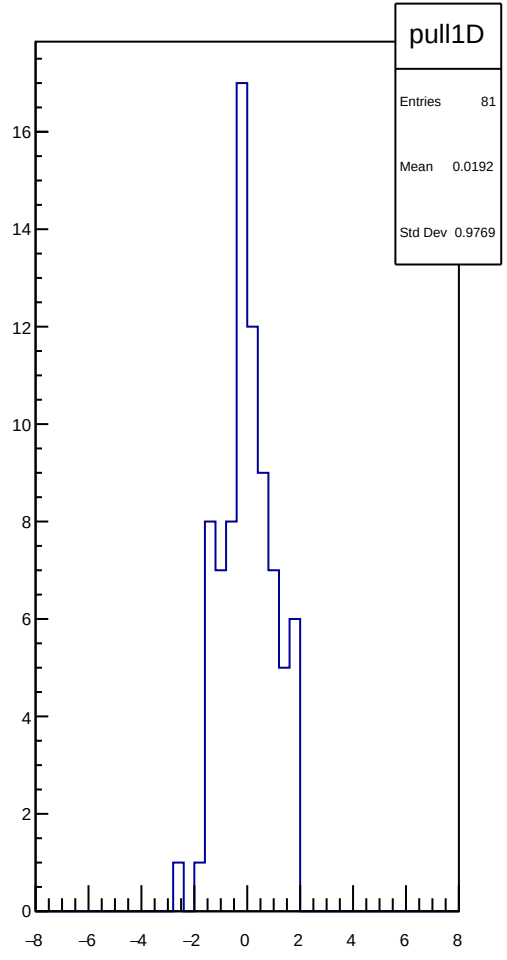

asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 3867 / 80
p0 3264 ± 2.625
3800
3600
3400
3200
3000

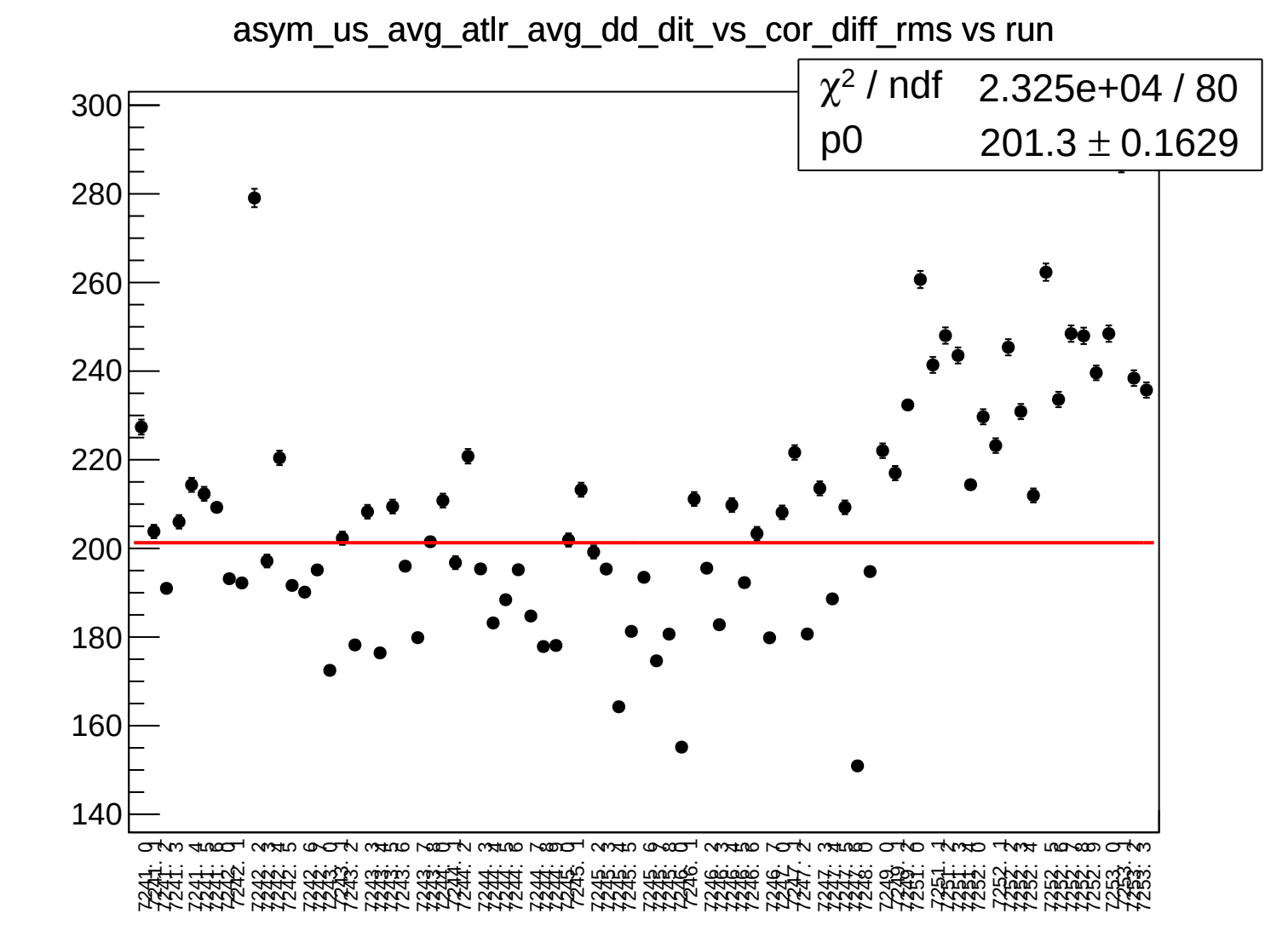

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 94.69 / 80
p0 2.39e−13 ± 1.012e−13
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 81
Mean 174.2
Std Dev 0
2
1
0
−1
−2
−3

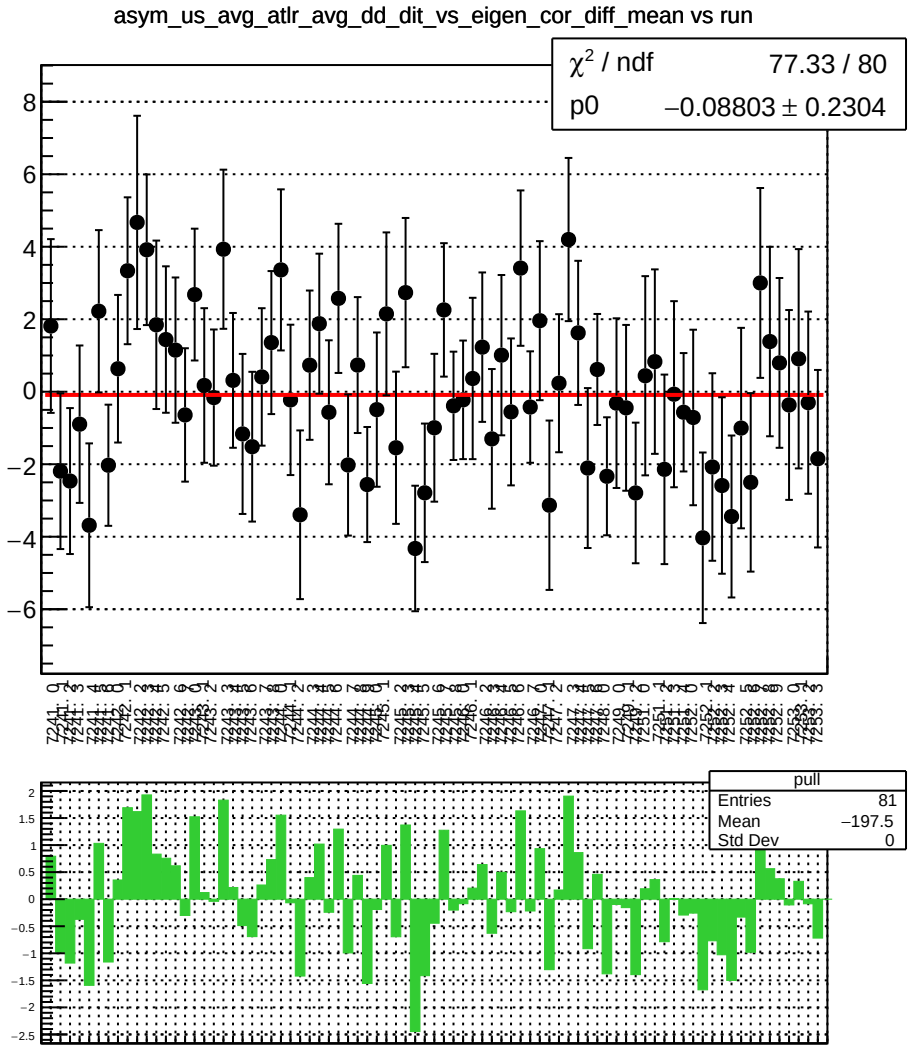

pull1D
Entries 81
Mean −0.02673
Std Dev 1.081
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

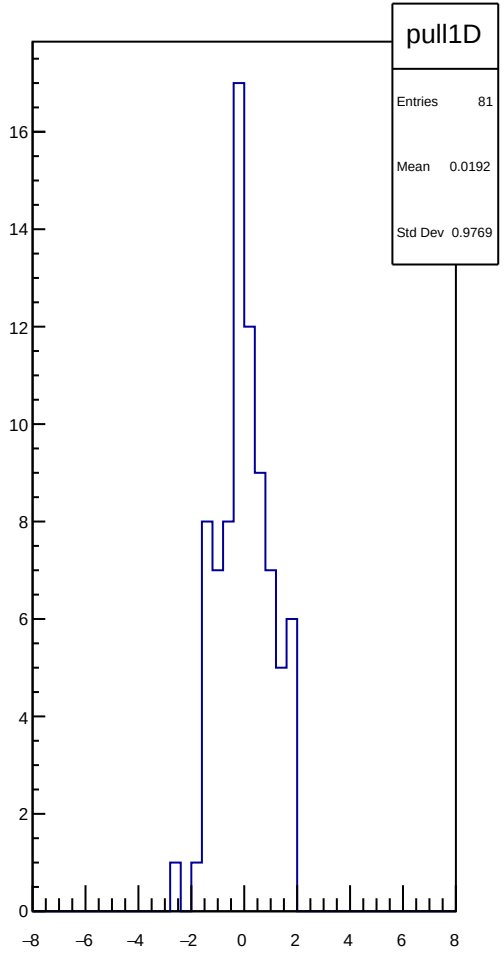

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ^2 / ndf 9.143e+05 / 80
p0 5.702e−11 ± 7.157e−14
0.5
0.4
0.3
0.2
0.1
0

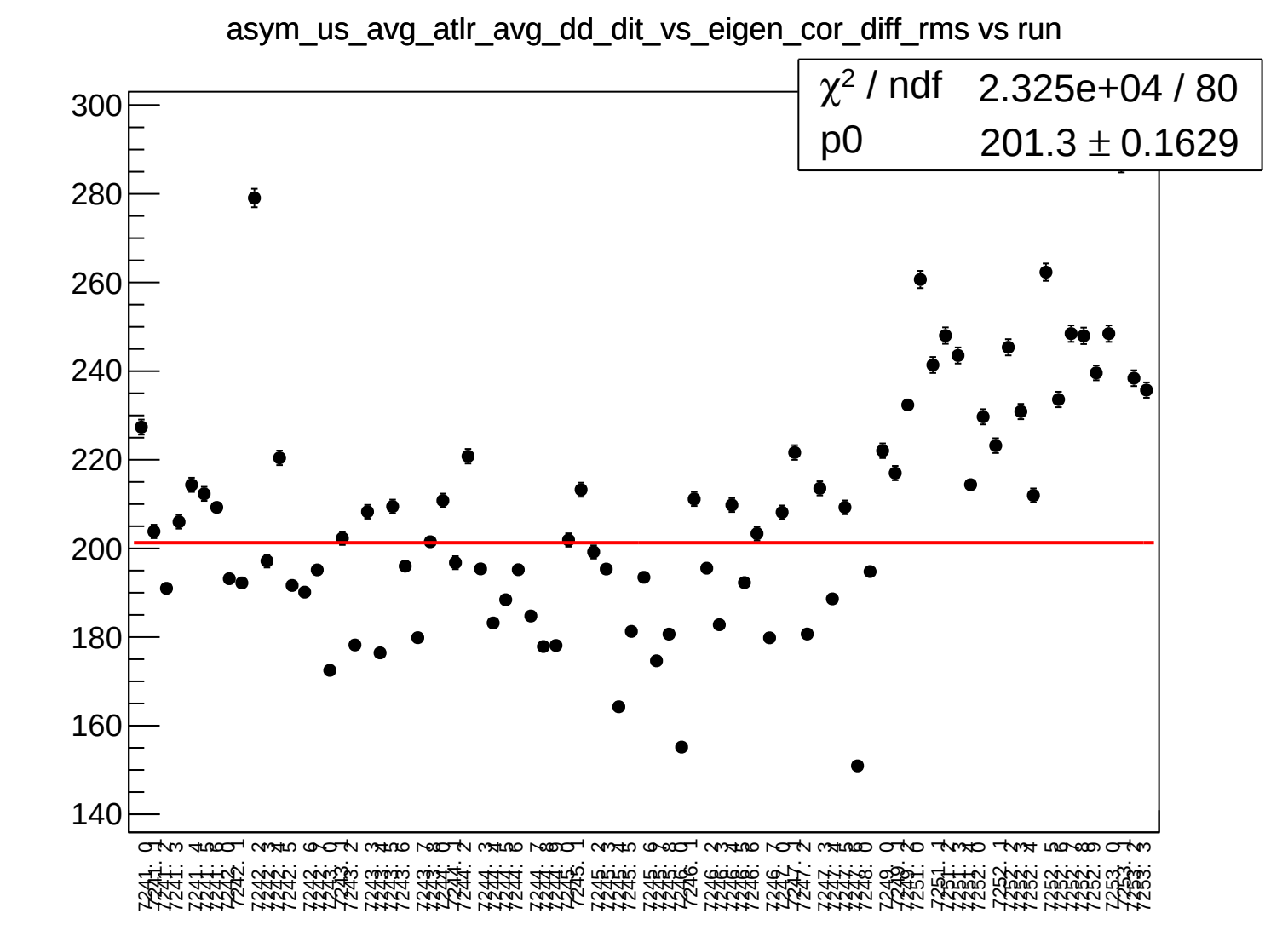

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 77.33 / 80
p0 −0.08803 ± 0.2304
pull
Entries 81
Mean −197.5
Std Dev 0

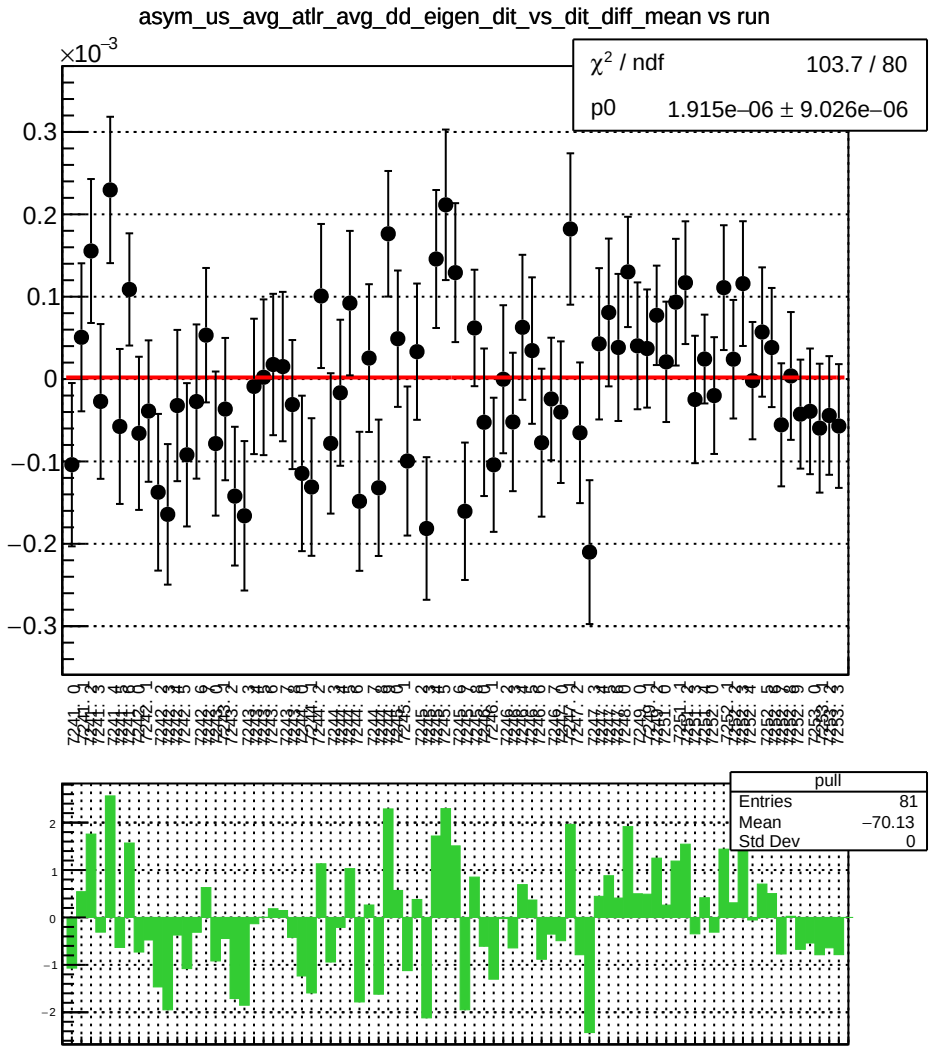

pull1D
Entries 81
Mean 0.0192
Std Dev 0.9769

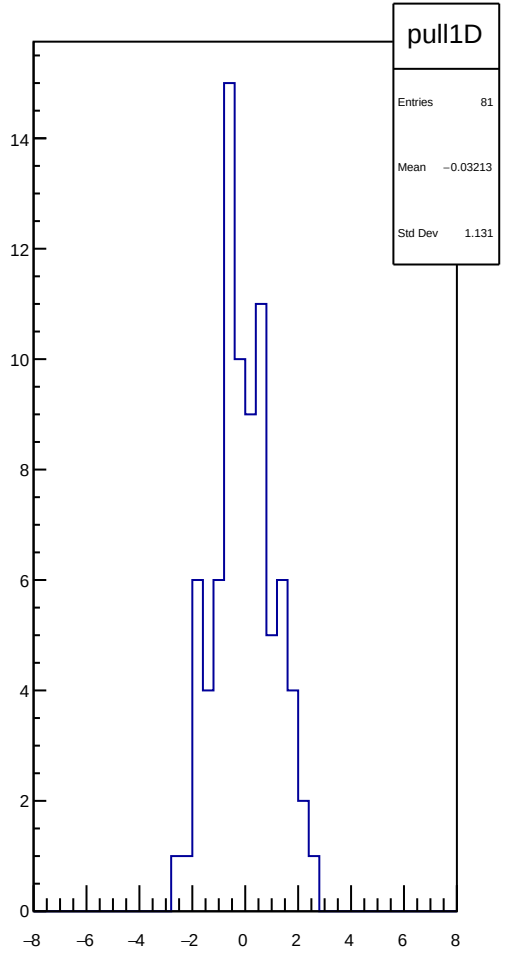

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.325e+04 / 80
p0 201.3 ± 0.1629
300
280
260
240
220
200
180
160
140

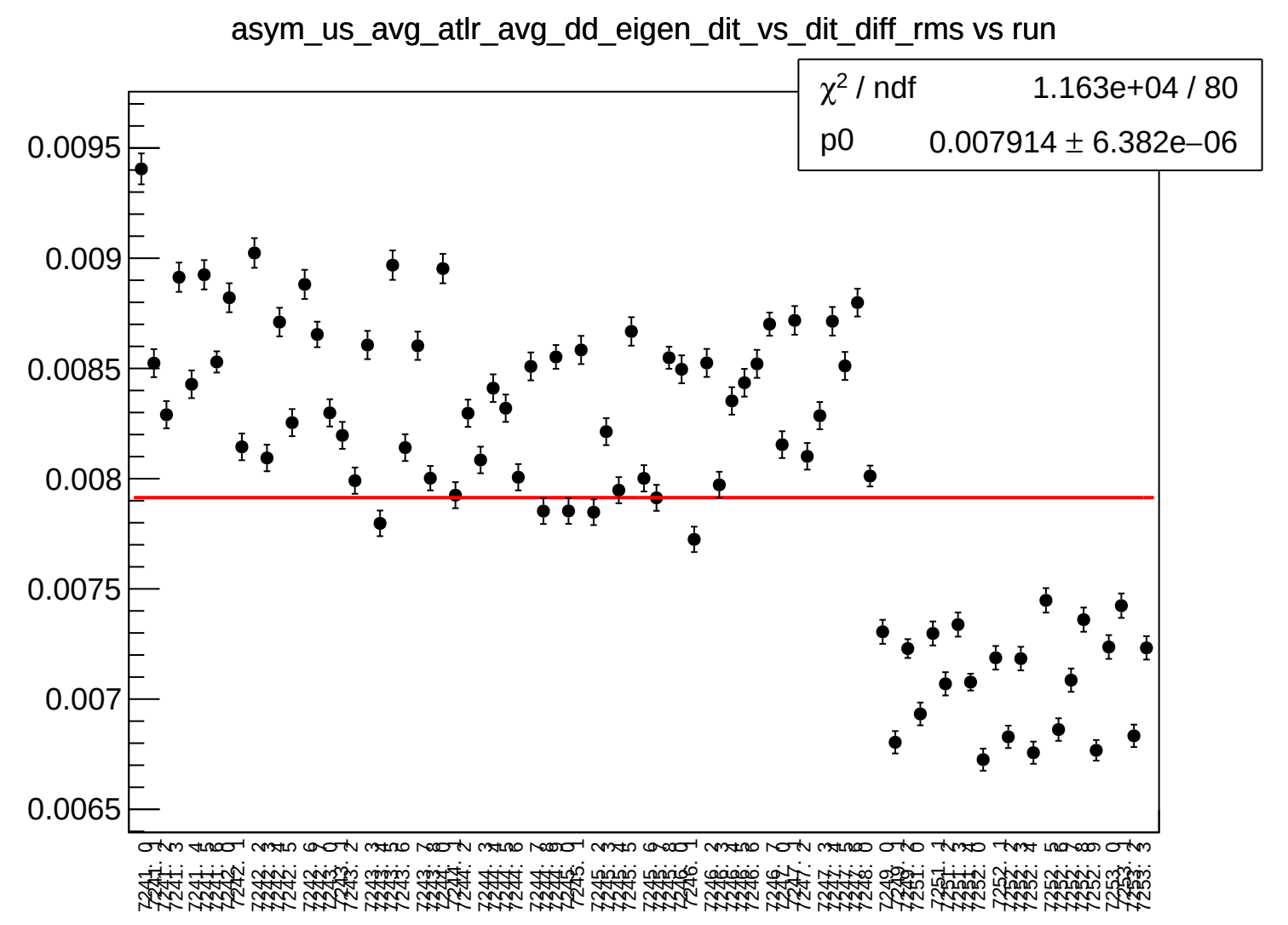

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.33 / 80
p0 −0.08803 ± 0.2304
pull
Entries 81
Mean −197.5
Std Dev 0

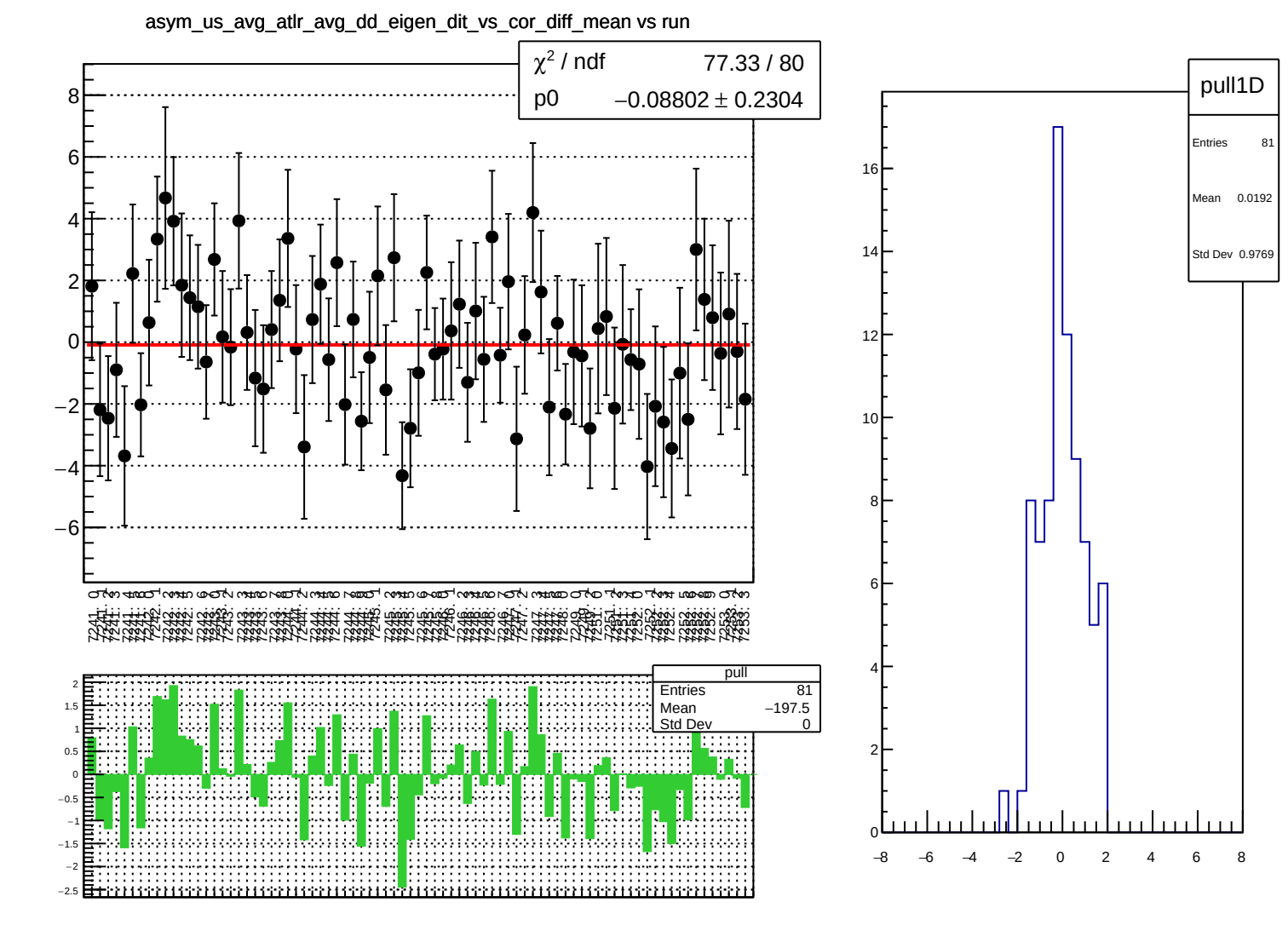

pull1D
Entries 81
Mean 0.0192
Std Dev 0.9769

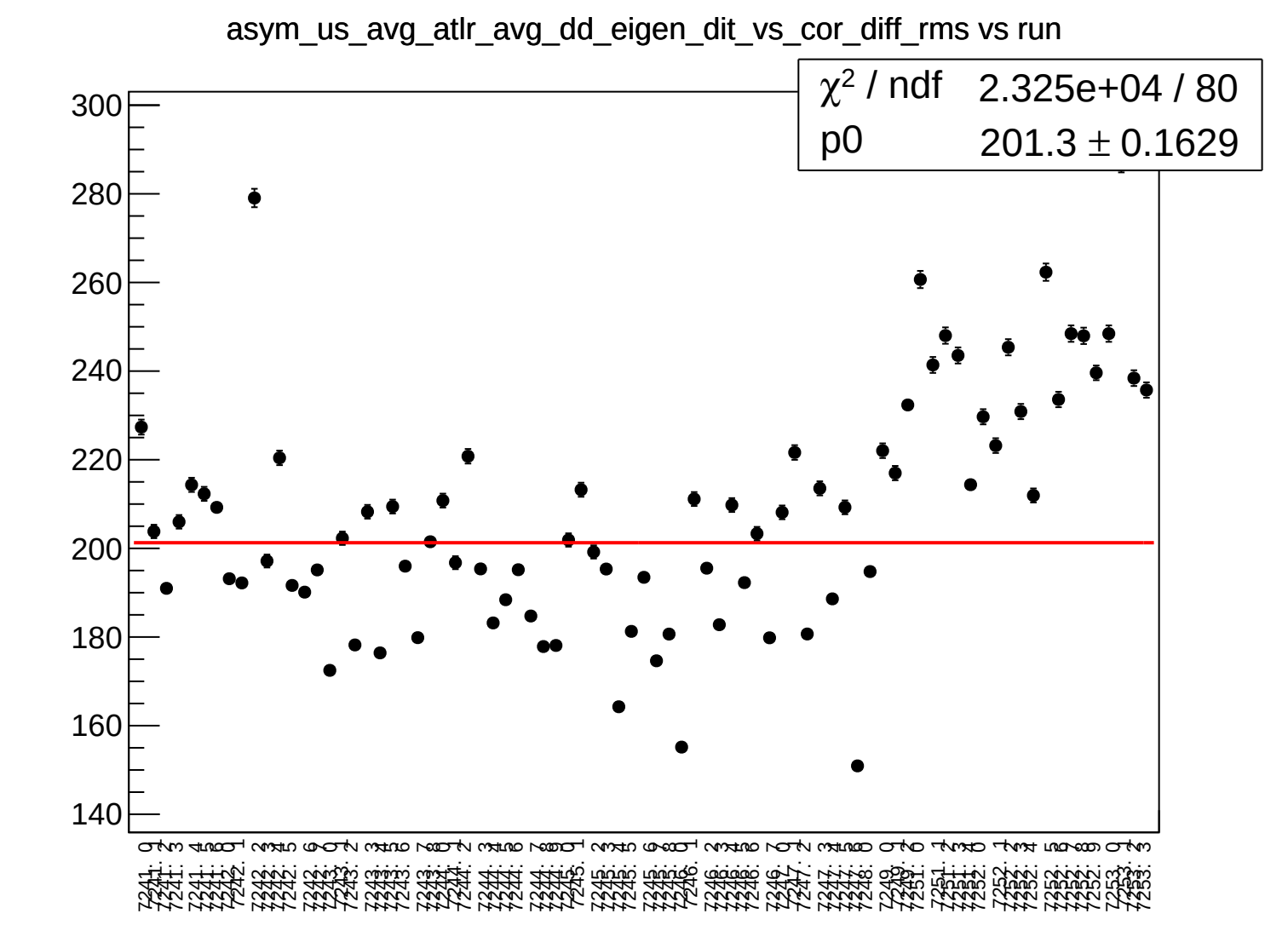

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.325e+04 / 80
p0 201.3 ± 0.1629
300
280
260
240
220
200
180
160
140

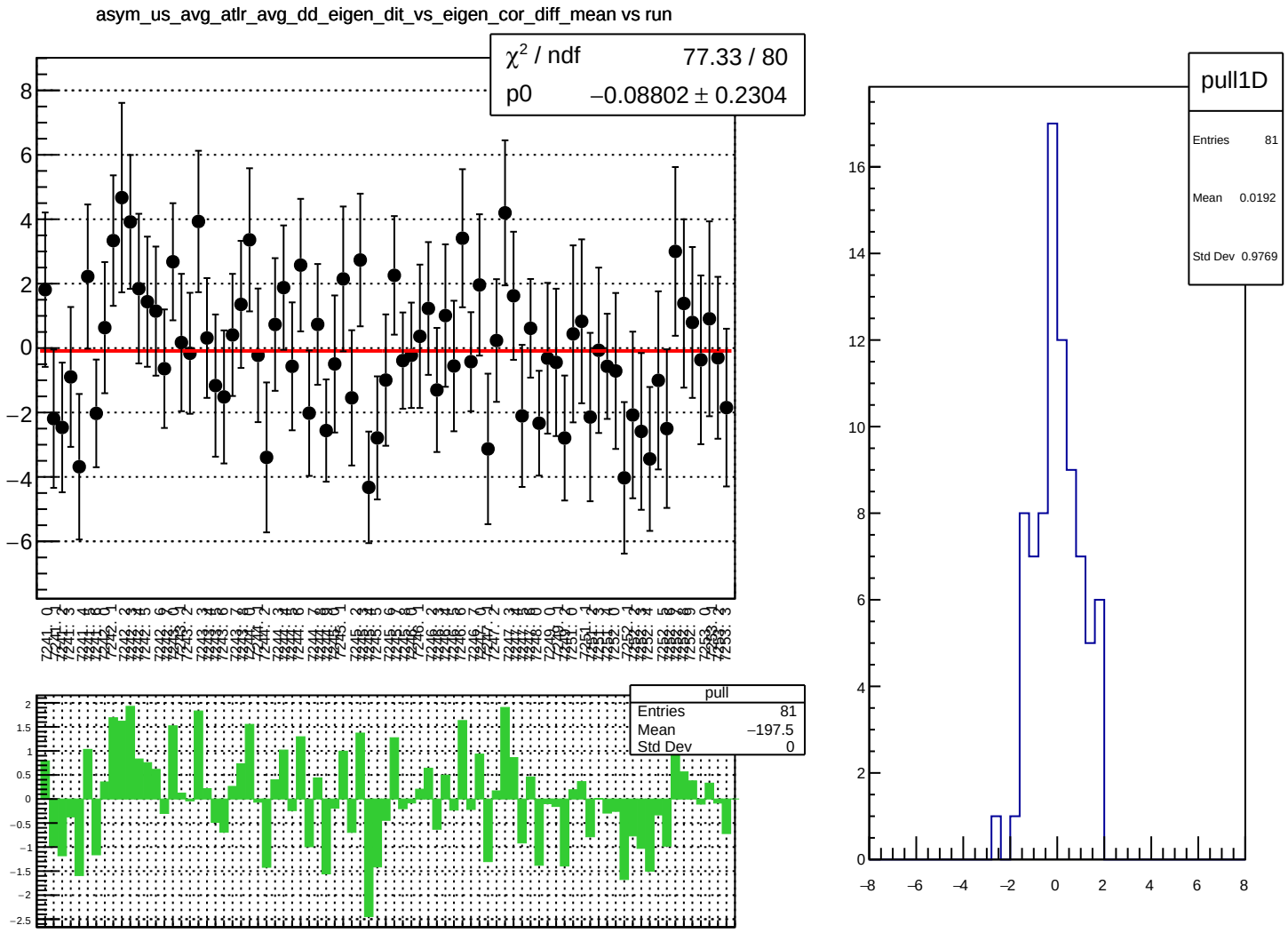

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103.7 / 80
p0 1.915e−06 ± 9.026e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 81
Mean −70.13
Std Dev 0
2
1
0
−1
−2

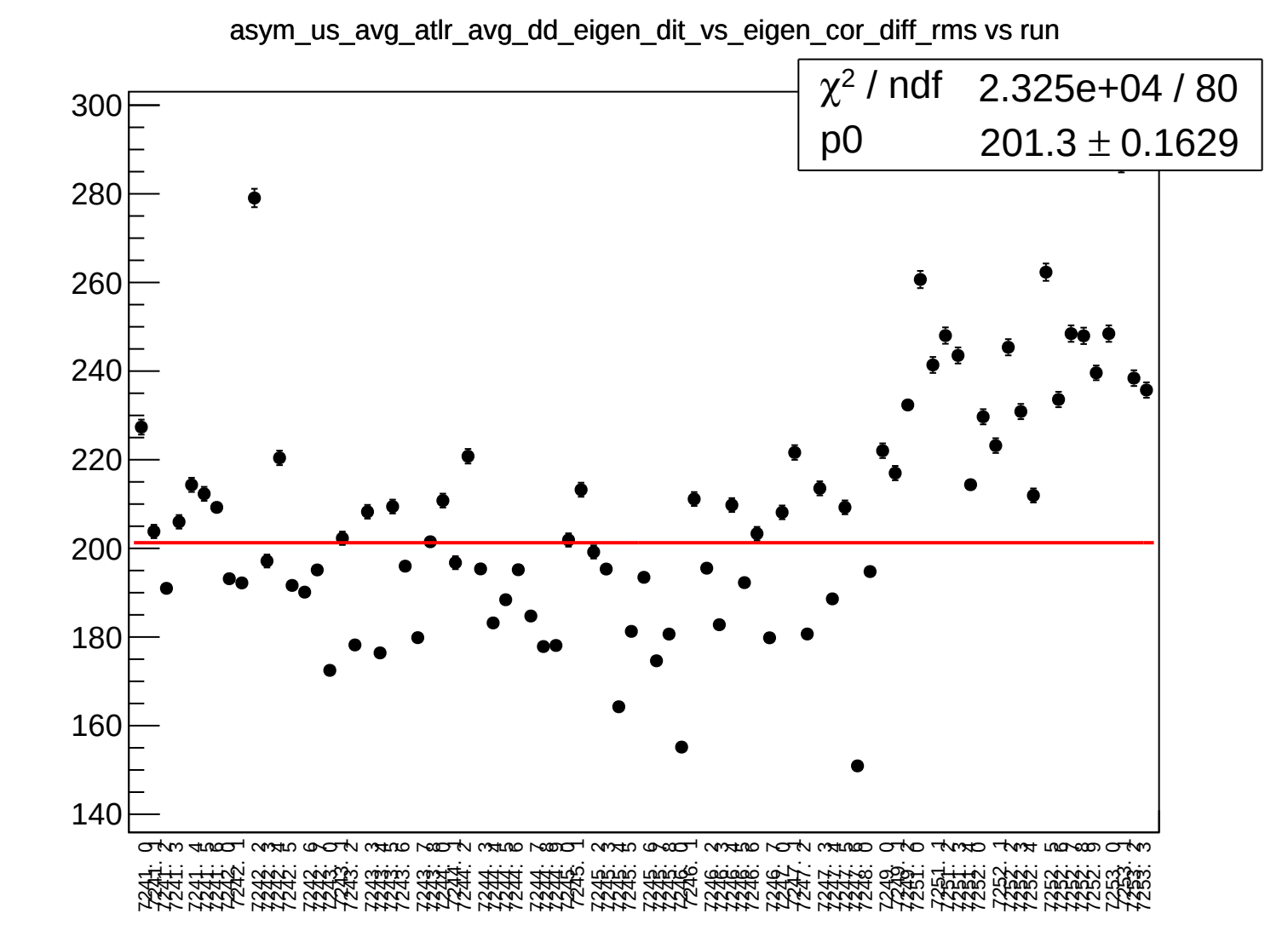

pull1D
Entries 81
Mean −0.03213
Std Dev 1.131
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

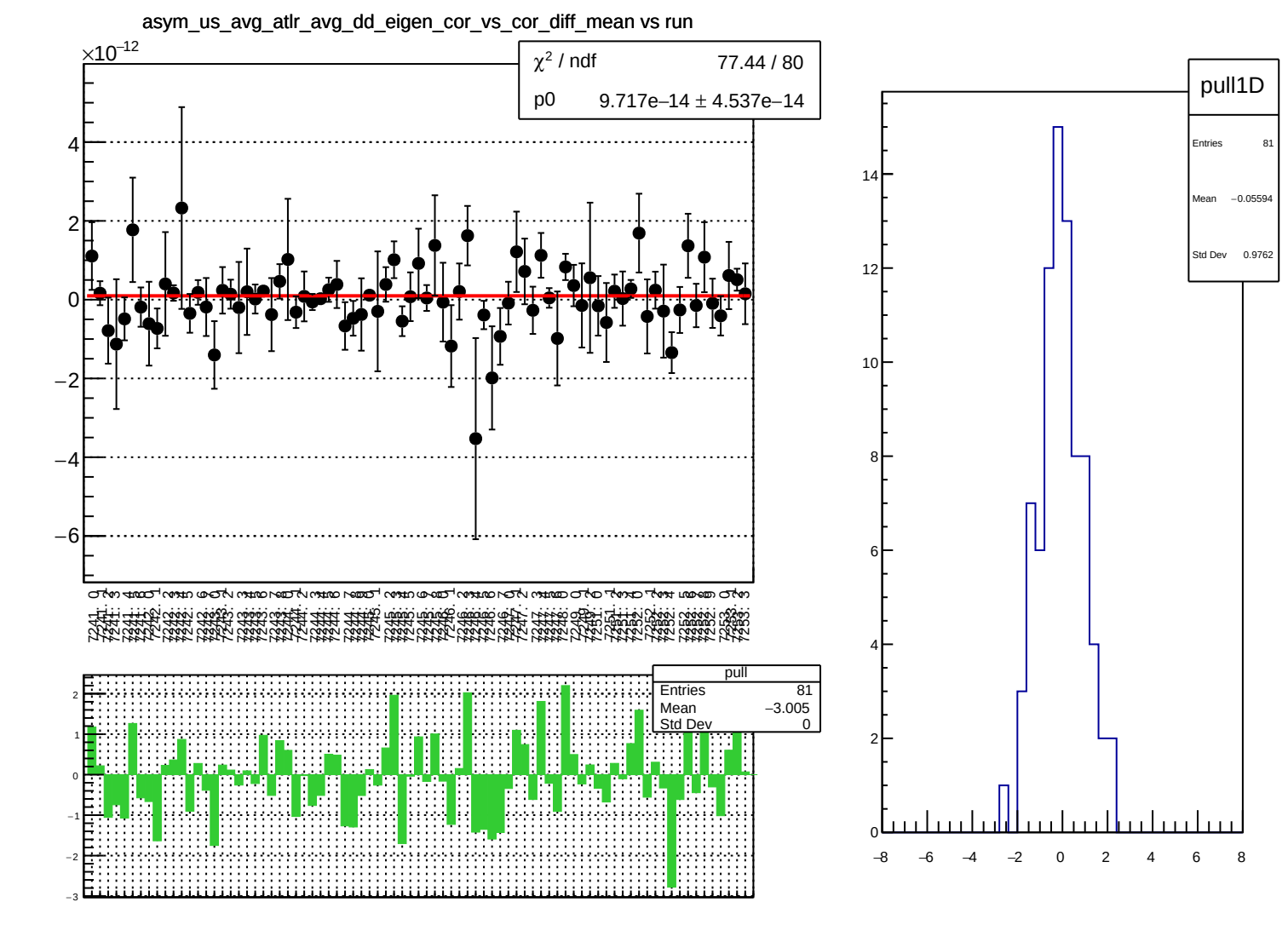

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.163e+04 / 80
p0 0.007914 ± 6.382e−06
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065

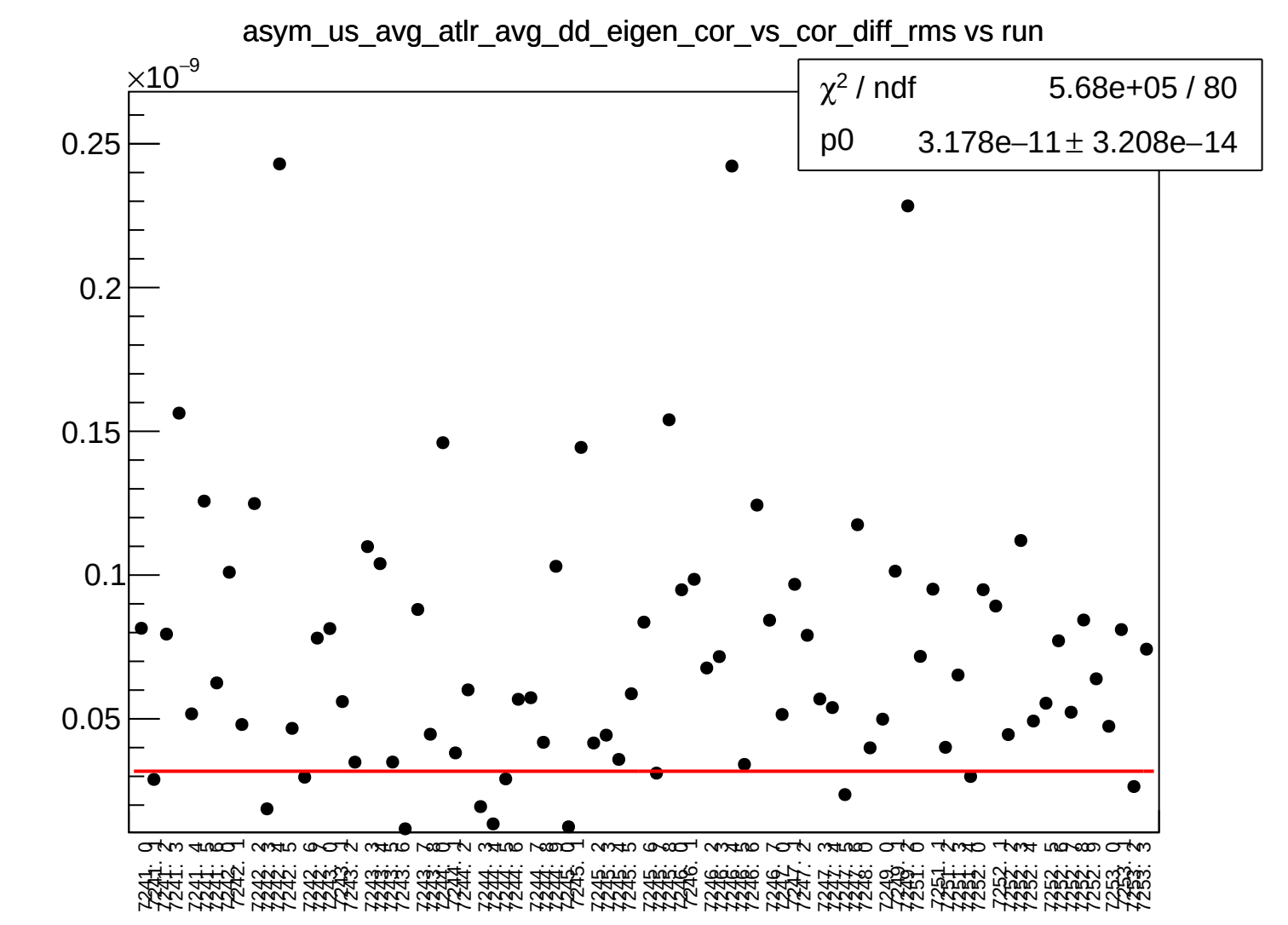

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.33 / 80
p0 −0.08802 ± 0.2304
pull
Entries 81
Mean −197.5
Std Dev 0
pull1D
Entries 81
Mean 0.0192
Std Dev 0.9769

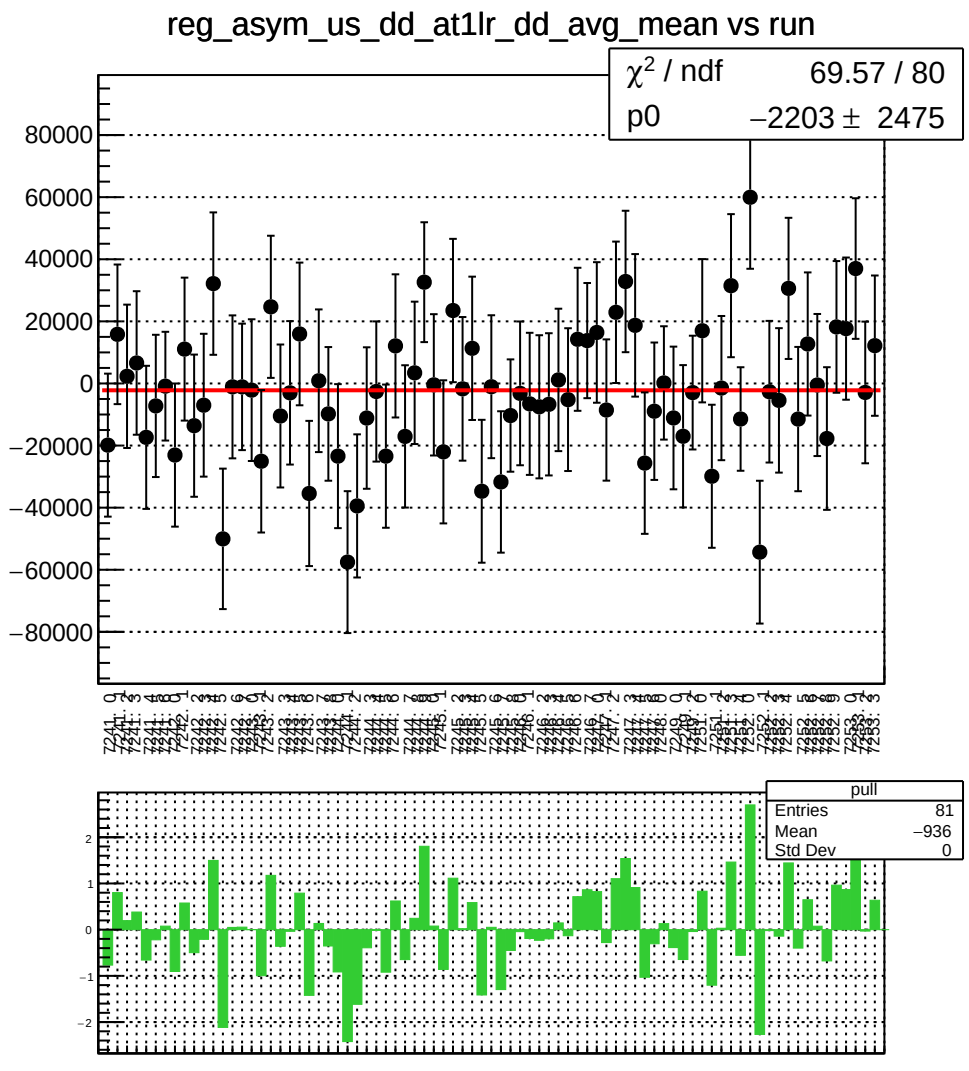

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.325e+04 / 80
p0 201.3 ± 0.1629
300
280
260
240
220
200
180
160
140

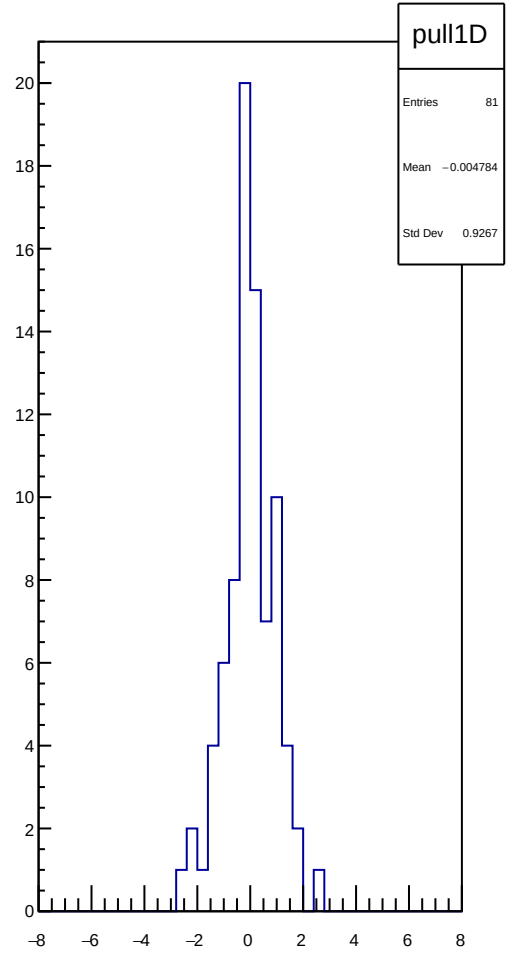

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.33 / 80
p0 −0.08802 ± 0.2304
pull
Entries 81
Mean −197.5
Std Dev 0
pull1D
Entries 81
Mean 0.0192
Std Dev 0.9769

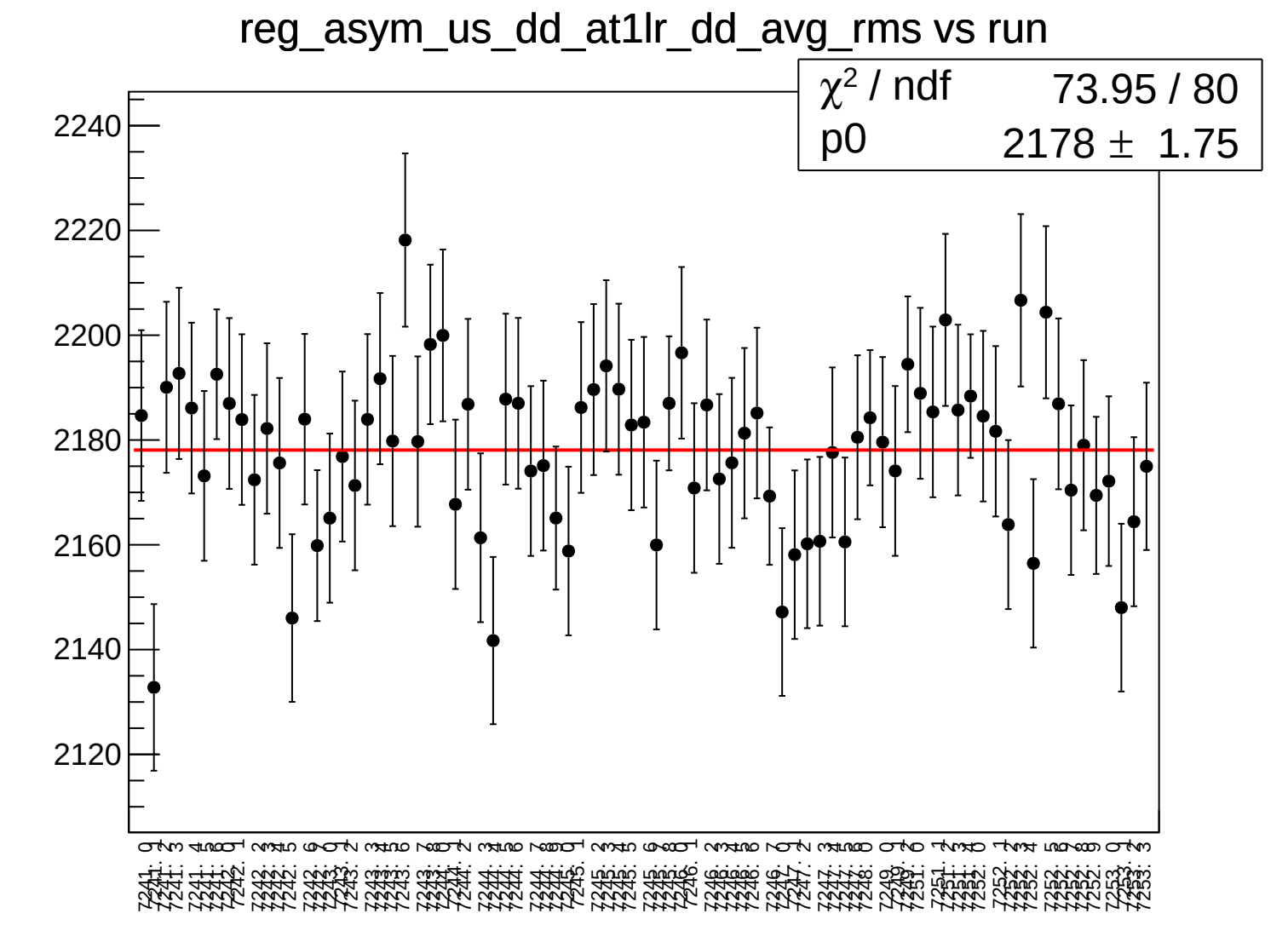

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.325e+04 / 80
p0 201.3 ± 0.1629
300
280
260
240
220
200
180
160
140

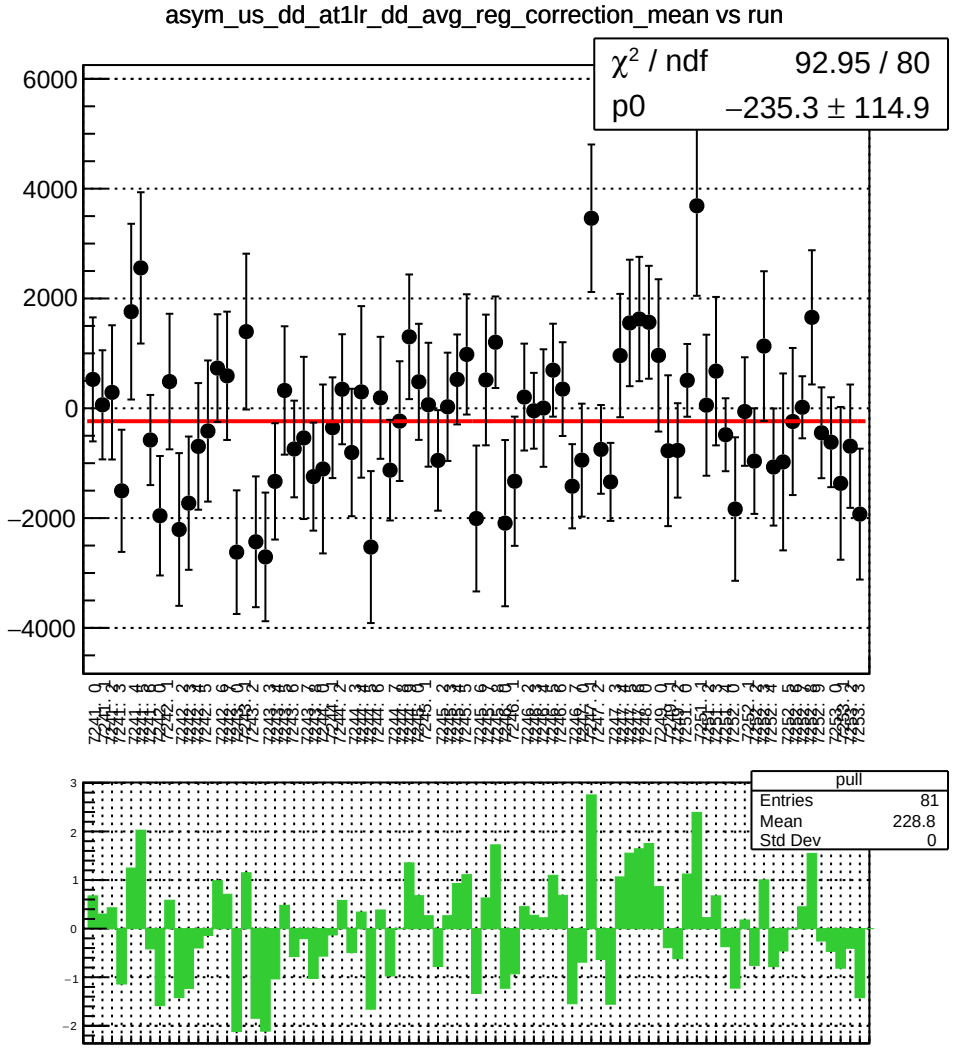

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.44 / 80
p0 9.717e−14 ± 4.537e−14
pull
Entries 81
Mean −3.005
Std Dev 0
pull1D
Entries 81
Mean −0.05594
Std Dev 0.9762

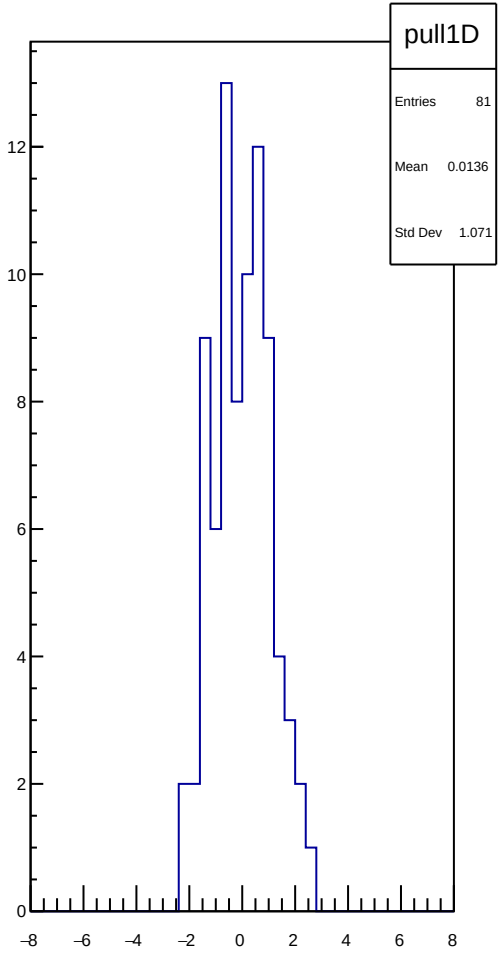

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.68e+05 / 80
p0 3.178e−11 ± 3.208e−14
0.25
0.2
0.15
0.1
0.05

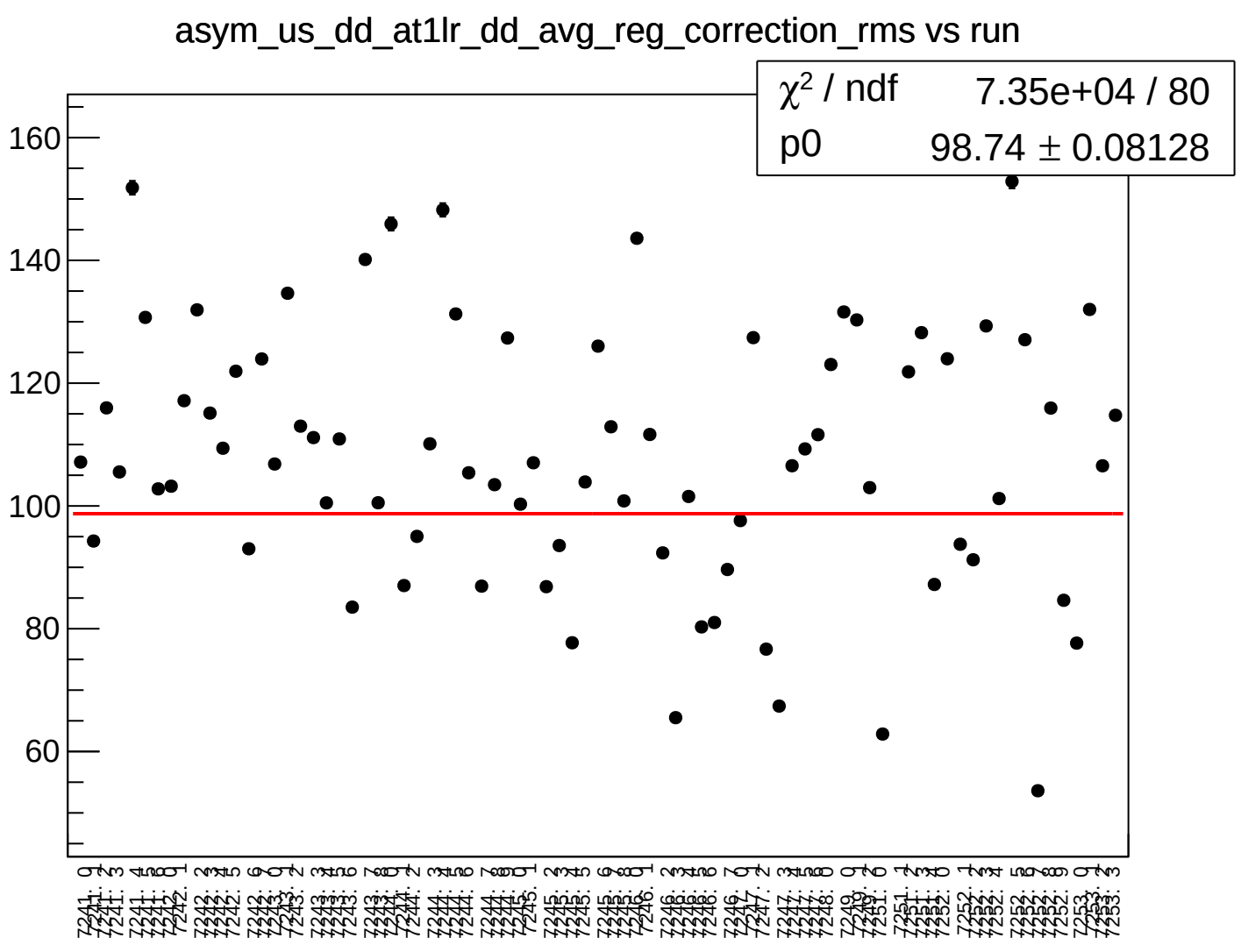

reg_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 69.57 / 80
p0 −2203 ± 2475
pull
Entries 81
Mean −936
Std Dev 0

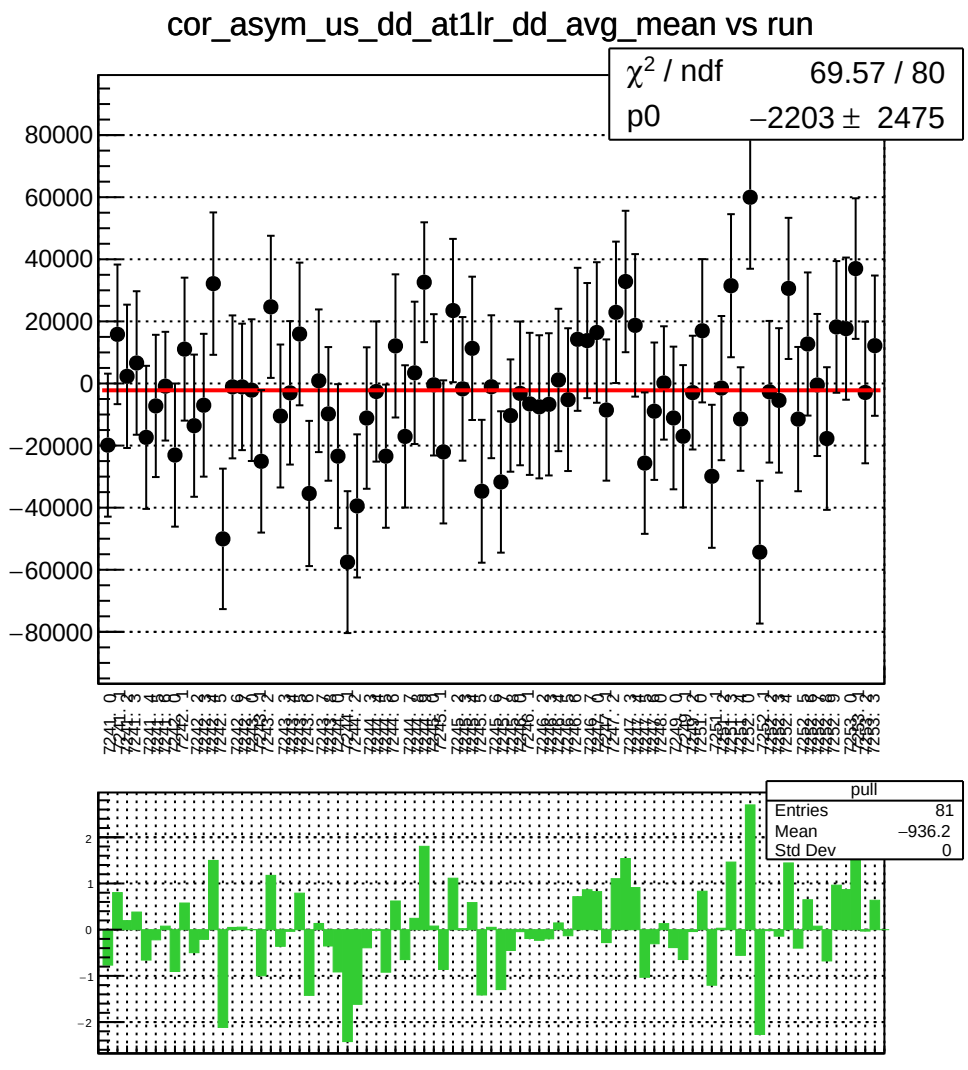

pull1D
Entries 81
Mean −0.004784
Std Dev 0.9267

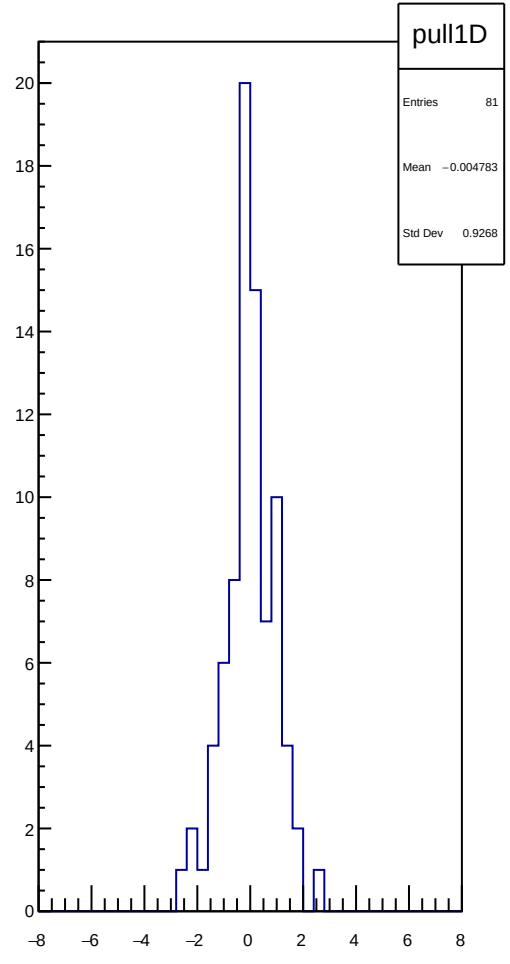

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 73.95 / 80
p0 2178 ± 1.75
2240
2220
2200
2180
2160
2140
2120

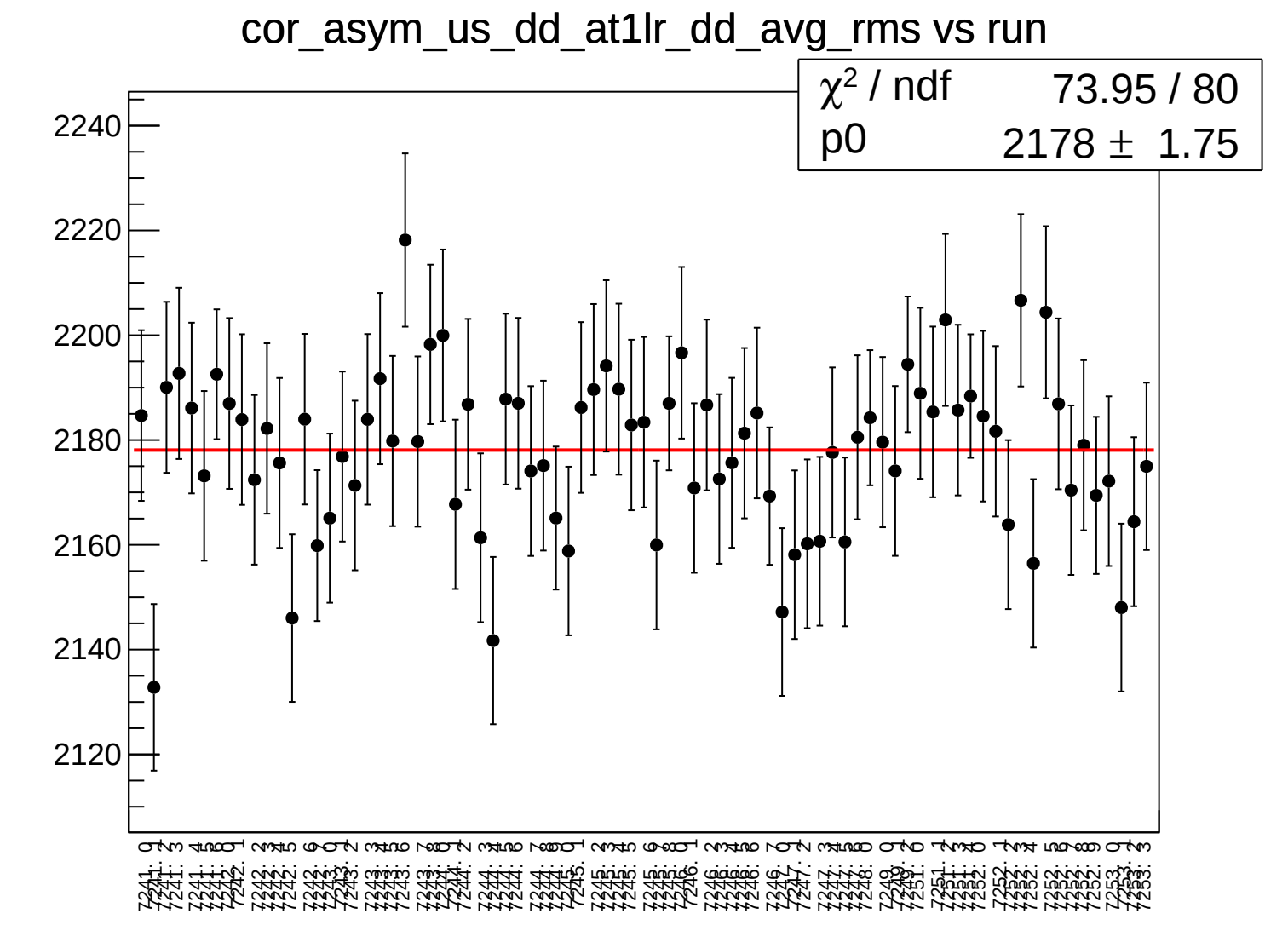

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 92.95 / 80
p0 −235.3 ± 114.9
pull
Entries 81
Mean 228.8
Std Dev 0

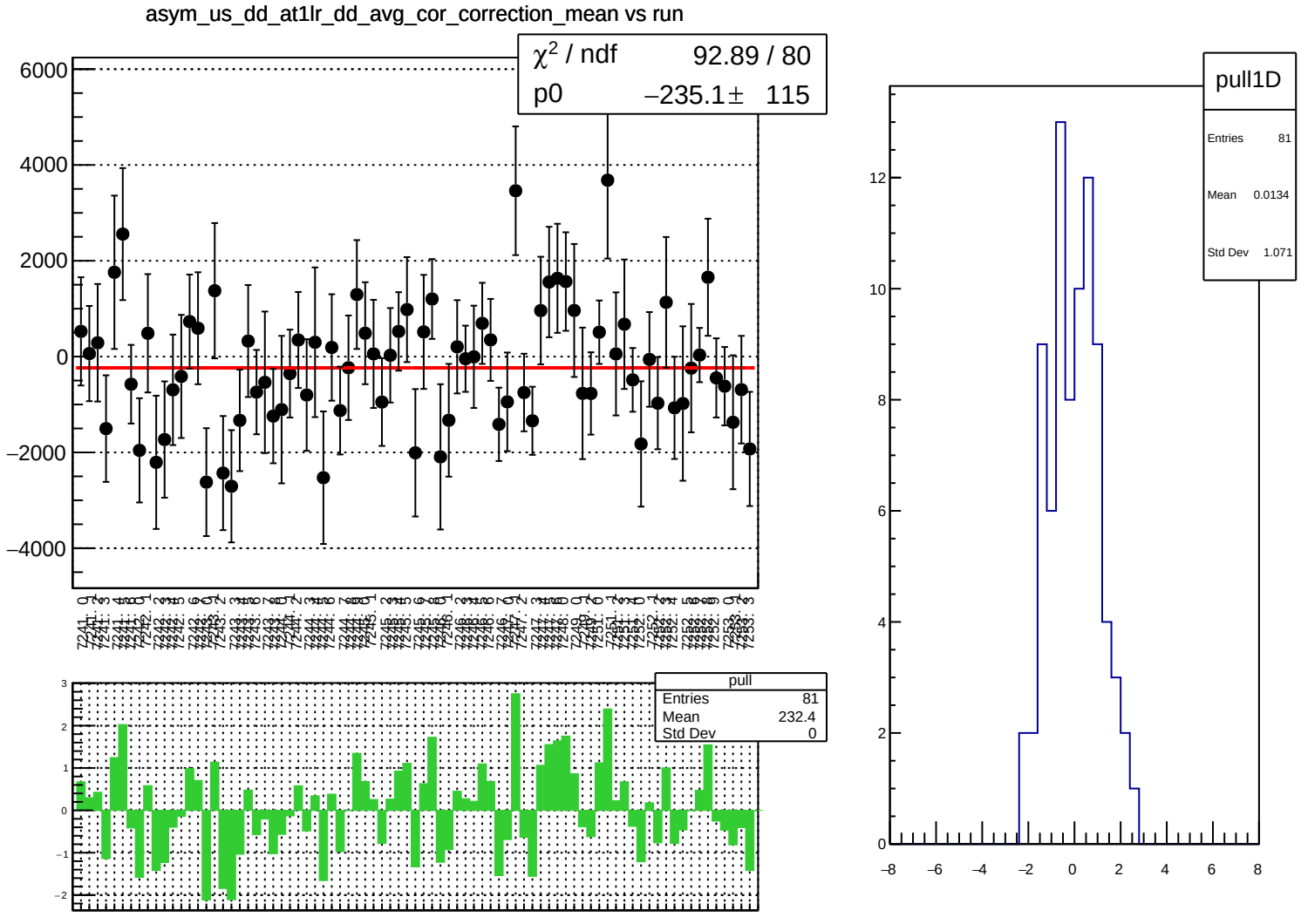

pull1D
Entries 81
Mean 0.0136
Std Dev 1.071

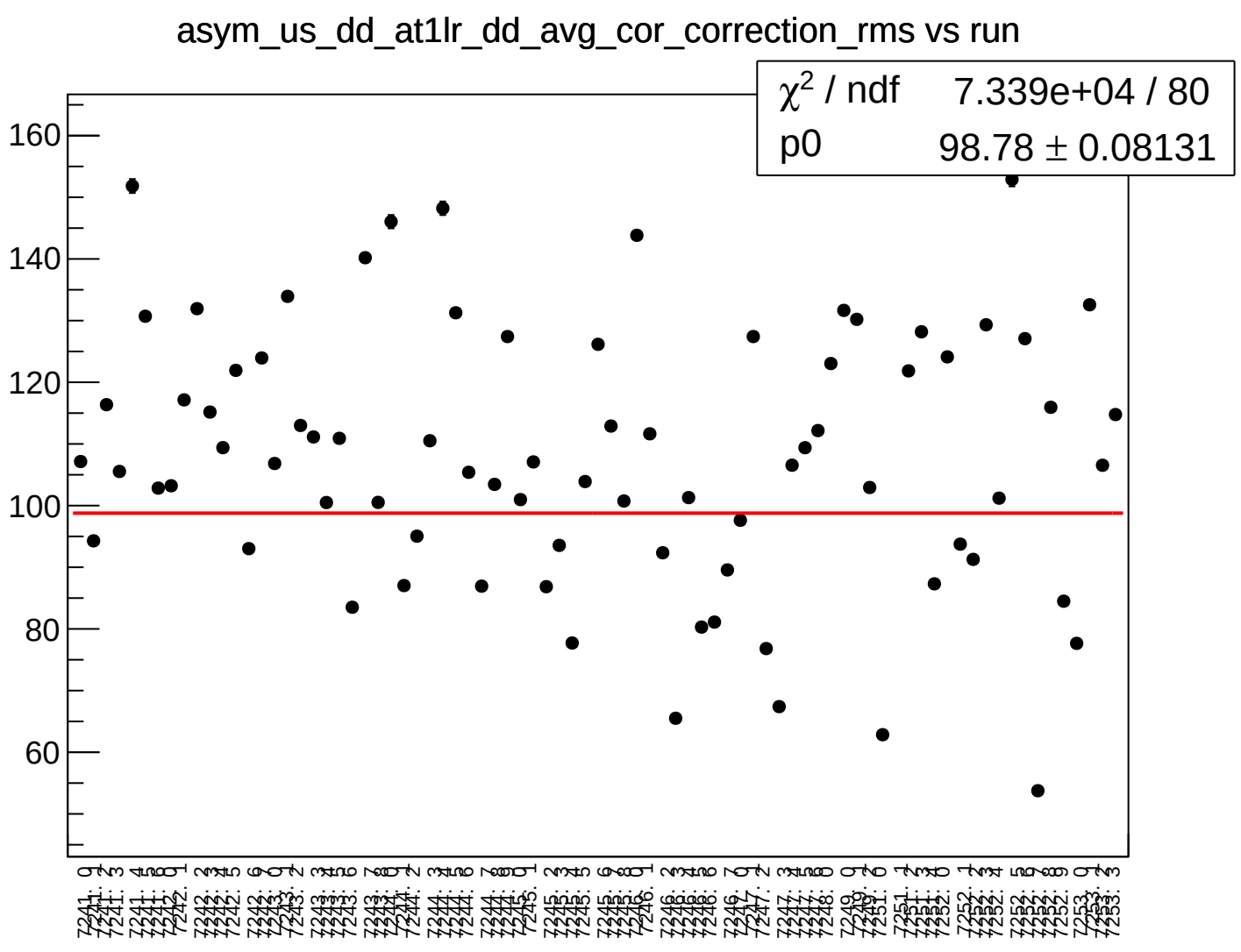

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 7.35e+04 / 80
p0 98.74 ± 0.08128
160
140
120
100
80
60

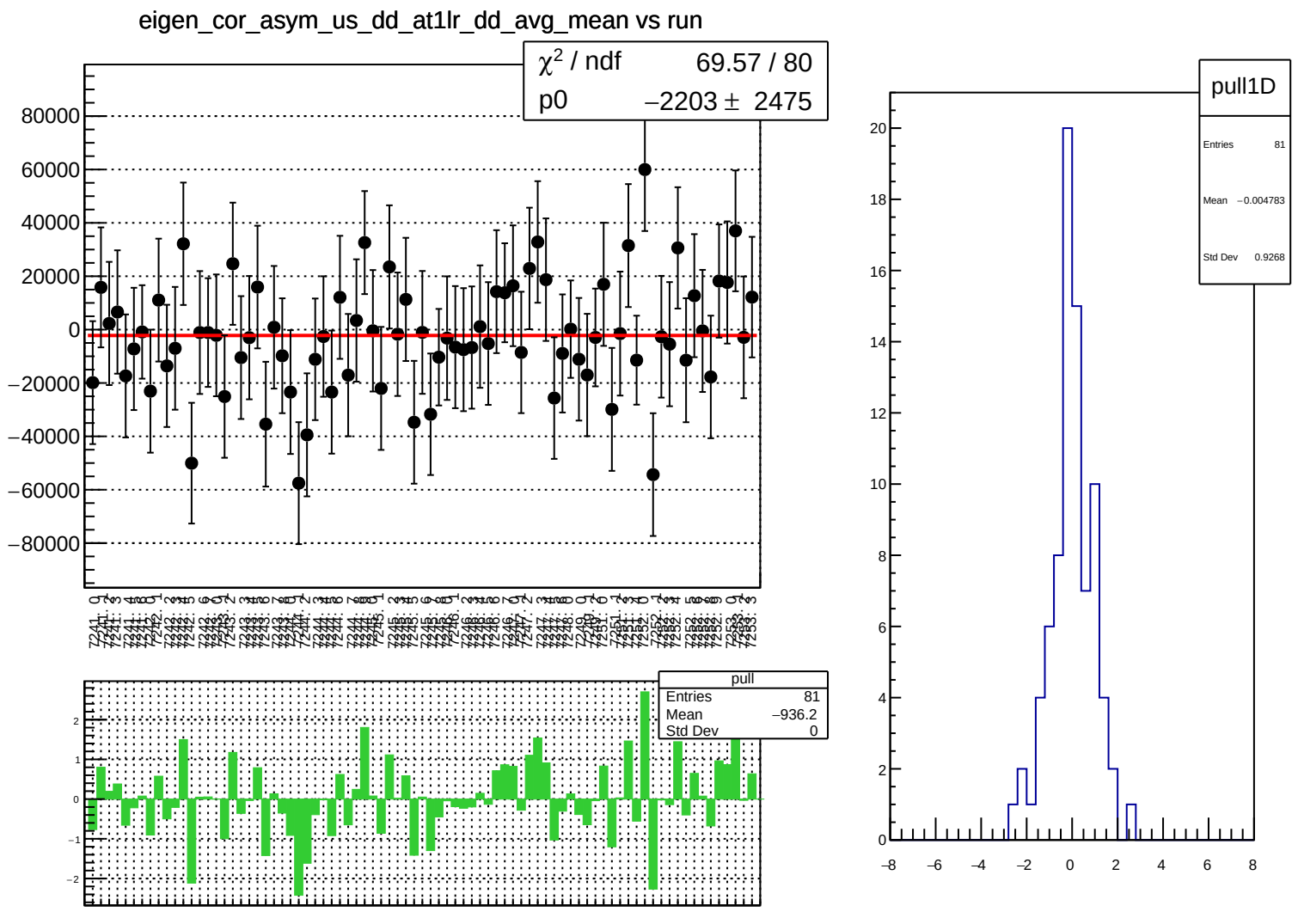

cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 69.57 / 80
p0 −2203 ± 2475
pull
Entries 81
Mean −936.2
Std Dev 0

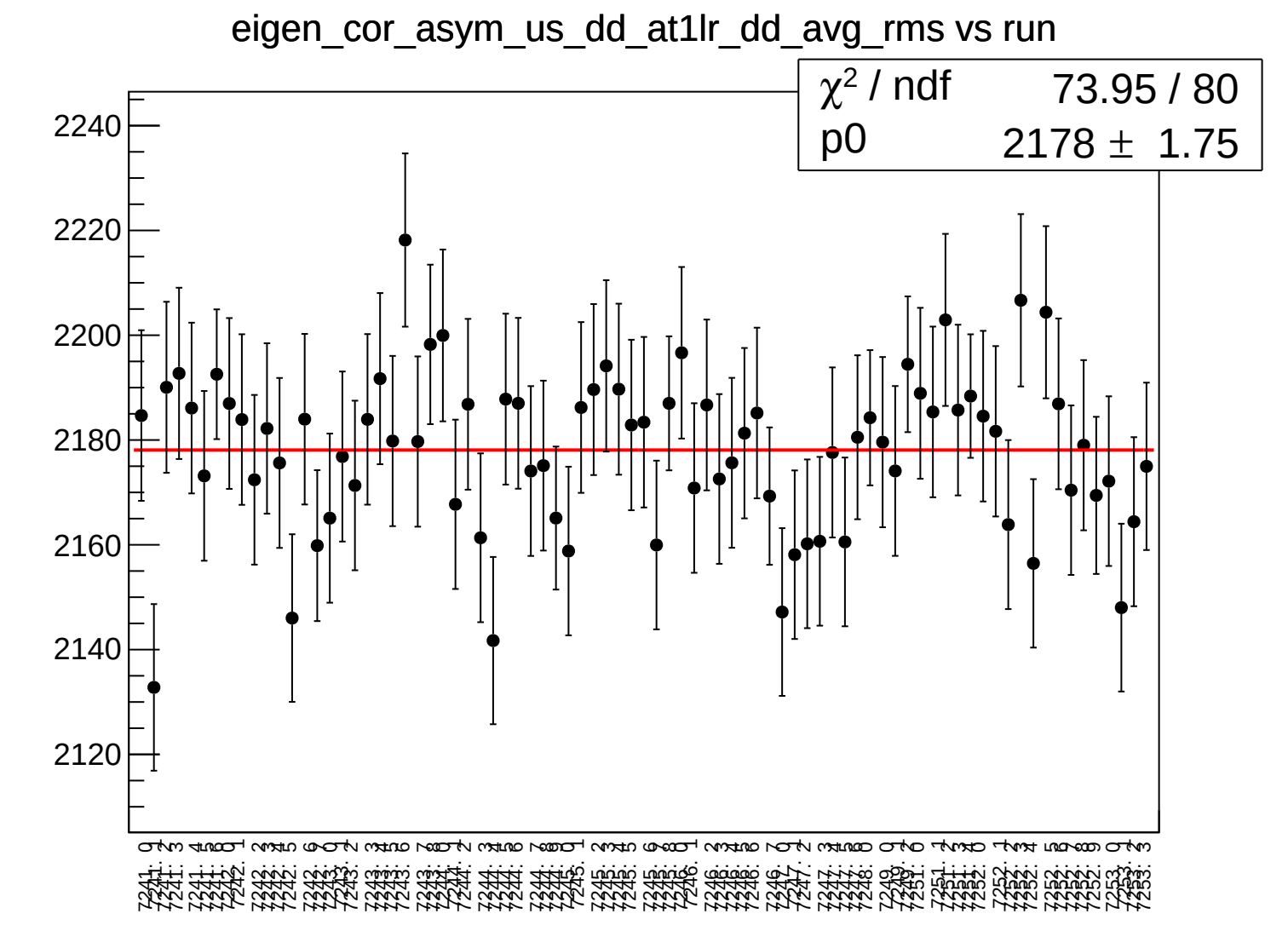

pull1D
Entries 81
Mean −0.004783
Std Dev 0.9268

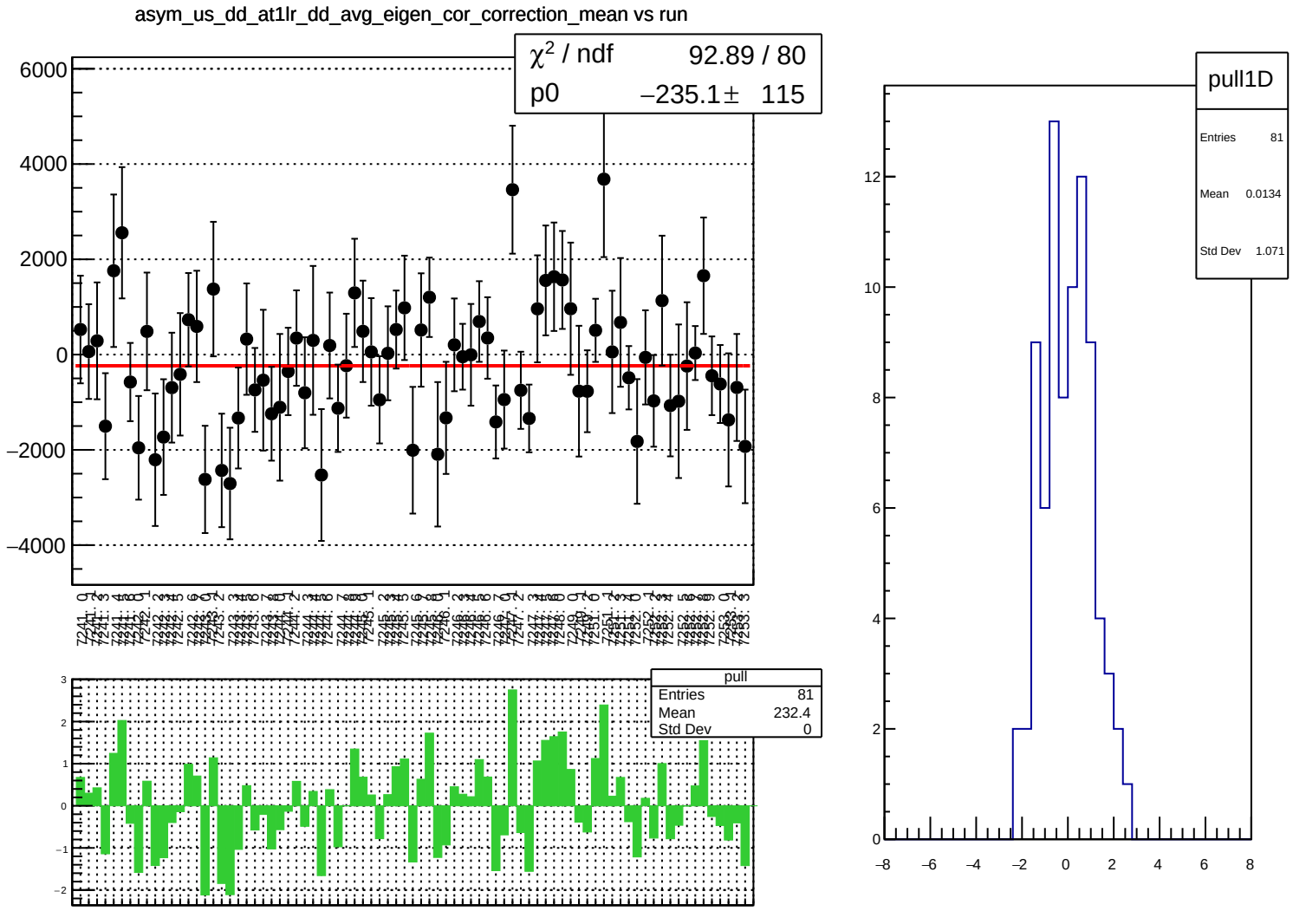

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 73.95 / 80
p0 2178 ± 1.75
2240
2220
2200
2180
2160
2140
2120

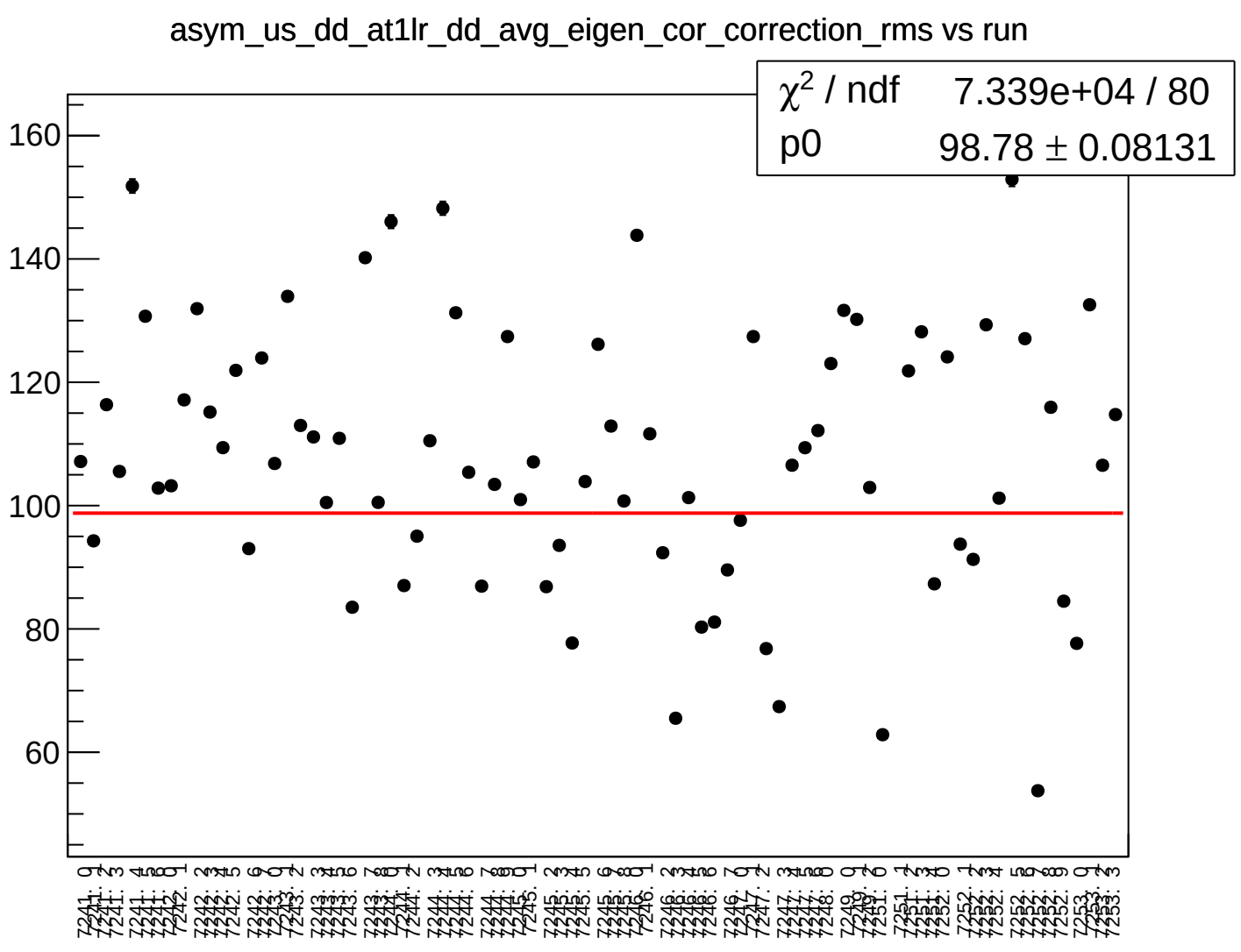

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 92.89 / 80
p0 −235.1± 115
pull
Entries 81
Mean 232.4
Std Dev 0
pull1D
Entries 81
Mean 0.0134
Std Dev 1.071

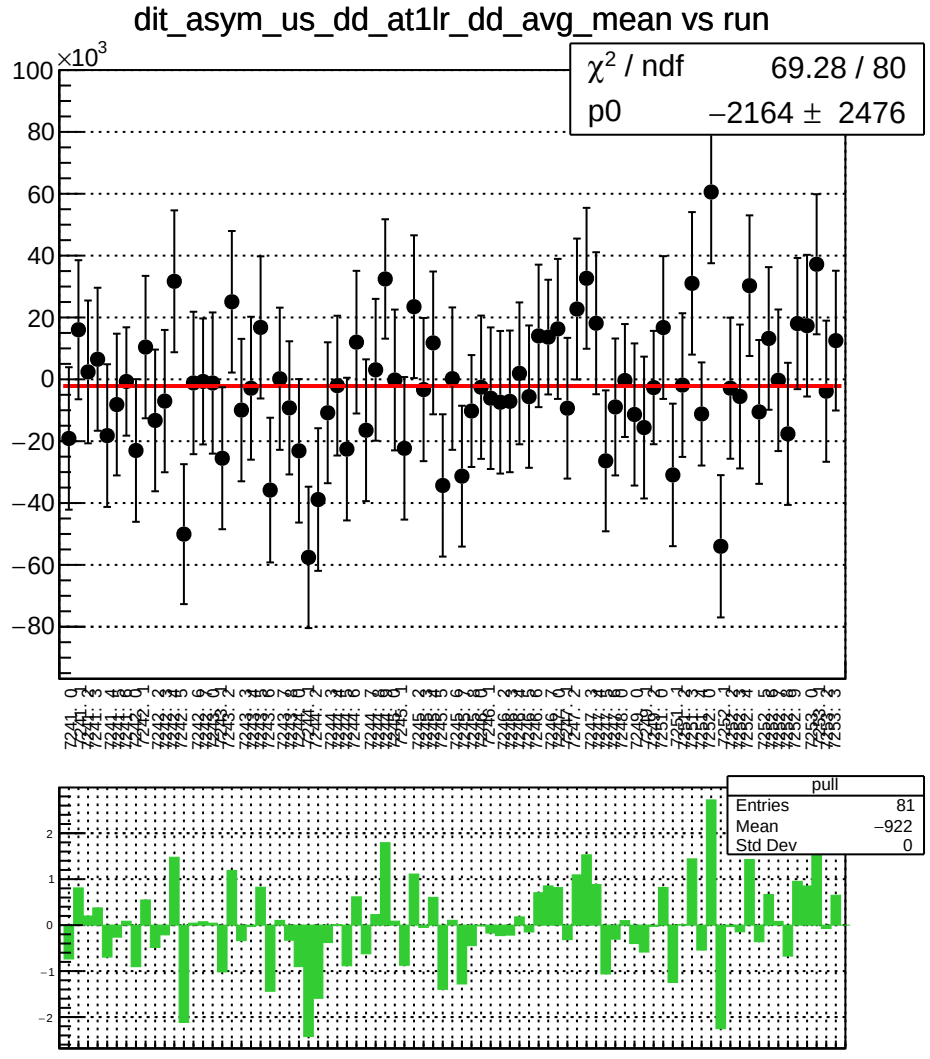

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ² / ndf 7.339e+04 / 80
p0 98.78 ± 0.08131
160
140
120
100
80
60

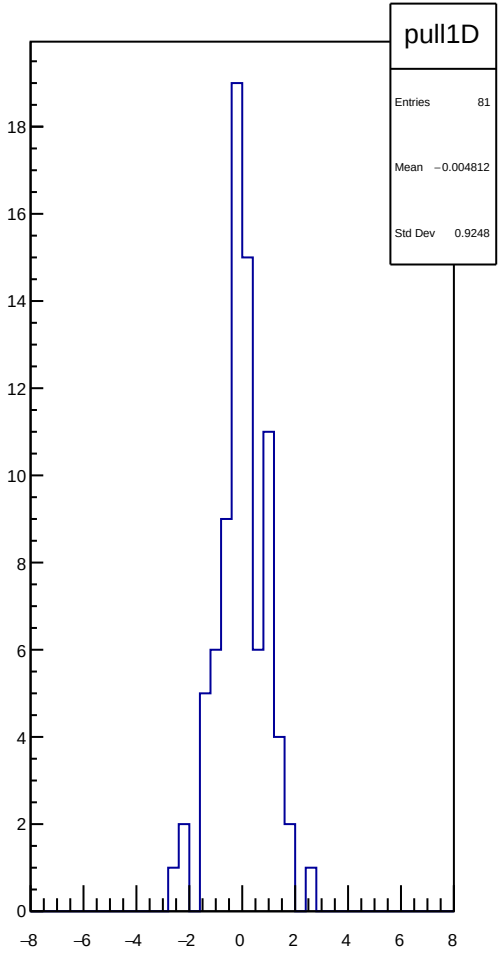

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 69.57 / 80
p0 −2203 ± 2475
pull
Entries 81
Mean −936.2
Std Dev 0
pull1D
Entries 81
Mean −0.004783
Std Dev 0.9268

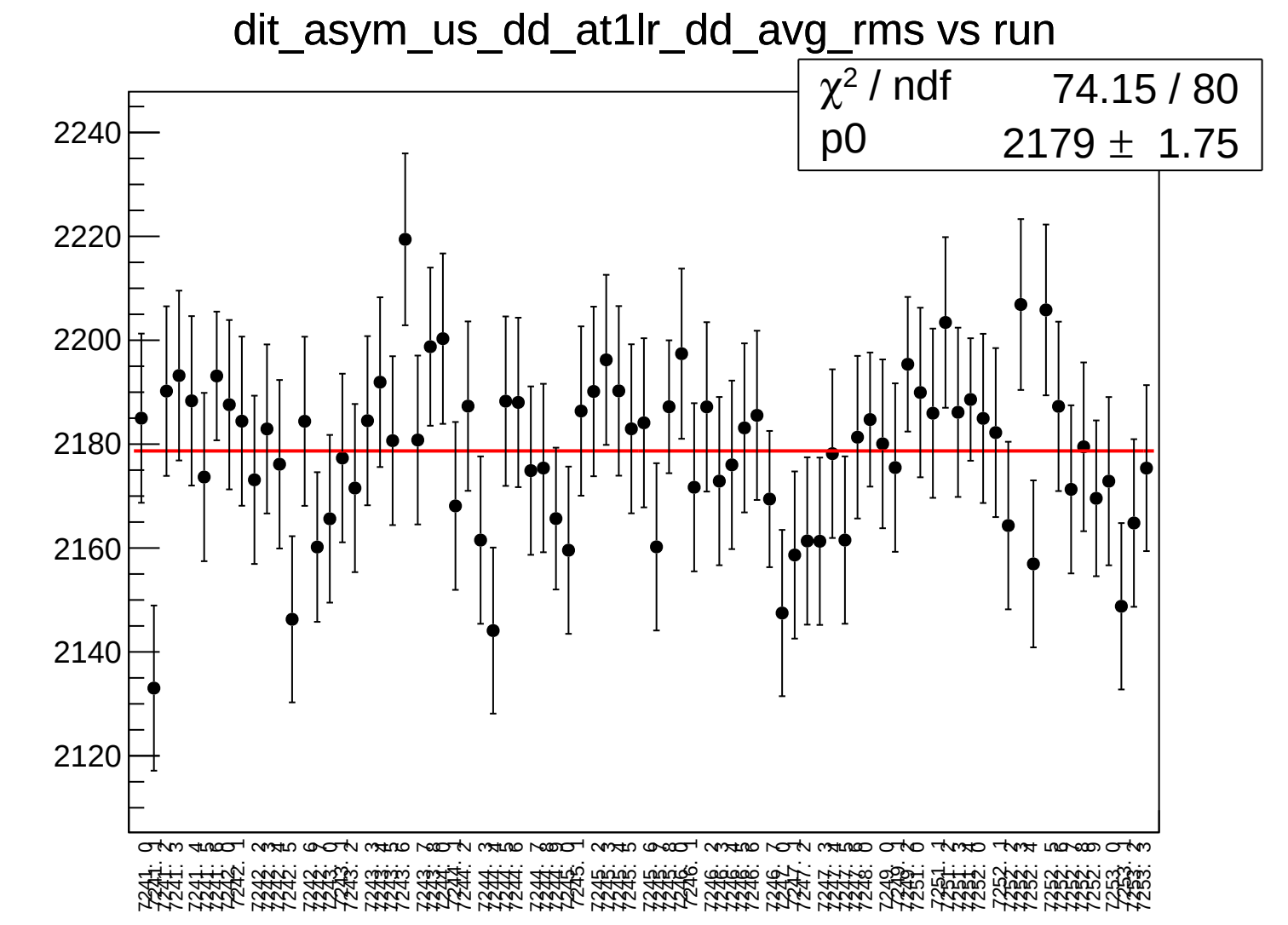

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 73.95 / 80
p0 2178 ± 1.75
2240
2220
2200
2180
2160
2140
2120

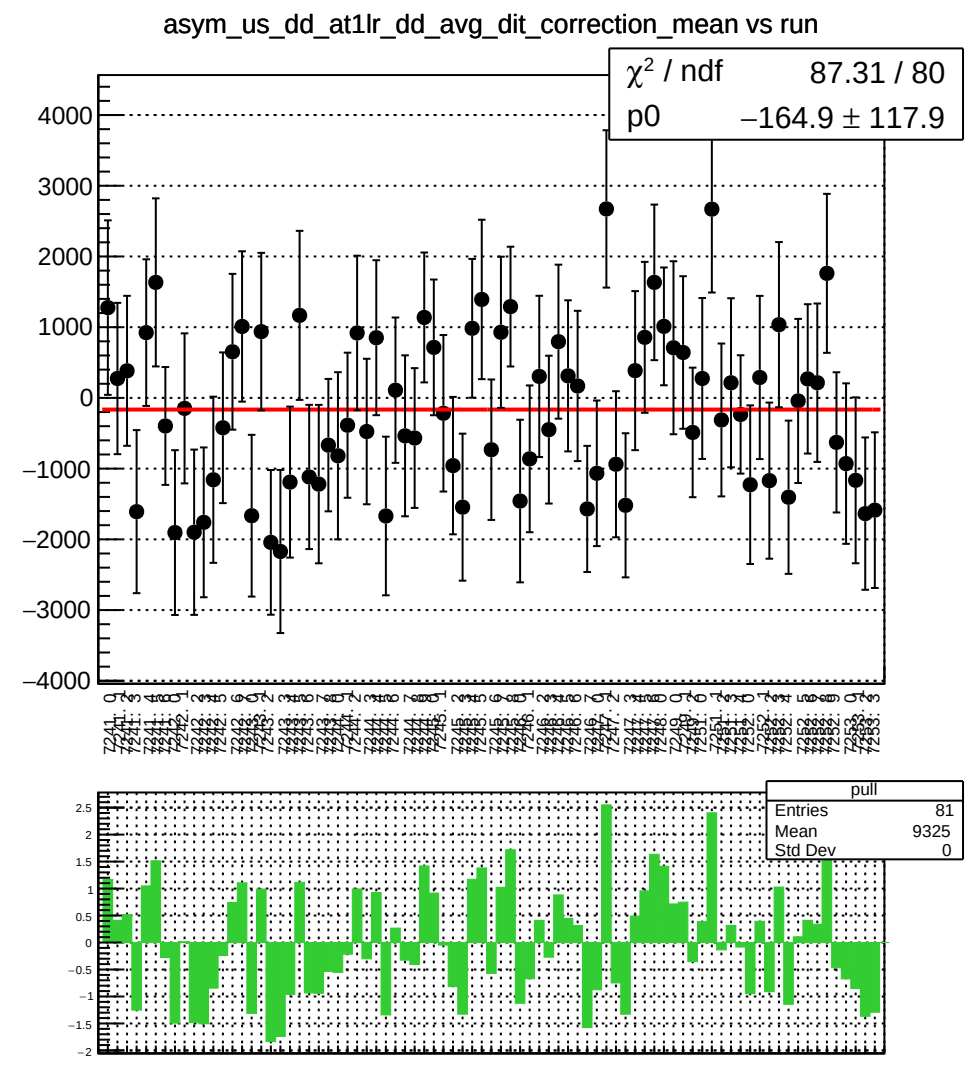

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 92.89 / 80
p0 −235.1± 115
6000
4000
2000
0
−2000
−4000
pull
Entries 81
Mean 232.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 81
Mean 0.0134
Std Dev 1.071
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

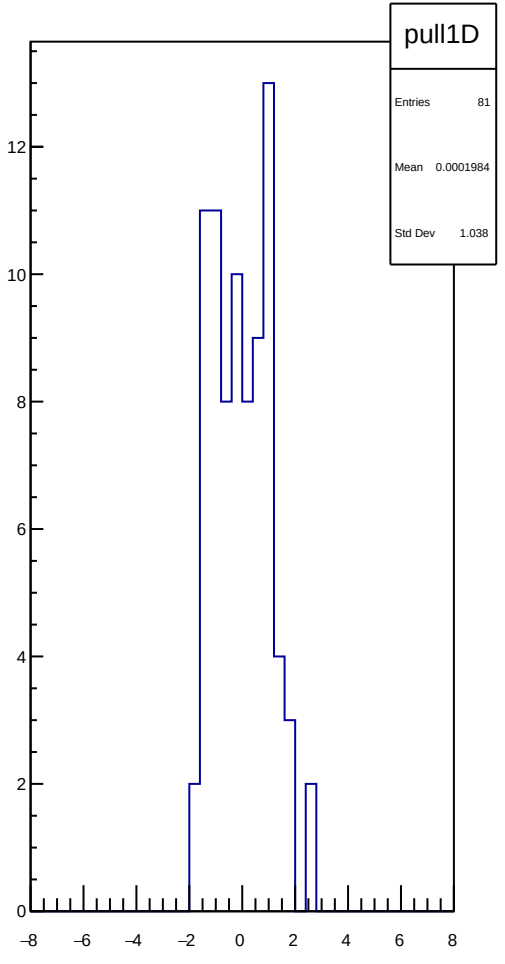

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 7.339e+04 / 80
p0 98.78 ± 0.08131
160
140
120
100
80
60

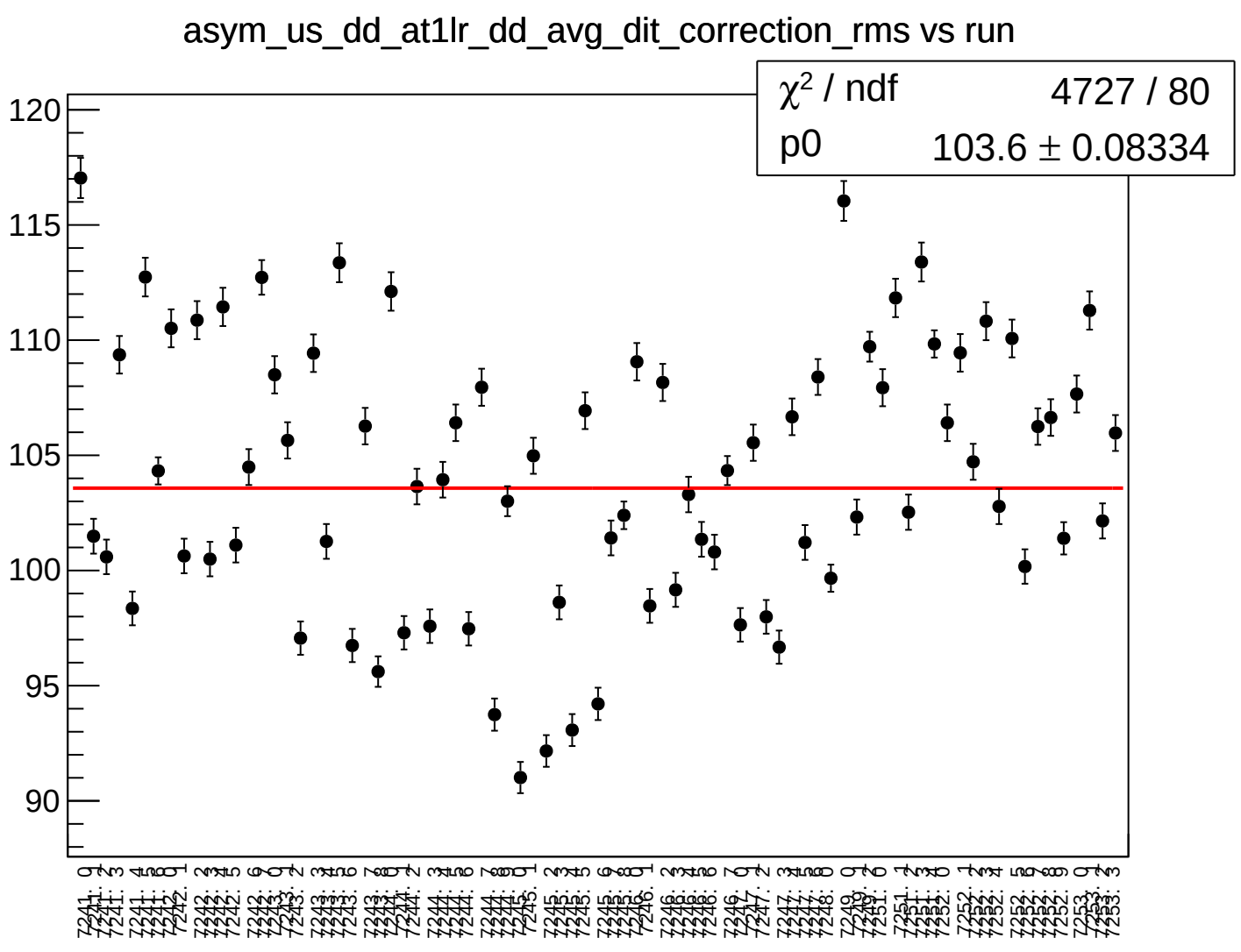

dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 69.28 / 80
p0 −2164 ± 2476
×10³
pull
Entries 81
Mean −922
Std Dev 0

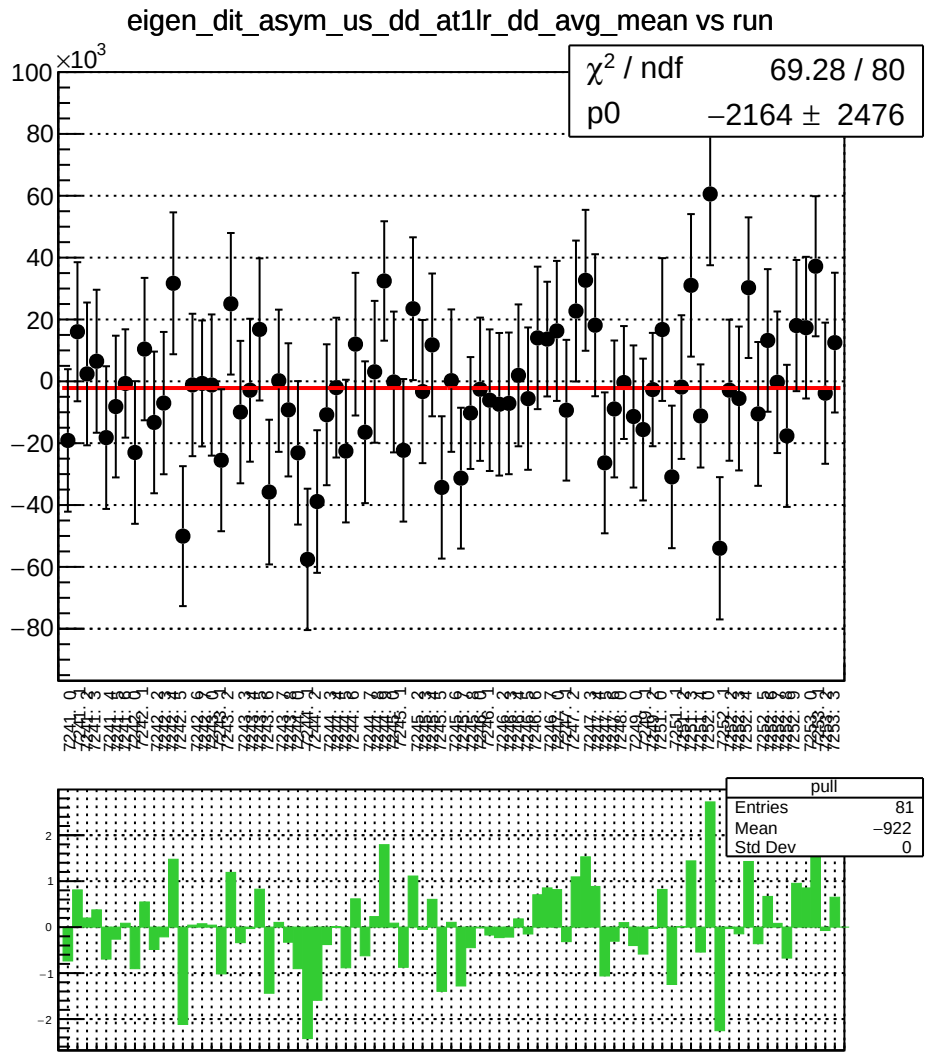

pull1D
Entries 81
Mean −0.004812
Std Dev 0.9248

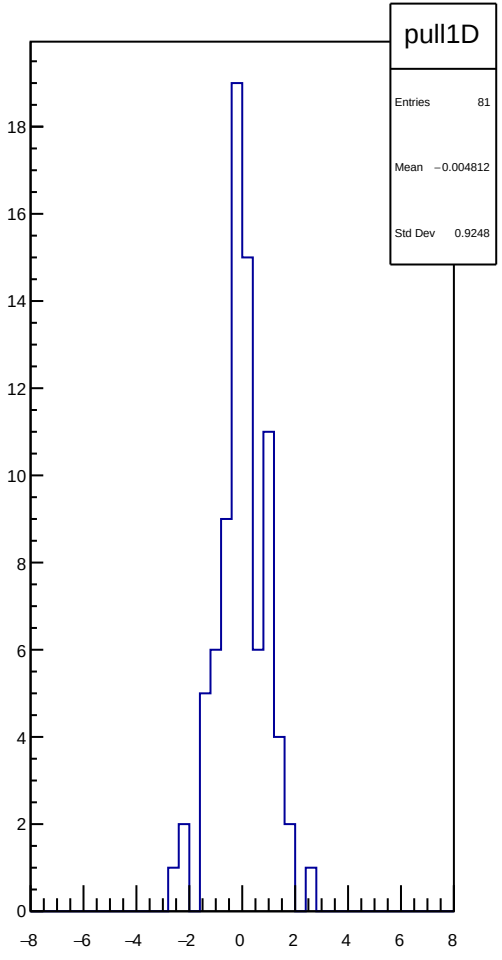

dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 74.15 / 80
p0 2179 ± 1.75
2240
2220
2200
2180
2160
2140
2120

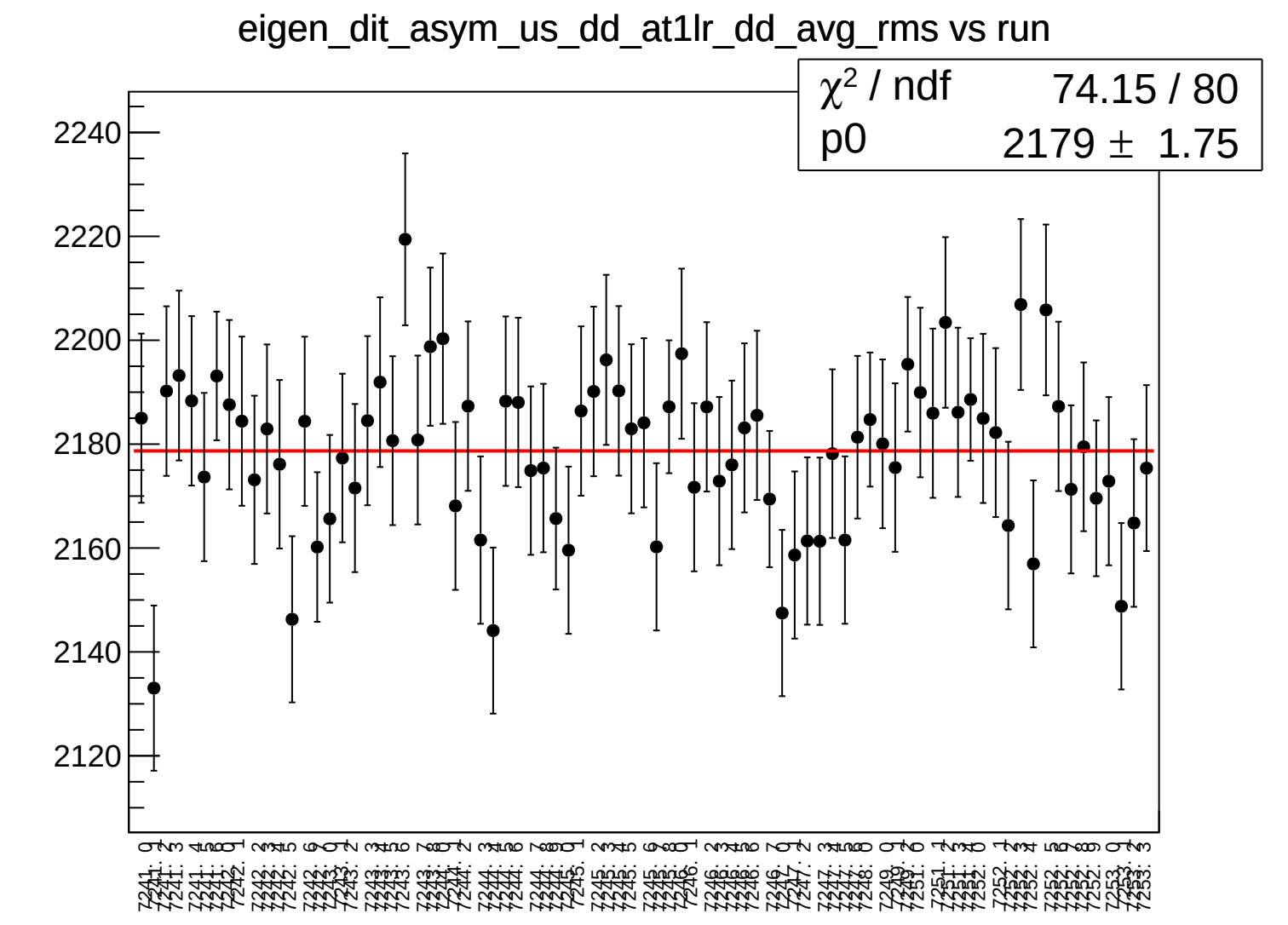

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 87.31 / 80
p0 −164.9 ± 117.9
pull
Entries 81
Mean 9325
Std Dev 0

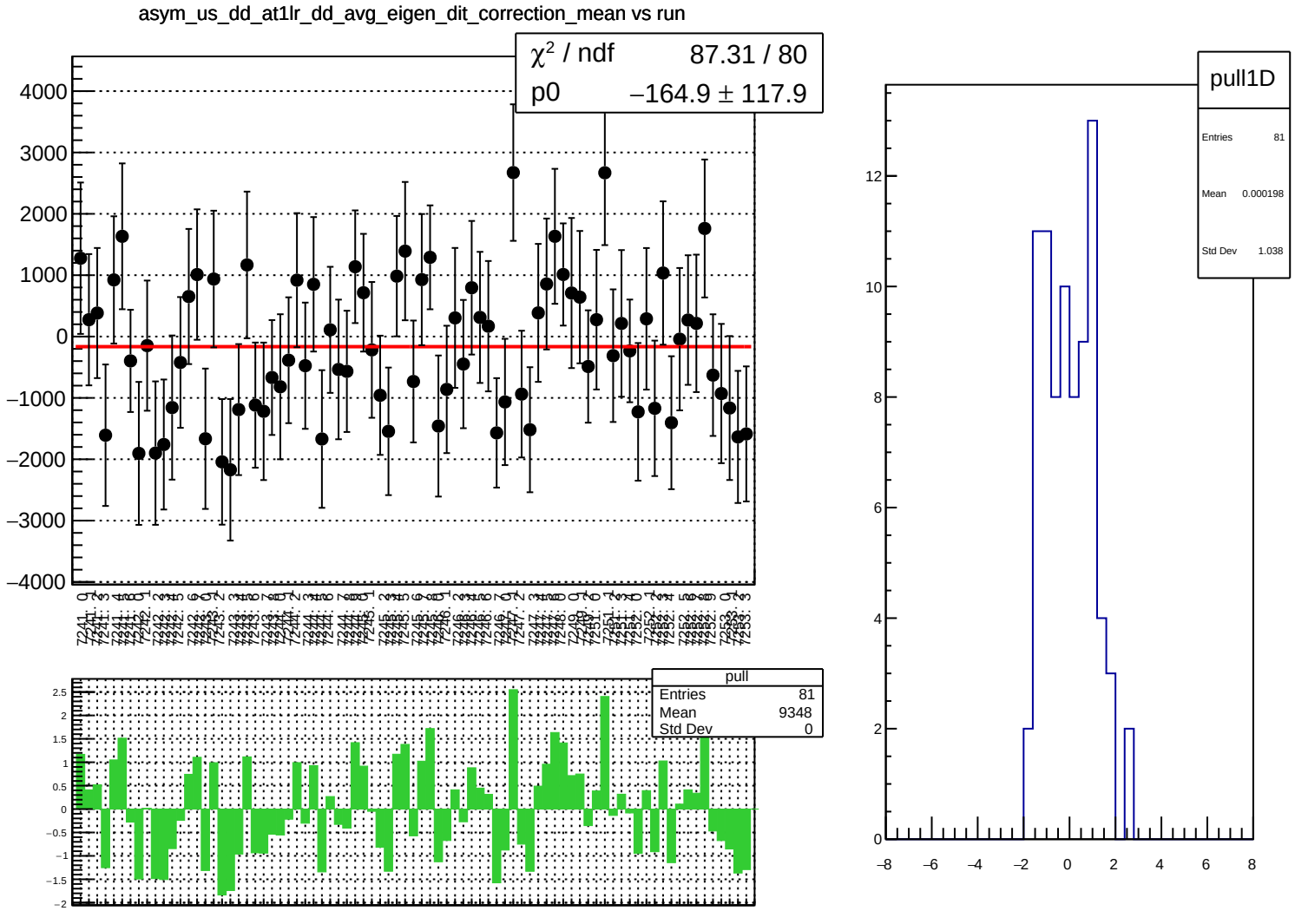

pull1D
Entries 81
Mean 0.0001984
Std Dev 1.038

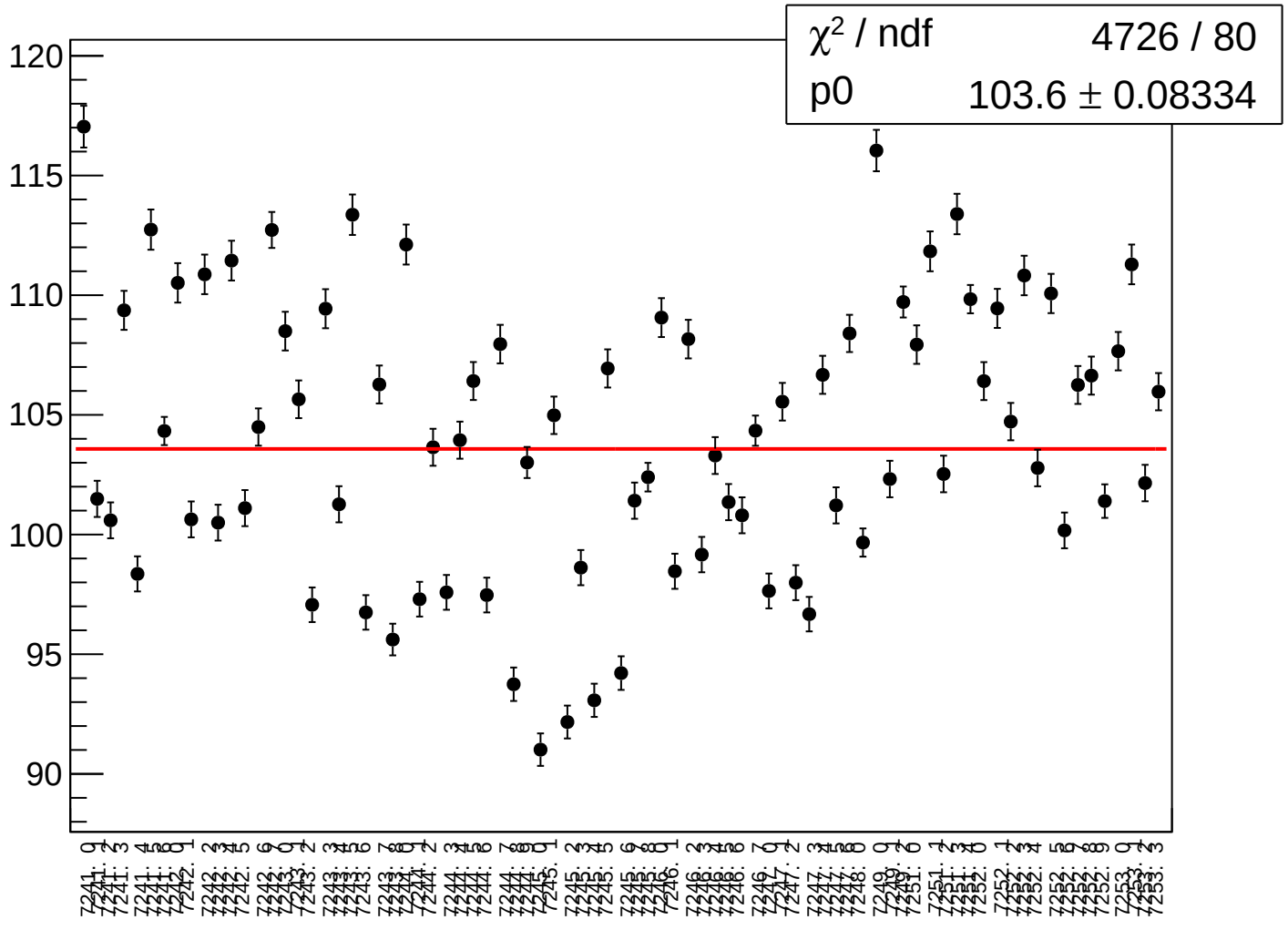

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 4727 / 80
p0 103.6 ± 0.08334
120
115
110
105
100
95
90

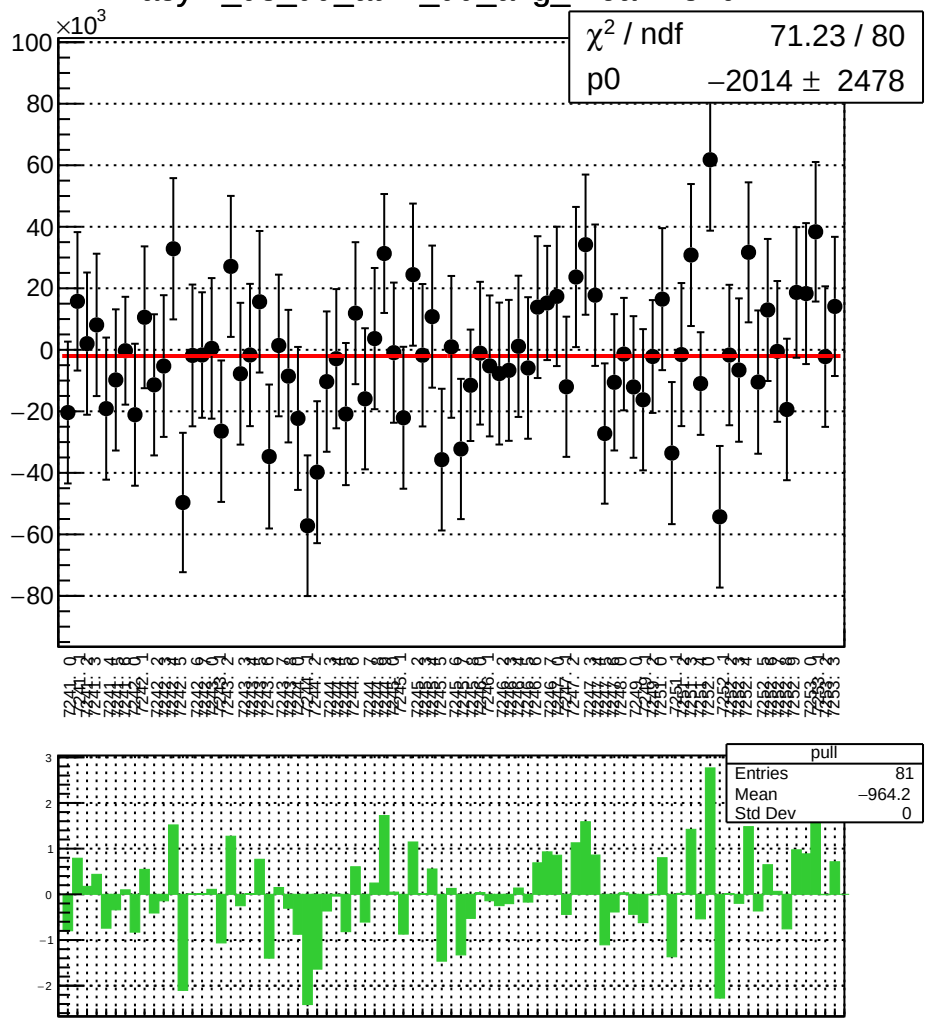

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 69.28 / 80
p0 −2164 ± 2476
×10³
pull
Entries 81
Mean −922
Std Dev 0

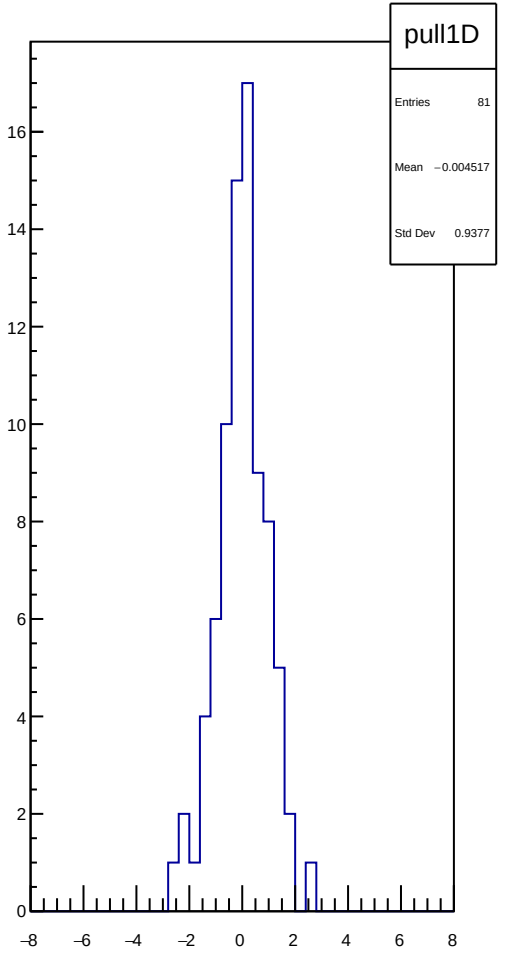

pull1D
Entries 81
Mean −0.004812
Std Dev 0.9248

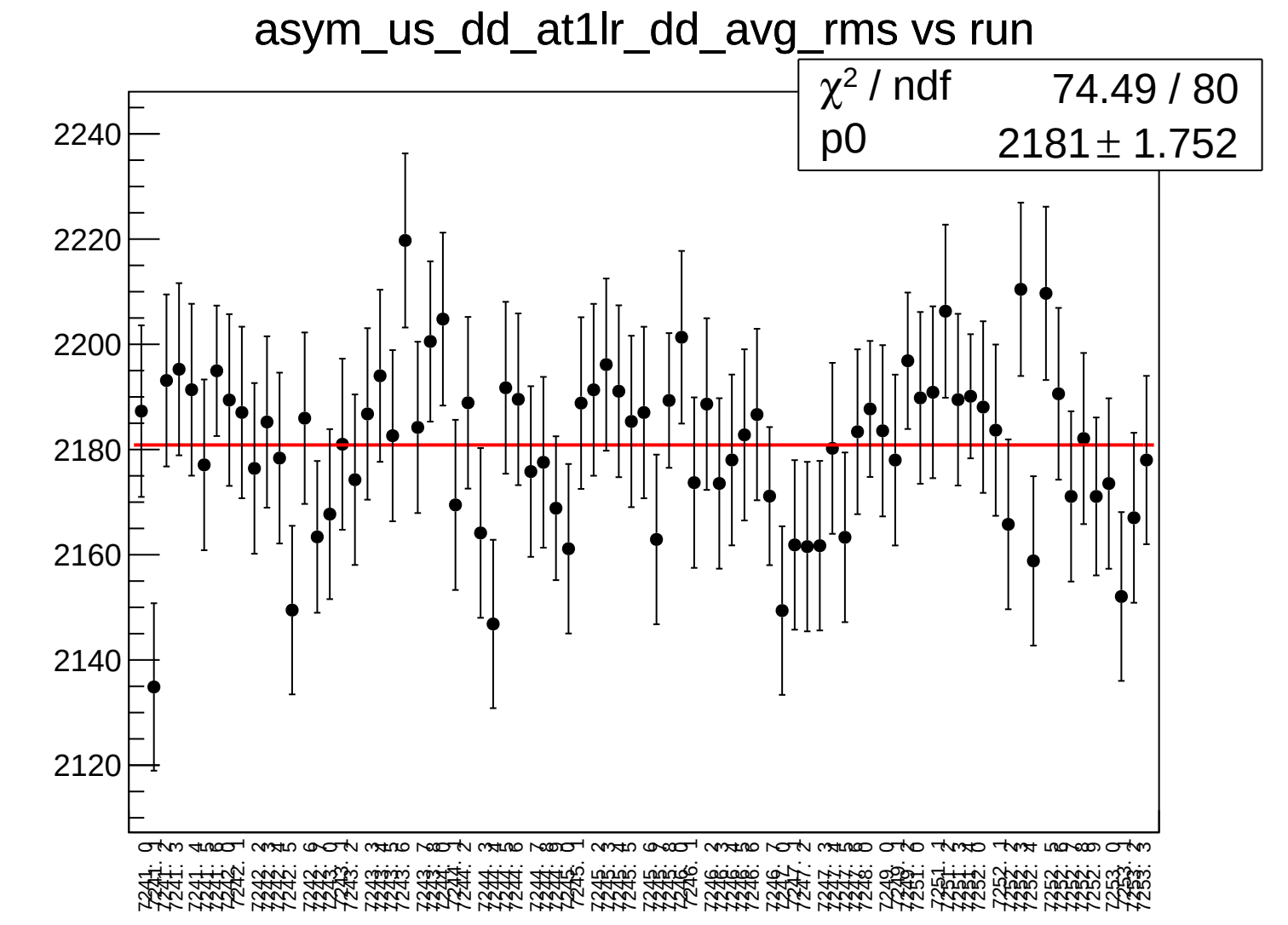

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 74.15 / 80
p0 2179 ± 1.75
2240
2220
2200
2180
2160
2140
2120

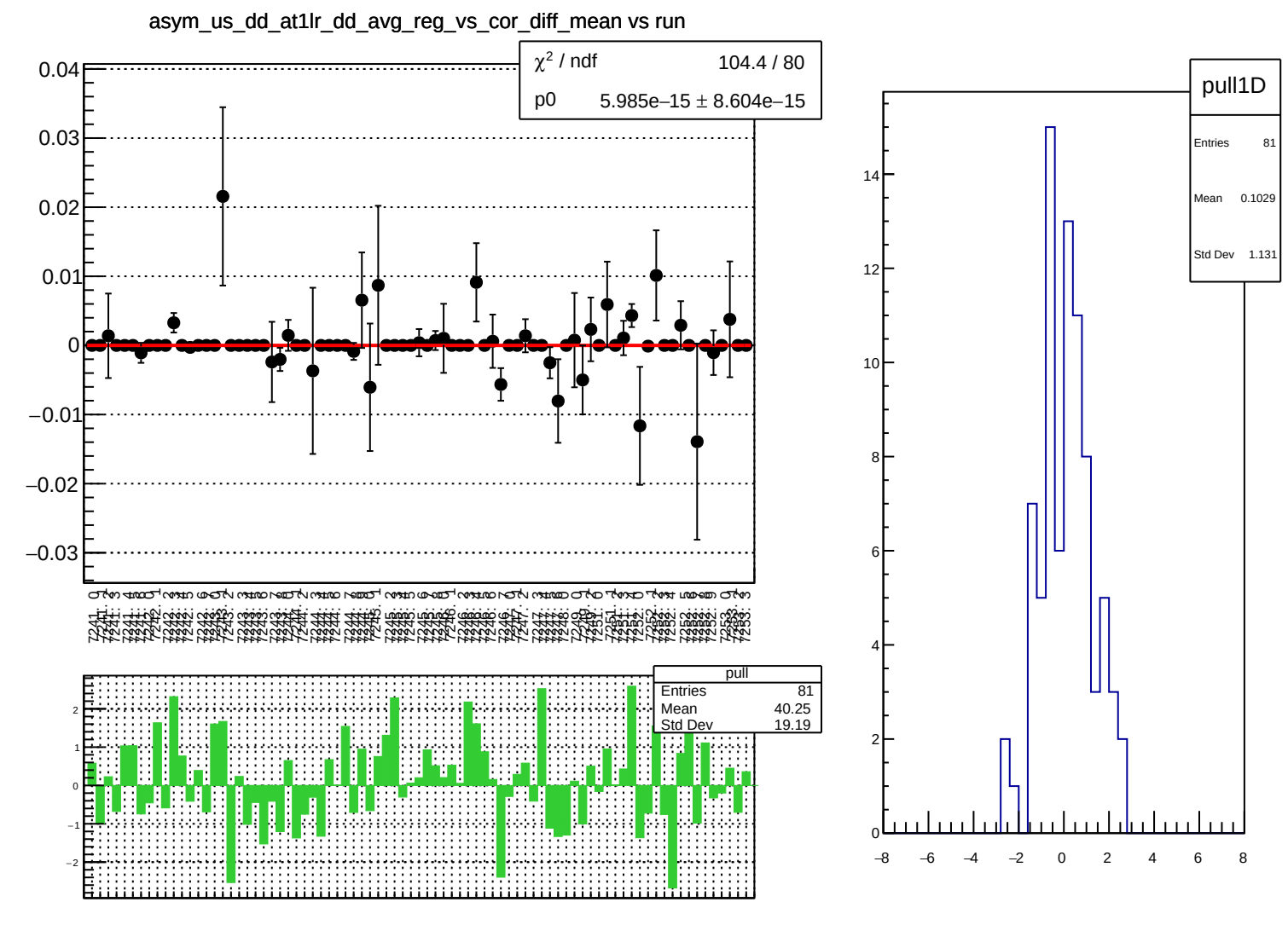

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 87.31 / 80
p0 −164.9 ± 117.9
pull
Entries 81
Mean 9348
Std Dev 0
pull1D
Entries 81
Mean 0.000198
Std Dev 1.038

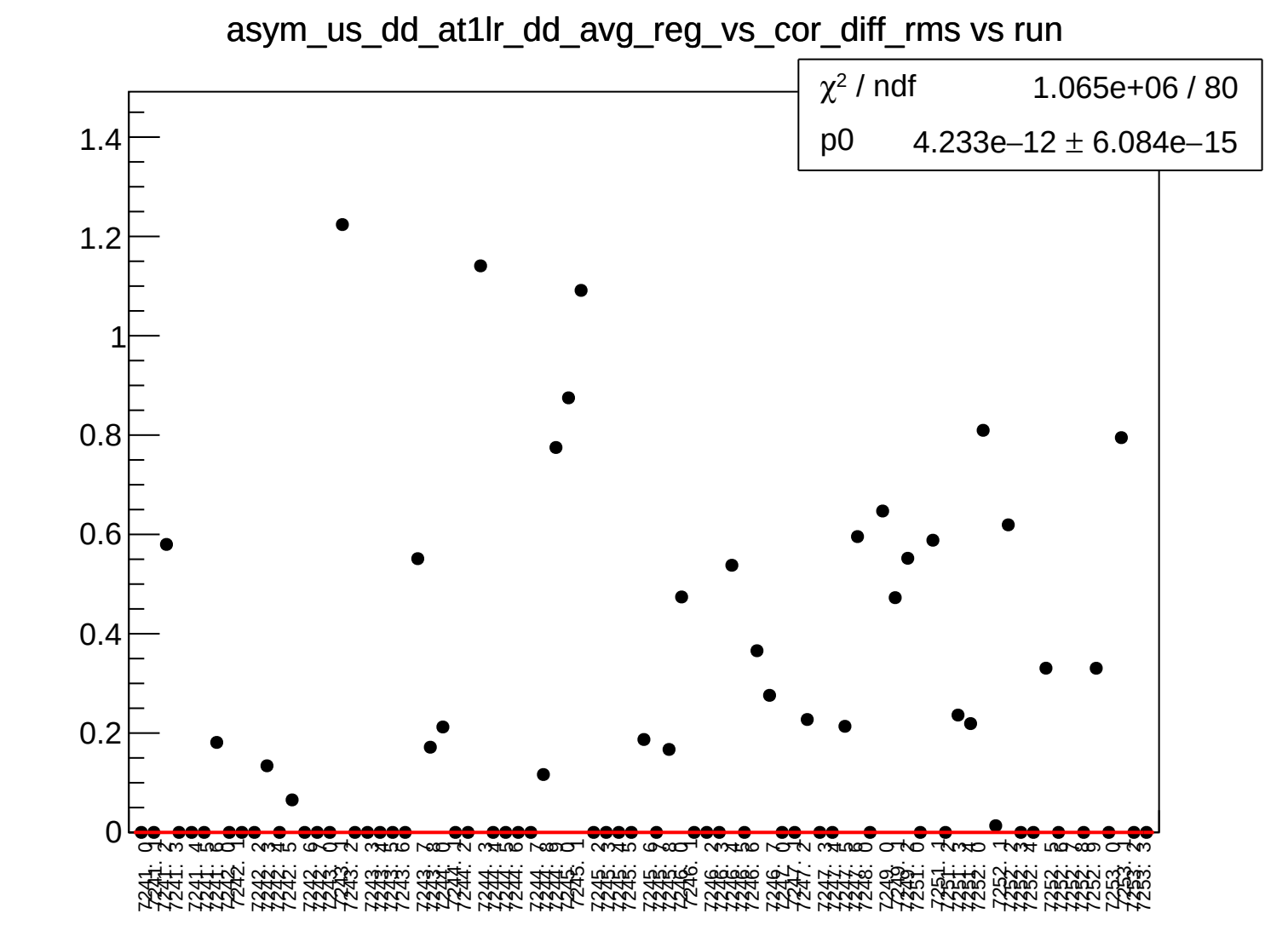

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 4726 / 80
p0 103.6 ± 0.08334
120
115
110
105
100
95
90

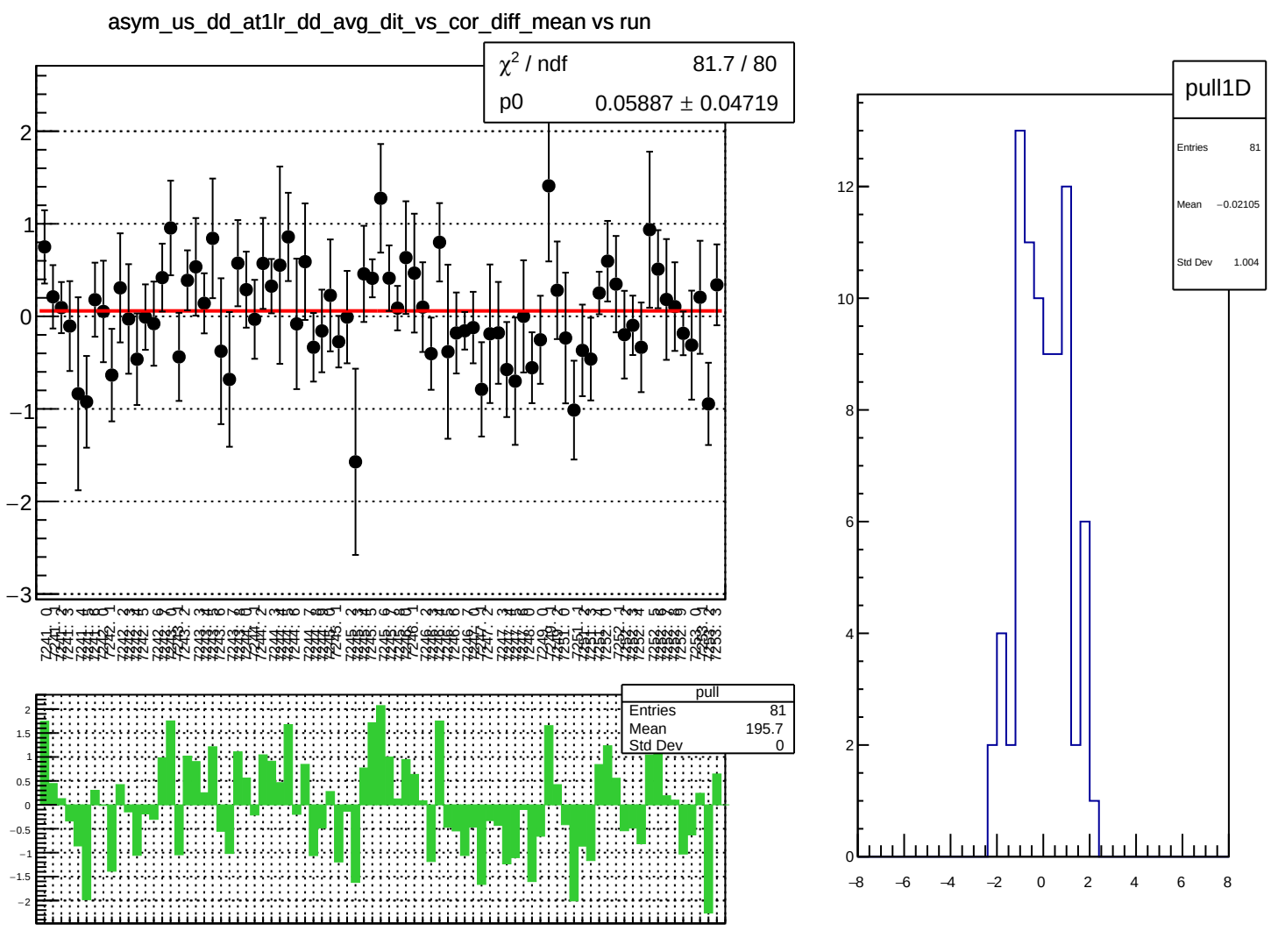

asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 71.23 / 80
p0 −2014 ± 2478
pull
Entries 81
Mean −964.2
Std Dev 0

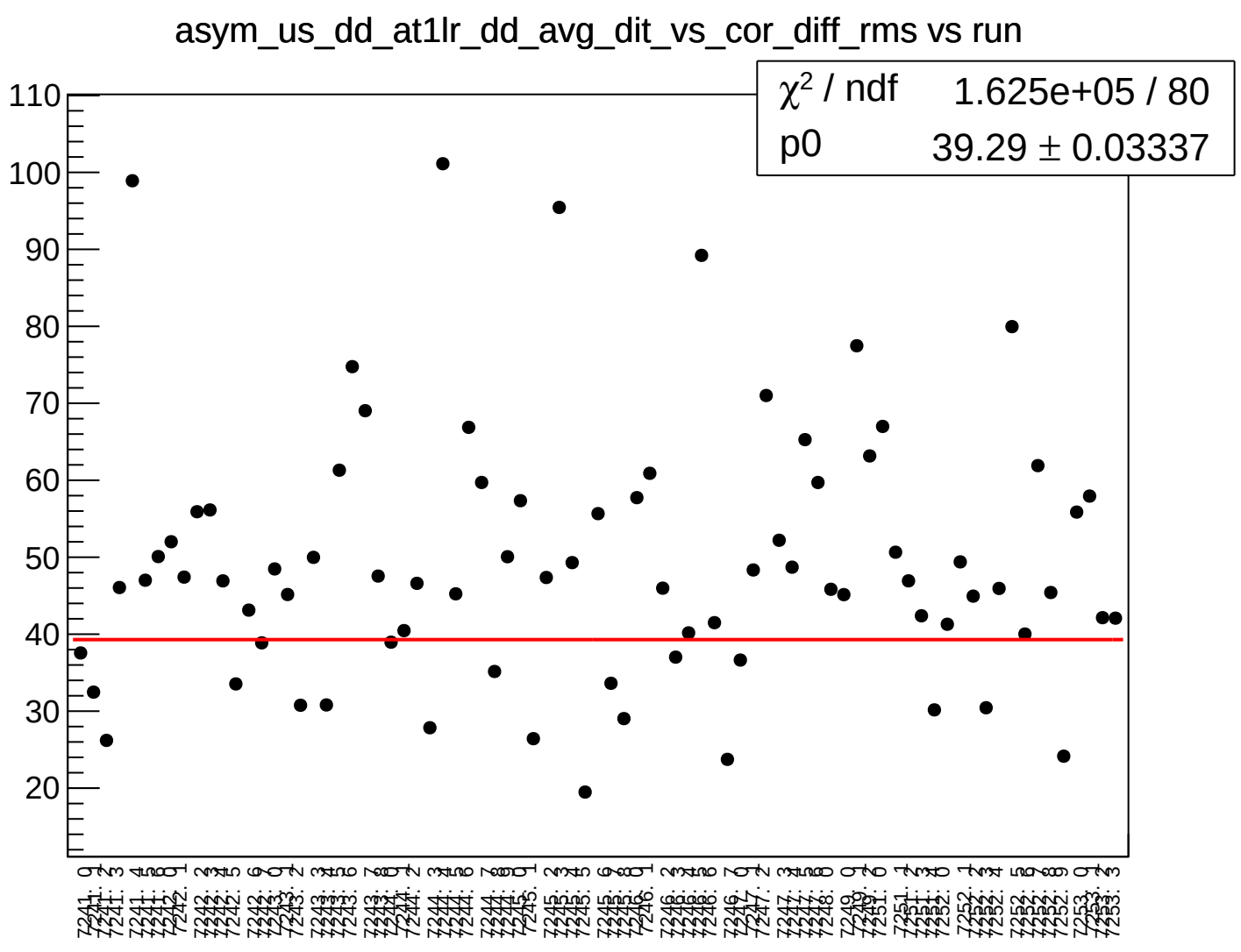

pull1D
Entries 81
Mean −0.004517
Std Dev 0.9377

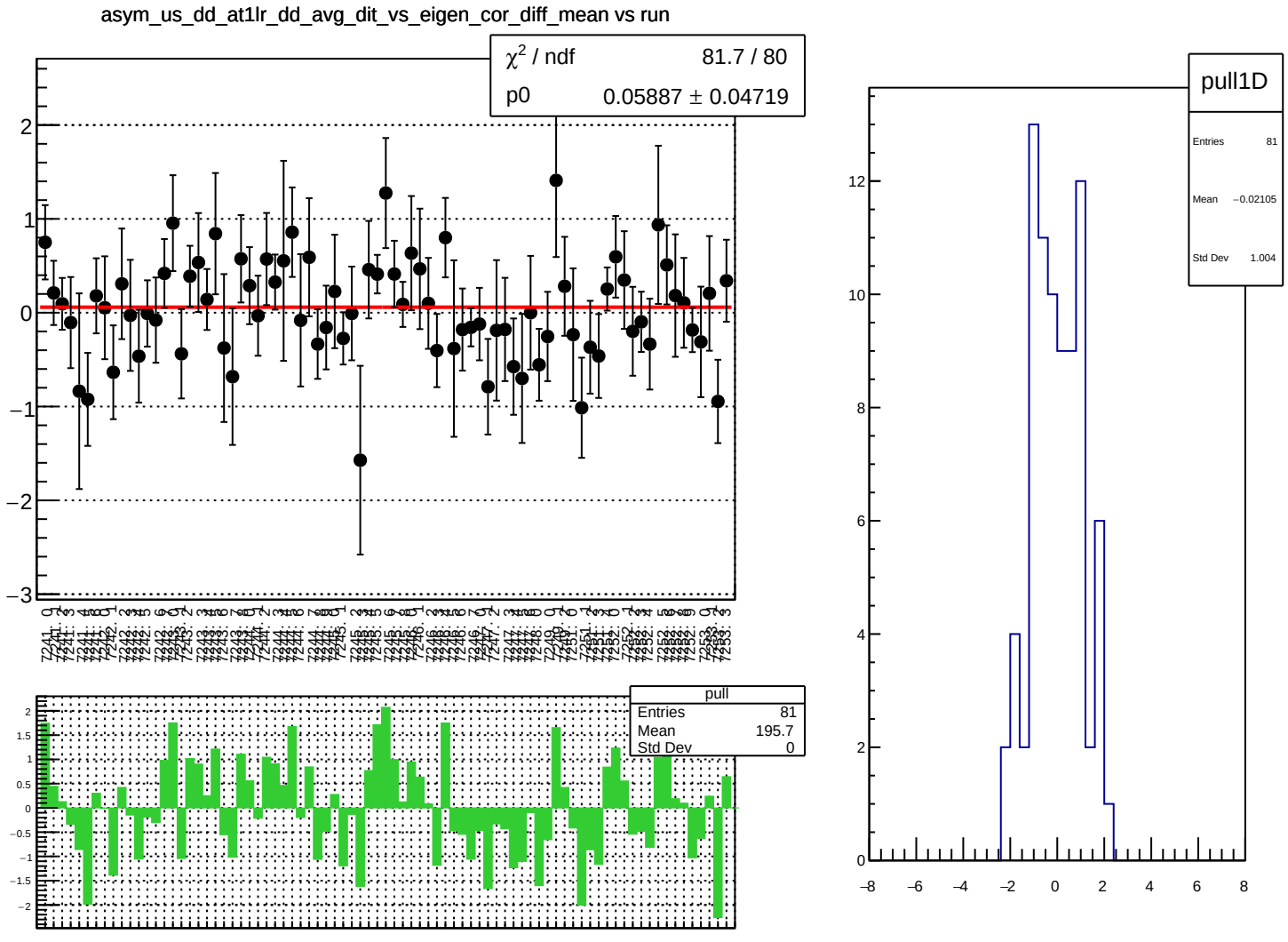

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 74.49 / 80
p0 2181 ± 1.752
2240
2220
2200
2180
2160
2140
2120

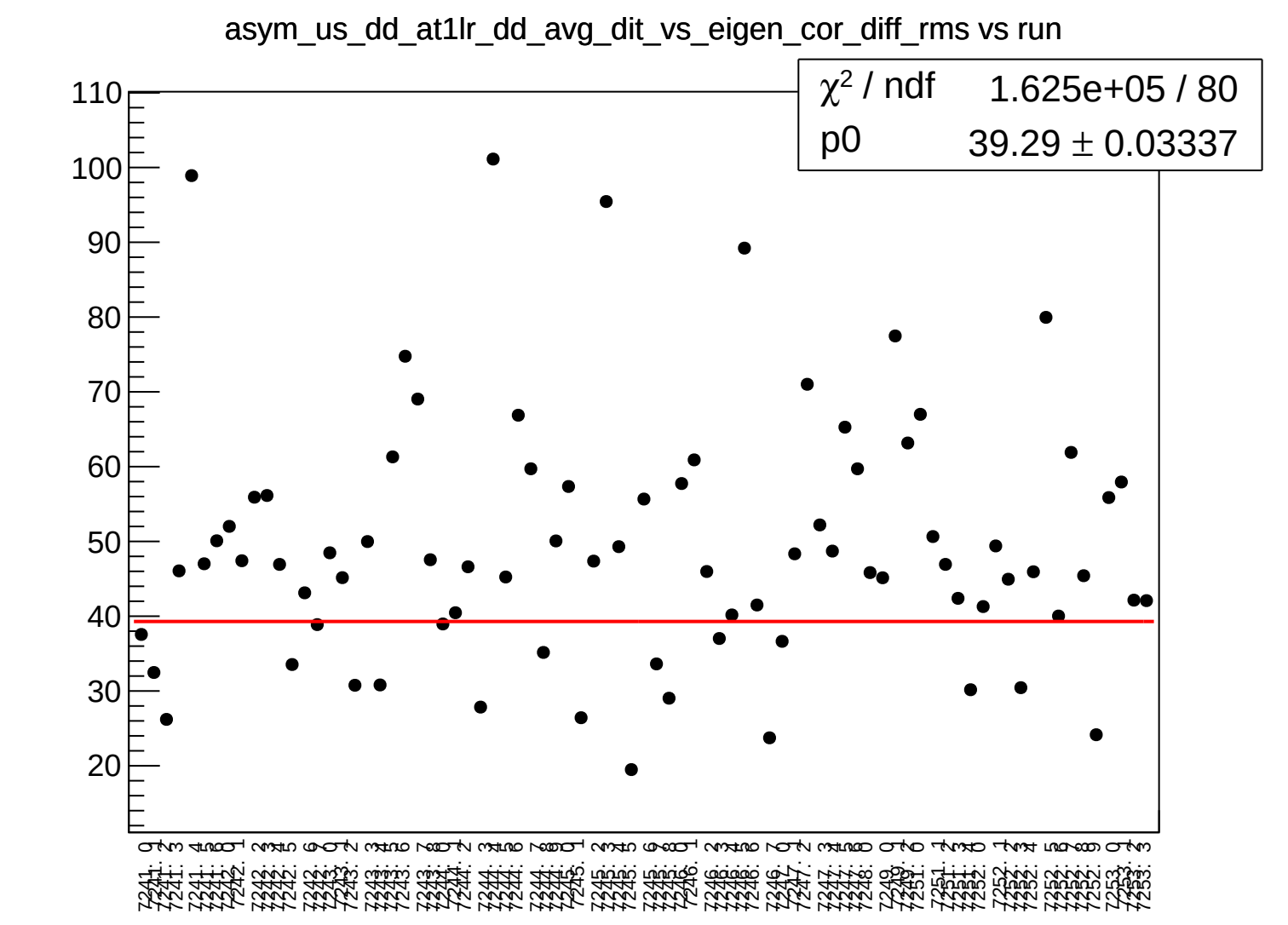

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 104.4 / 80
p0 5.985e−15 ± 8.604e−15
pull
Entries 81
Mean 40.25
Std Dev 19.19
pull1D
Entries 81
Mean 0.1029
Std Dev 1.131

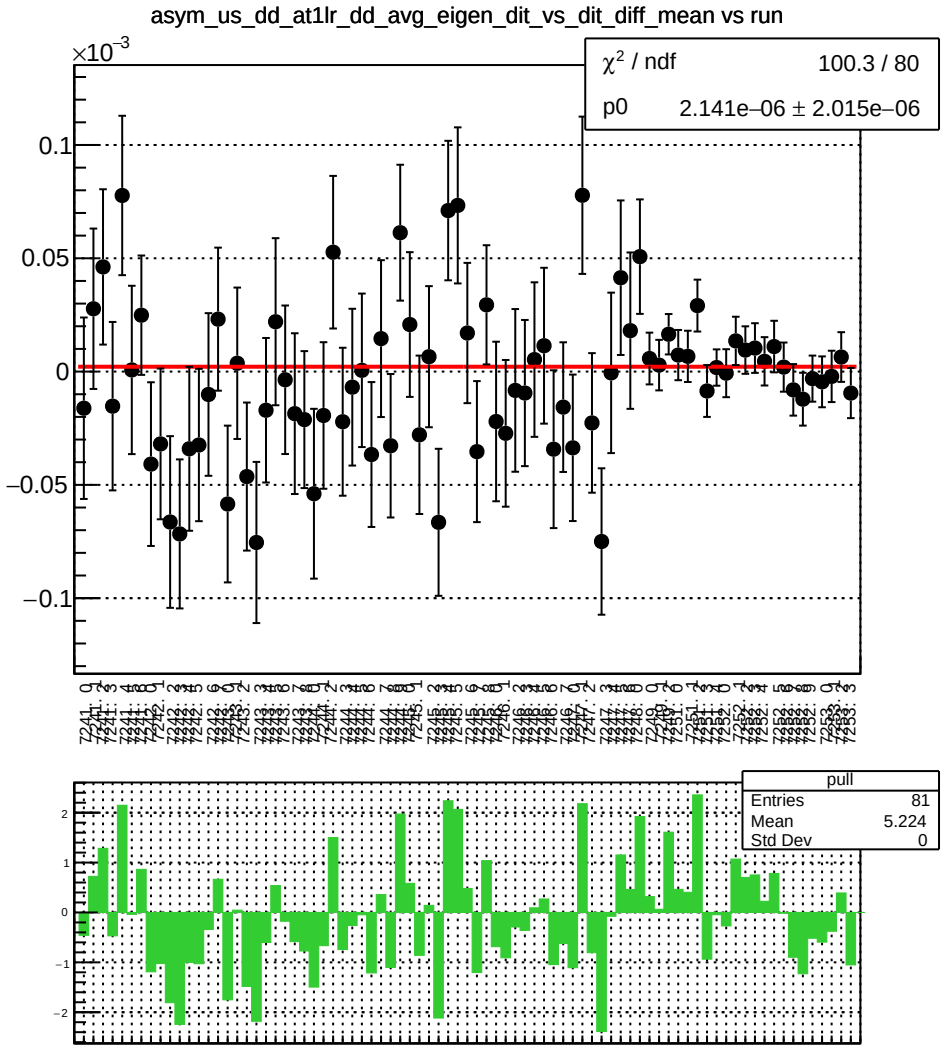

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.065e+06 / 80
p0 4.233e−12 ± 6.084e−15
1.4
1.2
1
0.8
0.6
0.4
0.2
0

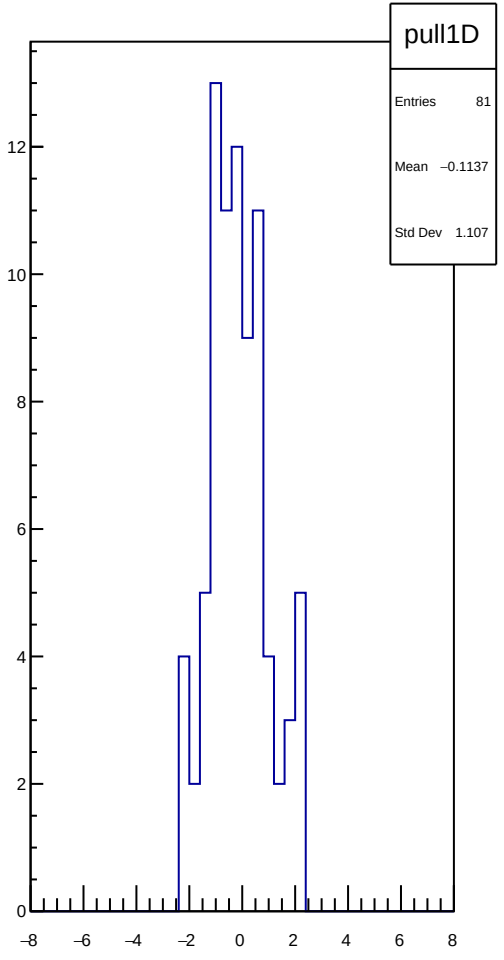

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 81.7 / 80
p0 0.05887 ± 0.04719
pull
Entries 81
Mean 195.7
Std Dev 0
pull1D
Entries 81
Mean −0.02105
Std Dev 1.004

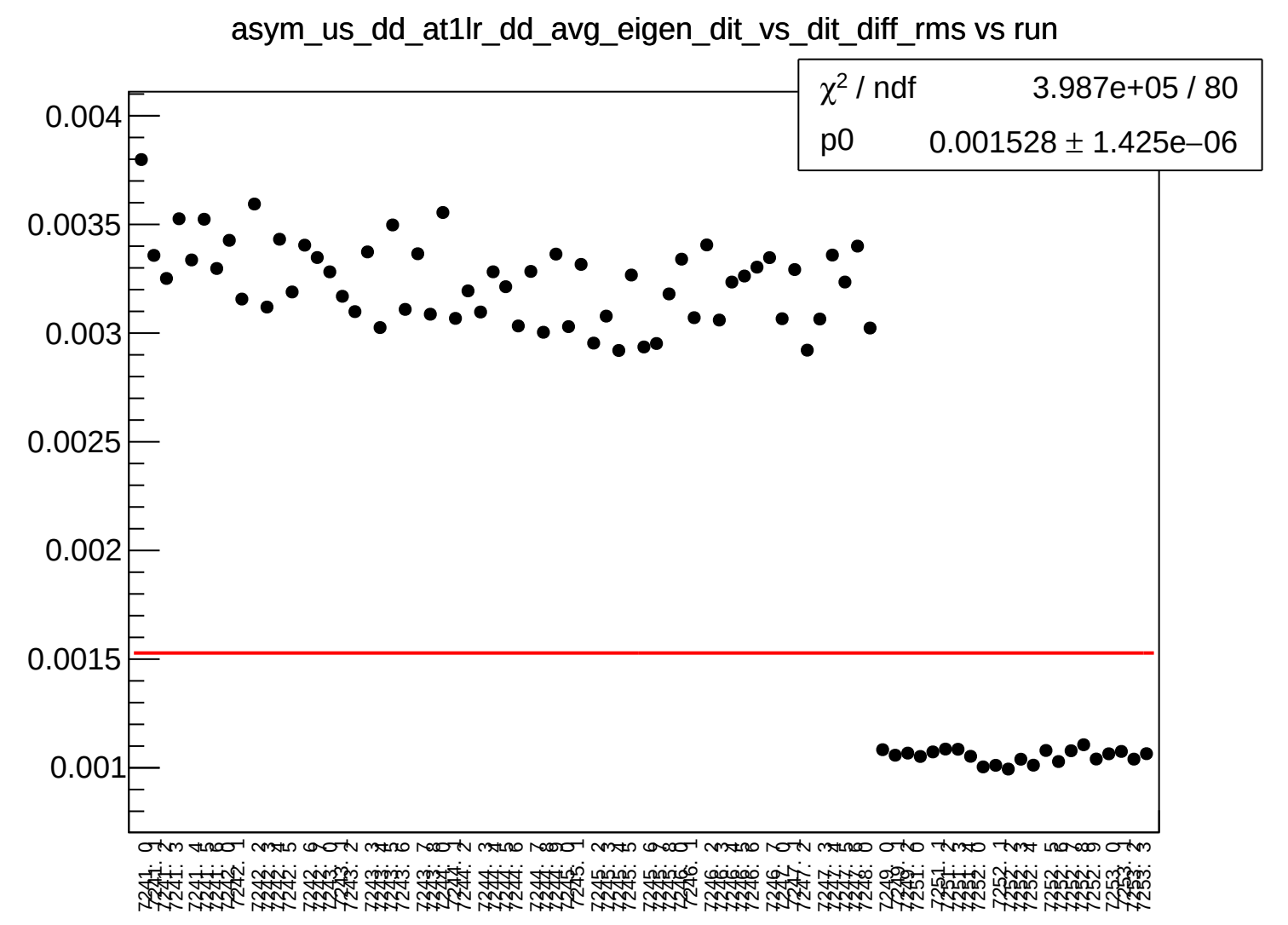

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.625e+05 / 80
p0 39.29 ± 0.03337
110
100
90
80
70
60
50
40
30
20

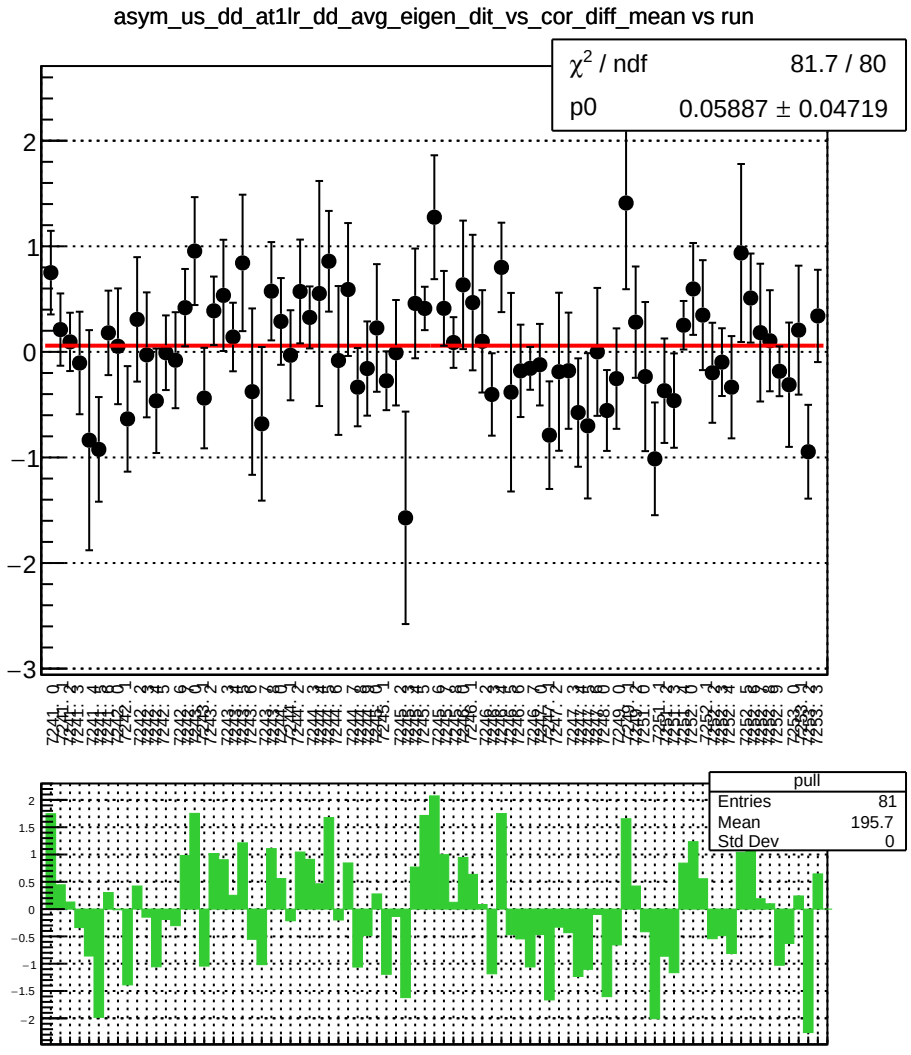

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.7 / 80
p0 0.05887 ± 0.04719
pull
Entries 81
Mean 195.7
Std Dev 0
pull1D
Entries 81
Mean −0.02105
Std Dev 1.004

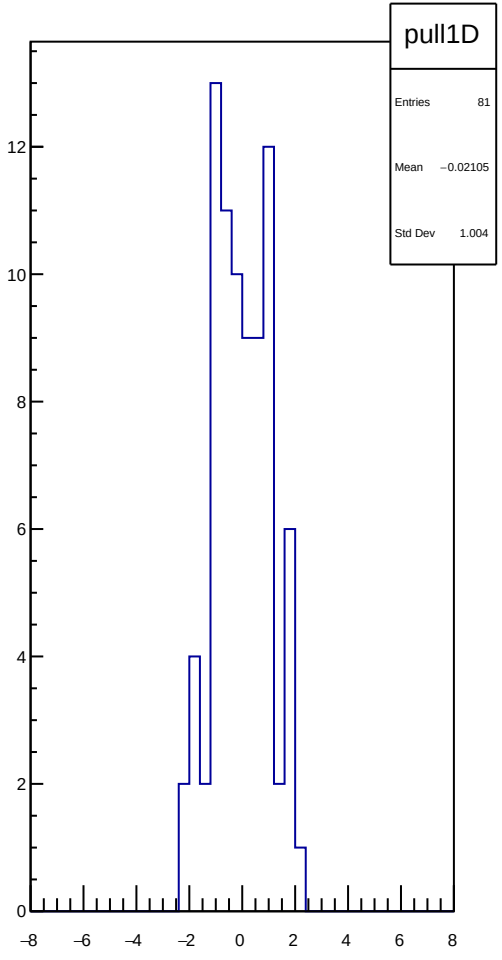

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.625e+05 / 80
p0 39.29 ± 0.03337
110
100
90
80
70
60
50
40
30
20

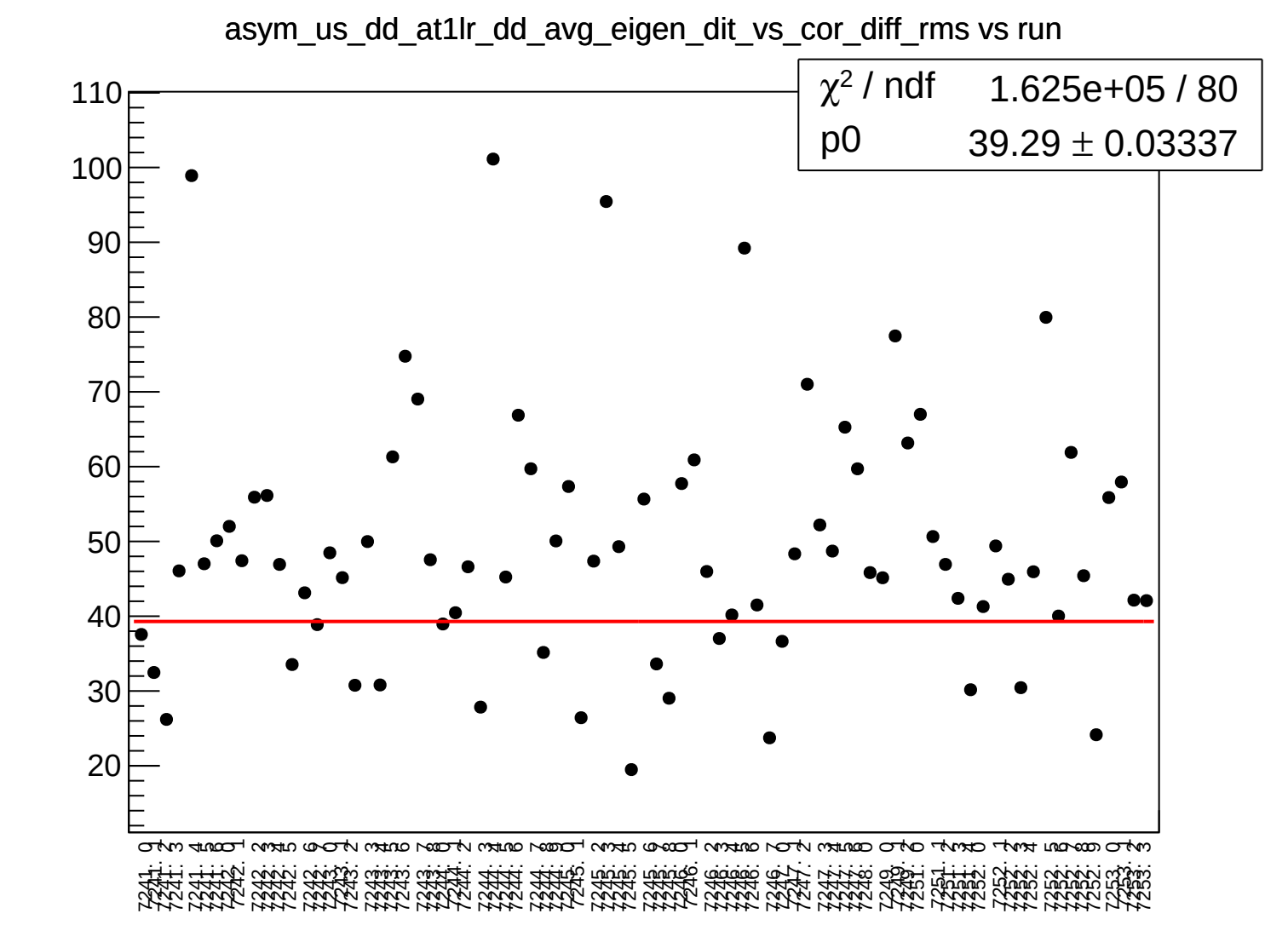

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.3 / 80
p0 2.141e−06 ± 2.015e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 81
Mean 5.224
Std Dev 0
2
1
0
−1
−2

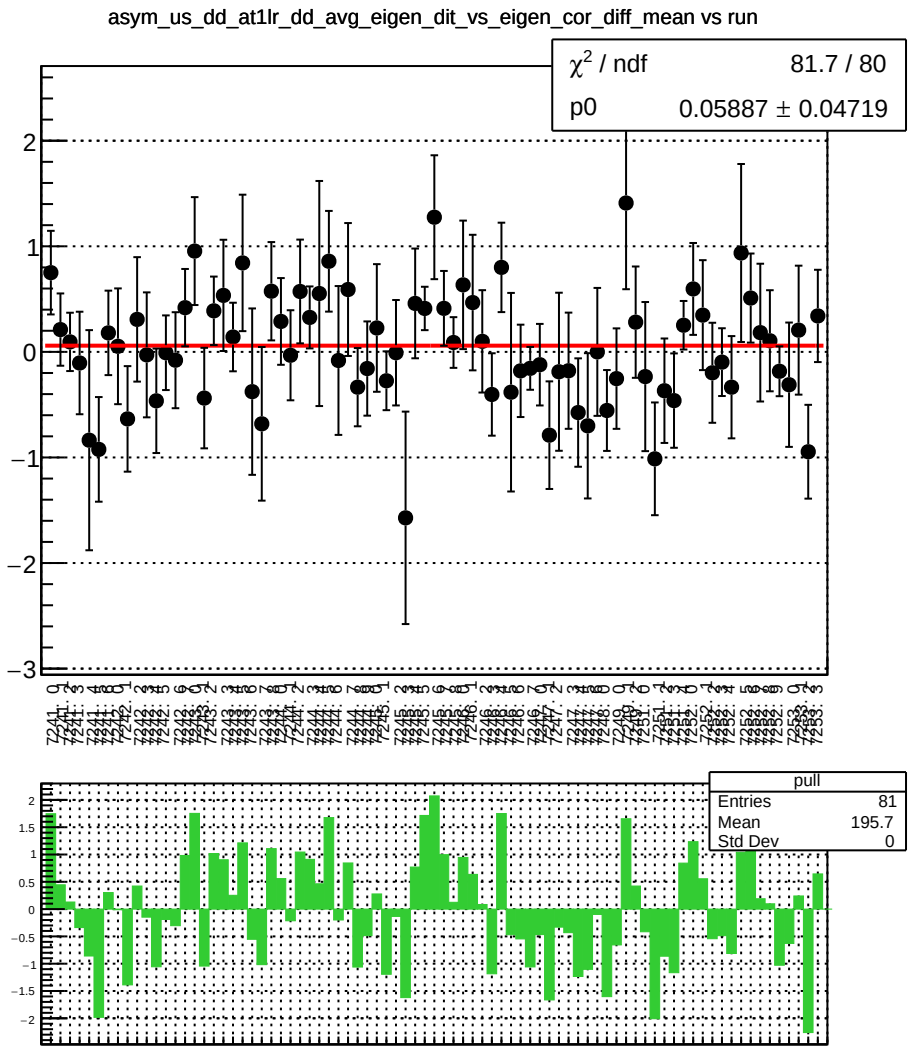

pull1D
Entries 81
Mean −0.1137
Std Dev 1.107
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

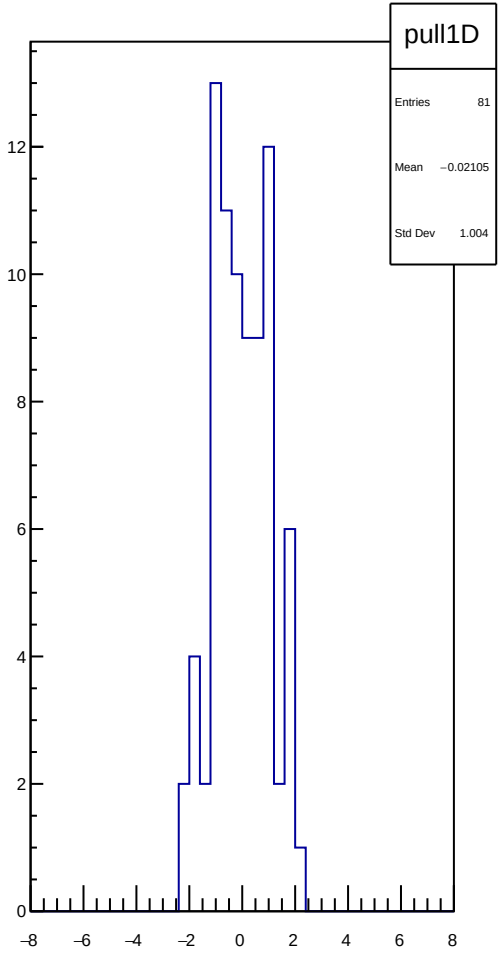

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.987e+05 / 80
p0 0.001528 ± 1.425e−06
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

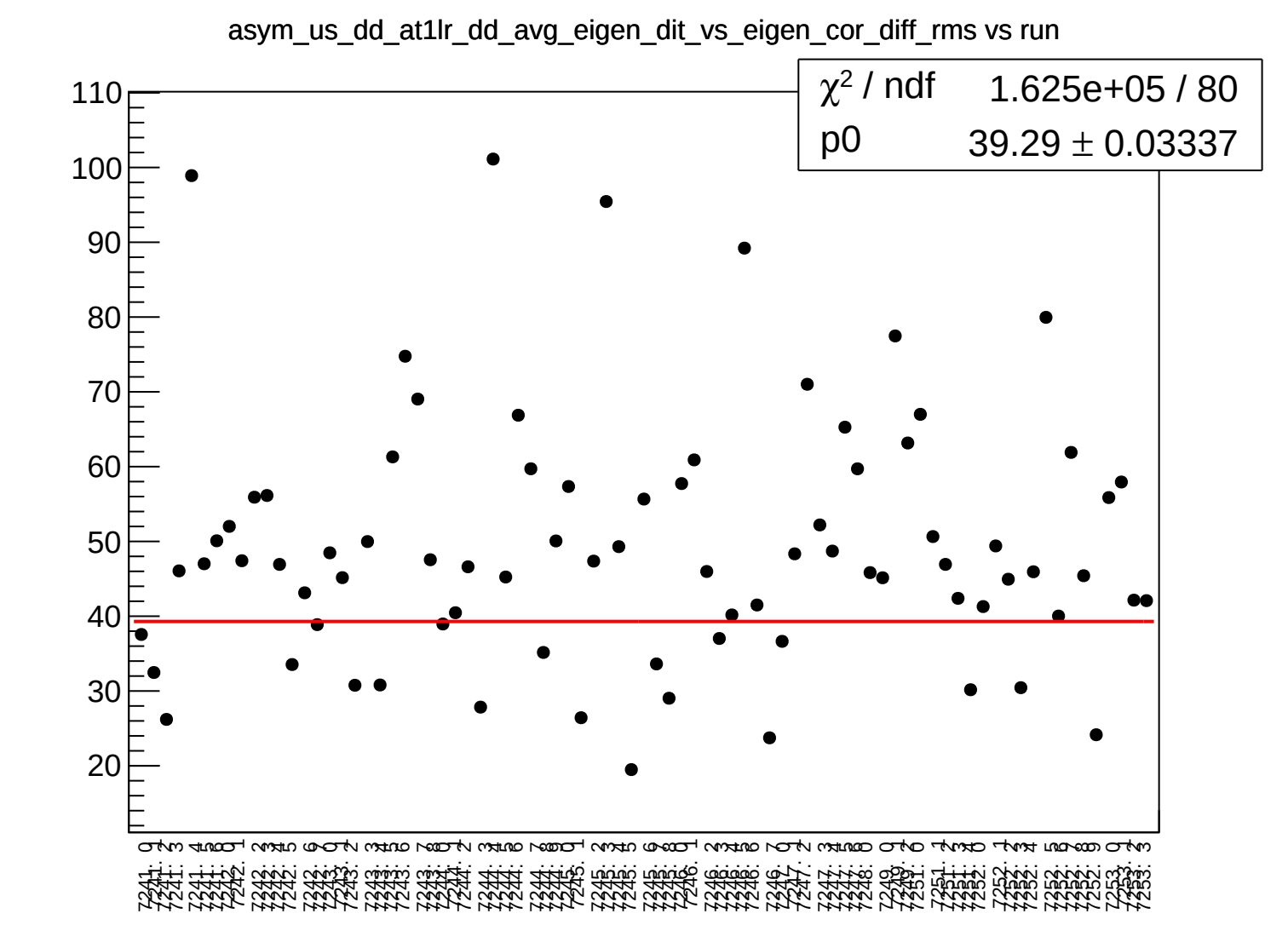

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.7 / 80
p0 0.05887 ± 0.04719
pull
Entries 81
Mean 195.7
Std Dev 0

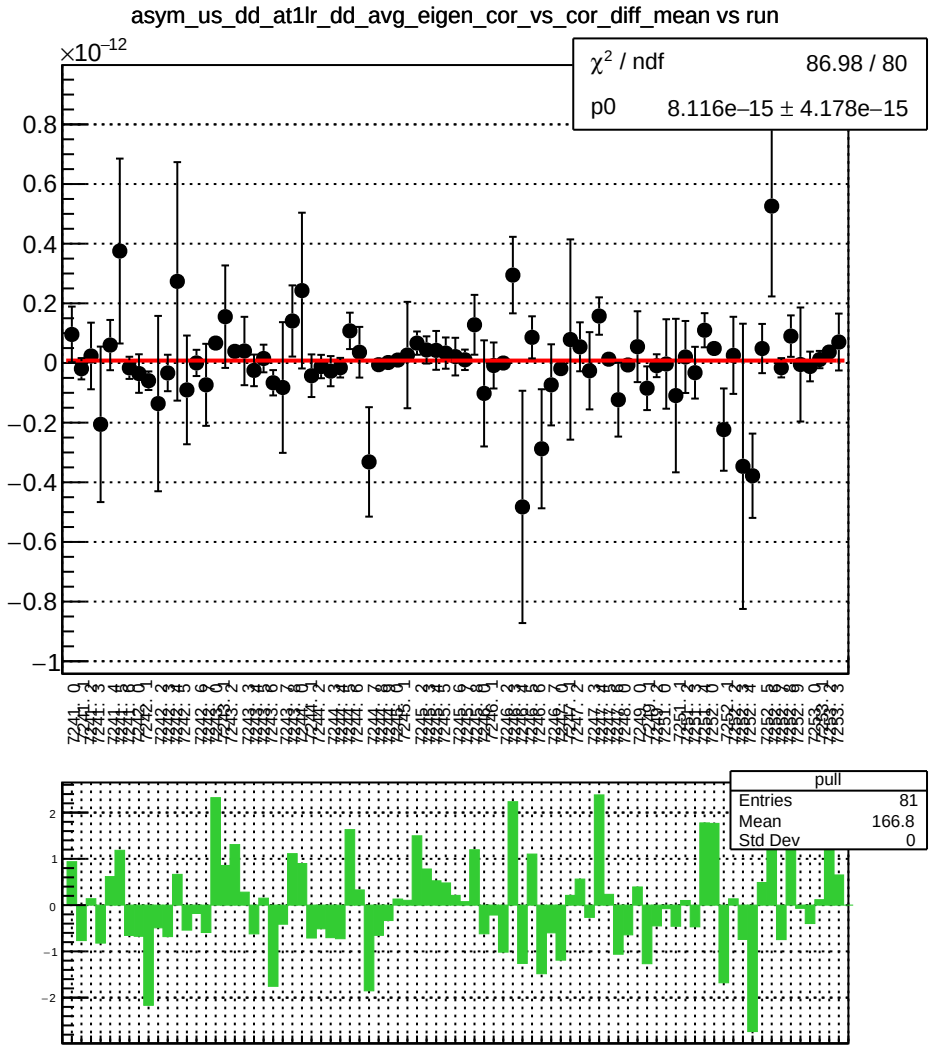

pull1D
Entries 81
Mean −0.02105
Std Dev 1.004

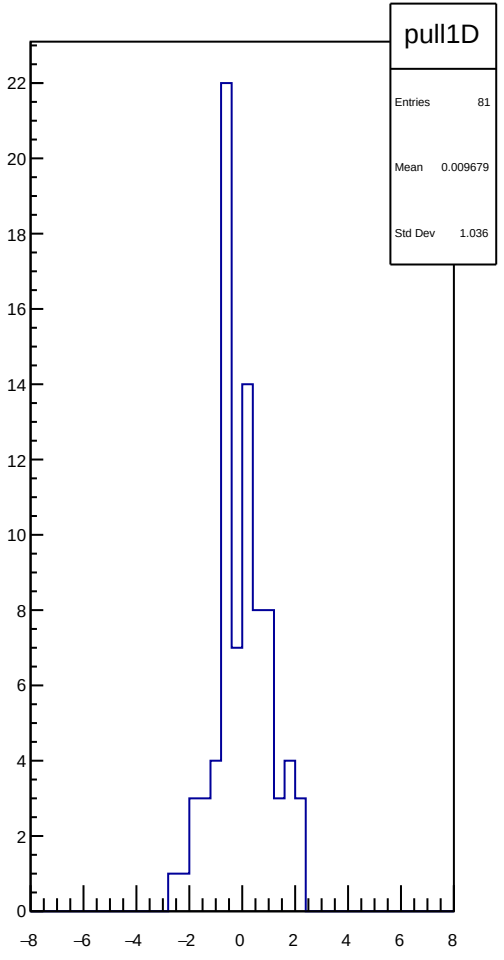

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.625e+05 / 80
p0 39.29 ± 0.03337
110
100
90
80
70
60
50
40
30
20

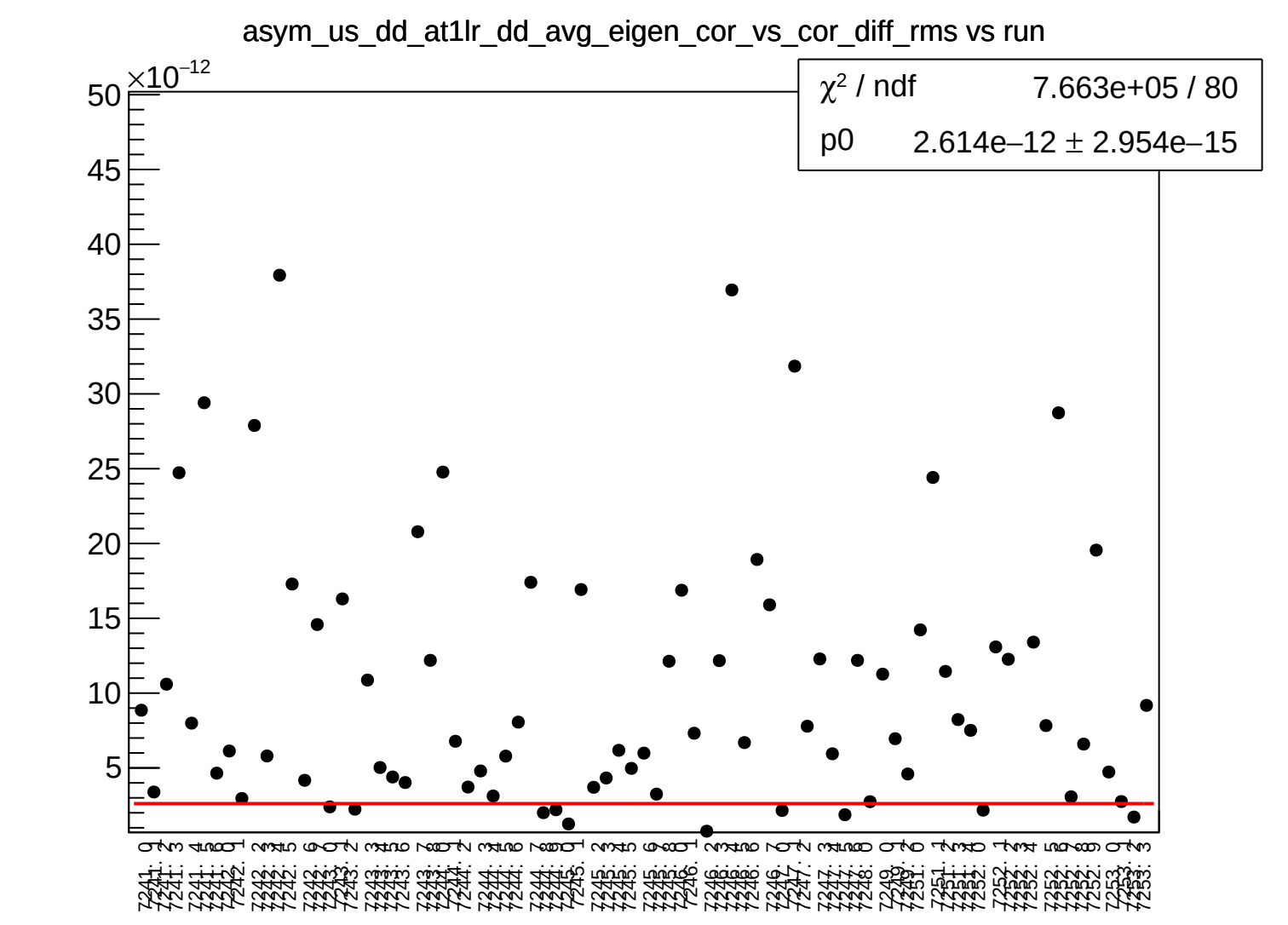

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.7 / 80
p0 0.05887 ± 0.04719
pull
Entries 81
Mean 195.7
Std Dev 0

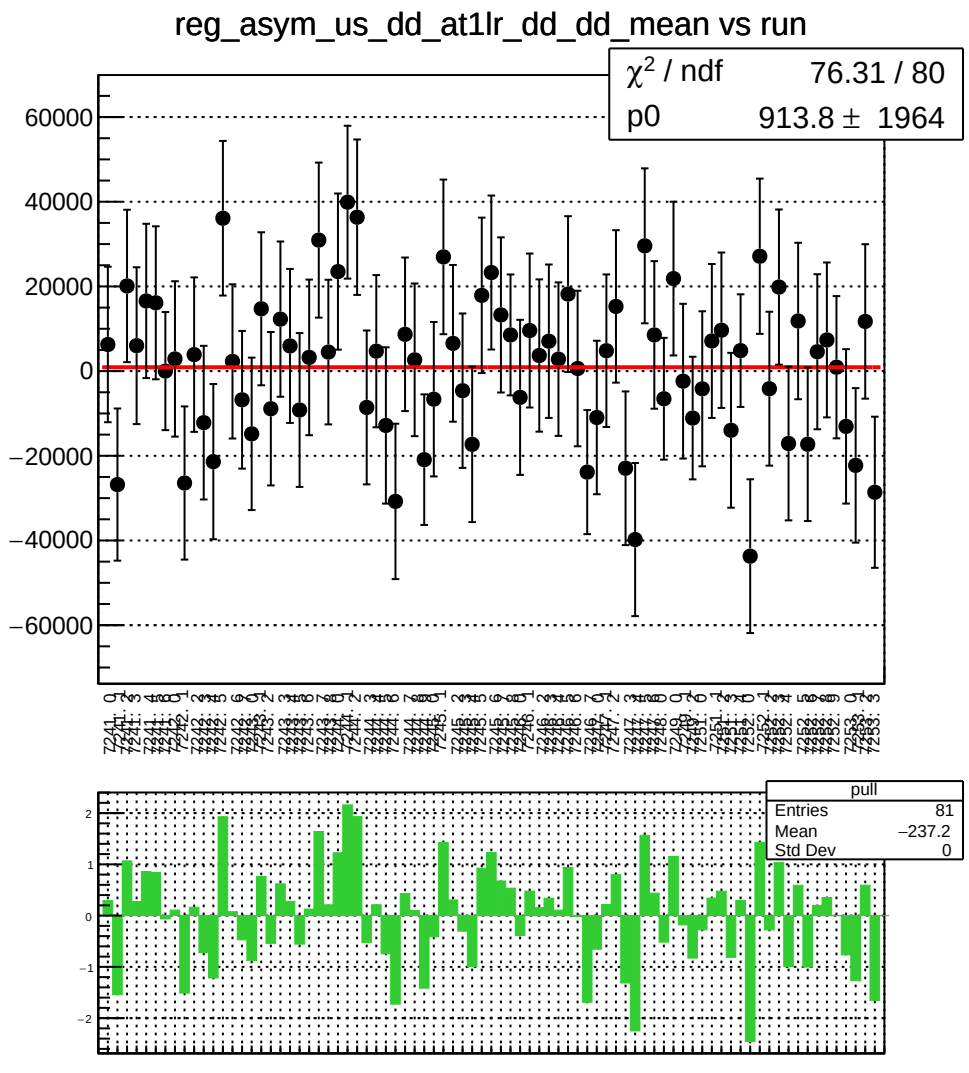

pull1D
Entries 81
Mean −0.02105
Std Dev 1.004

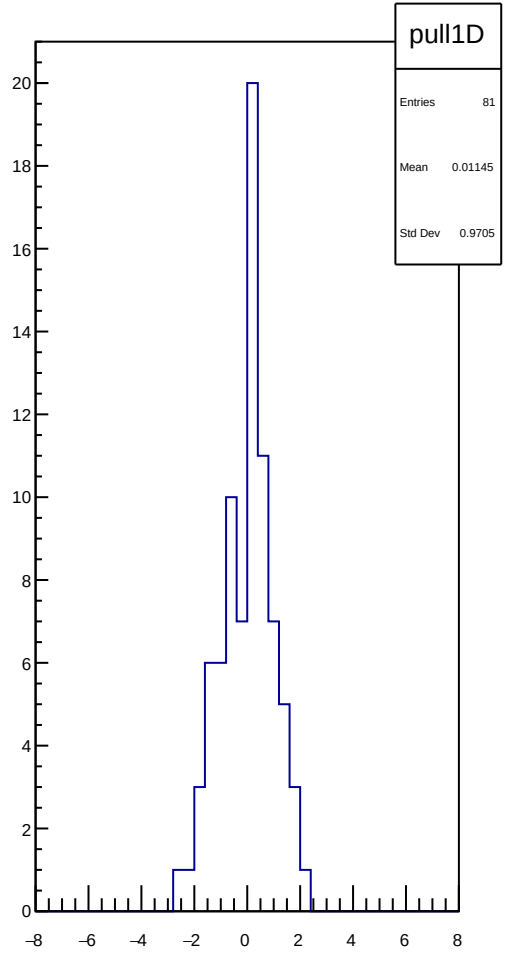

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.625e+05 / 80
p0 39.29 ± 0.03337
110
100
90
80
70
60
50
40
30
20

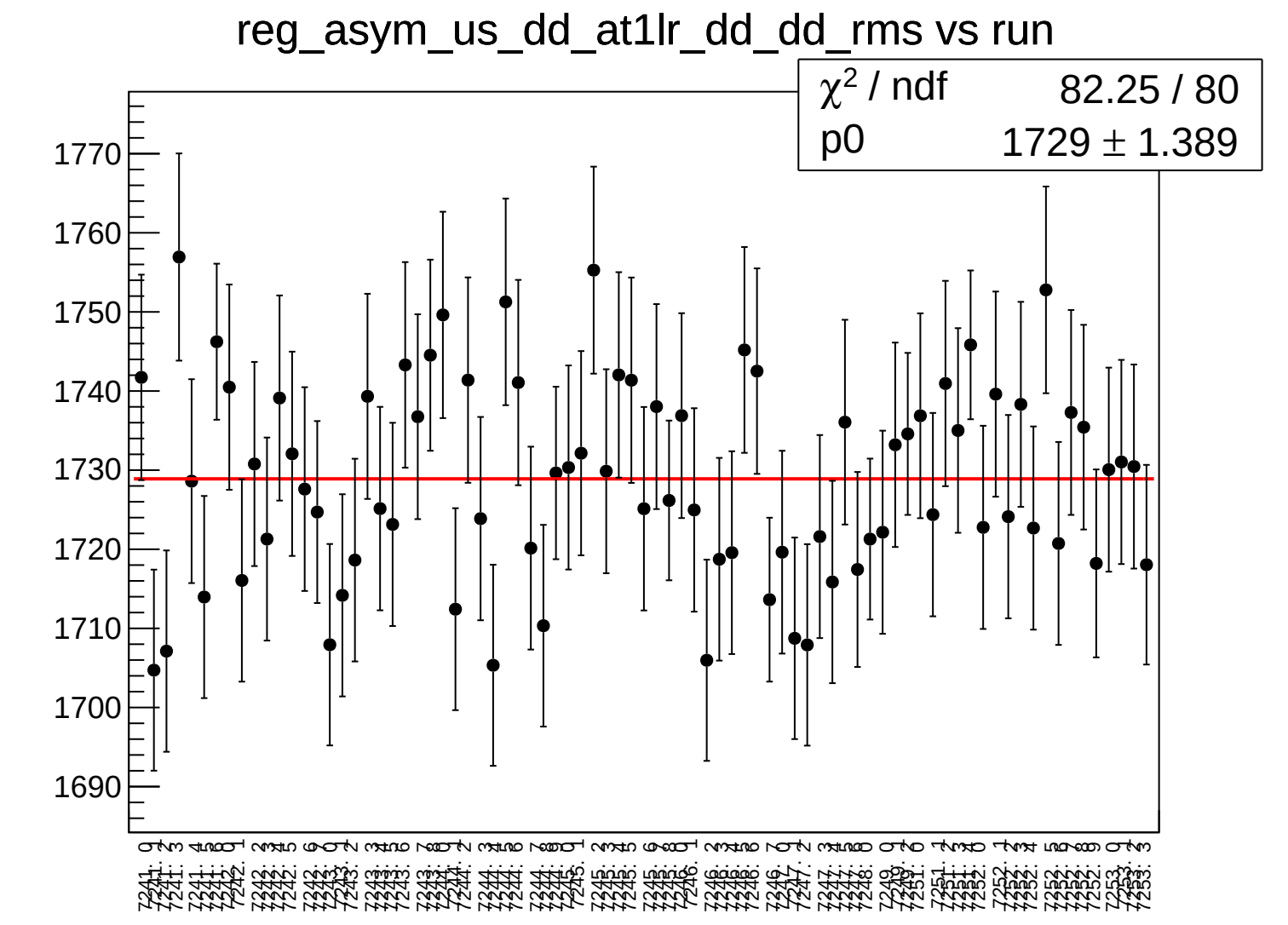

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.98 / 80
p0 8.116e−15 ± 4.178e−15
pull
Entries 81
Mean 166.8
Std Dev 0

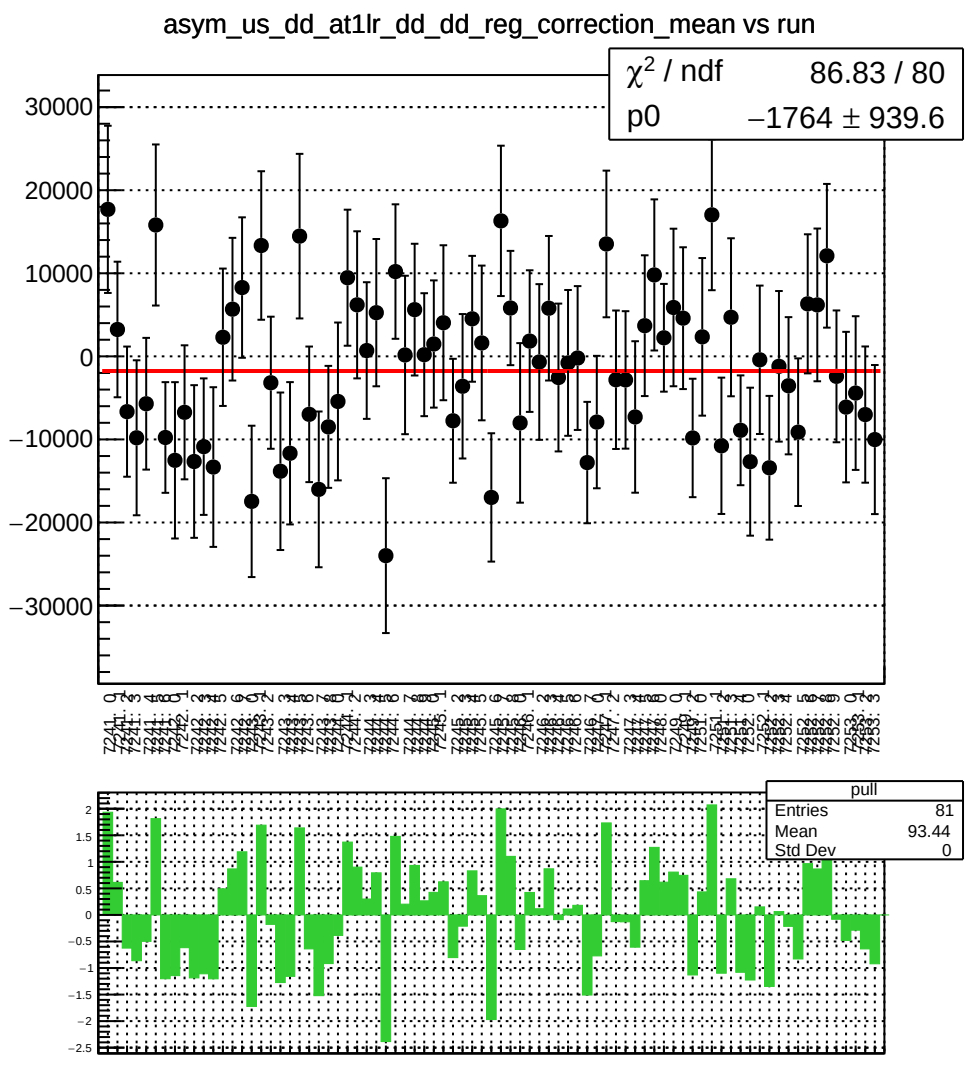

pull1D
Entries 81
Mean 0.009679
Std Dev 1.036

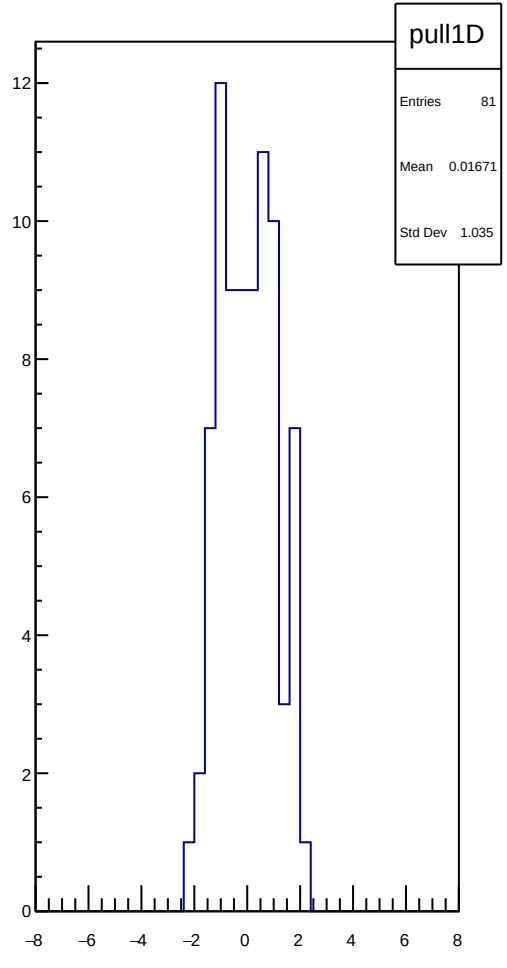

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.663e+05 / 80
p0 2.614e−12 ± 2.954e−15
50
45
40
35
30
25
20
15
10
5

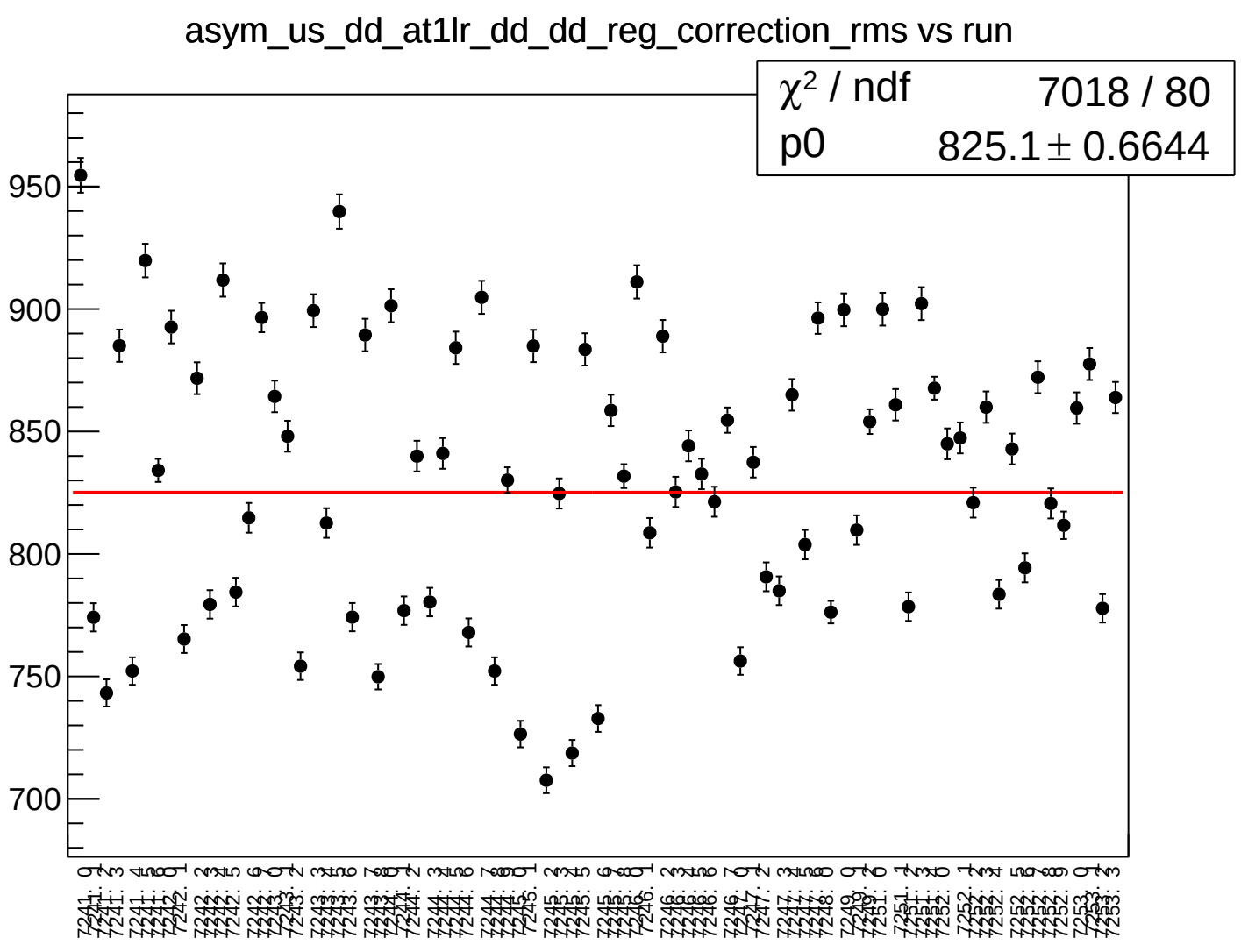

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 76.31 / 80
p0 913.8 ± 1964
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −237.2
Std Dev 0
2
1
0
−1
−2

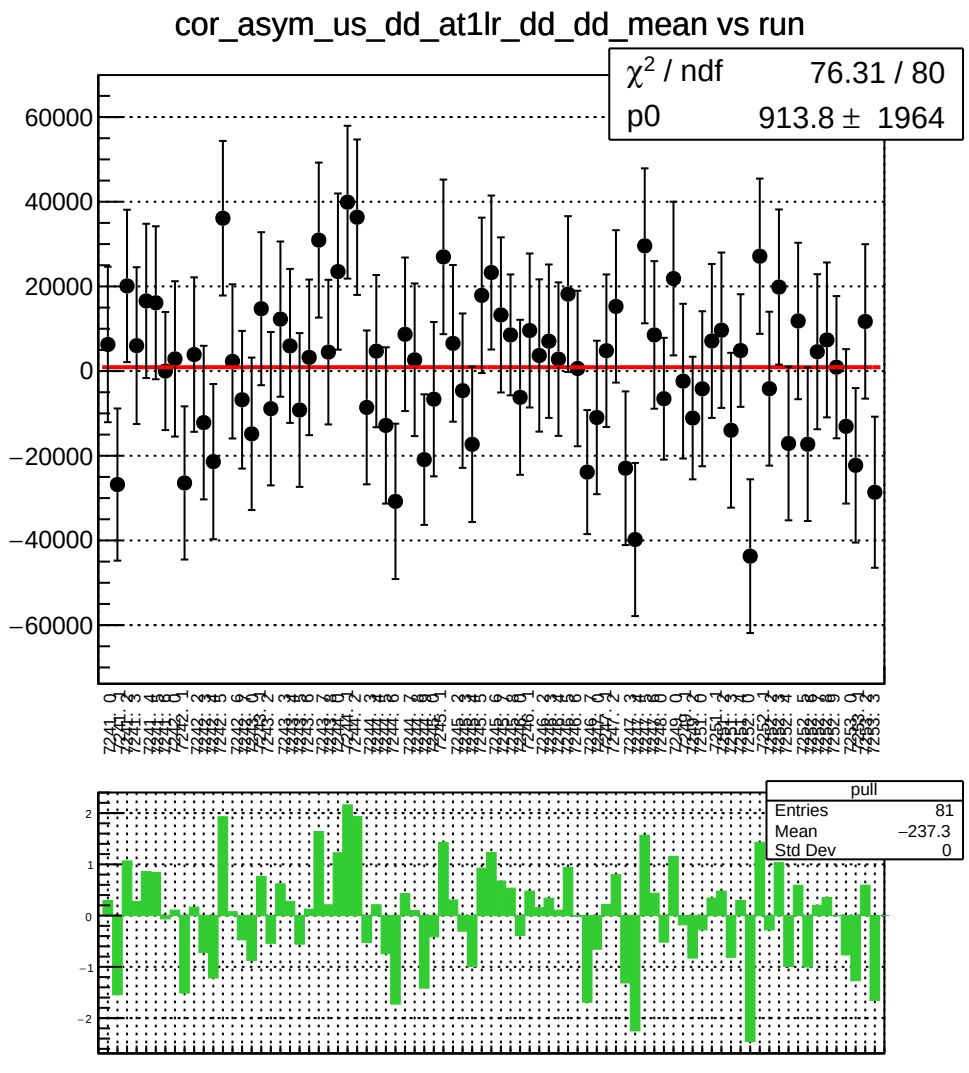

pull1D
Entries 81
Mean 0.01145
Std Dev 0.9705
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

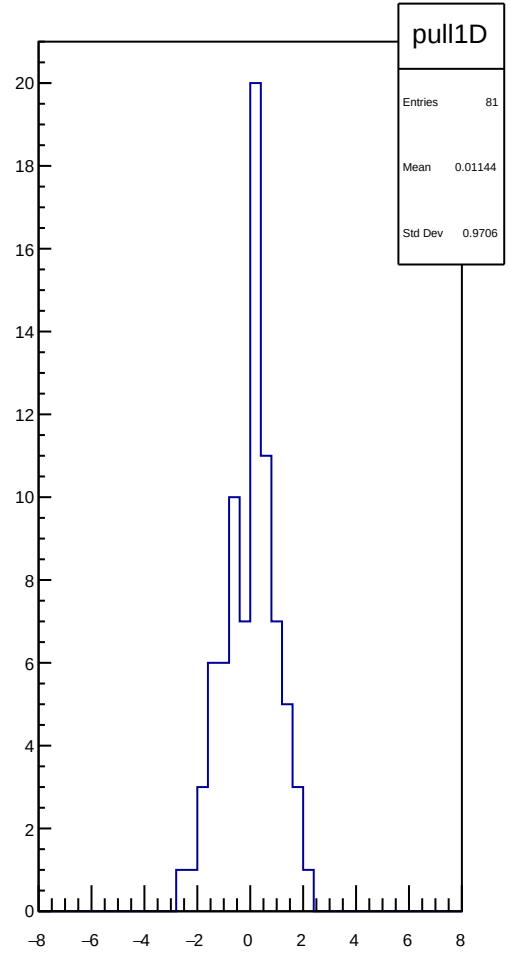

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ^2 / ndf 82.25 / 80
p0 1729 ± 1.389
1770
1760
1750
1740
1730
1720
1710
1700
1690

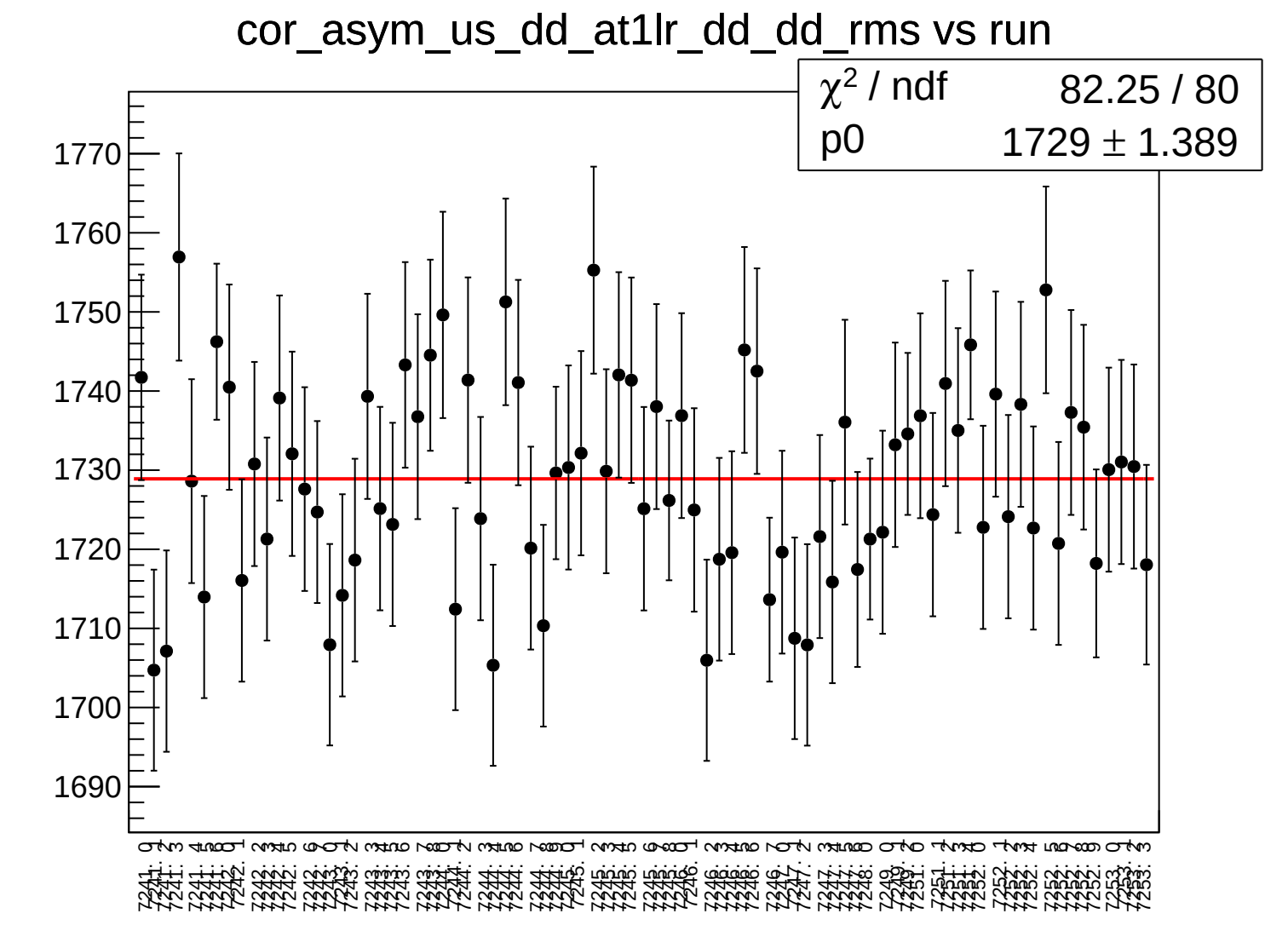

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 86.83 / 80
p0 −1764 ± 939.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean 93.44
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

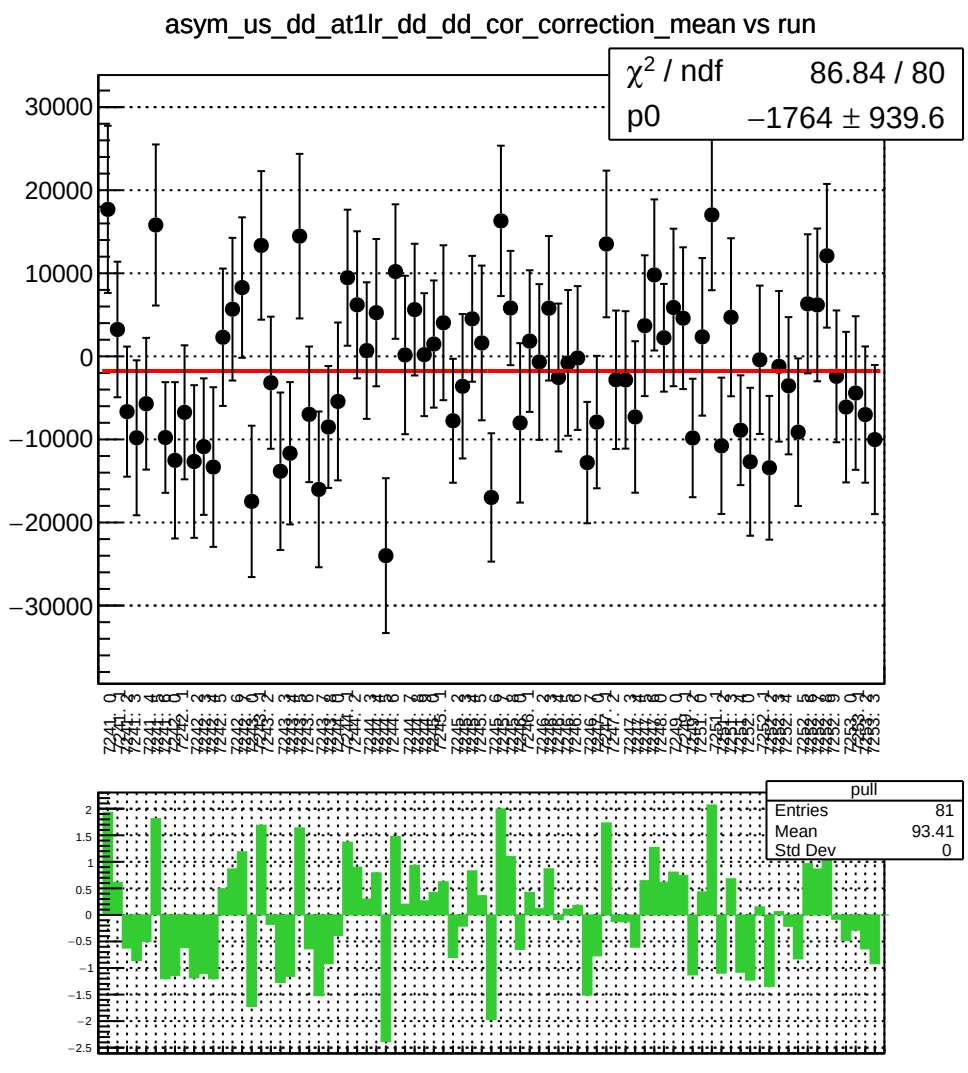

pull1D
Entries 81
Mean 0.01671
Std Dev 1.035
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

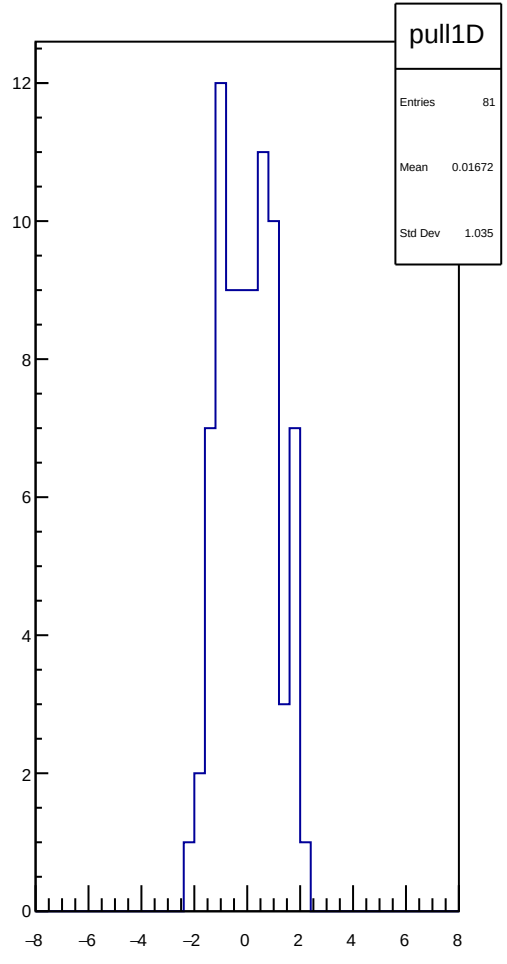

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 7018 / 80
p0 825.1 ± 0.6644
950
900
850
800
750
700

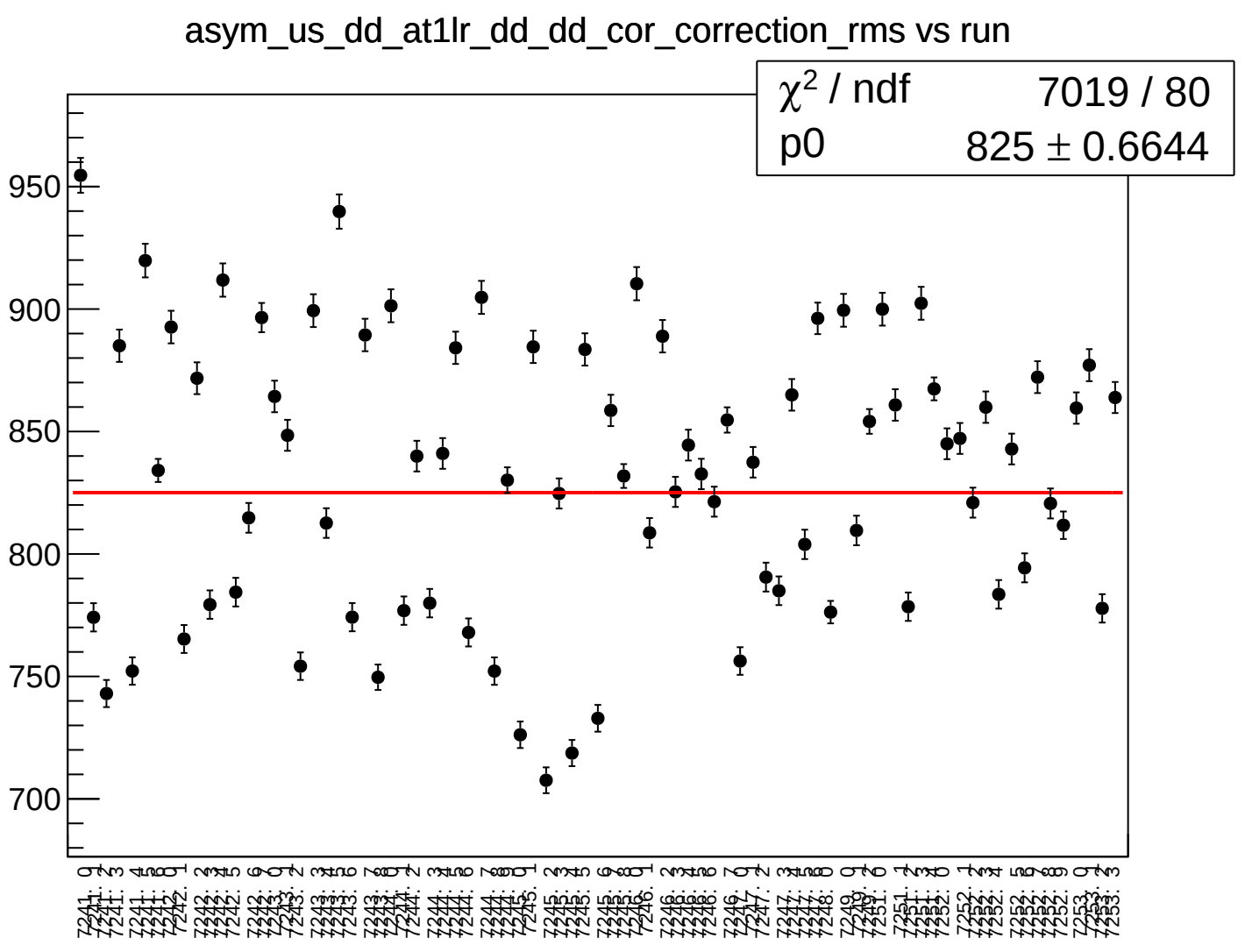

cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 76.31 / 80
p0 913.8 ± 1964
pull
Entries 81
Mean −237.3
Std Dev 0

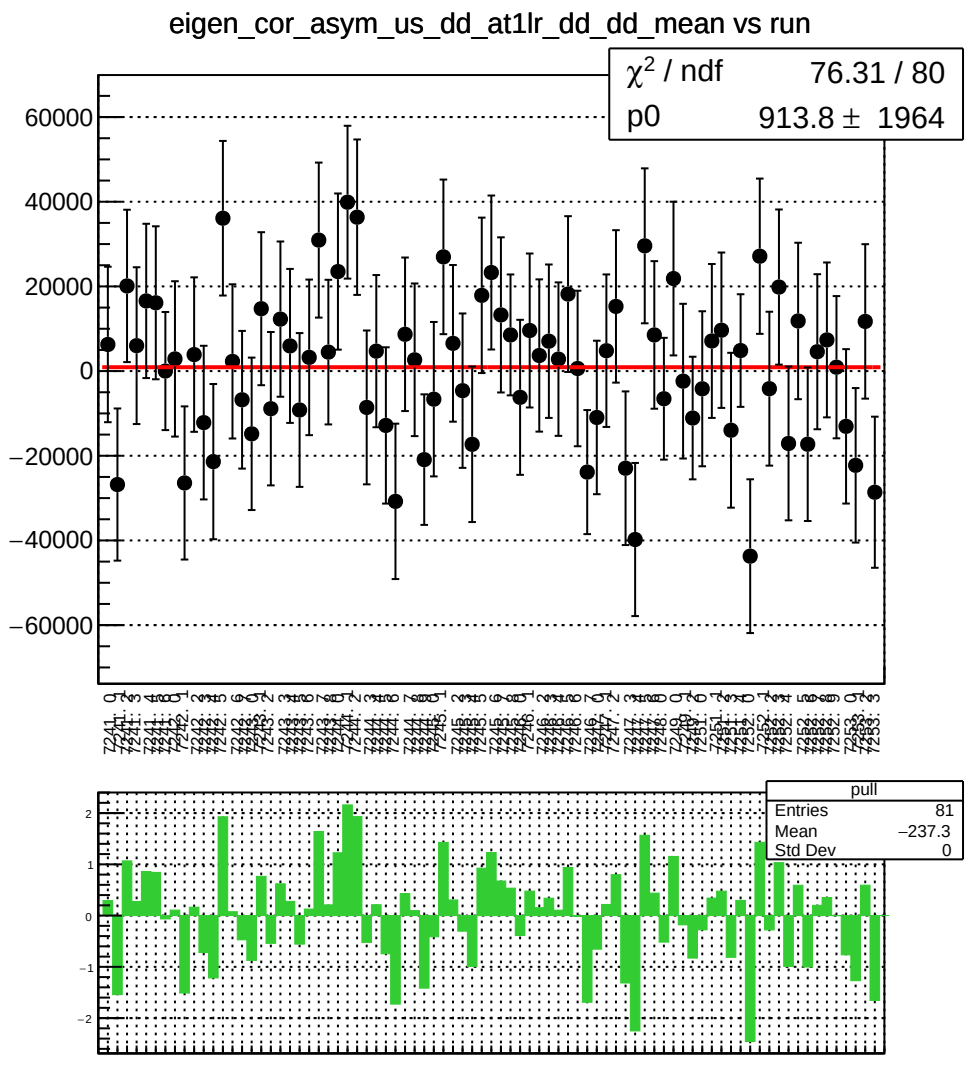

pull1D
Entries 81
Mean 0.01144
Std Dev 0.9706

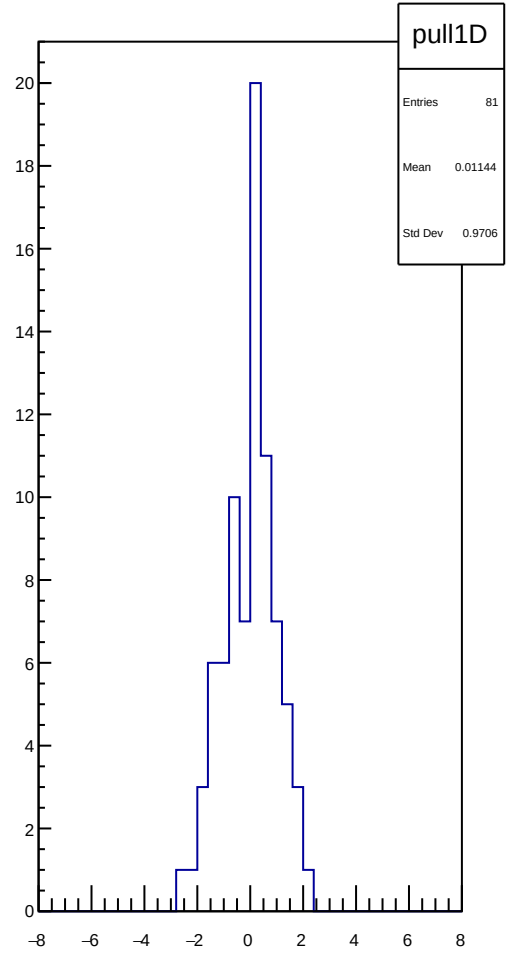

cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ^2 / ndf 82.25 / 80
p0 1729 ± 1.389
1770
1760
1750
1740
1730
1720
1710
1700
1690

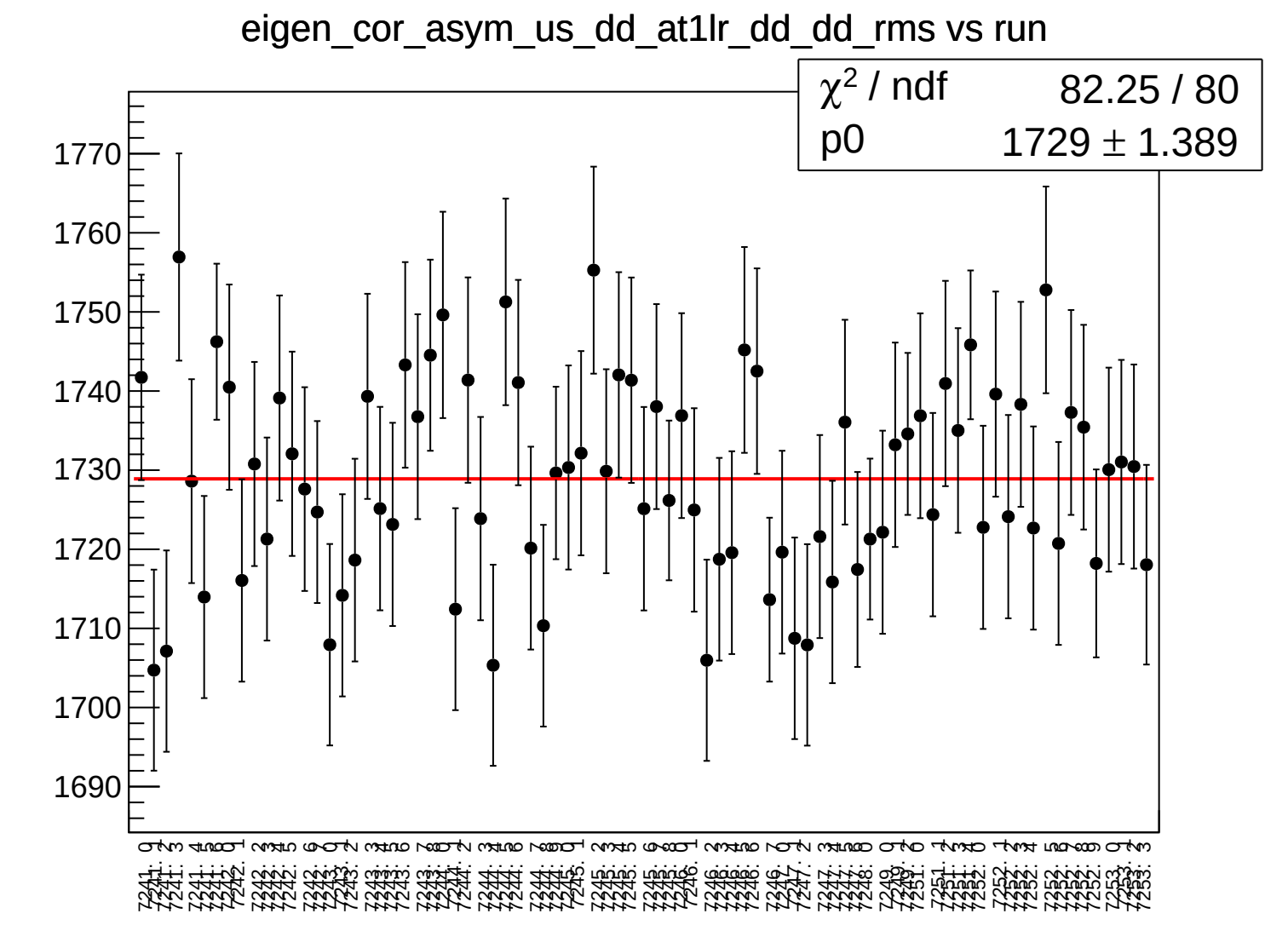

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ² / ndf 86.84 / 80
p0 −1764 ± 939.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean 93.41
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

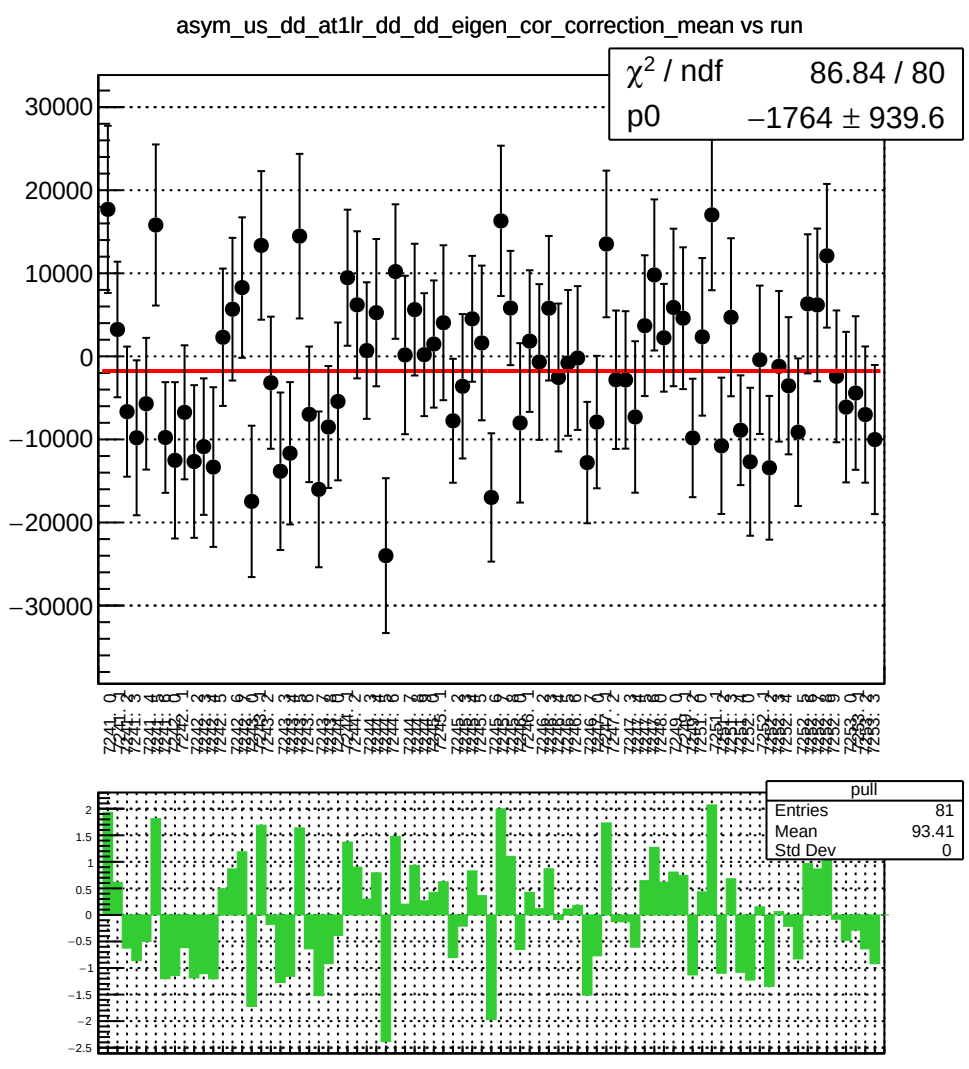

pull1D
Entries 81
Mean 0.01672
Std Dev 1.035
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

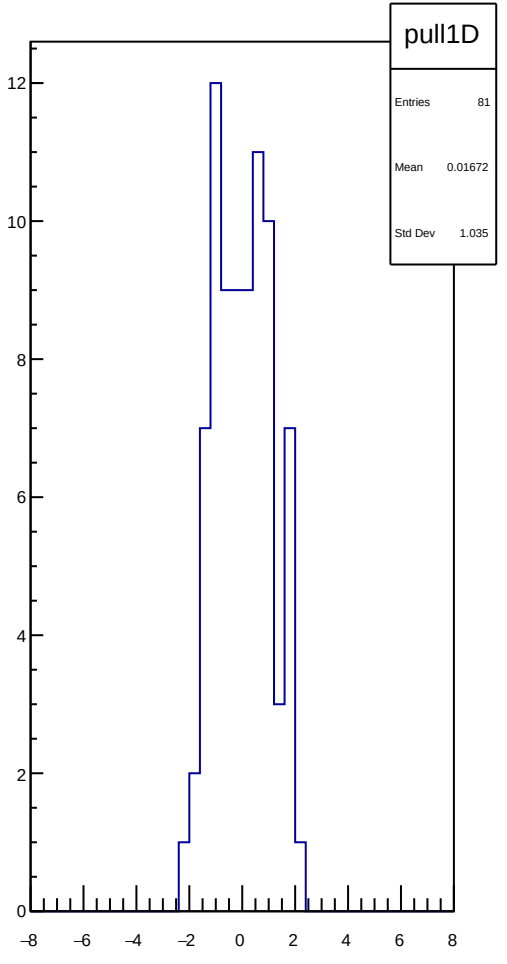

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 7019 / 80
p0 825 ± 0.6644
950
900
850
800
750
700

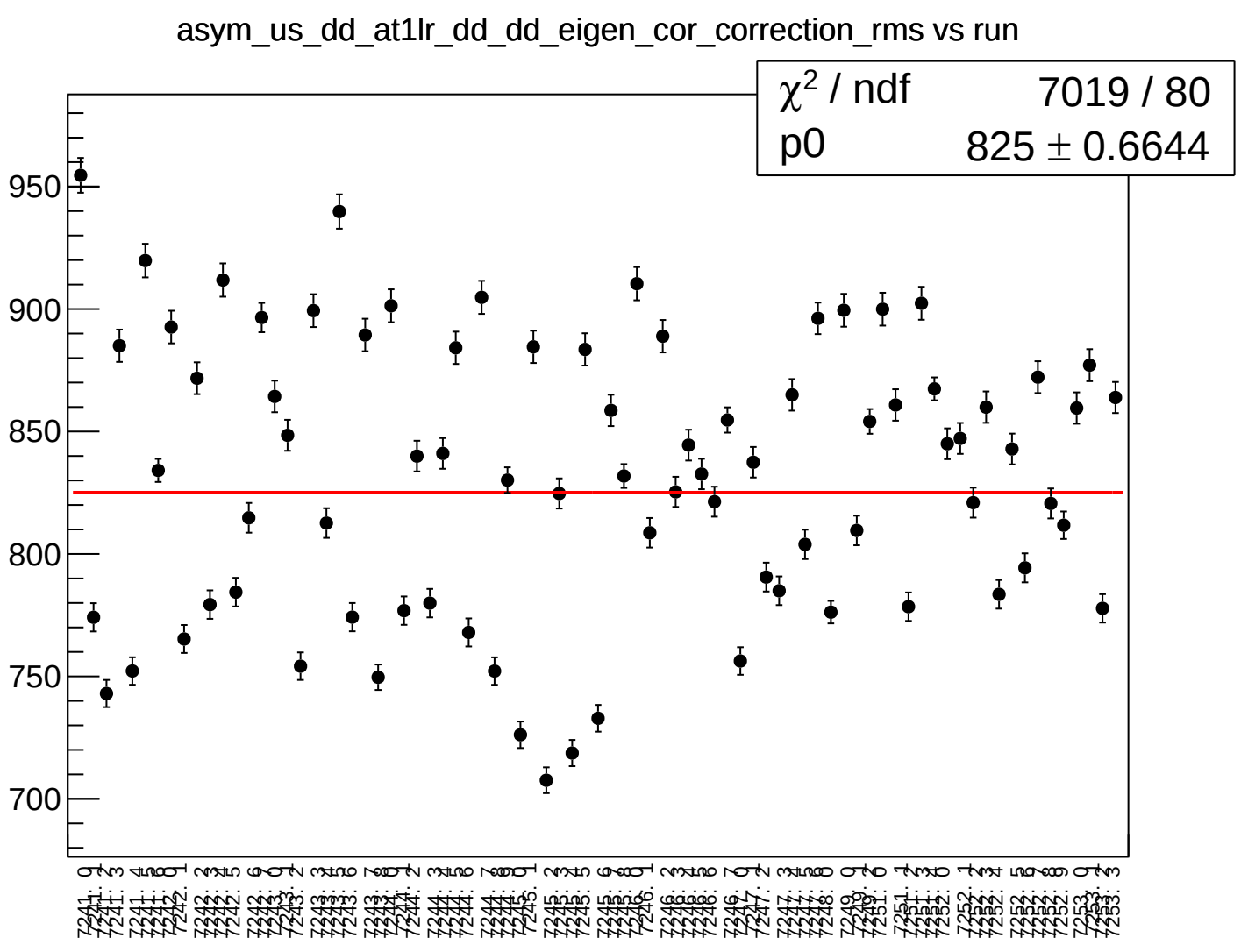

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 76.31 / 80
p0 913.8 ± 1964
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −237.3
Std Dev 0
2
1
0
−1
−2

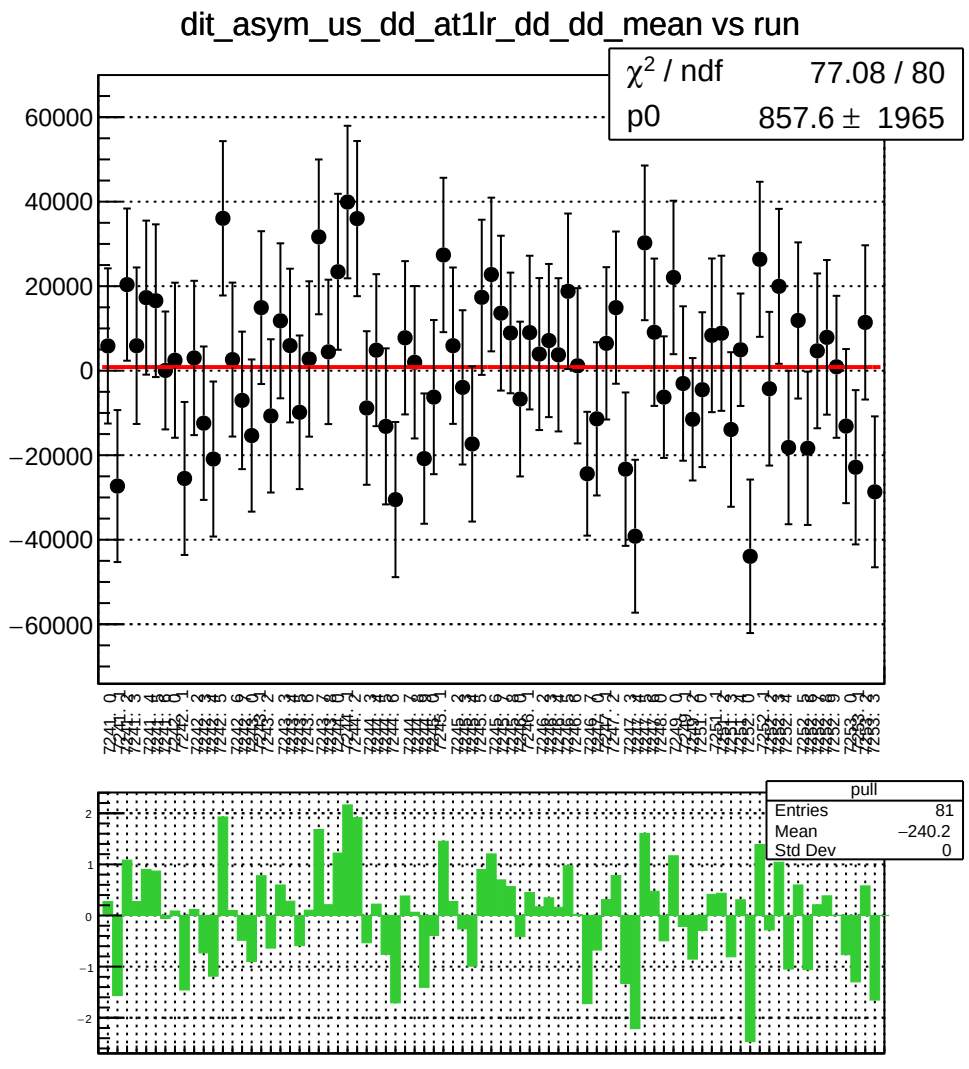

pull1D
Entries 81
Mean 0.01144
Std Dev 0.9706
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

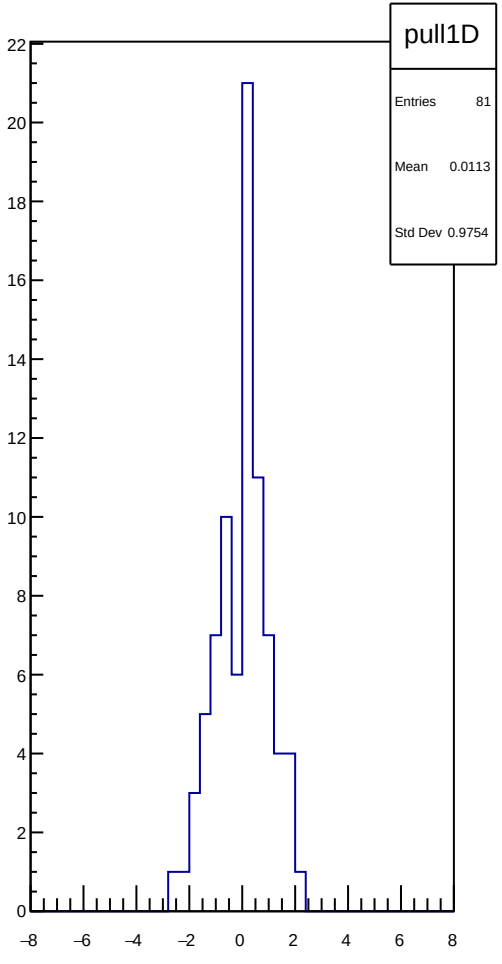

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ^2 / ndf 82.25 / 80
p0 1729 ± 1.389
1770
1760
1750
1740
1730
1720
1710
1700
1690

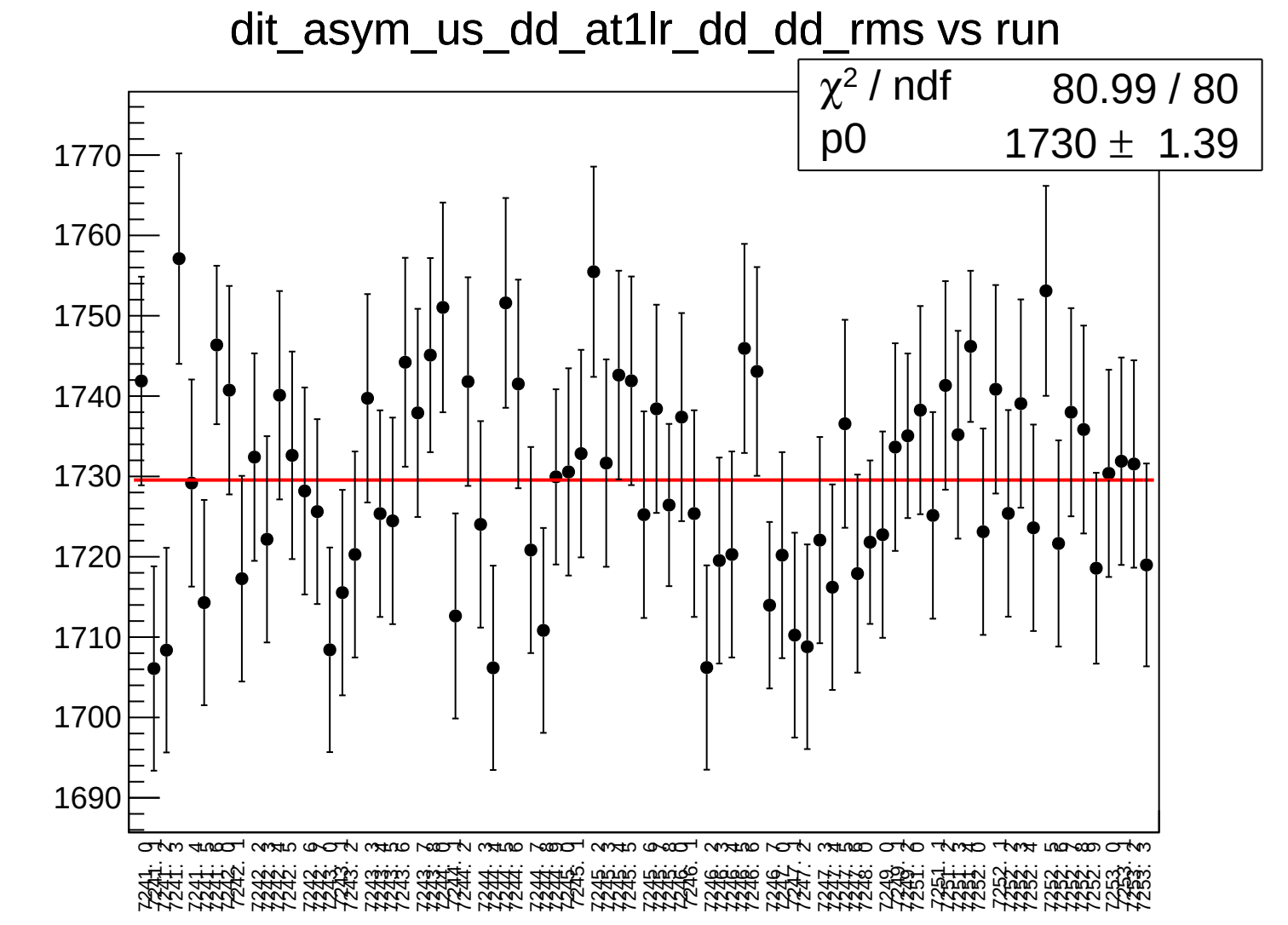

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 86.84 / 80
p0 −1764 ± 939.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean 93.41
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

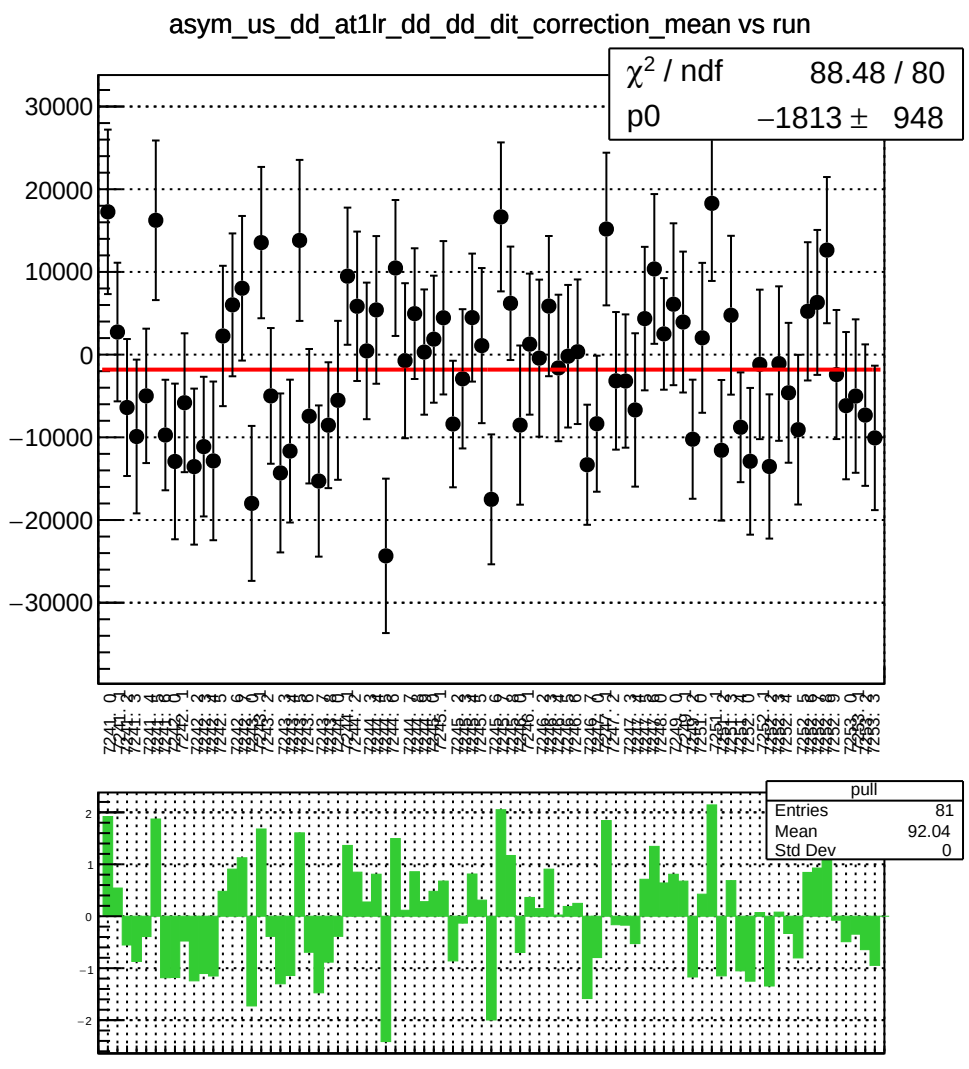

pull1D
Entries 81
Mean 0.01672
Std Dev 1.035
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

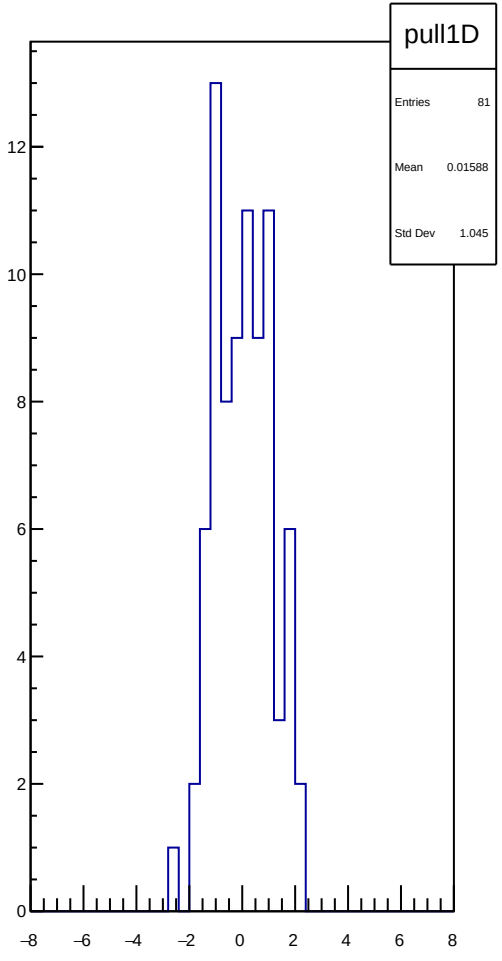

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 7019 / 80
p0 825 ± 0.6644
950
900
850
800
750
700

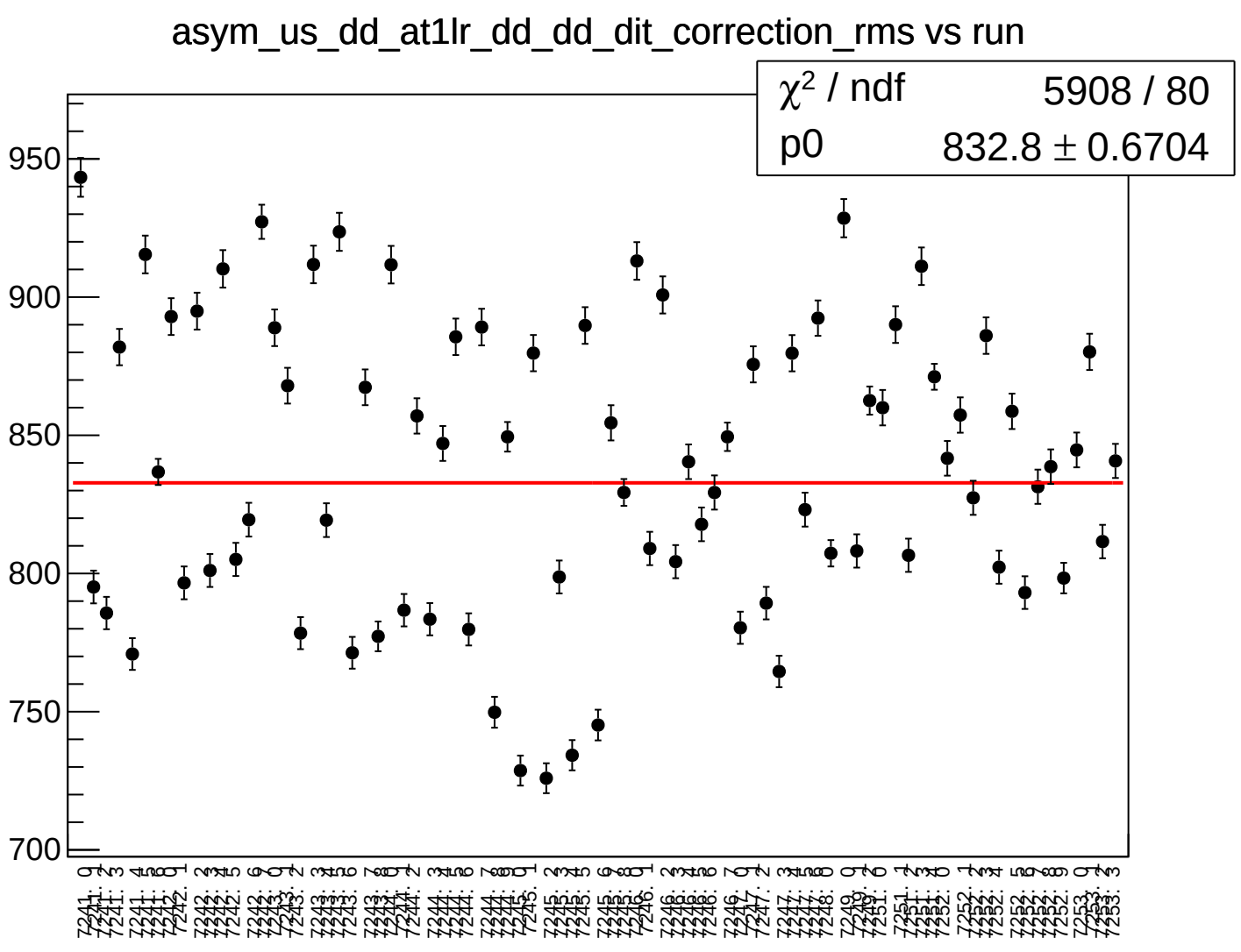

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 77.08 / 80
p0 857.6 ± 1965
pull
Entries 81
Mean −240.2
Std Dev 0

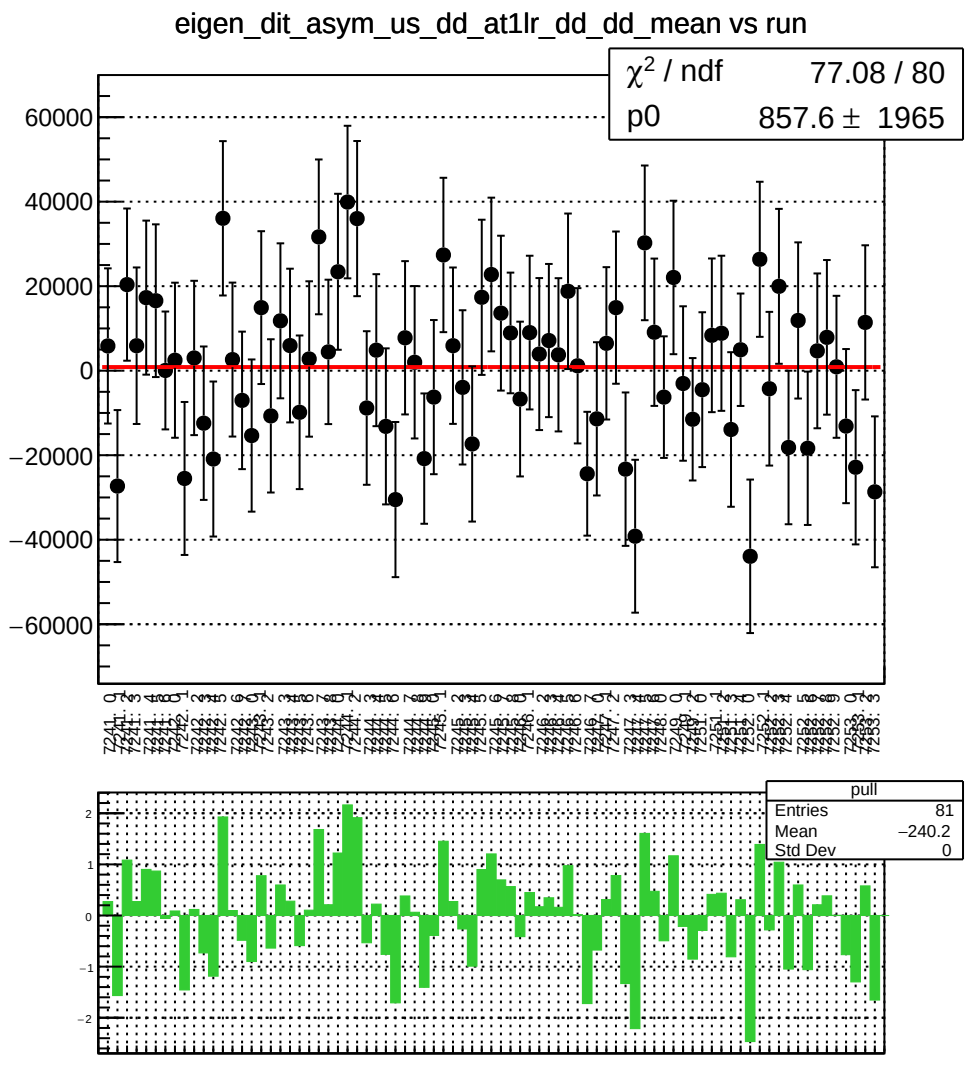

pull1D
Entries 81
Mean 0.0113
Std Dev 0.9754

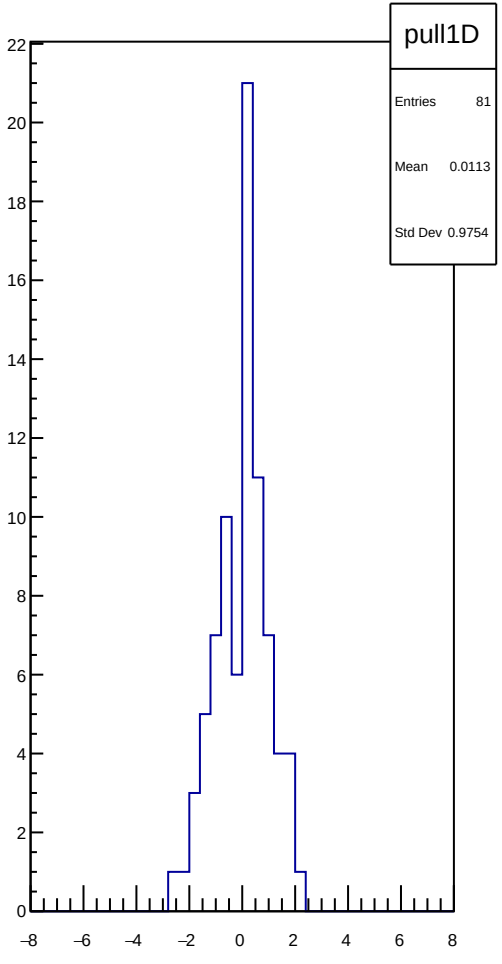

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 80.99 / 80
p0 1730 ± 1.39
1770
1760
1750
1740
1730
1720
1710
1700
1690

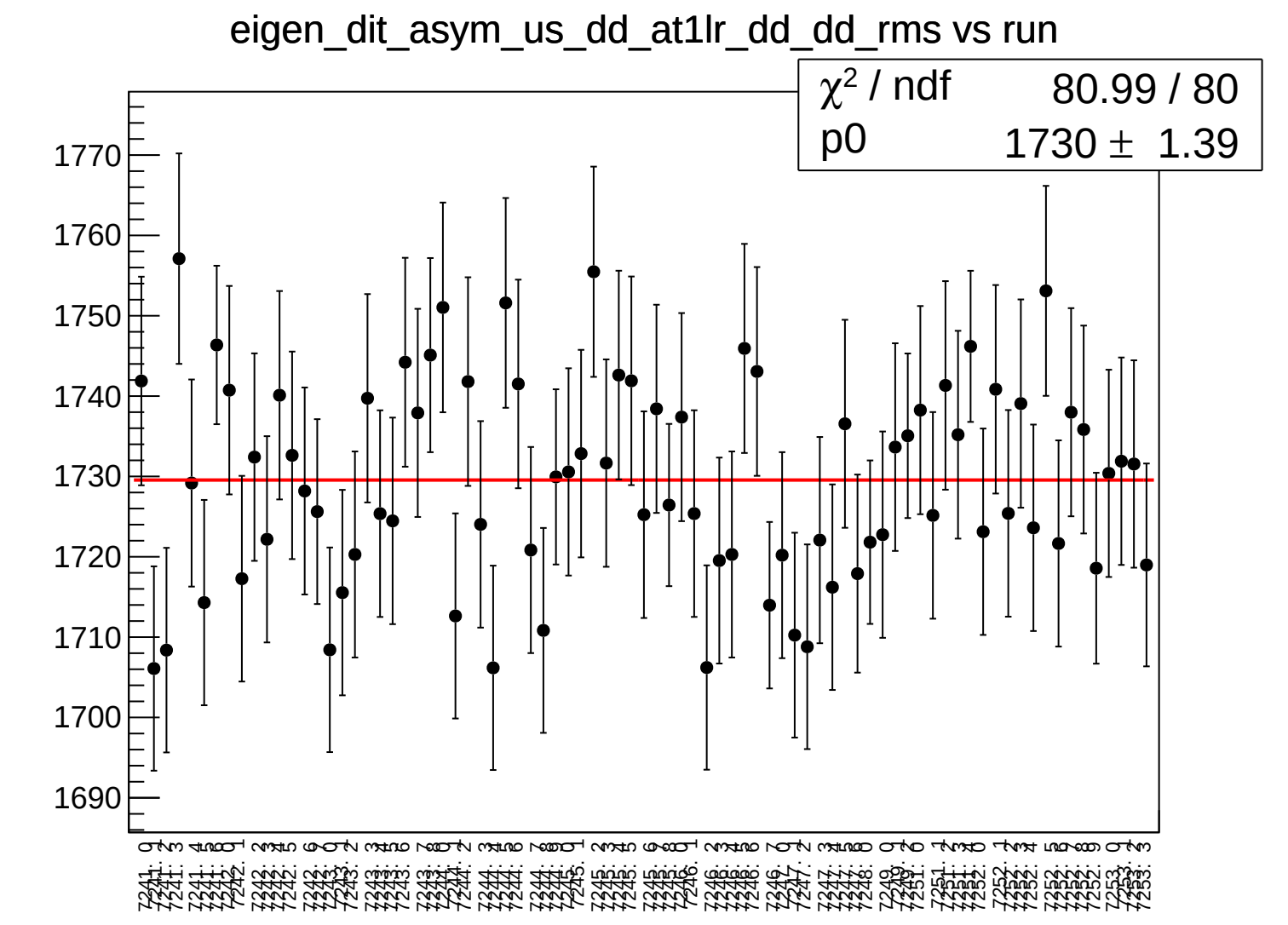

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
χ² / ndf 88.48 / 80
p0 −1813 ± 948
pull
Entries 81
Mean 92.04
Std Dev 0

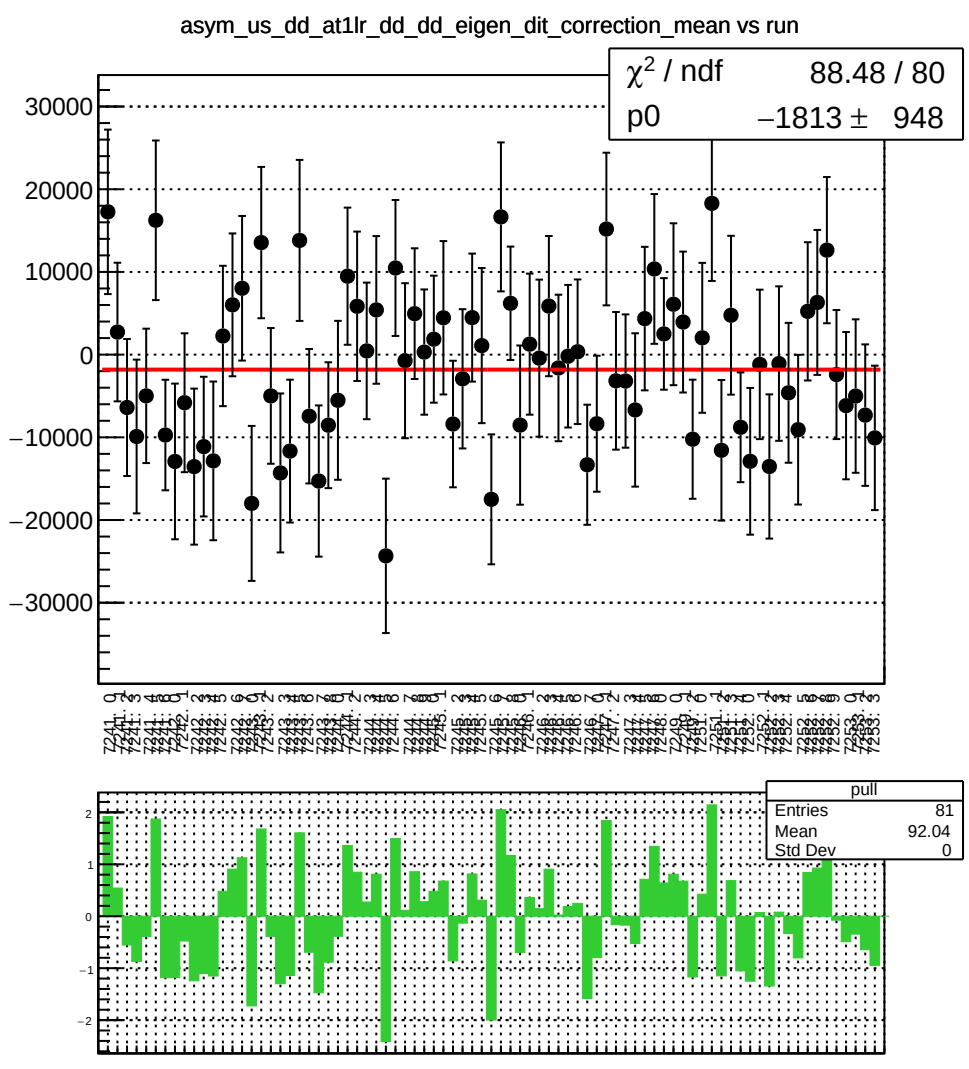

pull1D
Entries 81
Mean 0.01588
Std Dev 1.045

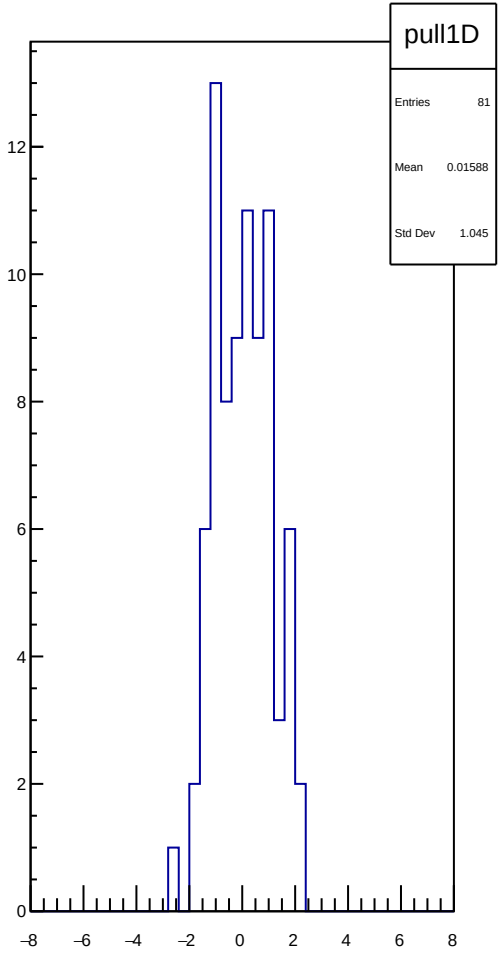

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 5908 / 80
p0 832.8 ± 0.6704
950
900
850
800
750
700

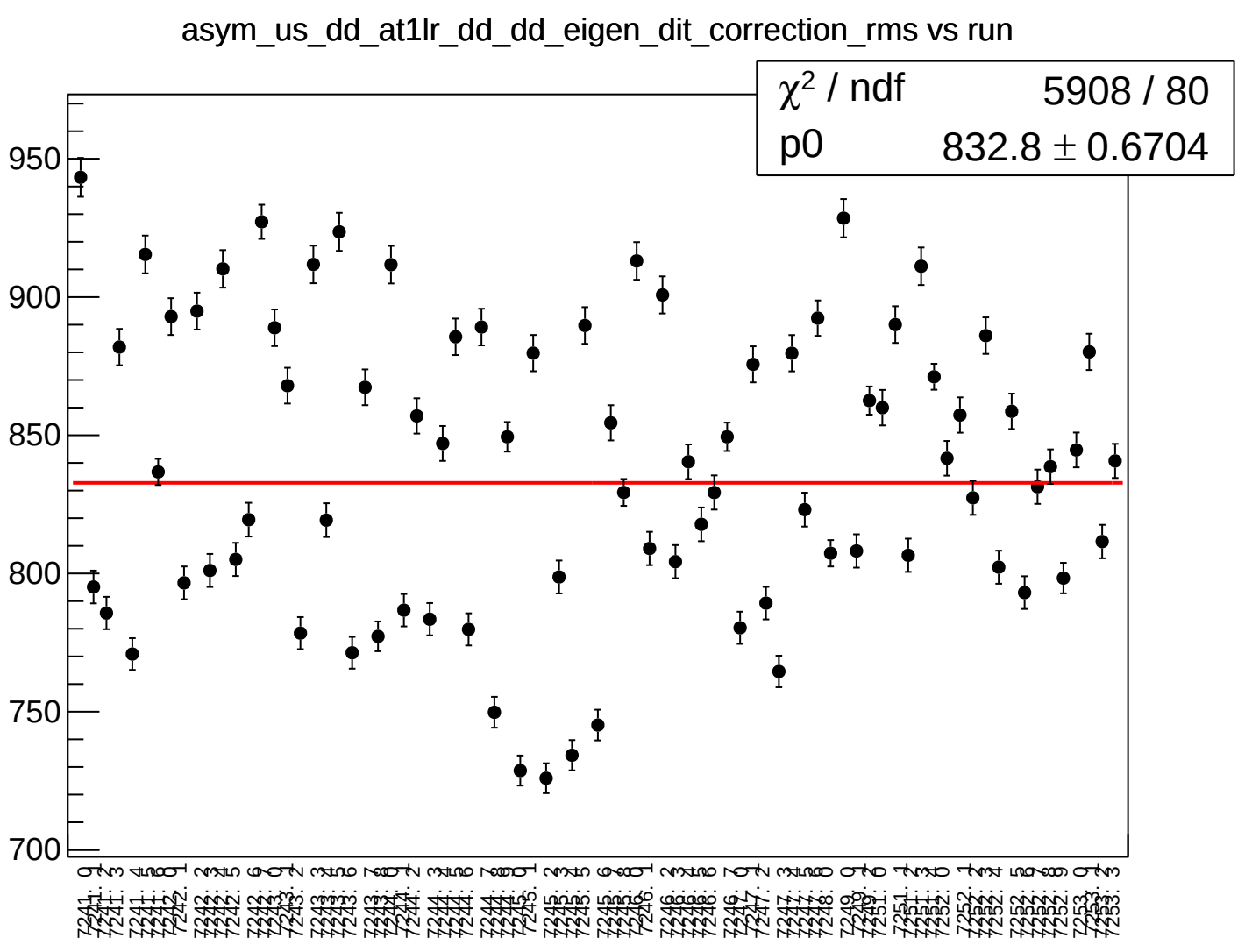

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 77.08 / 80
p0 857.6 ± 1965
pull
Entries 81
Mean −240.2
Std Dev 0

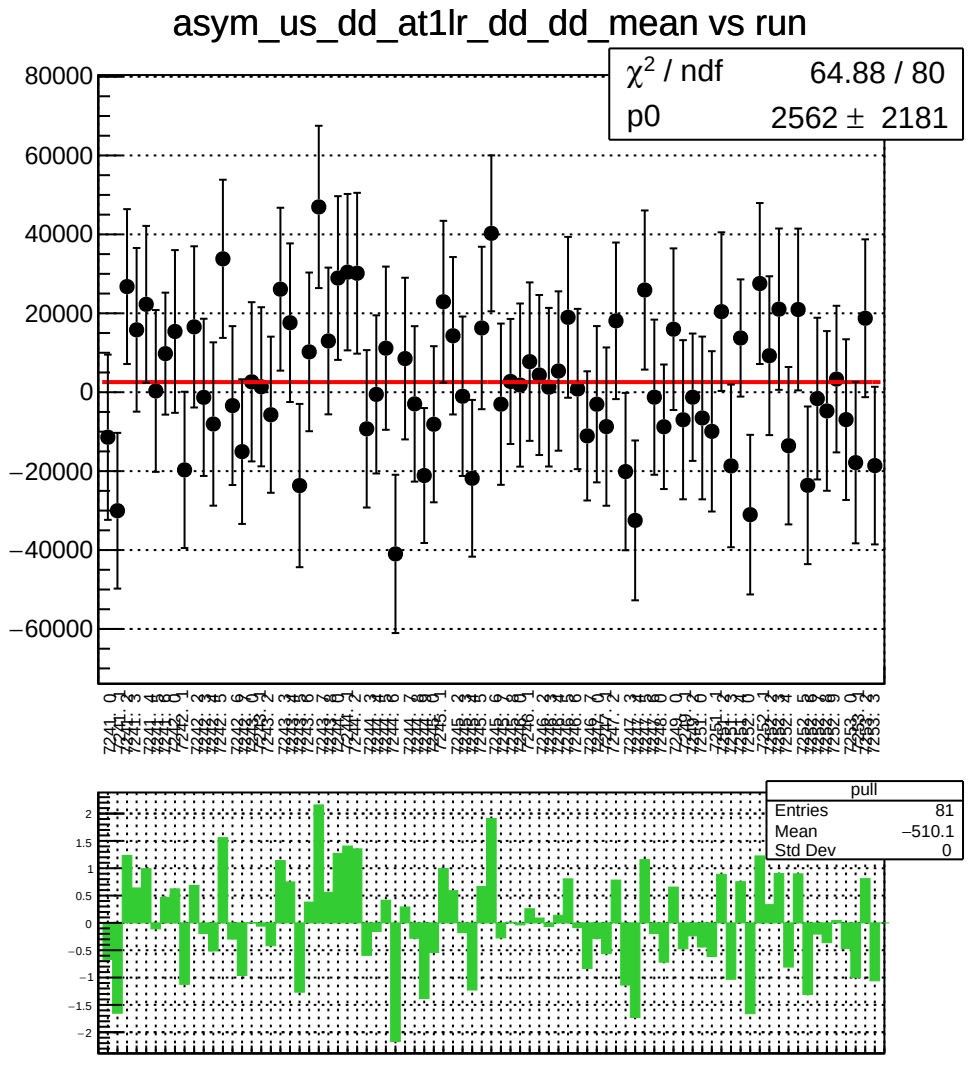

pull1D
Entries 81
Mean 0.0113
Std Dev 0.9754

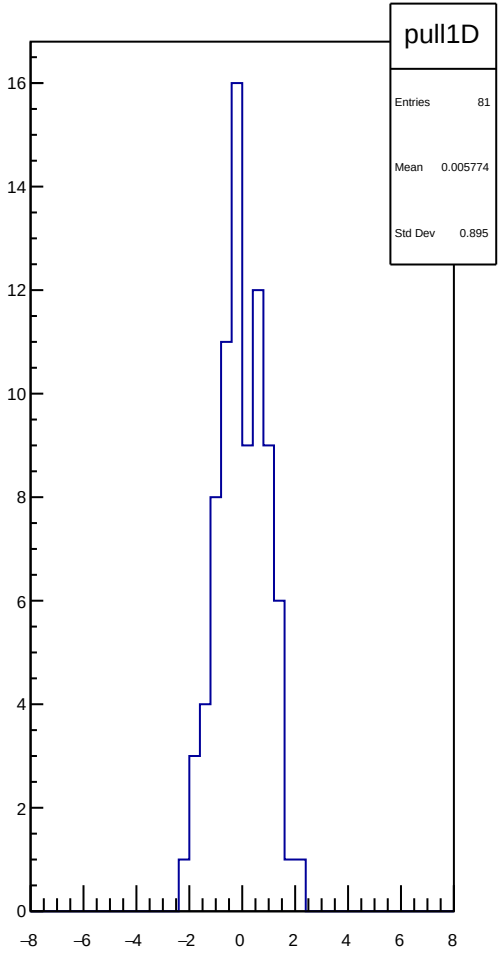

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 80.99 / 80
p0 1730 ± 1.39
1770
1760
1750
1740
1730
1720
1710
1700
1690

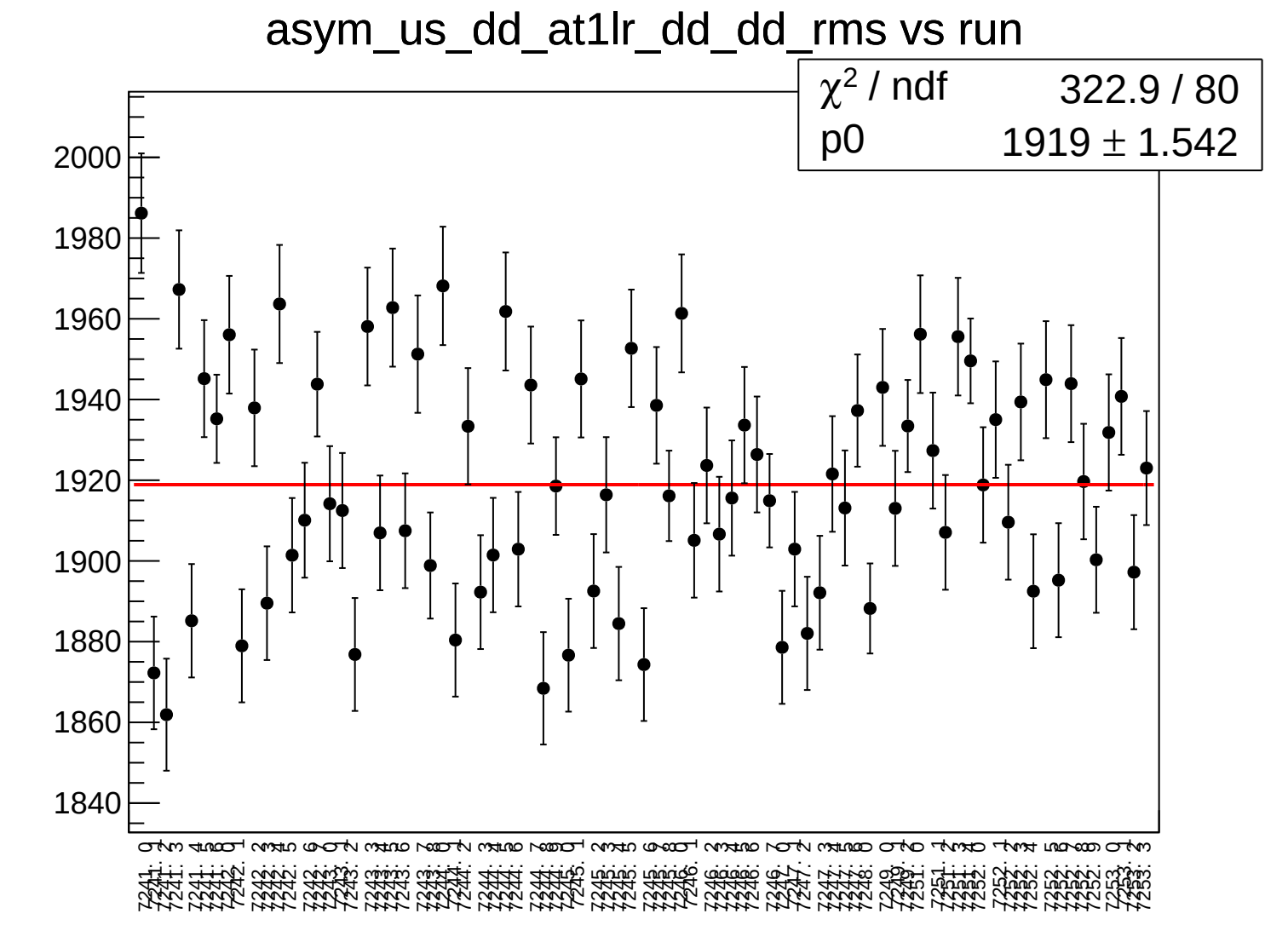

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 88.48 / 80
p0 −1813 ± 948
pull
Entries 81
Mean 92.04
Std Dev 0

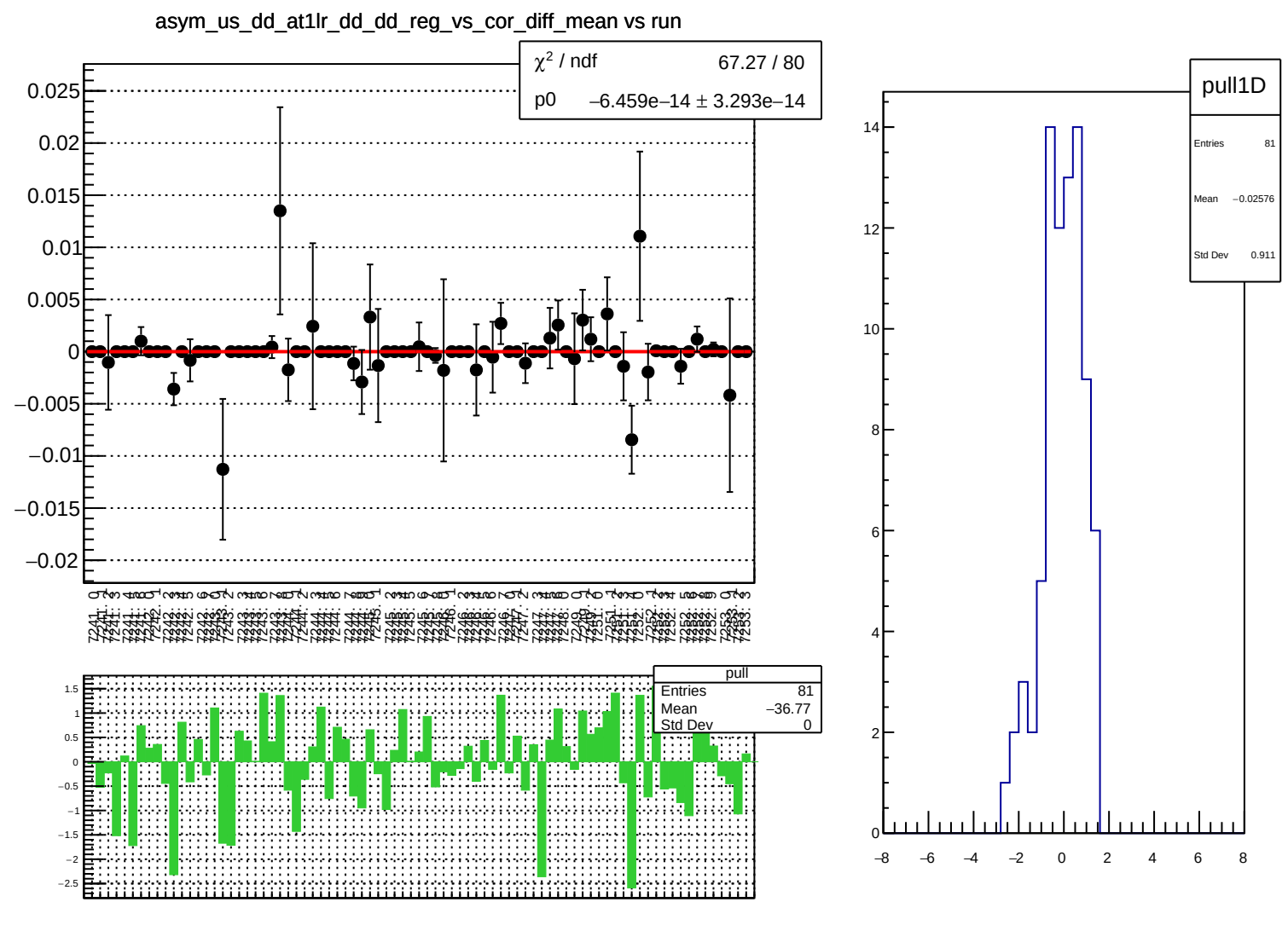

pull1D
Entries 81
Mean 0.01588
Std Dev 1.045

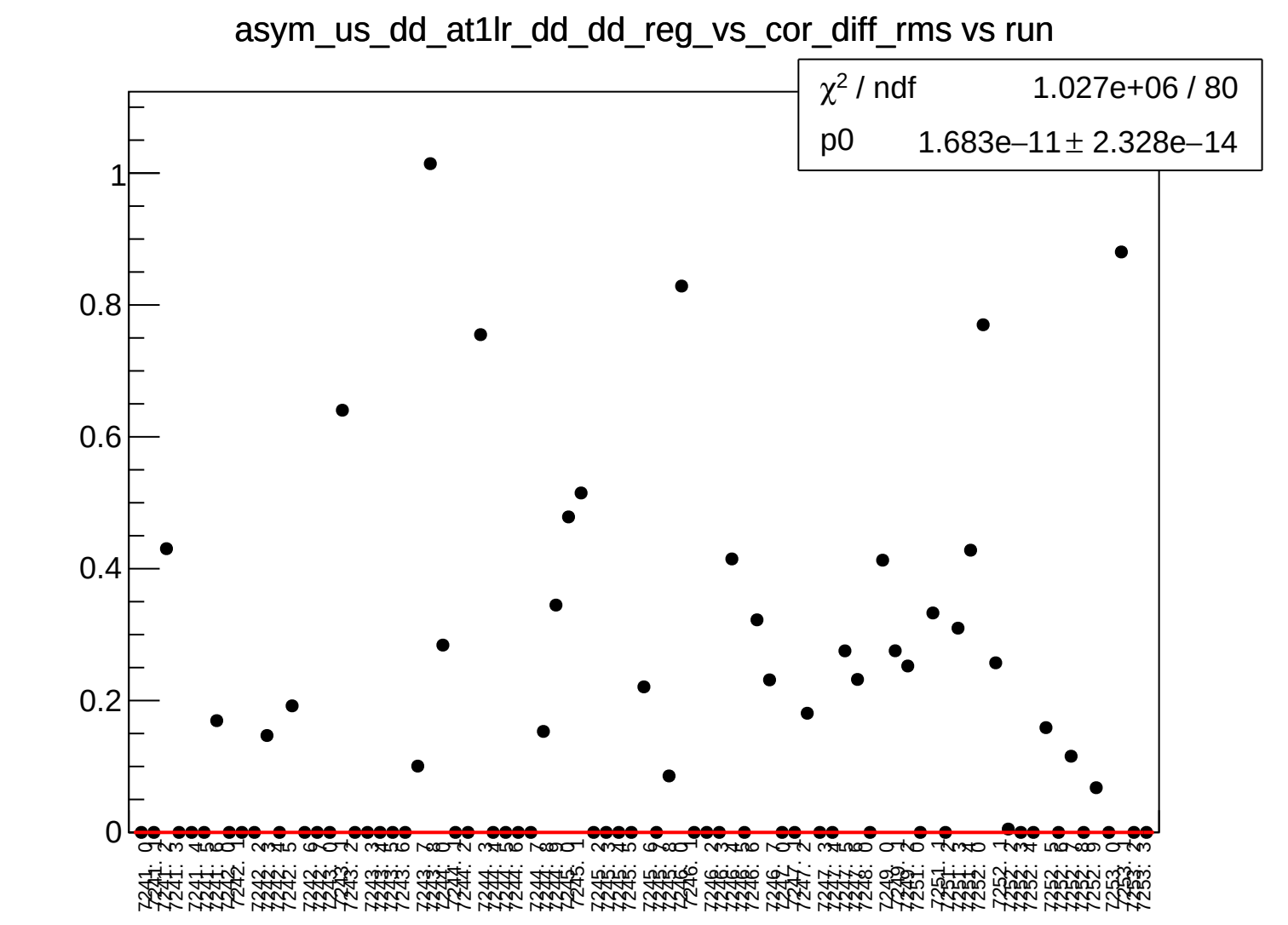

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 5908 / 80
p0 832.8 ± 0.6704
950
900
850
800
750
700

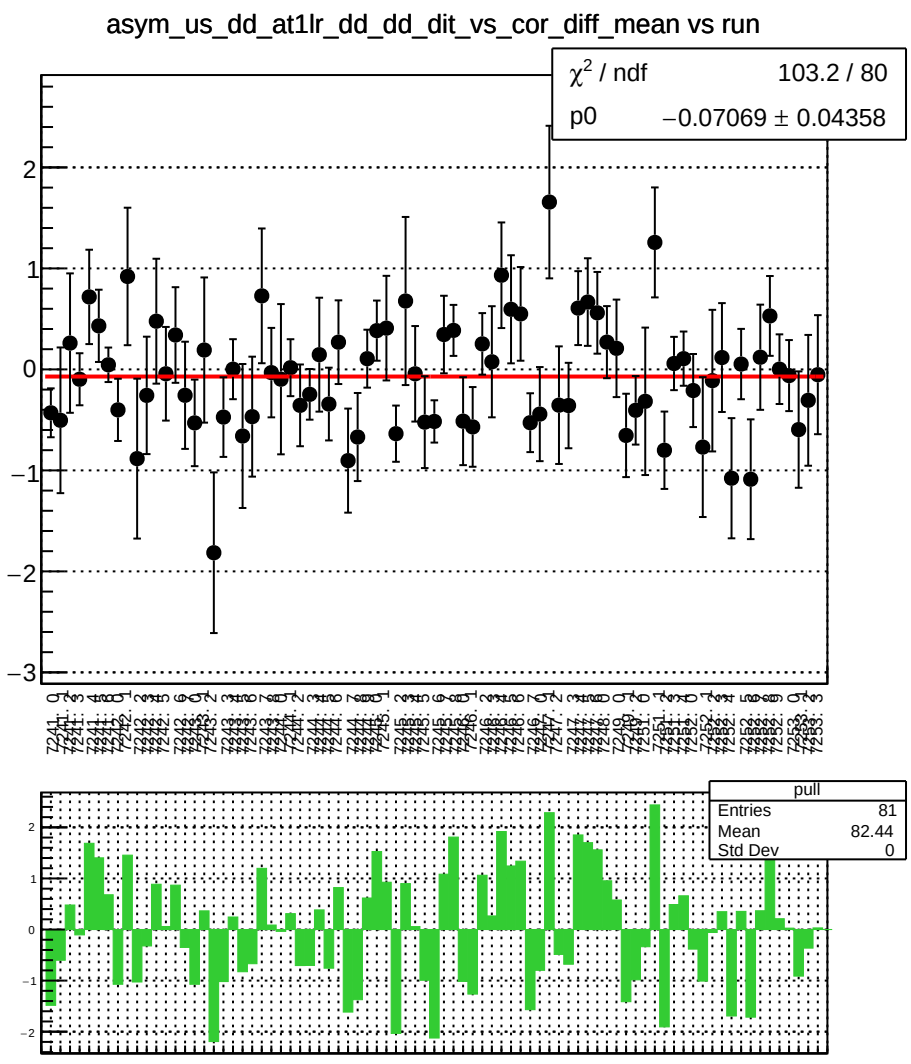

asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 64.88 / 80
p0 2562 ± 2181
pull
Entries 81
Mean −510.1
Std Dev 0

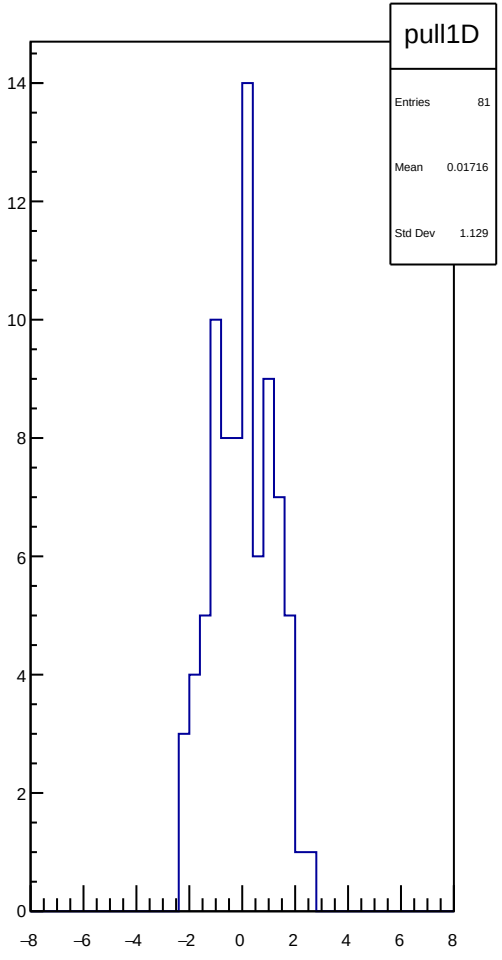

pull1D
Entries 81
Mean 0.005774
Std Dev 0.895

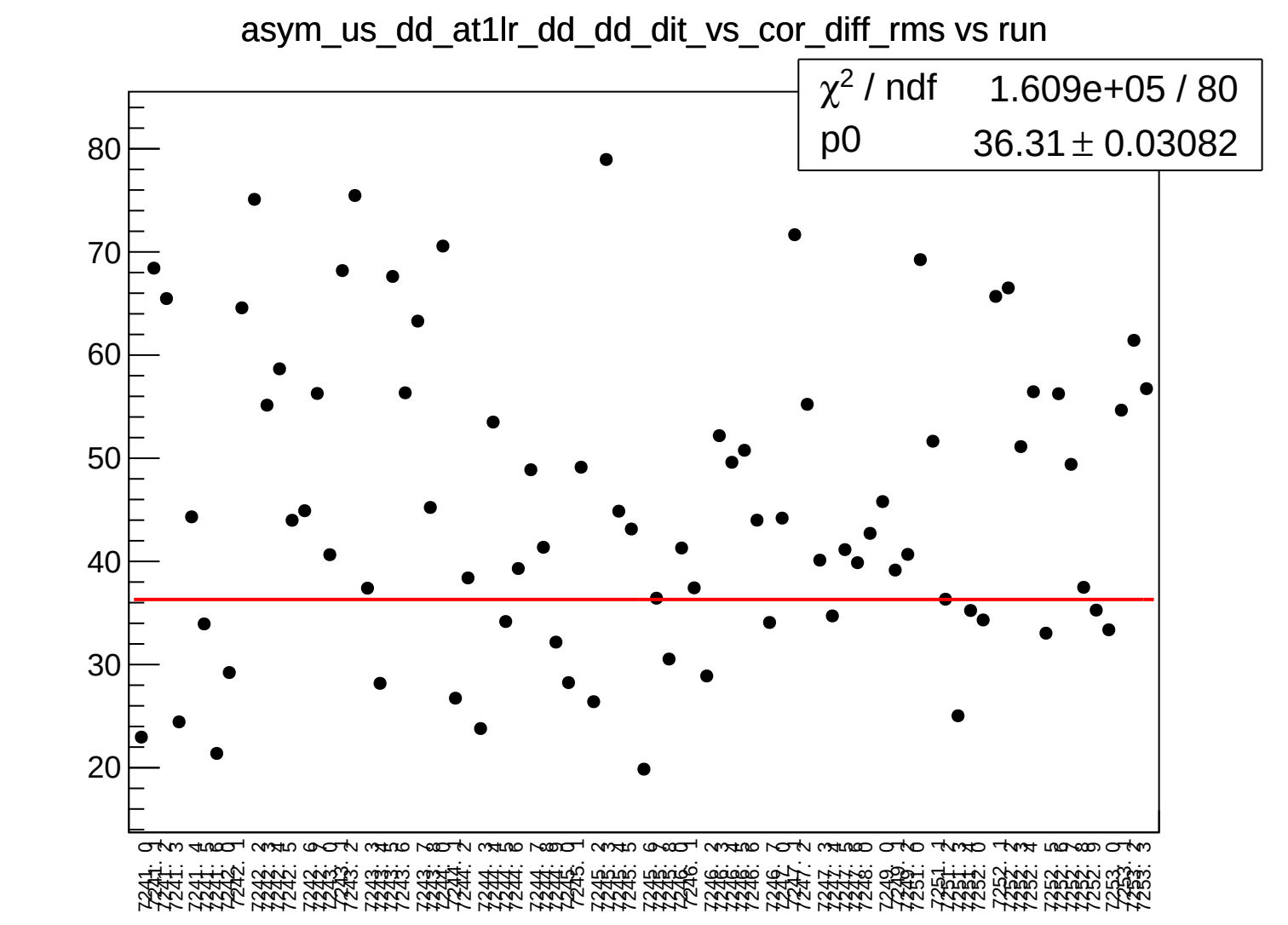

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 322.9 / 80
p0 1919 ± 1.542
2000
1980
1960
1940
1920
1900
1880
1860
1840

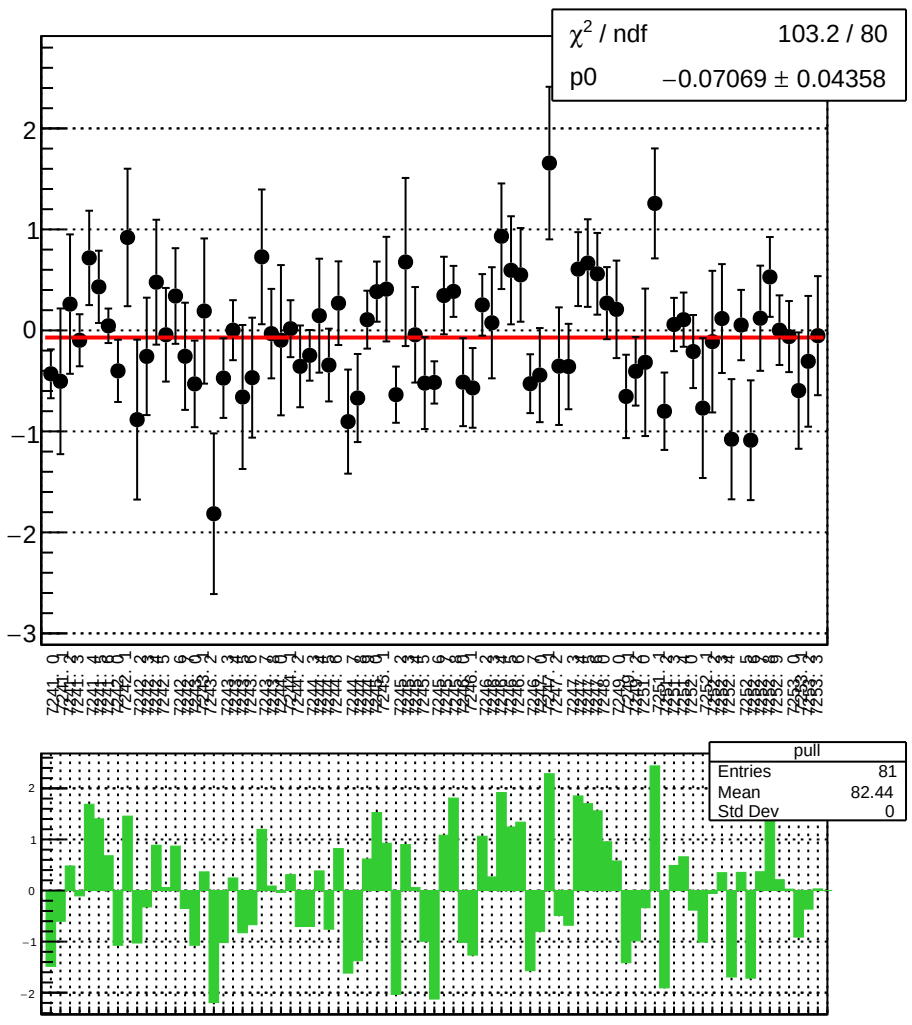

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 67.27 / 80
p0 −6.459e−14 ± 3.293e−14
pull
Entries 81
Mean −36.77
Std Dev 0
pull1D
Entries 81
Mean −0.02576
Std Dev 0.911

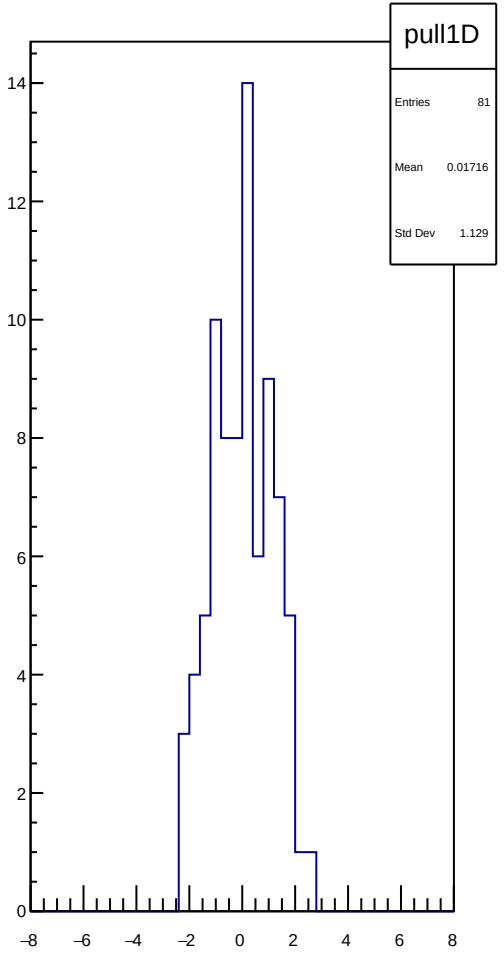

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.027e+06 / 80
p0 1.683e−11 ± 2.328e−14
1
0.8
0.6
0.4
0.2
0

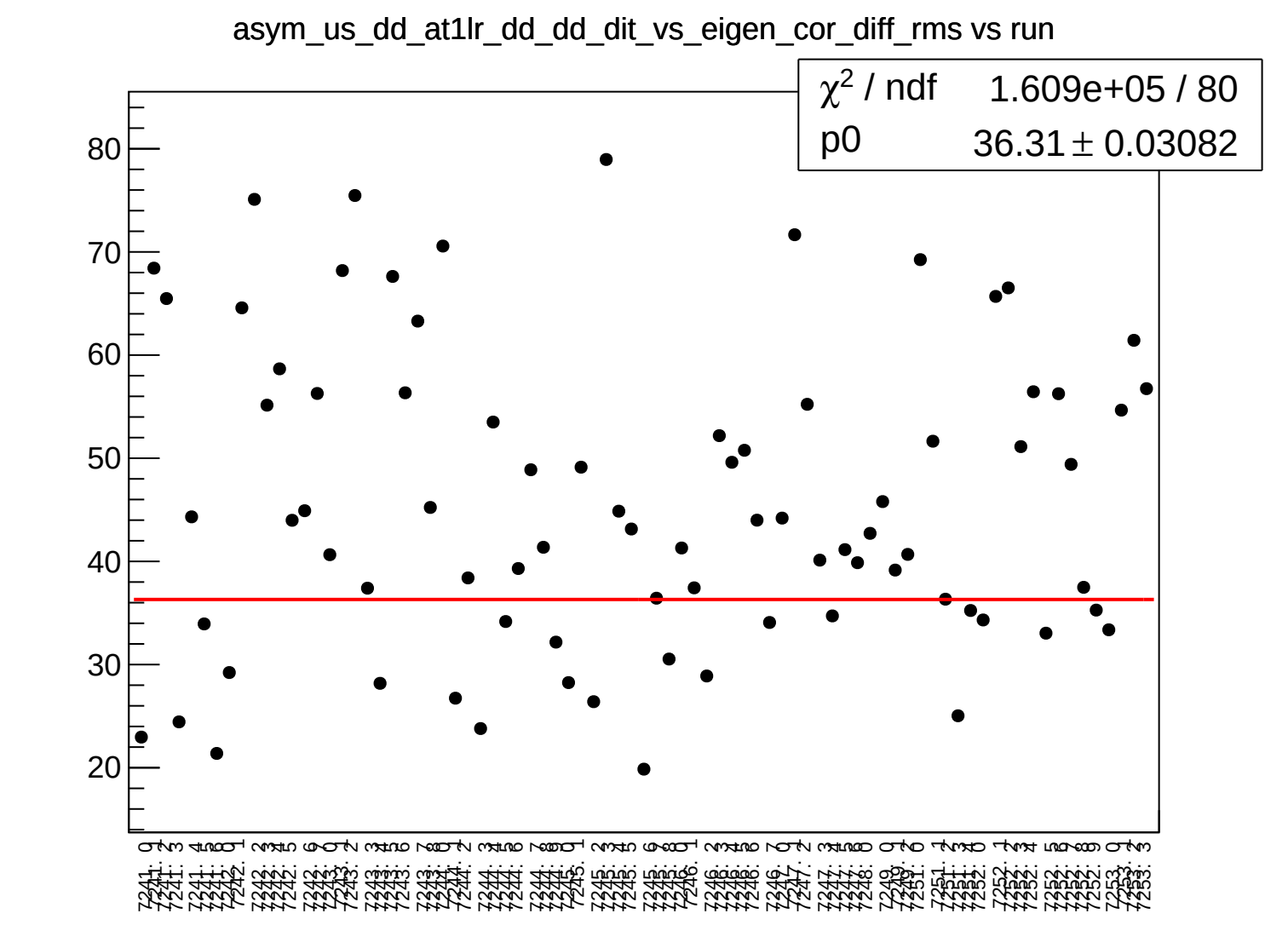

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 103.2 / 80
p0 −0.07069 ± 0.04358
pull
Entries 81
Mean 82.44
Std Dev 0

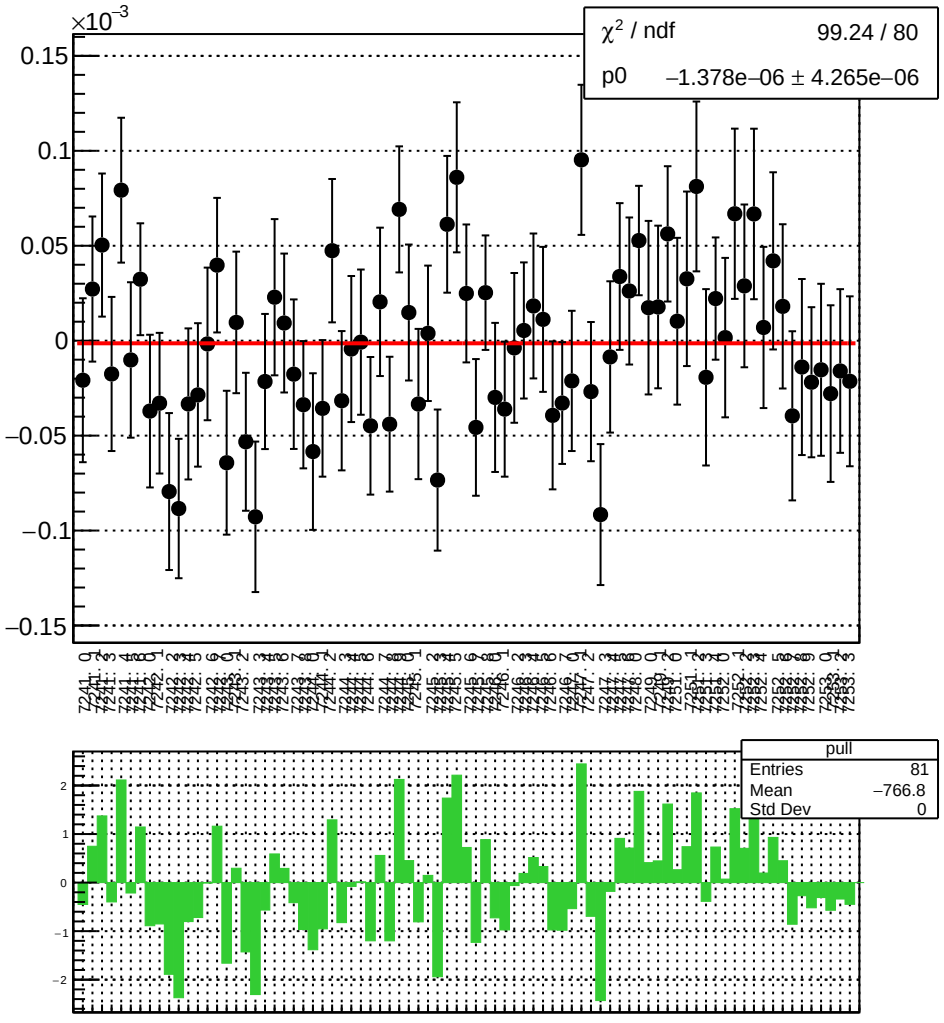

pull1D
Entries 81
Mean 0.01716
Std Dev 1.129

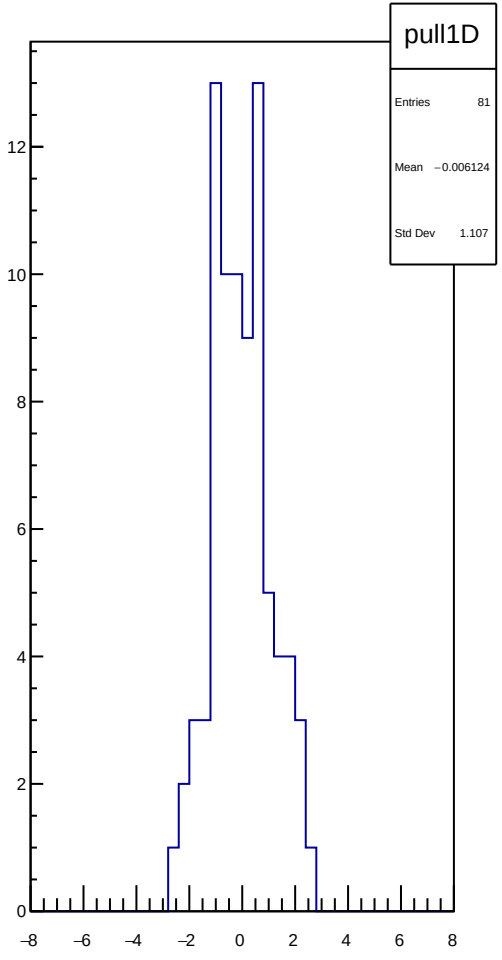

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.609e+05 / 80
p0 36.31 ± 0.03082
80
70
60
50
40
30
20

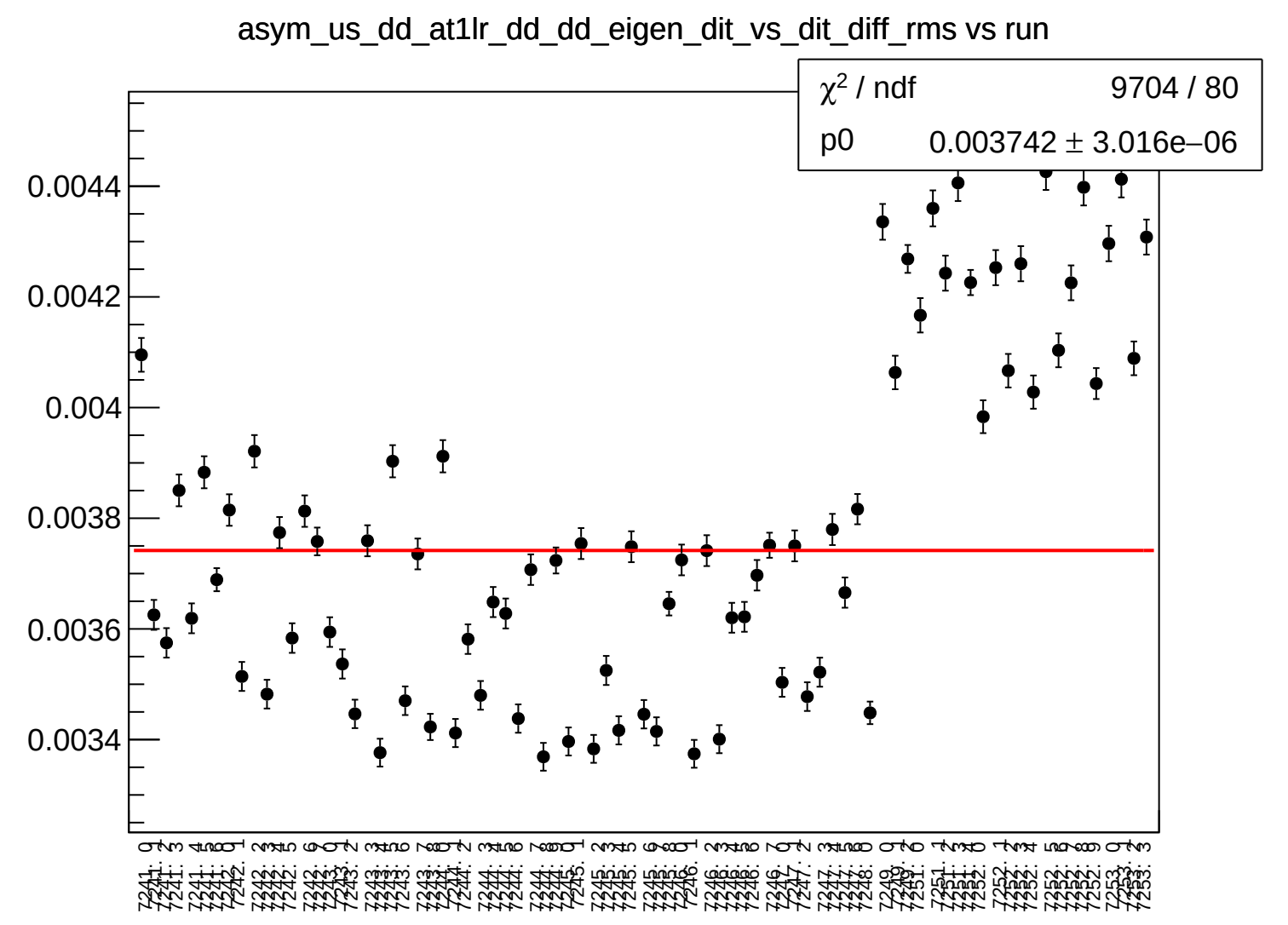

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.2 / 80
p0 −0.07069 ± 0.04358
pull
Entries 81
Mean 82.44
Std Dev 0

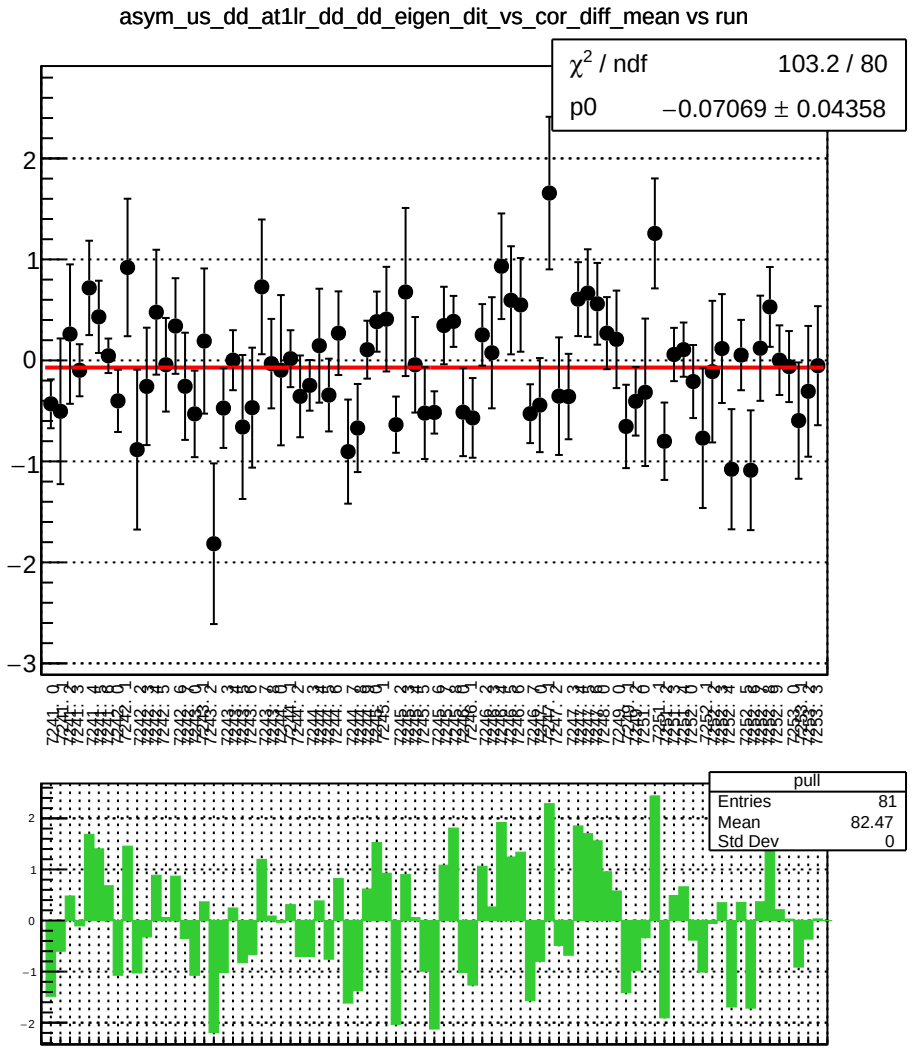

pull1D
Entries 81
Mean 0.01716
Std Dev 1.129

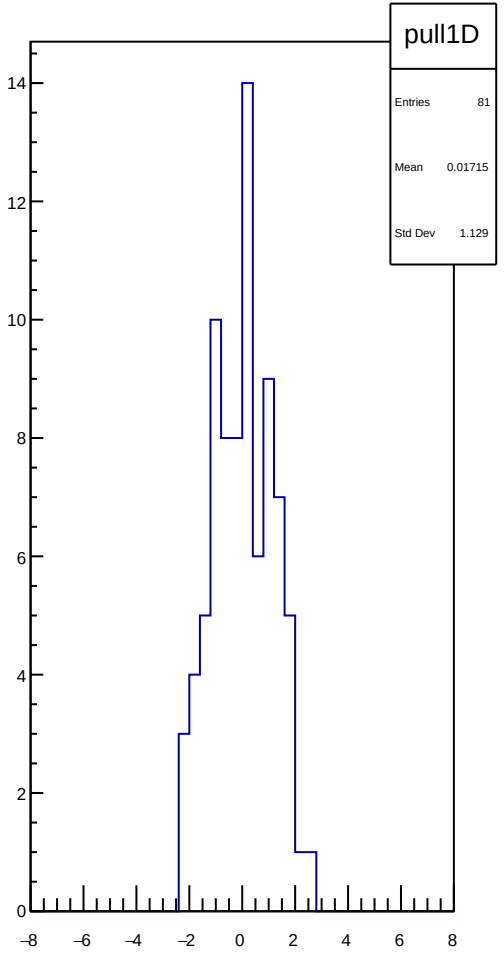

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.609e+05 / 80
p0 36.31 ± 0.03082
80
70
60
50
40
30
20

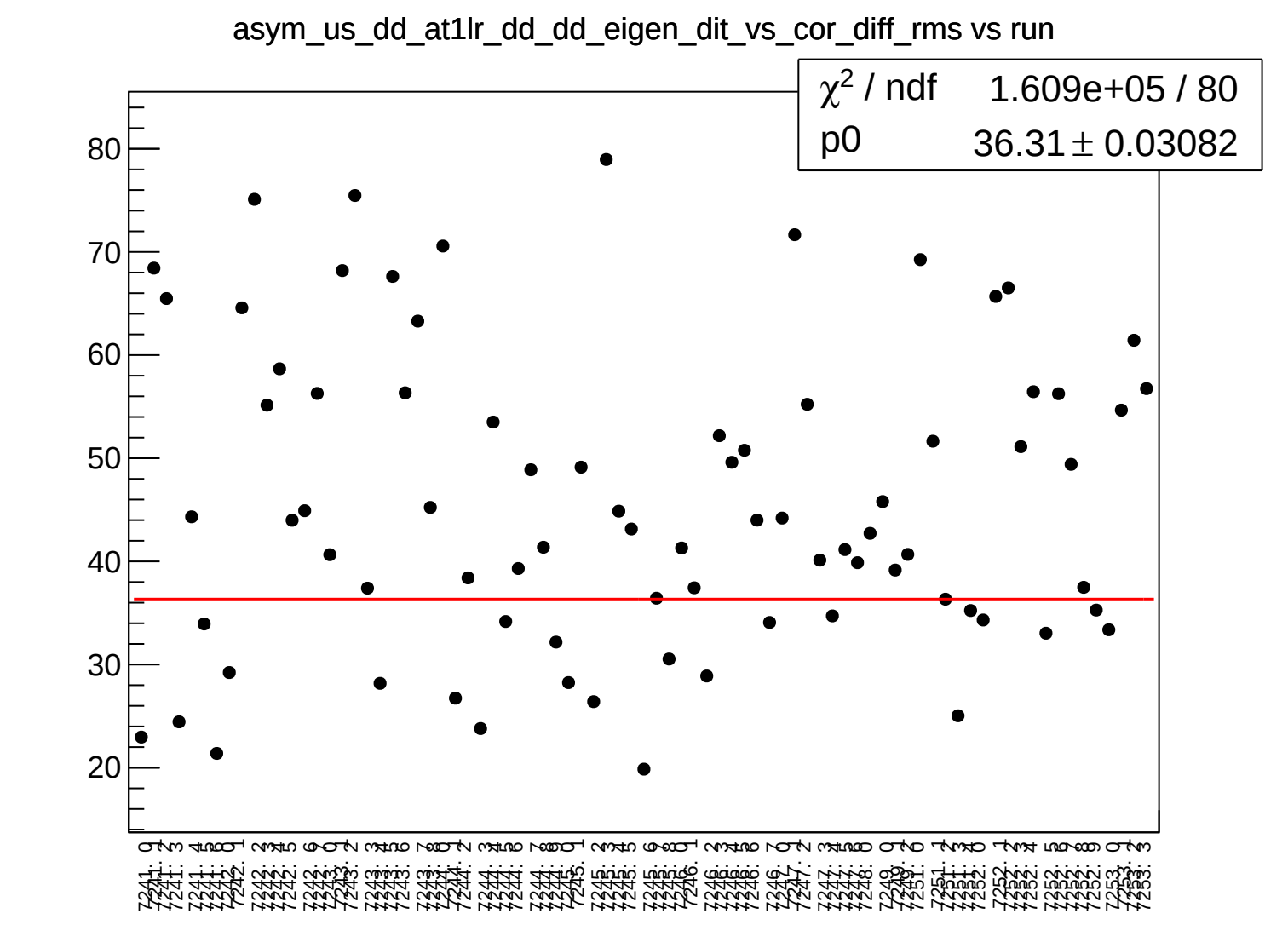

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.24 / 80
p0 −1.378e−06 ± 4.265e−06
pull
Entries 81
Mean −766.8
Std Dev 0

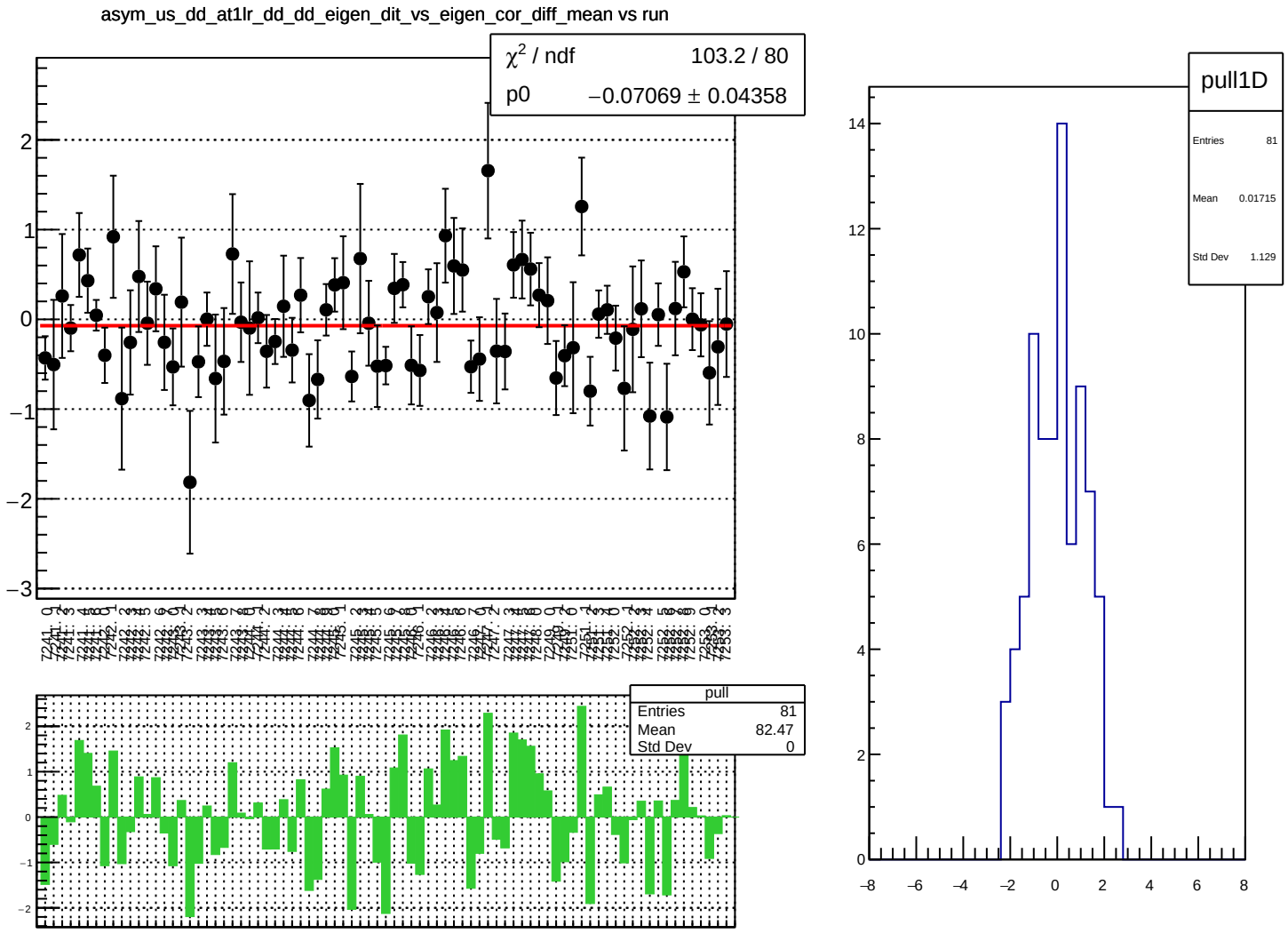

pull1D
Entries 81
Mean −0.006124
Std Dev 1.107

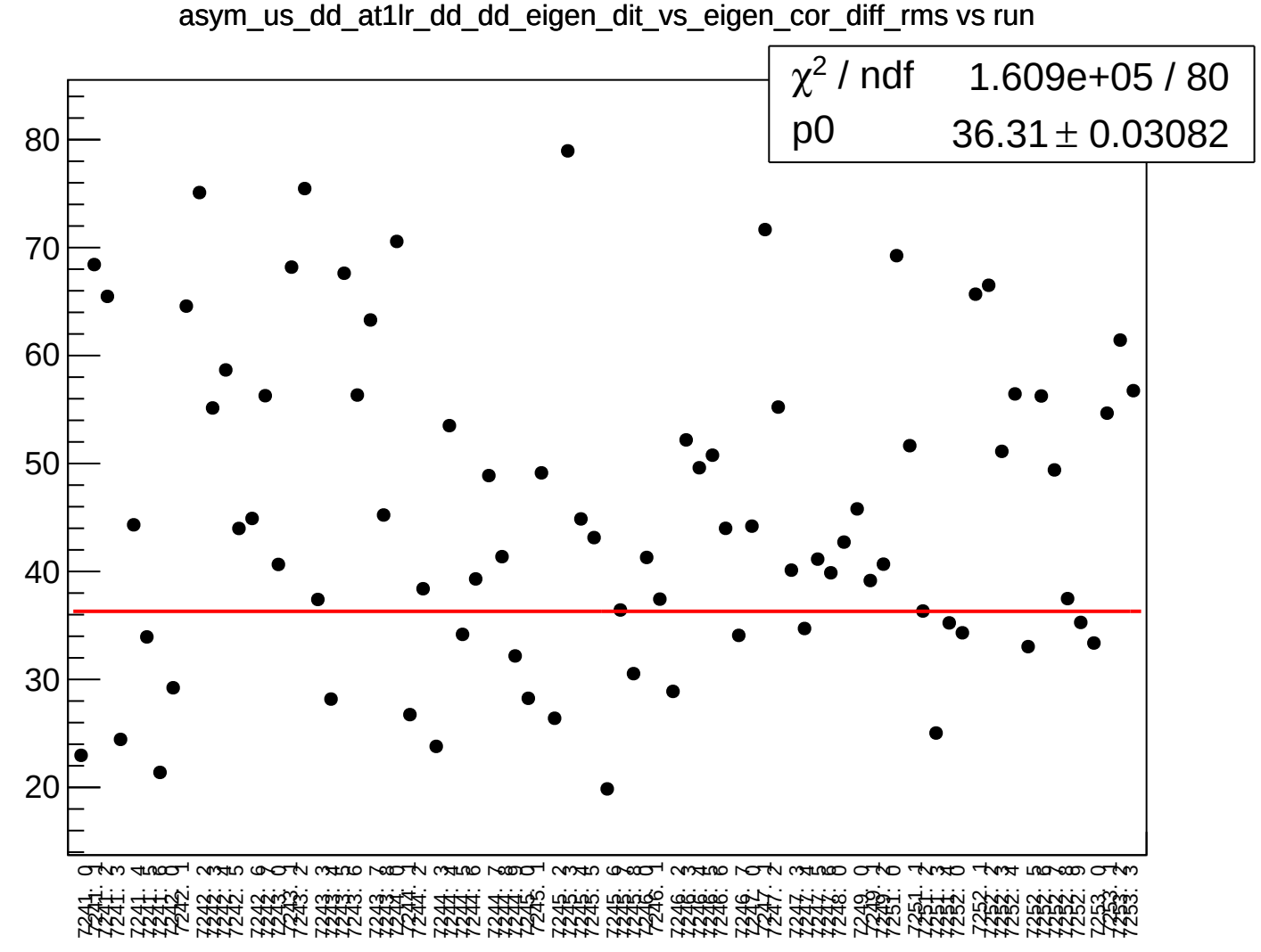

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9704 / 80
p0 0.003742 ± 3.016e−06
0.0044
0.0042
0.004
0.0038
0.0036
0.0034

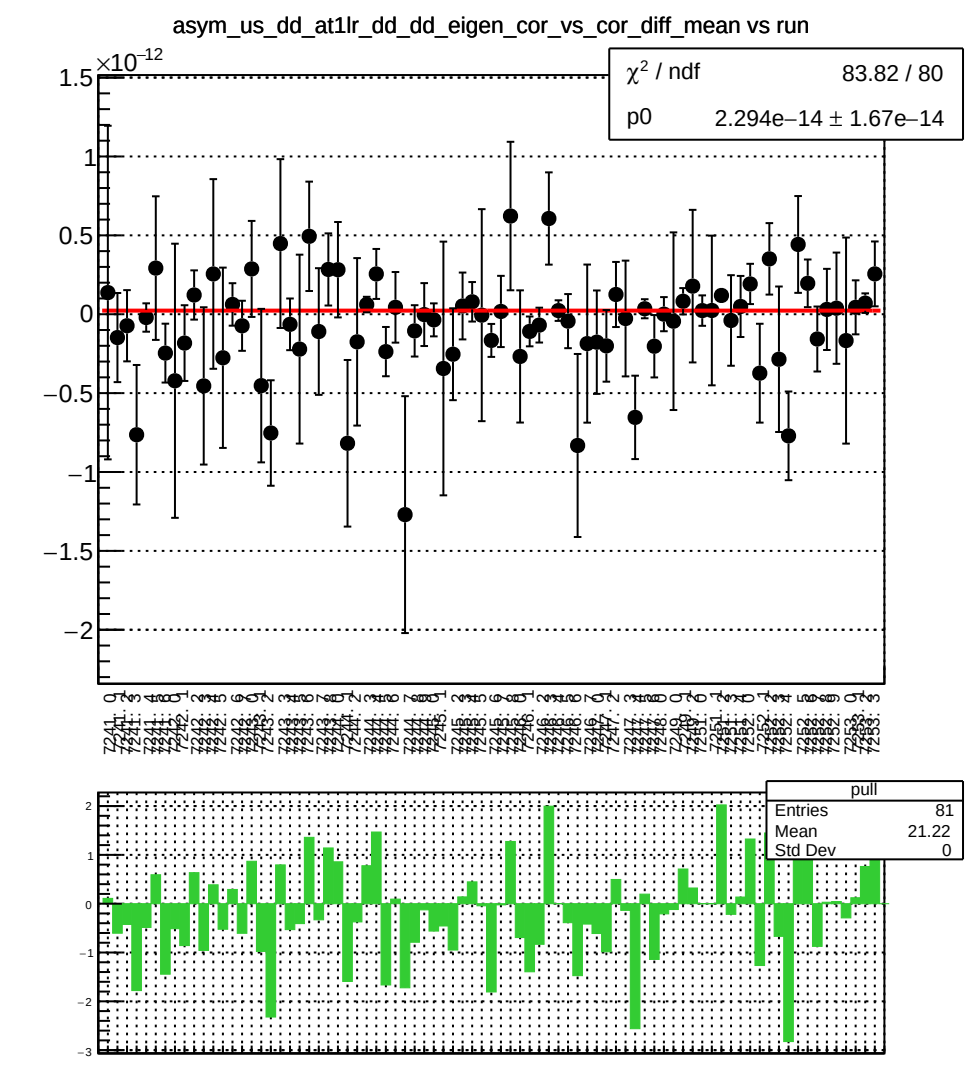

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103.2 / 80
p0 −0.07069 ± 0.04358
pull
Entries 81
Mean 82.47
Std Dev 0

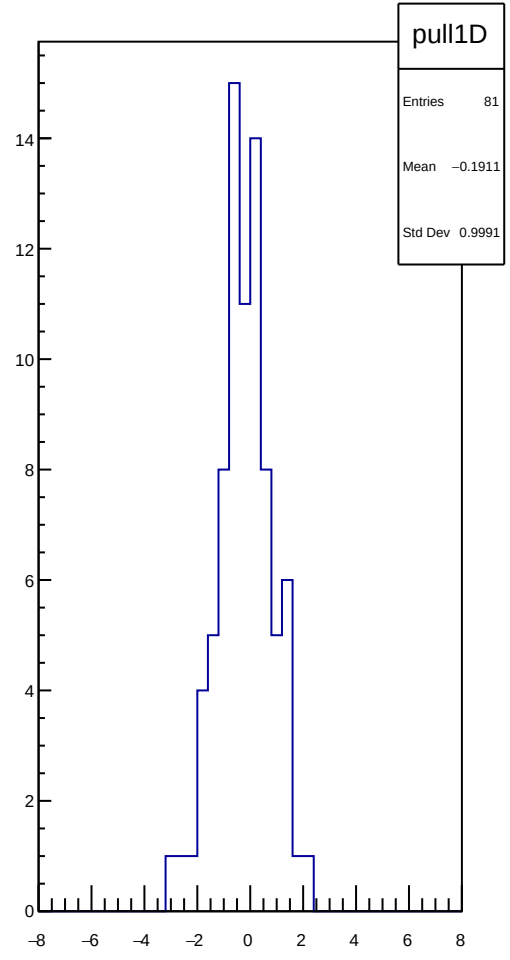

pull1D
Entries 81
Mean 0.01715
Std Dev 1.129

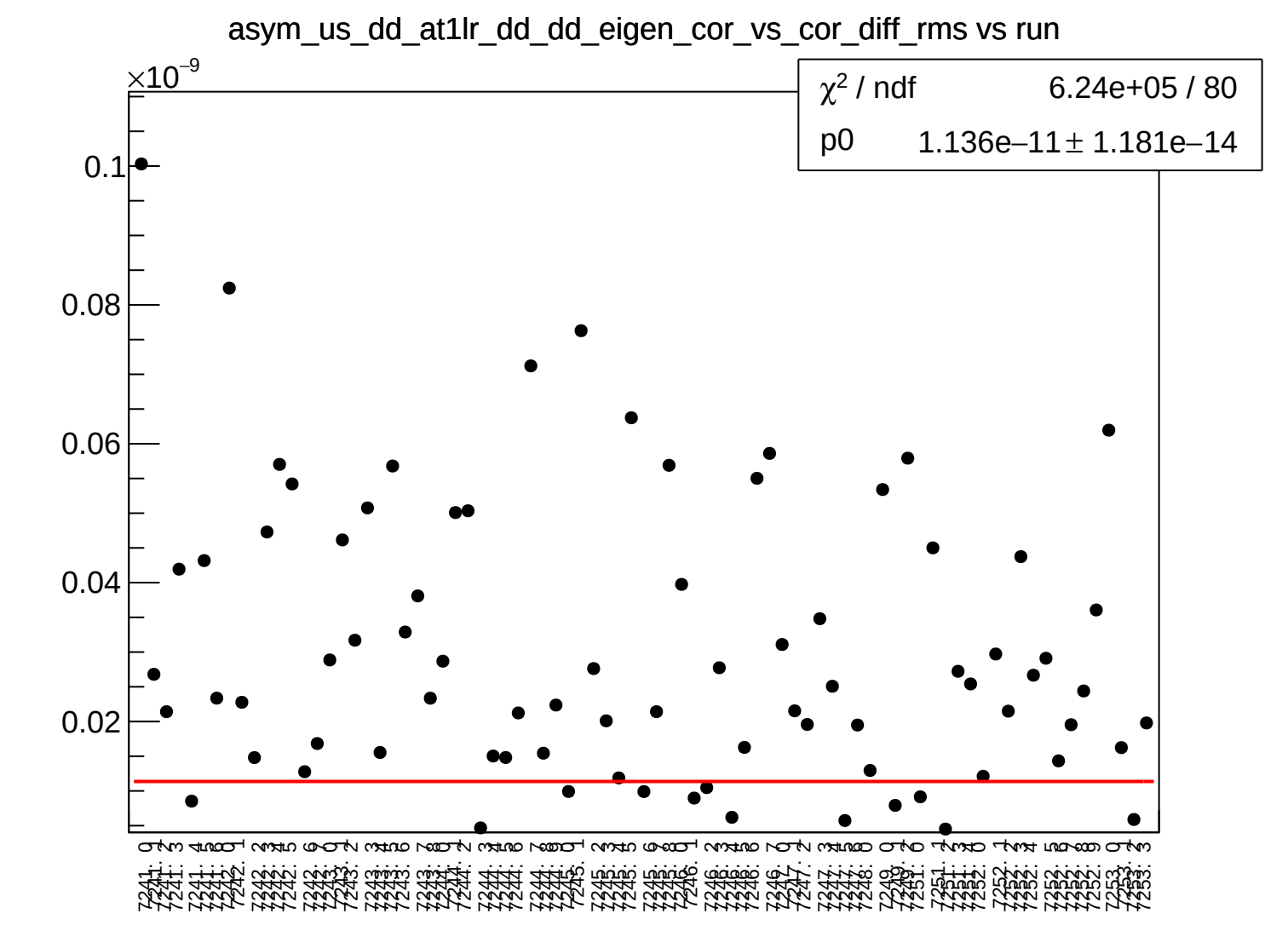

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.609e+05 / 80
p0 36.31 ± 0.03082
80
70
60
50
40
30
20

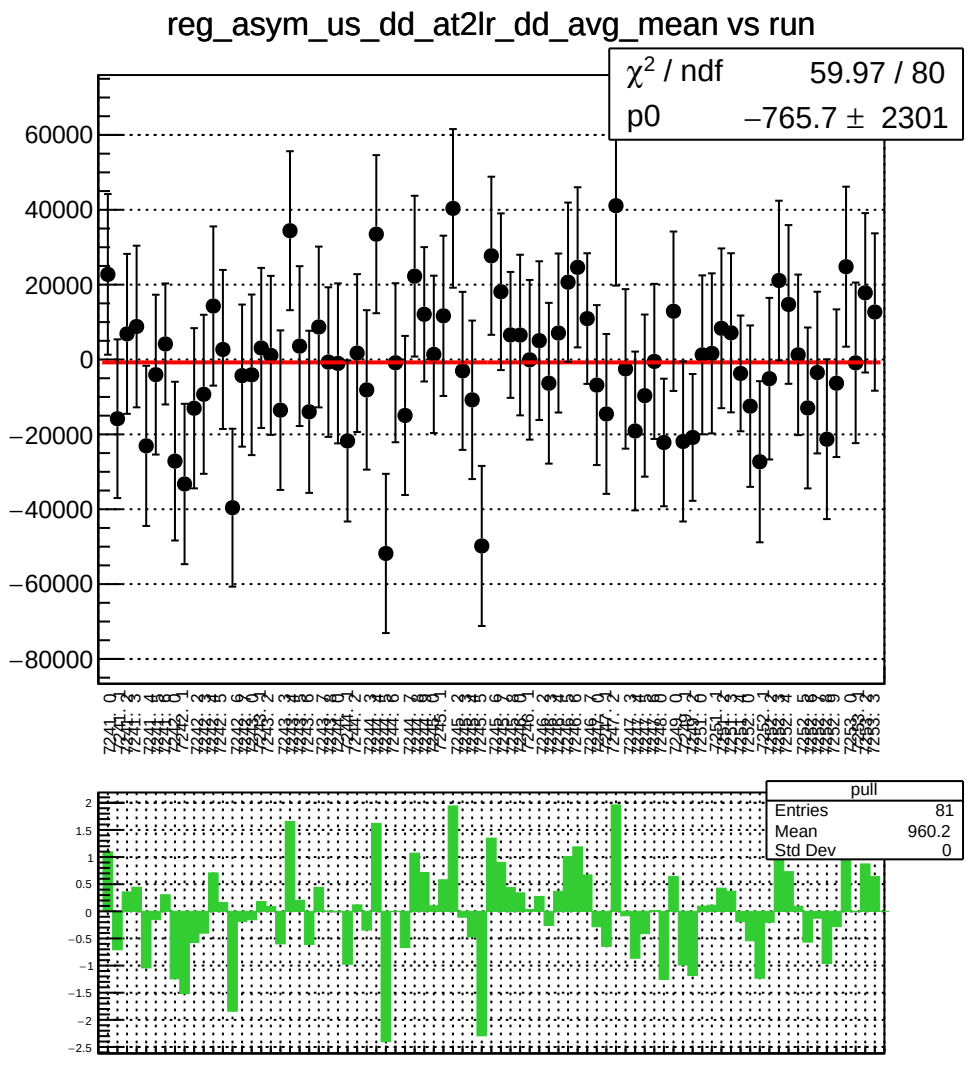

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.2 / 80
p0 −0.07069 ± 0.04358
pull
Entries 81
Mean 82.47
Std Dev 0
pull1D
Entries 81
Mean 0.01715
Std Dev 1.129

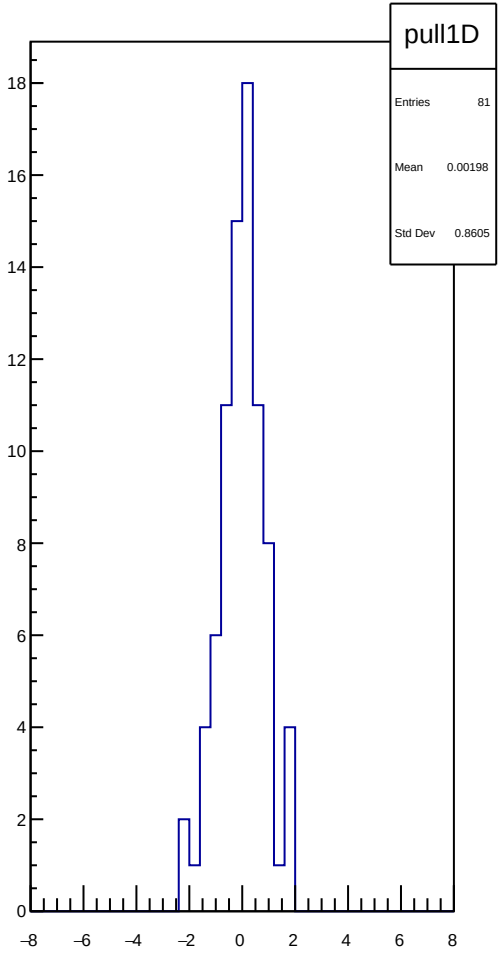

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.609e+05 / 80
p0 36.31 ± 0.03082
80
70
60
50
40
30
20

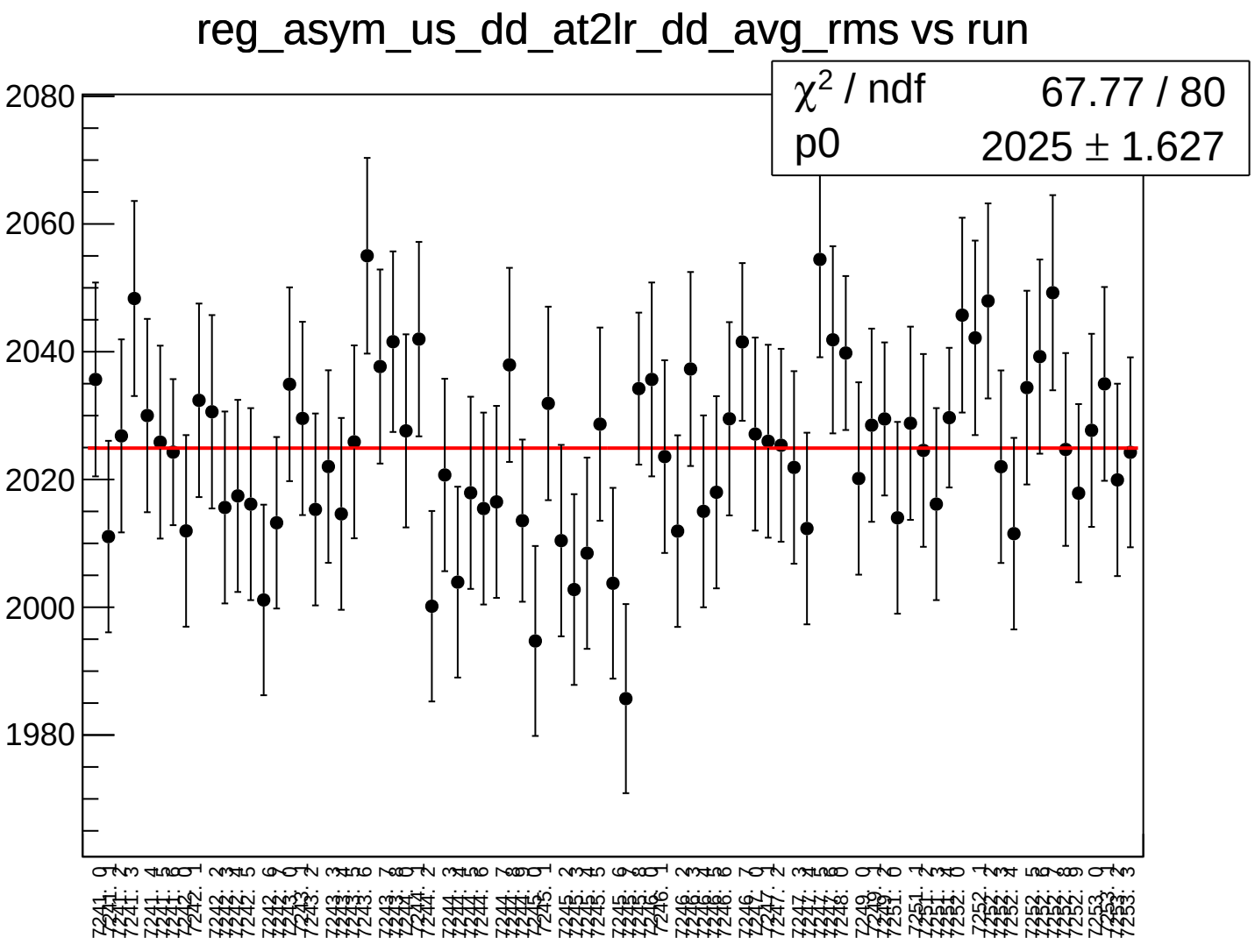

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.82 / 80
p0 2.294e−14 ± 1.67e−14
pull
Entries 81
Mean 21.22
Std Dev 0

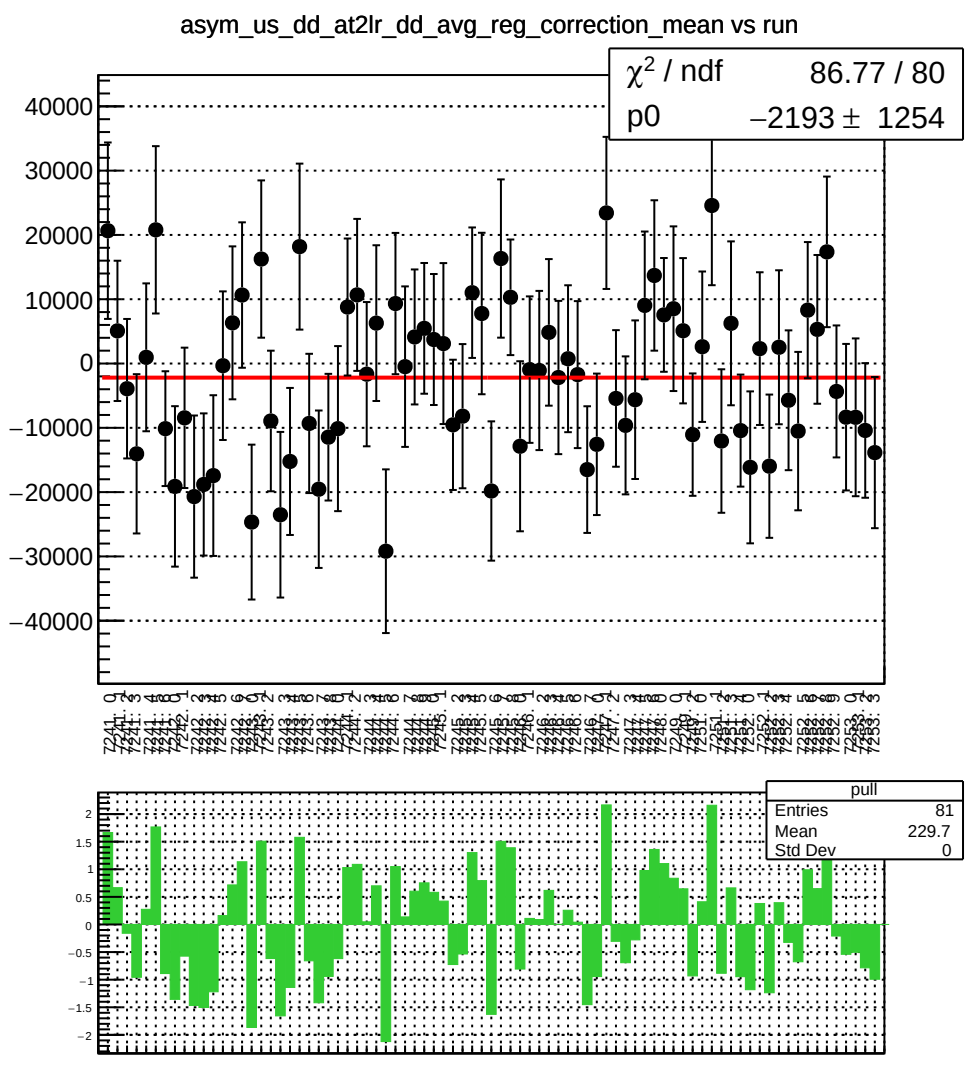

pull1D
Entries 81
Mean −0.1911
Std Dev 0.9991

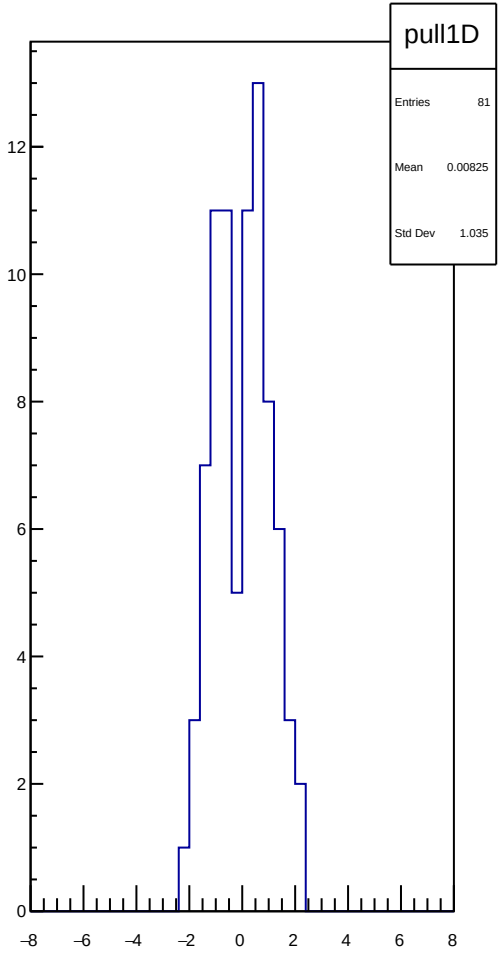

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.24e+05 / 80
p0 1.136e−11 ± 1.181e−14
0.1
0.08
0.06
0.04
0.02

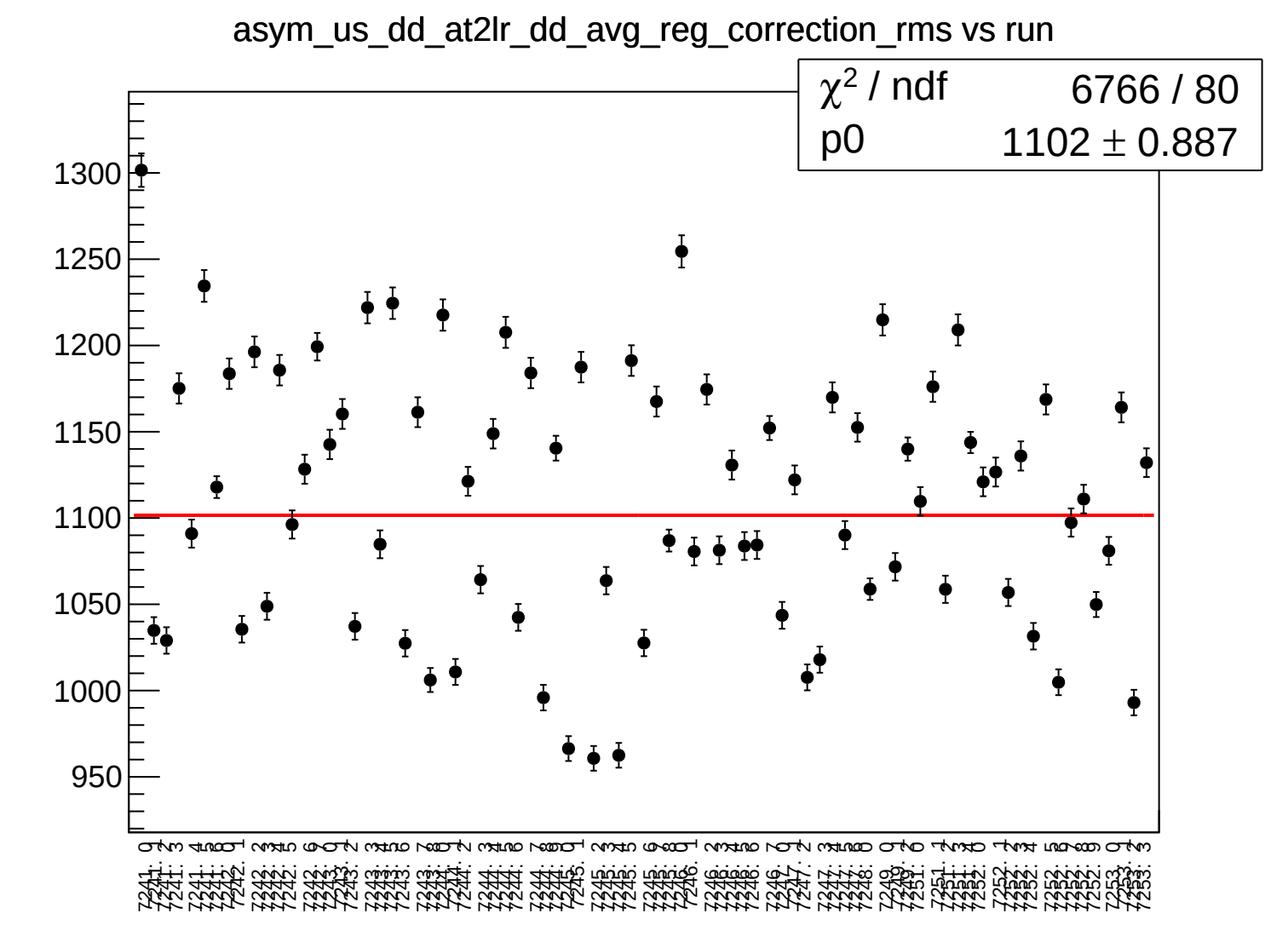

reg_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 59.97 / 80
p0 −765.7 ± 2301
pull
Entries 81
Mean 960.2
Std Dev 0

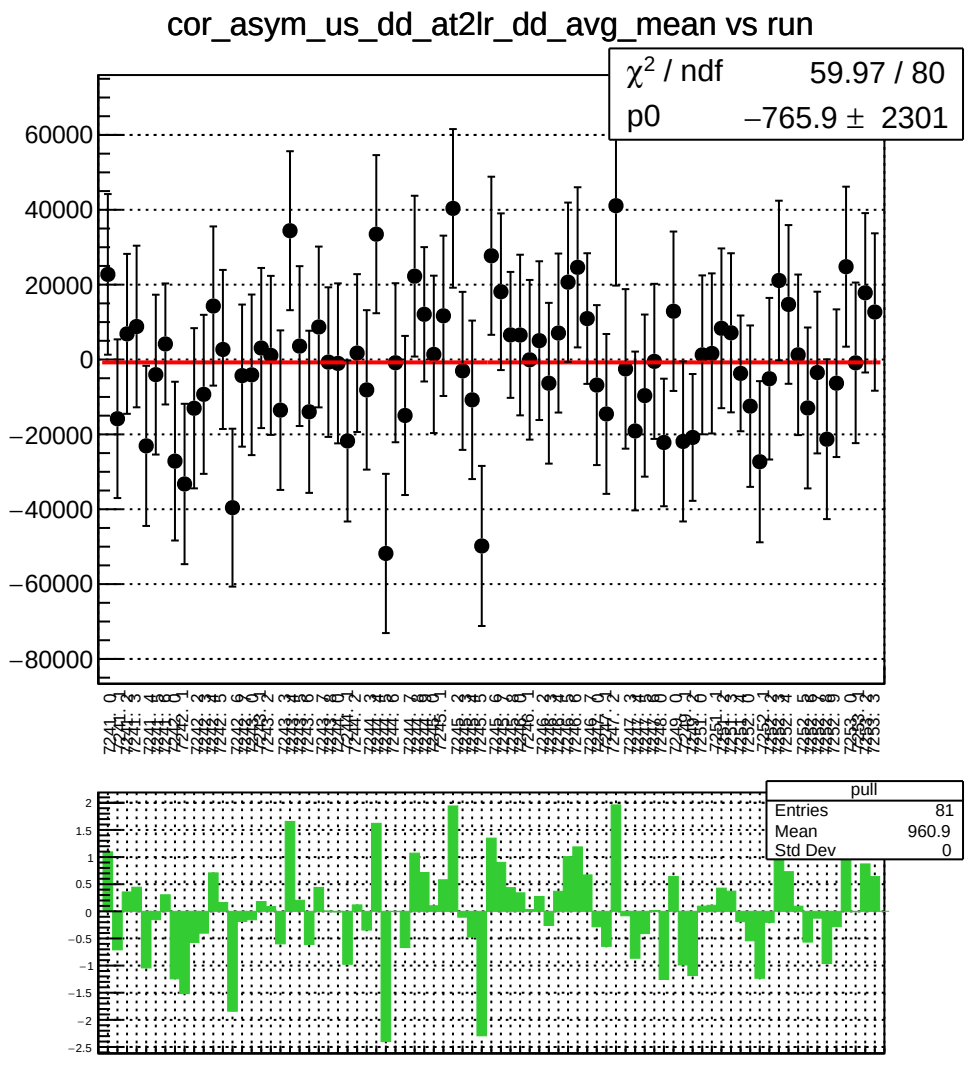

pull1D
Entries 81
Mean 0.00198
Std Dev 0.8605

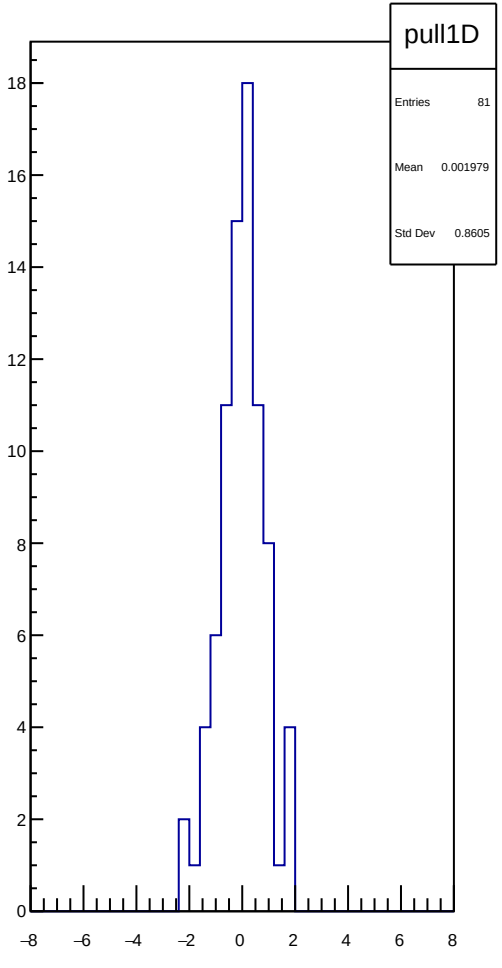

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 67.77 / 80
p0 2025 ± 1.627
2080
2060
2040
2020
2000
1980

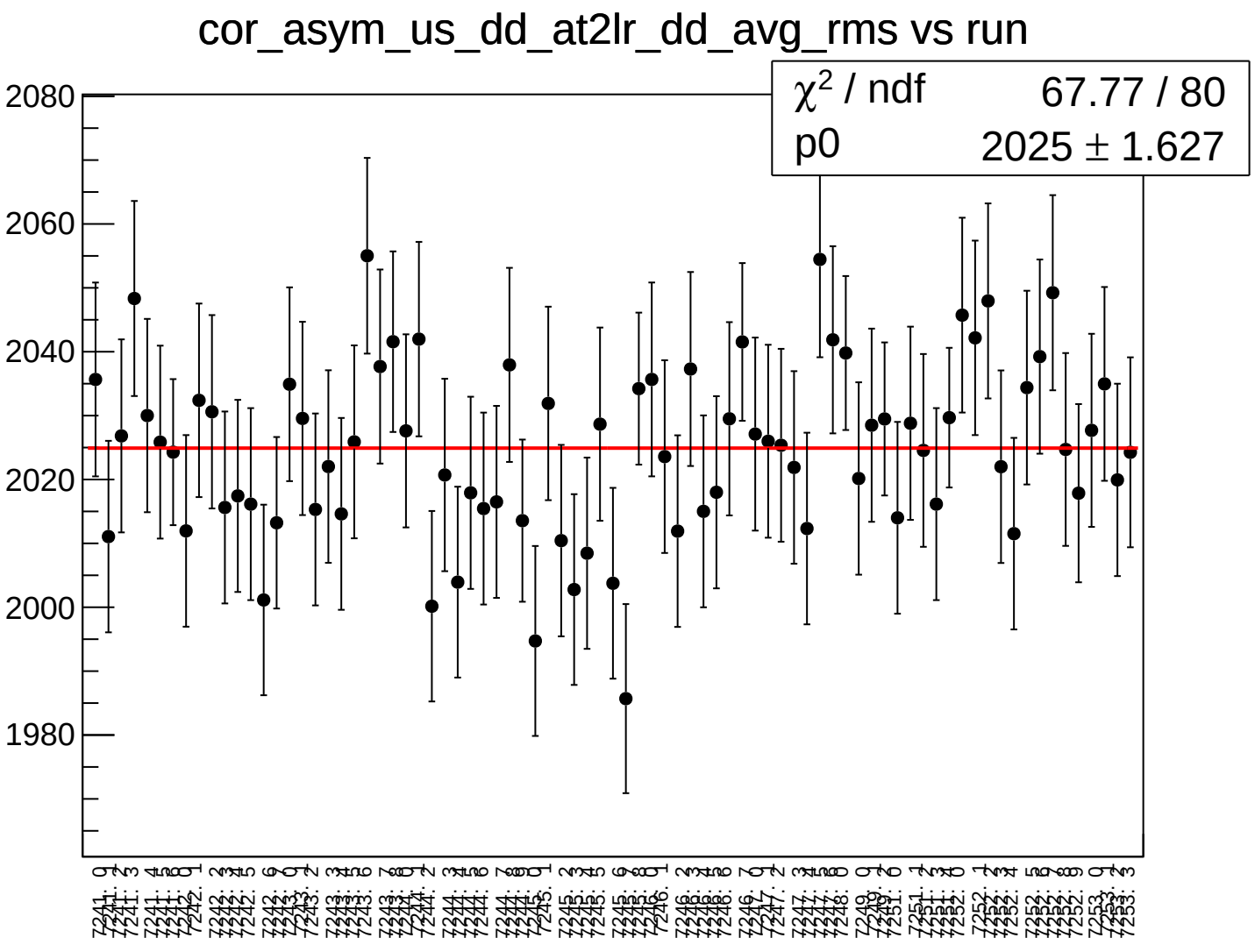

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
χ² / ndf 86.77 / 80
p0 −2193 ± 1254
pull
Entries 81
Mean 229.7
Std Dev 0

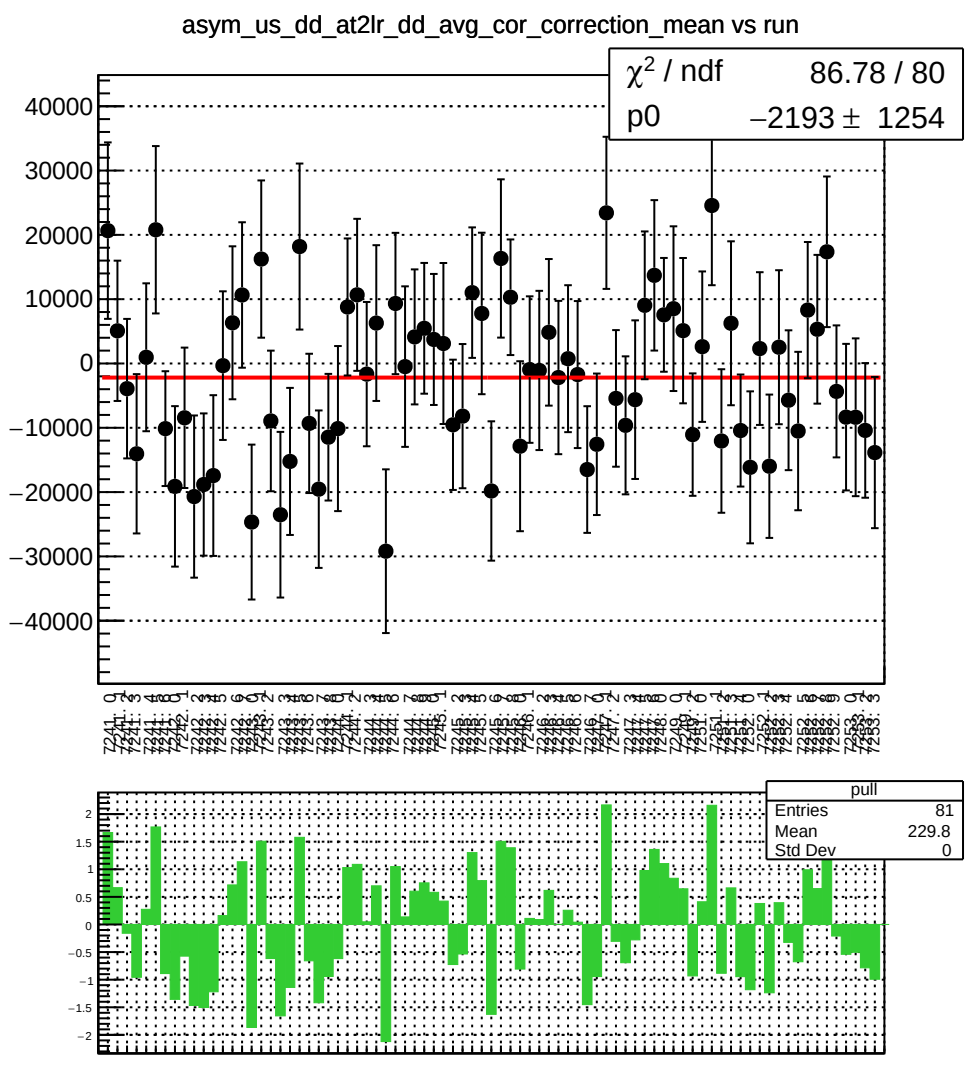

pull1D
Entries 81
Mean 0.00825
Std Dev 1.035

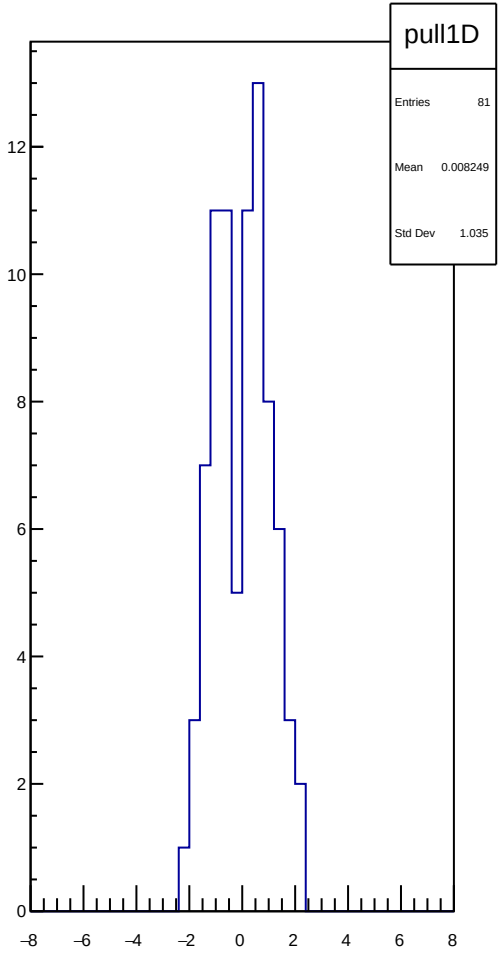

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ² / ndf 6766 / 80
p0 1102 ± 0.887
1300
1250
1200
1150
1100
1050
1000
950

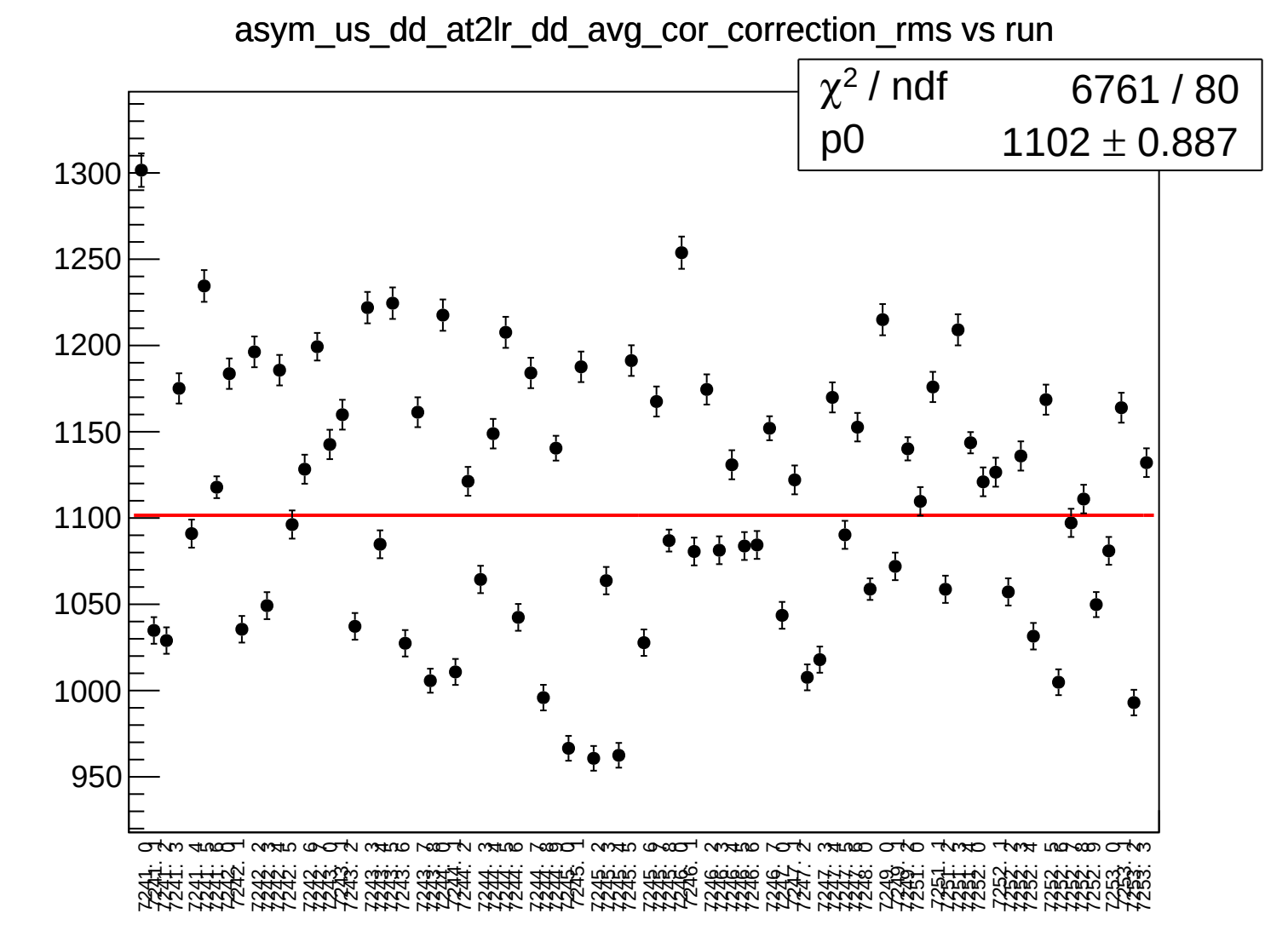

cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 59.97 / 80
p0 −765.9 ± 2301
pull
Entries 81
Mean 960.9
Std Dev 0

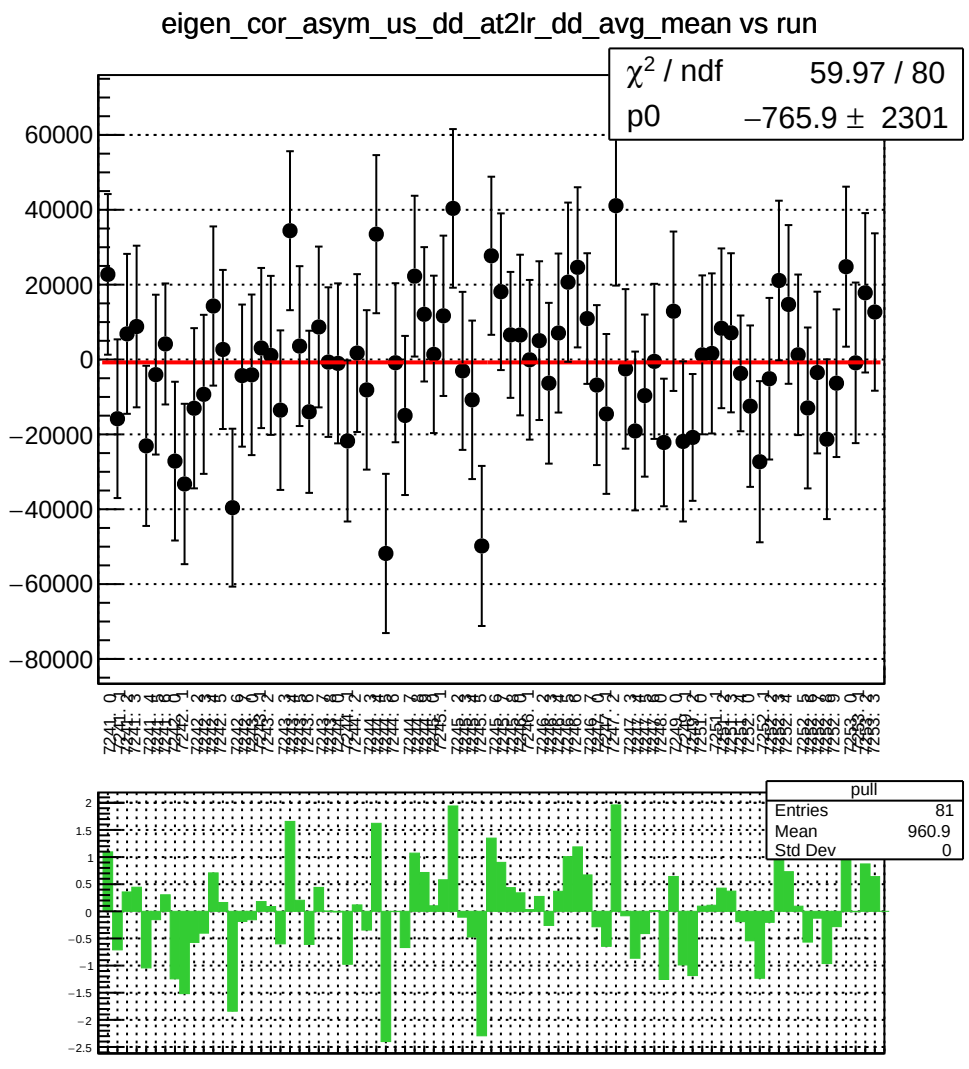

pull1D
Entries 81
Mean 0.001979
Std Dev 0.8605

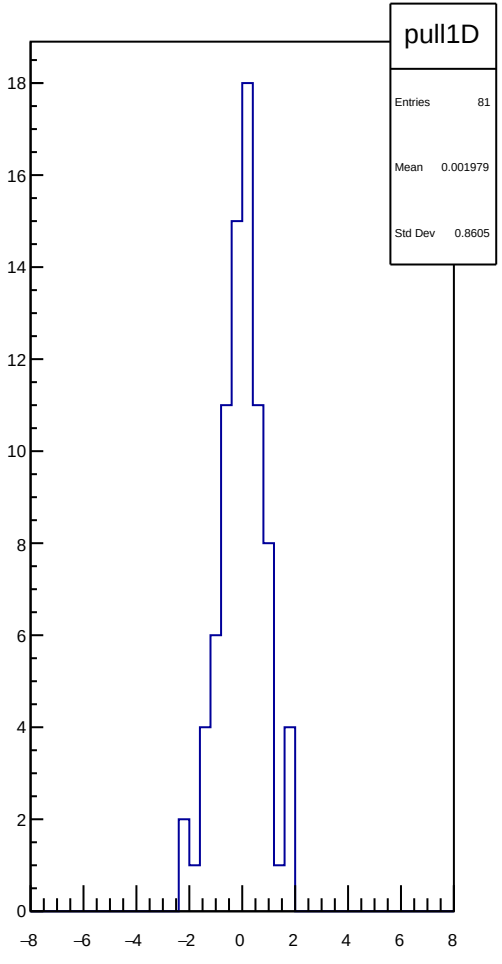

cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 67.77 / 80
p0 2025 ± 1.627
2080
2060
2040
2020
2000
1980

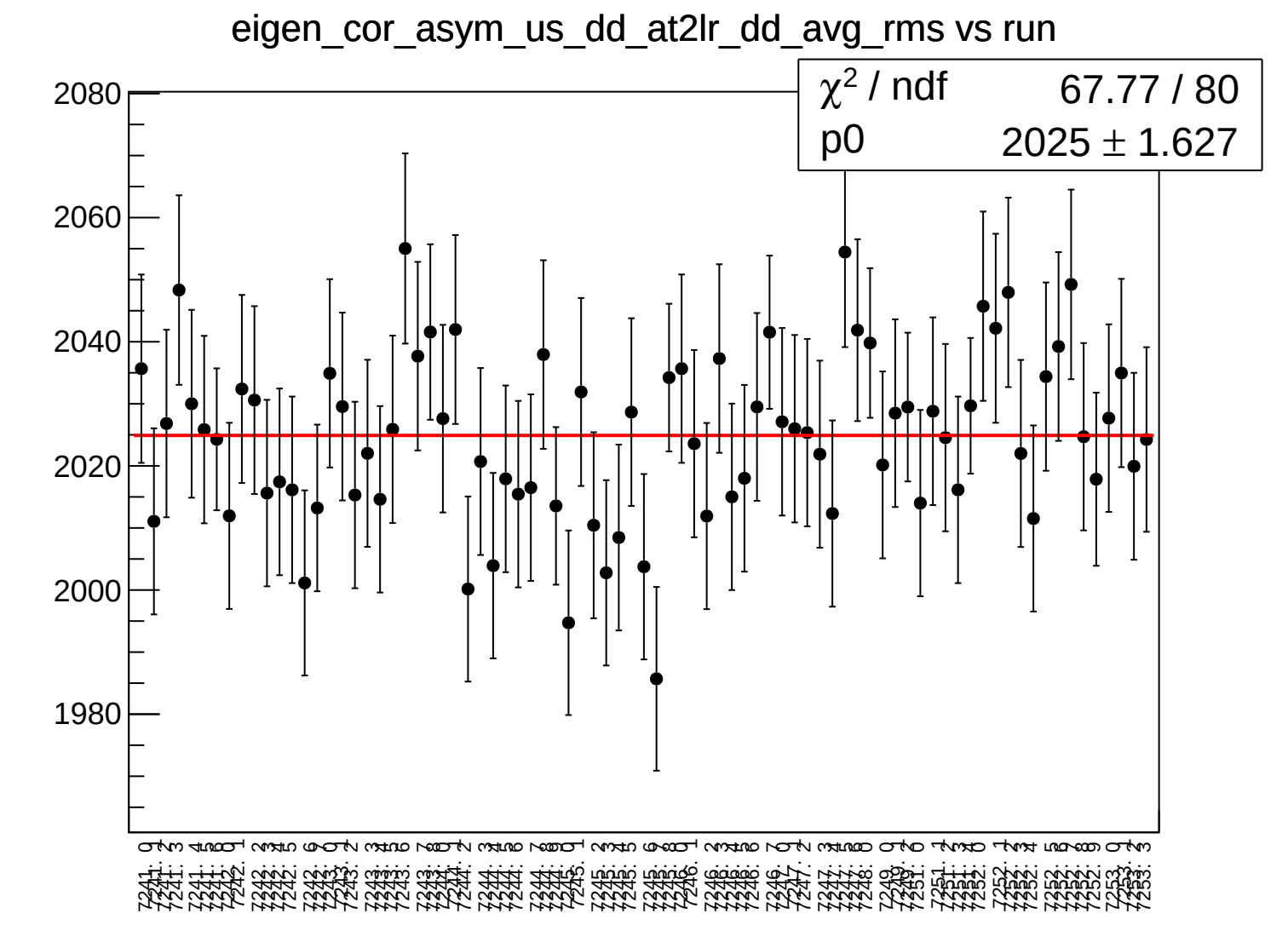

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
χ² / ndf 86.78 / 80
p0 −2193 ± 1254
pull
Entries 81
Mean 229.8
Std Dev 0

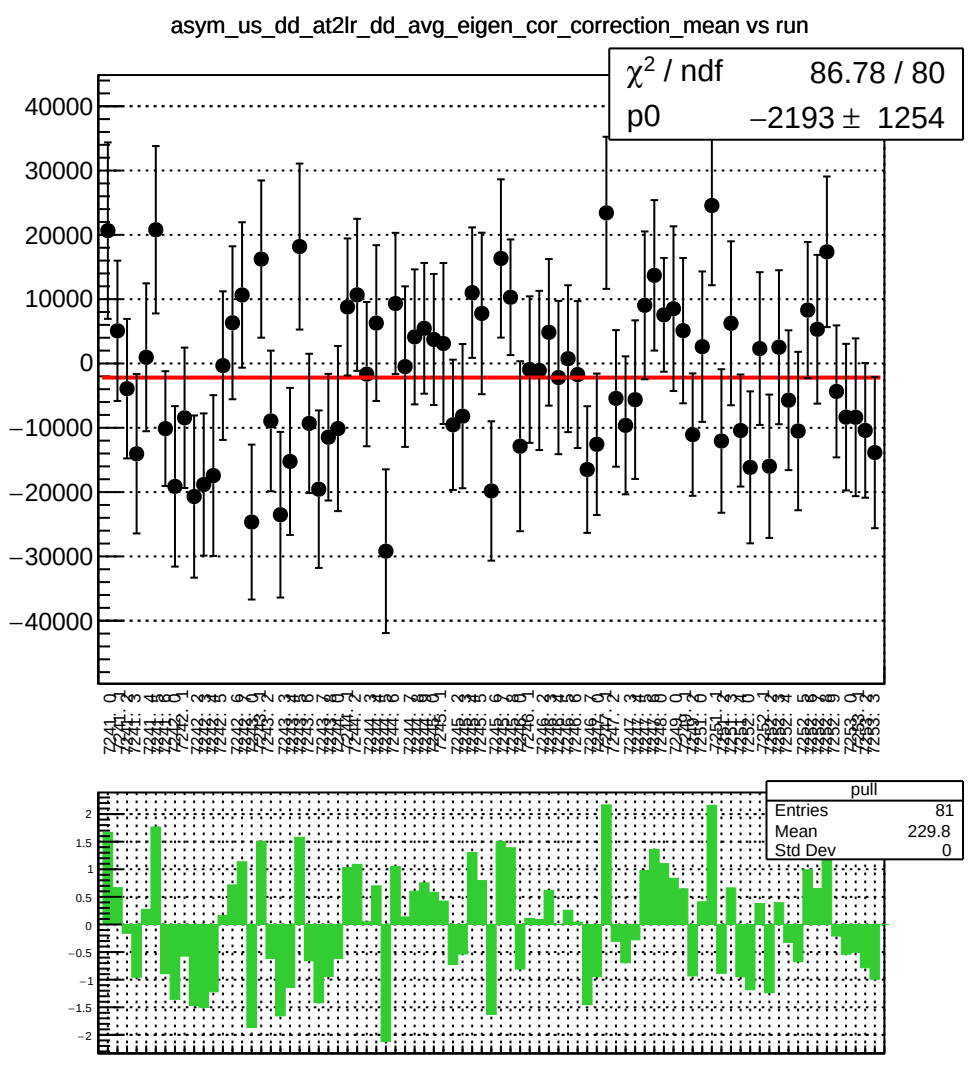

pull1D
Entries 81
Mean 0.008249
Std Dev 1.035

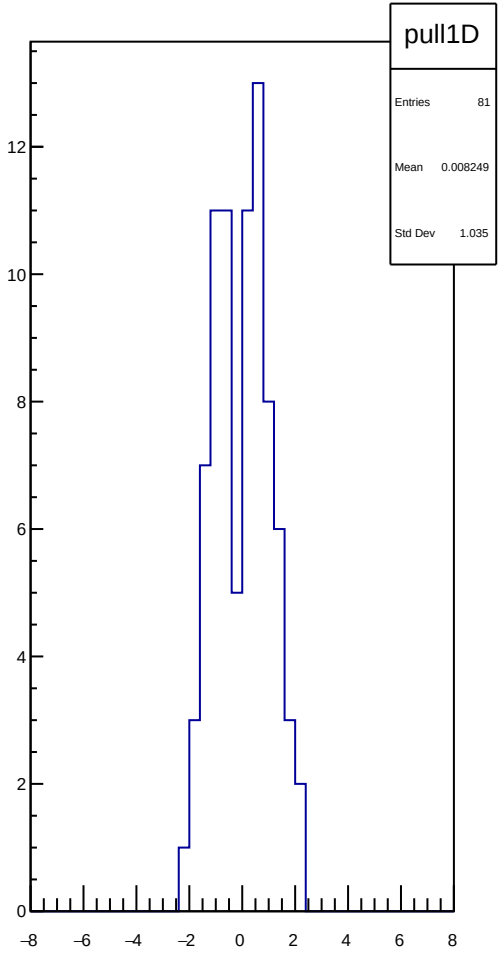

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ² / ndf 6761 / 80
p0 1102 ± 0.887
1300
1250
1200
1150
1100
1050
1000
950

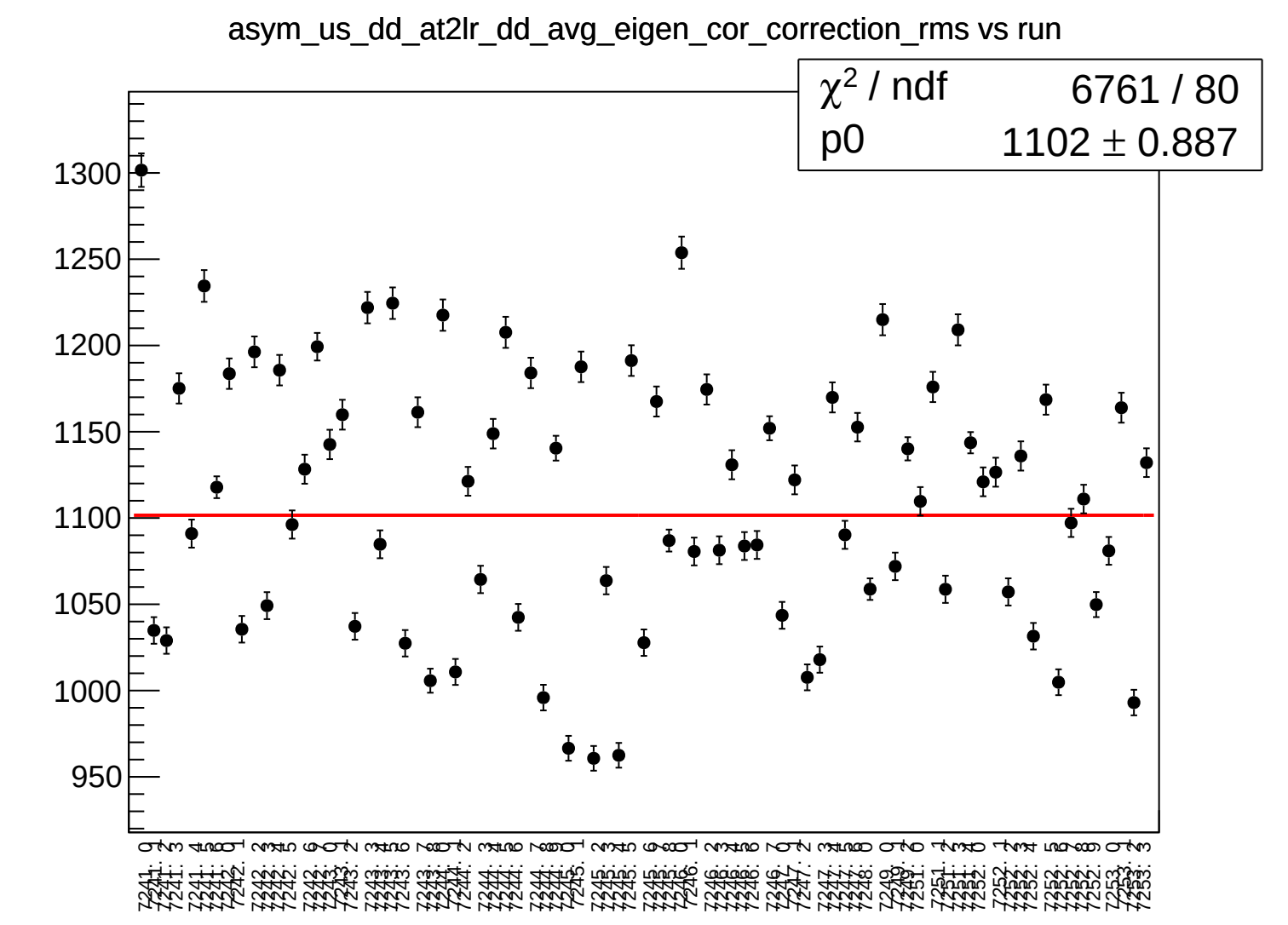

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 59.97 / 80
p0 −765.9 ± 2301
pull
Entries 81
Mean 960.9
Std Dev 0

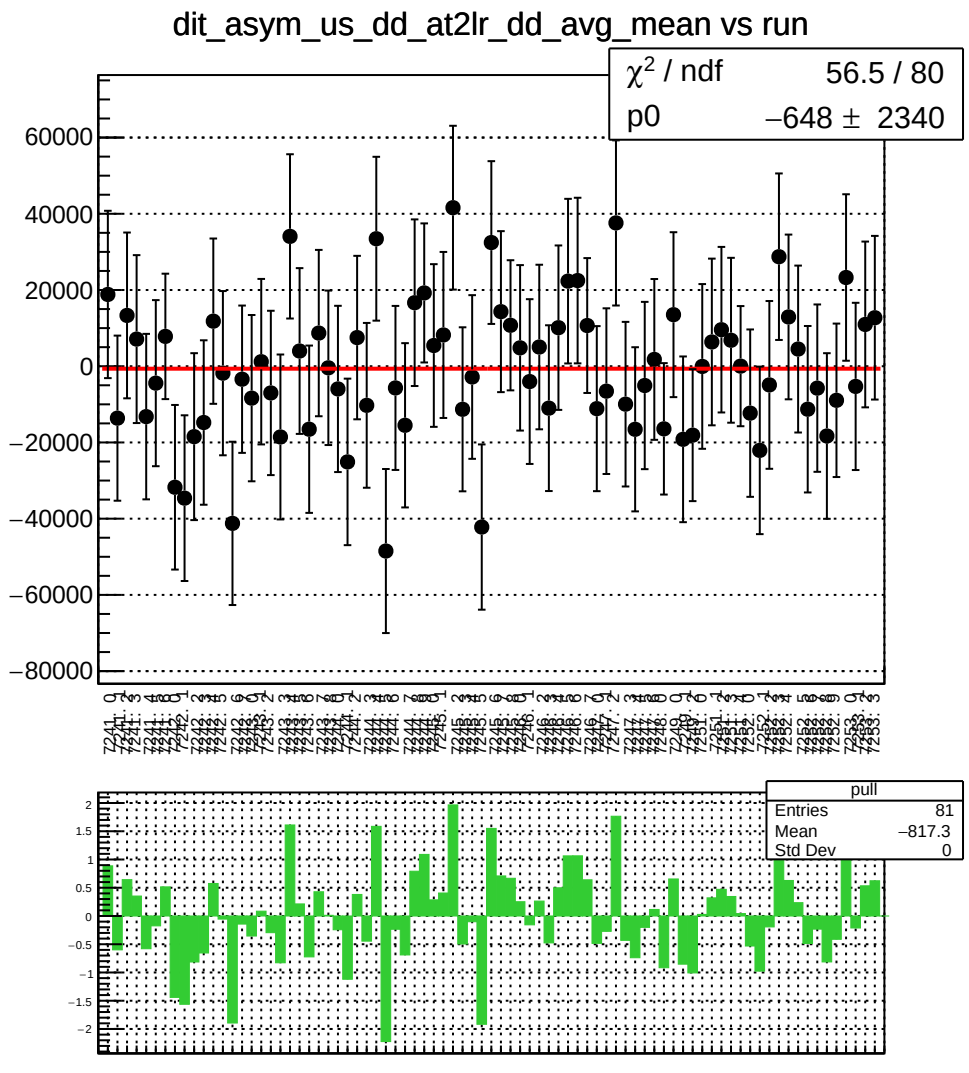

pull1D
Entries 81
Mean 0.001979
Std Dev 0.8605

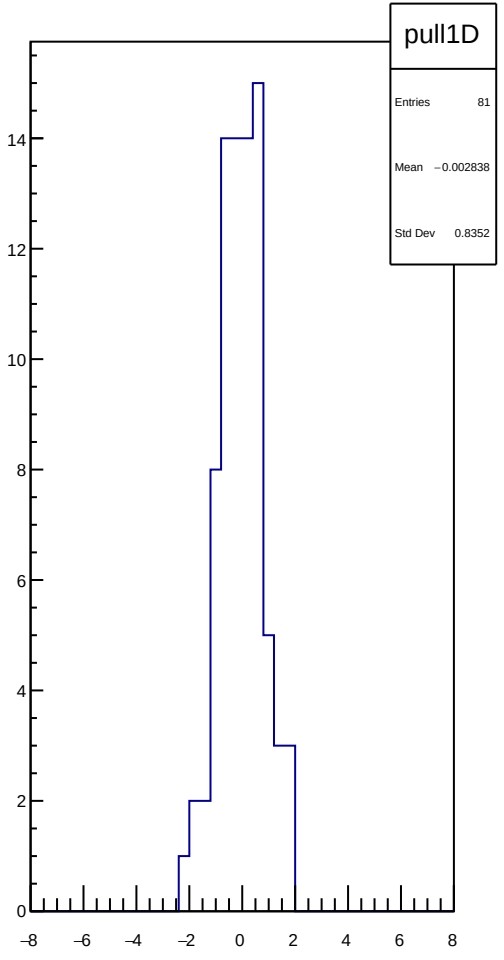

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 67.77 / 80
p0 2025 ± 1.627
2080
2060
2040
2020
2000
1980

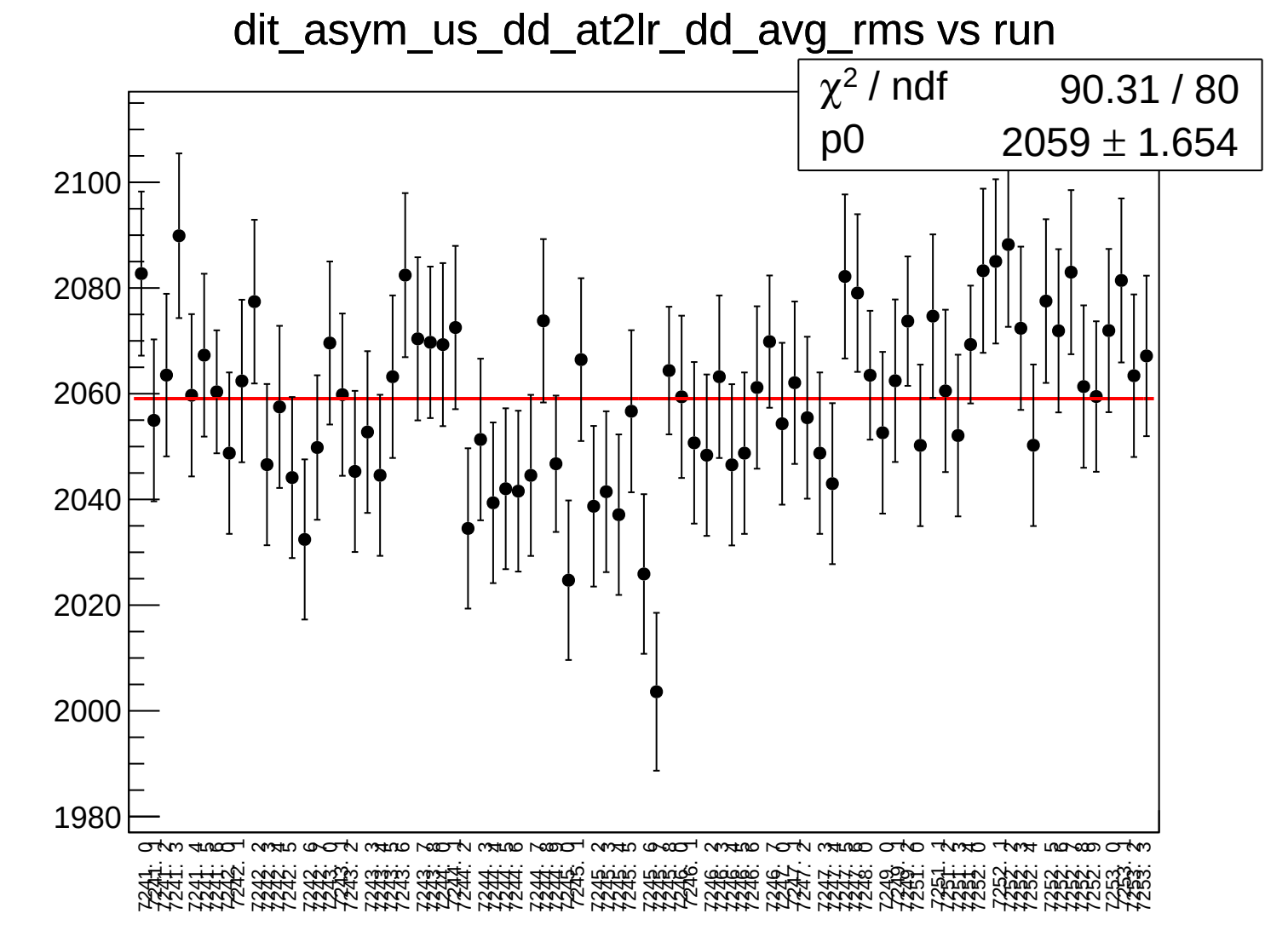

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 86.78 / 80
p0 −2193 ± 1254
pull
Entries 81
Mean 229.8
Std Dev 0

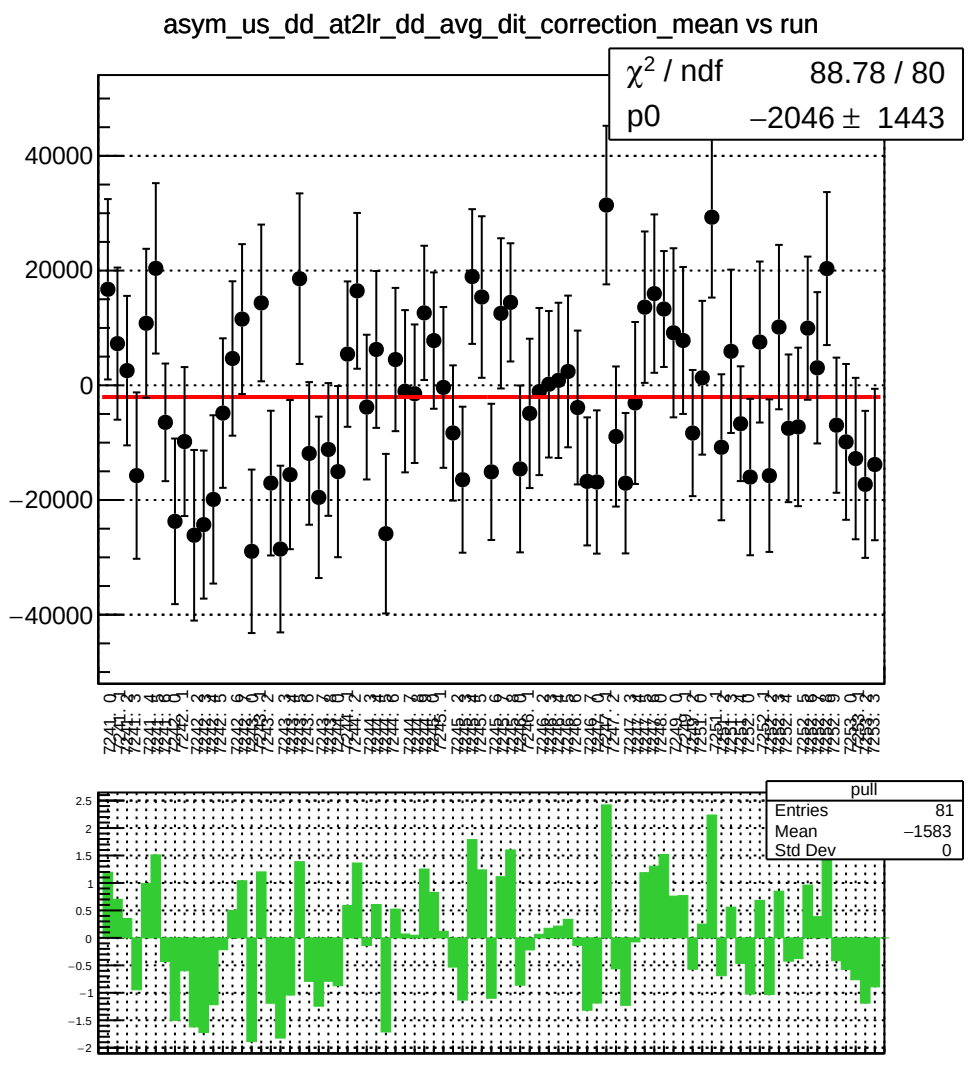

pull1D
Entries 81
Mean 0.008249
Std Dev 1.035

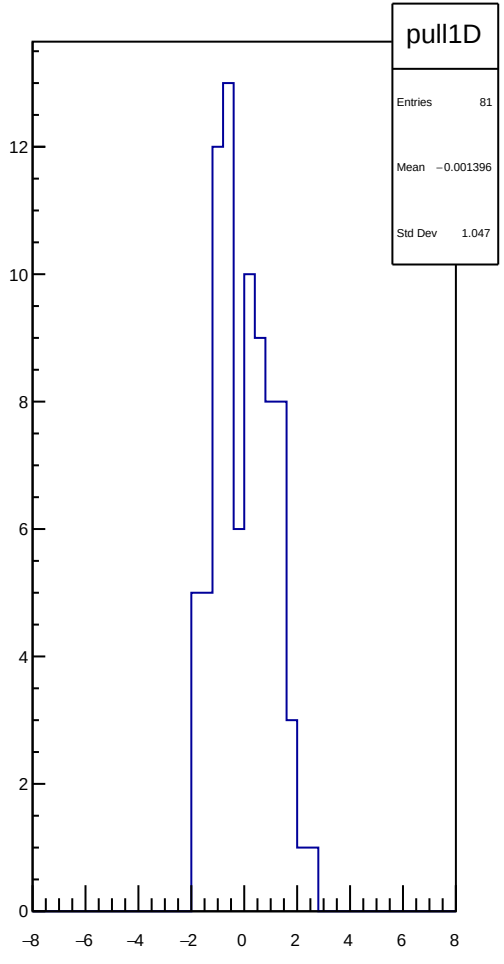

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 6761 / 80
p0 1102 ± 0.887
1300
1250
1200
1150
1100
1050
1000
950

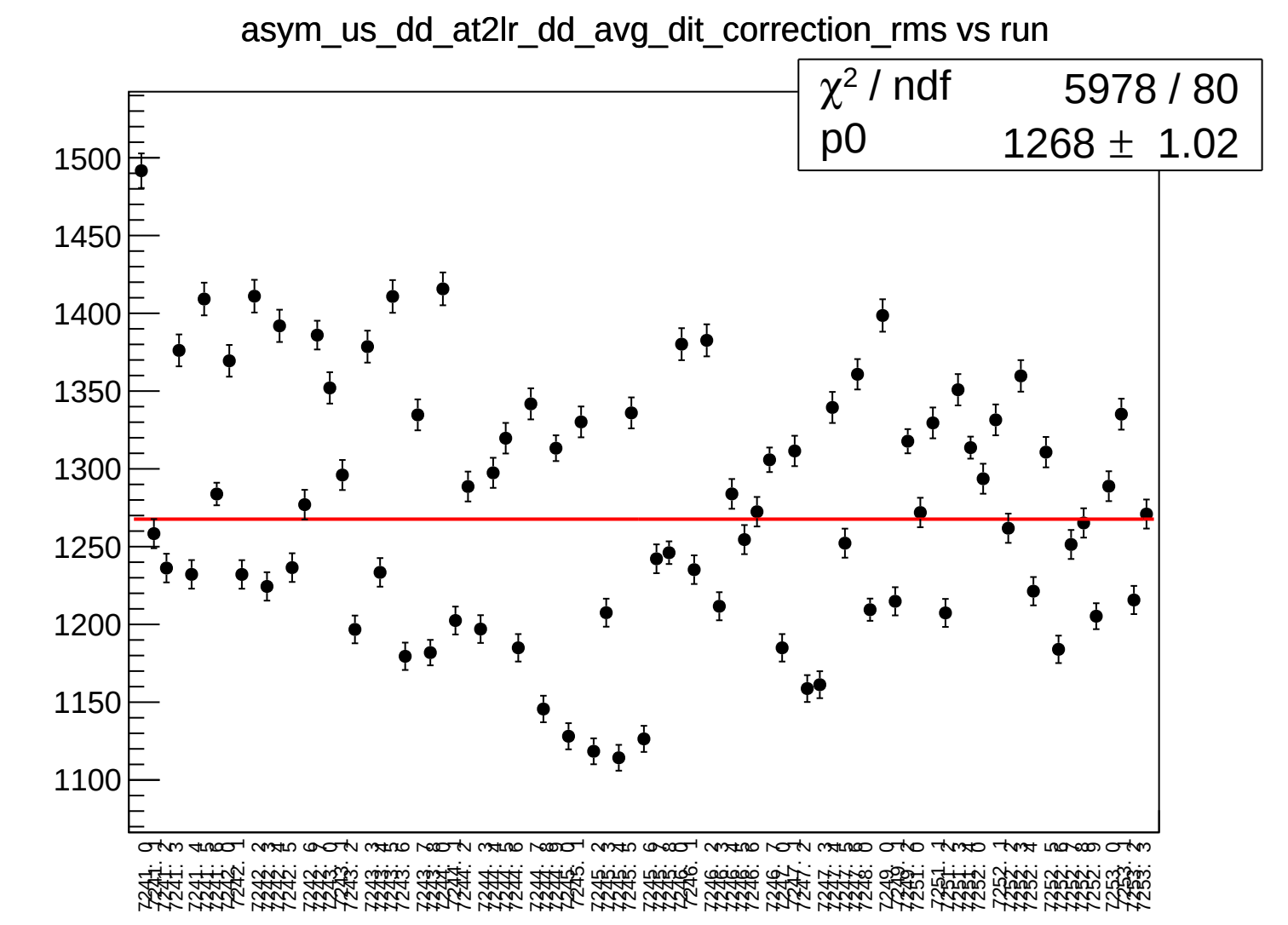

dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 56.5 / 80
p0 −648 ± 2340
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 81
Mean −817.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

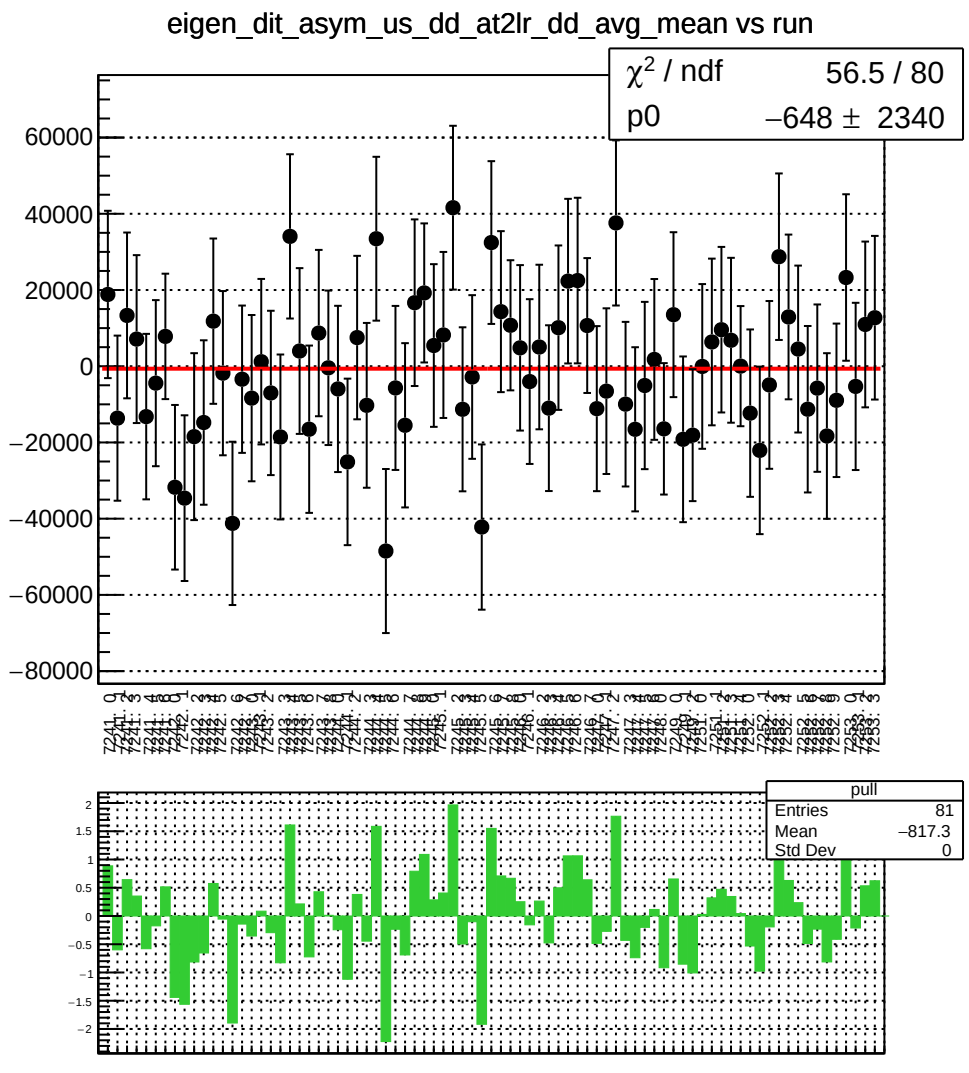

pull1D
Entries 81
Mean −0.002838
Std Dev 0.8352
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

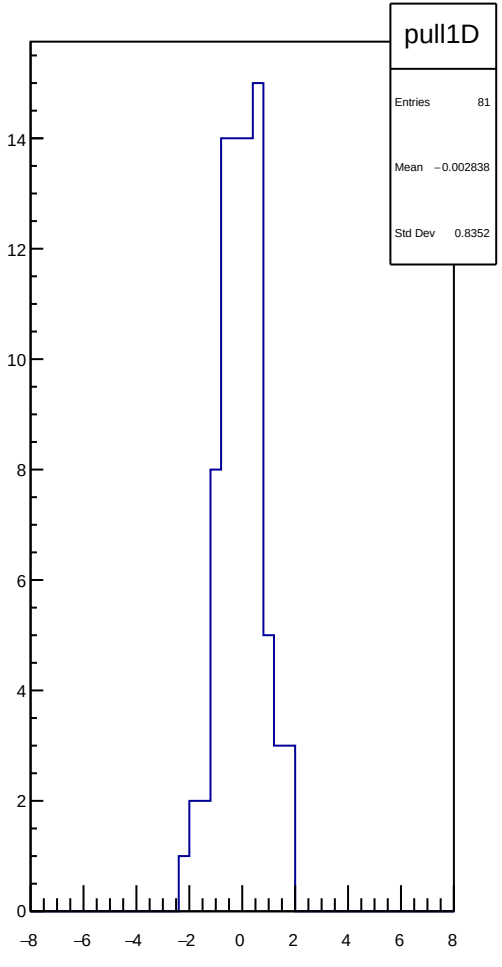

dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 90.31 / 80
p0 2059 ± 1.654
2100
2080
2060
2040
2020
2000
1980

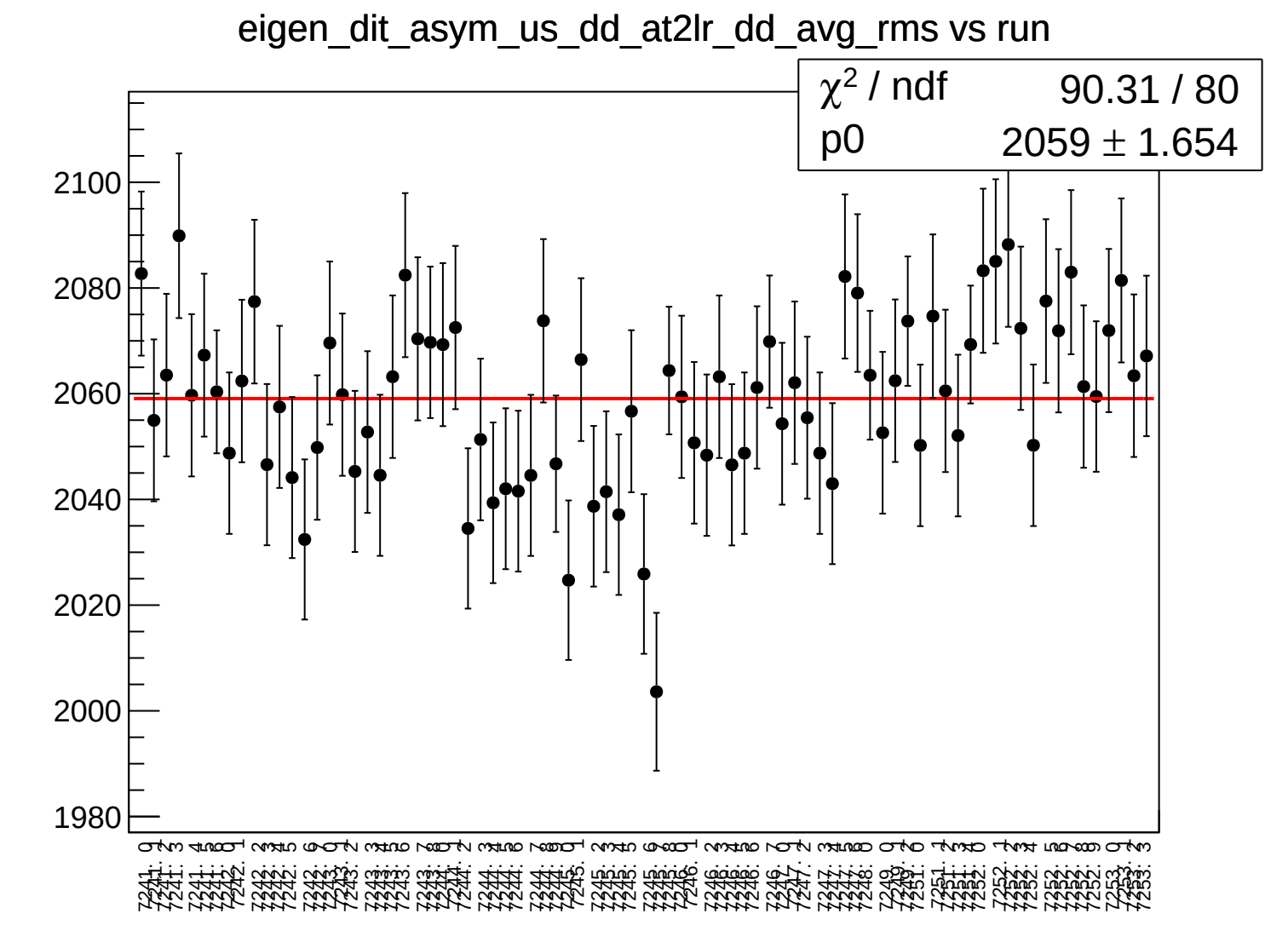

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
χ² / ndf 88.78 / 80
p0 −2046 ± 1443
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −1583
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

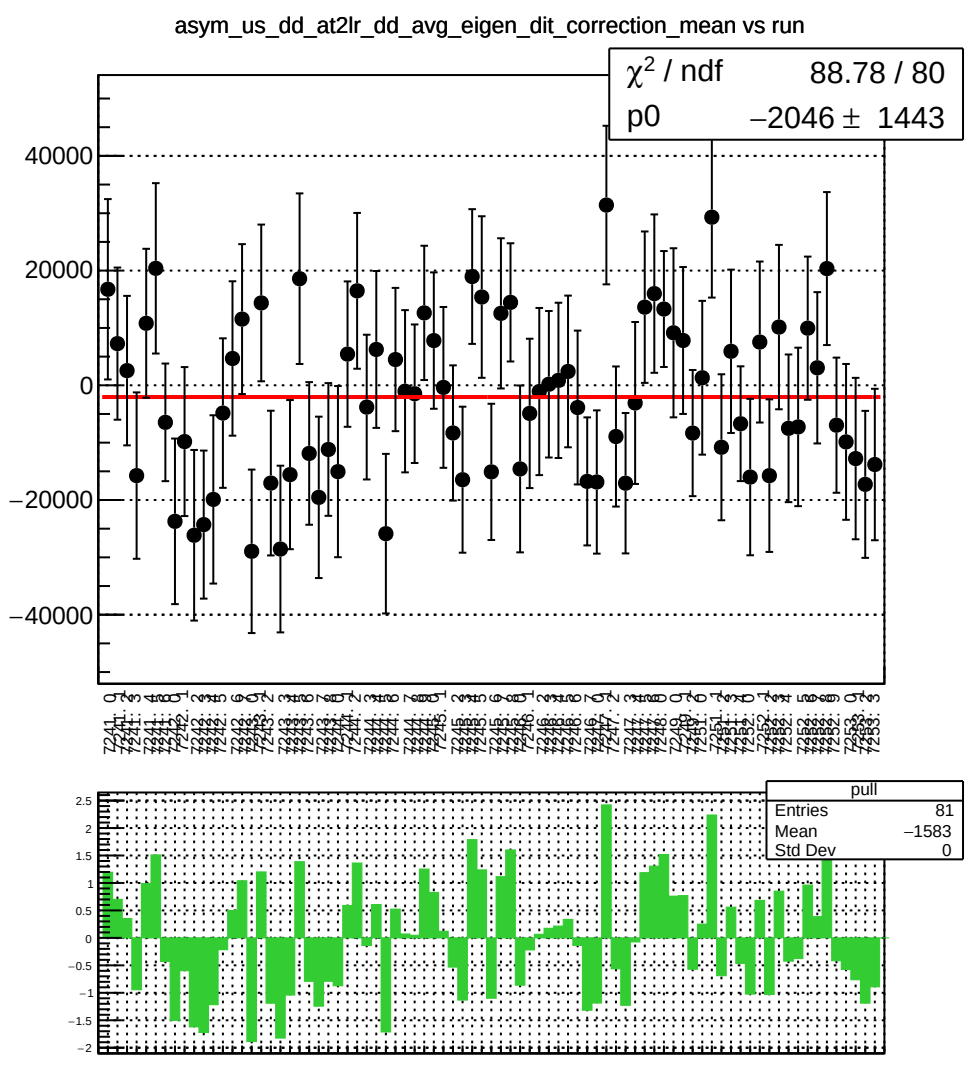

pull1D
Entries 81
Mean −0.001396
Std Dev 1.047
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

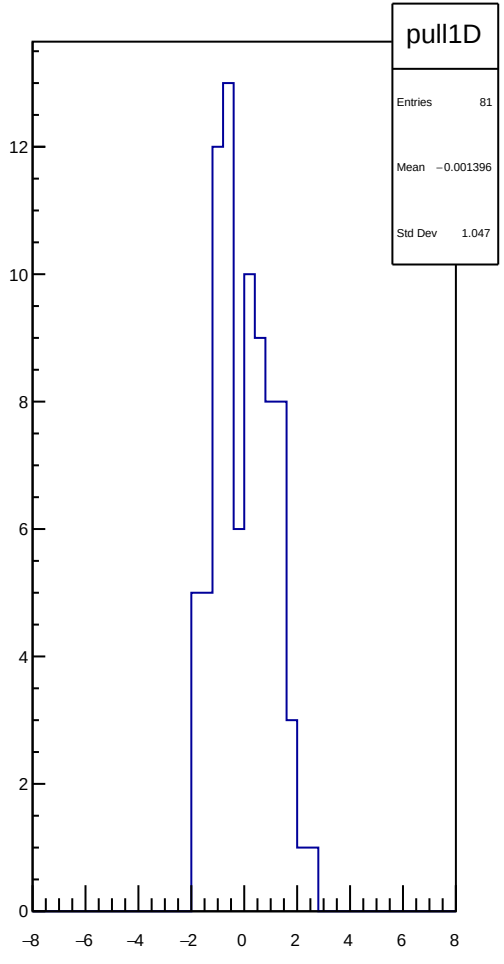

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 5978 / 80
p0 1268 ± 1.02
1500
1450
1400
1350
1300
1250
1200
1150
1100

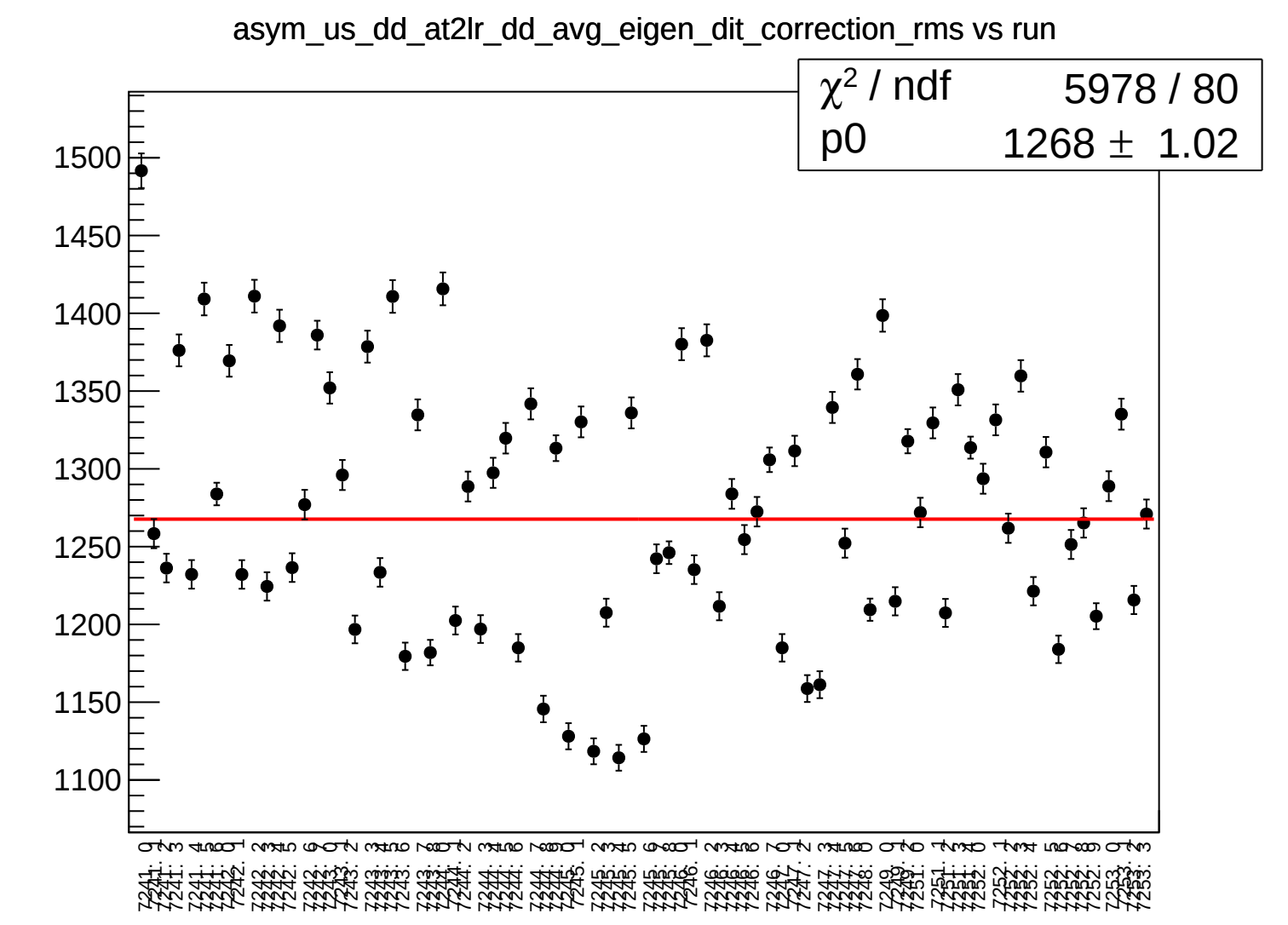

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 56.5 / 80
p0 −648 ± 2340
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 81
Mean −817.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

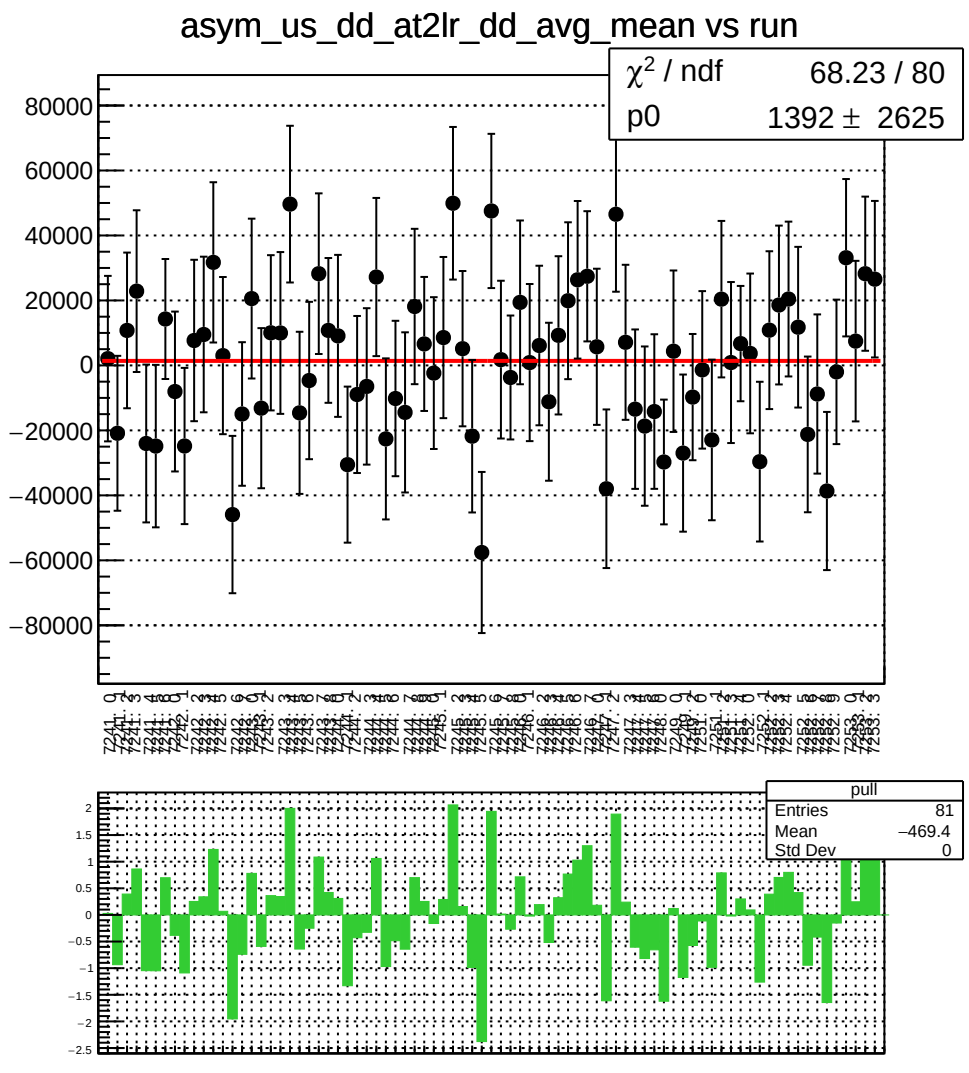

pull1D
Entries 81
Mean −0.002838
Std Dev 0.8352
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

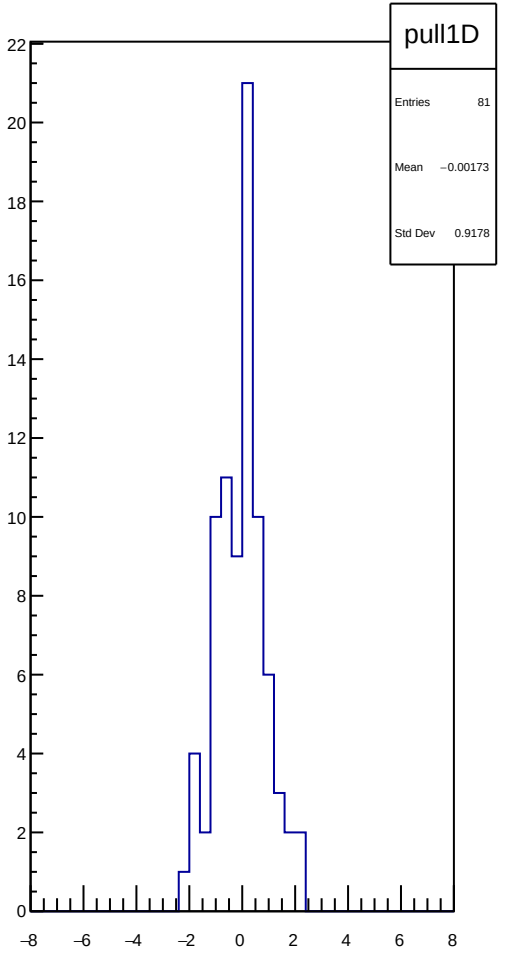

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 90.31 / 80
p0 2059 ± 1.654
2100
2080
2060
2040
2020
2000
1980

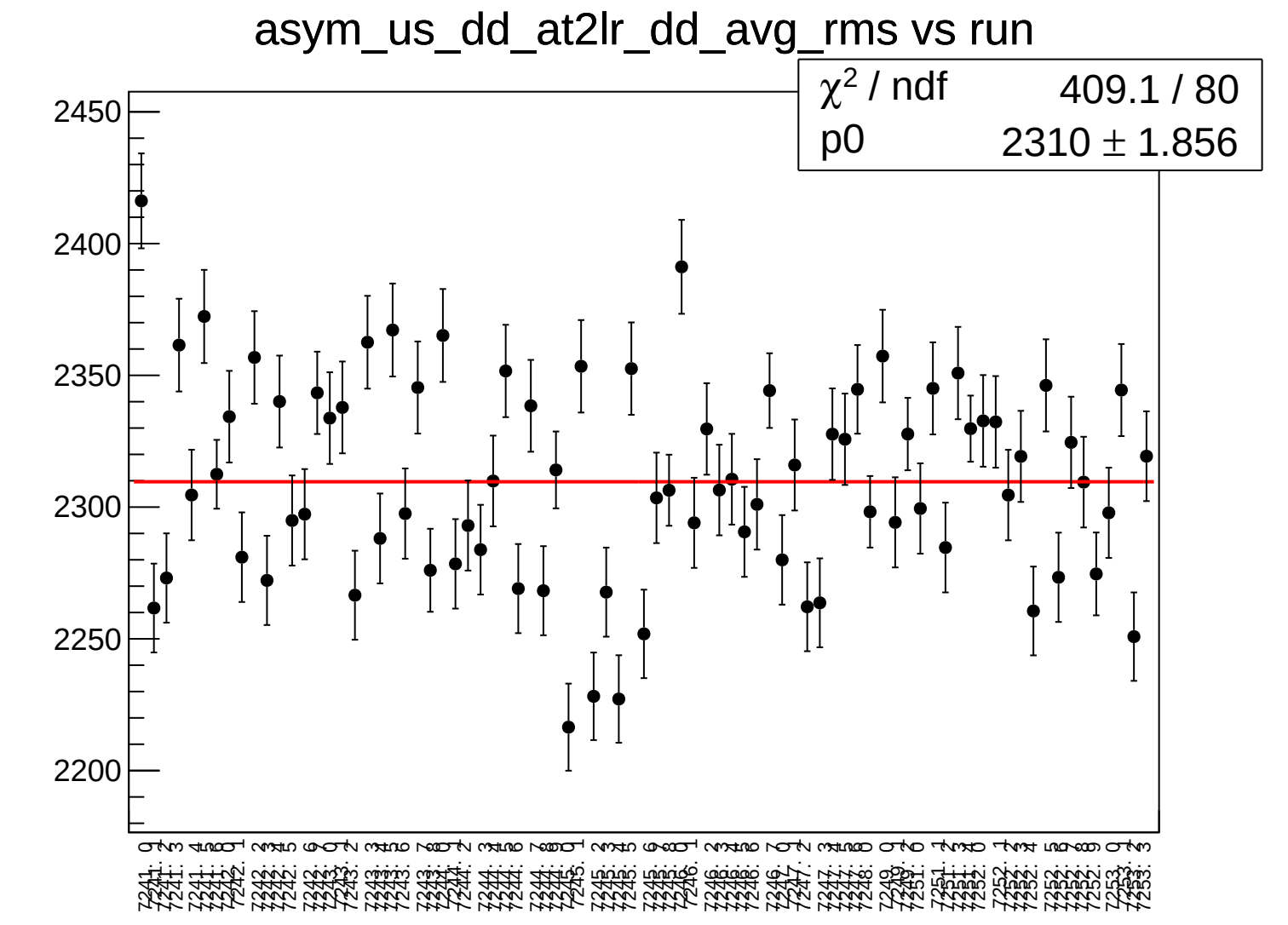

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 88.78 / 80
p0 −2046 ± 1443
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −1583
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

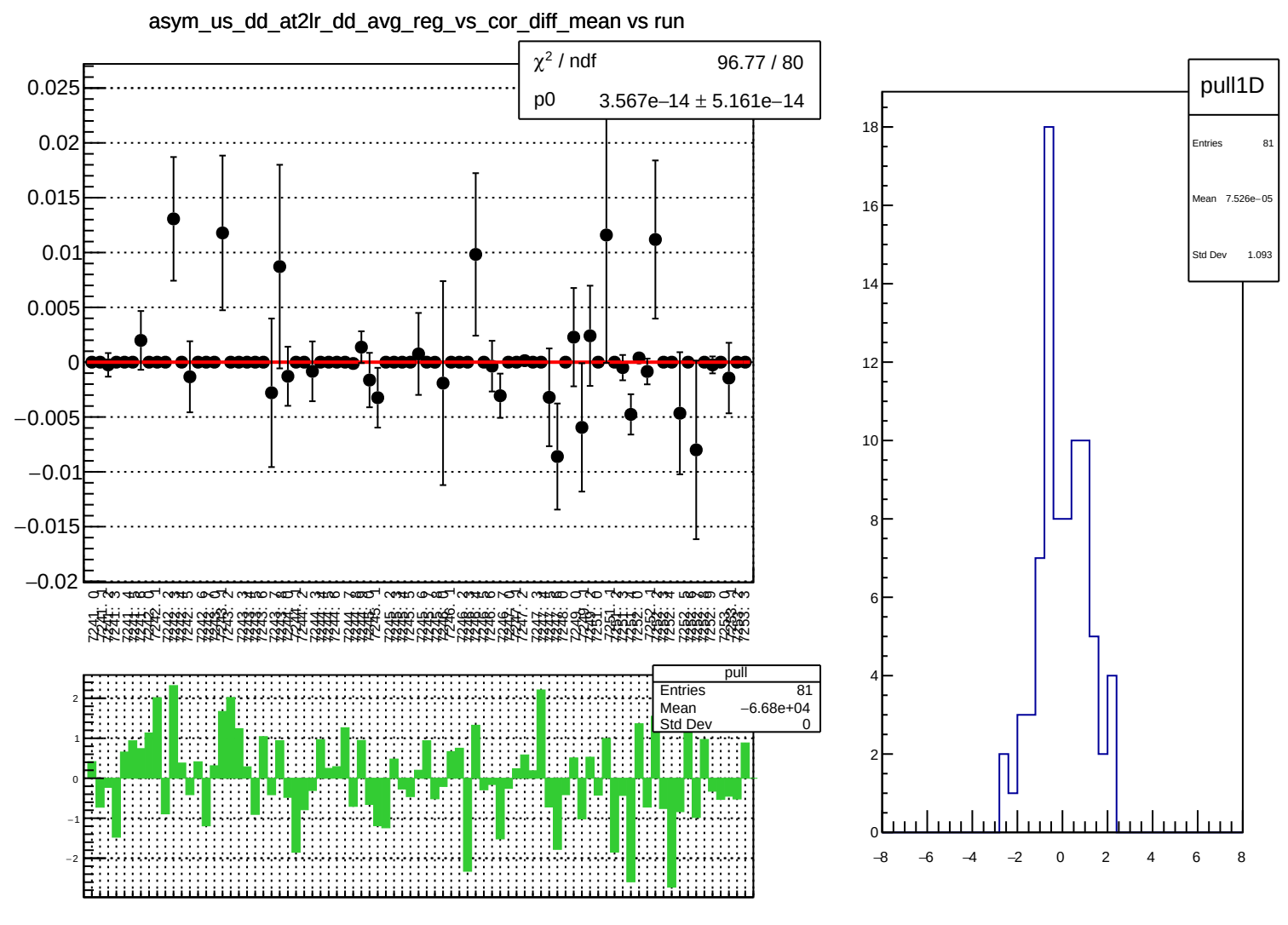

pull1D
Entries 81
Mean −0.001396
Std Dev 1.047
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

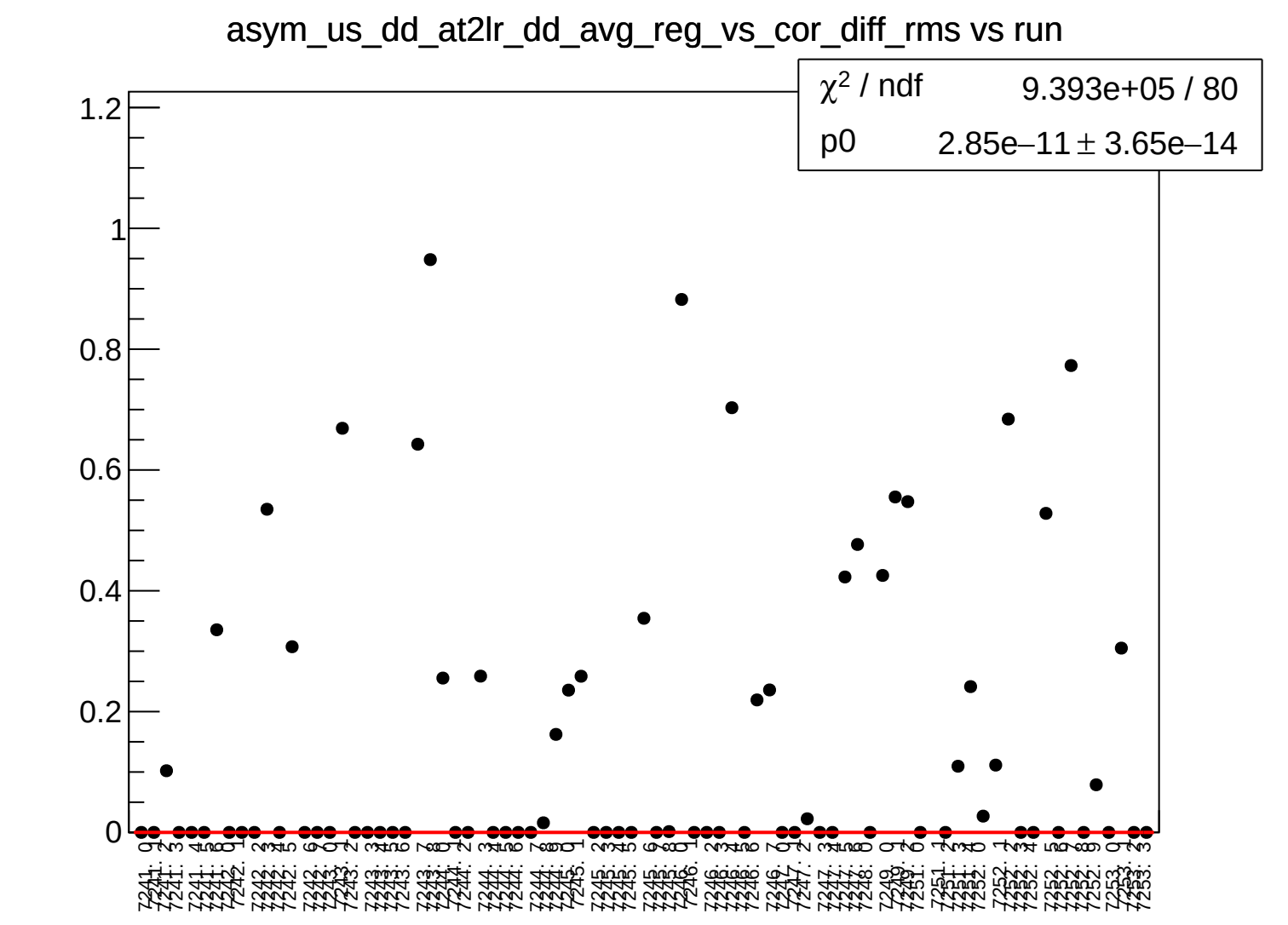

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 5978 / 80
p0 1268 ± 1.02
1500
1450
1400
1350
1300
1250
1200
1150
1100

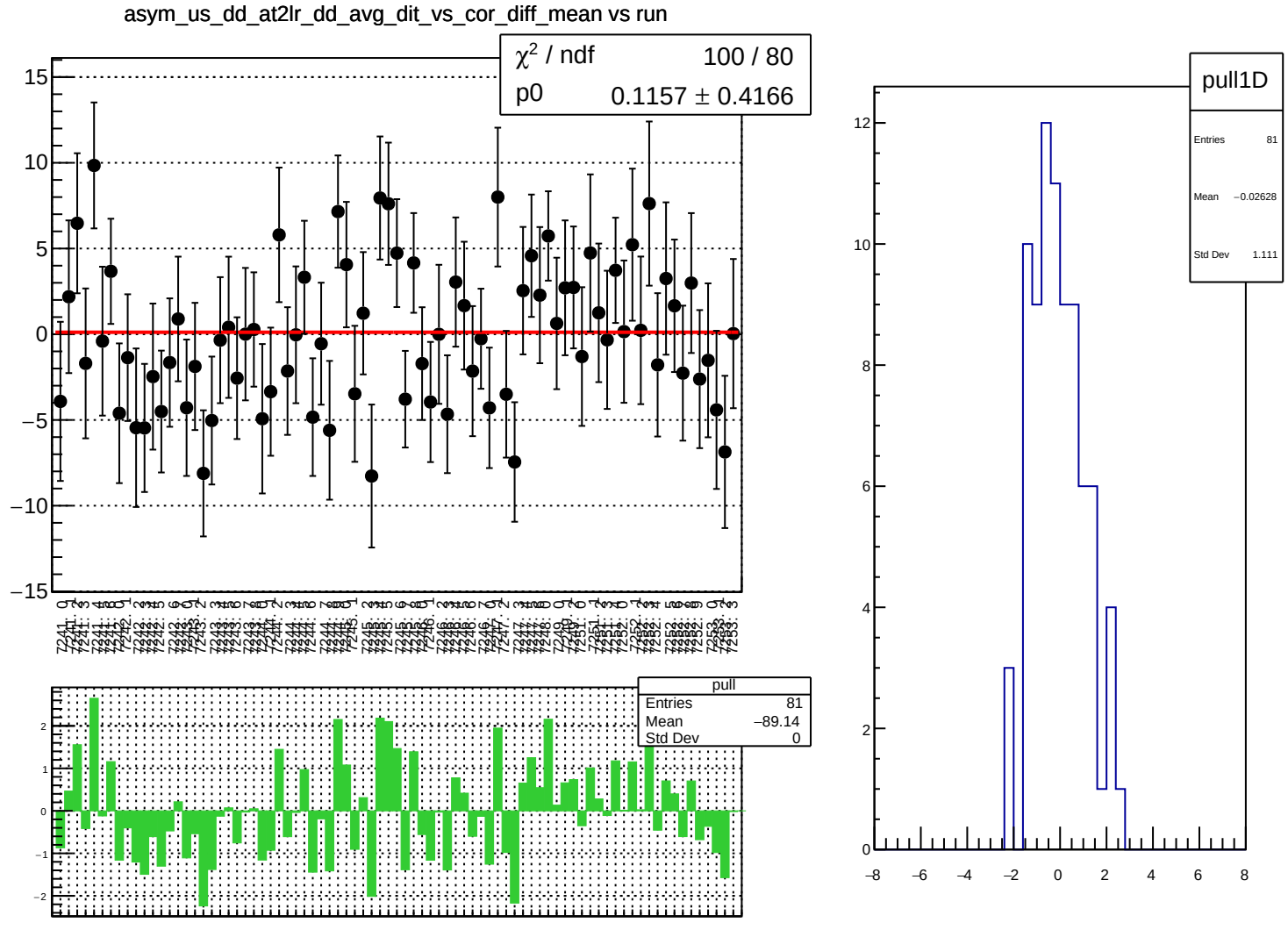

asym_us_dd_at2lr_dd_avg_mean vs run
χ^2 / ndf 68.23 / 80
p0 1392 ± 2625
pull
Entries 81
Mean −469.4
Std Dev 0

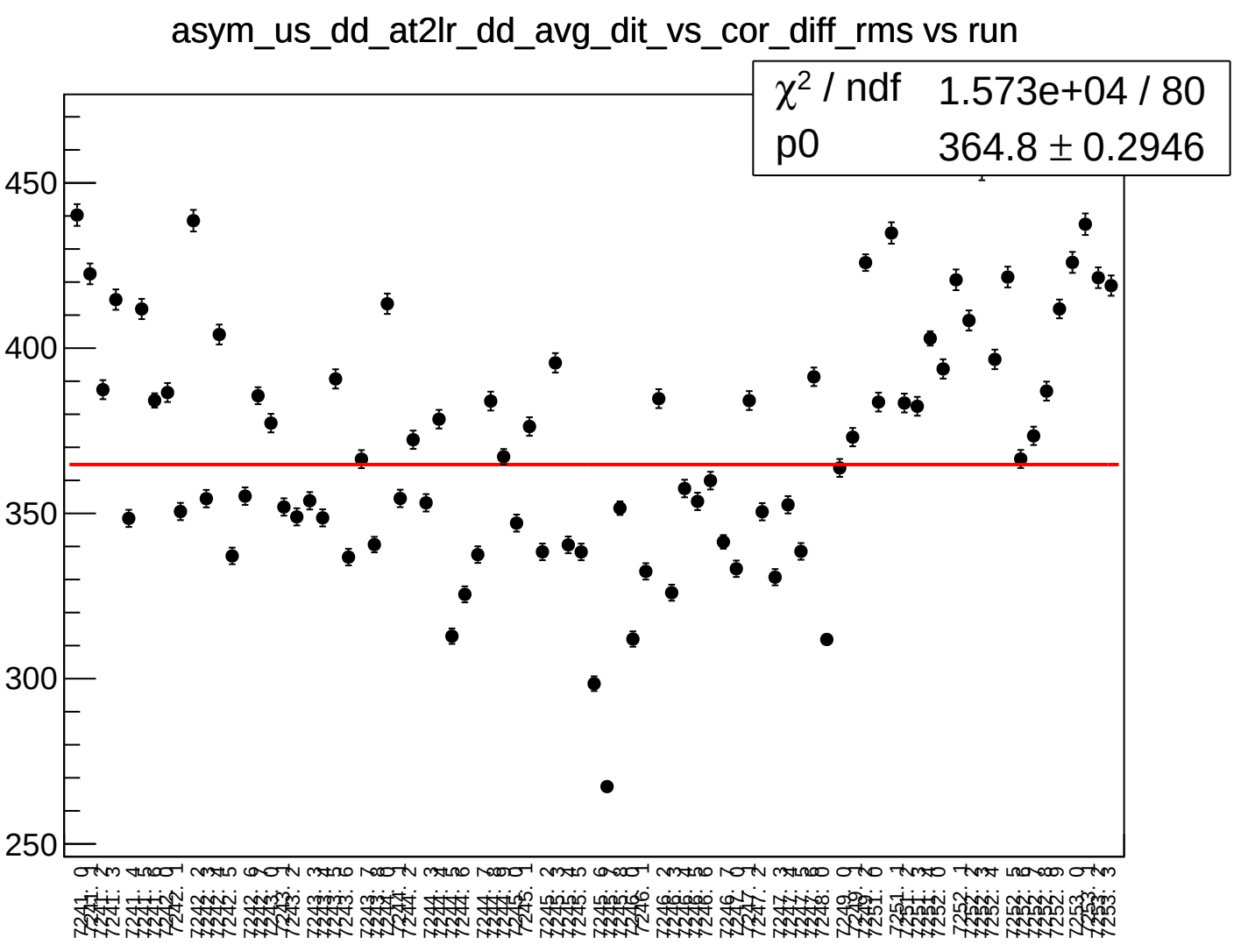

pull1D
Entries 81
Mean −0.00173
Std Dev 0.9178

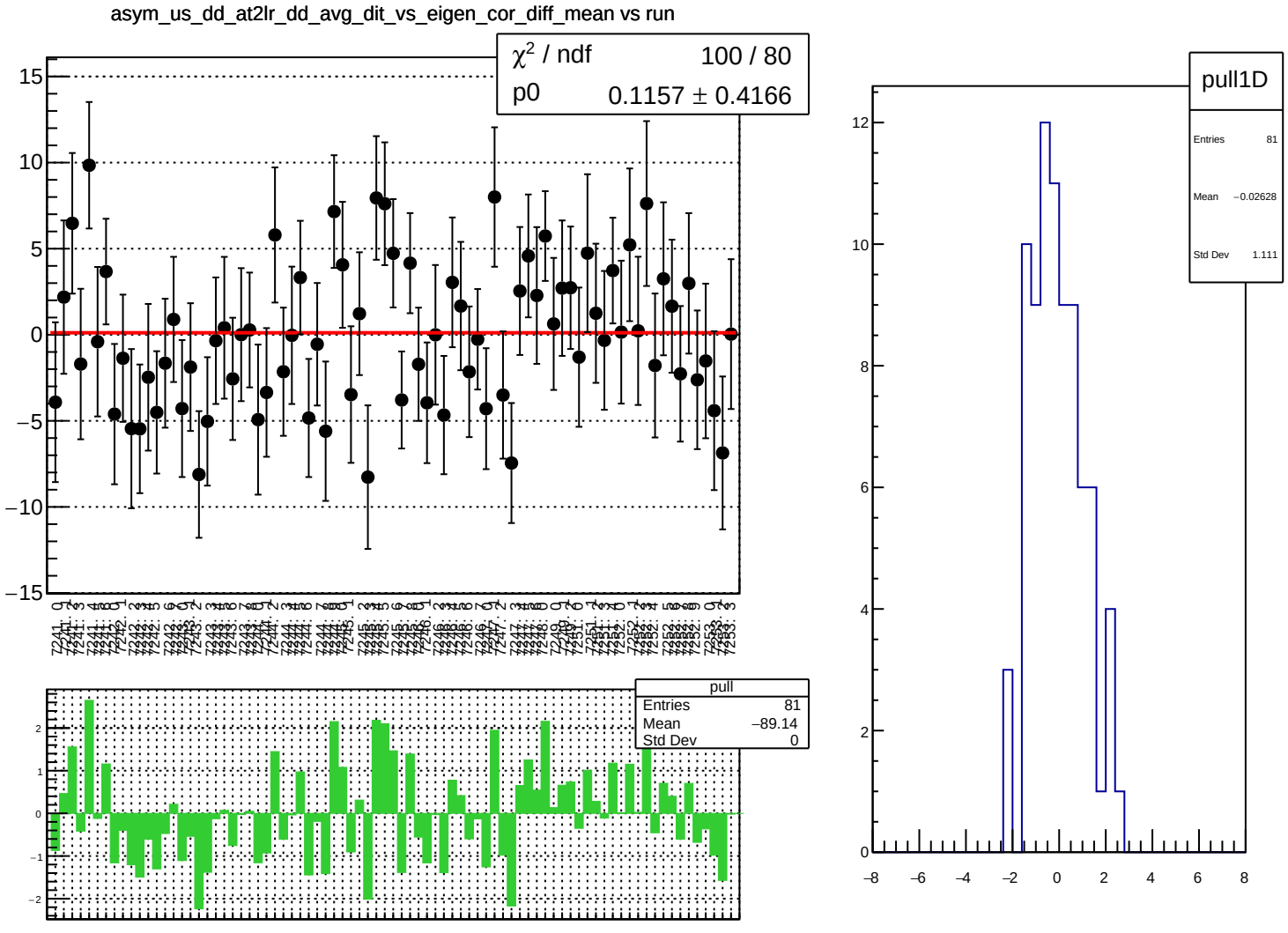

asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 409.1 / 80
p0 2310 ± 1.856
2450
2400
2350
2300
2250
2200

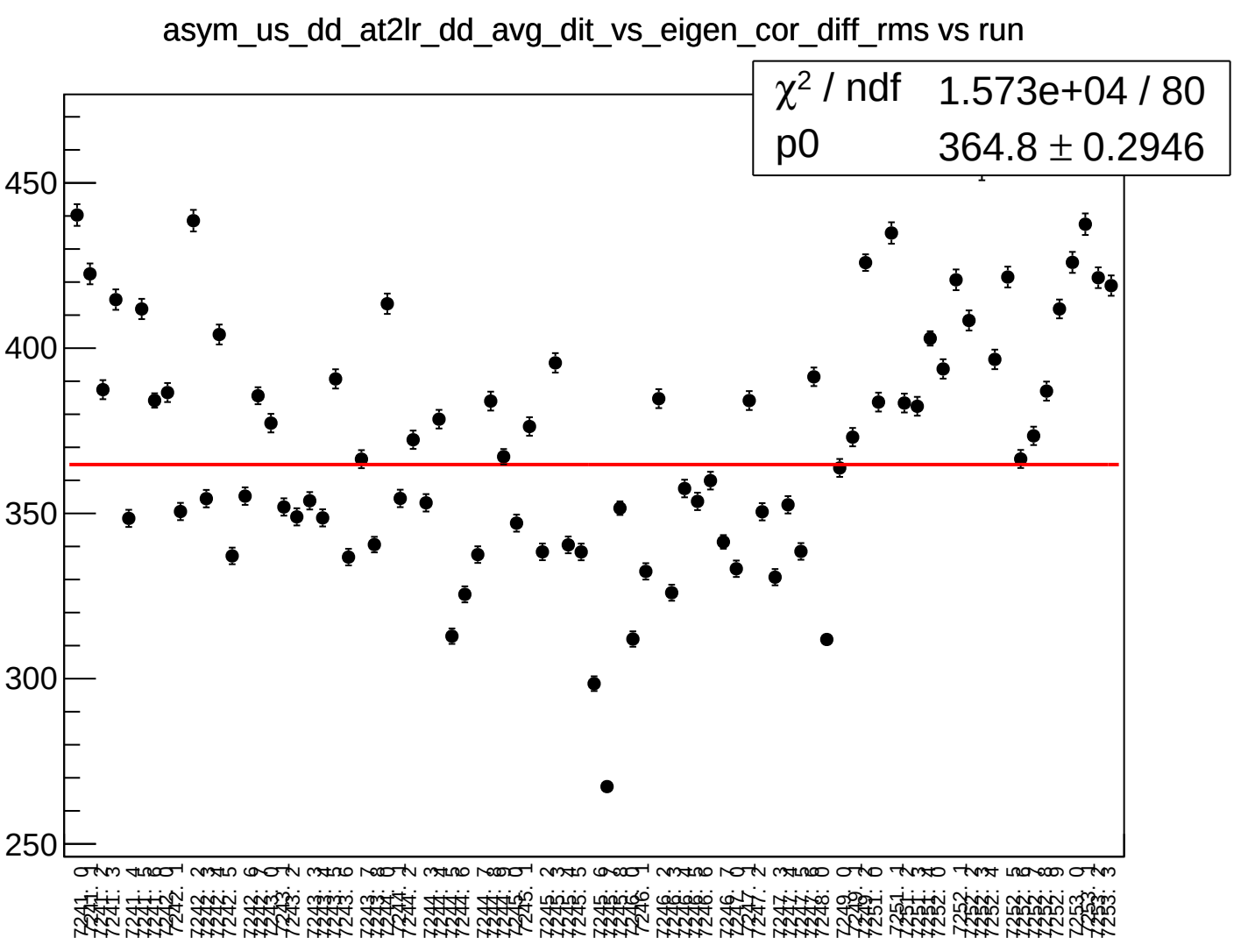

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 96.77 / 80
p0 3.567e−14 ± 5.161e−14
pull
Entries 81
Mean −6.68e+04
Std Dev 0
pull1D
Entries 81
Mean 7.526e−05
Std Dev 1.093

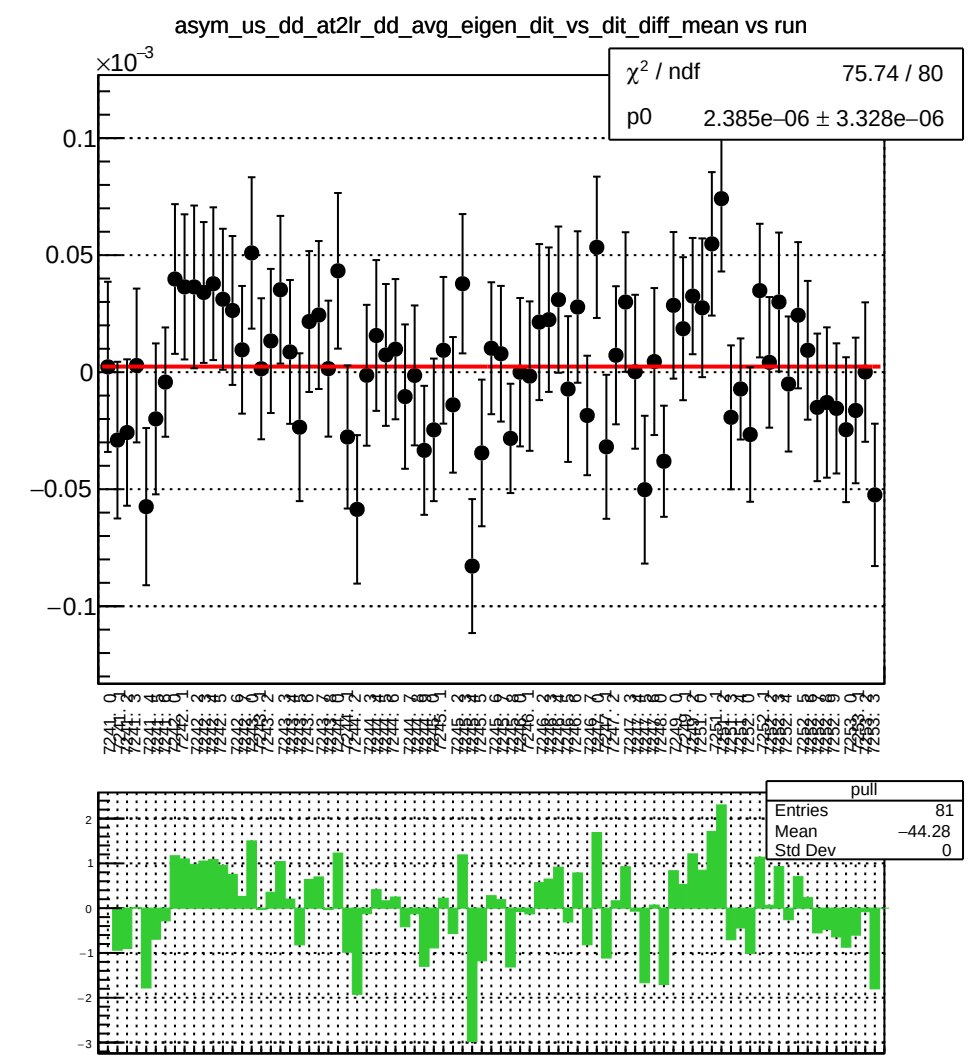

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.393e+05 / 80
p0 2.85e−11 ± 3.65e−14
1.2
1
0.8
0.6
0.4
0.2
0

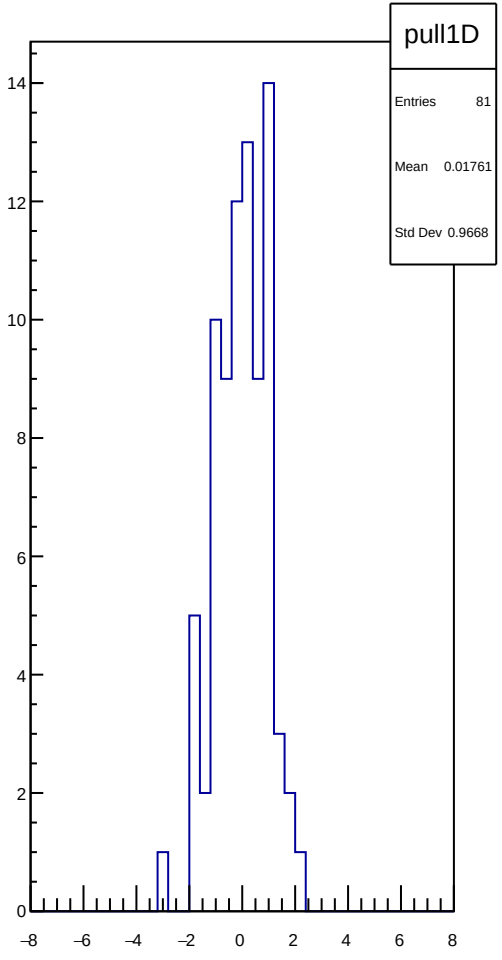

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 100 / 80
p0 0.1157 ± 0.4166
pull
Entries 81
Mean −89.14
Std Dev 0
pull1D
Entries 81
Mean −0.02628
Std Dev 1.111

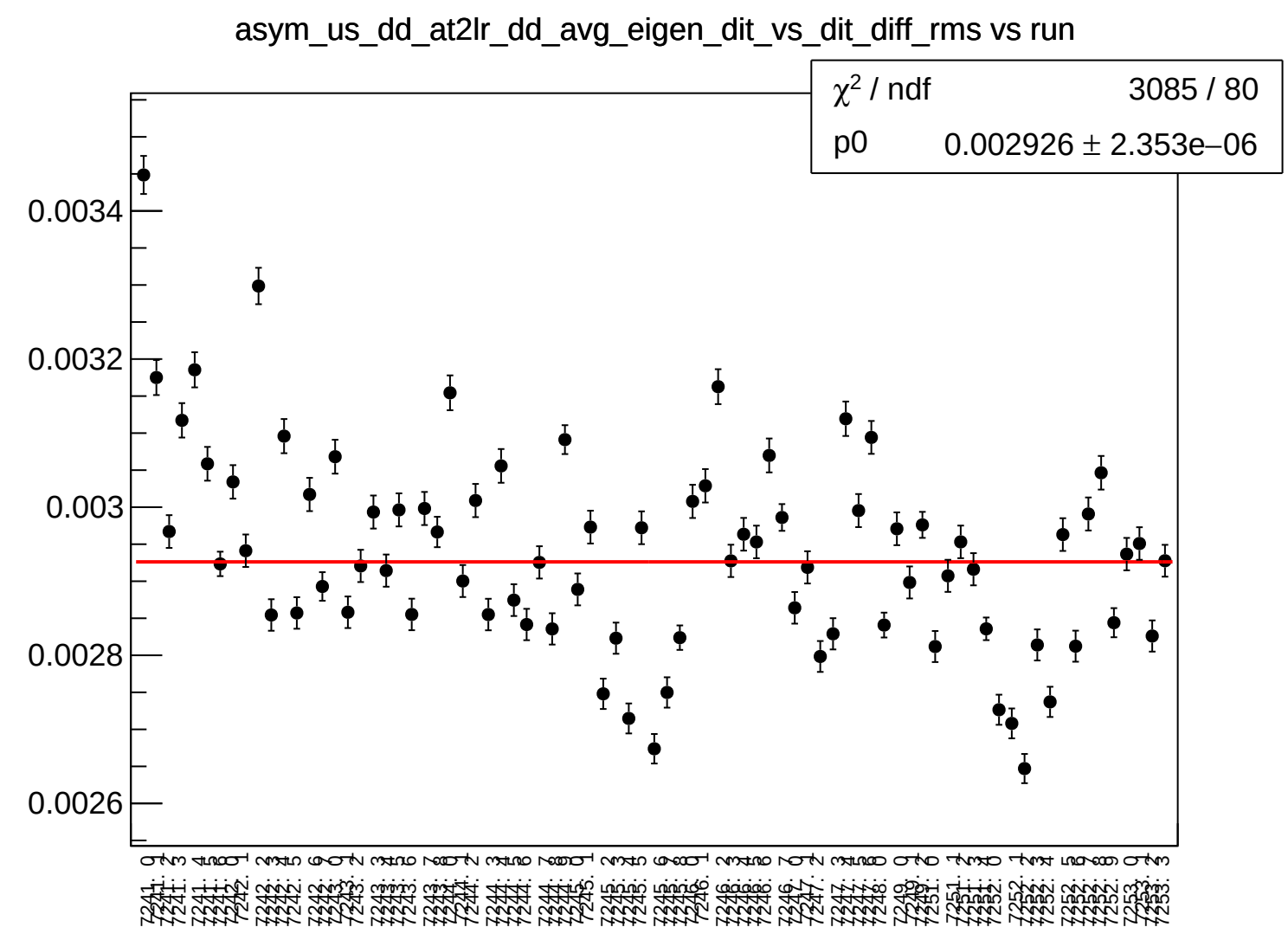

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.573e+04 / 80
p0 364.8 ± 0.2946
450
400
350
300
250

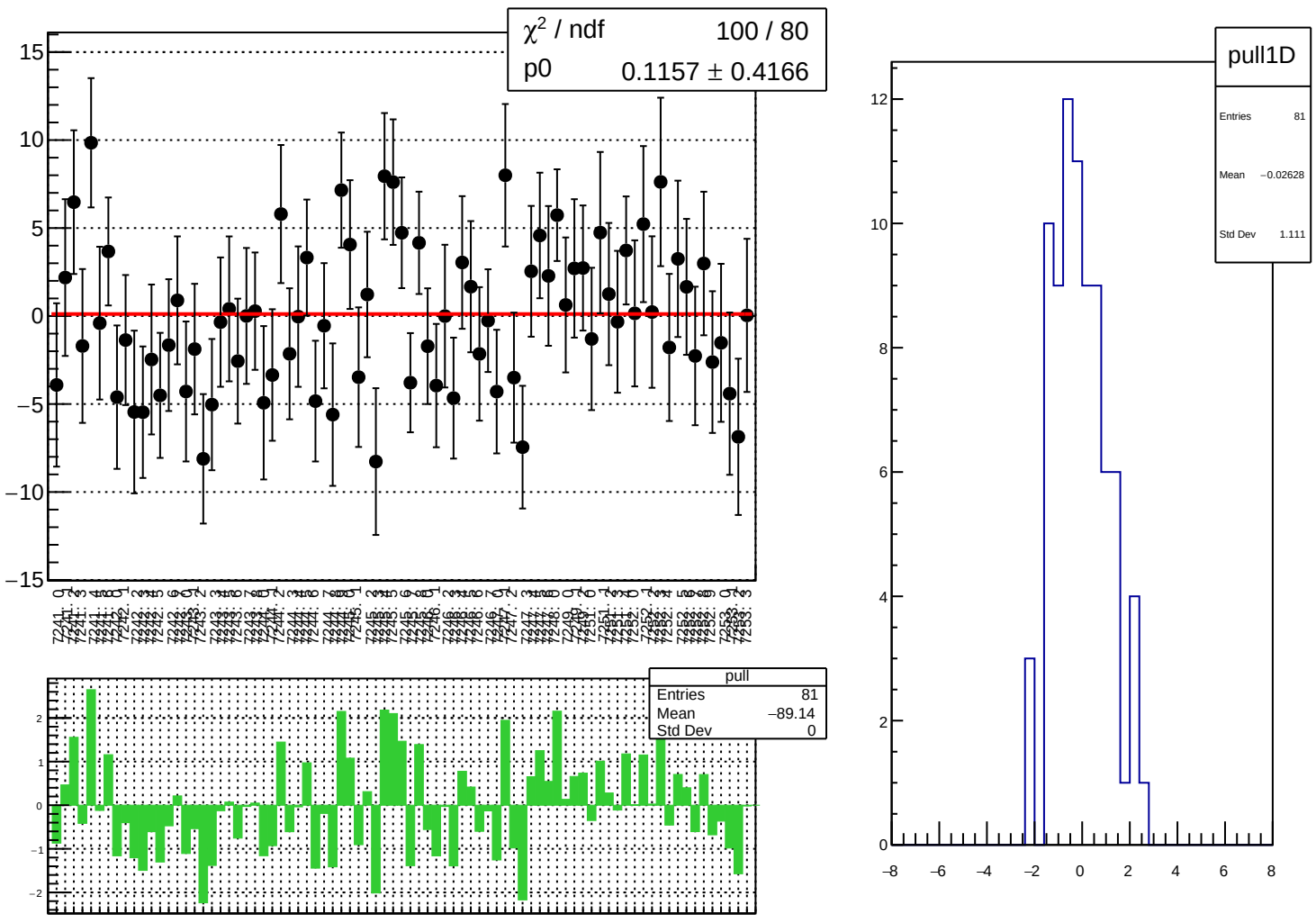

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100 / 80
p0 0.1157 ± 0.4166
pull
Entries 81
Mean −89.14
Std Dev 0
pull1D
Entries 81
Mean −0.02628
Std Dev 1.111

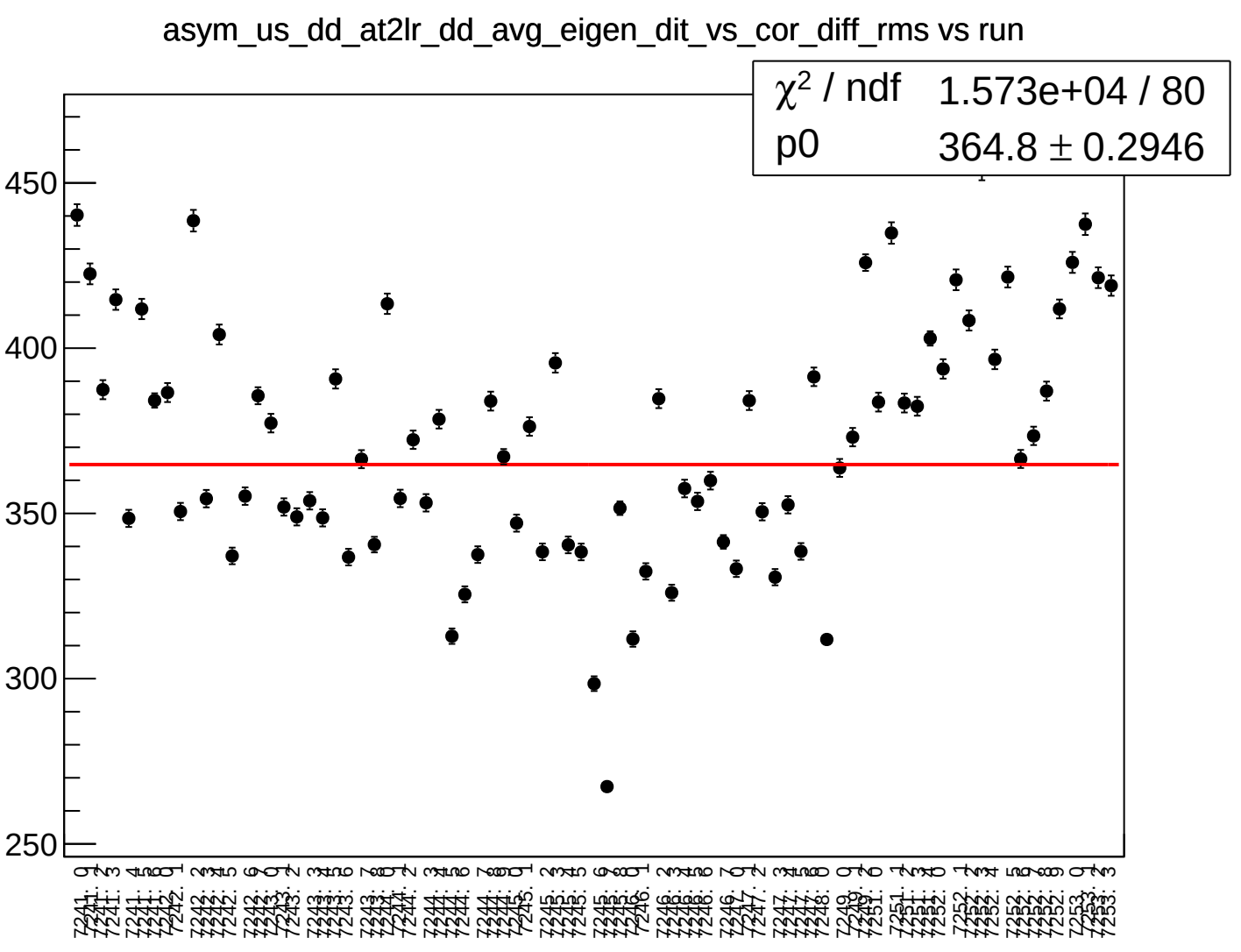

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.573e+04 / 80
p0 364.8 ± 0.2946
450
400
350
300
250

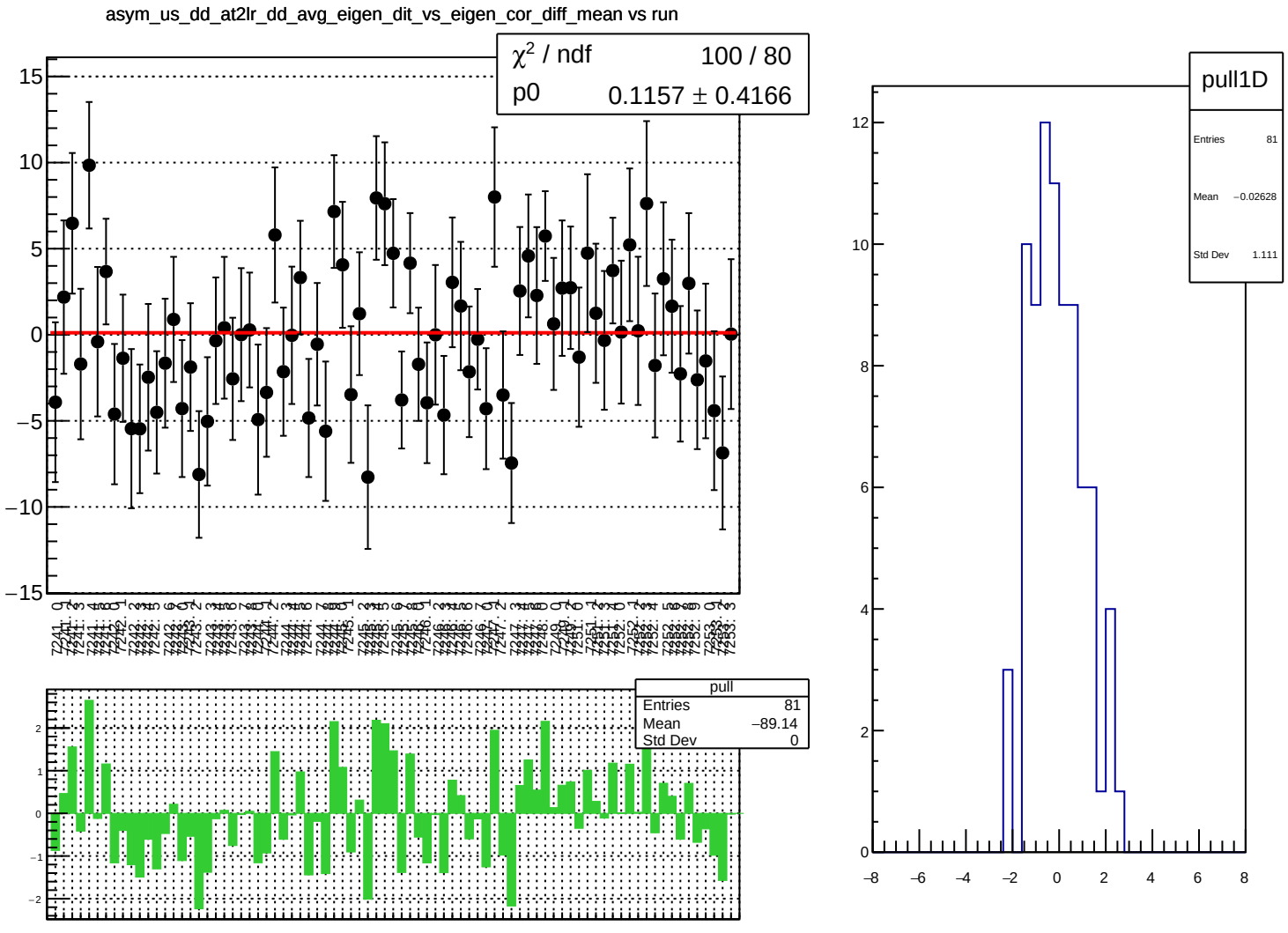

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.74 / 80
p0 2.385e−06 ± 3.328e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 81
Mean −44.28
Std Dev 0
2
1
0
−1
−2
−3

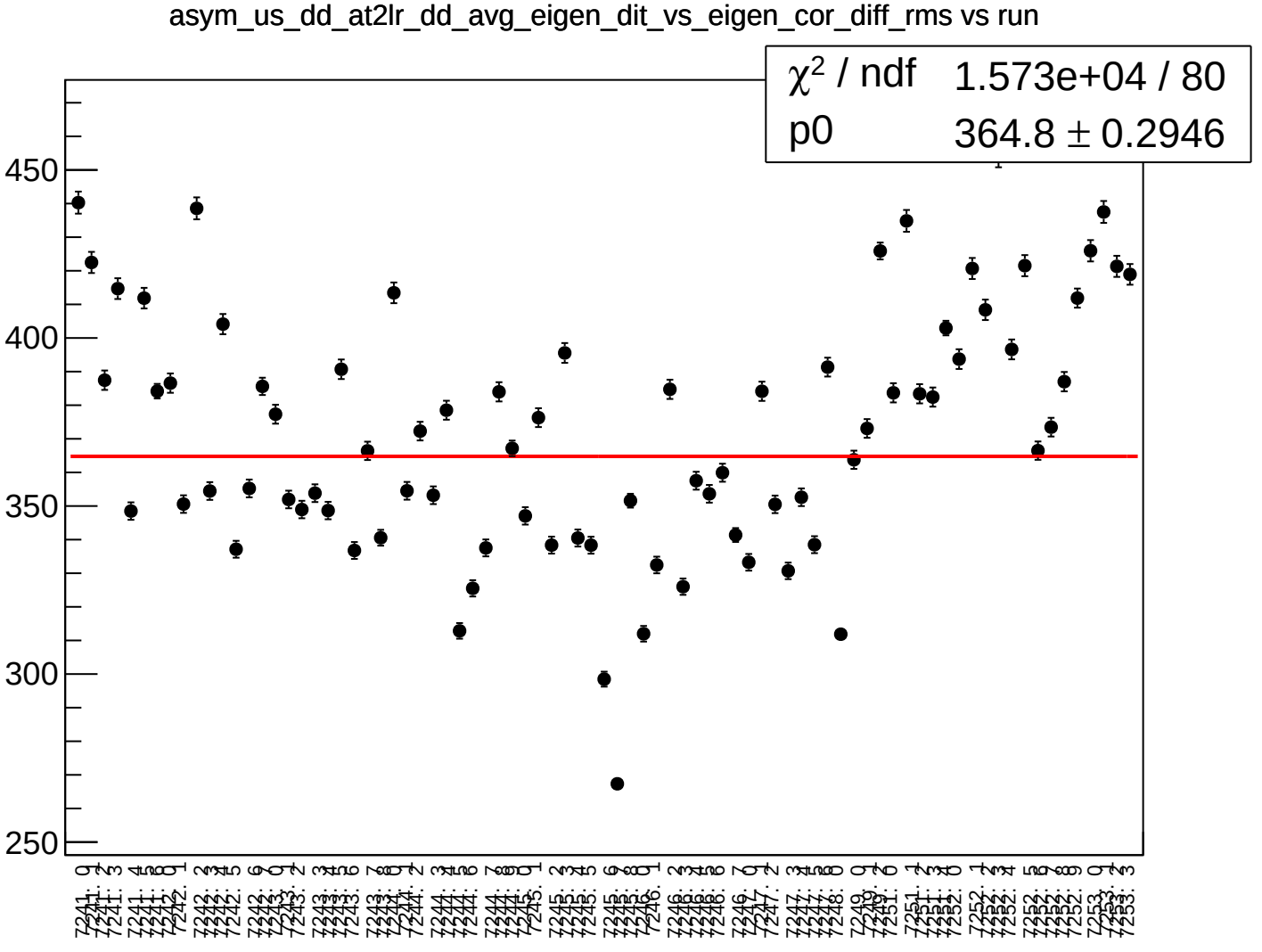

pull1D
Entries 81
Mean 0.01761
Std Dev 0.9668
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

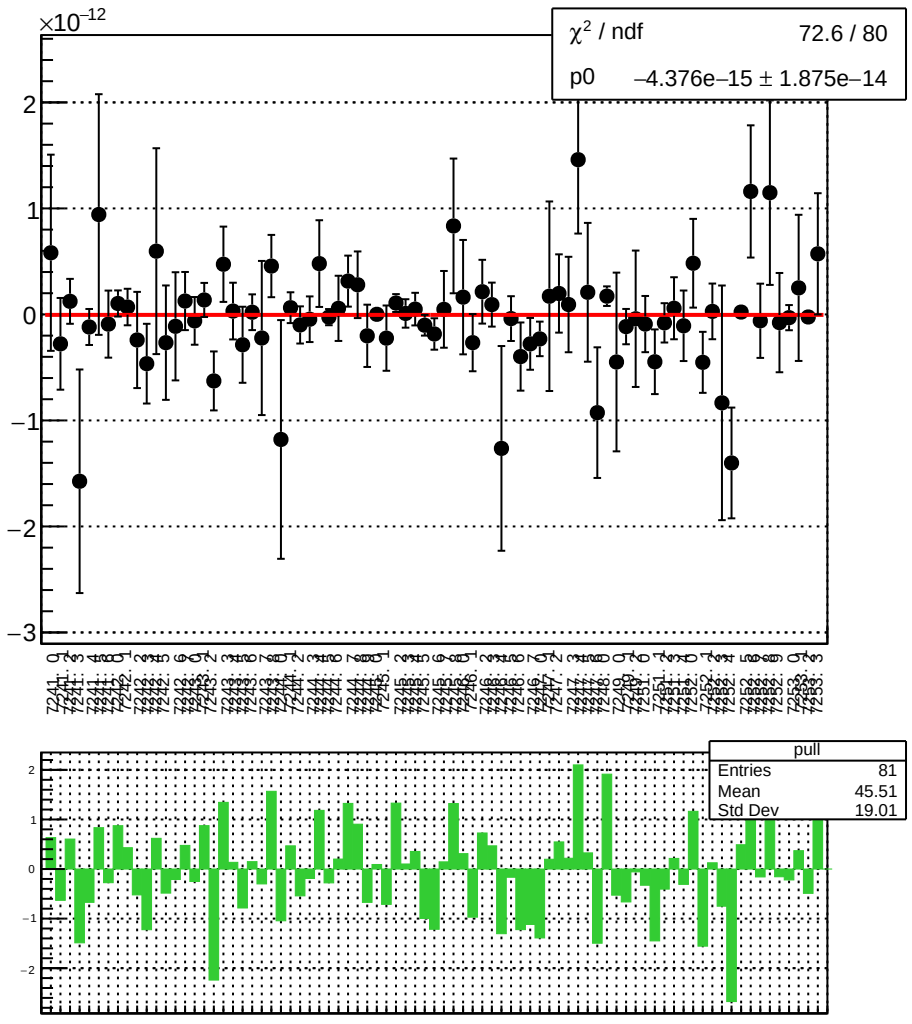

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3085 / 80
p0 0.002926 ± 2.353e−06
0.0034
0.0032
0.003
0.0028
0.0026

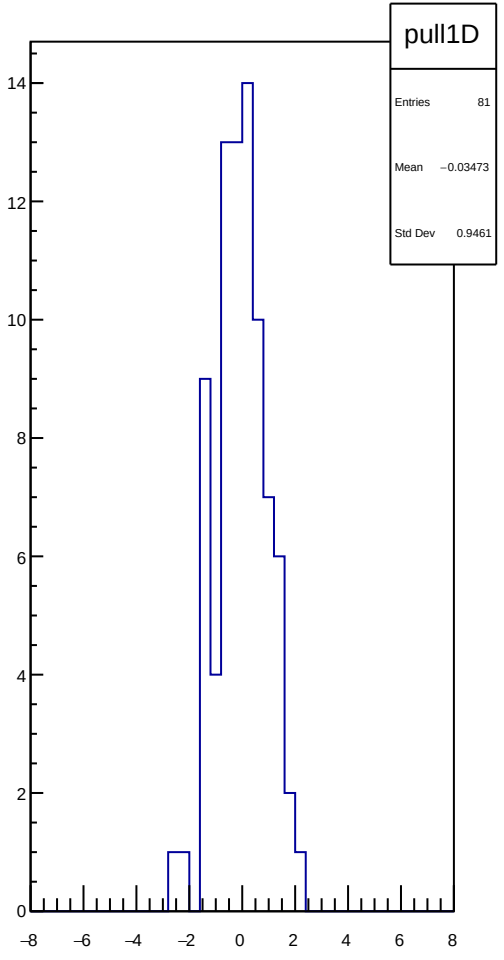

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100 / 80
p0 0.1157 ± 0.4166
pull
Entries 81
Mean −89.14
Std Dev 0
pull1D
Entries 81
Mean −0.02628
Std Dev 1.111

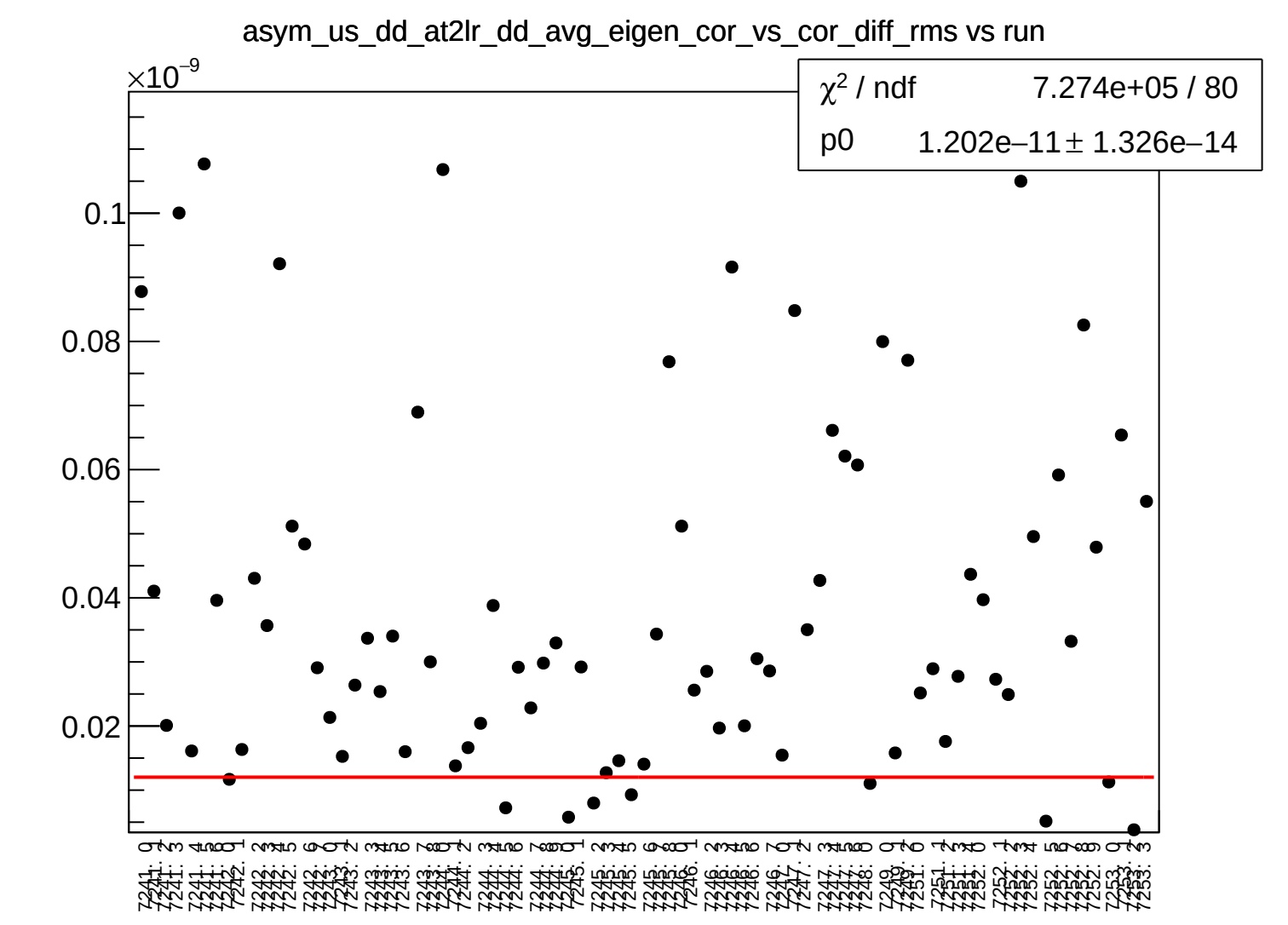

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.573e+04 / 80
p0 364.8 ± 0.2946
450
400
350
300
250

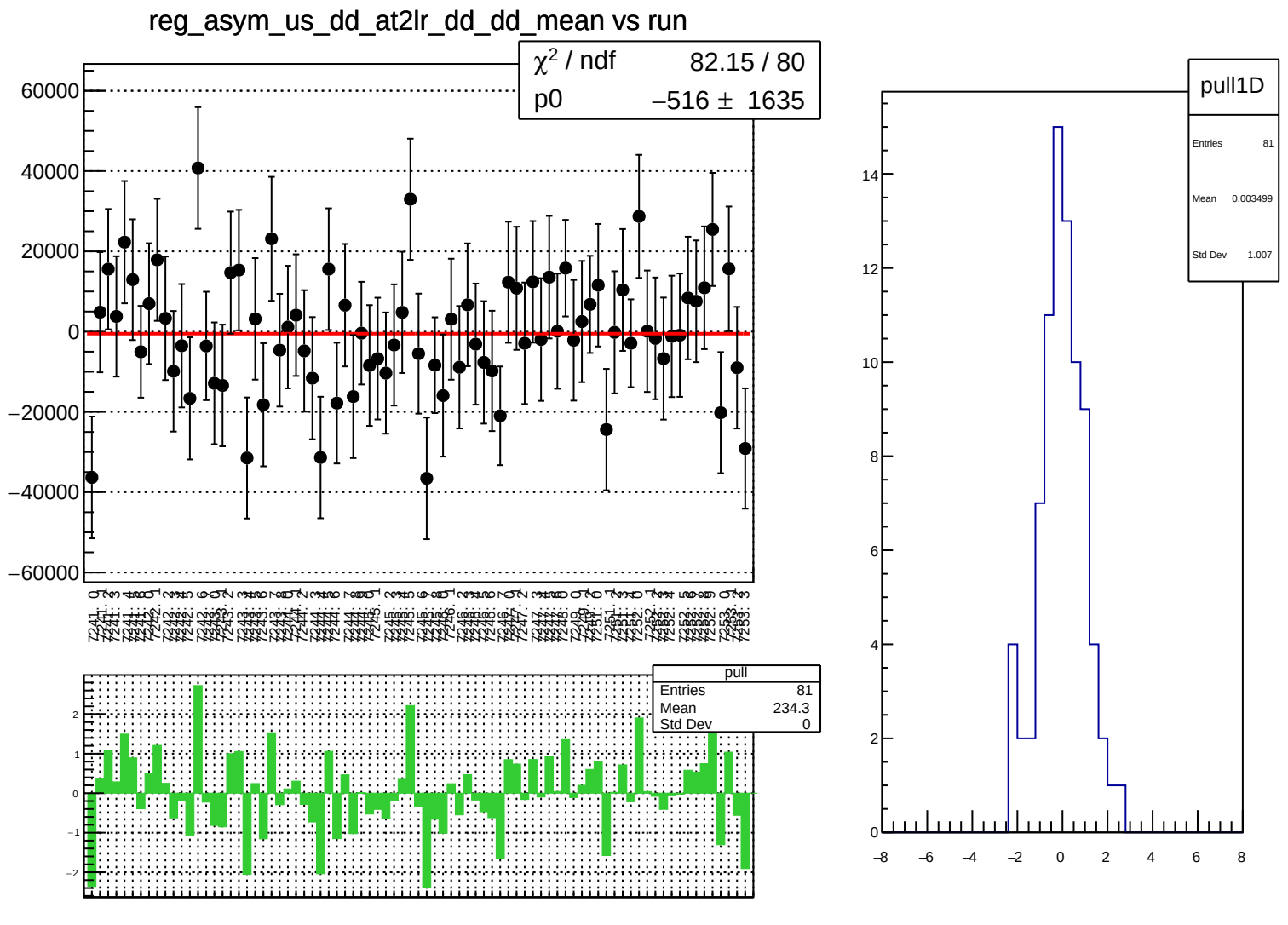

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100 / 80
p0 0.1157 ± 0.4166
pull
Entries 81
Mean −89.14
Std Dev 0
pull1D
Entries 81
Mean −0.02628
Std Dev 1.111

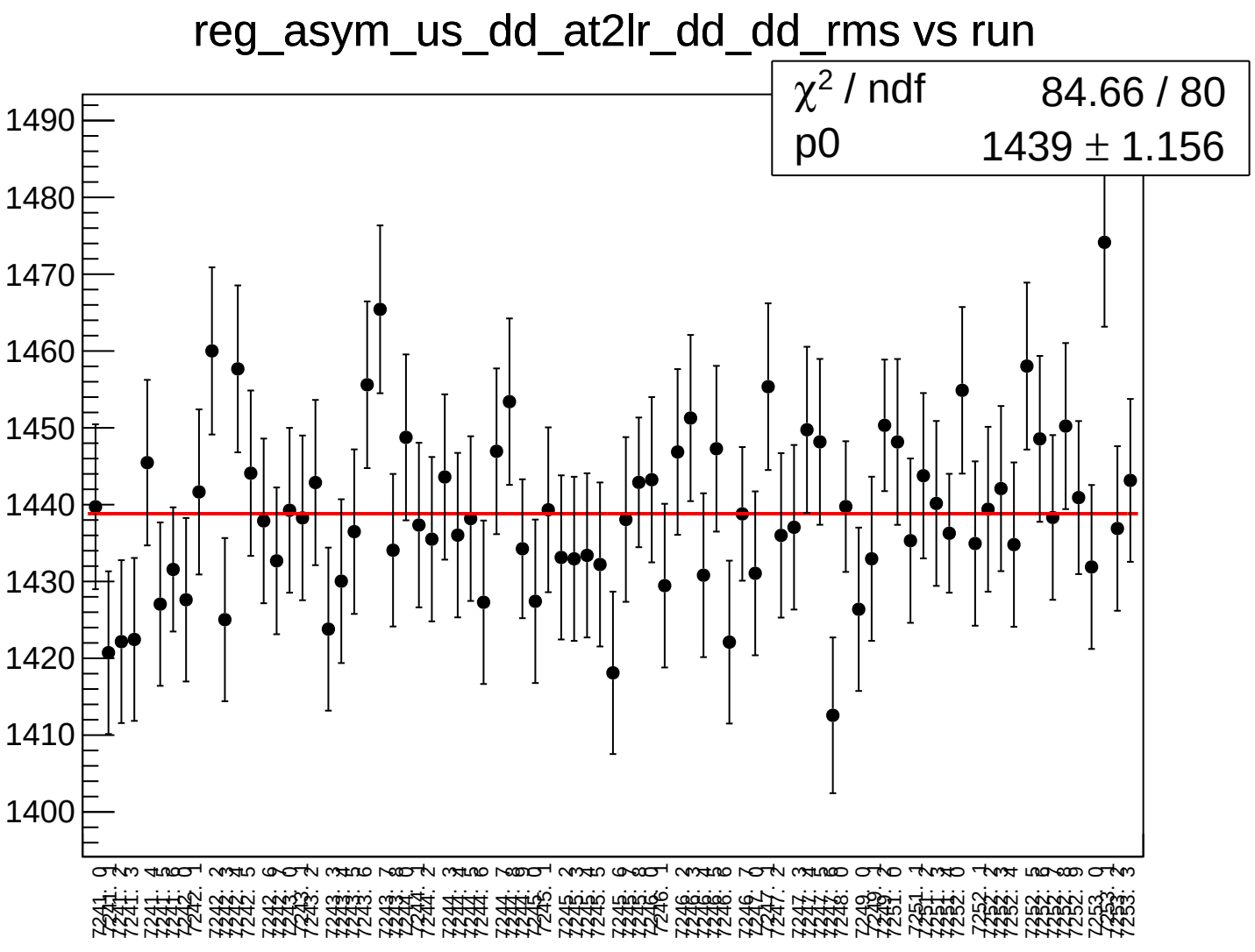

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.573e+04 / 80
p0 364.8 ± 0.2946
450
400
350
300
250

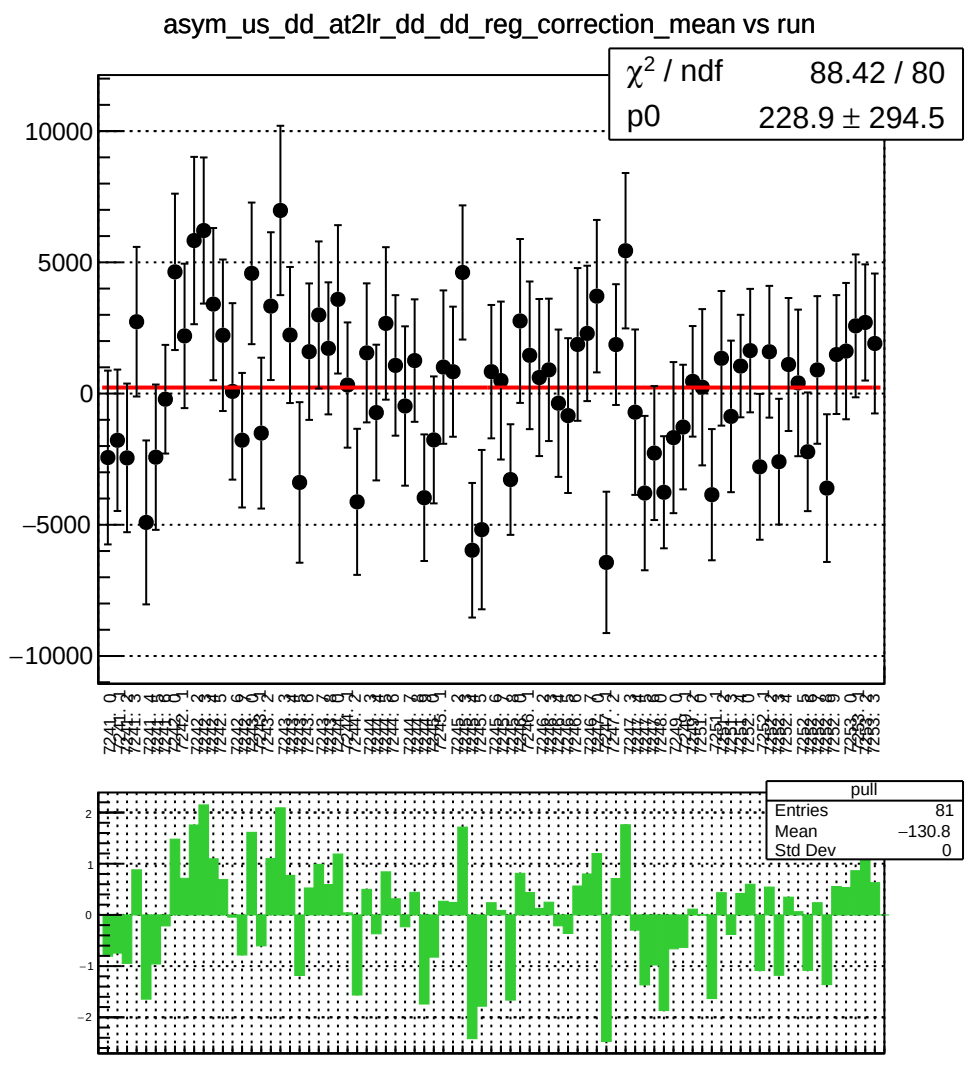

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.6 / 80
p0 −4.376e−15 ± 1.875e−14
pull
Entries 81
Mean 45.51
Std Dev 19.01

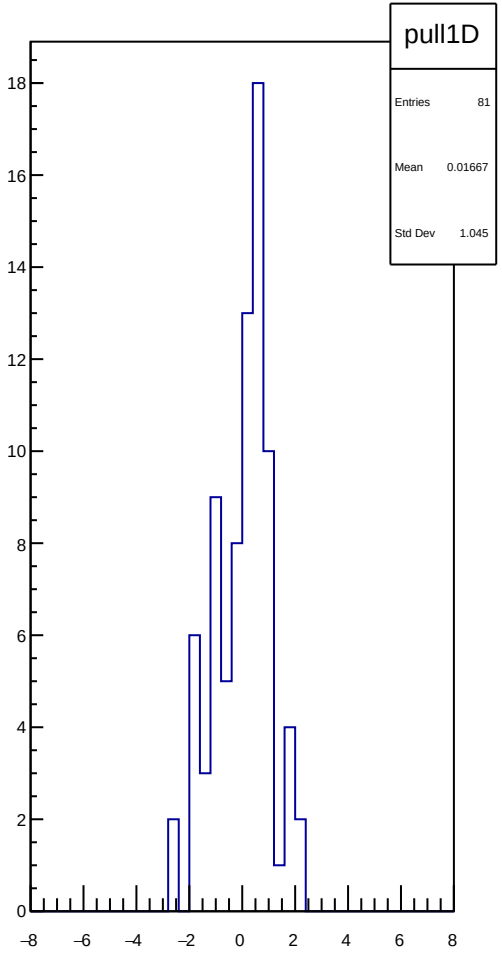

pull1D
Entries 81
Mean −0.03473
Std Dev 0.9461

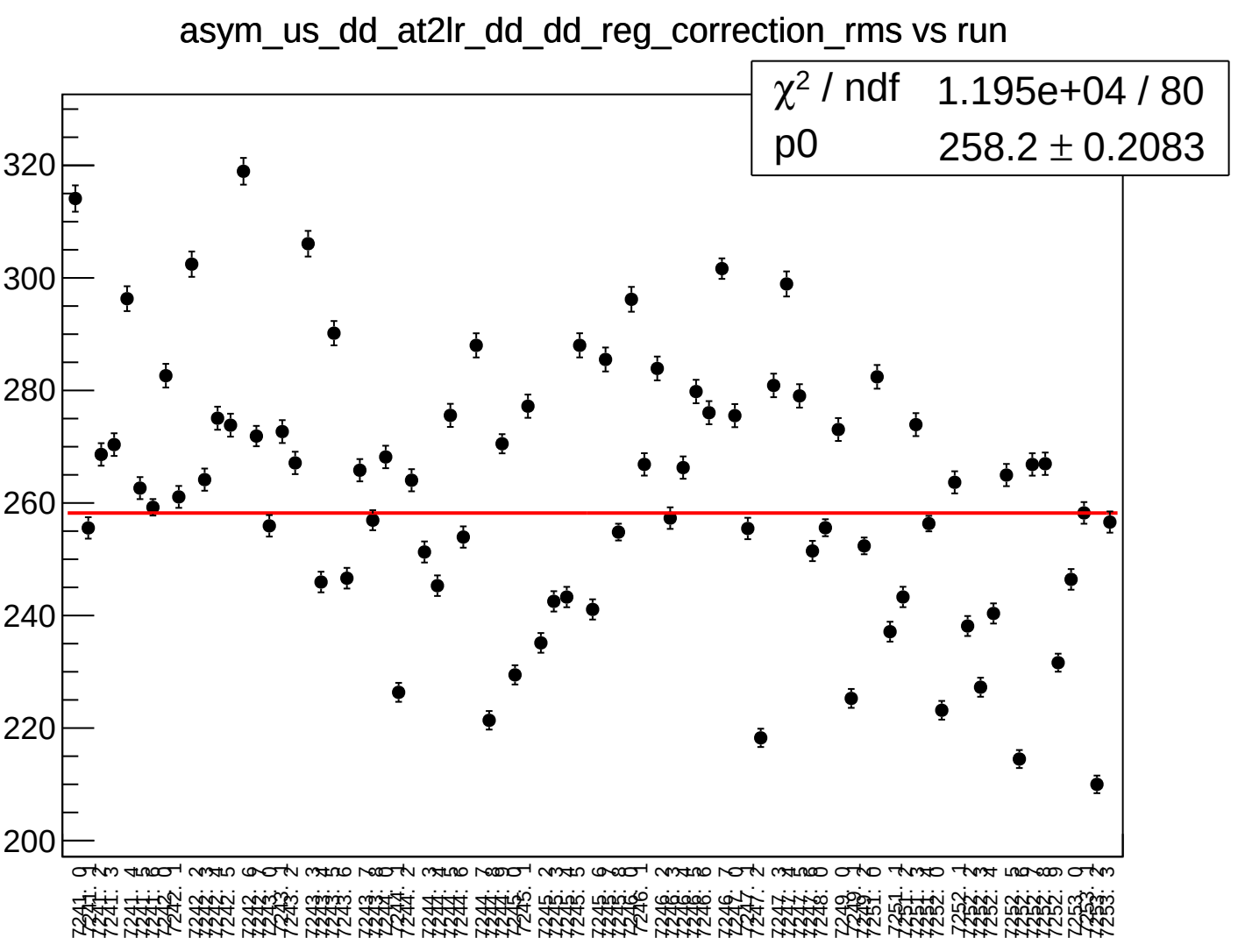

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.274e+05 / 80
p0 1.202e−11 ± 1.326e−14
0.1
0.08
0.06
0.04
0.02

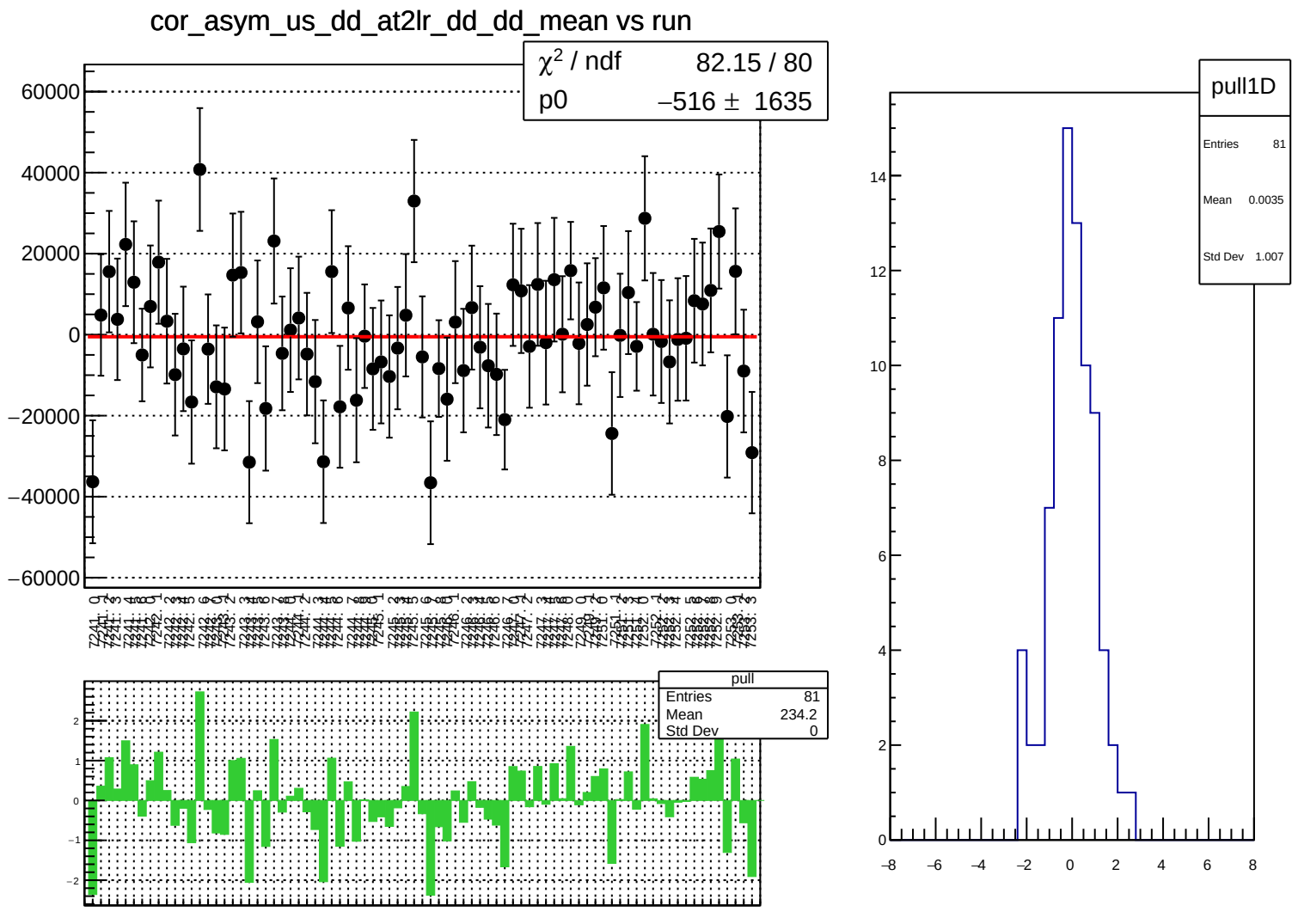

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 82.15 / 80
p0 −516 ± 1635
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean 234.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 81
Mean 0.003499
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

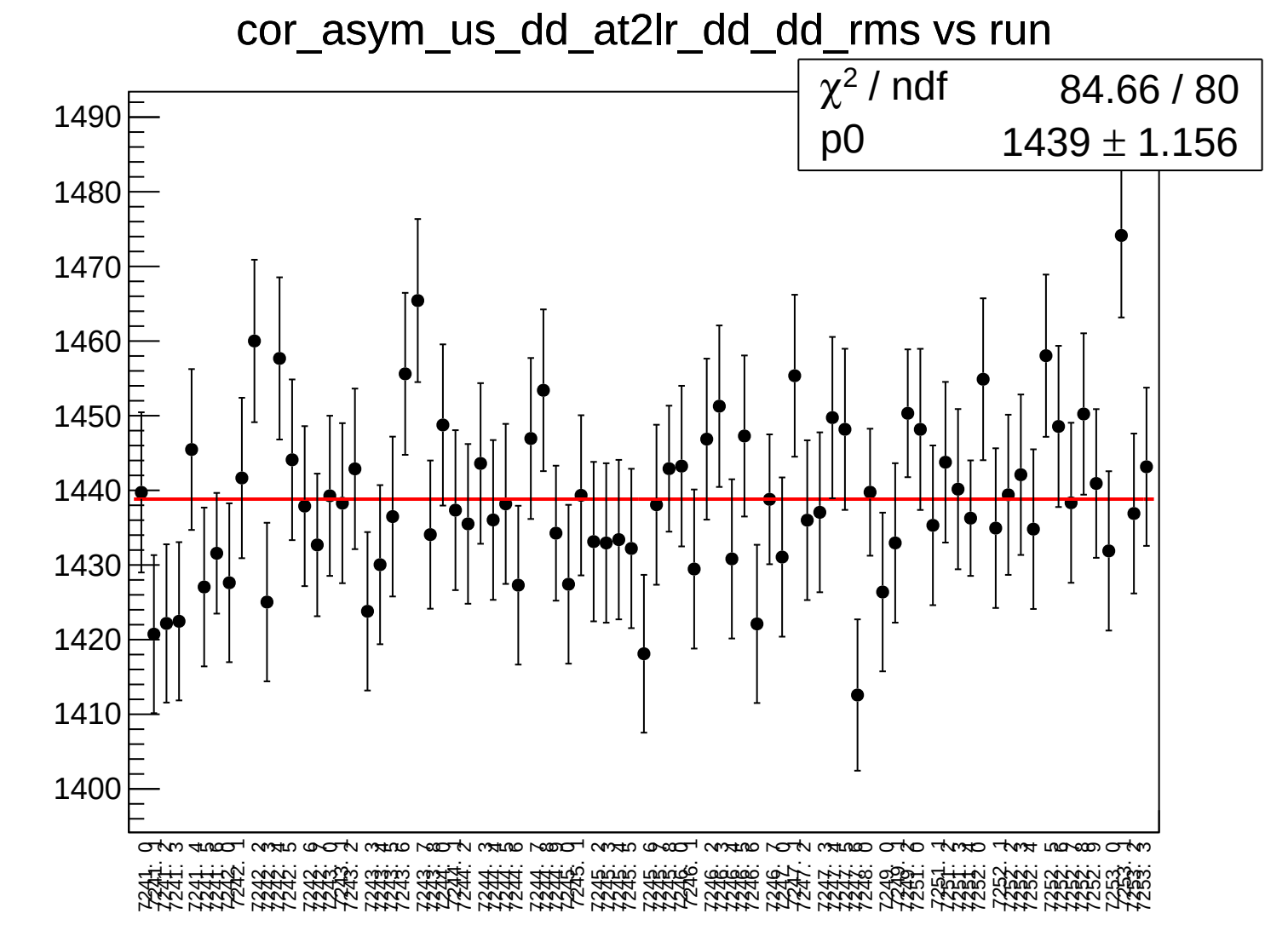

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ^2 / ndf 84.66 / 80
p0 1439 ± 1.156
1490
1480
1470
1460
1450
1440
1430
1420
1410
1400

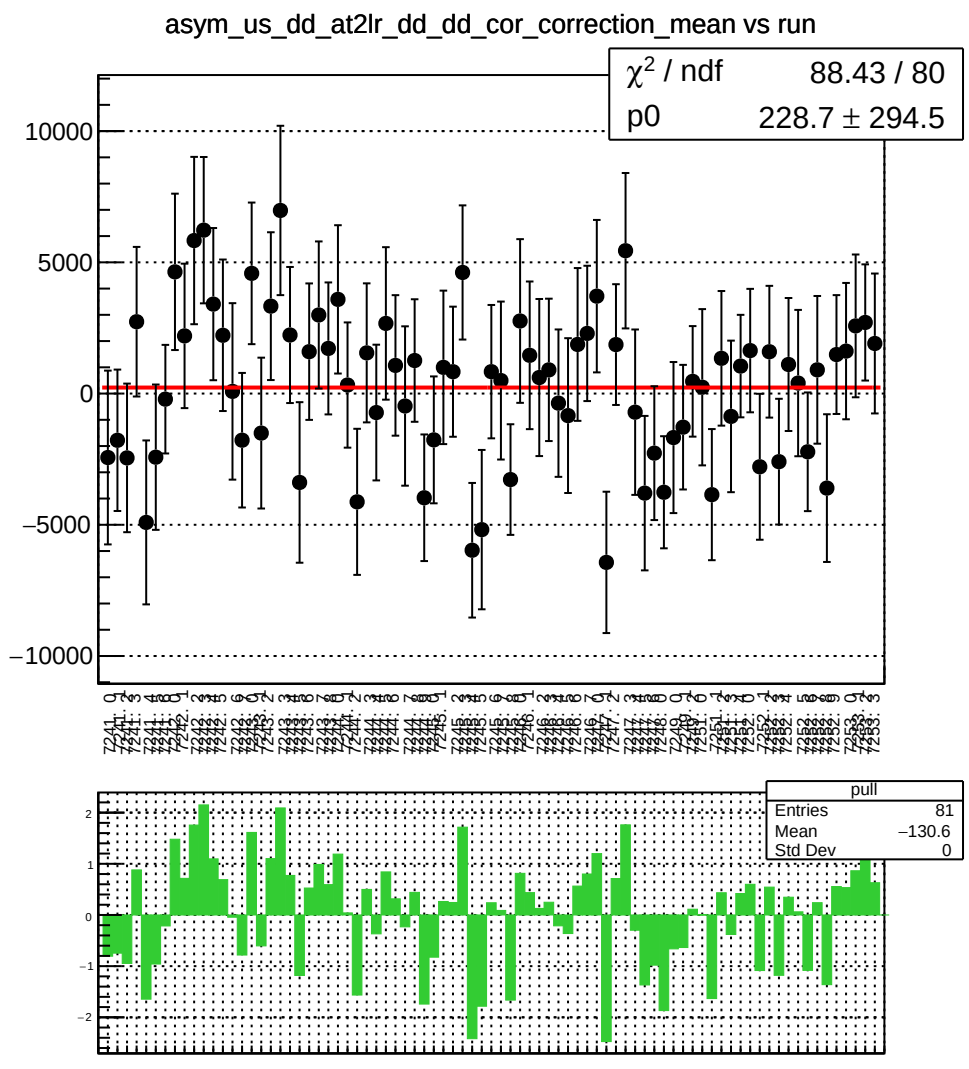

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 88.42 / 80
p0 228.9 ± 294.5
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −130.8
Std Dev 0
2
1
0
−1
−2

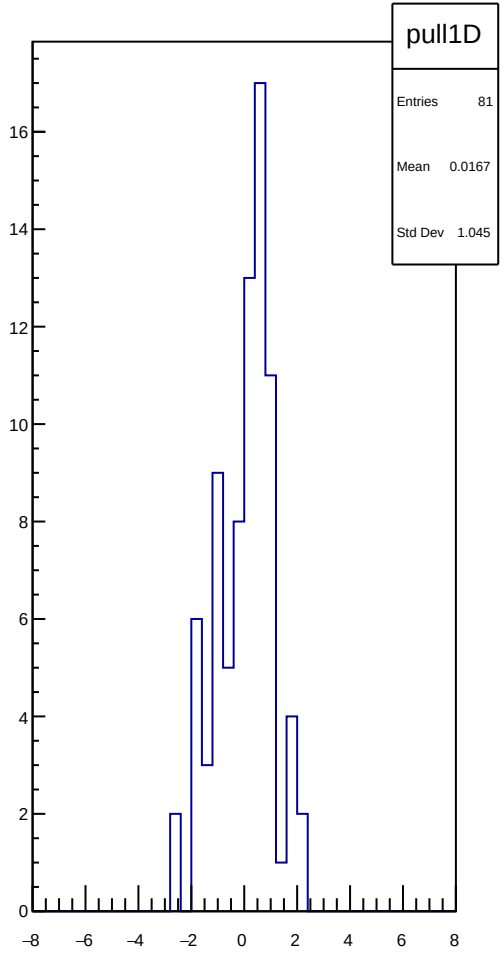

pull1D
Entries 81
Mean 0.01667
Std Dev 1.045
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

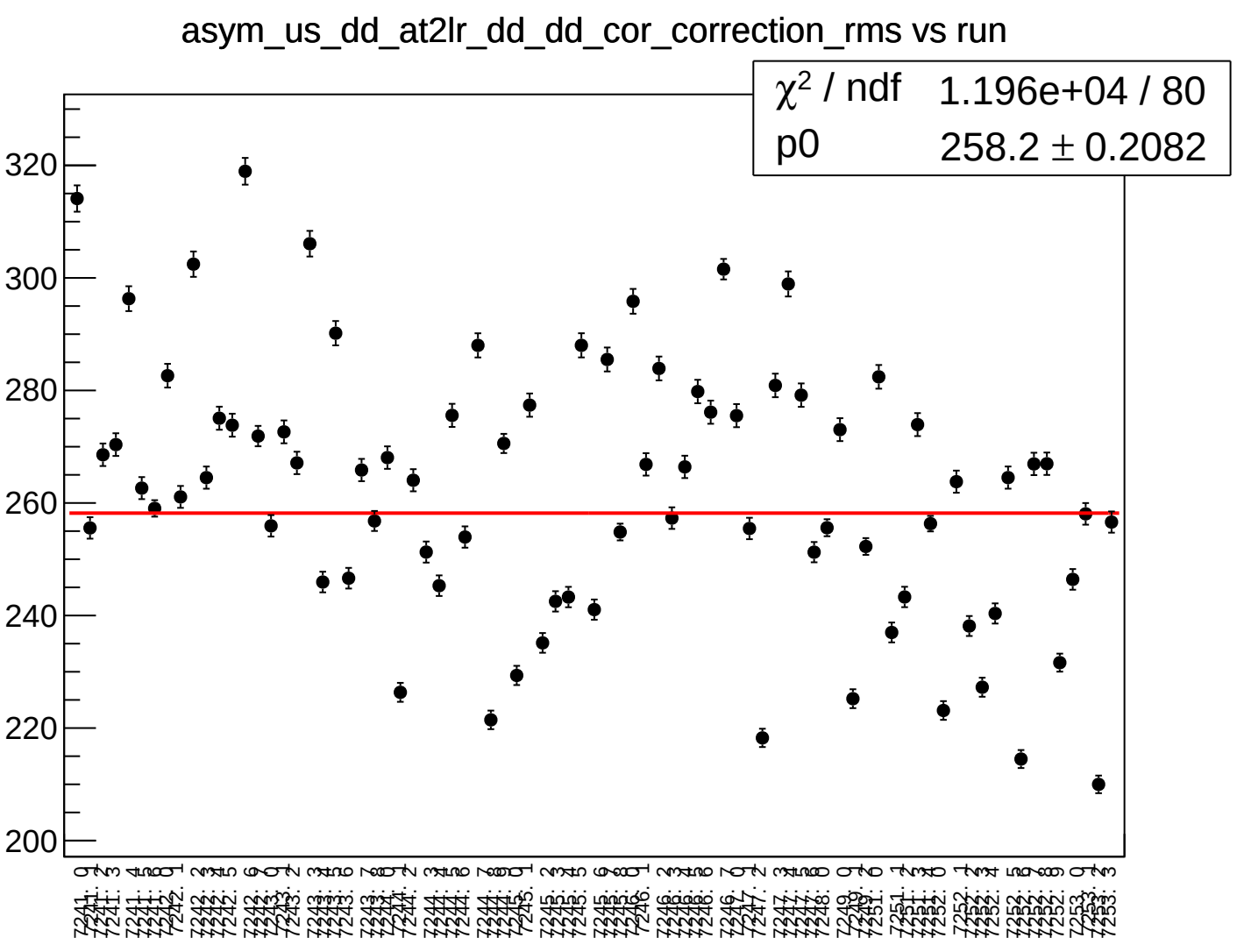

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.195e+04 / 80
p0 258.2 ± 0.2083
320
300
280
260
240
220
200

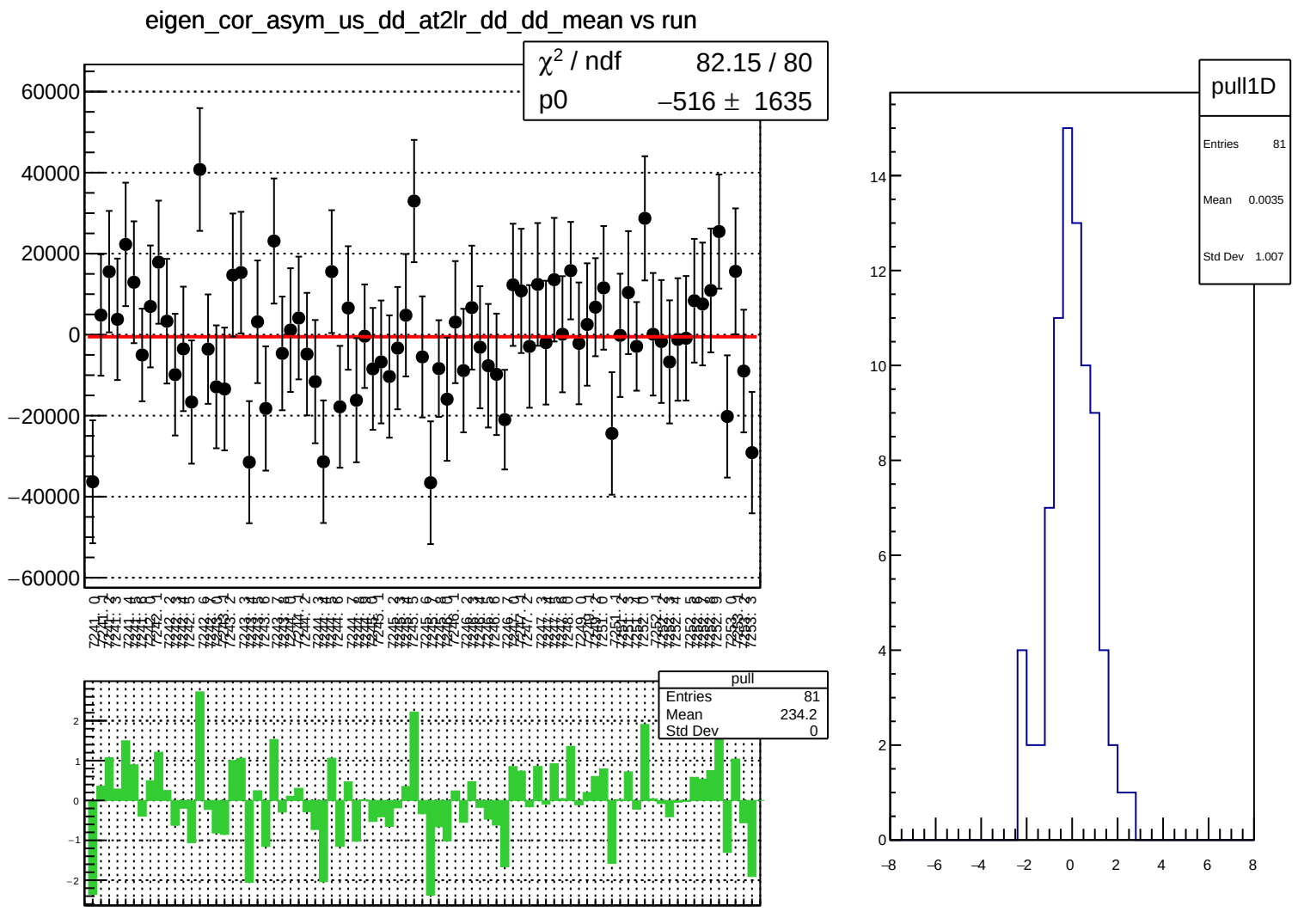

cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 82.15 / 80
p0 −516 ± 1635
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean 234.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 81
Mean 0.0035
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

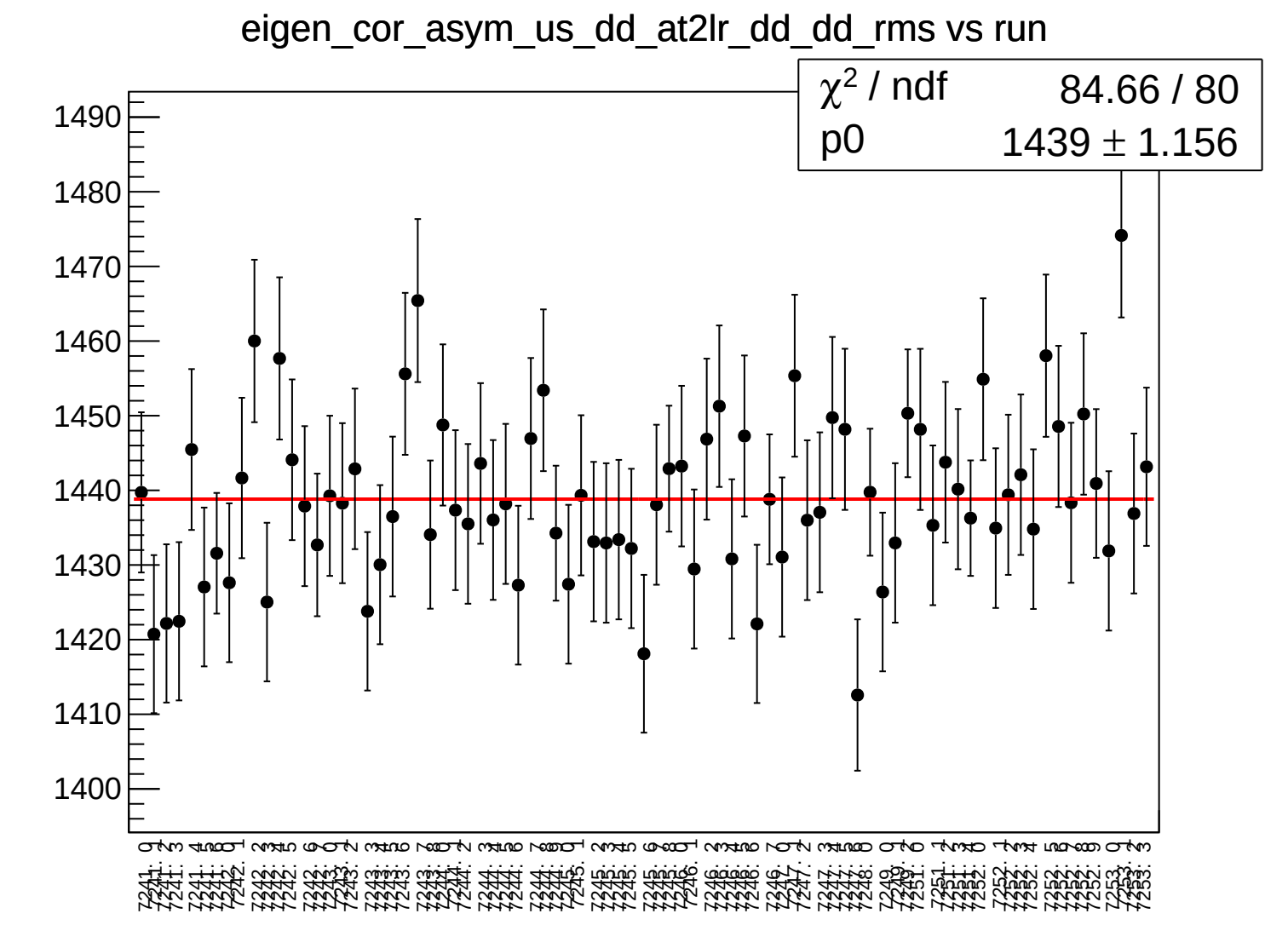

cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 84.66 / 80
p0 1439 ± 1.156
1490
1480
1470
1460
1450
1440
1430
1420
1410
1400

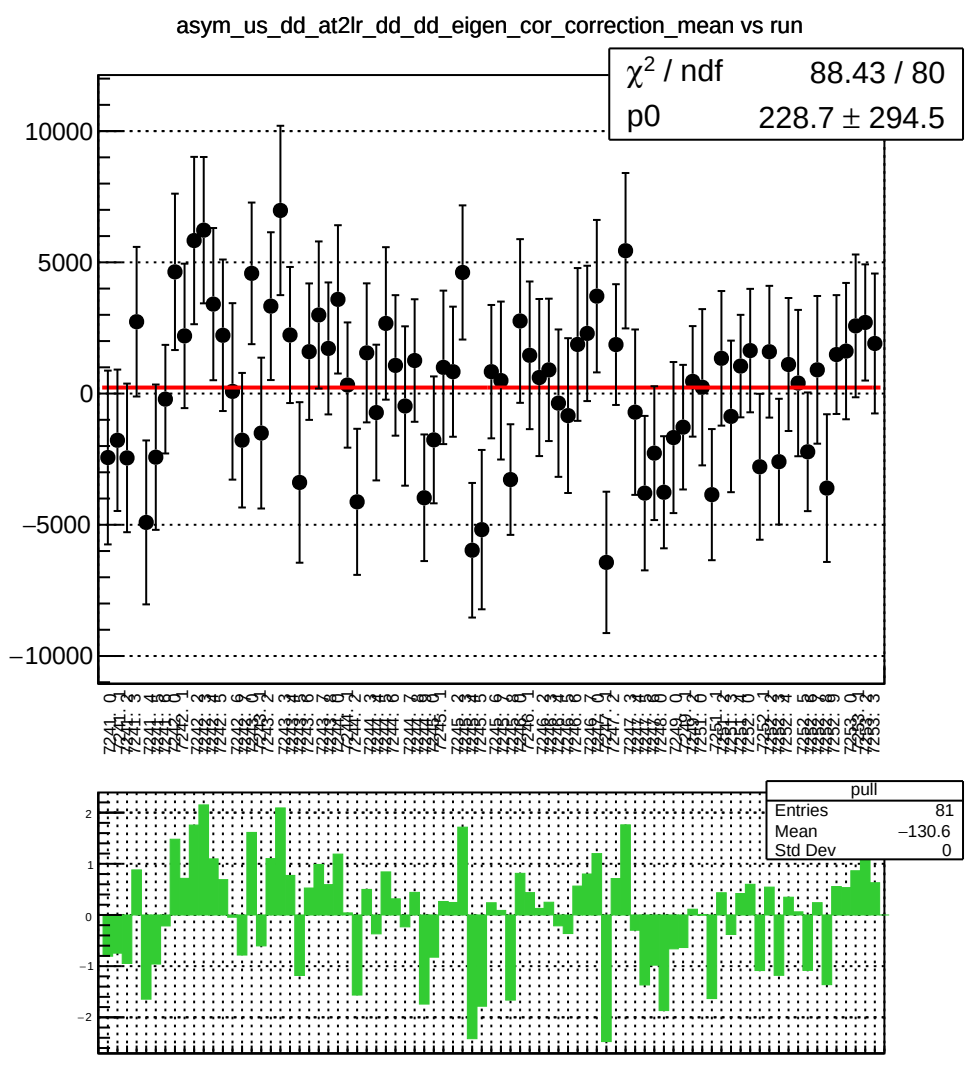

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 88.43 / 80
p0 228.7 ± 294.5
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −130.6
Std Dev 0
2
1
0
−1
−2

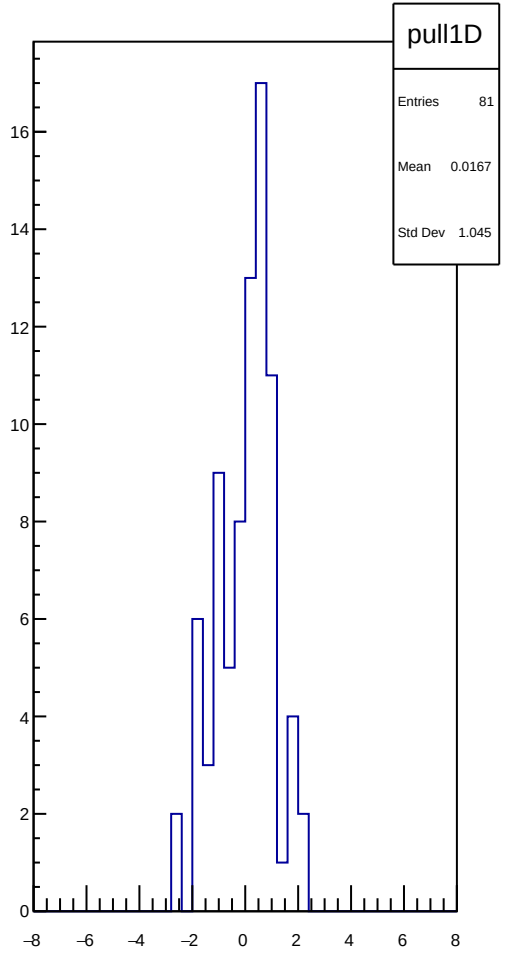

pull1D
Entries 81
Mean 0.0167
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

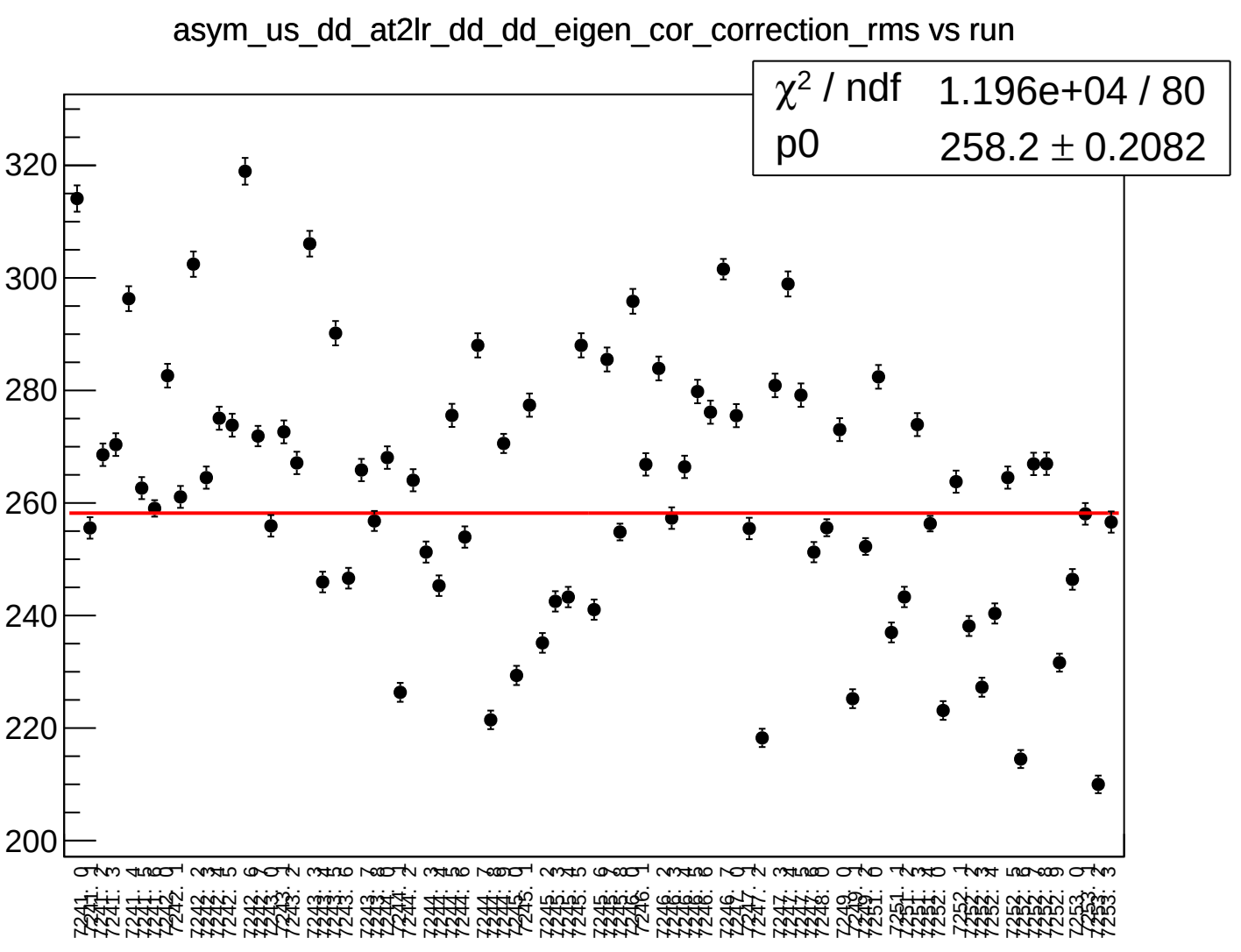

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.196e+04 / 80
p0 258.2 ± 0.2082
320
300
280
260
240
220
200

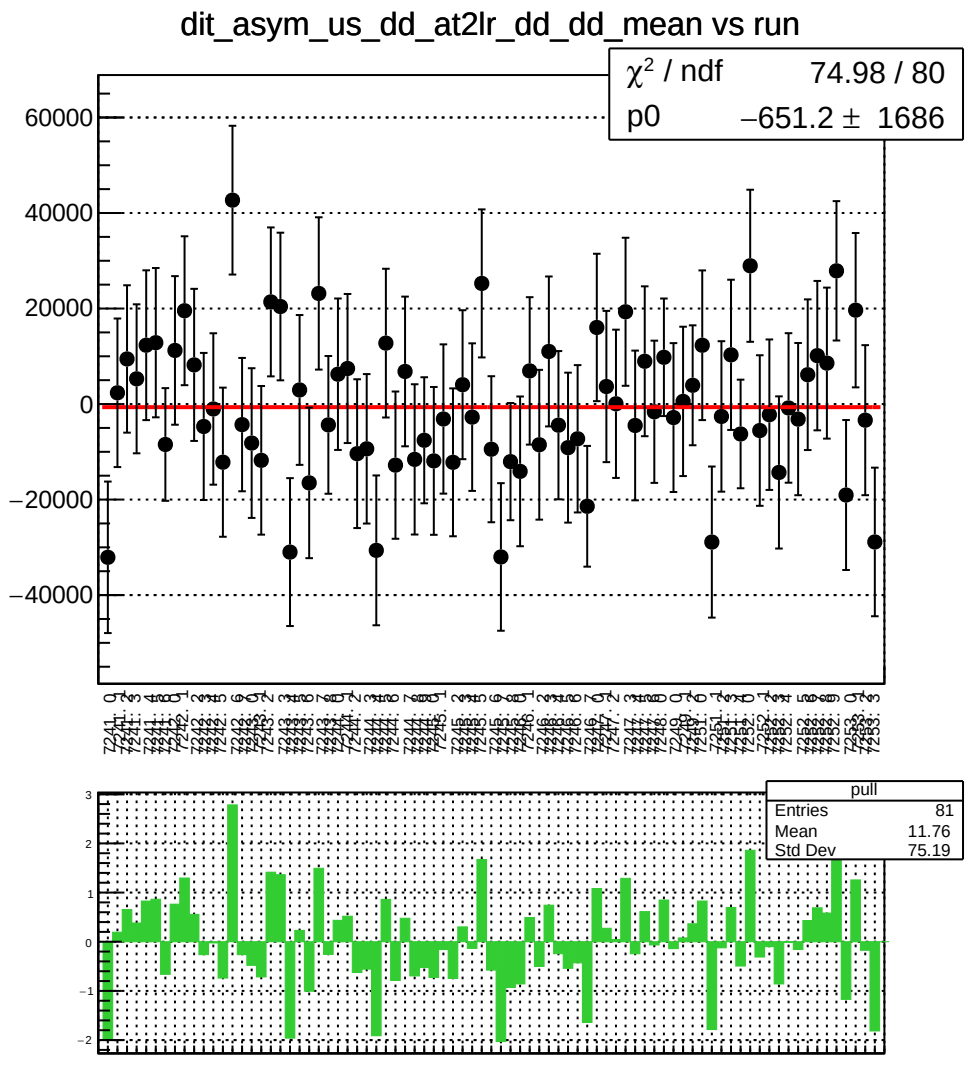

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 82.15 / 80
p0 −516 ± 1635
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean 234.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 81
Mean 0.0035
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

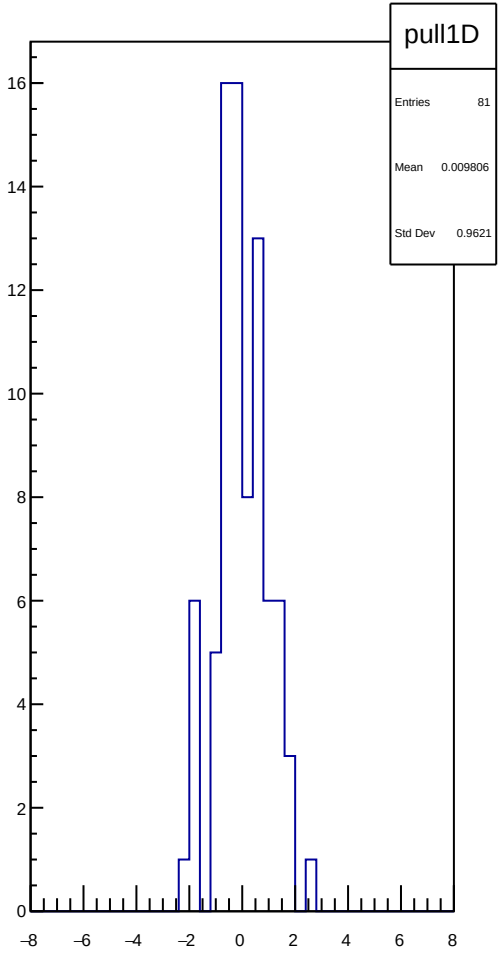

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ^2 / ndf 84.66 / 80
p0 1439 ± 1.156
1490
1480
1470
1460
1450
1440
1430
1420
1410
1400

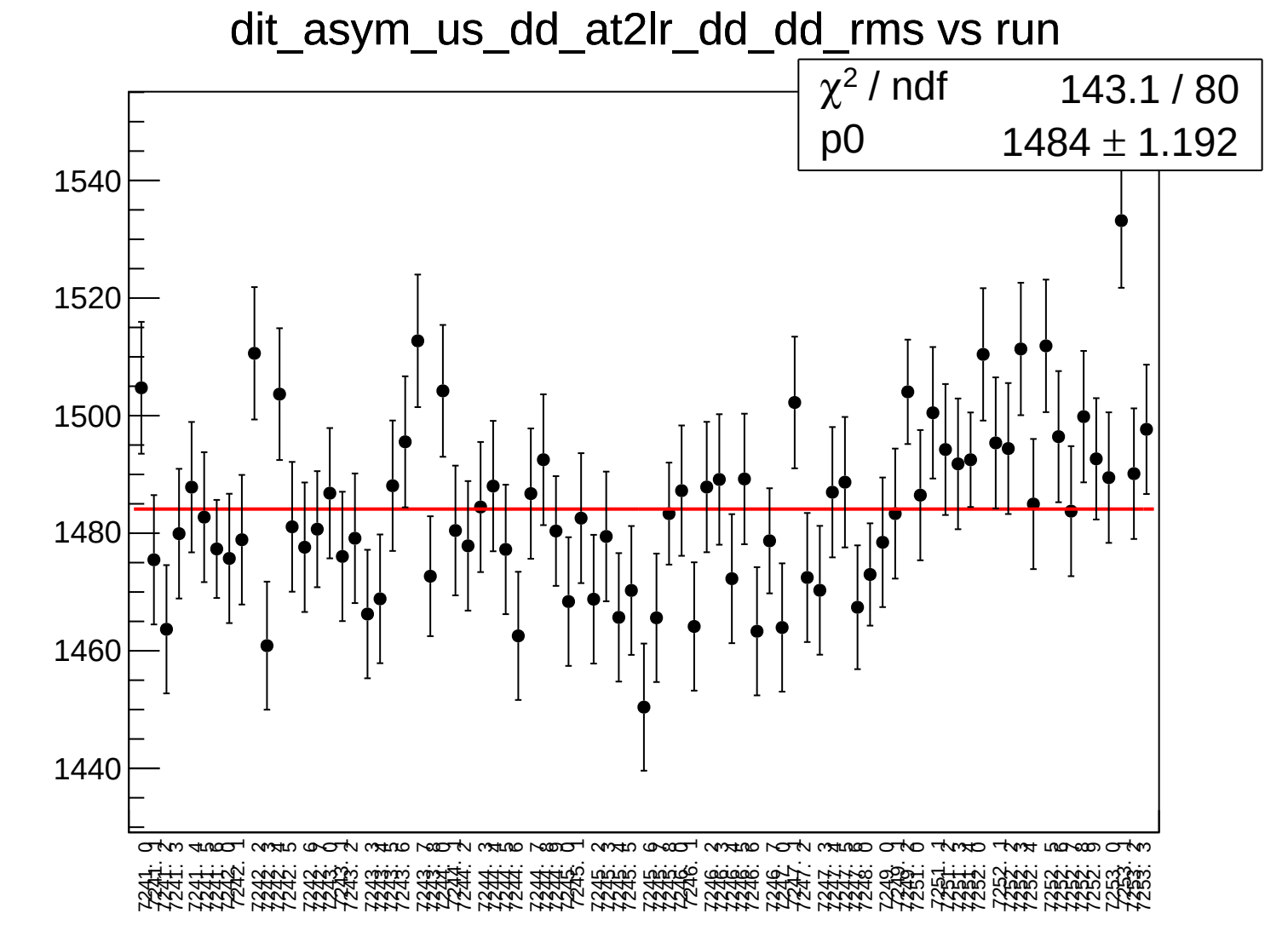

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 88.43 / 80
p0 228.7 ± 294.5
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −130.6
Std Dev 0
2
1
0
−1
−2

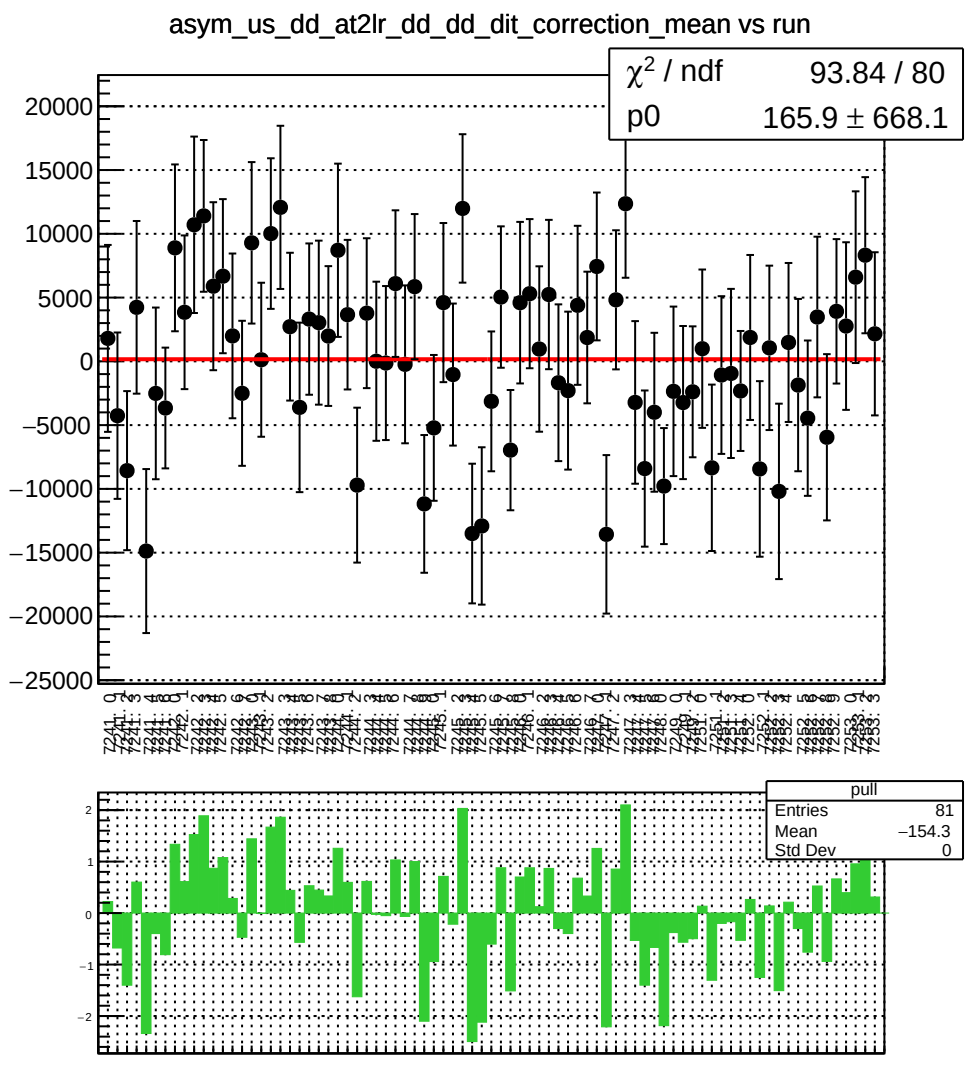

pull1D
Entries 81
Mean 0.0167
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

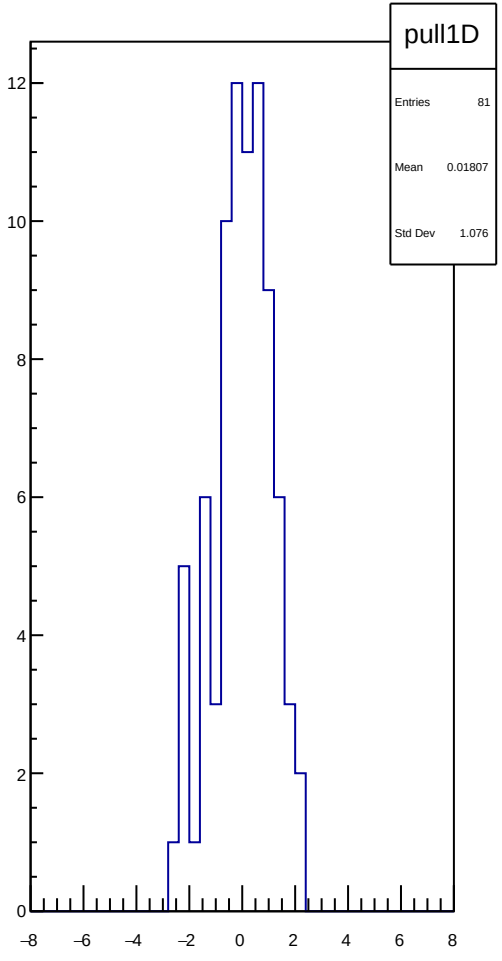

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.196e+04 / 80
p0 258.2 ± 0.2082
320
300
280
260
240
220
200

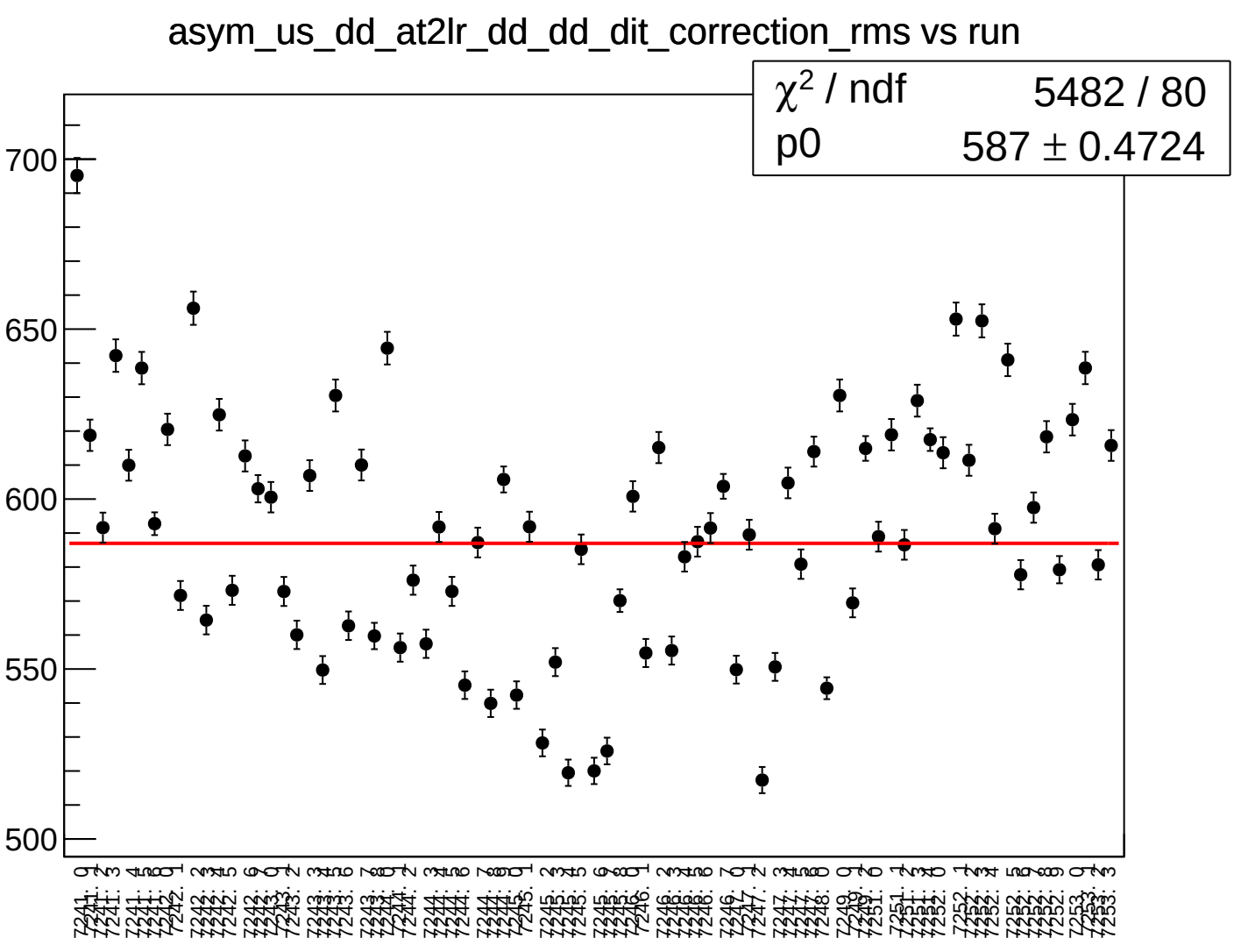

dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 74.98 / 80
p0 −651.2 ± 1686
60000
40000
20000
0
−20000
−40000
pull
Entries 81
Mean 11.76
Std Dev 75.19
3
2
1
0
−1
−2

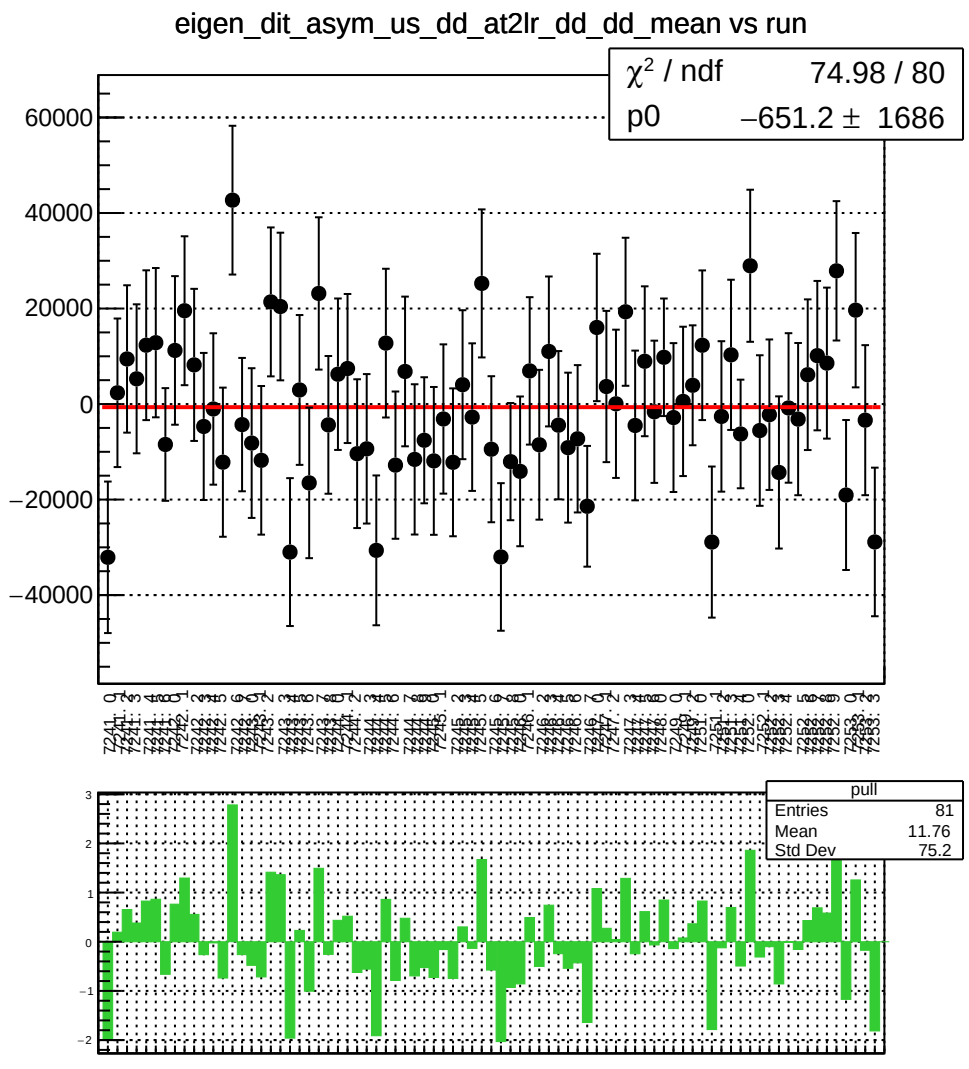

pull1D
Entries 81
Mean 0.009806
Std Dev 0.9621
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

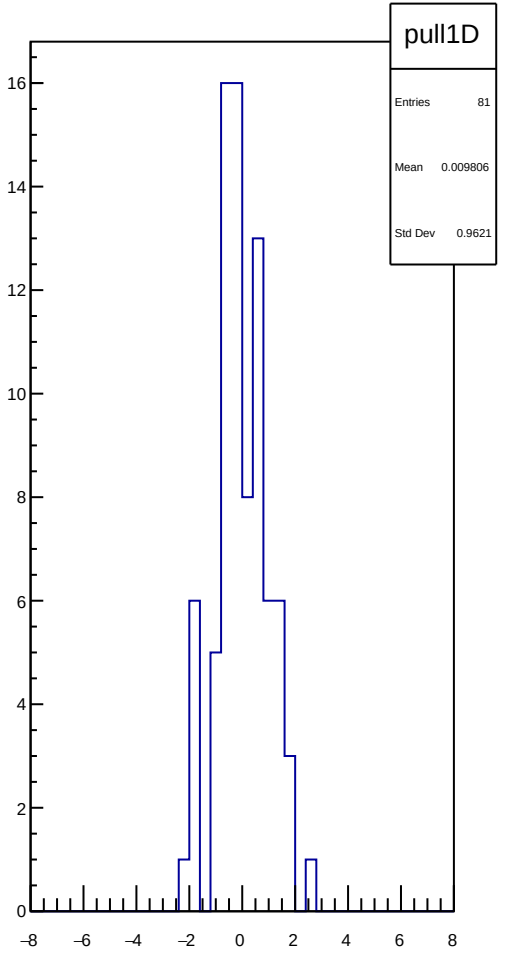

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ^2 / ndf 143.1 / 80
p0 1484 ± 1.192
1540
1520
1500
1480
1460
1440

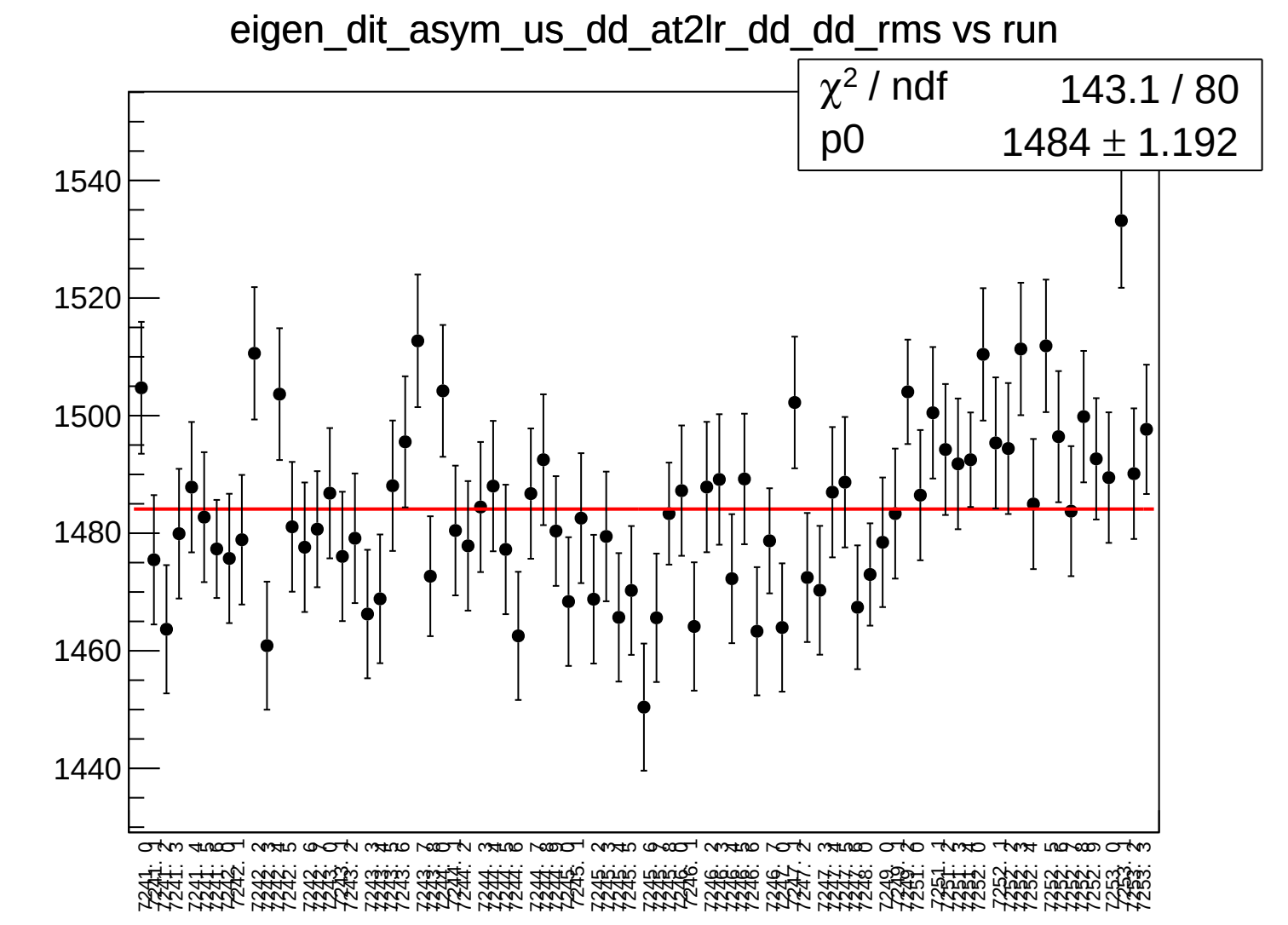

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 93.84 / 80
p0 165.9 ± 668.1
pull
Entries 81
Mean −154.3
Std Dev 0

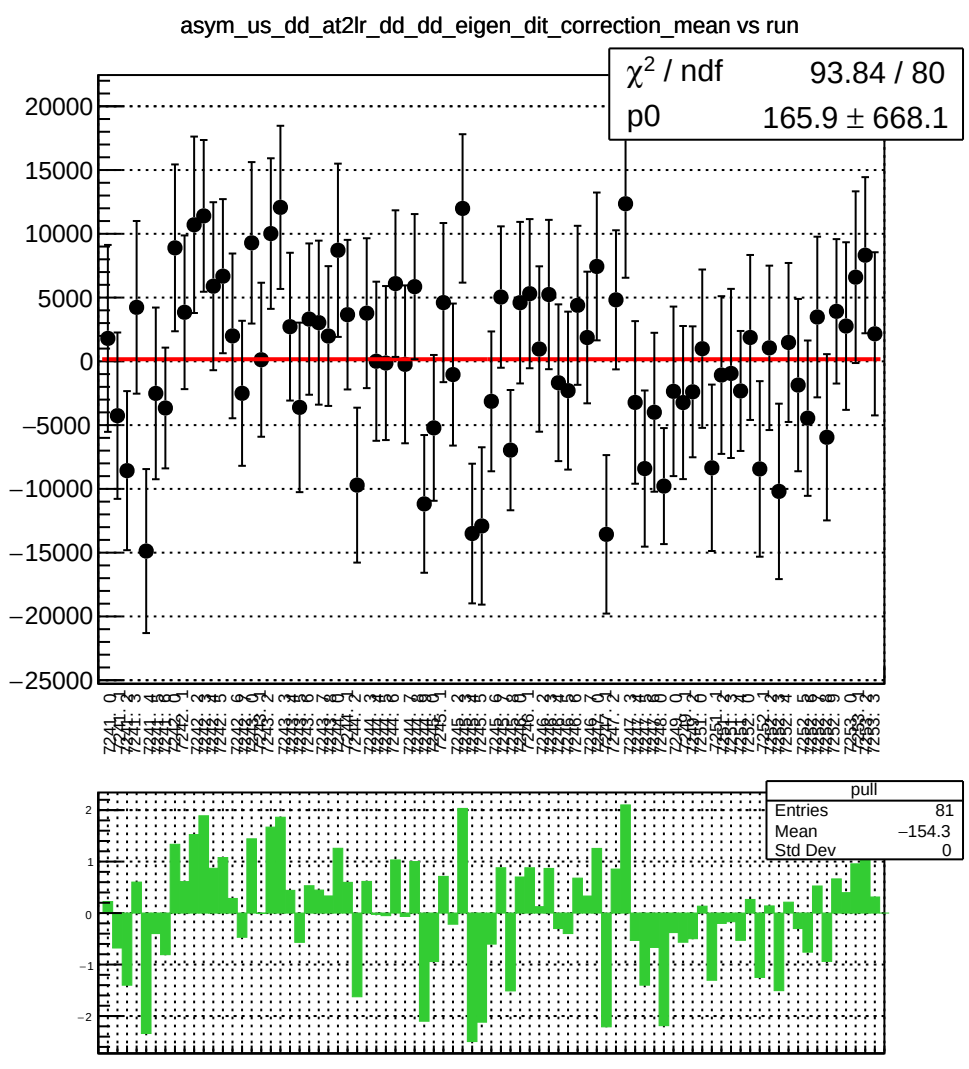

pull1D
Entries 81
Mean 0.01807
Std Dev 1.076

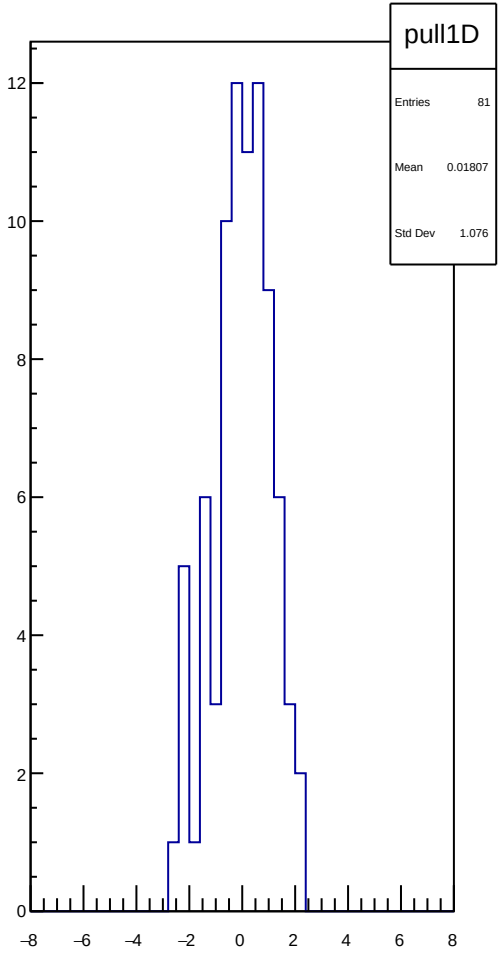

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 5482 / 80
p0 587 ± 0.4724
700
650
600
550
500

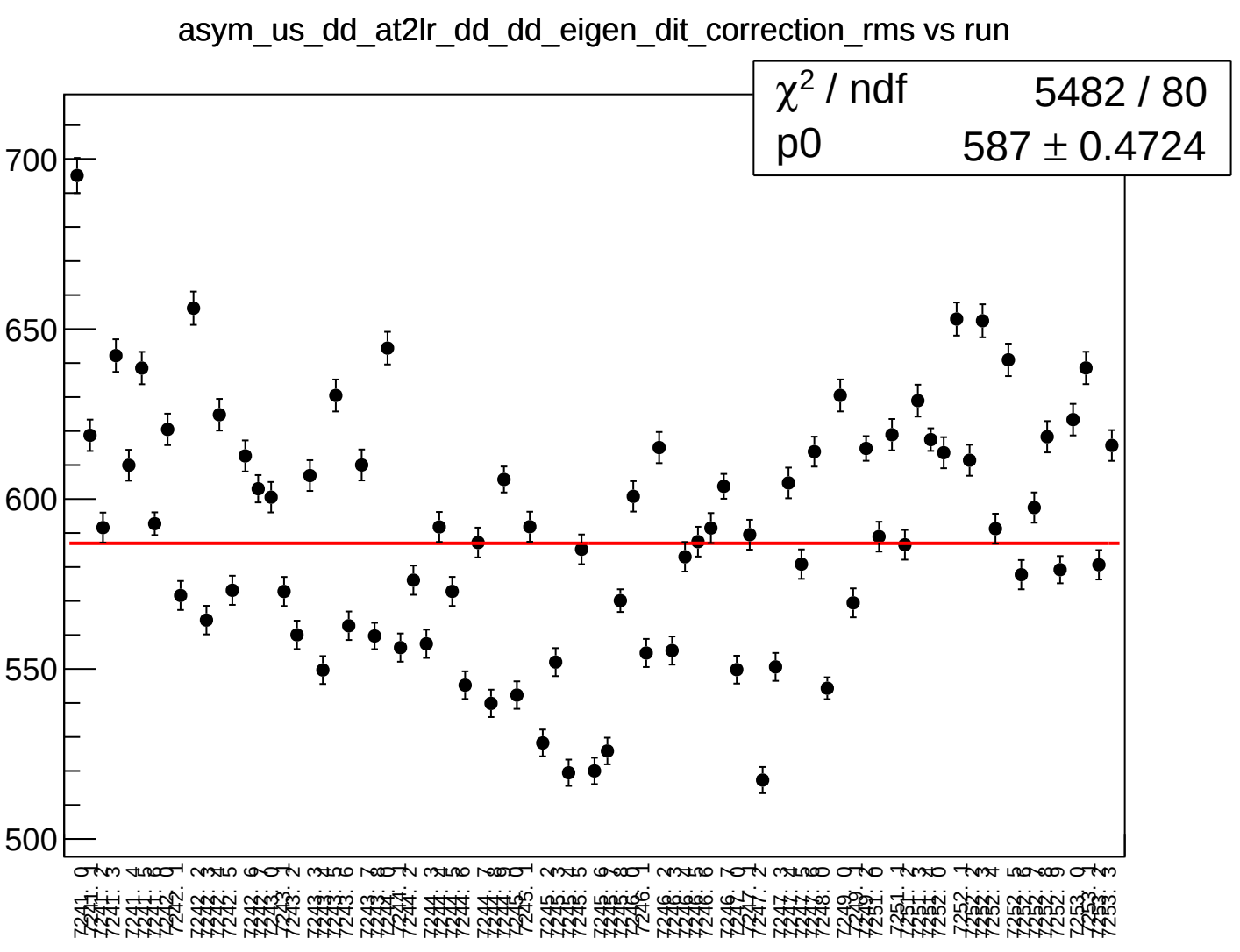

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 74.98 / 80
p0 −651.2 ± 1686
60000
40000
20000
0
−20000
−40000
pull
Entries 81
Mean 11.76
Std Dev 75.2
3
2
1
0
−1
−2

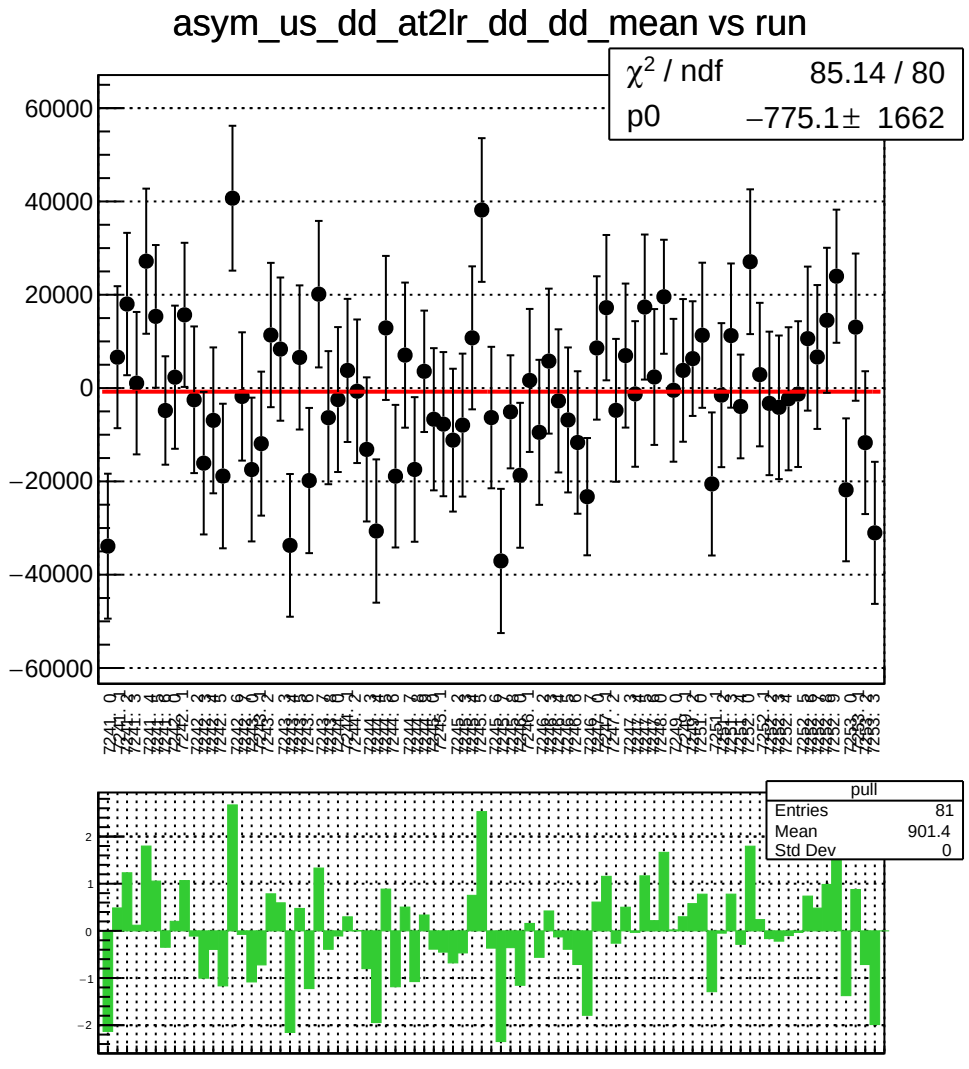

pull1D
Entries 81
Mean 0.009806
Std Dev 0.9621
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

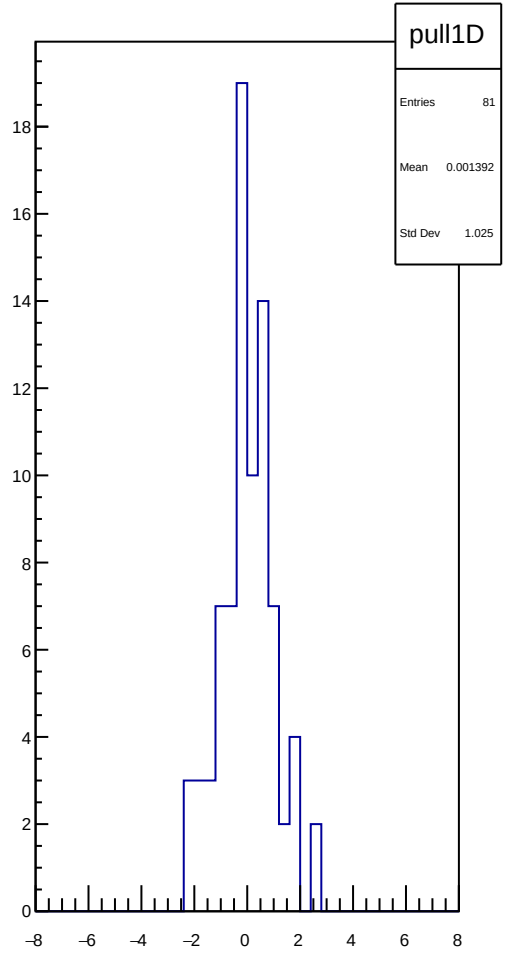

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 143.1 / 80
p0 1484 ± 1.192
1540
1520
1500
1480
1460
1440

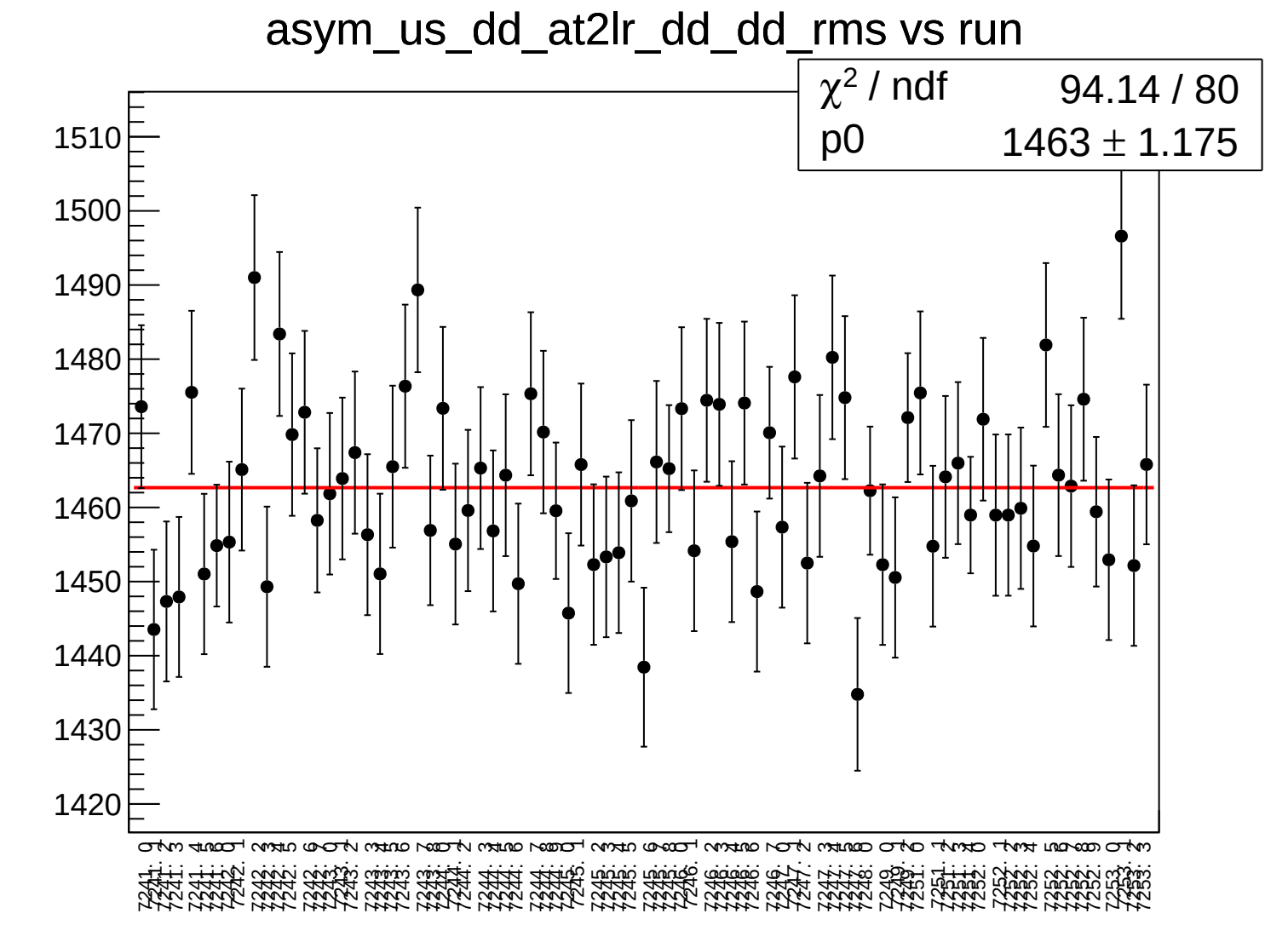

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 93.84 / 80
p0 165.9 ± 668.1
pull
Entries 81
Mean −154.3
Std Dev 0

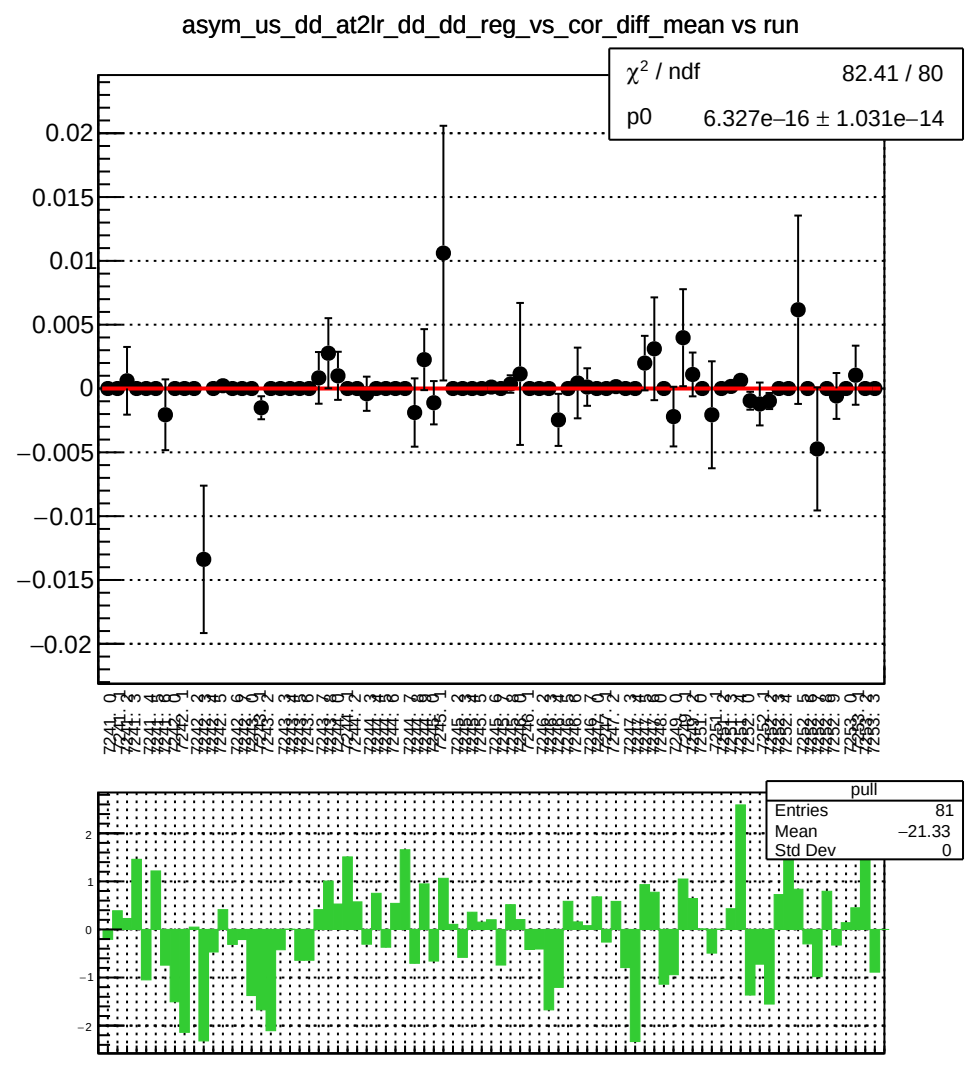

pull1D
Entries 81
Mean 0.01807
Std Dev 1.076

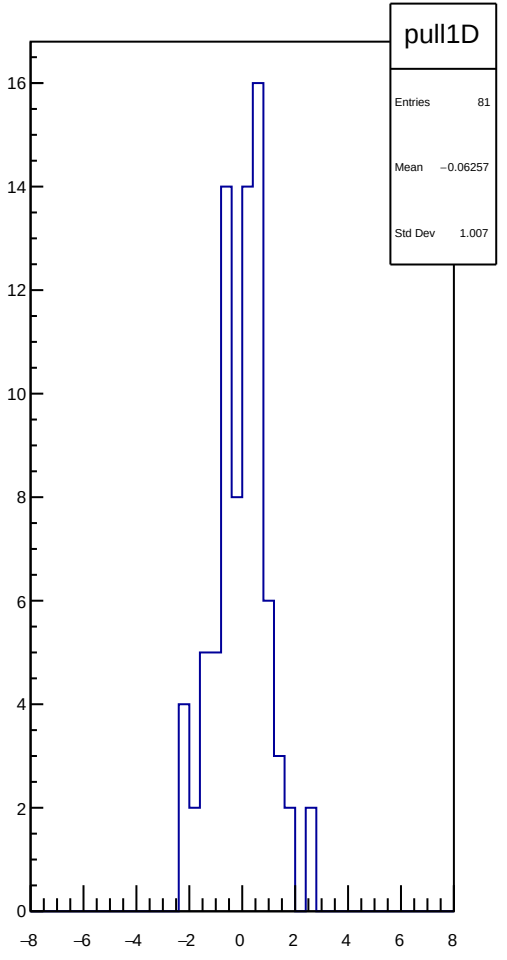

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 5482 / 80
p0 587 ± 0.4724
700
650
600
550
500

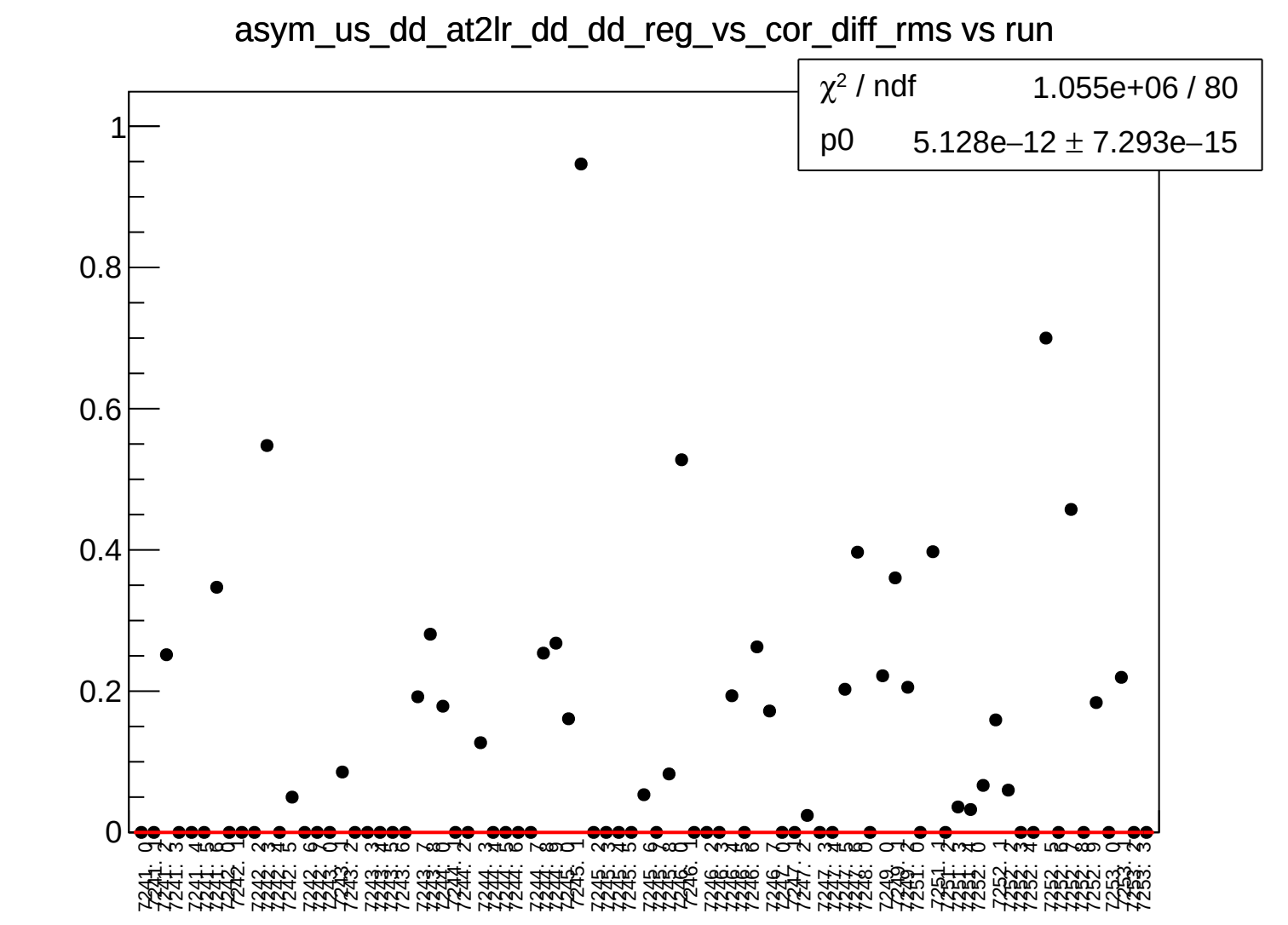

asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 85.14 / 80
p0 −775.1± 1662
pull
Entries 81
Mean 901.4
Std Dev 0

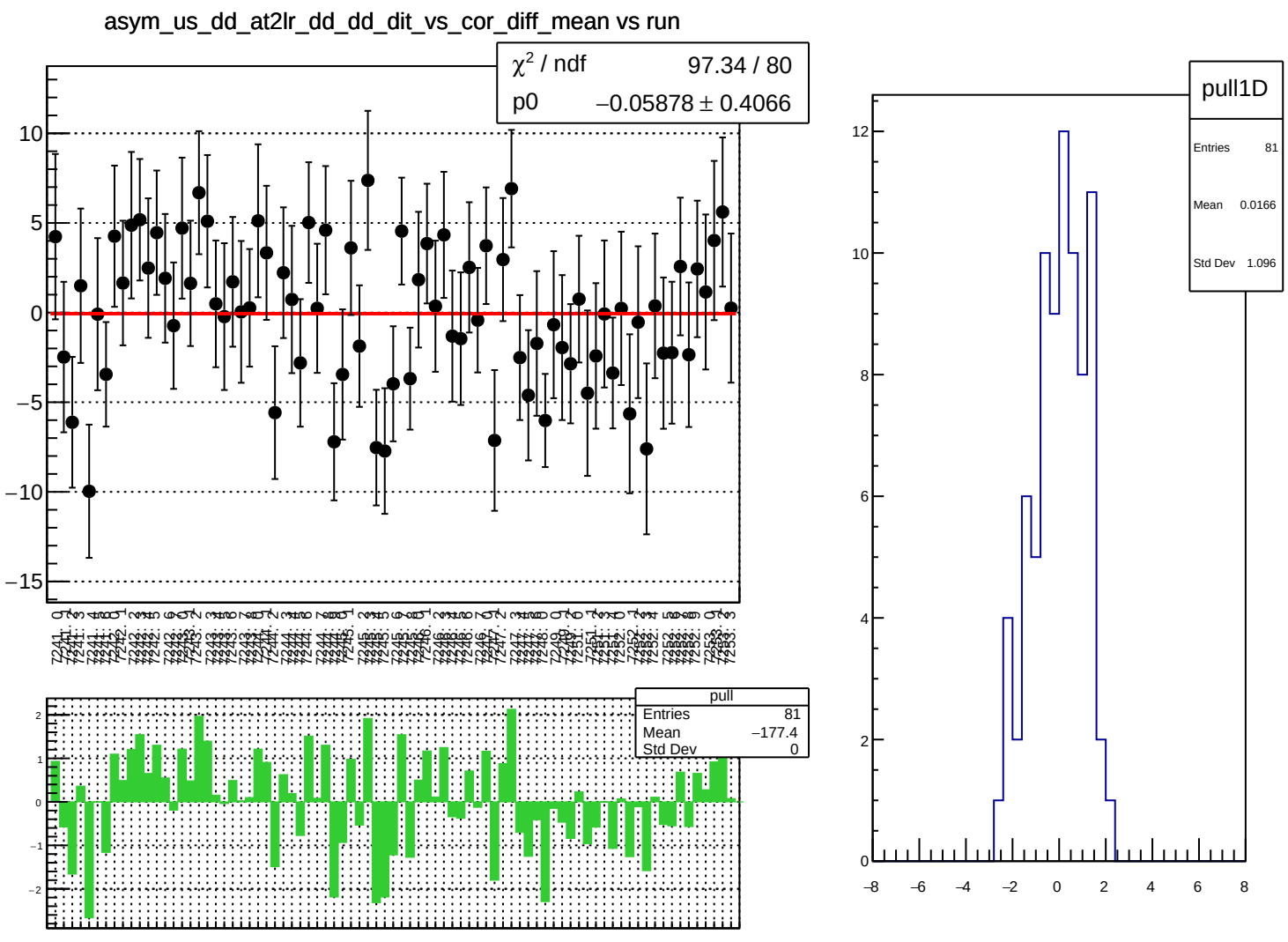

pull1D
Entries 81
Mean 0.001392
Std Dev 1.025

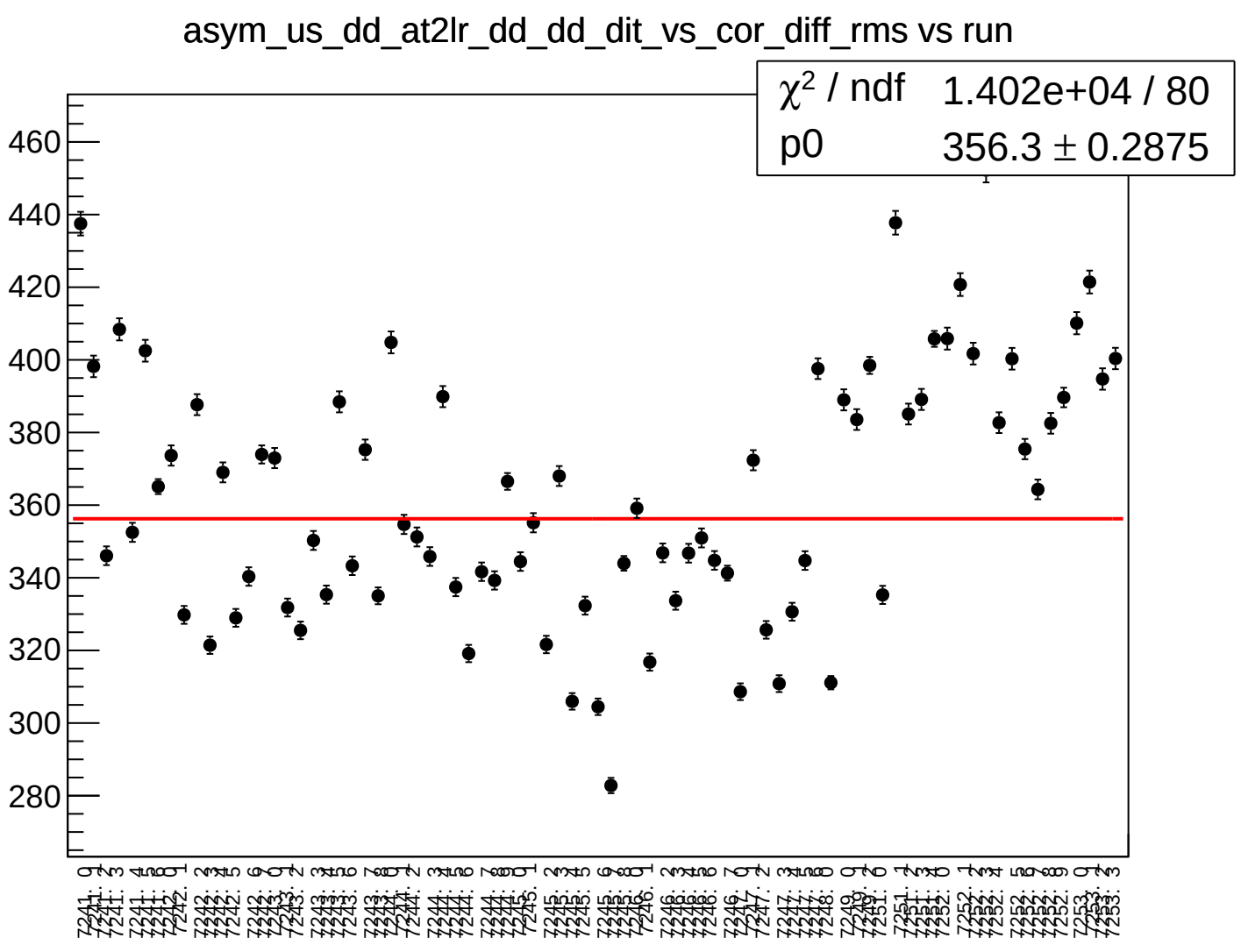

asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 94.14 / 80
p0 1463 ± 1.175
1510
1500
1490
1480
1470
1460
1450
1440
1430
1420

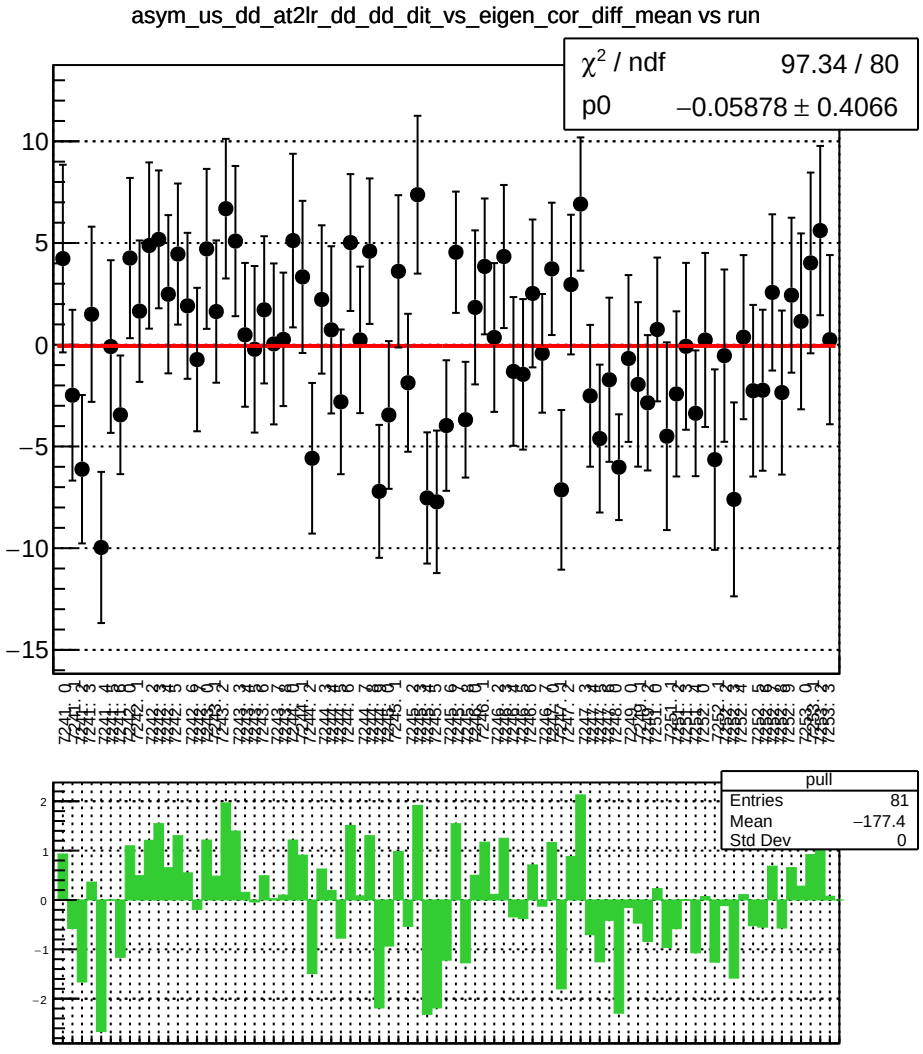

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 82.41 / 80
p0 6.327e−16 ± 1.031e−14
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 81
Mean −21.33
Std Dev 0
2
1
0
−1
−2

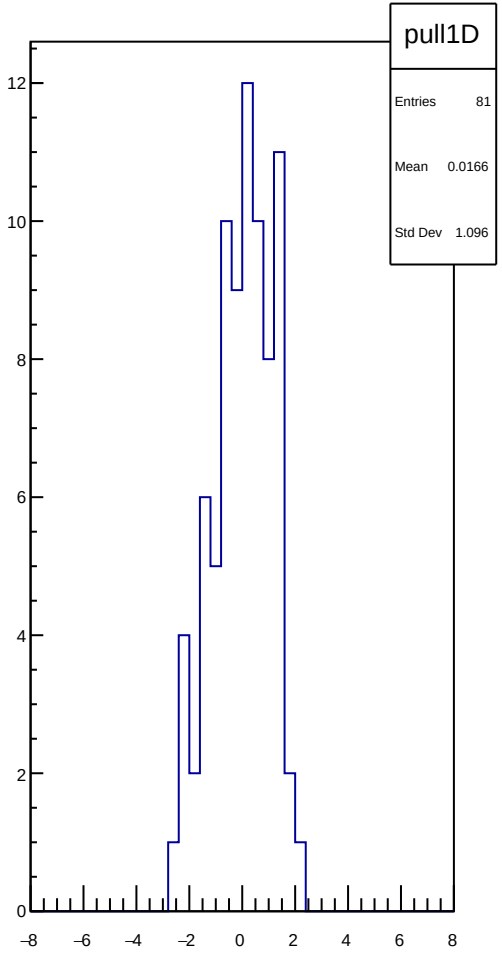

pull1D
Entries 81
Mean −0.06257
Std Dev 1.007
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

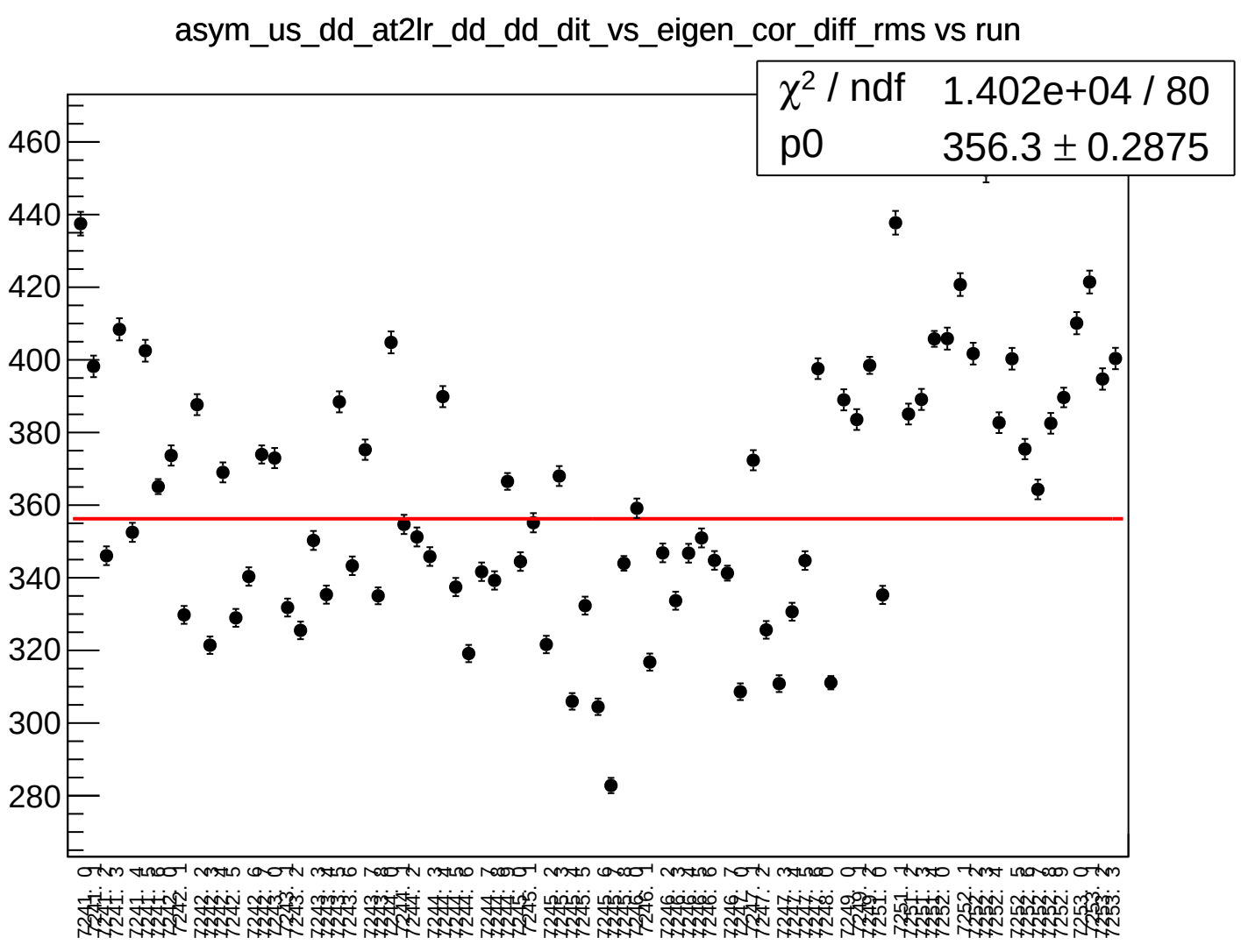

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.055e+06 / 80
p0 5.128e−12 ± 7.293e−15
1
0.8
0.6
0.4
0.2
0

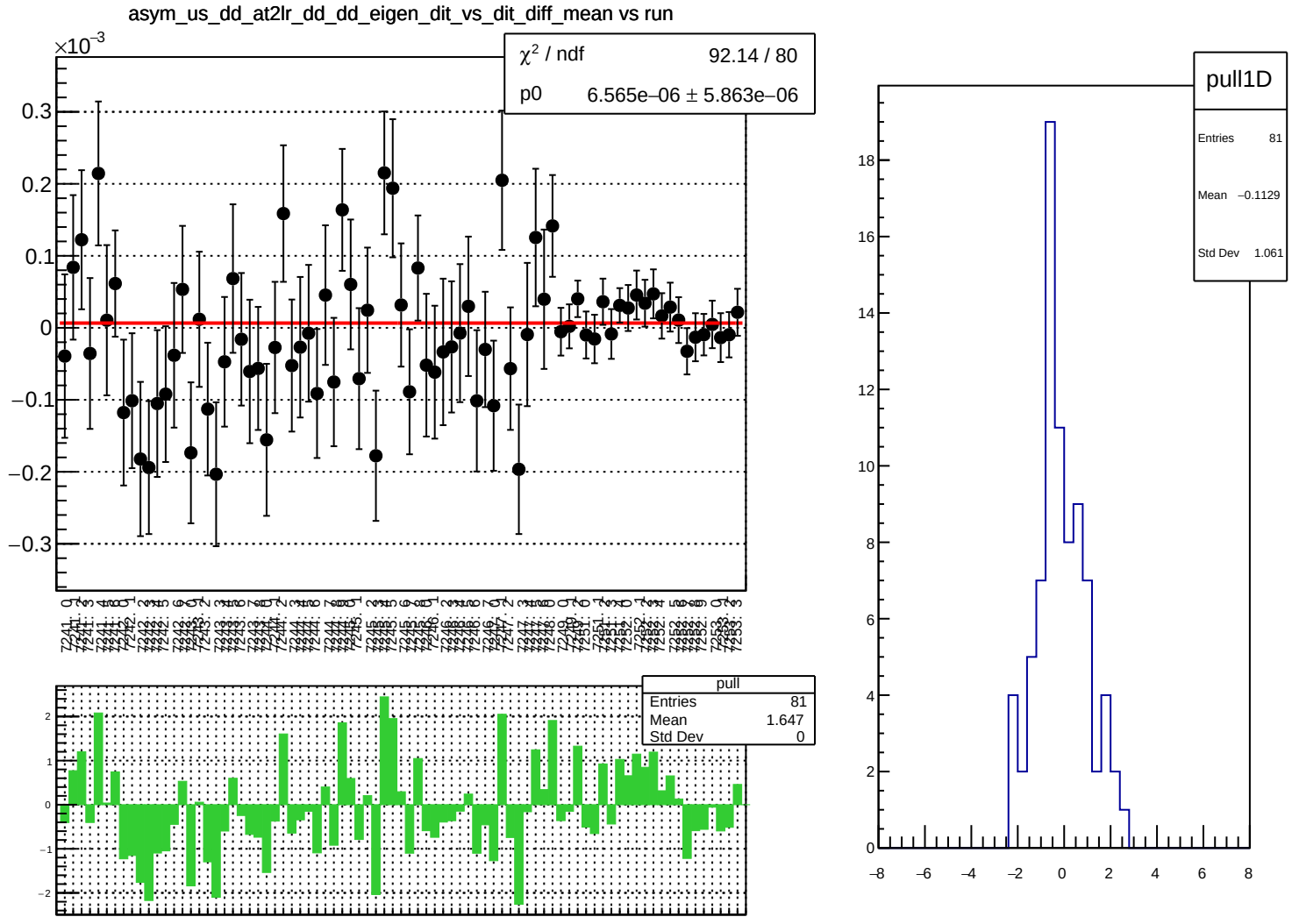

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 97.34 / 80
p0 −0.05878 ± 0.4066
pull
Entries 81
Mean −177.4
Std Dev 0
pull1D
Entries 81
Mean 0.0166
Std Dev 1.096

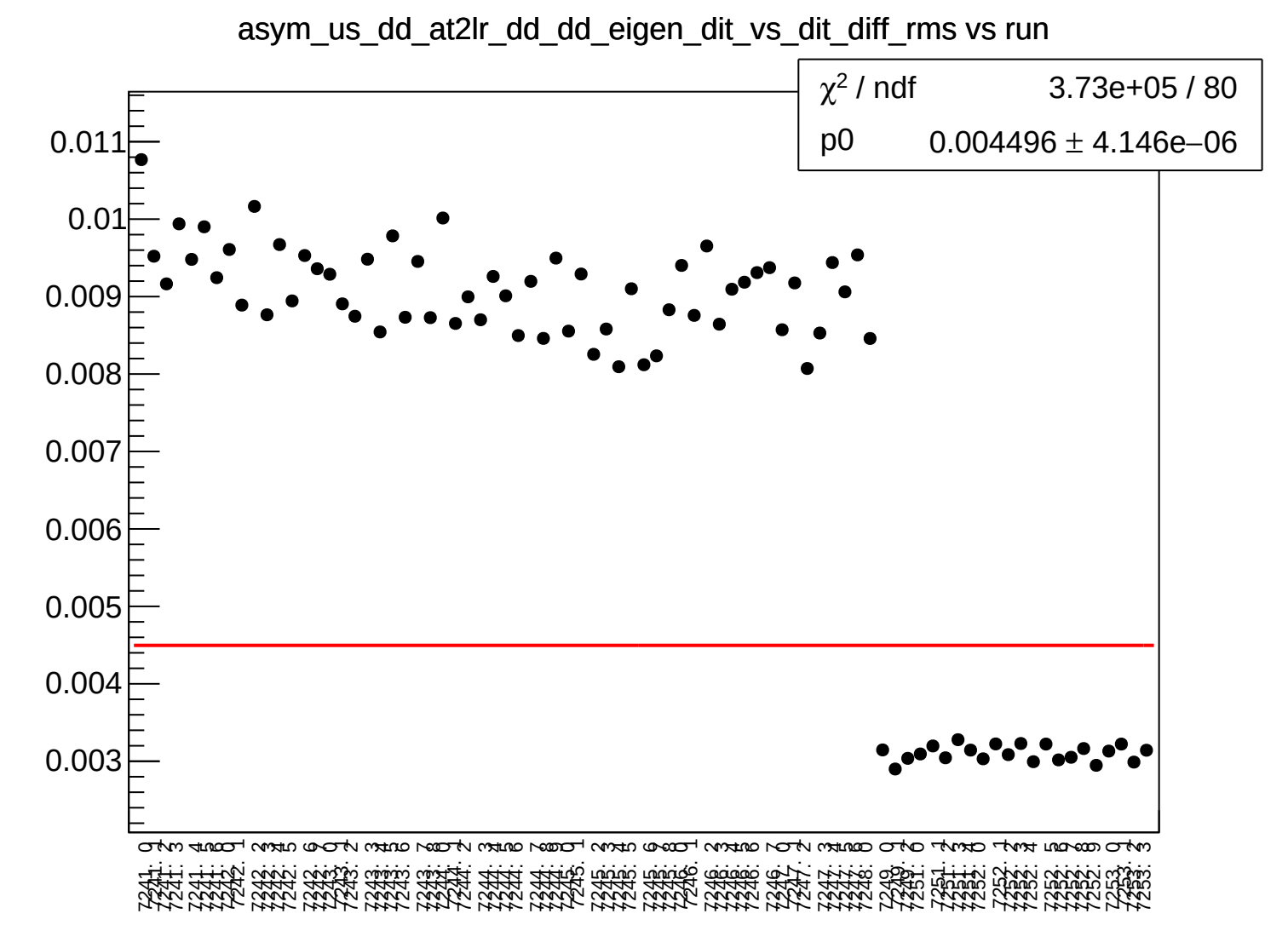

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.402e+04 / 80
p0 356.3 ± 0.2875
460
440
420
400
380
360
340
320
300
280

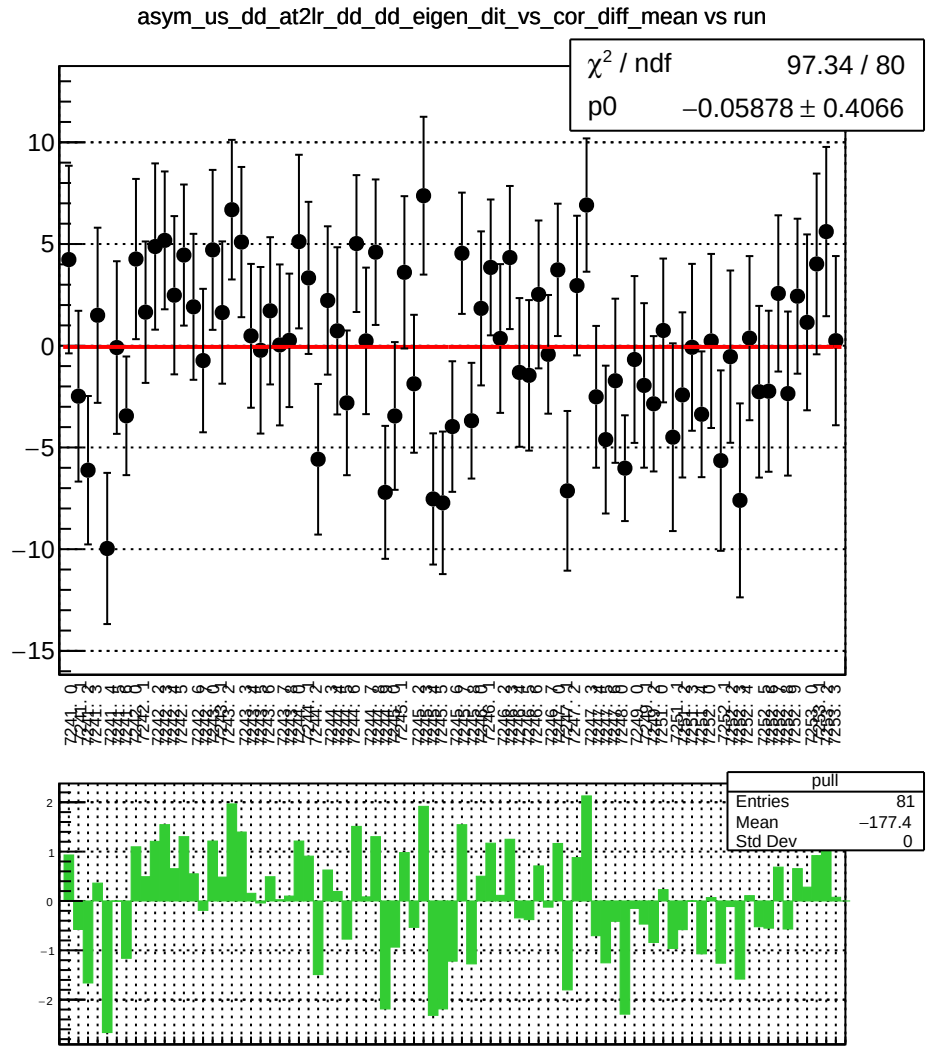

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.34 / 80
p0 −0.05878 ± 0.4066
pull
Entries 81
Mean −177.4
Std Dev 0

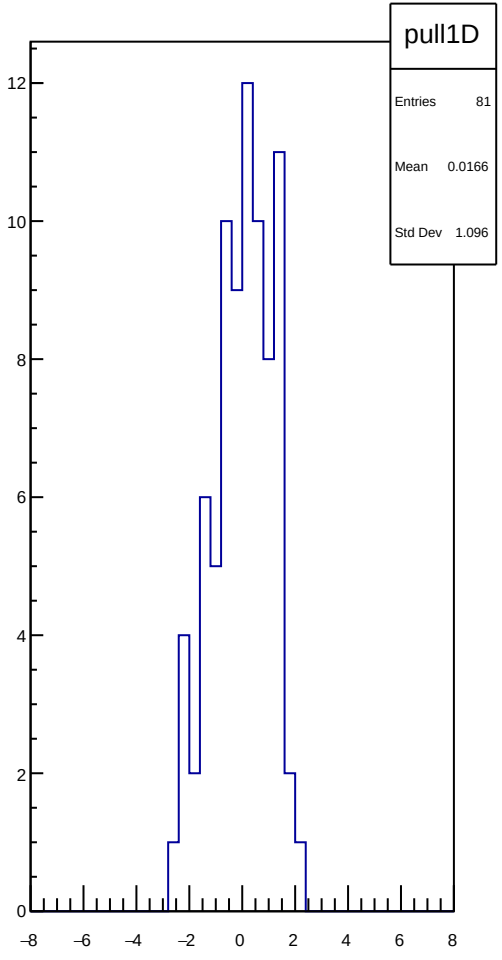

pull1D
Entries 81
Mean 0.0166
Std Dev 1.096

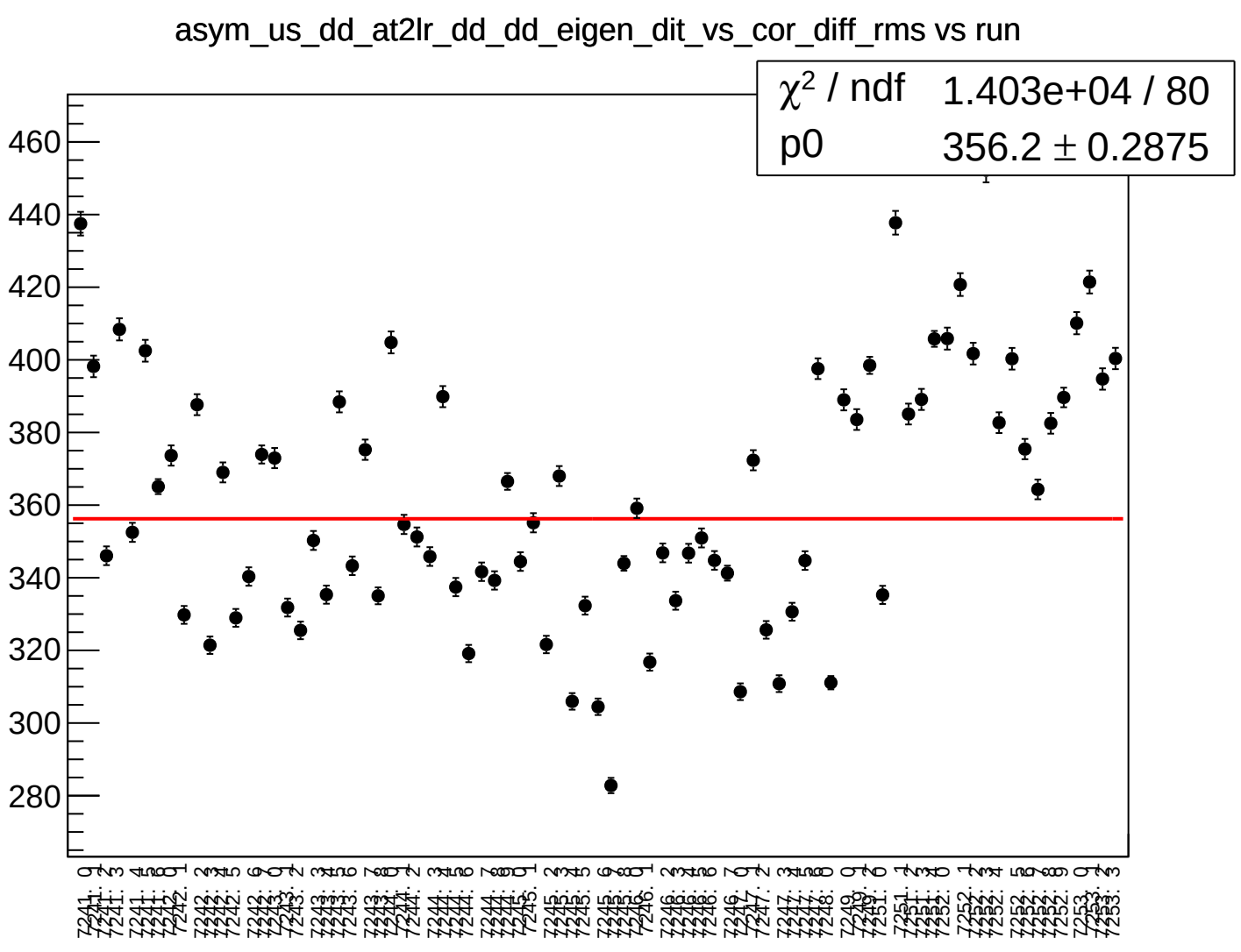

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.402e+04 / 80
p0 356.3 ± 0.2875
460
440
420
400
380
360
340
320
300
280

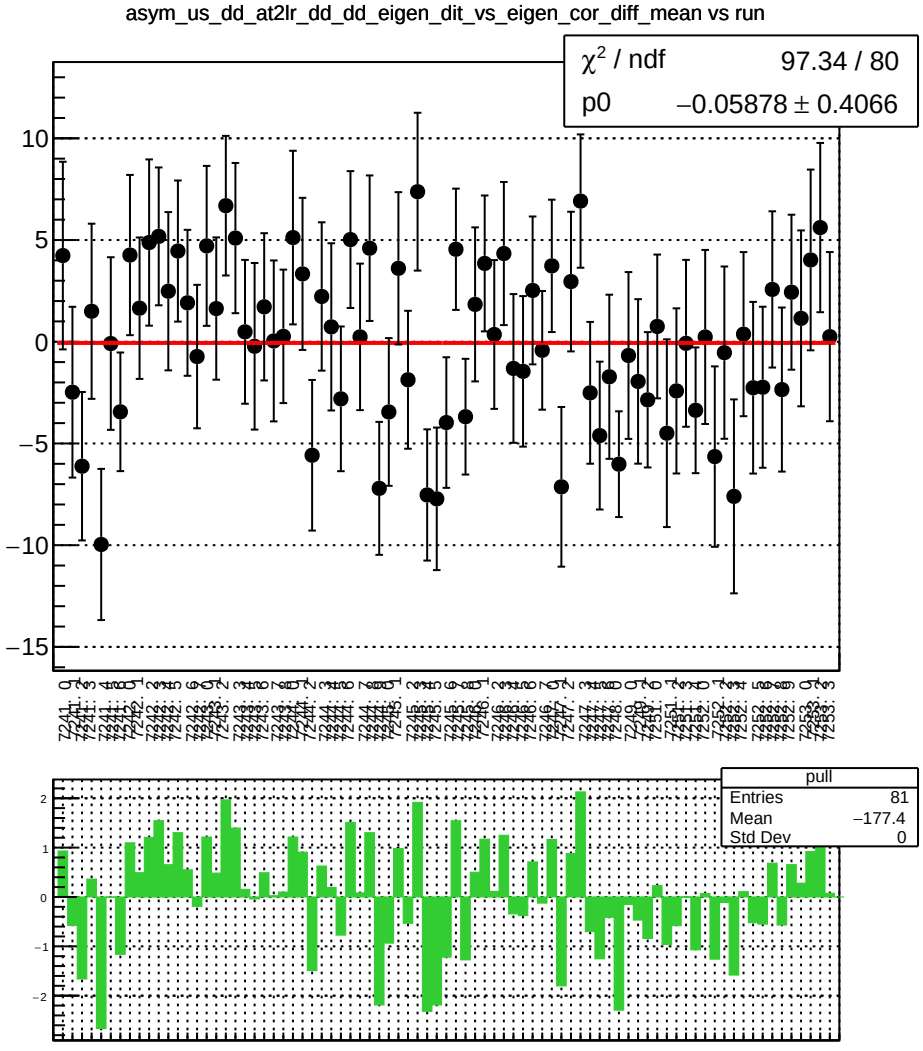

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.14 / 80
p0 6.565e−06 ± 5.863e−06
pull
Entries 81
Mean 1.647
Std Dev 0
pull1D
Entries 81
Mean −0.1129
Std Dev 1.061

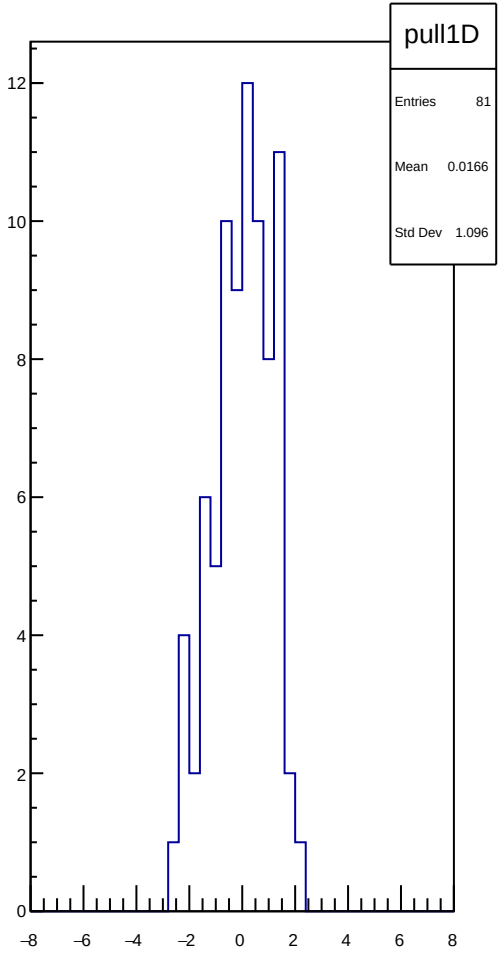

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.73e+05 / 80
p0 0.004496 ± 4.146e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

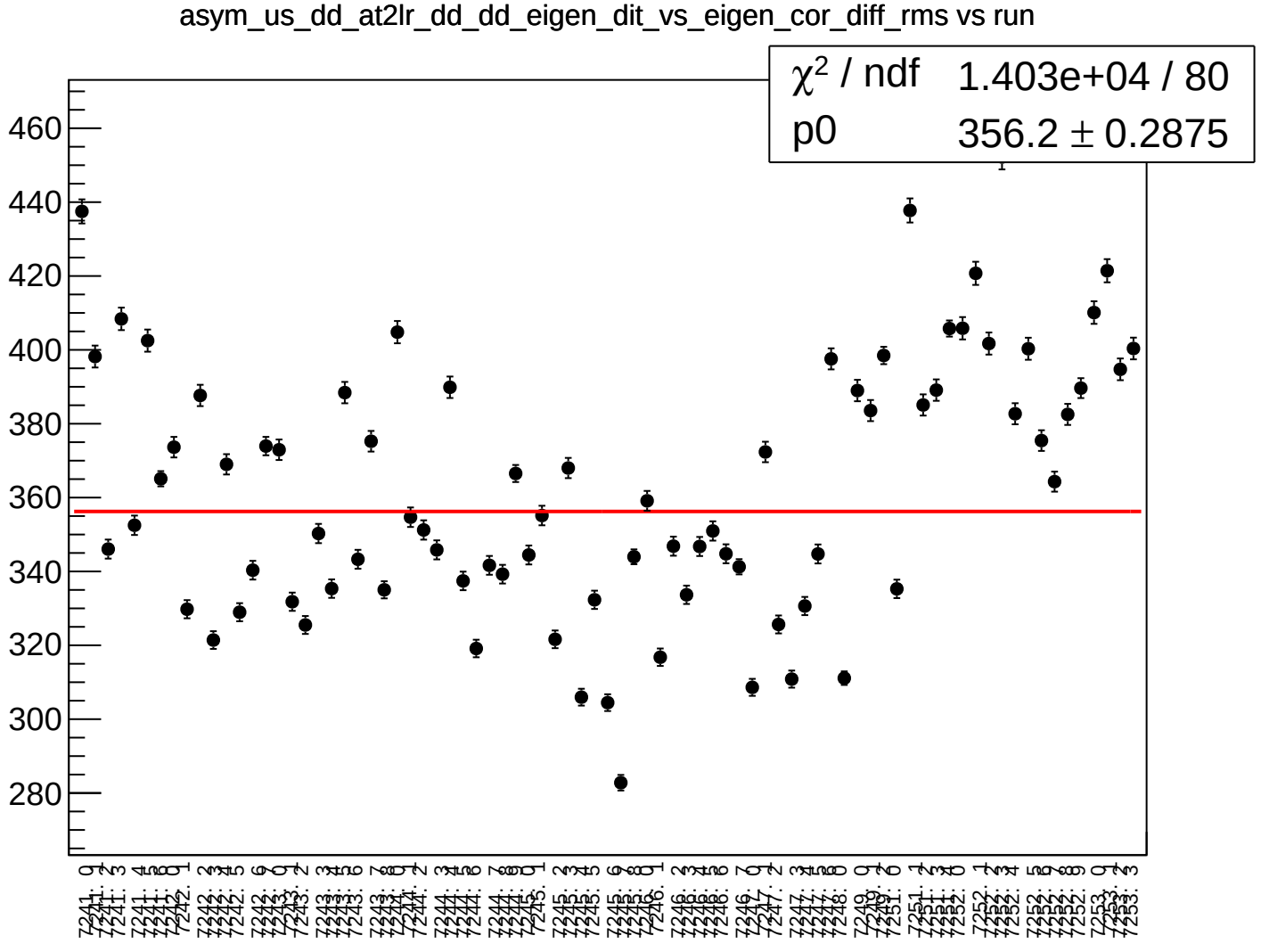

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.34 / 80
p0 −0.05878 ± 0.4066
pull
Entries 81
Mean −177.4
Std Dev 0

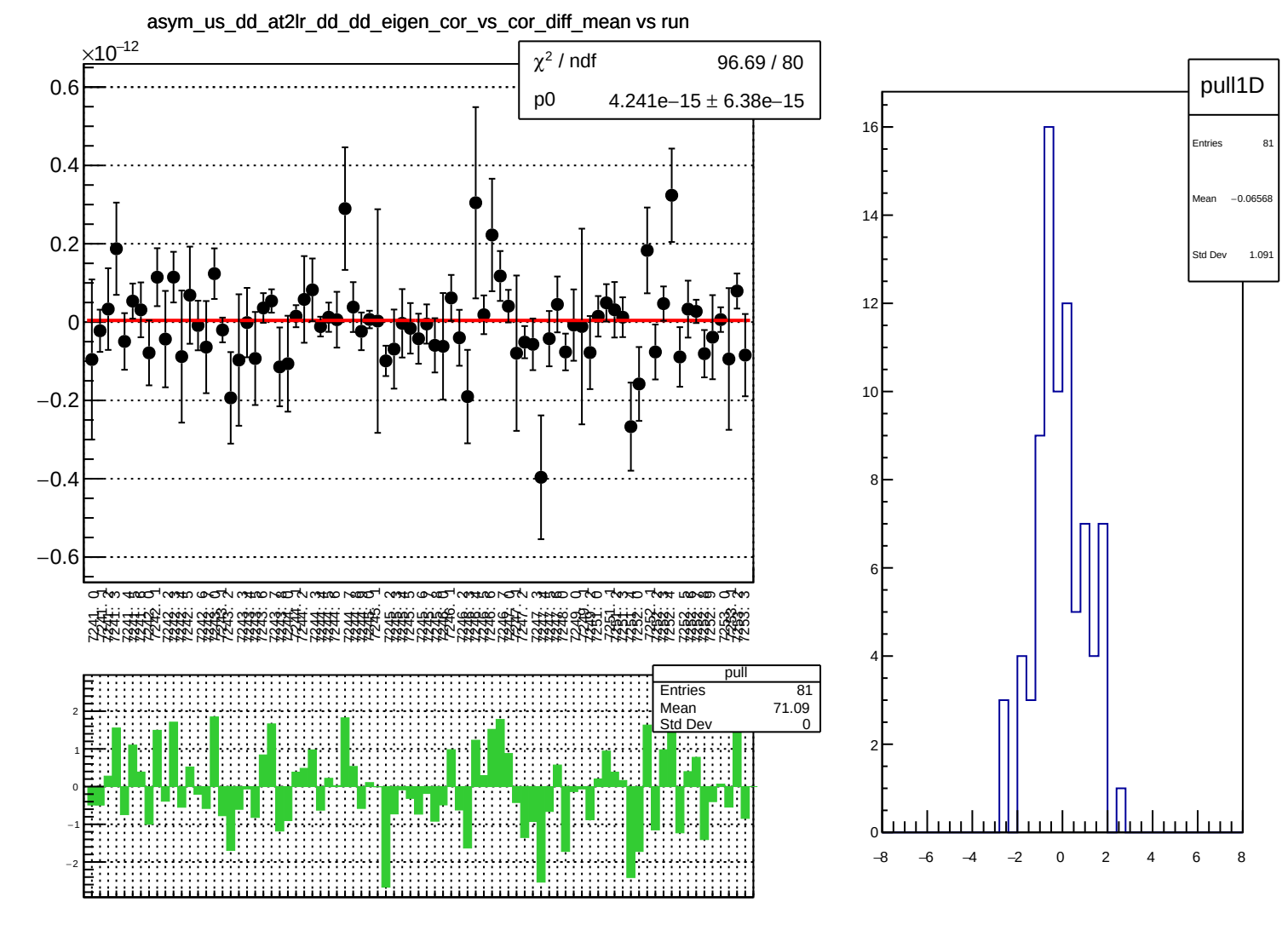

pull1D
Entries 81
Mean 0.0166
Std Dev 1.096

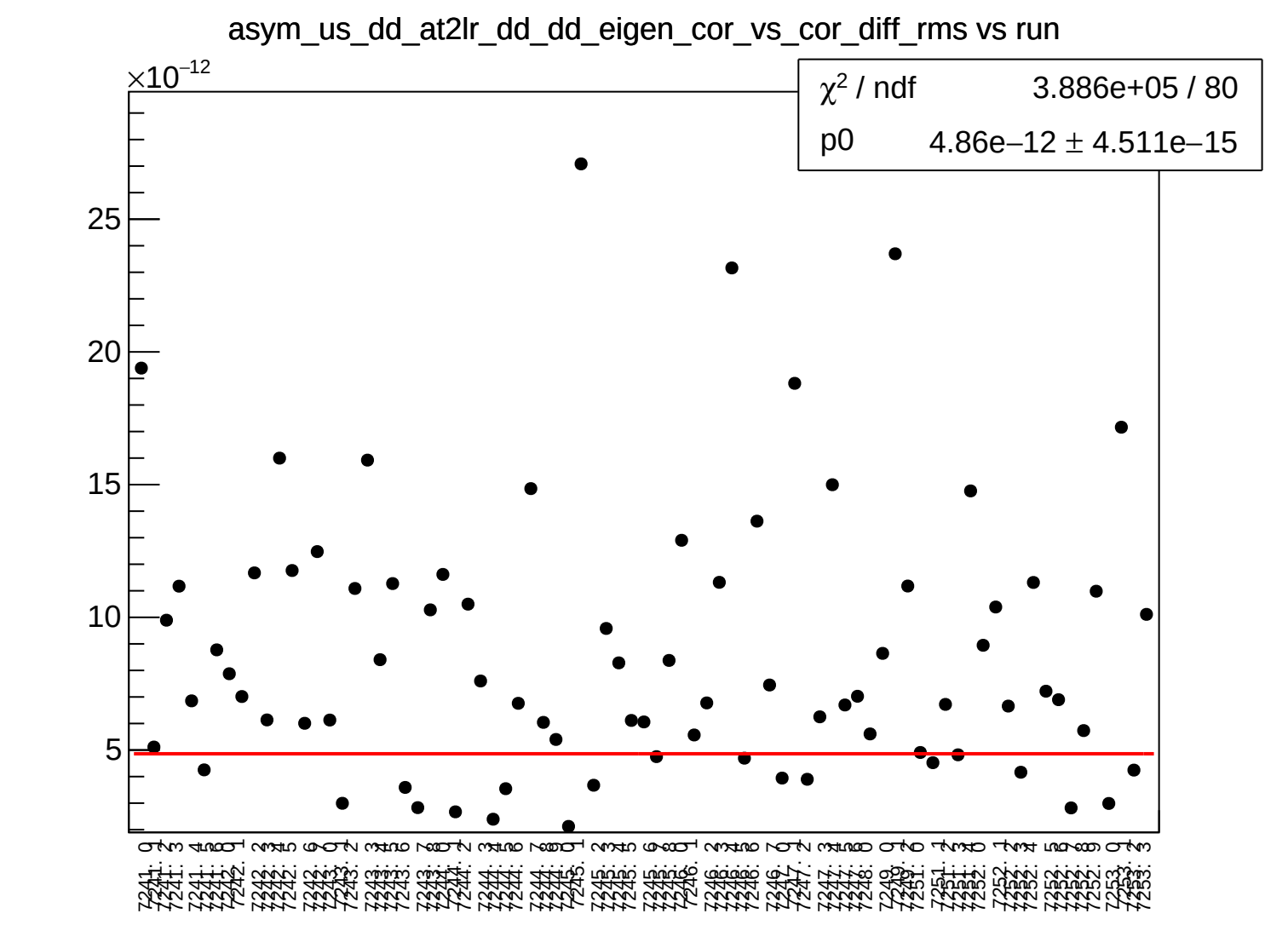

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.403e+04 / 80
p0 356.2 ± 0.2875
460
440
420
400
380
360
340
320
300
280

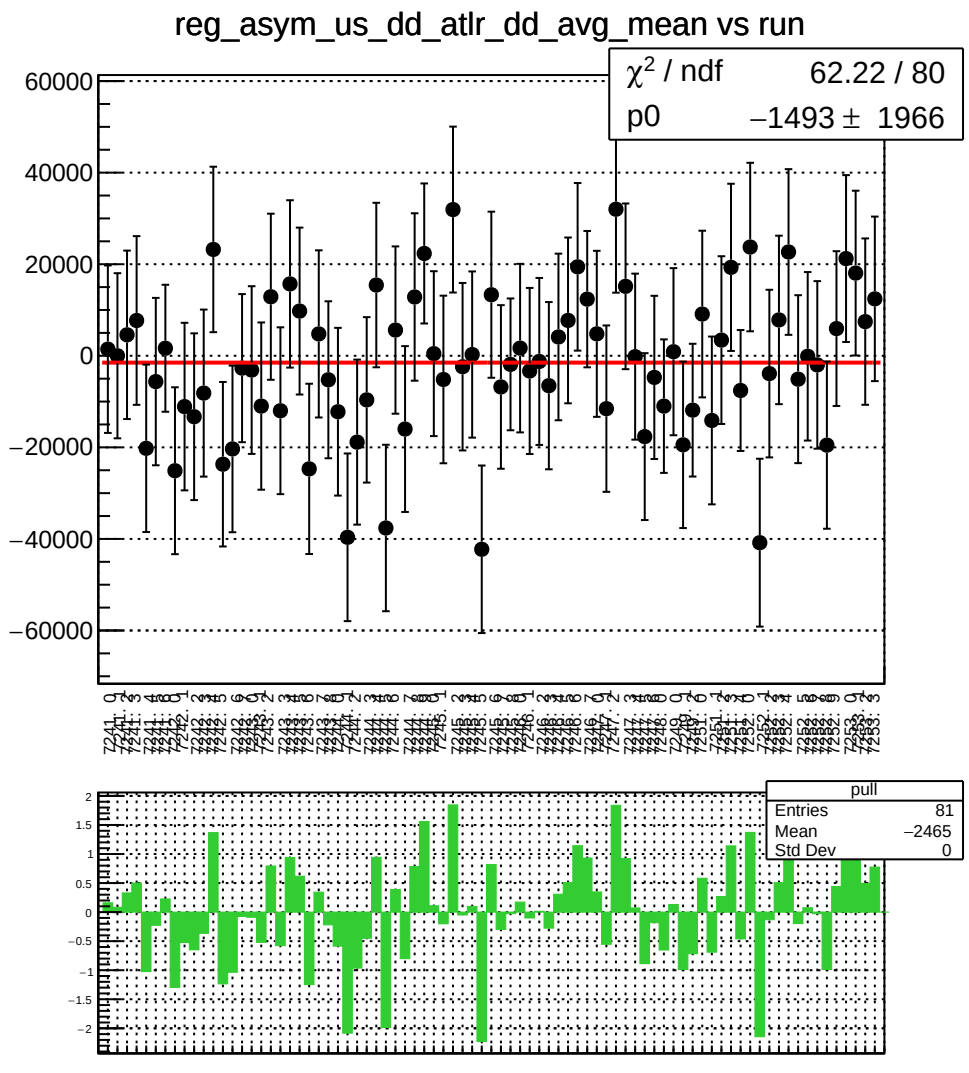

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.34 / 80
p0 −0.05878 ± 0.4066
pull
Entries 81
Mean −177.4
Std Dev 0

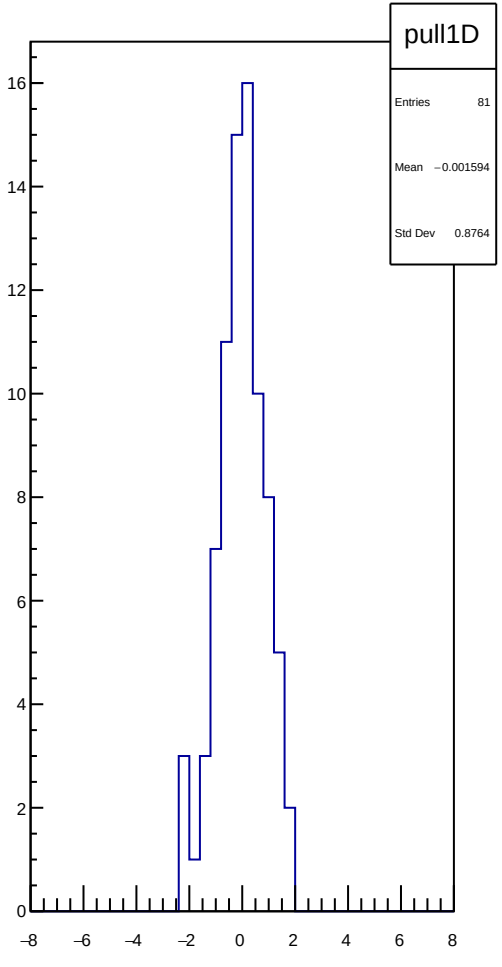

pull1D
Entries 81
Mean 0.0166
Std Dev 1.096

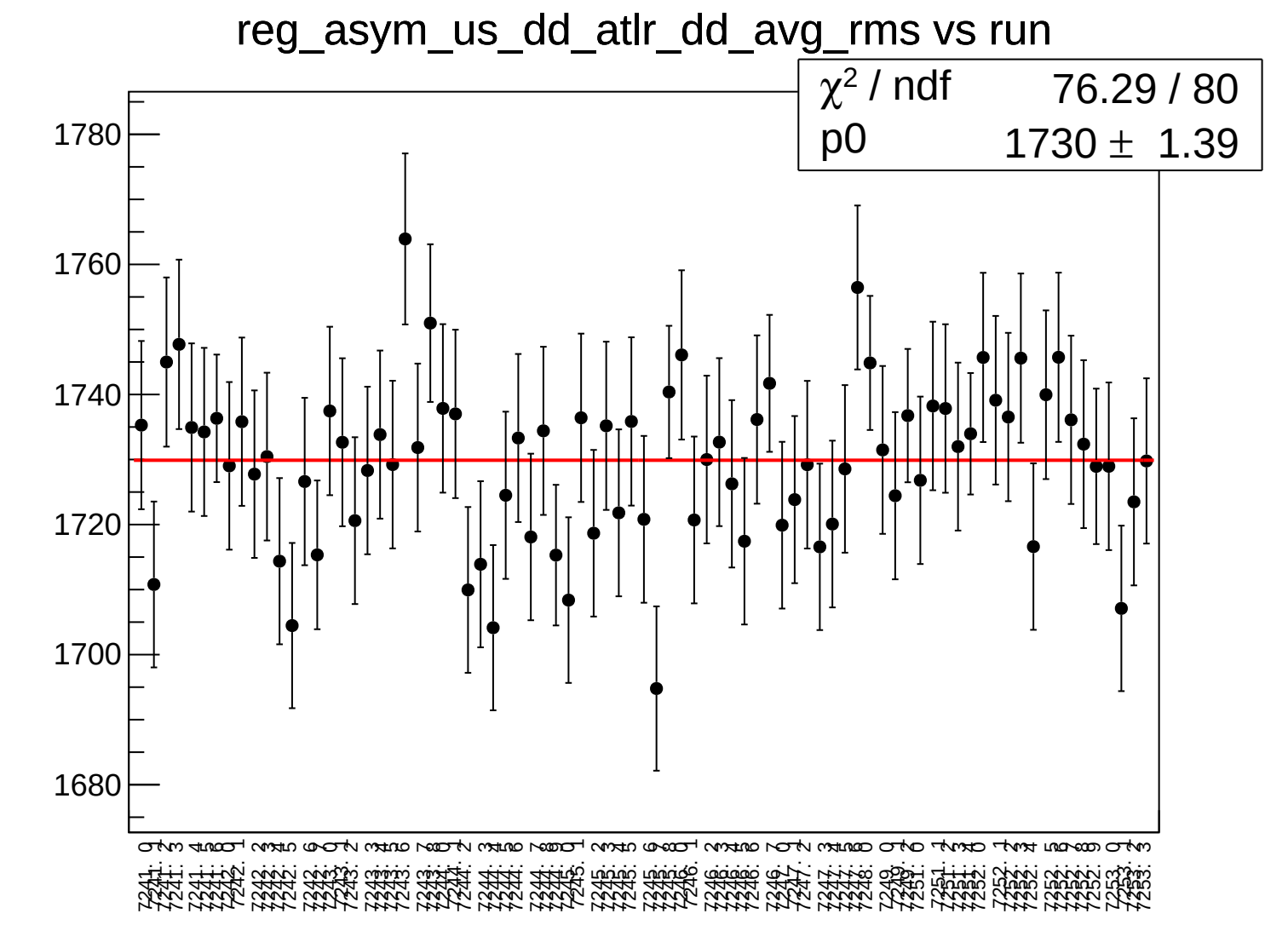

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.403e+04 / 80
p0 356.2 ± 0.2875
460
440
420
400
380
360
340
320
300
280

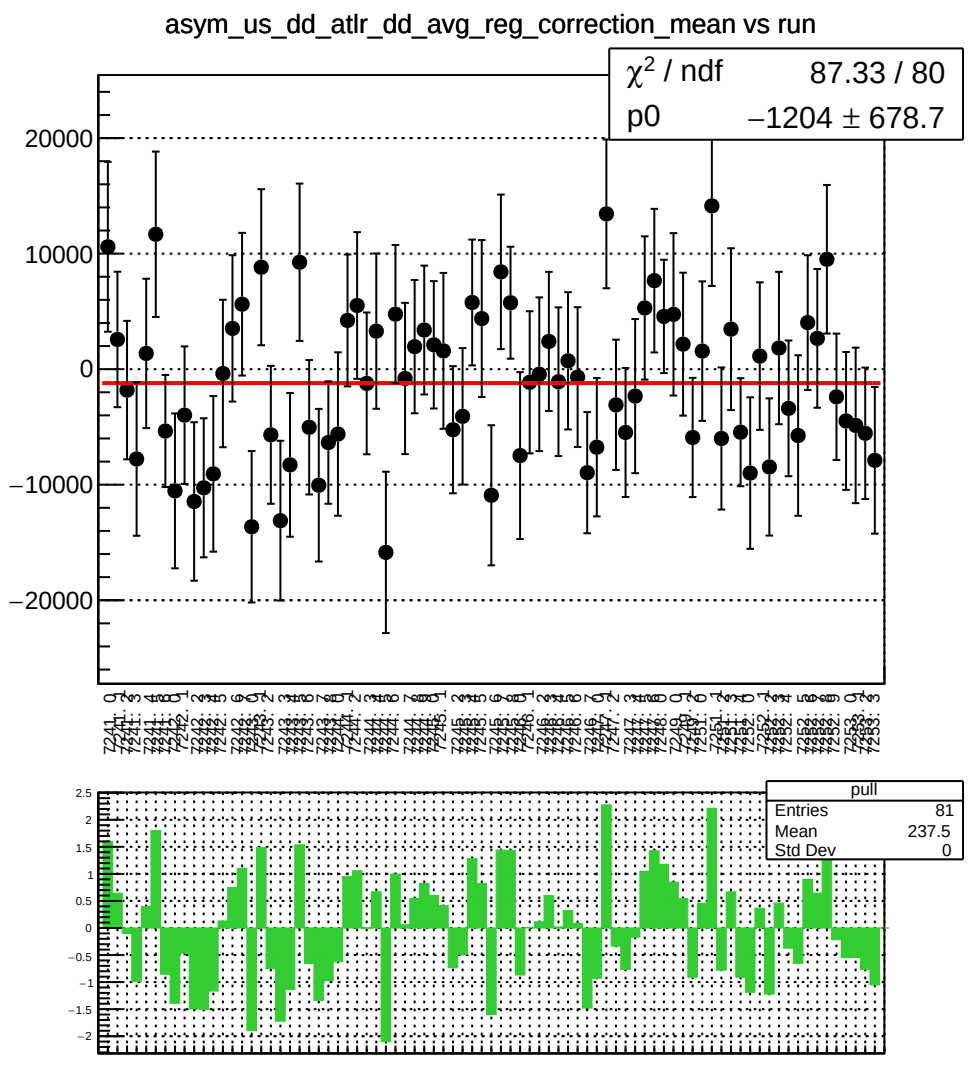

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.69 / 80
p0 4.241e−15 ± 6.38e−15
pull
Entries 81
Mean 71.09
Std Dev 0
pull1D
Entries 81
Mean −0.06568
Std Dev 1.091

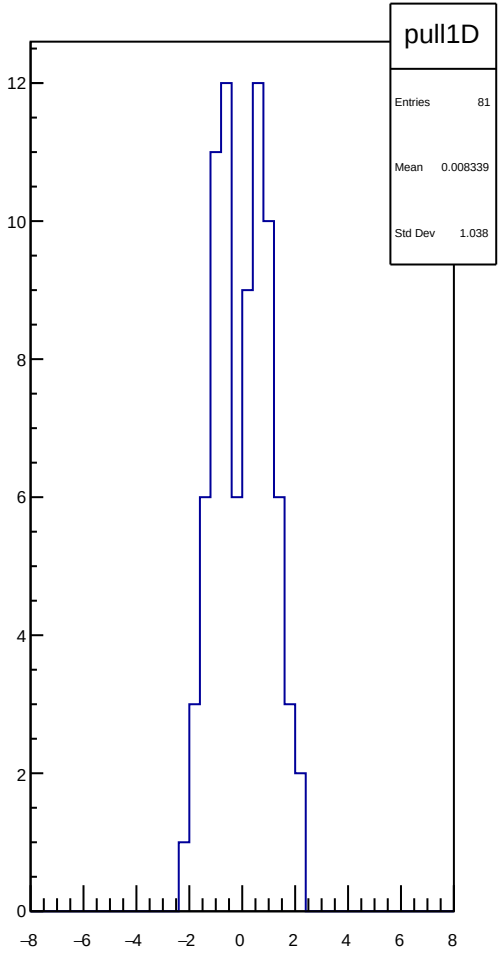

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.886e+05 / 80
p0 4.86e−12 ± 4.511e−15
25
20
15
10
5

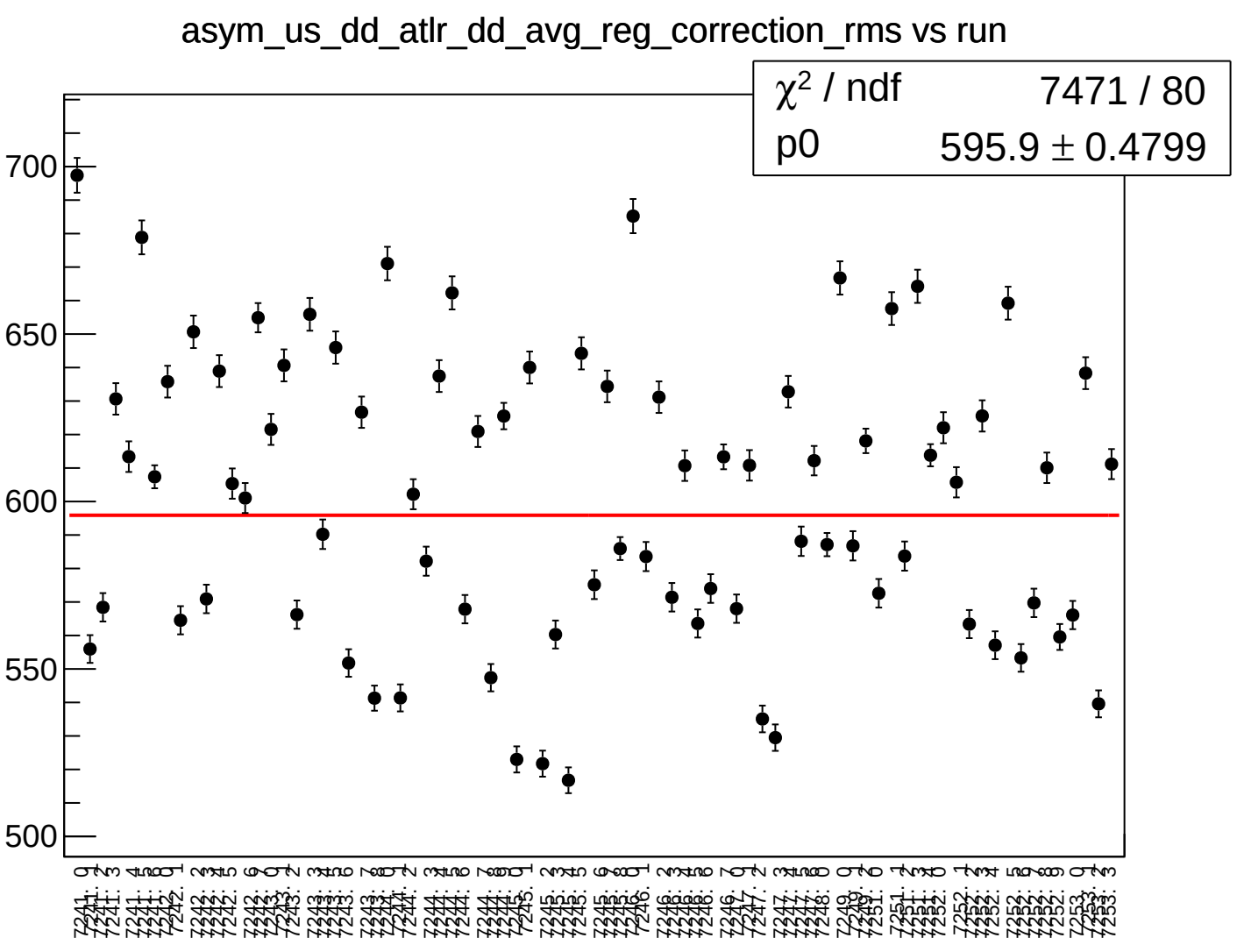

reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 62.22 / 80
p0 −1493 ± 1966
pull
Entries 81
Mean −2465
Std Dev 0

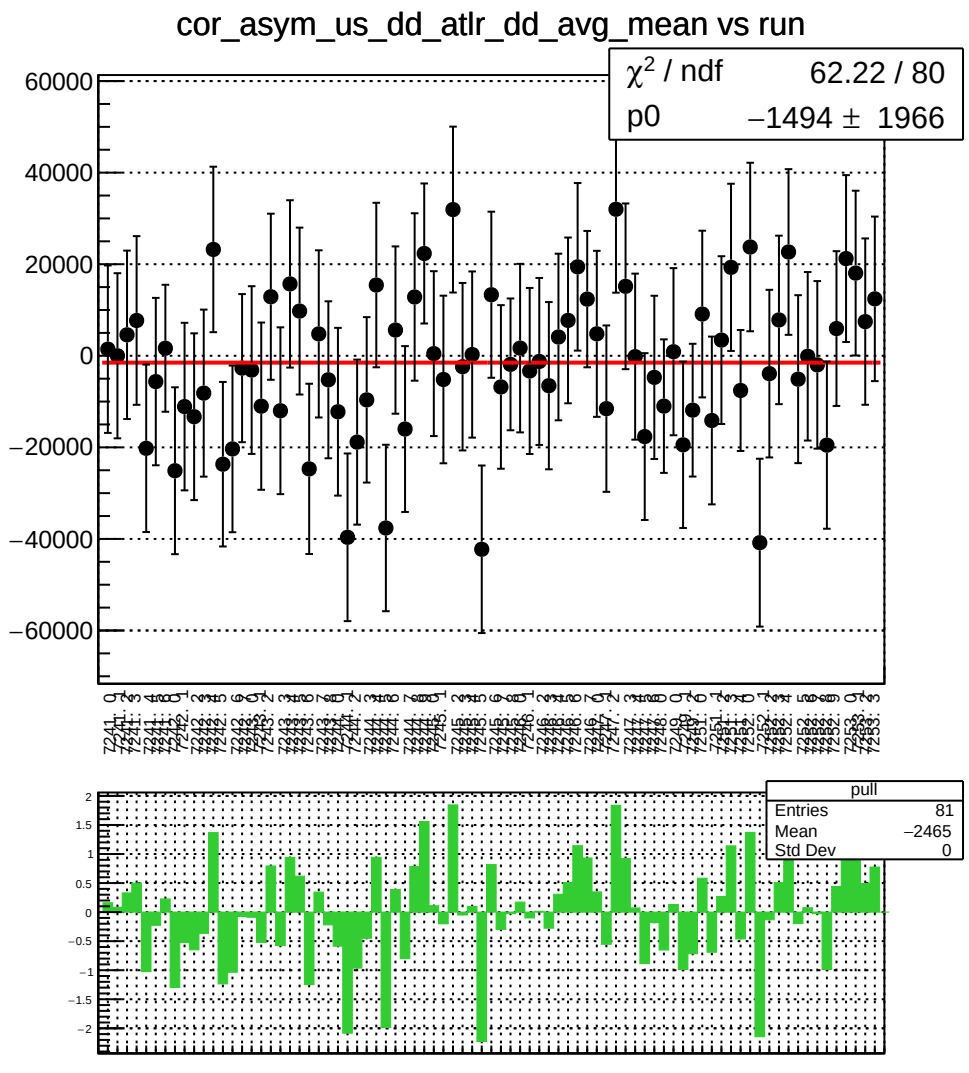

pull1D
Entries 81
Mean −0.001594
Std Dev 0.8764

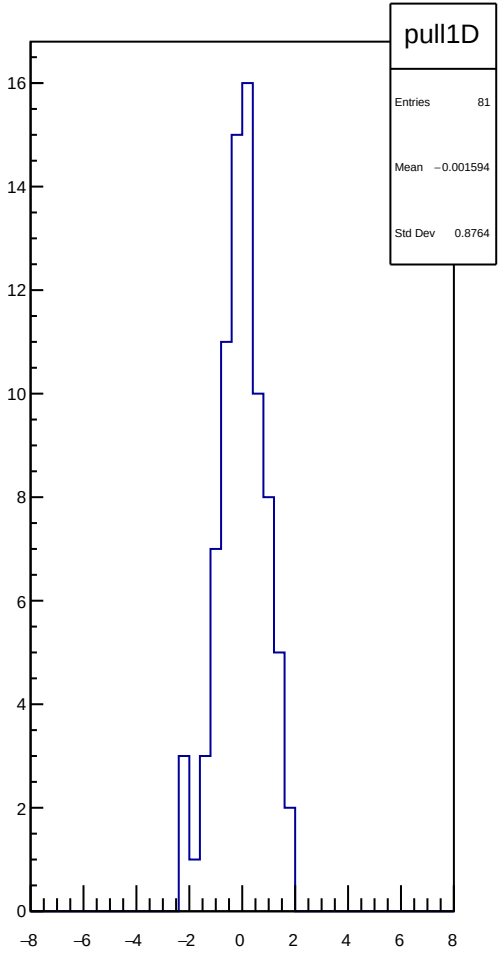

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 76.29 / 80
p0 1730 ± 1.39
1780
1760
1740
1720
1700
1680

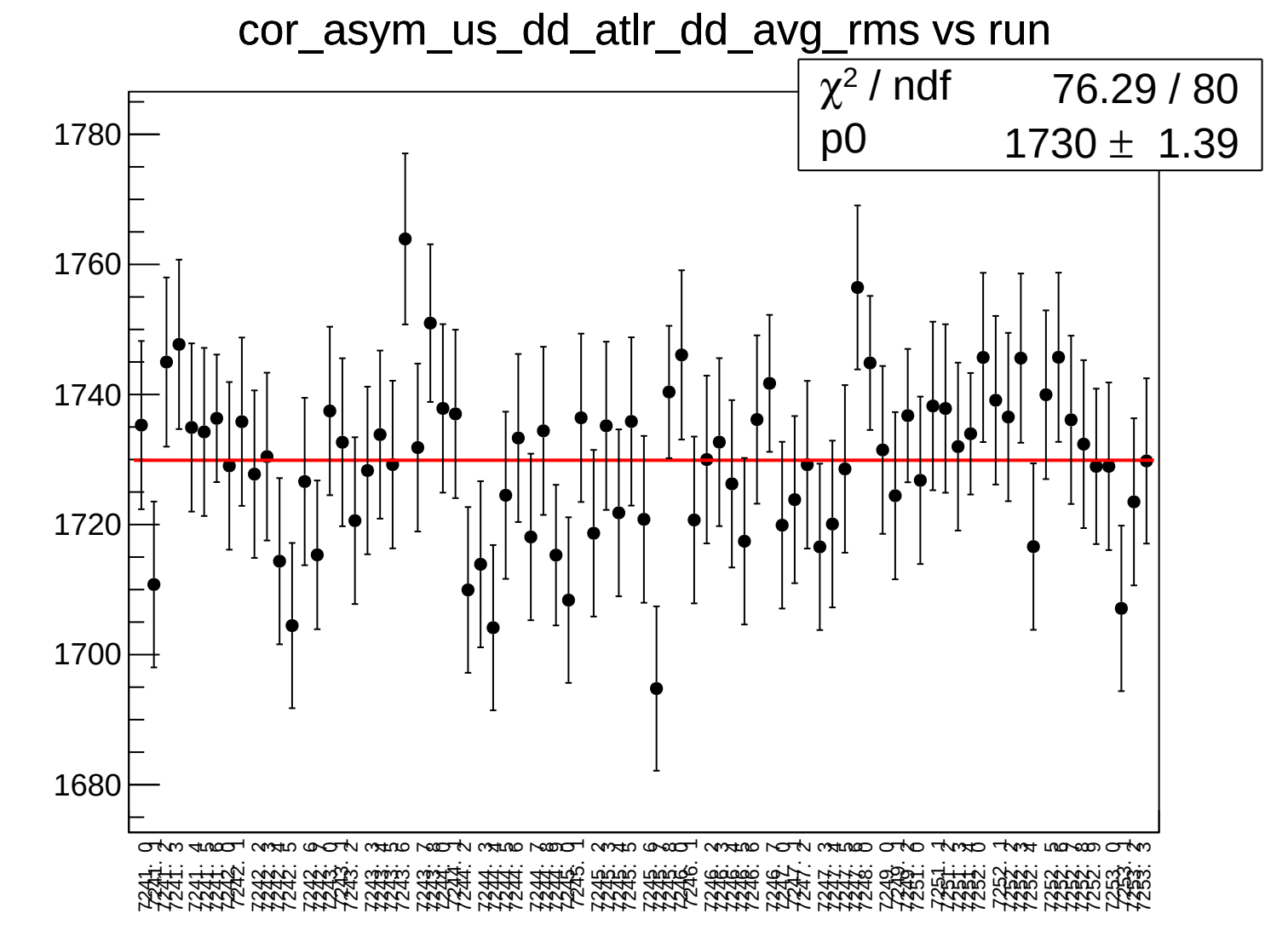

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
χ² / ndf 87.33 / 80
p0 −1204 ± 678.7
20000
10000
0
−10000
−20000
pull
Entries 81
Mean 237.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

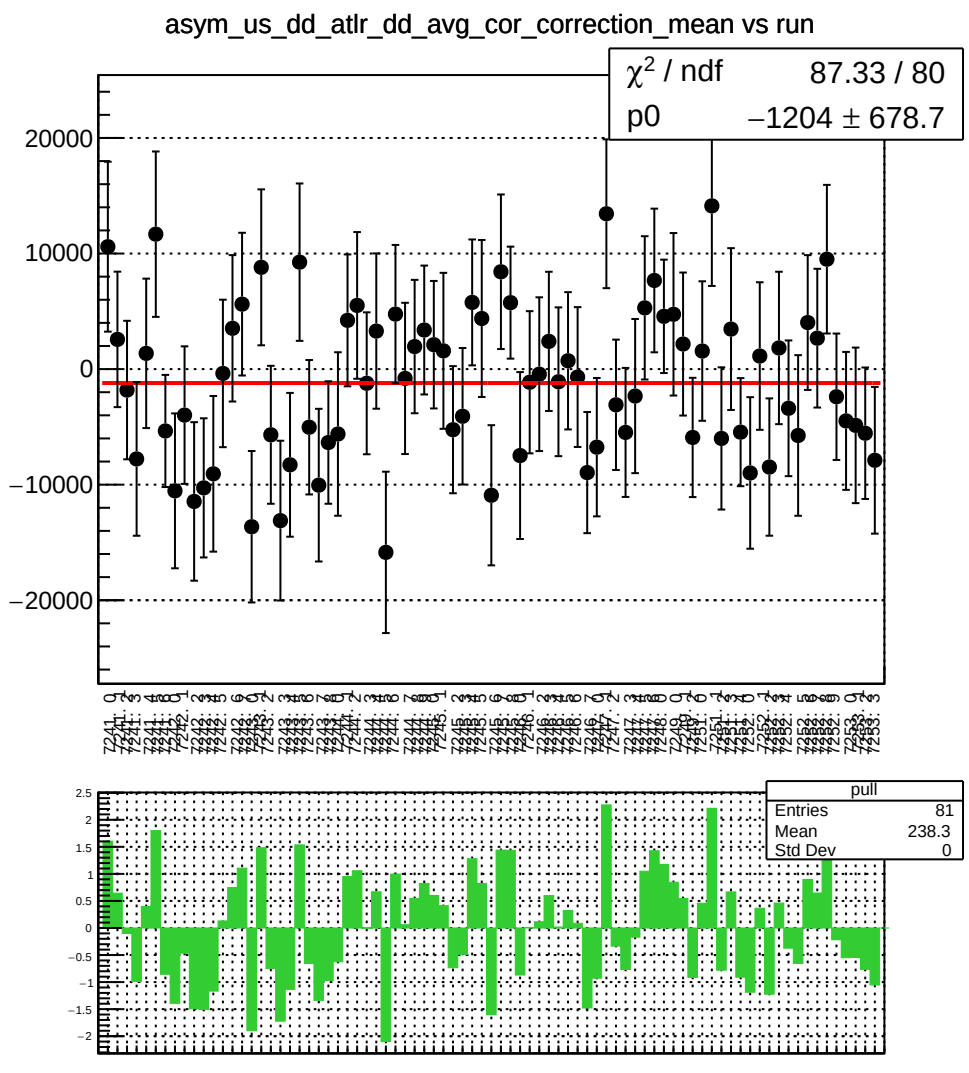

pull1D
Entries 81
Mean 0.008339
Std Dev 1.038
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

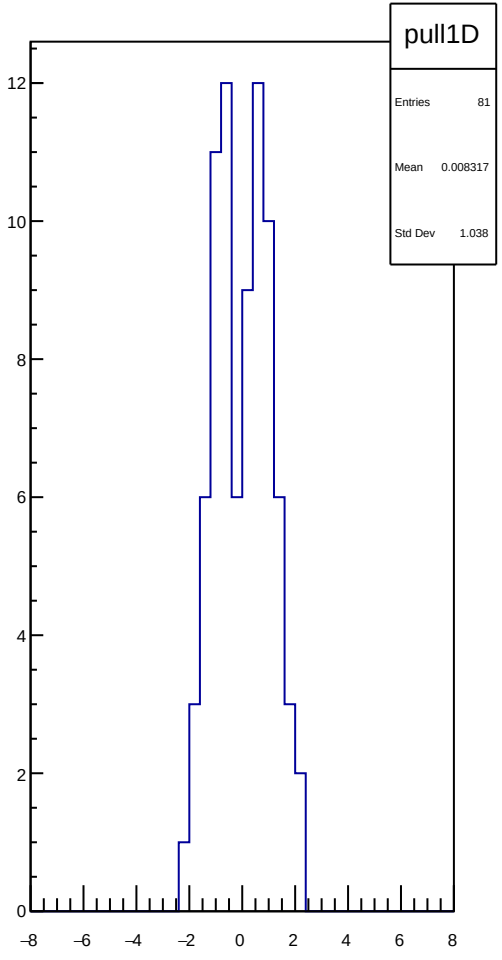

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 7471 / 80
p0 595.9 ± 0.4799
700
650
600
550
500

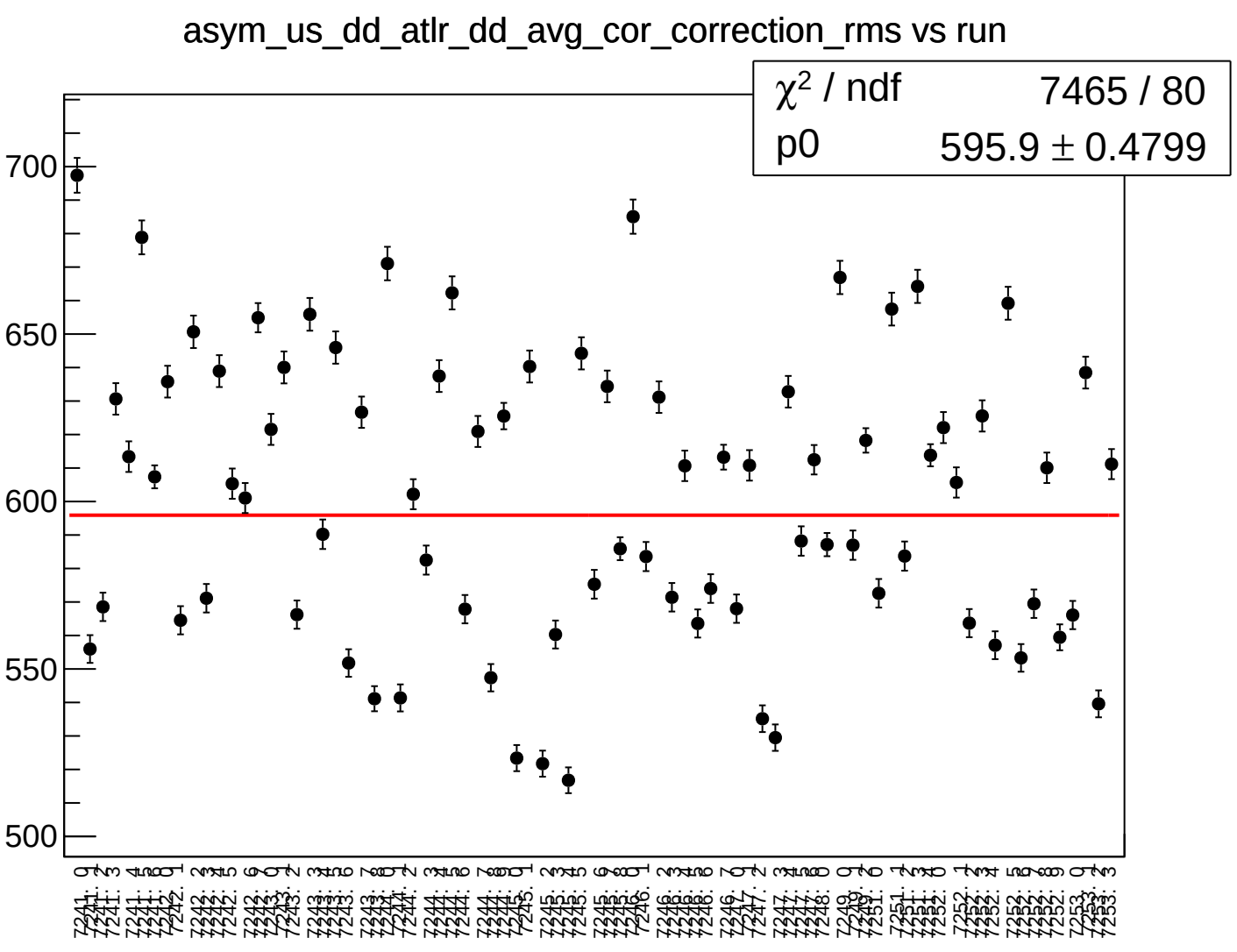

cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 62.22 / 80
p0 −1494 ± 1966
pull
Entries 81
Mean −2465
Std Dev 0

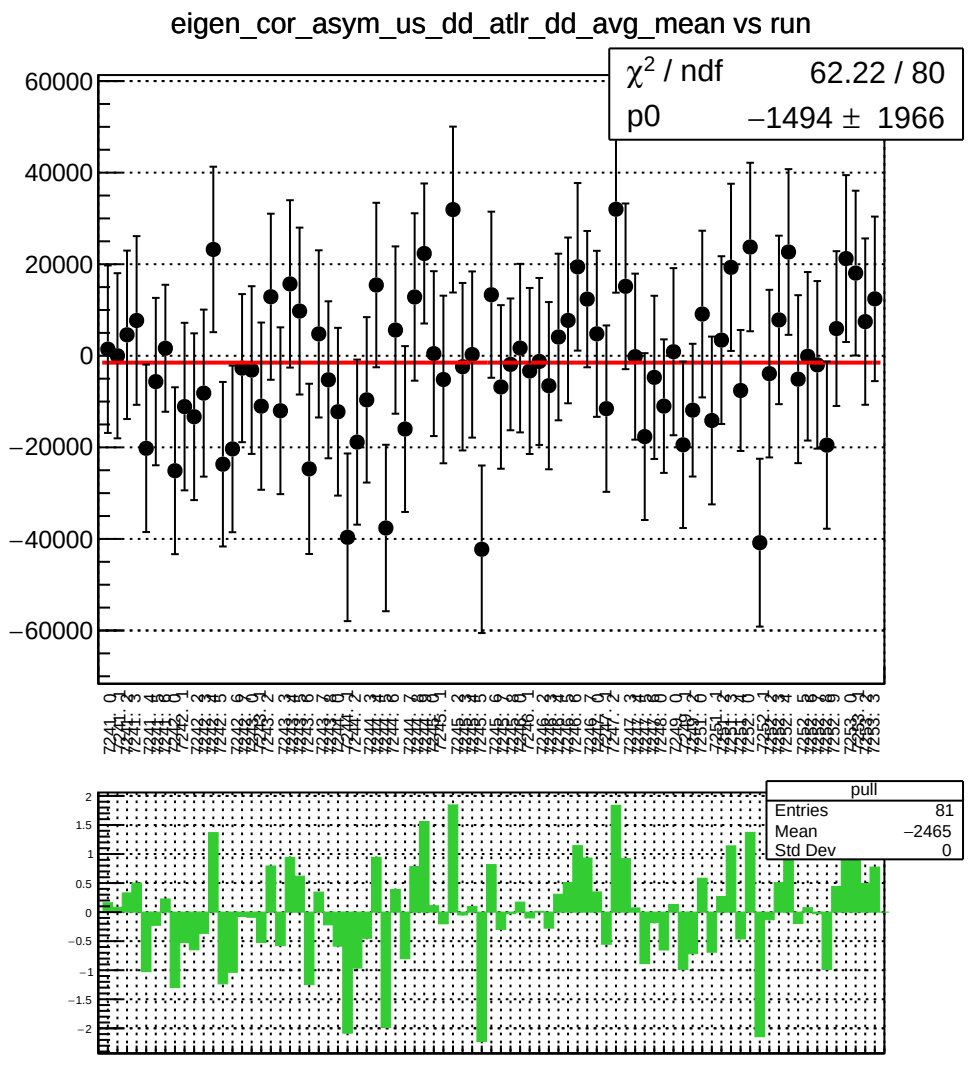

pull1D
Entries 81
Mean −0.001594
Std Dev 0.8764

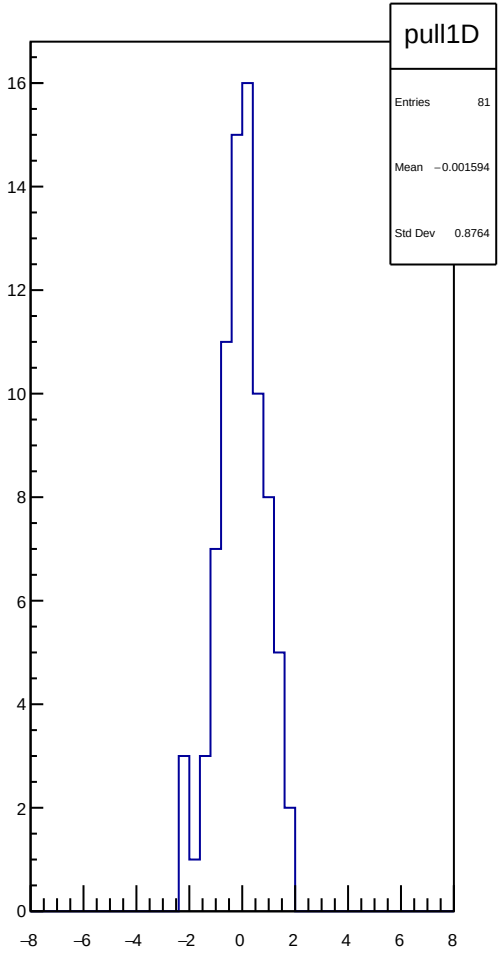

cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 76.29 / 80
p0 1730 ± 1.39
1780
1760
1740
1720
1700
1680

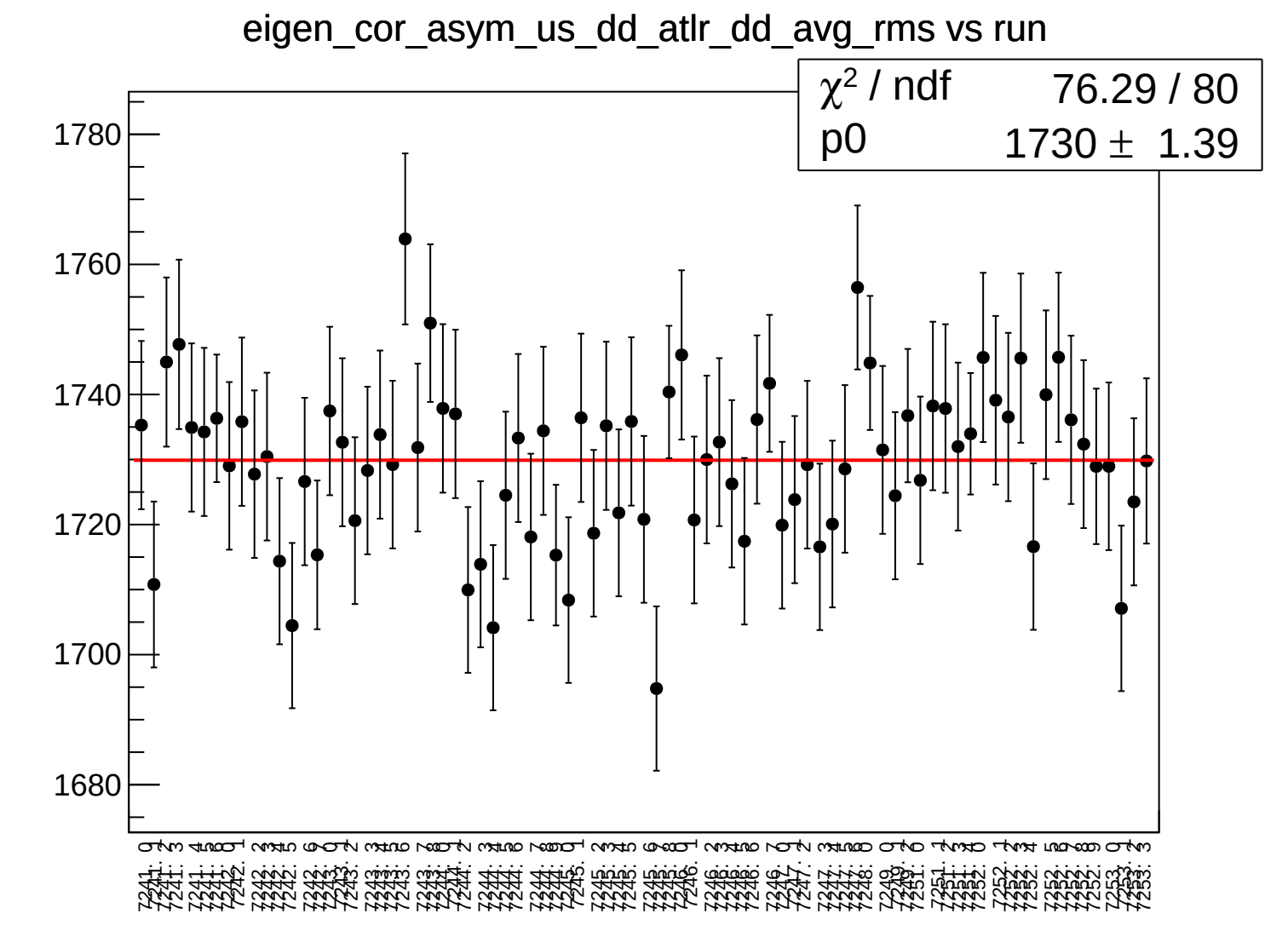

asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
χ² / ndf 87.33 / 80
p0 −1204 ± 678.7
20000
10000
0
−10000
−20000
pull
Entries 81
Mean 238.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

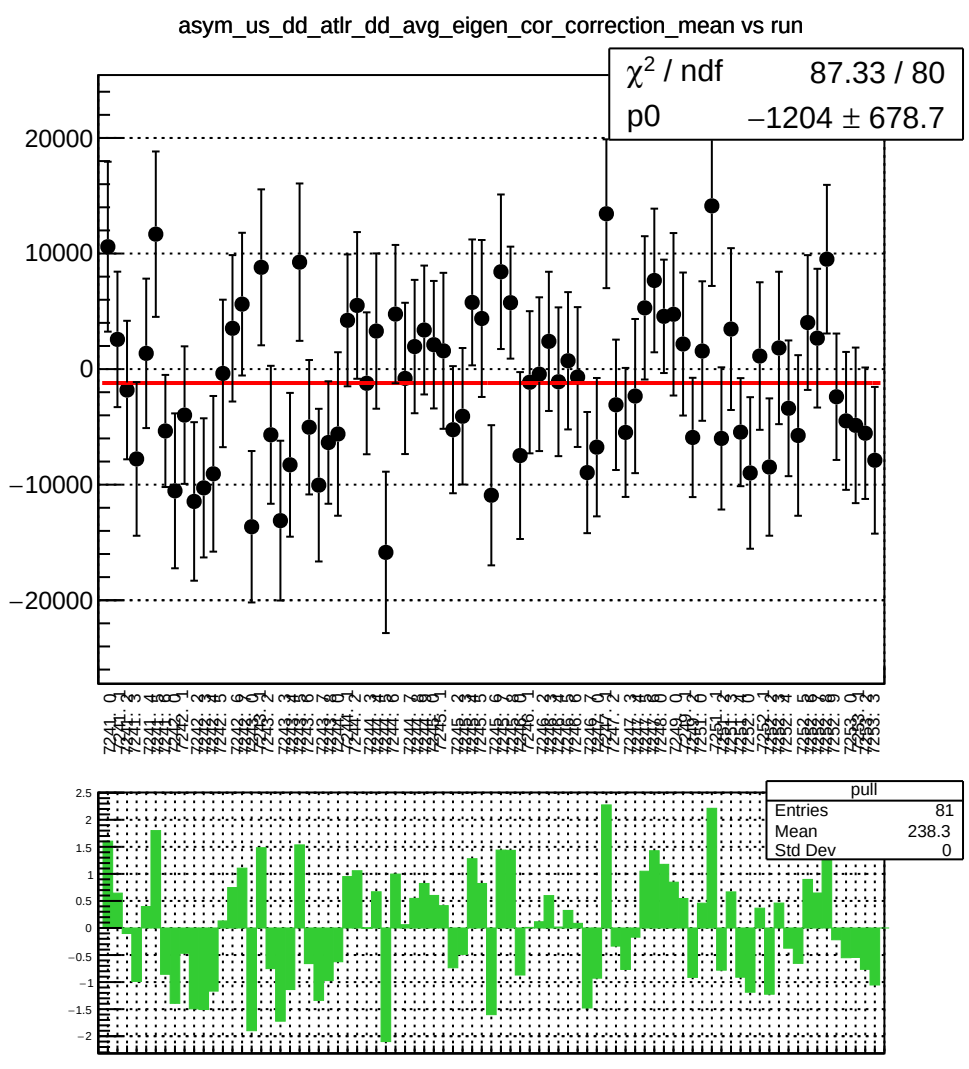

pull1D
Entries 81
Mean 0.008317
Std Dev 1.038
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

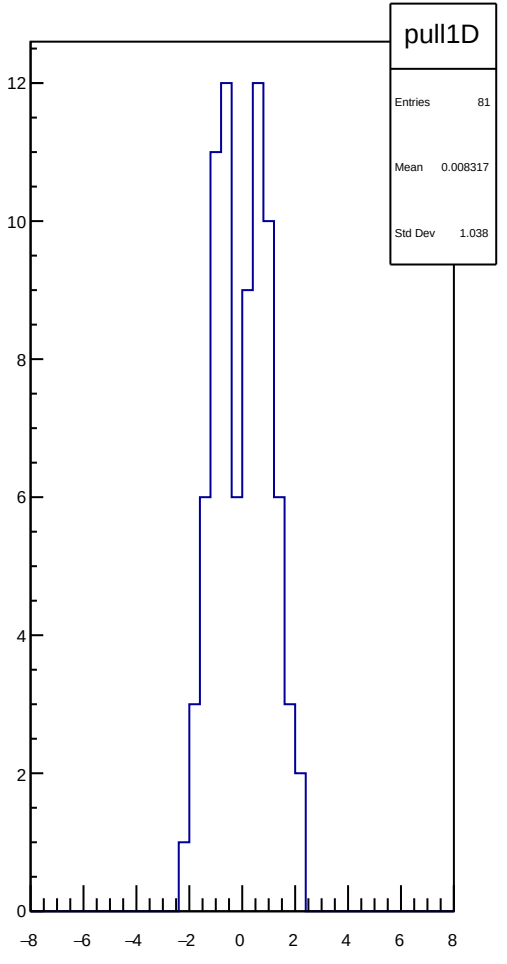

asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 7465 / 80
p0 595.9 ± 0.4799
700
650
600
550
500

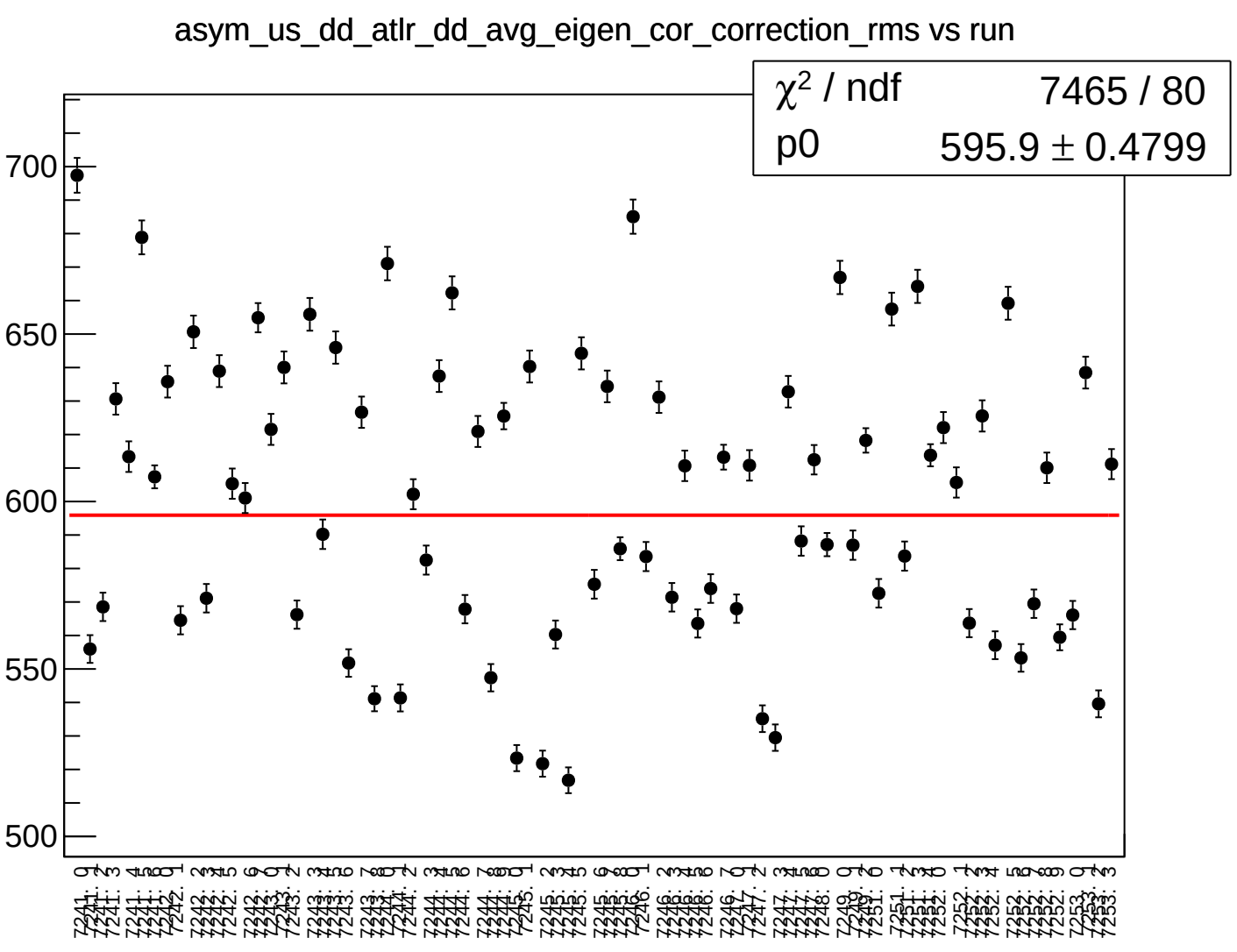

eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 62.22 / 80
p0 −1494 ± 1966
pull
Entries 81
Mean −2465
Std Dev 0

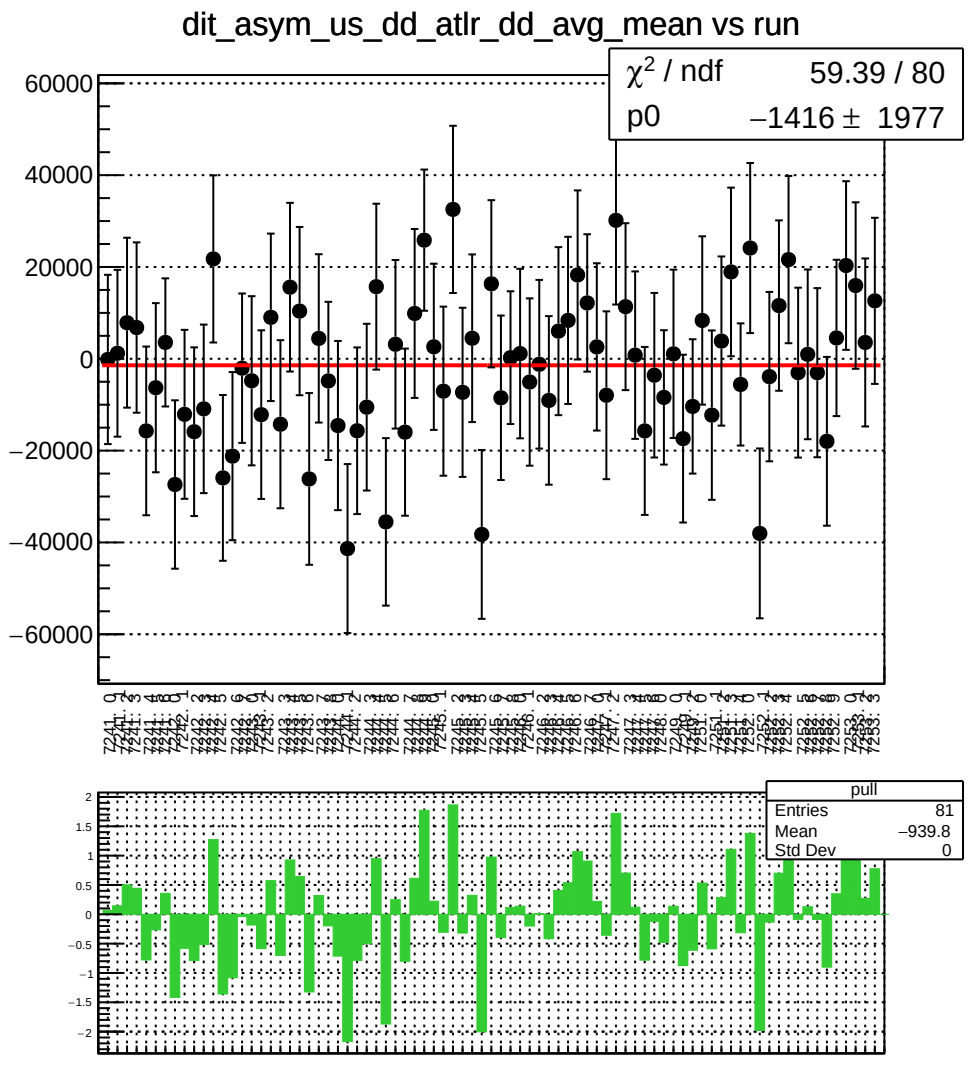

pull1D
Entries 81
Mean −0.001594
Std Dev 0.8764

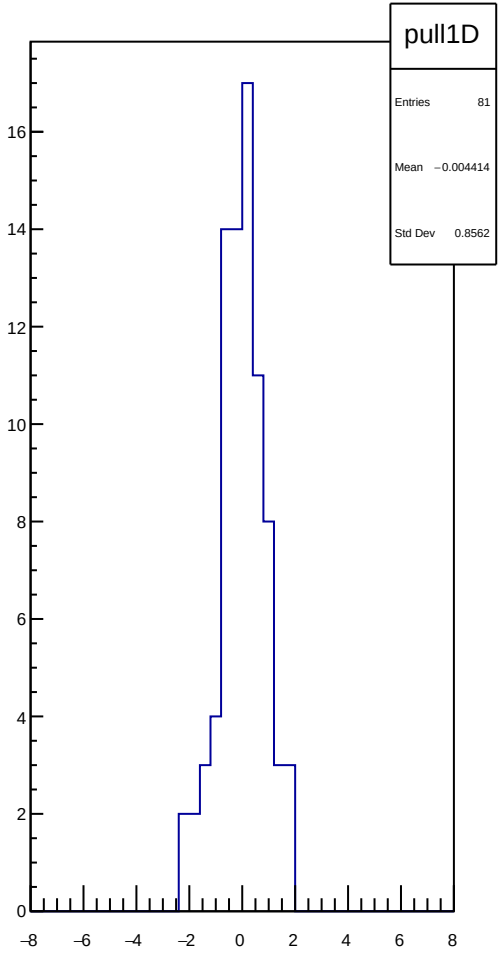

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 76.29 / 80
p0 1730 ± 1.39
1780
1760
1740
1720
1700
1680

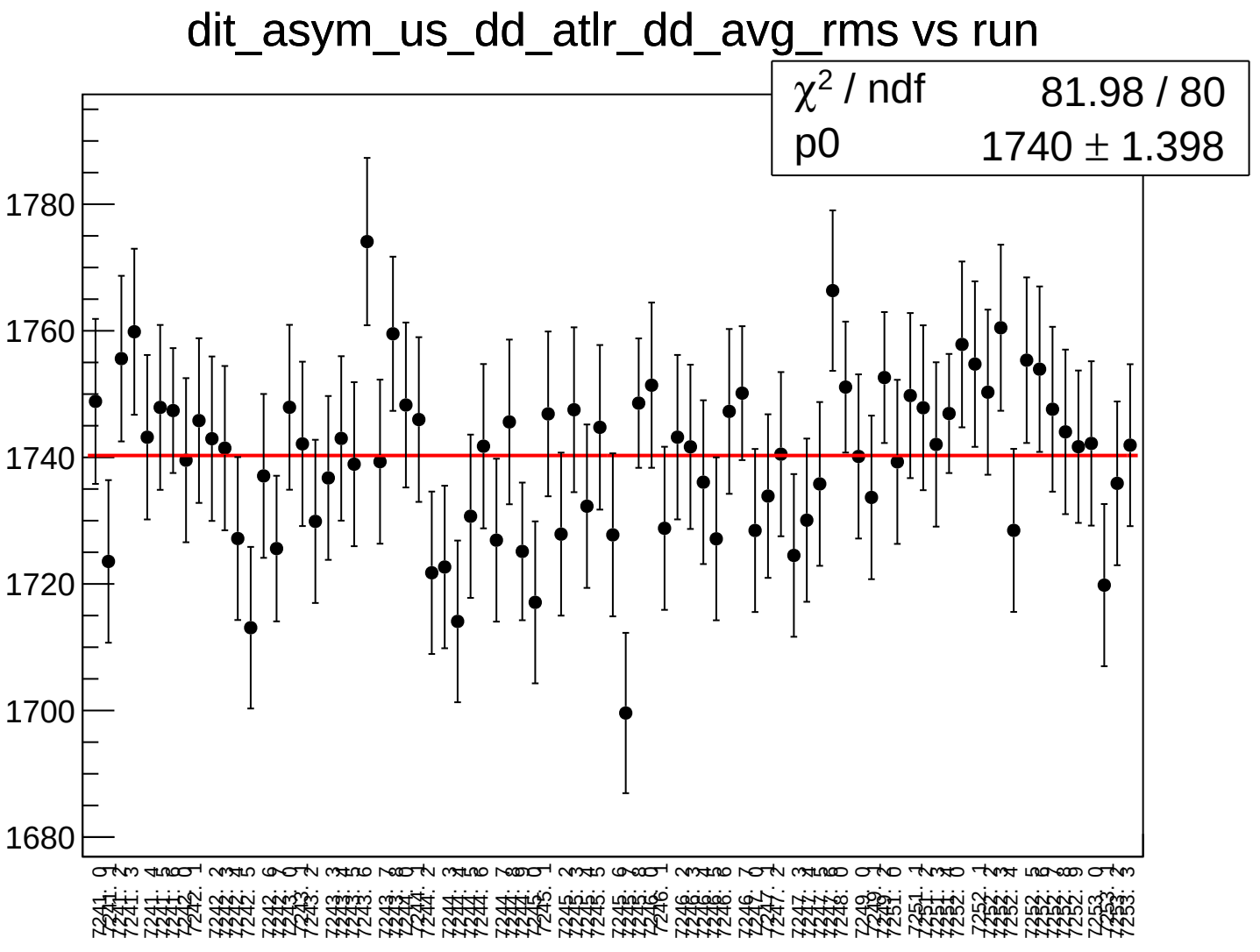

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 87.33 / 80
p0 −1204 ± 678.7
20000
10000
0
−10000
−20000
pull
Entries 81
Mean 238.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

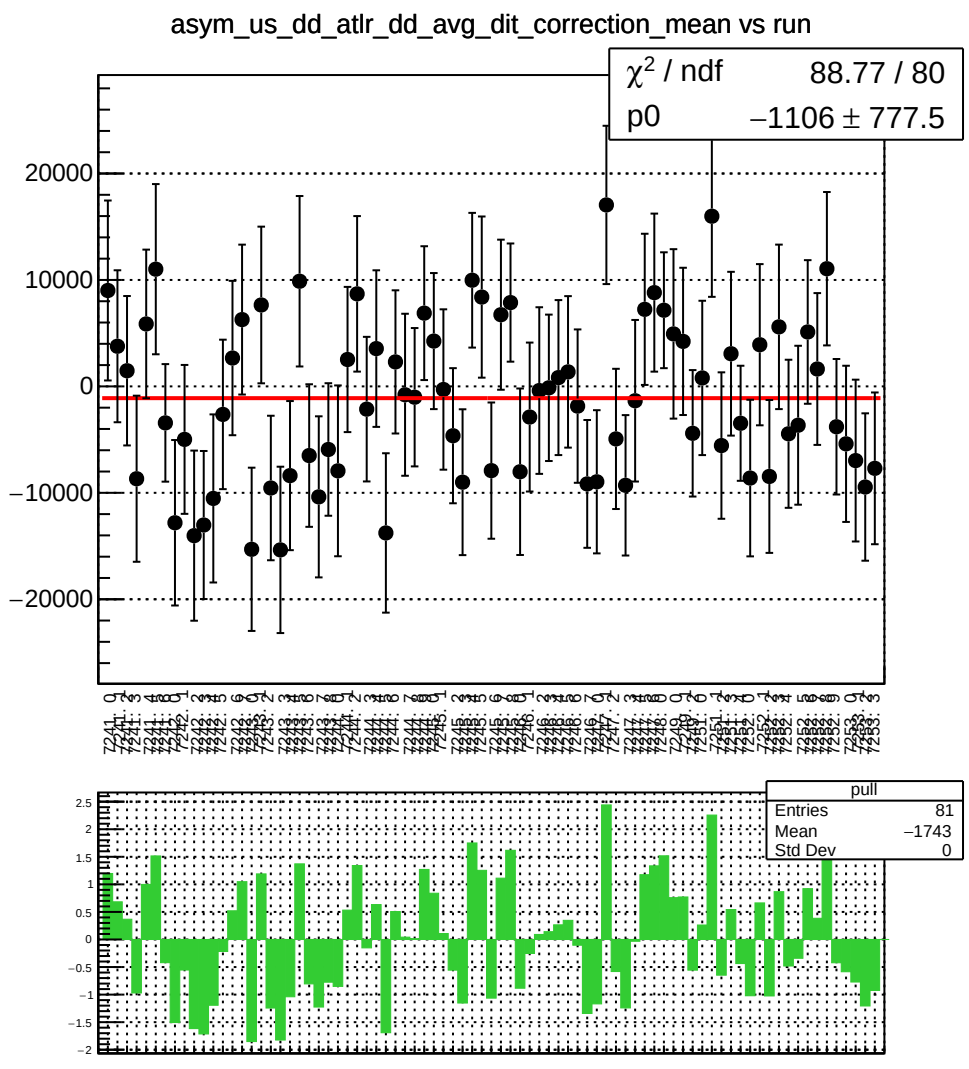

pull1D
Entries 81
Mean 0.008317
Std Dev 1.038
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

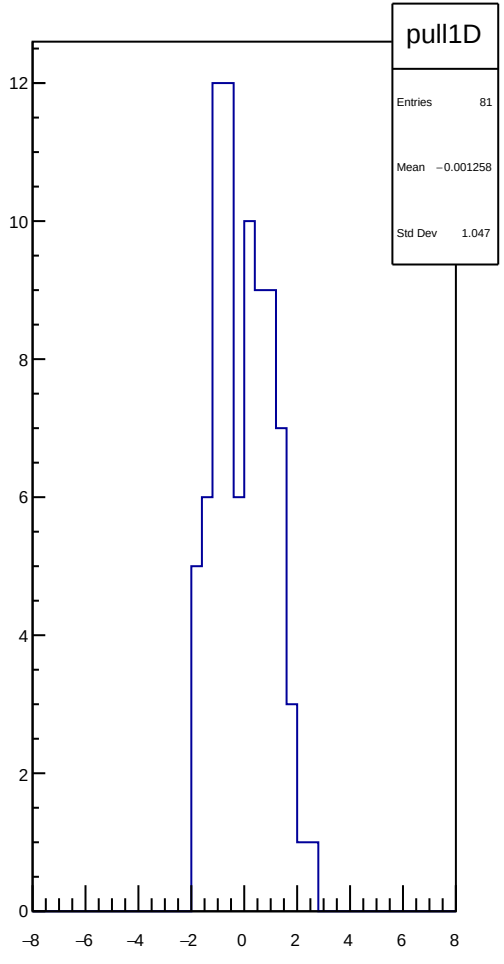

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 7465 / 80
p0 595.9 ± 0.4799
700
650
600
550
500

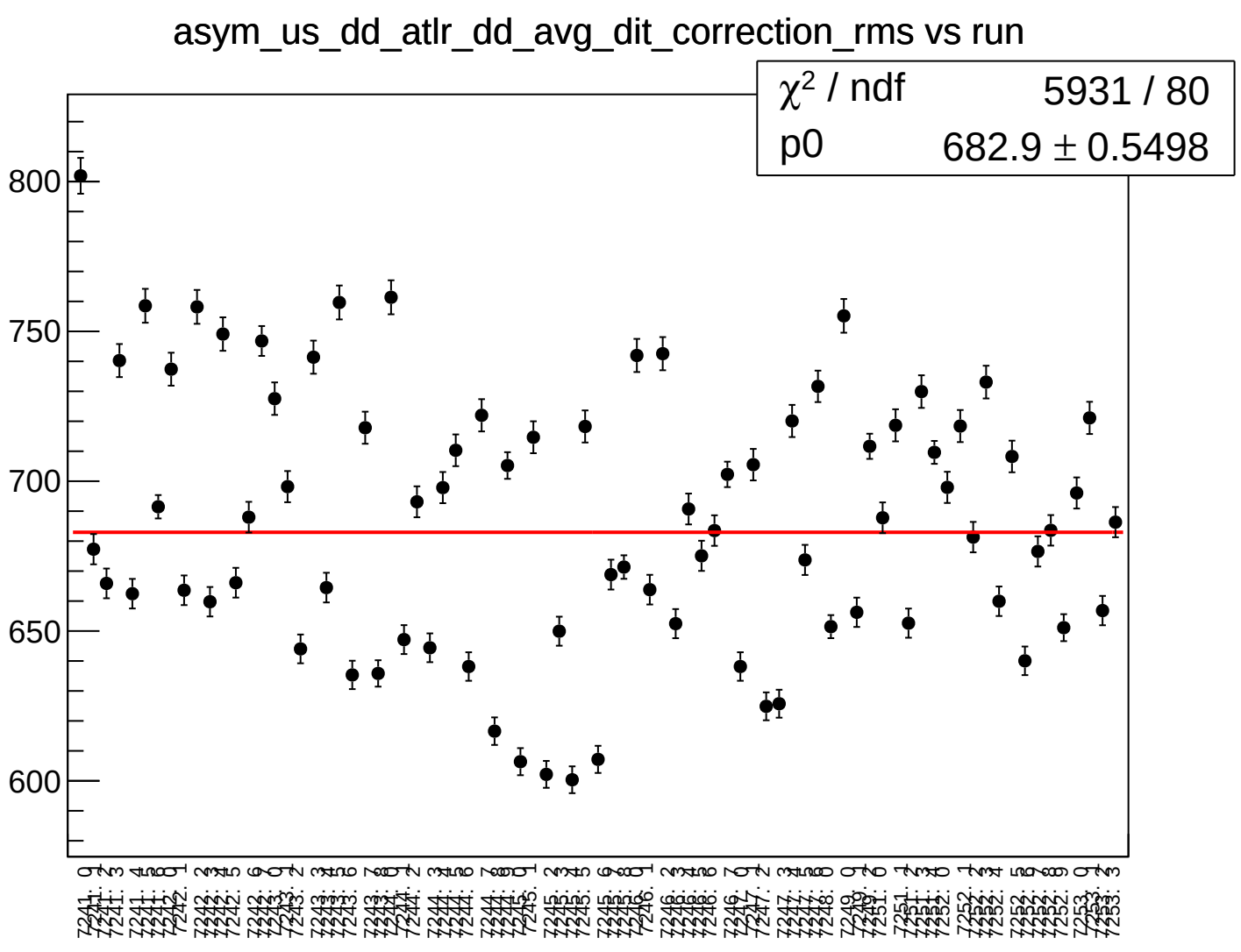

dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 59.39 / 80
p0 −1416 ± 1977
pull
Entries 81
Mean −939.8
Std Dev 0

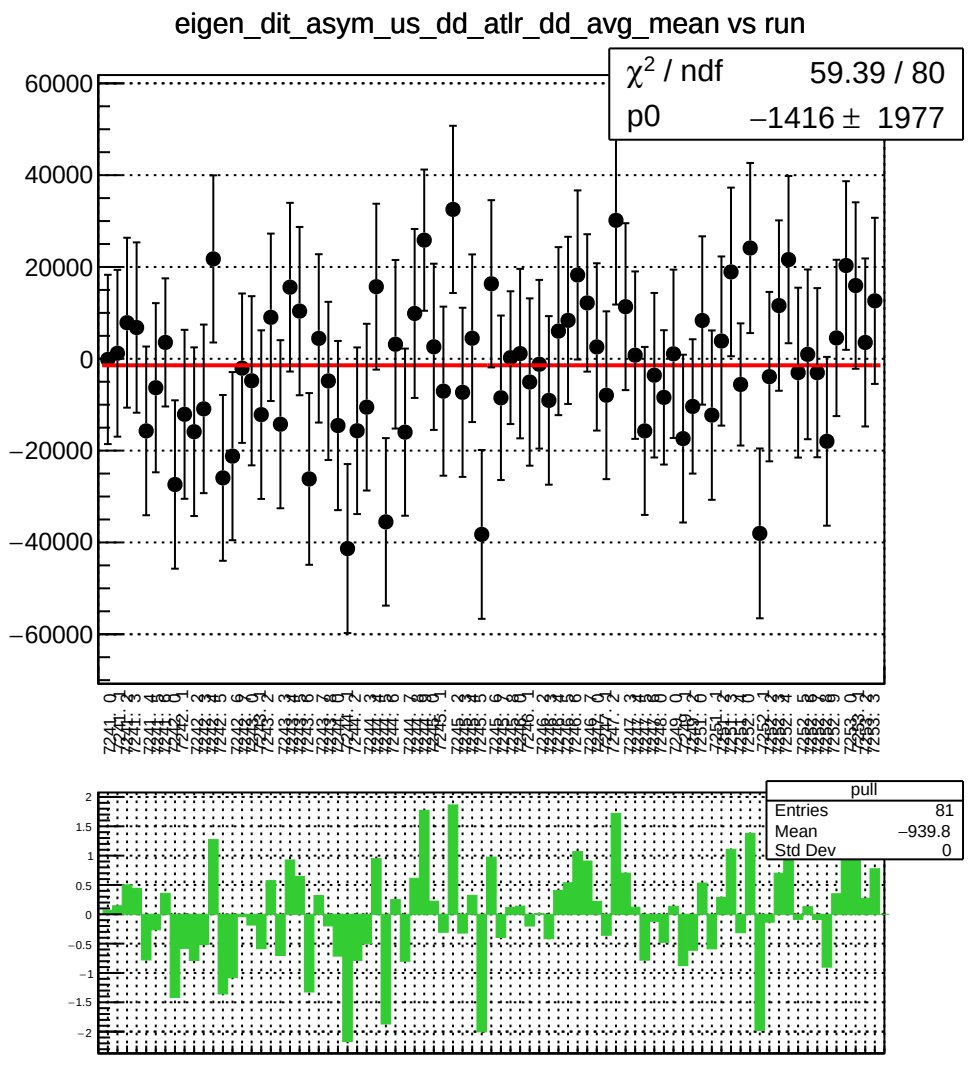

pull1D
Entries 81
Mean −0.004414
Std Dev 0.8562

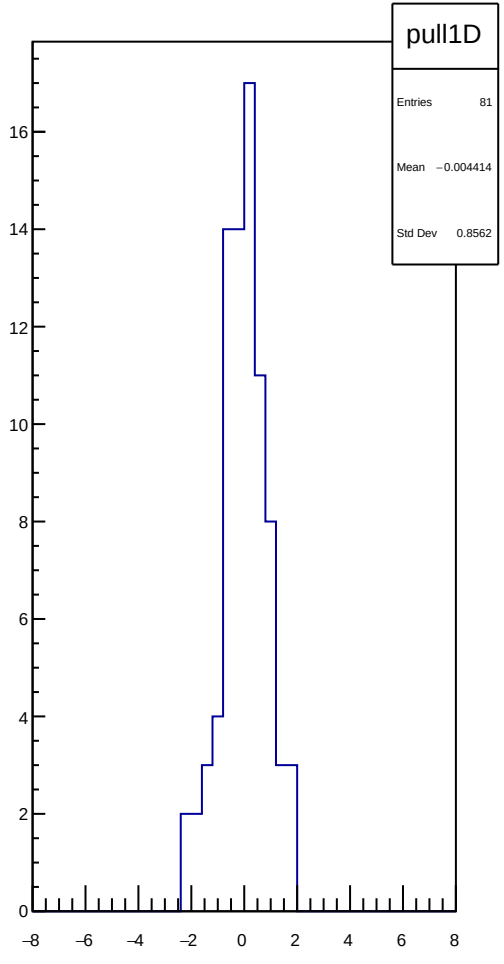

dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 81.98 / 80
p0 1740 ± 1.398
1780
1760
1740
1720
1700
1680

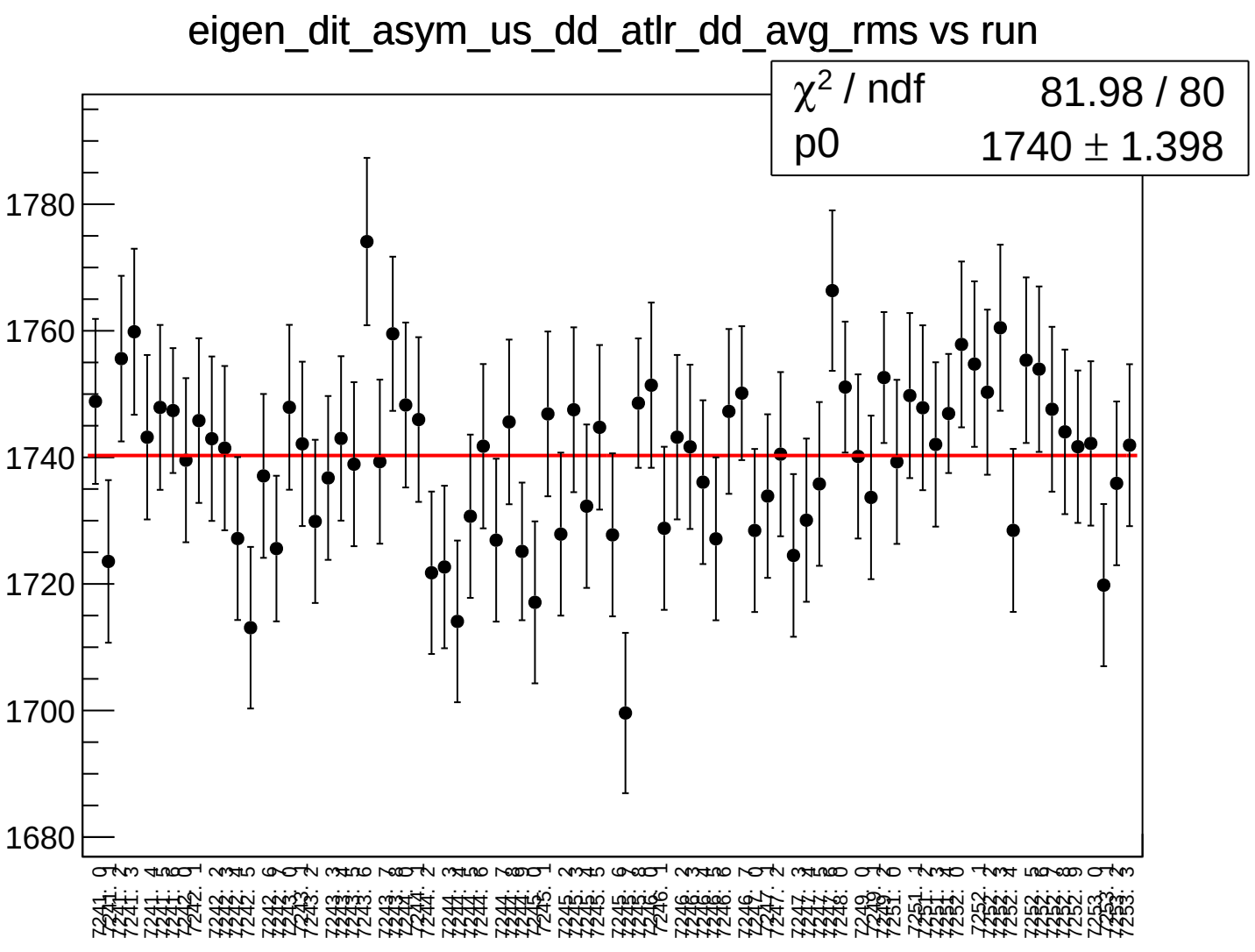

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
χ² / ndf 88.77 / 80
p0 −1106 ± 777.5
20000
10000
0
−10000
−20000
pull
Entries 81
Mean −1743
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

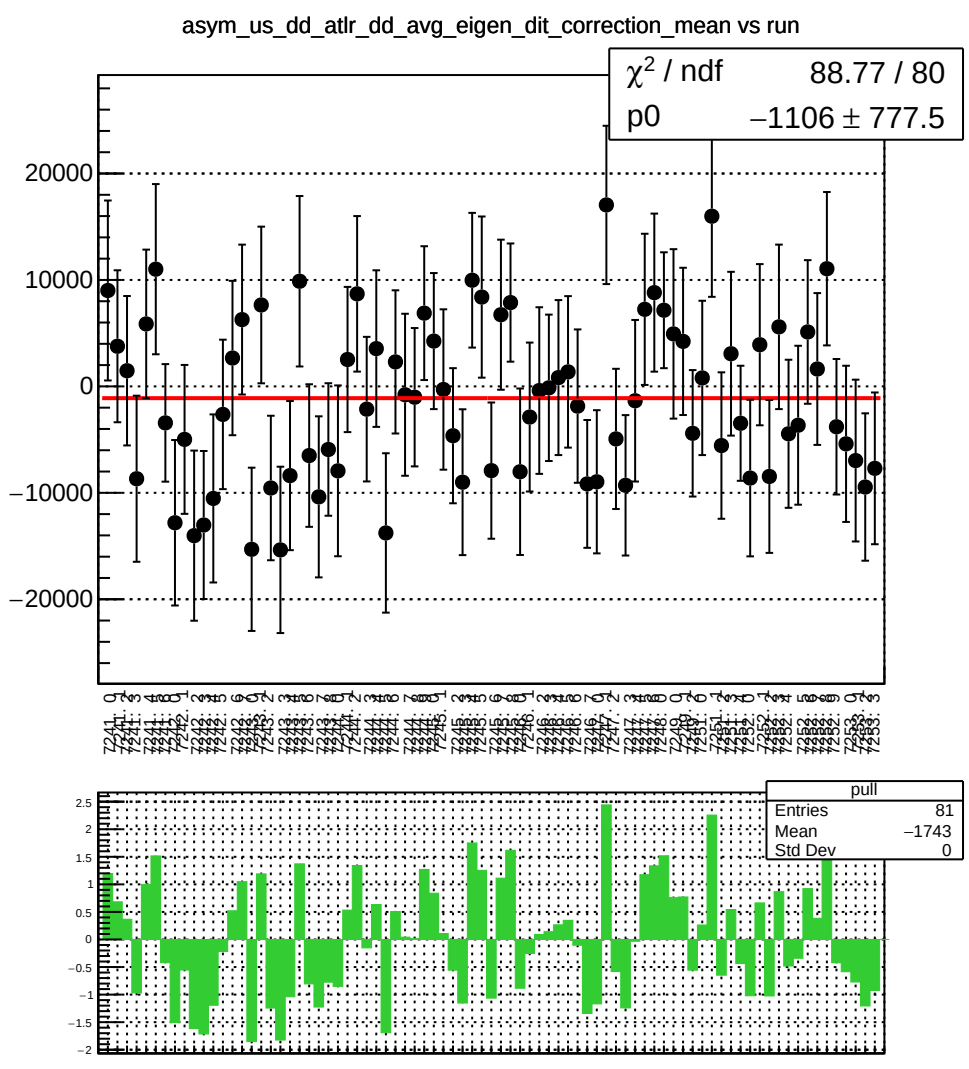

pull1D
Entries 81
Mean −0.001258
Std Dev 1.047
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

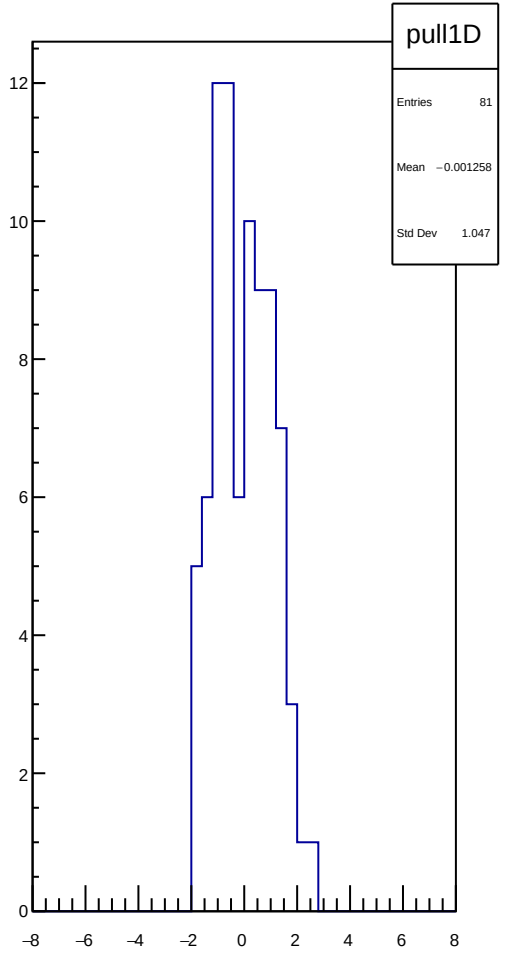

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ² / ndf 5931 / 80
p0 682.9 ± 0.5498
800
750
700
650
600

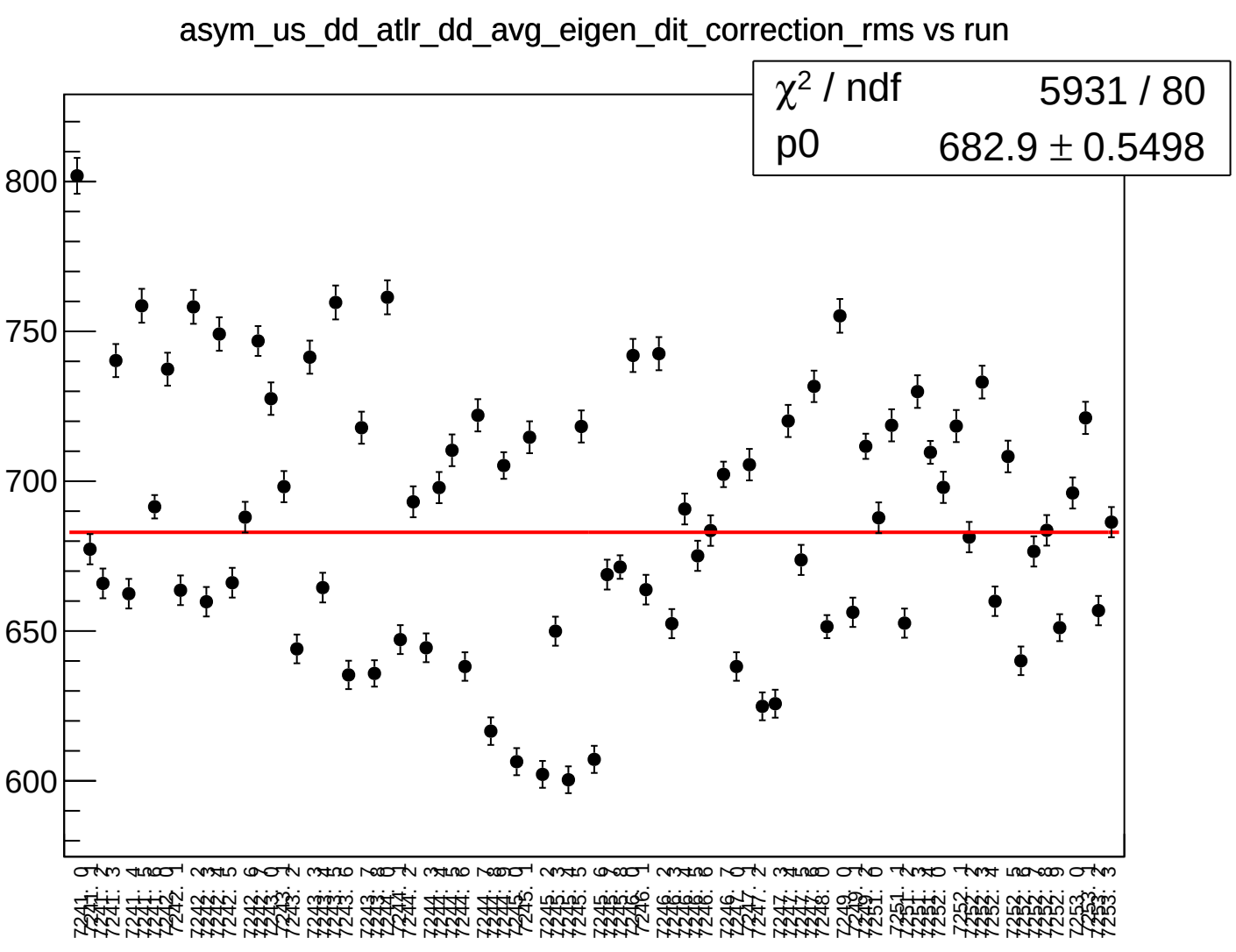

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 59.39 / 80
p0 −1416 ± 1977
pull
Entries 81
Mean −939.8
Std Dev 0

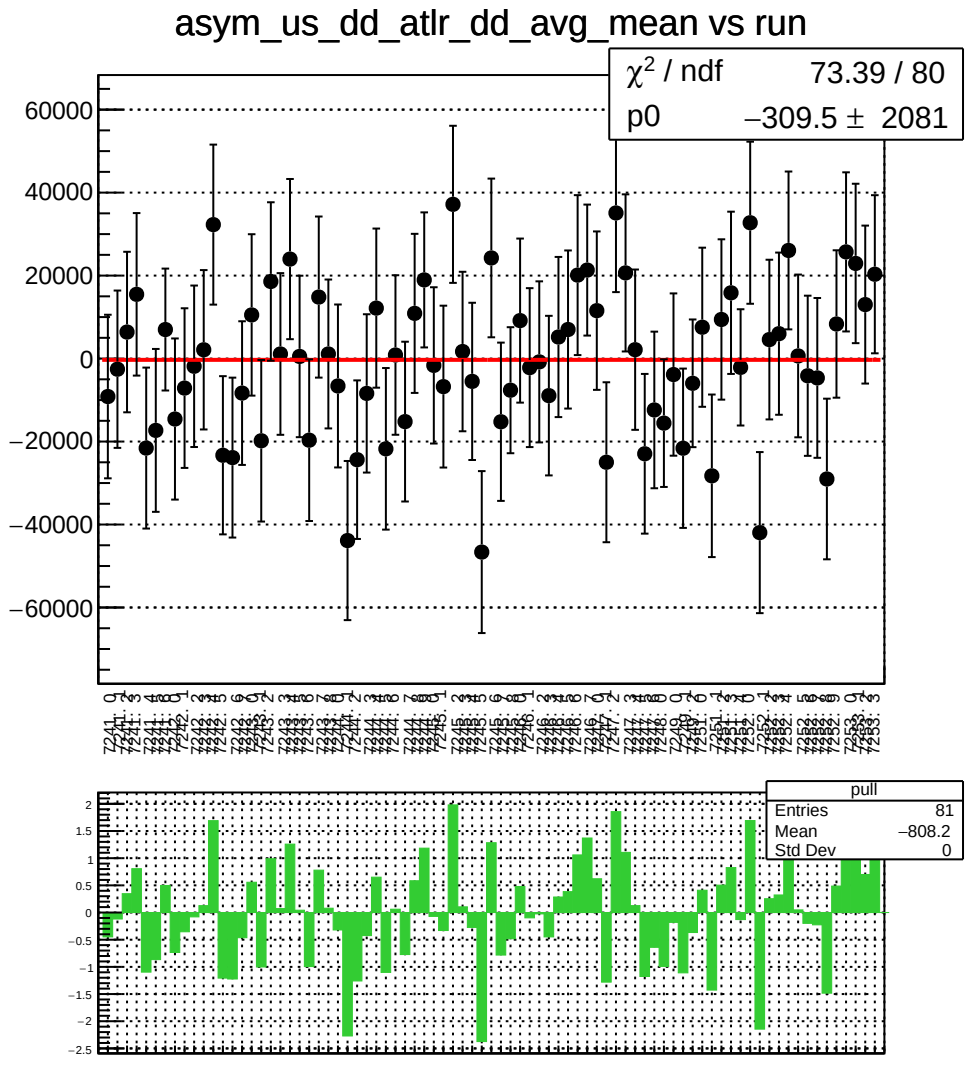

pull1D
Entries 81
Mean −0.004414
Std Dev 0.8562

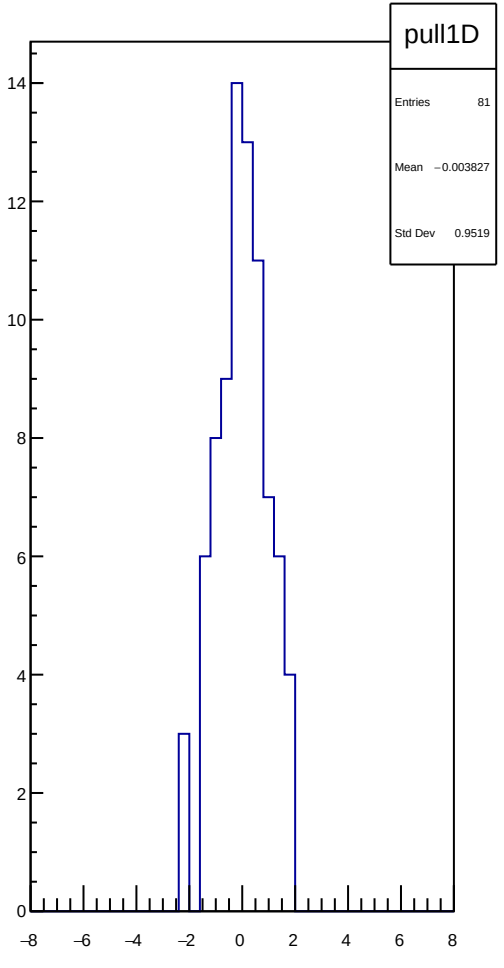

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 81.98 / 80
p0 1740 ± 1.398
1780
1760
1740
1720
1700
1680

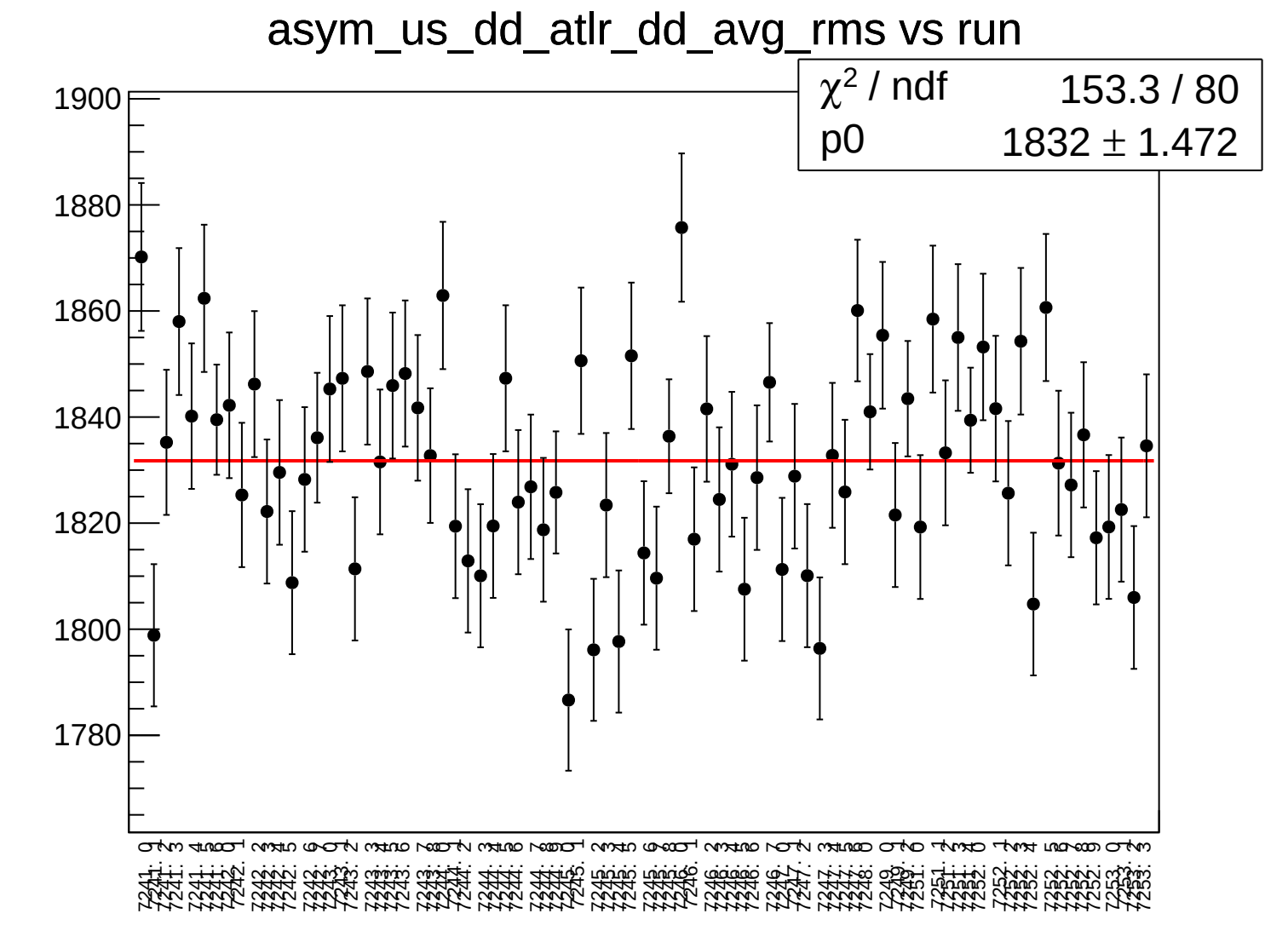

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 88.77 / 80
p0 −1106 ± 777.5
20000
10000
0
−10000
−20000
pull
Entries 81
Mean −1743
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

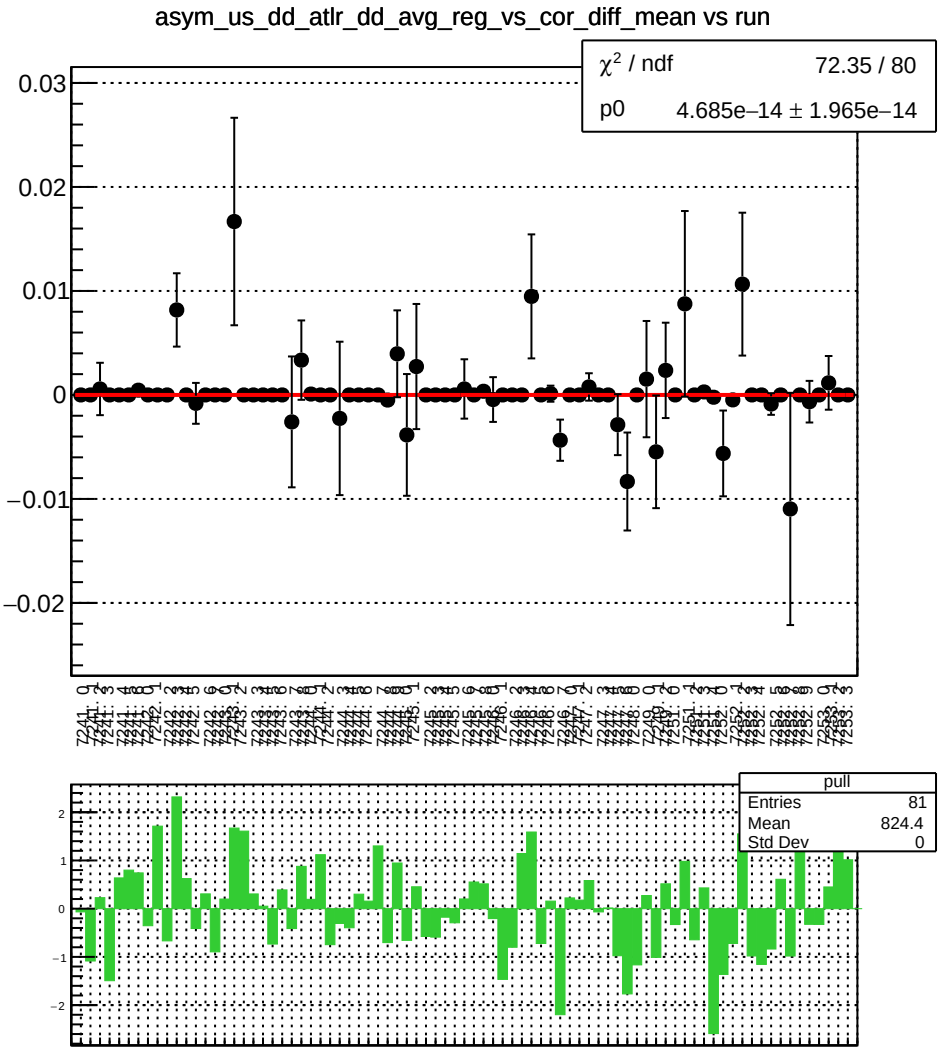

pull1D
Entries 81
Mean −0.001258
Std Dev 1.047
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

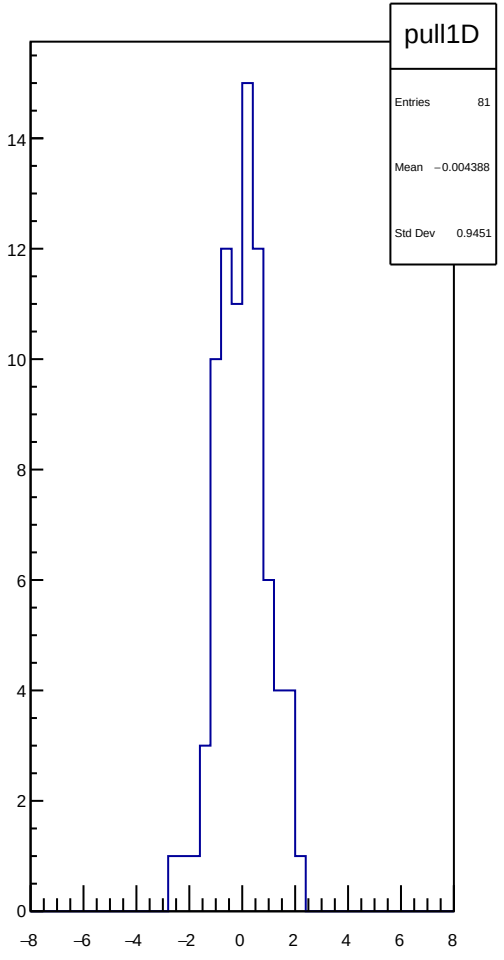

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 5931 / 80
p0 682.9 ± 0.5498
800
750
700
650
600

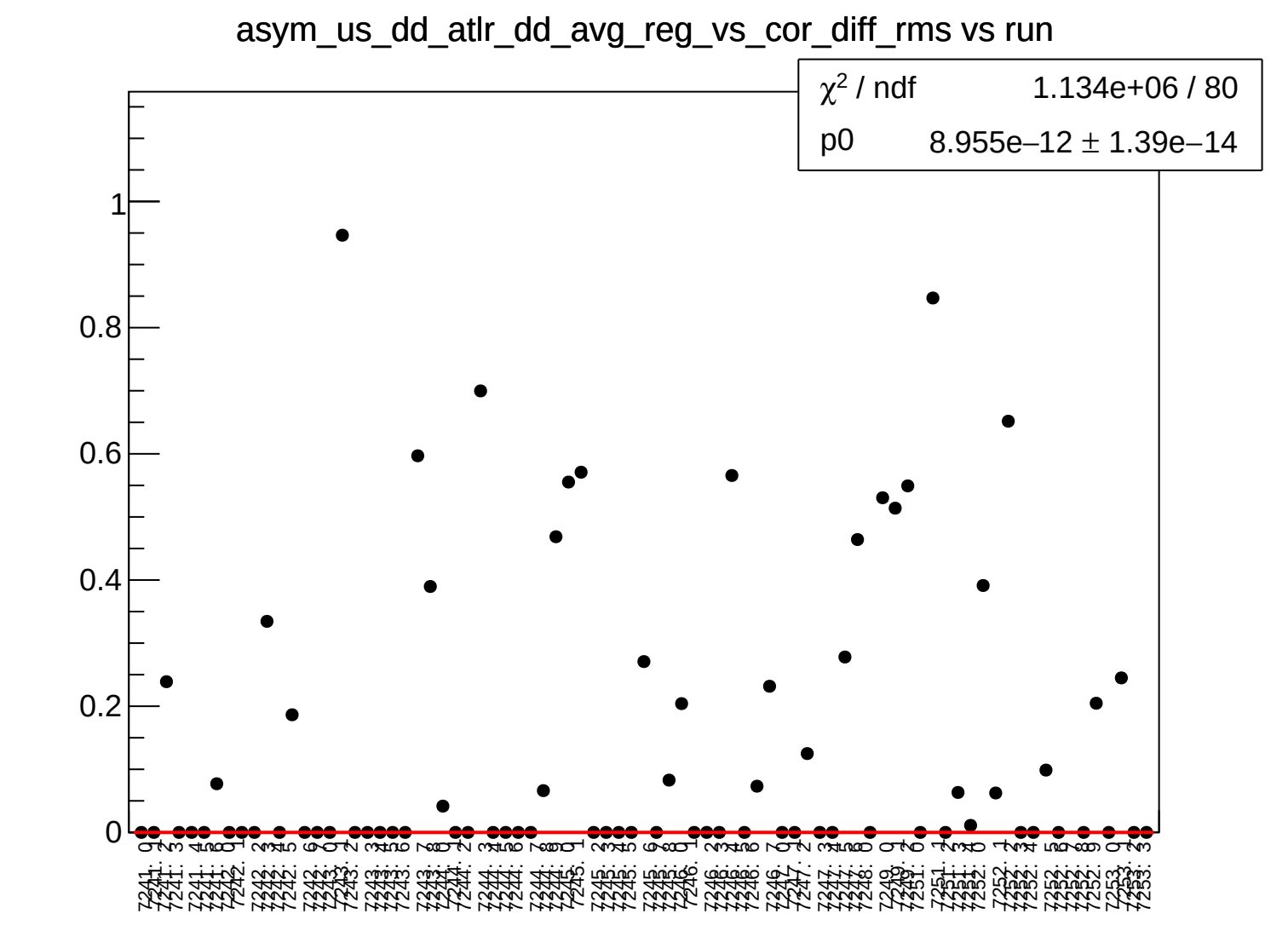

asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 73.39 / 80
p0 −309.5 ± 2081
pull
Entries 81
Mean −808.2
Std Dev 0

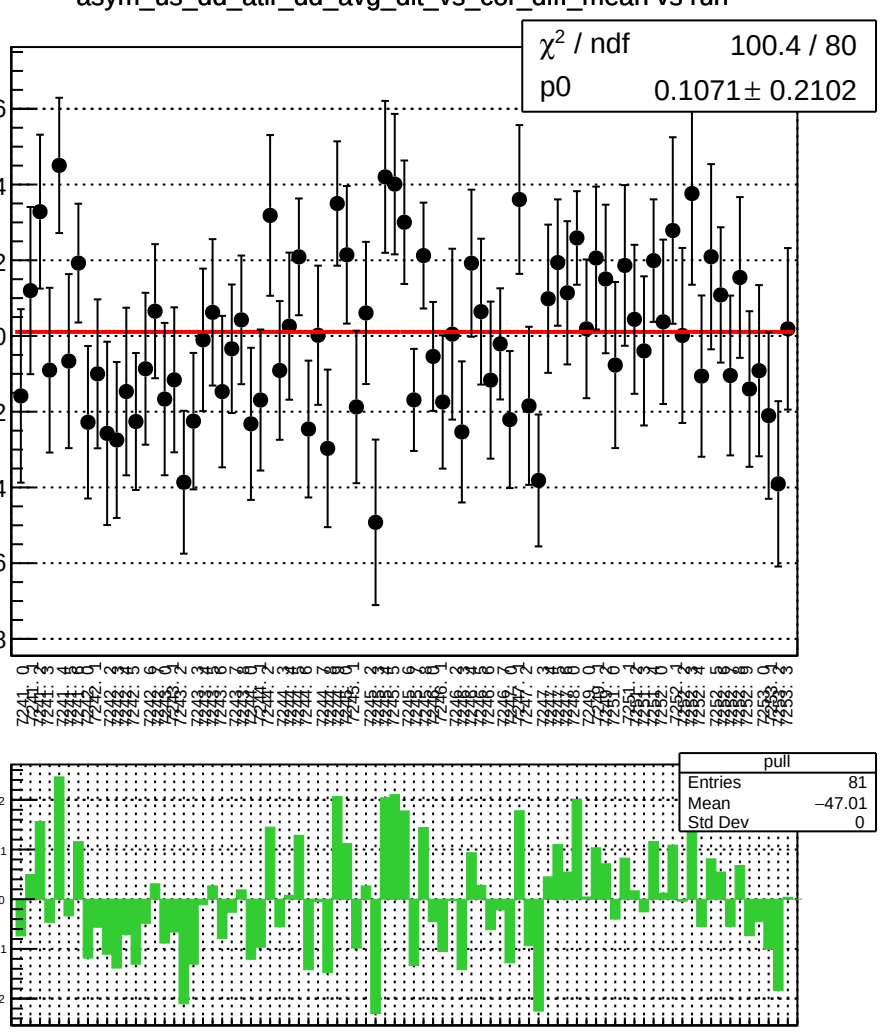

pull1D
Entries 81
Mean −0.003827
Std Dev 0.9519

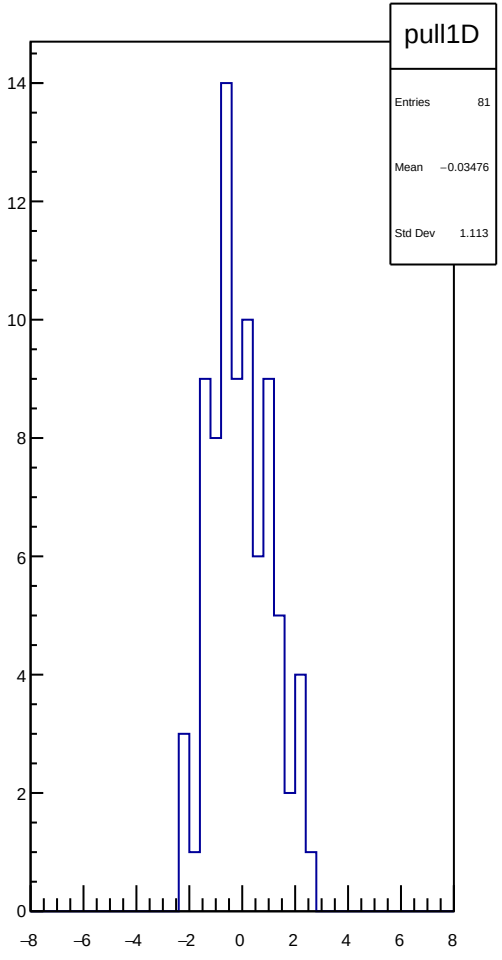

asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 153.3 / 80
p0 1832 ± 1.472
1900
1880
1860
1840
1820
1800
1780

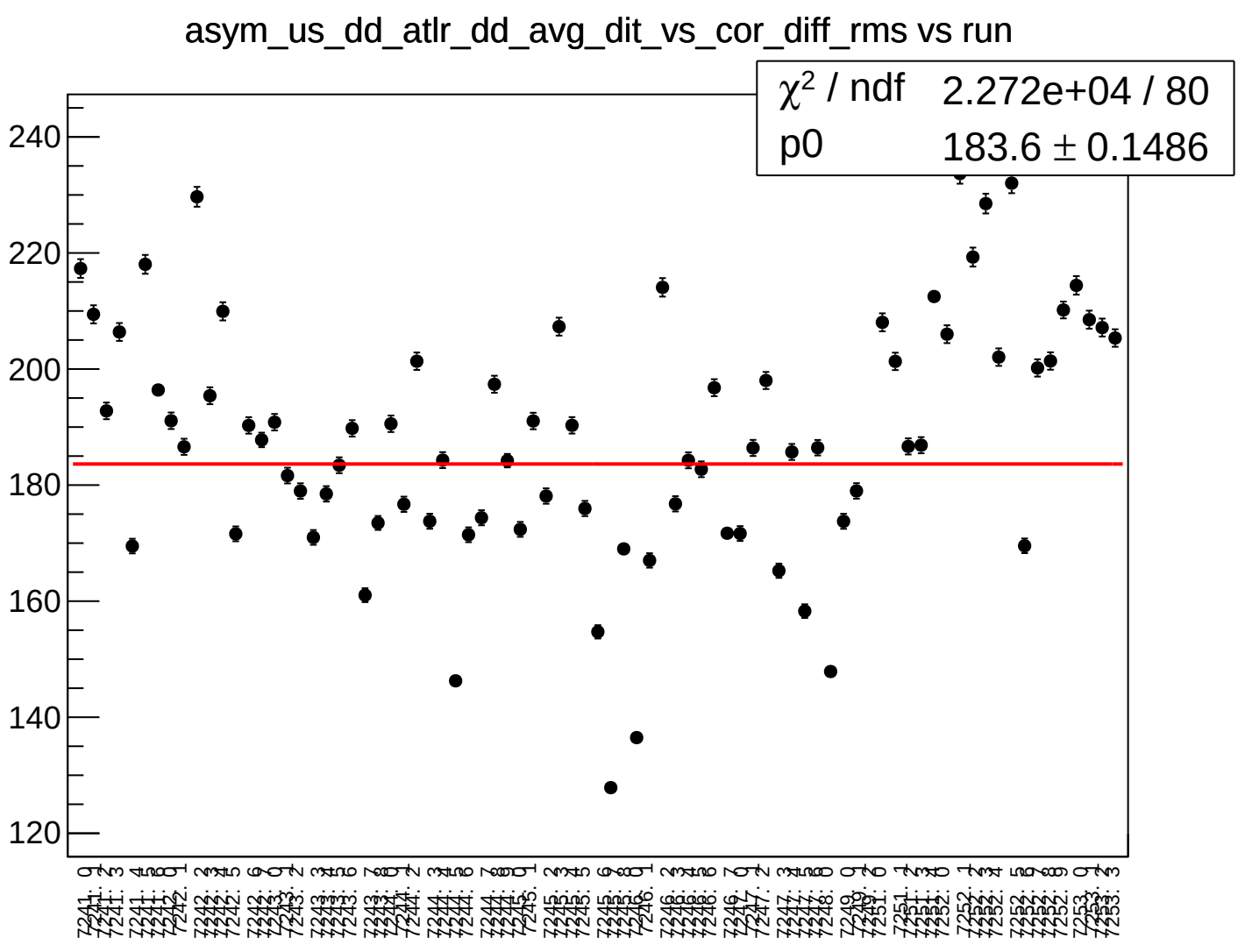

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 72.35 / 80
p0 4.685e−14 ± 1.965e−14
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 81
Mean 824.4
Std Dev 0

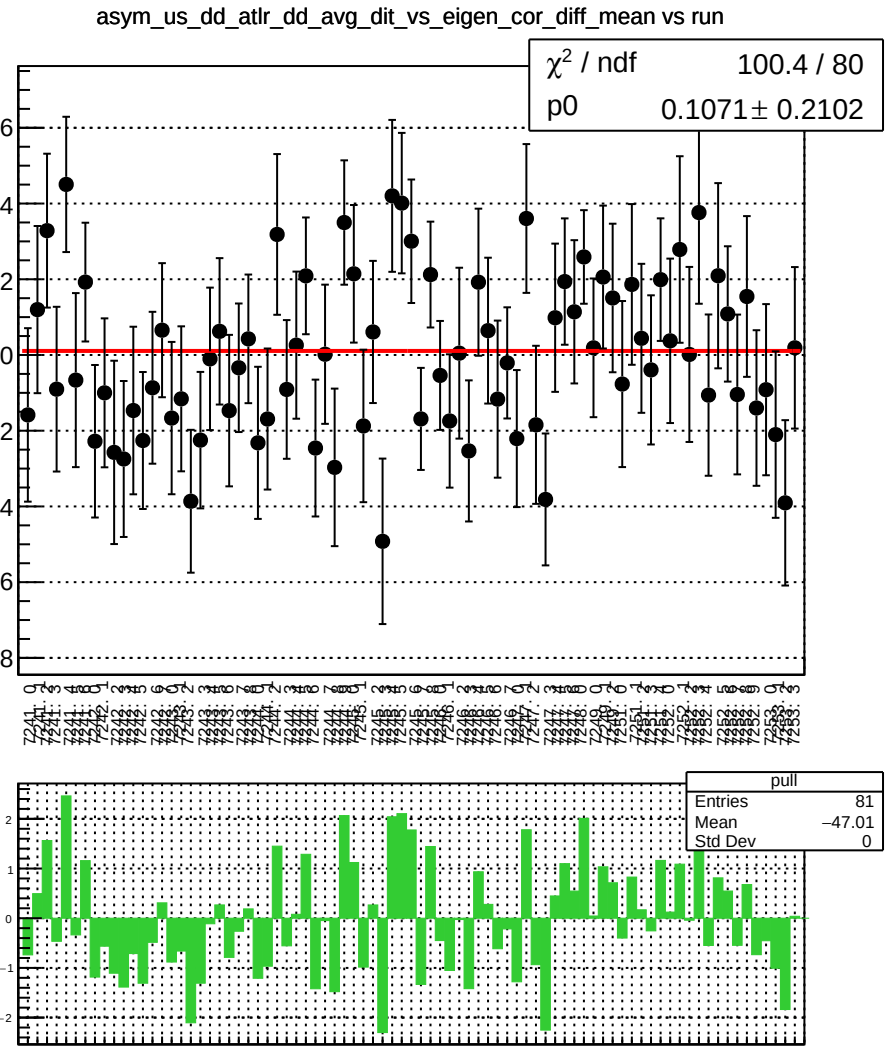

pull1D
Entries 81
Mean −0.004388
Std Dev 0.9451
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

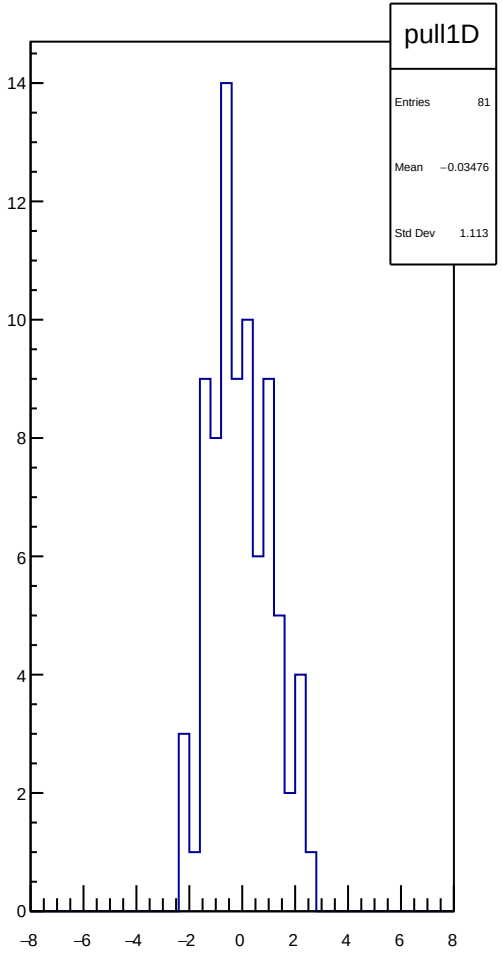

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.134e+06 / 80
p0 8.955e−12 ± 1.39e−14
1
0.8
0.6
0.4
0.2
0

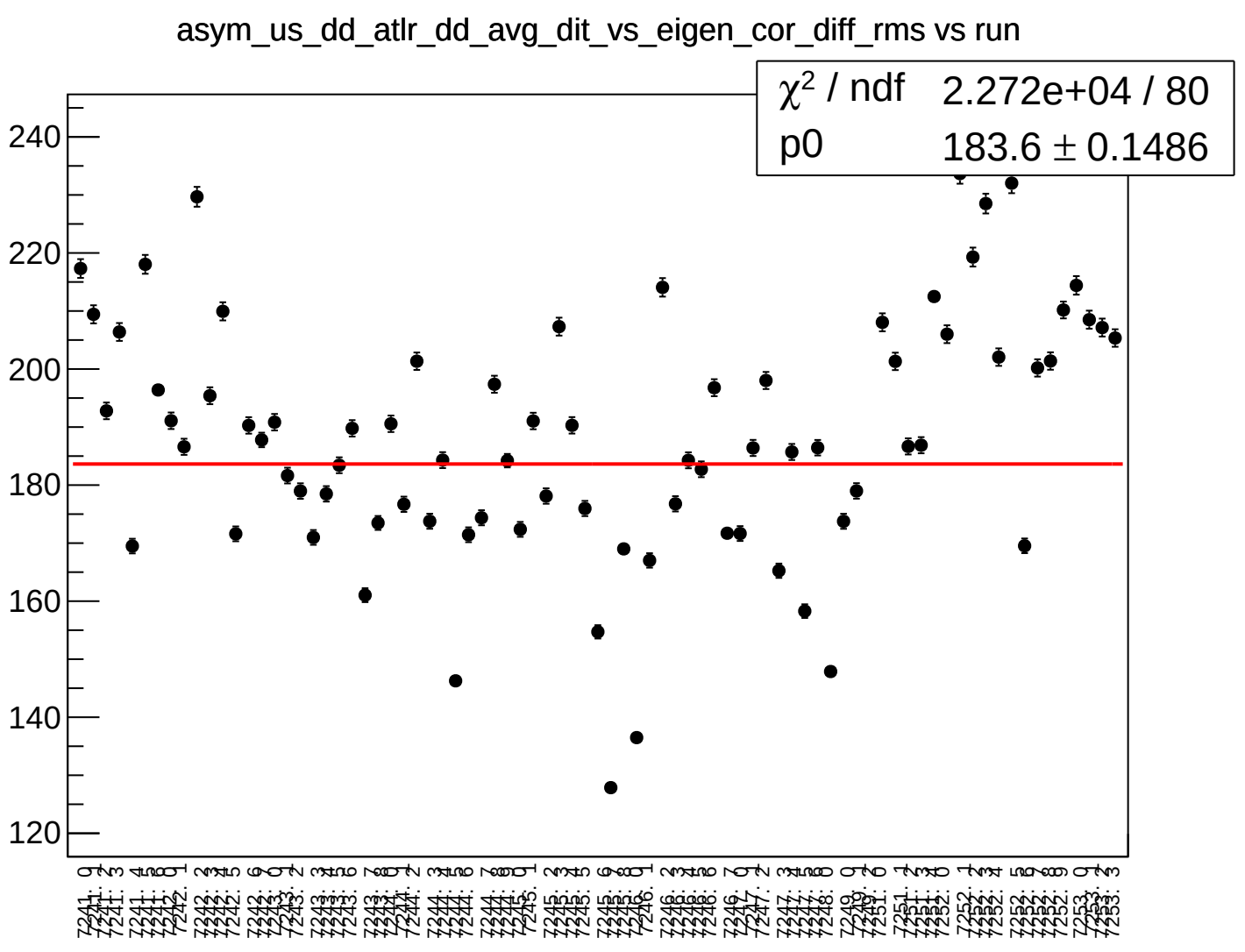

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 100.4 / 80
p0 0.1071± 0.2102
pull
Entries 81
Mean −47.01
Std Dev 0

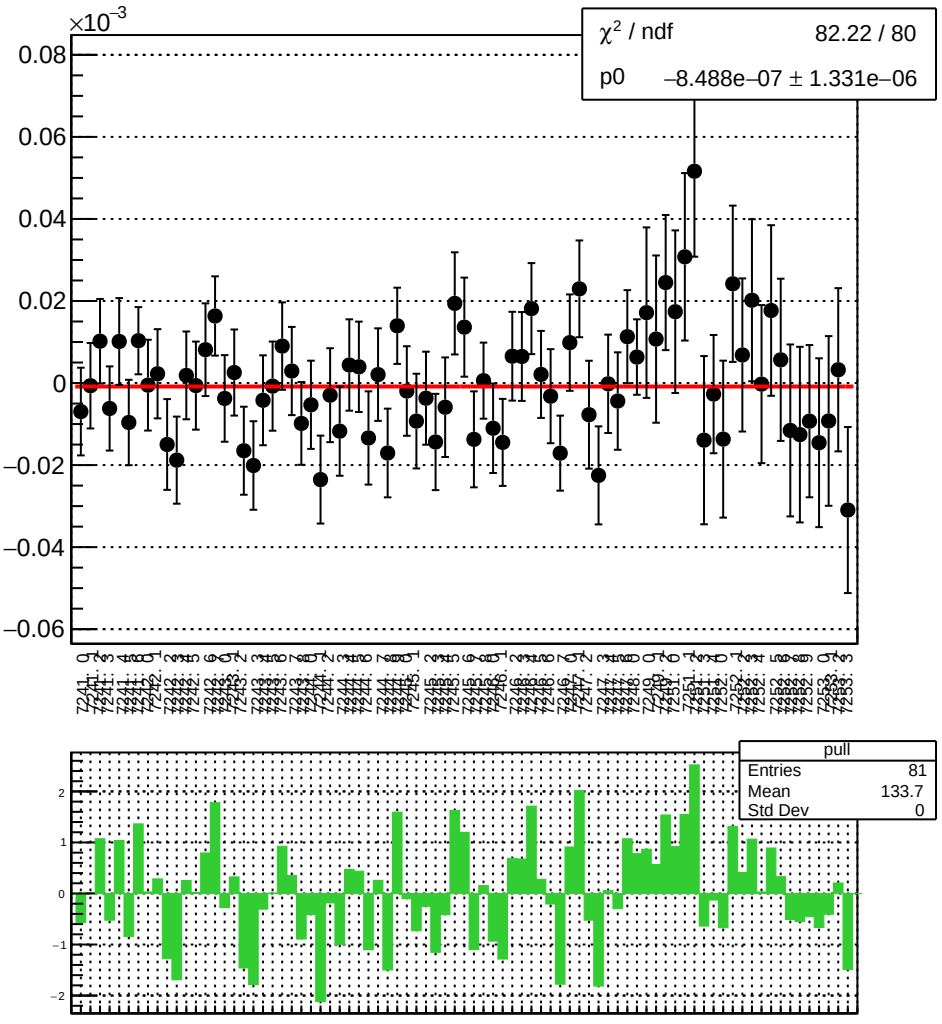

pull1D
Entries 81
Mean −0.03476
Std Dev 1.113

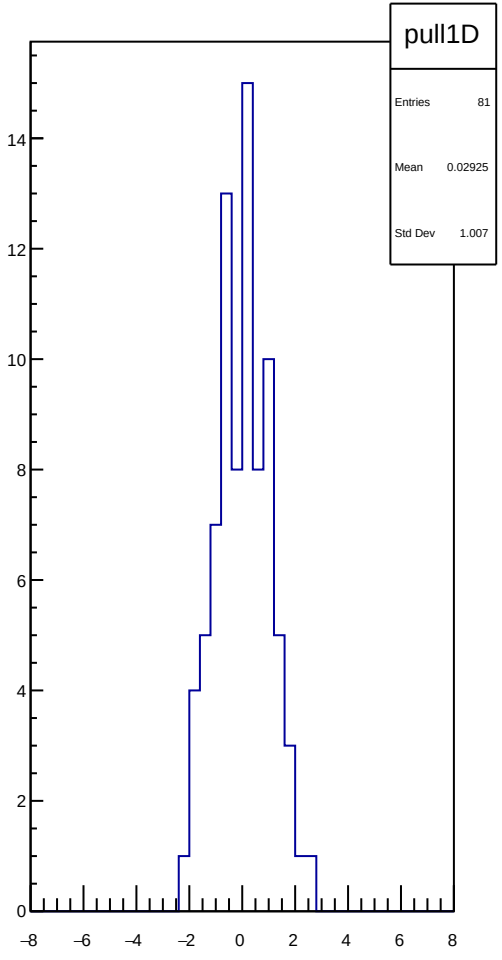

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.272e+04 / 80
p0 183.6 ± 0.1486
240
220
200
180
160
140
120

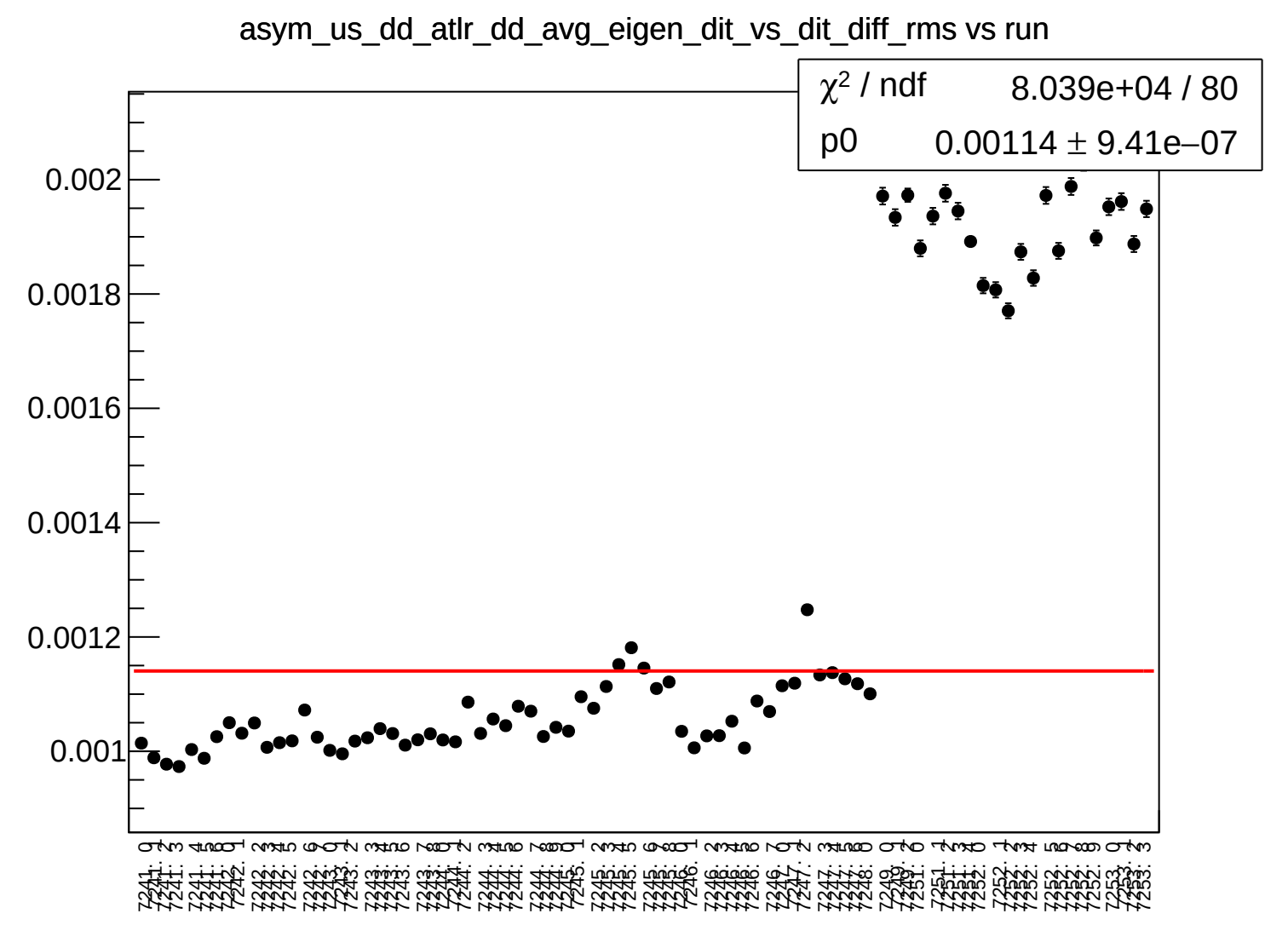

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.4 / 80
p0 0.1071± 0.2102
pull
Entries 81
Mean −47.01
Std Dev 0

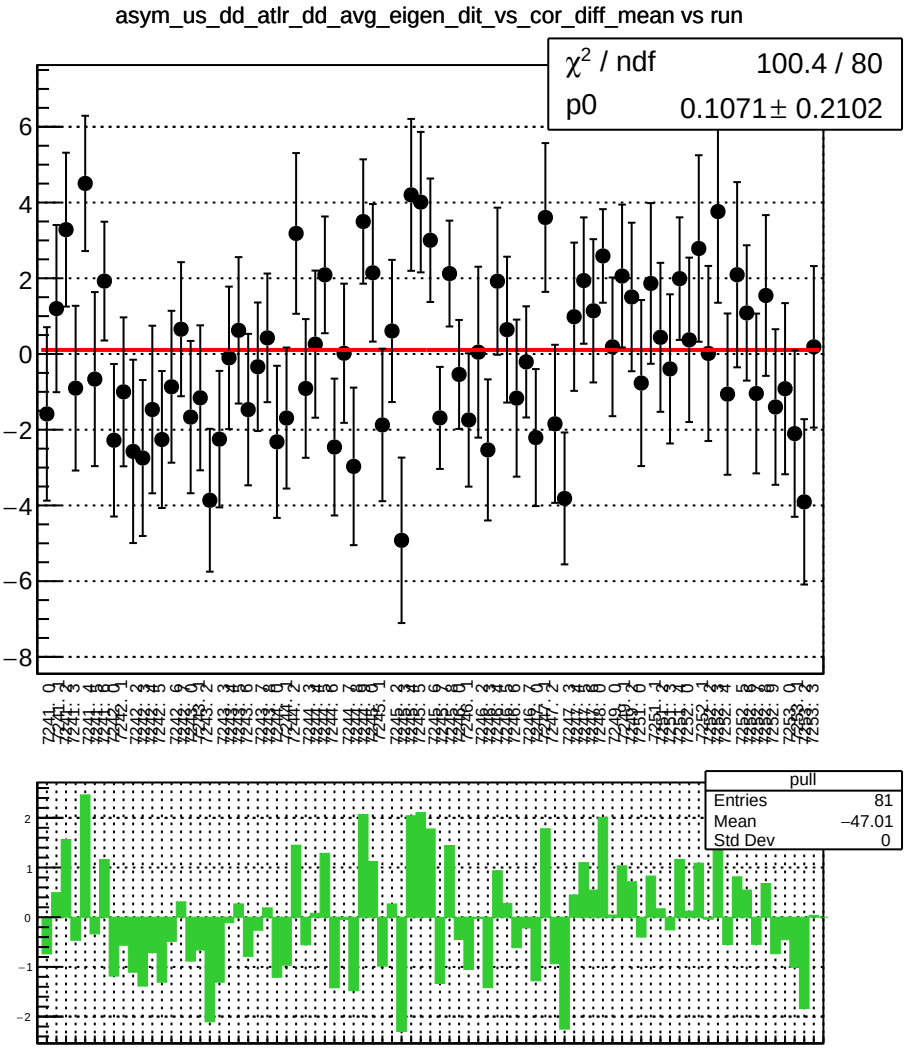

pull1D
Entries 81
Mean −0.03476
Std Dev 1.113

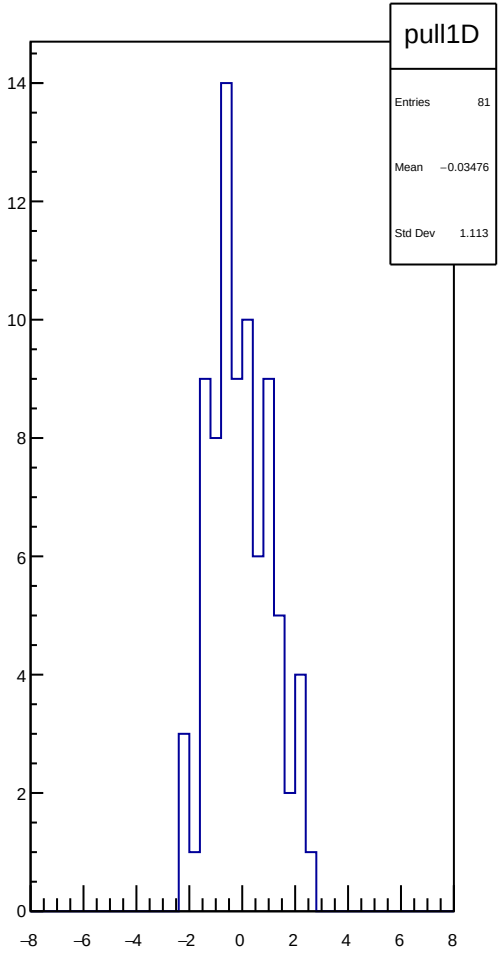

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.272e+04 / 80
p0 183.6 ± 0.1486
240
220
200
180
160
140
120

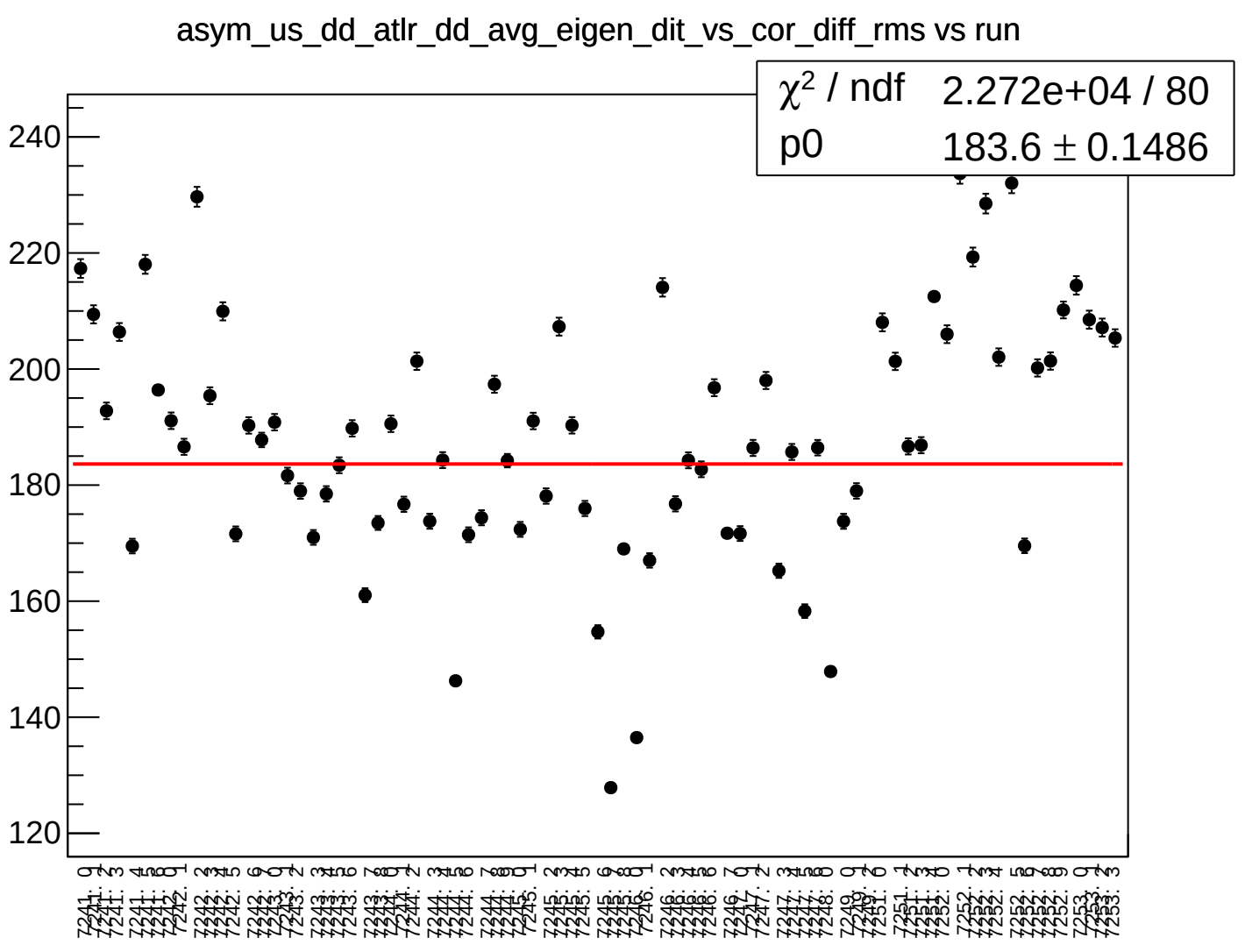

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.22 / 80
p0 −8.488e−07 ± 1.331e−06
pull
Entries 81
Mean 133.7
Std Dev 0

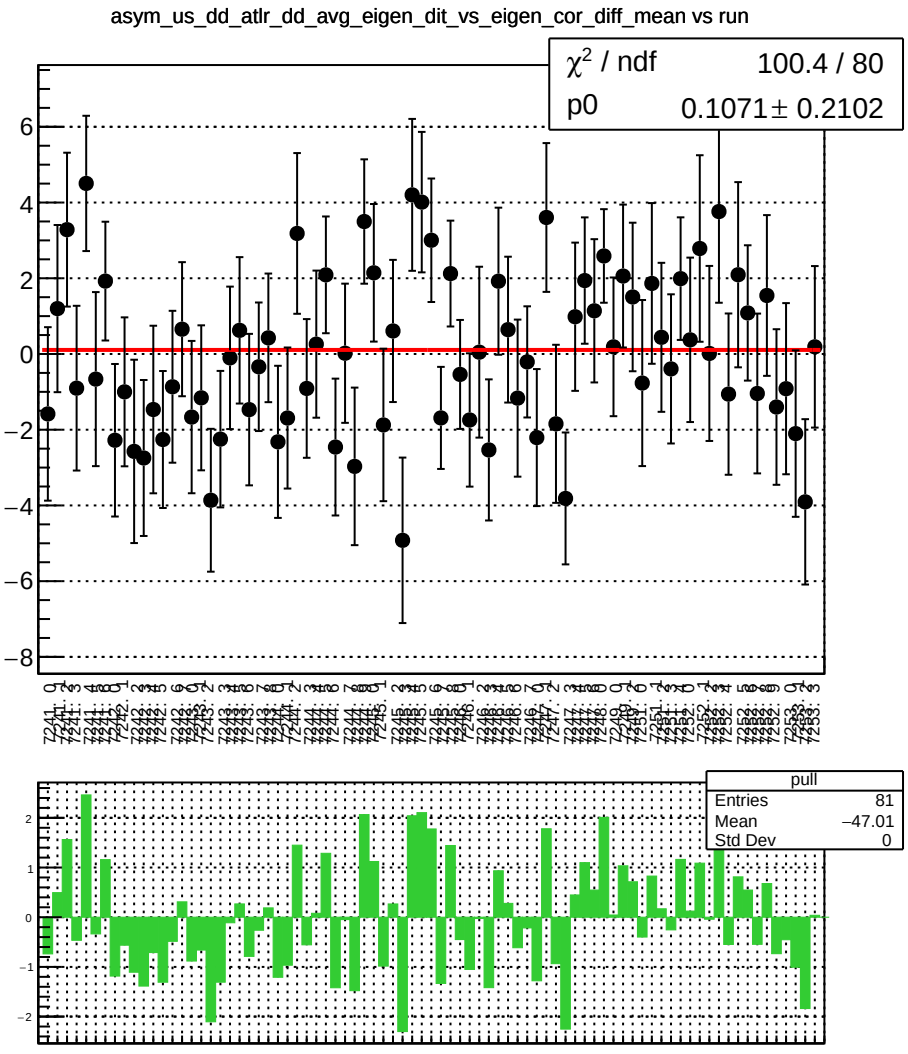

pull1D
Entries 81
Mean 0.02925
Std Dev 1.007

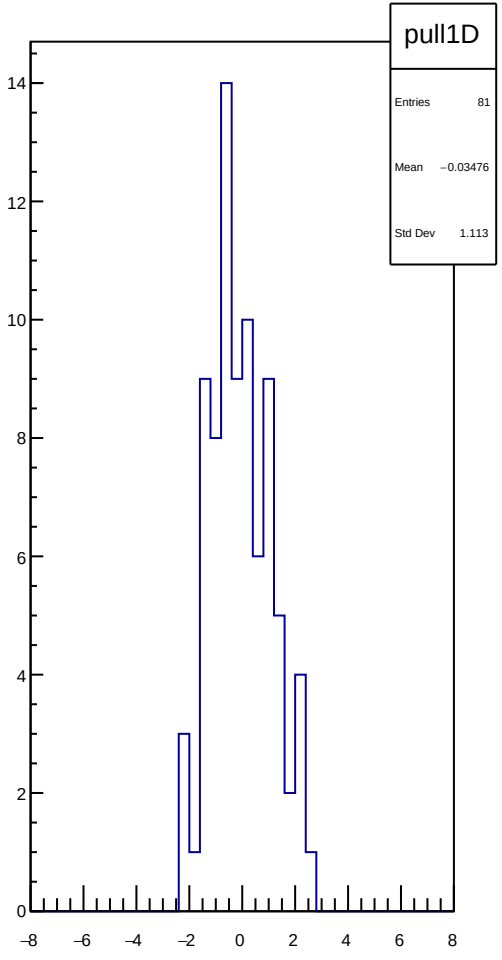

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.039e+04 / 80
p0 0.00114 ± 9.41e−07
0.002
0.0018
0.0016
0.0014
0.0012
0.001

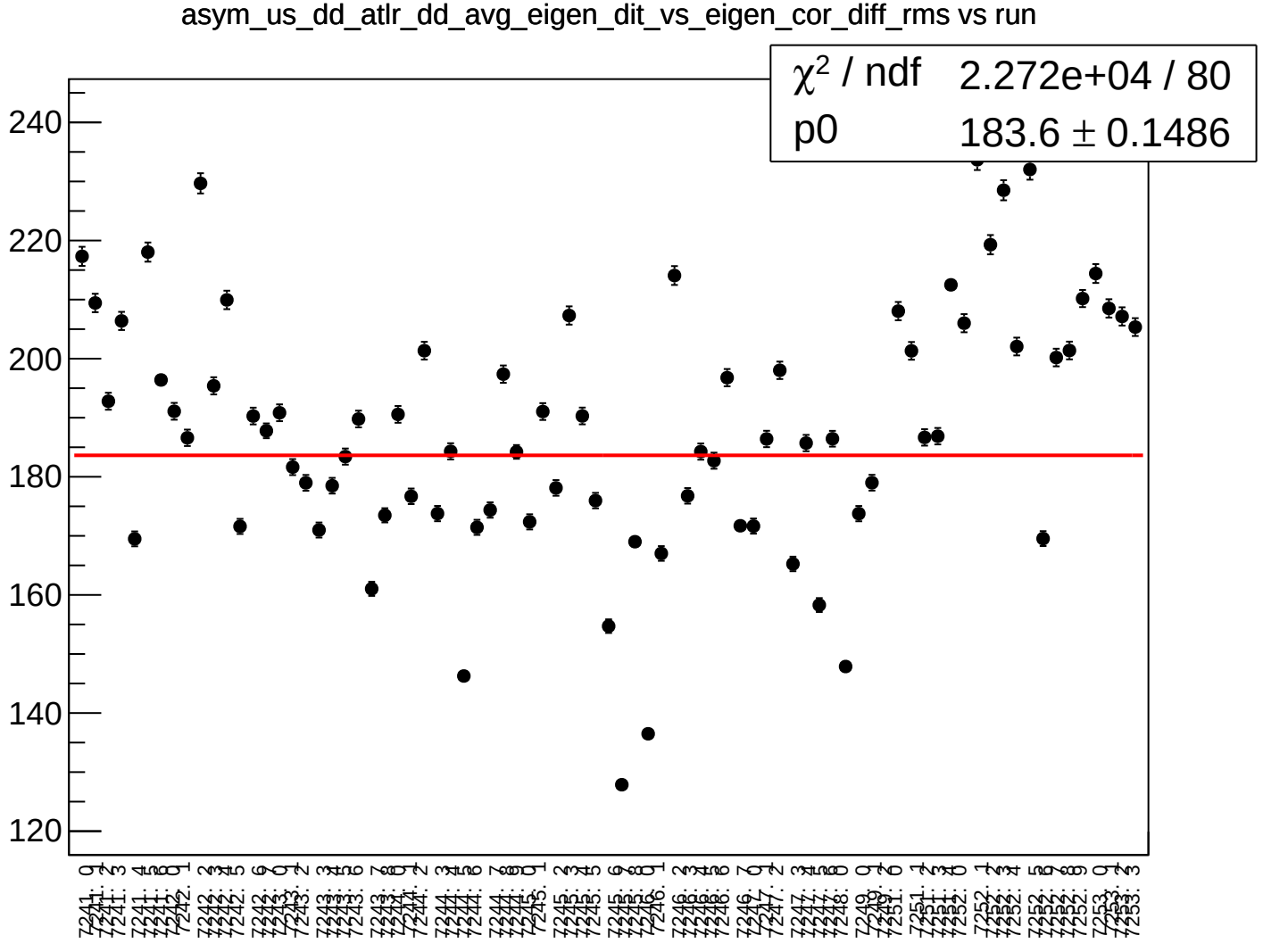

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.4 / 80
p0 0.1071± 0.2102
pull
Entries 81
Mean −47.01
Std Dev 0

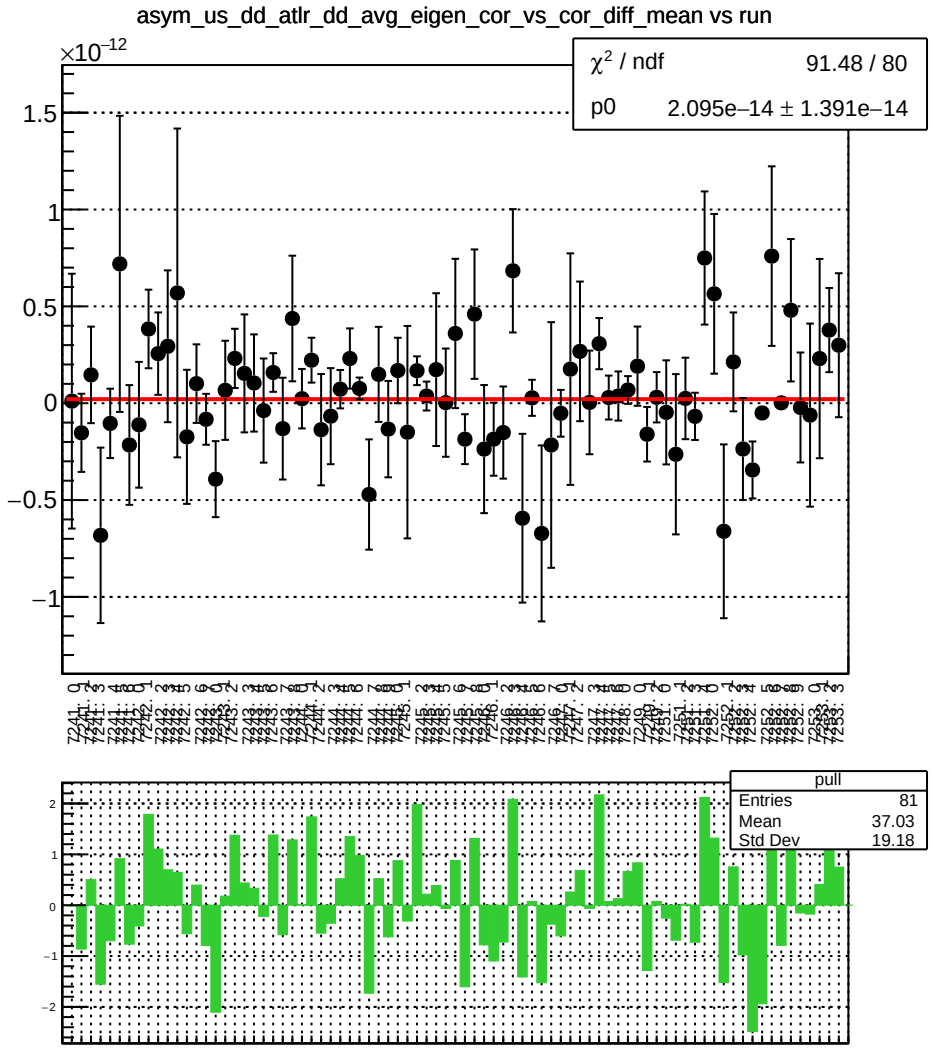

pull1D
Entries 81
Mean −0.03476
Std Dev 1.113

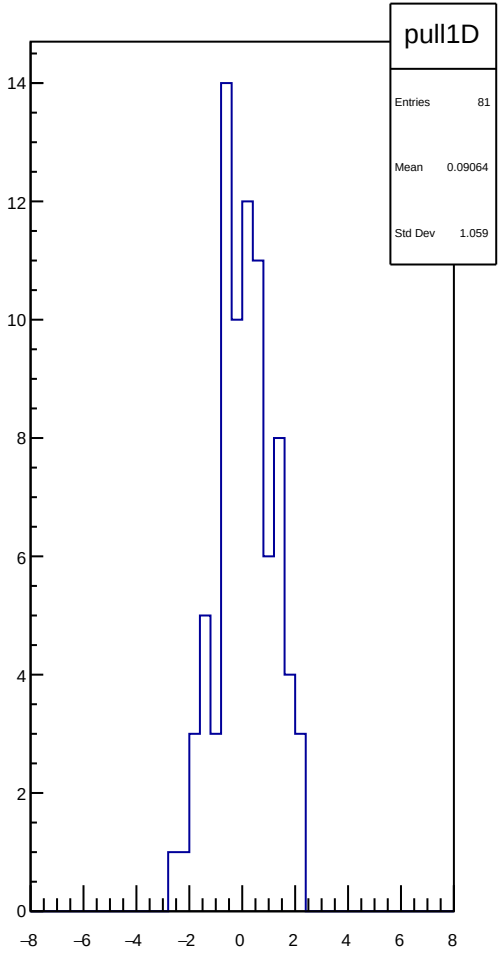

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.272e+04 / 80
p0 183.6 ± 0.1486
240
220
200
180
160
140
120

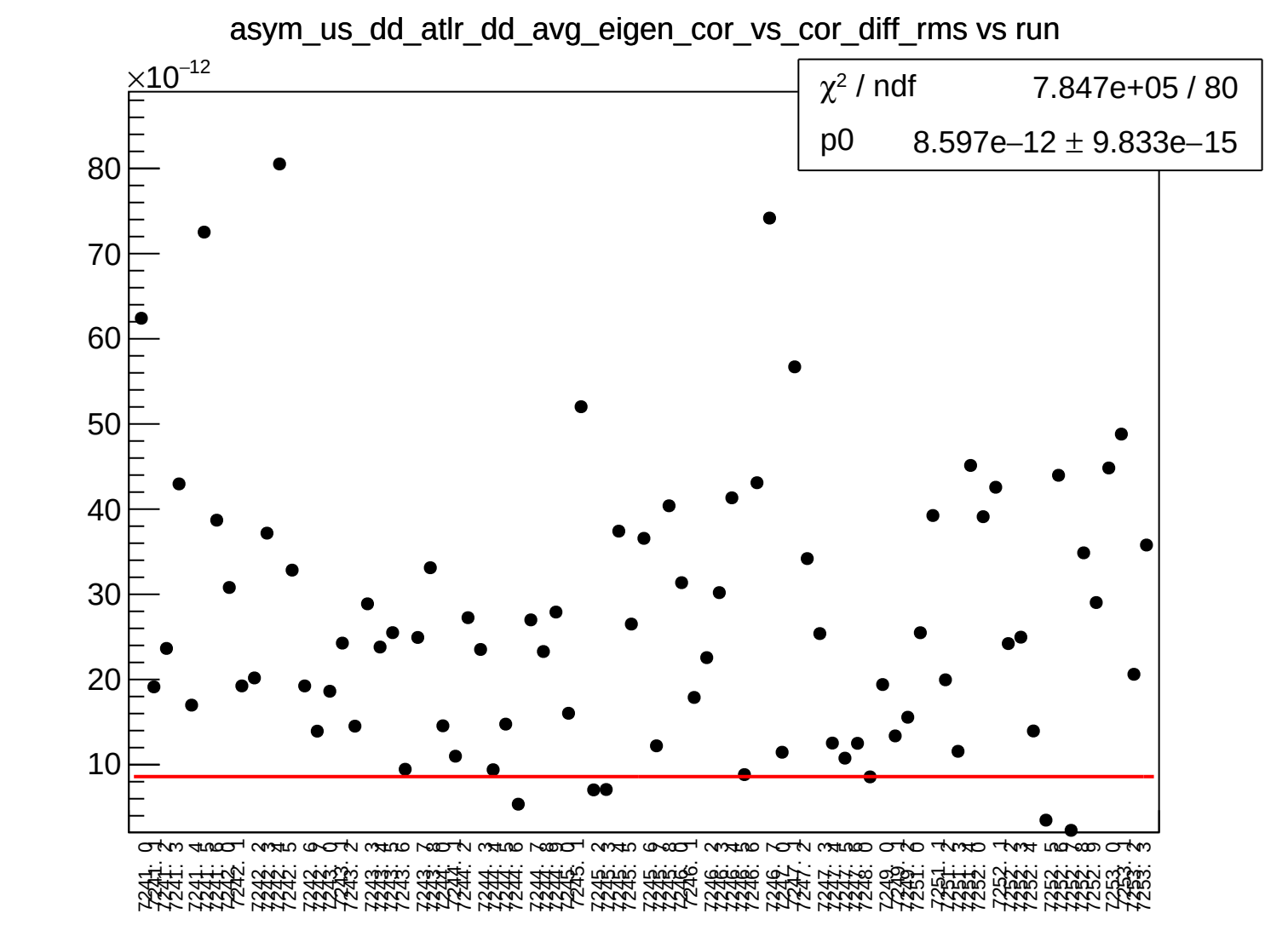

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.4 / 80
p0 0.1071± 0.2102
pull
Entries 81
Mean −47.01
Std Dev 0

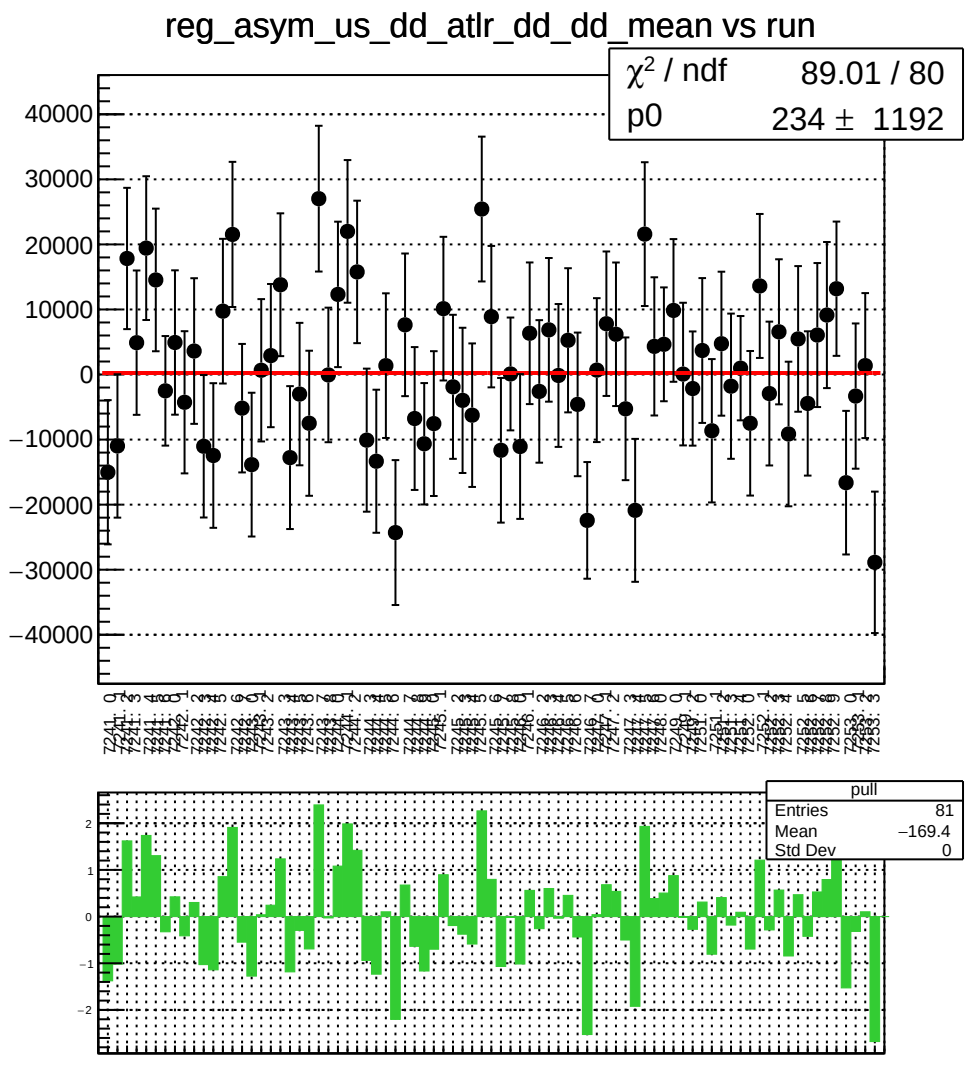

pull1D
Entries 81
Mean −0.03476
Std Dev 1.113

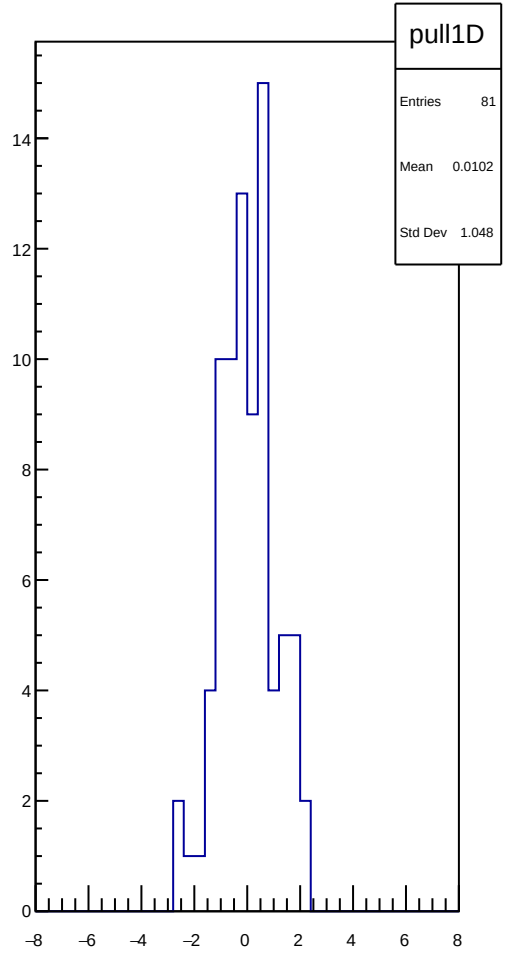

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.272e+04 / 80
p0 183.6 ± 0.1486
240
220
200
180
160
140
120

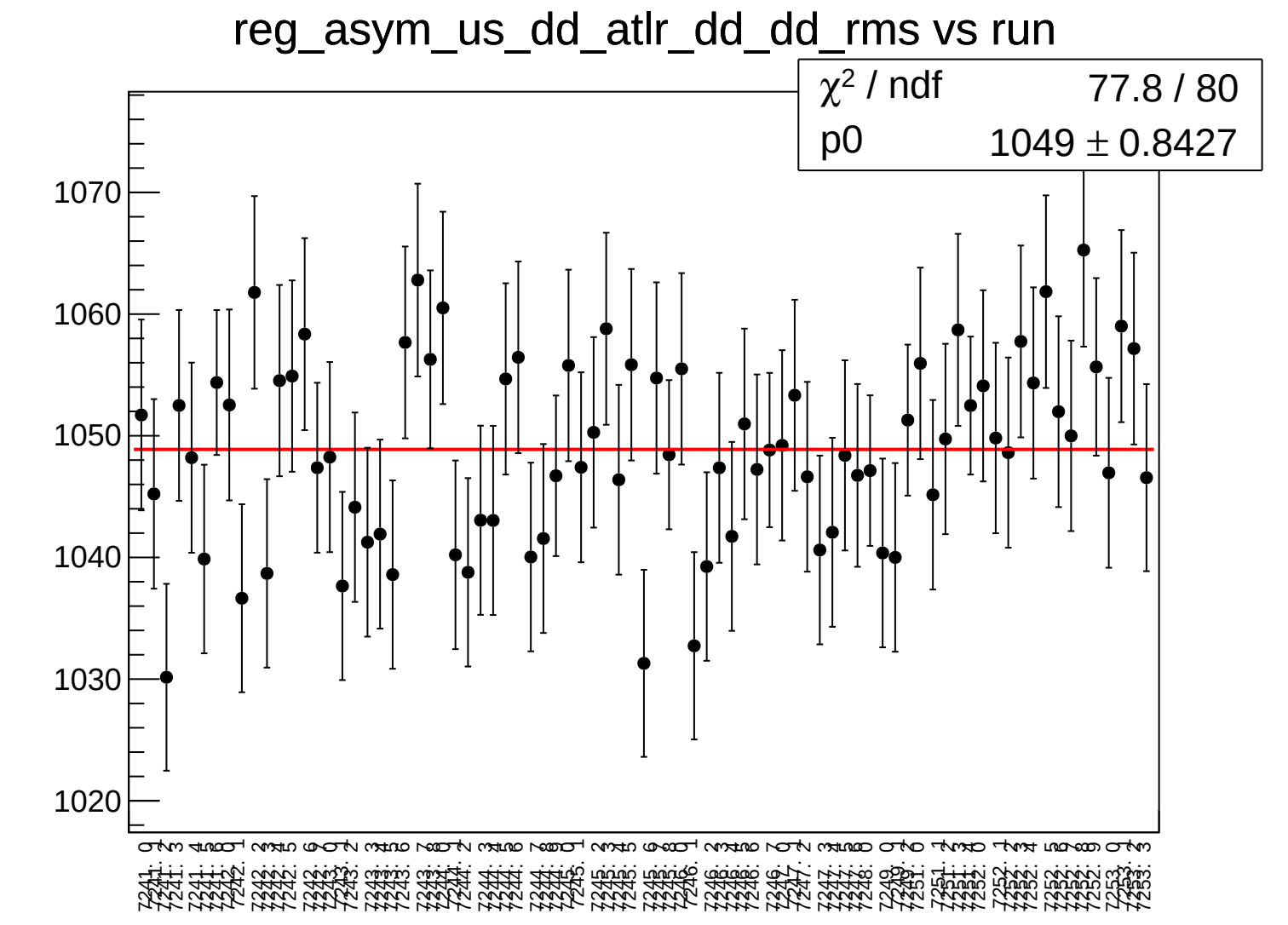

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.48 / 80
p0 2.095e−14 ± 1.391e−14
pull
Entries 81
Mean 37.03
Std Dev 19.18

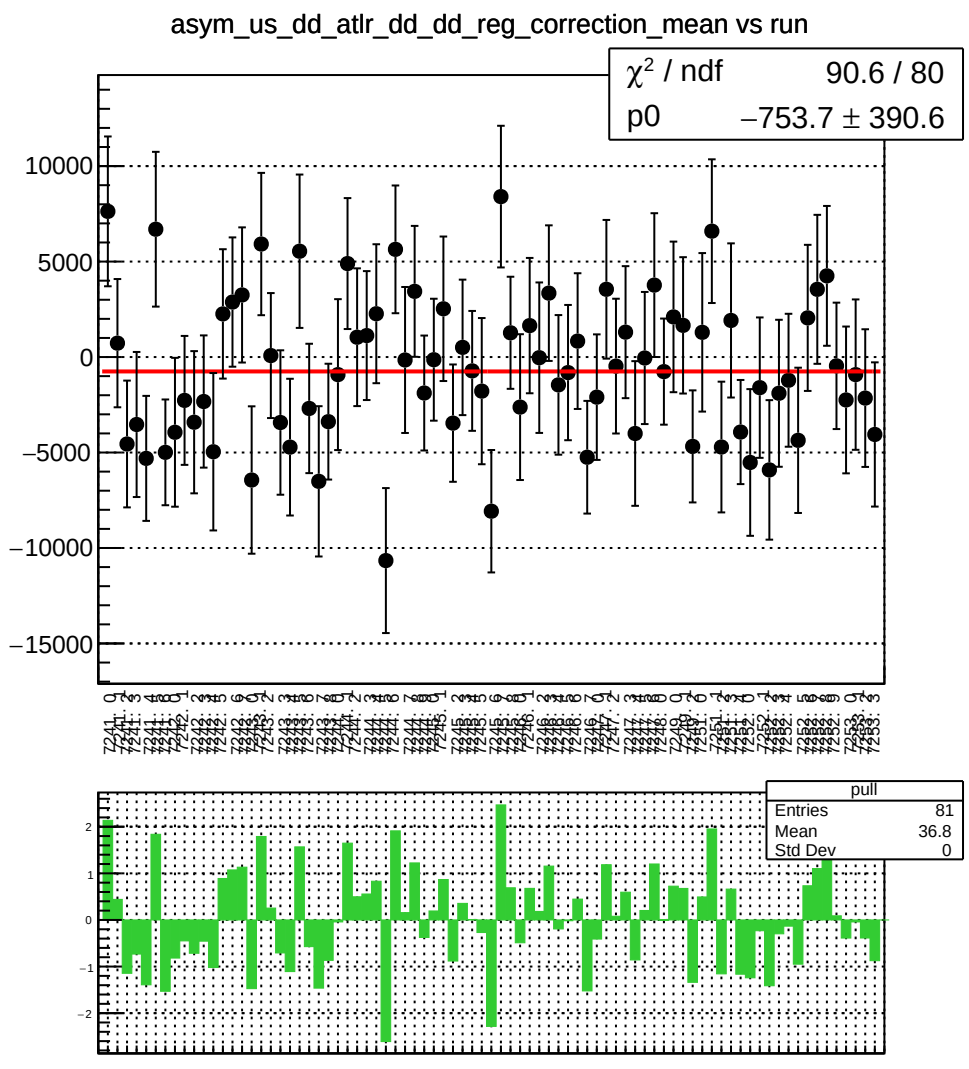

pull1D
Entries 81
Mean 0.09064
Std Dev 1.059

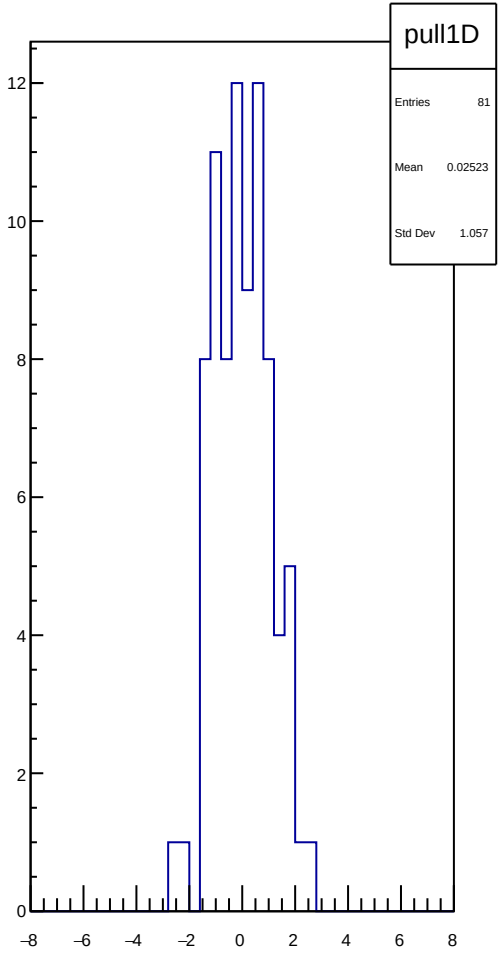

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.847e+05 / 80
p0 8.597e−12 ± 9.833e−15
80
70
60
50
40
30
20
10

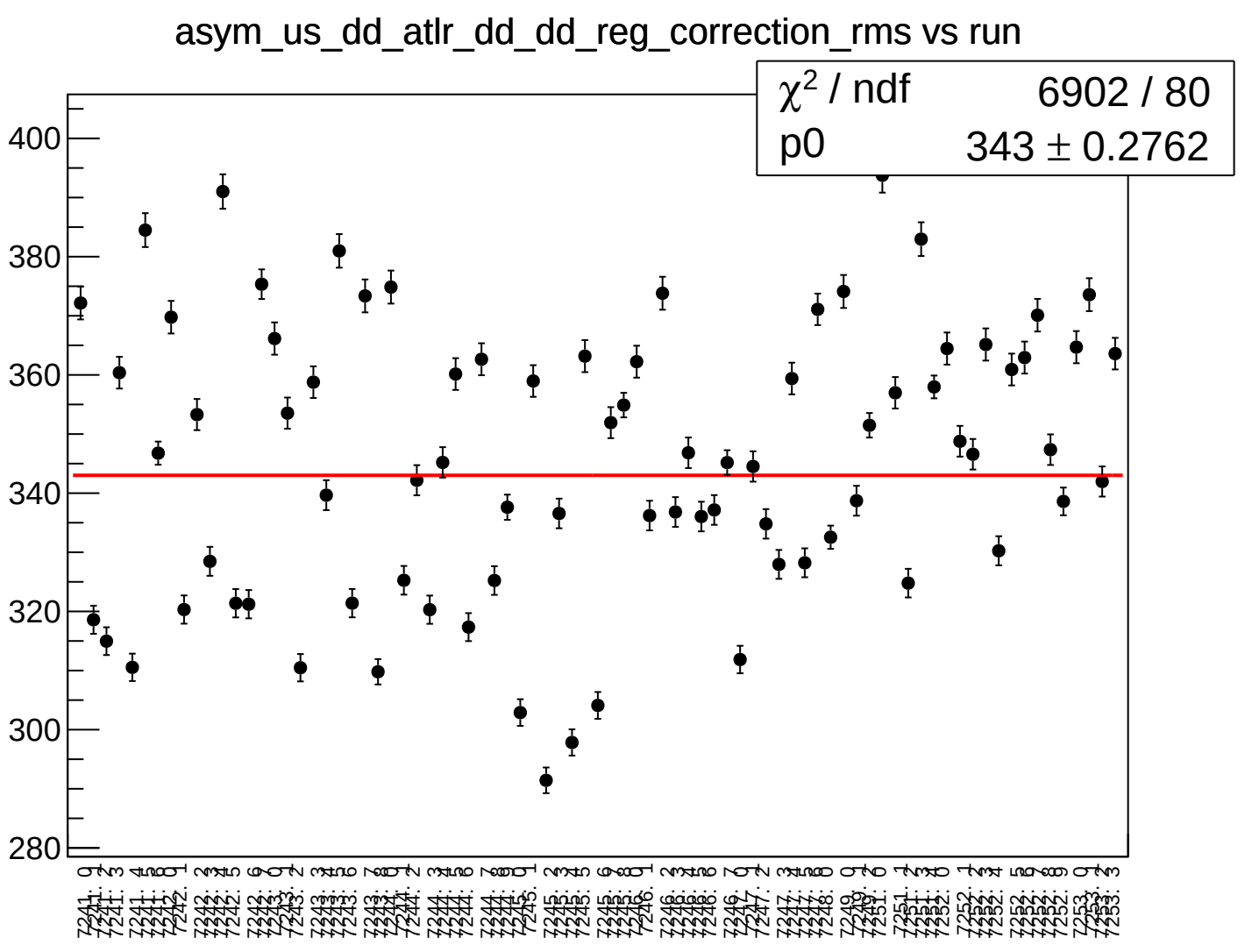

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 89.01 / 80
p0 234 ± 1192
pull
Entries 81
Mean −169.4
Std Dev 0

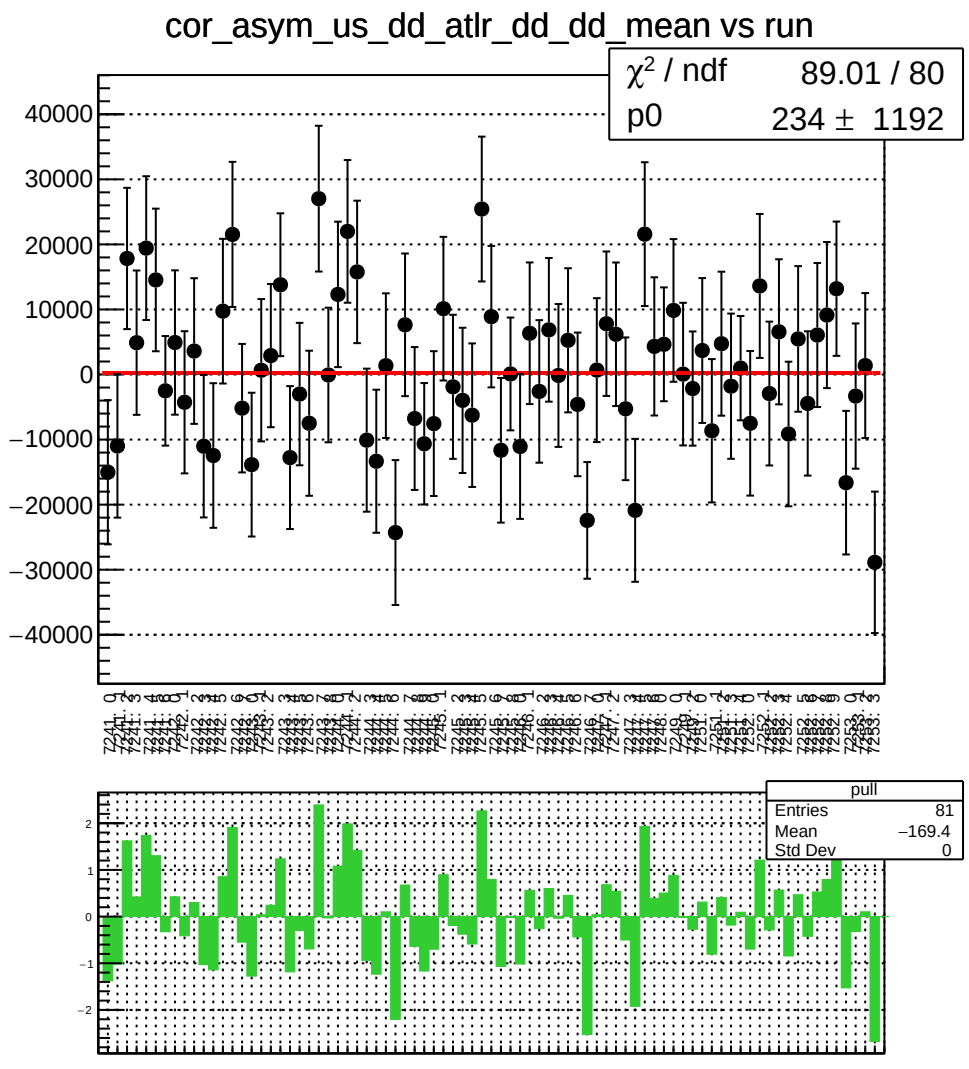

pull1D
Entries 81
Mean 0.0102
Std Dev 1.048

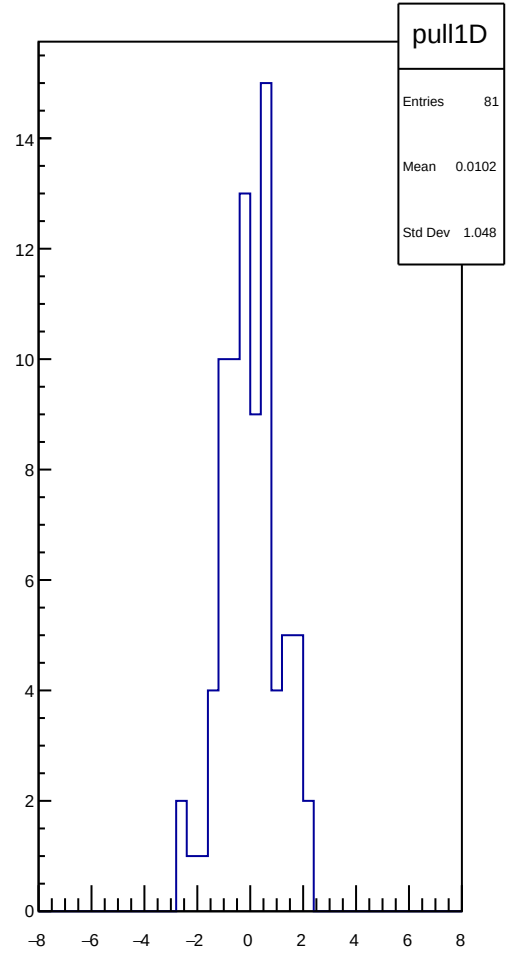

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 77.8 / 80
p0 1049 ± 0.8427
1070
1060
1050
1040
1030
1020

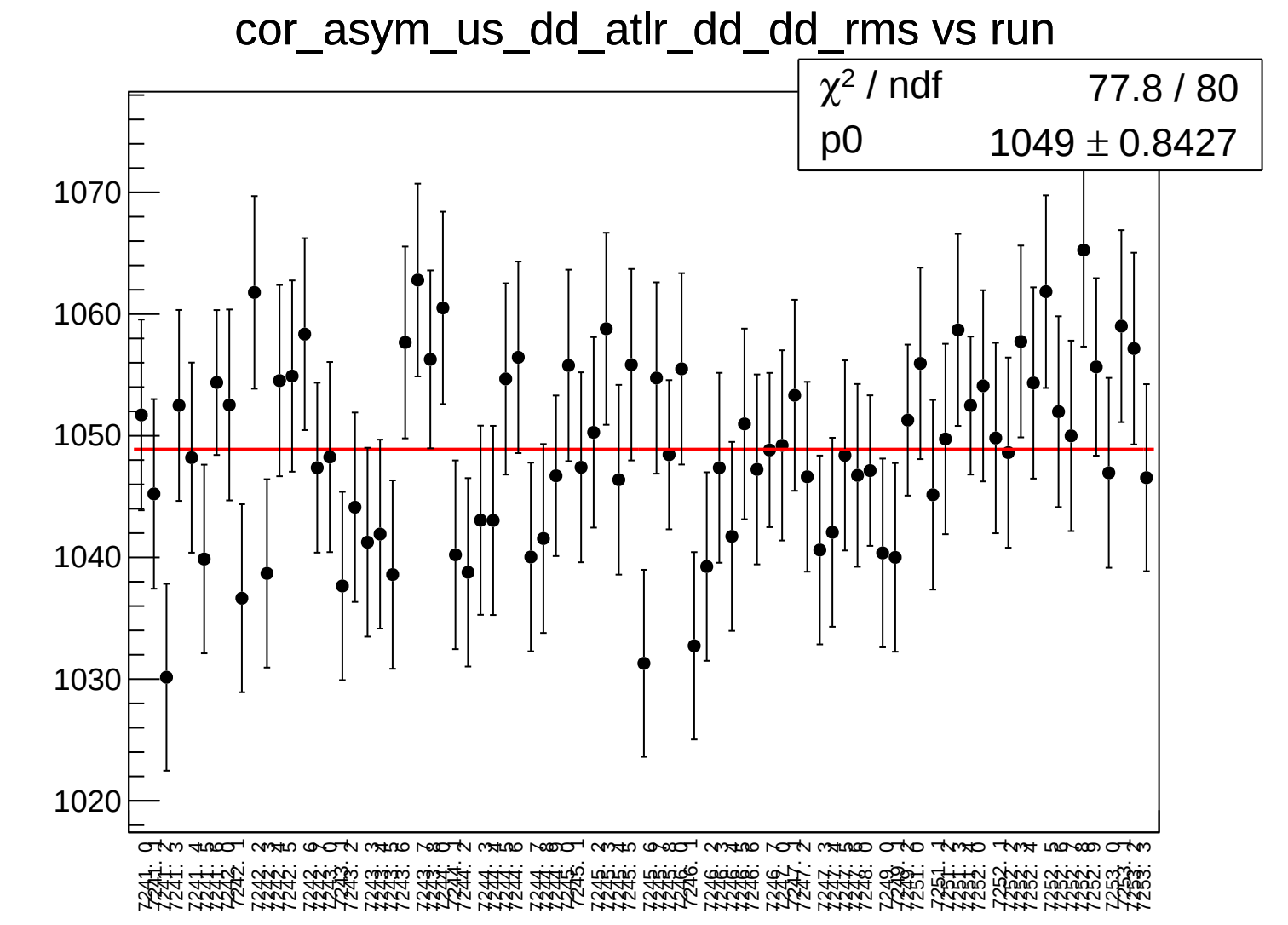

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 90.6 / 80
p0 −753.7 ± 390.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean 36.8
Std Dev 0
2
1
0
−1
−2

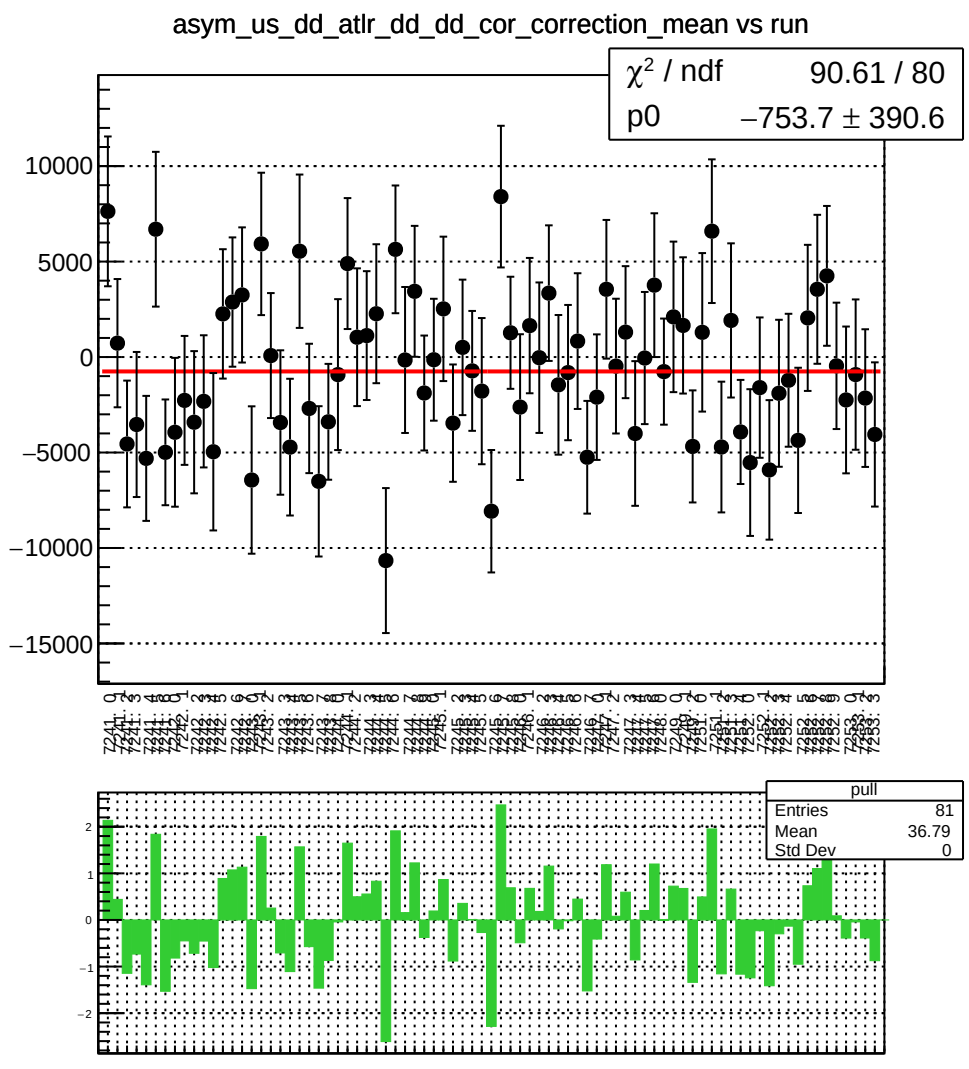

pull1D
Entries 81
Mean 0.02523
Std Dev 1.057
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

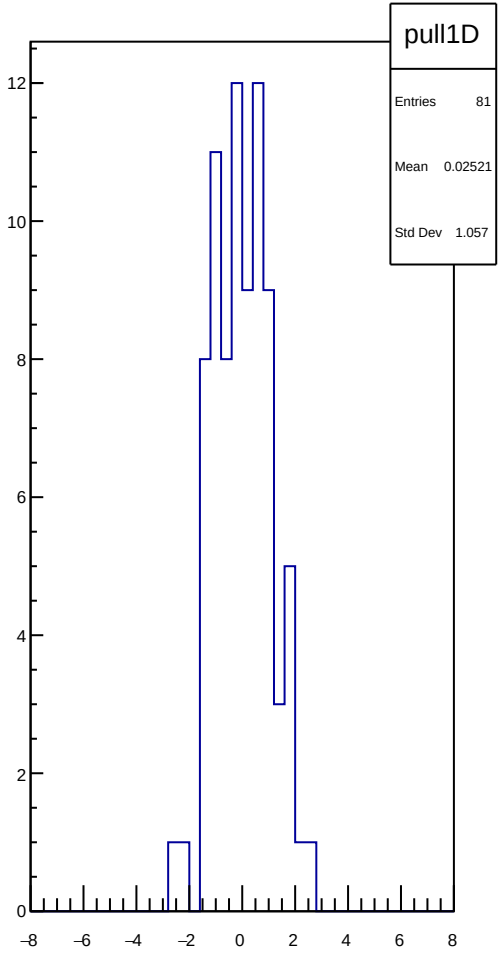

asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 6902 / 80
p0 343 ± 0.2762
400
380
360
340
320
300
280

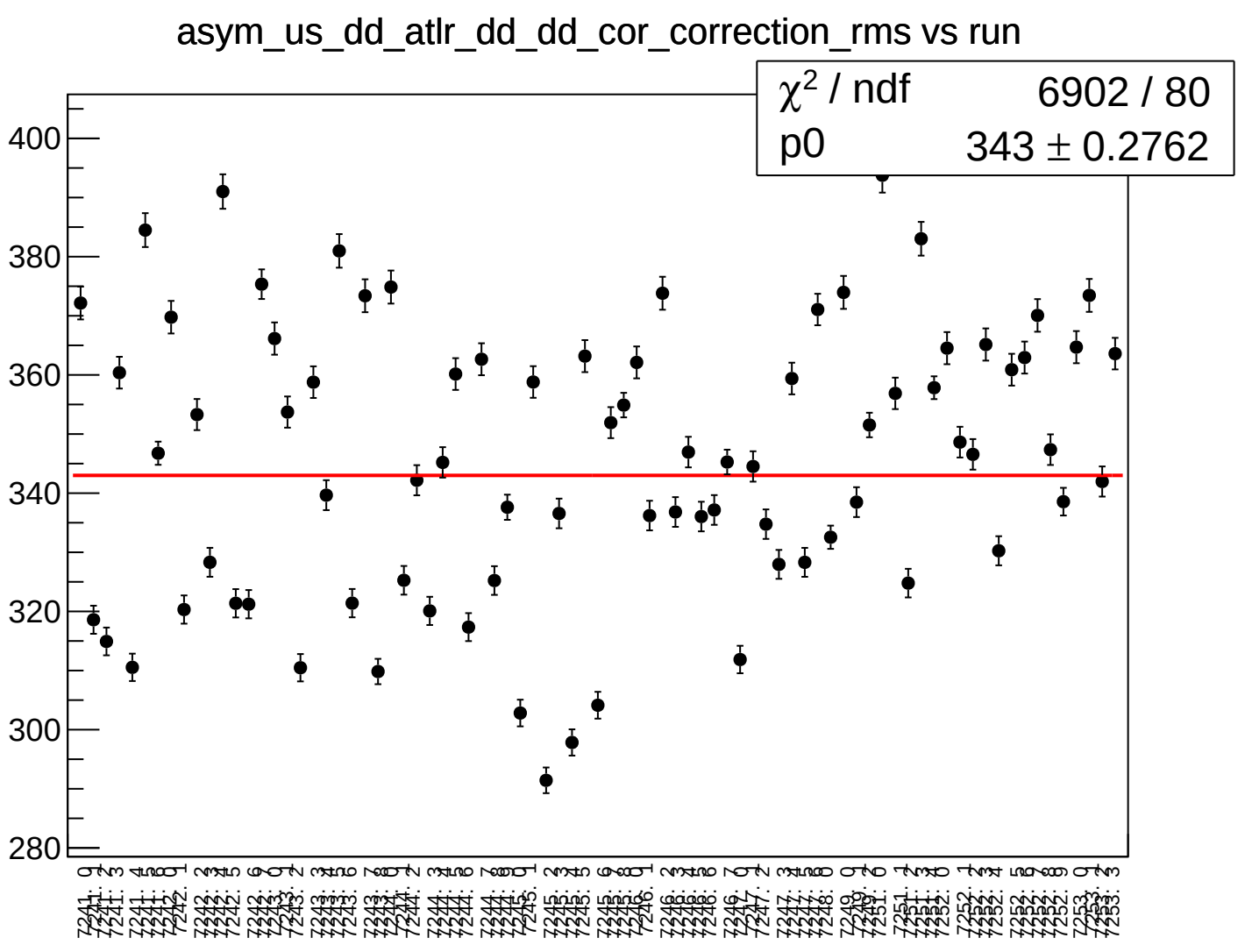

cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 89.01 / 80
p0 234 ± 1192
pull
Entries 81
Mean −169.4
Std Dev 0

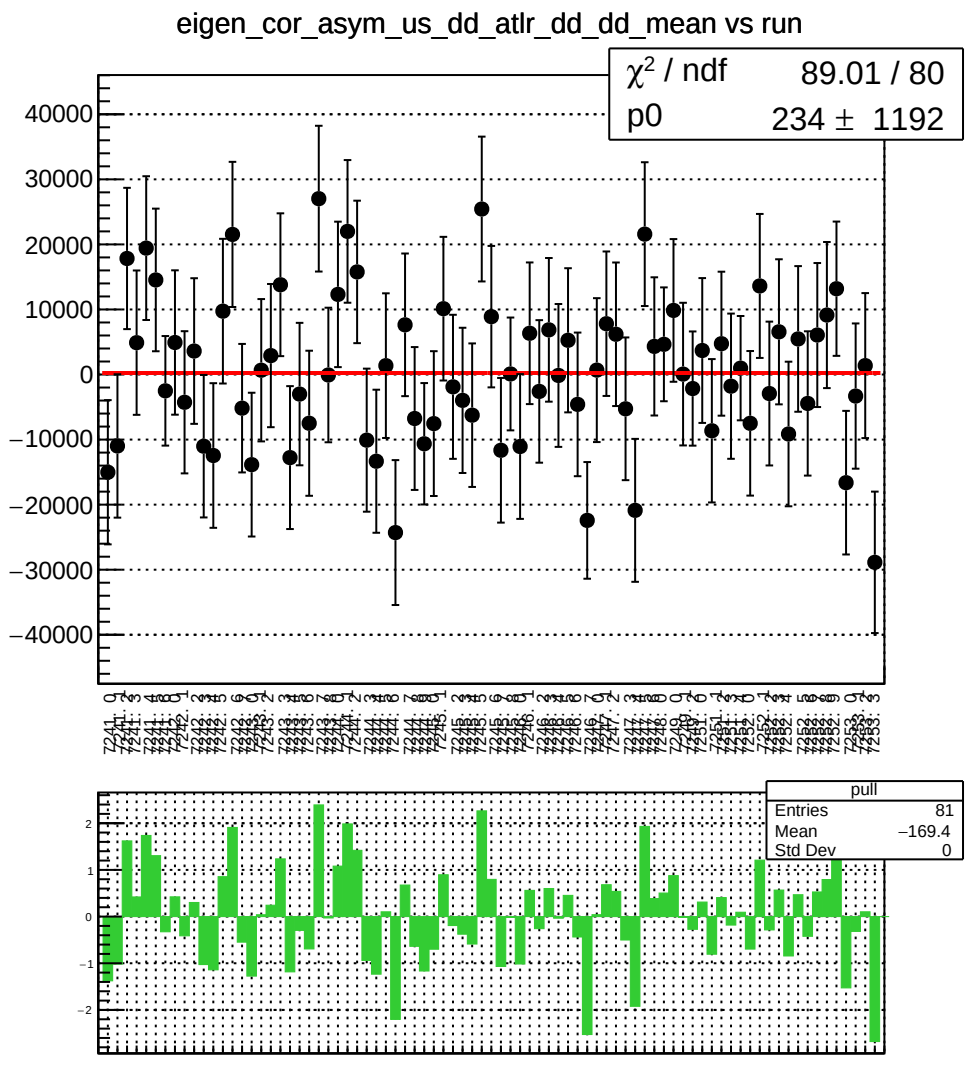

pull1D
Entries 81
Mean 0.0102
Std Dev 1.048

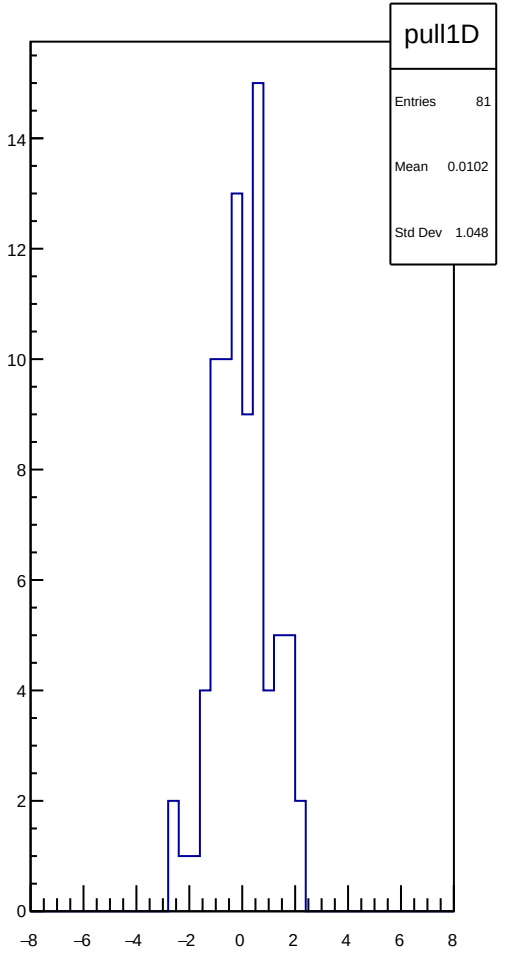

cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 77.8 / 80
p0 1049 ± 0.8427
1070
1060
1050
1040
1030
1020

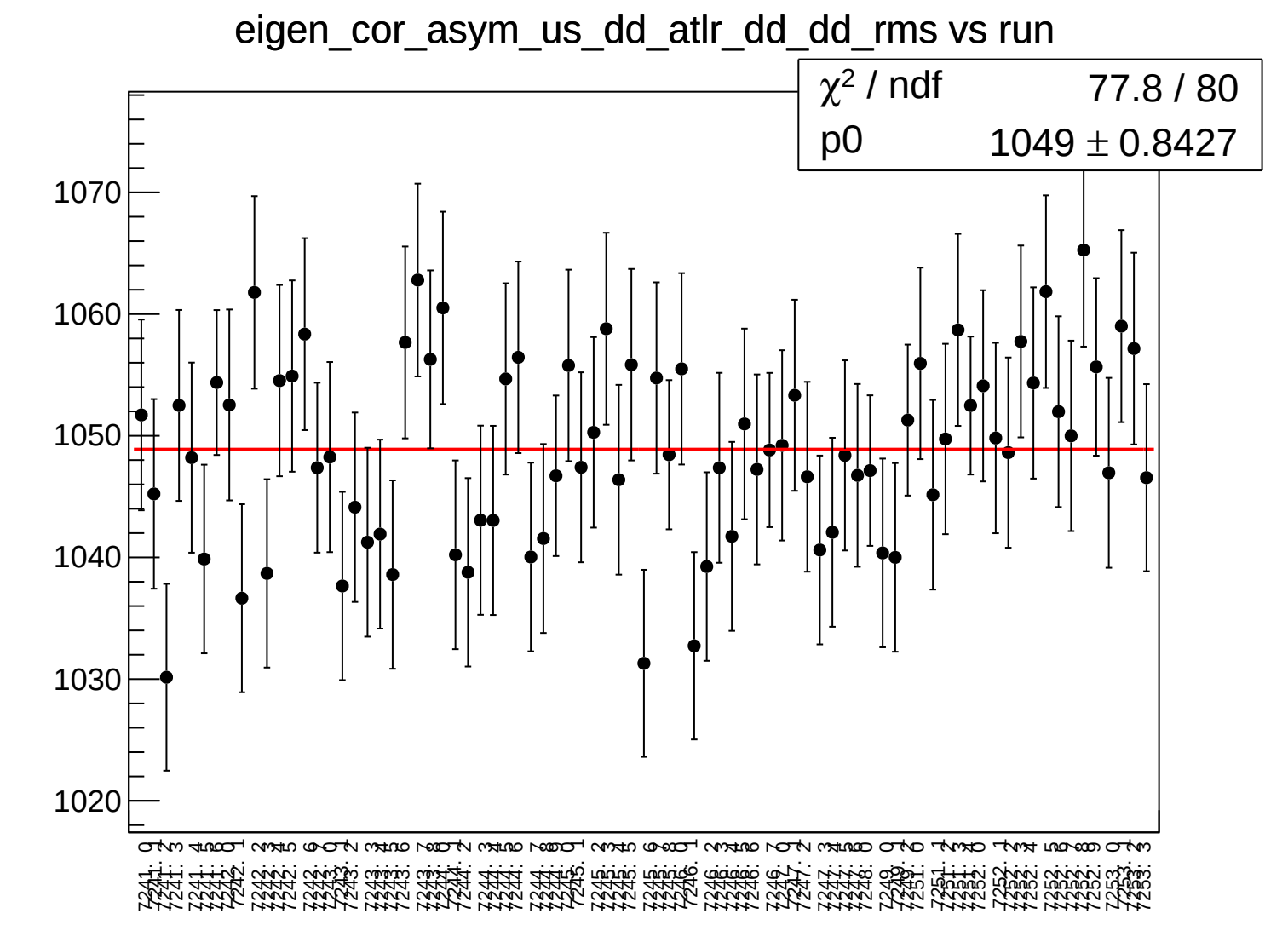

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 90.61 / 80
p0 −753.7 ± 390.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean 36.79
Std Dev 0
2
1
0
−1
−2

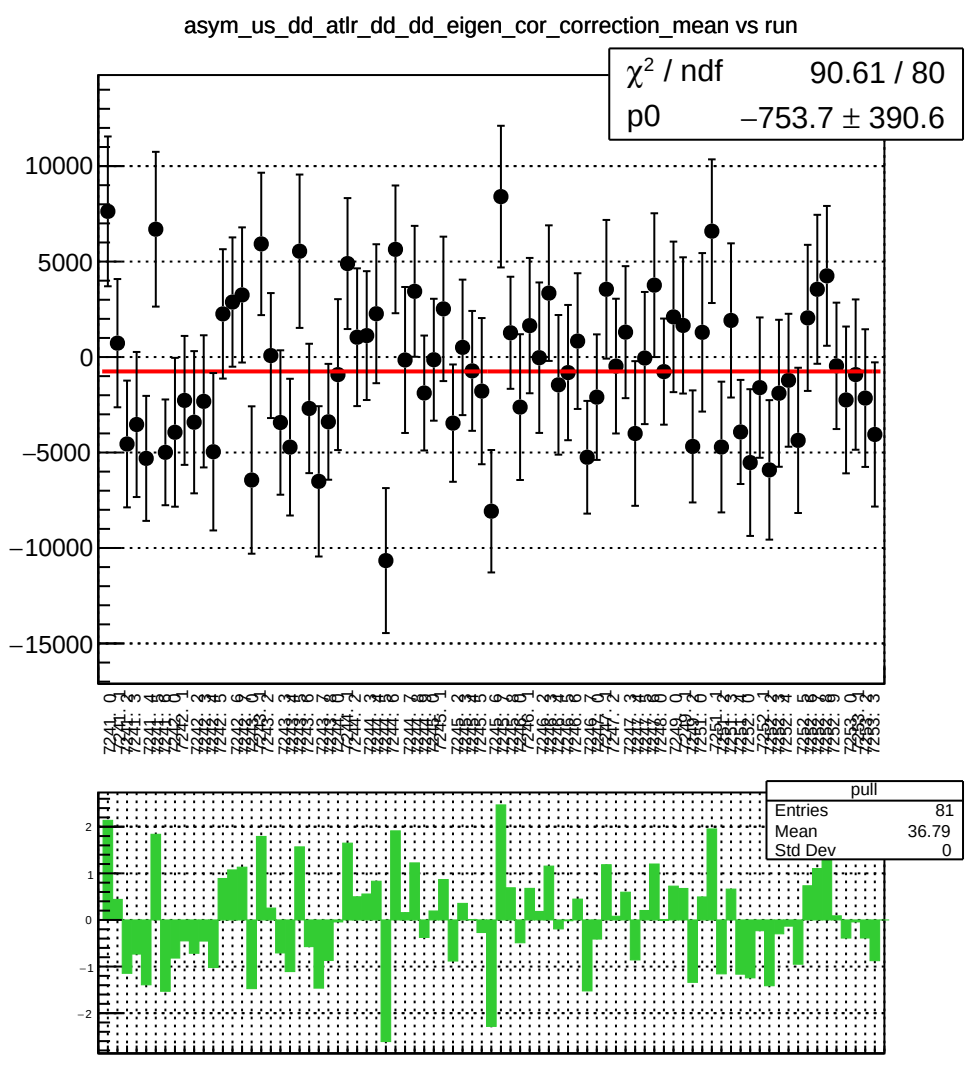

pull1D
Entries 81
Mean 0.02521
Std Dev 1.057
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

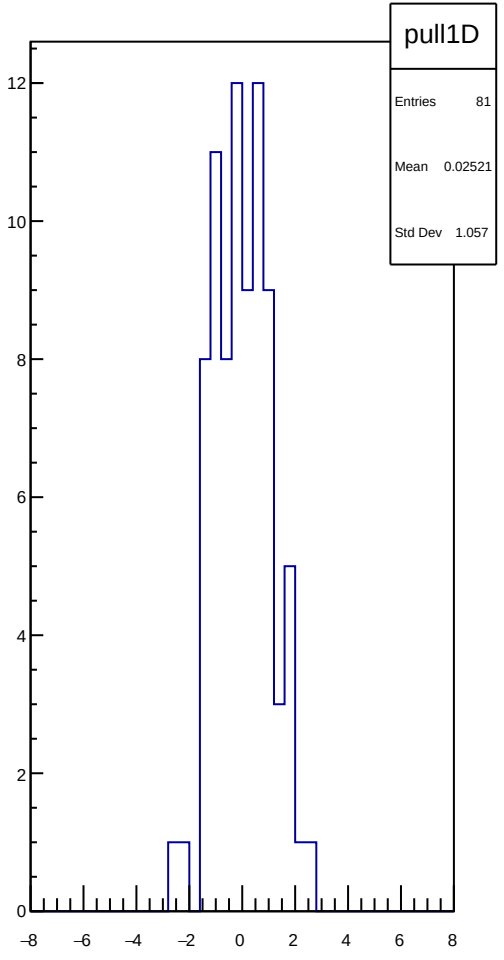

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 6902 / 80
p0 343 ± 0.2762
400
380
360
340
320
300
280

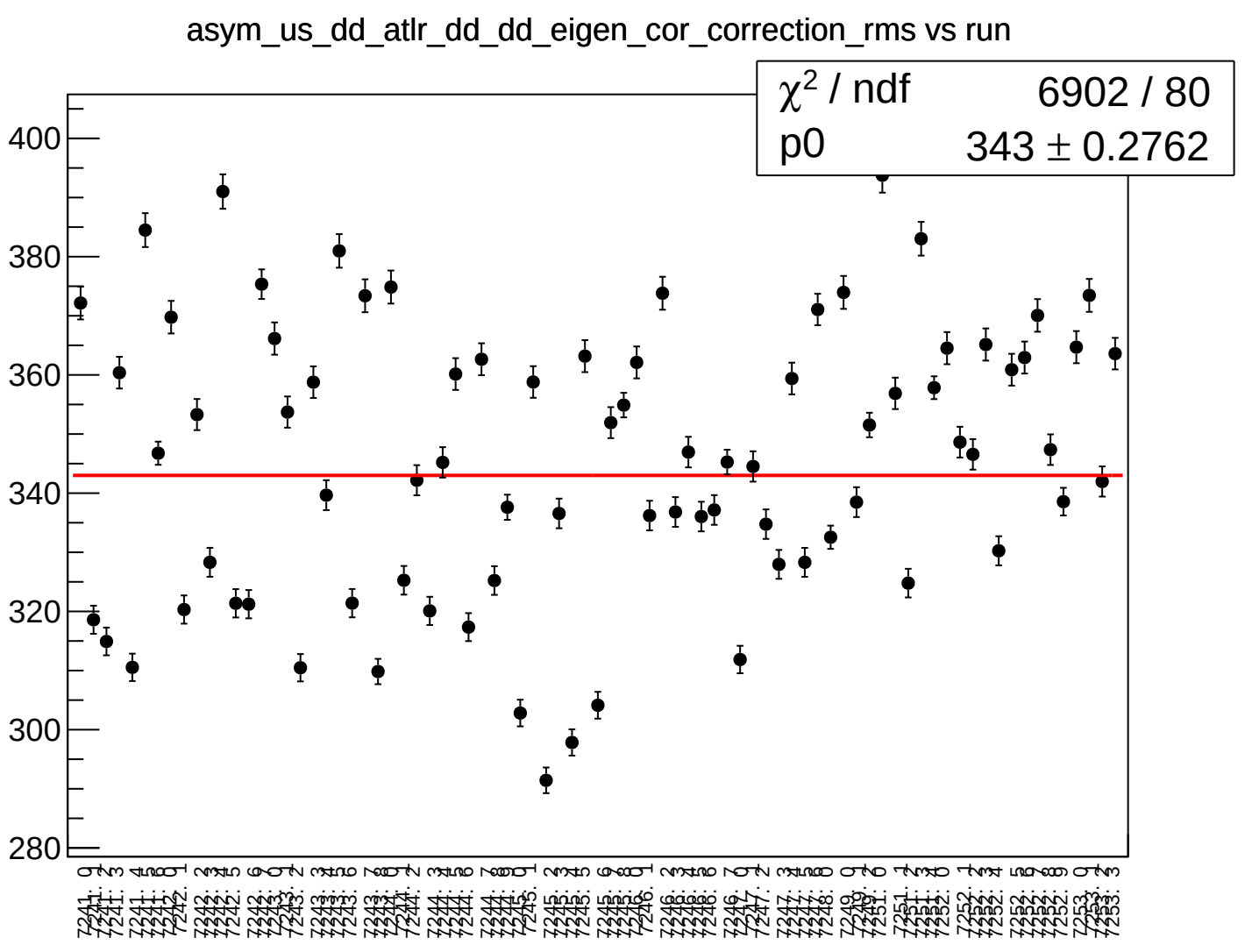

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 89.01 / 80
p0 234 ± 1192
pull
Entries 81
Mean −169.4
Std Dev 0

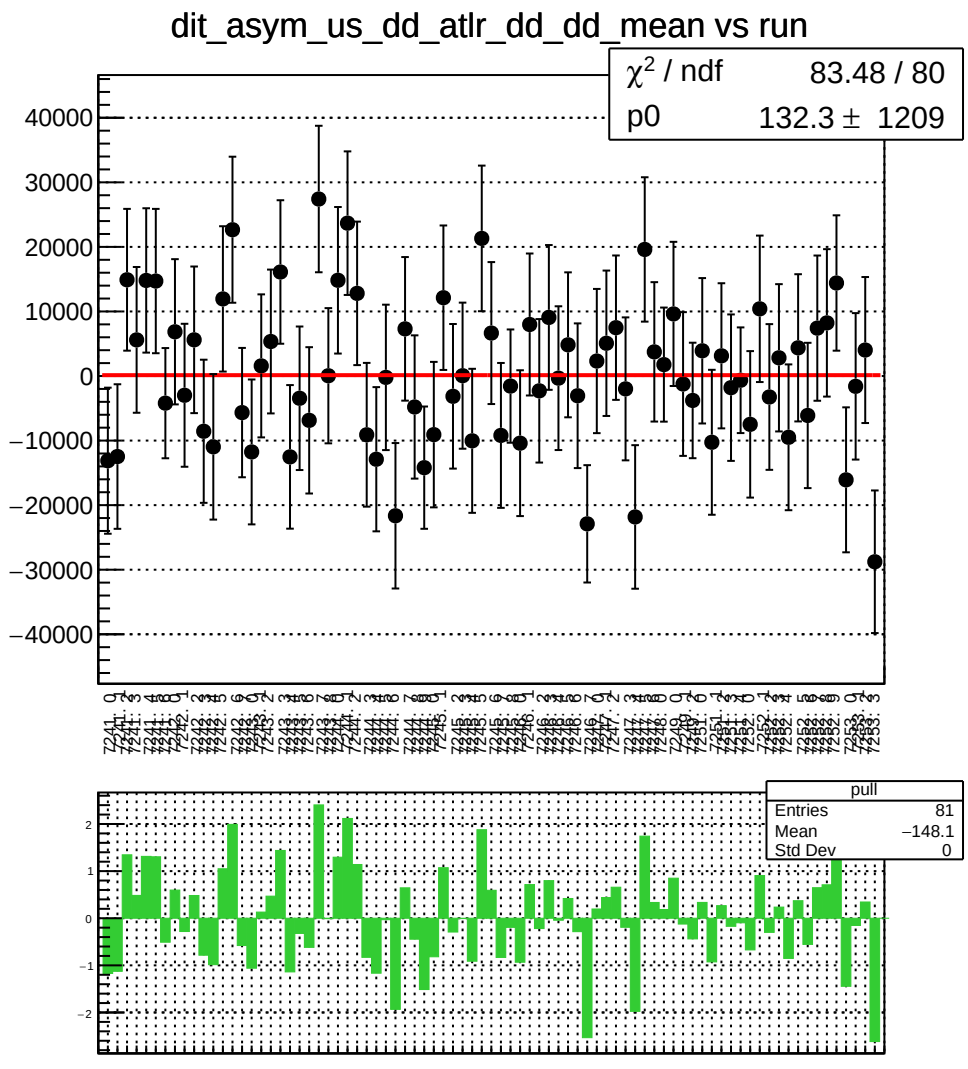

pull1D
Entries 81
Mean 0.0102
Std Dev 1.048

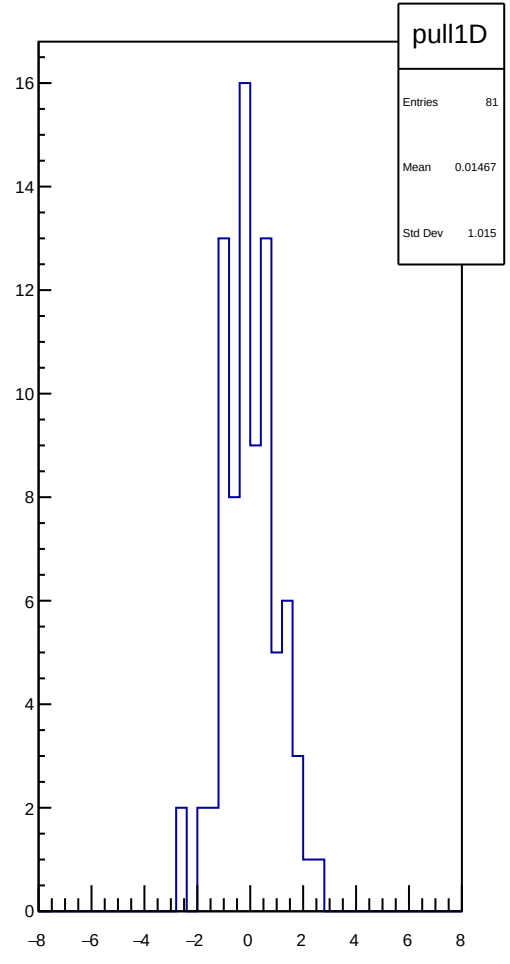

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 77.8 / 80
p0 1049 ± 0.8427
1070
1060
1050
1040
1030
1020

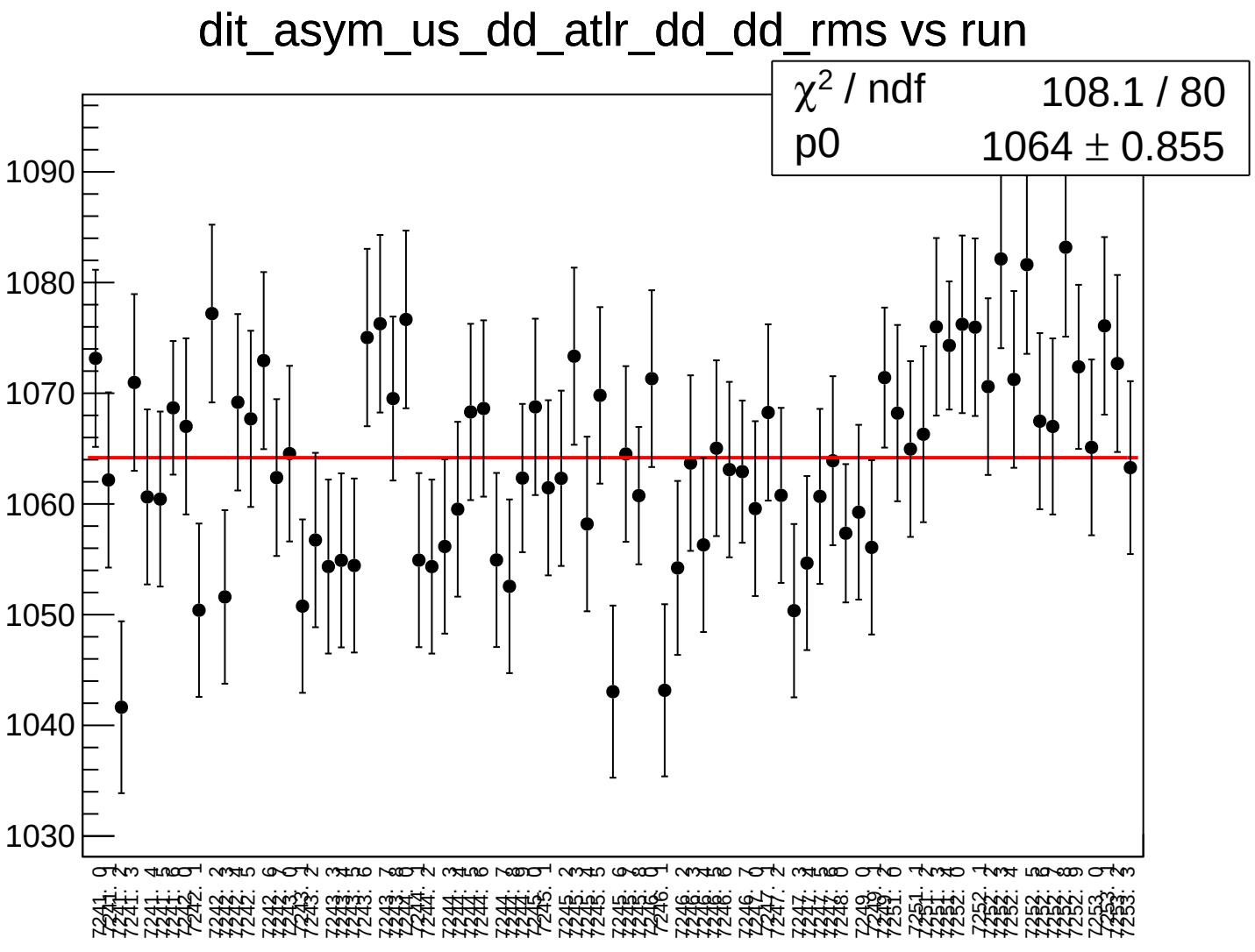

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 90.61 / 80
p0 −753.7 ± 390.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean 36.79
Std Dev 0
2
1
0
−1
−2

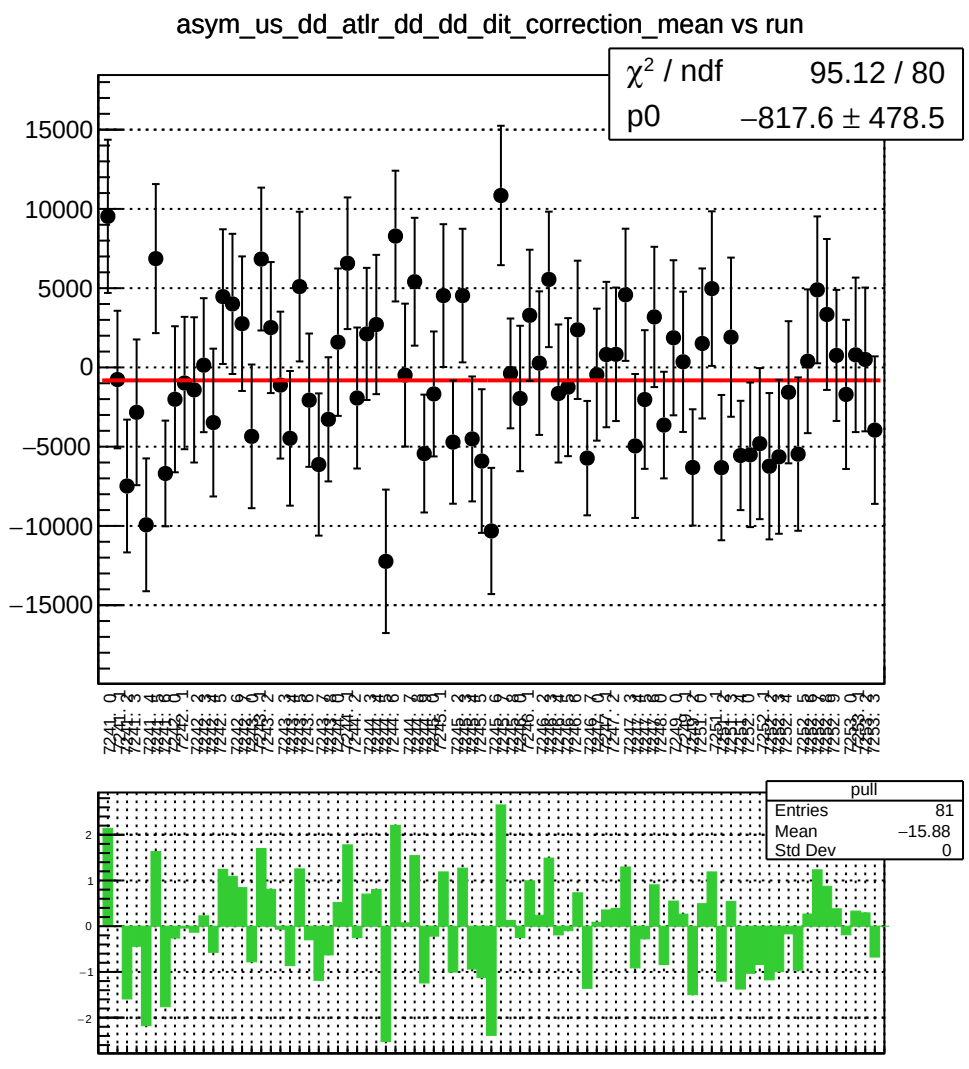

pull1D
Entries 81
Mean 0.02521
Std Dev 1.057
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

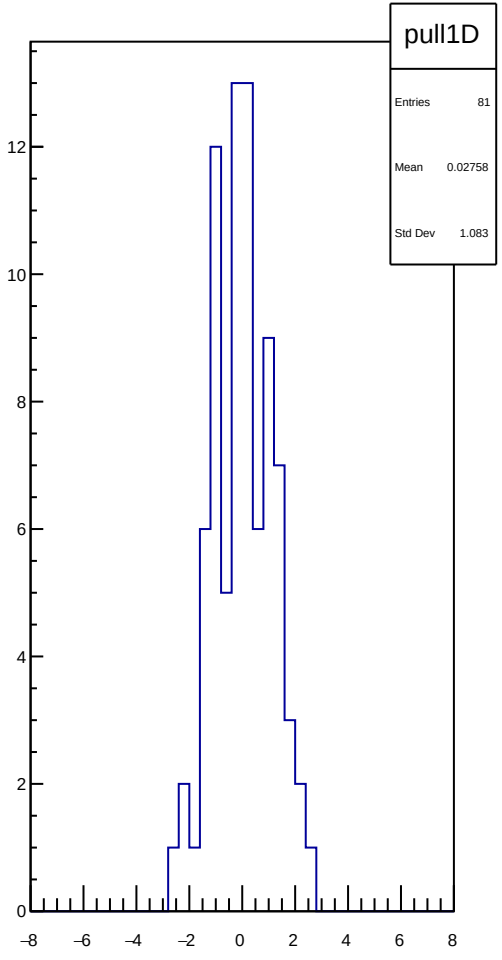

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 6902 / 80
p0 343 ± 0.2762
400
380
360
340
320
300
280

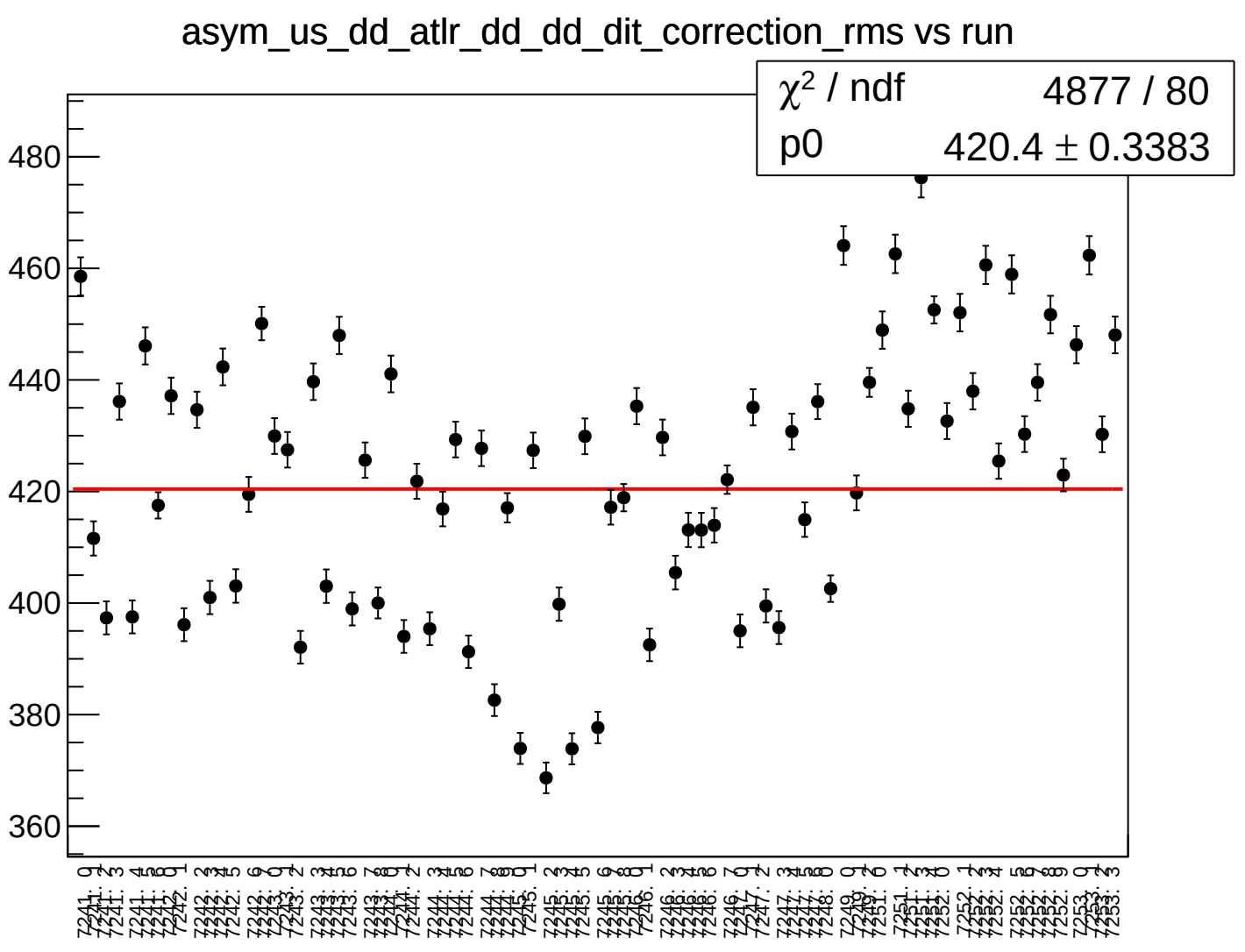

dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 83.48 / 80
p0 132.3 ± 1209
pull
Entries 81
Mean −148.1
Std Dev 0

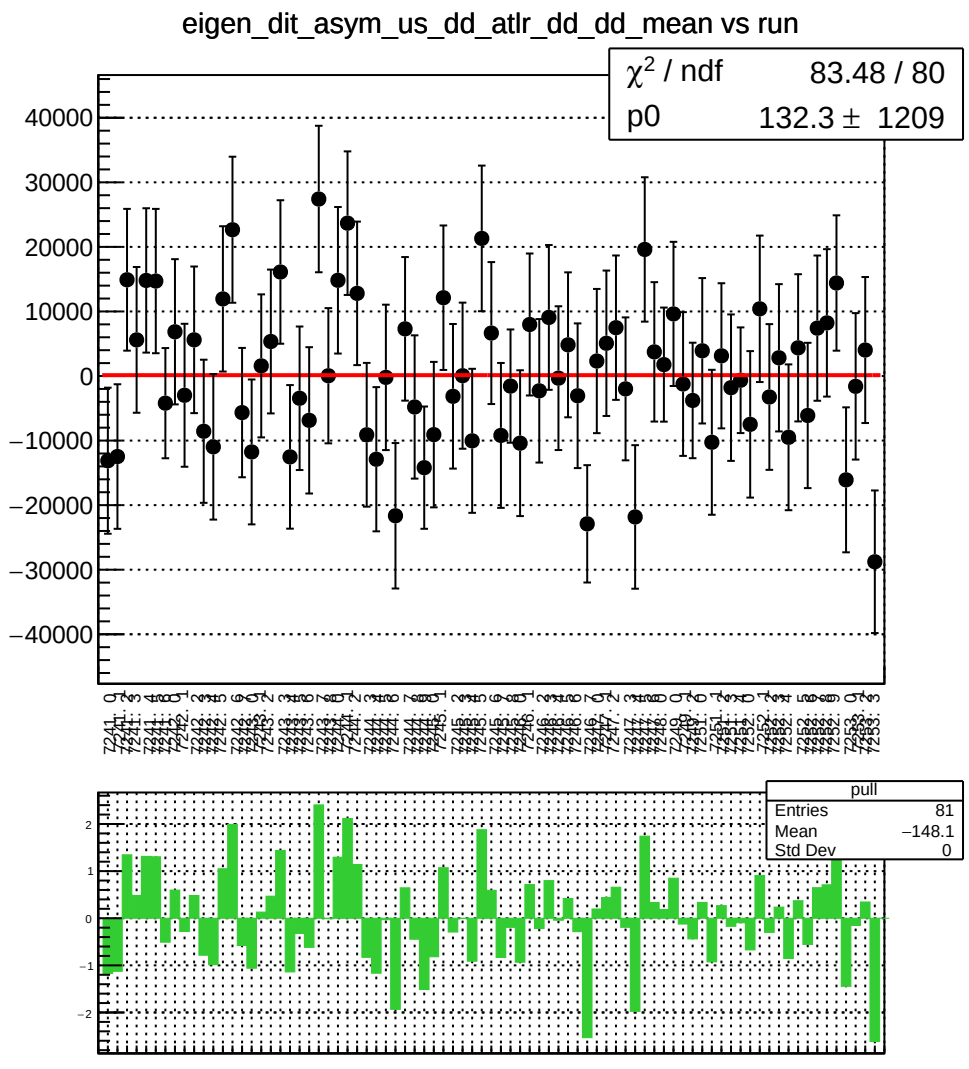

pull1D
Entries 81
Mean 0.01467
Std Dev 1.015

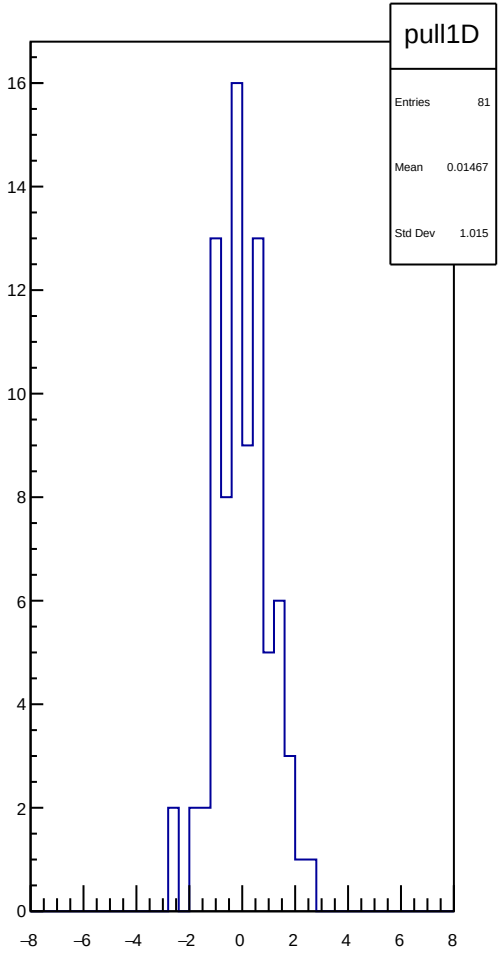

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 108.1 / 80
p0 1064 ± 0.855
1090
1080
1070
1060
1050
1040
1030

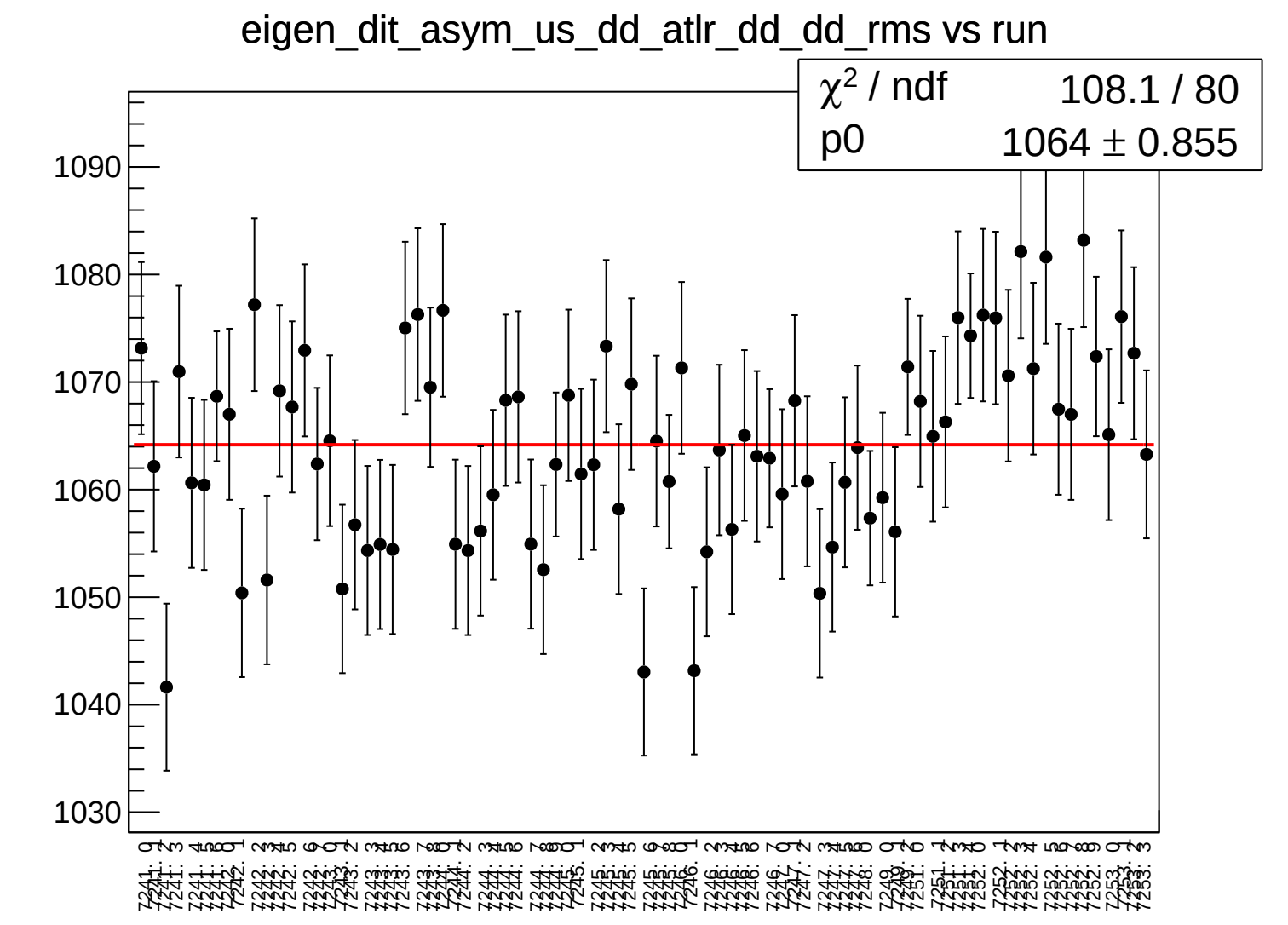

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 95.12 / 80
p0 −817.6 ± 478.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean −15.88
Std Dev 0
2
1
0
−1
−2

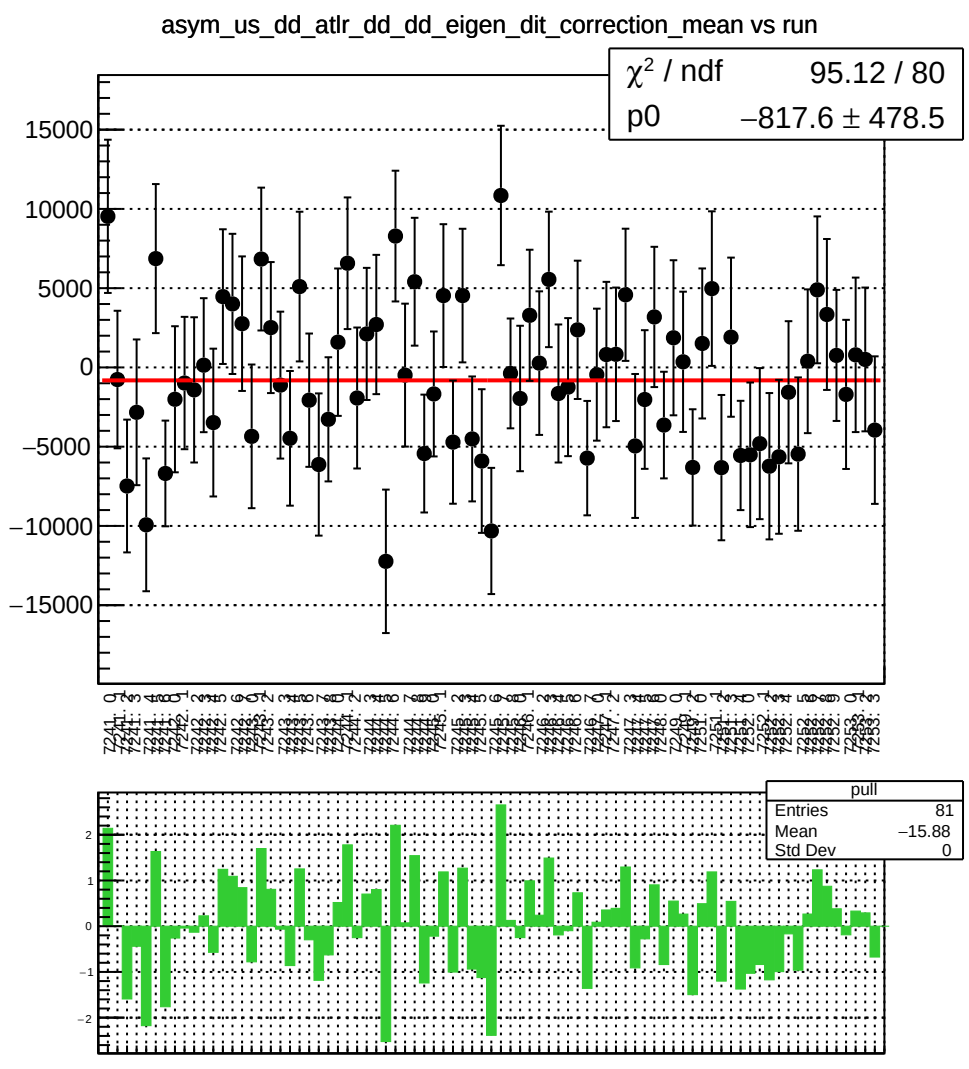

pull1D
Entries 81
Mean 0.02758
Std Dev 1.083
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

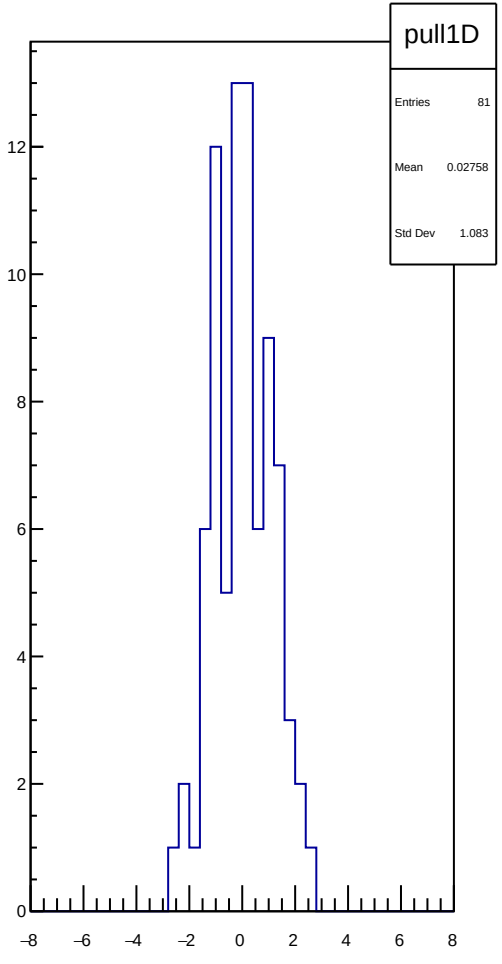

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 4877 / 80
p0 420.4 ± 0.3383
480
460
440
420
400
380
360

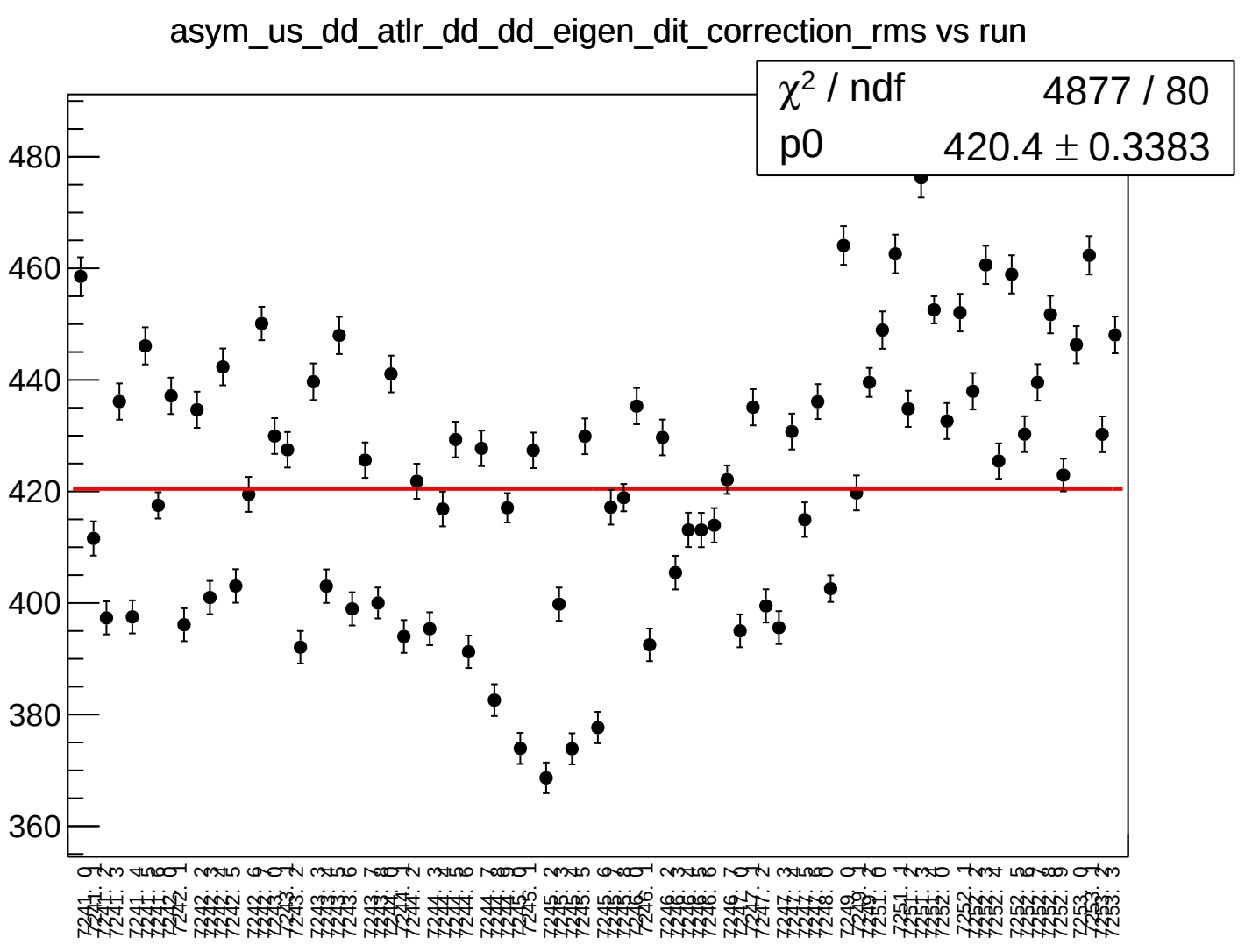

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ^2 / ndf 83.48 / 80
p0 132.3 ± 1209
pull
Entries 81
Mean −148.1
Std Dev 0

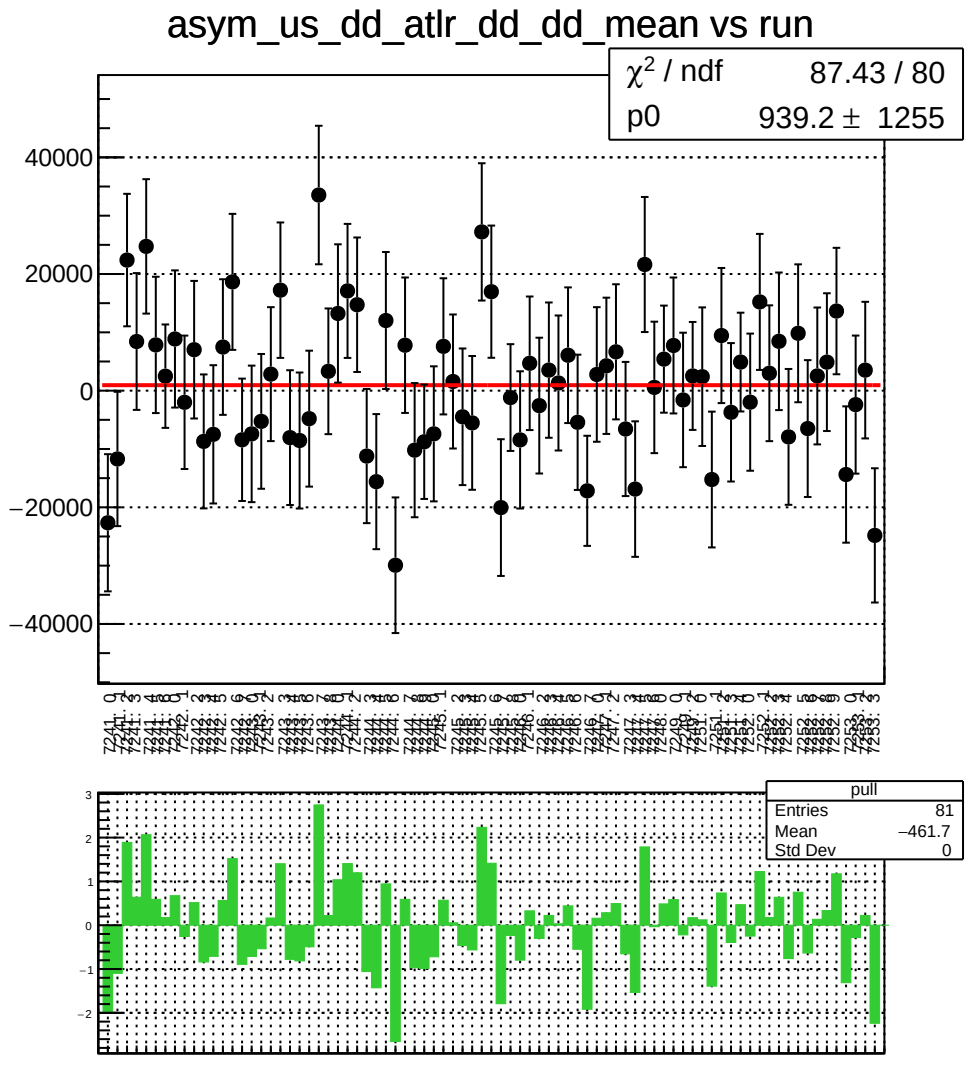

pull1D
Entries 81
Mean 0.01467
Std Dev 1.015

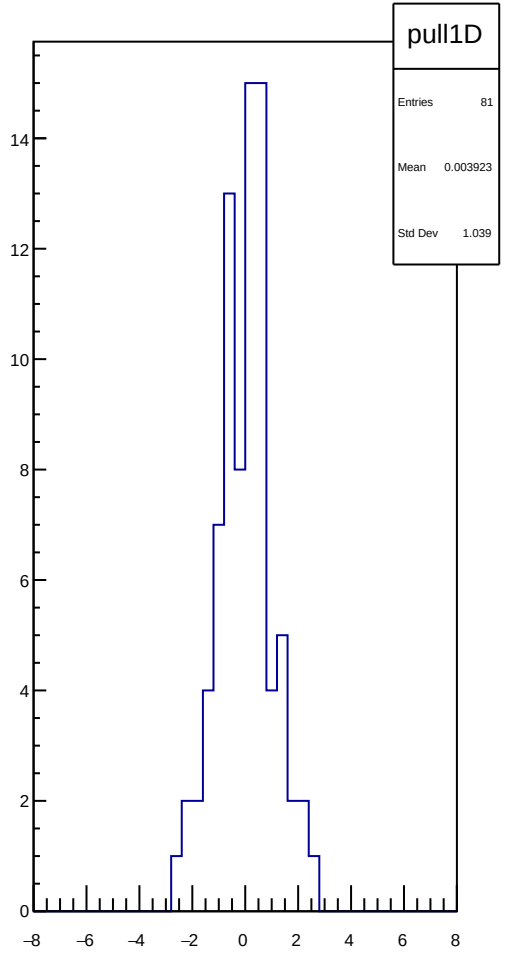

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ^2 / ndf 108.1 / 80
p0 1064 ± 0.855
1090
1080
1070
1060
1050
1040
1030

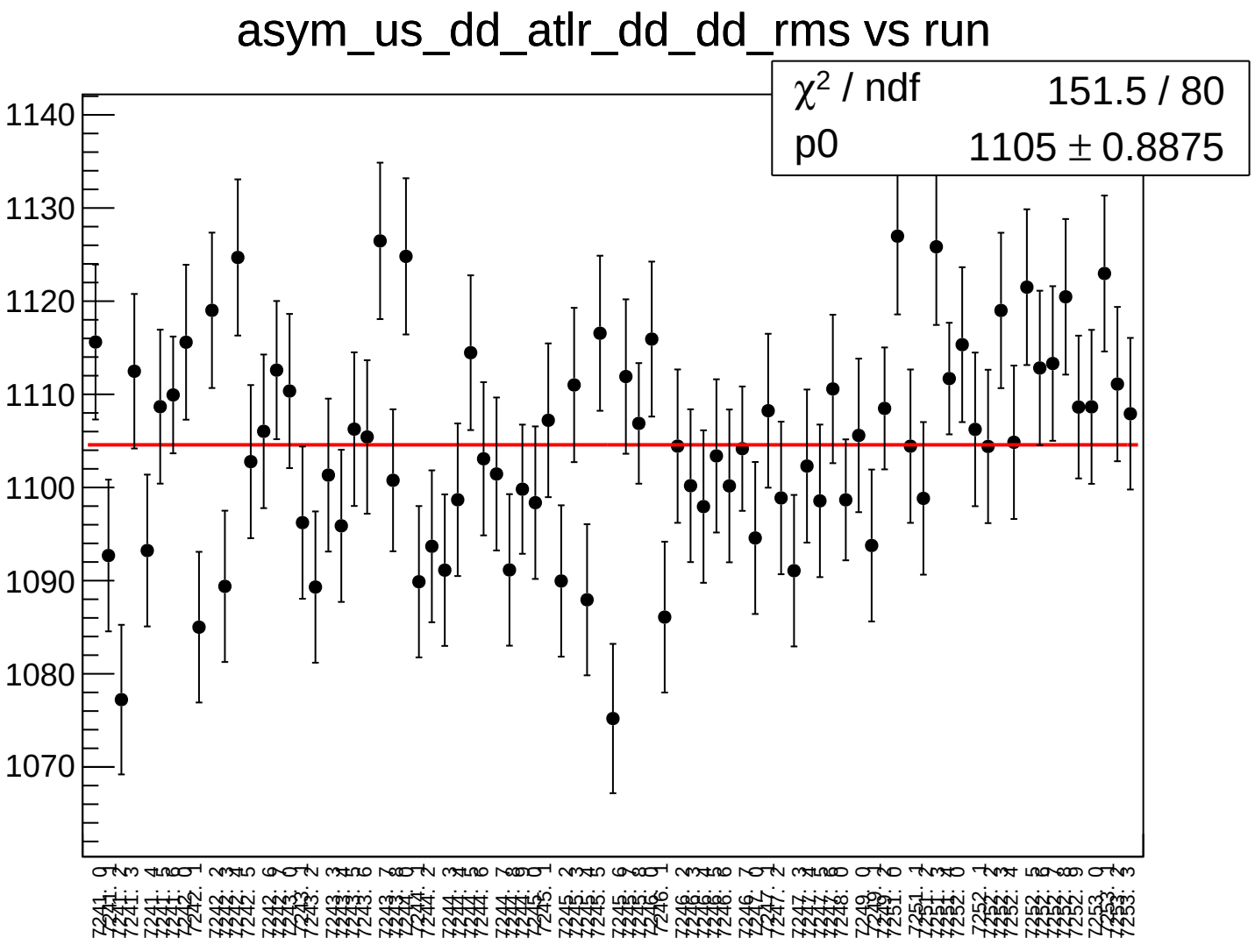

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 95.12 / 80
p0 −817.6 ± 478.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean −15.88
Std Dev 0
2
1
0
−1
−2

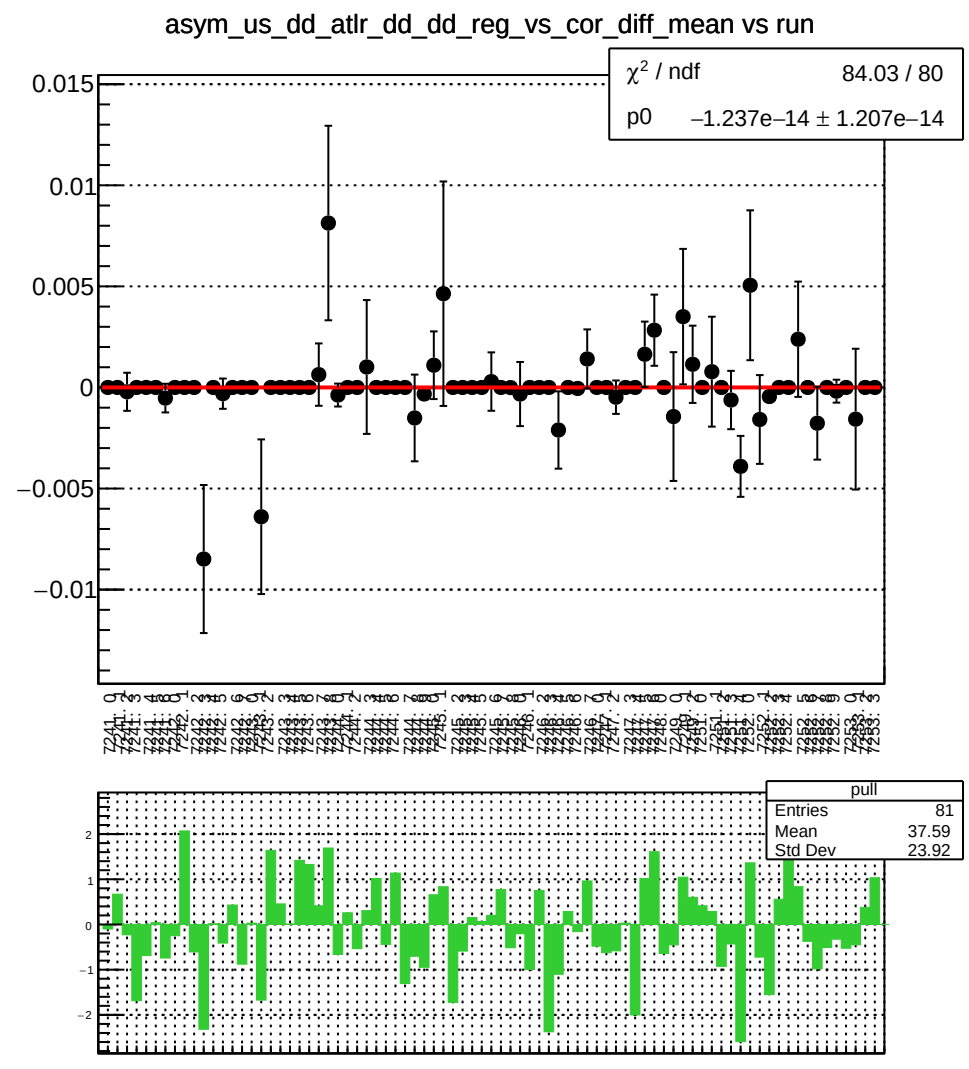

pull1D
Entries 81
Mean 0.02758
Std Dev 1.083
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

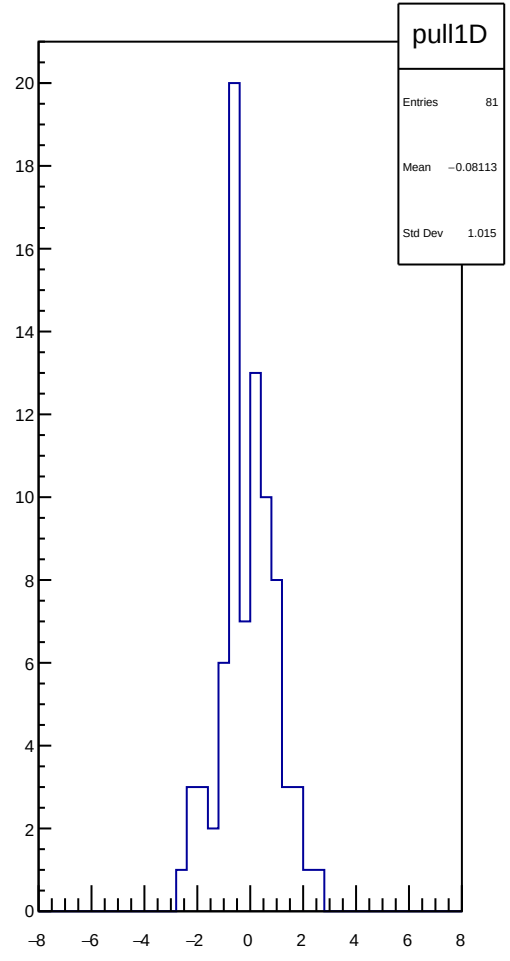

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 4877 / 80
p0 420.4 ± 0.3383
480
460
440
420
400
380
360

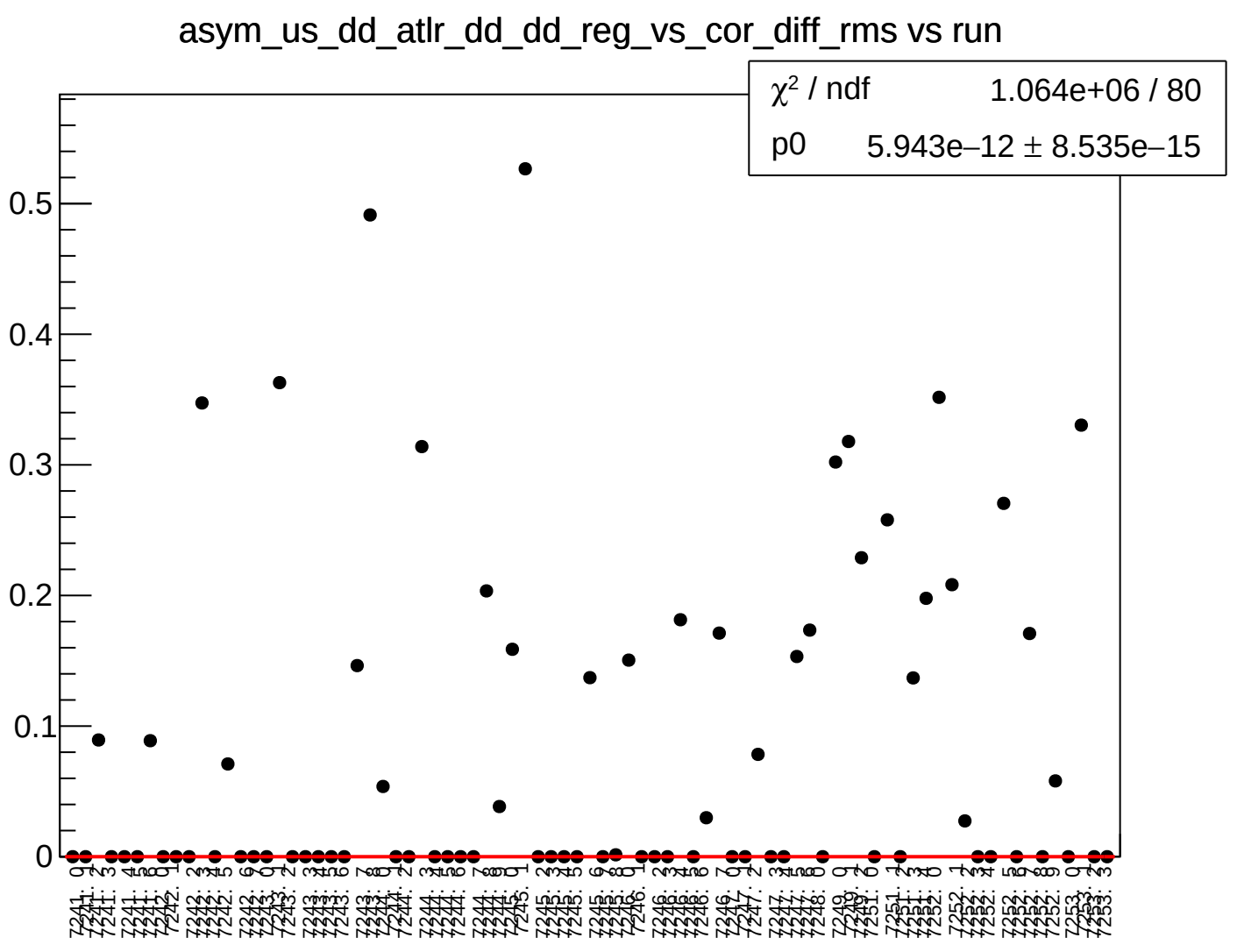

asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 87.43 / 80
p0 939.2 ± 1255
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −461.7
Std Dev 0
3
2
1
0
−1
−2

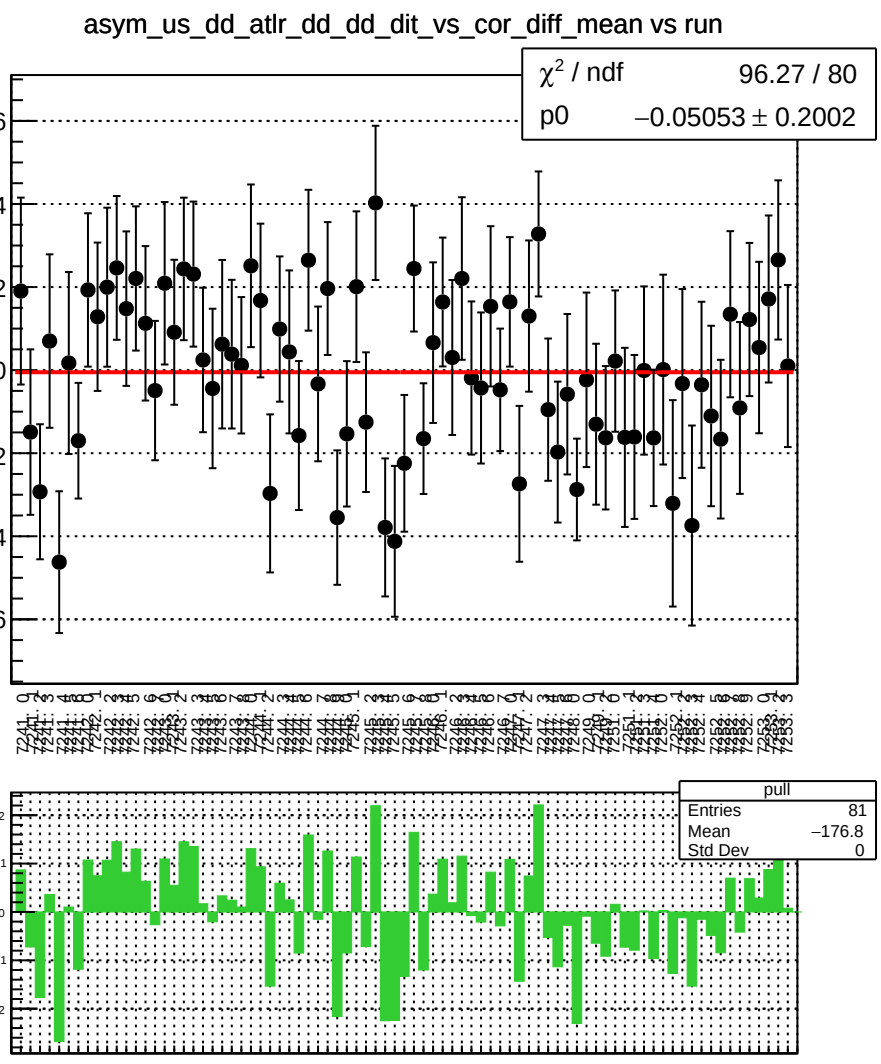

pull1D
Entries 81
Mean 0.003923
Std Dev 1.039
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

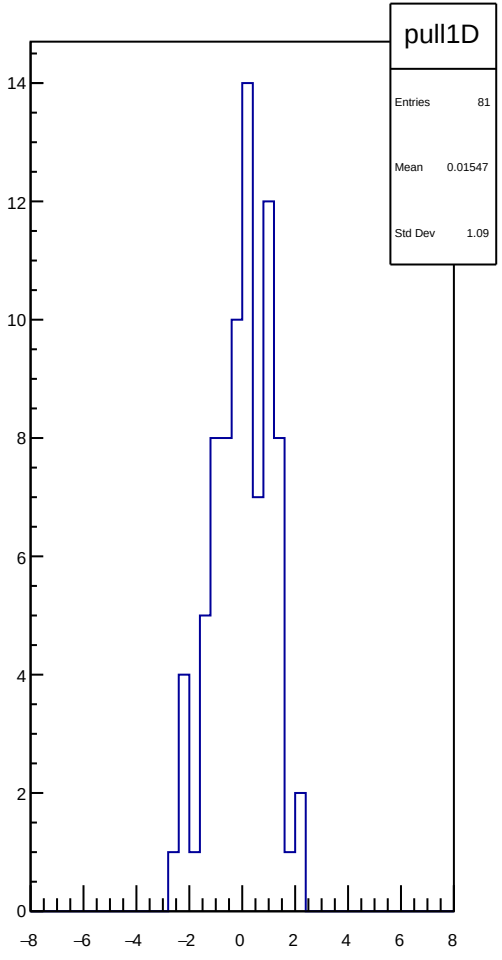

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 151.5 / 80
p0 1105 ± 0.8875
1140
1130
1120
1110
1100
1090
1080
1070

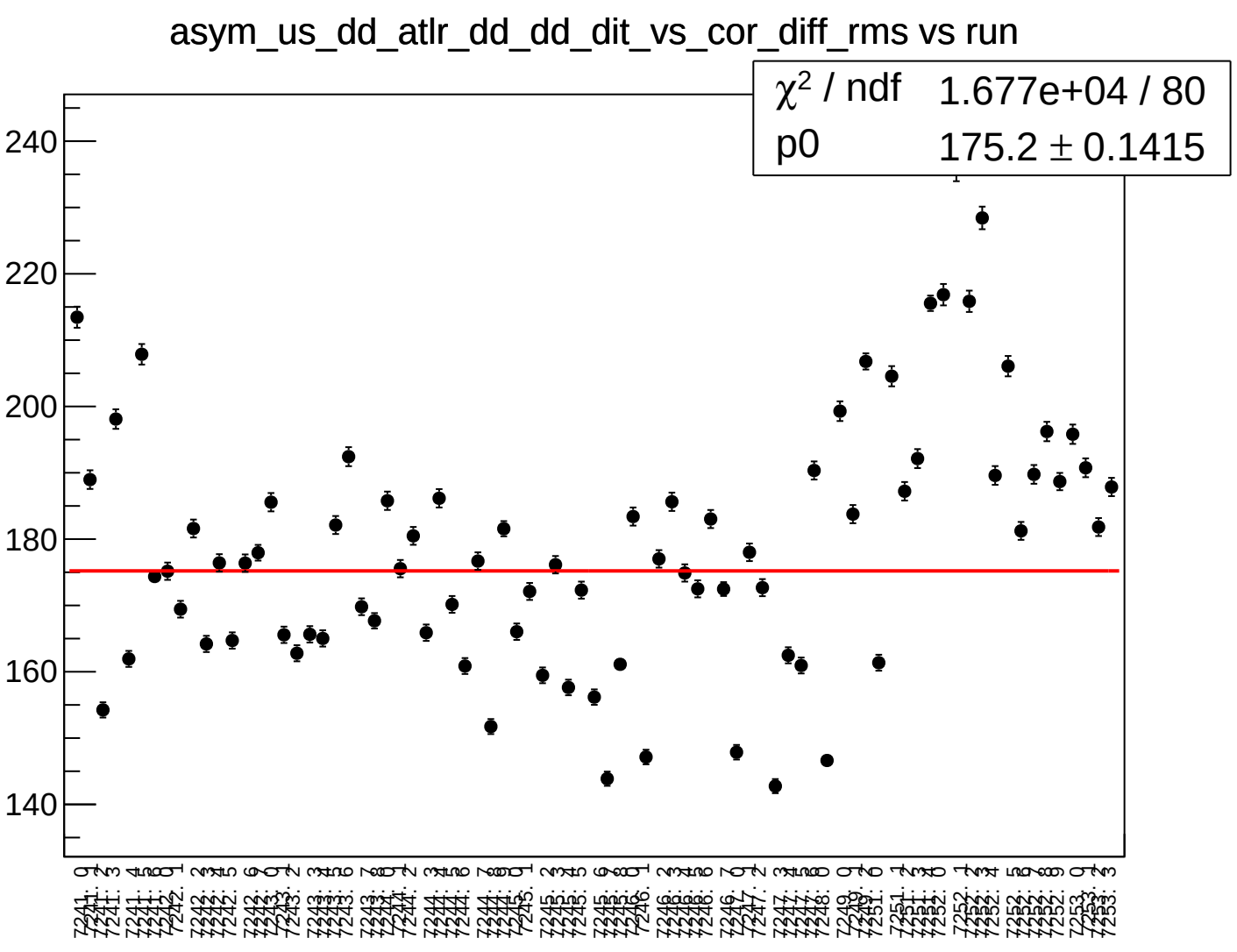

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 84.03 / 80
p0 −1.237e−14 ± 1.207e−14
pull
Entries 81
Mean 37.59
Std Dev 23.92

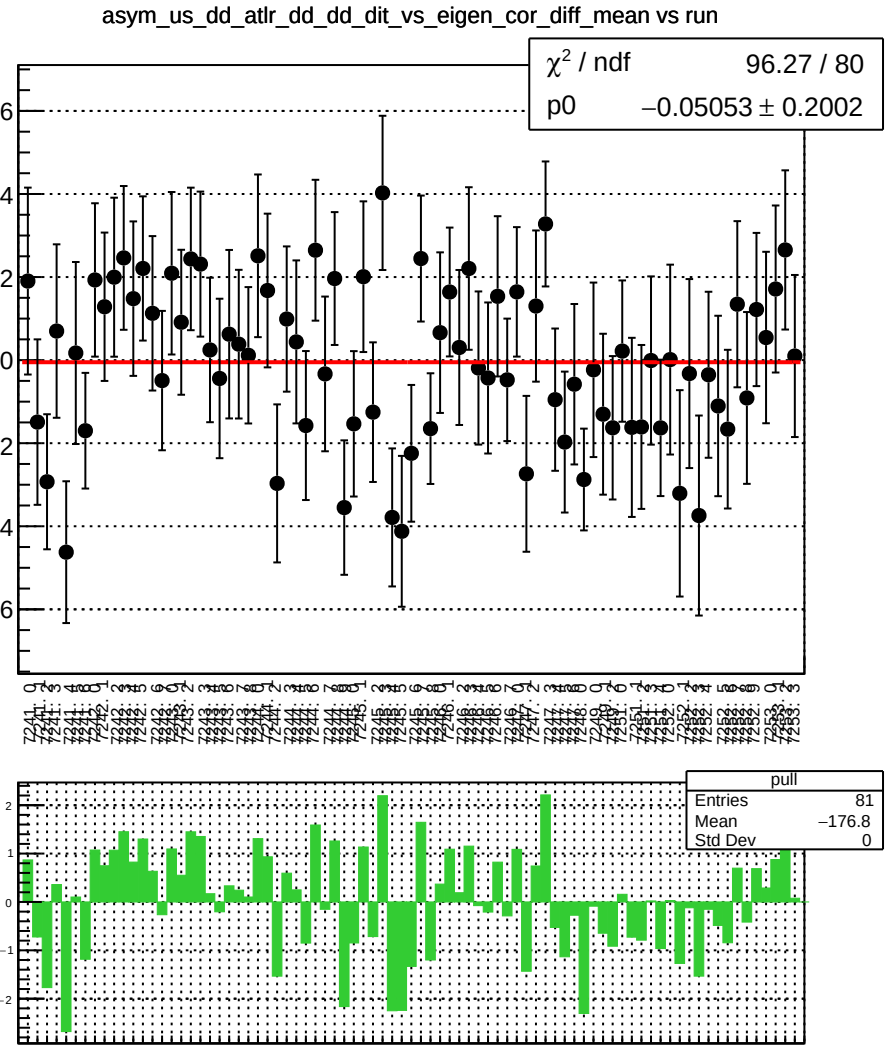

pull1D
Entries 81
Mean −0.08113
Std Dev 1.015

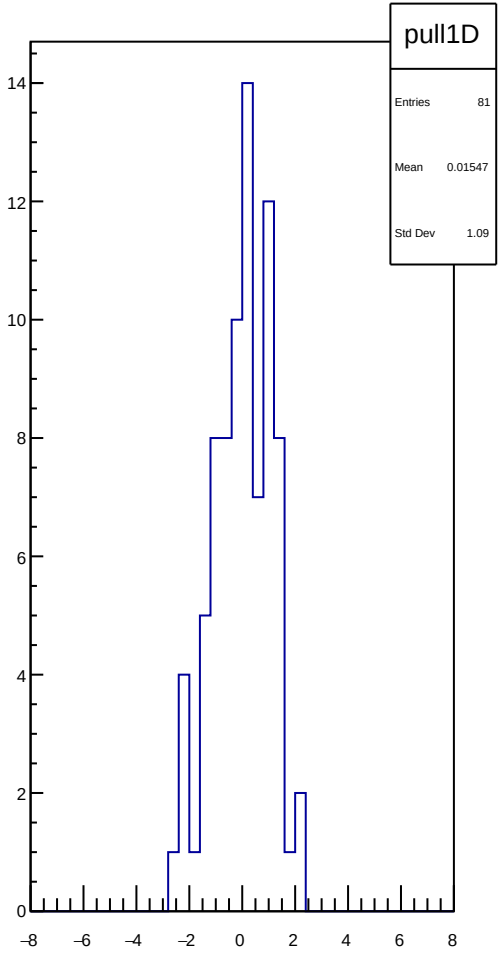

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.064e+06 / 80
p0 5.943e−12 ± 8.535e−15
0.5
0.4
0.3
0.2
0.1
0

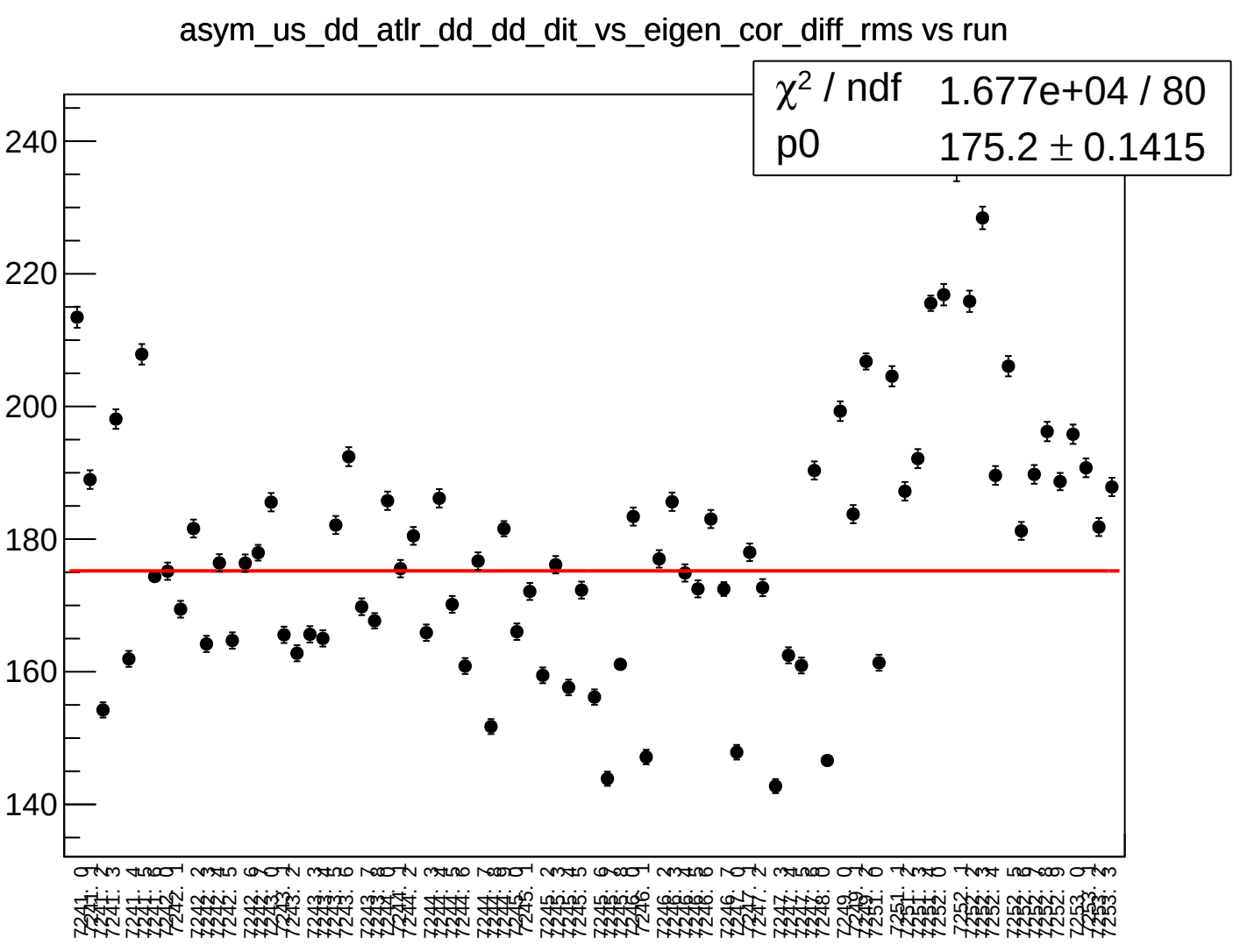

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 96.27 / 80
p0 −0.05053 ± 0.2002
pull
Entries 81
Mean −176.8
Std Dev 0

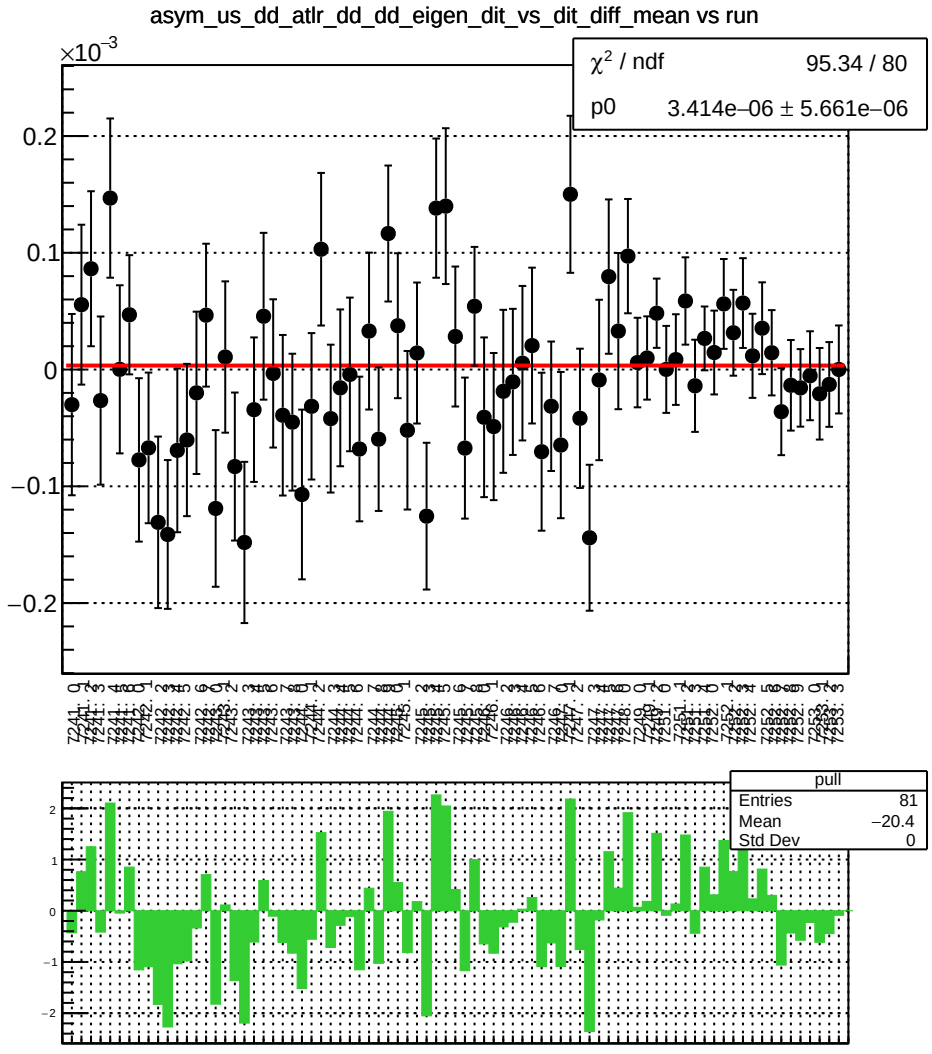

pull1D
Entries 81
Mean 0.01547
Std Dev 1.09

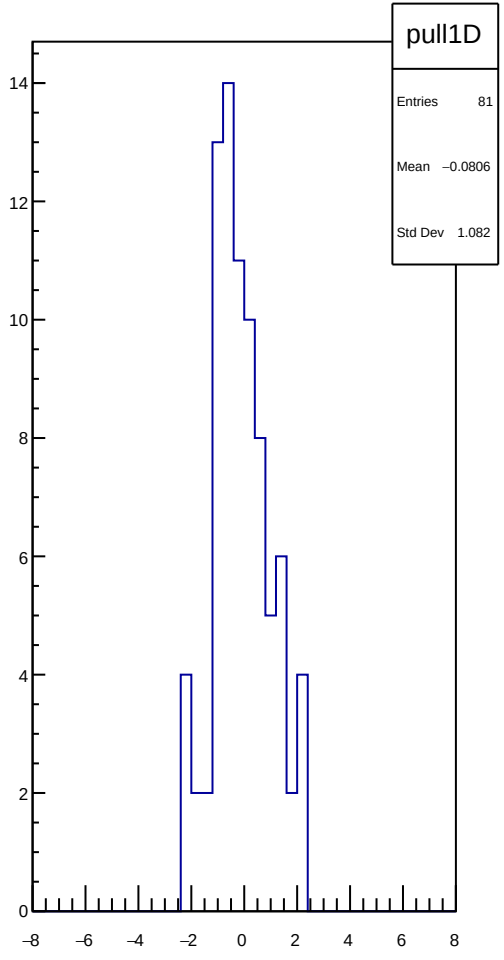

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.677e+04 / 80
p0 175.2 ± 0.1415
240
220
200
180
160
140

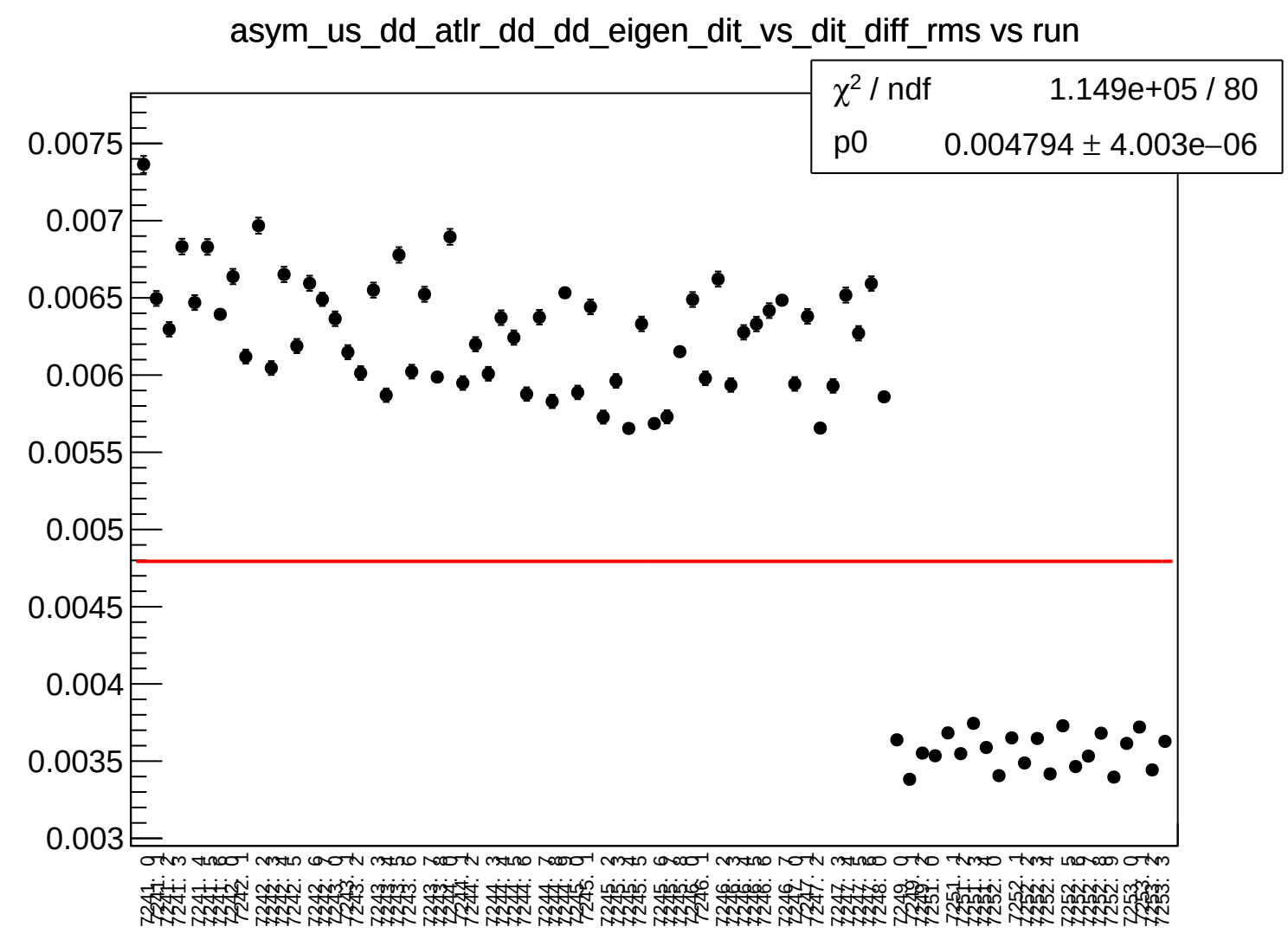

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.27 / 80
p0 −0.05053 ± 0.2002
pull
Entries 81
Mean −176.8
Std Dev 0

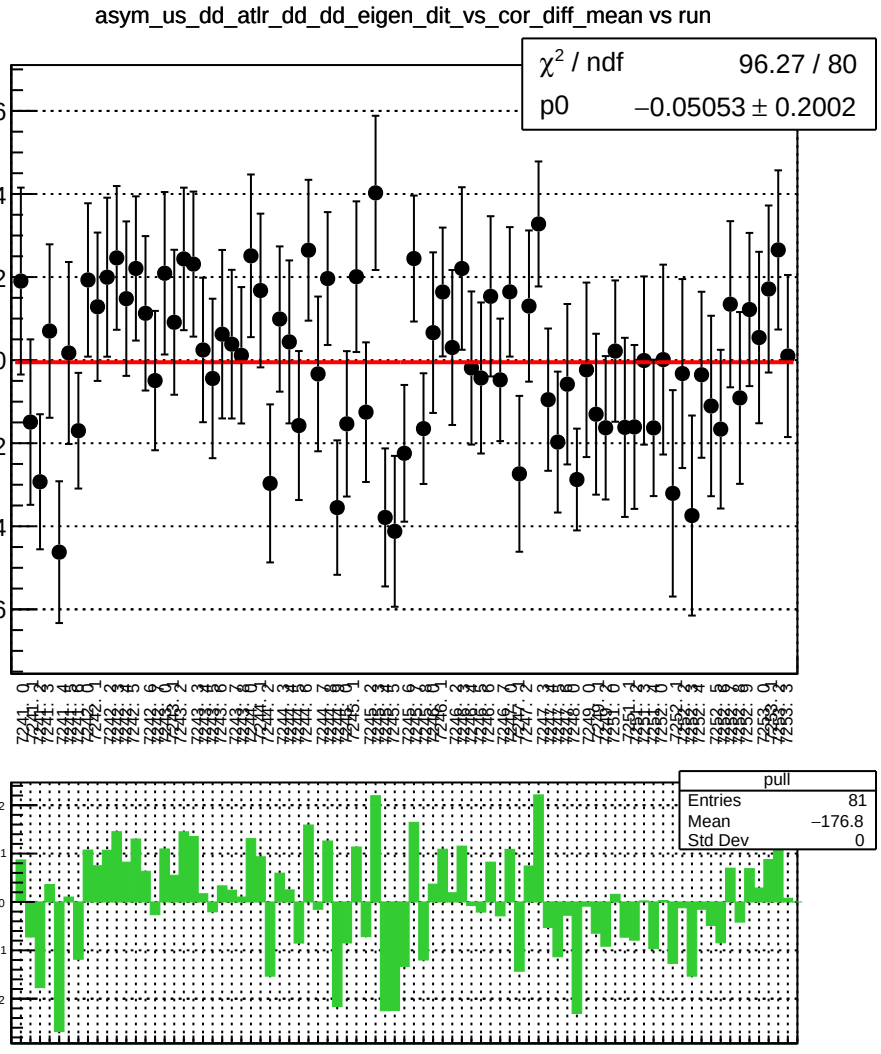

pull1D
Entries 81
Mean 0.01547
Std Dev 1.09

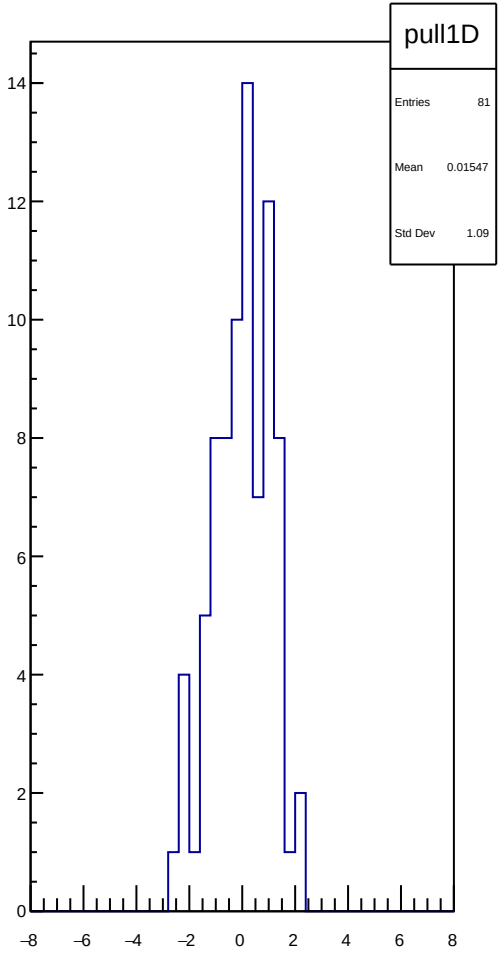

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.677e+04 / 80
p0 175.2 ± 0.1415
240
220
200
180
160
140

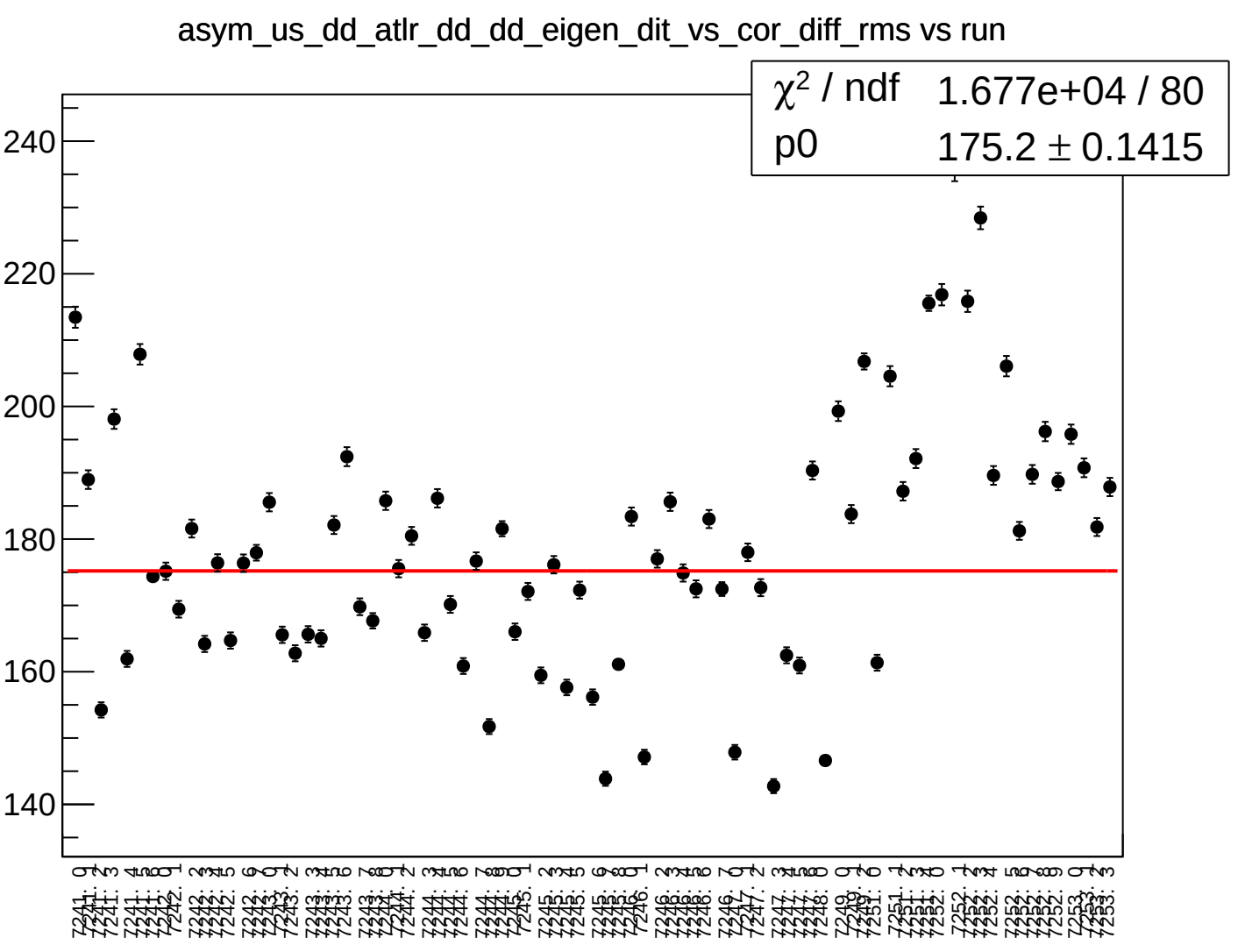

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.34 / 80
p0 3.414e−06 ± 5.661e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 81
Mean −20.4
Std Dev 0
2
1
0
−1
−2

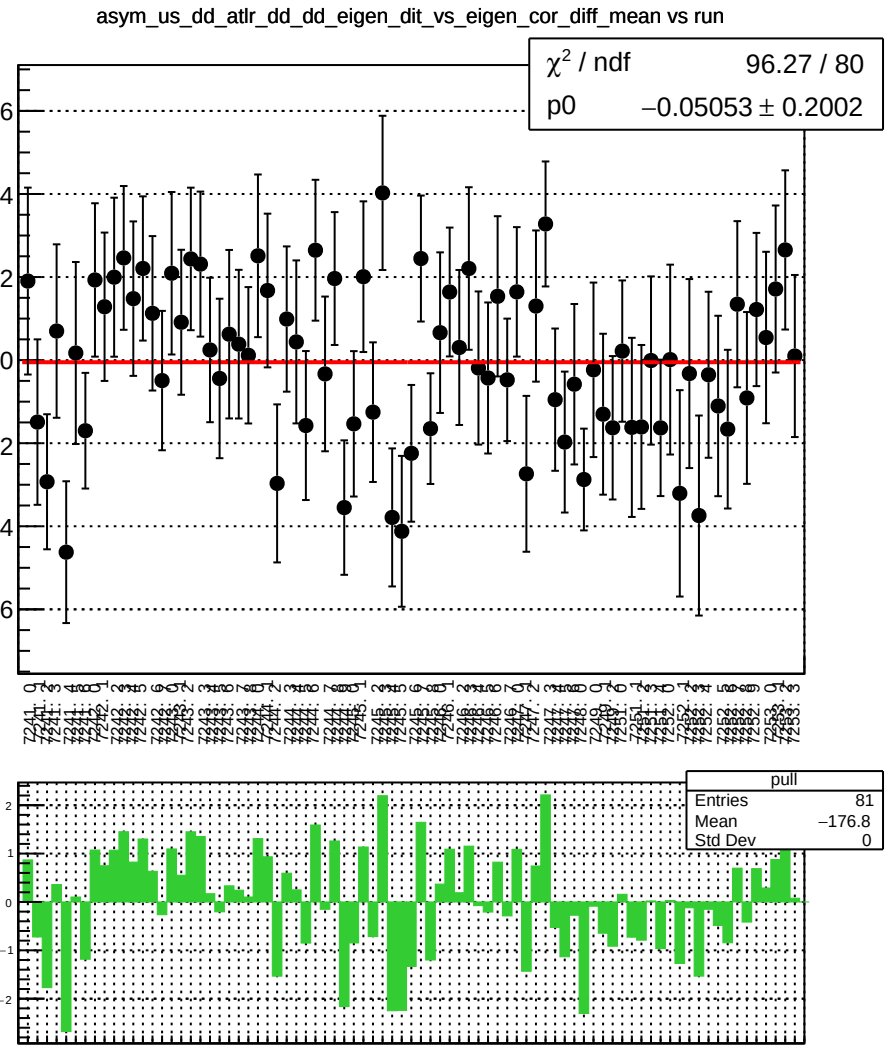

pull1D
Entries 81
Mean −0.0806
Std Dev 1.082
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

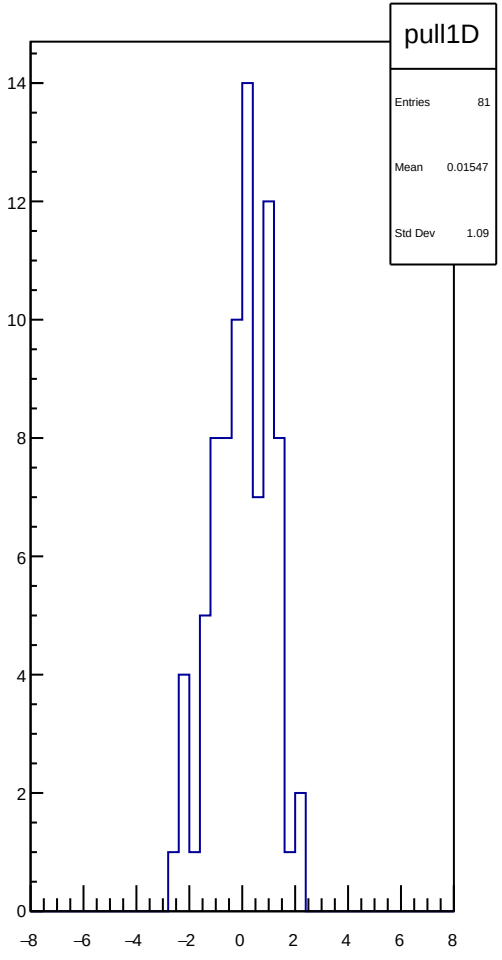

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.149e+05 / 80
p0 0.004794 ± 4.003e−06
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003

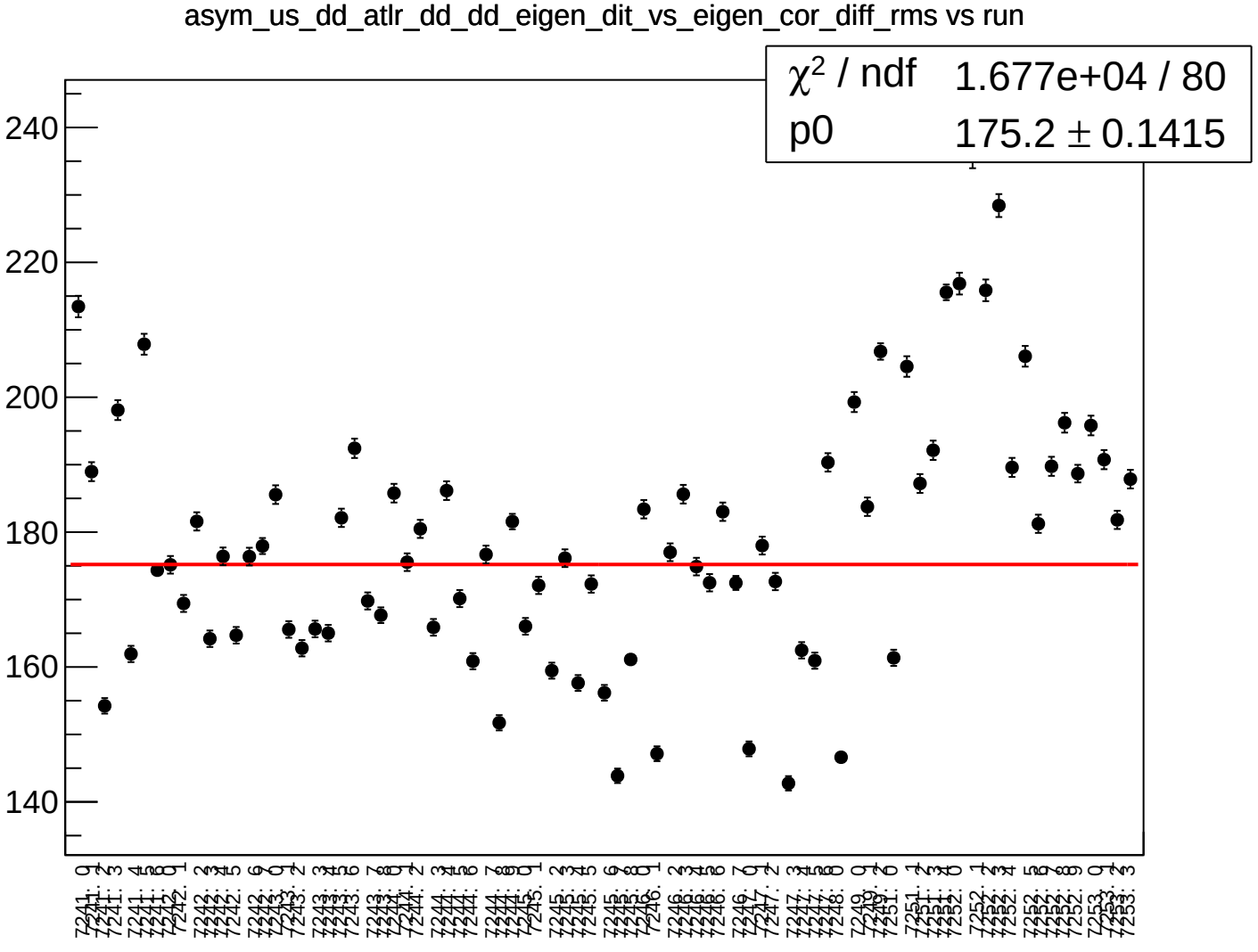

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.27 / 80
p0 −0.05053 ± 0.2002
pull
Entries 81
Mean −176.8
Std Dev 0

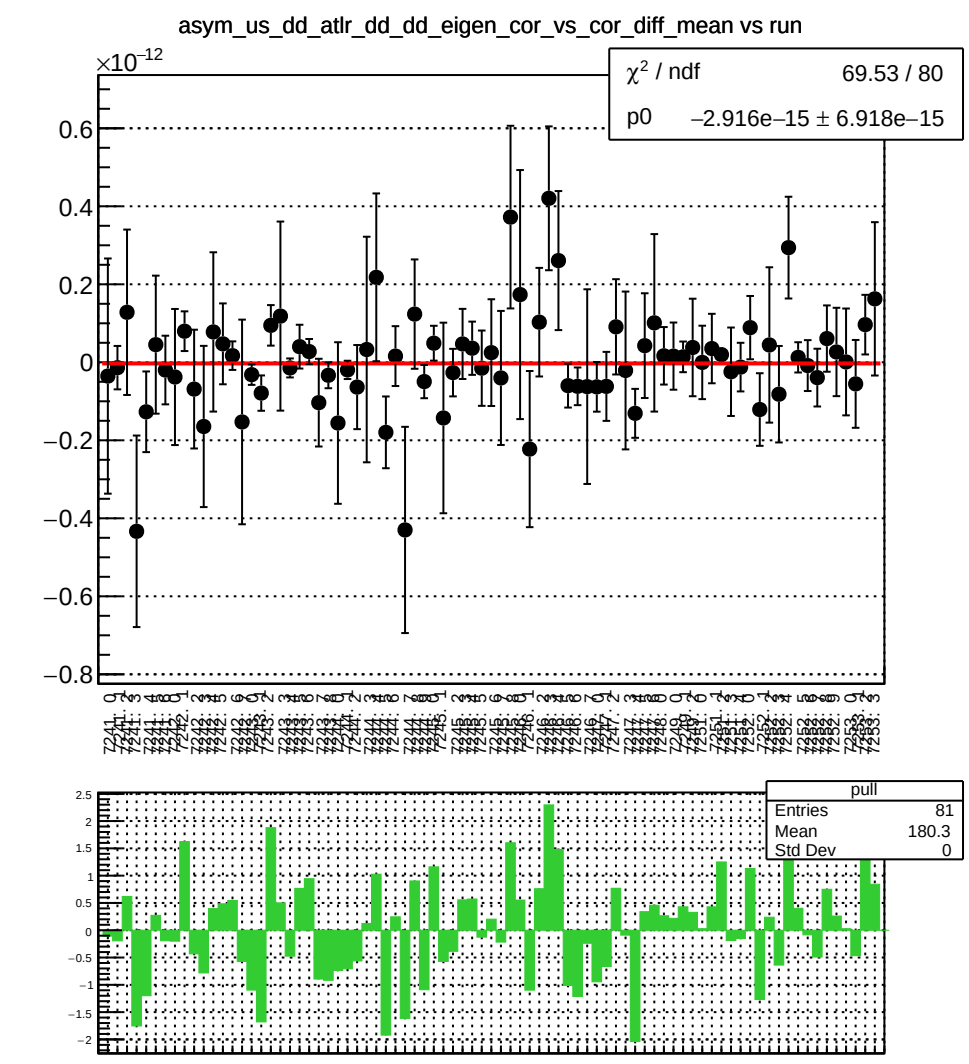

pull1D
Entries 81
Mean 0.01547
Std Dev 1.09

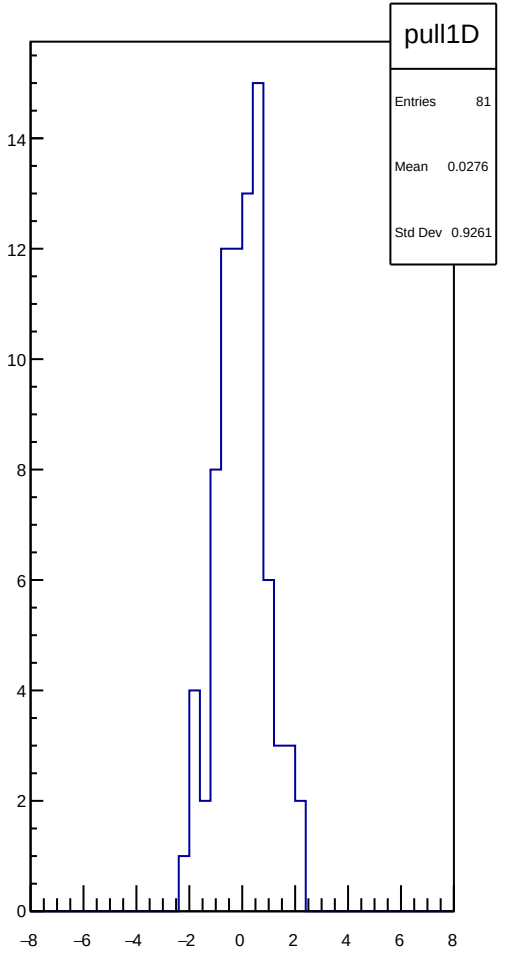

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.677e+04 / 80
p0 175.2 ± 0.1415
240
220
200
180
160
140

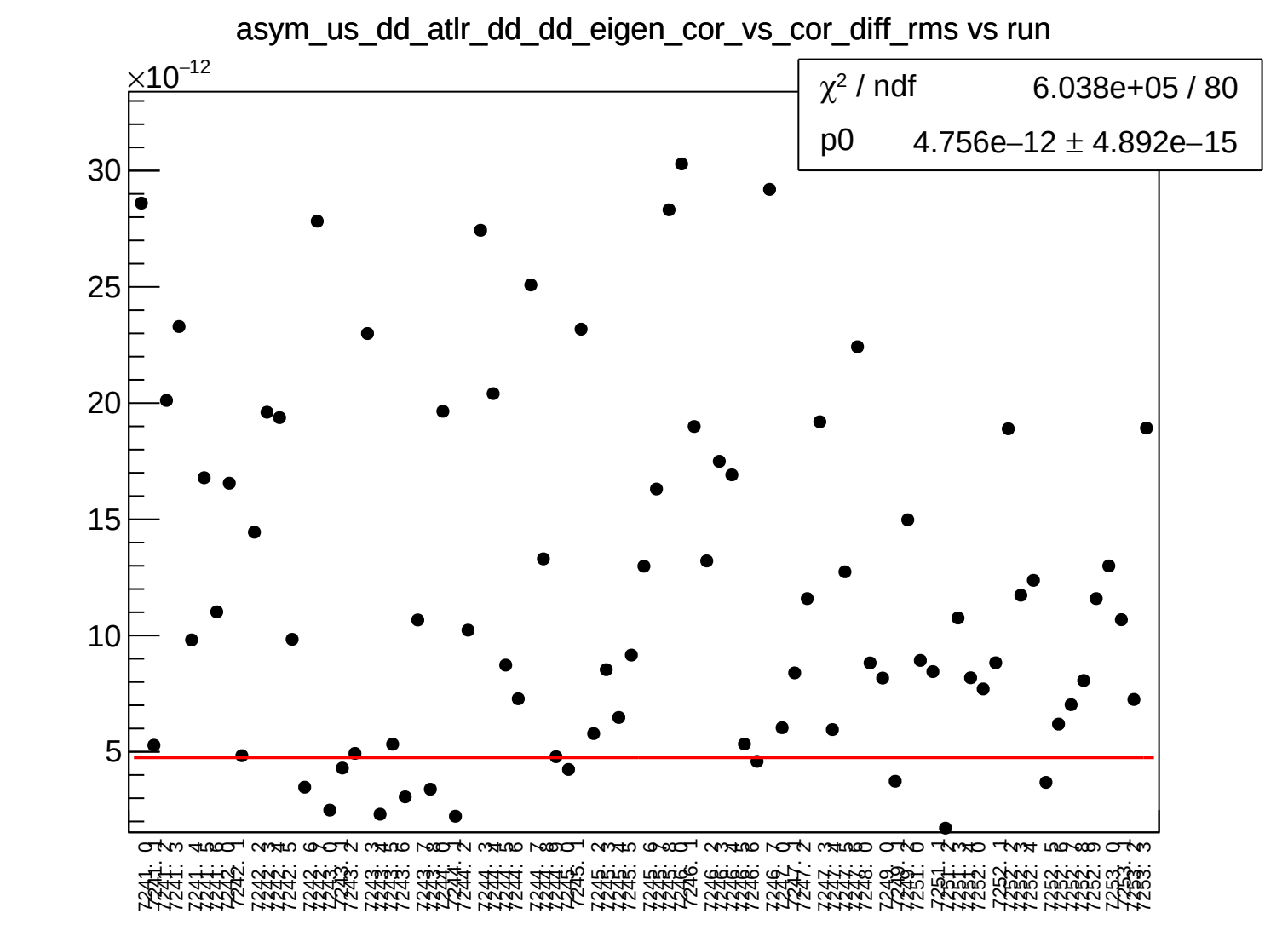

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.27 / 80
p0 −0.05053 ± 0.2002
pull
Entries 81
Mean −176.8
Std Dev 0

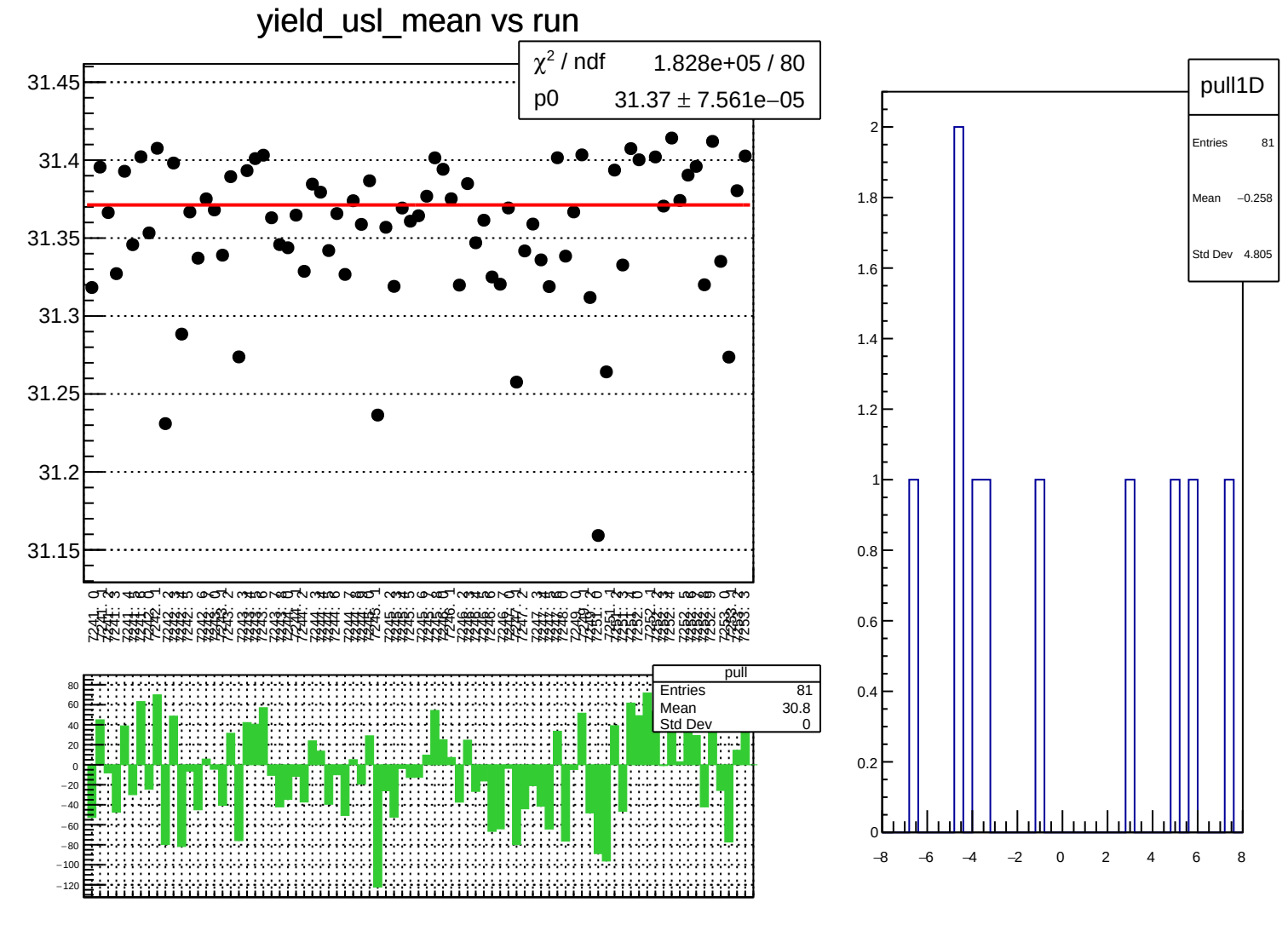

pull1D
Entries 81
Mean 0.01547
Std Dev 1.09

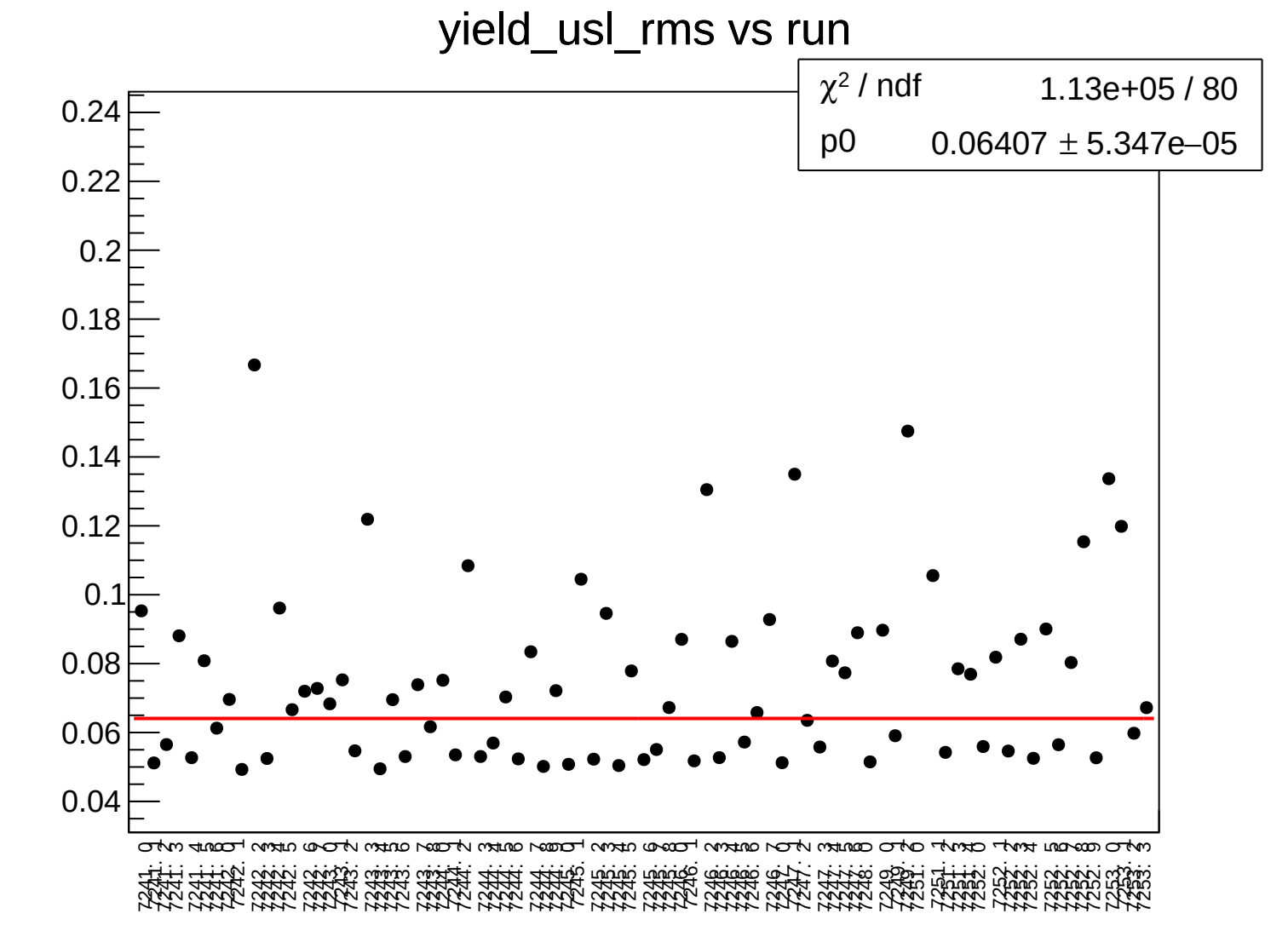

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.677e+04 / 80
p0 175.2 ± 0.1415
240
220
200
180
160
140

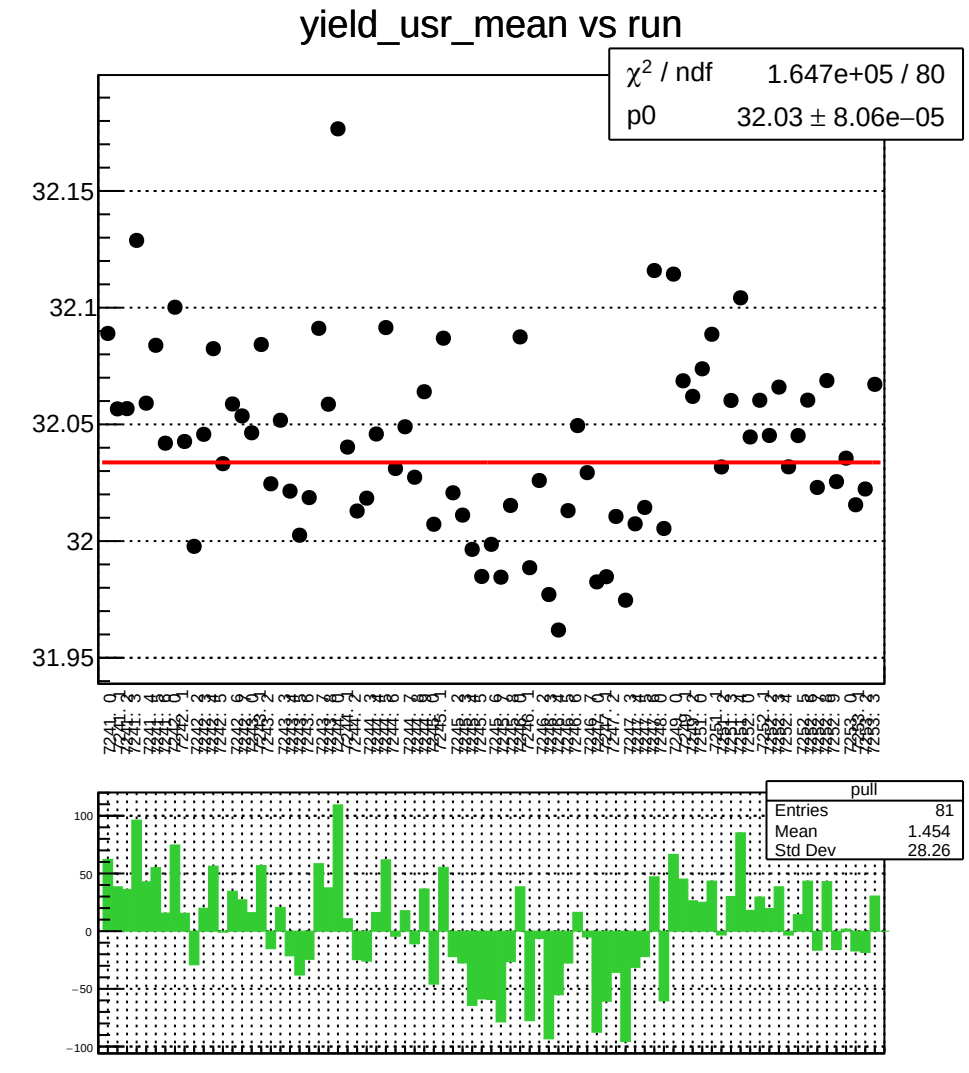

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 69.53 / 80
p0 −2.916e−15 ± 6.918e−15
pull
Entries 81
Mean 180.3
Std Dev 0

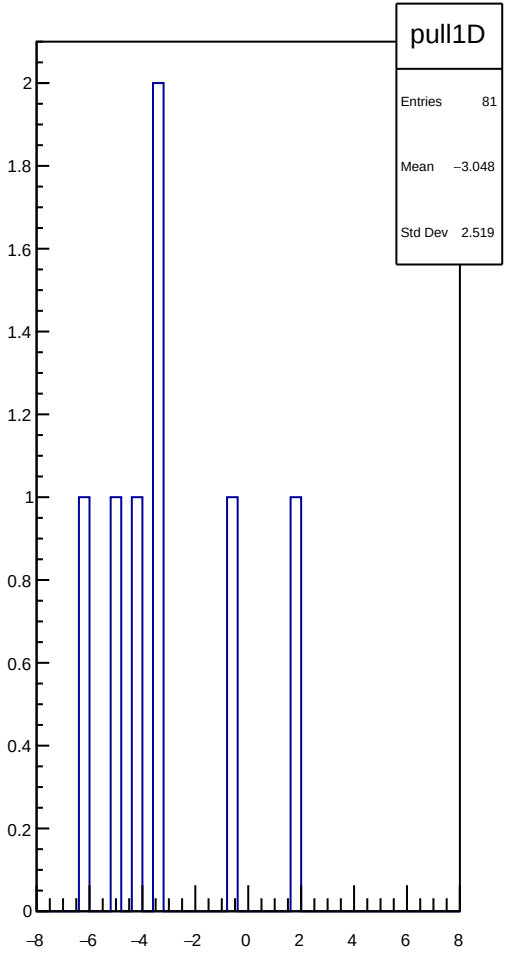

pull1D
Entries 81
Mean 0.0276
Std Dev 0.9261

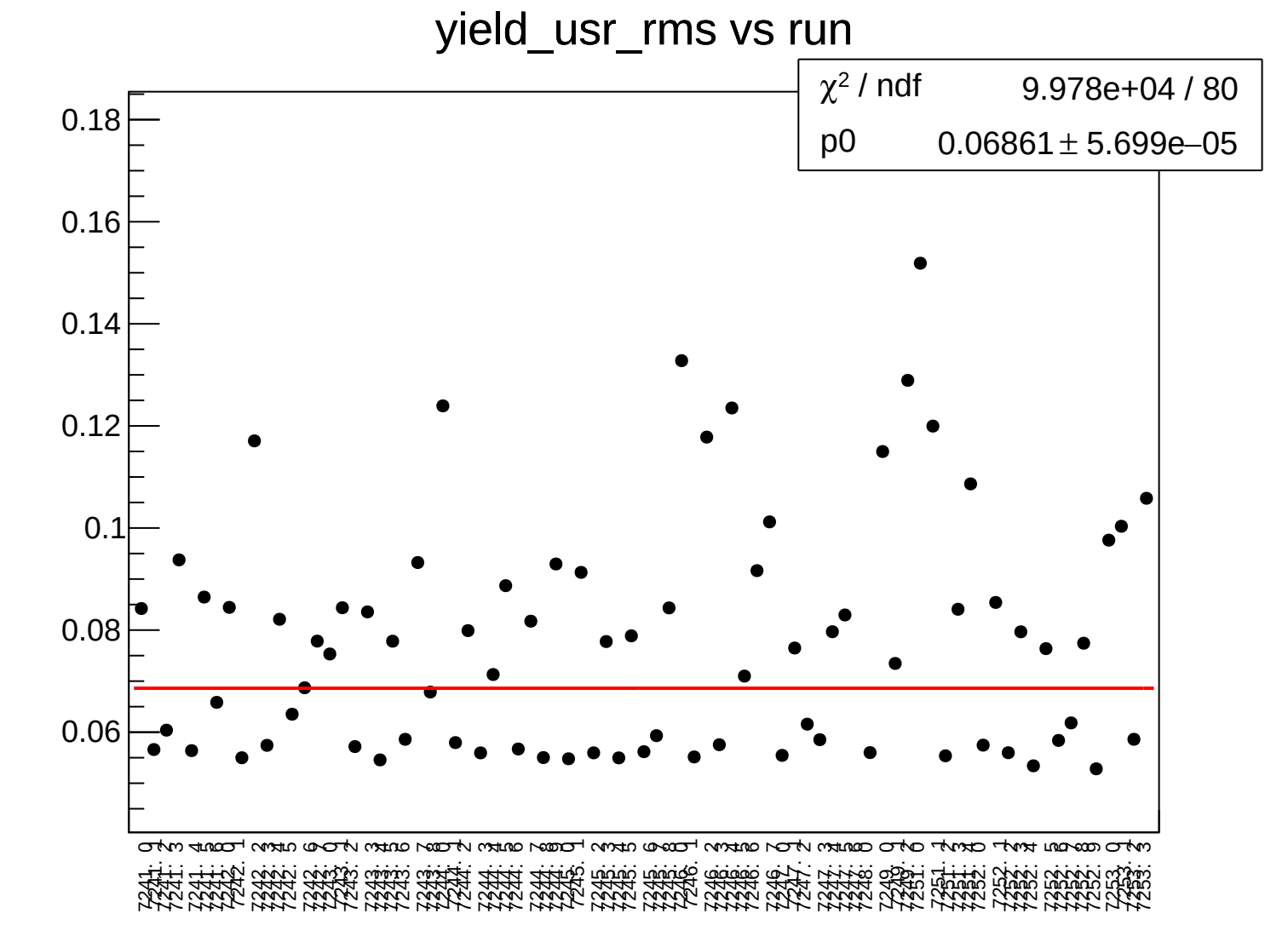

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.038e+05 / 80
p0 4.756e−12 ± 4.892e−15
30
25
20
15
10
5

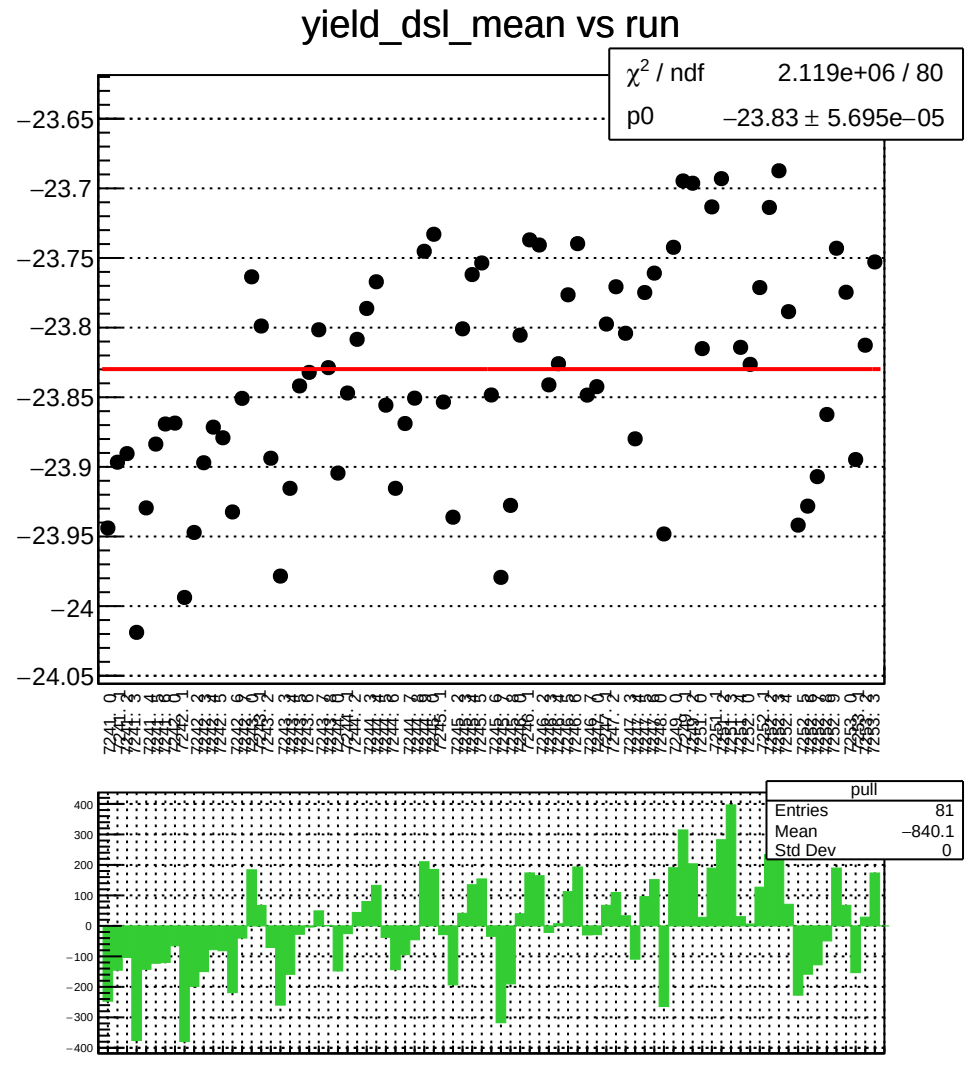

yield_usl_mean vs run
χ² / ndf 1.828e+05 / 80
p0 31.37 ± 7.561e−05
31.45
31.4
31.35
31.3
31.25
31.2
31.15
pull
Entries 81
Mean 30.8
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100
−120
pull1D
Entries 81
Mean −0.258
Std Dev 4.805
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

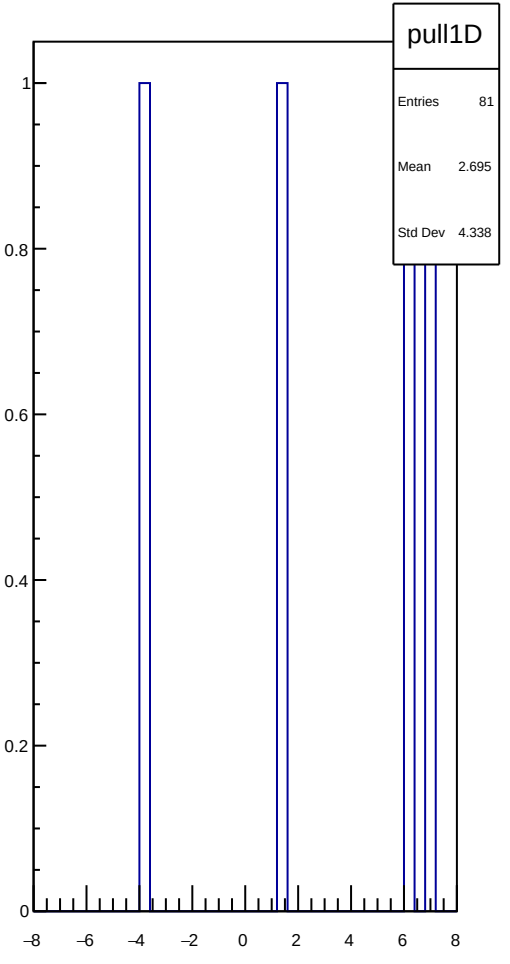

yield_usl_rms vs run
χ² / ndf 1.13e+05 / 80
p0 0.06407 ± 5.347e−05
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04

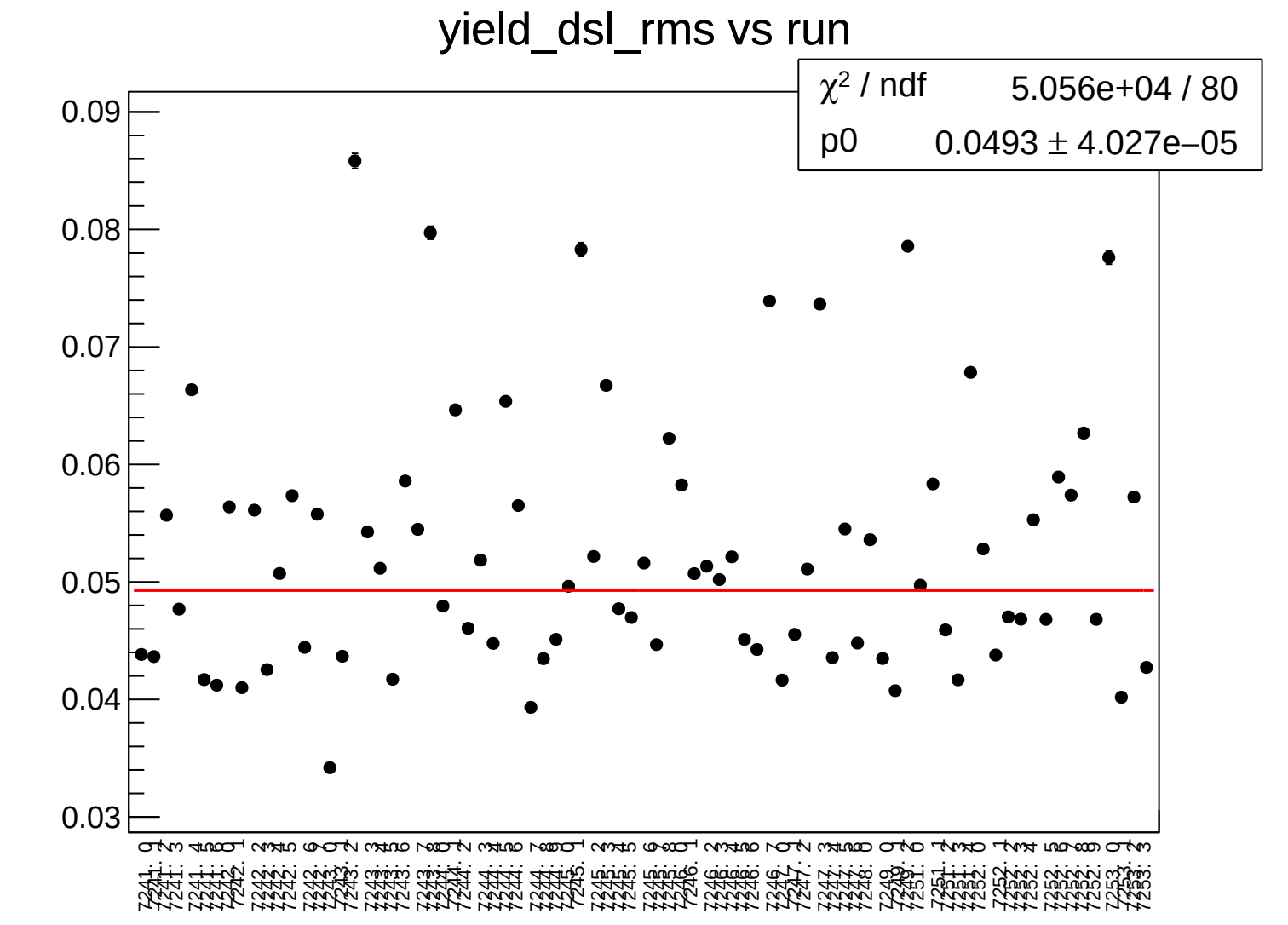

yield_usr_mean vs run
χ² / ndf 1.647e+05 / 80
p0 32.03 ± 8.06e−05
32.15
32.1
32.05
32
31.95
pull
Entries 81
Mean 1.454
Std Dev 28.26
100
50
0
−50
−100

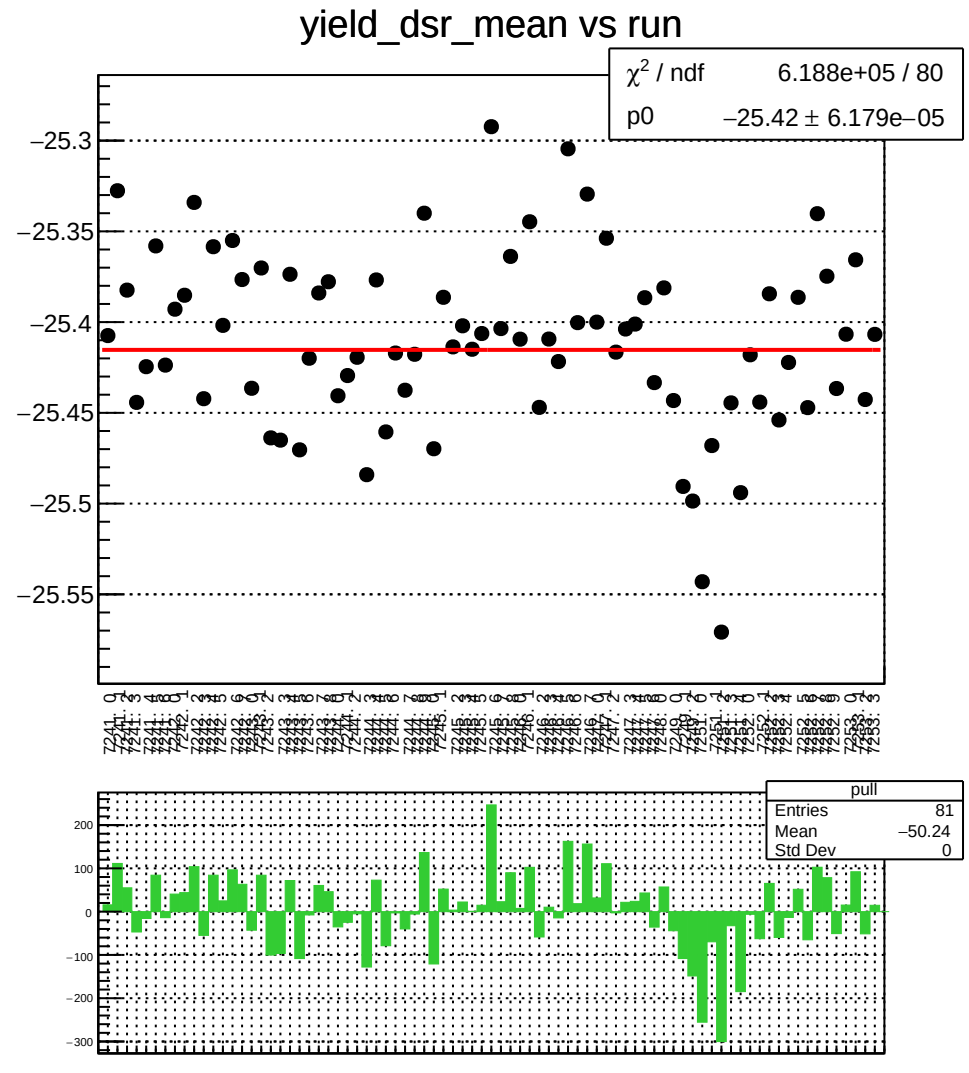

pull1D
Entries 81
Mean −3.048
Std Dev 2.519
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

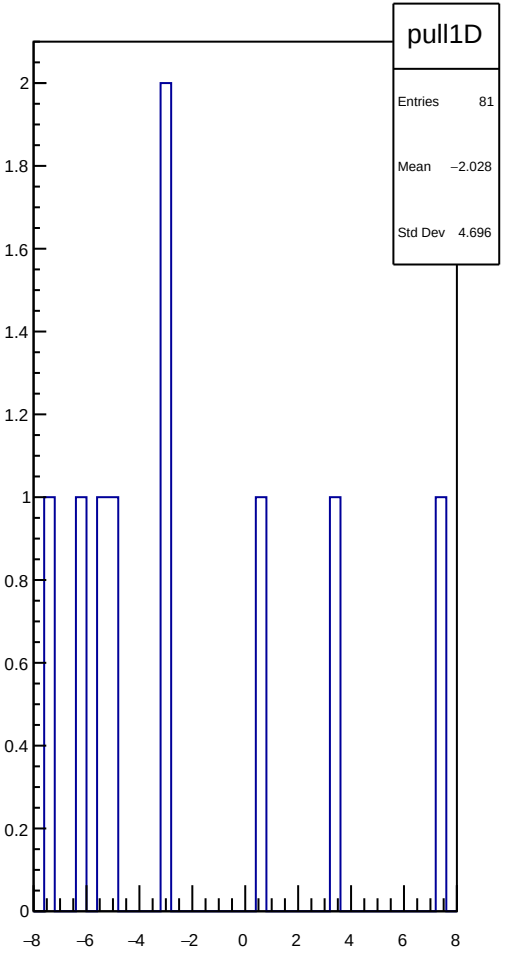

yield_usr_rms vs run
χ^2 / ndf 9.978e+04 / 80
p0 0.06861 ± 5.699e–05
0.18
0.16
0.14
0.12
0.1
0.08
0.06

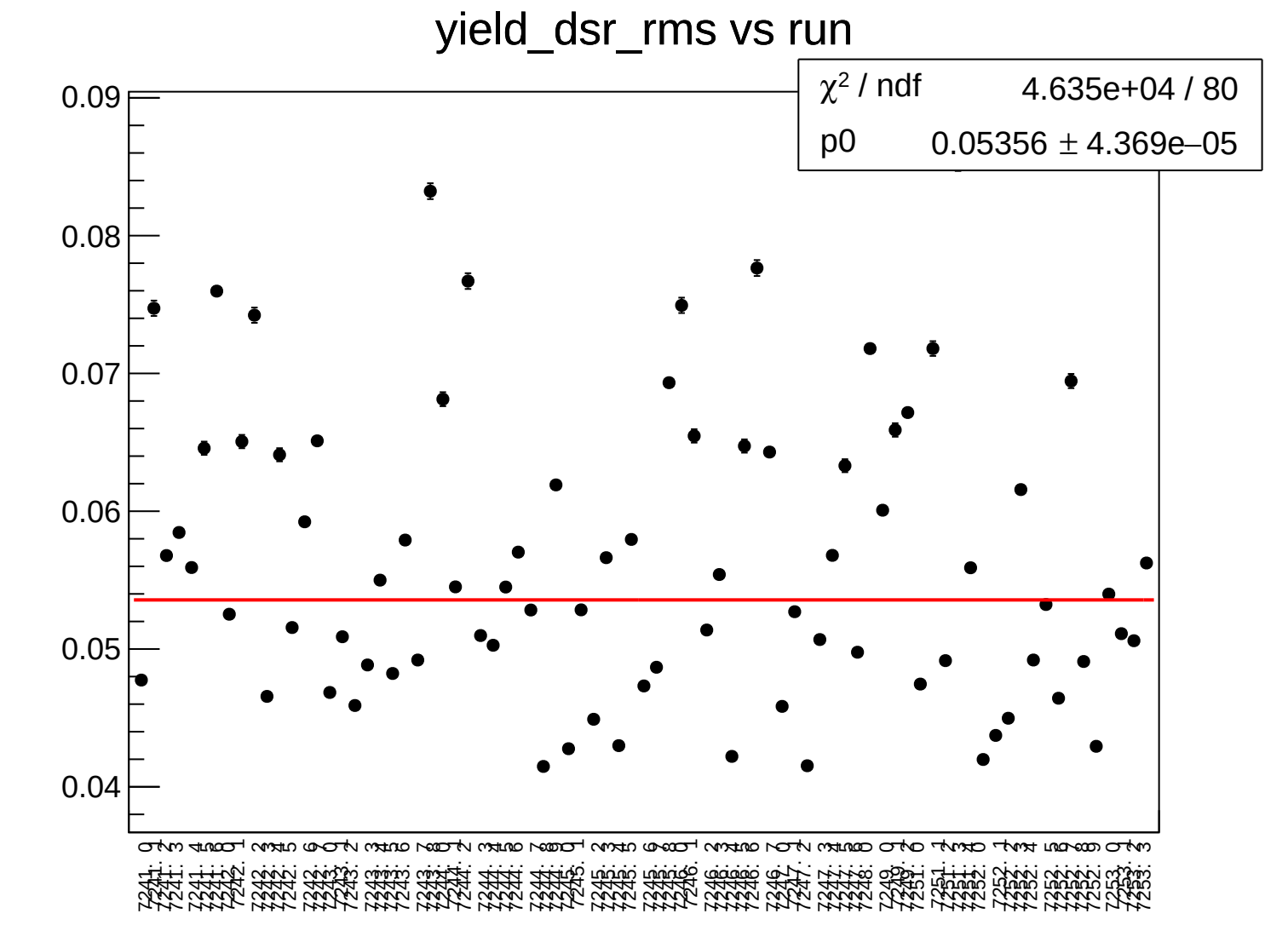

yield_dsl_mean vs run
χ² / ndf 2.119e+06 / 80
p0 −23.83 ± 5.695e−05
−23.65
−23.7
−23.75
−23.8
−23.85
−23.9
−23.95
−24
−24.05
pull
Entries 81
Mean −840.1
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400

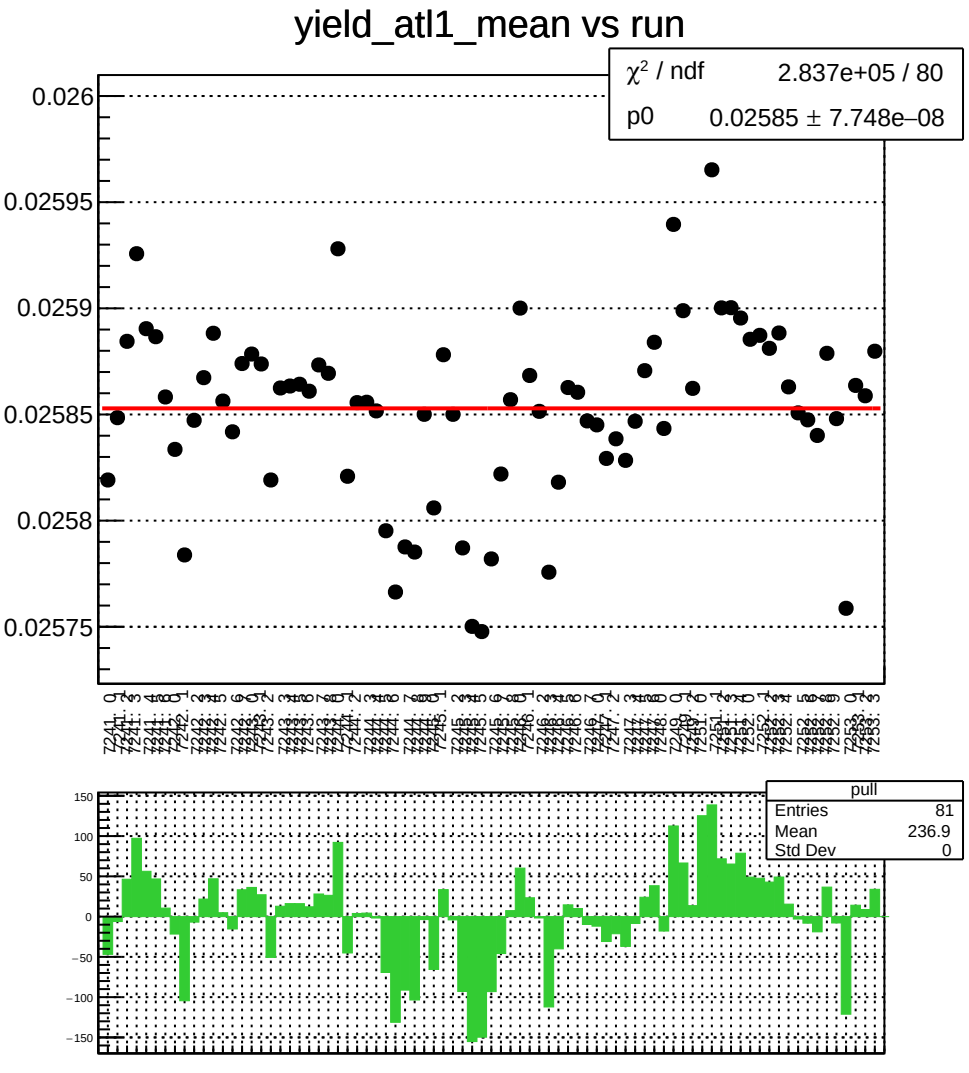

pull1D
Entries 81
Mean 2.695
Std Dev 4.338
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

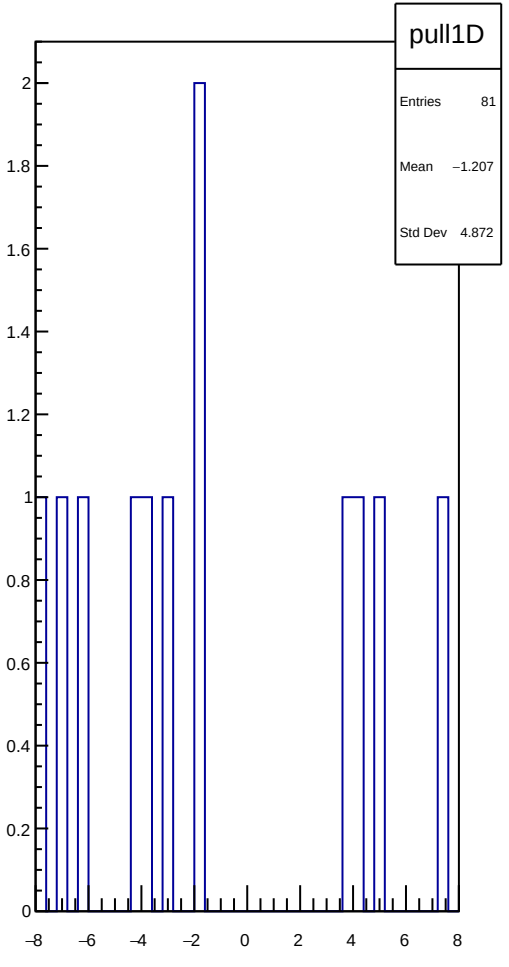

yield_dsl_rms vs run
χ² / ndf 5.056e+04 / 80
p0 0.0493 ± 4.027e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03

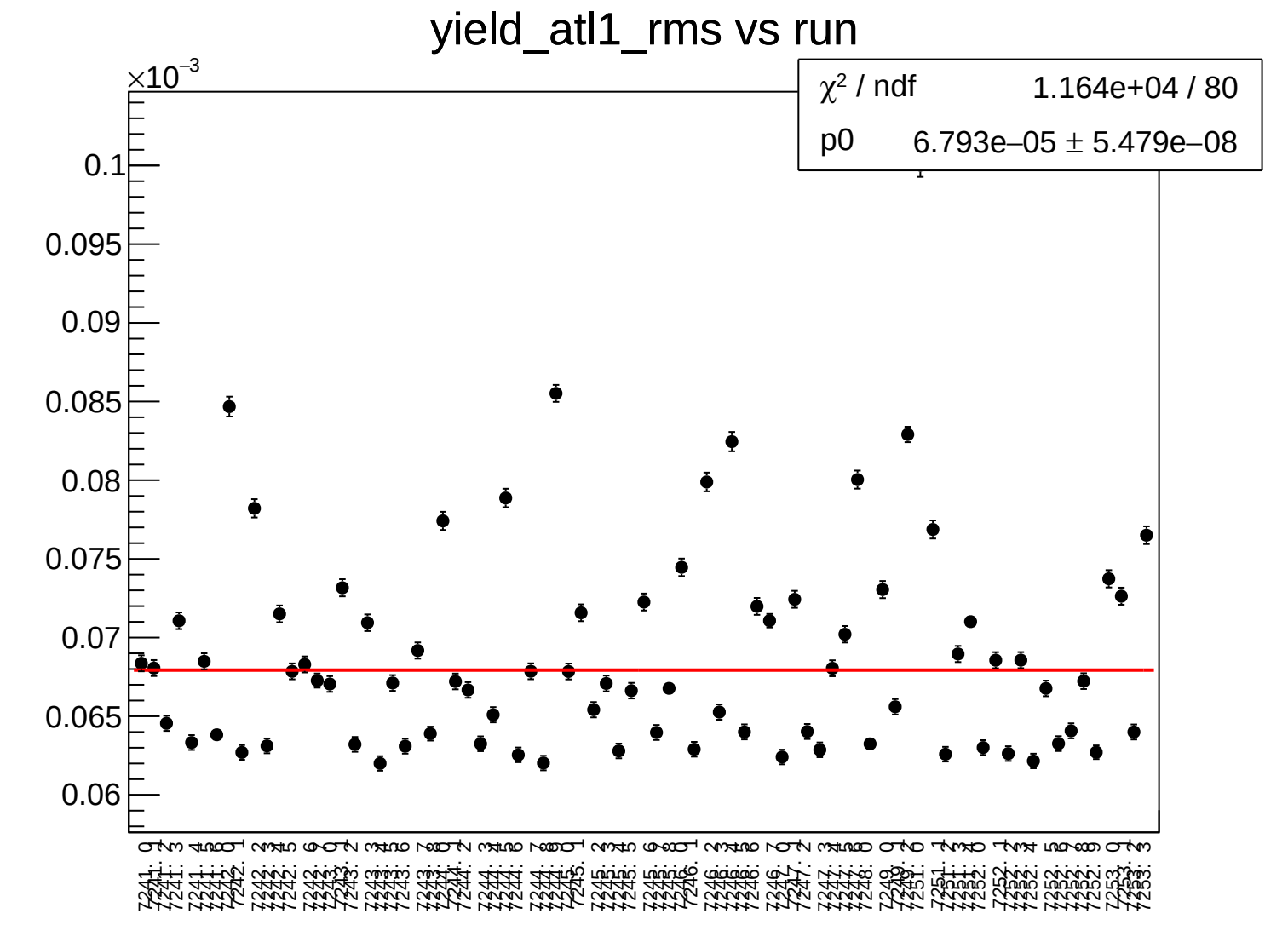

yield_dsr_mean vs run
χ² / ndf 6.188e+05 / 80
p0 −25.42 ± 6.179e−05
−25.3
−25.35
−25.4
−25.45
−25.5
−25.55
pull
Entries 81
Mean −50.24
Std Dev 0
200
100
0
−100
−200
−300

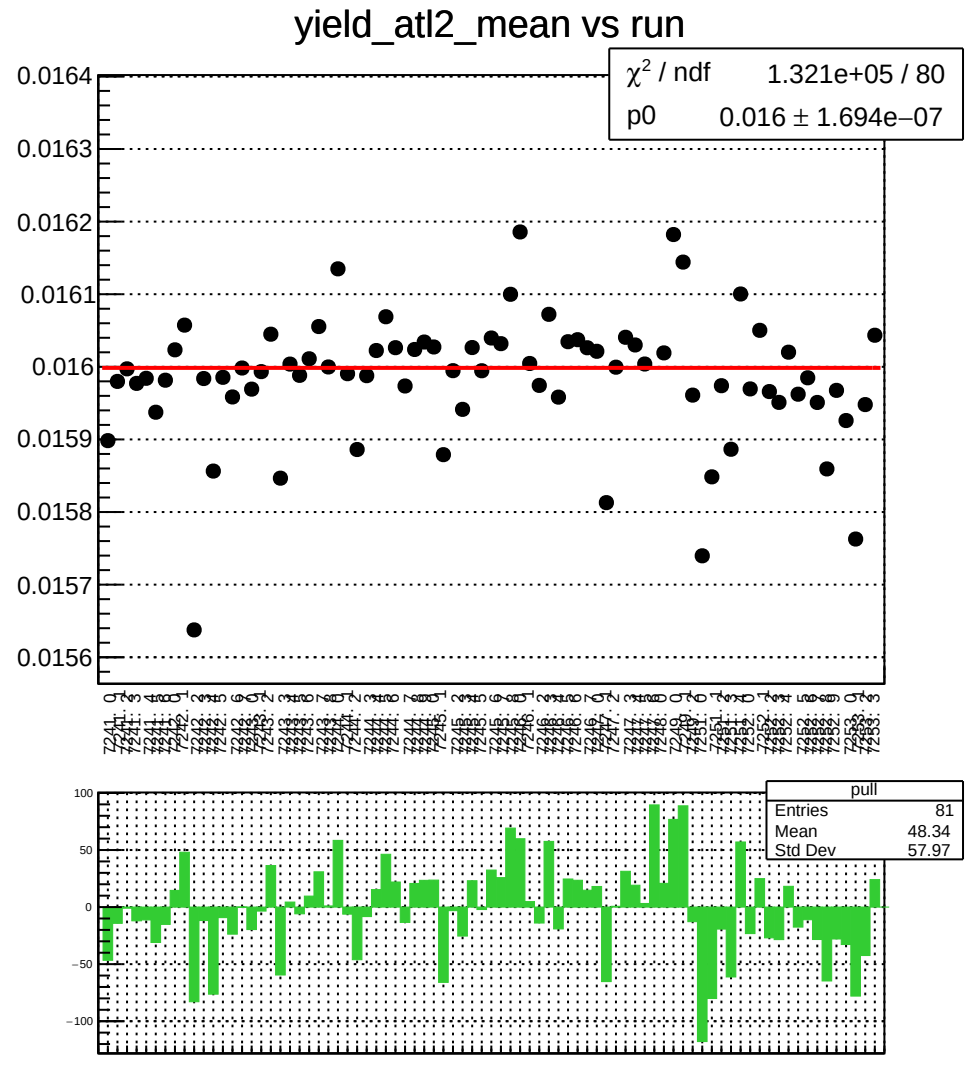

pull1D
Entries 81
Mean −2.028
Std Dev 4.696
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

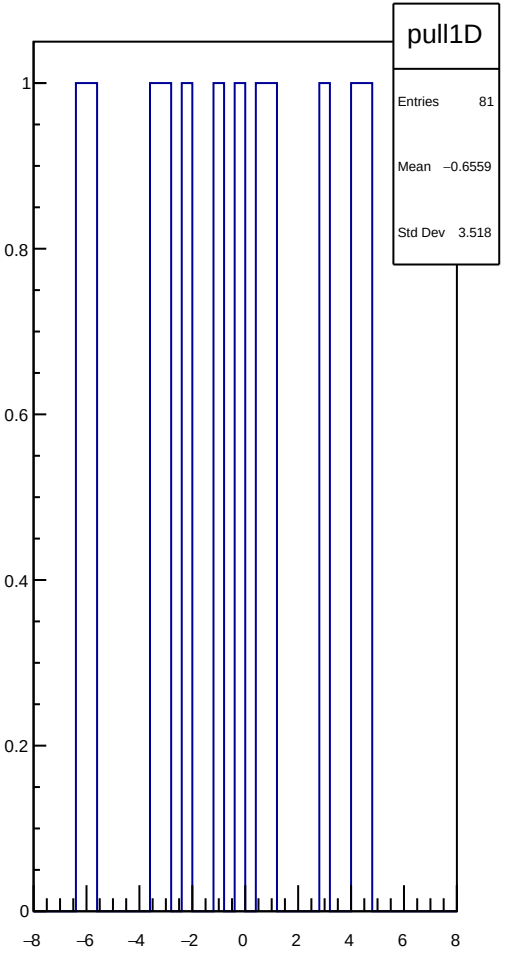

yield_dsr_rms vs run
χ² / ndf 4.635e+04 / 80
p0 0.05356 ± 4.369e−05
0.09
0.08
0.07
0.06
0.05
0.04

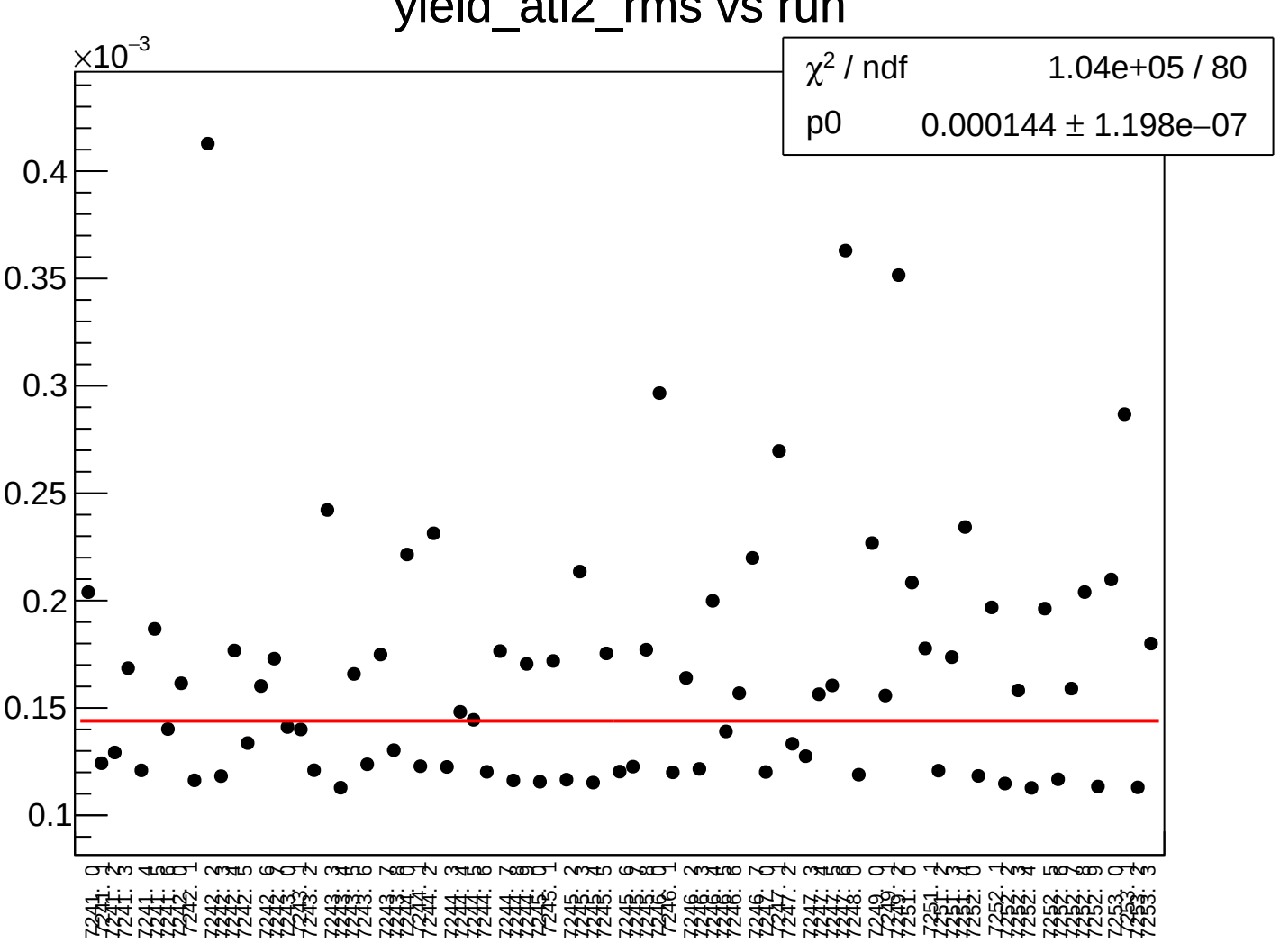

yield_atl1_mean vs run
χ² / ndf 2.837e+05 / 80
p0 0.02585 ± 7.748e−08
0.026
0.02595
0.0259
0.02585
0.0258
0.02575
pull
Entries 81
Mean 236.9
Std Dev 0
150
100
50
0
−50
−100
−150

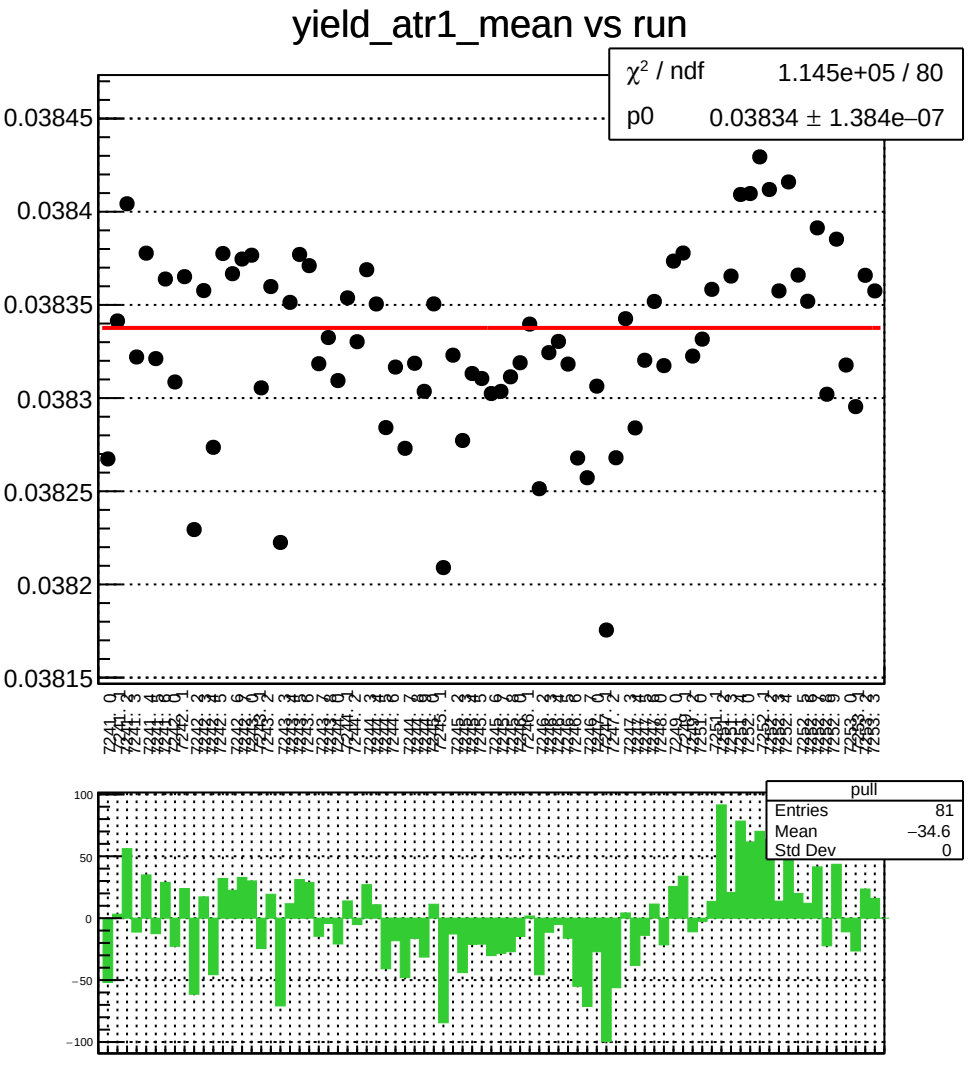

pull1D
Entries 81
Mean −1.207
Std Dev 4.872
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

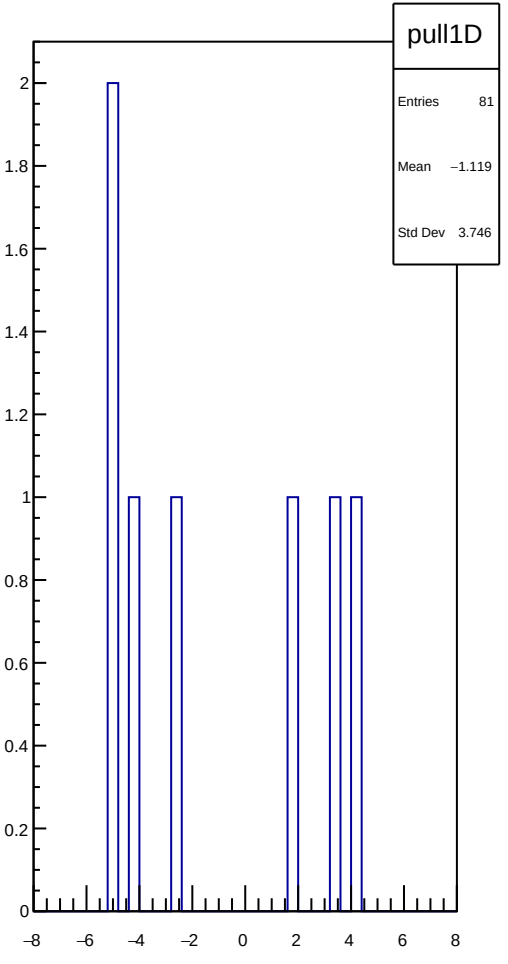

yield_atl1_rms vs run
×10⁻³
χ² / ndf 1.164e+04 / 80
p0 6.793e−05 ± 5.479e−08
0.1
0.095
0.09
0.085
0.08
0.075
0.07
0.065
0.06

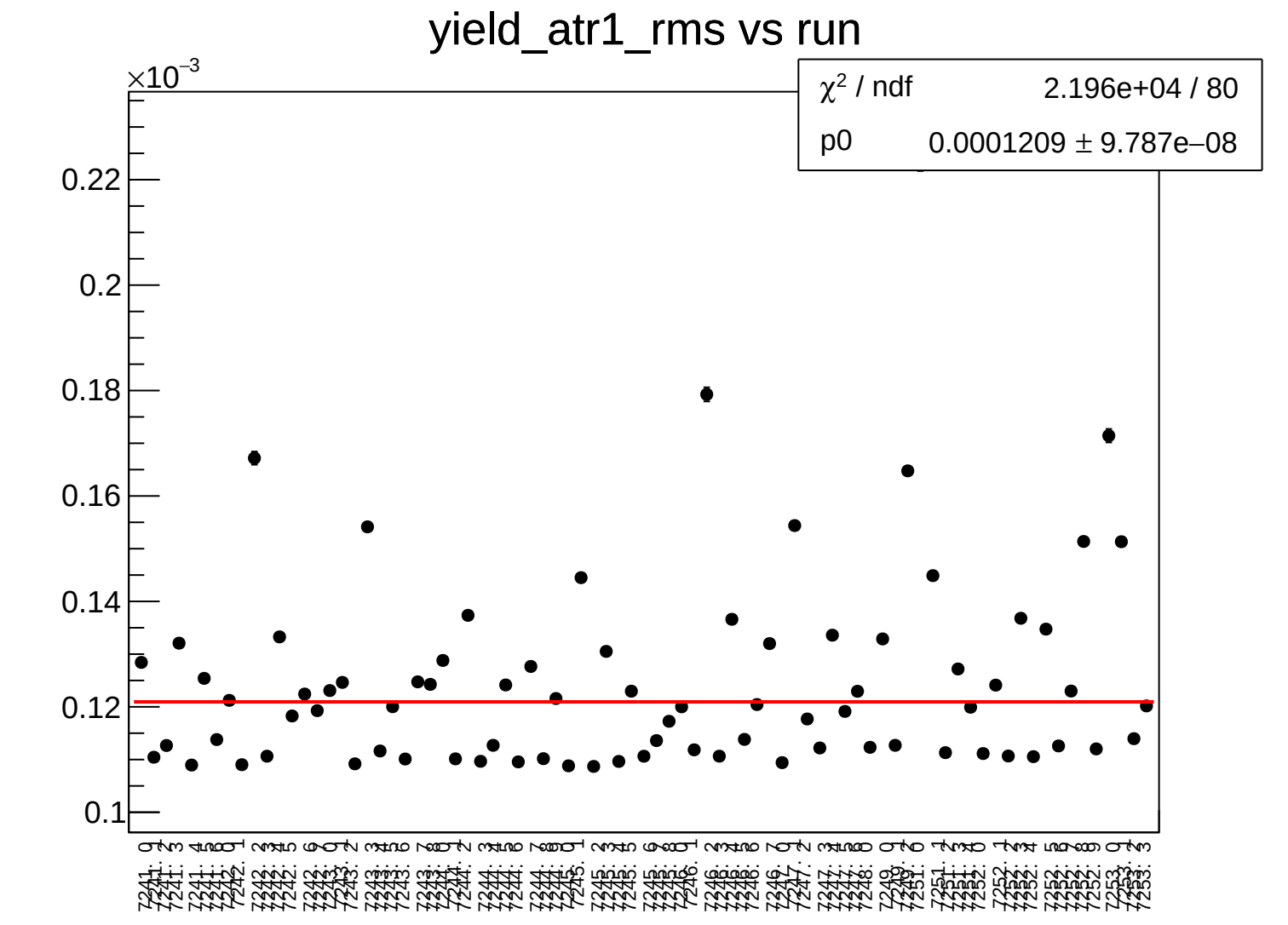

yield_atl2_mean vs run
χ² / ndf 1.321e+05 / 80
p0 0.016 ± 1.694e−07
0.0164
0.0163
0.0162
0.0161
0.016
0.0159
0.0158
0.0157
0.0156
pull
Entries 81
Mean 48.34
Std Dev 57.97
100
50
0
−50
−100

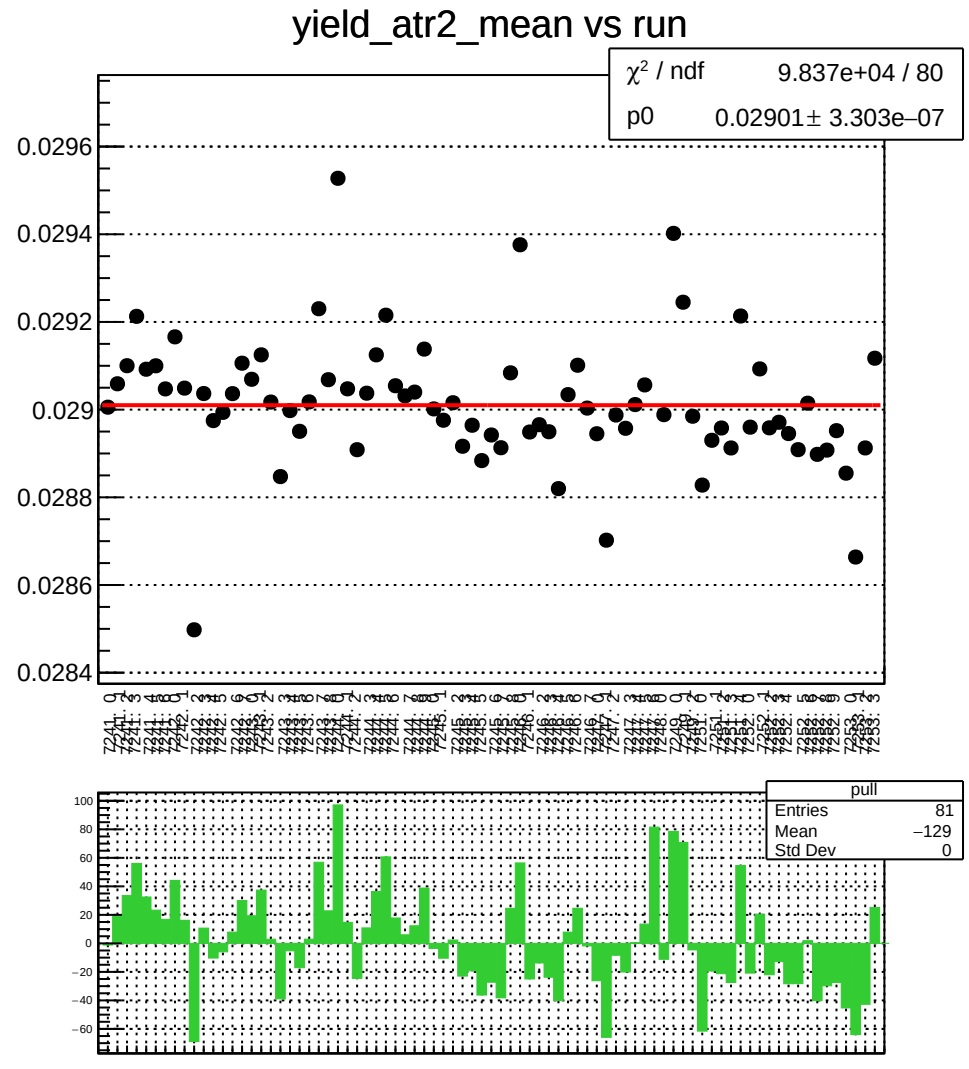

pull1D
Entries 81
Mean −0.6559
Std Dev 3.518
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

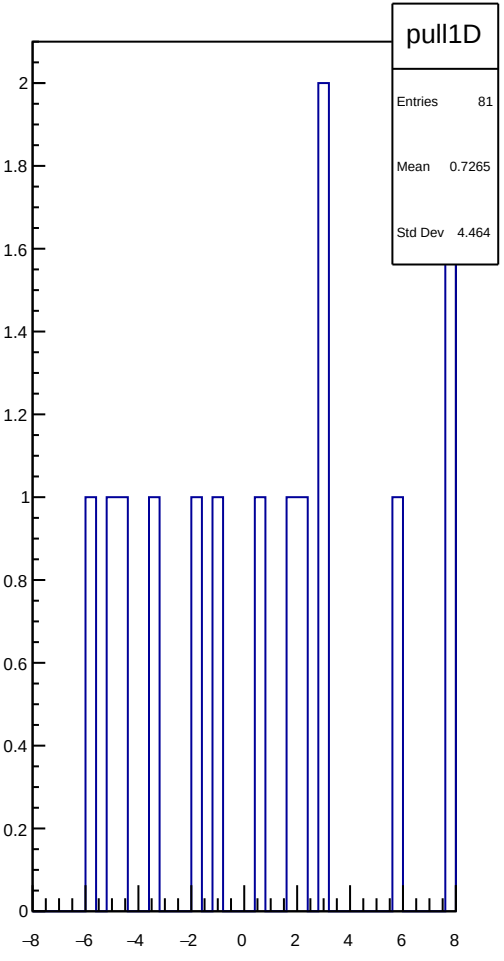

yield_atl2_rms vs run
×10⁻³
χ² / ndf 1.04e+05 / 80
p0 0.000144 ± 1.198e−07
0.4
0.35
0.3
0.25
0.2
0.15
0.1

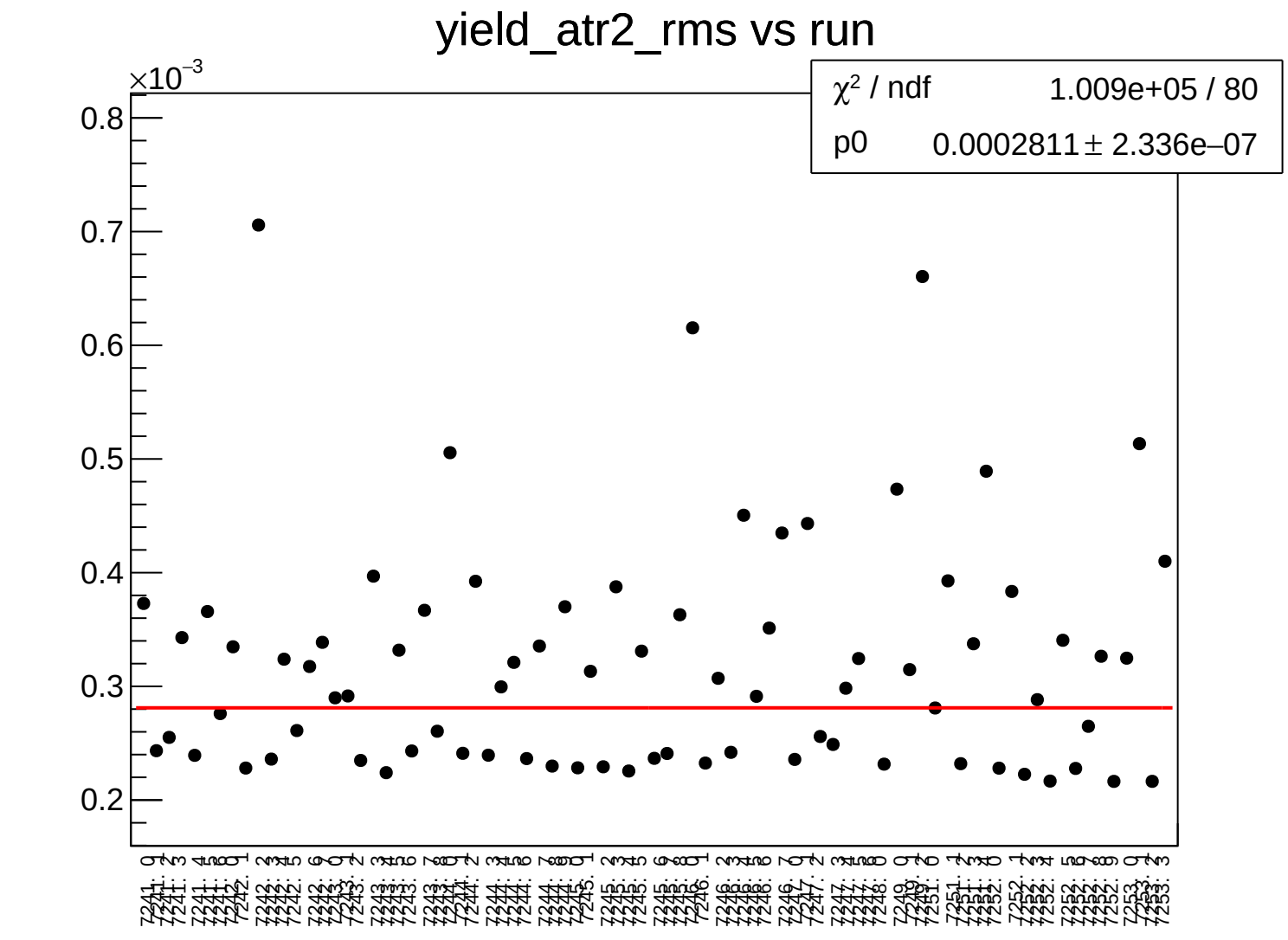

yield_atr1_mean vs run
χ² / ndf 1.145e+05 / 80
p0 0.03834 ± 1.384e−07
0.03845
0.0384
0.03835
0.0383
0.03825
0.0382
0.03815
pull
Entries 81
Mean −34.6
Std Dev 0
100
50
0
−50
−100

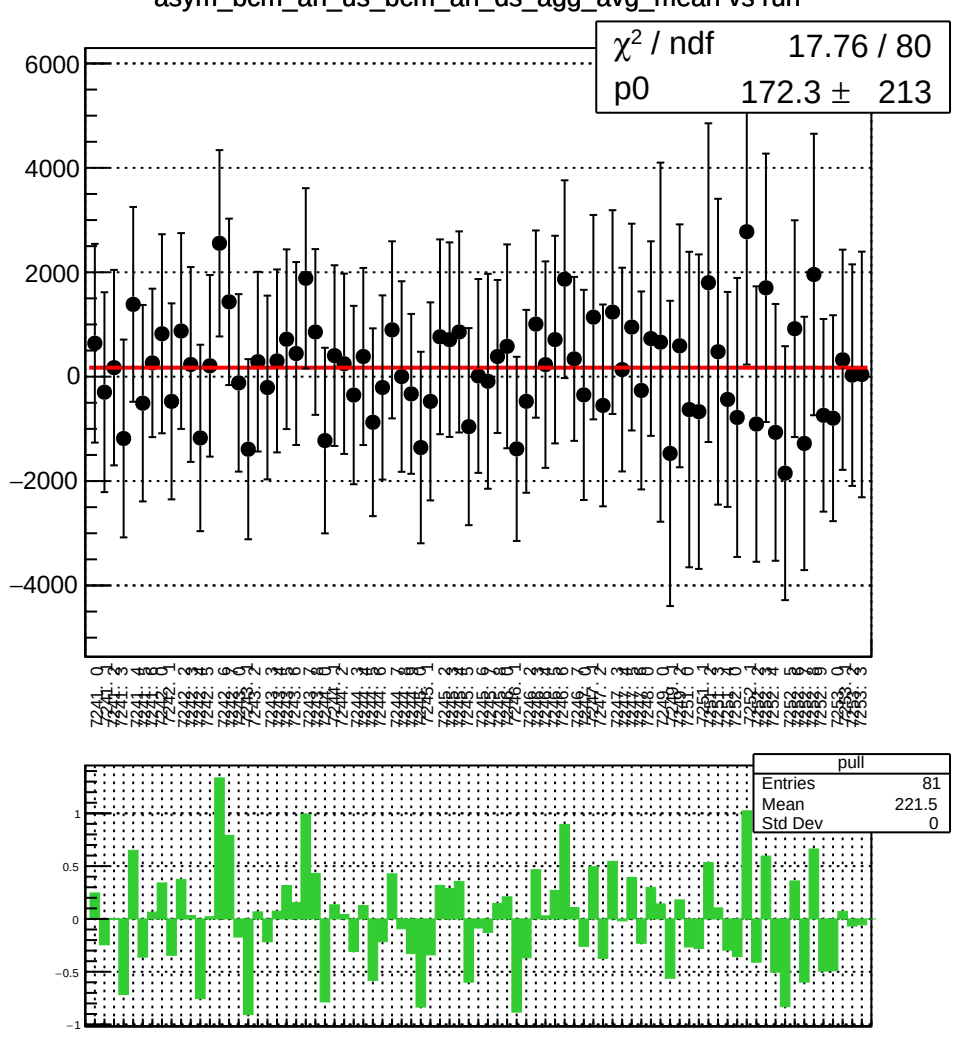

pull1D
Entries 81
Mean −1.119
Std Dev 3.746
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

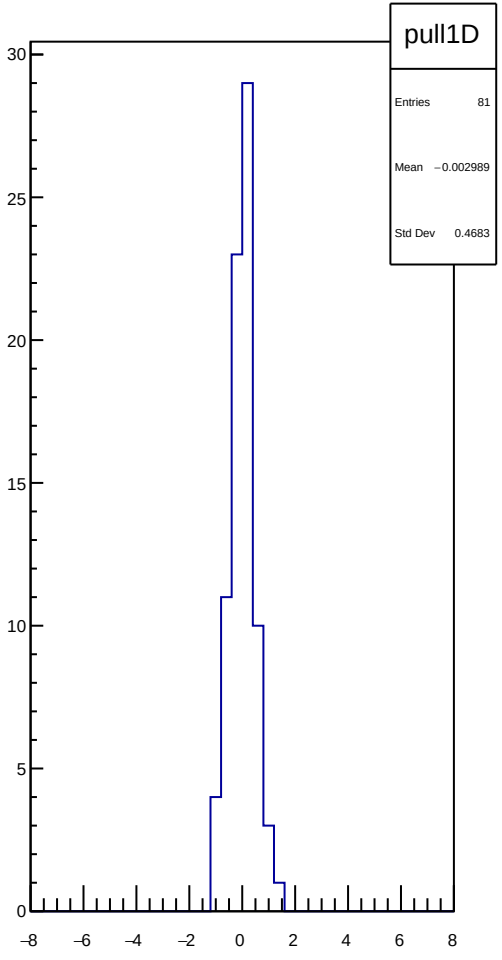

yield_atr1_rms vs run
×10⁻³
χ² / ndf 2.196e+04 / 80
p0 0.0001209 ± 9.787e−08
0.22
0.2
0.18
0.16
0.14
0.12
0.1

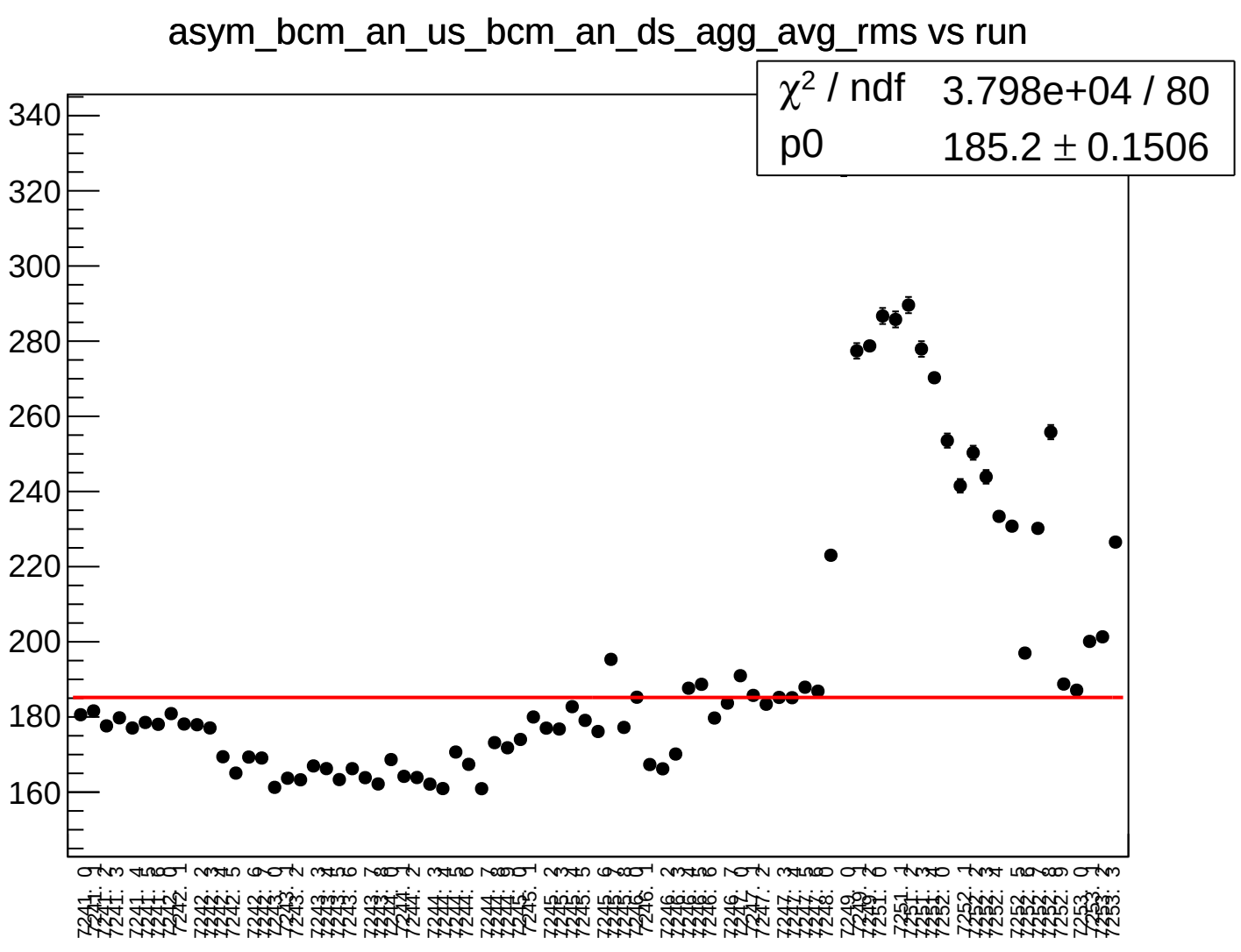

yield_atr2_mean vs run
χ² / ndf 9.837e+04 / 80
p0 0.02901± 3.303e−07
0.0296
0.0294
0.0292
0.029
0.0288
0.0286
0.0284
pull
Entries 81
Mean −129
Std Dev 0
100
80
60
40
20
0
−20
−40
−60

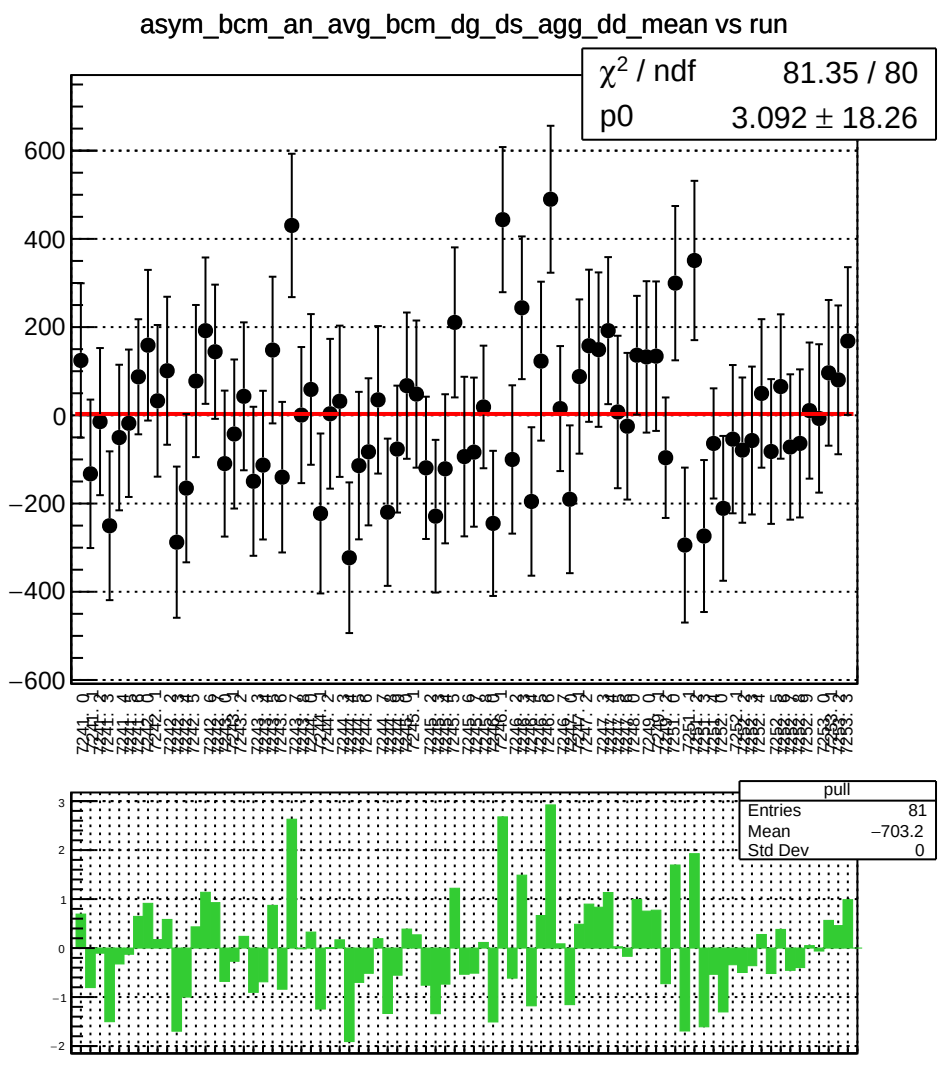

pull1D
Entries 81
Mean 0.7265
Std Dev 4.464
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

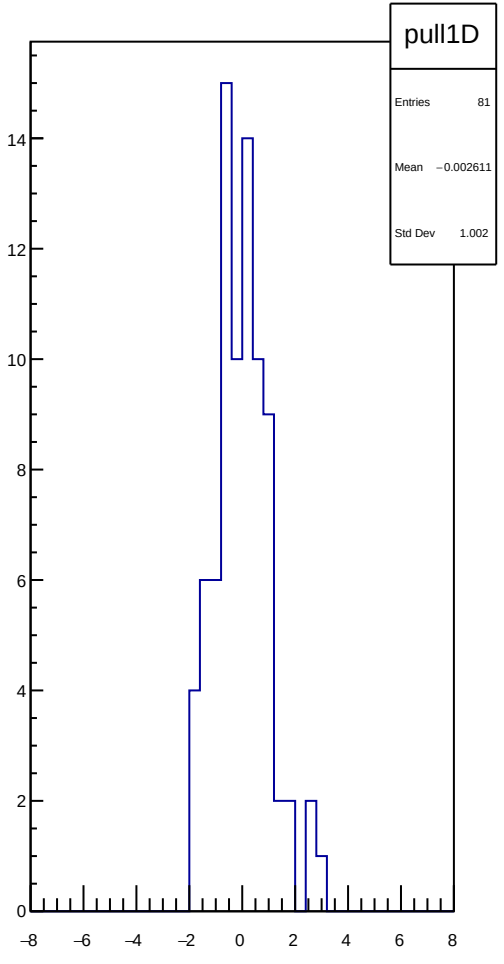

yield_atr2_rms vs run
×10⁻³
χ² / ndf 1.009e+05 / 80
p0 0.0002811 ± 2.336e−07
0.8
0.7
0.6
0.5
0.4
0.3
0.2

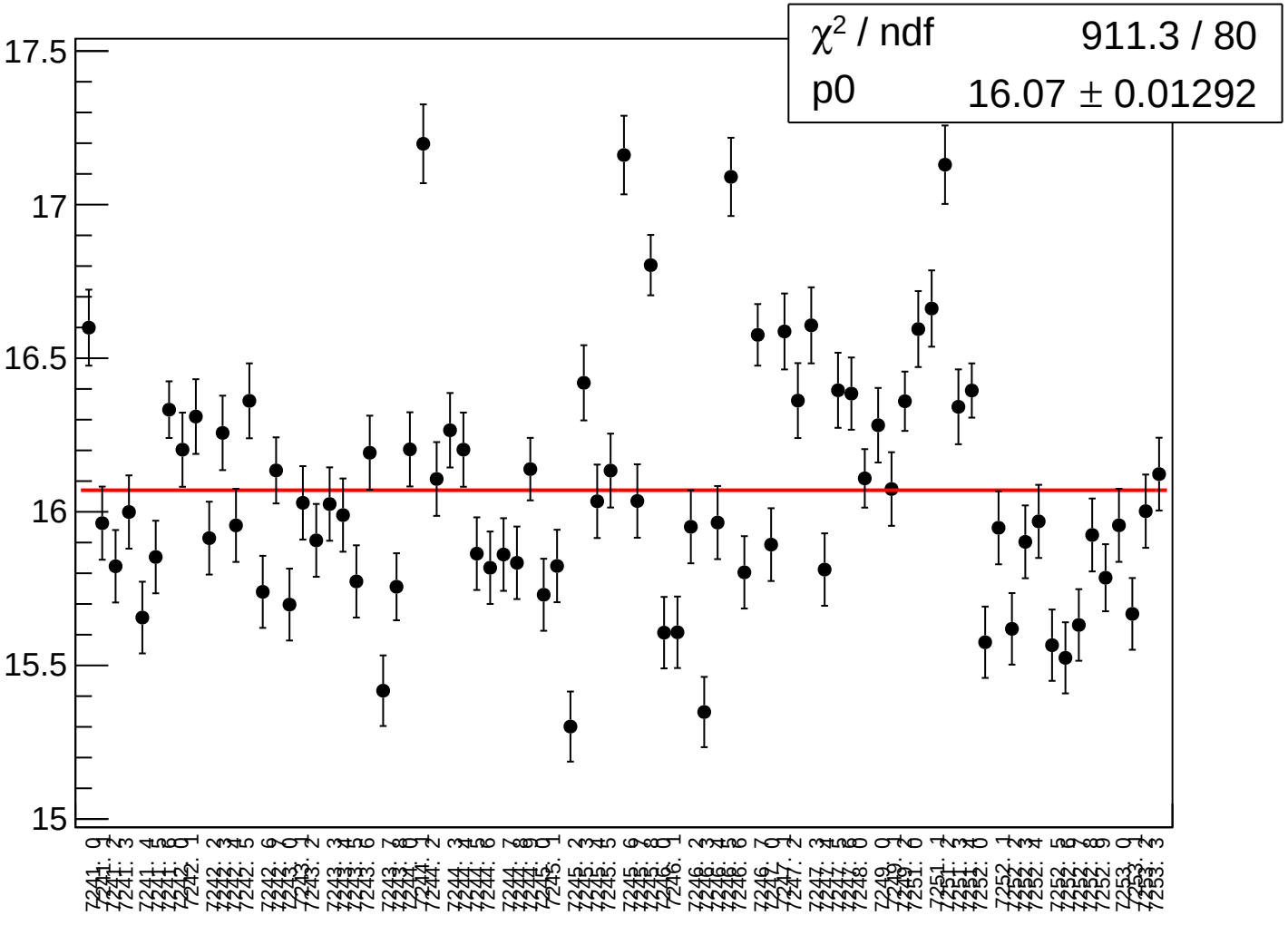

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 17.76 / 80
p0 172.3 ± 213
pull
Entries 81
Mean 221.5
Std Dev 0

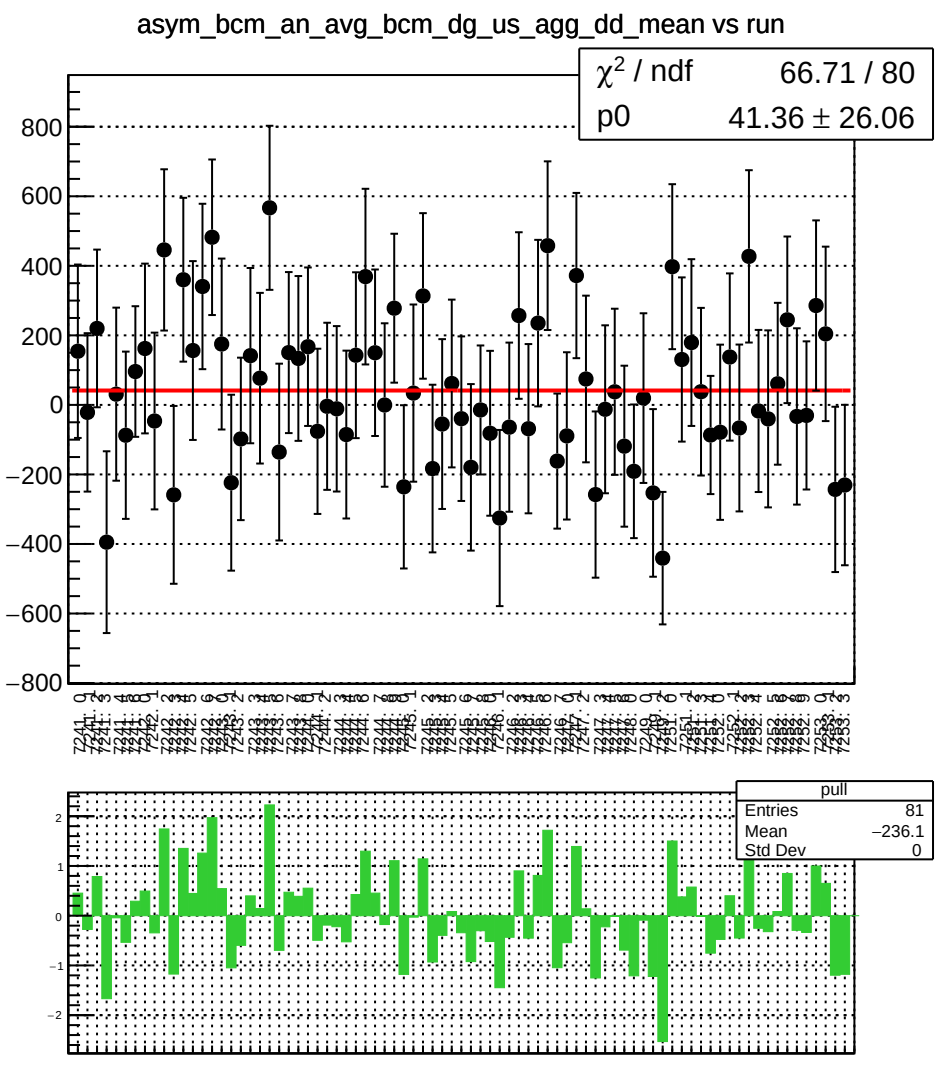

pull1D
Entries 81
Mean −0.002989
Std Dev 0.4683

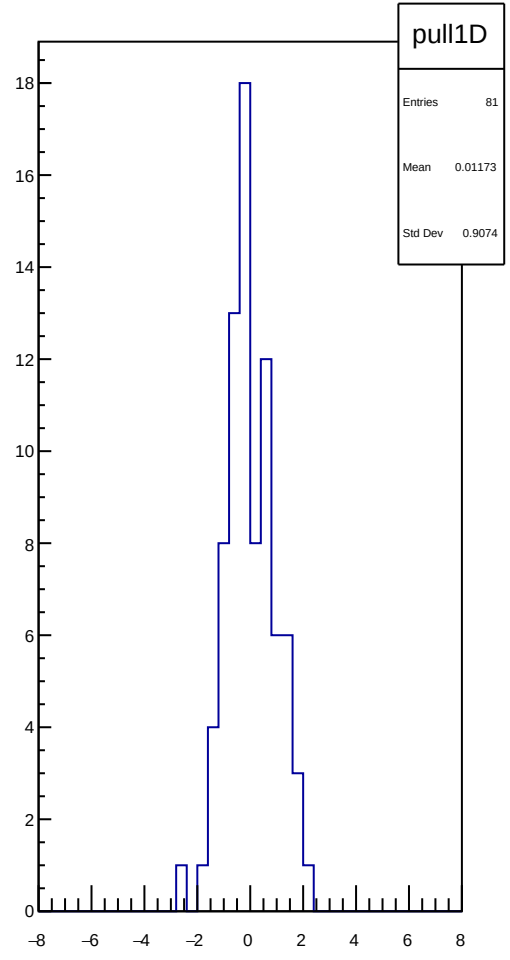

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3.798e+04 / 80
p0 185.2 ± 0.1506
340
320
300
280
260
240
220
200
180
160

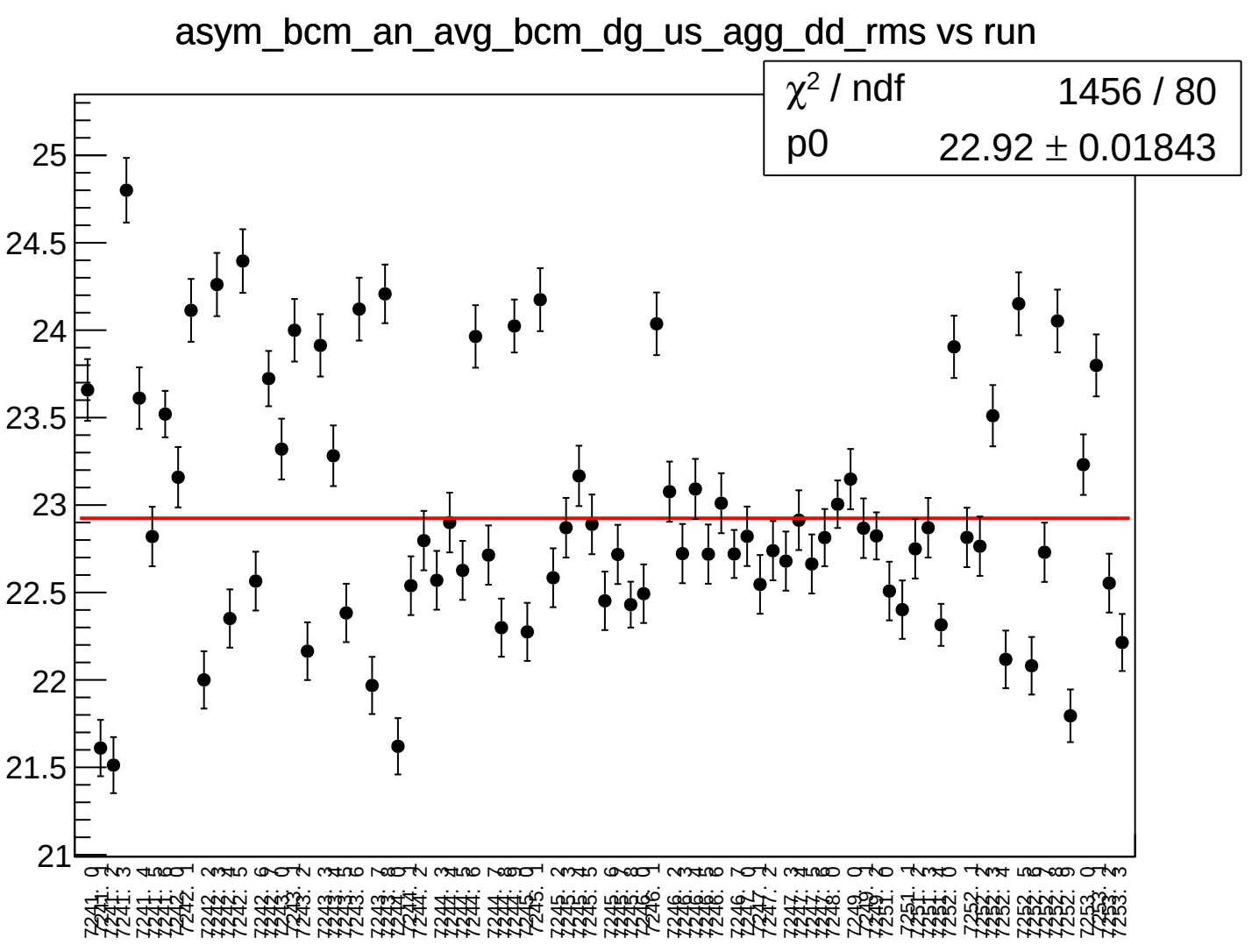

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 81.35 / 80
p0 3.092 ± 18.26
pull
Entries 81
Mean −703.2
Std Dev 0

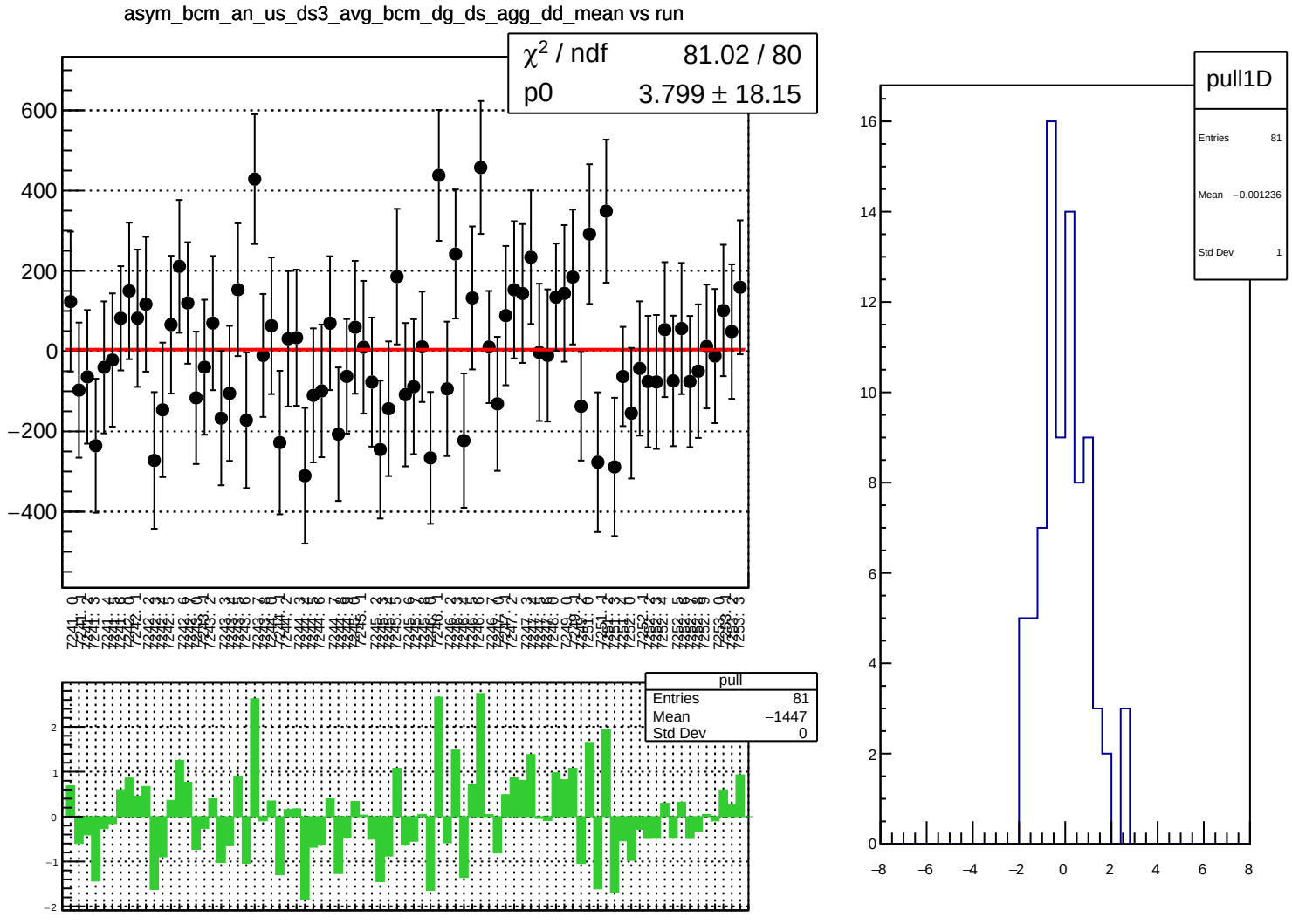

pull1D
Entries 81
Mean −0.002611
Std Dev 1.002

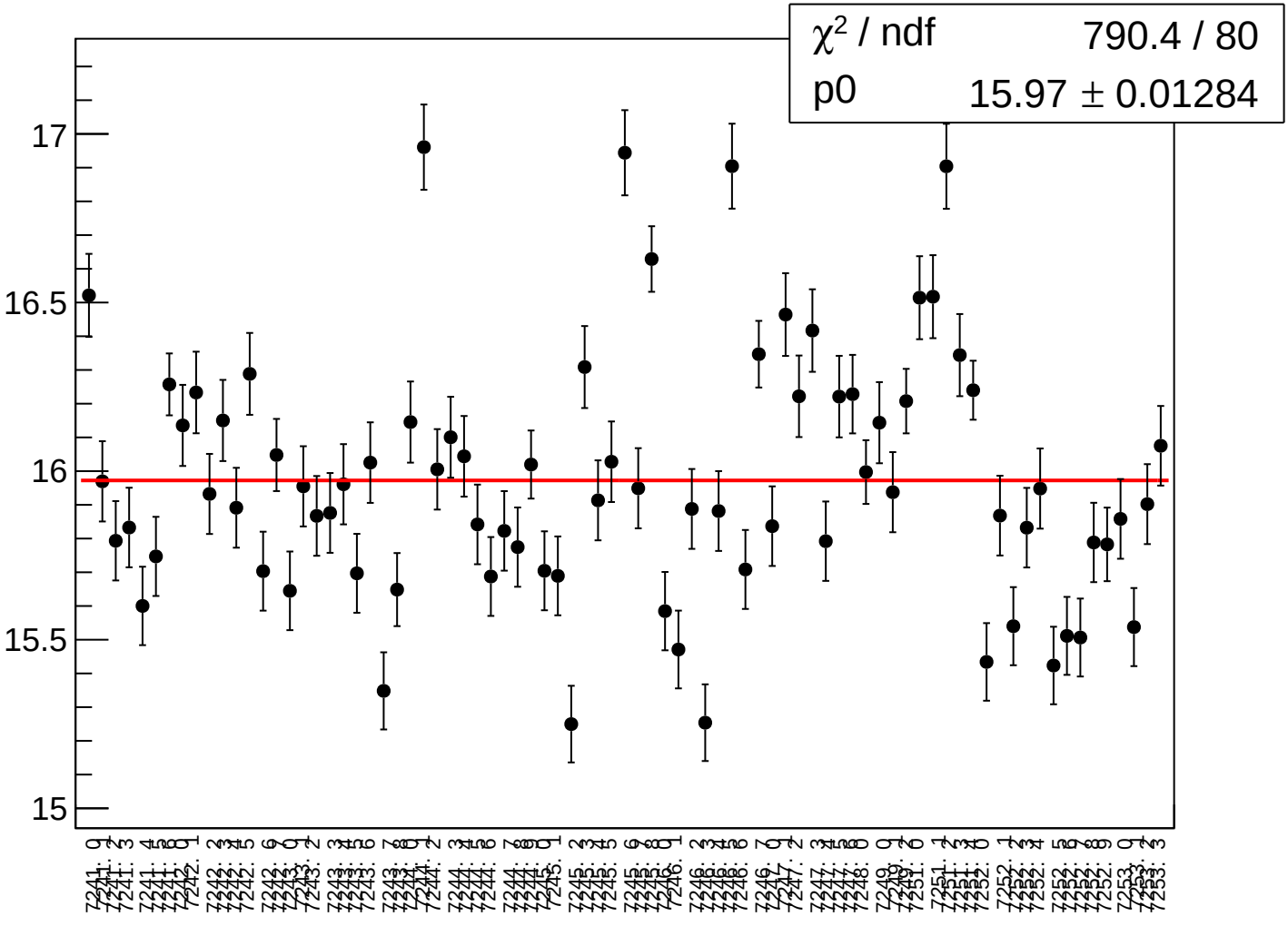

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 911.3 / 80
p0 16.07 ± 0.01292
17.5
17
16.5
16
15.5
15

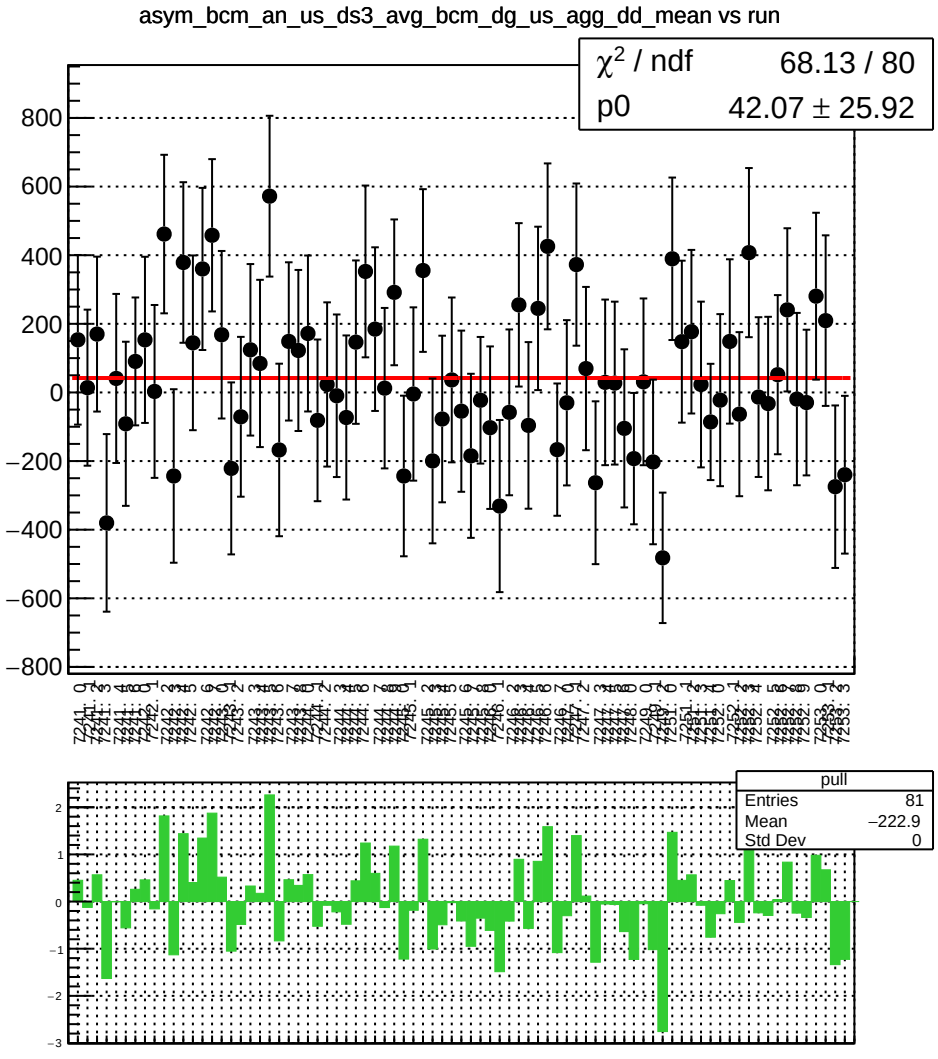

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 66.71 / 80
p0 41.36 ± 26.06
pull
Entries 81
Mean −236.1
Std Dev 0

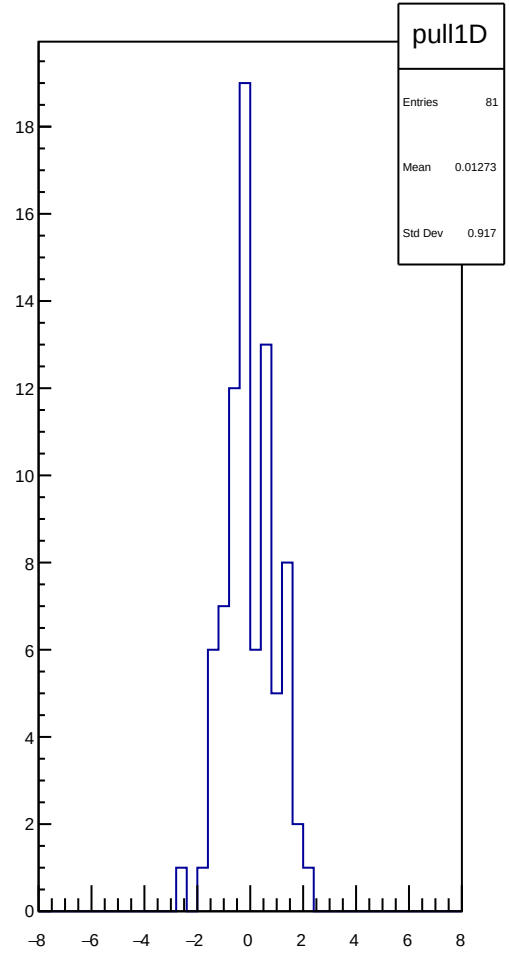

pull1D
Entries 81
Mean 0.01173
Std Dev 0.9074

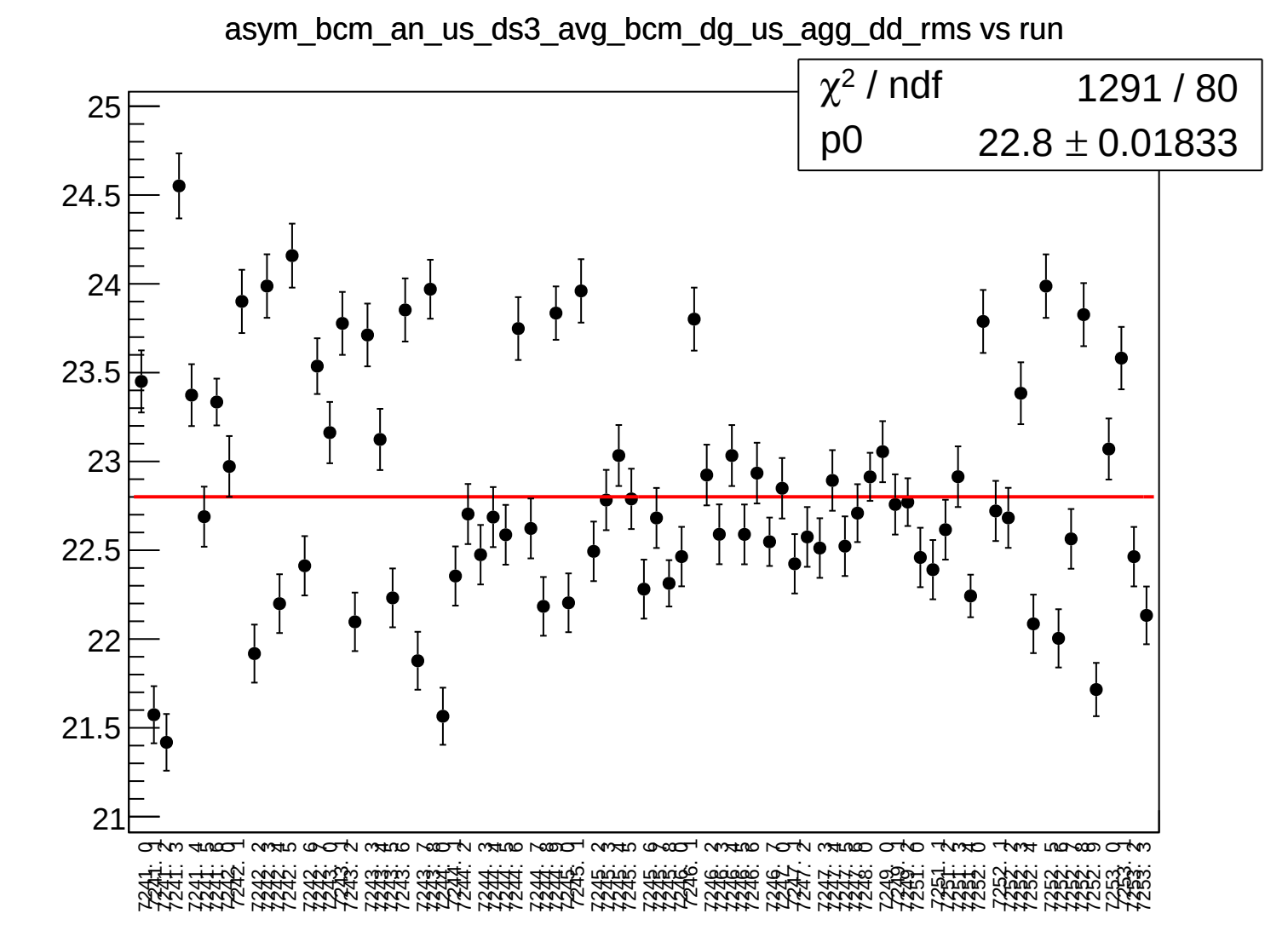

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1456 / 80
p0 22.92 ± 0.01843
25
24.5
24
23.5
23
22.5
22
21.5
21

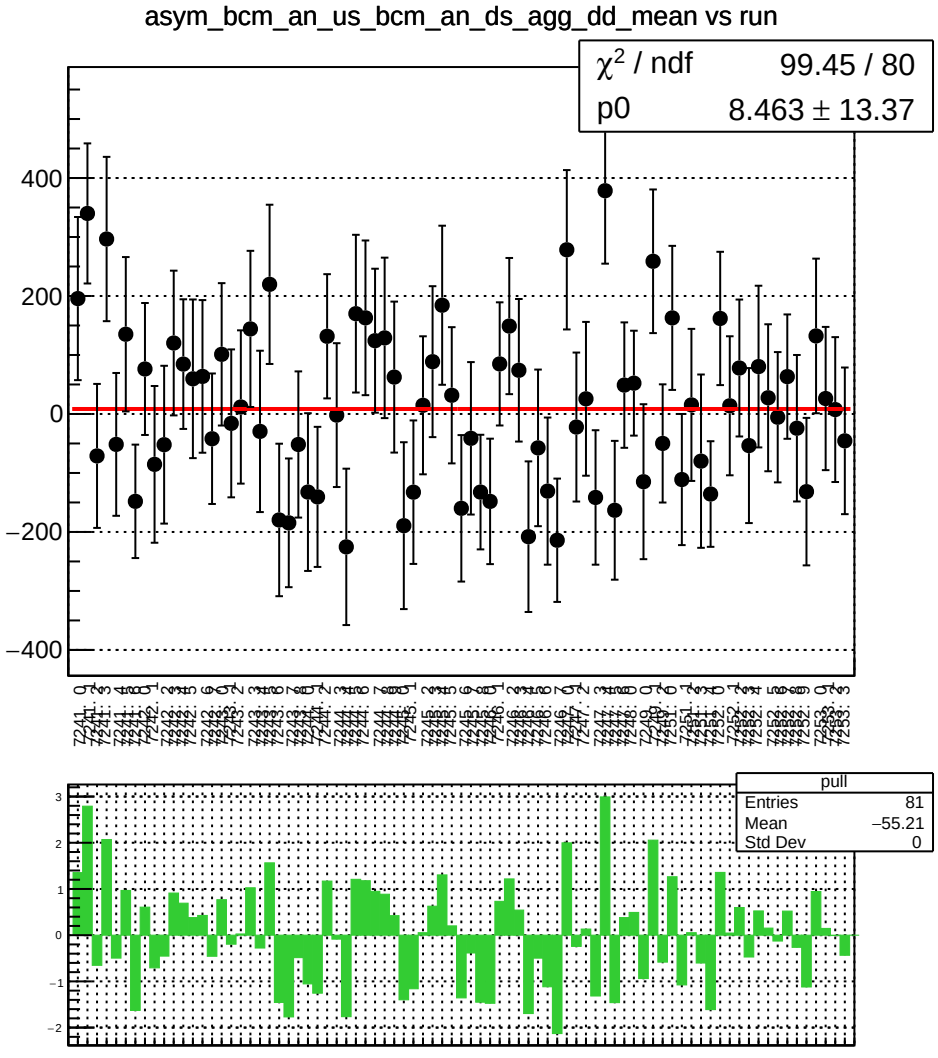

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 81.02 / 80
p0 3.799 ± 18.15
pull
Entries 81
Mean −1447
Std Dev 0
pull1D
Entries 81
Mean −0.001236
Std Dev 1

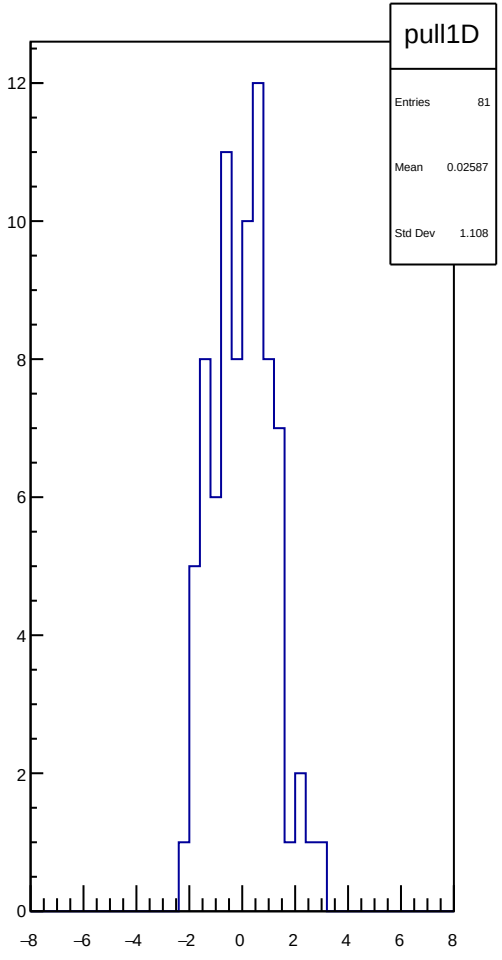

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 790.4 / 80
p0 15.97 ± 0.01284
17
16.5
16
15.5
15

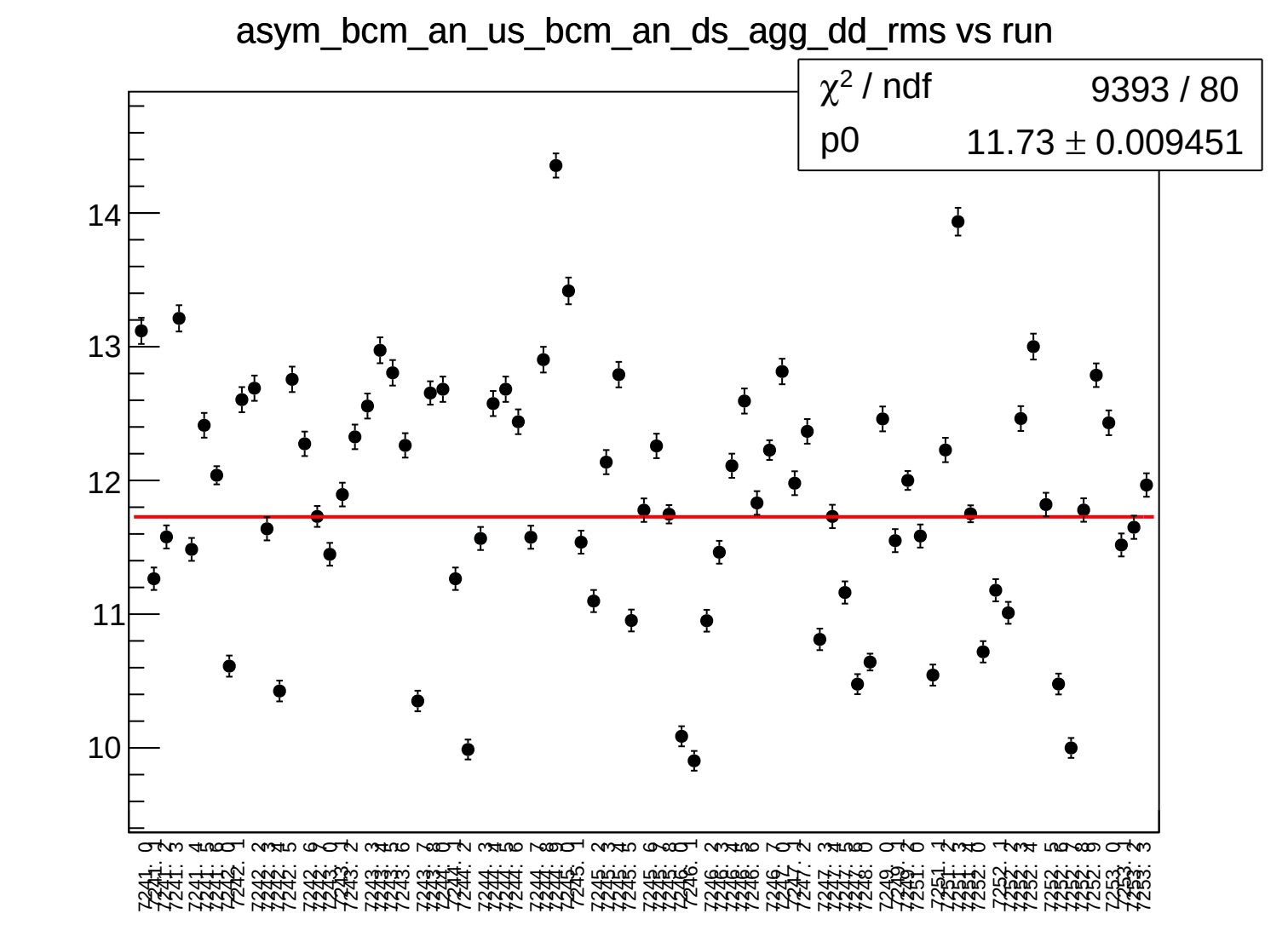

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 68.13 / 80
p0 42.07 ± 25.92
pull
Entries 81
Mean −222.9
Std Dev 0

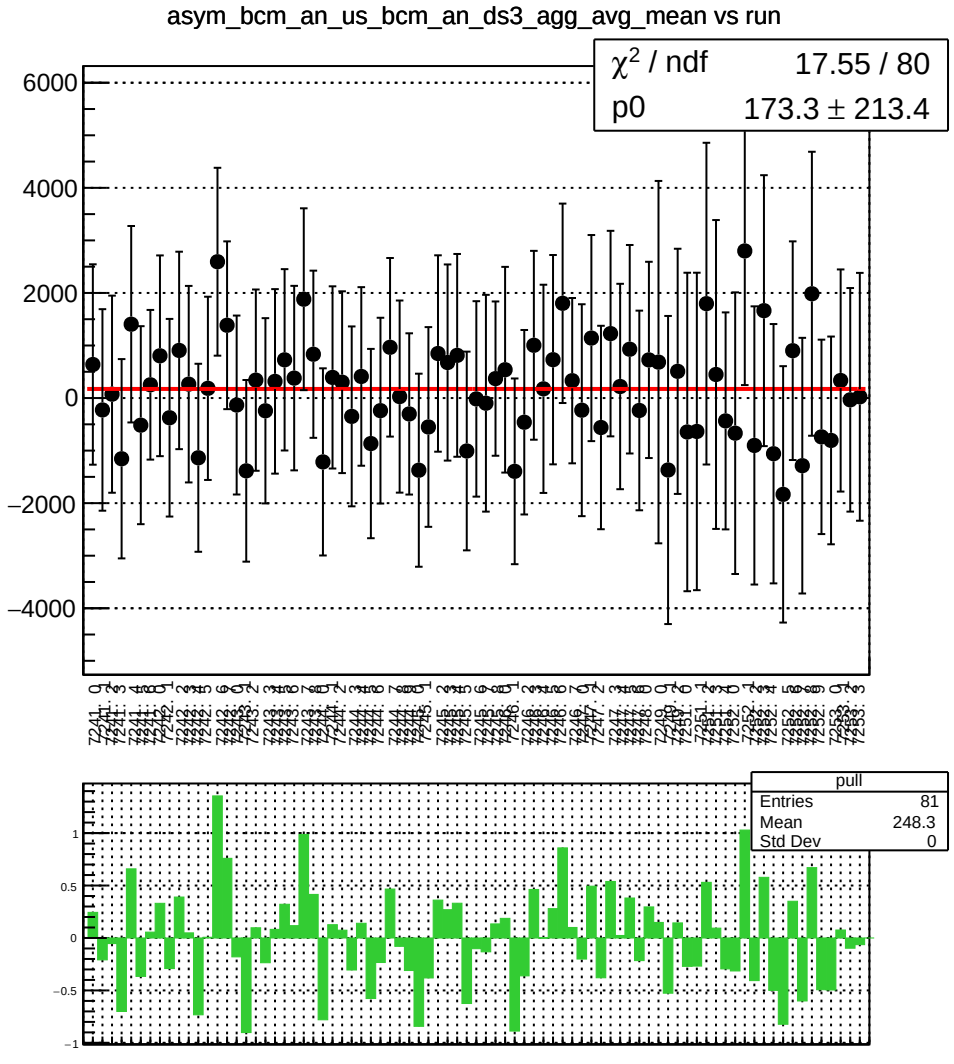

pull1D
Entries 81
Mean 0.01273
Std Dev 0.917

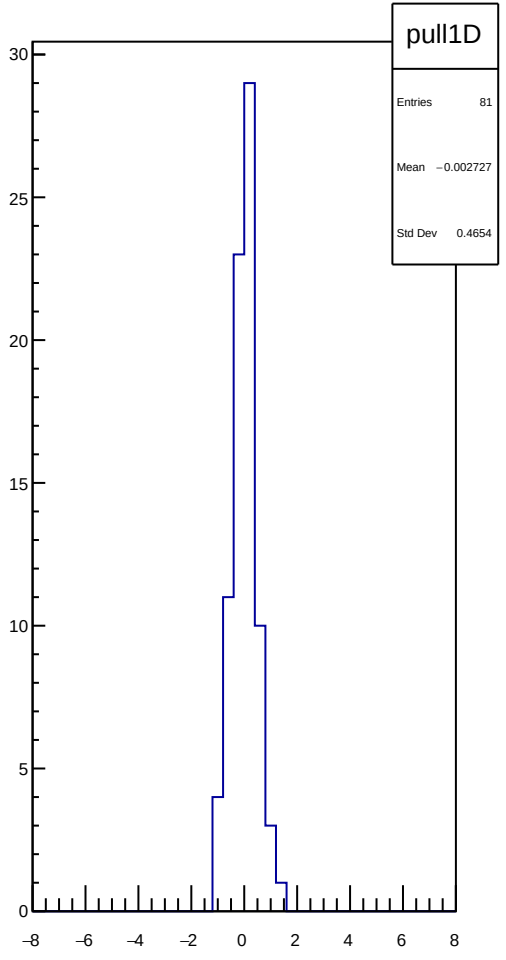

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1291 / 80
p0 22.8 ± 0.01833
25
24.5
24
23.5
23
22.5
22
21.5
21

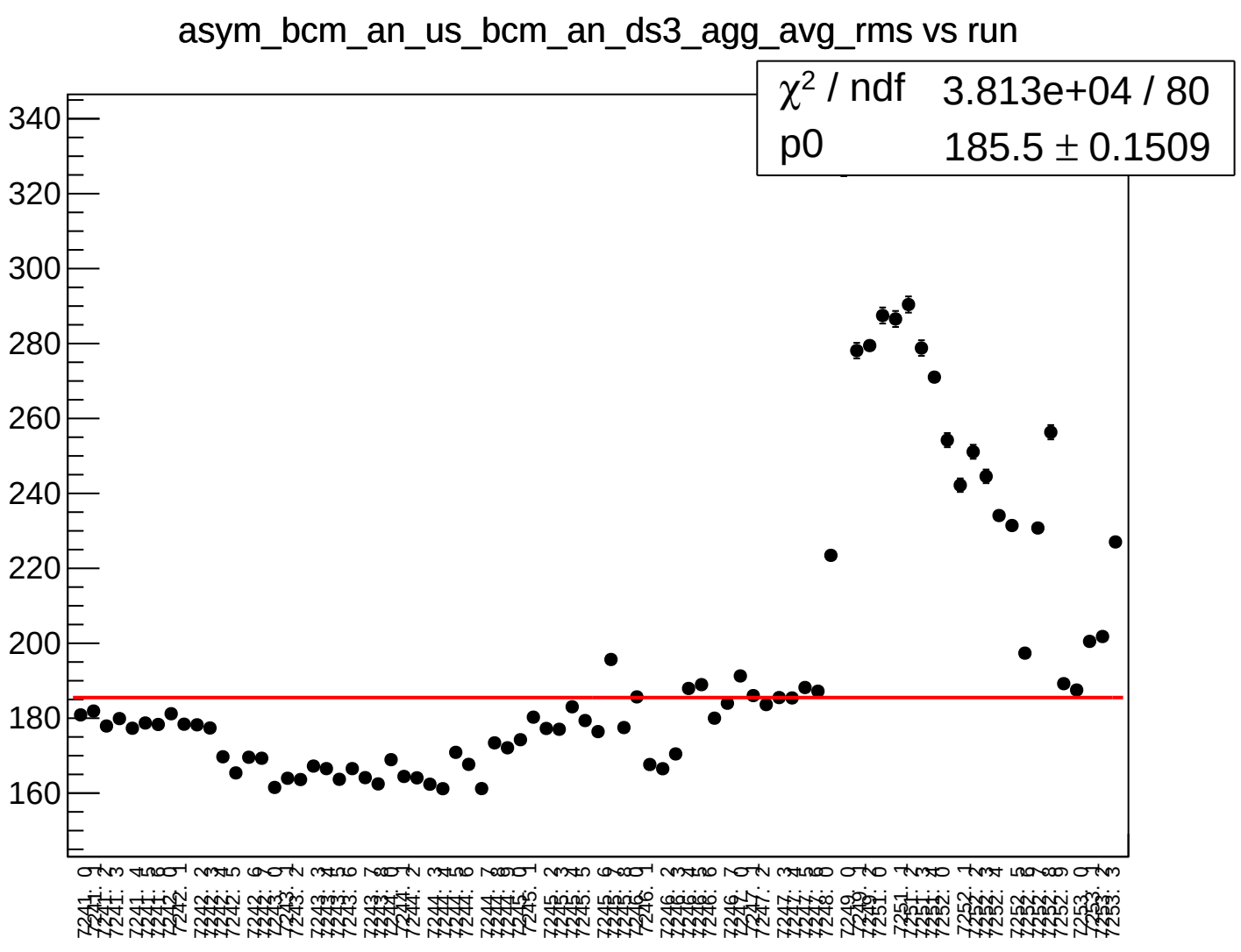

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 99.45 / 80
p0 8.463 ± 13.37
pull
Entries 81
Mean −55.21
Std Dev 0

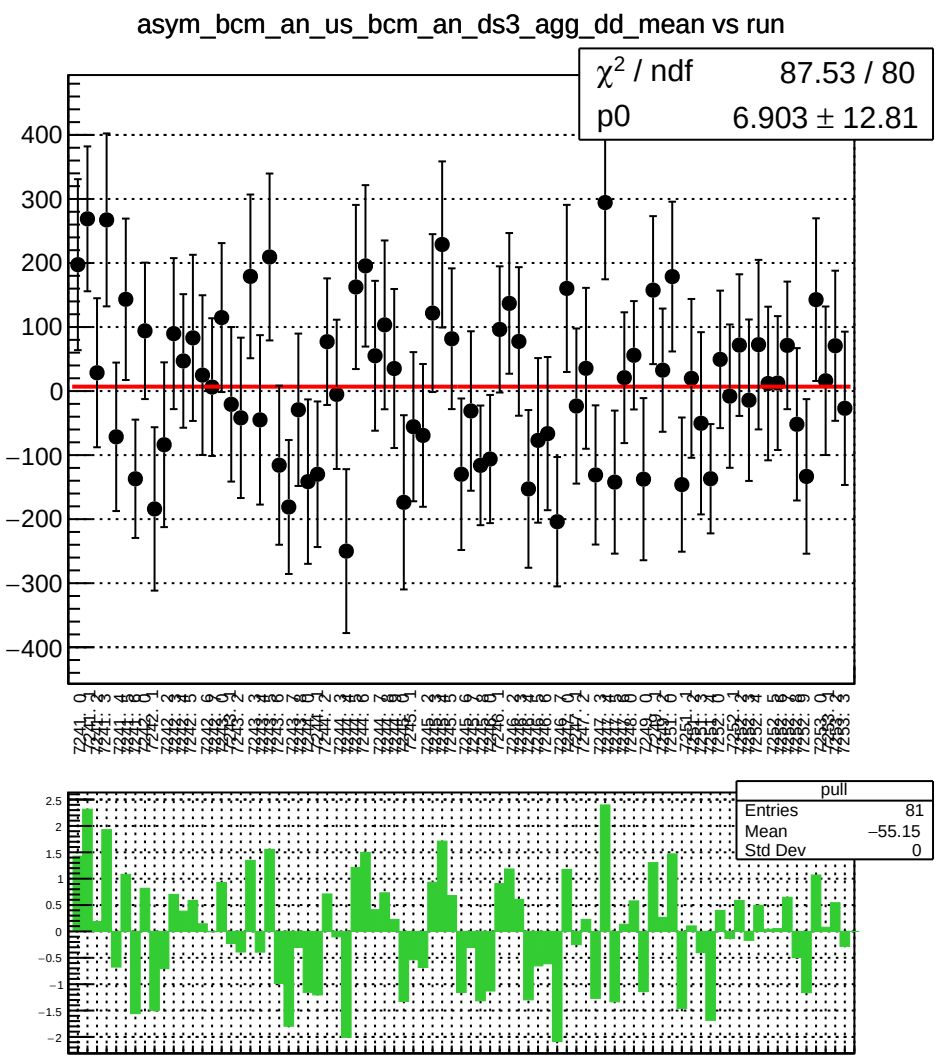

pull1D
Entries 81
Mean 0.02587
Std Dev 1.108

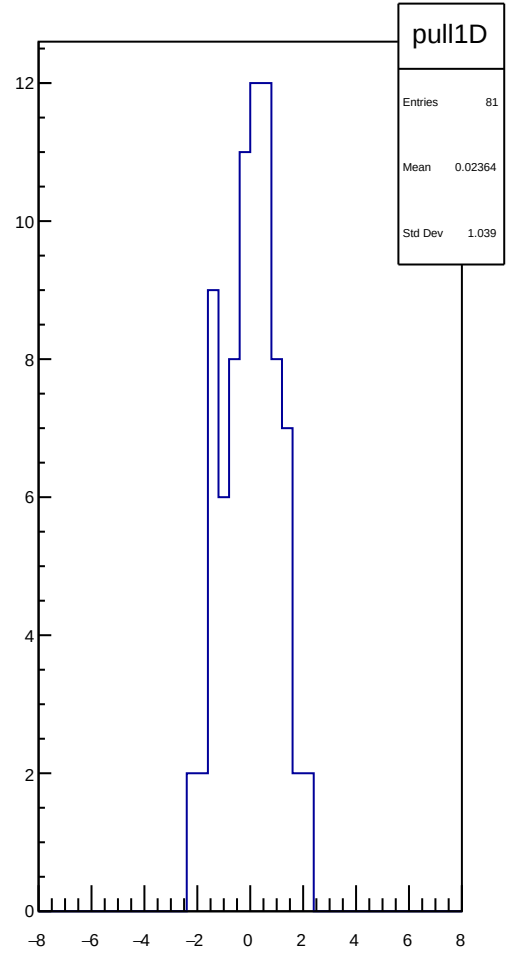

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 9393 / 80
p0 11.73 ± 0.009451
14
13
12
11
10

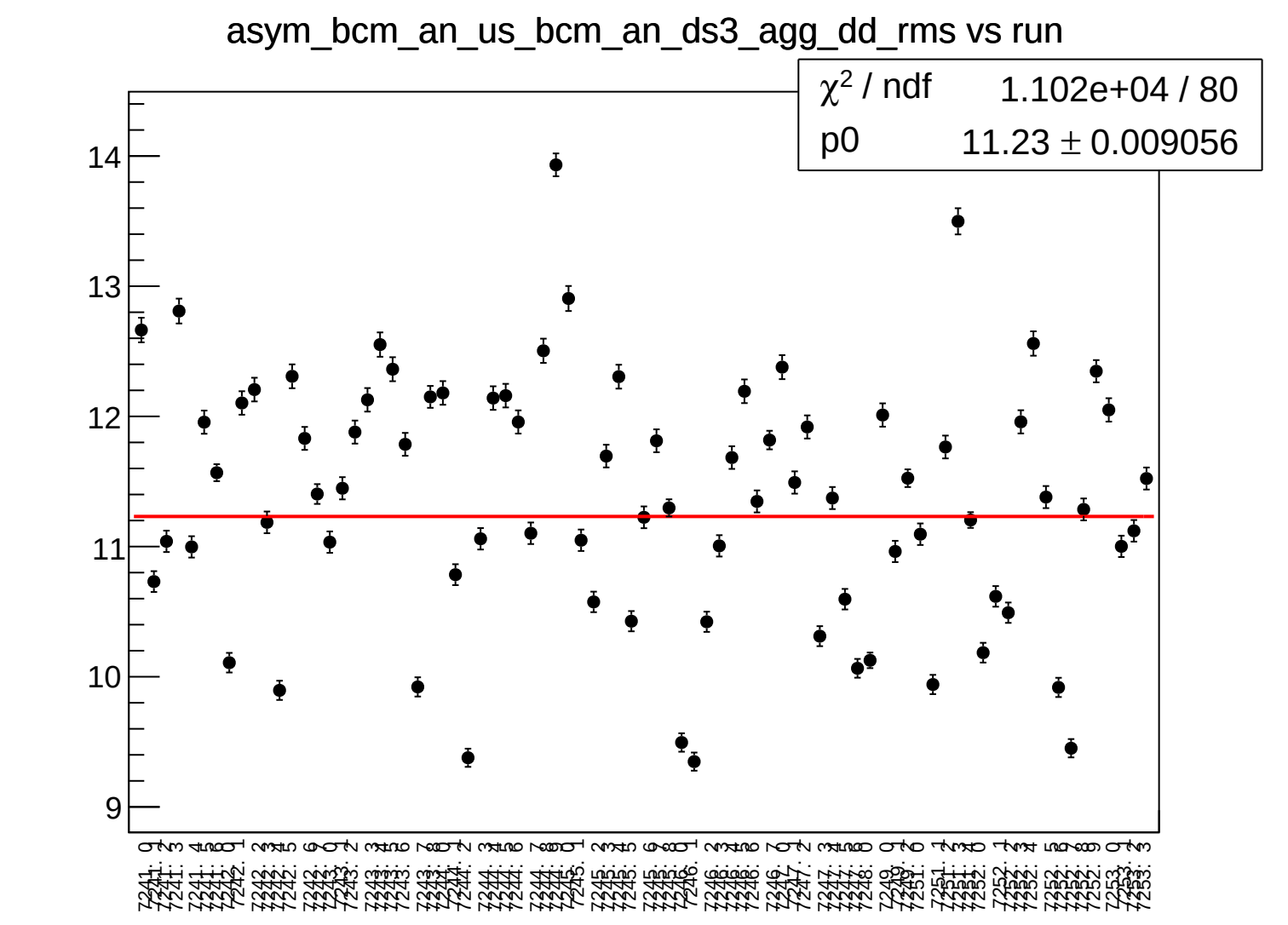

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 17.55 / 80
p0 173.3 ± 213.4
6000
4000
2000
0
−2000
−4000
pull
Entries 81
Mean 248.3
Std Dev 0
1
0.5
0
−0.5
−1

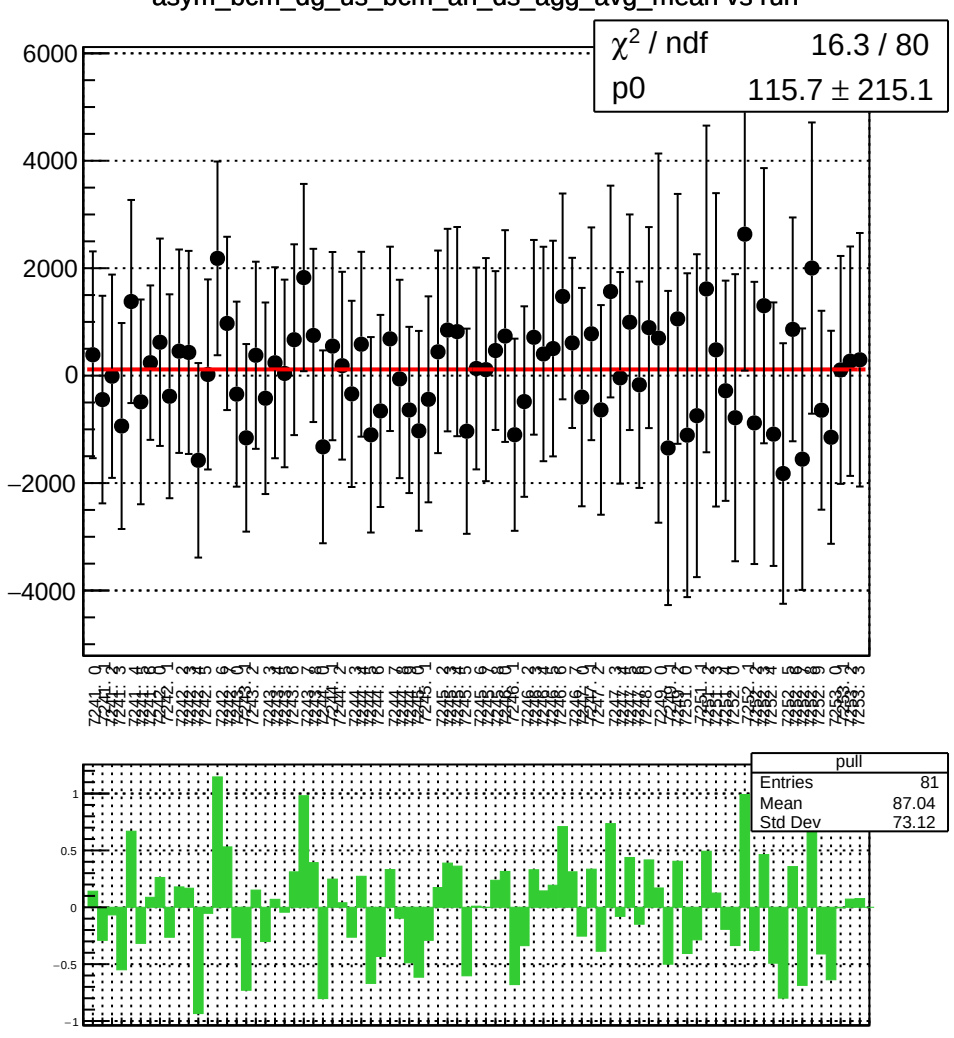

pull1D
Entries 81
Mean −0.002727
Std Dev 0.4654
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

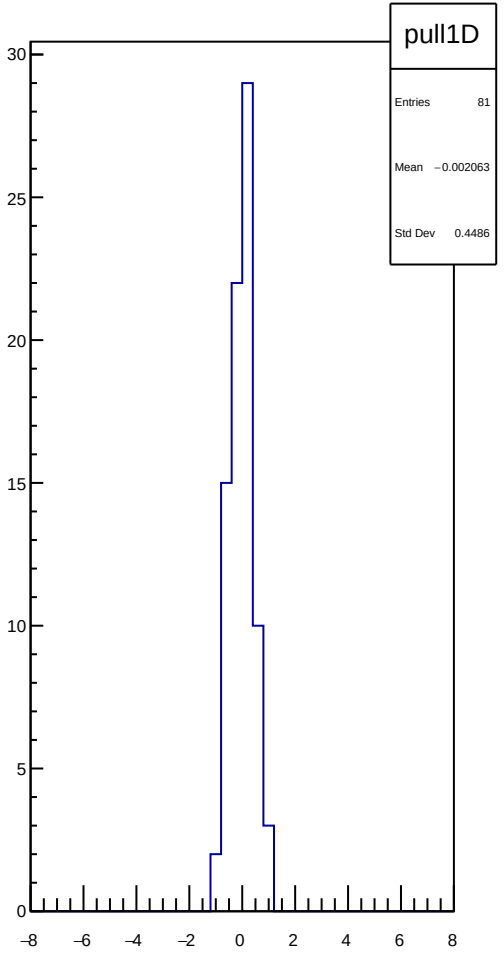

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 3.813e+04 / 80
p0 185.5 ± 0.1509
340
320
300
280
260
240
220
200
180
160

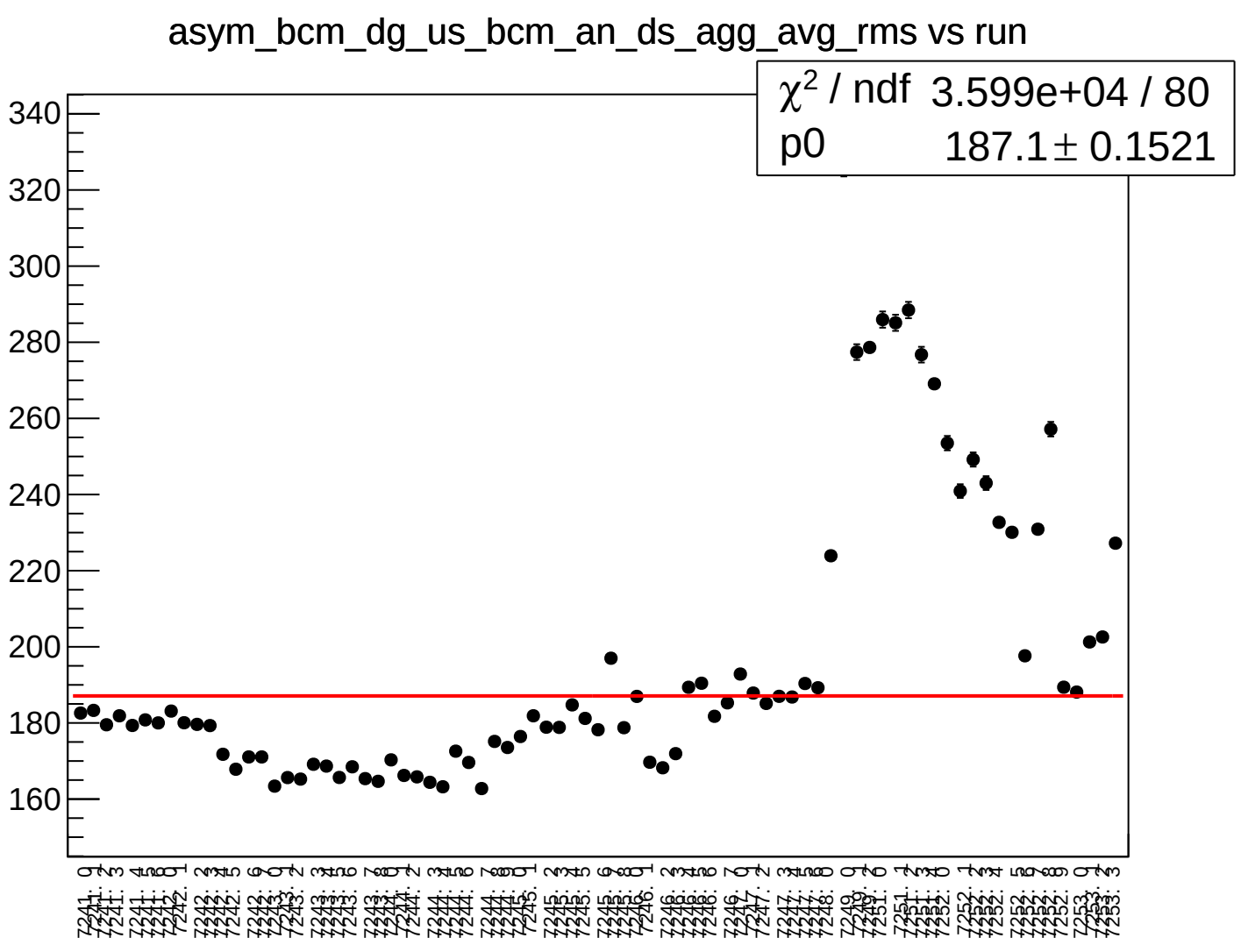

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 87.53 / 80
p0 6.903 ± 12.81
pull
Entries 81
Mean −55.15
Std Dev 0

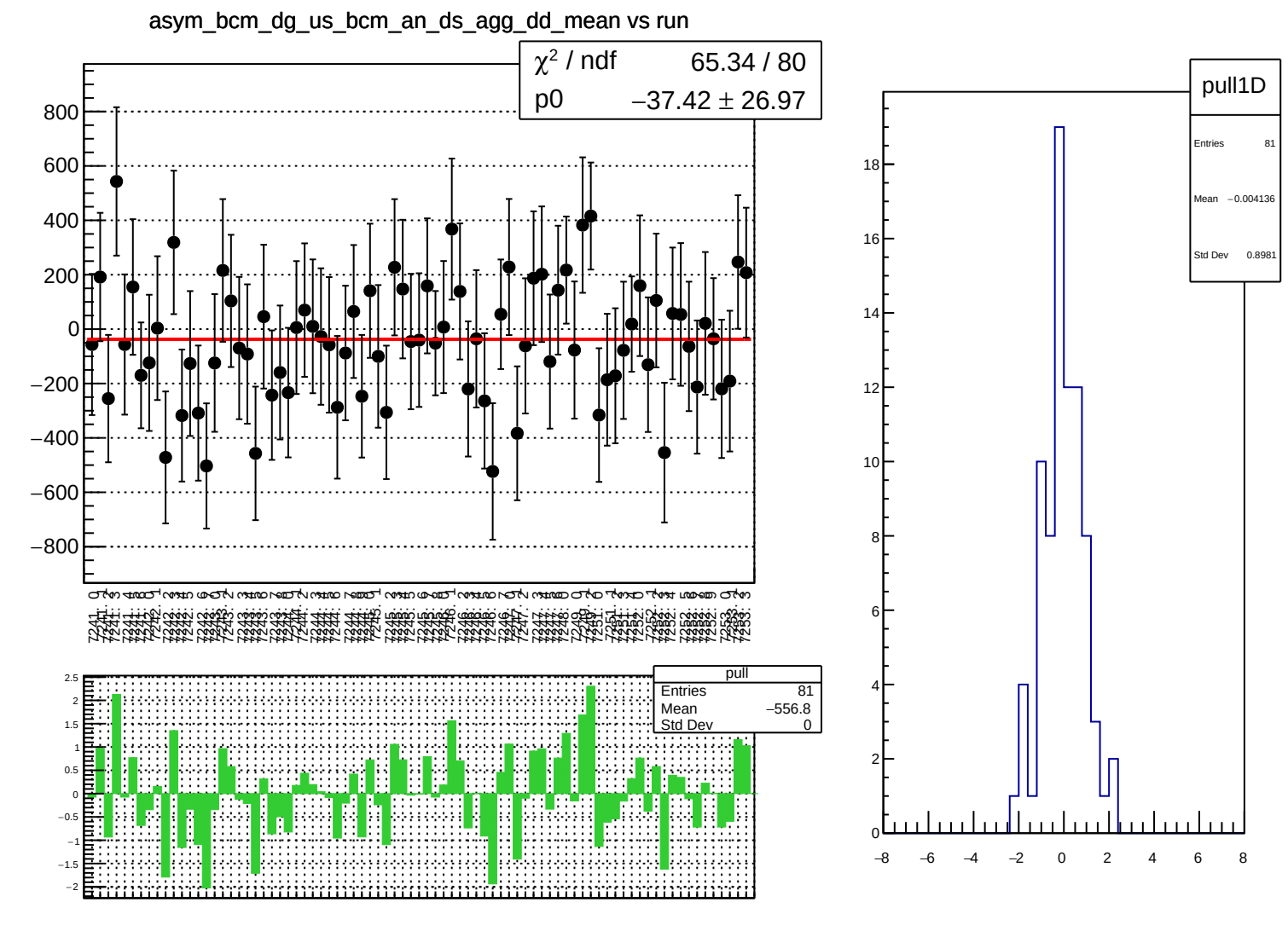

pull1D
Entries 81
Mean 0.02364
Std Dev 1.039

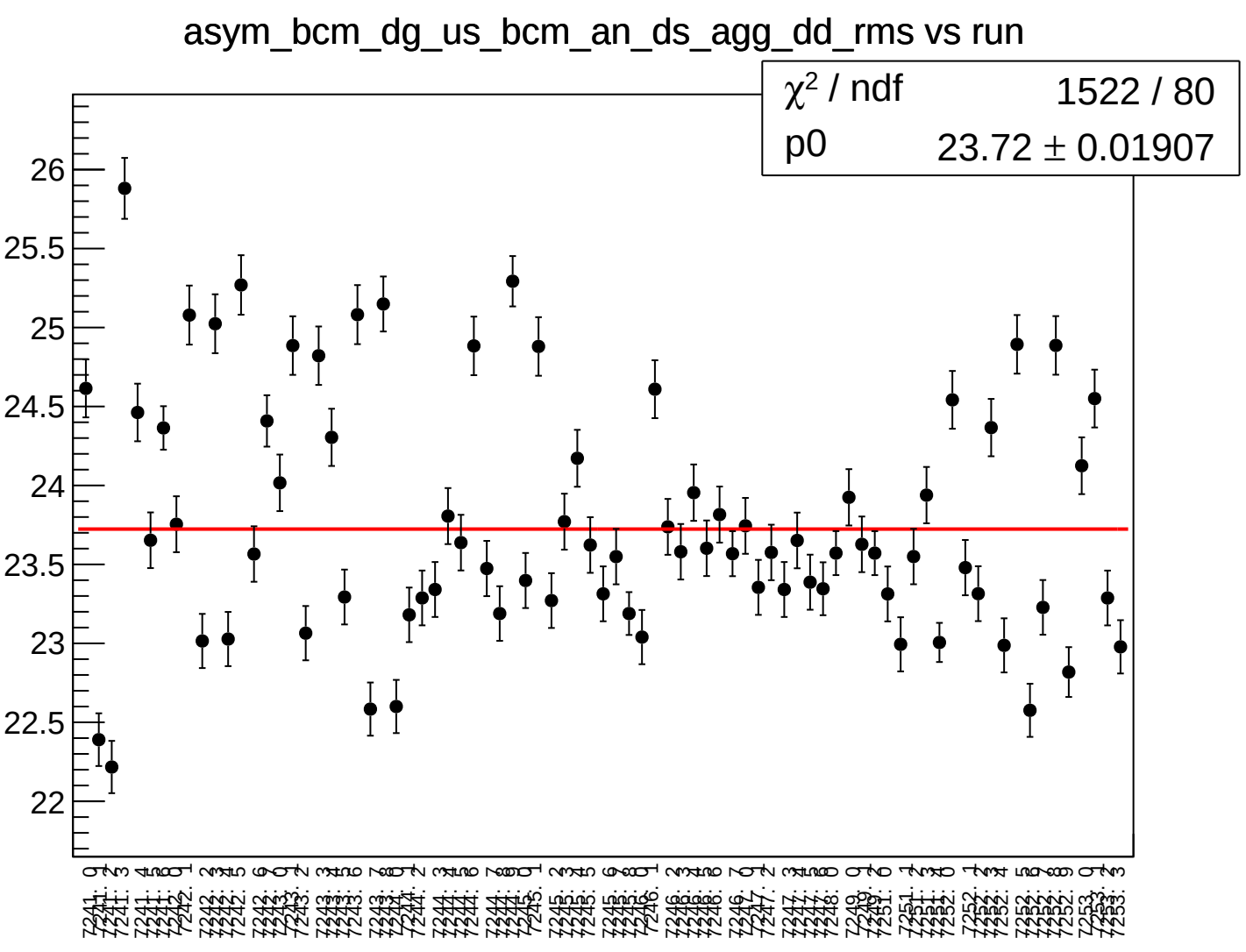

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 1.102e+04 / 80
p0 11.23 ± 0.009056
14
13
12
11
10
9

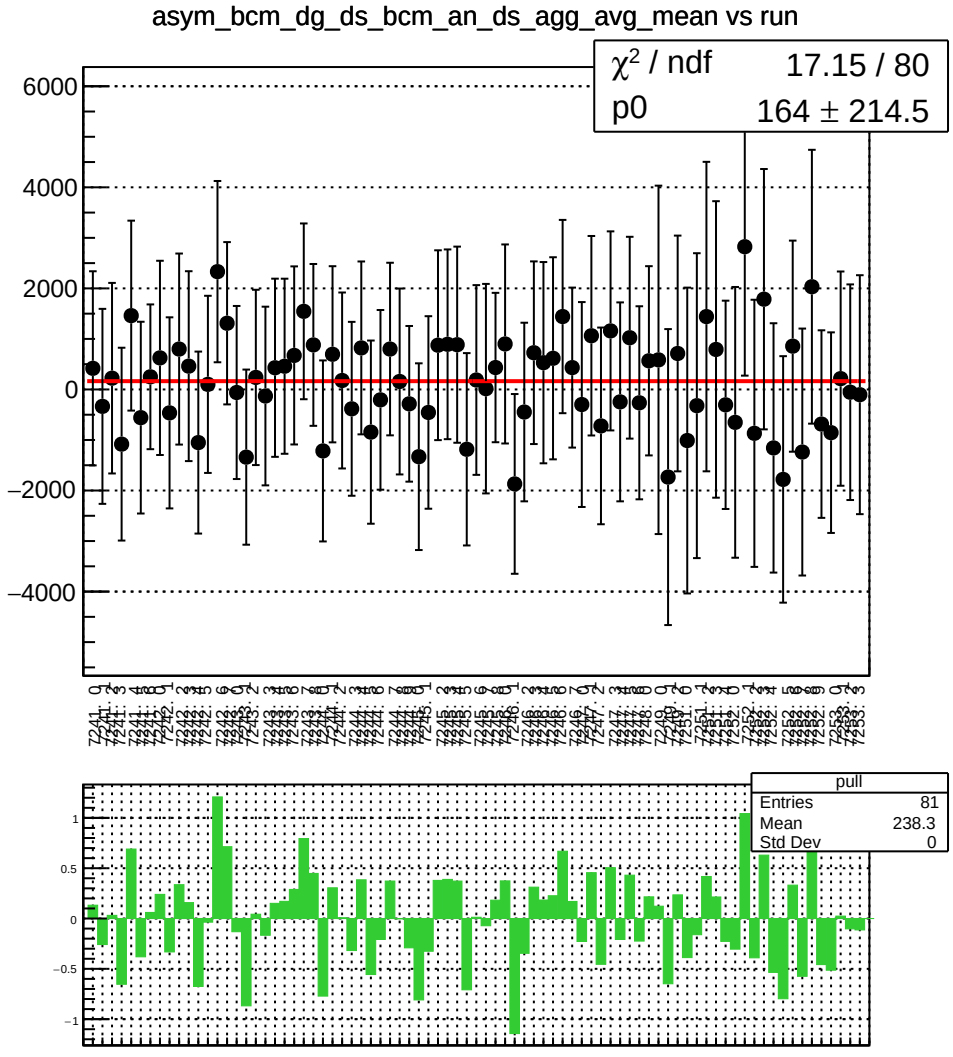

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 16.3 / 80
p0 115.7 ± 215.1
pull
Entries 81
Mean 87.04
Std Dev 73.12

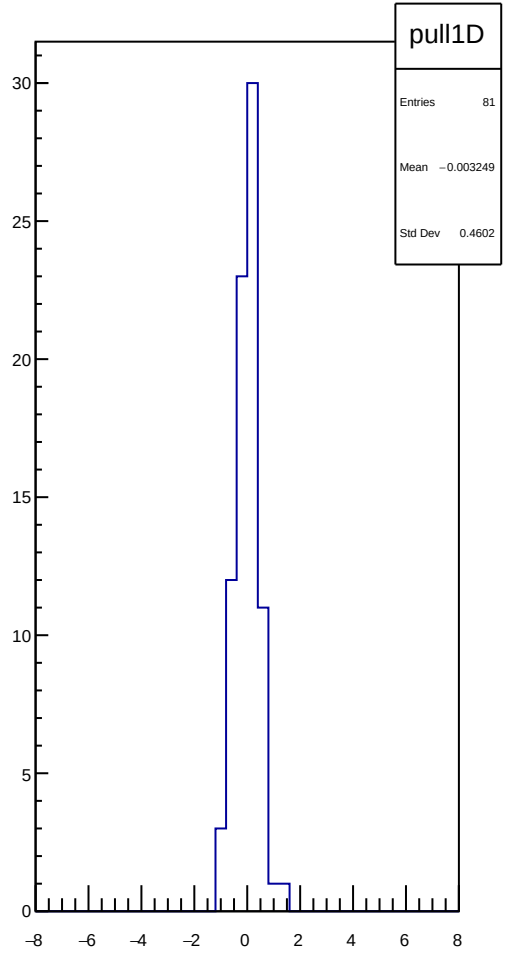

pull1D
Entries 81
Mean −0.002063
Std Dev 0.4486

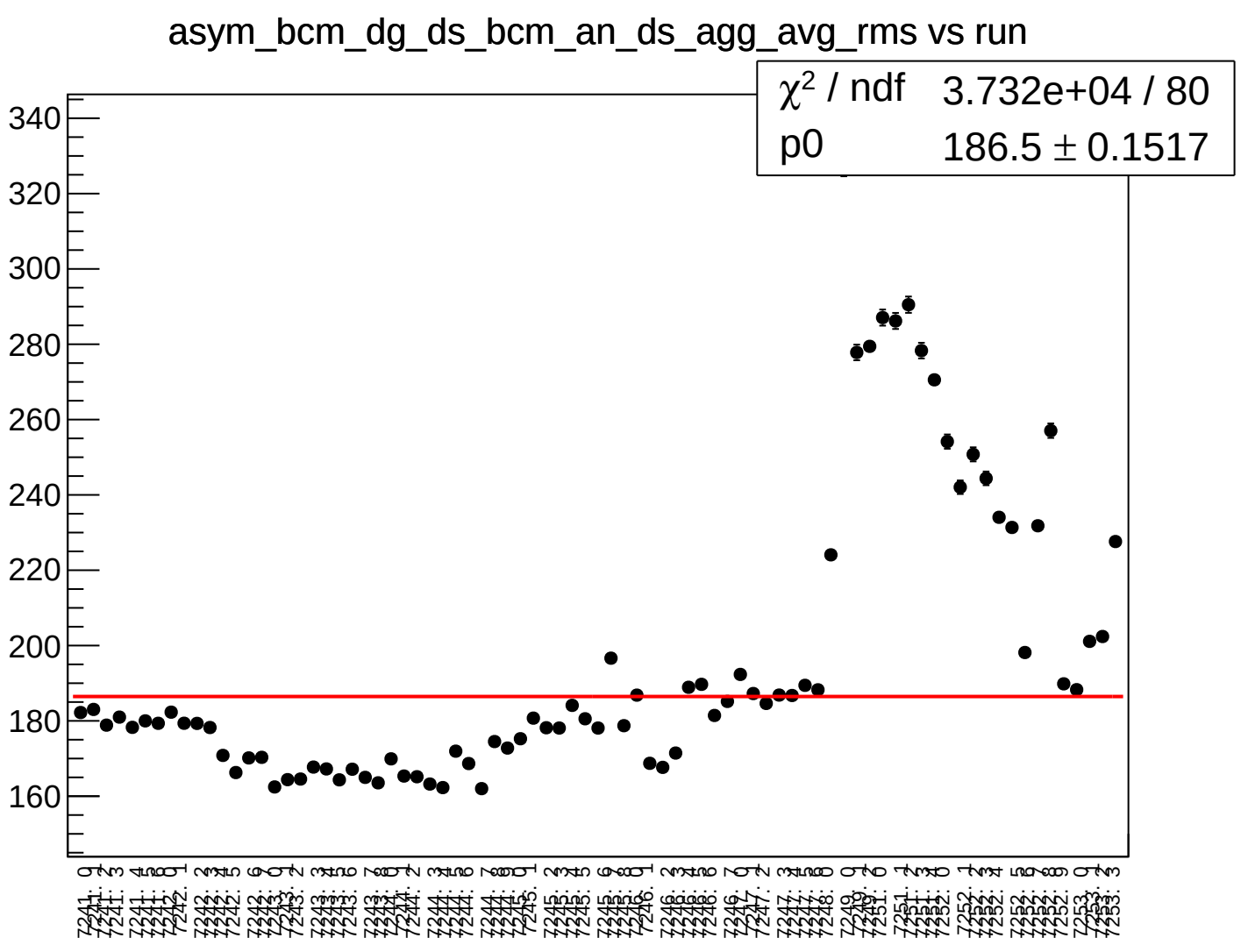

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3.599e+04 / 80
p0 187.1 ± 0.1521
340
320
300
280
260
240
220
200
180
160

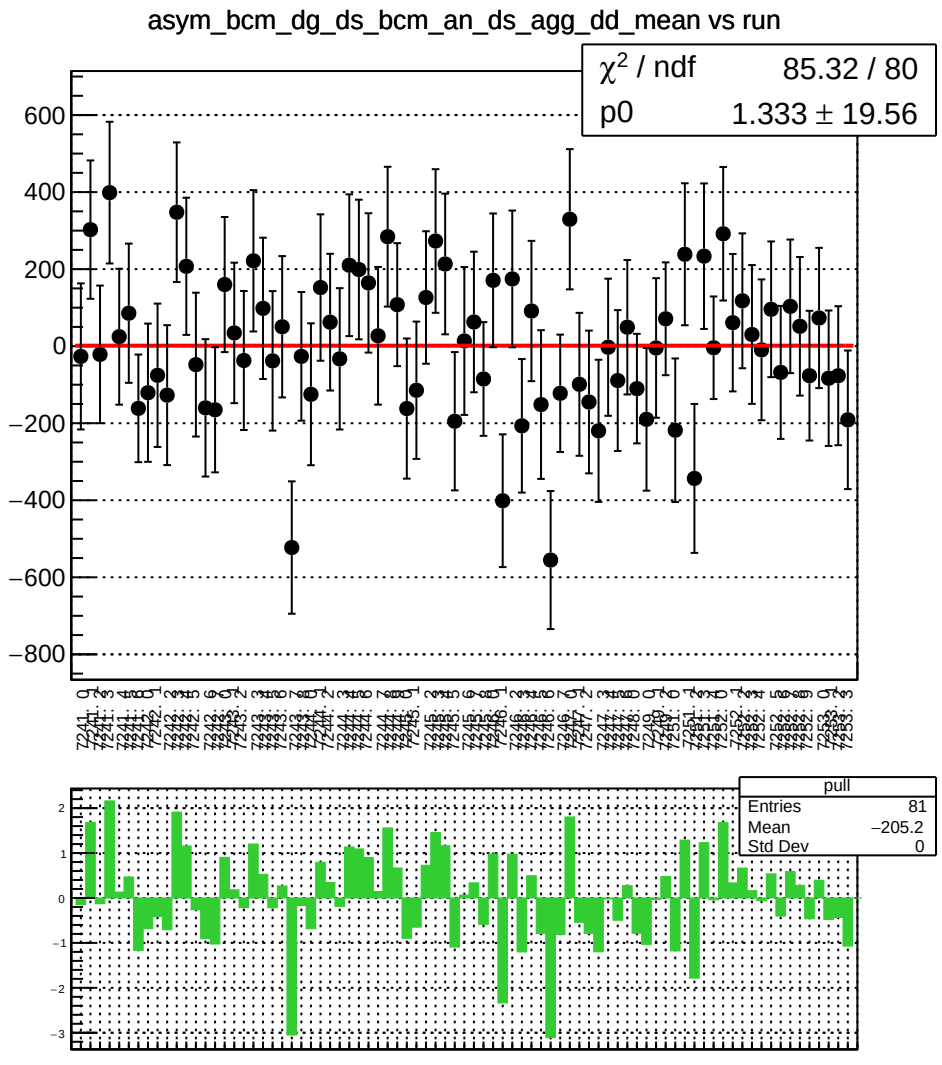

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 65.34 / 80
p0 −37.42 ± 26.97
pull
Entries 81
Mean −556.8
Std Dev 0
pull1D
Entries 81
Mean −0.004136
Std Dev 0.8981

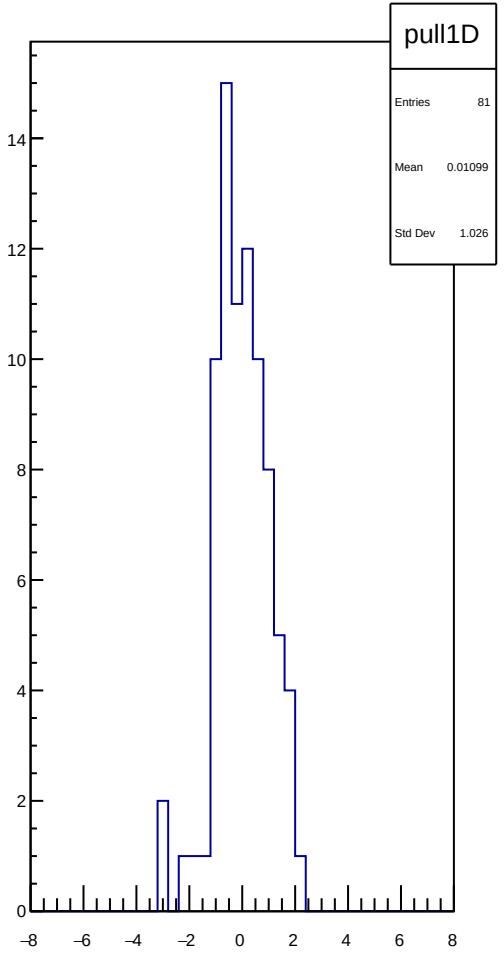

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1522 / 80
p0 23.72 ± 0.01907
26
25.5
25
24.5
24
23.5
23
22.5
22

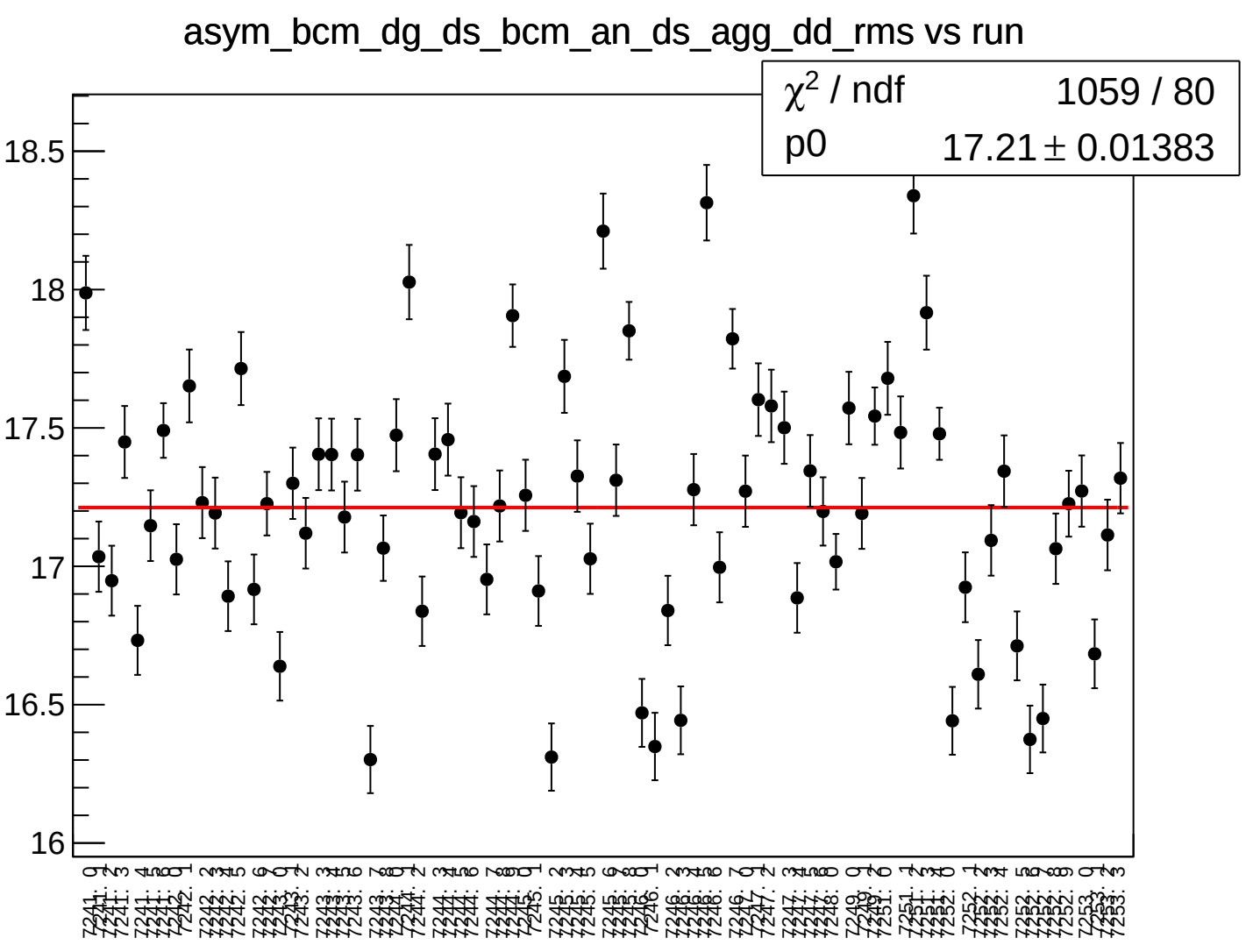

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 17.15 / 80
p0 164 ± 214.5
6000
4000
2000
0
−2000
−4000
pull
Entries 81
Mean 238.3
Std Dev 0
1
0.5
0
−0.5
−1

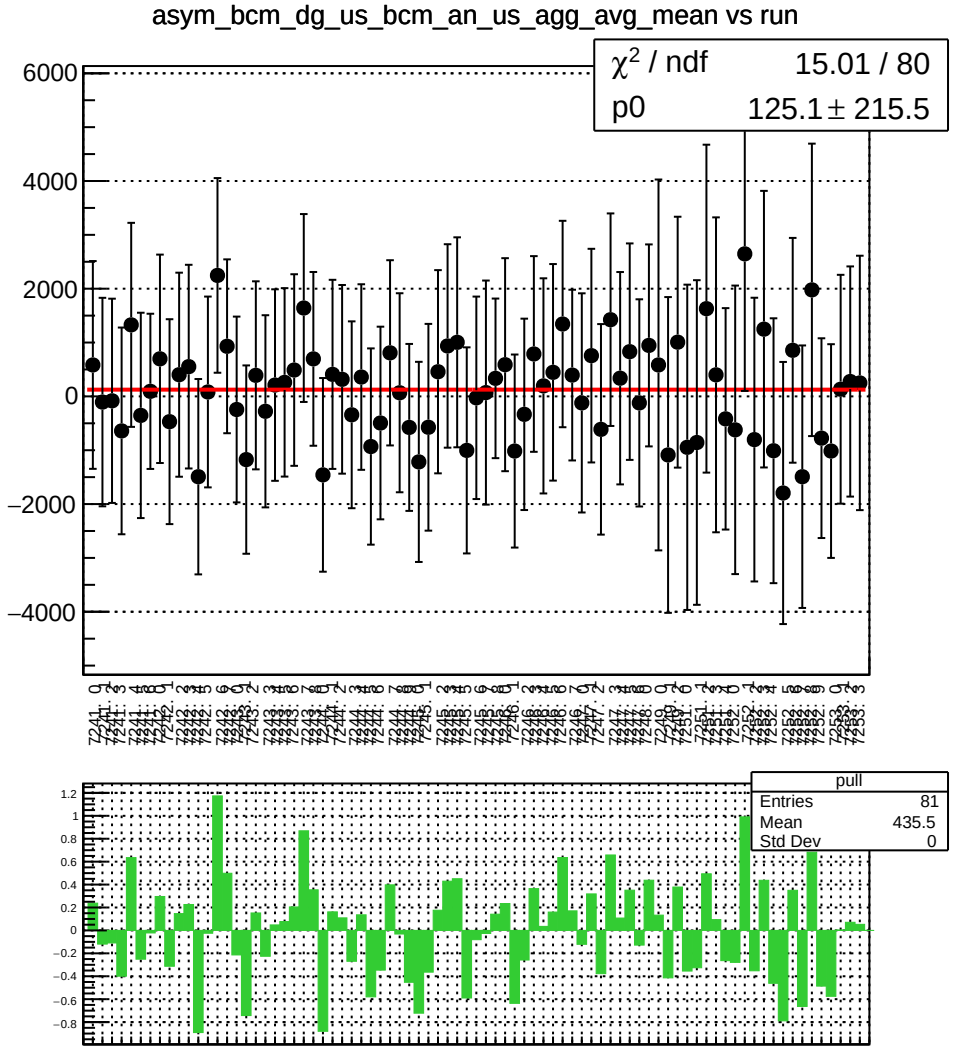

pull1D
Entries 81
Mean −0.003249
Std Dev 0.4602
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

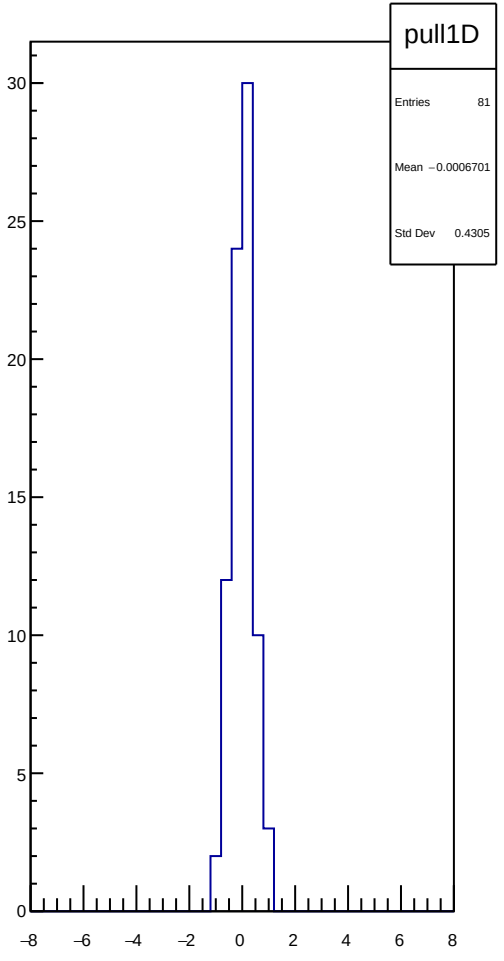

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3.732e+04 / 80
p0 186.5 ± 0.1517
340
320
300
280
260
240
220
200
180
160

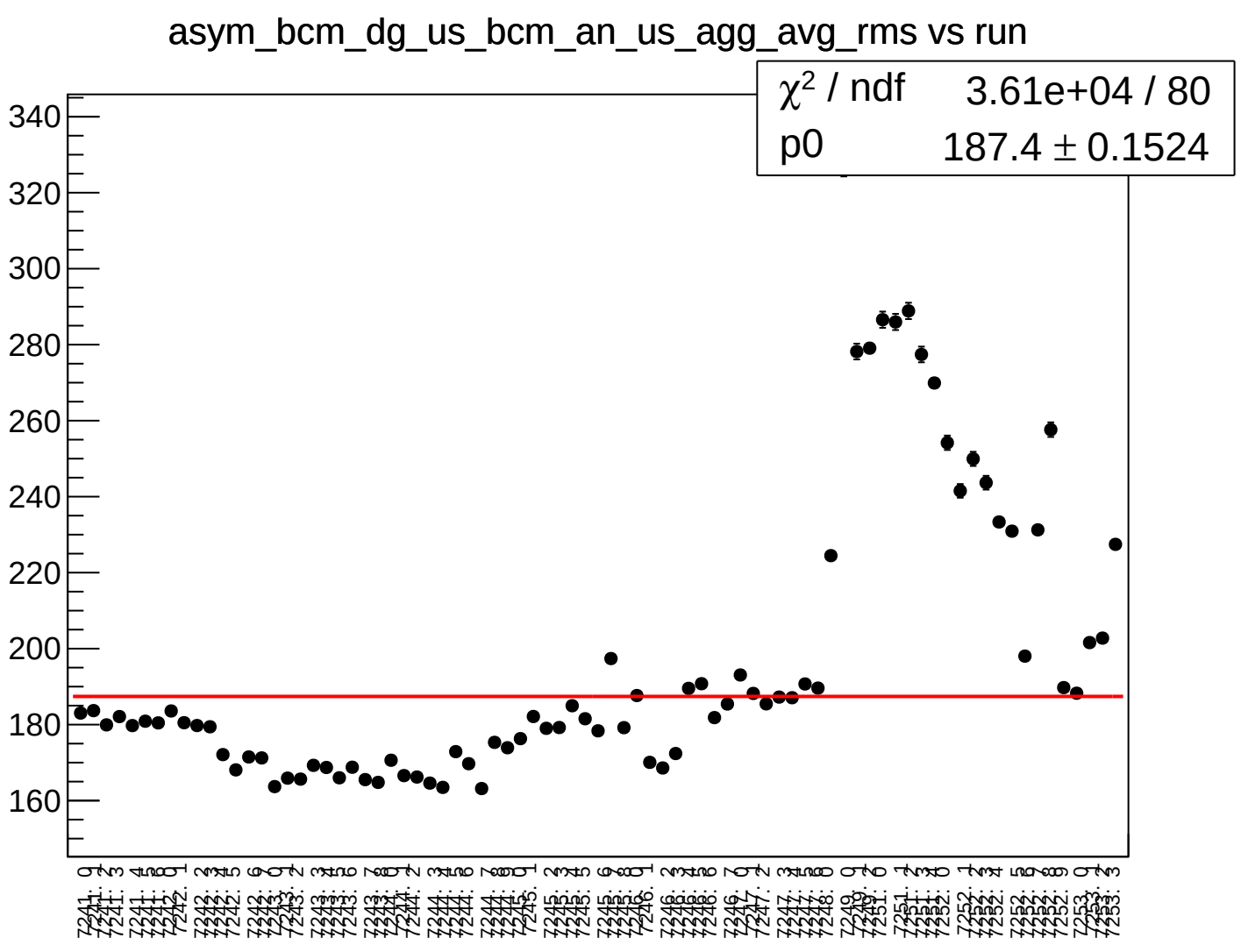

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 85.32 / 80
p0 1.333 ± 19.56
pull
Entries 81
Mean −205.2
Std Dev 0

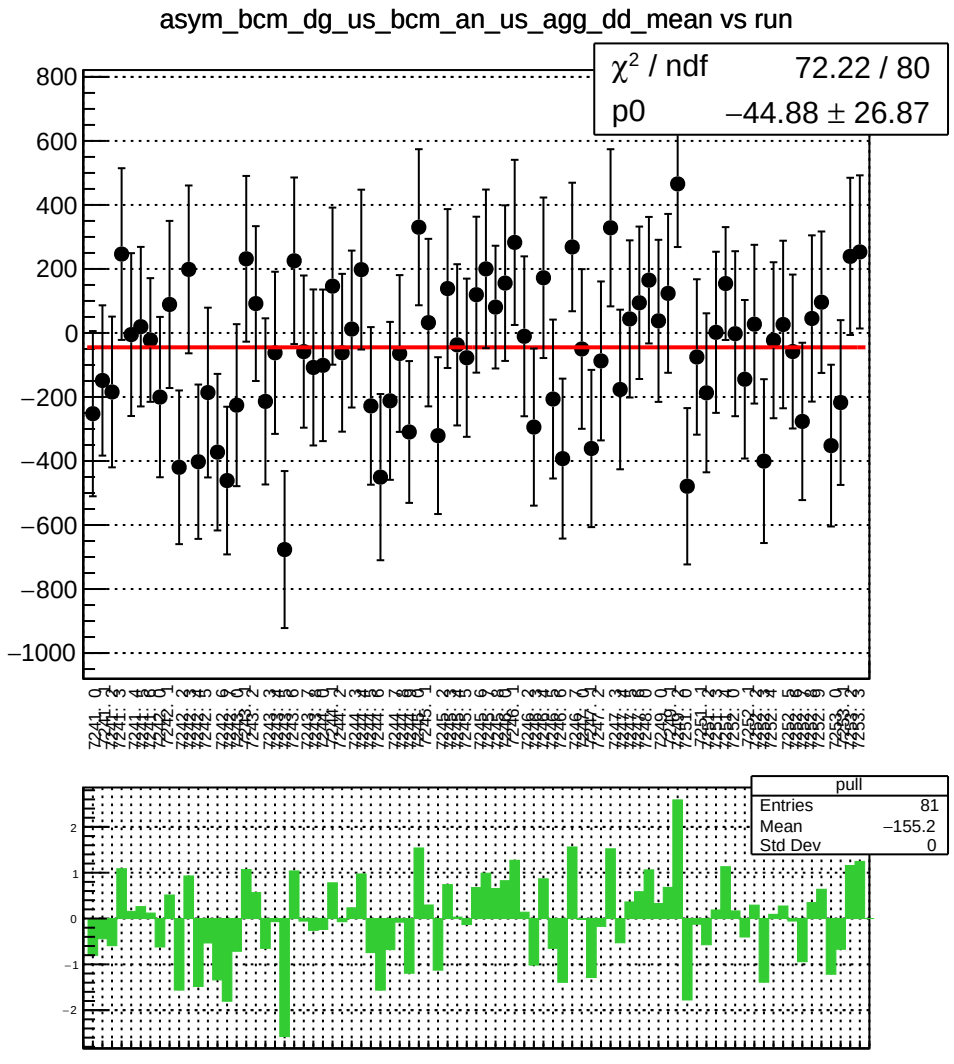

pull1D
Entries 81
Mean 0.01099
Std Dev 1.026

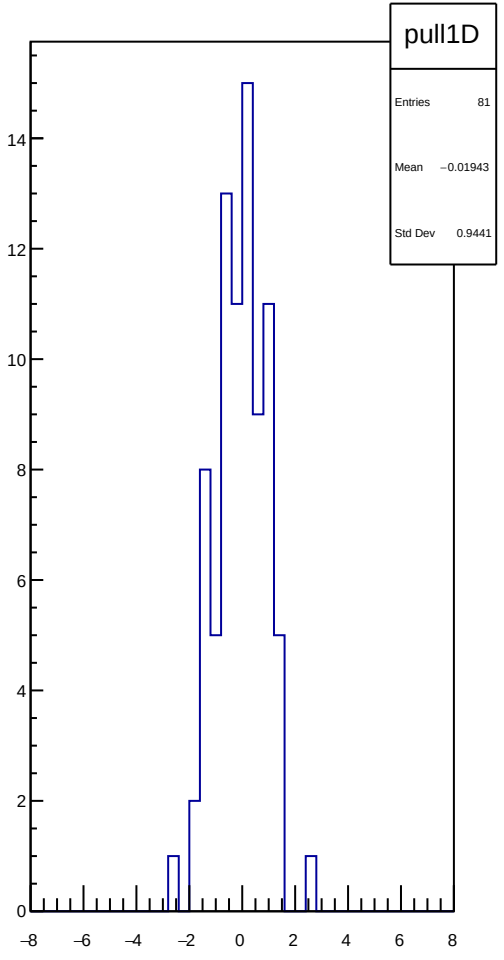

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1059 / 80
p0 17.21 ± 0.01383
18.5
18
17.5
17
16.5
16

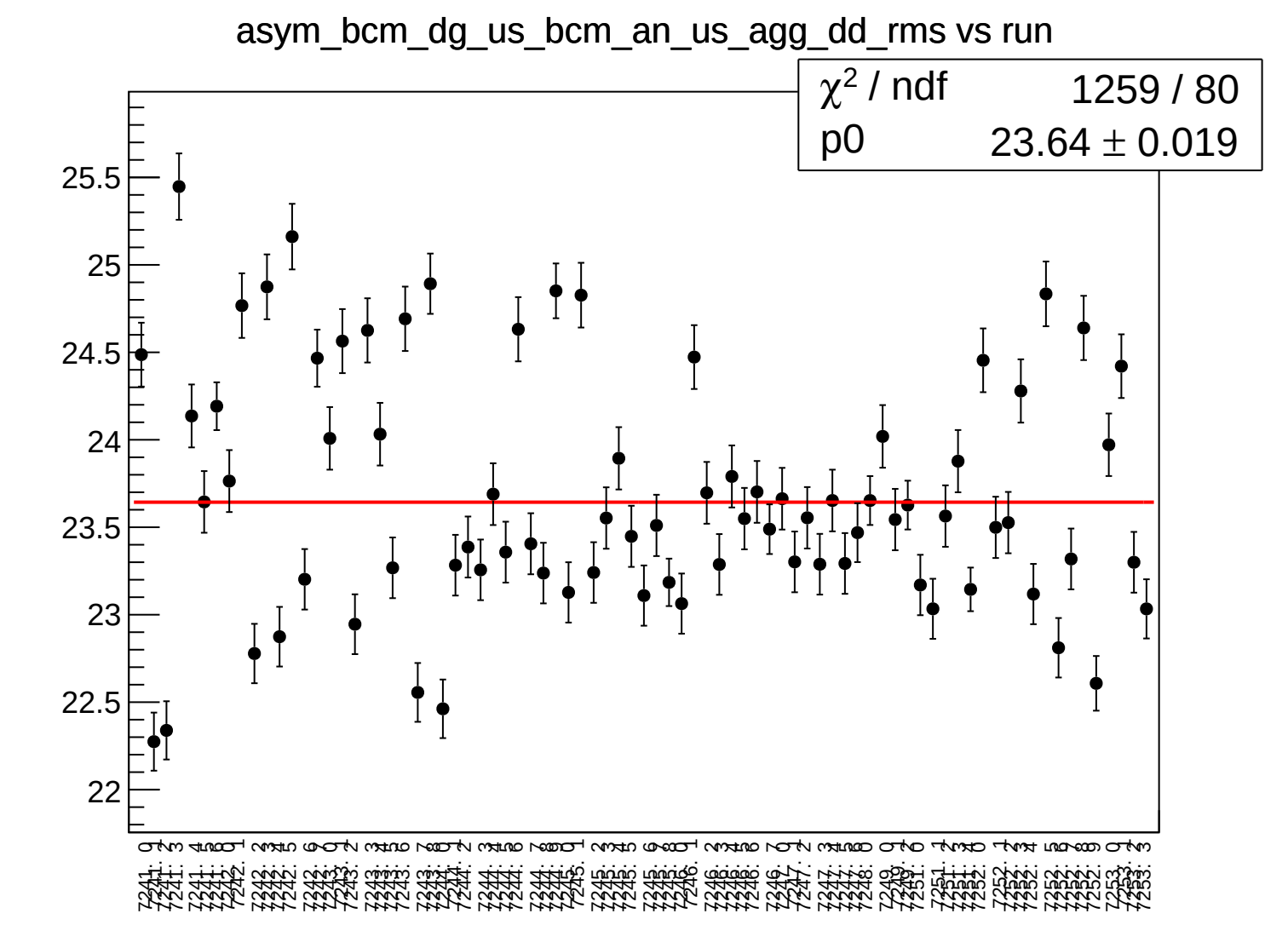

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 15.01 / 80
p0 125.1 ± 215.5
pull
Entries 81
Mean 435.5
Std Dev 0

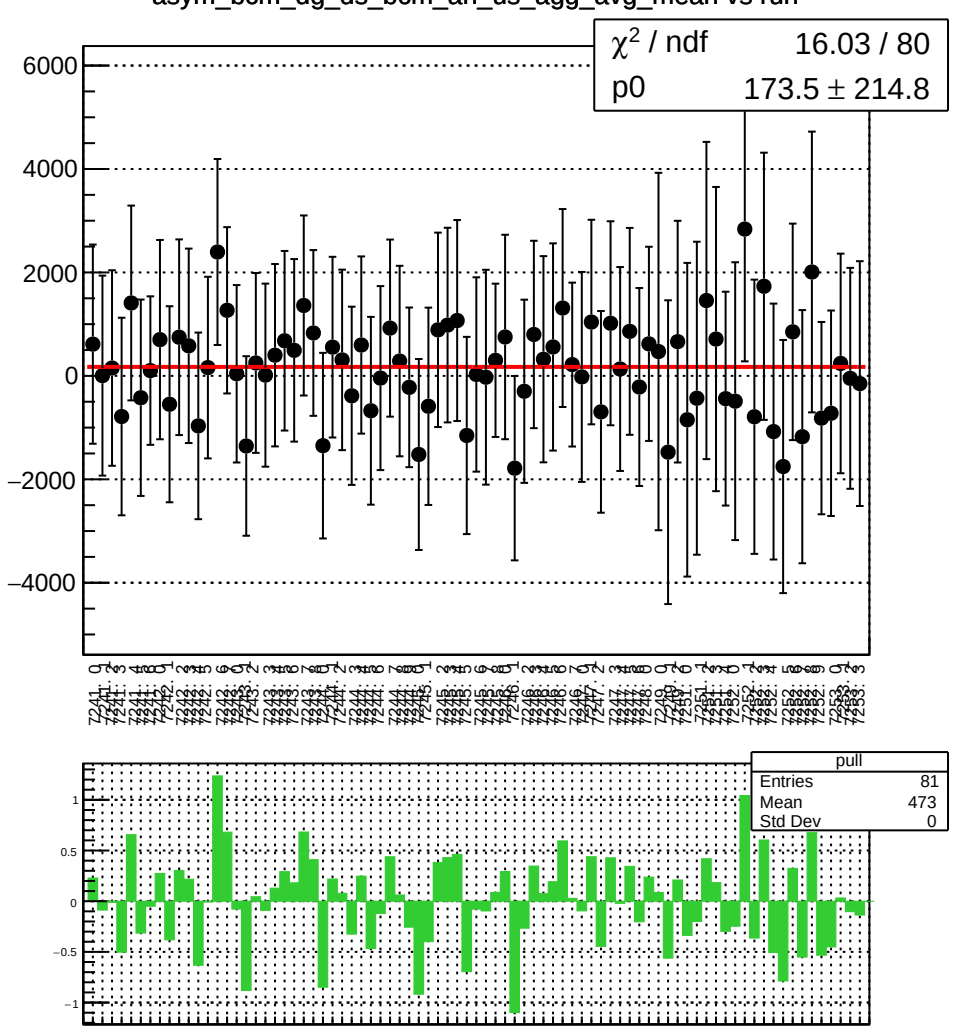

pull1D
Entries 81
Mean −0.0006701
Std Dev 0.4305

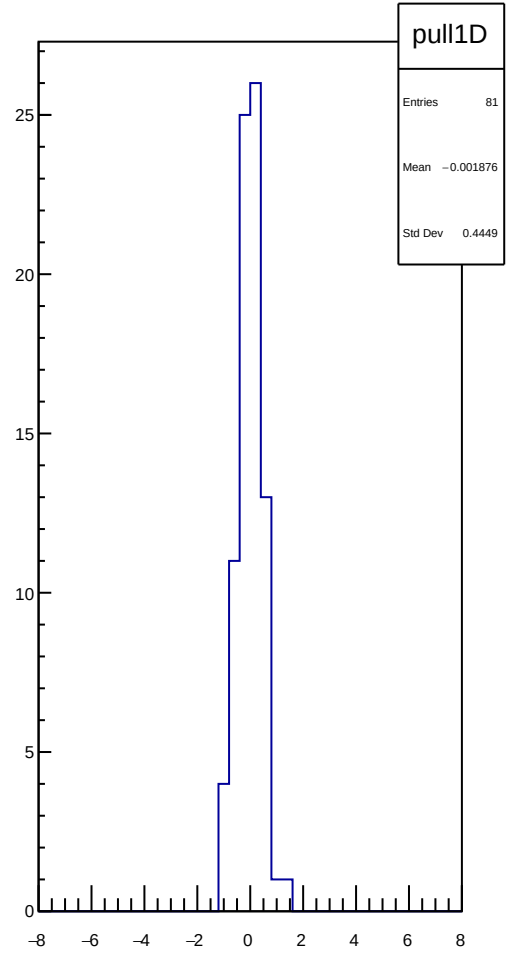

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3.61e+04 / 80
p0 187.4 ± 0.1524
340
320
300
280
260
240
220
200
180
160

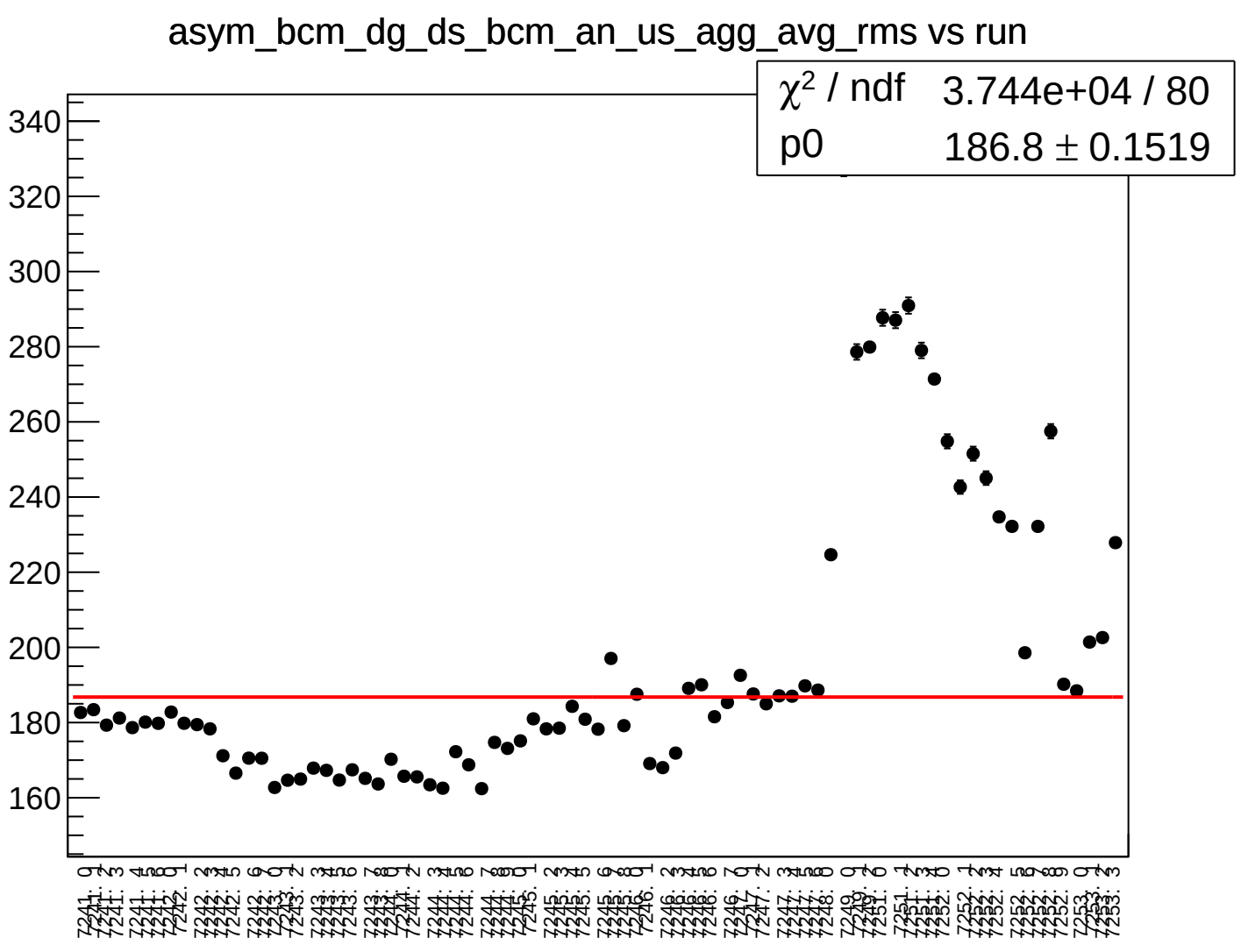

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 72.22 / 80
p0 −44.88 ± 26.87
pull
Entries 81
Mean −155.2
Std Dev 0

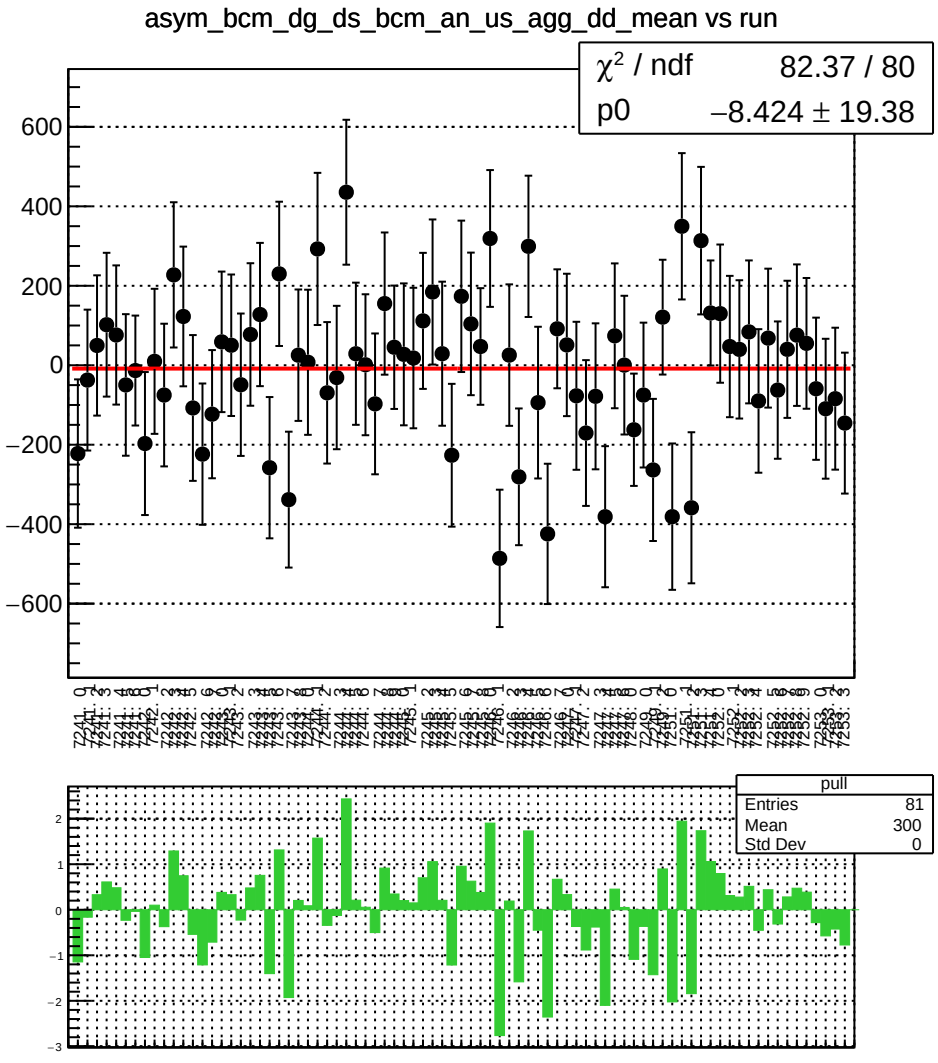

pull1D
Entries 81
Mean −0.01943
Std Dev 0.9441

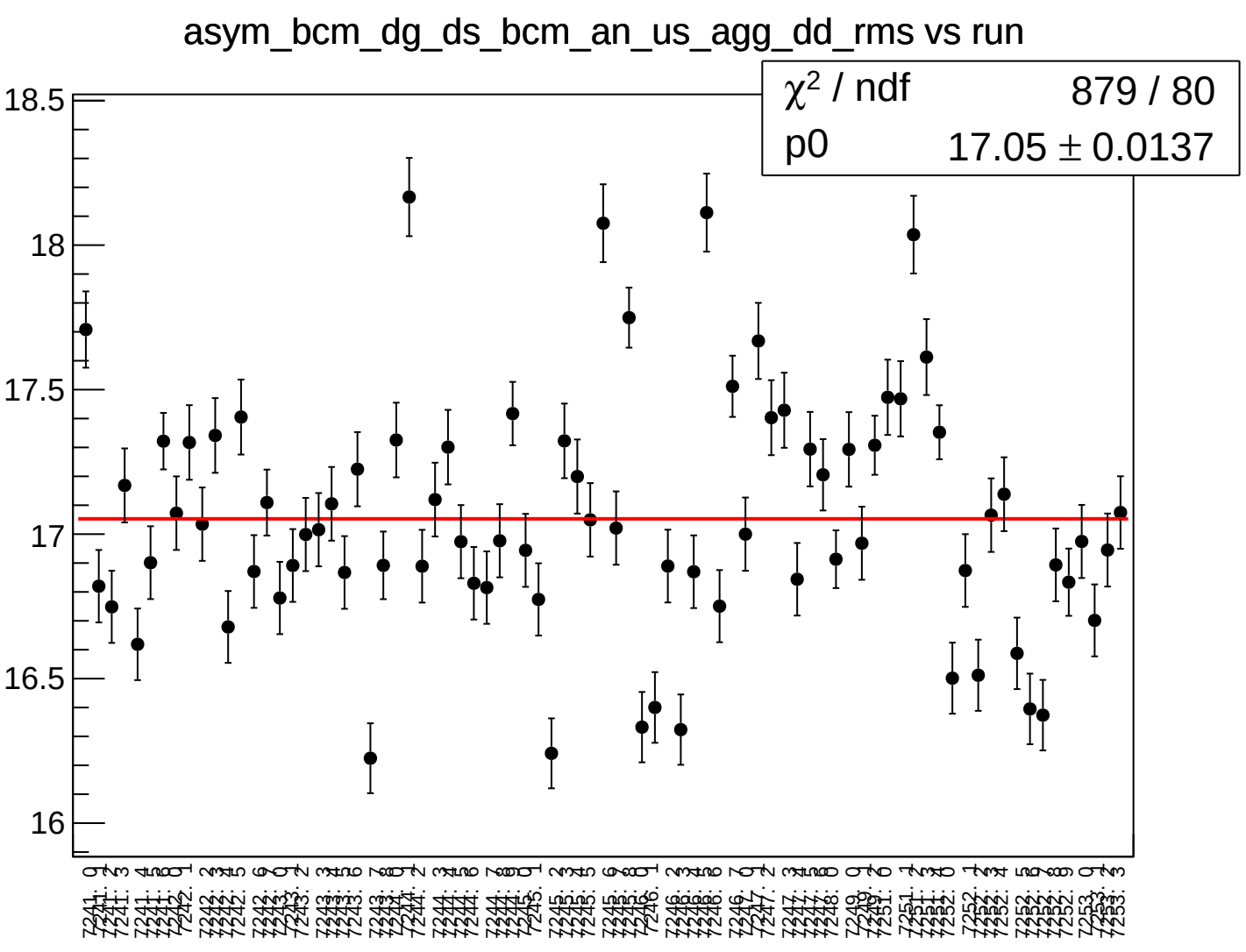

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1259 / 80
p0 23.64 ± 0.019
25.5
25
24.5
24
23.5
23
22.5
22

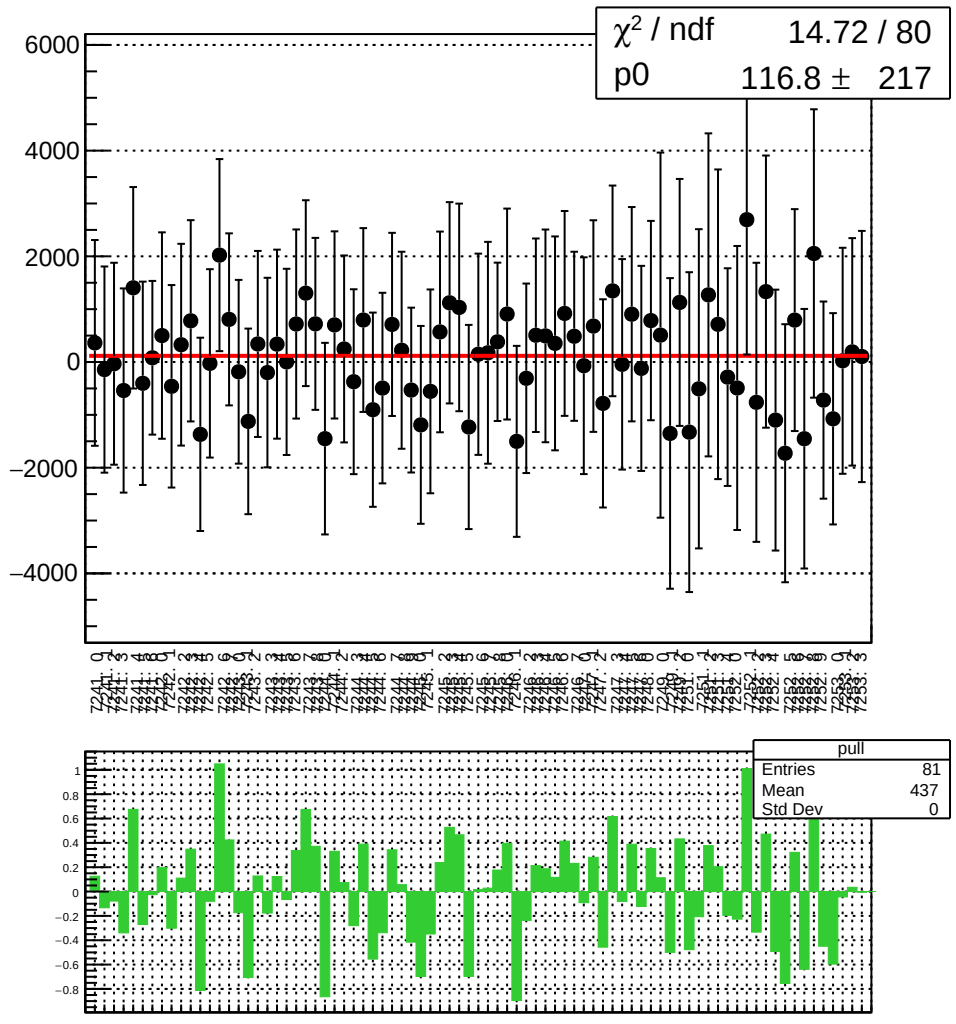

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 16.03 / 80
p0 173.5 ± 214.8
pull
Entries 81
Mean 473
Std Dev 0

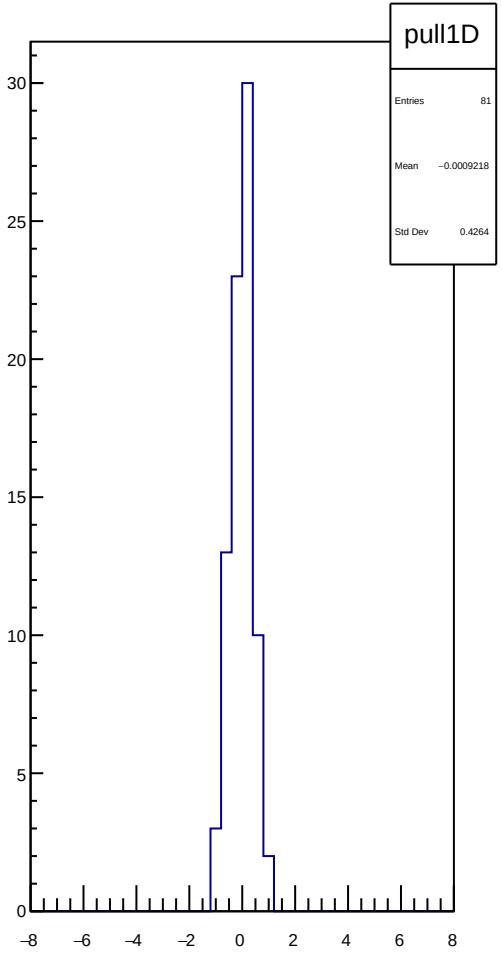

pull1D
Entries 81
Mean −0.001876
Std Dev 0.4449

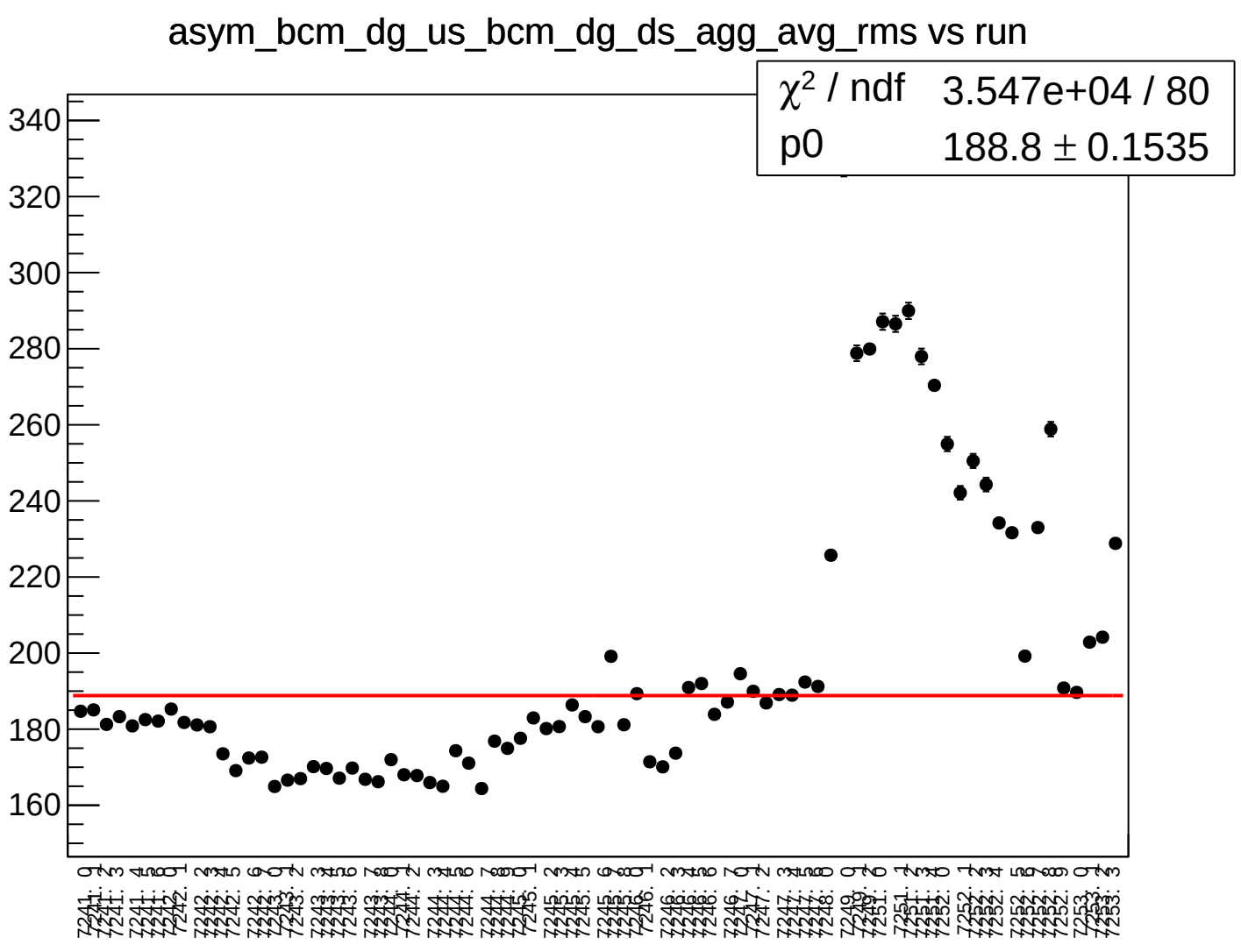

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3.744e+04 / 80
p0 186.8 ± 0.1519
340
320
300
280
260
240
220
200
180
160

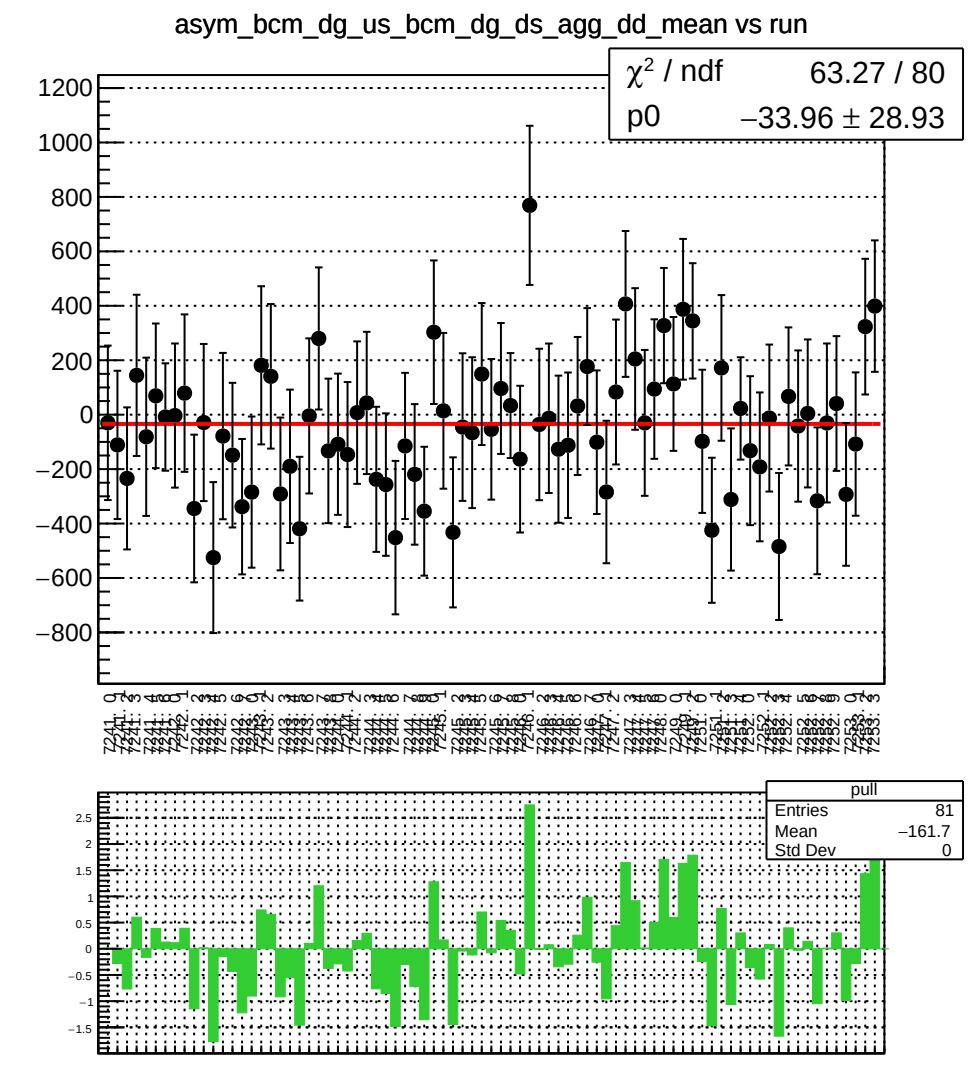

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 82.37 / 80
p0 −8.424 ± 19.38
600
400
200
0
−200
−400
−600
pull
Entries 81
Mean 300
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 81
Mean −0.003551
Std Dev 1.008
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

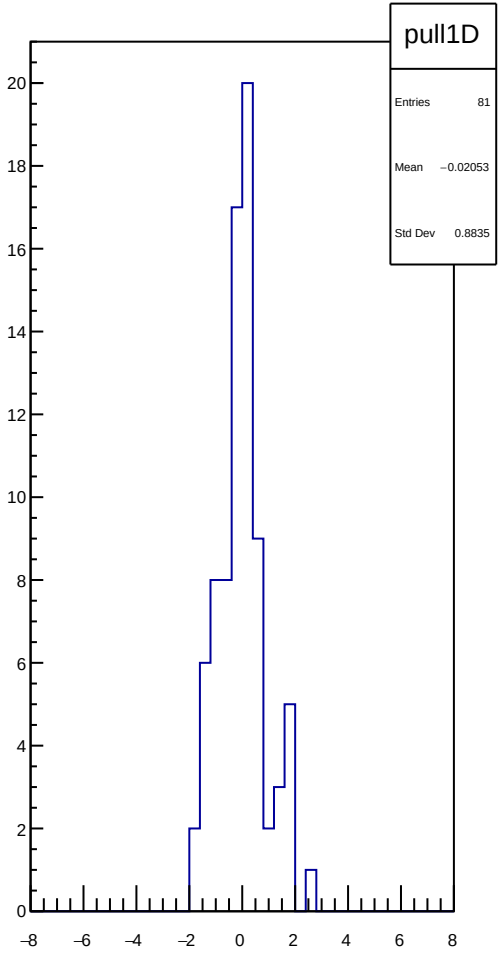

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 879 / 80
p0 17.05 ± 0.0137
18.5
18
17.5
17
16.5
16

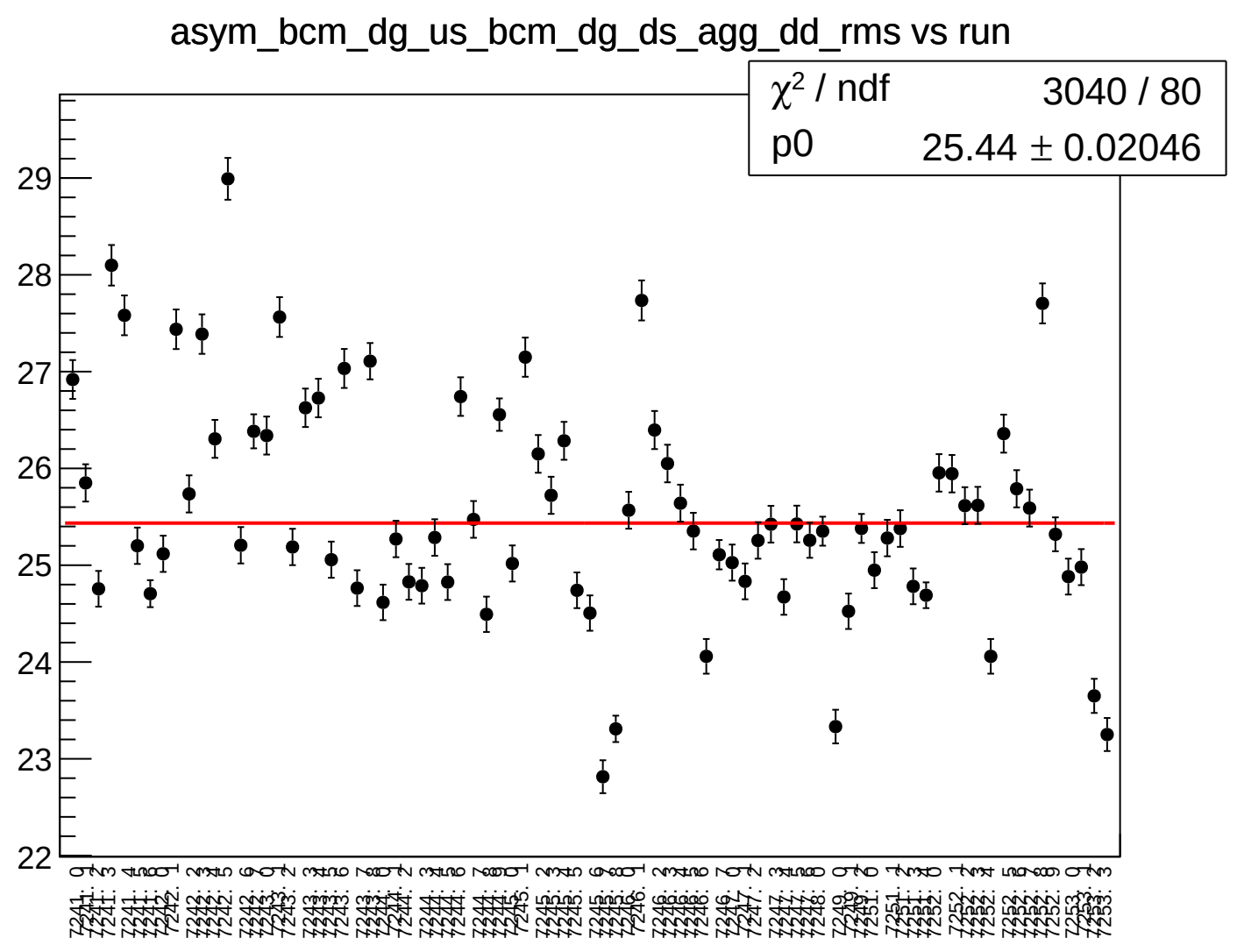

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 14.72 / 80
p0 116.8 ± 217
pull
Entries 81
Mean 437
Std Dev 0

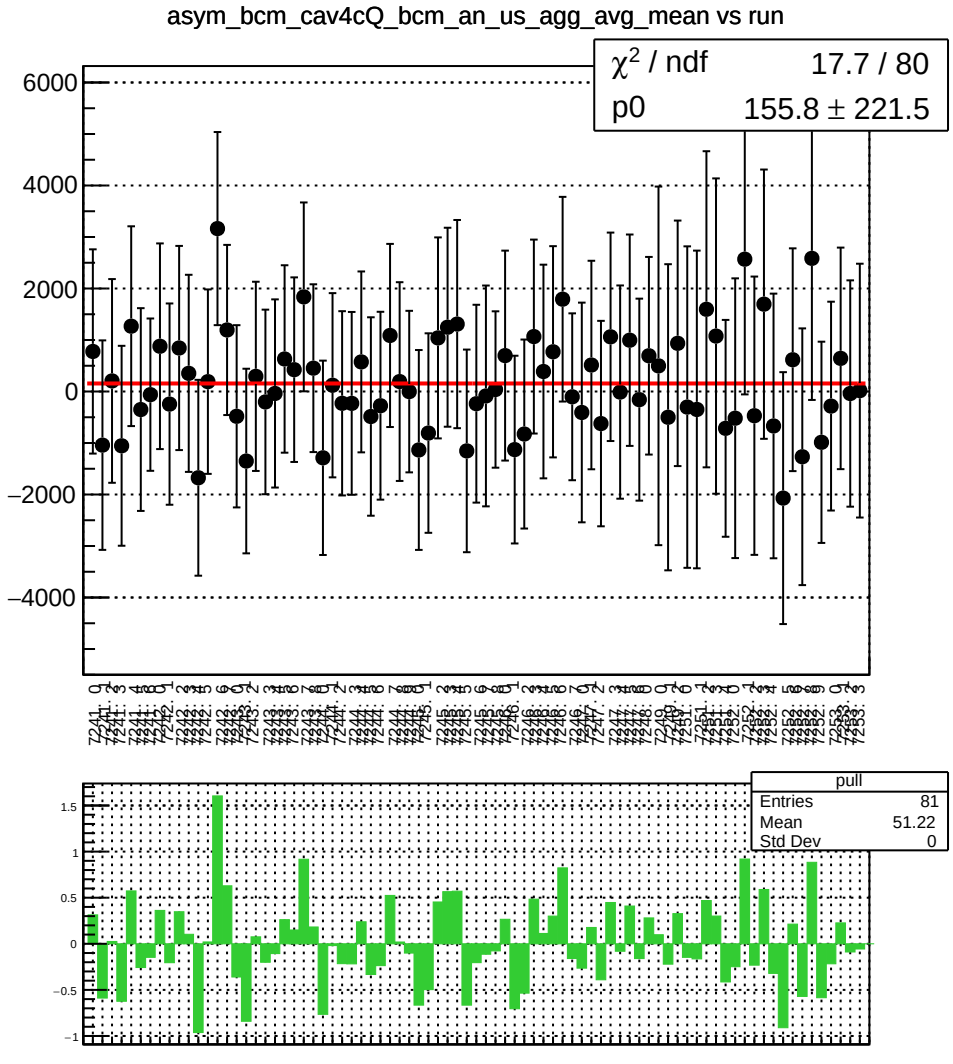

pull1D
Entries 81
Mean −0.0009218
Std Dev 0.4264

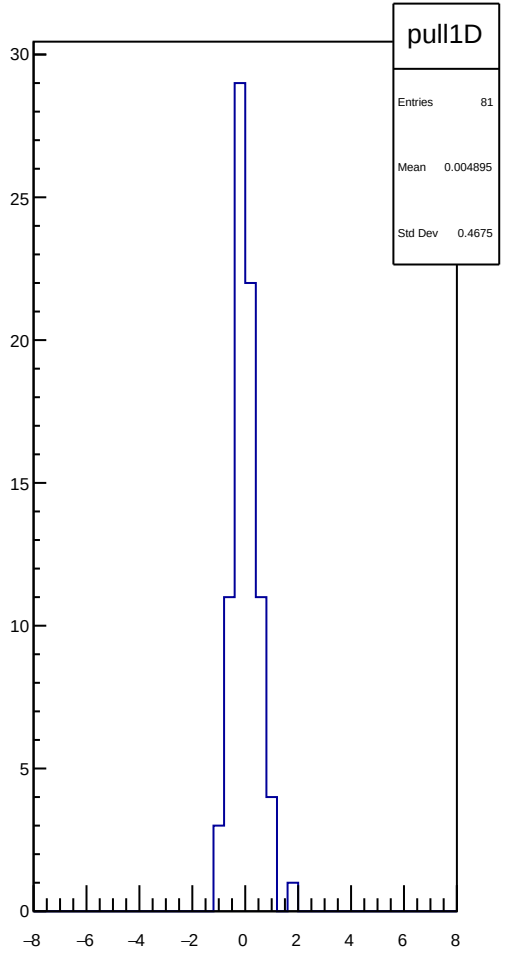

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 3.547e+04 / 80
p0 188.8 ± 0.1535
340
320
300
280
260
240
220
200
180
160

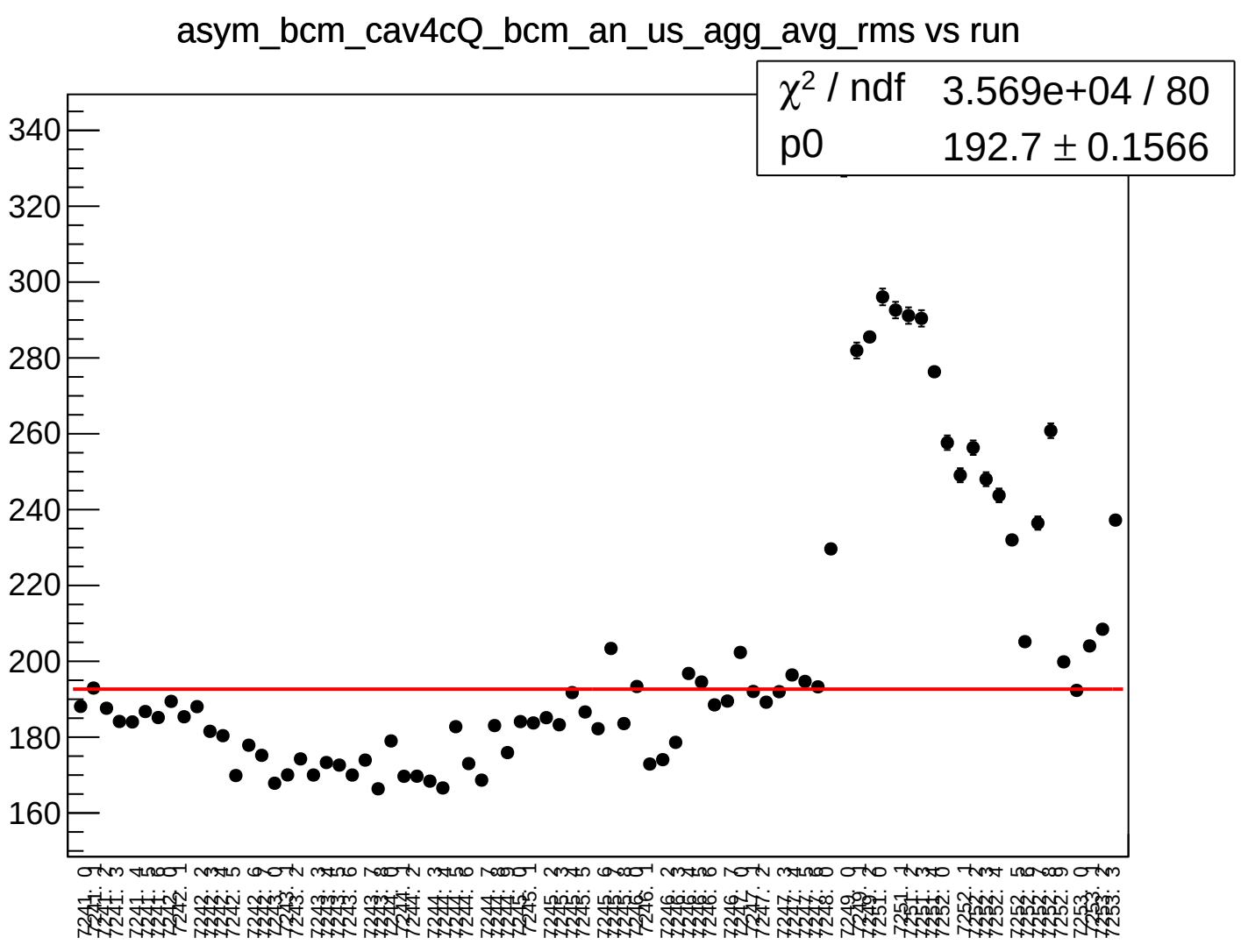

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 63.27 / 80
p0 −33.96 ± 28.93
pull
Entries 81
Mean −161.7
Std Dev 0

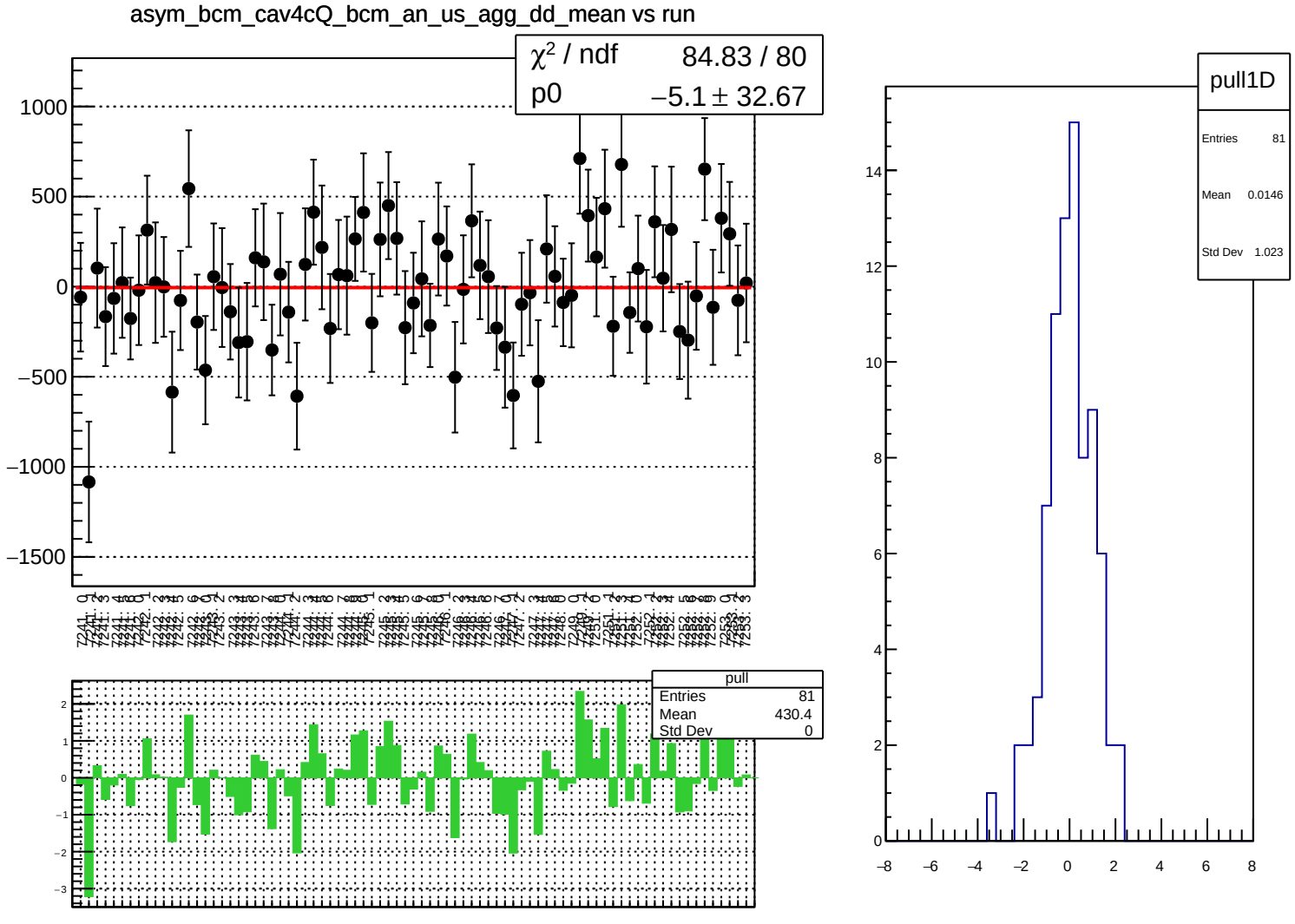

pull1D
Entries 81
Mean −0.02053
Std Dev 0.8835

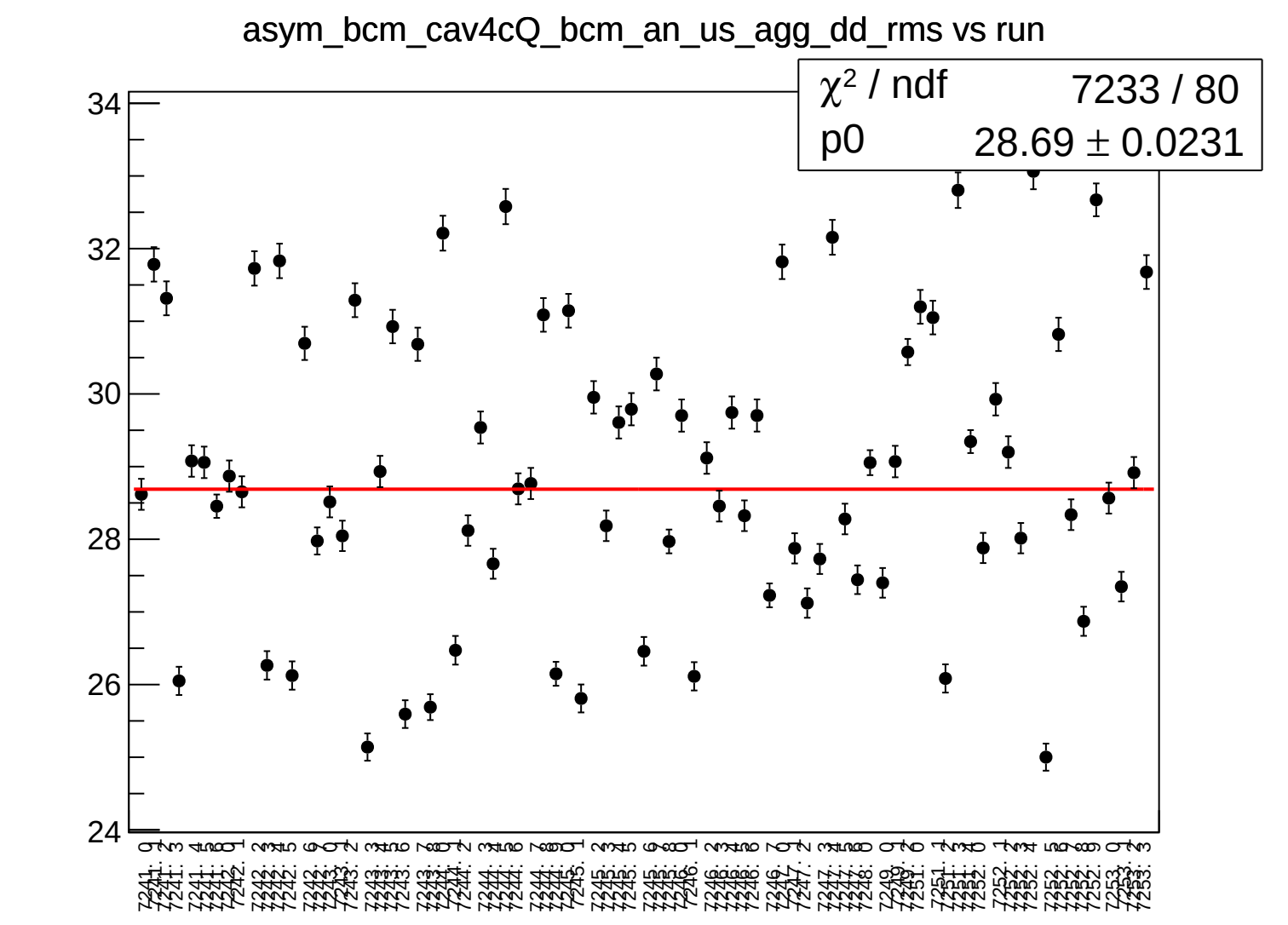

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 3040 / 80
p0 25.44 ± 0.02046
29
28
27
26
25
24
23
22

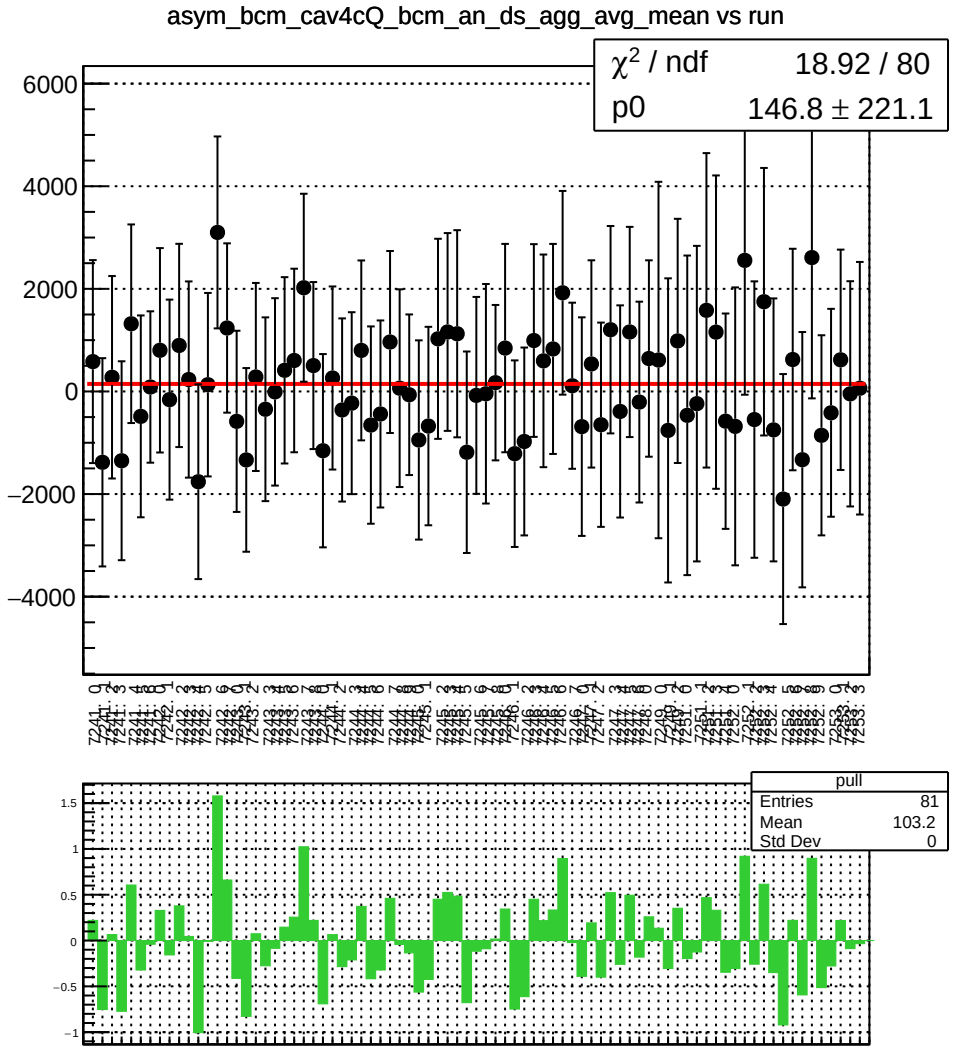

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 17.7 / 80
p0 155.8 ± 221.5
6000
4000
2000
0
−2000
−4000
pull
Entries 81
Mean 51.22
Std Dev 0
1.5
1
0.5
0
−0.5
−1

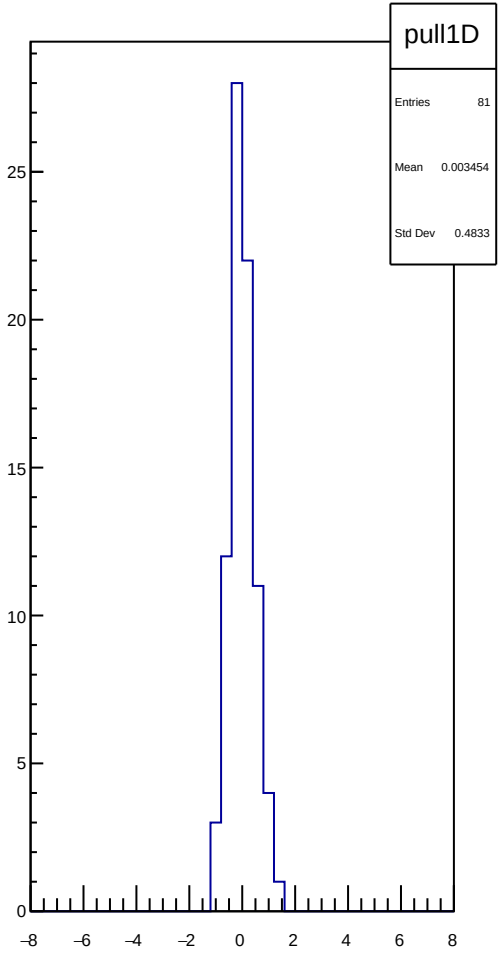

pull1D
Entries 81
Mean 0.004895
Std Dev 0.4675
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

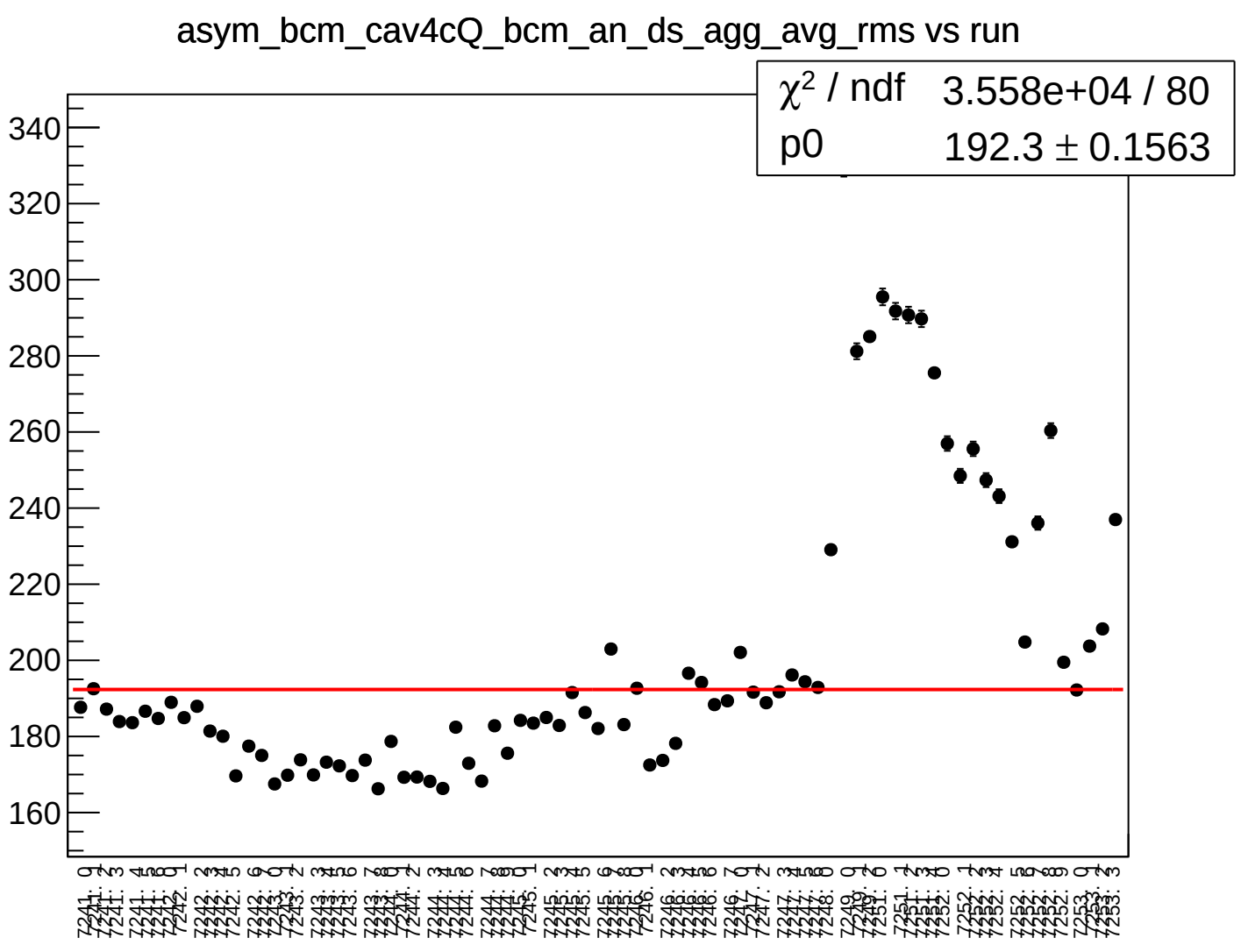

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3.569e+04 / 80
p0 192.7 ± 0.1566
340
320
300
280
260
240
220
200
180
160

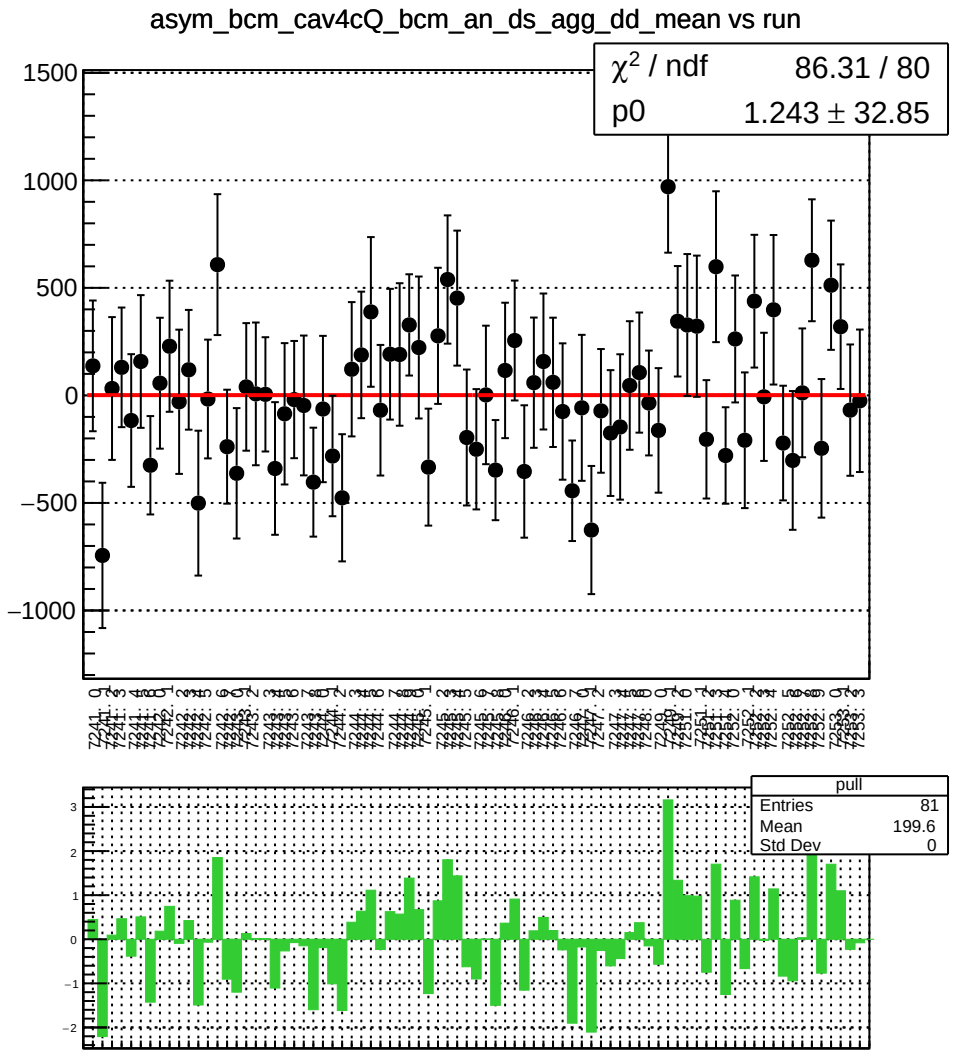

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 84.83 / 80
p0 −5.1 ± 32.67
1000
500
0
−500
−1000
−1500
pull
Entries 81
Mean 430.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 81
Mean 0.0146
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

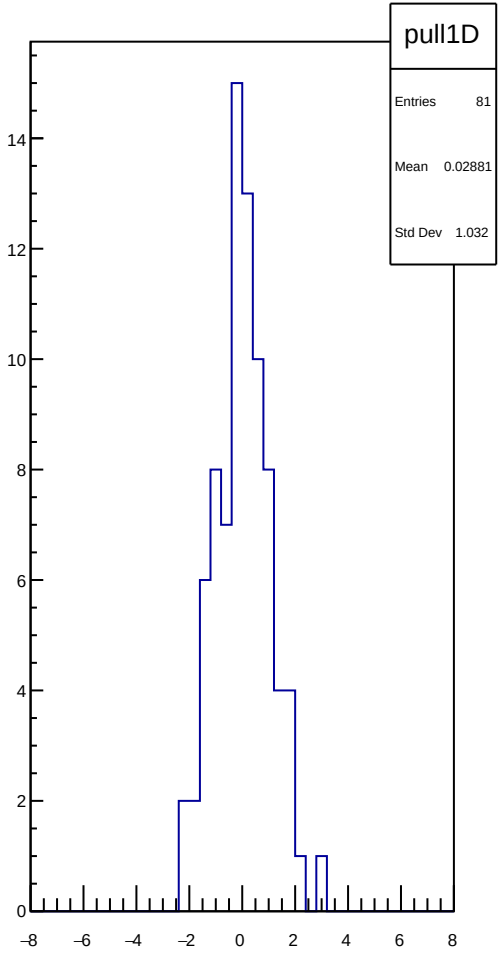

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 7233 / 80
p0 28.69 ± 0.0231
34
32
30
28
26
24

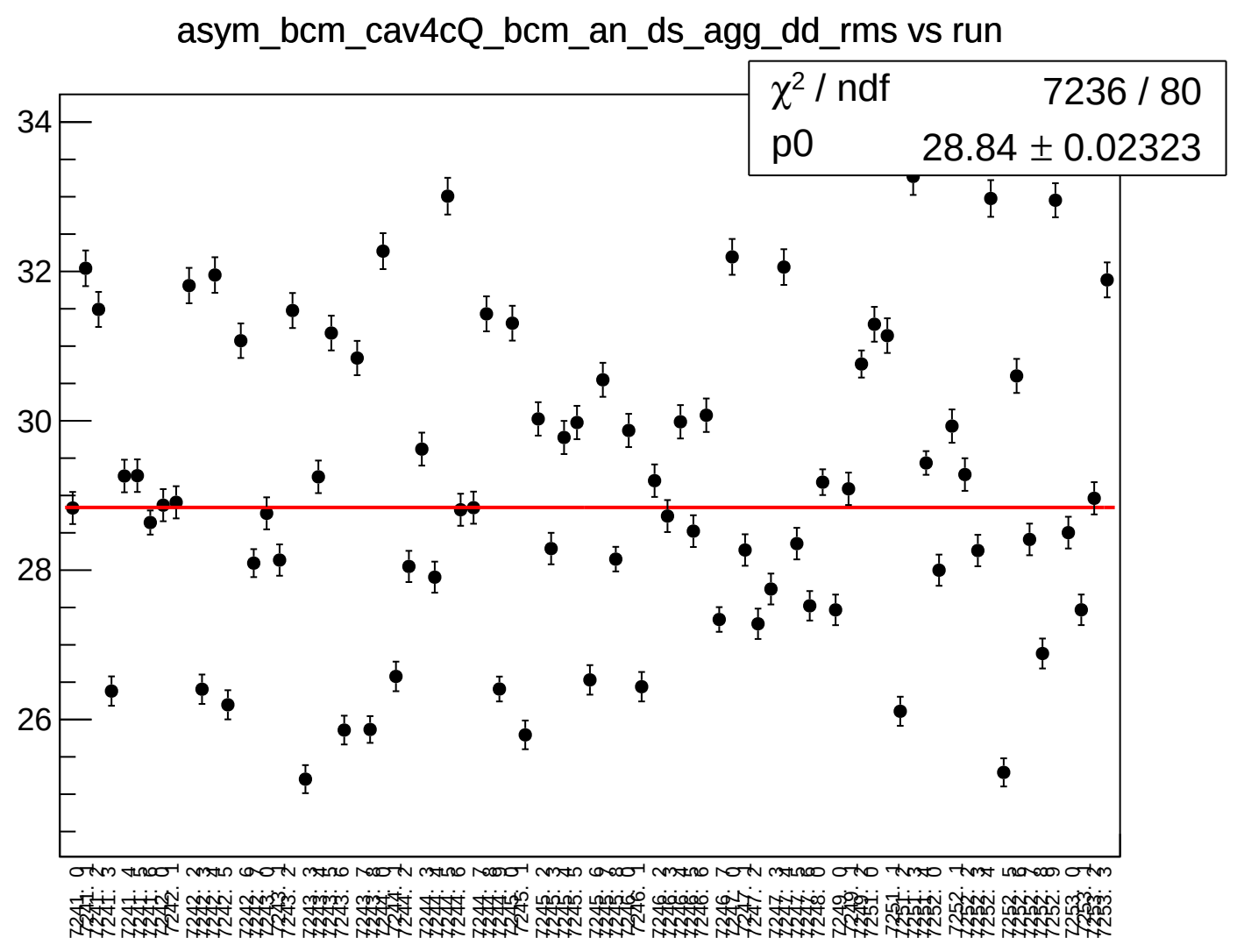

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 18.92 / 80
p0 146.8 ± 221.1
pull
Entries 81
Mean 103.2
Std Dev 0

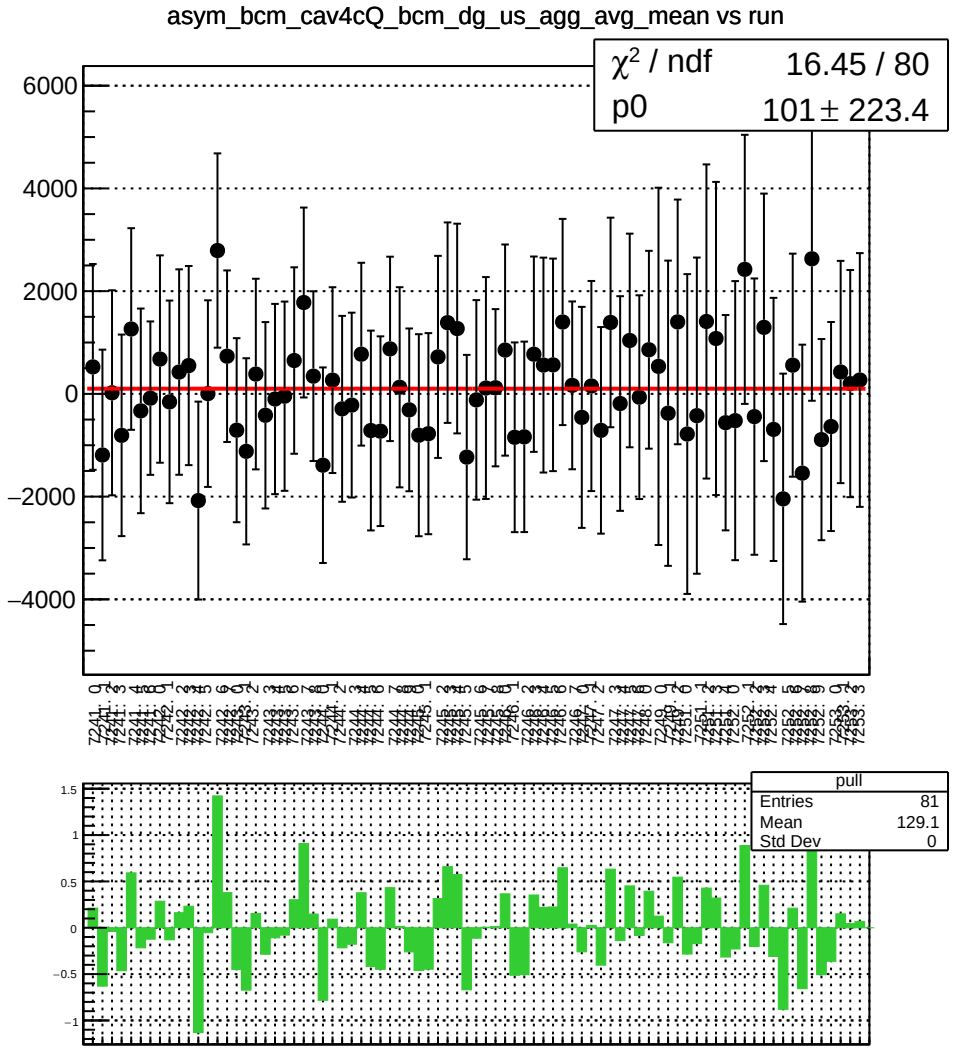

pull1D
Entries 81
Mean 0.003454
Std Dev 0.4833

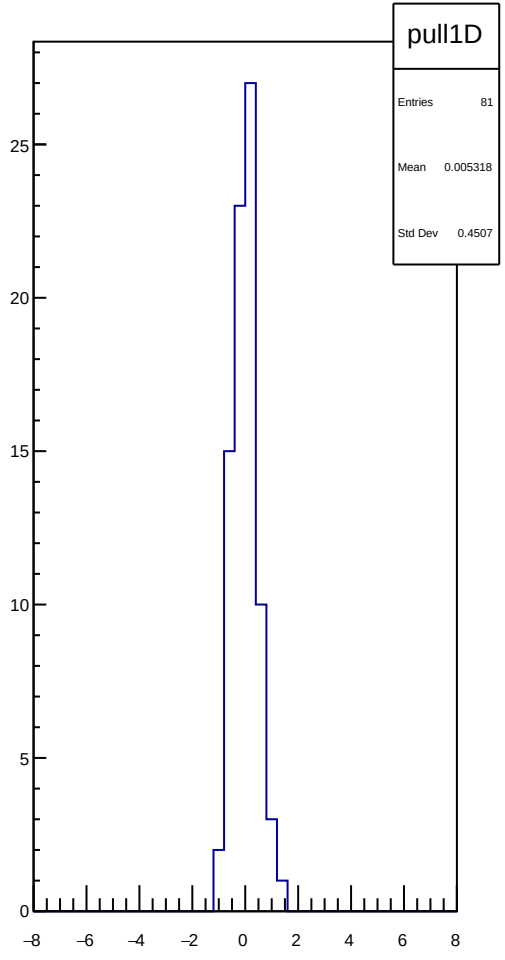

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3.558e+04 / 80
p0 192.3 ± 0.1563
340
320
300
280
260
240
220
200
180
160

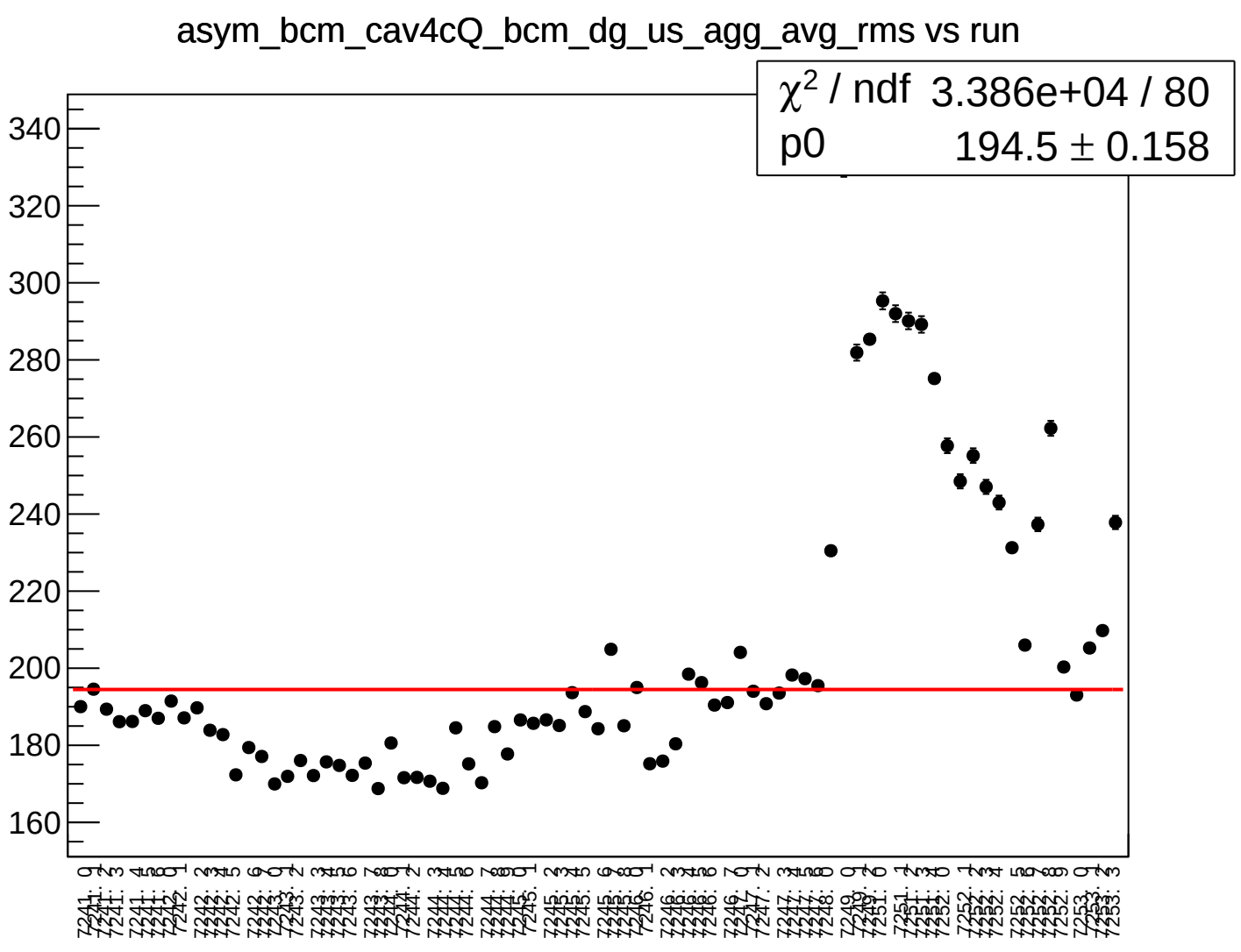

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 86.31 / 80
p0 1.243 ± 32.85
pull
Entries 81
Mean 199.6
Std Dev 0

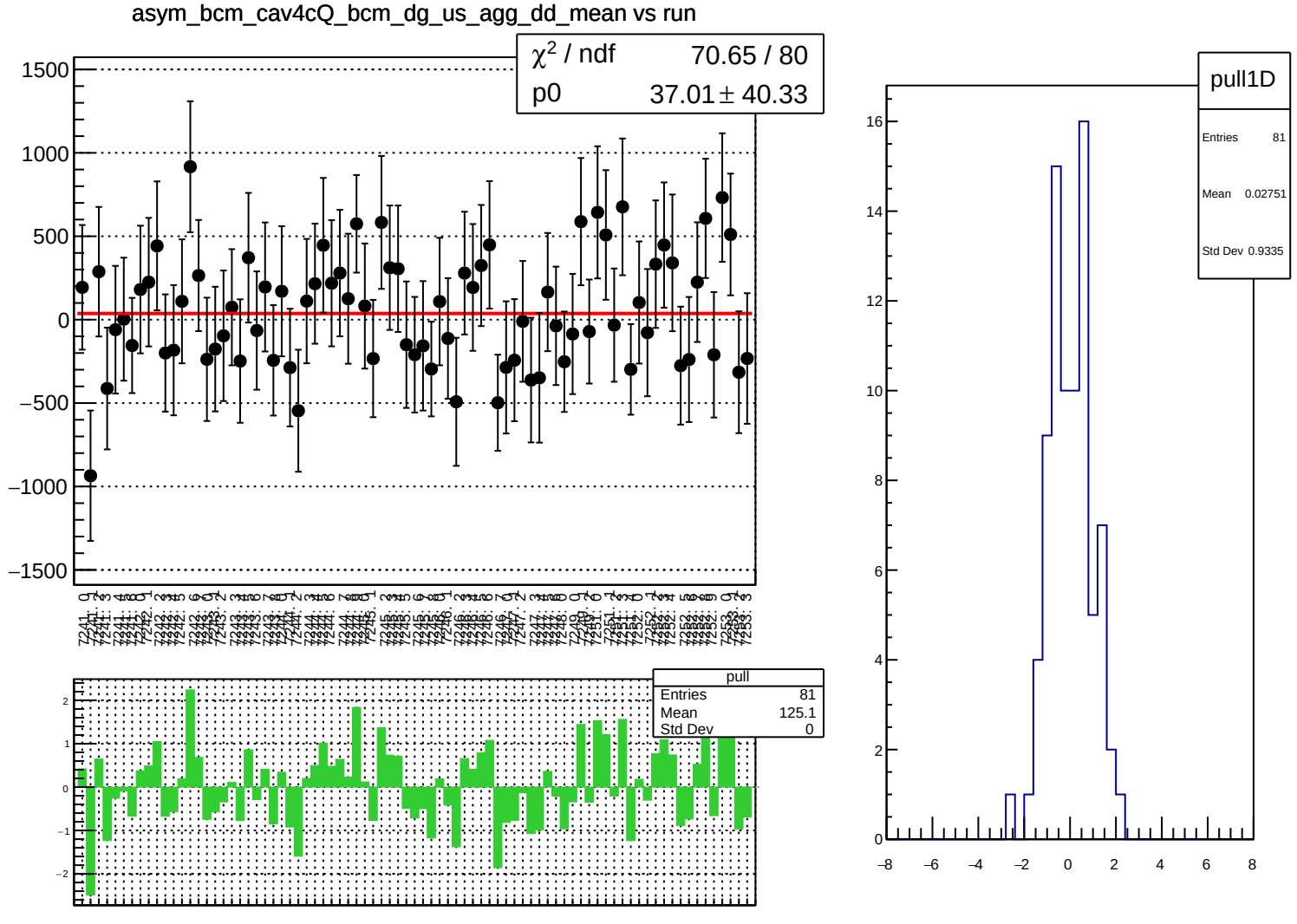

pull1D
Entries 81
Mean 0.02881
Std Dev 1.032

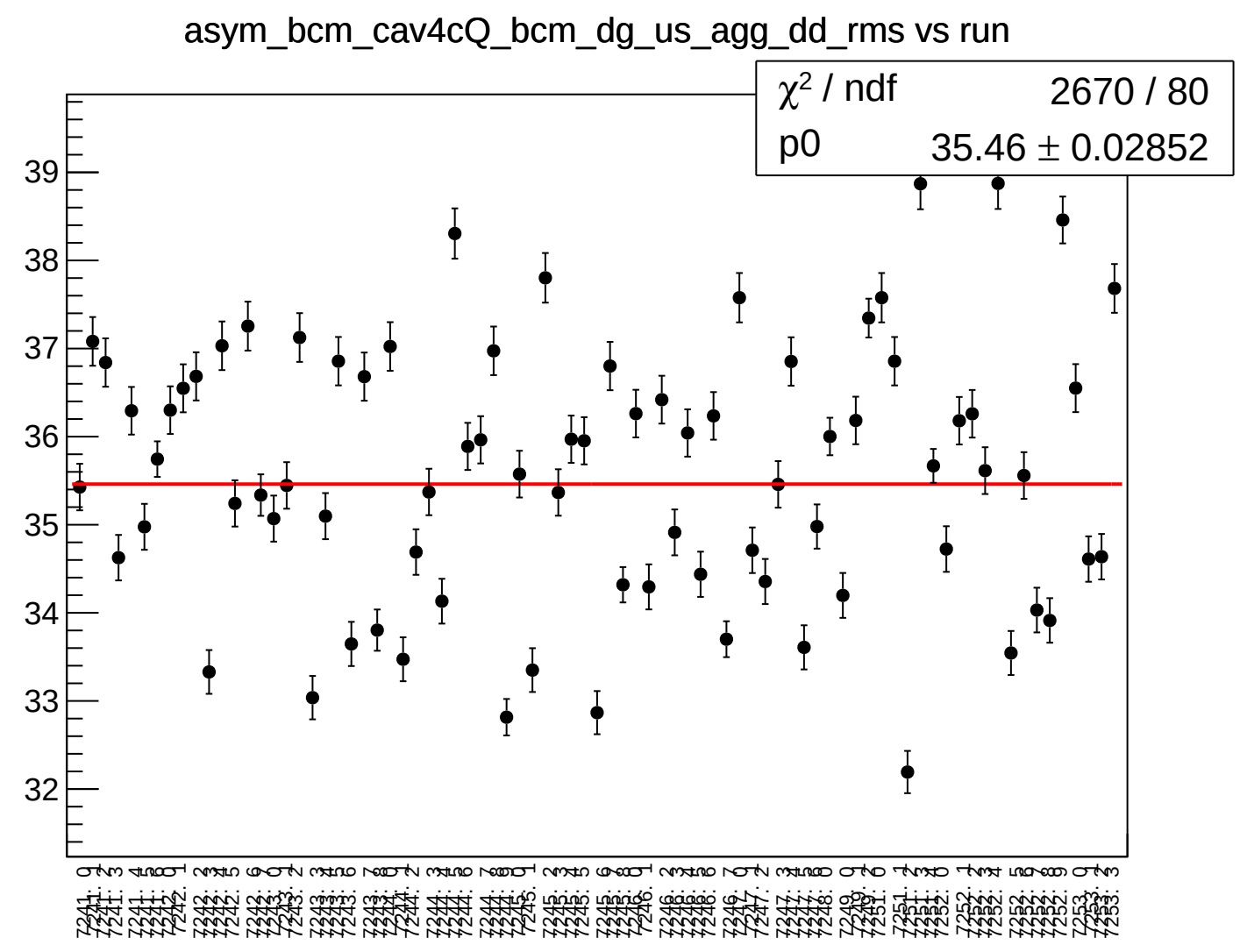

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 7236 / 80
p0 28.84 ± 0.02323
34
32
30
28
26

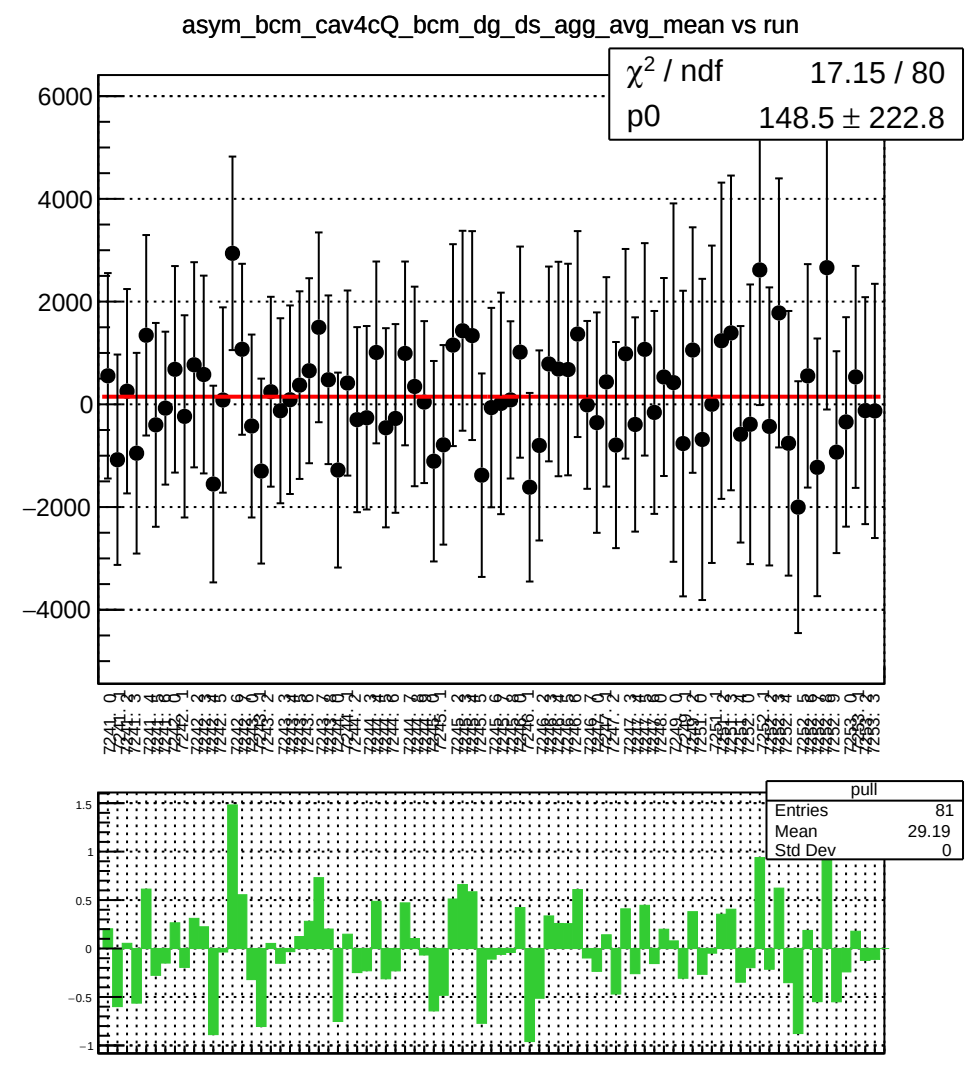

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 16.45 / 80
p0 101 ± 223.4
6000
4000
2000
0
−2000
−4000
pull
Entries 81
Mean 129.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1

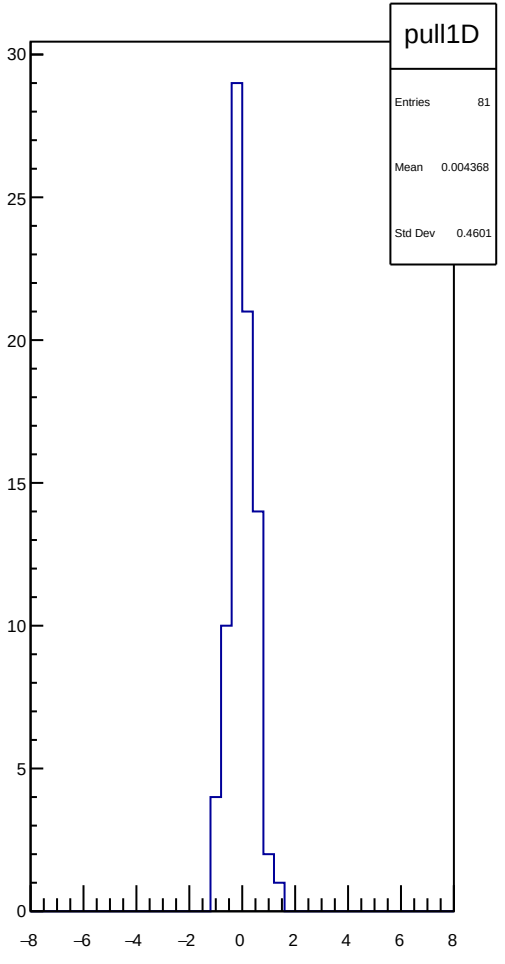

pull1D
Entries 81
Mean 0.005318
Std Dev 0.4507
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

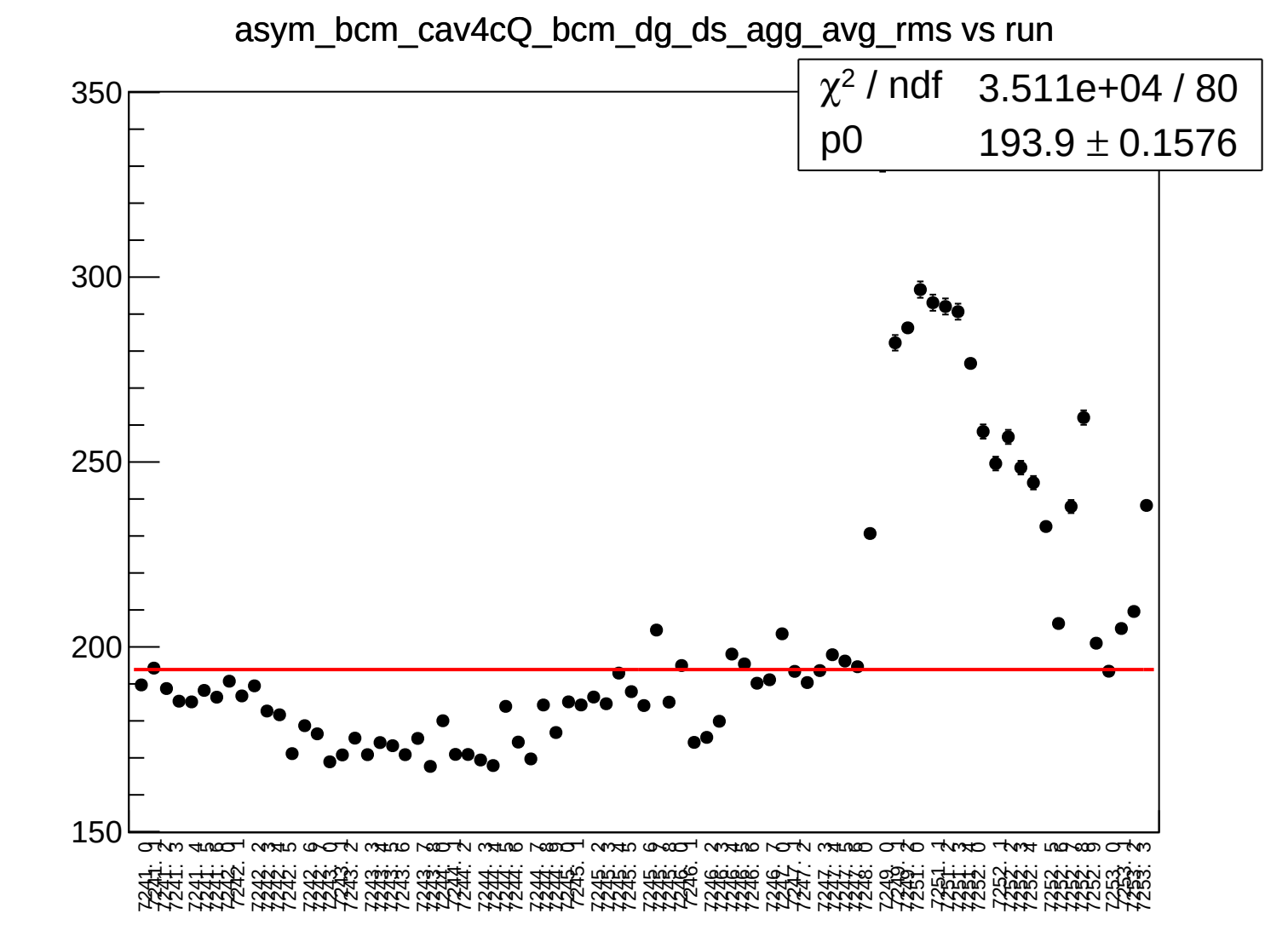

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 3.386e+04 / 80
p0 194.5 ± 0.158
340
320
300
280
260
240
220
200
180
160

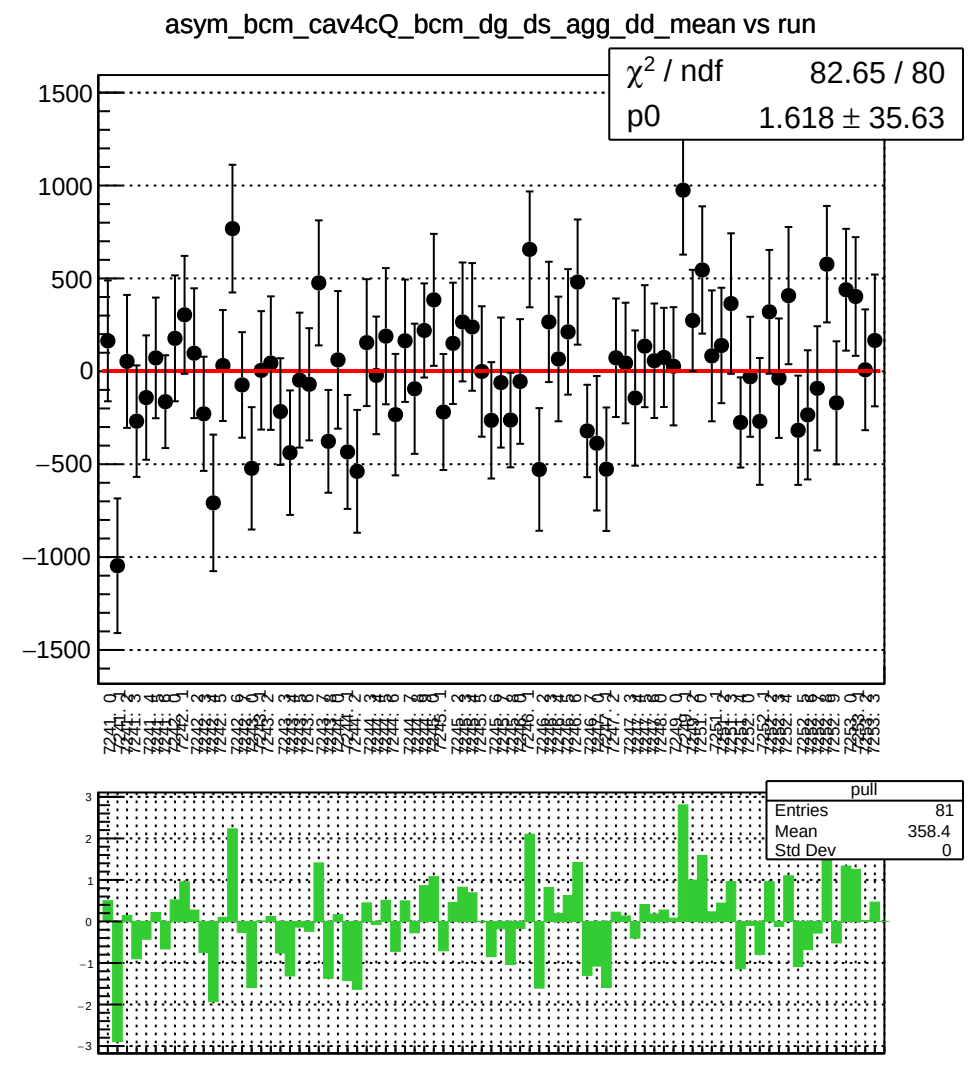

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 70.65 / 80
p0 37.01 ± 40.33
pull
Entries 81
Mean 125.1
Std Dev 0
pull1D
Entries 81
Mean 0.02751
Std Dev 0.9335

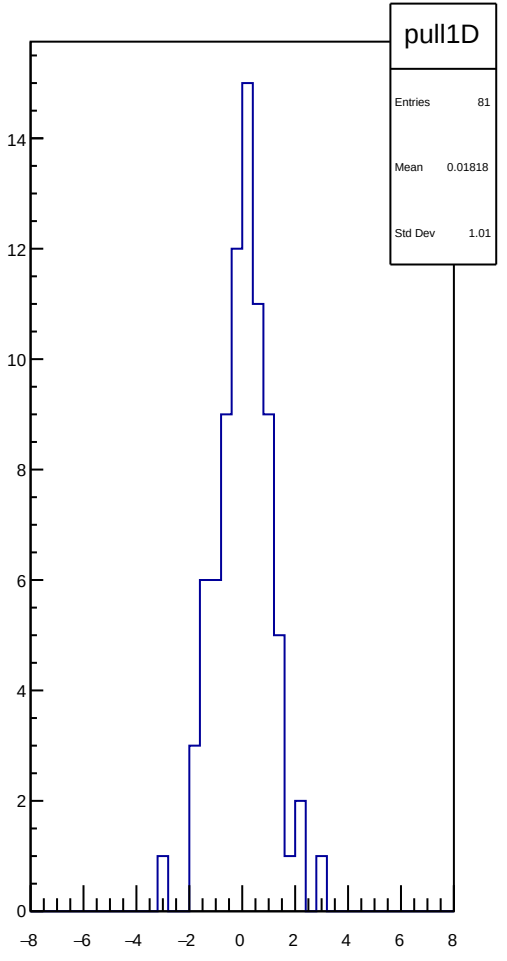

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 2670 / 80
p0 35.46 ± 0.02852
39
38
37
36
35
34
33
32

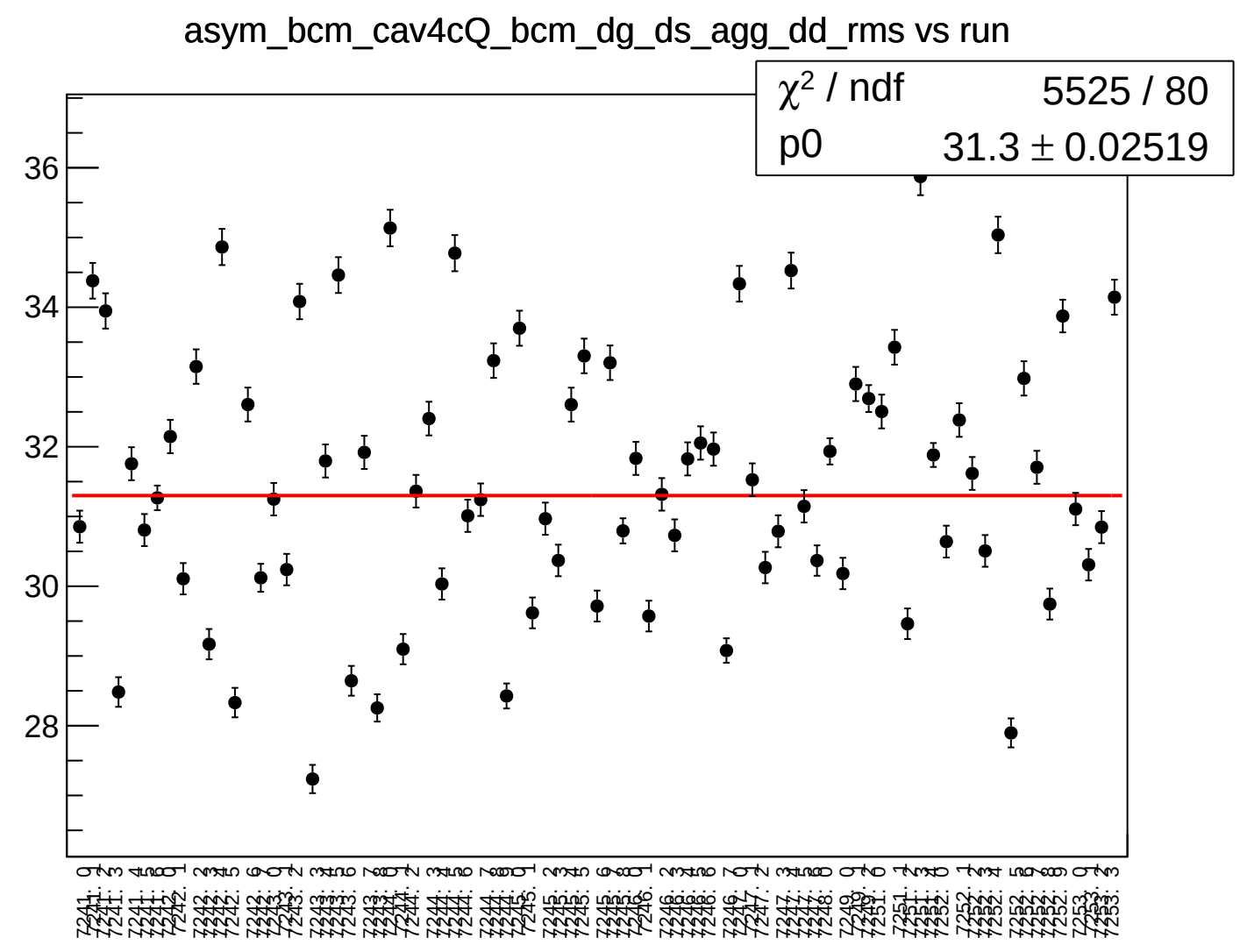

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 17.15 / 80
p0 148.5 ± 222.8
pull
Entries 81
Mean 29.19
Std Dev 0

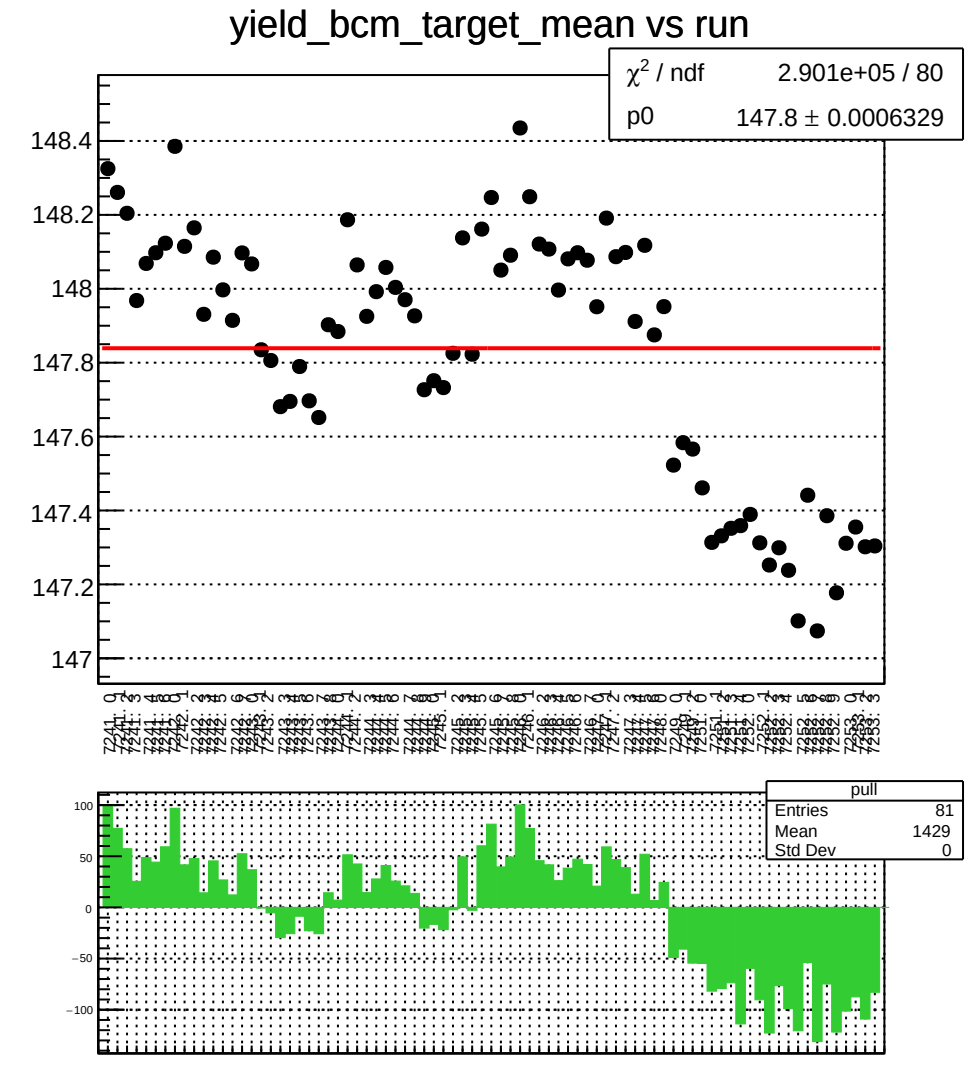

pull1D
Entries 81
Mean 0.004368
Std Dev 0.4601

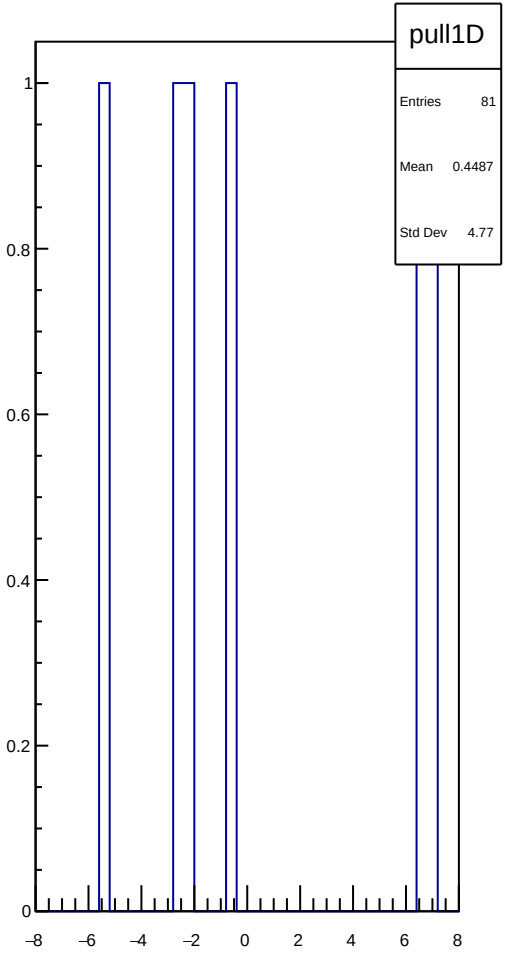

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 3.511e+04 / 80
p0 193.9 ± 0.1576
350
300
250
200
150

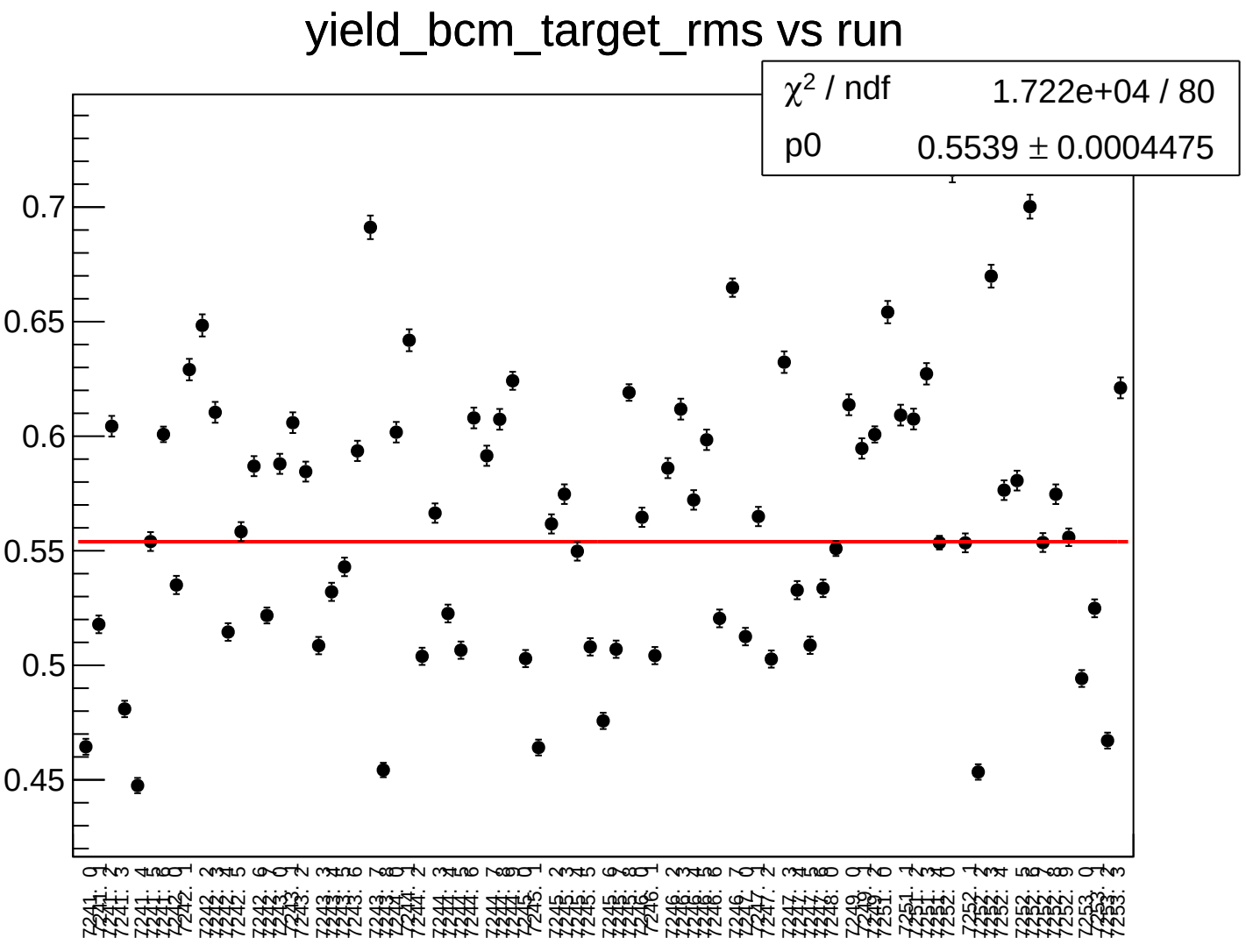

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 82.65 / 80
p0 1.618 ± 35.63
pull
Entries 81
Mean 358.4
Std Dev 0

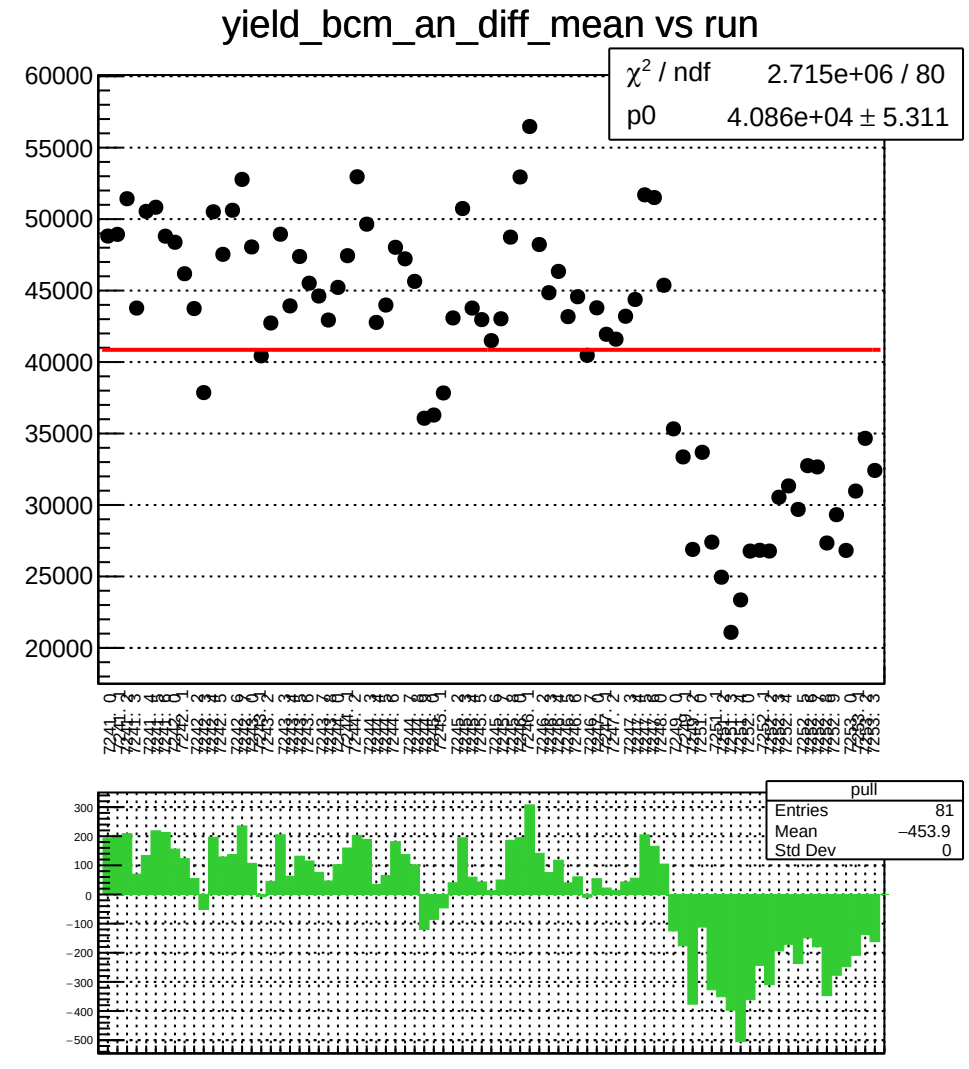

pull1D
Entries 81
Mean 0.01818
Std Dev 1.01

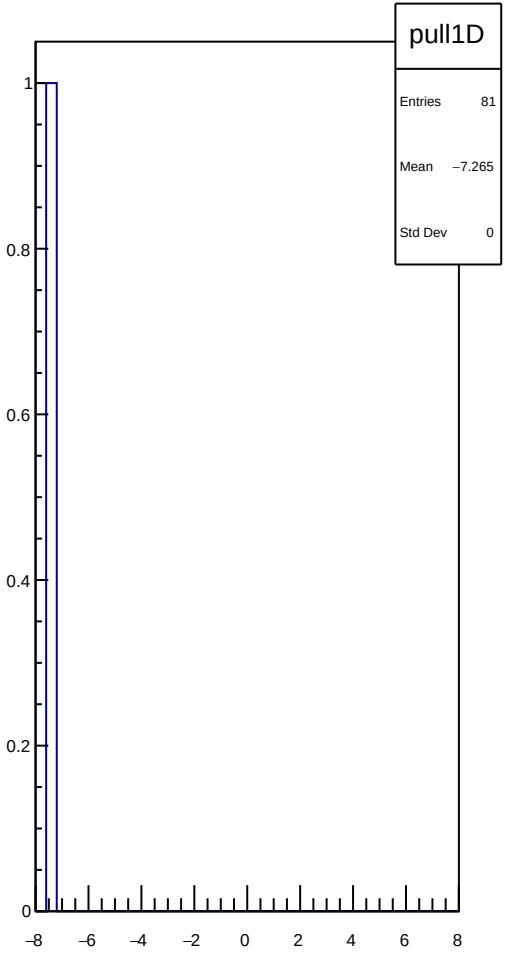

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 5525 / 80
p0 31.3 ± 0.02519
36
34
32
30
28

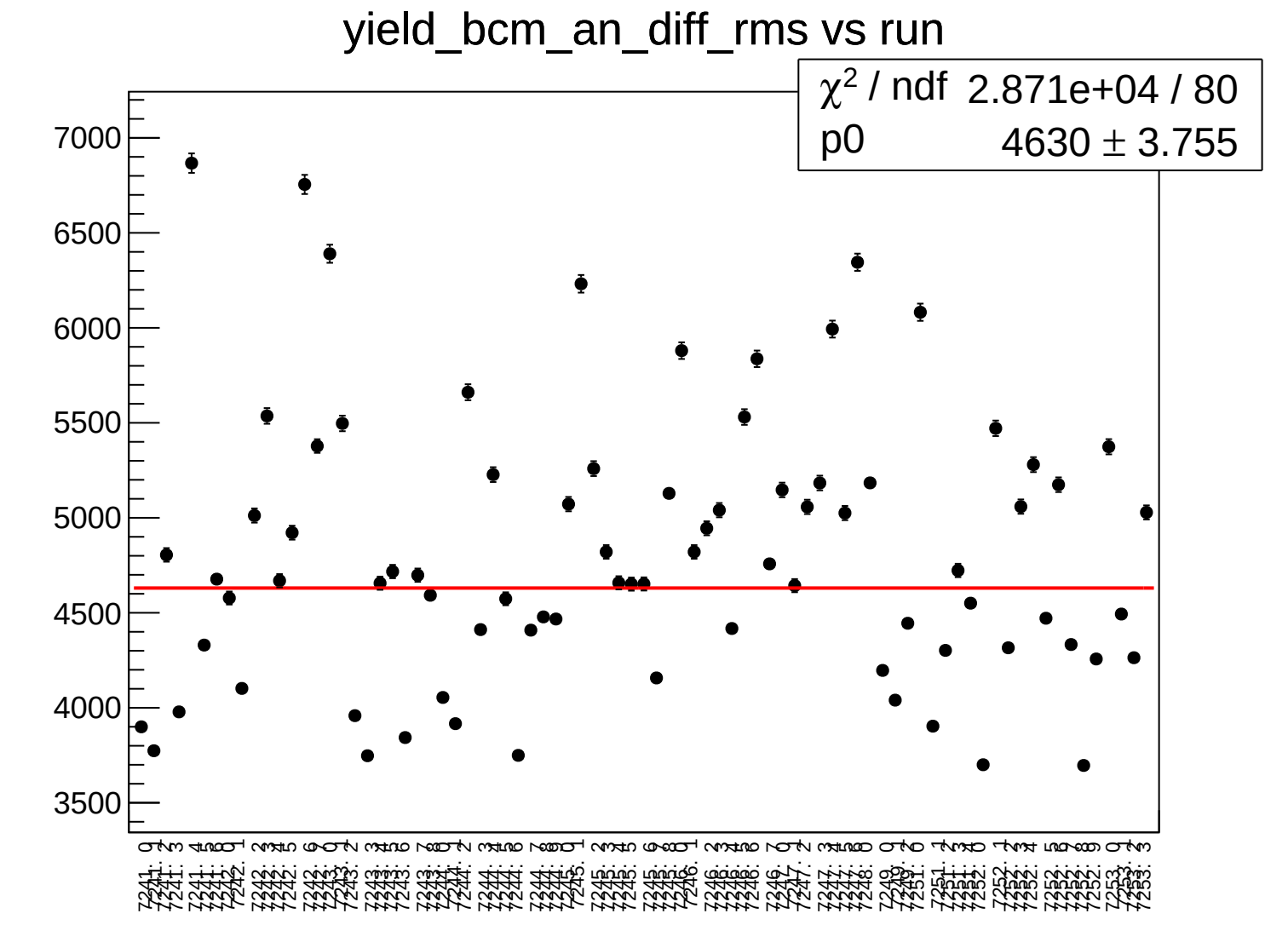

yield_bcm_target_mean vs run
χ² / ndf 2.901e+05 / 80
p0 147.8 ± 0.0006329
148.4
148.2
148
147.8
147.6
147.4
147.2
147
pull
Entries 81
Mean 1429
Std Dev 0
100
50
0
−50
−100

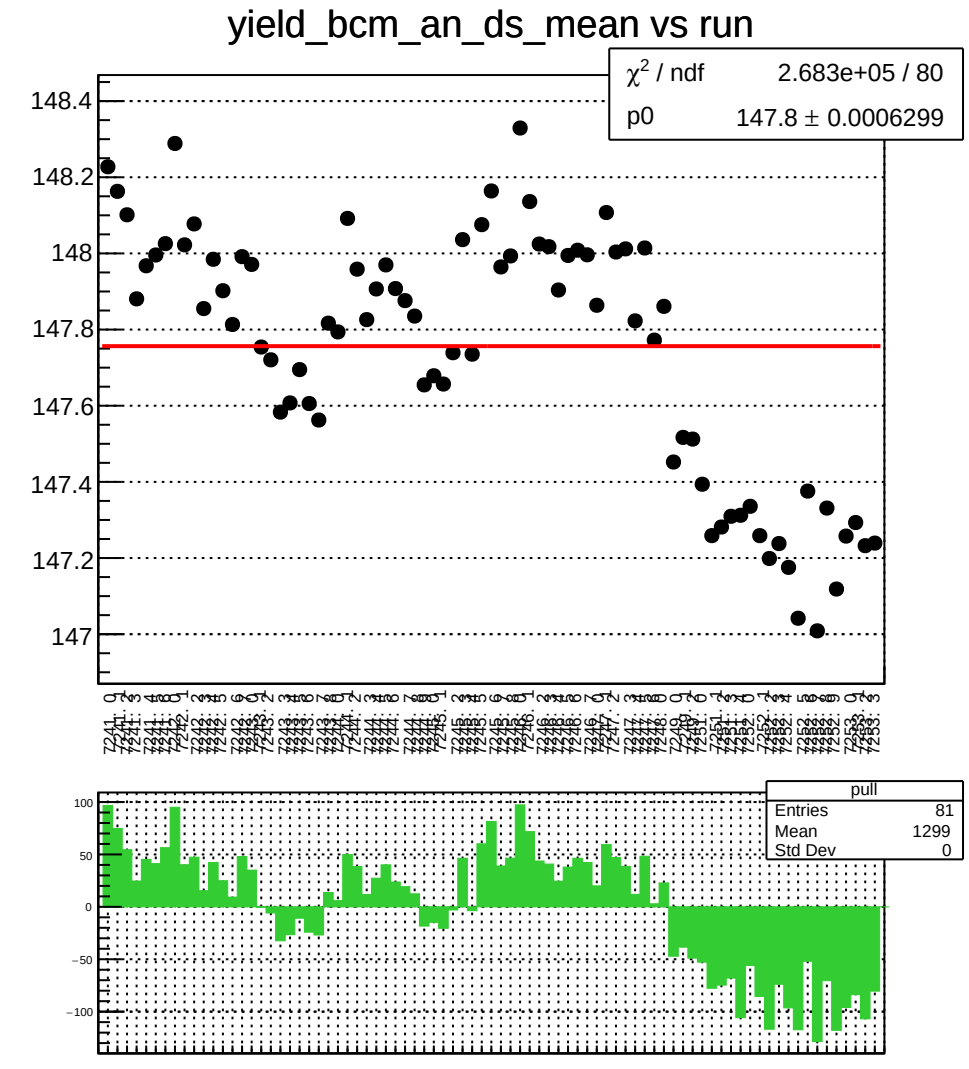

pull1D
Entries 81
Mean 0.4487
Std Dev 4.77
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

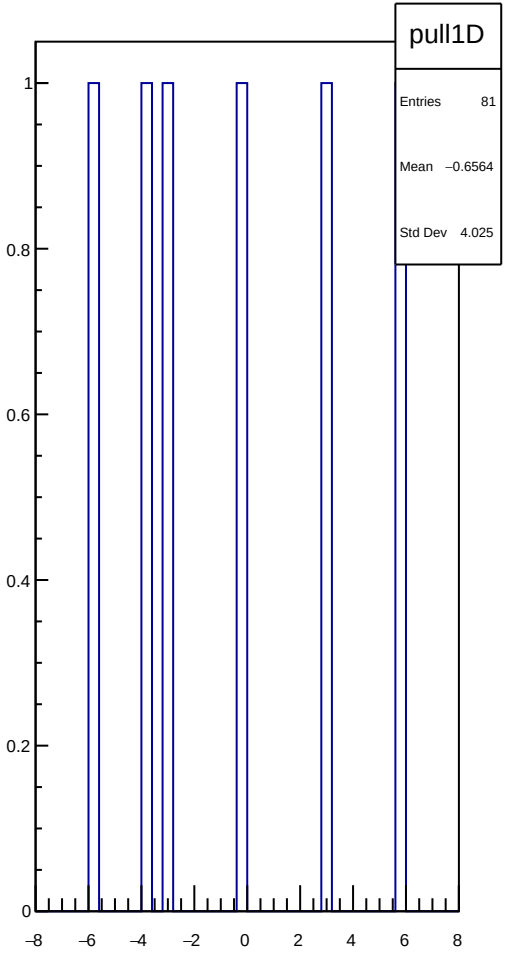

yield_bcm_target_rms vs run
χ² / ndf 1.722e+04 / 80
p0 0.5539 ± 0.0004475
0.7
0.65
0.6
0.55
0.5
0.45

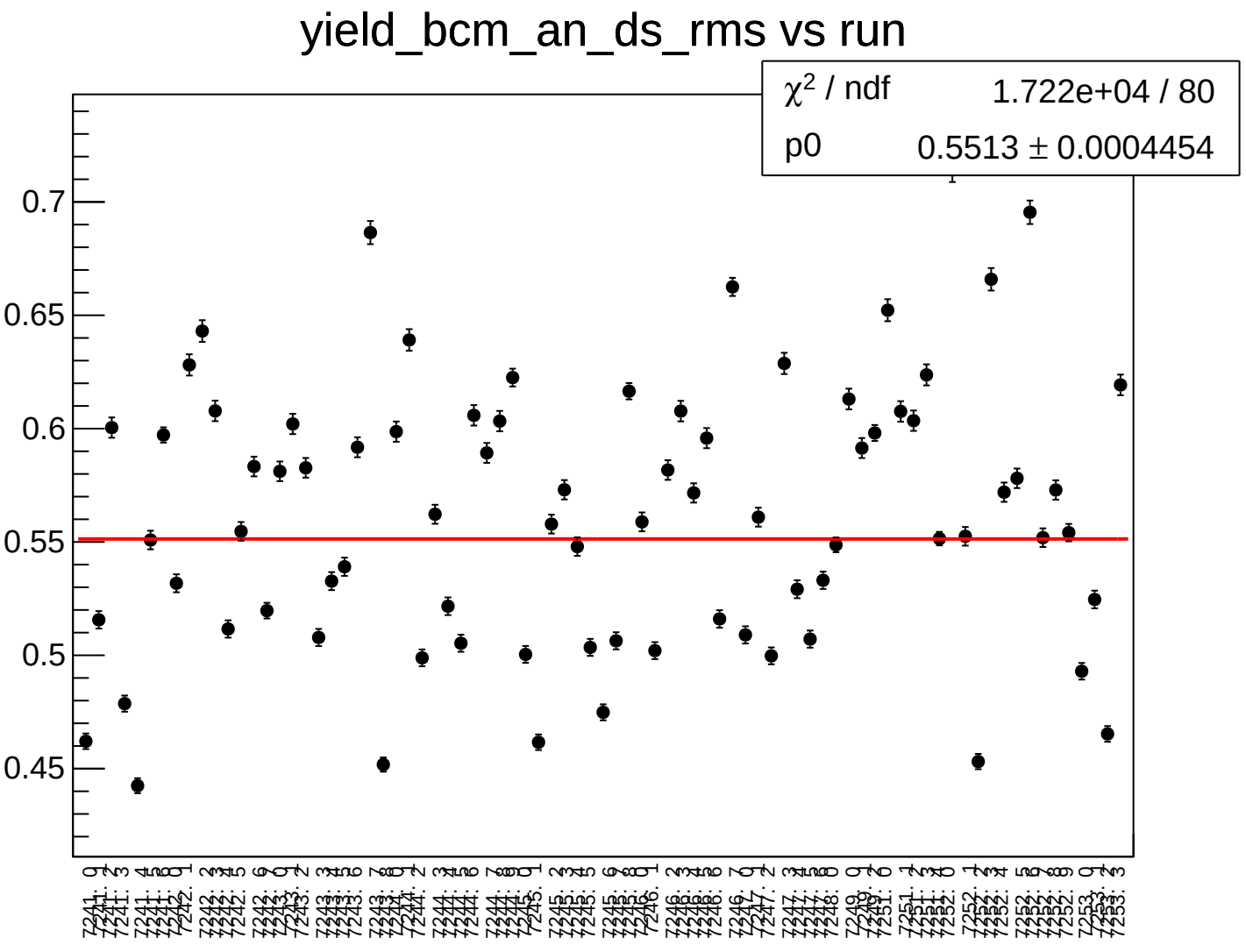

yield_bcm_an_diff_mean vs run
χ² / ndf 2.715e+06 / 80
p0 4.086e+04 ± 5.311
pull
Entries 81
Mean −453.9
Std Dev 0

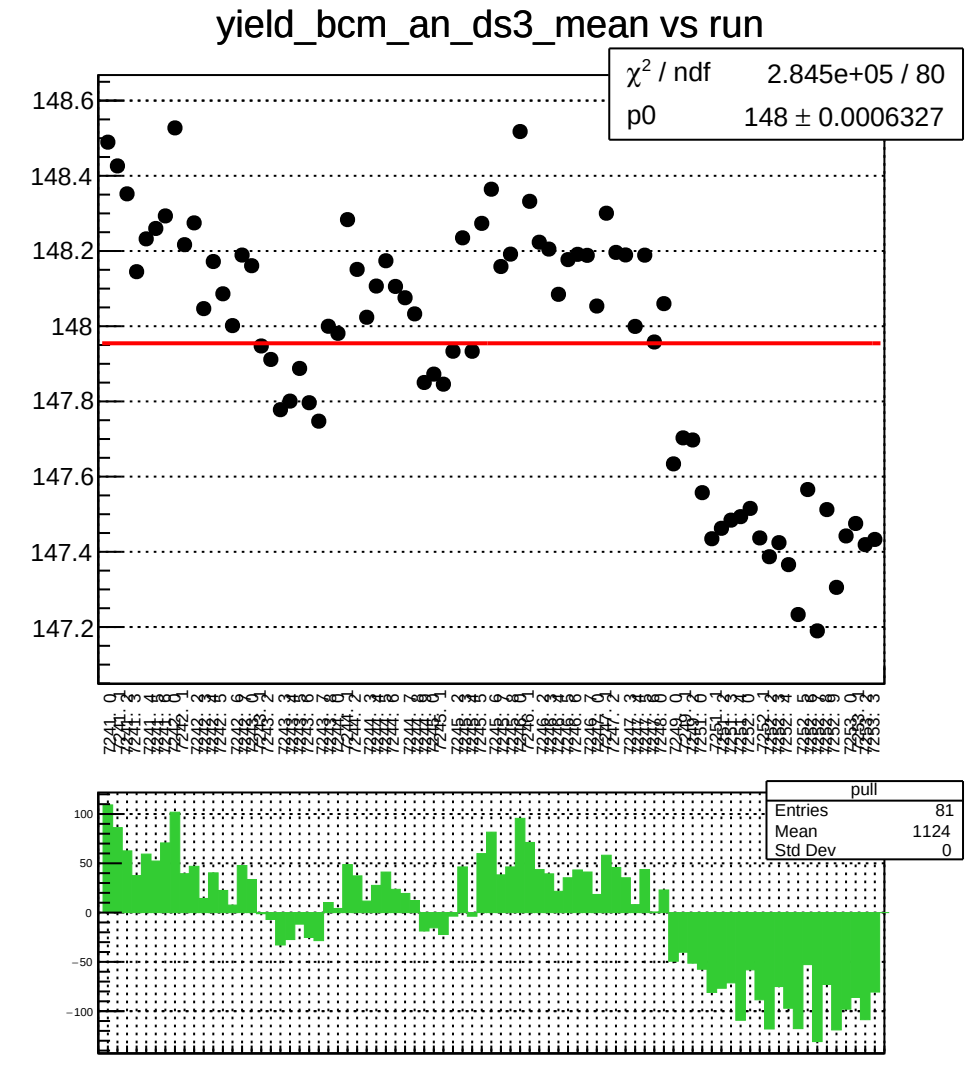

pull1D
Entries 81
Mean −7.265
Std Dev 0

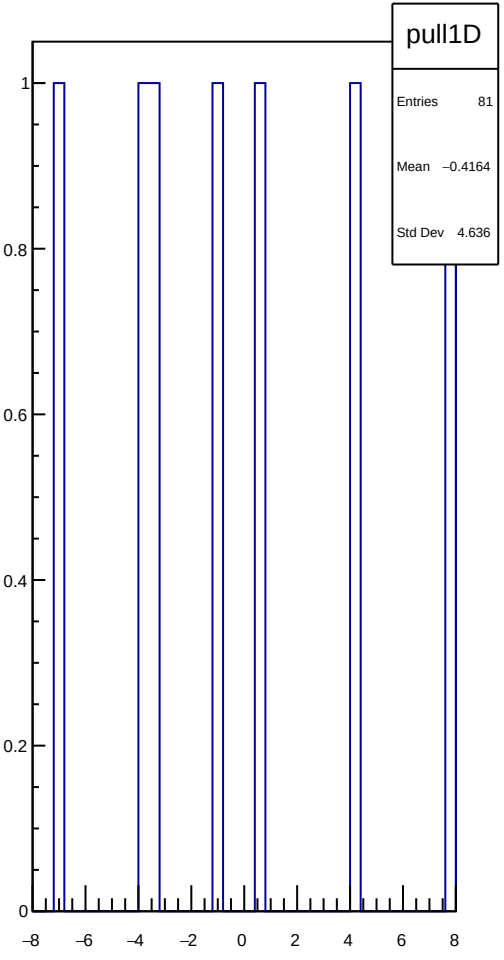

yield_bcm_an_diff_rms vs run
χ² / ndf 2.871e+04 / 80
p0 4630 ± 3.755
7000
6500
6000
5500
5000
4500
4000
3500

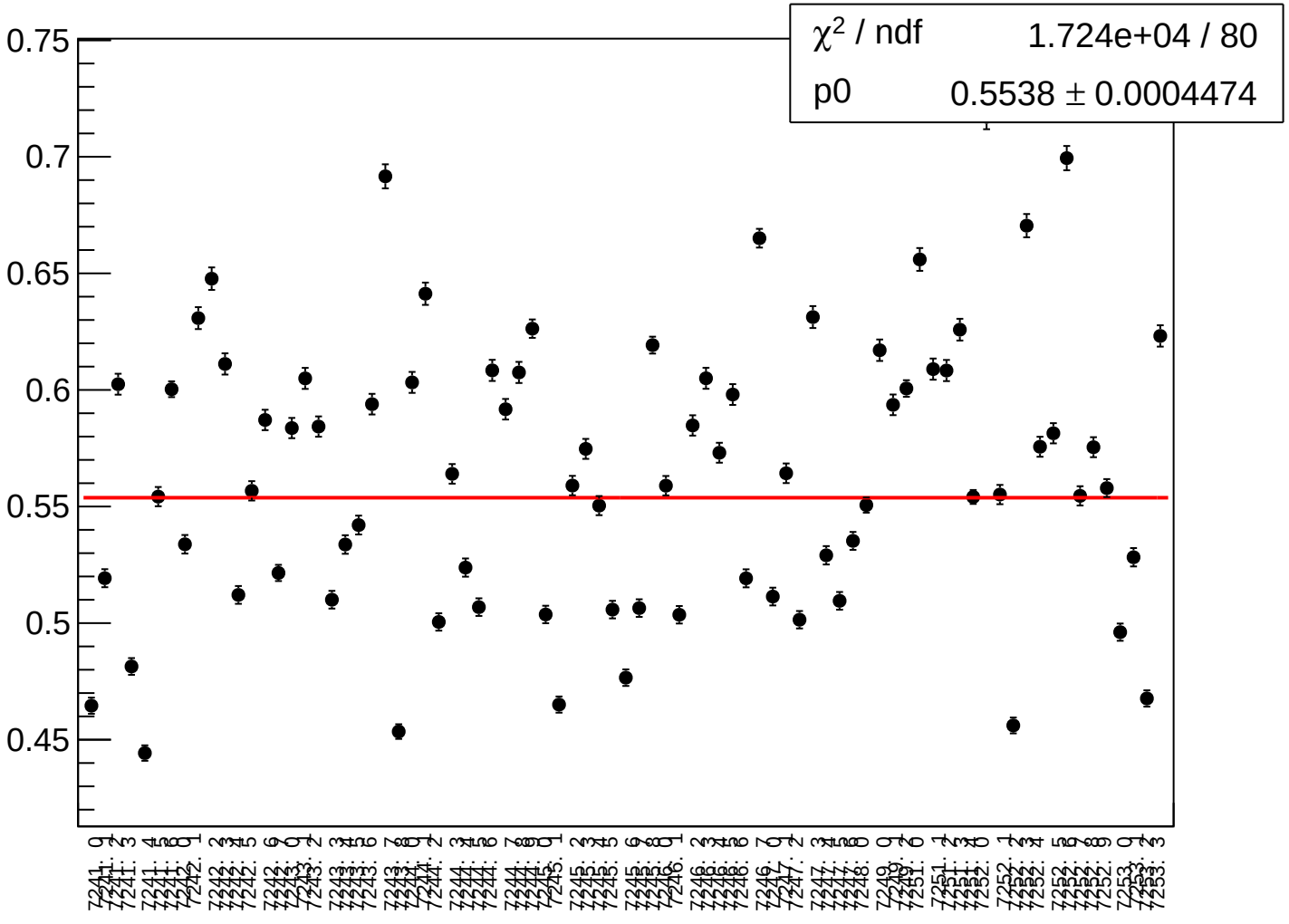

yield_bcm_an_ds_mean vs run
χ² / ndf 2.683e+05 / 80
p0 147.8 ± 0.0006299
148.4
148.2
148
147.8
147.6
147.4
147.2
147
pull
Entries 81
Mean 1299
Std Dev 0
100
50
0
−50
−100

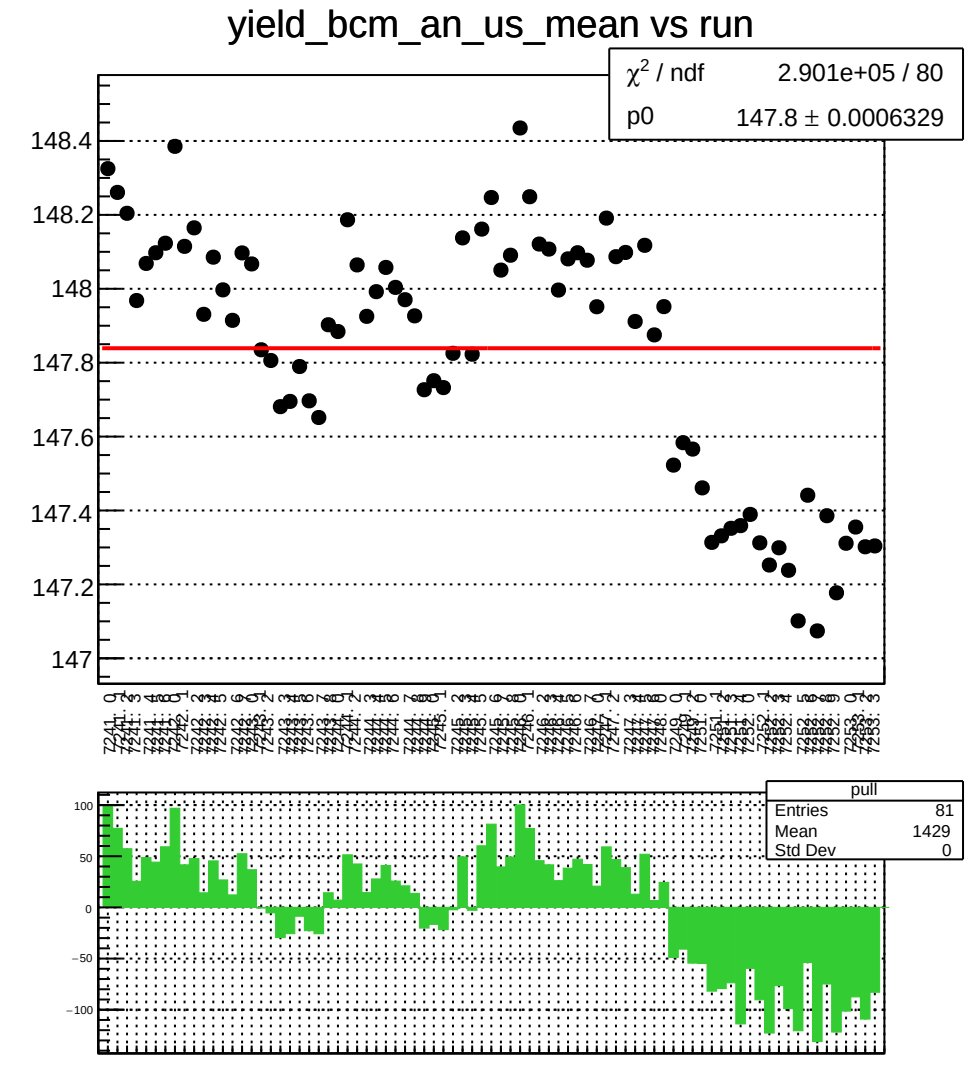

pull1D
Entries 81
Mean −0.6564
Std Dev 4.025
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

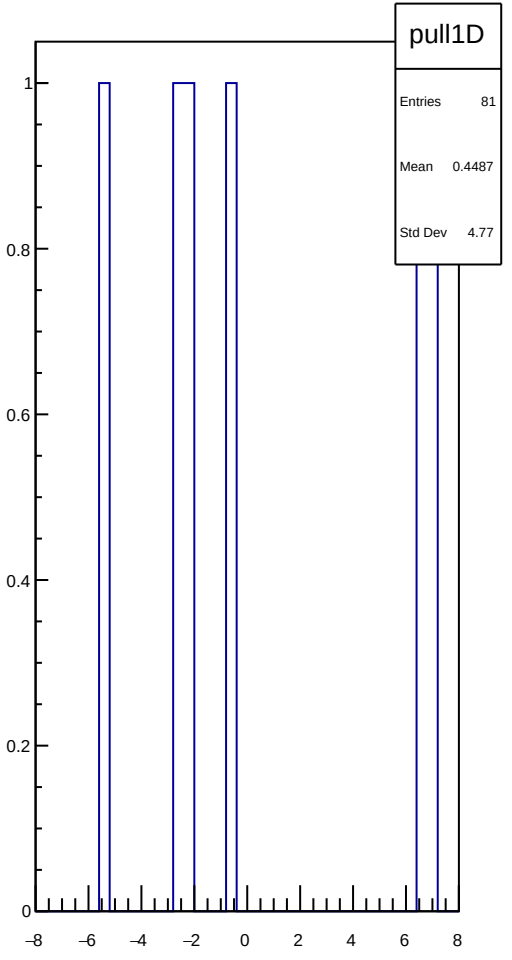

yield_bcm_an_ds_rms vs run
χ² / ndf 1.722e+04 / 80
p0 0.5513 ± 0.0004454
0.7
0.65
0.6
0.55
0.5
0.45

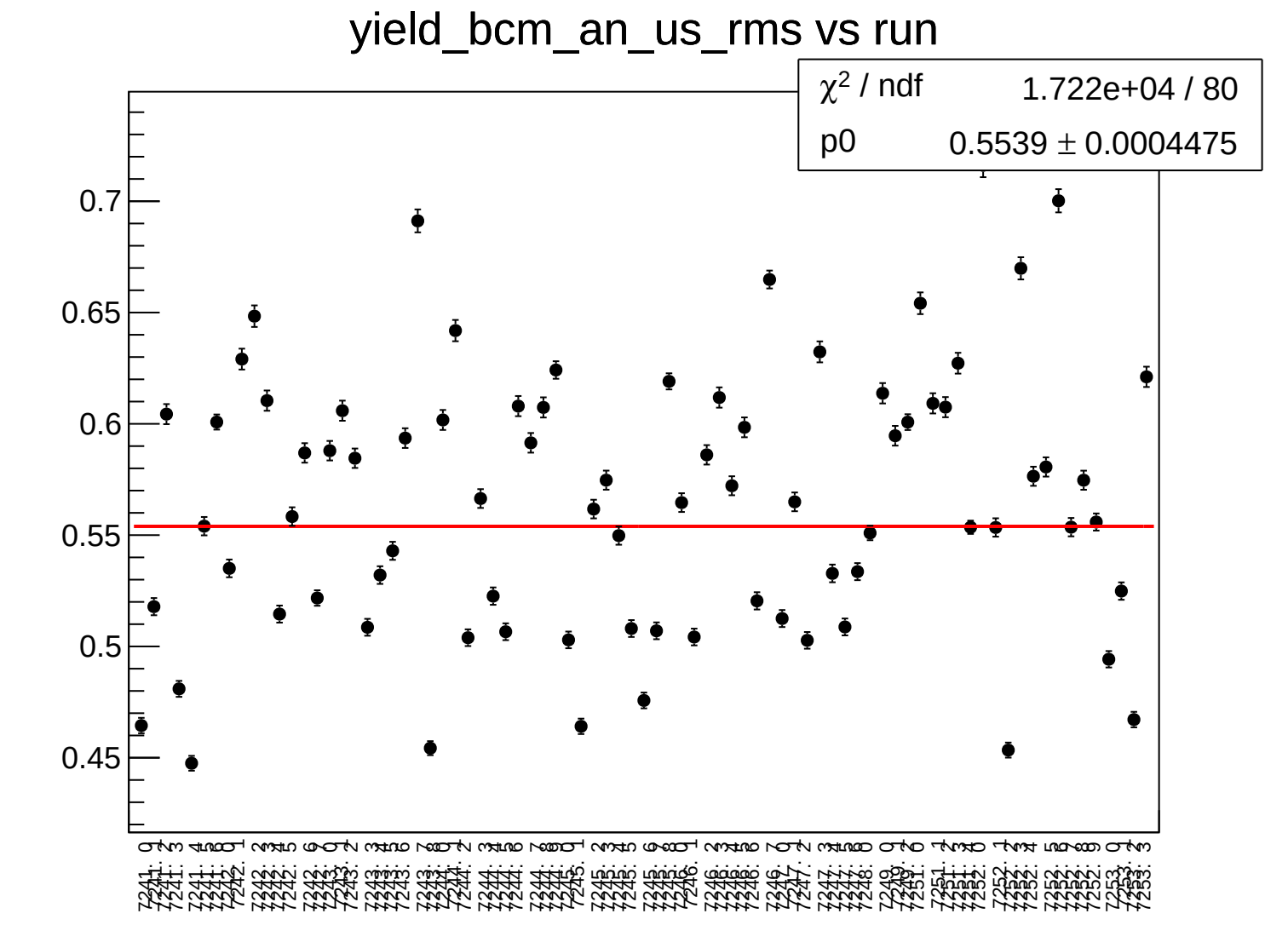

yield_bcm_an_ds3_mean vs run
χ² / ndf 2.845e+05 / 80
p0 148 ± 0.0006327
148.6
148.4
148.2
148
147.8
147.6
147.4
147.2
pull
Entries 81
Mean 1124
Std Dev 0
100
50
0
−50
−100

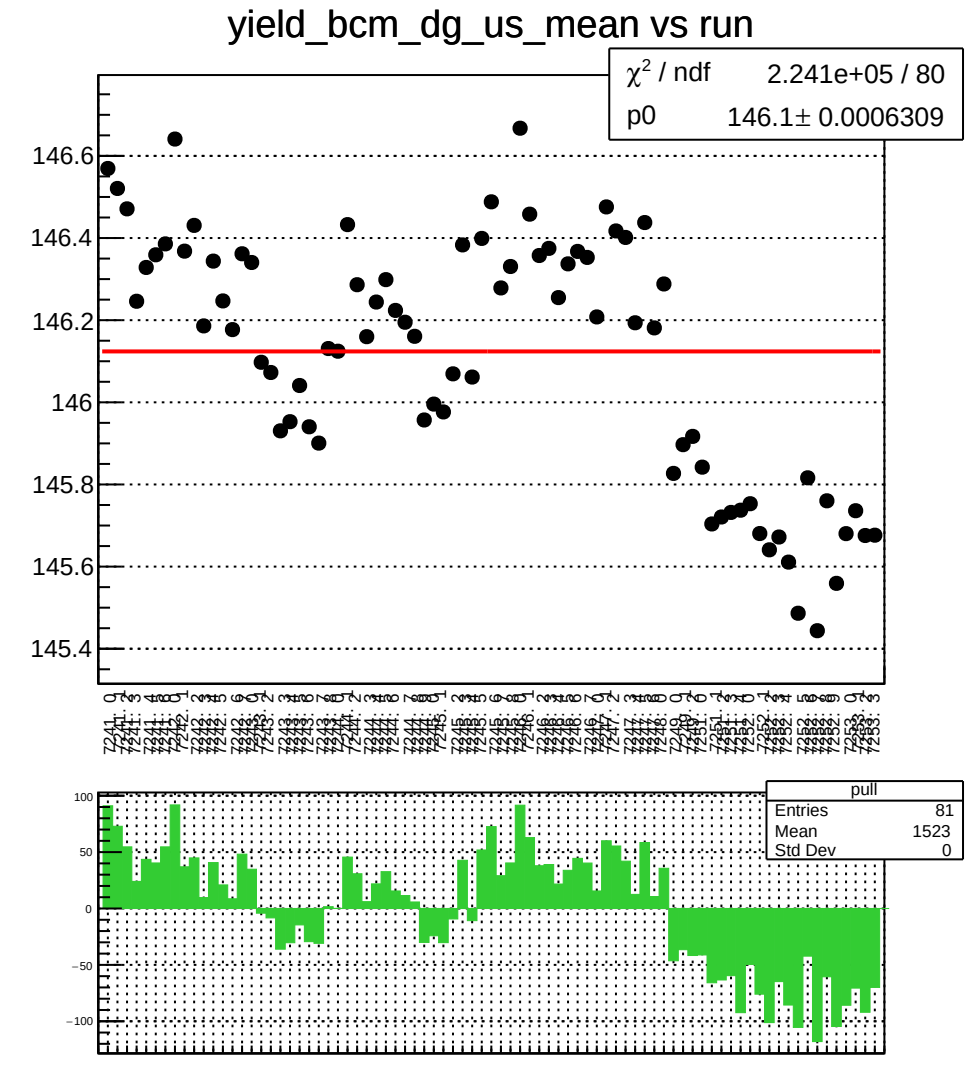

pull1D
Entries 81
Mean −0.4164
Std Dev 4.636
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

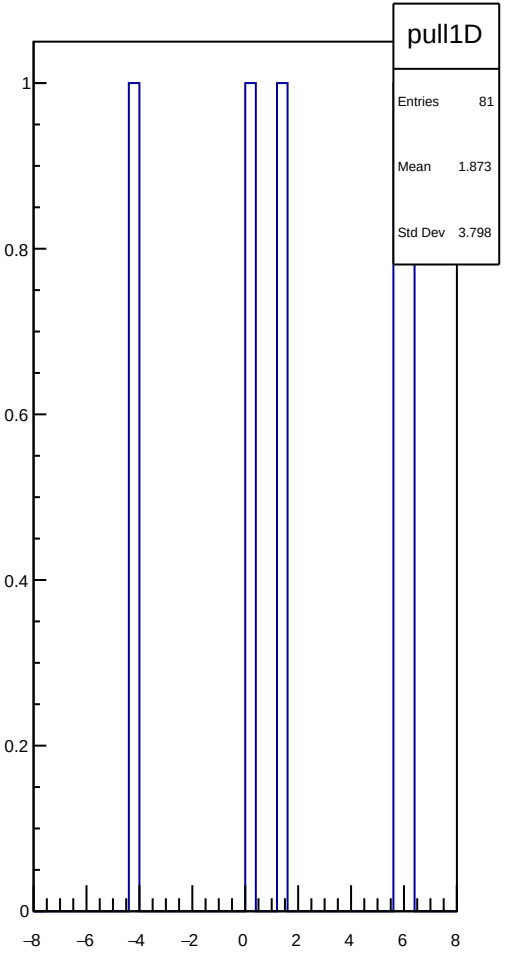

yield_bcm_an_ds3_rms vs run
χ² / ndf 1.724e+04 / 80
p0 0.5538 ± 0.0004474
0.75
0.7
0.65
0.6
0.55
0.5
0.45

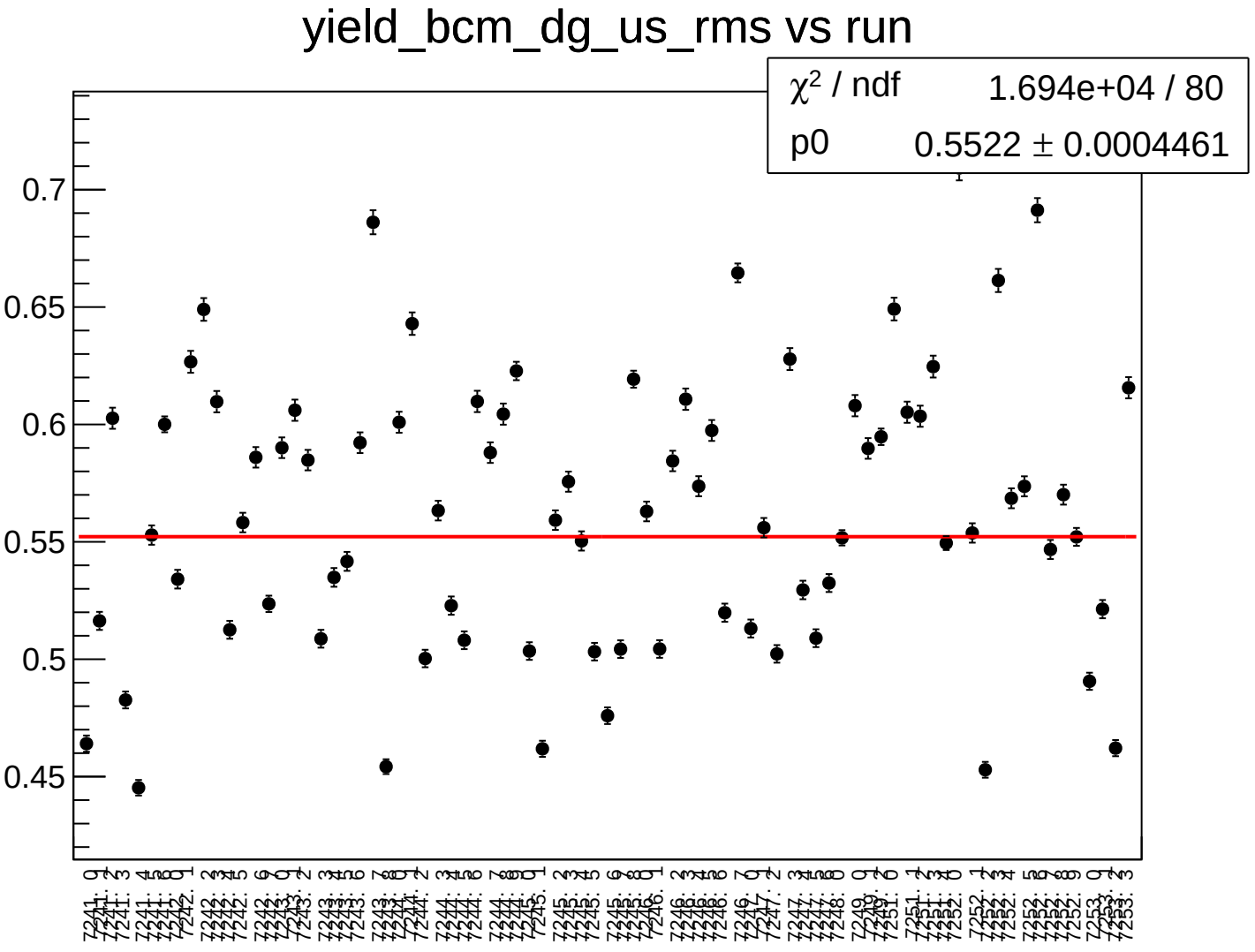

yield_bcm_an_us_mean vs run
χ² / ndf 2.901e+05 / 80
p0 147.8 ± 0.0006329
148.4
148.2
148
147.8
147.6
147.4
147.2
147
pull
Entries 81
Mean 1429
Std Dev 0
100
50
0
−50
−100

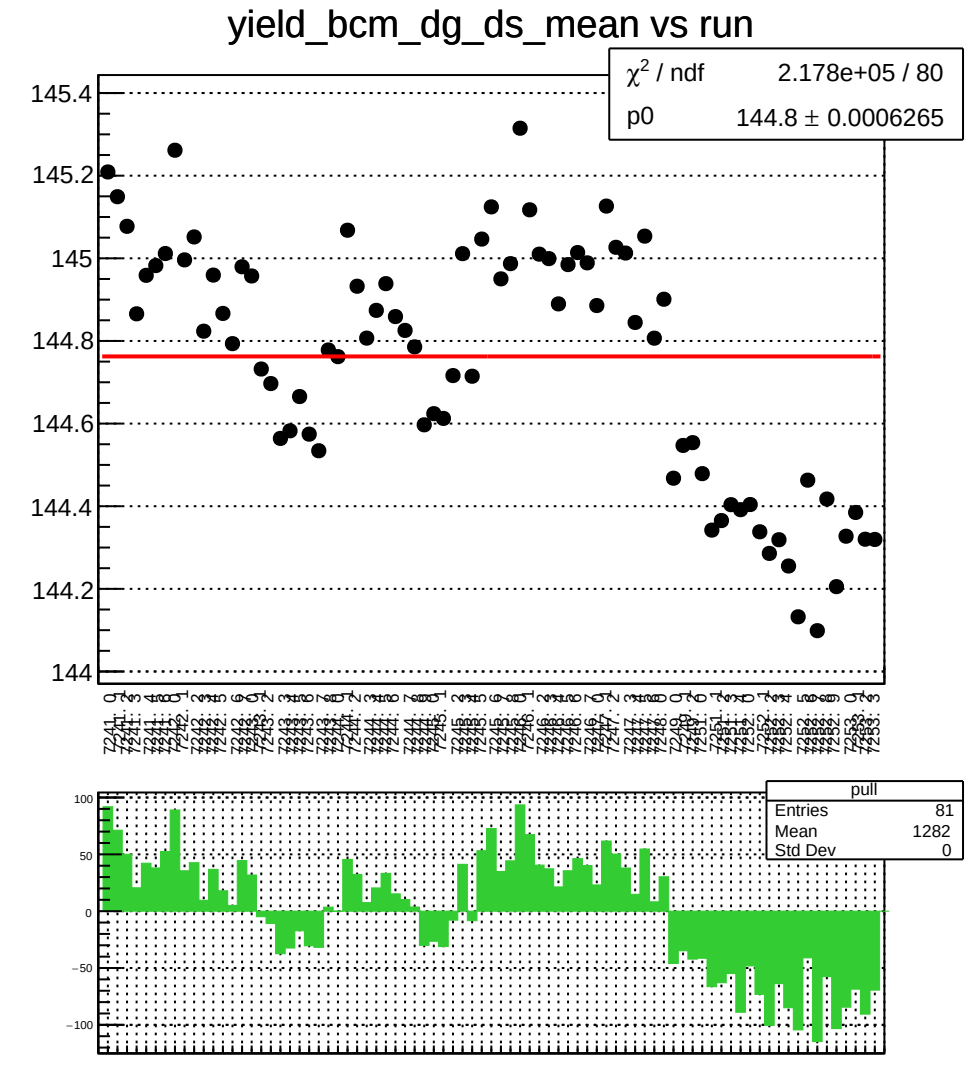

pull1D
Entries 81
Mean 0.4487
Std Dev 4.77
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

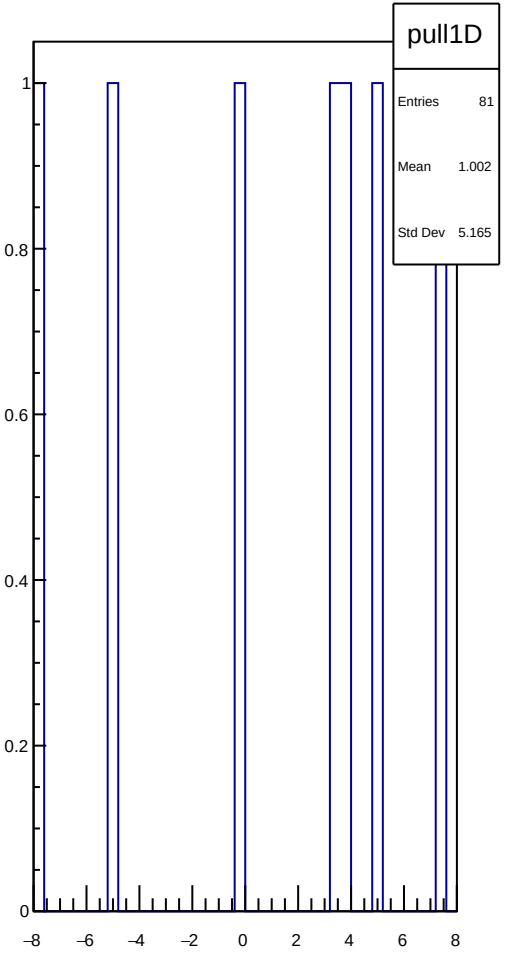

yield_bcm_an_us_rms vs run
χ² / ndf 1.722e+04 / 80
p0 0.5539 ± 0.0004475
0.7
0.65
0.6
0.55
0.5
0.45

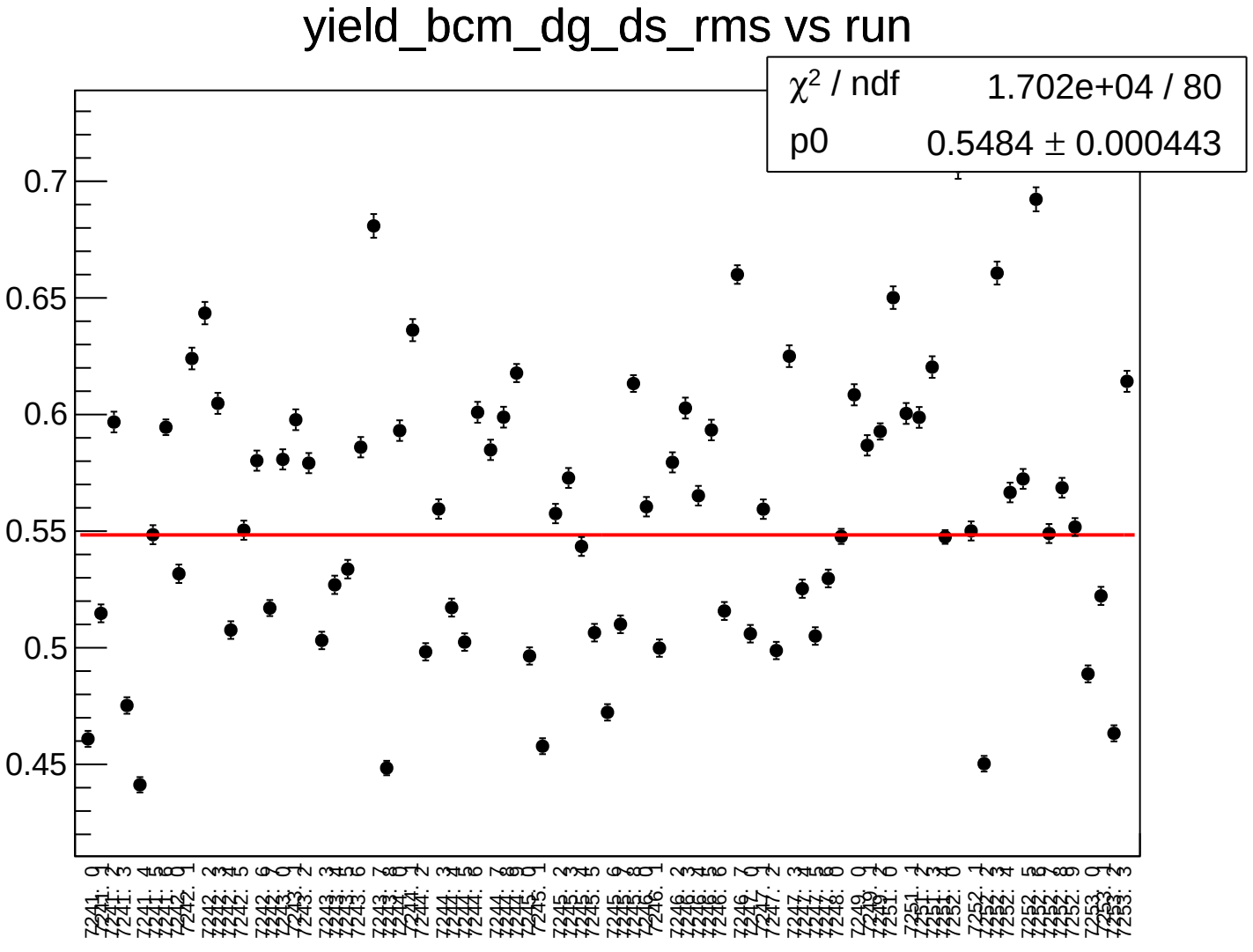

yield_bcm_dg_us_mean vs run
χ² / ndf 2.241e+05 / 80
p0 146.1± 0.0006309
146.6
146.4
146.2
146
145.8
145.6
145.4
pull
Entries 81
Mean 1523
Std Dev 0
100
50
0
−50
−100

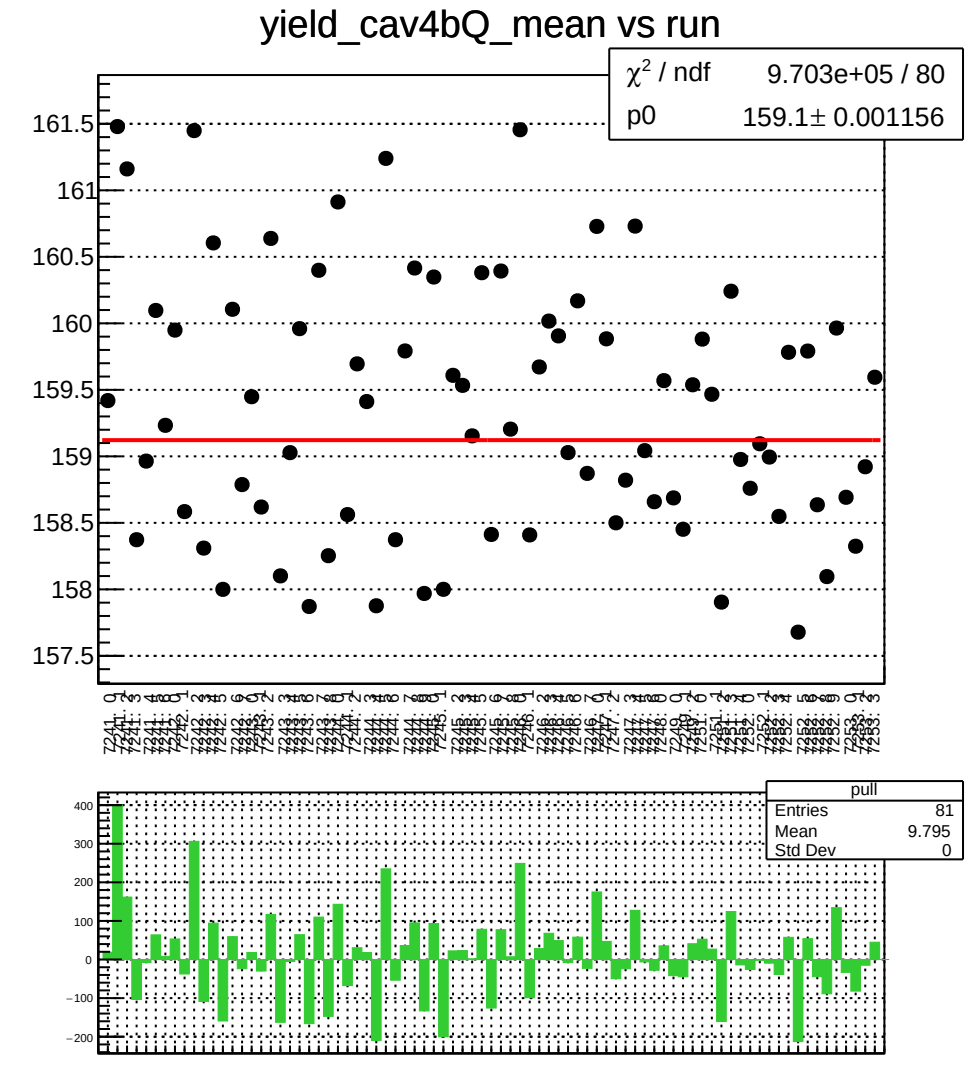

pull1D
Entries 81
Mean 1.873
Std Dev 3.798
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

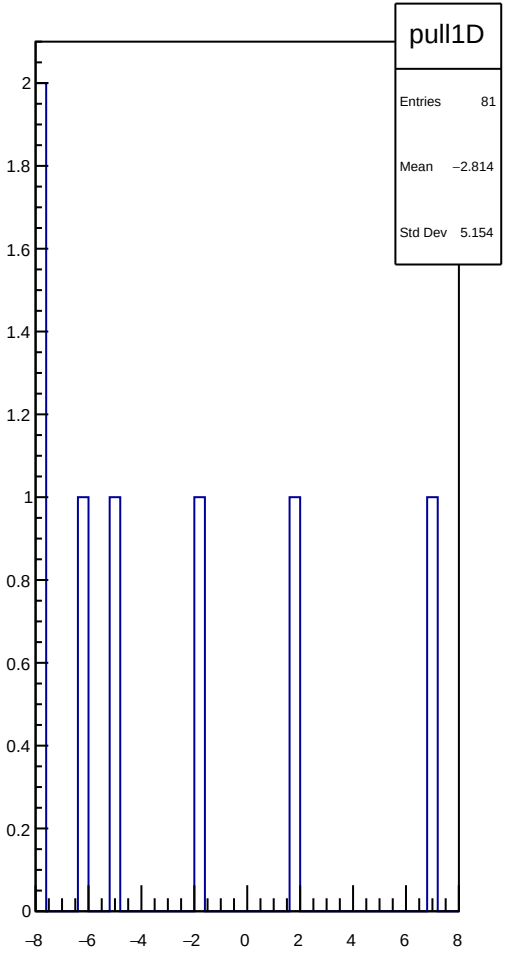

yield_bcm_dg_us_rms vs run
χ² / ndf 1.694e+04 / 80
p0 0.5522 ± 0.0004461
0.7
0.65
0.6
0.55
0.5
0.45

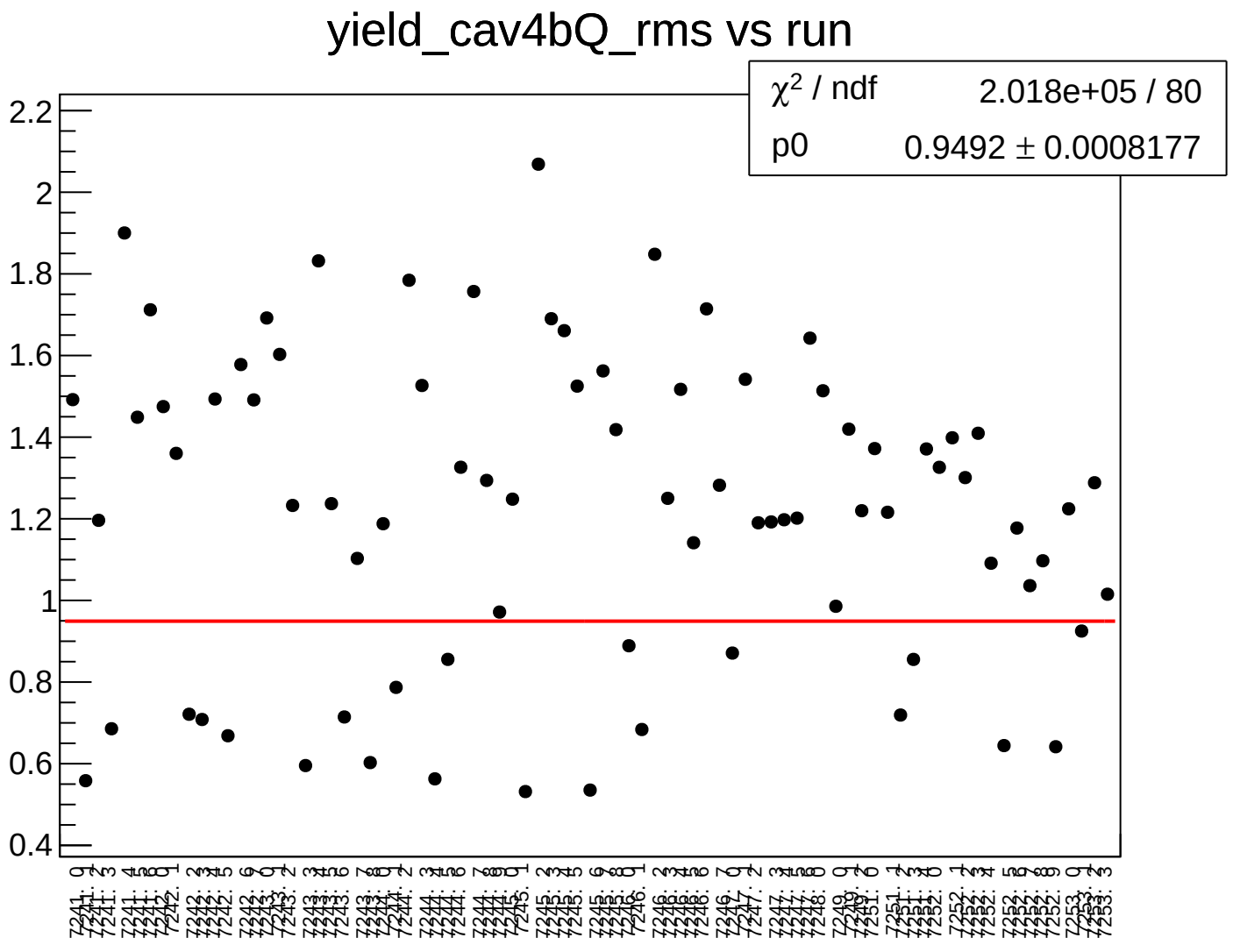

yield_bcm_dg_ds_mean vs run
χ² / ndf 2.178e+05 / 80
p0 144.8 ± 0.0006265
145.4
145.2
145
144.8
144.6
144.4
144.2
144
pull
Entries 81
Mean 1282
Std Dev 0
100
50
0
−50
−100

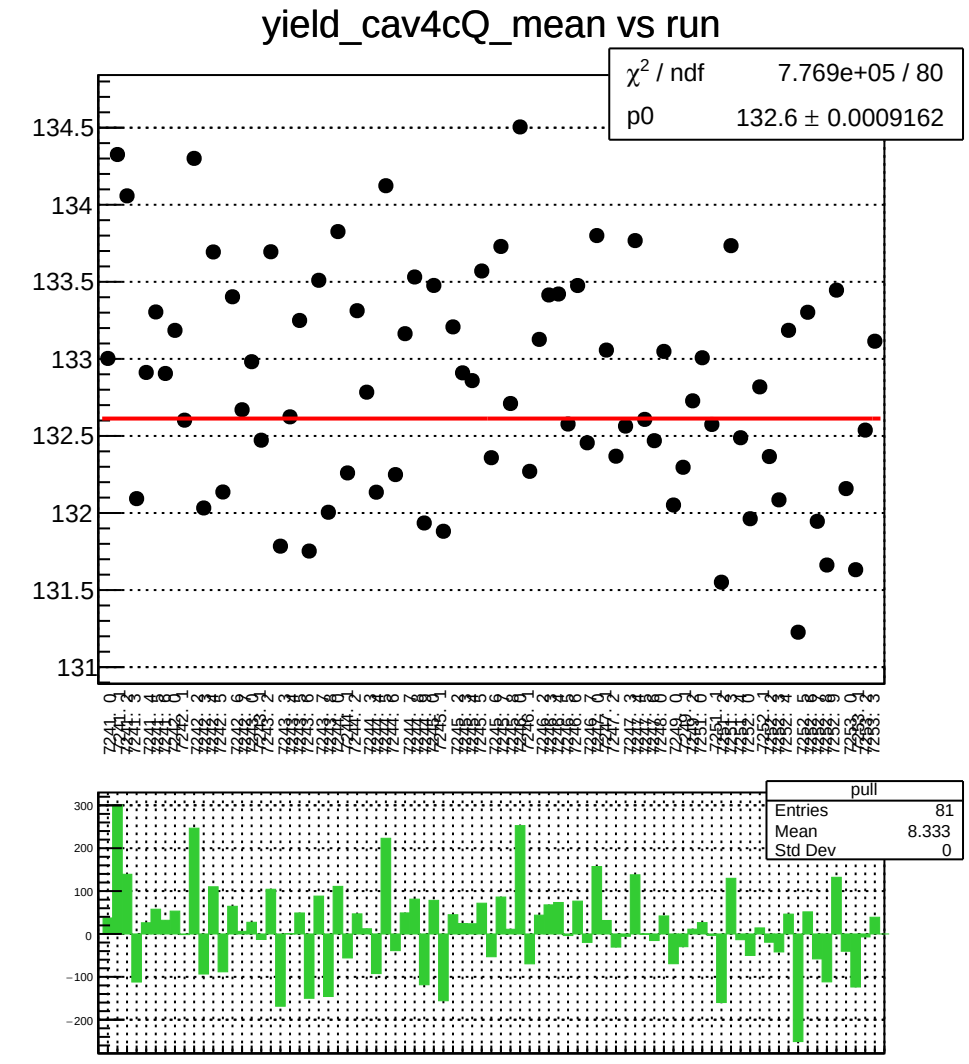

pull1D
Entries 81
Mean 1.002
Std Dev 5.165
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

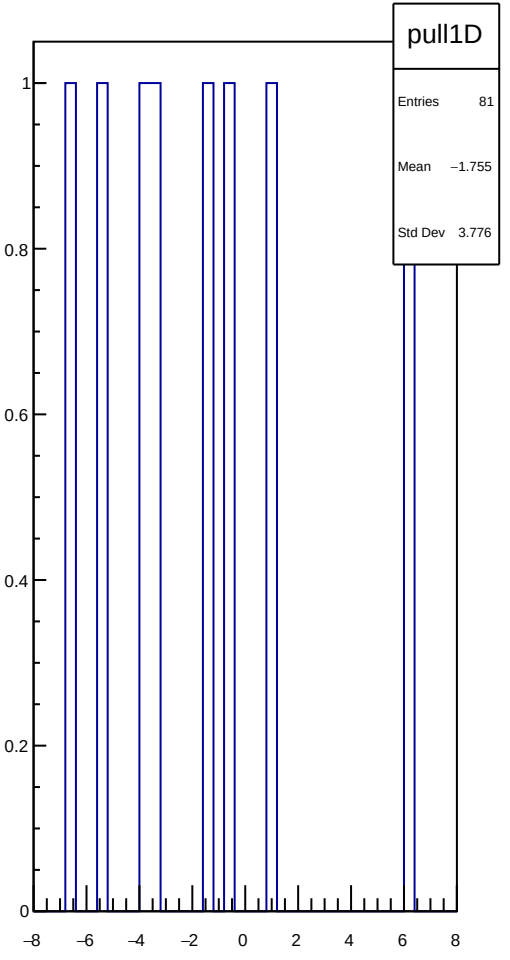

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.702e+04 / 80
p0 0.5484 ± 0.000443
0.7
0.65
0.6
0.55
0.5
0.45

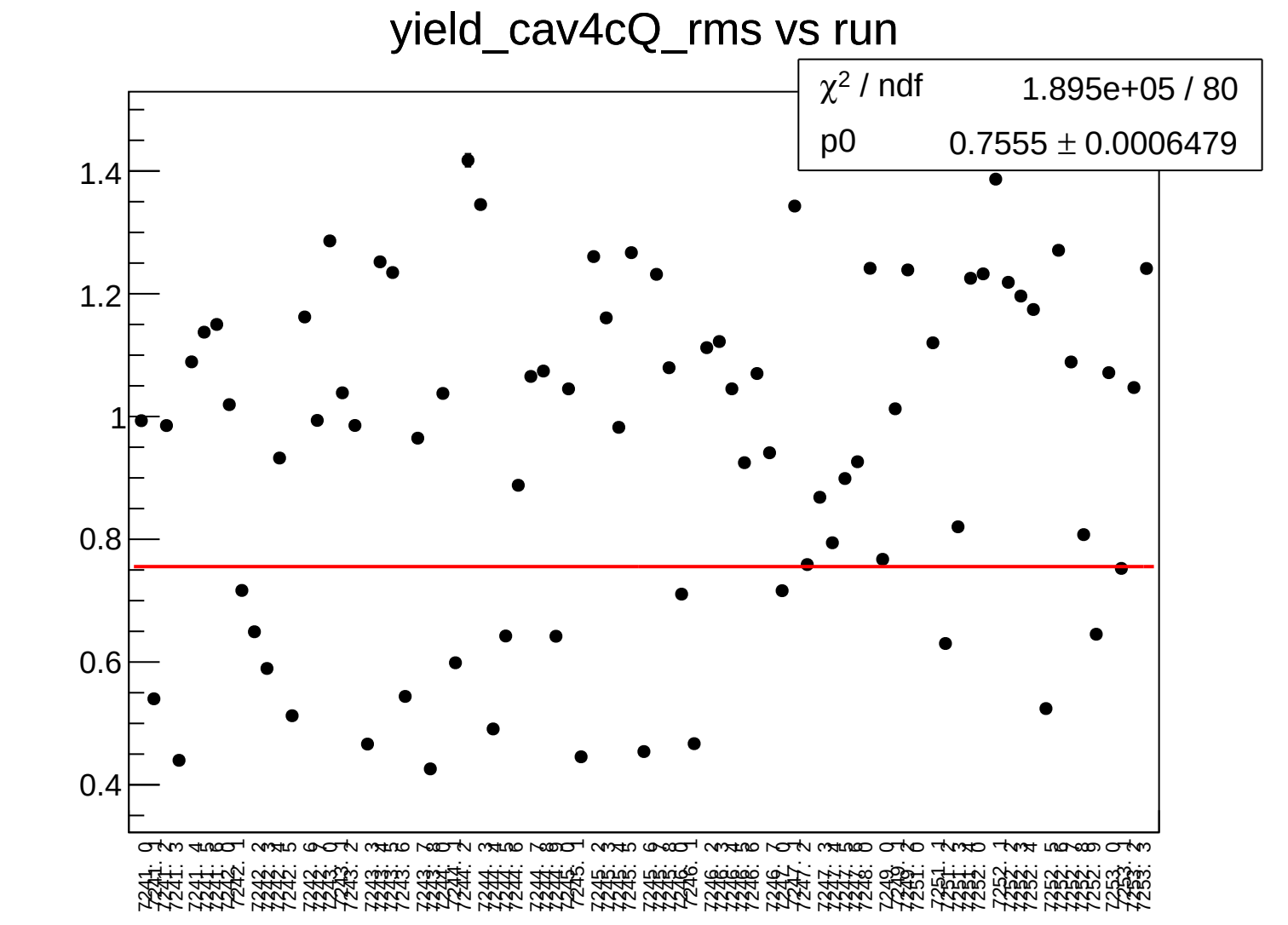

yield_cav4bQ_mean vs run
χ² / ndf 9.703e+05 / 80
p0 159.1± 0.001156
161.5
161
160.5
160
159.5
159
158.5
158
157.5
pull
Entries 81
Mean 9.795
Std Dev 0
400
300
200
100
0
−100
−200

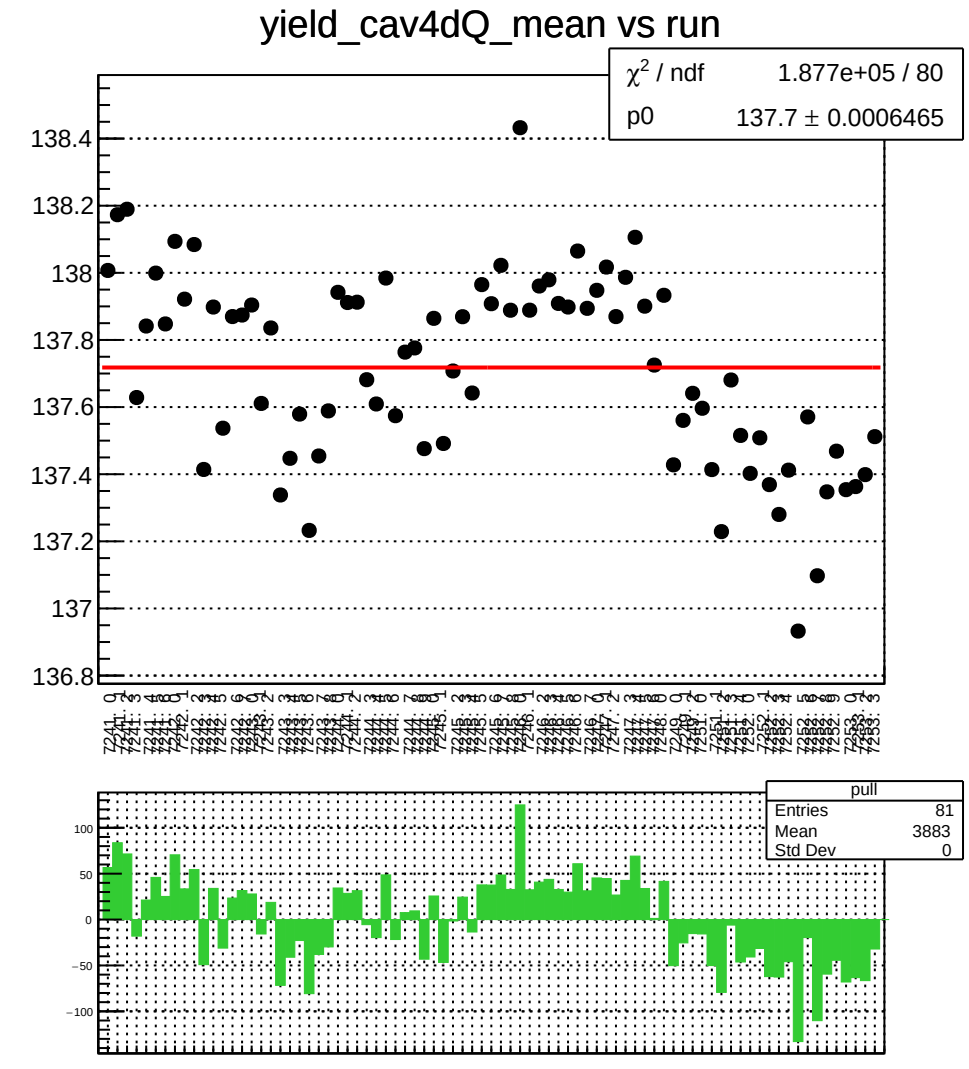

pull1D
Entries 81
Mean −2.814
Std Dev 5.154
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

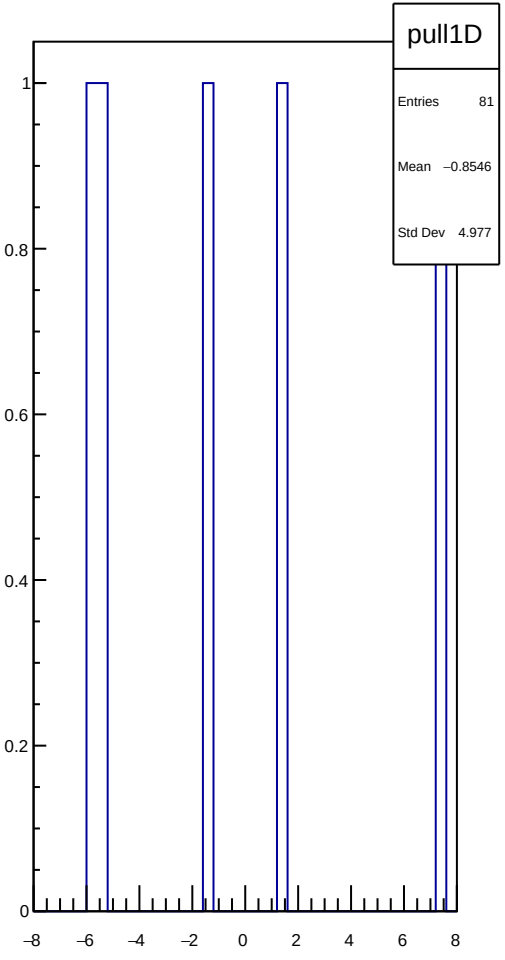

yield_cav4bQ_rms vs run
χ² / ndf 2.018e+05 / 80
p0 0.9492 ± 0.0008177
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4

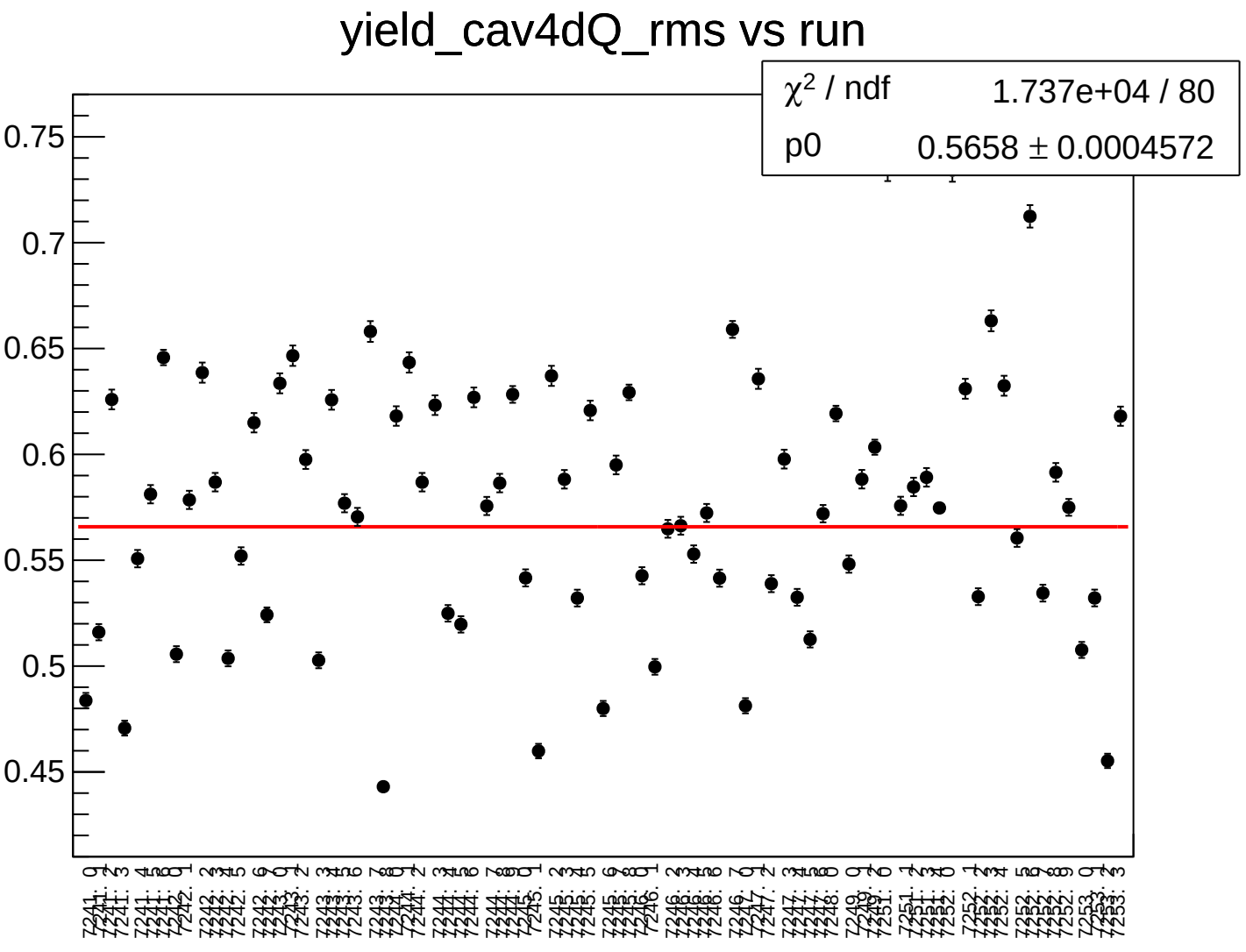

yield_cav4cQ_mean vs run
χ² / ndf 7.769e+05 / 80
p0 132.6 ± 0.0009162
134.5
134
133.5
133
132.5
132
131.5
131
pull
Entries 81
Mean 8.333
Std Dev 0
300
200
100
0
−100
−200

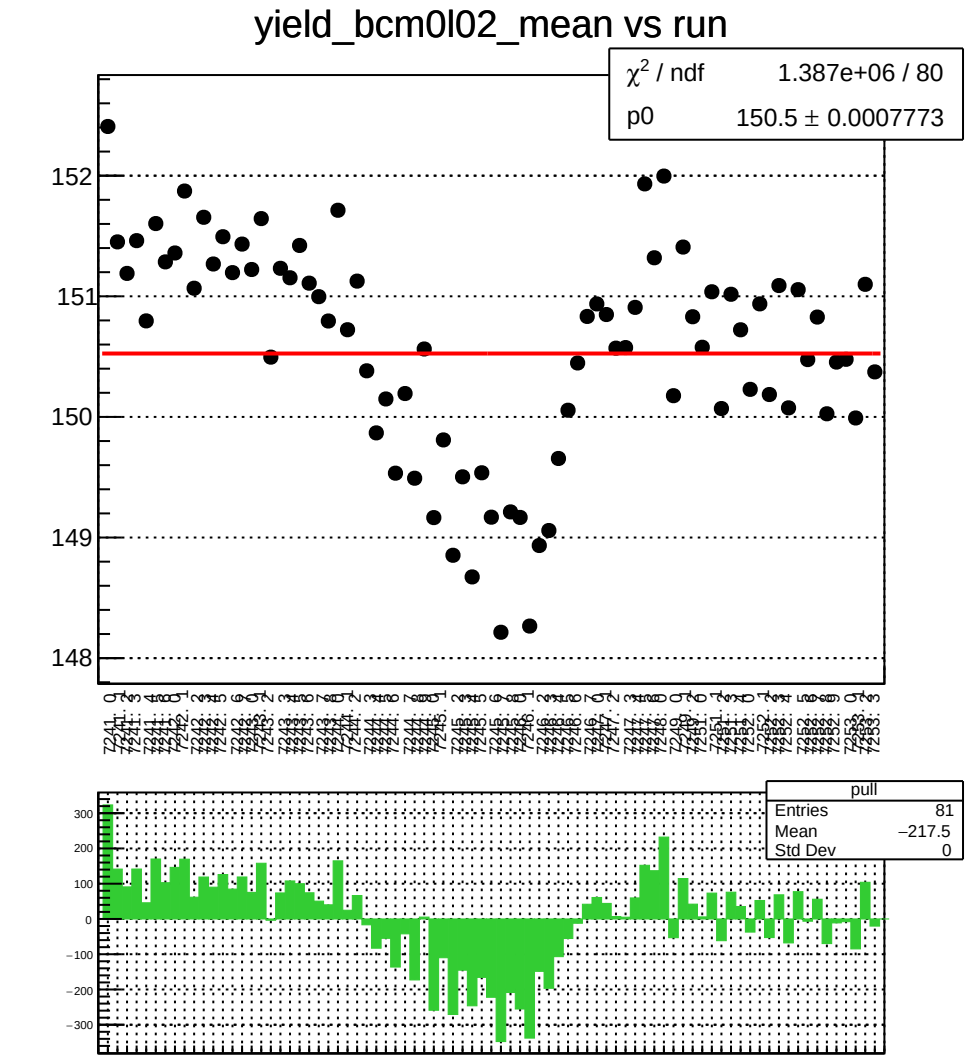

pull1D
Entries 81
Mean −1.755
Std Dev 3.776
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

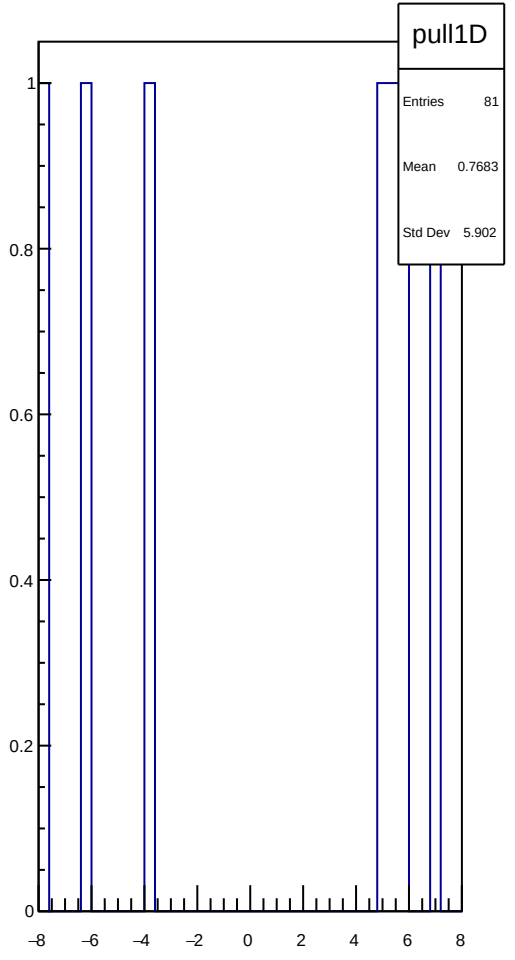

yield_cav4cQ_rms vs run
χ² / ndf 1.895e+05 / 80
p0 0.7555 ± 0.0006479
1.4
1.2
1
0.8
0.6
0.4

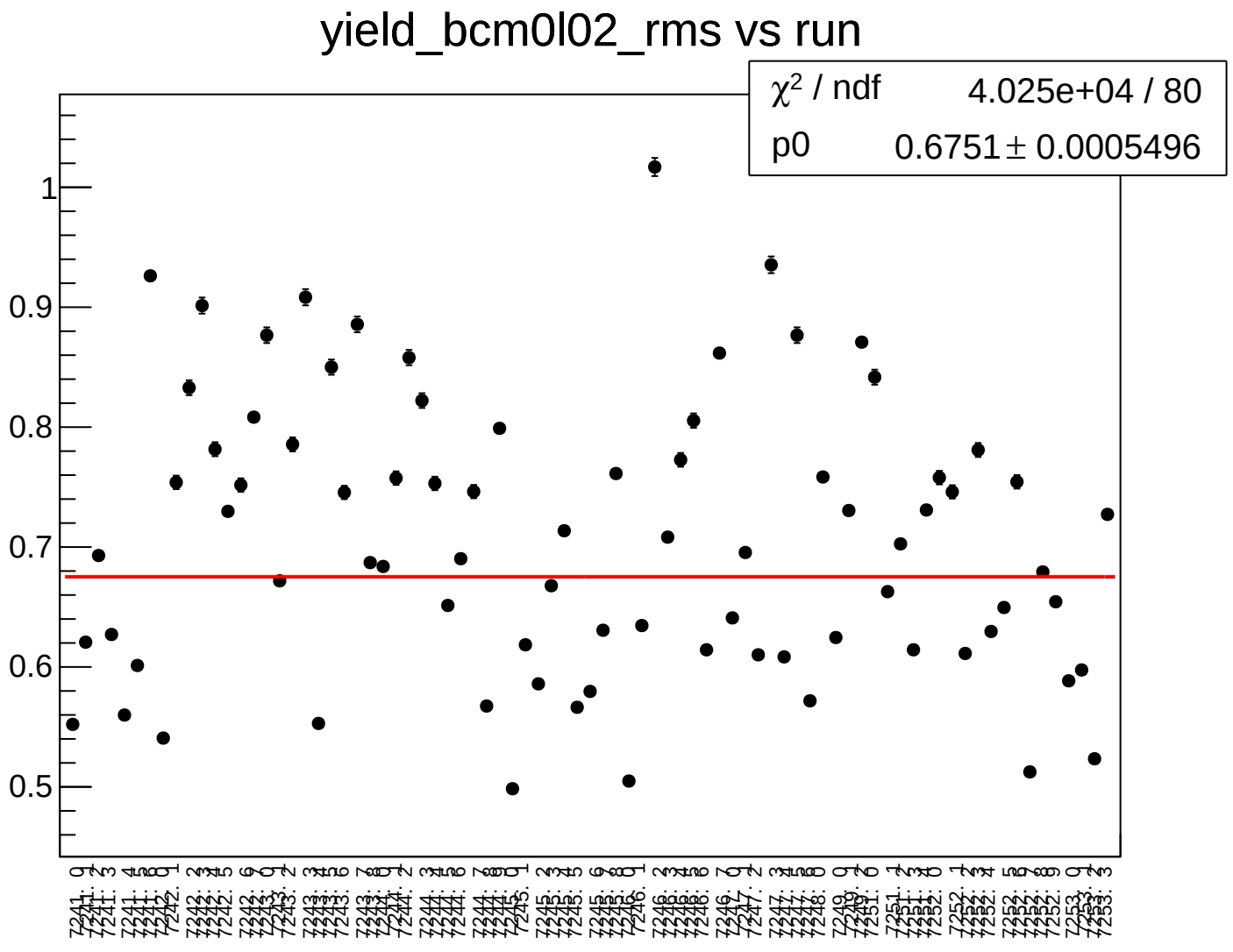

yield_cav4dQ_mean vs run
χ² / ndf 1.877e+05 / 80
p0 137.7 ± 0.0006465
138.4
138.2
138
137.8
137.6
137.4
137.2
137
136.8
pull
Entries 81
Mean 3883
Std Dev 0
100
50
0
−50
−100

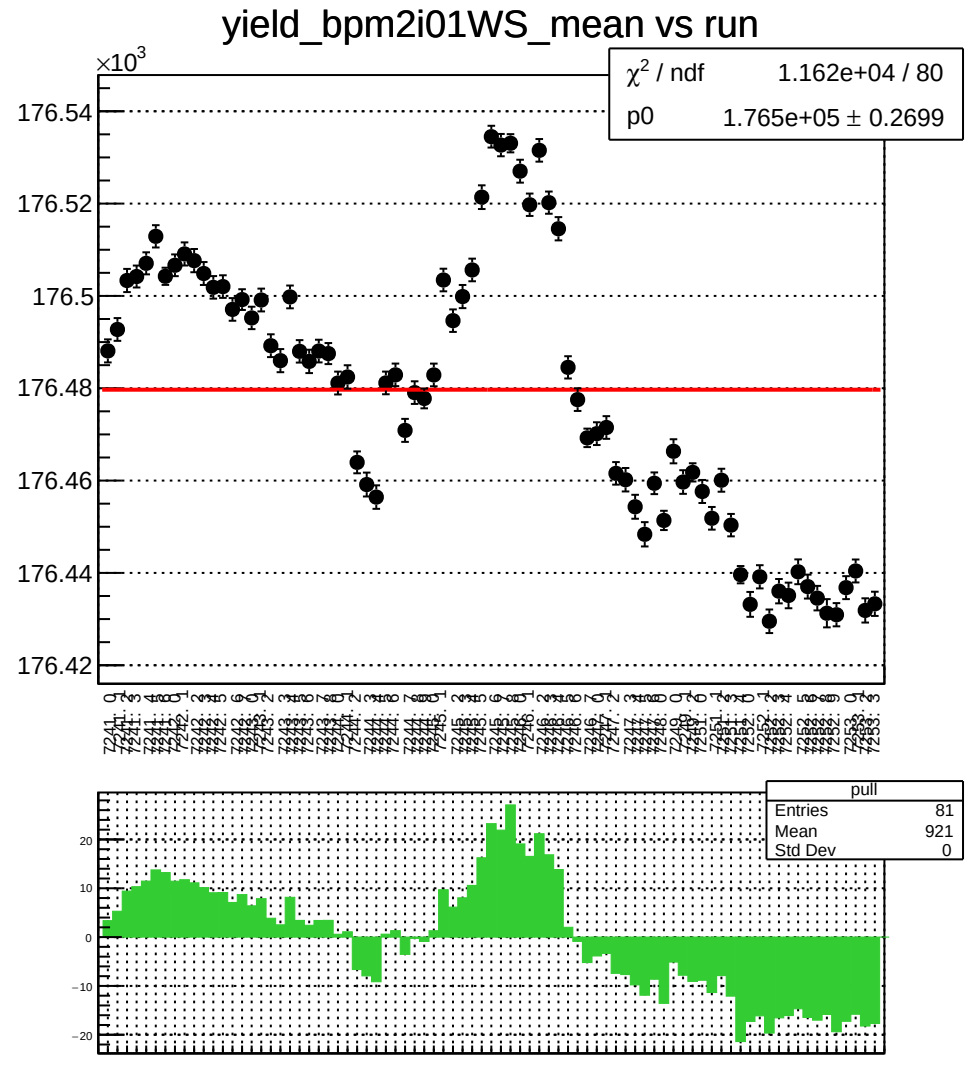

pull1D
Entries 81
Mean −0.8546
Std Dev 4.977
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

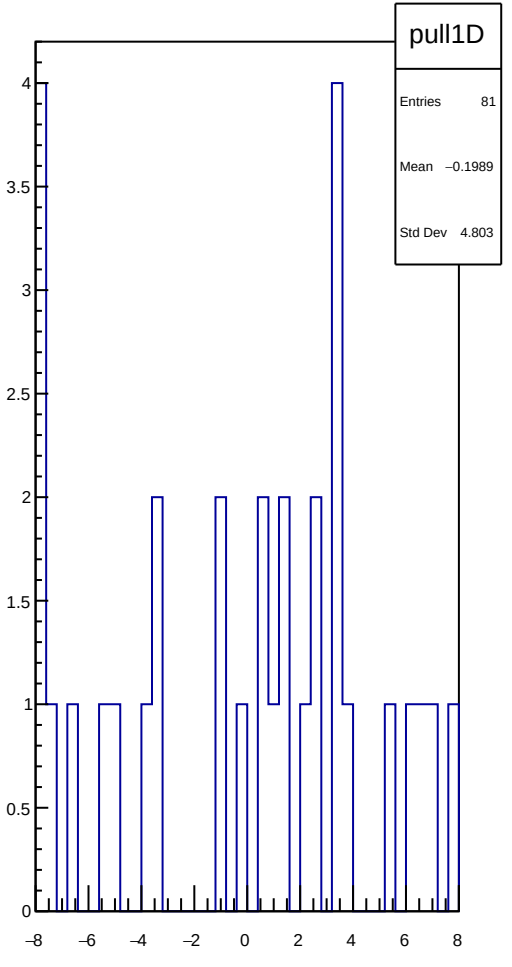

yield_cav4dQ_rms vs run
χ² / ndf 1.737e+04 / 80
p0 0.5658 ± 0.0004572
0.75
0.7
0.65
0.6
0.55
0.5
0.45

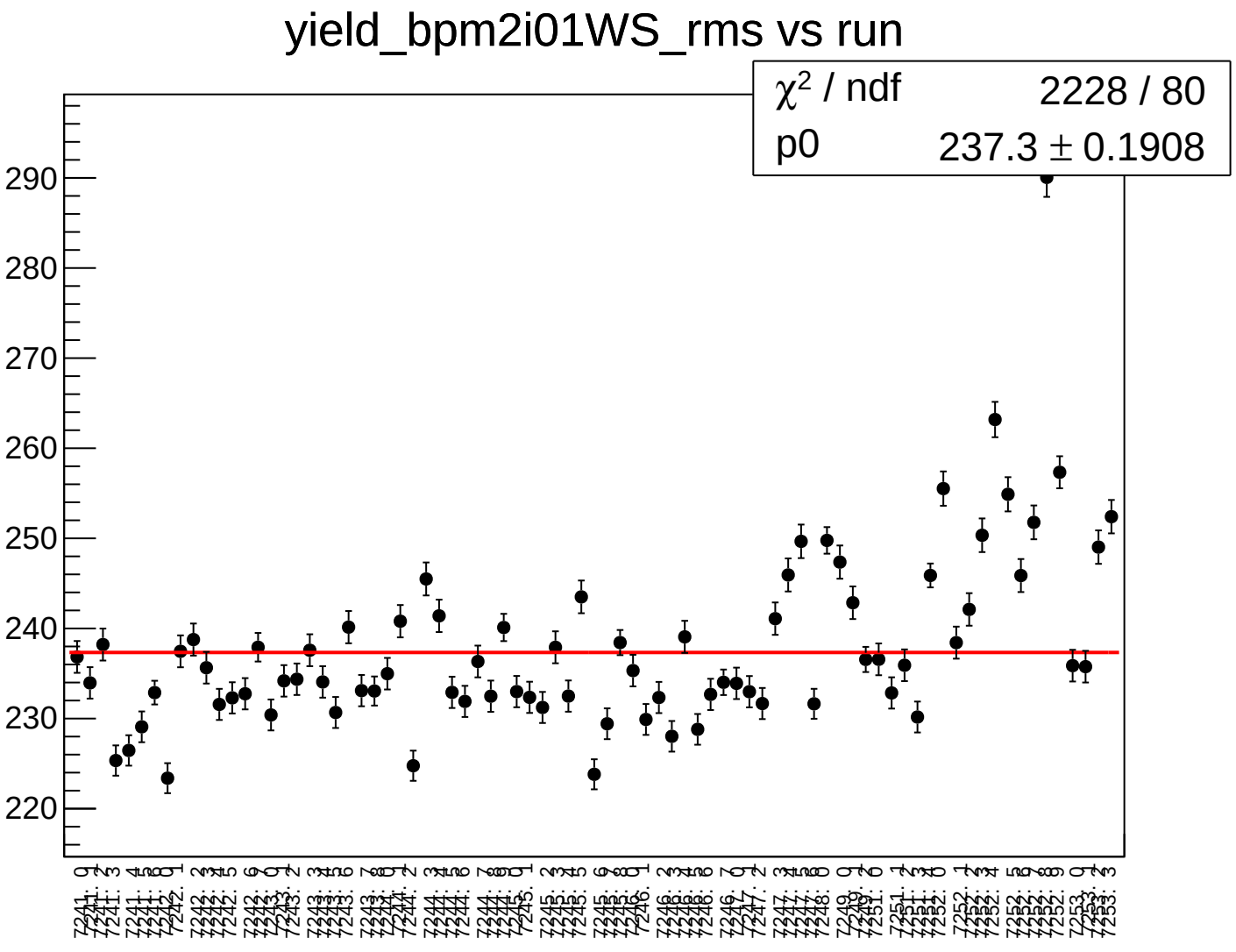

yield_bcm0l02_mean vs run
χ² / ndf 1.387e+06 / 80
p0 150.5 ± 0.0007773
152
151
150
149
148
pull
Entries 81
Mean −217.5
Std Dev 0
300
200
100
0
−100
−200
−300

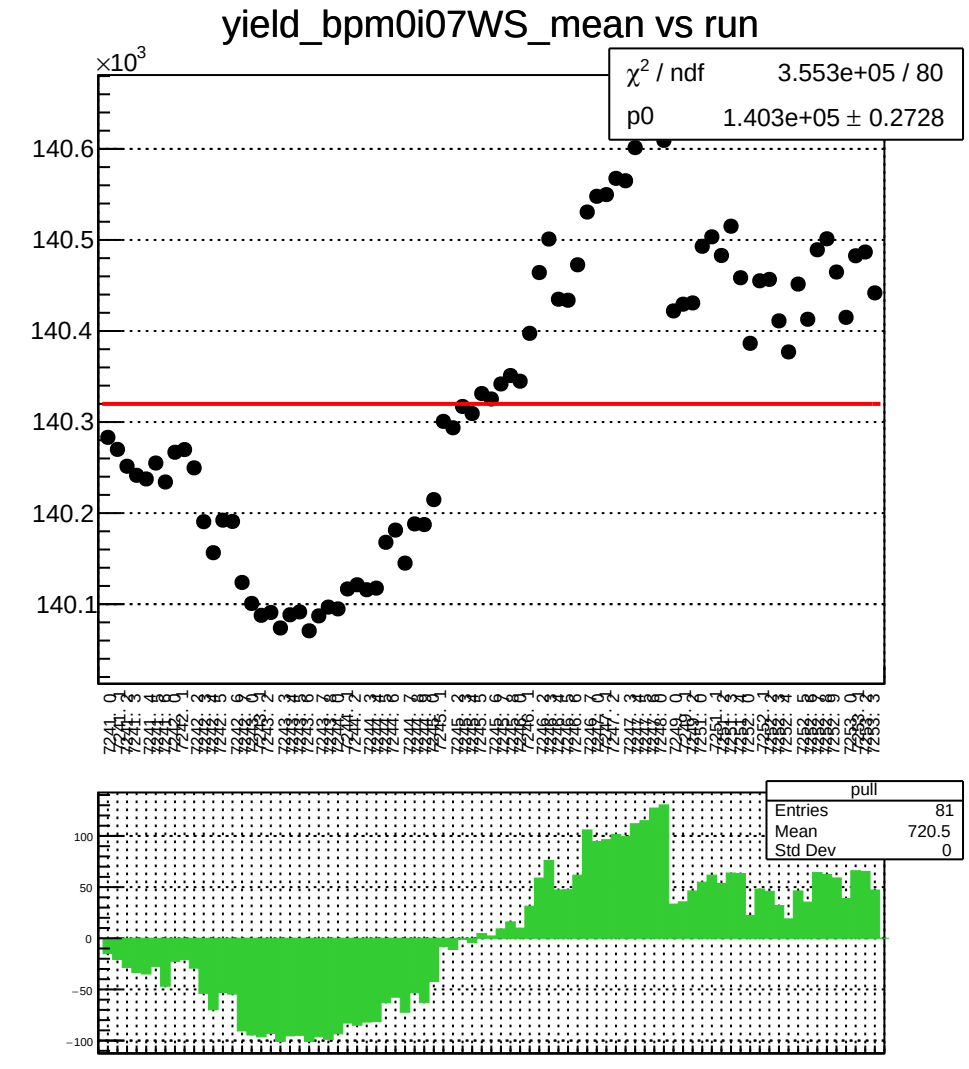

pull1D
Entries 81
Mean 0.7683
Std Dev 5.902
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

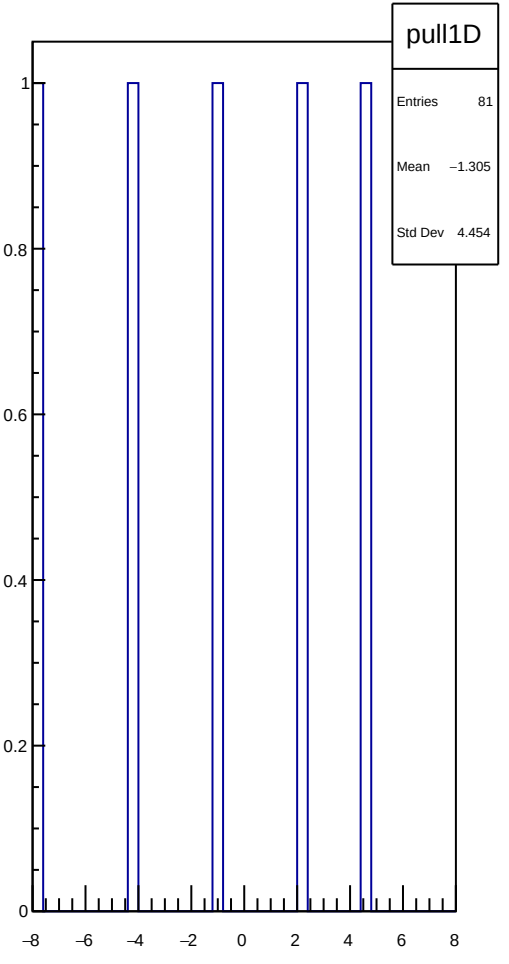

yield_bcm0l02_rms vs run
χ² / ndf 4.025e+04 / 80
p0 0.6751 ± 0.0005496
1
0.9
0.8
0.7
0.6
0.5

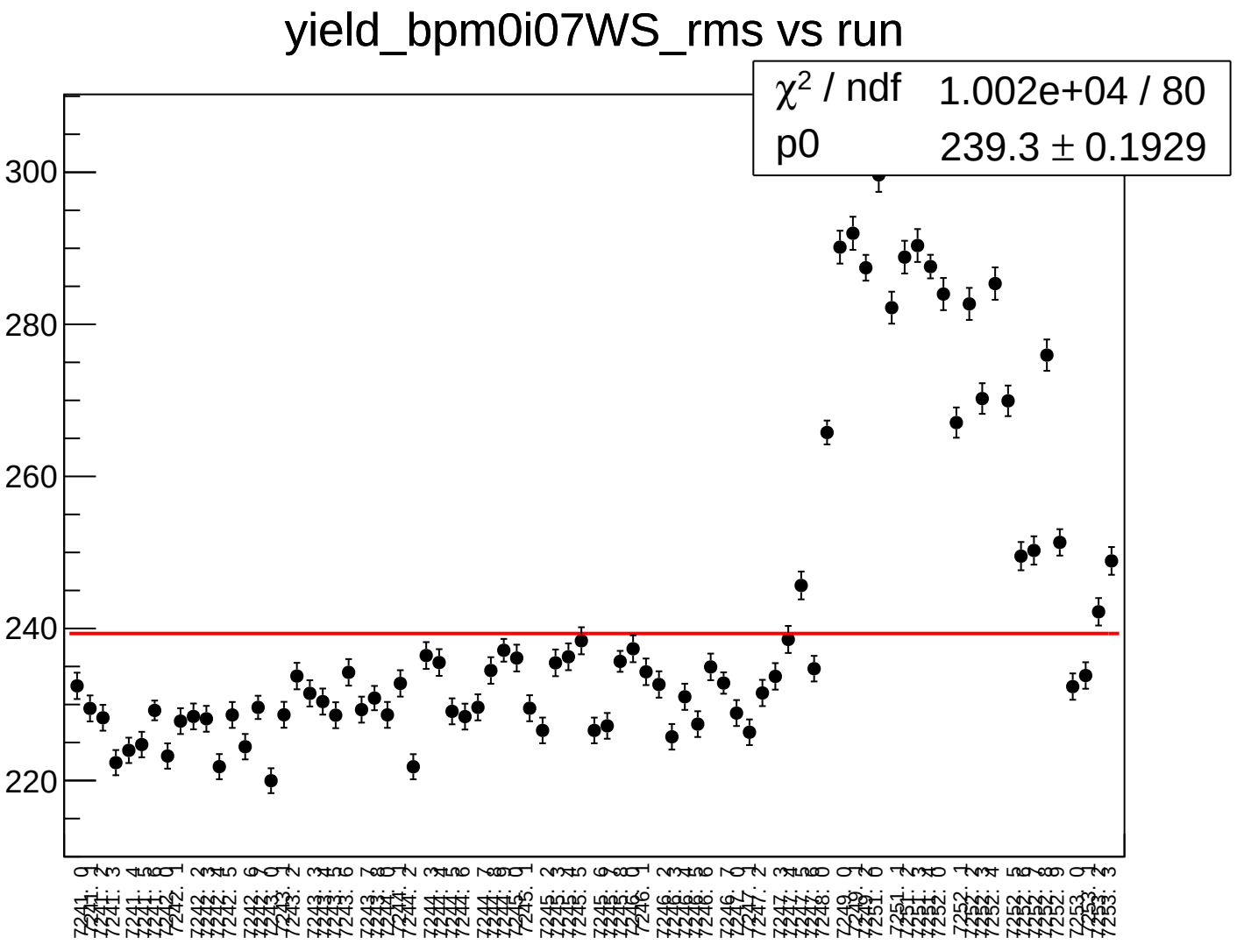

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 1.162e+04 / 80
p0 1.765e+05 ± 0.2699
176.54
176.52
176.5
176.48
176.46
176.44
176.42
pull
Entries 81
Mean 921
Std Dev 0
20
10
0
−10
−20

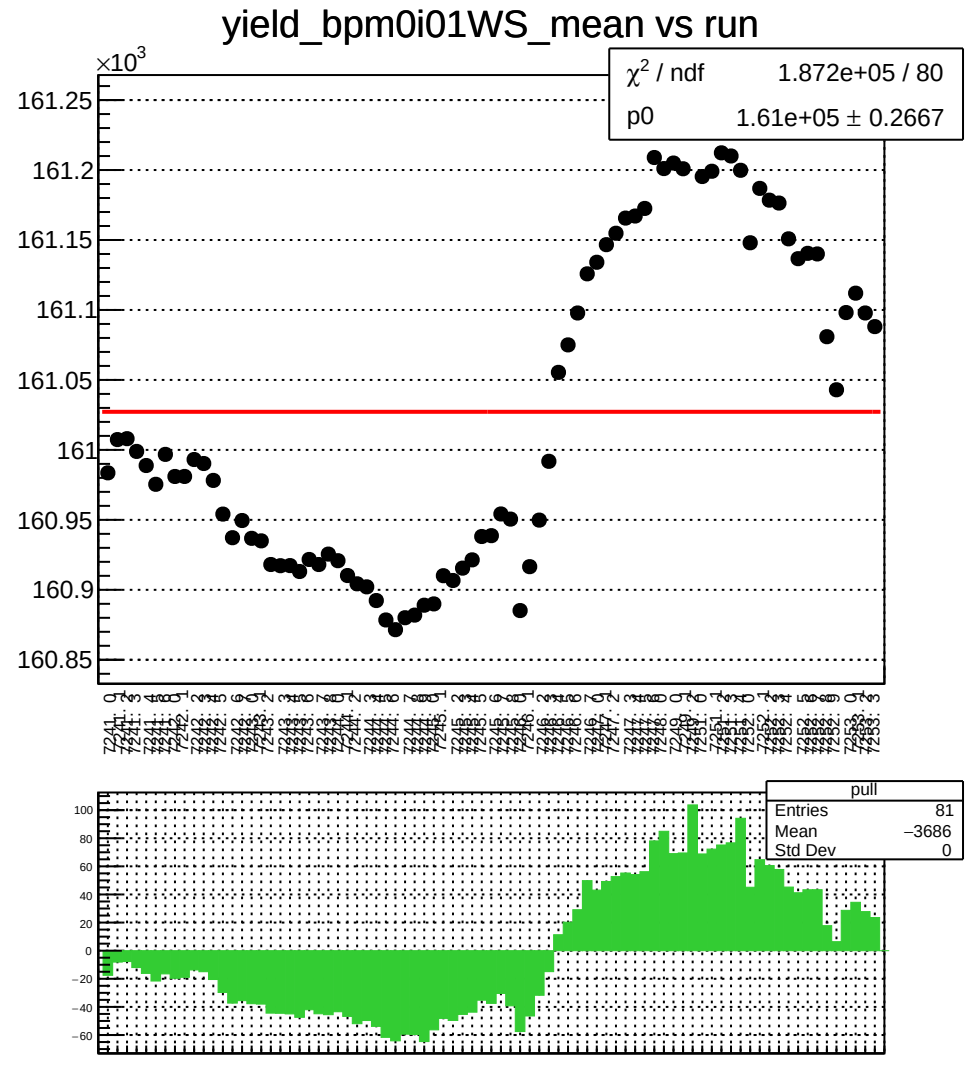

pull1D
Entries 81
Mean −0.1989
Std Dev 4.803
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

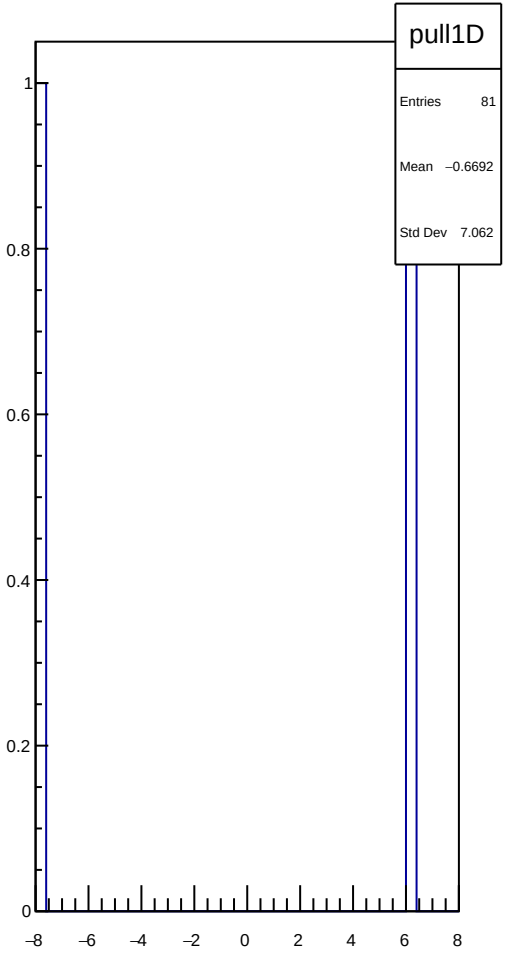

yield_bpm2i01WS_rms vs run
χ² / ndf 2228 / 80
p0 237.3 ± 0.1908
290
280
270
260
250
240
230
220

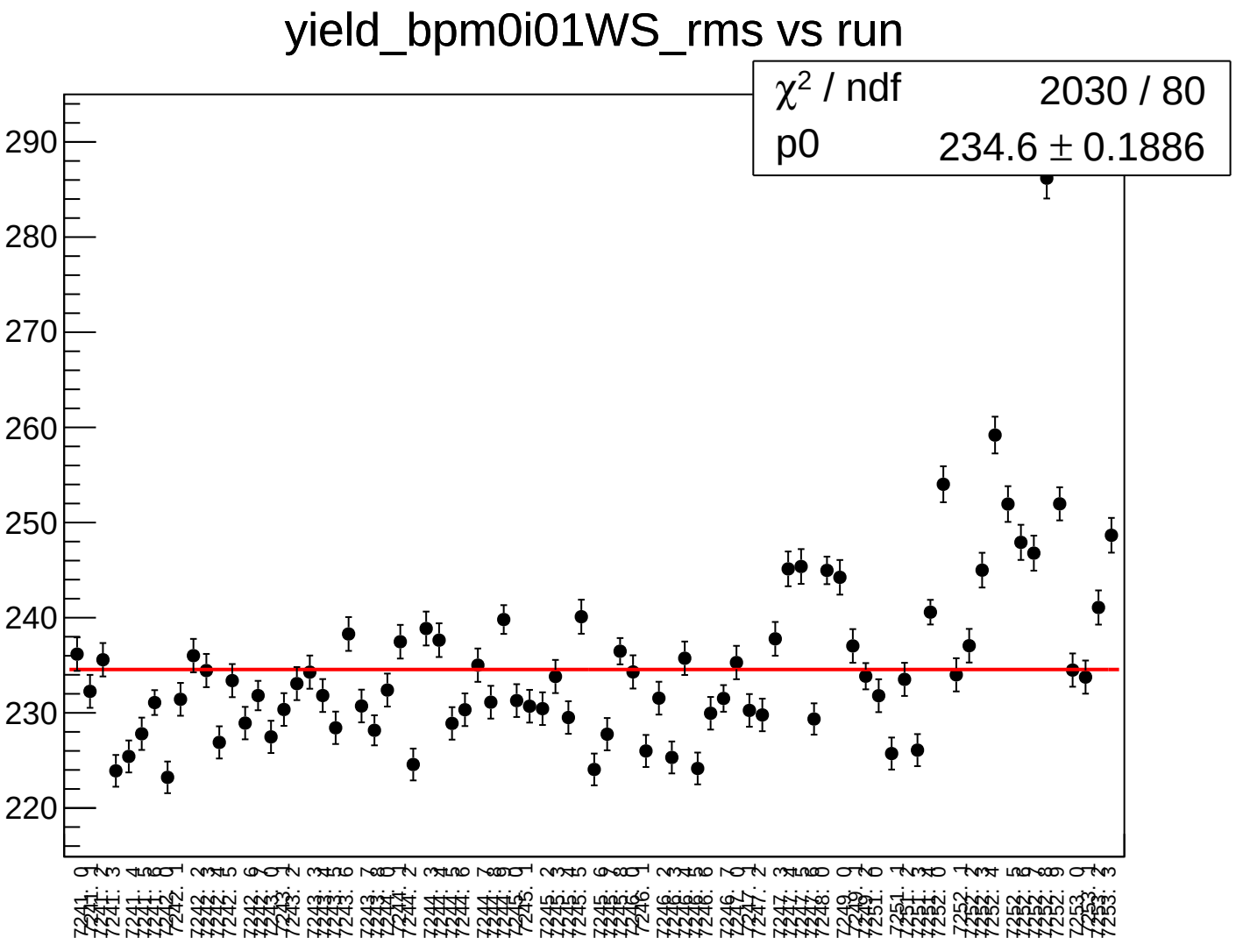

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 3.553e+05 / 80
p0 1.403e+05 ± 0.2728
140.6
140.5
140.4
140.3
140.2
140.1
pull
Entries 81
Mean 720.5
Std Dev 0
100
50
0
−50
−100

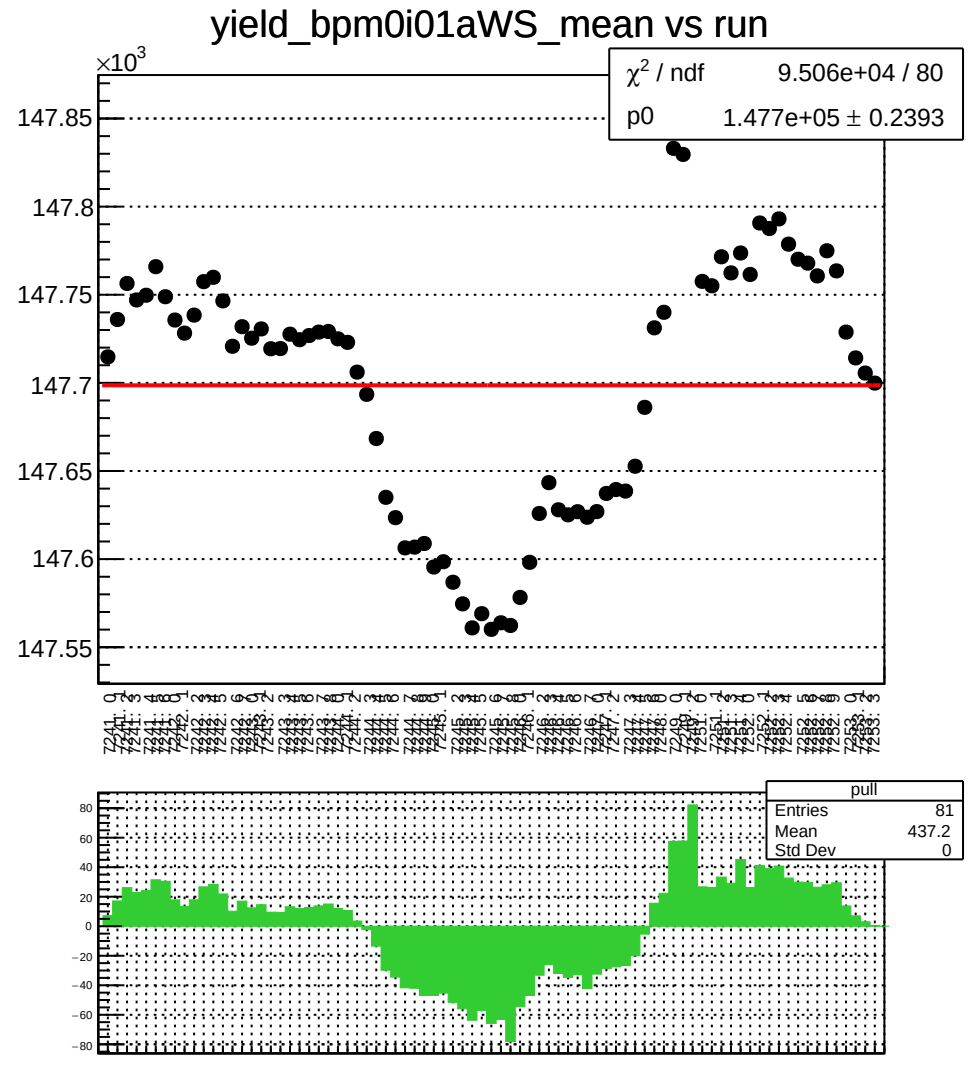

pull1D
Entries 81
Mean −1.305
Std Dev 4.454
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

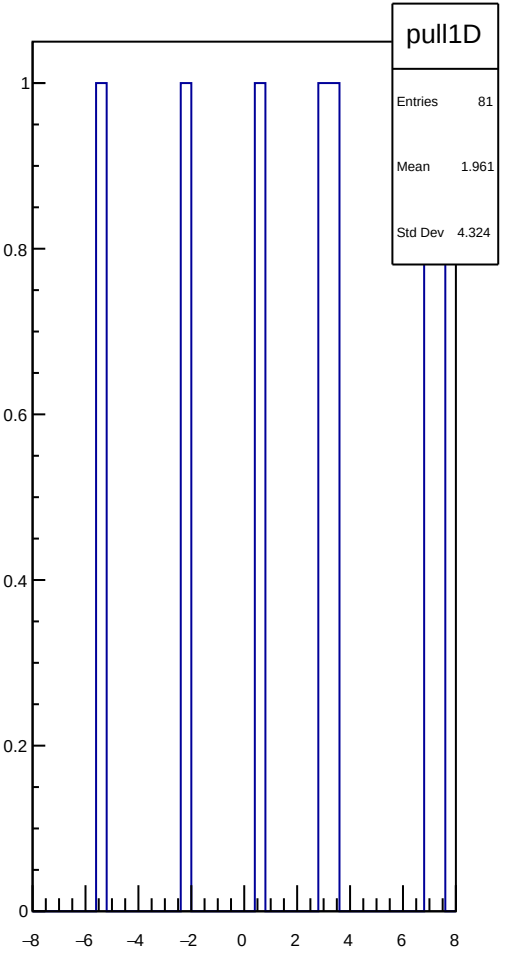

yield_bpm0i07WS_rms vs run
χ² / ndf 1.002e+04 / 80
p0 239.3 ± 0.1929
300
280
260
240
220

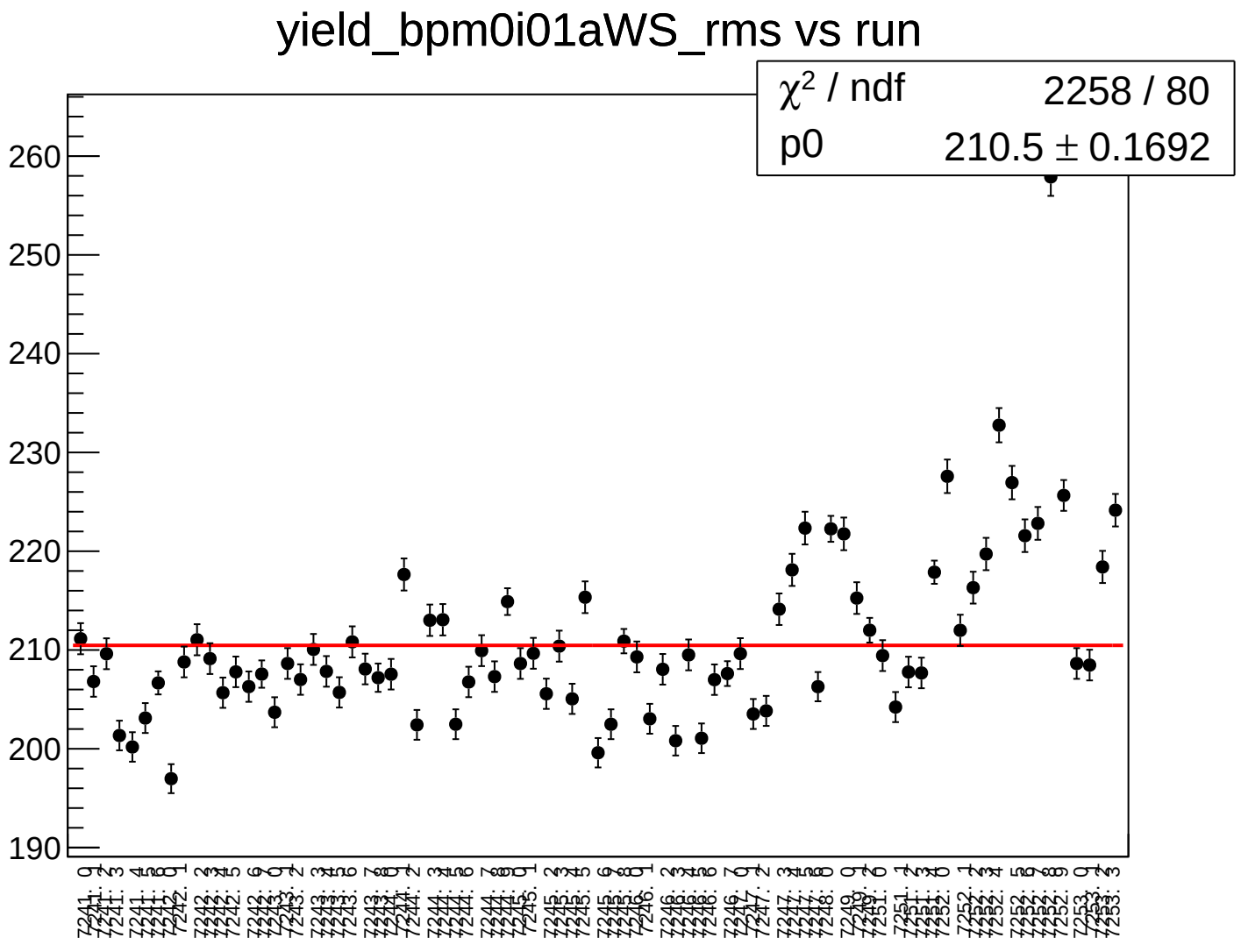

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 1.872e+05 / 80
p0 1.61e+05 ± 0.2667
161.25
161.2
161.15
161.1
161.05
161
160.95
160.9
160.85
pull
Entries 81
Mean −3686
Std Dev 0
100
80
60
40
20
0
−20
−40
−60

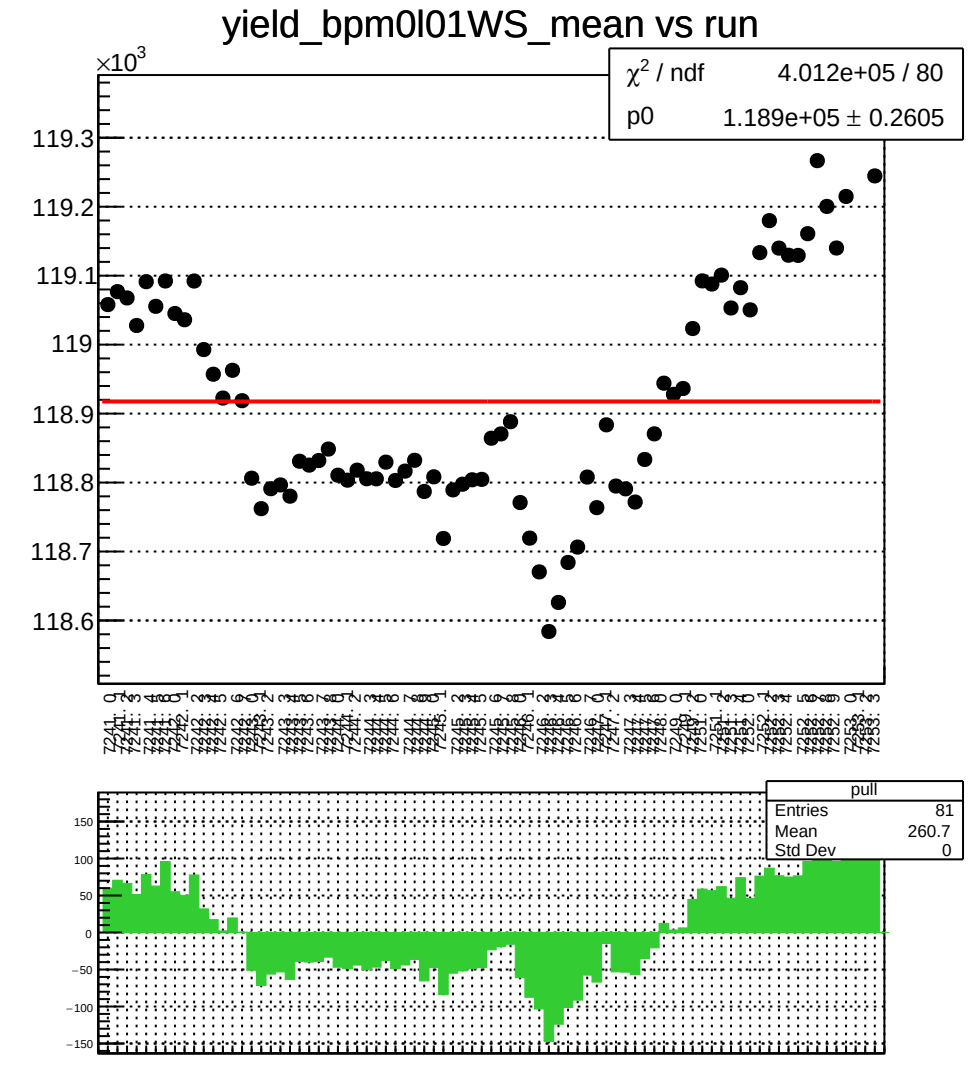

pull1D
Entries 81
Mean −0.6692
Std Dev 7.062
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

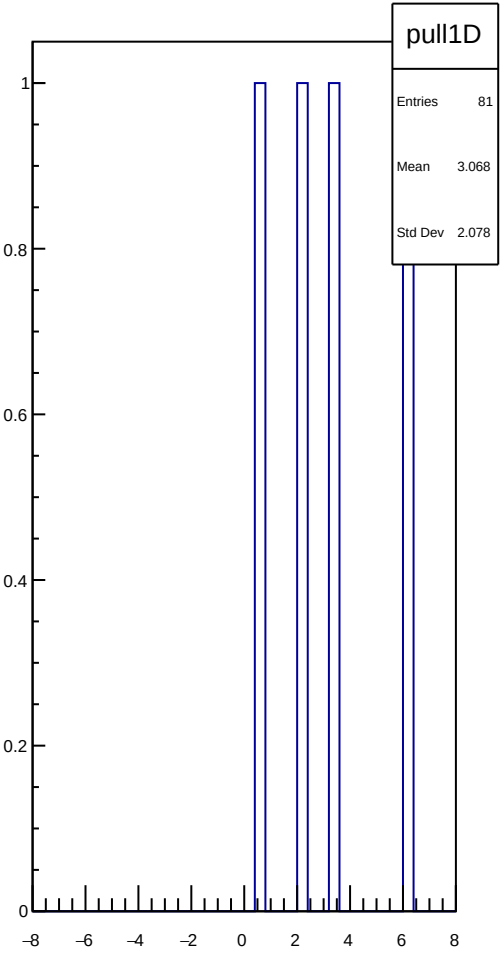

yield_bpm0i01WS_rms vs run
χ² / ndf 2030 / 80
p0 234.6 ± 0.1886
290
280
270
260
250
240
230
220

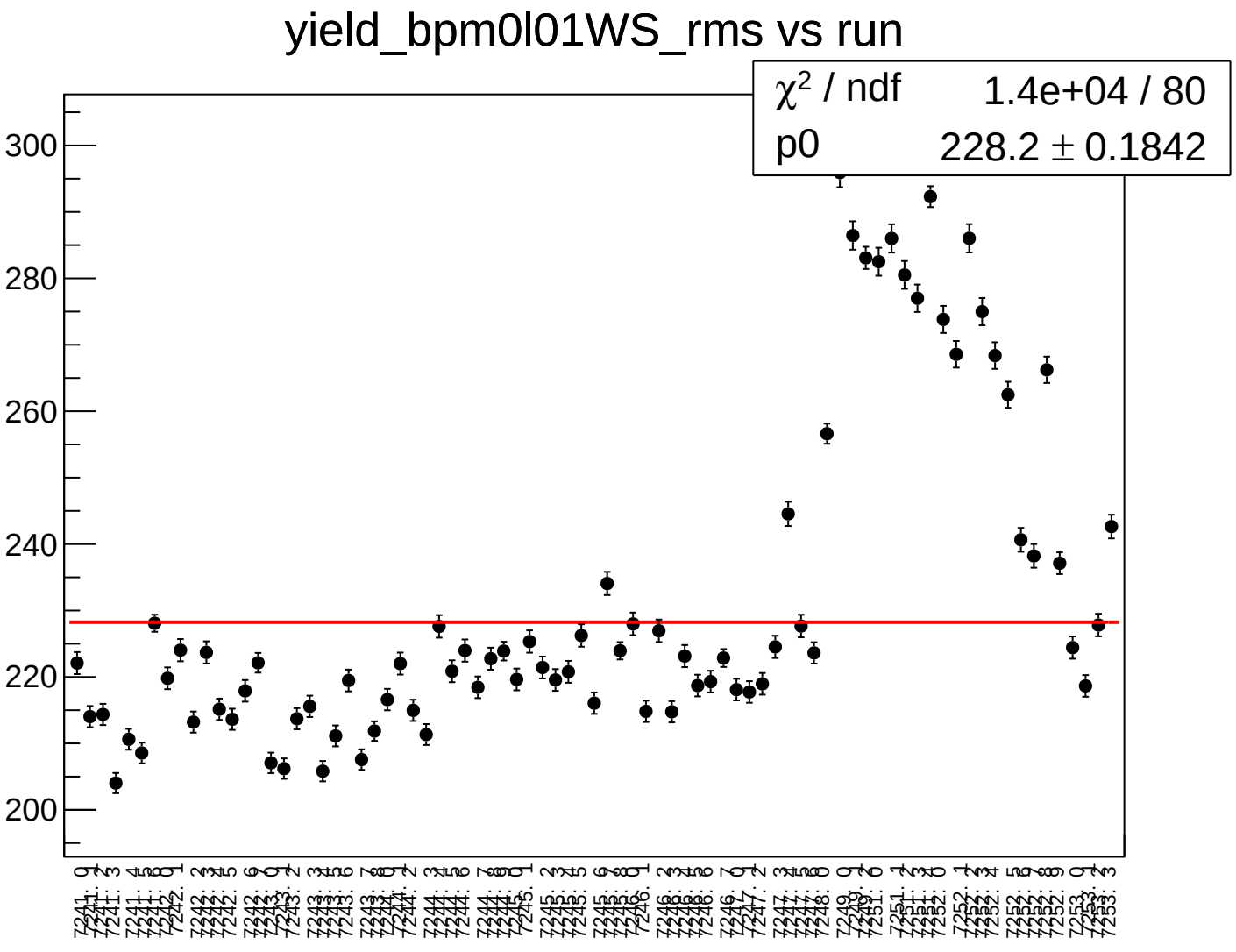

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 9.506e+04 / 80
p0 1.477e+05 ± 0.2393
147.85
147.8
147.75
147.7
147.65
147.6
147.55
pull
Entries 81
Mean 437.2
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

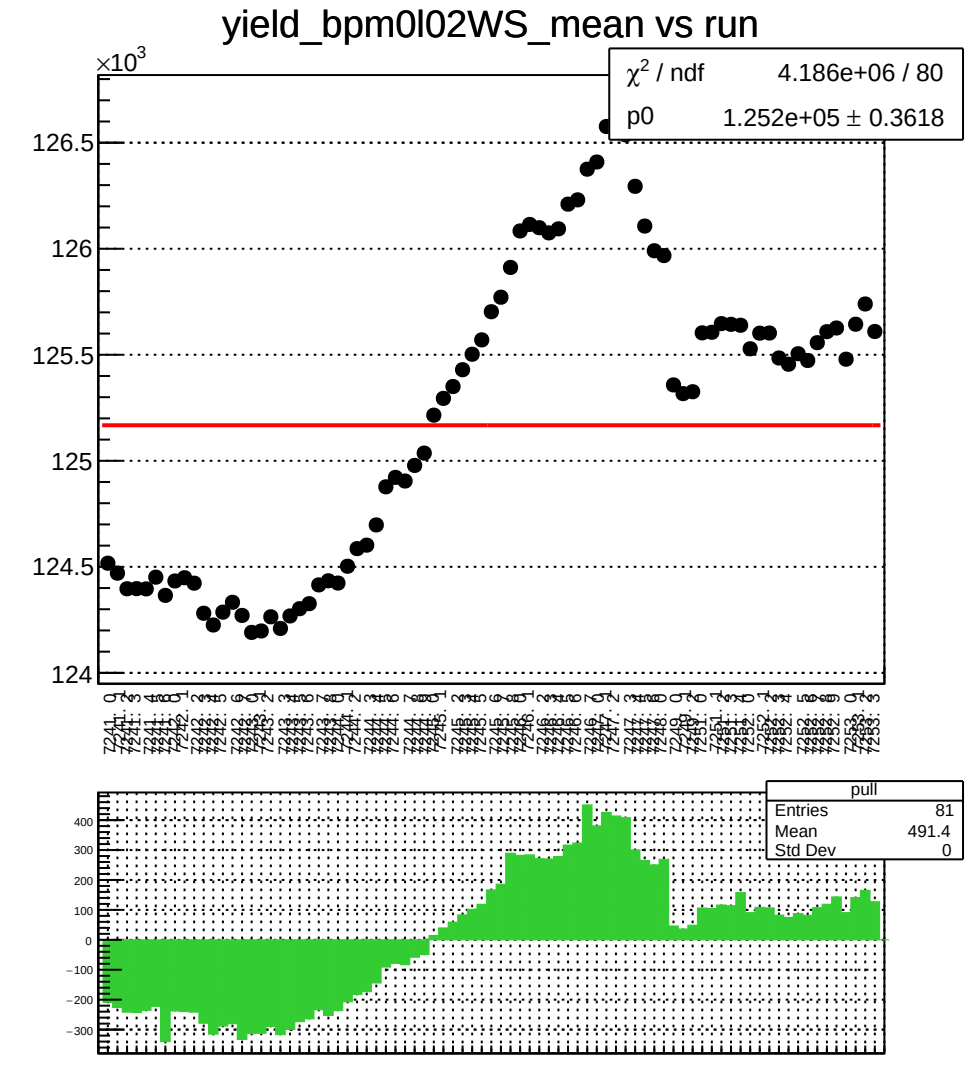

pull1D
Entries 81
Mean 1.961
Std Dev 4.324
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

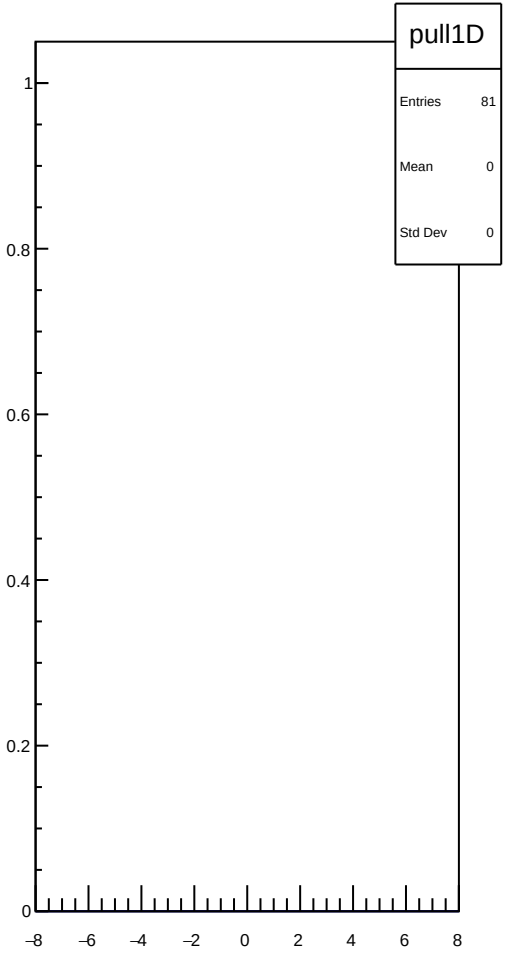

yield_bpm0i01aWS_rms vs run
χ² / ndf 2258 / 80
p0 210.5 ± 0.1692
260
250
240
230
220
210
200
190

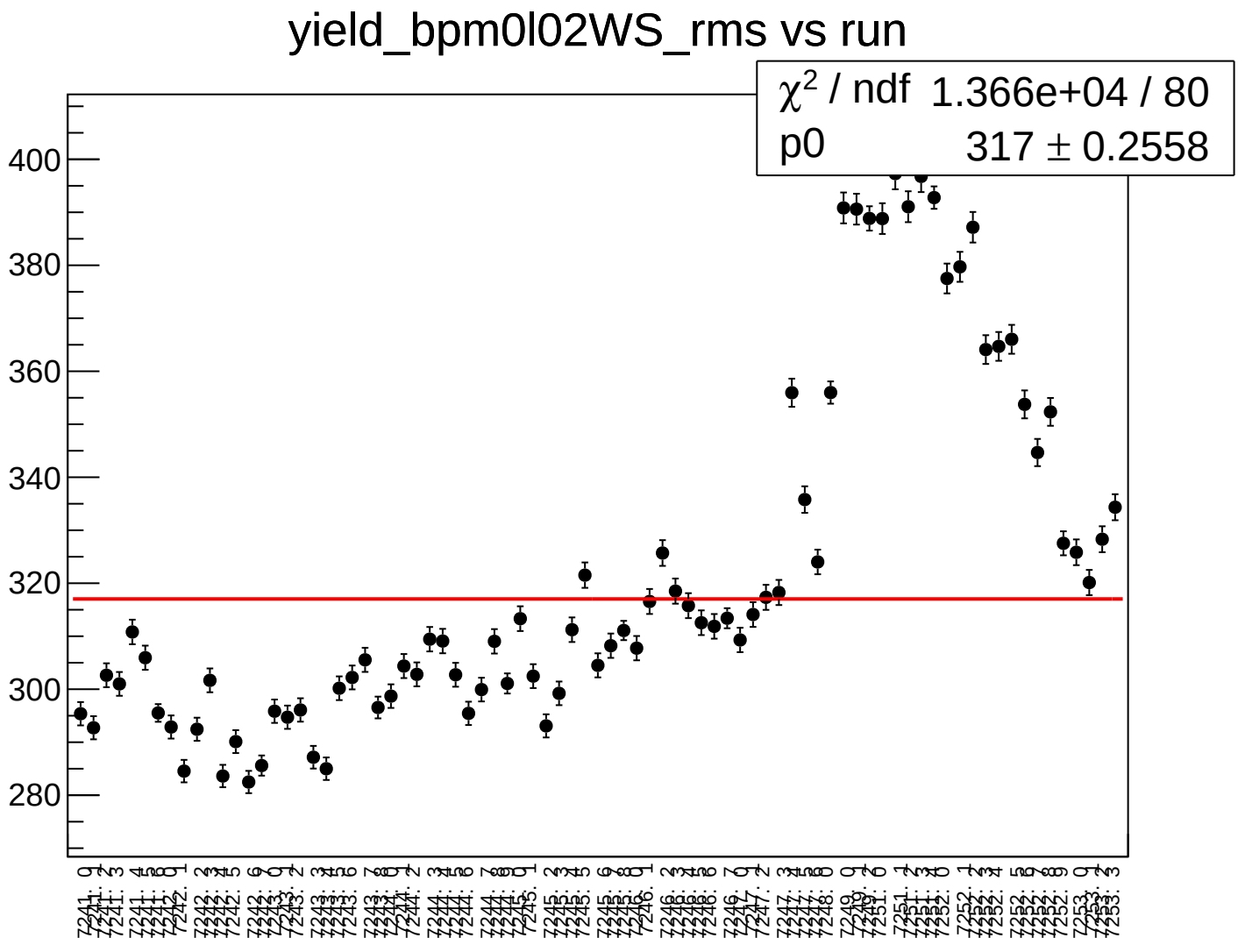

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 4.012e+05 / 80
p0 1.189e+05 ± 0.2605
119.3
119.2
119.1
119
118.9
118.8
118.7
118.6
pull
Entries 81
Mean 260.7
Std Dev 0
150
100
50
0
−50
−100
−150

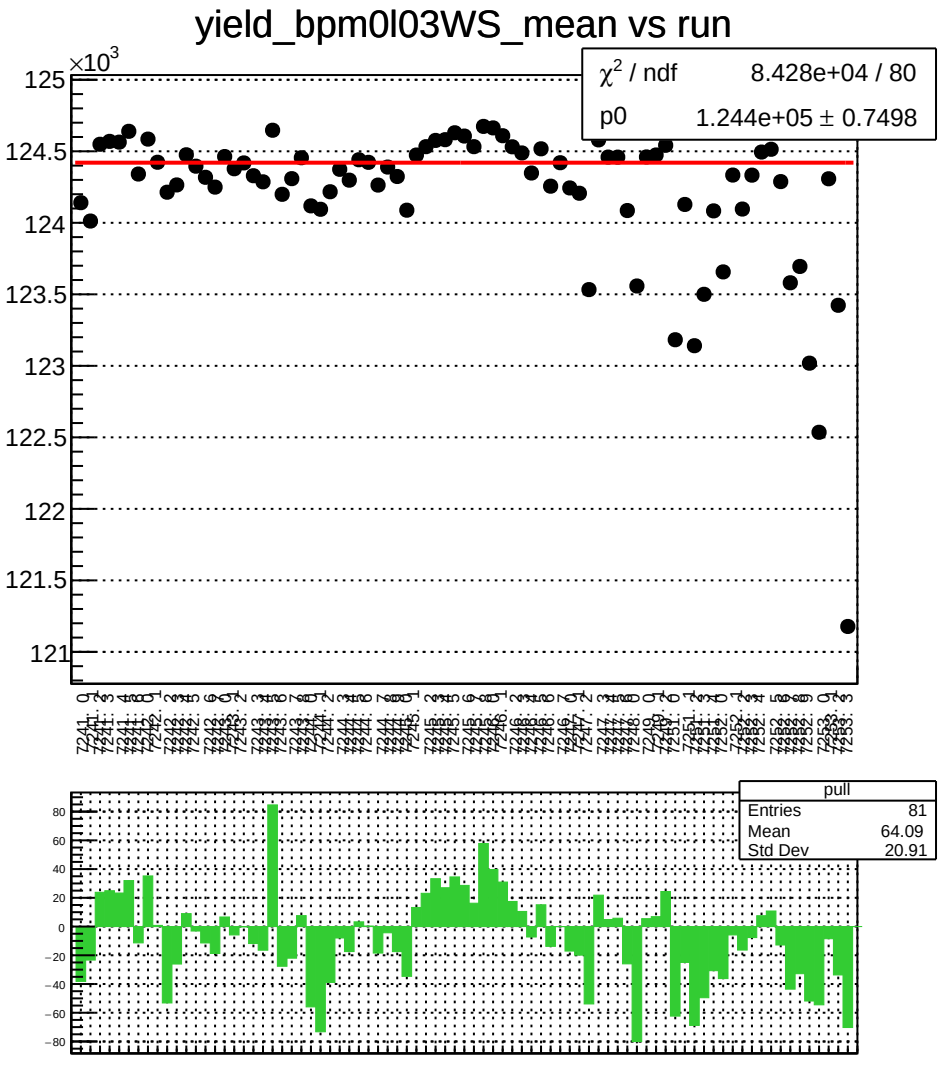

pull1D
Entries 81
Mean 3.068
Std Dev 2.078
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

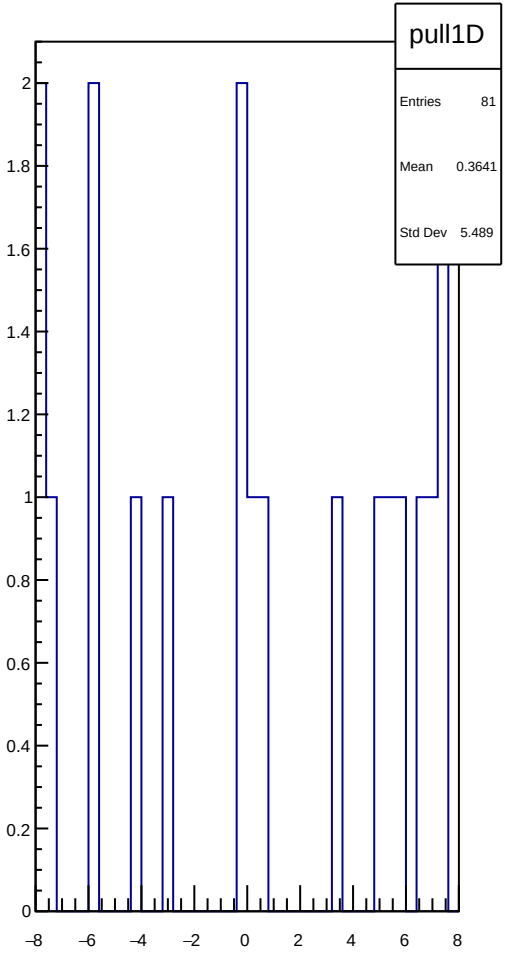

yield_bpm0l01WS_rms vs run
χ² / ndf 1.4e+04 / 80
p0 228.2 ± 0.1842
300
280
260
240
220
200

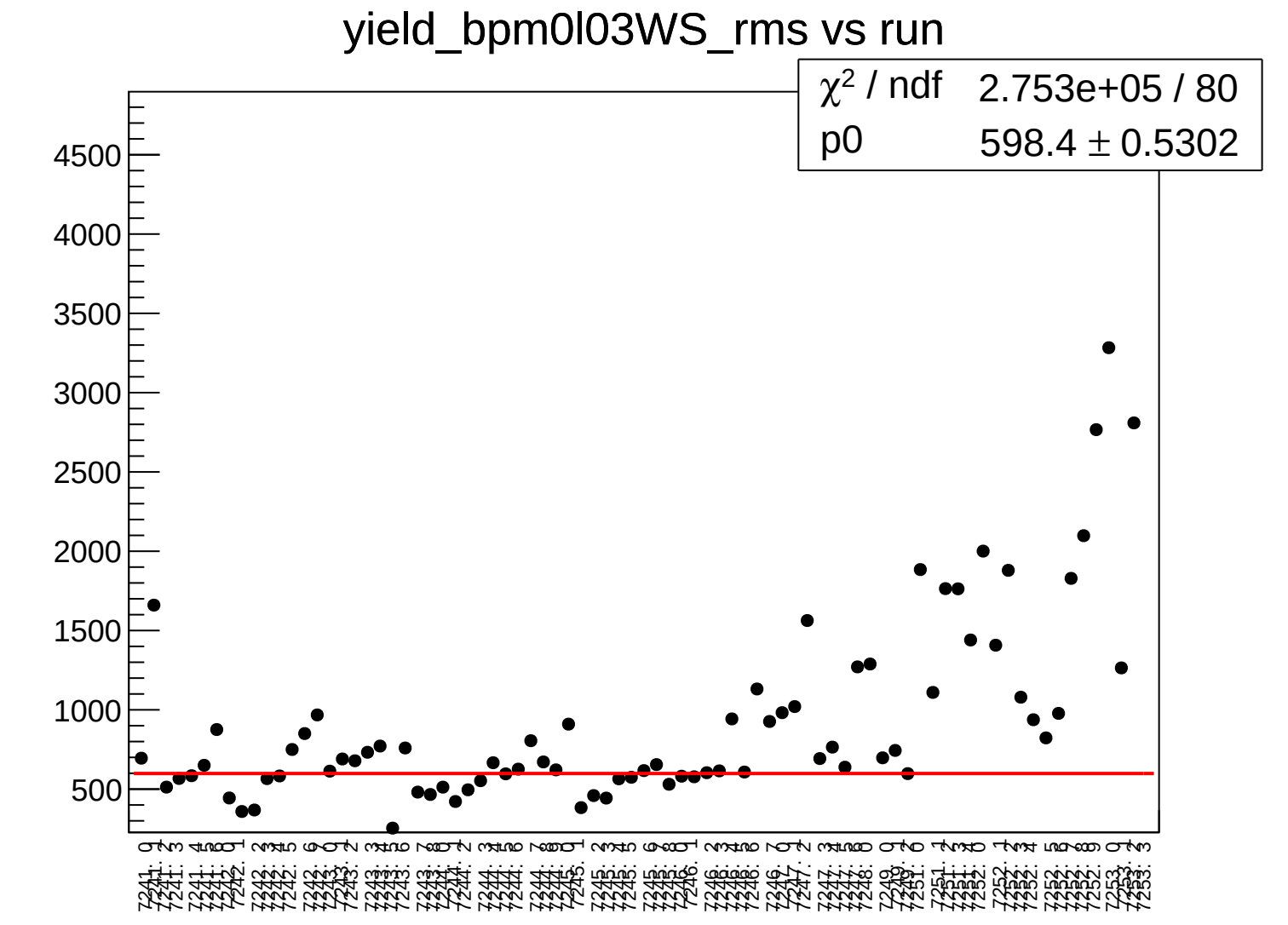

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 4.186e+06 / 80
p0 1.252e+05 ± 0.3618
126.5
126
125.5
125
124.5
124
pull
Entries 81
Mean 491.4
Std Dev 0
400
300
200
100
0
−100
−200
−300

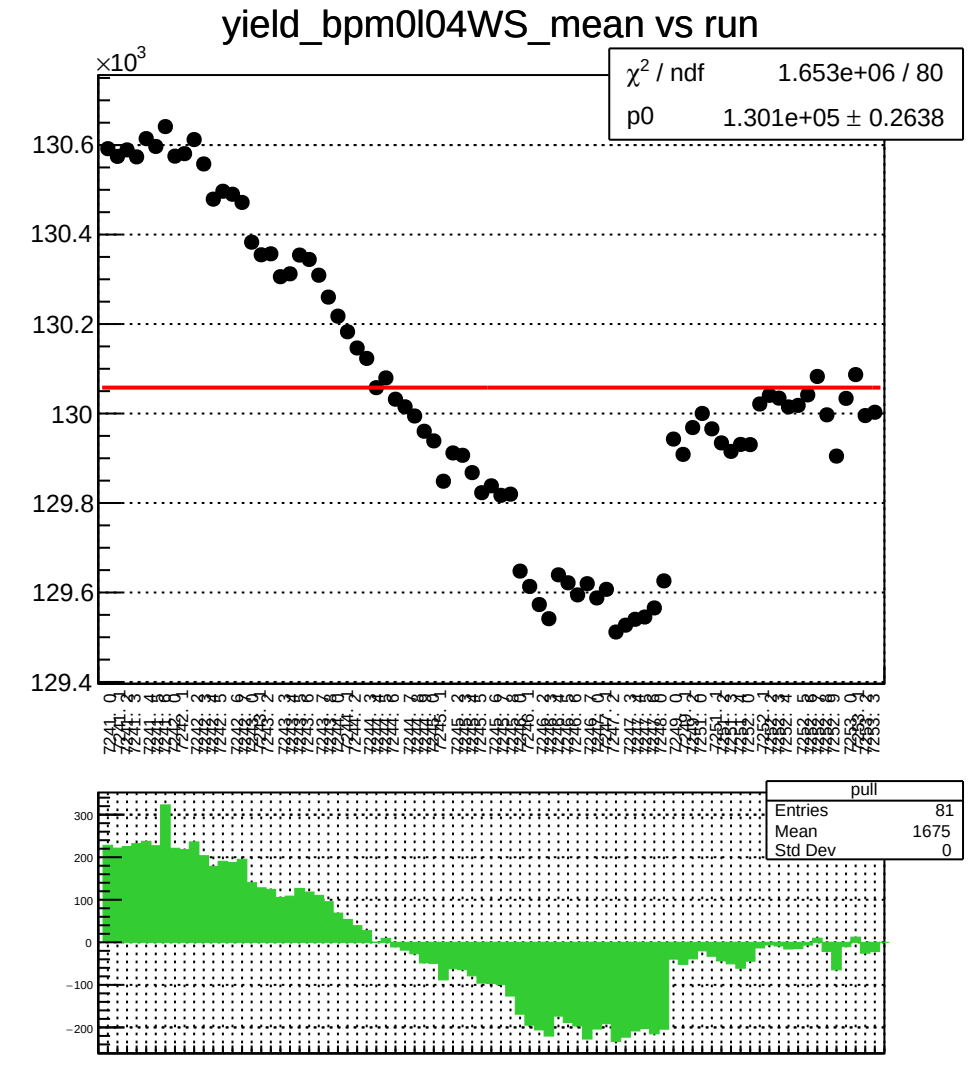

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

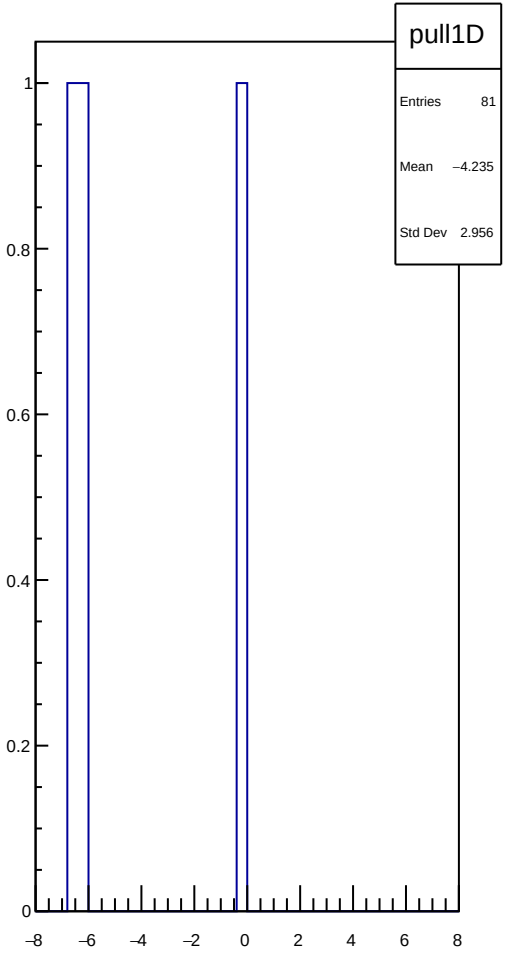

yield_bpm0l02WS_rms vs run
χ² / ndf 1.366e+04 / 80
p0 317 ± 0.2558
400
380
360
340
320
300
280

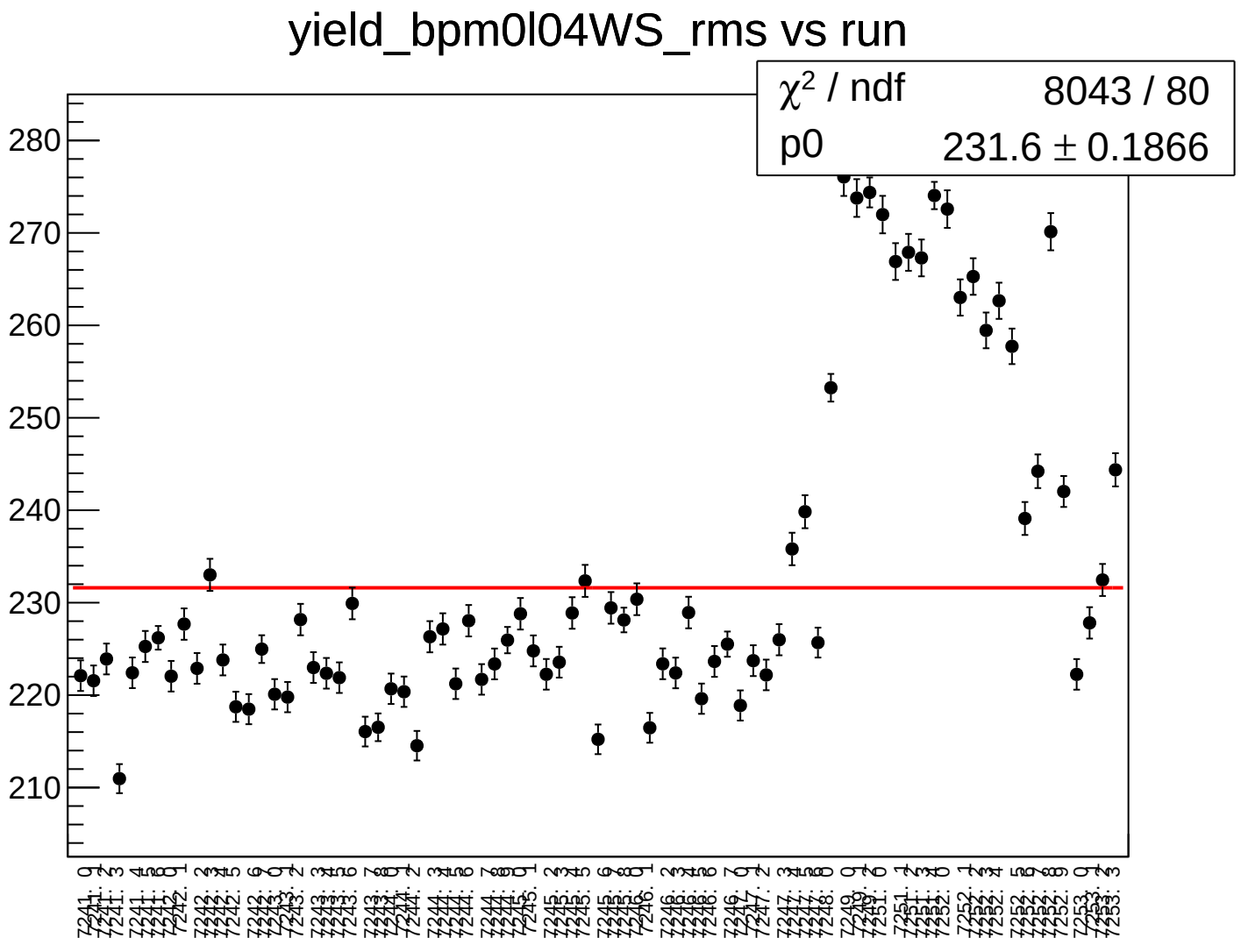

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 8.428e+04 / 80
p0 1.244e+05 ± 0.7498
125
124.5
124
123.5
123
122.5
122
121.5
121
pull
Entries 81
Mean 64.09
Std Dev 20.91
80
60
40
20
0
−20
−40
−60
−80

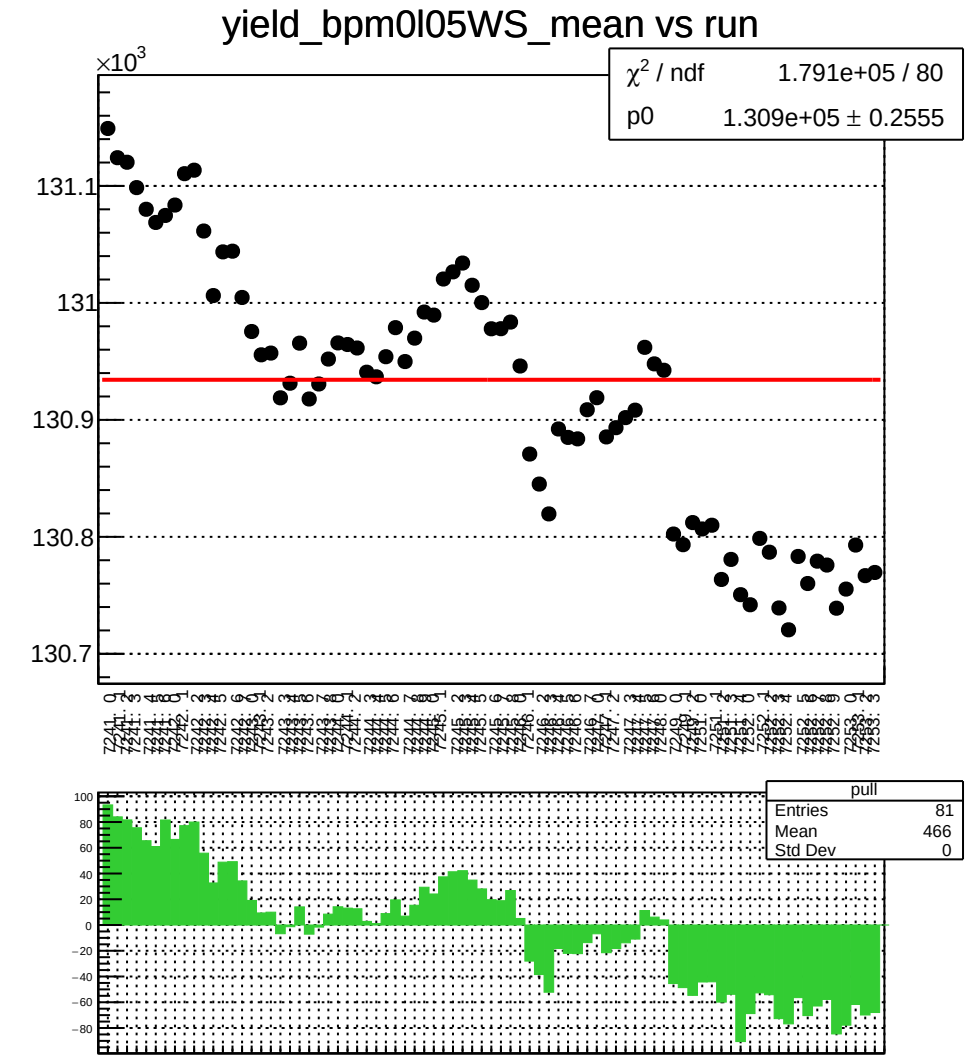

pull1D
Entries 81
Mean 0.3641
Std Dev 5.489
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

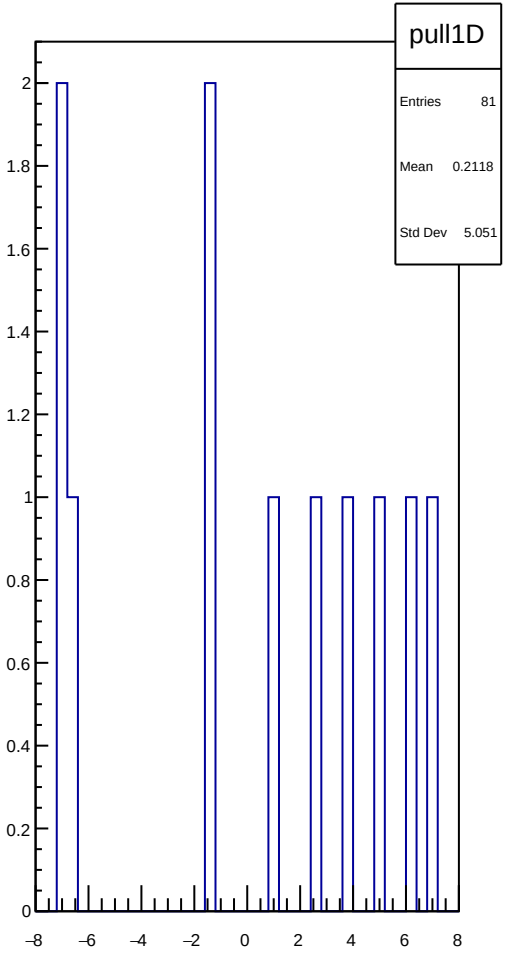

yield_bpm0l03WS_rms vs run
χ² / ndf 2.753e+05 / 80
p0 598.4 ± 0.5302
4500
4000
3500
3000
2500
2000
1500
1000
500

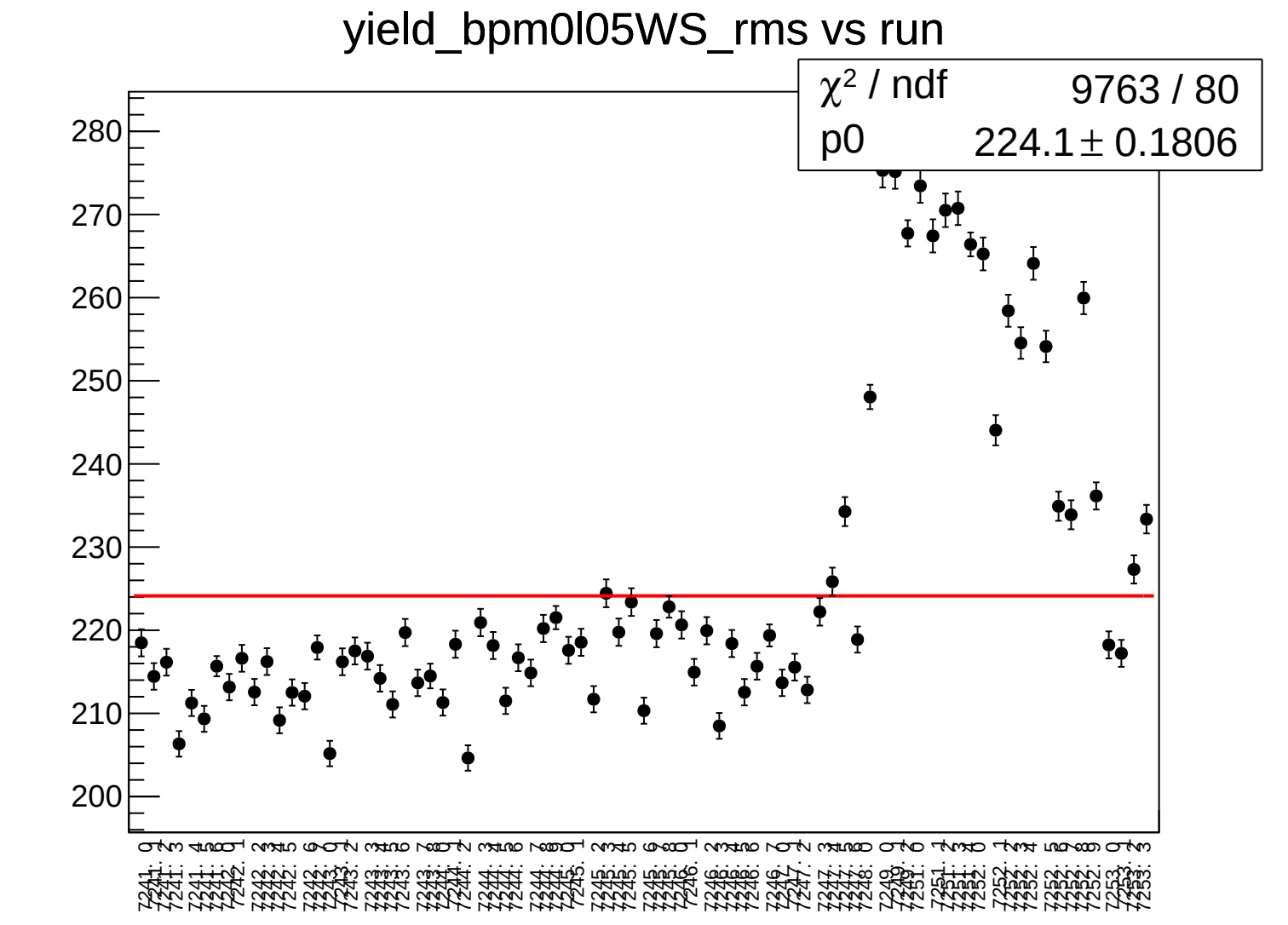

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 1.653e+06 / 80
p0 1.301e+05 ± 0.2638
130.6
130.4
130.2
130
129.8
129.6
129.4
pull
Entries 81
Mean 1675
Std Dev 0
300
200
100
0
−100
−200

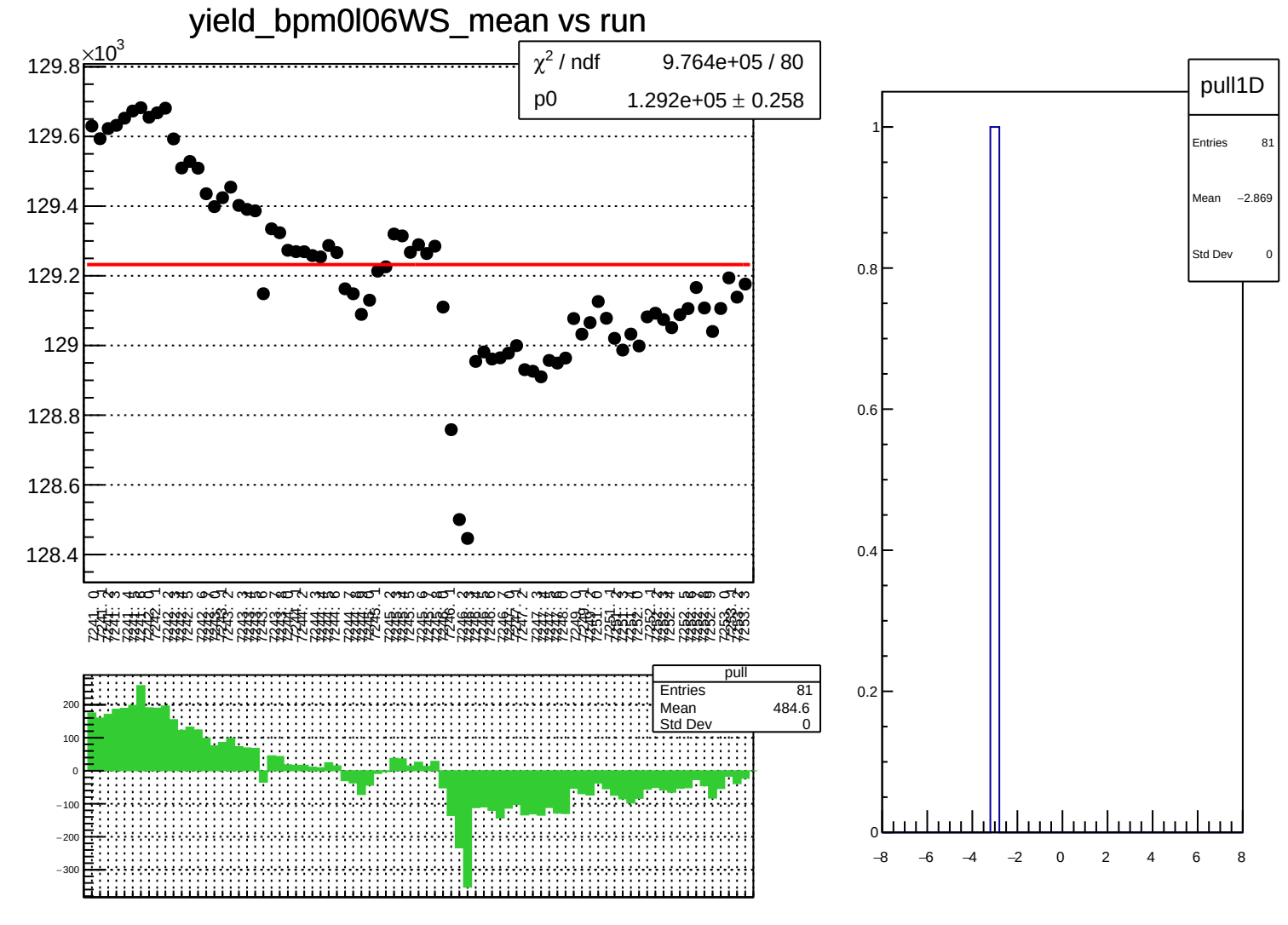

pull1D
Entries 81
Mean −4.235
Std Dev 2.956
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

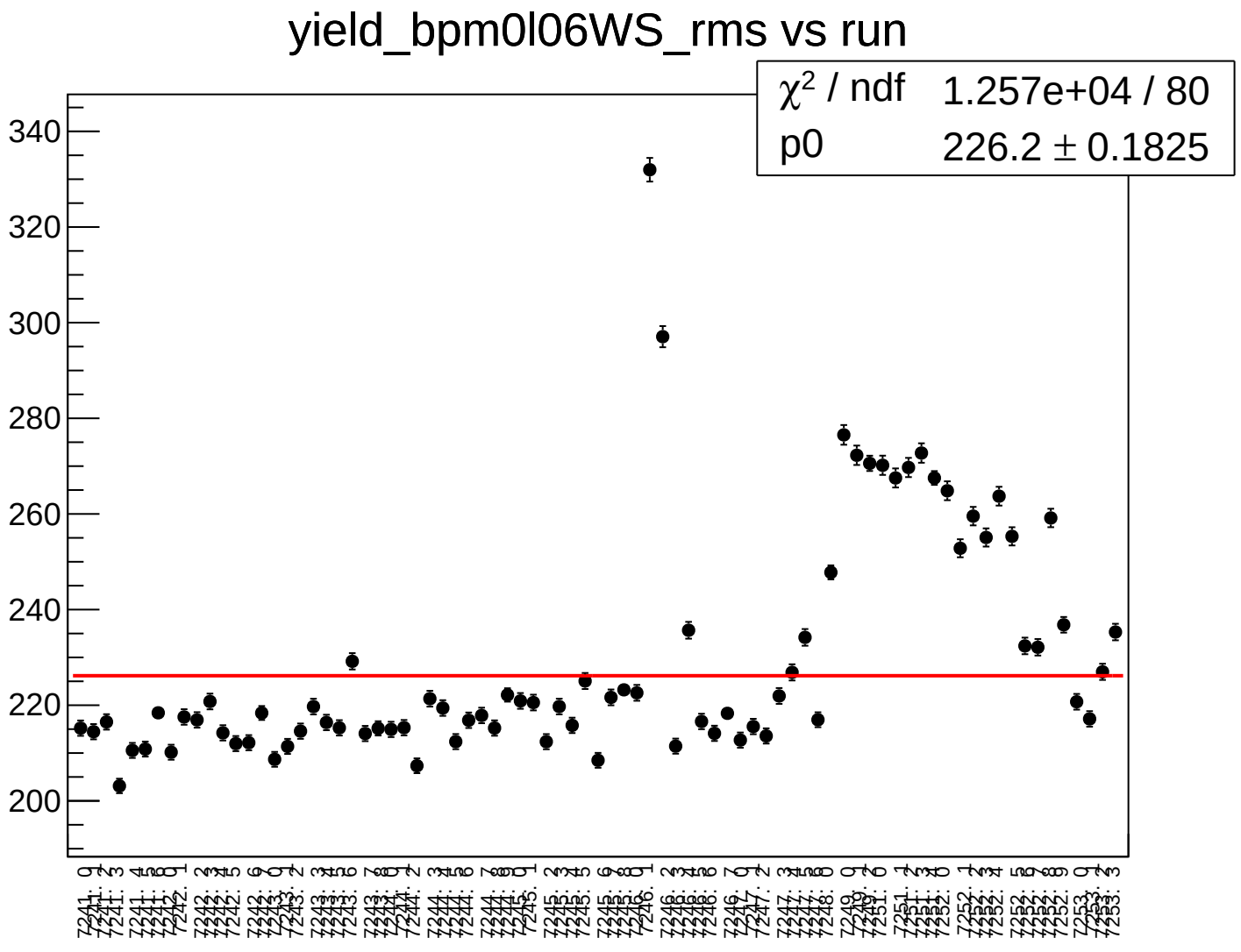

yield_bpm0l04WS_rms vs run
χ² / ndf 8043 / 80
p0 231.6 ± 0.1866
280
270
260
250
240
230
220
210

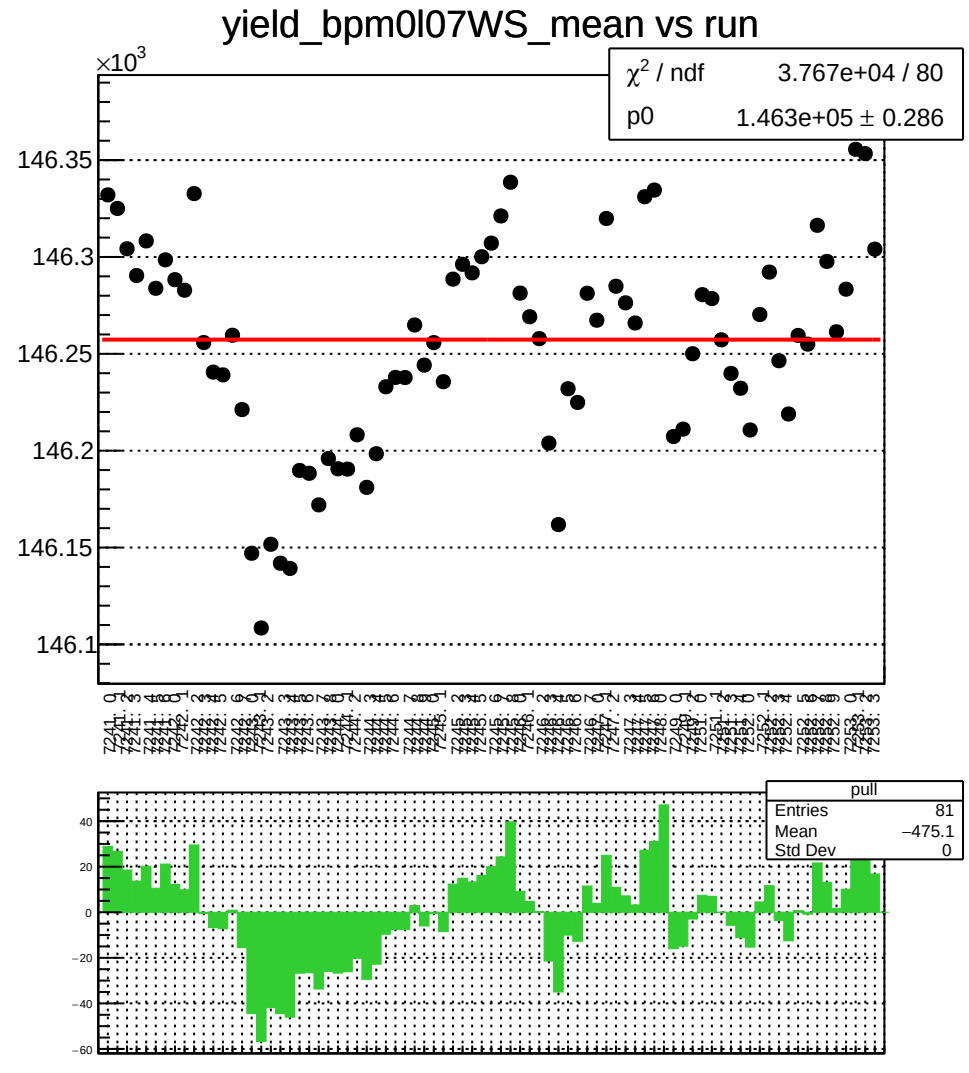

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 1.791e+05 / 80
p0 1.309e+05 ± 0.2555
131.1
131
130.9
130.8
130.7
pull
Entries 81
Mean 466
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80

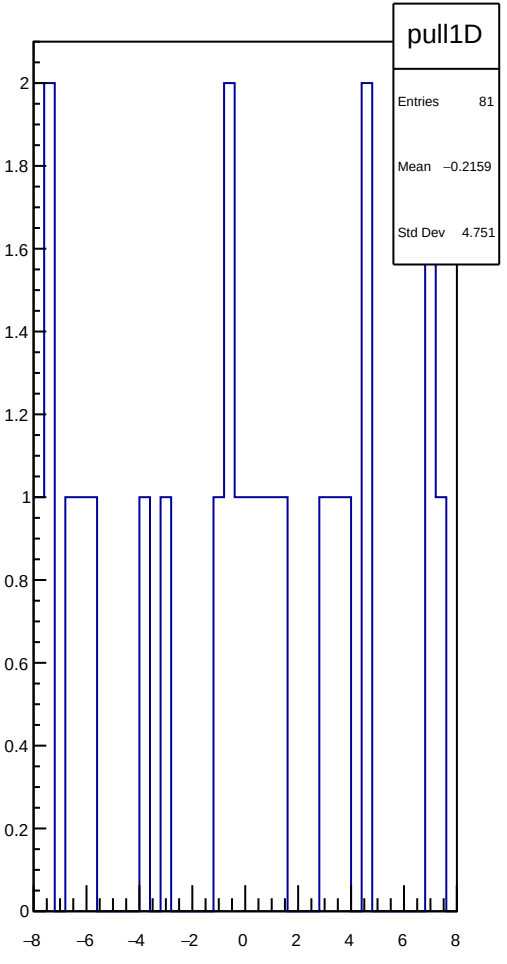

pull1D
Entries 81
Mean 0.2118
Std Dev 5.051
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

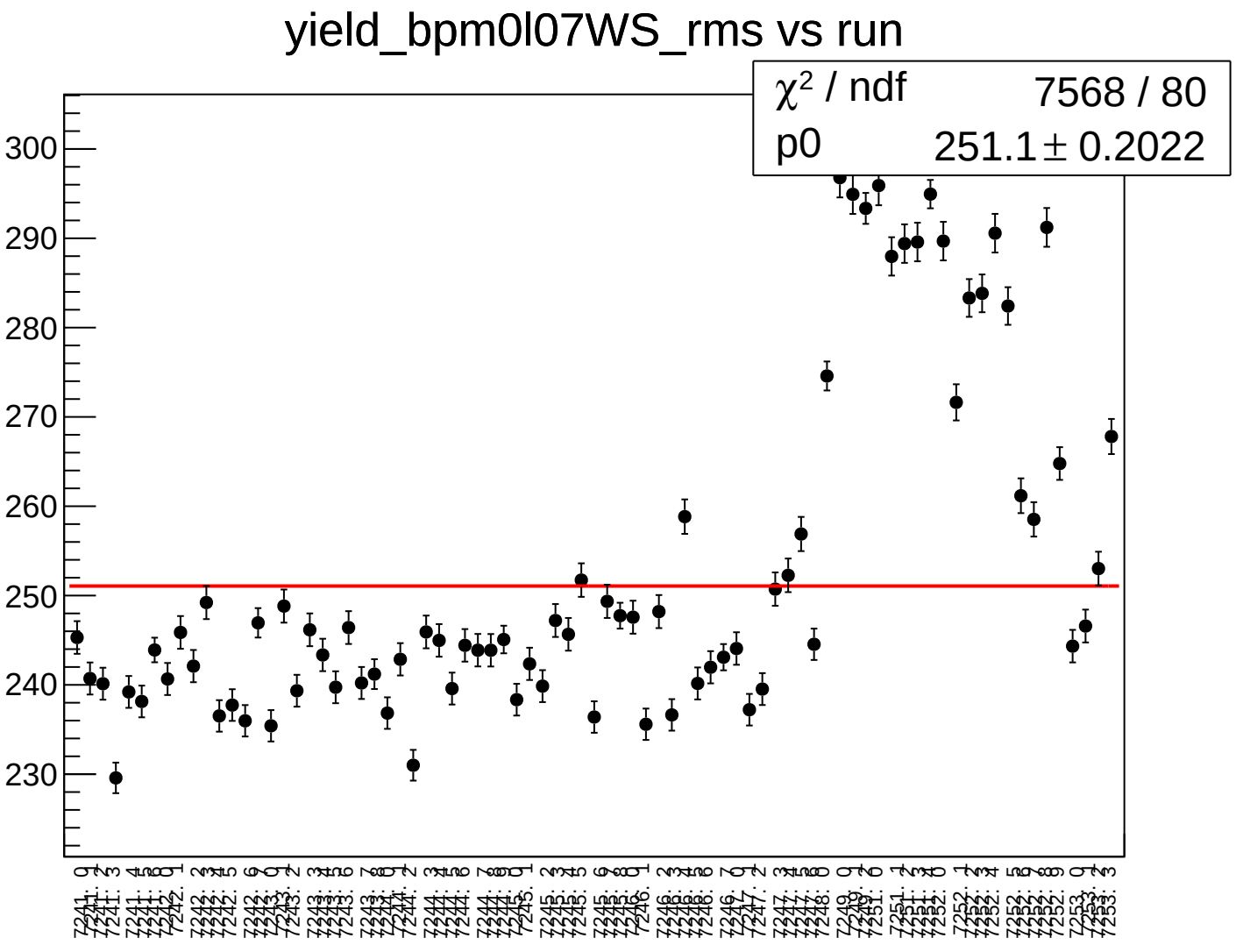

yield_bpm0l05WS_rms vs run
χ² / ndf 9763 / 80
p0 224.1 ± 0.1806
280
270
260
250
240
230
220
210
200

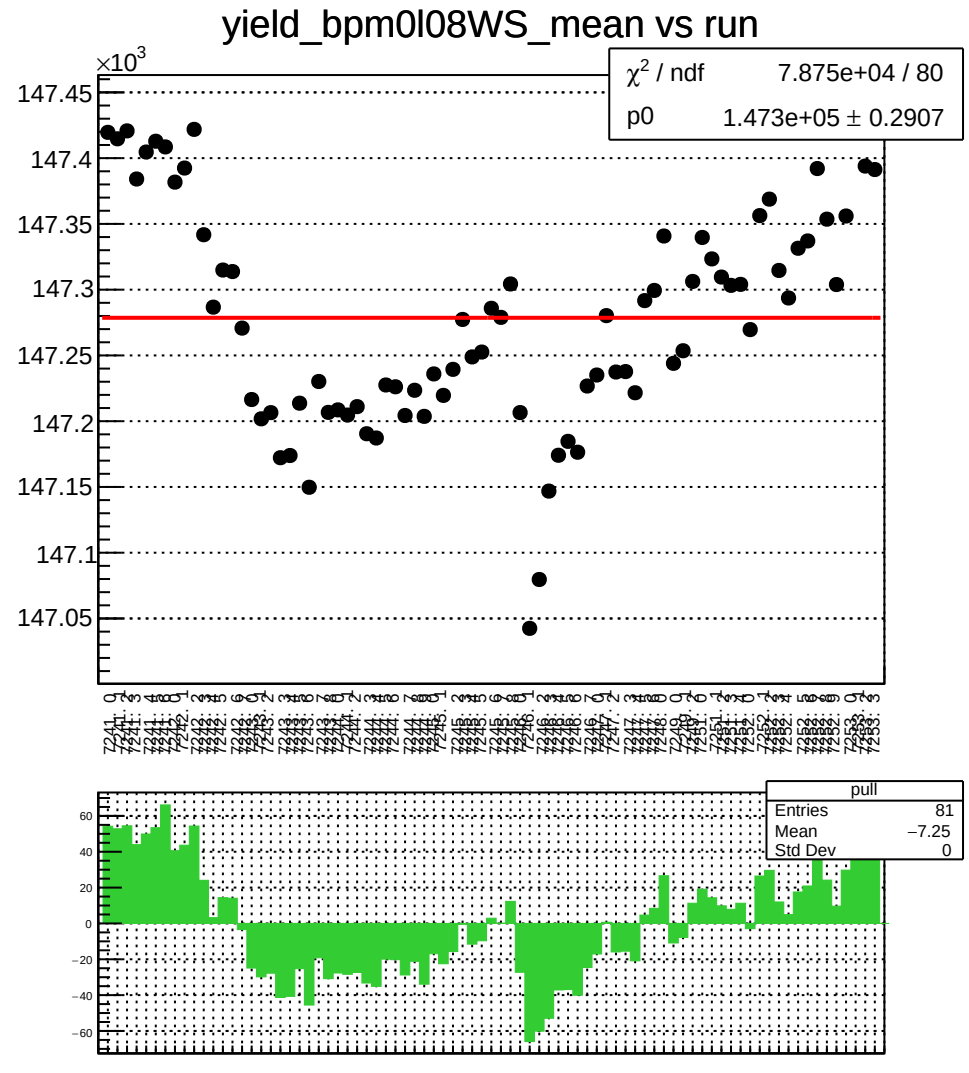

yield_bpm0l06WS_mean vs run
×10^3
129.8
129.6
129.4
129.2
129
128.8
128.6
128.4
χ² / ndf 9.764e+05 / 80
p0 1.292e+05 ± 0.258
pull
Entries 81
Mean 484.6
Std Dev 0
200
100
0
−100
−200
−300
pull1D
Entries 81
Mean −2.869
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

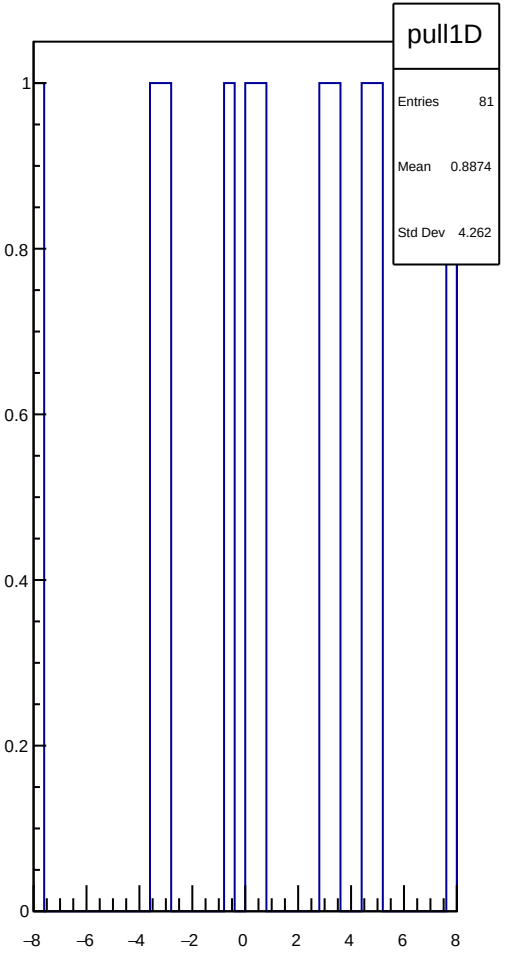

yield_bpm0l06WS_rms vs run
χ² / ndf 1.257e+04 / 80
p0 226.2 ± 0.1825
340
320
300
280
260
240
220
200

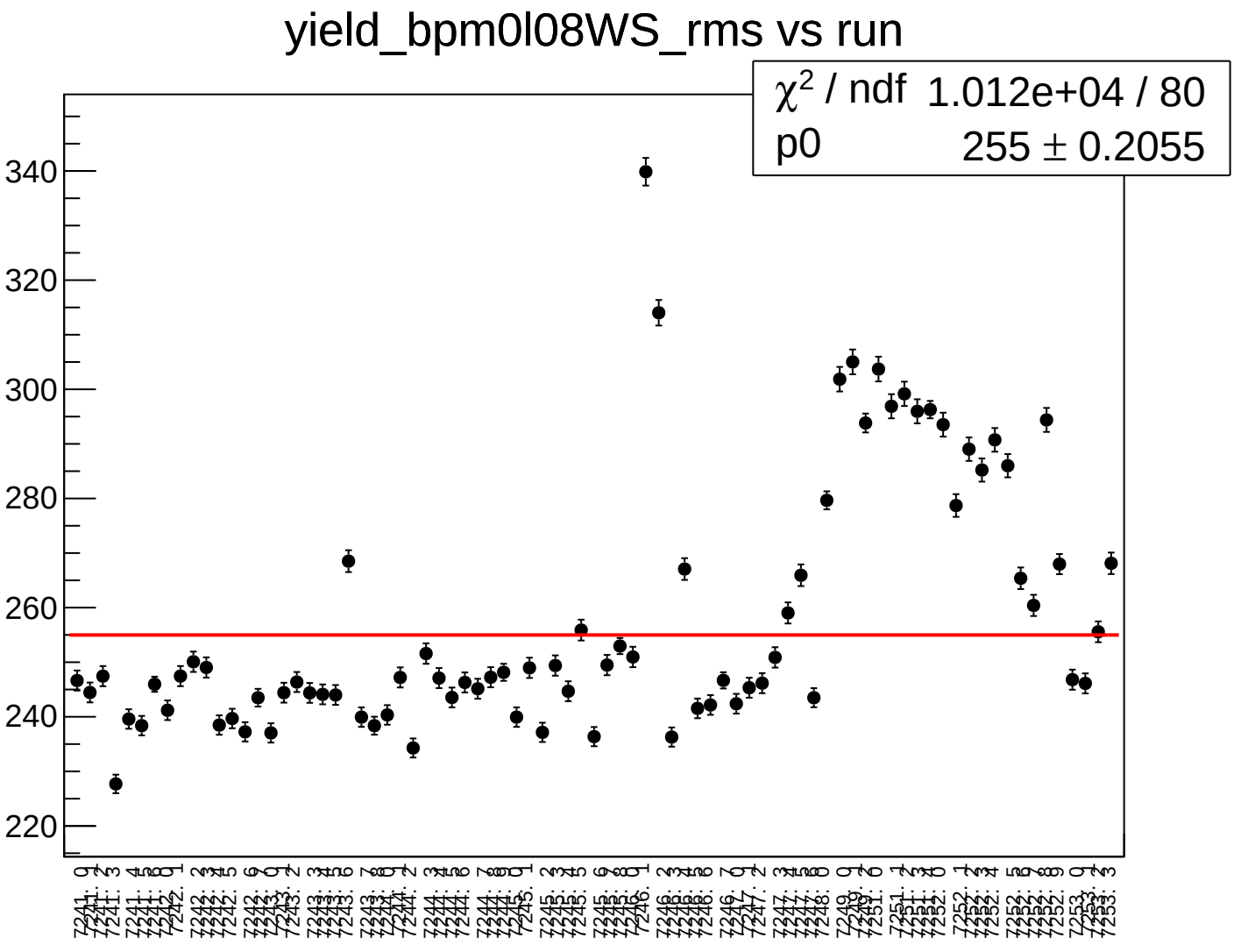

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 3.767e+04 / 80
p0 1.463e+05 ± 0.286
146.35
146.3
146.25
146.2
146.15
146.1
pull
Entries 81
Mean −475.1
Std Dev 0
40
20
0
−20
−40
−60

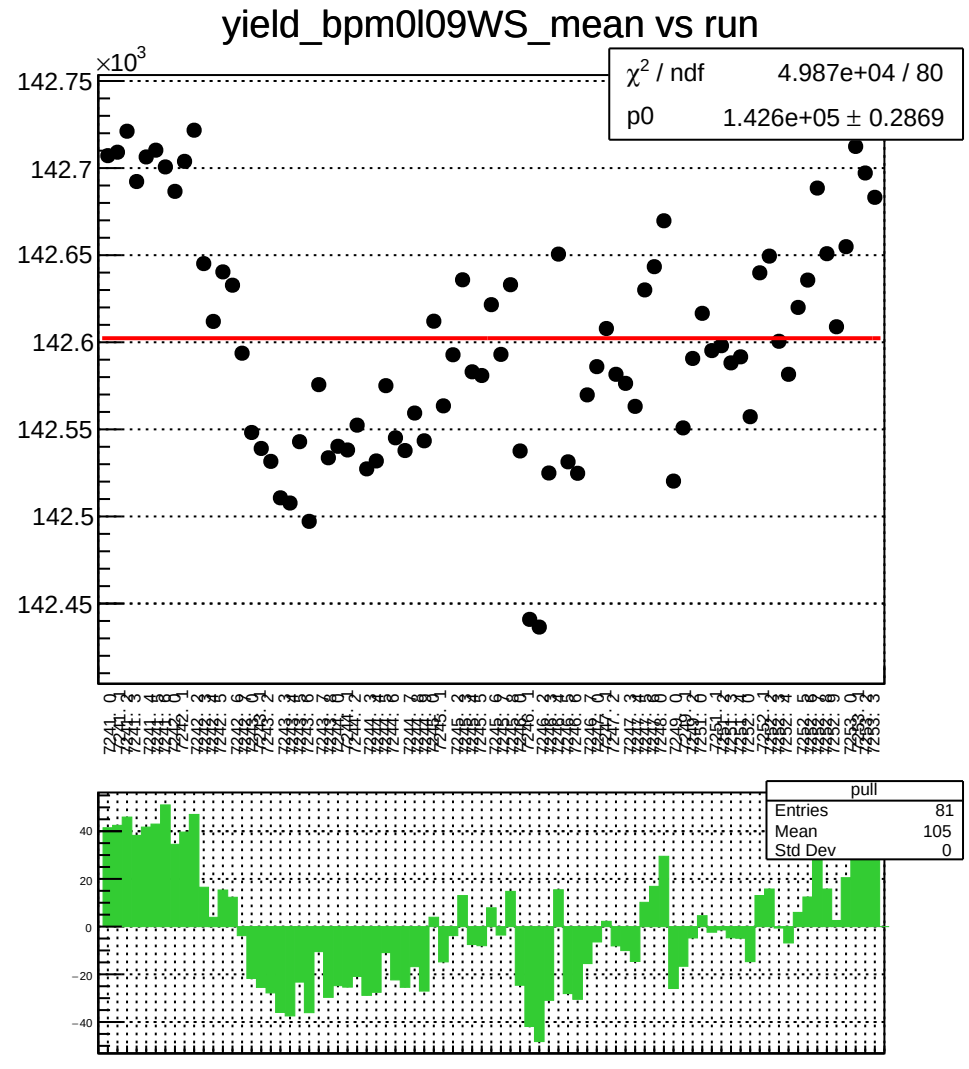

pull1D
Entries 81
Mean −0.2159
Std Dev 4.751
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

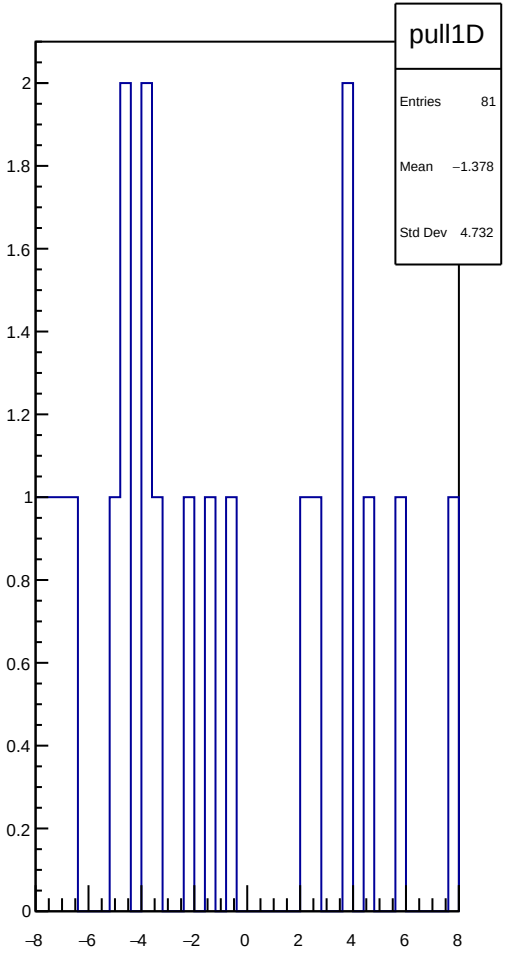

yield_bpm0l07WS_rms vs run
χ² / ndf 7568 / 80
p0 251.1 ± 0.2022
300
290
280
270
260
250
240
230

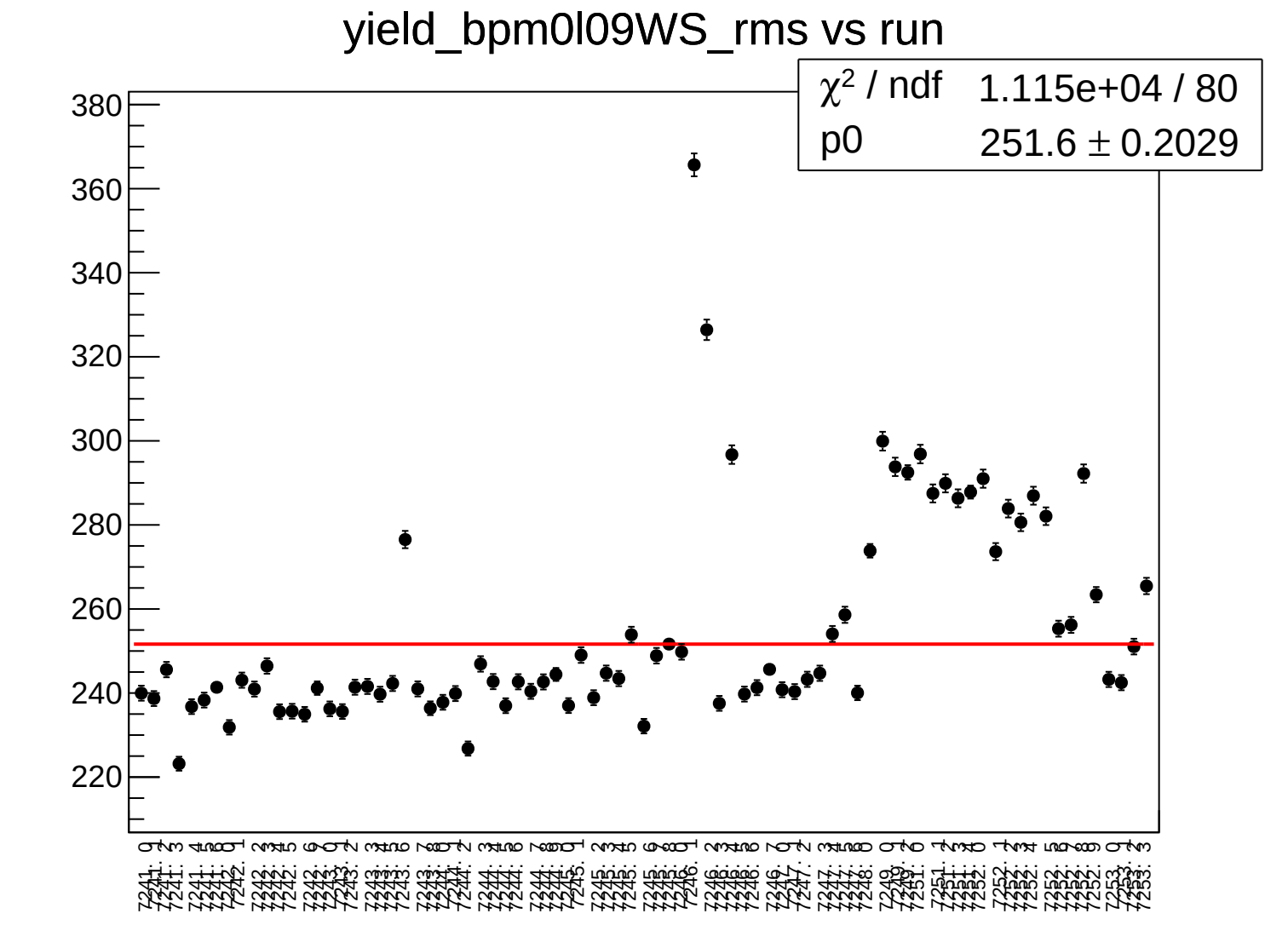

yield_bpm0l08WS_mean vs run
×10^3
χ² / ndf 7.875e+04 / 80
p0 1.473e+05 ± 0.2907
147.45
147.4
147.35
147.3
147.25
147.2
147.15
147.1
147.05
pull
Entries 81
Mean −7.25
Std Dev 0
60
40
20
0
−20
−40
−60

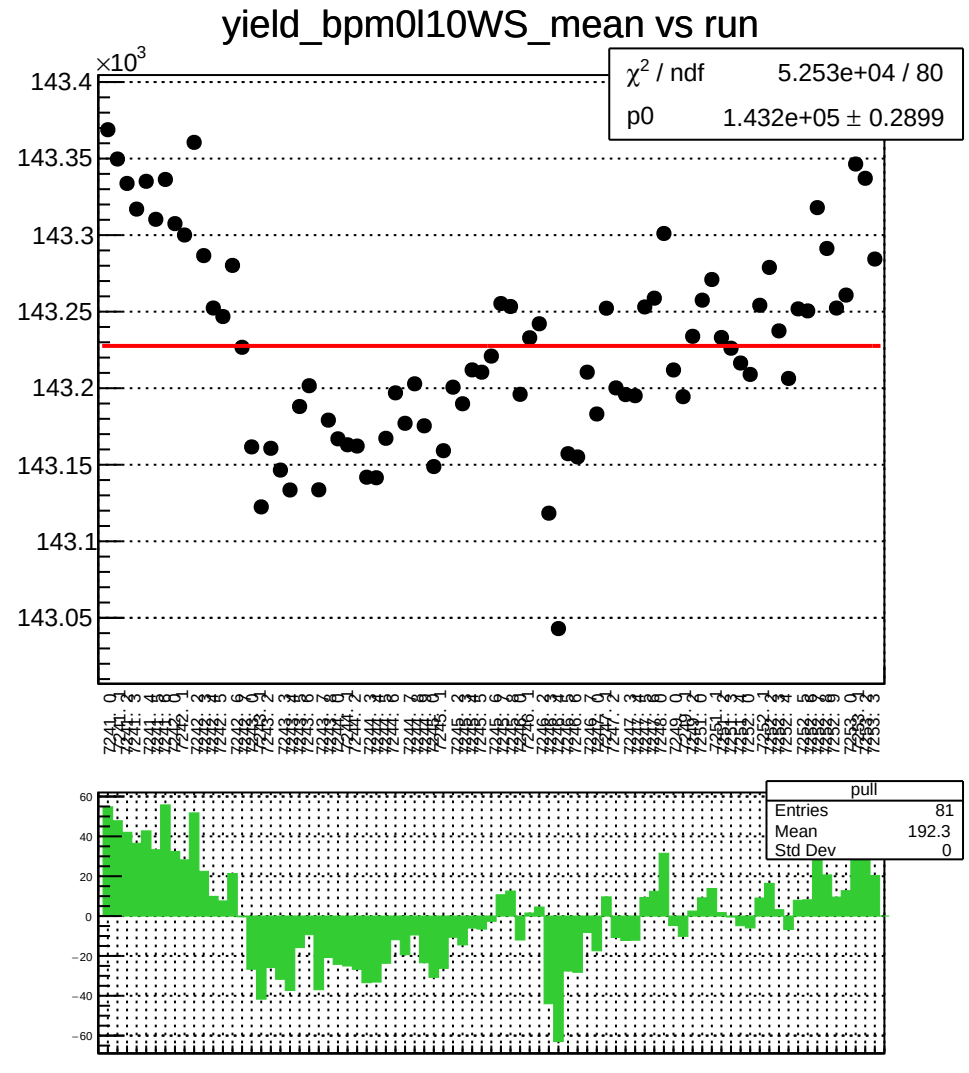

pull1D
Entries 81
Mean 0.8874
Std Dev 4.262
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

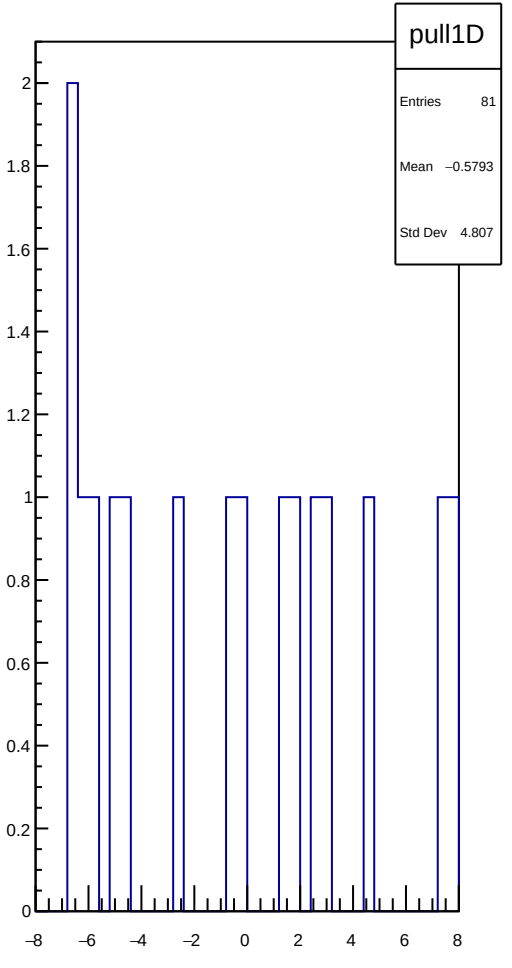

yield_bpm0l08WS_rms vs run
χ² / ndf 1.012e+04 / 80
p0 255 ± 0.2055
340
320
300
280
260
240
220

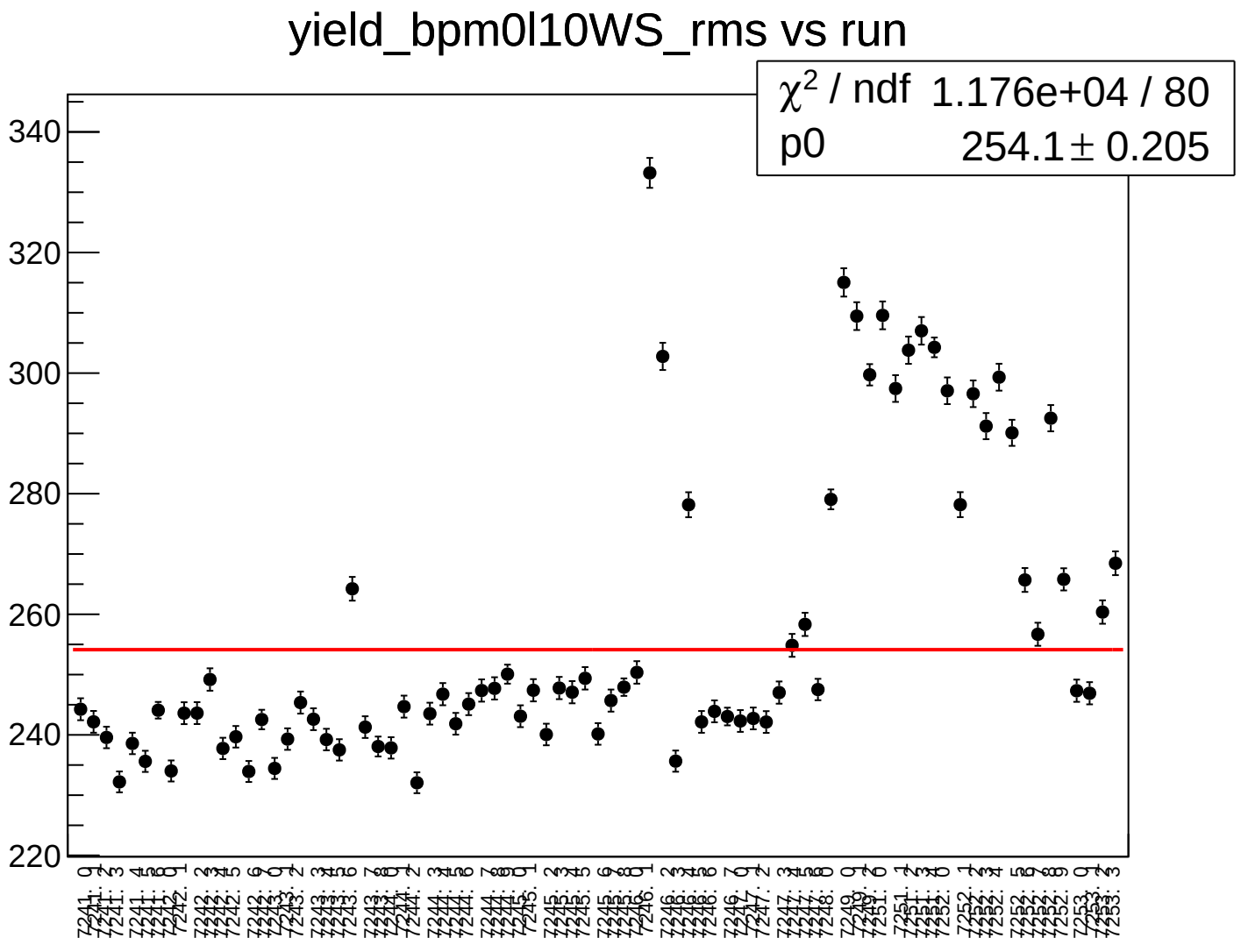

yield_bpm0l09WS_mean vs run
×10^3
142.75
142.7
142.65
142.6
142.55
142.5
142.45
χ² / ndf 4.987e+04 / 80
p0 1.426e+05 ± 0.2869
pull
Entries 81
Mean 105
Std Dev 0
40
20
0
−20
−40

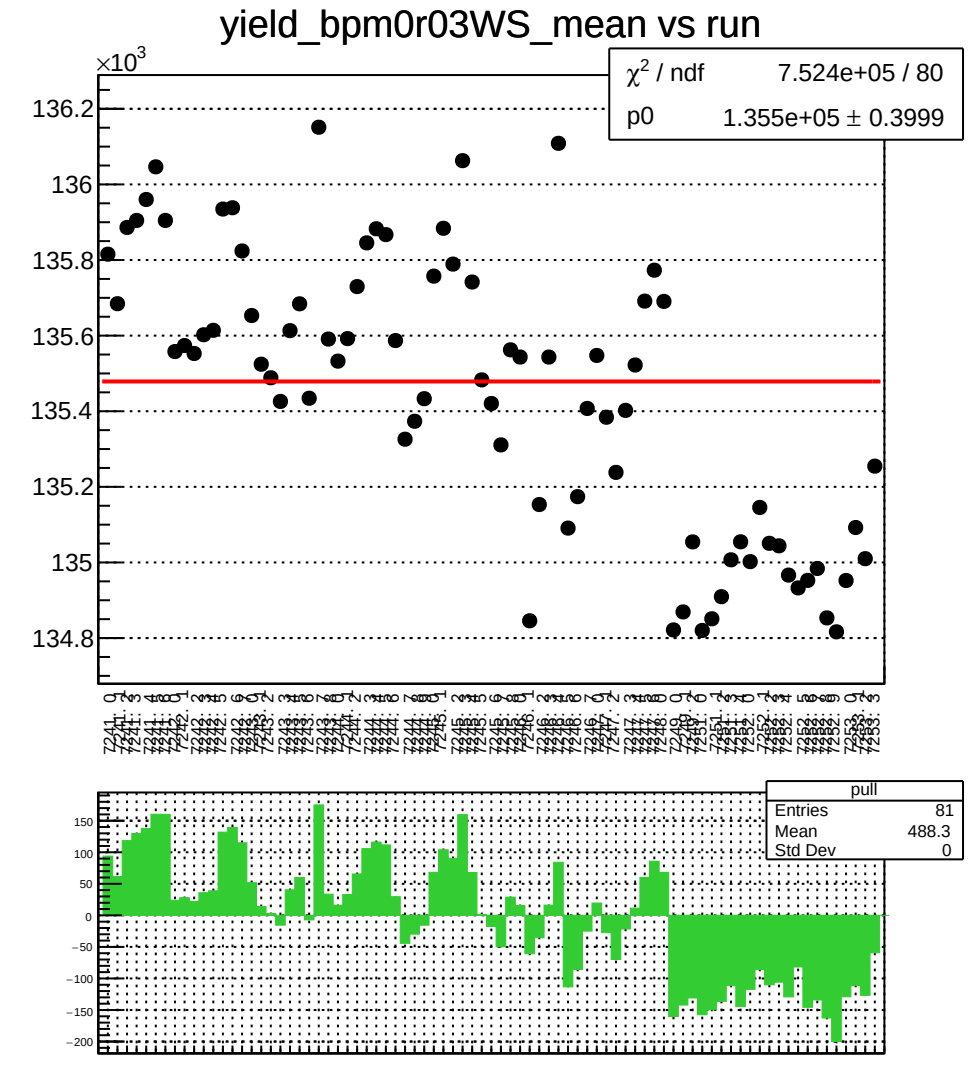

pull1D
Entries 81
Mean −1.378
Std Dev 4.732
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

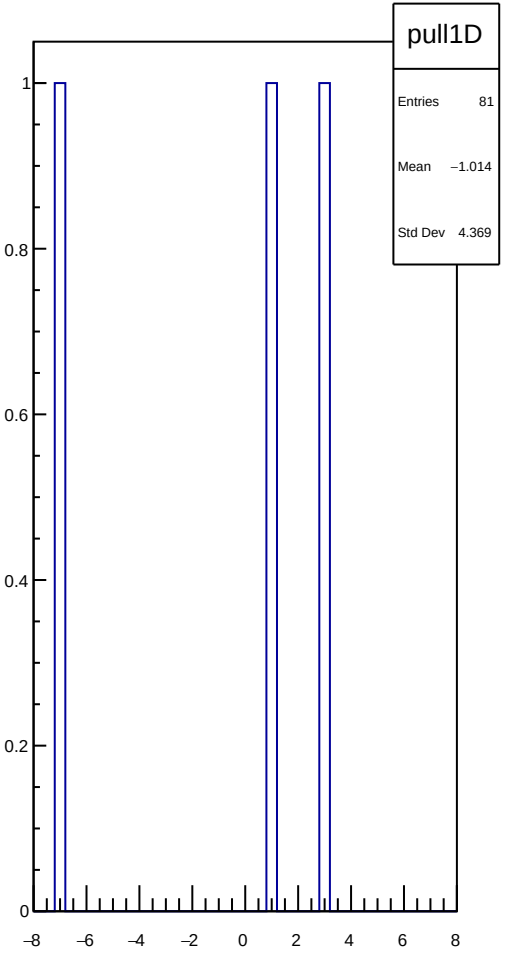

yield_bpm0l09WS_rms vs run
χ² / ndf 1.115e+04 / 80
p0 251.6 ± 0.2029
380
360
340
320
300
280
260
240
220

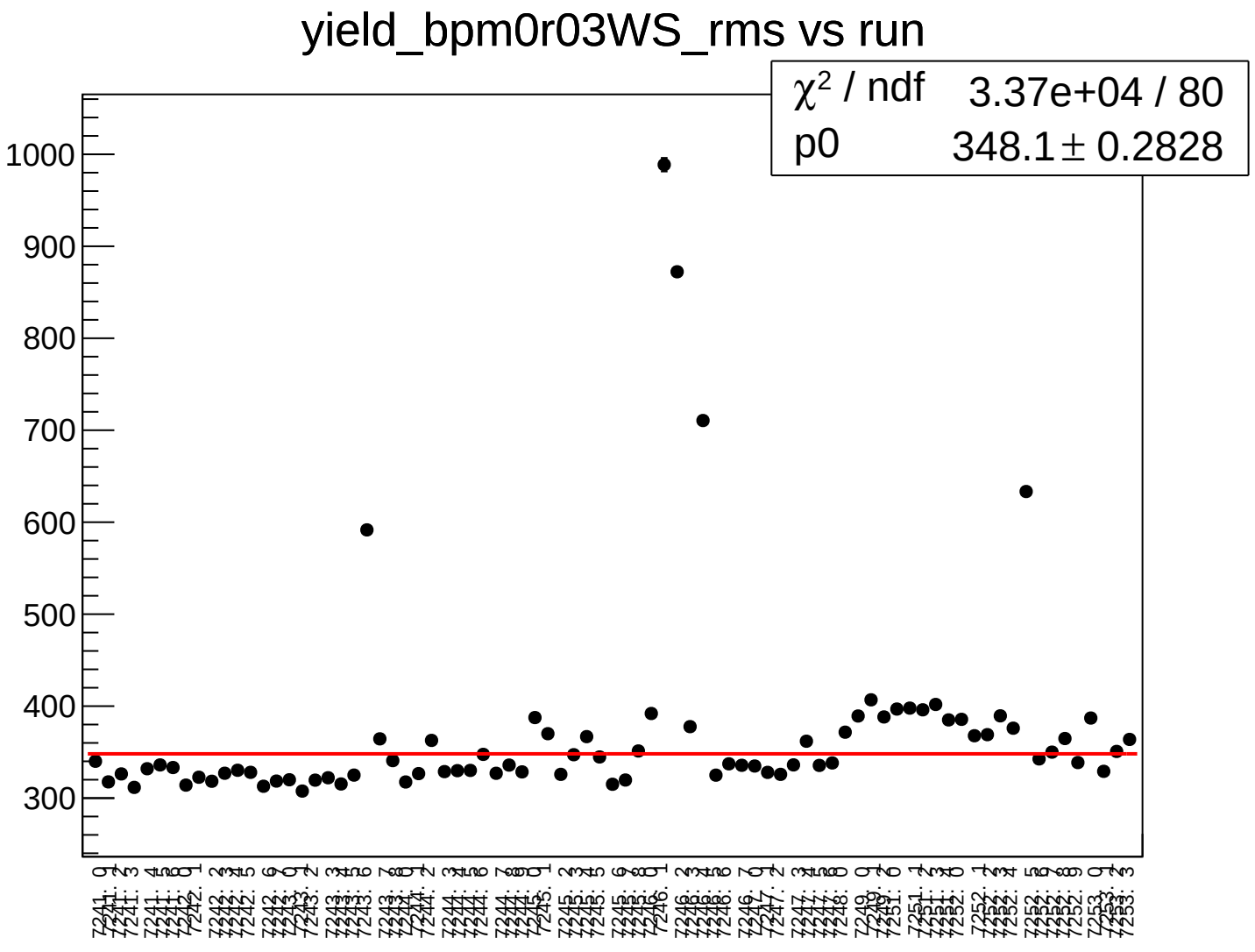

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 5.253e+04 / 80
p0 1.432e+05 ± 0.2899
143.4
143.35
143.3
143.25
143.2
143.15
143.1
143.05
pull
Entries 81
Mean 192.3
Std Dev 0
60
40
20
0
−20
−40
−60

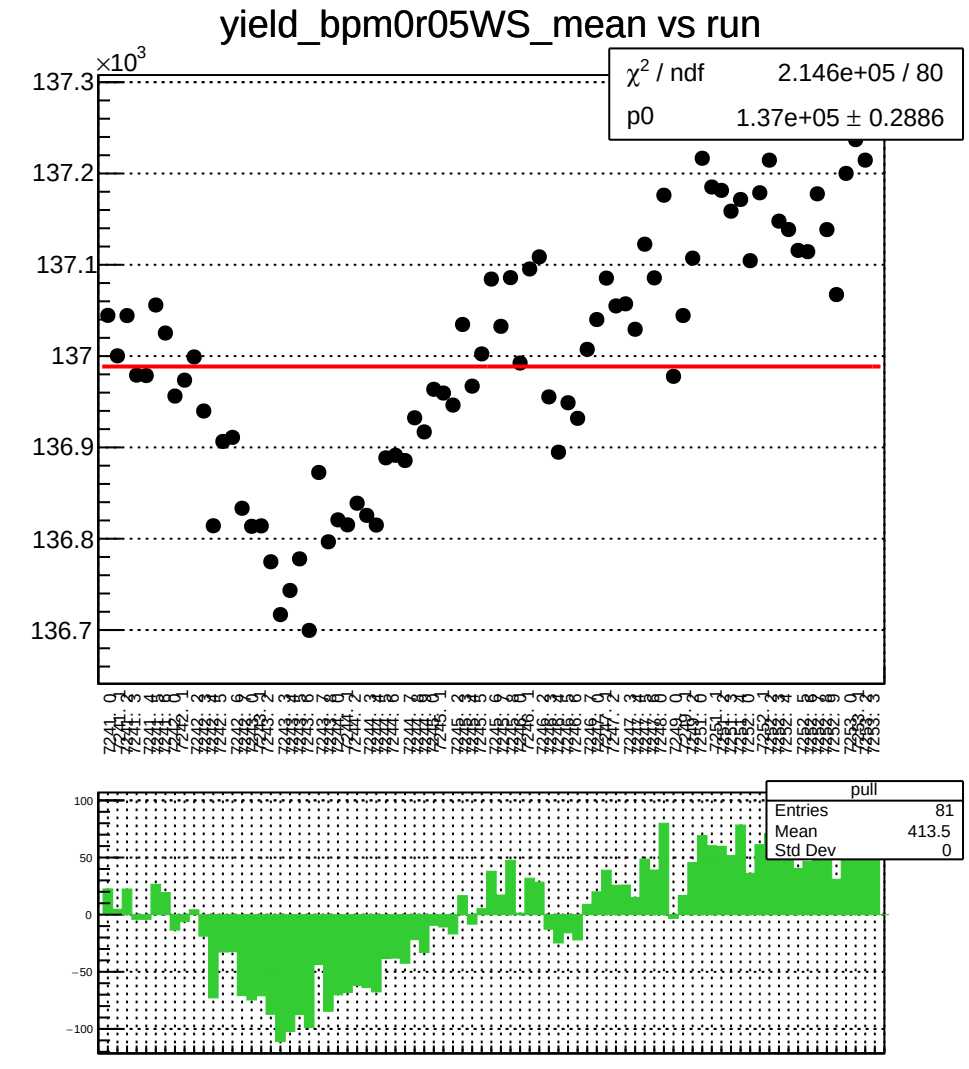

pull1D
Entries 81
Mean −0.5793
Std Dev 4.807
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

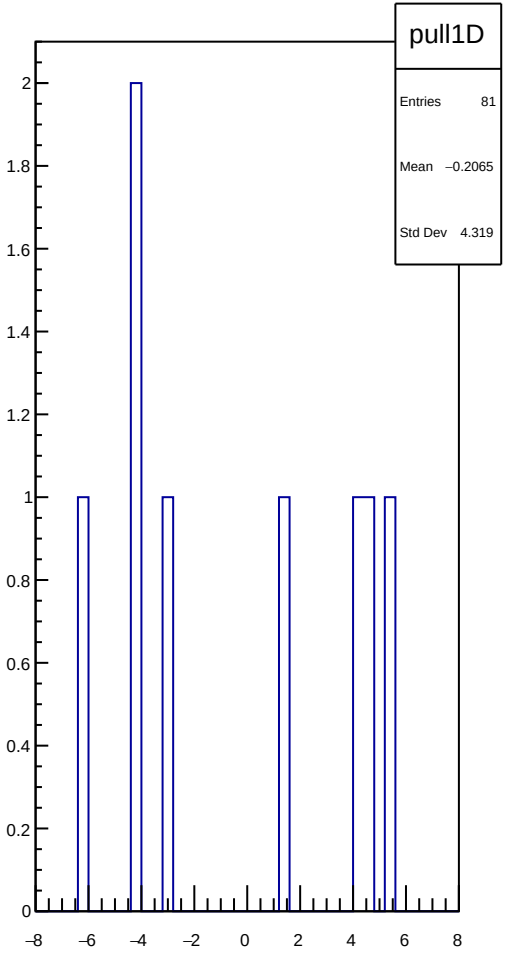

yield_bpm0l10WS_rms vs run
χ² / ndf 1.176e+04 / 80
p0 254.1 ± 0.205
340
320
300
280
260
240
220

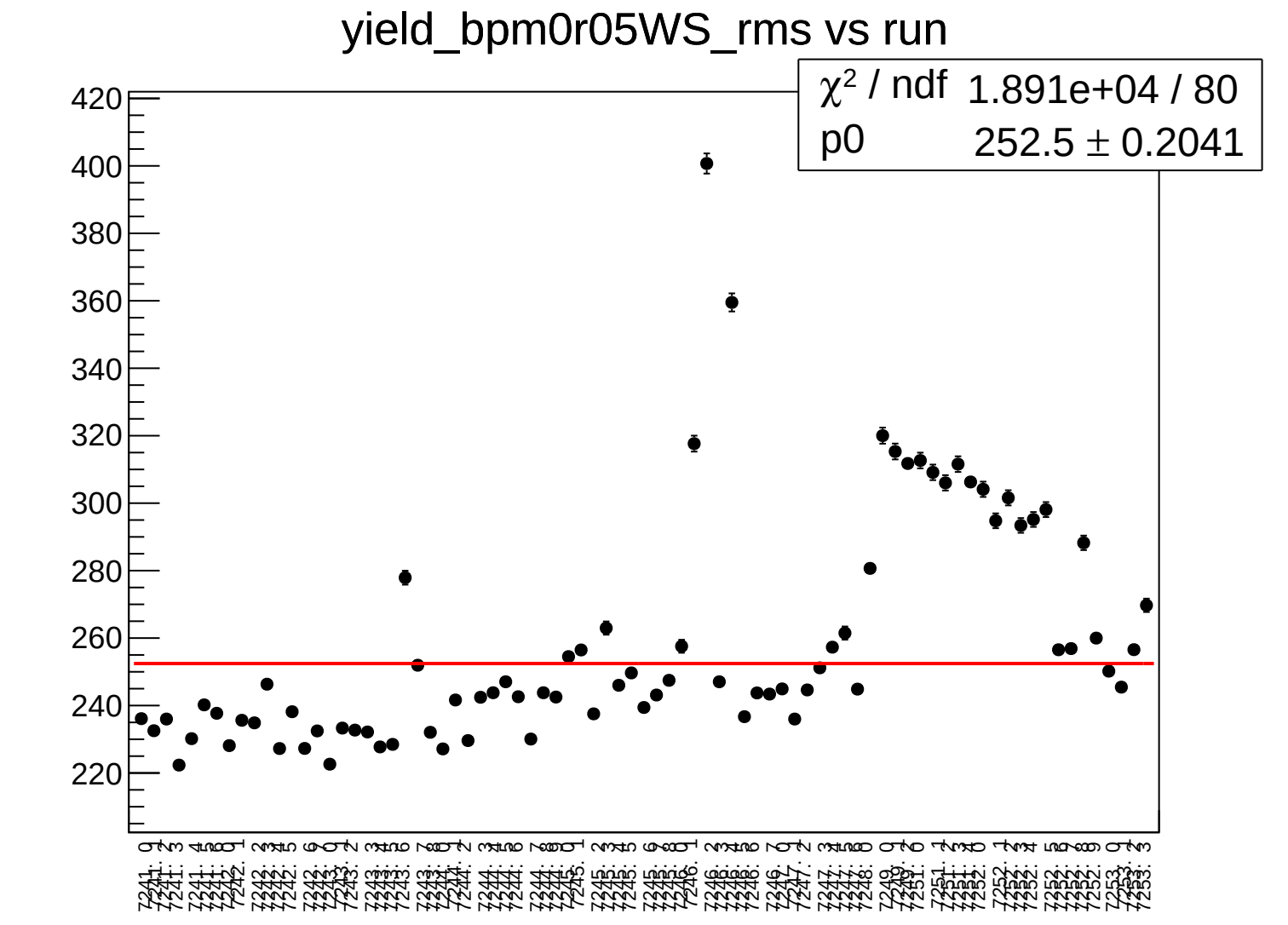

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 7.524e+05 / 80
p0 1.355e+05 ± 0.3999
136.2
136
135.8
135.6
135.4
135.2
135
134.8
pull
Entries 81
Mean 488.3
Std Dev 0
150
100
50
0
−50
−100
−150
−200

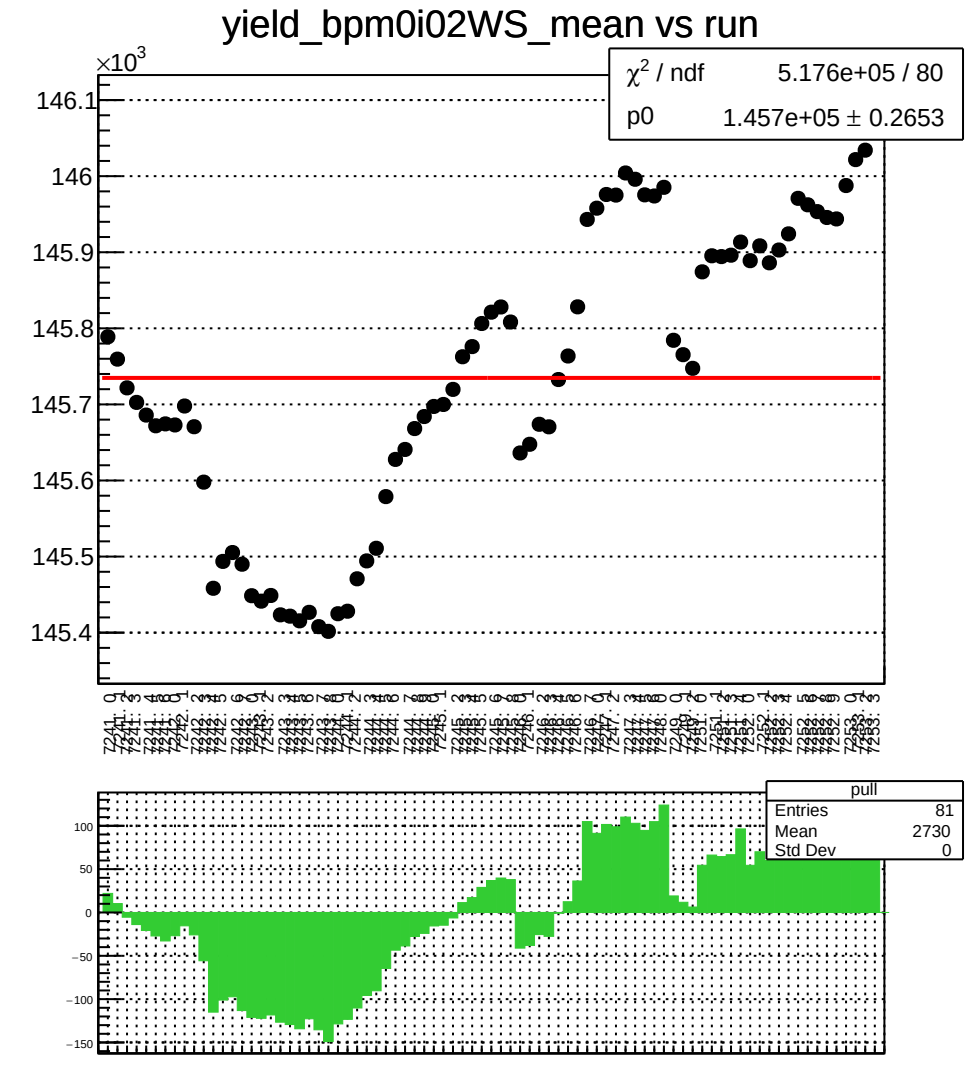

pull1D
Entries 81
Mean −1.014
Std Dev 4.369
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

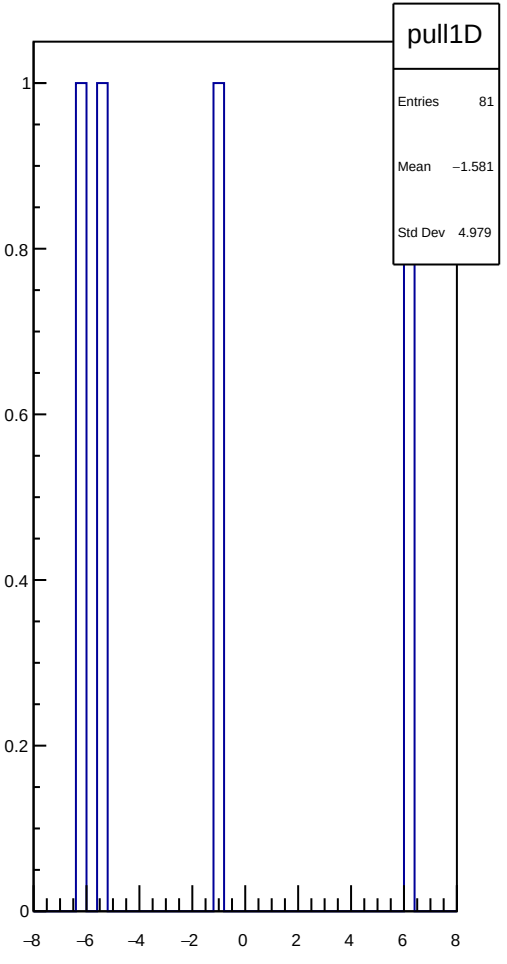

yield_bpm0r03WS_rms vs run
χ² / ndf 3.37e+04 / 80
p0 348.1 ± 0.2828
1000
900
800
700
600
500
400
300

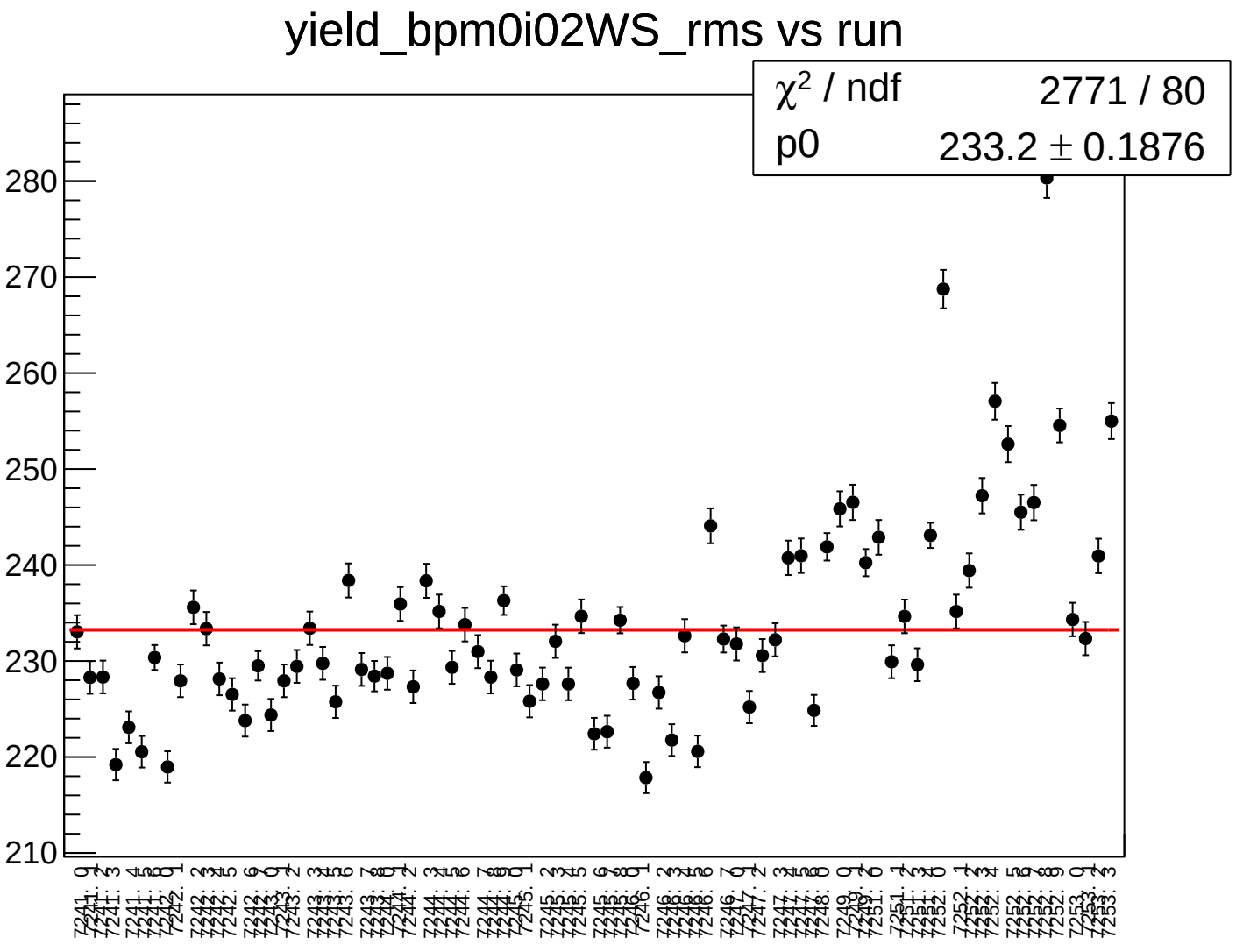

yield_bpm0r05WS_mean vs run
×10^3
137.3
137.2
137.1
137
136.9
136.8
136.7
χ² / ndf 2.146e+05 / 80
p0 1.37e+05 ± 0.2886
pull
Entries 81
Mean 413.5
Std Dev 0
100
50
0
−50
−100

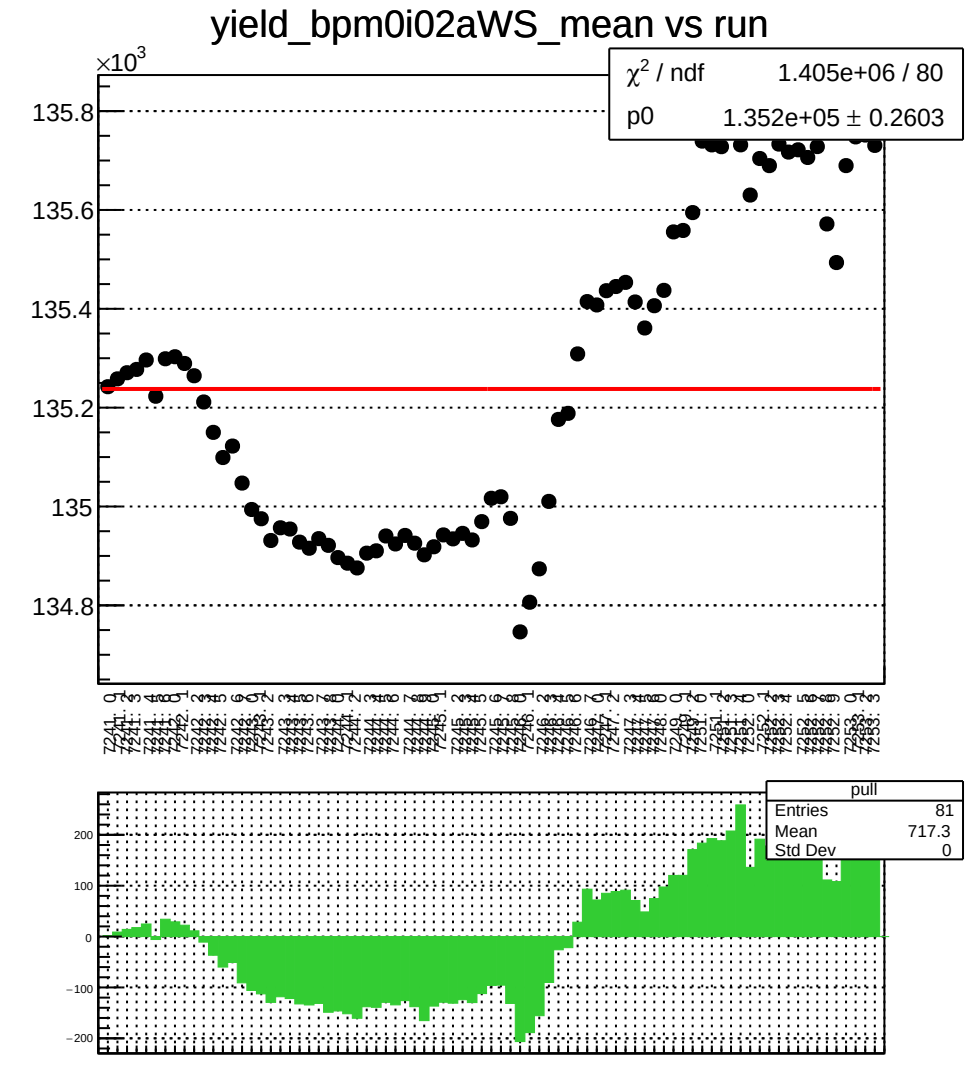

pull1D
Entries 81
Mean −0.2065
Std Dev 4.319
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

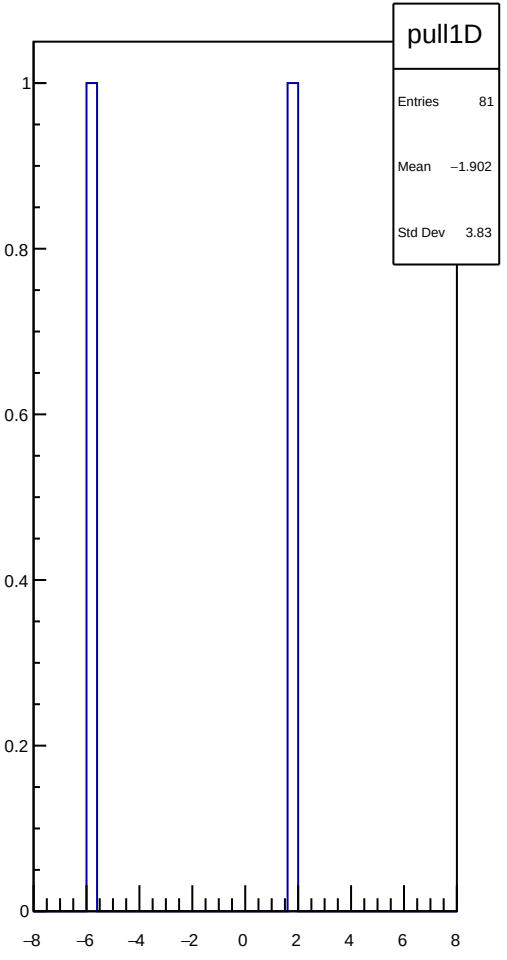

yield_bpm0r05WS_rms vs run
χ² / ndf 1.891e+04 / 80
p0 252.5 ± 0.2041
420
400
380
360
340
320
300
280
260
240
220

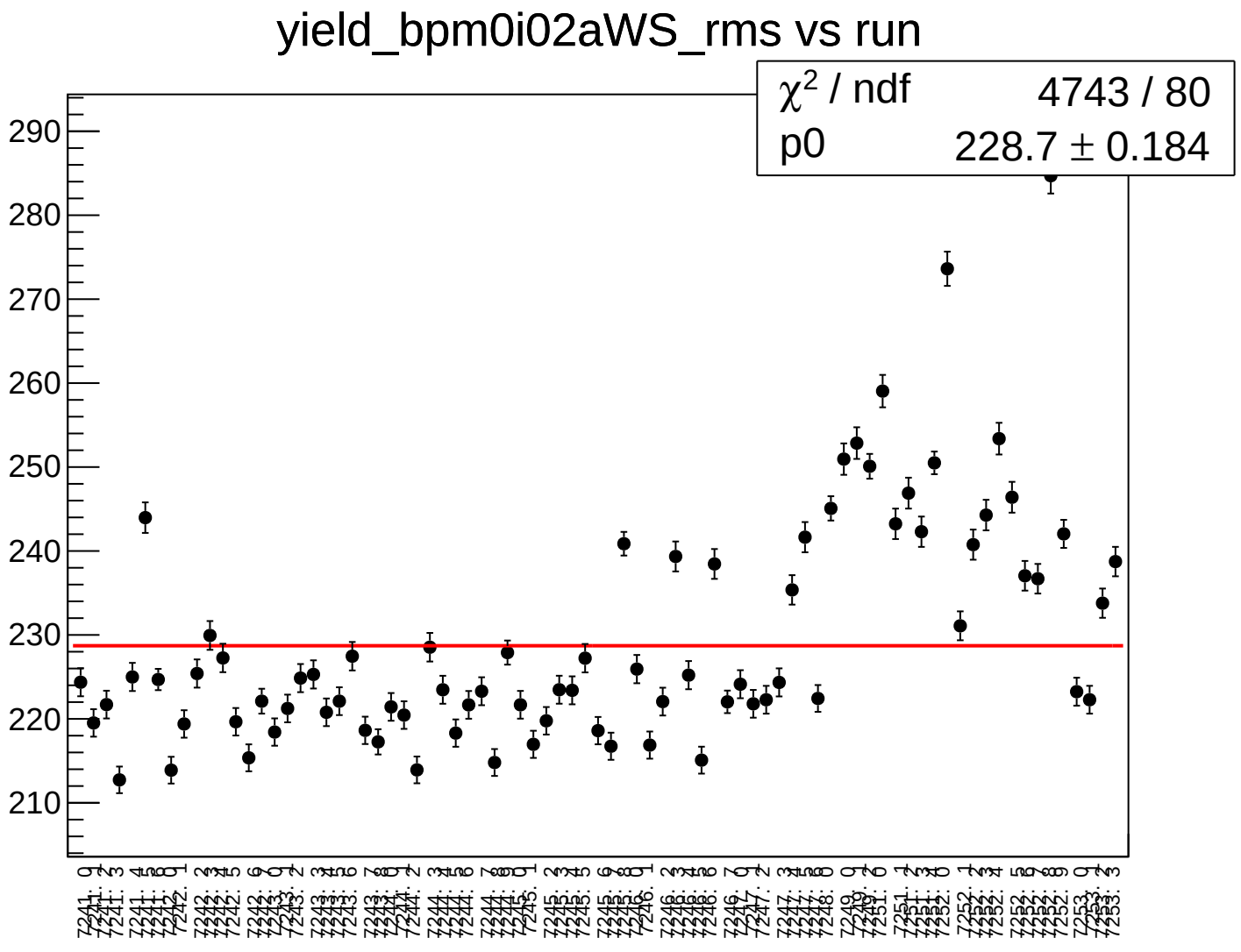

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 5.176e+05 / 80
p0 1.457e+05 ± 0.2653
146.1
146
145.9
145.8
145.7
145.6
145.5
145.4
pull
Entries 81
Mean 2730
Std Dev 0
100
50
0
−50
−100
−150

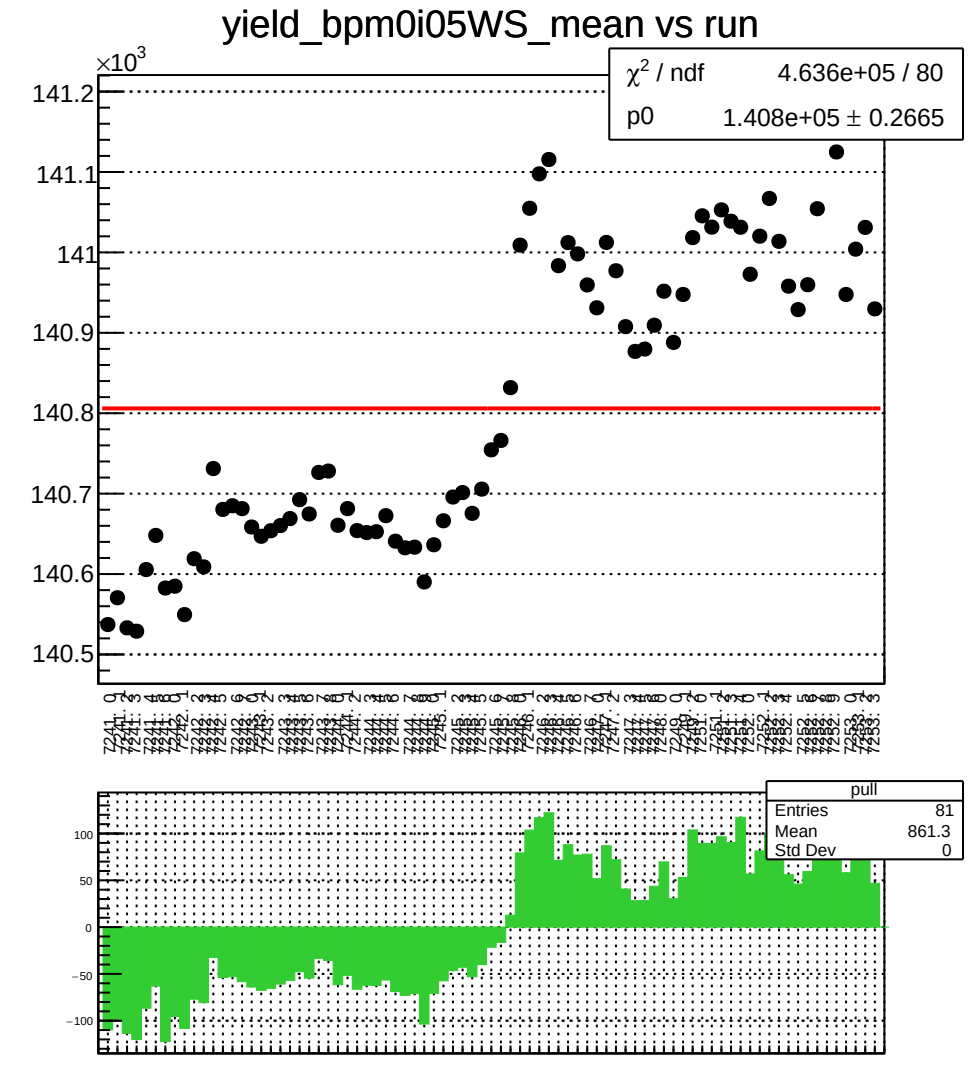

pull1D
Entries 81
Mean −1.581
Std Dev 4.979
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

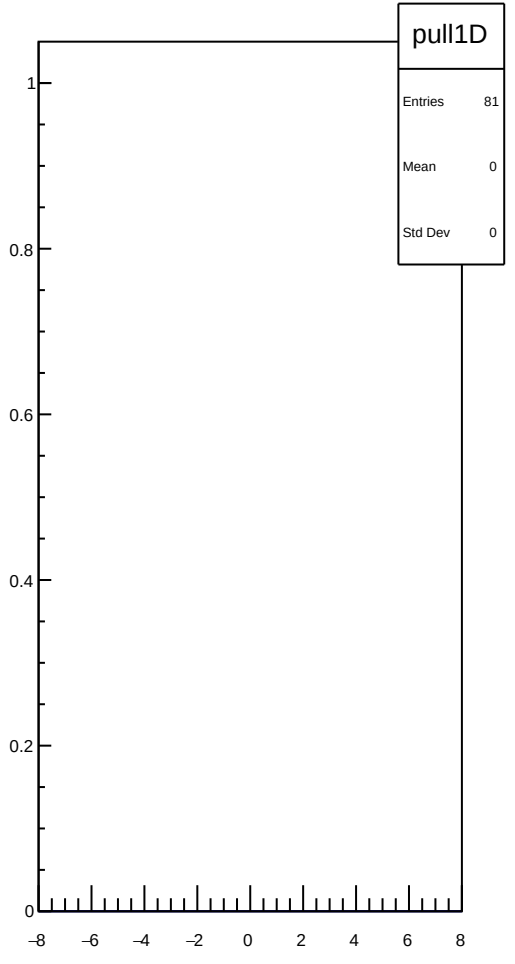

yield_bpm0i02WS_rms vs run
χ² / ndf 2771 / 80
p0 233.2 ± 0.1876
280
270
260
250
240
230
220
210

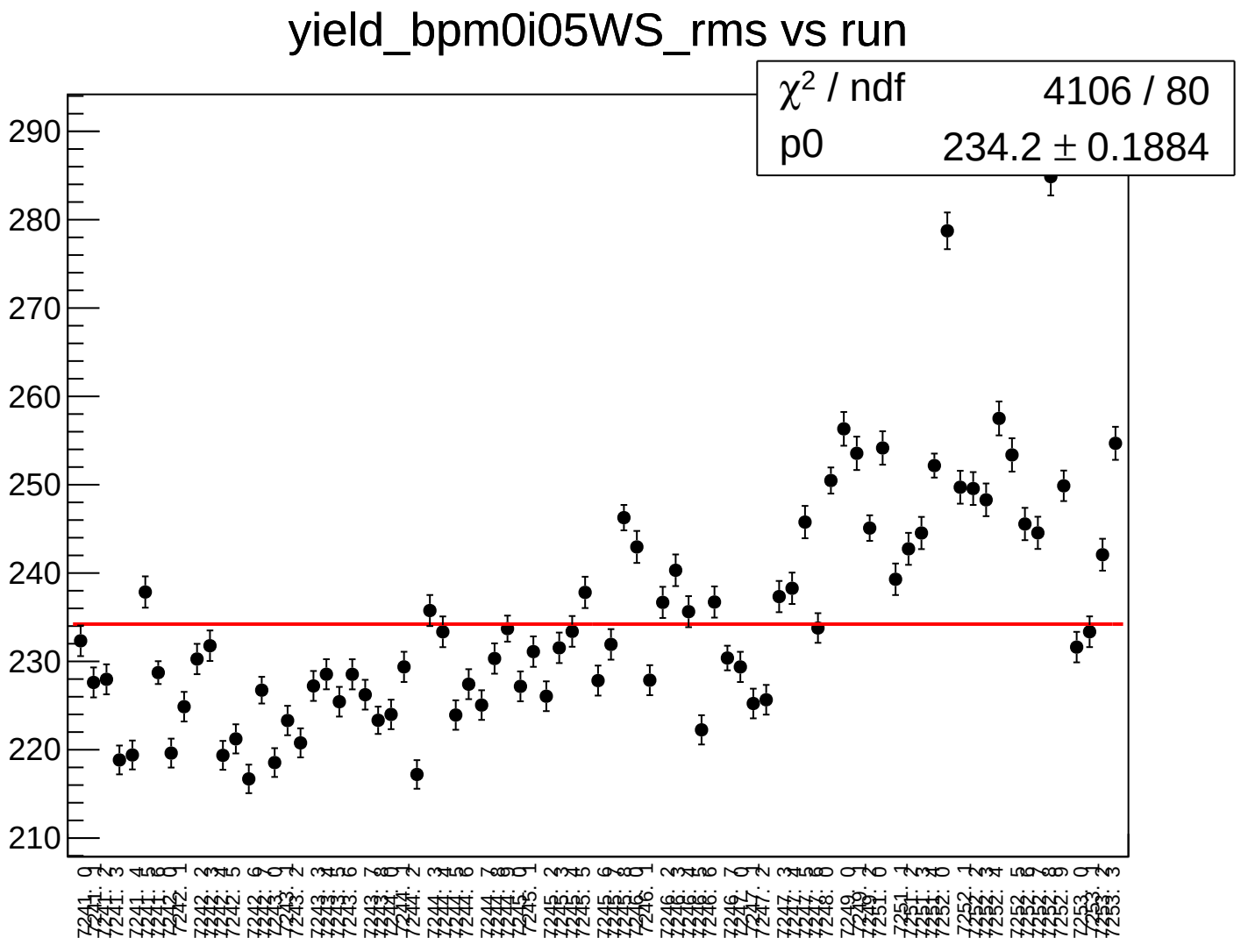

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 1.405e+06 / 80
p0 1.352e+05 ± 0.2603
135.8
135.6
135.4
135.2
135
134.8
pull
Entries 81
Mean 717.3
Std Dev 0
200
100
0
−100
−200

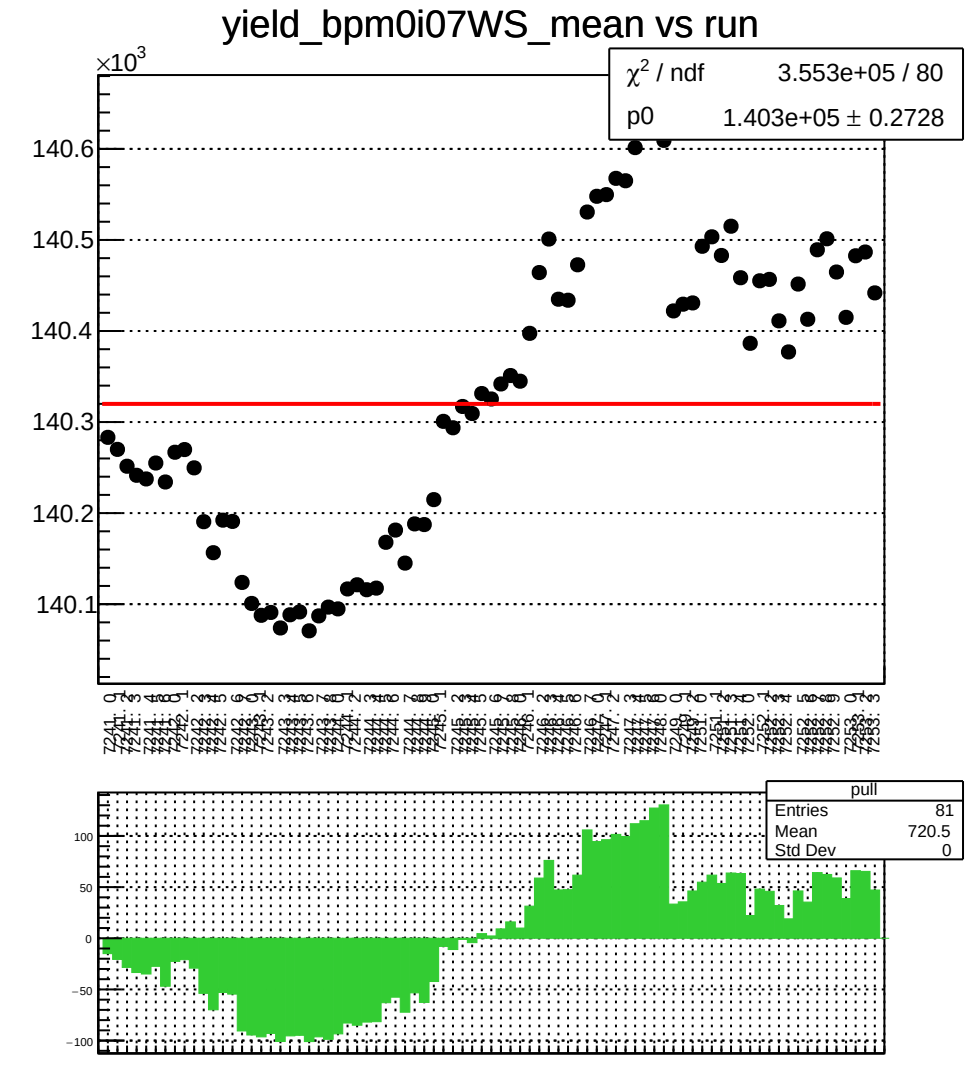

pull1D
Entries 81
Mean −1.902
Std Dev 3.83
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

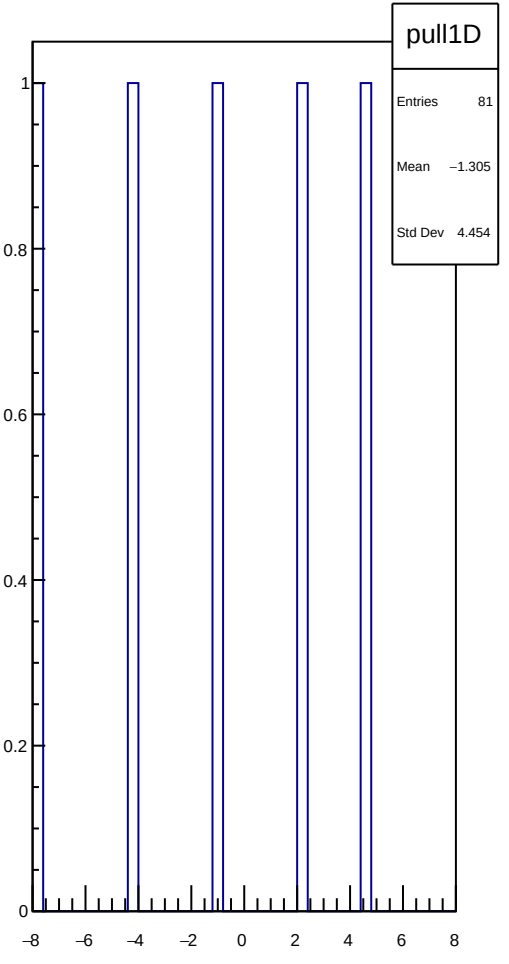

yield_bpm0i02aWS_rms vs run
χ² / ndf 4743 / 80
p0 228.7 ± 0.184
290
280
270
260
250
240
230
220
210

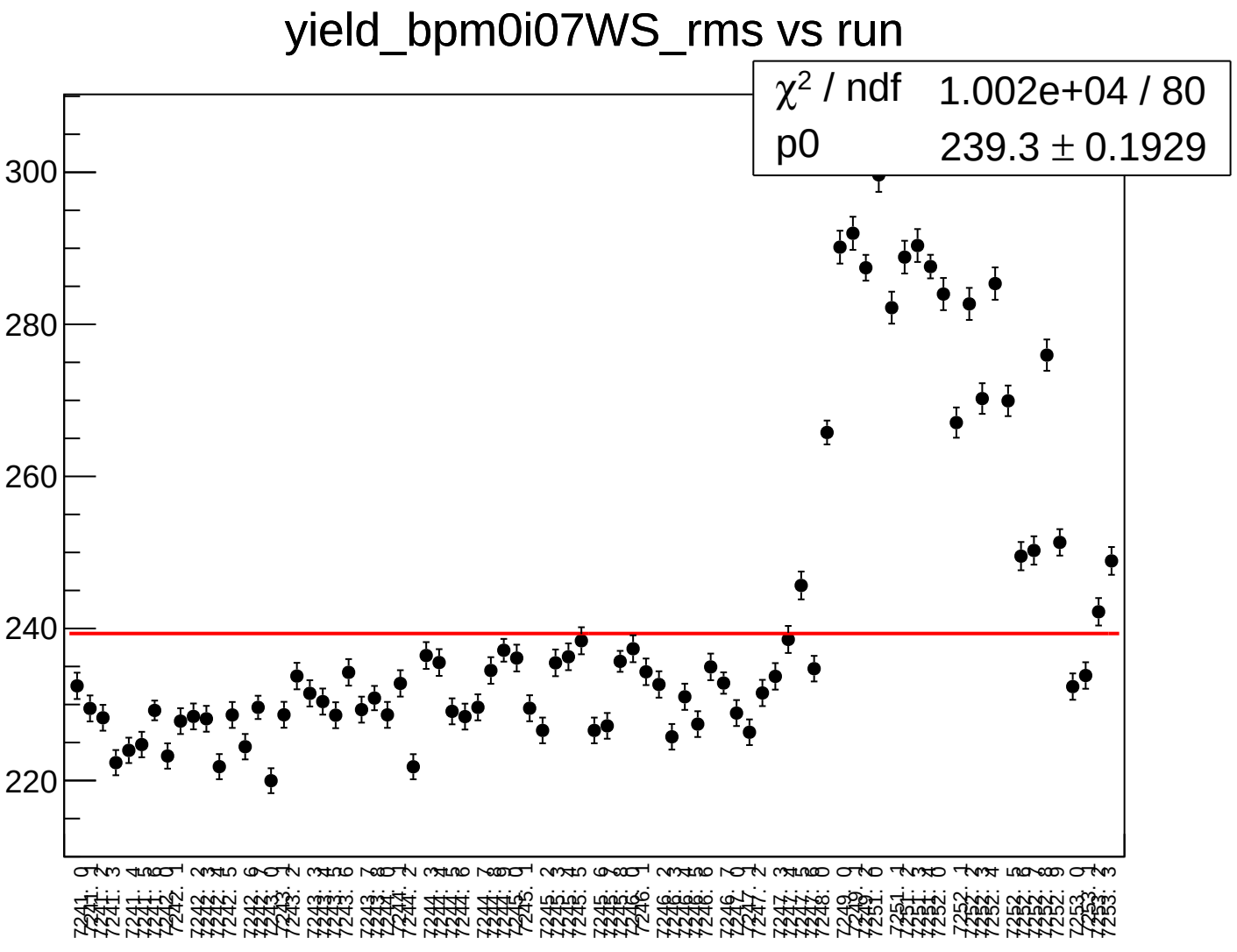

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 4.636e+05 / 80
p0 1.408e+05 ± 0.2665
141.2
141.1
141
140.9
140.8
140.7
140.6
140.5
pull
Entries 81
Mean 861.3
Std Dev 0
100
50
0
−50
−100

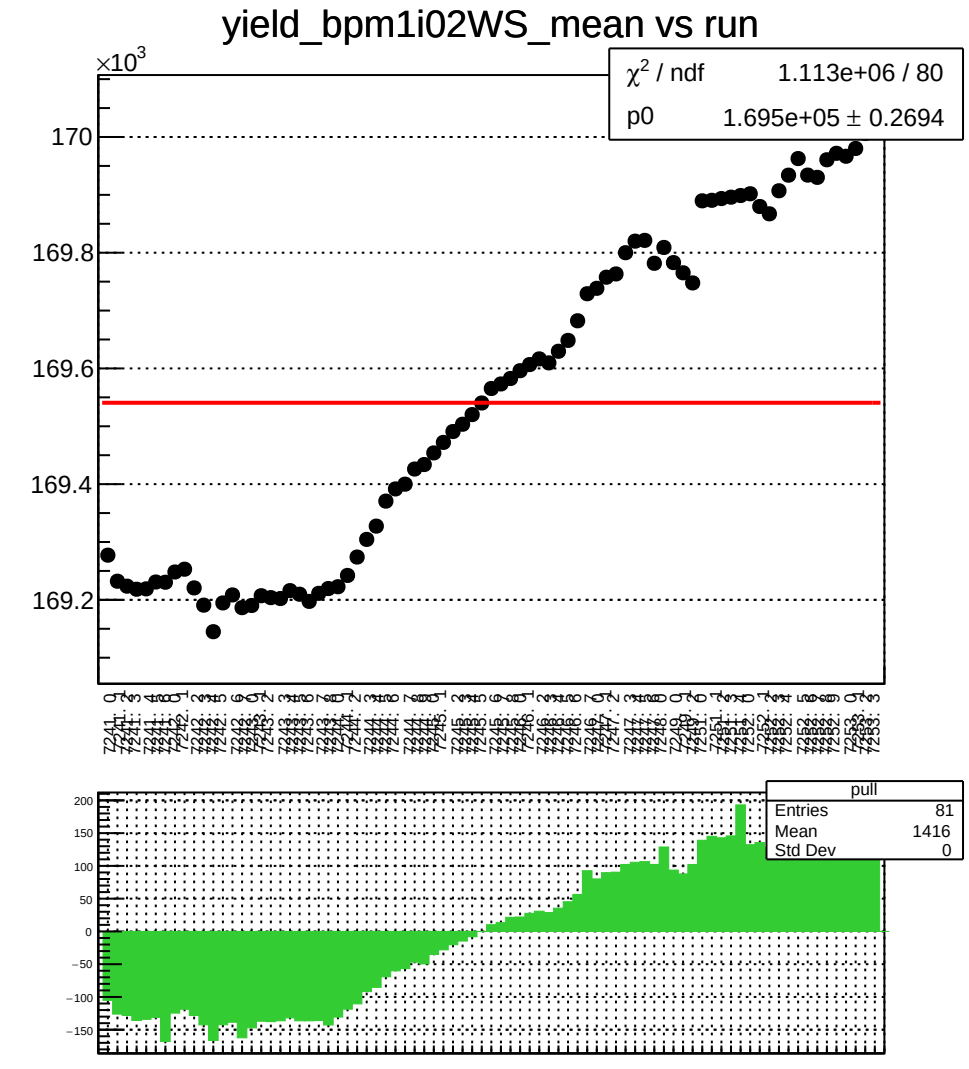

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

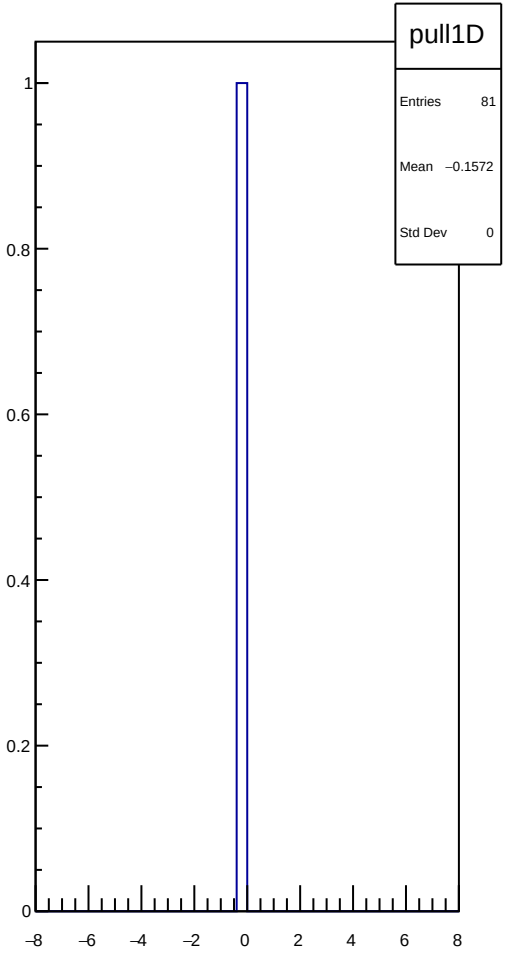

yield_bpm0i05WS_rms vs run
χ² / ndf 4106 / 80
p0 234.2 ± 0.1884
290
280
270
260
250
240
230
220
210

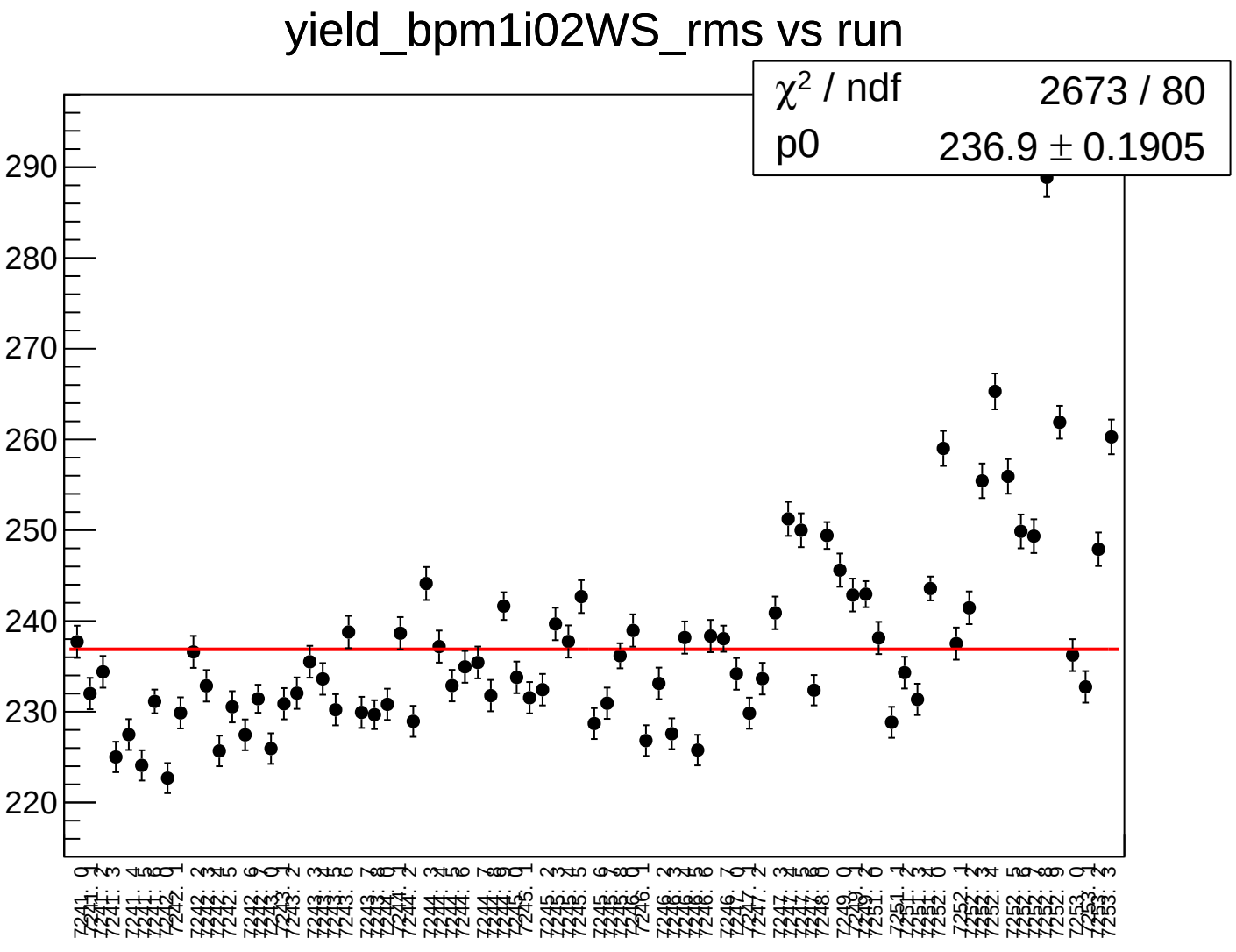

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 3.553e+05 / 80
p0 1.403e+05 ± 0.2728
140.6
140.5
140.4
140.3
140.2
140.1
pull
Entries 81
Mean 720.5
Std Dev 0
100
50
0
−50
−100

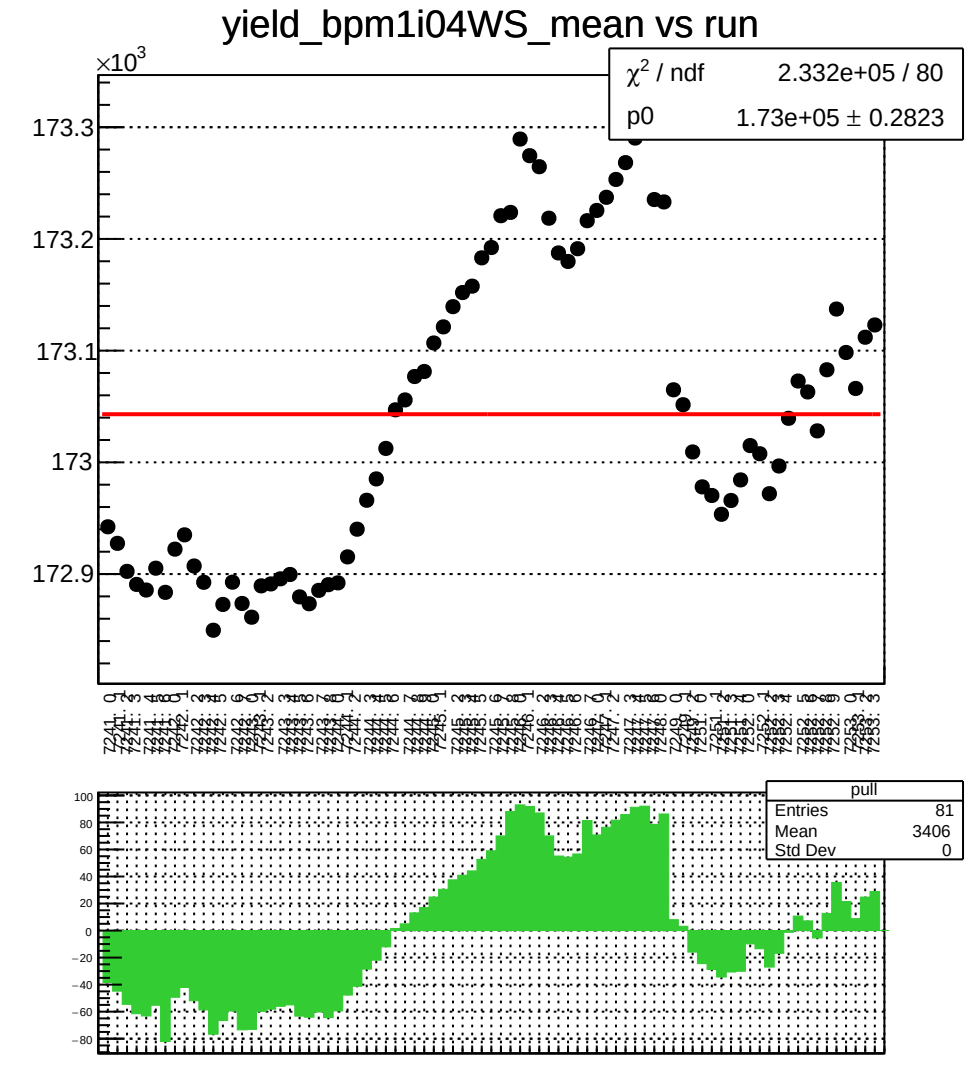

pull1D
Entries 81
Mean −1.305
Std Dev 4.454
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

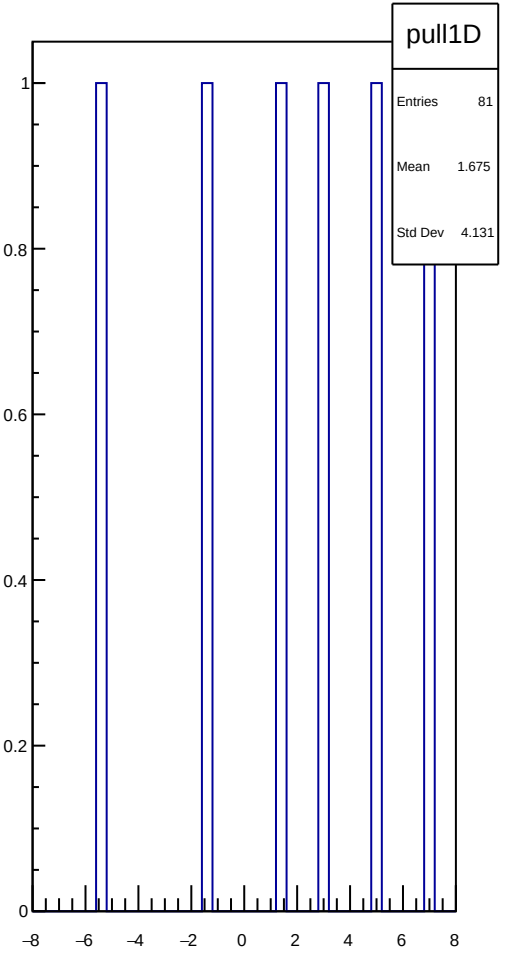

yield_bpm0i07WS_rms vs run
χ² / ndf 1.002e+04 / 80
p0 239.3 ± 0.1929
300
280
260
240
220

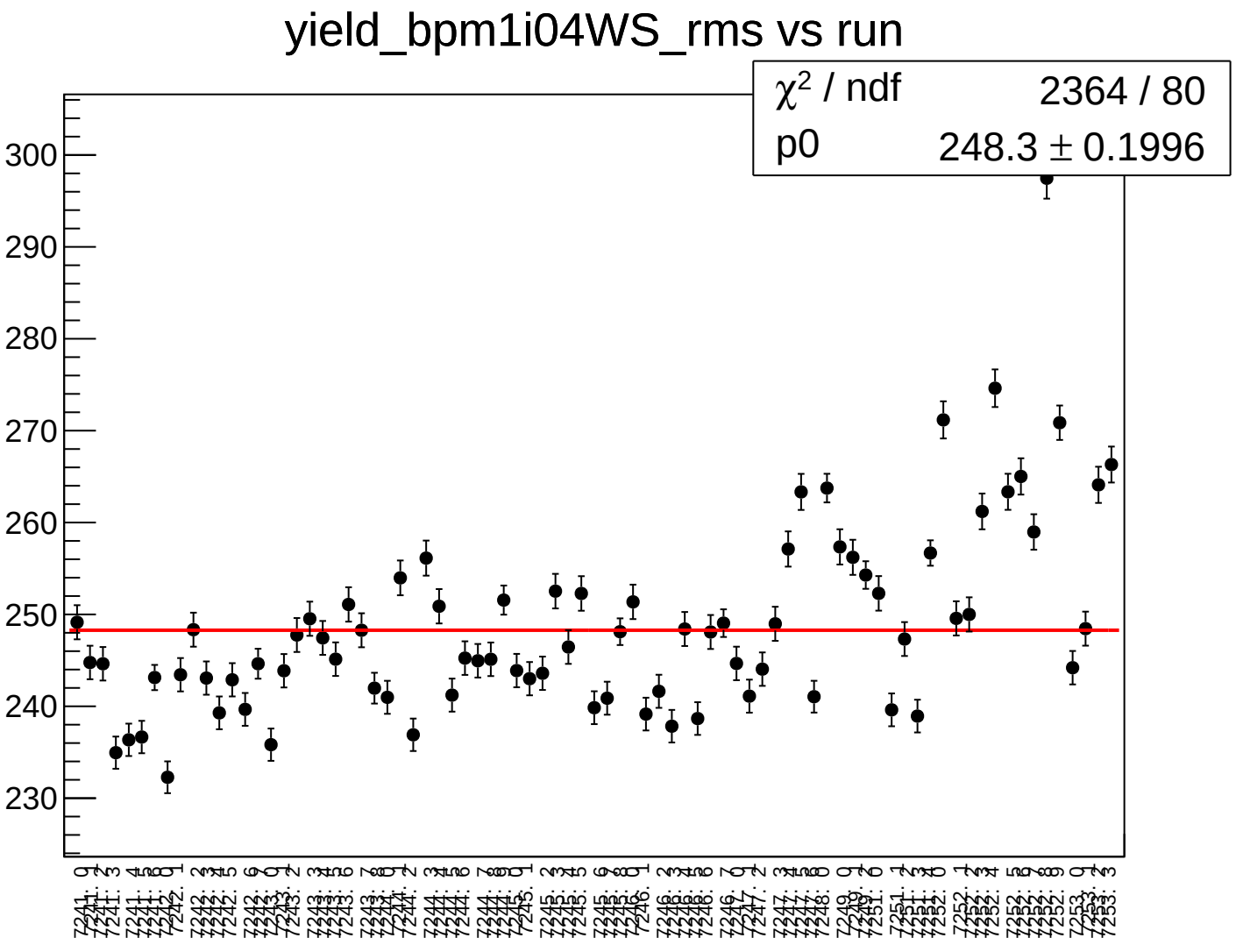

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 1.113e+06 / 80
p0 1.695e+05 ± 0.2694
170
169.8
169.6
169.4
169.2
pull
Entries 81
Mean 1416
Std Dev 0
200
150
100
50
0
−50
−100
−150

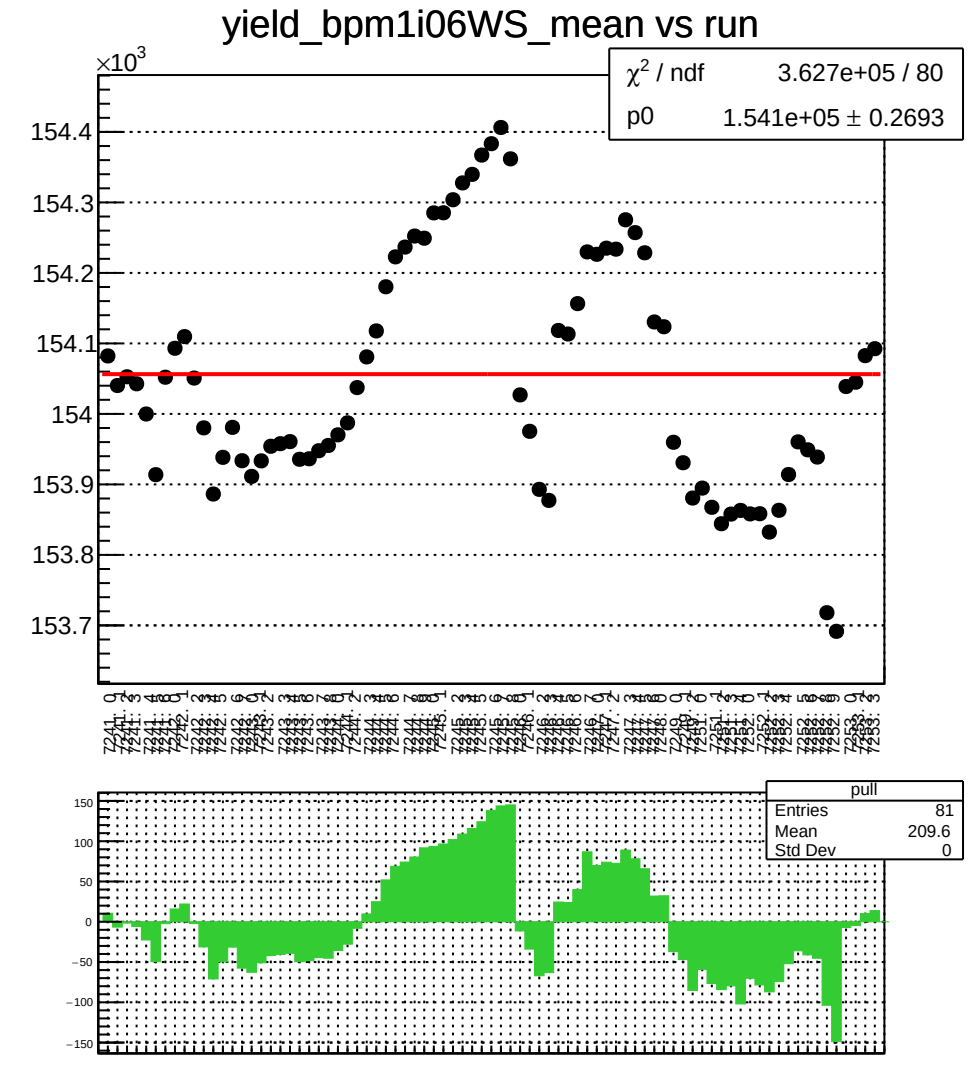

pull1D
Entries 81
Mean −0.1572
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

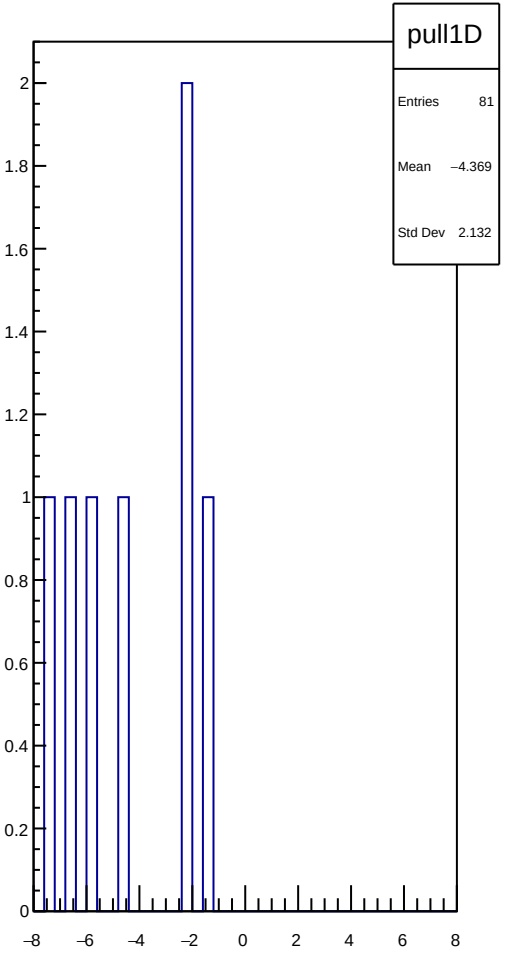

yield_bpm1i02WS_rms vs run
χ² / ndf 2673 / 80
p0 236.9 ± 0.1905
290
280
270
260
250
240
230
220

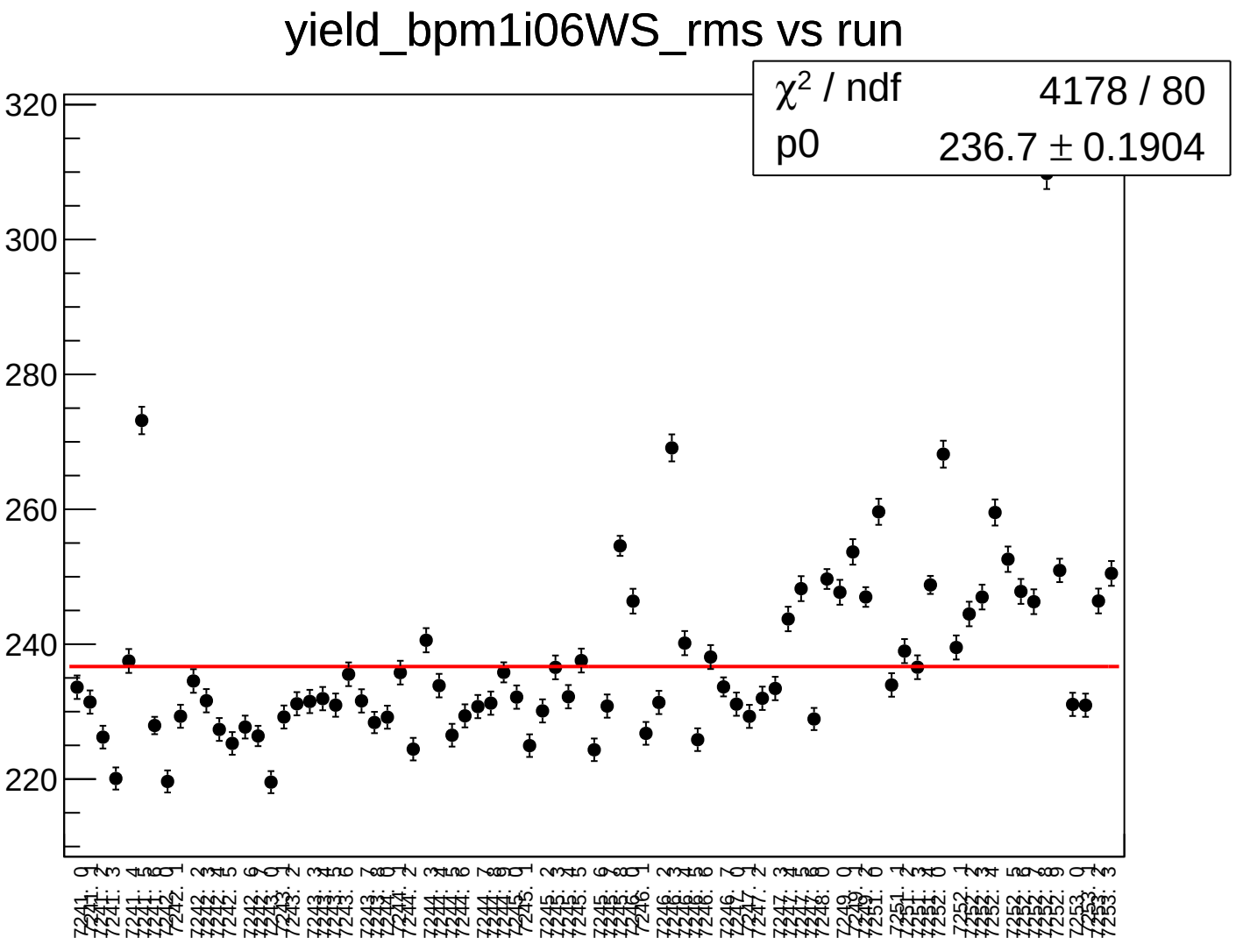

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 2.332e+05 / 80
p0 1.73e+05 ± 0.2823
173.3
173.2
173.1
173
172.9
pull
Entries 81
Mean 3406
Std Dev 0

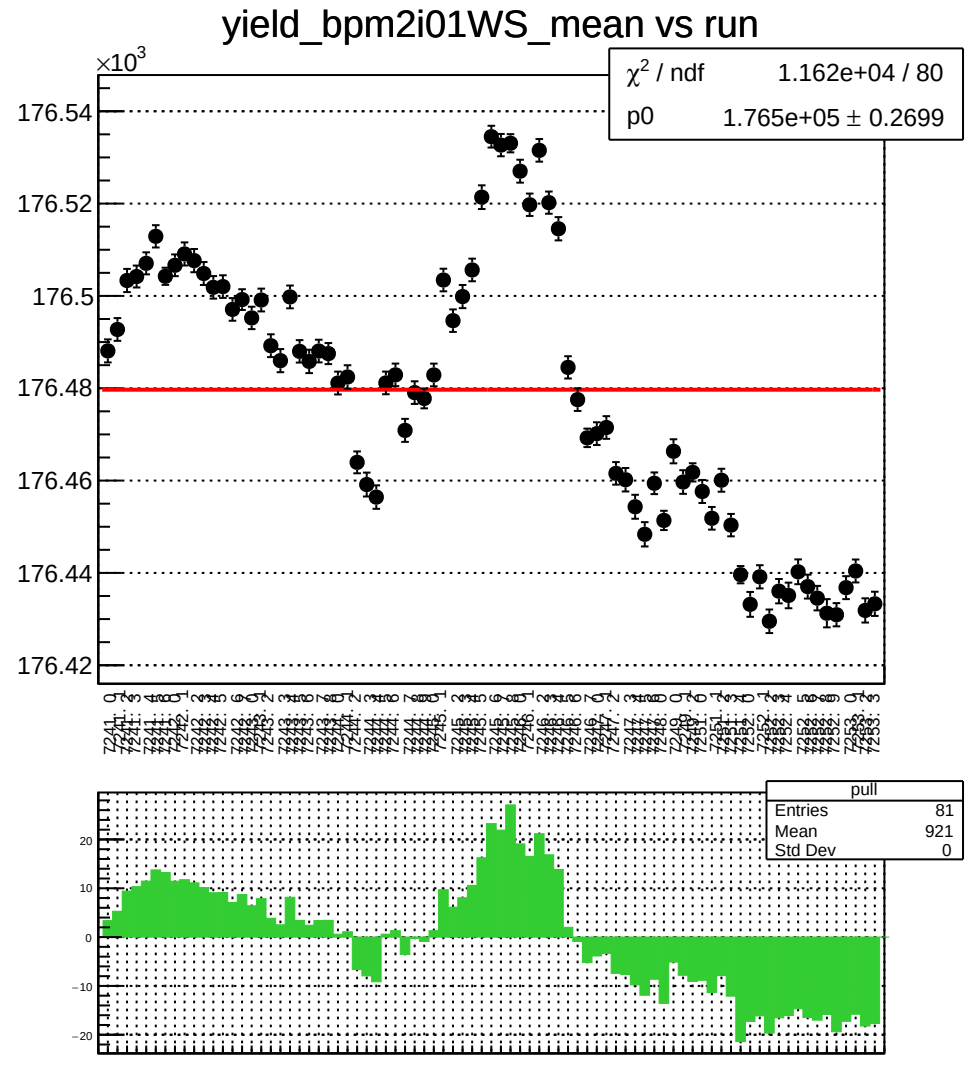

pull1D
Entries 81
Mean 1.675
Std Dev 4.131

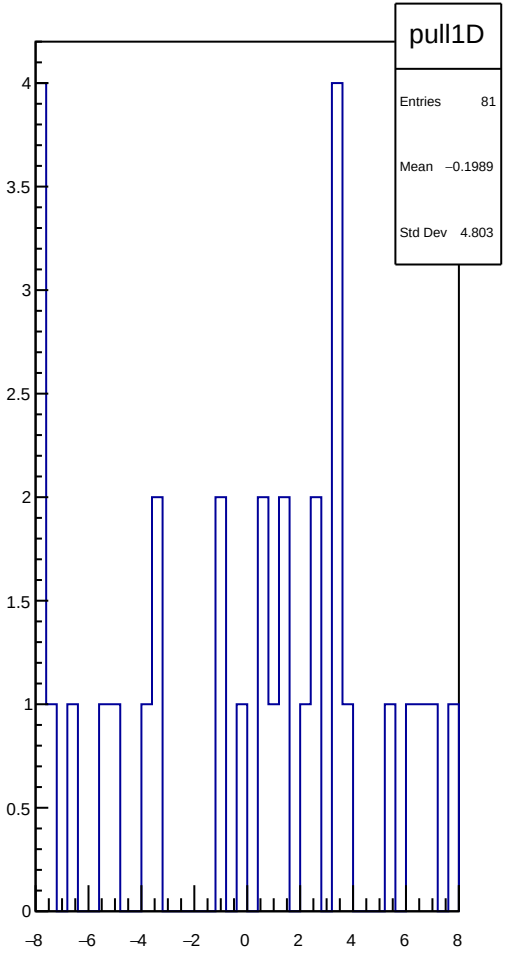

yield_bpm1i04WS_rms vs run
χ² / ndf 2364 / 80
p0 248.3 ± 0.1996
300
290
280
270
260
250
240
230

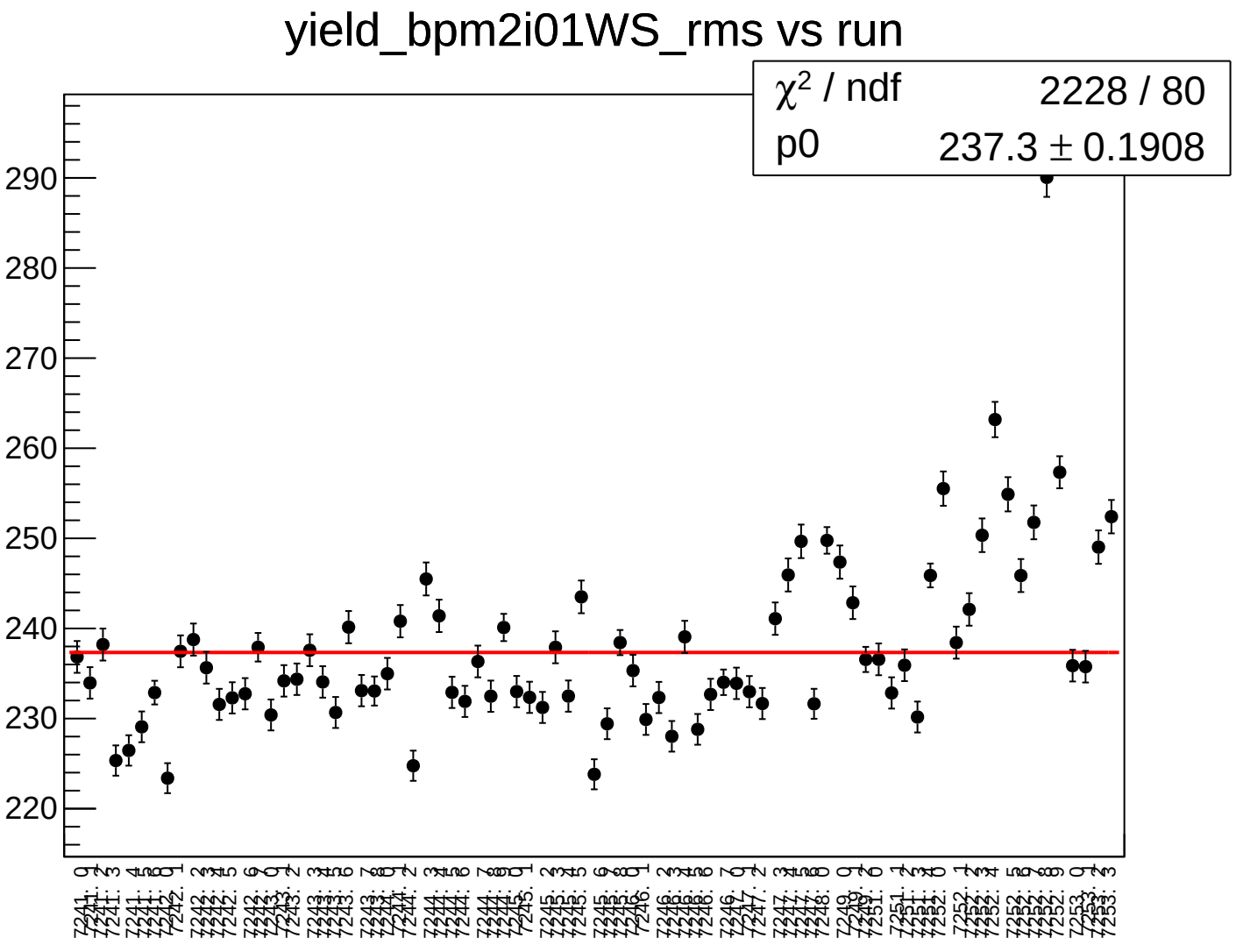

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 3.627e+05 / 80
p0 1.541e+05 ± 0.2693
154.4
154.3
154.2
154.1
154
153.9
153.8
153.7
pull
Entries 81
Mean 209.6
Std Dev 0
150
100
50
0
−50
−100
−150

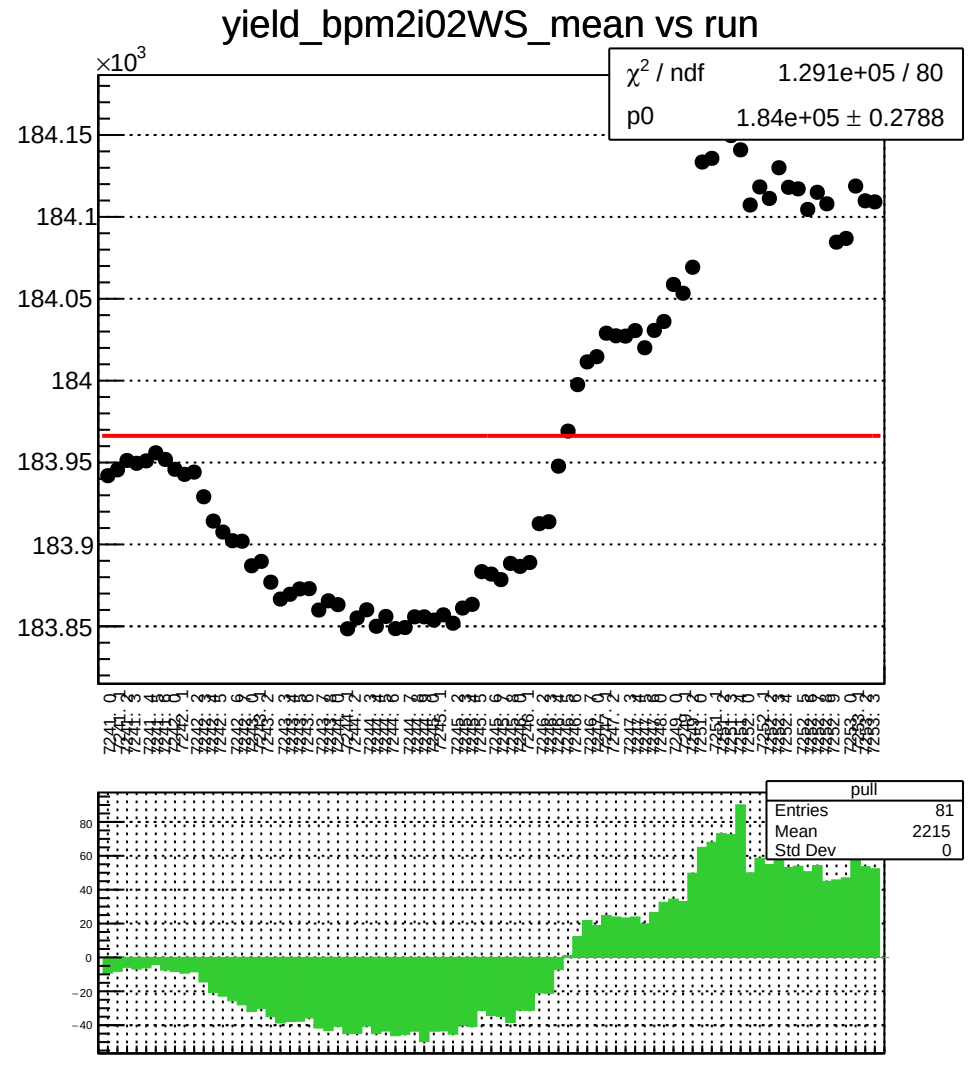

pull1D
Entries 81
Mean −4.369
Std Dev 2.132
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

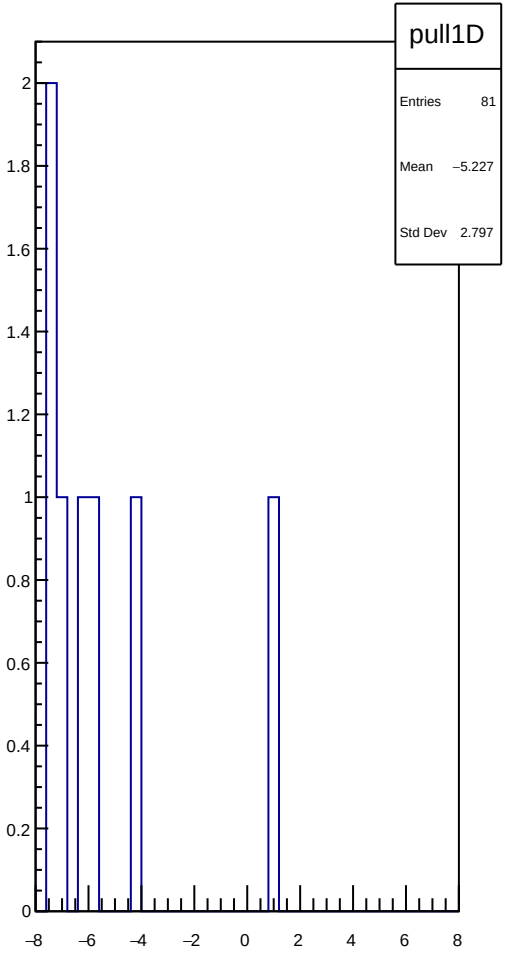

yield_bpm1i06WS_rms vs run
χ² / ndf 4178 / 80
p0 236.7 ± 0.1904
320
300
280
260
240
220

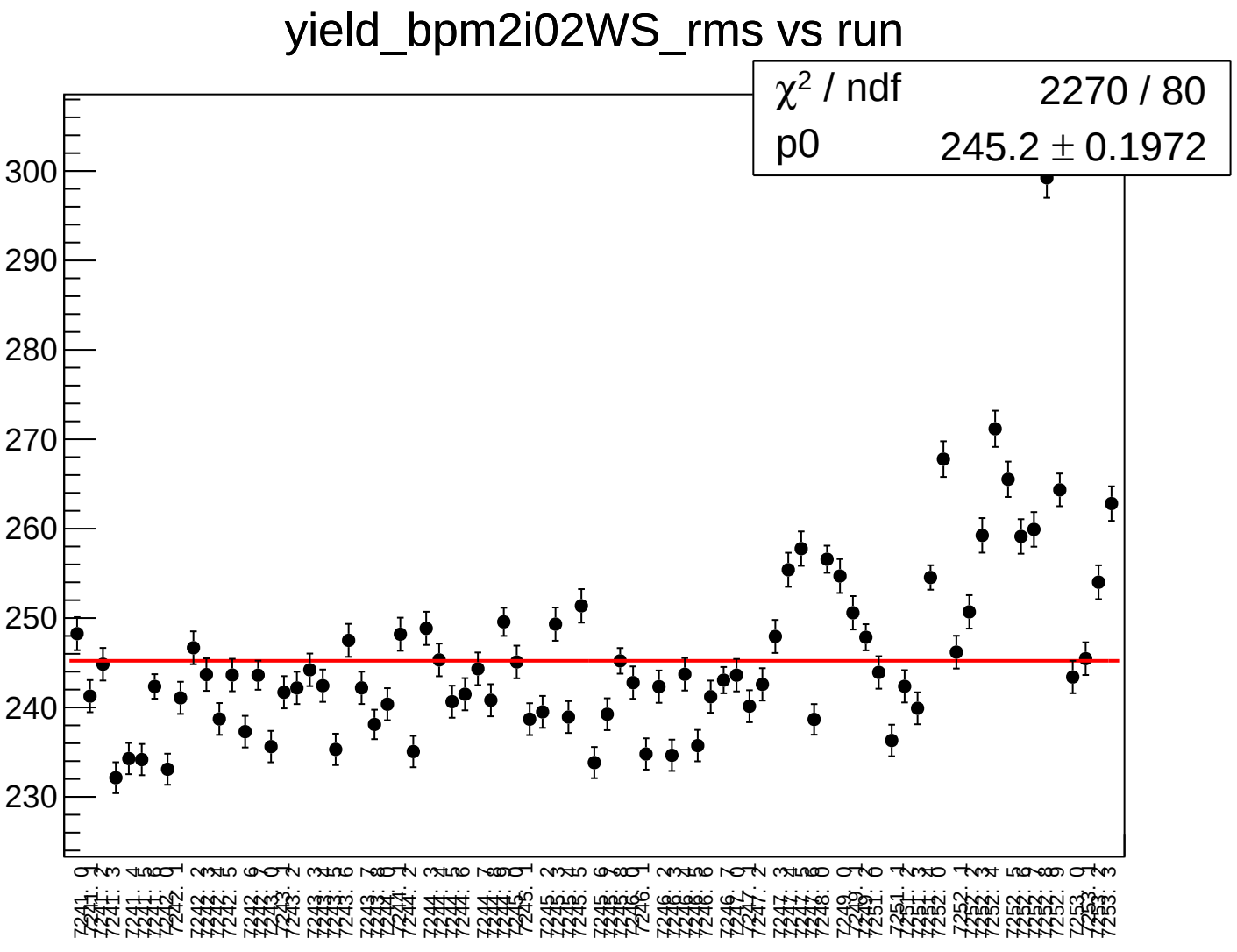

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 1.162e+04 / 80
p0 1.765e+05 ± 0.2699
176.54
176.52
176.5
176.48
176.46
176.44
176.42
pull
Entries 81
Mean 921
Std Dev 0
20
10
0
−10
−20

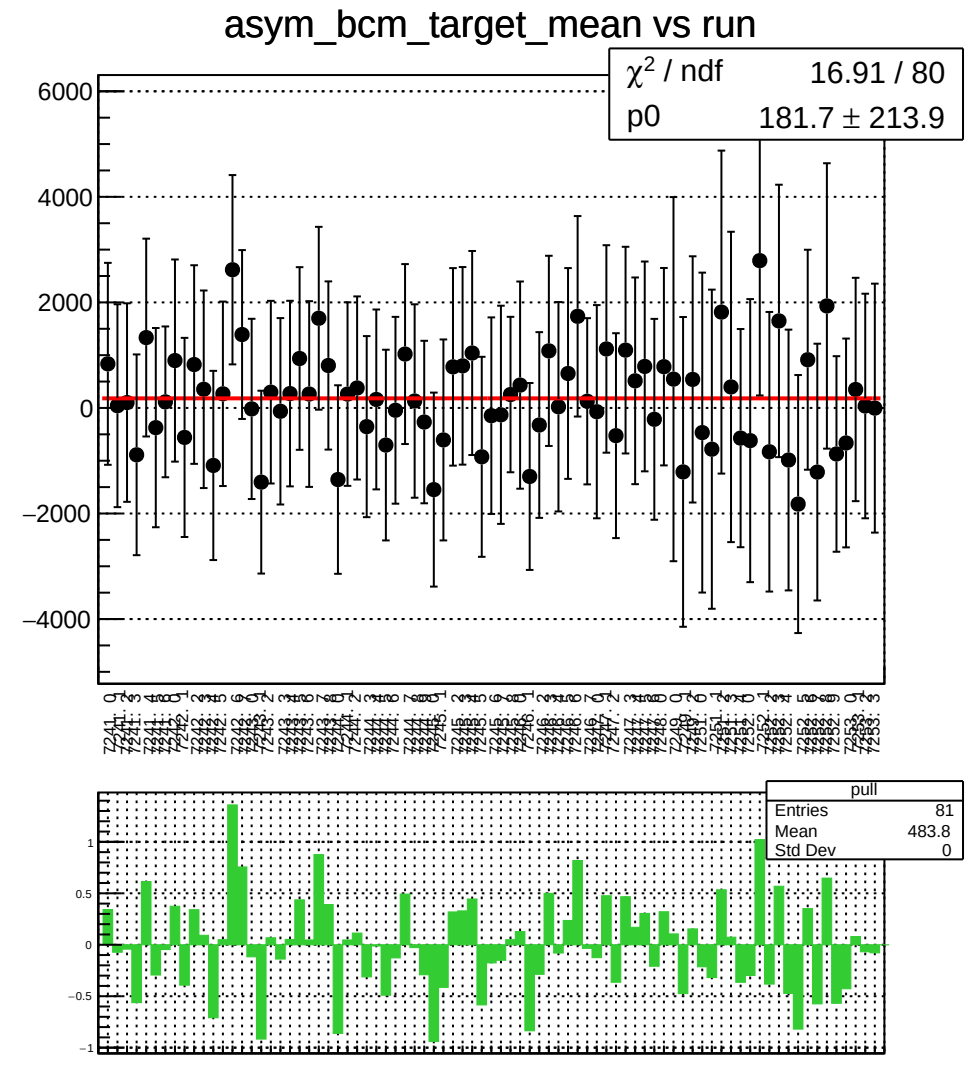

pull1D
Entries 81
Mean −0.1989
Std Dev 4.803
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

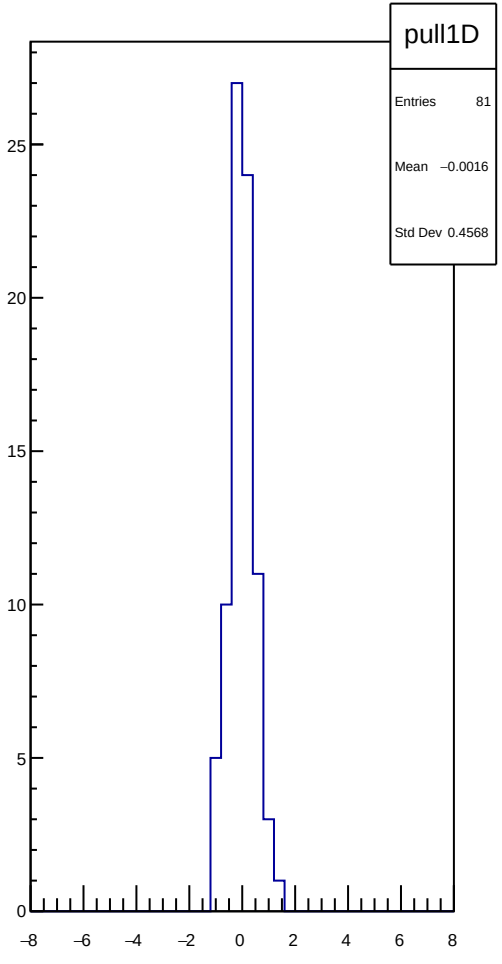

yield_bpm2i01WS_rms vs run
χ² / ndf 2228 / 80
p0 237.3 ± 0.1908
290
280
270
260
250
240
230
220

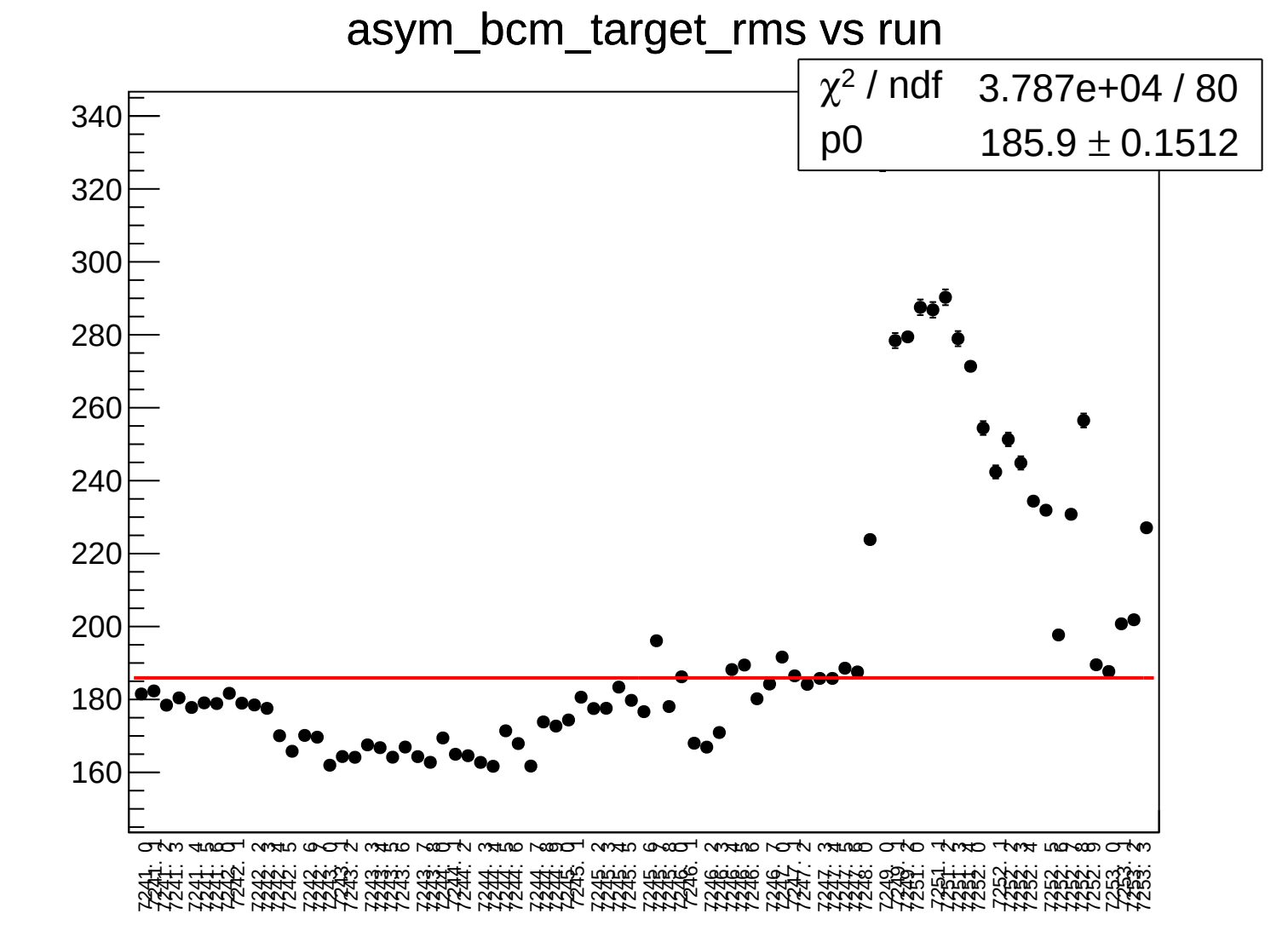

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 1.291e+05 / 80
p0 1.84e+05 ± 0.2788
184.15
184.1
184.05
184
183.95
183.9
183.85
pull
Entries 81
Mean 2215
Std Dev 0
80
60
40
20
0
−20
−40

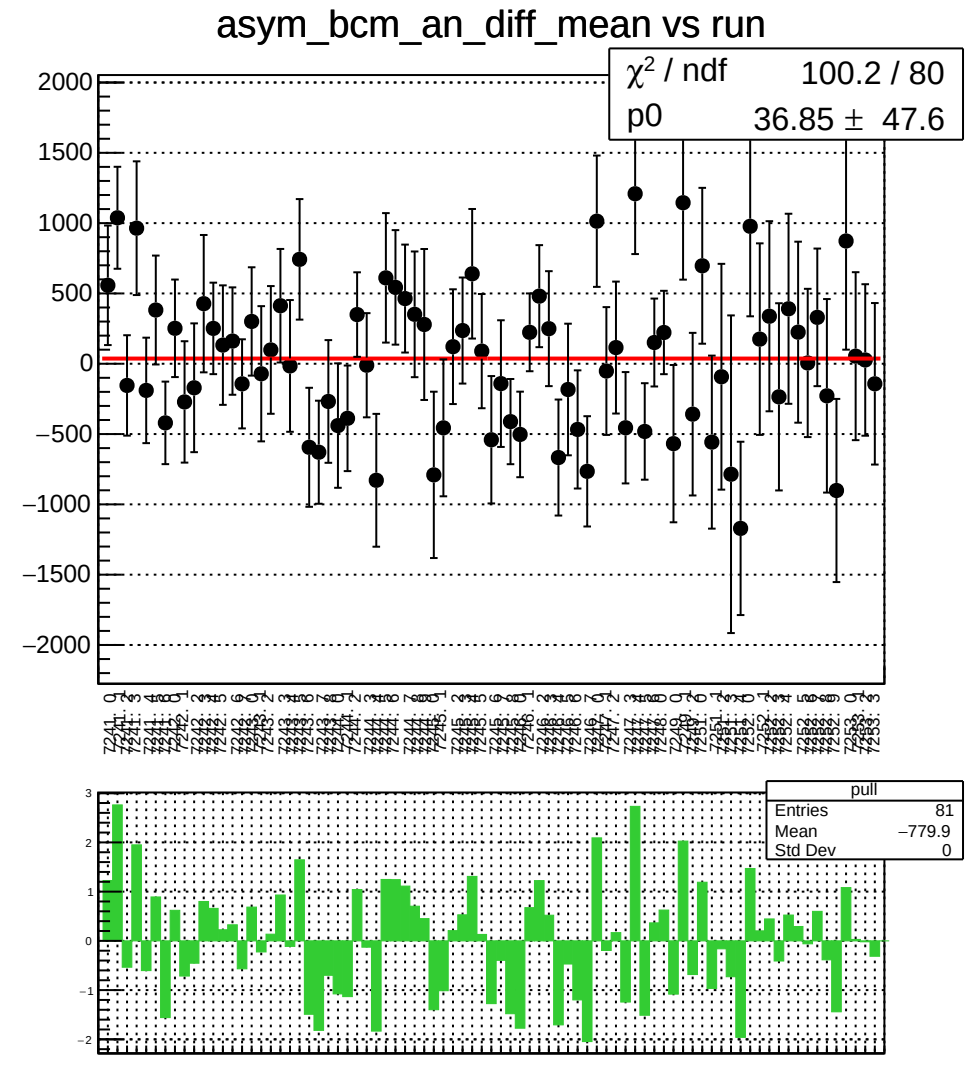

pull1D
Entries 81
Mean −5.227
Std Dev 2.797
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

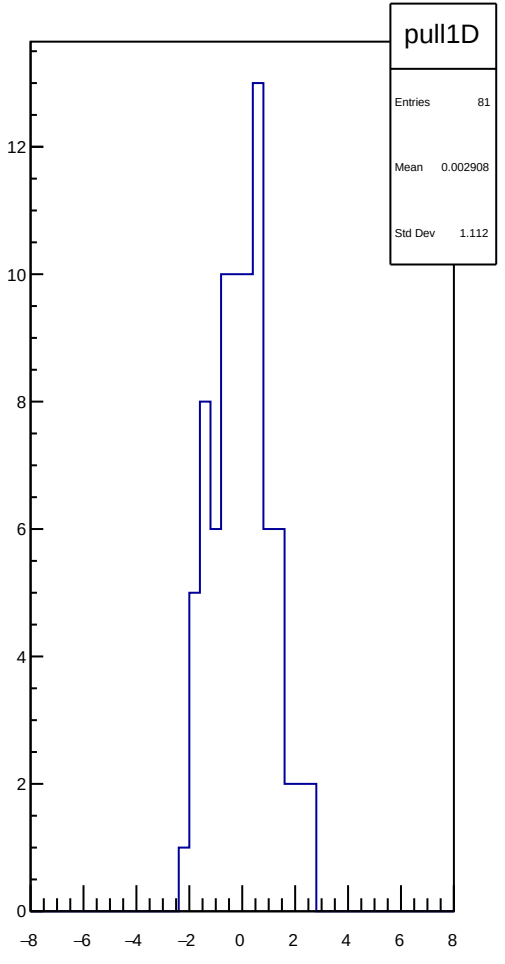

yield_bpm2i02WS_rms vs run
χ² / ndf 2270 / 80
p0 245.2 ± 0.1972
300
290
280
270
260
250
240
230

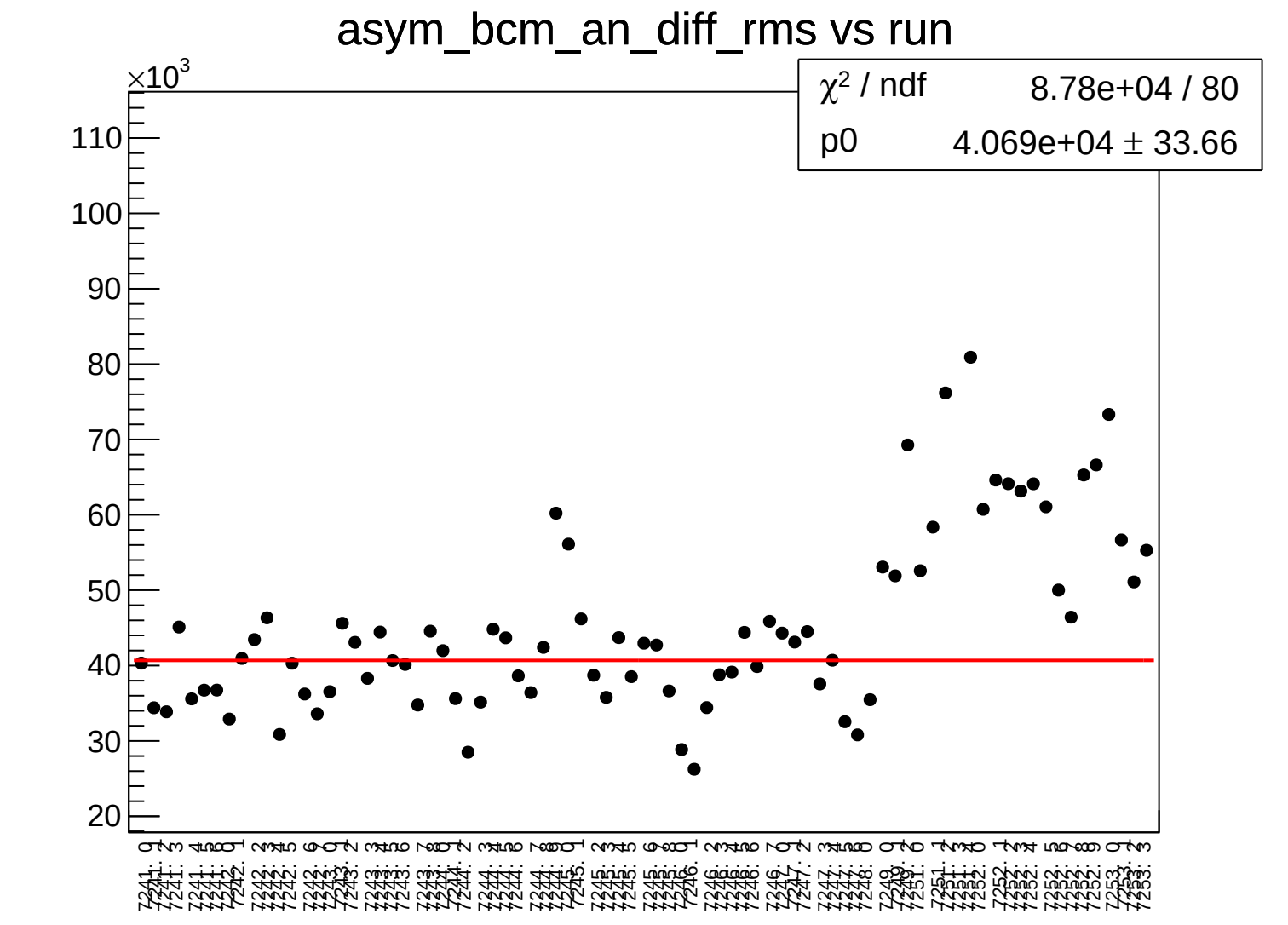

asym_bcm_target_mean vs run
χ² / ndf 16.91 / 80
p0 181.7 ± 213.9
6000
4000
2000
0
−2000
−4000
pull
Entries 81
Mean 483.8
Std Dev 0
1
0.5
0
−0.5
−1

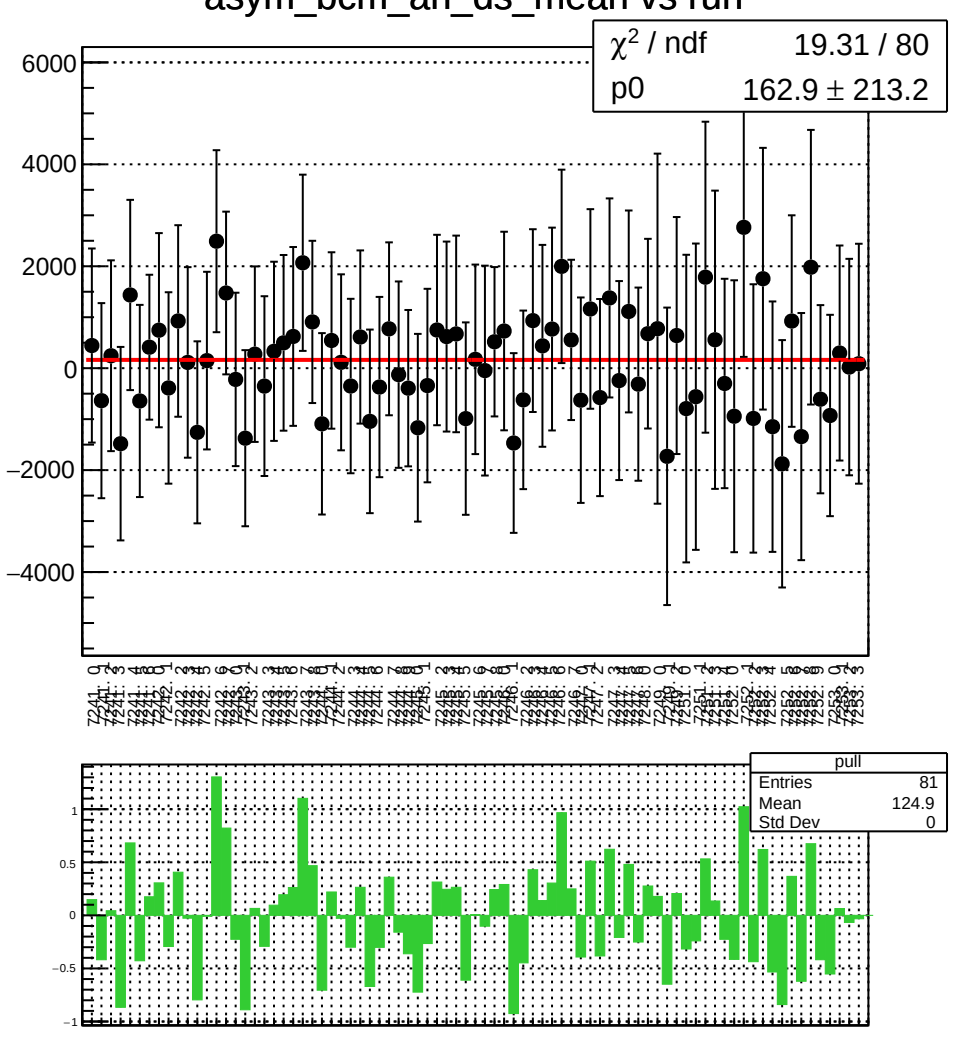

pull1D
Entries 81
Mean −0.0016
Std Dev 0.4568
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

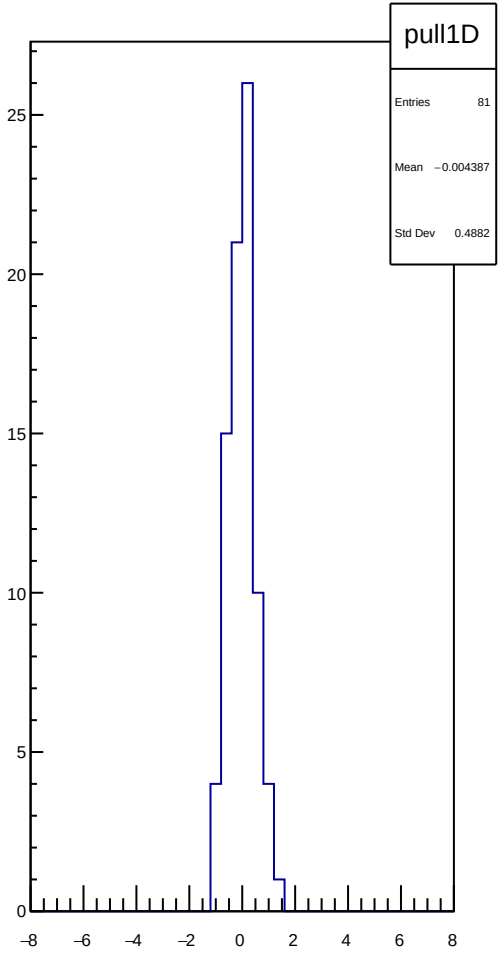

asym_bcm_target_rms vs run
χ² / ndf 3.787e+04 / 80
p0 185.9 ± 0.1512
340
320
300
280
260
240
220
200
180
160

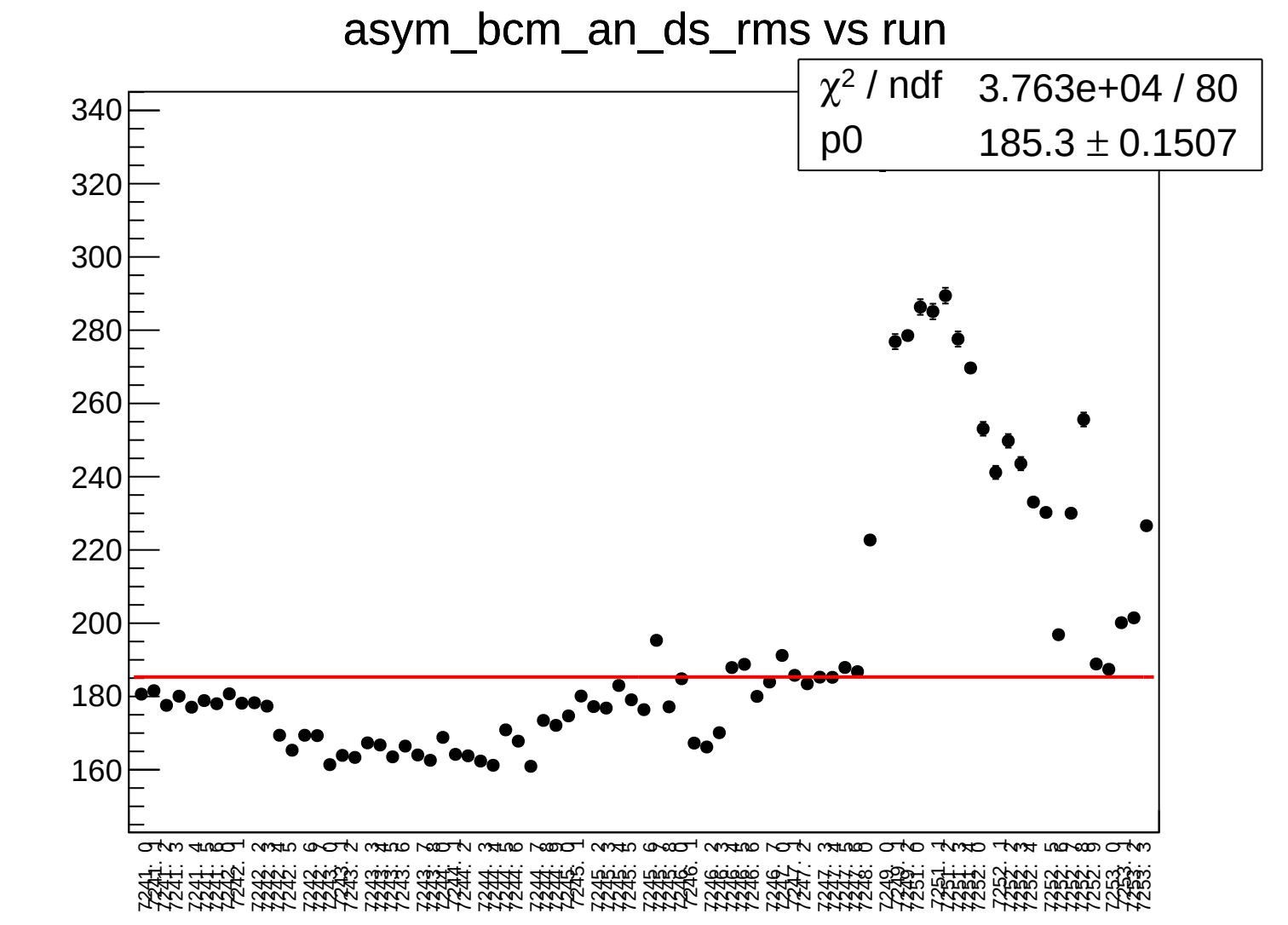

asym_bcm_an_diff_mean vs run
χ² / ndf 100.2 / 80
p0 36.85 ± 47.6
pull
Entries 81
Mean −779.9
Std Dev 0

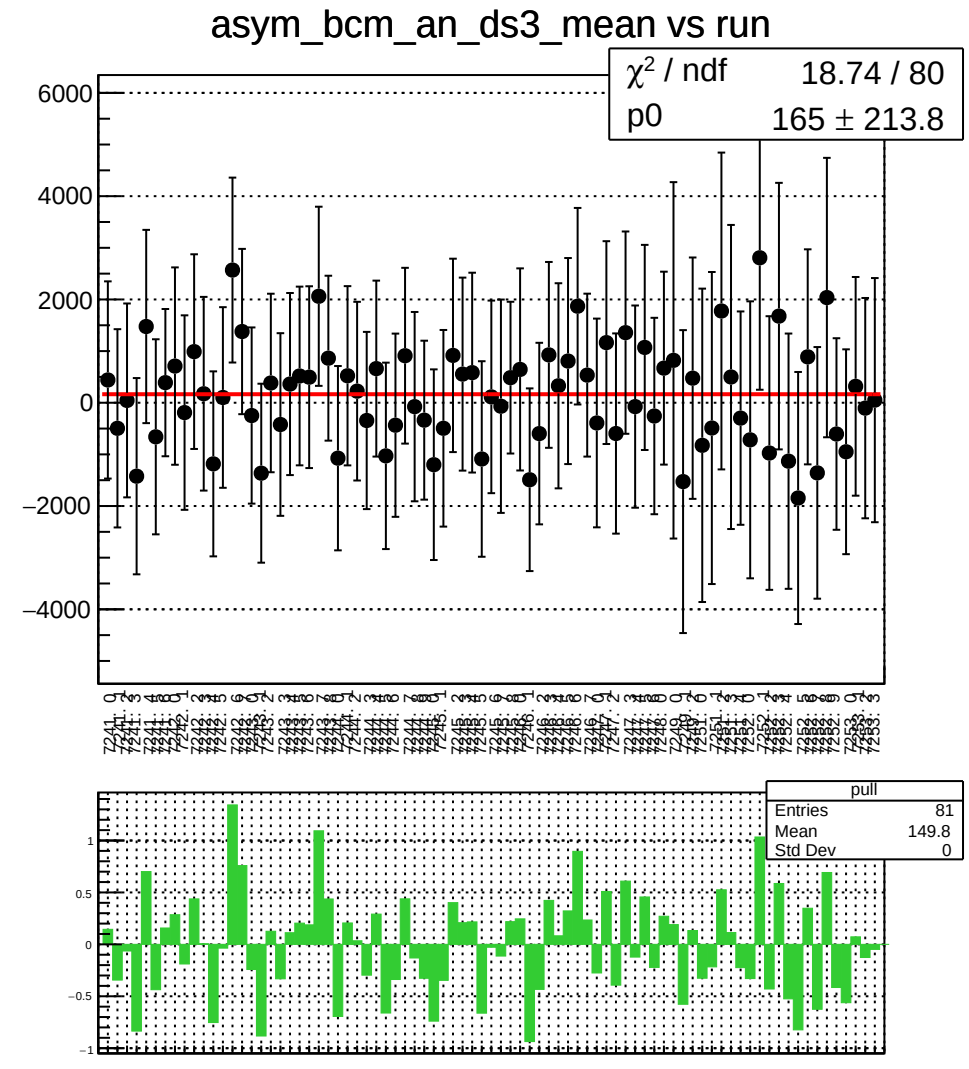

pull1D
Entries 81
Mean 0.002908
Std Dev 1.112

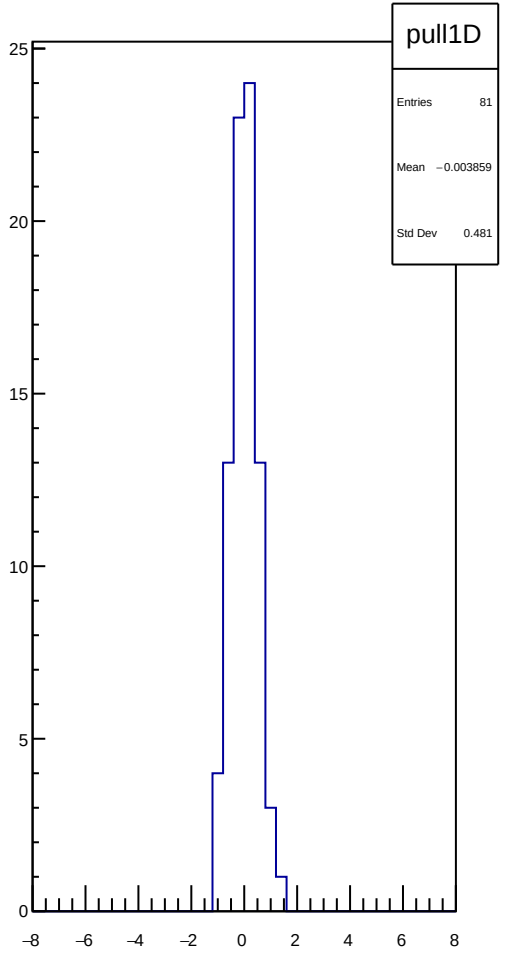

asym_bcm_an_diff_rms vs run
×10^3
110
100
90
80
70
60
50
40
30
20
χ² / ndf 8.78e+04 / 80
p0 4.069e+04 ± 33.66

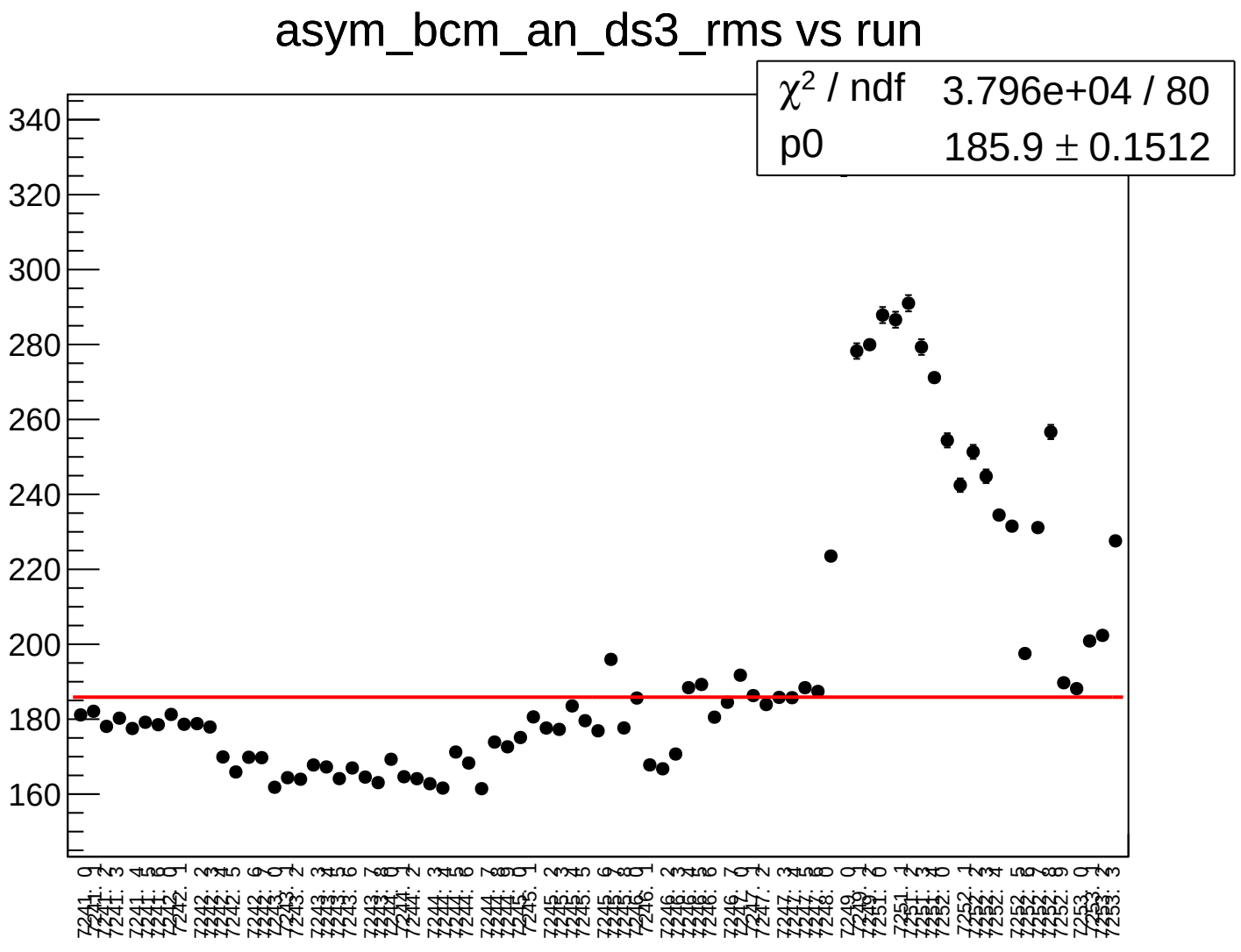

asym_bcm_an_ds_mean vs run
χ² / ndf 19.31 / 80
p0 162.9 ± 213.2
pull
Entries 81
Mean 124.9
Std Dev 0

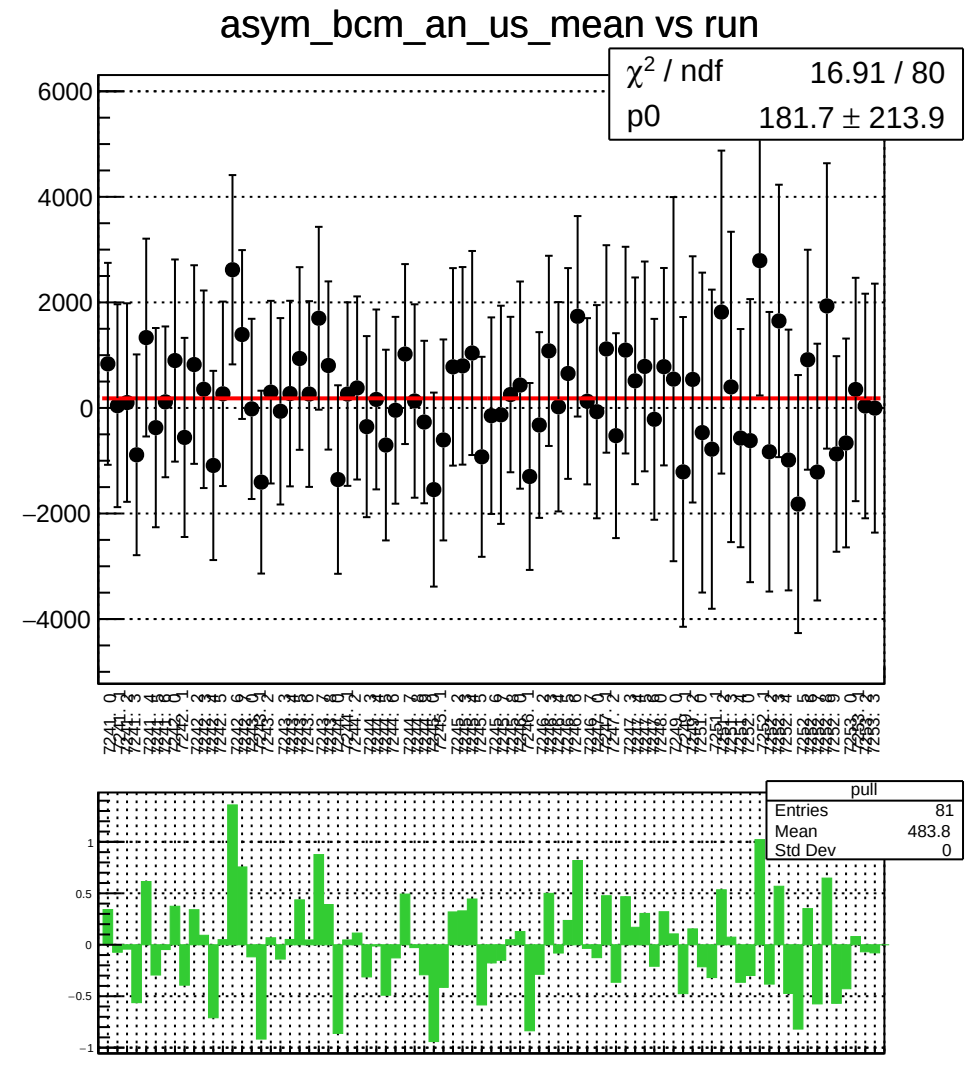

pull1D
Entries 81
Mean −0.004387
Std Dev 0.4882

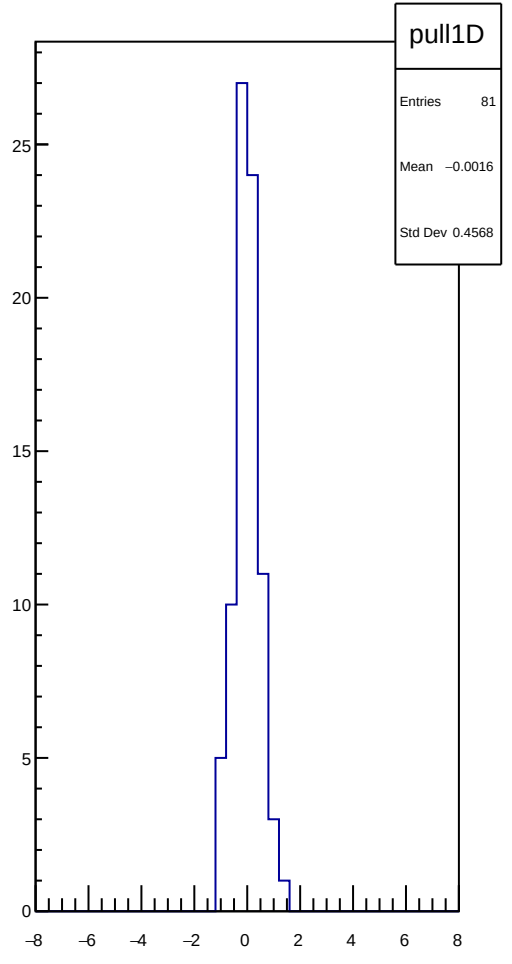

asym_bcm_an_ds_rms vs run
χ^2 / ndf 3.763e+04 / 80
p0 185.3 ± 0.1507
340
320
300
280
260
240
220
200
180
160

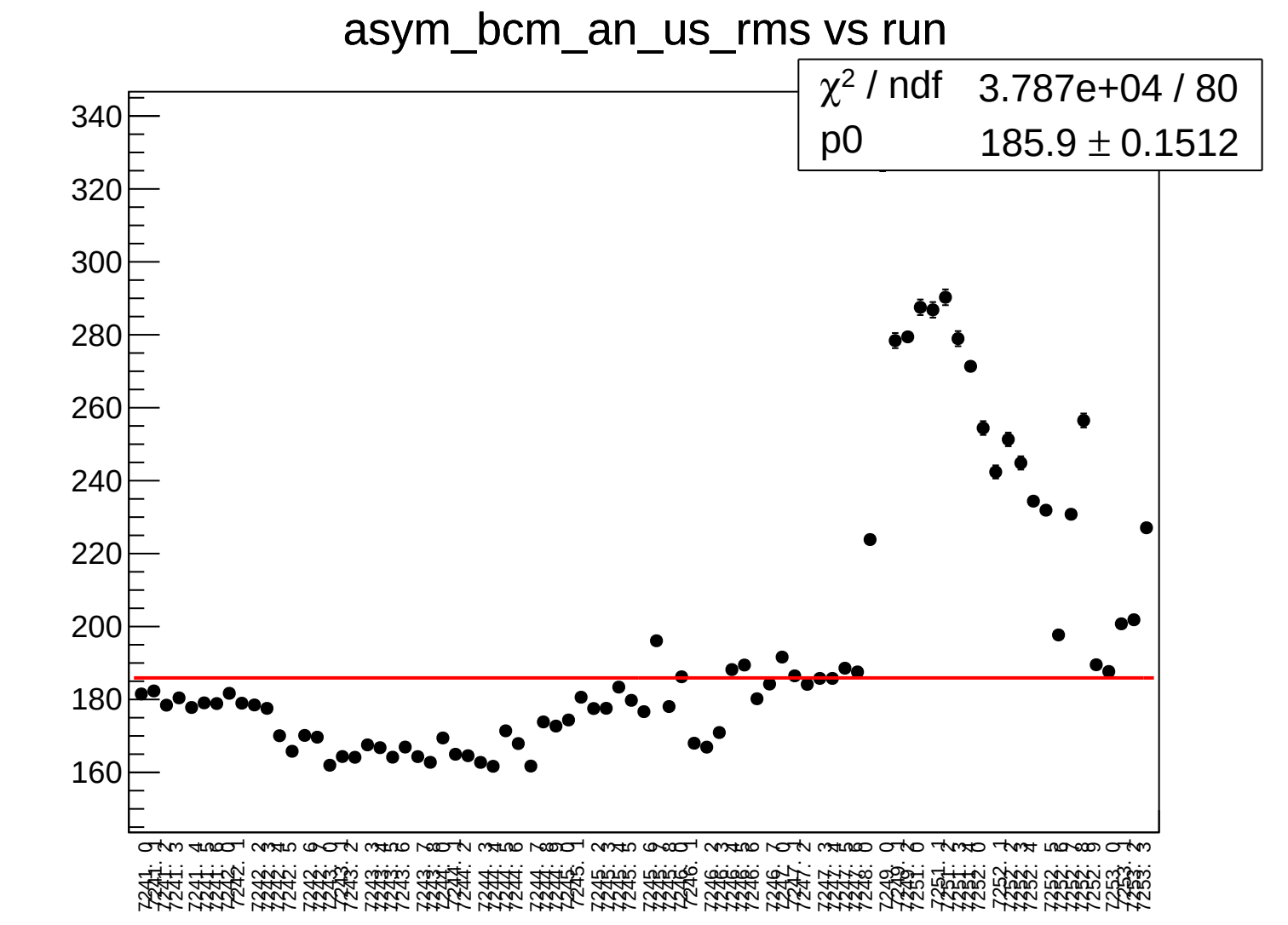

asym_bcm_an_ds3_mean vs run
χ² / ndf 18.74 / 80
p0 165 ± 213.8
6000
4000
2000
0
−2000
−4000
pull
Entries 81
Mean 149.8
Std Dev 0
1
0.5
0
−0.5
−1

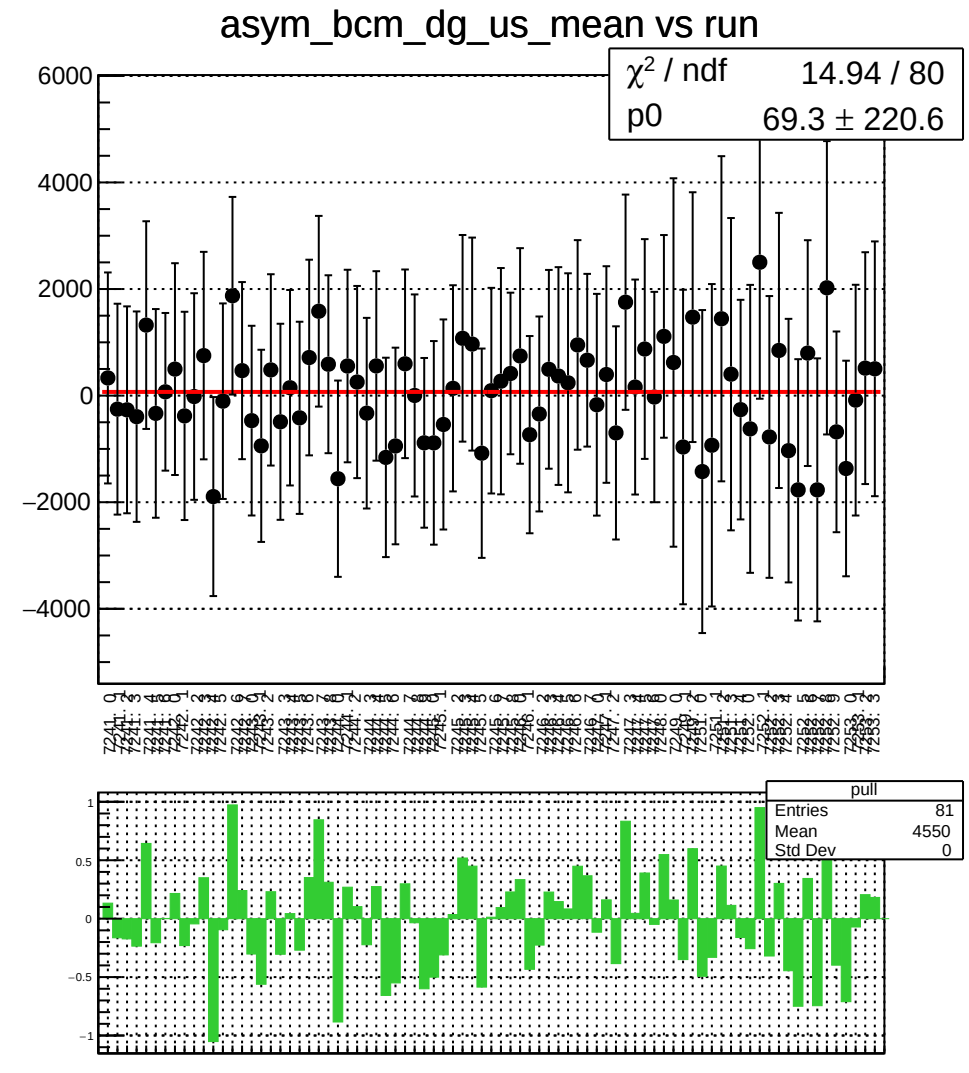

pull1D
Entries 81
Mean −0.003859
Std Dev 0.481
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

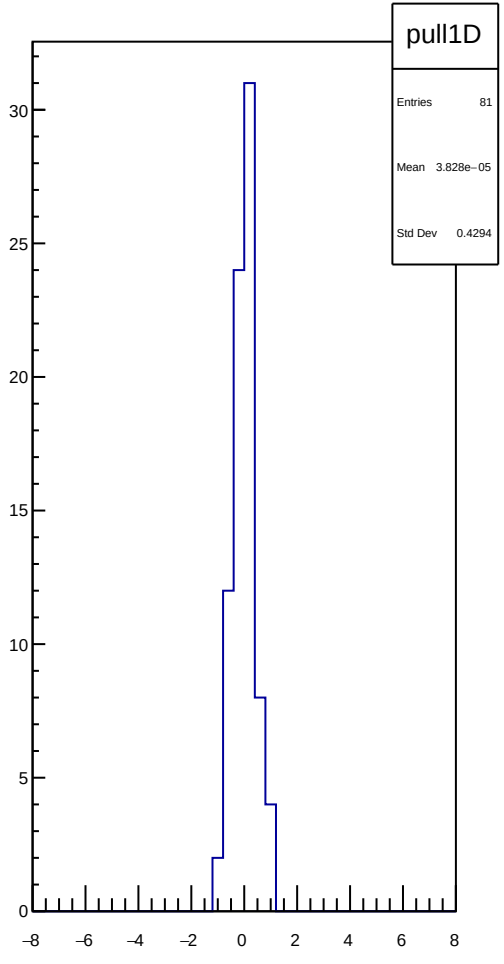

asym_bcm_an_ds3_rms vs run
χ^2 / ndf 3.796e+04 / 80
p0 185.9 ± 0.1512
340
320
300
280
260
240
220
200
180
160

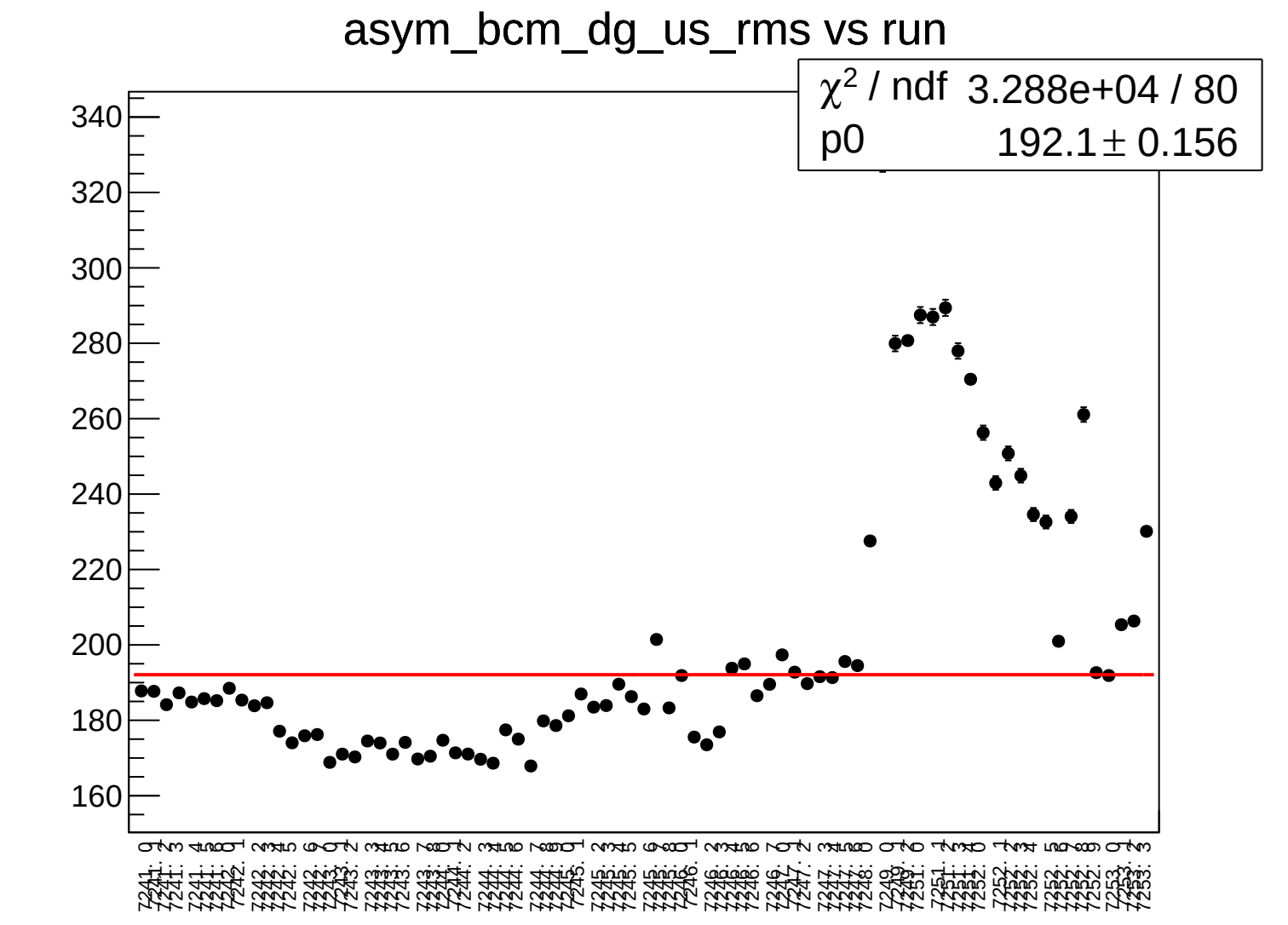

asym_bcm_an_us_mean vs run
χ² / ndf 16.91 / 80
p0 181.7 ± 213.9
6000
4000
2000
0
−2000
−4000
pull
Entries 81
Mean 483.8
Std Dev 0
1
0.5
0
−0.5
−1

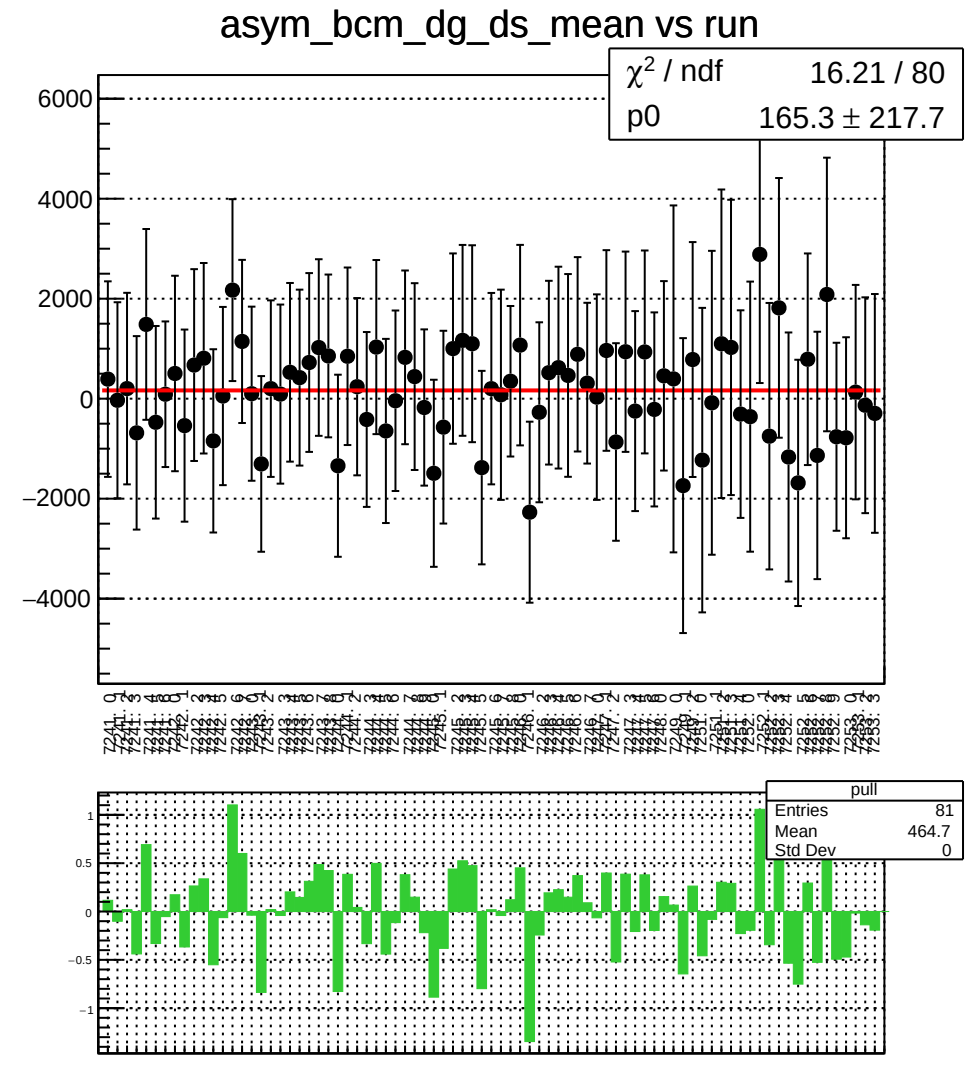

pull1D
Entries 81
Mean −0.0016
Std Dev 0.4568
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

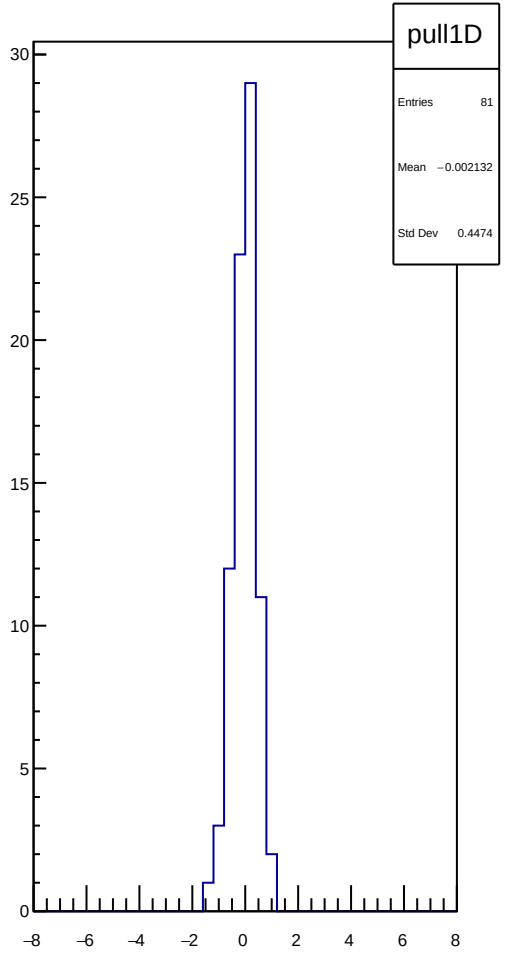

asym_bcm_an_us_rms vs run
χ² / ndf 3.787e+04 / 80
p0 185.9 ± 0.1512
340
320
300
280
260
240
220
200
180
160

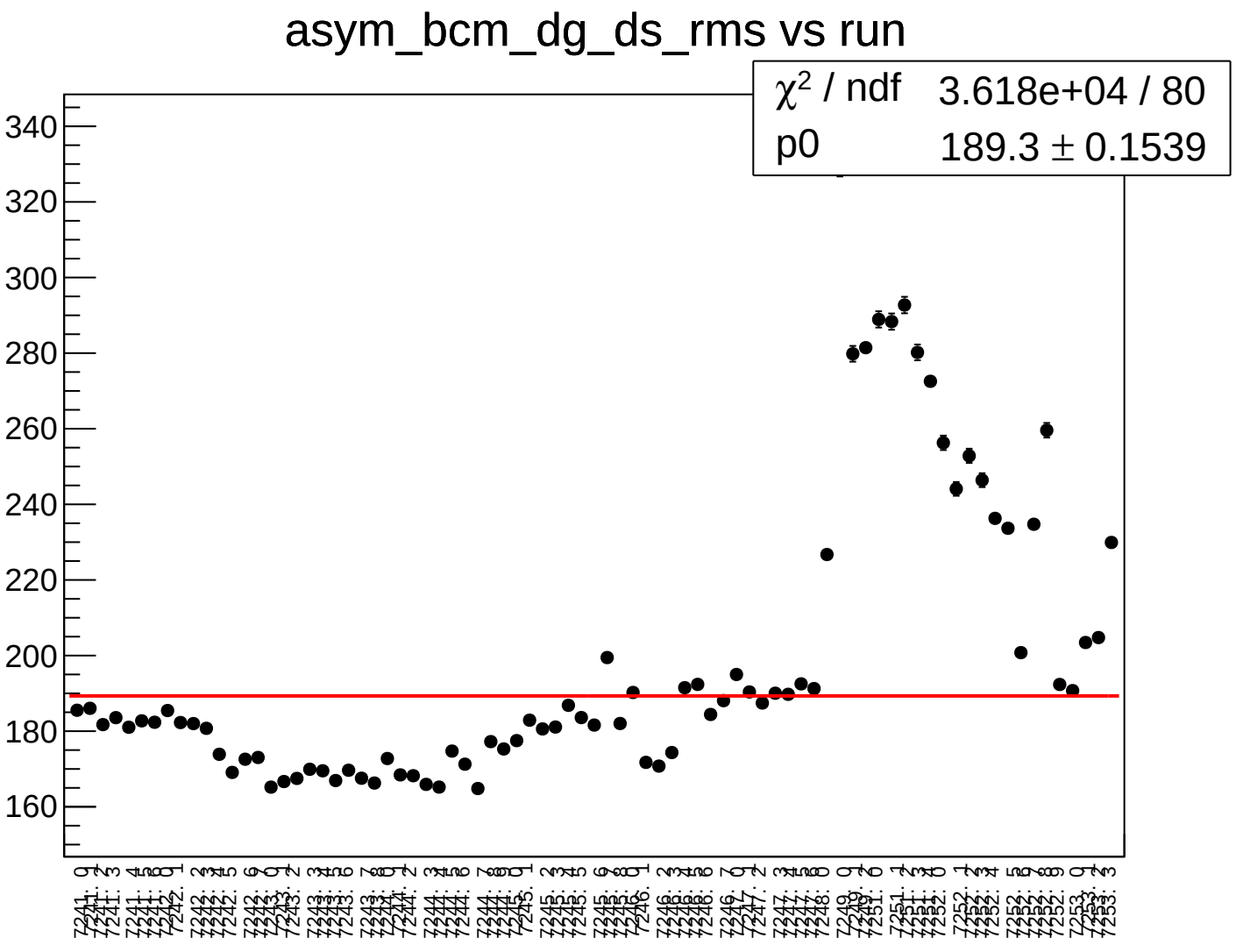

asym_bcm_dg_us_mean vs run
χ² / ndf 14.94 / 80
p0 69.3 ± 220.6
6000
4000
2000
0
−2000
−4000
pull
Entries 81
Mean 4550
Std Dev 0
1
0.5
0
−0.5
−1

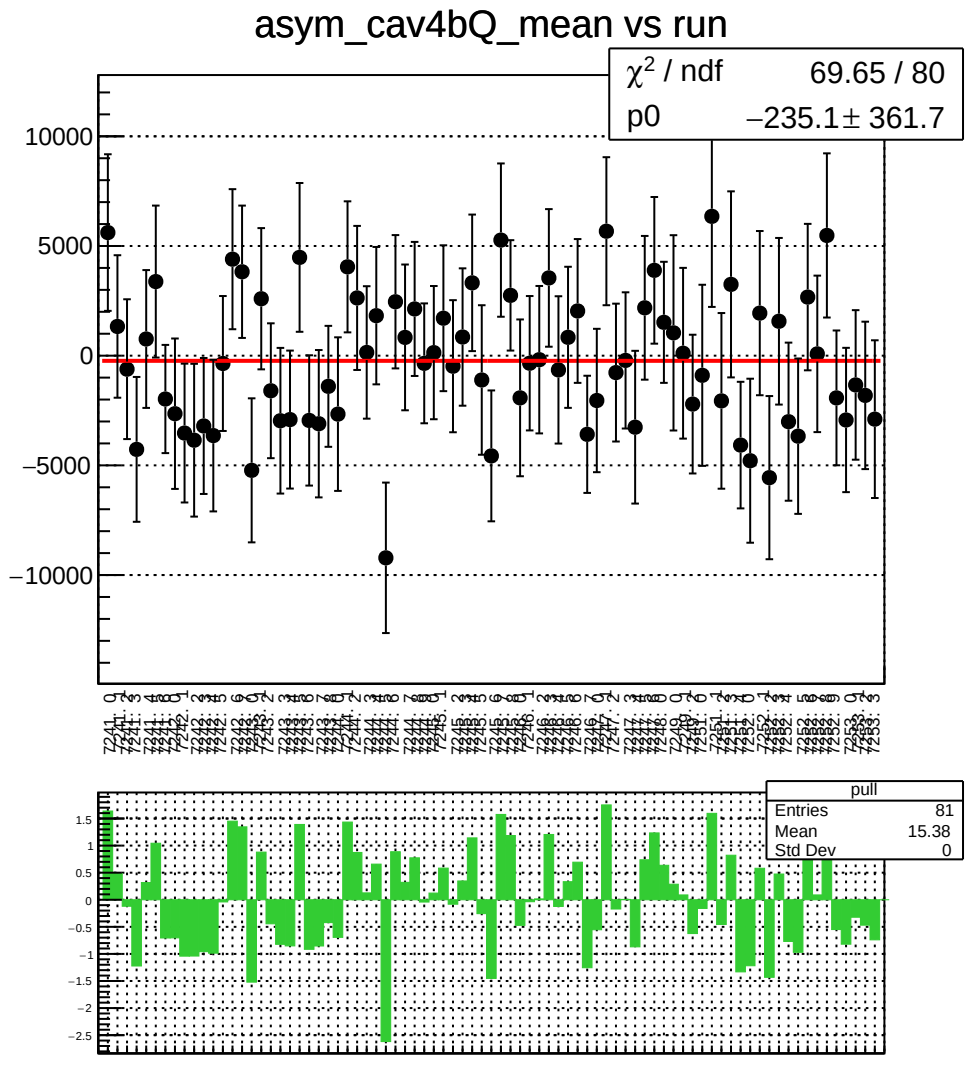

pull1D
Entries 81
Mean 3.828e−05
Std Dev 0.4294
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

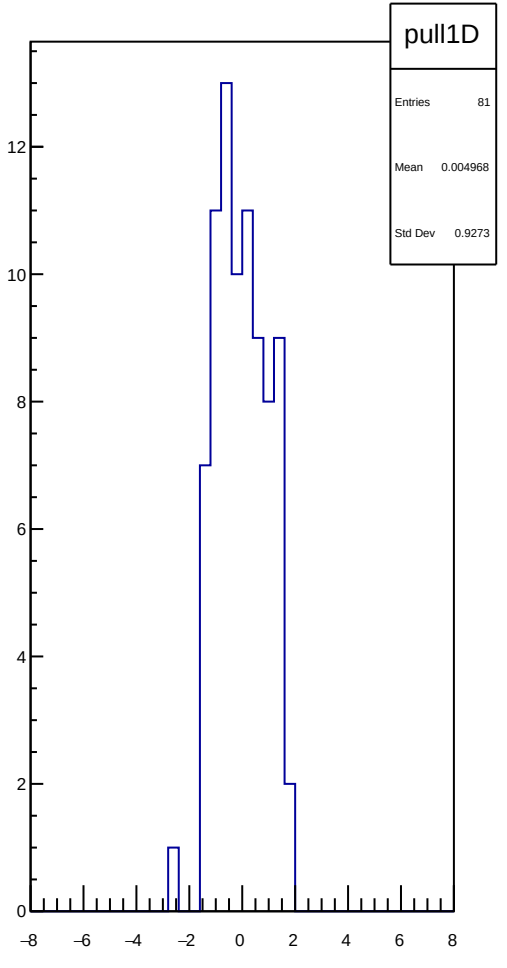

asym_bcm_dg_us_rms vs run
χ^2 / ndf 3.288e+04 / 80
p0 192.1 ± 0.156
340
320
300
280
260
240
220
200
180
160

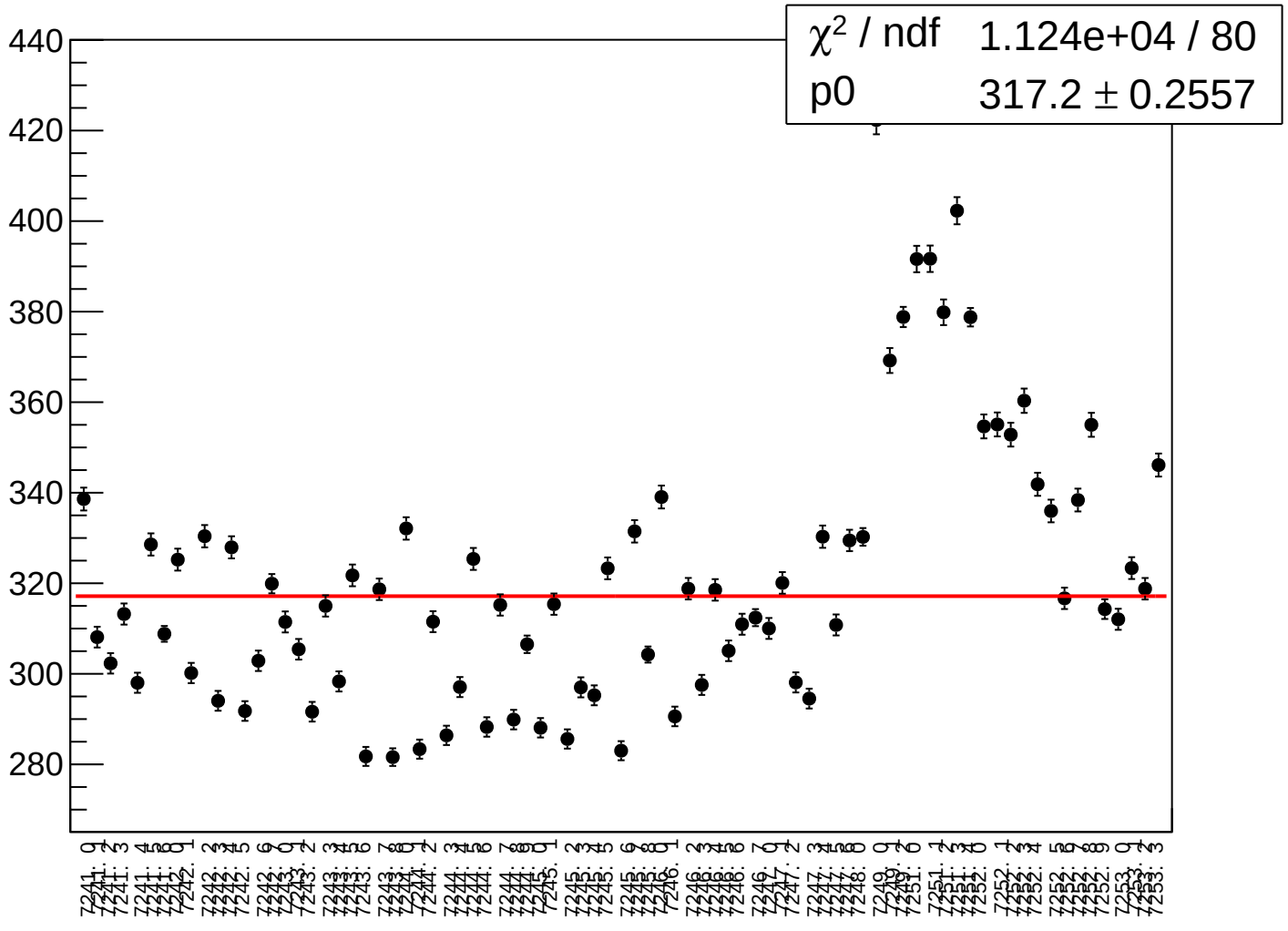

asym_bcm_dg_ds_mean vs run
χ² / ndf 16.21 / 80
p0 165.3 ± 217.7
6000
4000
2000
0
−2000
−4000
pull
Entries 81
Mean 464.7
Std Dev 0
1
0.5
0
−0.5
−1

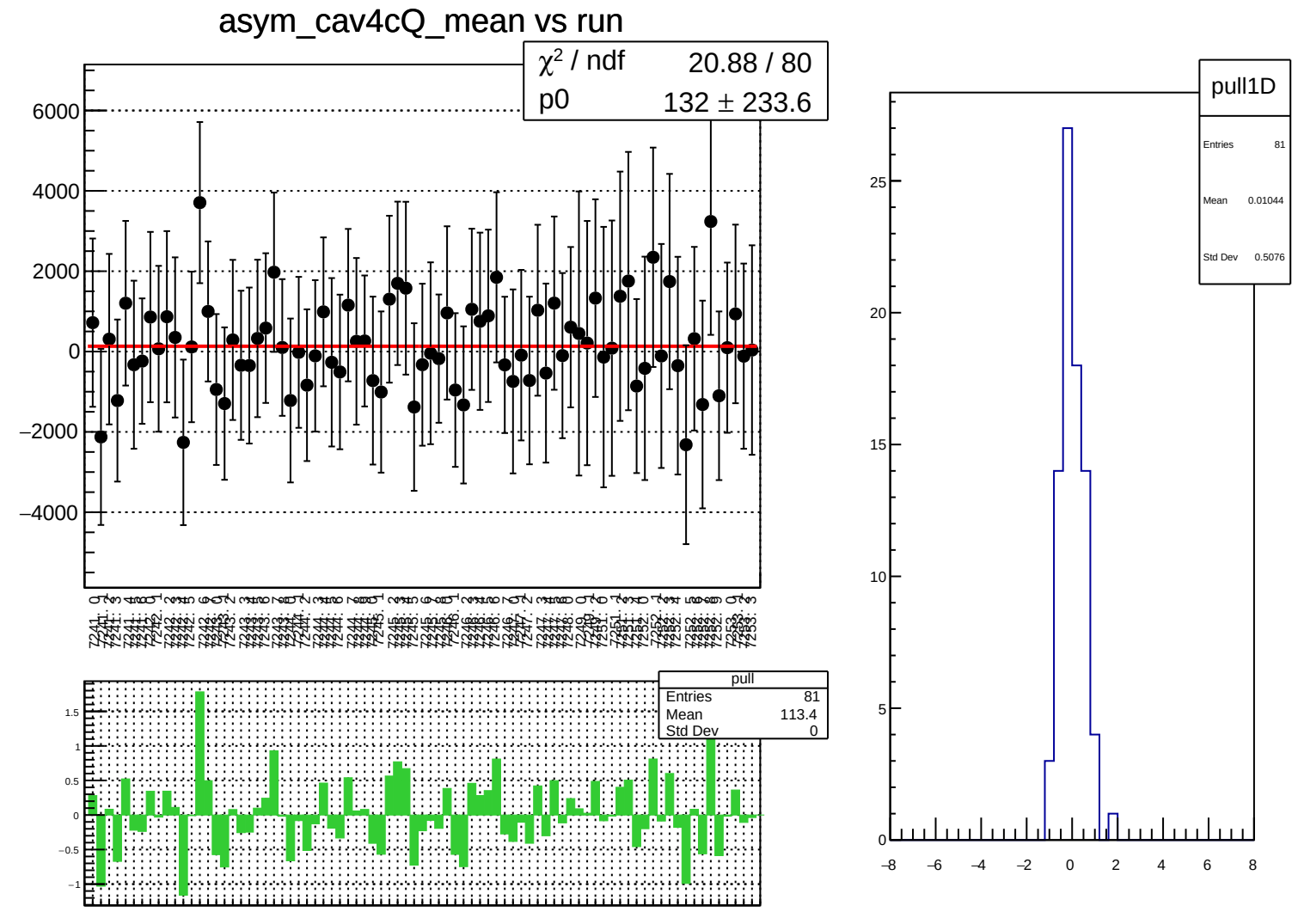

pull1D
Entries 81
Mean −0.002132
Std Dev 0.4474
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

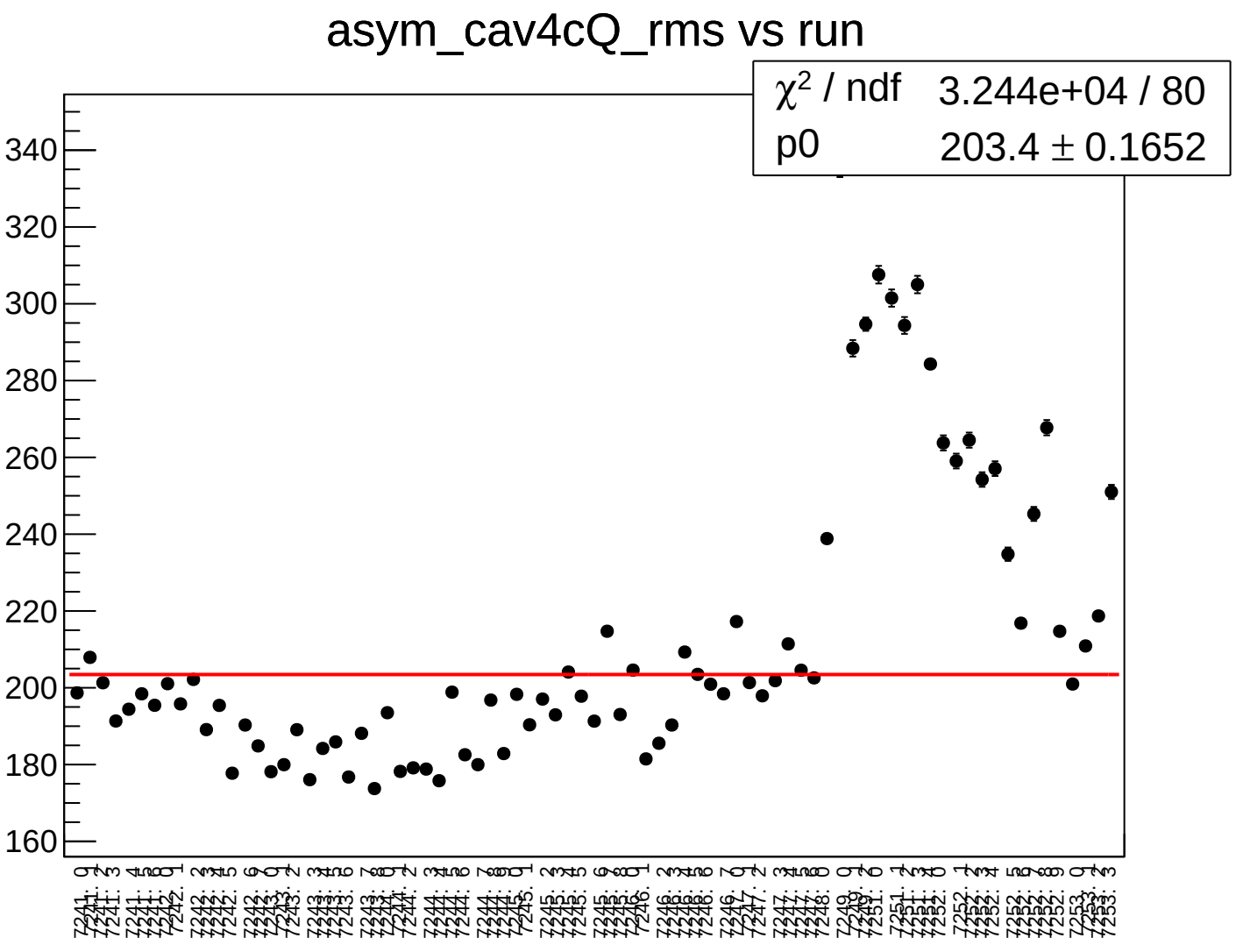

asym_bcm_dg_ds_rms vs run
χ^2 / ndf 3.618e+04 / 80
p0 189.3 ± 0.1539
340
320
300
280
260
240
220
200
180
160

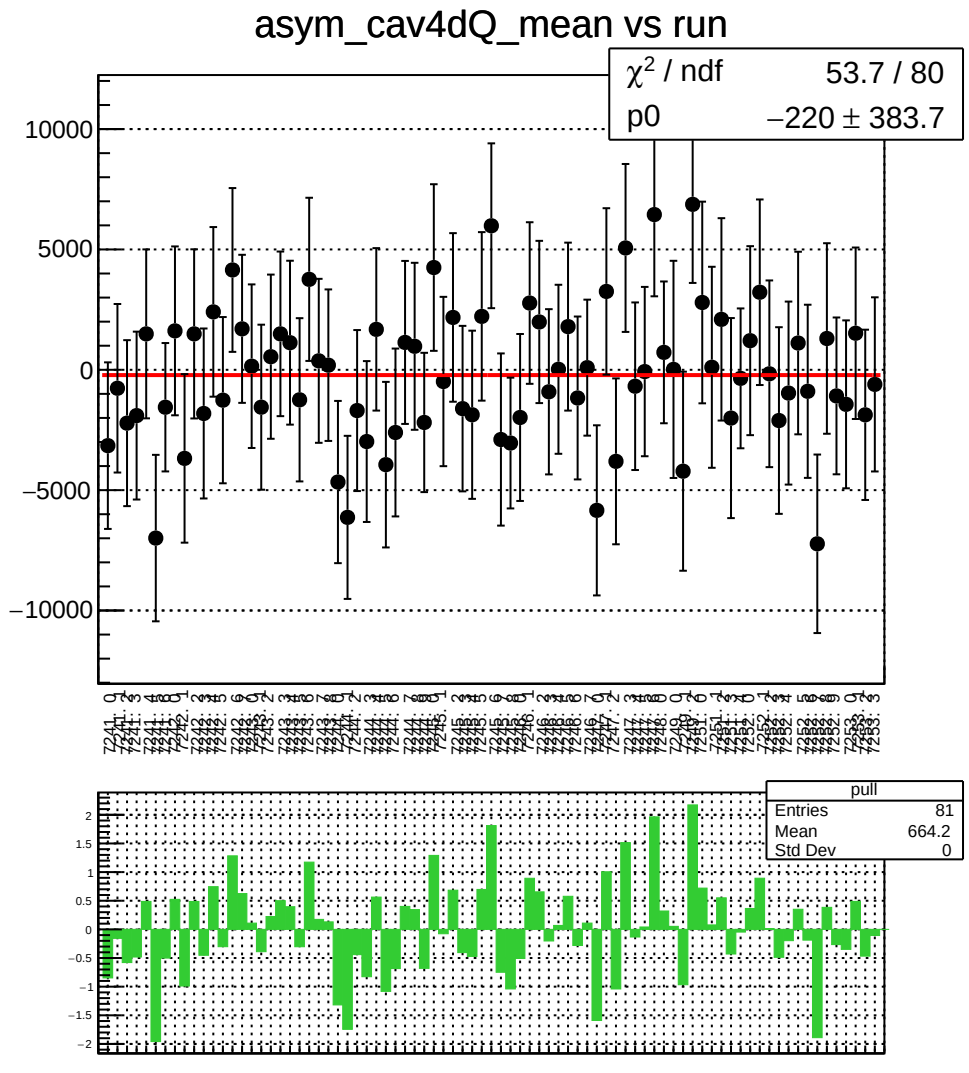

asym_cav4bQ_mean vs run
χ² / ndf 69.65 / 80
p0 −235.1± 361.7
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 15.38
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

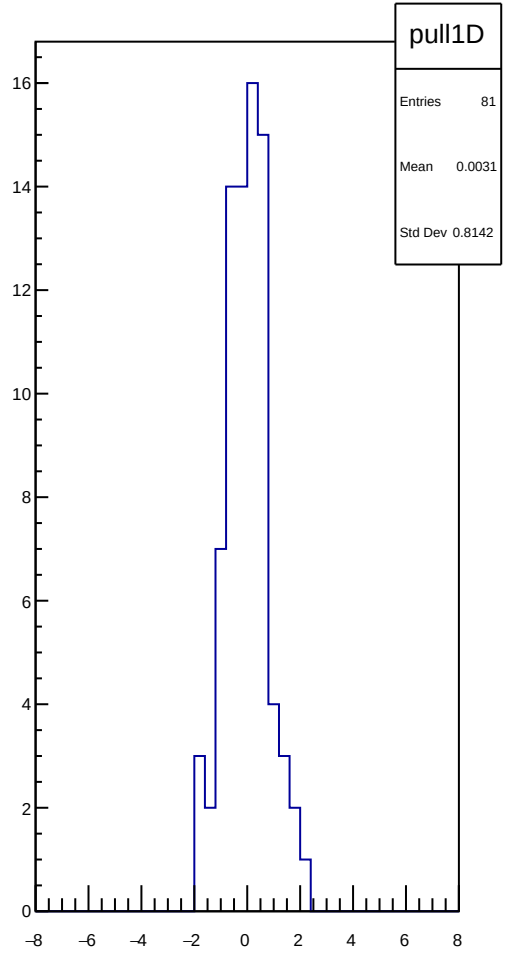

pull1D
Entries 81
Mean 0.004968
Std Dev 0.9273
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

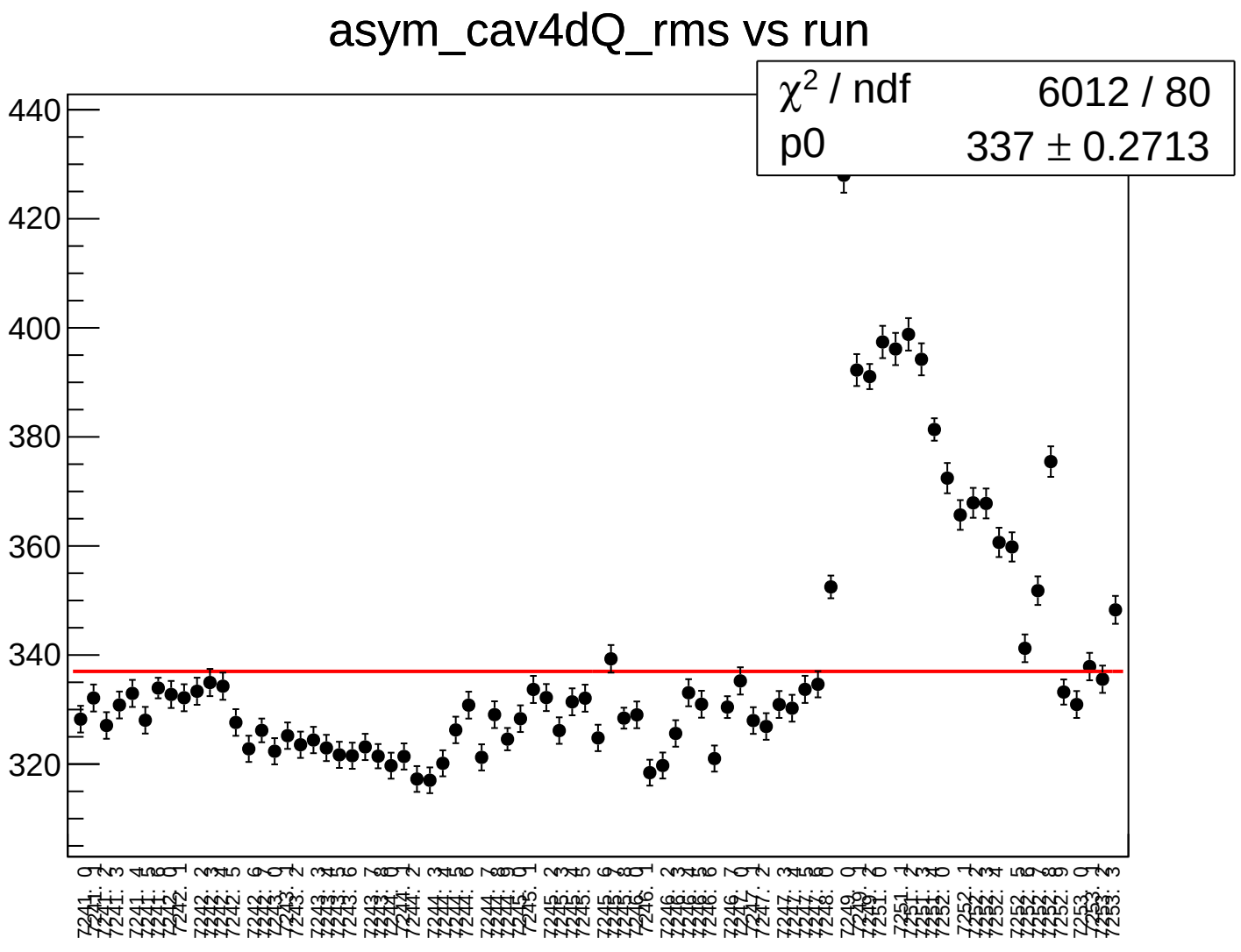

asym_cav4bQ_rms vs run
χ^2 / ndf 1.124e+04 / 80
p0 317.2 ± 0.2557
440
420
400
380
360
340
320
300
280

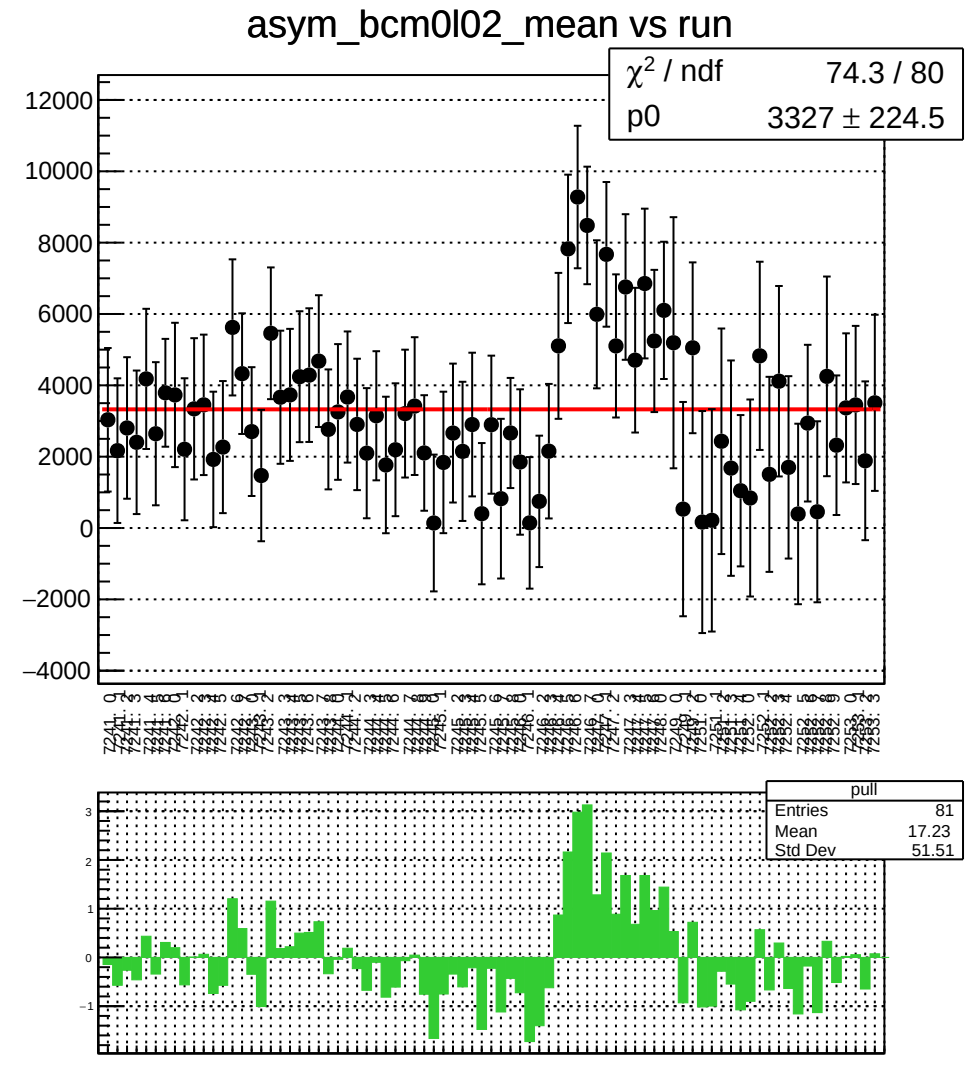

asym_cav4cQ_mean vs run
χ² / ndf 20.88 / 80
p0 132 ± 233.6
6000
4000
2000
0
−2000
−4000
pull
Entries 81
Mean 113.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 81
Mean 0.01044
Std Dev 0.5076
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

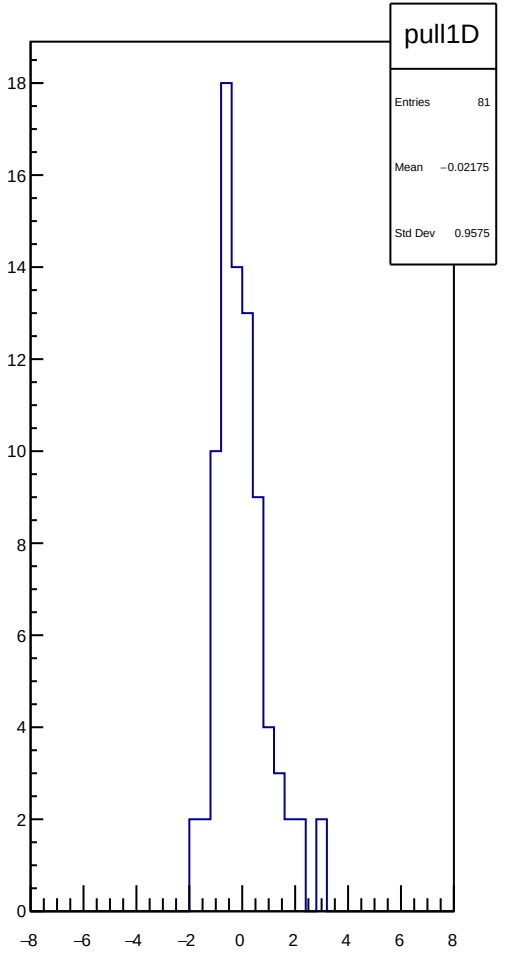

asym_cav4cQ_rms vs run
χ² / ndf 3.244e+04 / 80
p0 203.4 ± 0.1652
340
320
300
280
260
240
220
200
180
160

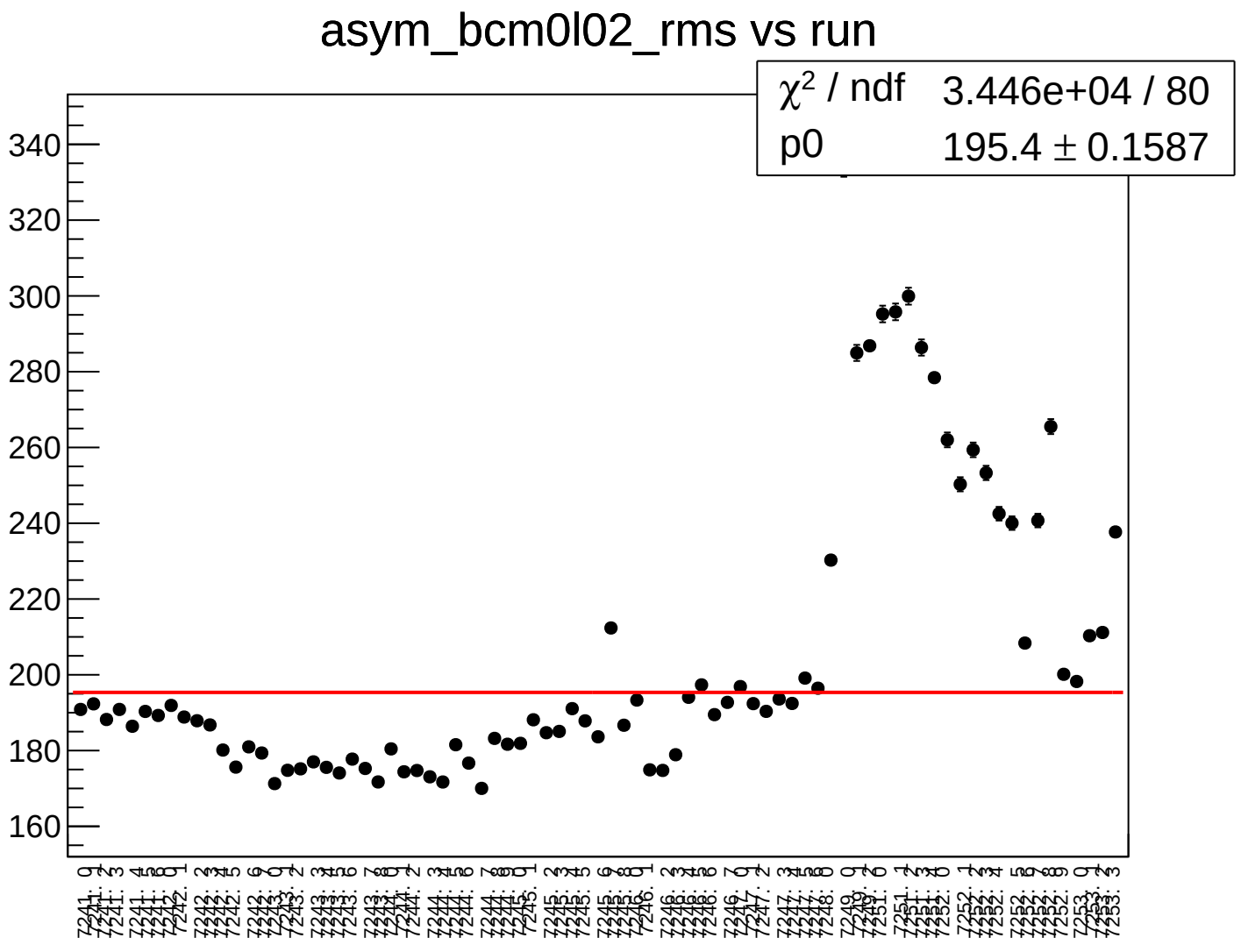

asym_cav4dQ_mean vs run
χ² / ndf 53.7 / 80
p0 −220 ± 383.7
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 664.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

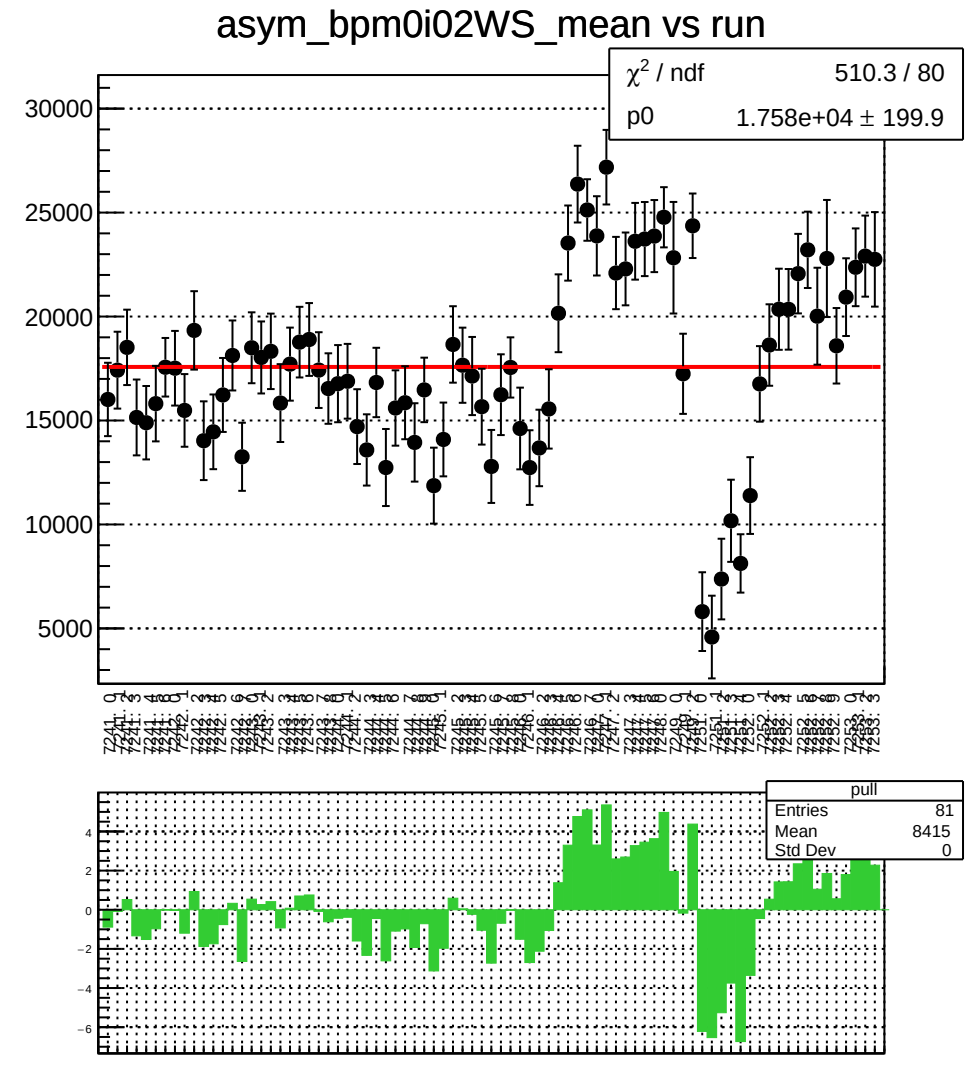

pull1D
Entries 81
Mean 0.0031
Std Dev 0.8142
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

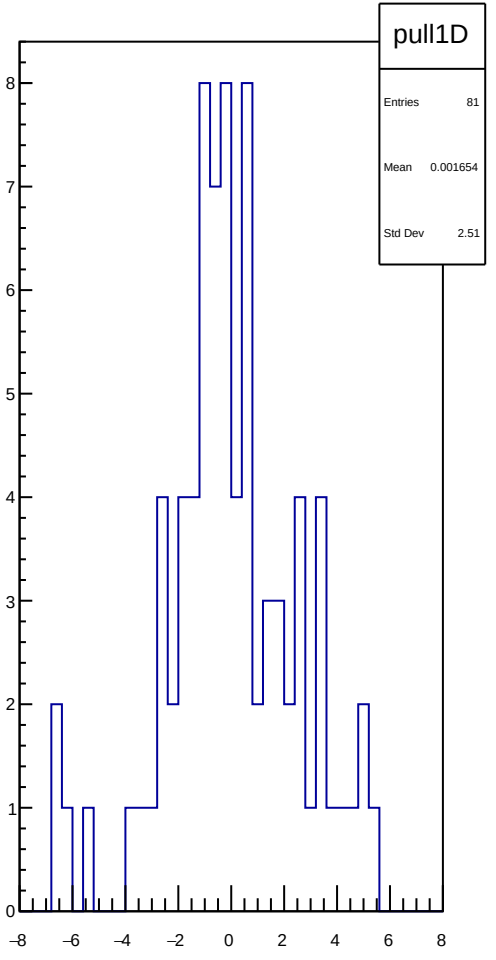

asym_cav4dQ_rms vs run
χ^2 / ndf 6012 / 80
p0 337 ± 0.2713
440
420
400
380
360
340
320

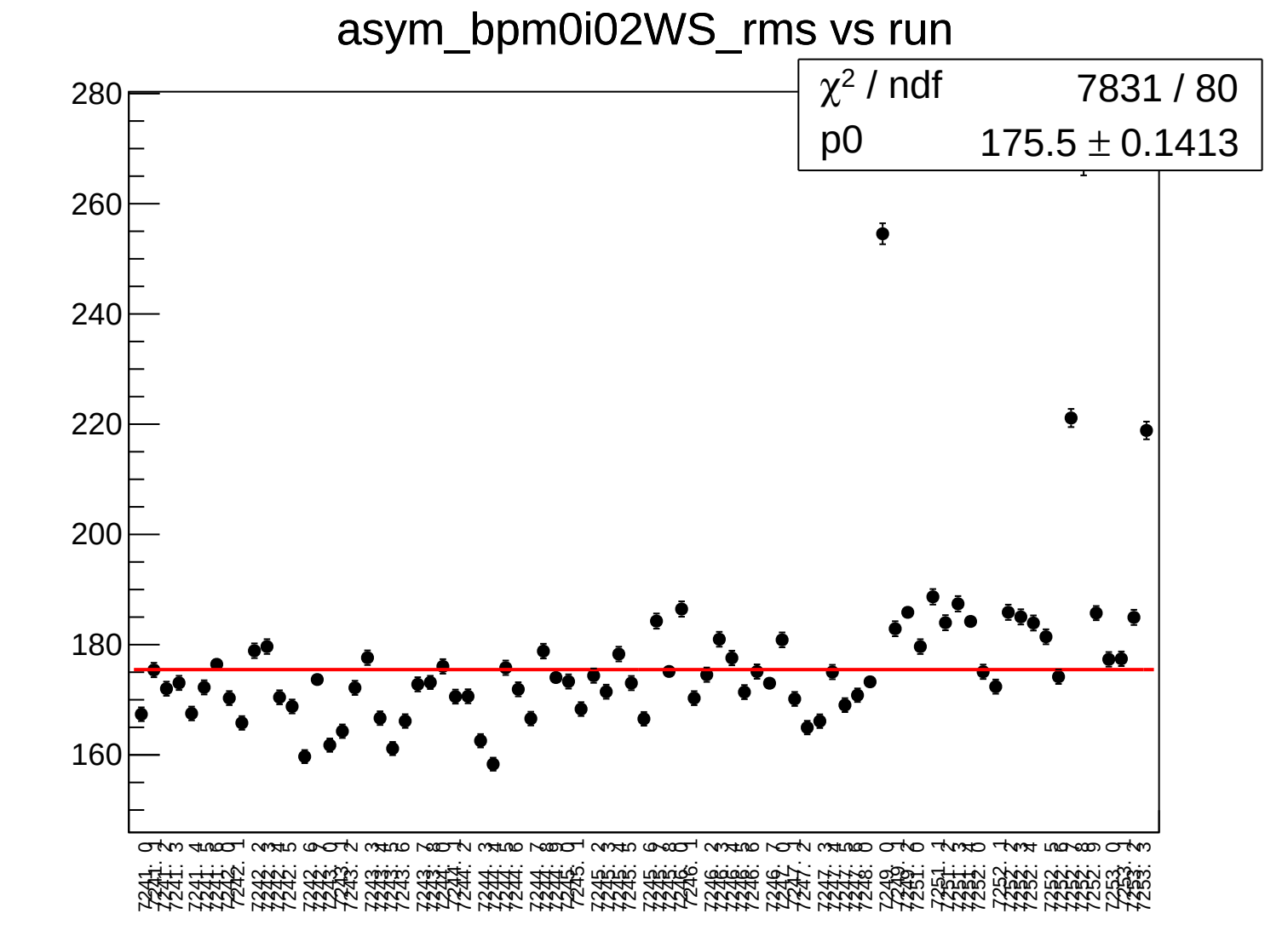

asym_bcm0l02_mean vs run
χ² / ndf 74.3 / 80
p0 3327 ± 224.5
pull
Entries 81
Mean 17.23
Std Dev 51.51

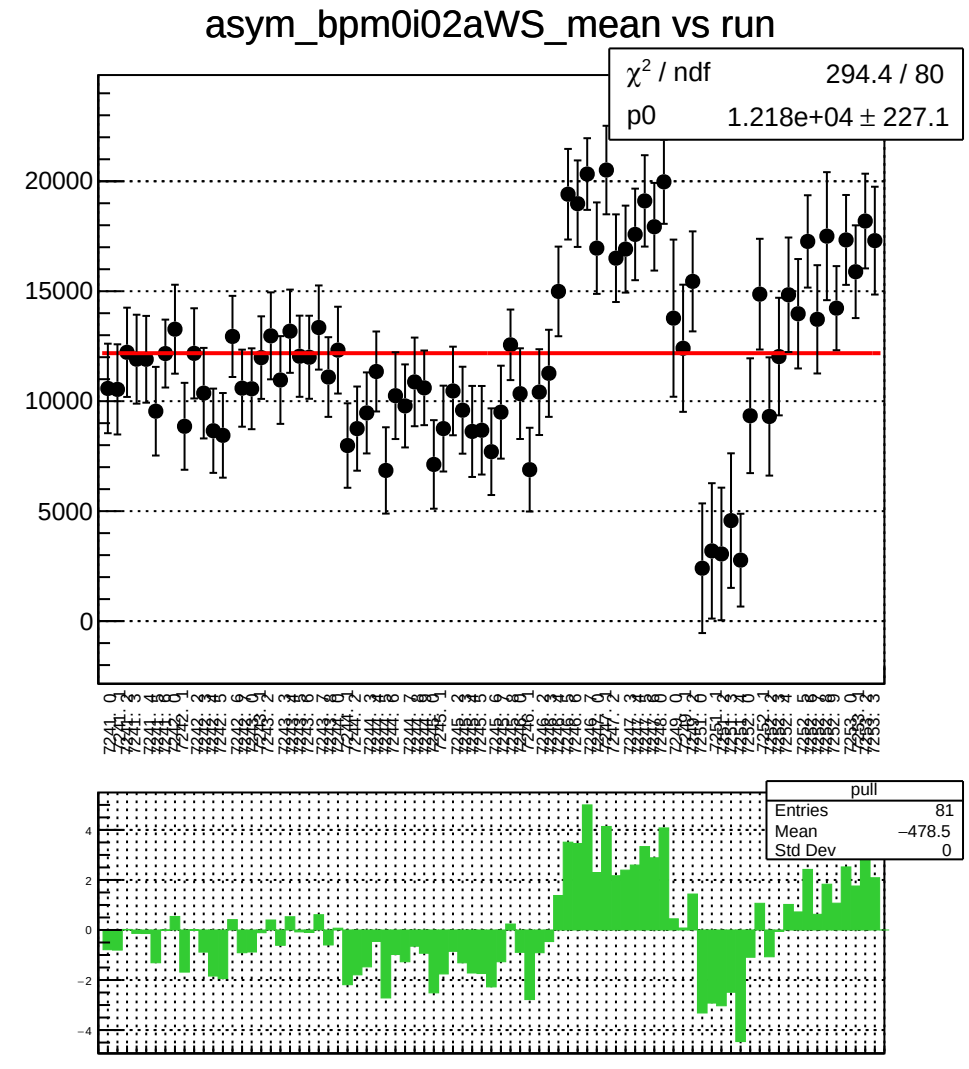

pull1D
Entries 81
Mean −0.02175
Std Dev 0.9575

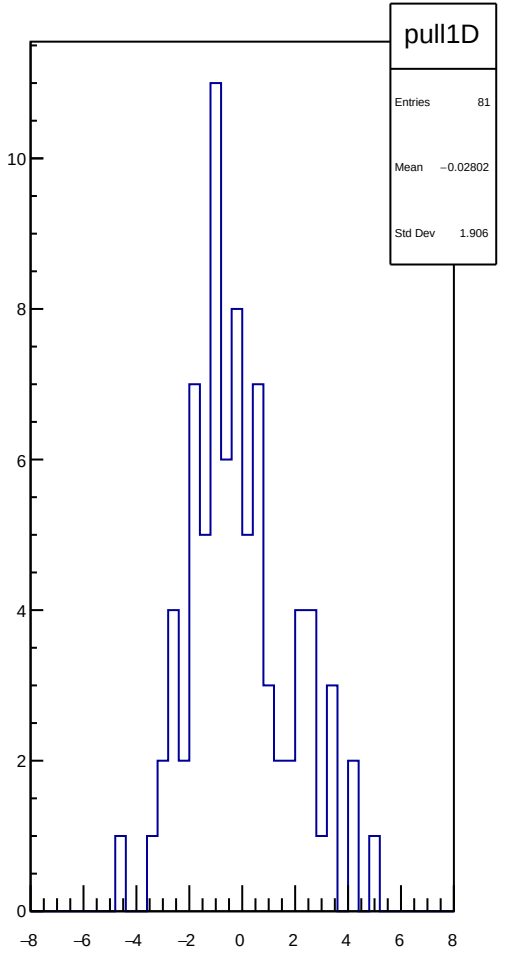

asym_bcm0l02_rms vs run
χ² / ndf 3.446e+04 / 80
p0 195.4 ± 0.1587
340
320
300
280
260
240
220
200
180
160

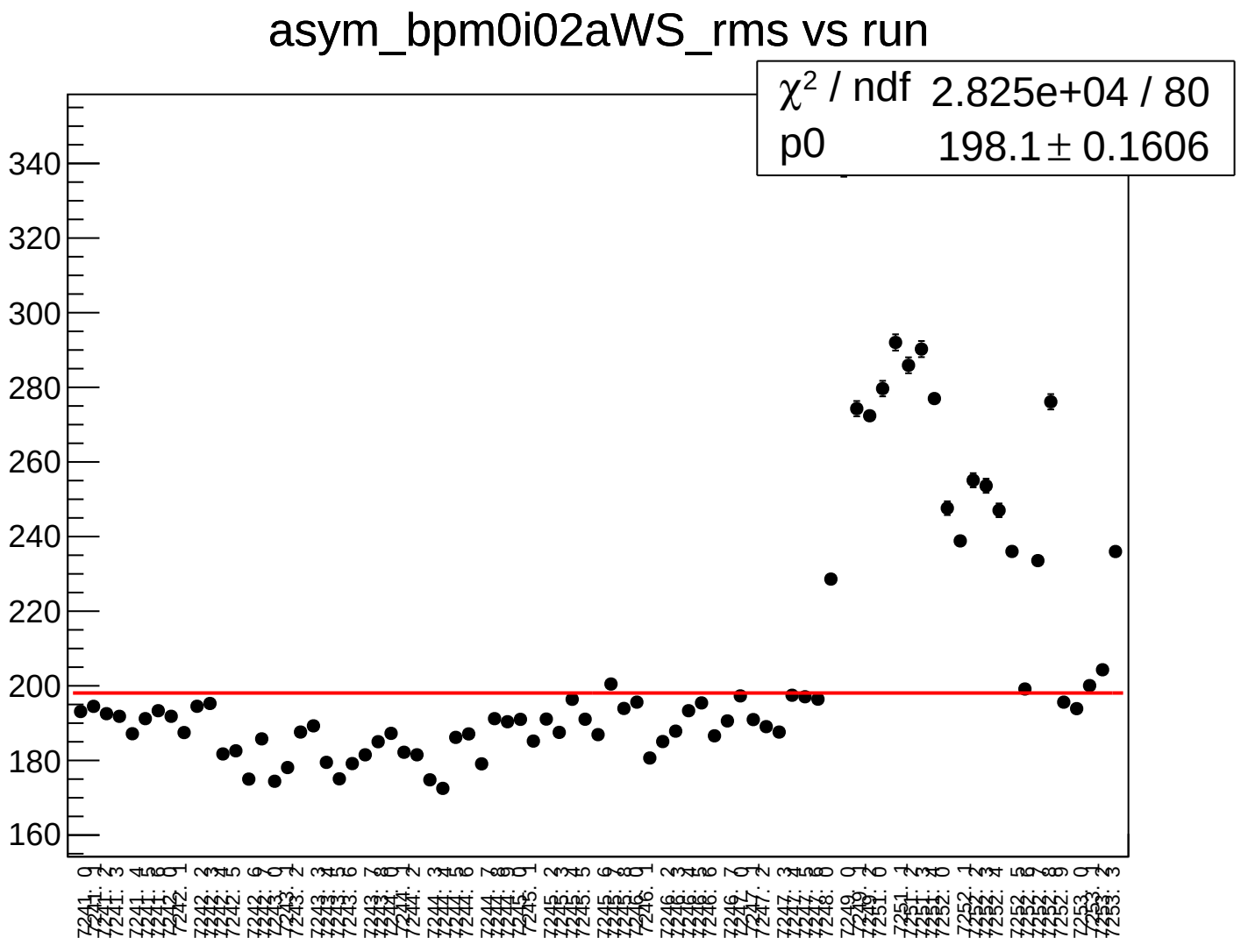

asym_bpm0i02WS_mean vs run
χ² / ndf 510.3 / 80
p0 1.758e+04 ± 199.9
30000
25000
20000
15000
10000
5000
pull
Entries 81
Mean 8415
Std Dev 0
4
2
0
−2
−4
−6

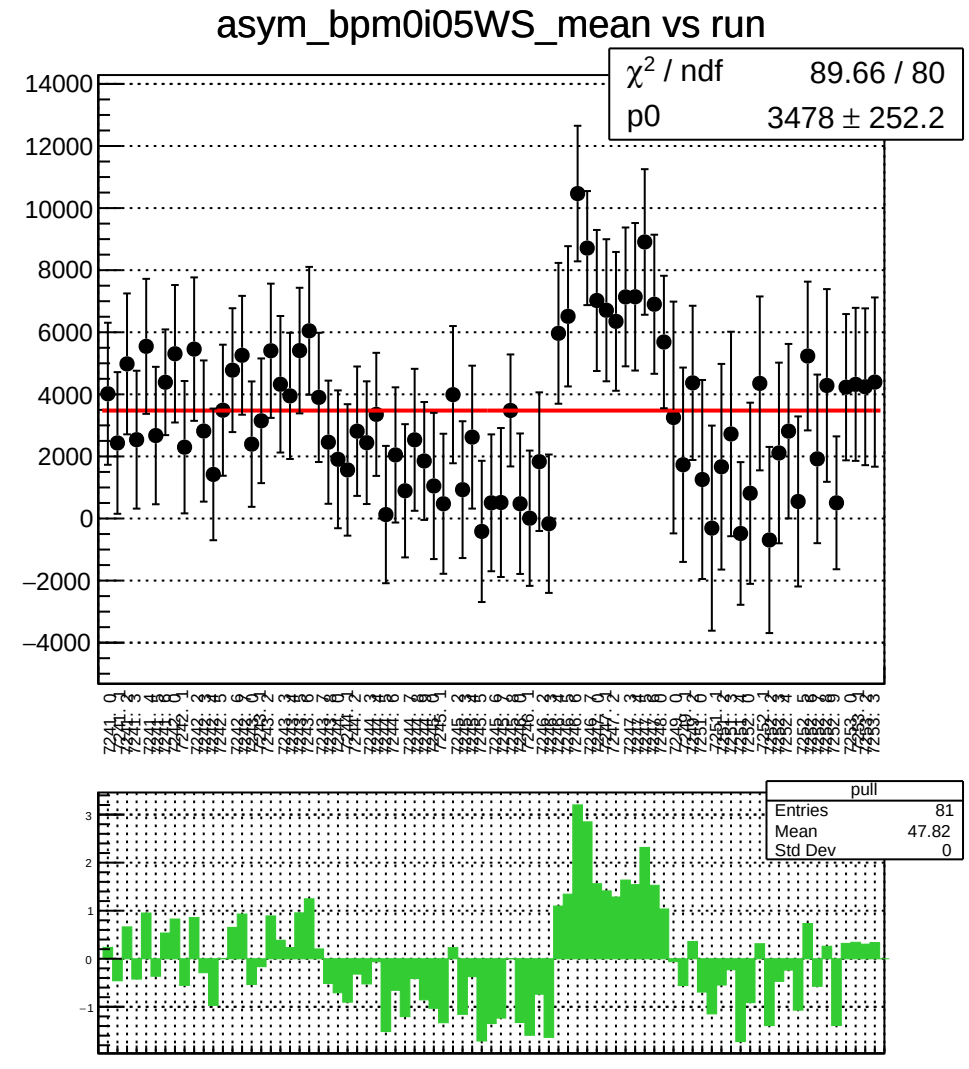

pull1D
Entries 81
Mean 0.001654
Std Dev 2.51
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

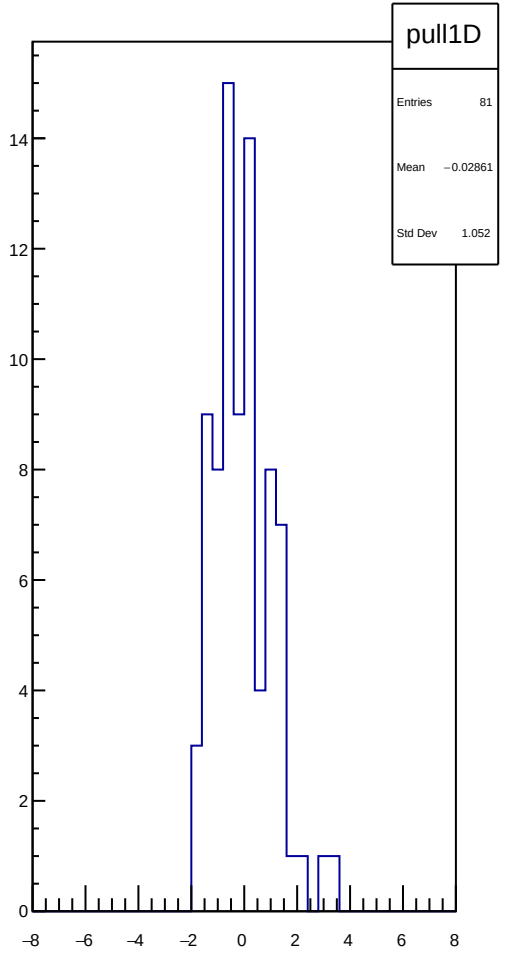

asym_bpm0i02WS_rms vs run
χ^2 / ndf 7831 / 80
p0 175.5 ± 0.1413
280
260
240
220
200
180
160

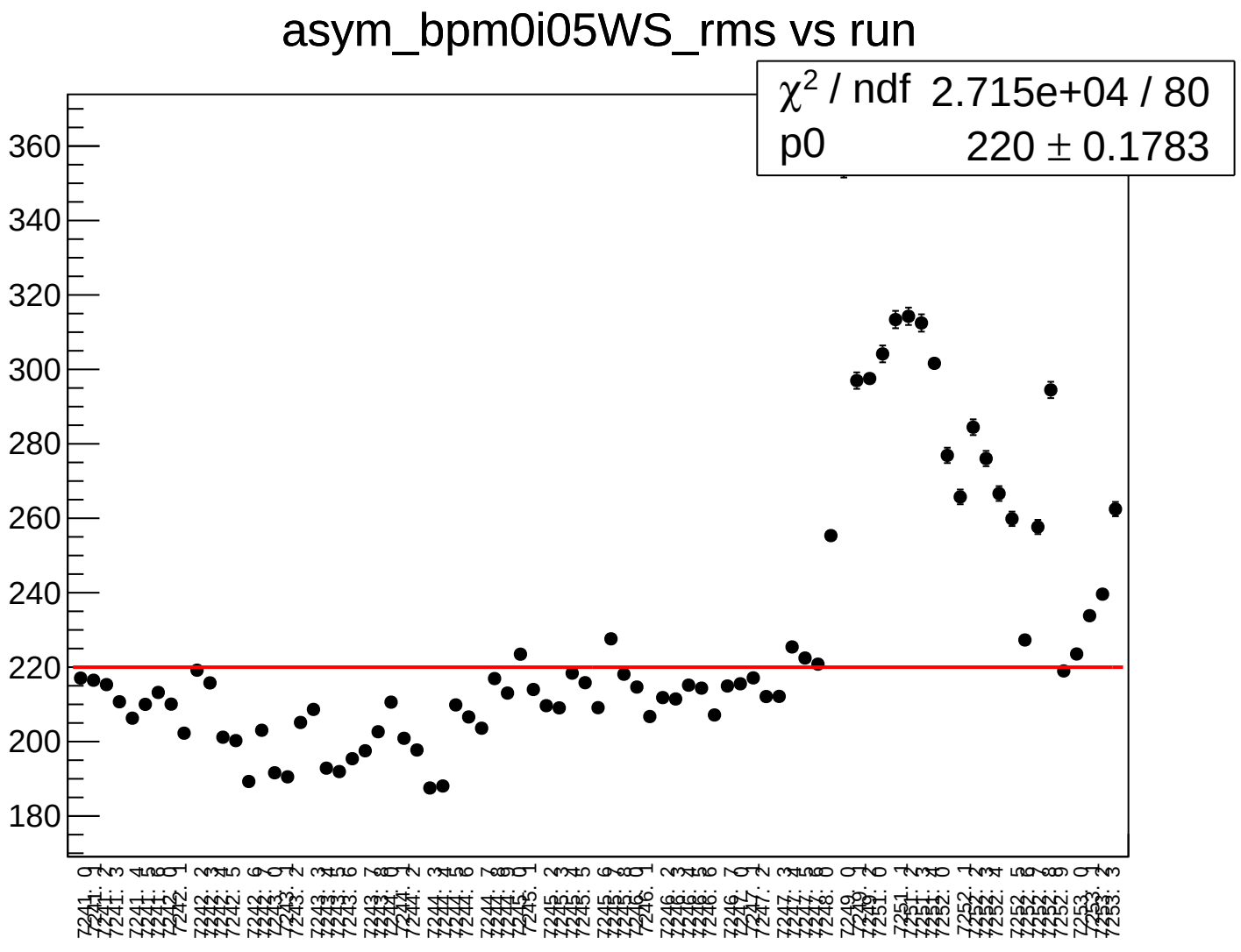

asym_bpm0i02aWS_mean vs run
χ² / ndf 294.4 / 80
p0 1.218e+04 ± 227.1
20000
15000
10000
5000
0
pull
Entries 81
Mean −478.5
Std Dev 0
4
2
0
−2
−4

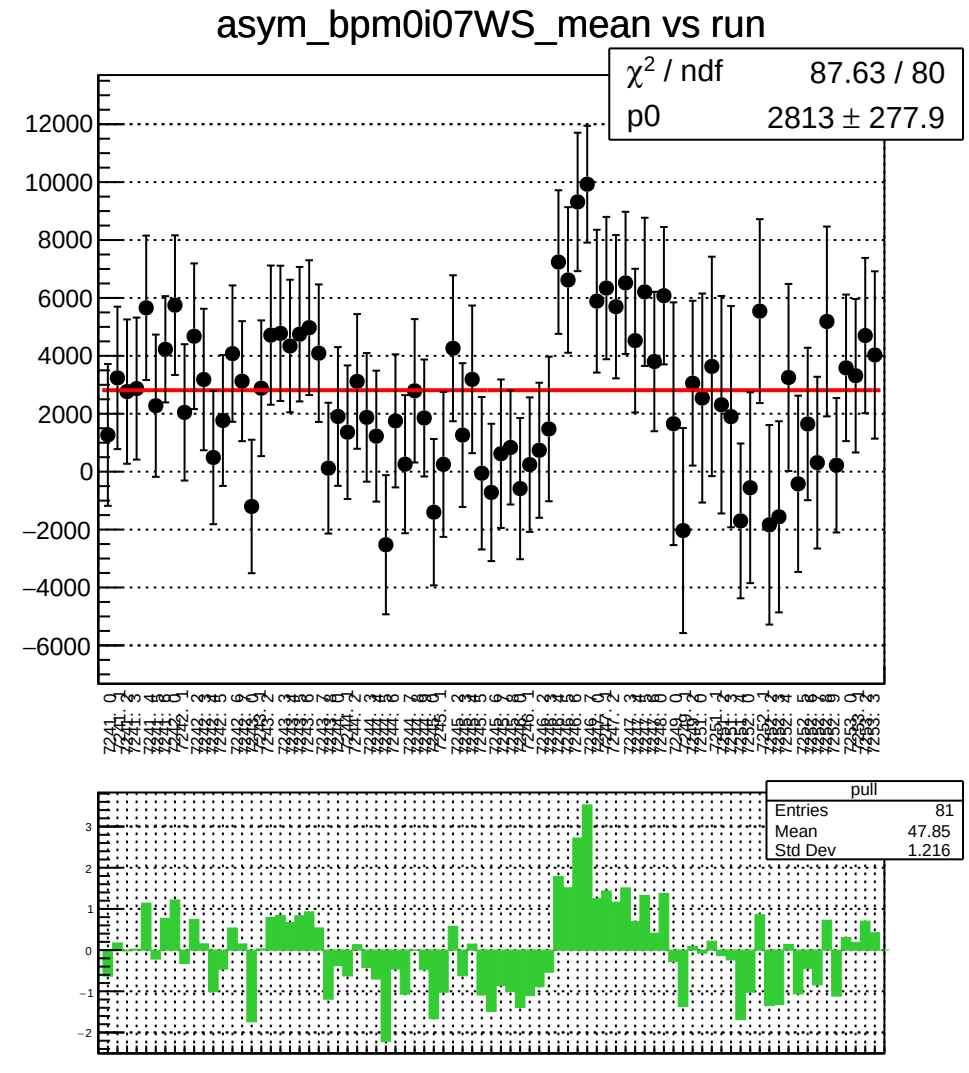

pull1D
Entries 81
Mean −0.02802
Std Dev 1.906
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

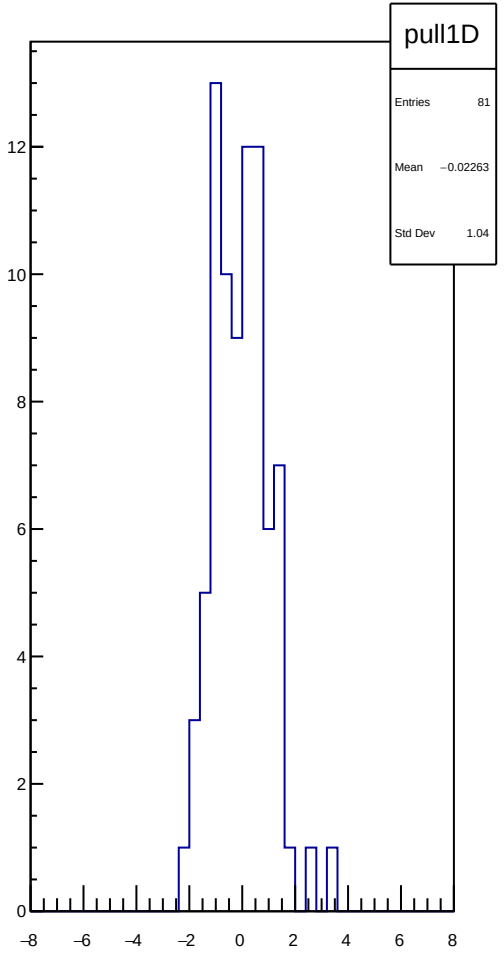

asym_bpm0i02aWS_rms vs run
χ² / ndf 2.825e+04 / 80
p0 198.1 ± 0.1606
340
320
300
280
260
240
220
200
180
160

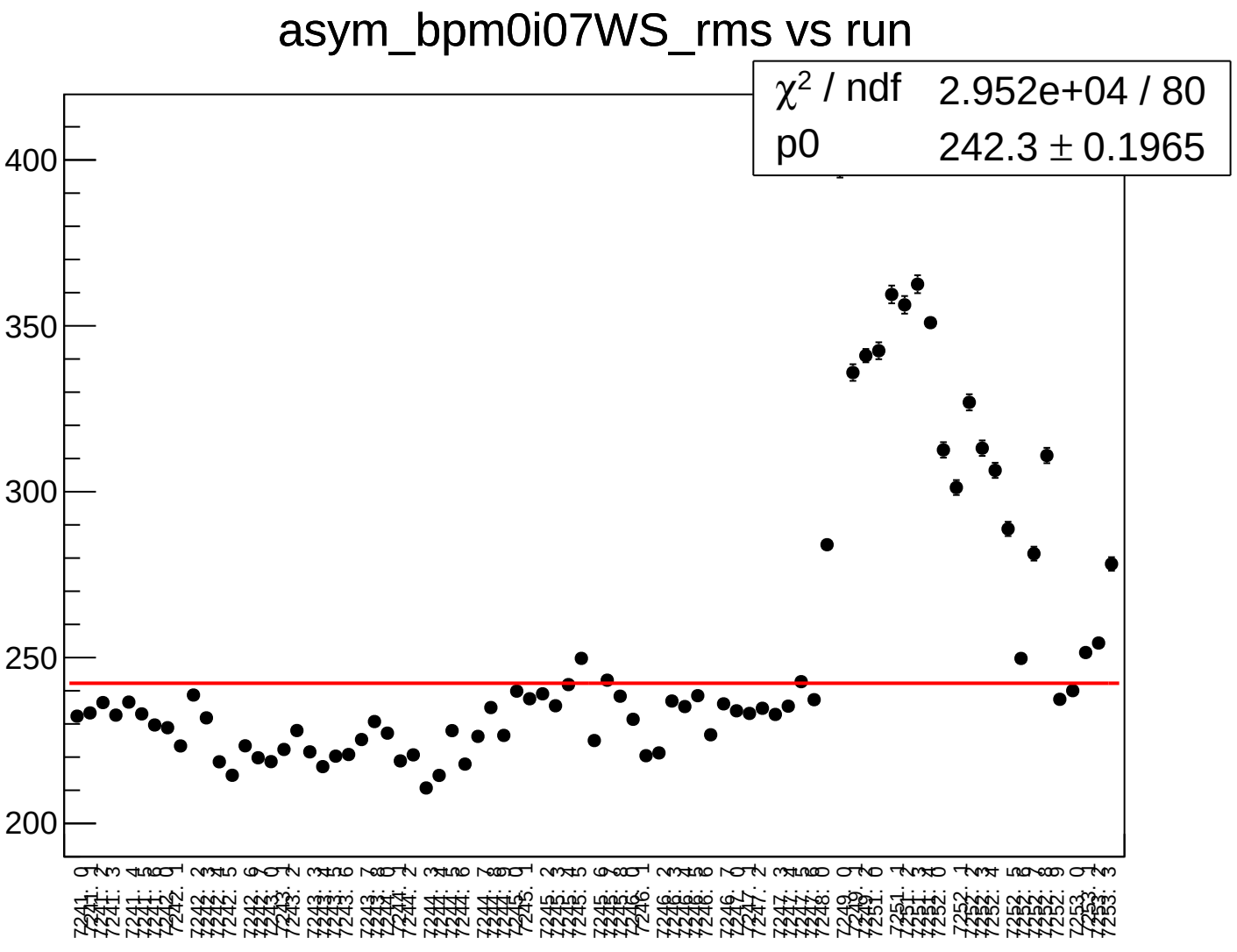

asym_bpm0i05WS_mean vs run
χ² / ndf 89.66 / 80
p0 3478 ± 252.2
pull
Entries 81
Mean 47.82
Std Dev 0

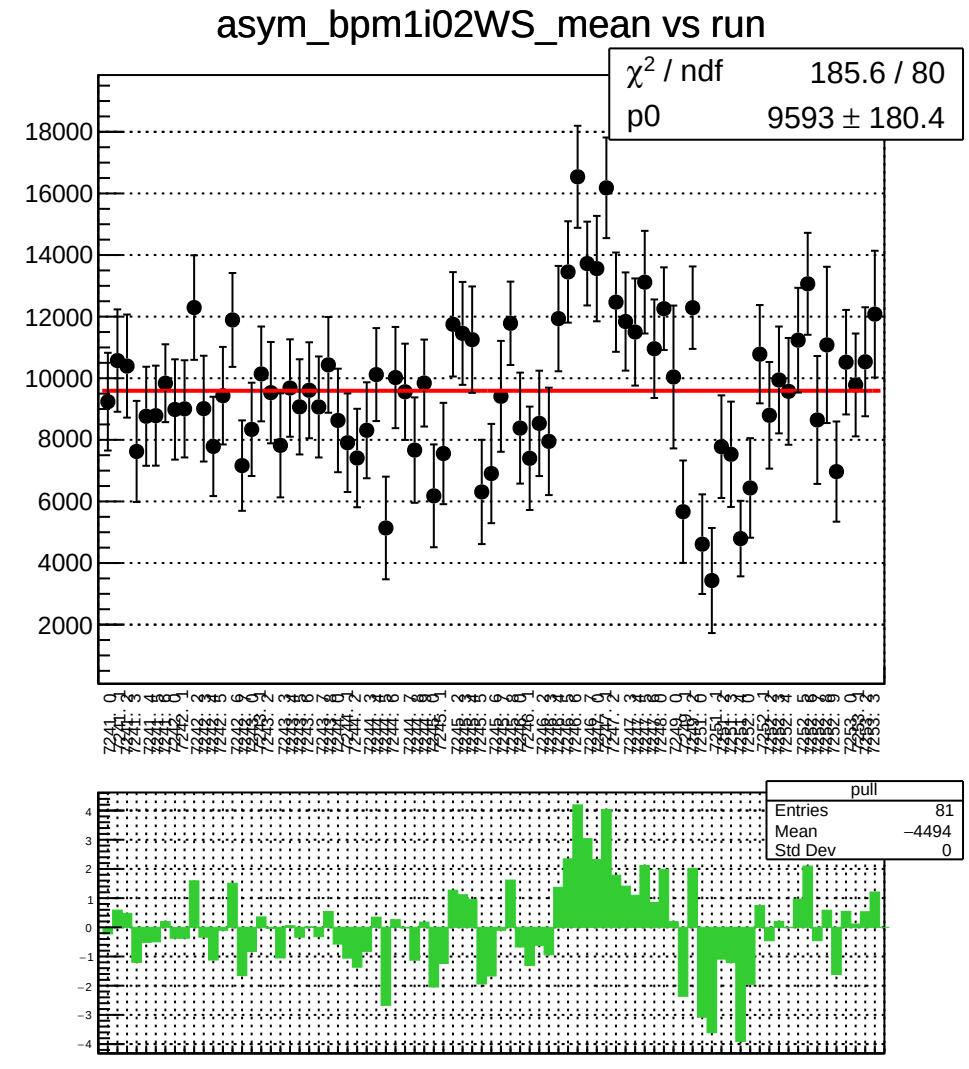

pull1D
Entries 81
Mean −0.02861
Std Dev 1.052

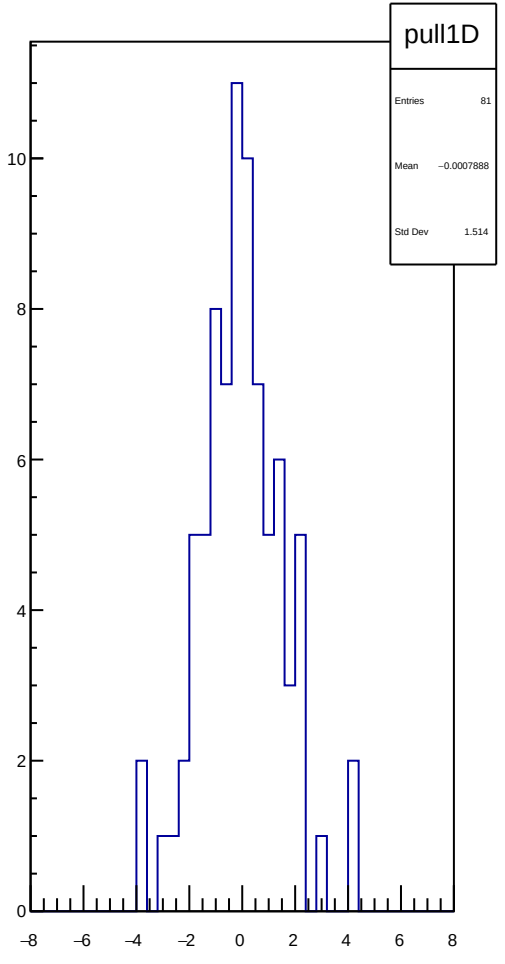

asym_bpm0i05WS_rms vs run
χ^2 / ndf 2.715e+04 / 80
p0 220 ± 0.1783
360
340
320
300
280
260
240
220
200
180

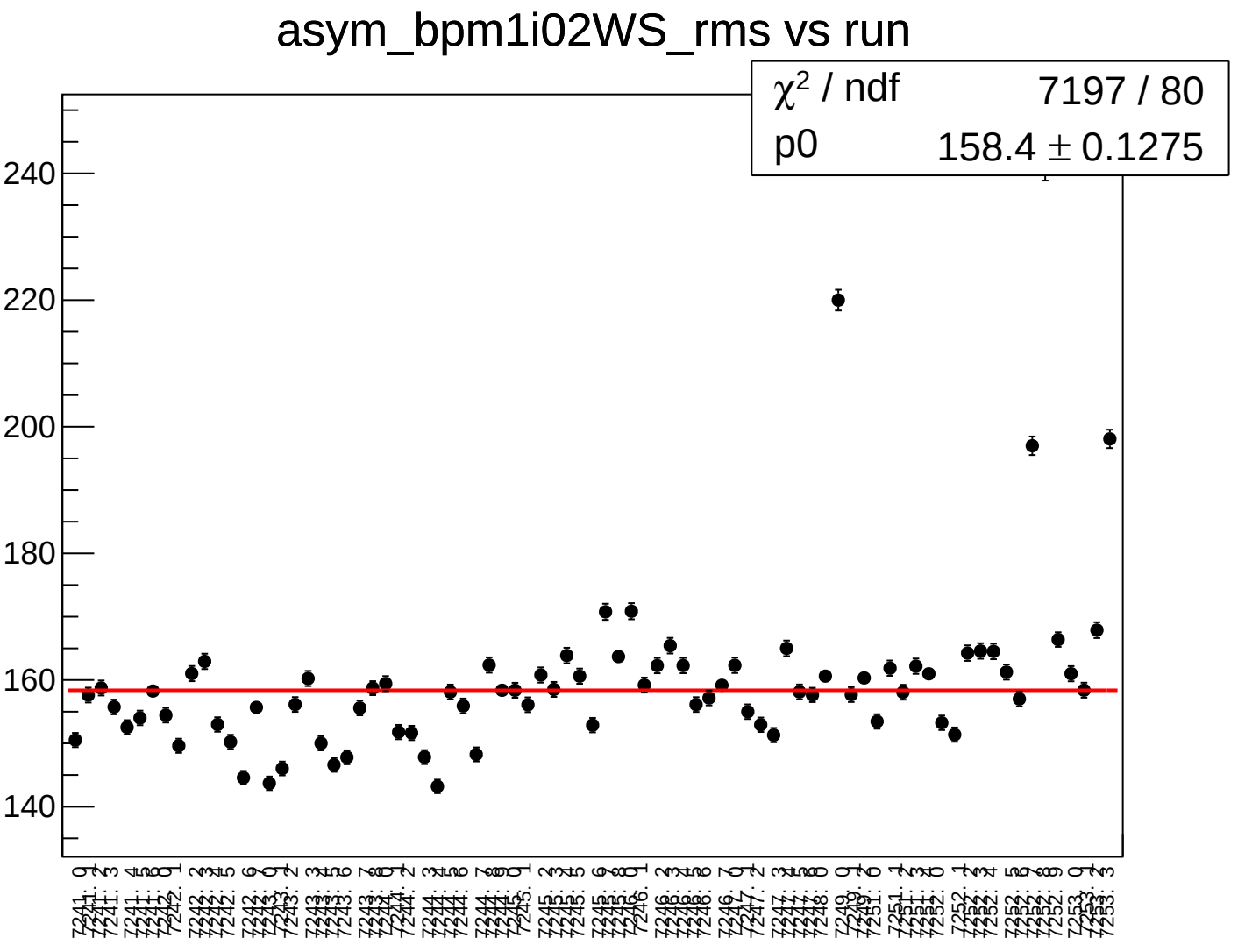

asym_bpm0i07WS_mean vs run
χ² / ndf 87.63 / 80
p0 2813 ± 277.9
pull
Entries 81
Mean 47.85
Std Dev 1.216

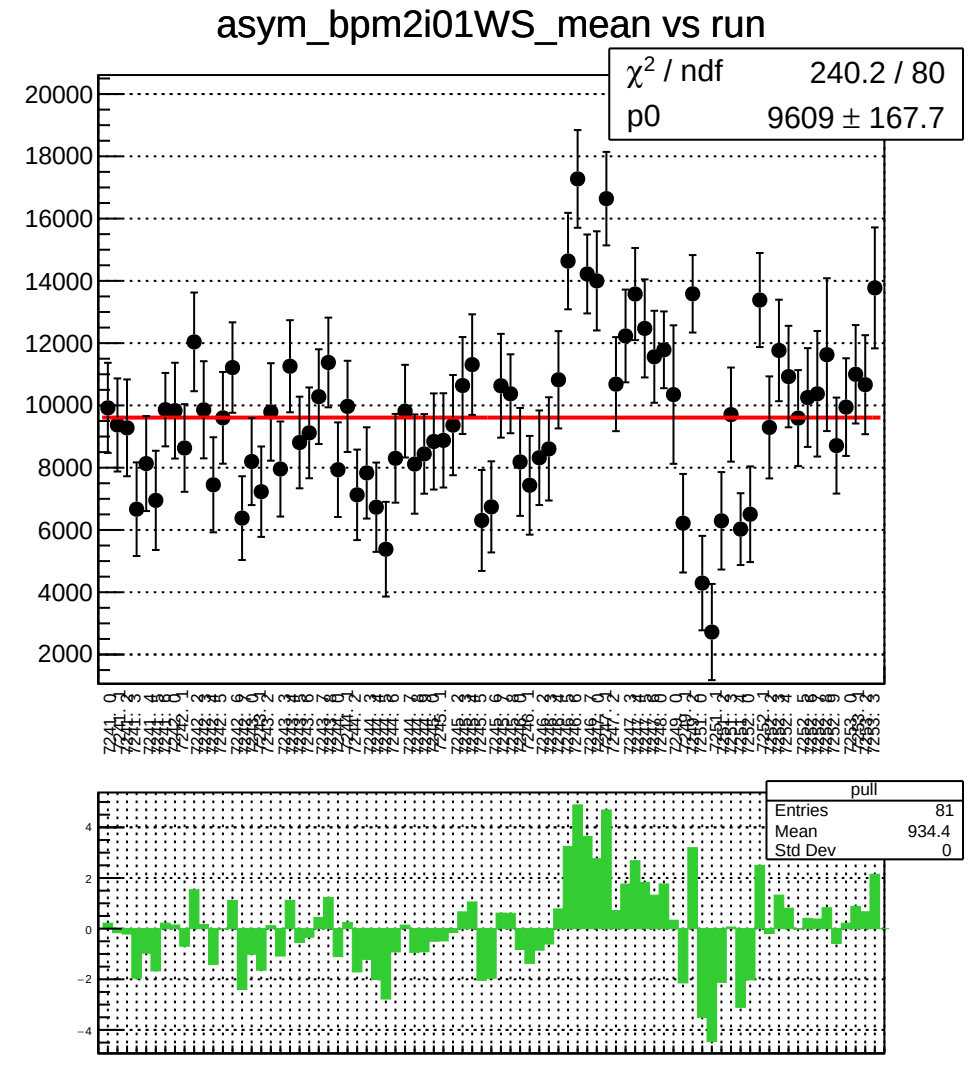

pull1D
Entries 81
Mean −0.02263
Std Dev 1.04

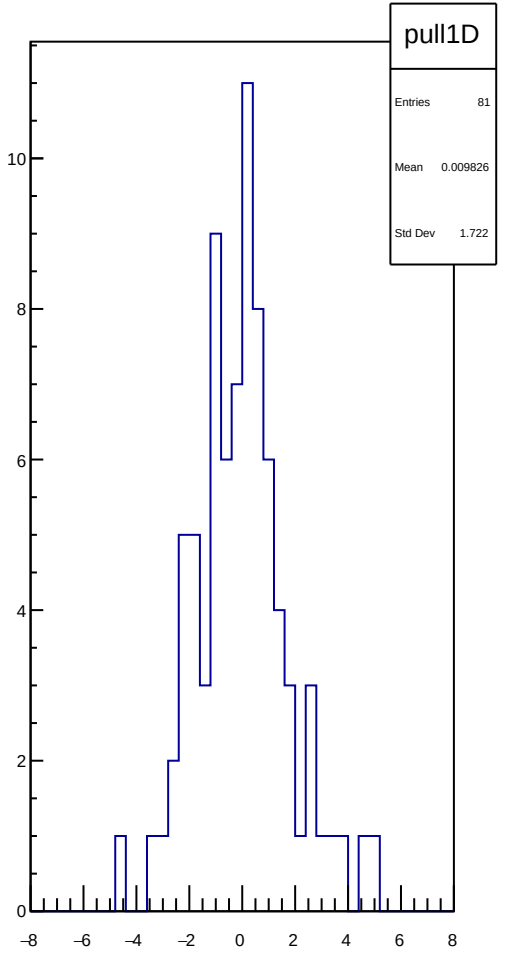

asym_bpm0i07WS_rms vs run
χ² / ndf 2.952e+04 / 80
p0 242.3 ± 0.1965
400
350
300
250
200

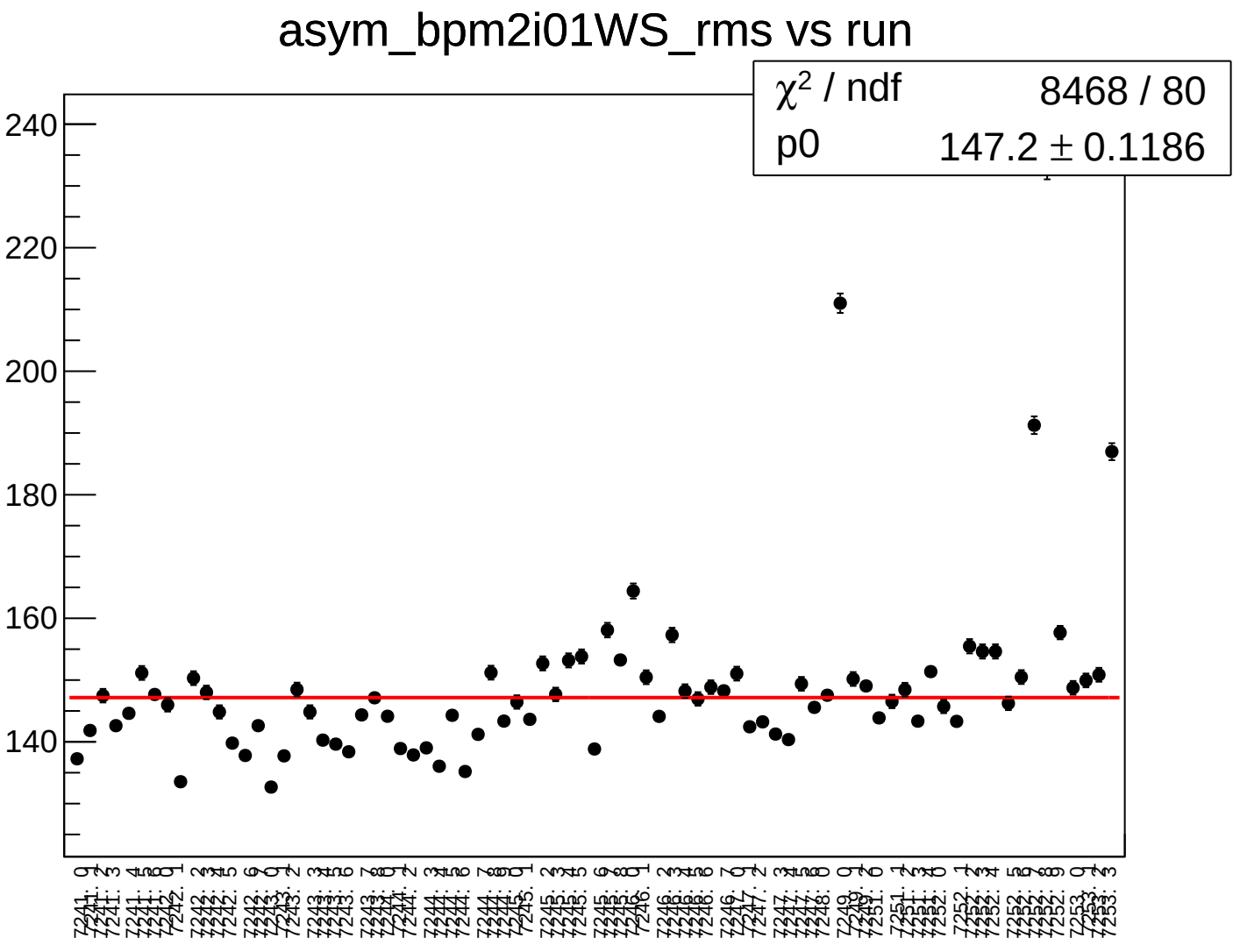

asym_bpm1i02WS_mean vs run
χ^2 / ndf 185.6 / 80
p0 9593 ± 180.4
pull
Entries 81
Mean −4494
Std Dev 0

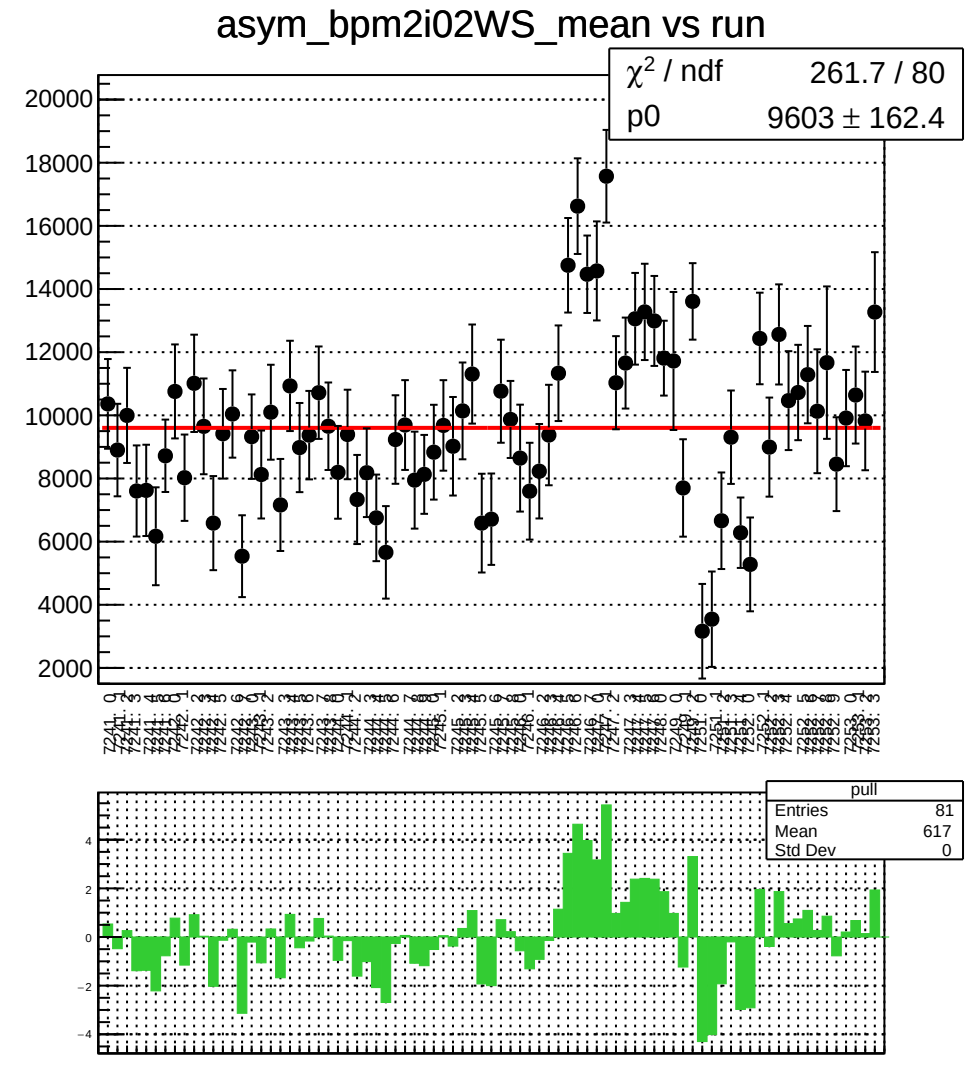

pull1D
Entries 81
Mean −0.0007888
Std Dev 1.514

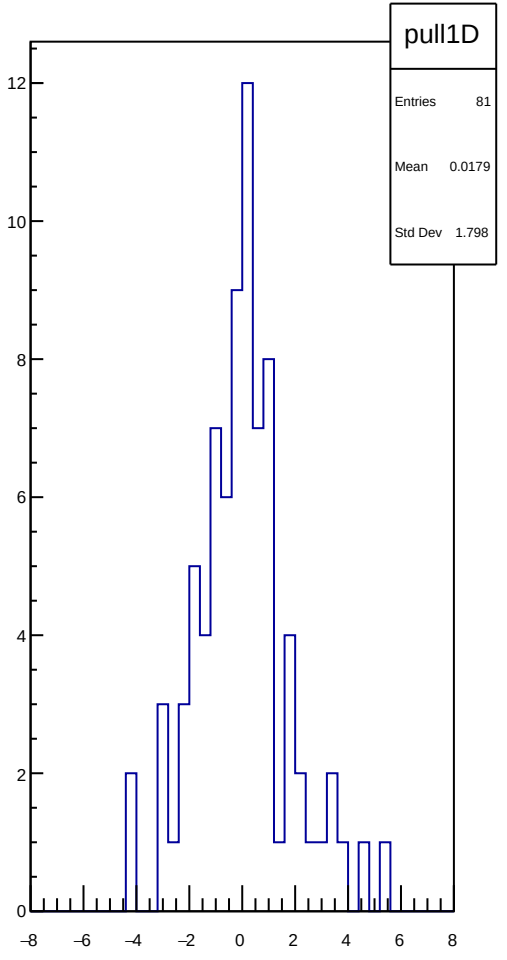

asym_bpm1i02WS_rms vs run
χ² / ndf 7197 / 80
p0 158.4 ± 0.1275
240
220
200
180
160
140

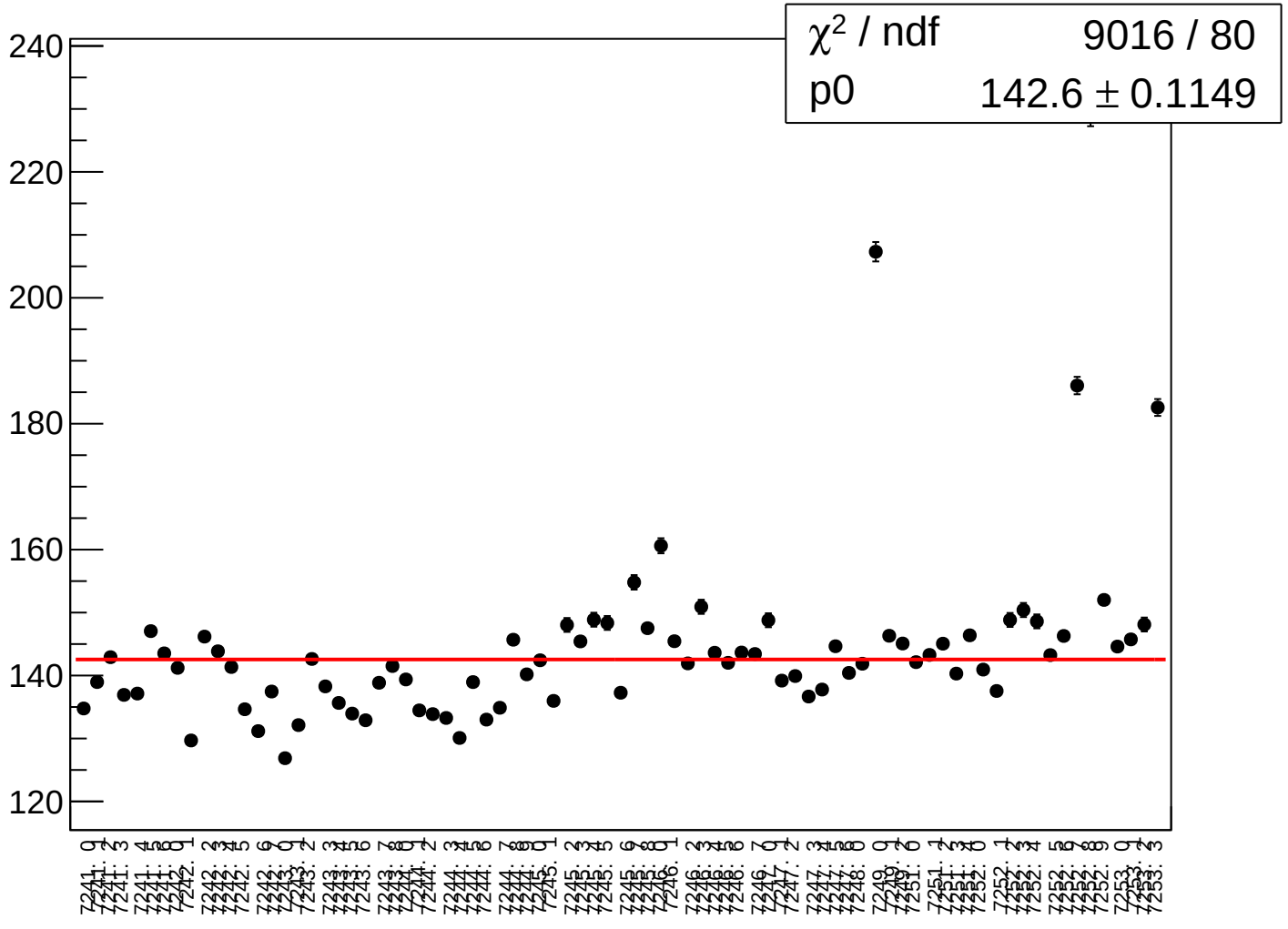

asym_bpm2i01WS_mean vs run
χ² / ndf 240.2 / 80
p0 9609 ± 167.7
pull
Entries 81
Mean 934.4
Std Dev 0

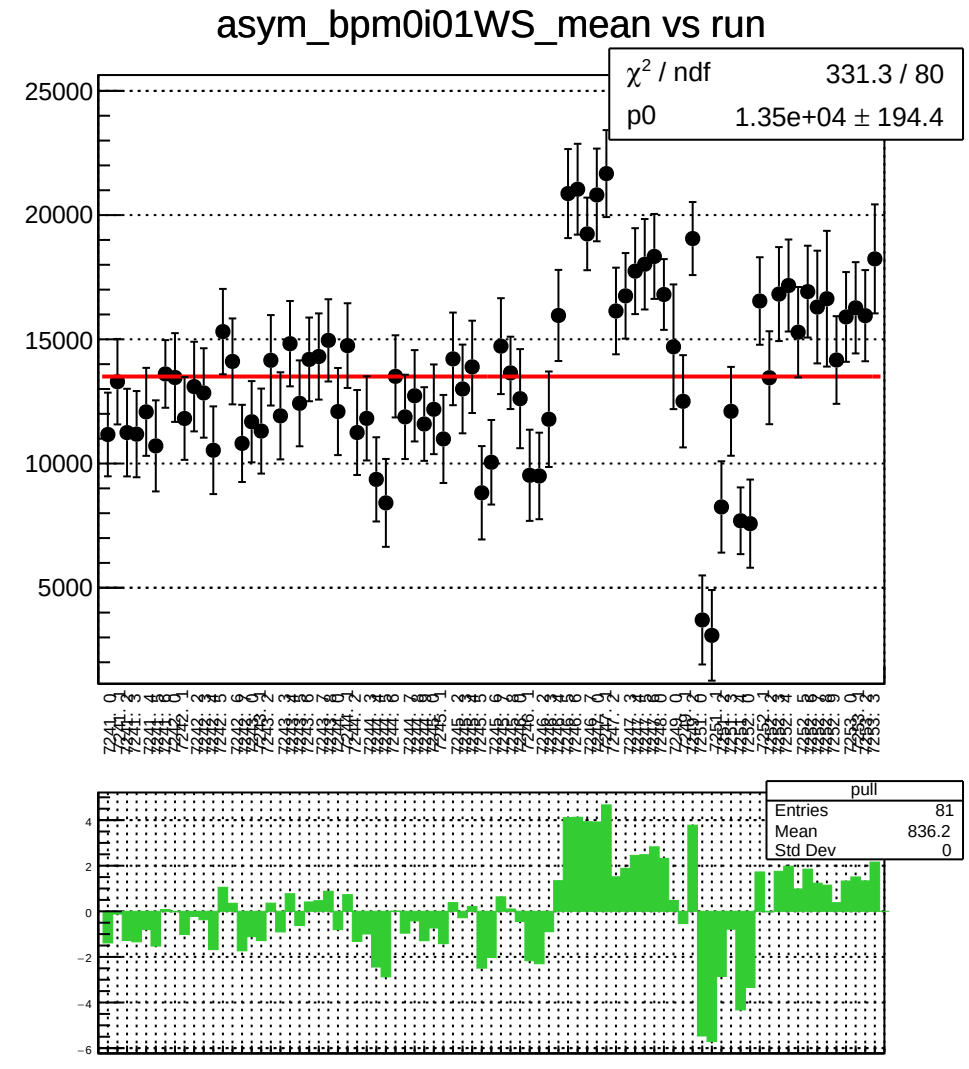

pull1D
Entries 81
Mean 0.009826
Std Dev 1.722

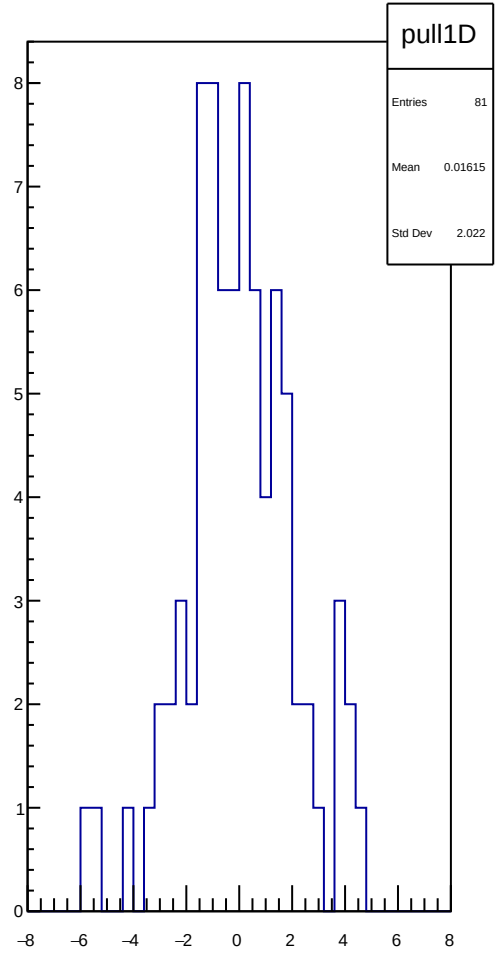

asym_bpm2i01WS_rms vs run
χ^2 / ndf 8468 / 80
p0 147.2 ± 0.1186
240
220
200
180
160
140

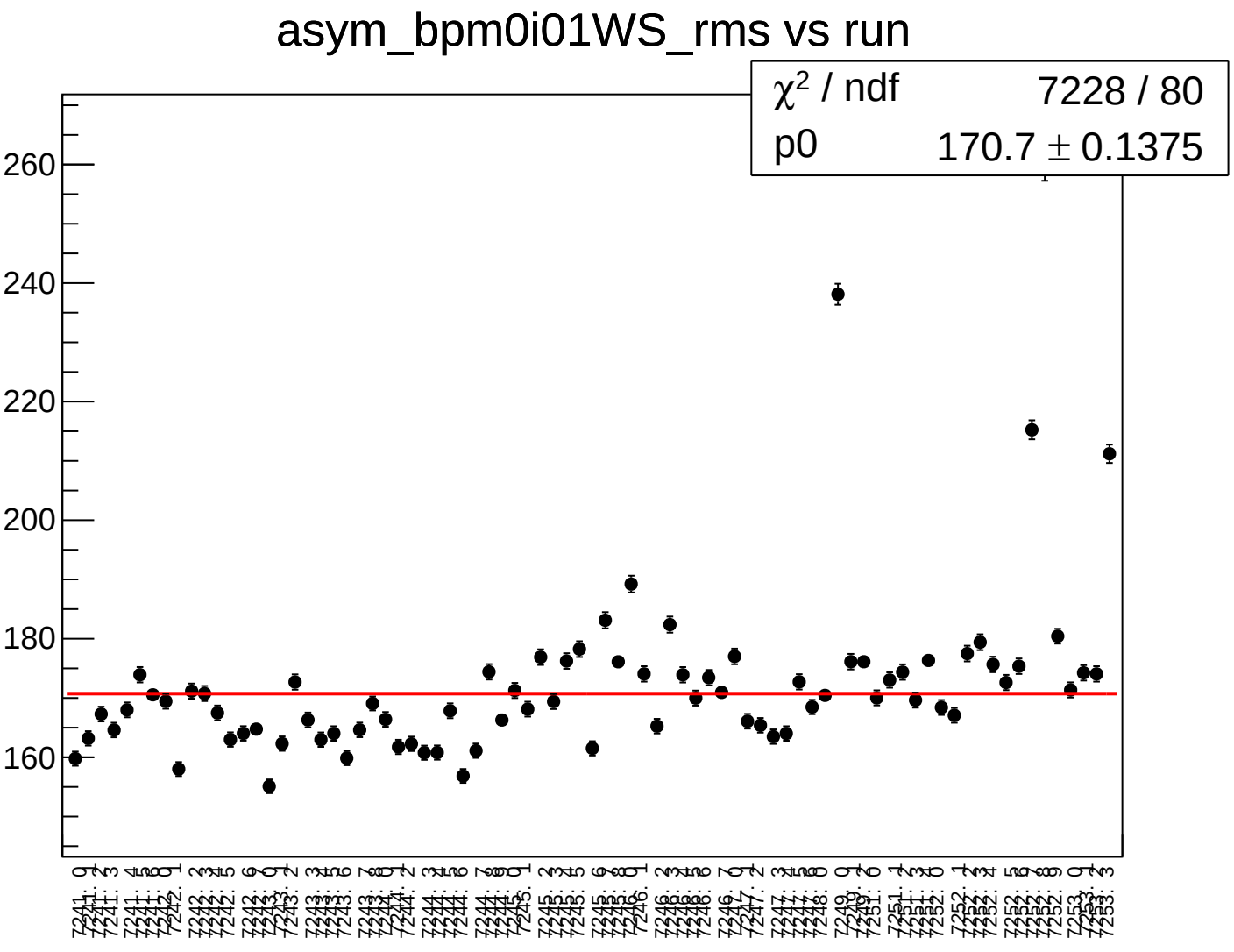

asym_bpm2i02WS_mean vs run
χ² / ndf 261.7 / 80
p0 9603 ± 162.4
pull
Entries 81
Mean 617
Std Dev 0

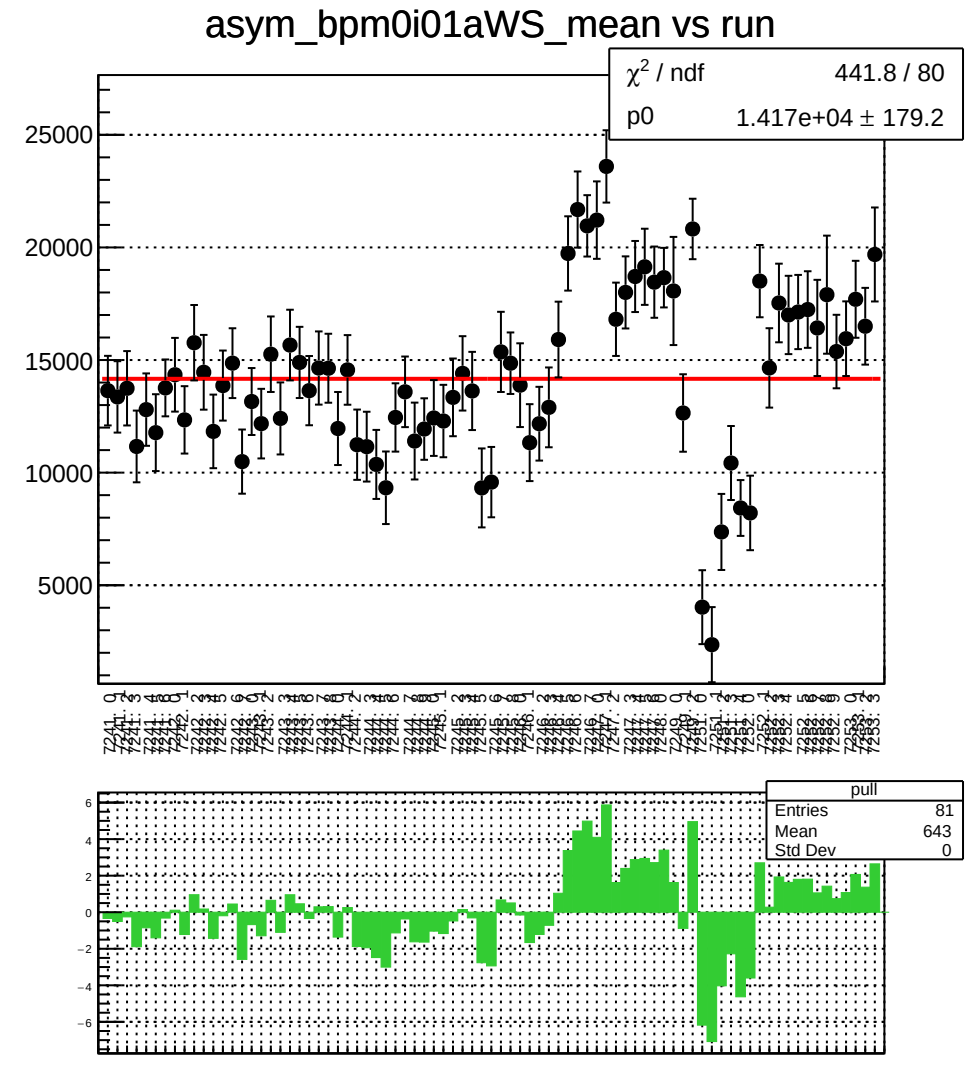

pull1D
Entries 81
Mean 0.0179
Std Dev 1.798

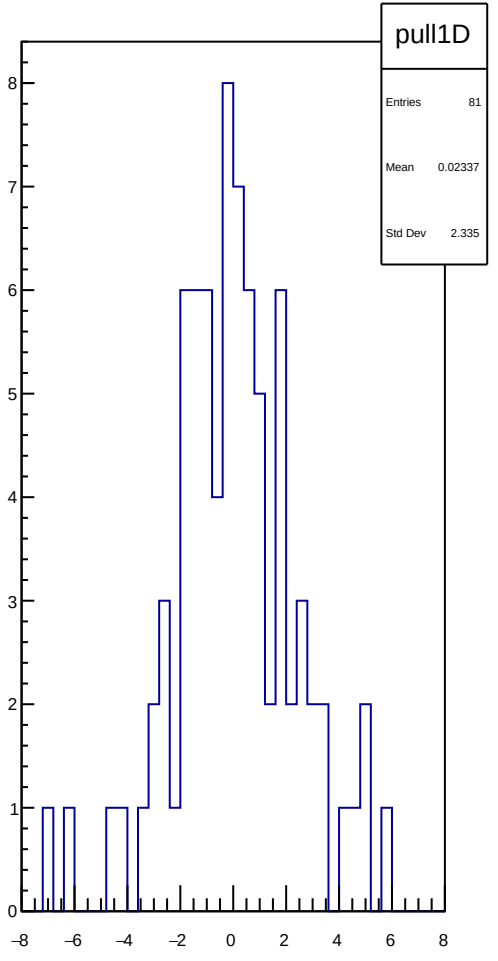

asym_bpm2i02WS_rms vs run
χ^2 / ndf 9016 / 80
p0 142.6 ± 0.1149
240
220
200
180
160
140
120

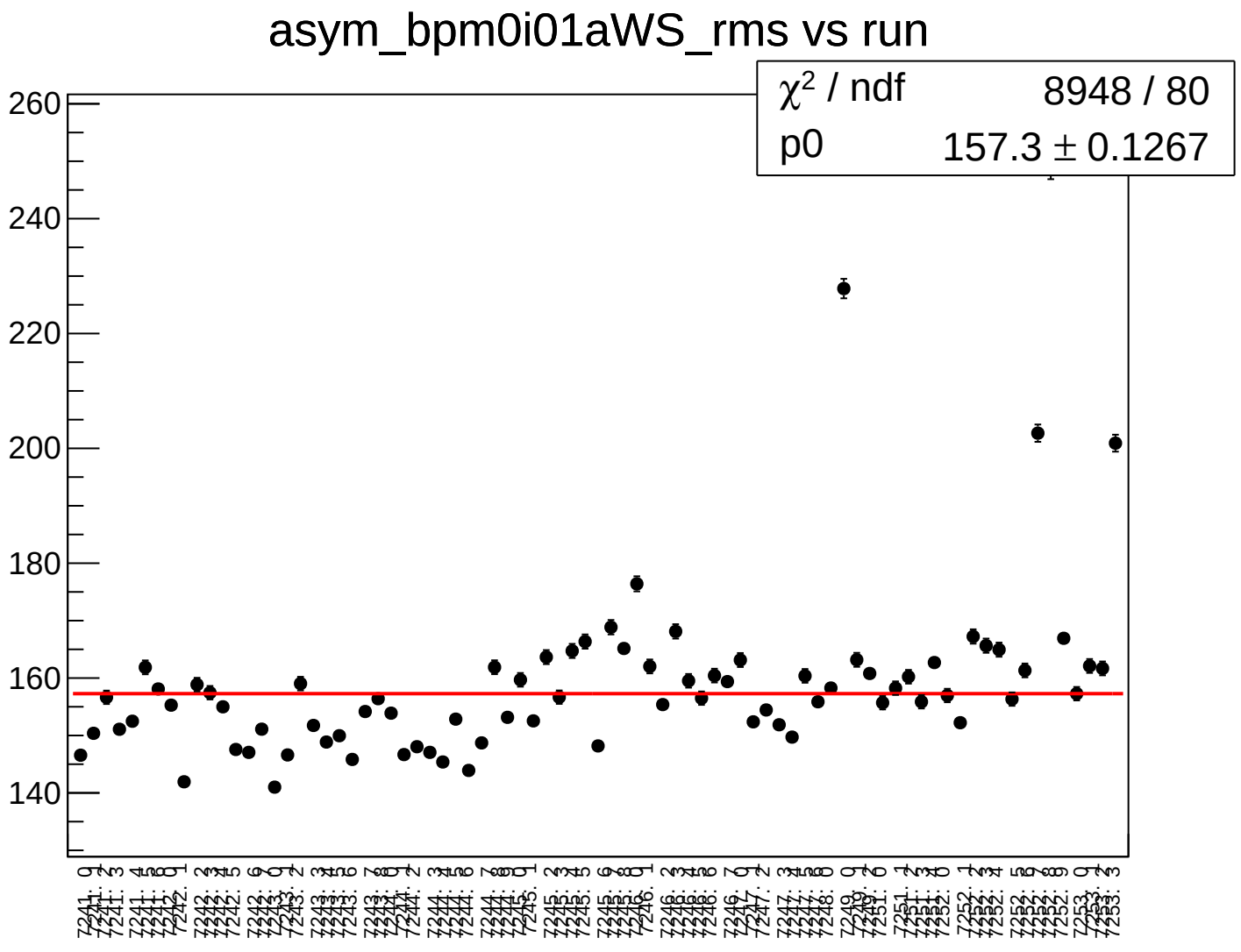

asym_bpm0i01WS_mean vs run
χ² / ndf 331.3 / 80
p0 1.35e+04 ± 194.4
pull
Entries 81
Mean 836.2
Std Dev 0

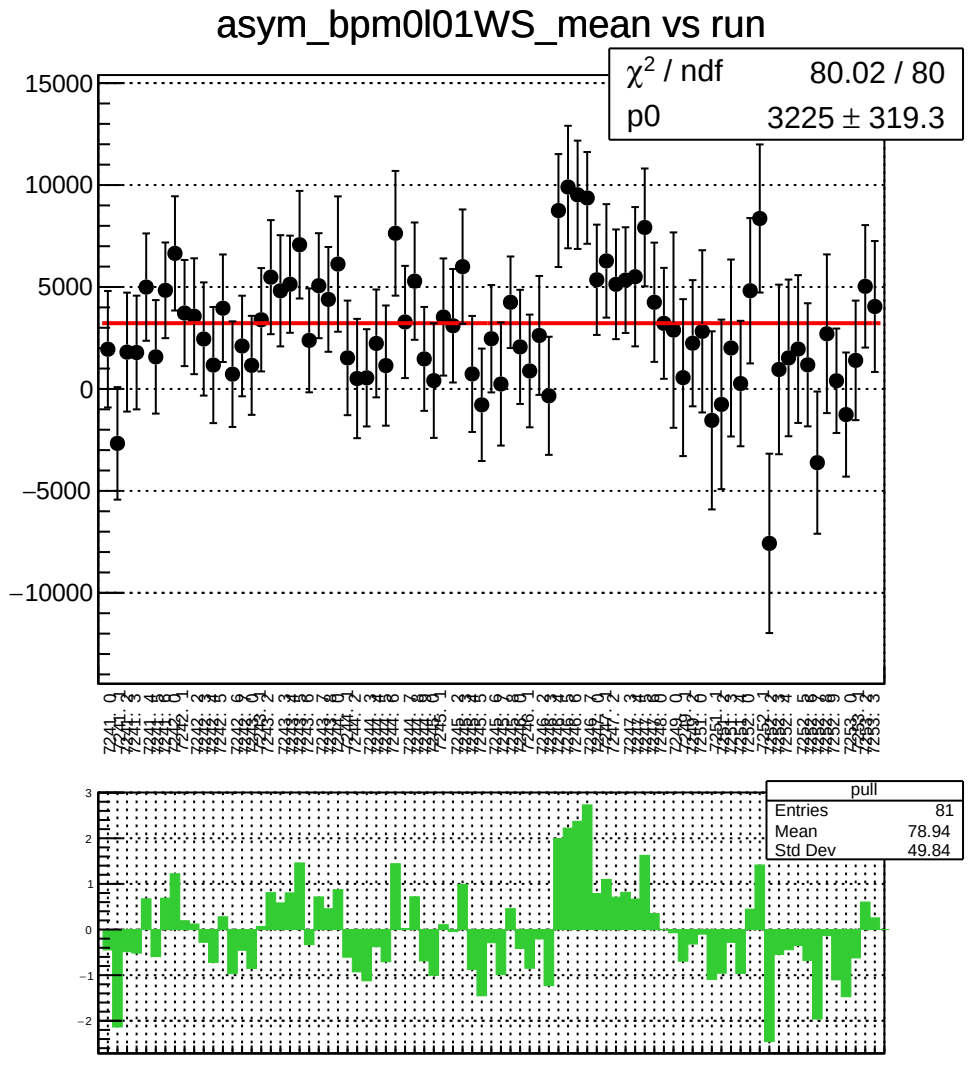

pull1D
Entries 81
Mean 0.01615
Std Dev 2.022

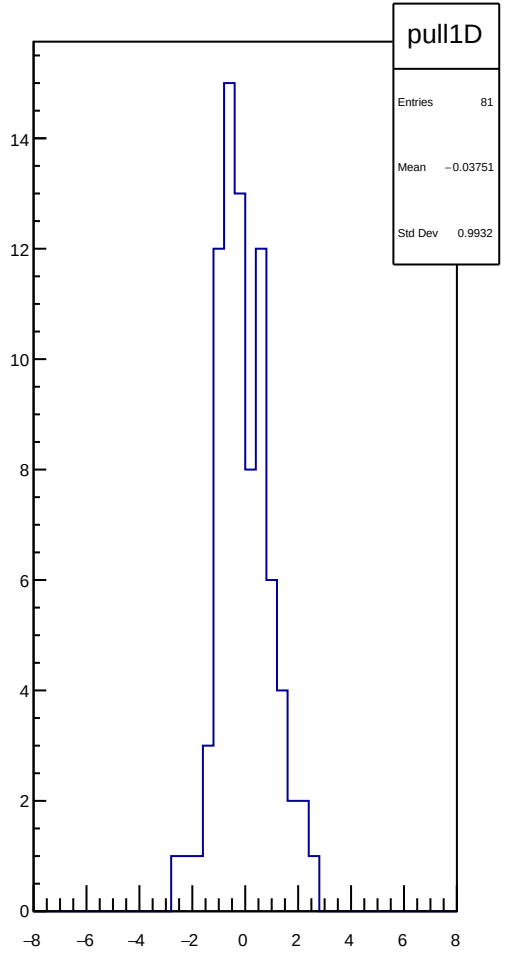

asym_bpm0i01WS_rms vs run
χ² / ndf 7228 / 80
p0 170.7 ± 0.1375
260
240
220
200
180
160

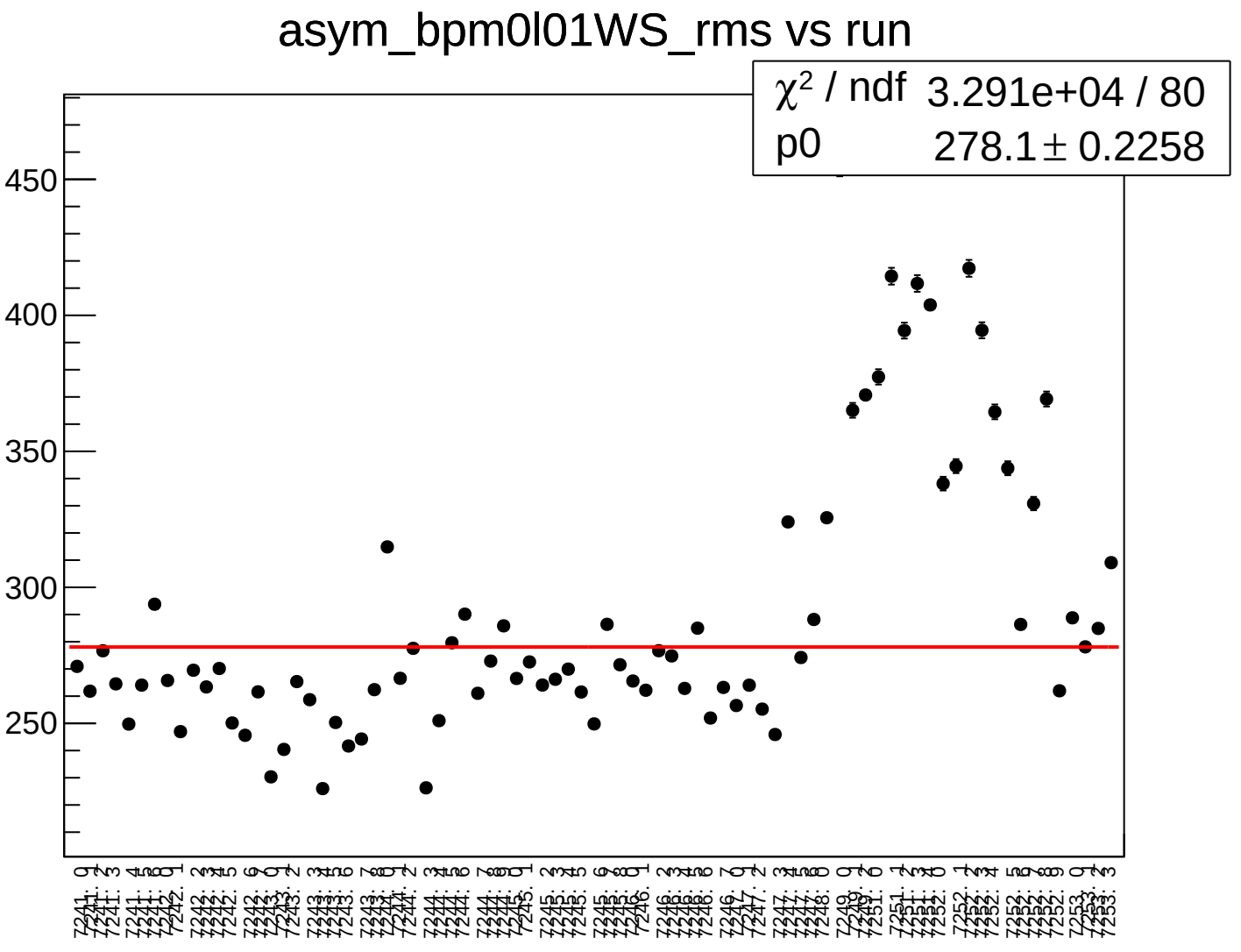

asym_bpm0i01aWS_mean vs run
χ² / ndf 441.8 / 80
p0 1.417e+04 ± 179.2
25000
20000
15000
10000
5000
pull
Entries 81
Mean 643
Std Dev 0
6
4
2
0
−2
−4
−6

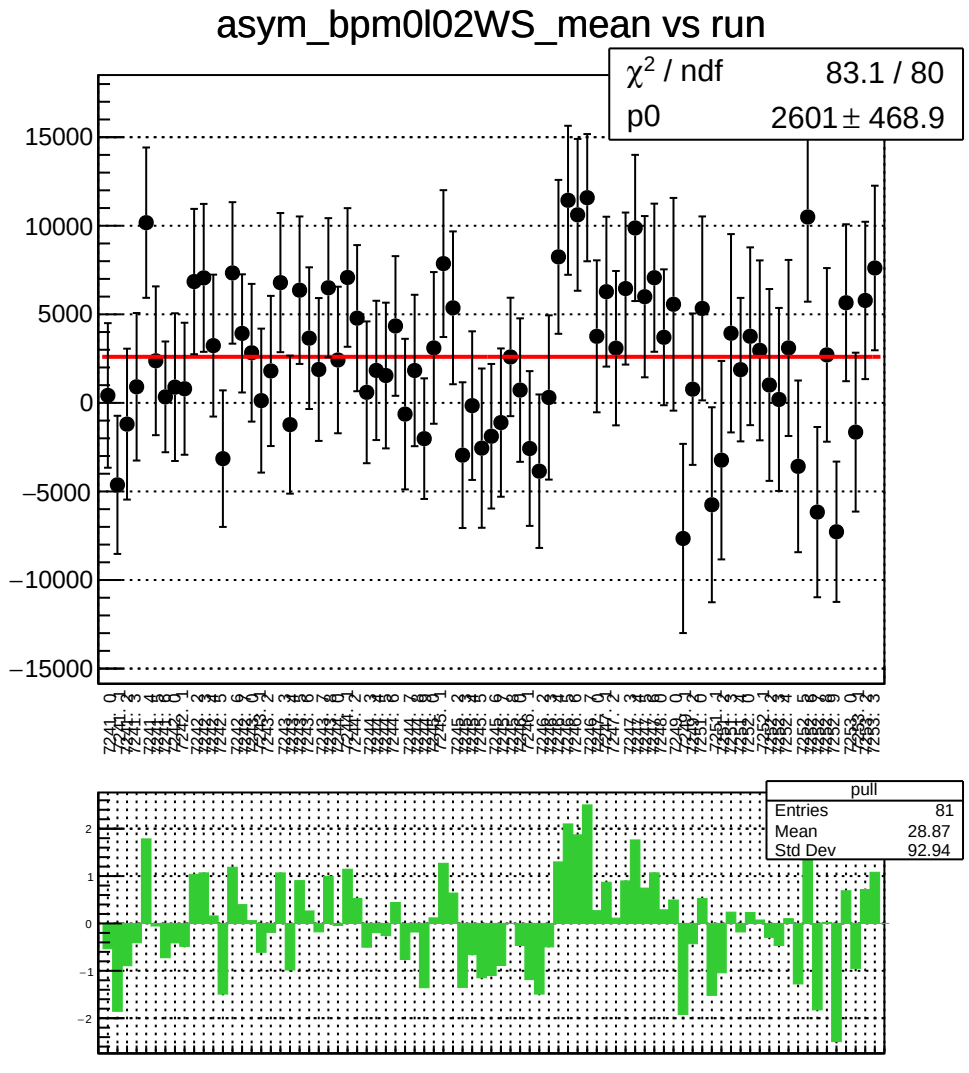

pull1D
Entries 81
Mean 0.02337
Std Dev 2.335
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

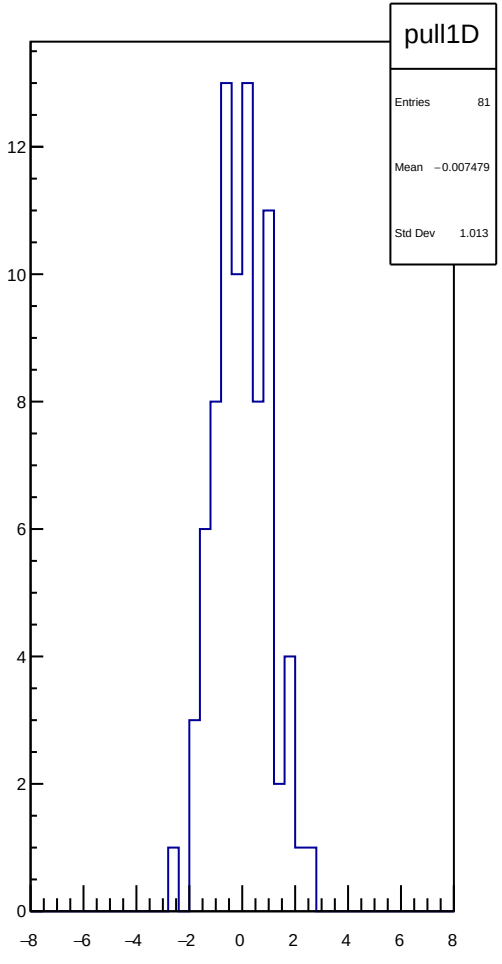

asym_bpm0i01aWS_rms vs run
χ² / ndf 8948 / 80
p0 157.3 ± 0.1267
260
240
220
200
180
160
140

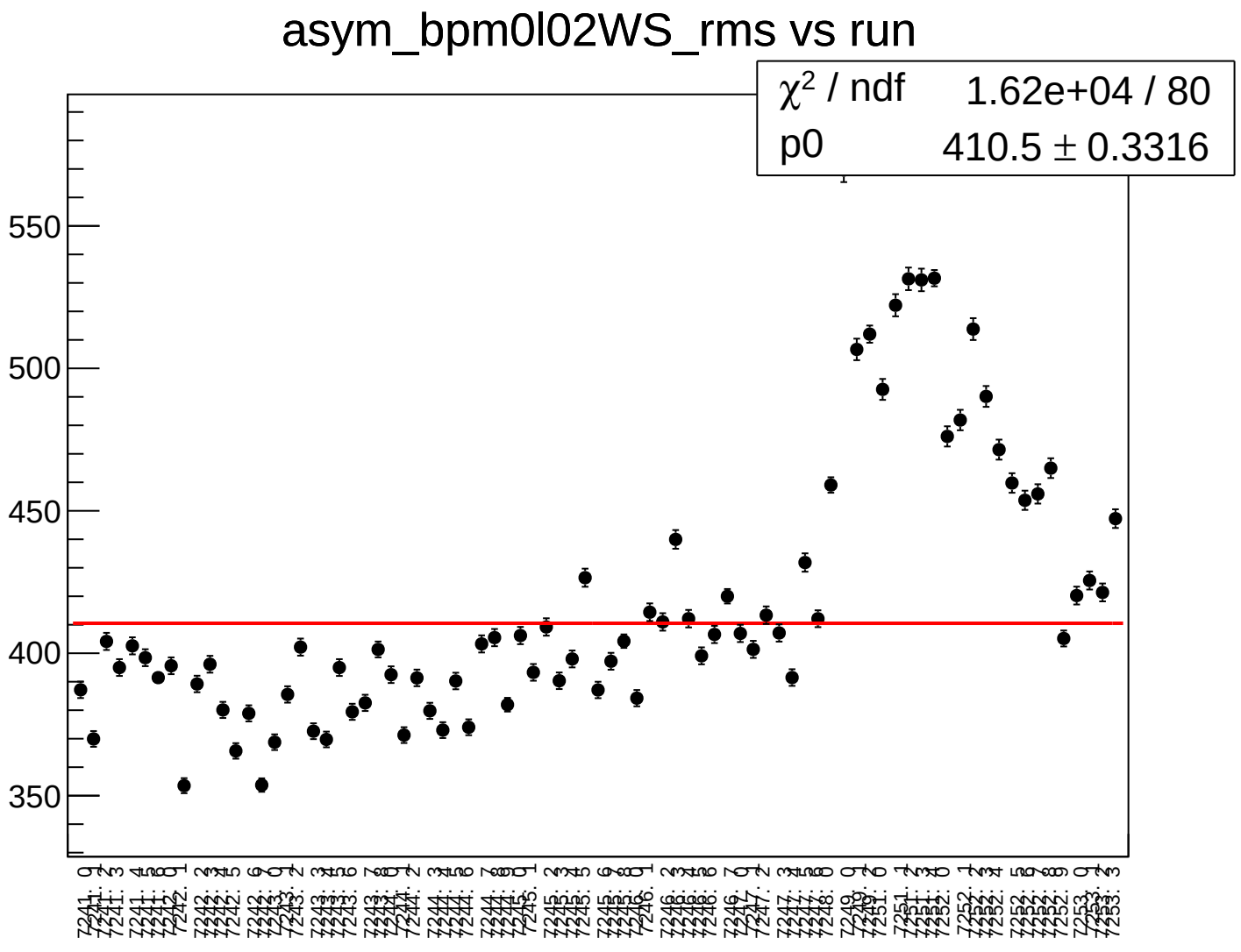

asym_bpm0l01WS_mean vs run
χ² / ndf 80.02 / 80
p0 3225 ± 319.3
15000
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 78.94
Std Dev 49.84
3
2
1
0
−1
−2

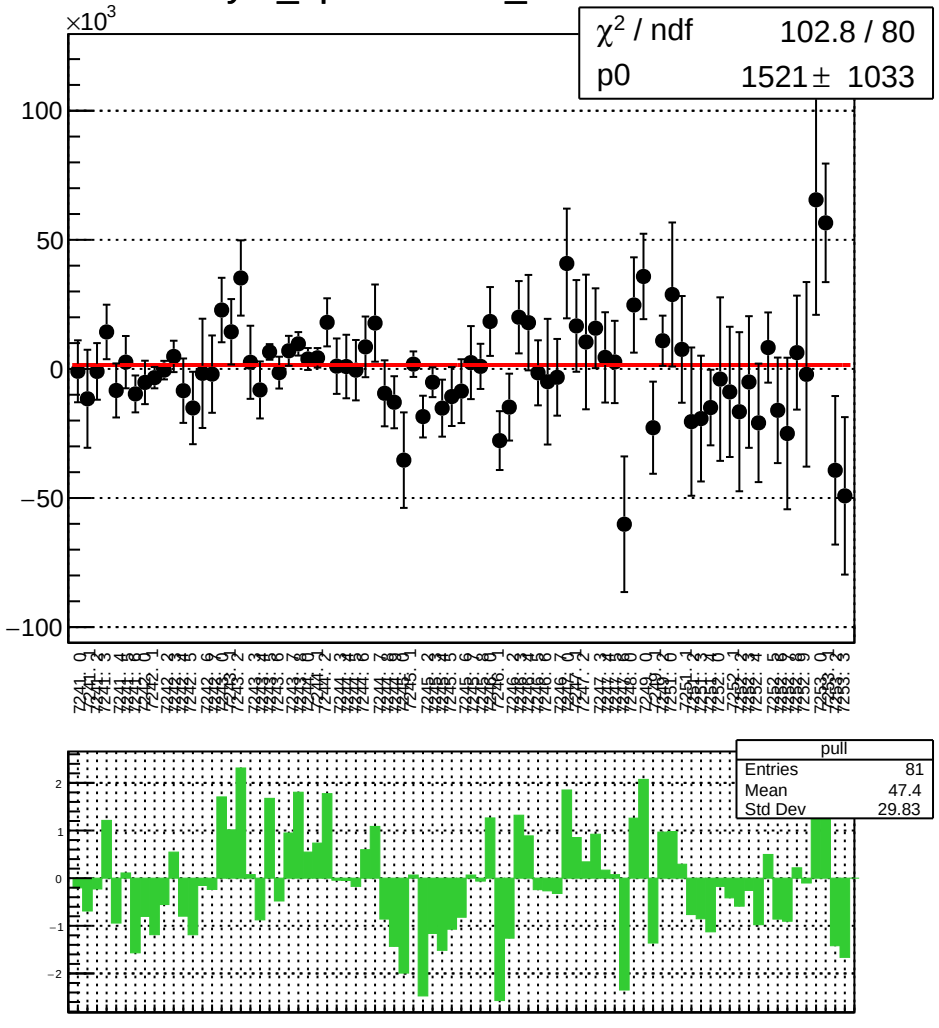

pull1D
Entries 81
Mean −0.03751
Std Dev 0.9932
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

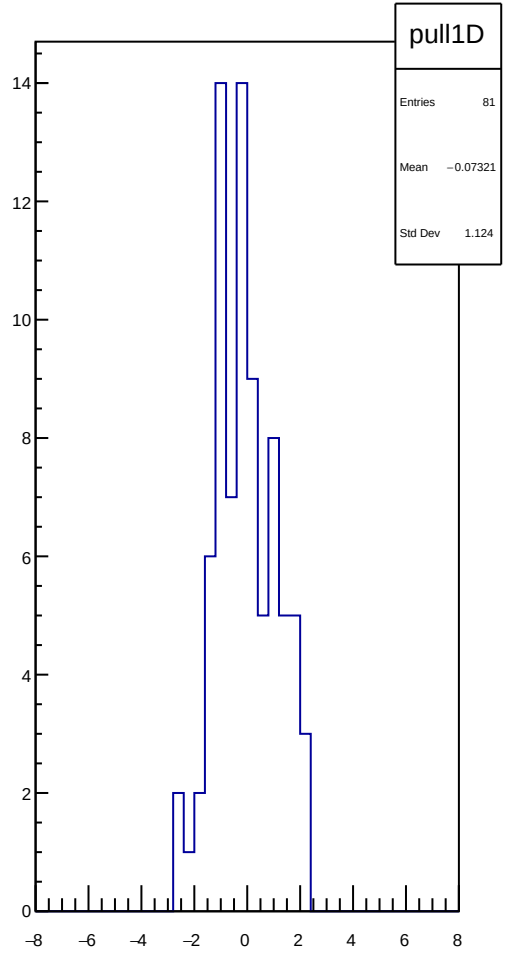

asym_bpm0l01WS_rms vs run
χ² / ndf 3.291e+04 / 80
p0 278.1 ± 0.2258
450
400
350
300
250

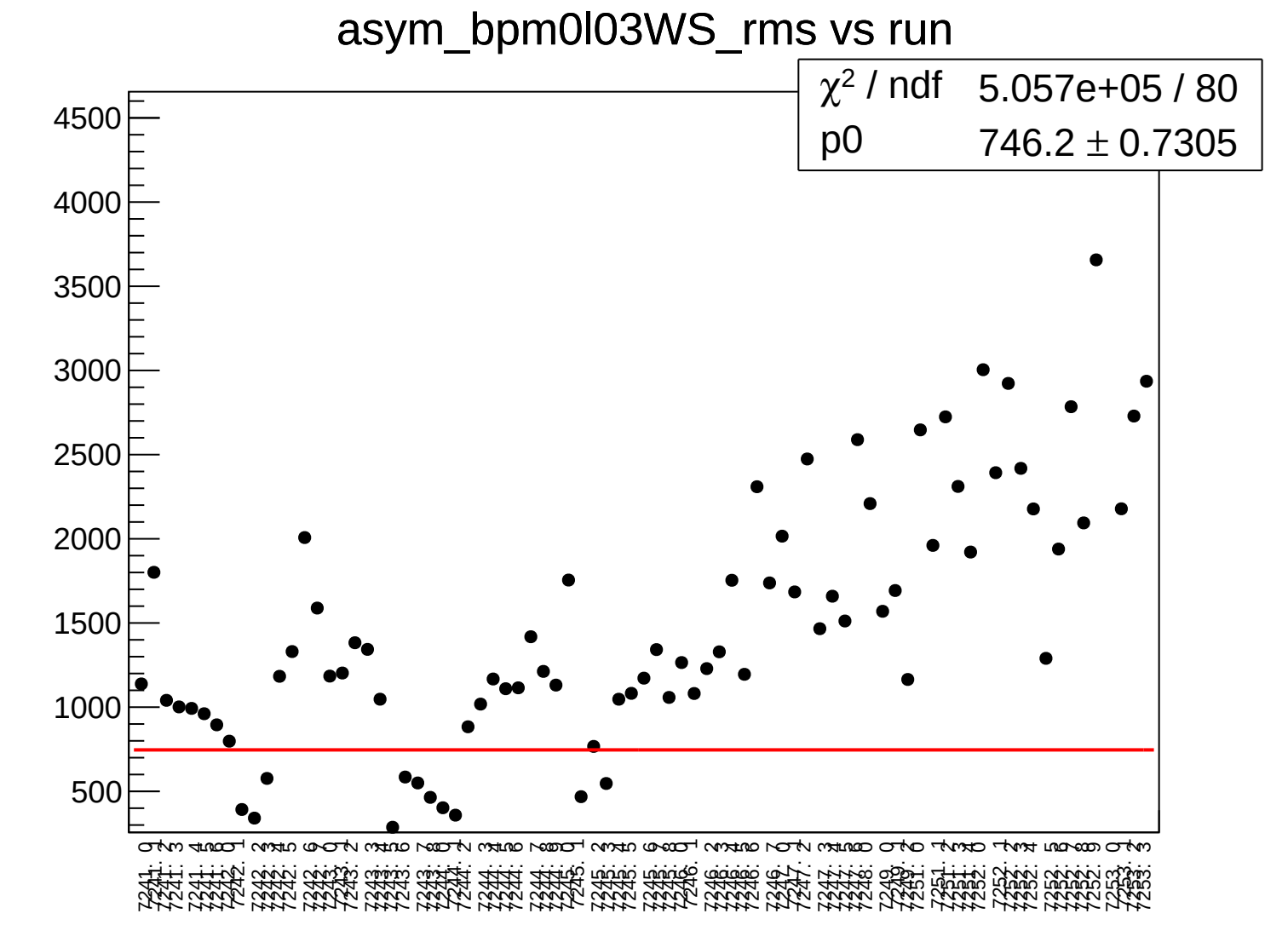

asym_bpm0l02WS_mean vs run
χ² / ndf 83.1 / 80
p0 2601 ± 468.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean 28.87
Std Dev 92.94
2
1
0
−1
−2

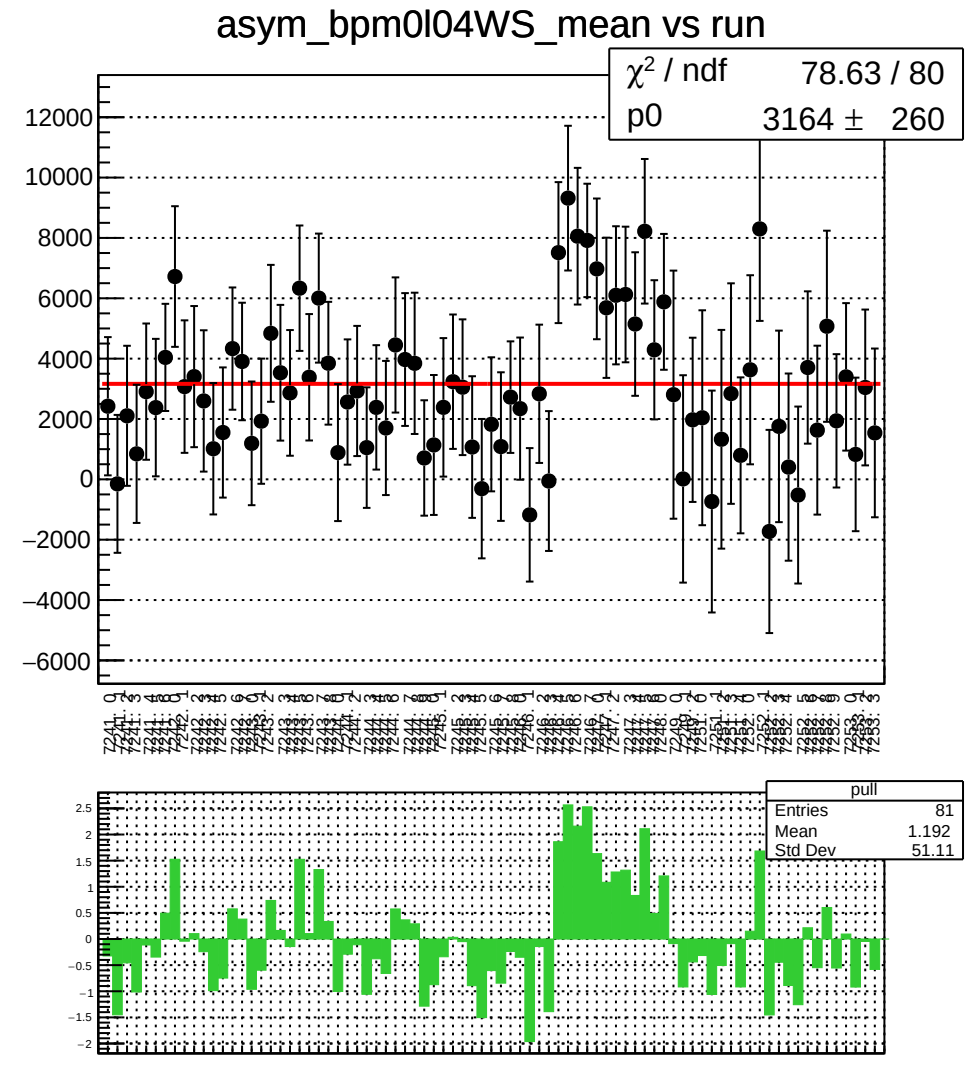

pull1D
Entries 81
Mean −0.007479
Std Dev 1.013
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

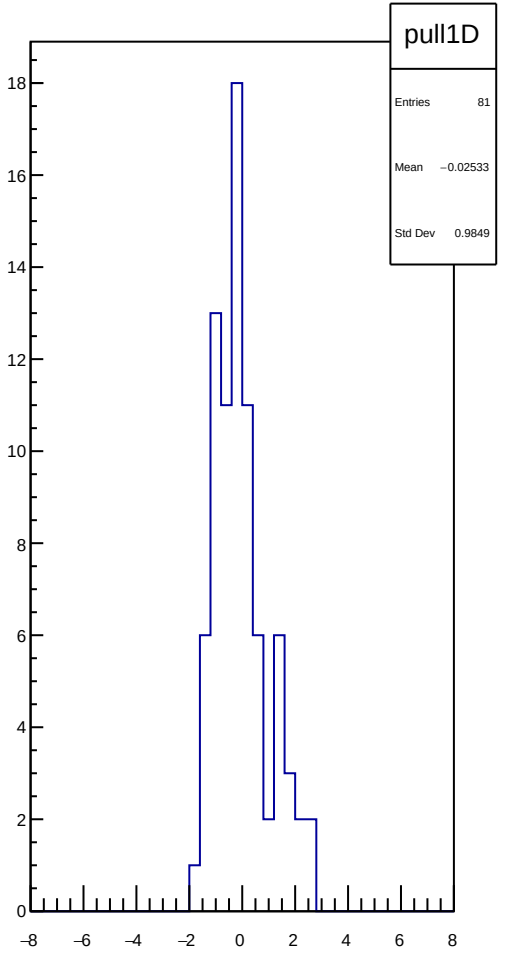

asym_bpm0l02WS_rms vs run
χ² / ndf 1.62e+04 / 80
p0 410.5 ± 0.3316
550
500
450
400
350

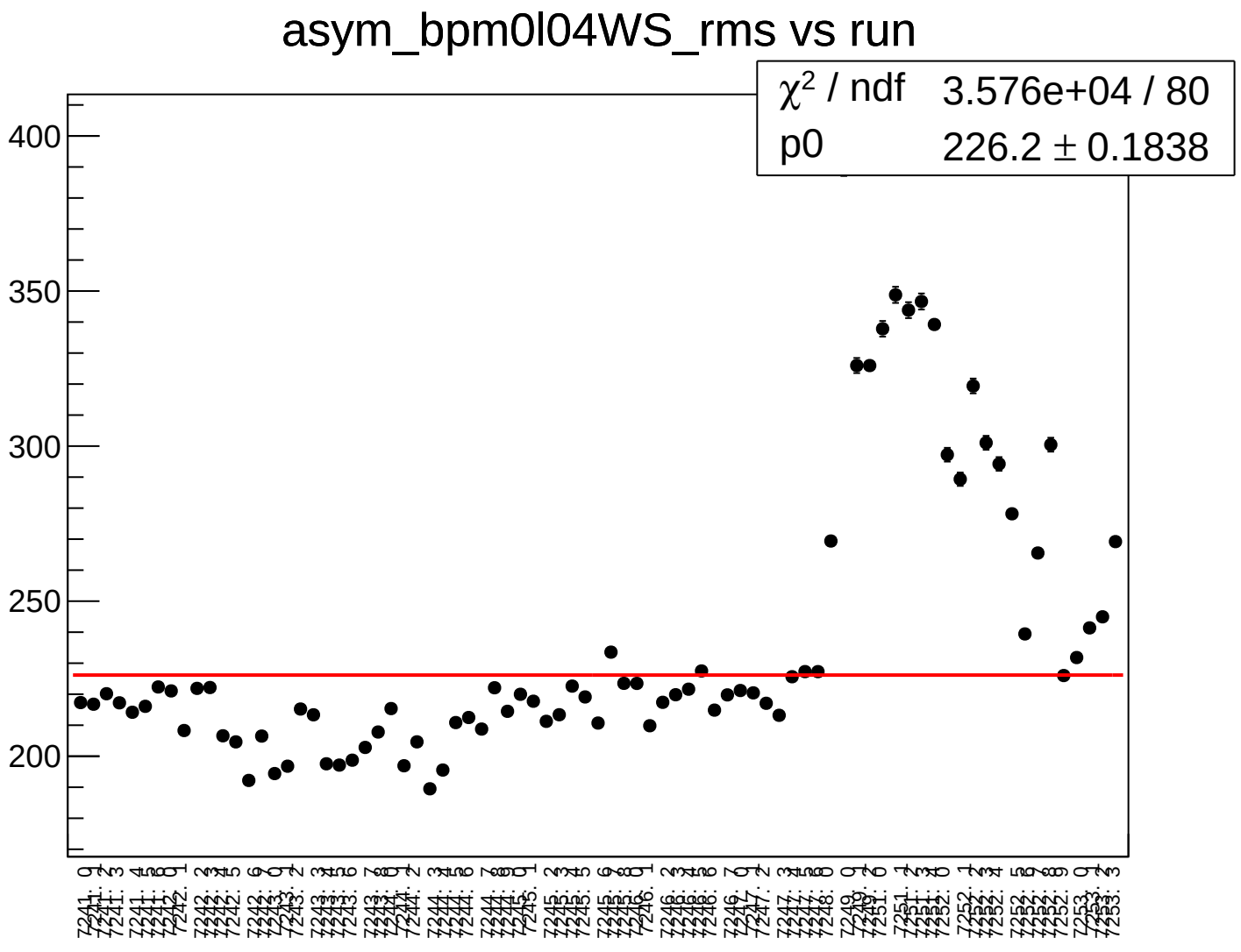

asym_bpm0l03WS_mean vs run
×10^3
χ² / ndf 102.8 / 80
p0 1521 ± 1033
100
50
0
−50
−100
pull
Entries 81
Mean 47.4
Std Dev 29.83
2
1
0
−1
−2

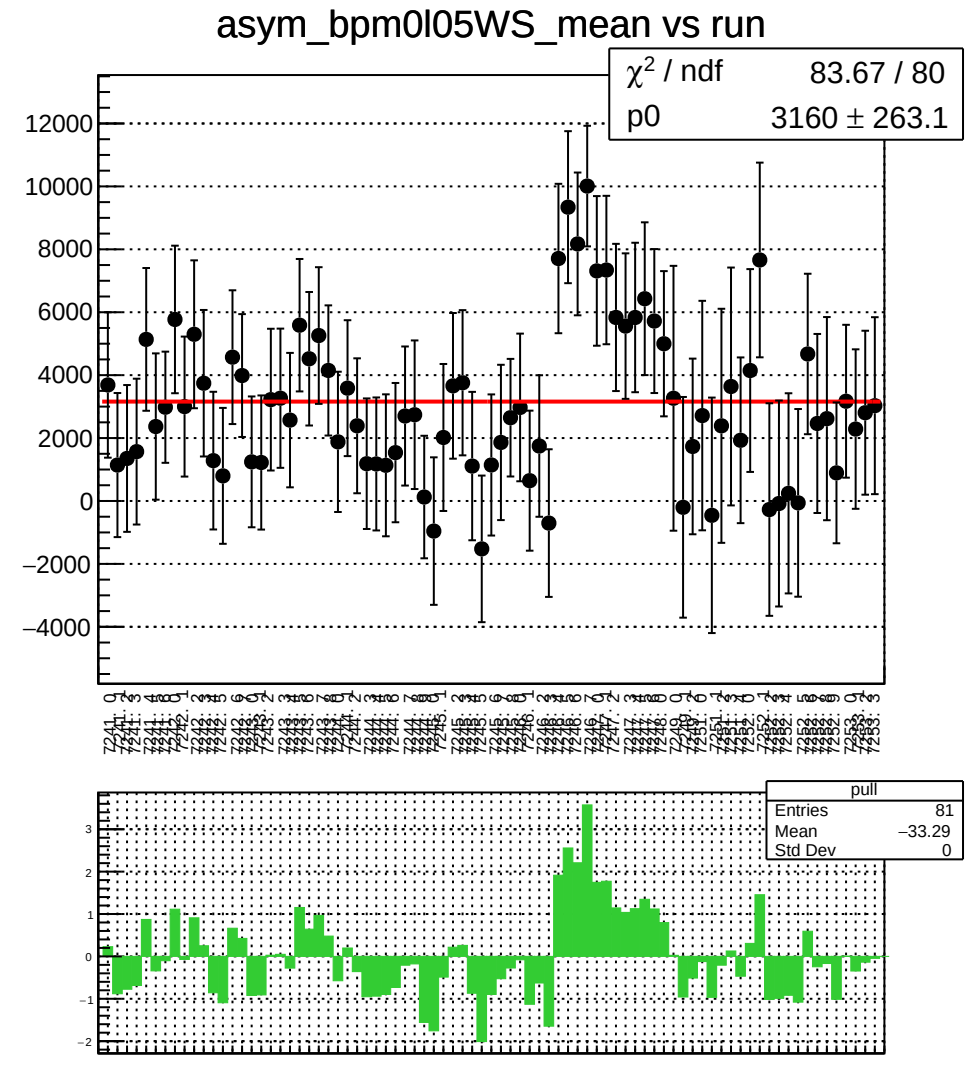

pull1D
Entries 81
Mean −0.07321
Std Dev 1.124
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

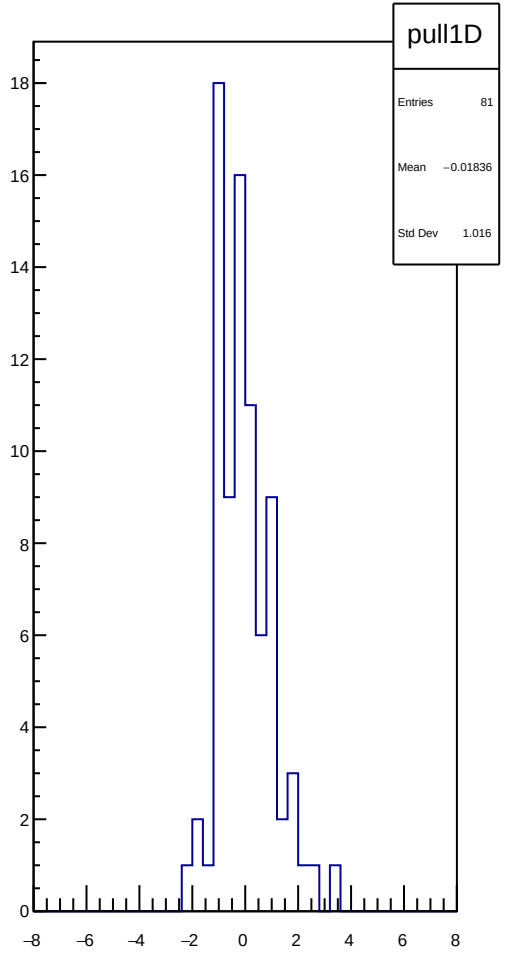

asym_bpm0l03WS_rms vs run
χ^2 / ndf 5.057e+05 / 80
p0 746.2 ± 0.7305
4500
4000
3500
3000
2500
2000
1500
1000
500

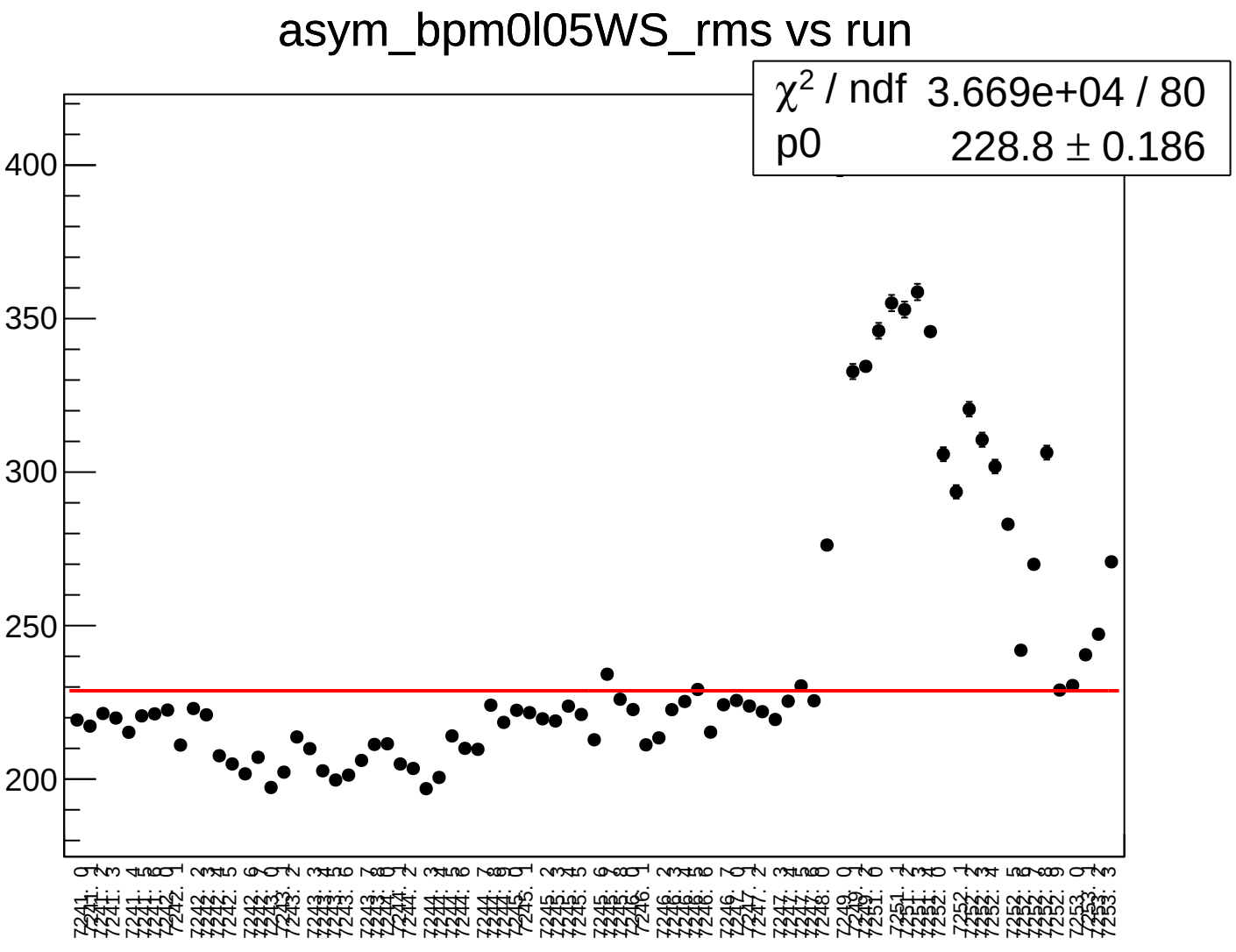

asym_bpm0l04WS_mean vs run
χ² / ndf 78.63 / 80
p0 3164 ± 260
pull
Entries 81
Mean 1.192
Std Dev 51.11

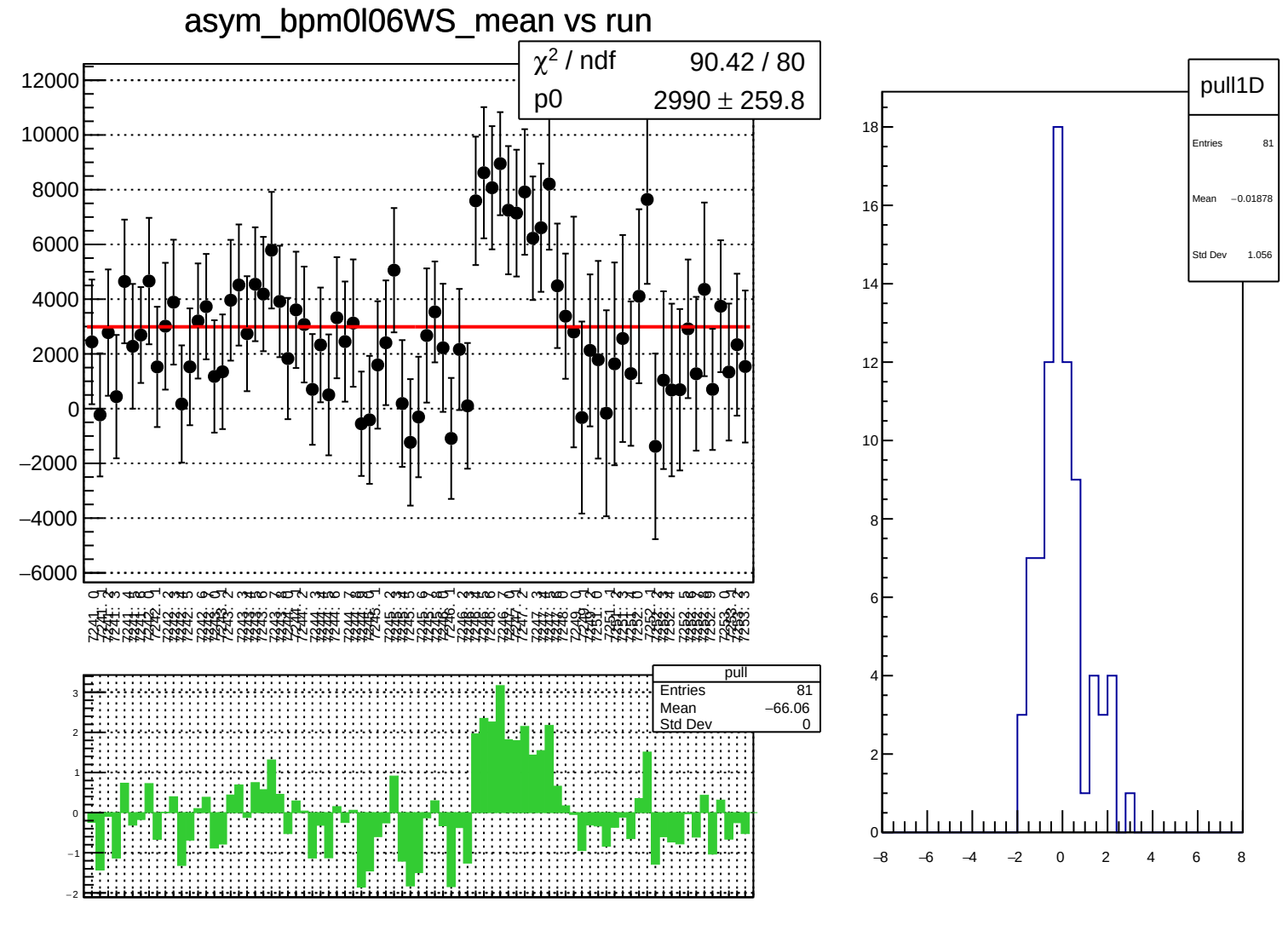

pull1D
Entries 81
Mean −0.02533
Std Dev 0.9849

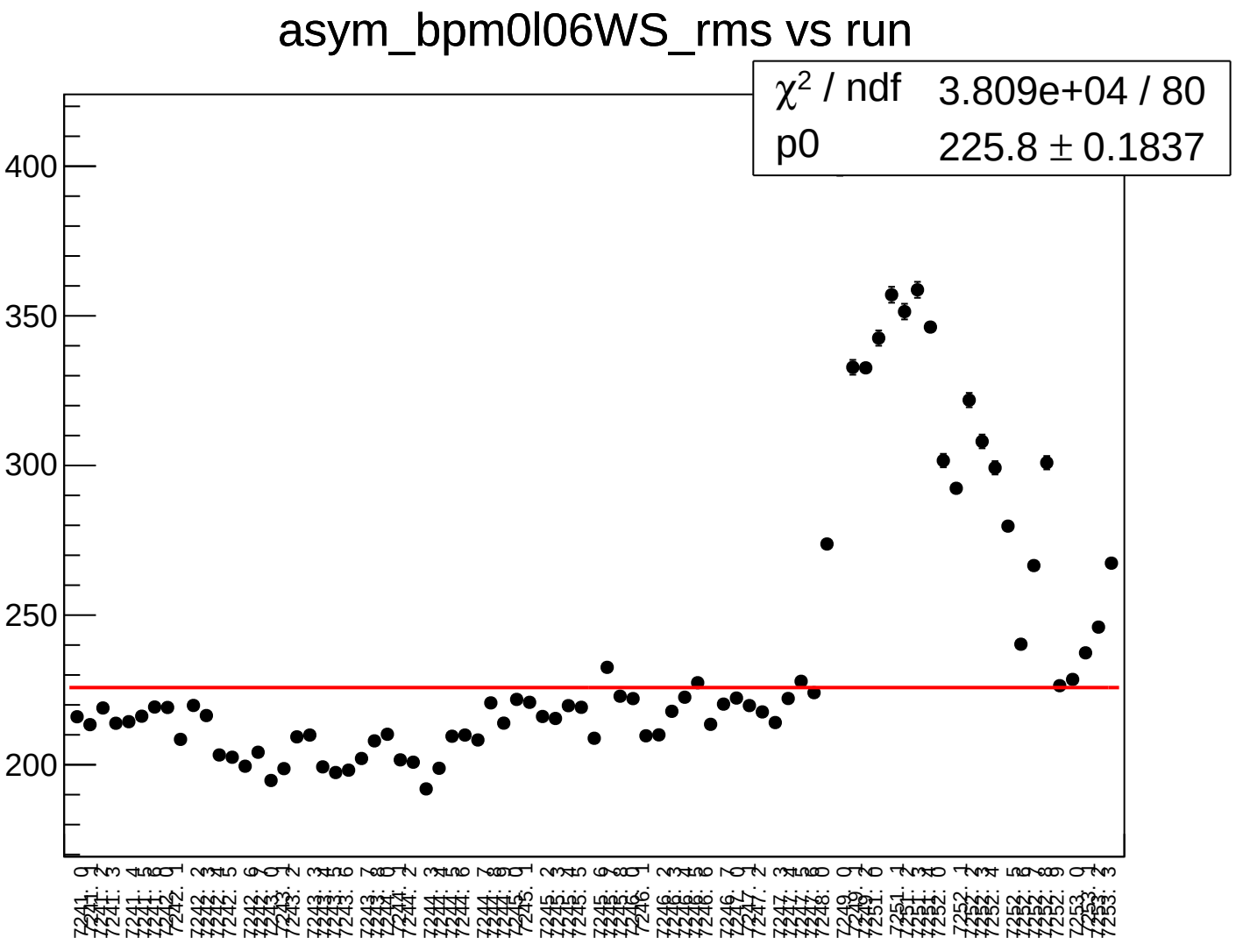

asym_bpm0l04WS_rms vs run
χ² / ndf 3.576e+04 / 80
p0 226.2 ± 0.1838
400
350
300
250
200

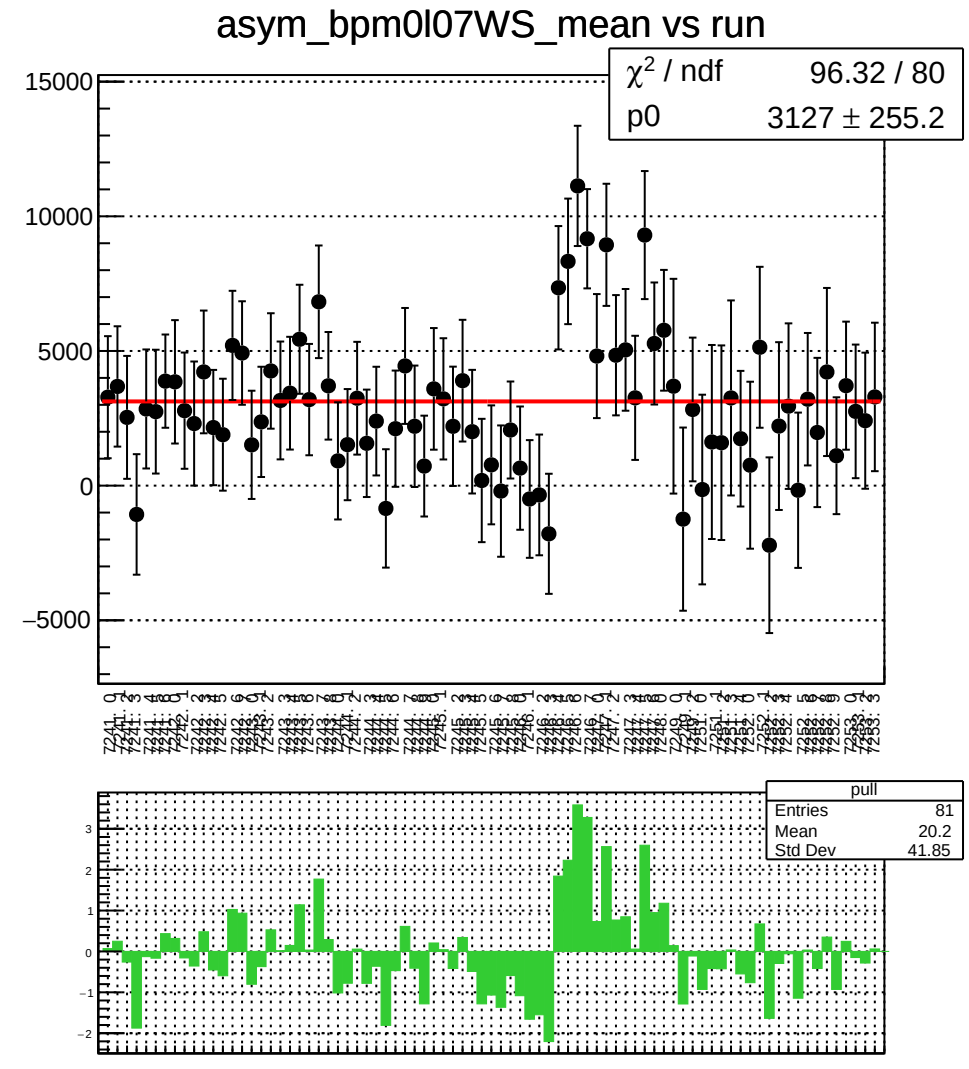

asym_bpm0l05WS_mean vs run
χ² / ndf 83.67 / 80
p0 3160 ± 263.1
pull
Entries 81
Mean −33.29
Std Dev 0

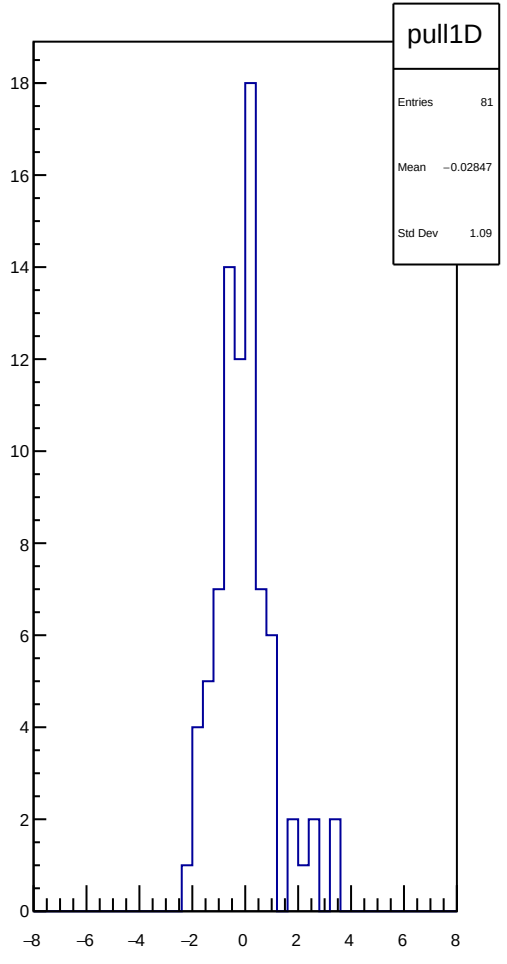

pull1D
Entries 81
Mean −0.01836
Std Dev 1.016

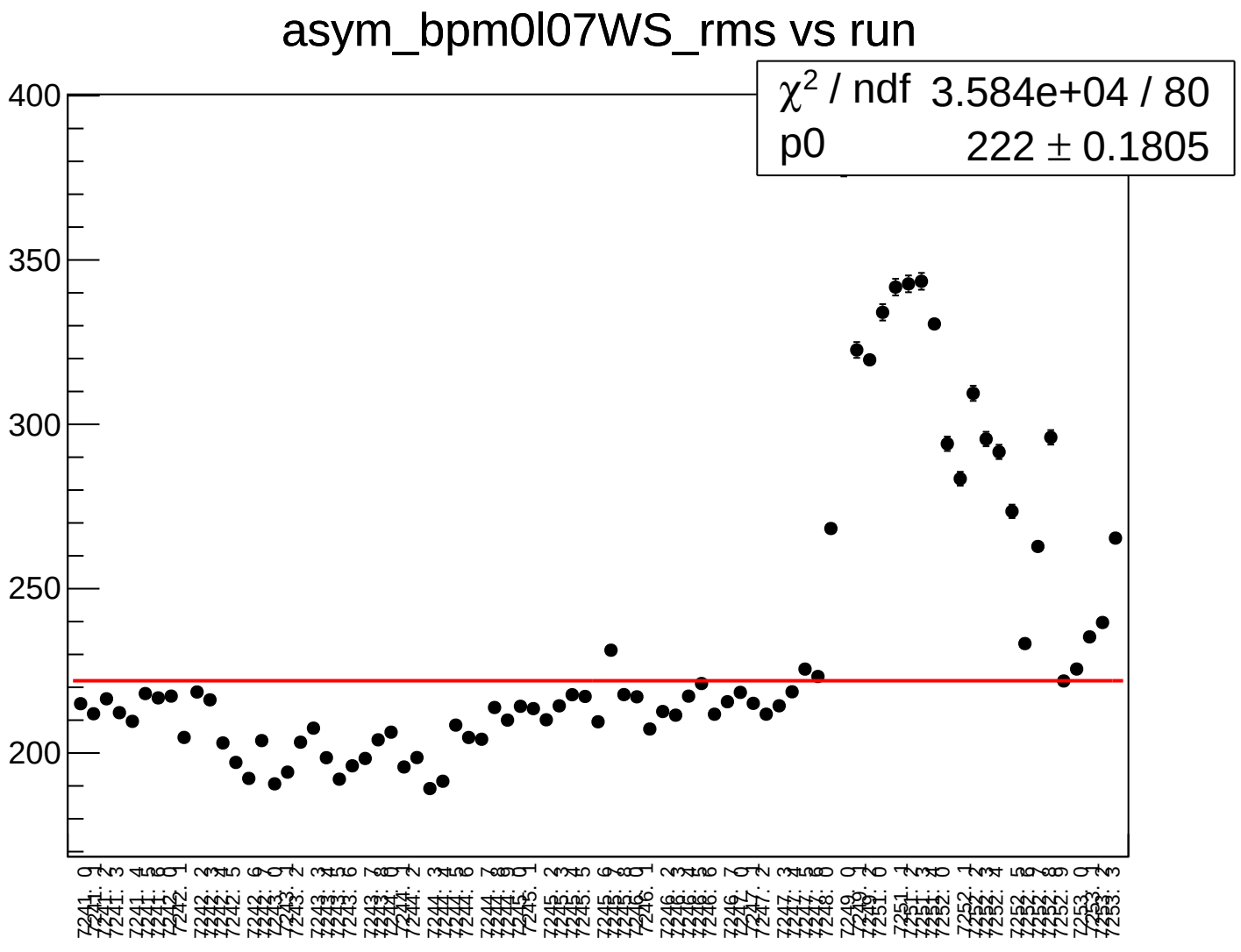

asym_bpm0l05WS_rms vs run
χ^2 / ndf 3.669e+04 / 80
p0 228.8 ± 0.186
400
350
300
250
200

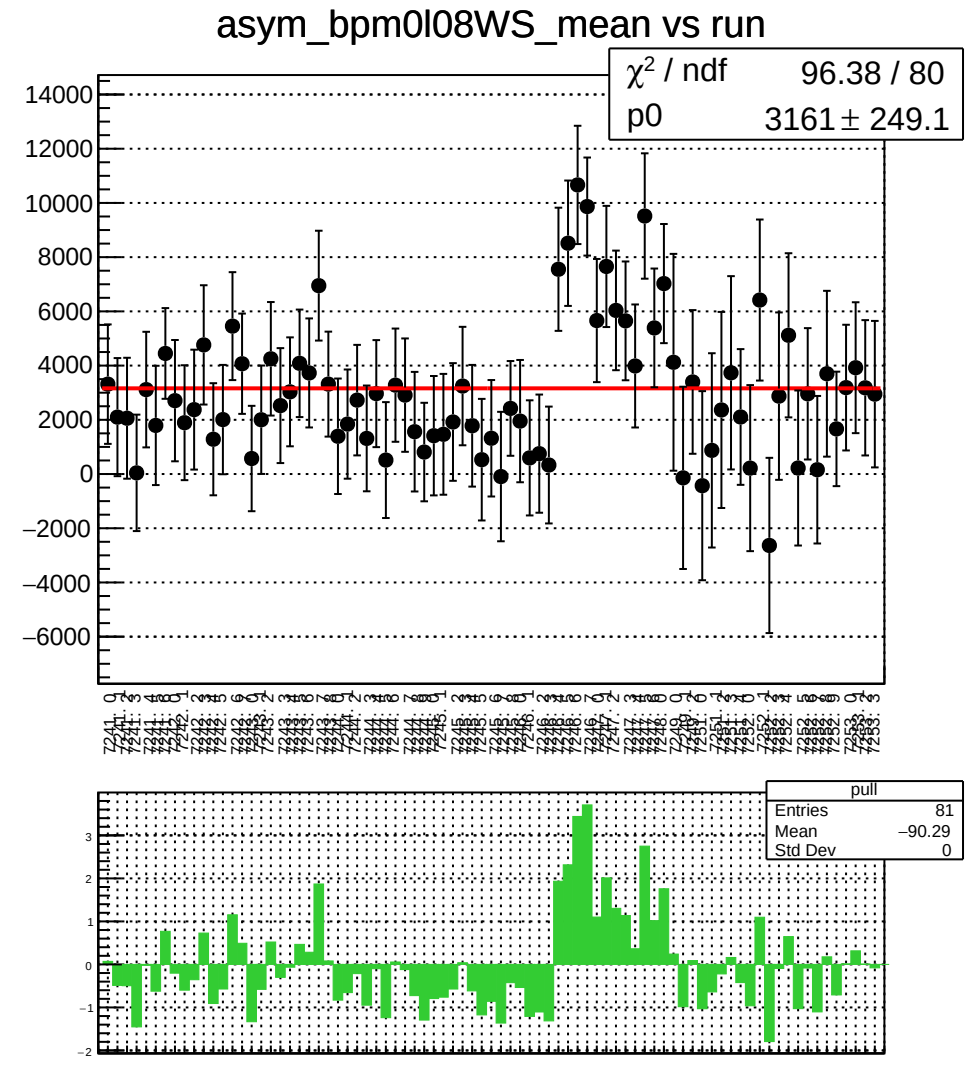

asym_bpm0l06WS_mean vs run
χ² / ndf 90.42 / 80
p0 2990 ± 259.8
pull
Entries 81
Mean −66.06
Std Dev 0
pull1D
Entries 81
Mean −0.01878
Std Dev 1.056

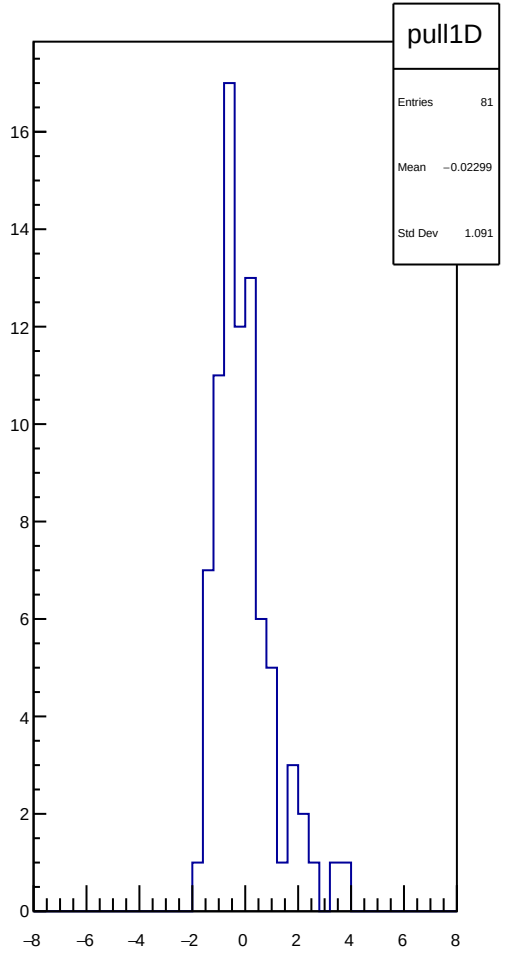

asym_bpm0l06WS_rms vs run
χ² / ndf 3.809e+04 / 80
p0 225.8 ± 0.1837
400
350
300
250
200

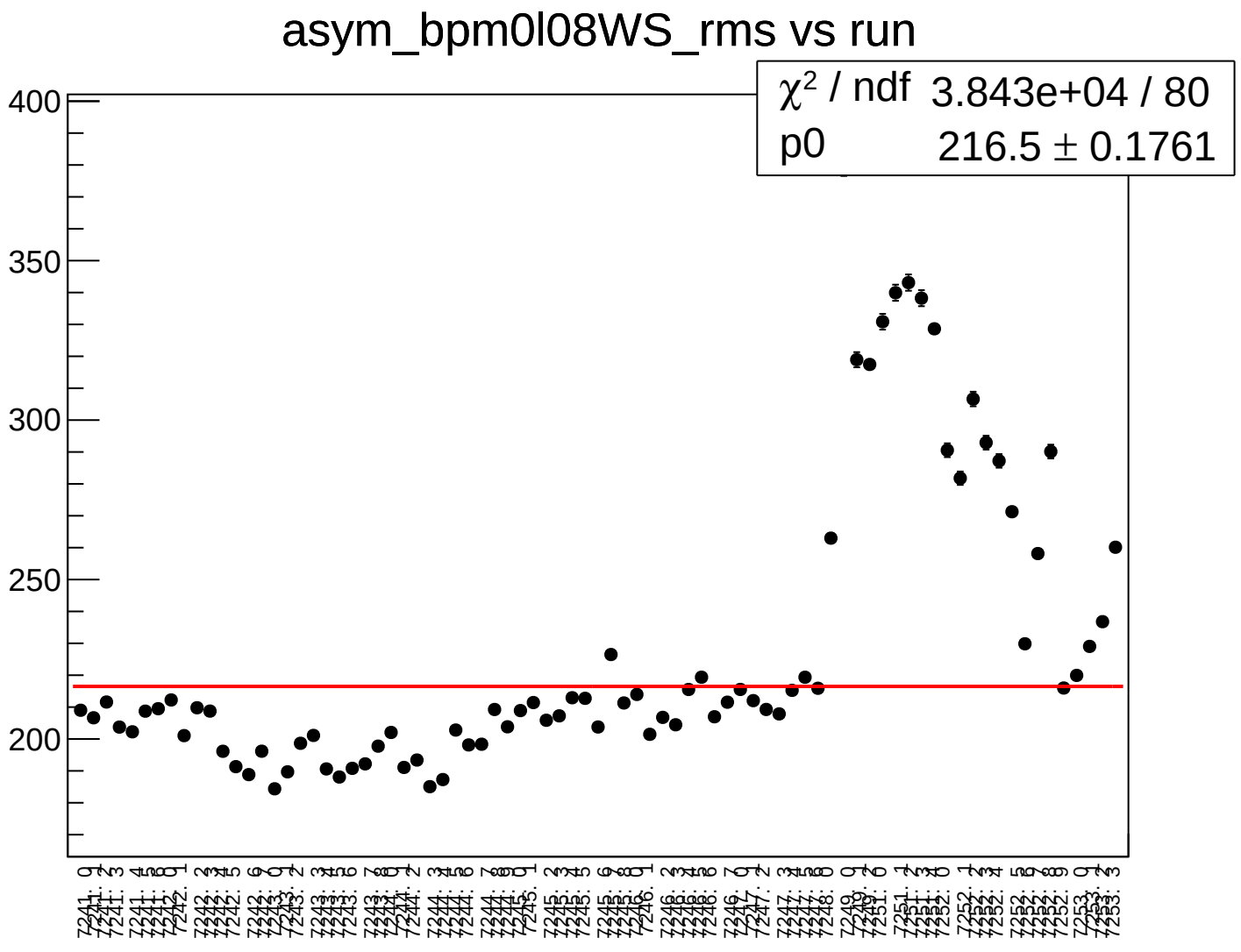

asym_bpm0l07WS_mean vs run
χ² / ndf 96.32 / 80
p0 3127 ± 255.2
15000
10000
5000
0
−5000
pull
Entries 81
Mean 20.2
Std Dev 41.85
3
2
1
0
−1
−2

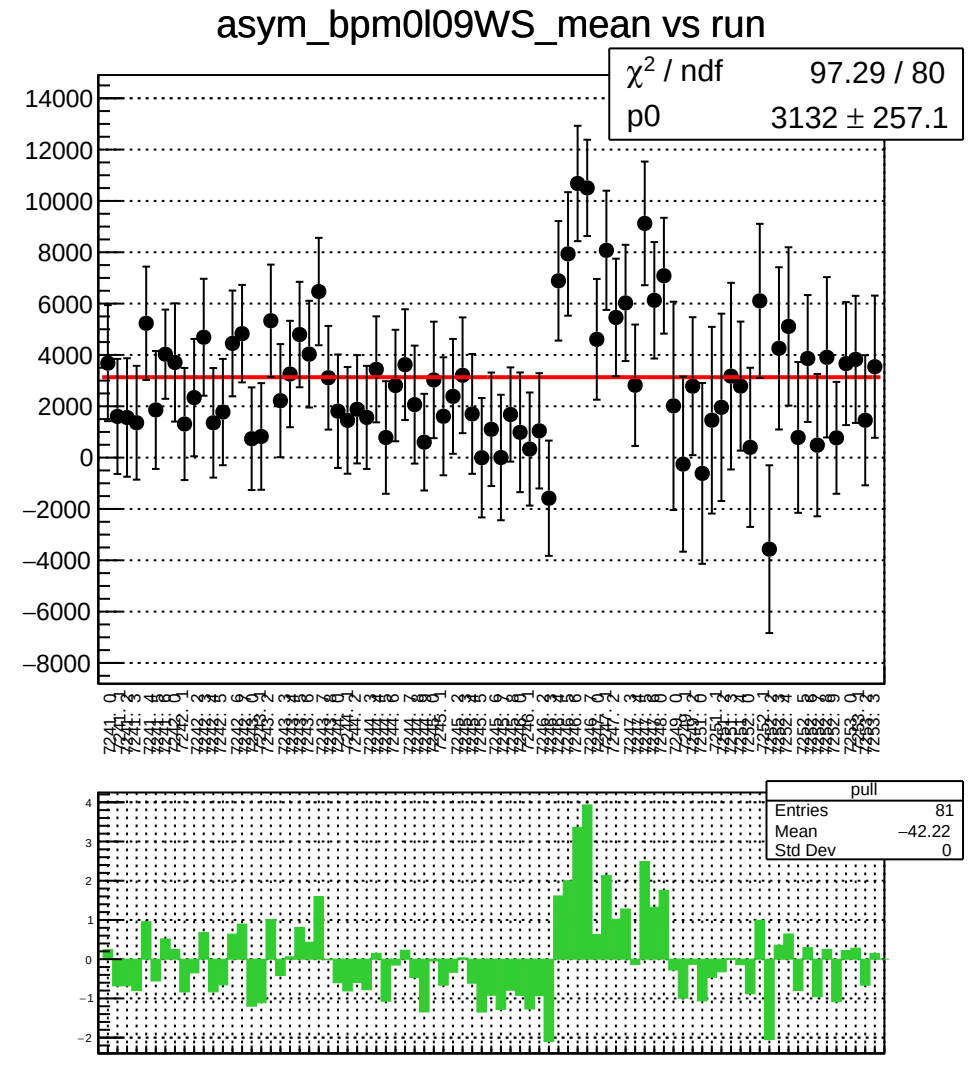

pull1D
Entries 81
Mean −0.02847
Std Dev 1.09
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

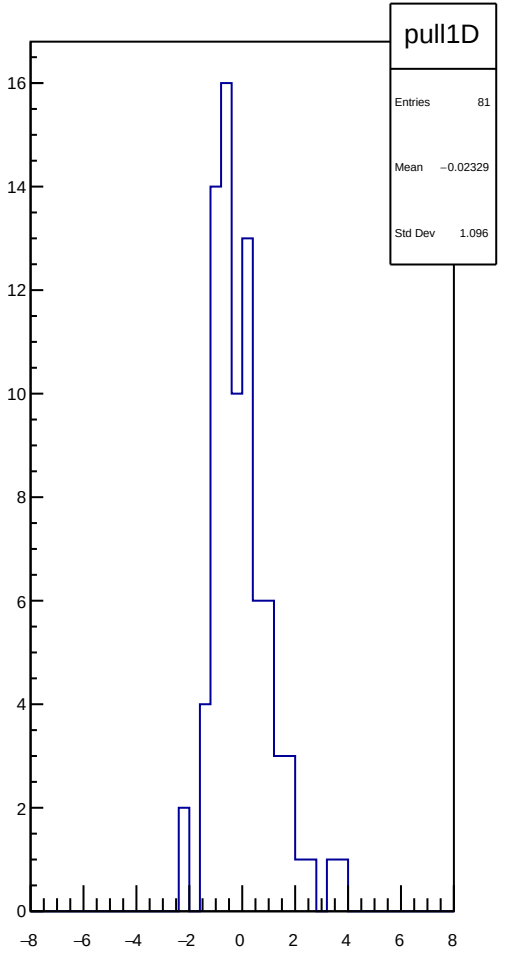

asym_bpm0l07WS_rms vs run
χ^2 / ndf 3.584e+04 / 80
p0 222 ± 0.1805
400
350
300
250
200

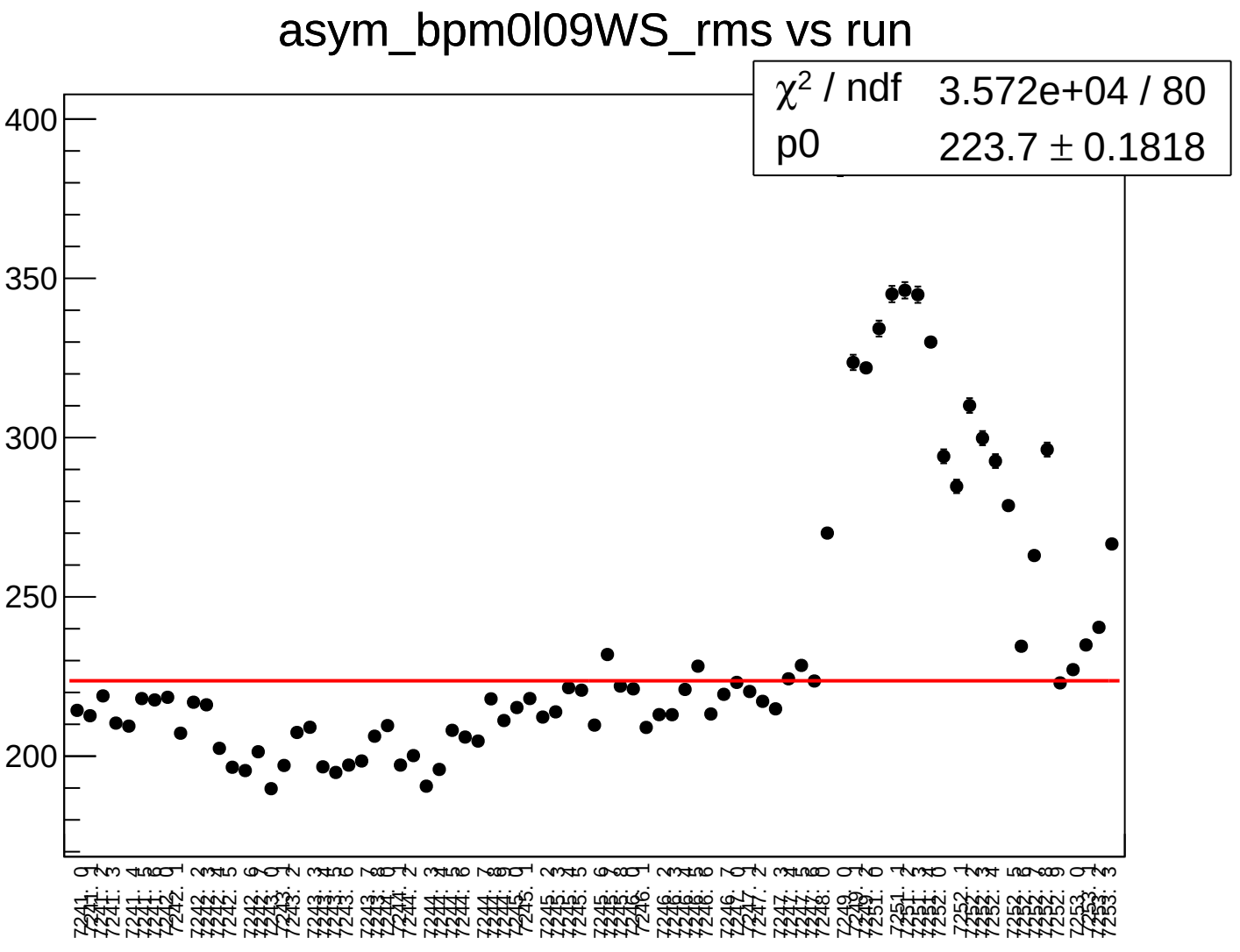

asym_bpm0l08WS_mean vs run
χ² / ndf 96.38 / 80
p0 3161 ± 249.1
pull
Entries 81
Mean −90.29
Std Dev 0

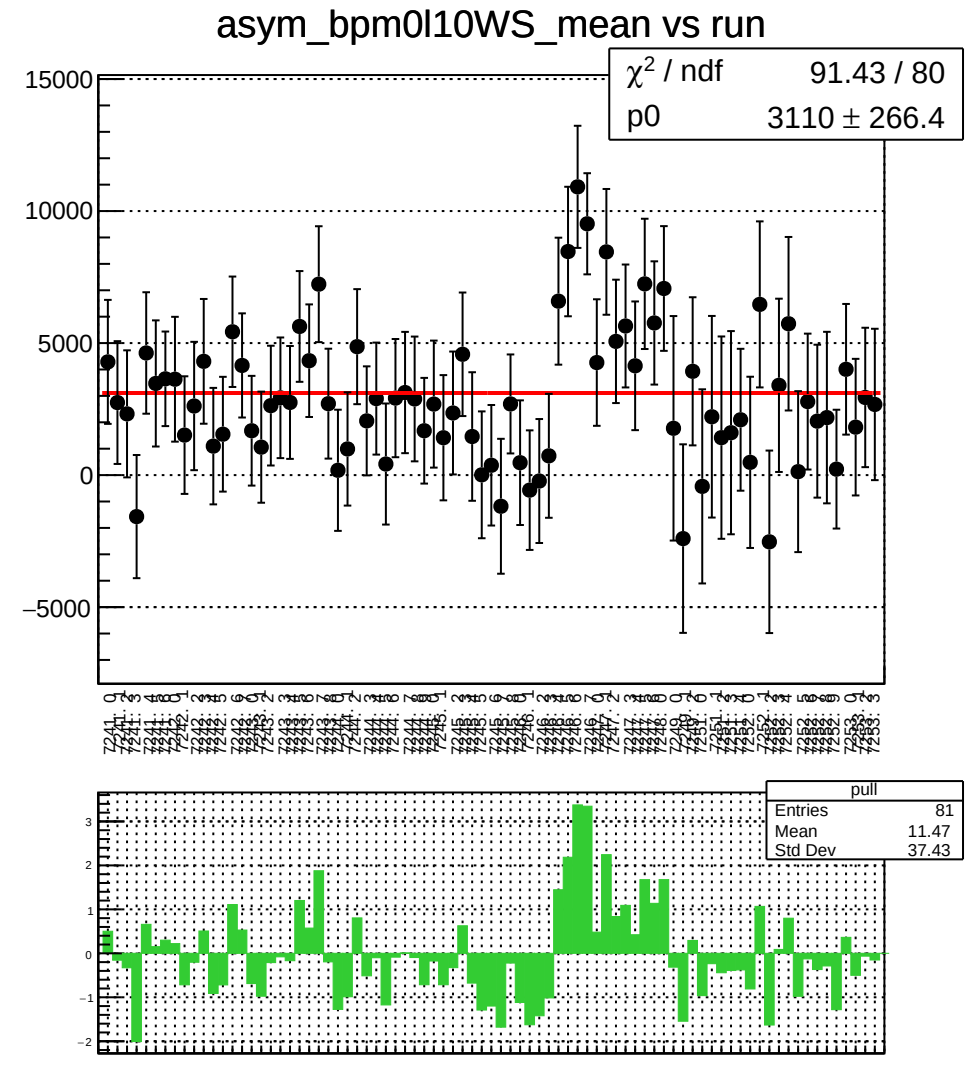

pull1D
Entries 81
Mean −0.02299
Std Dev 1.091

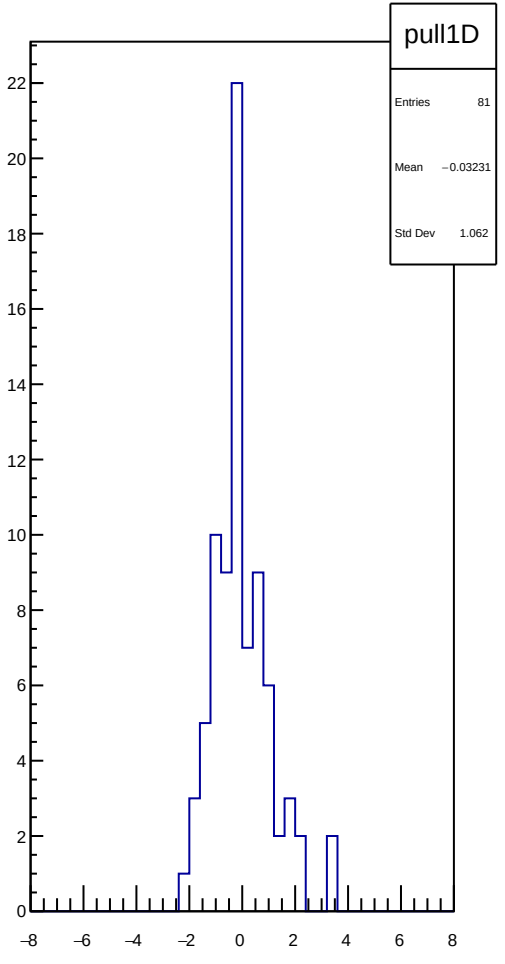

asym_bpm0l08WS_rms vs run
χ² / ndf 3.843e+04 / 80
p0 216.5 ± 0.1761
400
350
300
250
200

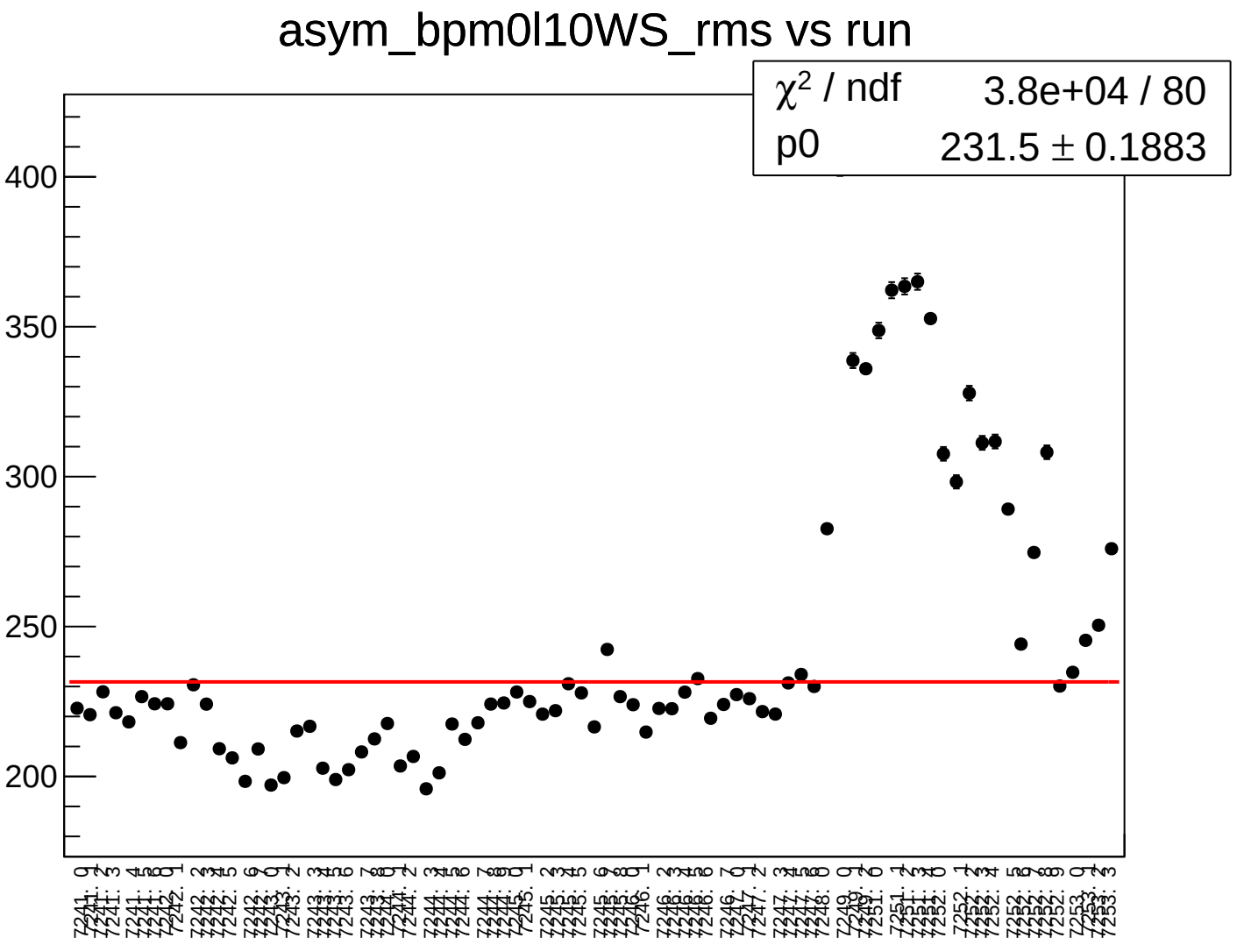

asym_bpm0l09WS_mean vs run
χ² / ndf 97.29 / 80
p0 3132 ± 257.1
pull
Entries 81
Mean −42.22
Std Dev 0

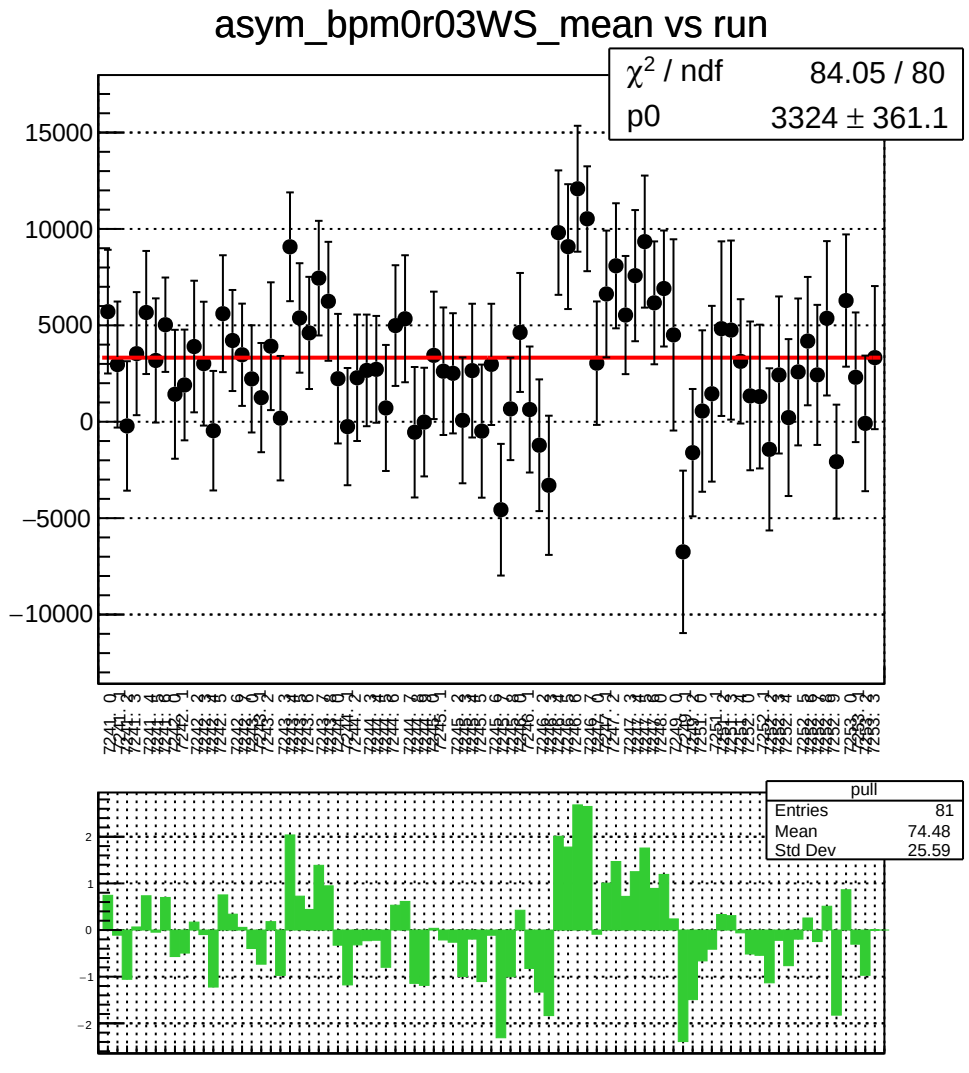

pull1D
Entries 81
Mean −0.02329
Std Dev 1.096

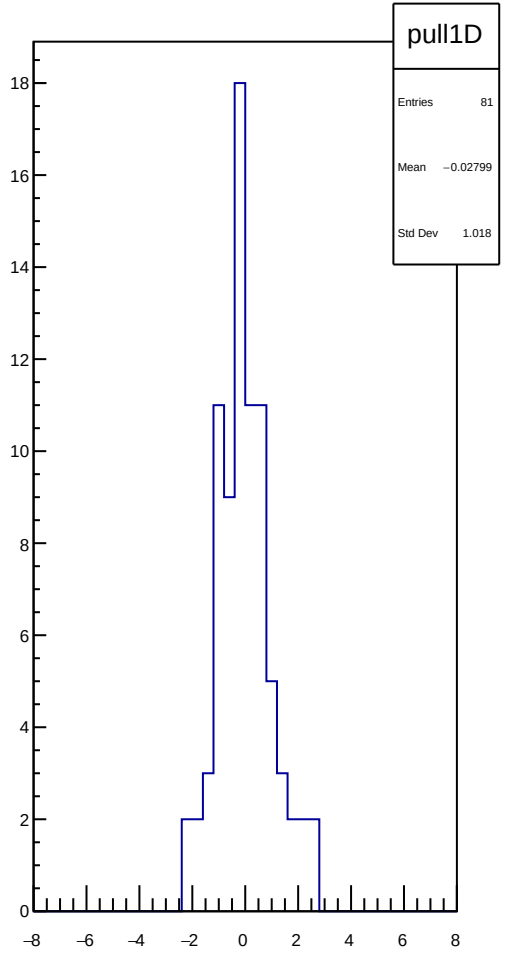

asym_bpm0l09WS_rms vs run
χ² / ndf 3.572e+04 / 80
p0 223.7 ± 0.1818
400
350
300
250
200

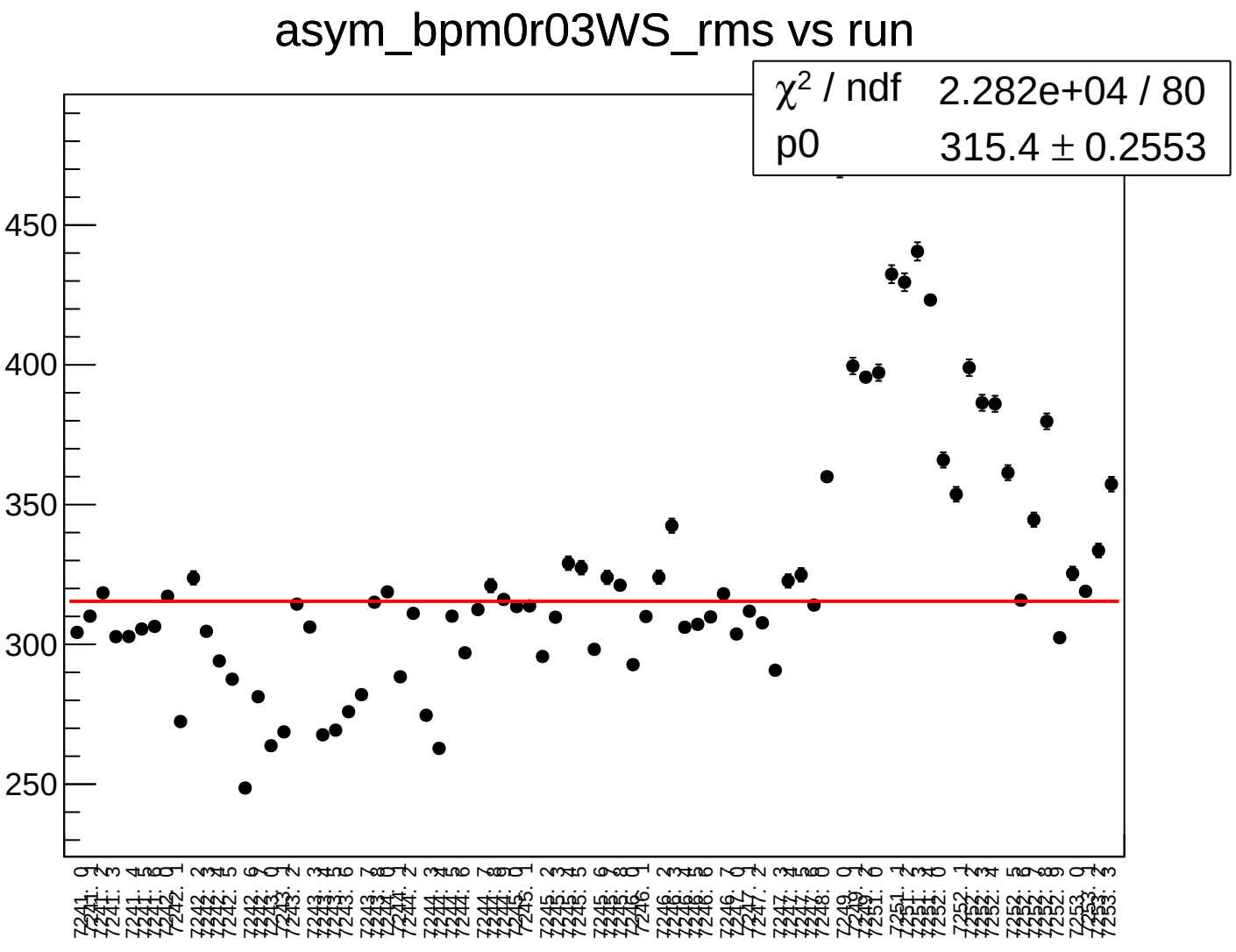

asym_bpm0l10WS_mean vs run
χ² / ndf 91.43 / 80
p0 3110 ± 266.4
15000
10000
5000
0
−5000
pull
Entries 81
Mean 11.47
Std Dev 37.43
3
2
1
0
−1
−2

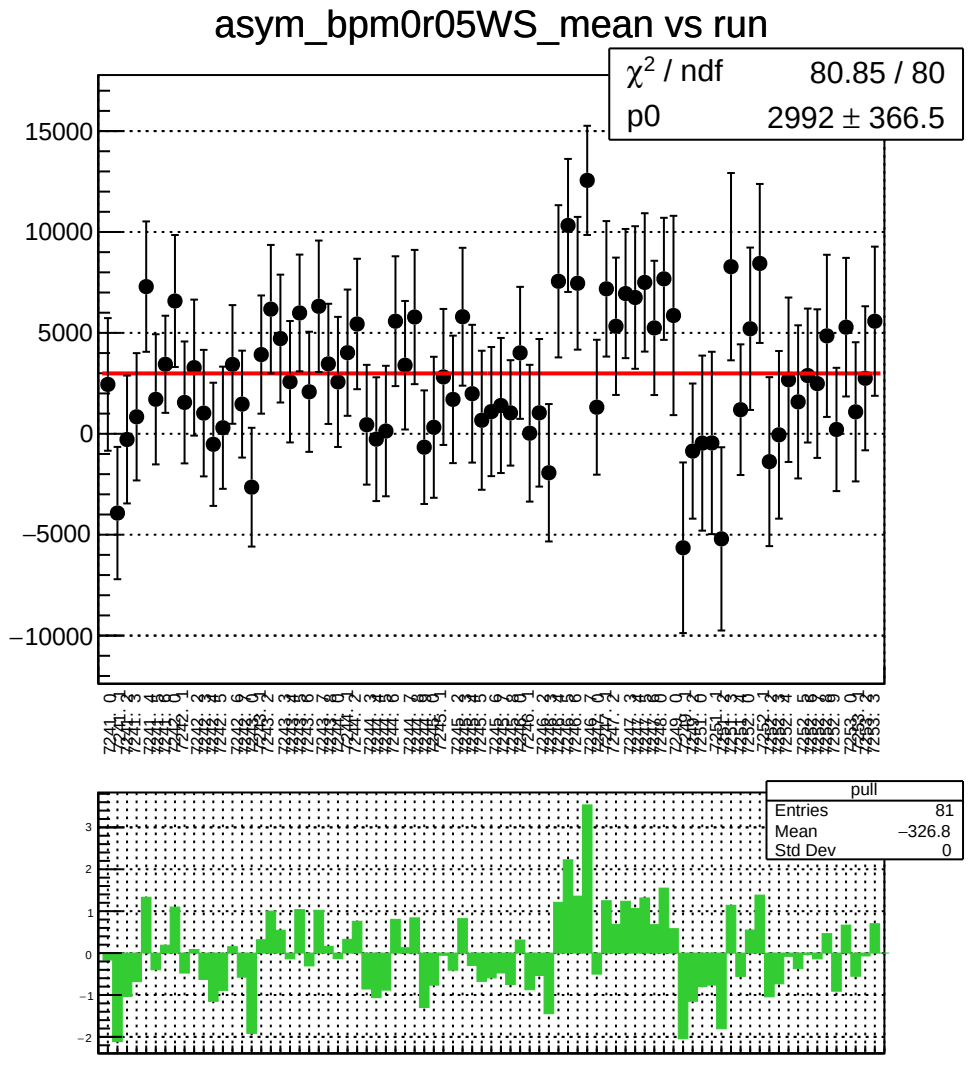

pull1D
Entries 81
Mean −0.03231
Std Dev 1.062
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

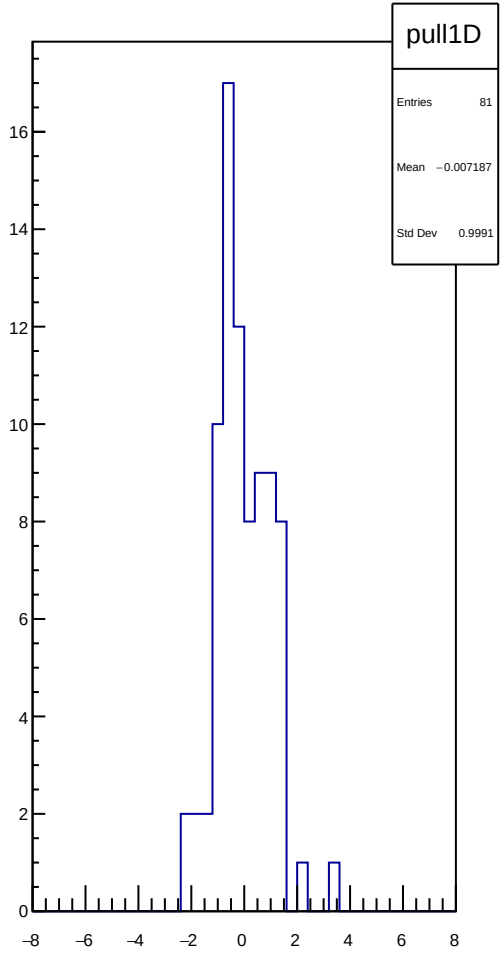

asym_bpm0l10WS_rms vs run
χ² / ndf 3.8e+04 / 80
p0 231.5 ± 0.1883
400
350
300
250
200

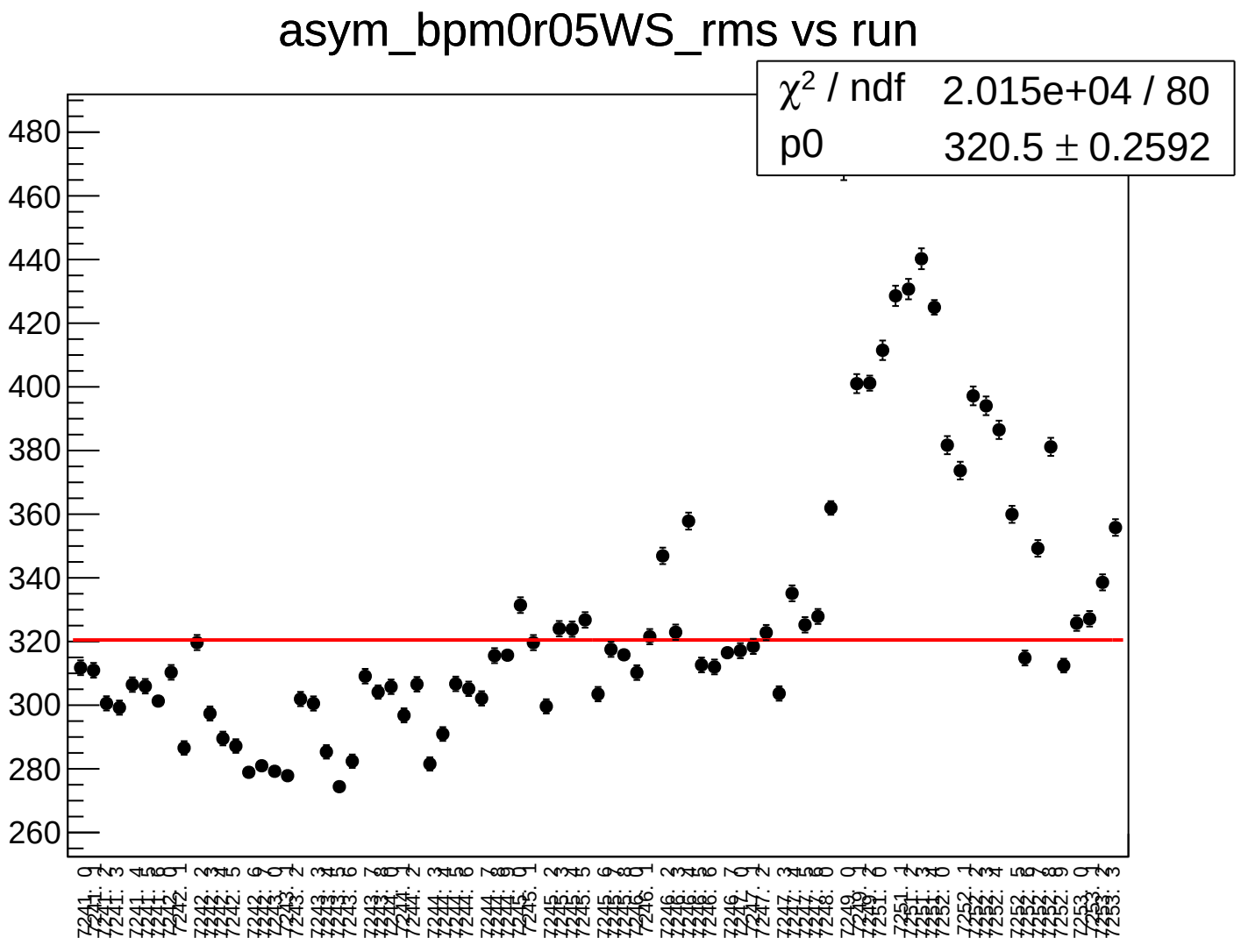

asym_bpm0r03WS_mean vs run
χ² / ndf 84.05 / 80
p0 3324 ± 361.1
15000
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 74.48
Std Dev 25.59
2
1
0
−1
−2

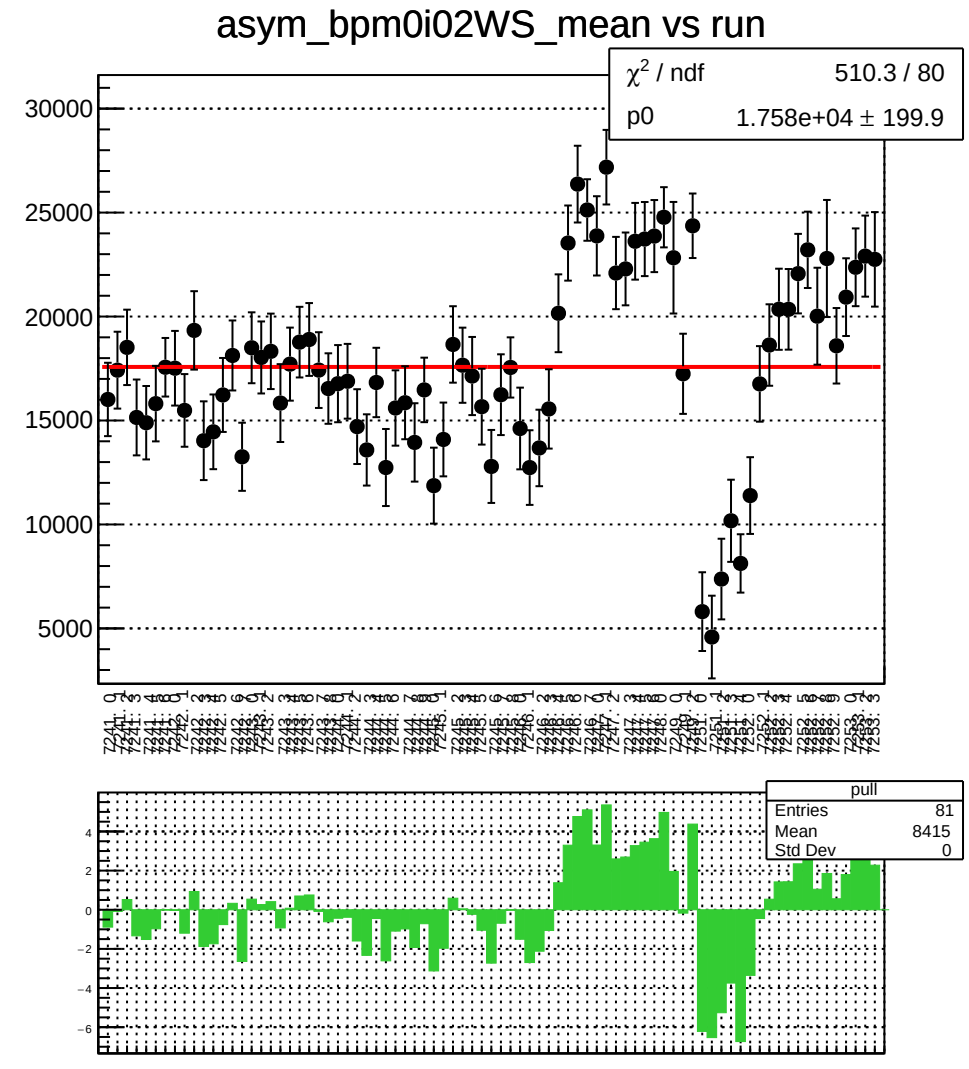

pull1D
Entries 81
Mean −0.02799
Std Dev 1.018
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

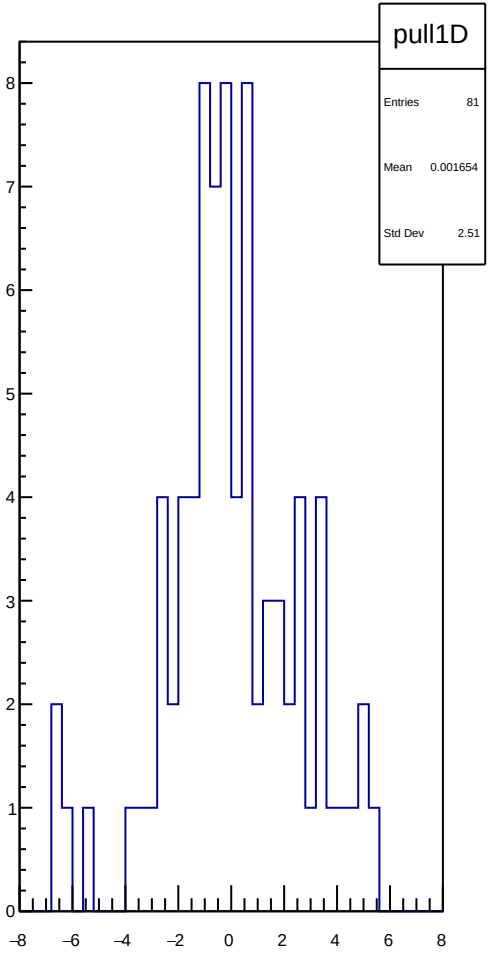

asym_bpm0r03WS_rms vs run
χ² / ndf 2.282e+04 / 80
p0 315.4 ± 0.2553
450
400
350
300
250

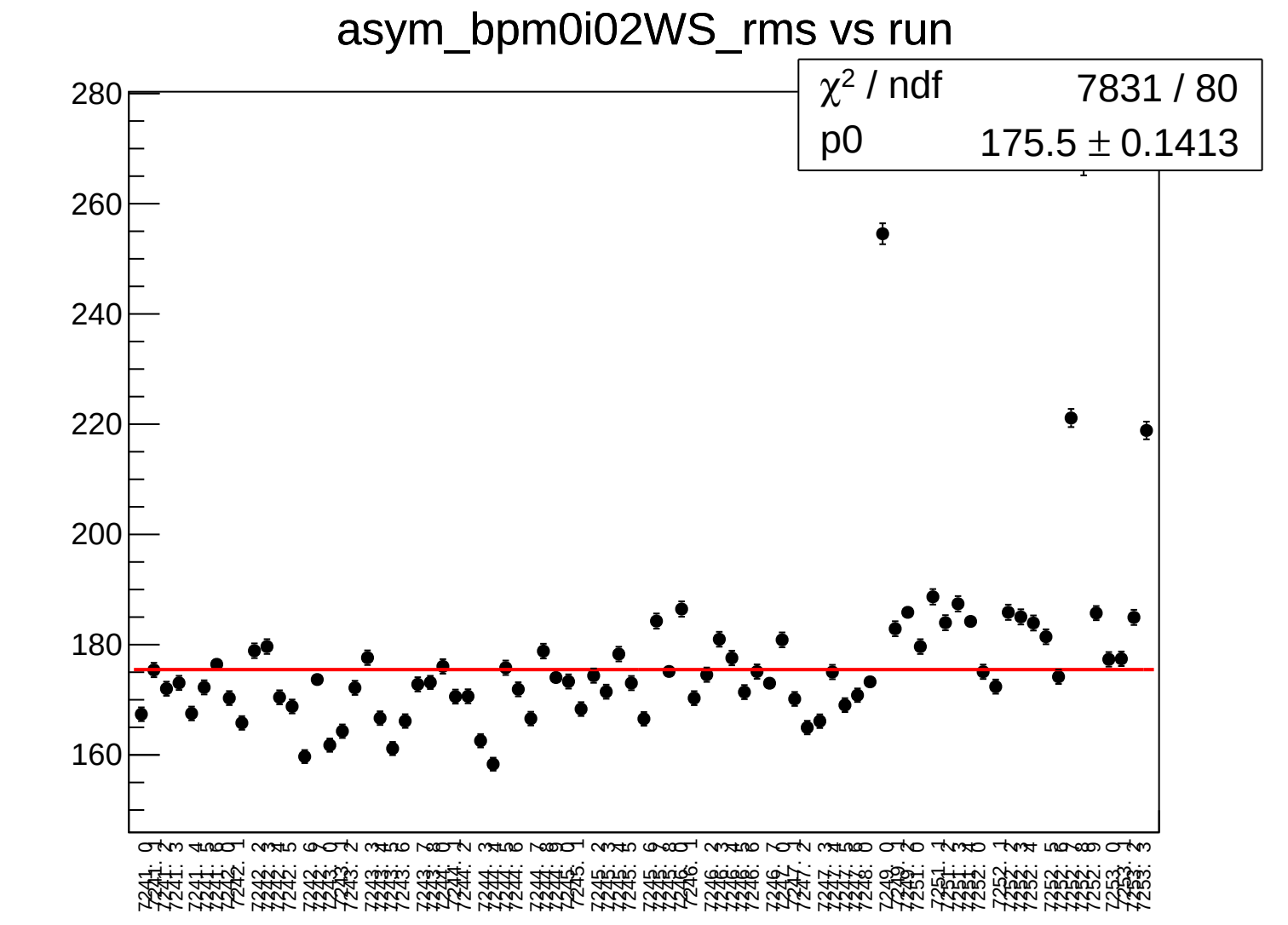

asym_bpm0r05WS_mean vs run
χ² / ndf 80.85 / 80
p0 2992 ± 366.5
15000
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −326.8
Std Dev 0
3
2
1
0
−1
−2

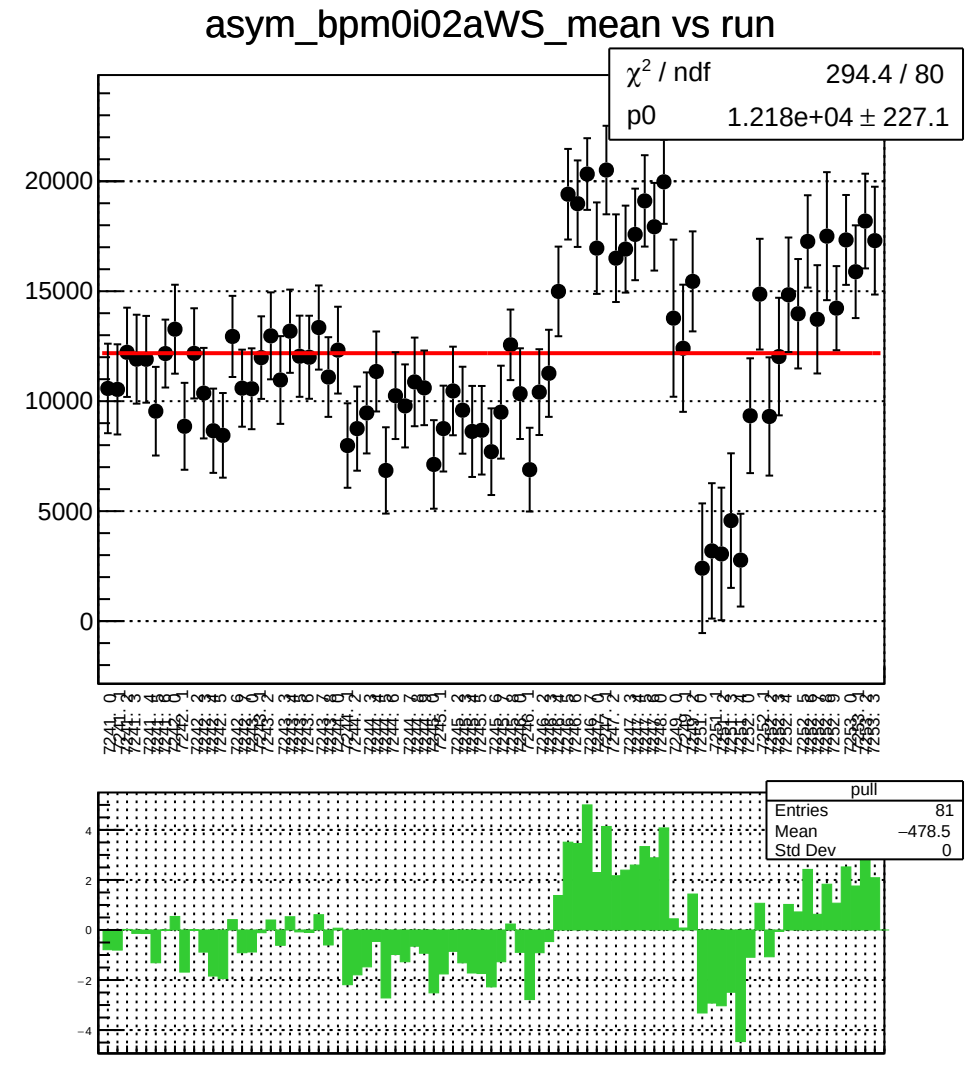

pull1D
Entries 81
Mean −0.007187
Std Dev 0.9991
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

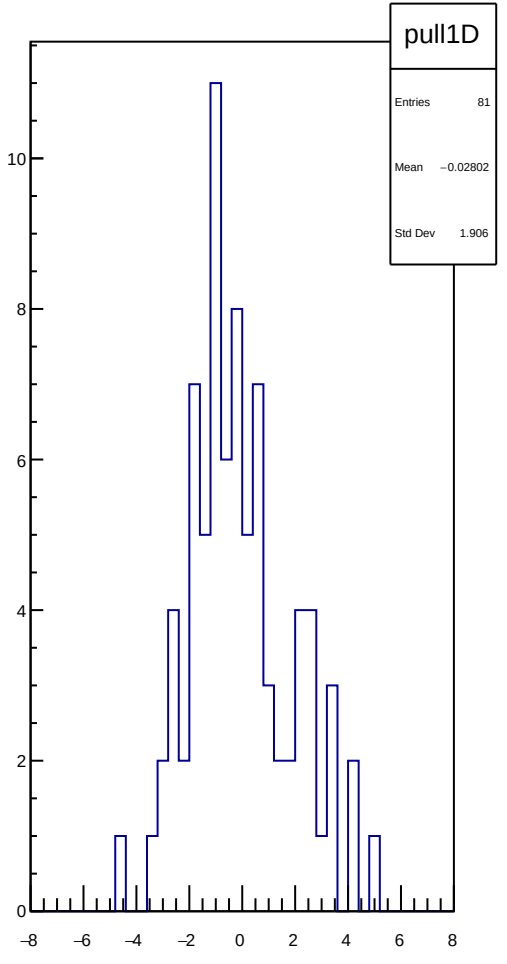

asym_bpm0r05WS_rms vs run
χ² / ndf 2.015e+04 / 80
p0 320.5 ± 0.2592
480
460
440
420
400
380
360
340
320
300
280
260

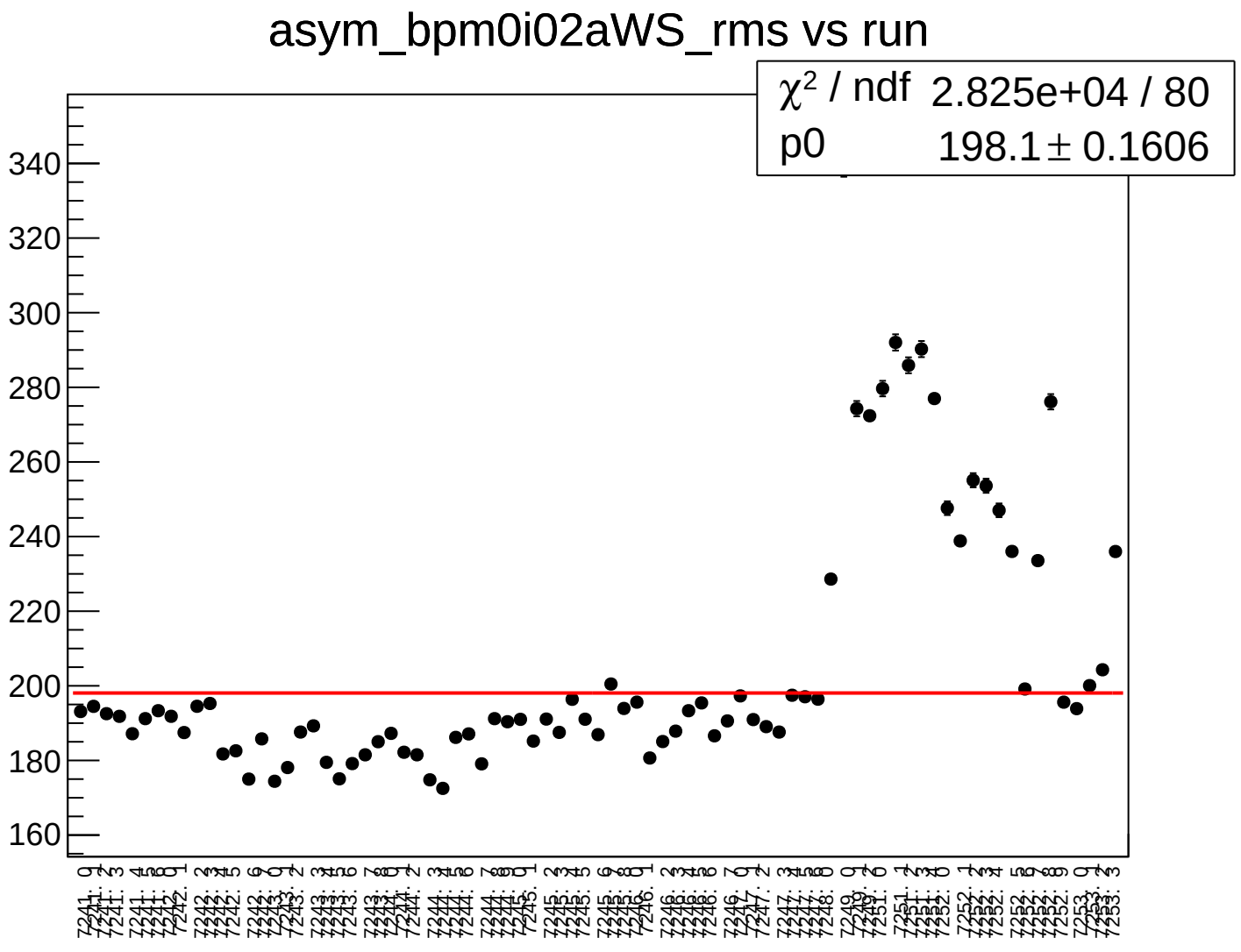

asym_bpm0i02WS_mean vs run
χ² / ndf 510.3 / 80
p0 1.758e+04 ± 199.9
30000
25000
20000
15000
10000
5000
pull
Entries 81
Mean 8415
Std Dev 0
4
2
0
−2
−4
−6

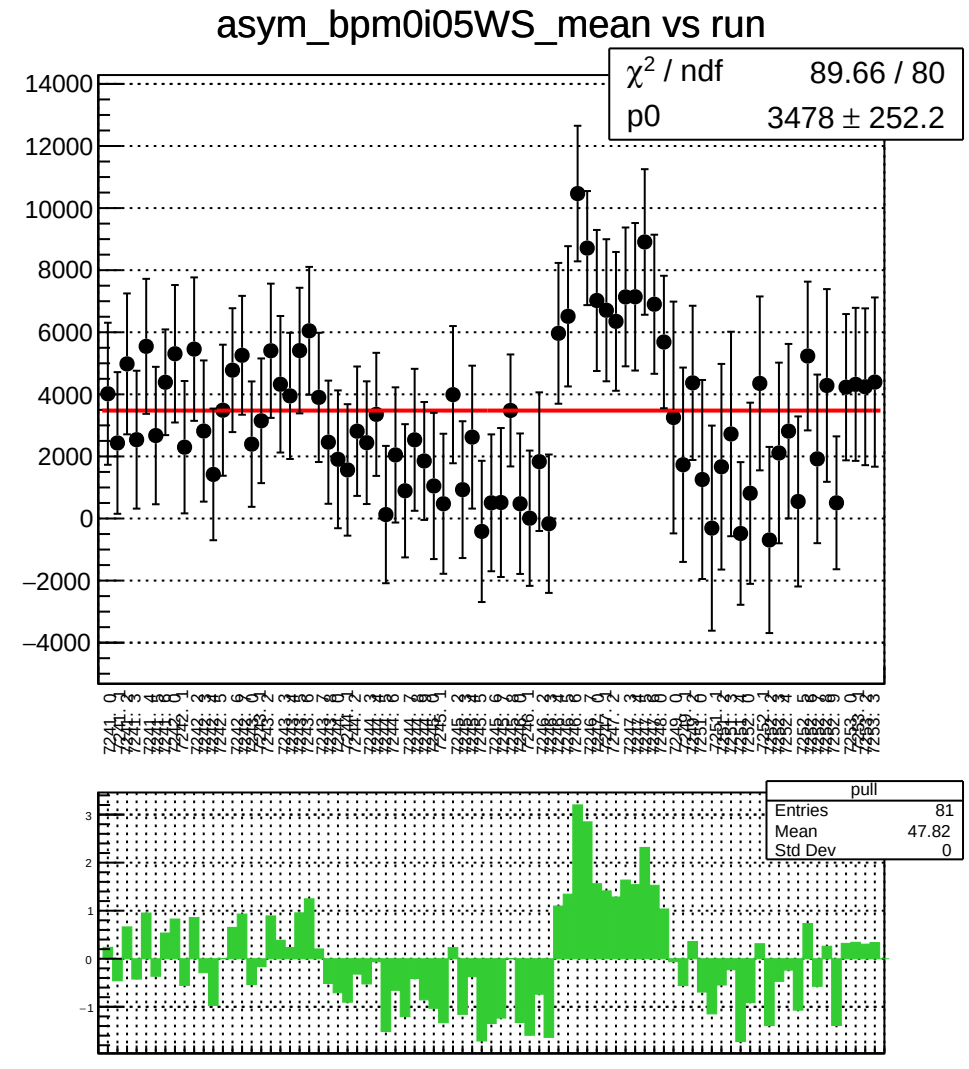

pull1D
Entries 81
Mean 0.001654
Std Dev 2.51
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

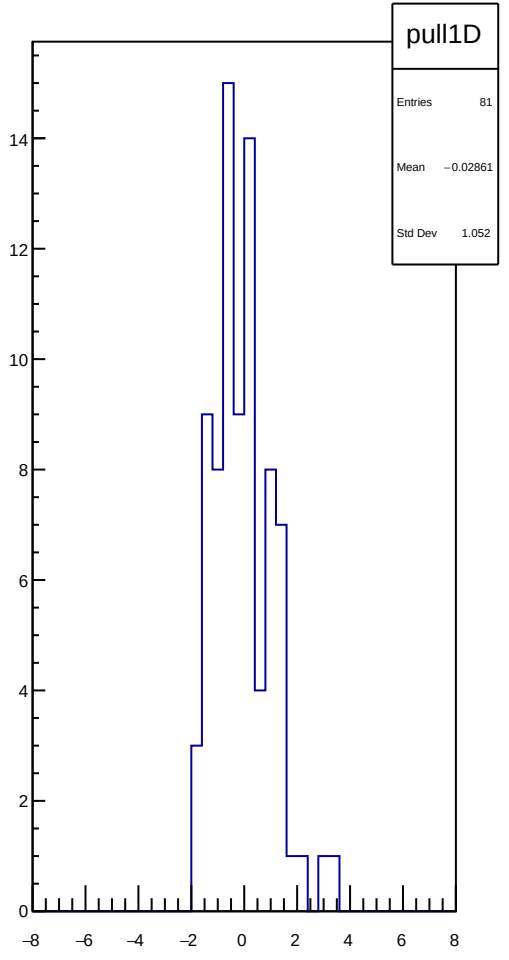

asym_bpm0i02WS_rms vs run
χ^2 / ndf 7831 / 80
p0 175.5 ± 0.1413
280
260
240
220
200
180
160

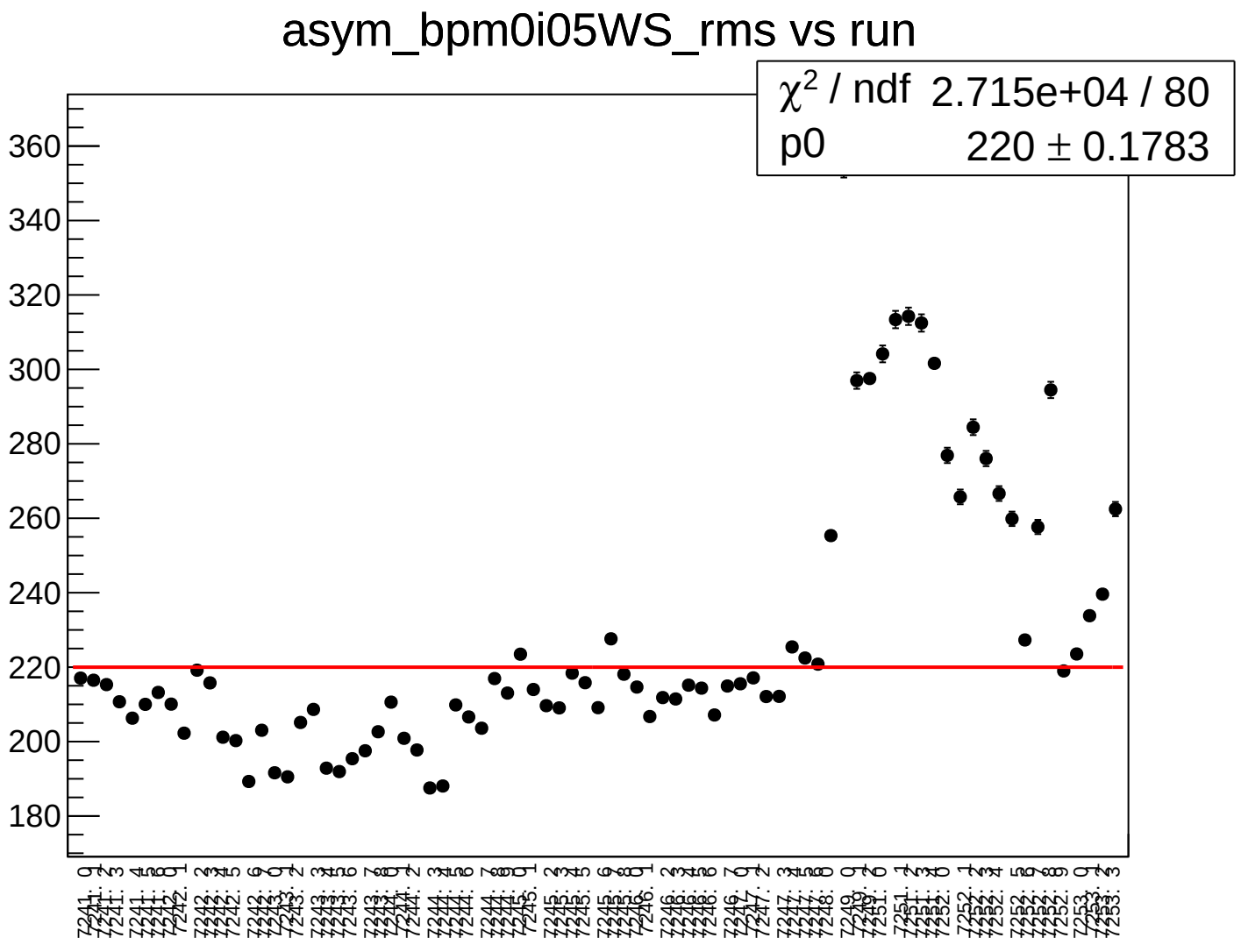

asym_bpm0i02aWS_mean vs run
χ² / ndf 294.4 / 80
p0 1.218e+04 ± 227.1
20000
15000
10000
5000
0
pull
Entries 81
Mean −478.5
Std Dev 0
4
2
0
−2
−4

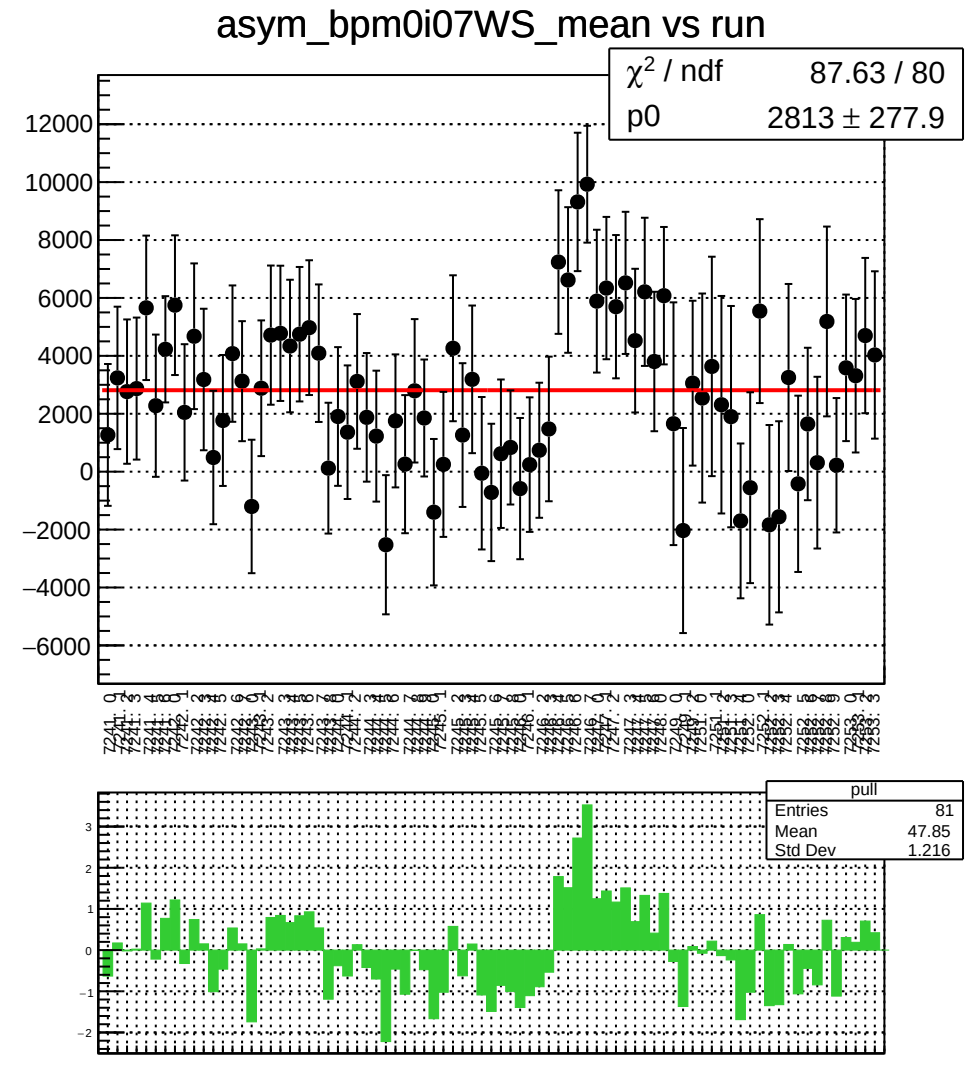

pull1D
Entries 81
Mean −0.02802
Std Dev 1.906
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

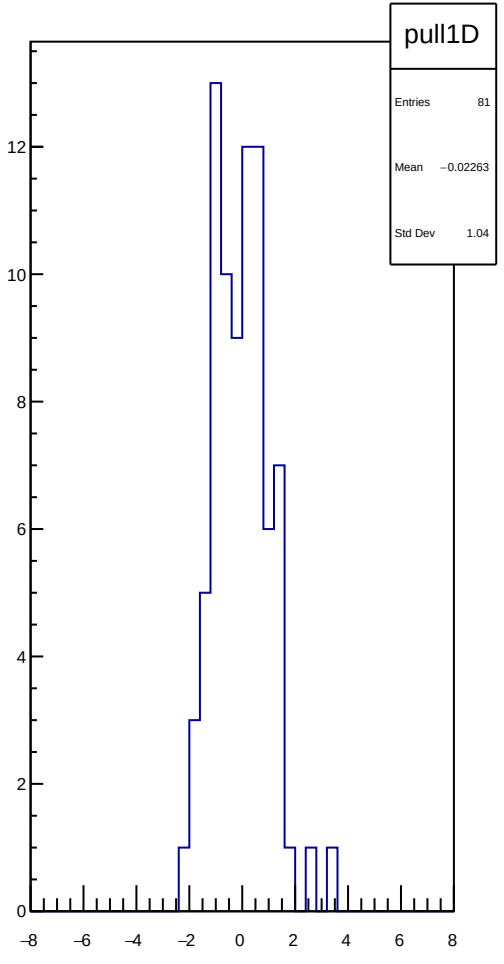

asym_bpm0i02aWS_rms vs run
χ² / ndf 2.825e+04 / 80
p0 198.1 ± 0.1606
340
320
300
280
260
240
220
200
180
160

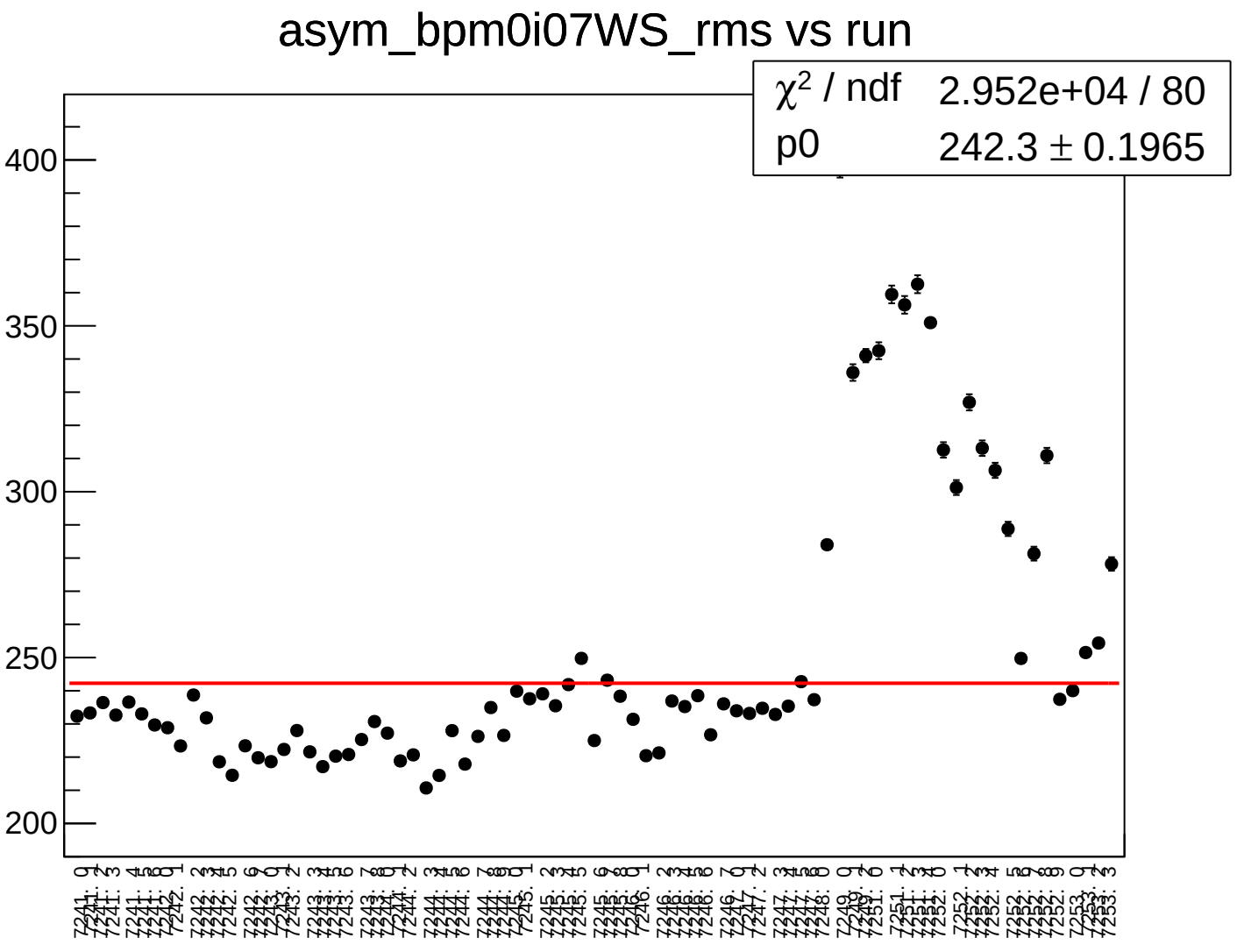

asym_bpm0i05WS_mean vs run
χ² / ndf 89.66 / 80
p0 3478 ± 252.2
pull
Entries 81
Mean 47.82
Std Dev 0

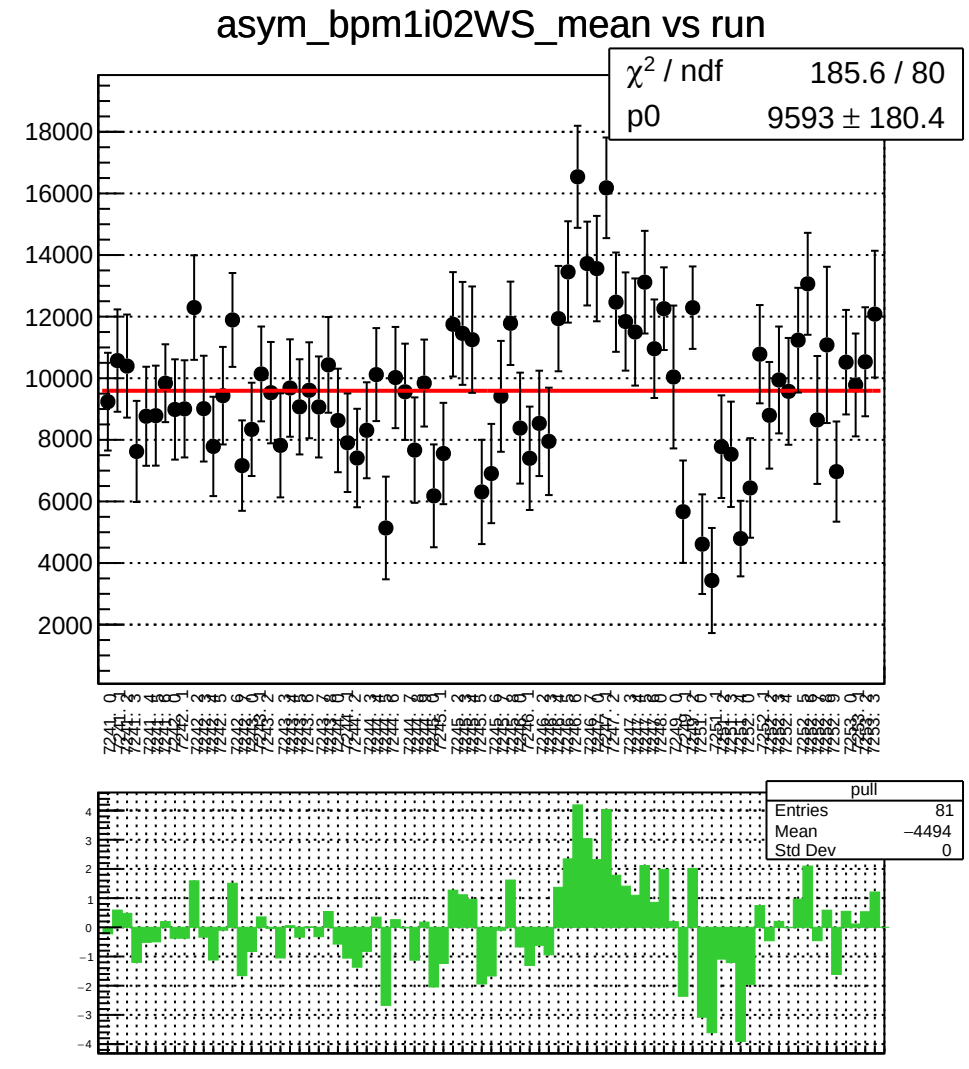

pull1D
Entries 81
Mean −0.02861
Std Dev 1.052

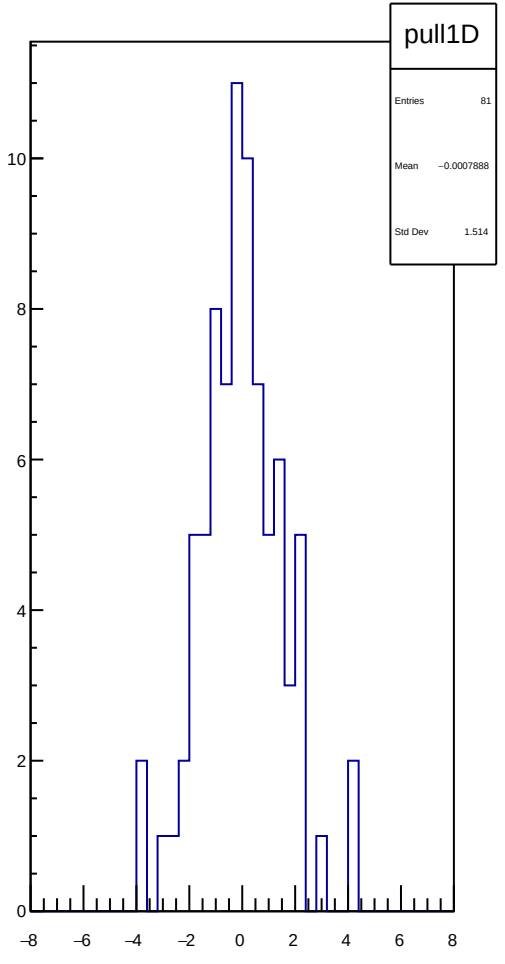

asym_bpm0i05WS_rms vs run
χ^2 / ndf 2.715e+04 / 80
p0 220 ± 0.1783
360
340
320
300
280
260
240
220
200
180

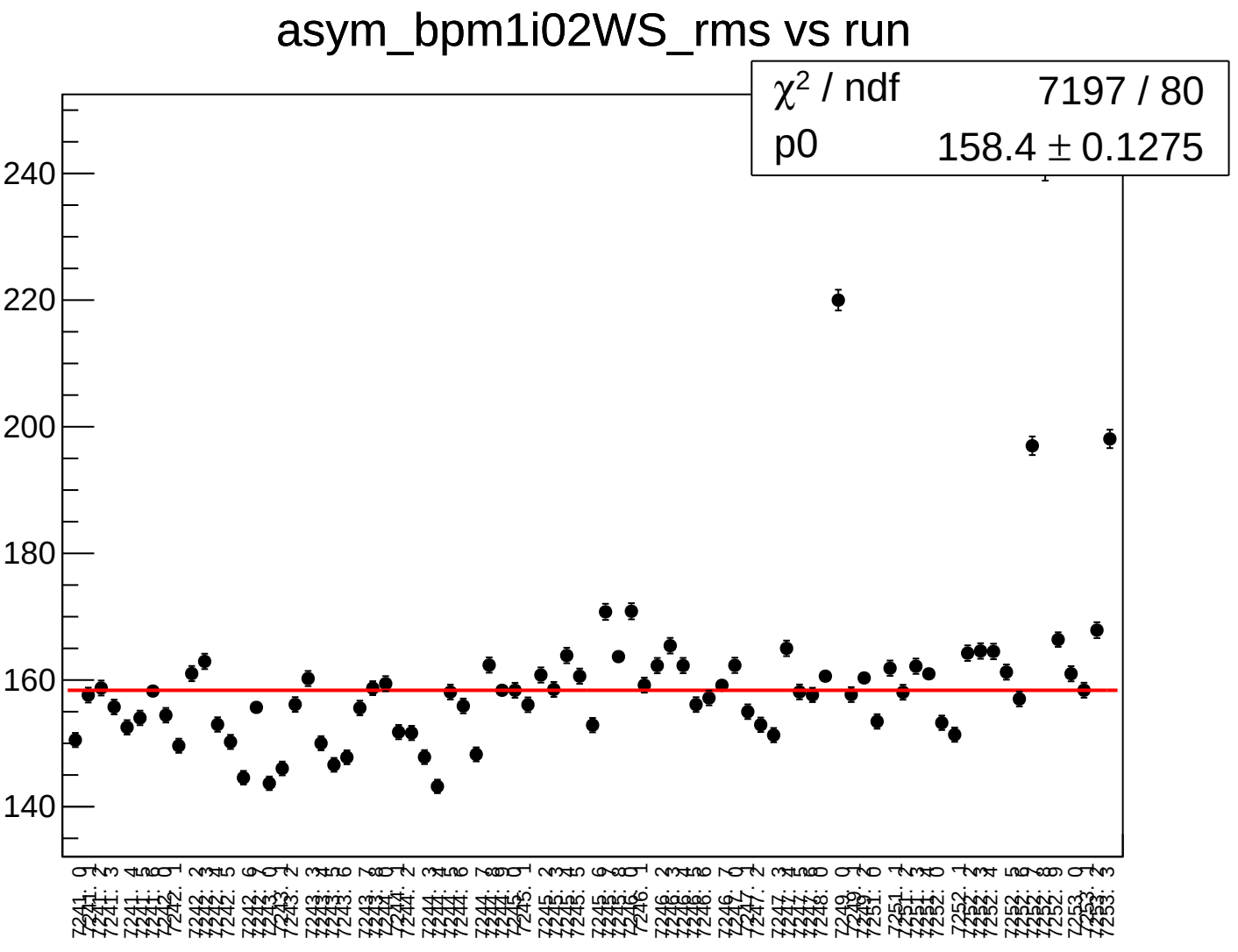

asym_bpm0i07WS_mean vs run
χ² / ndf 87.63 / 80
p0 2813 ± 277.9
pull
Entries 81
Mean 47.85
Std Dev 1.216

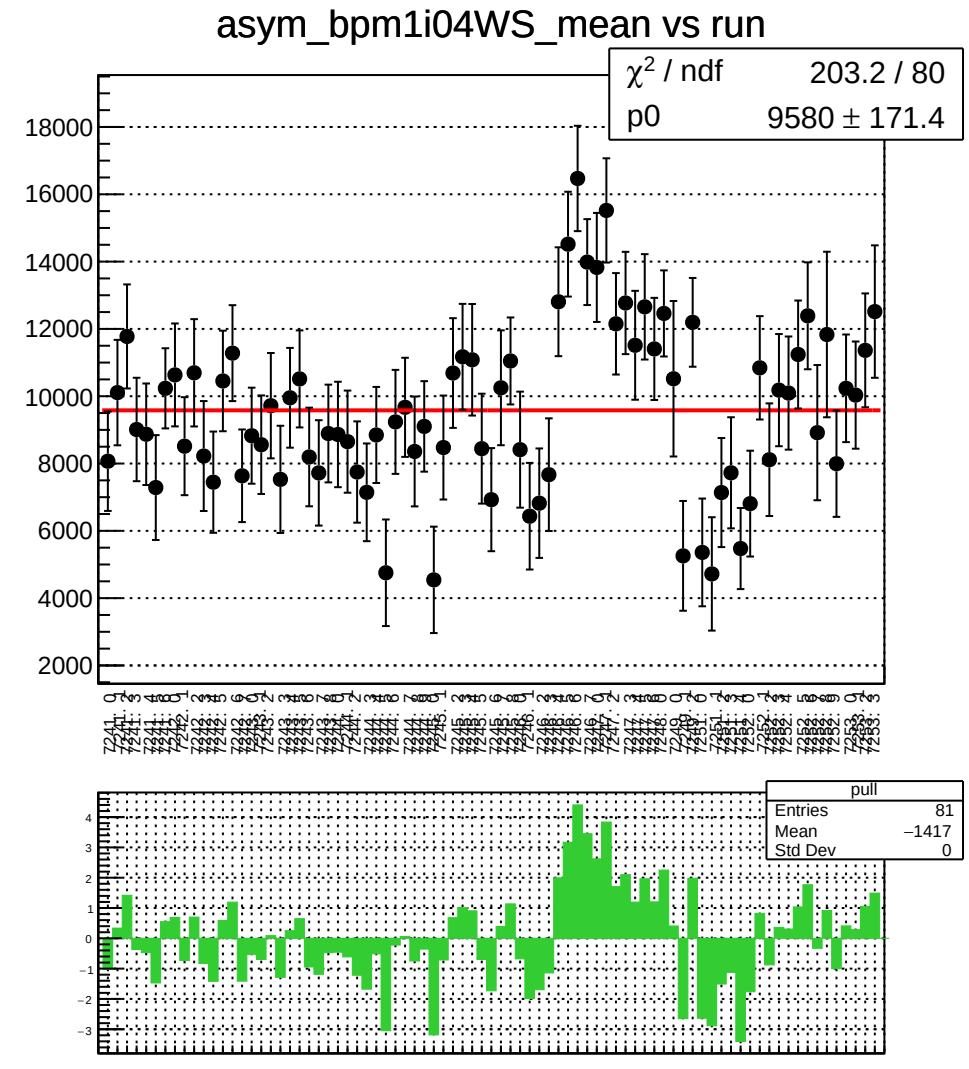

pull1D
Entries 81
Mean −0.02263
Std Dev 1.04

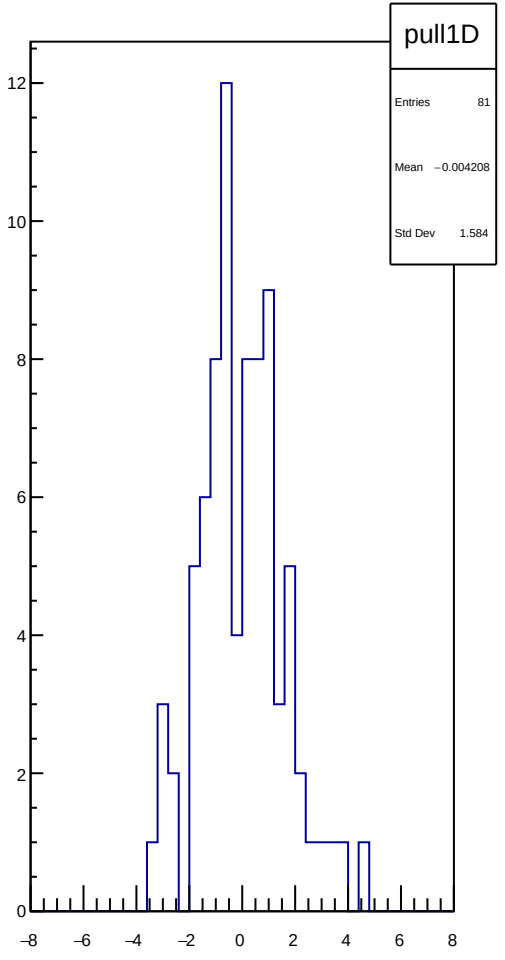

asym_bpm0i07WS_rms vs run
χ² / ndf 2.952e+04 / 80
p0 242.3 ± 0.1965
400
350
300
250
200

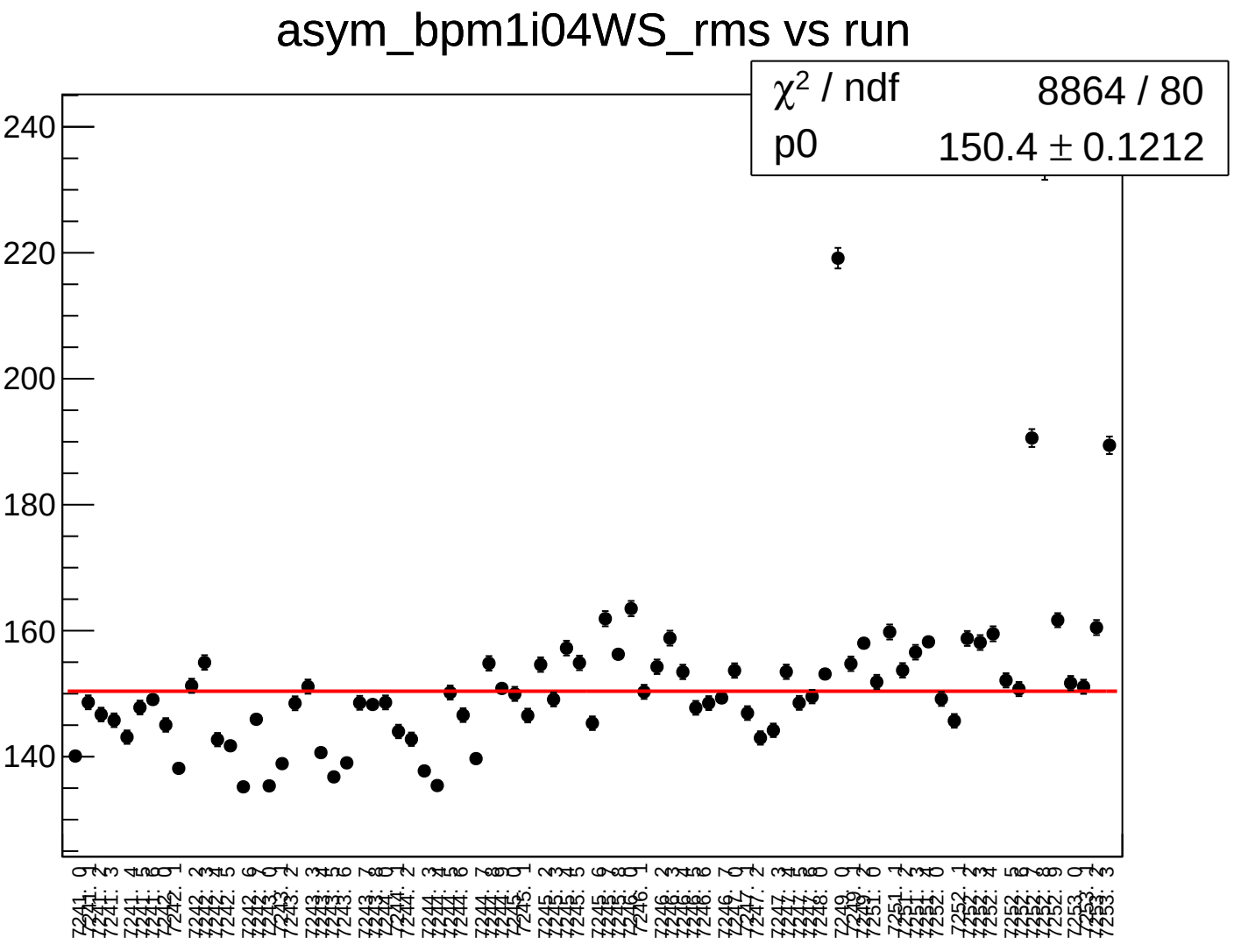

asym_bpm1i02WS_mean vs run
χ^2 / ndf 185.6 / 80
p0 9593 ± 180.4
pull
Entries 81
Mean −4494
Std Dev 0

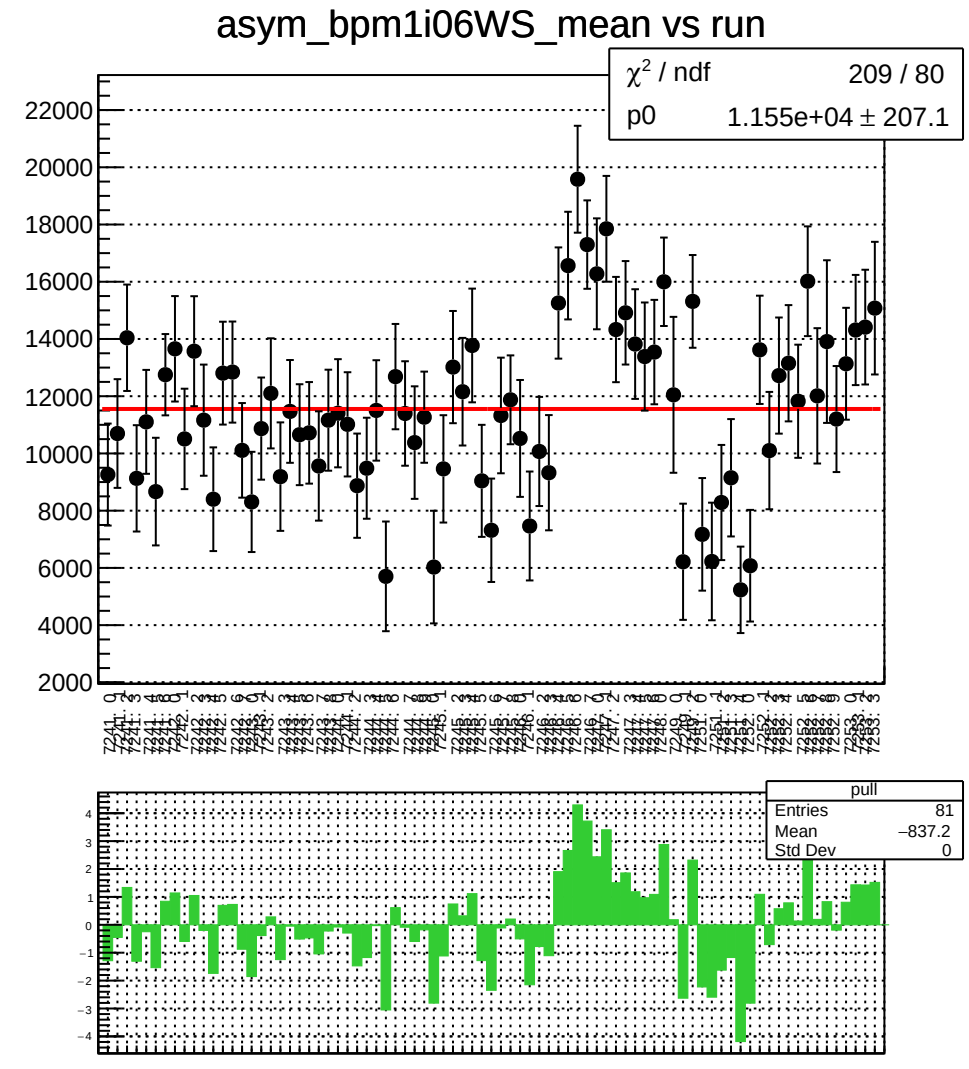

pull1D
Entries 81
Mean −0.0007888
Std Dev 1.514

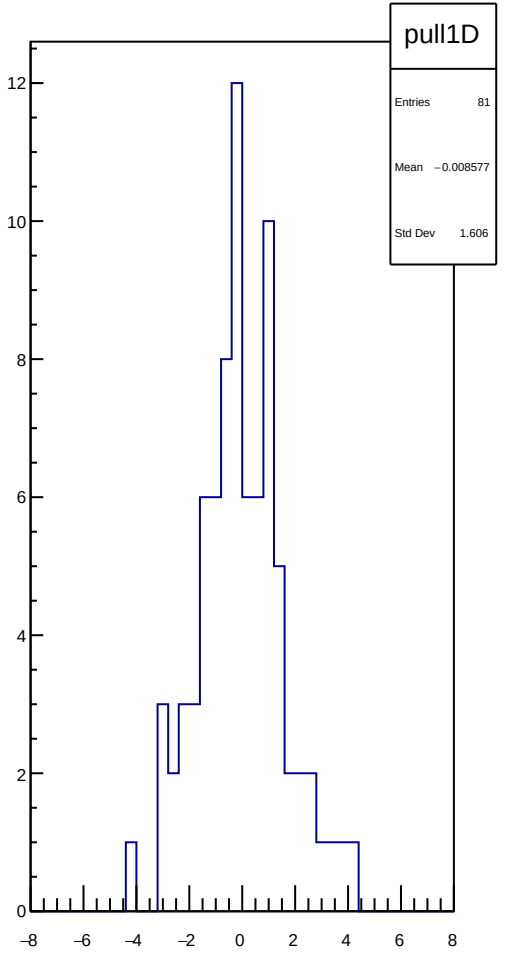

asym_bpm1i02WS_rms vs run
χ² / ndf 7197 / 80
p0 158.4 ± 0.1275
240
220
200
180
160
140

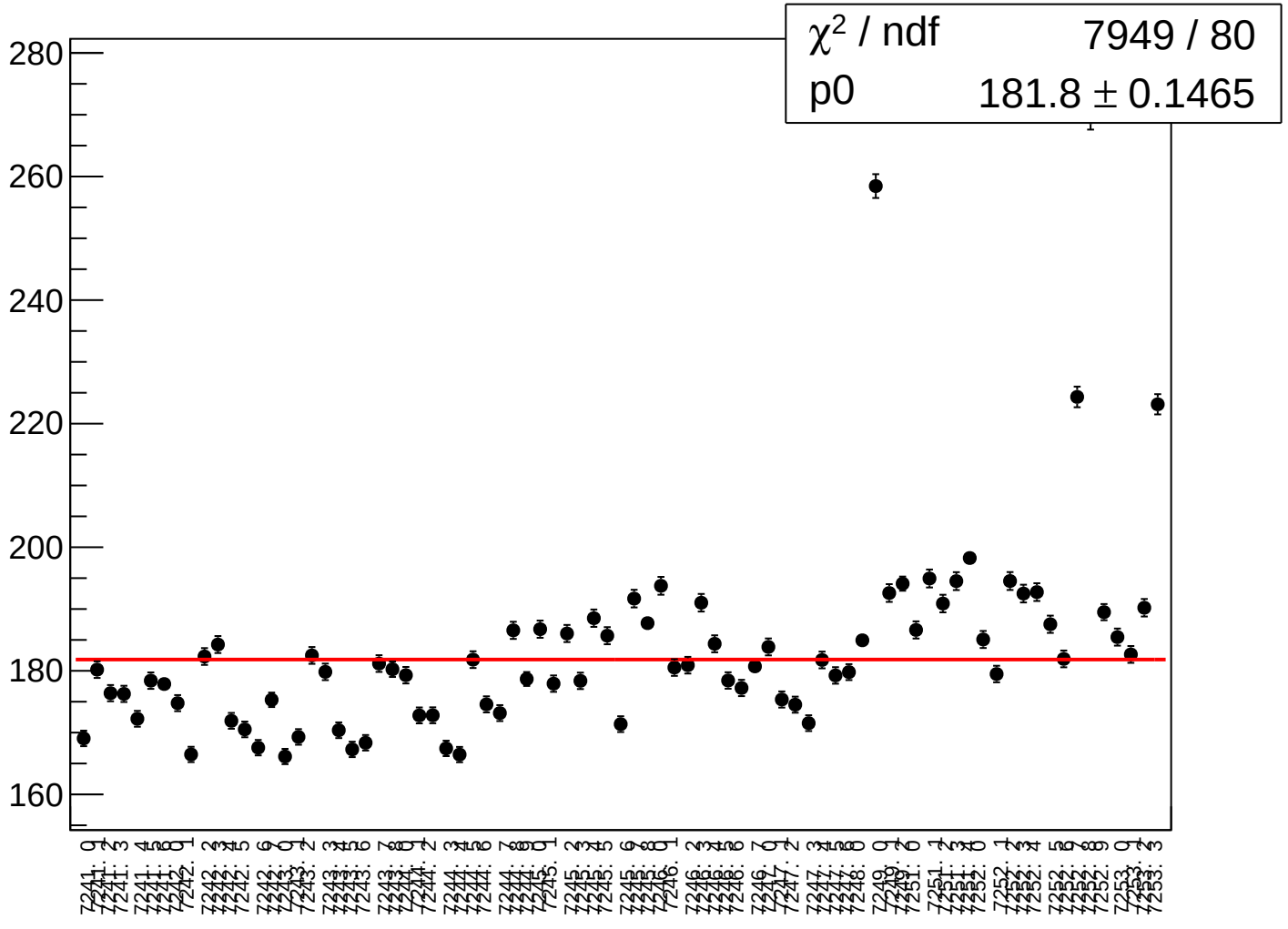

asym_bpm1i04WS_mean vs run
χ² / ndf 203.2 / 80
p0 9580 ± 171.4
pull
Entries 81
Mean −1417
Std Dev 0

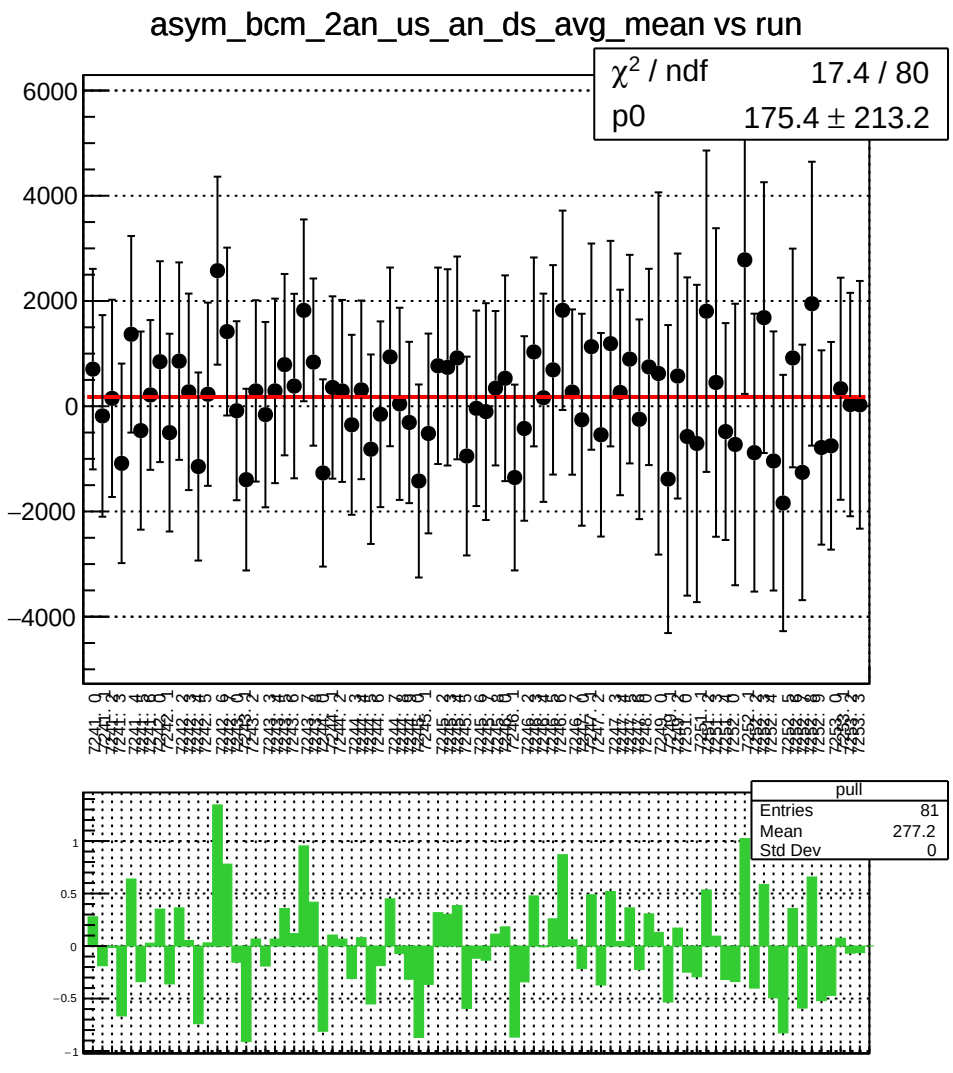

pull1D
Entries 81
Mean −0.004208
Std Dev 1.584

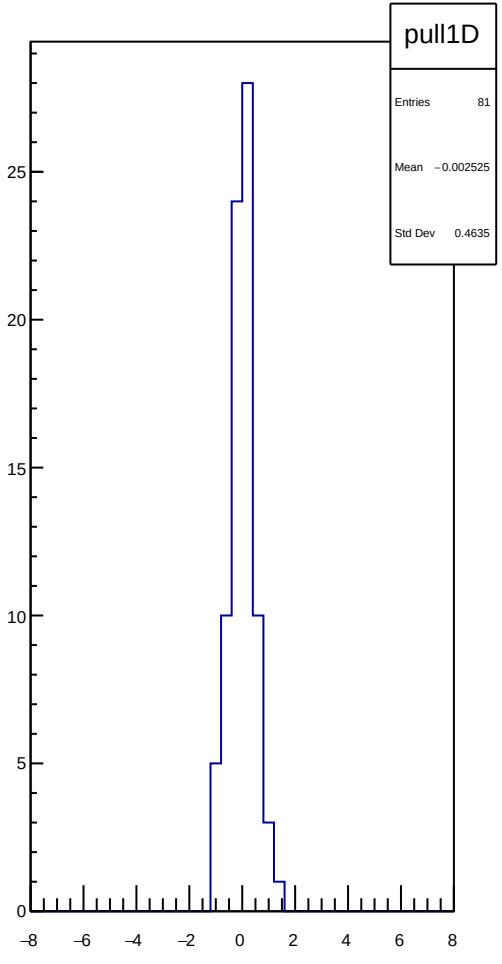

asym_bpm1i04WS_rms vs run
χ² / ndf 8864 / 80
p0 150.4 ± 0.1212
240
220
200
180
160
140

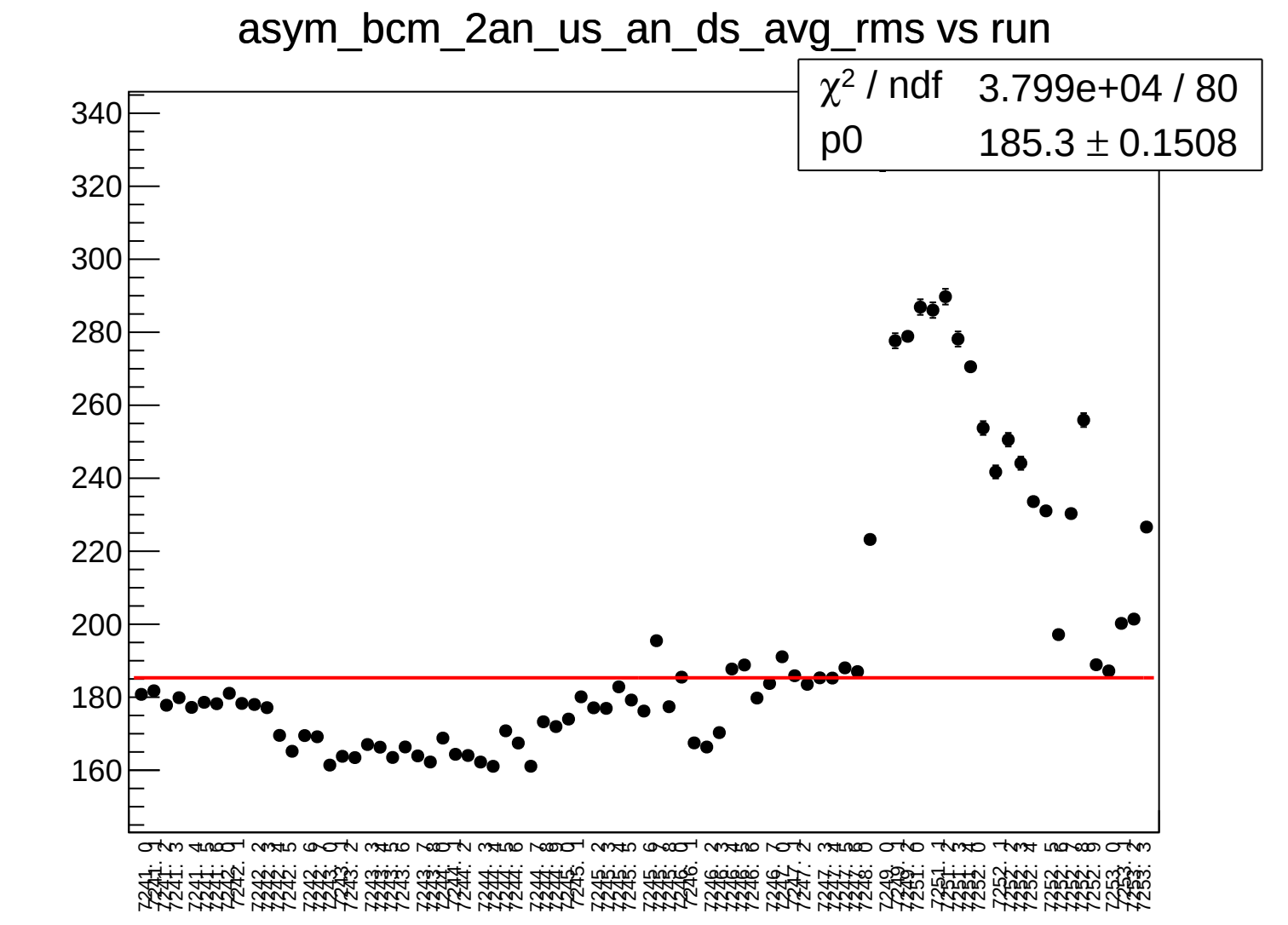

asym_bpm1i06WS_mean vs run
χ² / ndf 209 / 80
p0 1.155e+04 ± 207.1
pull
Entries 81
Mean −837.2
Std Dev 0

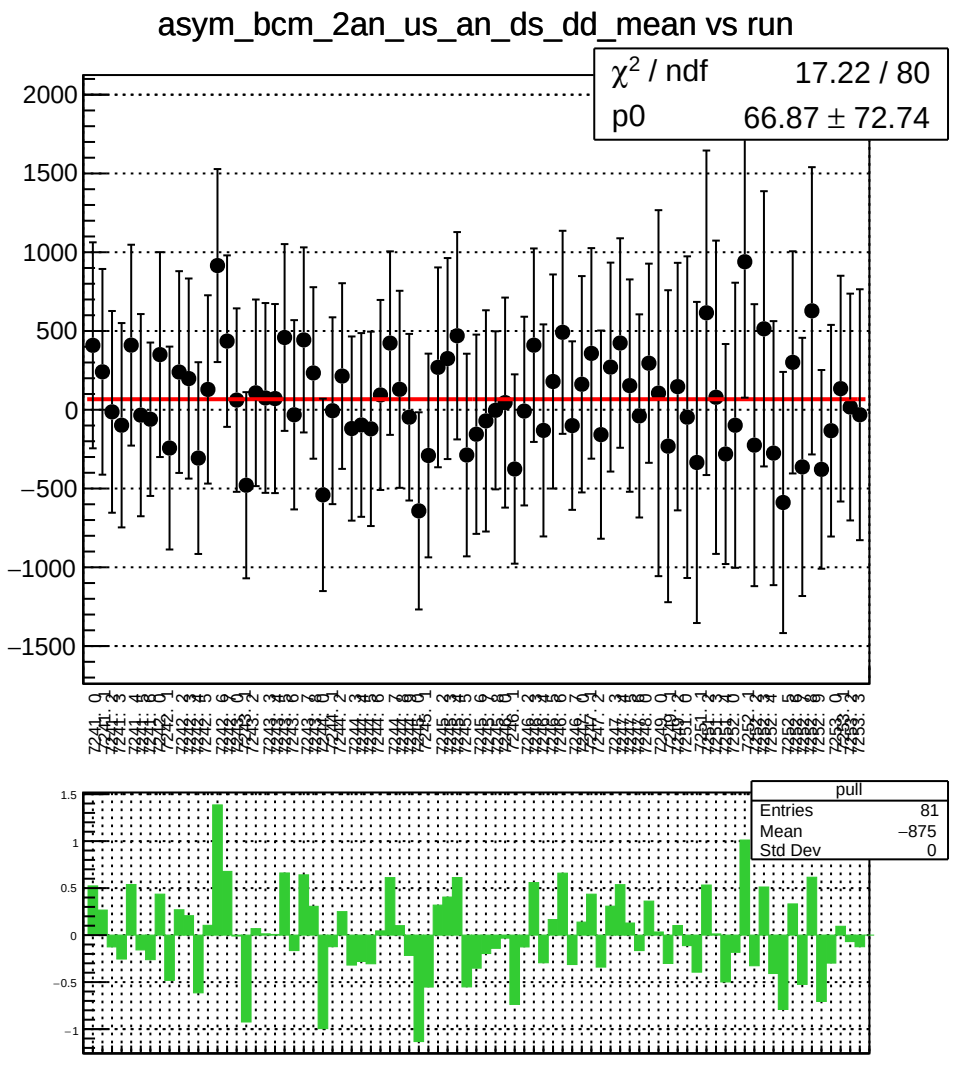

pull1D
Entries 81
Mean −0.008577
Std Dev 1.606

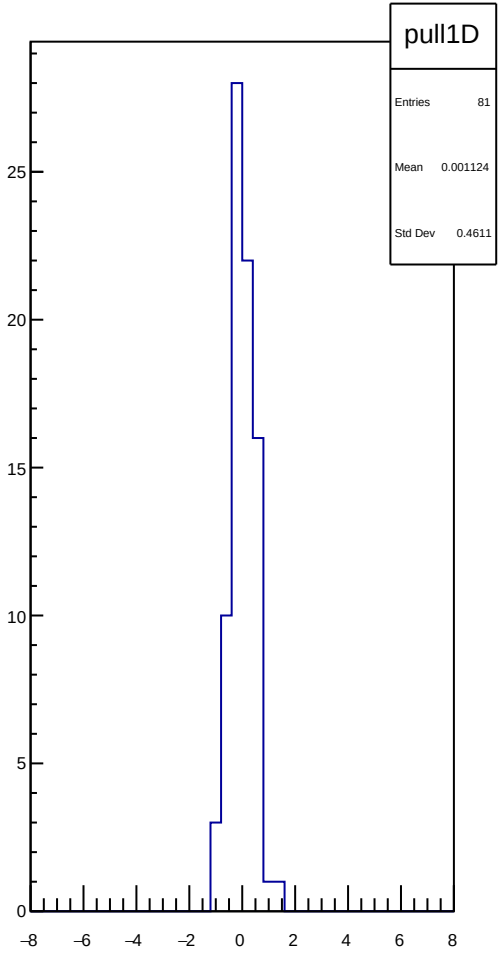

asym_bpm1i06WS_rms vs run
χ^2 / ndf 7949 / 80
p0 181.8 ± 0.1465
280
260
240
220
200
180
160

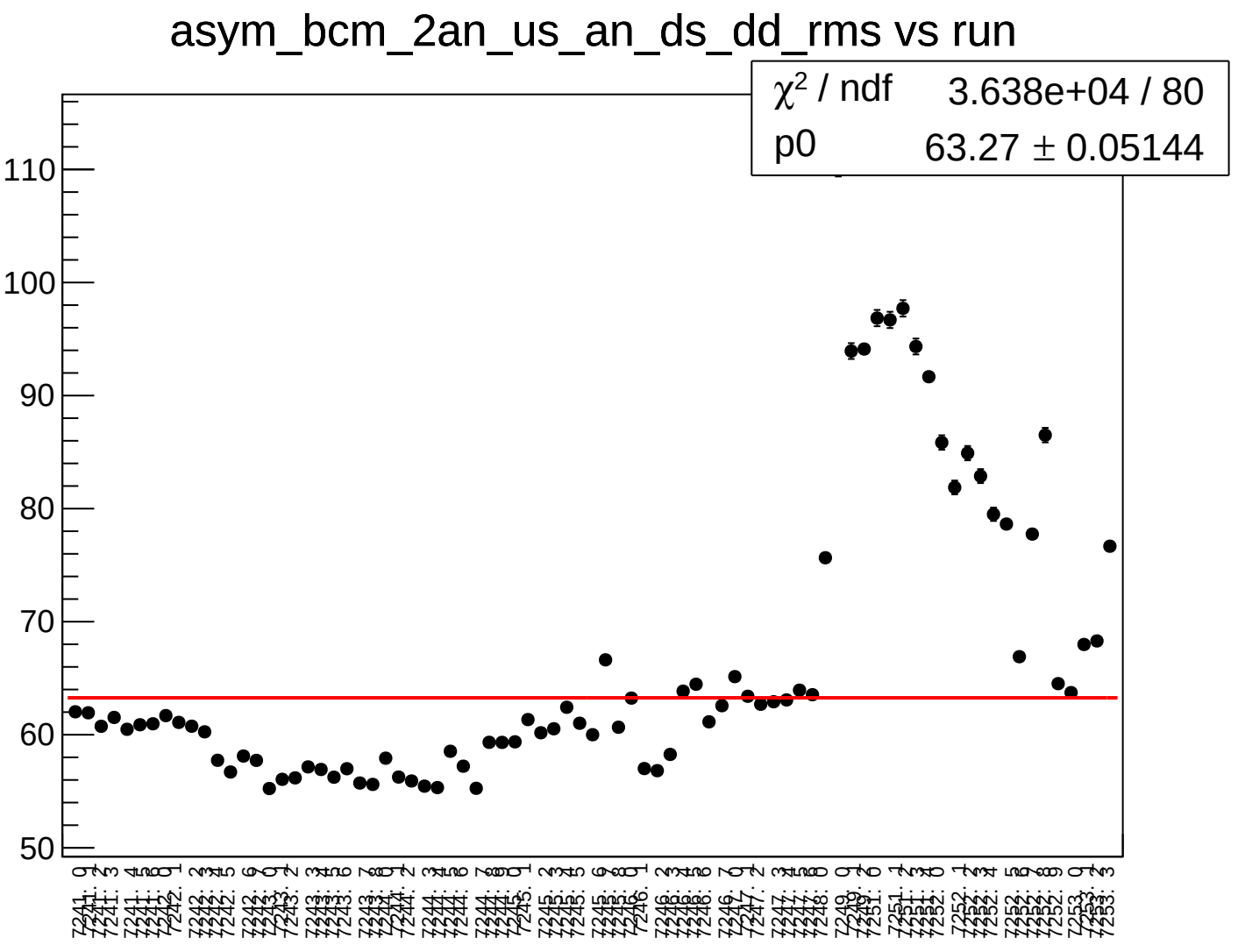

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 17.4 / 80
p0 175.4 ± 213.2
6000
4000
2000
0
−2000
−4000
pull
Entries 81
Mean 277.2
Std Dev 0
1
0.5
0
−0.5
−1

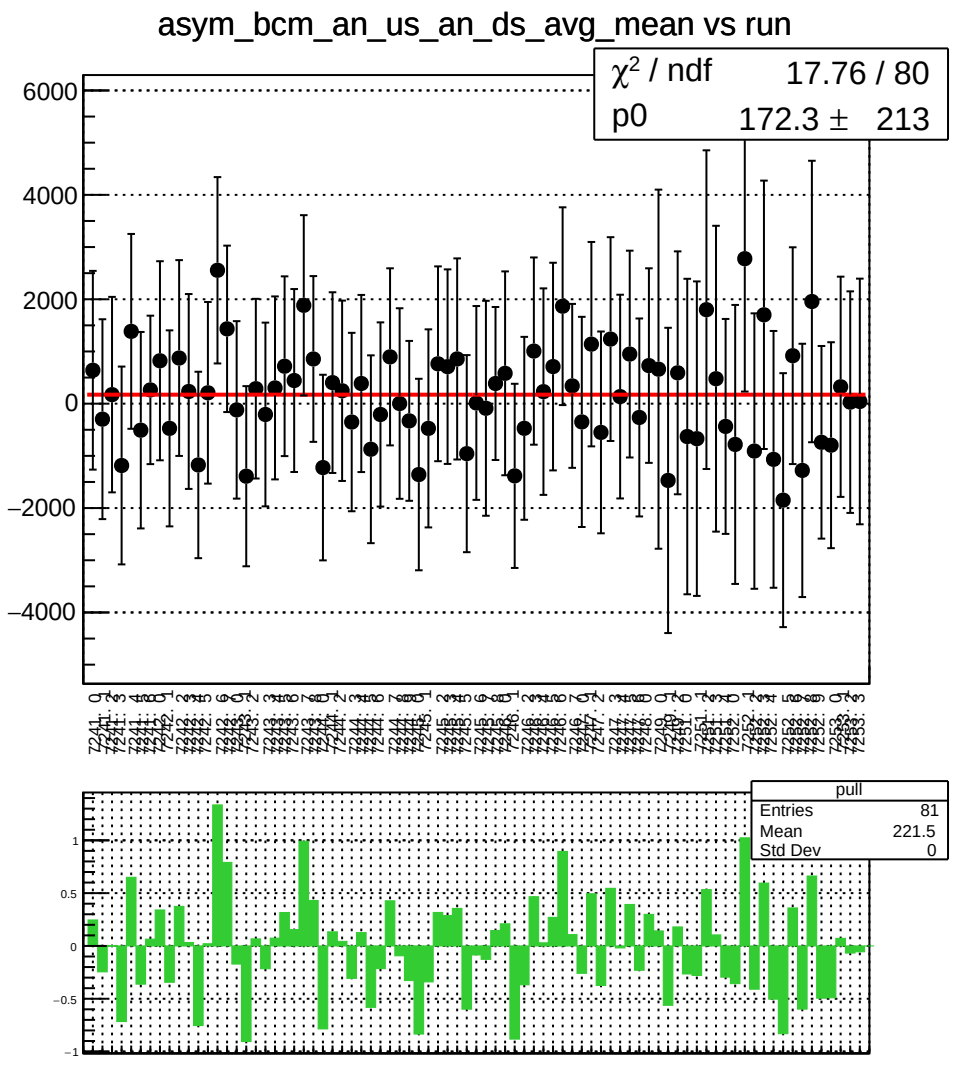

pull1D
Entries 81
Mean −0.002525
Std Dev 0.4635
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

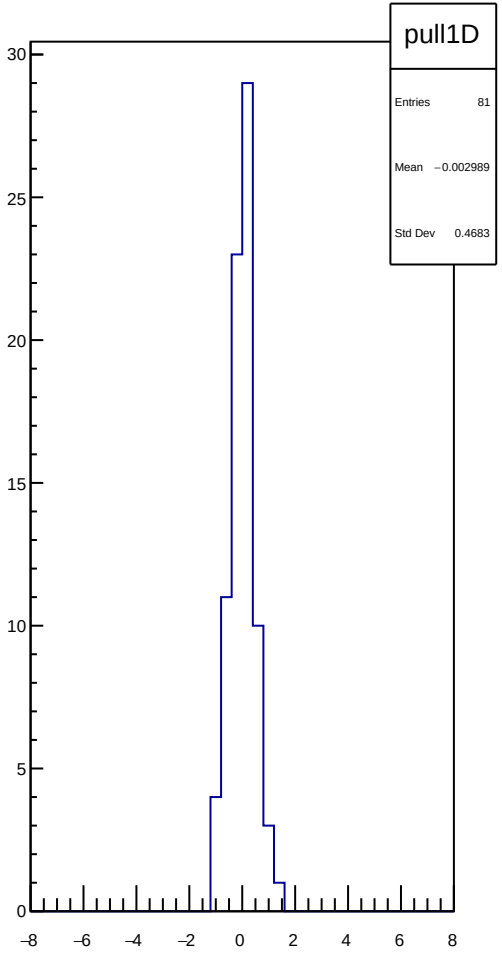

asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 3.799e+04 / 80
p0 185.3 ± 0.1508
340
320
300
280
260
240
220
200
180
160

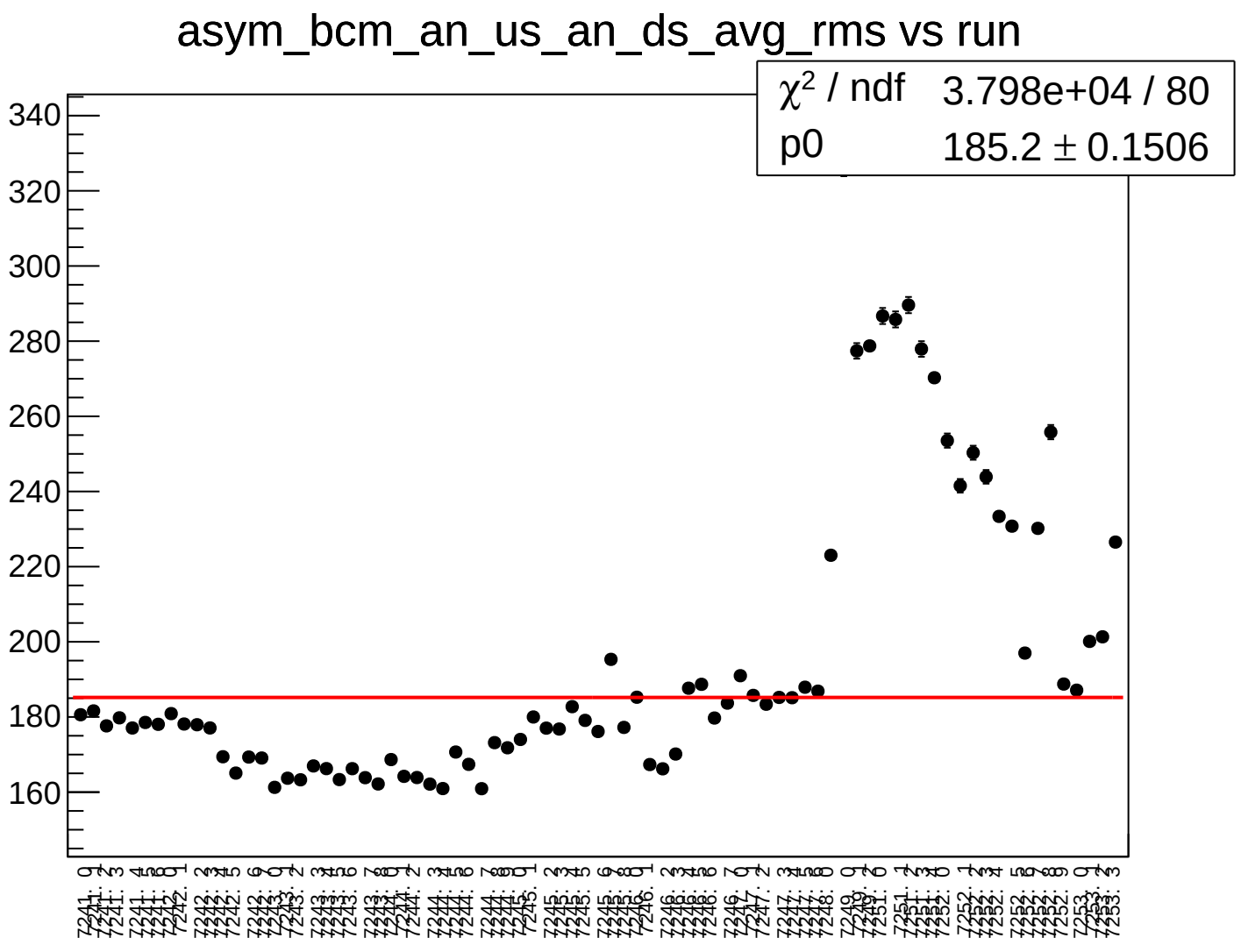

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 17.22 / 80
p0 66.87 ± 72.74
pull
Entries 81
Mean −875
Std Dev 0

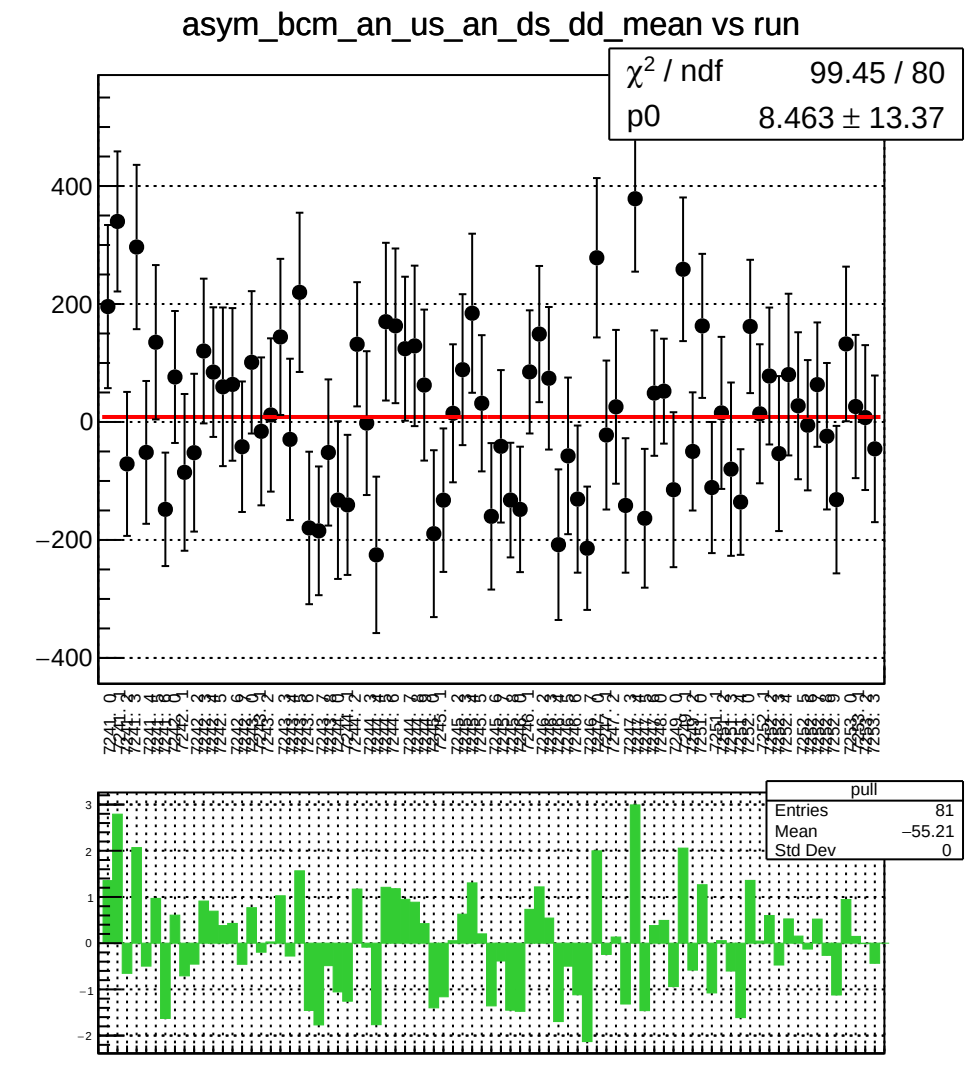

pull1D
Entries 81
Mean 0.001124
Std Dev 0.4611

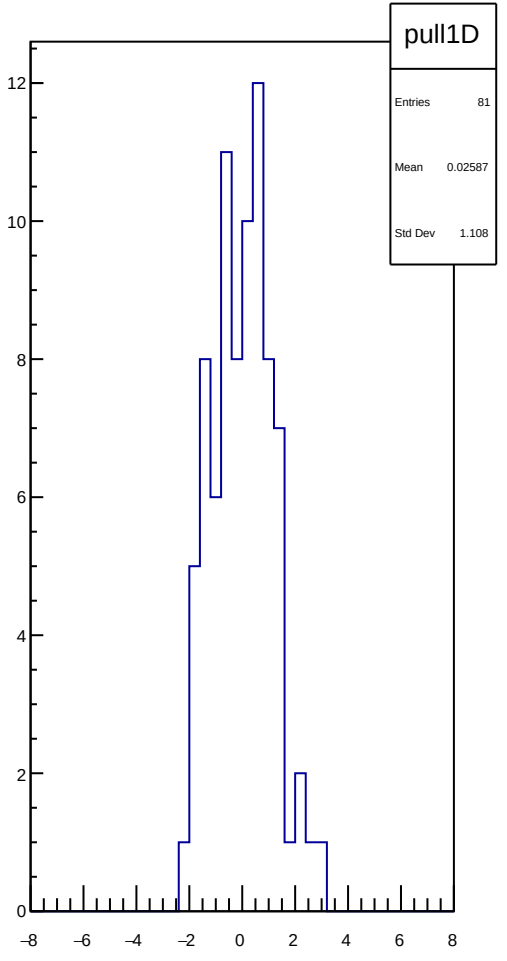

asym_bcm_2an_us_an_ds_dd_rms vs run
χ² / ndf 3.638e+04 / 80
p0 63.27 ± 0.05144
110
100
90
80
70
60
50

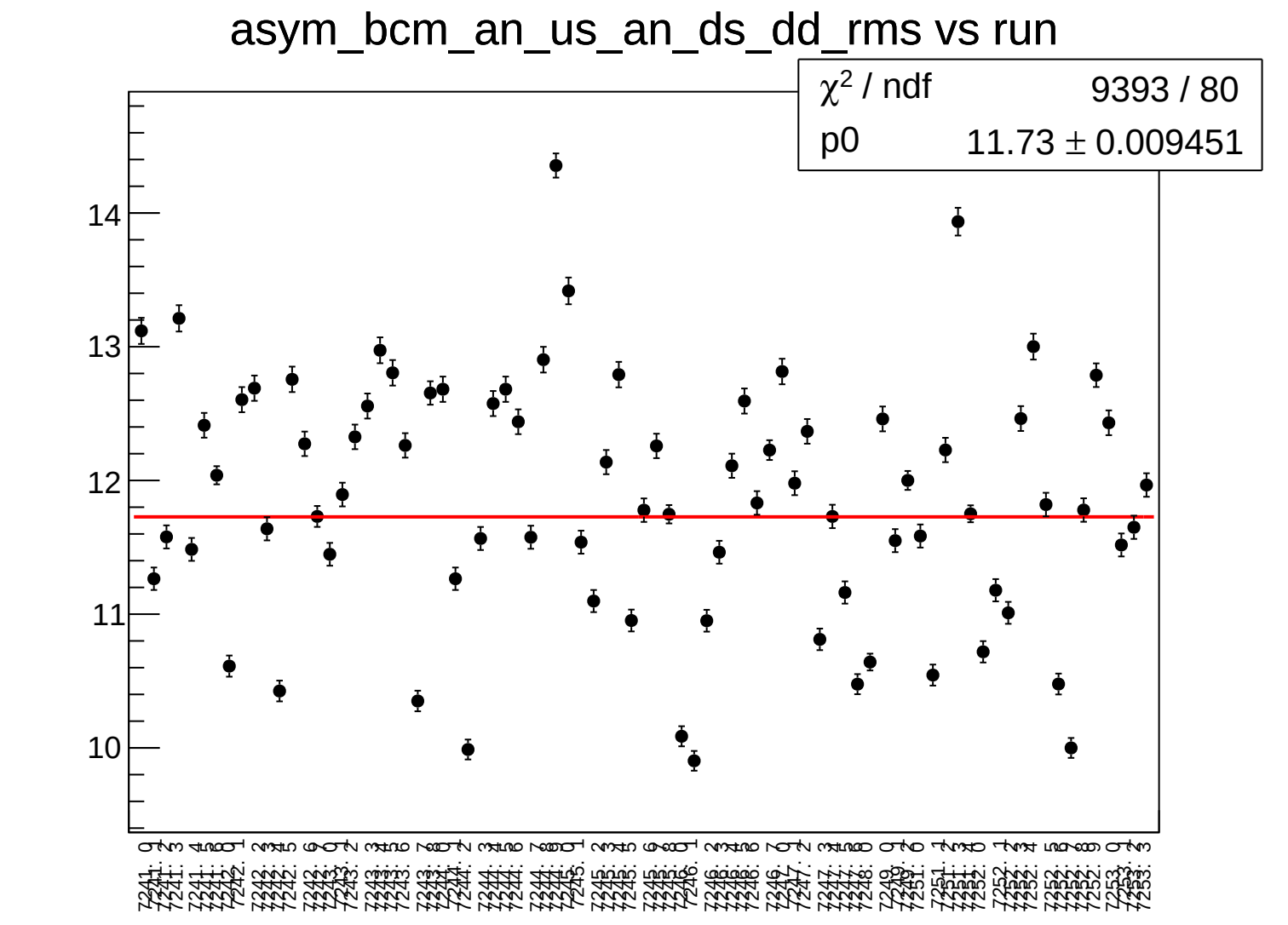

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 17.76 / 80
p0 172.3 ± 213
pull
Entries 81
Mean 221.5
Std Dev 0

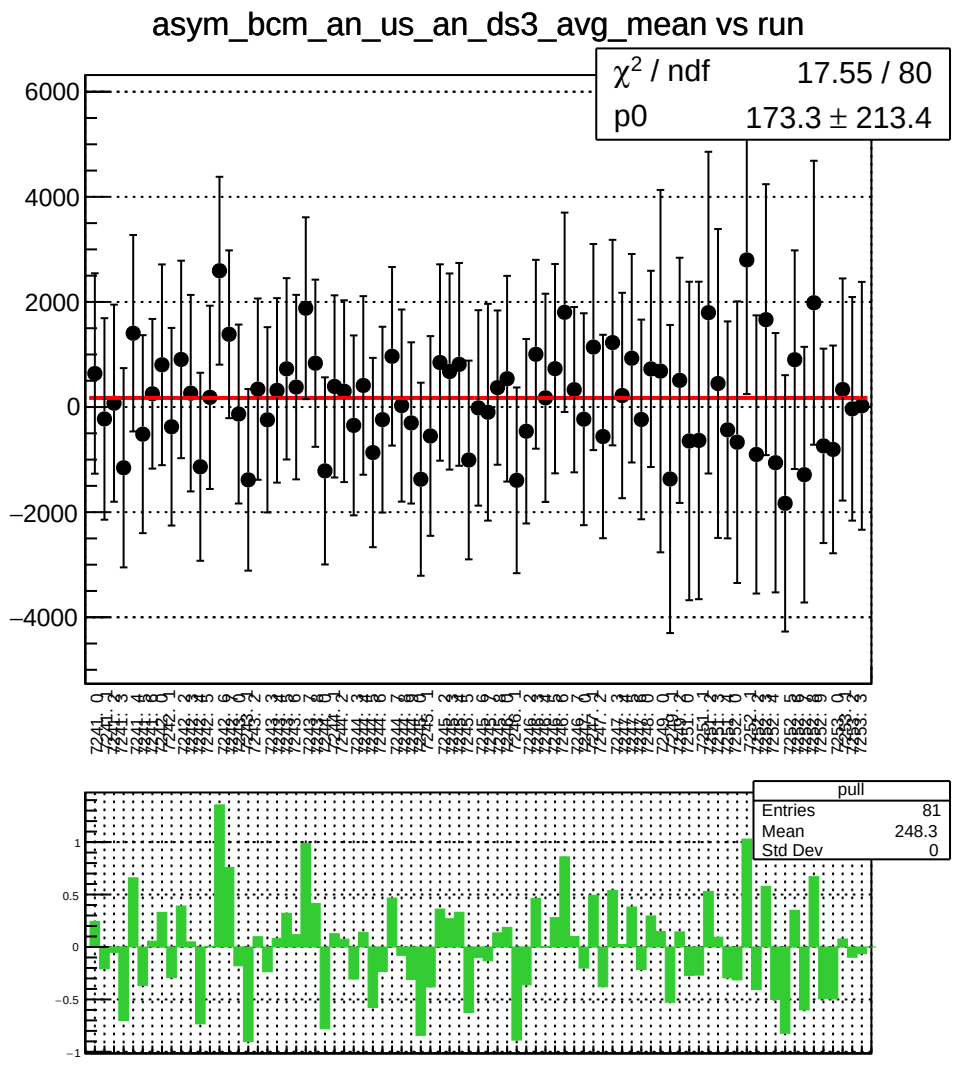

pull1D
Entries 81
Mean −0.002989
Std Dev 0.4683

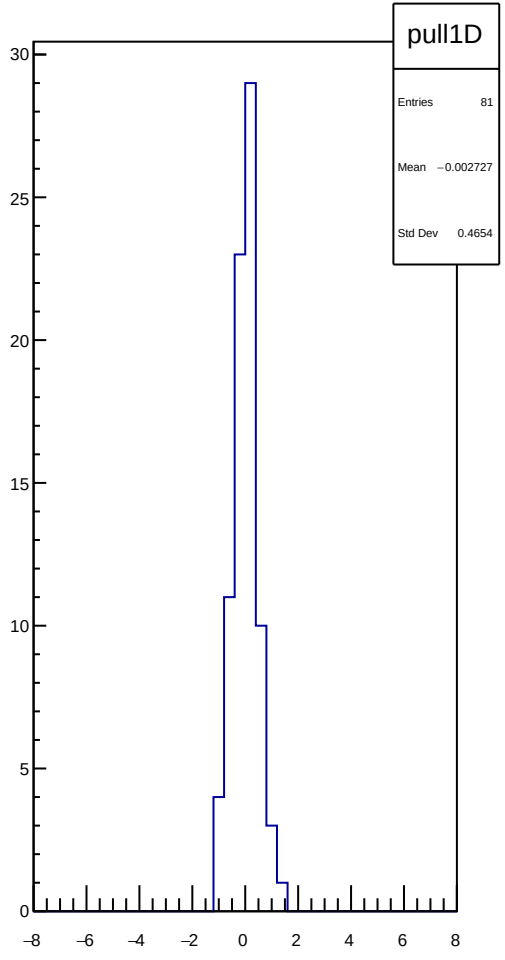

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 3.798e+04 / 80
p0 185.2 ± 0.1506
340
320
300
280
260
240
220
200
180
160

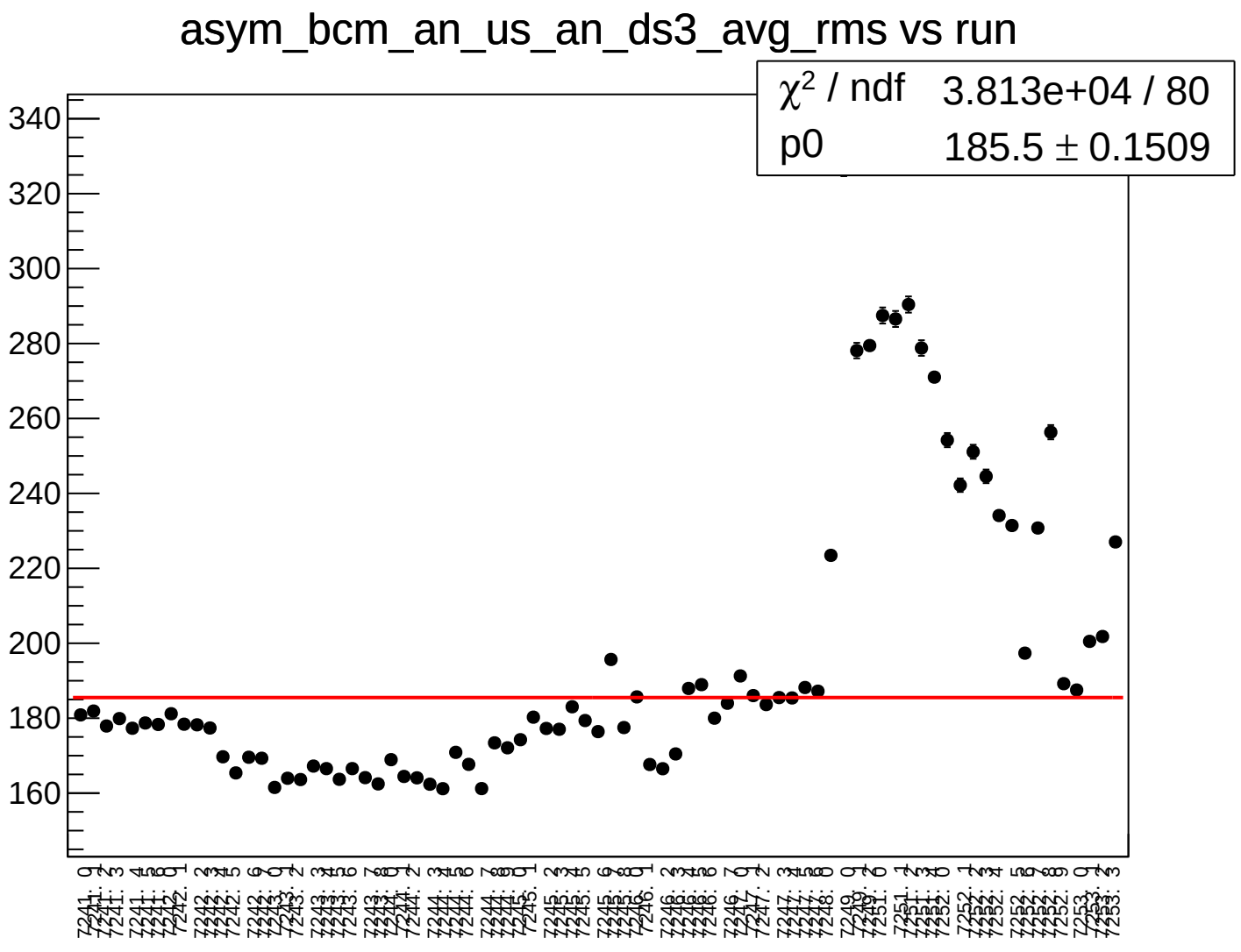

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 99.45 / 80
p0 8.463 ± 13.37
400
200
0
−200
−400
pull
Entries 81
Mean −55.21
Std Dev 0
3
2
1
0
−1
−2

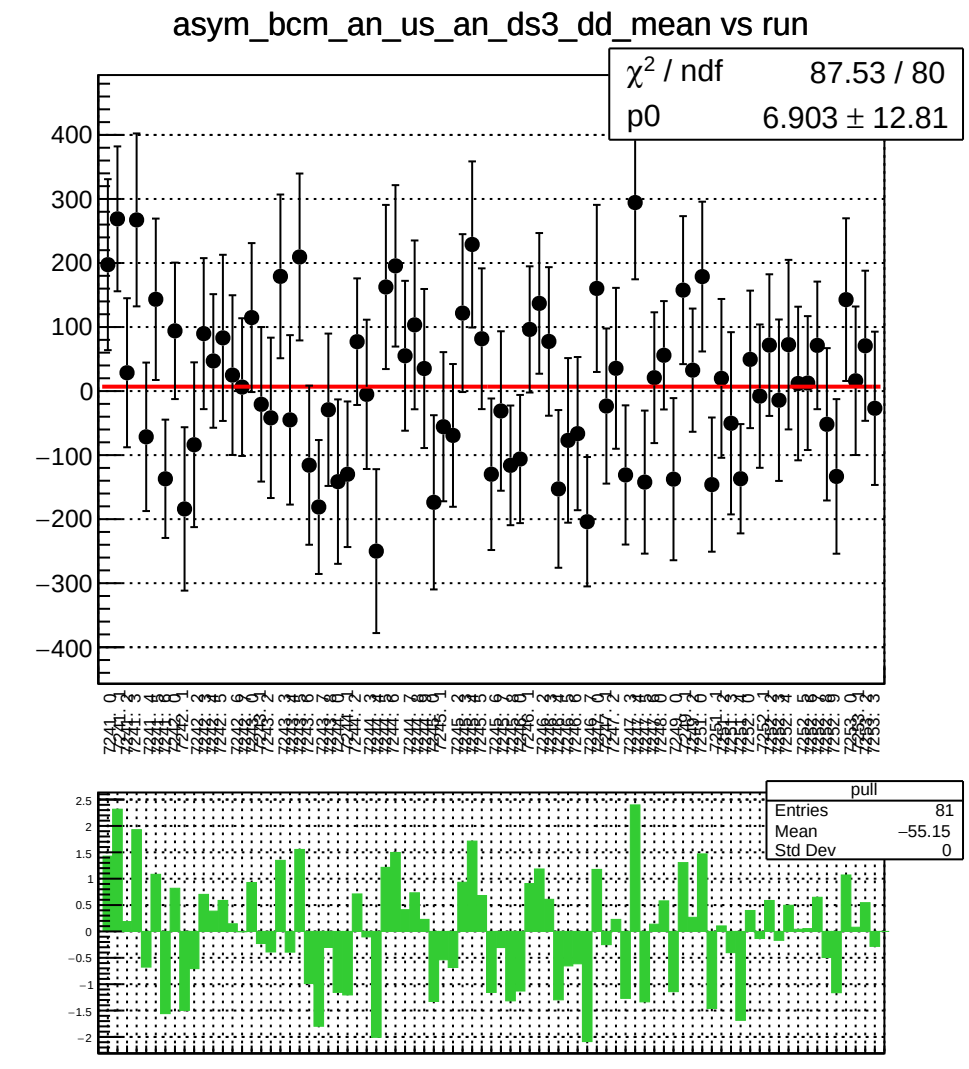

pull1D
Entries 81
Mean 0.02587
Std Dev 1.108
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

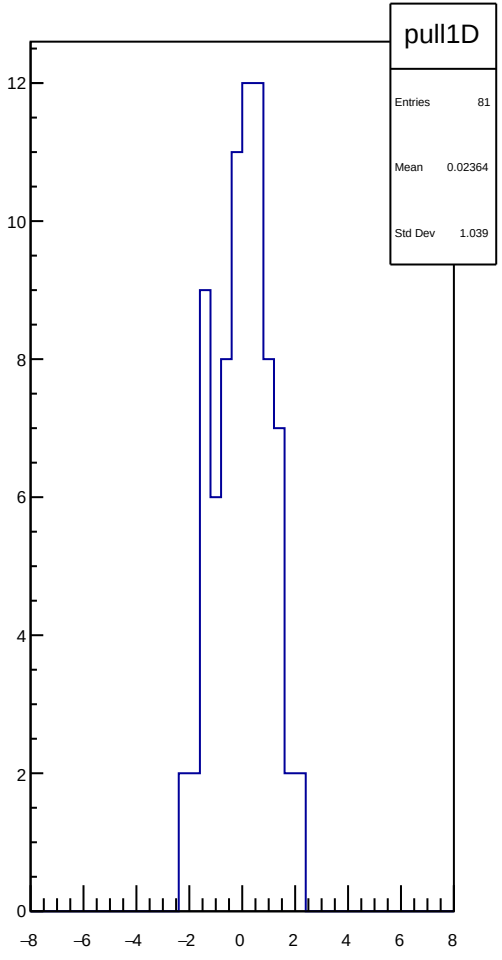

asym_bcm_an_us_an_ds_dd_rms vs run
χ^2 / ndf 9393 / 80
p0 11.73 ± 0.009451
14
13
12
11
10

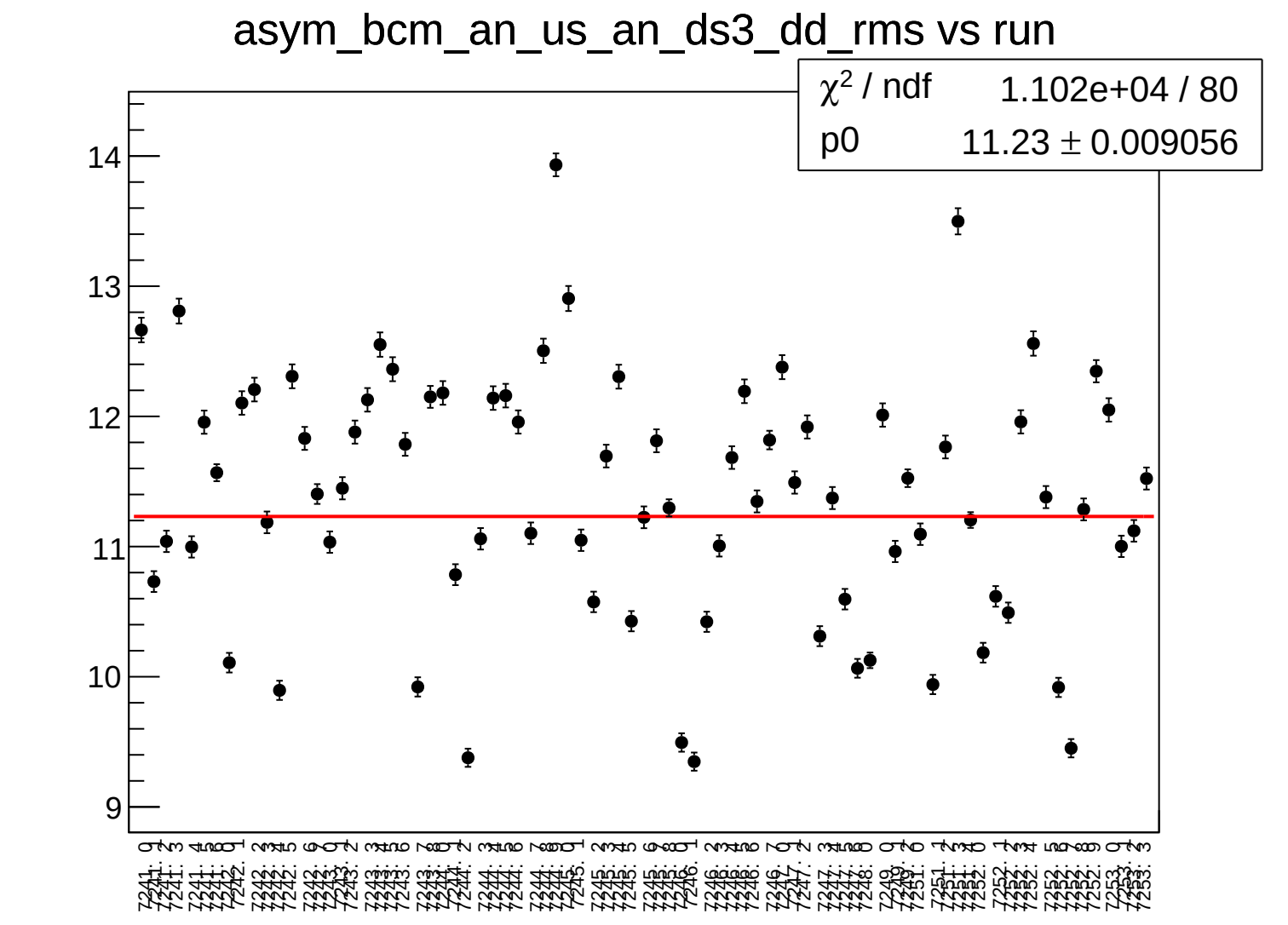

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 17.55 / 80
p0 173.3 ± 213.4
6000
4000
2000
0
−2000
−4000
pull
Entries 81
Mean 248.3
Std Dev 0
1
0.5
0
−0.5
−1

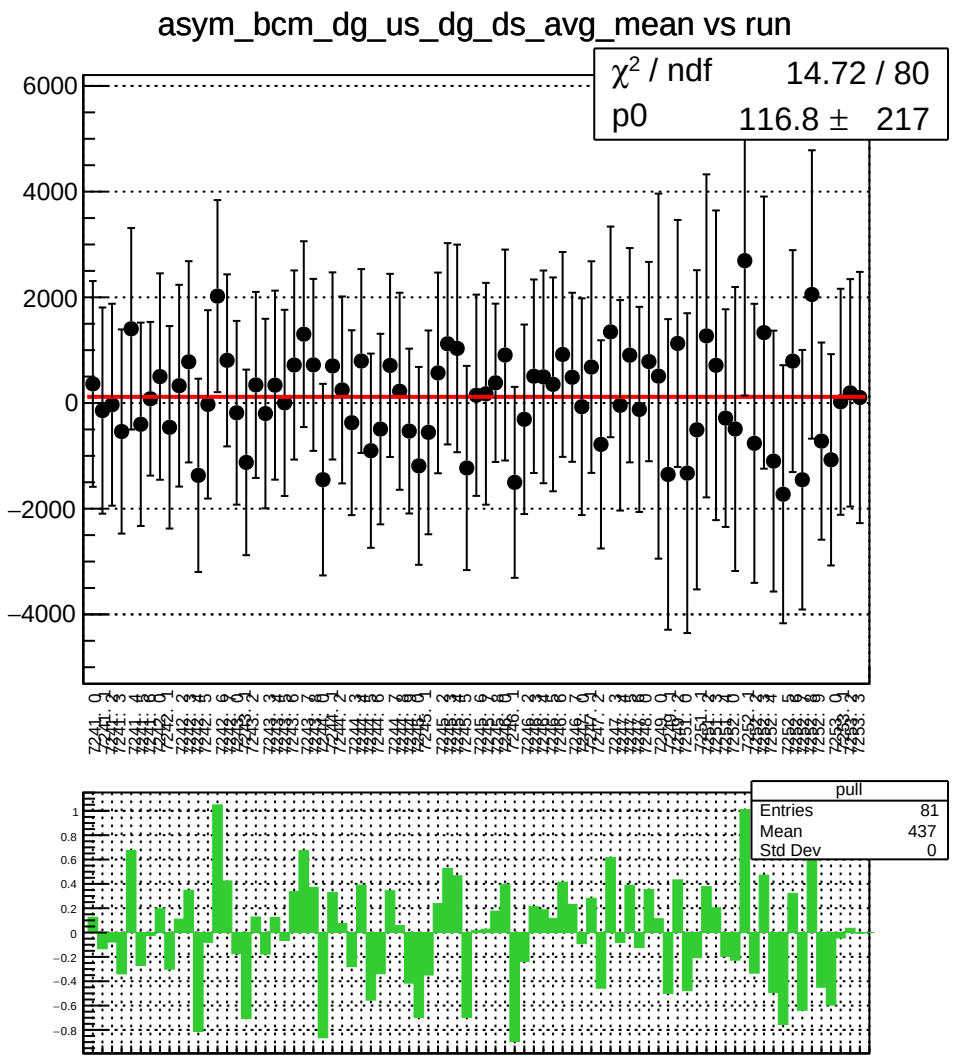

pull1D
Entries 81
Mean −0.002727
Std Dev 0.4654
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

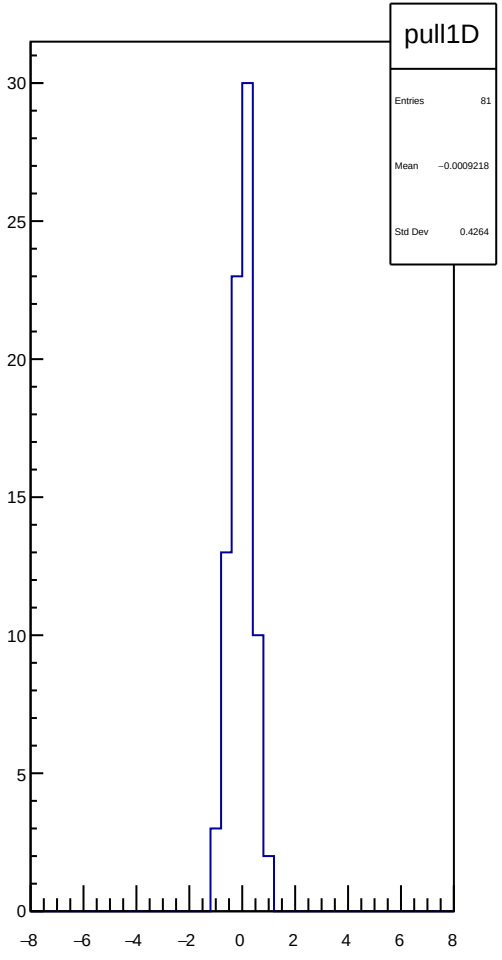

asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 3.813e+04 / 80
p0 185.5 ± 0.1509
340
320
300
280
260
240
220
200
180
160

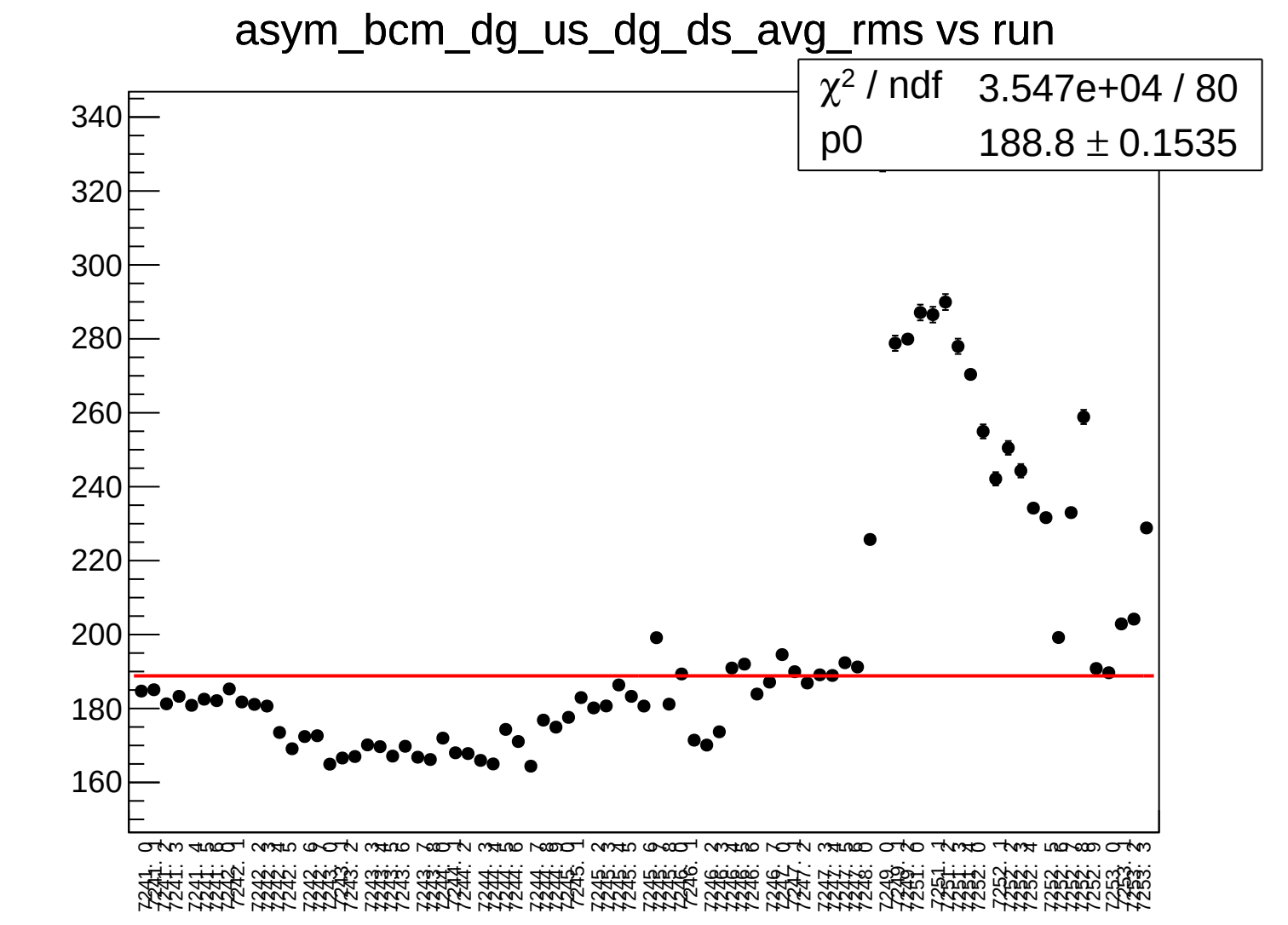

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 87.53 / 80
p0 6.903 ± 12.81
pull
Entries 81
Mean −55.15
Std Dev 0

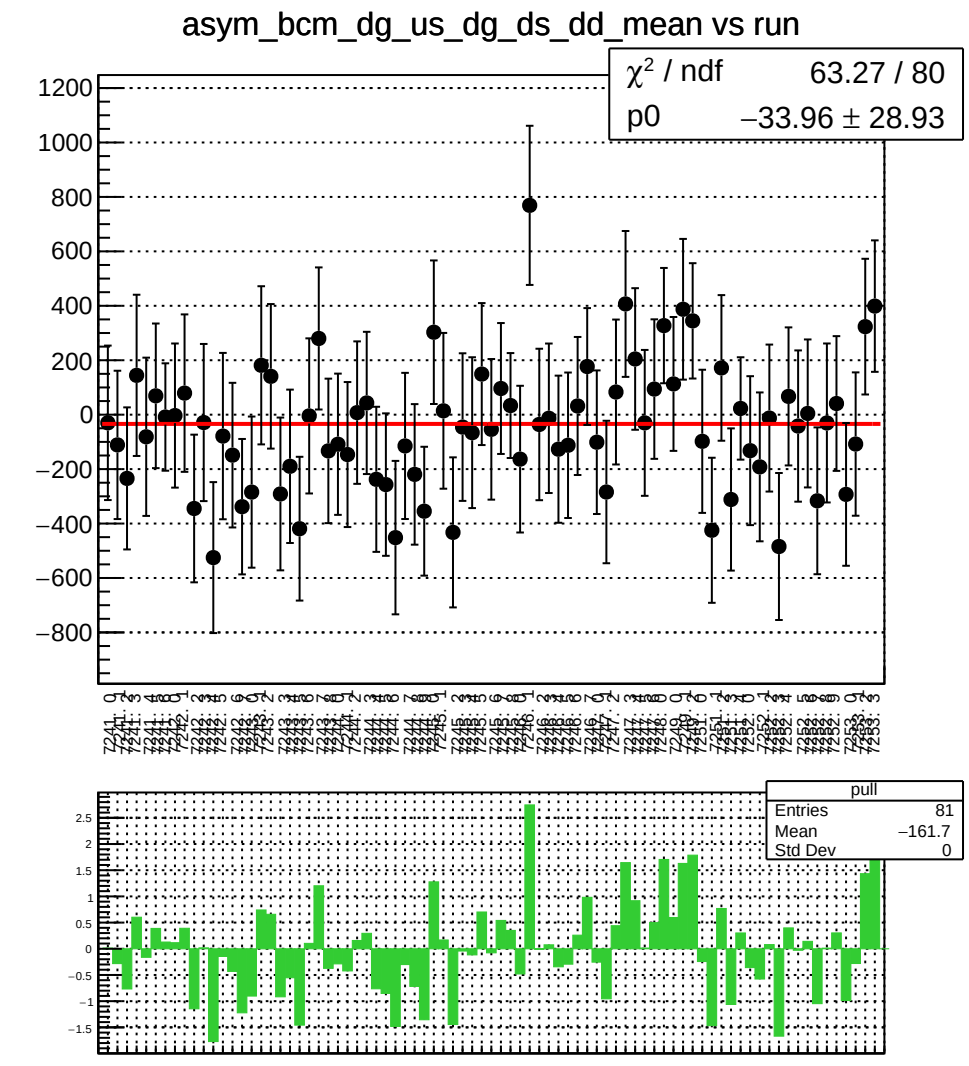

pull1D
Entries 81
Mean 0.02364
Std Dev 1.039

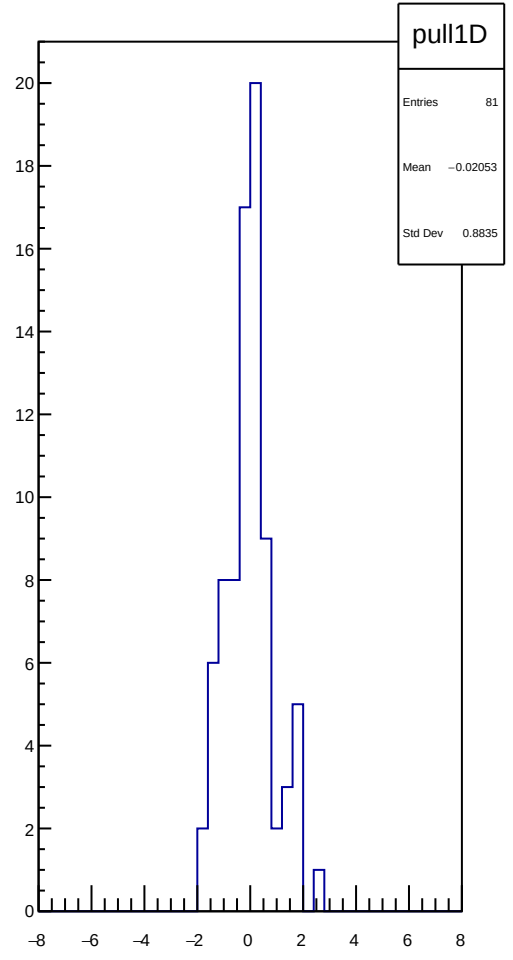

asym_bcm_an_us_an_ds3_dd_rms vs run
χ² / ndf 1.102e+04 / 80
p0 11.23 ± 0.009056
14
13
12
11
10
9

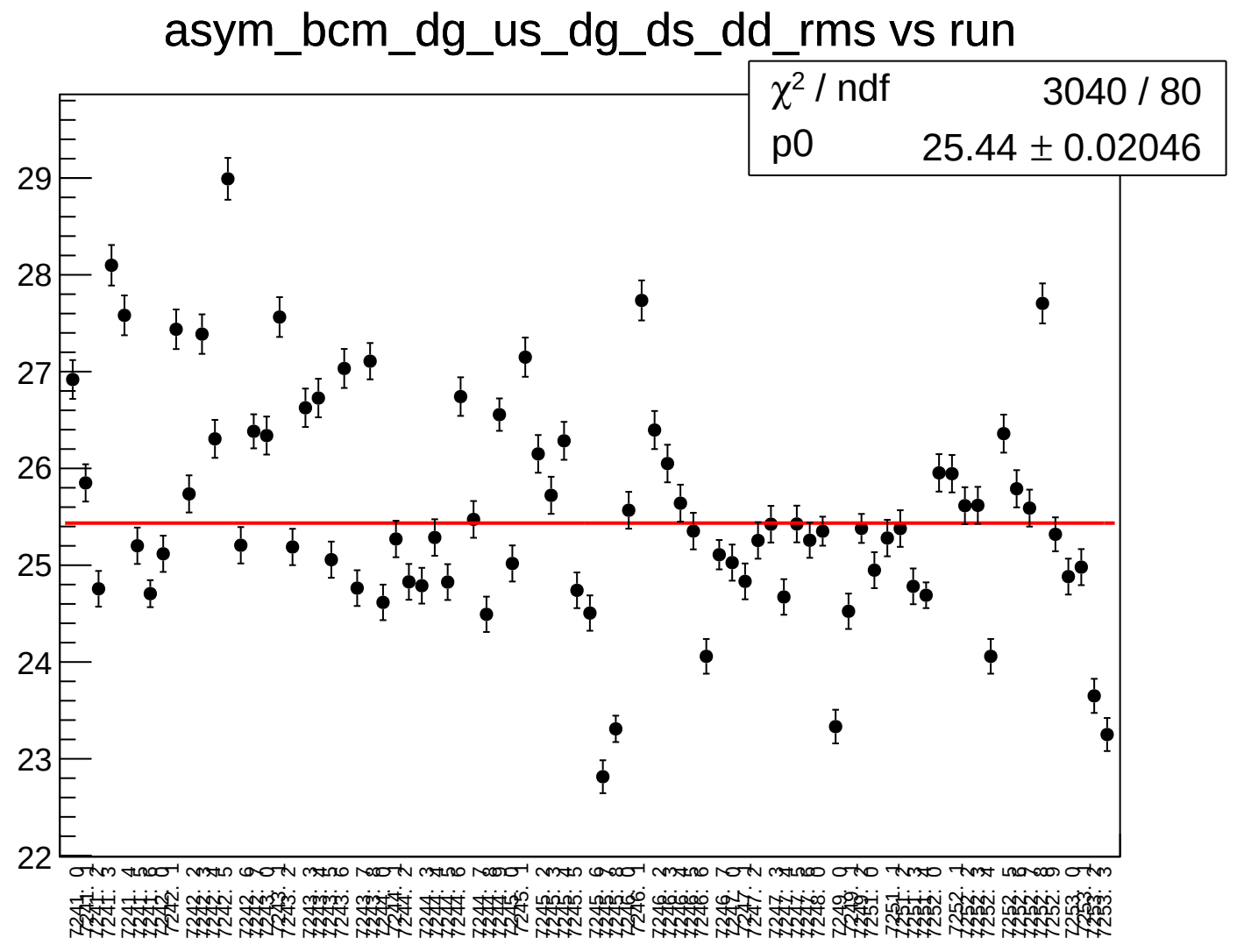

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 14.72 / 80
p0 116.8 ± 217
pull
Entries 81
Mean 437
Std Dev 0

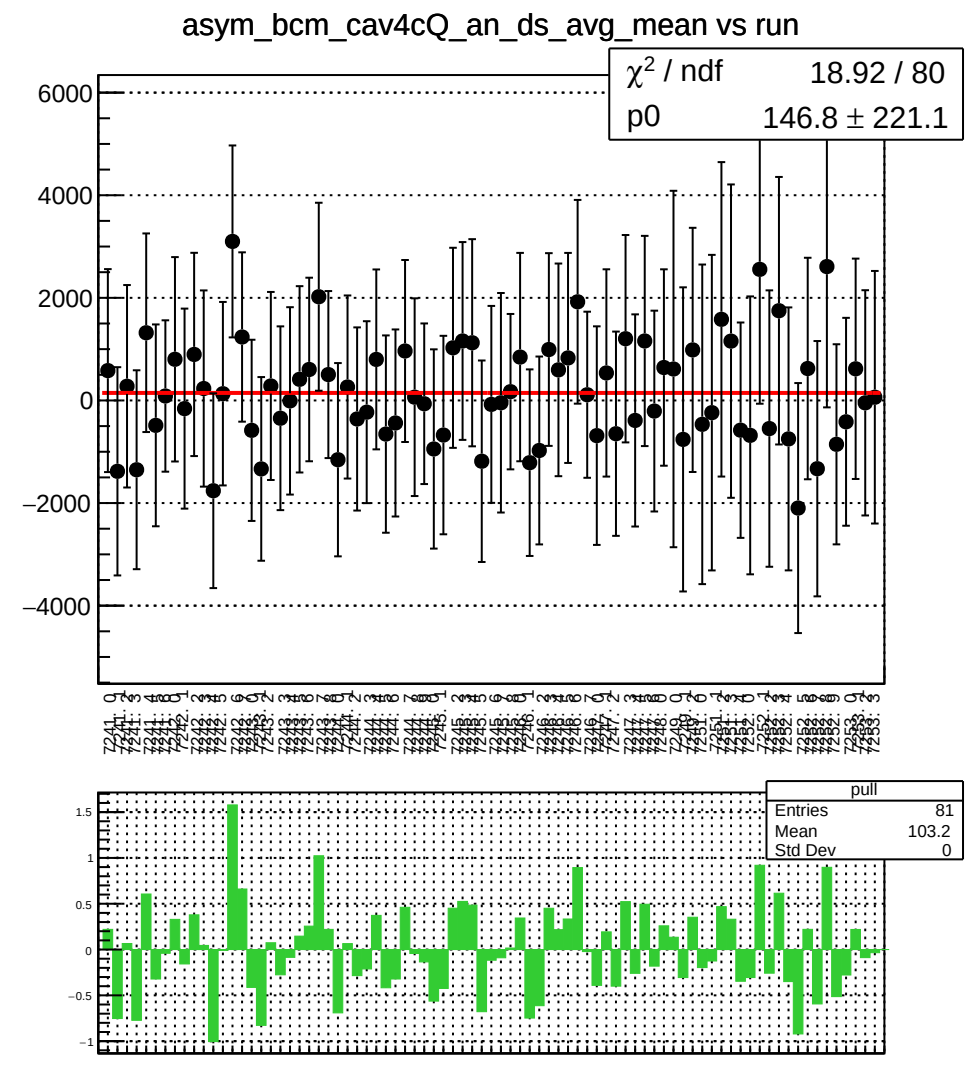

pull1D
Entries 81
Mean −0.0009218
Std Dev 0.4264

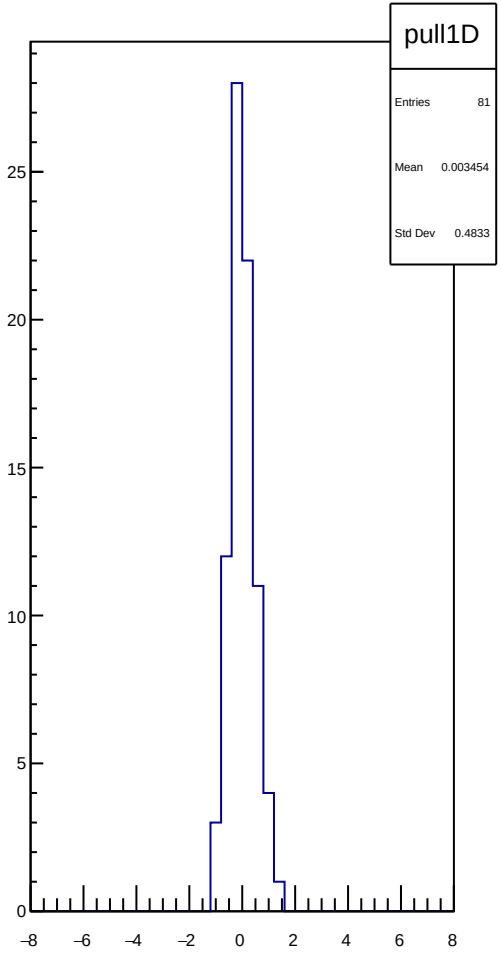

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 3.547e+04 / 80
p0 188.8 ± 0.1535
340
320
300
280
260
240
220
200
180
160

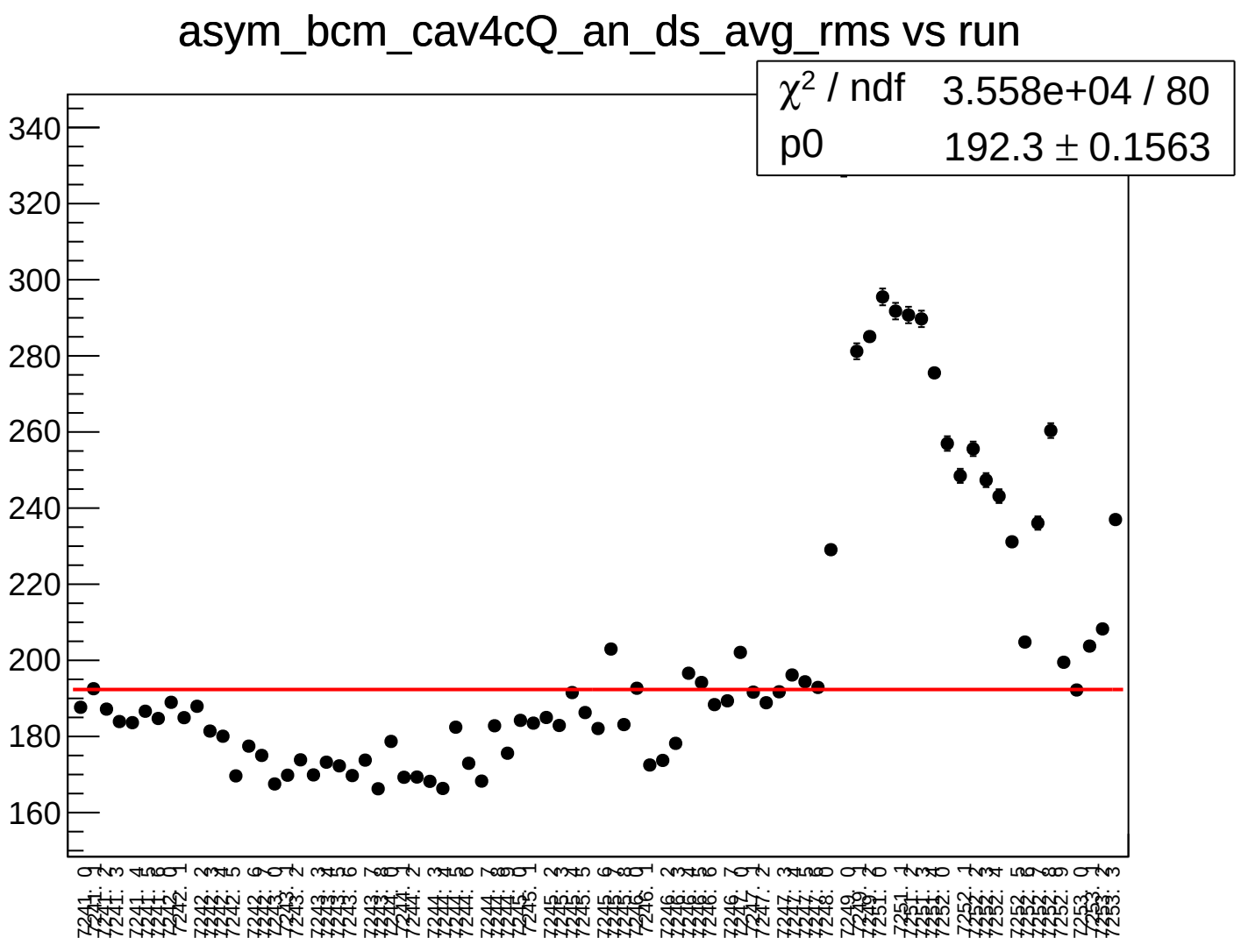

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 63.27 / 80
p0 −33.96 ± 28.93
pull
Entries 81
Mean −161.7
Std Dev 0

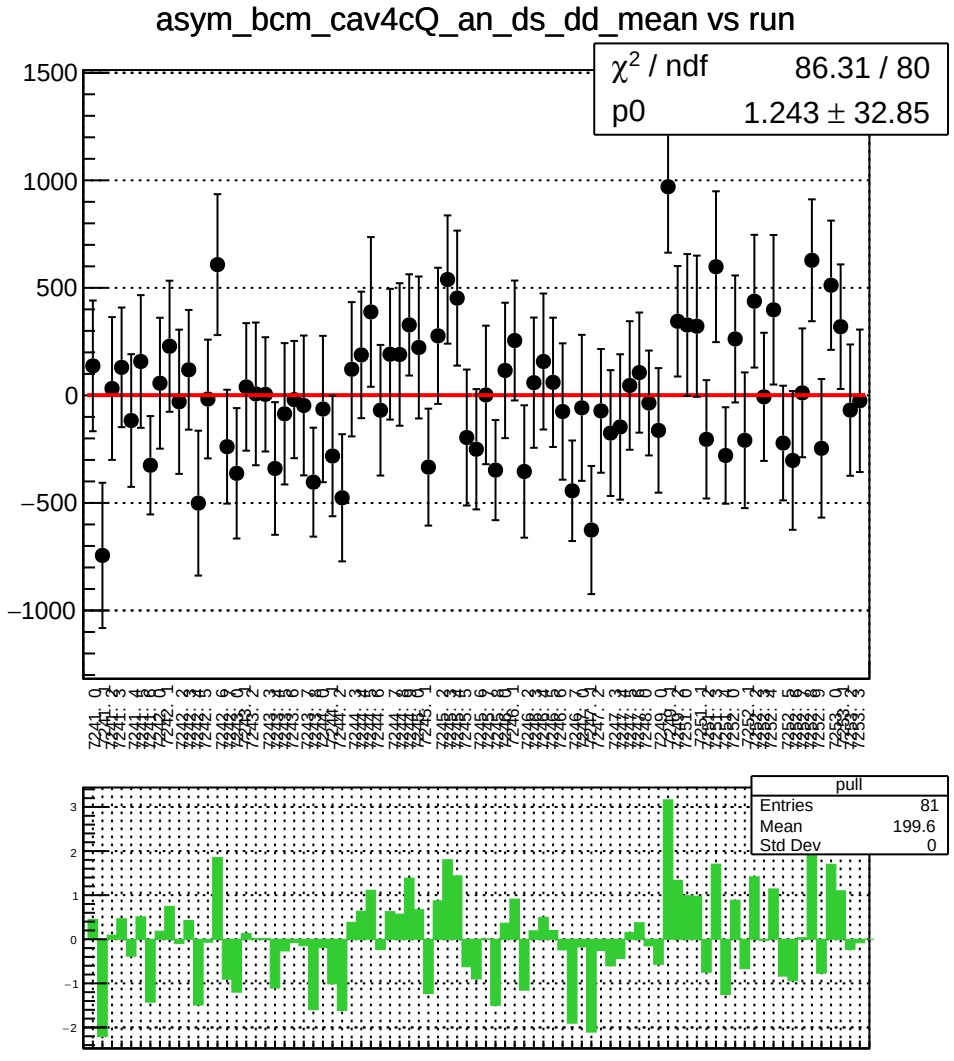

pull1D
Entries 81
Mean −0.02053
Std Dev 0.8835

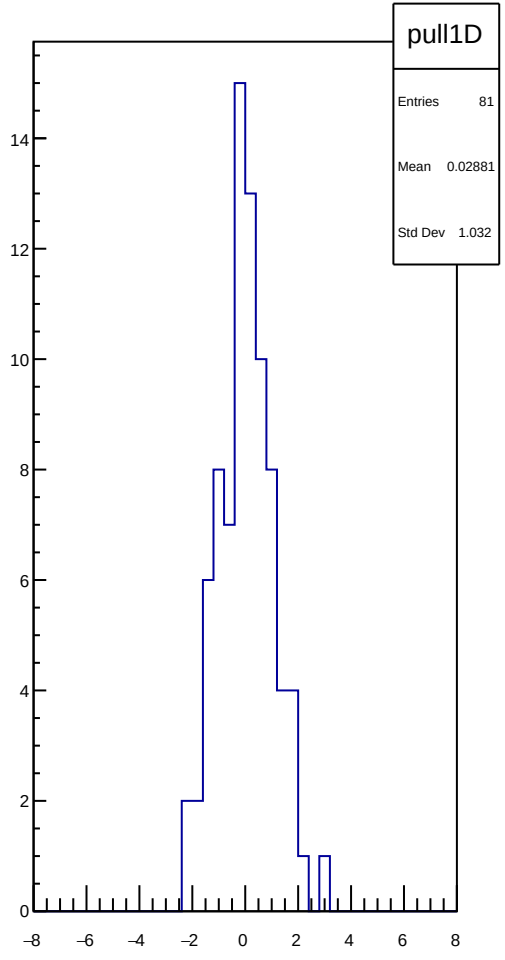

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 3040 / 80
p0 25.44 ± 0.02046
29
28
27
26
25
24
23
22

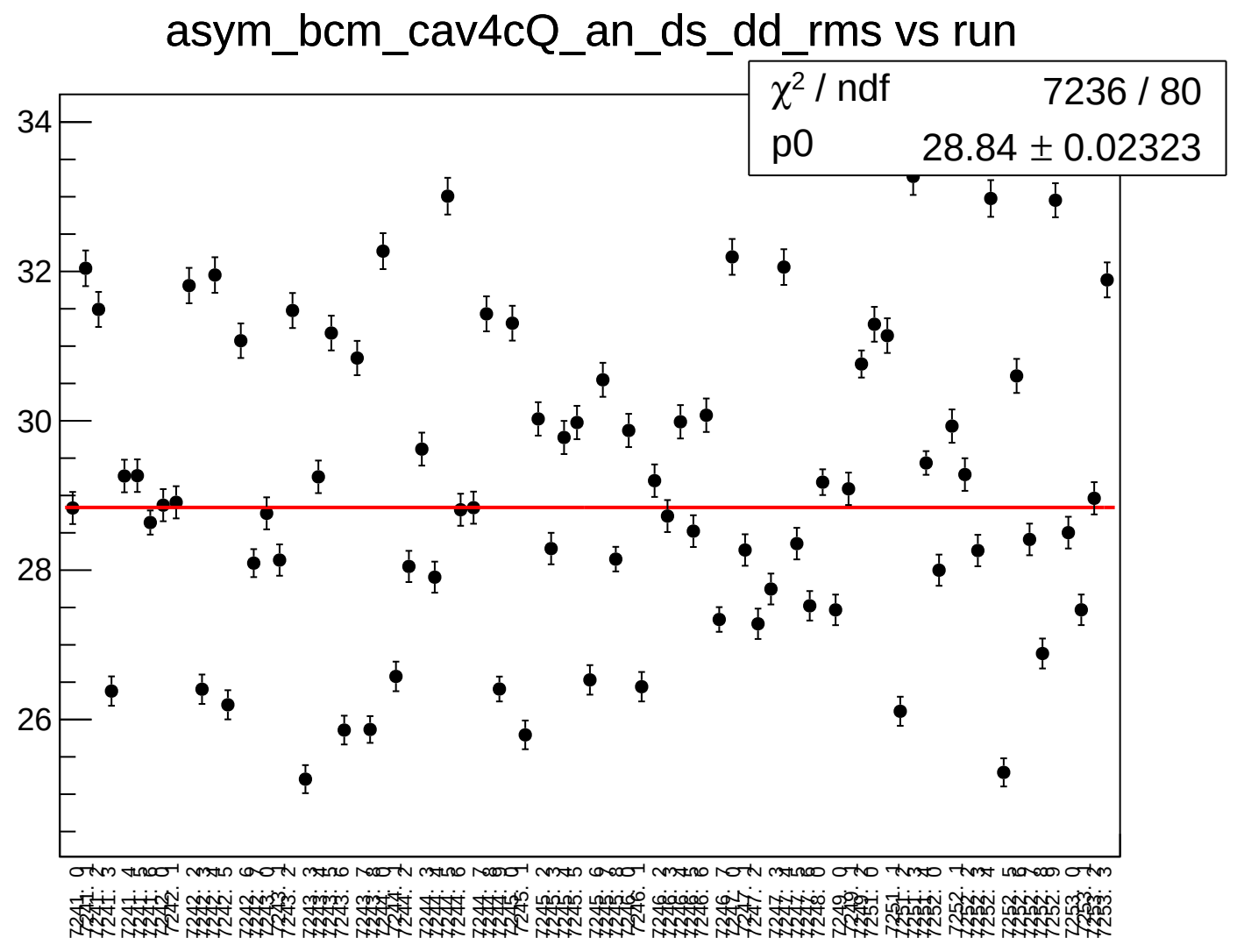

asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 18.92 / 80
p0 146.8 ± 221.1
pull
Entries 81
Mean 103.2
Std Dev 0

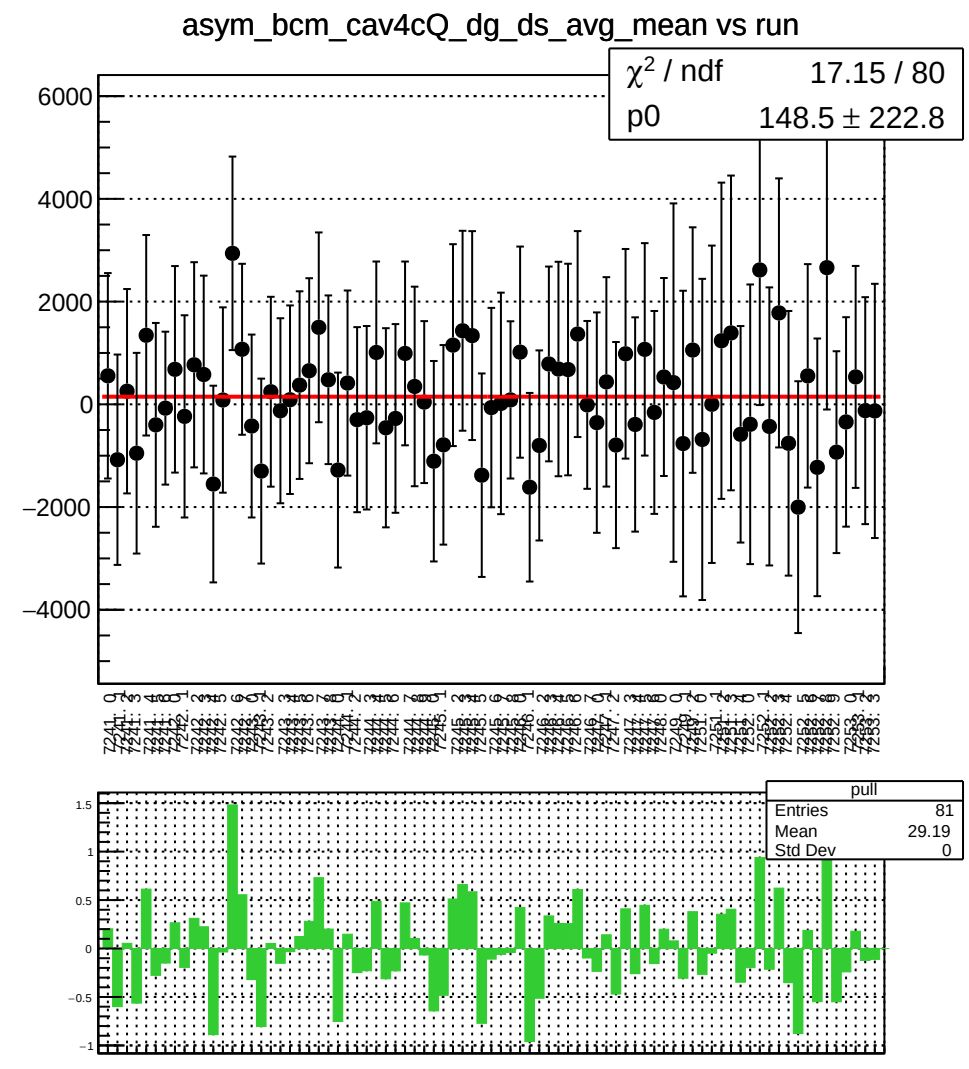

pull1D
Entries 81
Mean 0.003454
Std Dev 0.4833

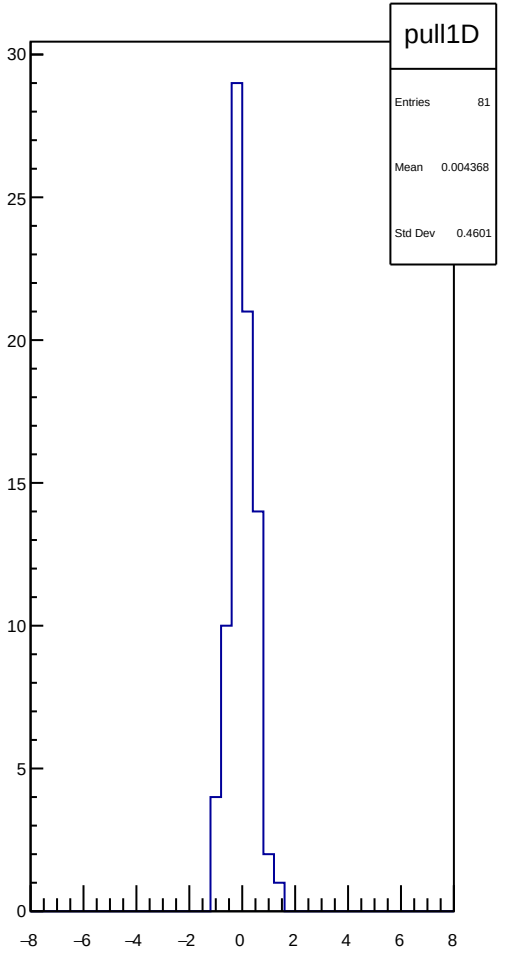

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 3.558e+04 / 80
p0 192.3 ± 0.1563
340
320
300
280
260
240
220
200
180
160

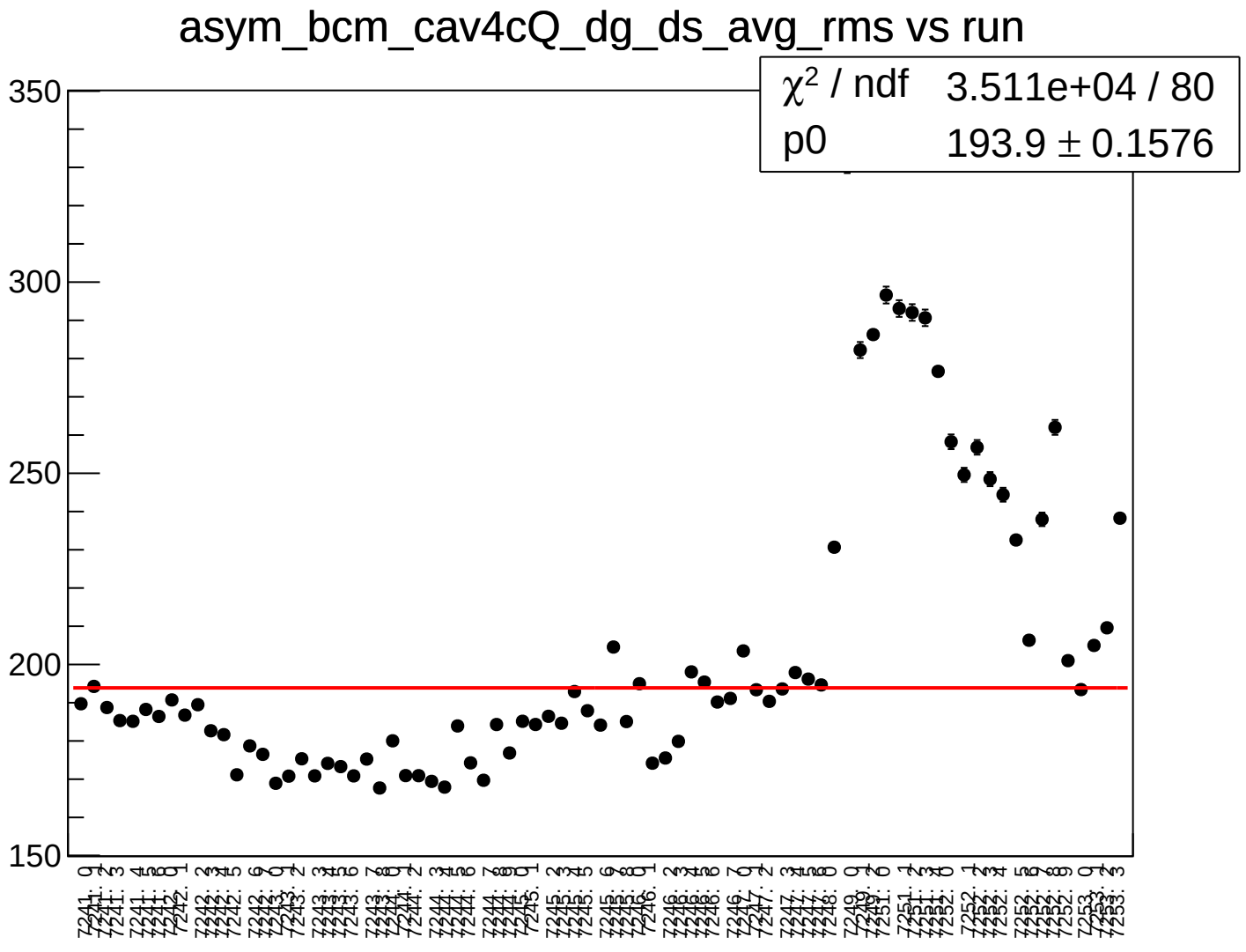

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 86.31 / 80
p0 1.243 ± 32.85
pull
Entries 81
Mean 199.6
Std Dev 0

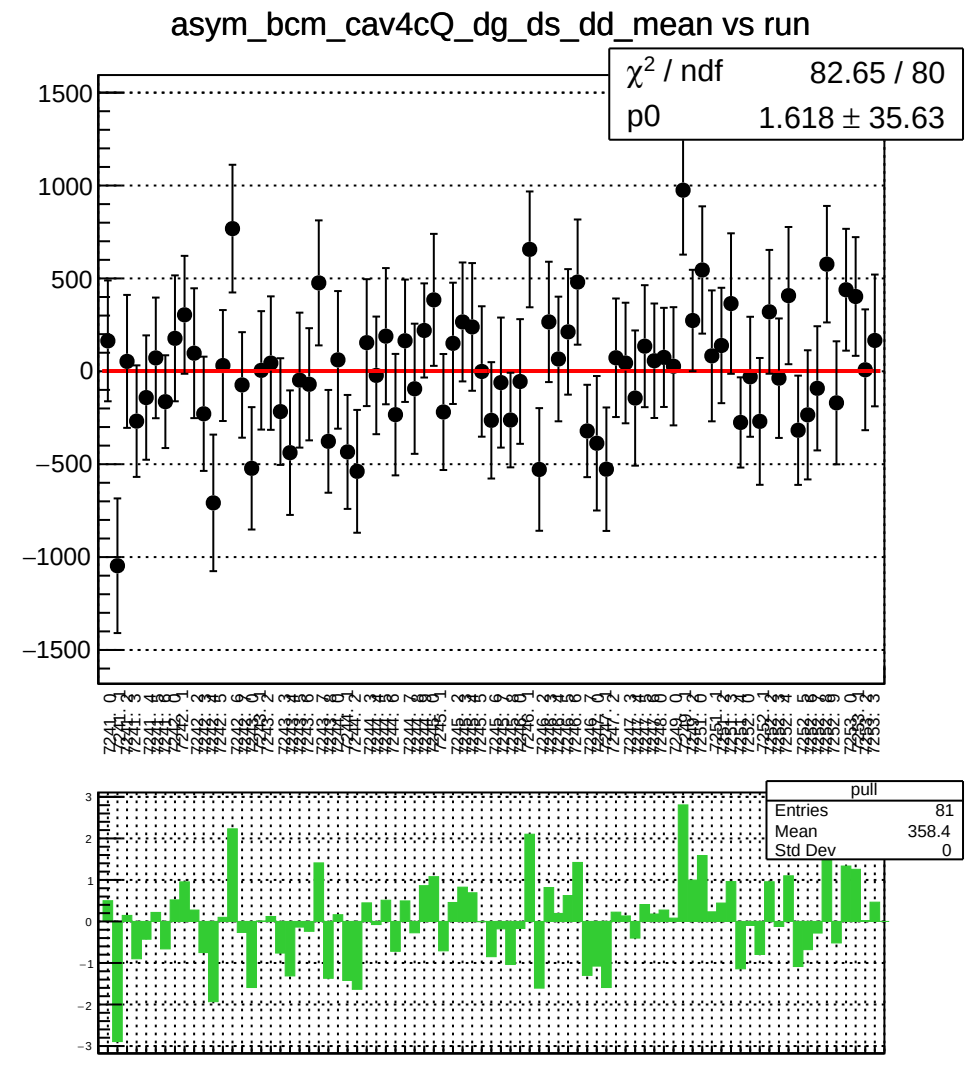

pull1D
Entries 81
Mean 0.02881
Std Dev 1.032

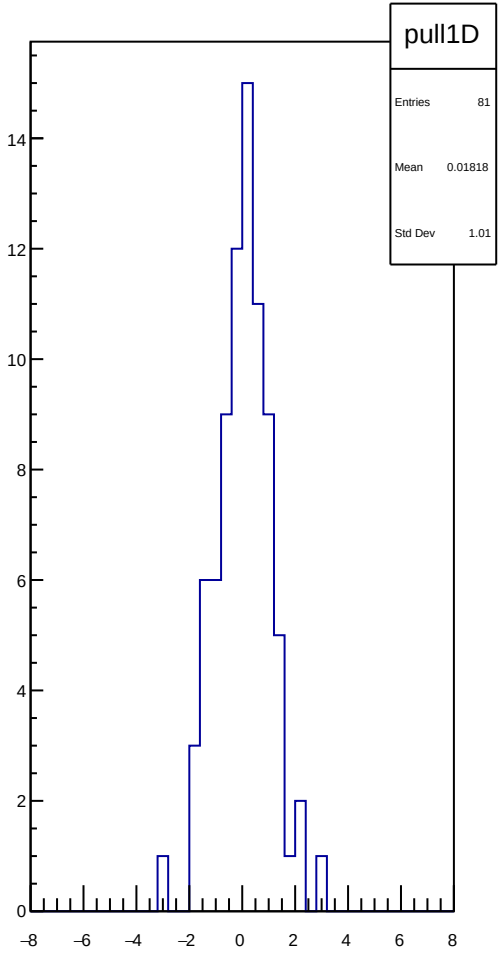

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 7236 / 80
p0 28.84 ± 0.02323
34
32
30
28
26

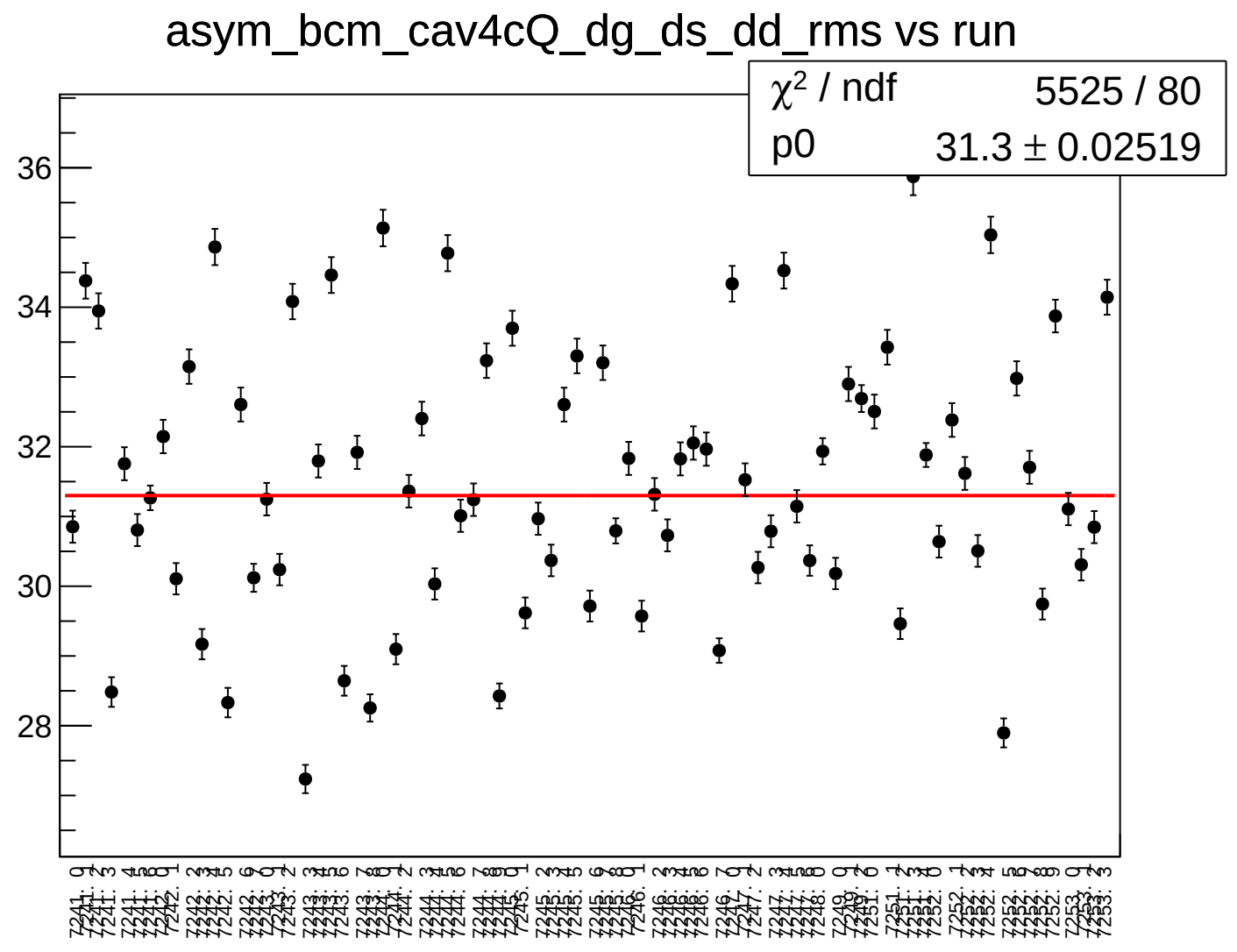

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 17.15 / 80
p0 148.5 ± 222.8
pull
Entries 81
Mean 29.19
Std Dev 0

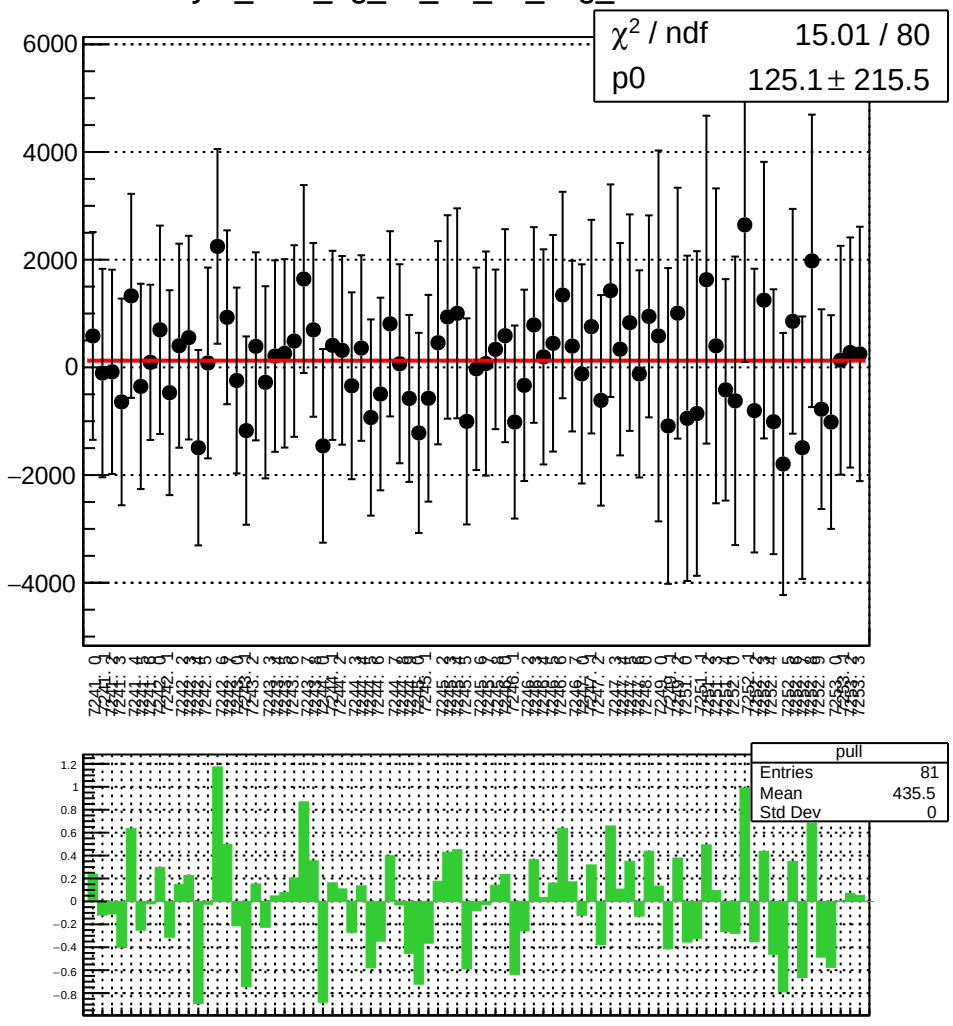

pull1D
Entries 81
Mean 0.004368
Std Dev 0.4601

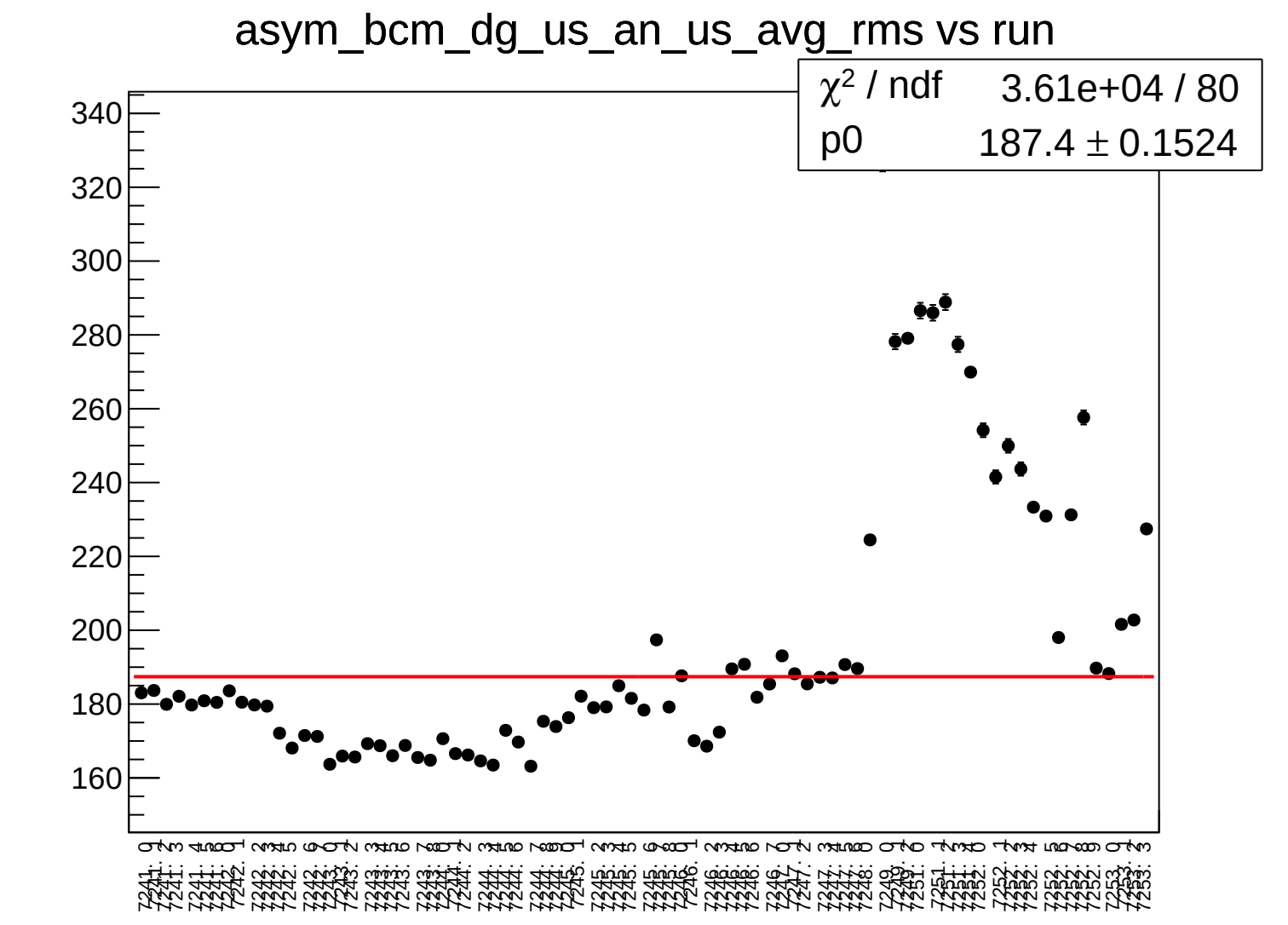

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 3.511e+04 / 80
p0 193.9 ± 0.1576
350
300
250
200
150

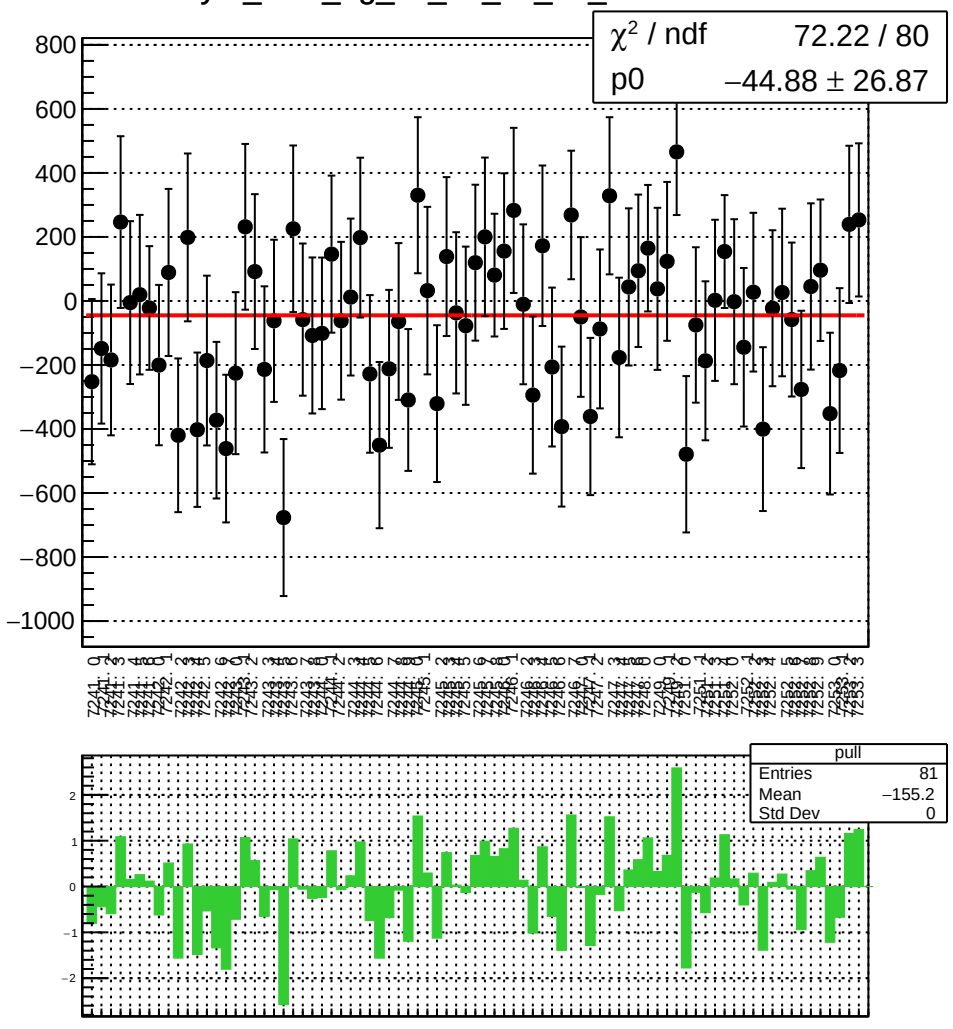

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 82.65 / 80
p0 1.618 ± 35.63
pull
Entries 81
Mean 358.4
Std Dev 0

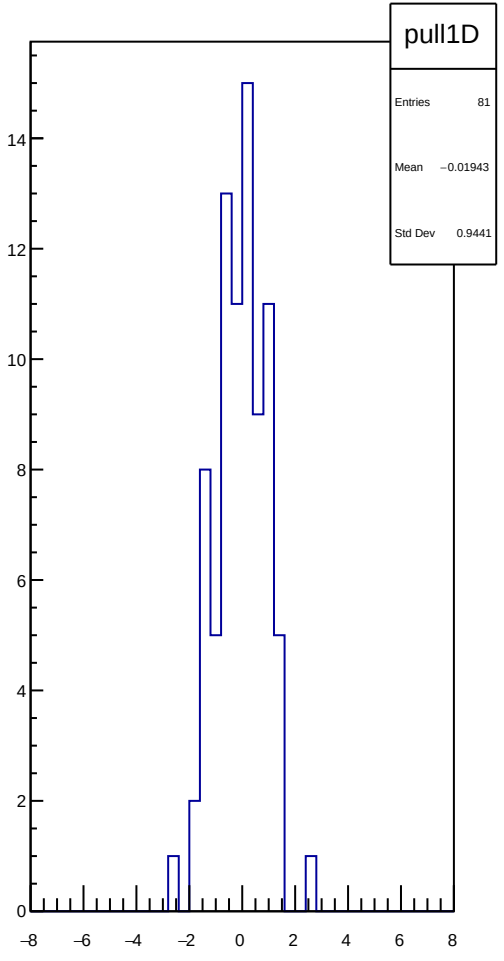

pull1D
Entries 81
Mean 0.01818
Std Dev 1.01

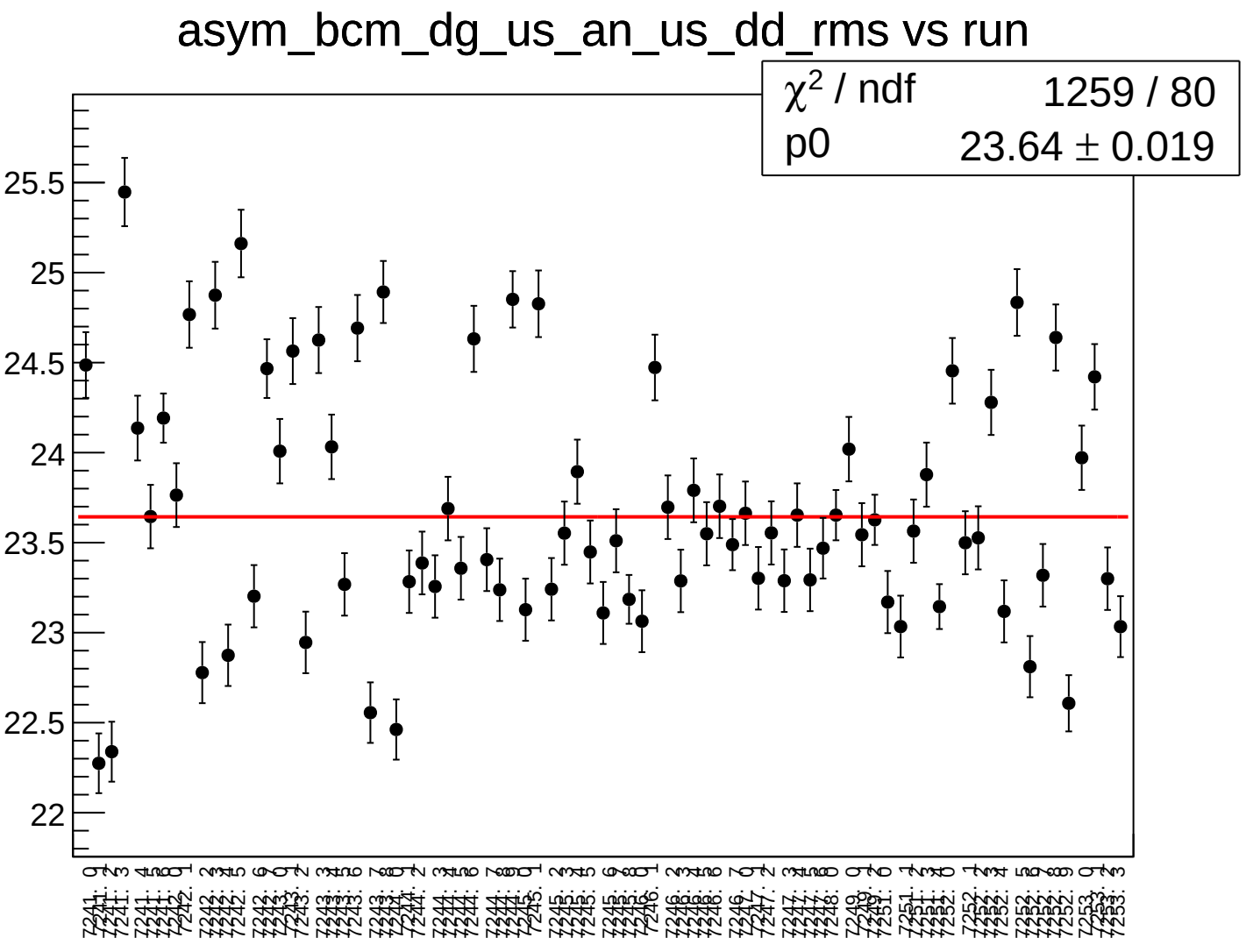

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 5525 / 80
p0 31.3 ± 0.02519
36
34
32
30
28

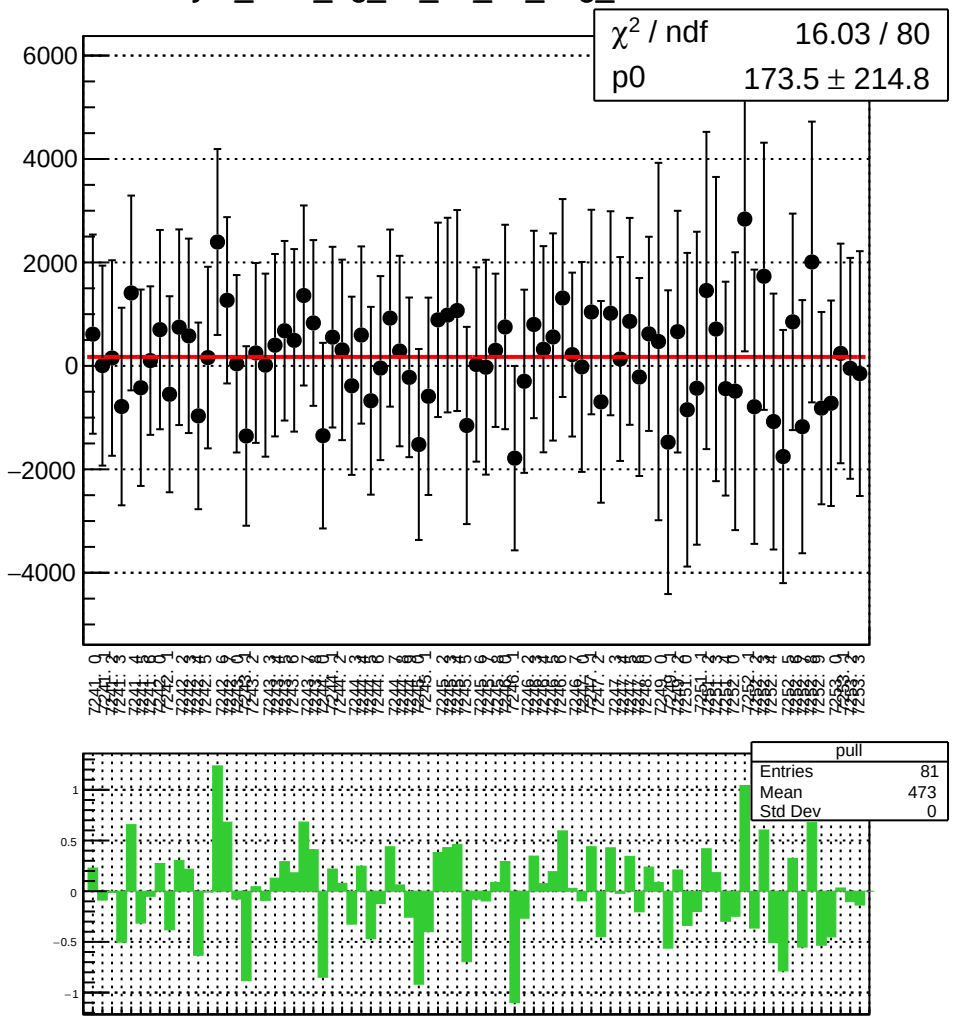

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 15.01 / 80
p0 125.1 ± 215.5
pull
Entries 81
Mean 435.5
Std Dev 0
pull1D
Entries 81
Mean −0.0006701
Std Dev 0.4305

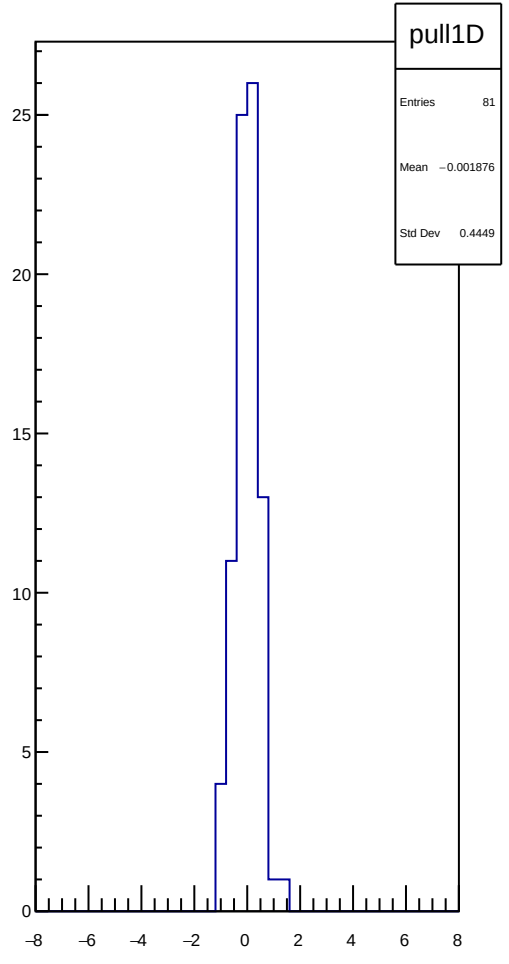

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 3.61e+04 / 80
p0 187.4 ± 0.1524
340
320
300
280
260
240
220
200
180
160

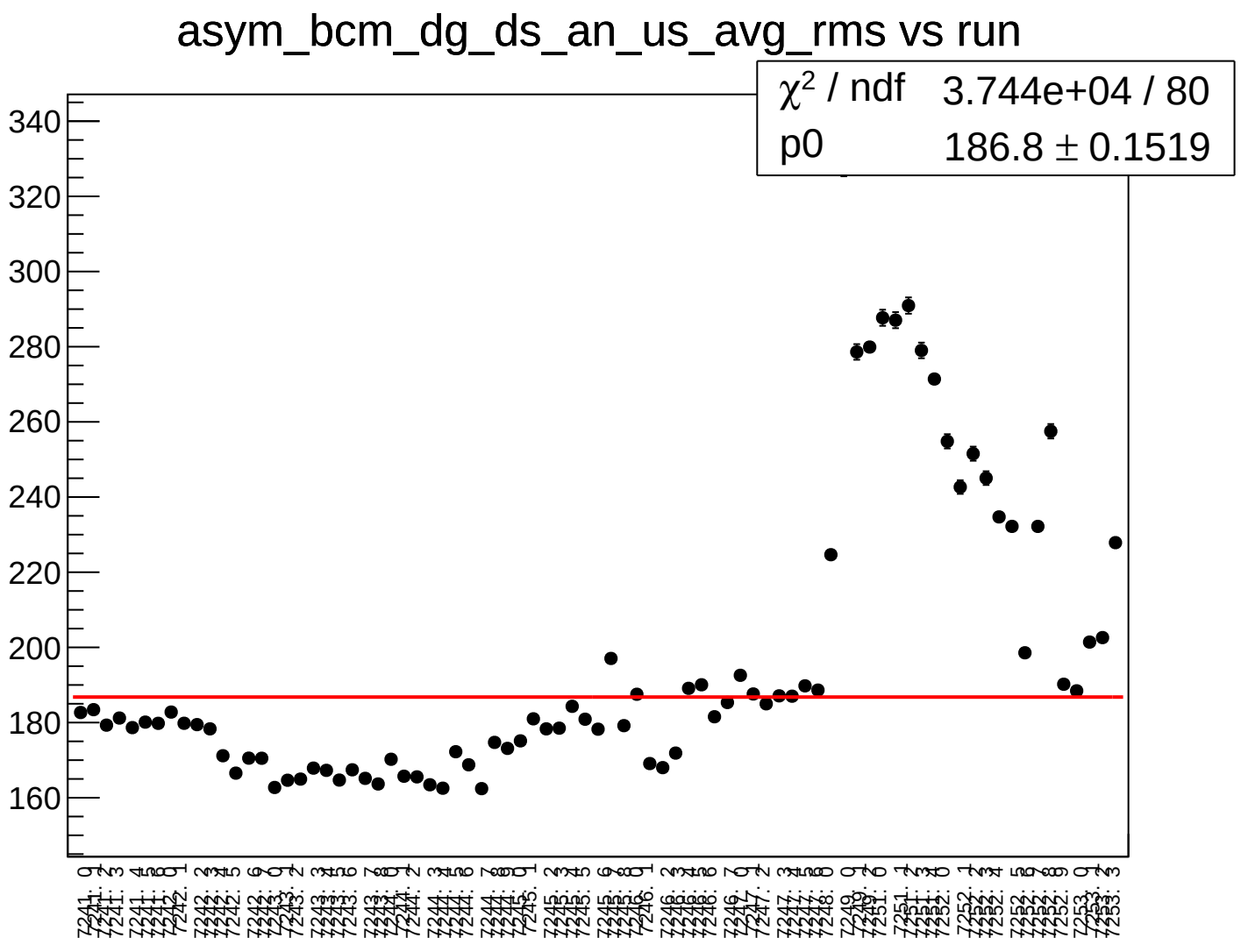

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 72.22 / 80
p0 −44.88 ± 26.87
pull
Entries 81
Mean −155.2
Std Dev 0

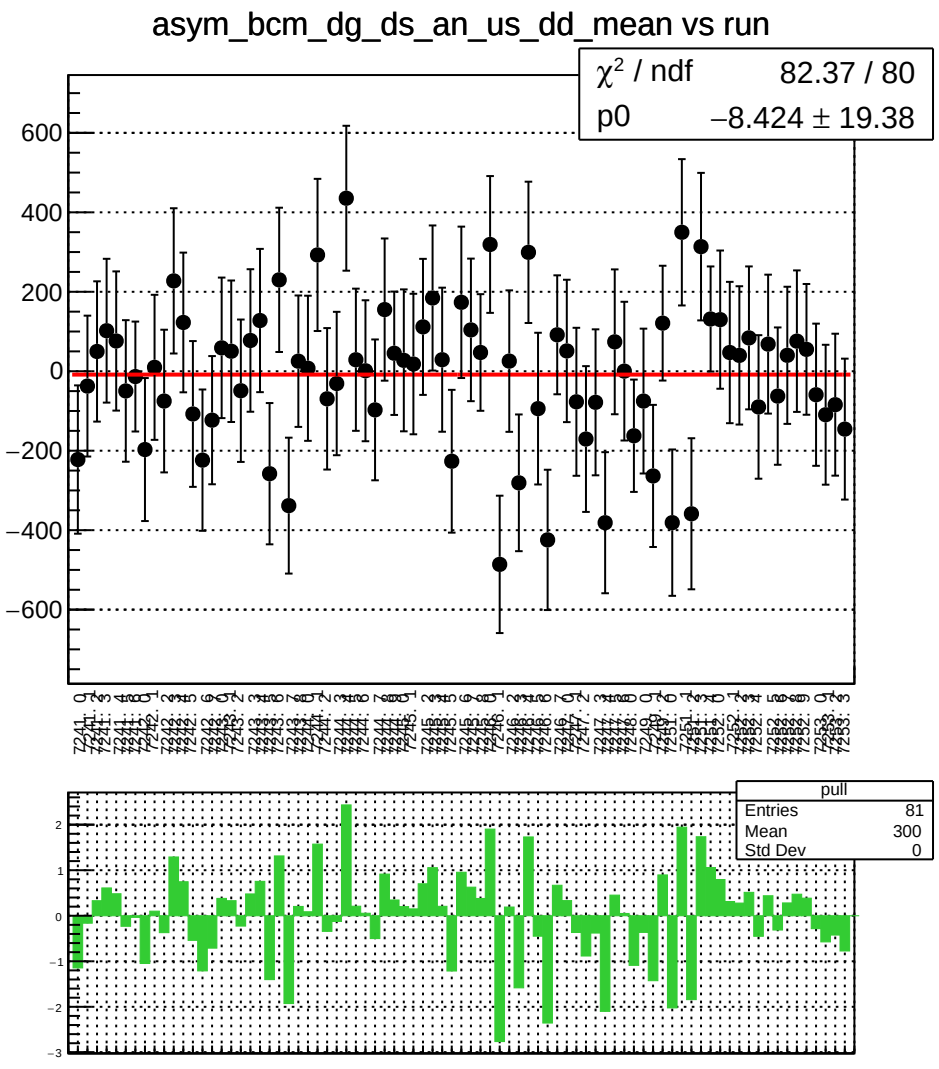

pull1D
Entries 81
Mean −0.01943
Std Dev 0.9441

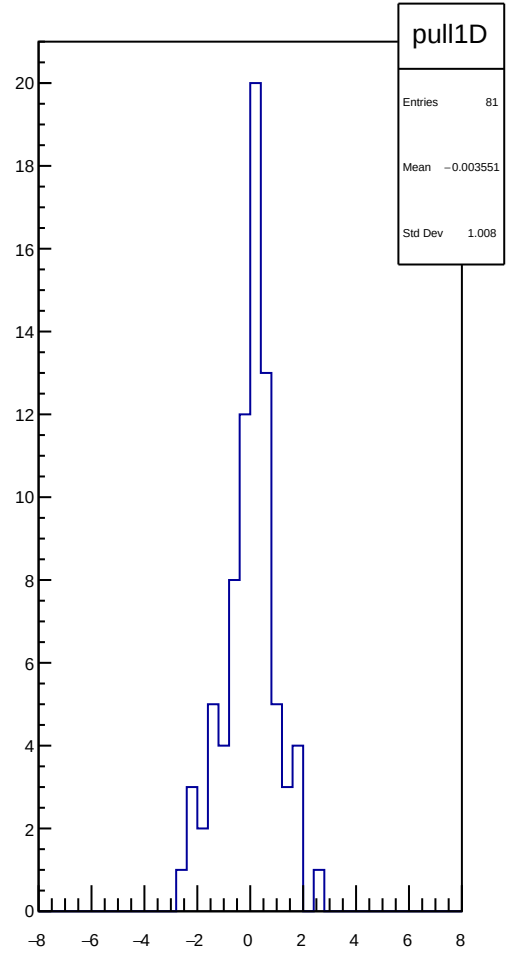

asym_bcm_dg_us_an_us_dd_rms vs run
χ² / ndf 1259 / 80
p0 23.64 ± 0.019
25.5
25
24.5
24
23.5
23
22.5
22

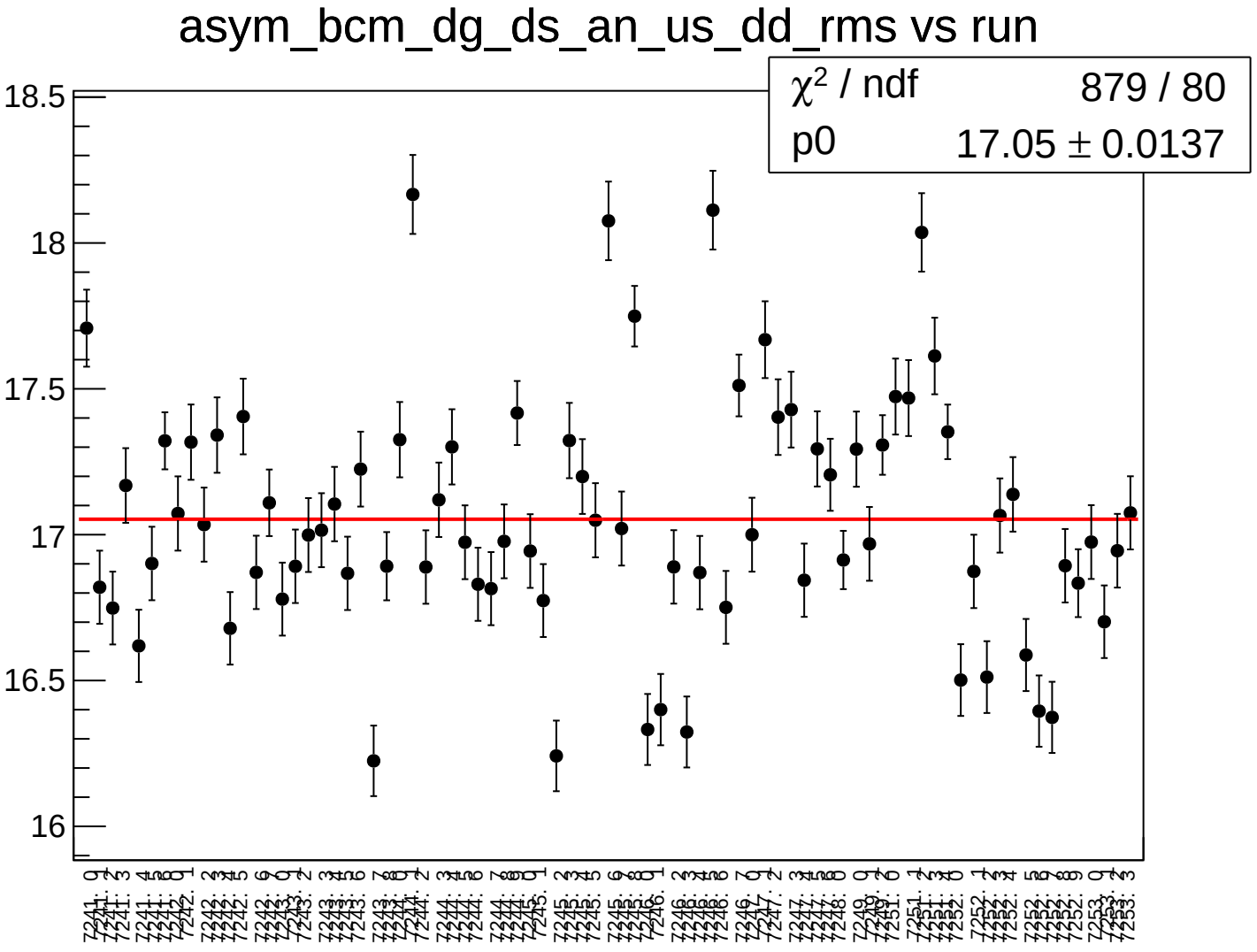

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 16.03 / 80
p0 173.5 ± 214.8
6000
4000
2000
0
−2000
−4000
pull
Entries 81
Mean 473
Std Dev 0
1
0.5
0
−0.5
−1

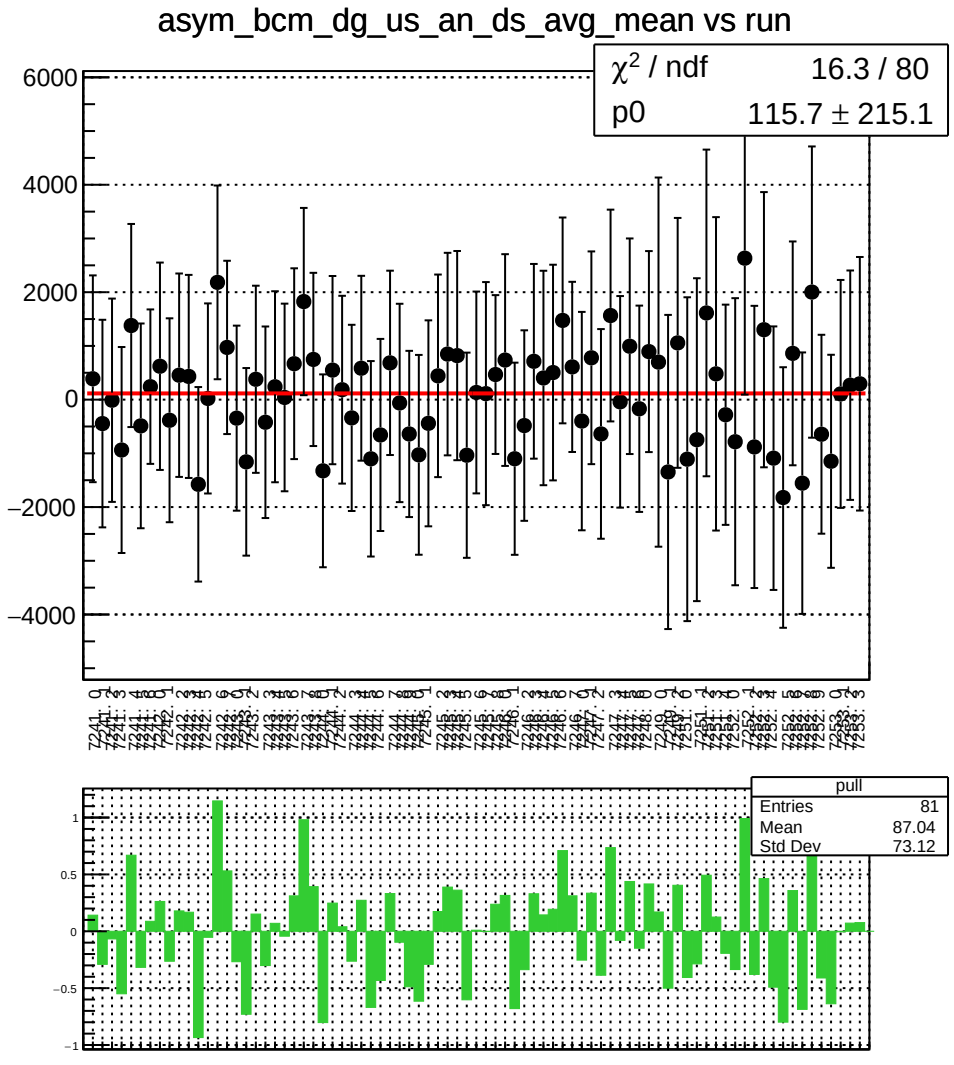

pull1D
Entries 81
Mean −0.001876
Std Dev 0.4449
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

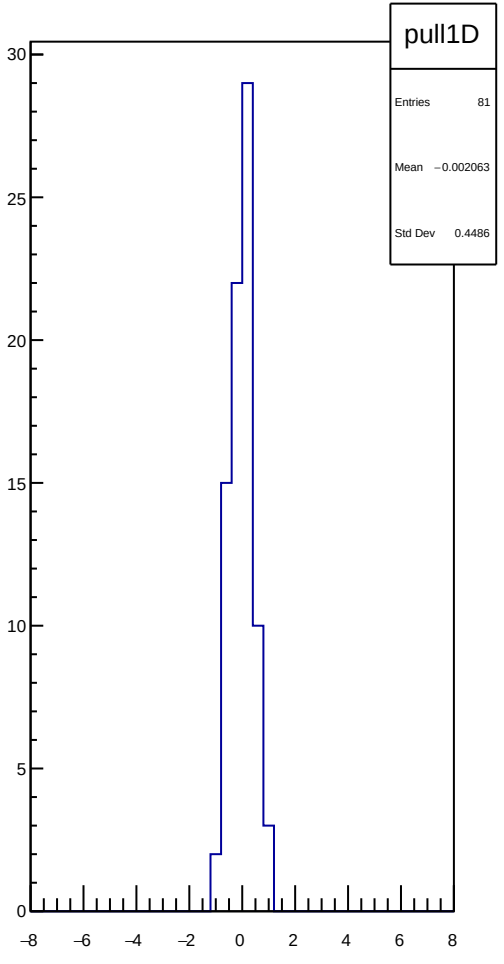

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 3.744e+04 / 80
p0 186.8 ± 0.1519
340
320
300
280
260
240
220
200
180
160

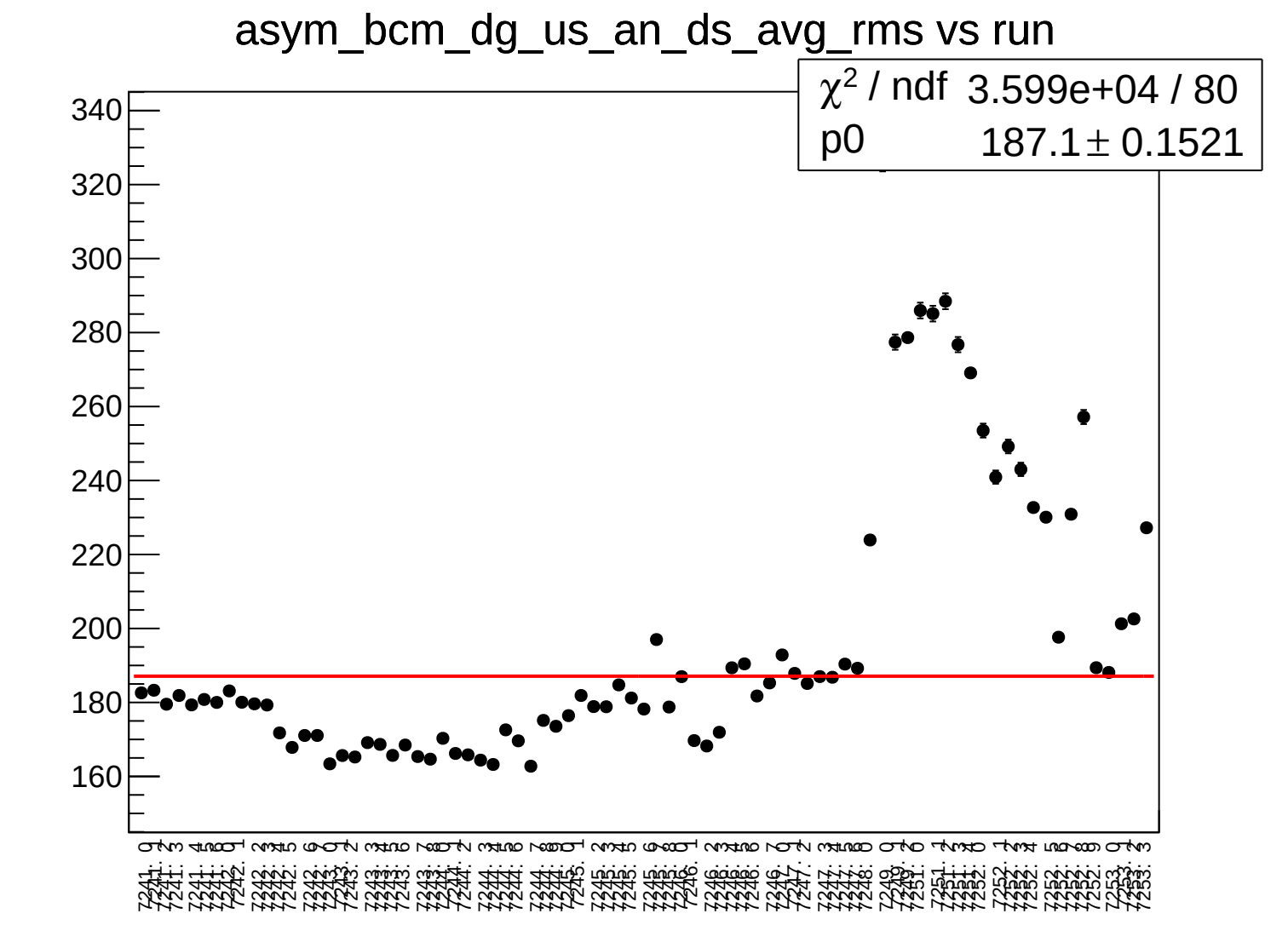

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 82.37 / 80
p0 −8.424 ± 19.38
pull
Entries 81
Mean 300
Std Dev 0

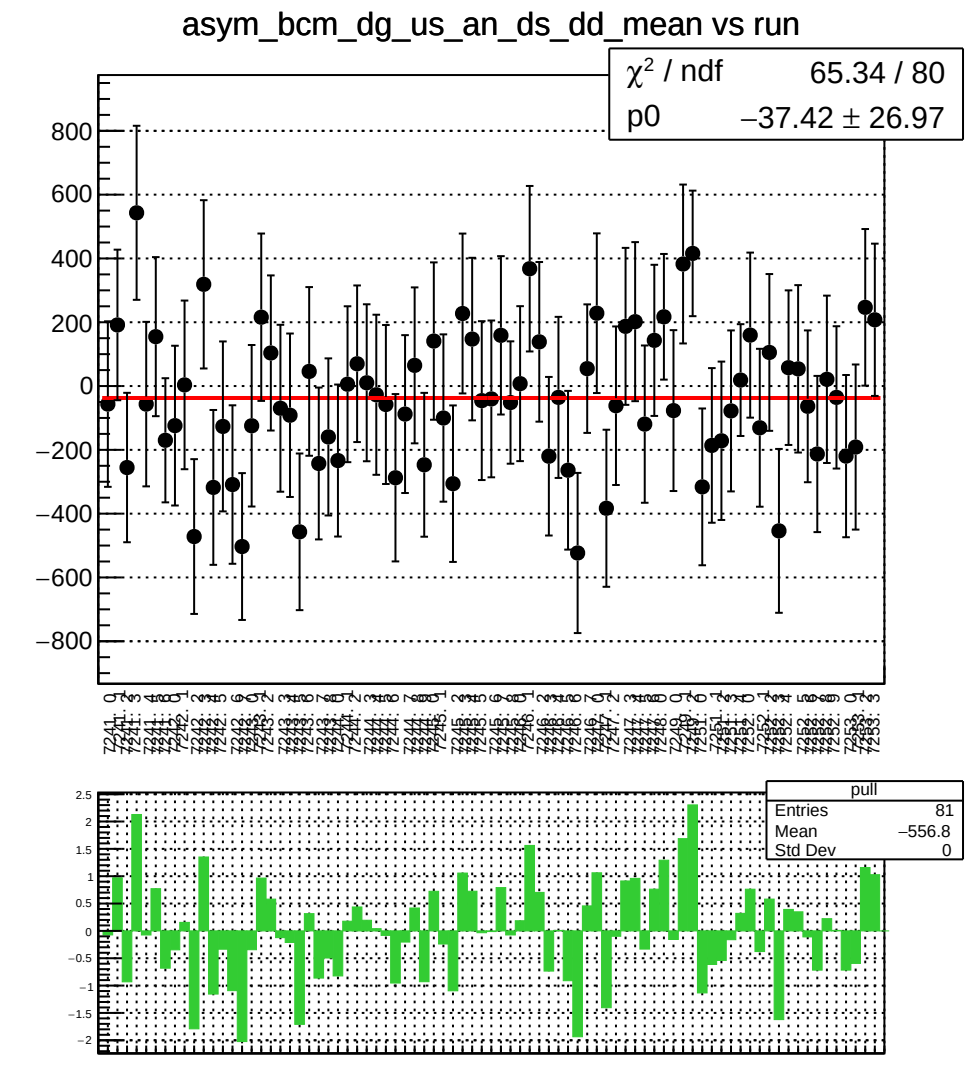

pull1D
Entries 81
Mean −0.003551
Std Dev 1.008

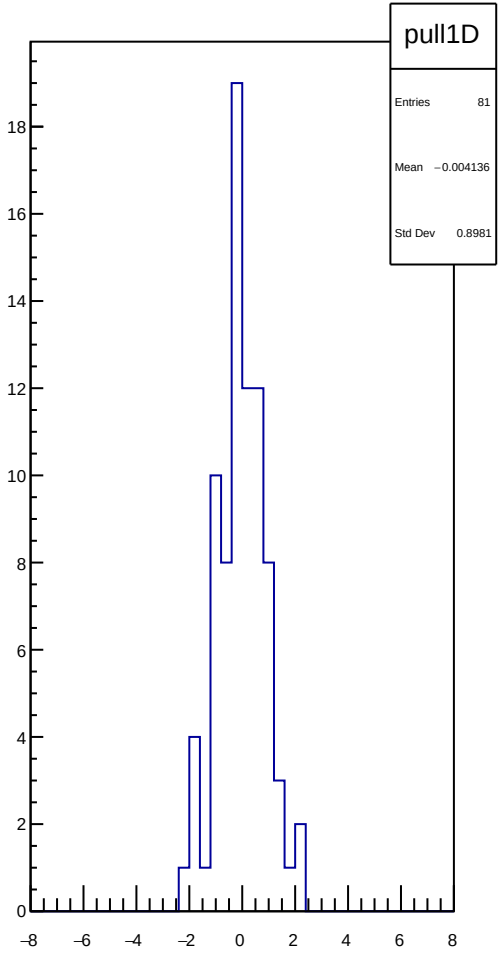

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 879 / 80
p0 17.05 ± 0.0137
18.5
18
17.5
17
16.5
16

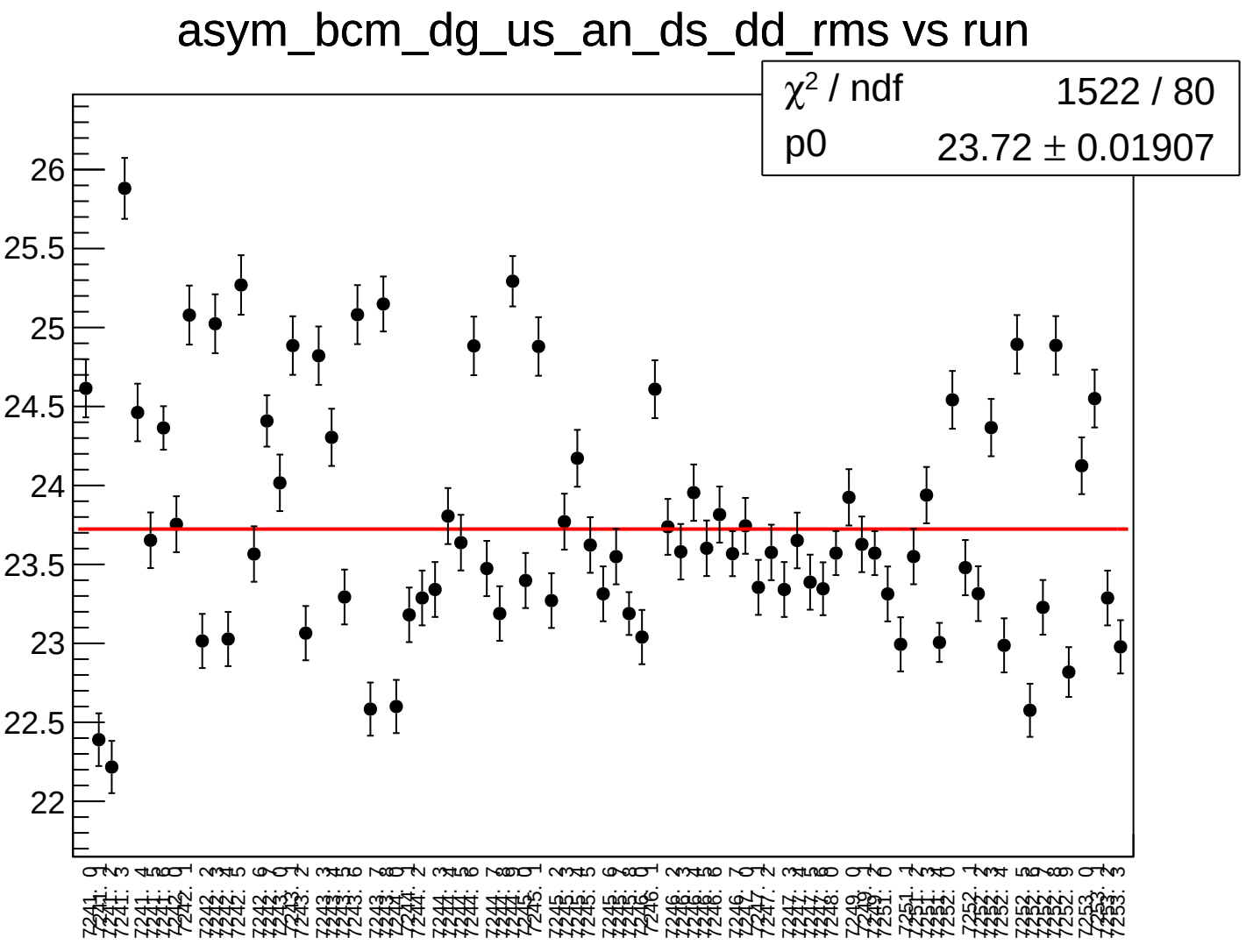

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 16.3 / 80
p0 115.7 ± 215.1
pull
Entries 81
Mean 87.04
Std Dev 73.12

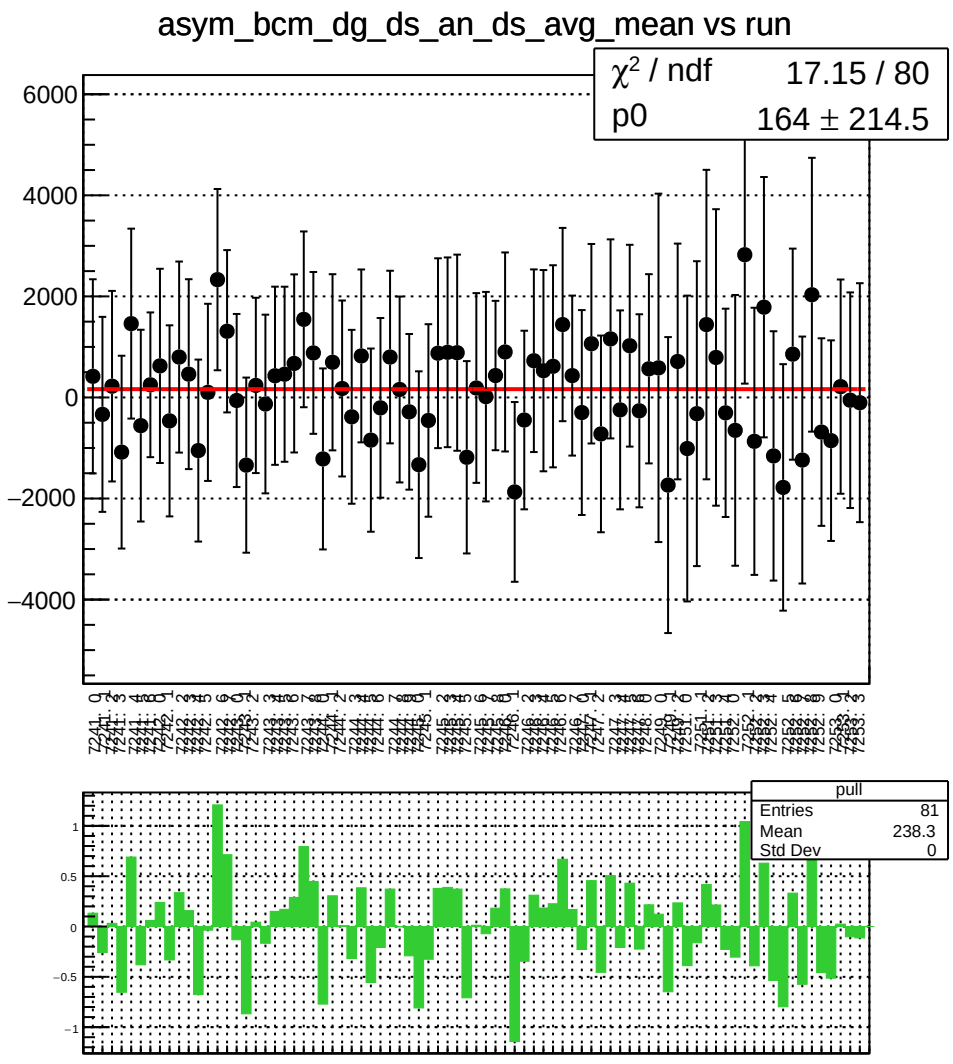

pull1D
Entries 81
Mean −0.002063
Std Dev 0.4486

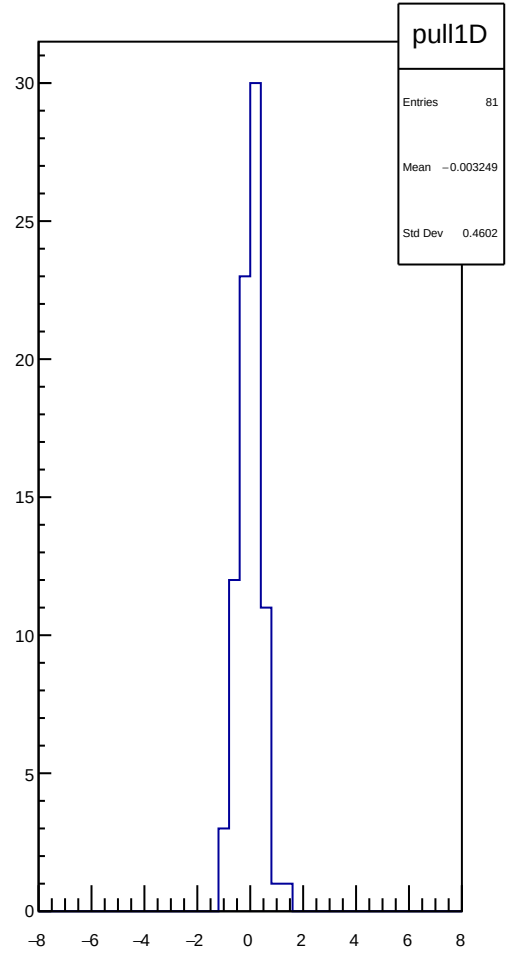

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 3.599e+04 / 80
p0 187.1 ± 0.1521
340
320
300
280
260
240
220
200
180
160

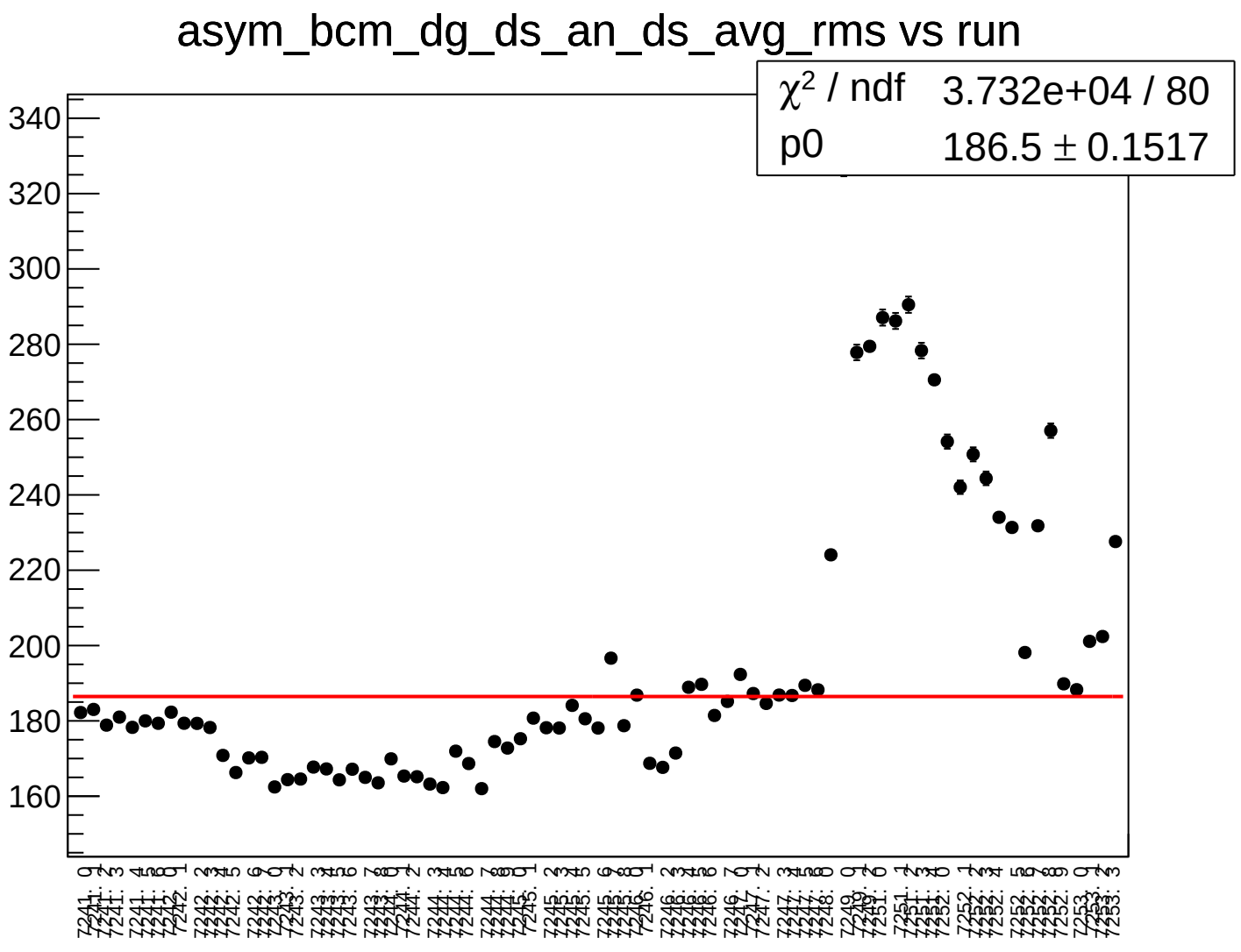

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 65.34 / 80
p0 −37.42 ± 26.97
pull
Entries 81
Mean −556.8
Std Dev 0

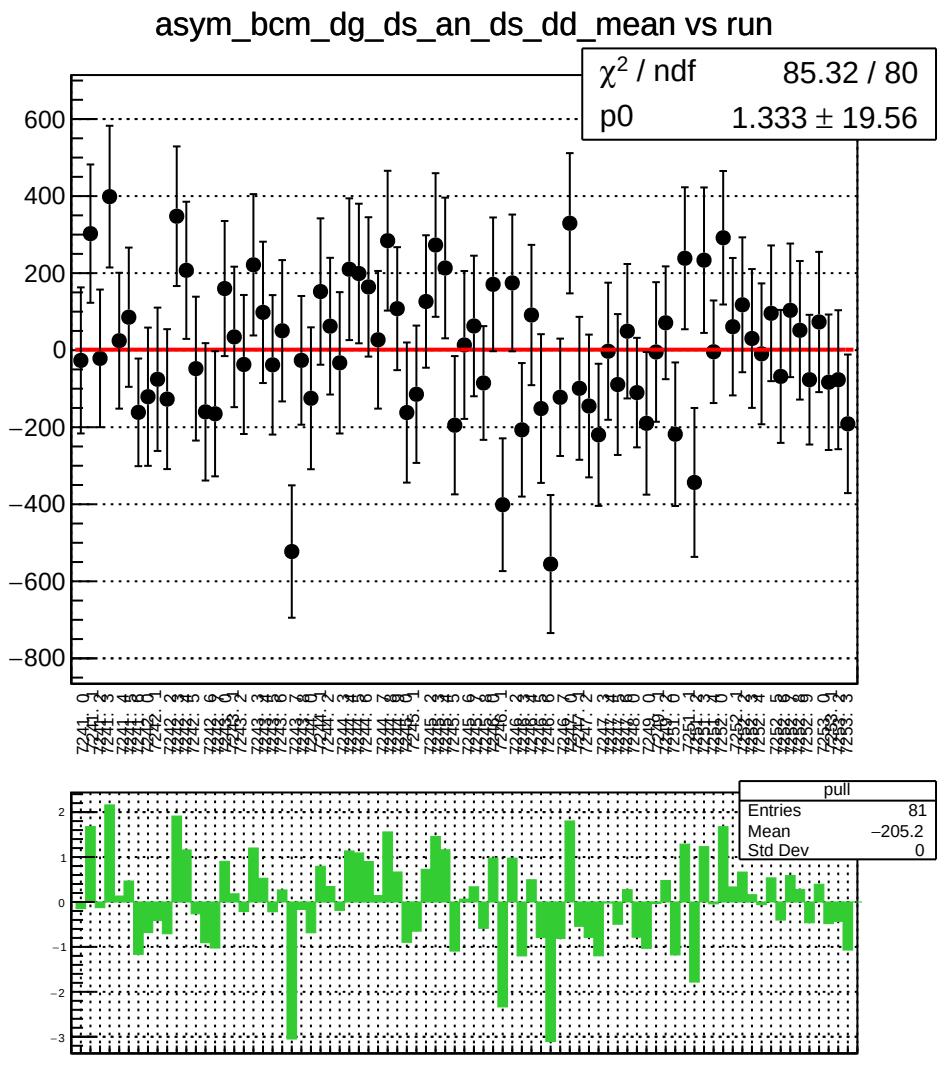

pull1D
Entries 81
Mean −0.004136
Std Dev 0.8981

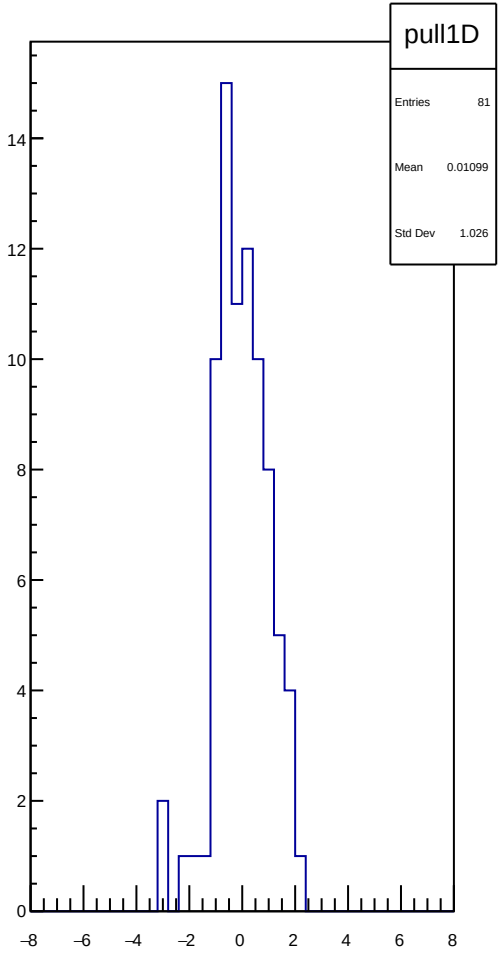

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 1522 / 80
p0 23.72 ± 0.01907
26
25.5
25
24.5
24
23.5
23
22.5
22

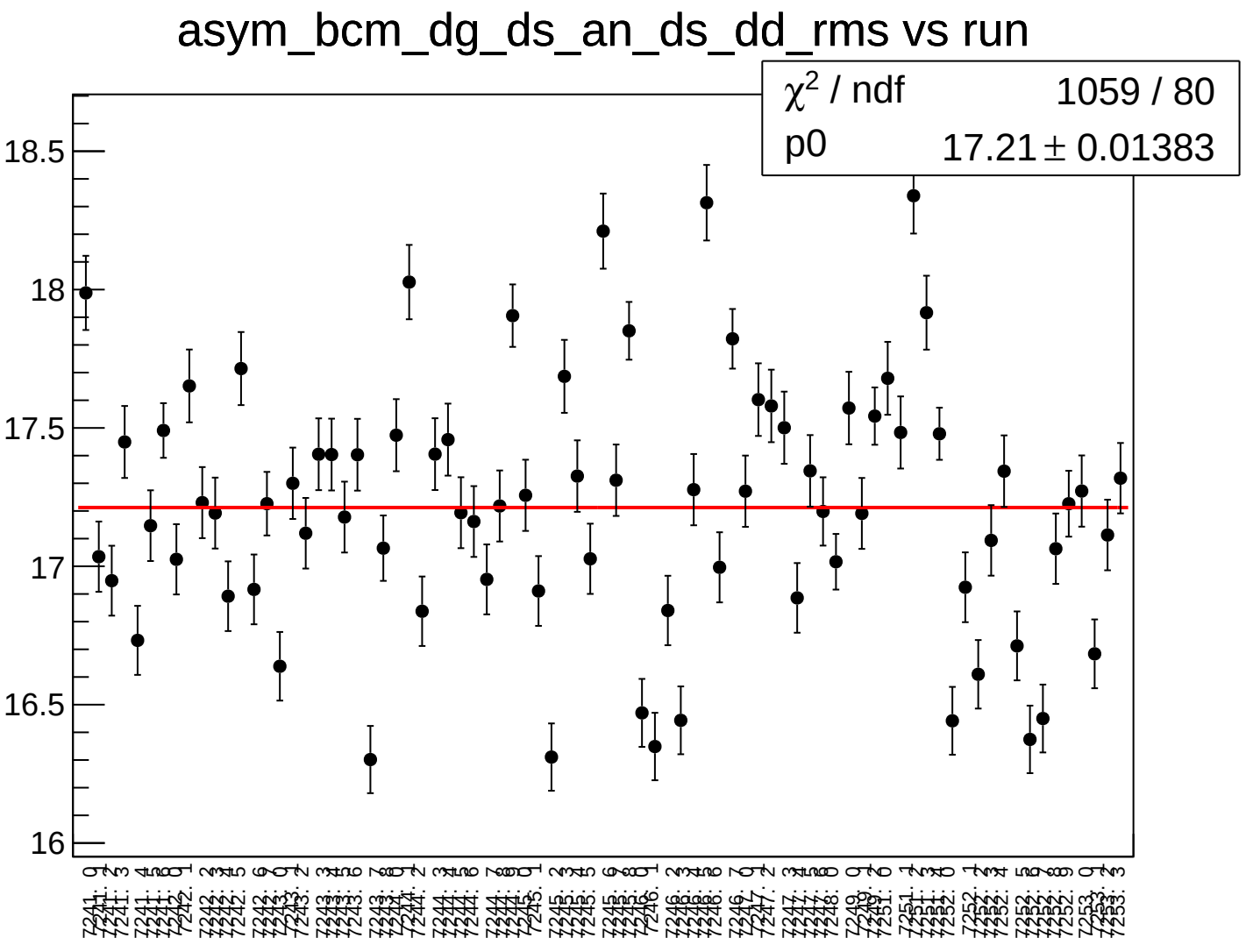

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 17.15 / 80
p0 164 ± 214.5
6000
4000
2000
0
−2000
−4000
pull
Entries 81
Mean 238.3
Std Dev 0
1
0.5
0
−0.5
−1

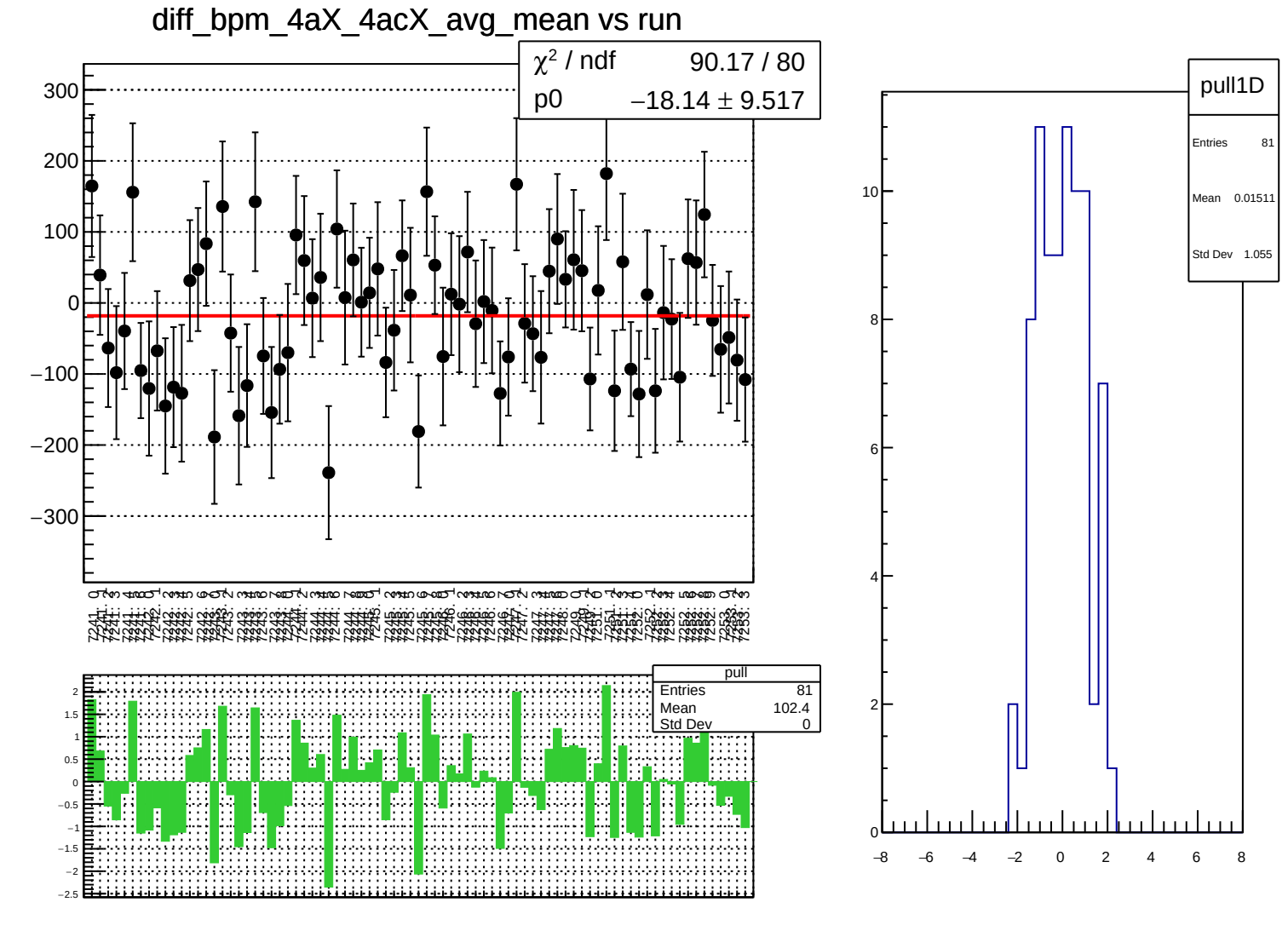

pull1D
Entries 81
Mean −0.003249
Std Dev 0.4602
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

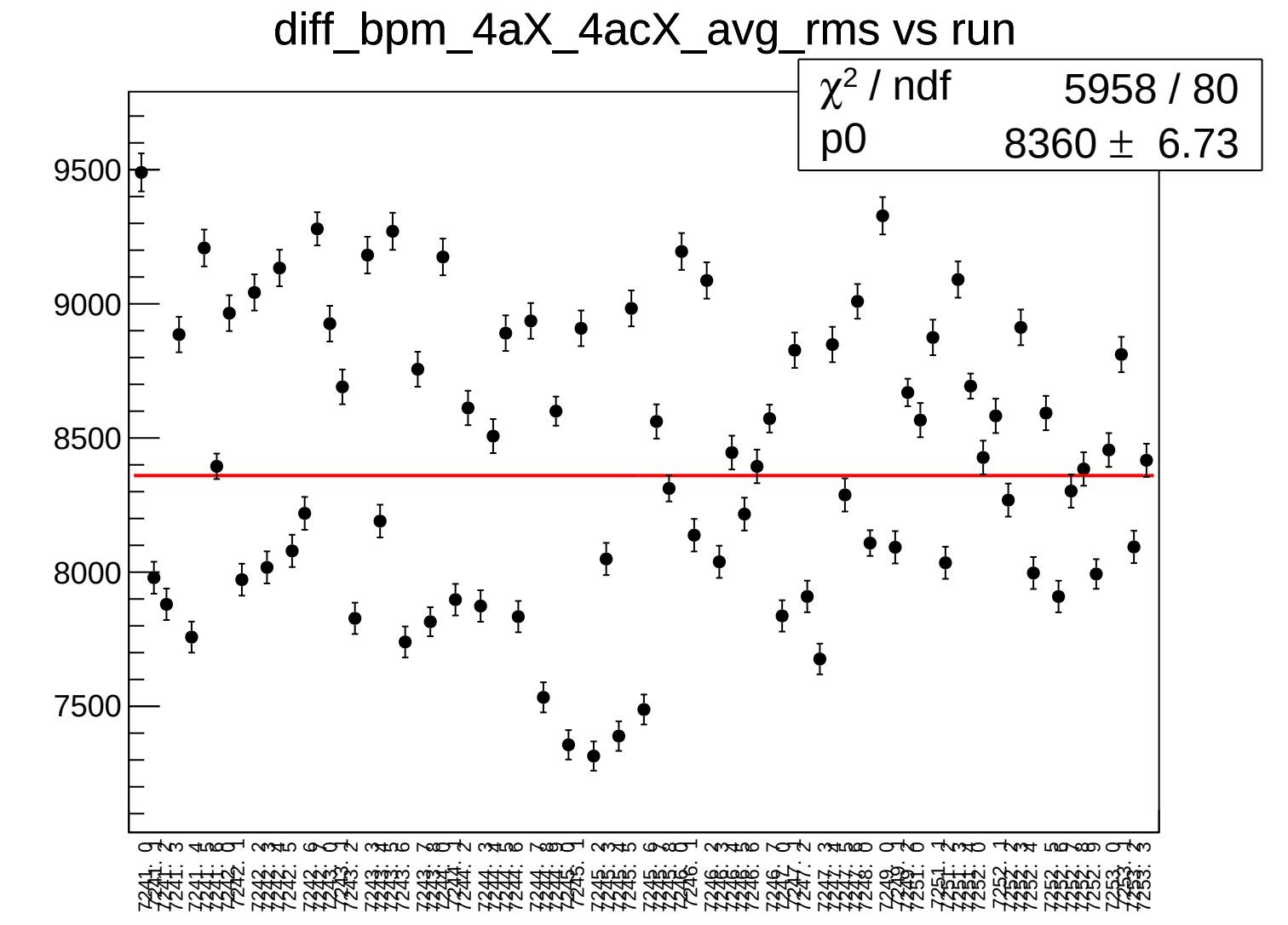

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 3.732e+04 / 80
p0 186.5 ± 0.1517
340
320
300
280
260
240
220
200
180
160

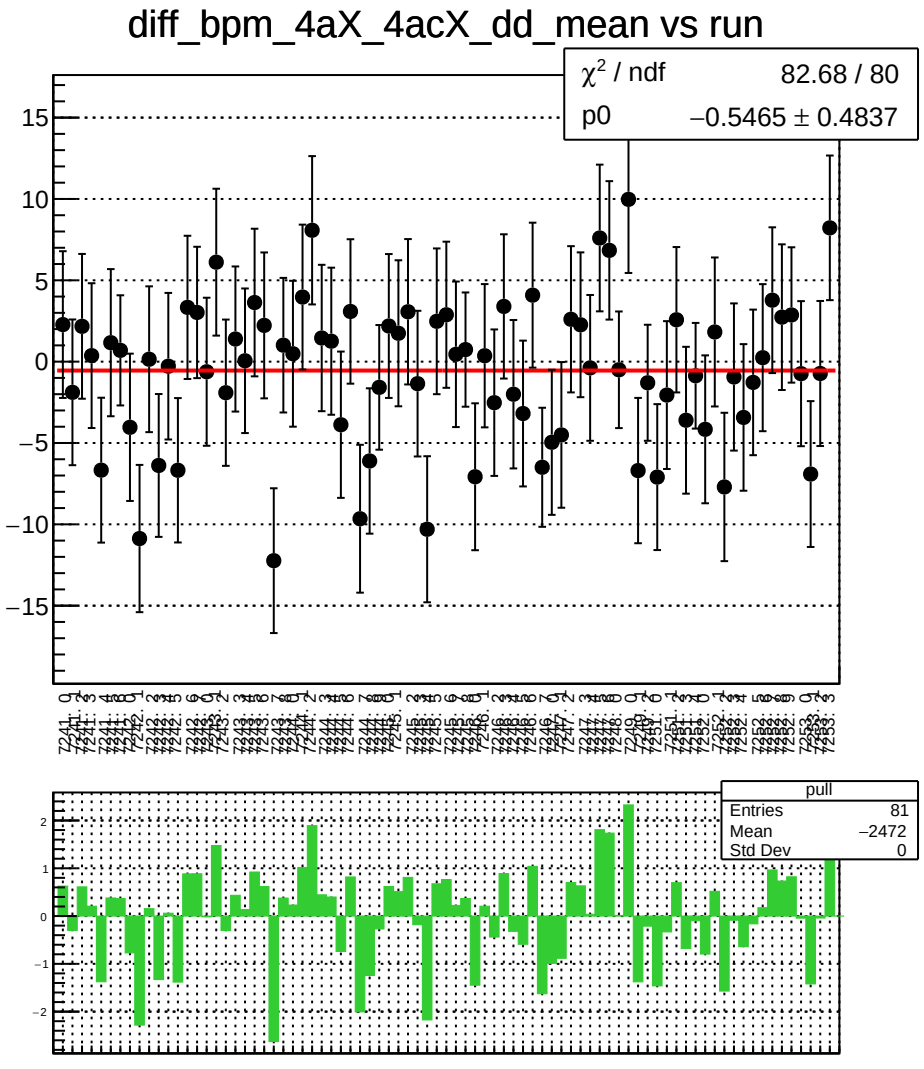

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 85.32 / 80
p0 1.333 ± 19.56
pull
Entries 81
Mean −205.2
Std Dev 0

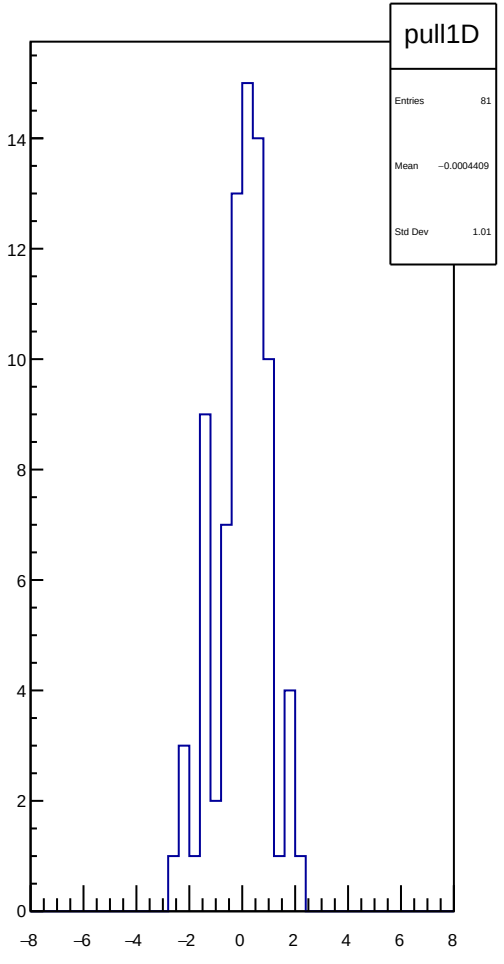

pull1D
Entries 81
Mean 0.01099
Std Dev 1.026

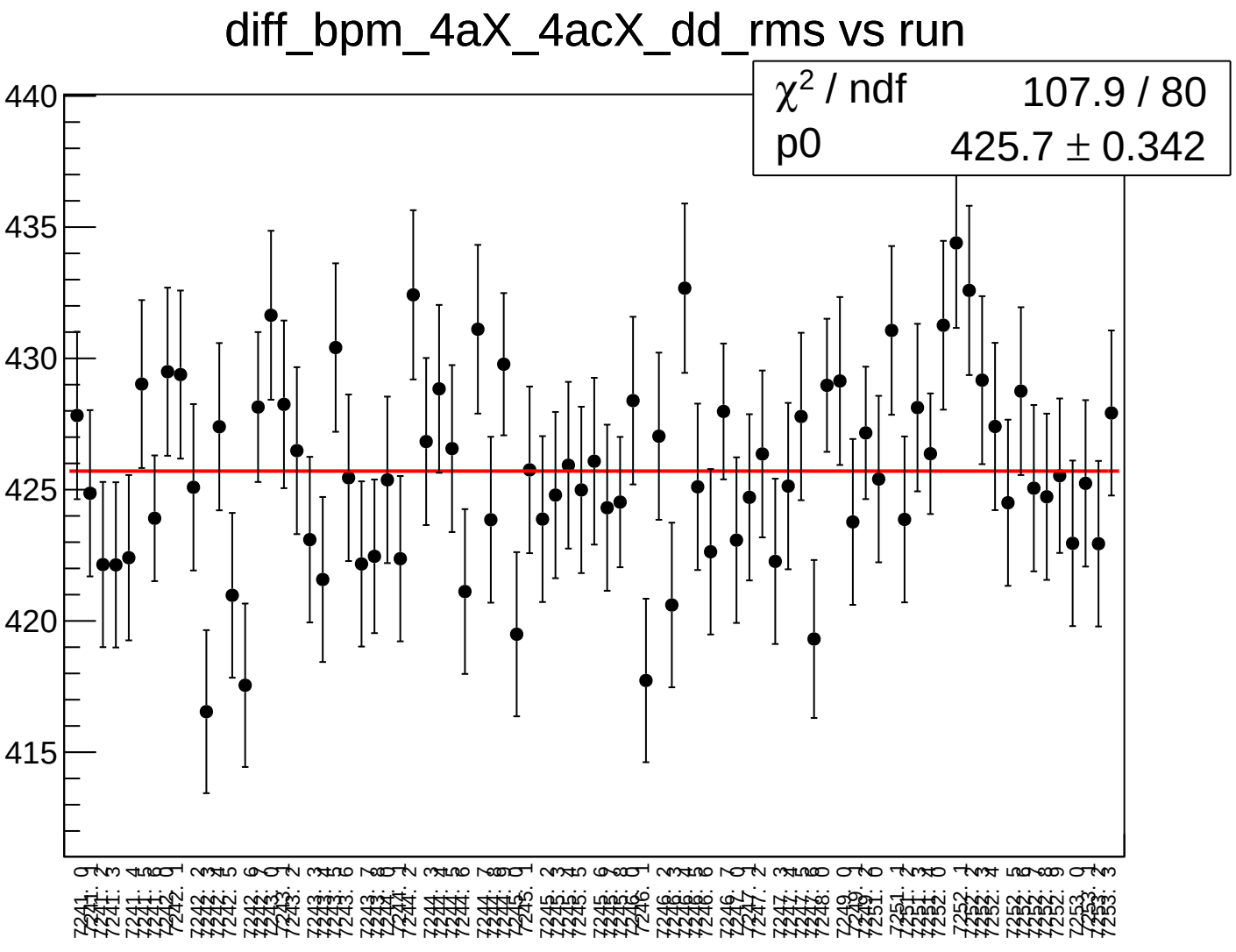

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 1059 / 80
p0 17.21 ± 0.01383
18.5
18
17.5
17
16.5
16

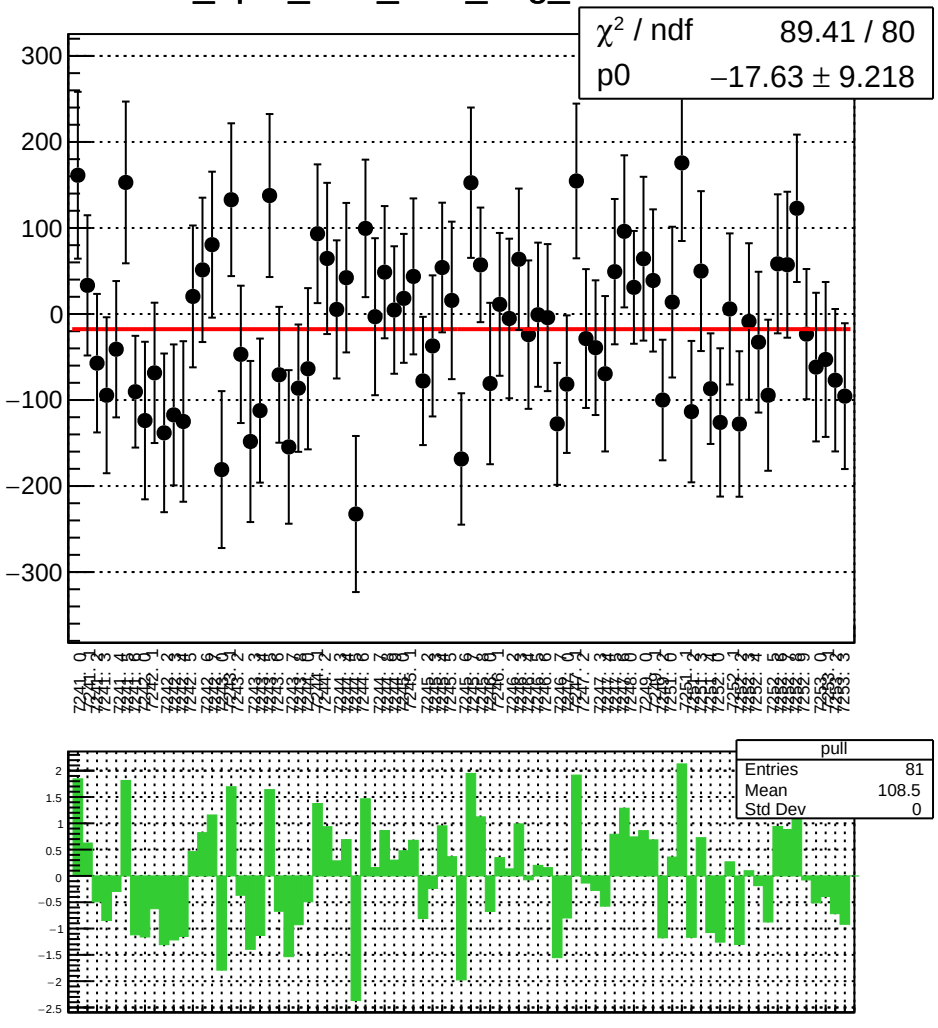

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 90.17 / 80
p0 −18.14 ± 9.517
pull
Entries 81
Mean 102.4
Std Dev 0
pull1D
Entries 81
Mean 0.01511
Std Dev 1.055

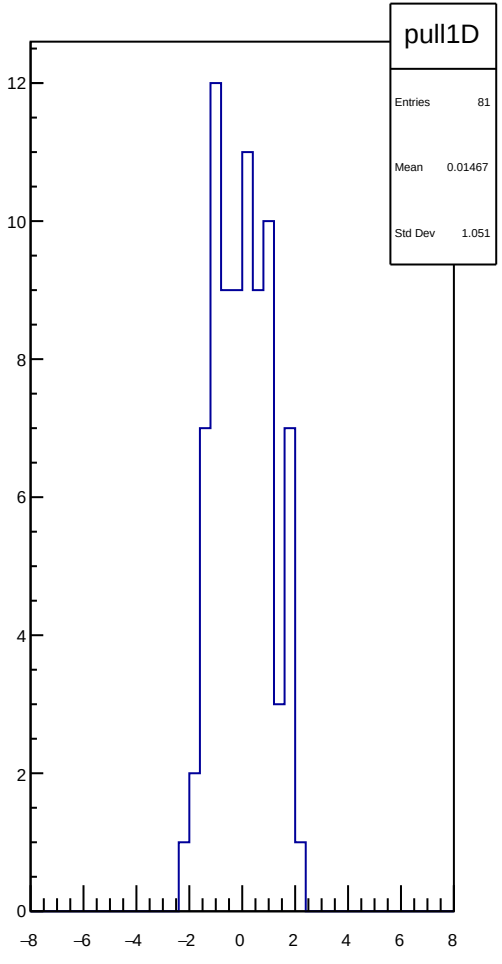

diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 5958 / 80
p0 8360 ± 6.73
9500
9000
8500
8000
7500

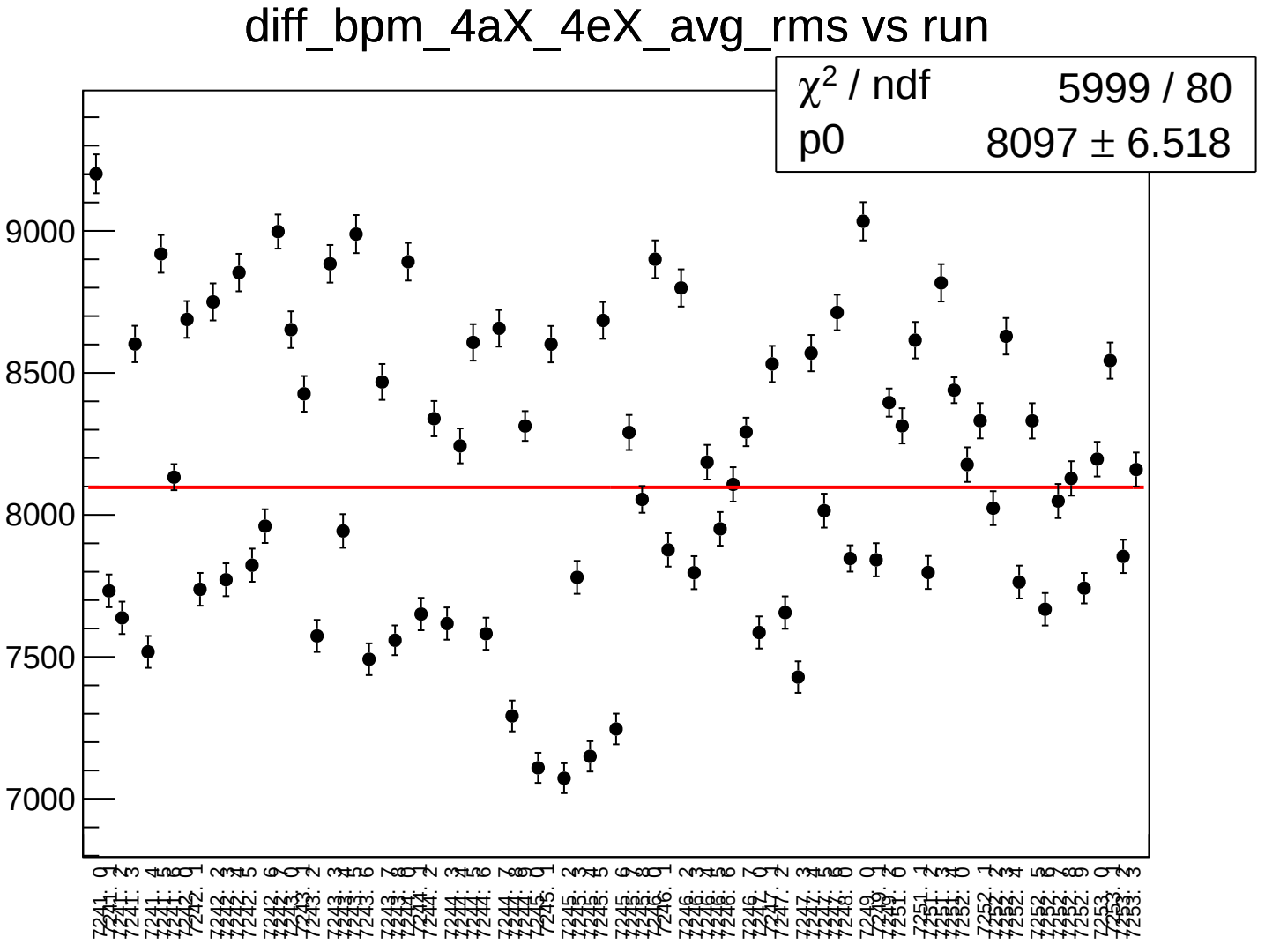

diff_bpm_4aX_4acX_dd_mean vs run
χ^2 / ndf 82.68 / 80
p0 −0.5465 ± 0.4837
pull
Entries 81
Mean −2472
Std Dev 0

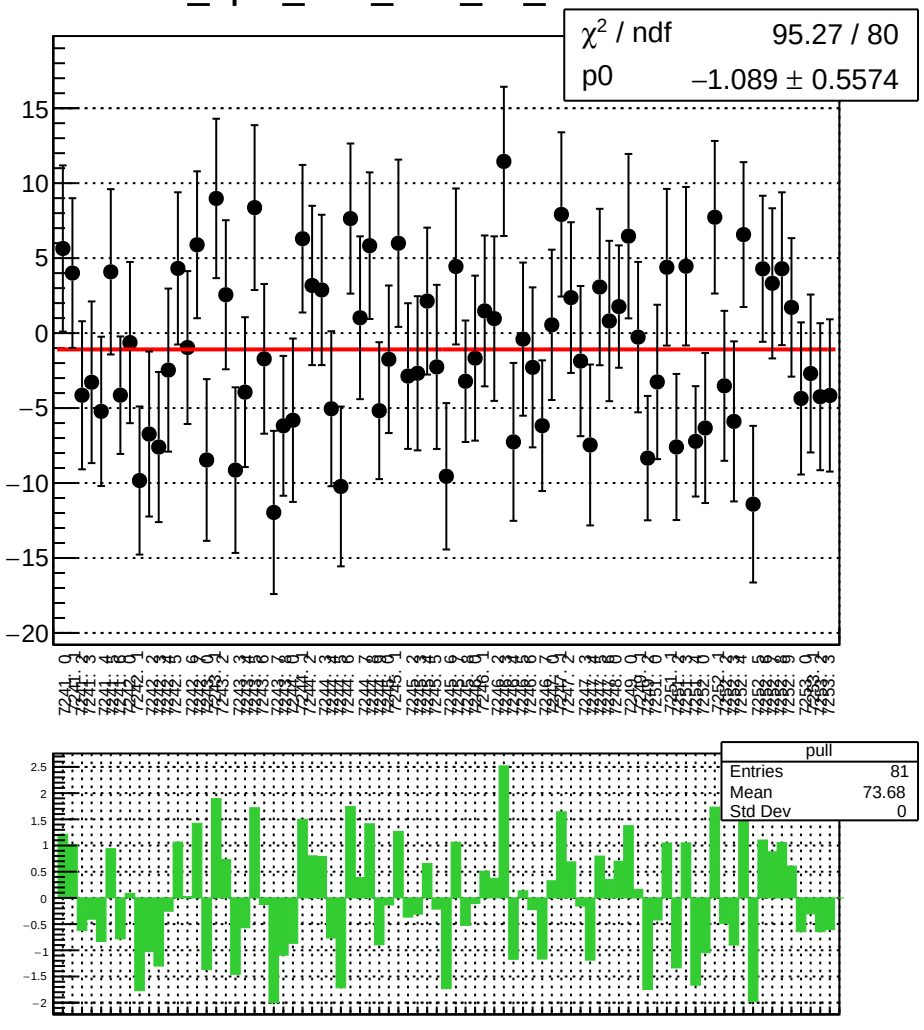

pull1D
Entries 81
Mean −0.0004409
Std Dev 1.01

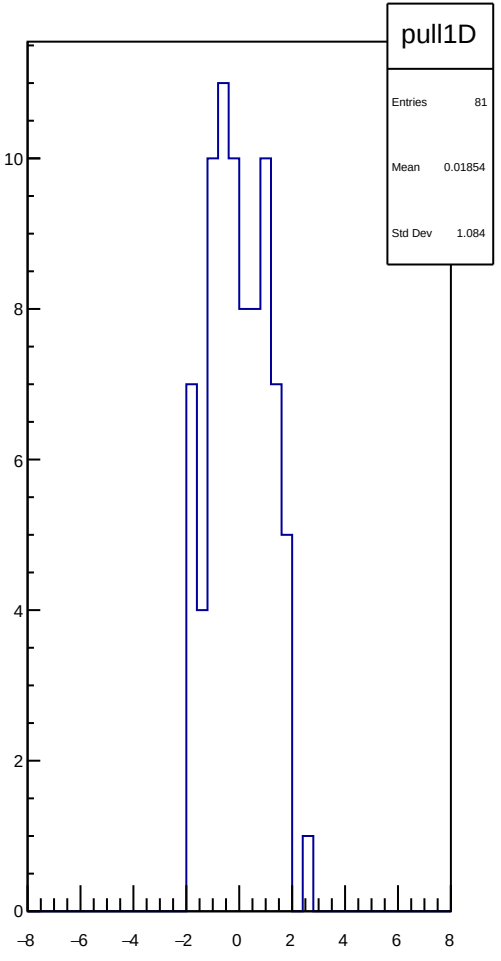

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 107.9 / 80
p0 425.7 ± 0.342
440
435
430
425
420
415

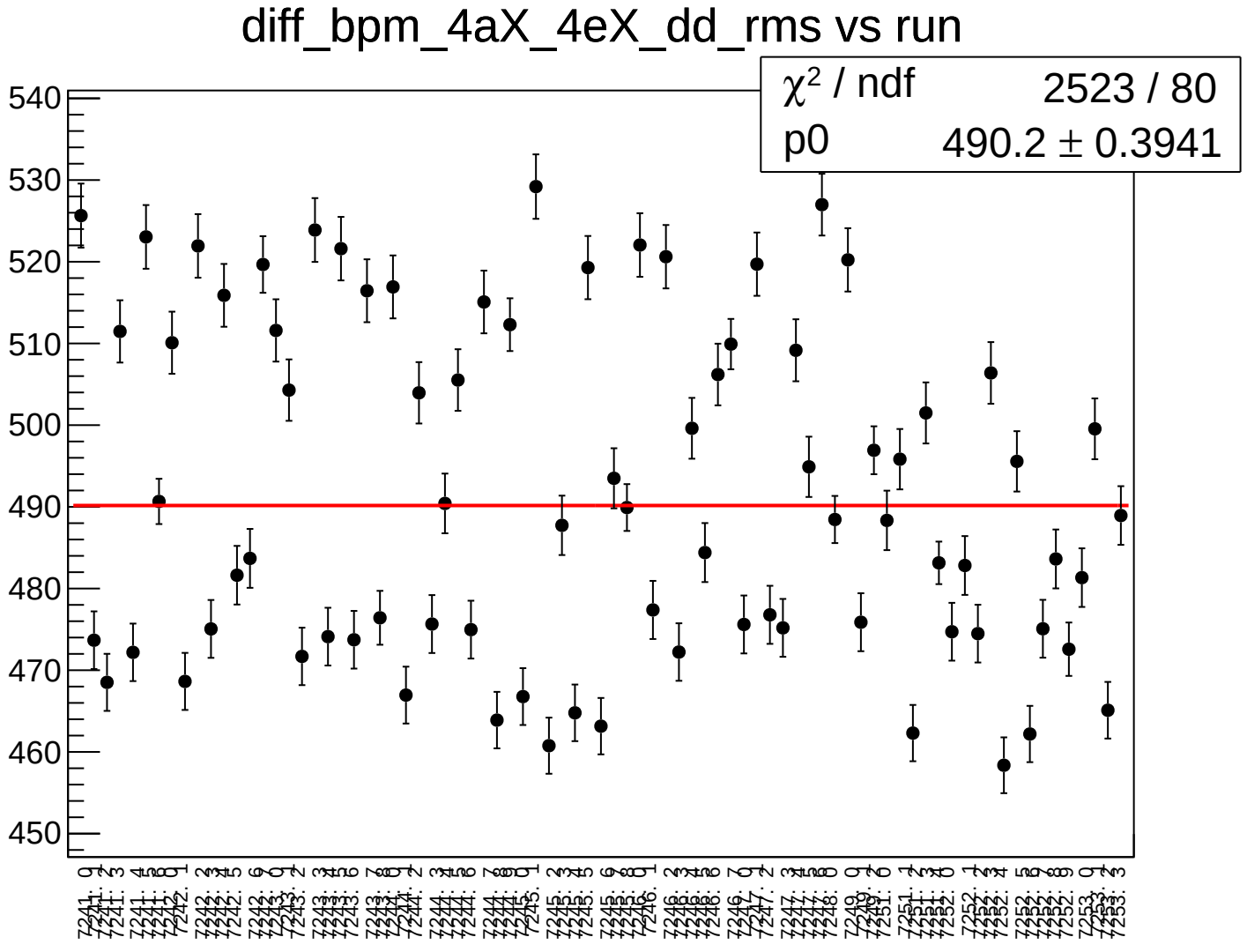

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 89.41 / 80
p0 −17.63 ± 9.218
pull
Entries 81
Mean 108.5
Std Dev 0

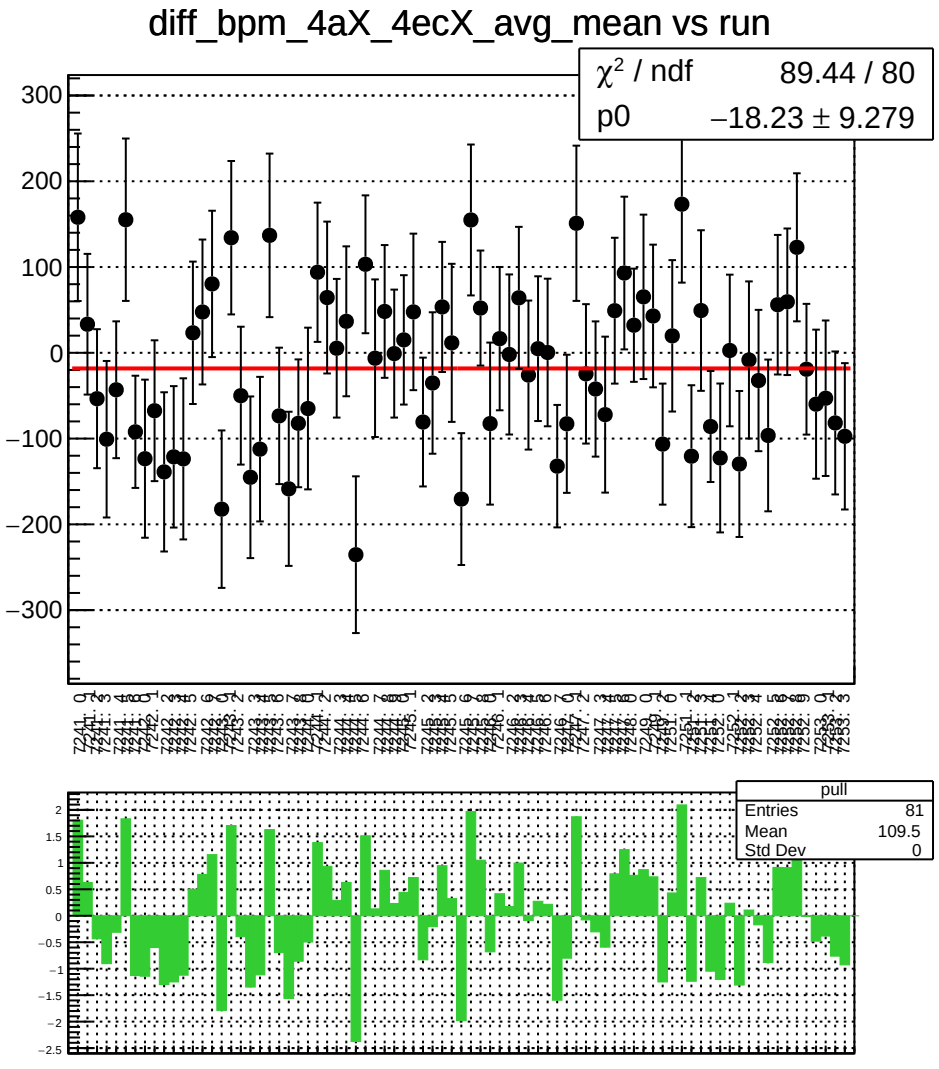

pull1D
Entries 81
Mean 0.01467
Std Dev 1.051

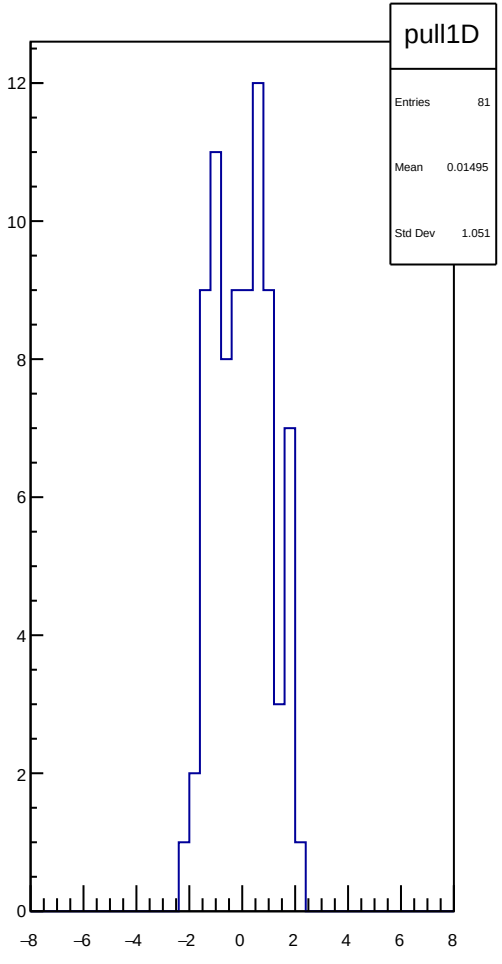

diff_bpm_4aX_4eX_avg_rms vs run
χ² / ndf 5999 / 80
p0 8097 ± 6.518
9000
8500
8000
7500
7000

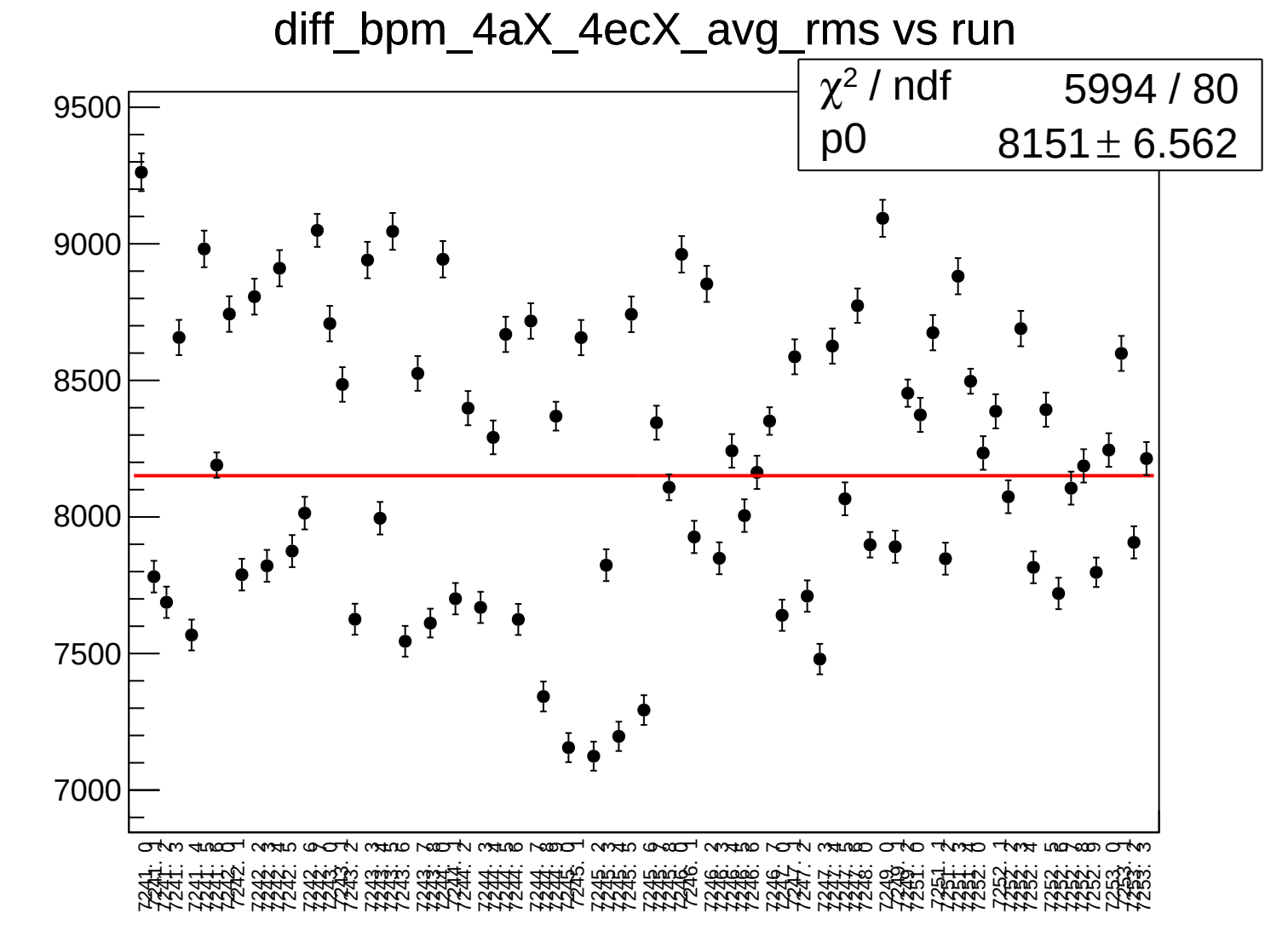

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 95.27 / 80
p0 −1.089 ± 0.5574
pull
Entries 81
Mean 73.68
Std Dev 0

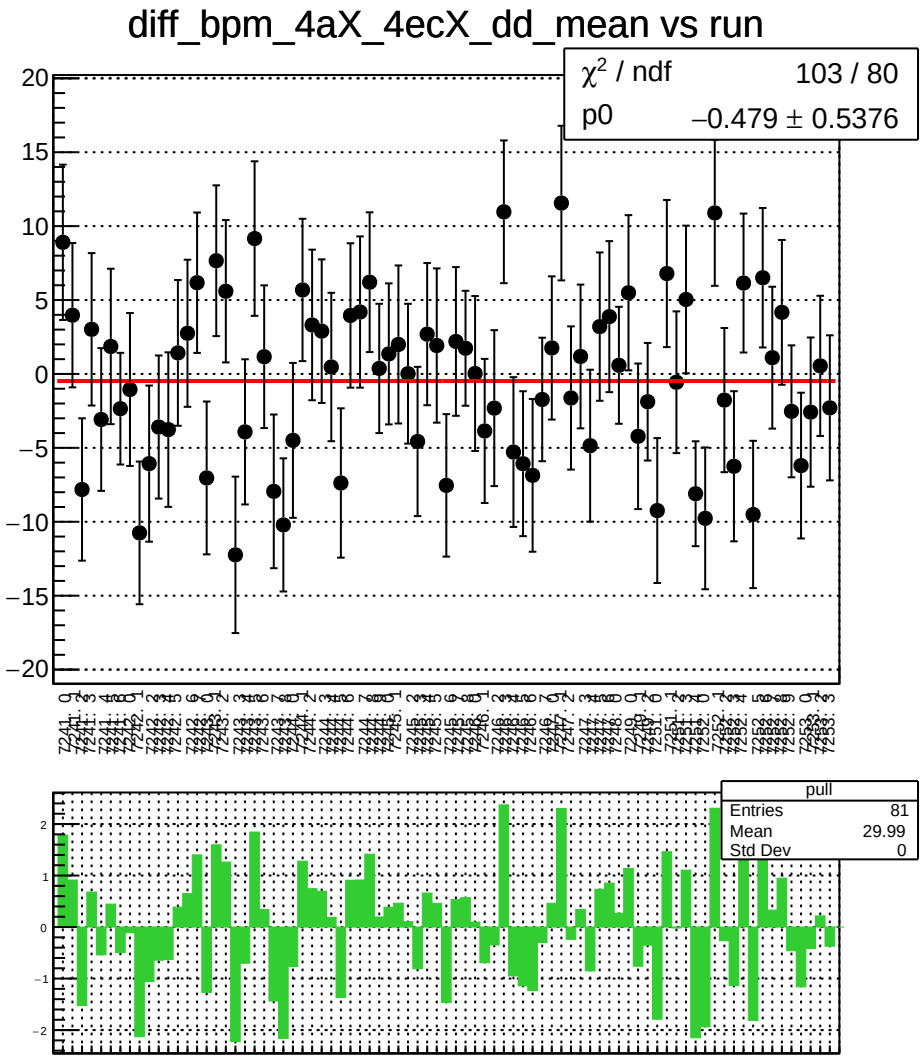

pull1D
Entries 81
Mean 0.01854
Std Dev 1.084

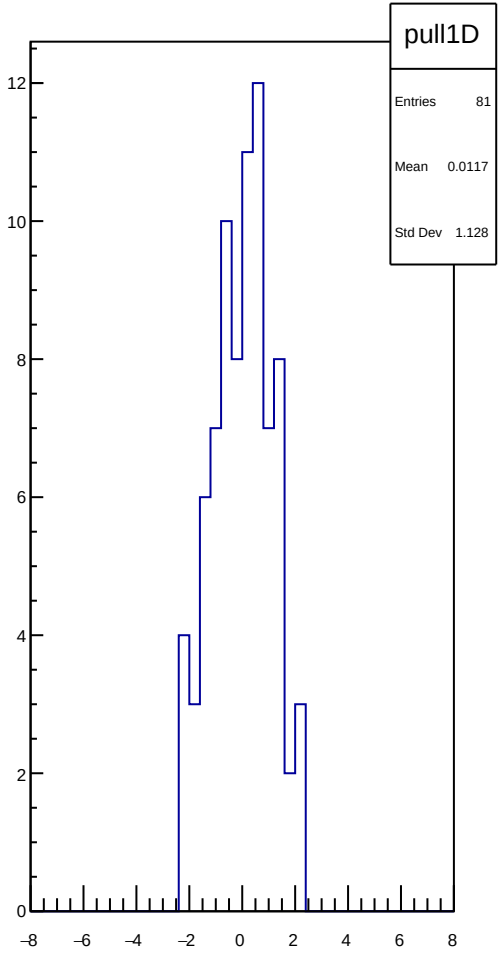

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 2523 / 80
p0 490.2 ± 0.3941
540
530
520
510
500
490
480
470
460
450

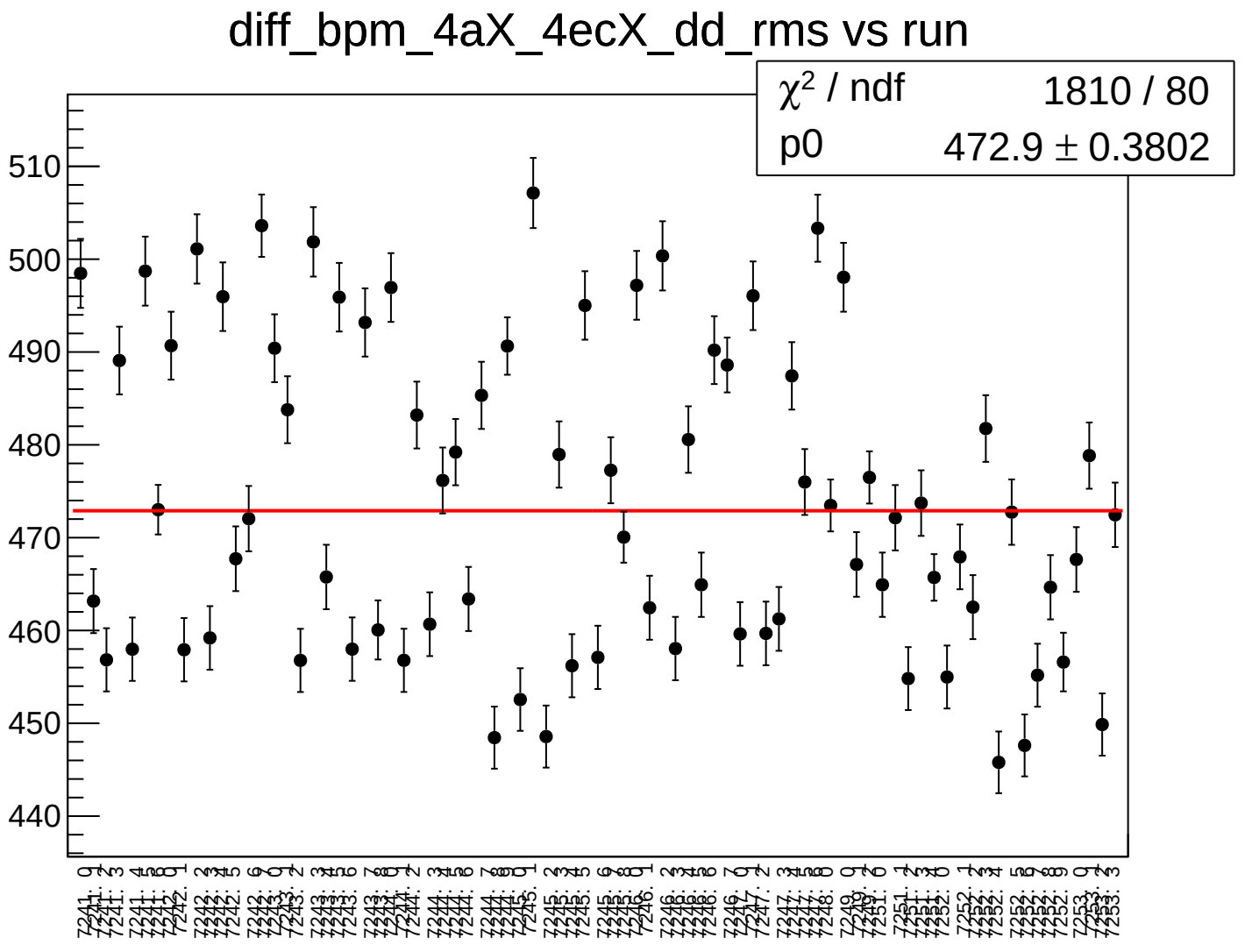

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 89.44 / 80
p0 −18.23 ± 9.279
pull
Entries 81
Mean 109.5
Std Dev 0

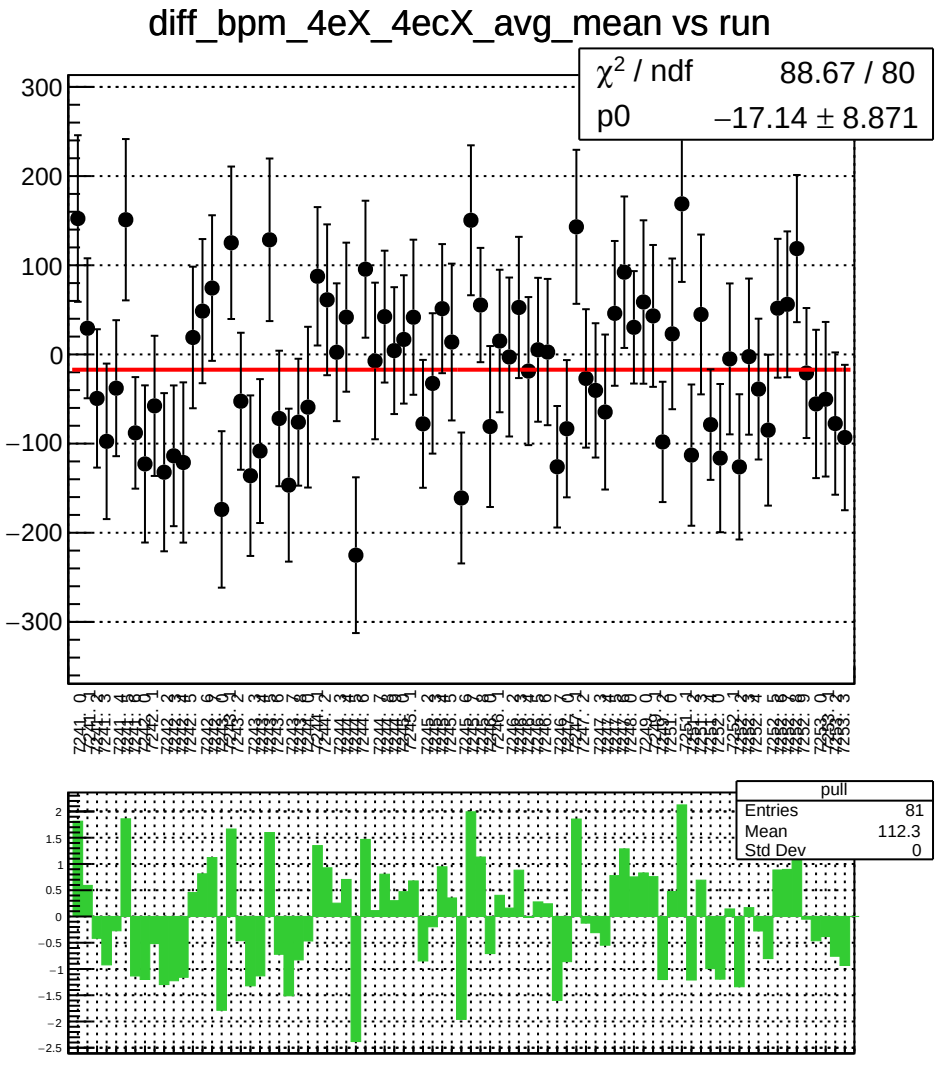

pull1D
Entries 81
Mean 0.01495
Std Dev 1.051

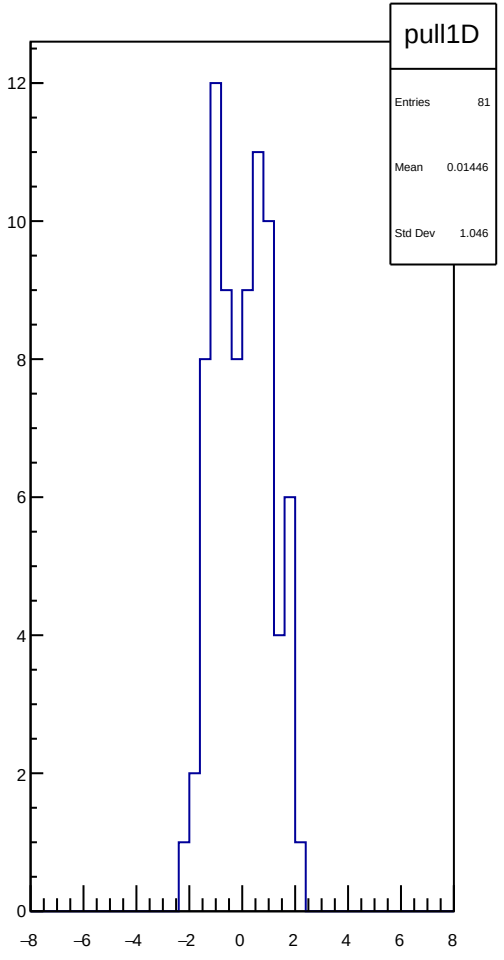

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 5994 / 80
p0 8151 ± 6.562
9500
9000
8500
8000
7500
7000

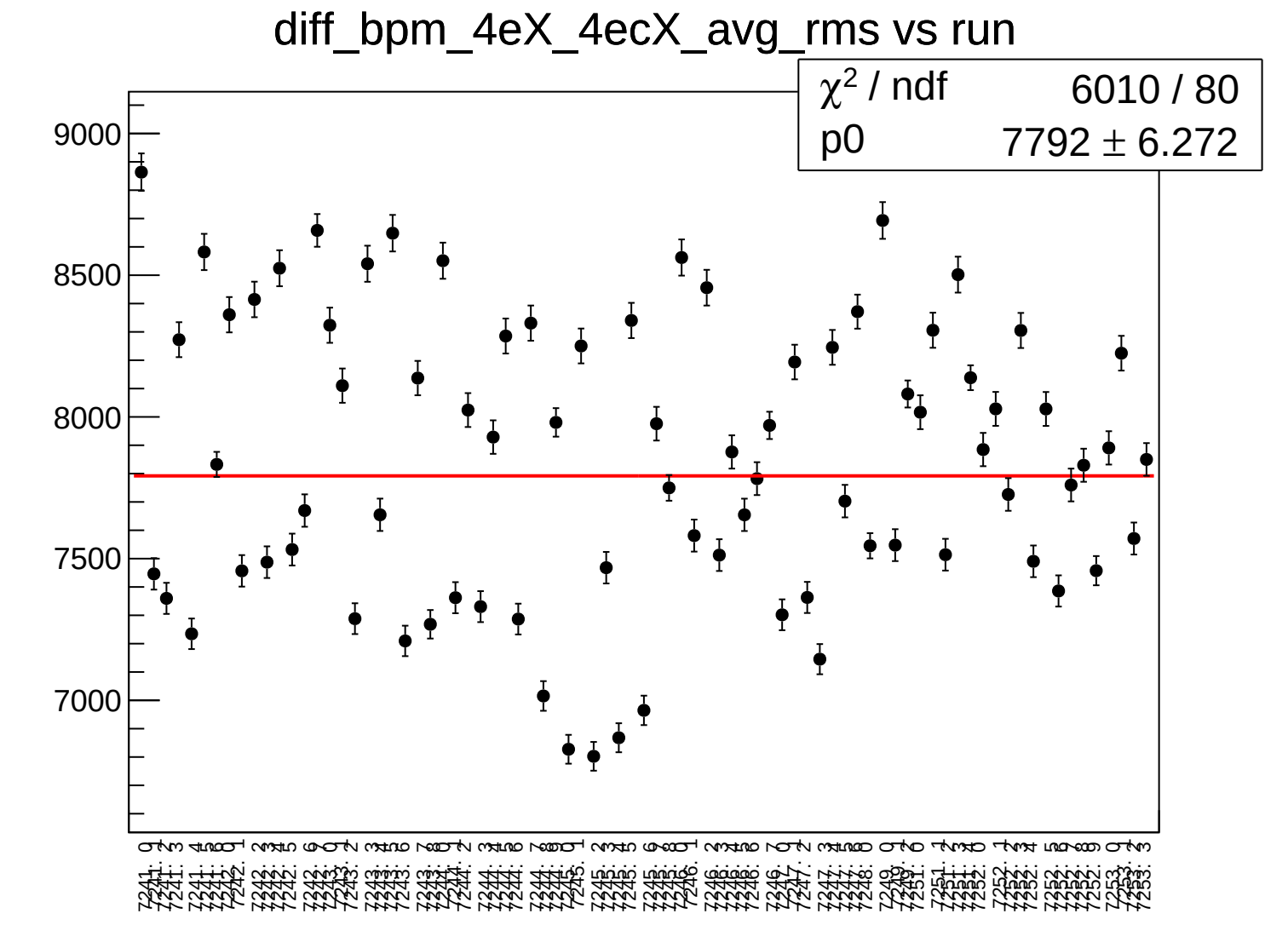

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 103 / 80
p0 −0.479 ± 0.5376
pull
Entries 81
Mean 29.99
Std Dev 0

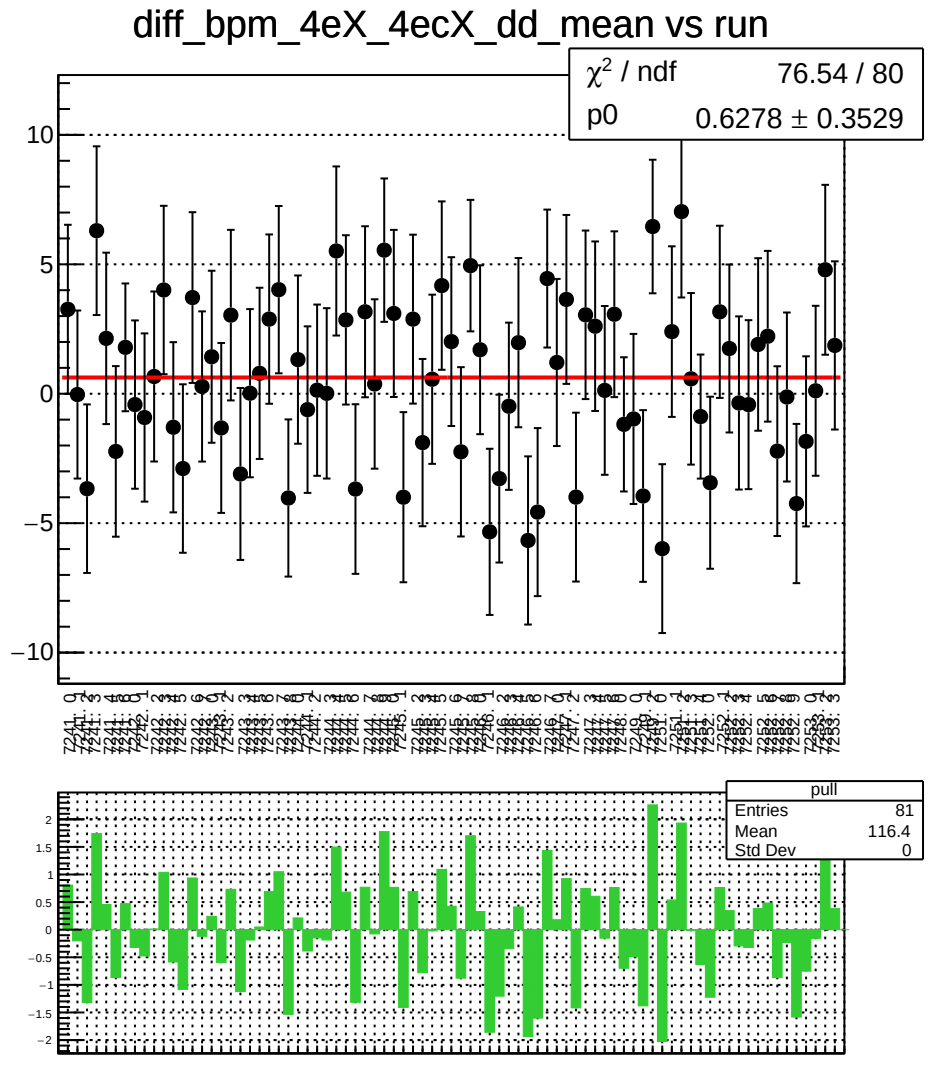

pull1D
Entries 81
Mean 0.0117
Std Dev 1.128

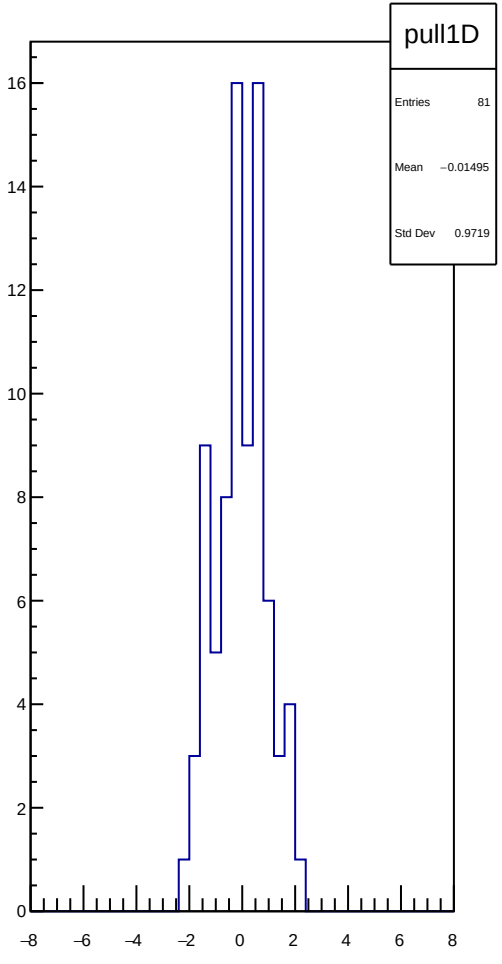

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 1810 / 80
p0 472.9 ± 0.3802
510
500
490
480
470
460
450
440

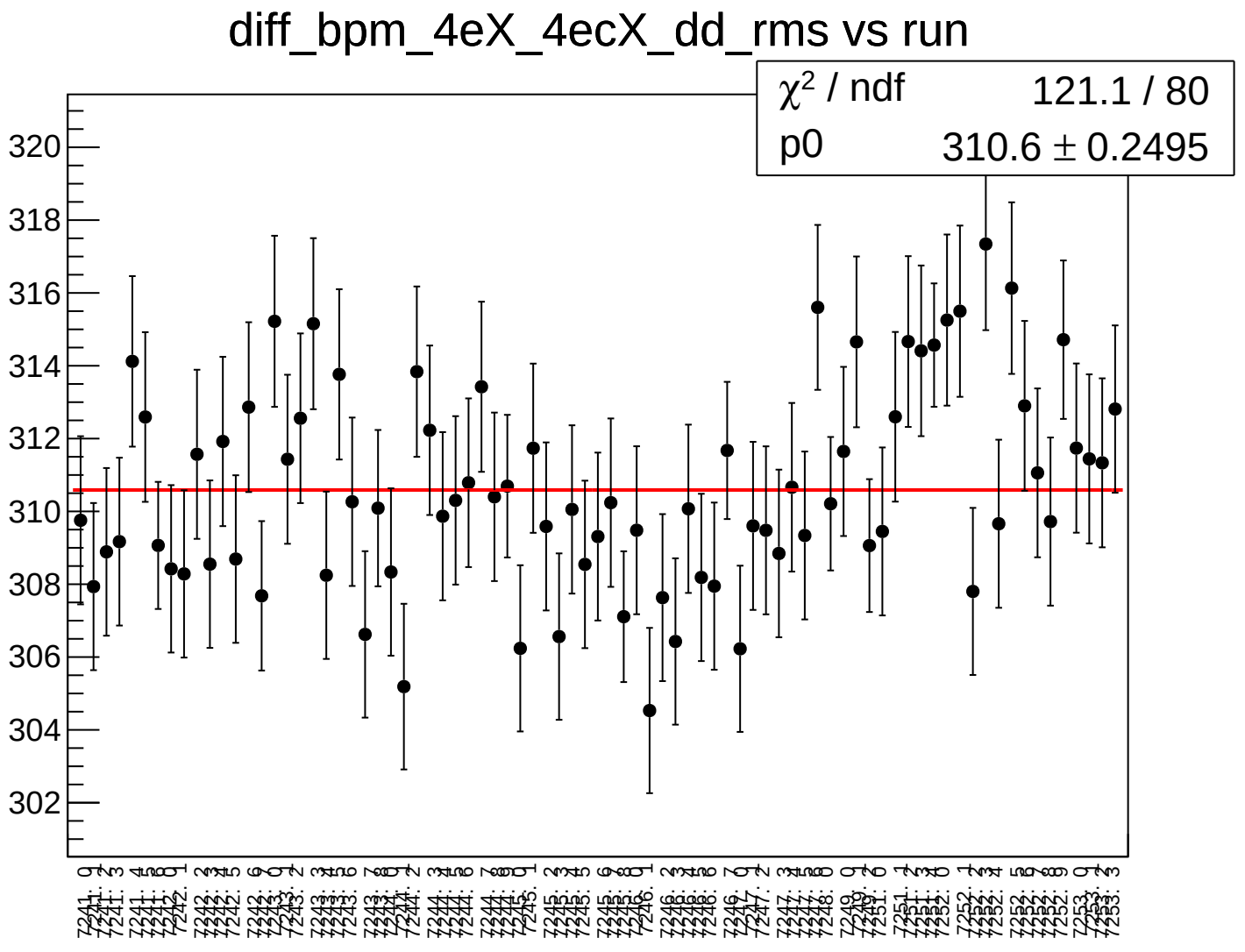

diff_bpm_4eX_4ecX_avg_mean vs run
χ^2 / ndf 88.67 / 80
p0 −17.14 ± 8.871
300
200
100
0
−100
−200
−300
pull
Entries 81
Mean 112.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

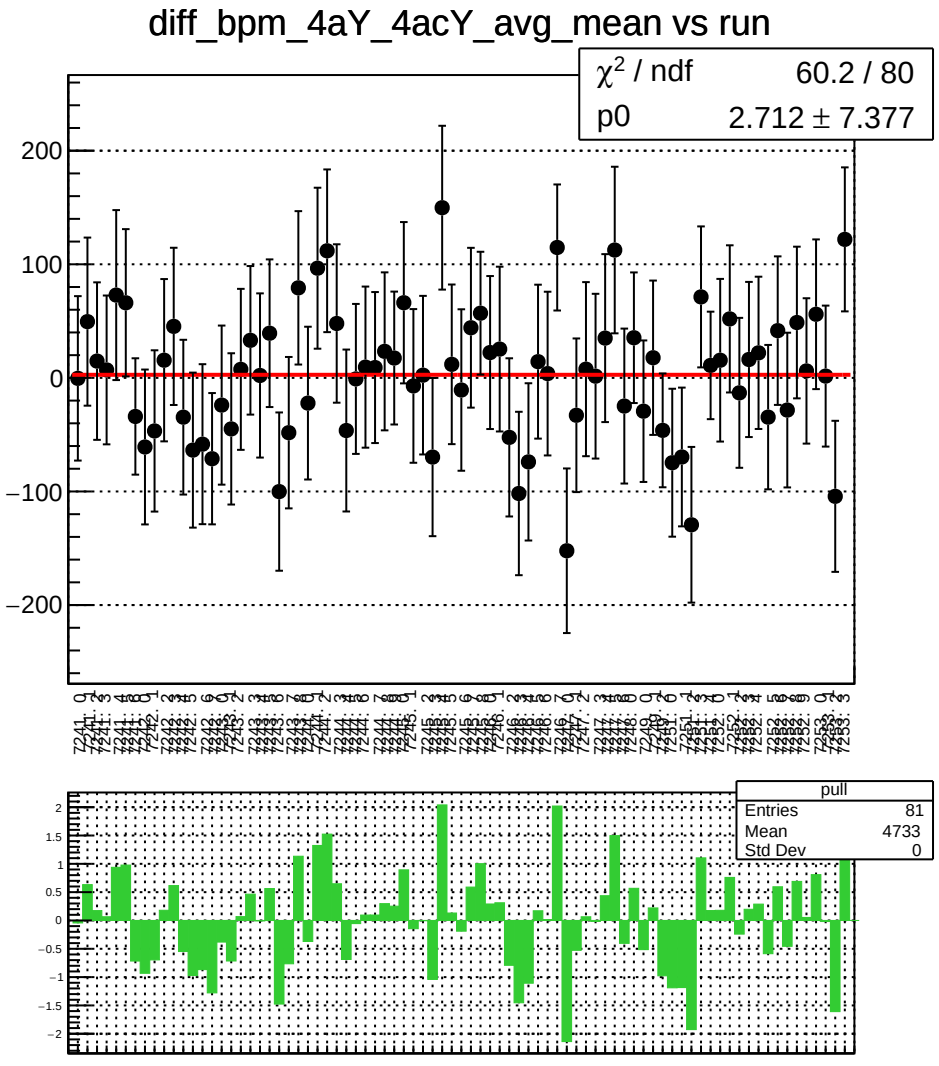

pull1D
Entries 81
Mean 0.01446
Std Dev 1.046
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

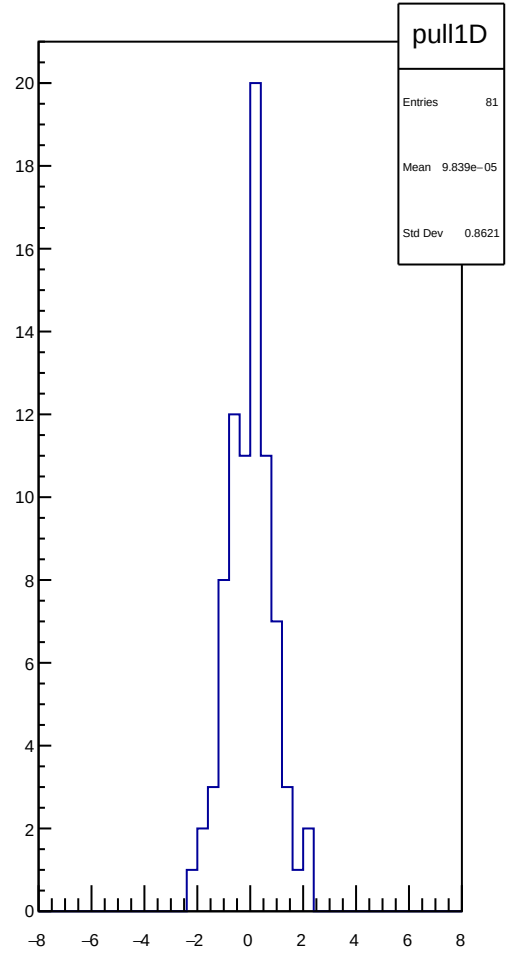

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 6010 / 80
p0 7792 ± 6.272
9000
8500
8000
7500
7000

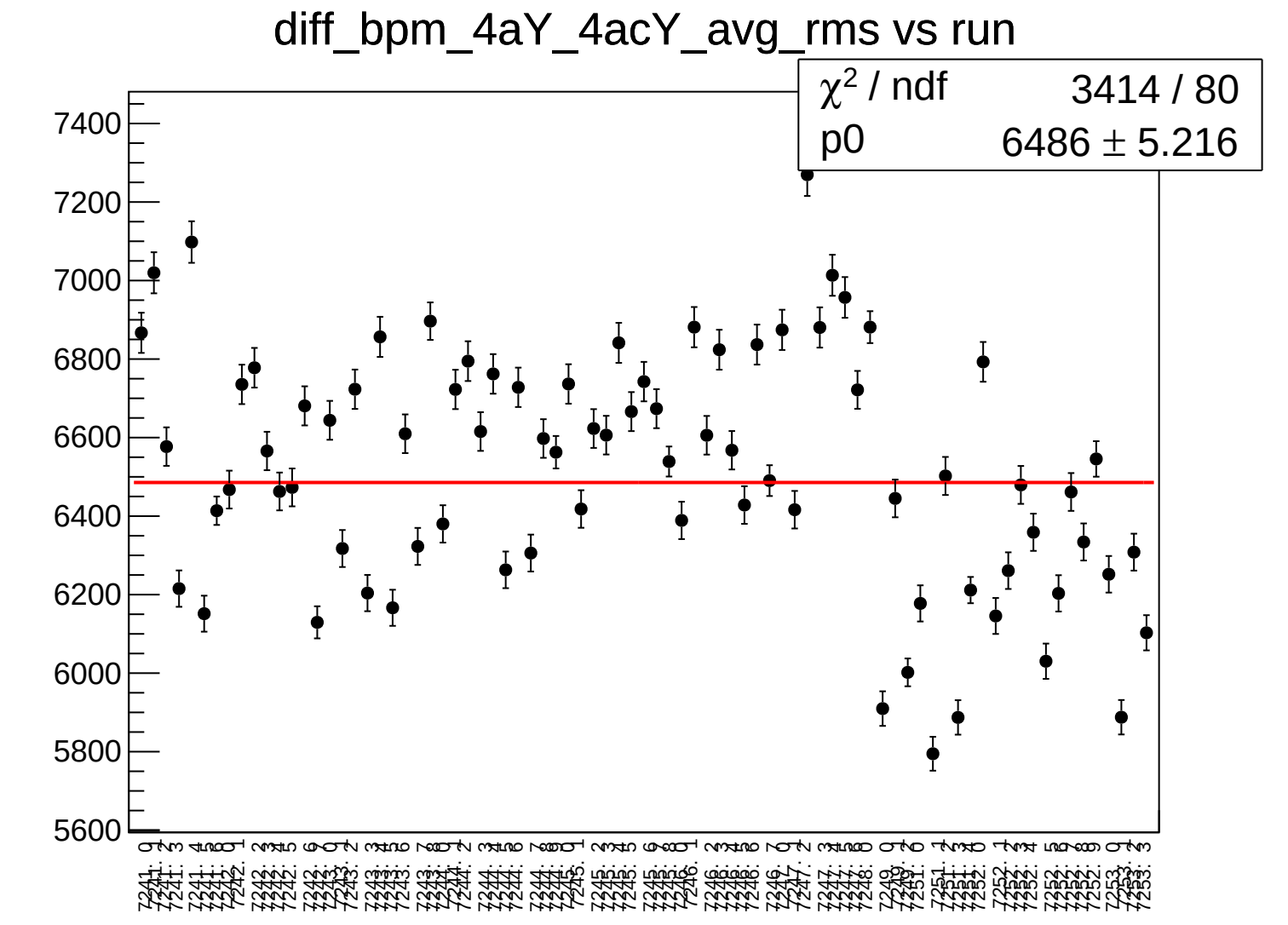

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 76.54 / 80
p0 0.6278 ± 0.3529
pull
Entries 81
Mean 116.4
Std Dev 0

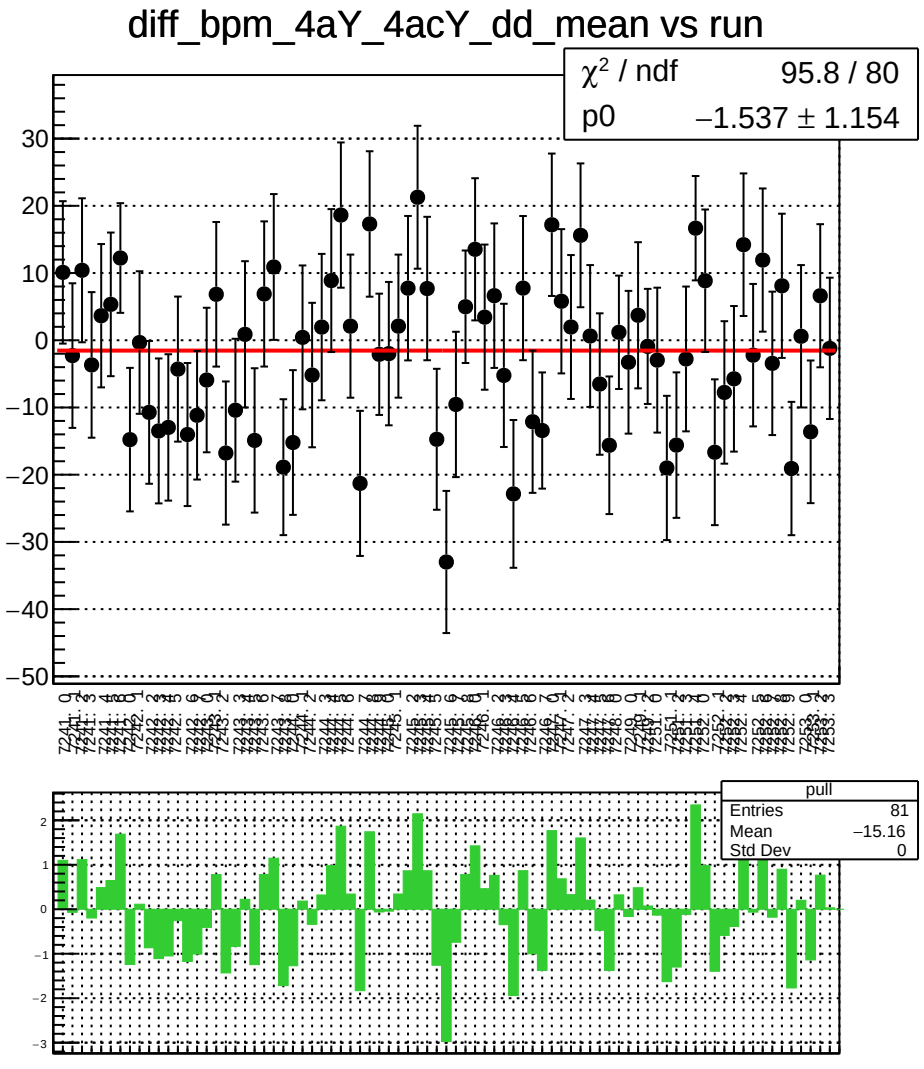

pull1D
Entries 81
Mean −0.01495
Std Dev 0.9719

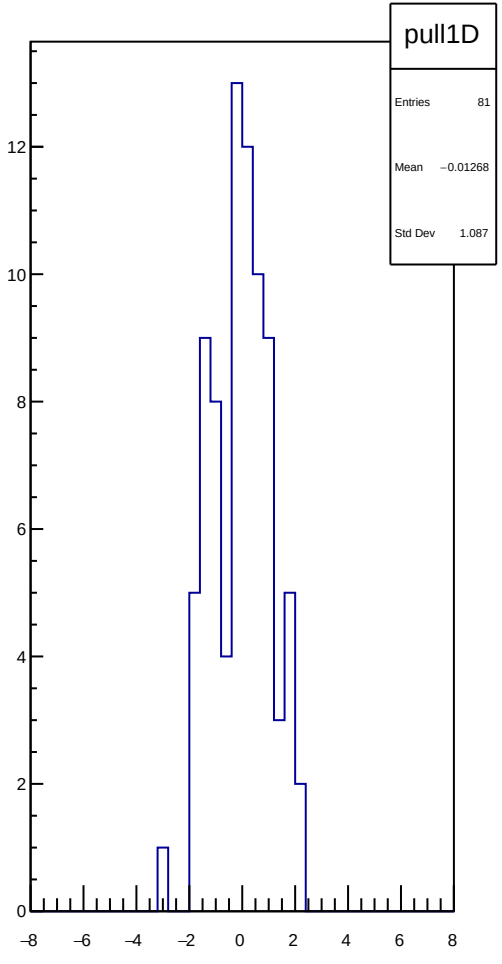

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 121.1 / 80
p0 310.6 ± 0.2495
320
318
316
314
312
310
308
306
304
302

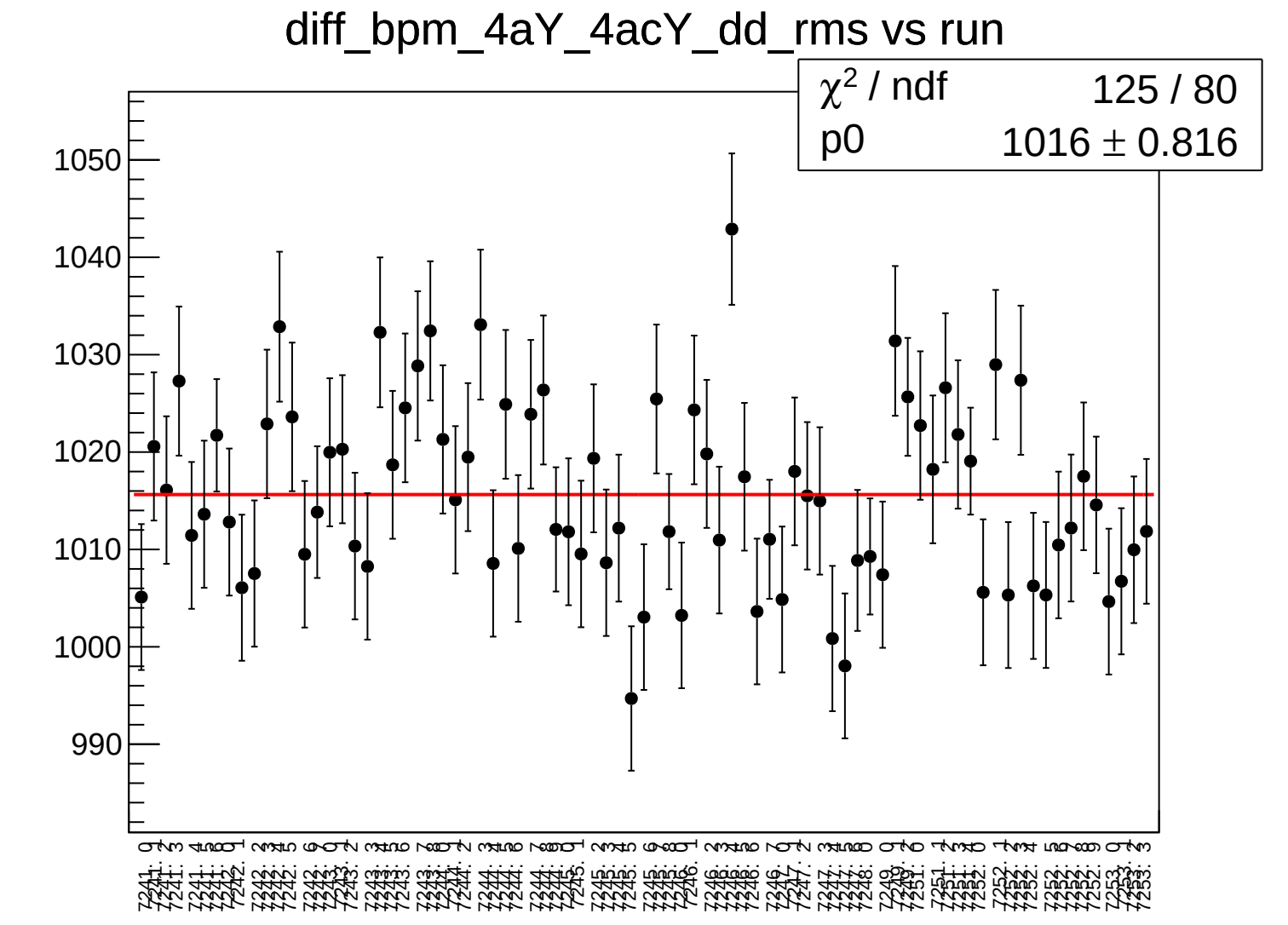

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 60.2 / 80
p0 2.712 ± 7.377
pull
Entries 81
Mean 4733
Std Dev 0

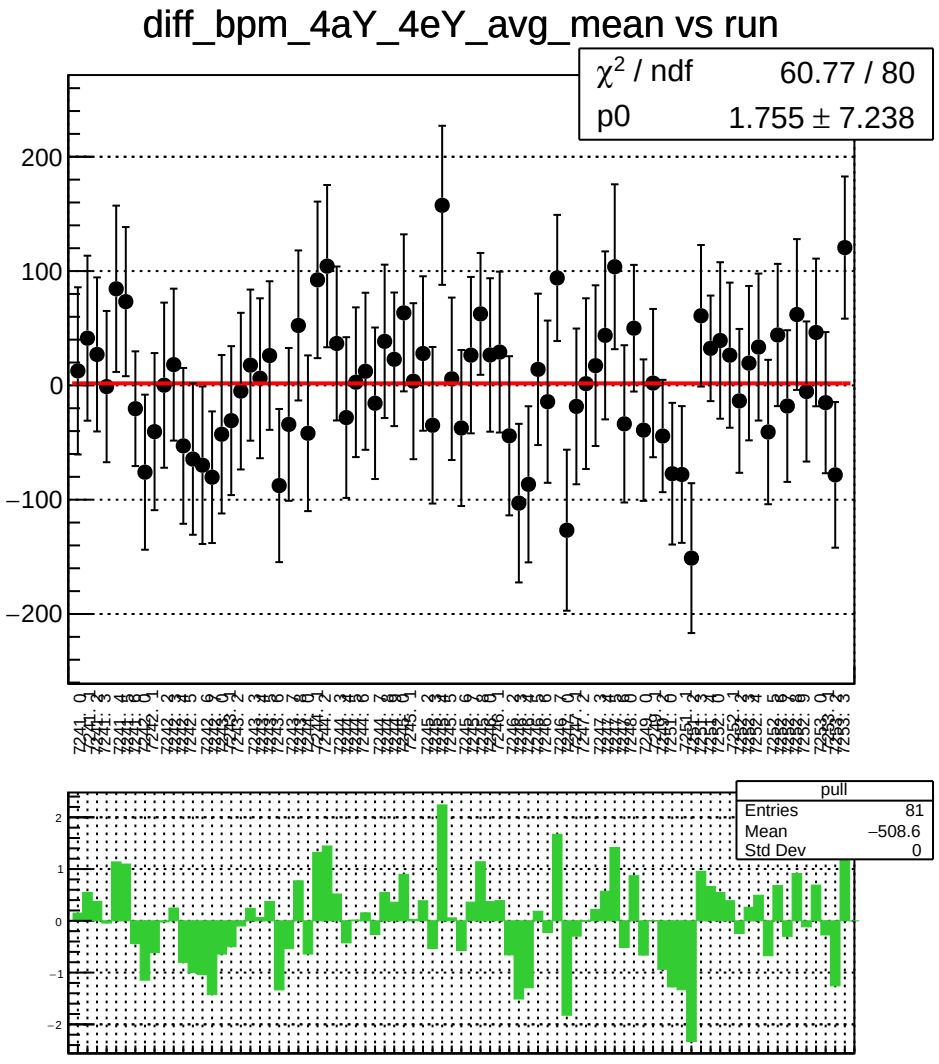

pull1D
Entries 81
Mean 9.839e−05
Std Dev 0.8621

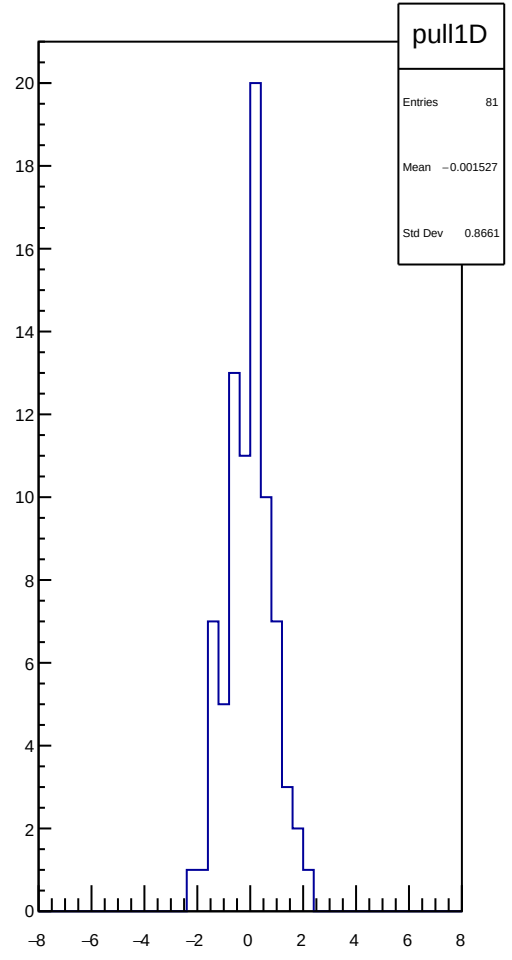

diff_bpm_4aY_4acY_avg_rms vs run
χ² / ndf 3414 / 80
p0 6486 ± 5.216
7400
7200
7000
6800
6600
6400
6200
6000
5800
5600

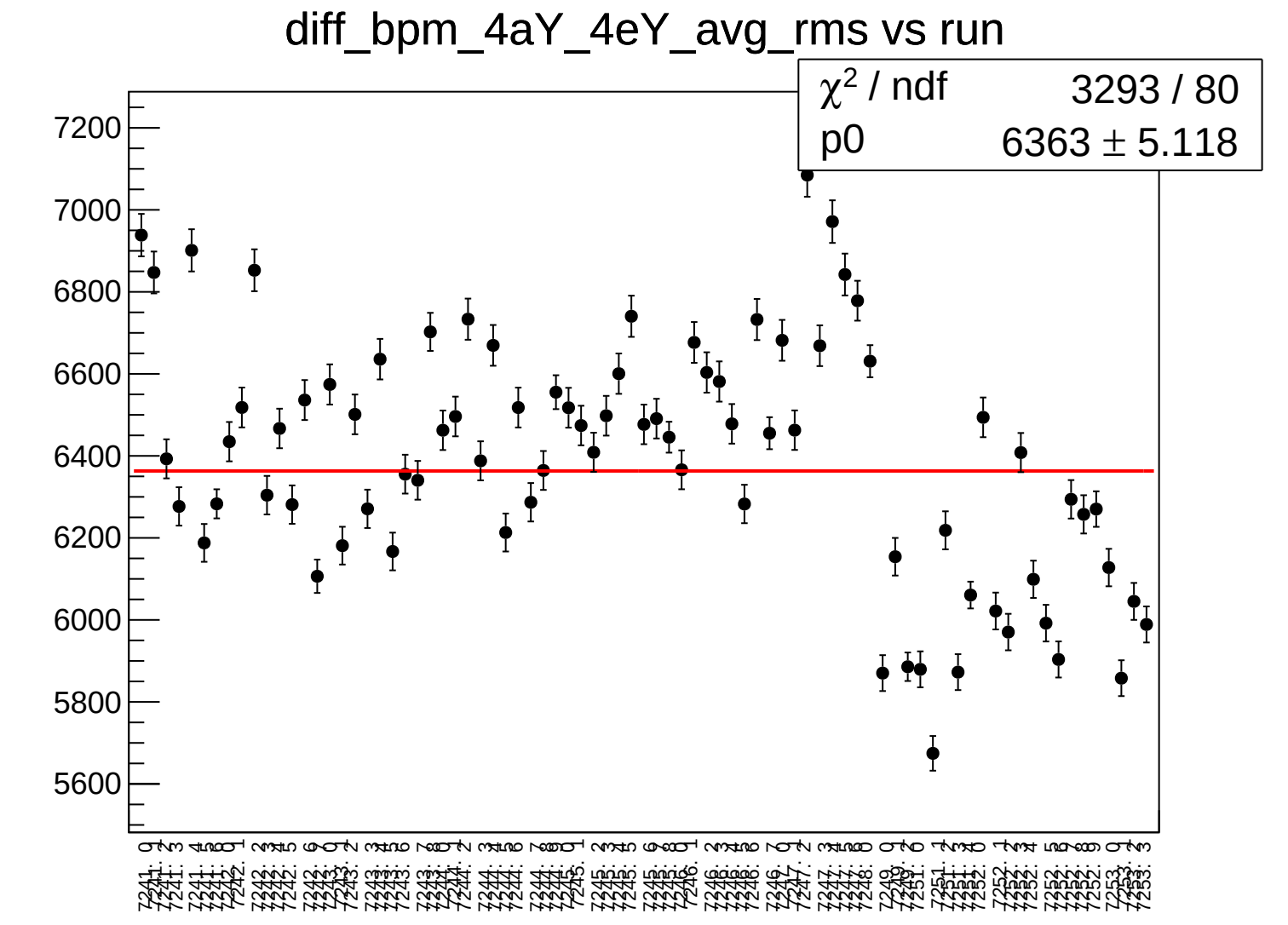

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 95.8 / 80
p0 −1.537 ± 1.154
pull
Entries 81
Mean −15.16
Std Dev 0

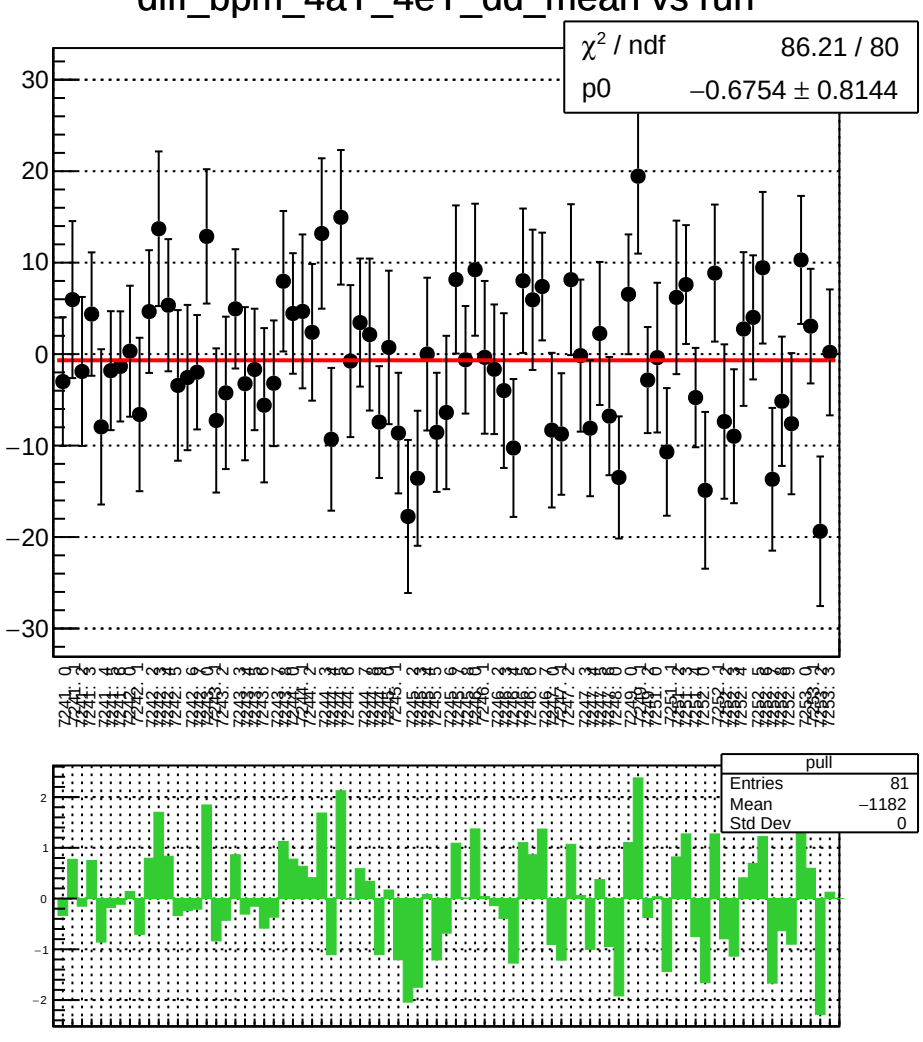

pull1D
Entries 81
Mean −0.01268
Std Dev 1.087

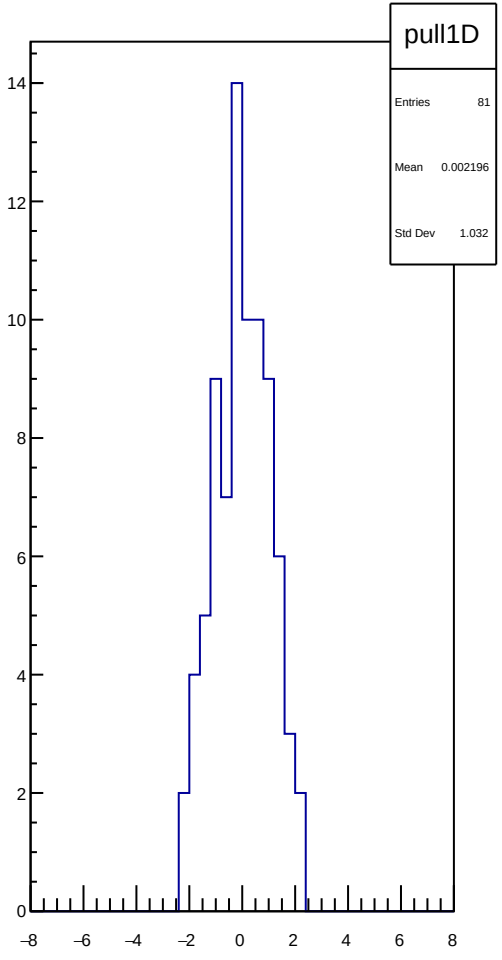

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 125 / 80
p0 1016 ± 0.816
1050
1040
1030
1020
1010
1000
990

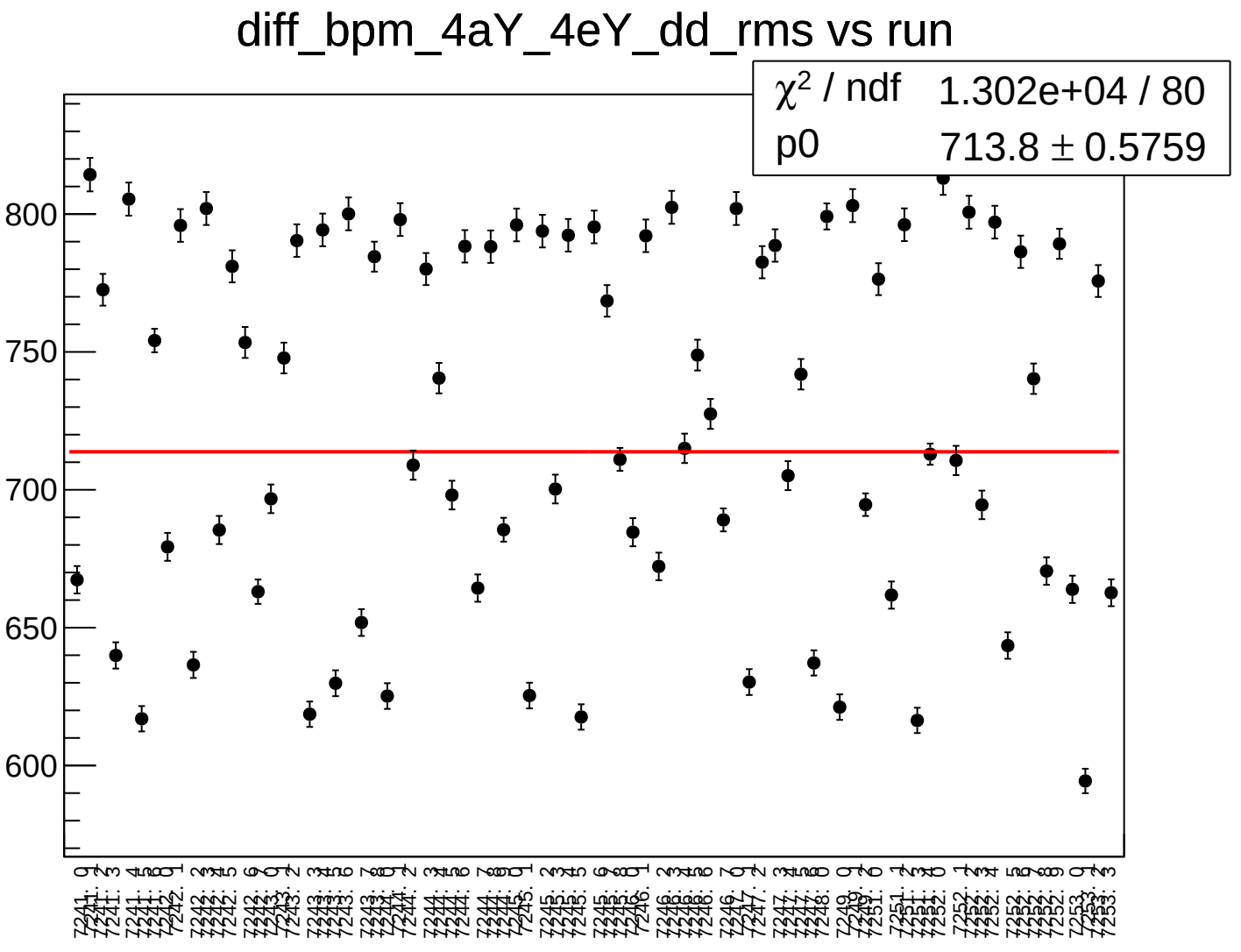

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 60.77 / 80
p0 1.755 ± 7.238
200
100
0
−100
−200
pull
Entries 81
Mean −508.6
Std Dev 0
2
1
0
−1
−2

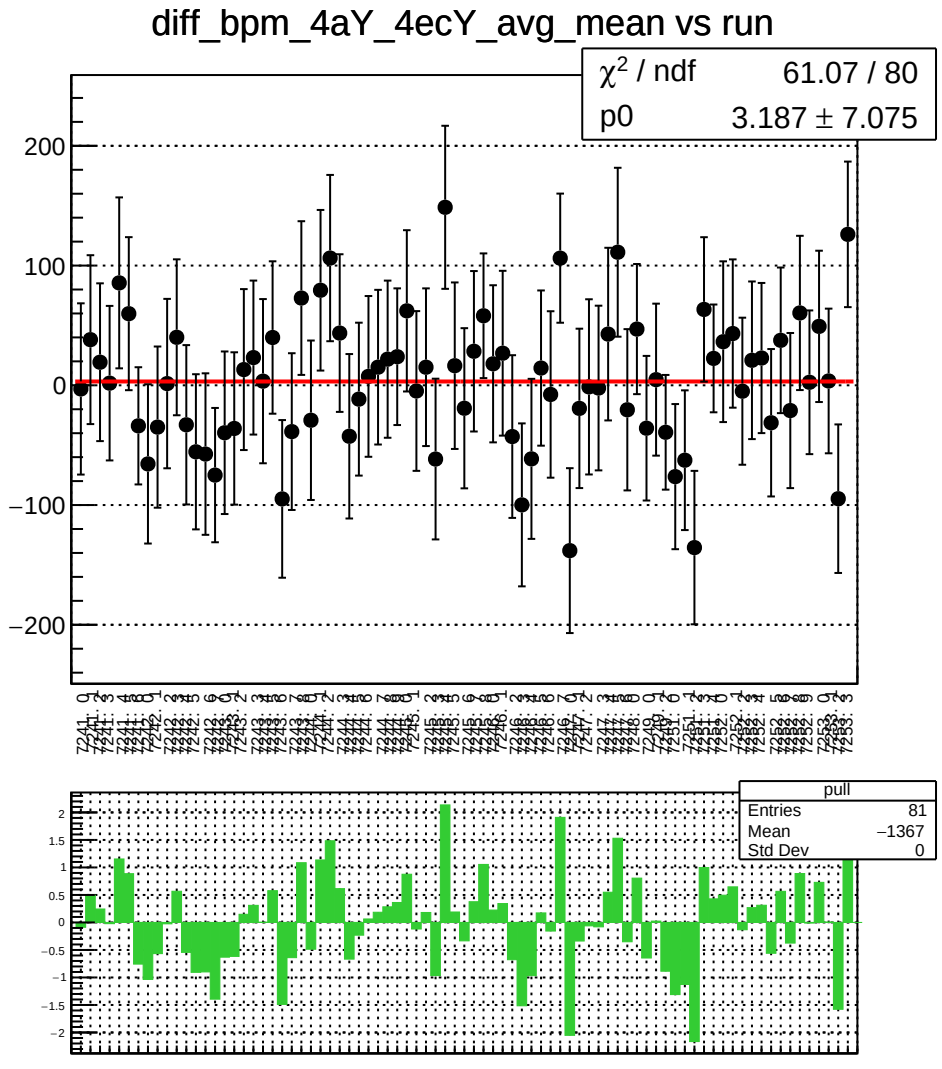

pull1D
Entries 81
Mean −0.001527
Std Dev 0.8661
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

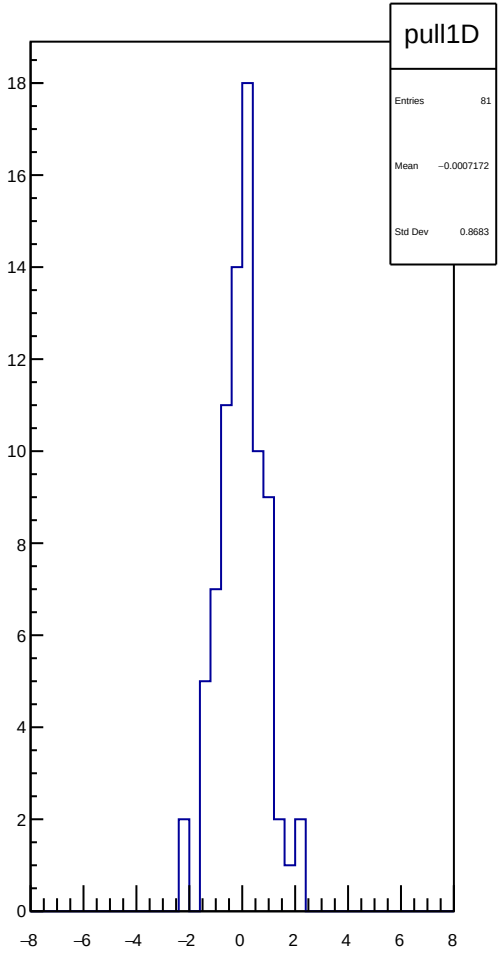

diff_bpm_4aY_4eY_avg_rms vs run
χ² / ndf 3293 / 80
p0 6363 ± 5.118
7200
7000
6800
6600
6400
6200
6000
5800
5600

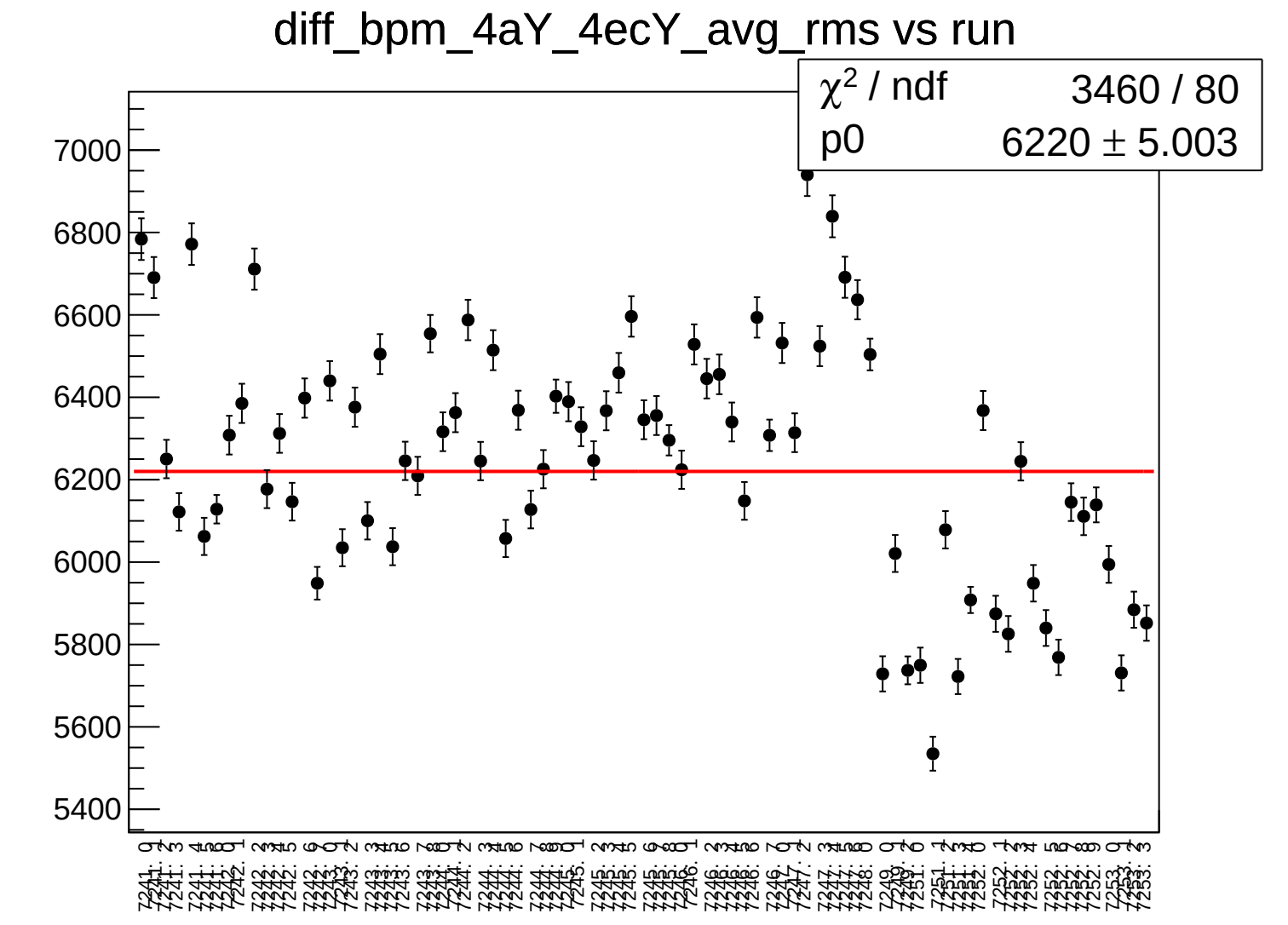

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 86.21 / 80
p0 −0.6754 ± 0.8144
pull
Entries 81
Mean −1182
Std Dev 0

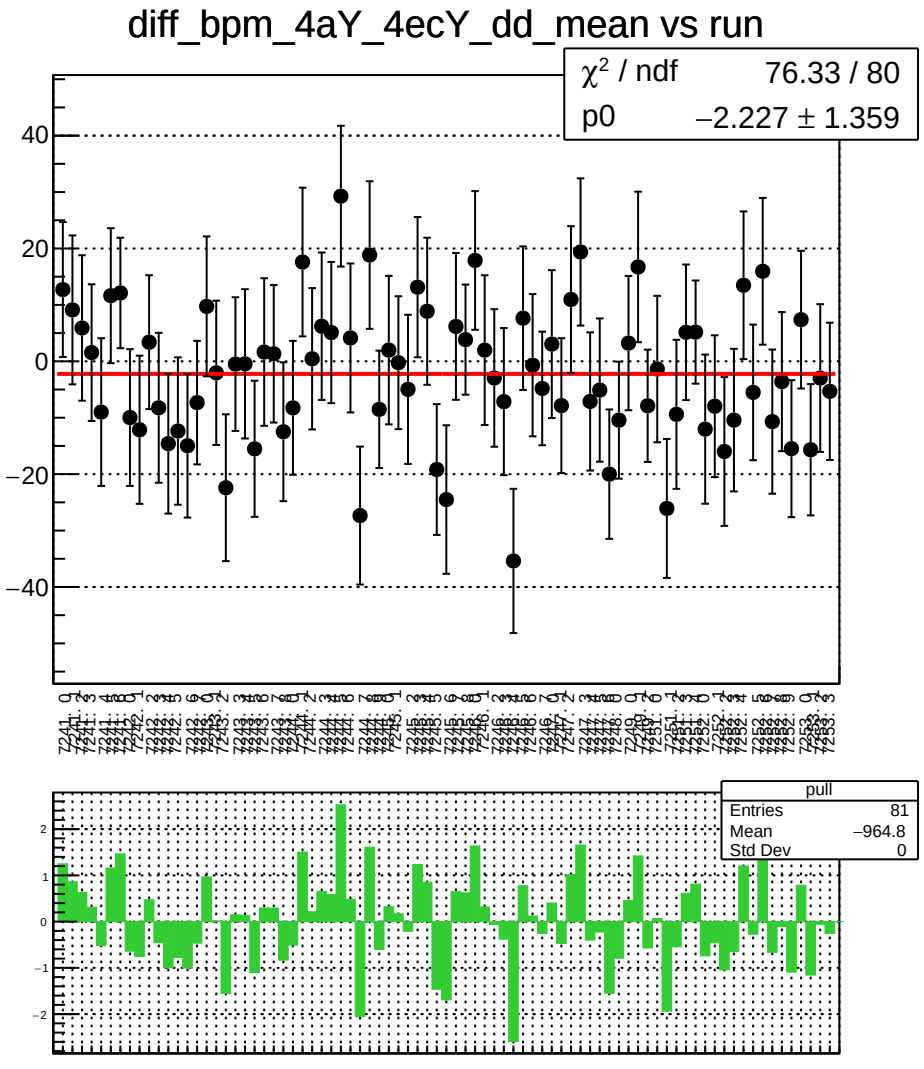

pull1D
Entries 81
Mean 0.002196
Std Dev 1.032

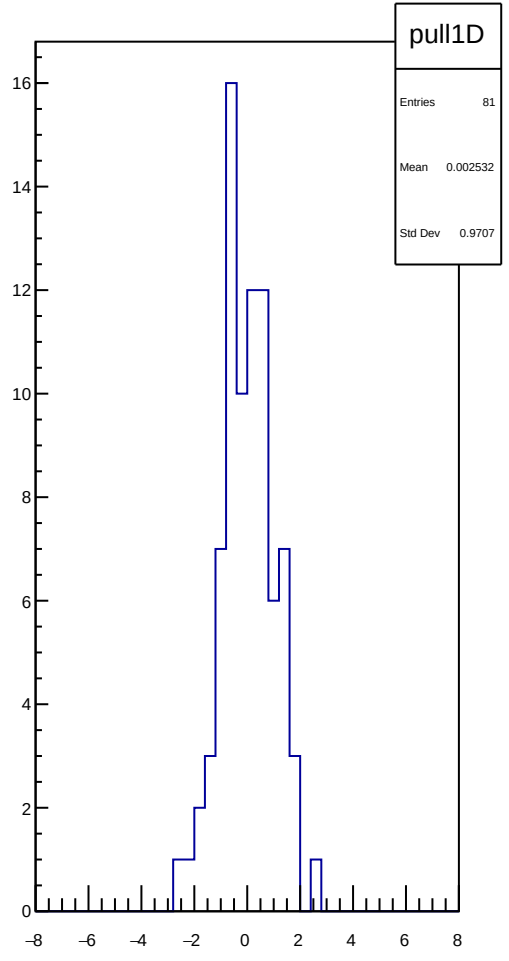

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 1.302e+04 / 80
p0 713.8 ± 0.5759
800
750
700
650
600

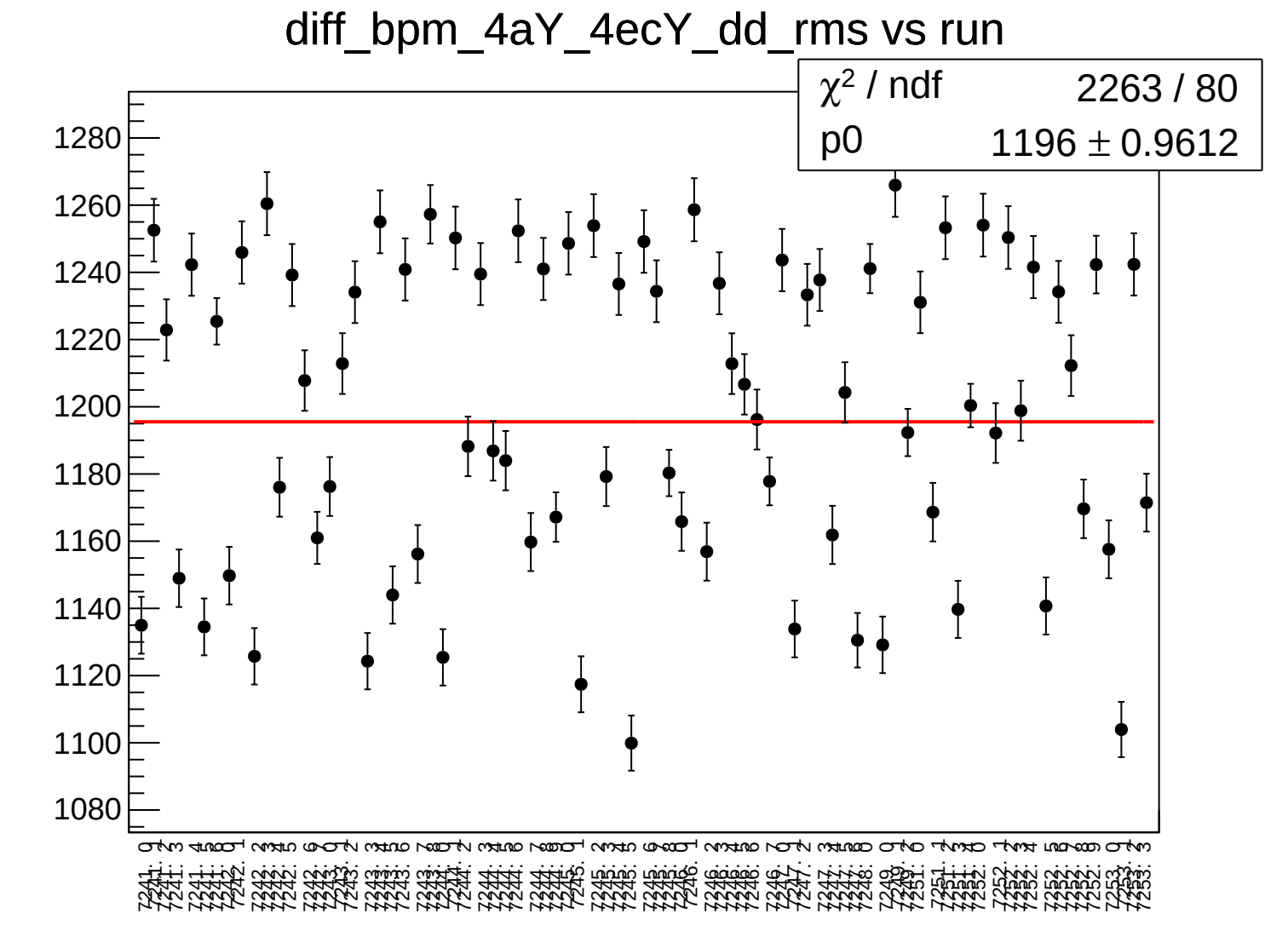

diff_bpm_4aY_4ecY_avg_mean vs run
χ² / ndf 61.07 / 80
p0 3.187 ± 7.075
pull
Entries 81
Mean −1367
Std Dev 0

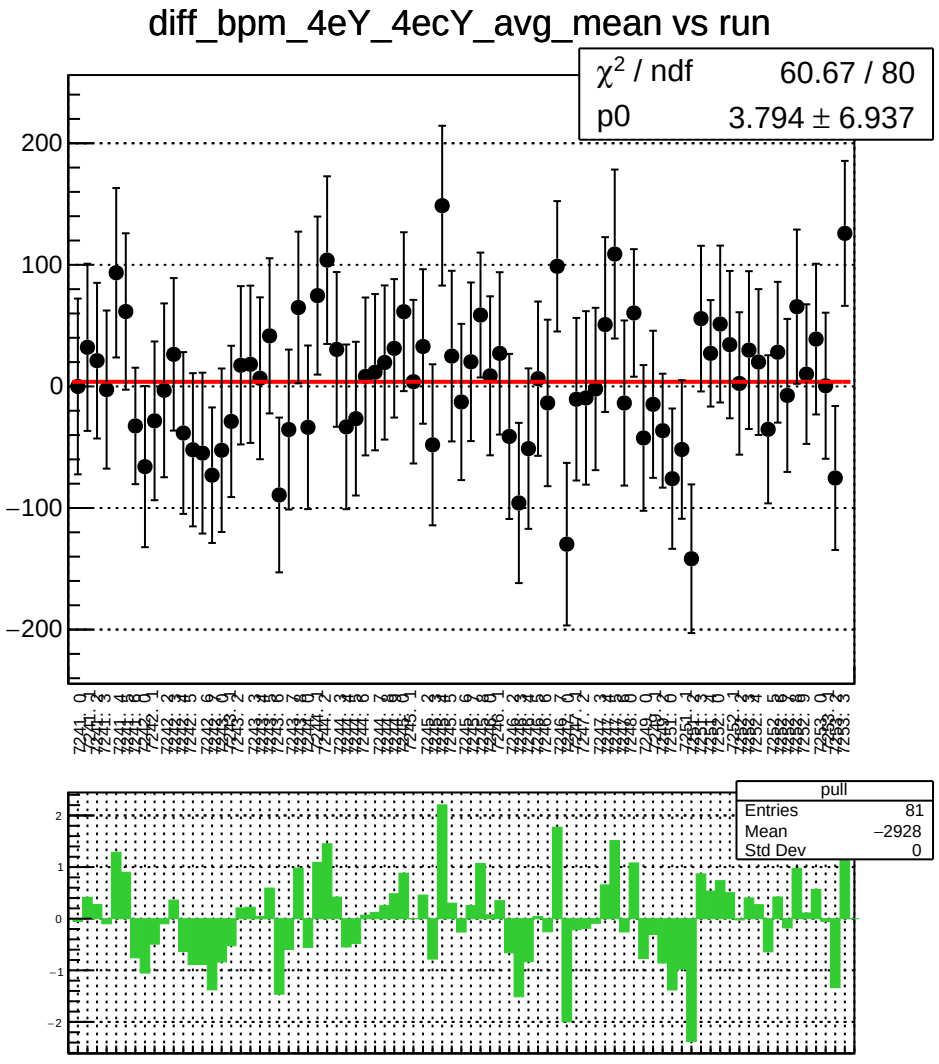

pull1D
Entries 81
Mean −0.0007172
Std Dev 0.8683

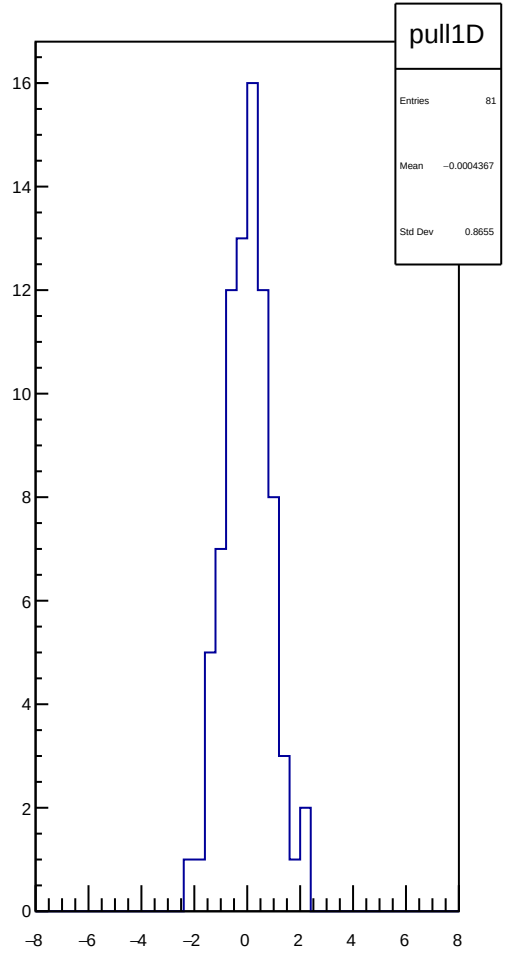

diff_bpm_4aY_4ecY_avg_rms vs run
χ² / ndf 3460 / 80
p0 6220 ± 5.003
7000
6800
6600
6400
6200
6000
5800
5600
5400

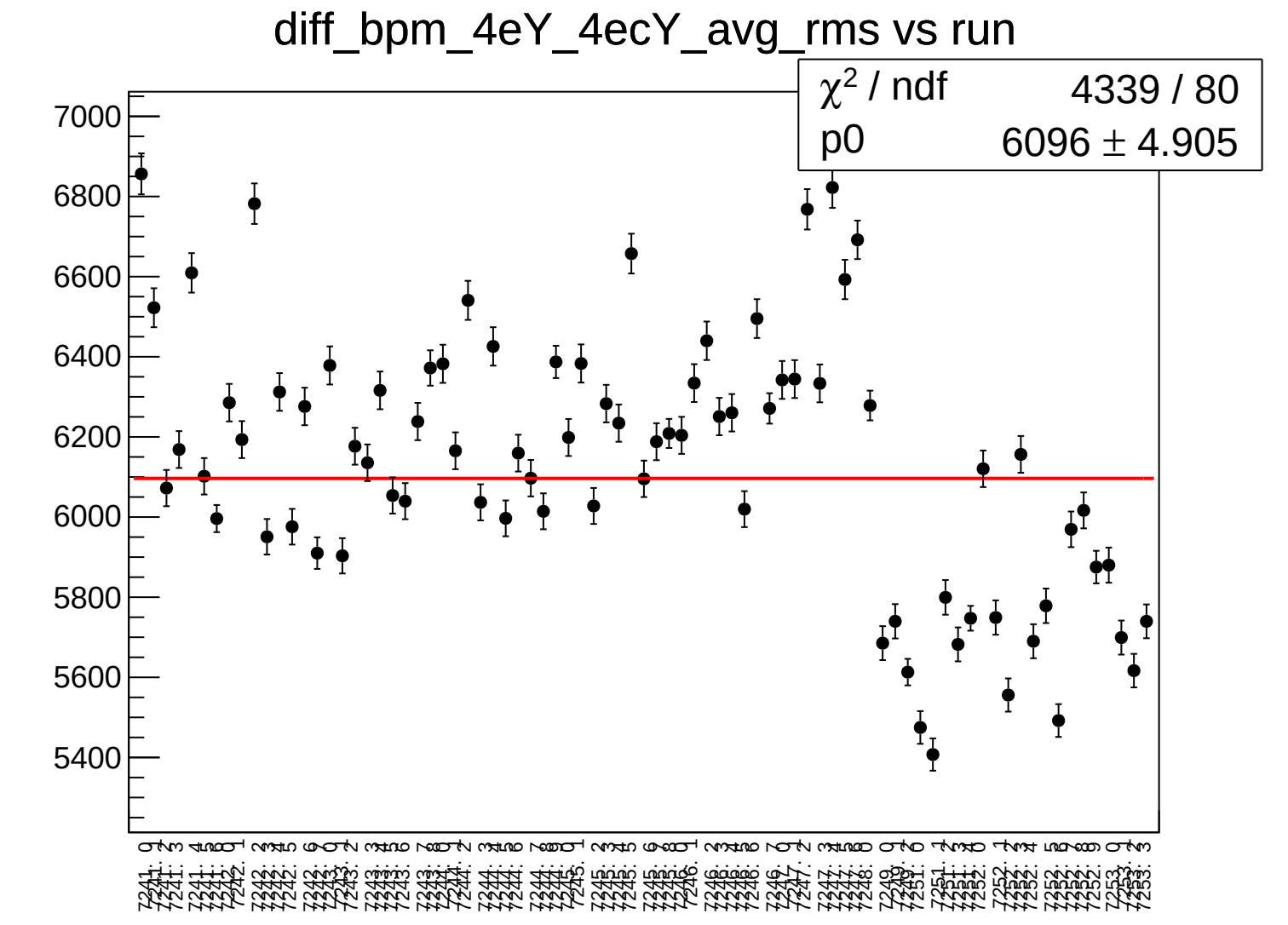

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 76.33 / 80
p0 −2.227 ± 1.359
40
20
0
−20
−40
pull
Entries 81
Mean −964.8
Std Dev 0
2
1
0
−1
−2

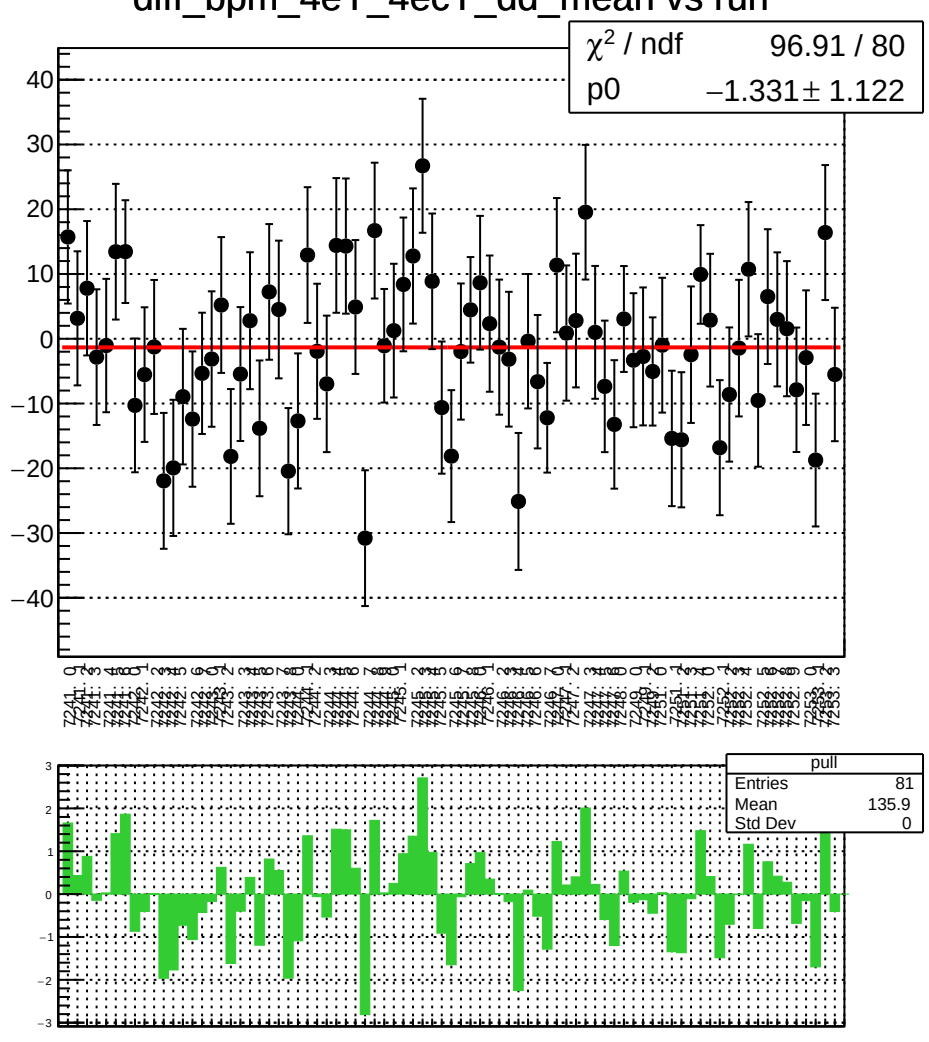

pull1D
Entries 81
Mean 0.002532
Std Dev 0.9707
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

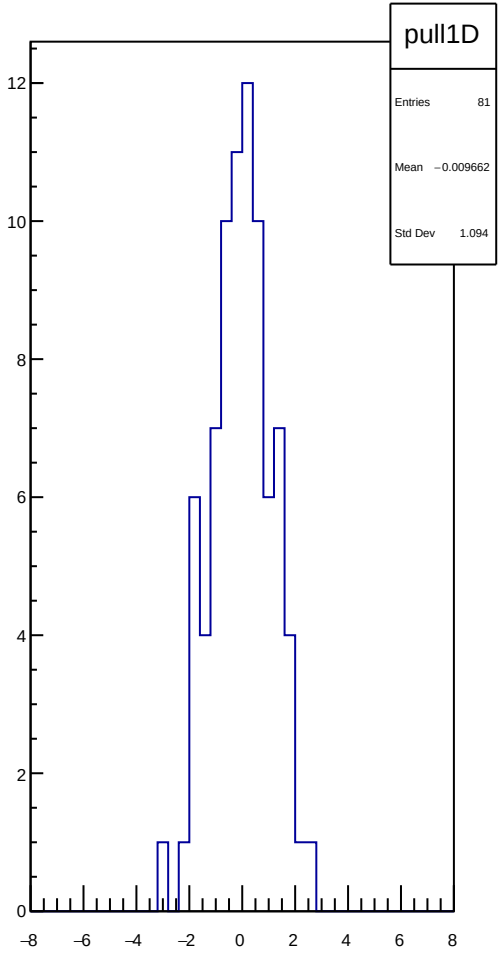

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 2263 / 80
p0 1196 ± 0.9612
1280
1260
1240
1220
1200
1180
1160
1140
1120
1100
1080

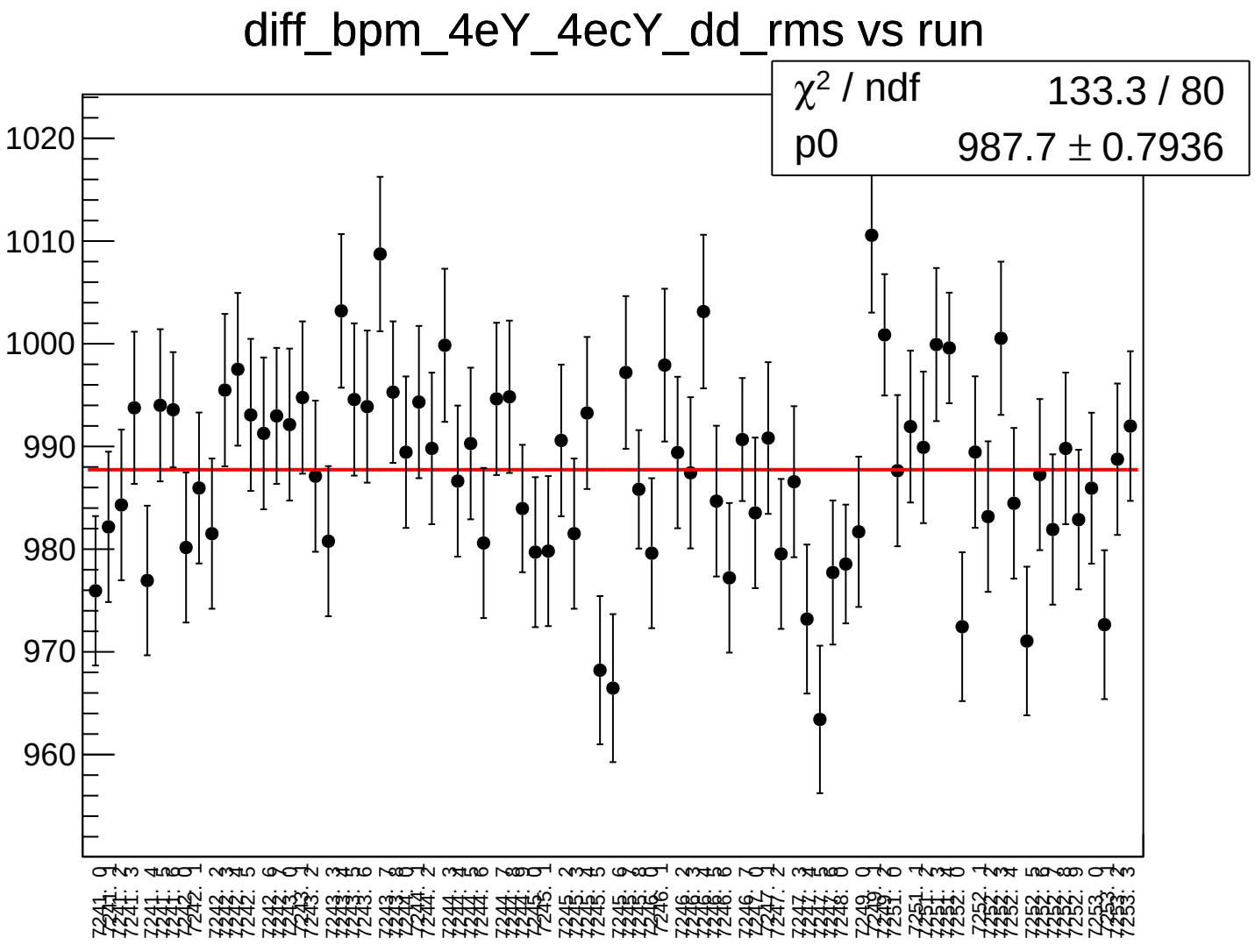

diff_bpm_4eY_4ecY_avg_mean vs run
χ² / ndf 60.67 / 80
p0 3.794 ± 6.937
200
100
0
−100
−200
pull
Entries 81
Mean −2928
Std Dev 0
2
1
0
−1
−2

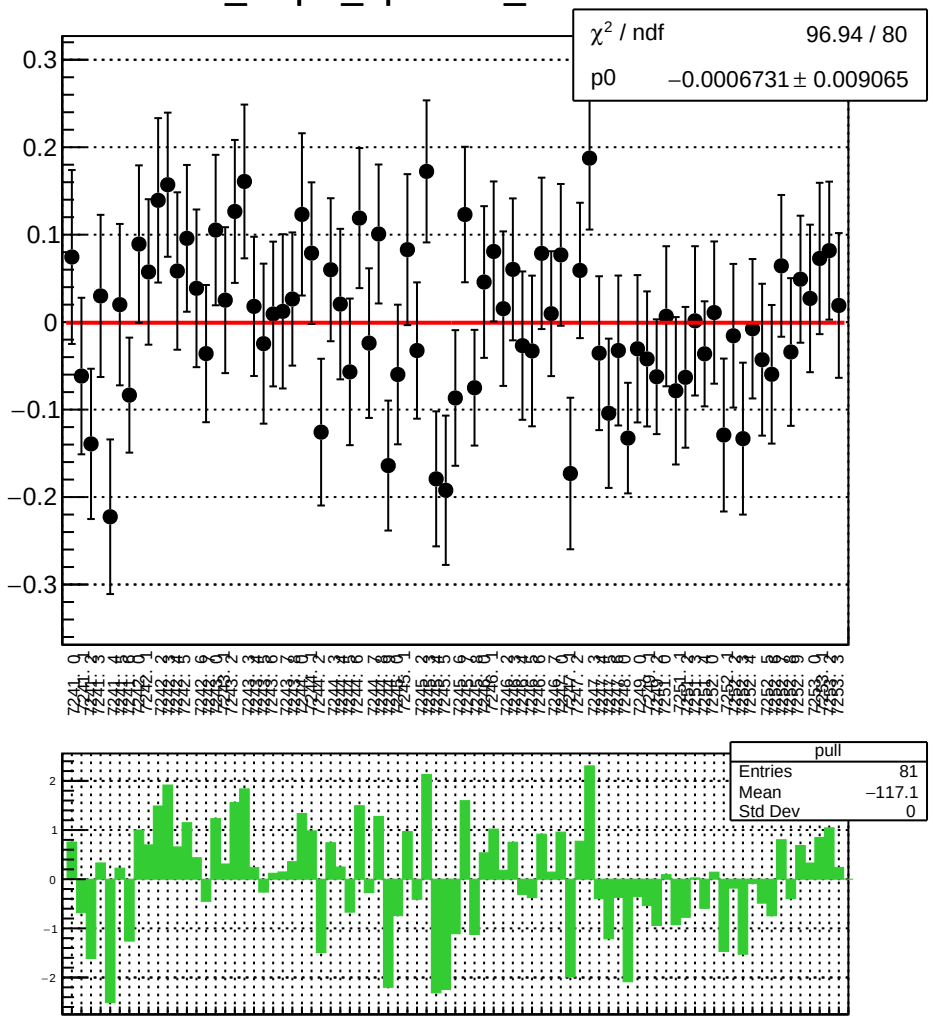

pull1D
Entries 81
Mean −0.0004367
Std Dev 0.8655
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

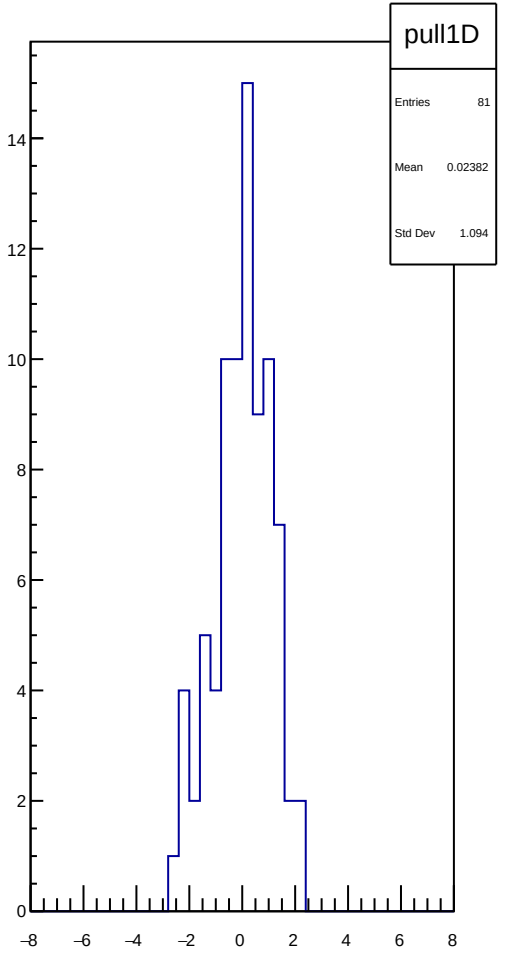

diff_bpm_4eY_4ecY_avg_rms vs run
χ^2 / ndf 4339 / 80
p0 6096 ± 4.905
7000
6800
6600
6400
6200
6000
5800
5600
5400

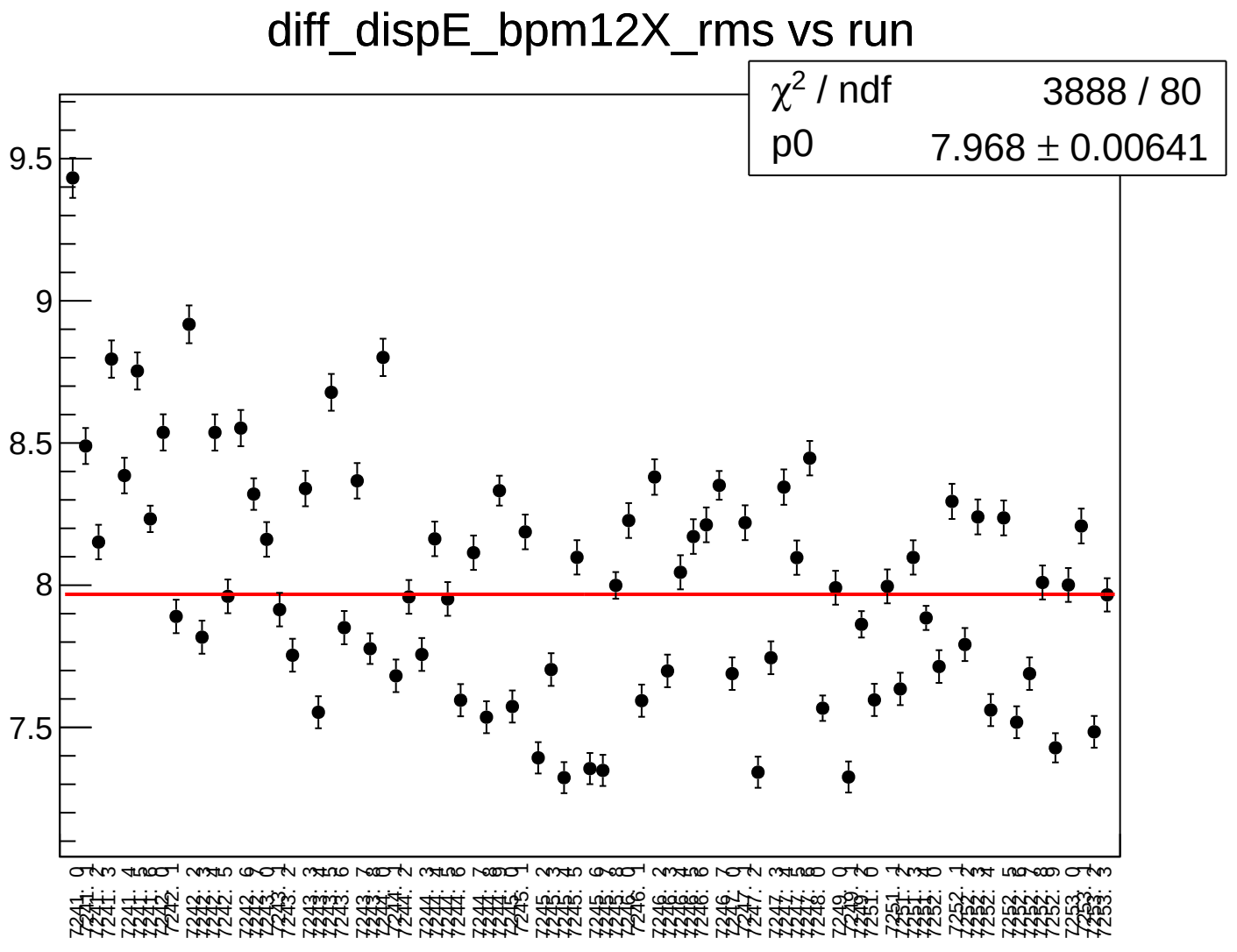

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 96.91 / 80
p0 −1.331± 1.122
pull
Entries 81
Mean 135.9
Std Dev 0

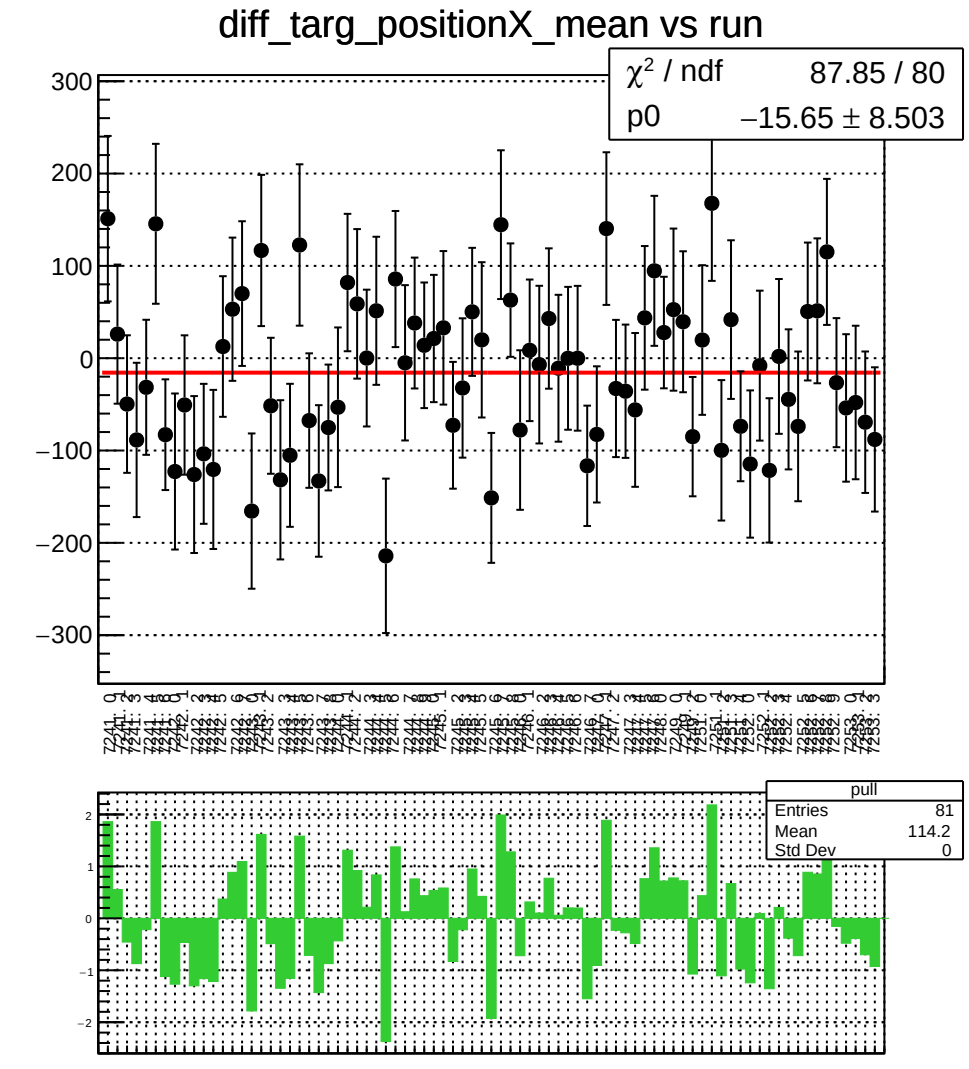

pull1D
Entries 81
Mean −0.009662
Std Dev 1.094

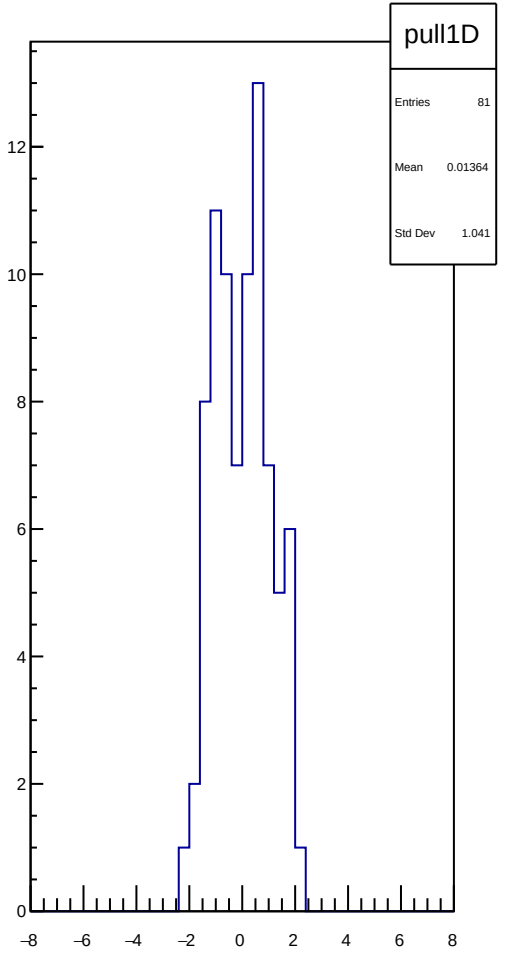

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 133.3 / 80
p0 987.7 ± 0.7936
1020
1010
1000
990
980
970
960

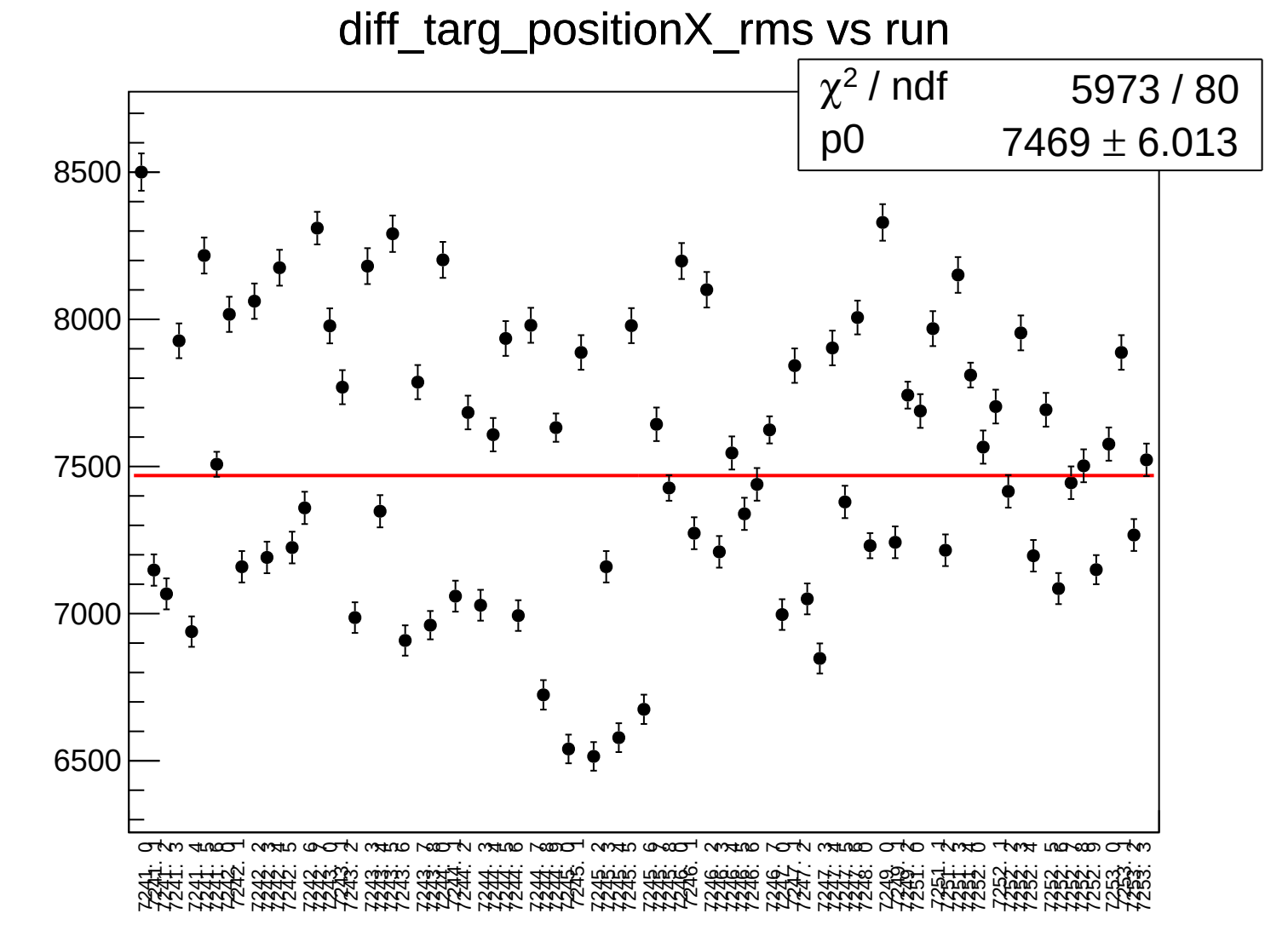

diff_dispE_bpm12X_mean vs run
χ² / ndf 96.94 / 80
p0 −0.0006731 ± 0.009065
pull
Entries 81
Mean −117.1
Std Dev 0

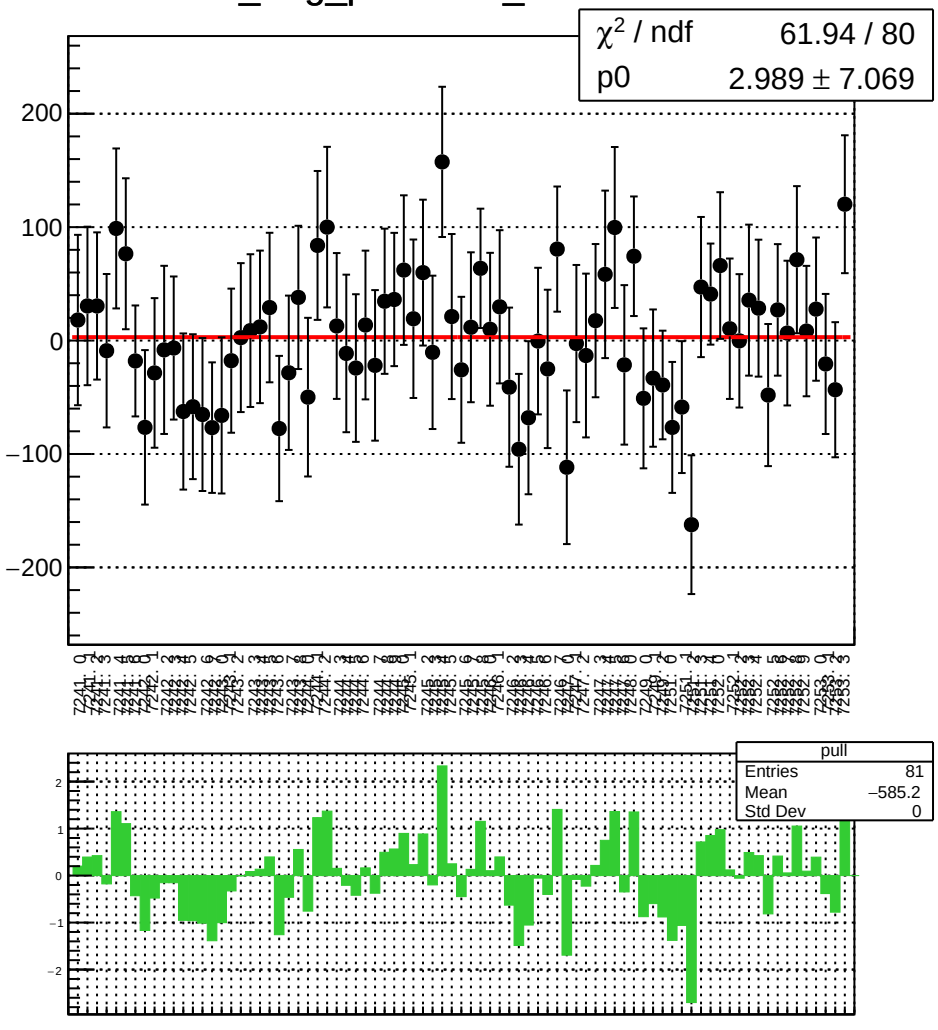

pull1D
Entries 81
Mean 0.02382
Std Dev 1.094

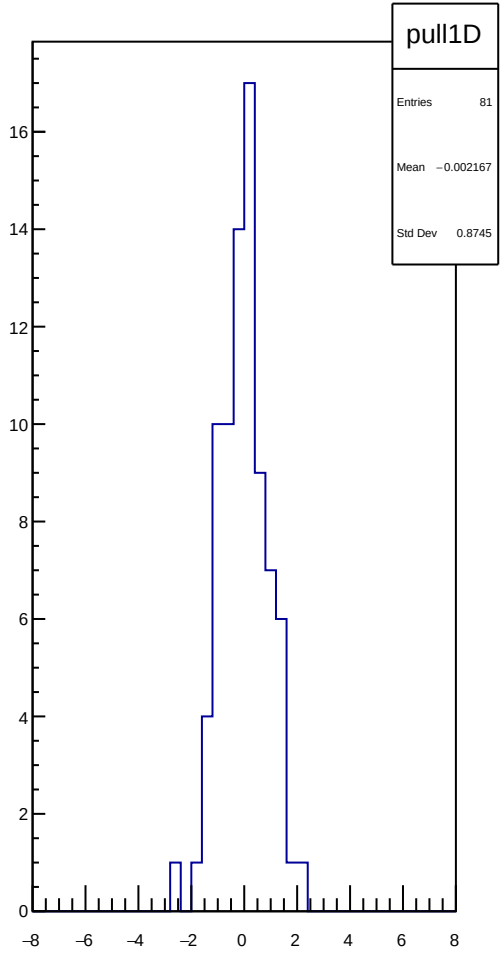

diff_dispE_bpm12X_rms vs run
χ^2 / ndf 3888 / 80
p0 7.968 ± 0.00641
9.5
9
8.5
8
7.5

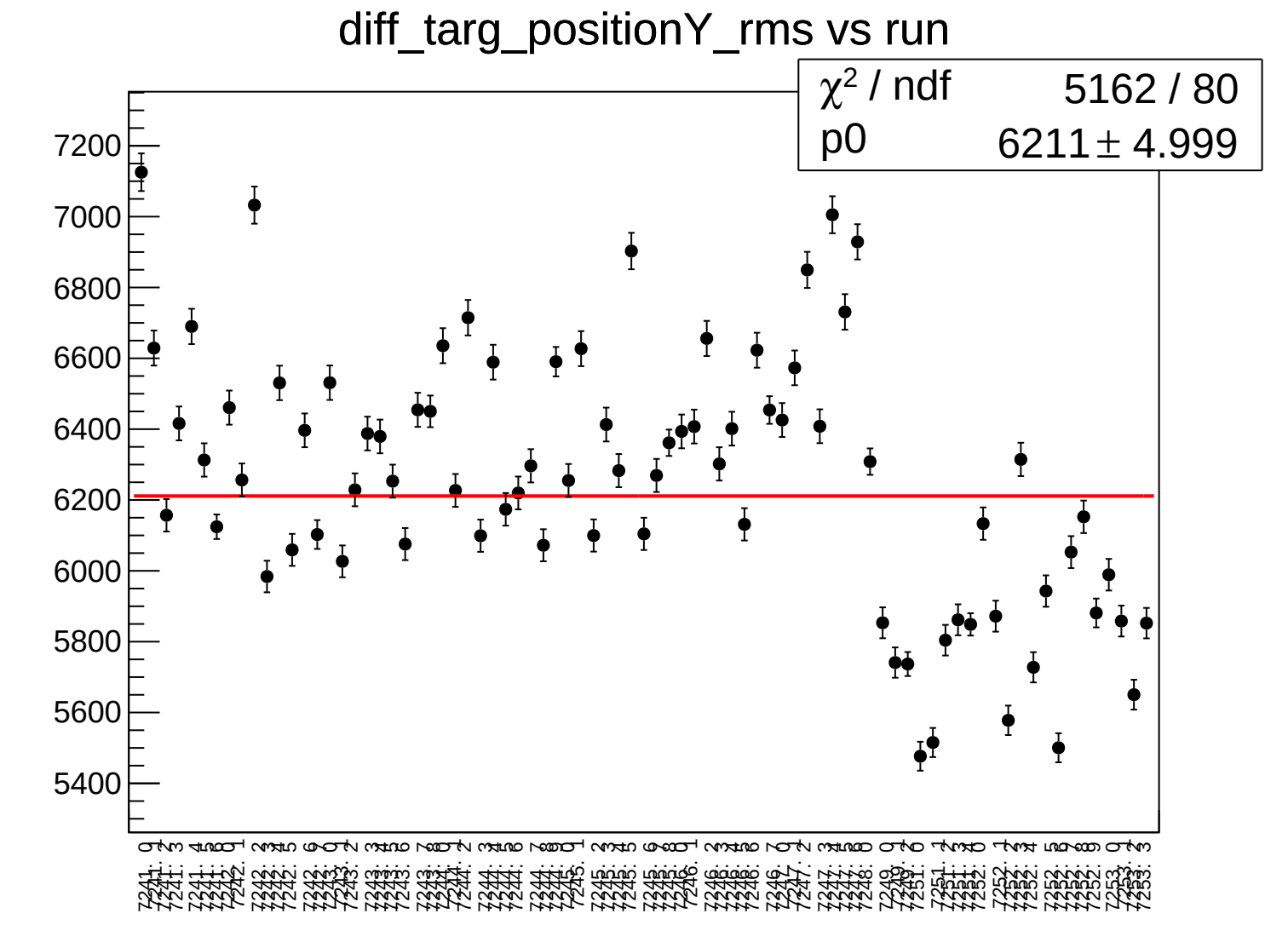

diff_targ_positionX_mean vs run
χ² / ndf 87.85 / 80
p0 −15.65 ± 8.503
pull
Entries 81
Mean 114.2
Std Dev 0

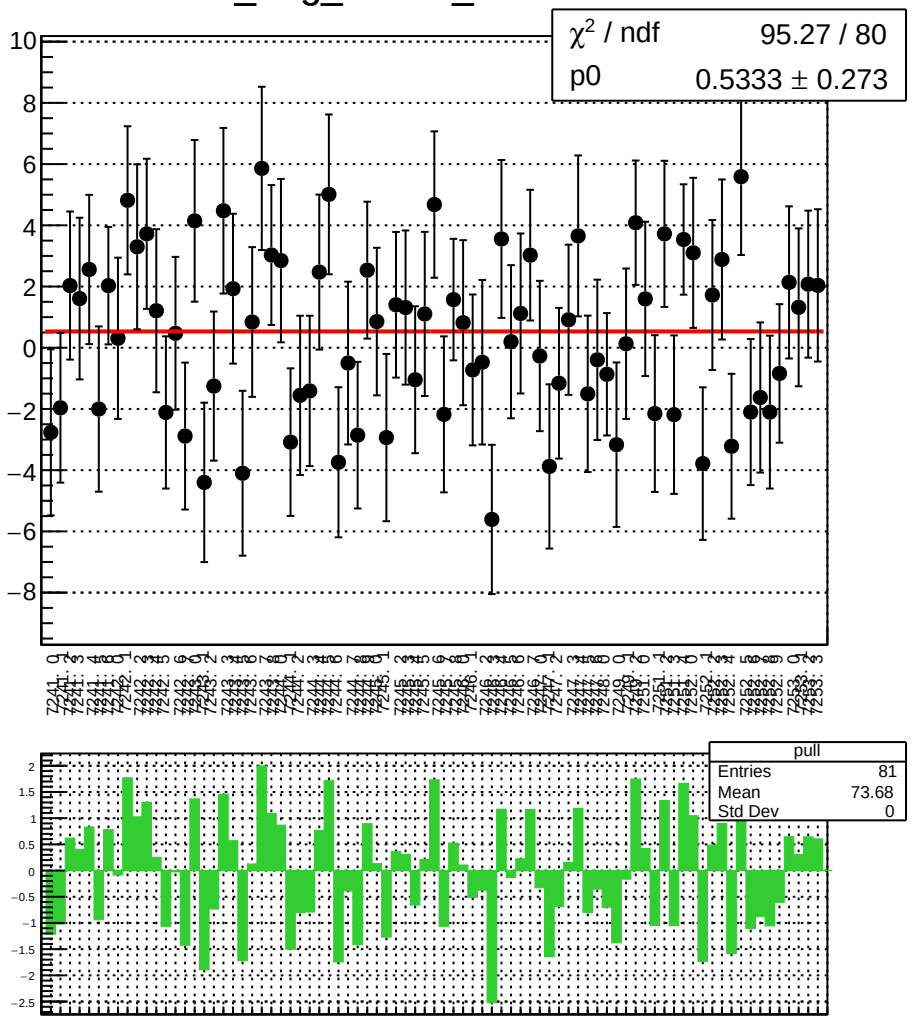

pull1D
Entries 81
Mean 0.01364
Std Dev 1.041

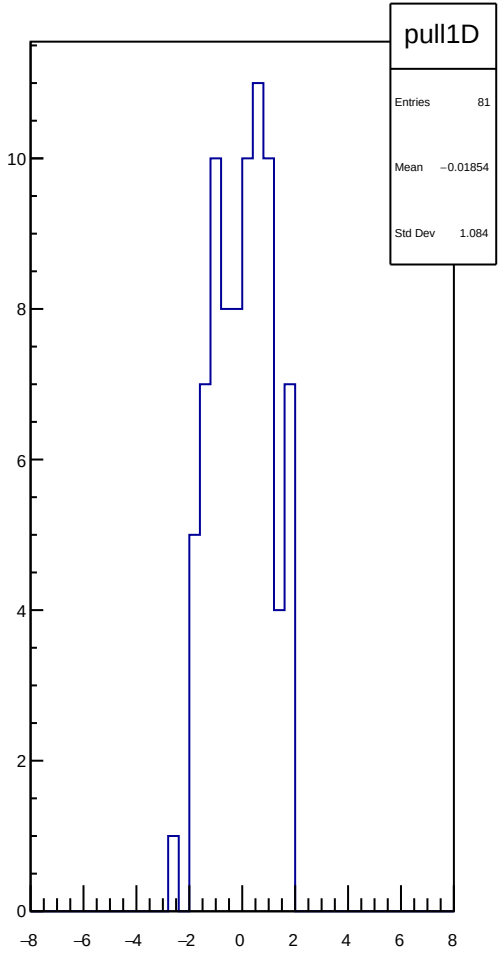

diff_targ_positionX_rms vs run
χ² / ndf 5973 / 80
p0 7469 ± 6.013
8500
8000
7500
7000
6500

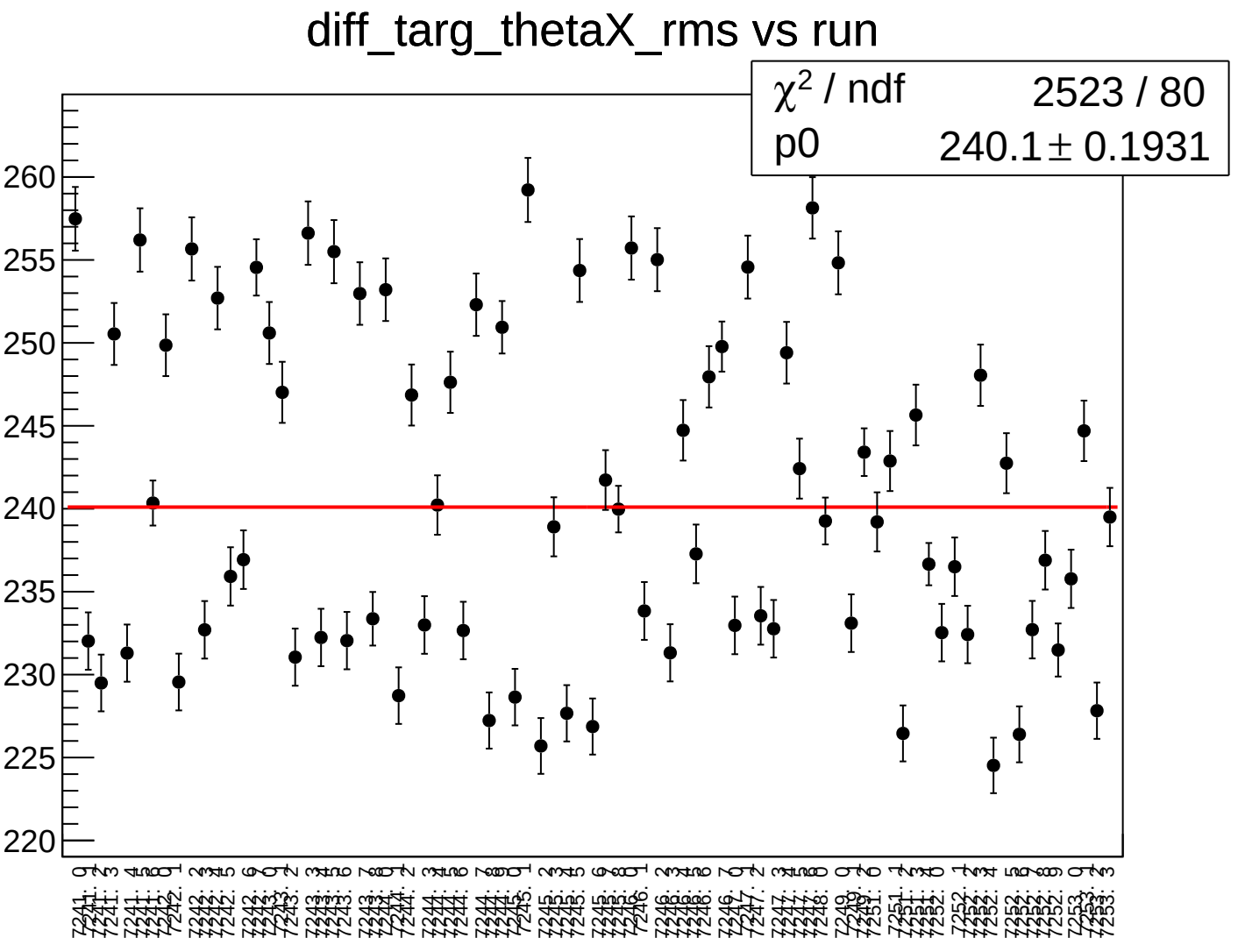

diff_targ_positionY_mean vs run
χ² / ndf 61.94 / 80
p0 2.989 ± 7.069
200
100
0
−100
−200
pull
Entries 81
Mean −585.2
Std Dev 0
2
1
0
−1
−2

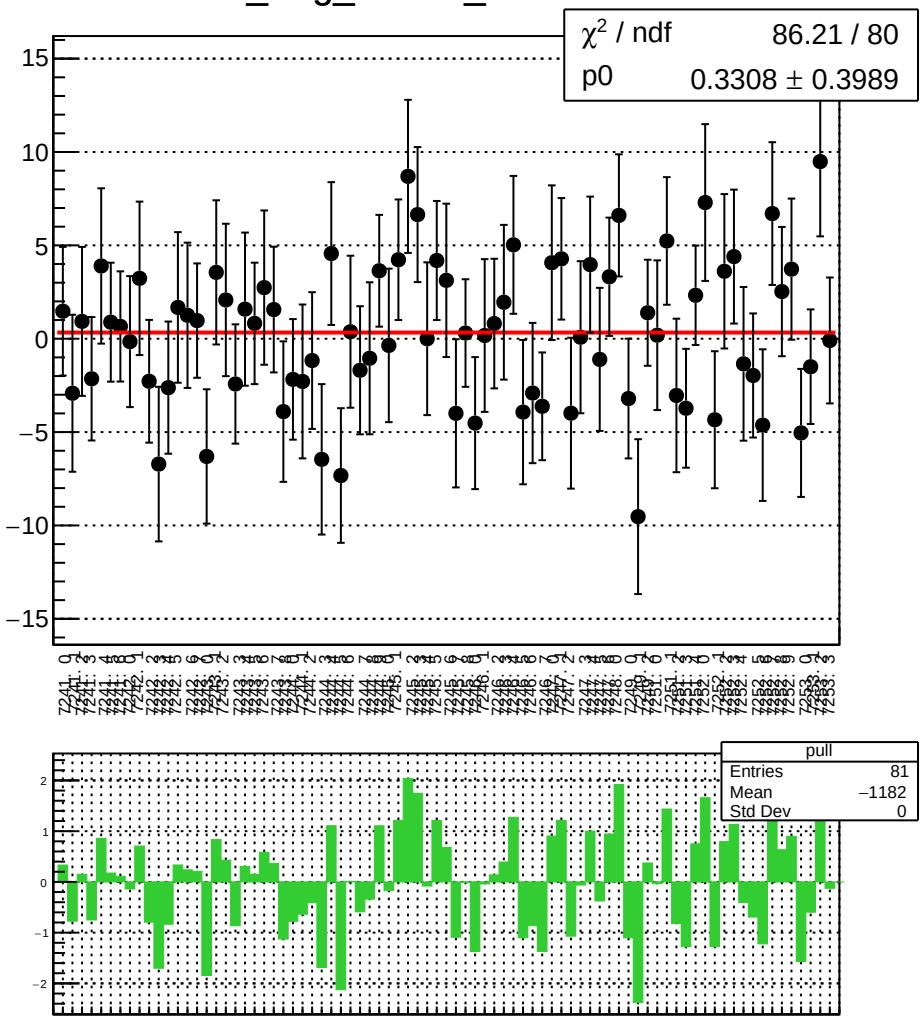

pull1D
Entries 81
Mean −0.002167
Std Dev 0.8745
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

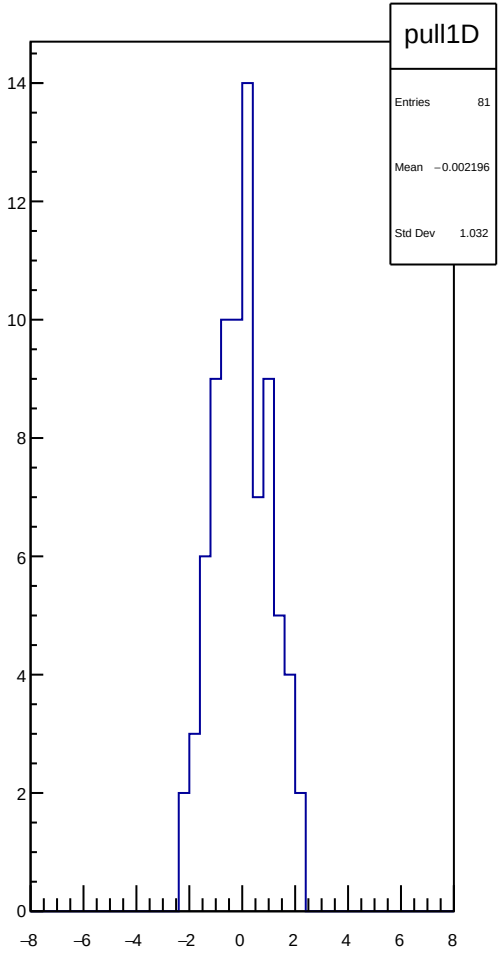

diff_targ_positionY_rms vs run
χ² / ndf 5162 / 80
p0 6211 ± 4.999
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400

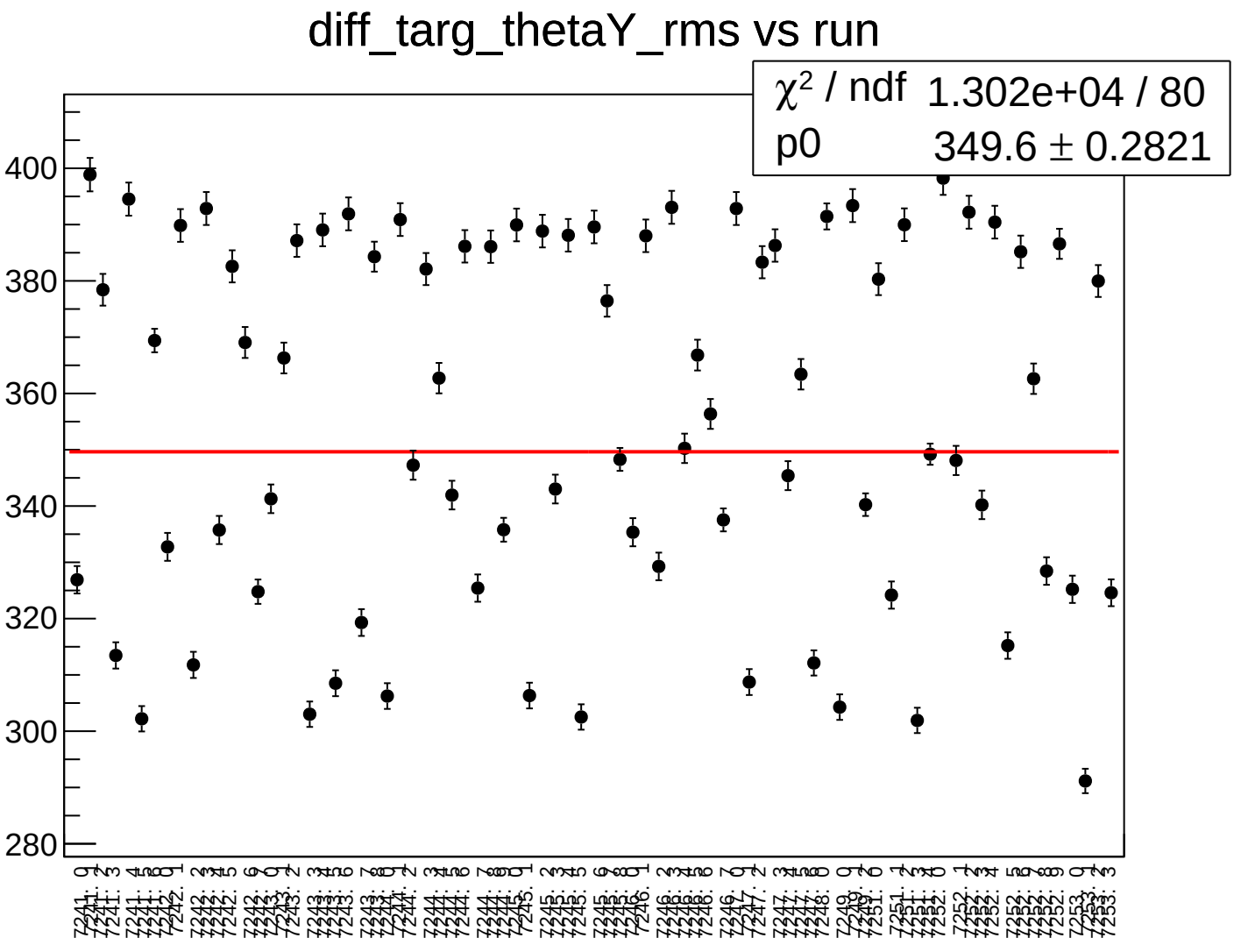

diff_targ_thetaX_mean vs run
χ² / ndf 95.27 / 80
p0 0.5333 ± 0.273
pull
Entries 81
Mean 73.68
Std Dev 0

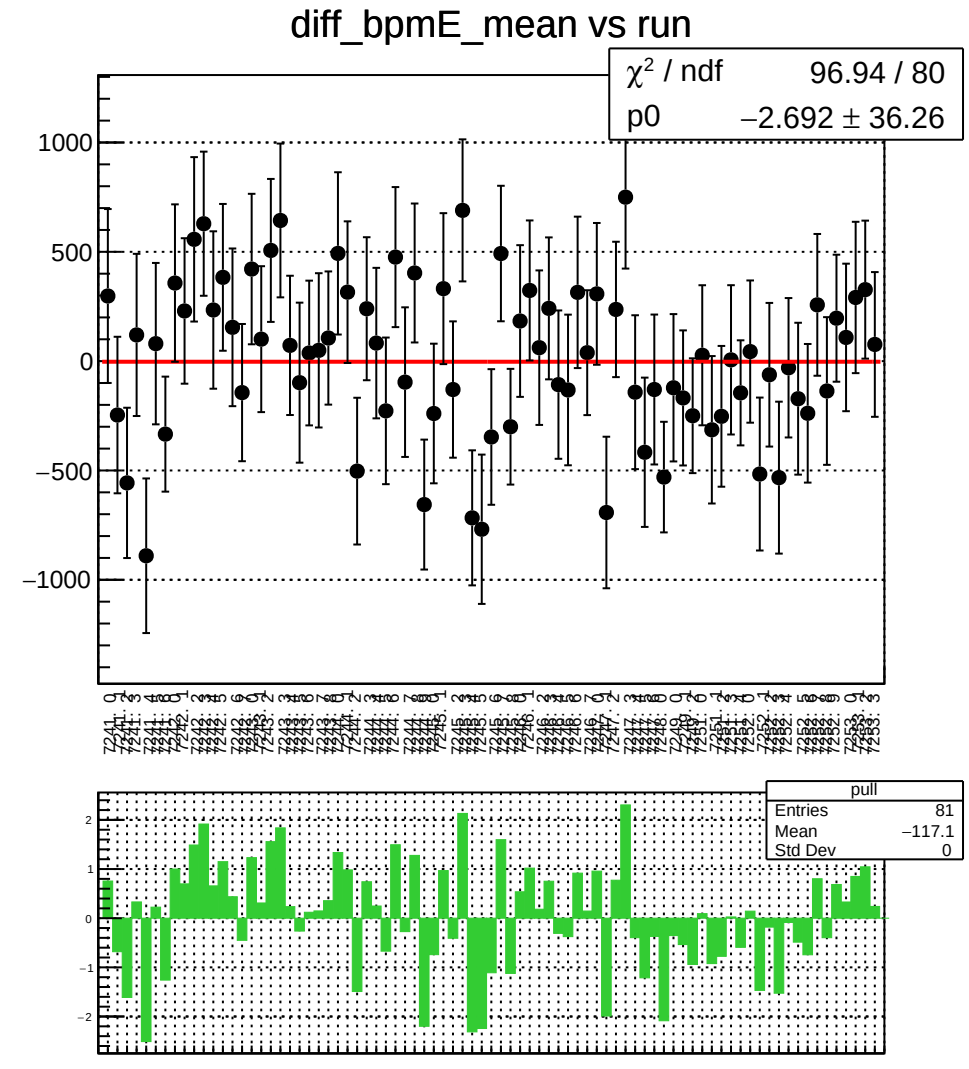

pull1D
Entries 81
Mean −0.01854
Std Dev 1.084

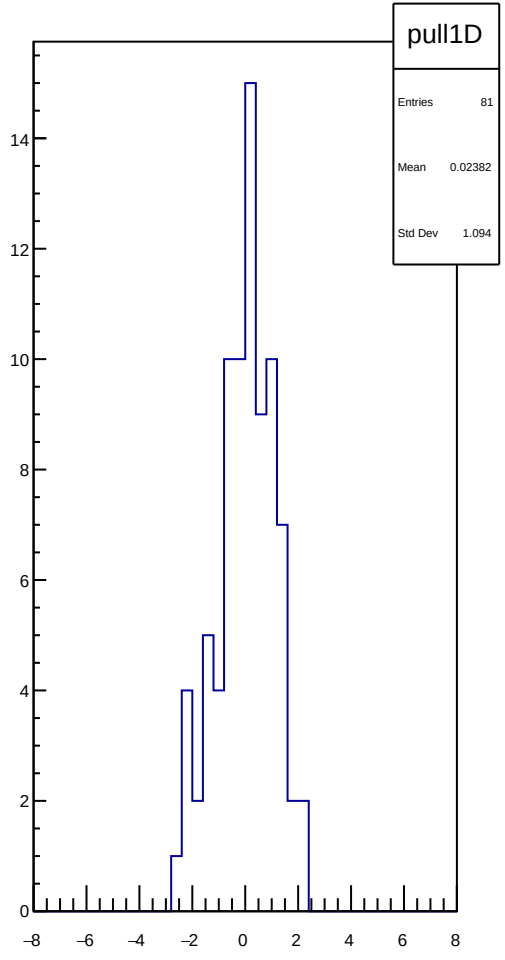

diff_targ_thetaX_rms vs run
χ^2 / ndf 2523 / 80
p0 240.1 ± 0.1931
260
255
250
245
240
235
230
225
220

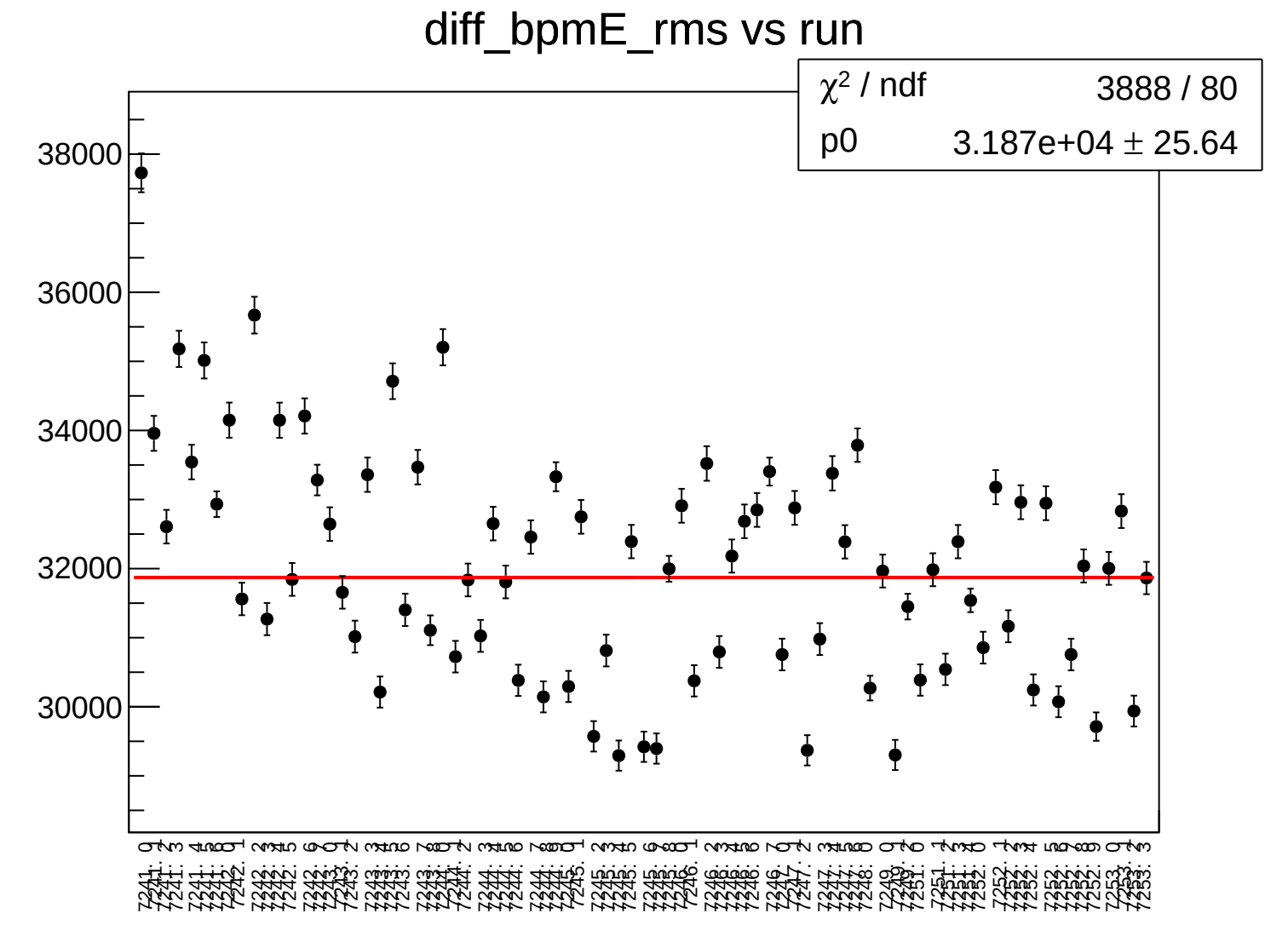

diff_targ_thetaY_mean vs run
χ² / ndf 86.21 / 80
p0 0.3308 ± 0.3989
pull
Entries 81
Mean −1182
Std Dev 0

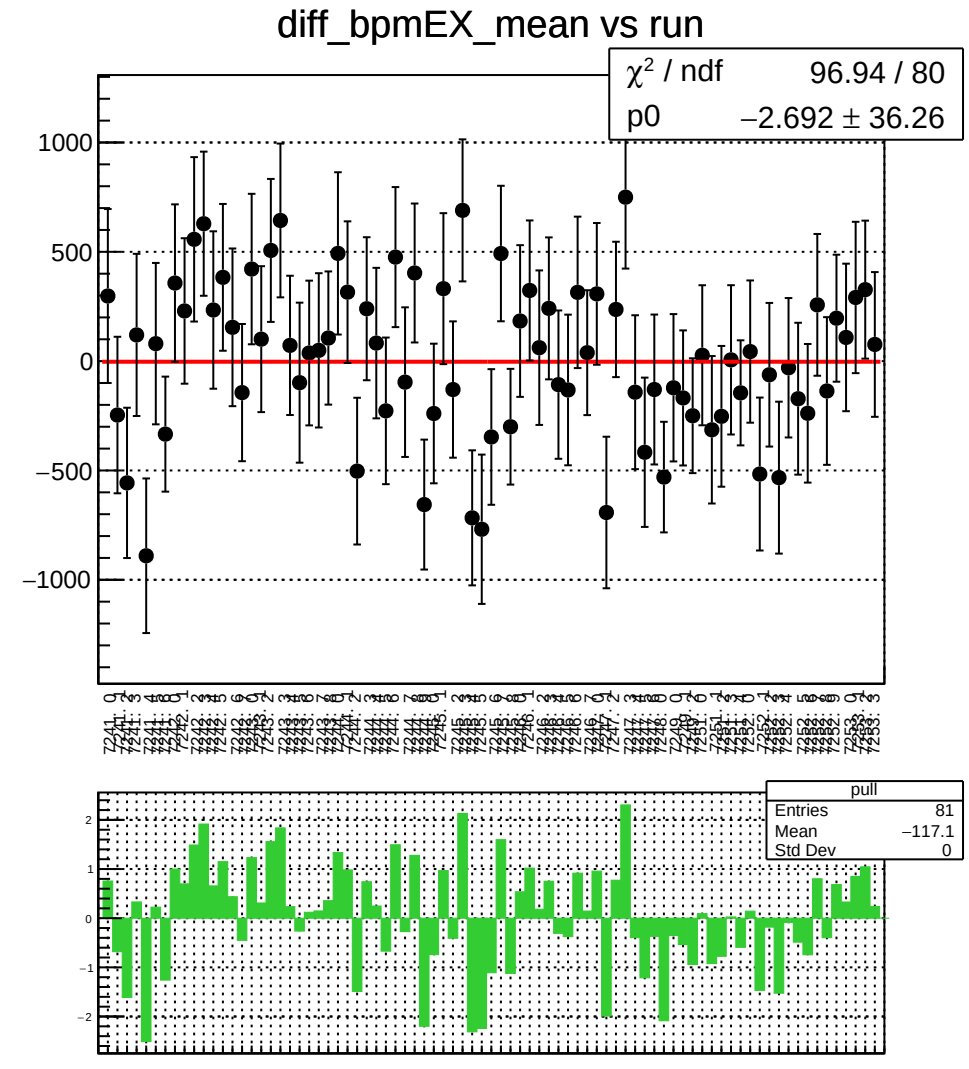

pull1D
Entries 81
Mean −0.002196
Std Dev 1.032

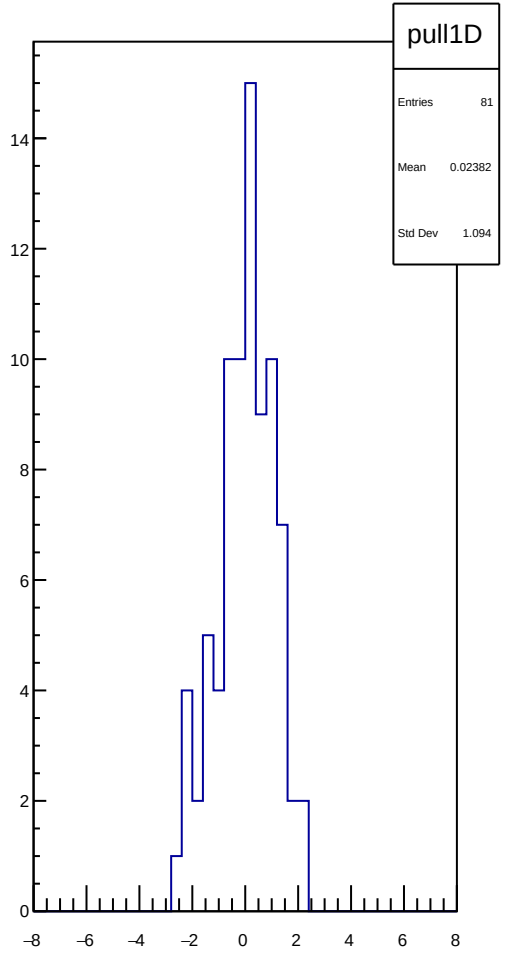

diff_targ_thetaY_rms vs run
χ² / ndf 1.302e+04 / 80
p0 349.6 ± 0.2821
400
380
360
340
320
300
280

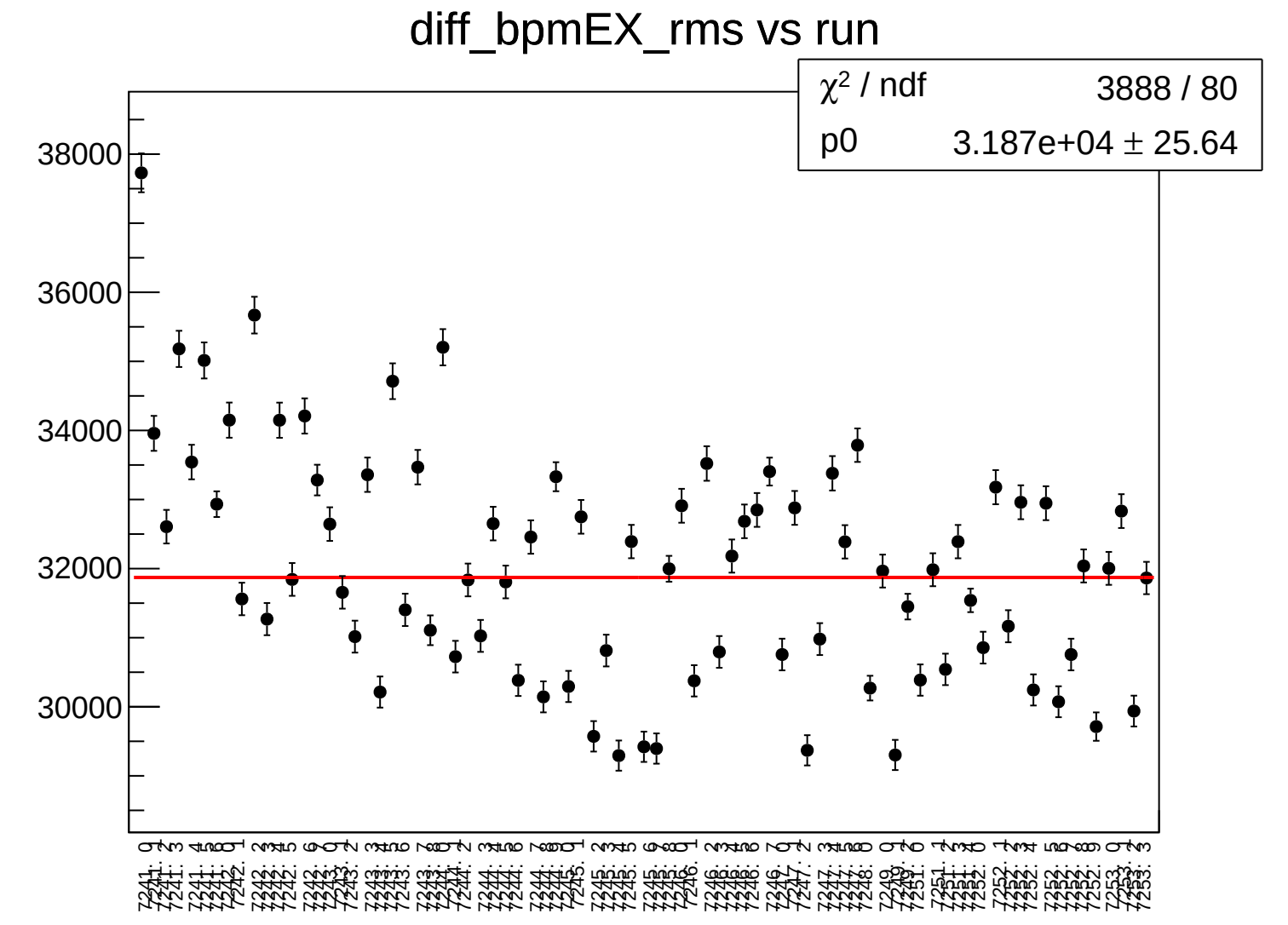

diff_bpmE_mean vs run
χ^2 / ndf 96.94 / 80
p0 −2.692 ± 36.26
1000
500
0
−500
−1000
pull
Entries 81
Mean −117.1
Std Dev 0
2
1
0
−1
−2

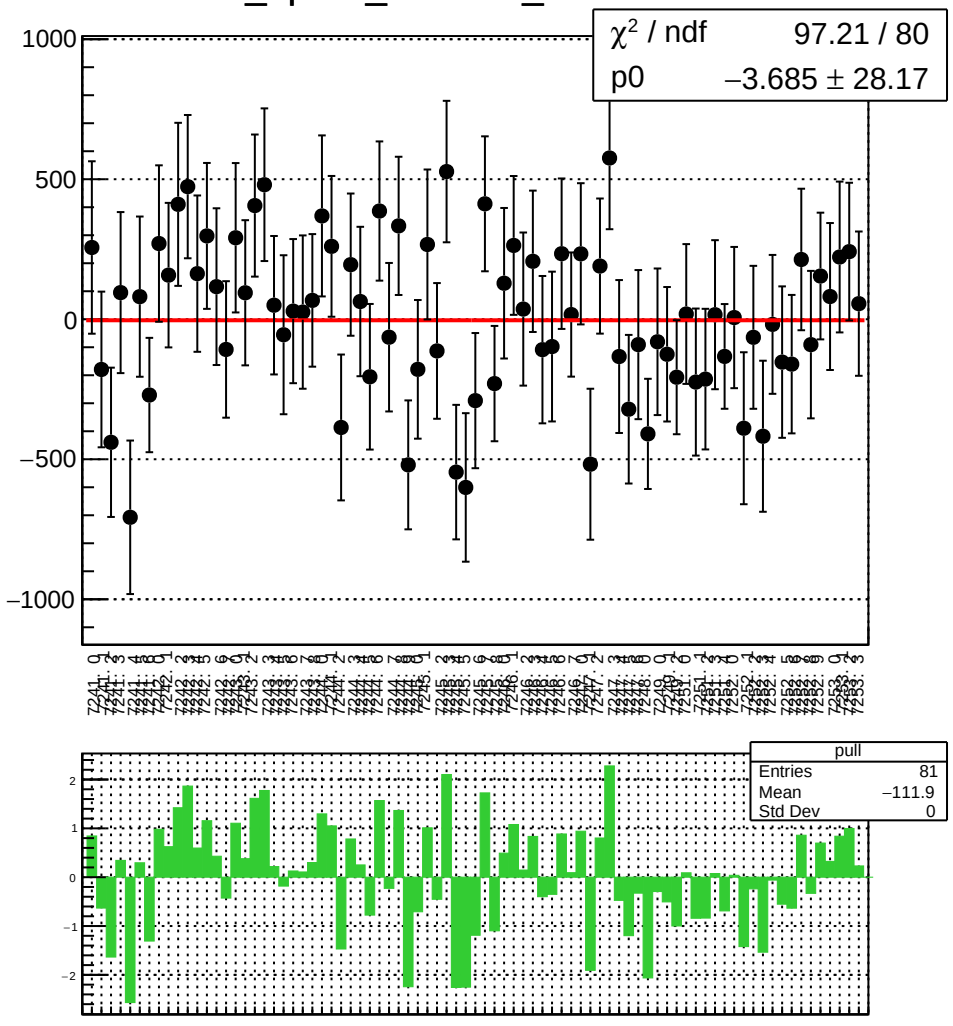

pull1D
Entries 81
Mean 0.02382
Std Dev 1.094
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

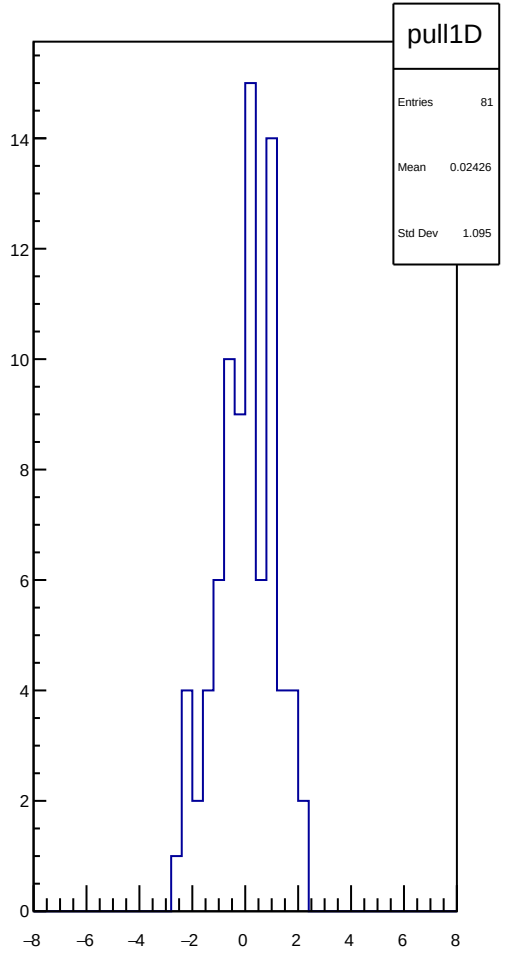

diff_bpmE_rms vs run
χ² / ndf 3888 / 80
p0 3.187e+04 ± 25.64
38000
36000
34000
32000
30000

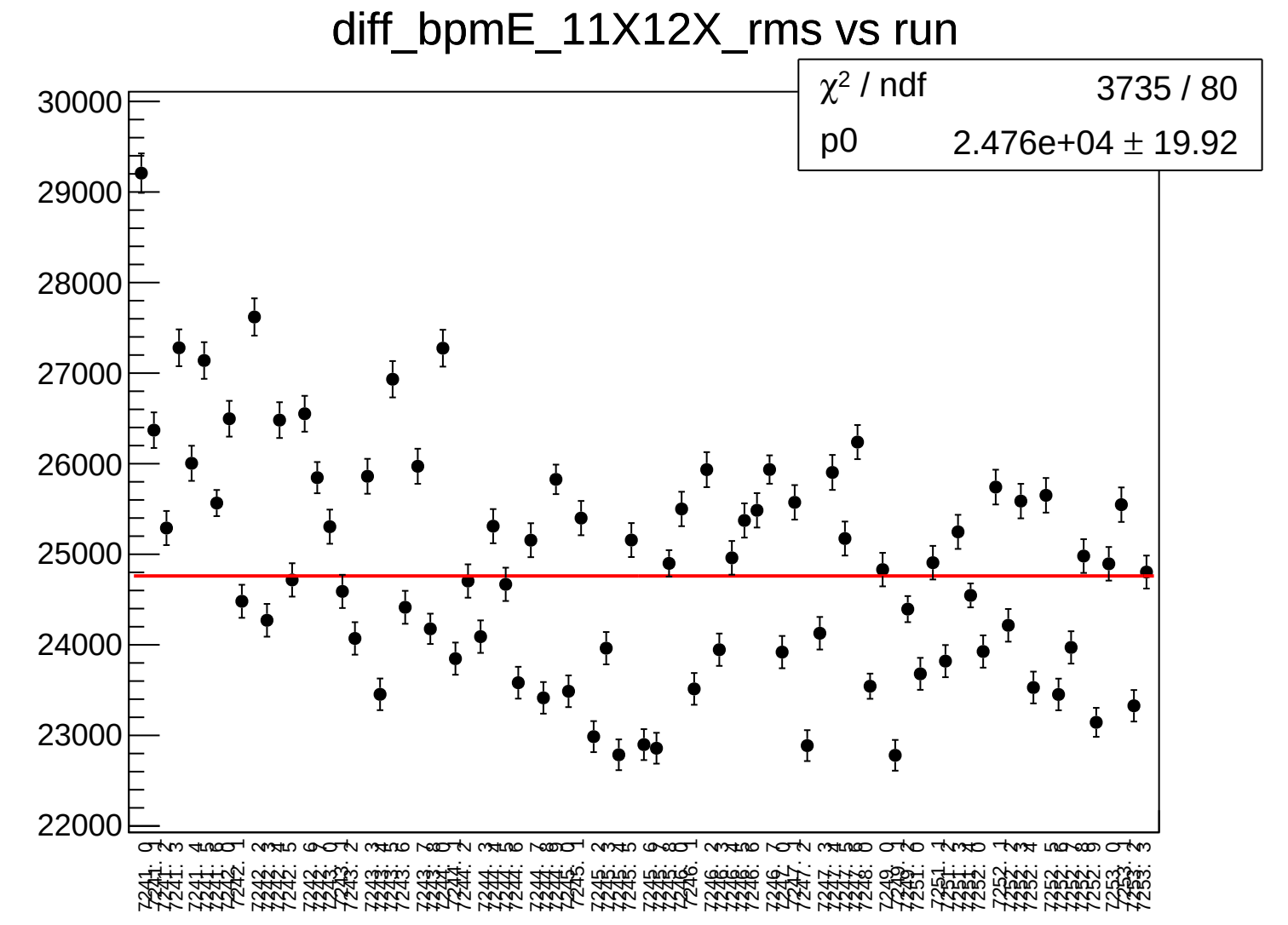

diff_bpmEX_mean vs run
χ² / ndf 96.94 / 80
p0 −2.692 ± 36.26
1000
500
0
−500
−1000
pull
Entries 81
Mean −117.1
Std Dev 0
2
1
0
−1
−2

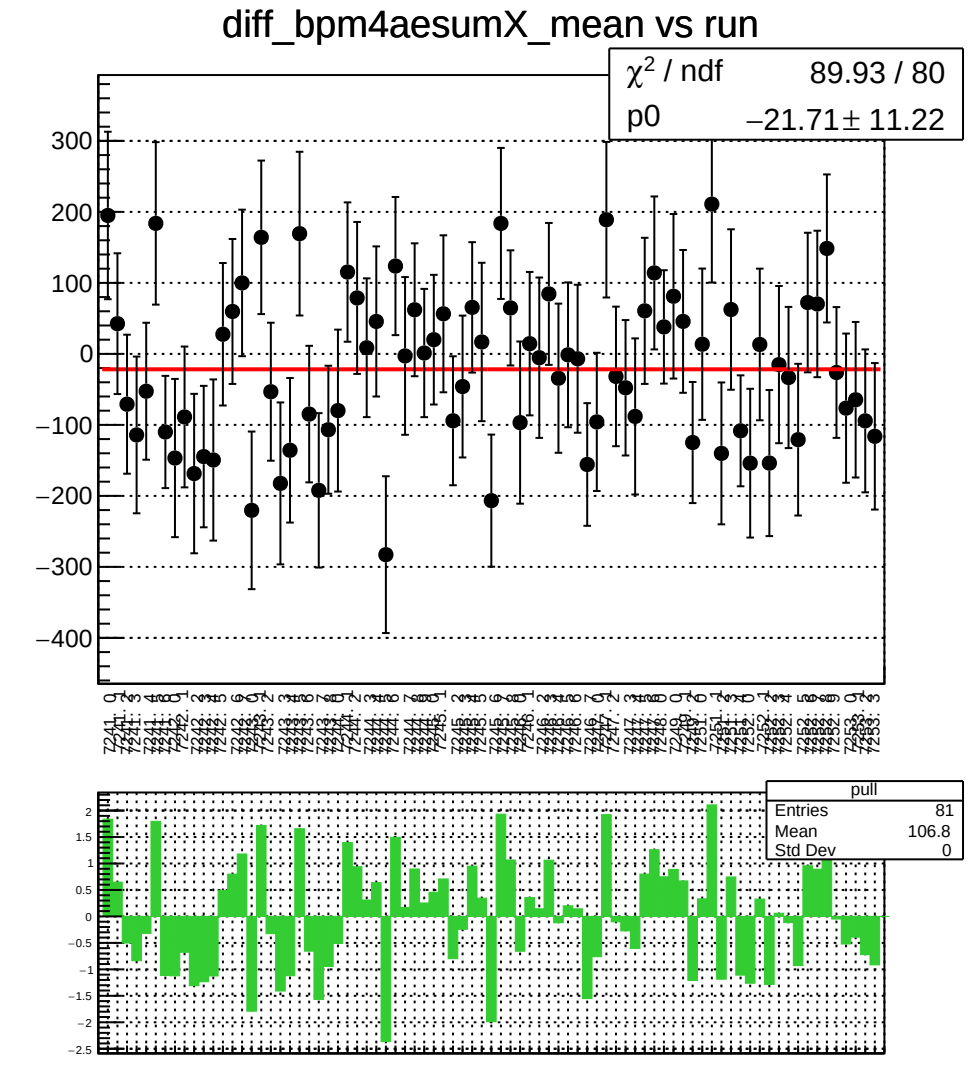

pull1D
Entries 81
Mean 0.02382
Std Dev 1.094
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

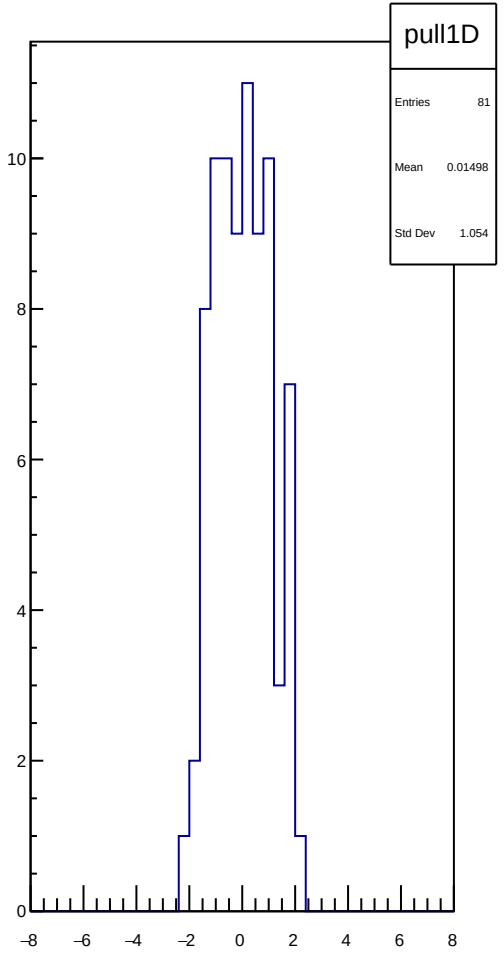

diff_bpmEX_rms vs run
χ² / ndf 3888 / 80
p0 3.187e+04 ± 25.64
38000
36000
34000
32000
30000

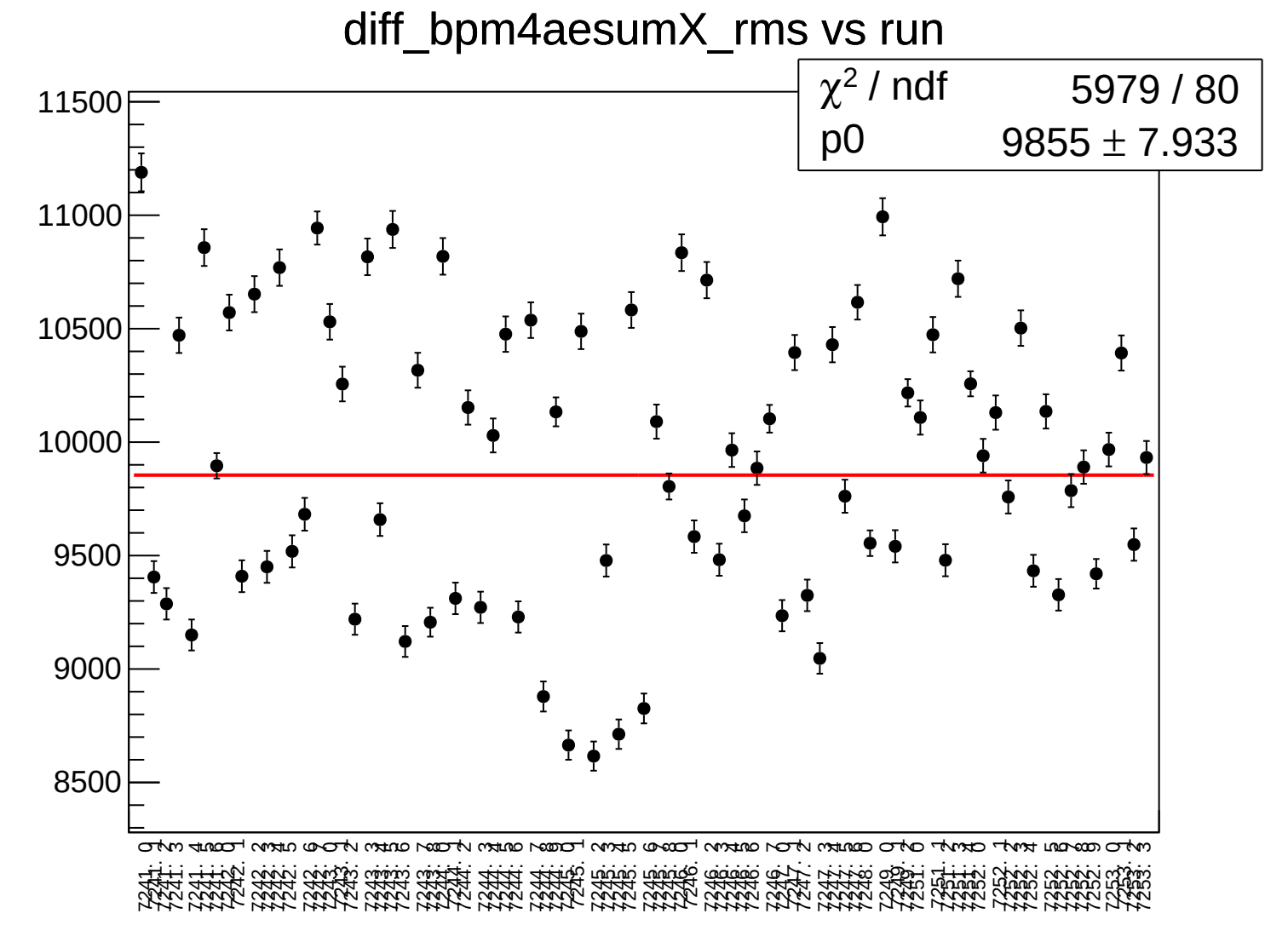

diff_bpmE_11X12X_mean vs run
χ² / ndf 97.21 / 80
p0 −3.685 ± 28.17
1000
500
0
−500
−1000
pull
Entries 81
Mean −111.9
Std Dev 0
2
1
0
−1
−2

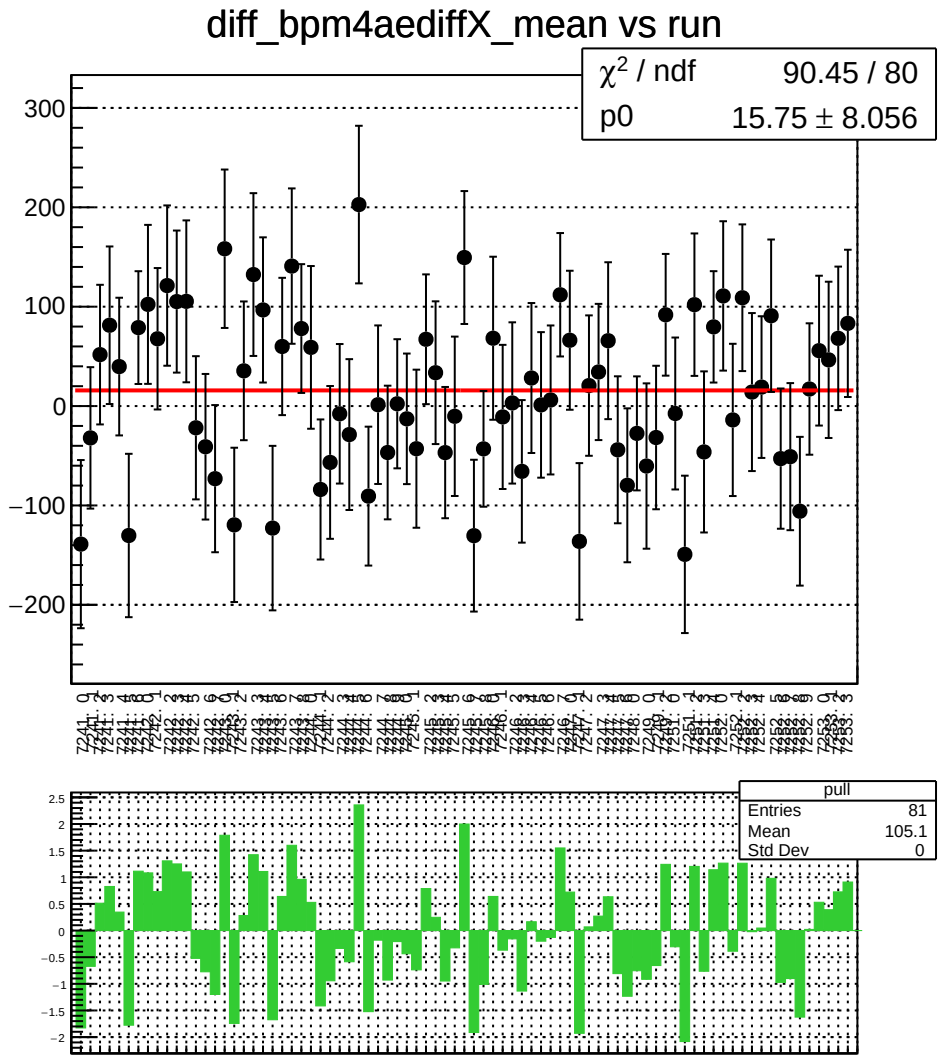

pull1D
Entries 81
Mean 0.02426
Std Dev 1.095
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

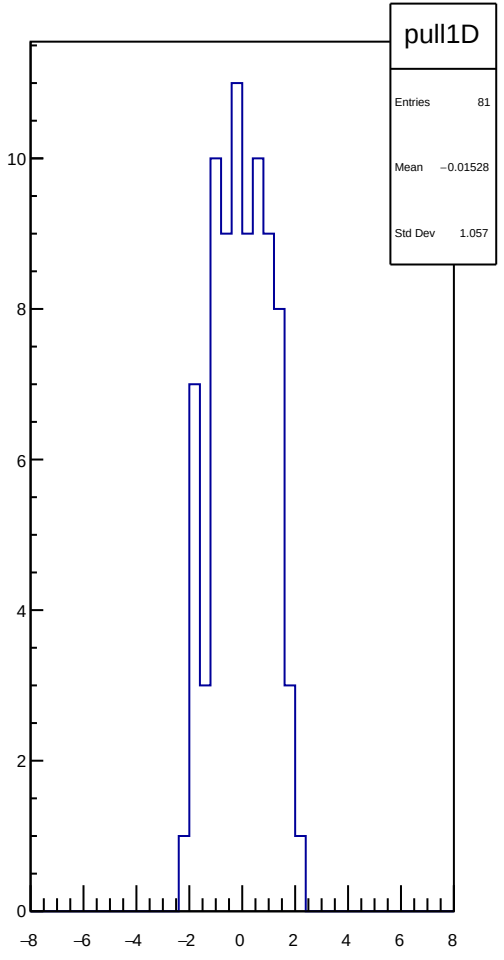

diff_bpmE_11X12X_rms vs run
χ² / ndf 3735 / 80
p0 2.476e+04 ± 19.92
30000
29000
28000
27000
26000
25000
24000
23000
22000

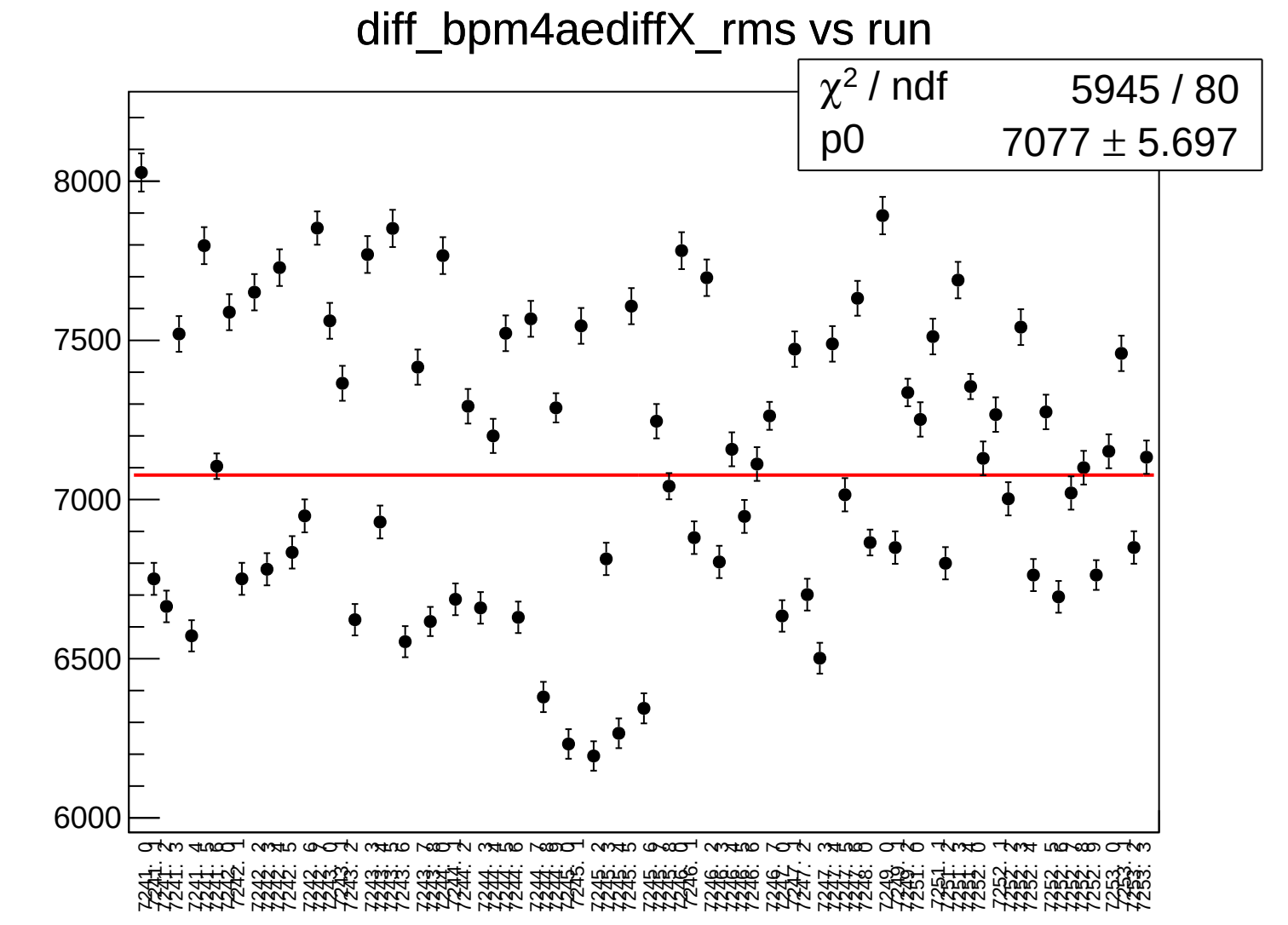

diff_bpm4aesumX_mean vs run
χ² / ndf 89.93 / 80
p0 −21.71 ± 11.22
pull
Entries 81
Mean 106.8
Std Dev 0

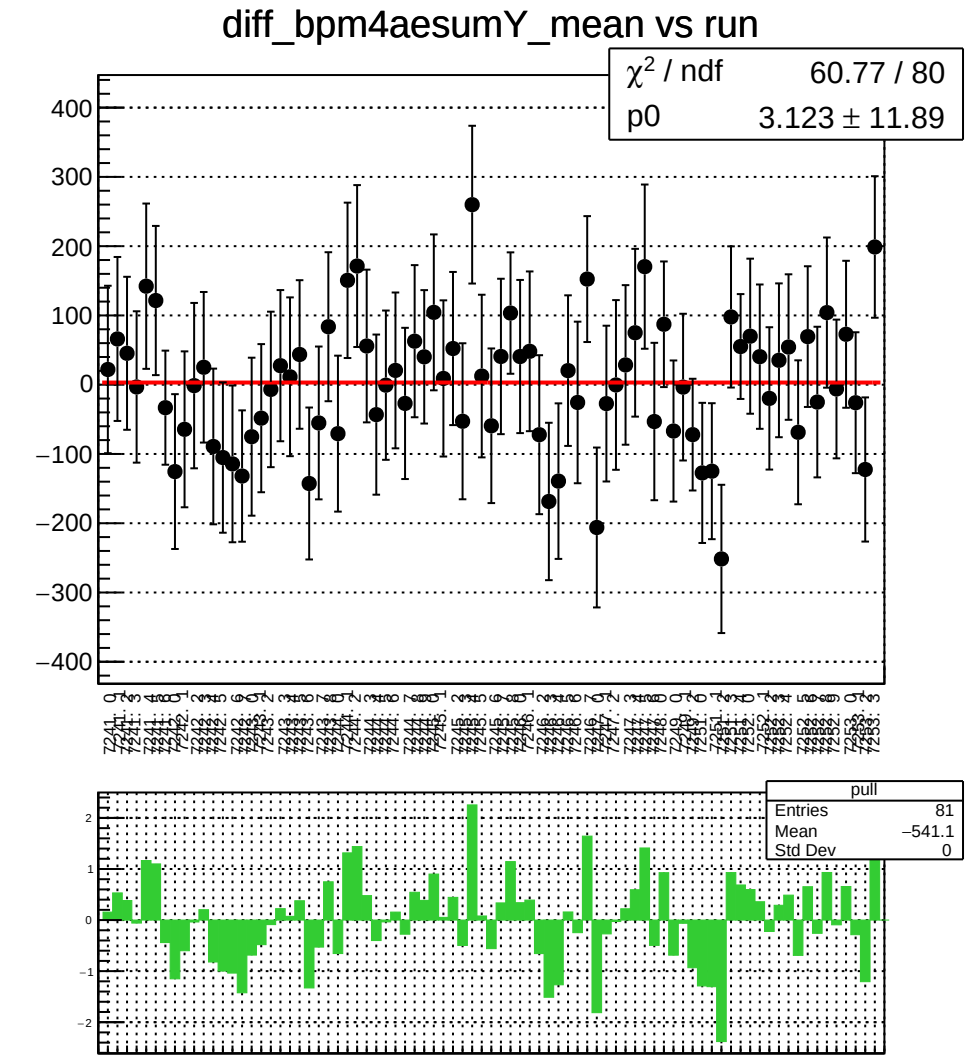

pull1D
Entries 81
Mean 0.01498
Std Dev 1.054

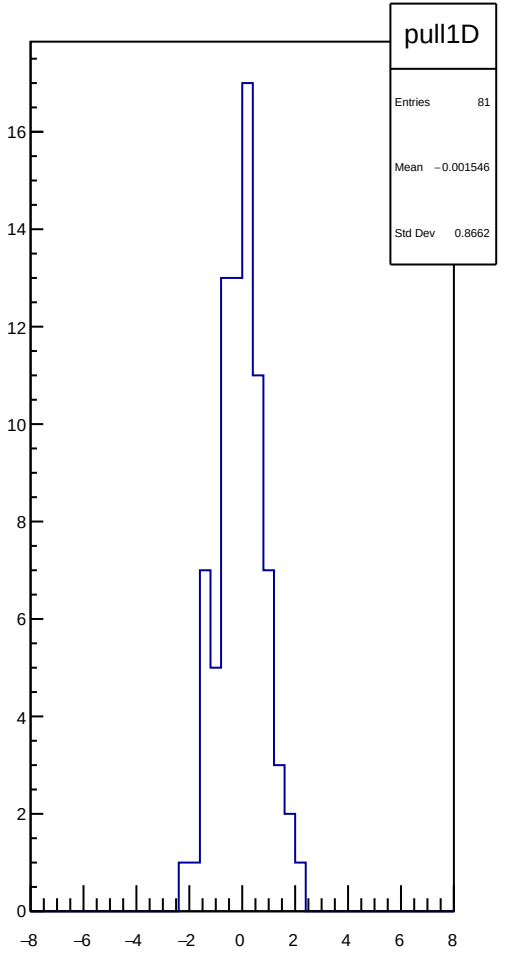

diff_bpm4aesumX_rms vs run
χ² / ndf 5979 / 80
p0 9855 ± 7.933
11500
11000
10500
10000
9500
9000
8500

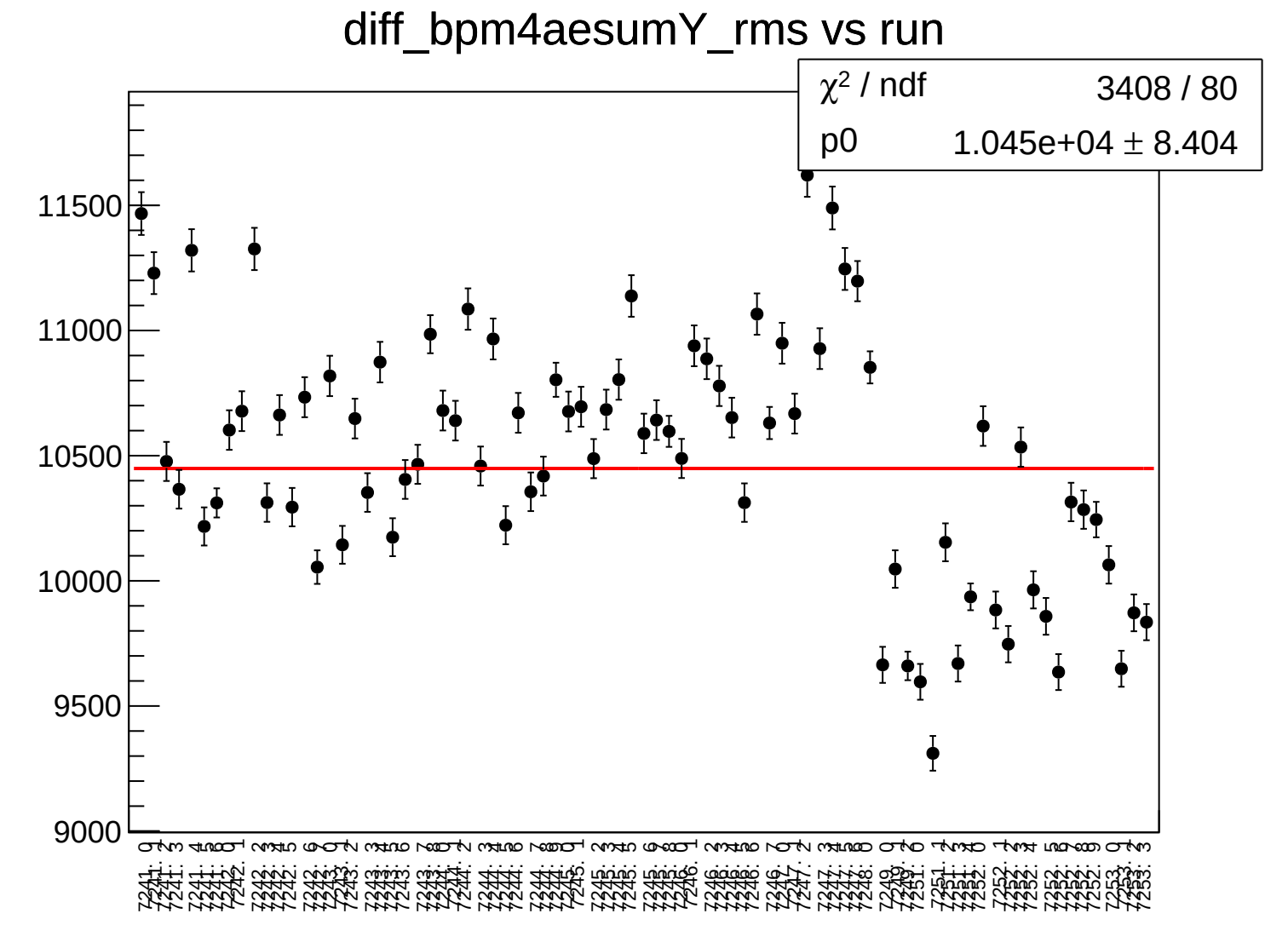

diff_bpm4aediffX_mean vs run
χ² / ndf 90.45 / 80
p0 15.75 ± 8.056
pull
Entries 81
Mean 105.1
Std Dev 0

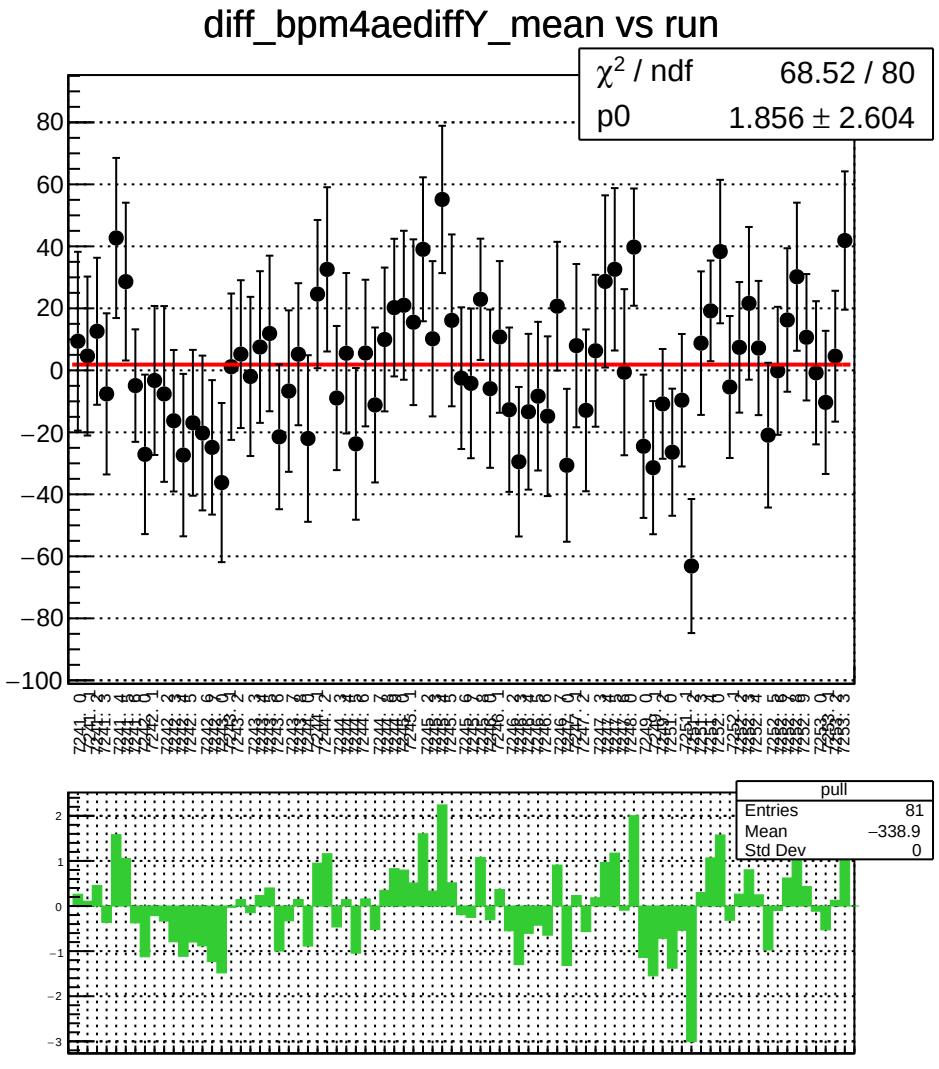

pull1D
Entries 81
Mean −0.01528
Std Dev 1.057

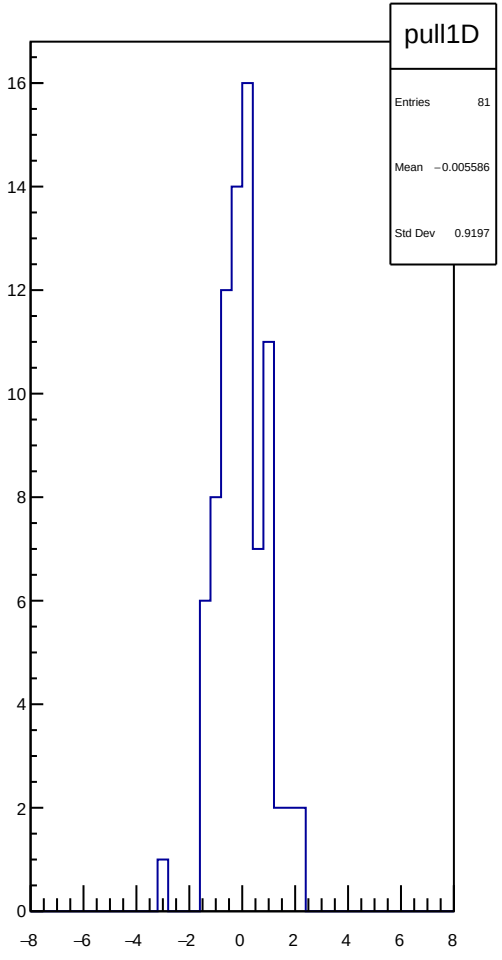

diff_bpm4aediffX_rms vs run
χ² / ndf 5945 / 80
p0 7077 ± 5.697
8000
7500
7000
6500
6000

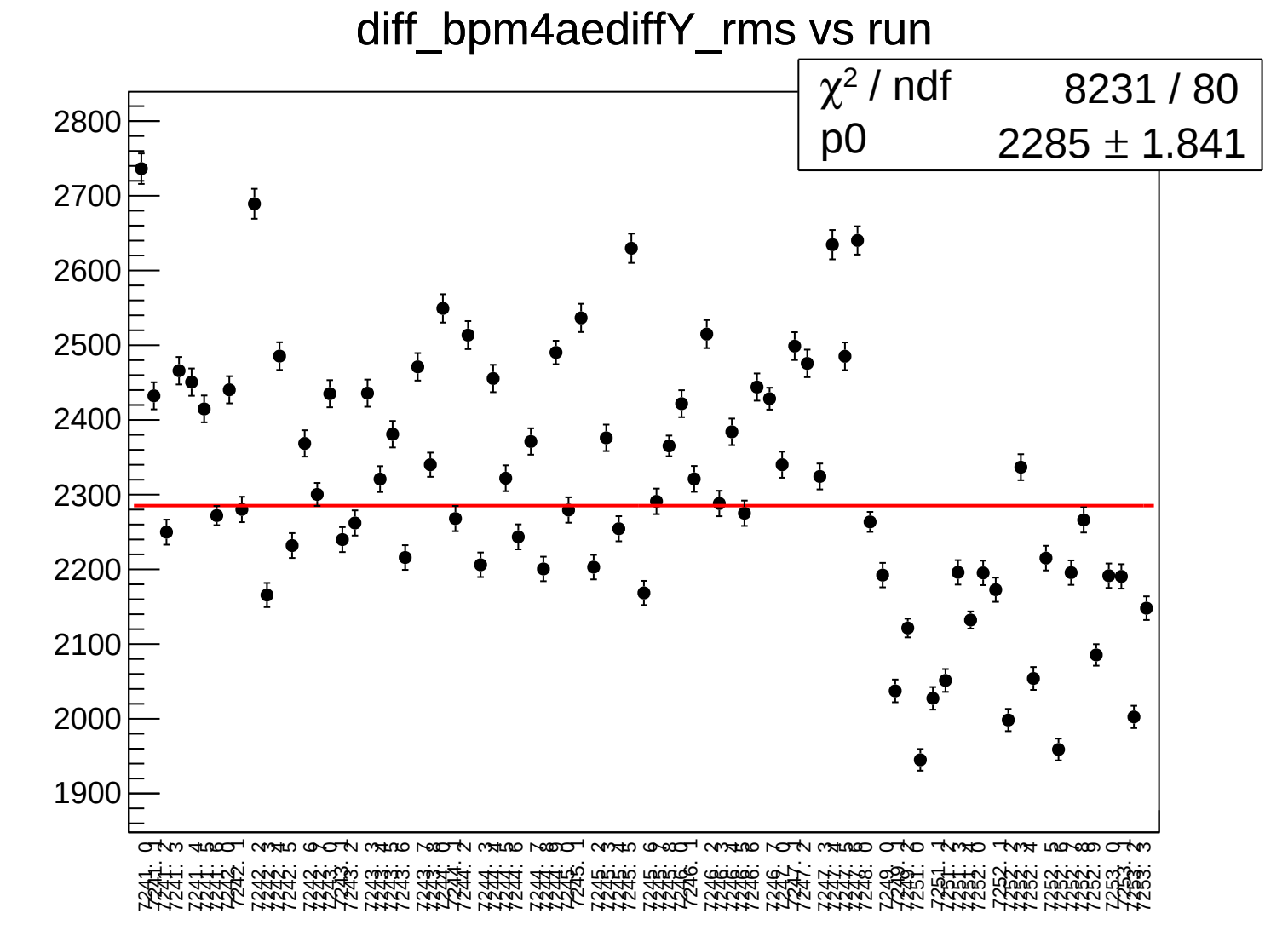

diff_bpm4aesumY_mean vs run
χ² / ndf 60.77 / 80
p0 3.123 ± 11.89
pull
Entries 81
Mean −541.1
Std Dev 0

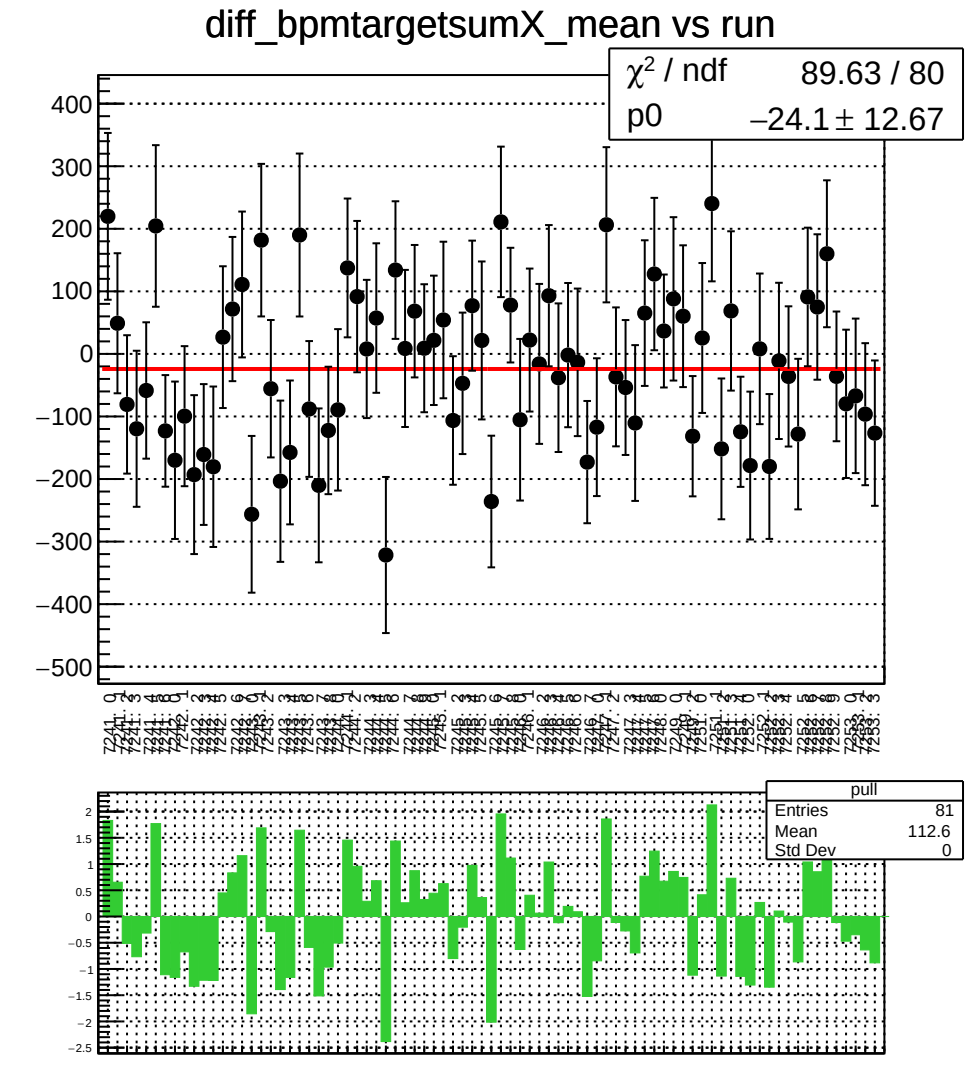

pull1D
Entries 81
Mean −0.001546
Std Dev 0.8662

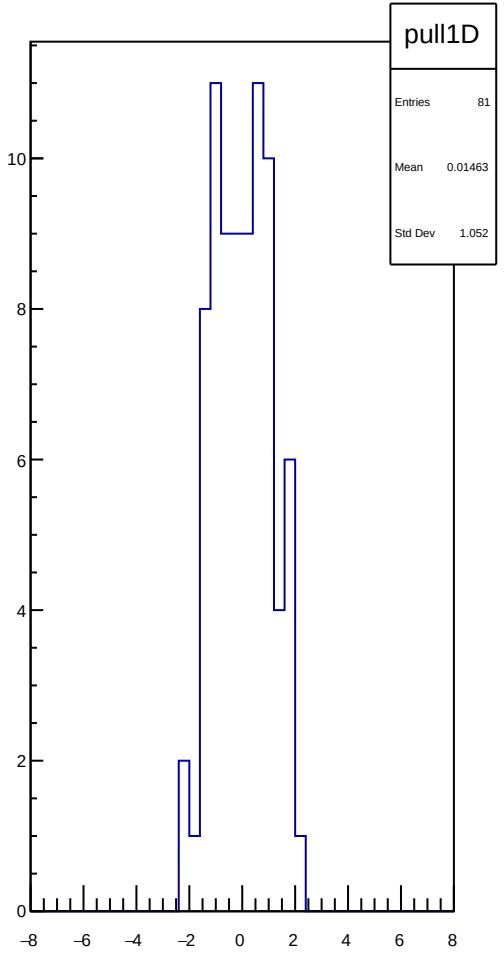

diff_bpm4aesumY_rms vs run
χ² / ndf 3408 / 80
p0 1.045e+04 ± 8.404
11500
11000
10500
10000
9500
9000

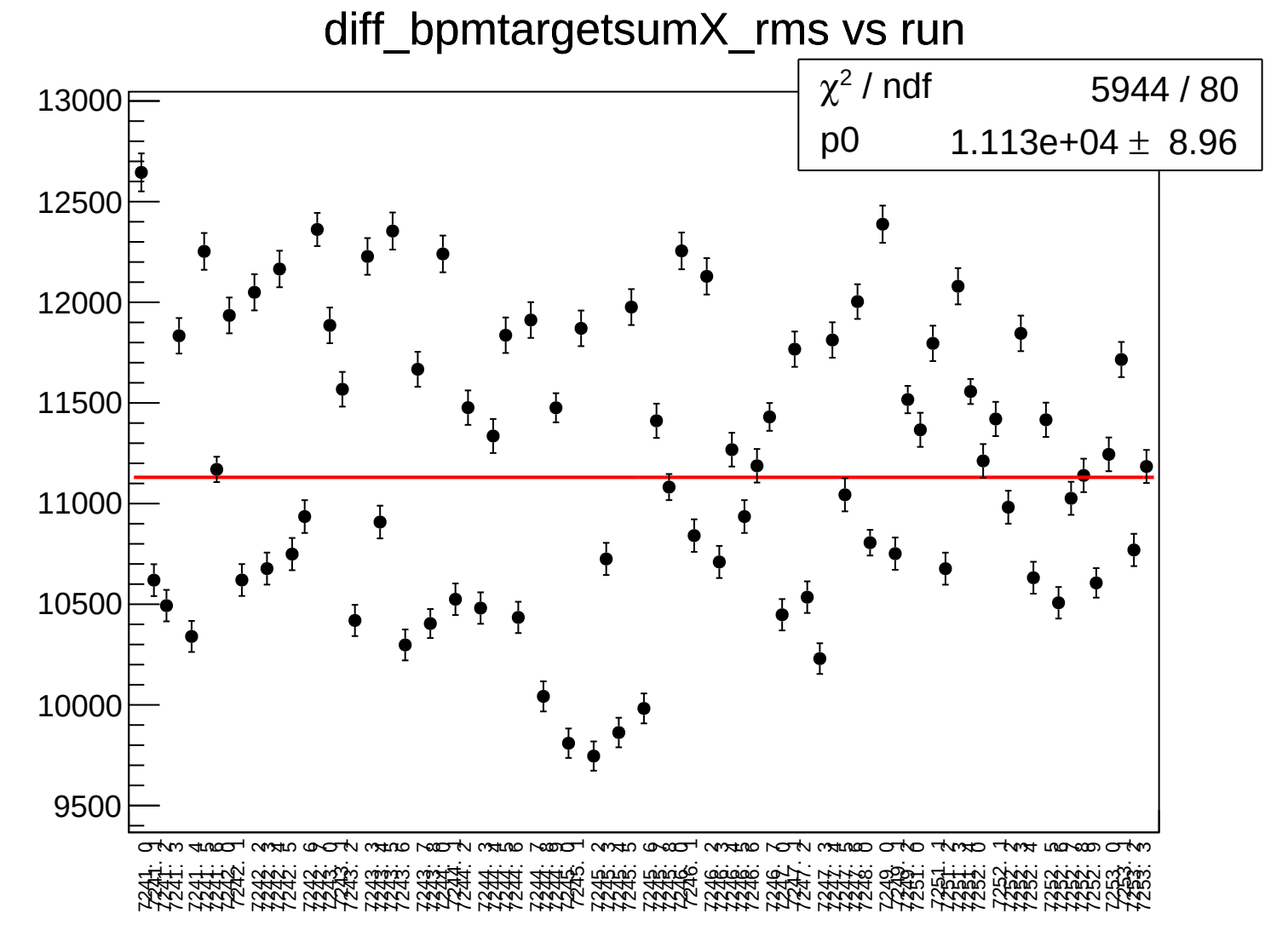

diff_bpm4aediffY_mean vs run
χ² / ndf 68.52 / 80
p0 1.856 ± 2.604
pull
Entries 81
Mean −338.9
Std Dev 0

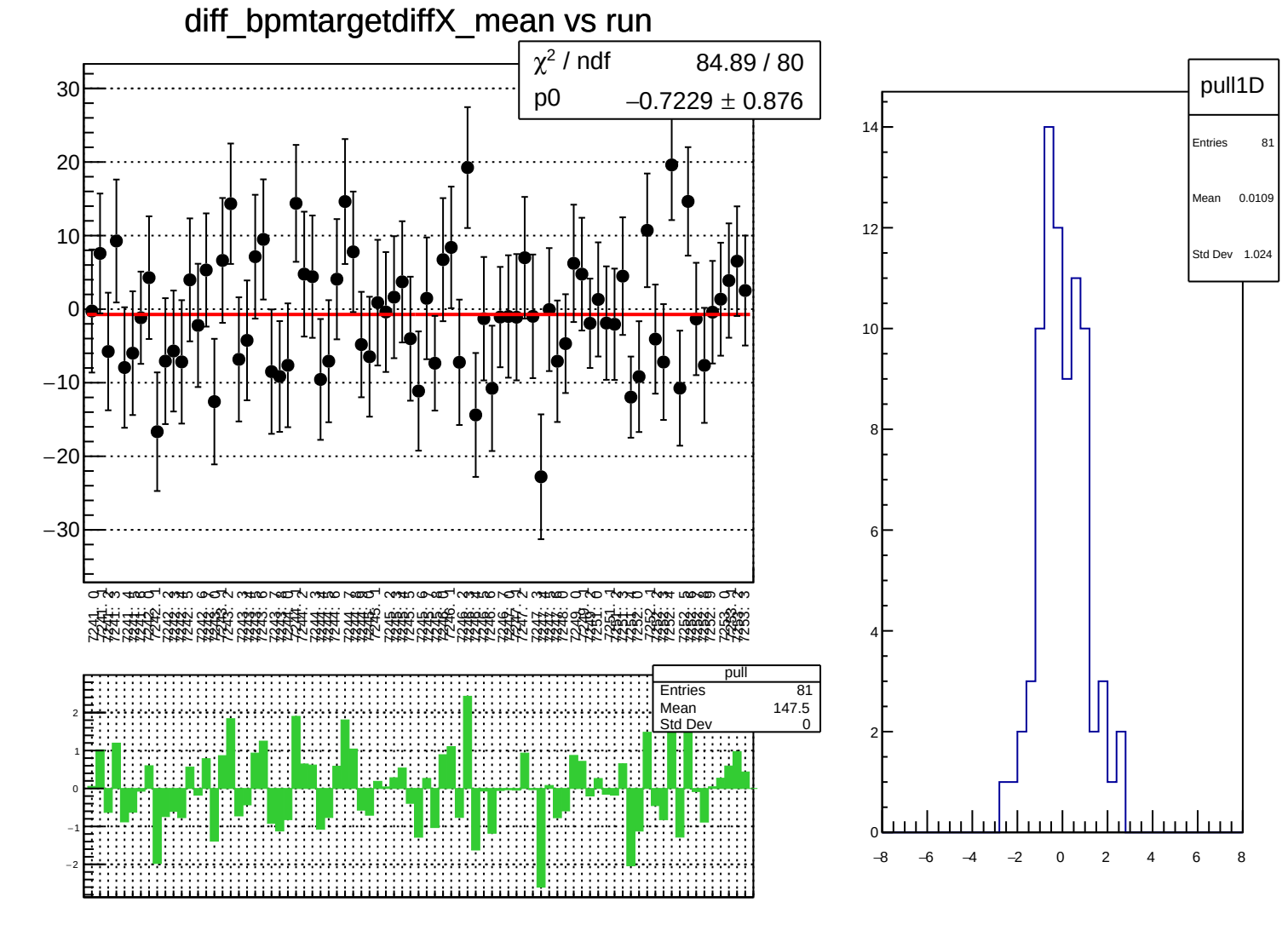

pull1D
Entries 81
Mean −0.005586
Std Dev 0.9197

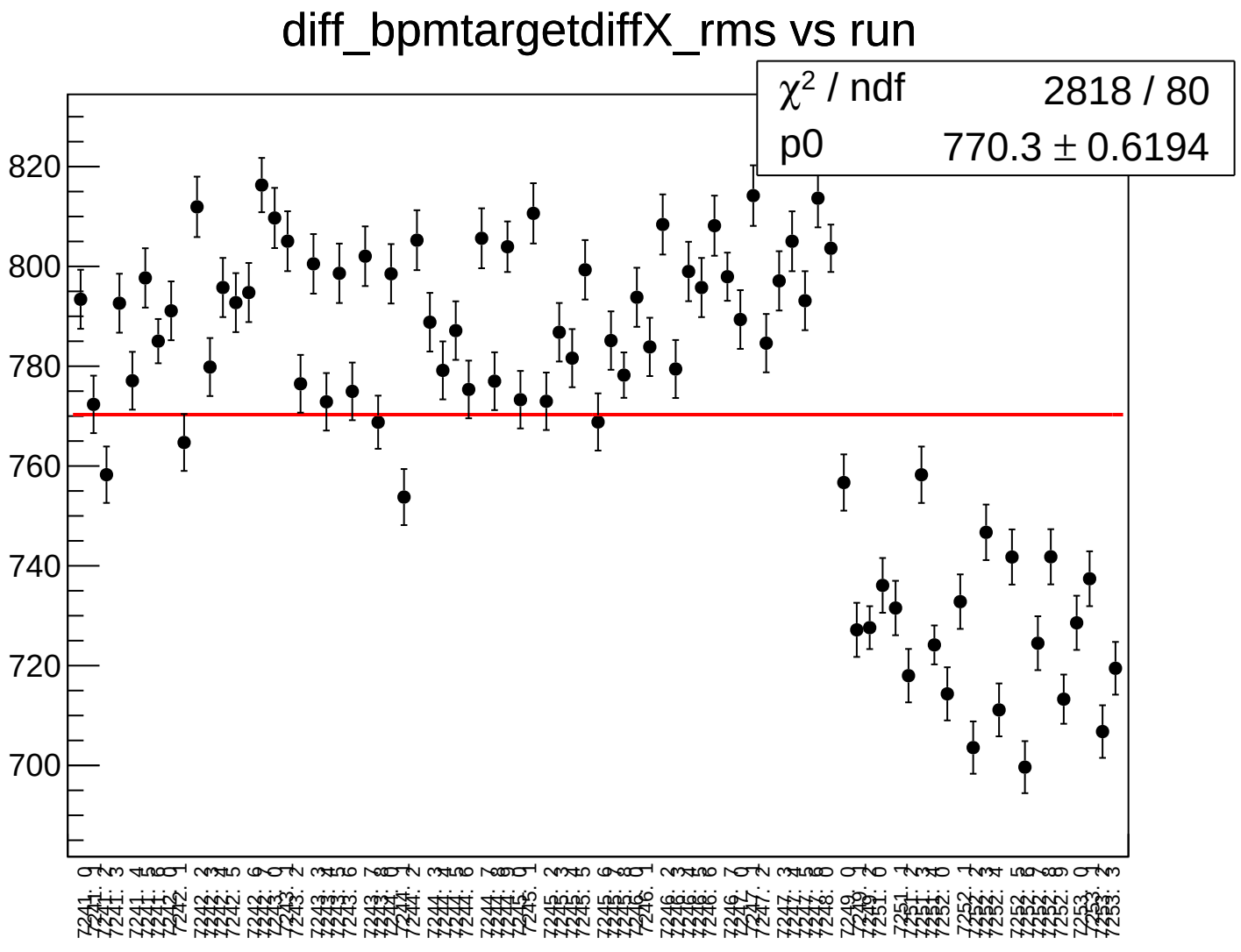

diff_bpm4aediffY_rms vs run
χ² / ndf 8231 / 80
p0 2285 ± 1.841
2800
2700
2600
2500
2400
2300
2200
2100
2000
1900

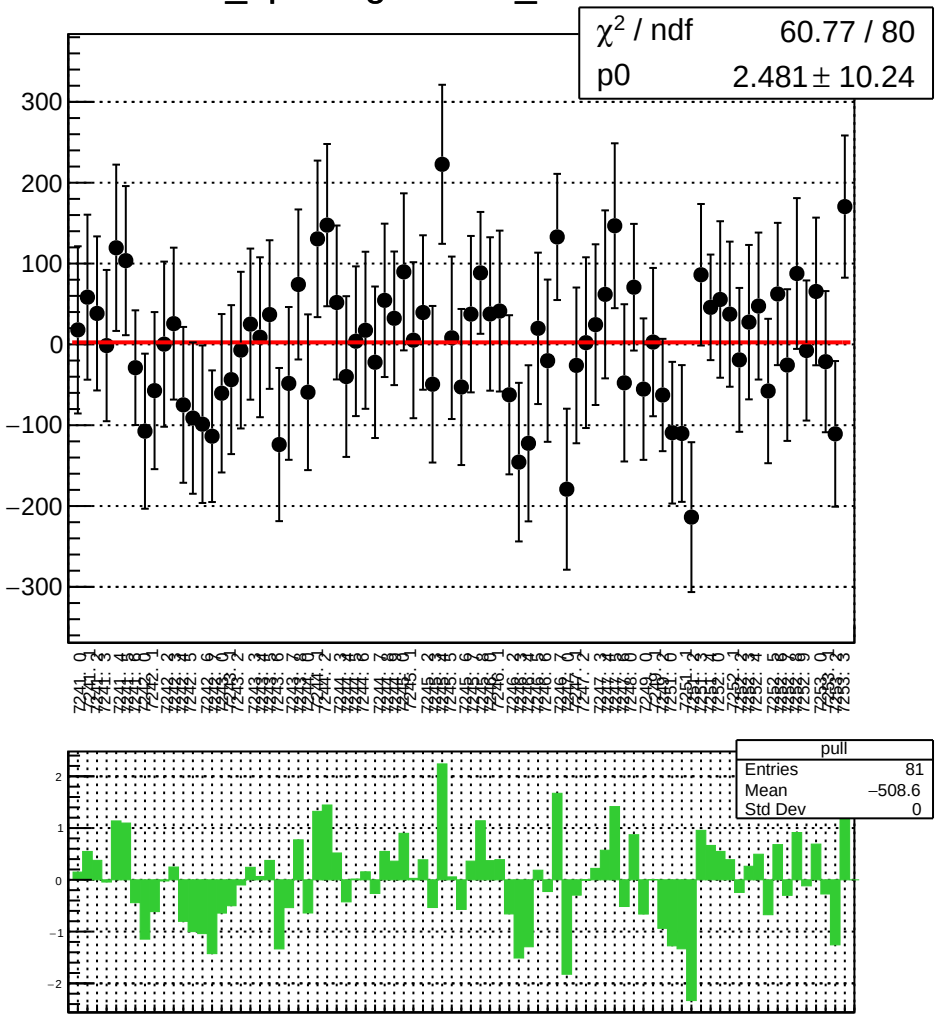

diff_bpmtargetsumX_mean vs run
χ² / ndf 89.63 / 80
p0 −24.1 ± 12.67
pull
Entries 81
Mean 112.6
Std Dev 0

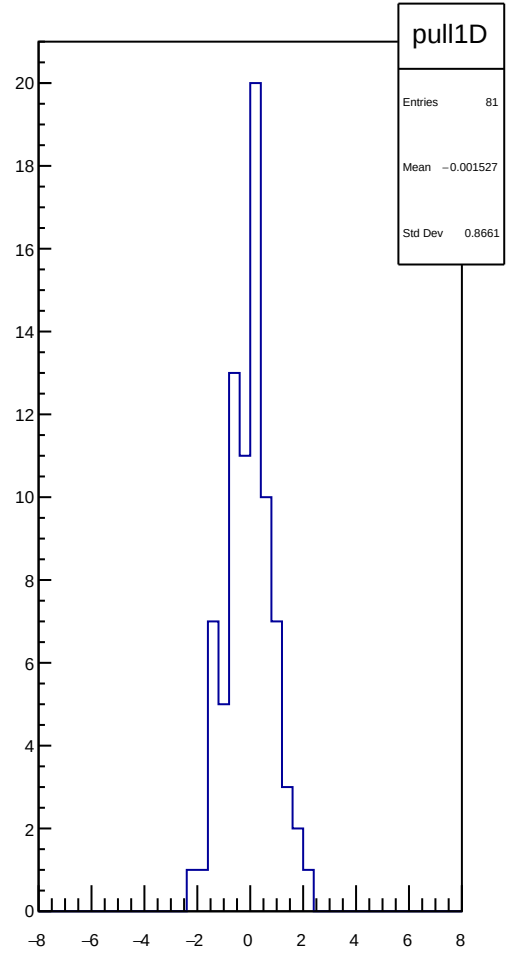

pull1D
Entries 81
Mean 0.01463
Std Dev 1.052

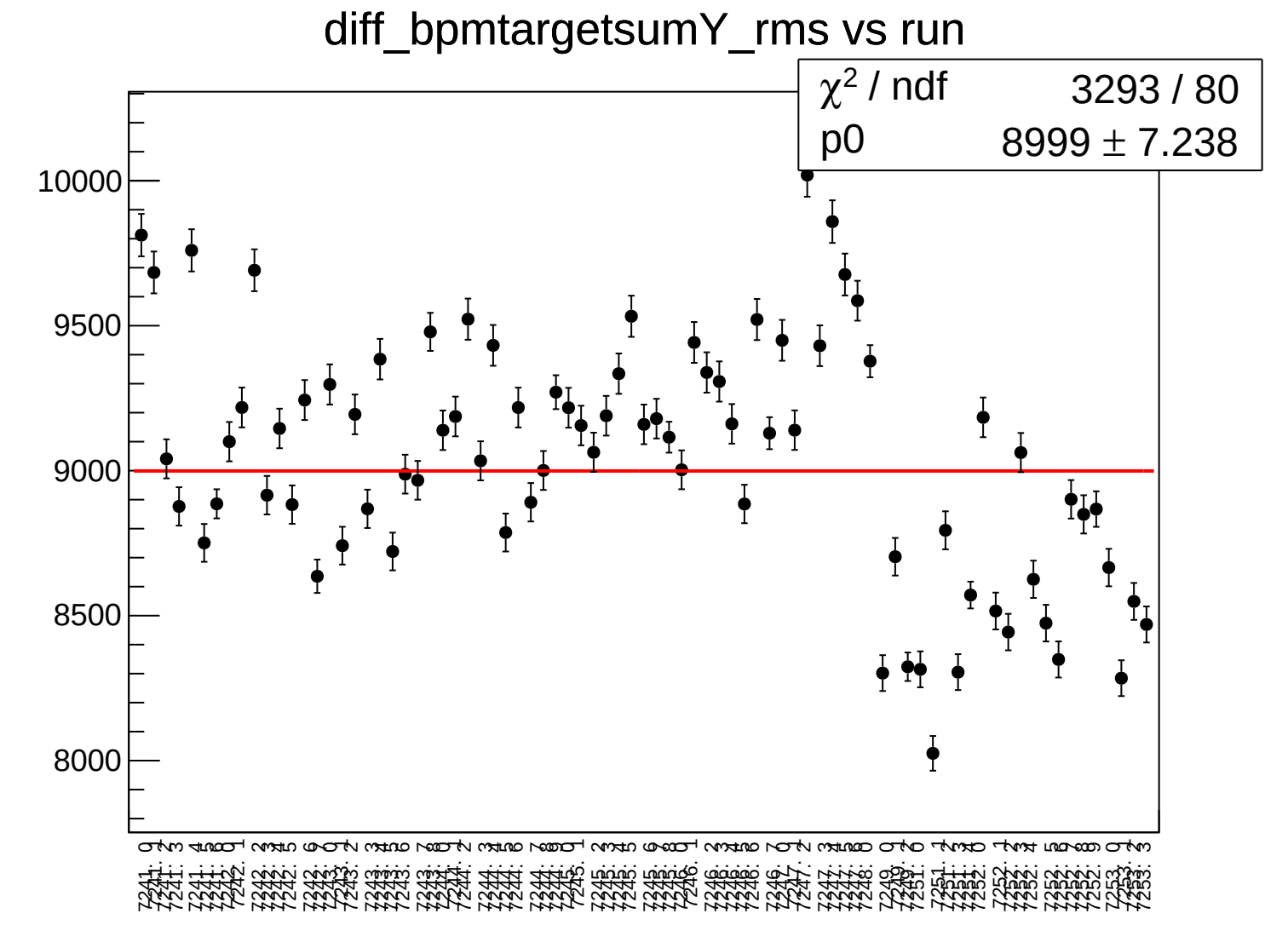

diff_bpmtargetsumX_rms vs run
χ² / ndf 5944 / 80
p0 1.113e+04 ± 8.96
13000
12500
12000
11500
11000
10500
10000
9500

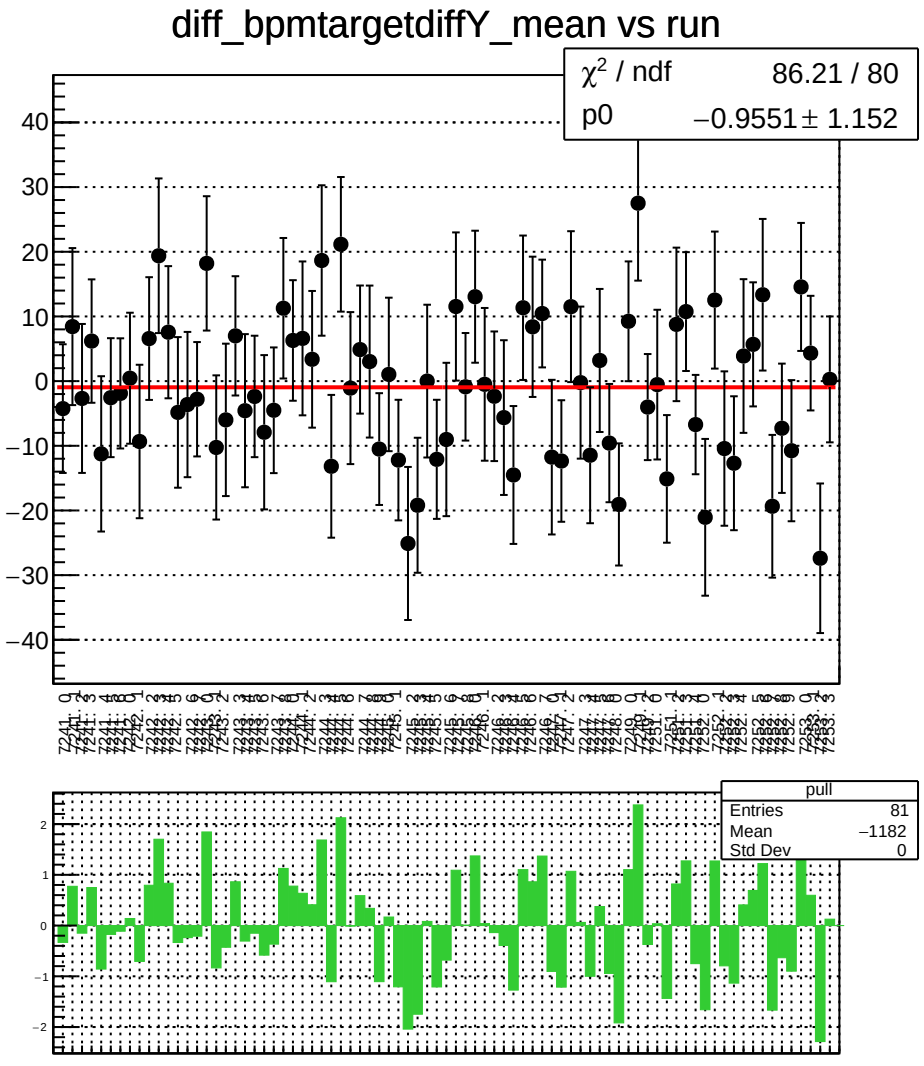

diff_bpmtargetdiffX_mean vs run
χ² / ndf 84.89 / 80
p0 −0.7229 ± 0.876
pull
Entries 81
Mean 147.5
Std Dev 0
pull1D
Entries 81
Mean 0.0109
Std Dev 1.024

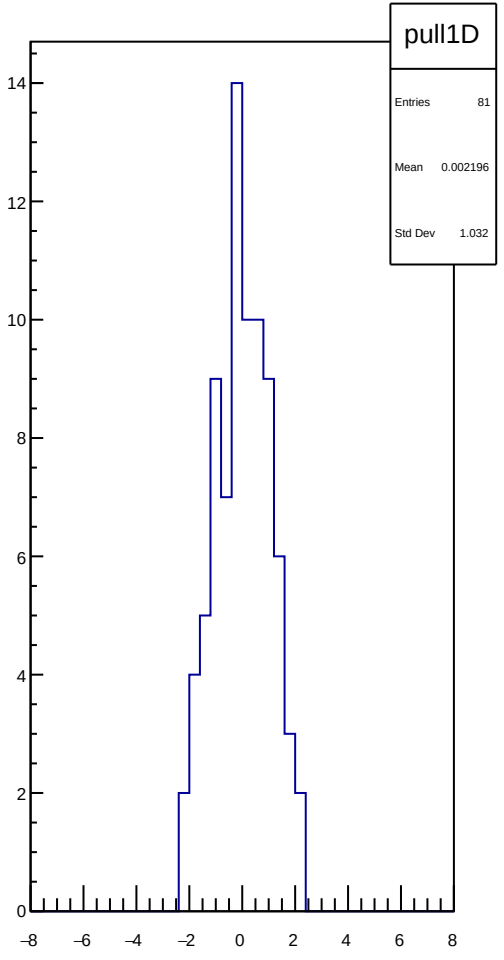

diff_bpmtargetdiffX_rms vs run
χ² / ndf 2818 / 80
p0 770.3 ± 0.6194
820
800
780
760
740
720
700


diff_bpmtargetsumY_mean vs run
χ² / ndf 60.77 / 80
p0 2.481 ± 10.24
pull
Entries 81
Mean −508.6
Std Dev 0

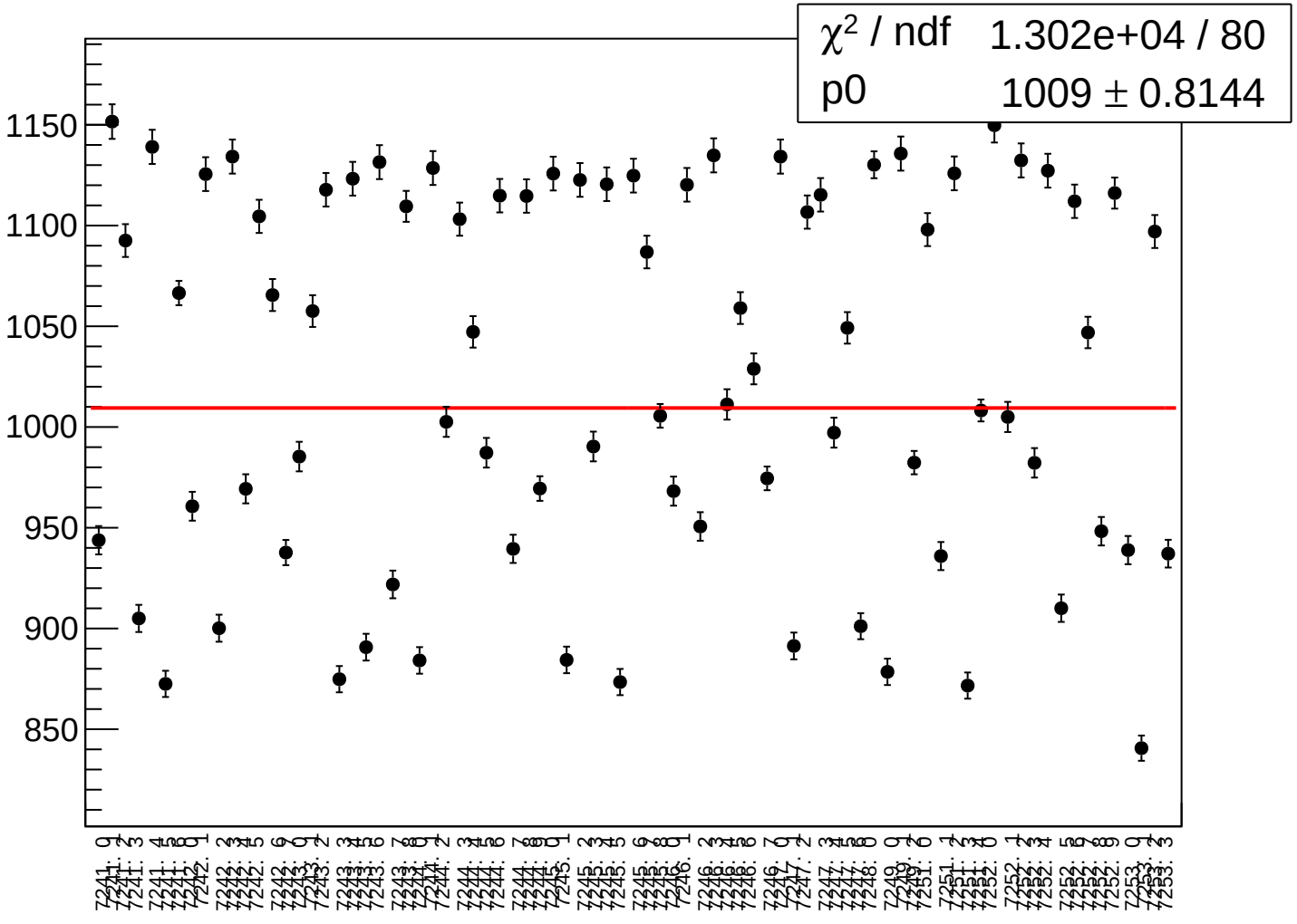

pull1D
Entries 81
Mean −0.001527
Std Dev 0.8661

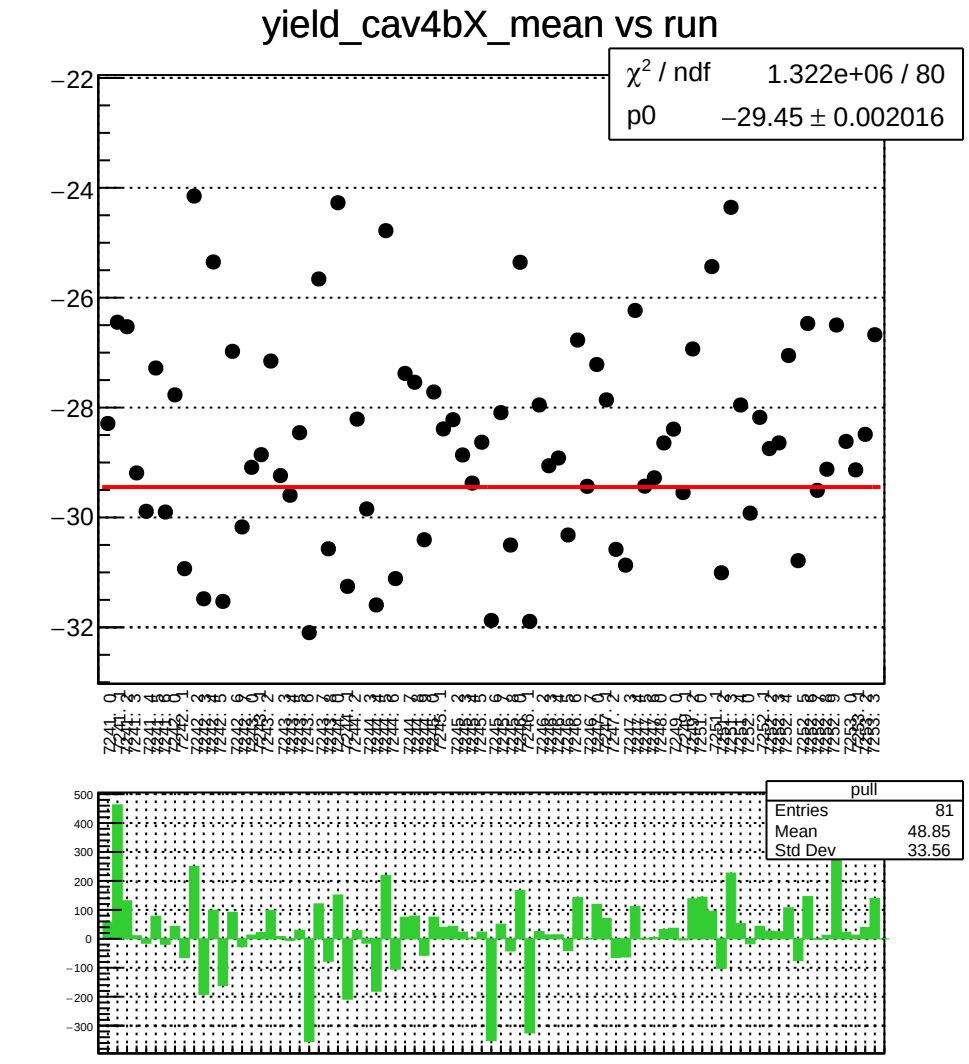

diff_bpmtargetsumY_rms vs run
χ² / ndf 3293 / 80
p0 8999 ± 7.238
10000
9500
9000
8500
8000

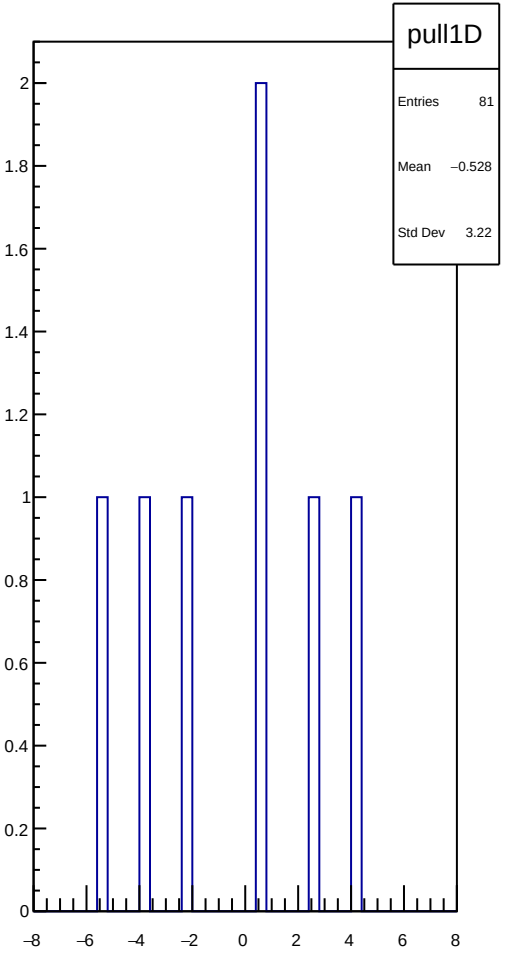

diff_bpmtargetdiffY_mean vs run
χ² / ndf 86.21 / 80
p0 −0.9551 ± 1.152
pull
Entries 81
Mean −1182
Std Dev 0

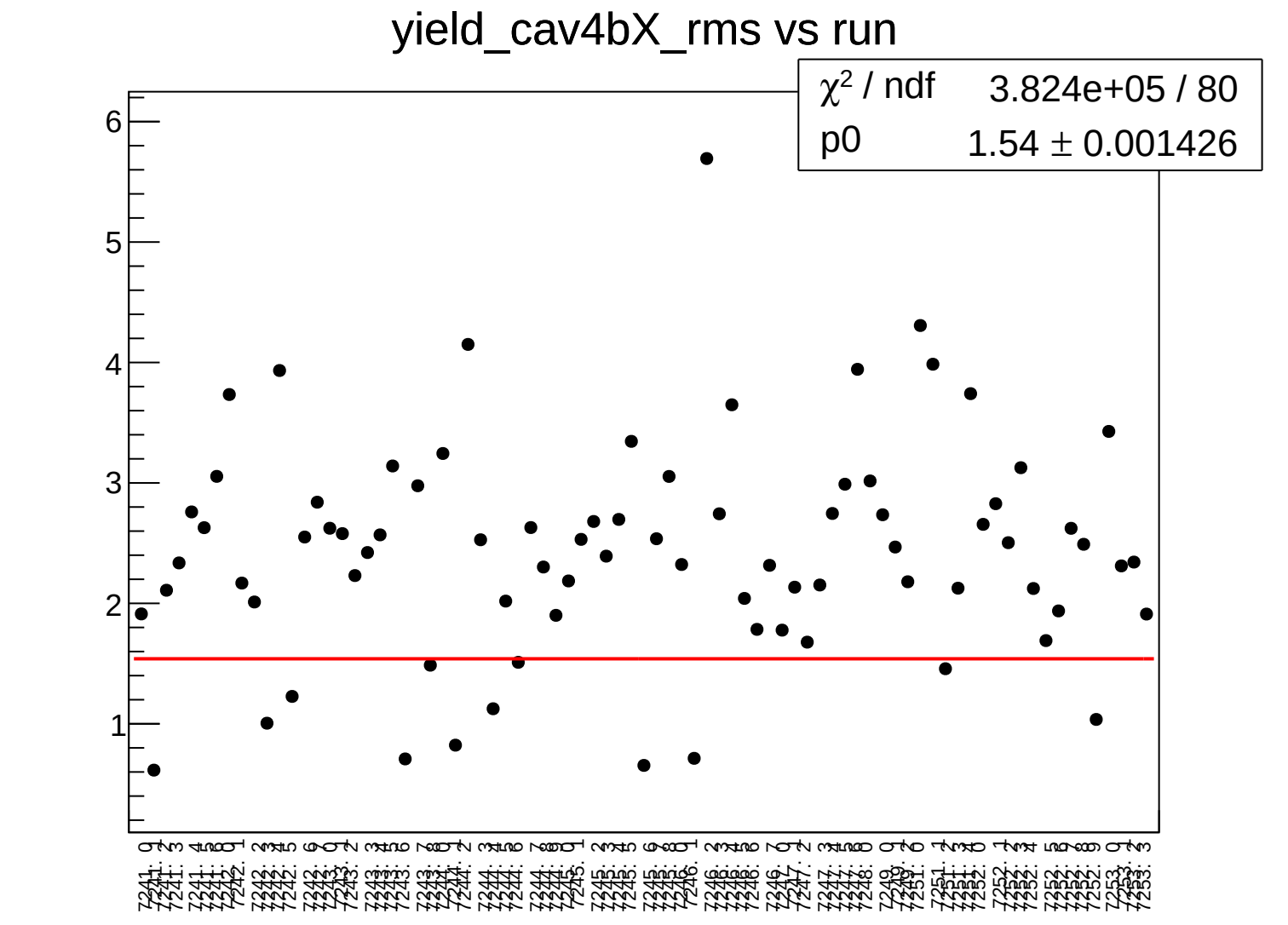

pull1D
Entries 81
Mean 0.002196
Std Dev 1.032

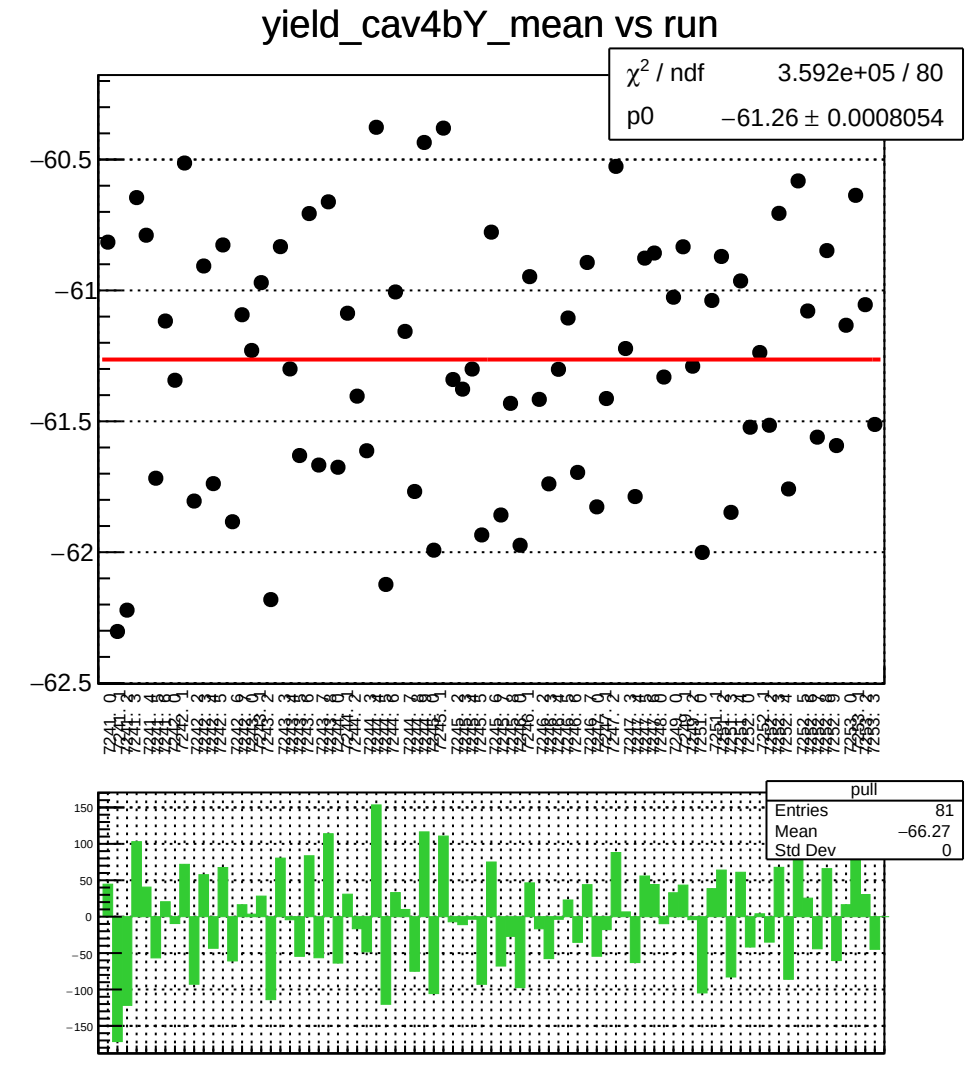
diff_bpmtargetdiffY_rms vs run

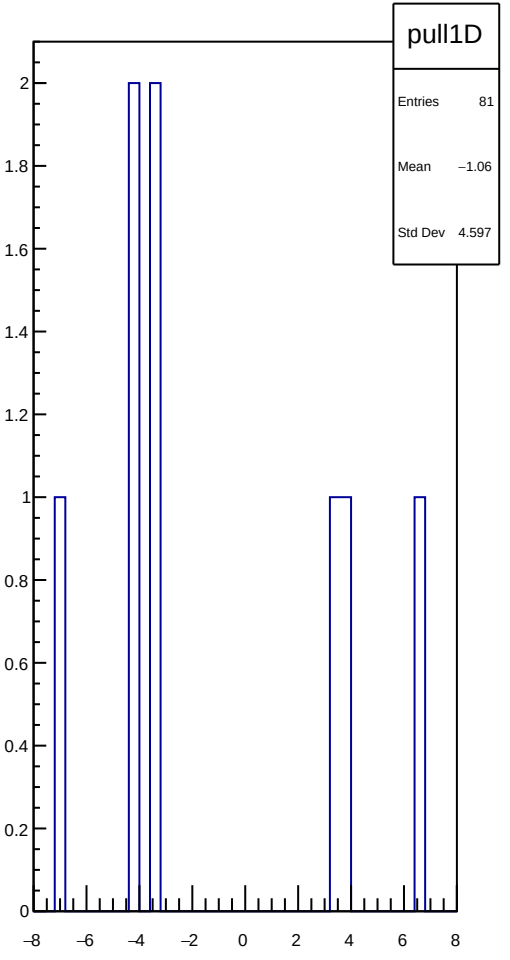


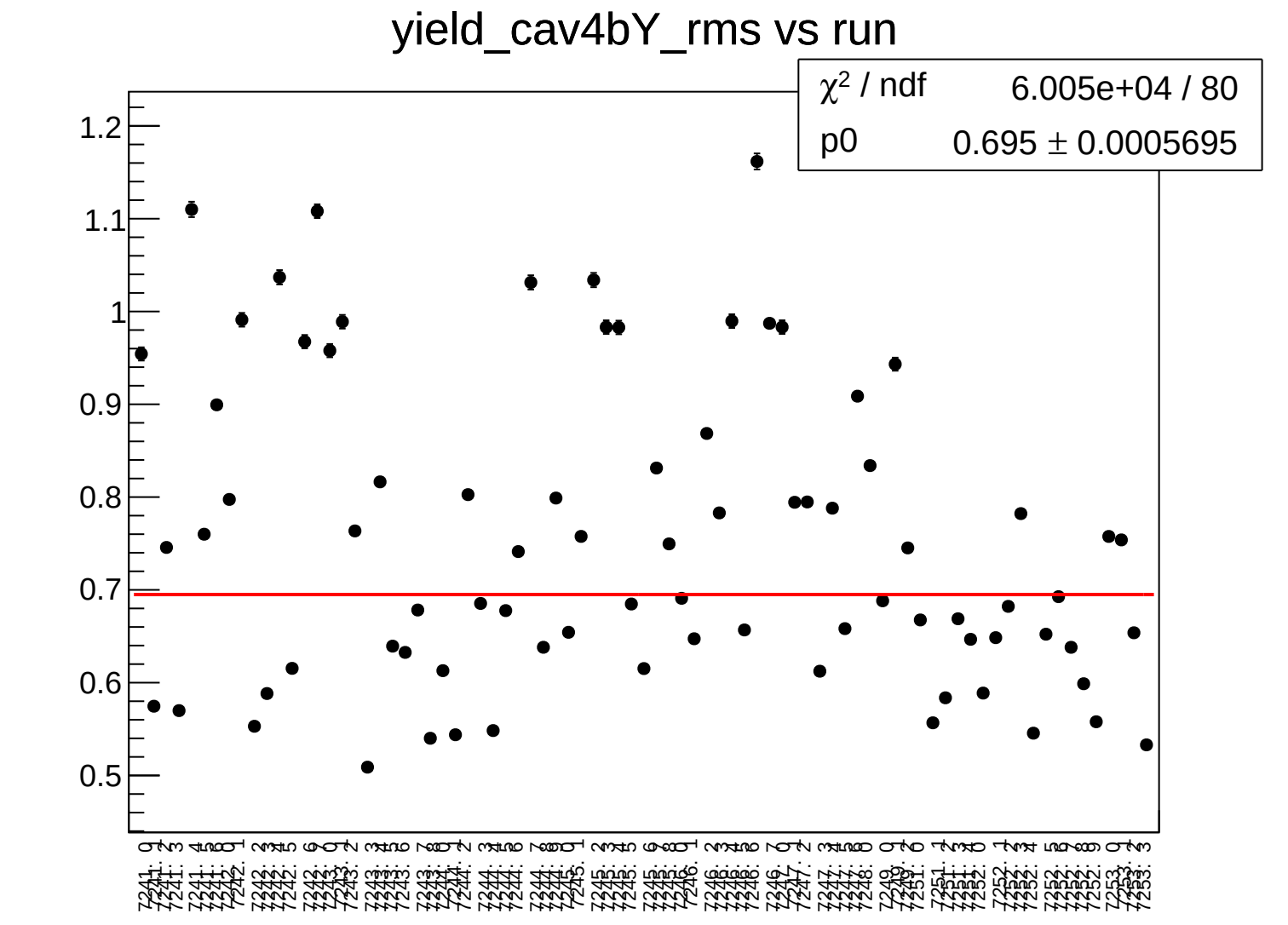

yield_cav4bX_mean vs run
χ² / ndf 1.322e+06 / 80
p0 −29.45 ± 0.002016
−22
−24
−26
−28
−30
−32
pull
Entries 81
Mean 48.85
Std Dev 33.56
500
400
300
200
100
0
−100
−200
−300

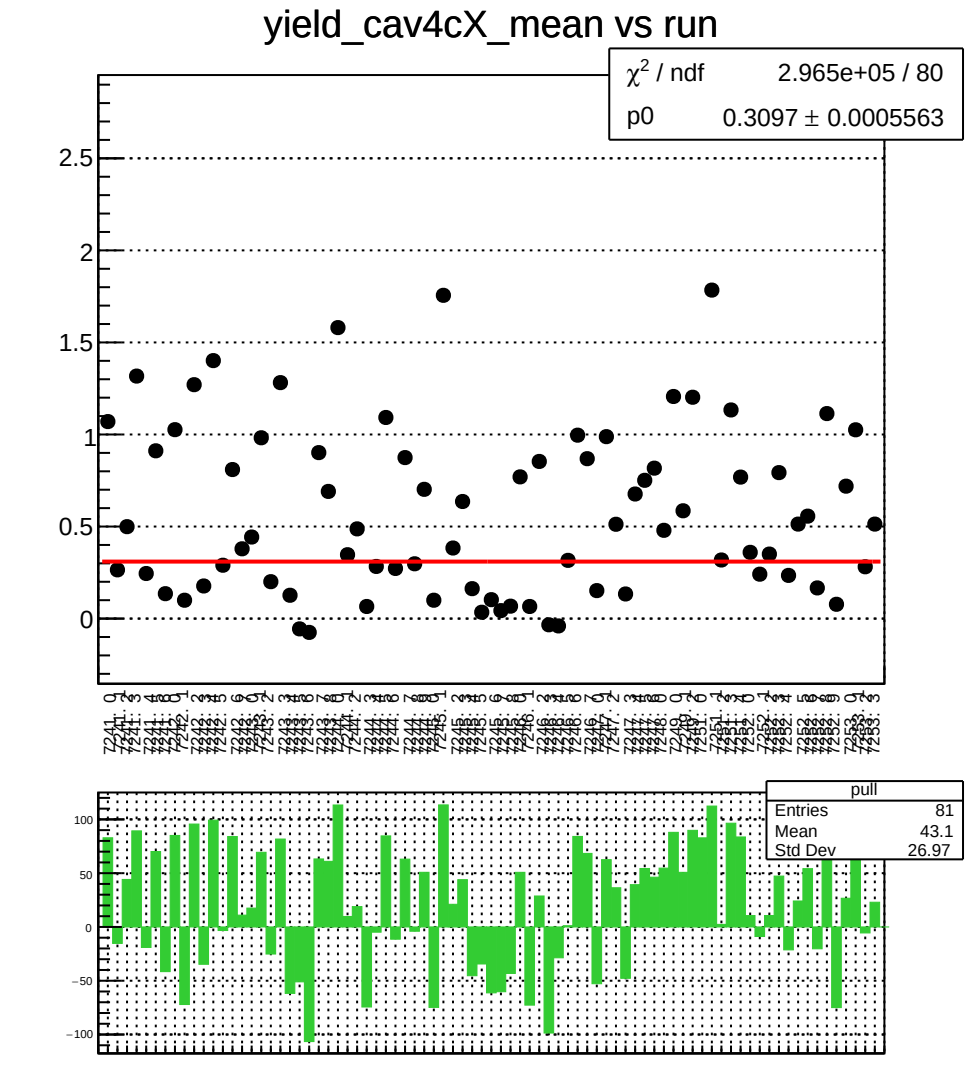

pull1D
Entries 81
Mean −0.528
Std Dev 3.22
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

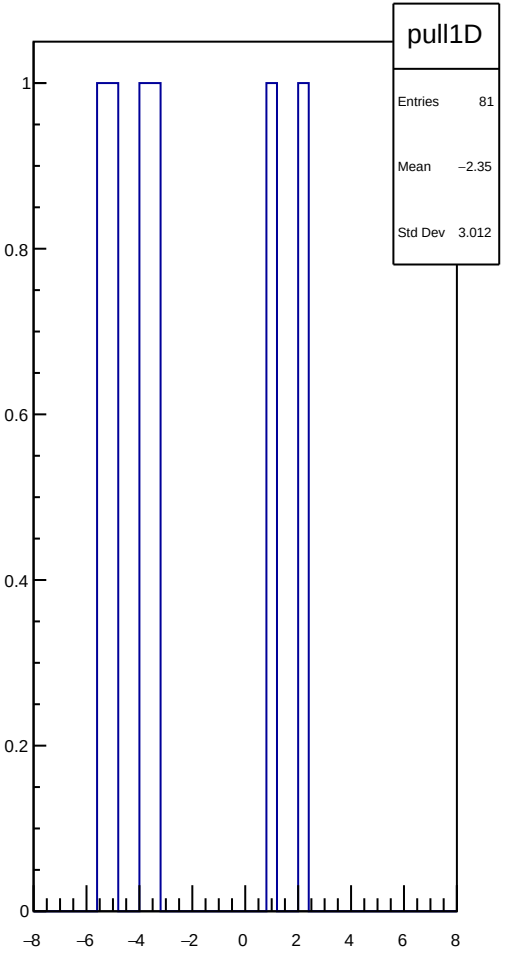

yield_cav4bX_rms vs run
χ² / ndf 3.824e+05 / 80
p0 1.54 ± 0.001426
6
5
4
3
2
1

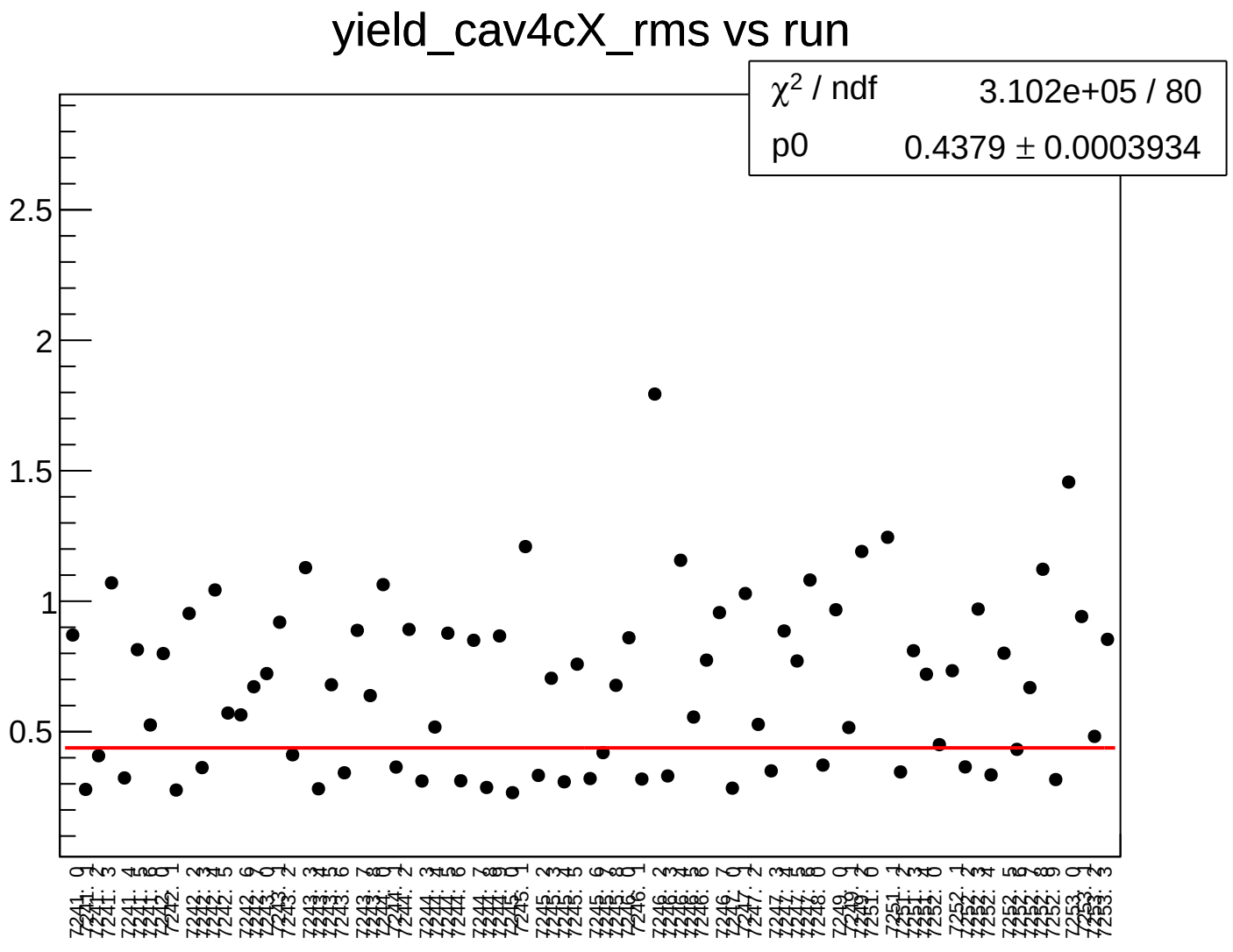

yield_cav4bY_mean vs run
χ² / ndf 3.592e+05 / 80
p0 −61.26 ± 0.0008054
−60.5
−61
−61.5
−62
−62.5
pull
Entries 81
Mean −66.27
Std Dev 0
150
100
50
0
−50
−100
−150

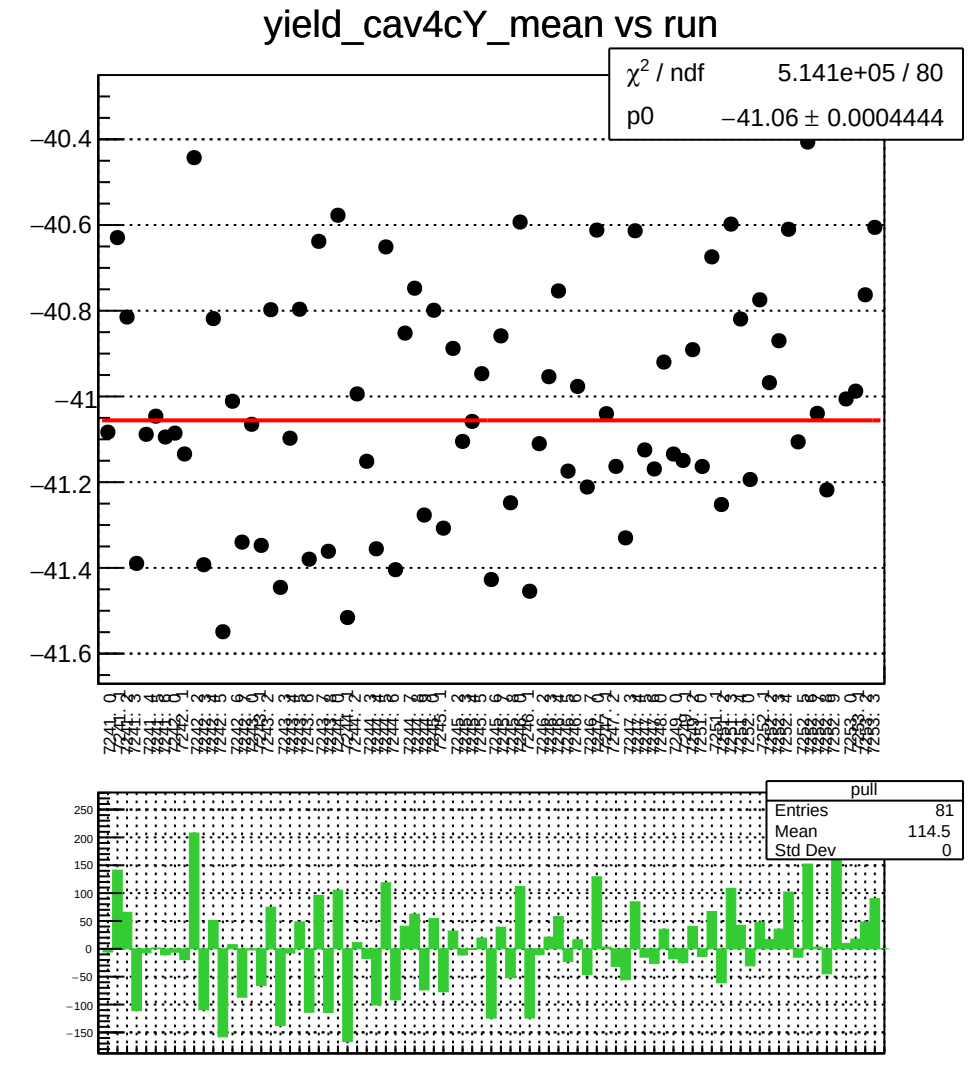

pull1D
Entries 81
Mean −1.06
Std Dev 4.597
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

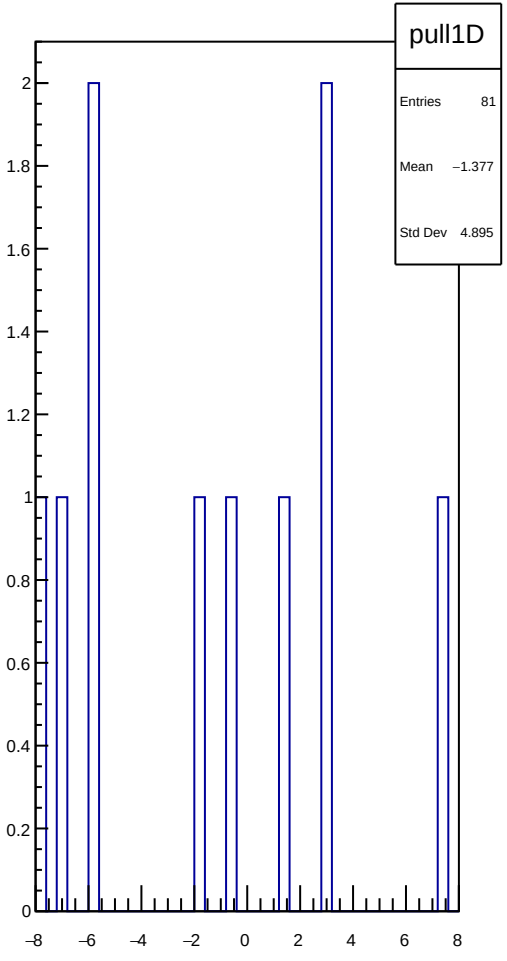

yield_cav4bY_rms vs run
χ² / ndf 6.005e+04 / 80
p0 0.695 ± 0.0005695
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5

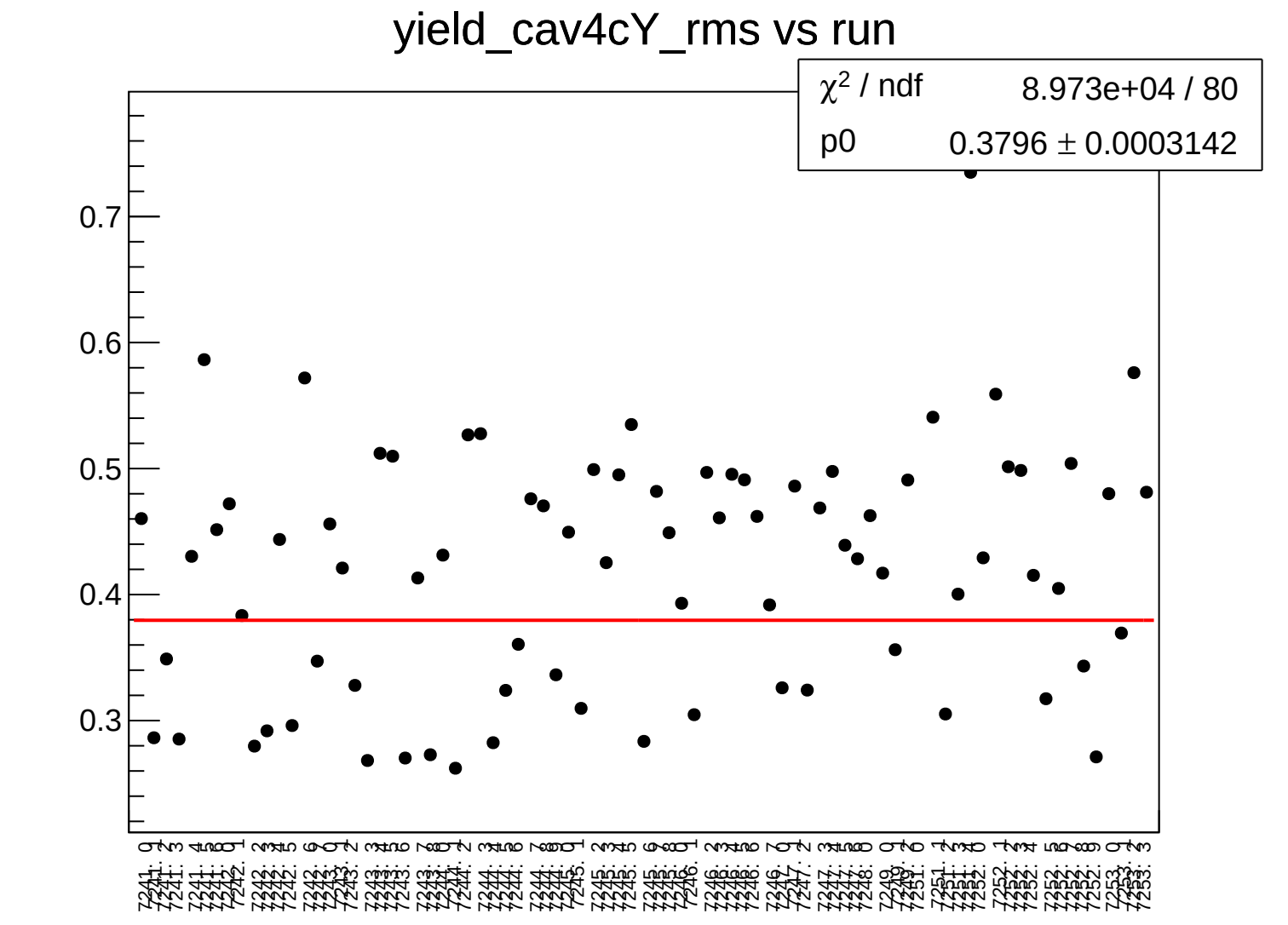

yield_cav4cX_mean vs run
χ² / ndf 2.965e+05 / 80
p0 0.3097 ± 0.0005563
pull
Entries 81
Mean 43.1
Std Dev 26.97

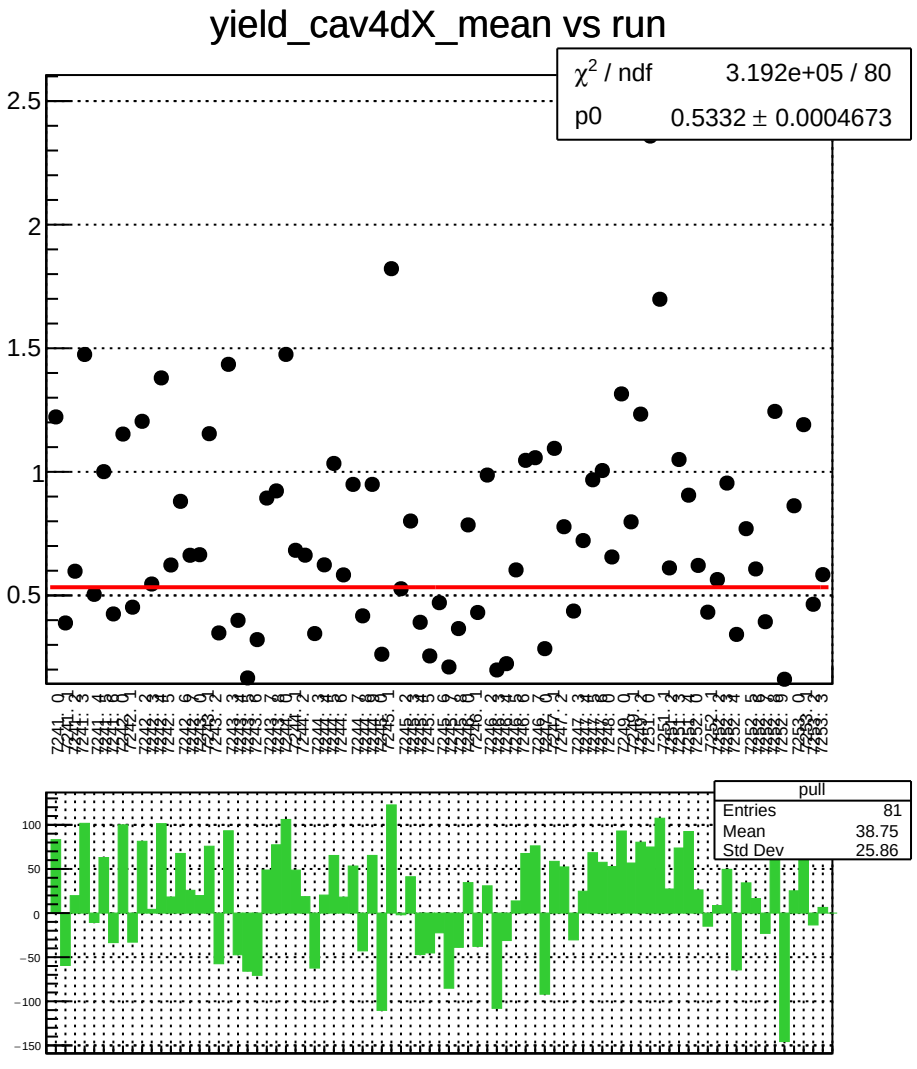

pull1D
Entries 81
Mean −2.35
Std Dev 3.012

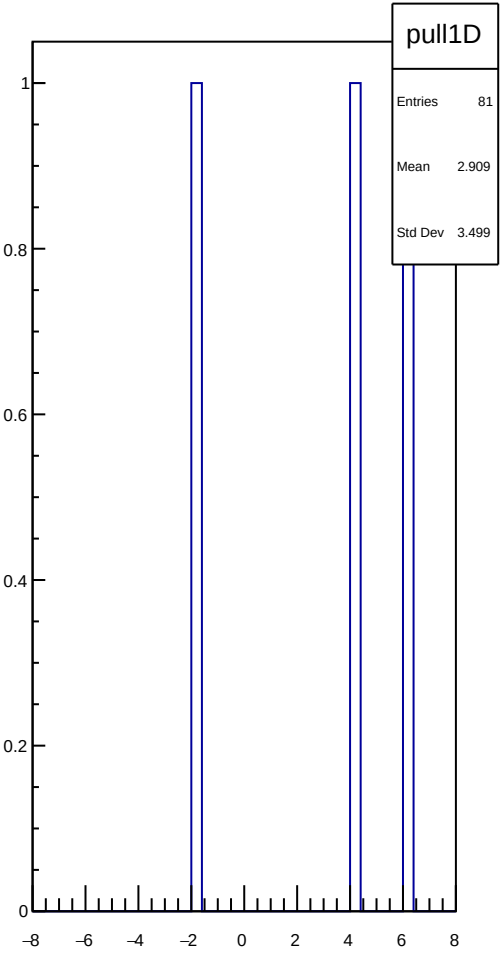

yield_cav4cX_rms vs run
χ² / ndf 3.102e+05 / 80
p0 0.4379 ± 0.0003934
2.5
2
1.5
1
0.5

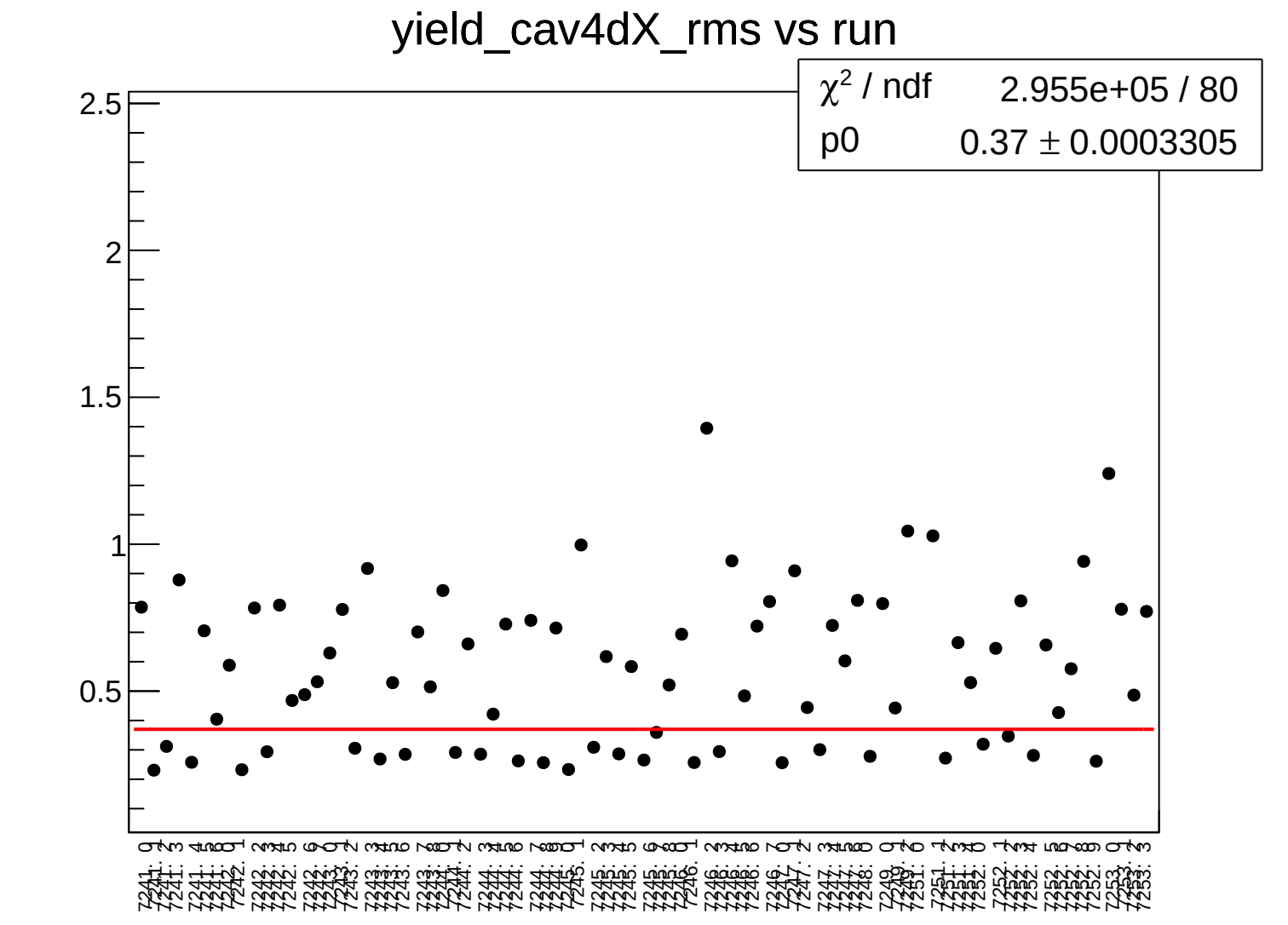

yield_cav4cY_mean vs run
χ² / ndf 5.141e+05 / 80
p0 −41.06 ± 0.0004444
−40.4
−40.6
−40.8
−41
−41.2
−41.4
−41.6
pull
Entries 81
Mean 114.5
Std Dev 0
250
200
150
100
50
0
−50
−100
−150

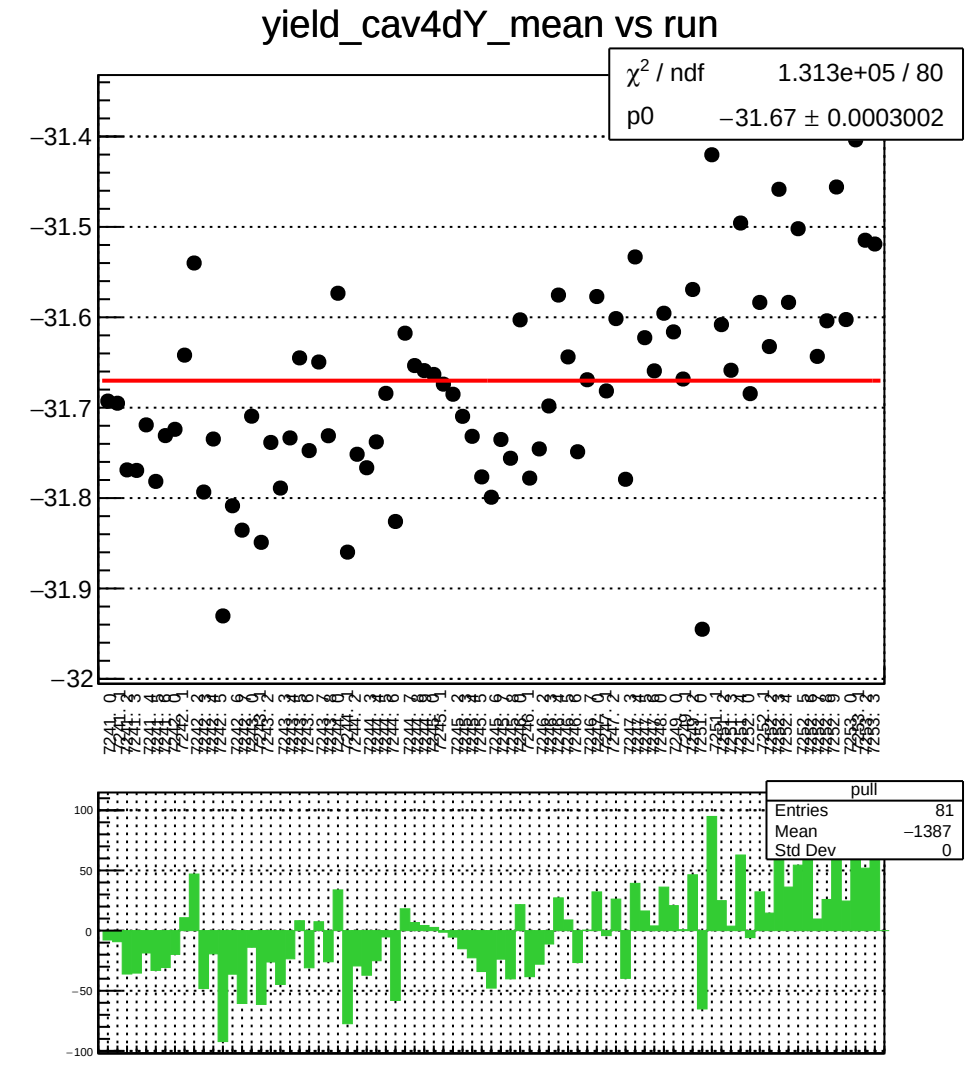

pull1D
Entries 81
Mean −1.377
Std Dev 4.895
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

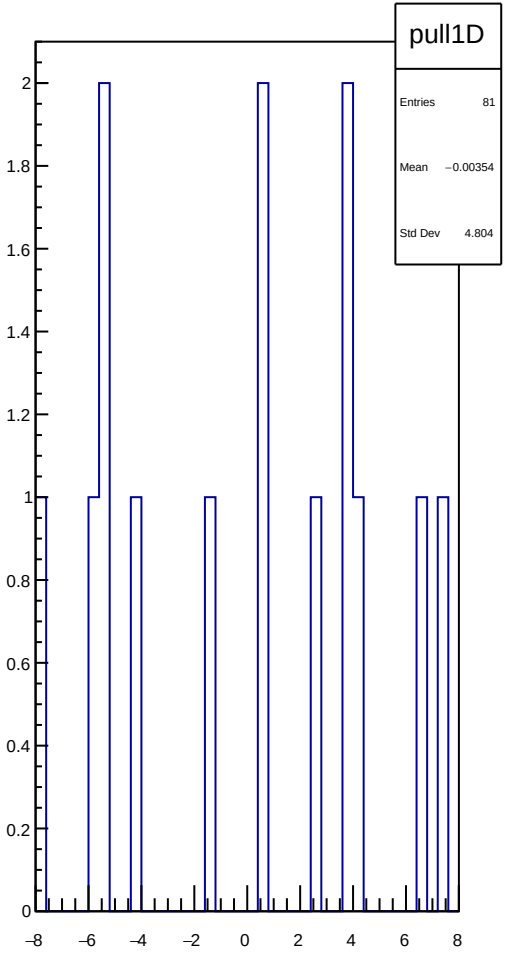

yield_cav4cY_rms vs run
χ² / ndf 8.973e+04 / 80
p0 0.3796 ± 0.0003142
0.7
0.6
0.5
0.4
0.3

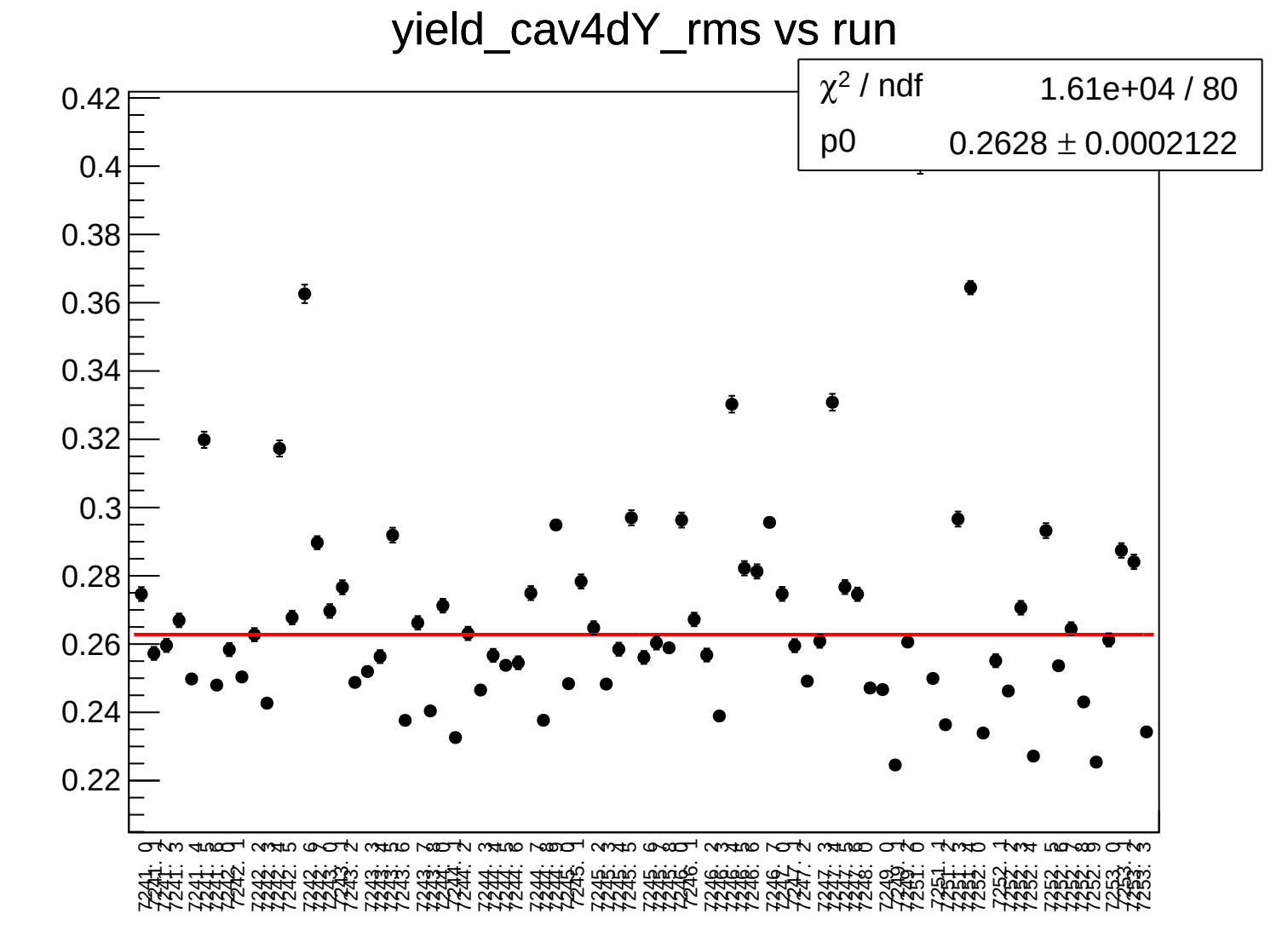

yield_cav4dX_mean vs run
χ² / ndf 3.192e+05 / 80
p0 0.5332 ± 0.0004673
pull
Entries 81
Mean 38.75
Std Dev 25.86

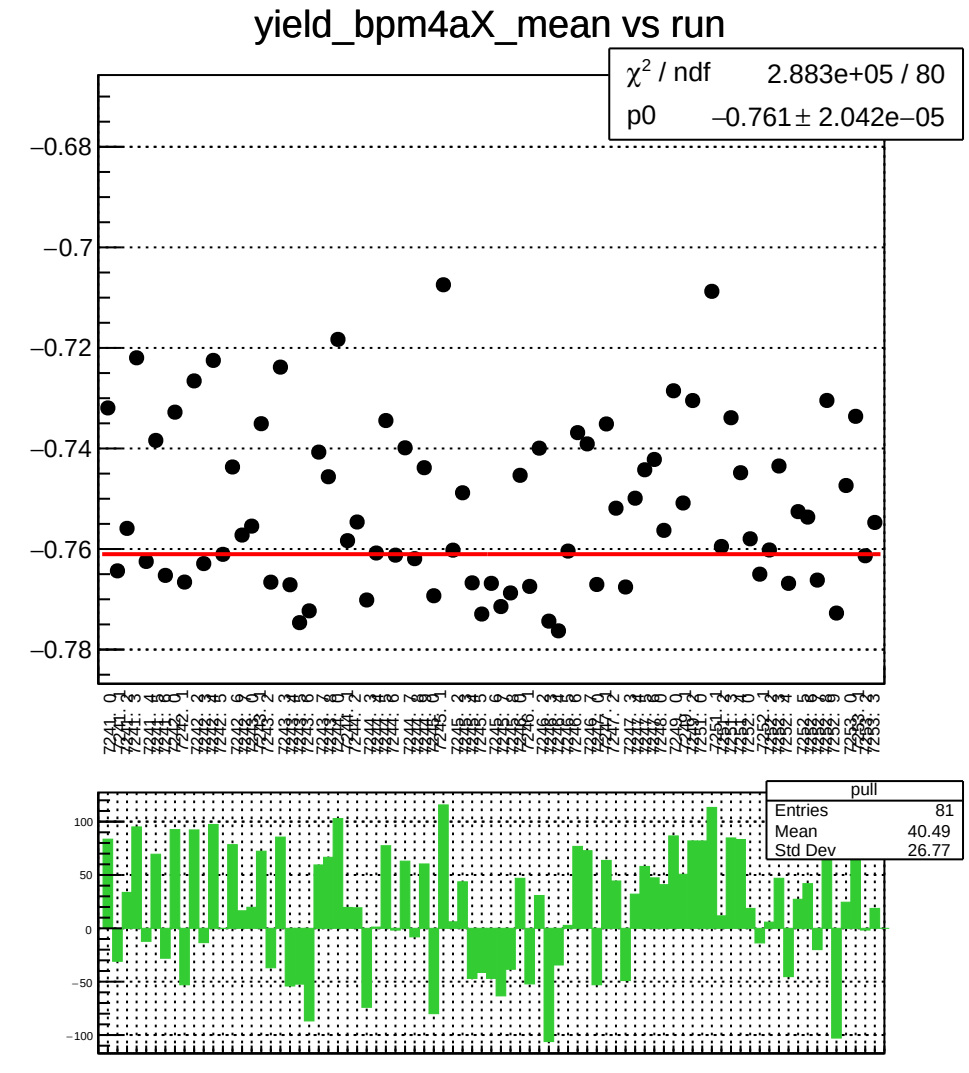

pull1D
Entries 81
Mean 2.909
Std Dev 3.499

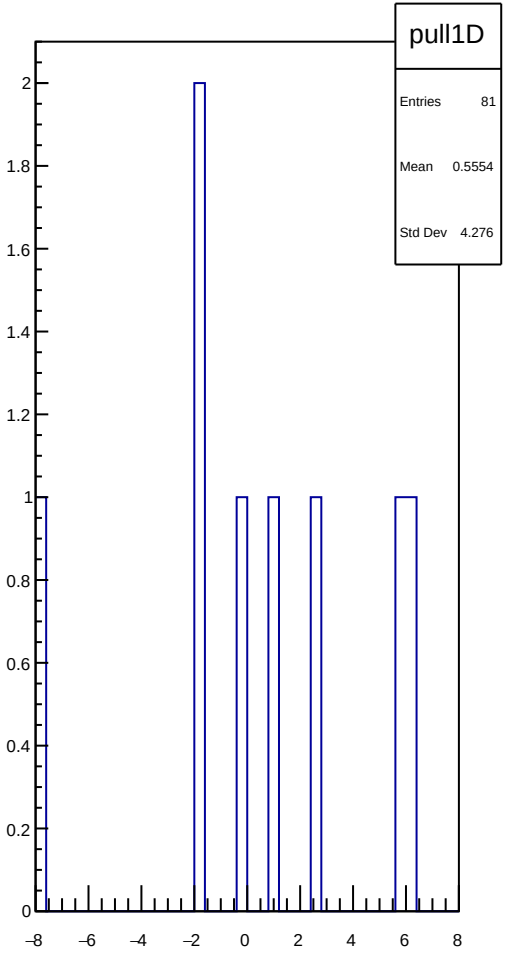

yield_cav4dX_rms vs run
χ² / ndf 2.955e+05 / 80
p0 0.37 ± 0.0003305
2.5
2
1.5
1
0.5

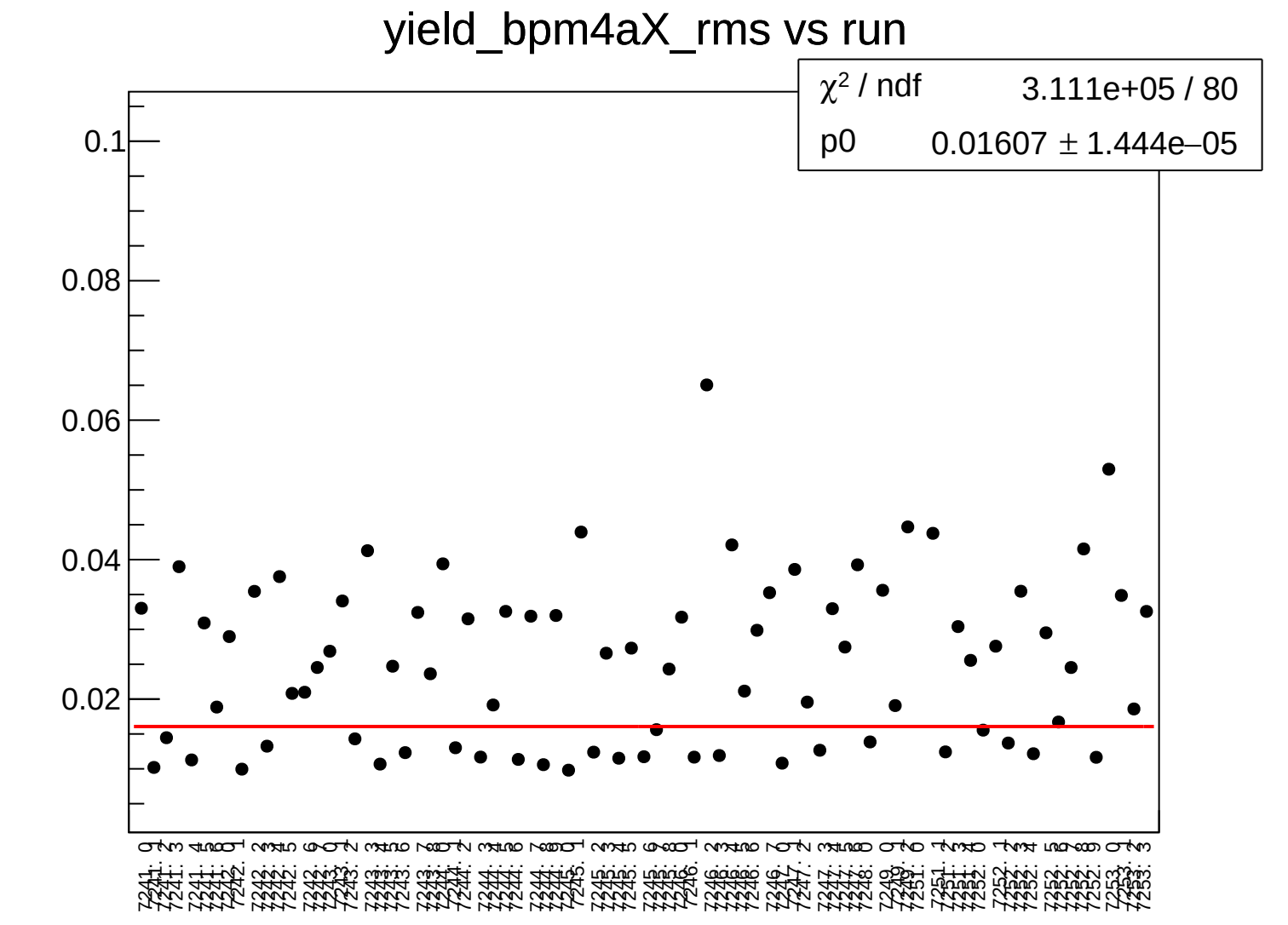

yield_cav4dY_mean vs run
χ² / ndf 1.313e+05 / 80
p0 −31.67 ± 0.0003002
−31.4
−31.5
−31.6
−31.7
−31.8
−31.9
−32
pull
Entries 81
Mean −1387
Std Dev 0
100
50
0
−50
−100

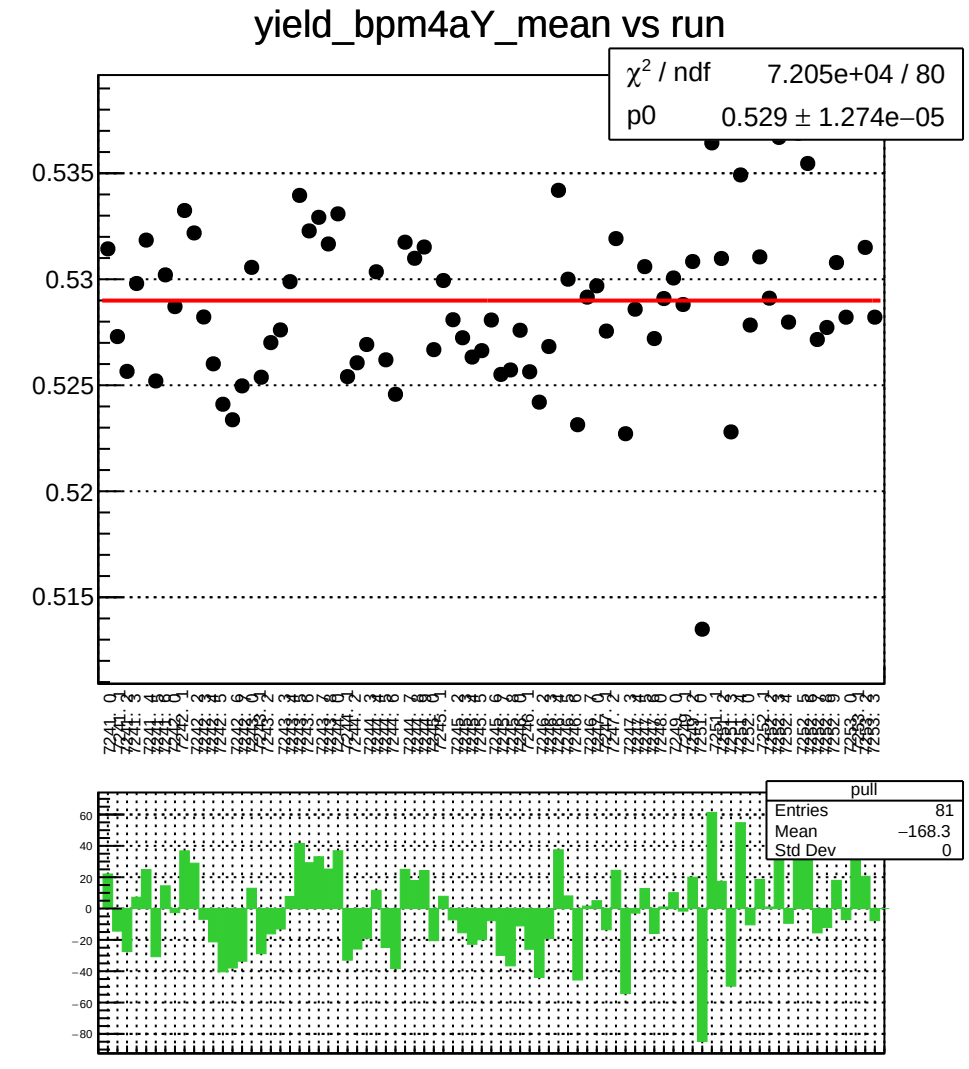

pull1D
Entries 81
Mean −0.00354
Std Dev 4.804
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

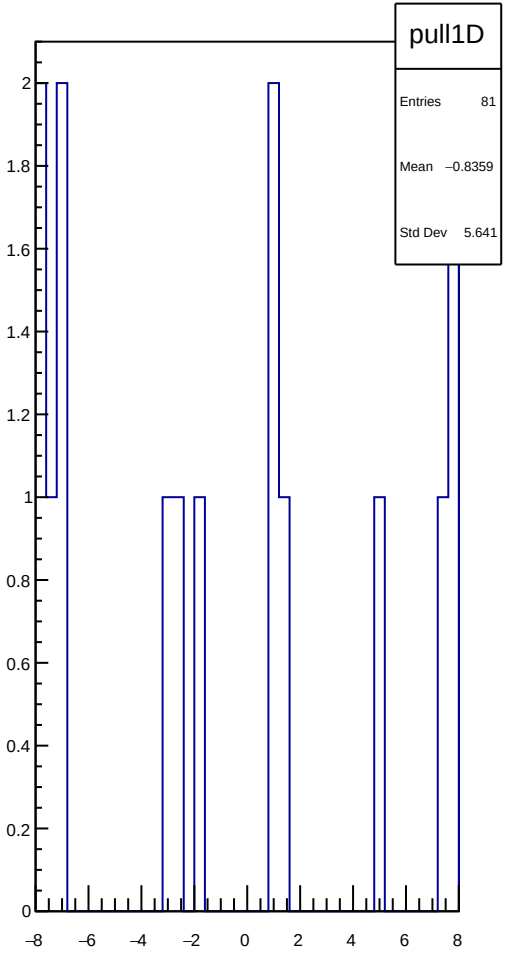

yield_cav4dY_rms vs run
χ² / ndf 1.61e+04 / 80
p0 0.2628 ± 0.0002122
0.42
0.4
0.38
0.36
0.34
0.32
0.3
0.28
0.26
0.24
0.22

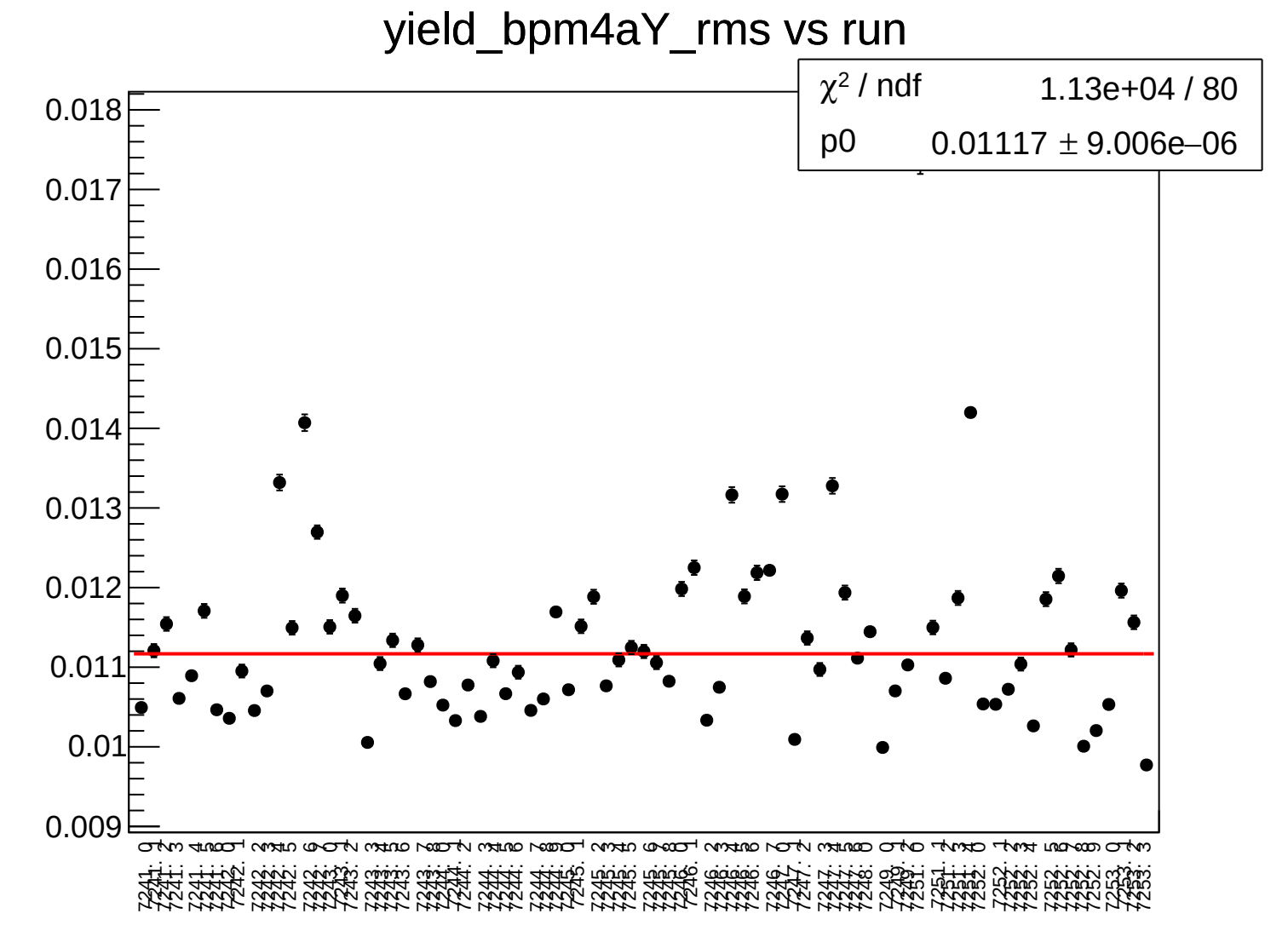

yield_bpm4aX_mean vs run
χ² / ndf 2.883e+05 / 80
p0 −0.761 ± 2.042e−05
−0.68
−0.7
−0.72
−0.74
−0.76
−0.78
pull
Entries 81
Mean 40.49
Std Dev 26.77
100
50
0
−50
−100

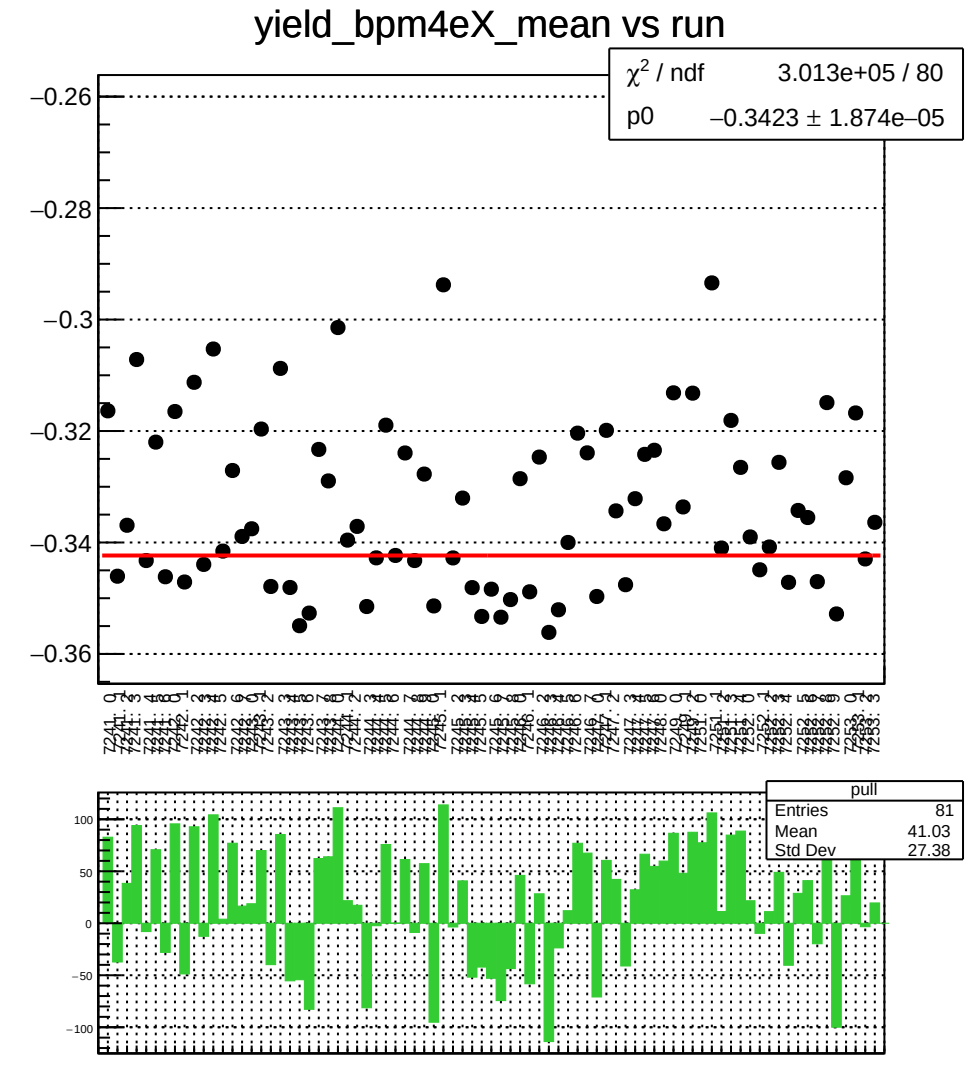

pull1D
Entries 81
Mean 0.5554
Std Dev 4.276
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

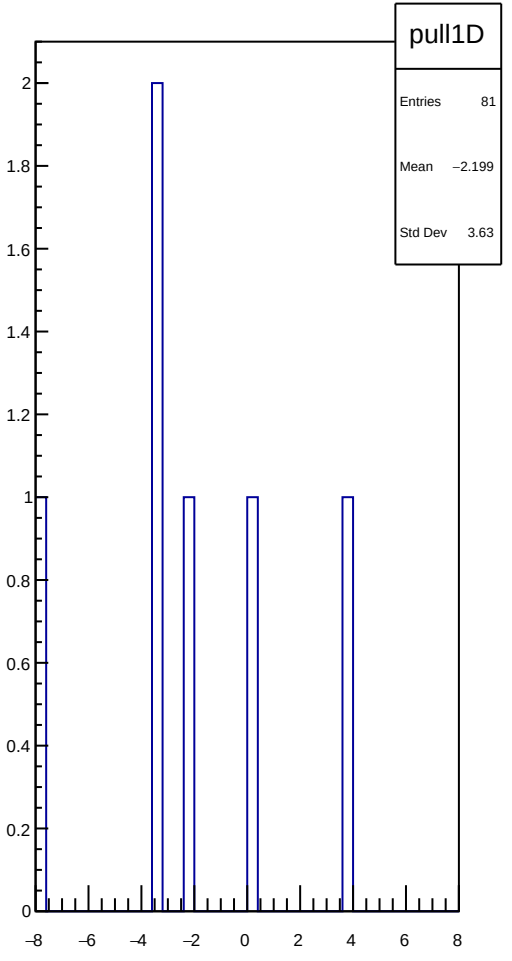

yield_bpm4aX_rms vs run
χ² / ndf 3.111e+05 / 80
p0 0.01607 ± 1.444e−05
0.1
0.08
0.06
0.04
0.02

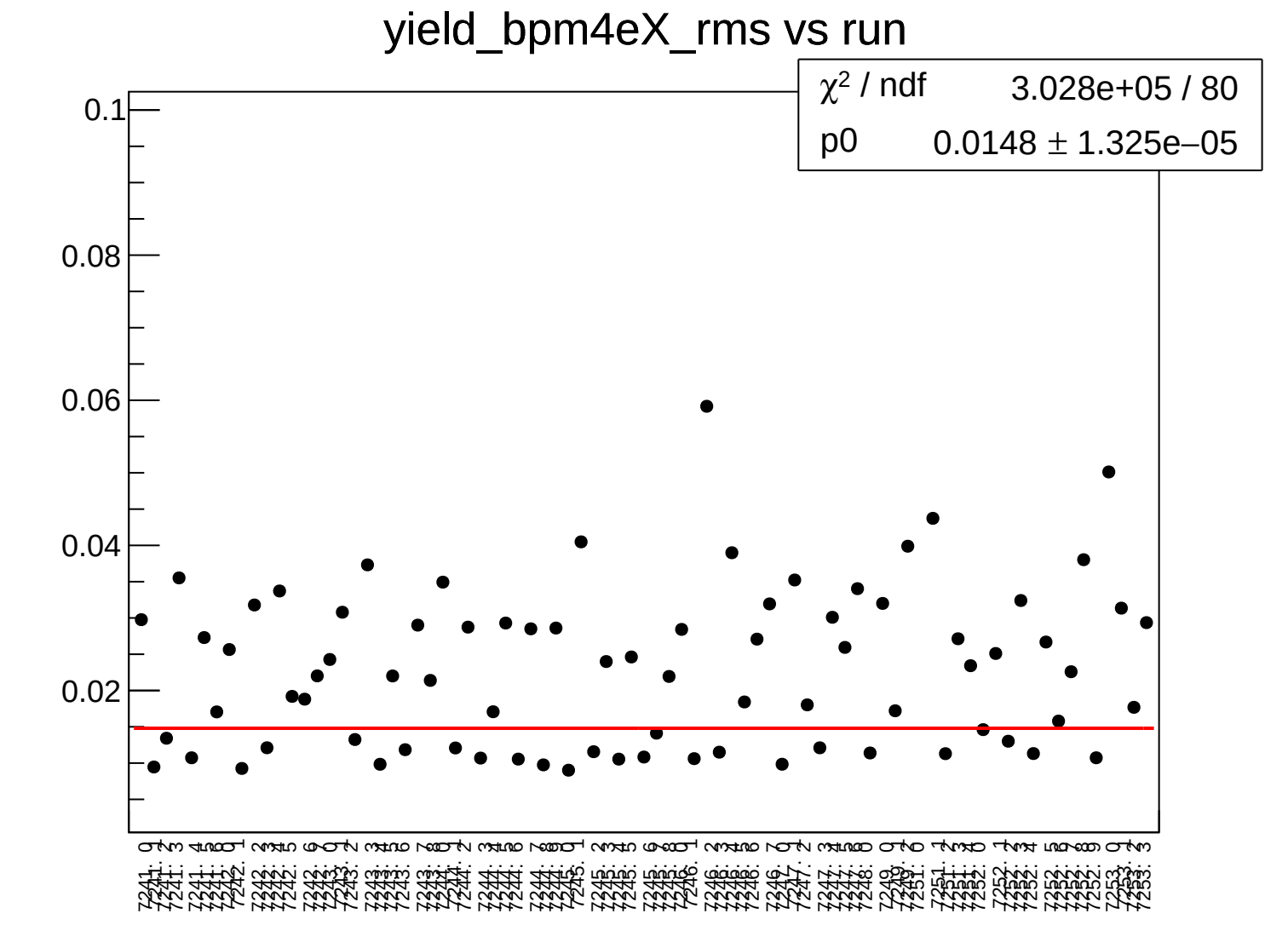

yield_bpm4aY_mean vs run
χ² / ndf 7.205e+04 / 80
p0 0.529 ± 1.274e−05
0.535
0.53
0.525
0.52
0.515
pull
Entries 81
Mean −168.3
Std Dev 0
60
40
20
0
−20
−40
−60
−80

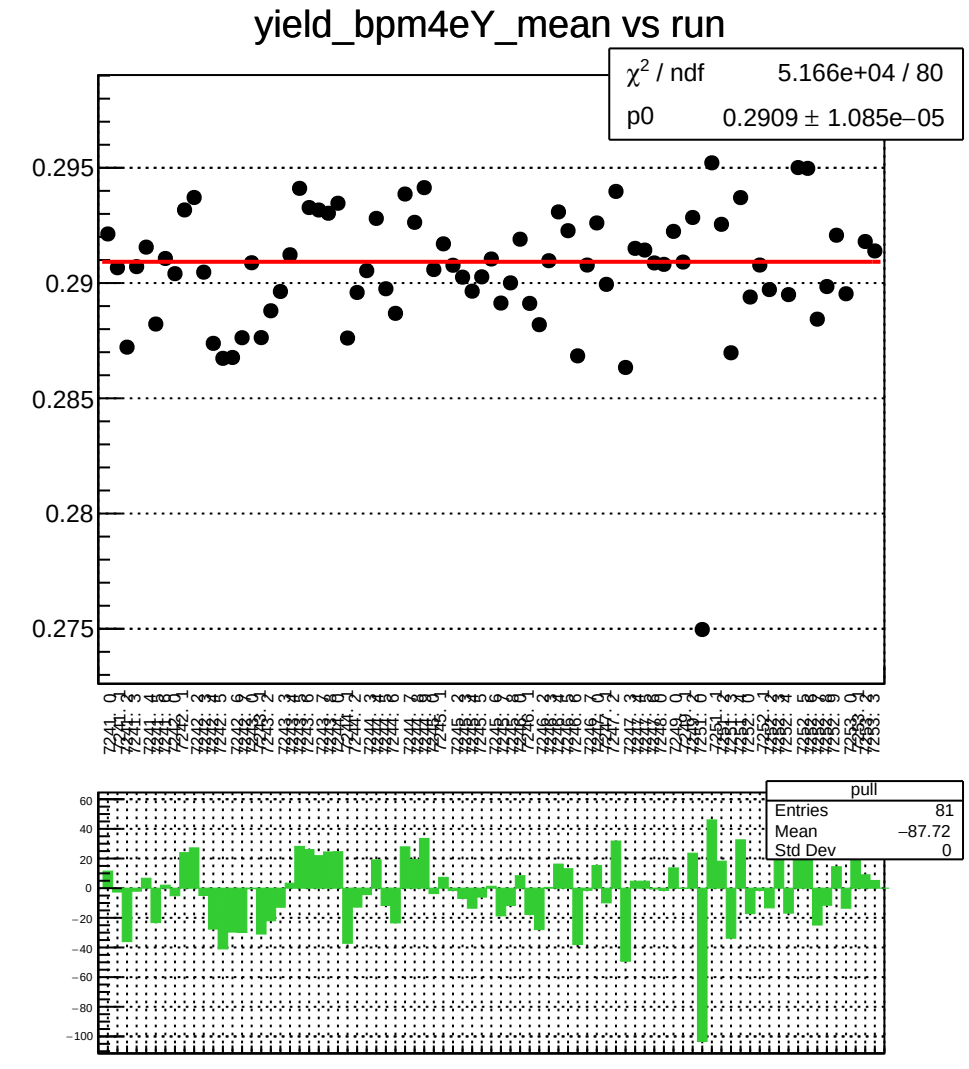

pull1D
Entries 81
Mean −0.8359
Std Dev 5.641
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

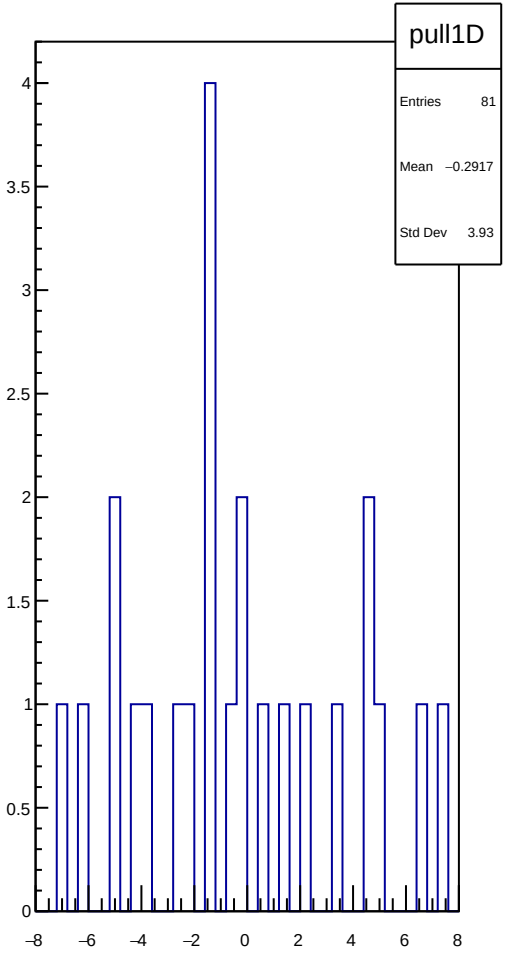

yield_bpm4aY_rms vs run
χ² / ndf 1.13e+04 / 80
p0 0.01117 ± 9.006e−06
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009

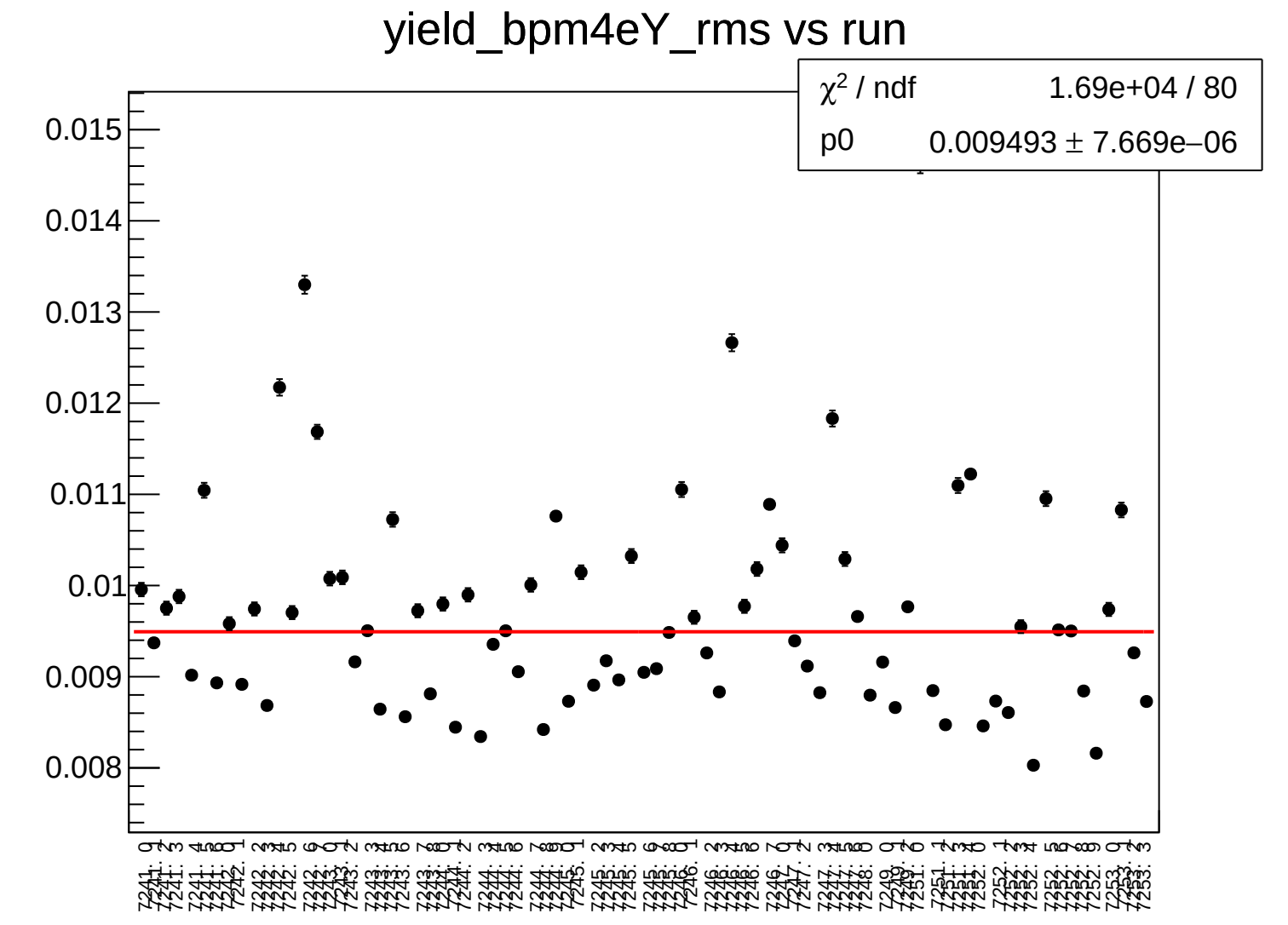

yield_bpm4eX_mean vs run
χ² / ndf 3.013e+05 / 80
p0 −0.3423 ± 1.874e−05
−0.26
−0.28
−0.3
−0.32
−0.34
−0.36
pull
Entries 81
Mean 41.03
Std Dev 27.38
100
50
0
−50
−100

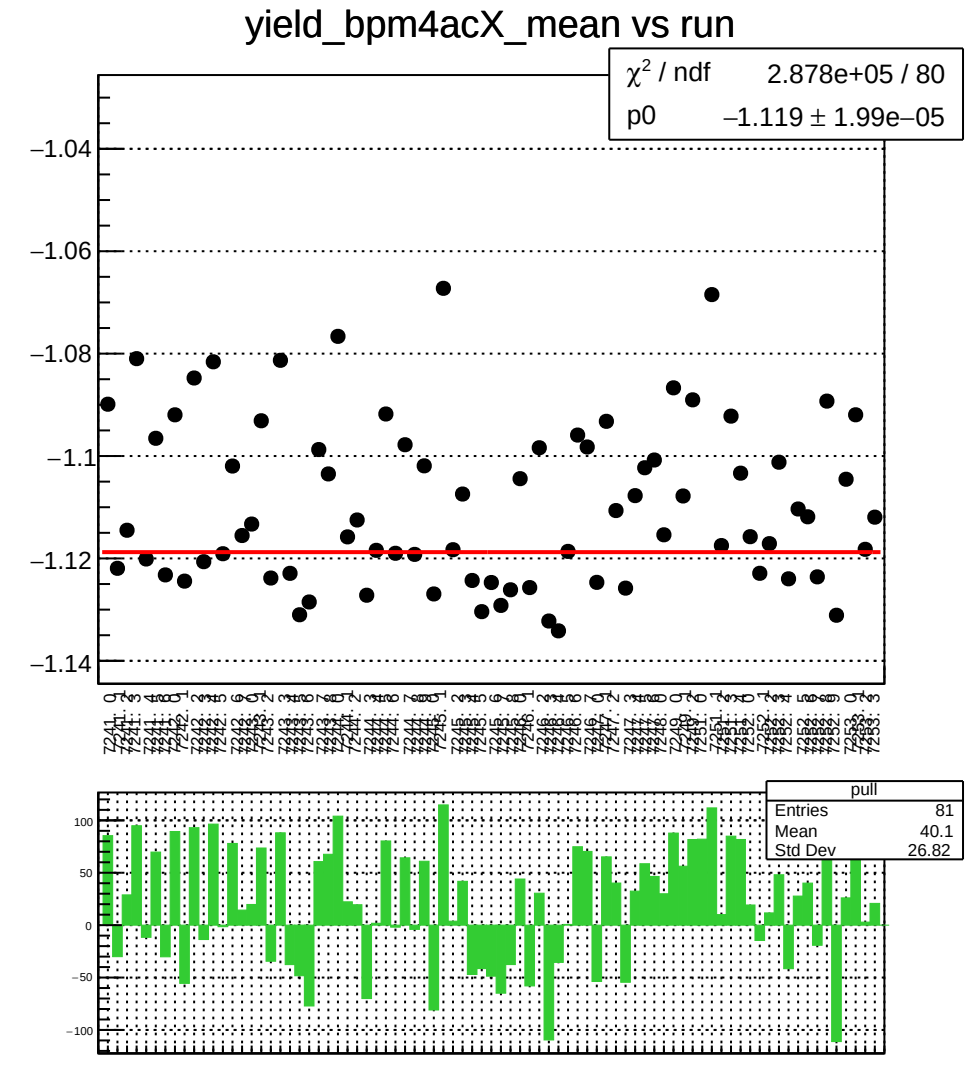

pull1D
Entries 81
Mean −2.199
Std Dev 3.63
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

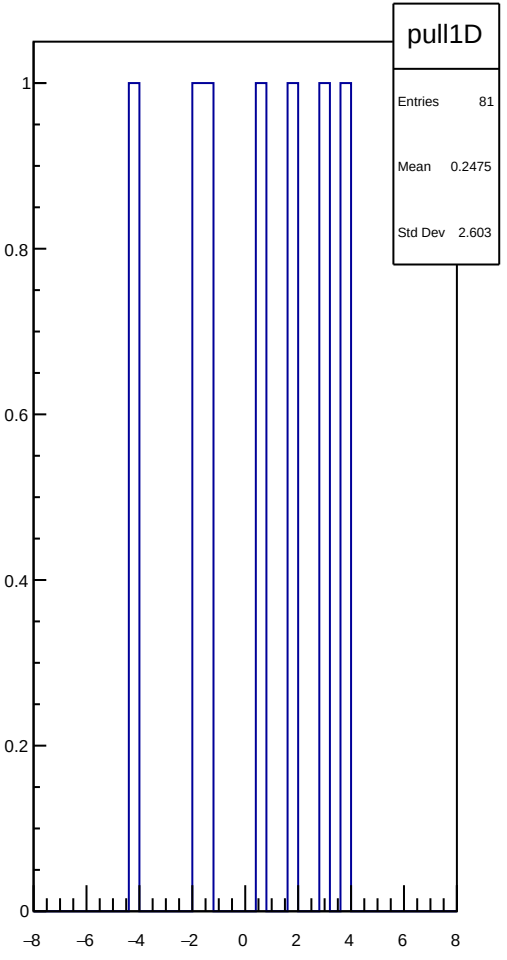

yield_bpm4eX_rms vs run
χ² / ndf 3.028e+05 / 80
p0 0.0148 ± 1.325e−05
0.1
0.08
0.06
0.04
0.02

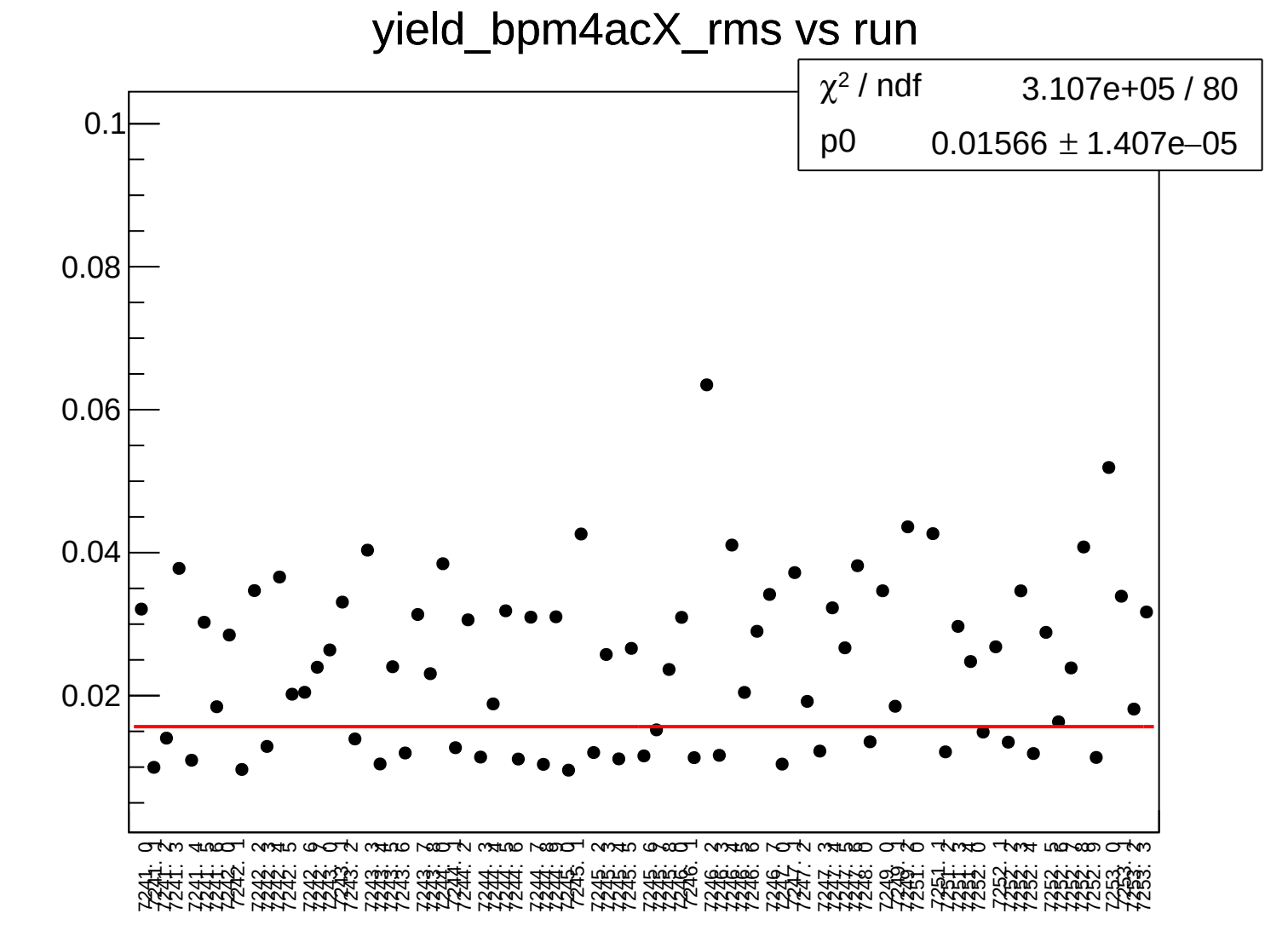

yield_bpm4eY_mean vs run
χ² / ndf 5.166e+04 / 80
p0 0.2909 ± 1.085e−05
0.295
0.29
0.285
0.28
0.275
pull
Entries 81
Mean −87.72
Std Dev 0
60
40
20
0
−20
−40
−60
−80
−100

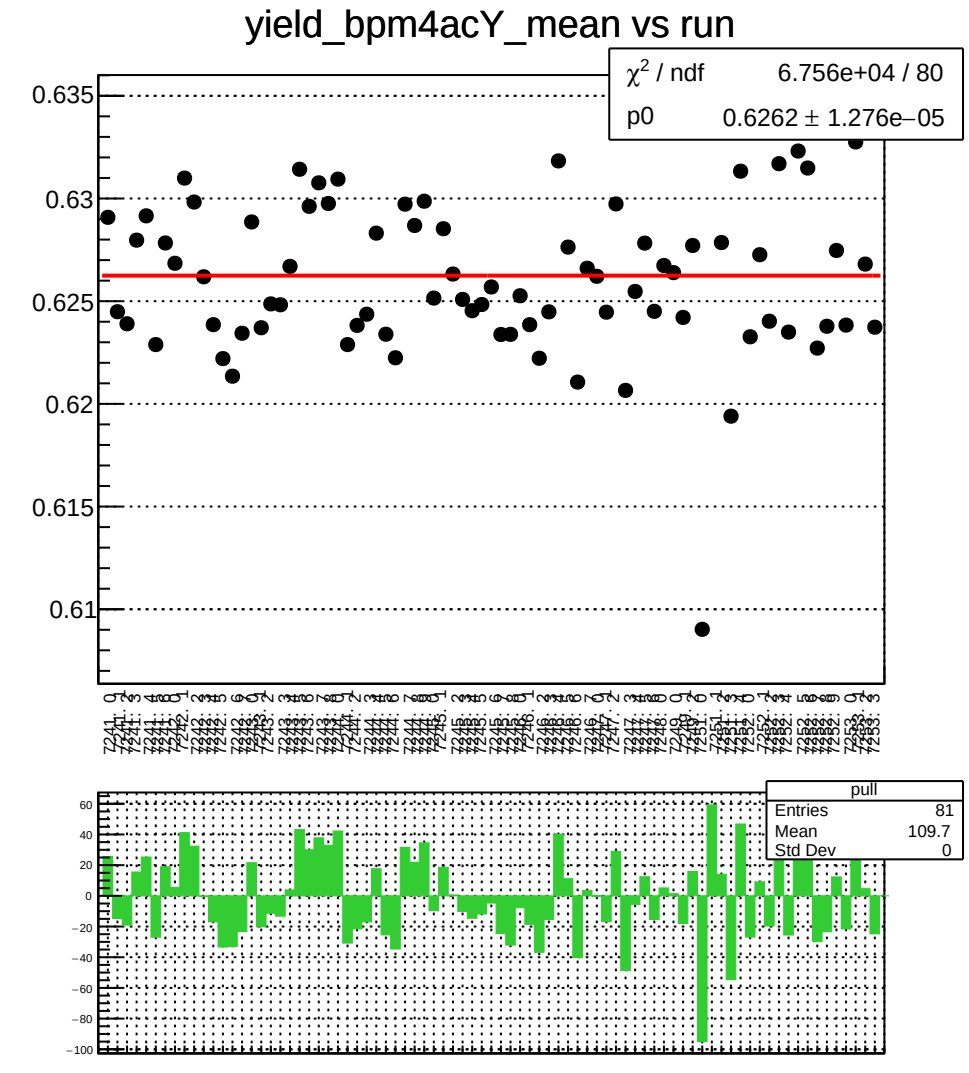

pull1D
Entries 81
Mean −0.2917
Std Dev 3.93
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

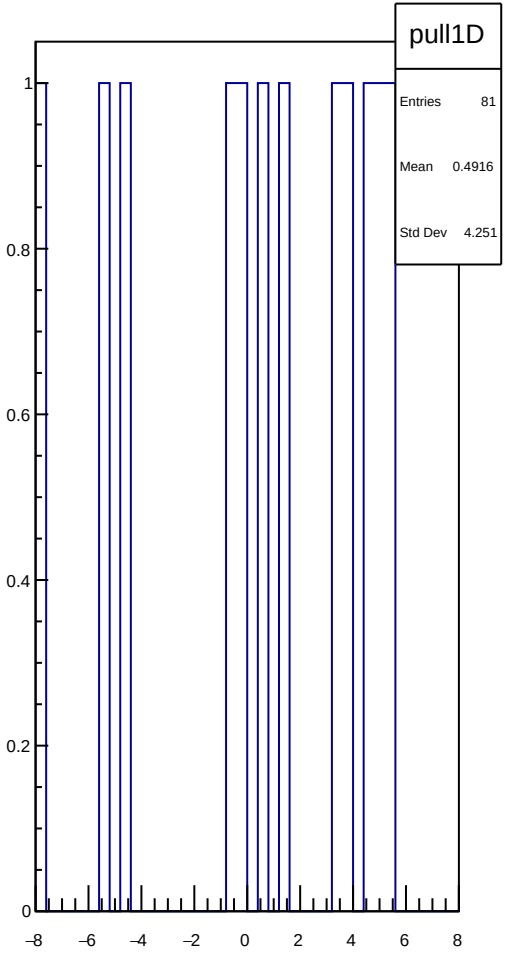

yield_bpm4eY_rms vs run
χ² / ndf 1.69e+04 / 80
p0 0.009493 ± 7.669e−06
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008

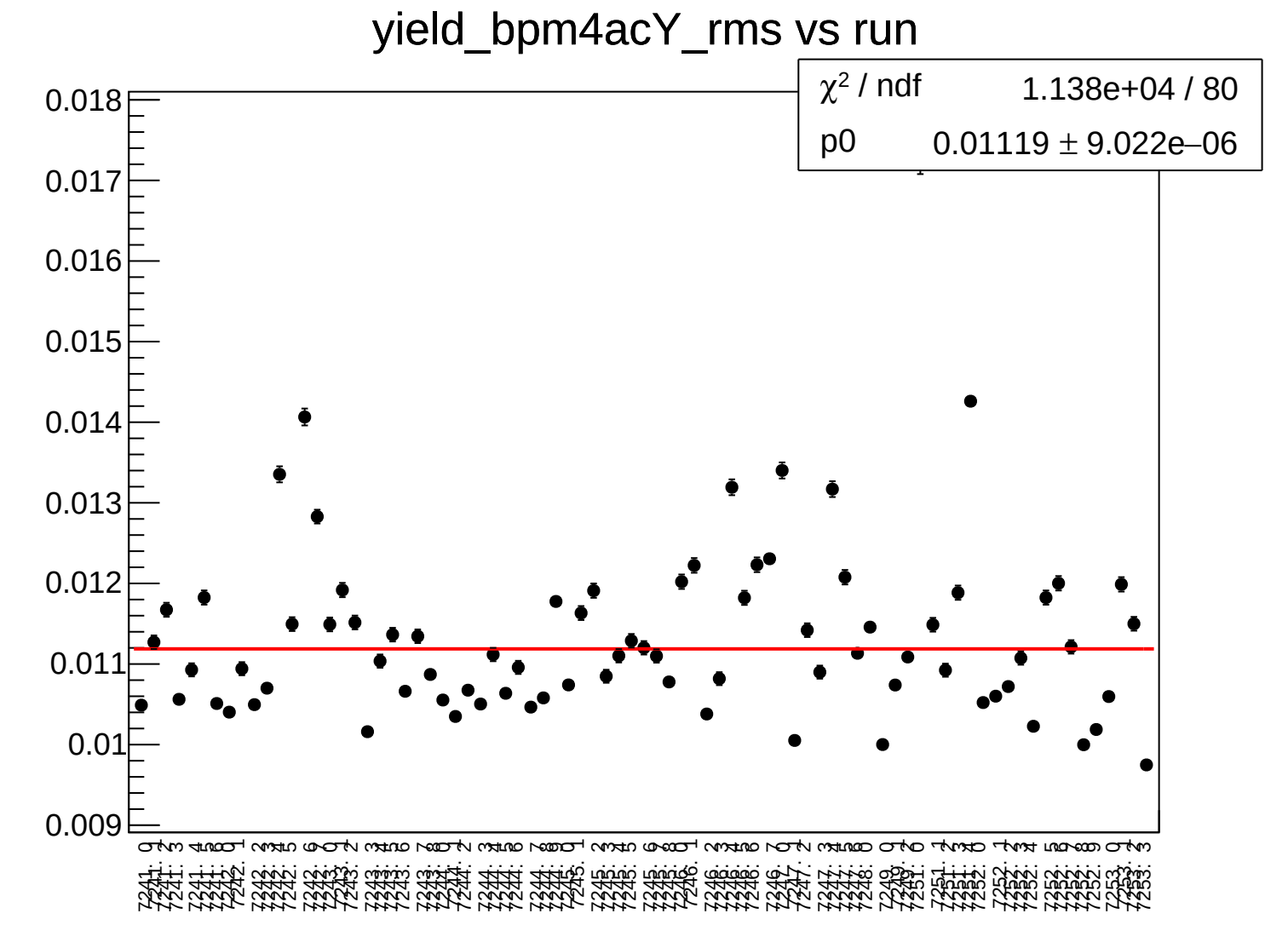

yield_bpm4acX_mean vs run
χ² / ndf 2.878e+05 / 80
p0 −1.119 ± 1.99e−05
−1.04
−1.06
−1.08
−1.1
−1.12
−1.14
pull
Entries 81
Mean 40.1
Std Dev 26.82
100
50
0
−50
−100

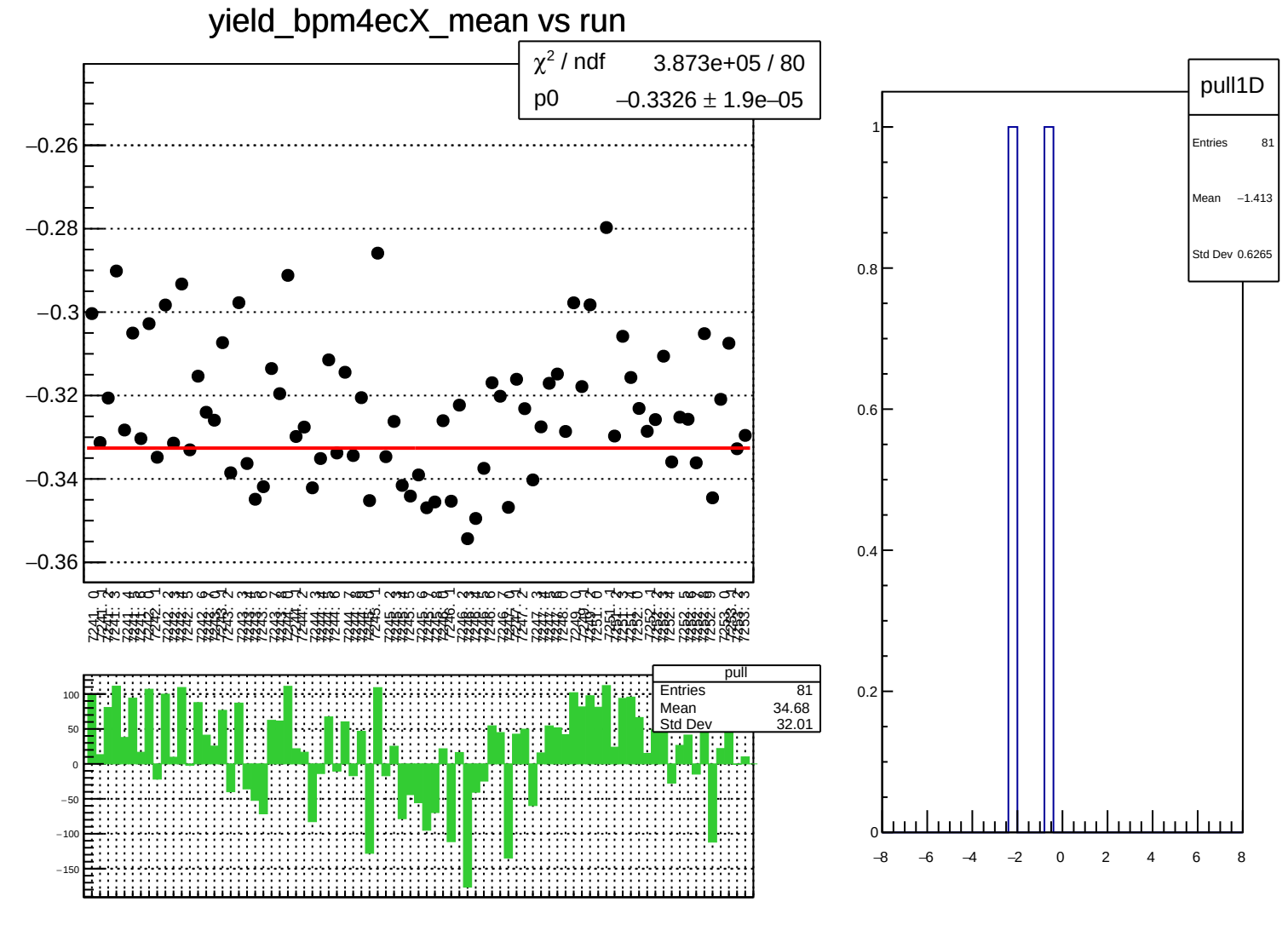

pull1D
Entries 81
Mean 0.2475
Std Dev 2.603
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

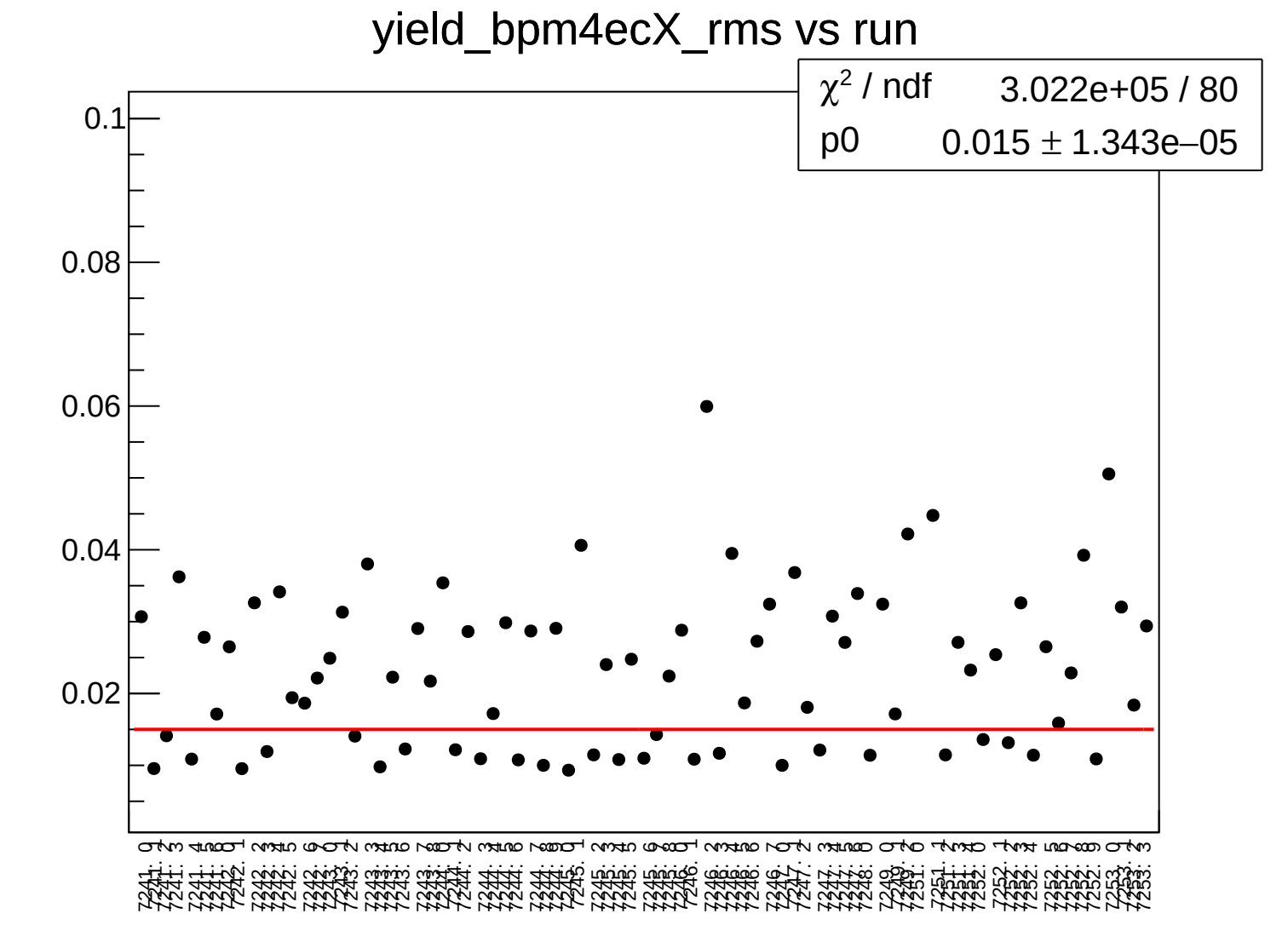

yield_bpm4acX_rms vs run
χ² / ndf 3.107e+05 / 80
p0 0.01566 ± 1.407e−05
0.1
0.08
0.06
0.04
0.02

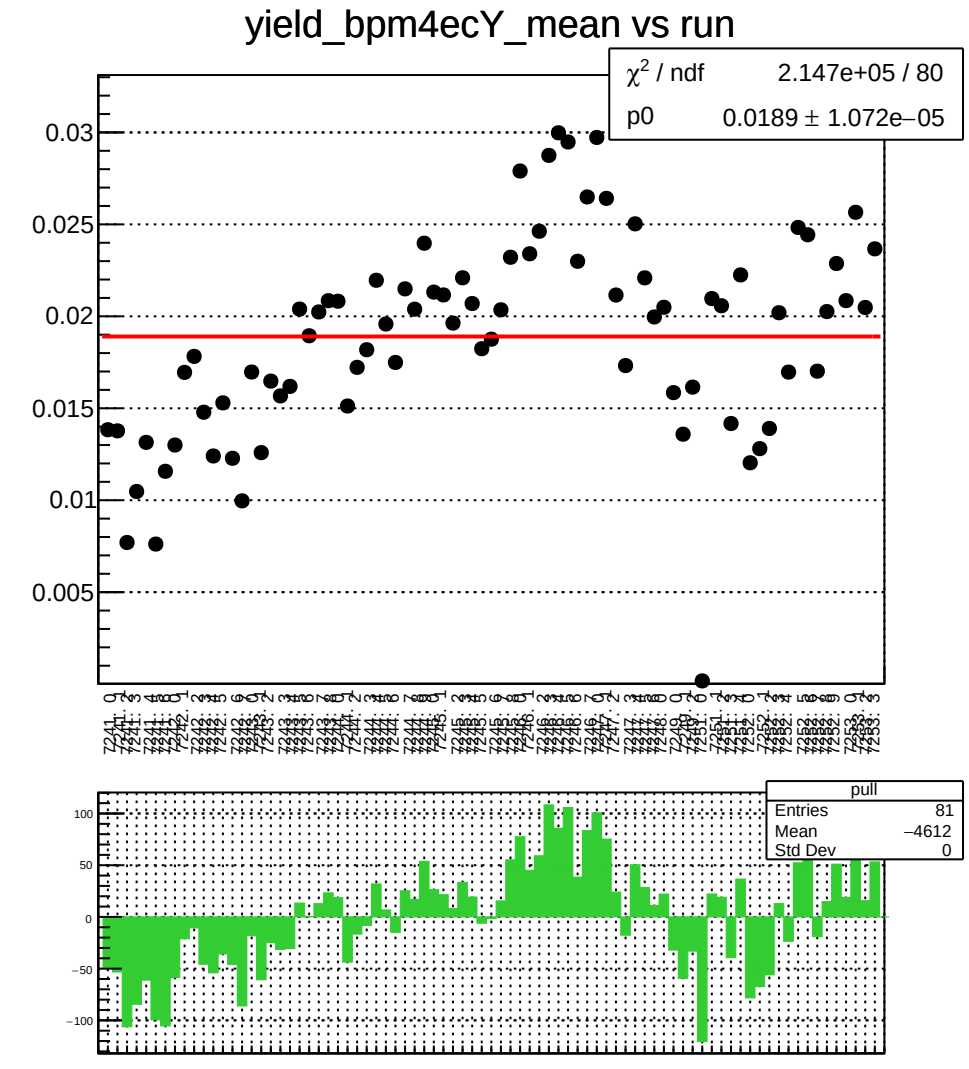

yield_bpm4acY_mean vs run
χ² / ndf 6.756e+04 / 80
p0 0.6262 ± 1.276e−05
0.635
0.63
0.625
0.62
0.615
0.61
pull
Entries 81
Mean 109.7
Std Dev 0
60
40
20
0
−20
−40
−60
−80
−100

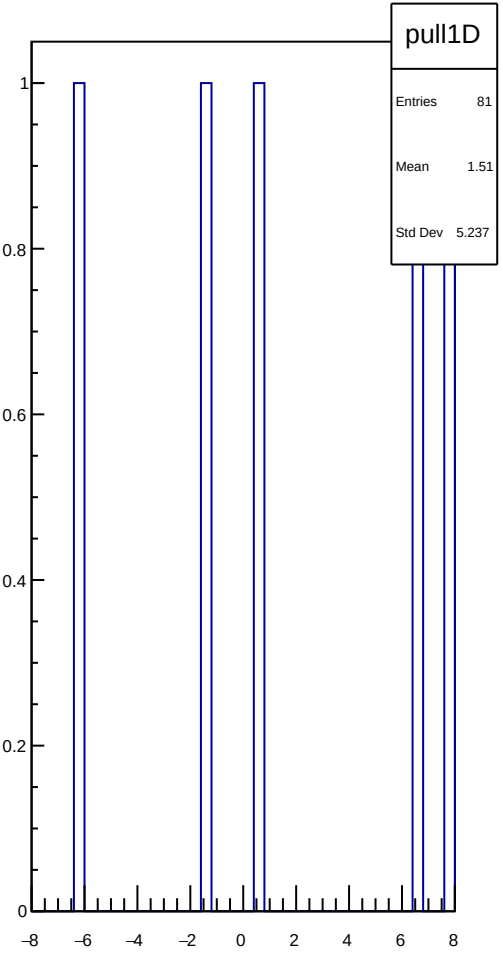

pull1D
Entries 81
Mean 0.4916
Std Dev 4.251
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

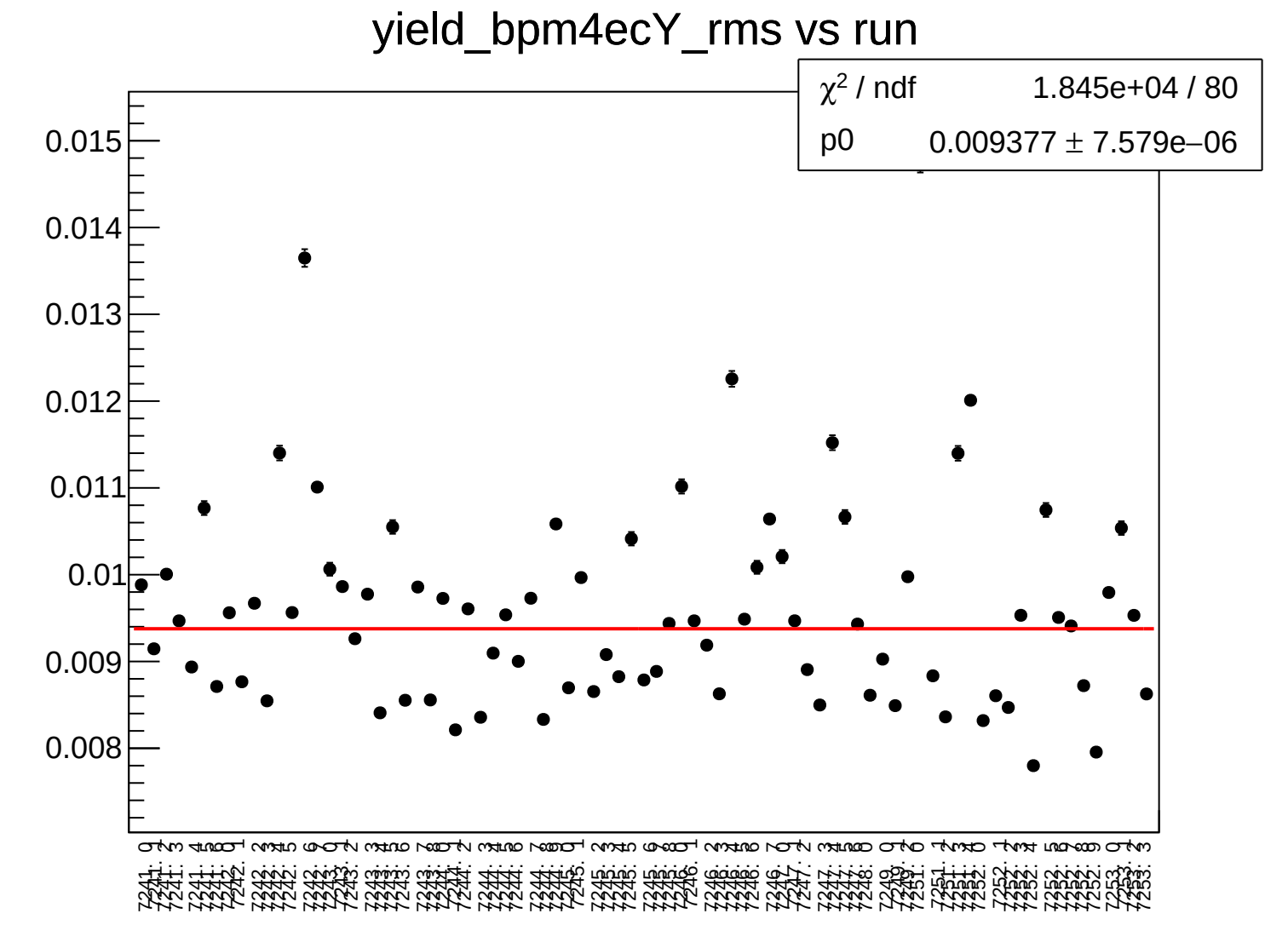

yield_bpm4acY_rms vs run
χ² / ndf 1.138e+04 / 80
p0 0.01119 ± 9.022e−06
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009

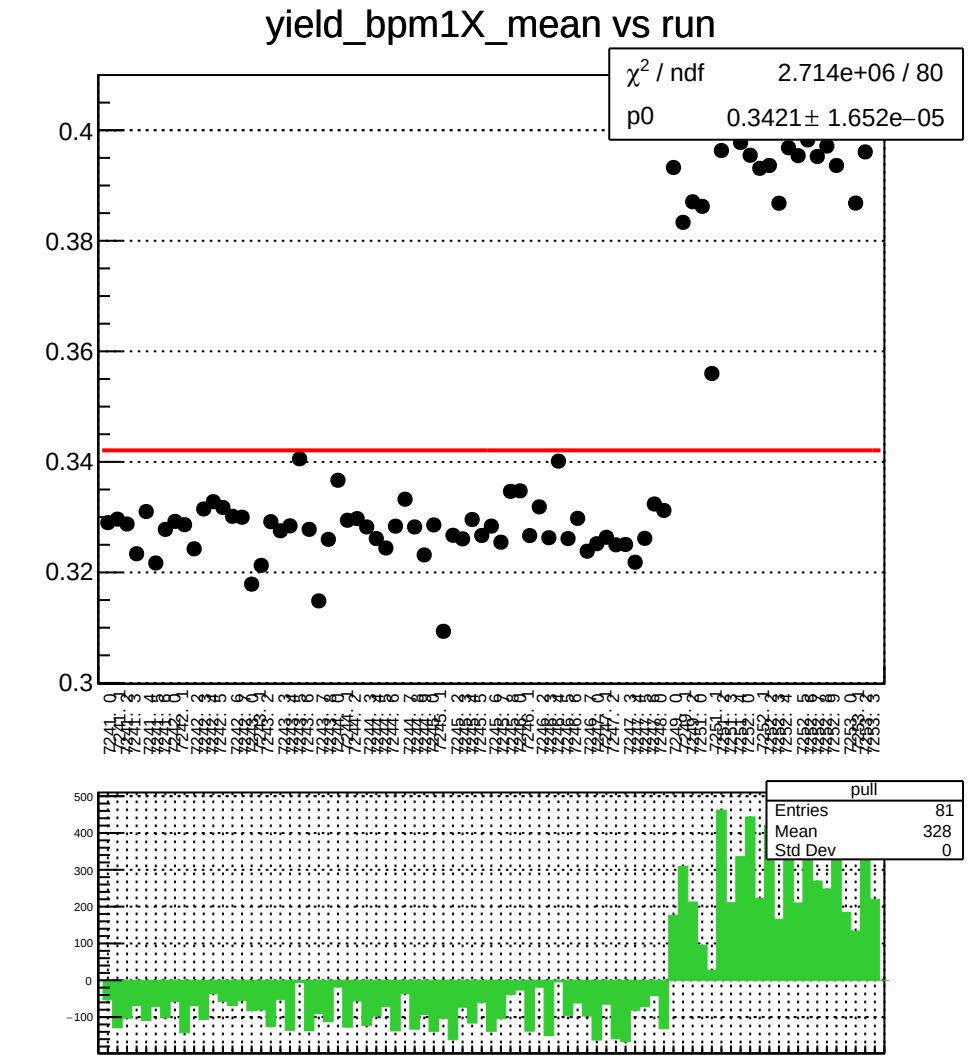

yield_bpm4ecX_mean vs run
χ² / ndf 3.873e+05 / 80
p0 −0.3326 ± 1.9e−05
−0.26
−0.28
−0.3
−0.32
−0.34
−0.36
pull
Entries 81
Mean 34.68
Std Dev 32.01
100
50
0
−50
−100
−150
pull1D
Entries 81
Mean −1.413
Std Dev 0.6265
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

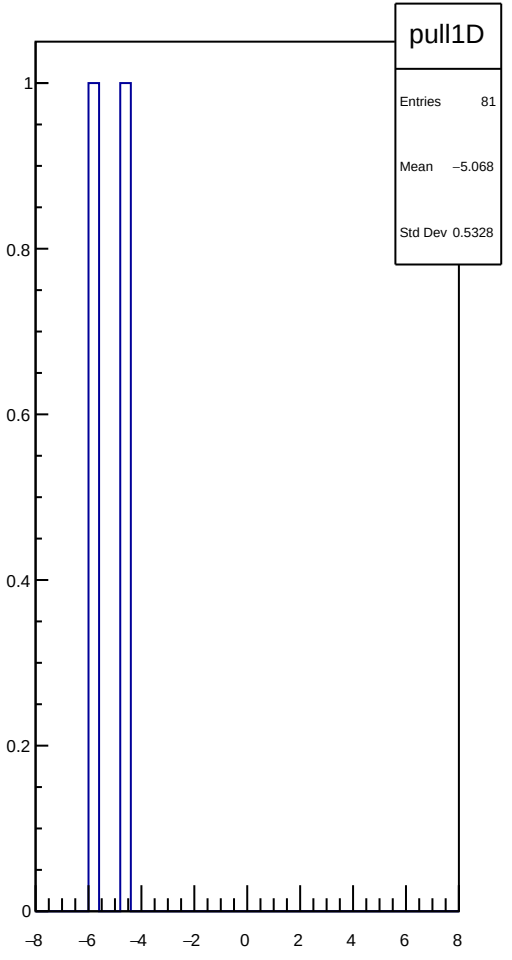

yield_bpm4ecX_rms vs run
χ^2 / ndf 3.022e+05 / 80
p0 0.015 ± 1.343e−05
0.1
0.08
0.06
0.04
0.02

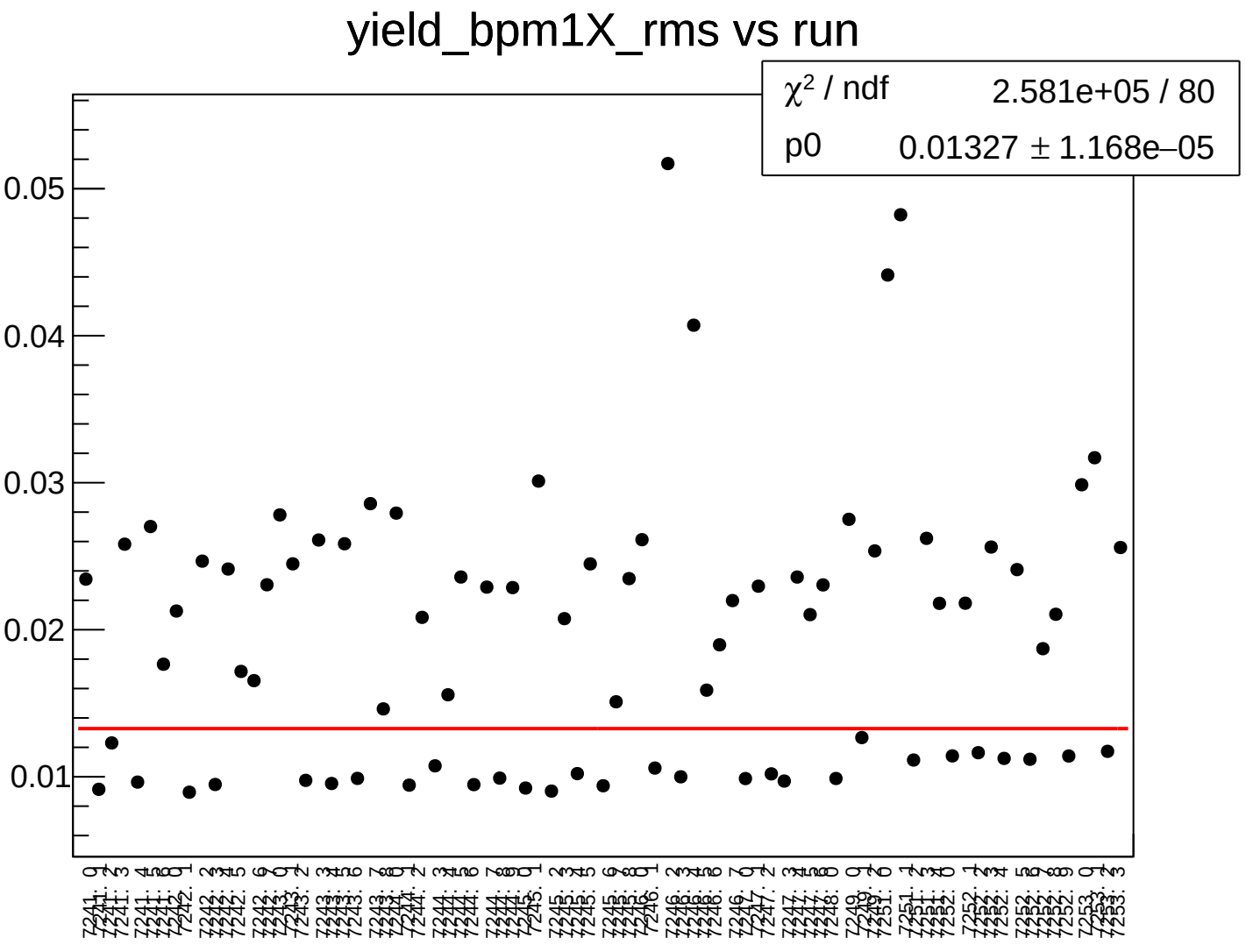

yield_bpm4ecY_mean vs run
χ² / ndf 2.147e+05 / 80
p0 0.0189 ± 1.072e−05
0.03
0.025
0.02
0.015
0.01
0.005
pull
Entries 81
Mean −4612
Std Dev 0
100
50
0
−50
−100

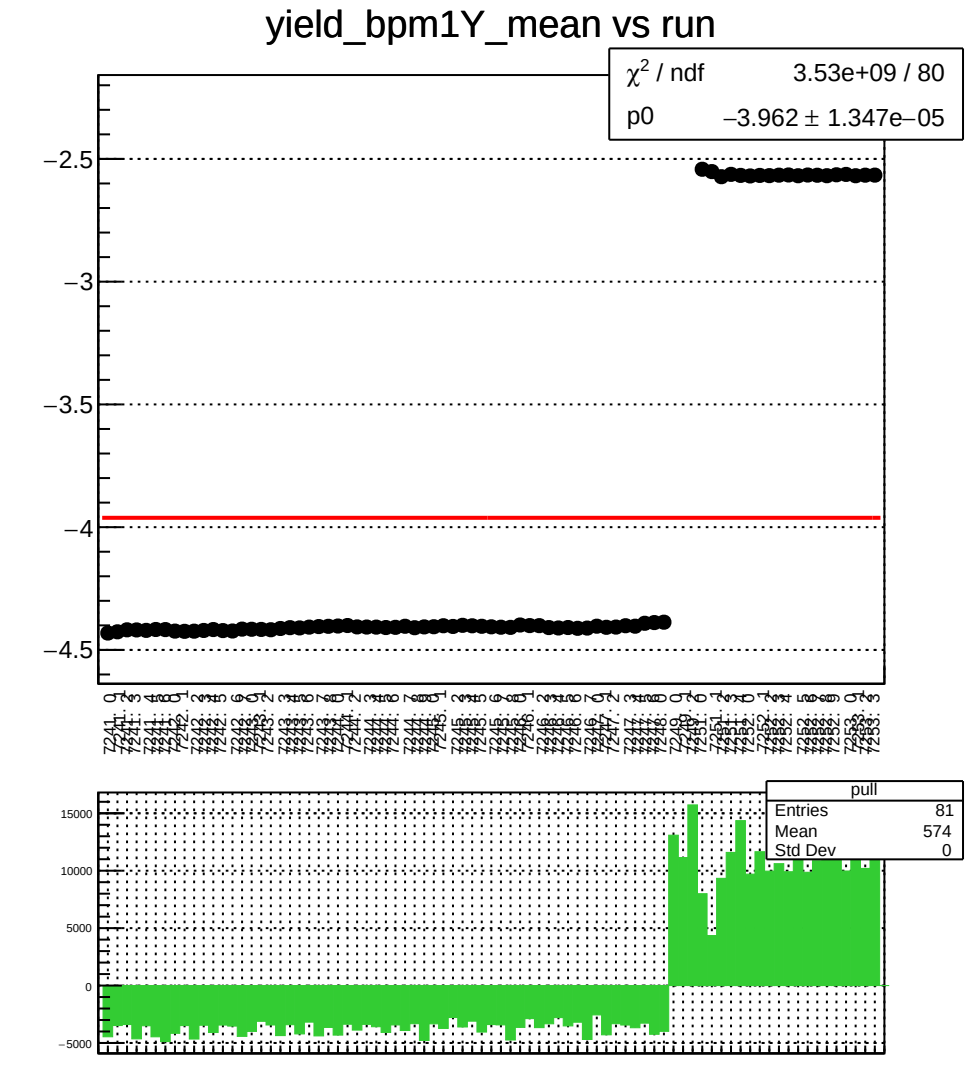

pull1D
Entries 81
Mean 1.51
Std Dev 5.237
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

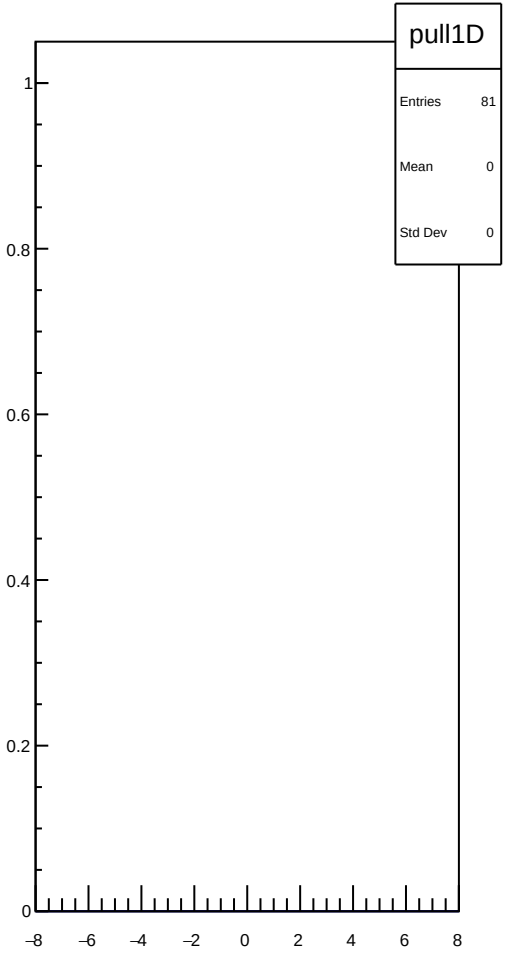

yield_bpm4ecY_rms vs run
χ² / ndf 1.845e+04 / 80
p0 0.009377 ± 7.579e−06
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008

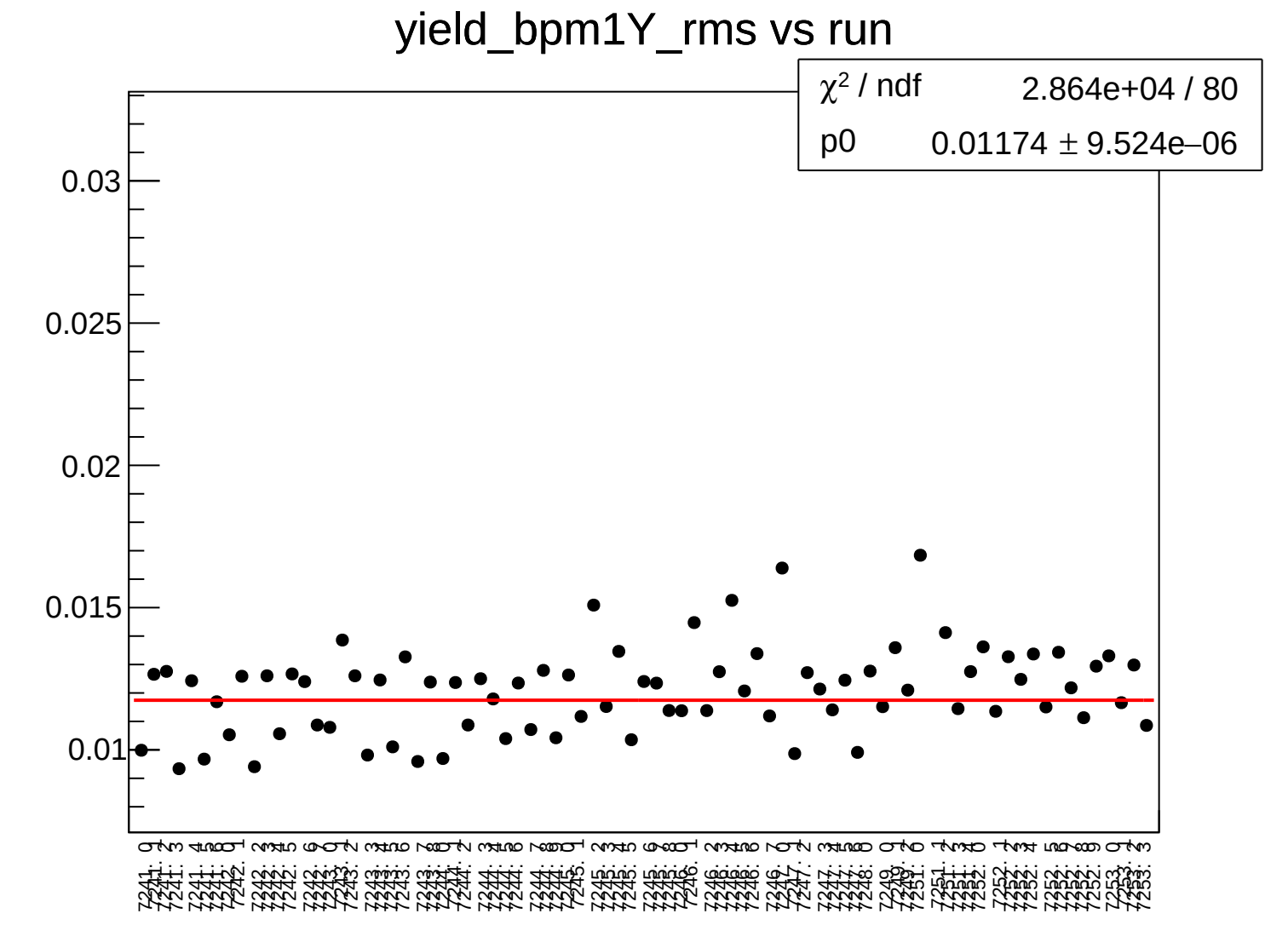

yield_bpm1X_mean vs run
χ² / ndf 2.714e+06 / 80
p0 0.3421 ± 1.652e−05
0.4
0.38
0.36
0.34
0.32
0.3
pull
Entries 81
Mean 328
Std Dev 0
500
400
300
200
100
0
−100

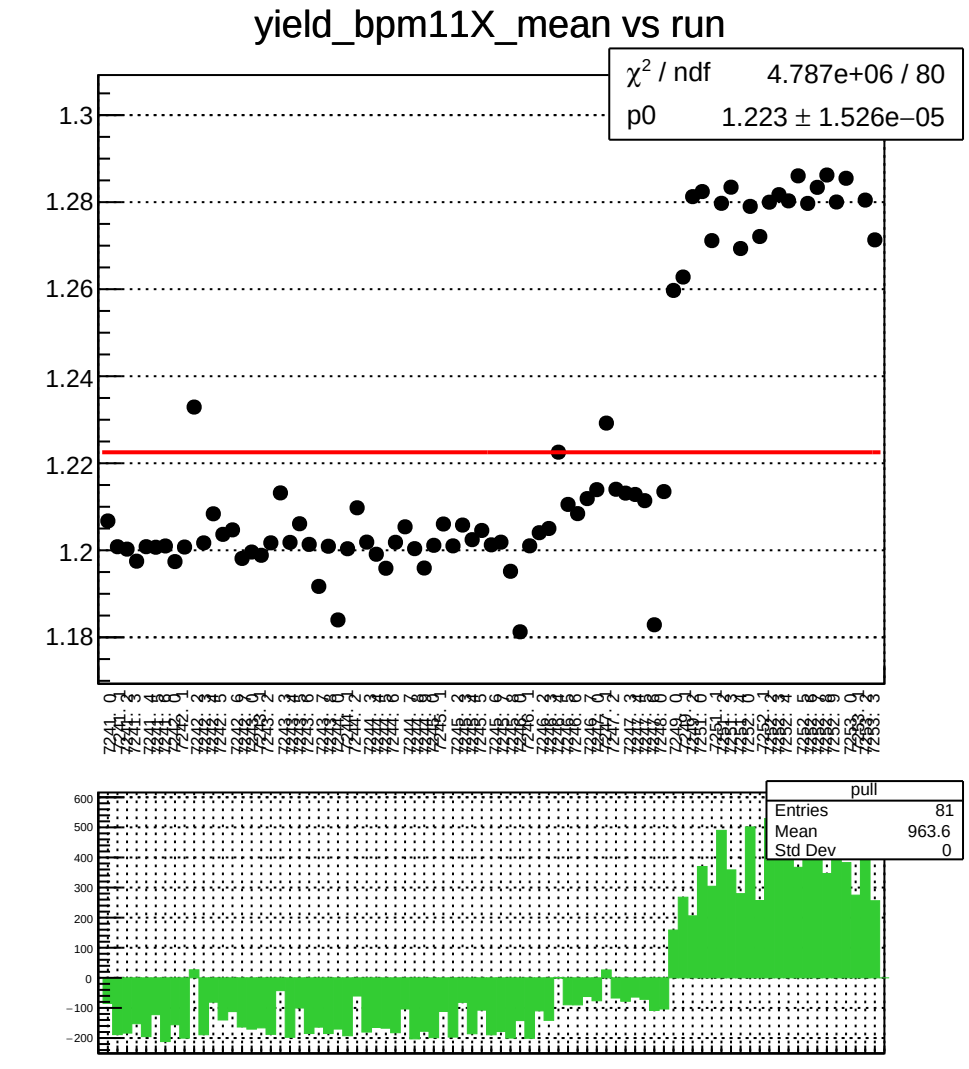

pull1D
Entries 81
Mean −5.068
Std Dev 0.5328
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

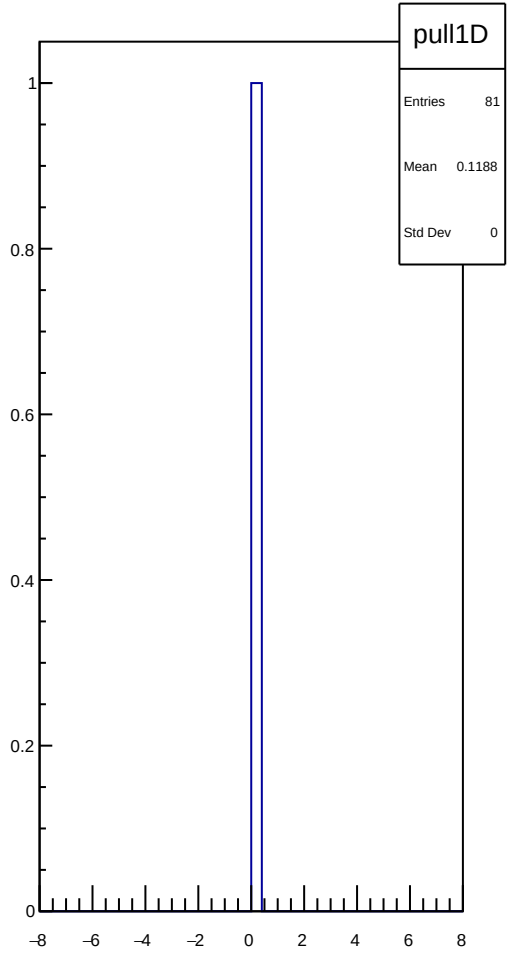

yield_bpm1X_rms vs run
χ² / ndf 2.581e+05 / 80
p0 0.01327 ± 1.168e−05
0.05
0.04
0.03
0.02
0.01

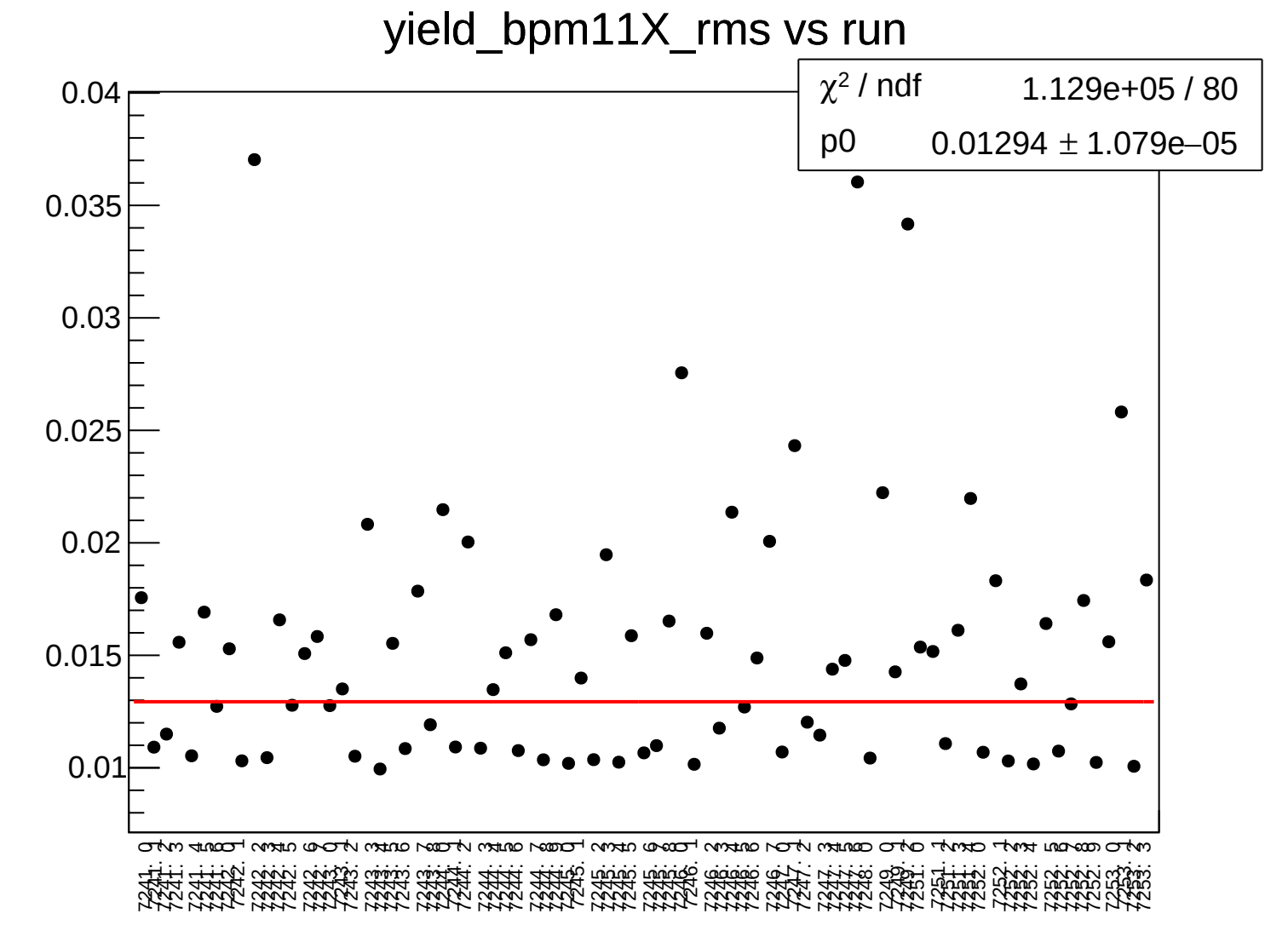

yield_bpm1Y_mean vs run
χ² / ndf 3.53e+09 / 80
p0 −3.962 ± 1.347e−05
−2.5
−3
−3.5
−4
−4.5
pull
Entries 81
Mean 574
Std Dev 0
15000
10000
5000
0
−5000

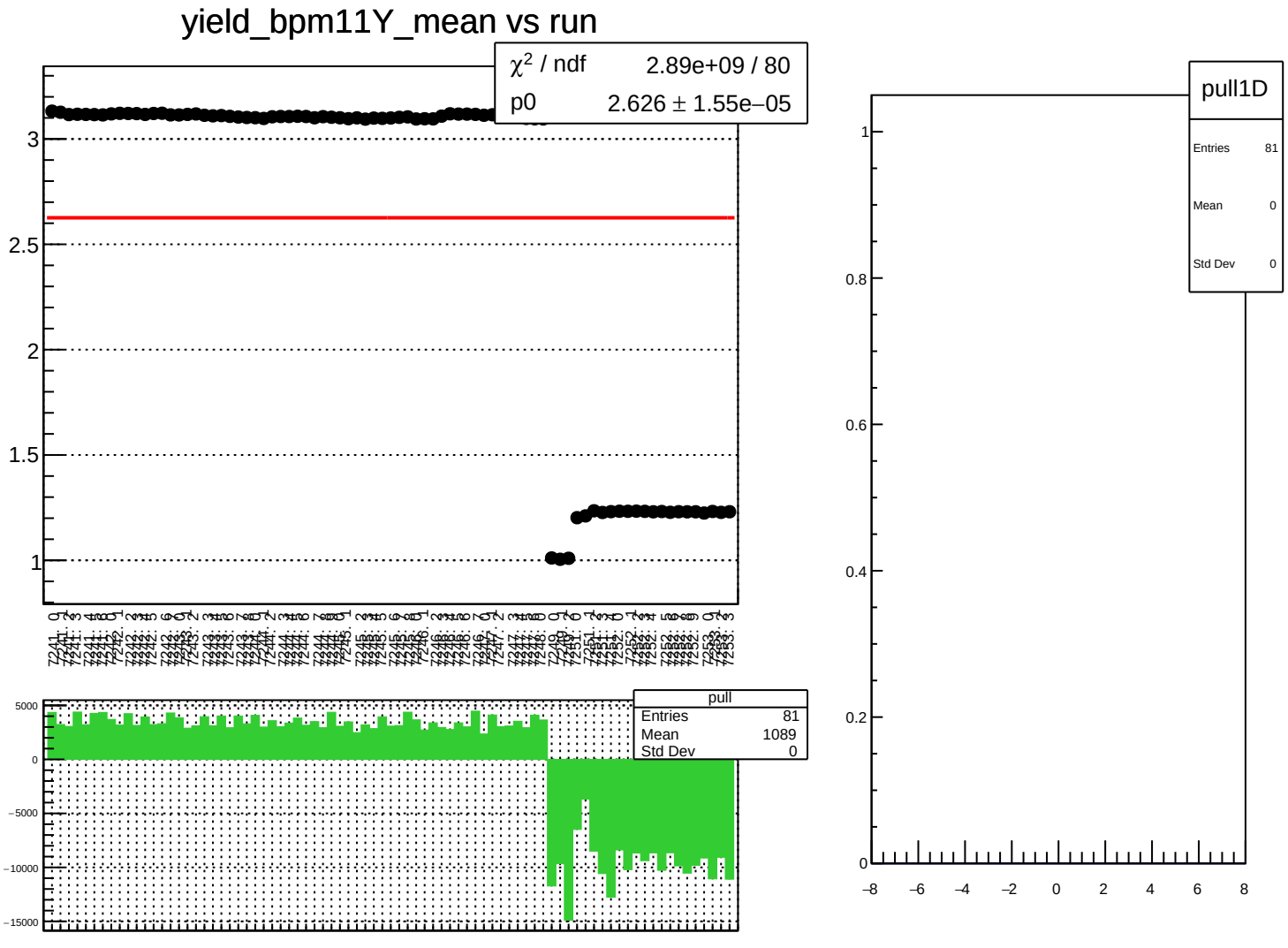

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

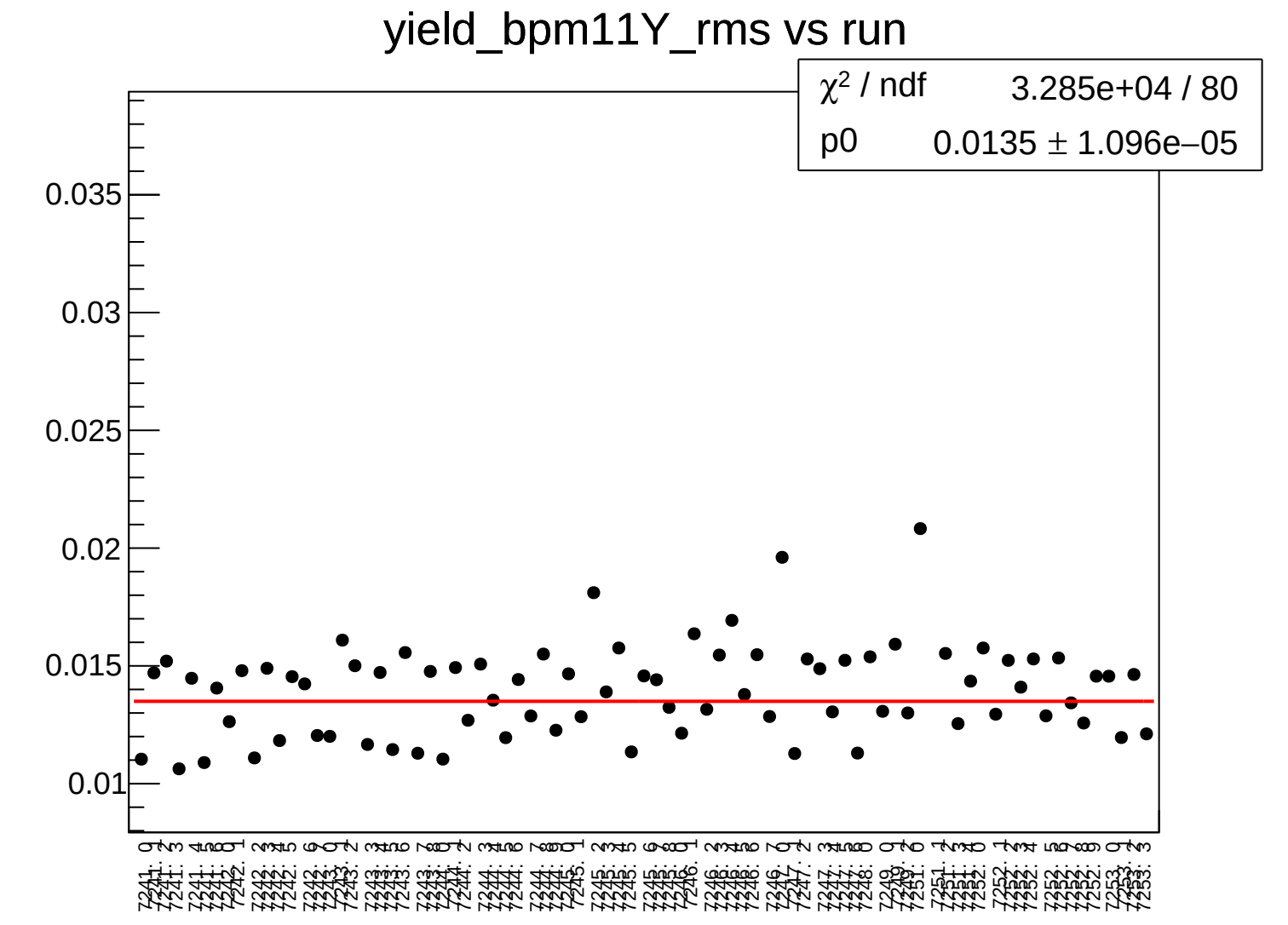

yield_bpm1Y_rms vs run
χ² / ndf 2.864e+04 / 80
p0 0.01174 ± 9.524e–06
0.03
0.025
0.02
0.015
0.01

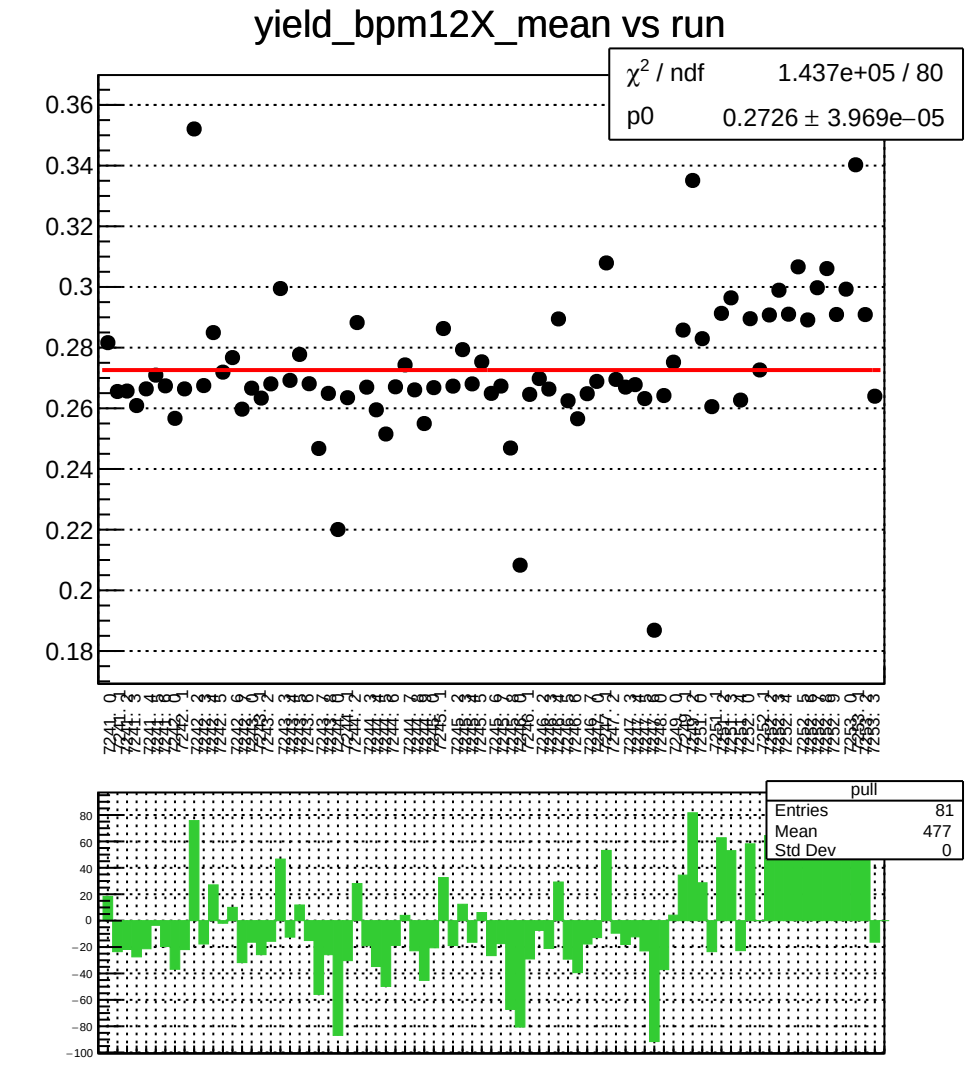

yield_bpm11X_mean vs run
χ² / ndf 4.787e+06 / 80
p0 1.223 ± 1.526e−05
1.3
1.28
1.26
1.24
1.22
1.2
1.18
pull
Entries 81
Mean 963.6
Std Dev 0
600
500
400
300
200
100
0
−100
−200

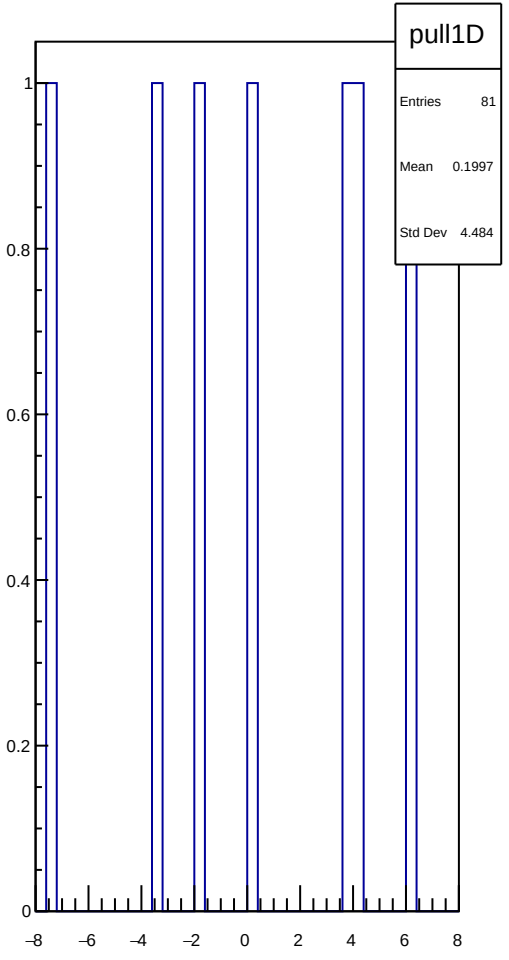

pull1D
Entries 81
Mean 0.1188
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

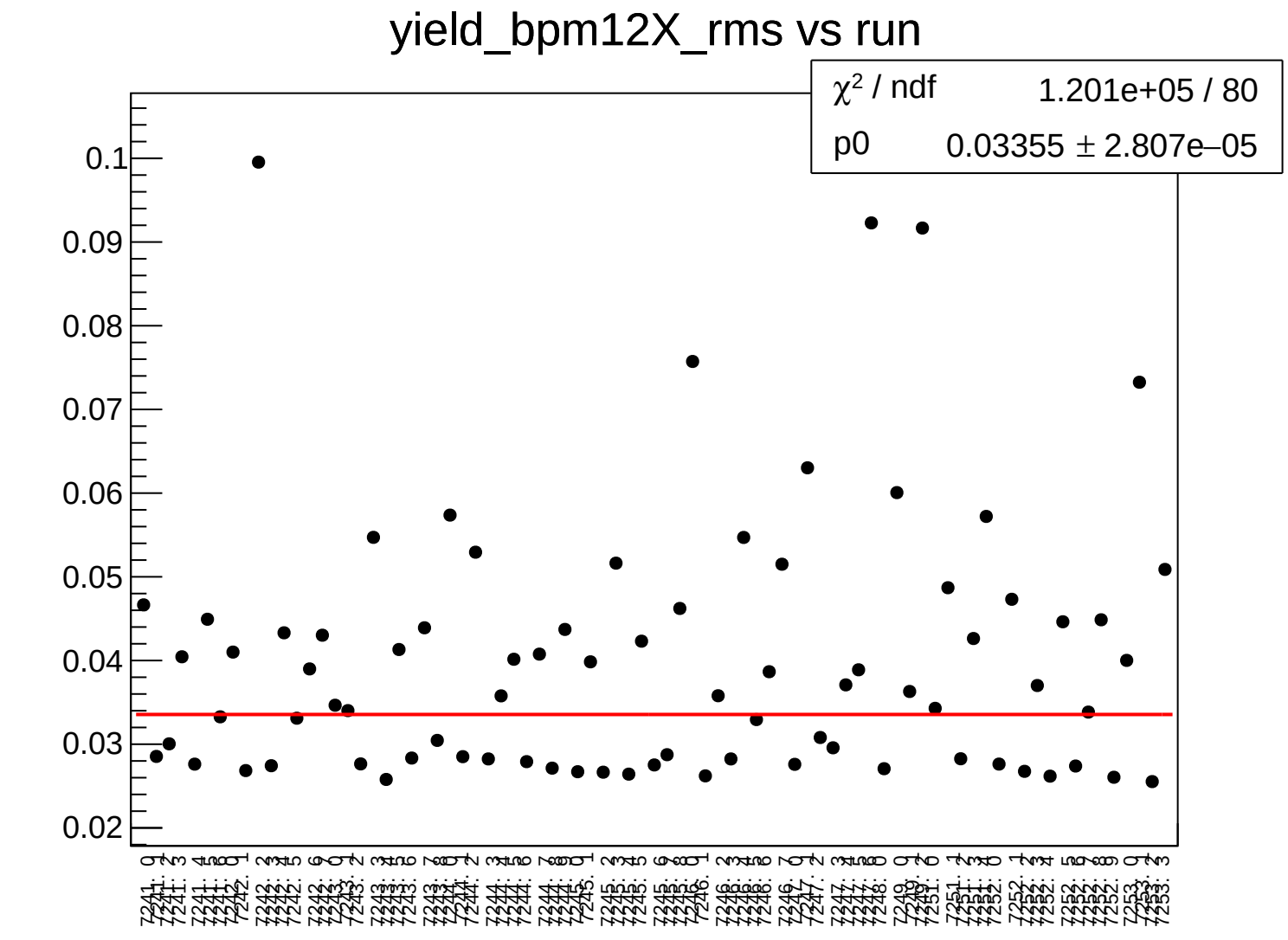

yield_bpm11X_rms vs run
χ² / ndf 1.129e+05 / 80
p0 0.01294 ± 1.079e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

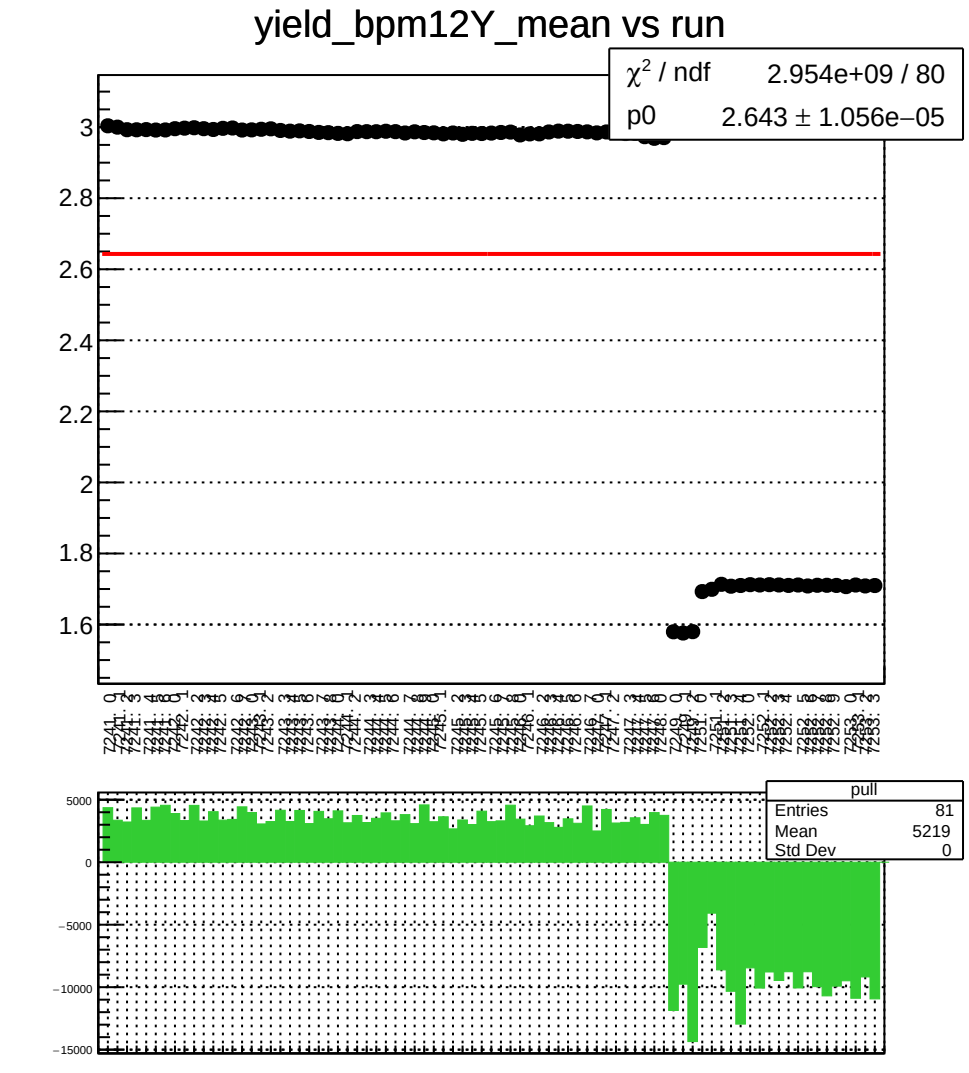

yield_bpm11Y_mean vs run
χ² / ndf 2.89e+09 / 80
p0 2.626 ± 1.55e−05
pull
Entries 81
Mean 1089
Std Dev 0
pull1D
Entries 81
Mean 0
Std Dev 0

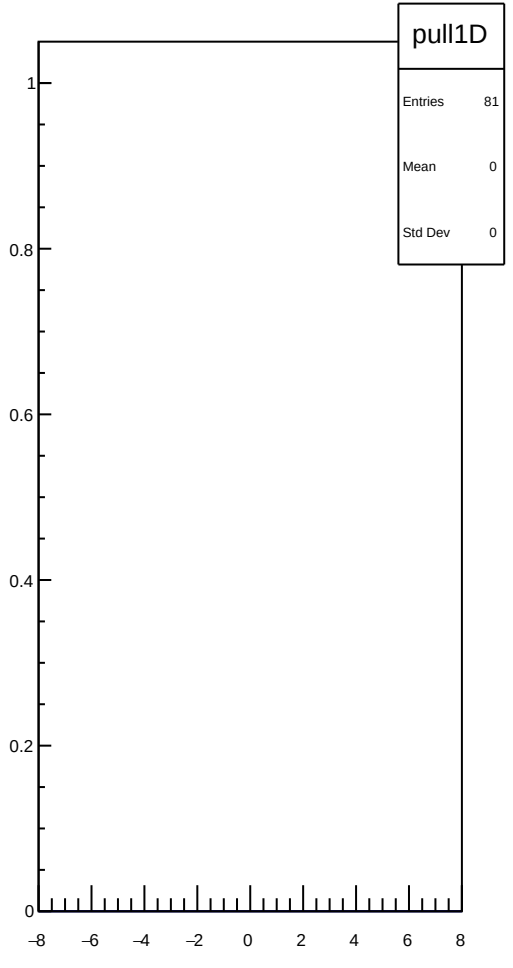

yield_bpm11Y_rms vs run
χ² / ndf 3.285e+04 / 80
p0 0.0135 ± 1.096e−05
0.035
0.03
0.025
0.02
0.015
0.01

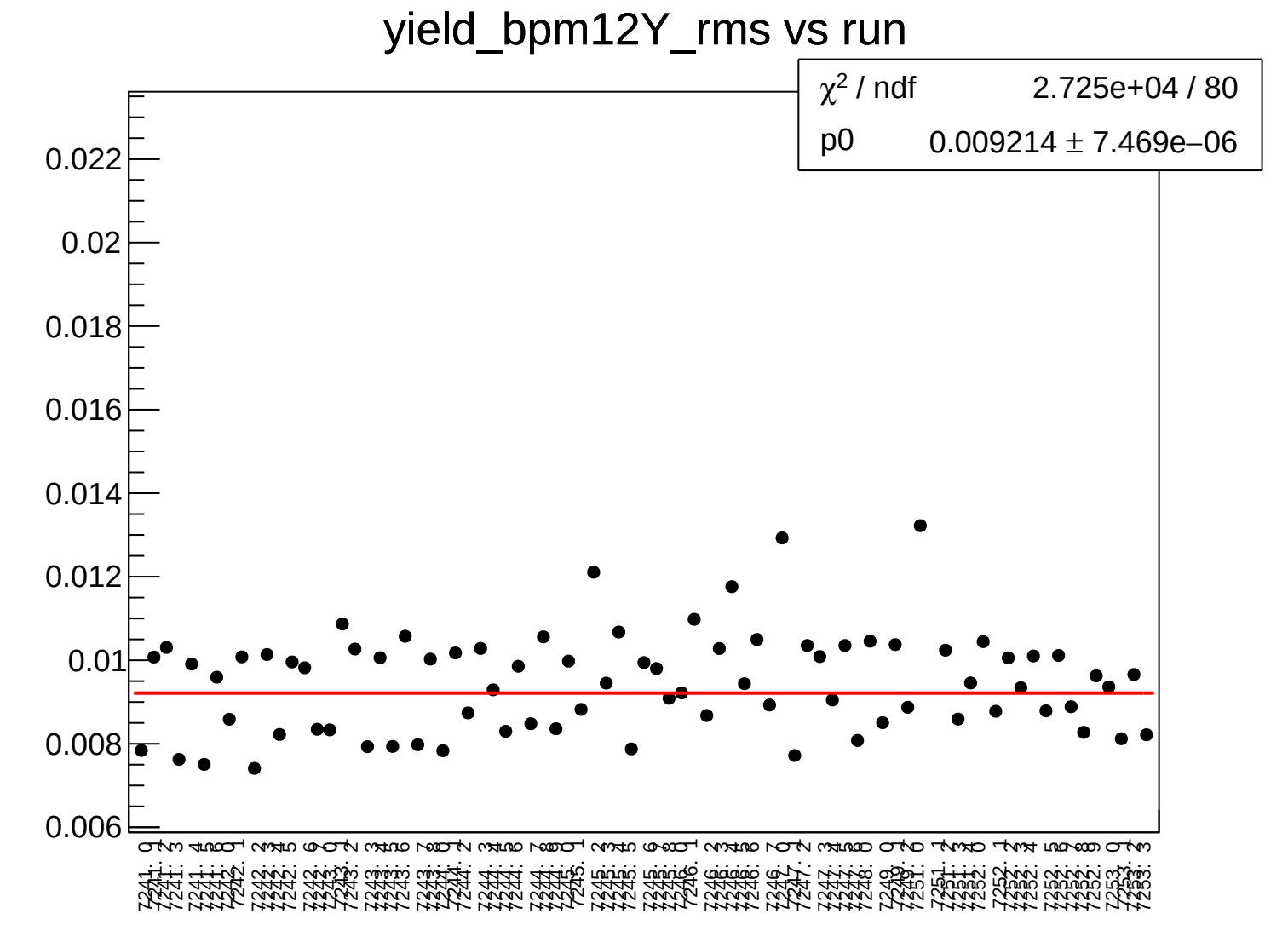

yield_bpm12X_mean vs run
χ² / ndf 1.437e+05 / 80
p0 0.2726 ± 3.969e−05
pull
Entries 81
Mean 477
Std Dev 0

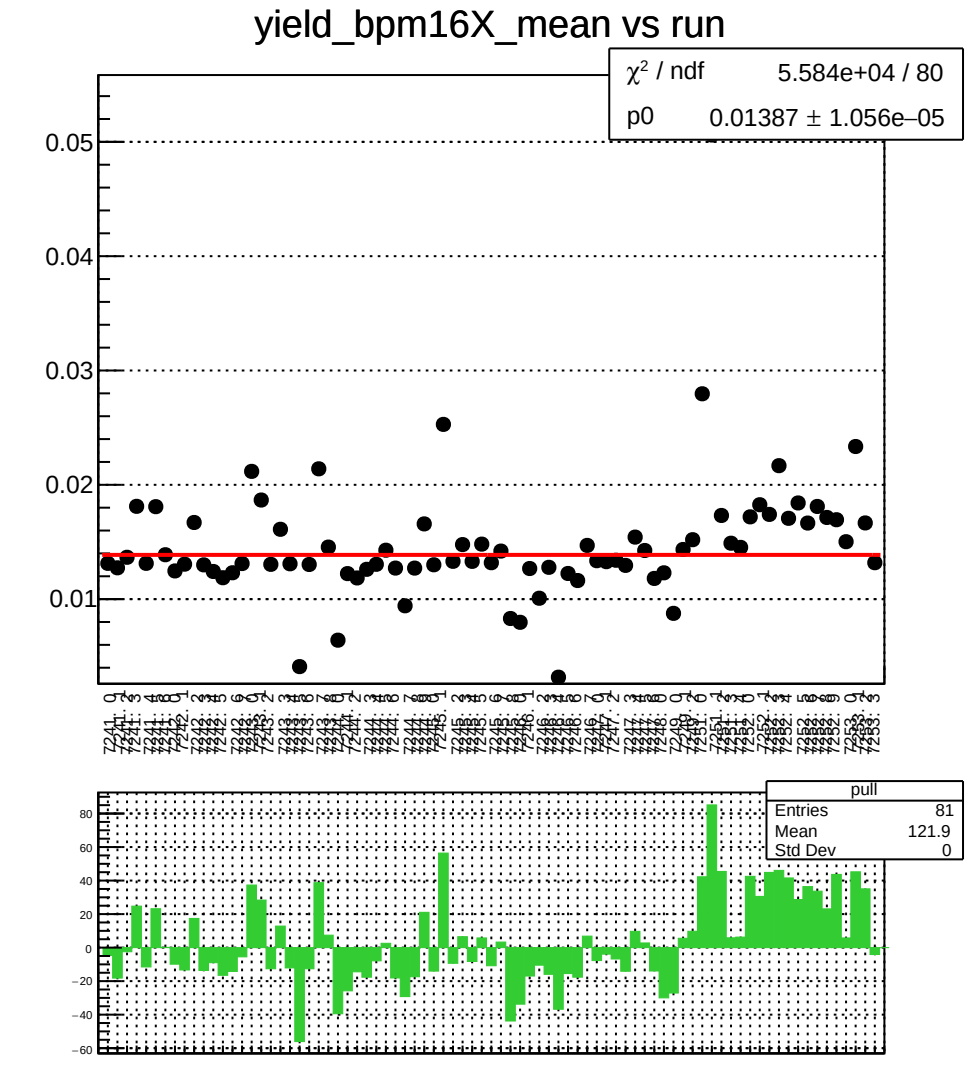

pull1D
Entries 81
Mean 0.1997
Std Dev 4.484

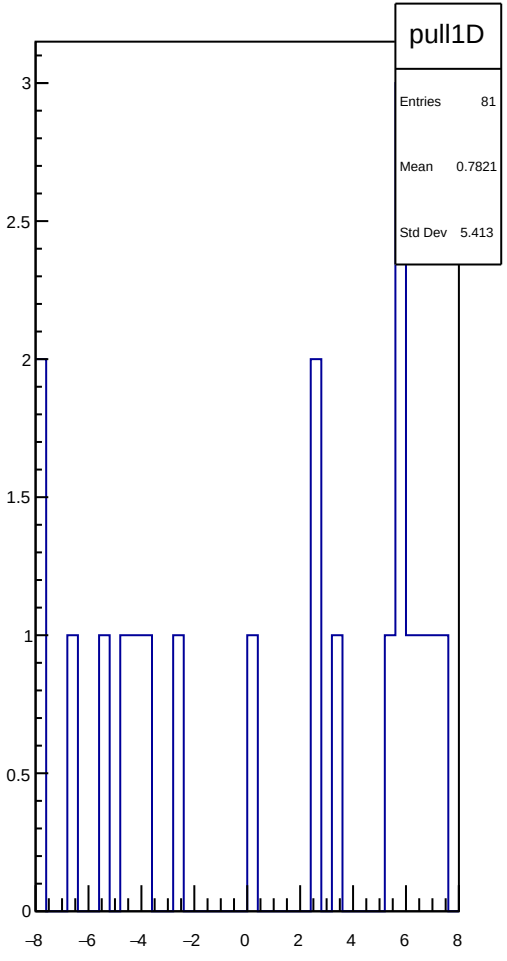

yield_bpm12X_rms vs run
χ² / ndf 1.201e+05 / 80
p0 0.03355 ± 2.807e–05
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02

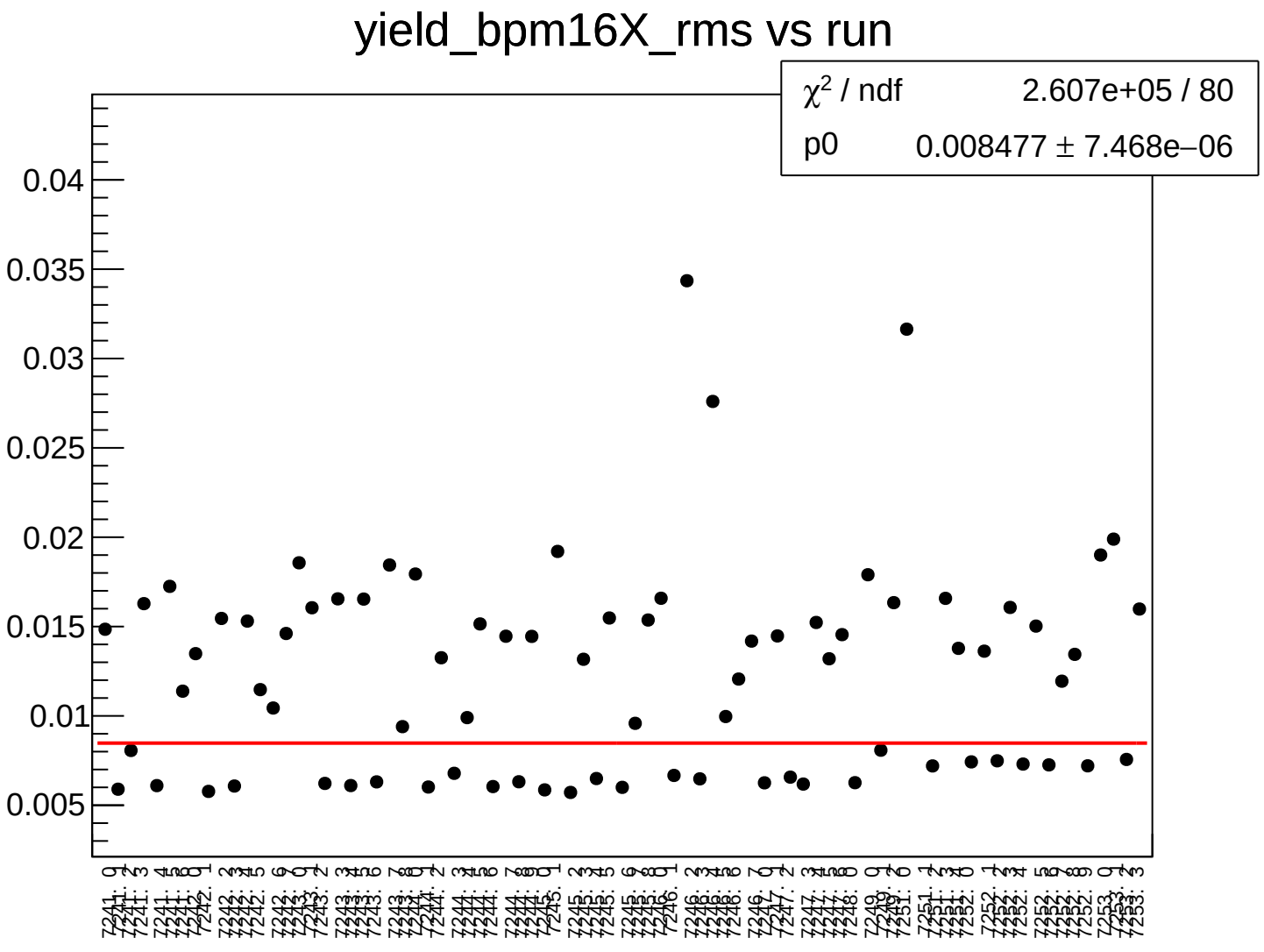

yield_bpm12Y_mean vs run
χ² / ndf 2.954e+09 / 80
p0 2.643 ± 1.056e−05
pull
Entries 81
Mean 5219
Std Dev 0

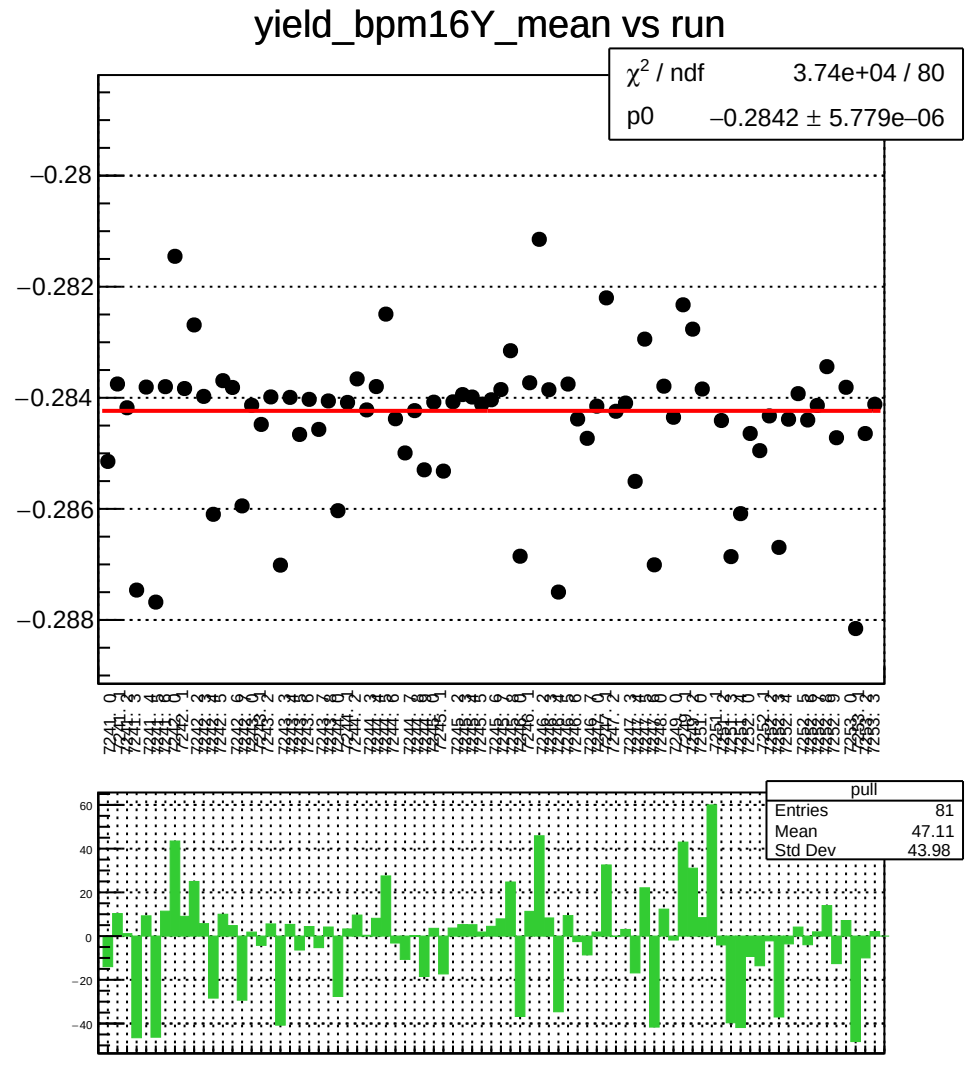

pull1D
Entries 81
Mean 0
Std Dev 0

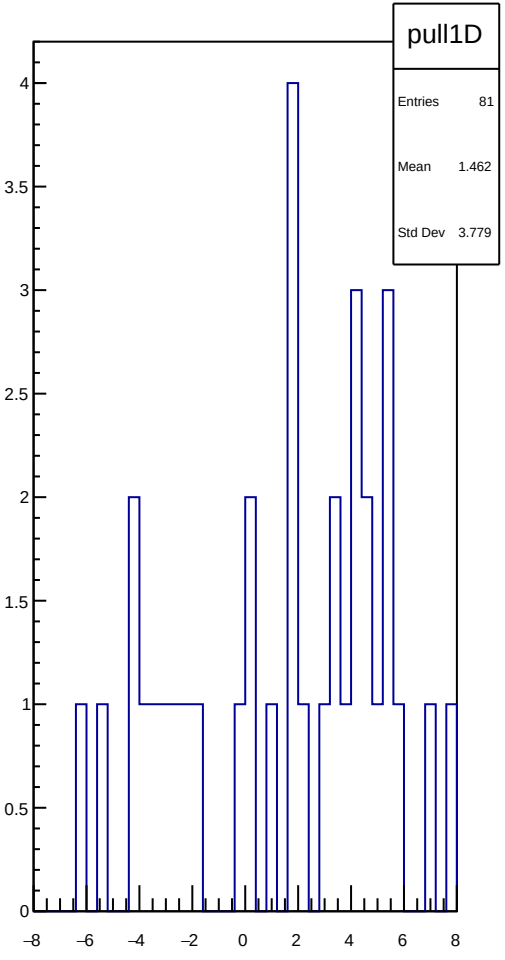

yield_bpm12Y_rms vs run
χ^2 / ndf 2.725e+04 / 80
p0 0.009214 ± 7.469e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

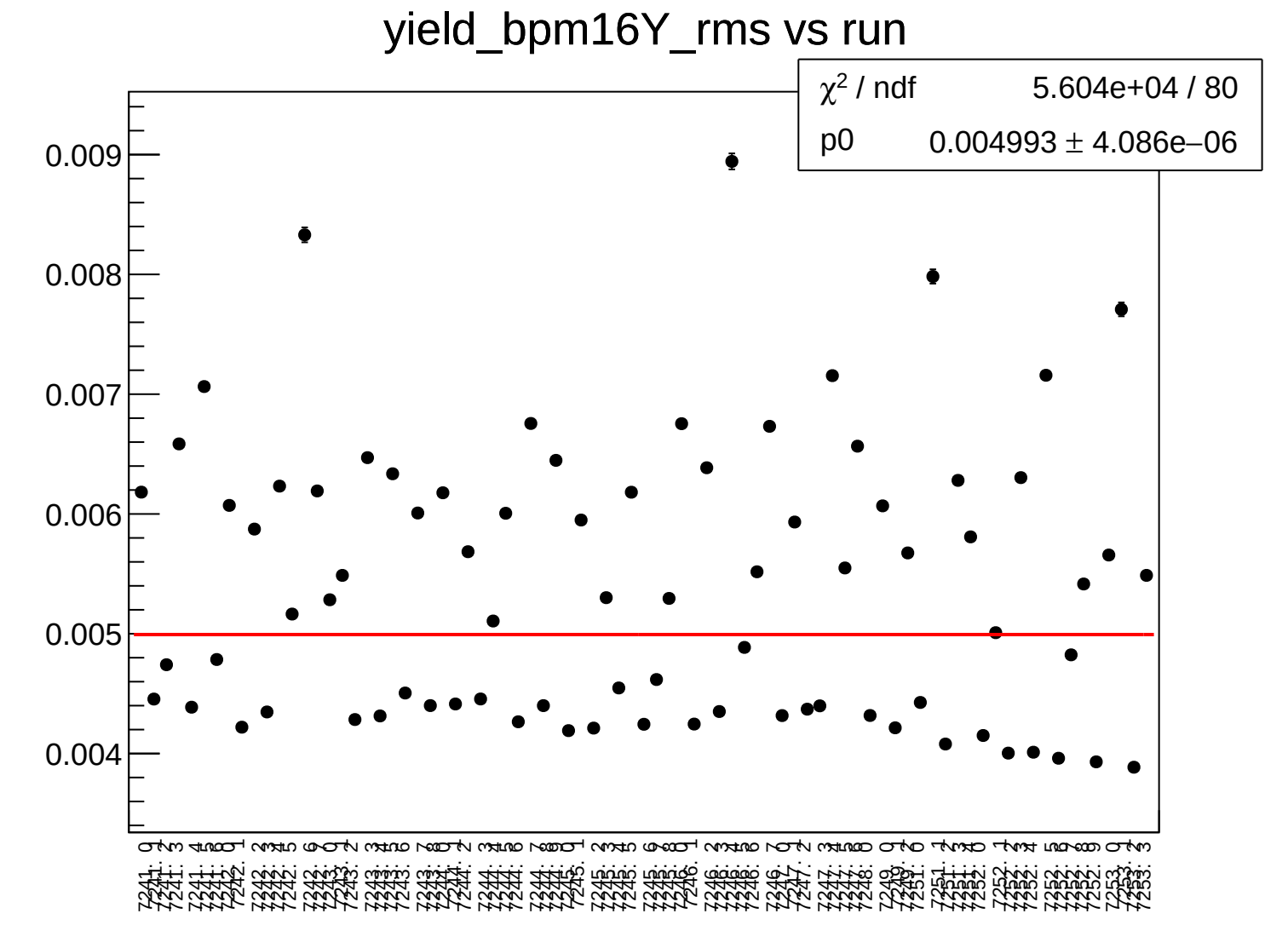

yield_bpm16X_mean vs run
χ² / ndf 5.584e+04 / 80
p0 0.01387 ± 1.056e−05
pull
Entries 81
Mean 121.9
Std Dev 0

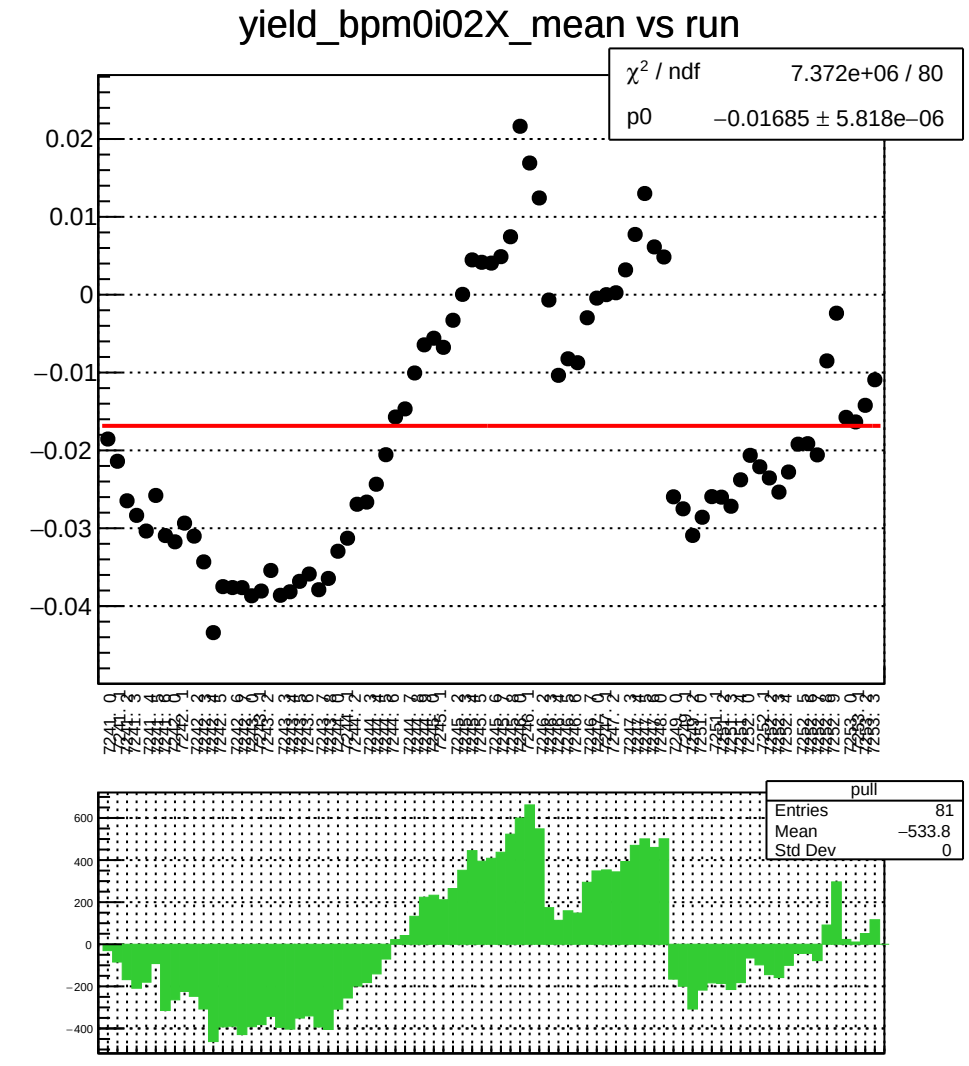

pull1D
Entries 81
Mean 0.7821
Std Dev 5.413

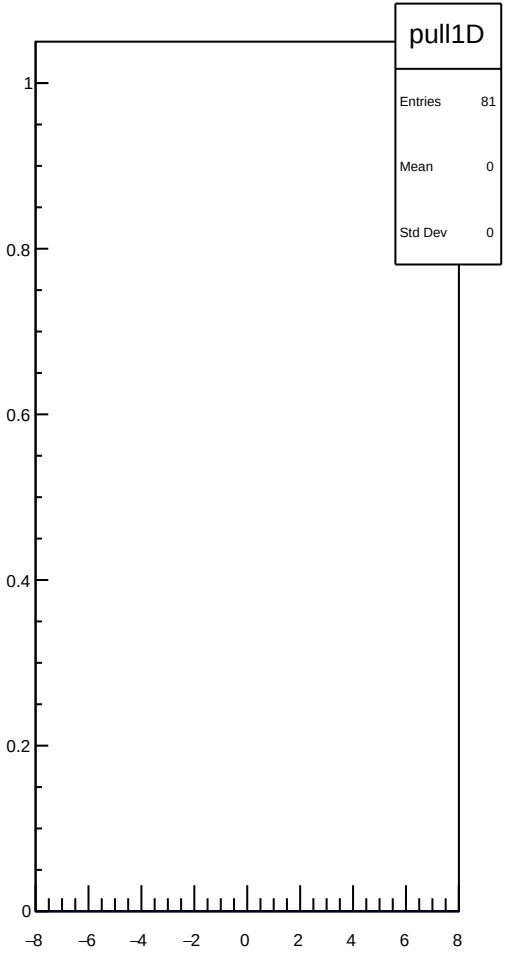

yield_bpm16X_rms vs run
χ^2 / ndf 2.607e+05 / 80
p0 0.008477 ± 7.468e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

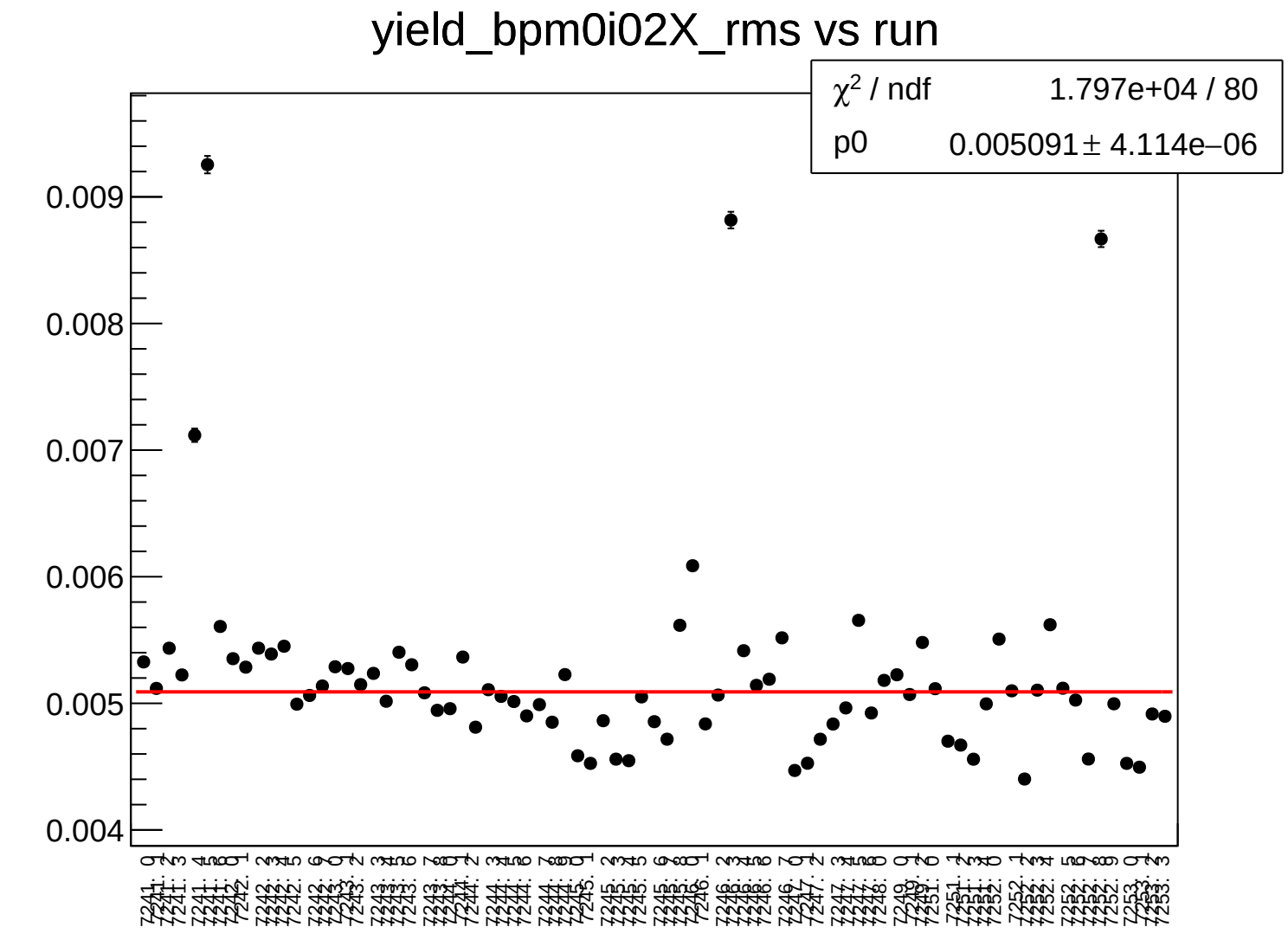

yield_bpm16Y_mean vs run
χ² / ndf 3.74e+04 / 80
p0 −0.2842 ± 5.779e−06
−0.28
−0.282
−0.284
−0.286
−0.288
pull
Entries 81
Mean 47.11
Std Dev 43.98
60
40
20
0
−20
−40

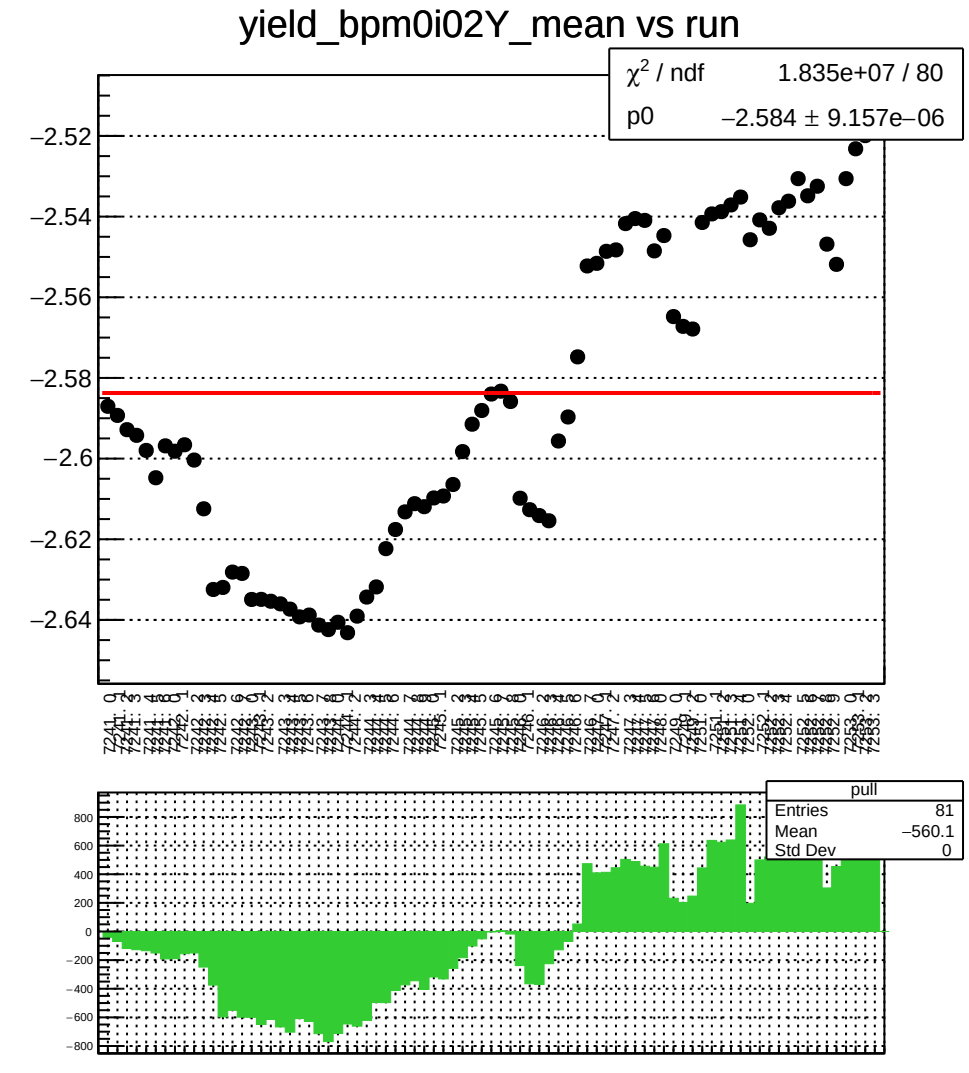

pull1D
Entries 81
Mean 1.462
Std Dev 3.779
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

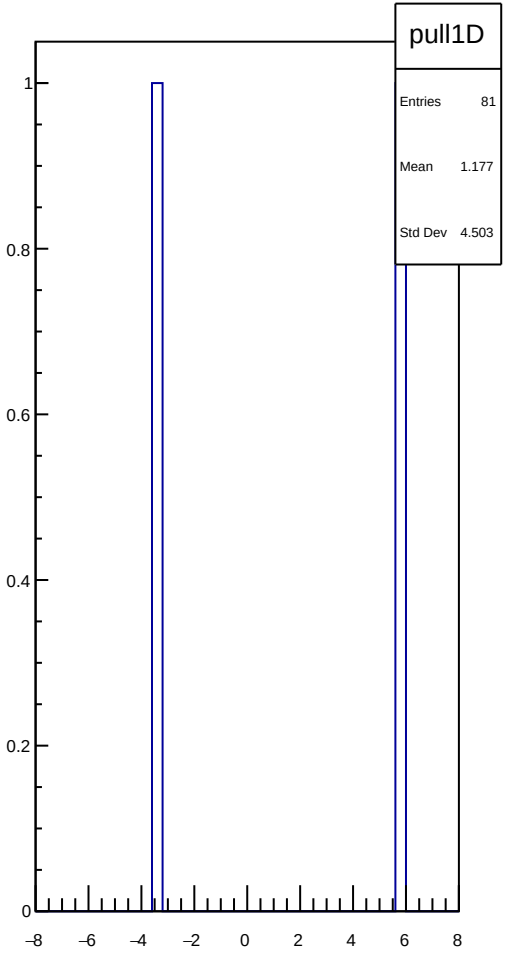

yield_bpm16Y_rms vs run
χ^2 / ndf 5.604e+04 / 80
p0 0.004993 ± 4.086e−06
0.009
0.008
0.007
0.006
0.005
0.004

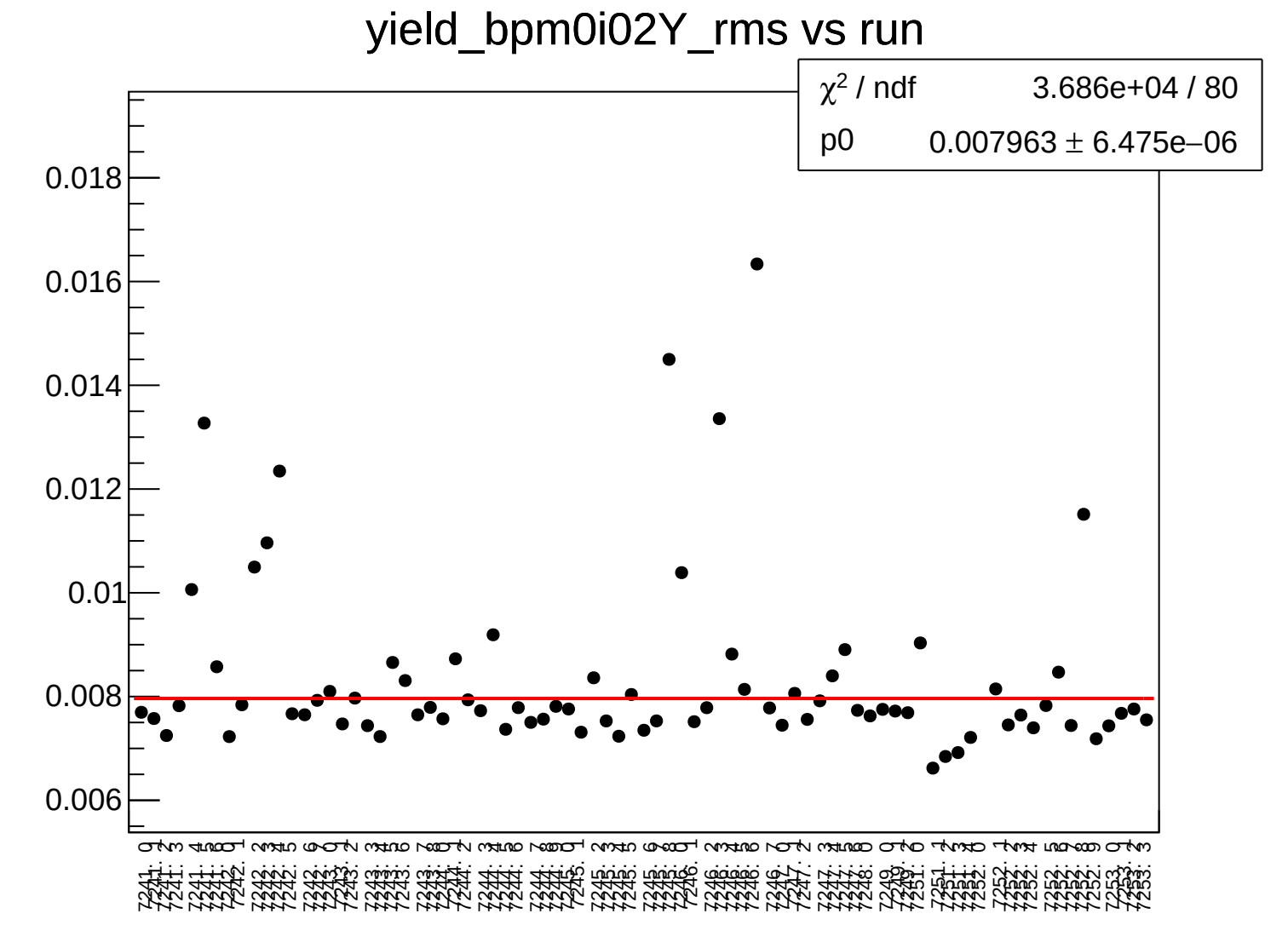

yield_bpm0i02X_mean vs run
χ² / ndf 7.372e+06 / 80
p0 −0.01685 ± 5.818e−06
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 81
Mean −533.8
Std Dev 0
600
400
200
0
−200
−400

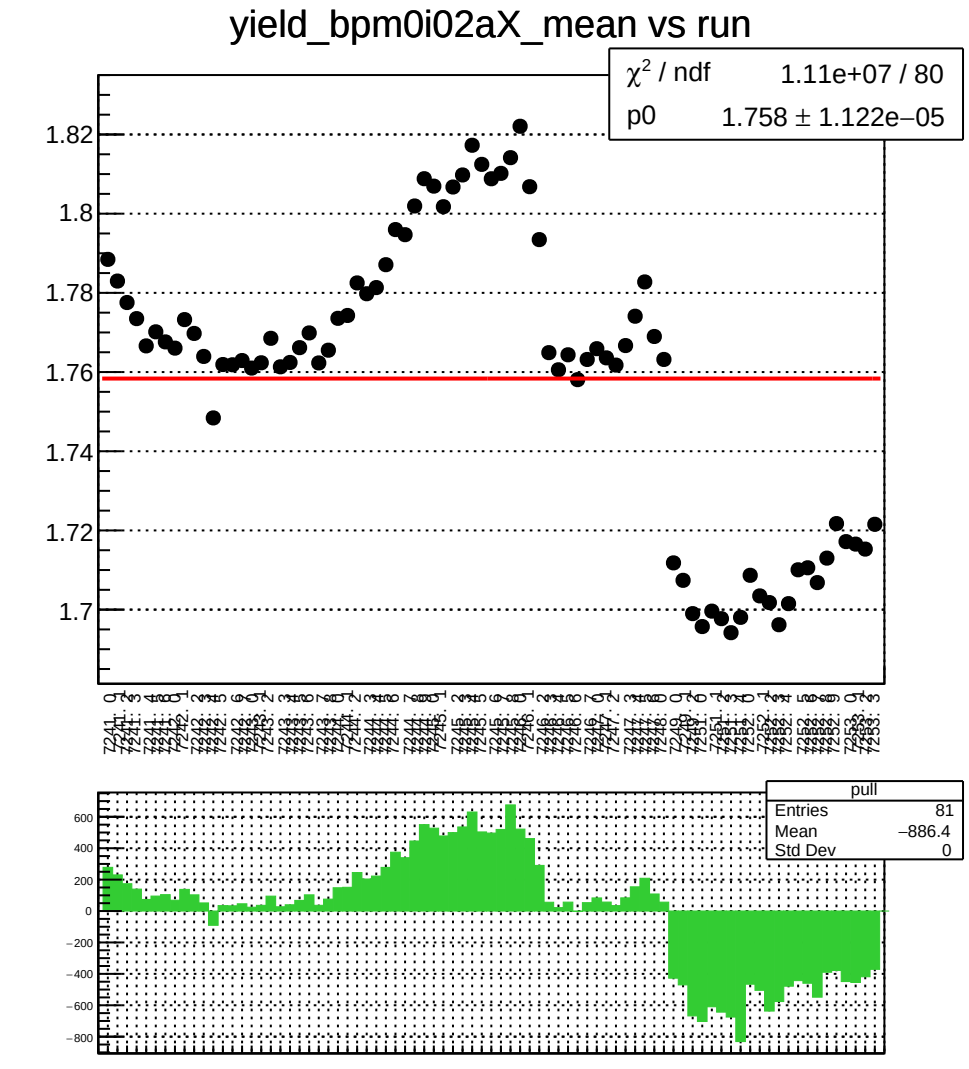

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

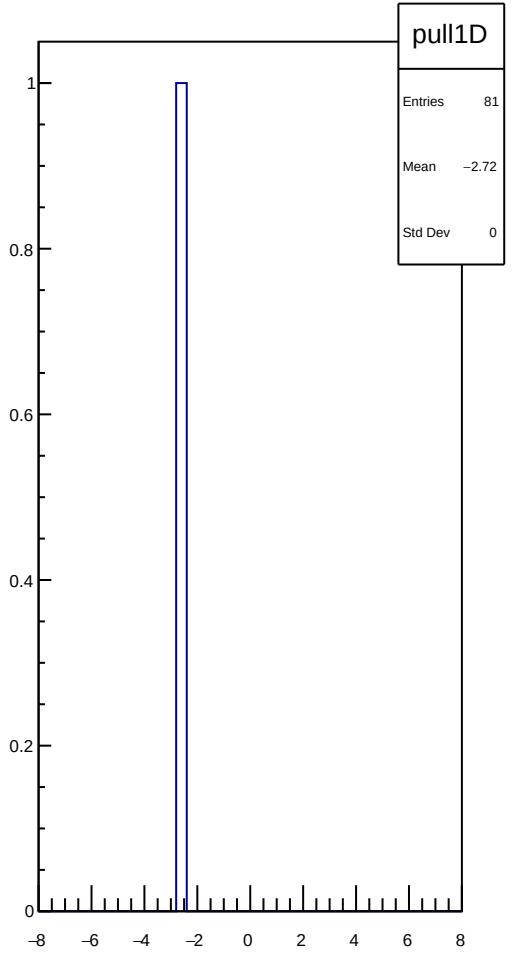

yield_bpm0i02X_rms vs run
χ² / ndf 1.797e+04 / 80
p0 0.005091 ± 4.114e−06
0.009
0.008
0.007
0.006
0.005
0.004

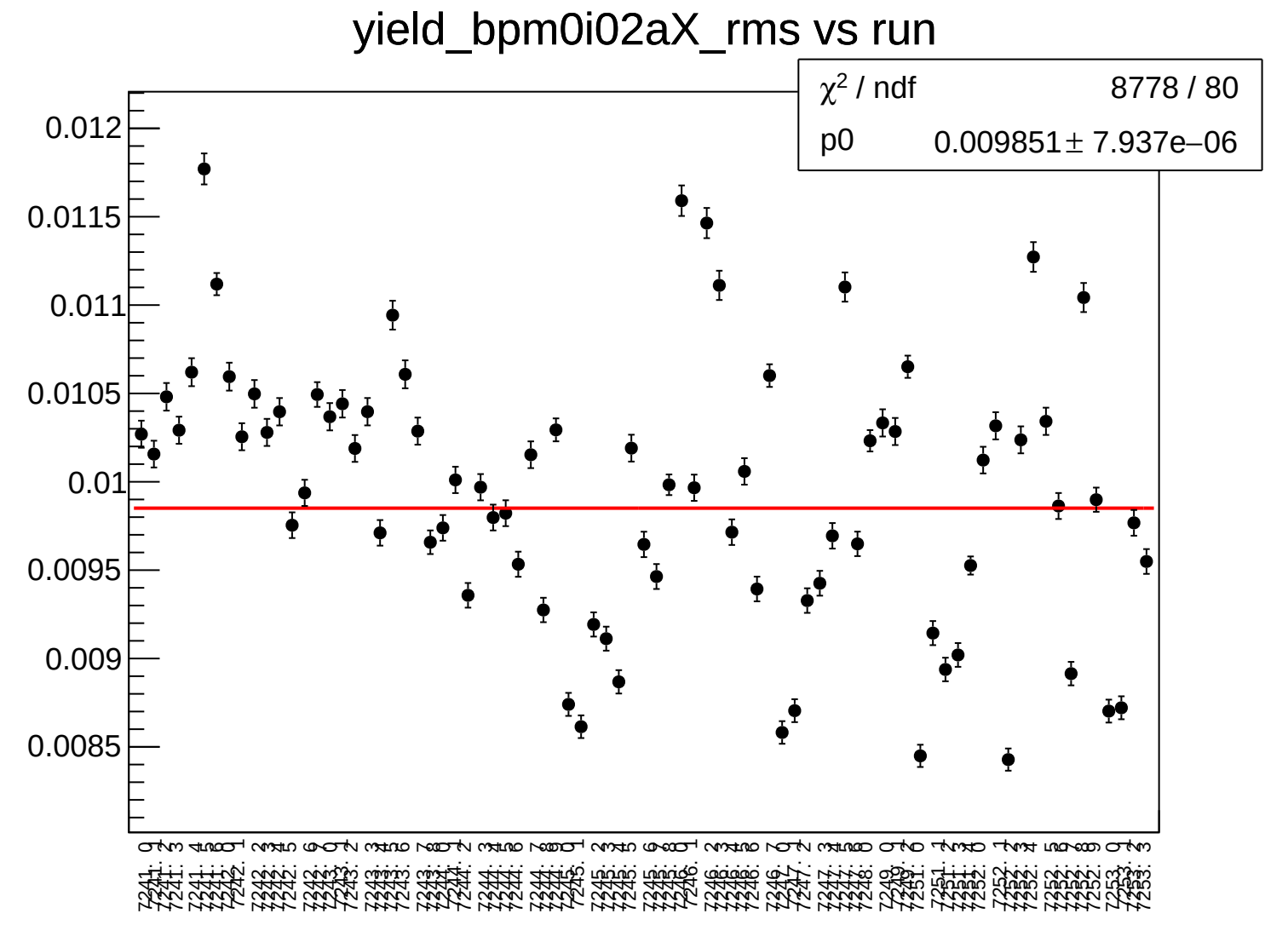

yield_bpm0i02Y_mean vs run
χ² / ndf 1.835e+07 / 80
p0 −2.584 ± 9.157e−06
−2.52
−2.54
−2.56
−2.58
−2.6
−2.62
−2.64
pull
Entries 81
Mean −560.1
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800

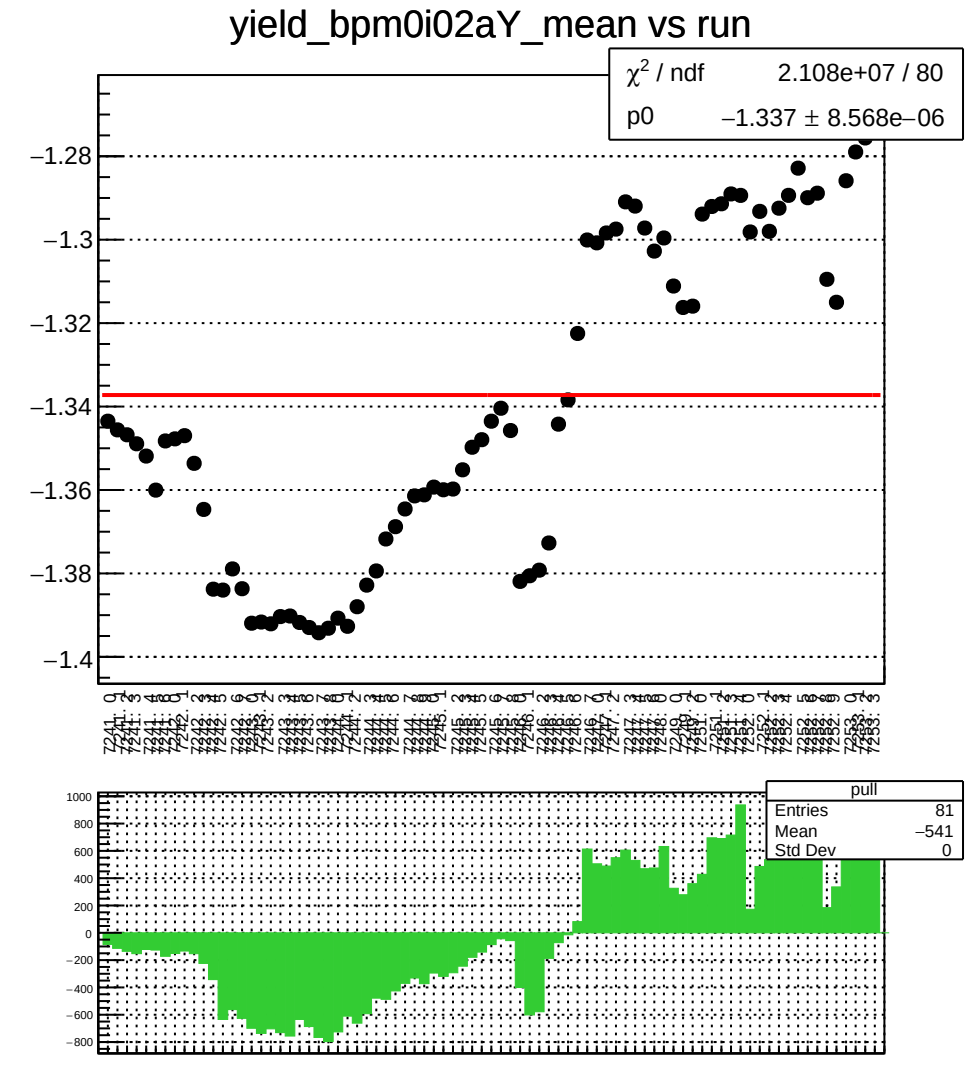

pull1D
Entries 81
Mean 1.177
Std Dev 4.503
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

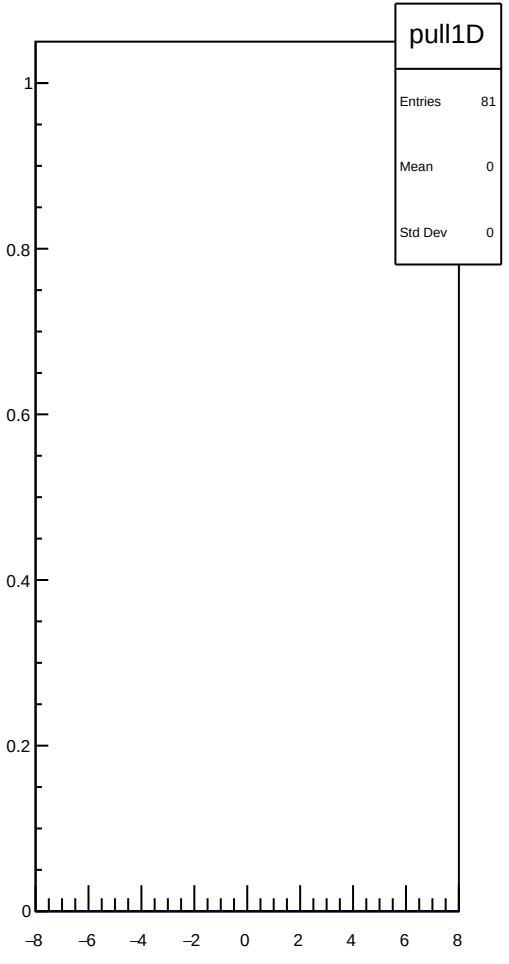

yield_bpm0i02Y_rms vs run
χ^2 / ndf 3.686e+04 / 80
p0 0.007963 ± 6.475e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006

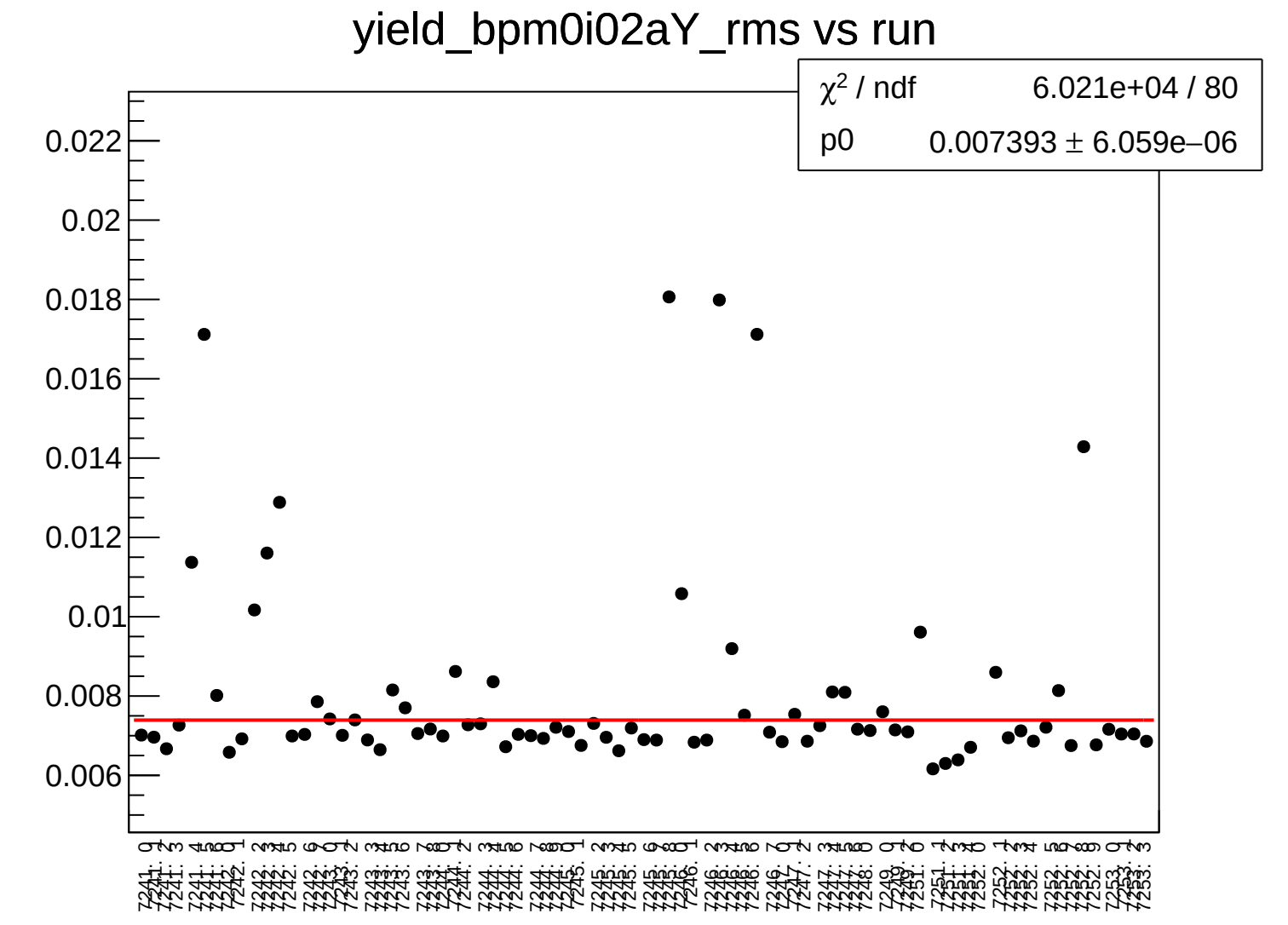

yield_bpm0i02aX_mean vs run
χ² / ndf 1.11e+07 / 80
p0 1.758 ± 1.122e−05
1.82
1.8
1.78
1.76
1.74
1.72
1.7
pull
Entries 81
Mean −886.4
Std Dev 0
600
400
200
0
−200
−400
−600
−800

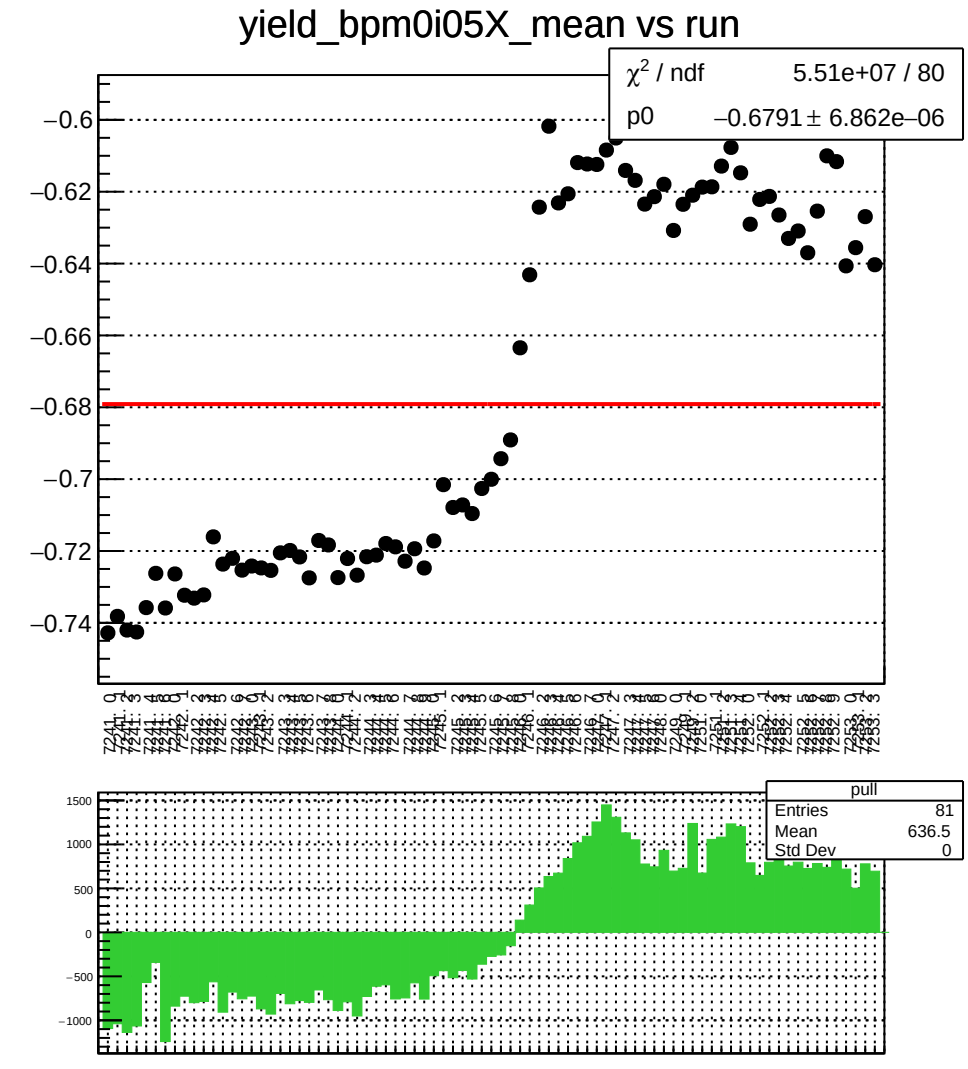

pull1D
Entries 81
Mean −2.72
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

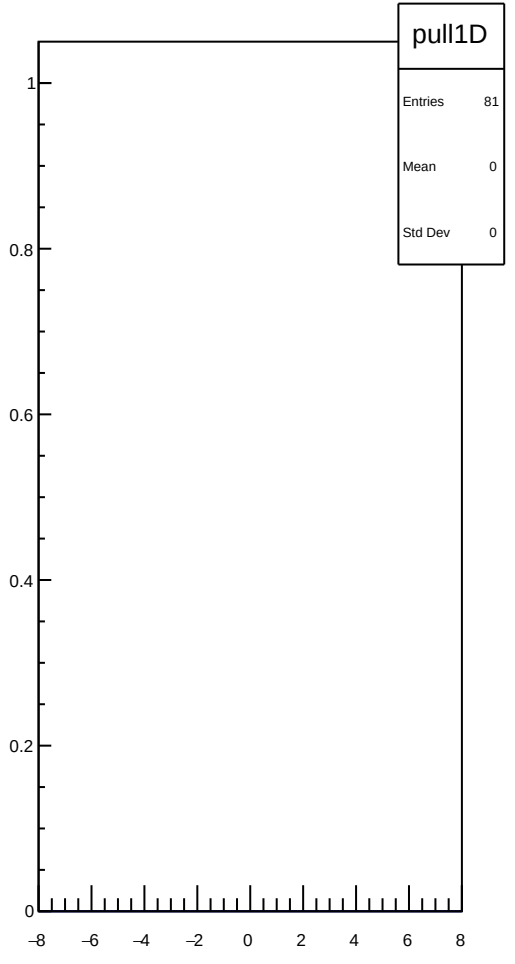

yield_bpm0i02aX_rms vs run
χ² / ndf 8778 / 80
p0 0.009851 ± 7.937e−06
0.012
0.0115
0.011
0.0105
0.01
0.0095
0.009
0.0085

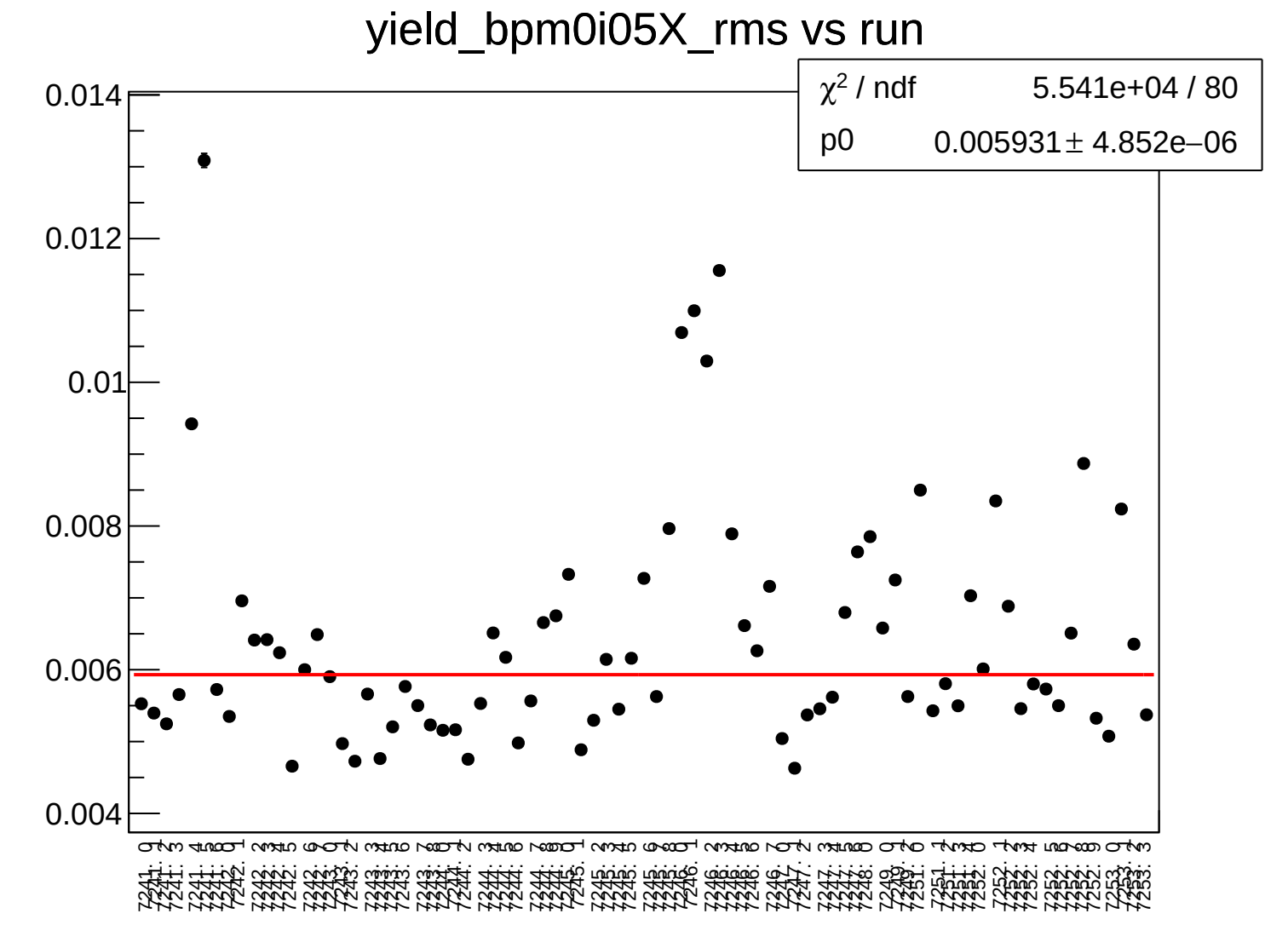

yield_bpm0i02aY_mean vs run
χ² / ndf 2.108e+07 / 80
p0 −1.337 ± 8.568e−06
−1.28
−1.3
−1.32
−1.34
−1.36
−1.38
−1.4
pull
Entries 81
Mean −541
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600
−800

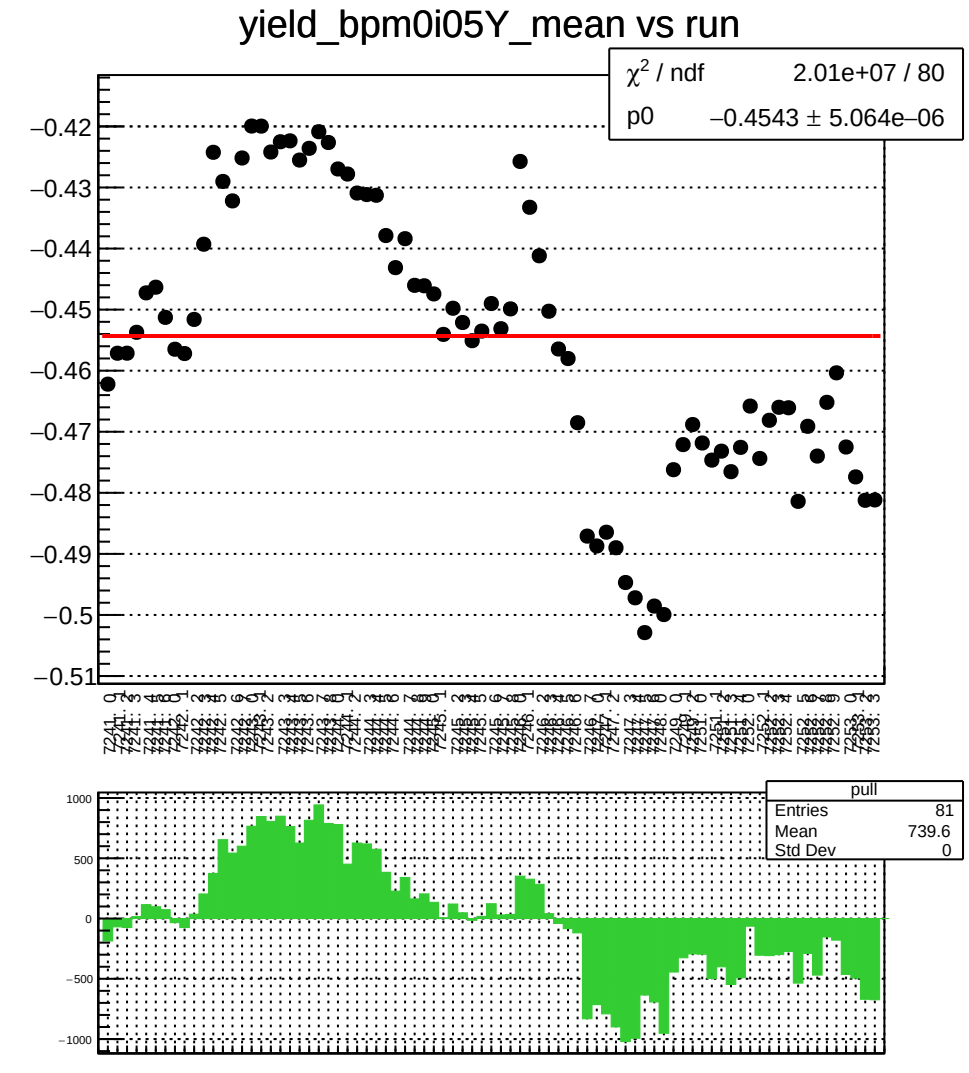

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

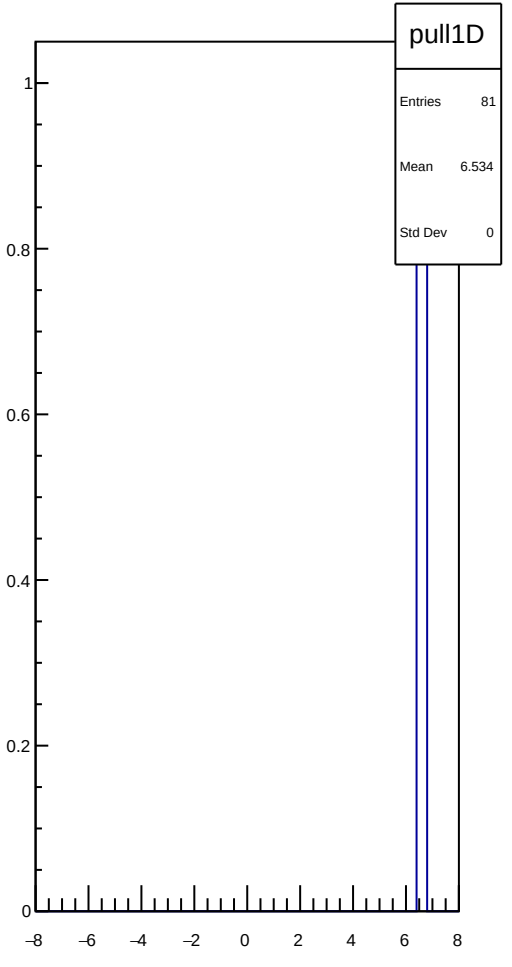

yield_bpm0i02aY_rms vs run
χ² / ndf 6.021e+04 / 80
p0 0.007393 ± 6.059e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

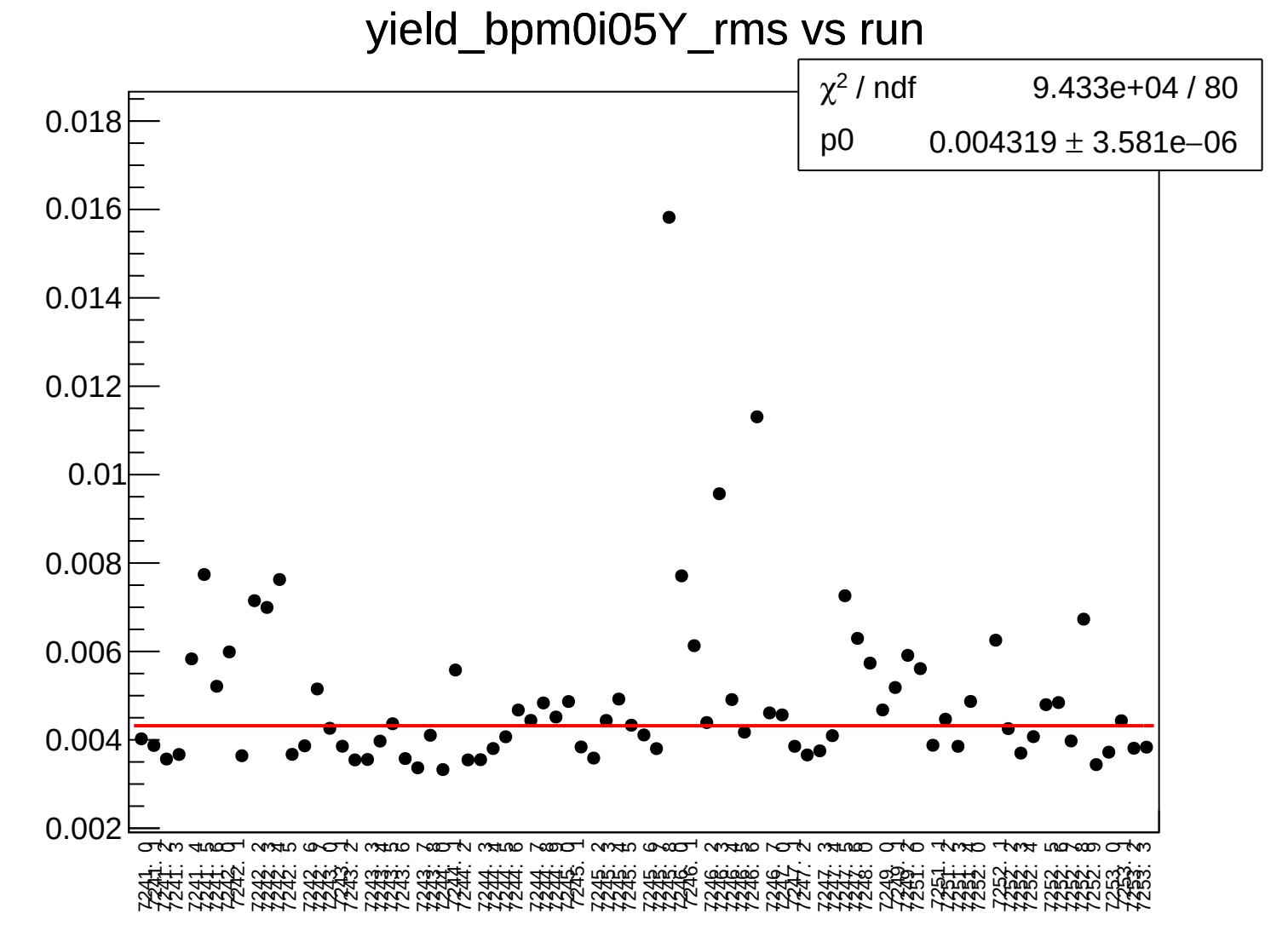

yield_bpm0i05X_mean vs run
χ² / ndf 5.51e+07 / 80
p0 −0.6791 ± 6.862e−06
−0.6
−0.62
−0.64
−0.66
−0.68
−0.7
−0.72
−0.74
pull
Entries 81
Mean 636.5
Std Dev 0
1500
1000
500
0
−500
−1000

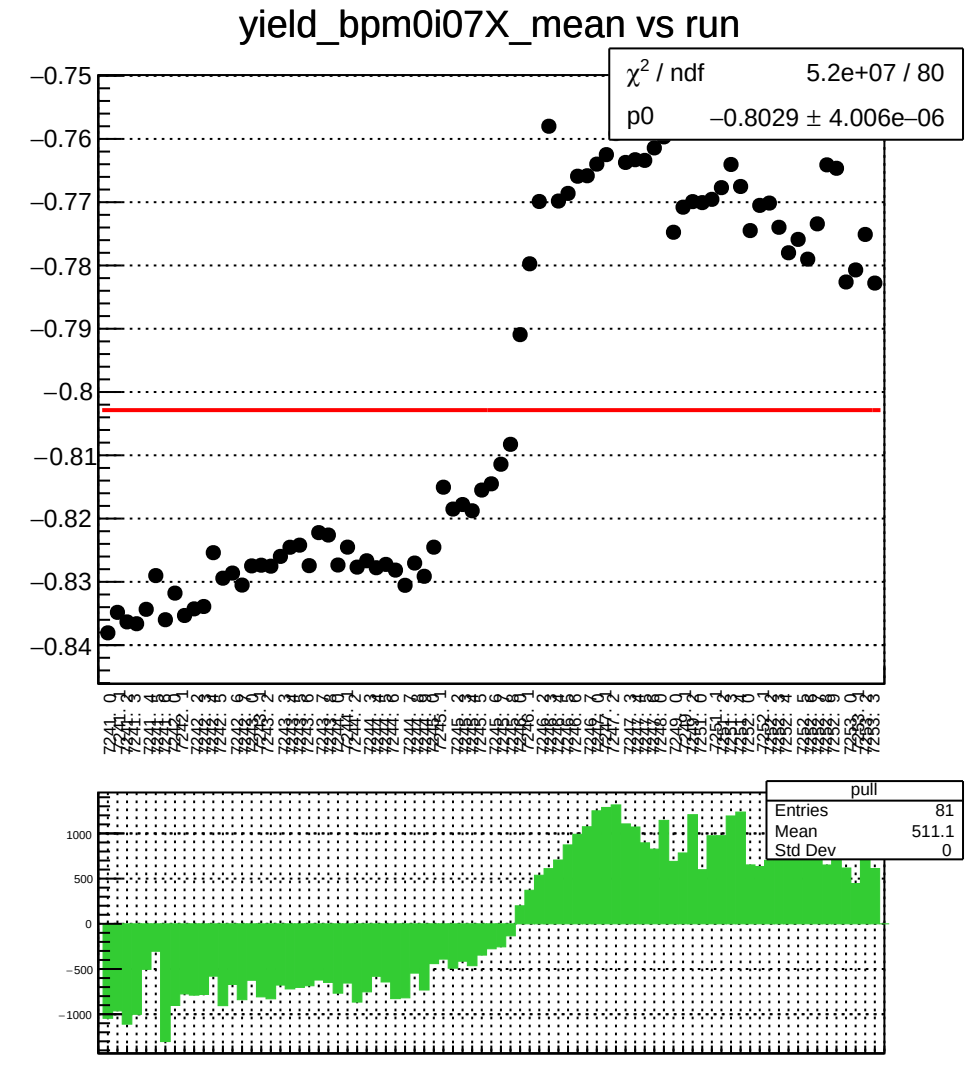

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

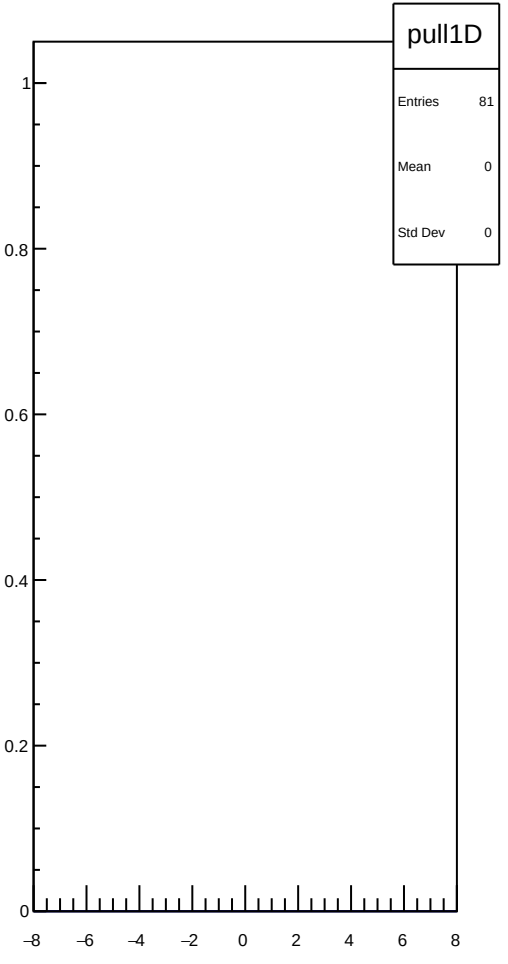

yield_bpm0i05X_rms vs run
χ² / ndf 5.541e+04 / 80
p0 0.005931 ± 4.852e−06
0.014
0.012
0.01
0.008
0.006
0.004

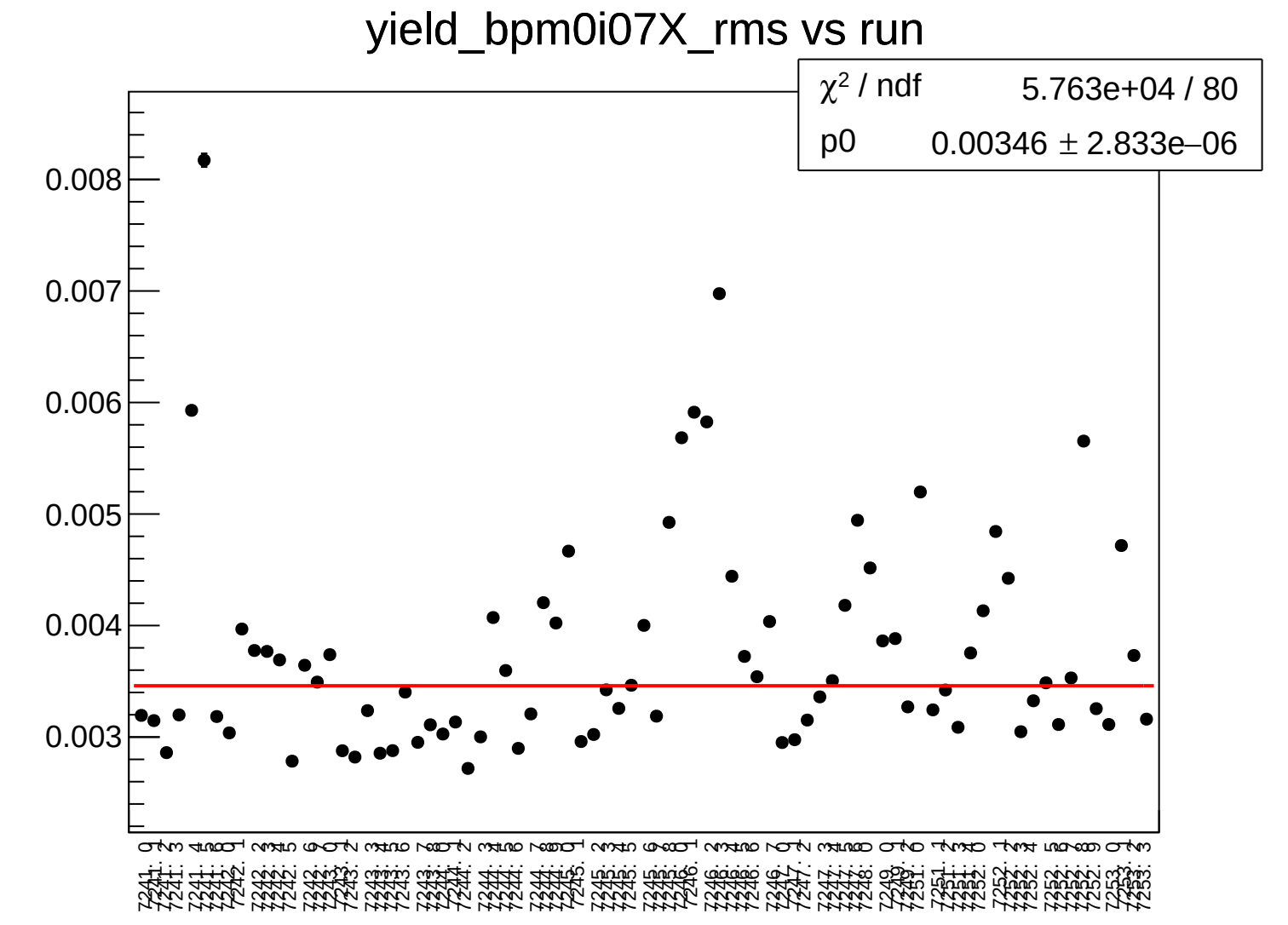

yield_bpm0i05Y_mean vs run
χ² / ndf 2.01e+07 / 80
p0 −0.4543 ± 5.064e−06
−0.42
−0.43
−0.44
−0.45
−0.46
−0.47
−0.48
−0.49
−0.5
−0.51
pull
Entries 81
Mean 739.6
Std Dev 0
1000
500
0
−500
−1000

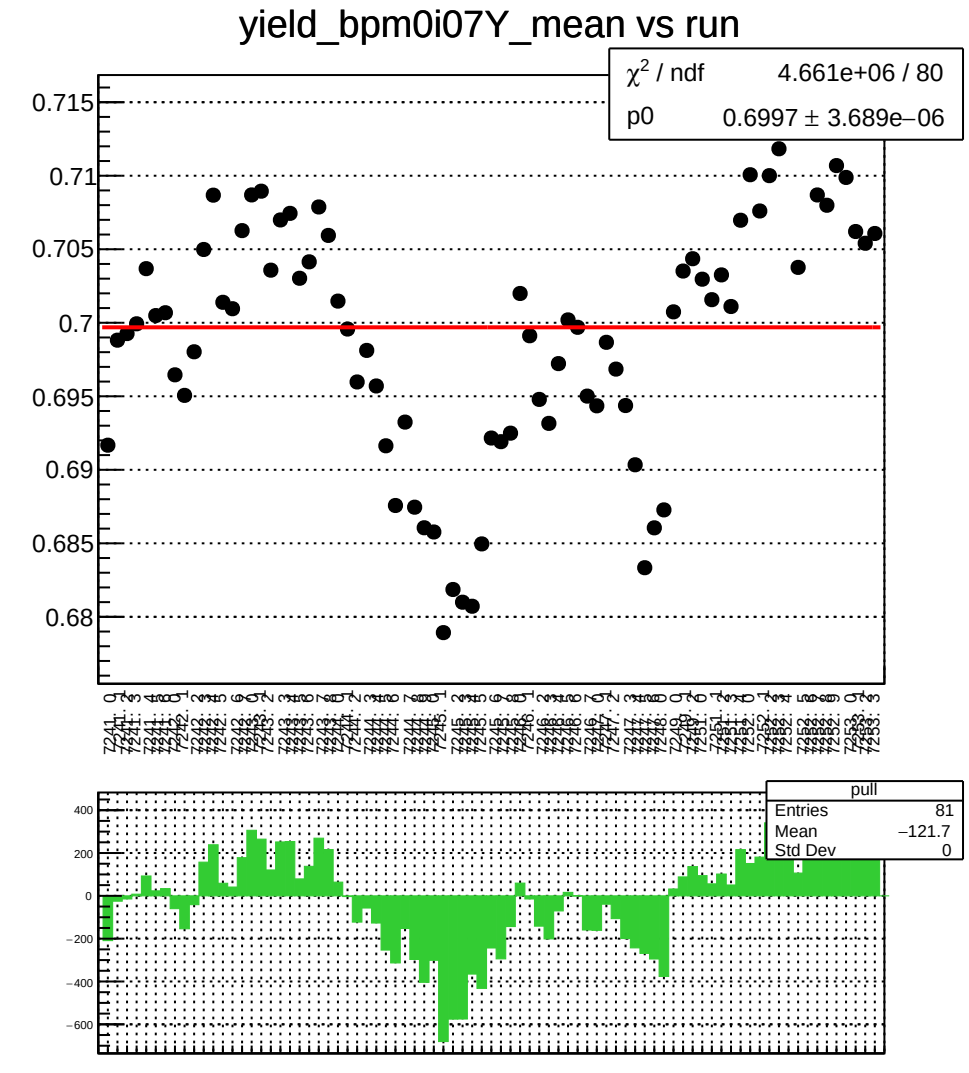

pull1D
Entries 81
Mean 6.534
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

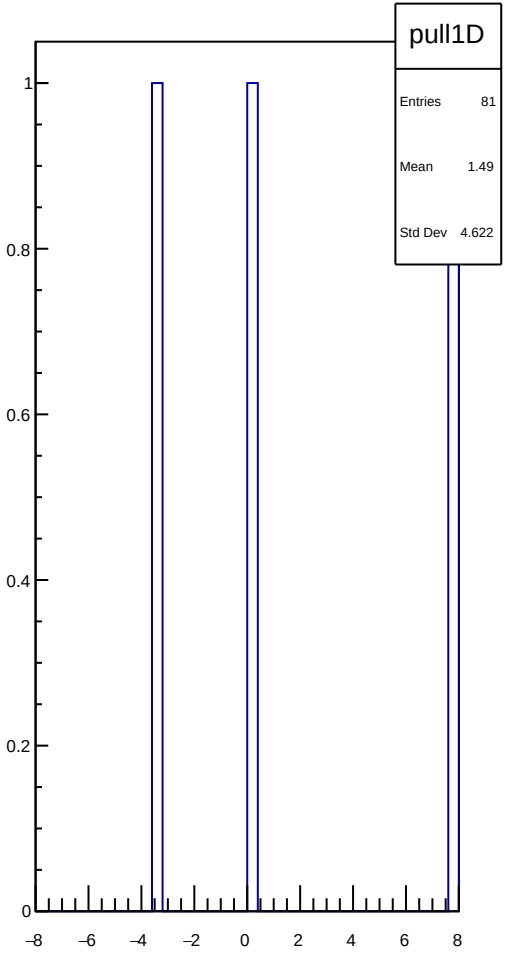

yield_bpm0i05Y_rms vs run
χ^2 / ndf 9.433e+04 / 80
p0 0.004319 ± 3.581e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

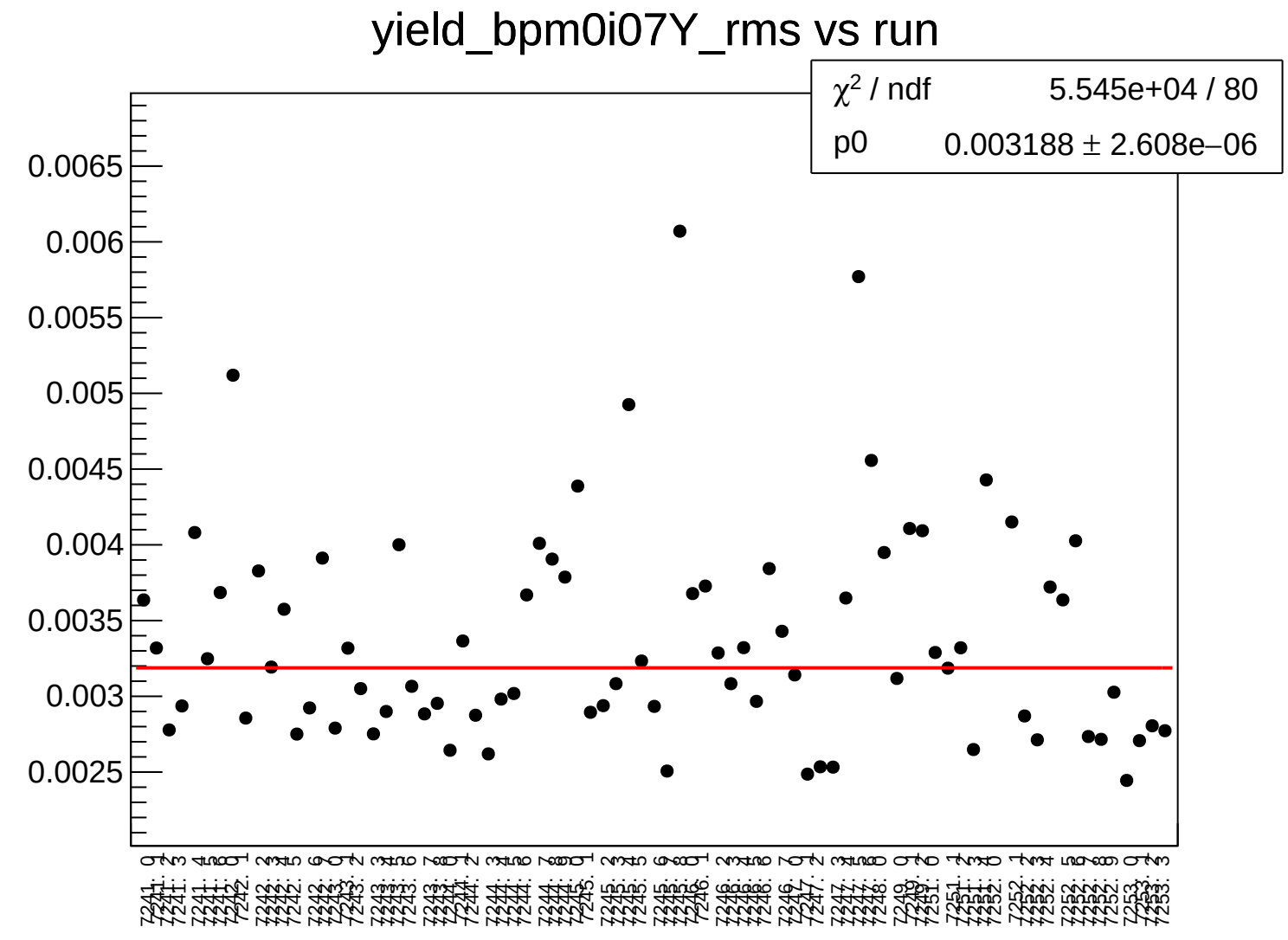

yield_bpm0i07X_mean vs run
χ² / ndf 5.2e+07 / 80
p0 −0.8029 ± 4.006e−06
pull
Entries 81
Mean 511.1
Std Dev 0

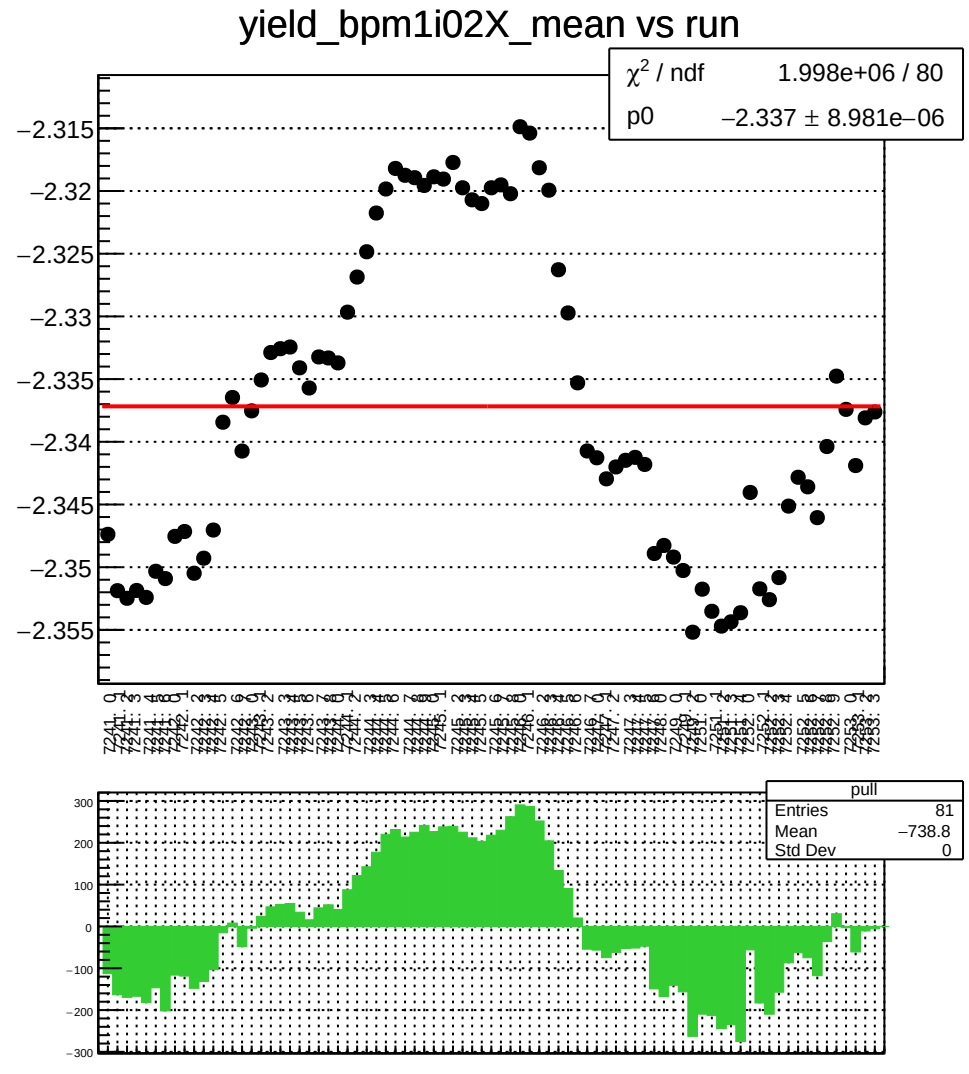

pull1D
Entries 81
Mean 0
Std Dev 0

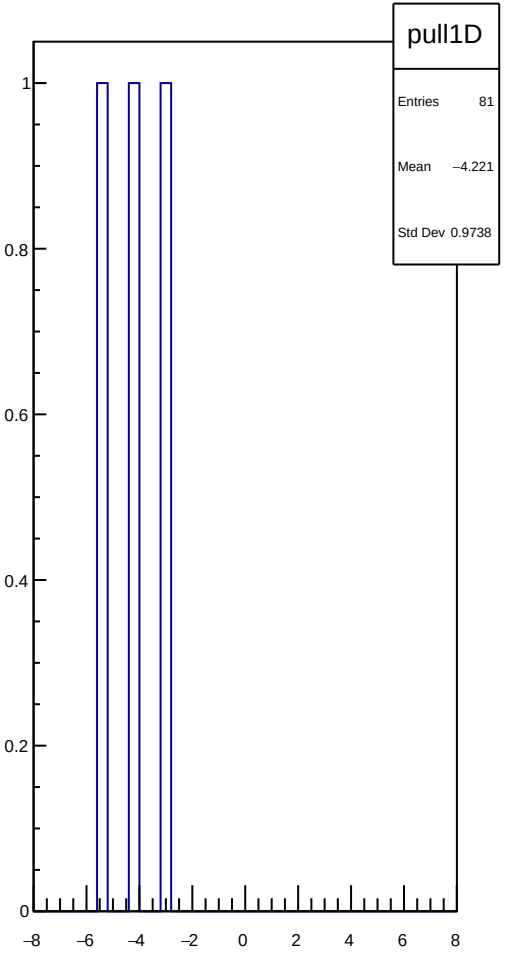

yield_bpm0i07X_rms vs run
χ² / ndf 5.763e+04 / 80
p0 0.00346 ± 2.833e–06
0.008
0.007
0.006
0.005
0.004
0.003

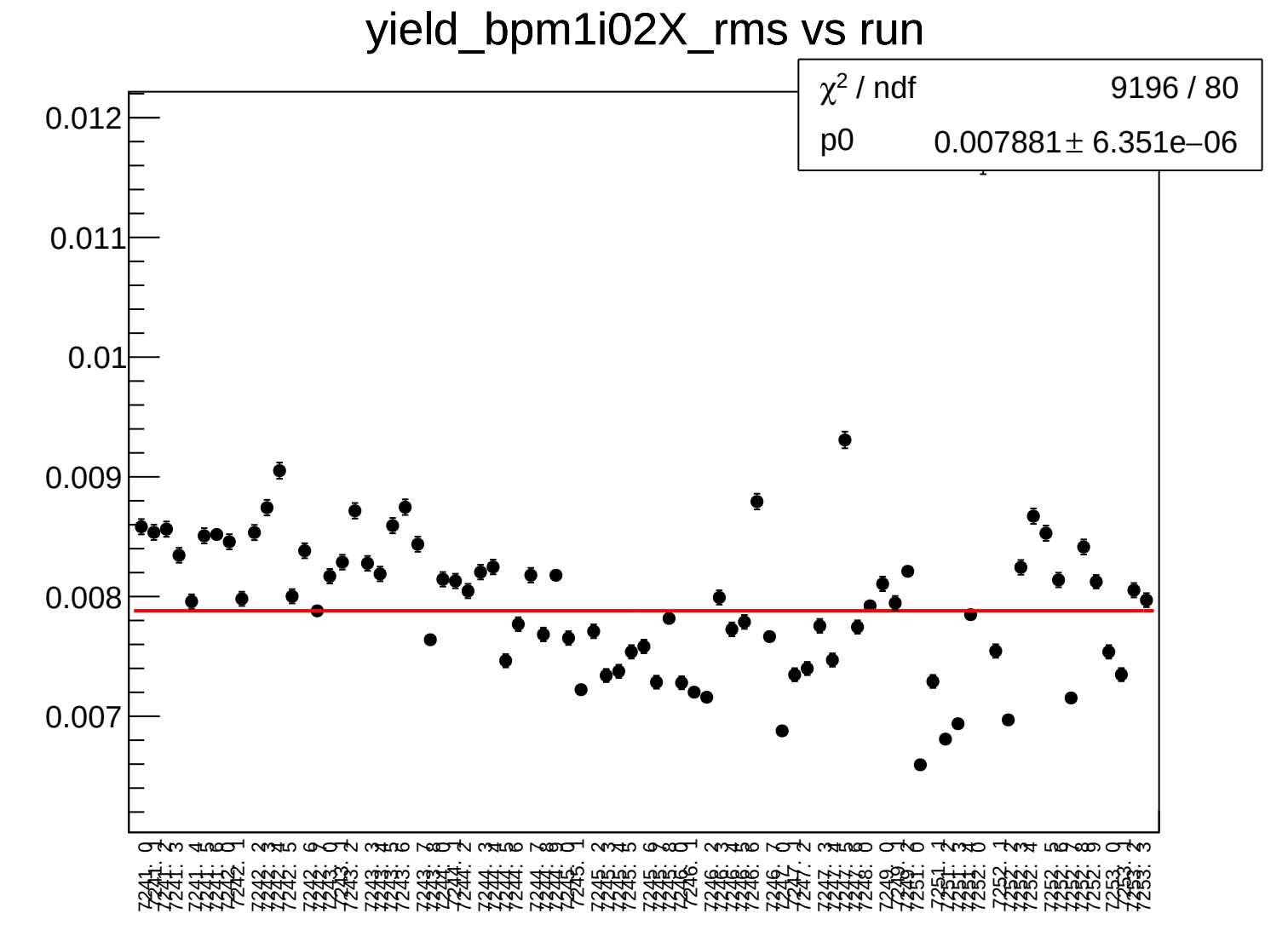

yield_bpm0i07Y_mean vs run
χ² / ndf 4.661e+06 / 80
p0 0.6997 ± 3.689e−06
0.715
0.71
0.705
0.7
0.695
0.69
0.685
0.68
pull
Entries 81
Mean −121.7
Std Dev 0
400
200
0
−200
−400
−600

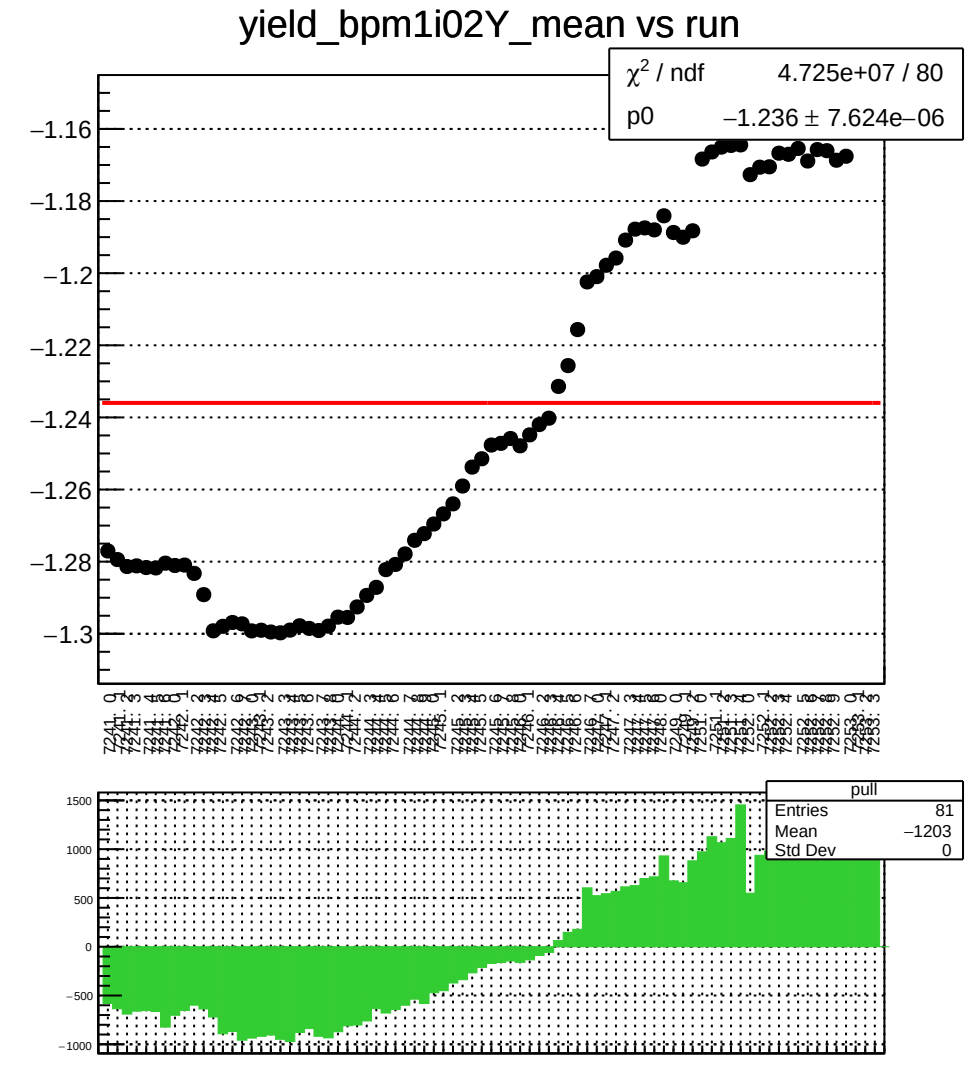

pull1D
Entries 81
Mean 1.49
Std Dev 4.622
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

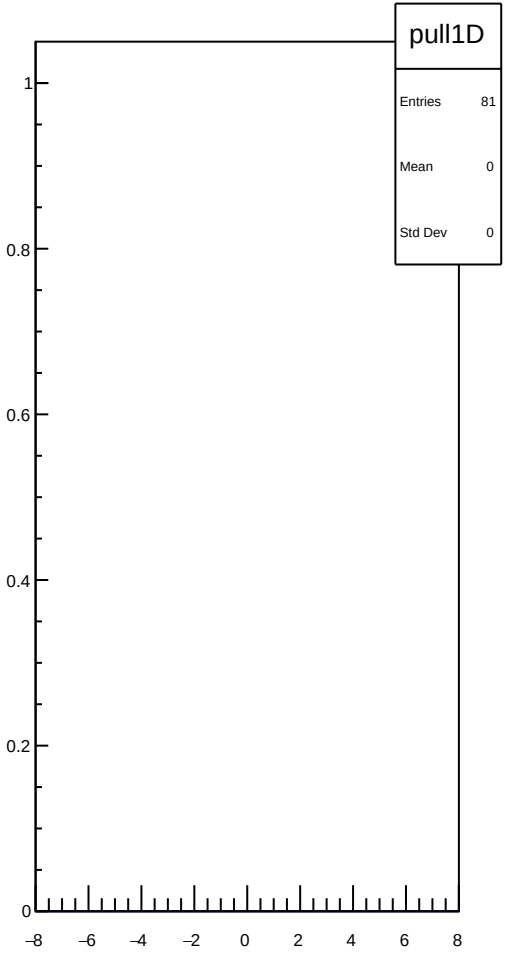

yield_bpm0i07Y_rms vs run
χ² / ndf 5.545e+04 / 80
p0 0.003188 ± 2.608e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

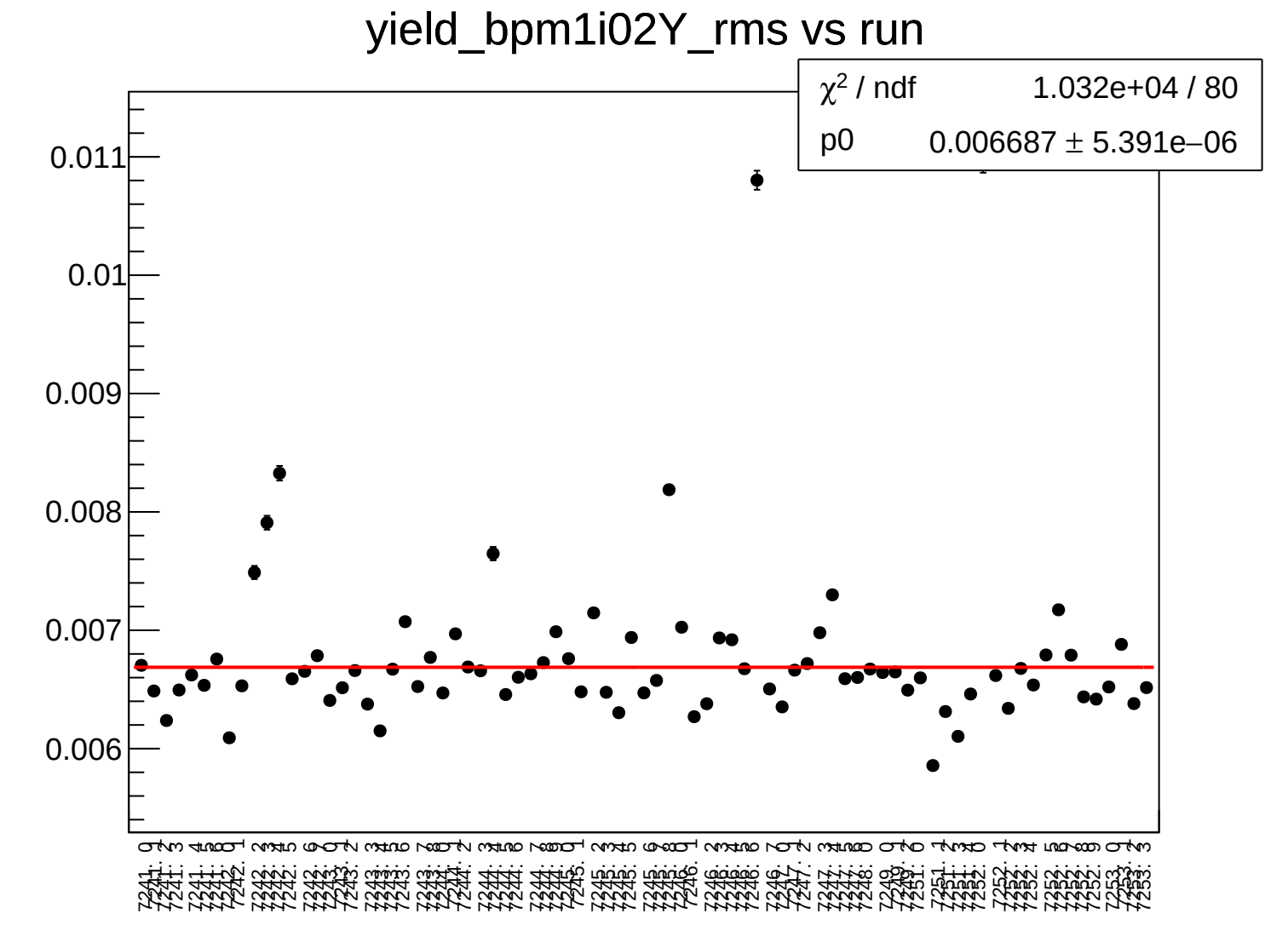

yield_bpm1i02X_mean vs run
χ² / ndf 1.998e+06 / 80
p0 −2.337 ± 8.981e−06
−2.315
−2.32
−2.325
−2.33
−2.335
−2.34
−2.345
−2.35
−2.355
pull
Entries 81
Mean −738.8
Std Dev 0
300
200
100
0
−100
−200
−300

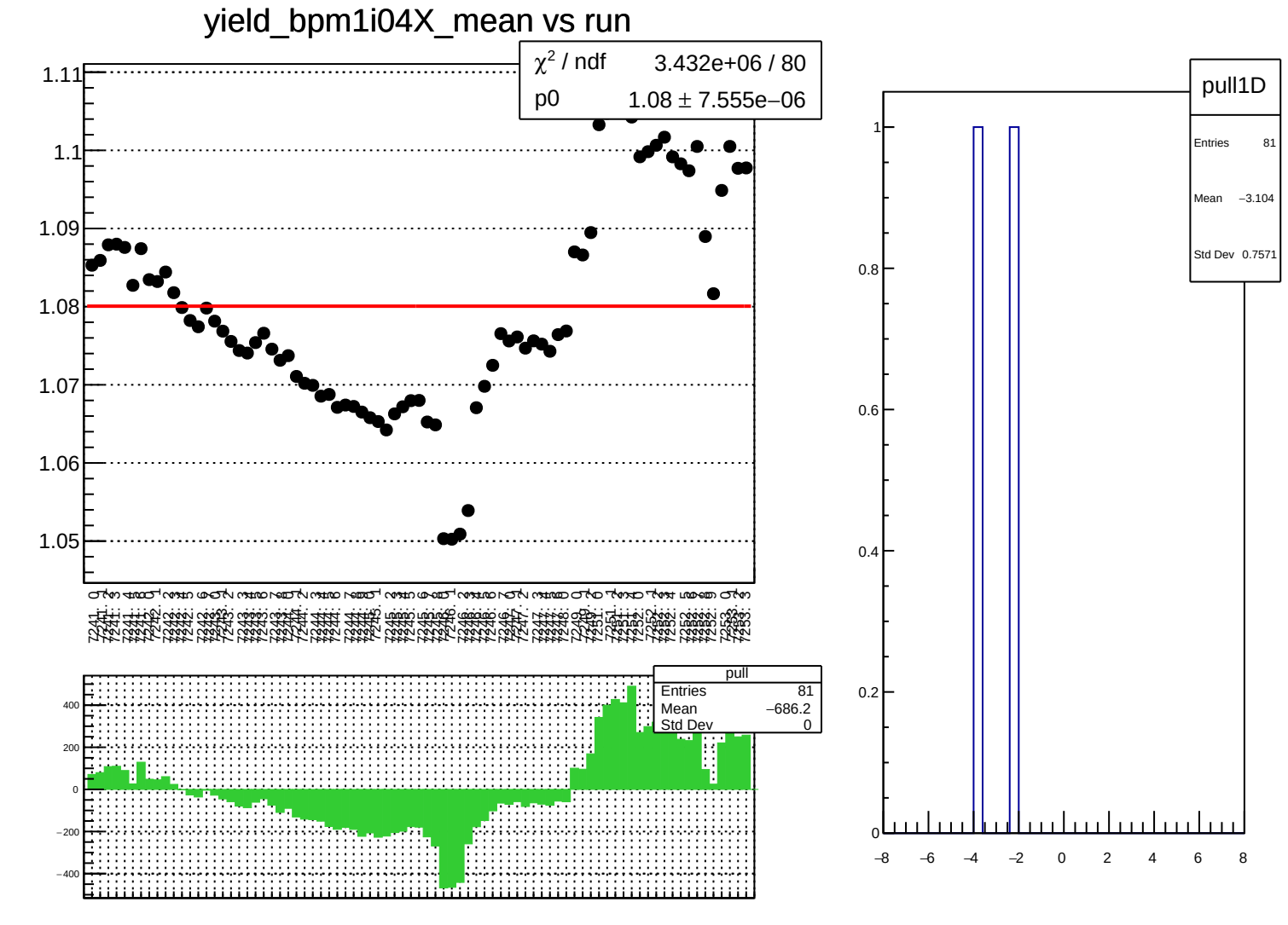

pull1D
Entries 81
Mean −4.221
Std Dev 0.9738
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm1i02X_rms vs run
χ^2 / ndf 9196 / 80
p0 0.007881 ± 6.351e−06
0.012
0.011
0.01
0.009
0.008
0.007

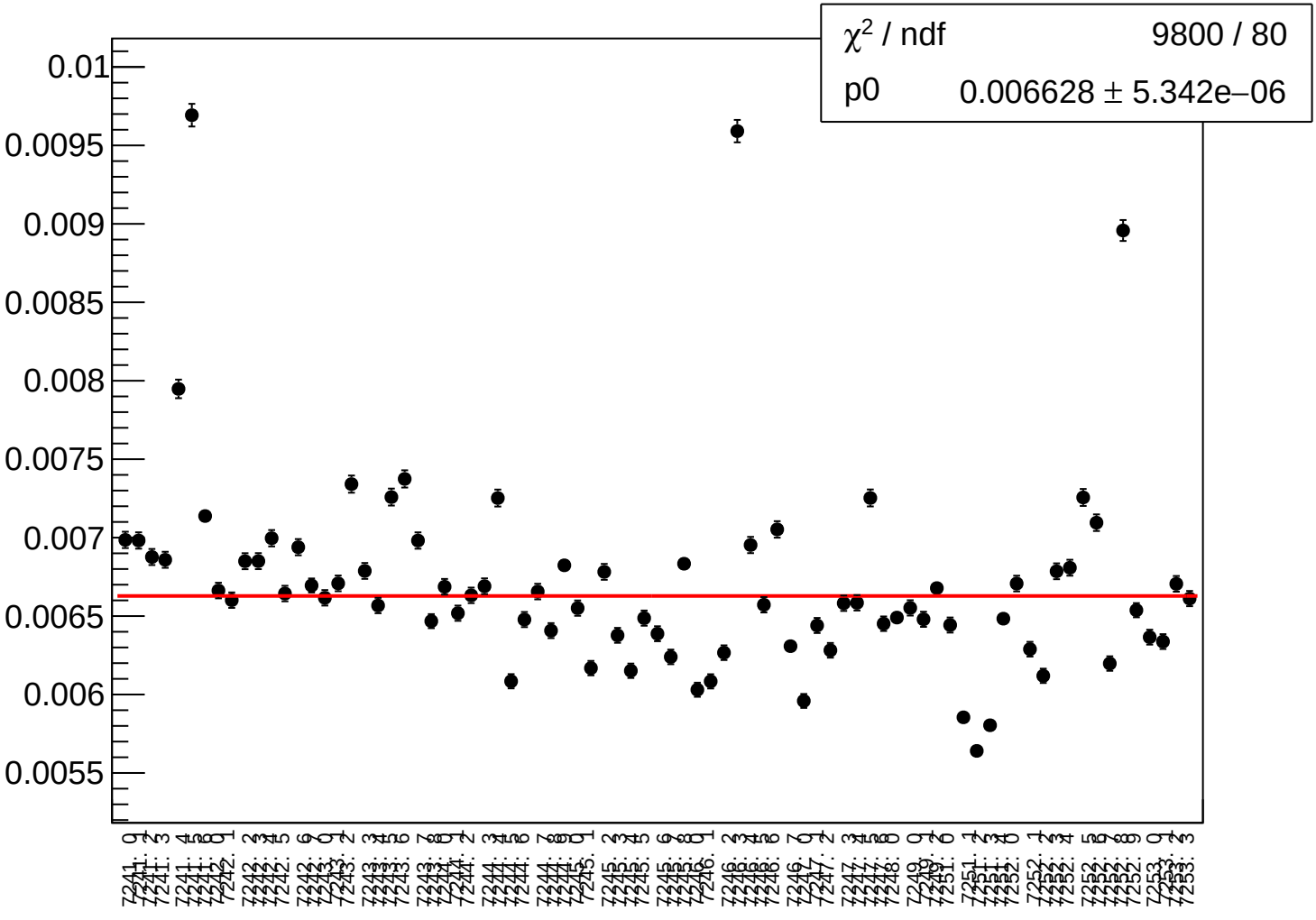

yield_bpm1i02Y_mean vs run
χ² / ndf 4.725e+07 / 80
p0 −1.236 ± 7.624e−06
−1.16
−1.18
−1.2
−1.22
−1.24
−1.26
−1.28
−1.3
pull
Entries 81
Mean −1203
Std Dev 0
1500
1000
500
0
−500
−1000

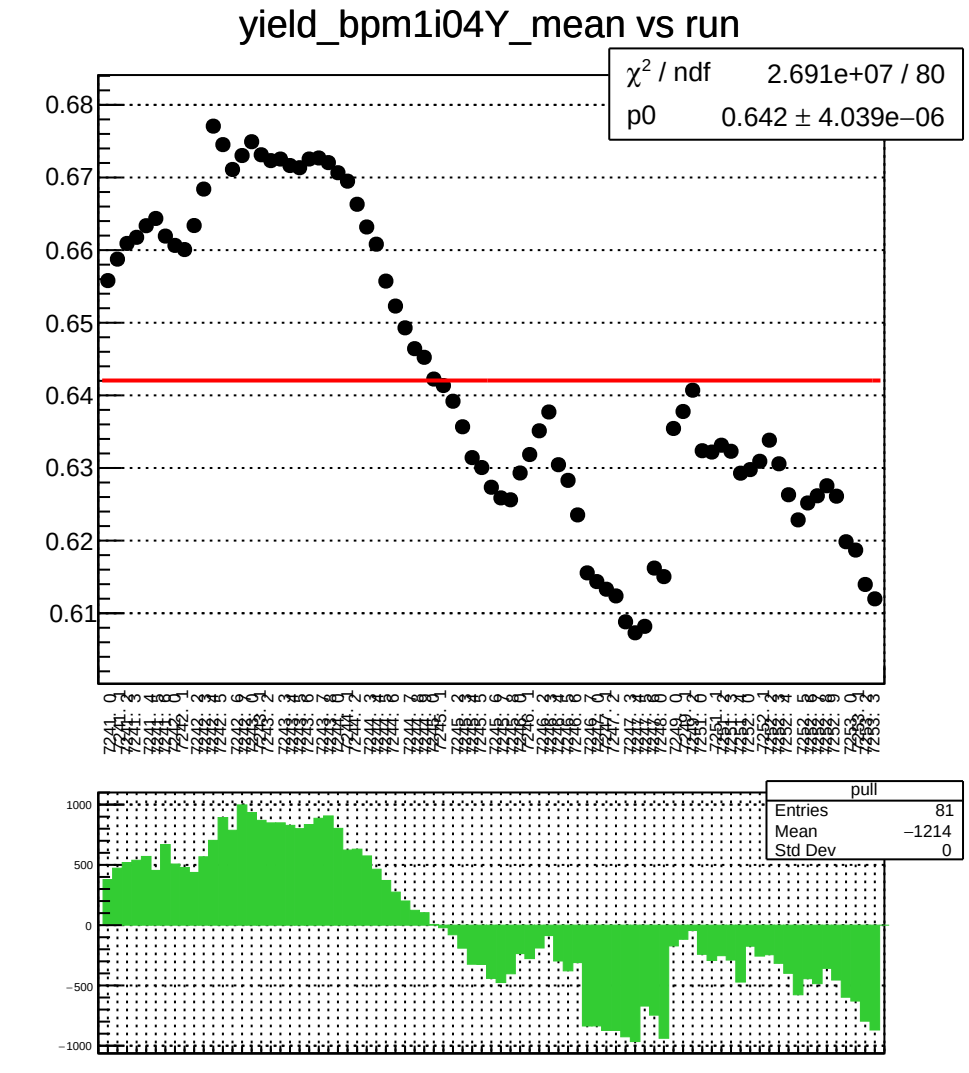

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

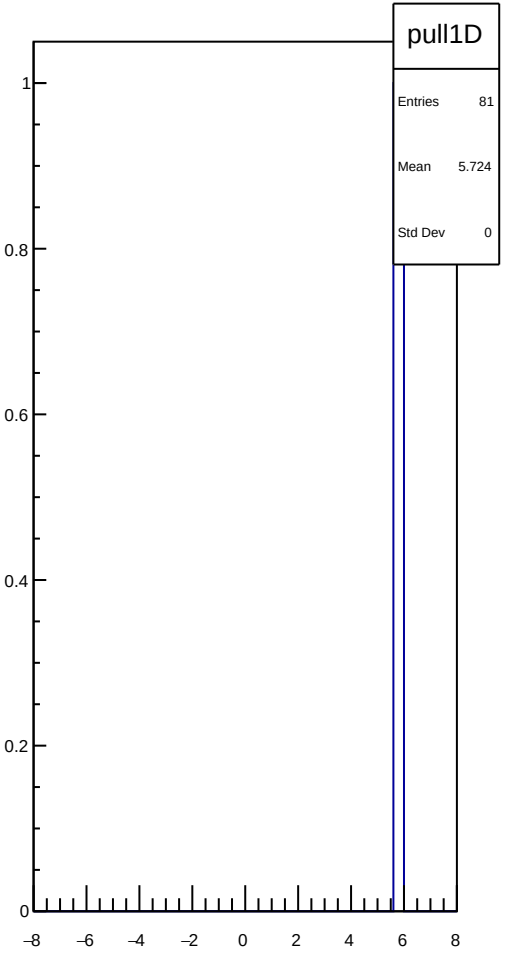

yield_bpm1i02Y_rms vs run
χ^2 / ndf 1.032e+04 / 80
p0 0.006687 ± 5.391e−06
0.011
0.01
0.009
0.008
0.007
0.006


yield_bpm1i04X_mean vs run
χ² / ndf 3.432e+06 / 80
p0 1.08 ± 7.555e−06
1.11
1.1
1.09
1.08
1.07
1.06
1.05
pull
Entries 81
Mean −686.2
Std Dev 0
400
200
0
−200
−400
pull1D
Entries 81
Mean −3.104
Std Dev 0.7571
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

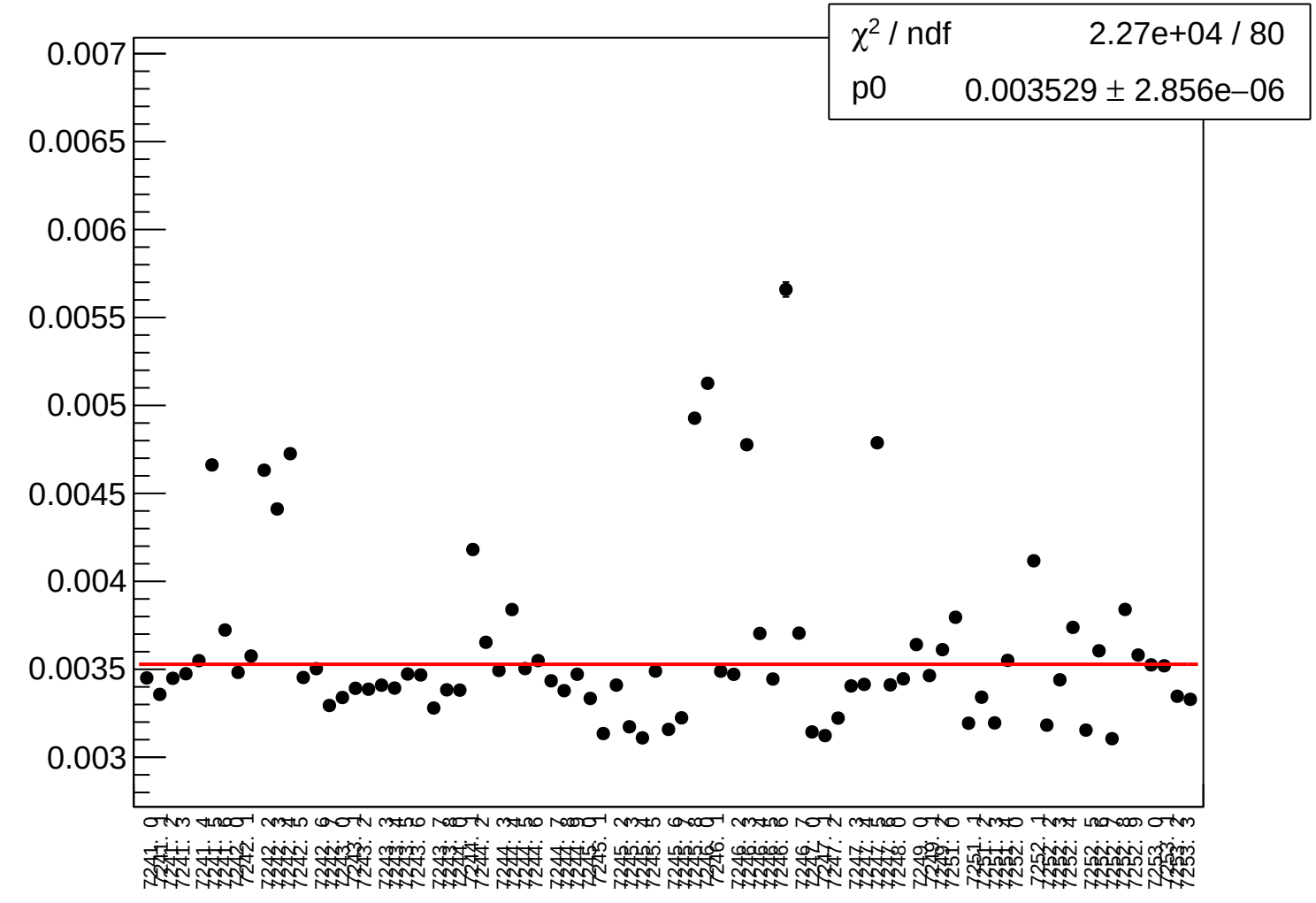
yield_bpm1i04X_rms vs run

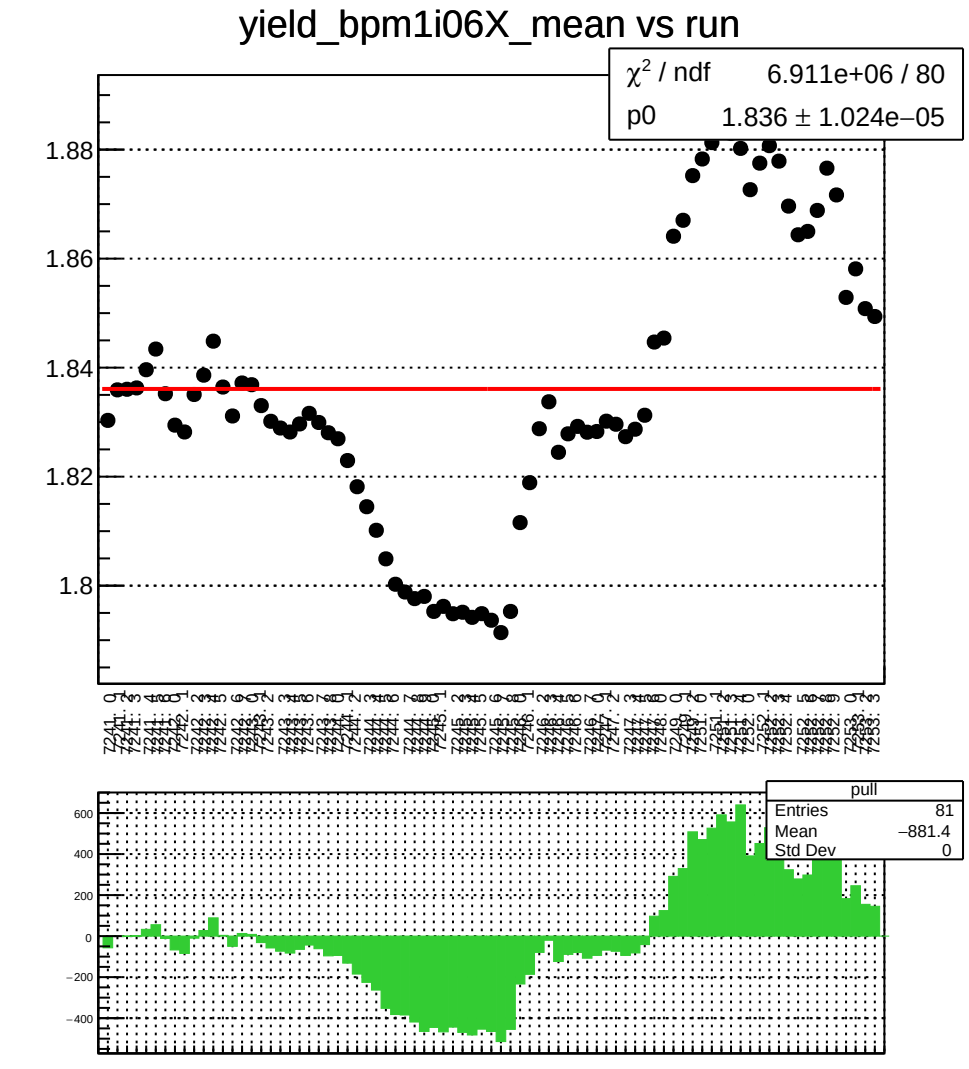


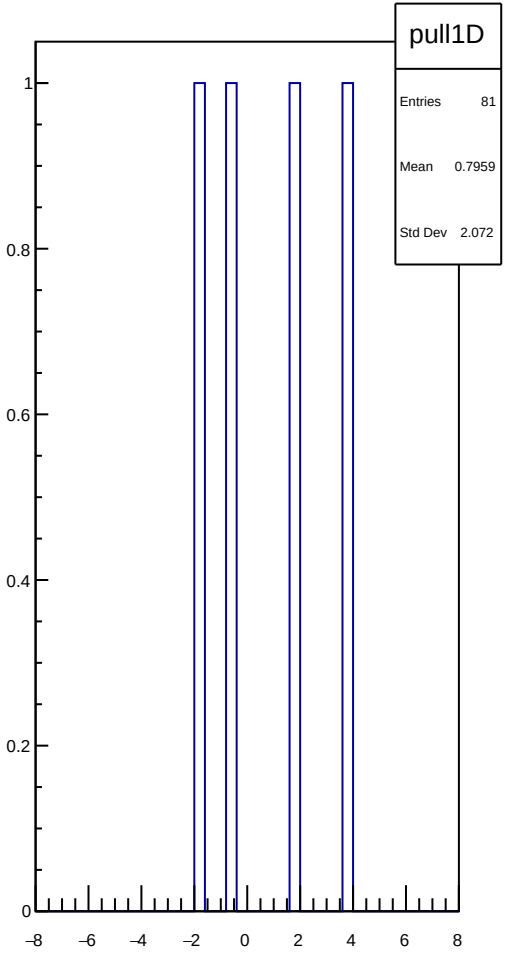

yield_bpm1i04Y_mean vs run
χ² / ndf 2.691e+07 / 80
p0 0.642 ± 4.039e−06
0.68
0.67
0.66
0.65
0.64
0.63
0.62
0.61
pull
Entries 81
Mean −1214
Std Dev 0
1000
500
0
−500
−1000

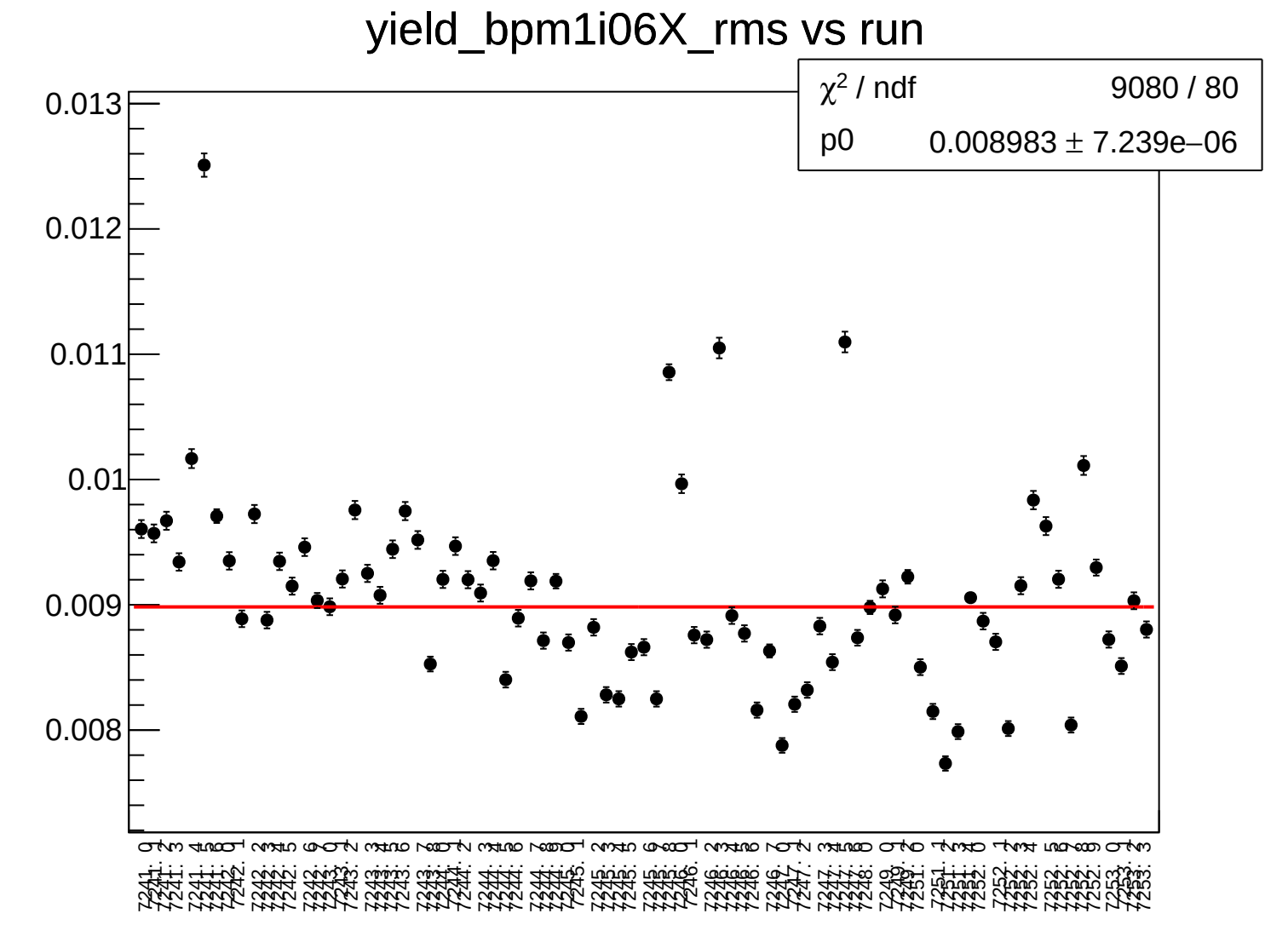

pull1D
Entries 81
Mean 5.724
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

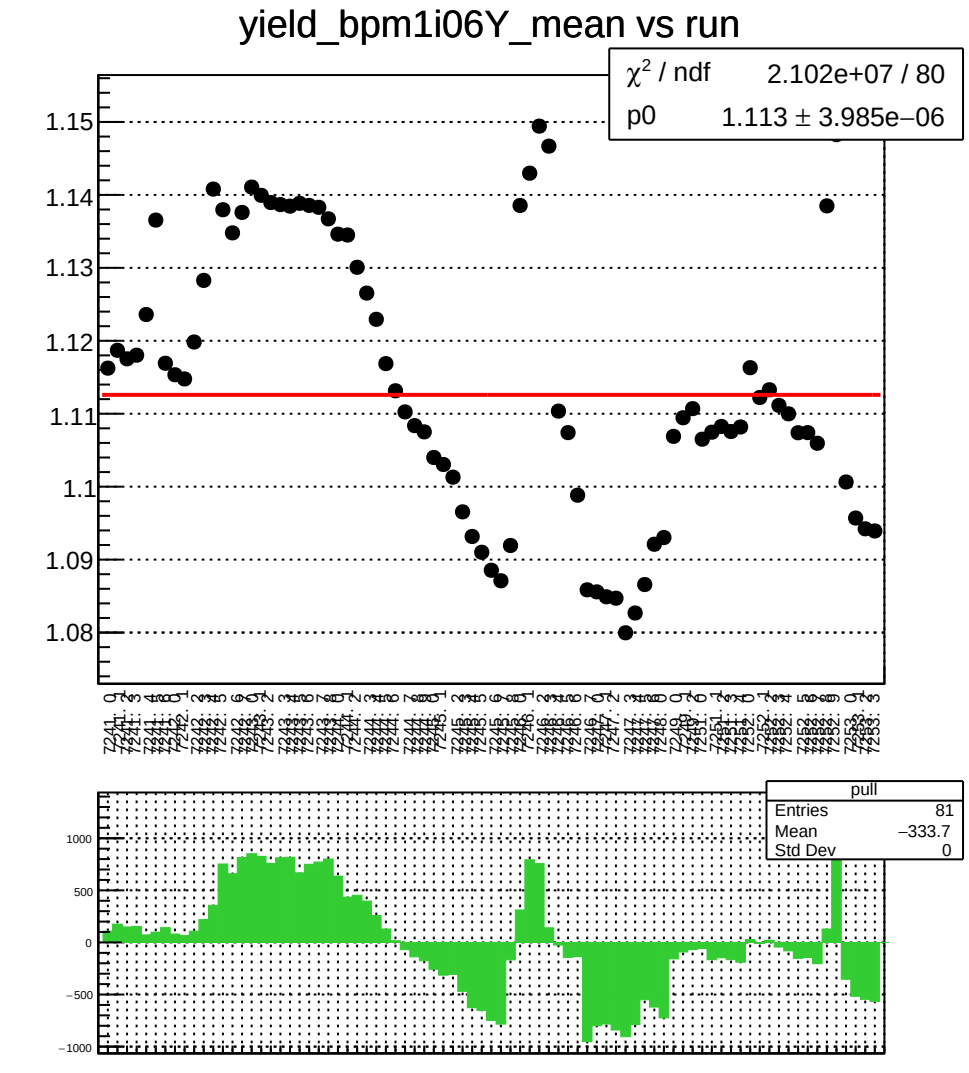
yield_bpm1i04Y_rms vs run

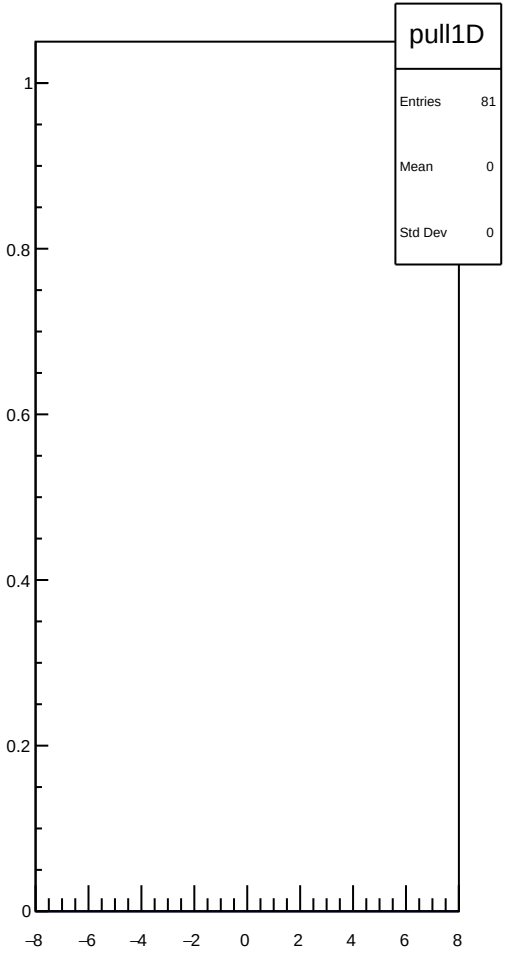


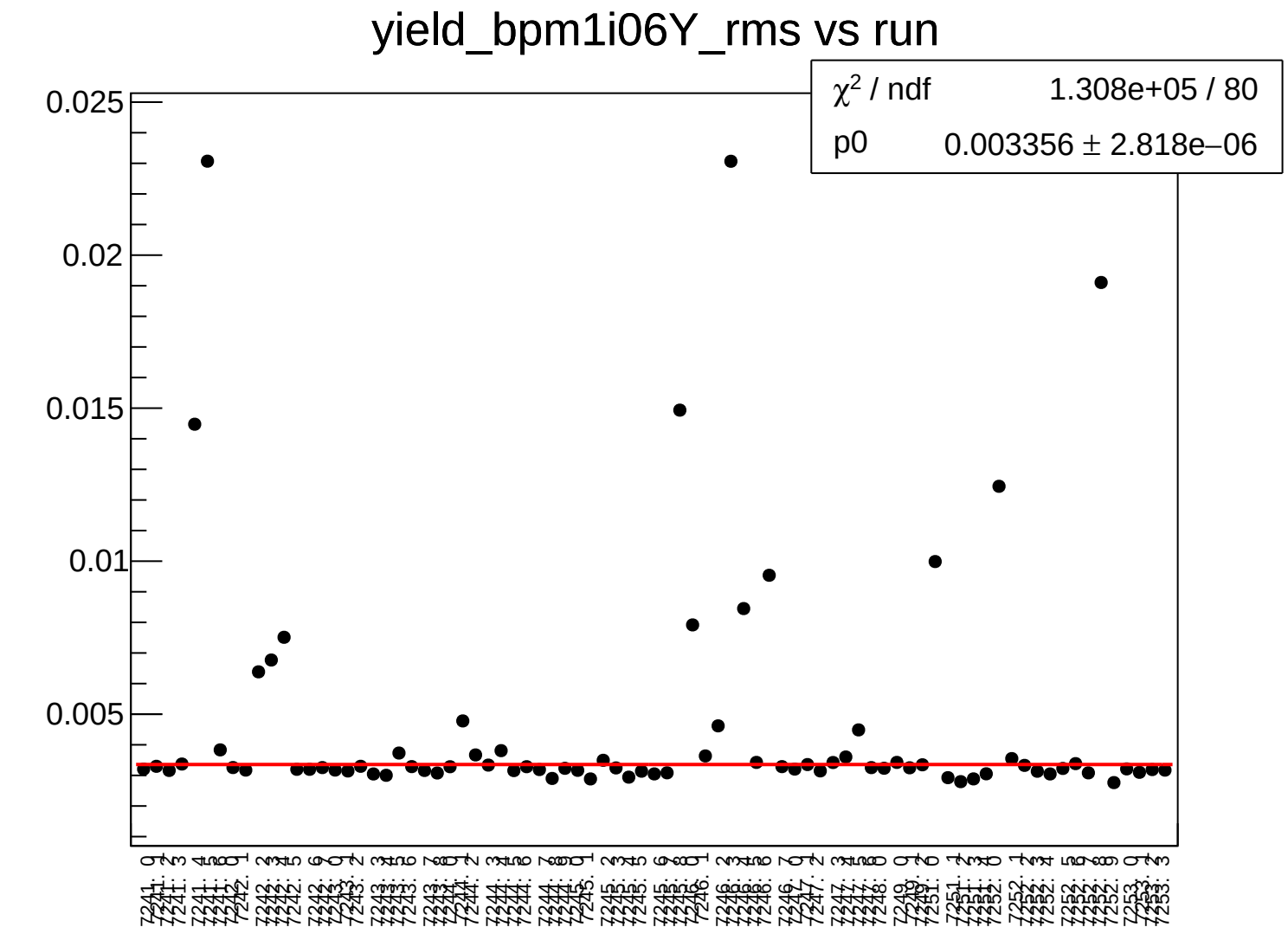

yield_bpm1i06X_mean vs run
χ² / ndf 6.911e+06 / 80
p0 1.836 ± 1.024e−05
1.88
1.86
1.84
1.82
1.8
pull
Entries 81
Mean −881.4
Std Dev 0
600
400
200
0
−200
−400

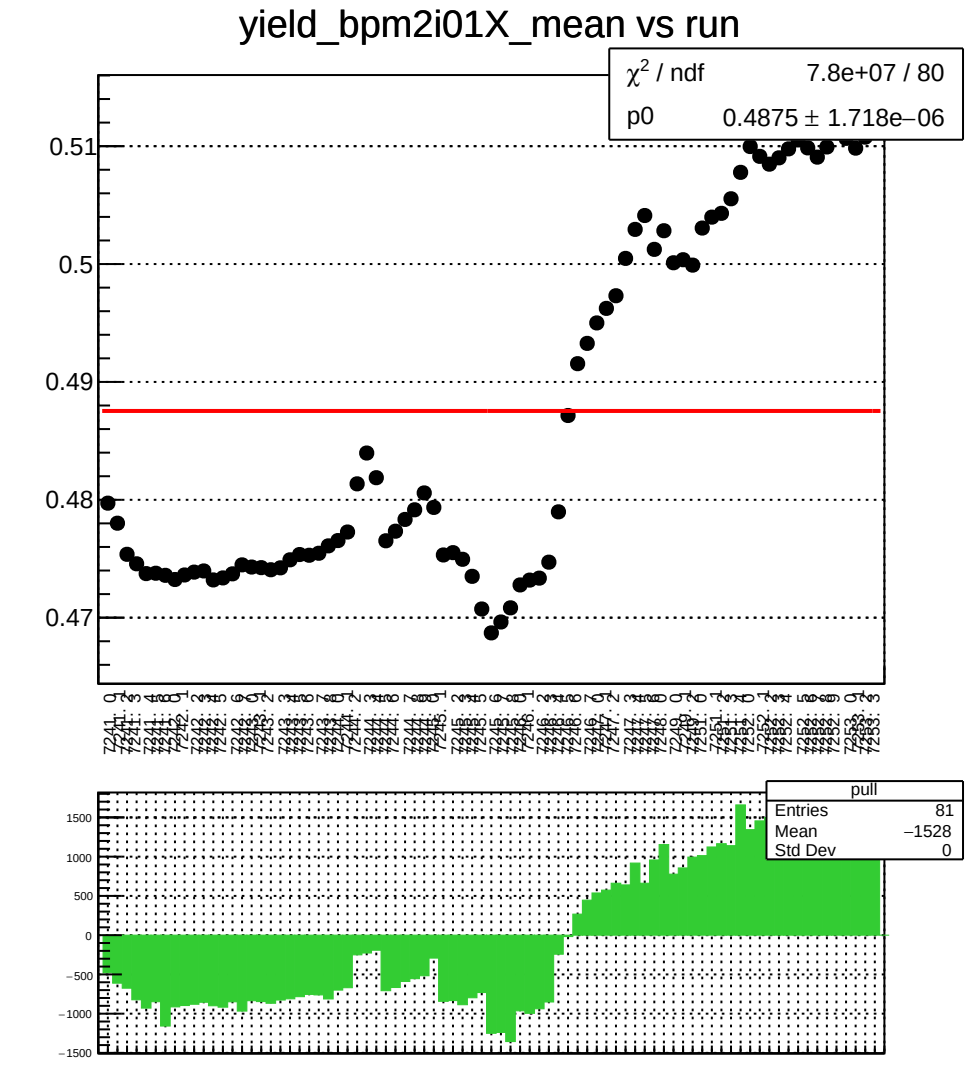

pull1D
Entries 81
Mean 0.7959
Std Dev 2.072
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

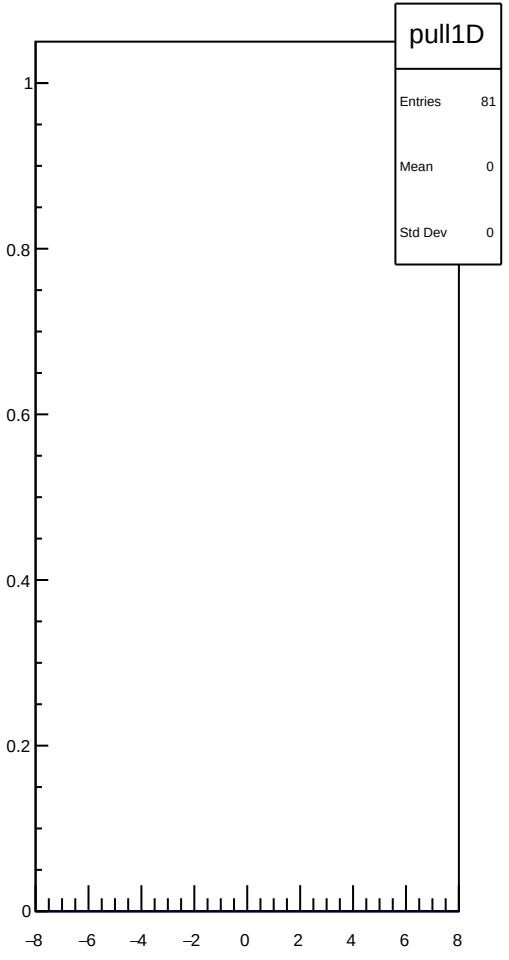

yield_bpm1i06X_rms vs run
χ^2 / ndf 9080 / 80
p0 0.008983 ± 7.239e−06
0.013
0.012
0.011
0.01
0.009
0.008

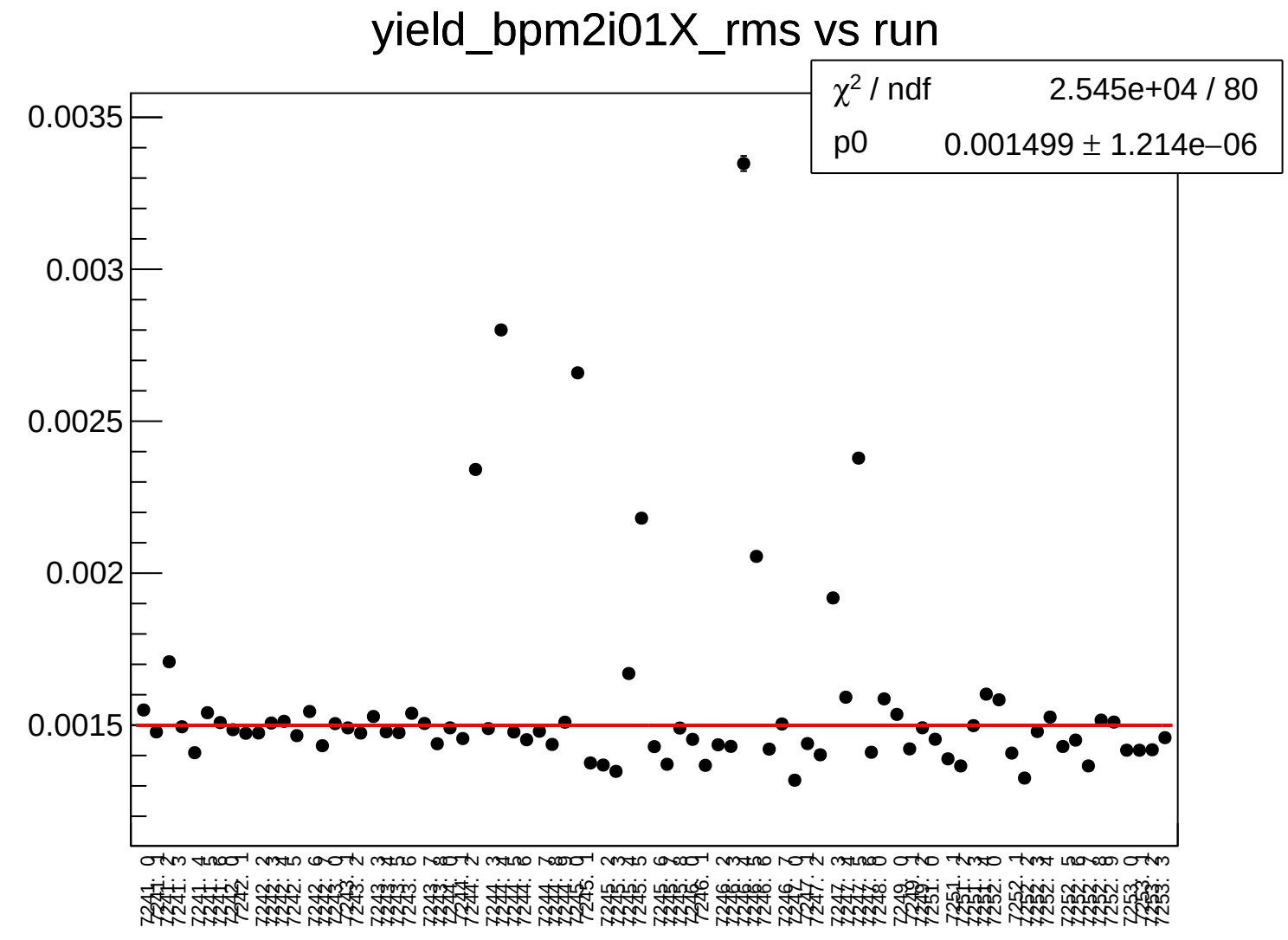

yield_bpm1i06Y_mean vs run
χ² / ndf 2.102e+07 / 80
p0 1.113 ± 3.985e−06
1.15
1.14
1.13
1.12
1.11
1.1
1.09
1.08
pull
Entries 81
Mean −333.7
Std Dev 0
1000
500
0
−500
−1000

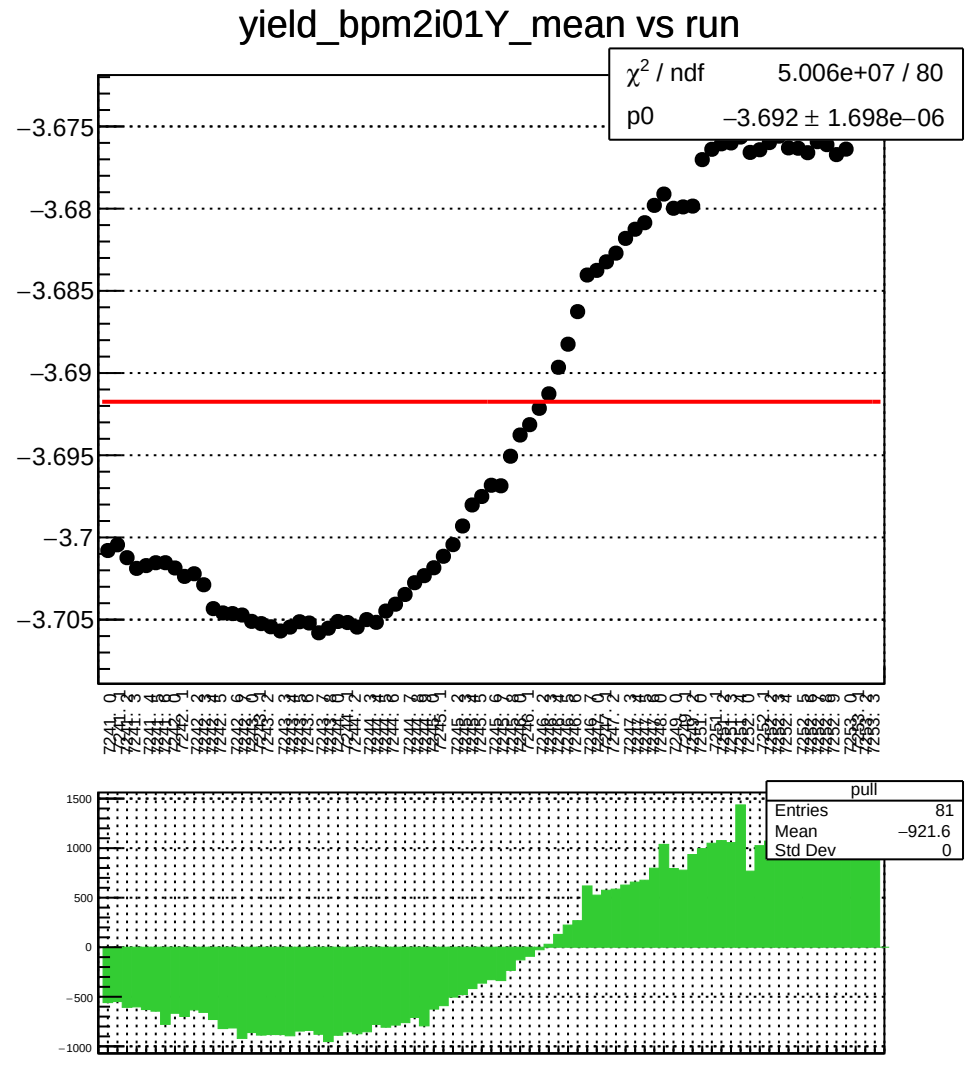

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

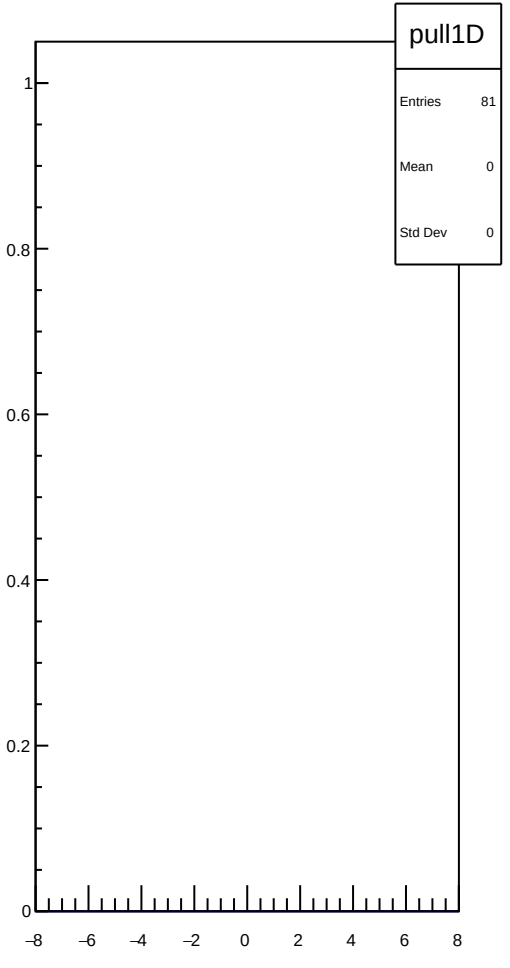

yield_bpm1i06Y_rms vs run
χ² / ndf 1.308e+05 / 80
p0 0.003356 ± 2.818e−06
0.025
0.02
0.015
0.01
0.005

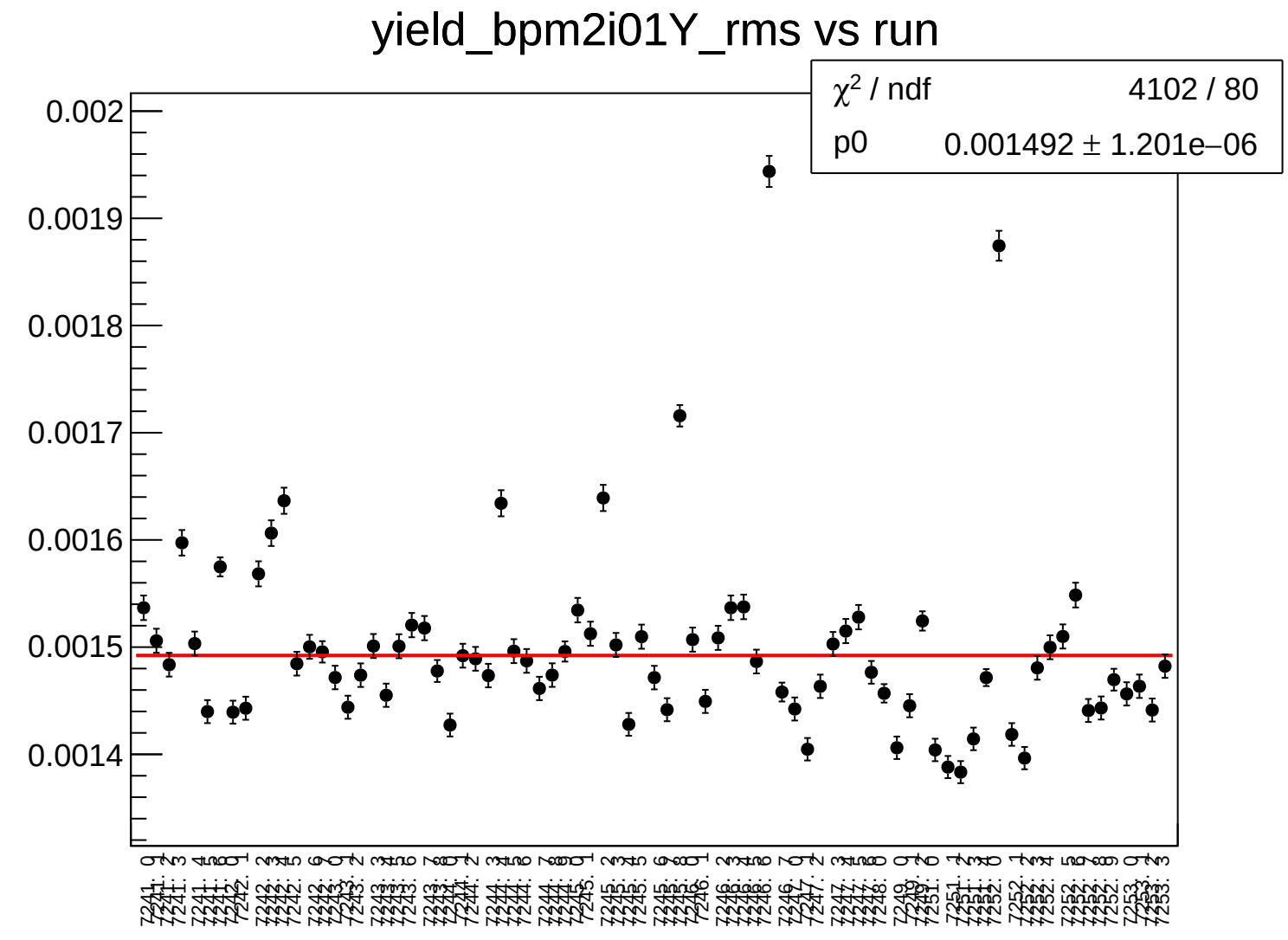

yield_bpm2i01X_mean vs run
χ² / ndf 7.8e+07 / 80
p0 0.4875 ± 1.718e−06
0.51
0.5
0.49
0.48
0.47
pull
Entries 81
Mean −1528
Std Dev 0
1500
1000
500
0
−500
−1000
−1500

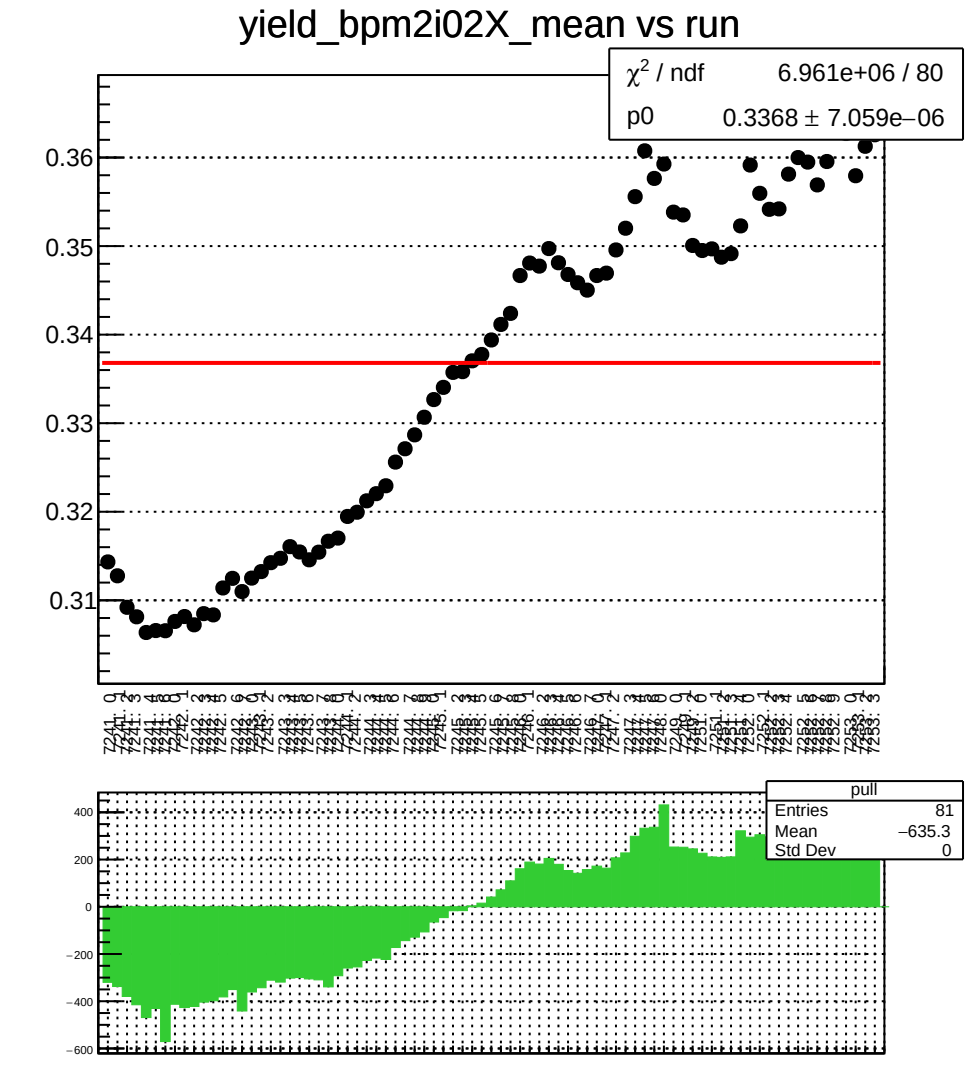

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

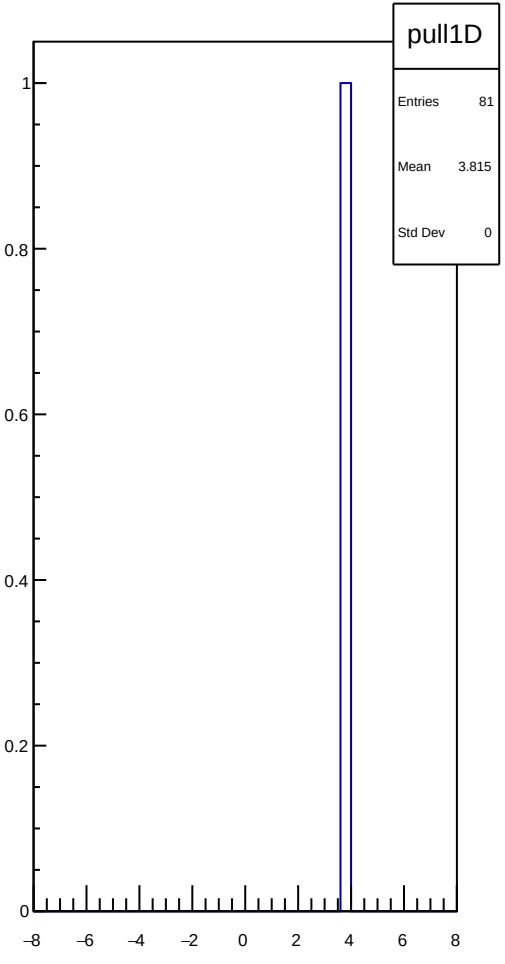

yield_bpm2i01X_rms vs run
χ² / ndf 2.545e+04 / 80
p0 0.001499 ± 1.214e−06
0.0035
0.003
0.0025
0.002
0.0015

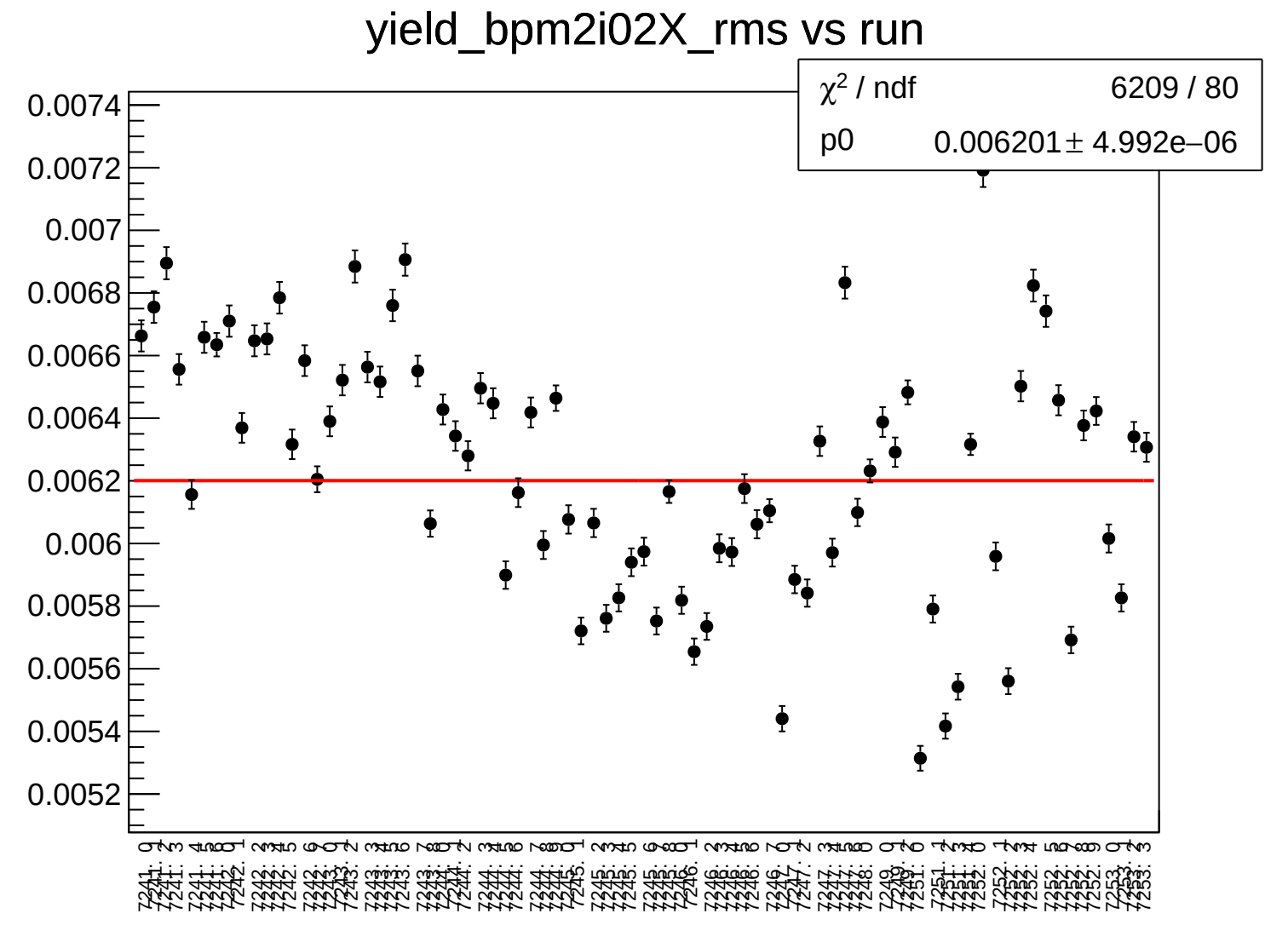

yield_bpm2i01Y_mean vs run
χ² / ndf 5.006e+07 / 80
p0 −3.692 ± 1.698e−06
−3.675
−3.68
−3.685
−3.69
−3.695
−3.7
−3.705
pull
Entries 81
Mean −921.6
Std Dev 0
1500
1000
500
0
−500
−1000

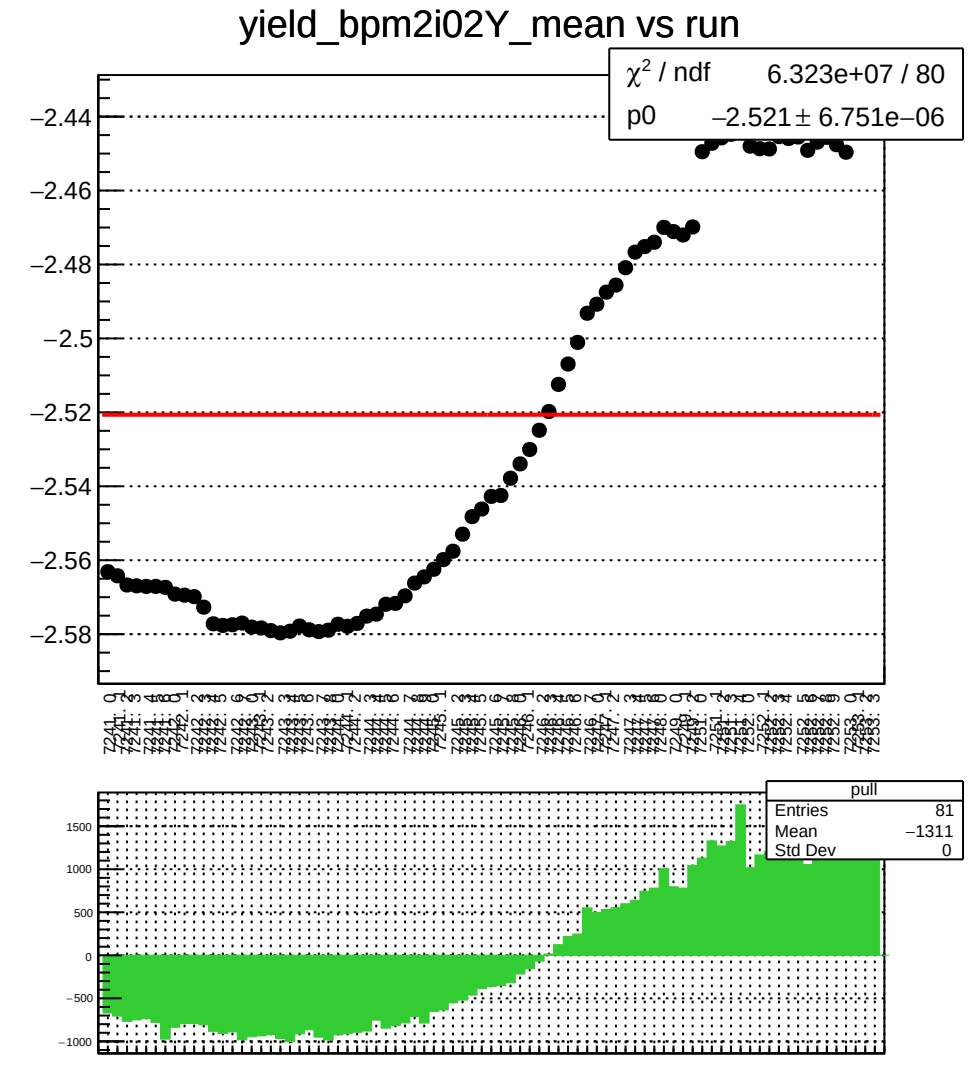

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

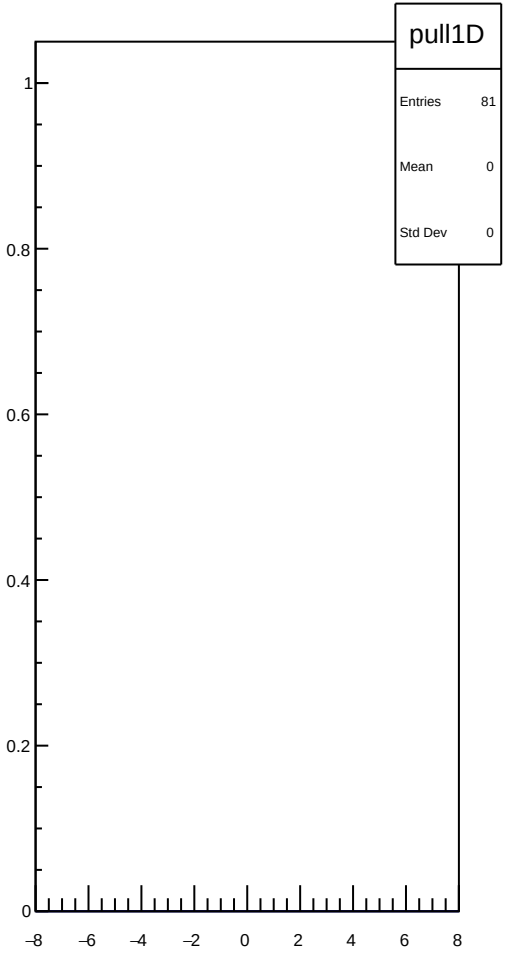

yield_bpm2i01Y_rms vs run
χ² / ndf 4102 / 80
p0 0.001492 ± 1.201e−06
0.002
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014

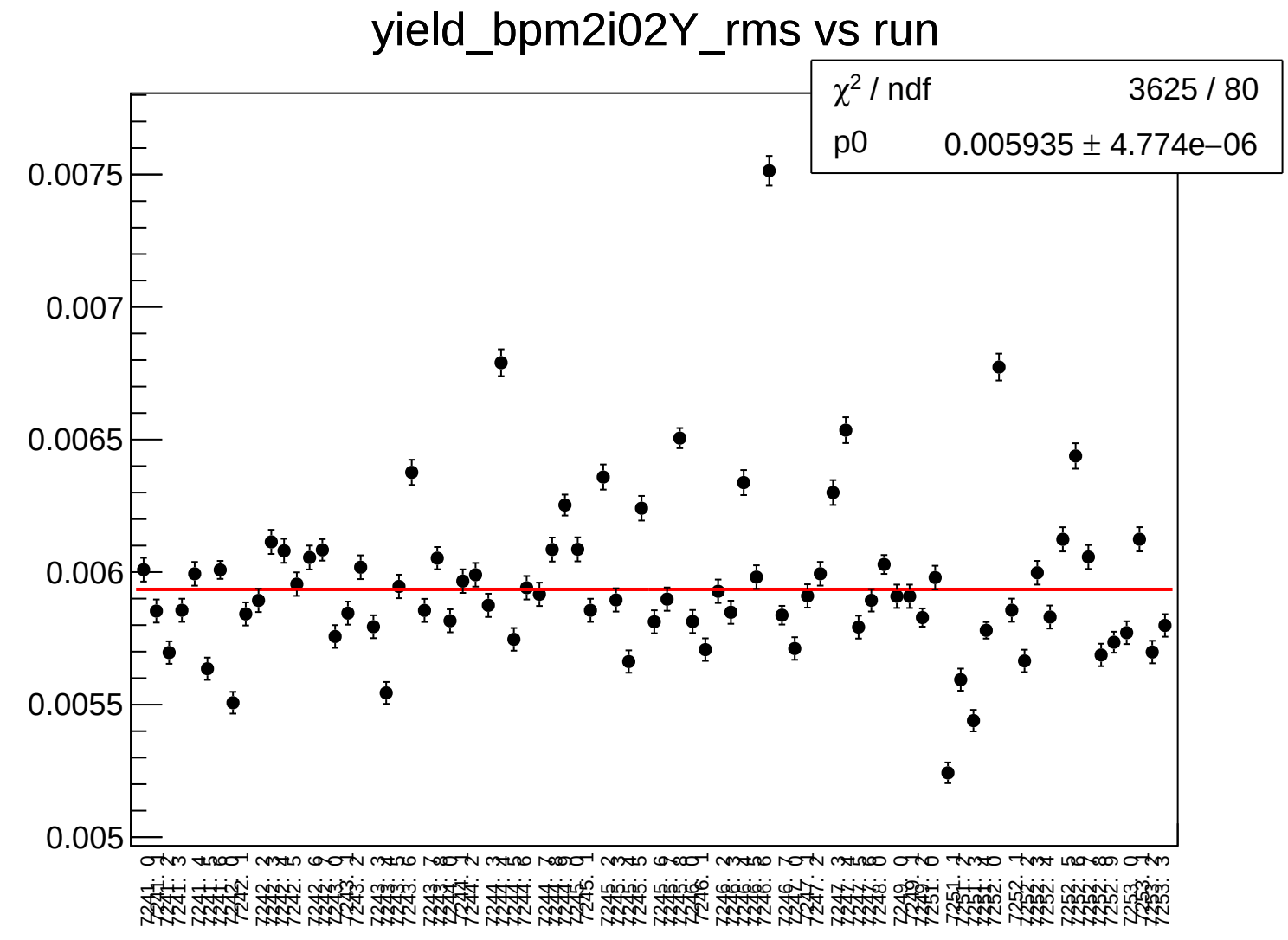

yield_bpm2i02X_mean vs run
χ² / ndf 6.961e+06 / 80
p0 0.3368 ± 7.059e−06
0.36
0.35
0.34
0.33
0.32
0.31
pull
Entries 81
Mean −635.3
Std Dev 0
400
200
0
−200
−400
−600

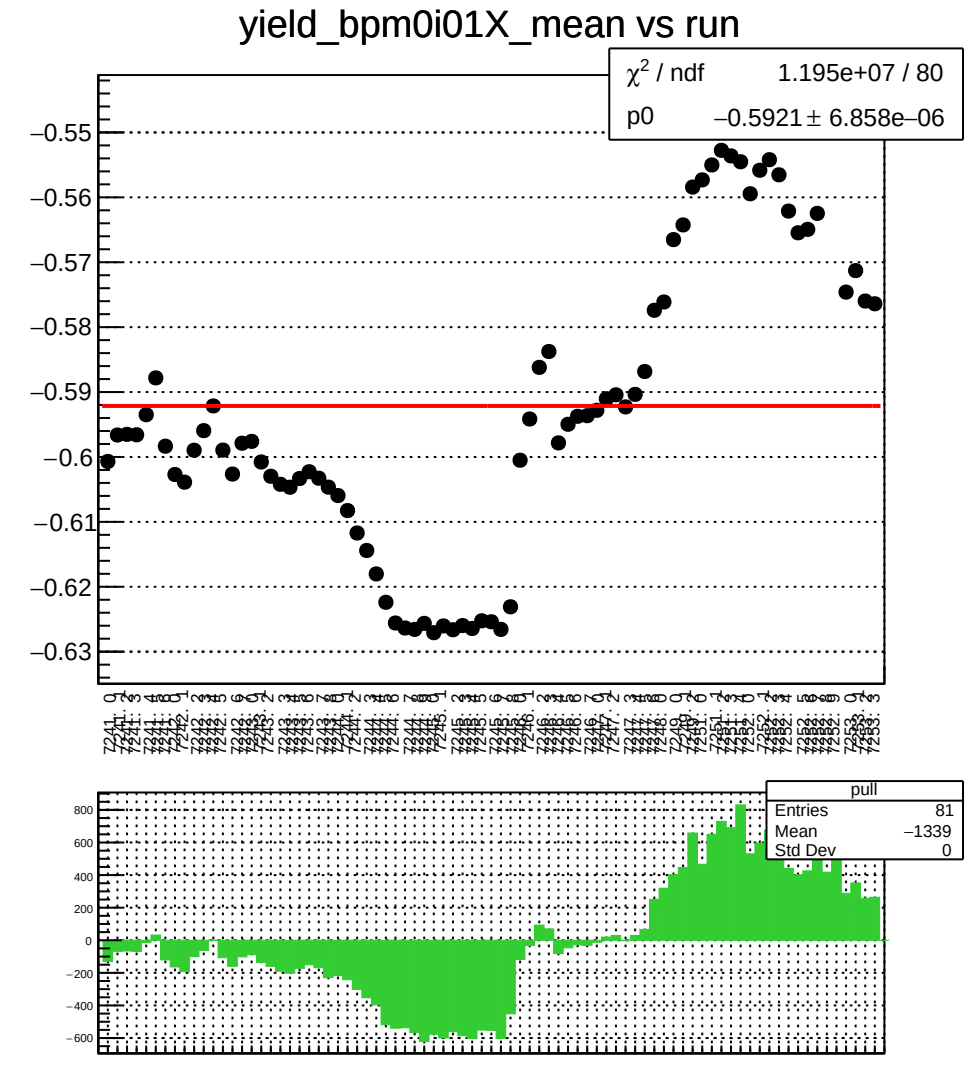

pull1D
Entries 81
Mean 3.815
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

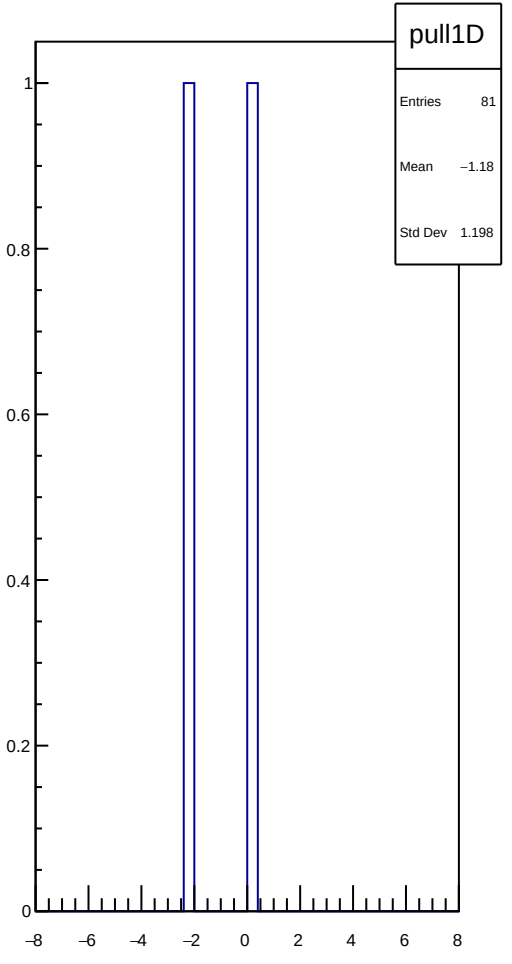

yield_bpm2i02X_rms vs run
χ² / ndf 6209 / 80
p0 0.006201 ± 4.992e−06
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
0.006
0.0058
0.0056
0.0054
0.0052

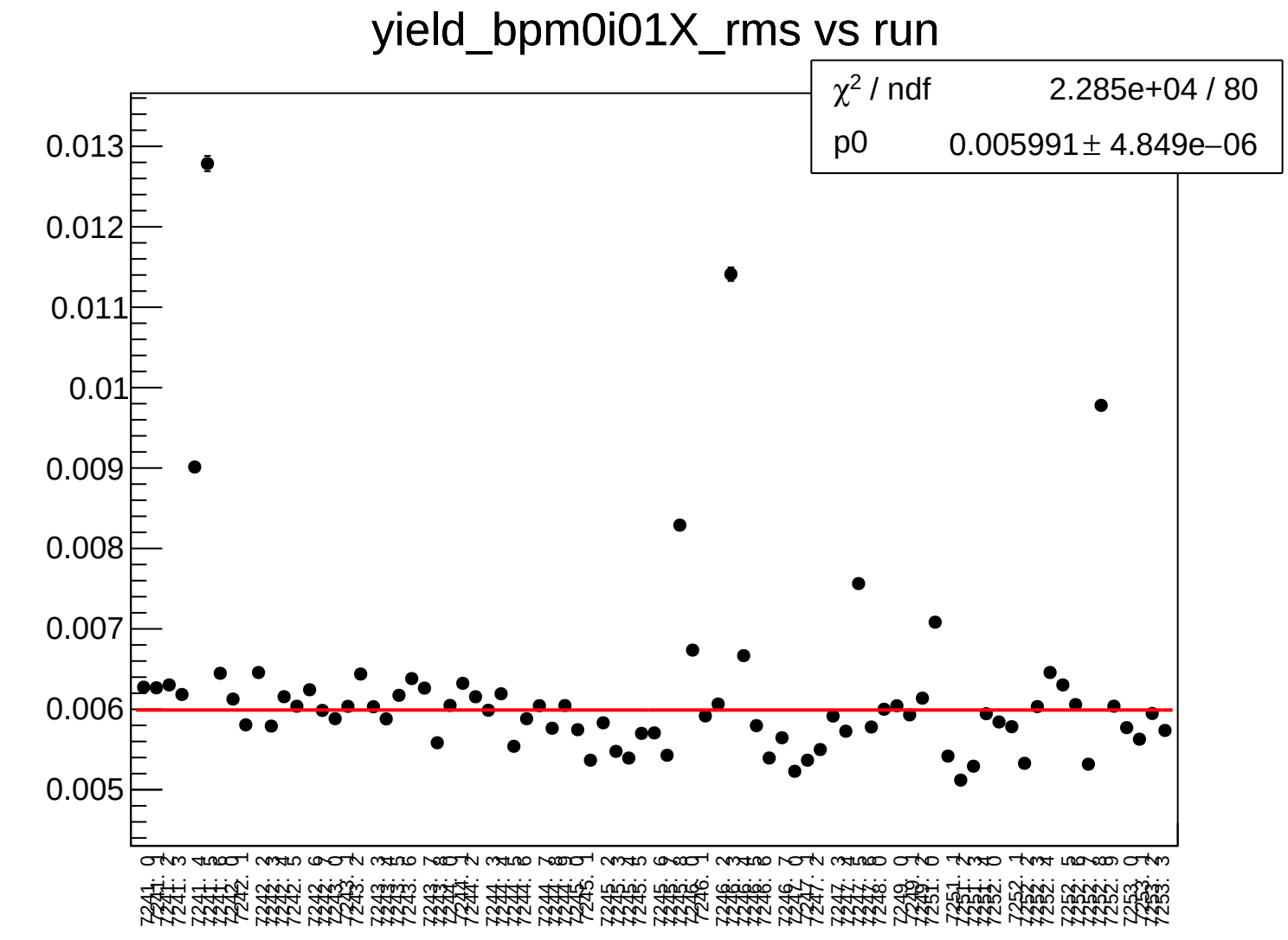

yield_bpm2i02Y_mean vs run
χ² / ndf 6.323e+07 / 80
p0 −2.521 ± 6.751e−06
−2.44
−2.46
−2.48
−2.5
−2.52
−2.54
−2.56
−2.58
pull
Entries 81
Mean −1311
Std Dev 0
1500
1000
500
0
−500
−1000

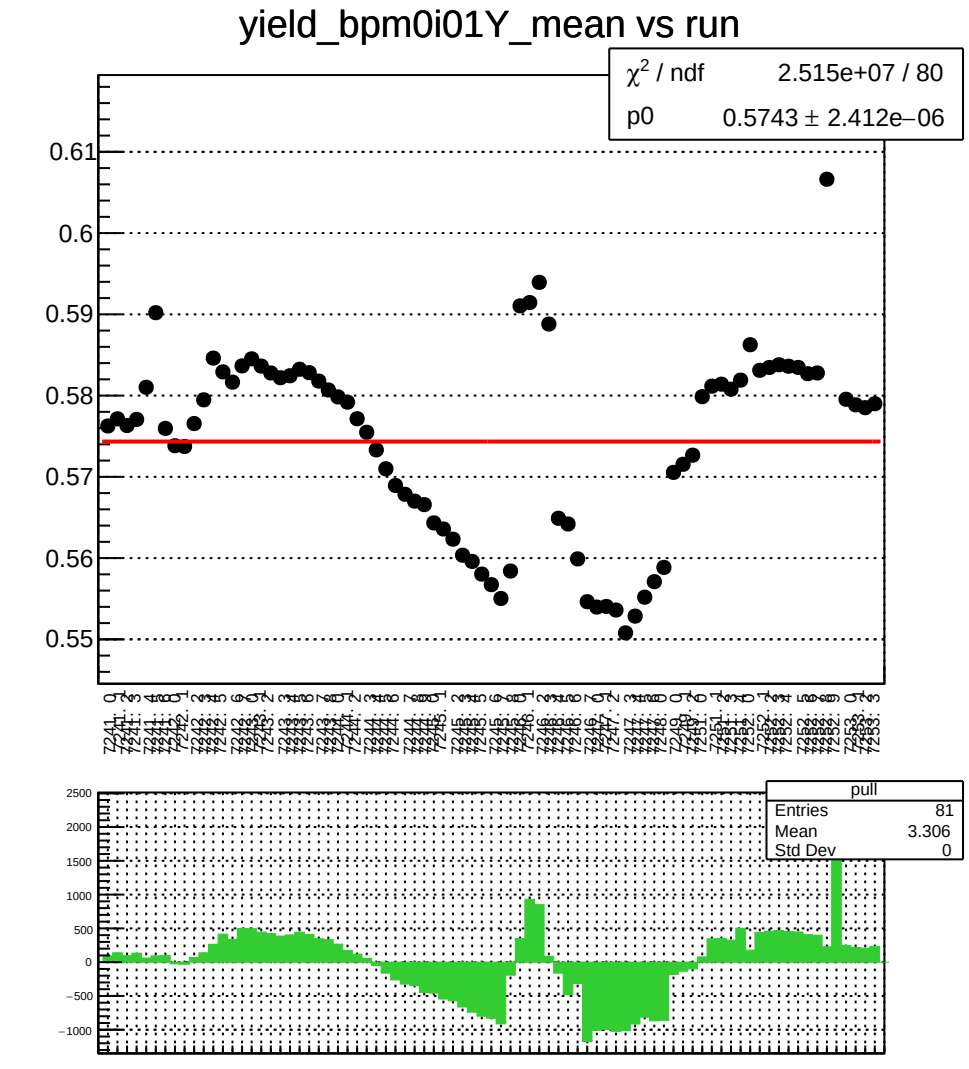

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

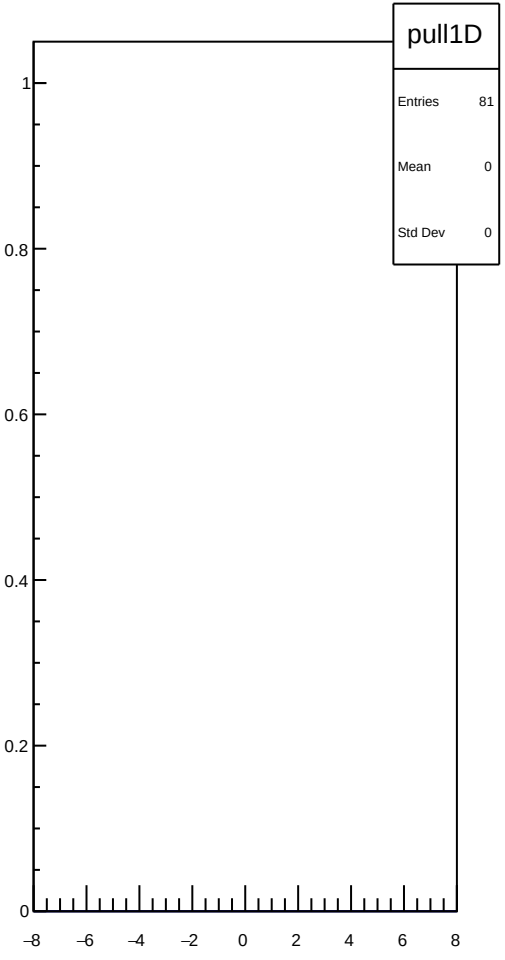

yield_bpm2i02Y_rms vs run
χ² / ndf 3625 / 80
p0 0.005935 ± 4.774e−06
0.0075
0.007
0.0065
0.006
0.0055
0.005

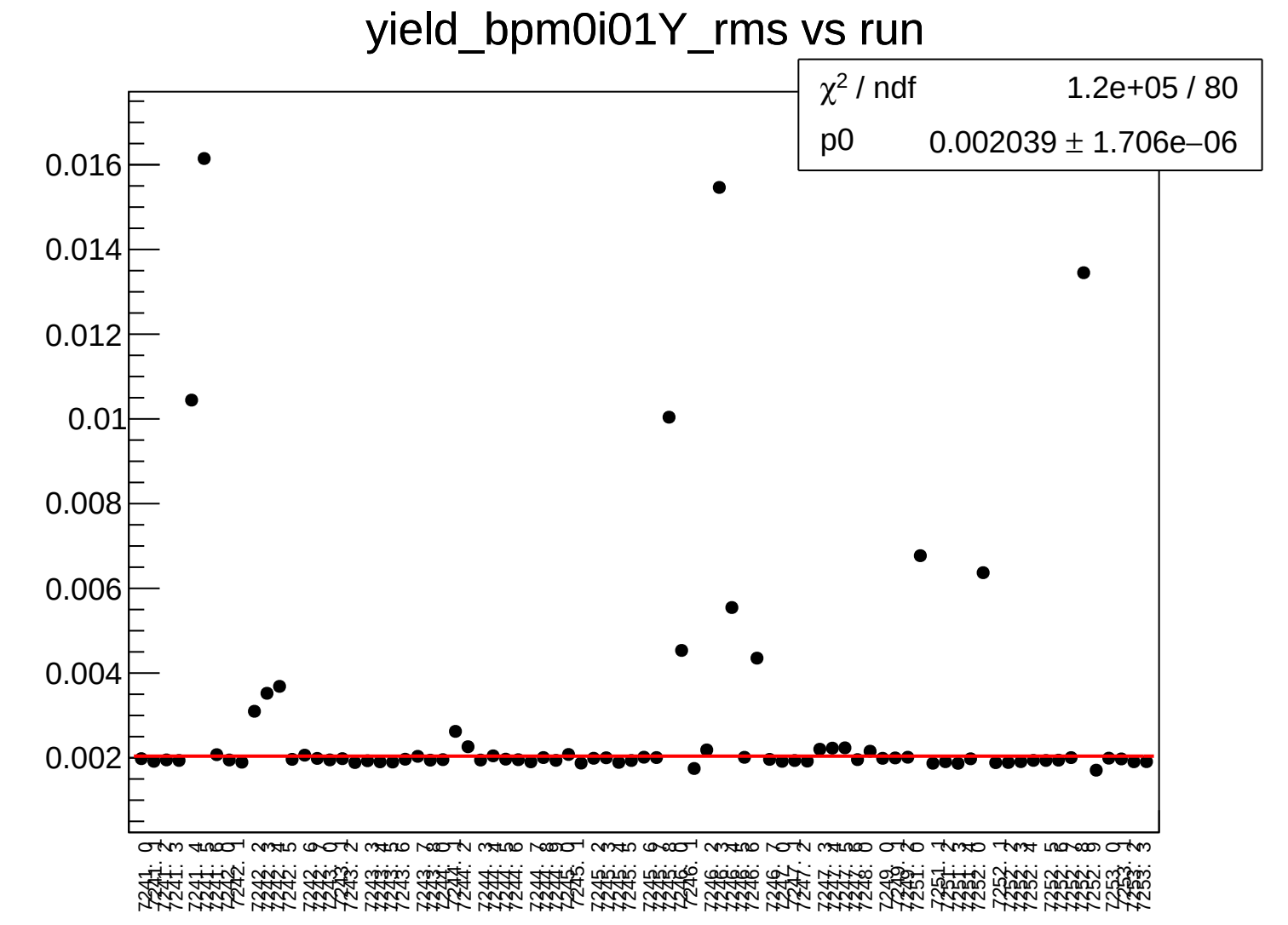

yield_bpm0i01X_mean vs run
χ² / ndf 1.195e+07 / 80
p0 −0.5921 ± 6.858e−06
−0.55
−0.56
−0.57
−0.58
−0.59
−0.6
−0.61
−0.62
−0.63
pull
Entries 81
Mean −1339
Std Dev 0
800
600
400
200
0
−200
−400
−600

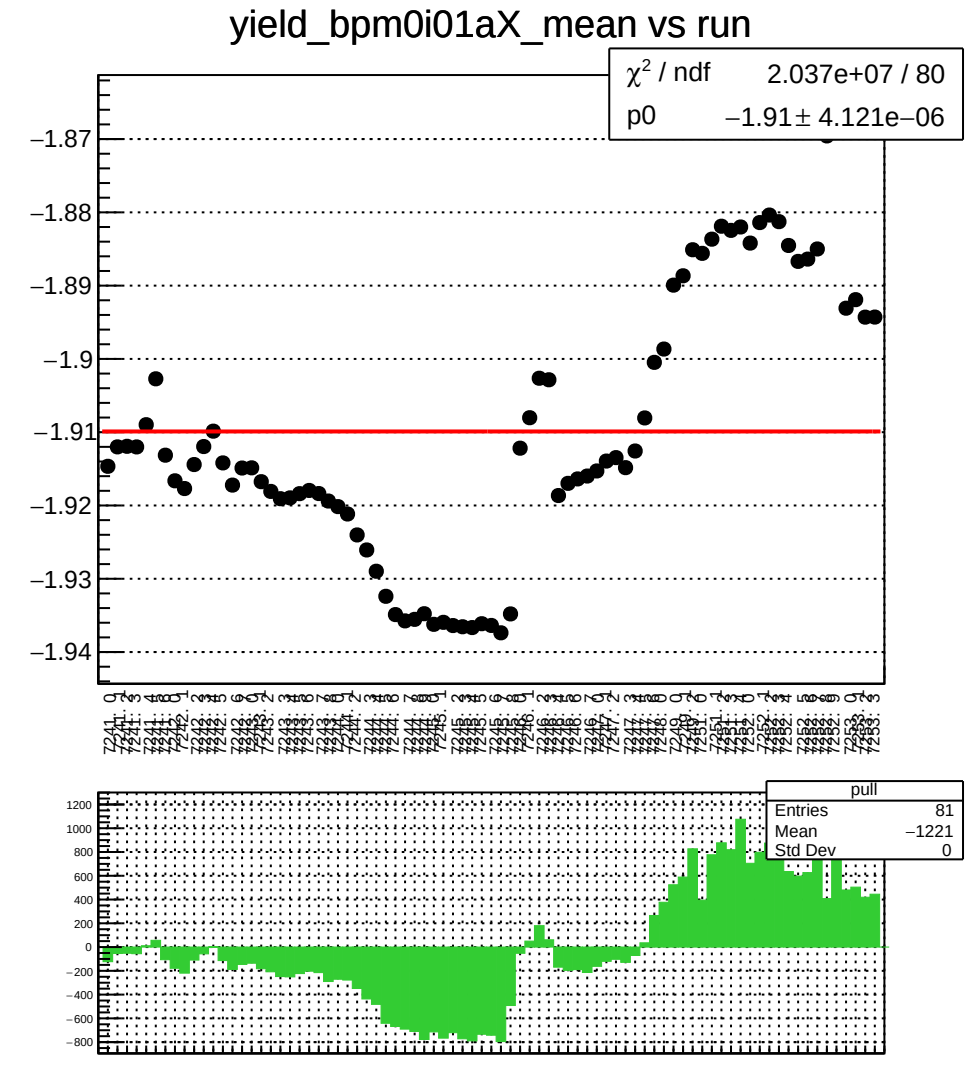

pull1D
Entries 81
Mean −1.18
Std Dev 1.198
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

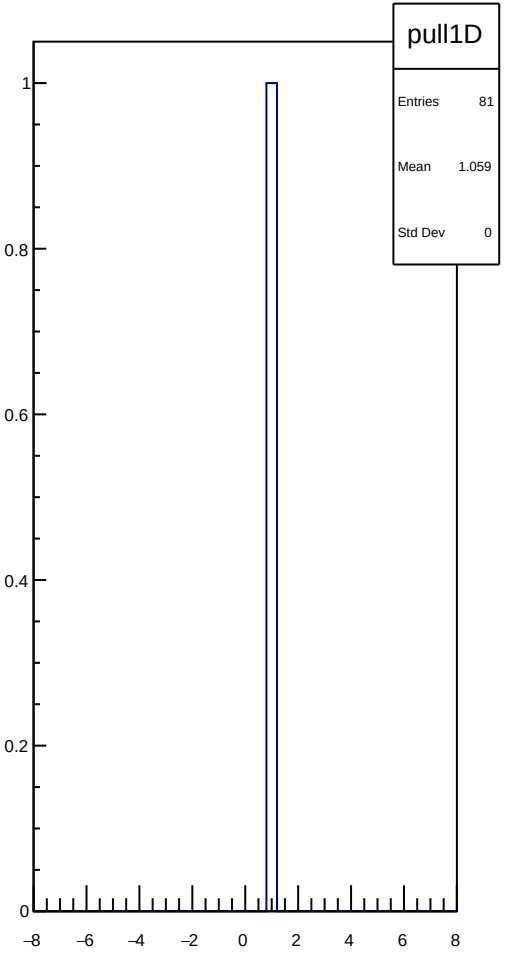

yield_bpm0i01X_rms vs run
χ² / ndf 2.285e+04 / 80
p0 0.005991 ± 4.849e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005

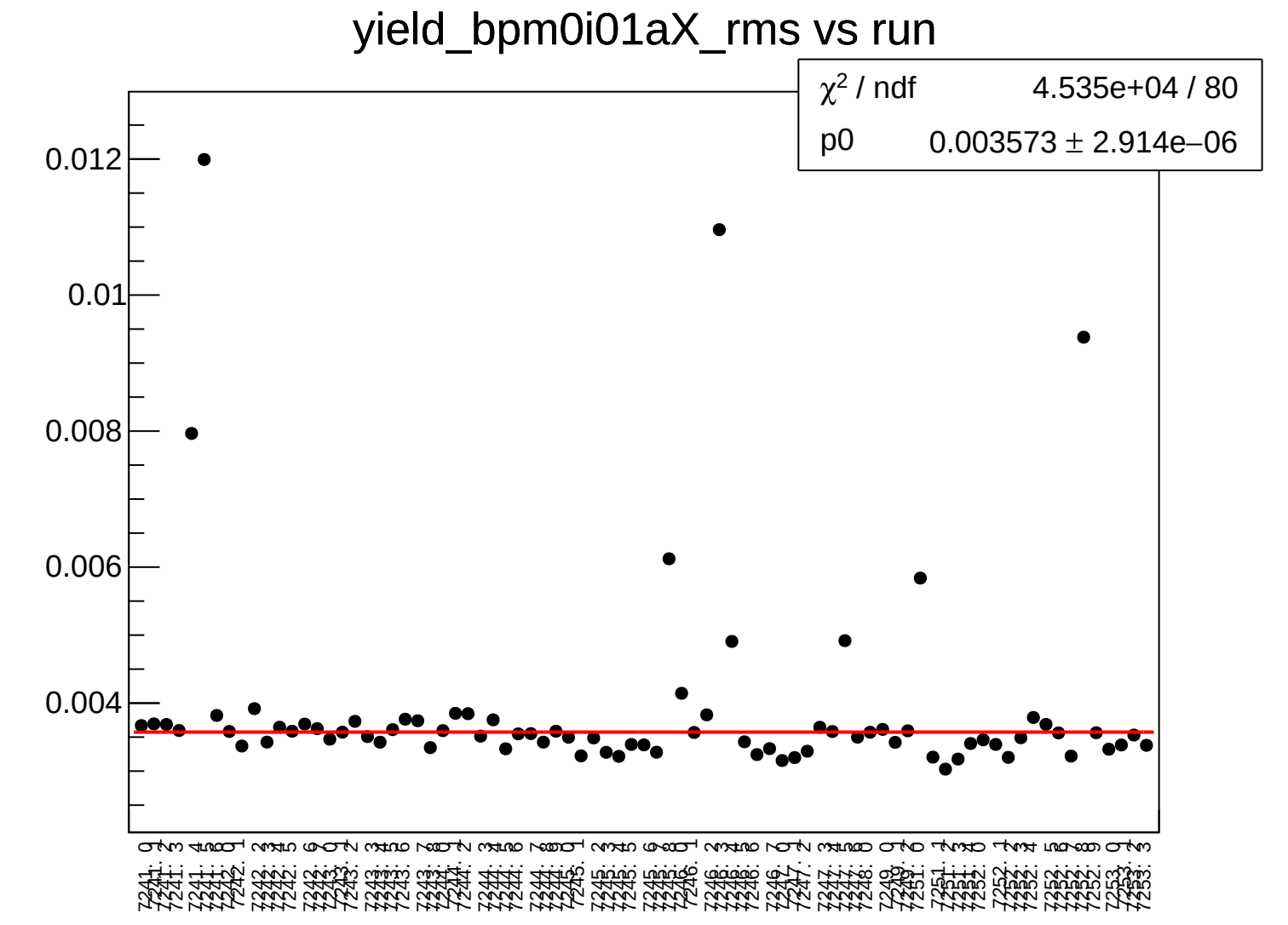

yield_bpm0i01Y_mean vs run
χ² / ndf 2.515e+07 / 80
p0 0.5743 ± 2.412e−06
0.61
0.6
0.59
0.58
0.57
0.56
0.55
pull
Entries 81
Mean 3.306
Std Dev 0
2500
2000
1500
1000
500
0
−500
−1000

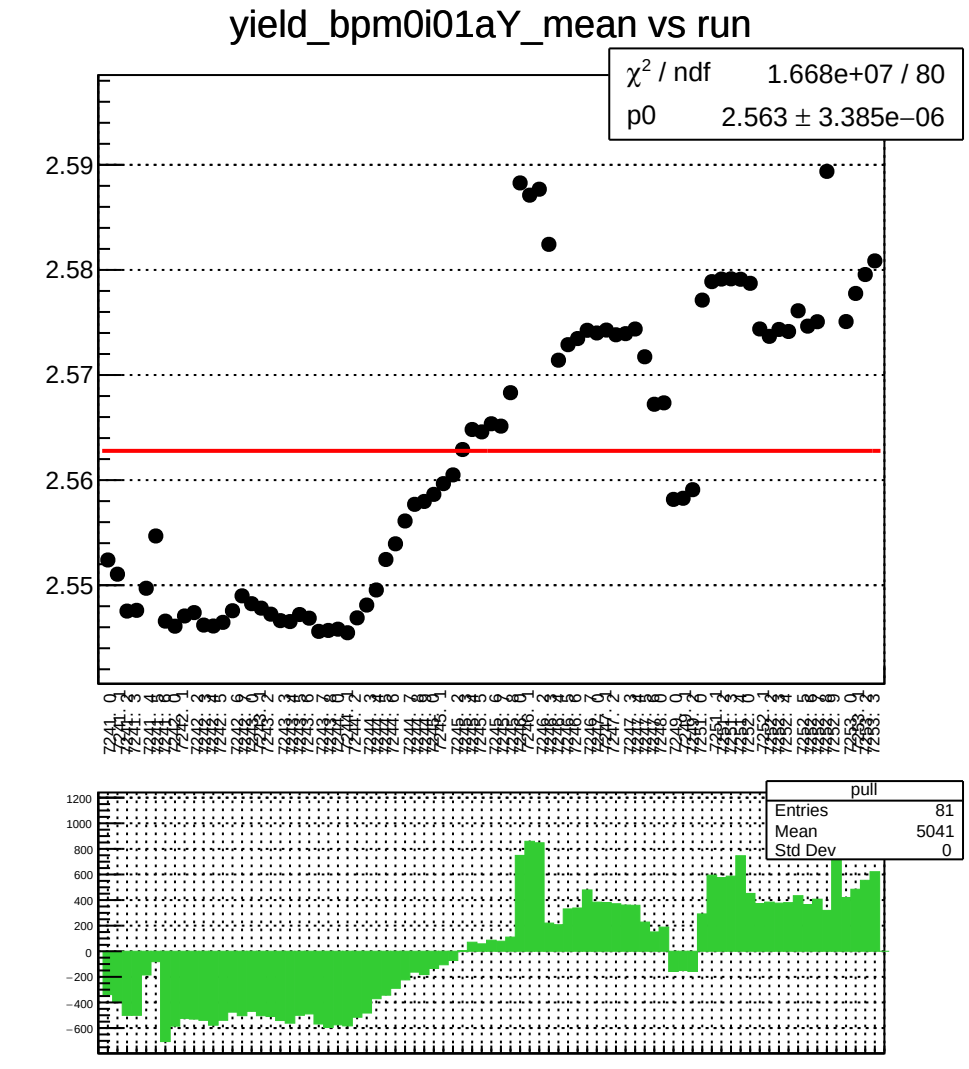

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

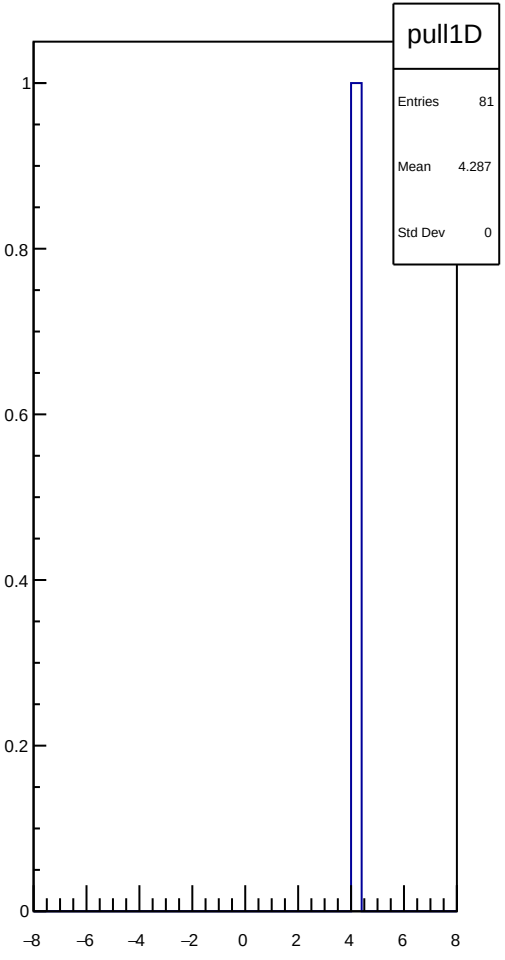

yield_bpm0i01Y_rms vs run
χ² / ndf 1.2e+05 / 80
p0 0.002039 ± 1.706e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

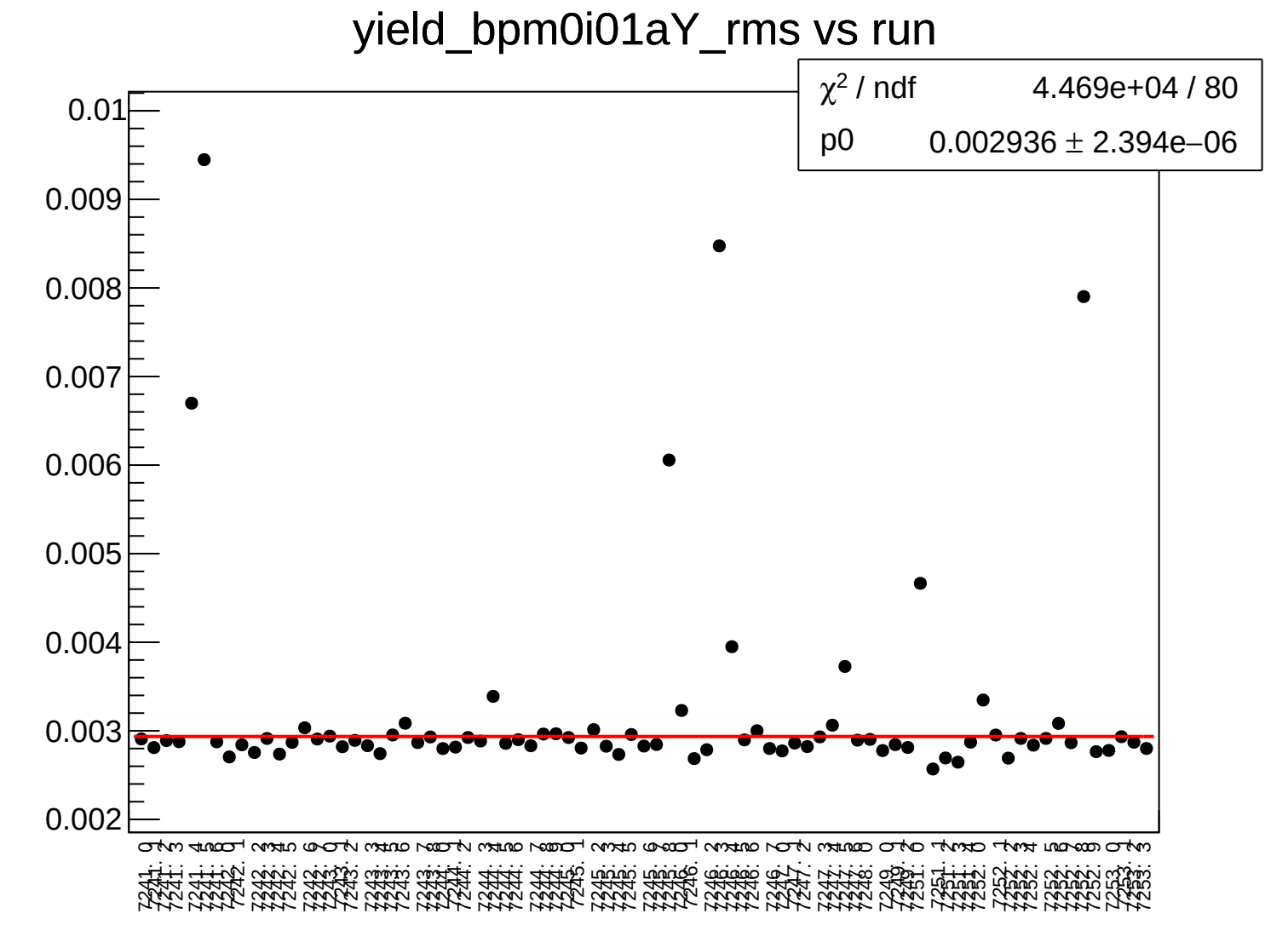

yield_bpm0i01aX_mean vs run
χ² / ndf 2.037e+07 / 80
p0 −1.91 ± 4.121e−06
−1.87
−1.88
−1.89
−1.9
−1.91
−1.92
−1.93
−1.94
pull
Entries 81
Mean −1221
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400
−600
−800

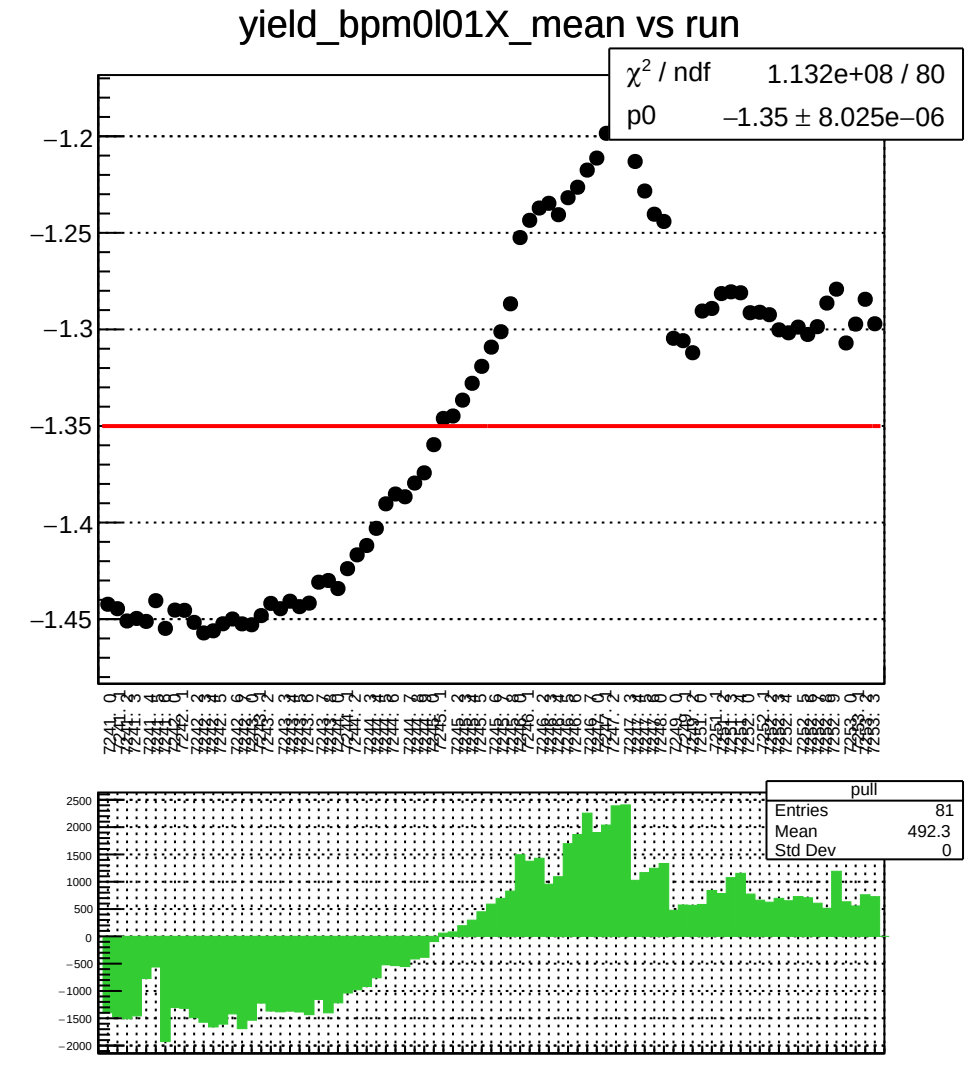

pull1D
Entries 81
Mean 1.059
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

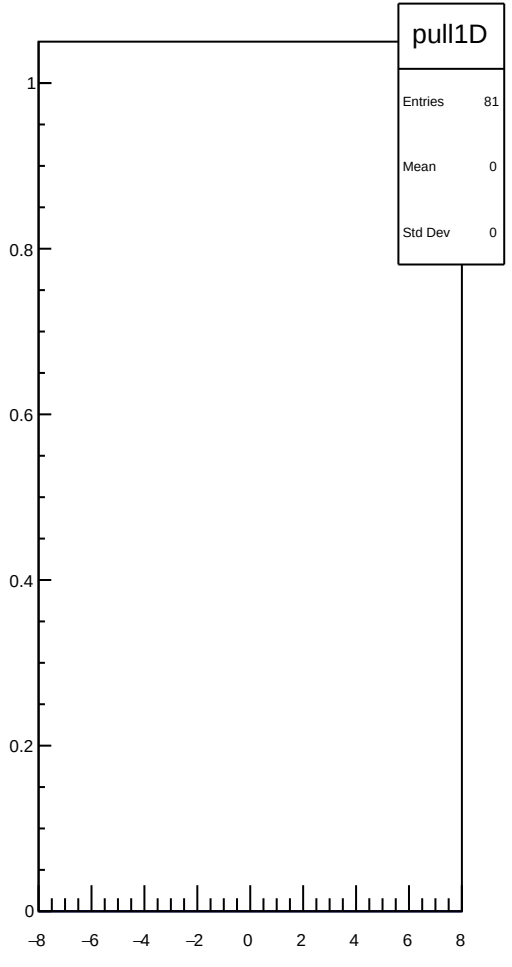

yield_bpm0i01aX_rms vs run
χ^2 / ndf 4.535e+04 / 80
p0 0.003573 ± 2.914e−06
0.012
0.01
0.008
0.006
0.004

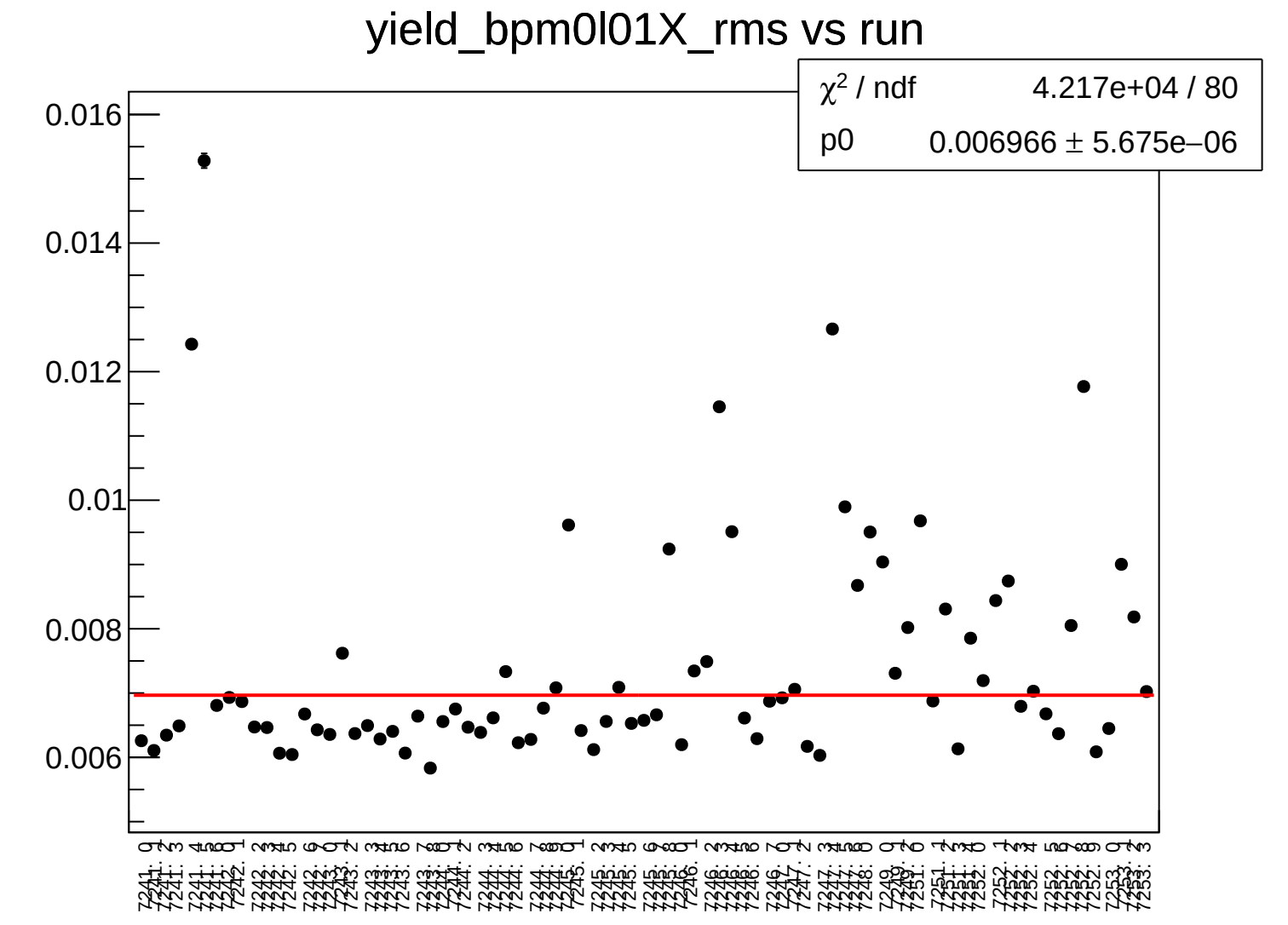

yield_bpm0i01aY_mean vs run
χ² / ndf 1.668e+07 / 80
p0 2.563 ± 3.385e−06
2.59
2.58
2.57
2.56
2.55
pull
Entries 81
Mean 5041
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400
−600

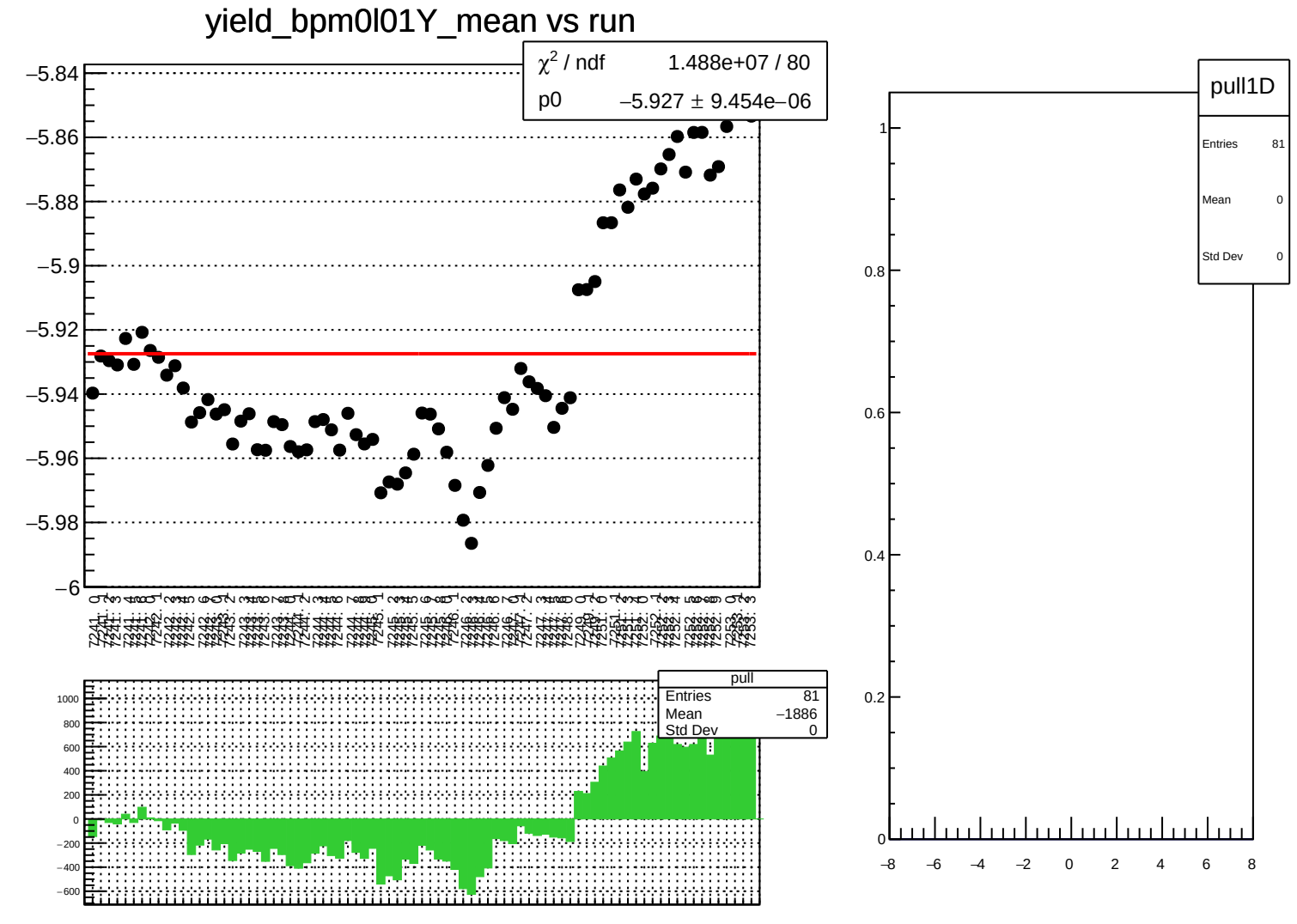

pull1D
Entries 81
Mean 4.287
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

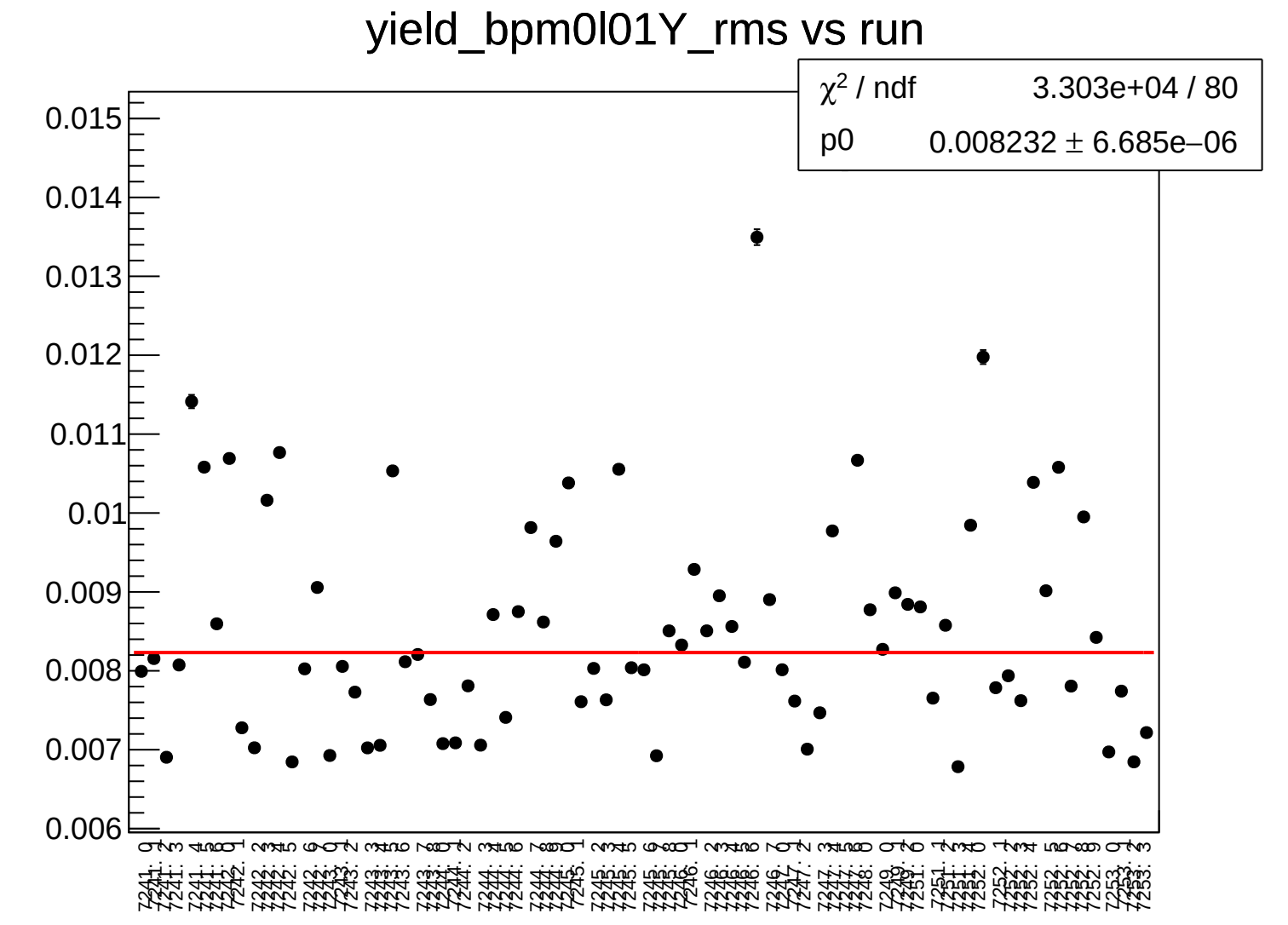

yield_bpm0i01aY_rms vs run
χ^2 / ndf 4.469e+04 / 80
p0 0.002936 ± 2.394e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

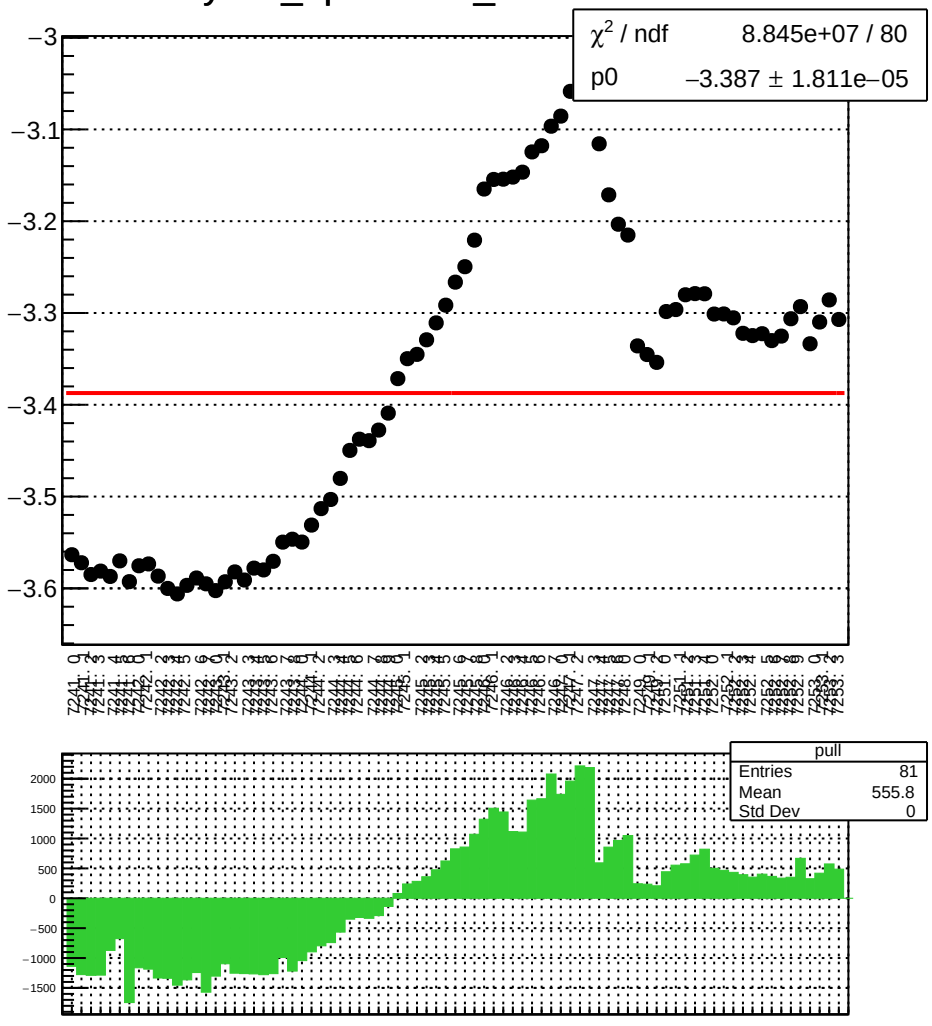

yield_bpm0l01X_mean vs run
χ² / ndf 1.132e+08 / 80
p0 −1.35 ± 8.025e−06
−1.2
−1.25
−1.3
−1.35
−1.4
−1.45
pull
Entries 81
Mean 492.3
Std Dev 0
2500
2000
1500
1000
500
0
−500
−1000
−1500
−2000

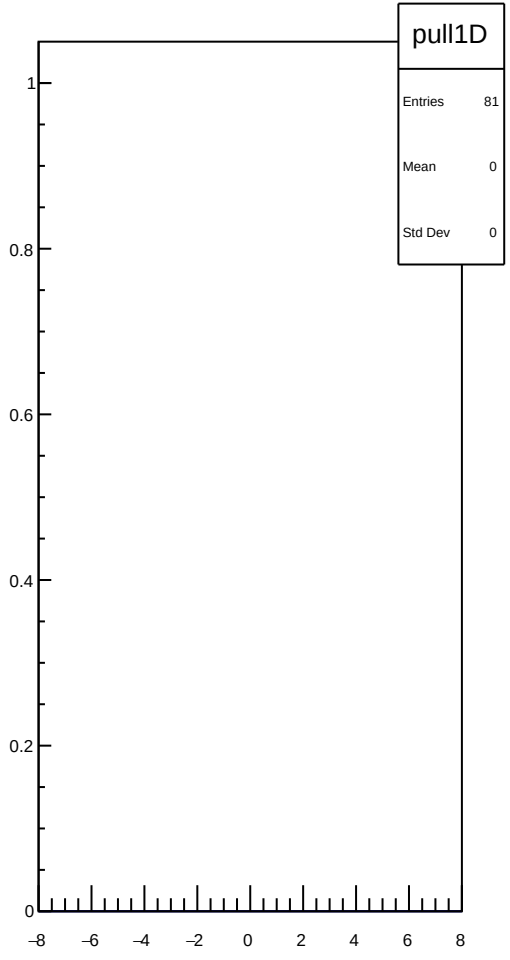

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

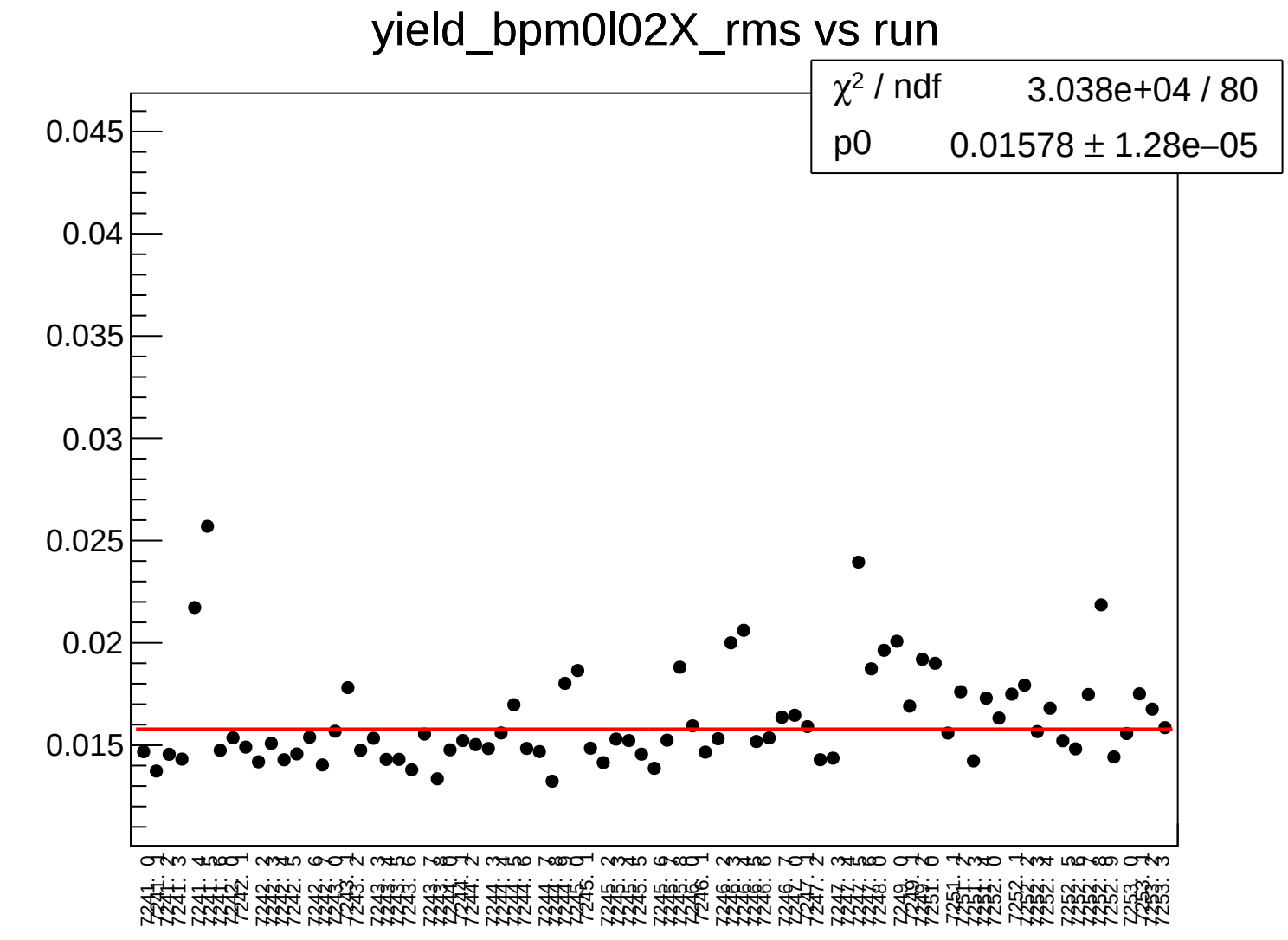

yield_bpm0l01X_rms vs run
χ^2 / ndf 4.217e+04 / 80
p0 0.006966 ± 5.675e−06
0.016
0.014
0.012
0.01
0.008
0.006

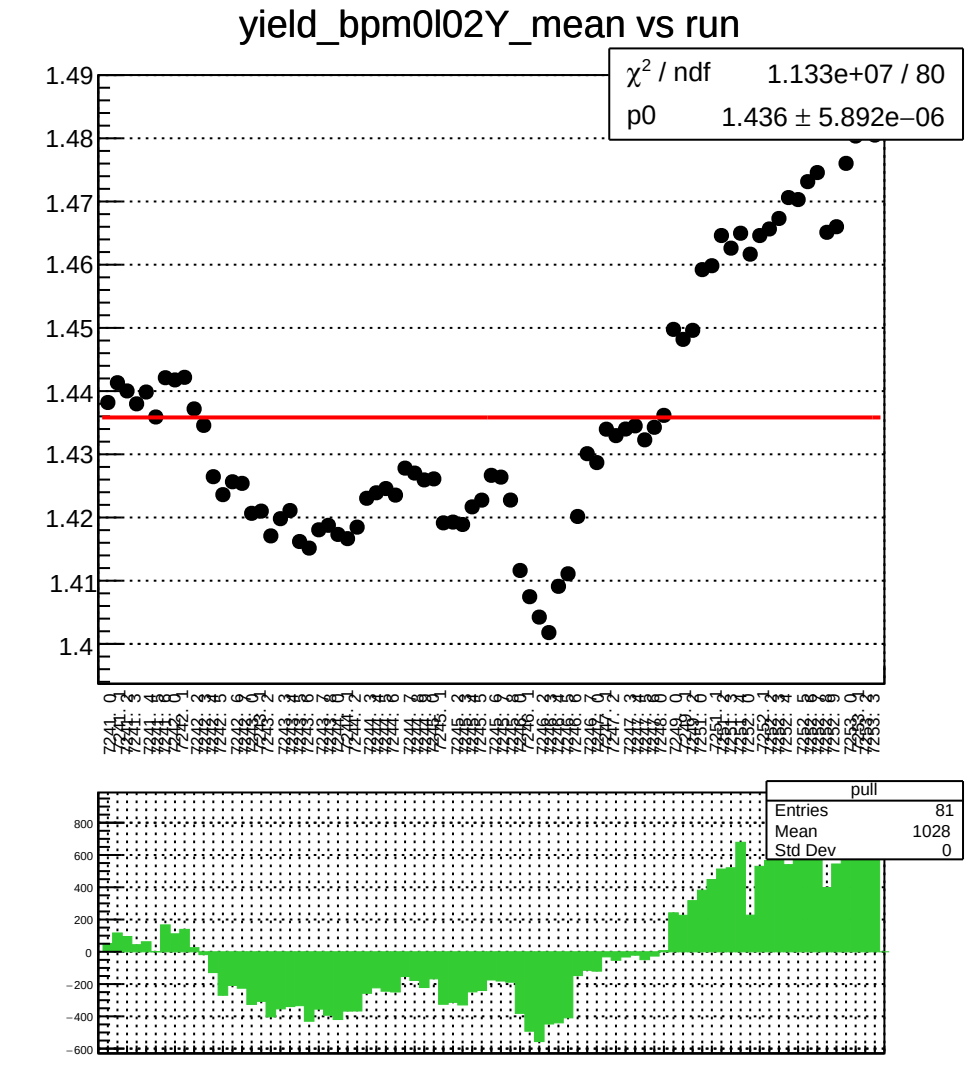

yield_bpm0l01Y_mean vs run
χ² / ndf 1.488e+07 / 80
p0 −5.927 ± 9.454e−06
−5.84
−5.86
−5.88
−5.9
−5.92
−5.94
−5.96
−5.98
−6
pull
Entries 81
Mean −1886
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600
pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

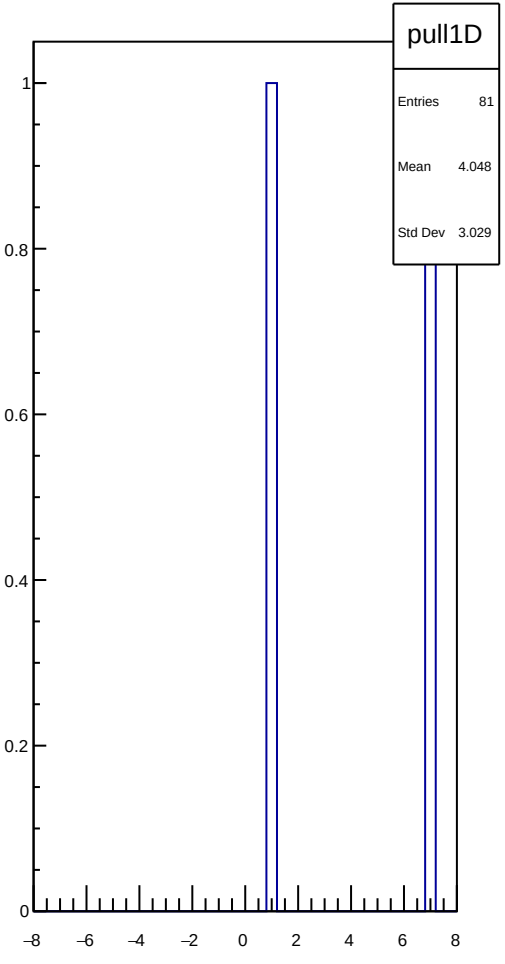

yield_bpm0l01Y_rms vs run
χ² / ndf 3.303e+04 / 80
p0 0.008232 ± 6.685e−06
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006


yield_bpm0l02X_mean vs run
χ² / ndf 8.845e+07 / 80
p0 −3.387 ± 1.811e−05
−3
−3.1
−3.2
−3.3
−3.4
−3.5
−3.6
pull
Entries 81
Mean 555.8
Std Dev 0
2000
1500
1000
500
0
−500
−1000
−1500

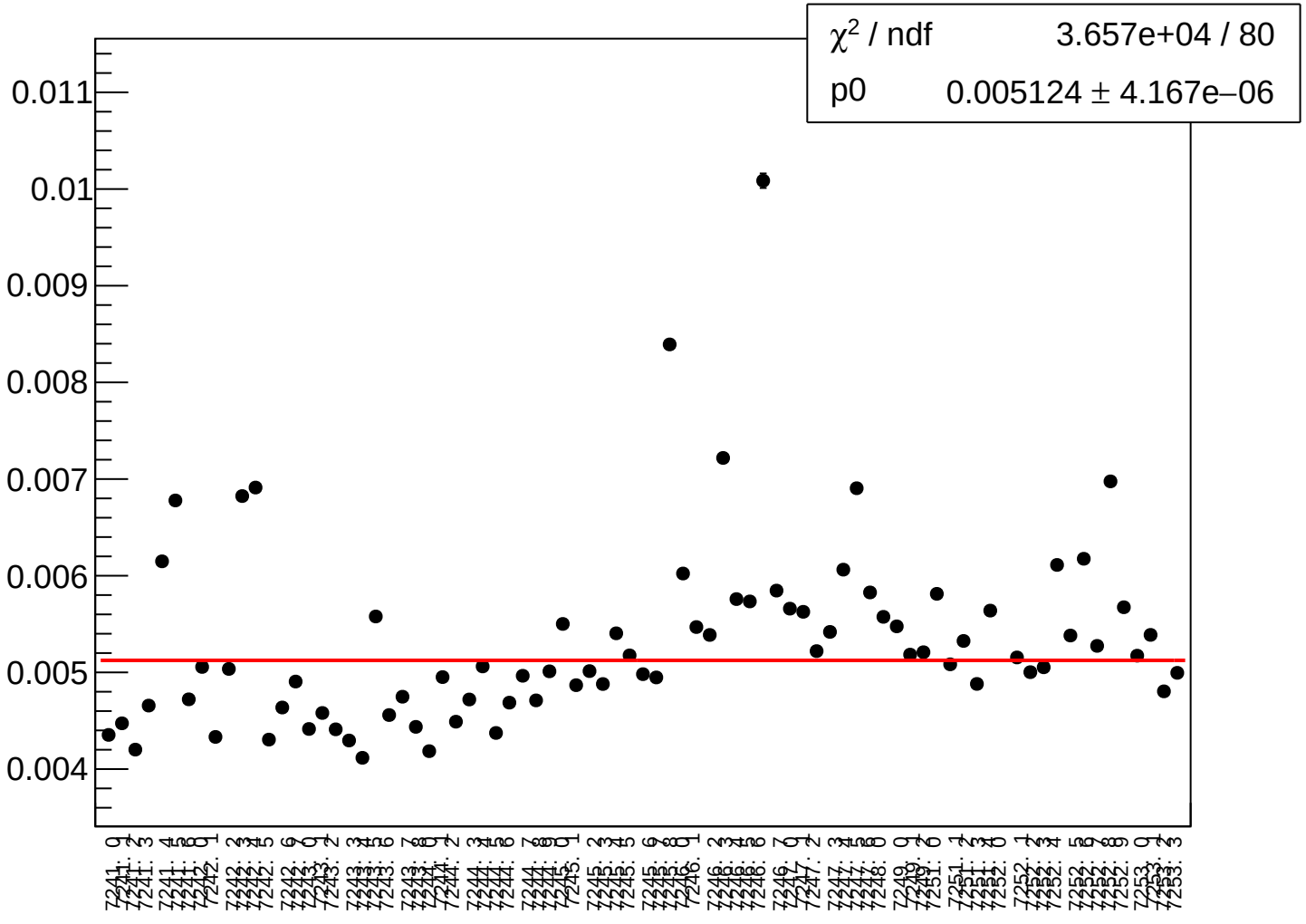

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

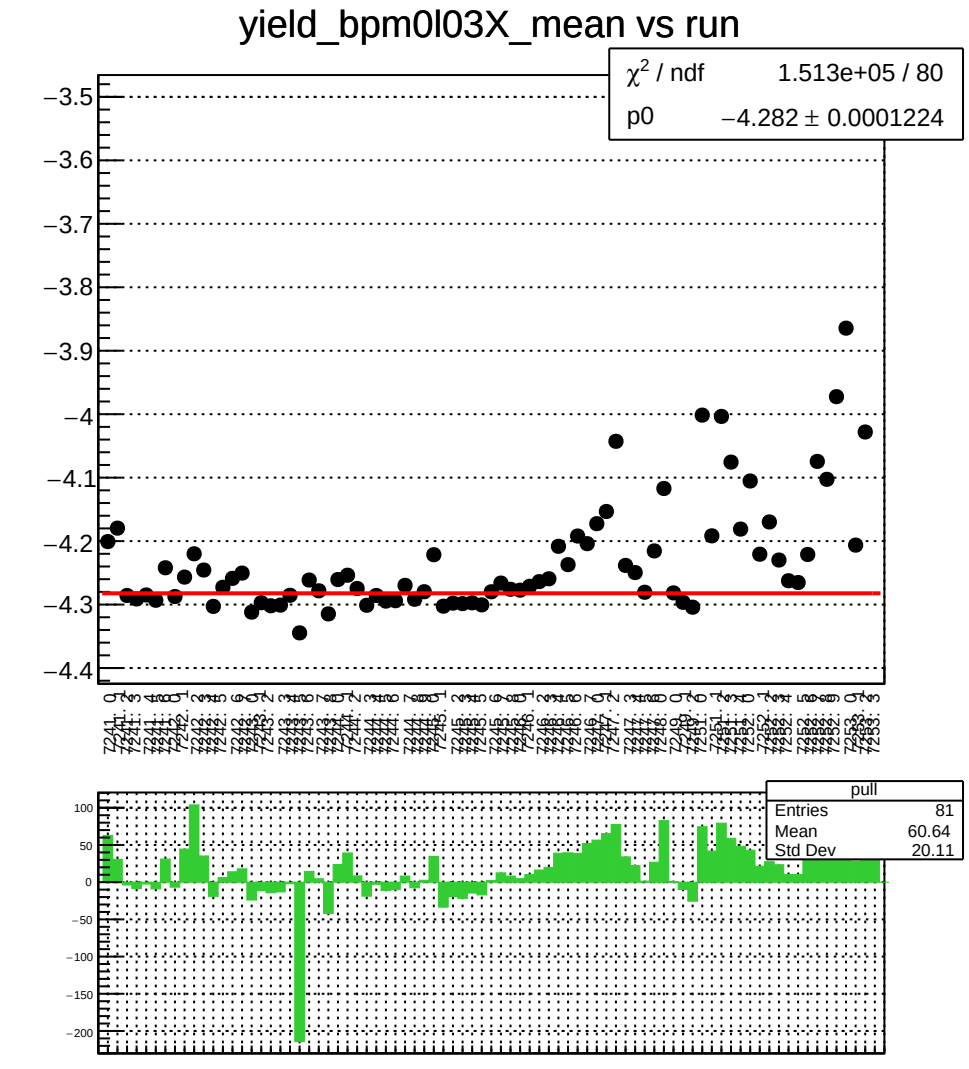

yield_bpm0l02X_rms vs run
χ² / ndf 3.038e+04 / 80
p0 0.01578 ± 1.28e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

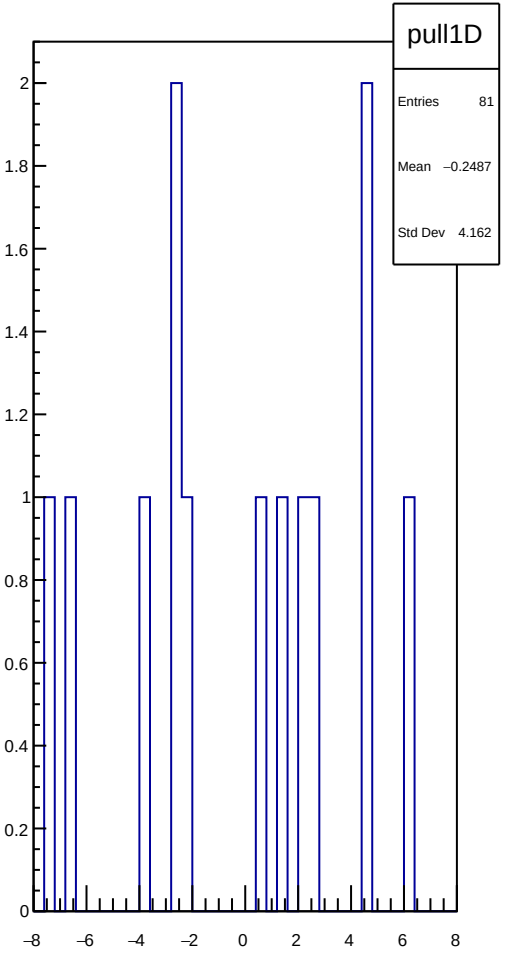

yield_bpm0l02Y_mean vs run
χ² / ndf 1.133e+07 / 80
p0 1.436 ± 5.892e−06
pull
Entries 81
Mean 1028
Std Dev 0

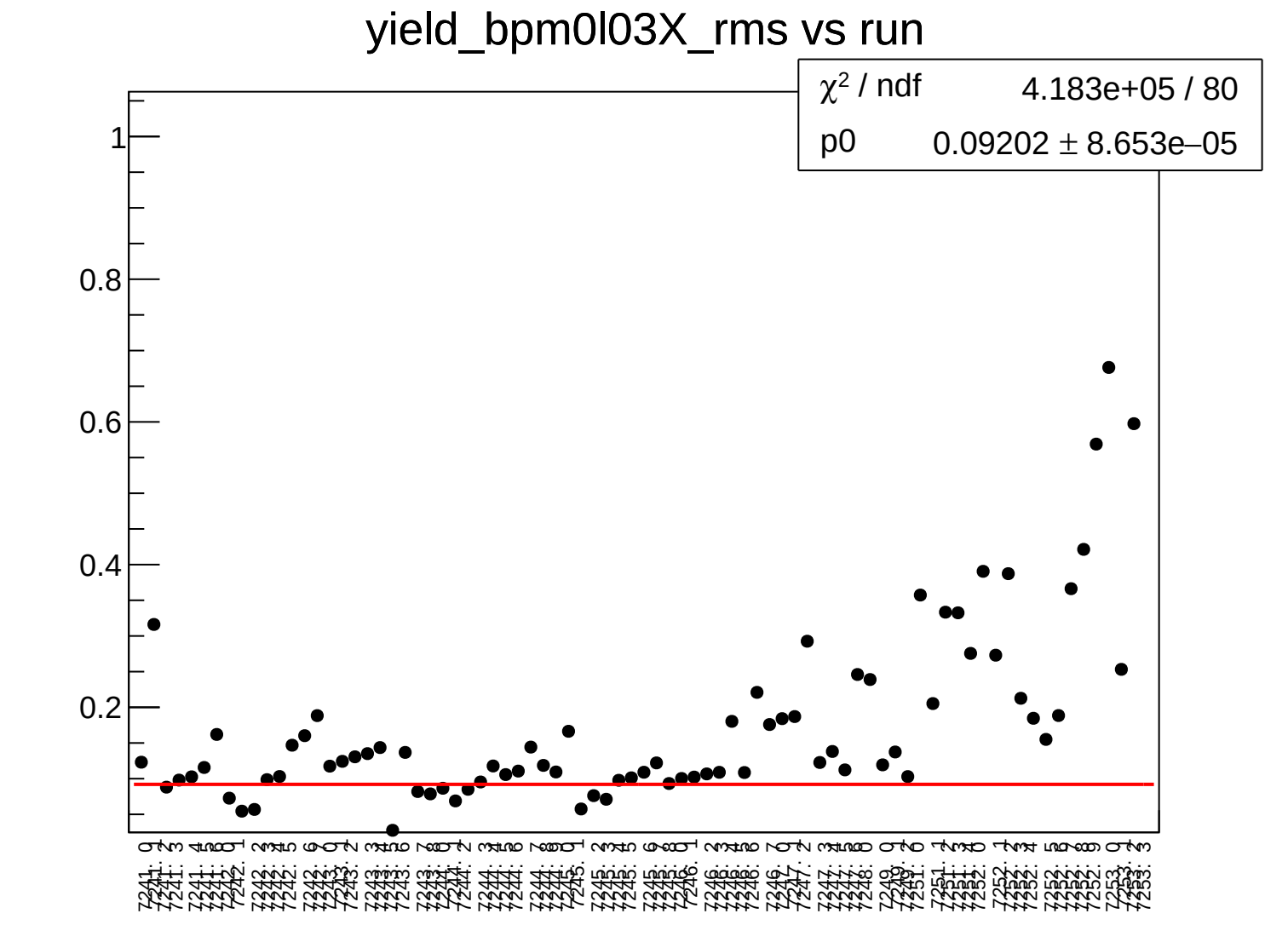

pull1D
Entries 81
Mean 4.048
Std Dev 3.029

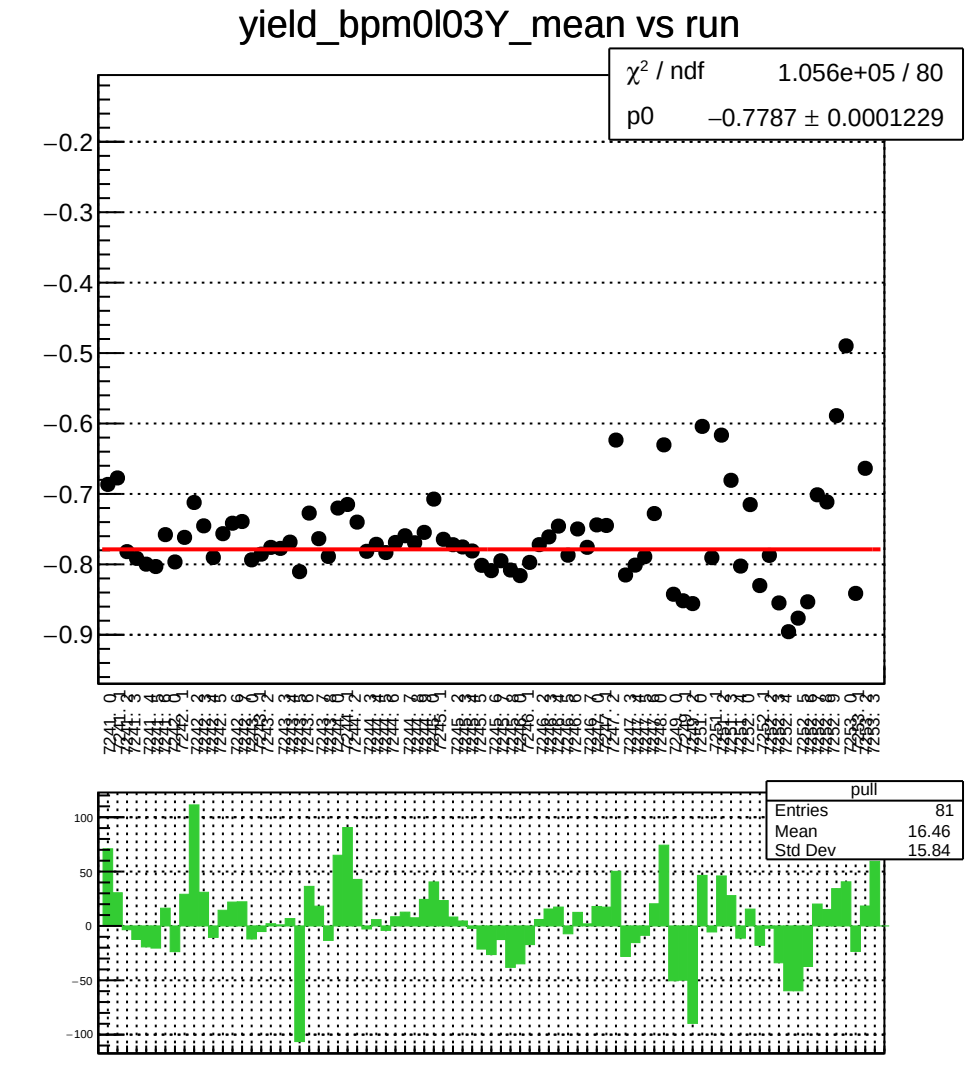
yield_bpm0l02Y_rms vs run

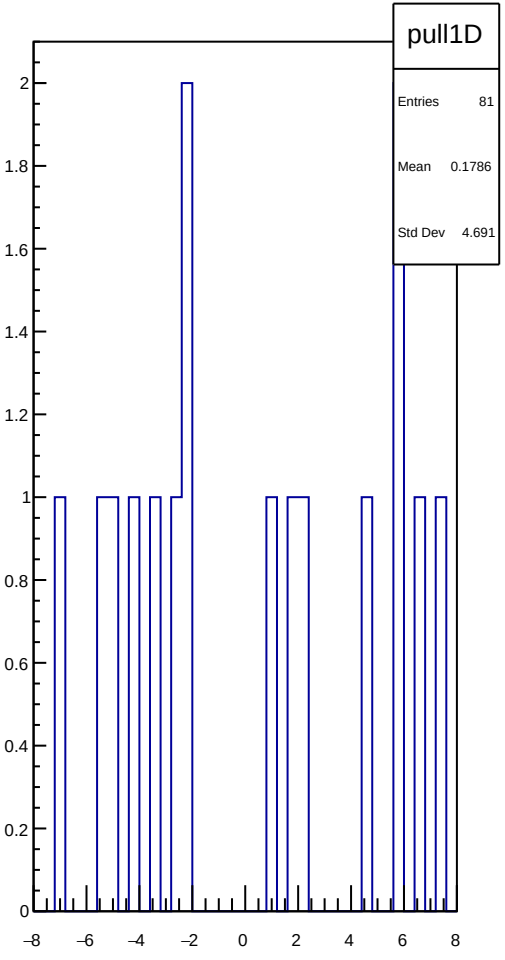


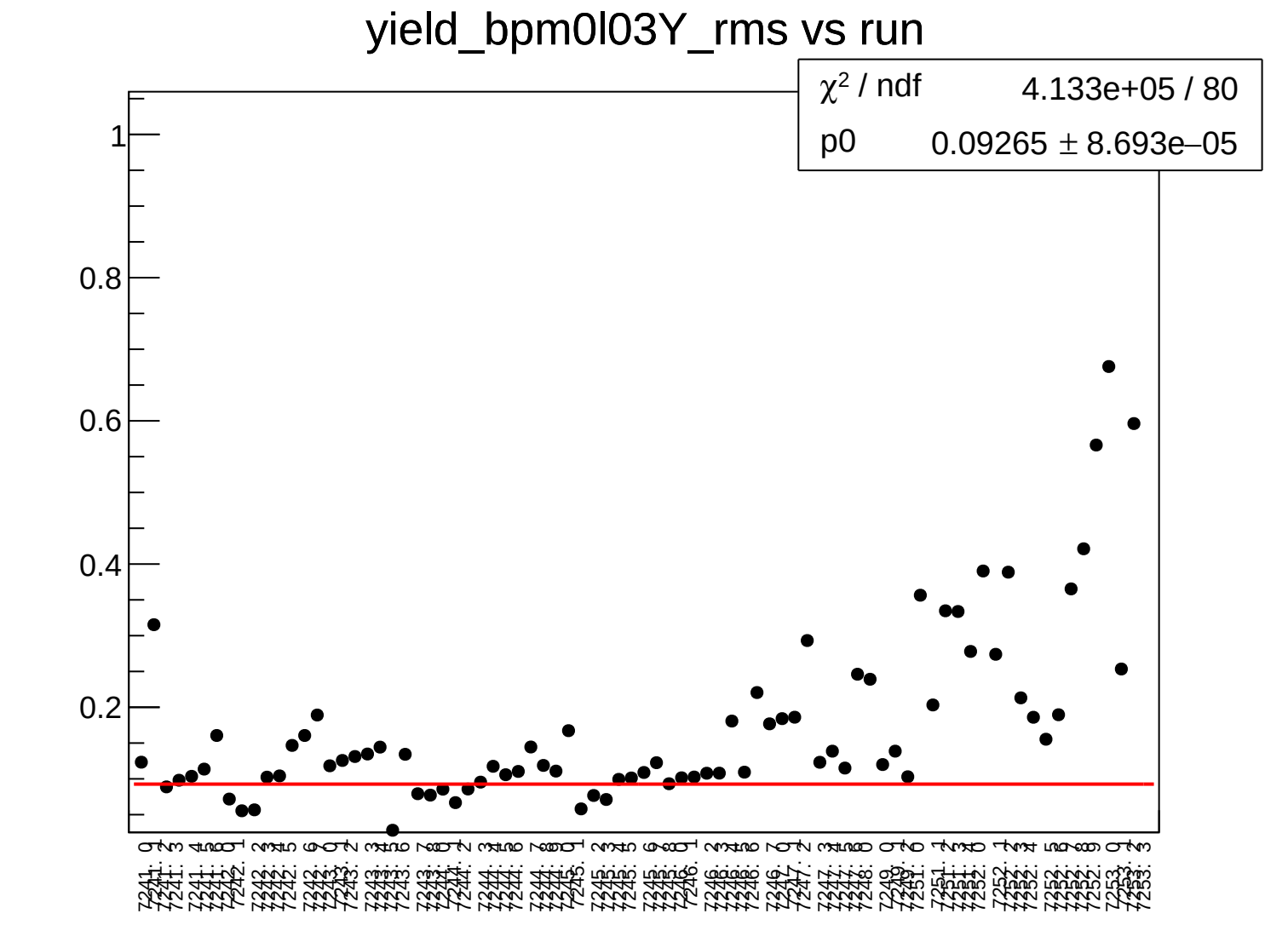

yield_bpm0l03X_mean vs run
χ² / ndf 1.513e+05 / 80
p0 −4.282 ± 0.0001224
pull
Entries 81
Mean 60.64
Std Dev 20.11

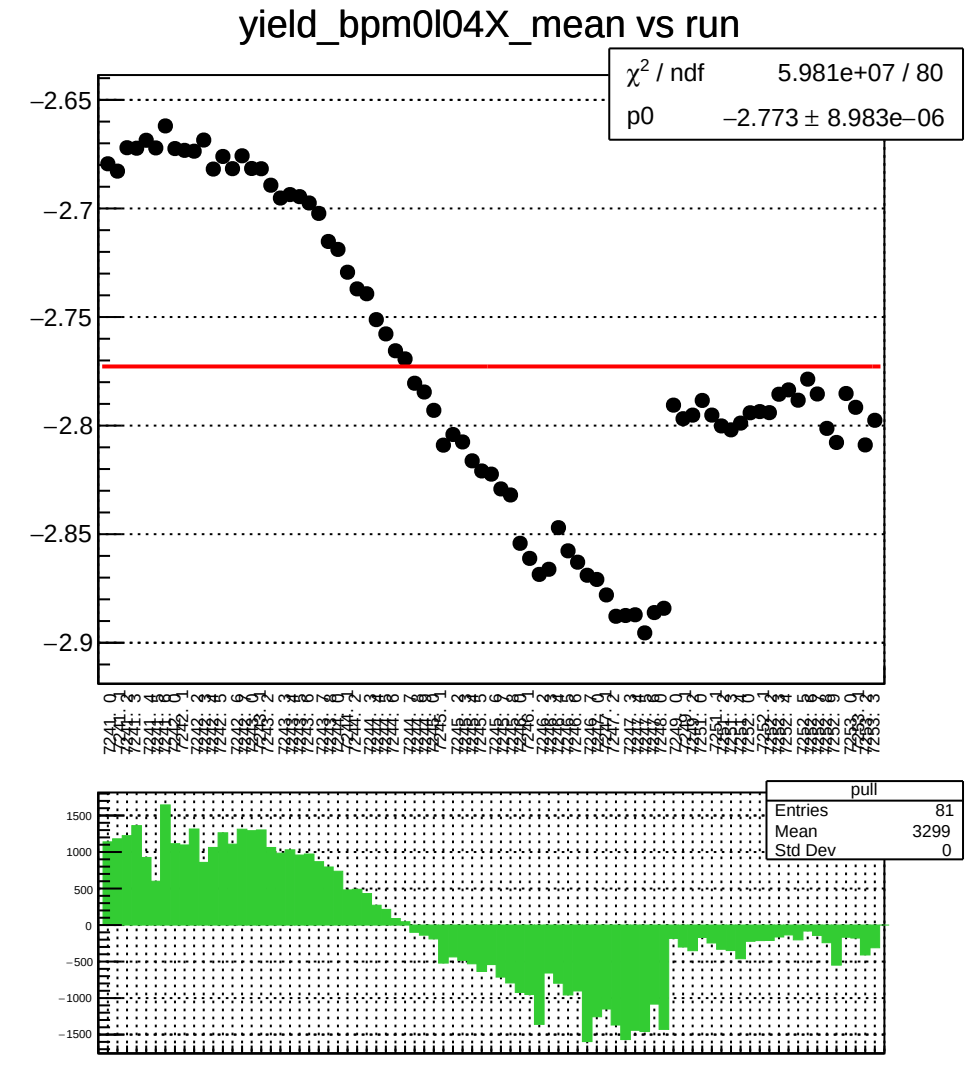

pull1D
Entries 81
Mean −0.2487
Std Dev 4.162

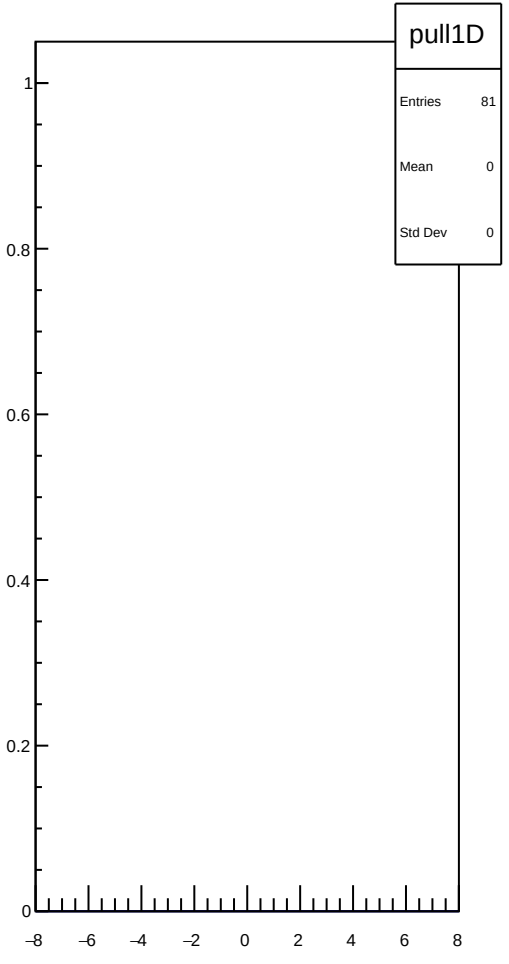

yield_bpm0l03X_rms vs run
χ² / ndf 4.183e+05 / 80
p0 0.09202 ± 8.653e–05
1
0.8
0.6
0.4
0.2

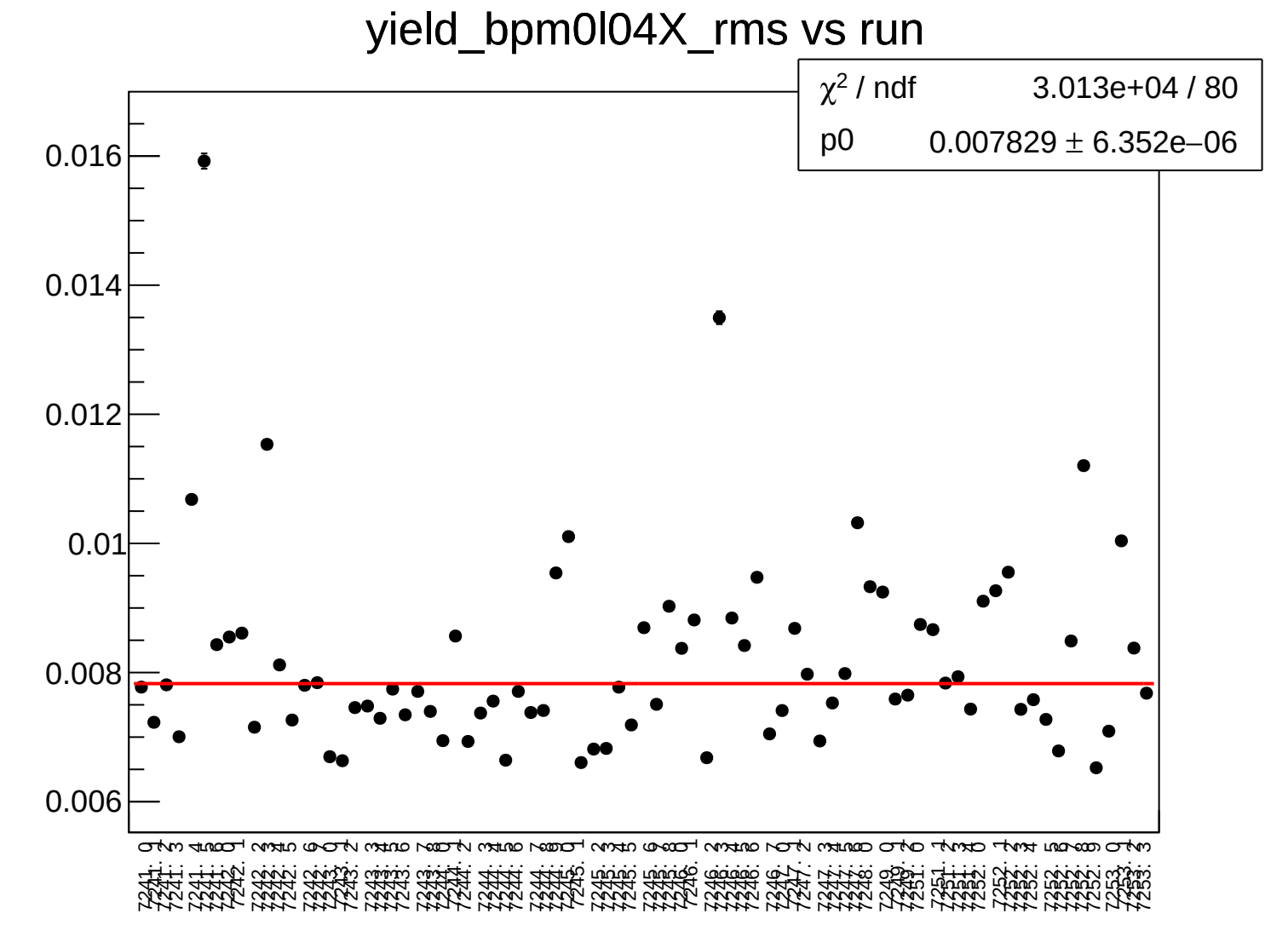

yield_bpm0l03Y_mean vs run
χ² / ndf 1.056e+05 / 80
p0 −0.7787 ± 0.0001229
pull
Entries 81
Mean 16.46
Std Dev 15.84

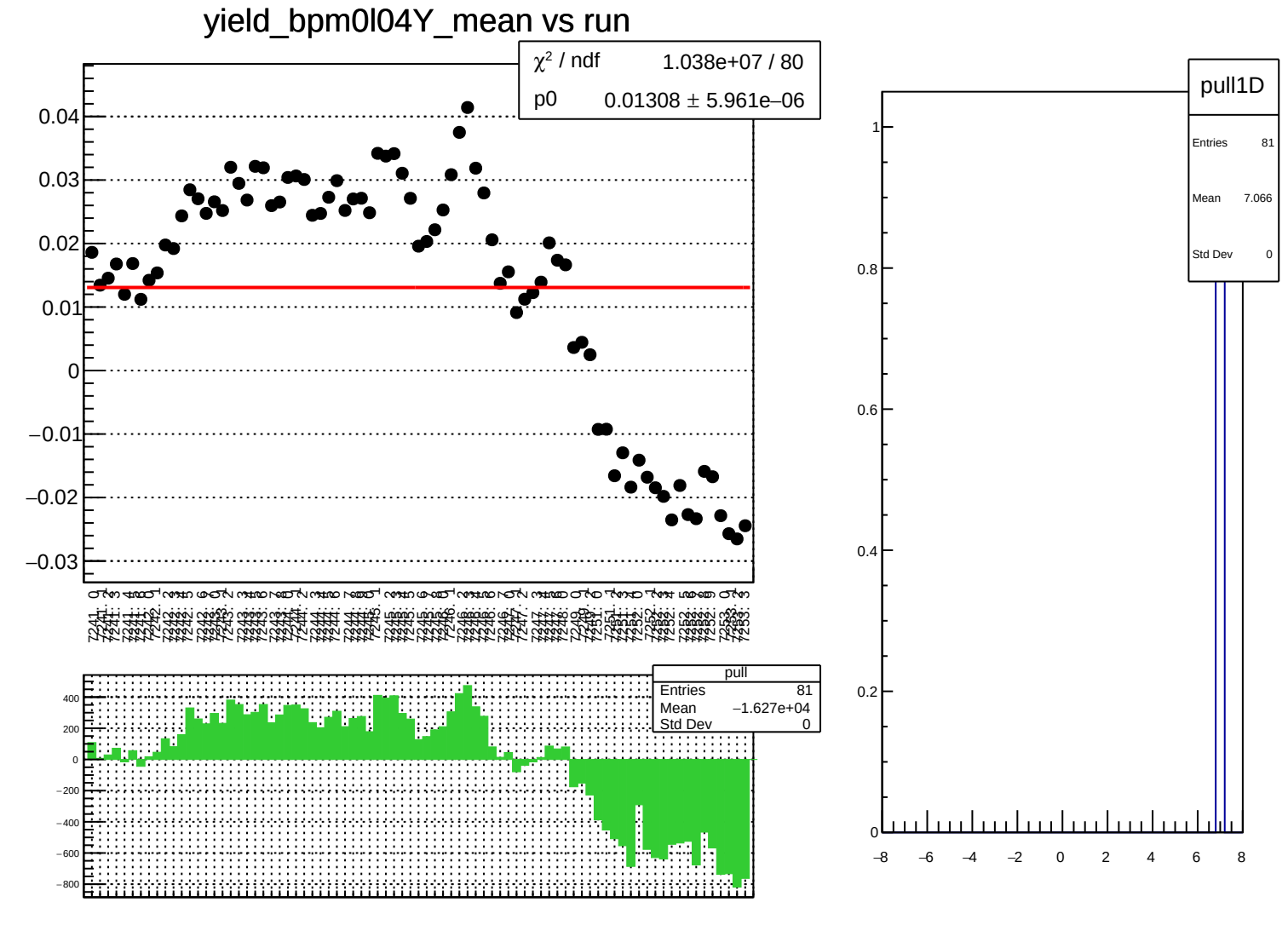

pull1D
Entries 81
Mean 0.1786
Std Dev 4.691

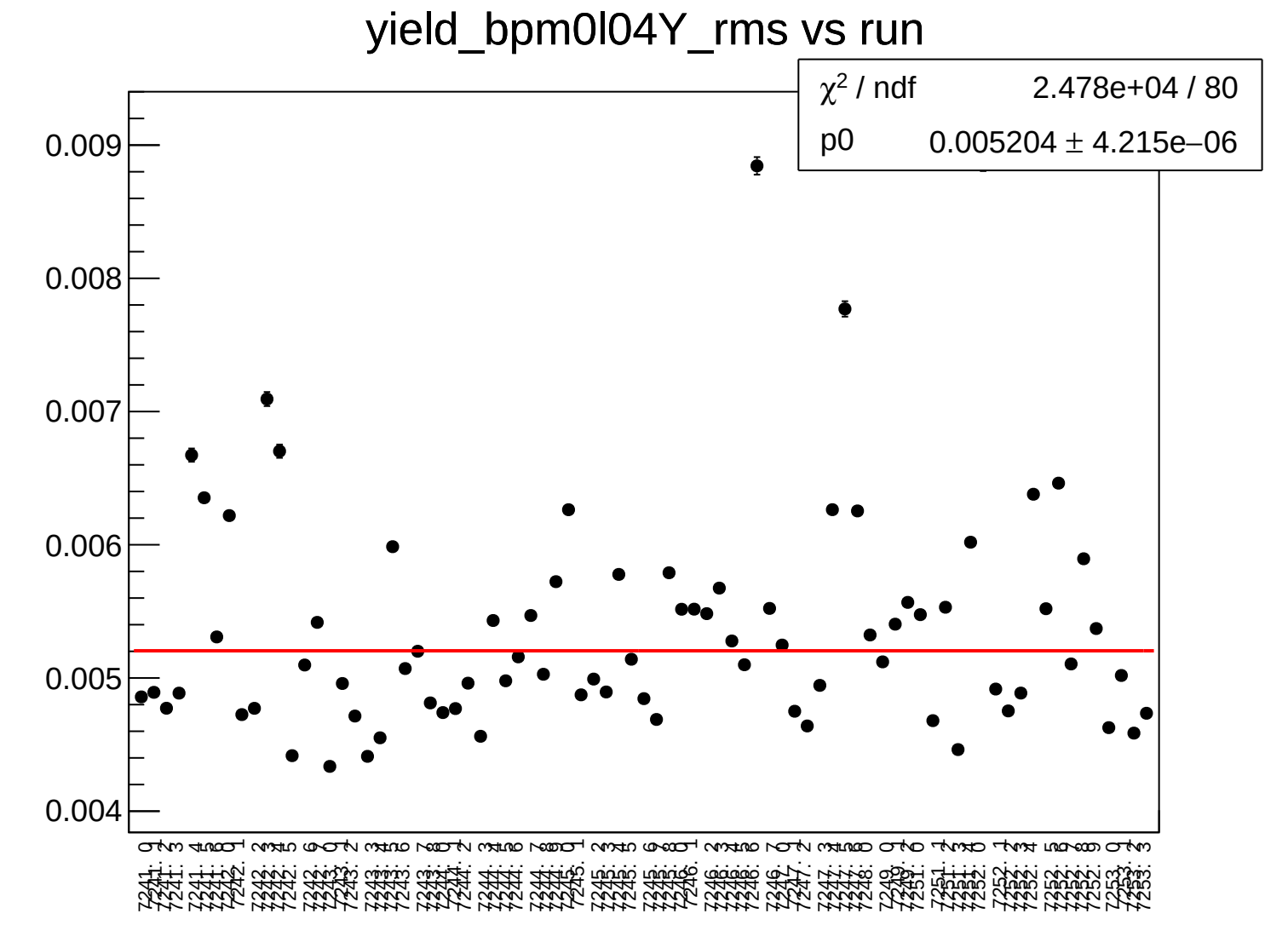

yield_bpm0l03Y_rms vs run
χ² / ndf 4.133e+05 / 80
p0 0.09265 ± 8.693e–05
1
0.8
0.6
0.4
0.2

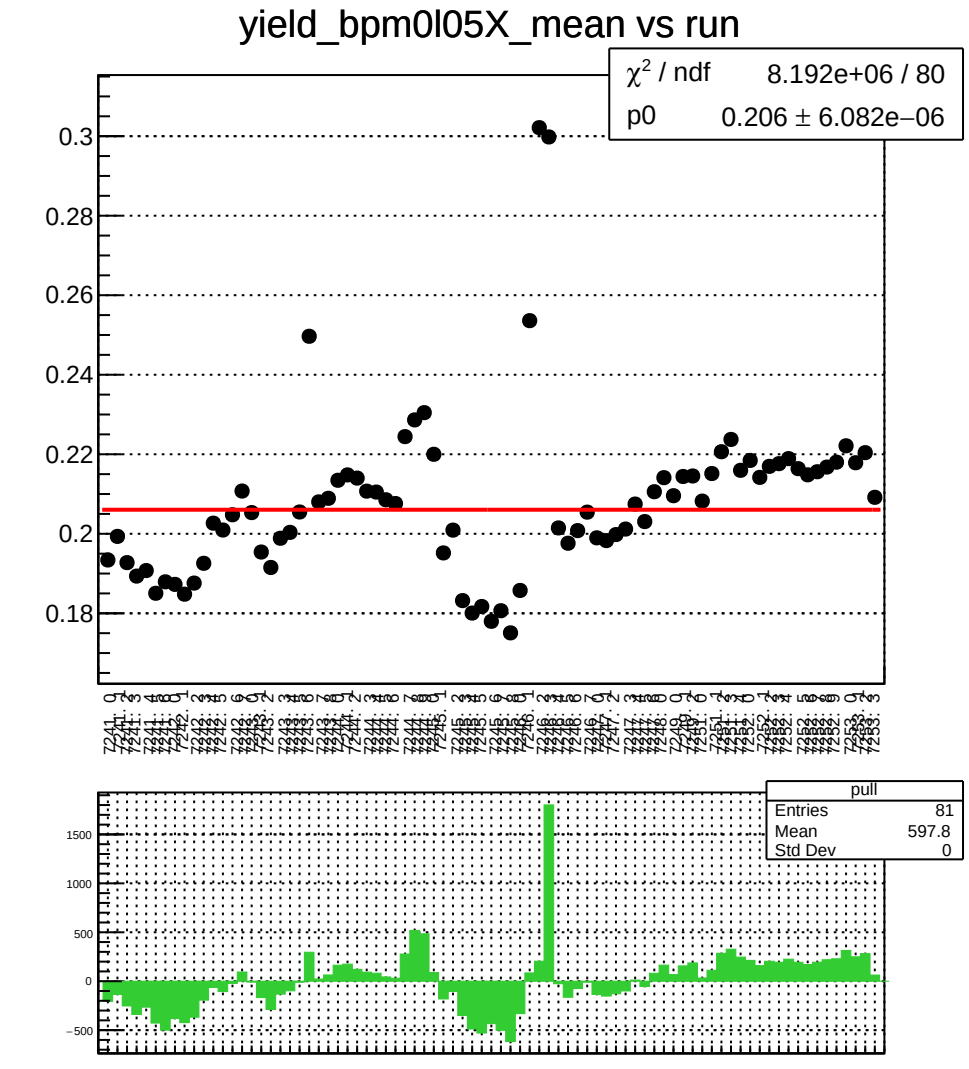

yield_bpm0l04X_mean vs run
χ² / ndf 5.981e+07 / 80
p0 −2.773 ± 8.983e−06
−2.65
−2.7
−2.75
−2.8
−2.85
−2.9
pull
Entries 81
Mean 3299
Std Dev 0
1500
1000
500
0
−500
−1000
−1500

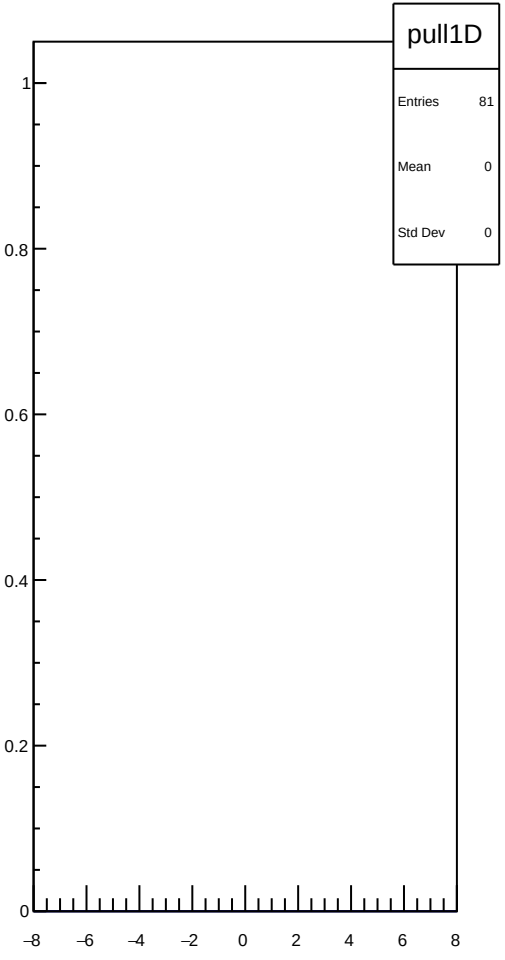

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

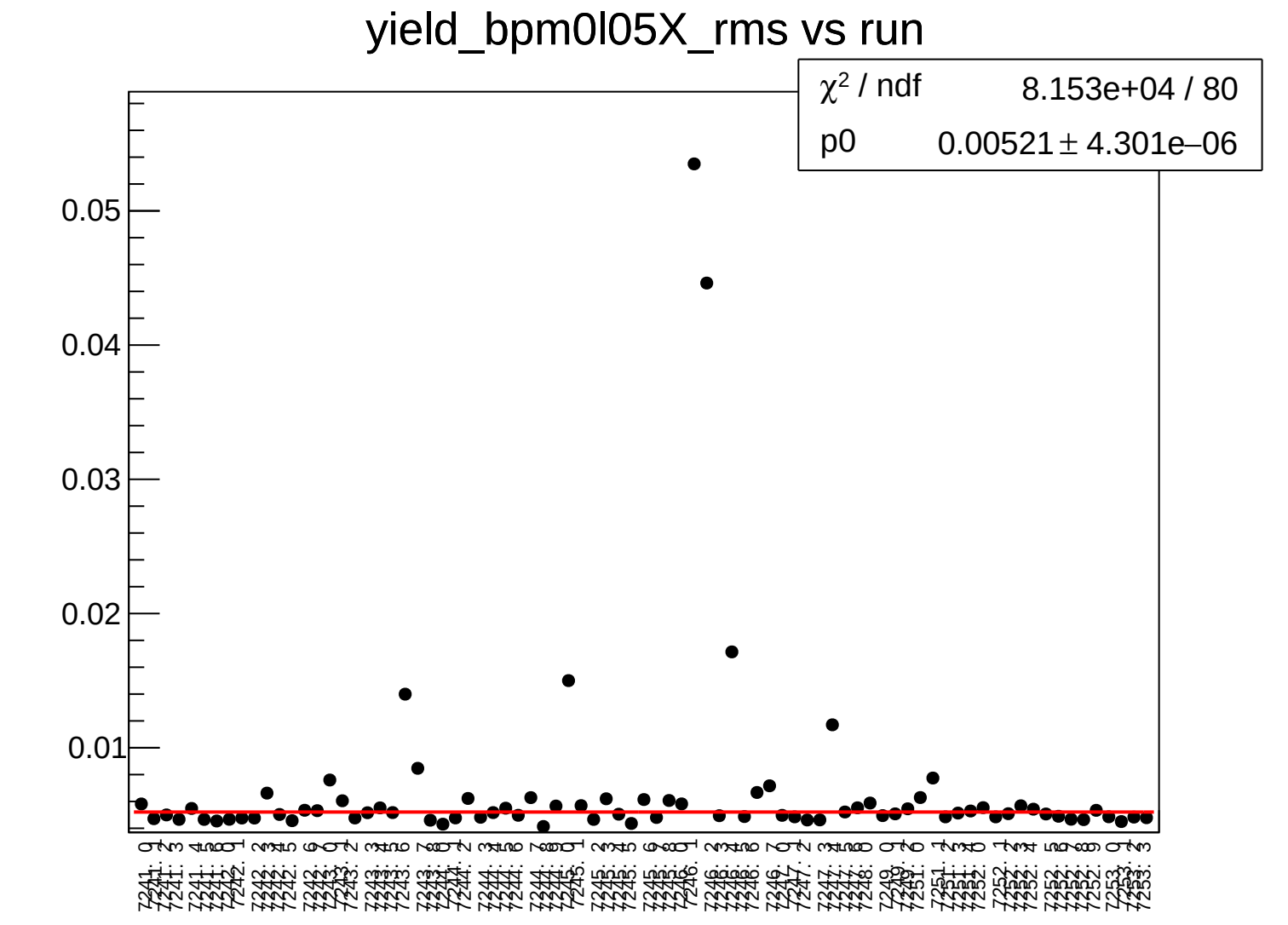

yield_bpm0l04X_rms vs run
χ² / ndf 3.013e+04 / 80
p0 0.007829 ± 6.352e−06
0.016
0.014
0.012
0.01
0.008
0.006

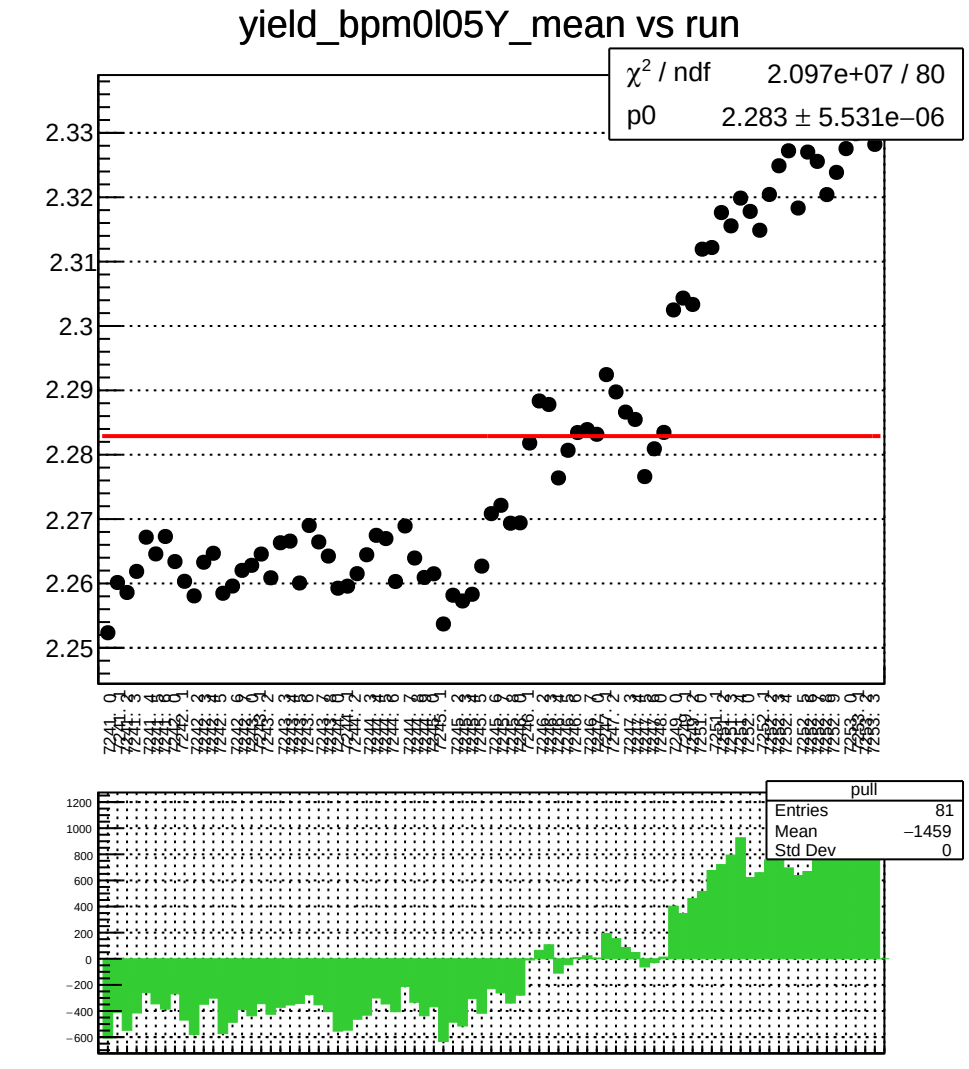

yield_bpm0l04Y_mean vs run
χ² / ndf 1.038e+07 / 80
p0 0.01308 ± 5.961e−06
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 81
Mean −1.627e+04
Std Dev 0
400
200
0
−200
−400
−600
−800
pull1D
Entries 81
Mean 7.066
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

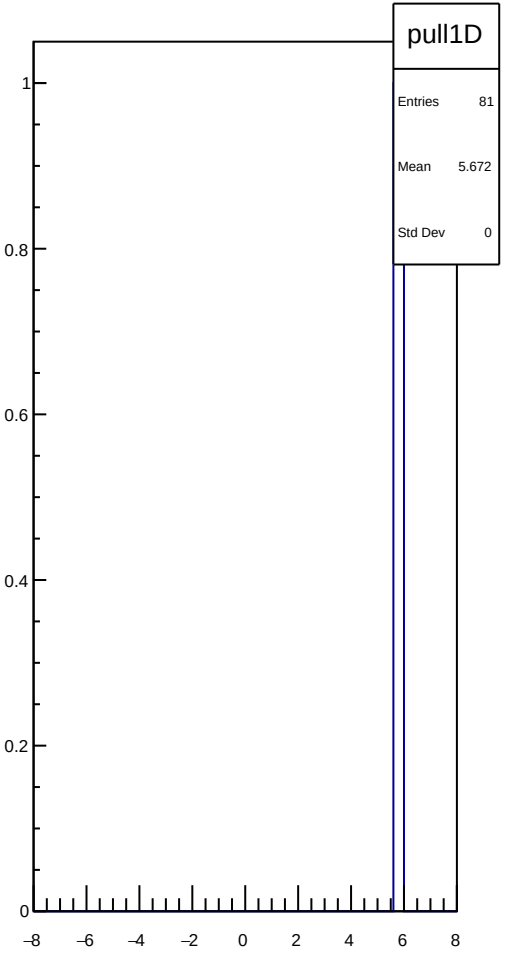

yield_bpm0l04Y_rms vs run
χ² / ndf 2.478e+04 / 80
p0 0.005204 ± 4.215e−06
0.009
0.008
0.007
0.006
0.005
0.004

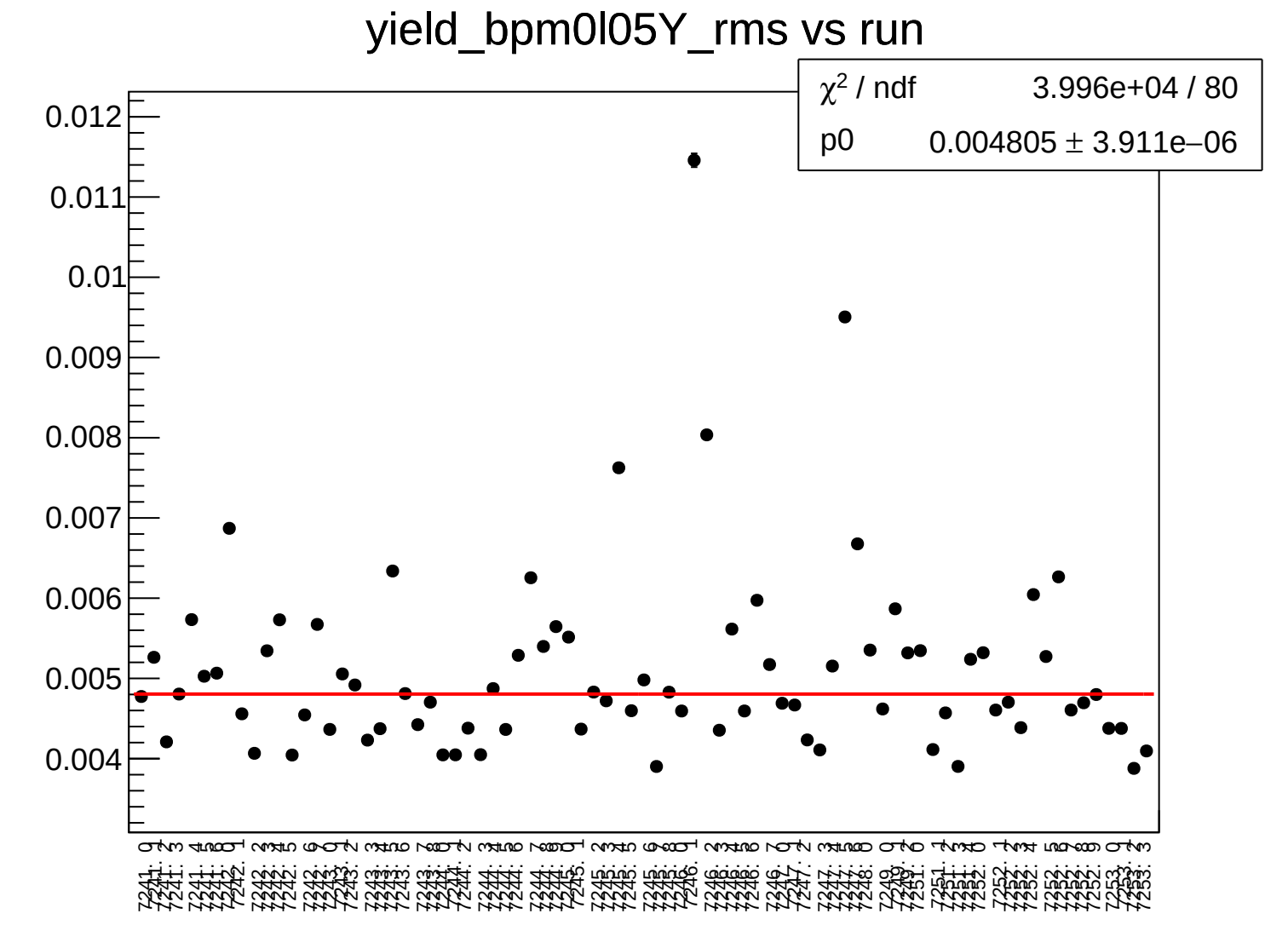

yield_bpm0l05X_mean vs run
χ² / ndf 8.192e+06 / 80
p0 0.206 ± 6.082e−06
0.3
0.28
0.26
0.24
0.22
0.2
0.18
pull
Entries 81
Mean 597.8
Std Dev 0
1500
1000
500
0
−500

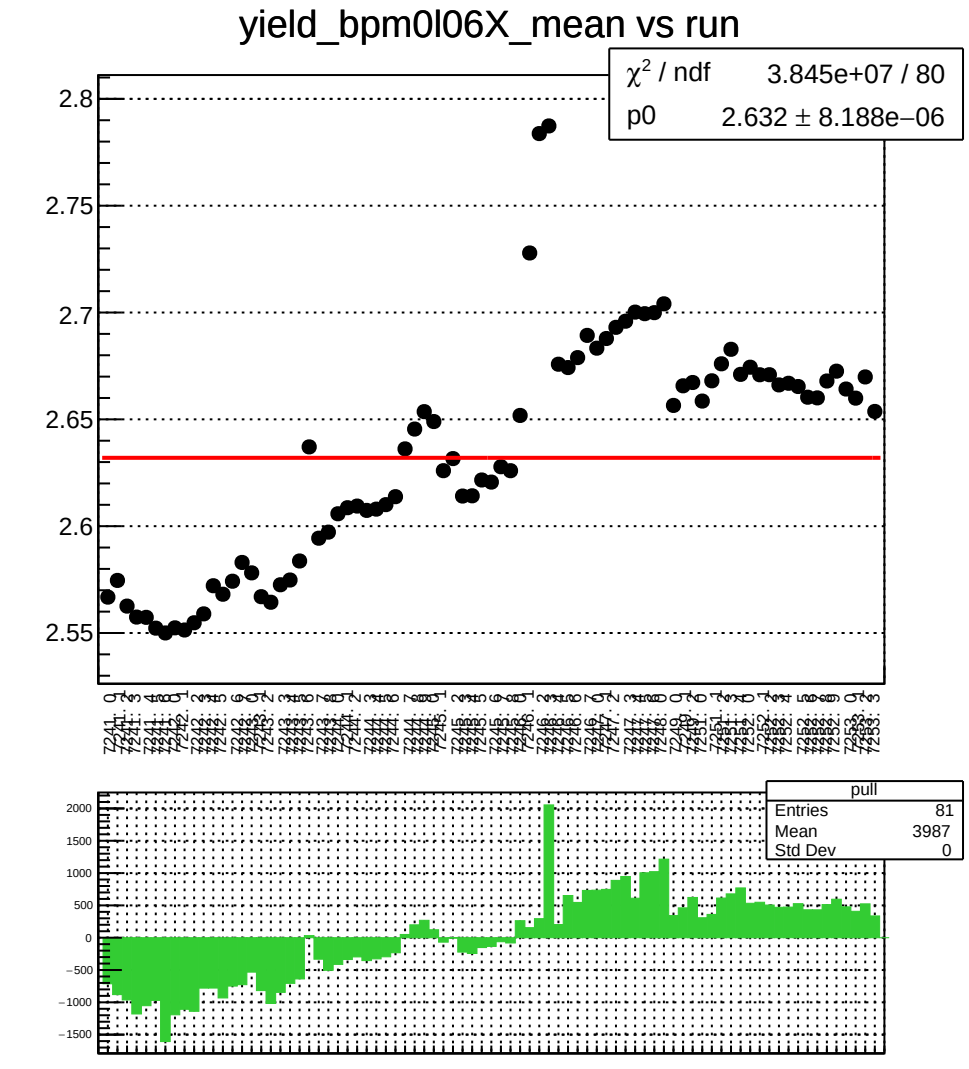

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

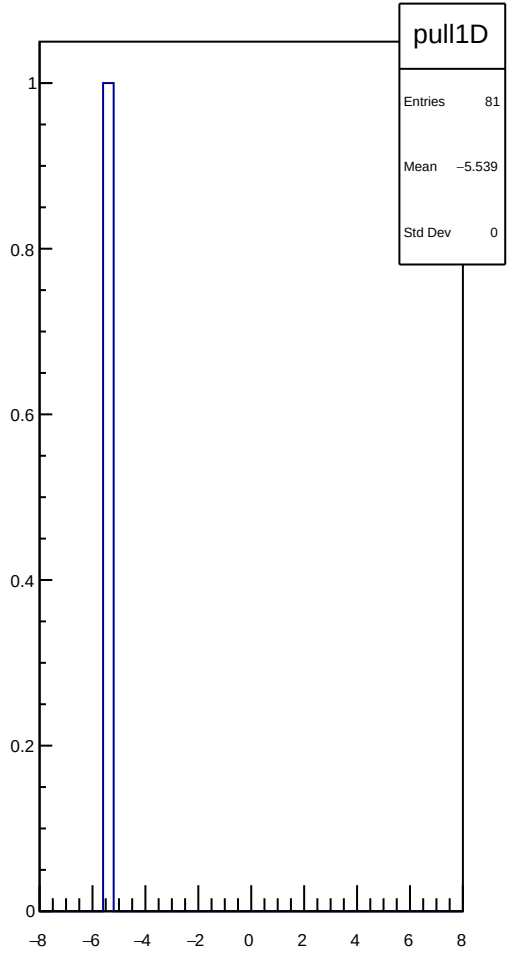

yield_bpm0l05X_rms vs run
χ² / ndf 8.153e+04 / 80
p0 0.00521 ± 4.301e–06
0.05
0.04
0.03
0.02
0.01

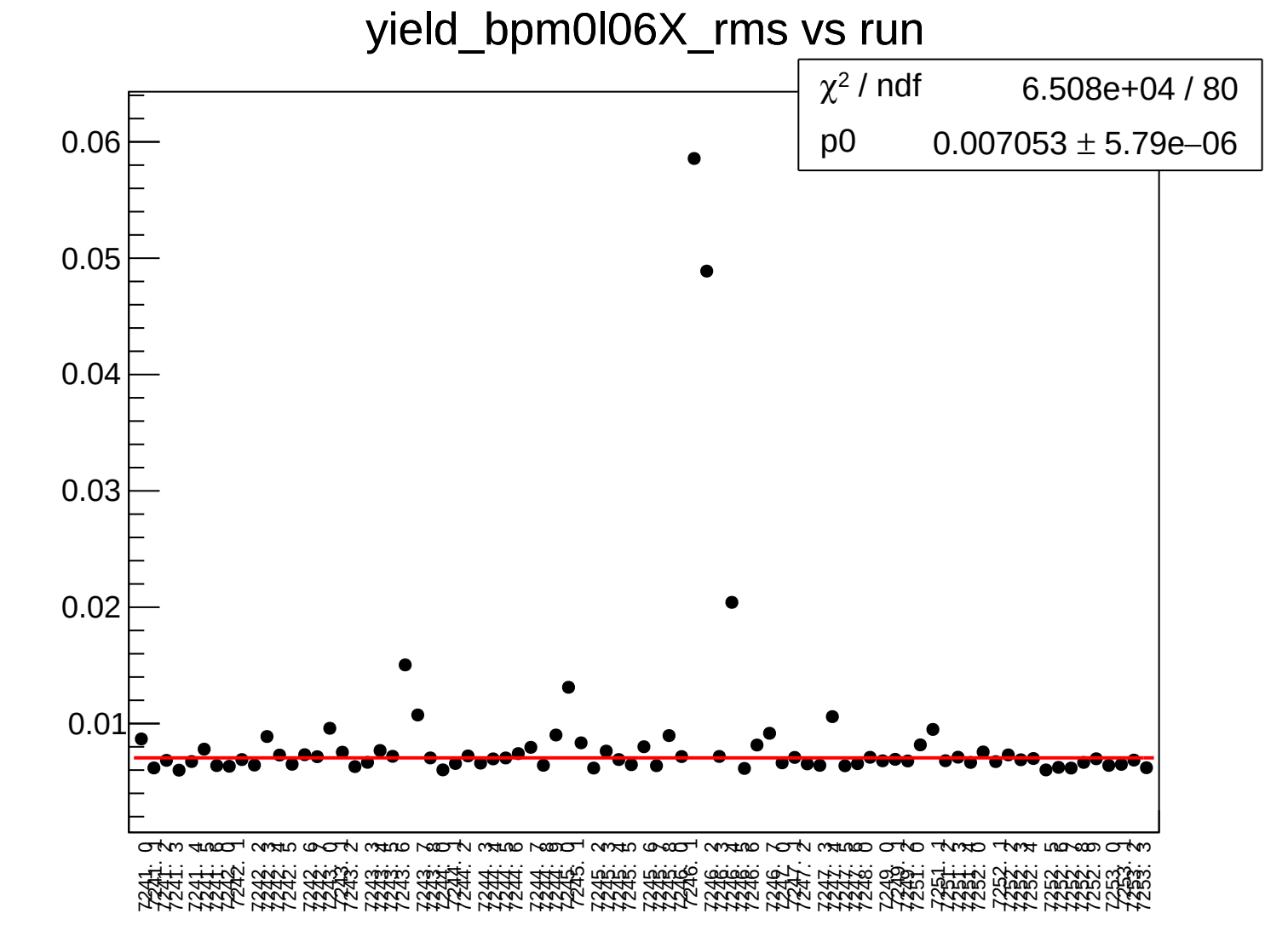

yield_bpm0l05Y_mean vs run
χ² / ndf 2.097e+07 / 80
p0 2.283 ± 5.531e−06
2.33
2.32
2.31
2.3
2.29
2.28
2.27
2.26
2.25
pull
Entries 81
Mean −1459
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400
−600

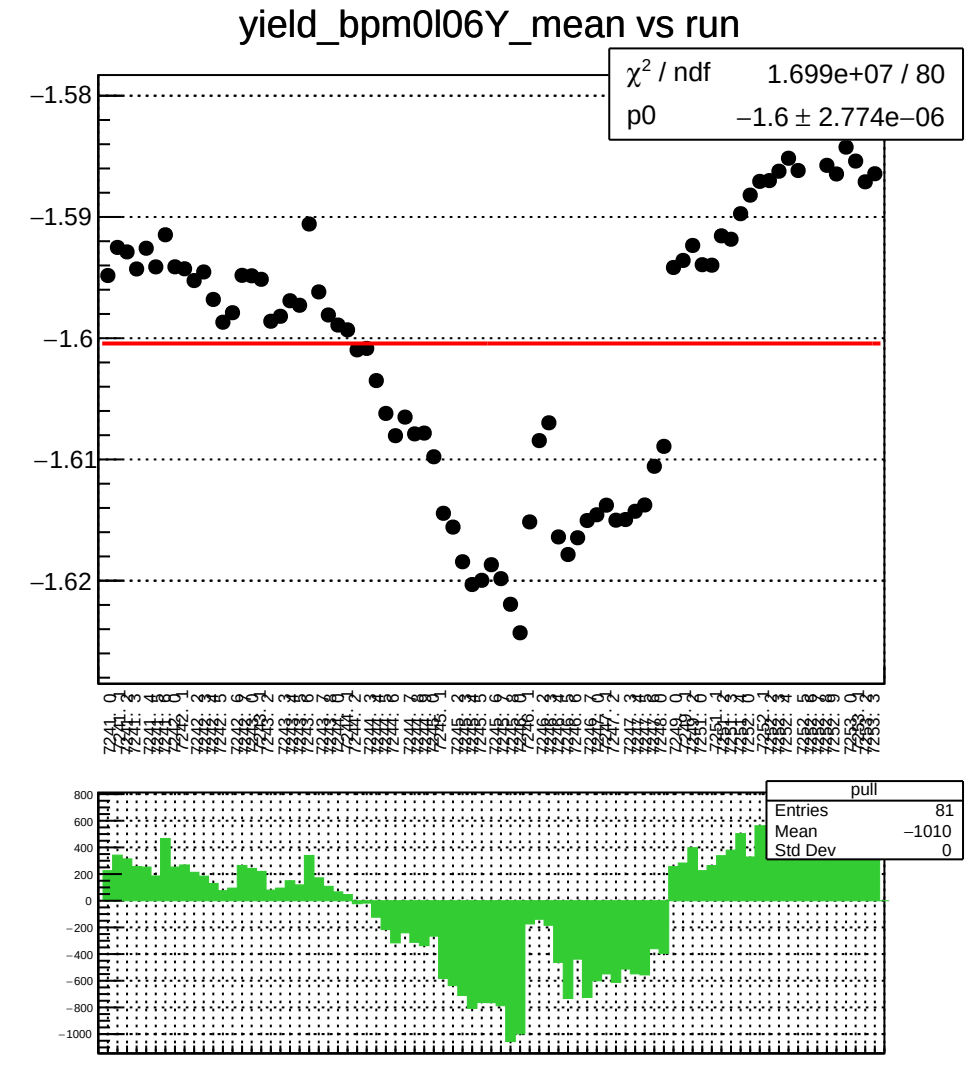

pull1D
Entries 81
Mean 5.672
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

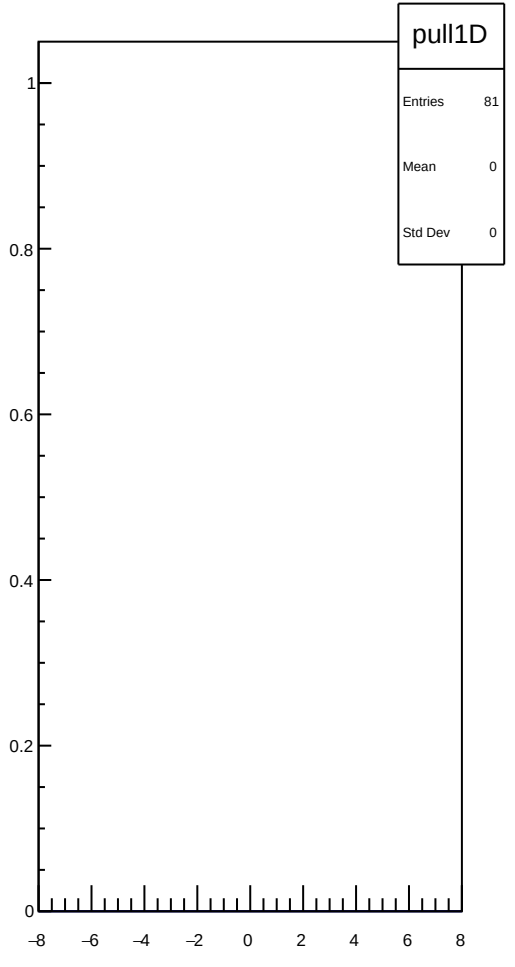

yield_bpm0l05Y_rms vs run
χ² / ndf 3.996e+04 / 80
p0 0.004805 ± 3.911e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004

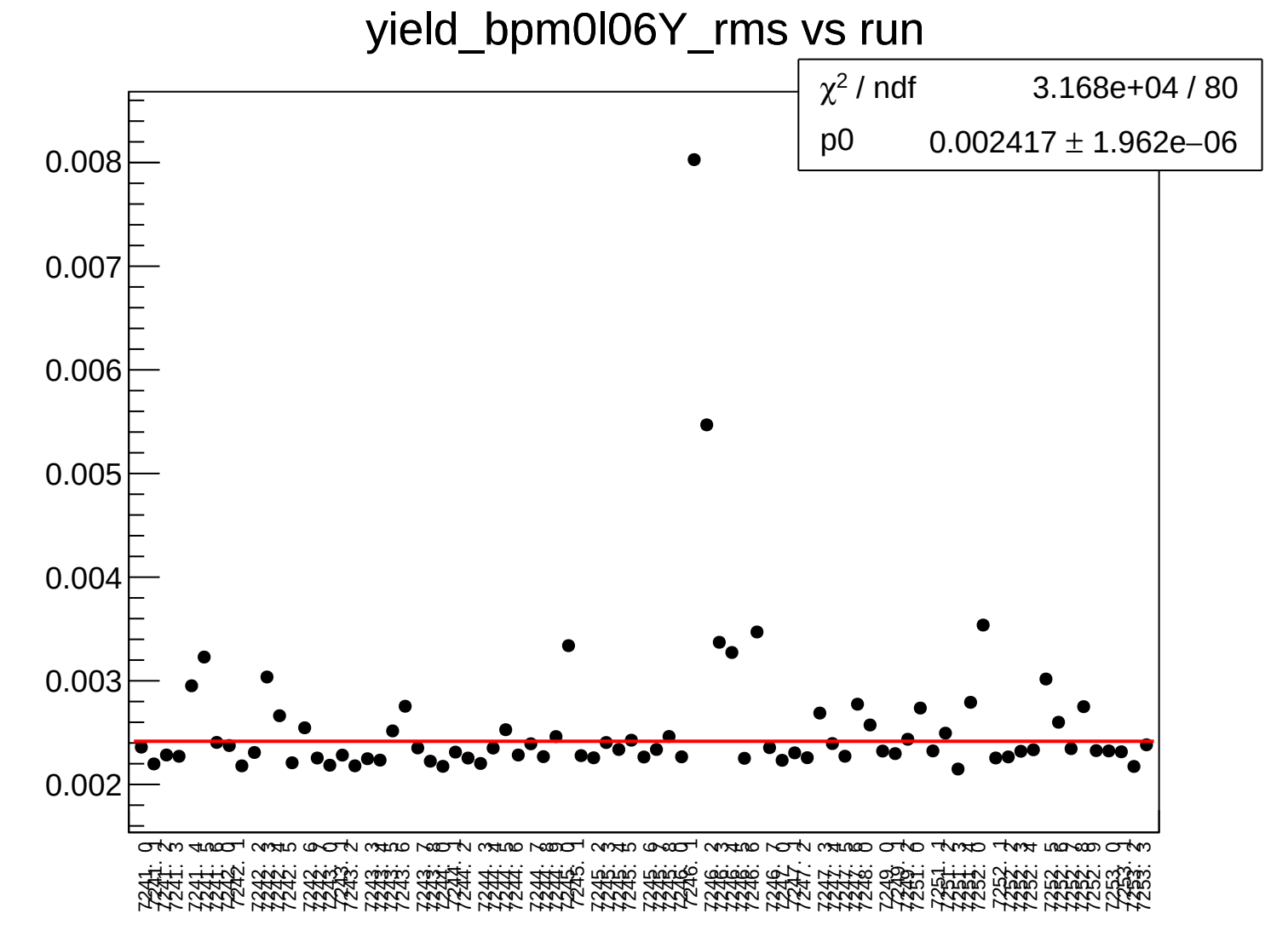

yield_bpm0l06X_mean vs run
χ² / ndf 3.845e+07 / 80
p0 2.632 ± 8.188e−06
pull
Entries 81
Mean 3987
Std Dev 0

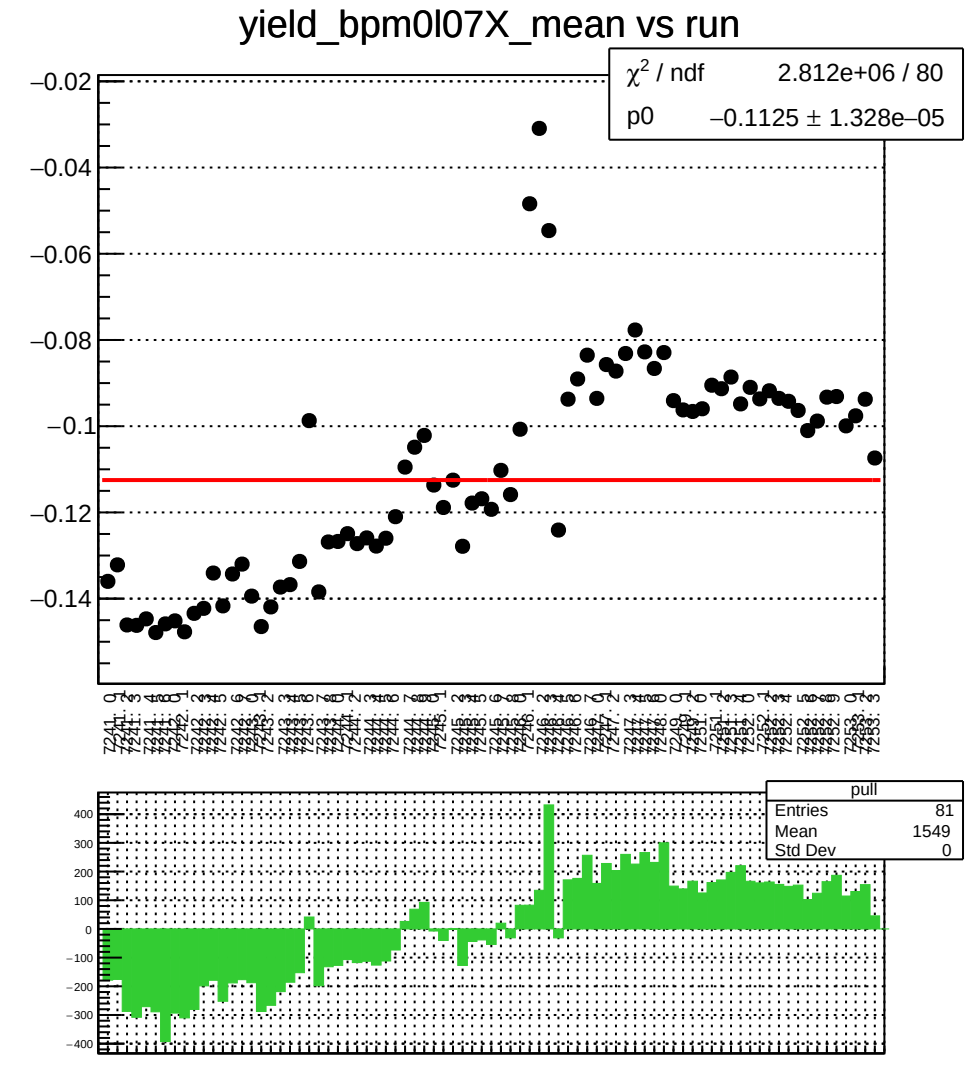

pull1D
Entries 81
Mean −5.539
Std Dev 0

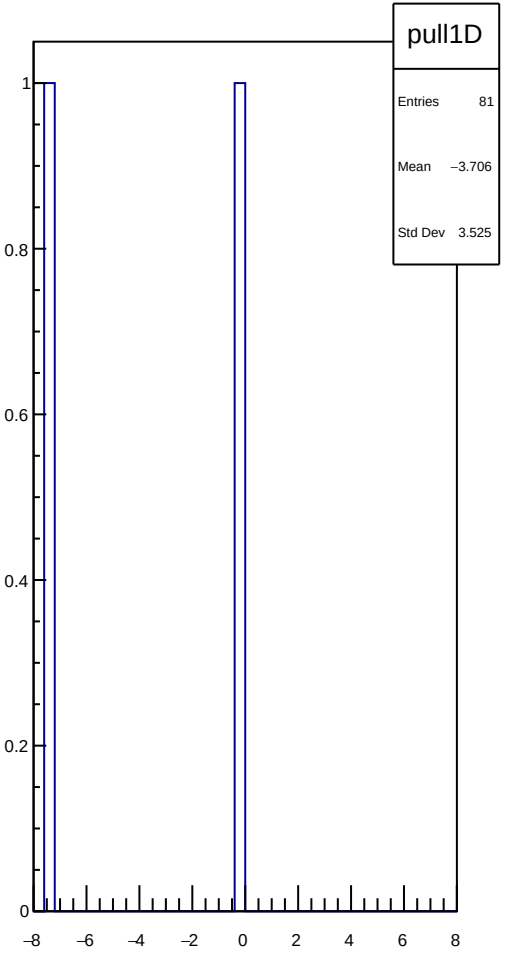

yield_bpm0l06X_rms vs run
χ² / ndf 6.508e+04 / 80
p0 0.007053 ± 5.79e–06
0.06
0.05
0.04
0.03
0.02
0.01

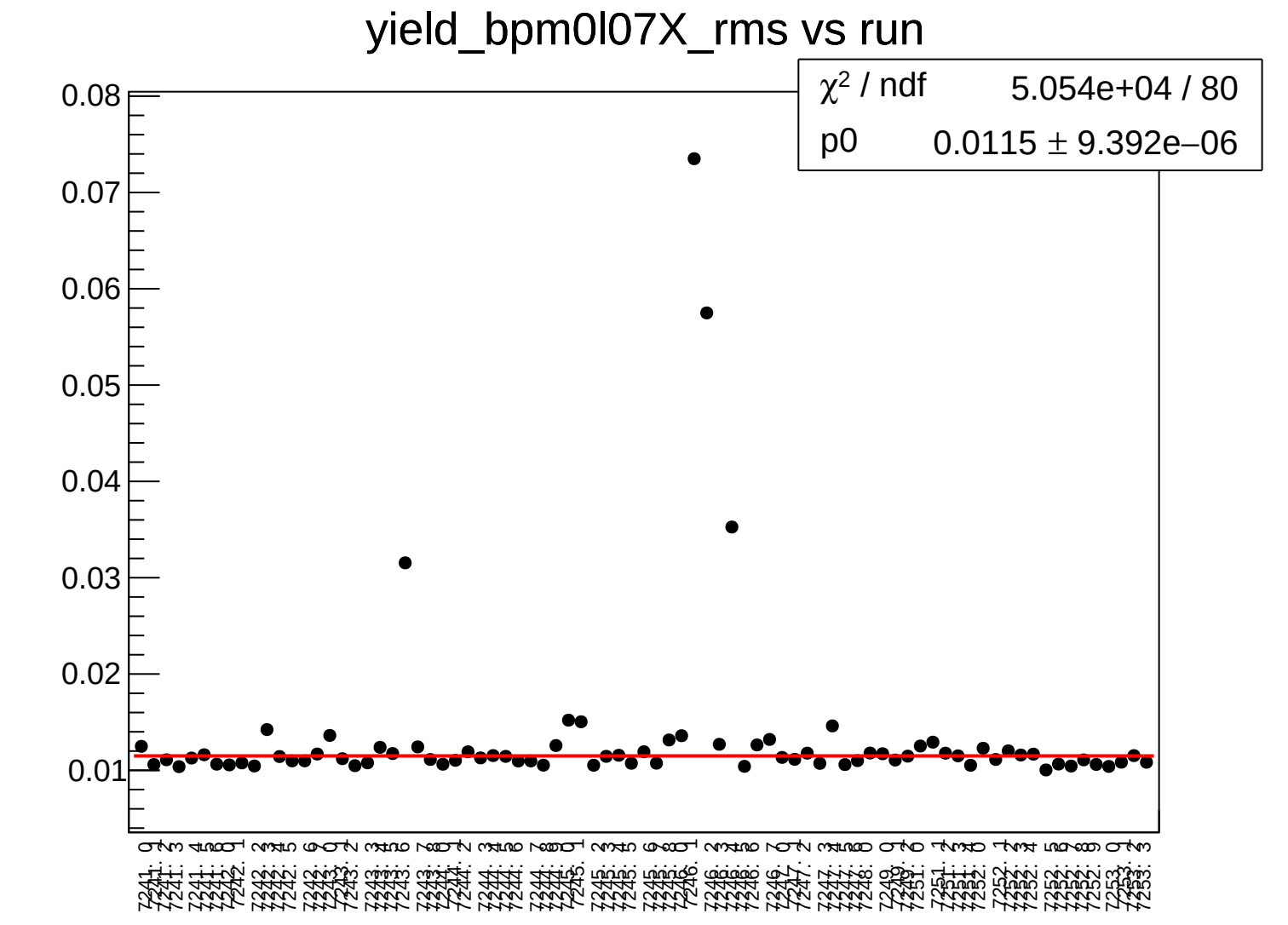

yield_bpm0l06Y_mean vs run
χ² / ndf 1.699e+07 / 80
p0 −1.6 ± 2.774e−06
−1.58
−1.59
−1.6
−1.61
−1.62
pull
Entries 81
Mean −1010
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000

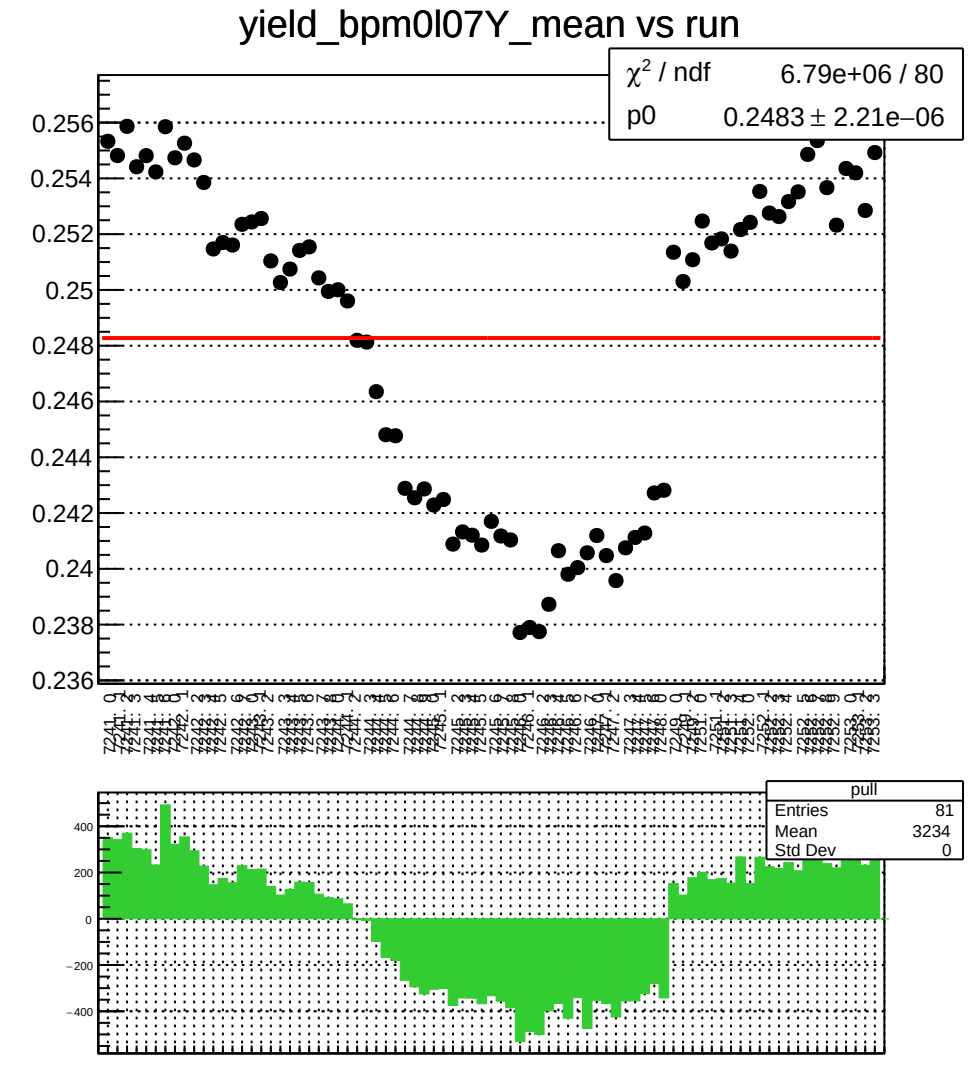

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

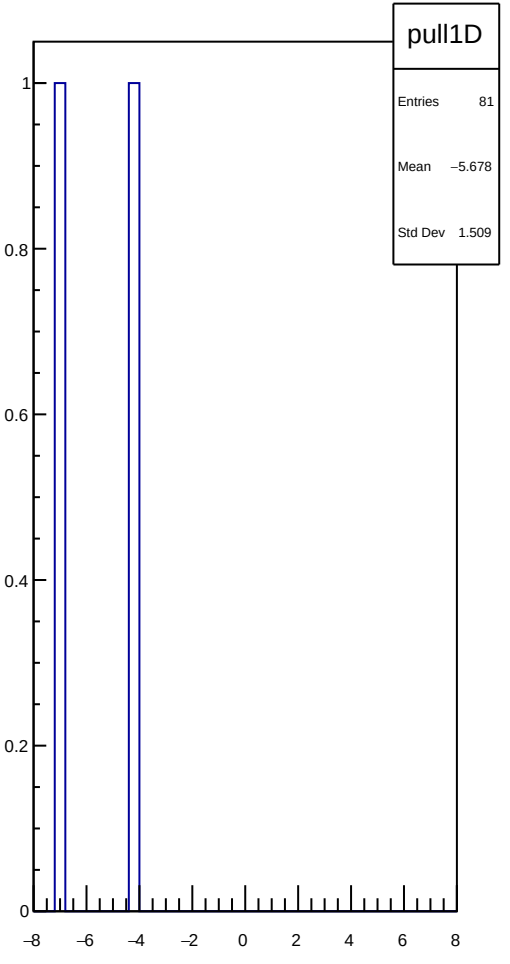

yield_bpm0l06Y_rms vs run
χ² / ndf 3.168e+04 / 80
p0 0.002417 ± 1.962e−06
0.008
0.007
0.006
0.005
0.004
0.003
0.002

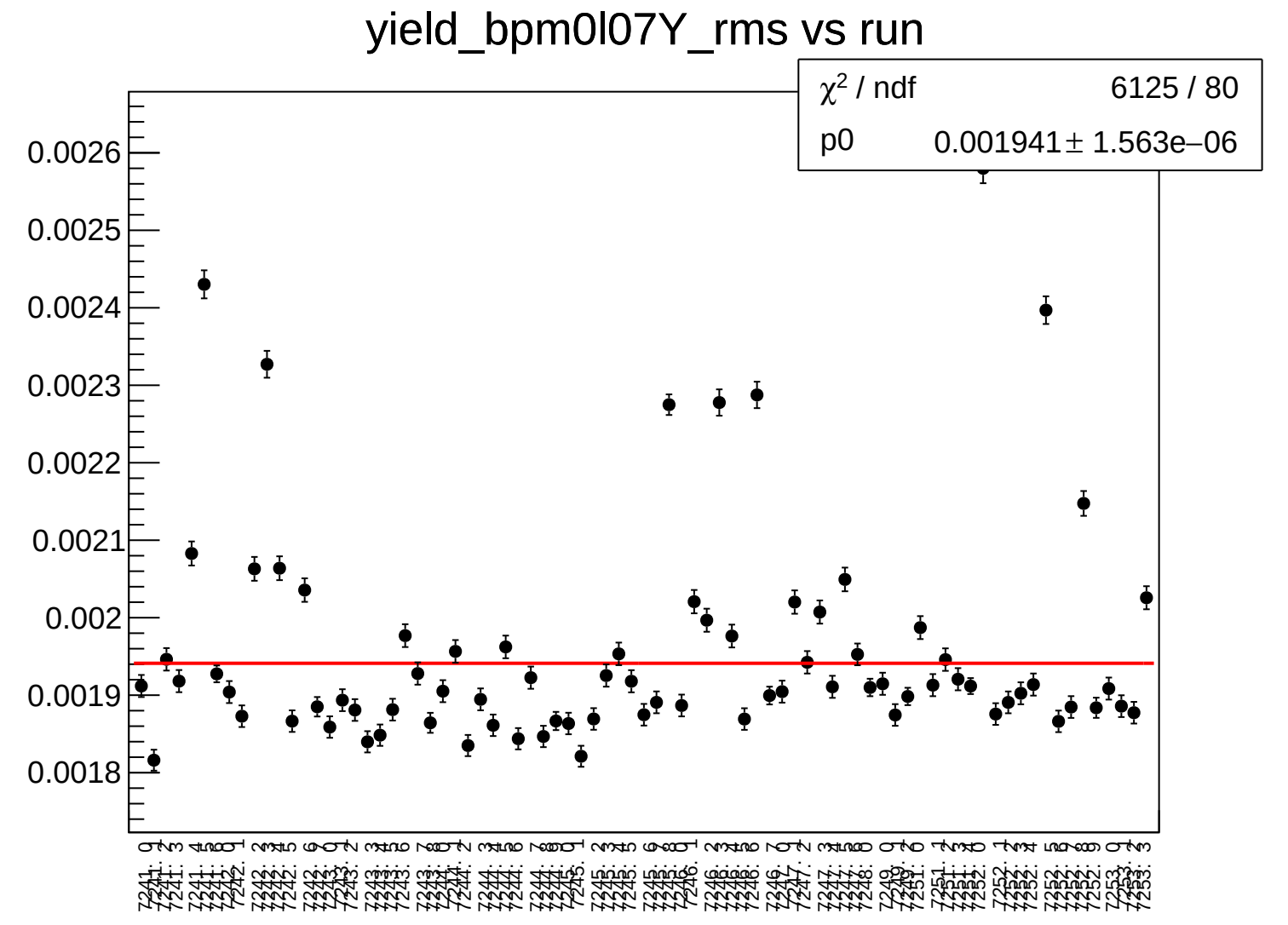

yield_bpm0l07X_mean vs run
χ² / ndf 2.812e+06 / 80
p0 −0.1125 ± 1.328e−05
pull
Entries 81
Mean 1549
Std Dev 0

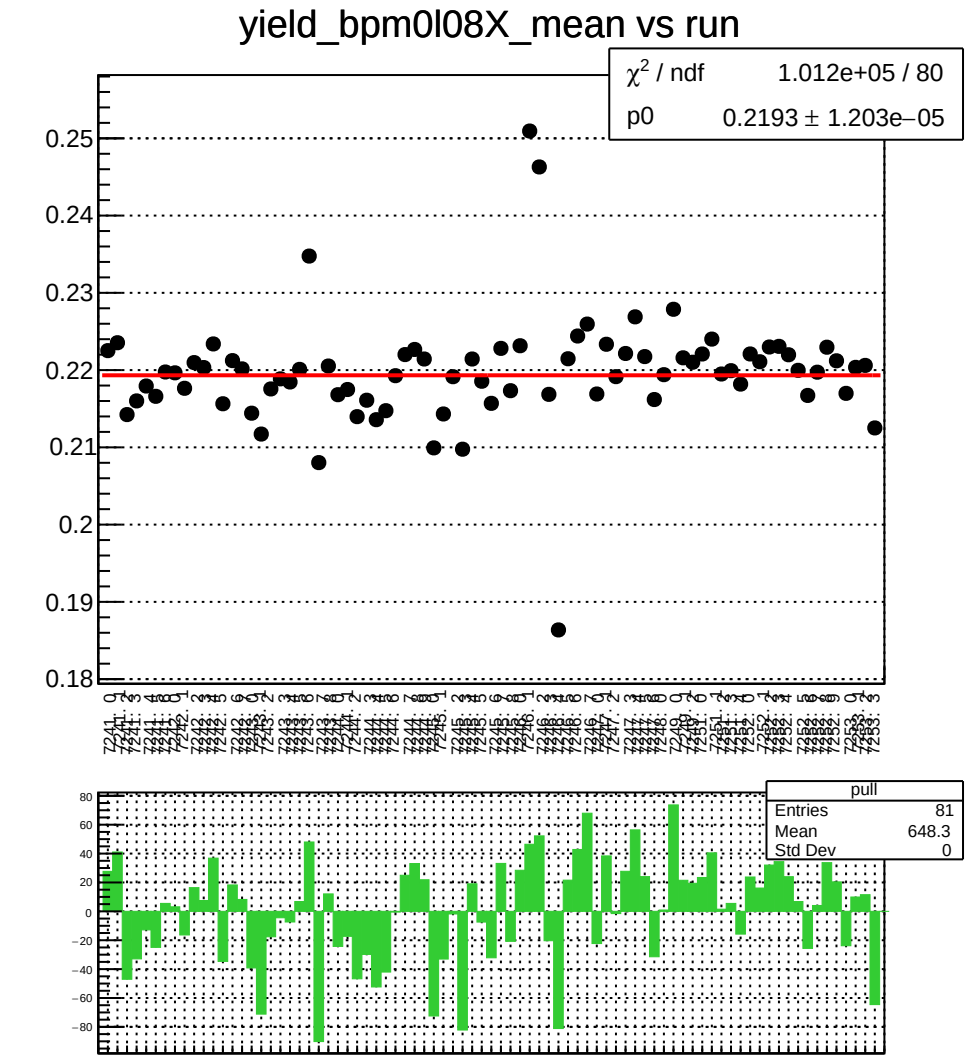

pull1D
Entries 81
Mean −3.706
Std Dev 3.525

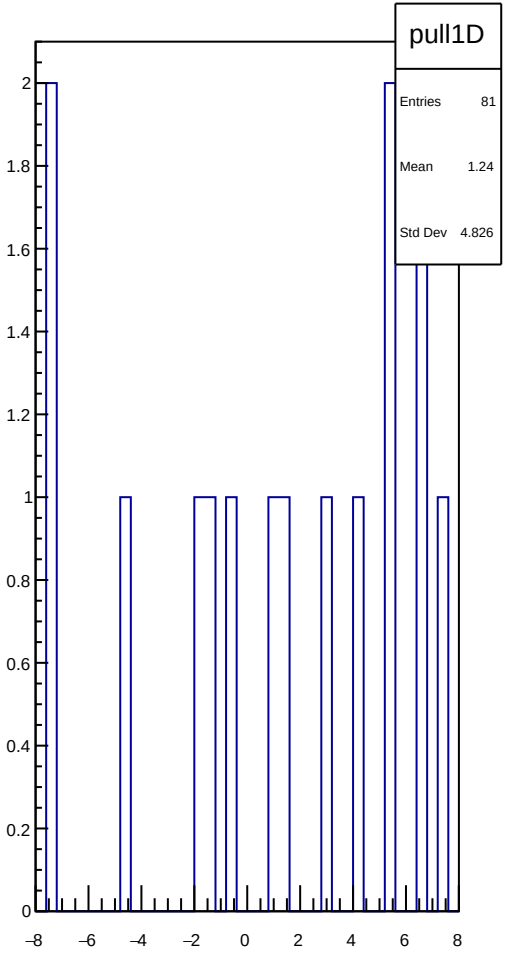

yield_bpm0l07X_rms vs run
χ² / ndf 5.054e+04 / 80
p0 0.0115 ± 9.392e−06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

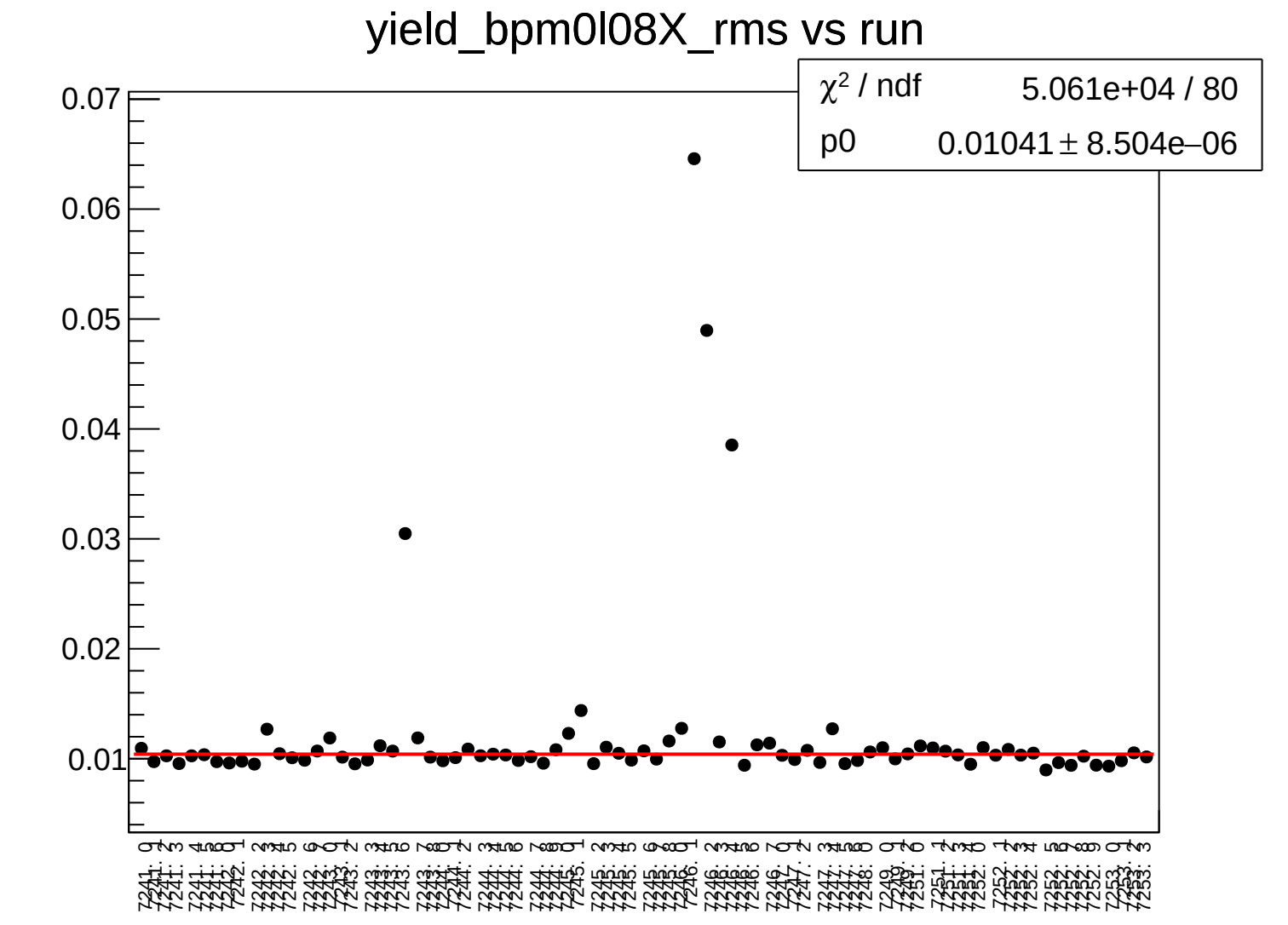

yield_bpm0l07Y_mean vs run
χ² / ndf 6.79e+06 / 80
p0 0.2483 ± 2.21e−06
0.256
0.254
0.252
0.25
0.248
0.246
0.244
0.242
0.24
0.238
0.236
pull
Entries 81
Mean 3234
Std Dev 0
400
200
0
−200
−400

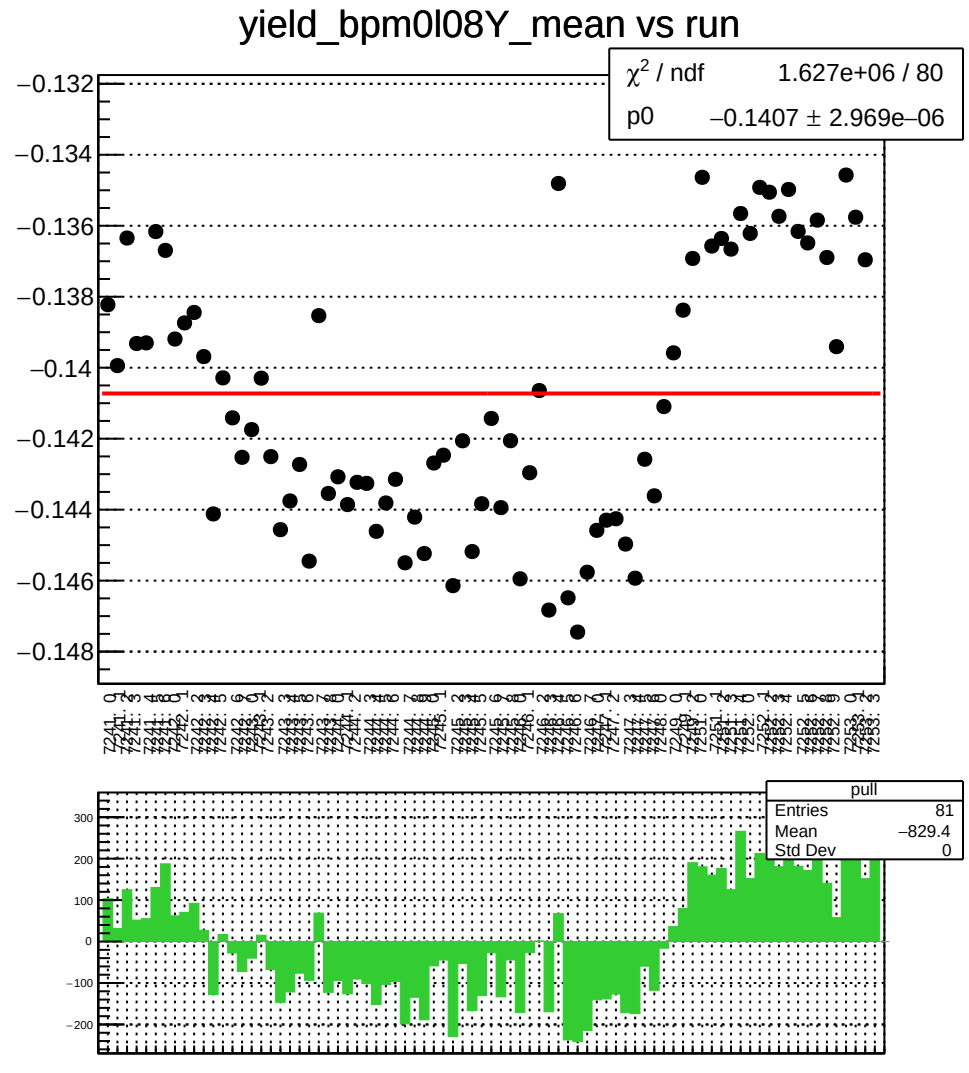

pull1D
Entries 81
Mean −5.678
Std Dev 1.509
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

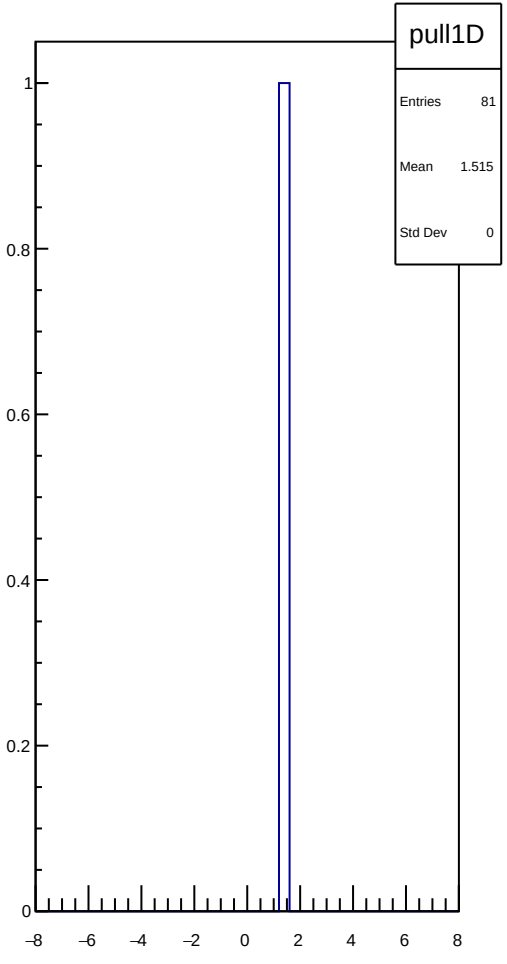

yield_bpm0l07Y_rms vs run
χ² / ndf 6125 / 80
p0 0.001941 ± 1.563e−06
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
0.0019
0.0018

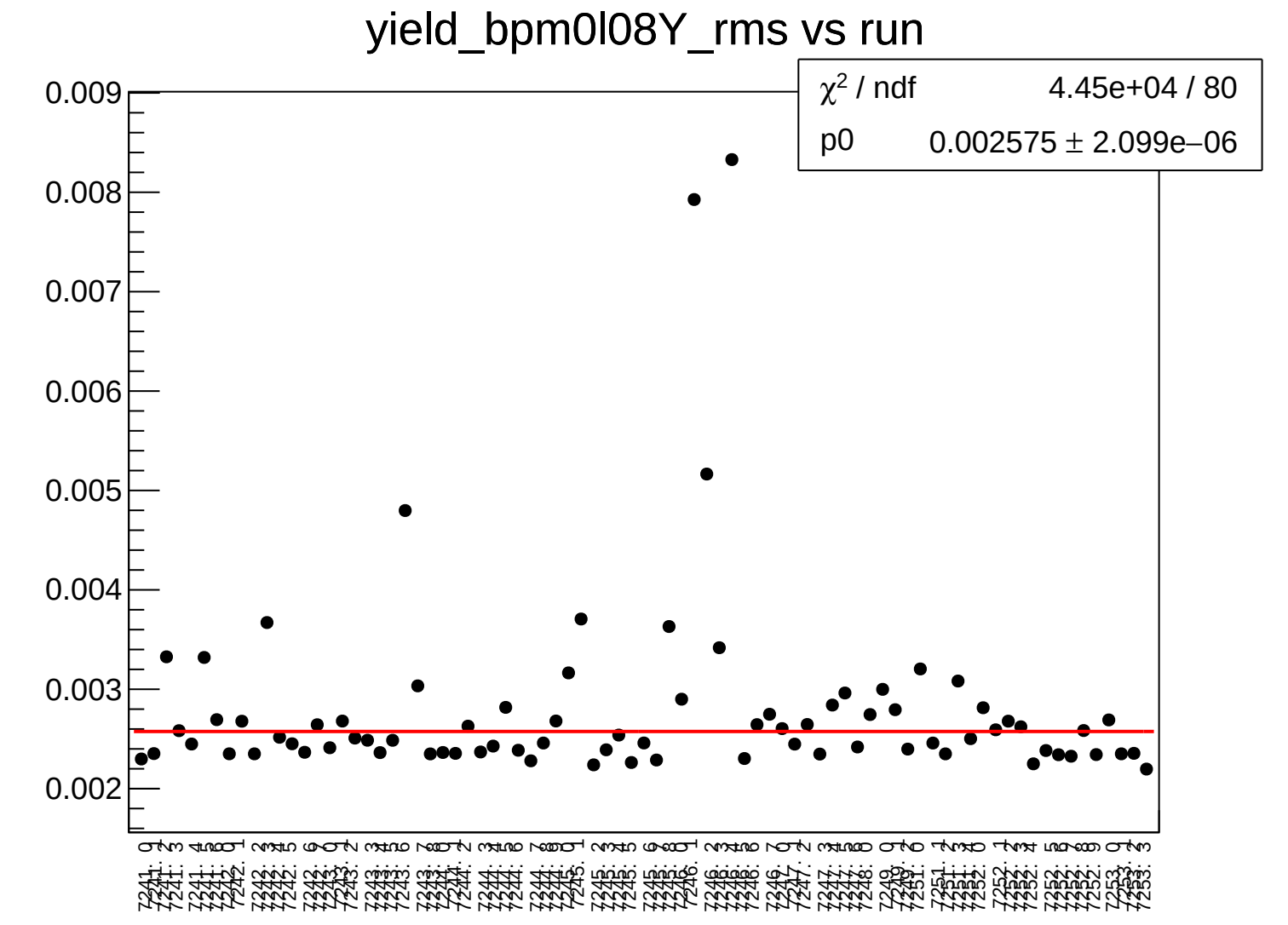

yield_bpm0l08X_mean vs run
χ² / ndf 1.012e+05 / 80
p0 0.2193 ± 1.203e−05
pull
Entries 81
Mean 648.3
Std Dev 0

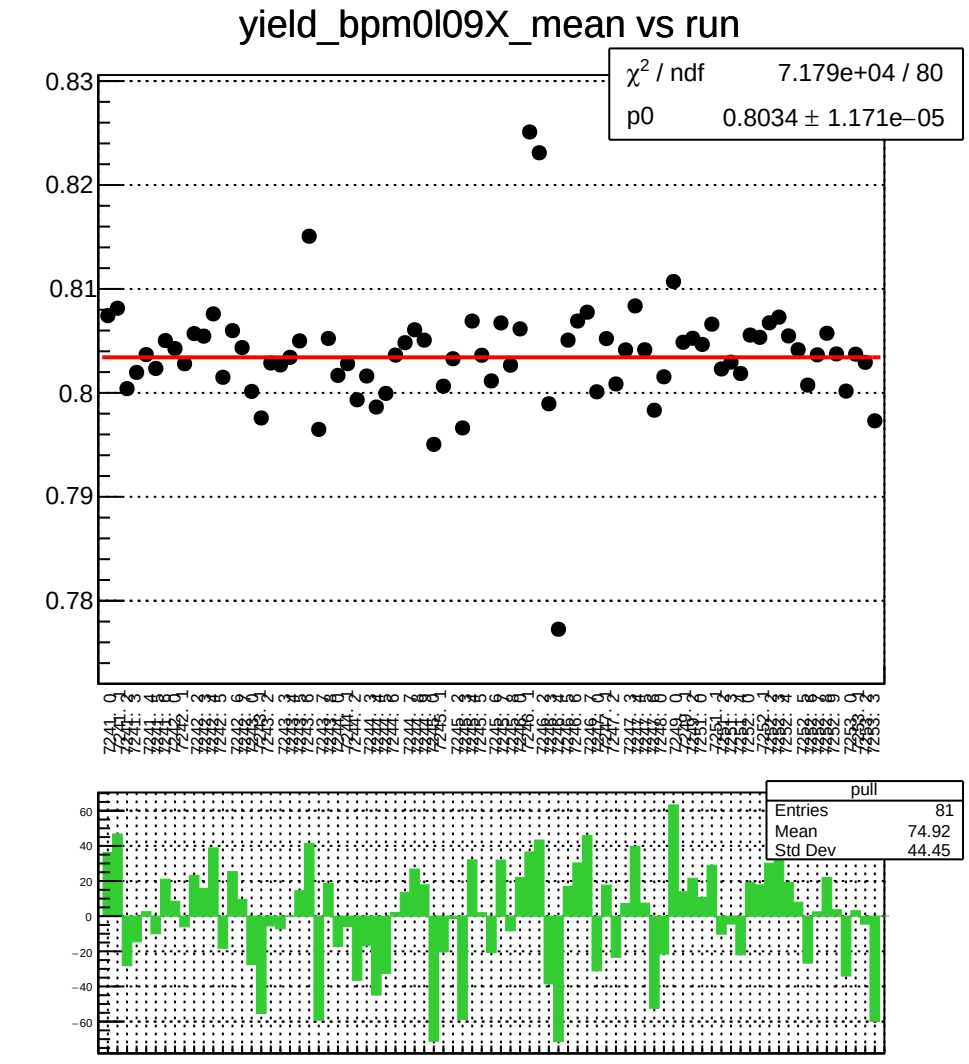

pull1D
Entries 81
Mean 1.24
Std Dev 4.826

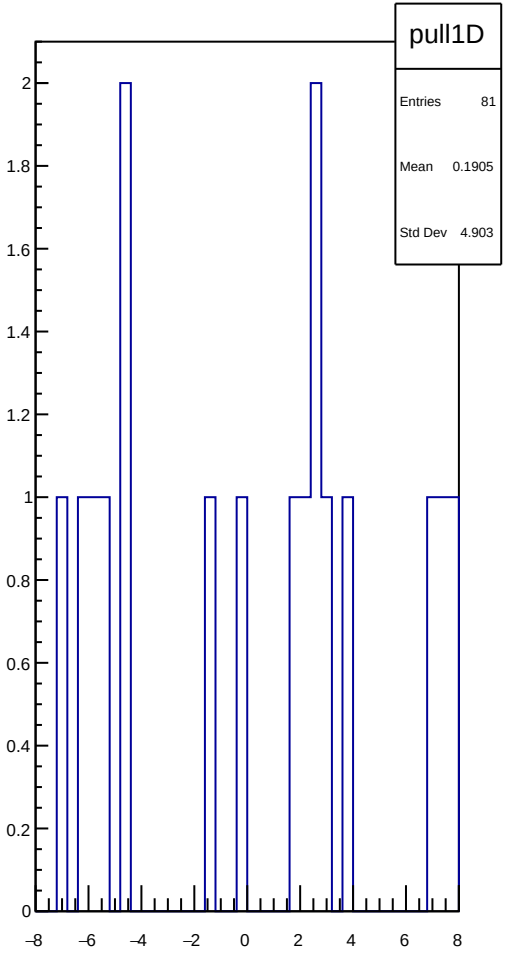

yield_bpm0l08X_rms vs run
χ² / ndf 5.061e+04 / 80
p0 0.01041 ± 8.504e–06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

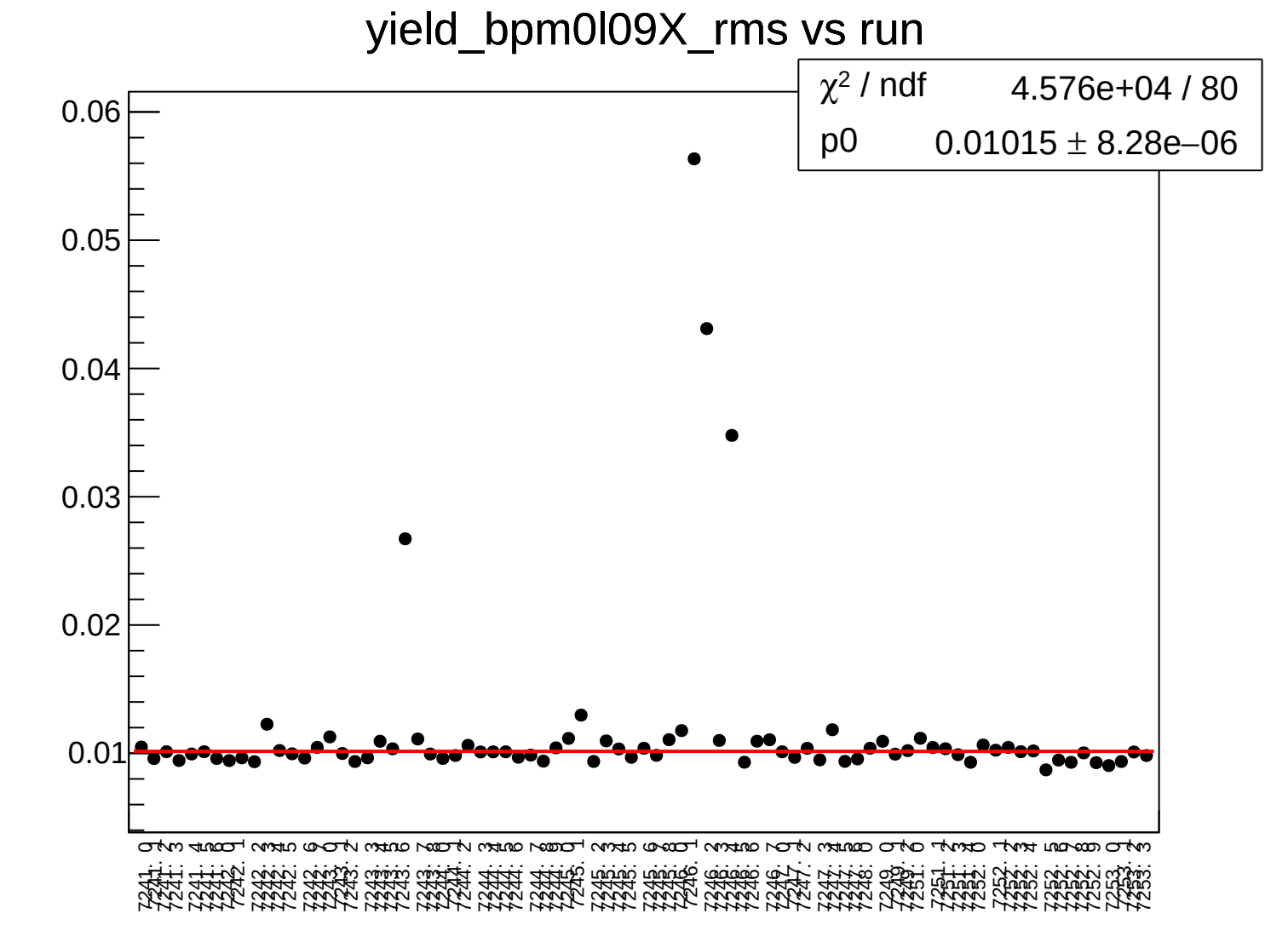

yield_bpm0l08Y_mean vs run
χ² / ndf 1.627e+06 / 80
p0 −0.1407 ± 2.969e−06
−0.132
−0.134
−0.136
−0.138
−0.14
−0.142
−0.144
−0.146
−0.148
pull
Entries 81
Mean −829.4
Std Dev 0
300
200
100
0
−100
−200

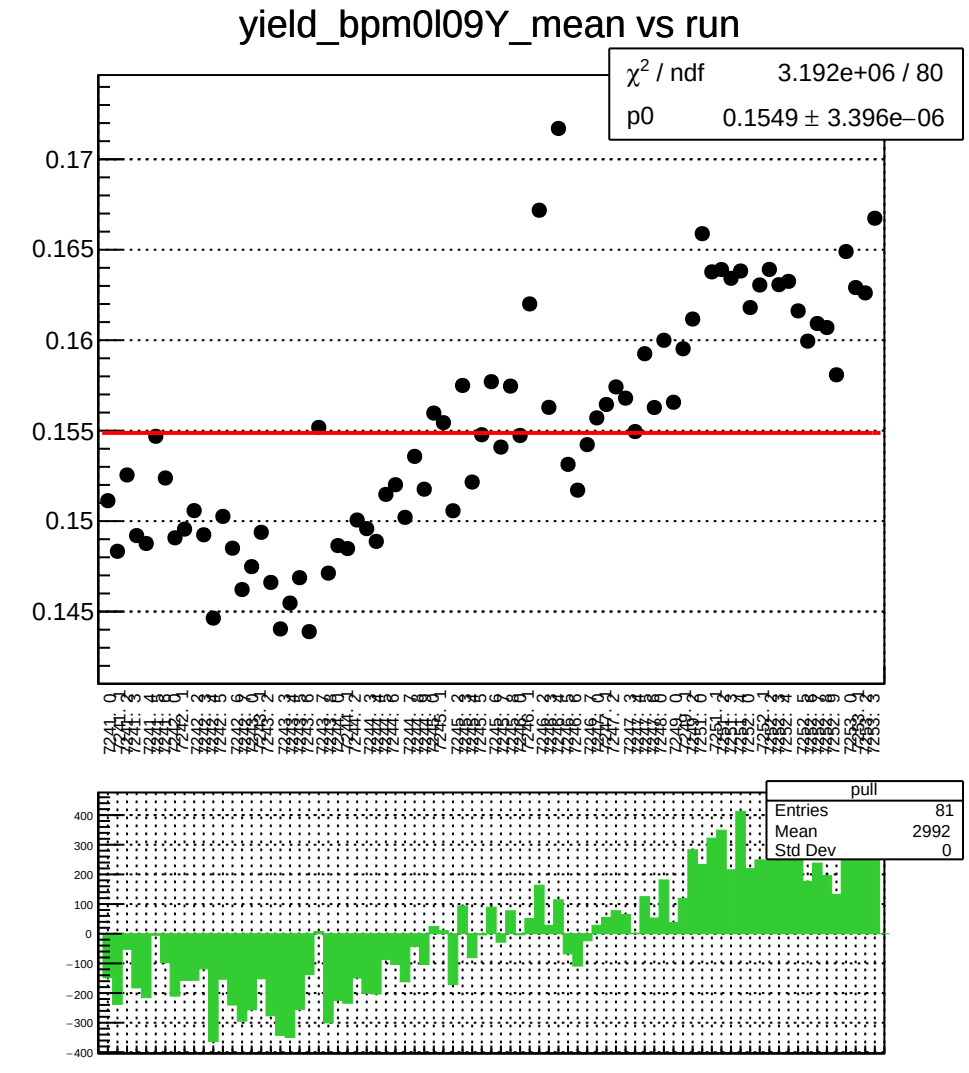

pull1D
Entries 81
Mean 1.515
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

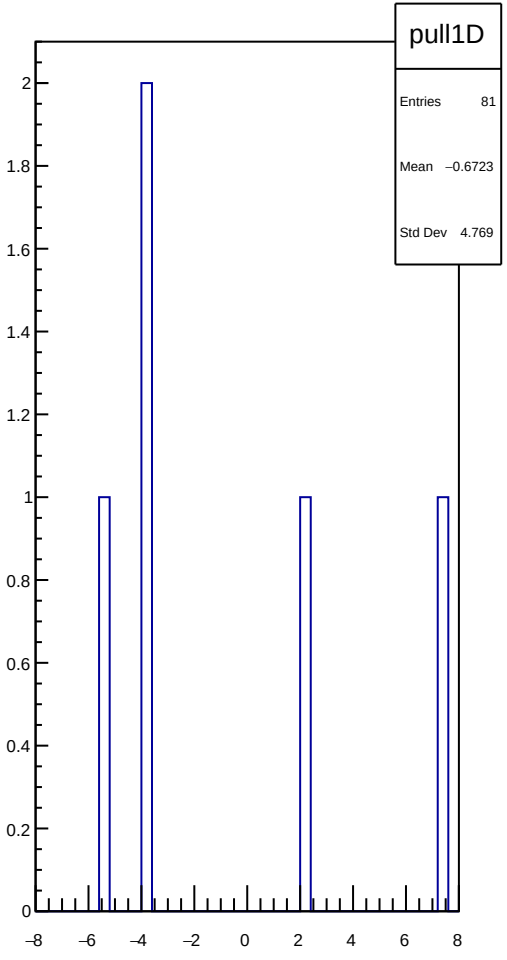

yield_bpm0l08Y_rms vs run
χ^2 / ndf 4.45e+04 / 80
p0 0.002575 ± 2.099e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

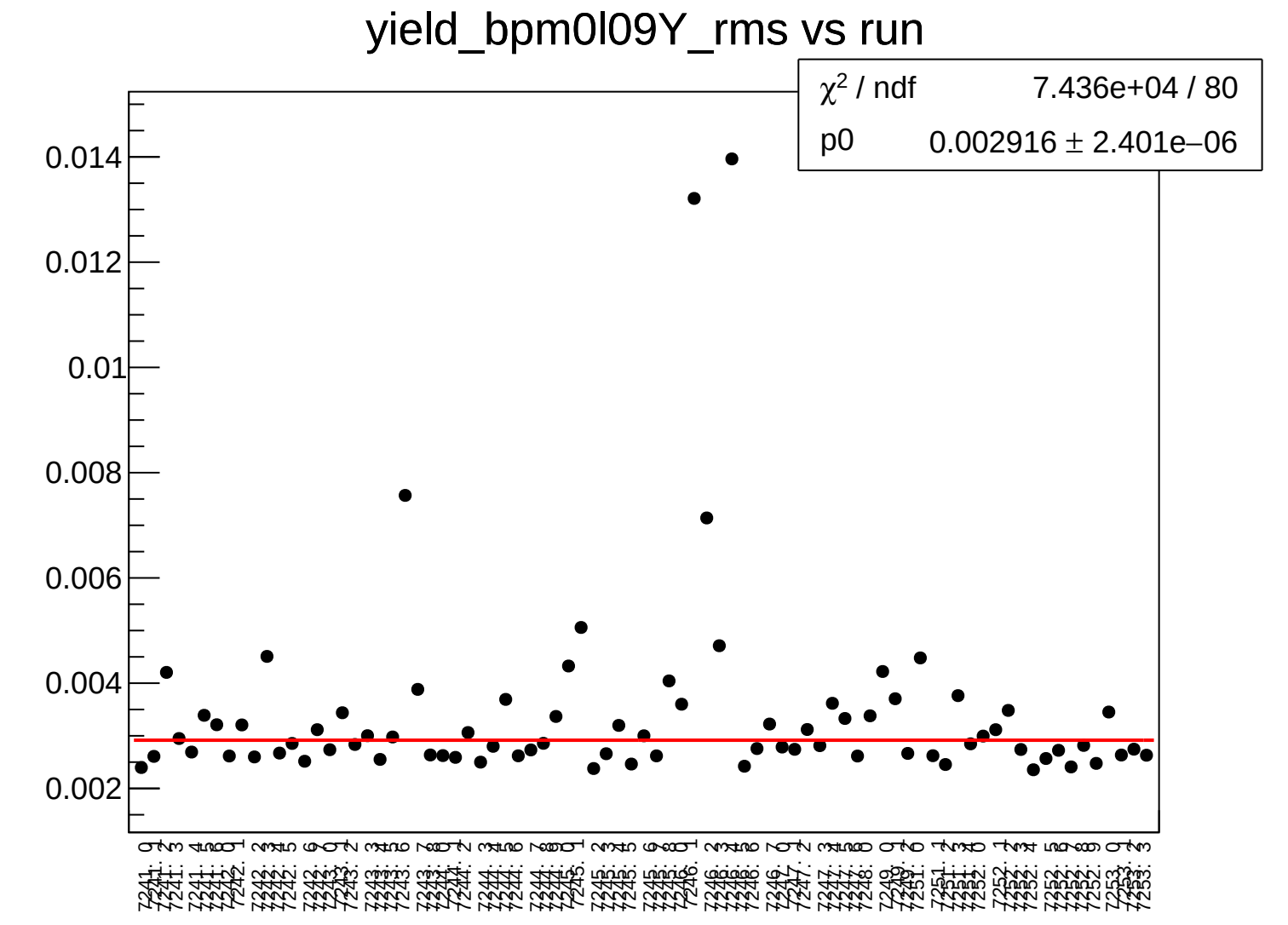

yield_bpm0l09X_mean vs run
χ² / ndf 7.179e+04 / 80
p0 0.8034 ± 1.171e−05
0.83
0.82
0.81
0.8
0.79
0.78
pull
Entries 81
Mean 74.92
Std Dev 44.45
60
40
20
0
−20
−40
−60

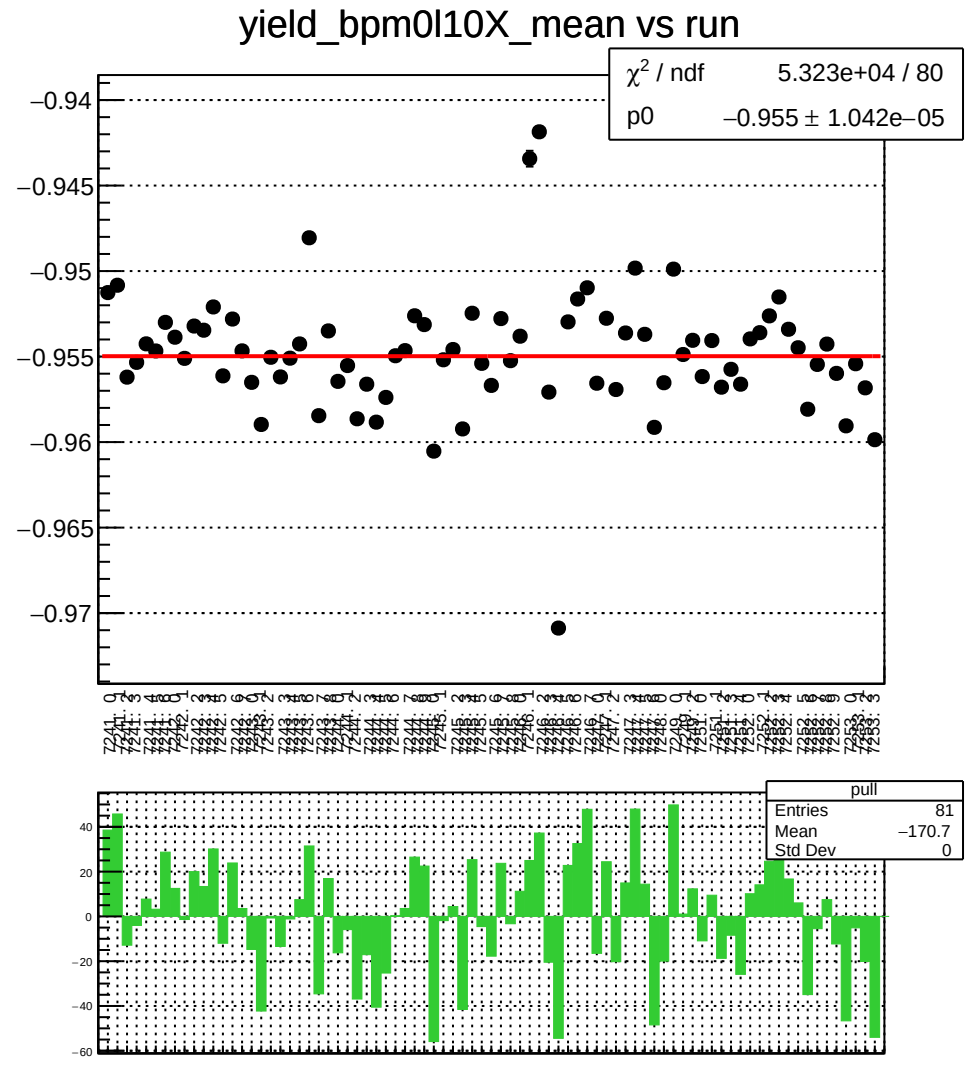

pull1D
Entries 81
Mean 0.1905
Std Dev 4.903
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

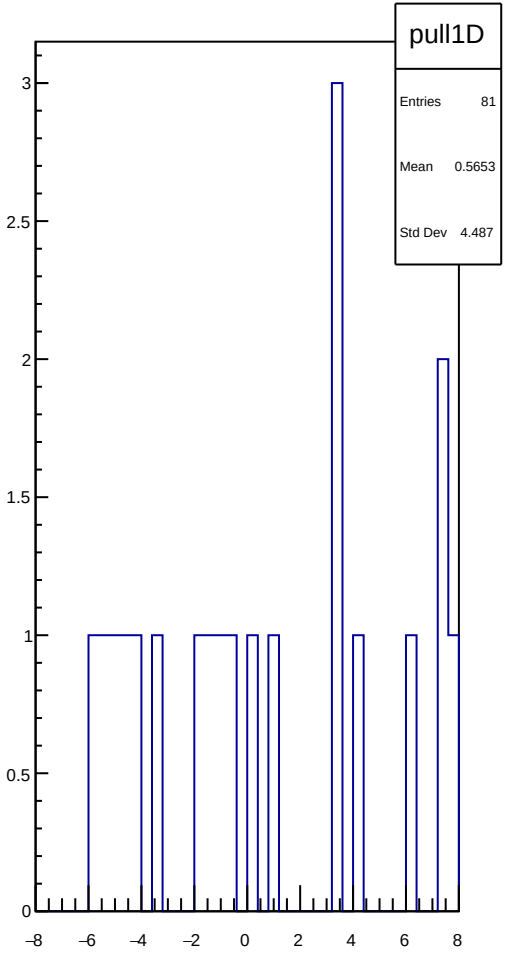

yield_bpm0l09X_rms vs run
χ² / ndf 4.576e+04 / 80
p0 0.01015 ± 8.28e−06
0.06
0.05
0.04
0.03
0.02
0.01

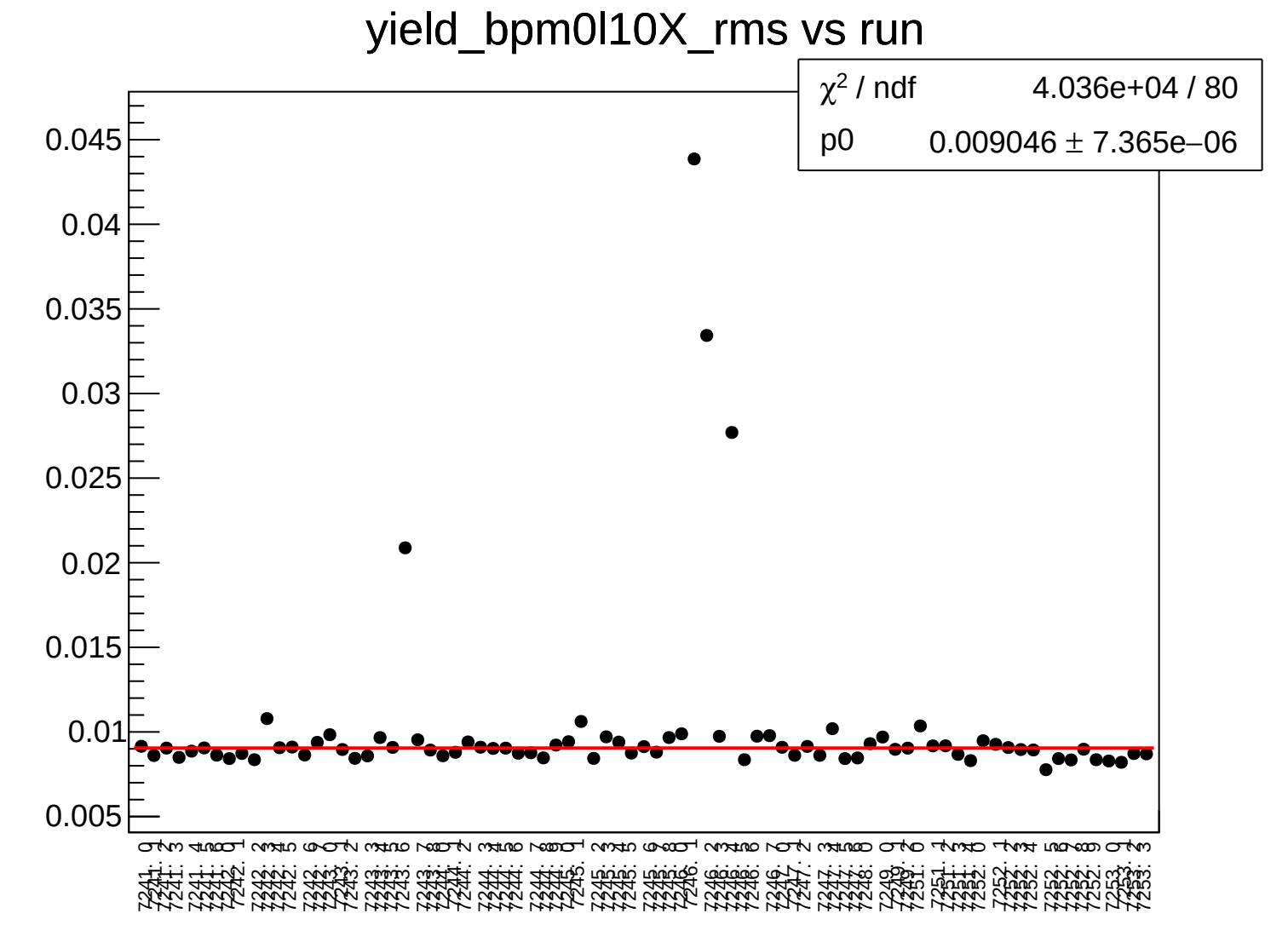

yield_bpm0l09Y_mean vs run
χ² / ndf 3.192e+06 / 80
p0 0.1549 ± 3.396e−06
0.17
0.165
0.16
0.155
0.15
0.145
pull
Entries 81
Mean 2992
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400

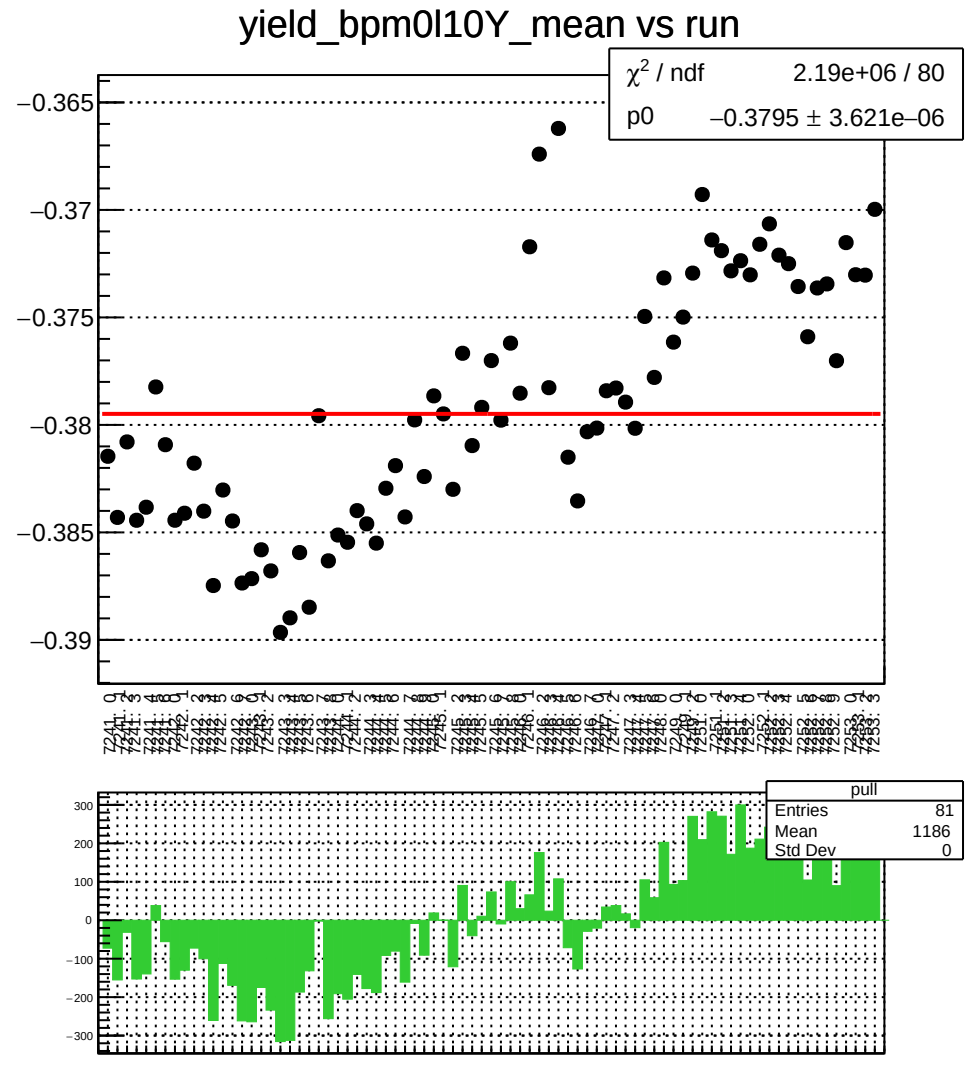

pull1D
Entries 81
Mean −0.6723
Std Dev 4.769
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

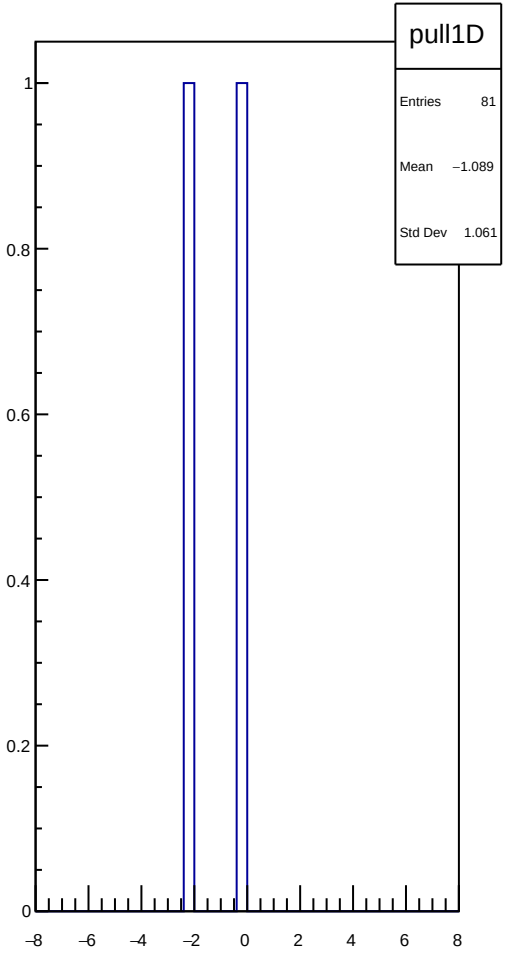

yield_bpm0l09Y_rms vs run
χ^2 / ndf 7.436e+04 / 80
p0 0.002916 ± 2.401e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002

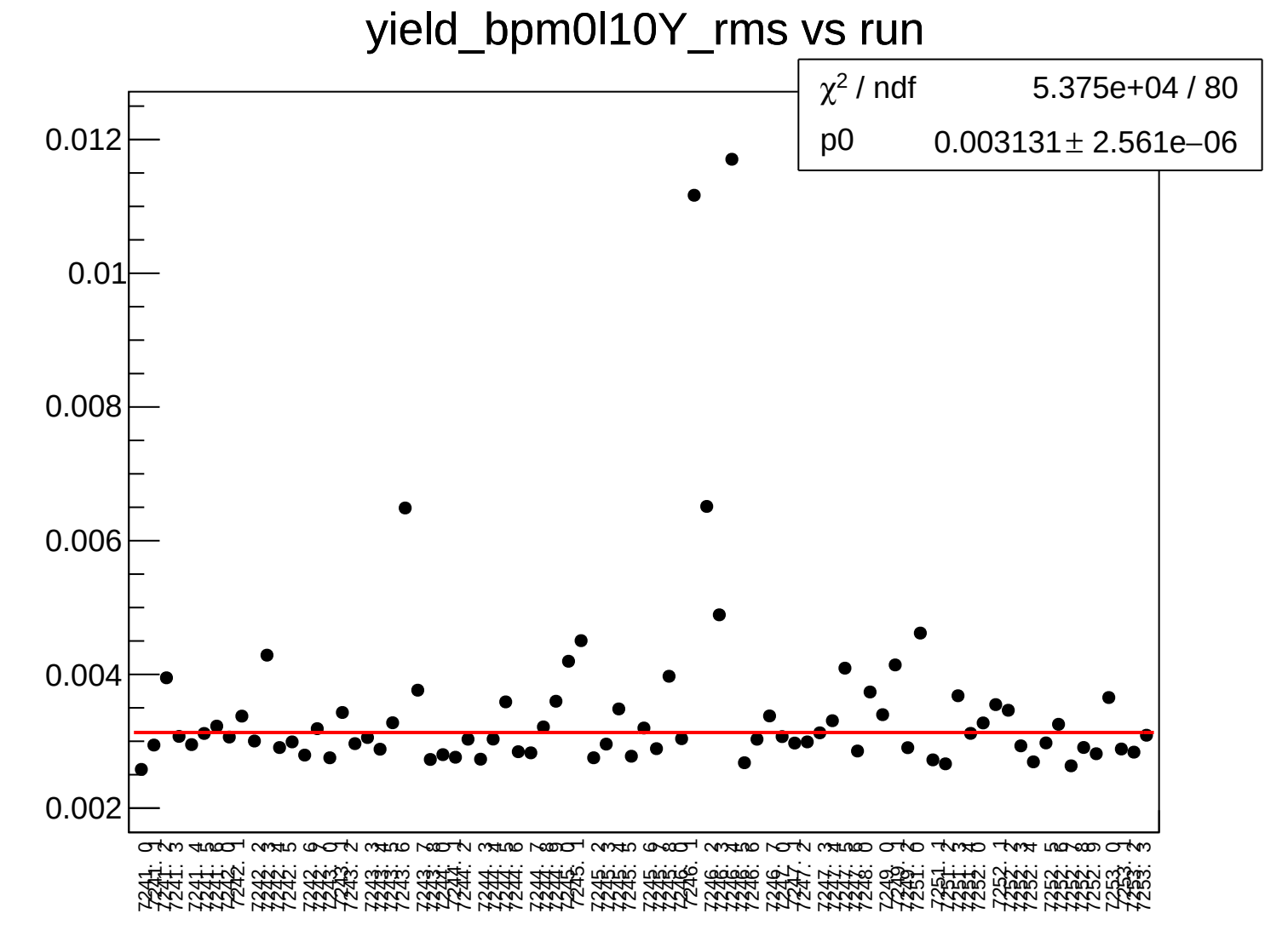

yield_bpm0l10X_mean vs run
χ² / ndf 5.323e+04 / 80
p0 −0.955 ± 1.042e−05
−0.94
−0.945
−0.95
−0.955
−0.96
−0.965
−0.97
pull
Entries 81
Mean −170.7
Std Dev 0
40
20
0
−20
−40
−60

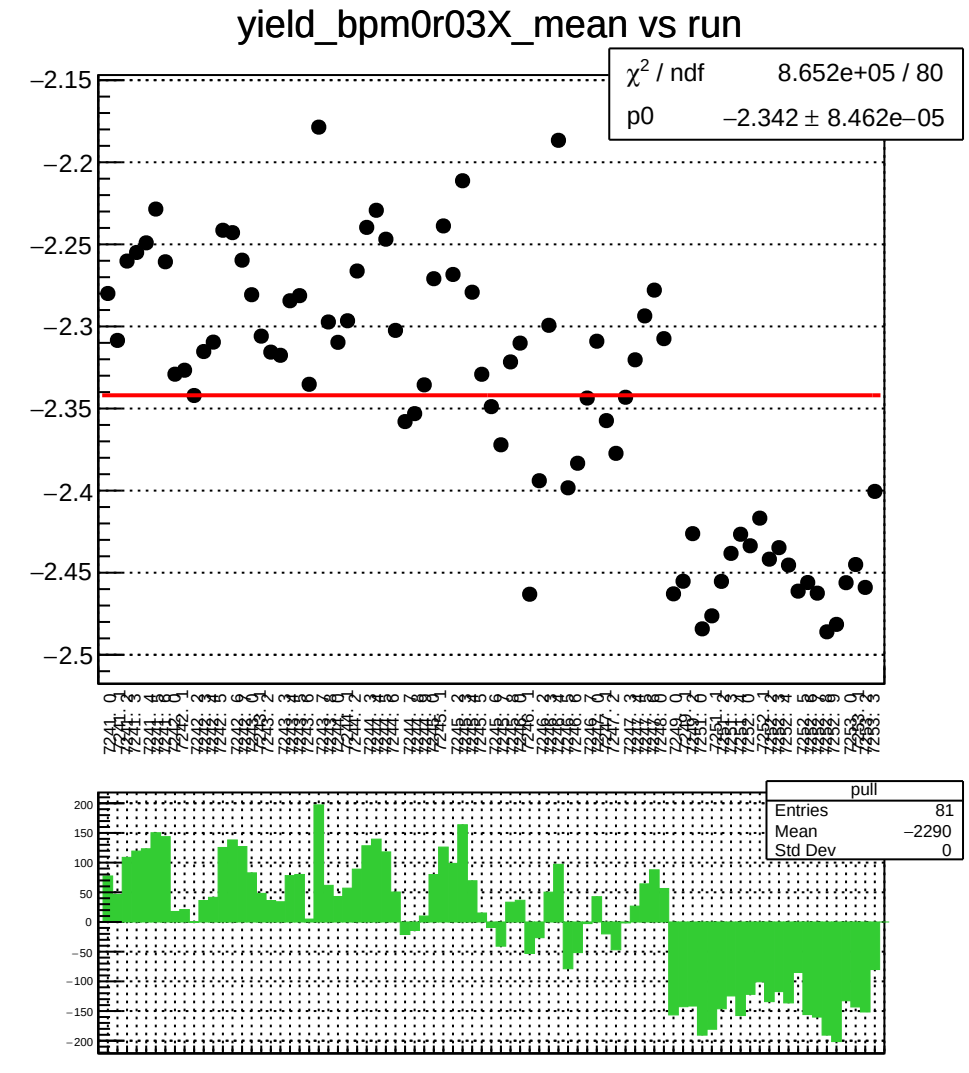

pull1D
Entries 81
Mean 0.5653
Std Dev 4.487
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

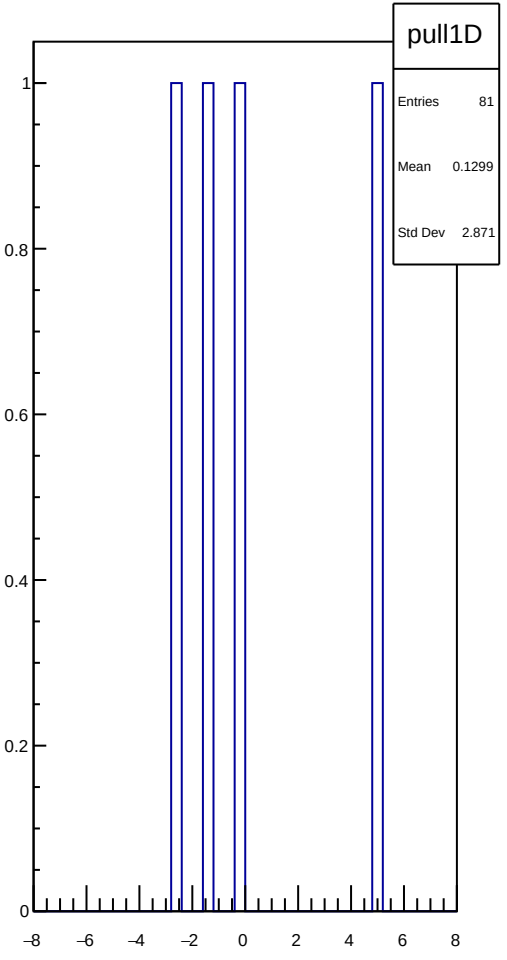

yield_bpm0l10X_rms vs run
χ² / ndf 4.036e+04 / 80
p0 0.009046 ± 7.365e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

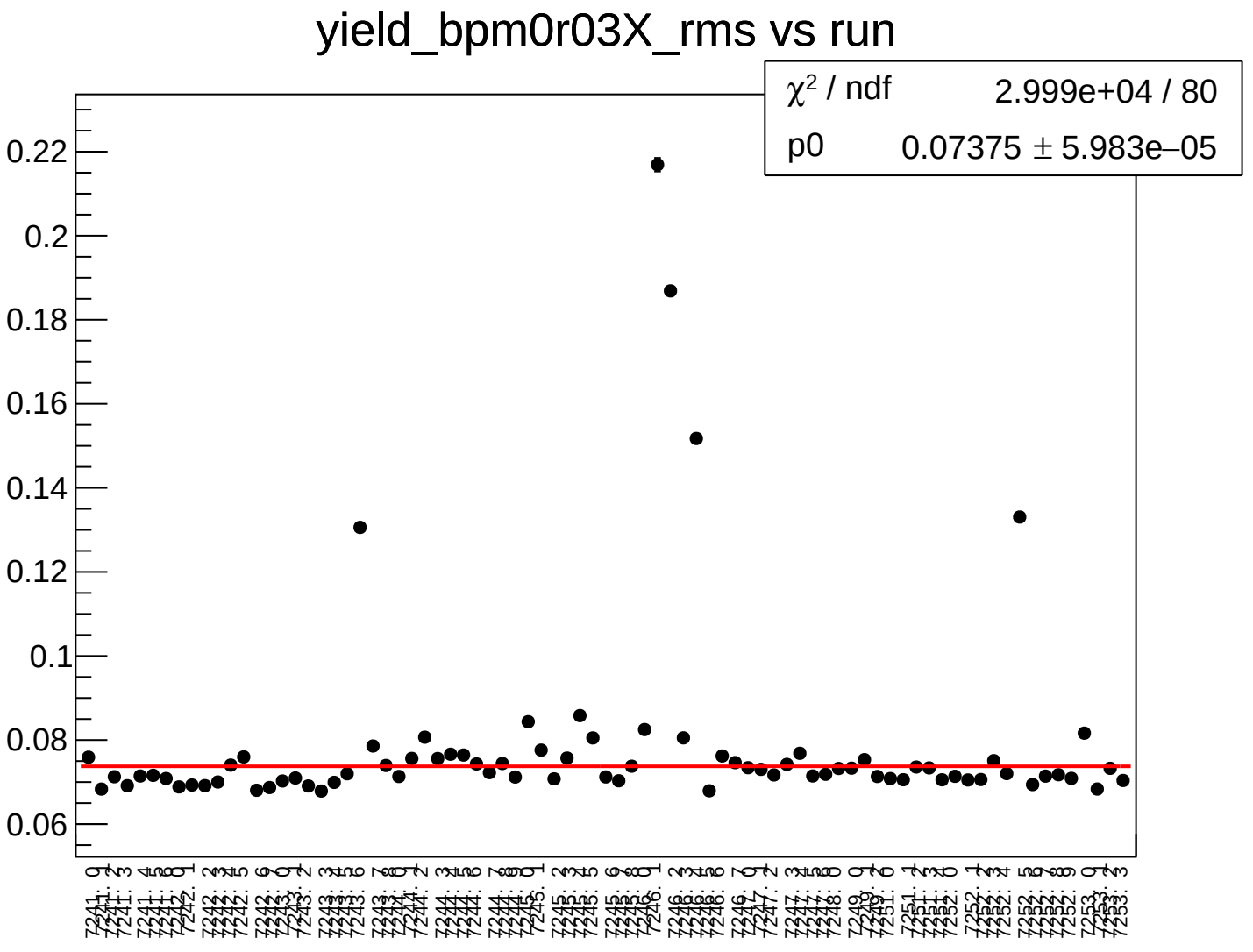

yield_bpm0l10Y_mean vs run
χ² / ndf 2.19e+06 / 80
p0 −0.3795 ± 3.621e−06
−0.365
−0.37
−0.375
−0.38
−0.385
−0.39
pull
Entries 81
Mean 1186
Std Dev 0
300
200
100
0
−100
−200
−300

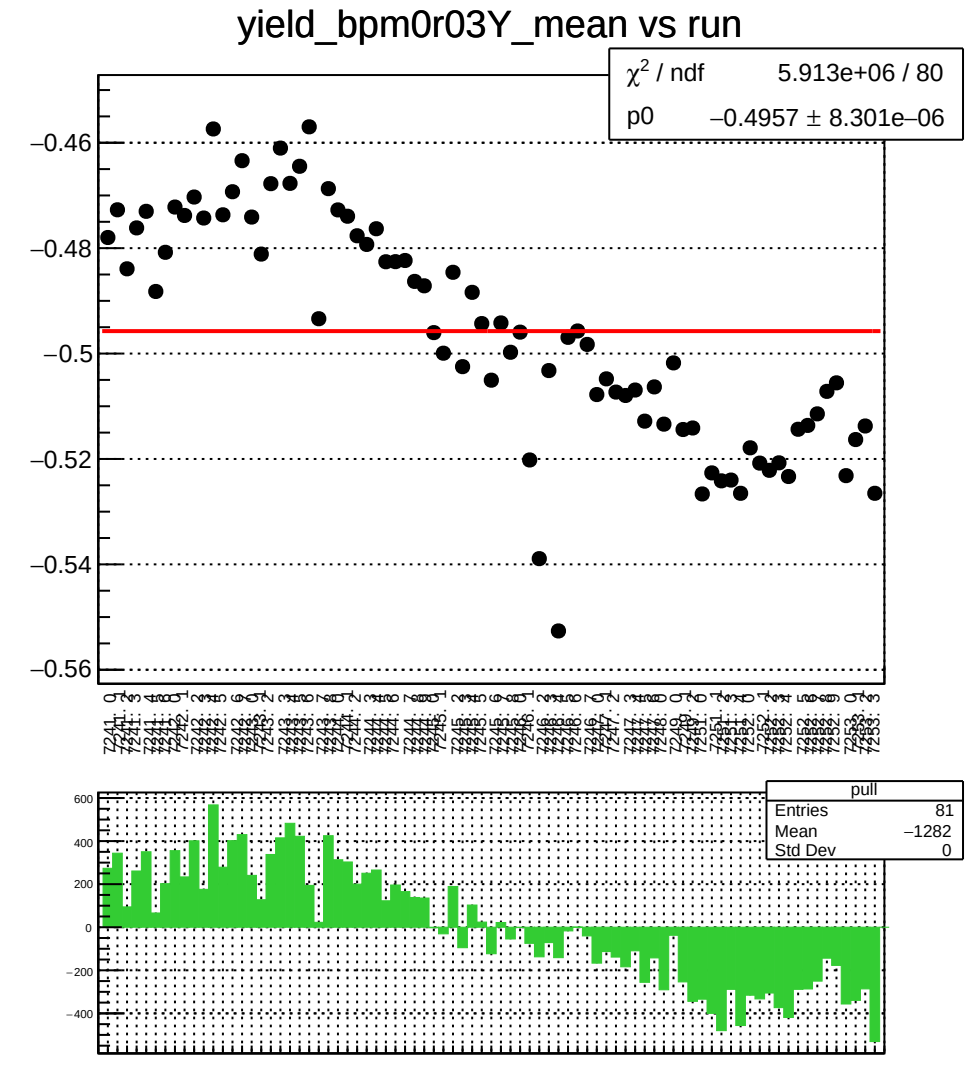

pull1D
Entries 81
Mean −1.089
Std Dev 1.061
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

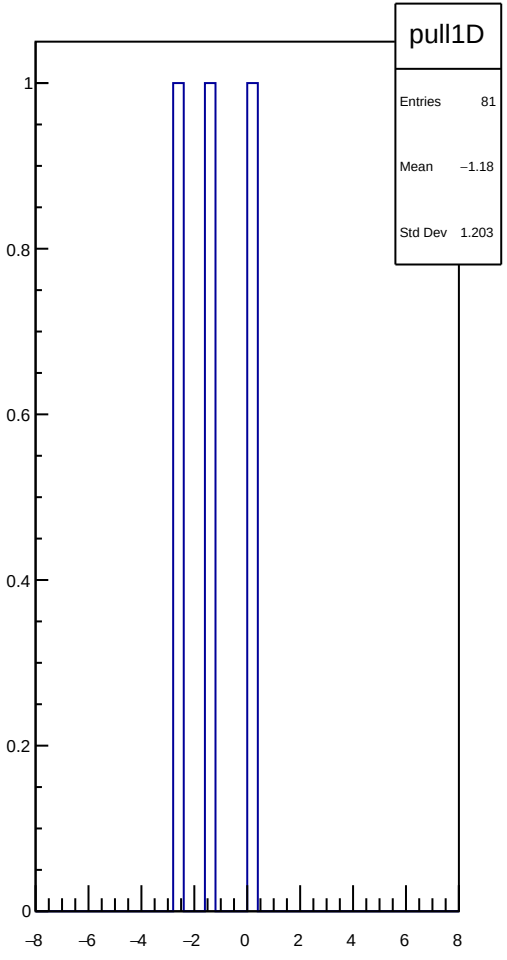

yield_bpm0l10Y_rms vs run
χ^2 / ndf 5.375e+04 / 80
p0 0.003131 ± 2.561e−06
0.012
0.01
0.008
0.006
0.004
0.002

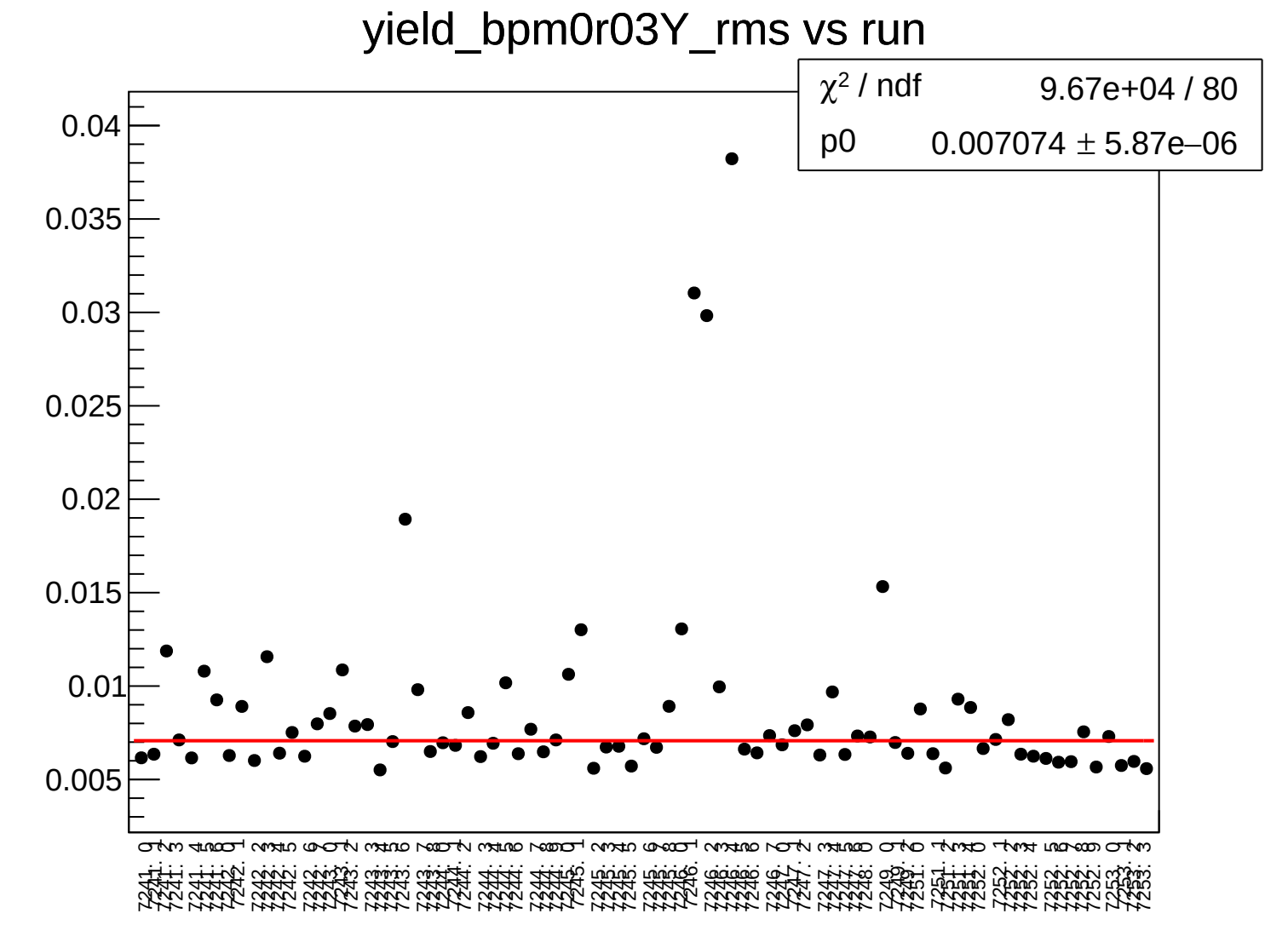

yield_bpm0r03X_mean vs run
χ² / ndf 8.652e+05 / 80
p0 −2.342 ± 8.462e−05
pull
Entries 81
Mean −2290
Std Dev 0

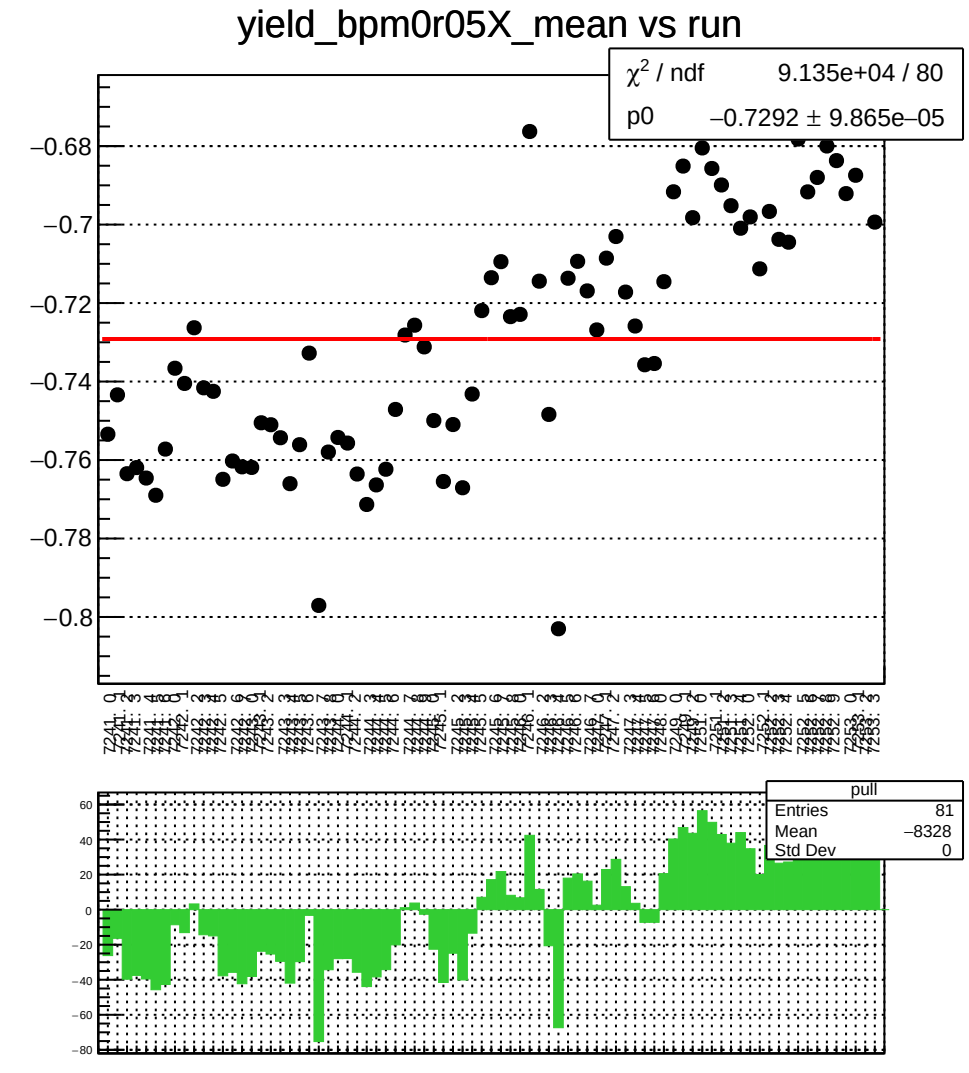

pull1D
Entries 81
Mean 0.1299
Std Dev 2.871

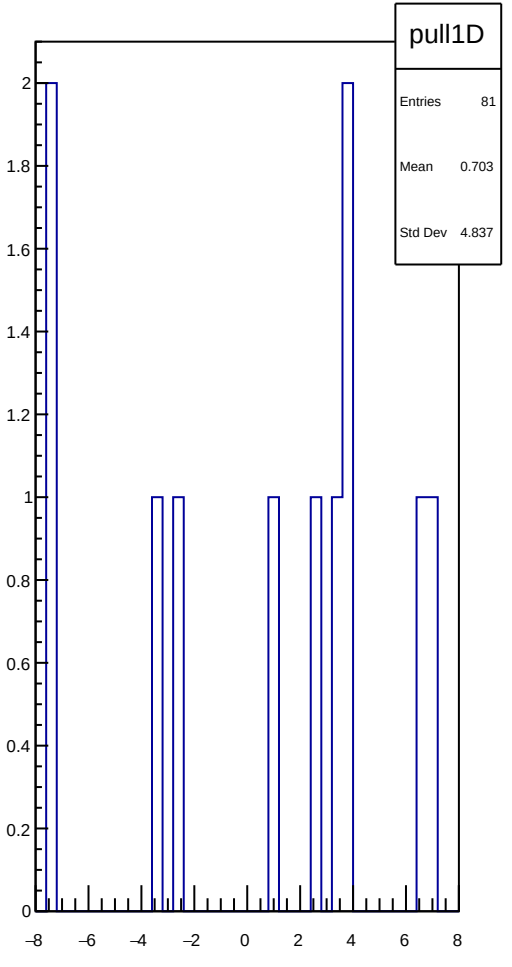

yield_bpm0r03X_rms vs run
χ² / ndf 2.999e+04 / 80
p0 0.07375 ± 5.983e–05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06

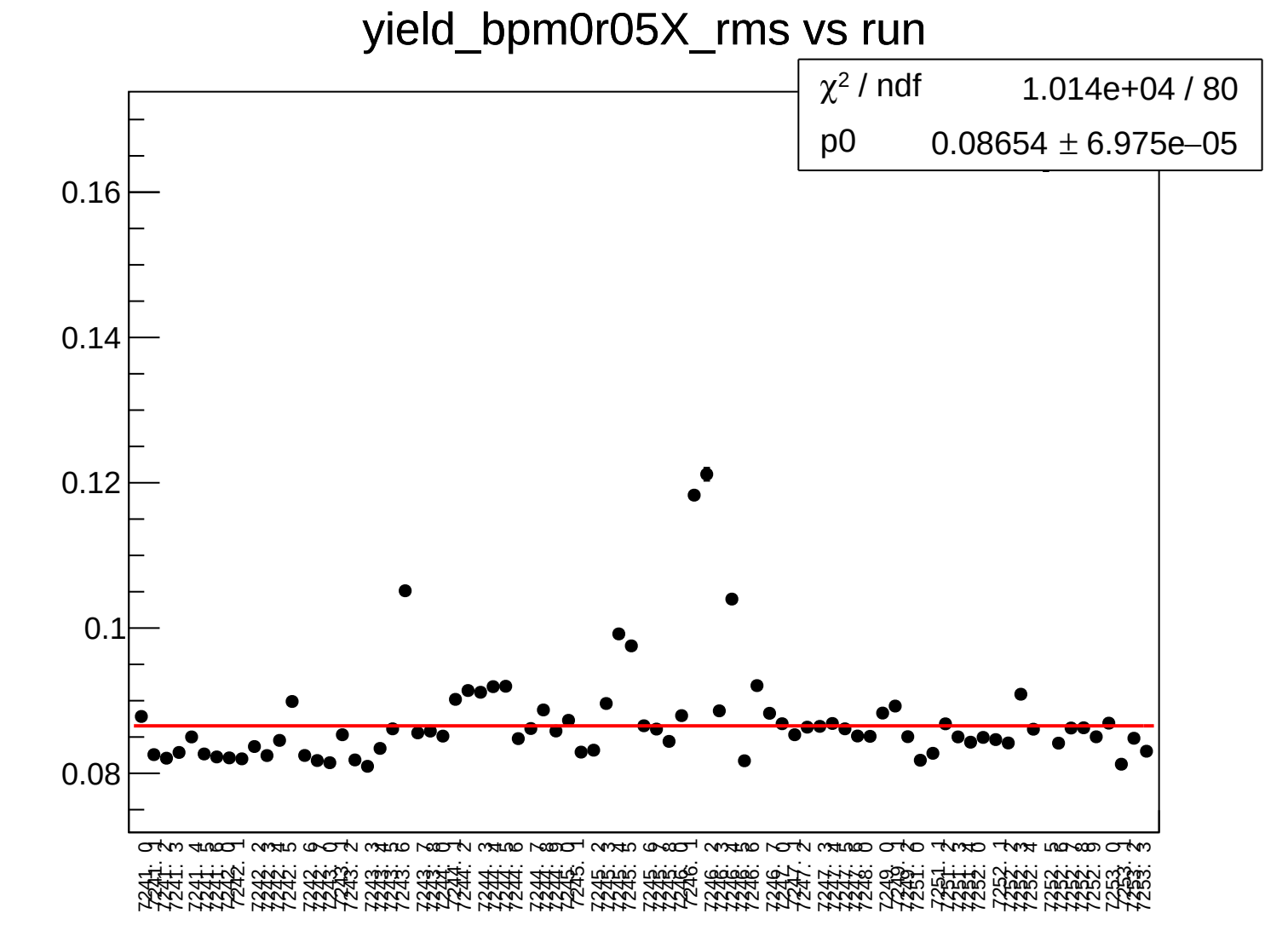

yield_bpm0r03Y_mean vs run
χ² / ndf 5.913e+06 / 80
p0 −0.4957 ± 8.301e−06
−0.46
−0.48
−0.5
−0.52
−0.54
−0.56
pull
Entries 81
Mean −1282
Std Dev 0
600
400
200
0
−200
−400

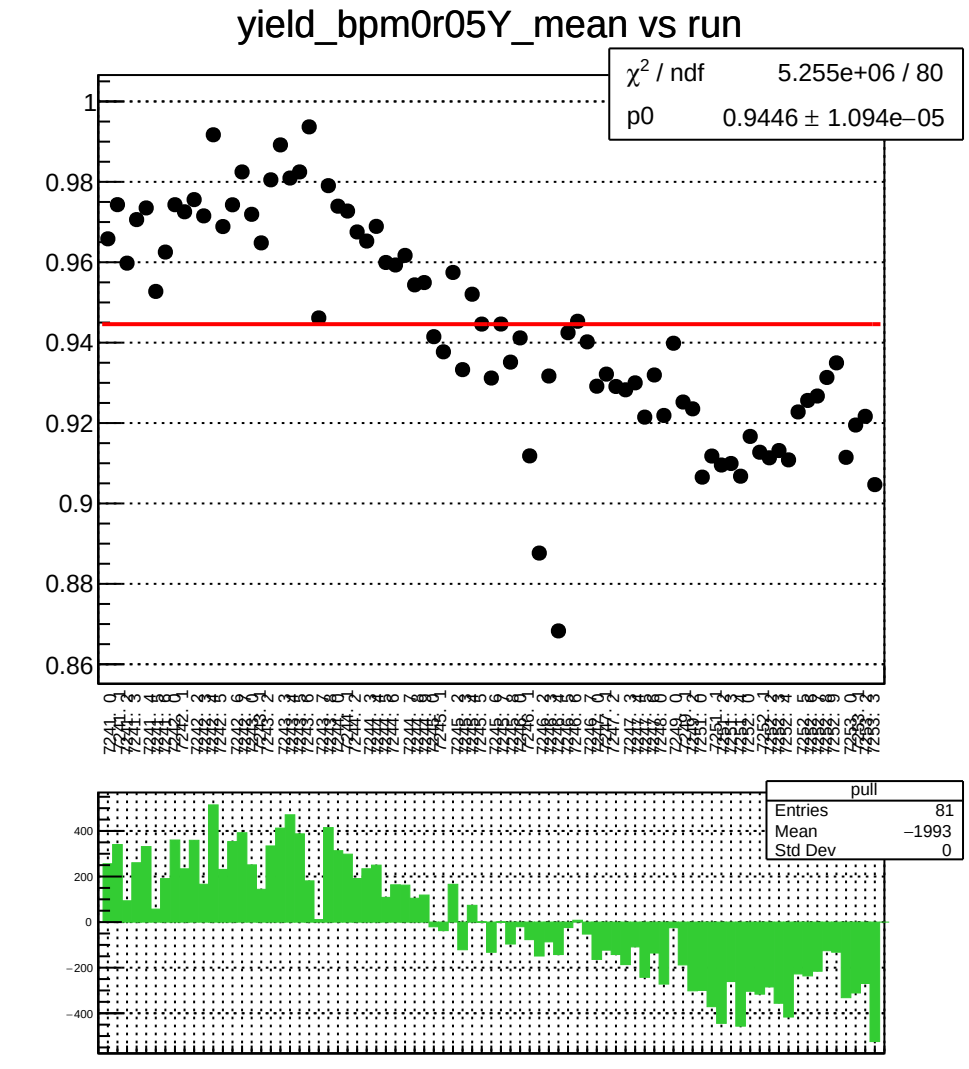

pull1D
Entries 81
Mean −1.18
Std Dev 1.203
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

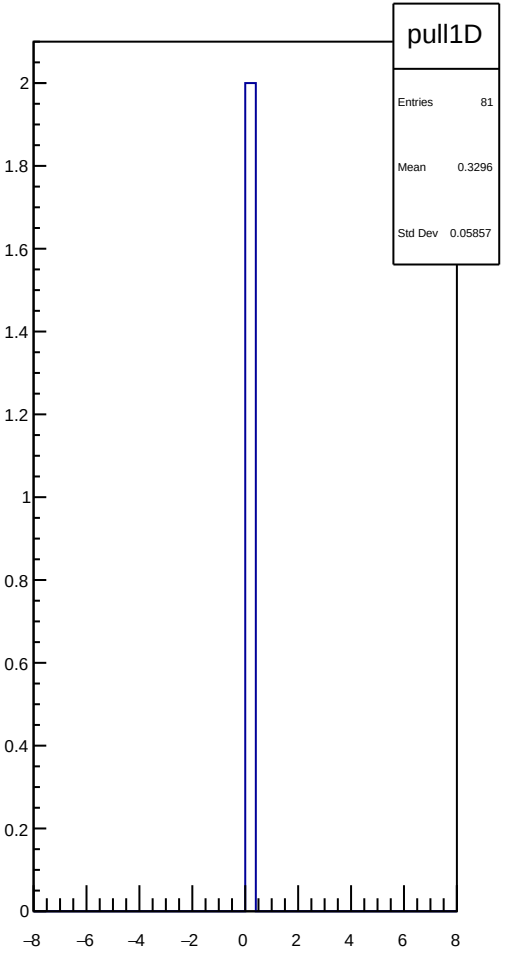

yield_bpm0r03Y_rms vs run
χ² / ndf 9.67e+04 / 80
p0 0.007074 ± 5.87e–06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

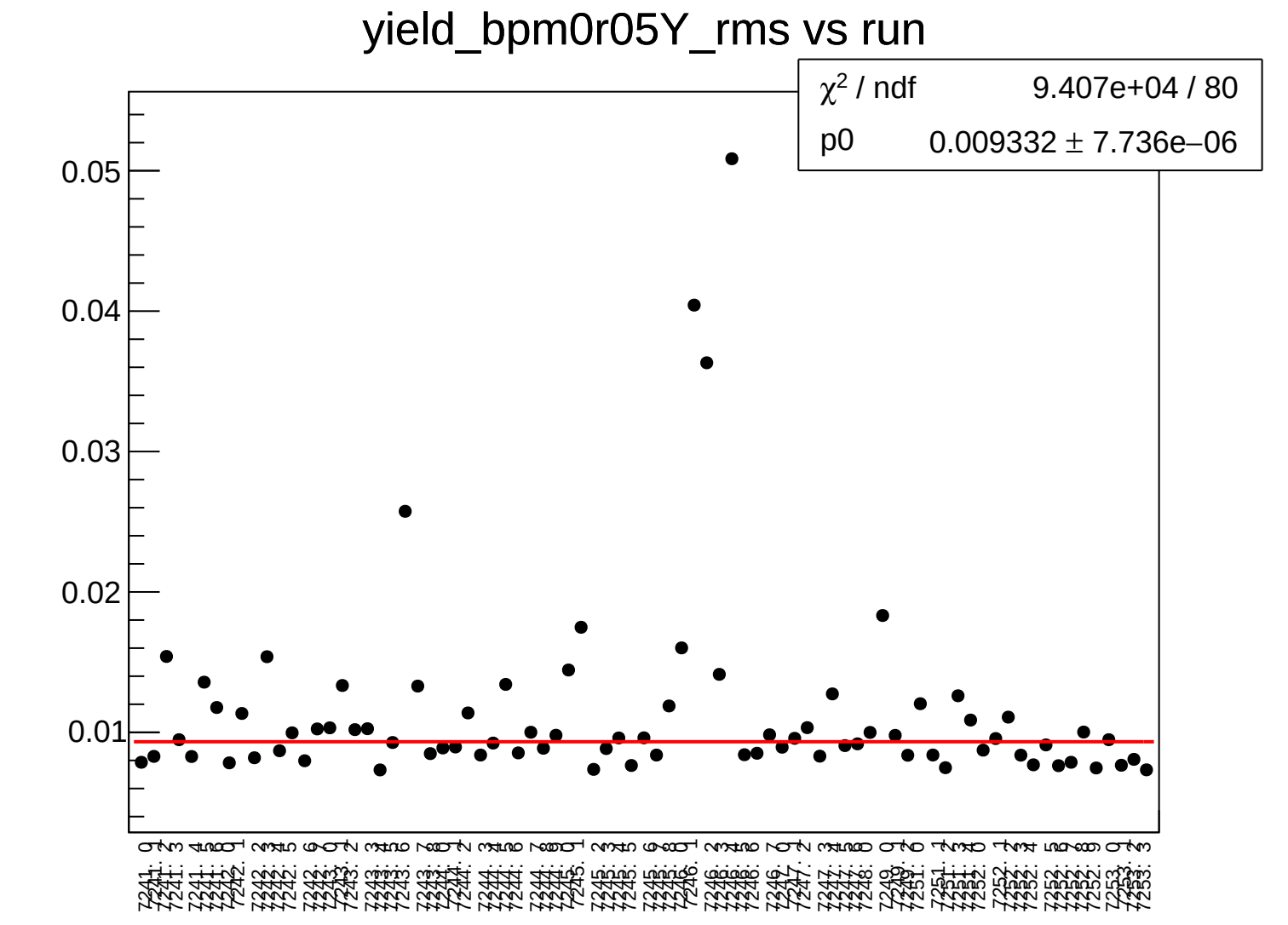

yield_bpm0r05X_mean vs run
χ² / ndf 9.135e+04 / 80
p0 −0.7292 ± 9.865e−05
−0.68
−0.7
−0.72
−0.74
−0.76
−0.78
−0.8
pull
Entries 81
Mean −8328
Std Dev 0
60
40
20
0
−20
−40
−60
−80

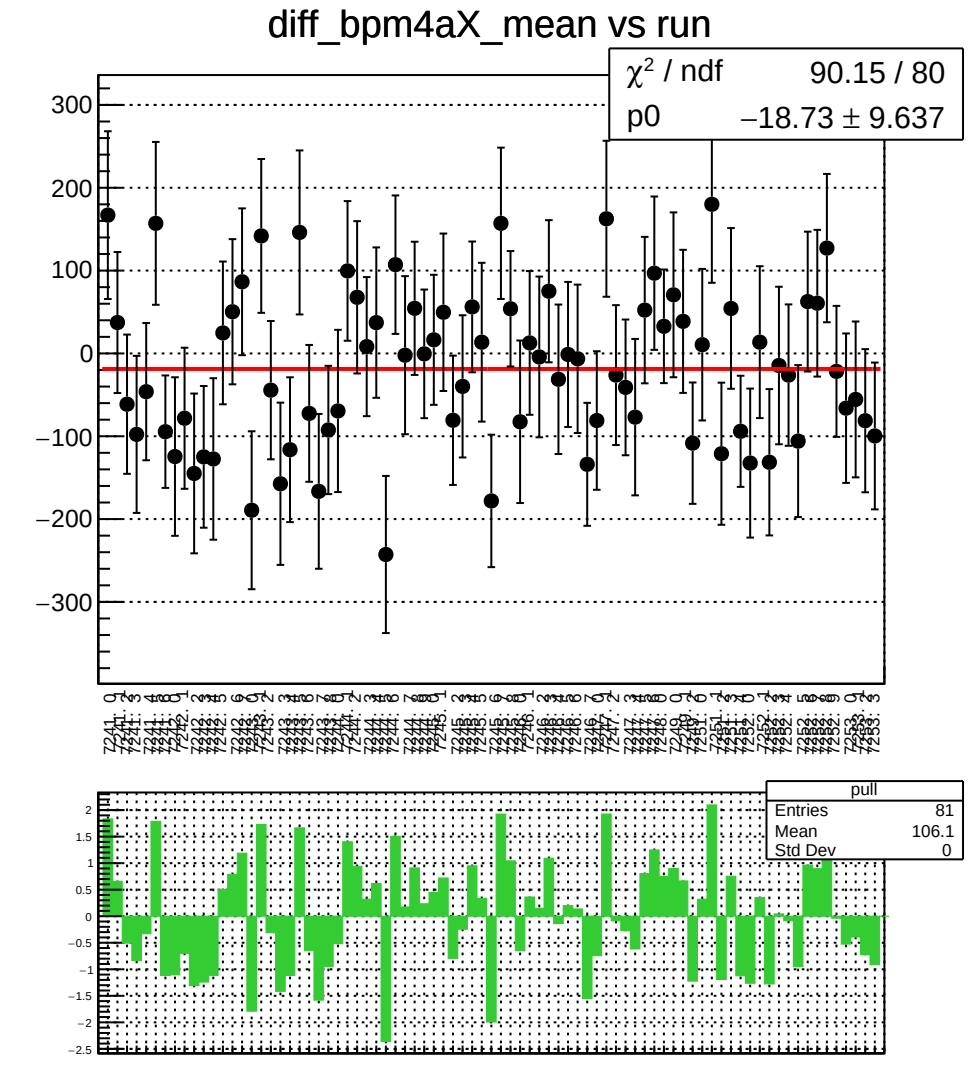

pull1D
Entries 81
Mean 0.703
Std Dev 4.837
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

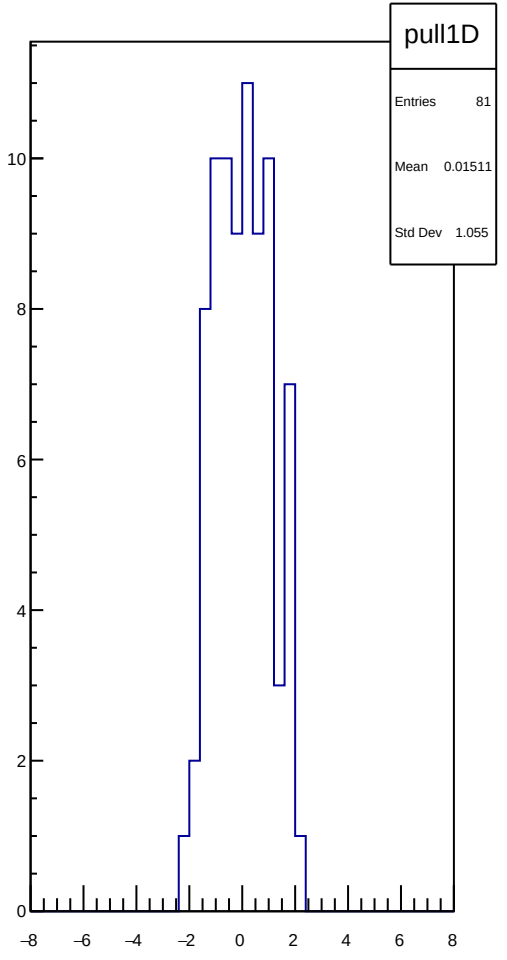

yield_bpm0r05X_rms vs run
χ² / ndf 1.014e+04 / 80
p0 0.08654 ± 6.975e–05
0.16
0.14
0.12
0.1
0.08

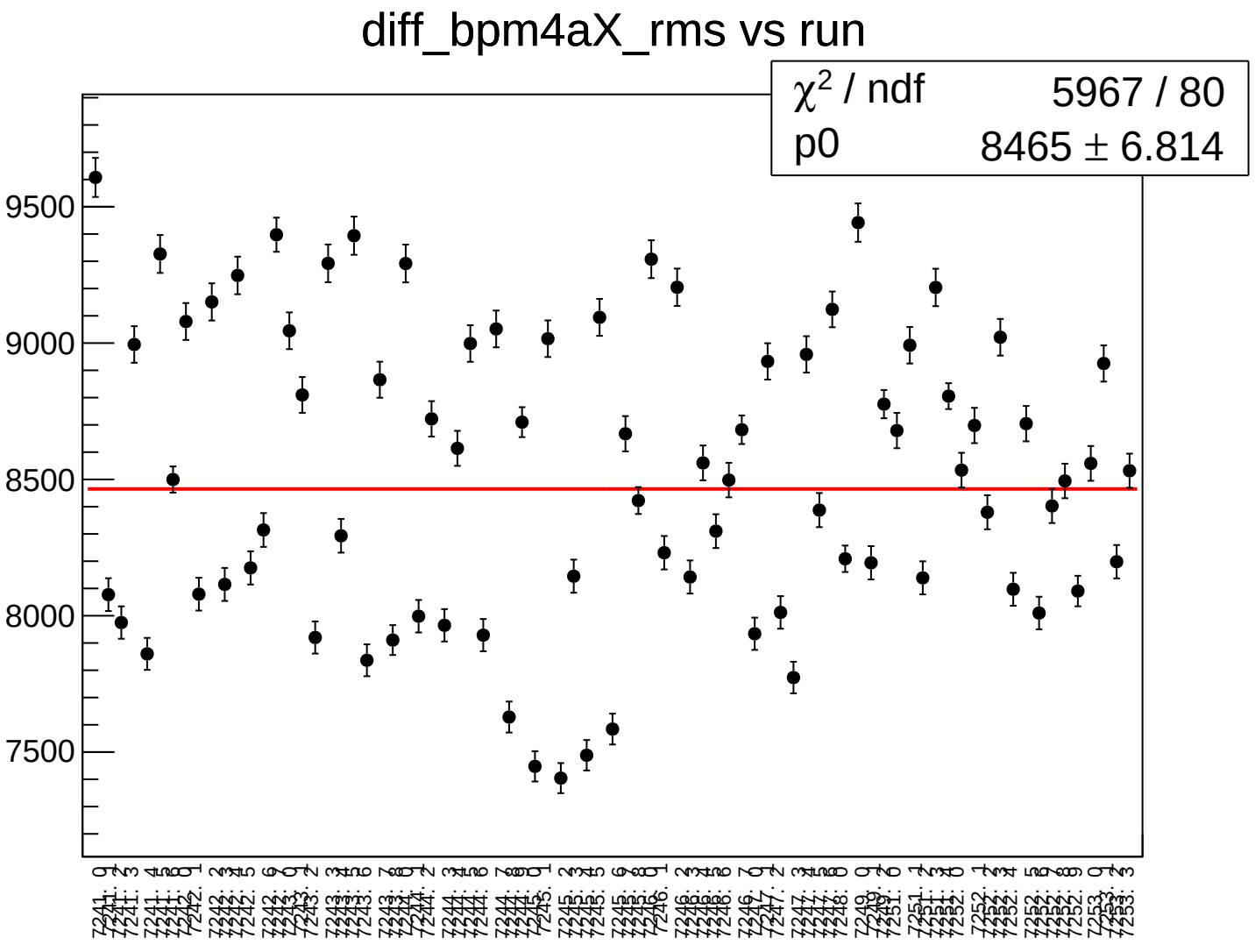

yield_bpm0r05Y_mean vs run
χ² / ndf 5.255e+06 / 80
p0 0.9446 ± 1.094e−05
pull
Entries 81
Mean −1993
Std Dev 0

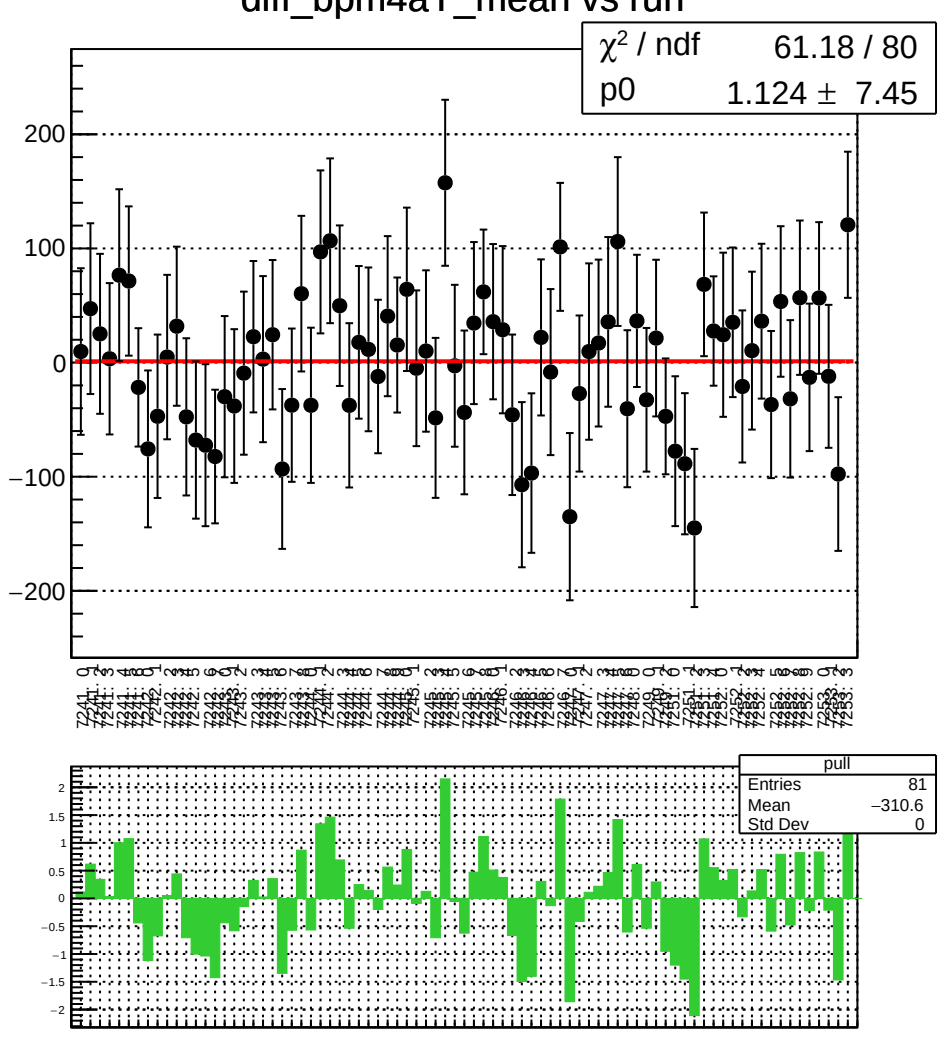

pull1D
Entries 81
Mean 0.3296
Std Dev 0.05857

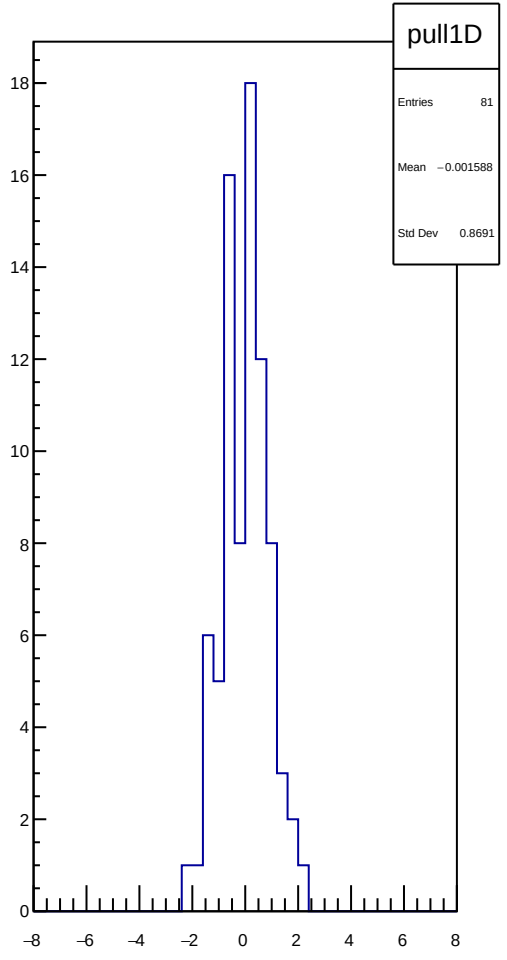

yield_bpm0r05Y_rms vs run
χ^2 / ndf 9.407e+04 / 80
p0 0.009332 ± 7.736e−06
0.05
0.04
0.03
0.02
0.01

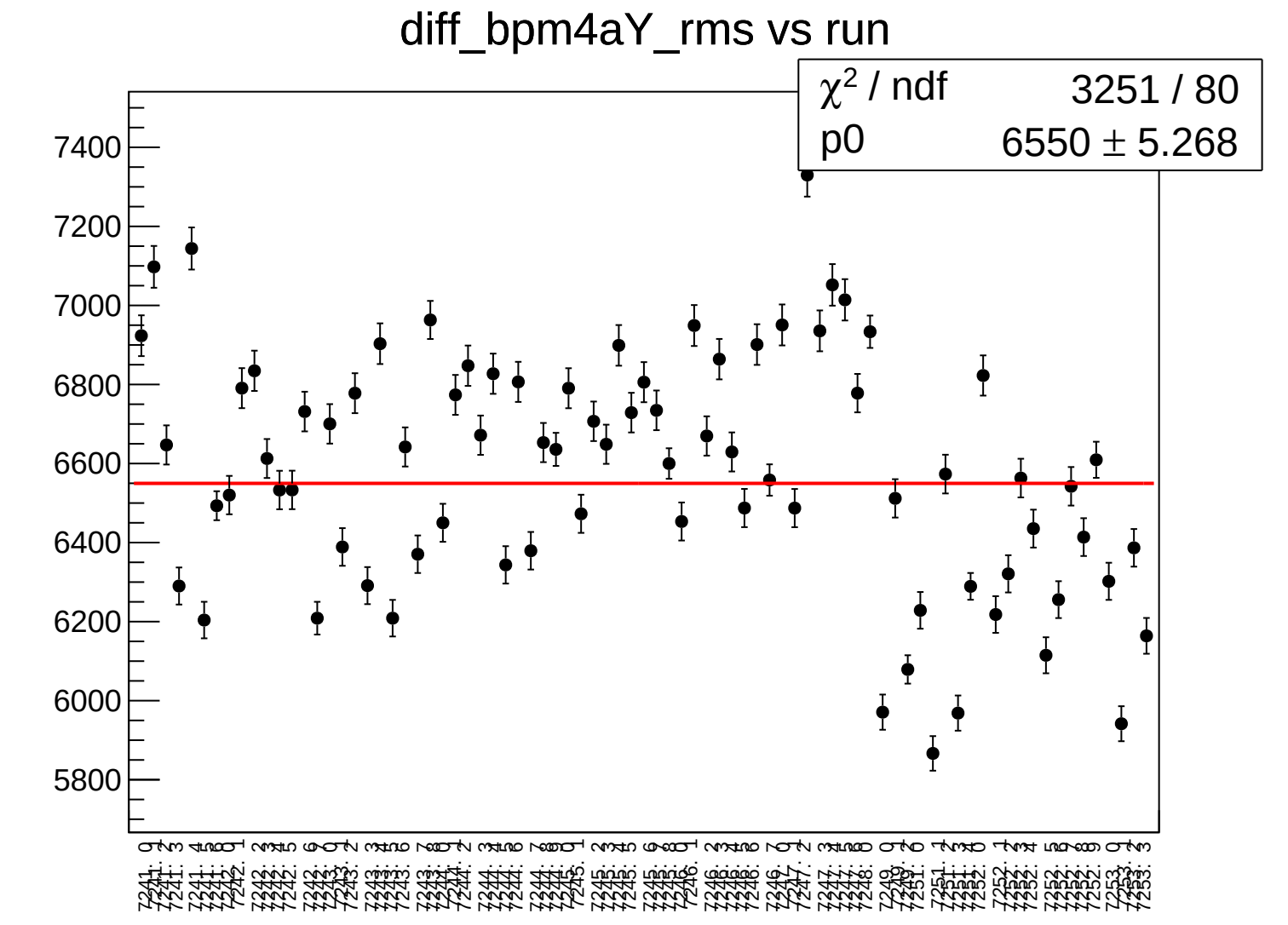

diff_bpm4aX_mean vs run
χ² / ndf 90.15 / 80
p0 −18.73 ± 9.637
pull
Entries 81
Mean 106.1
Std Dev 0

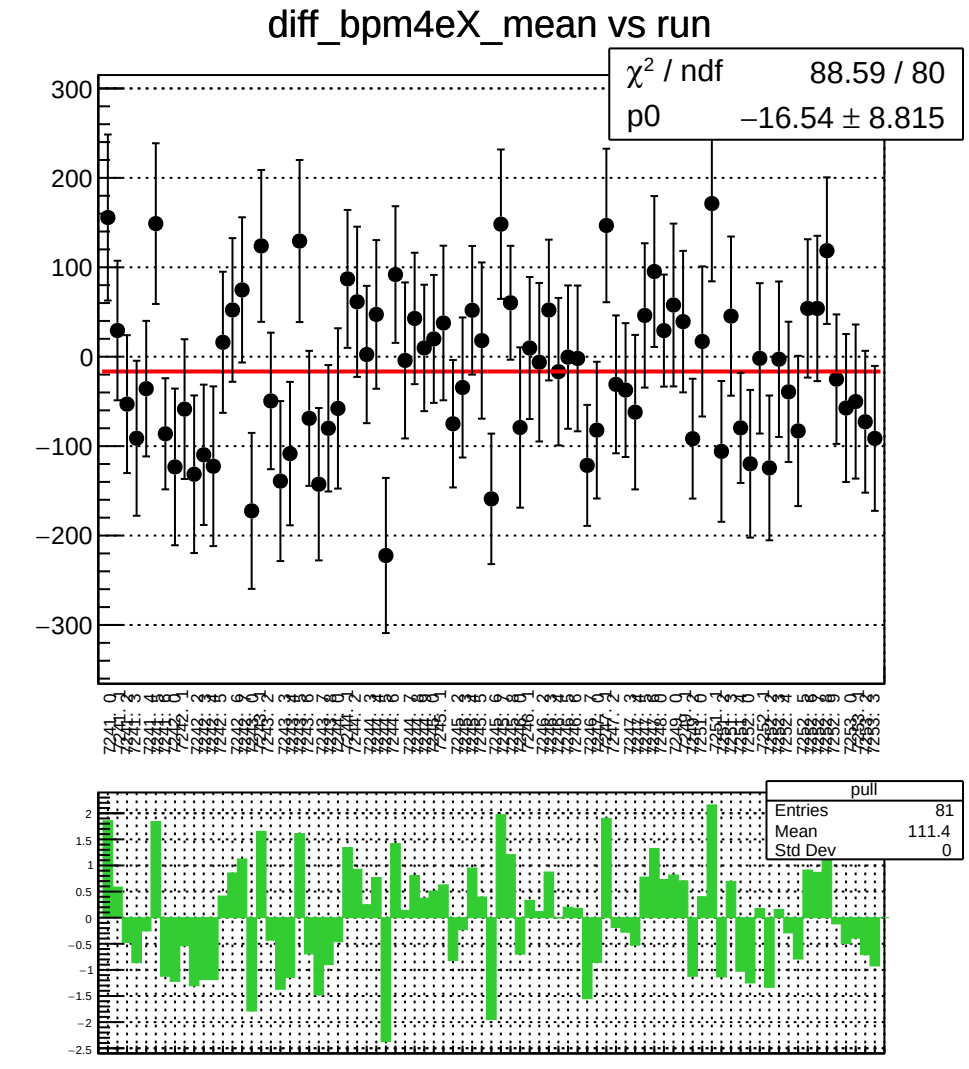

pull1D
Entries 81
Mean 0.01511
Std Dev 1.055

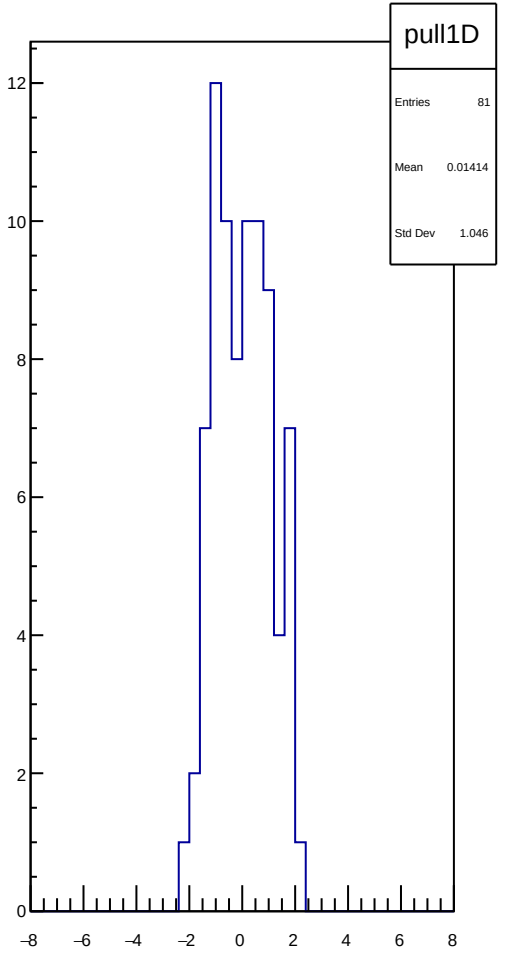

diff_bpm4aX_rms vs run
χ^2 / ndf 5967 / 80
p0 8465 ± 6.814
9500
9000
8500
8000
7500

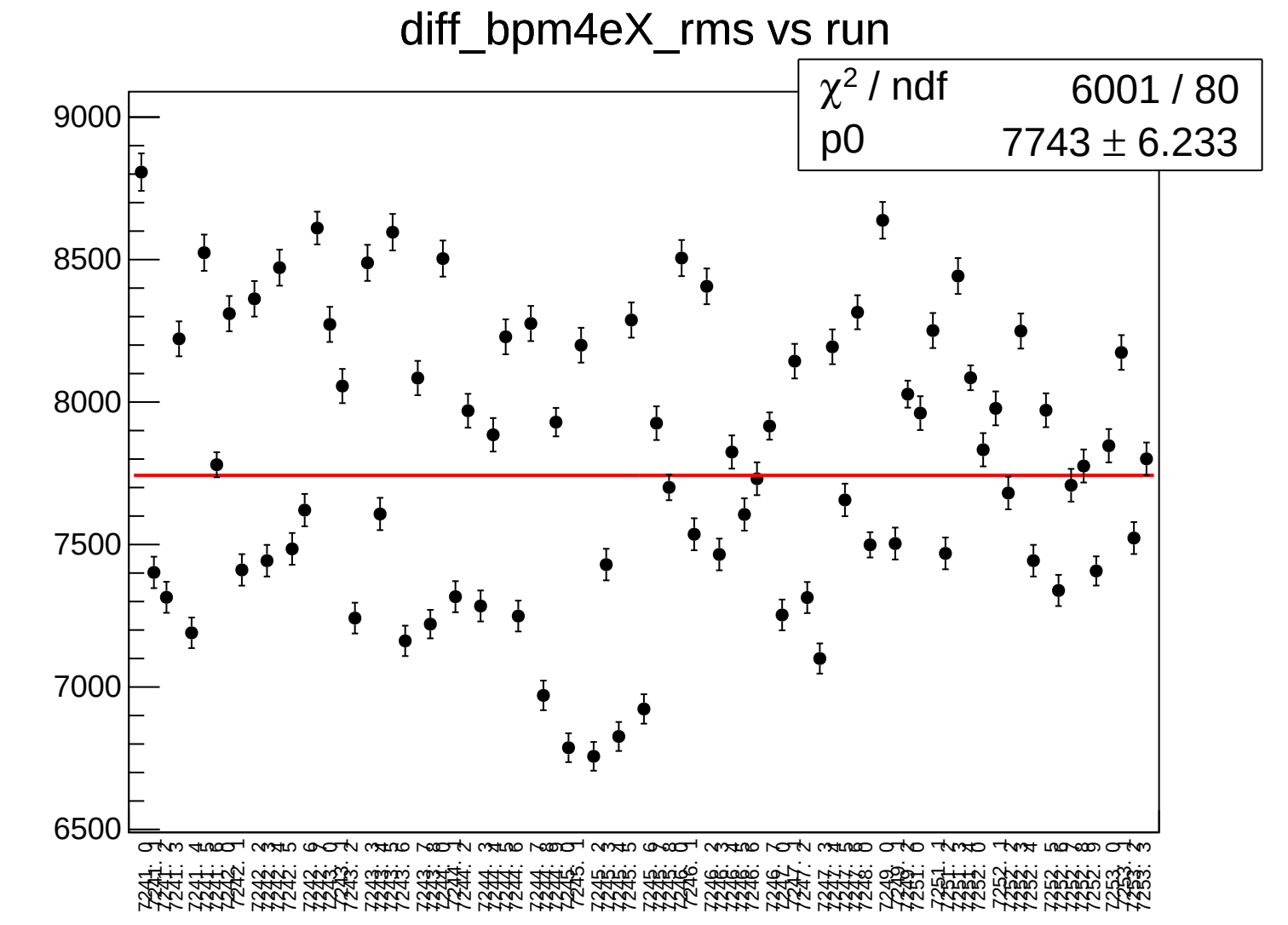

diff_bpm4aY_mean vs run
χ² / ndf 61.18 / 80
p0 1.124 ± 7.45
200
100
0
−100
−200
pull
Entries 81
Mean −310.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

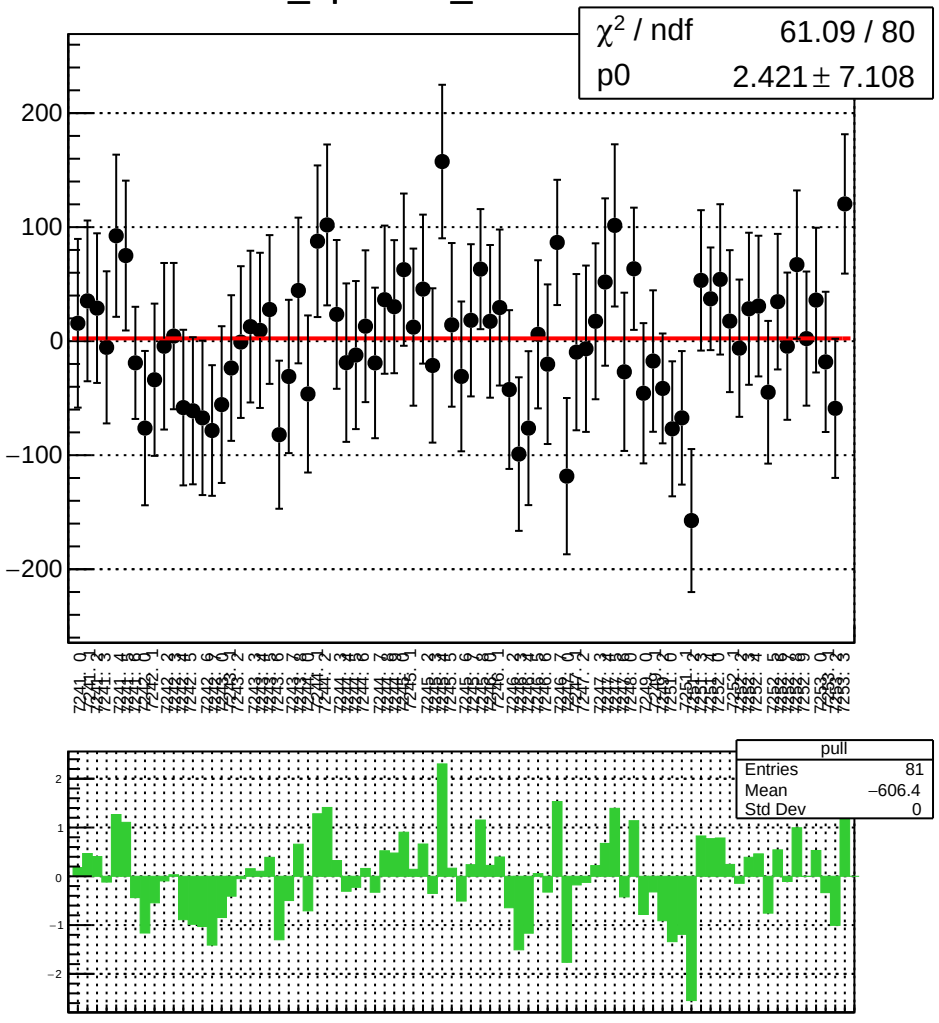

pull1D
Entries 81
Mean −0.001588
Std Dev 0.8691
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

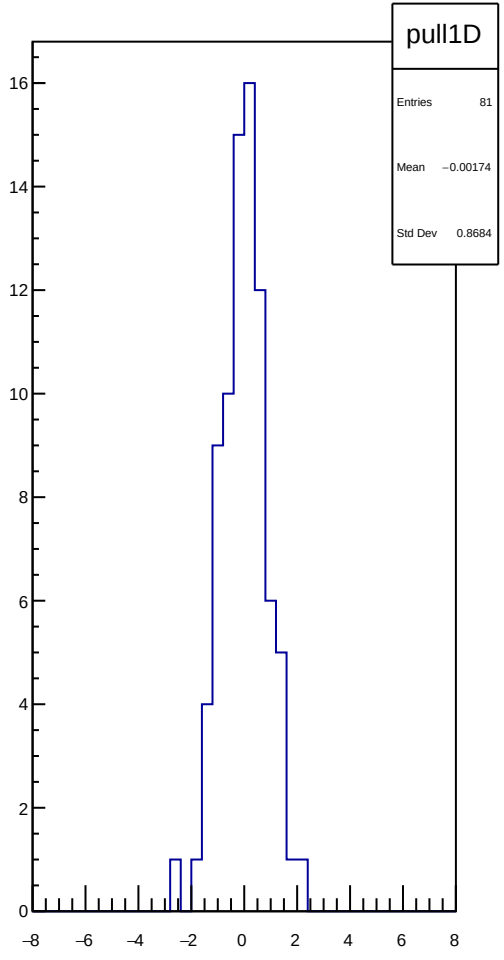

diff_bpm4aY_rms vs run
χ^2 / ndf 3251 / 80
p0 6550 ± 5.268
7400
7200
7000
6800
6600
6400
6200
6000
5800

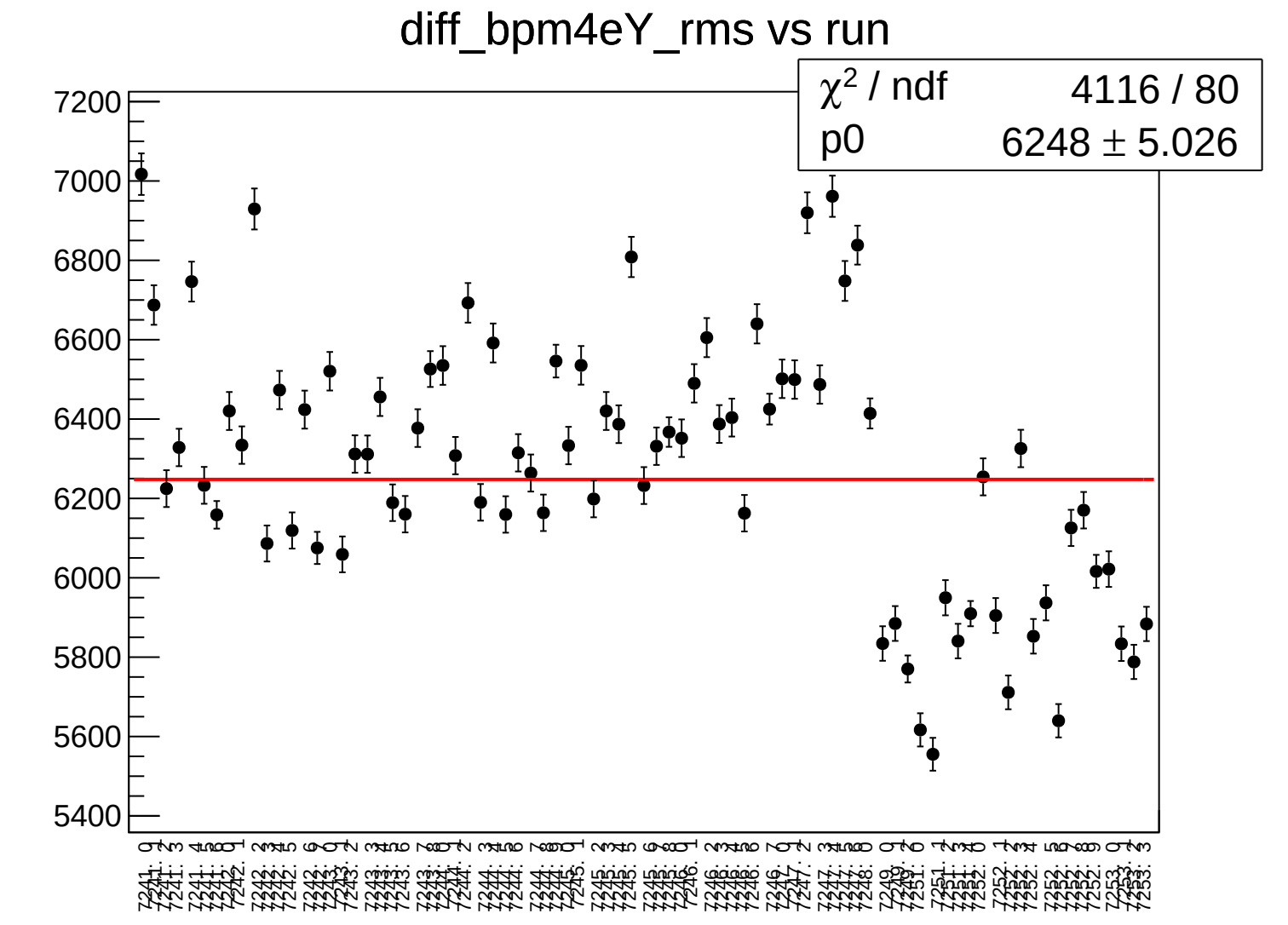

diff_bpm4eX_mean vs run
χ² / ndf 88.59 / 80
p0 −16.54 ± 8.815
pull
Entries 81
Mean 111.4
Std Dev 0

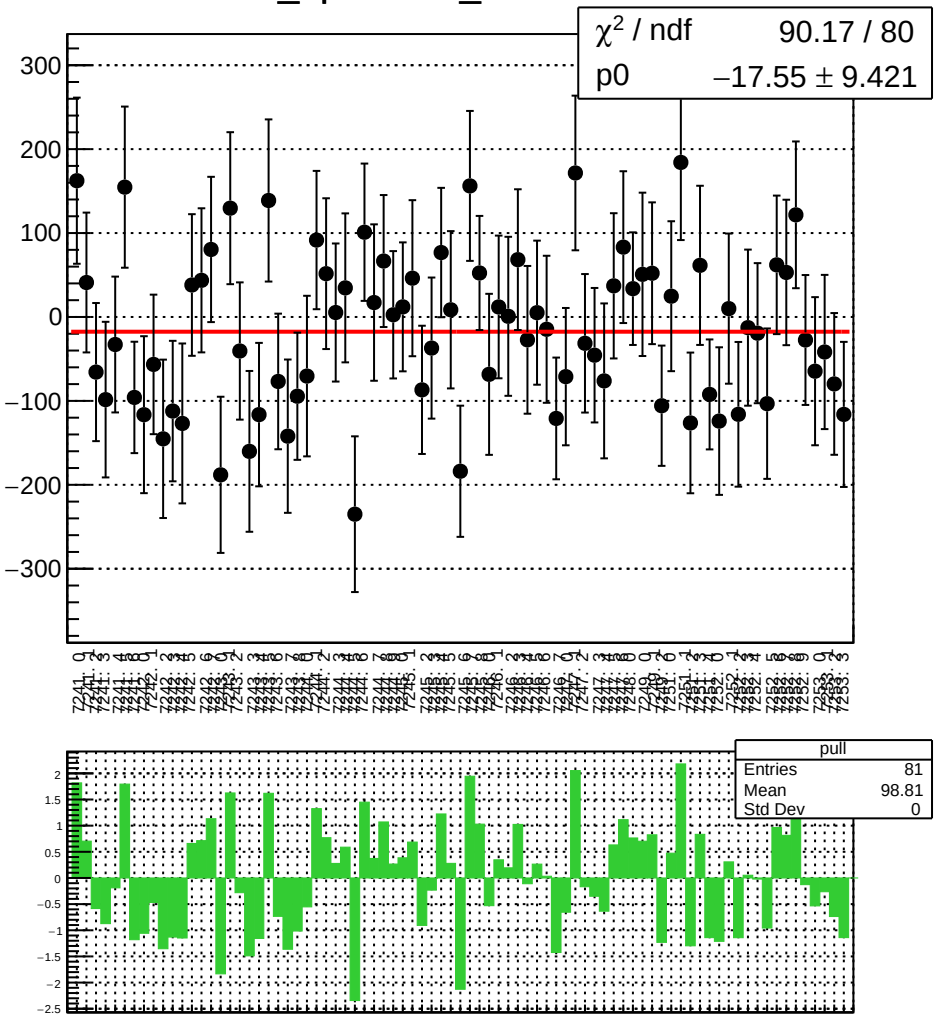

pull1D
Entries 81
Mean 0.01414
Std Dev 1.046

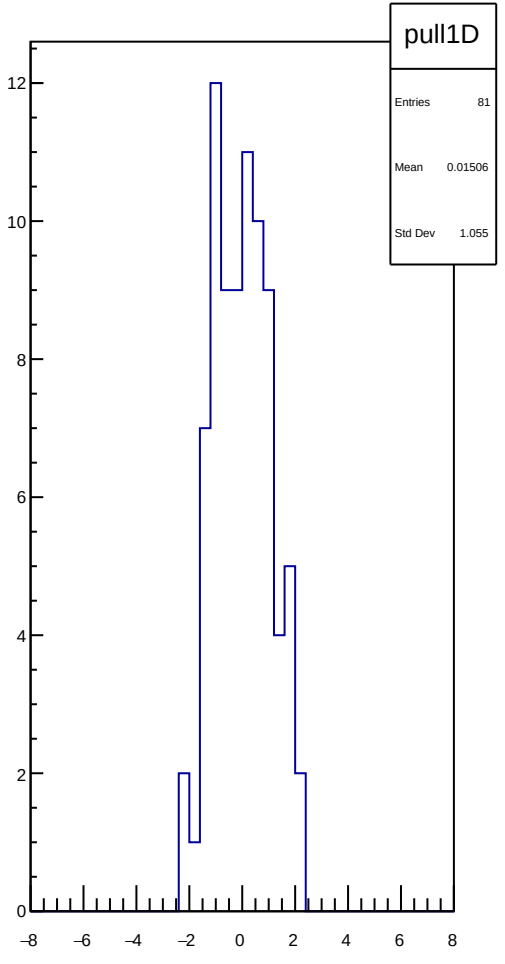

diff_bpm4eX_rms vs run
χ² / ndf 6001 / 80
p0 7743 ± 6.233
9000
8500
8000
7500
7000
6500

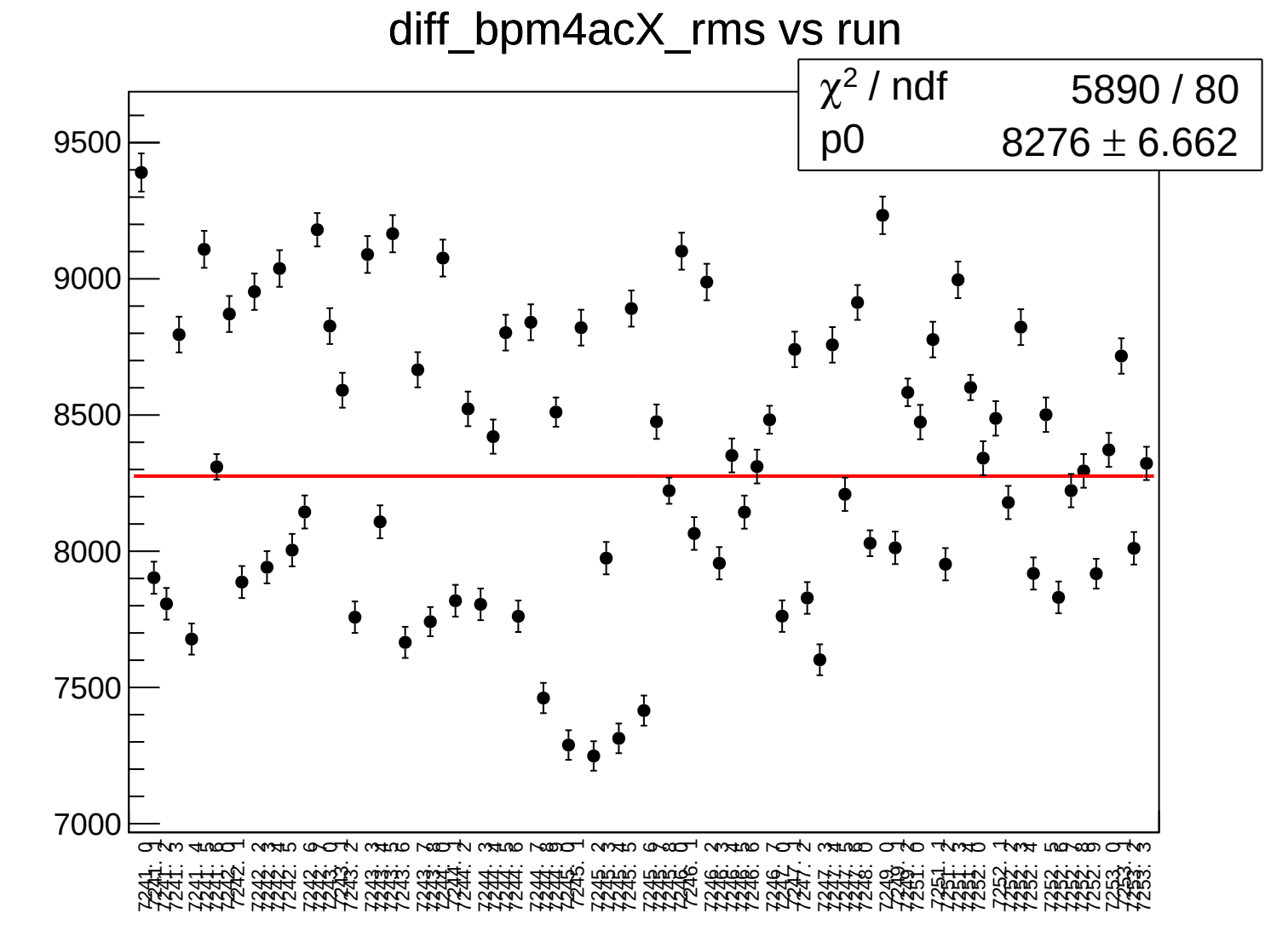

diff_bpm4eY_mean vs run
χ² / ndf 61.09 / 80
p0 2.421 ± 7.108
200
100
0
−100
−200
pull
Entries 81
Mean −606.4
Std Dev 0
2
1
0
−1
−2

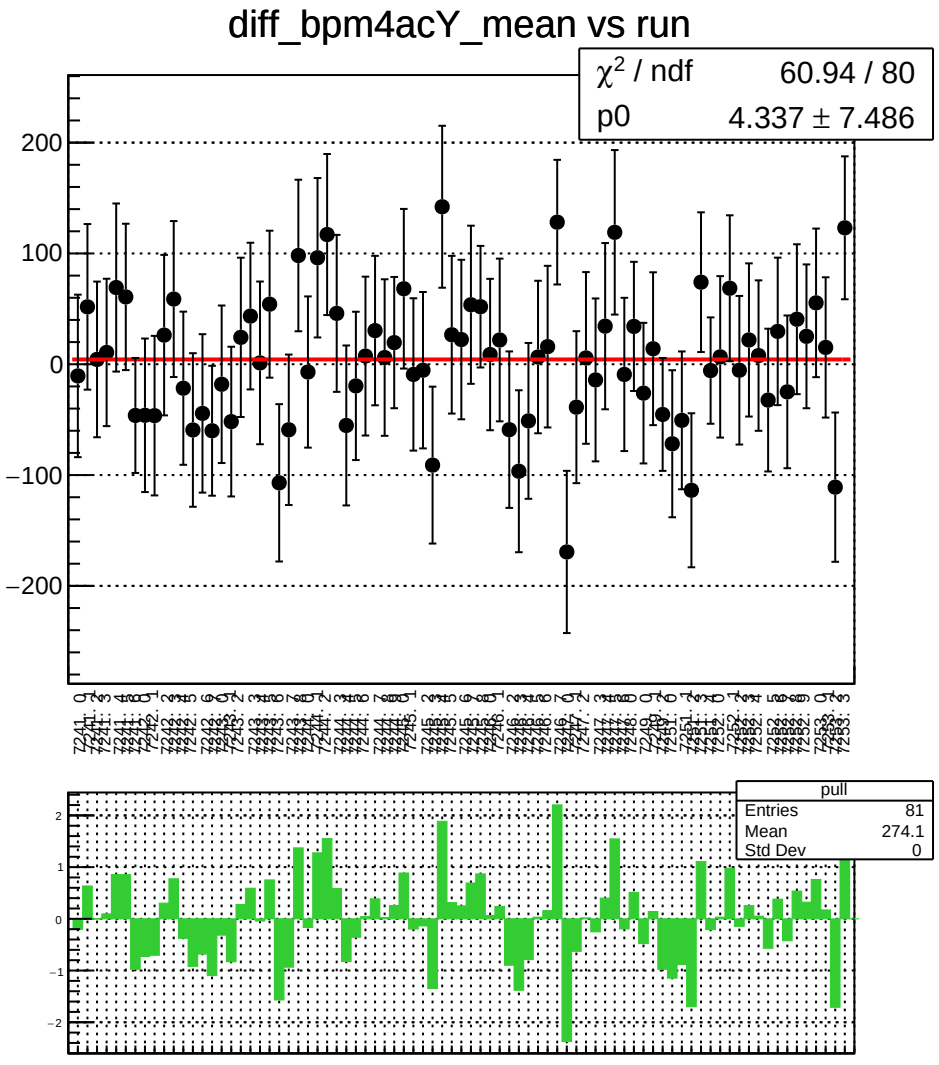

pull1D
Entries 81
Mean −0.00174
Std Dev 0.8684
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

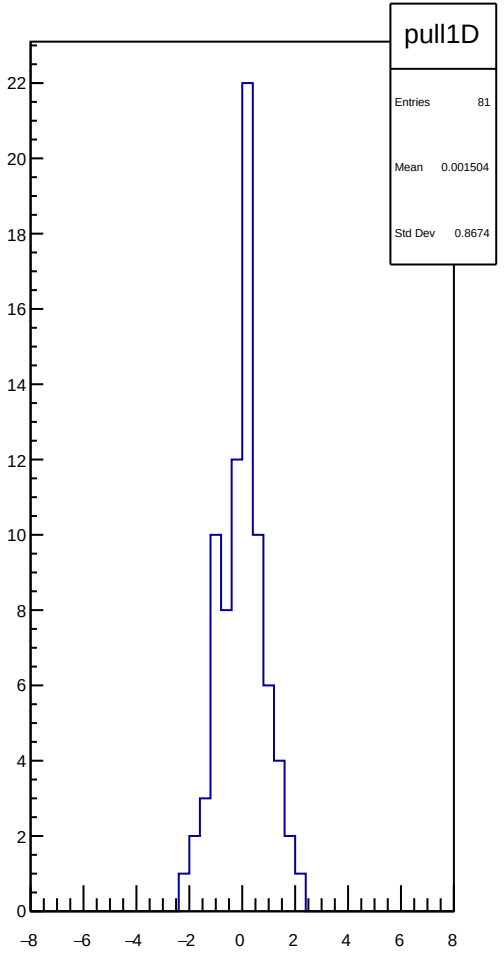

diff_bpm4eY_rms vs run
χ² / ndf 4116 / 80
p0 6248 ± 5.026
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400

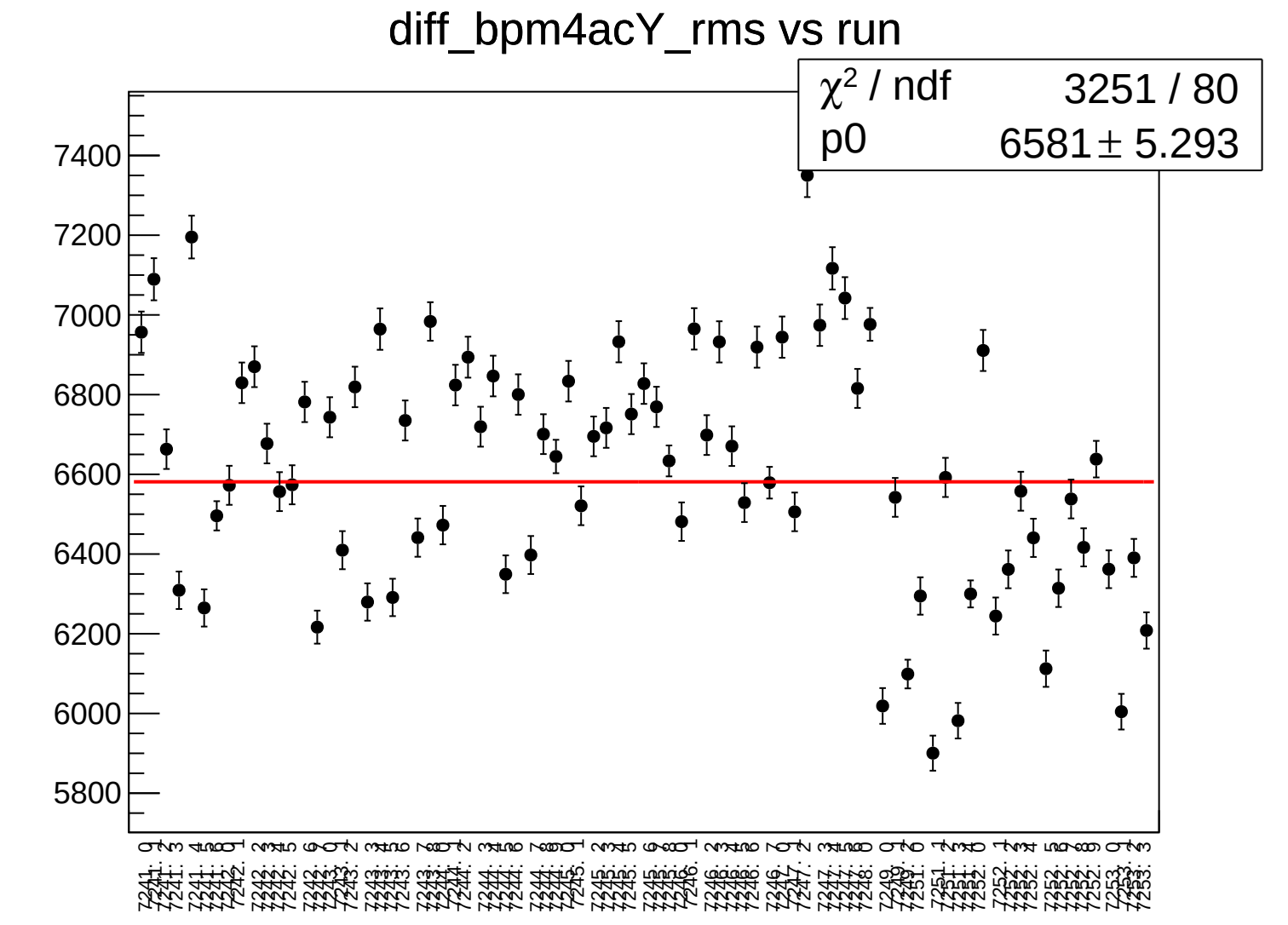

diff_bpm4acX_mean vs run
χ^2 / ndf 90.17 / 80
p0 −17.55 ± 9.421
pull
Entries 81
Mean 98.81
Std Dev 0

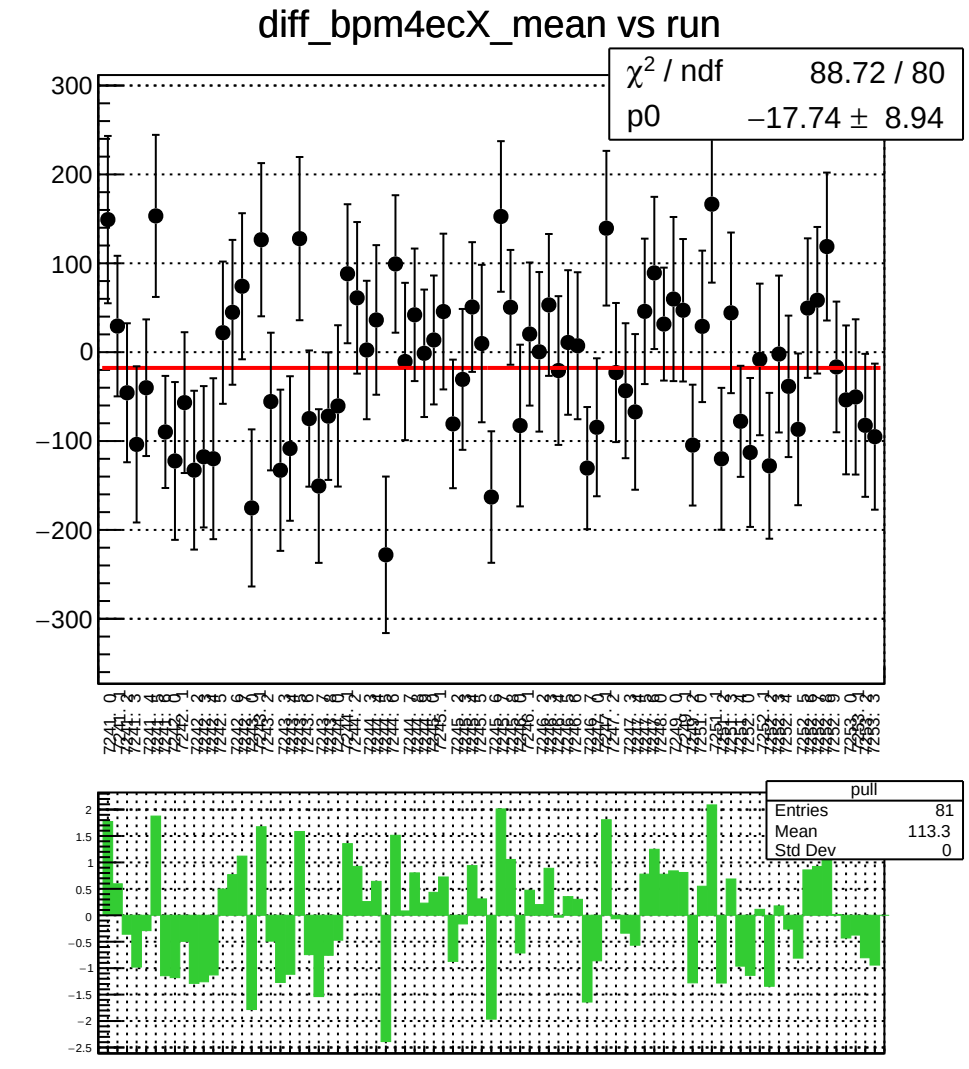

pull1D
Entries 81
Mean 0.01506
Std Dev 1.055

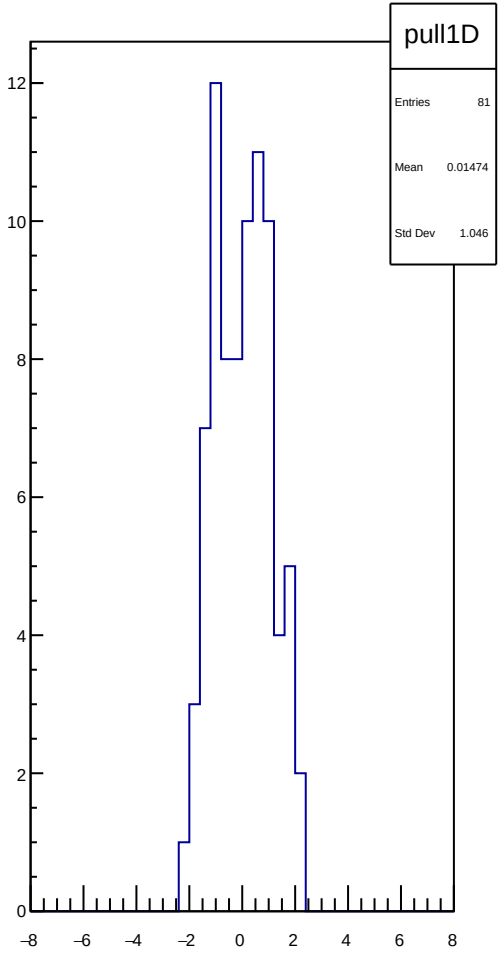

diff_bpm4acX_rms vs run
χ² / ndf 5890 / 80
p0 8276 ± 6.662
9500
9000
8500
8000
7500
7000

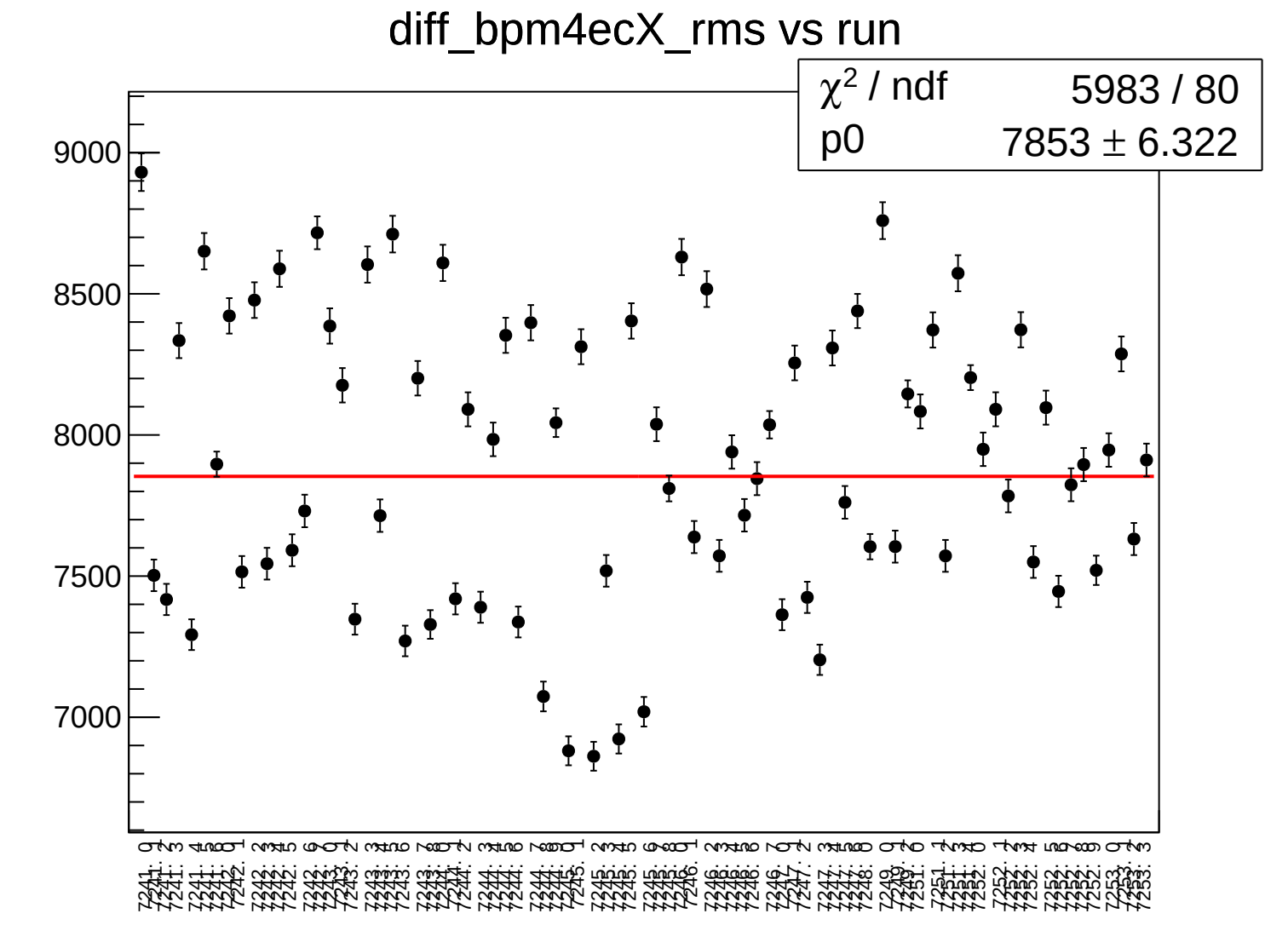

diff_bpm4acY_mean vs run
χ^2 / ndf 60.94 / 80
p0 4.337 ± 7.486
200
100
0
−100
−200
pull
Entries 81
Mean 274.1
Std Dev 0
2
1
0
−1
−2

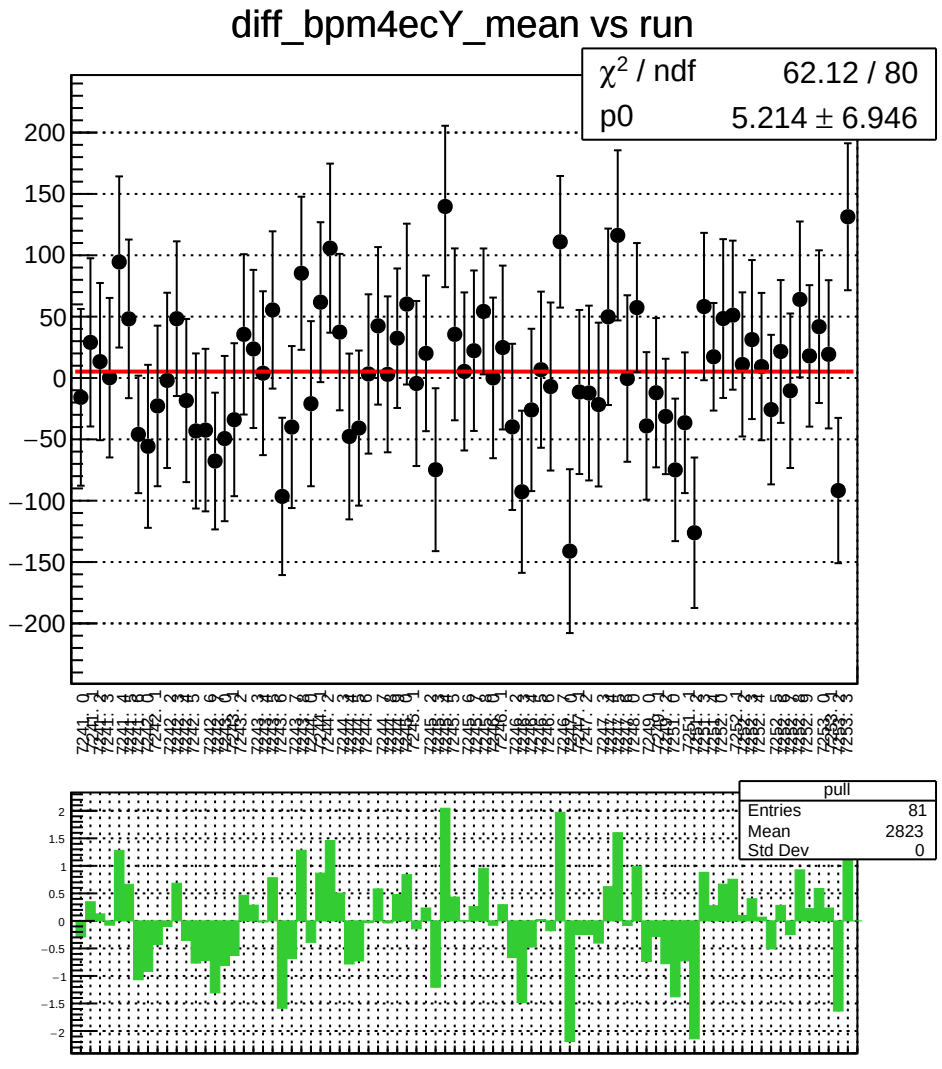

pull1D
Entries 81
Mean 0.001504
Std Dev 0.8674
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

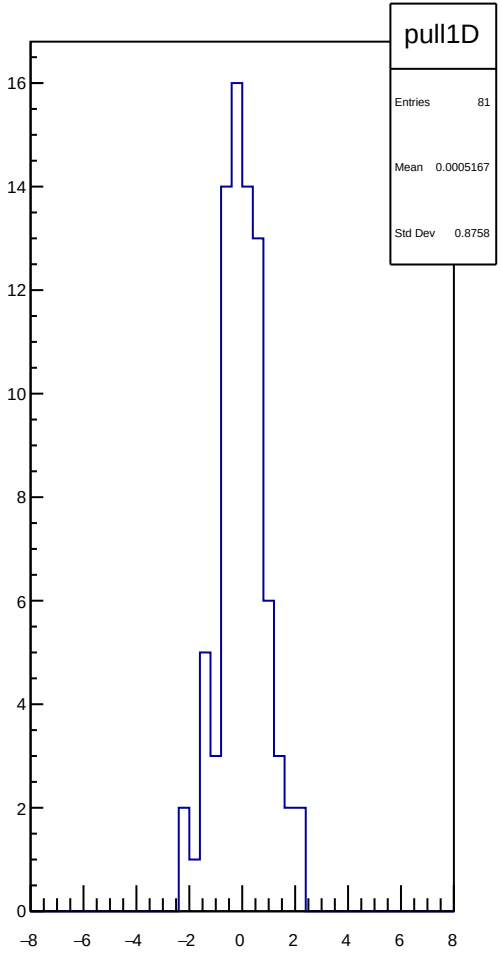

diff_bpm4acY_rms vs run
χ² / ndf 3251 / 80
p0 6581 ± 5.293
7400
7200
7000
6800
6600
6400
6200
6000
5800

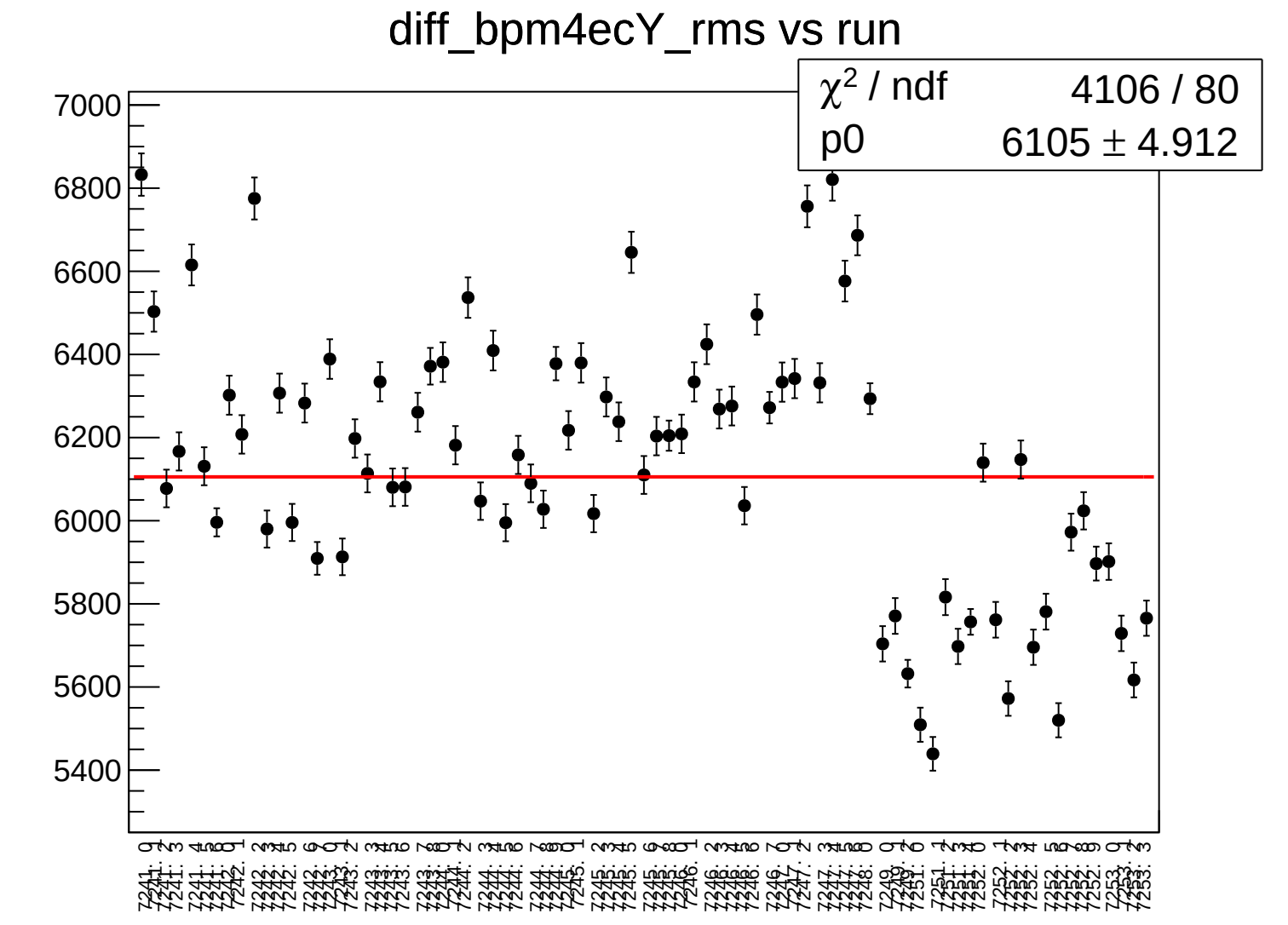

diff_bpm4ecX_mean vs run
χ² / ndf 88.72 / 80
p0 −17.74 ± 8.94
pull
Entries 81
Mean 113.3
Std Dev 0

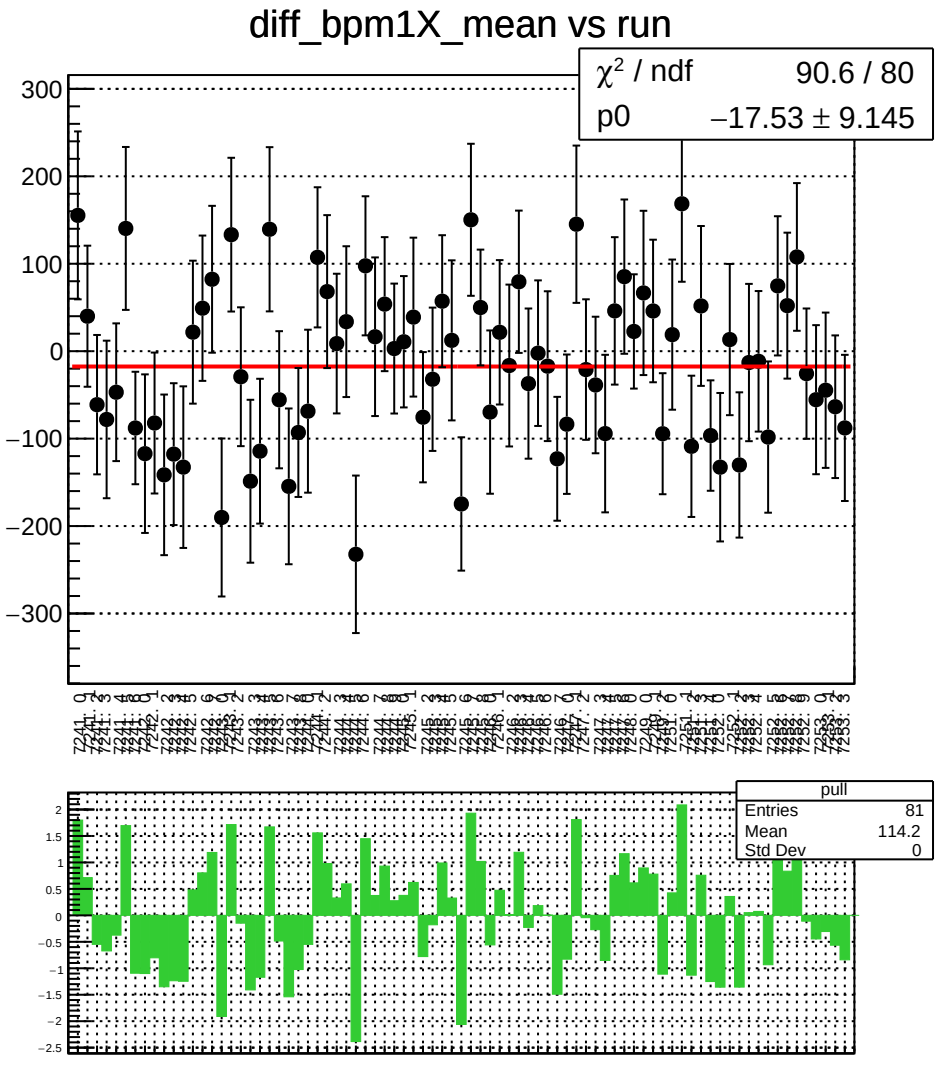

pull1D
Entries 81
Mean 0.01474
Std Dev 1.046

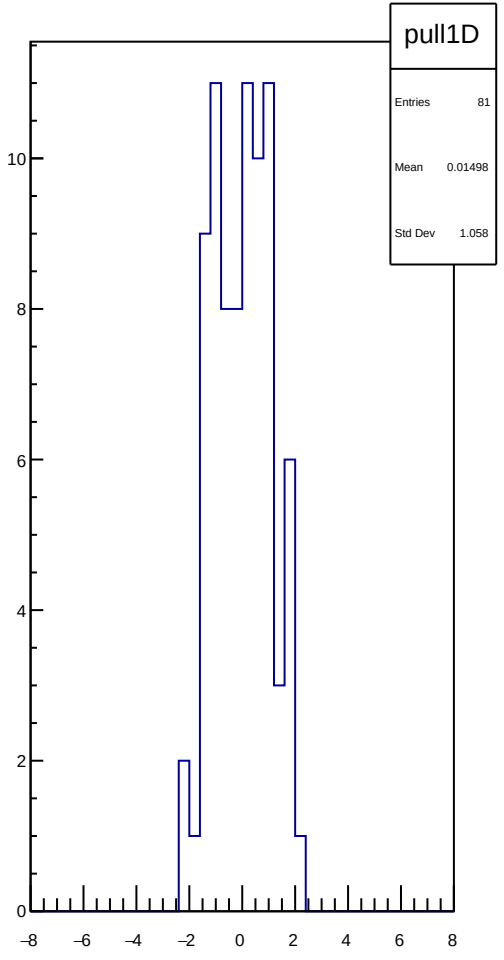

diff_bpm4ecX_rms vs run
χ^2 / ndf 5983 / 80
p0 7853 ± 6.322
9000
8500
8000
7500
7000

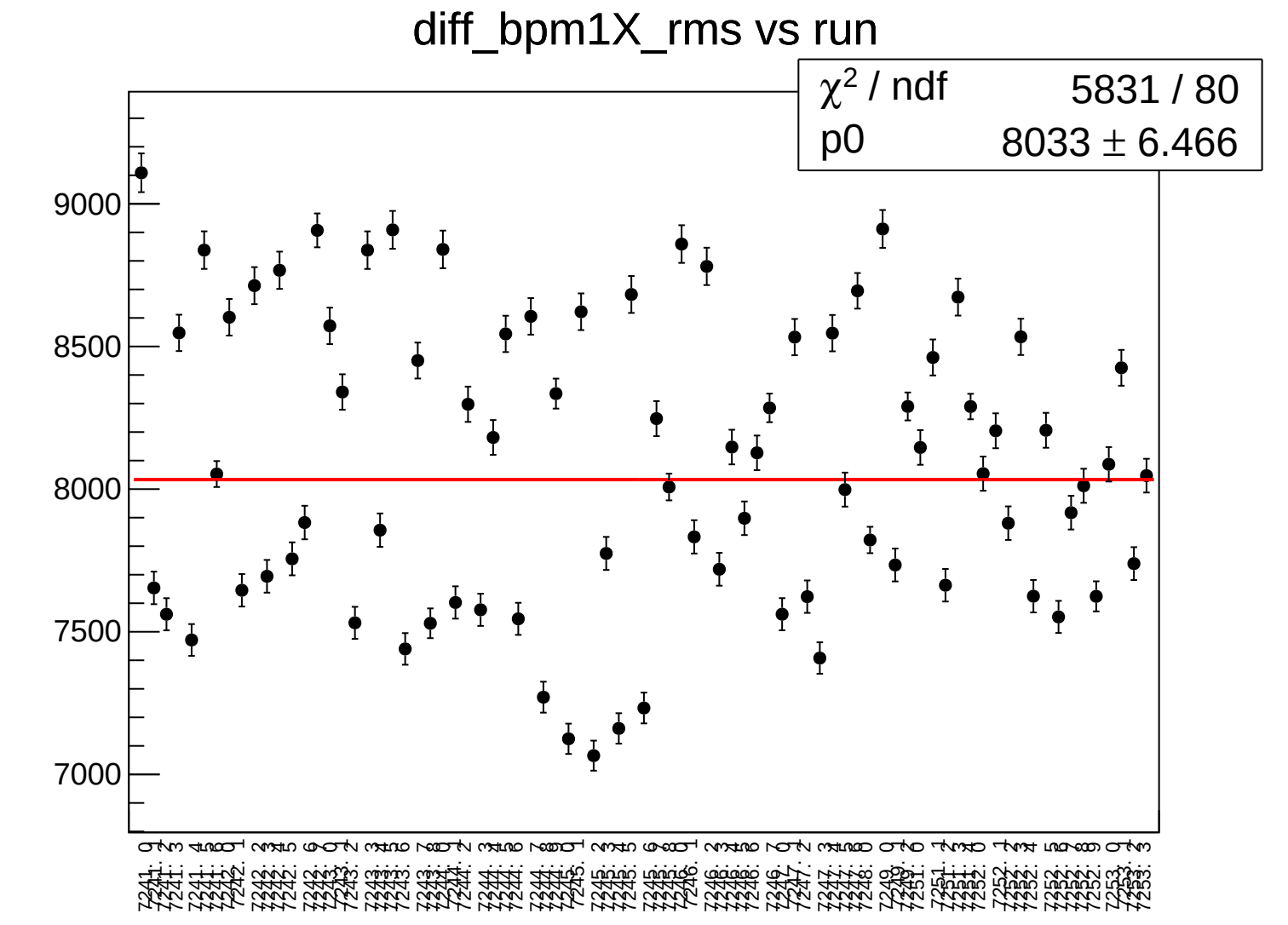

diff_bpm4ecY_mean vs run
χ² / ndf 62.12 / 80
p0 5.214 ± 6.946
pull
Entries 81
Mean 2823
Std Dev 0

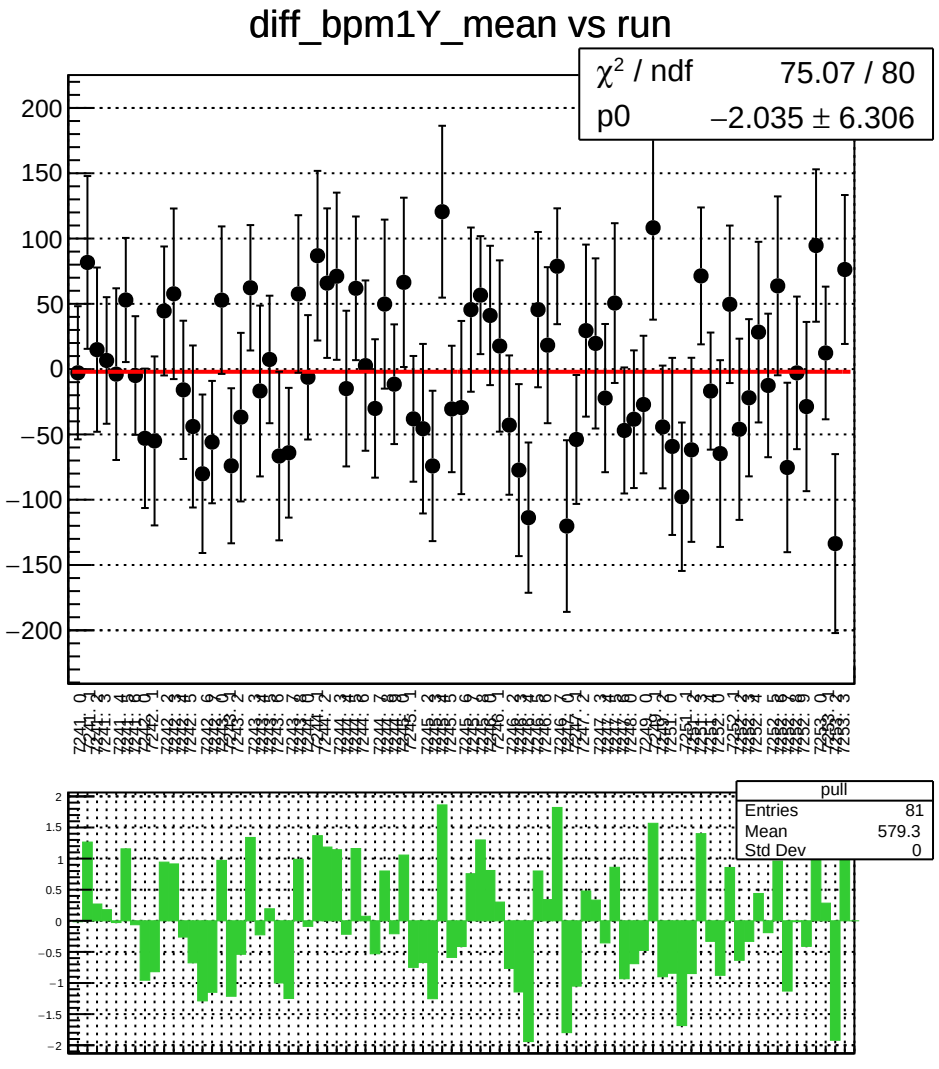

pull1D
Entries 81
Mean 0.0005167
Std Dev 0.8758

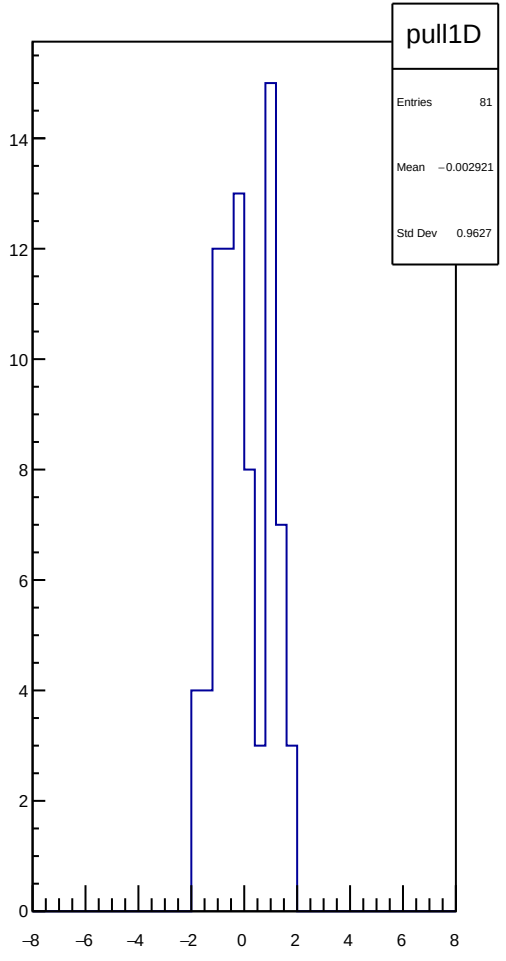

diff_bpm4ecY_rms vs run
χ² / ndf 4106 / 80
p0 6105 ± 4.912
7000
6800
6600
6400
6200
6000
5800
5600
5400

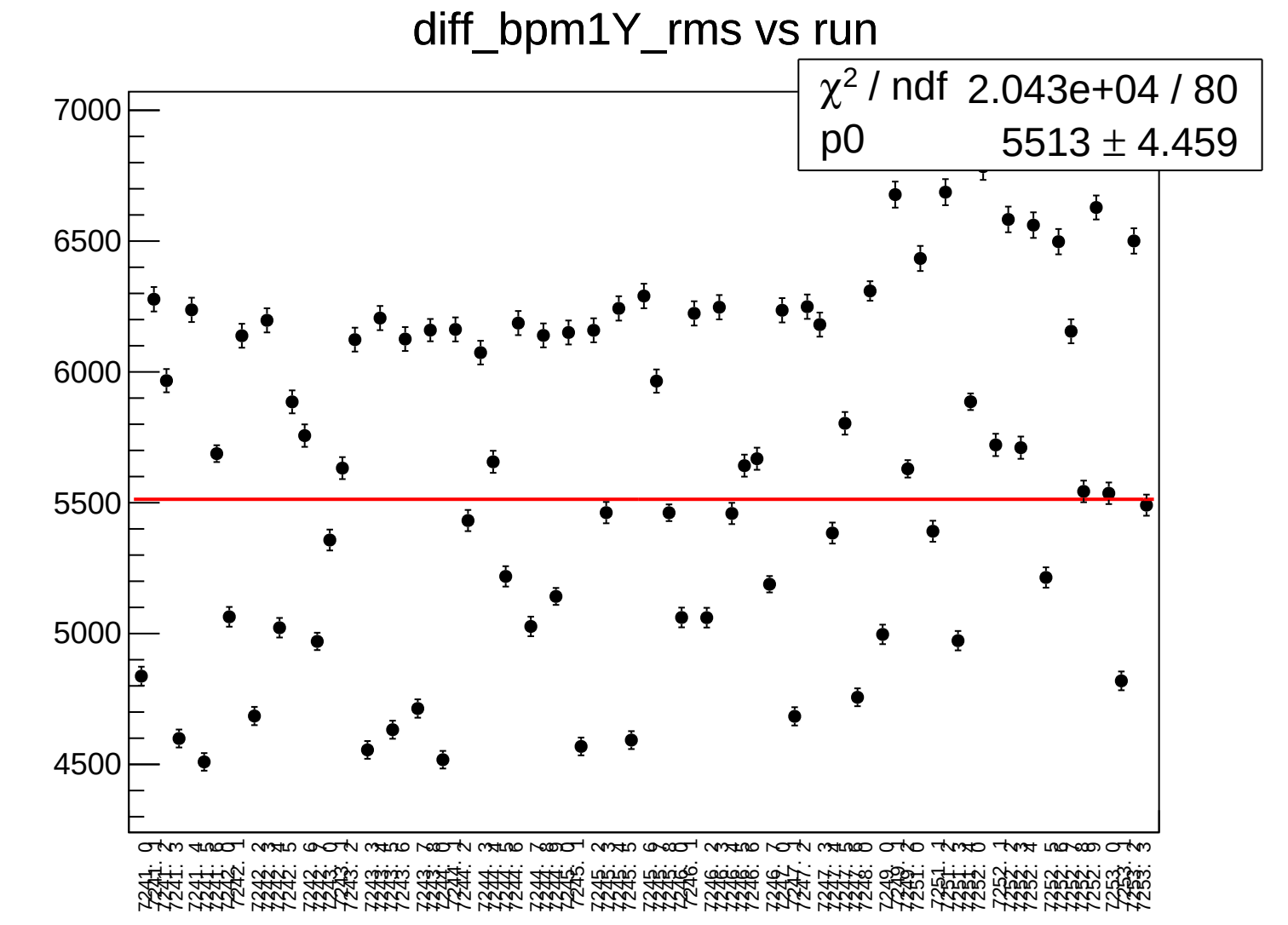

diff_bpm1X_mean vs run
χ² / ndf 90.6 / 80
p0 −17.53 ± 9.145
pull
Entries 81
Mean 114.2
Std Dev 0

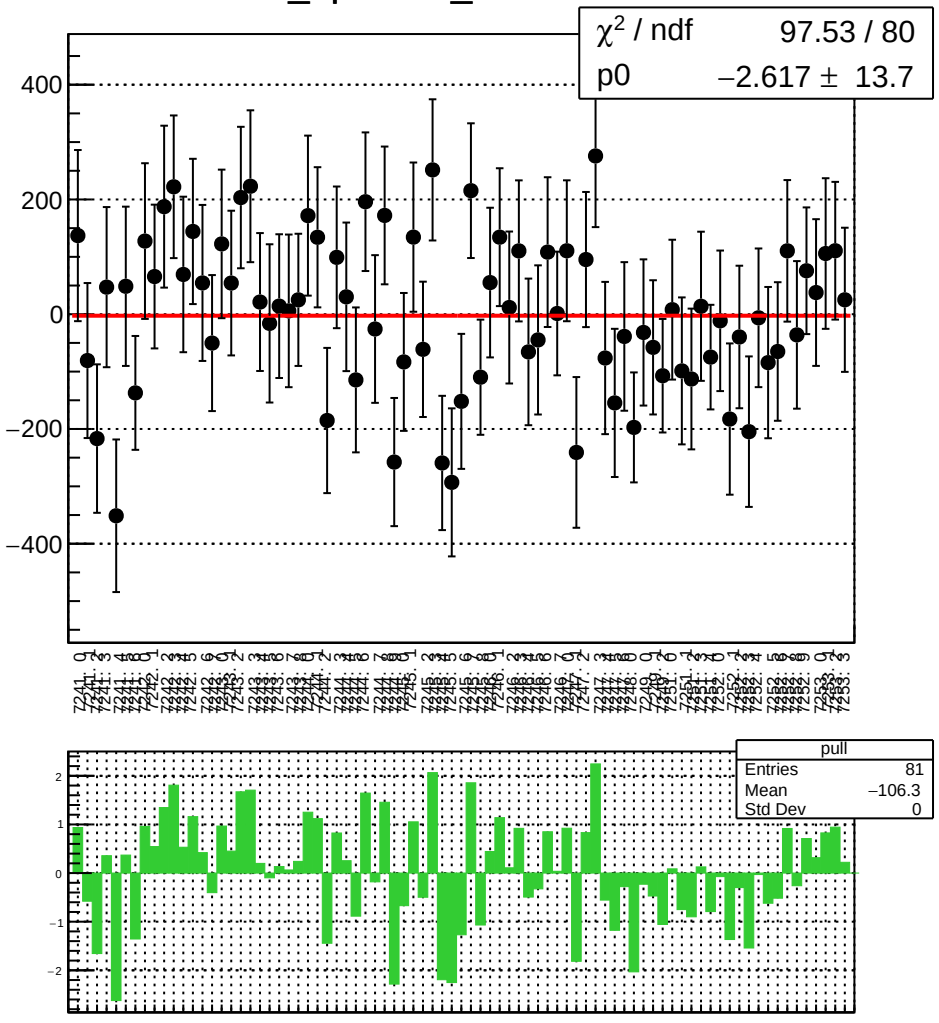

pull1D
Entries 81
Mean 0.01498
Std Dev 1.058

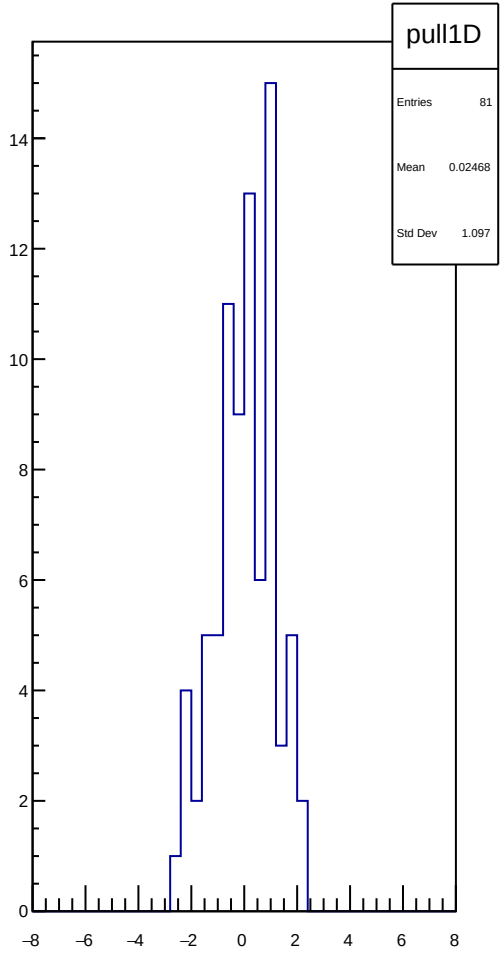

diff_bpm1X_rms vs run
χ^2 / ndf 5831 / 80
p0 8033 ± 6.466
9000
8500
8000
7500
7000

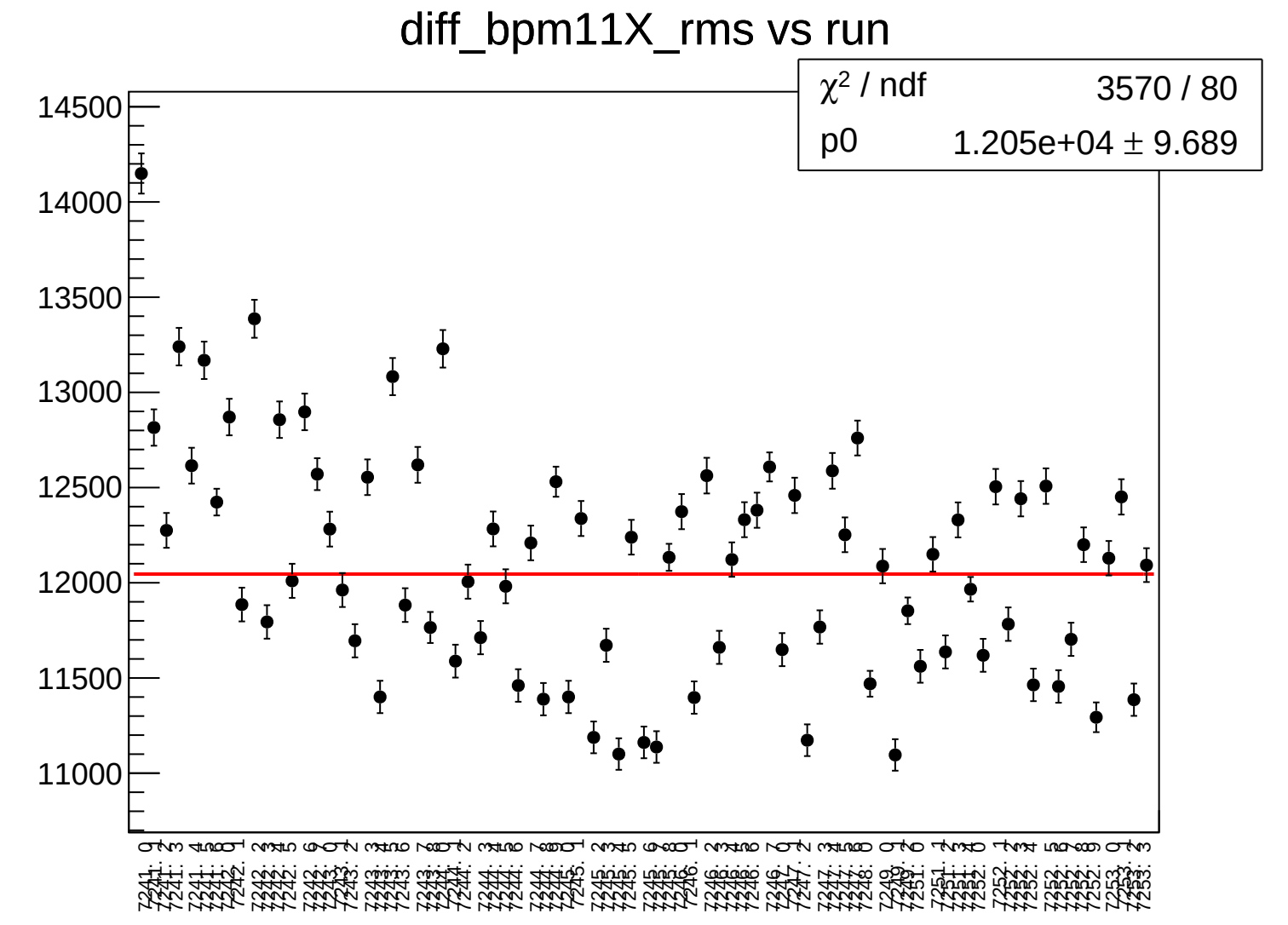

diff_bpm1Y_mean vs run
χ² / ndf 75.07 / 80
p0 −2.035 ± 6.306
pull
Entries 81
Mean 579.3
Std Dev 0

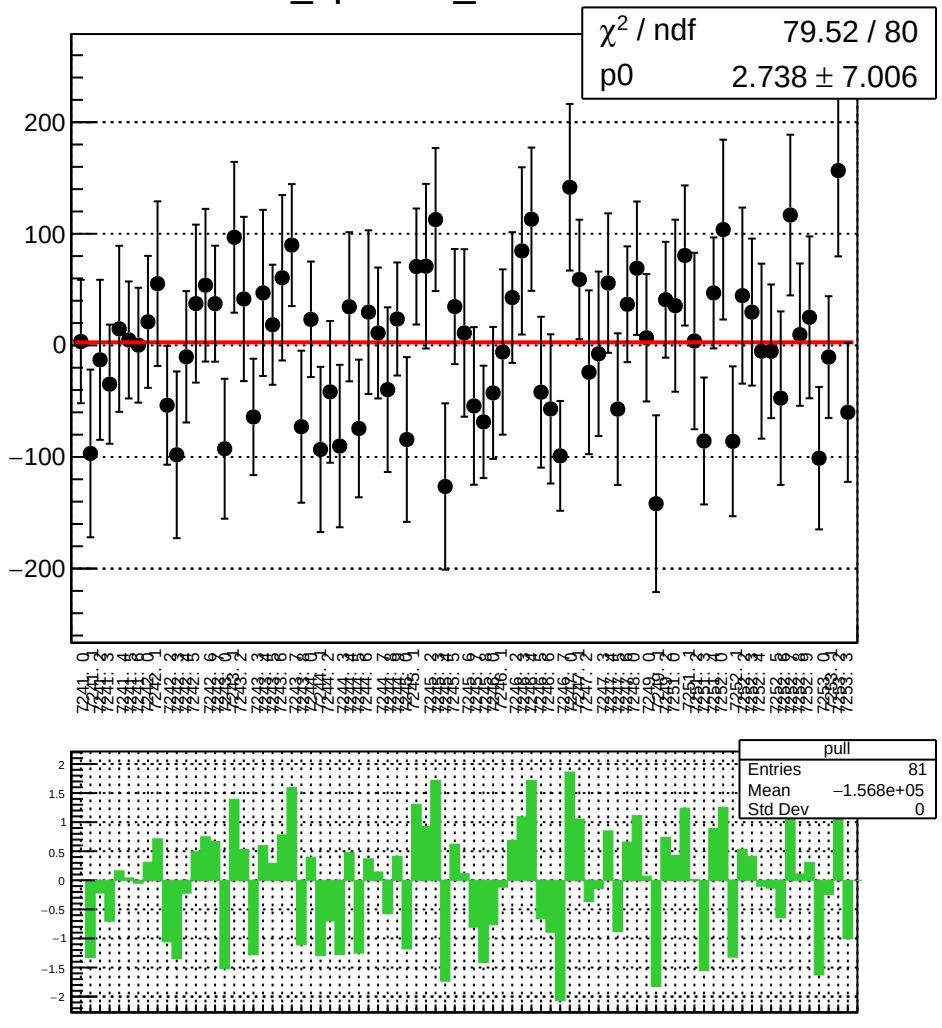

pull1D
Entries 81
Mean −0.002921
Std Dev 0.9627

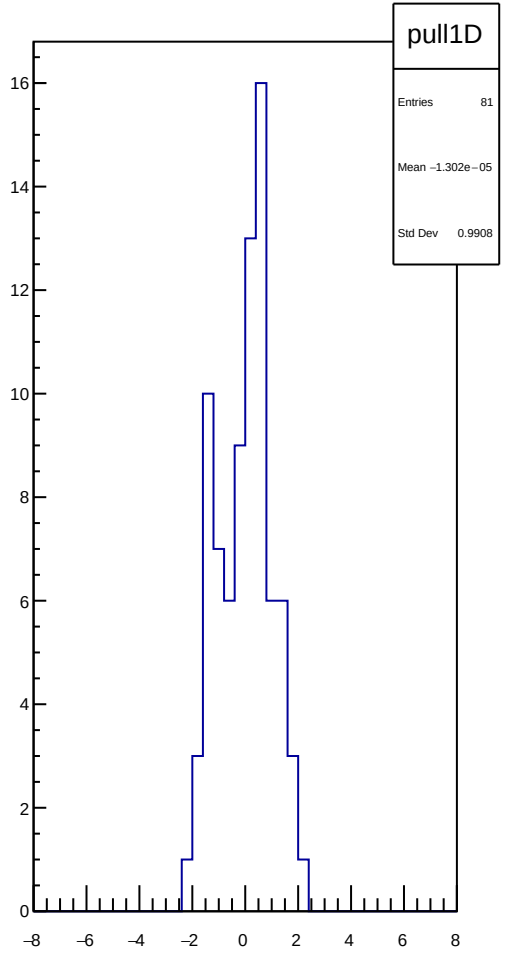

diff_bpm1Y_rms vs run
χ² / ndf 2.043e+04 / 80
p0 5513 ± 4.459
7000
6500
6000
5500
5000
4500

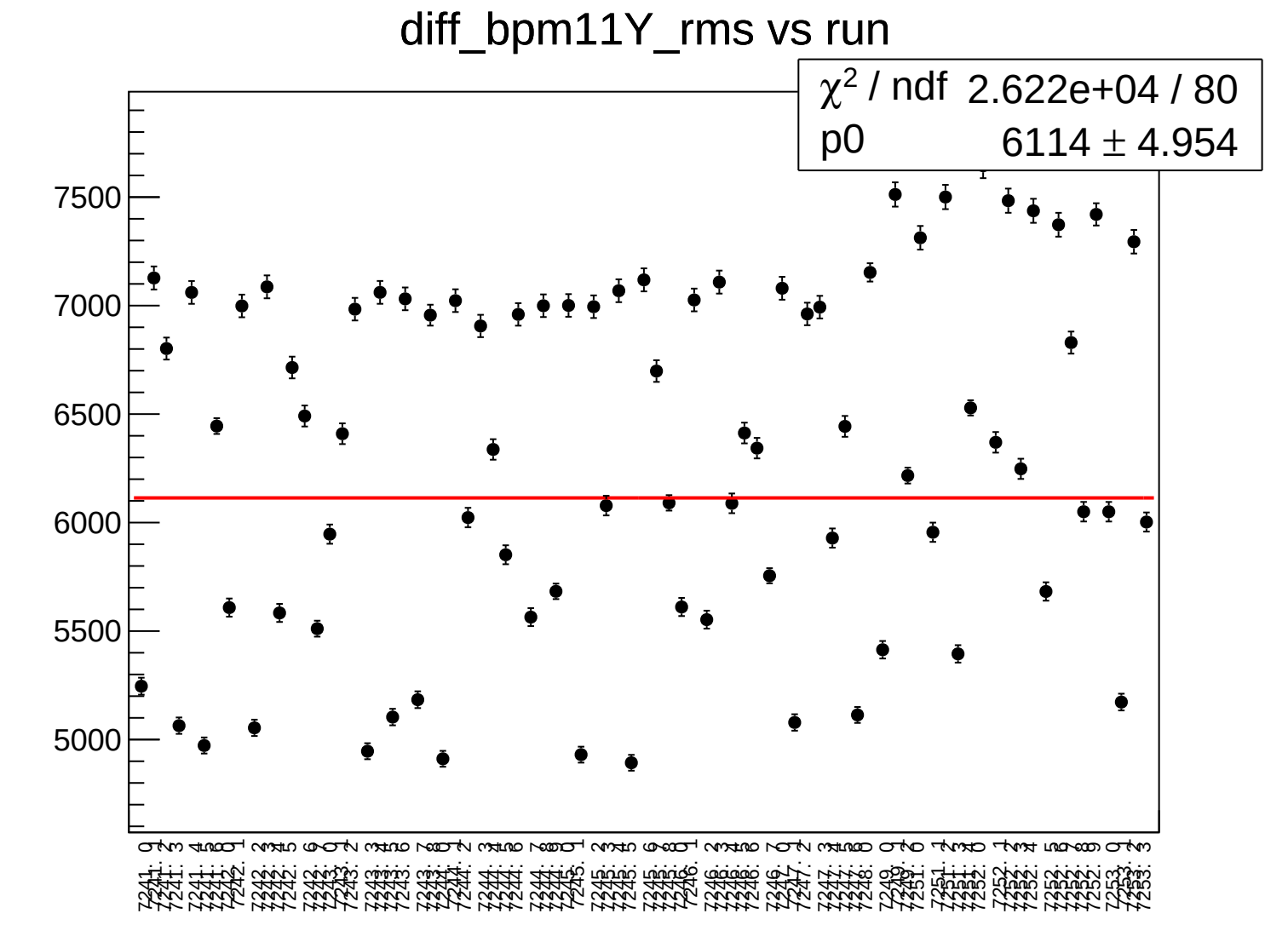

diff_bpm11X_mean vs run
χ^2 / ndf 97.53 / 80
p0 −2.617 ± 13.7
400
200
0
−200
−400
pull
Entries 81
Mean −106.3
Std Dev 0
2
1
0
−1
−2

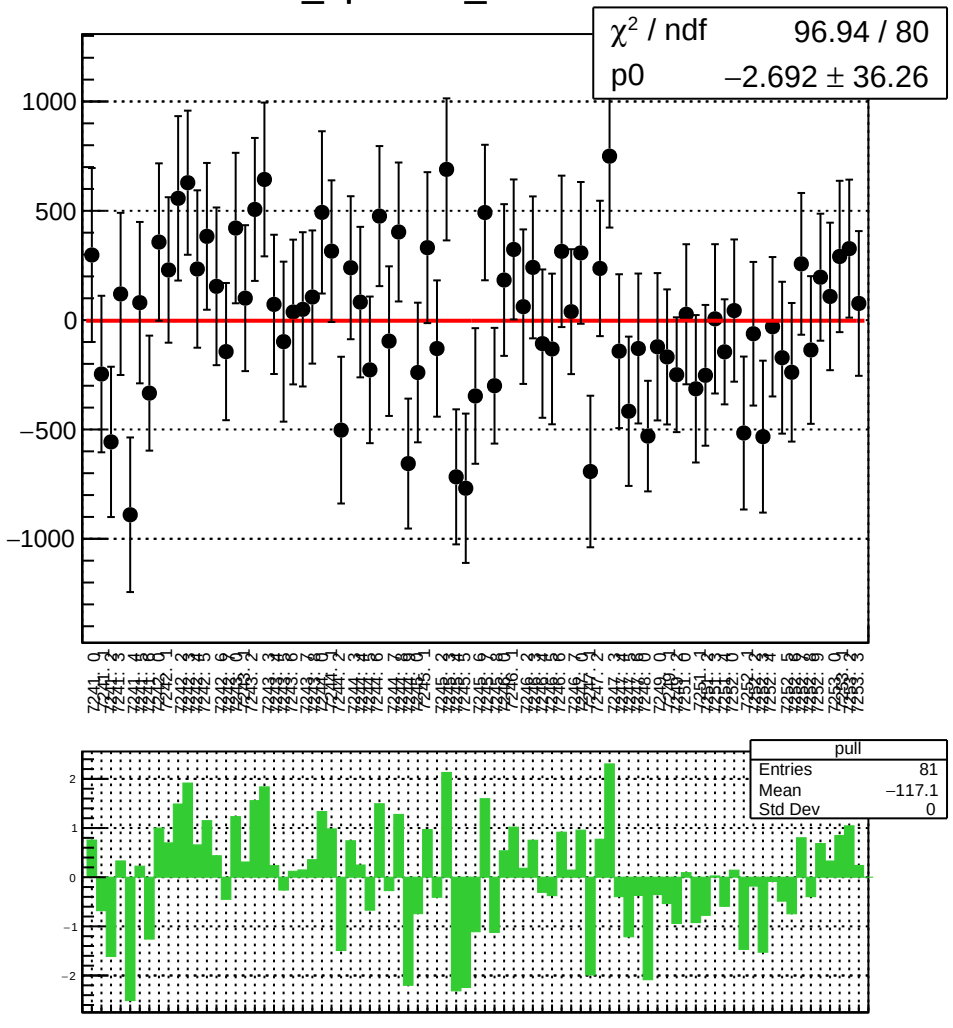

pull1D
Entries 81
Mean 0.02468
Std Dev 1.097
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

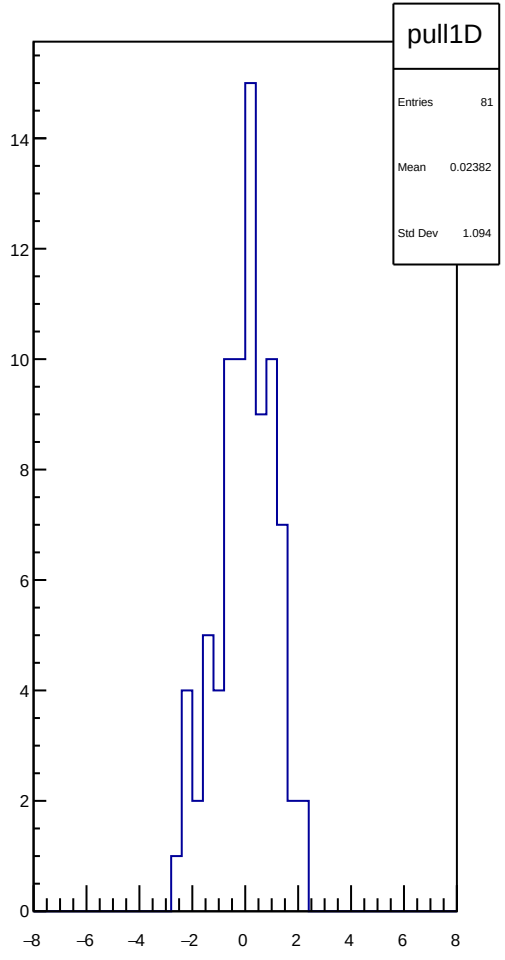

diff_bpm11X_rms vs run
χ² / ndf 3570 / 80
p0 1.205e+04 ± 9.689
14500
14000
13500
13000
12500
12000
11500
11000

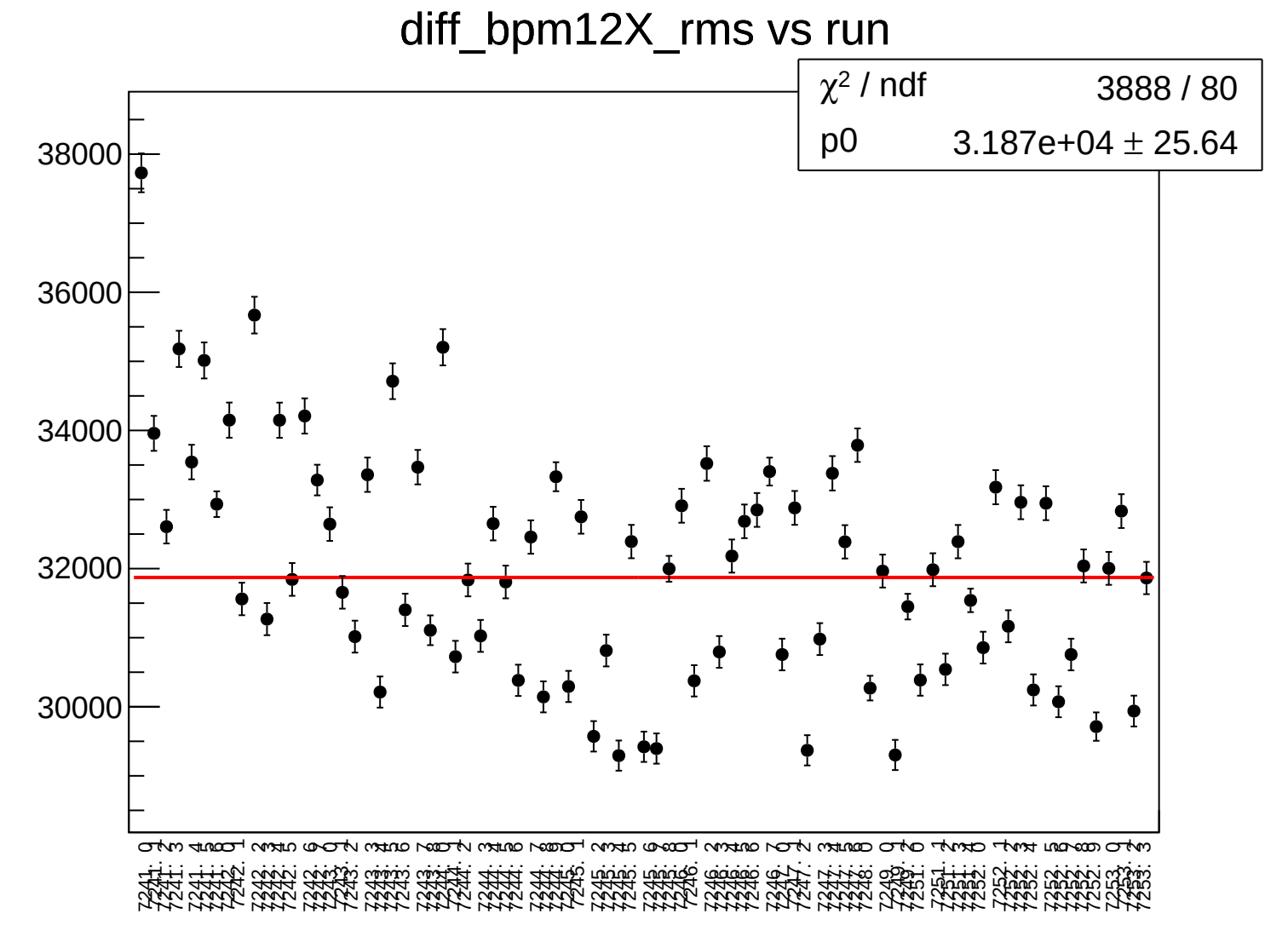

diff_bpm11Y_mean vs run
χ^2 / ndf 79.52 / 80
p0 2.738 ± 7.006
200
100
0
−100
−200
pull
Entries 81
Mean −1.568e+05
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

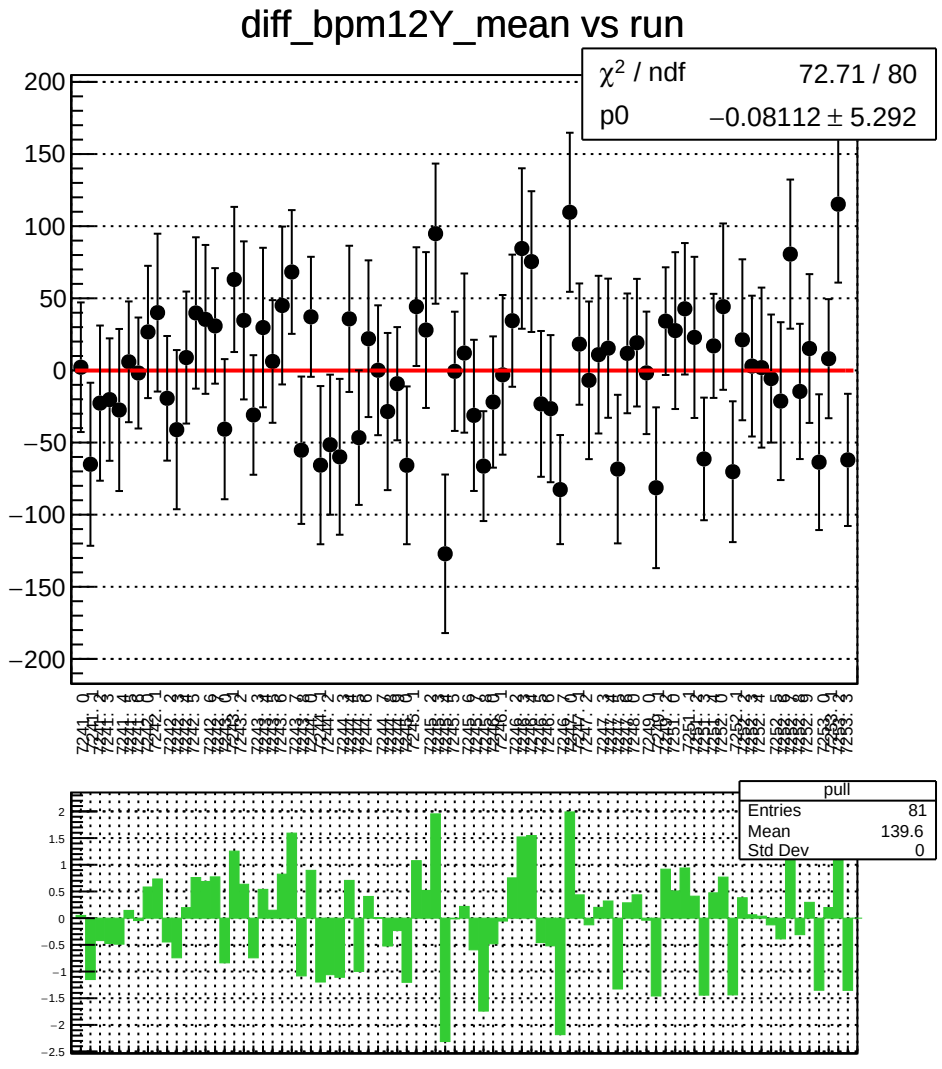

pull1D
Entries 81
Mean −1.302e−05
Std Dev 0.9908
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

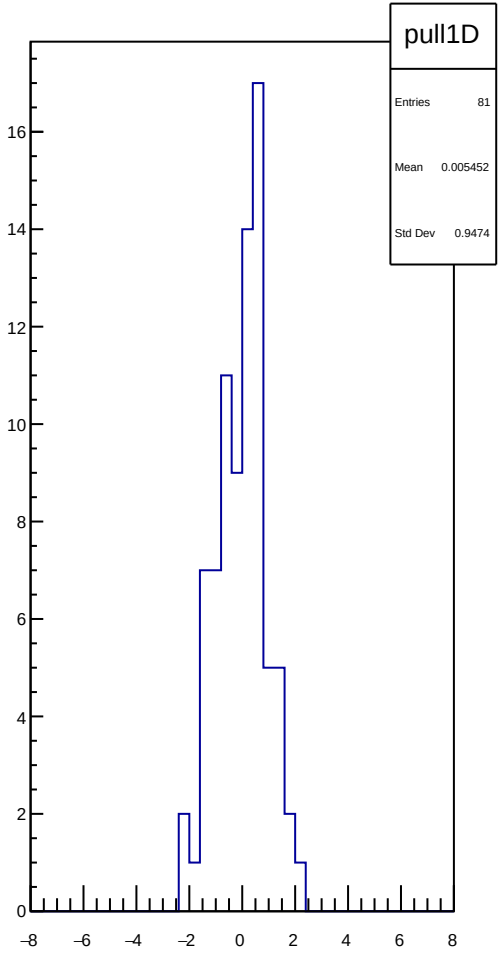

diff_bpm11Y_rms vs run
χ² / ndf 2.622e+04 / 80
p0 6114 ± 4.954
7500
7000
6500
6000
5500
5000

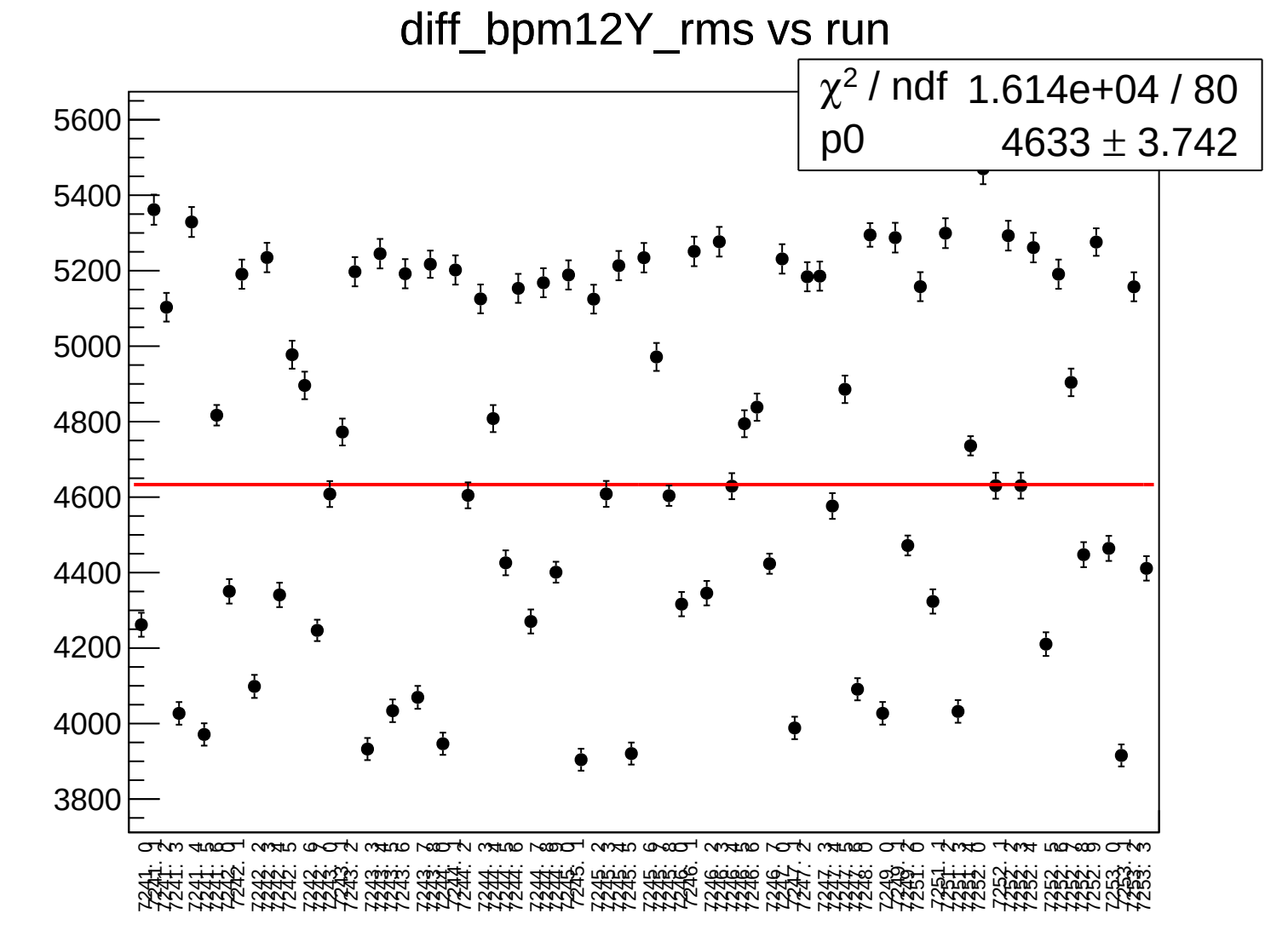

diff_bpm12X_mean vs run
χ² / ndf 96.94 / 80
p0 −2.692 ± 36.26
1000
500
0
−500
−1000
pull
Entries 81
Mean −117.1
Std Dev 0
2
1
0
−1
−2

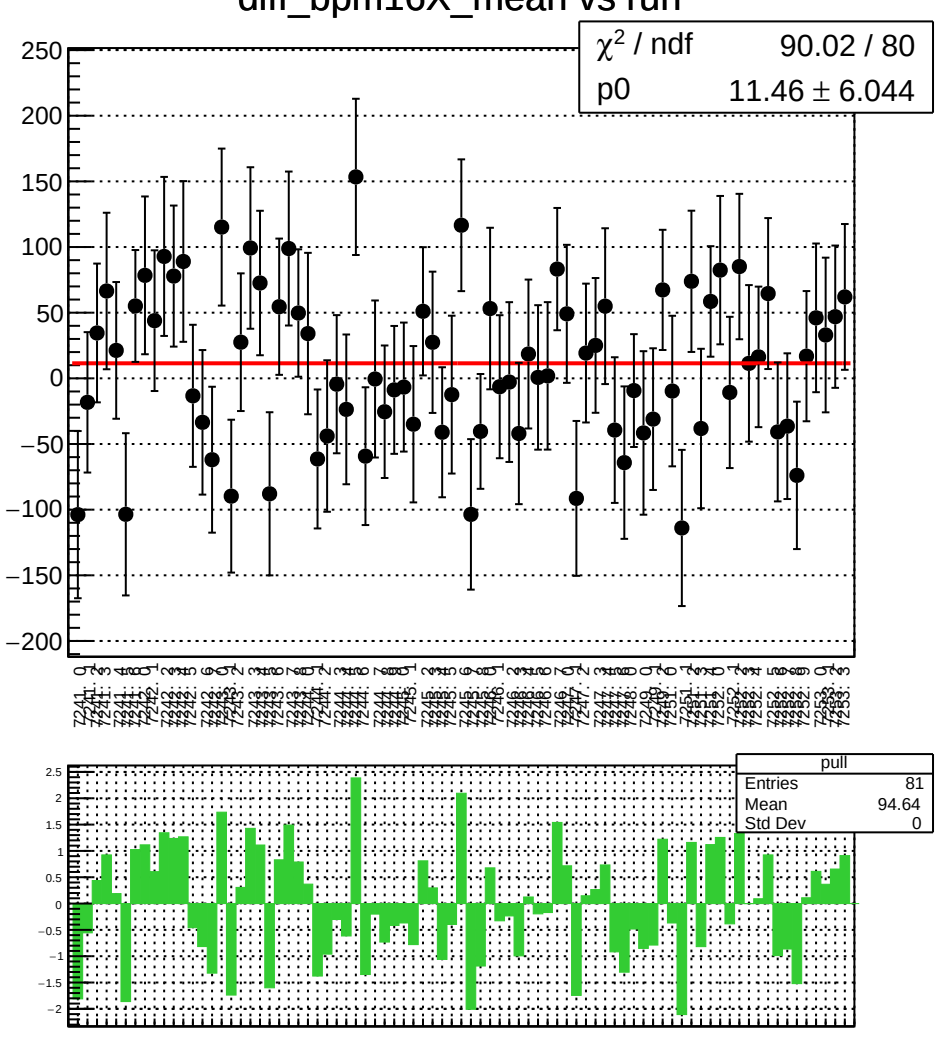

pull1D
Entries 81
Mean 0.02382
Std Dev 1.094
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

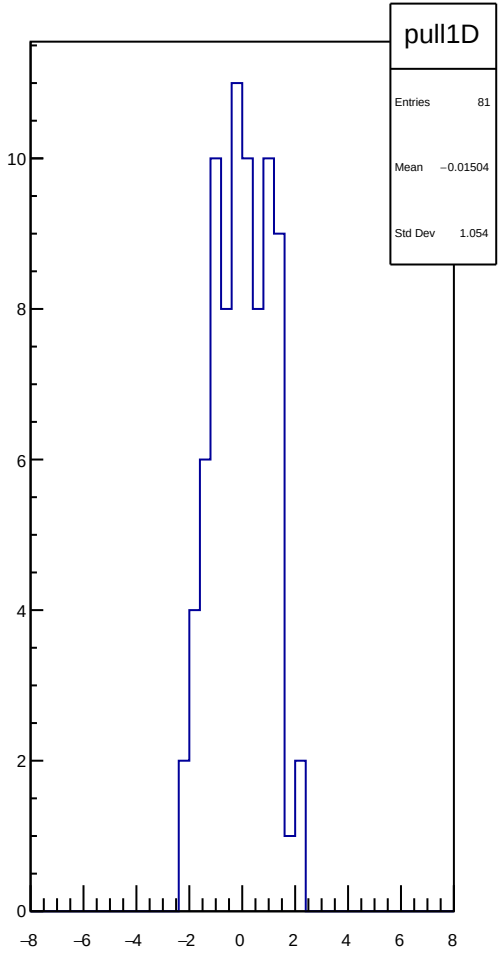

diff_bpm12X_rms vs run
χ² / ndf 3888 / 80
p0 3.187e+04 ± 25.64
38000
36000
34000
32000
30000

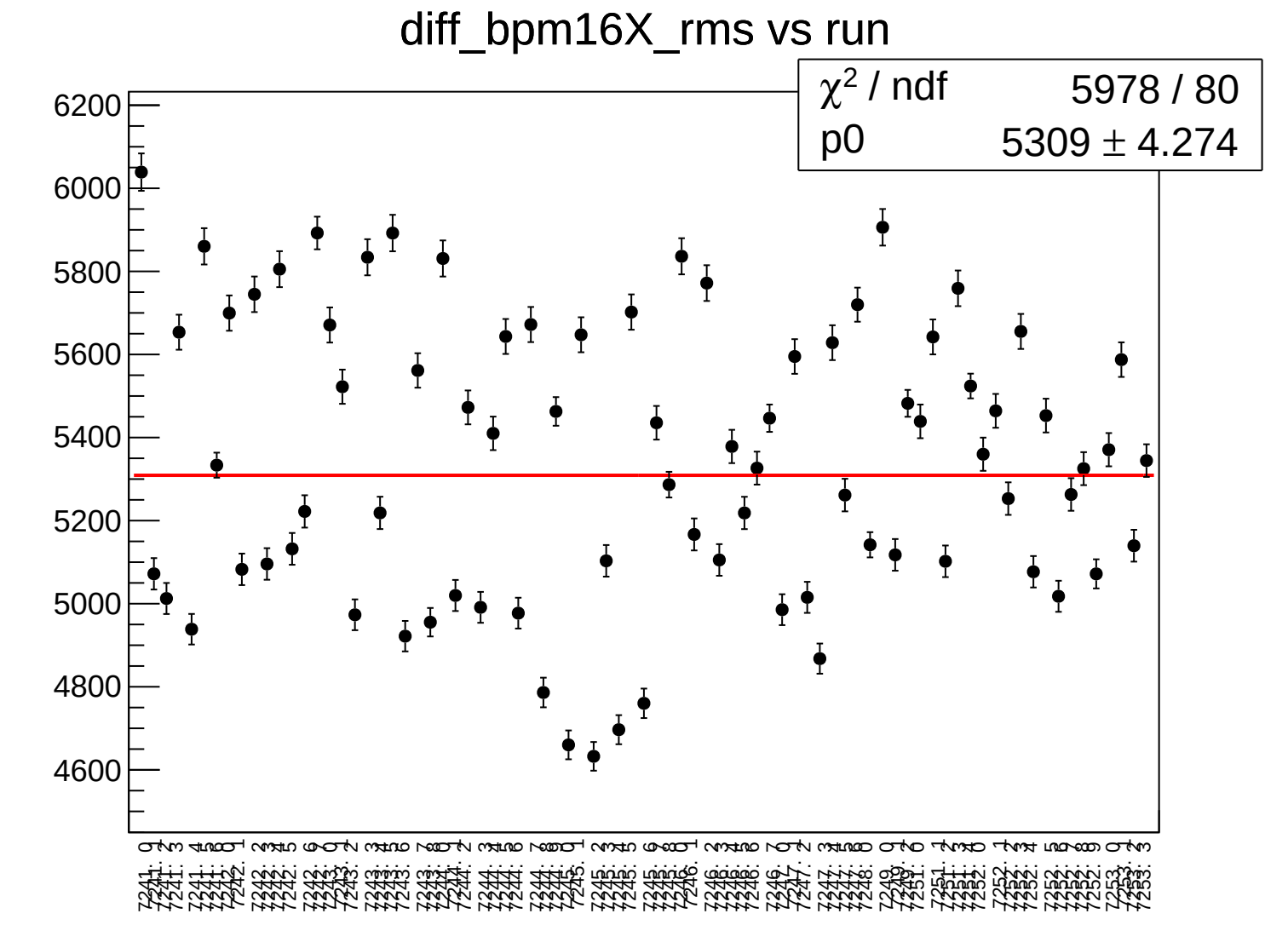

diff_bpm12Y_mean vs run
χ² / ndf 72.71 / 80
p0 −0.08112 ± 5.292
pull
Entries 81
Mean 139.6
Std Dev 0

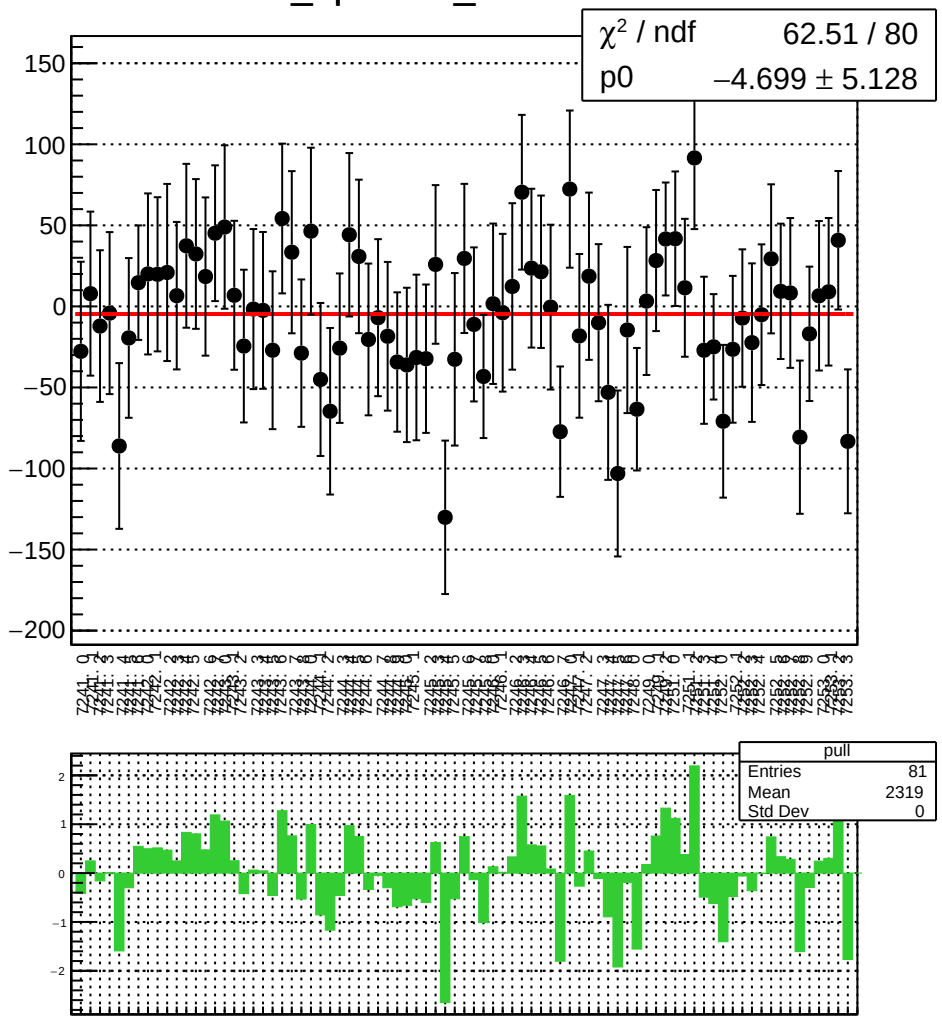

pull1D
Entries 81
Mean 0.005452
Std Dev 0.9474

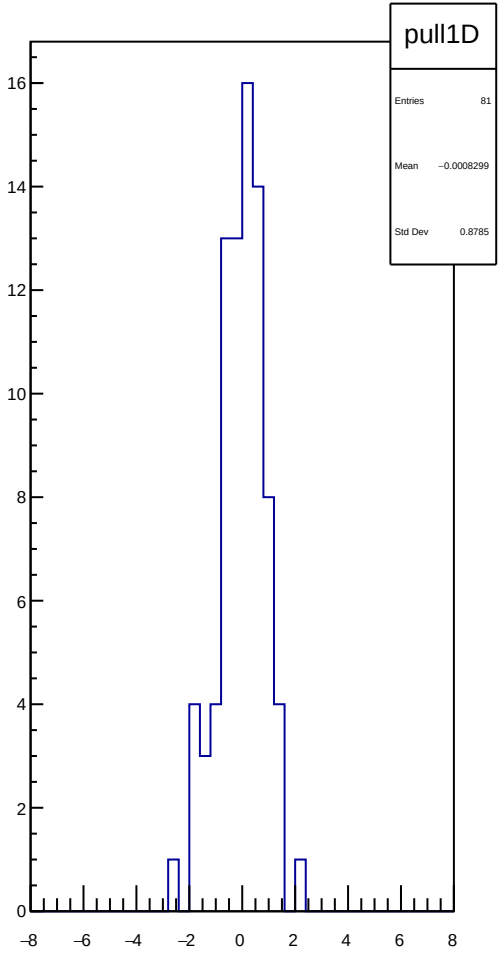

diff_bpm12Y_rms vs run
χ² / ndf 1.614e+04 / 80
p0 4633 ± 3.742
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800

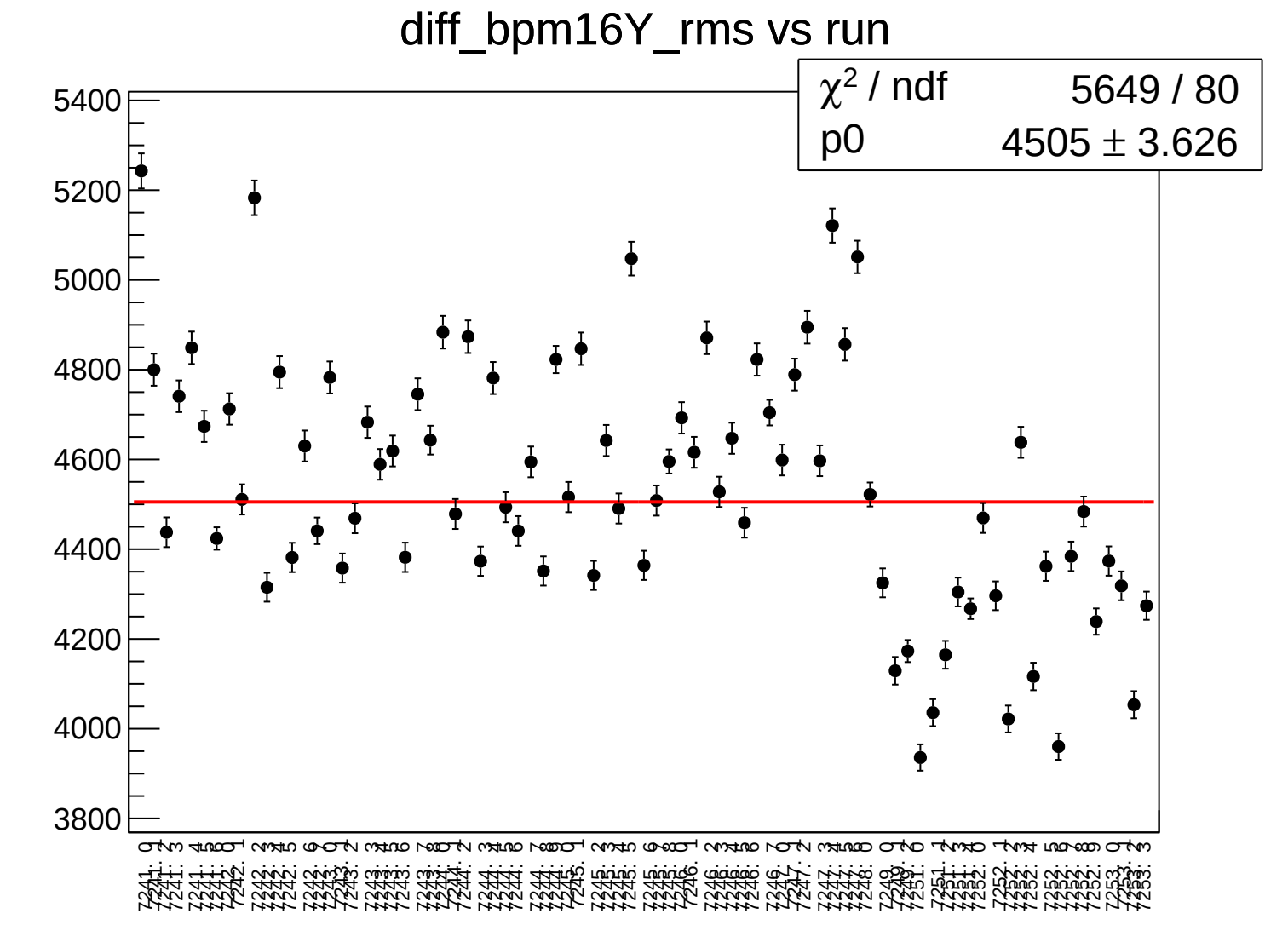

diff_bpm16X_mean vs run
χ^2 / ndf 90.02 / 80
p0 11.46 ± 6.044
pull
Entries 81
Mean 94.64
Std Dev 0

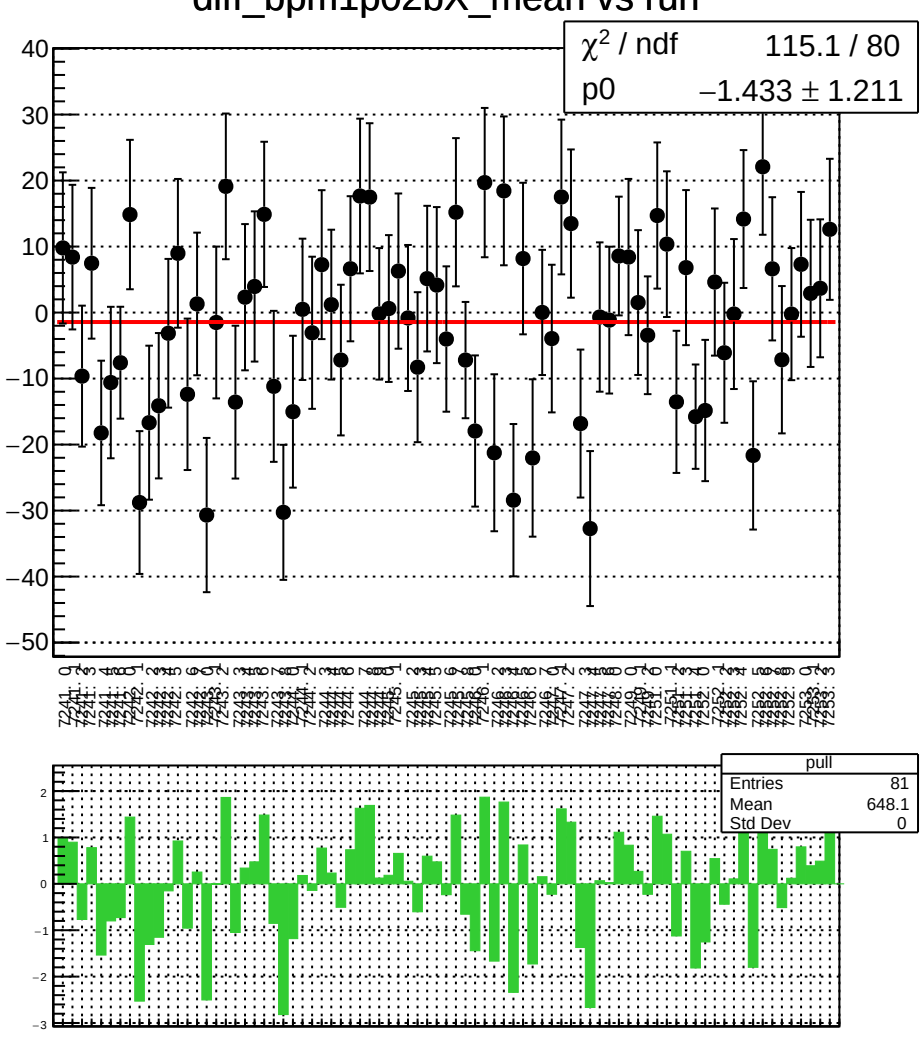

pull1D
Entries 81
Mean −0.01504
Std Dev 1.054

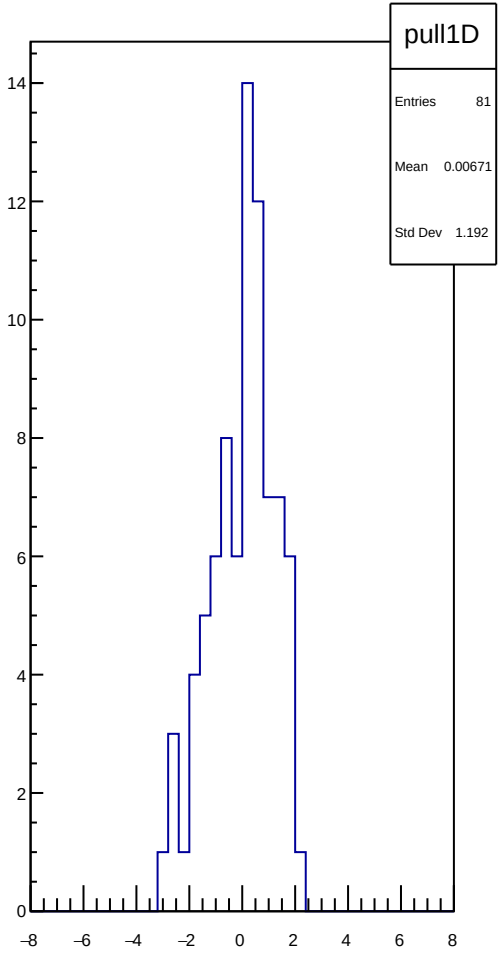

diff_bpm16X_rms vs run
χ² / ndf 5978 / 80
p0 5309 ± 4.274
6200
6000
5800
5600
5400
5200
5000
4800
4600

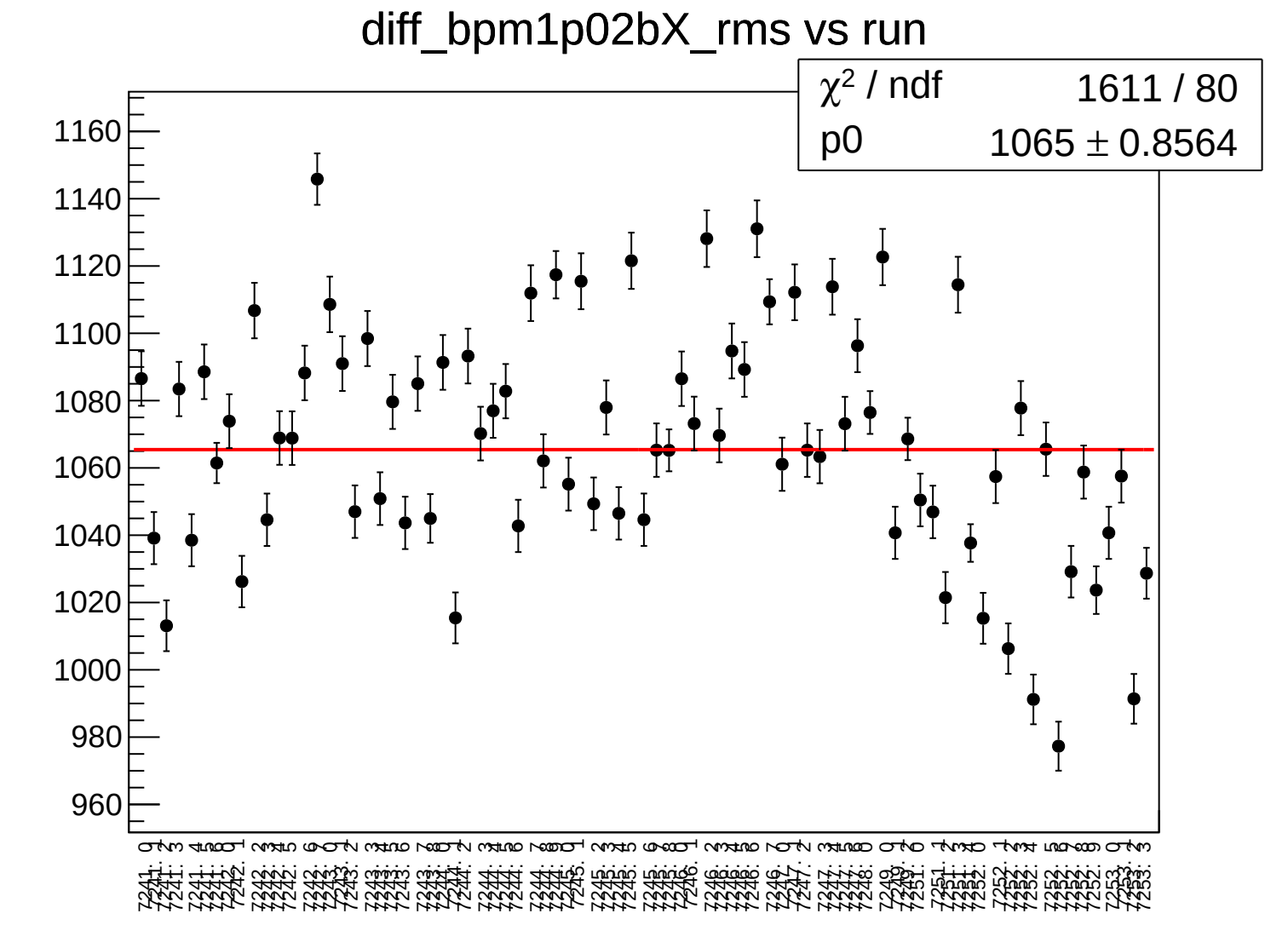

diff_bpm16Y_mean vs run
χ² / ndf 62.51 / 80
p0 −4.699 ± 5.128
pull
Entries 81
Mean 2319
Std Dev 0

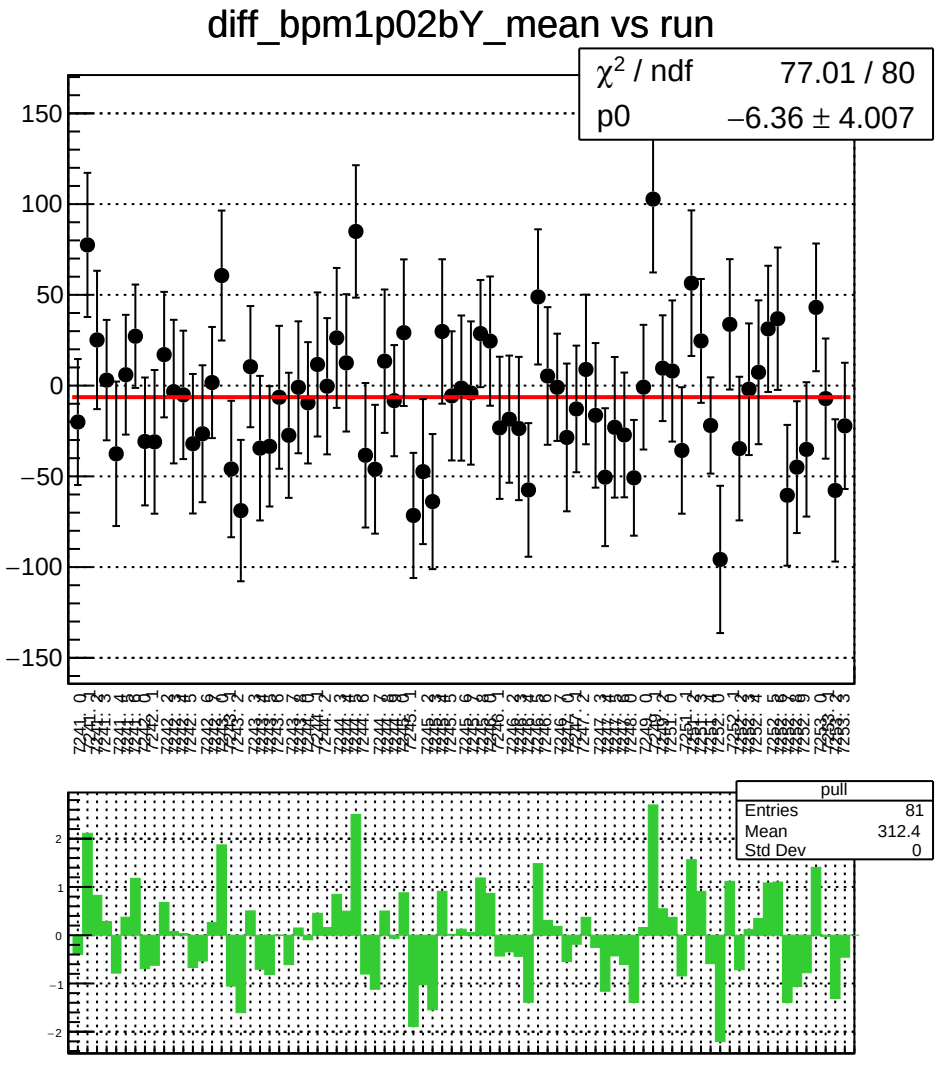

pull1D
Entries 81
Mean −0.0008299
Std Dev 0.8785

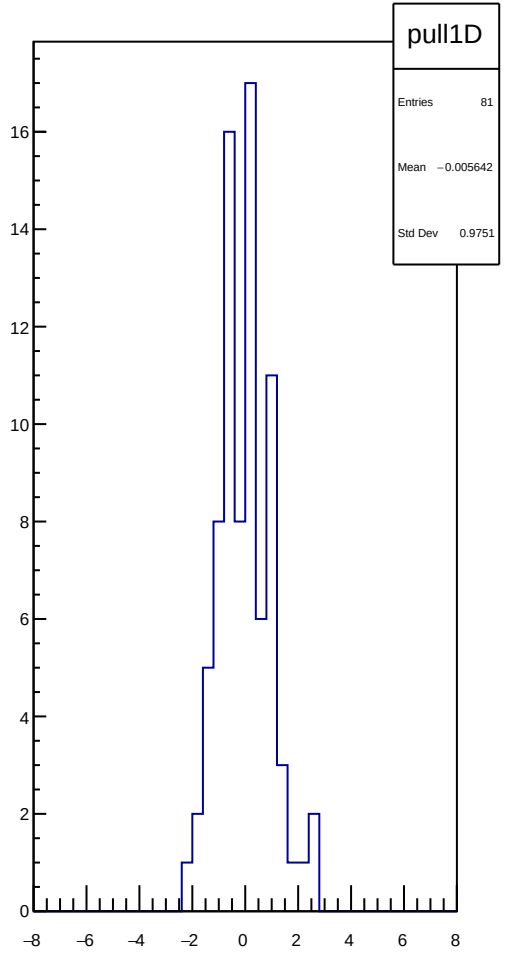

diff_bpm16Y_rms vs run
χ² / ndf 5649 / 80
p0 4505 ± 3.626
5400
5200
5000
4800
4600
4400
4200
4000
3800

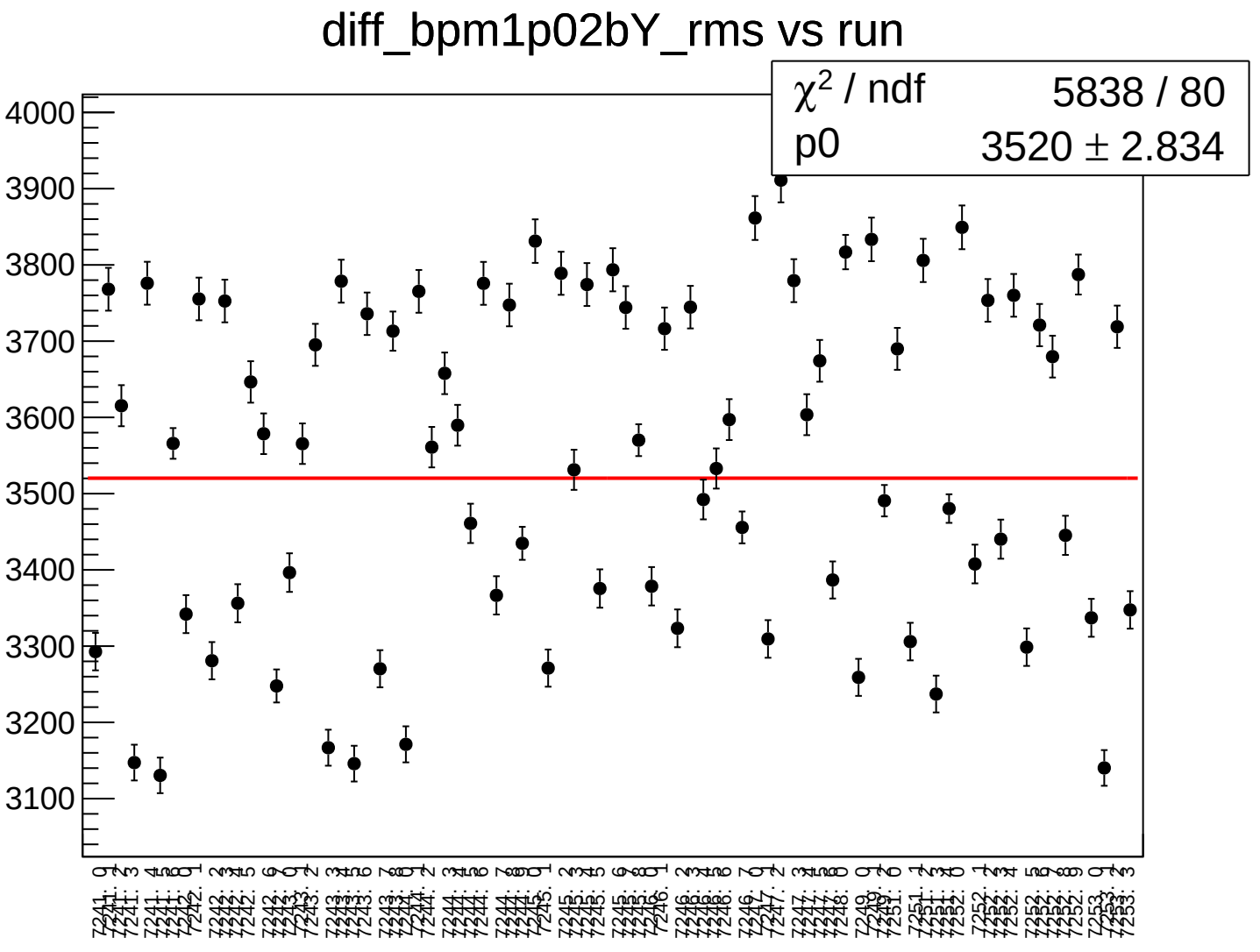

diff_bpm1p02bX_mean vs run
χ^2 / ndf 115.1 / 80
p0 −1.433 ± 1.211
pull
Entries 81
Mean 648.1
Std Dev 0

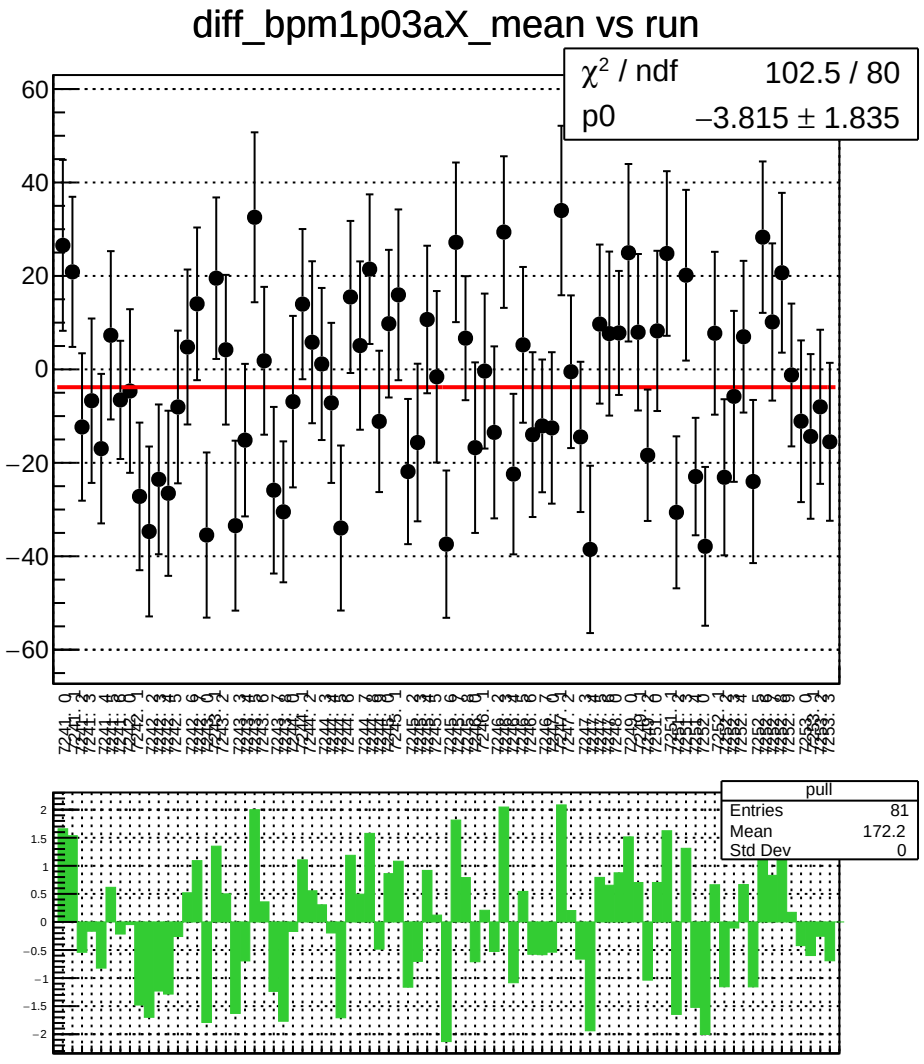

pull1D
Entries 81
Mean 0.00671
Std Dev 1.192

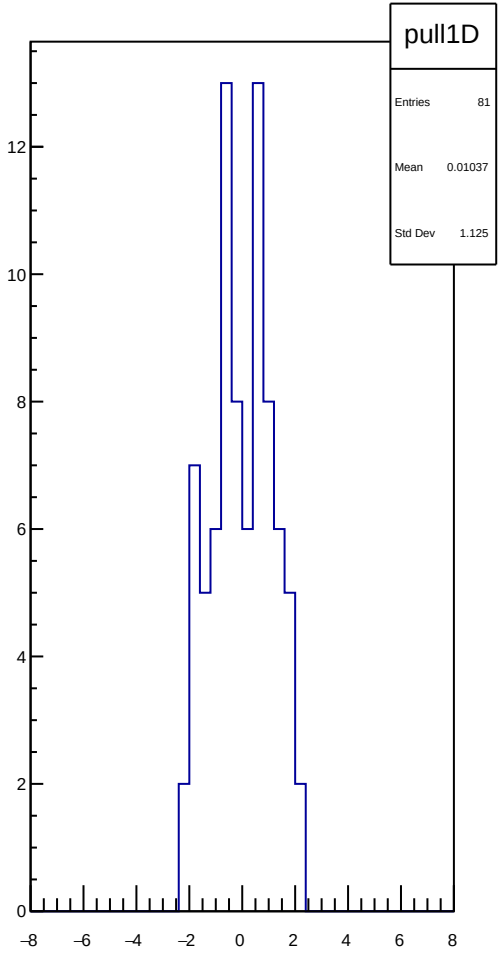

diff_bpm1p02bX_rms vs run
χ² / ndf 1611 / 80
p0 1065 ± 0.8564
1160
1140
1120
1100
1080
1060
1040
1020
1000
980
960

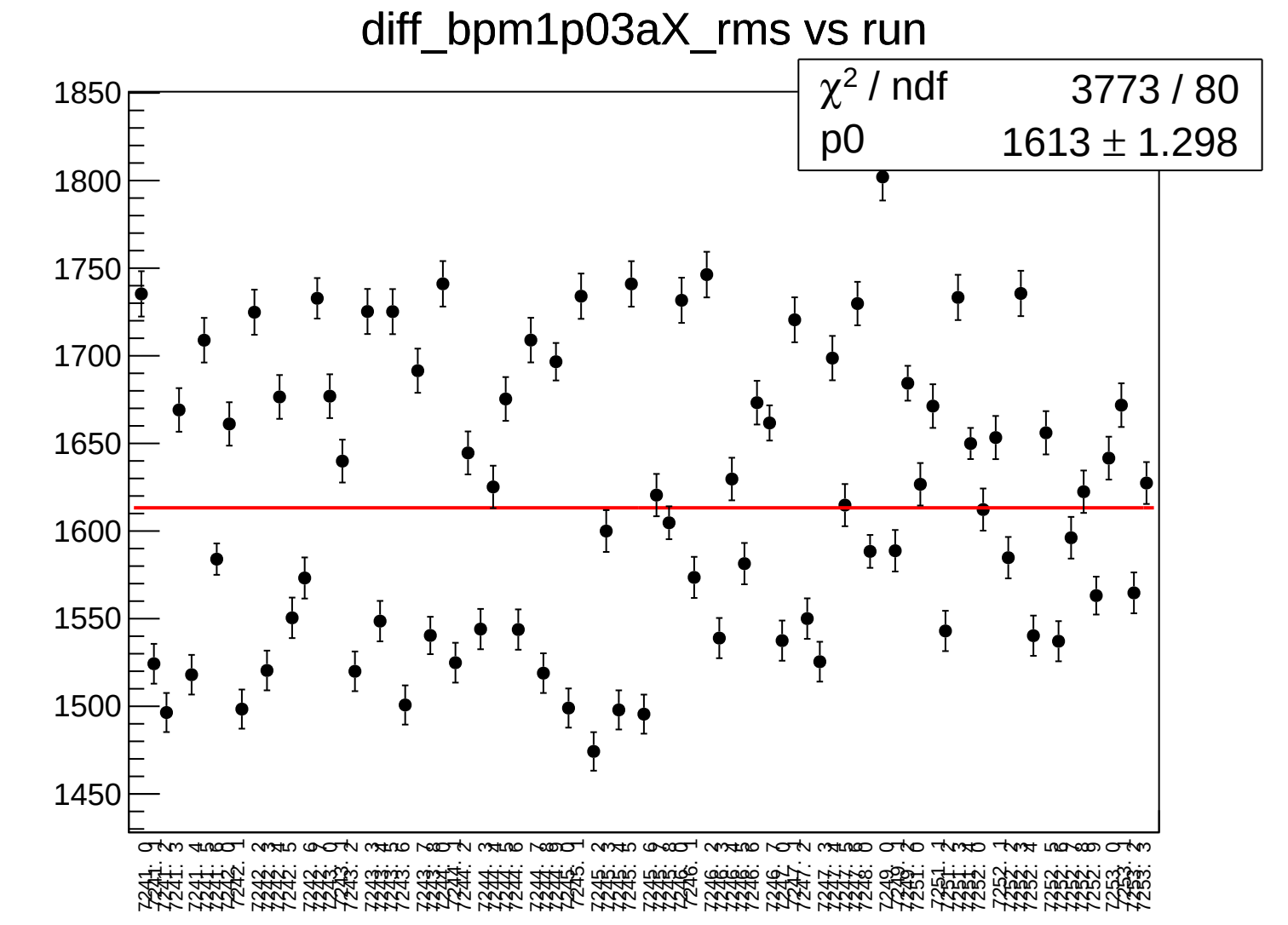

diff_bpm1p02bY_mean vs run
χ² / ndf 77.01 / 80
p0 −6.36 ± 4.007
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean 312.4
Std Dev 0
2
1
0
−1
−2

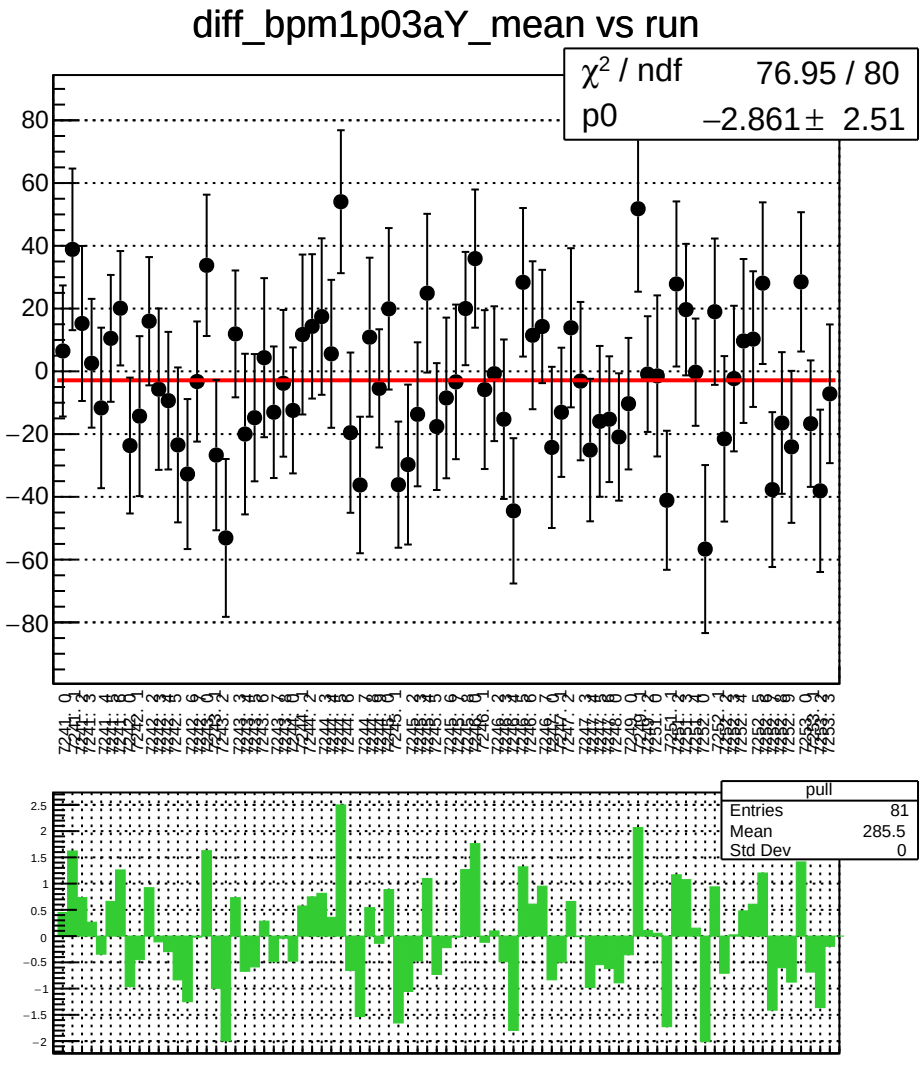

pull1D
Entries 81
Mean −0.005642
Std Dev 0.9751
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

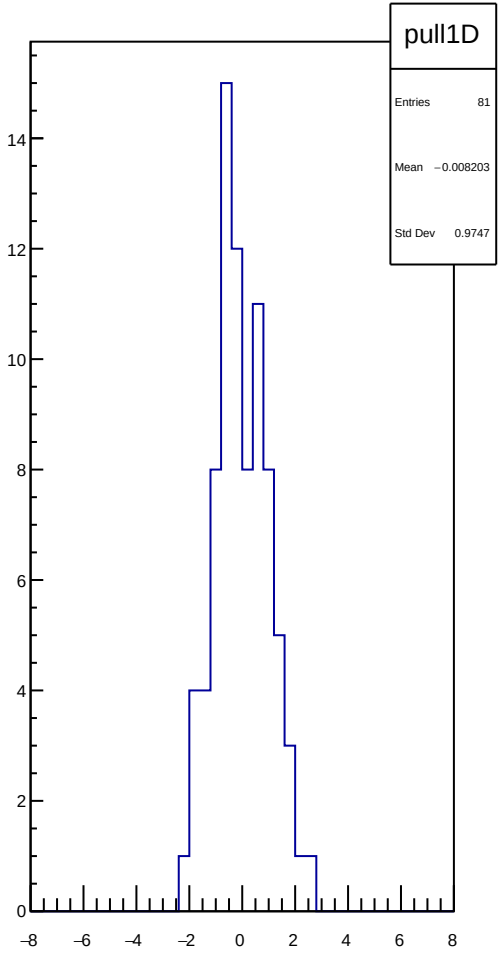

diff_bpm1p02bY_rms vs run
χ^2 / ndf 5838 / 80
p0 3520 ± 2.834
4000
3900
3800
3700
3600
3500
3400
3300
3200
3100

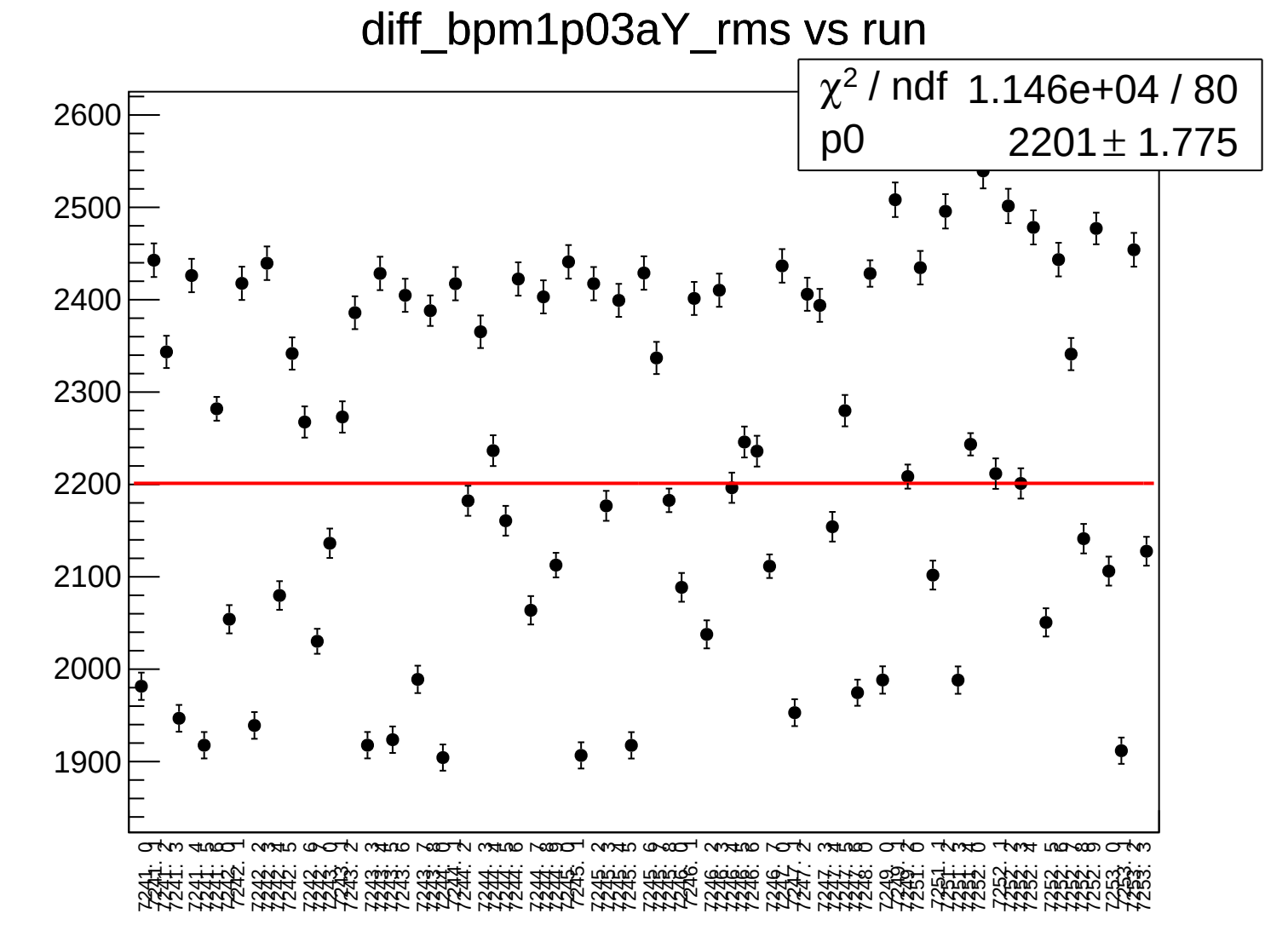

diff_bpm1p03aX_mean vs run
χ² / ndf 102.5 / 80
p0 −3.815 ± 1.835
pull
Entries 81
Mean 172.2
Std Dev 0

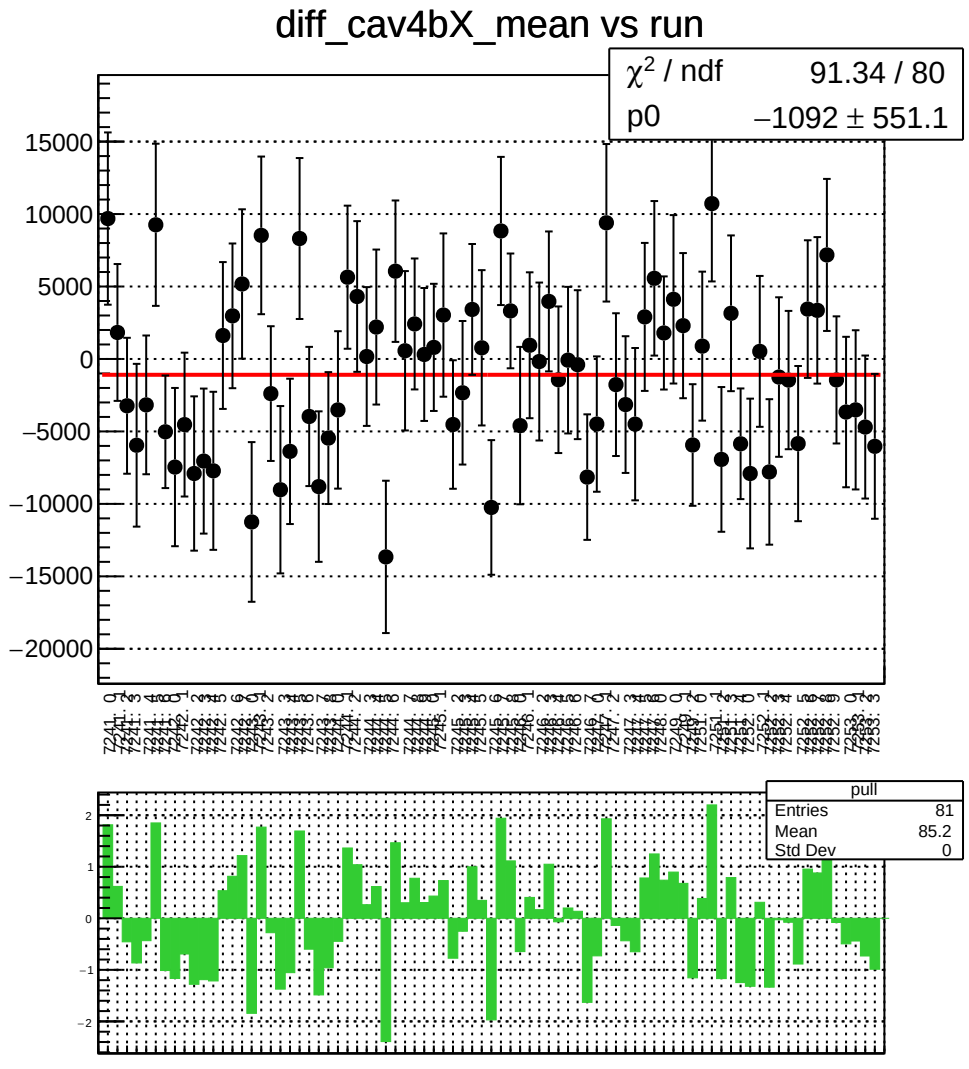

pull1D
Entries 81
Mean 0.01037
Std Dev 1.125

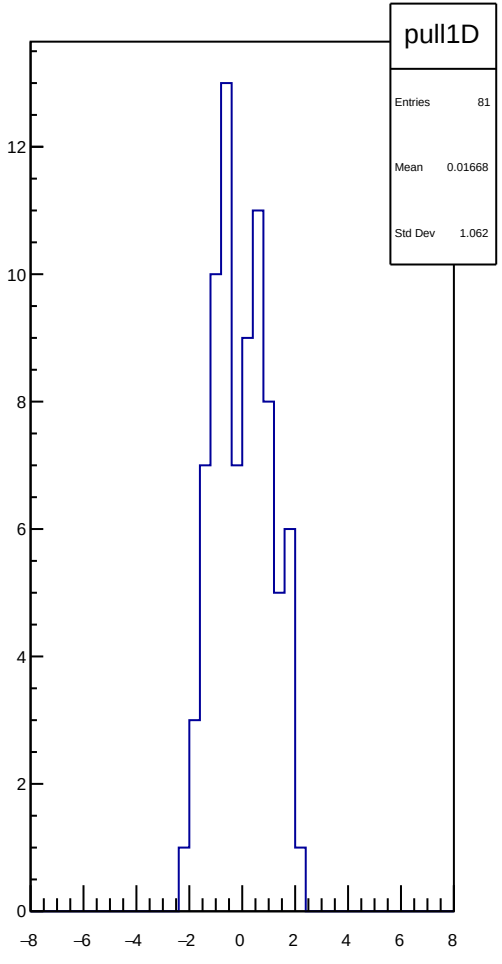

diff_bpm1p03aX_rms vs run
χ^2 / ndf 3773 / 80
p0 1613 ± 1.298
1850
1800
1750
1700
1650
1600
1550
1500
1450

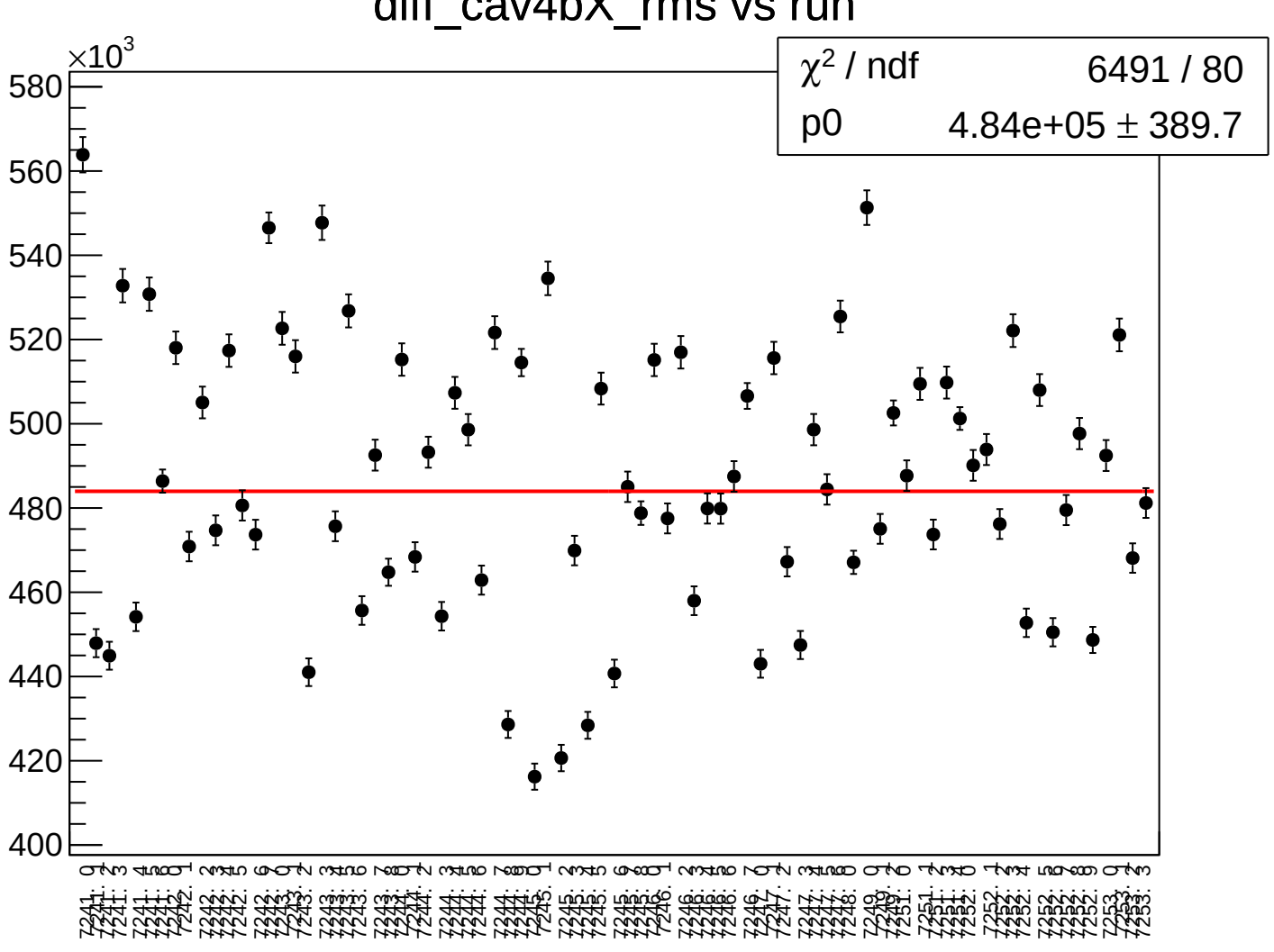

diff_bpm1p03aY_mean vs run
χ² / ndf 76.95 / 80
p0 −2.861 ± 2.51
pull
Entries 81
Mean 285.5
Std Dev 0

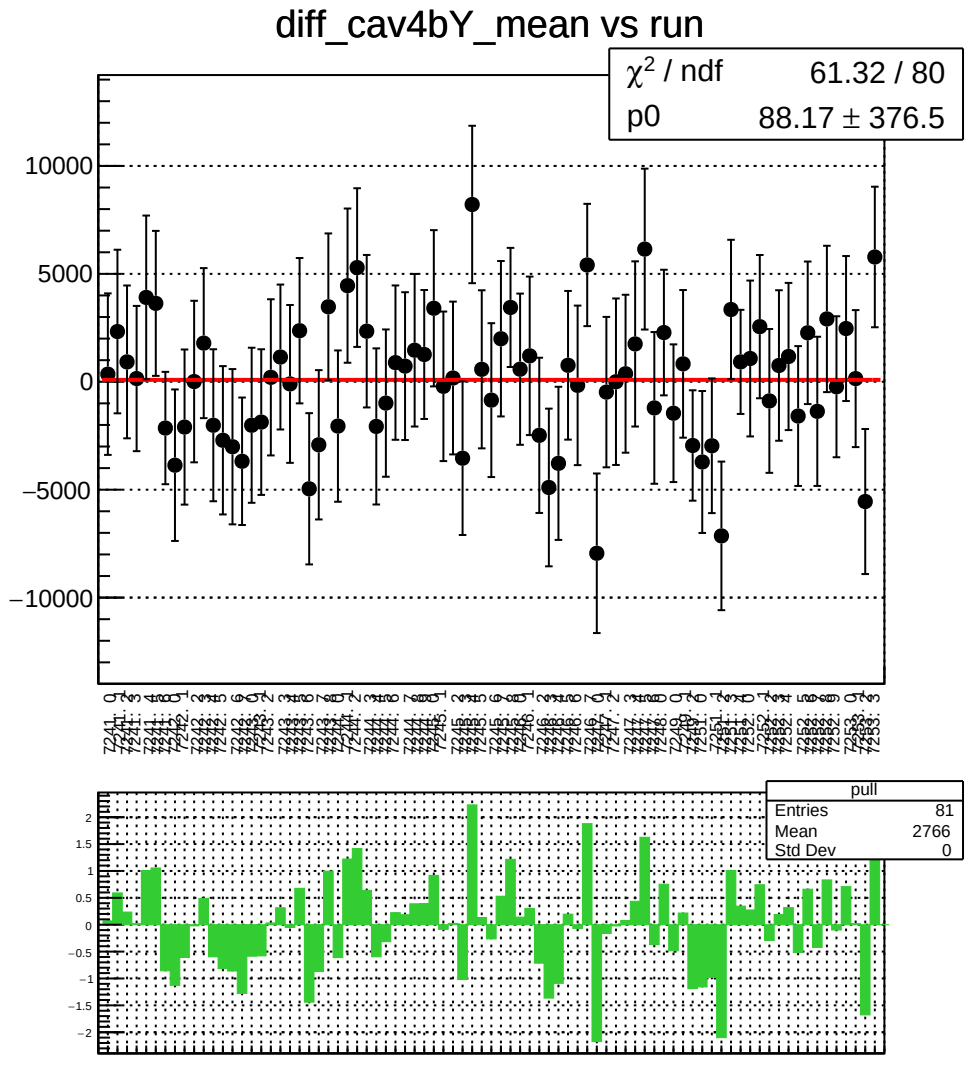

pull1D
Entries 81
Mean −0.008203
Std Dev 0.9747

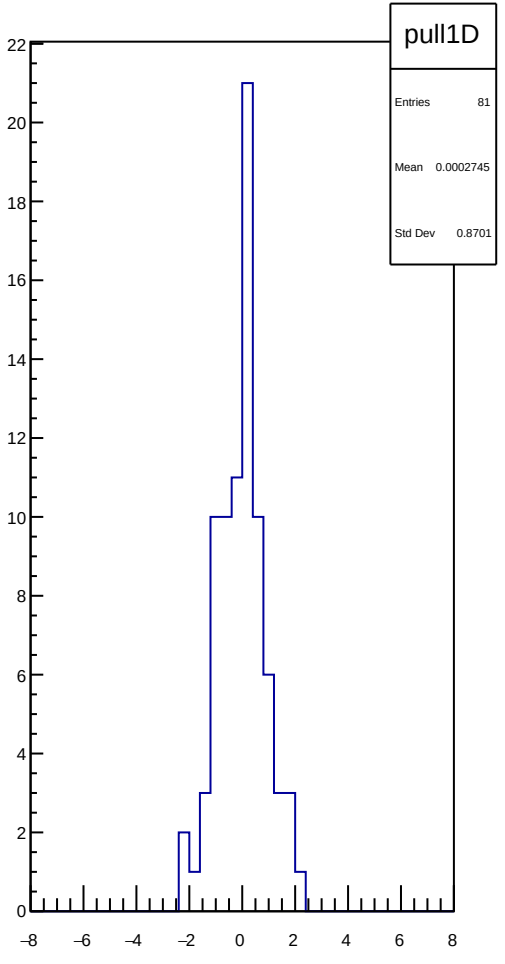

diff_bpm1p03aY_rms vs run
χ² / ndf 1.146e+04 / 80
p0 2201 ± 1.775
2600
2500
2400
2300
2200
2100
2000
1900

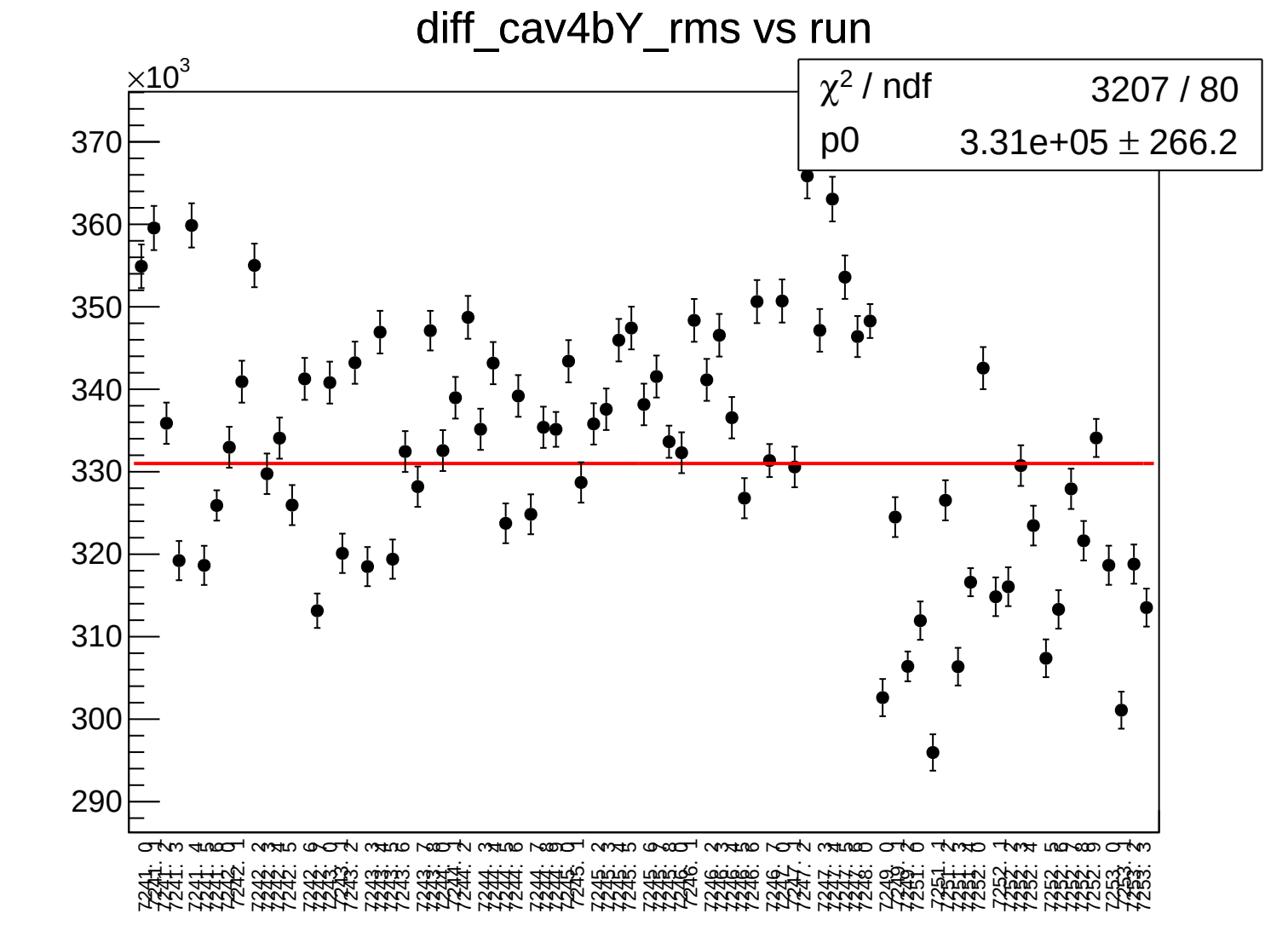

diff_cav4bX_mean vs run
χ² / ndf 91.34 / 80
p0 −1092 ± 551.1
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 81
Mean 85.2
Std Dev 0
2
1
0
−1
−2

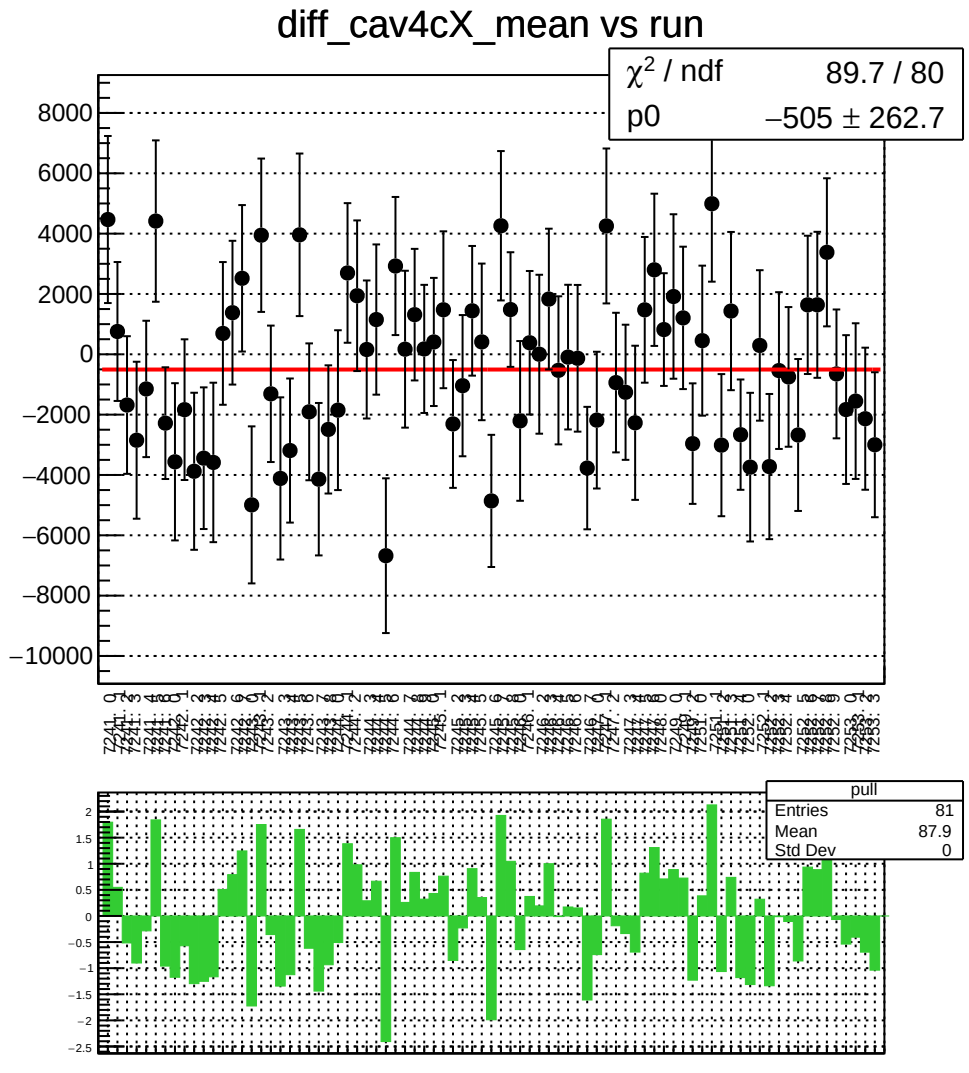

pull1D
Entries 81
Mean 0.01668
Std Dev 1.062
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

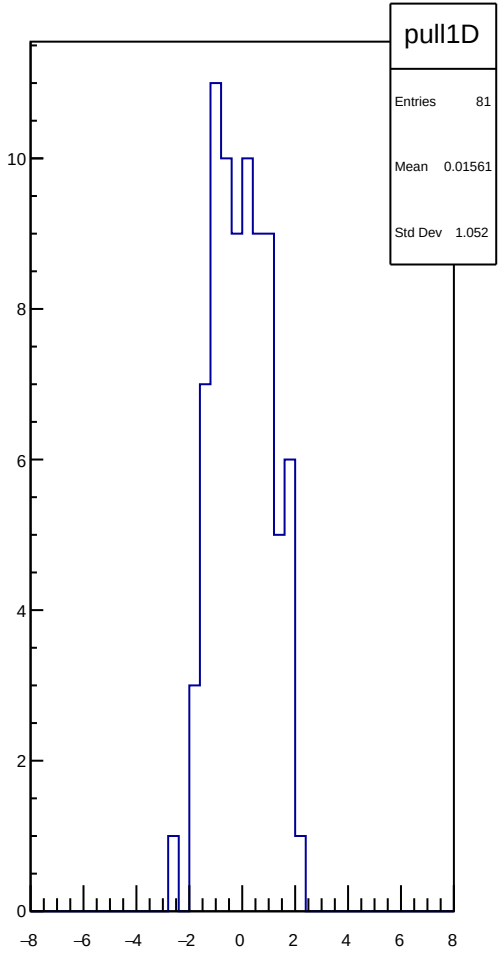

diff_cav4bX_rms vs run
×10^3
580
560
540
520
500
480
460
440
420
400
χ² / ndf 6491 / 80
p0 4.84e+05 ± 389.7

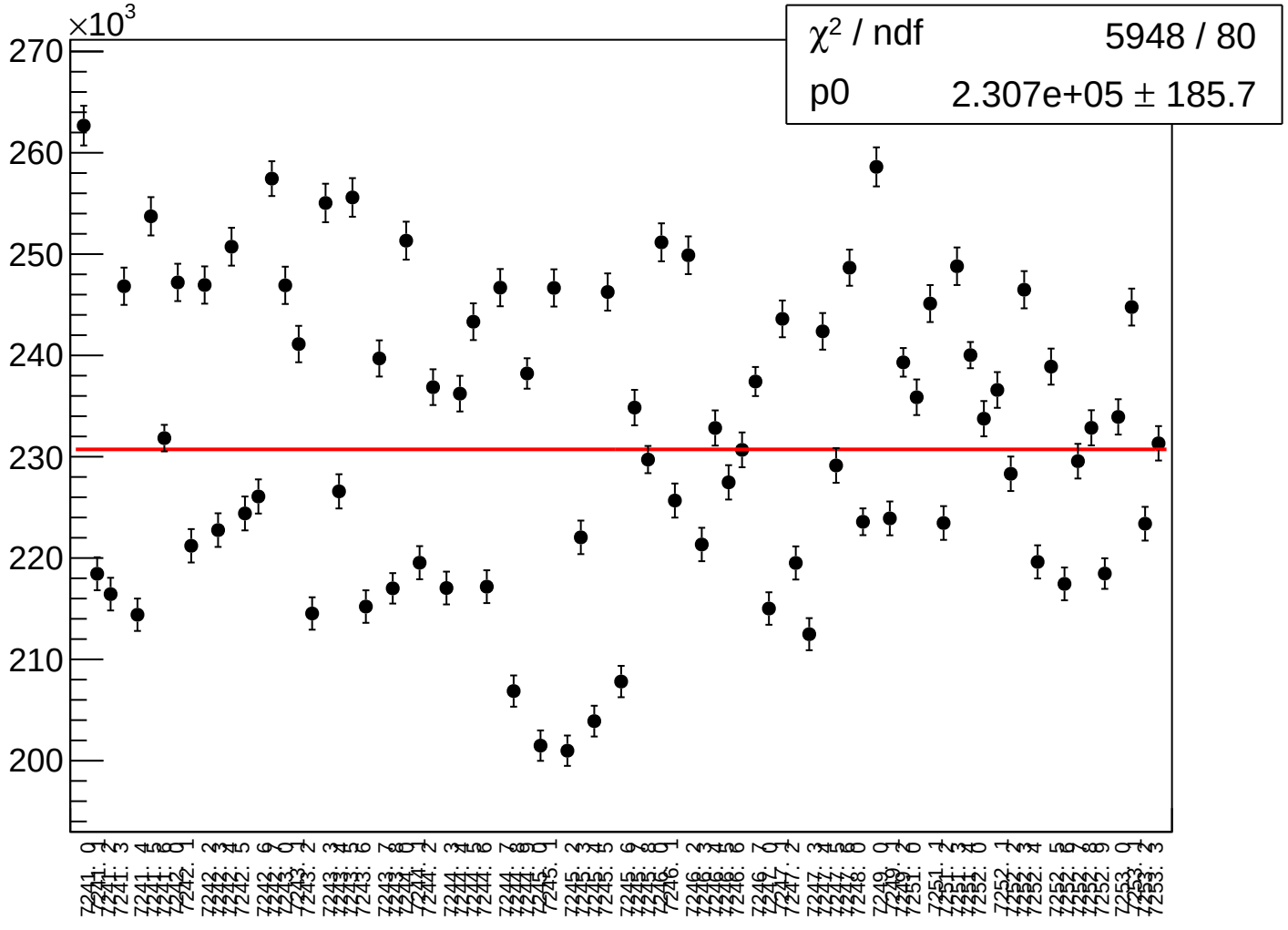

diff_cav4bY_mean vs run
χ² / ndf 61.32 / 80
p0 88.17 ± 376.5
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 2766
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

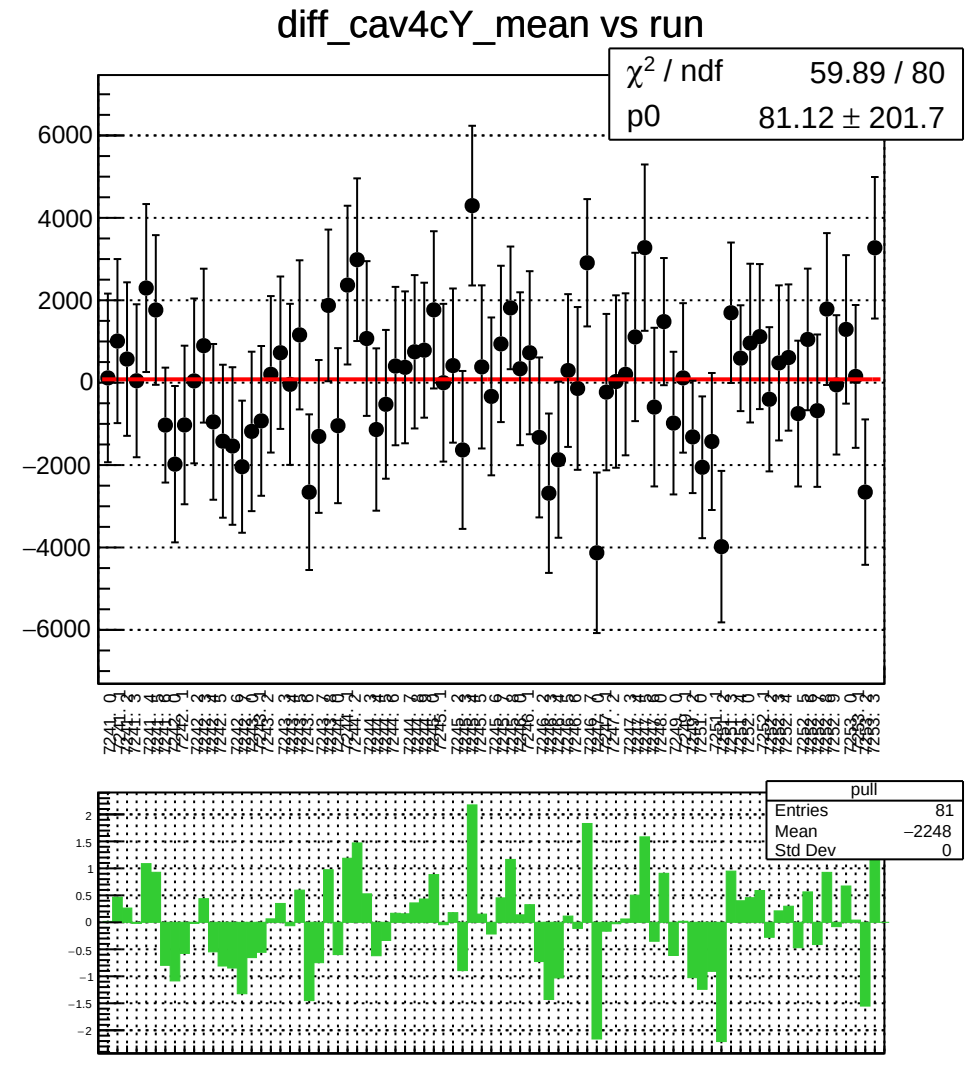

pull1D
Entries 81
Mean 0.0002745
Std Dev 0.8701
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

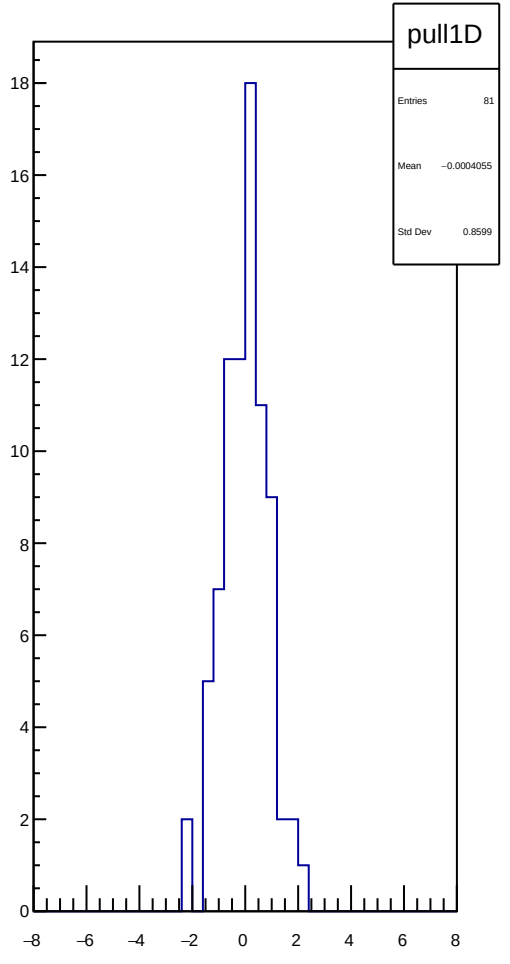

diff_cav4bY_rms vs run
×10^3
370
360
350
340
330
320
310
300
290
χ² / ndf 3207 / 80
p0 3.31e+05 ± 266.2

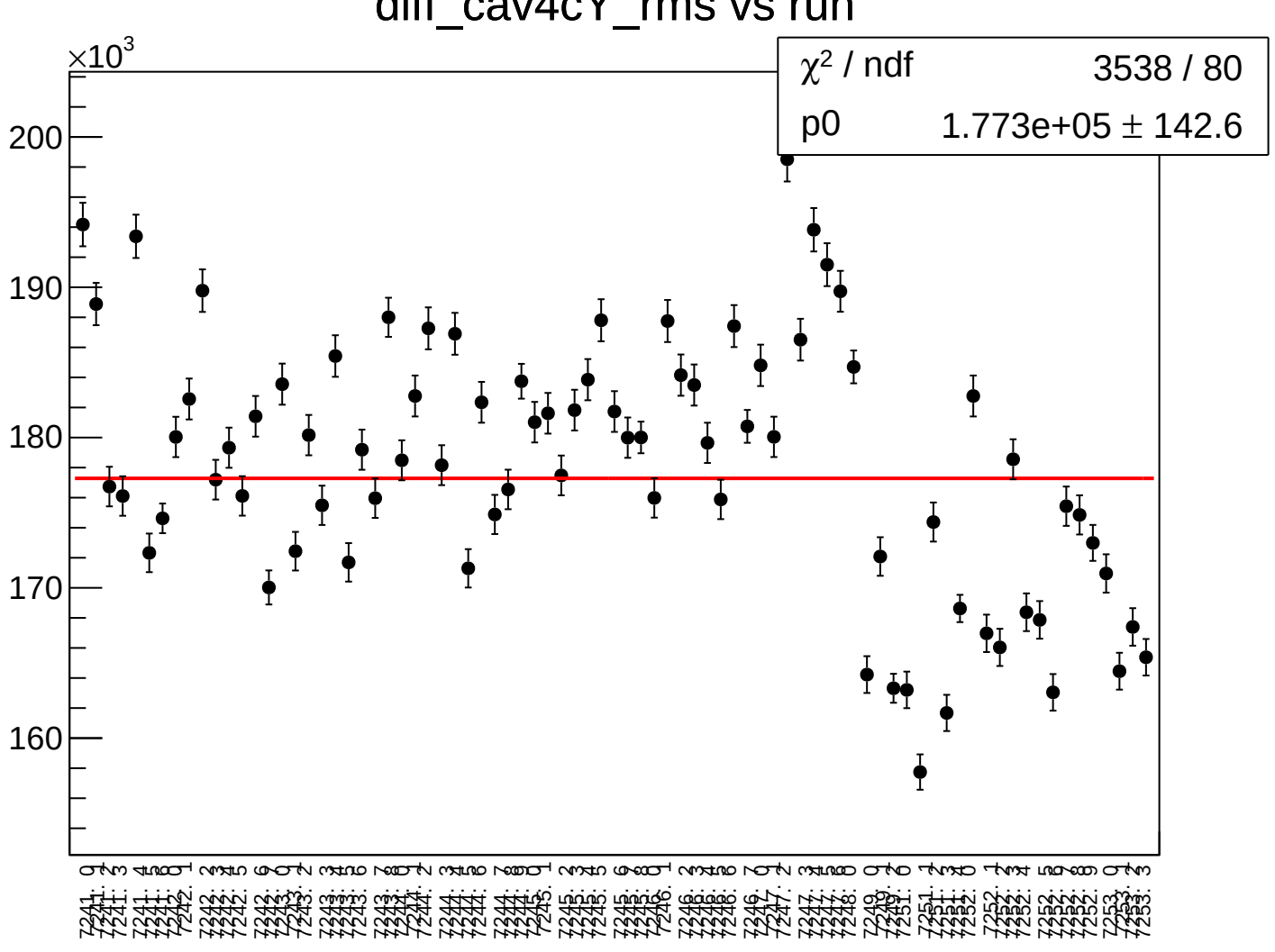

diff_cav4cX_mean vs run
χ^2 / ndf 89.7 / 80
p0 −505 ± 262.7
pull
Entries 81
Mean 87.9
Std Dev 0

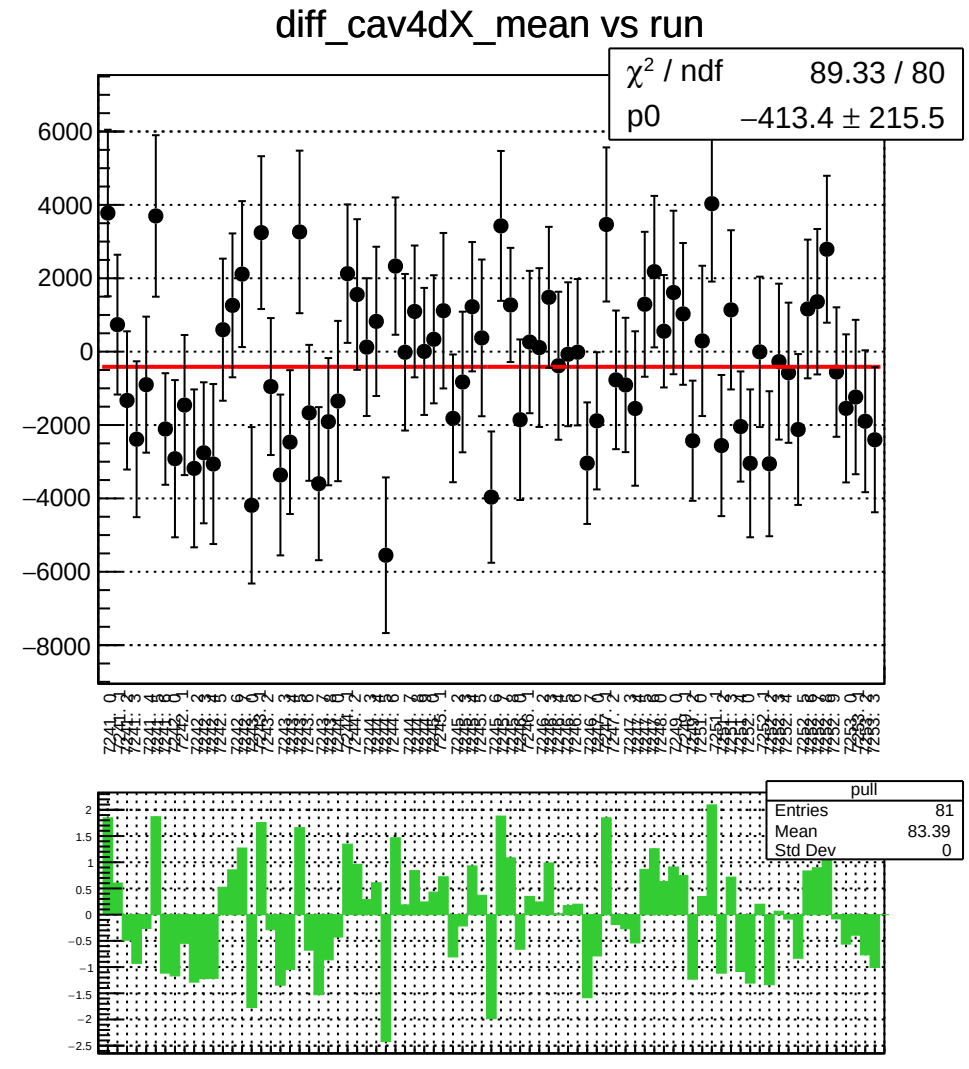

pull1D
Entries 81
Mean 0.01561
Std Dev 1.052

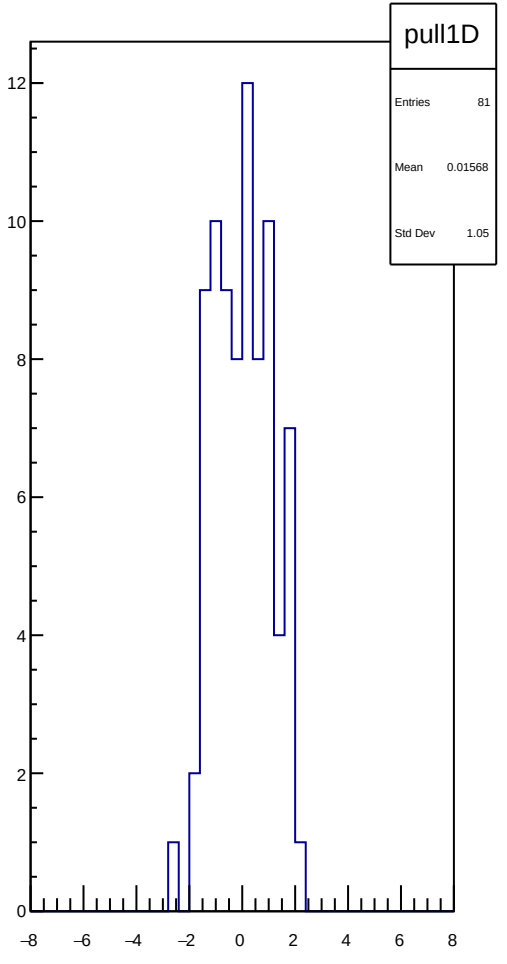

diff_cav4cX_rms vs run
×10^3
270
260
250
240
230
220
210
200
χ² / ndf 5948 / 80
p0 2.307e+05 ± 185.7

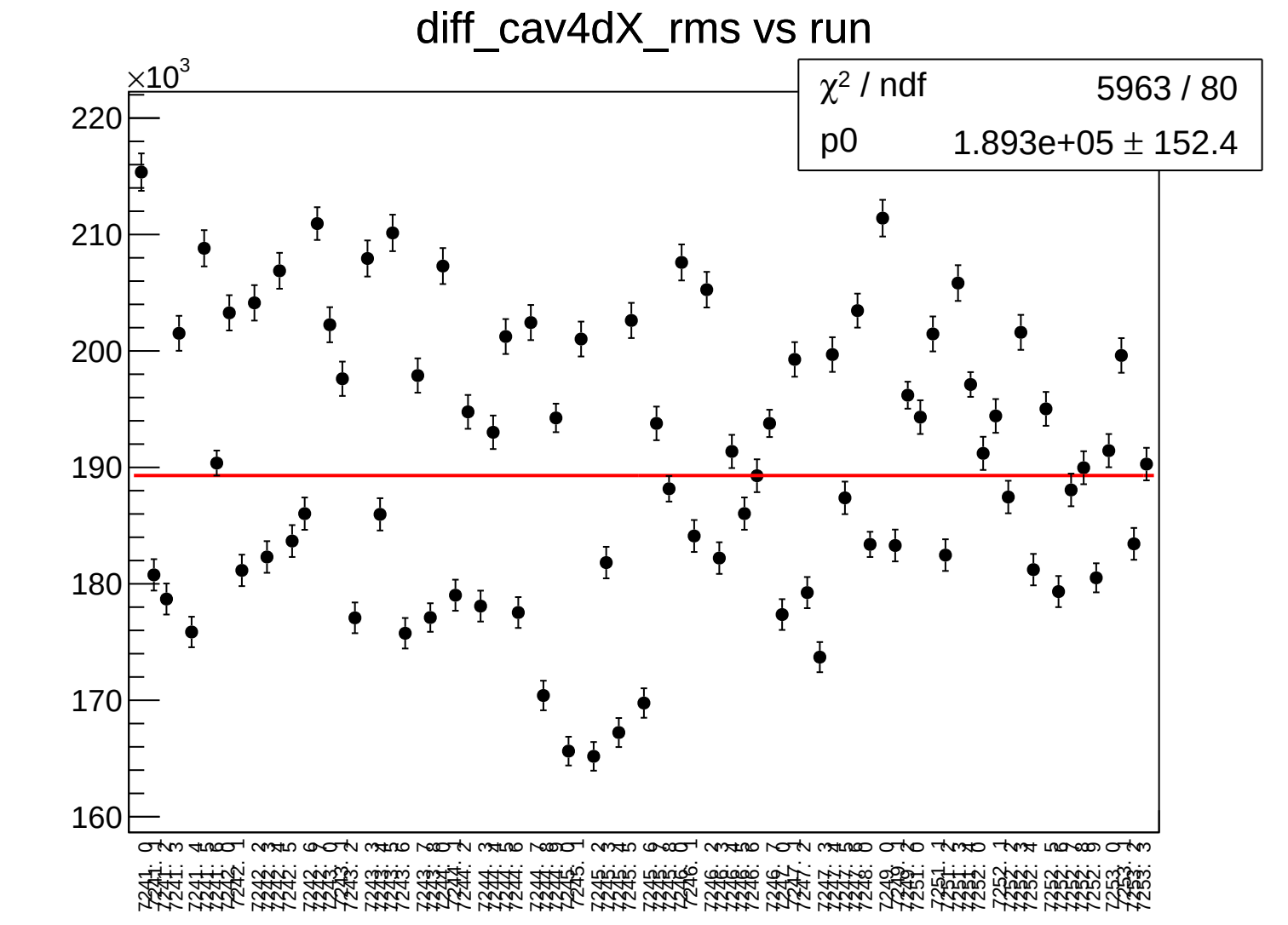

diff_cav4cY_mean vs run
χ^2 / ndf 59.89 / 80
p0 81.12 ± 201.7
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 81
Mean −2248
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

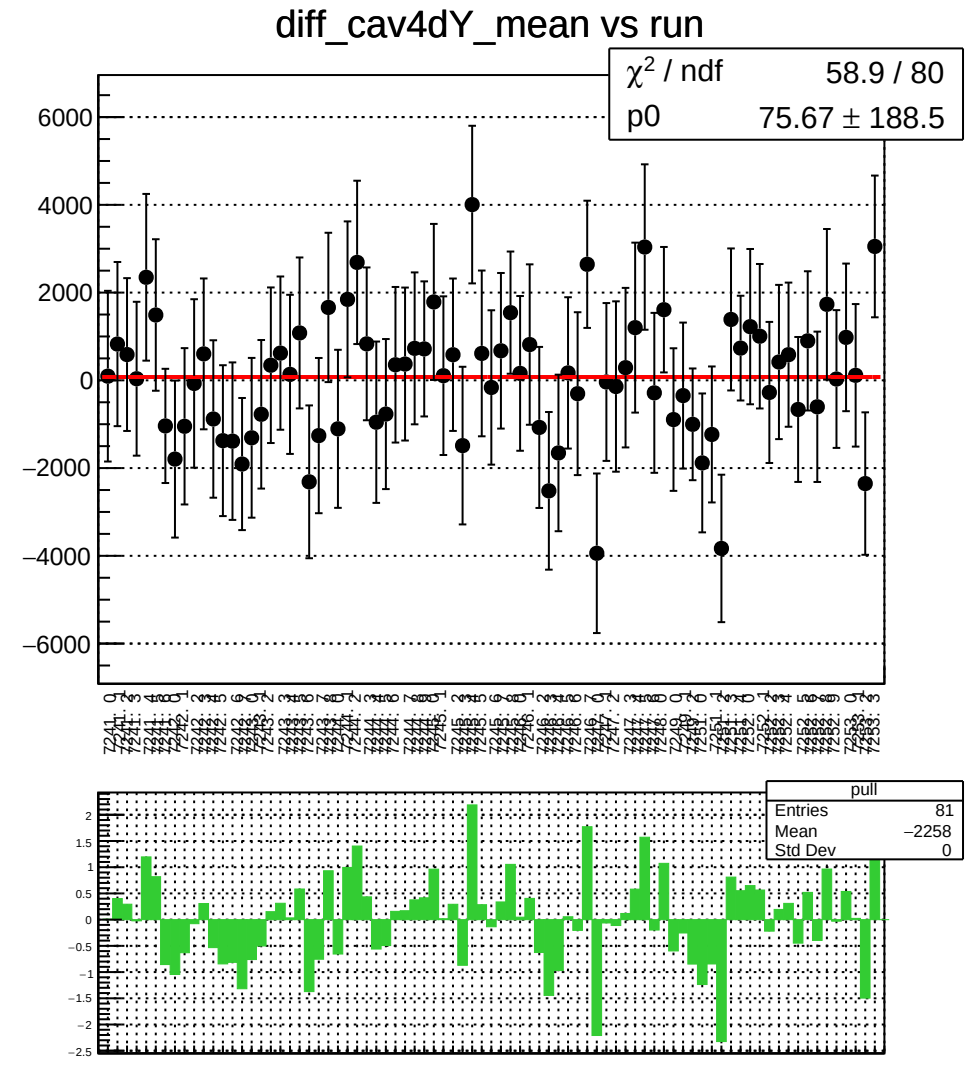

pull1D
Entries 81
Mean −0.0004055
Std Dev 0.8599
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

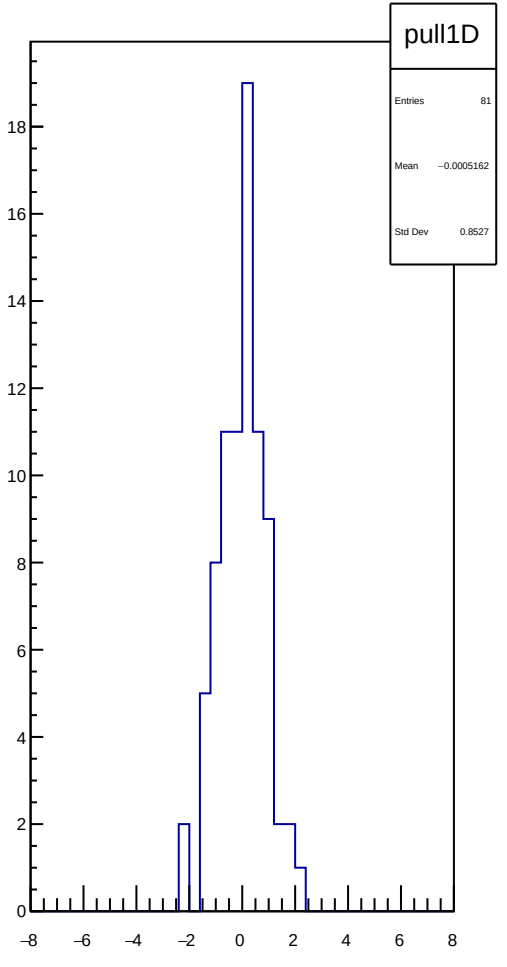

diff_cav4cY_rms vs run
×10^3
χ² / ndf 3538 / 80
p0 1.773e+05 ± 142.6
200
190
180
170
160

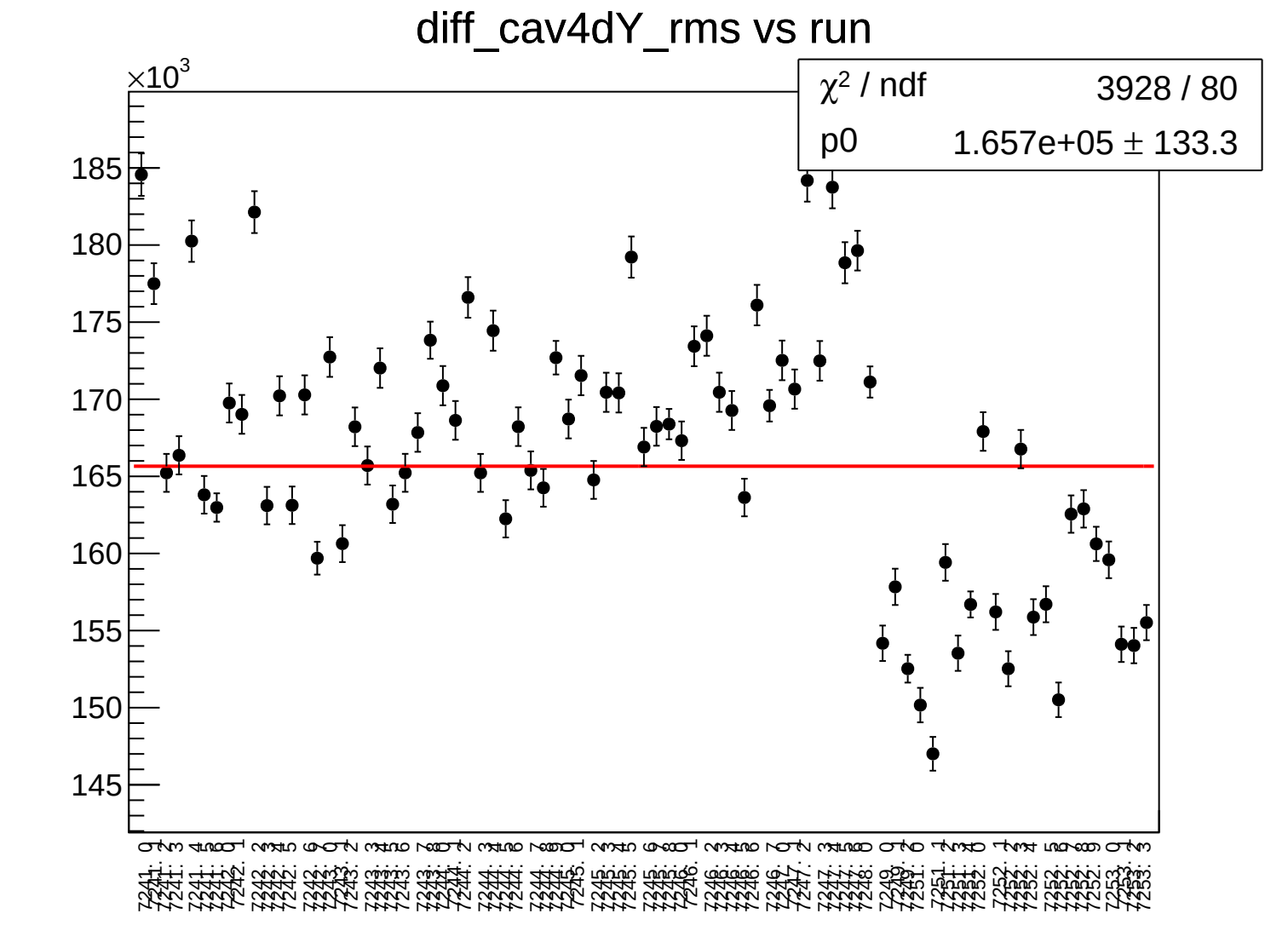

diff_cav4dX_mean vs run
χ² / ndf 89.33 / 80
p0 −413.4 ± 215.5
pull
Entries 81
Mean 83.39
Std Dev 0

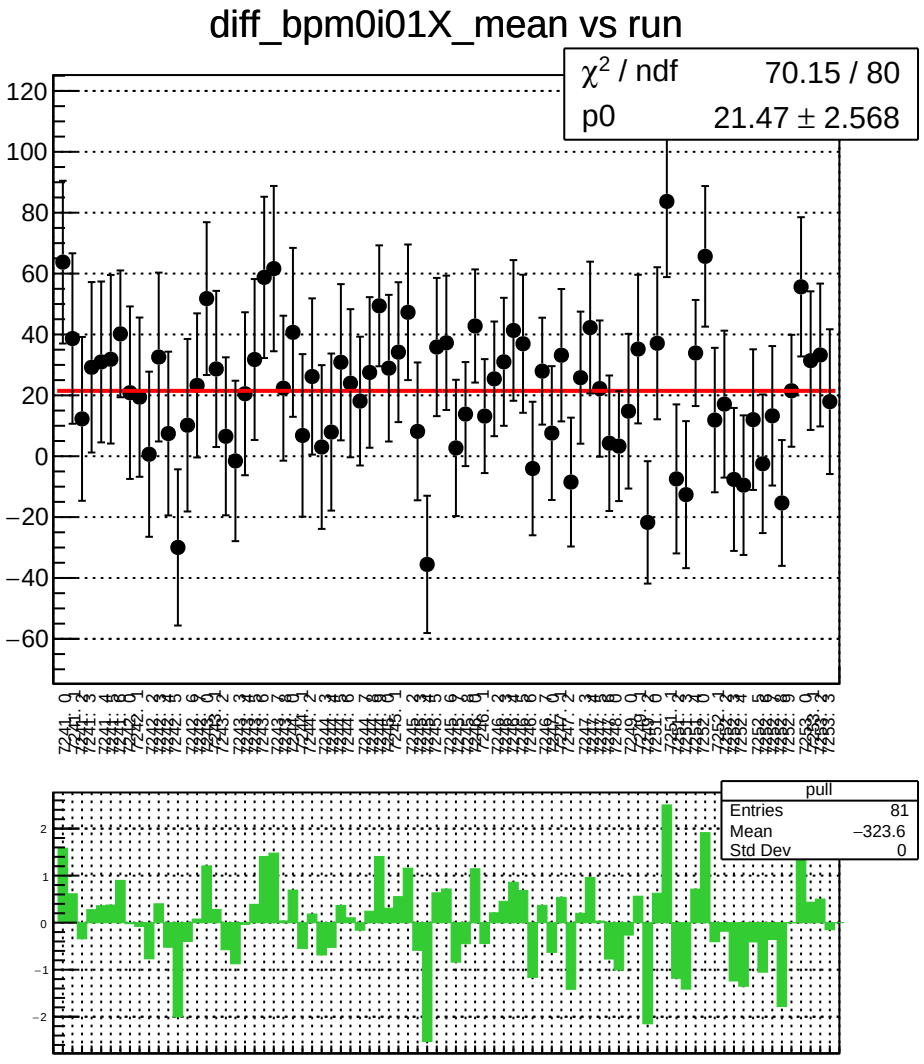

pull1D
Entries 81
Mean 0.01568
Std Dev 1.05

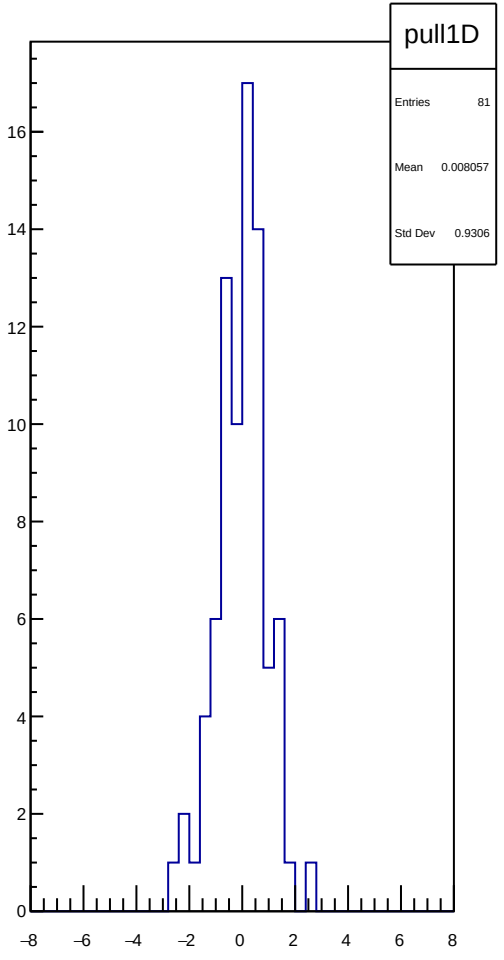

diff_cav4dX_rms vs run
×10^3
220
210
200
190
180
170
160
χ² / ndf 5963 / 80
p0 1.893e+05 ± 152.4

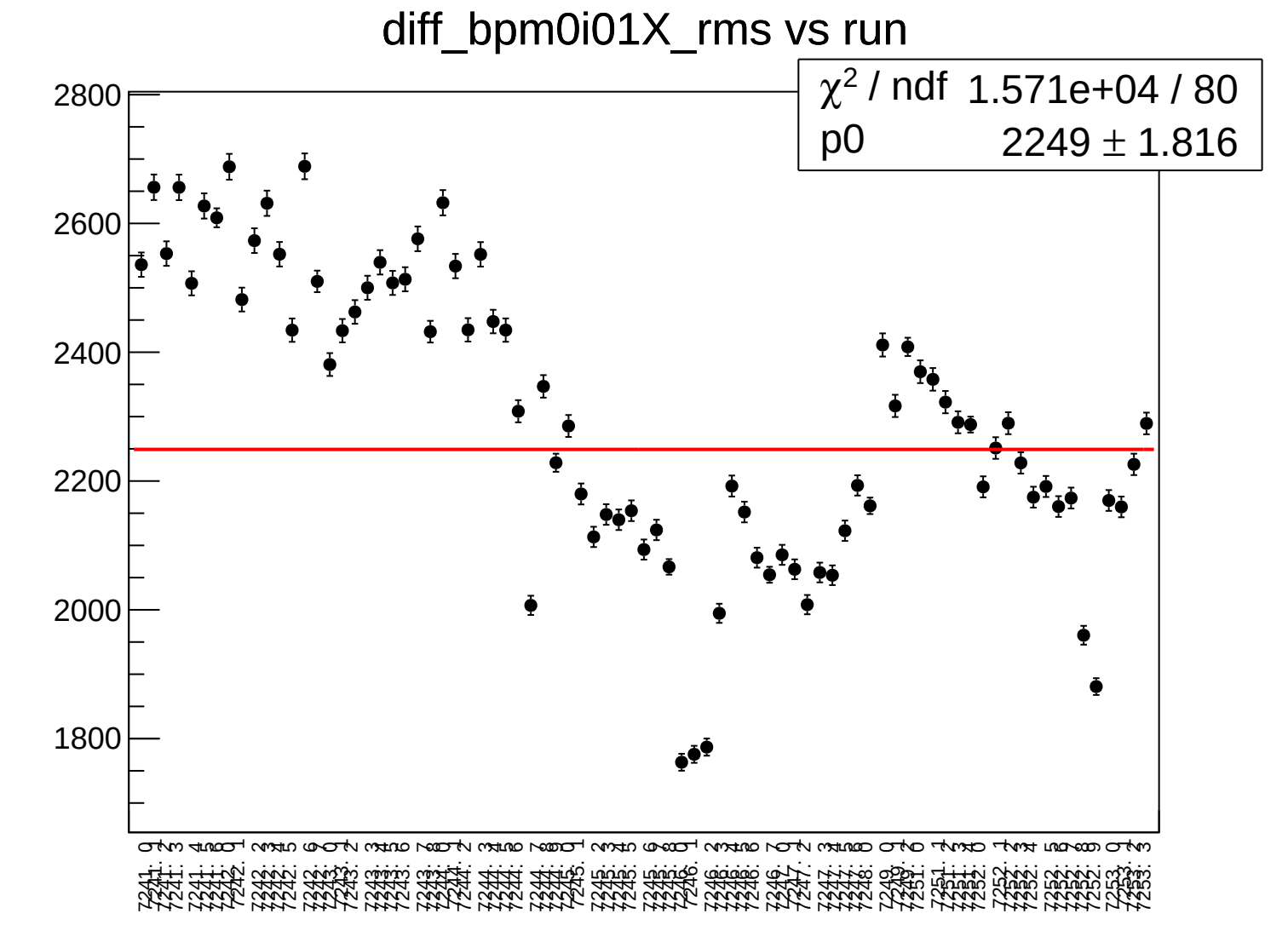

diff_cav4dY_mean vs run
χ^2 / ndf 58.9 / 80
p0 75.67 ± 188.5
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 81
Mean −2258
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

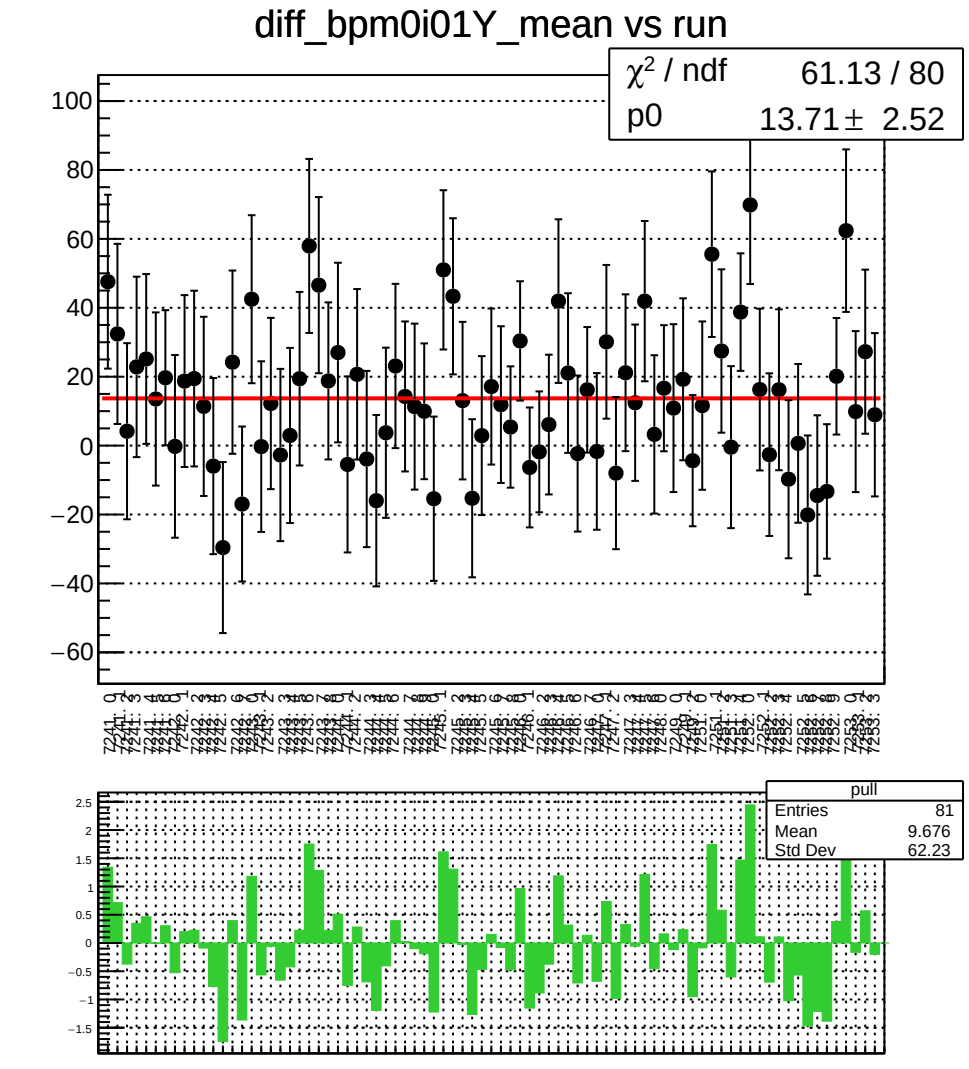

pull1D
Entries 81
Mean −0.0005162
Std Dev 0.8527
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

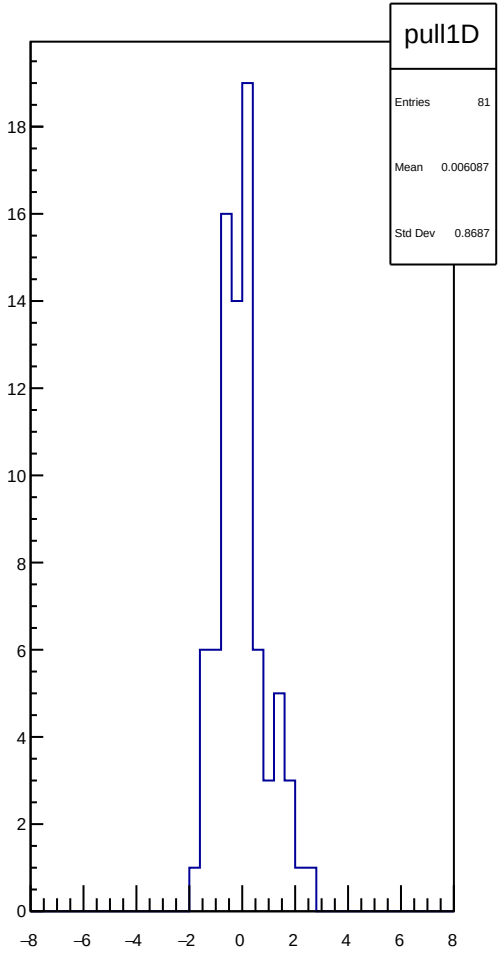

diff_cav4dY_rms vs run
×10^3
χ² / ndf 3928 / 80
p0 1.657e+05 ± 133.3
185
180
175
170
165
160
155
150
145

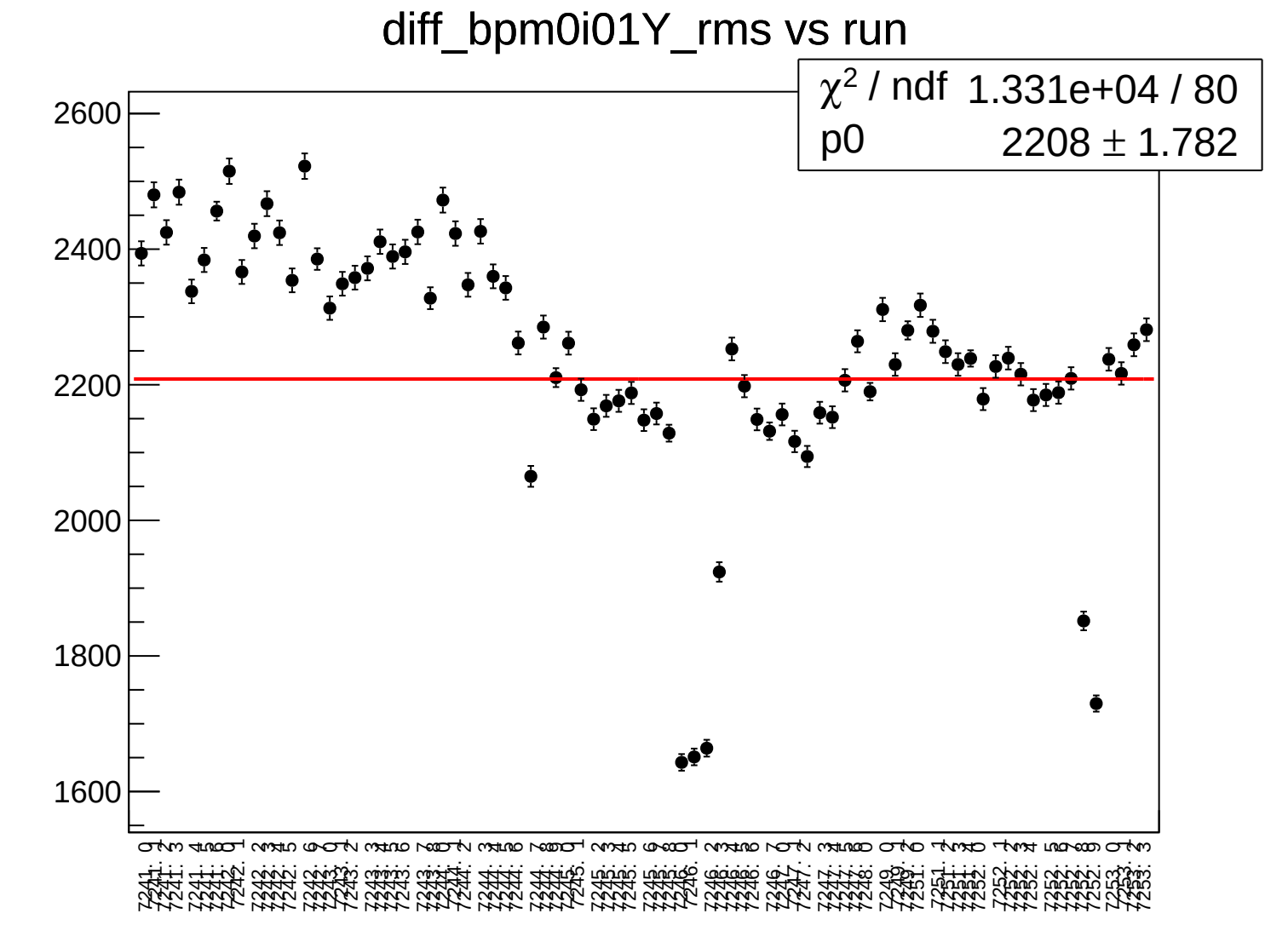

diff_bpm0i01X_mean vs run
χ^2 / ndf 70.15 / 80
p0 21.47 ± 2.568
pull
Entries 81
Mean −323.6
Std Dev 0

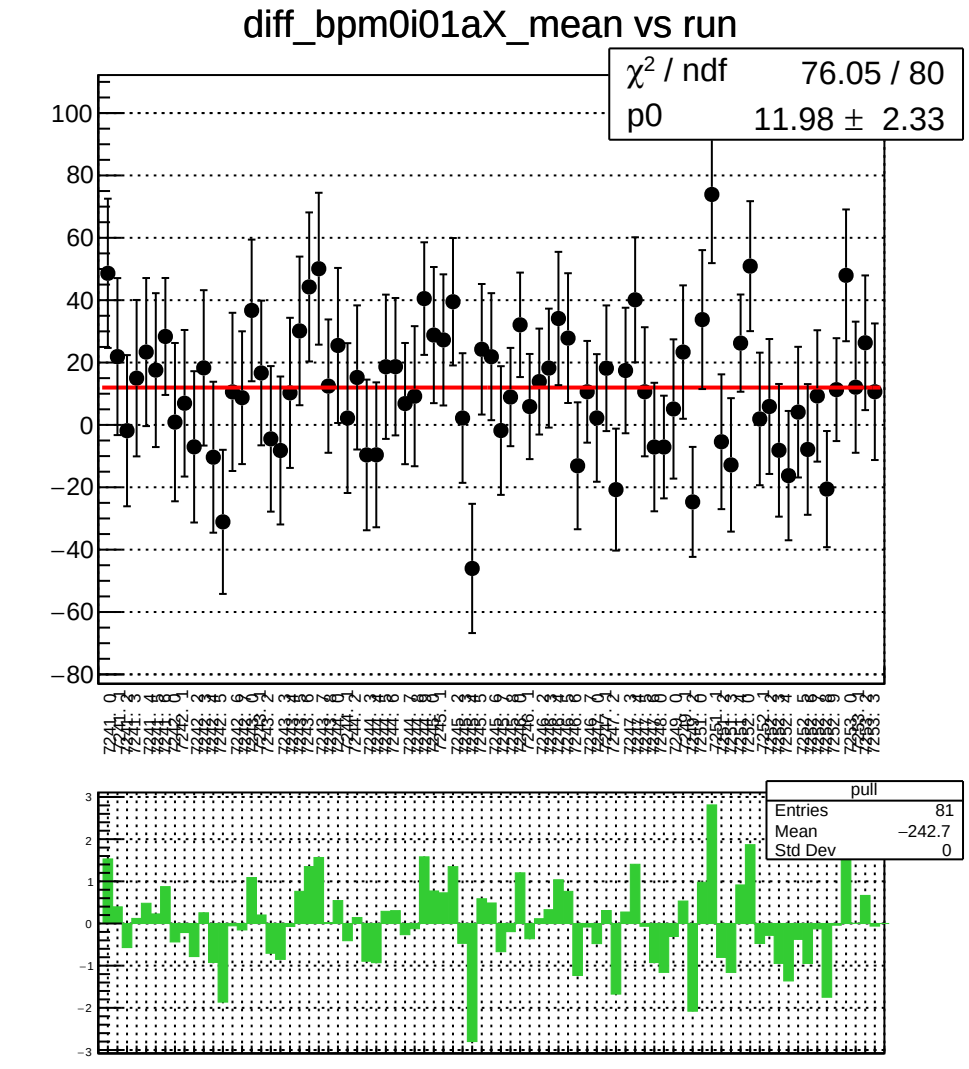

pull1D
Entries 81
Mean 0.008057
Std Dev 0.9306

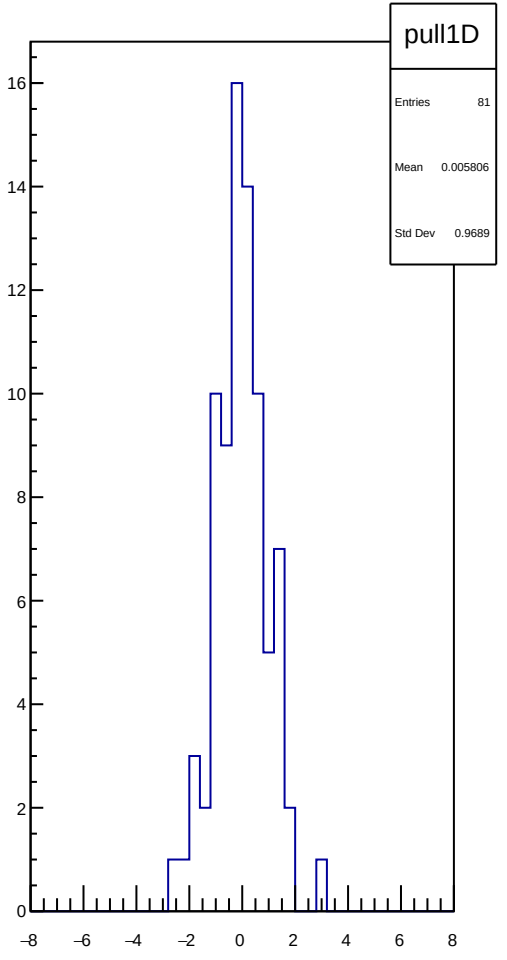

diff_bpm0i01X_rms vs run
χ² / ndf 1.571e+04 / 80
p0 2249 ± 1.816
2800
2600
2400
2200
2000
1800

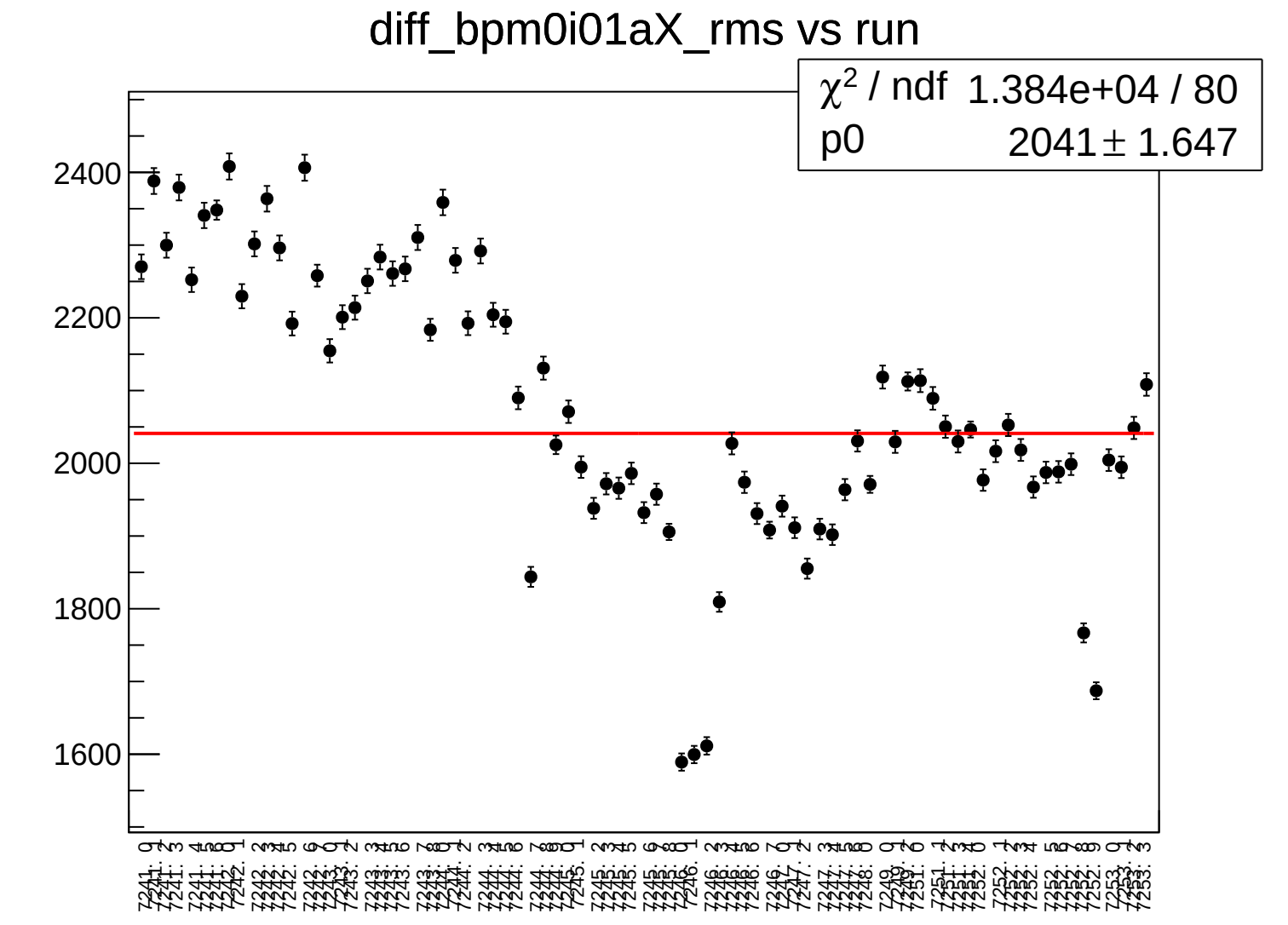

diff_bpm0i01Y_mean vs run
χ² / ndf 61.13 / 80
p0 13.71 ± 2.52
pull
Entries 81
Mean 9.676
Std Dev 62.23

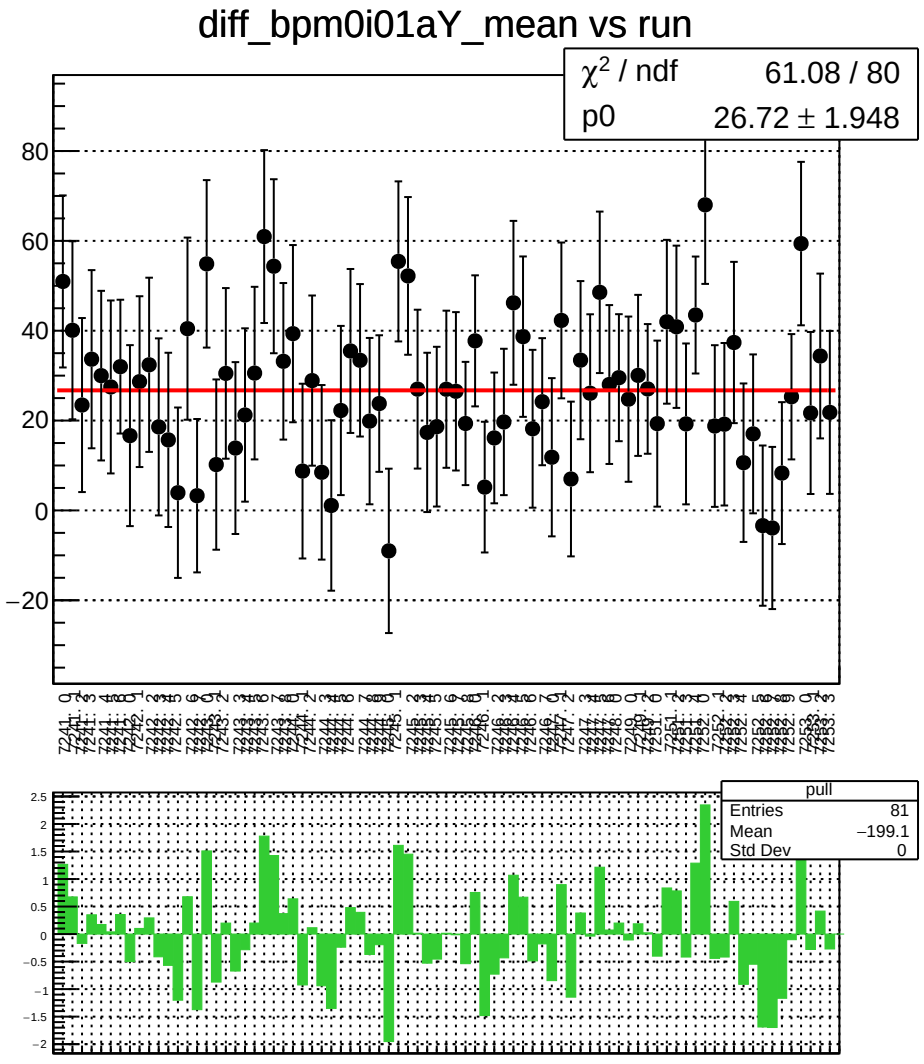

pull1D
Entries 81
Mean 0.006087
Std Dev 0.8687

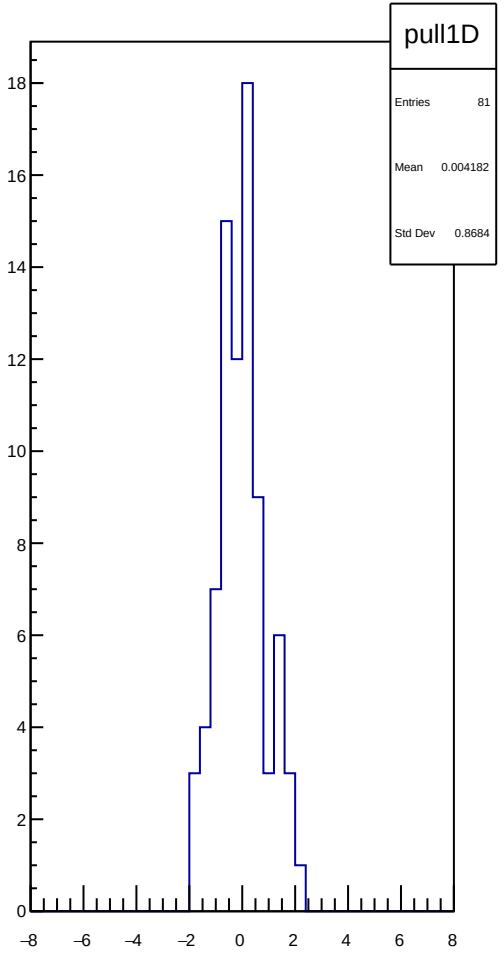

diff_bpm0i01Y_rms vs run
χ² / ndf 1.331e+04 / 80
p0 2208 ± 1.782
2600
2400
2200
2000
1800
1600

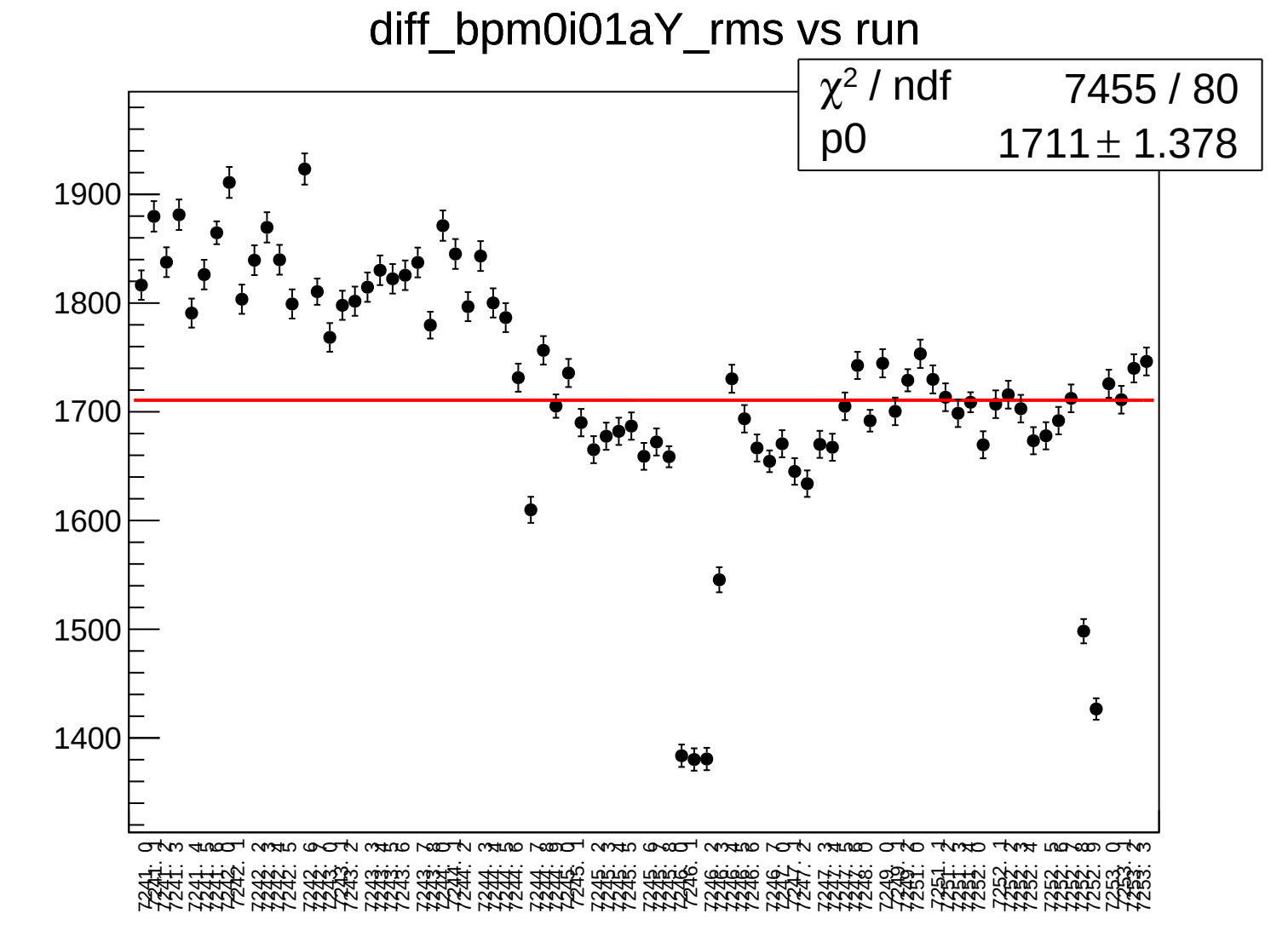

diff_bpm0i01aX_mean vs run
χ² / ndf 76.05 / 80
p0 11.98 ± 2.33
pull
Entries 81
Mean −242.7
Std Dev 0

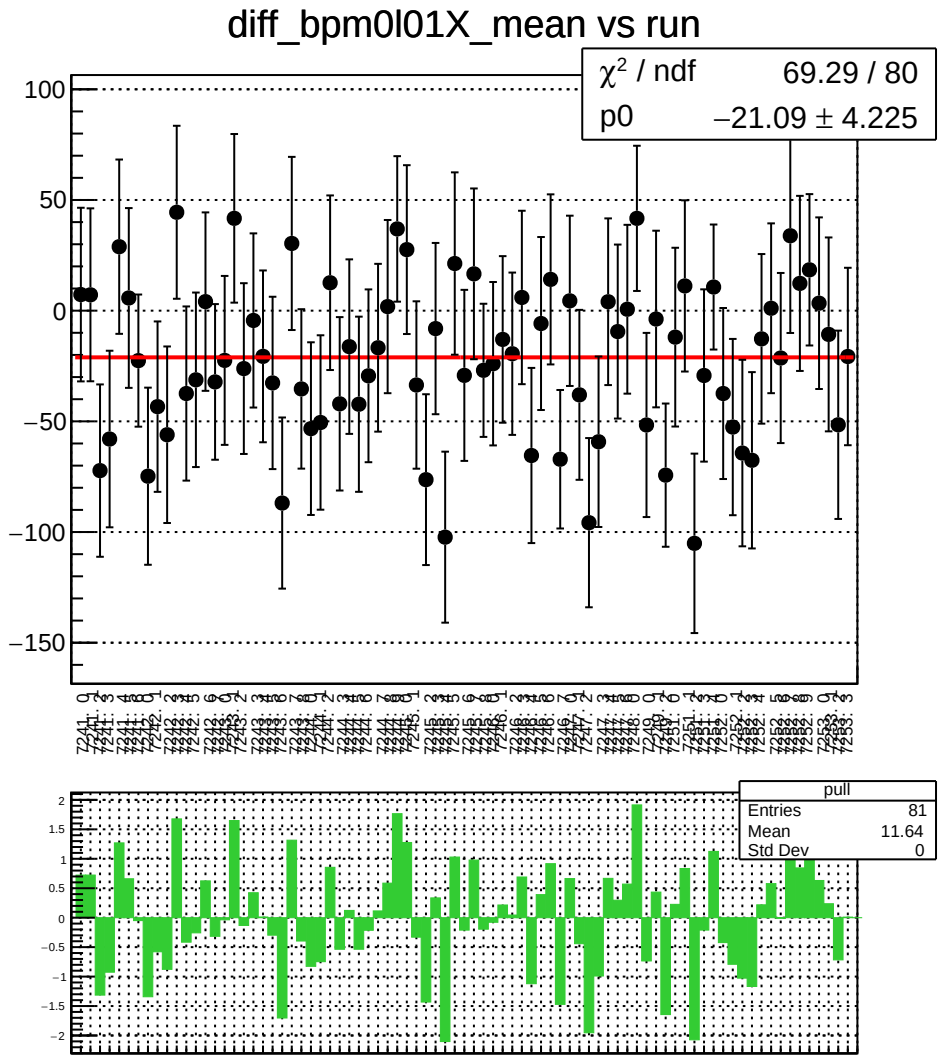

pull1D
Entries 81
Mean 0.005806
Std Dev 0.9689

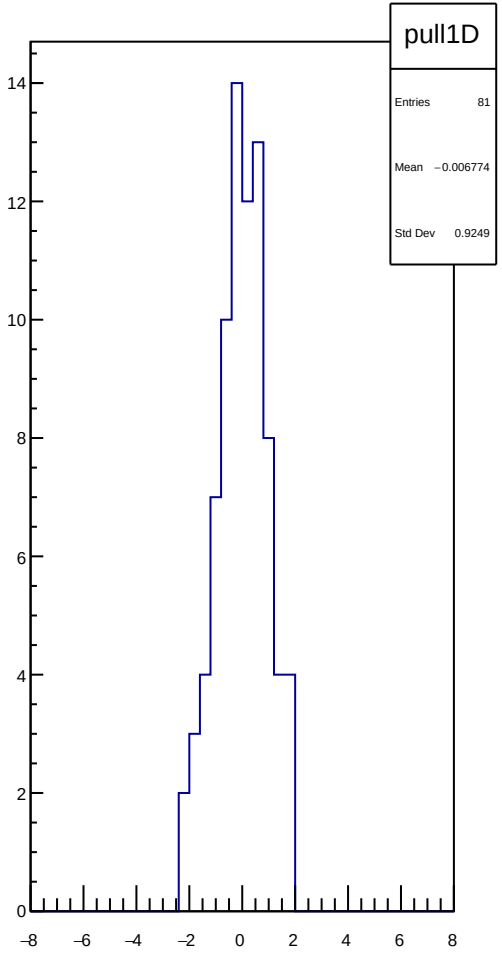

diff_bpm0i01aX_rms vs run
χ² / ndf 1.384e+04 / 80
p0 2041 ± 1.647
2400
2200
2000
1800
1600

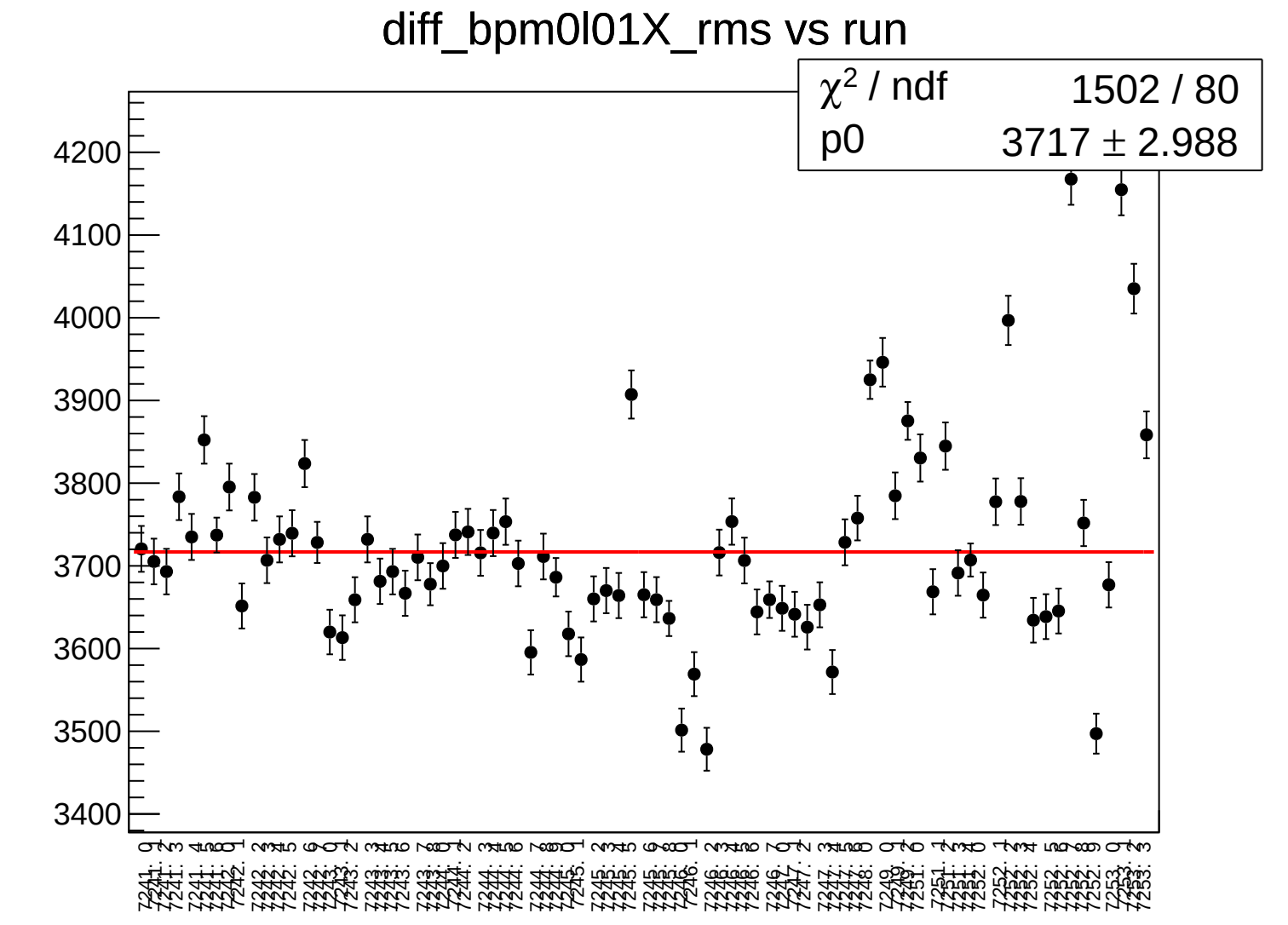

diff_bpm0i01aY_mean vs run
χ^2 / ndf 61.08 / 80
p0 26.72 ± 1.948
pull
Entries 81
Mean −199.1
Std Dev 0

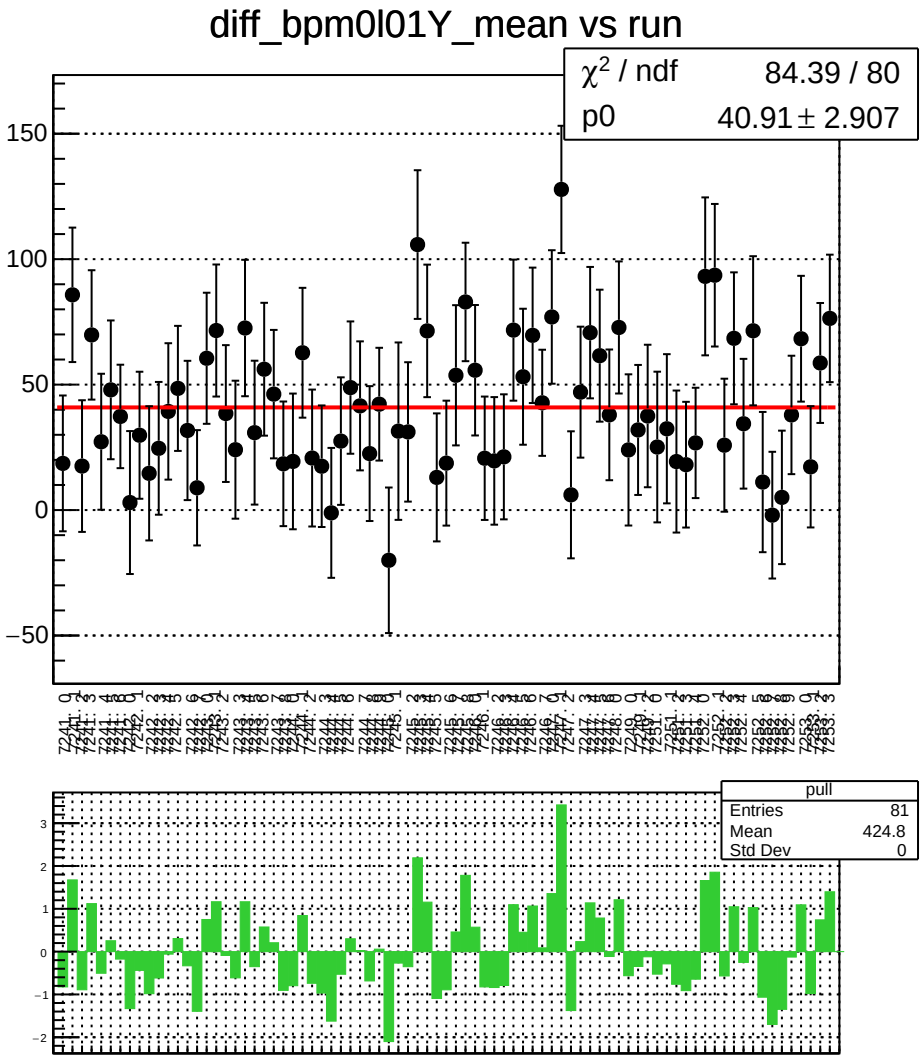

pull1D
Entries 81
Mean 0.004182
Std Dev 0.8684

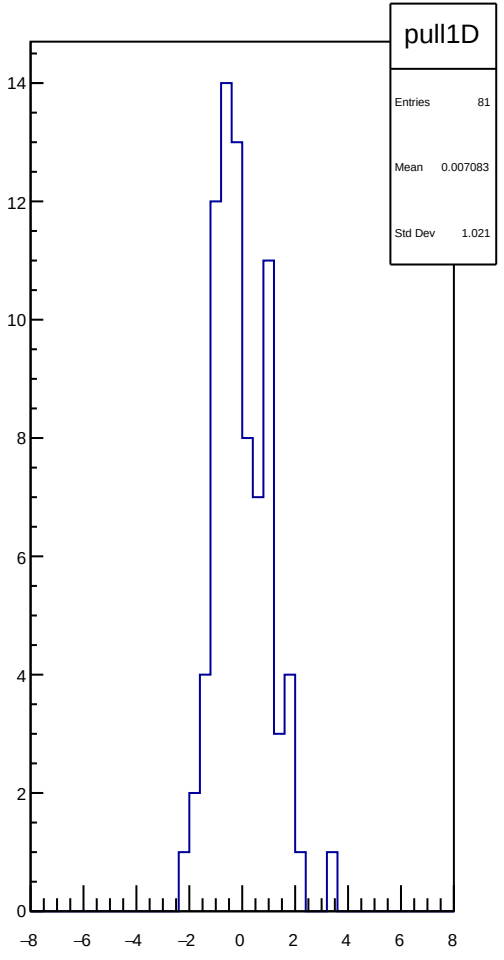

diff_bpm0i01aY_rms vs run
χ² / ndf 7455 / 80
p0 1711 ± 1.378
1900
1800
1700
1600
1500
1400

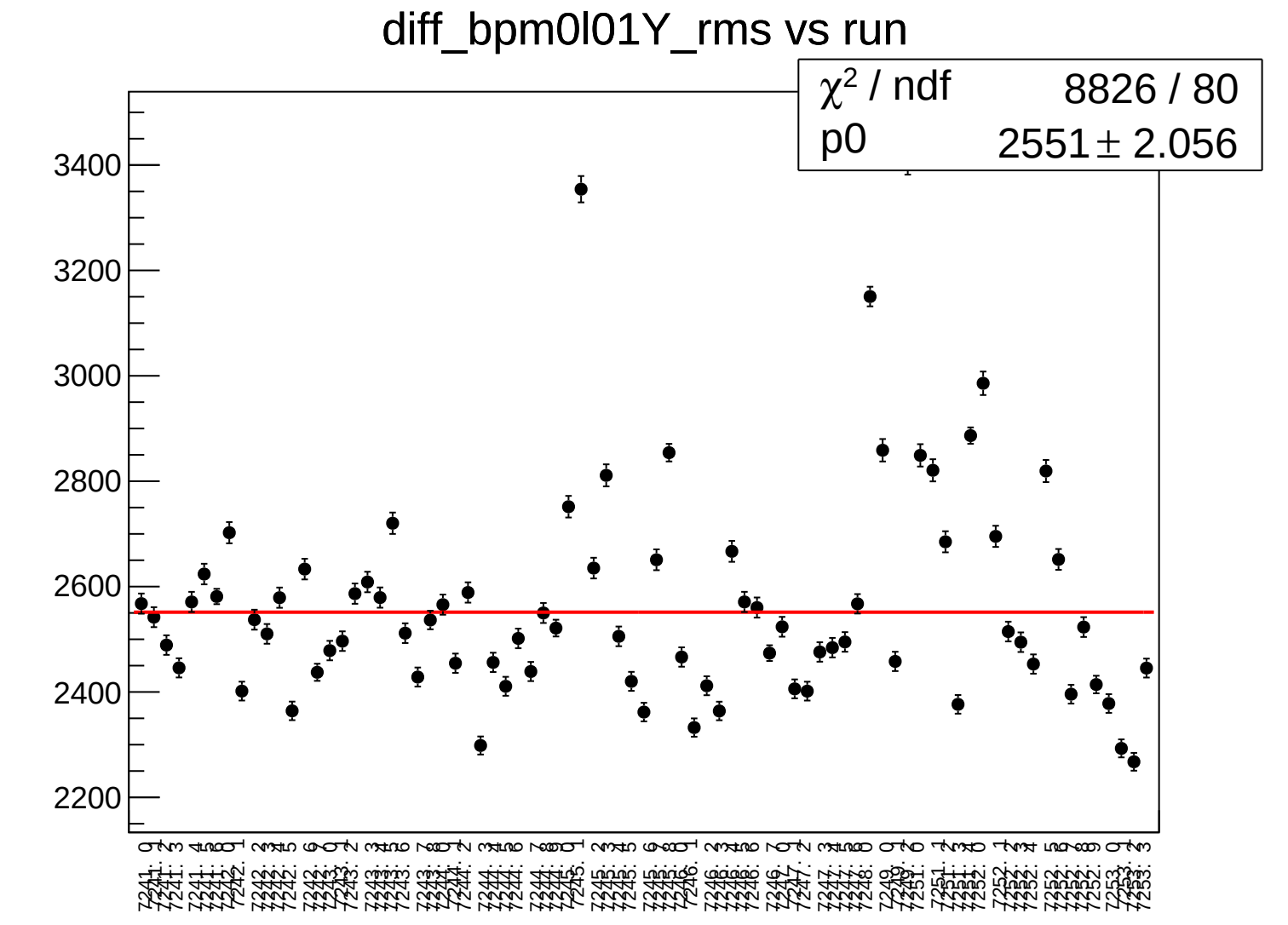

diff_bpm0l01X_mean vs run
χ^2 / ndf 69.29 / 80
p0 −21.09 ± 4.225
pull
Entries 81
Mean 11.64
Std Dev 0

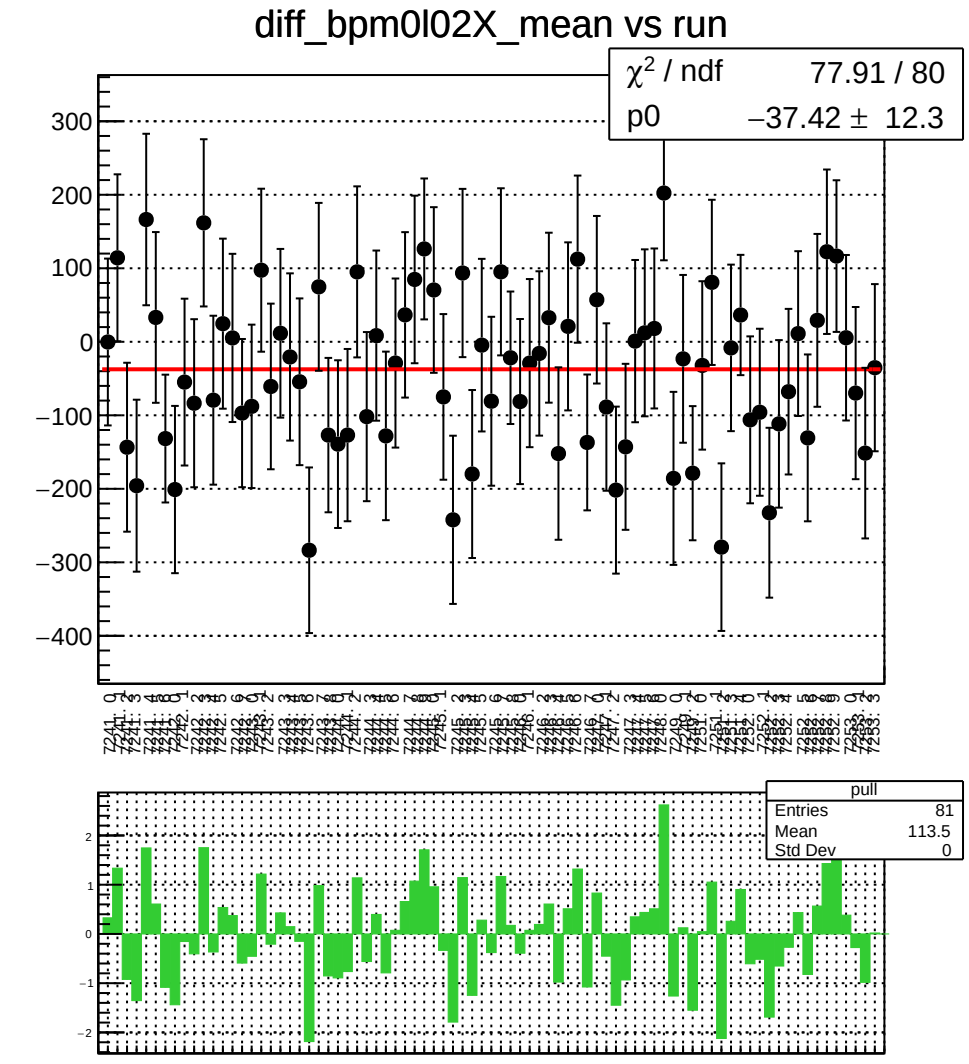

pull1D
Entries 81
Mean −0.006774
Std Dev 0.9249

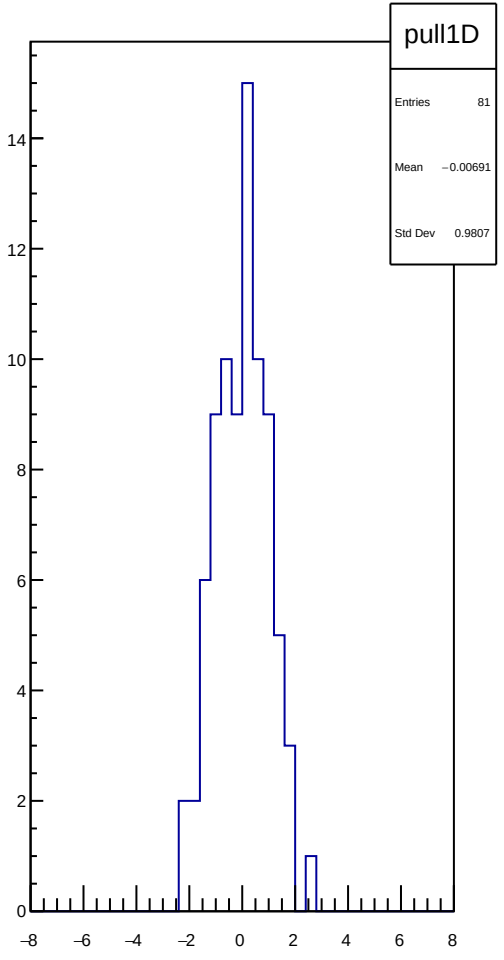

diff_bpm0l01X_rms vs run
χ² / ndf 1502 / 80
p0 3717 ± 2.988
4200
4100
4000
3900
3800
3700
3600
3500
3400

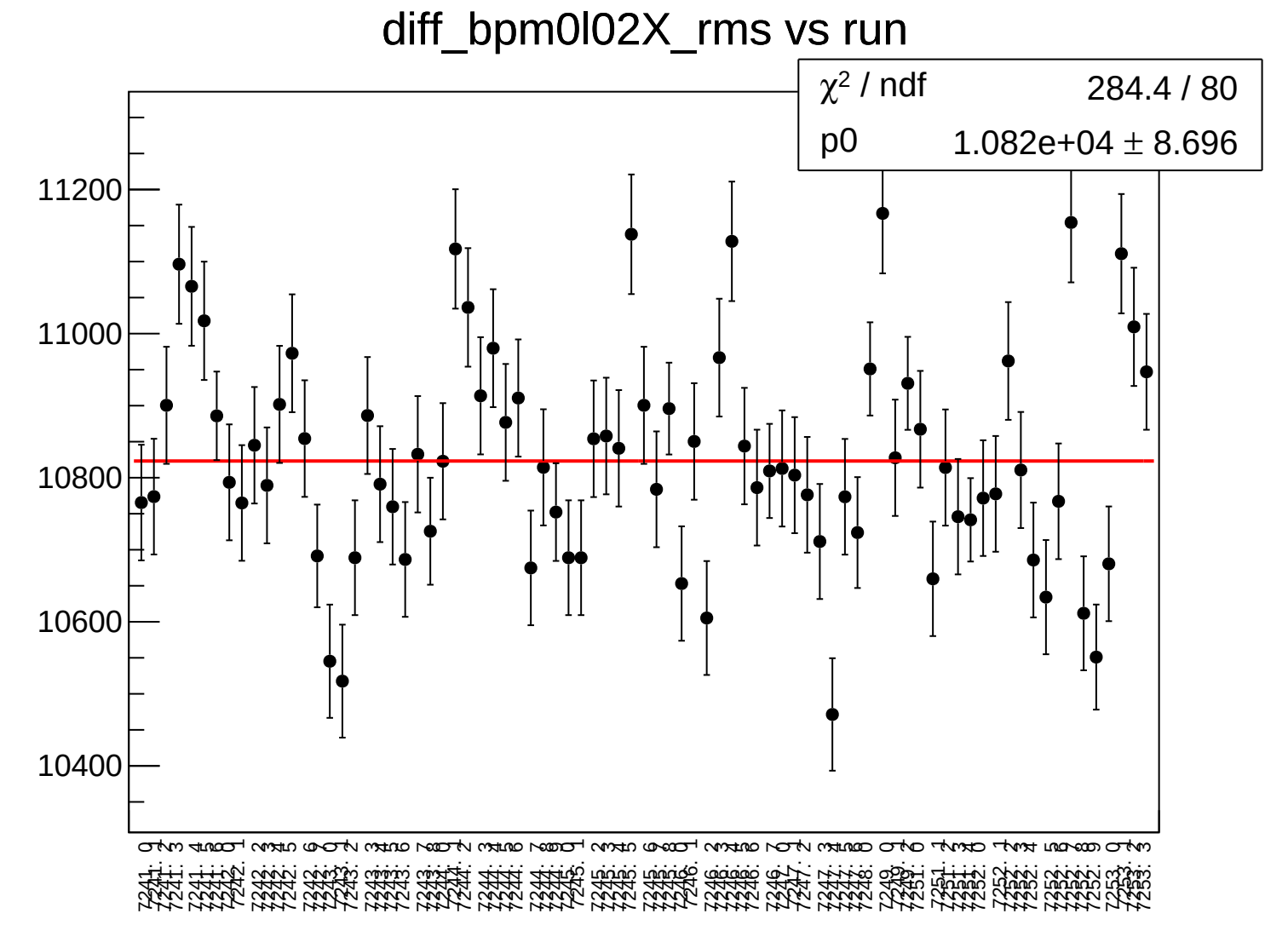

diff_bpm0l01Y_mean vs run
χ² / ndf 84.39 / 80
p0 40.91 ± 2.907
150
100
50
0
−50
pull
Entries 81
Mean 424.8
Std Dev 0
3
2
1
0
−1
−2

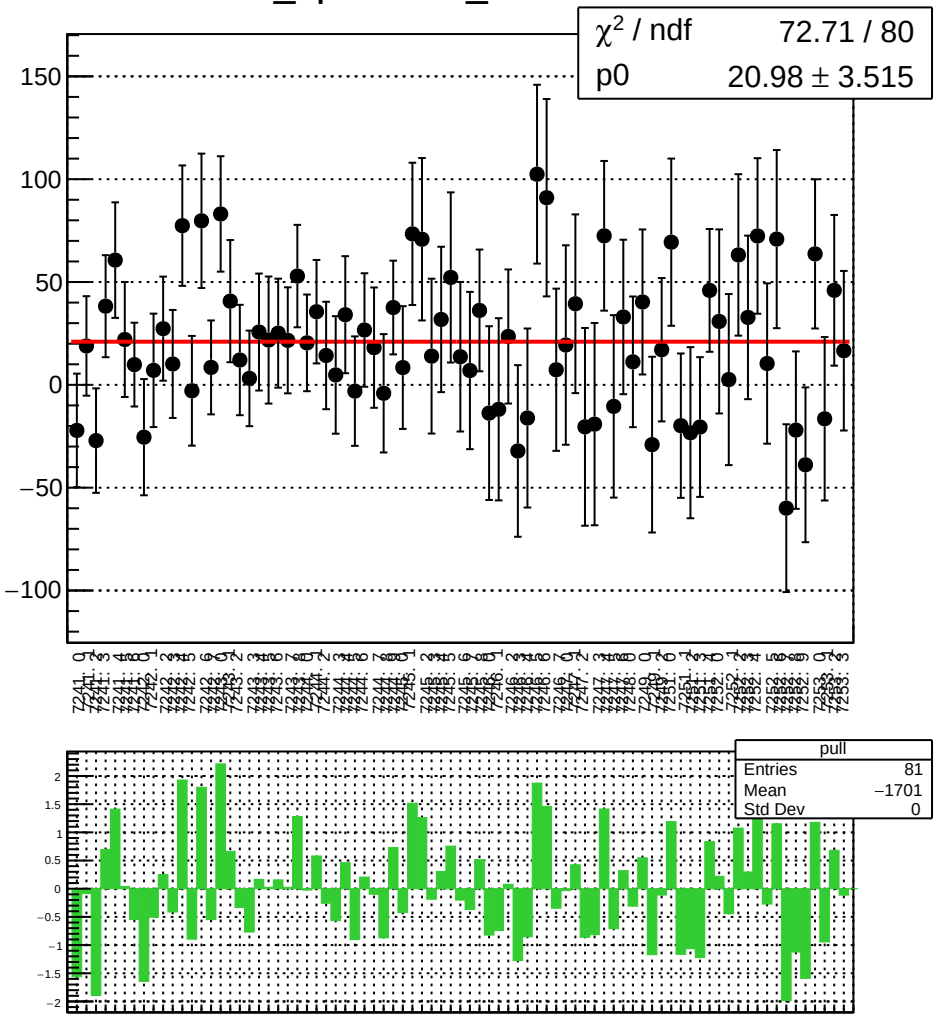

pull1D
Entries 81
Mean 0.007083
Std Dev 1.021
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

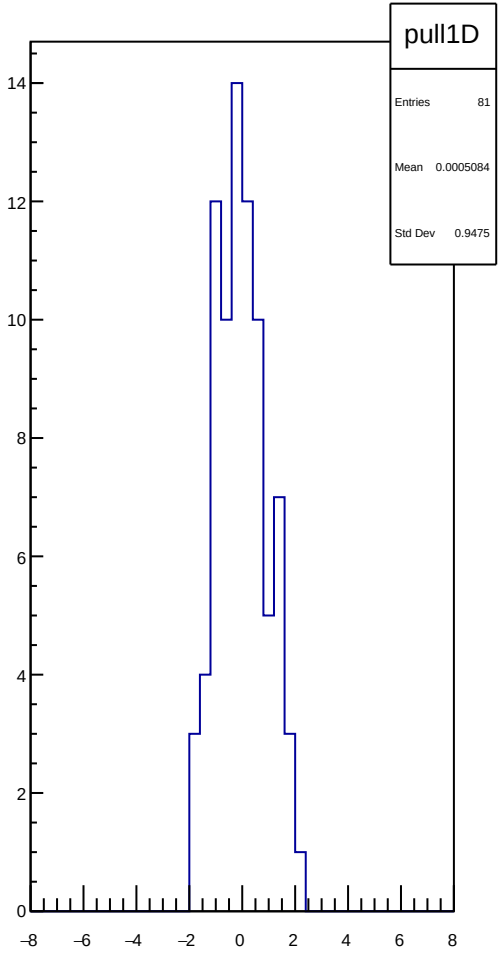

diff_bpm0l01Y_rms vs run
χ² / ndf 8826 / 80
p0 2551 ± 2.056
3400
3200
3000
2800
2600
2400
2200

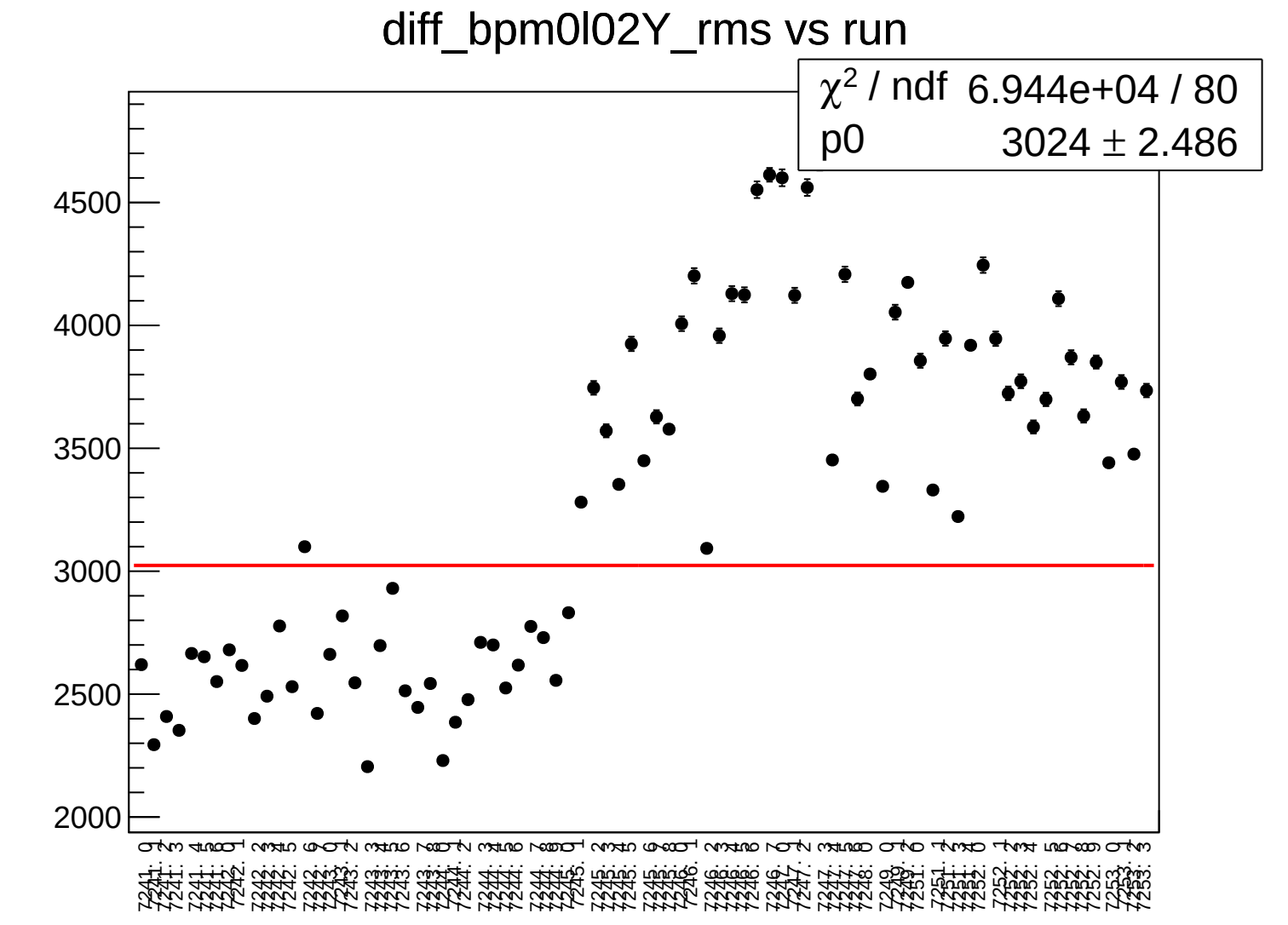

diff_bpm0l02X_mean vs run
χ² / ndf 77.91 / 80
p0 −37.42 ± 12.3
pull
Entries 81
Mean 113.5
Std Dev 0

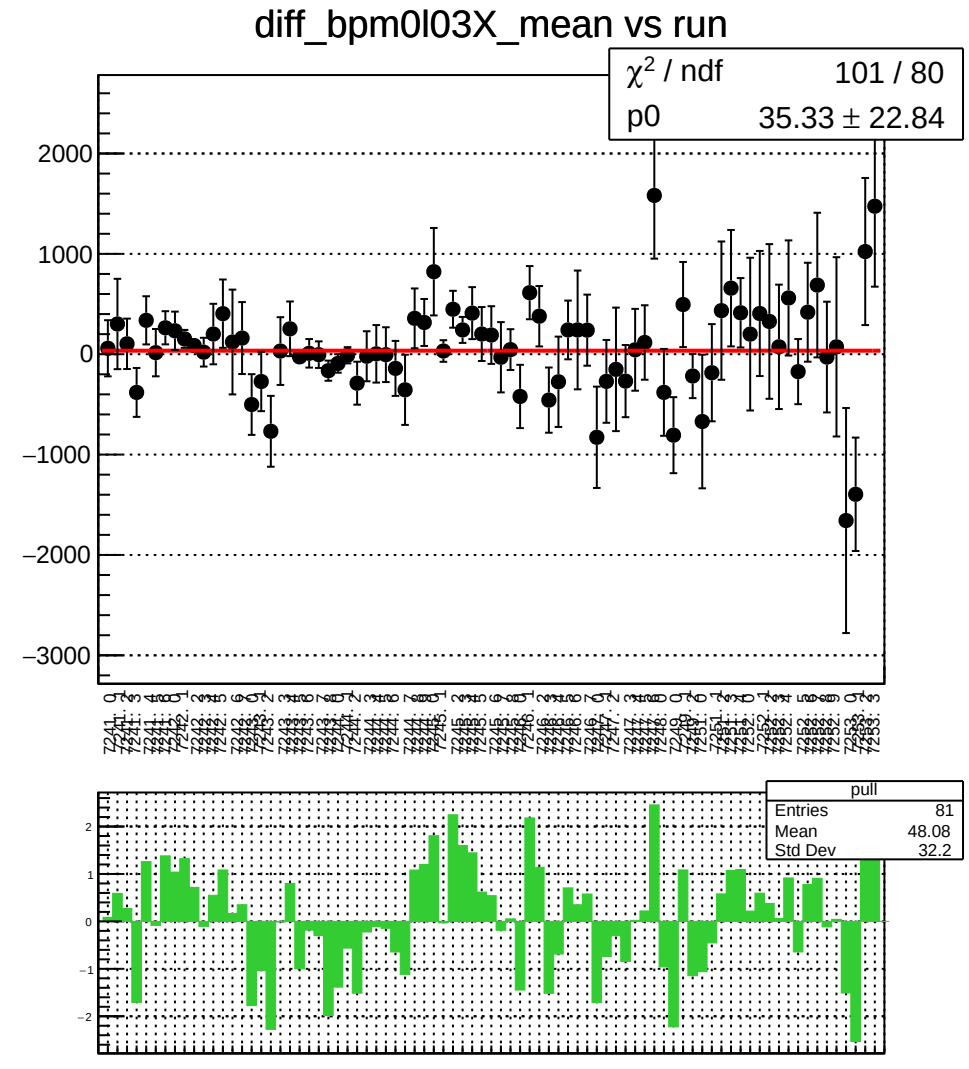

pull1D
Entries 81
Mean −0.00691
Std Dev 0.9807

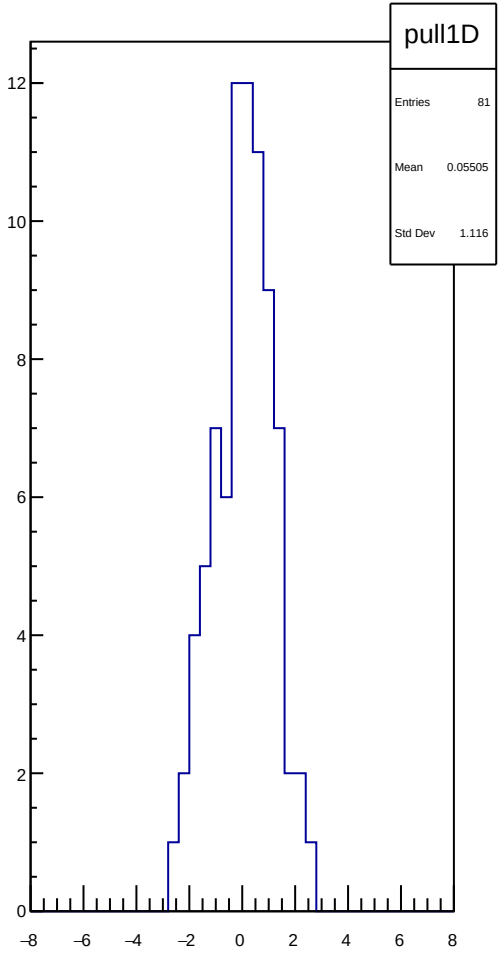

diff_bpm0l02X_rms vs run
χ² / ndf 284.4 / 80
p0 1.082e+04 ± 8.696
11200
11000
10800
10600
10400

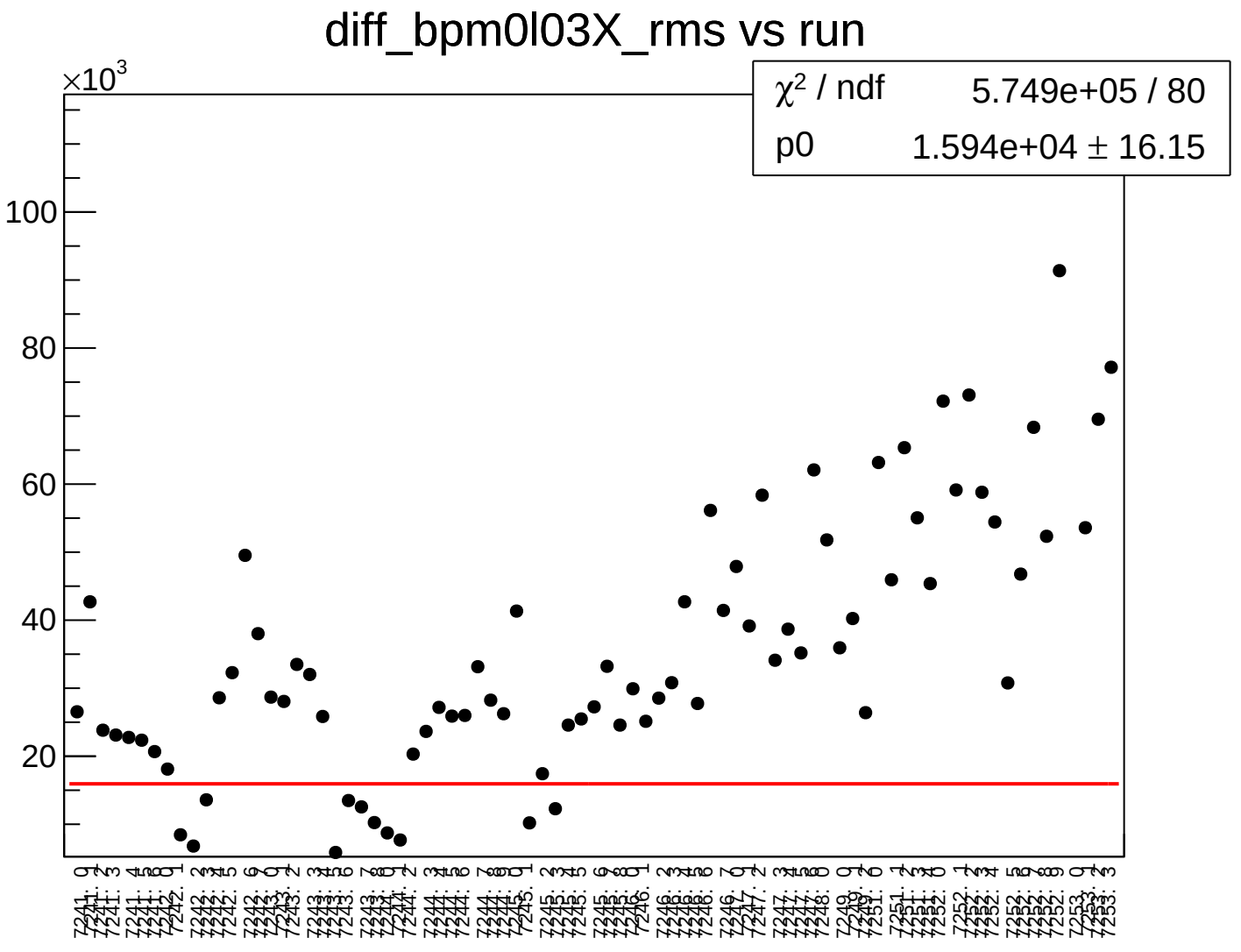

diff_bpm0l02Y_mean vs run
χ² / ndf 72.71 / 80
p0 20.98 ± 3.515
pull
Entries 81
Mean −1701
Std Dev 0

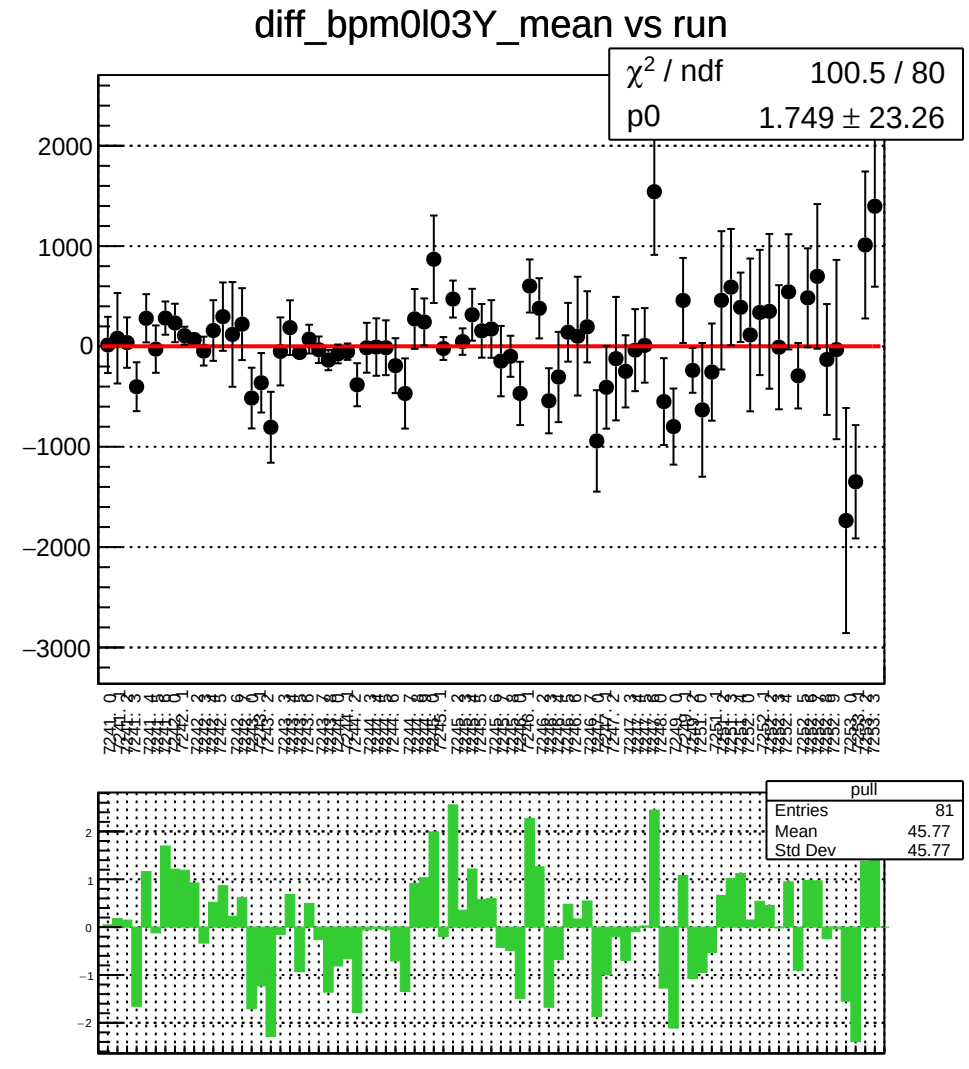

pull1D
Entries 81
Mean 0.0005084
Std Dev 0.9475

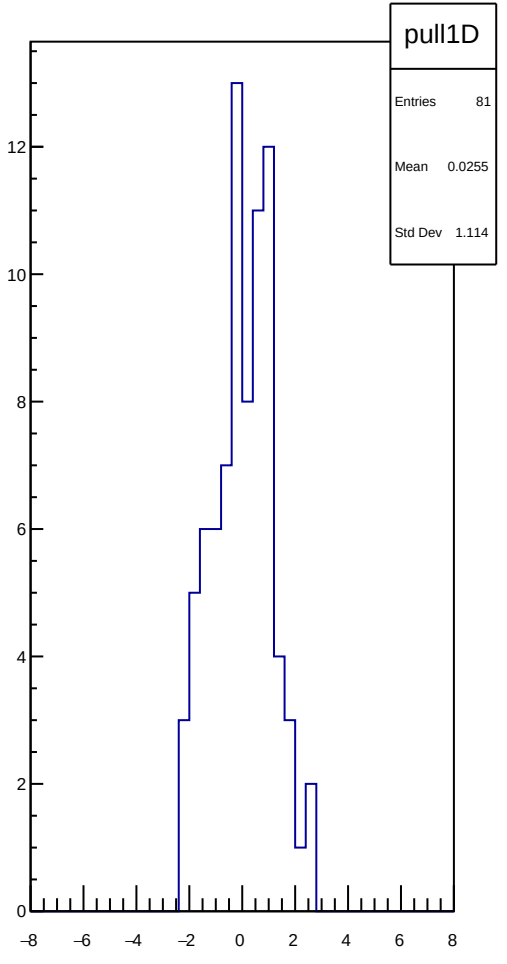

diff_bpm0l02Y_rms vs run
χ² / ndf 6.944e+04 / 80
p0 3024 ± 2.486
4500
4000
3500
3000
2500
2000

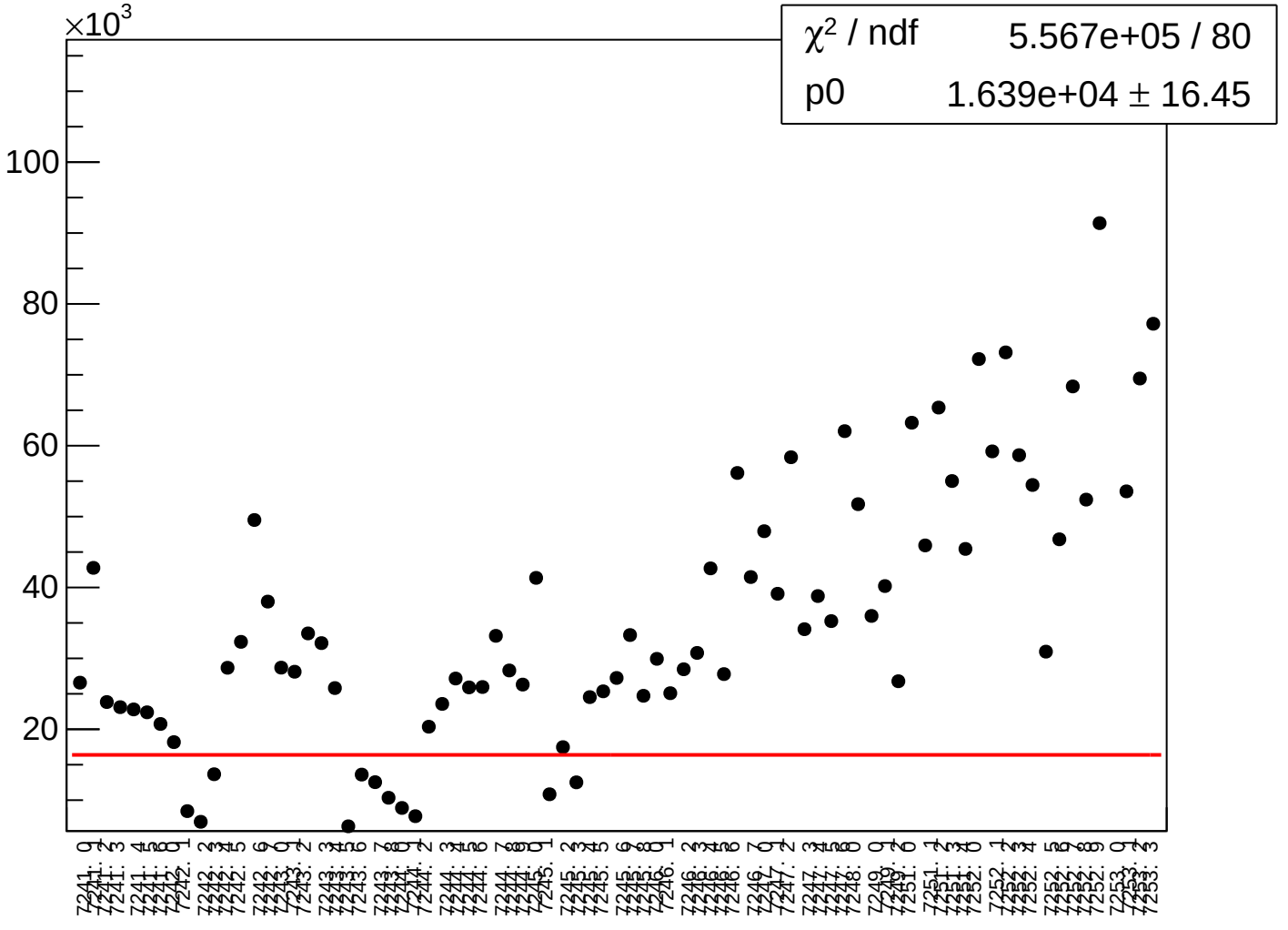

diff_bpm0l03X_mean vs run
χ^2 / ndf 101 / 80
p0 35.33 ± 22.84
pull
Entries 81
Mean 48.08
Std Dev 32.2

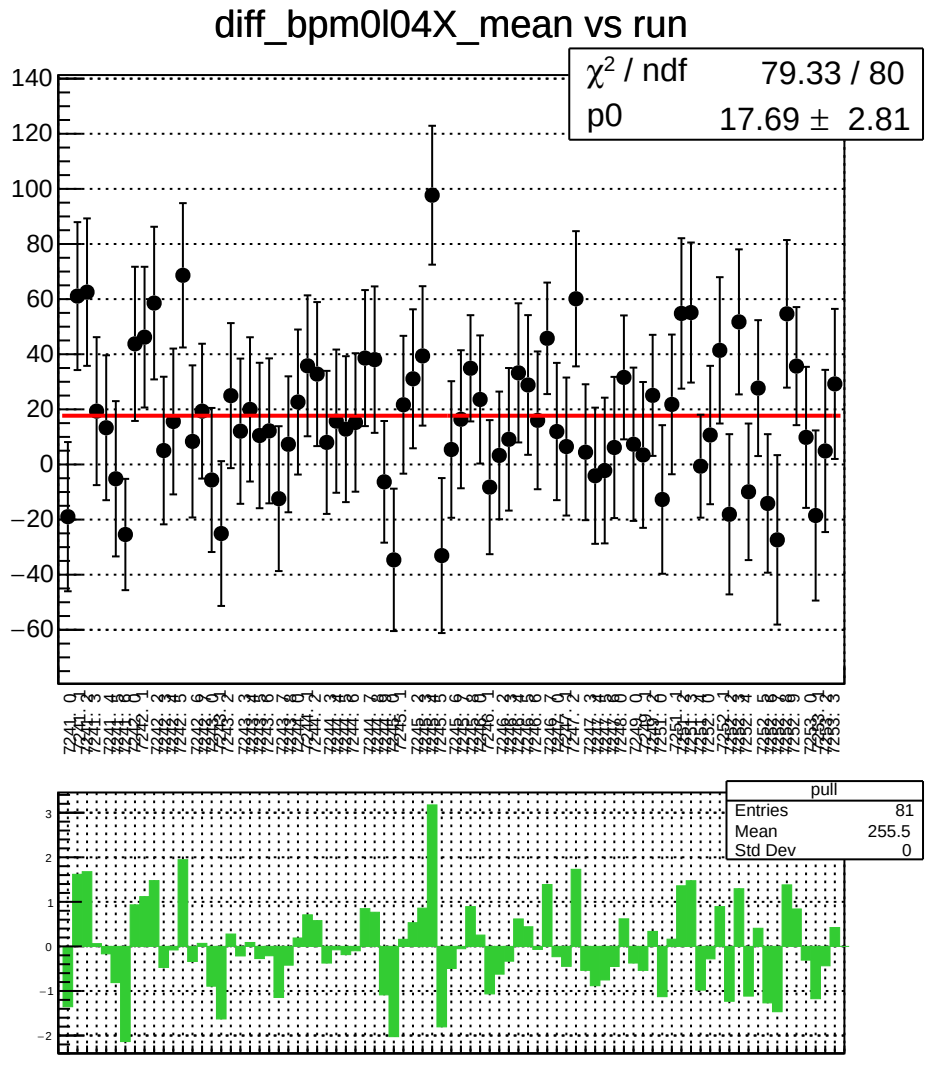

pull1D
Entries 81
Mean 0.05505
Std Dev 1.116

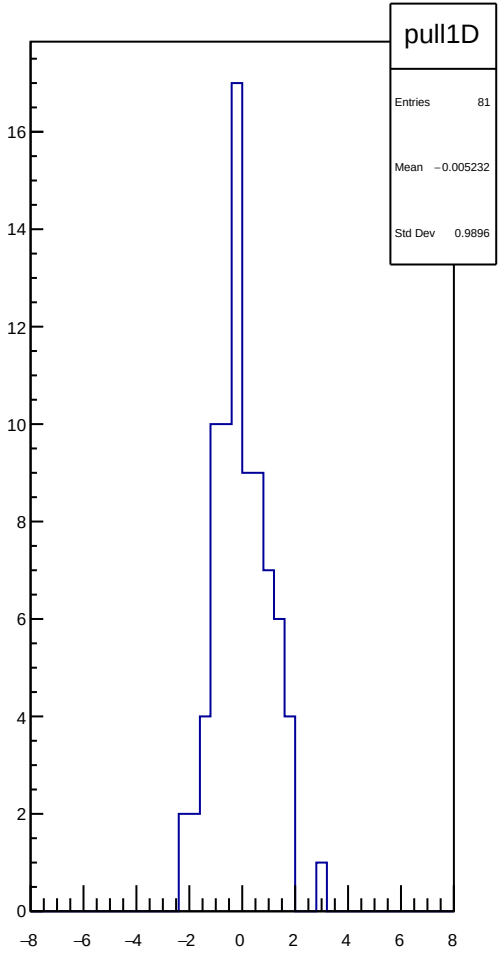

diff_bpm0l03X_rms vs run
×10^3
χ² / ndf 5.749e+05 / 80
p0 1.594e+04 ± 16.15
100
80
60
40
20

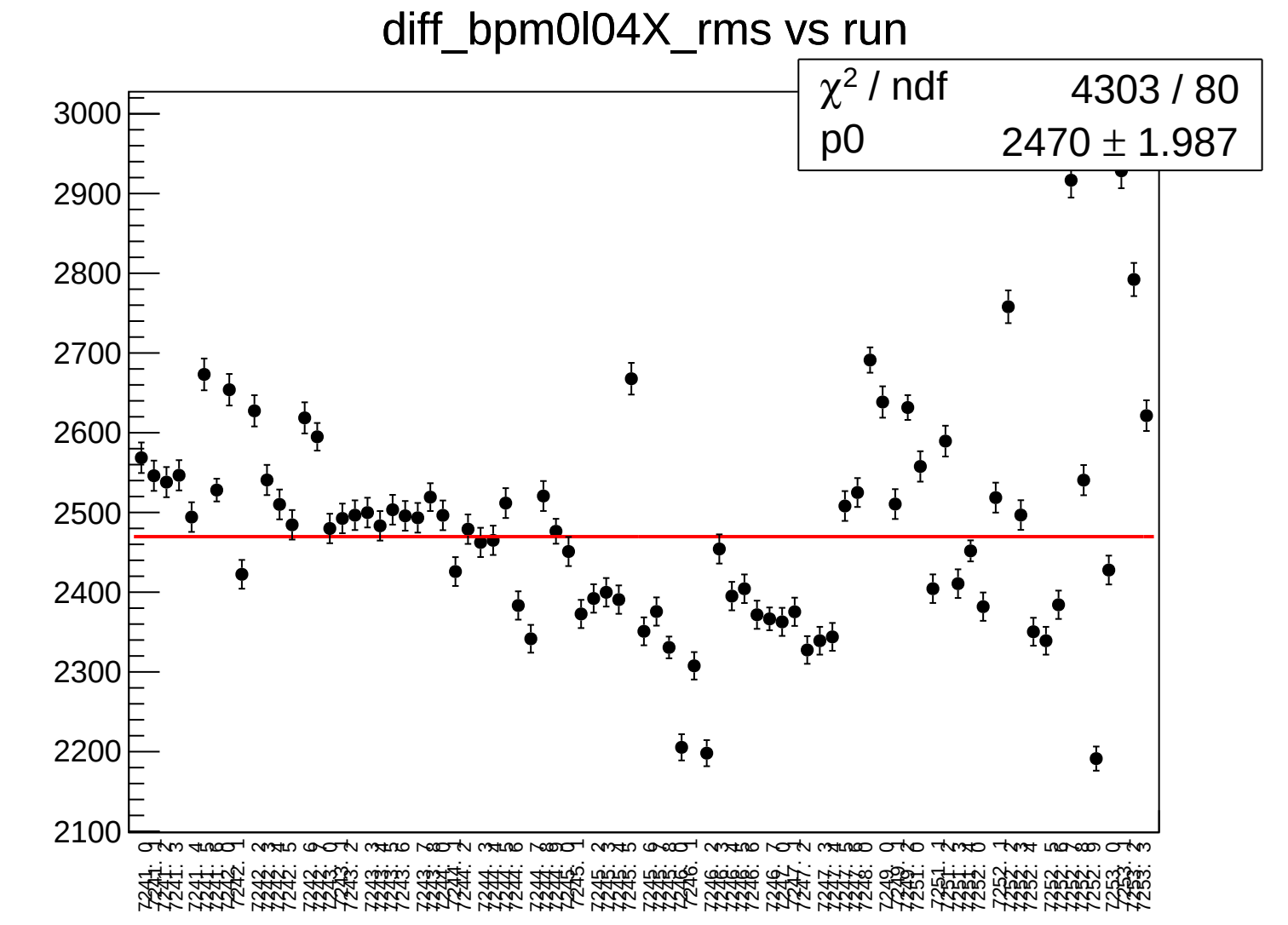

diff_bpm0l03Y_mean vs run
χ² / ndf 100.5 / 80
p0 1.749 ± 23.26
2000
1000
0
−1000
−2000
−3000
pull
Entries 81
Mean 45.77
Std Dev 45.77
2
1
0
−1
−2

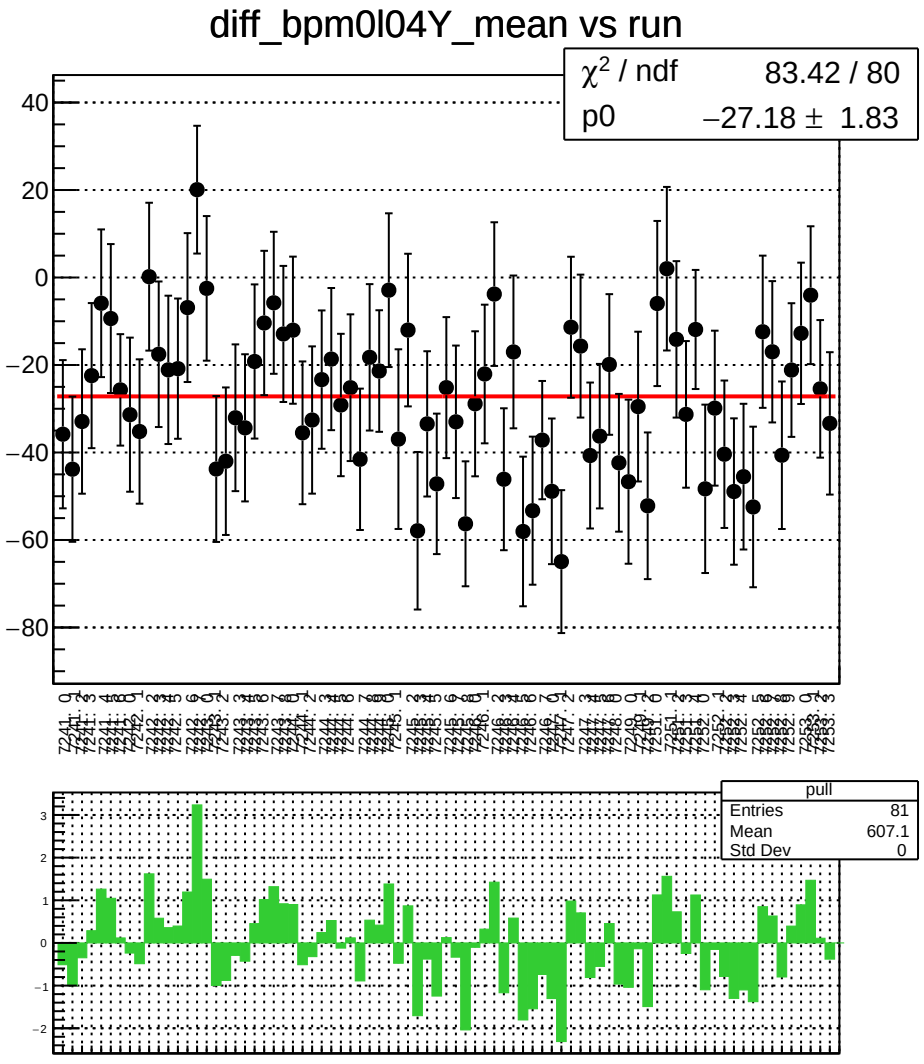

pull1D
Entries 81
Mean 0.0255
Std Dev 1.114
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

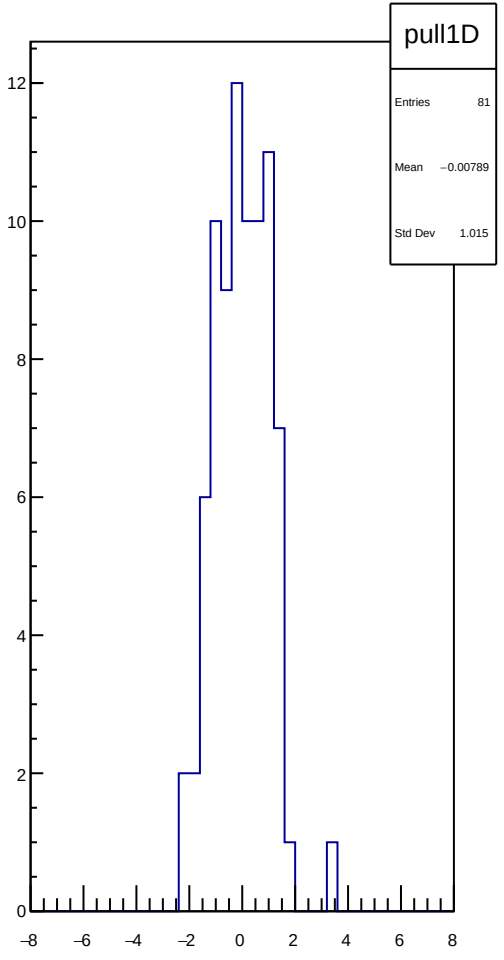

diff_bpm0l03Y_rms vs run
×10^3
χ^2 / ndf 5.567e+05 / 80
p0 1.639e+04 ± 16.45
100
80
60
40
20

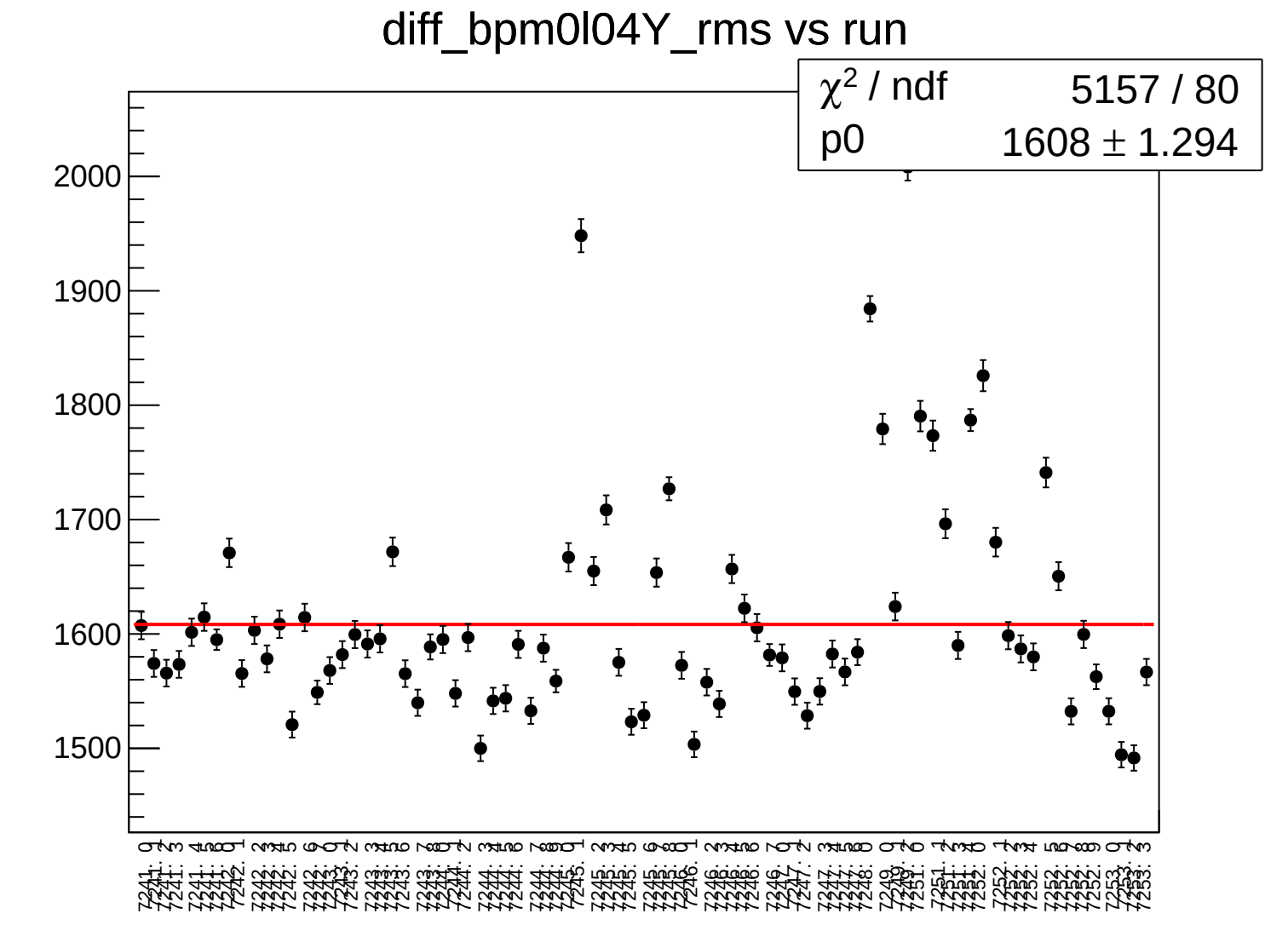

diff_bpm0l04X_mean vs run
χ² / ndf 79.33 / 80
p0 17.69 ± 2.81
pull
Entries 81
Mean 255.5
Std Dev 0

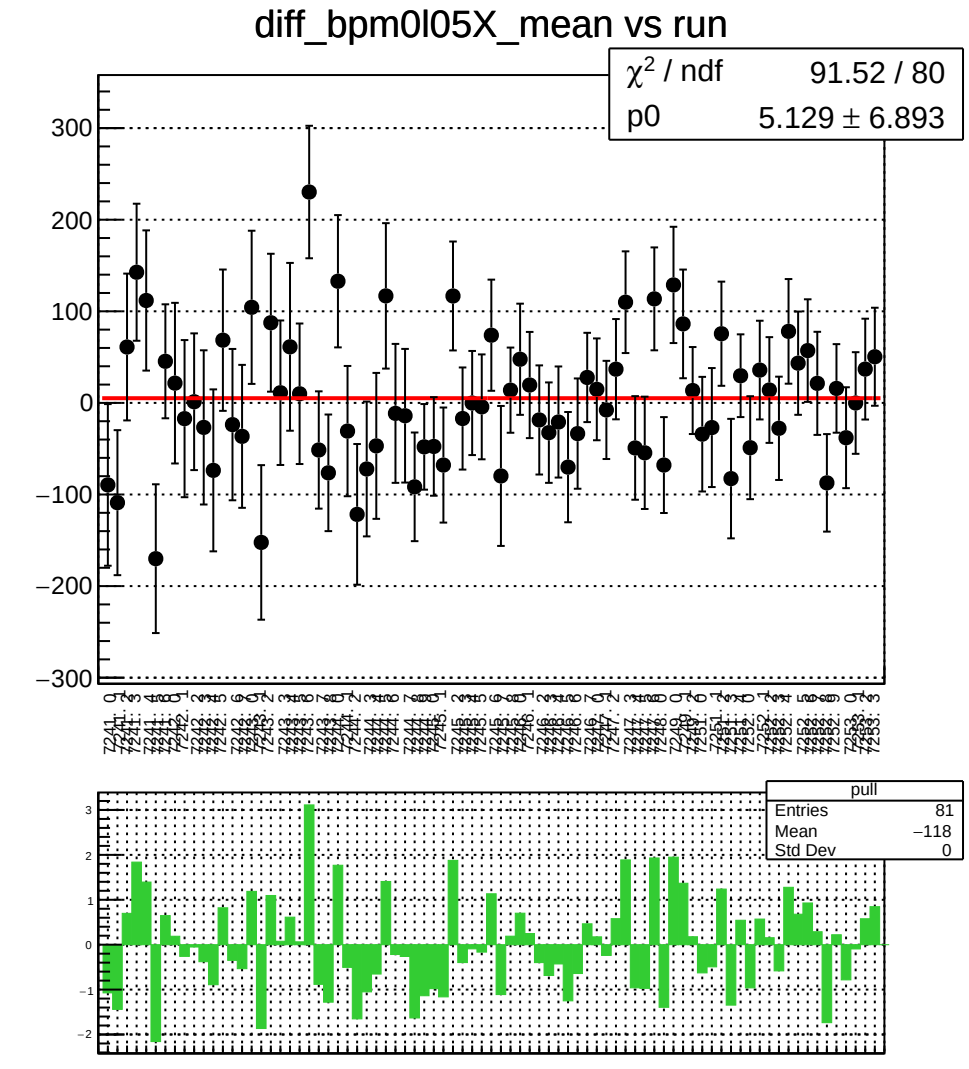

pull1D
Entries 81
Mean −0.005232
Std Dev 0.9896

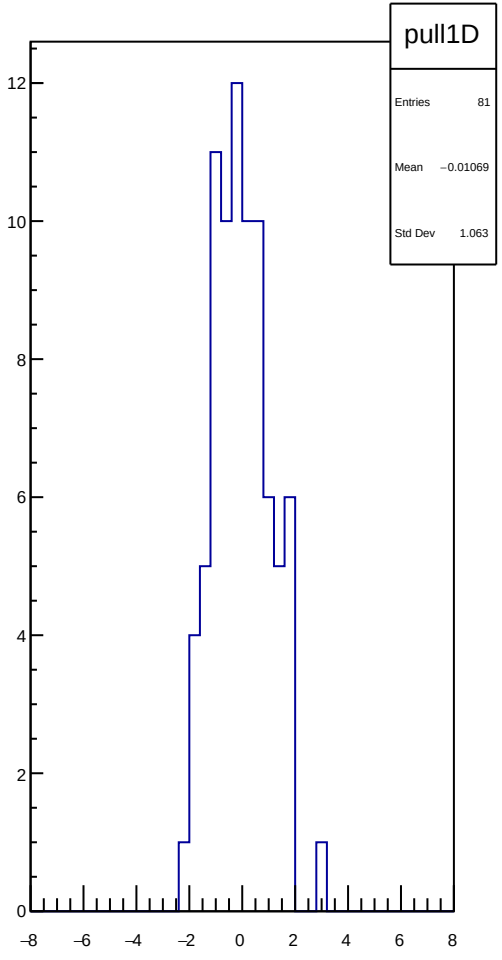

diff_bpm0l04X_rms vs run
χ² / ndf 4303 / 80
p0 2470 ± 1.987
3000
2900
2800
2700
2600
2500
2400
2300
2200
2100

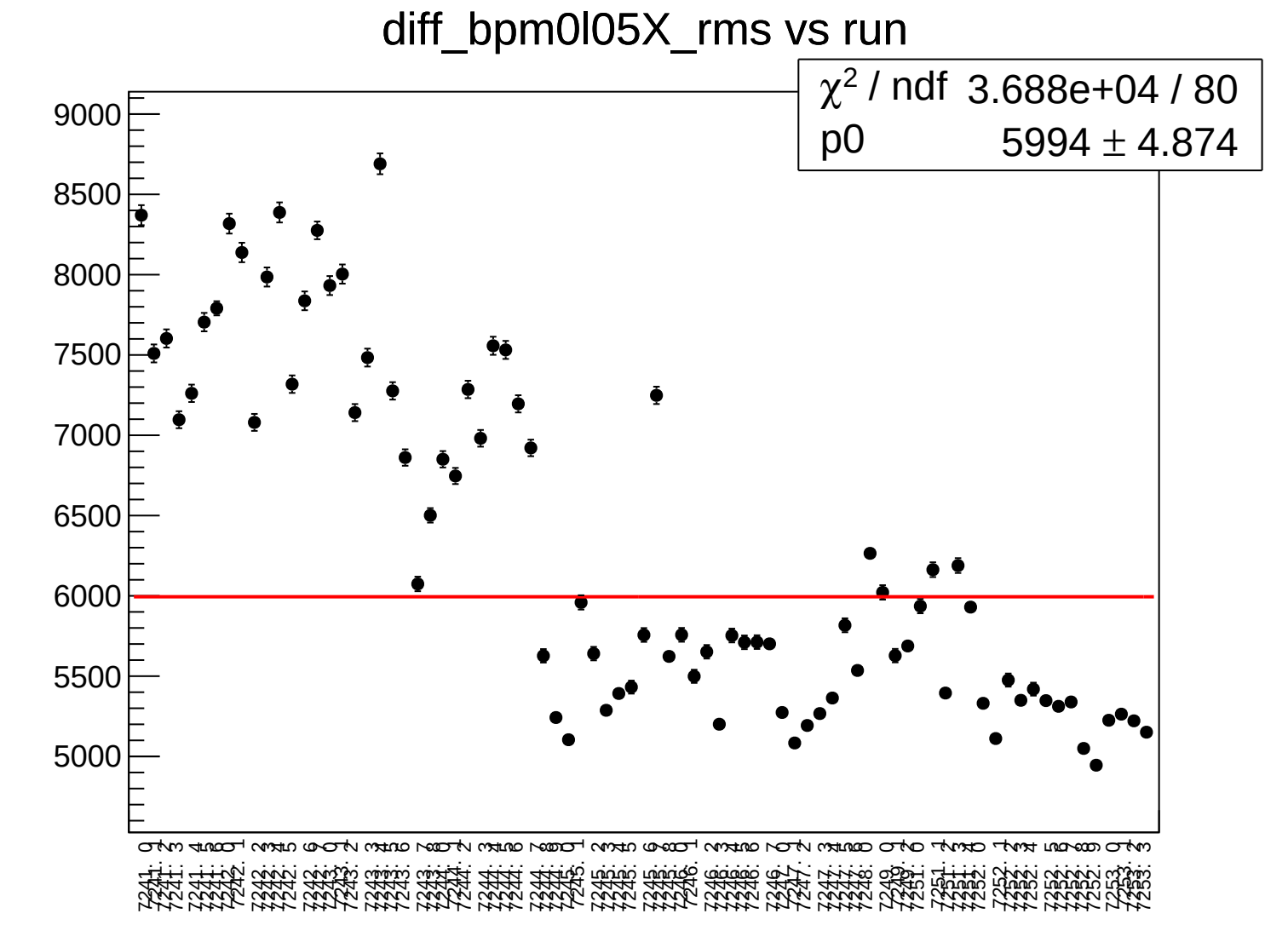

diff_bpm0l04Y_mean vs run
χ² / ndf 83.42 / 80
p0 −27.18 ± 1.83
pull
Entries 81
Mean 607.1
Std Dev 0

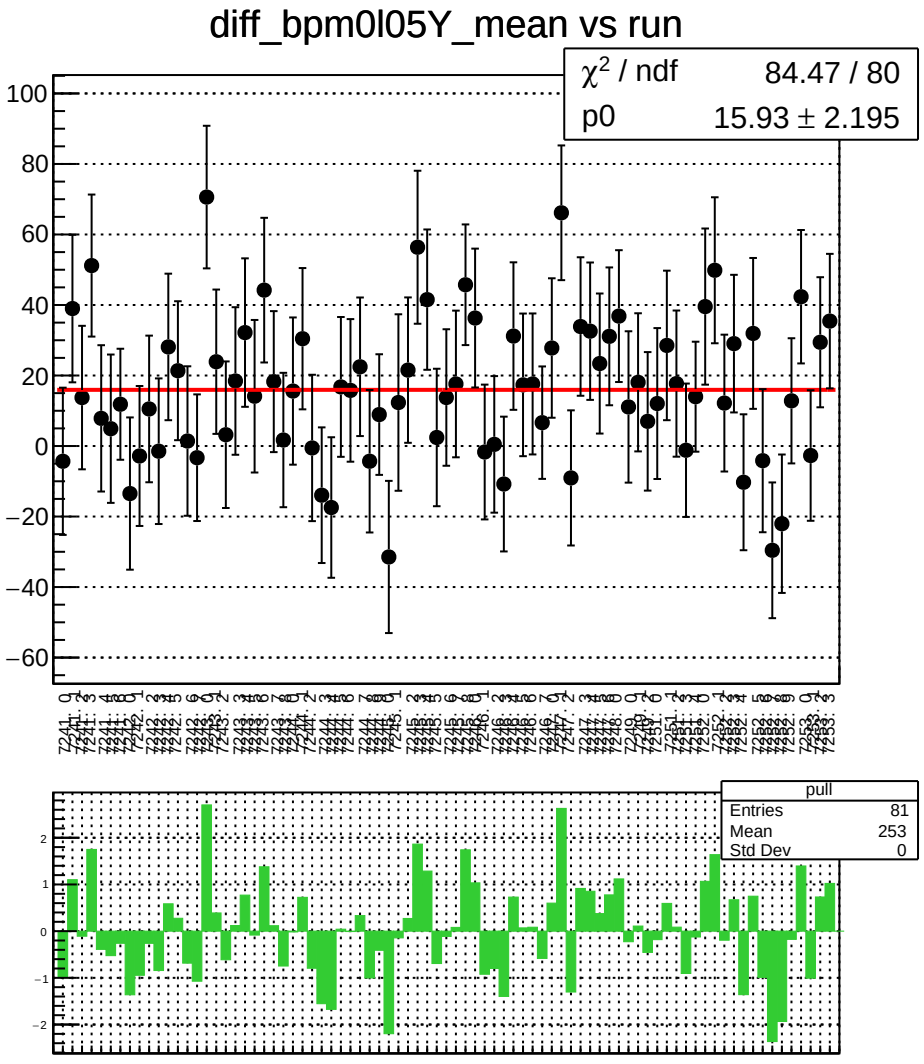

pull1D
Entries 81
Mean −0.00789
Std Dev 1.015

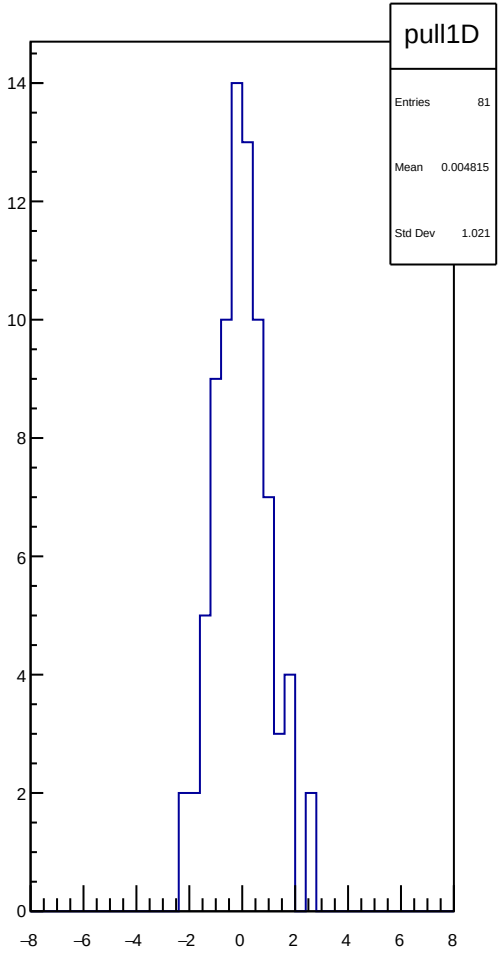

diff_bpm0l04Y_rms vs run
χ² / ndf 5157 / 80
p0 1608 ± 1.294
2000
1900
1800
1700
1600
1500

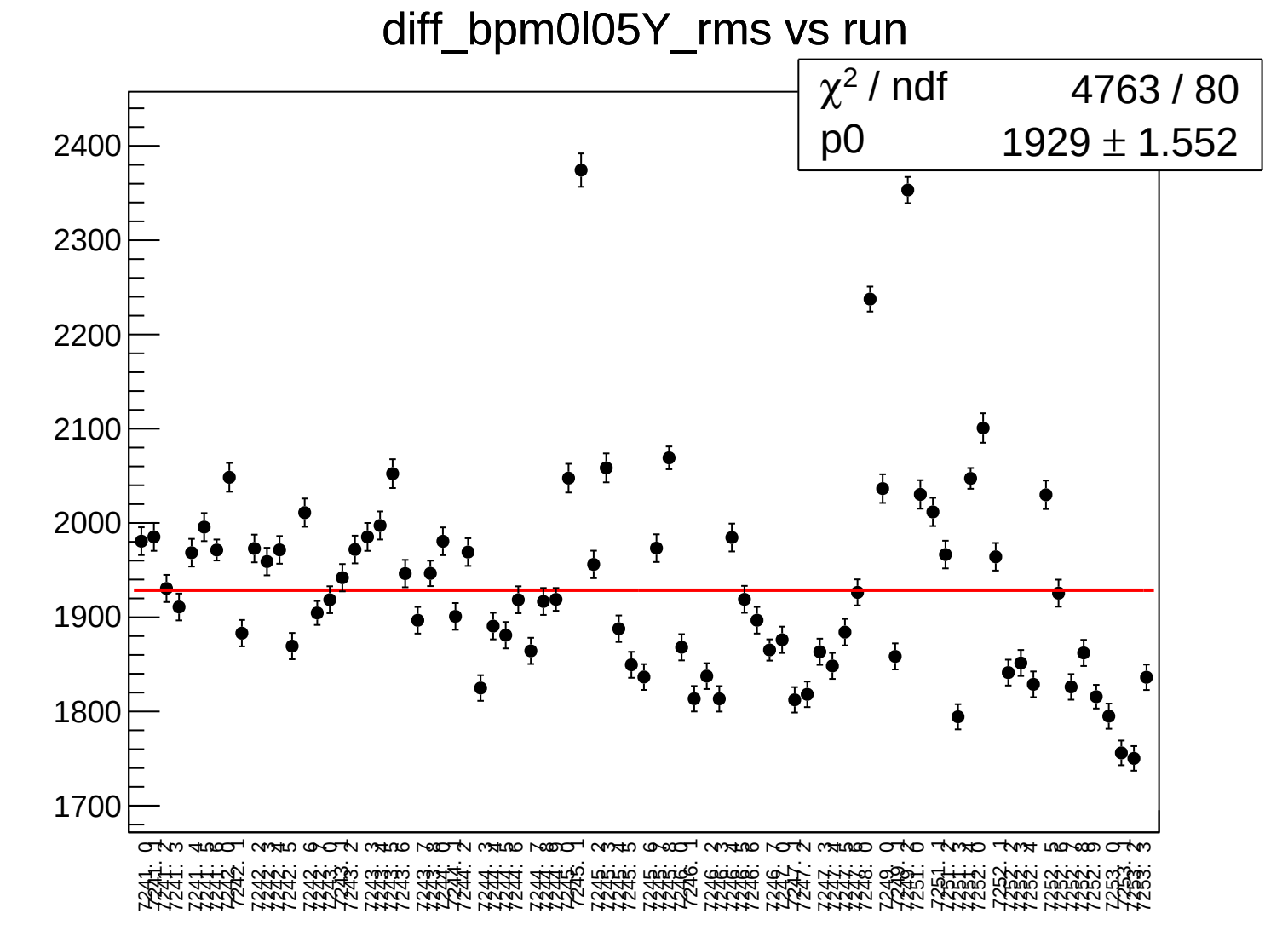

diff_bpm0l05X_mean vs run
χ^2 / ndf 91.52 / 80
p0 5.129 ± 6.893
pull
Entries 81
Mean −118
Std Dev 0

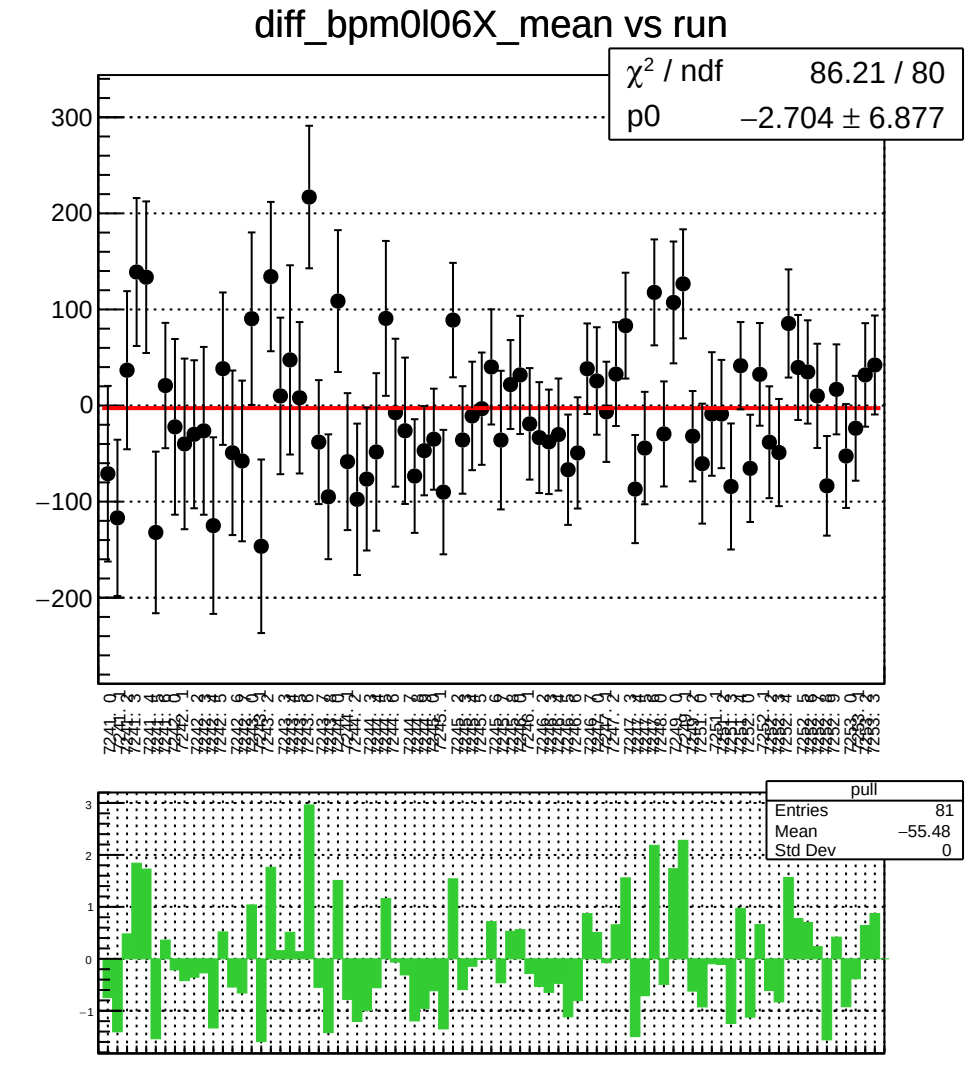

pull1D
Entries 81
Mean −0.01069
Std Dev 1.063

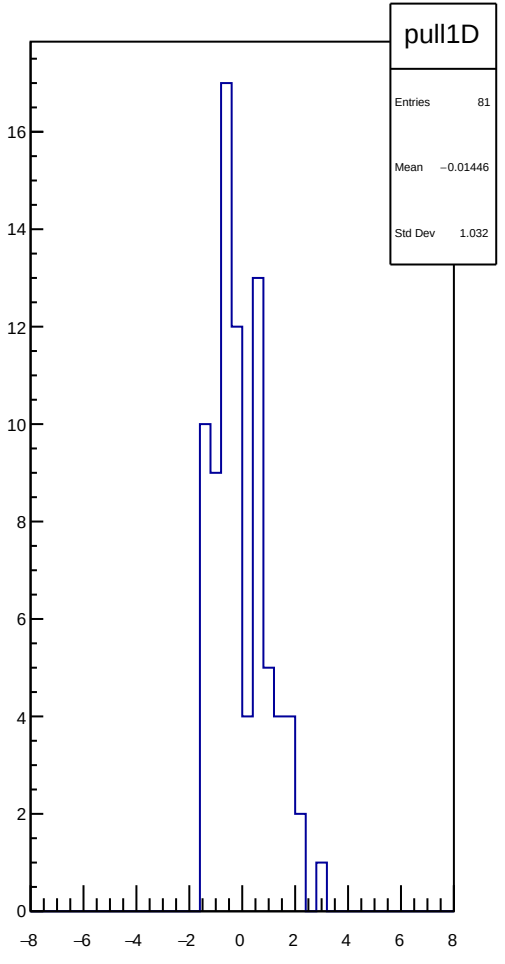

diff_bpm0l05X_rms vs run
χ^2 / ndf 3.688e+04 / 80
p0 5994 ± 4.874
9000
8500
8000
7500
7000
6500
6000
5500
5000

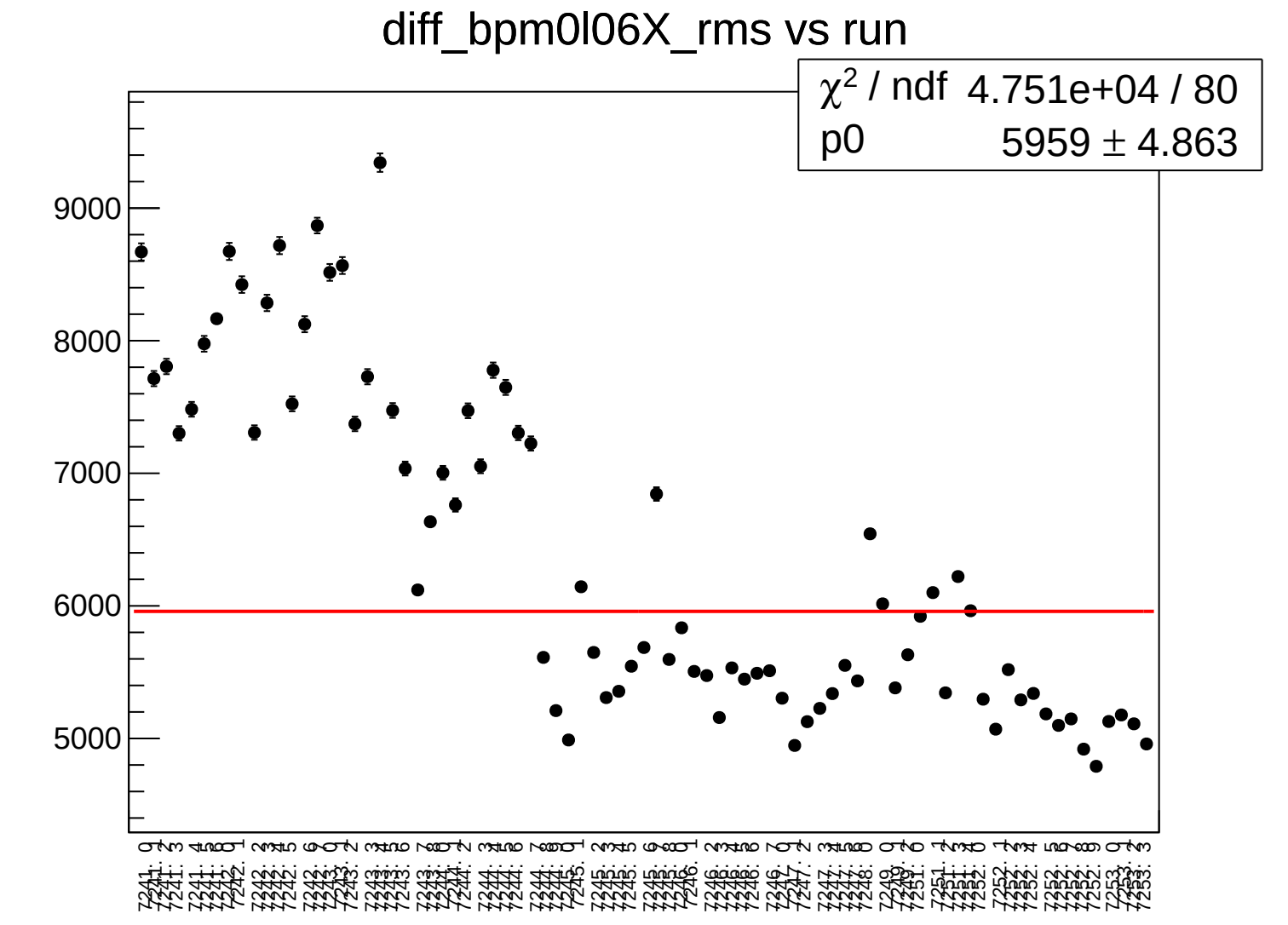

diff_bpm0l05Y_mean vs run
χ² / ndf 84.47 / 80
p0 15.93 ± 2.195
pull
Entries 81
Mean 253
Std Dev 0

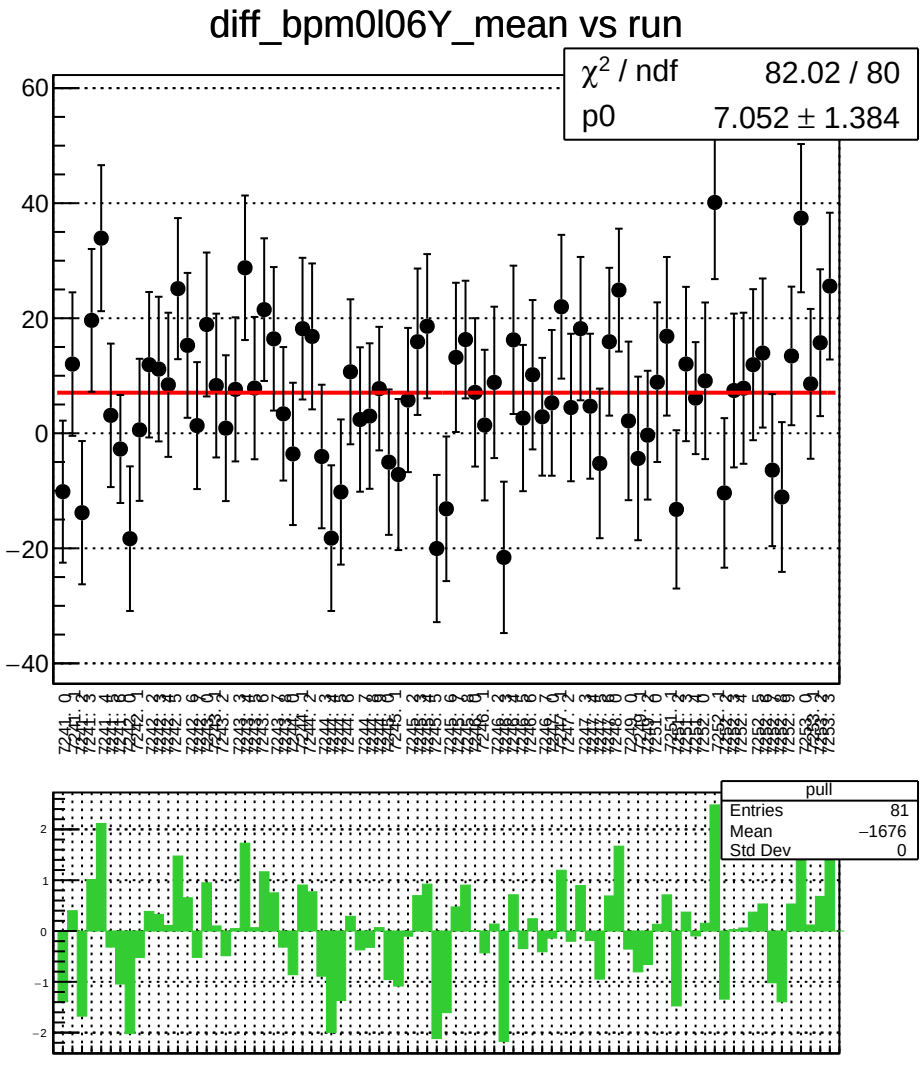

pull1D
Entries 81
Mean 0.004815
Std Dev 1.021

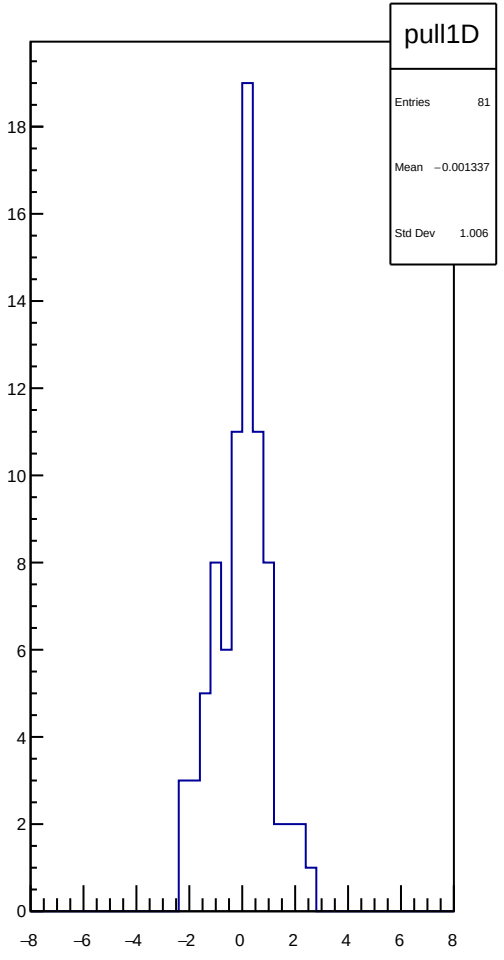

diff_bpm0l05Y_rms vs run
χ² / ndf 4763 / 80
p0 1929 ± 1.552
2400
2300
2200
2100
2000
1900
1800
1700

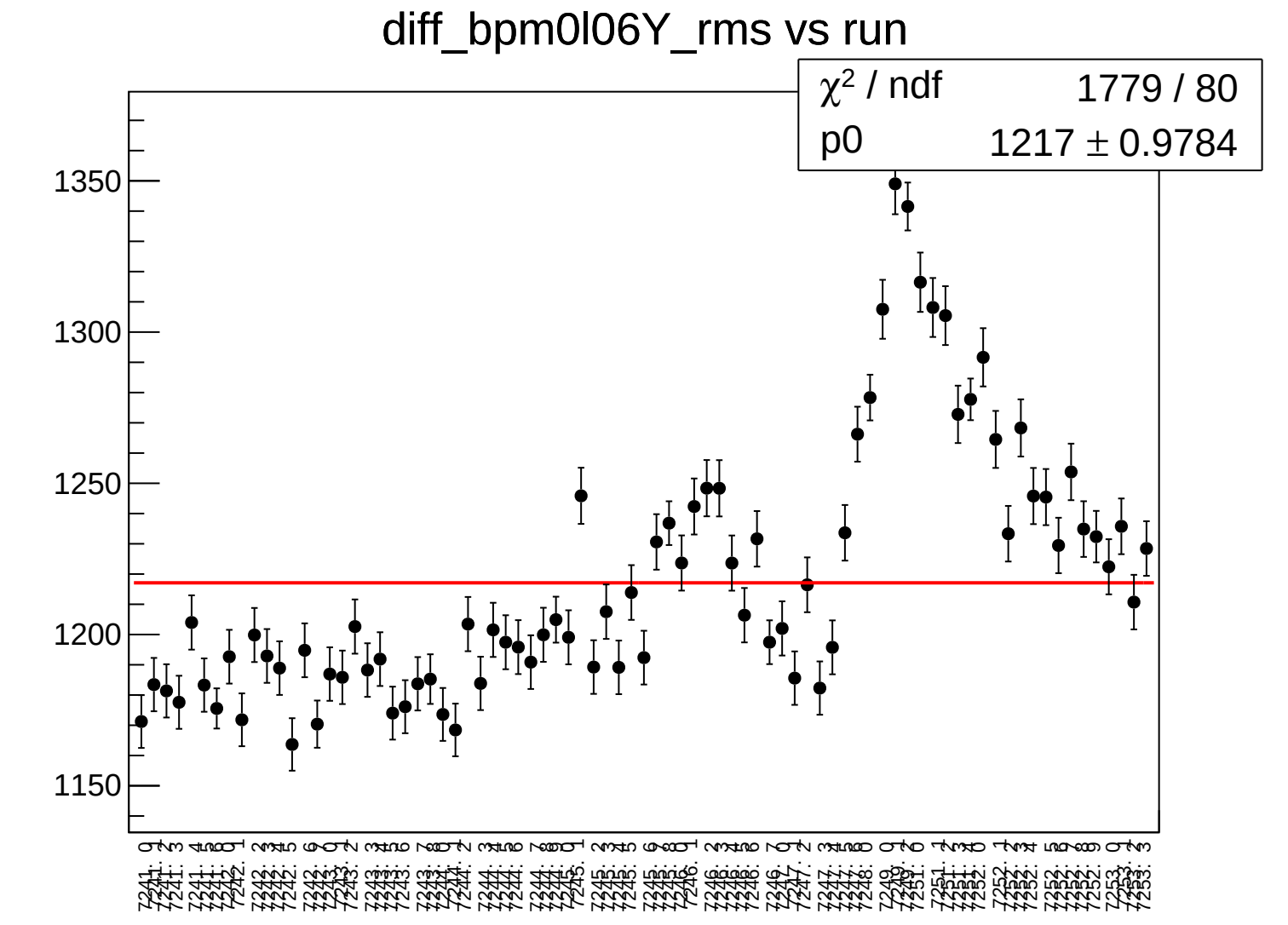

diff_bpm0l06X_mean vs run
χ² / ndf 86.21 / 80
p0 −2.704 ± 6.877
300
200
100
0
−100
−200
pull
Entries 81
Mean −55.48
Std Dev 0
3
2
1
0
−1

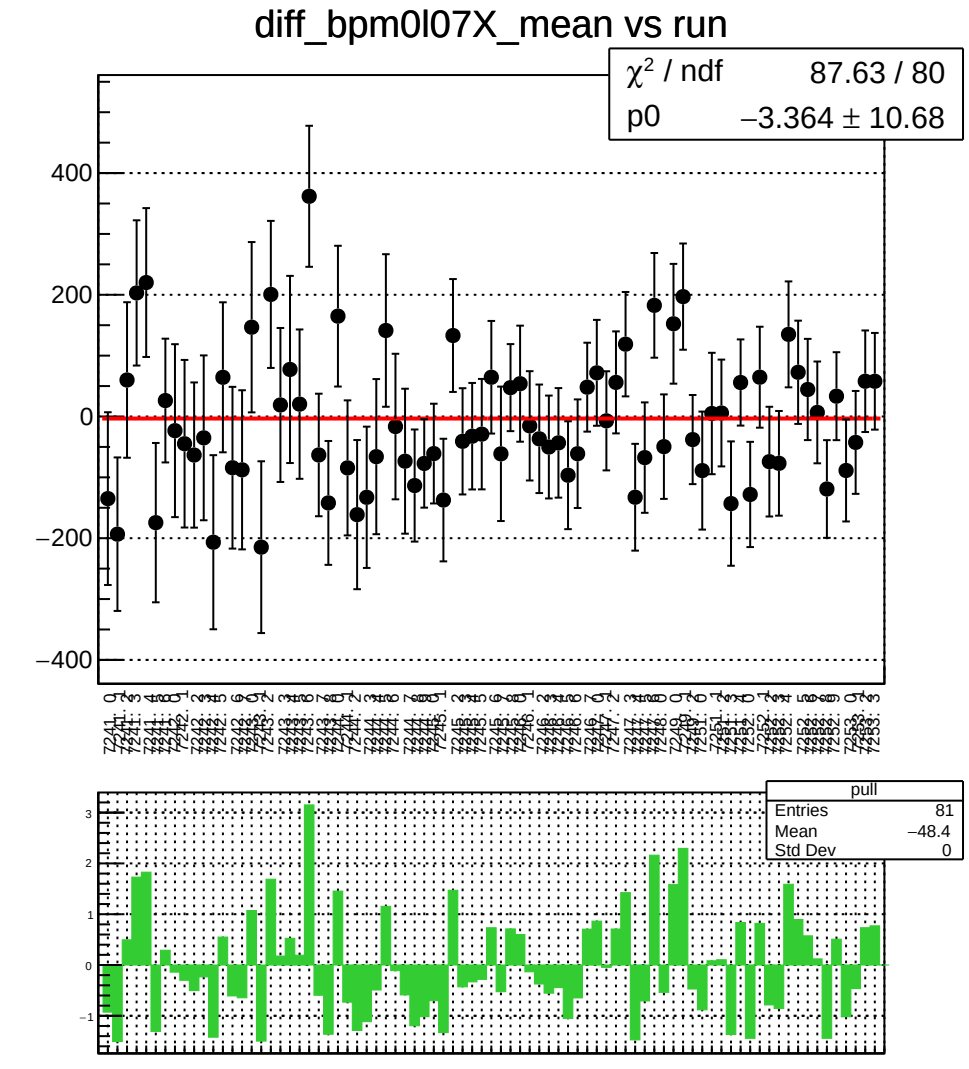

pull1D
Entries 81
Mean −0.01446
Std Dev 1.032
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

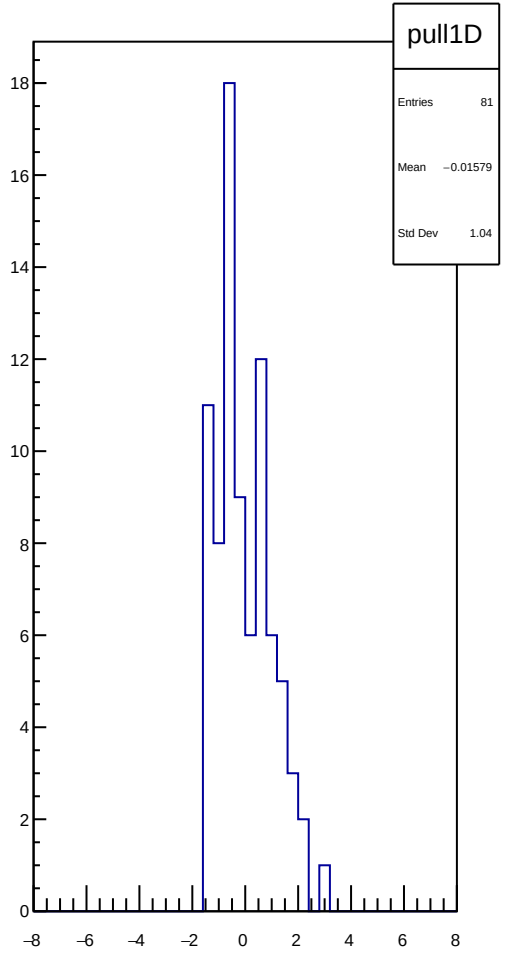

diff_bpm0l06X_rms vs run
χ^2 / ndf 4.751e+04 / 80
p0 5959 ± 4.863
9000
8000
7000
6000
5000

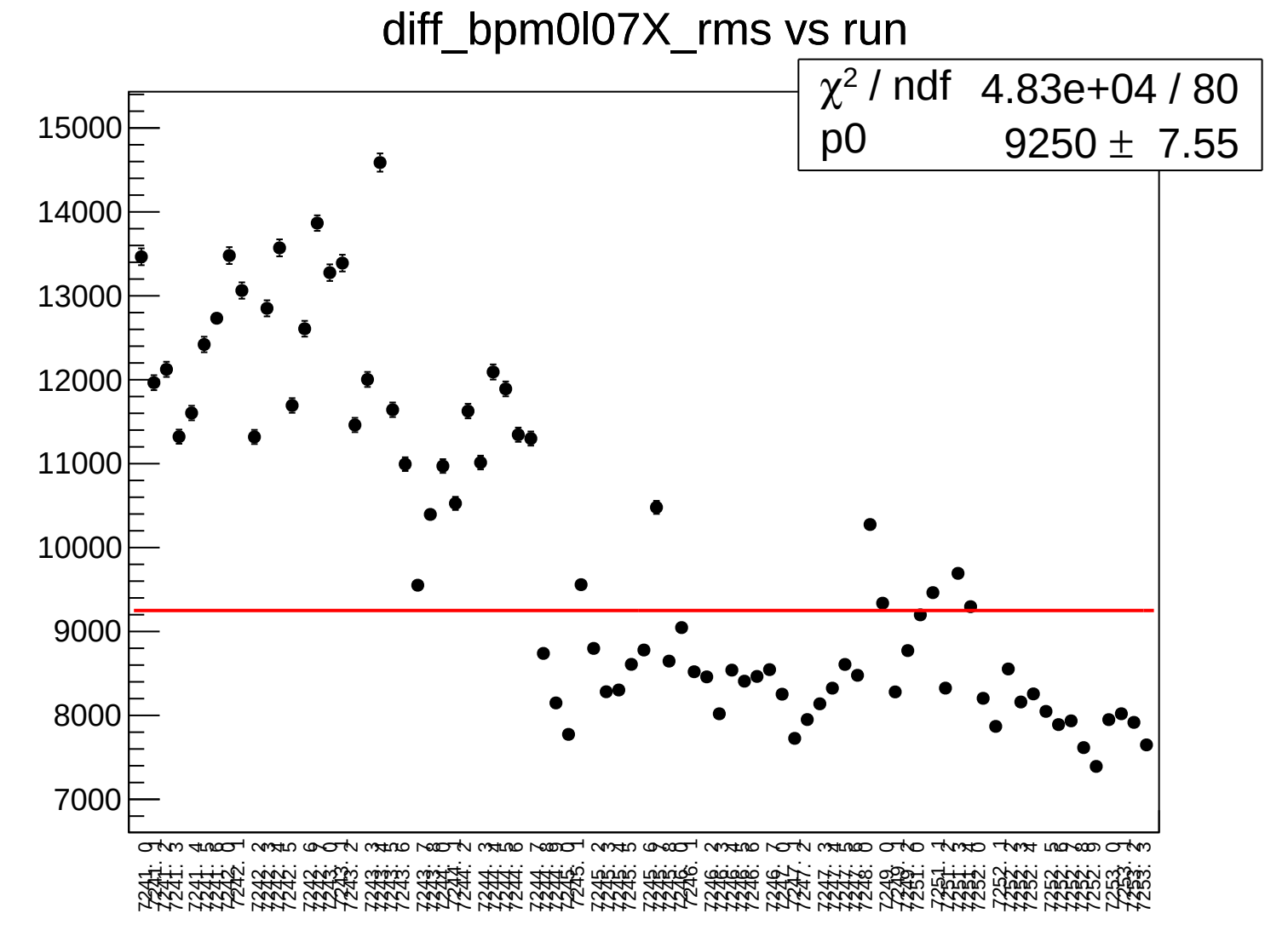

diff_bpm0l06Y_mean vs run
χ² / ndf 82.02 / 80
p0 7.052 ± 1.384
pull
Entries 81
Mean −1676
Std Dev 0

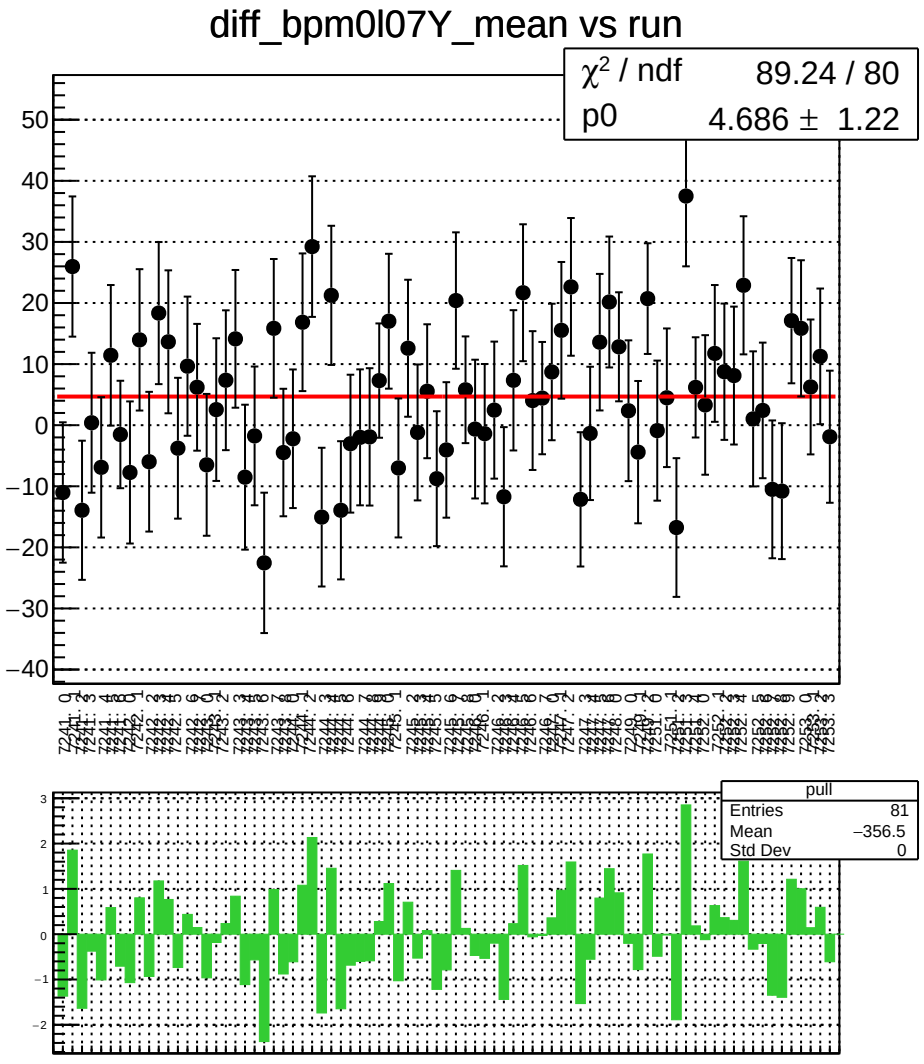

pull1D
Entries 81
Mean −0.001337
Std Dev 1.006

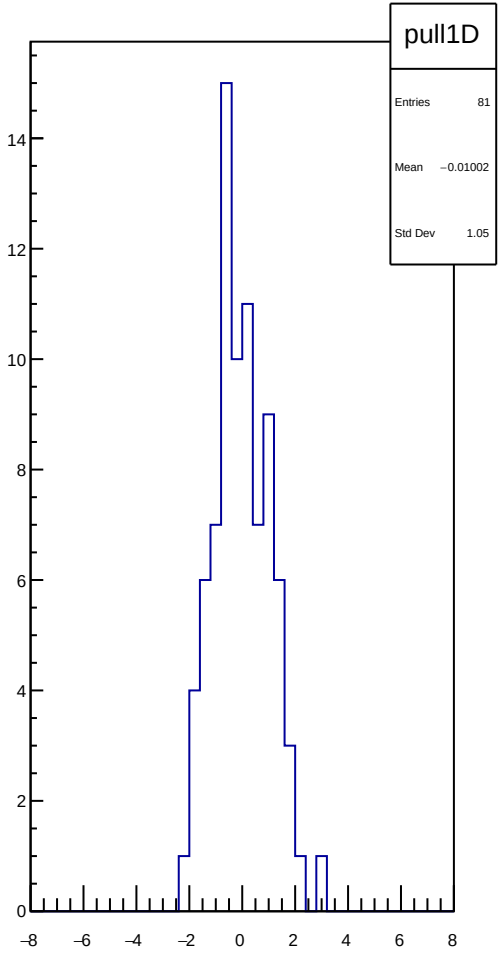

diff_bpm0l06Y_rms vs run
χ² / ndf 1779 / 80
p0 1217 ± 0.9784
1350
1300
1250
1200
1150

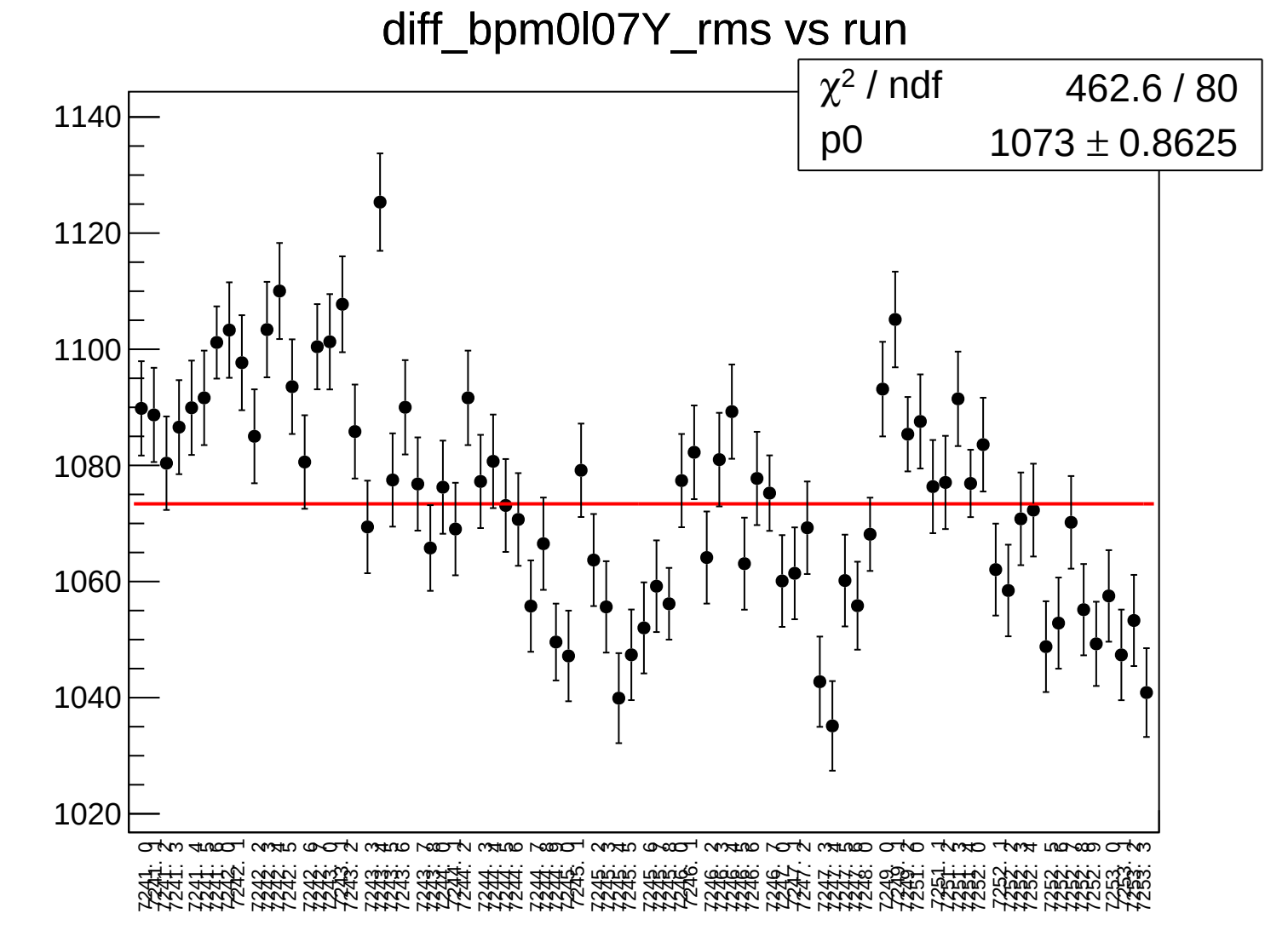

diff_bpm0l07X_mean vs run
χ² / ndf 87.63 / 80
p0 −3.364 ± 10.68
400
200
0
−200
−400
pull
Entries 81
Mean −48.4
Std Dev 0
3
2
1
0
−1

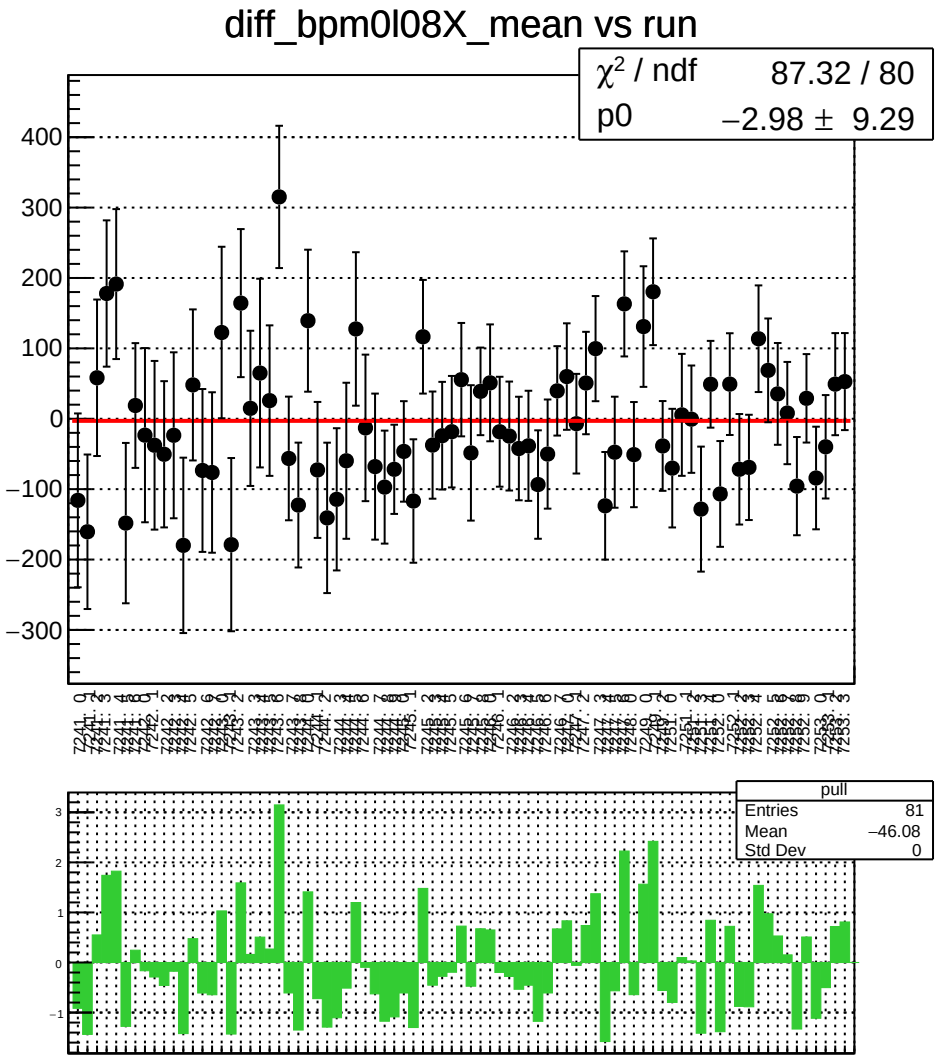

pull1D
Entries 81
Mean −0.01579
Std Dev 1.04
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

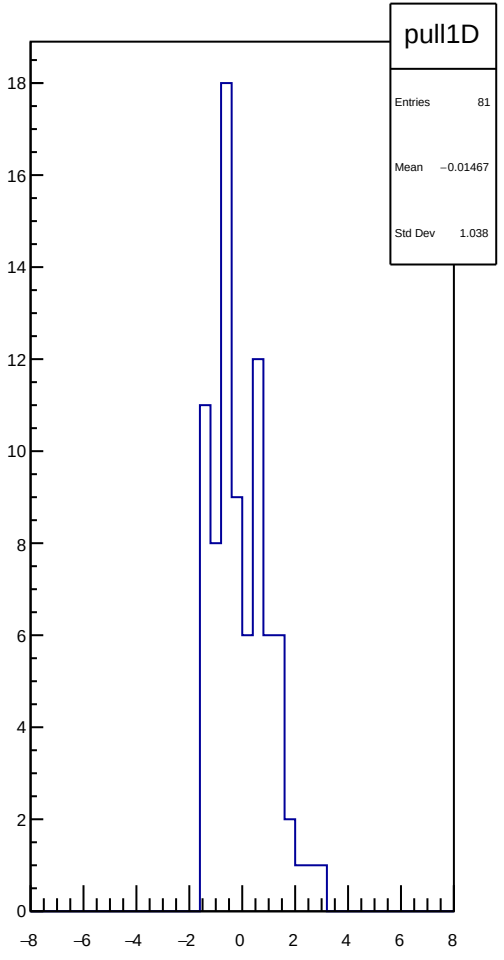

diff_bpm0l07X_rms vs run
χ² / ndf 4.83e+04 / 80
p0 9250 ± 7.55
15000
14000
13000
12000
11000
10000
9000
8000
7000

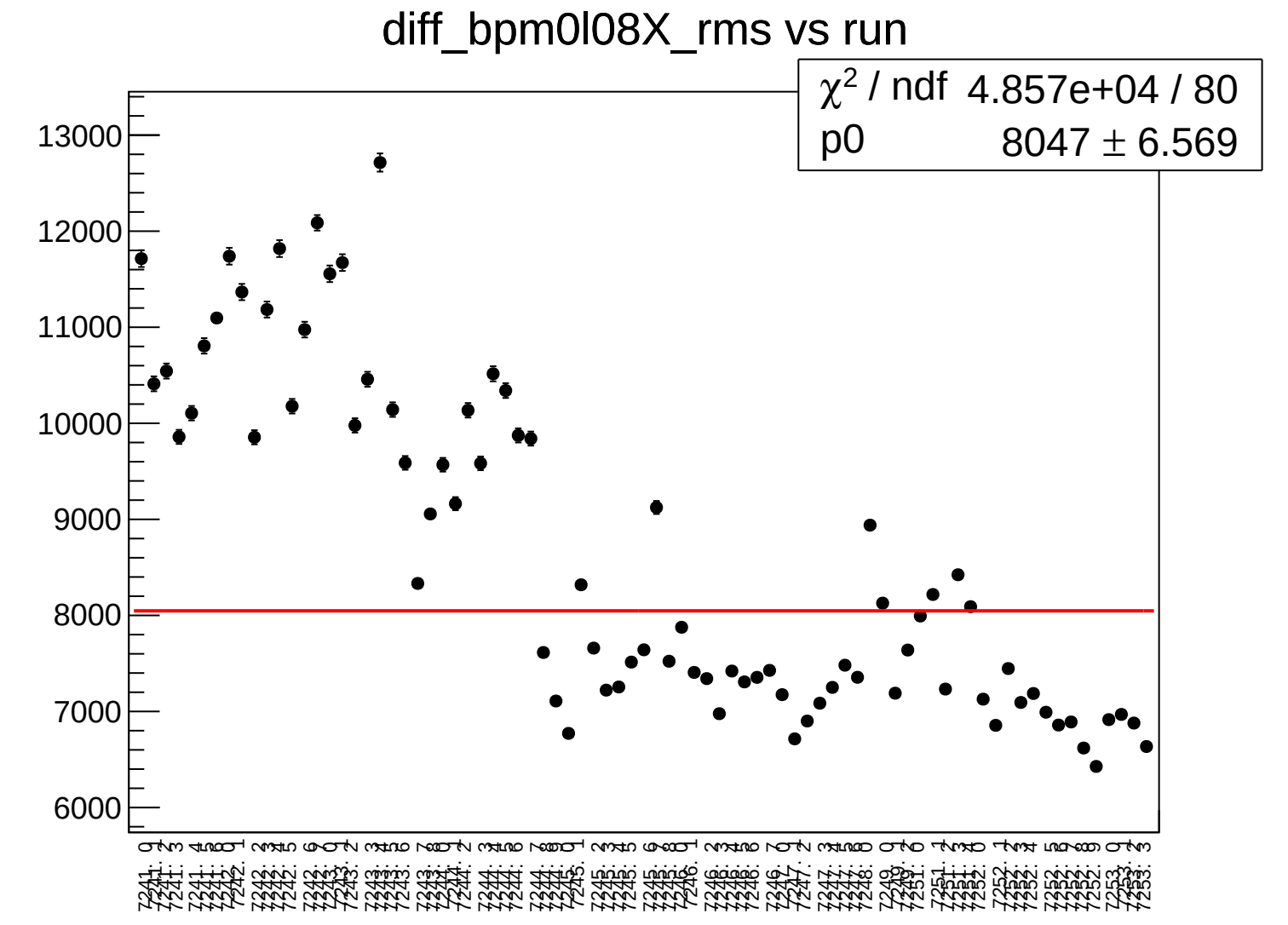

diff_bpm0l07Y_mean vs run
χ² / ndf 89.24 / 80
p0 4.686 ± 1.22
pull
Entries 81
Mean −356.5
Std Dev 0

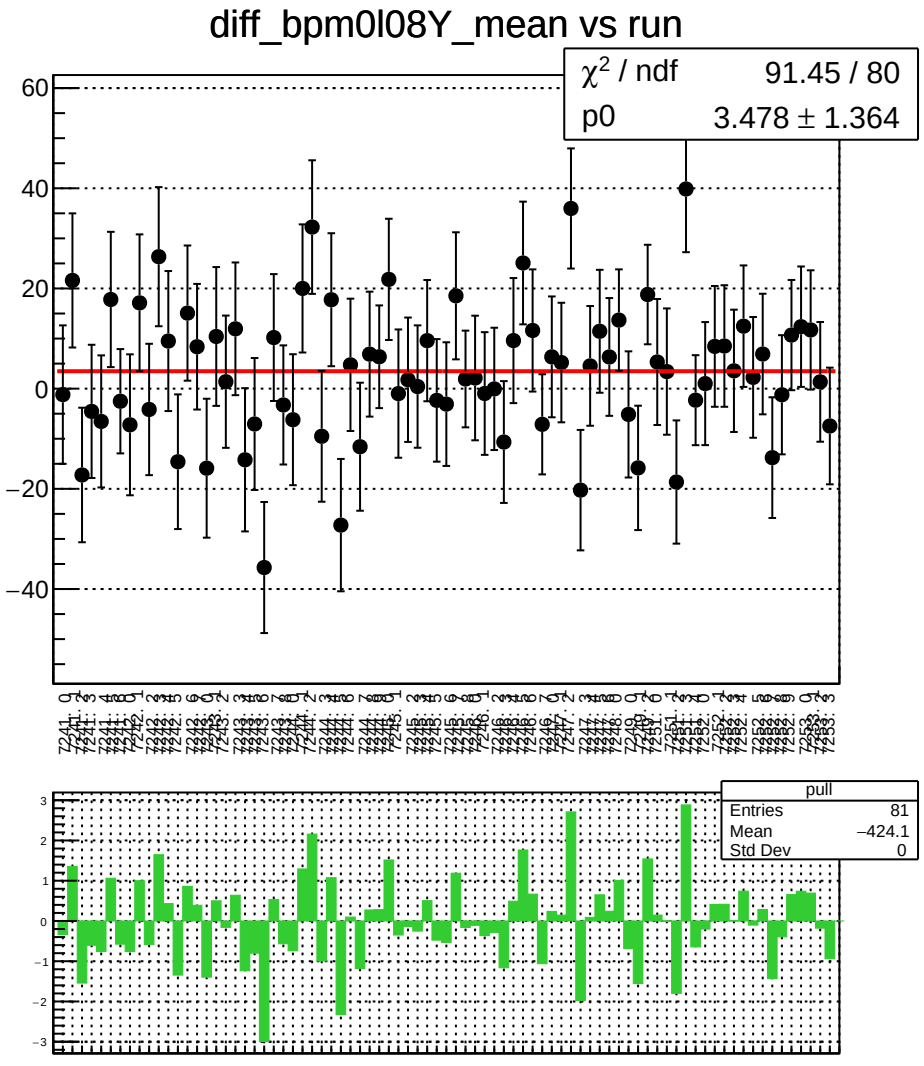

pull1D
Entries 81
Mean −0.01002
Std Dev 1.05

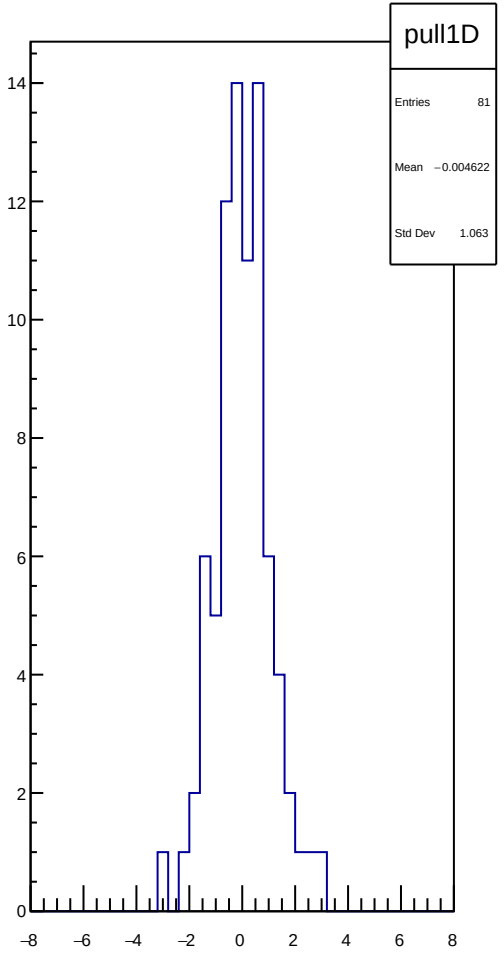

diff_bpm0l07Y_rms vs run
χ² / ndf 462.6 / 80
p0 1073 ± 0.8625
1140
1120
1100
1080
1060
1040
1020


diff_bpm0l08X_mean vs run
χ² / ndf 87.32 / 80
p0 −2.98 ± 9.29
pull
Entries 81
Mean −46.08
Std Dev 0

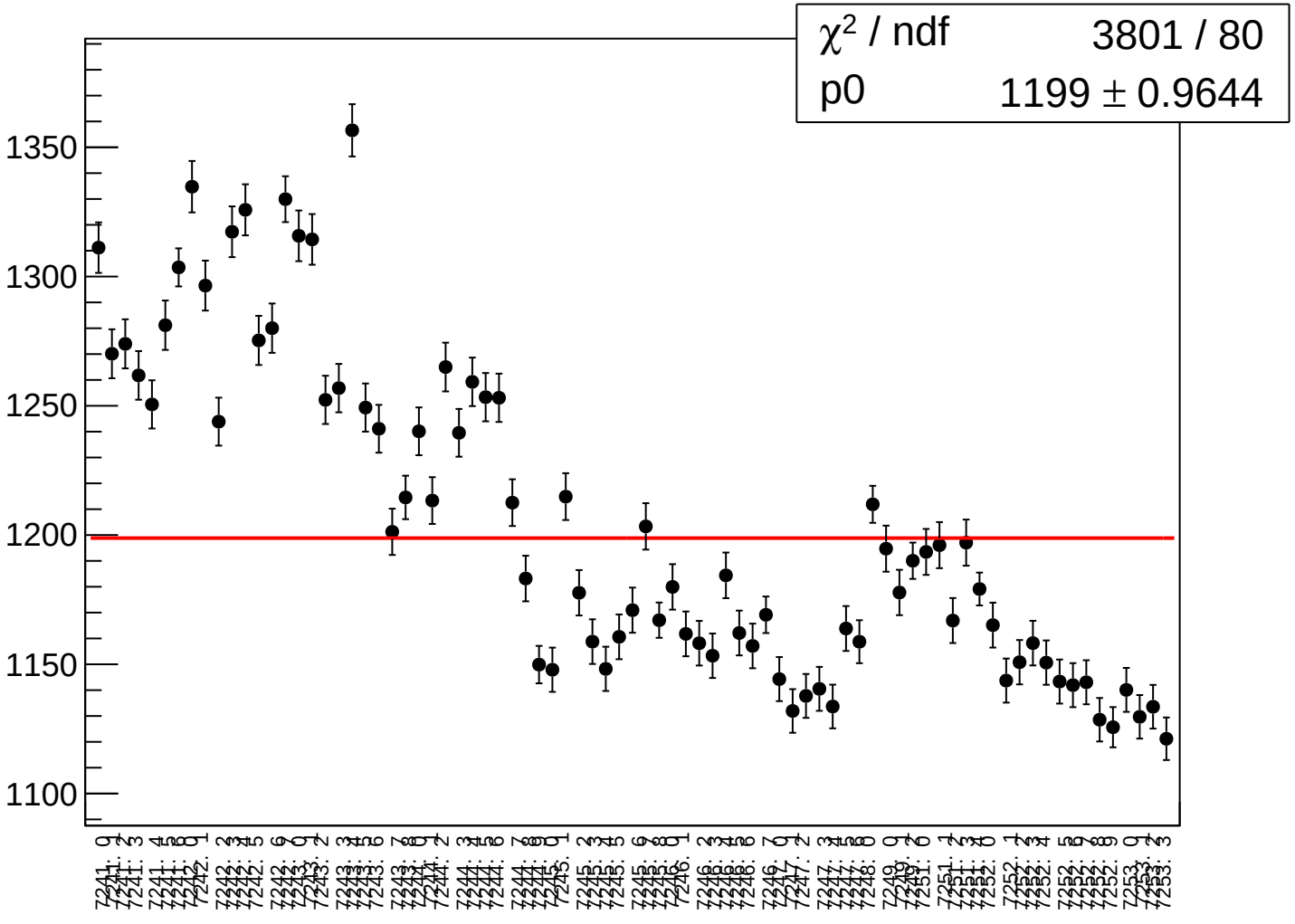

pull1D
Entries 81
Mean −0.01467
Std Dev 1.038

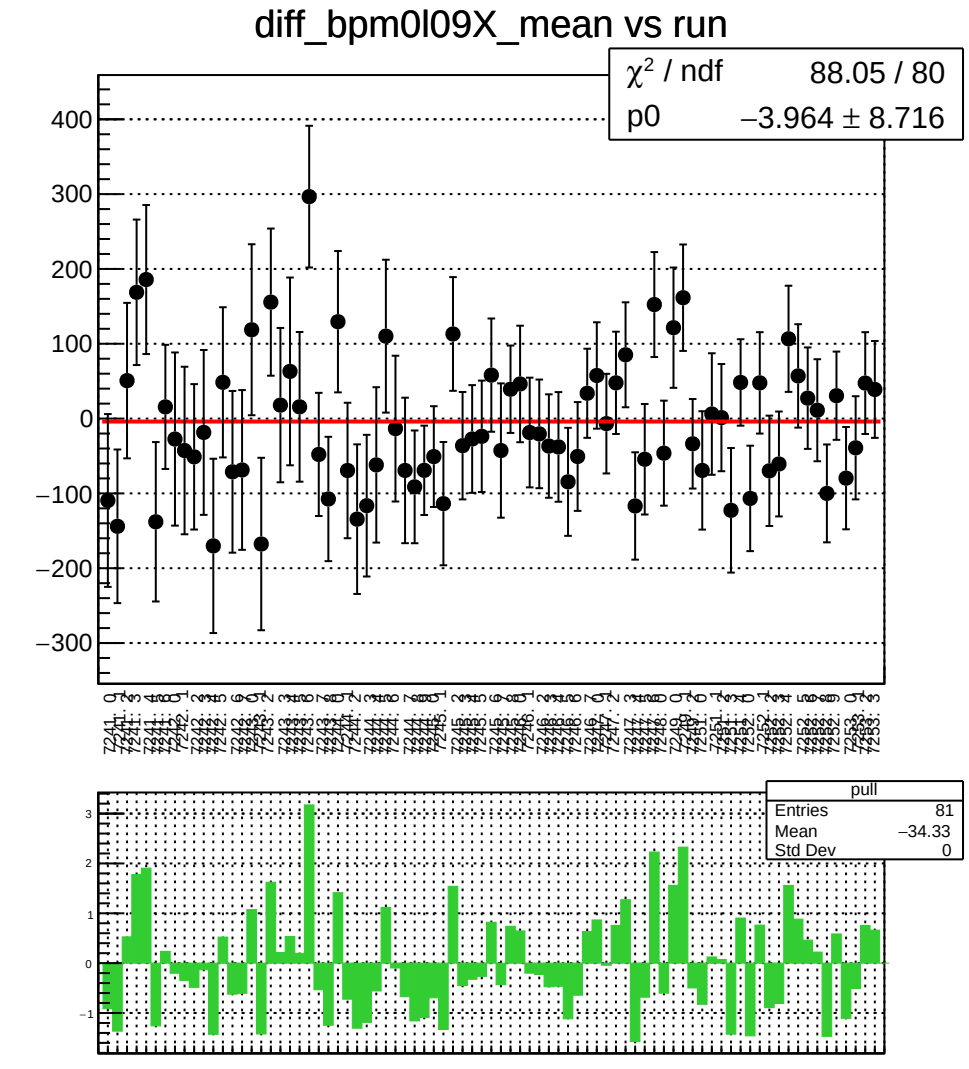

diff_bpm0l08X_rms vs run
χ² / ndf 4.857e+04 / 80
p0 8047 ± 6.569
13000
12000
11000
10000
9000
8000
7000
6000

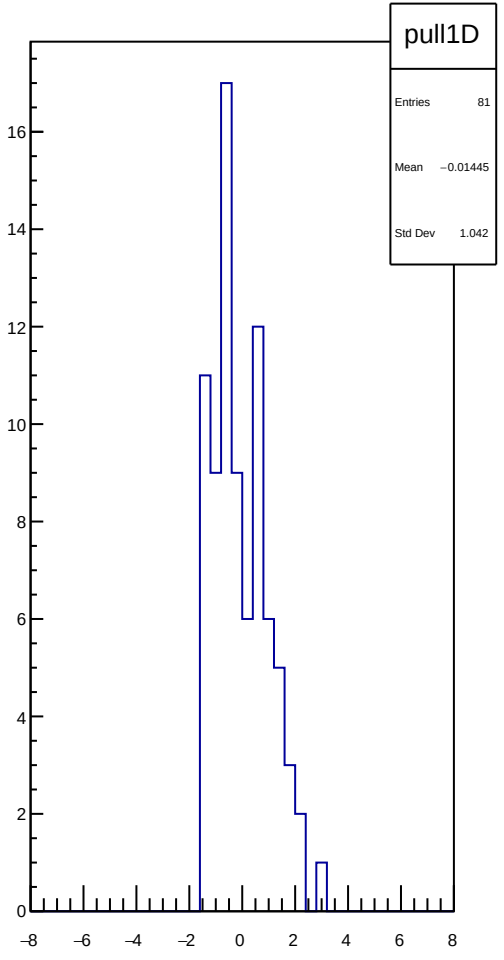

diff_bpm0l08Y_mean vs run
χ² / ndf 91.45 / 80
p0 3.478 ± 1.364
pull
Entries 81
Mean −424.1
Std Dev 0

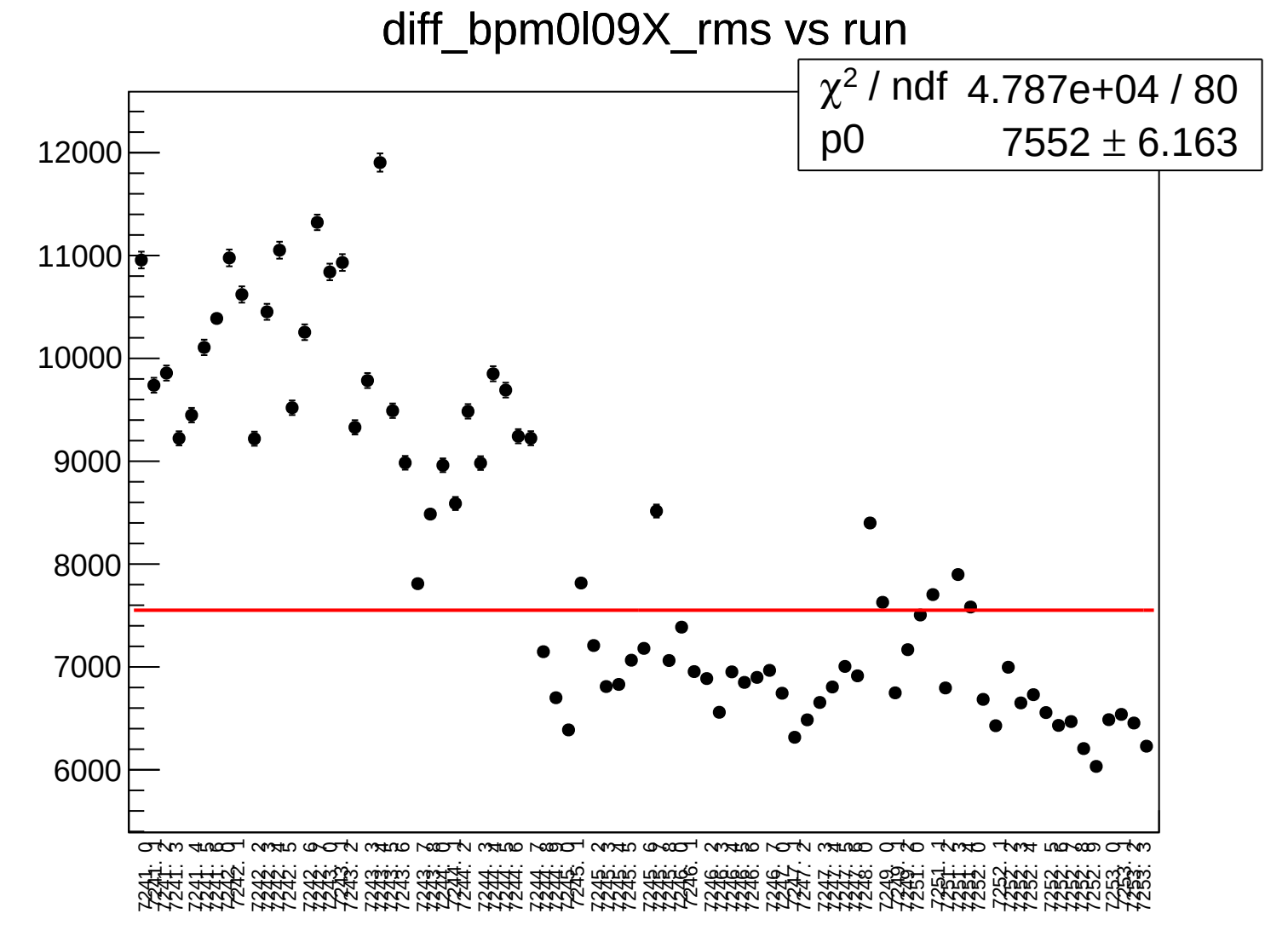

pull1D
Entries 81
Mean −0.004622
Std Dev 1.063

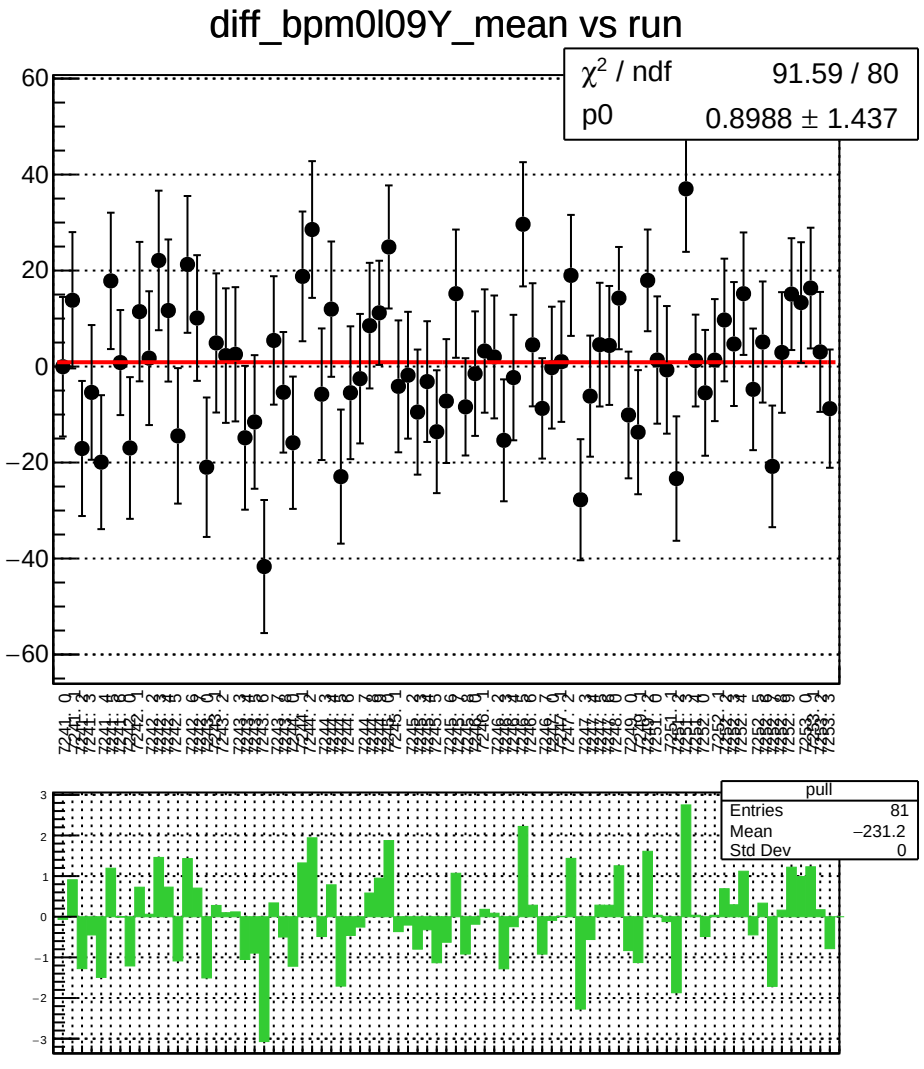
diff_bpm0l08Y_rms vs run

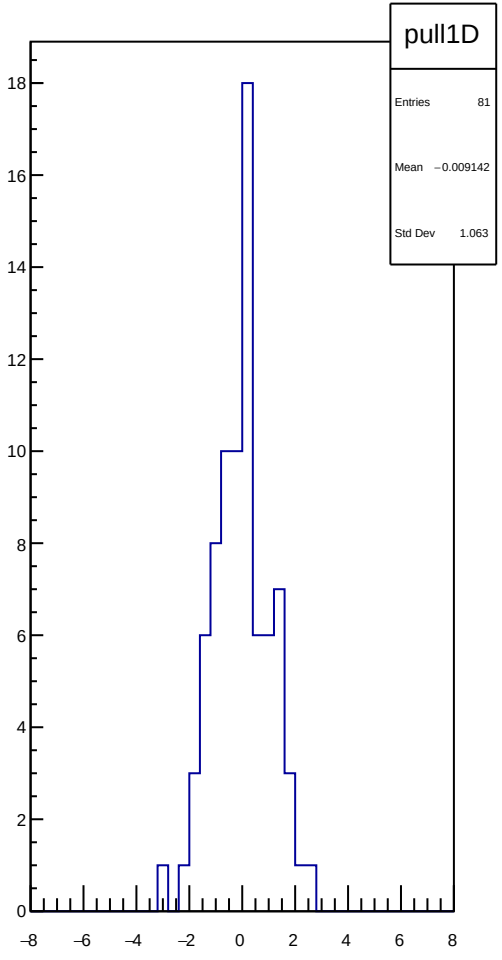


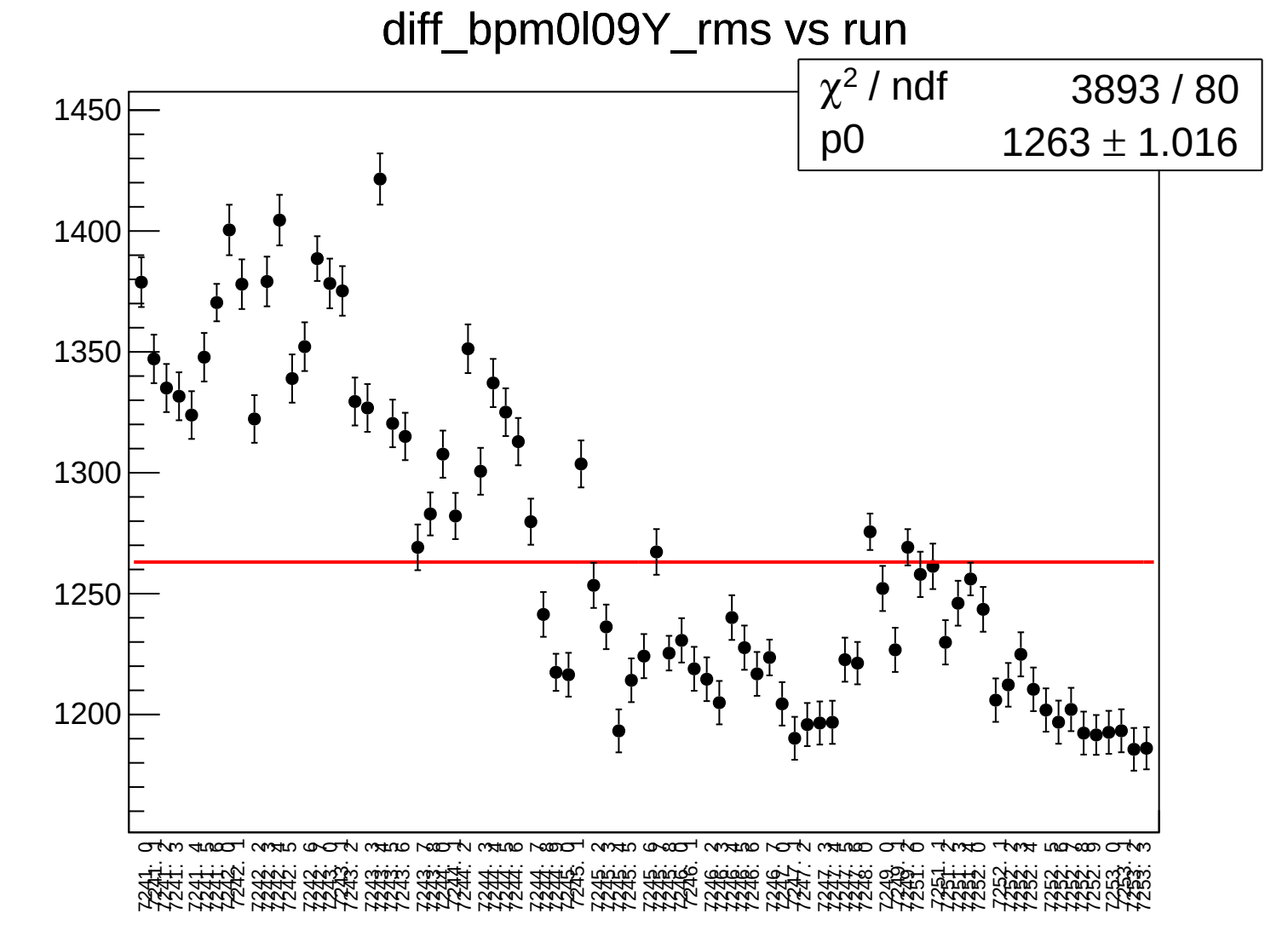

diff_bpm0l09X_mean vs run
χ² / ndf 88.05 / 80
p0 −3.964 ± 8.716
pull
Entries 81
Mean −34.33
Std Dev 0

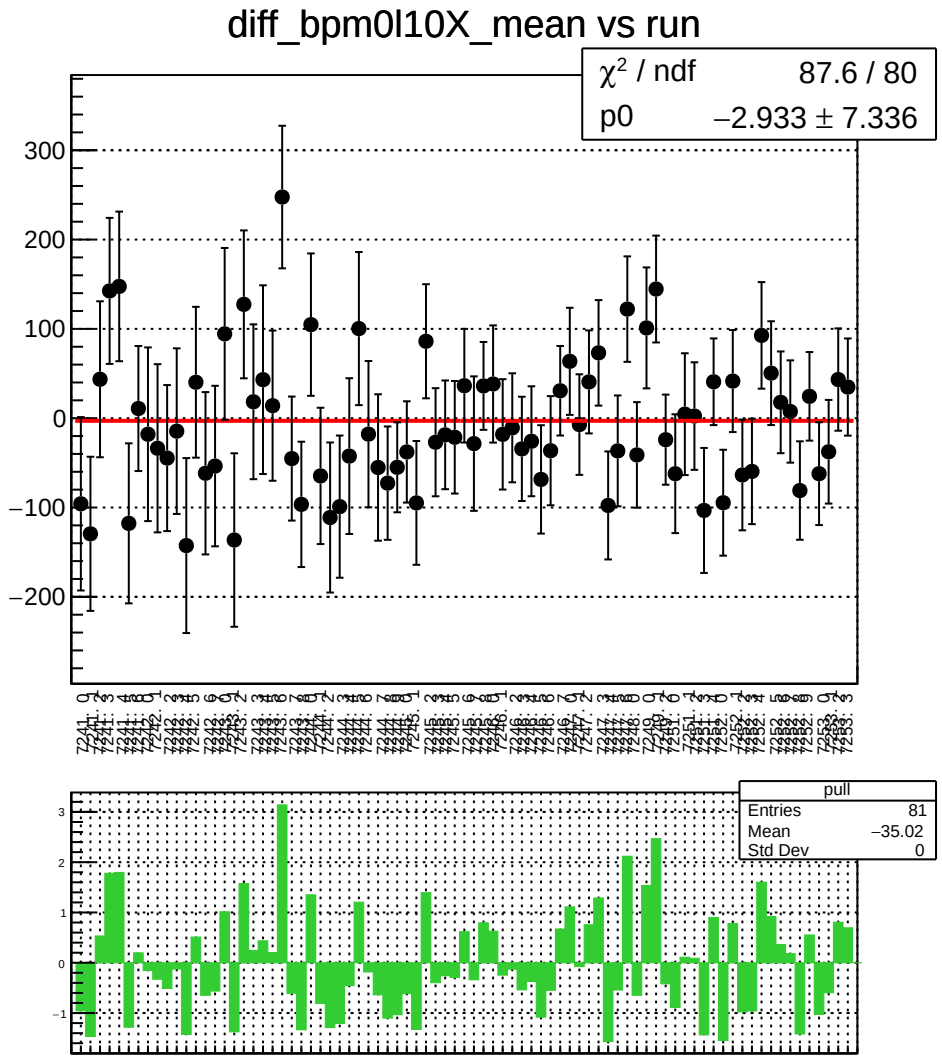

pull1D
Entries 81
Mean −0.01445
Std Dev 1.042

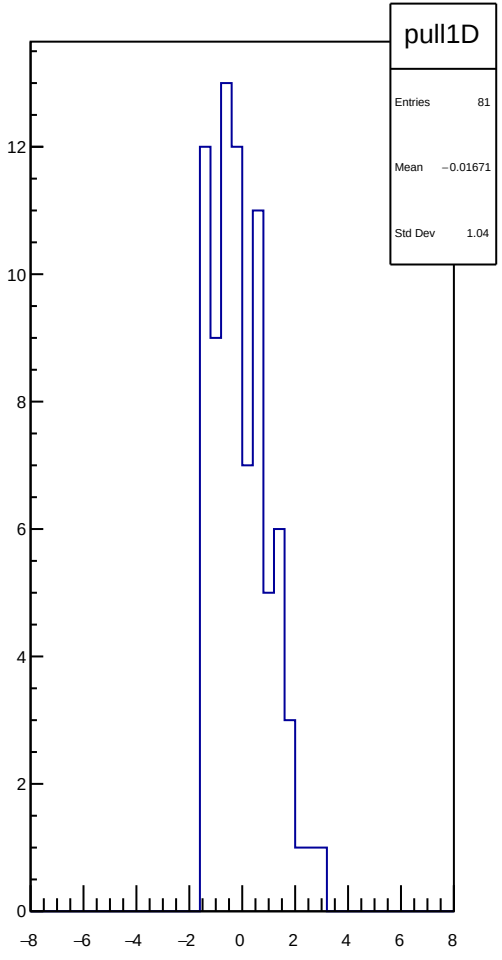

diff_bpm0l09X_rms vs run
χ² / ndf 4.787e+04 / 80
p0 7552 ± 6.163
12000
11000
10000
9000
8000
7000
6000

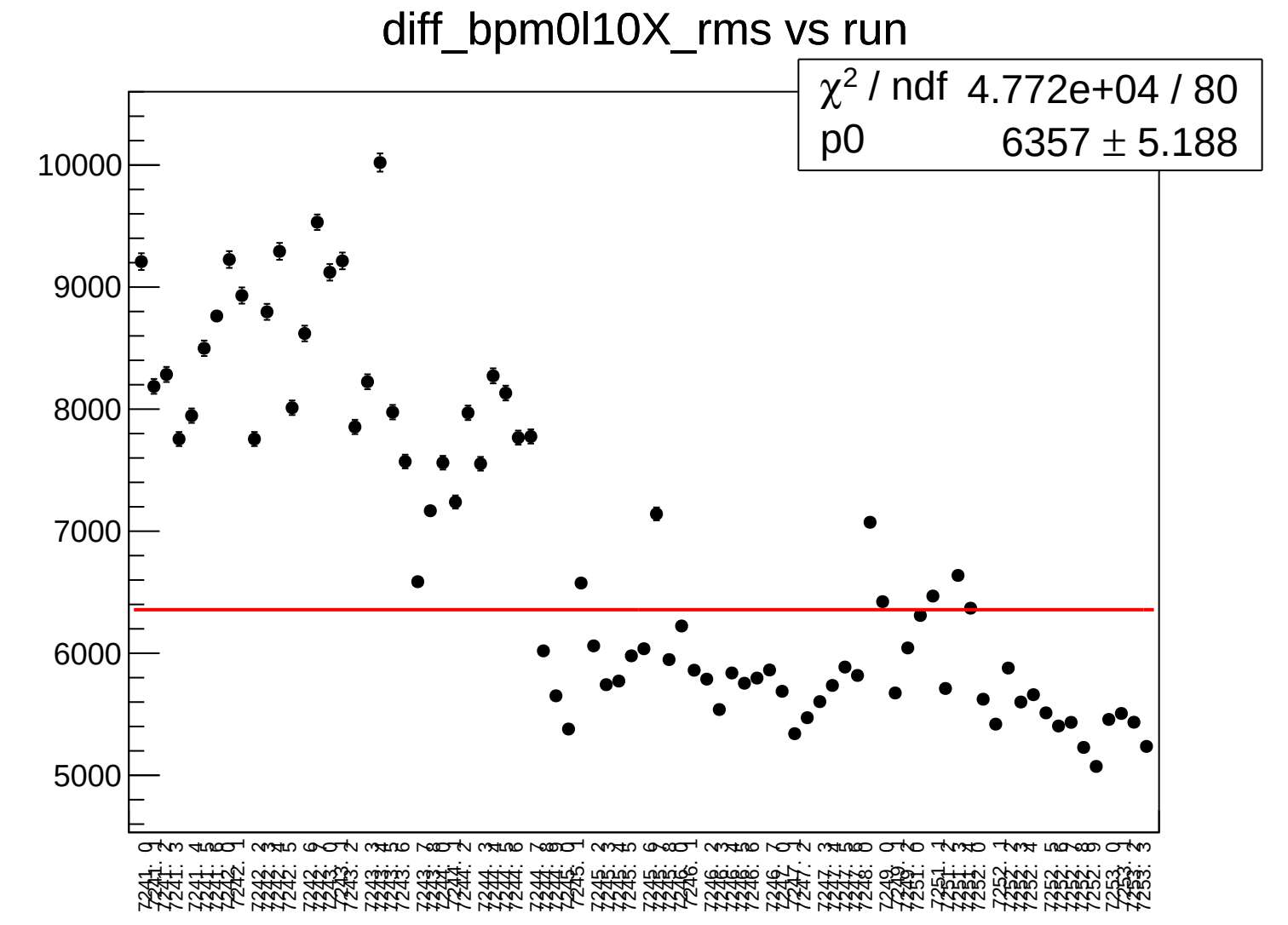

diff_bpm0l09Y_mean vs run
χ² / ndf 91.59 / 80
p0 0.8988 ± 1.437
pull
Entries 81
Mean −231.2
Std Dev 0

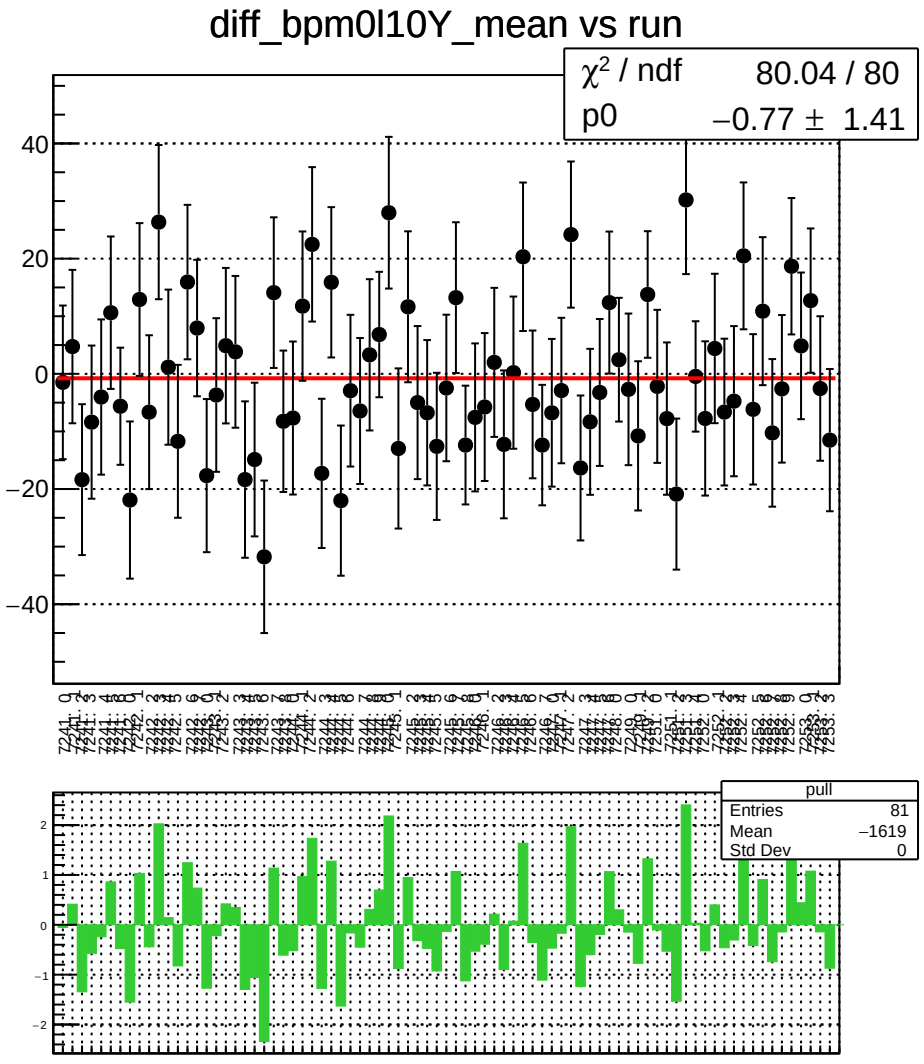

pull1D
Entries 81
Mean −0.009142
Std Dev 1.063

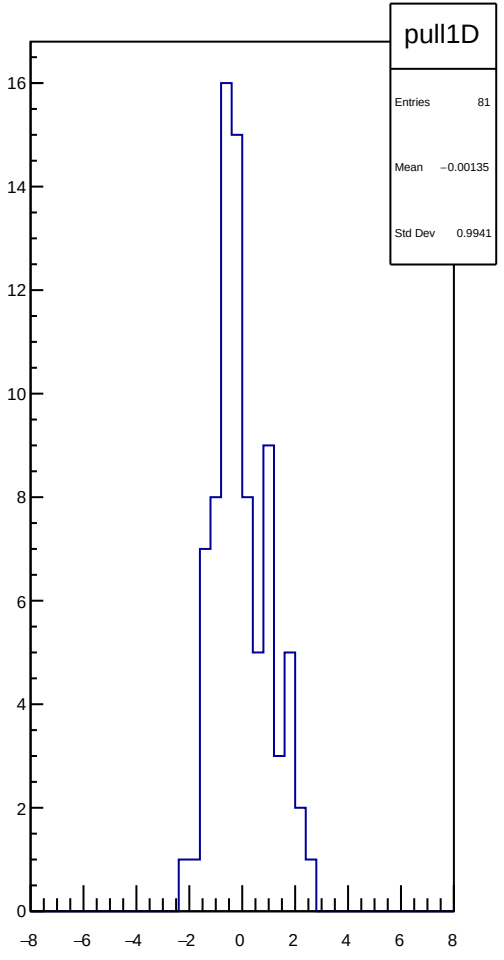

diff_bpm0l09Y_rms vs run
χ² / ndf 3893 / 80
p0 1263 ± 1.016
1450
1400
1350
1300
1250
1200

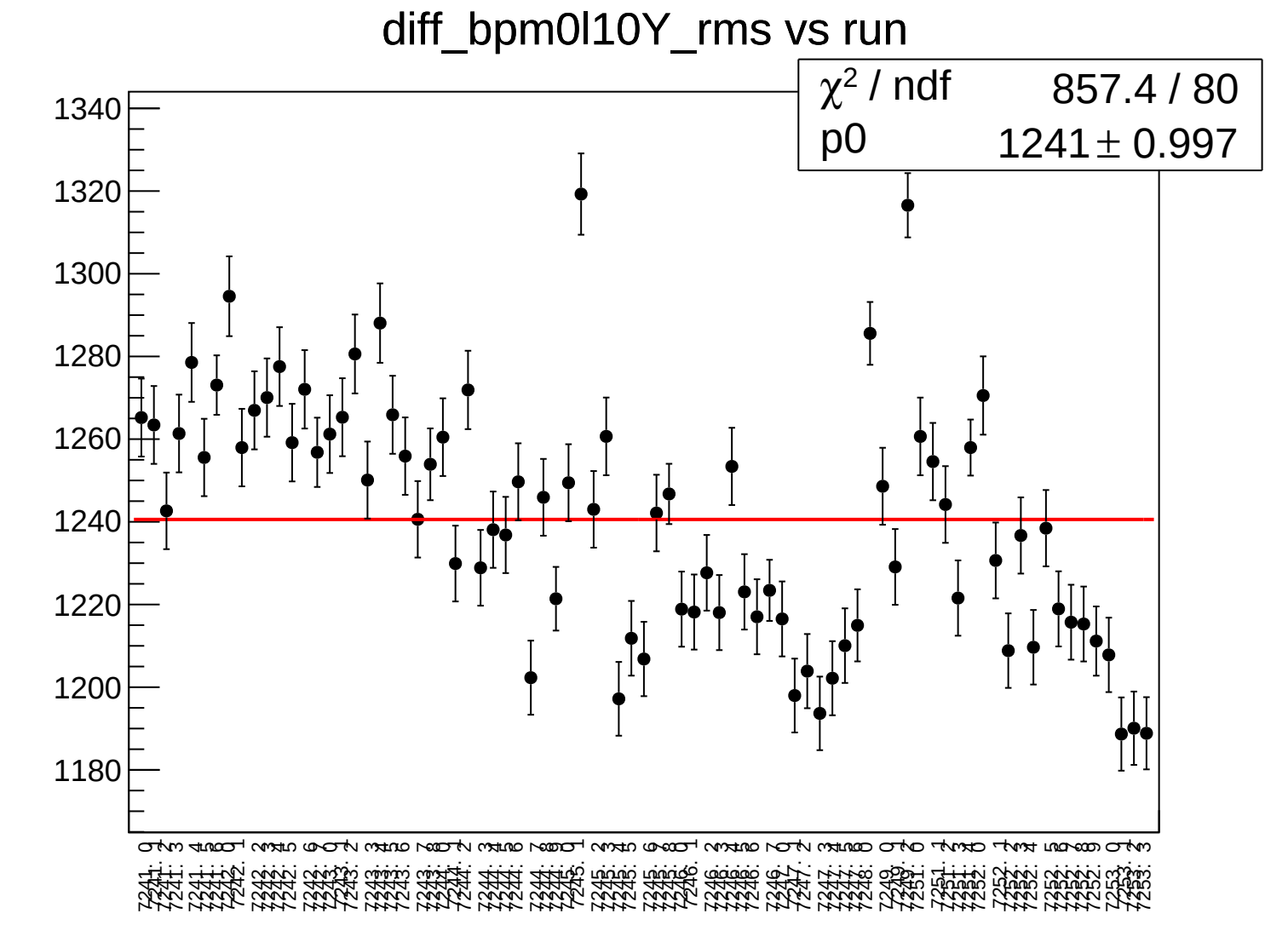

diff_bpm0l10X_mean vs run
χ² / ndf 87.6 / 80
p0 −2.933 ± 7.336
300
200
100
0
−100
−200
pull
Entries 81
Mean −35.02
Std Dev 0
3
2
1
0
−1

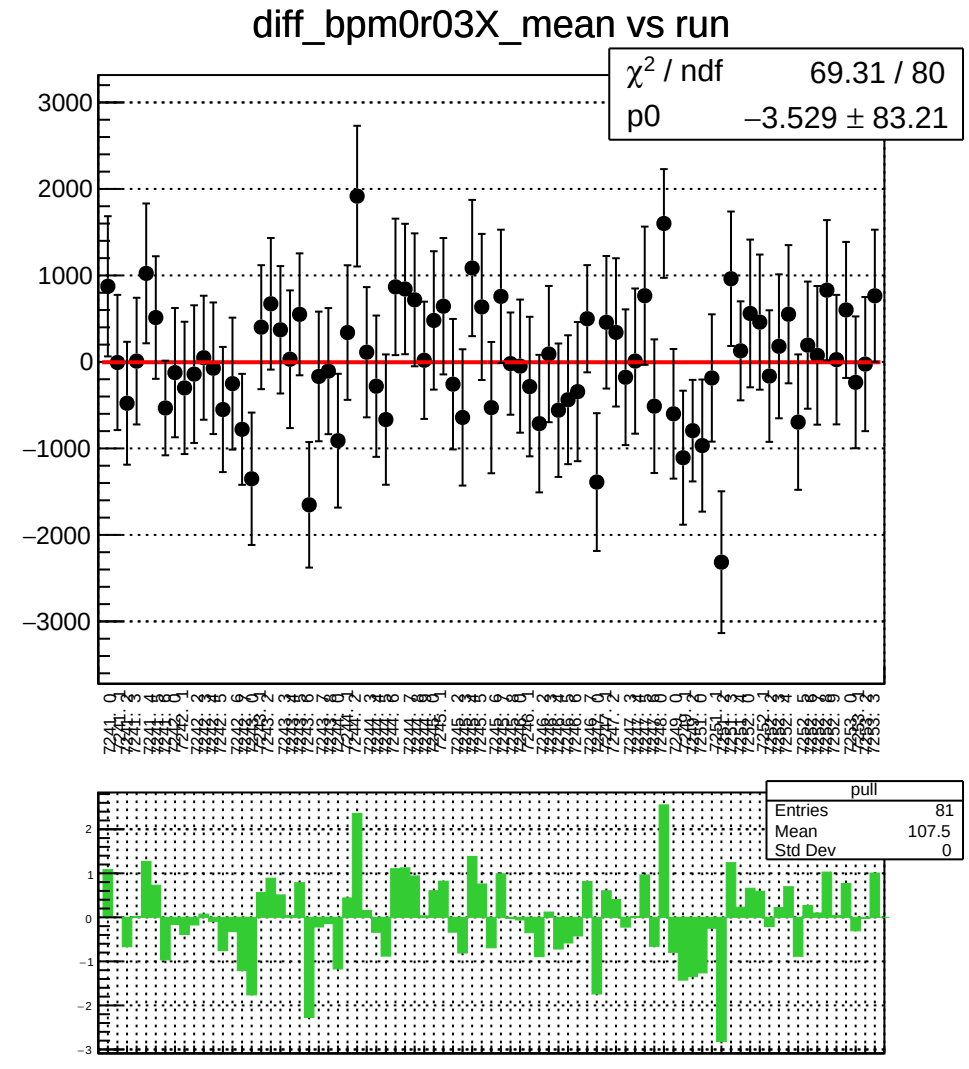

pull1D
Entries 81
Mean −0.01671
Std Dev 1.04
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

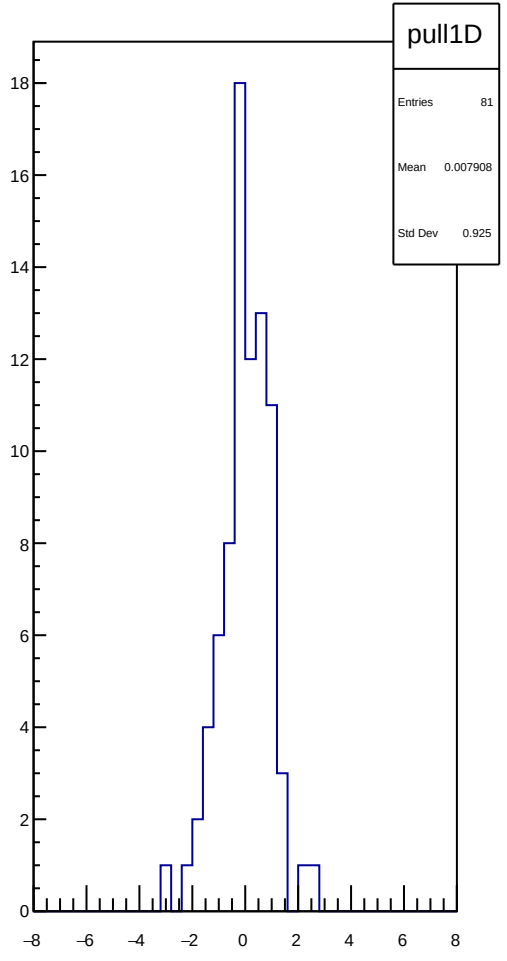

diff_bpm0l10X_rms vs run
χ^2 / ndf 4.772e+04 / 80
p0 6357 ± 5.188
10000
9000
8000
7000
6000
5000

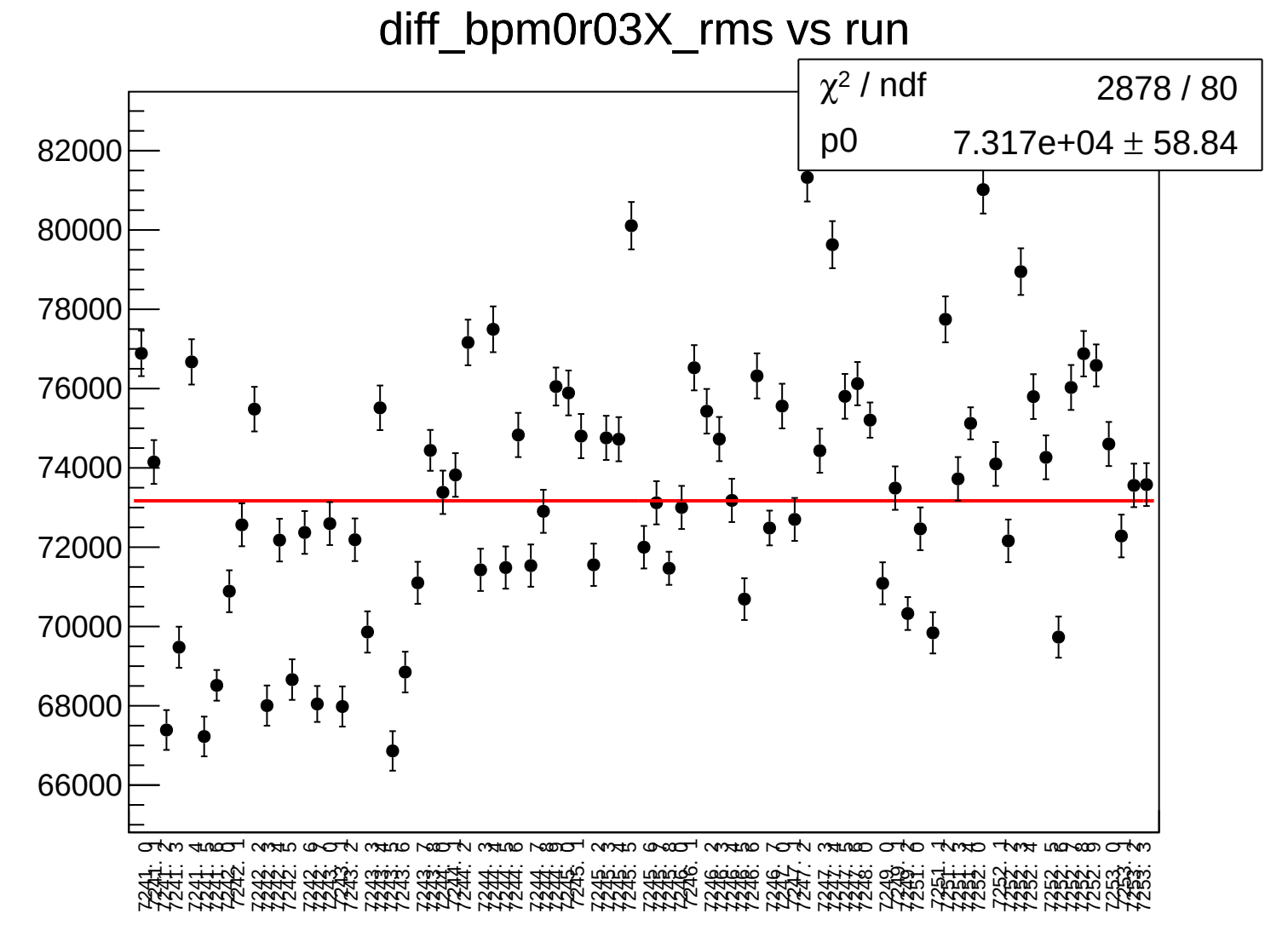

diff_bpm0l10Y_mean vs run
χ² / ndf 80.04 / 80
p0 −0.77 ± 1.41
pull
Entries 81
Mean −1619
Std Dev 0

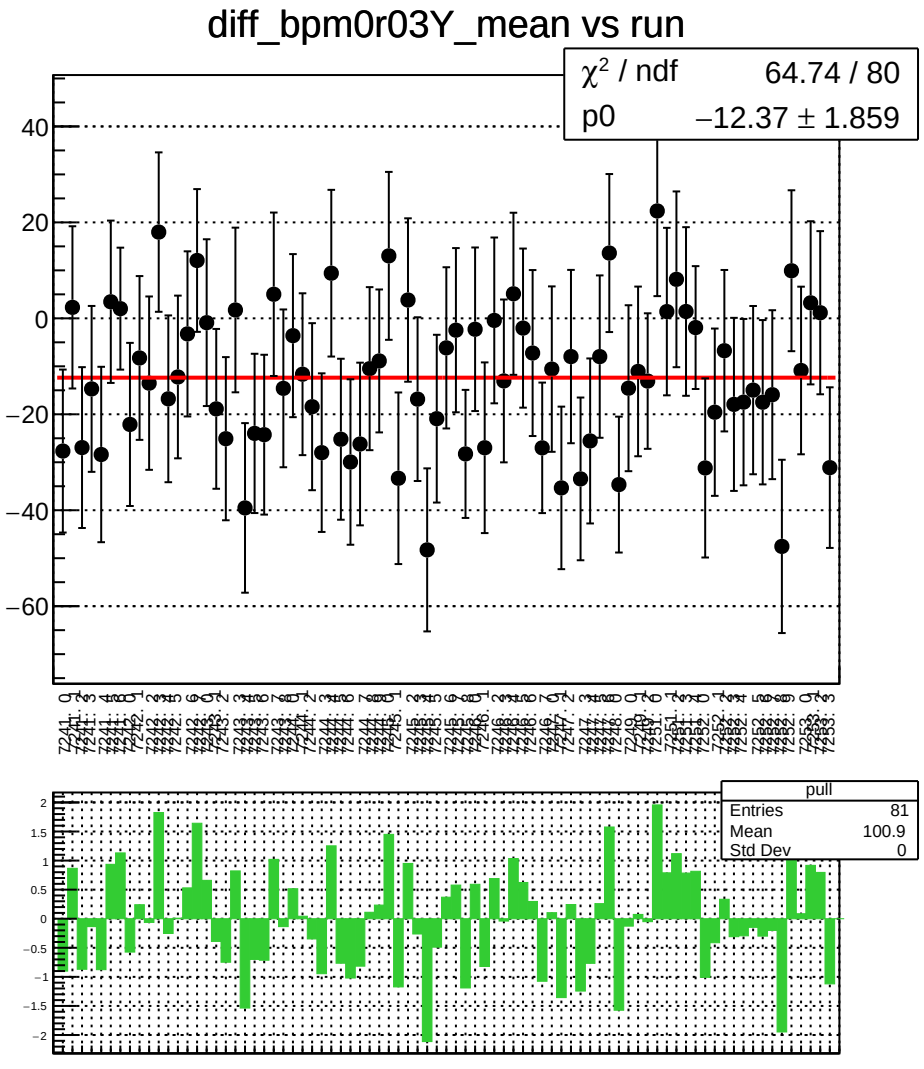

pull1D
Entries 81
Mean −0.00135
Std Dev 0.9941

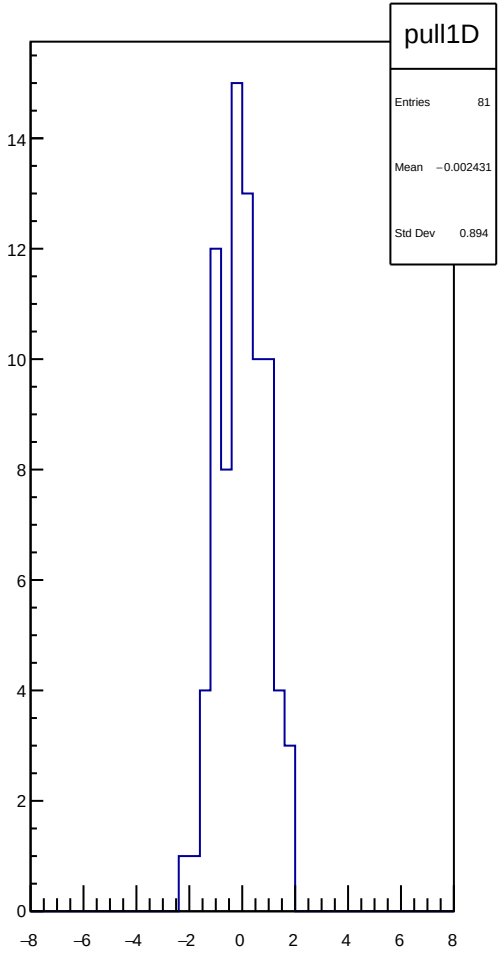

diff_bpm0l10Y_rms vs run
χ² / ndf 857.4 / 80
p0 1241 ± 0.997
1340
1320
1300
1280
1260
1240
1220
1200
1180

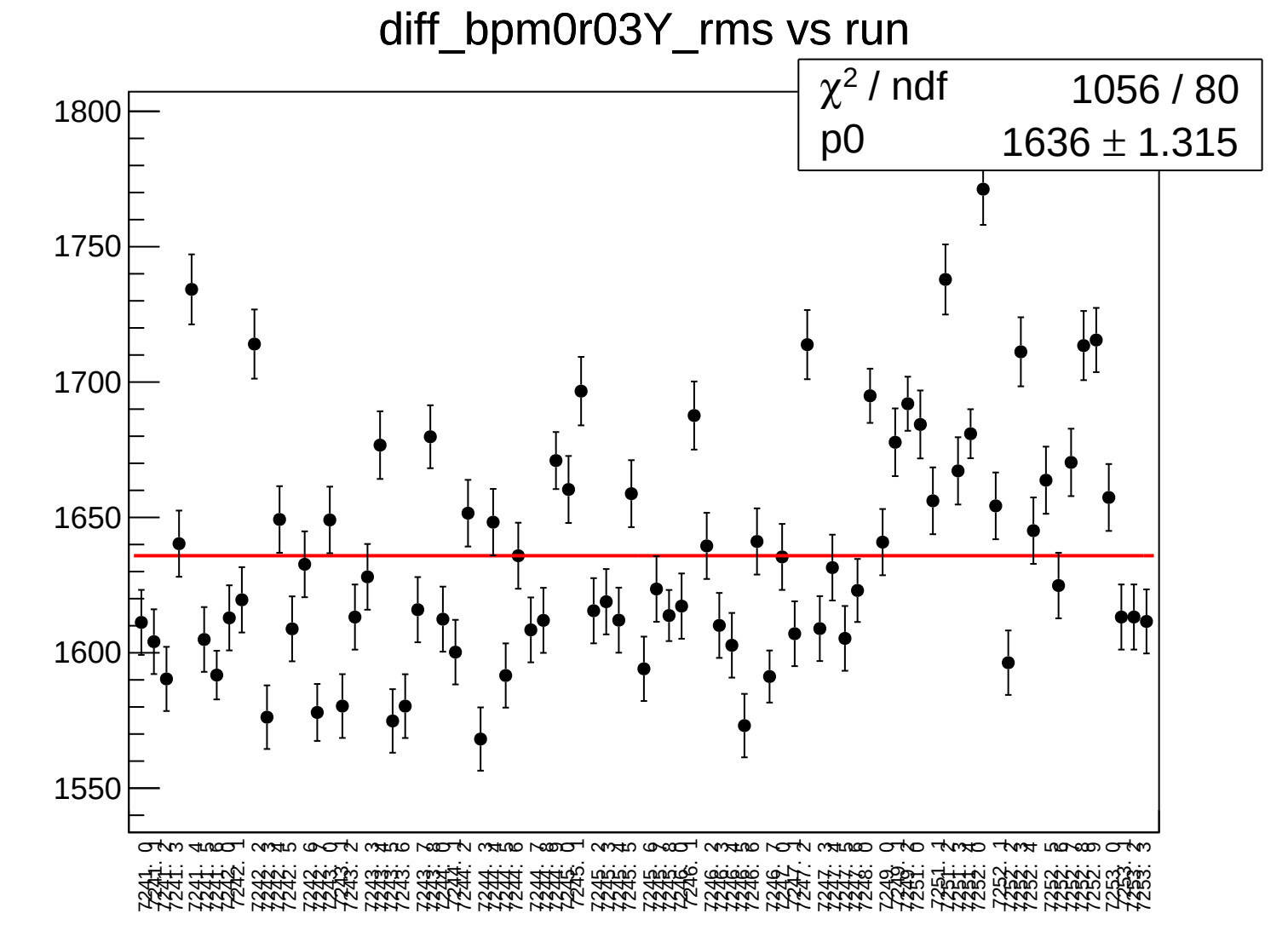

diff_bpm0r03X_mean vs run
χ² / ndf 69.31 / 80
p0 −3.529 ± 83.21
pull
Entries 81
Mean 107.5
Std Dev 0

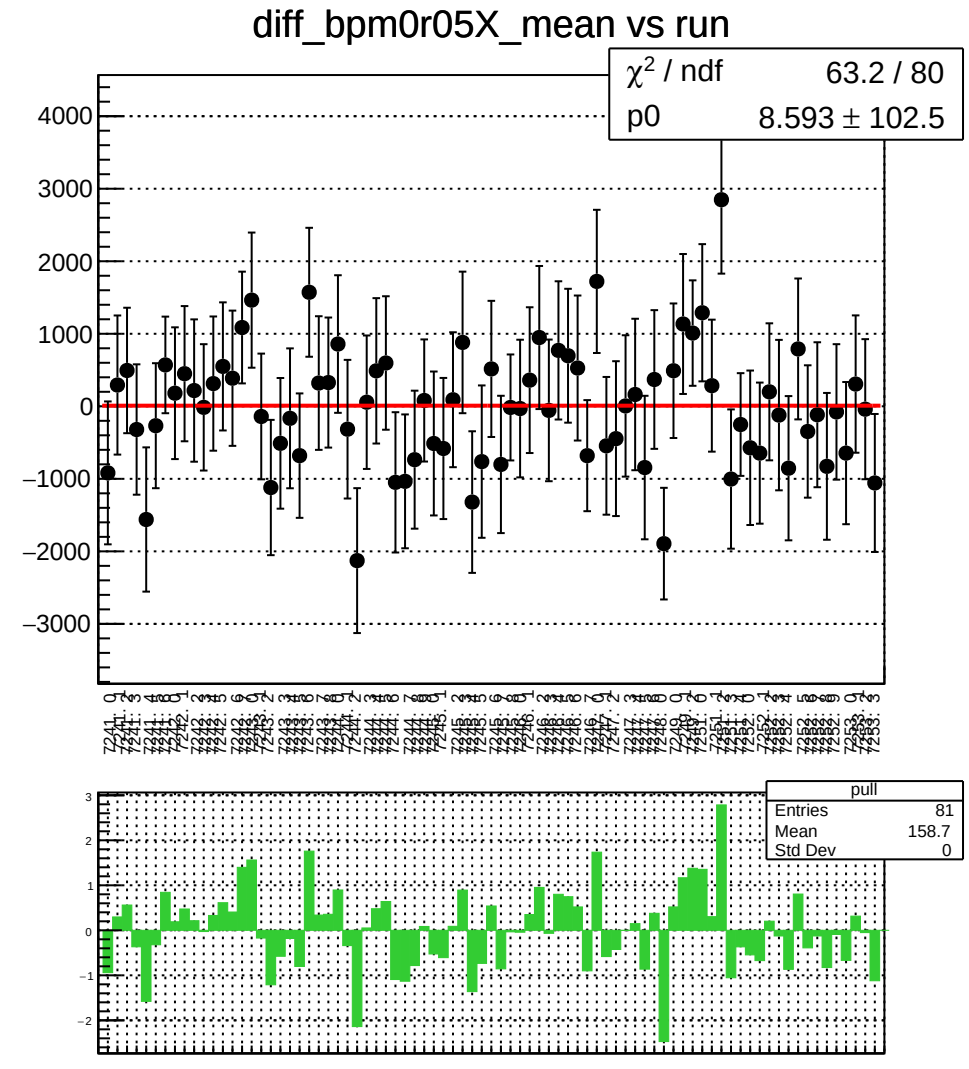

pull1D
Entries 81
Mean 0.007908
Std Dev 0.925

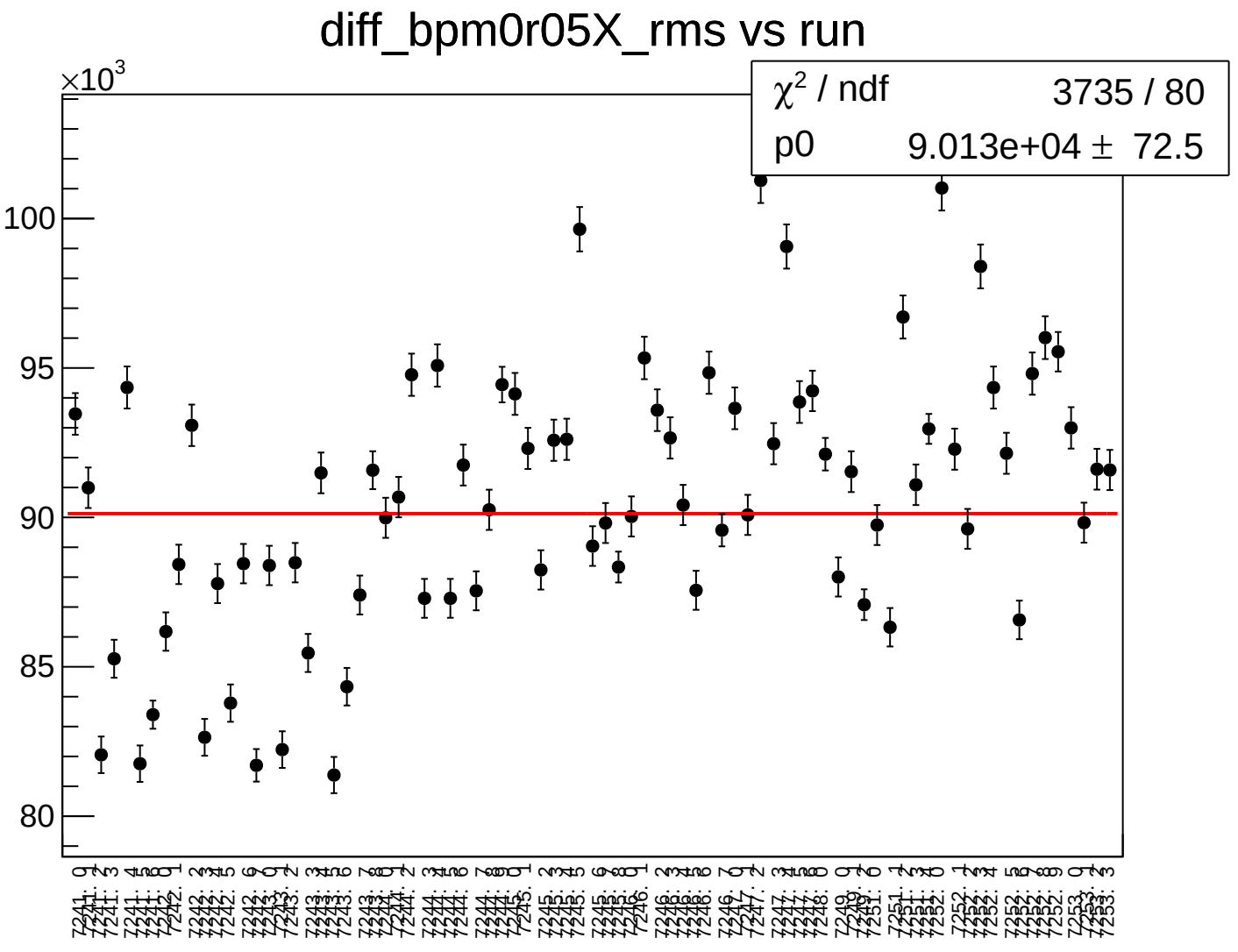

diff_bpm0r03X_rms vs run
χ² / ndf 2878 / 80
p0 7.317e+04 ± 58.84
82000
80000
78000
76000
74000
72000
70000
68000
66000

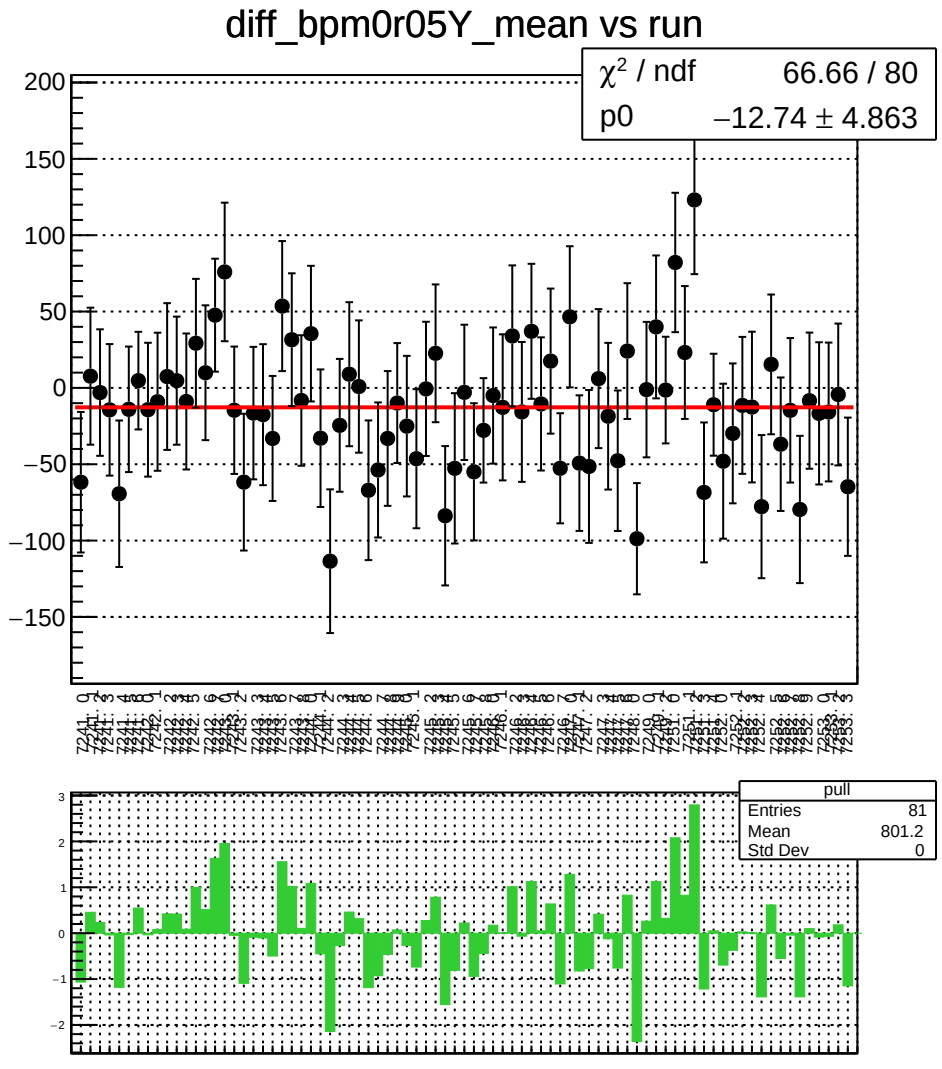

diff_bpm0r03Y_mean vs run
χ² / ndf 64.74 / 80
p0 −12.37 ± 1.859
pull
Entries 81
Mean 100.9
Std Dev 0

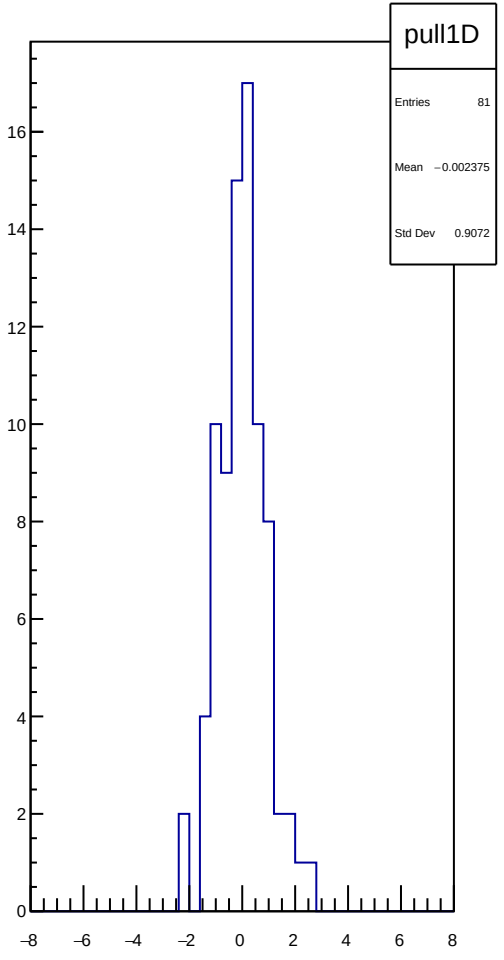

pull1D
Entries 81
Mean −0.002431
Std Dev 0.894

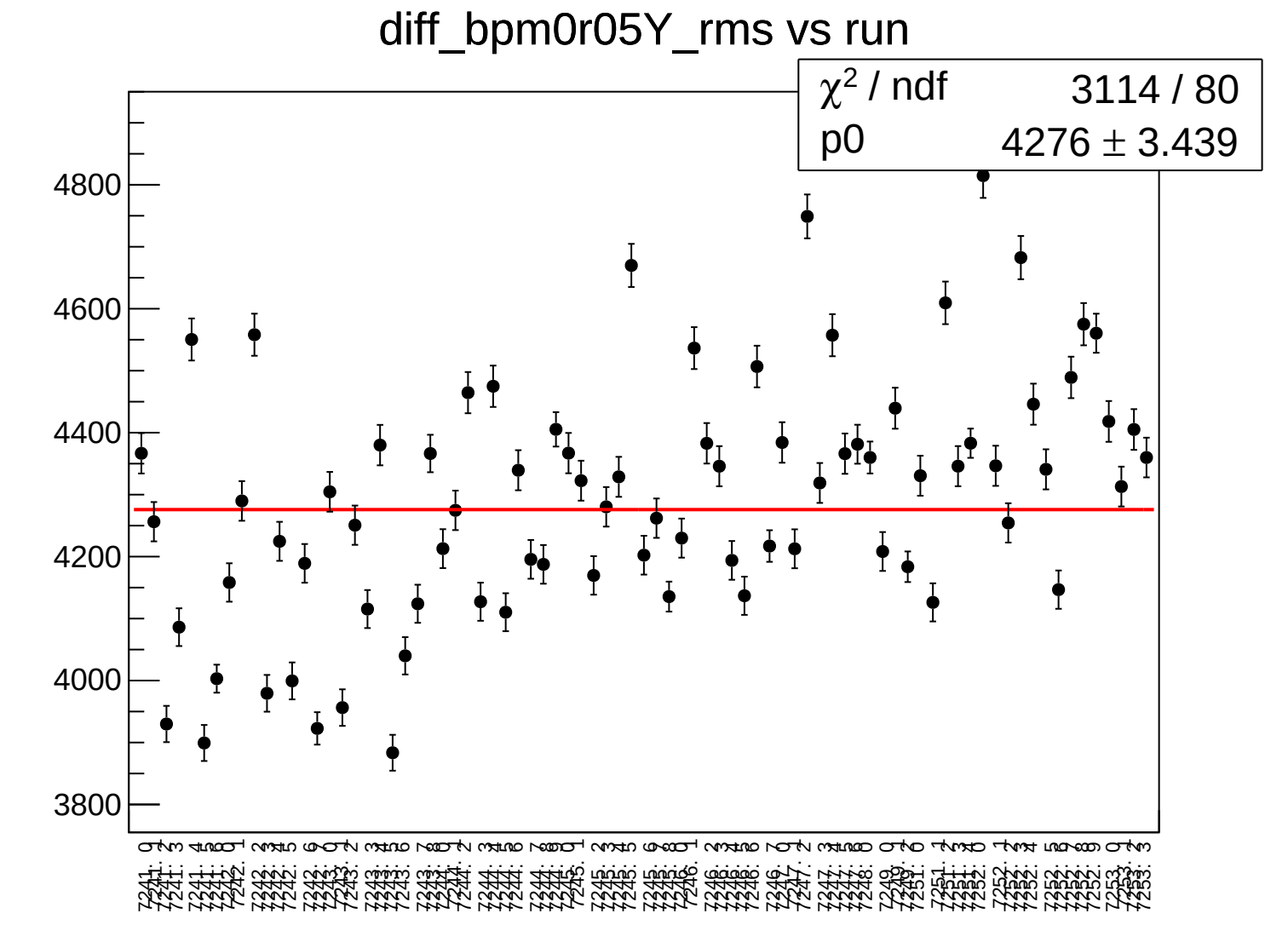

diff_bpm0r03Y_rms vs run
χ² / ndf 1056 / 80
p0 1636 ± 1.315
1800
1750
1700
1650
1600
1550

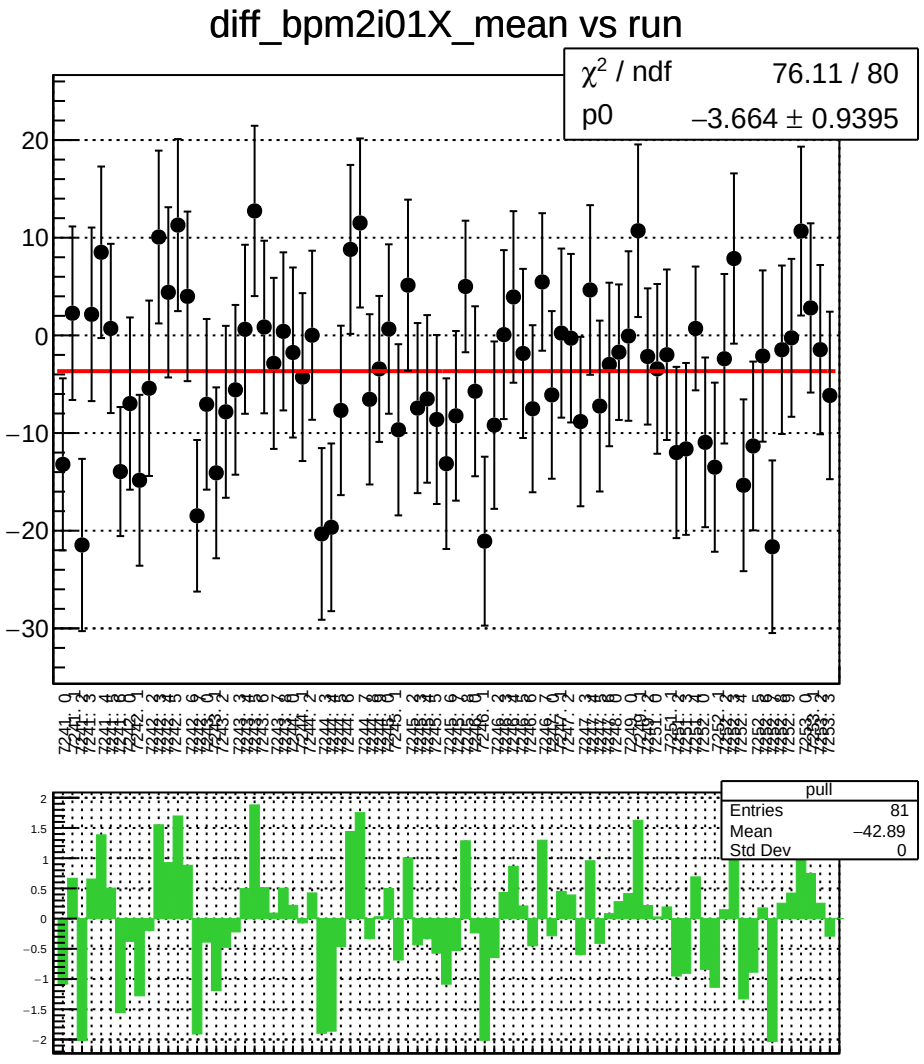

diff_bpm0r05X_mean vs run
χ² / ndf 63.2 / 80
p0 8.593 ± 102.5
pull
Entries 81
Mean 158.7
Std Dev 0
pull1D
Entries 81
Mean −0.006876
Std Dev 0.8833

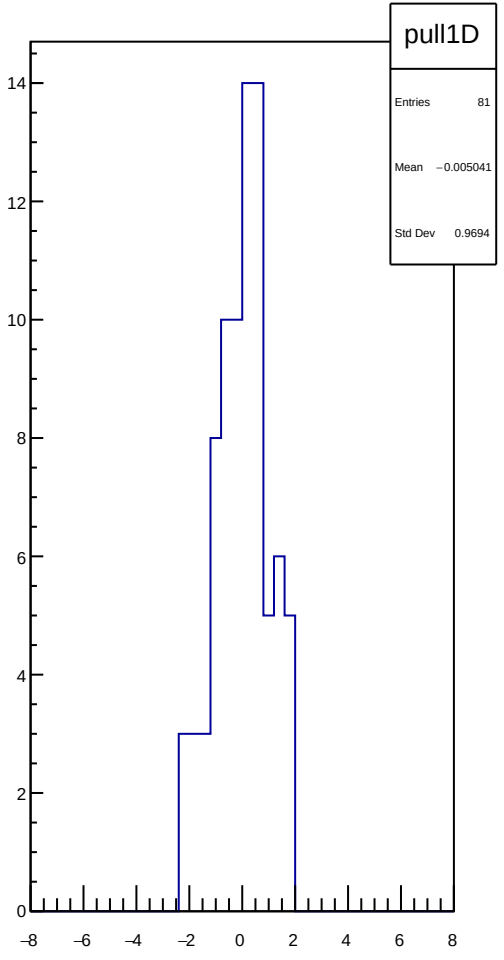

diff_bpm0r05X_rms vs run
×10^3
χ^2 / ndf 3735 / 80
p0 9.013e+04 ± 72.5
100
95
90
85
80

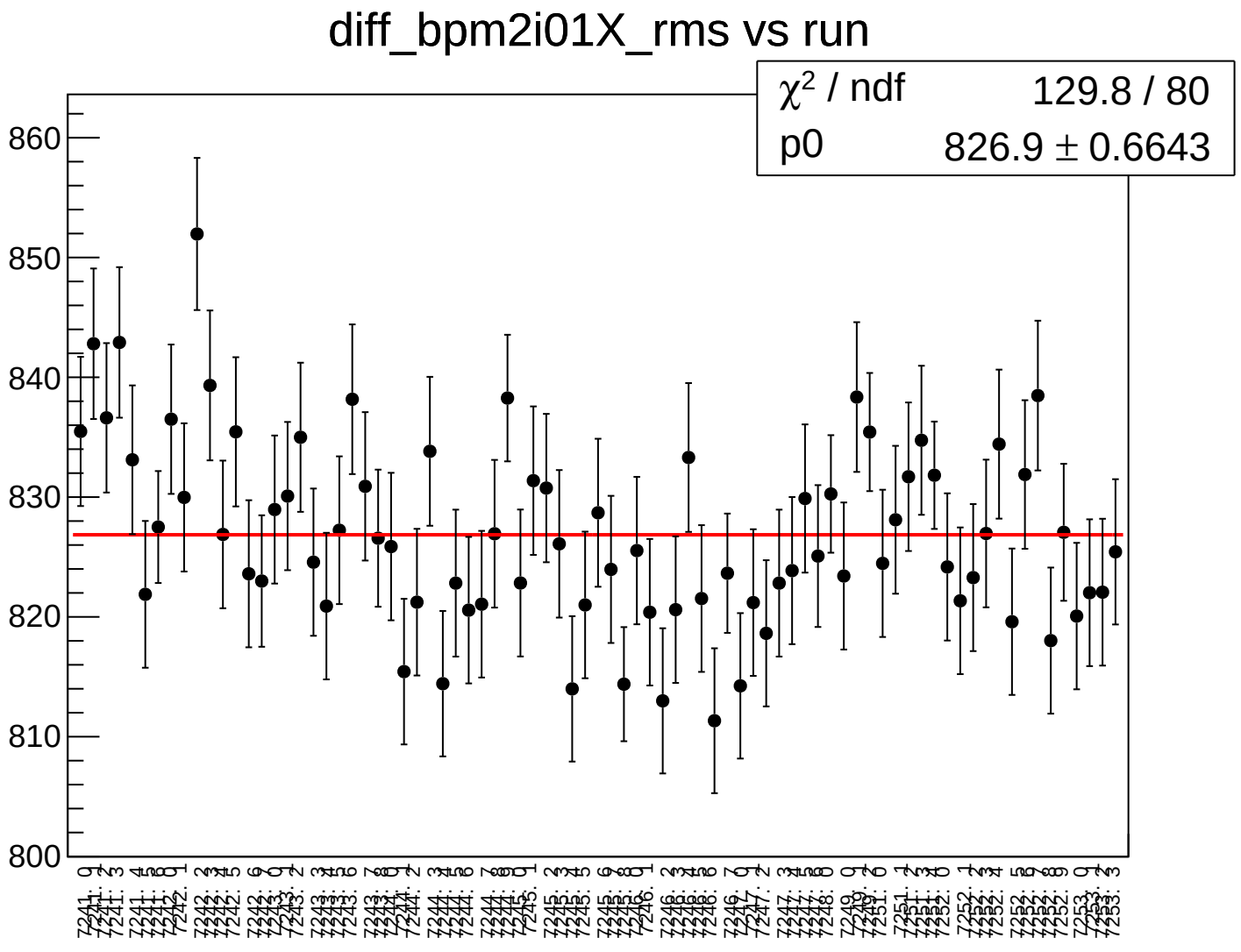

diff_bpm0r05Y_mean vs run
χ² / ndf 66.66 / 80
p0 −12.74 ± 4.863
pull
Entries 81
Mean 801.2
Std Dev 0

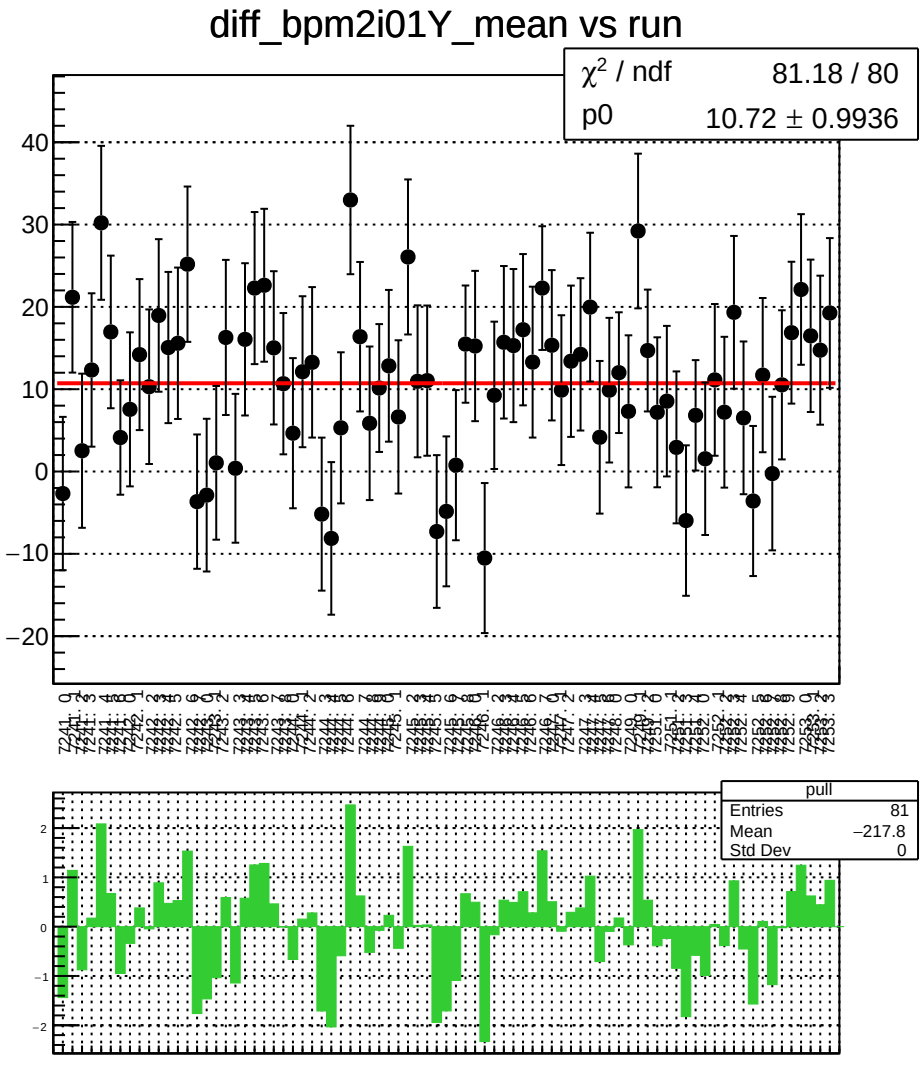

pull1D
Entries 81
Mean −0.002375
Std Dev 0.9072

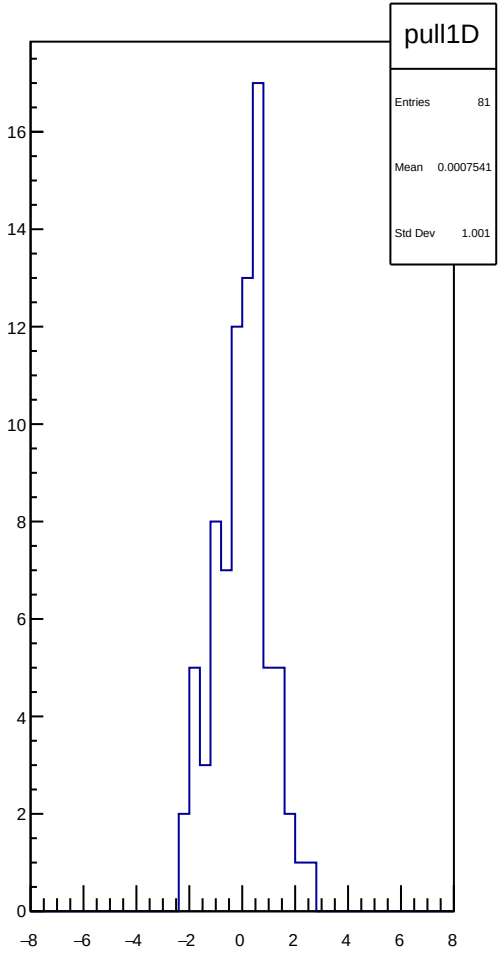

diff_bpm0r05Y_rms vs run
χ² / ndf 3114 / 80
p0 4276 ± 3.439
4800
4600
4400
4200
4000
3800

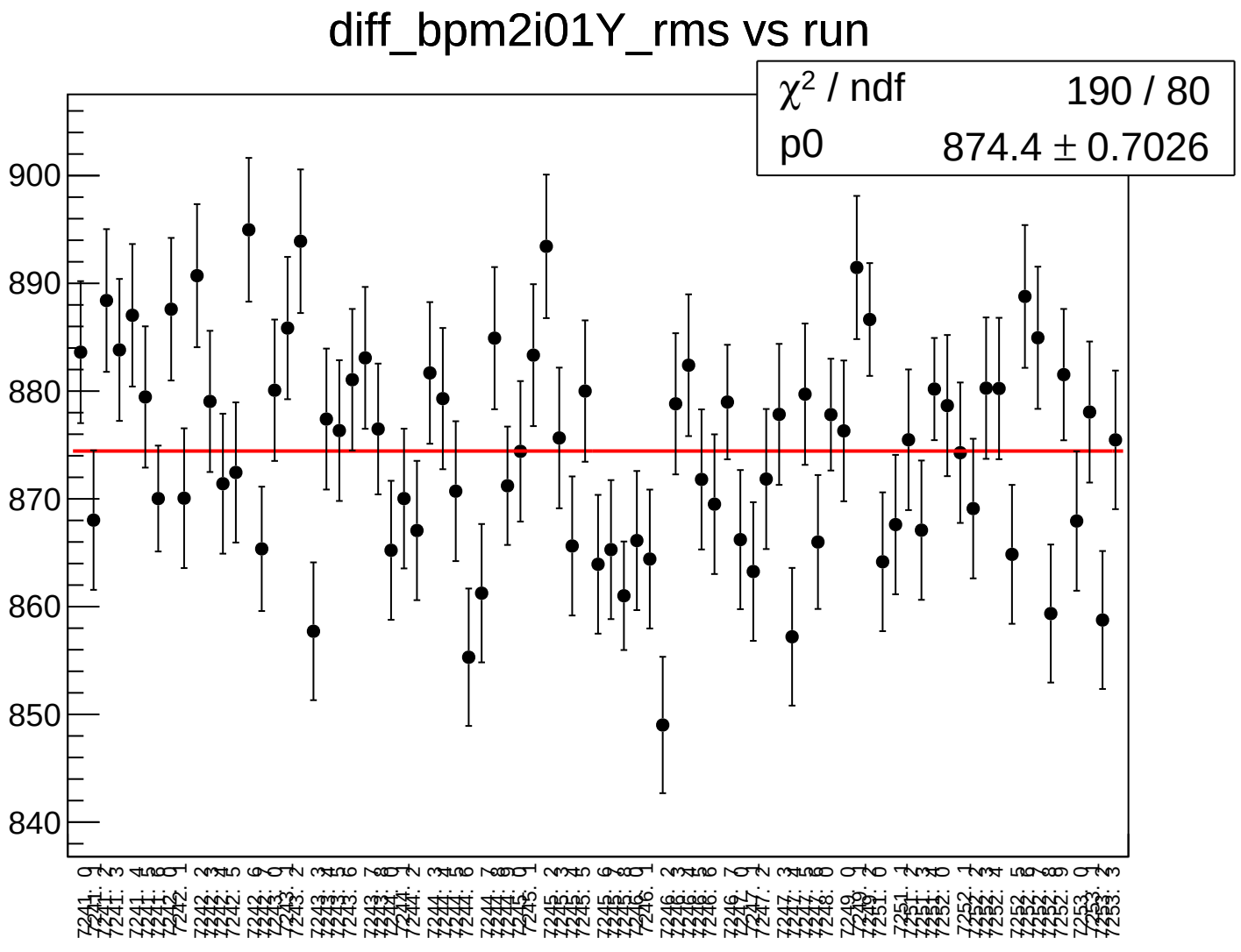

diff_bpm2i01X_mean vs run
χ² / ndf 76.11 / 80
p0 −3.664 ± 0.9395
pull
Entries 81
Mean −42.89
Std Dev 0

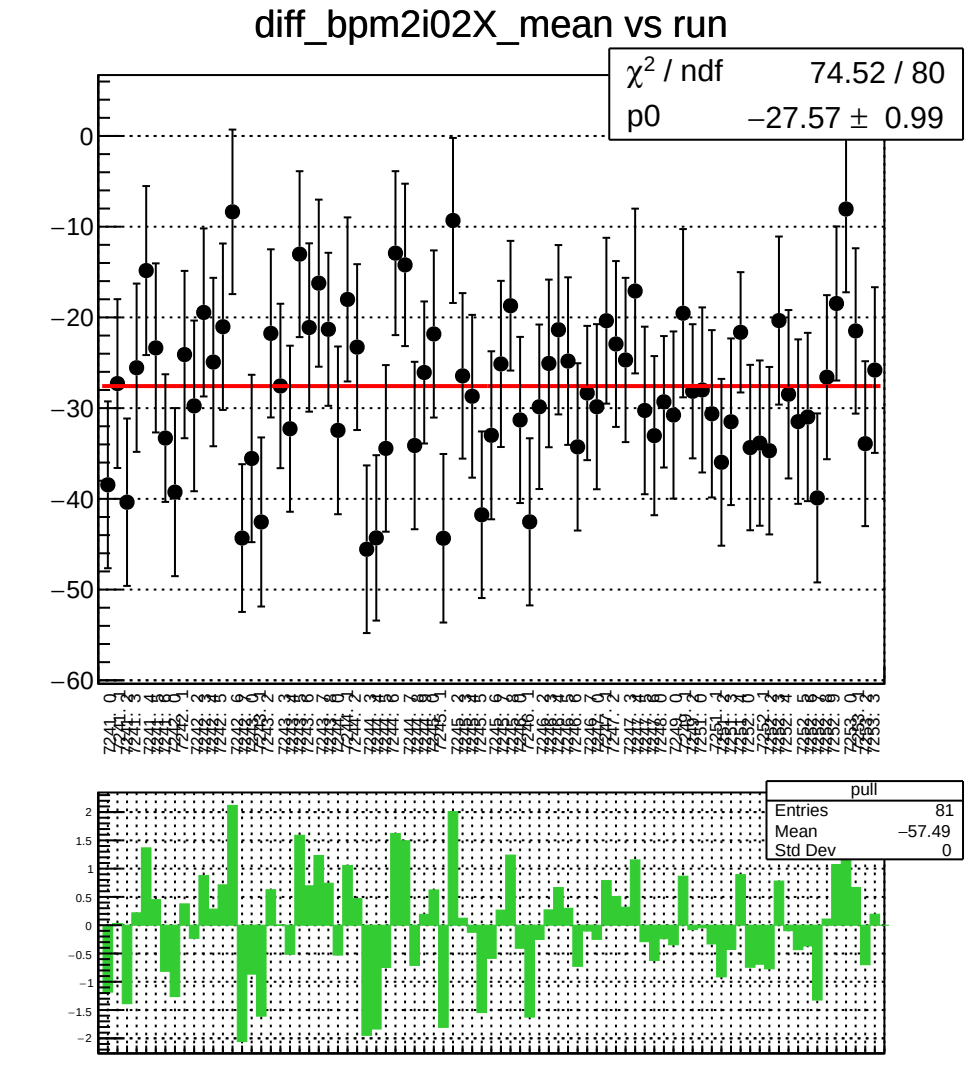

pull1D
Entries 81
Mean −0.005041
Std Dev 0.9694

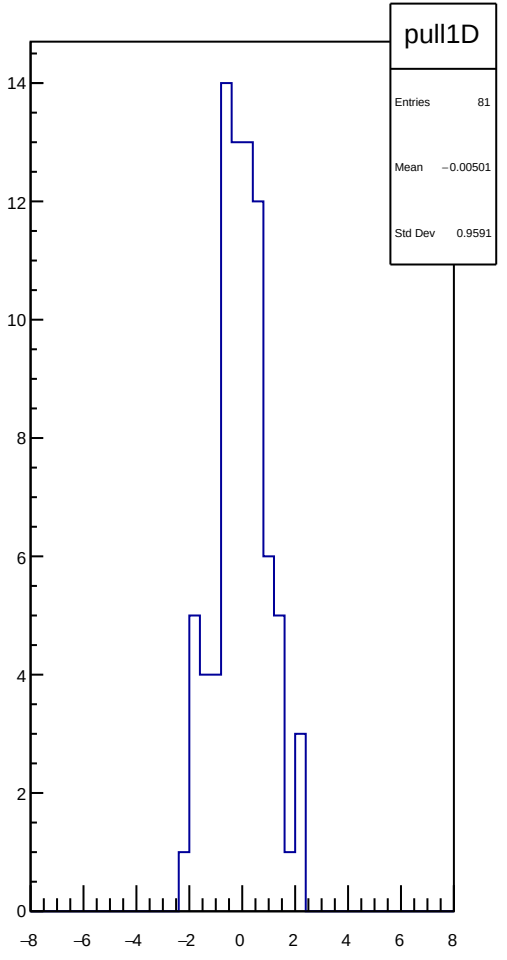

diff_bpm2i01X_rms vs run
χ² / ndf 129.8 / 80
p0 826.9 ± 0.6643
860
850
840
830
820
810
800

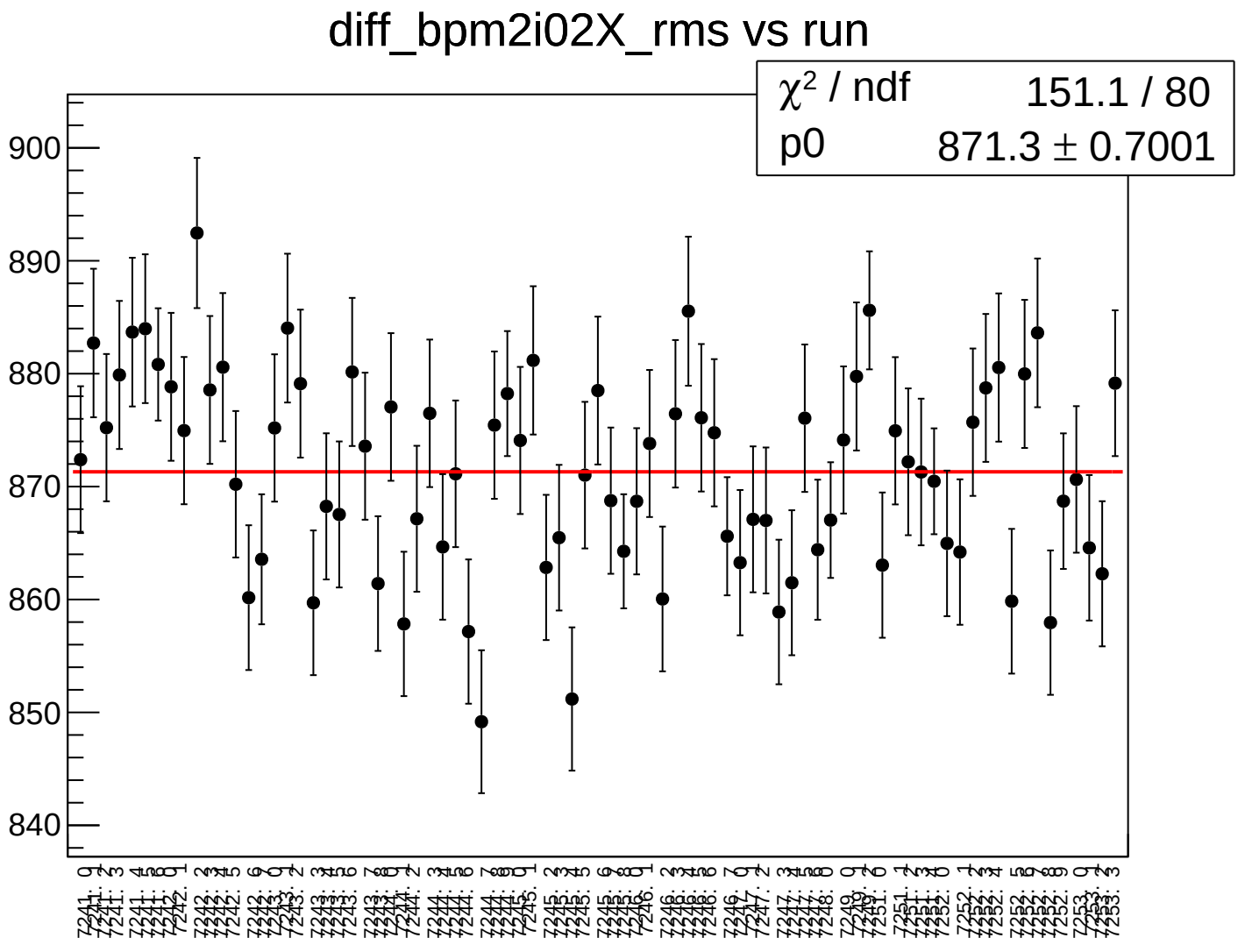

diff_bpm2i01Y_mean vs run
χ² / ndf 81.18 / 80
p0 10.72 ± 0.9936
pull
Entries 81
Mean −217.8
Std Dev 0

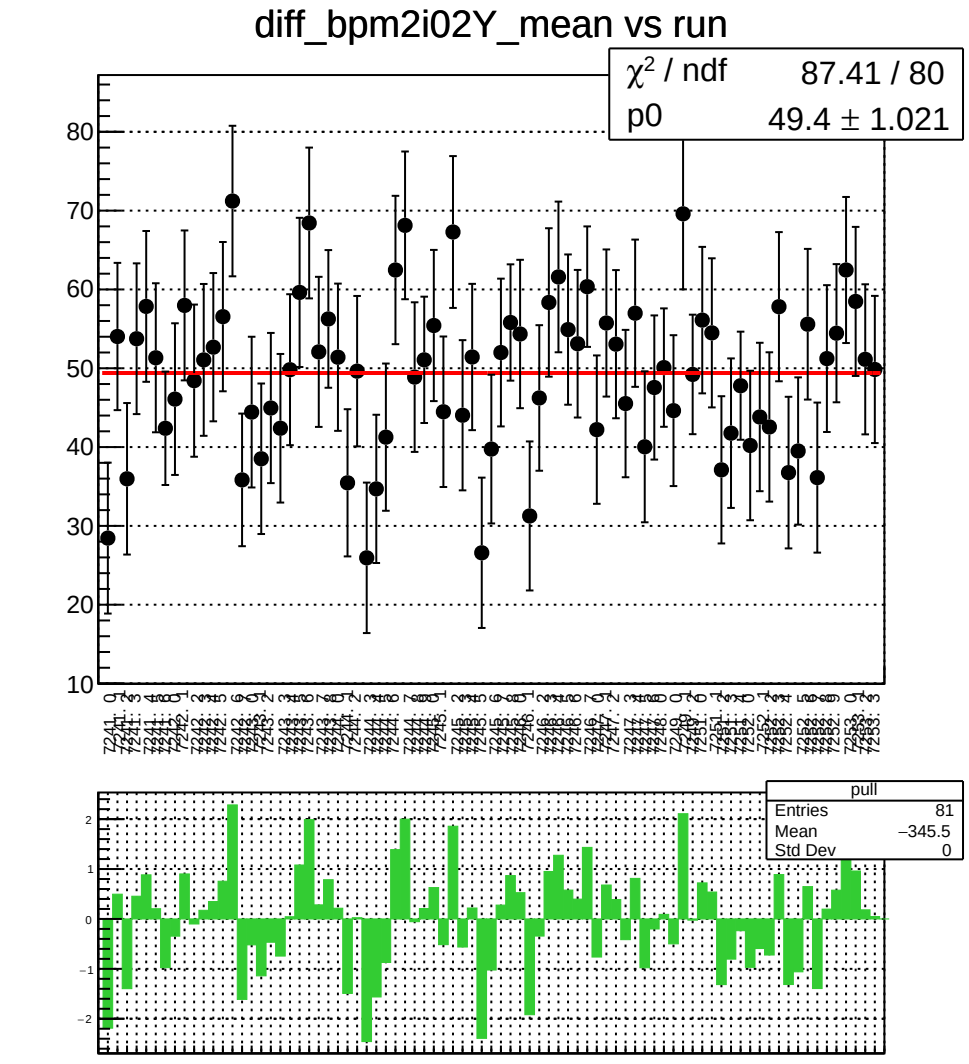

pull1D
Entries 81
Mean 0.0007541
Std Dev 1.001

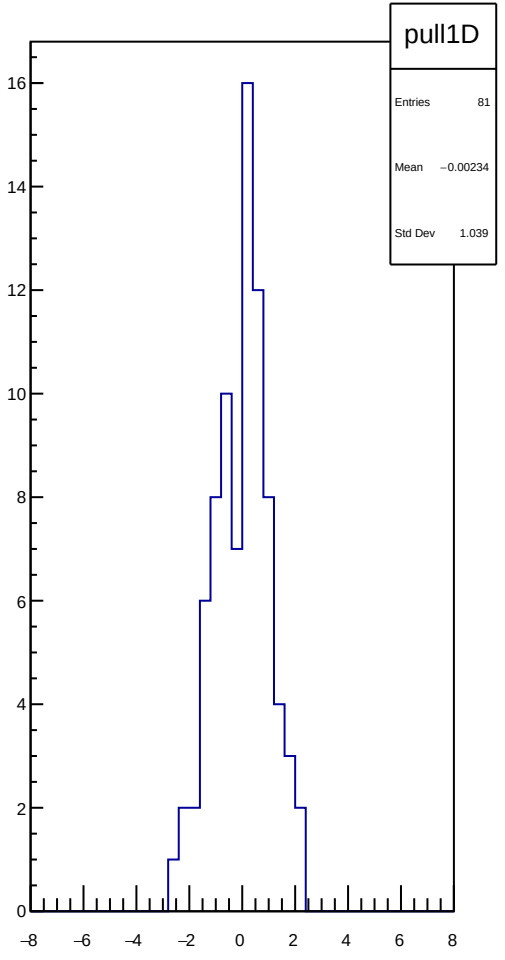

diff_bpm2i01Y_rms vs run
χ² / ndf 190 / 80
p0 874.4 ± 0.7026
900
890
880
870
860
850
840

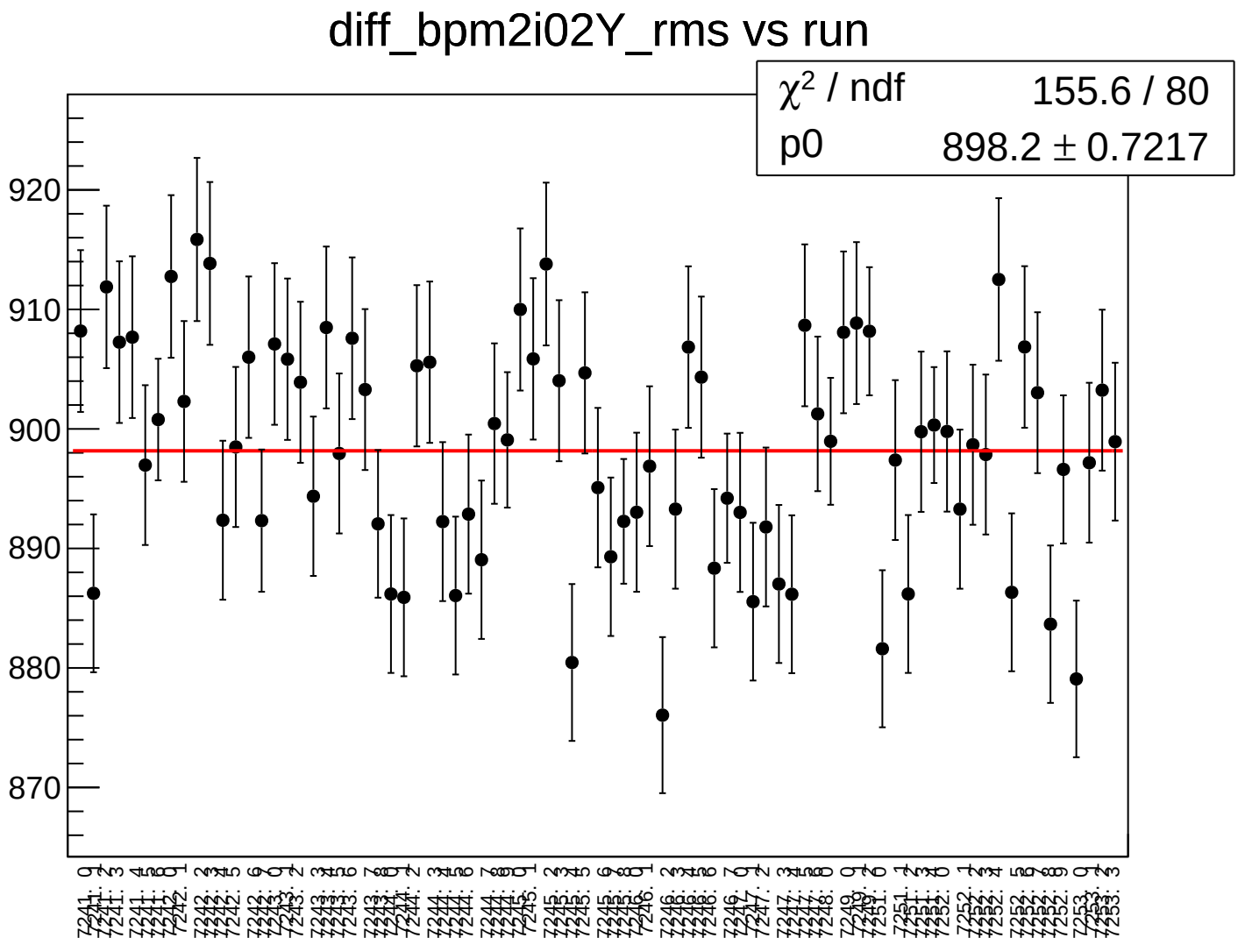

diff_bpm2i02X_mean vs run
χ² / ndf 74.52 / 80
p0 −27.57 ± 0.99
pull
Entries 81
Mean −57.49
Std Dev 0

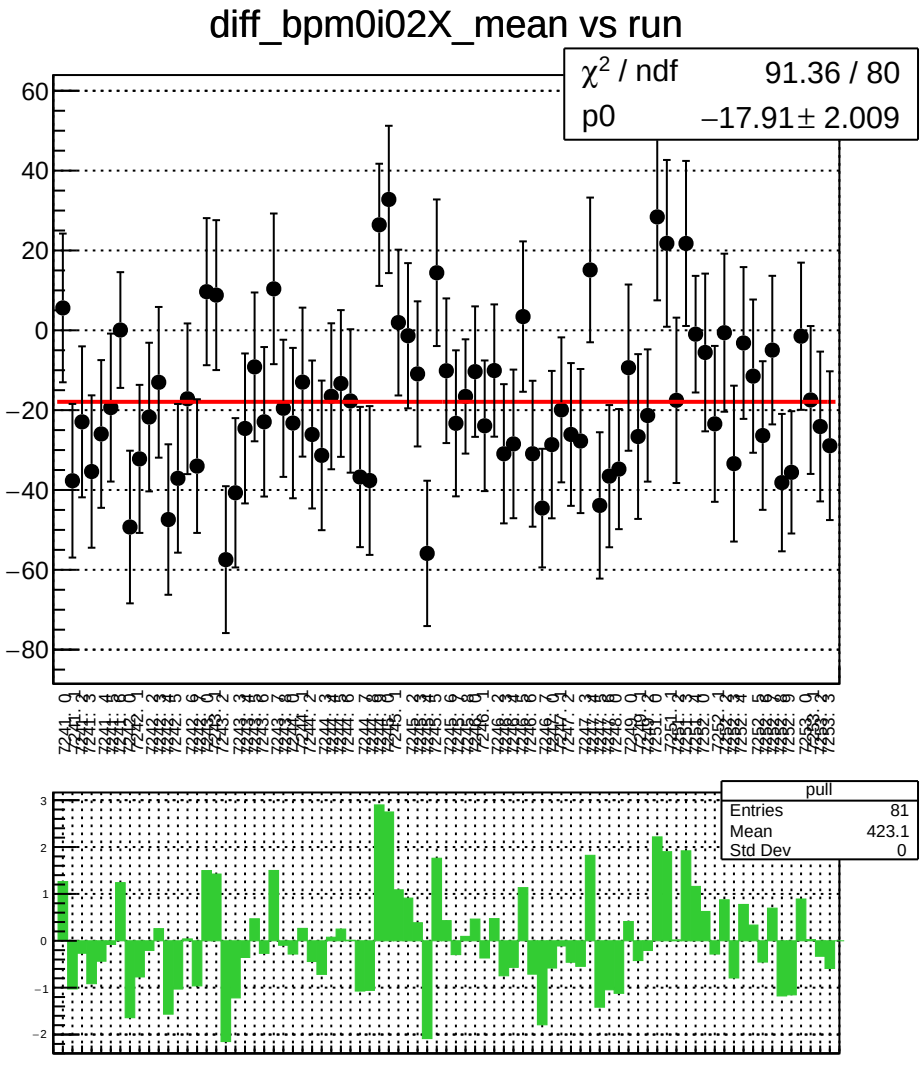

pull1D
Entries 81
Mean −0.00501
Std Dev 0.9591

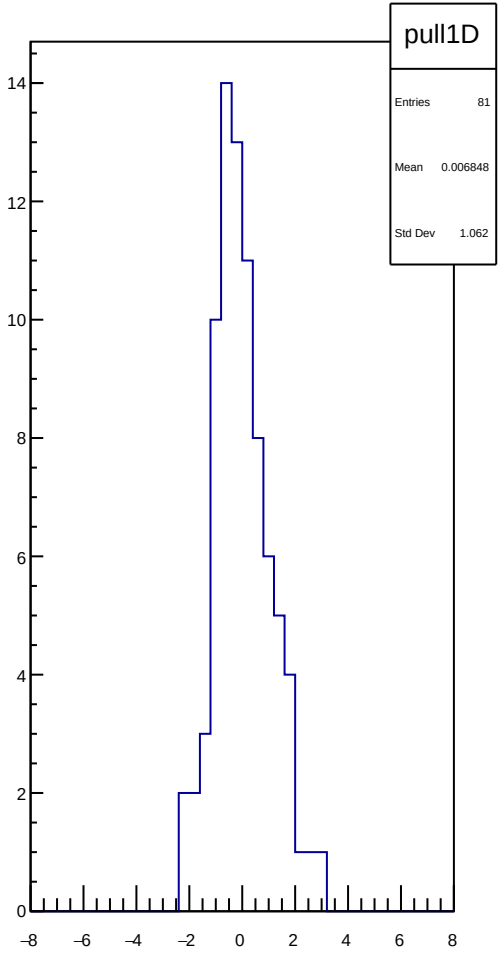

diff_bpm2i02X_rms vs run
χ² / ndf 151.1 / 80
p0 871.3 ± 0.7001
900
890
880
870
860
850
840

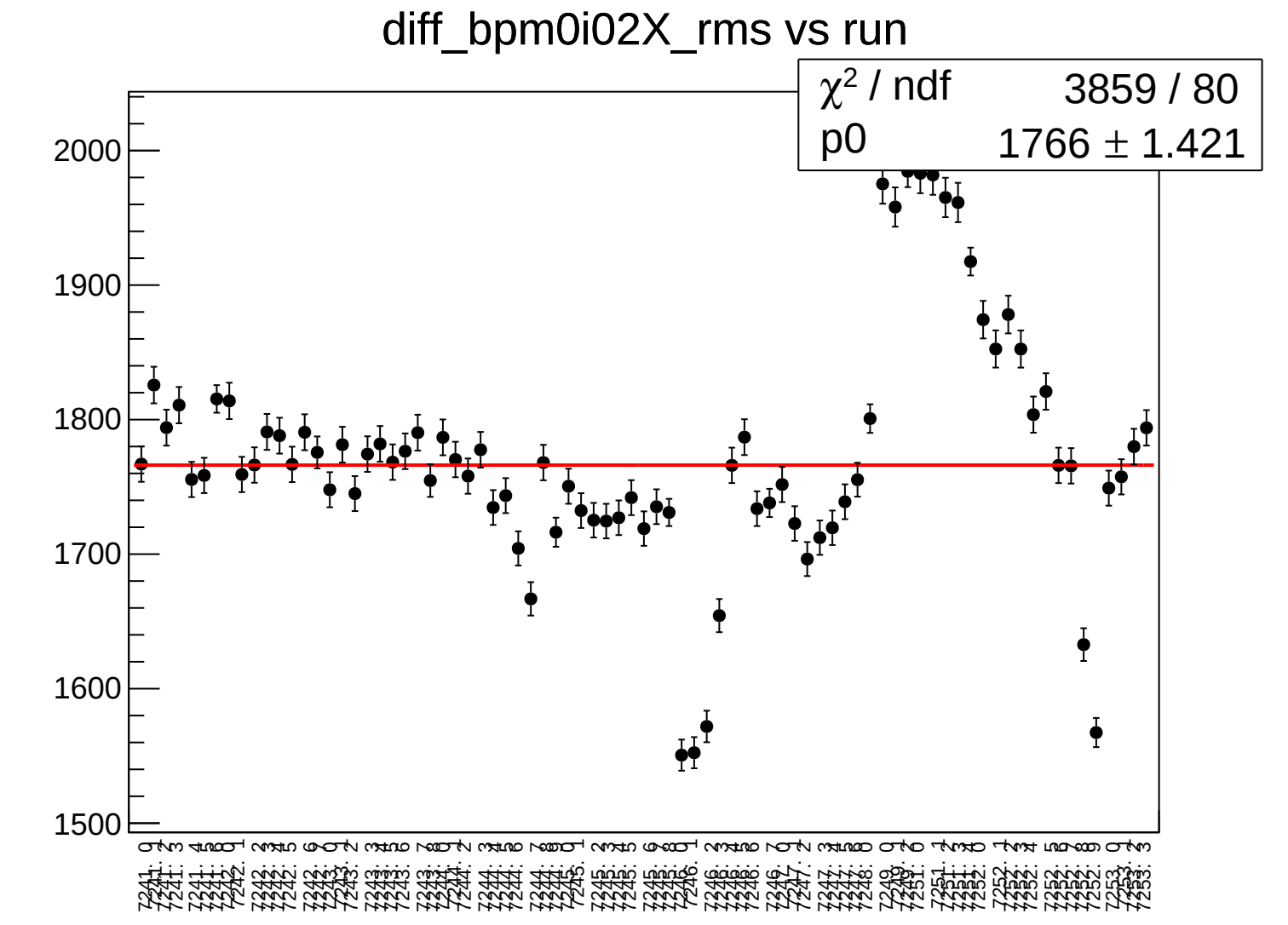

diff_bpm2i02Y_mean vs run
χ² / ndf 87.41 / 80
p0 49.4 ± 1.021
pull
Entries 81
Mean −345.5
Std Dev 0

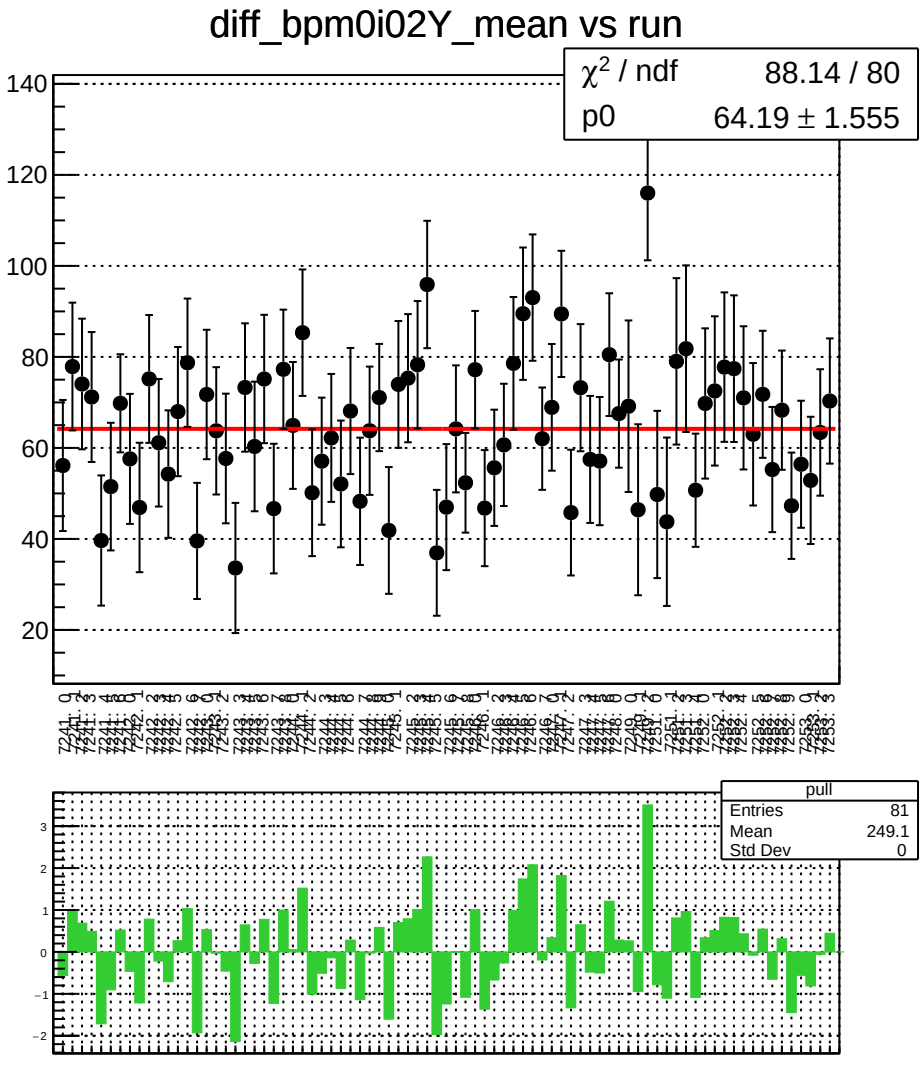

pull1D
Entries 81
Mean −0.00234
Std Dev 1.039

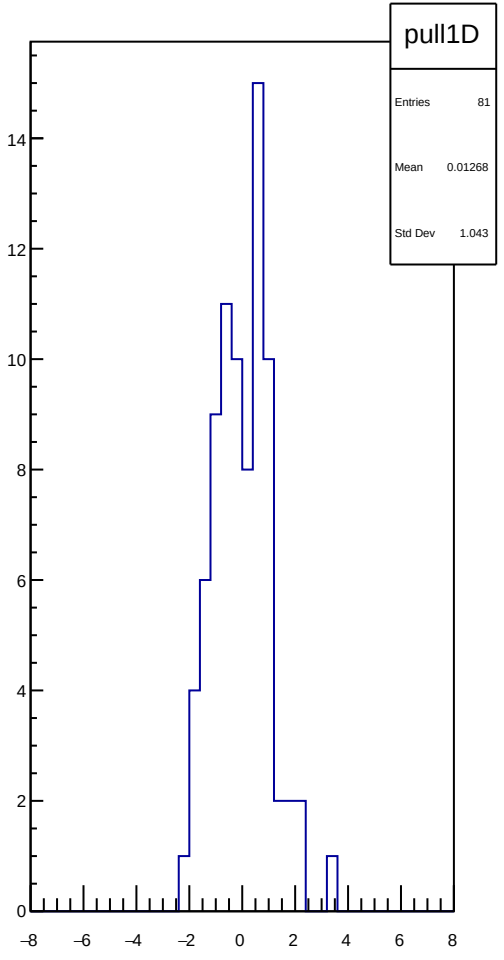

diff_bpm2i02Y_rms vs run
χ^2 / ndf 155.6 / 80
p0 898.2 ± 0.7217
920
910
900
890
880
870

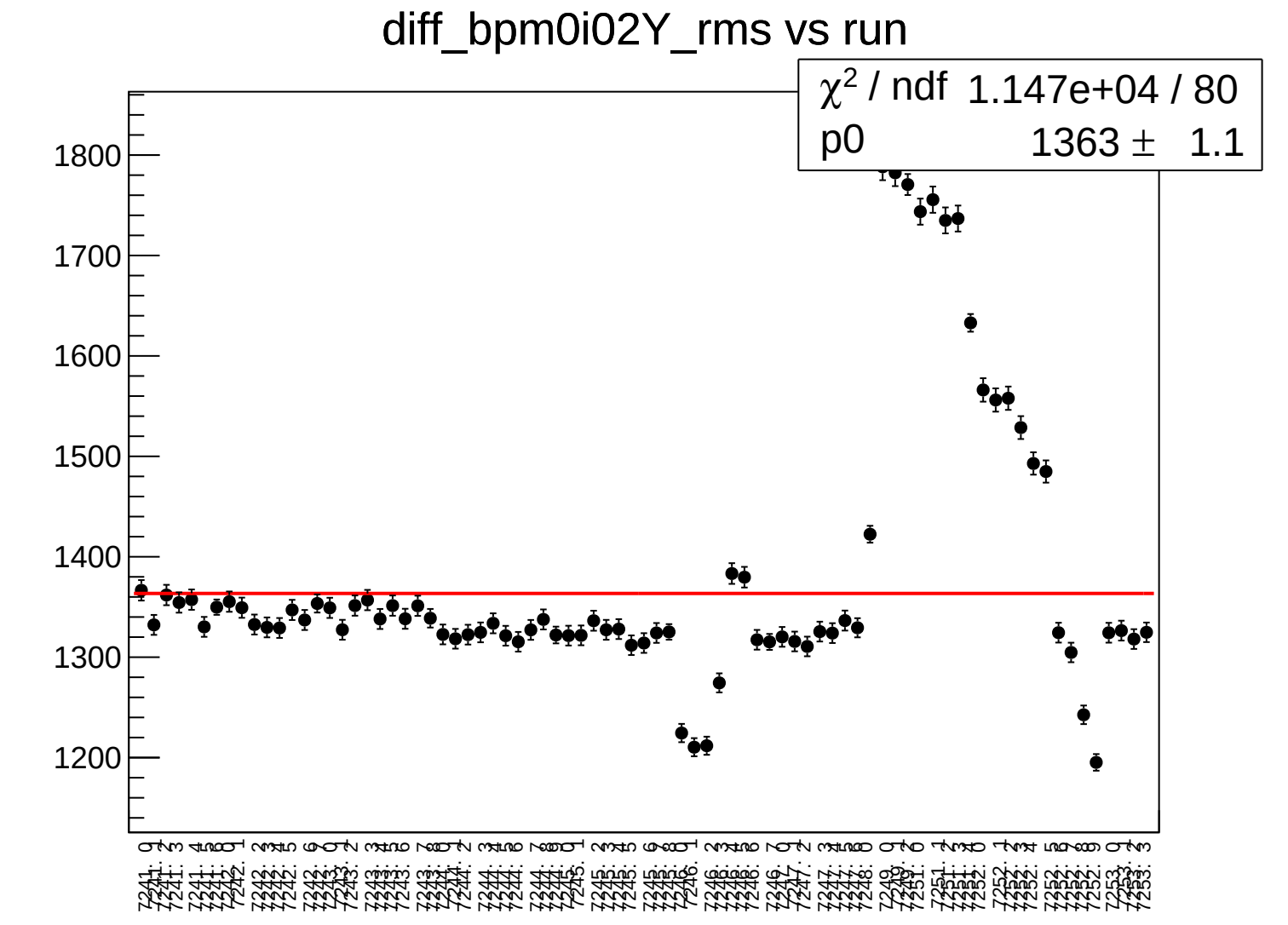

diff_bpm0i02X_mean vs run
χ^2 / ndf 91.36 / 80
p0 −17.91± 2.009
pull
Entries 81
Mean 423.1
Std Dev 0

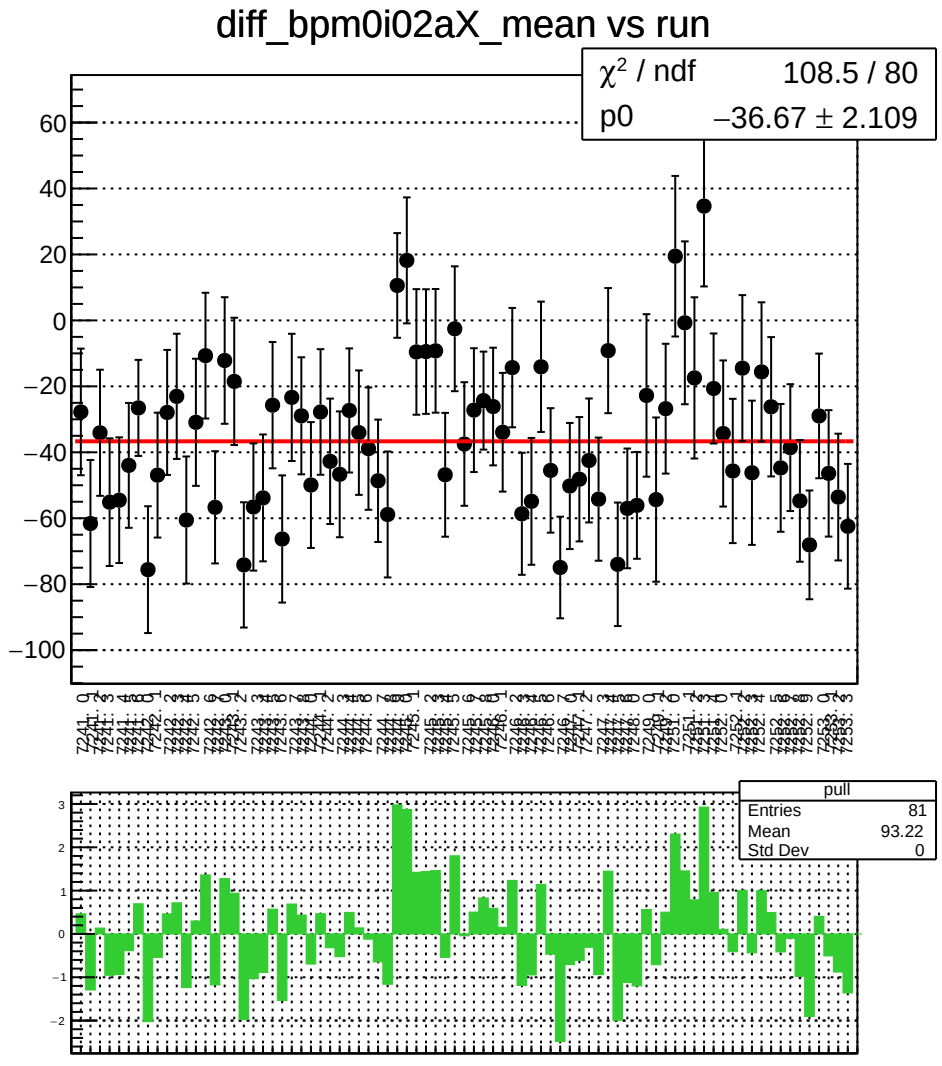

pull1D
Entries 81
Mean 0.006848
Std Dev 1.062

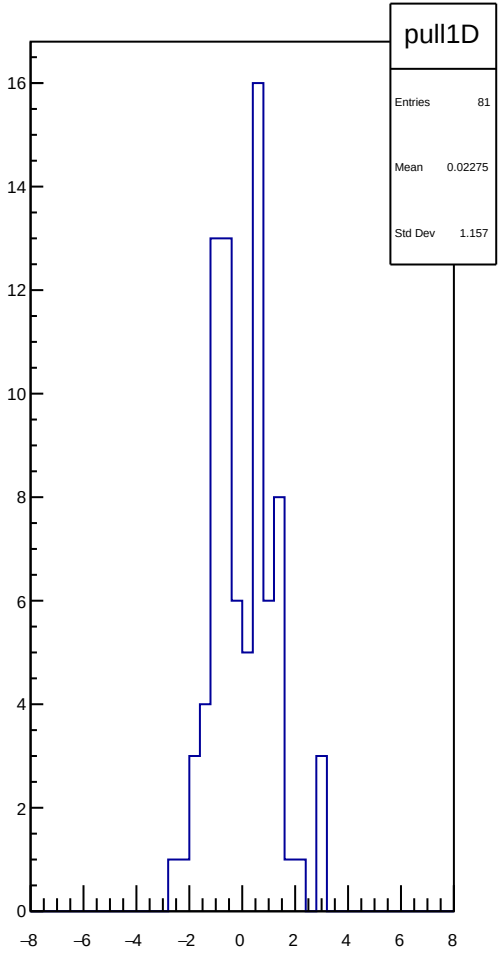

diff_bpm0i02X_rms vs run
χ² / ndf 3859 / 80
p0 1766 ± 1.421
2000
1900
1800
1700
1600
1500

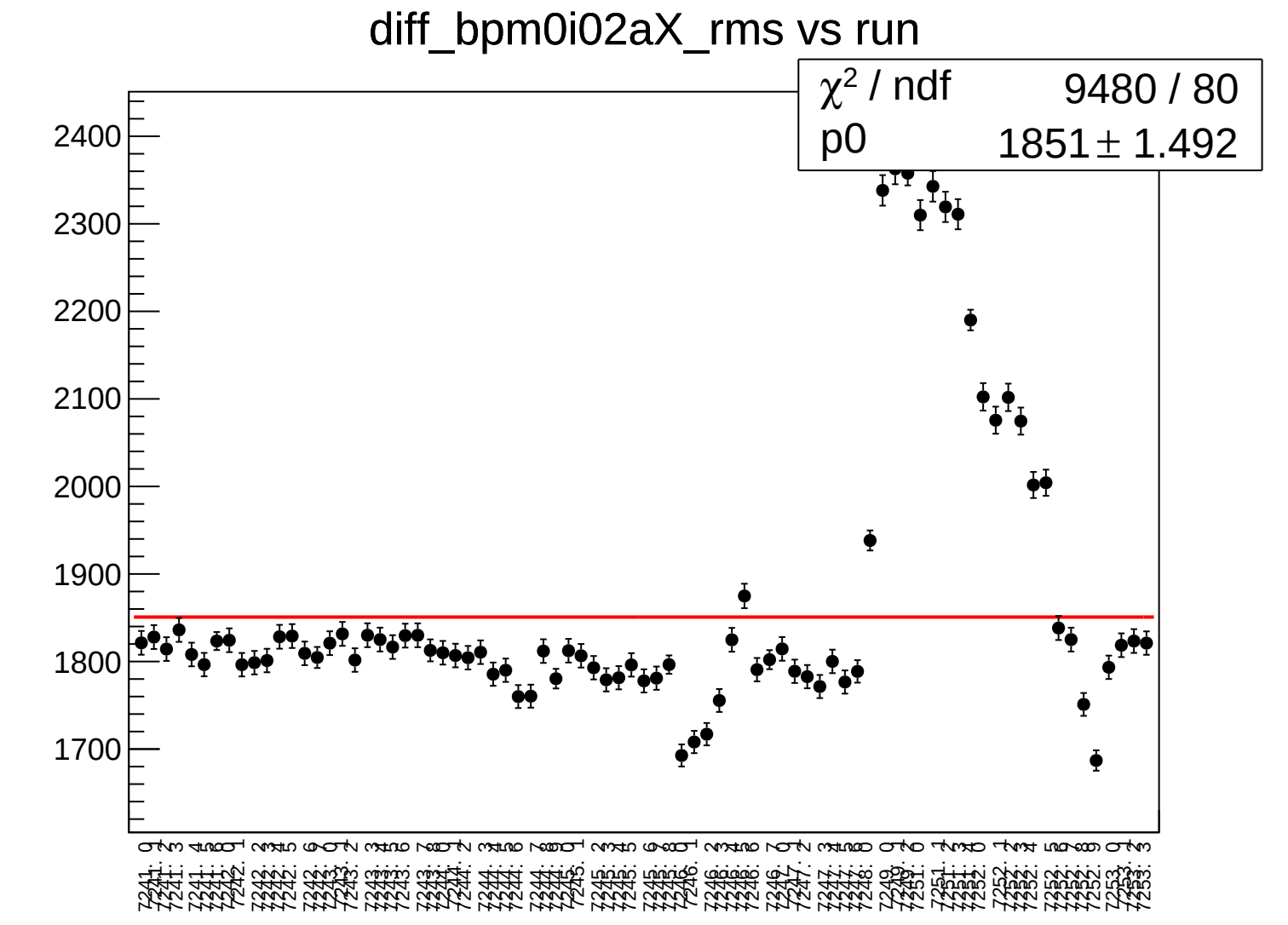

diff_bpm0i02Y_mean vs run
χ² / ndf 88.14 / 80
p0 64.19 ± 1.555
pull
Entries 81
Mean 249.1
Std Dev 0

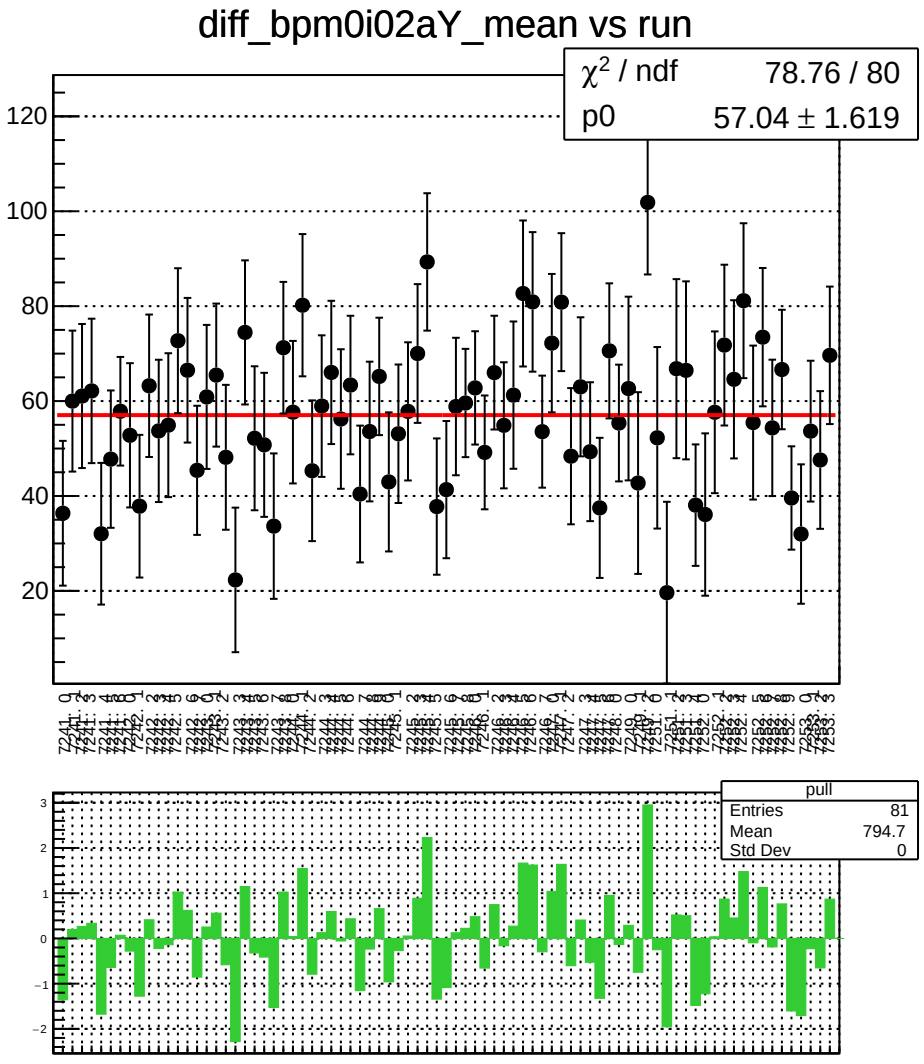

pull1D
Entries 81
Mean 0.01268
Std Dev 1.043

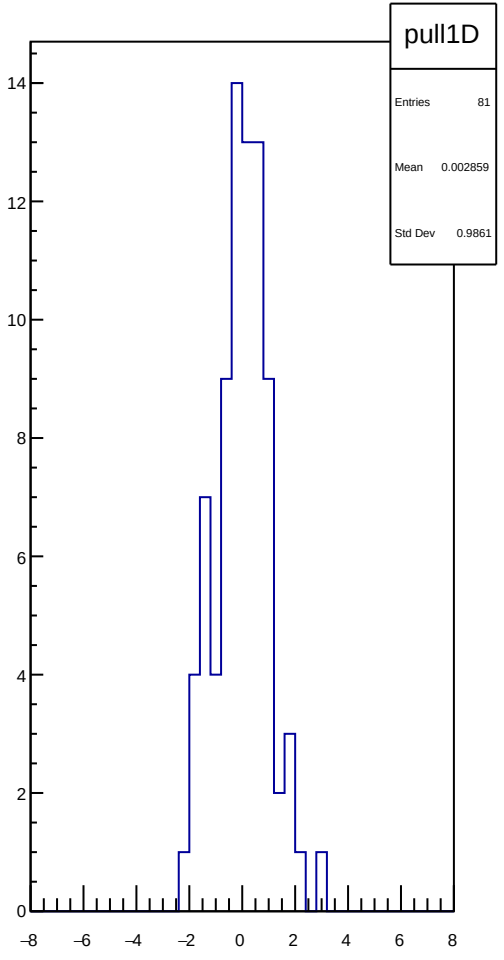

diff_bpm0i02Y_rms vs run
χ² / ndf 1.147e+04 / 80
p0 1363 ± 1.1
1800
1700
1600
1500
1400
1300
1200

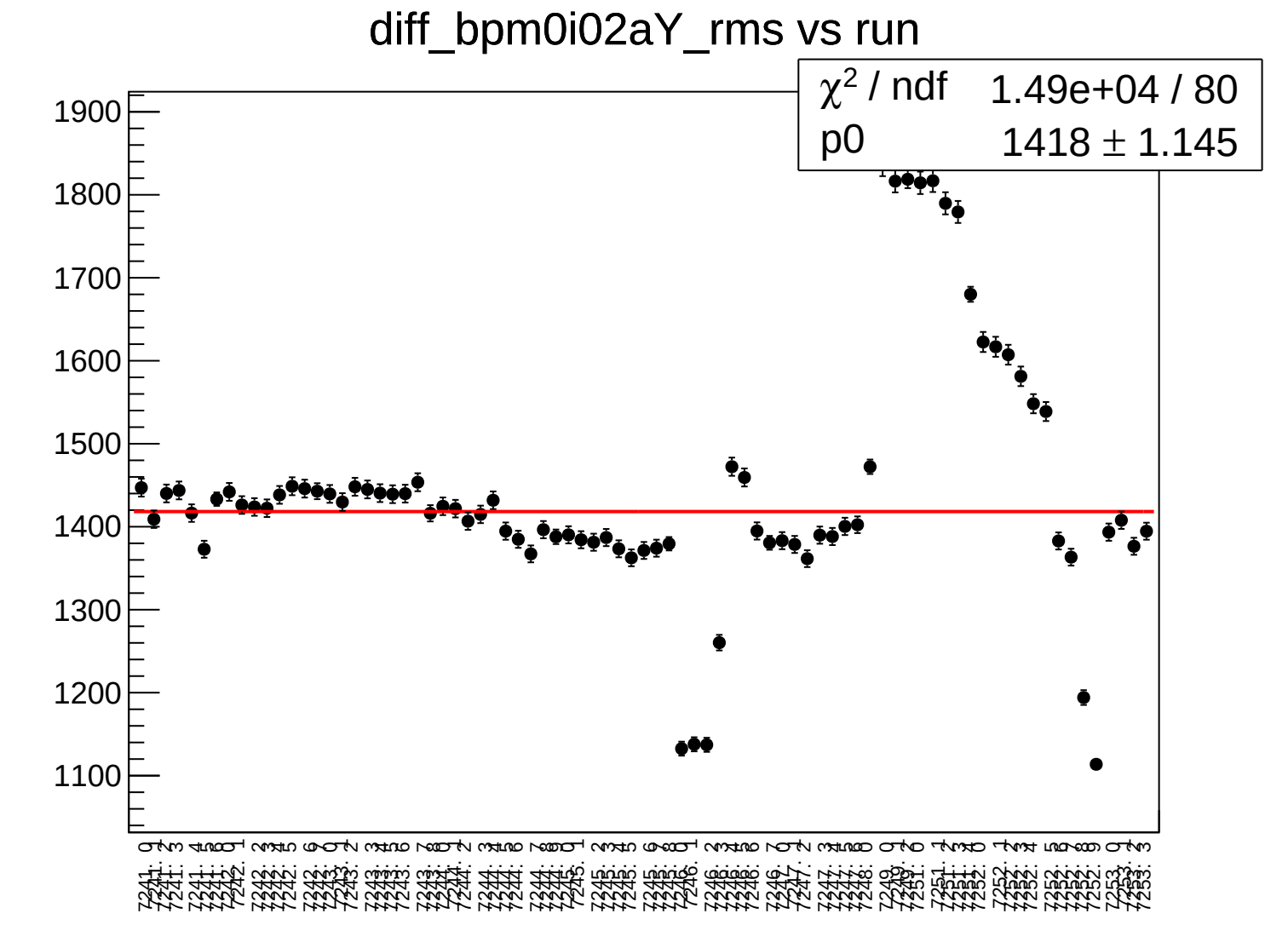

diff_bpm0i02aX_mean vs run
χ² / ndf 108.5 / 80
p0 −36.67 ± 2.109
pull
Entries 81
Mean 93.22
Std Dev 0

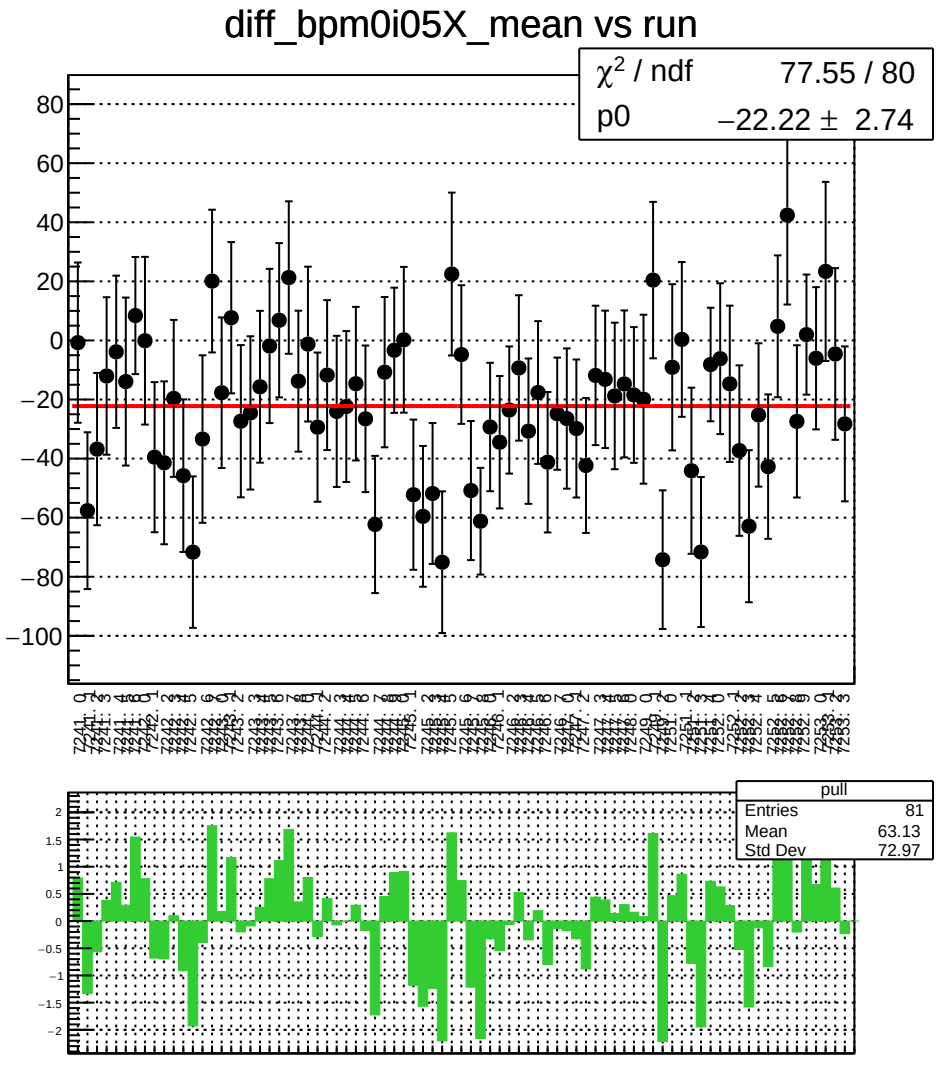

pull1D
Entries 81
Mean 0.02275
Std Dev 1.157

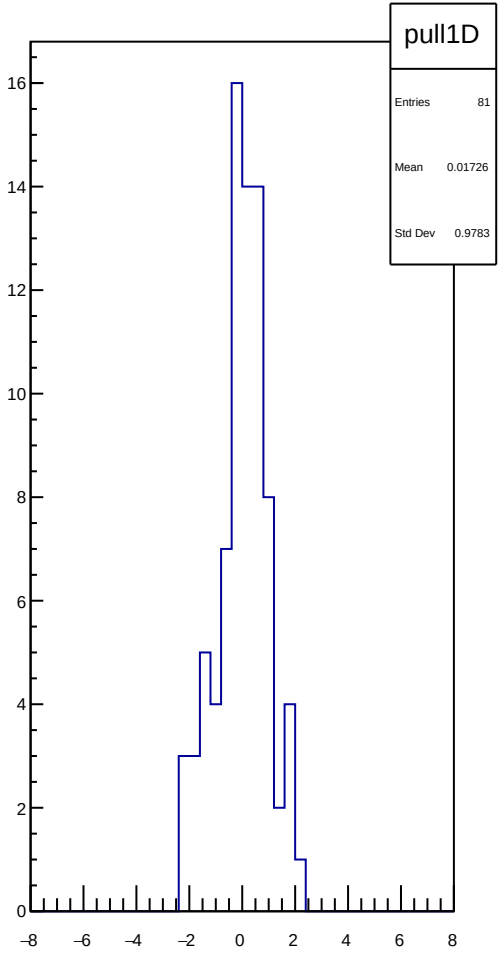

diff_bpm0i02aX_rms vs run
χ² / ndf 9480 / 80
p0 1851 ± 1.492
2400
2300
2200
2100
2000
1900
1800
1700

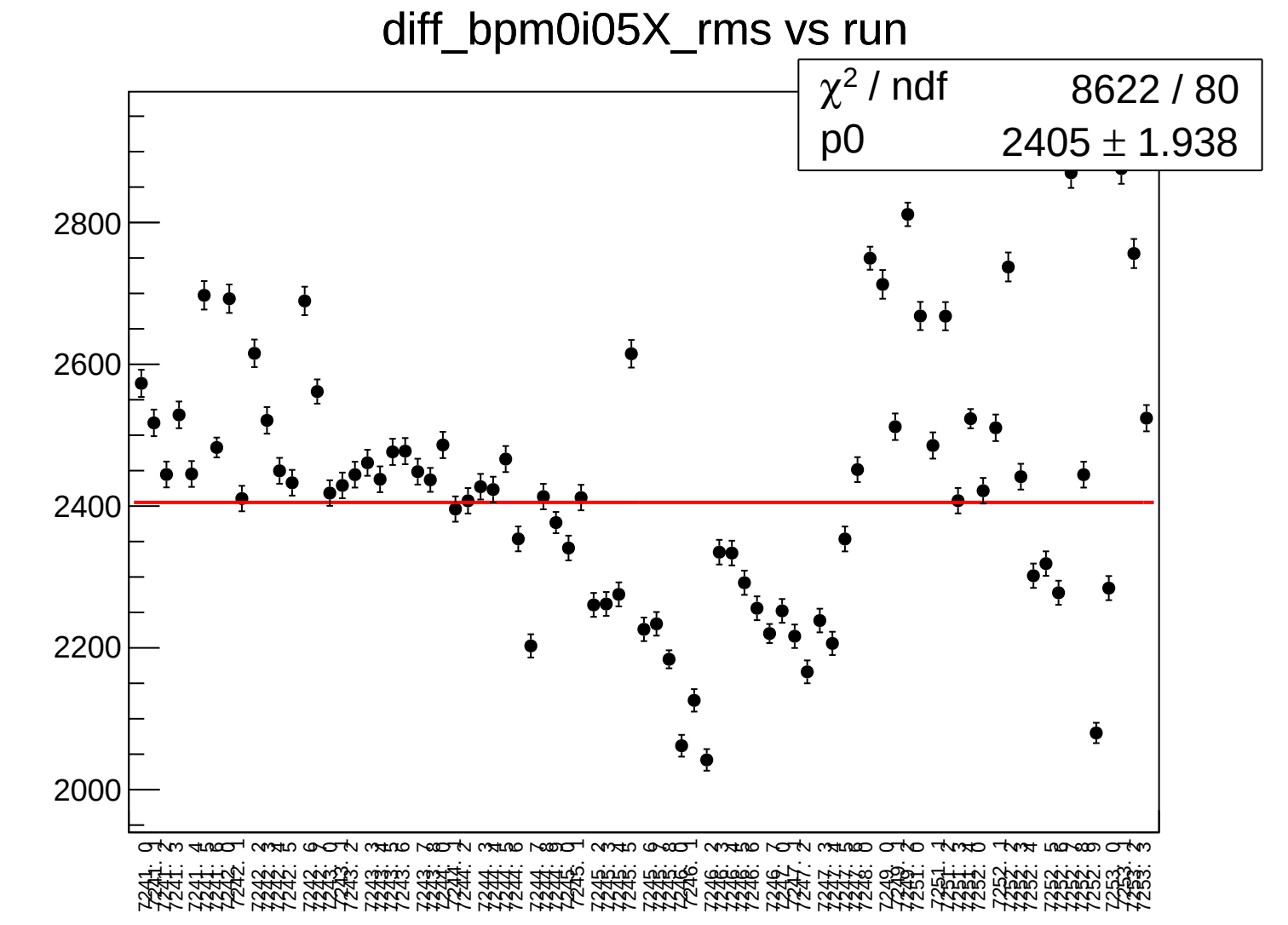

diff_bpm0i02aY_mean vs run
χ² / ndf 78.76 / 80
p0 57.04 ± 1.619
pull
Entries 81
Mean 794.7
Std Dev 0

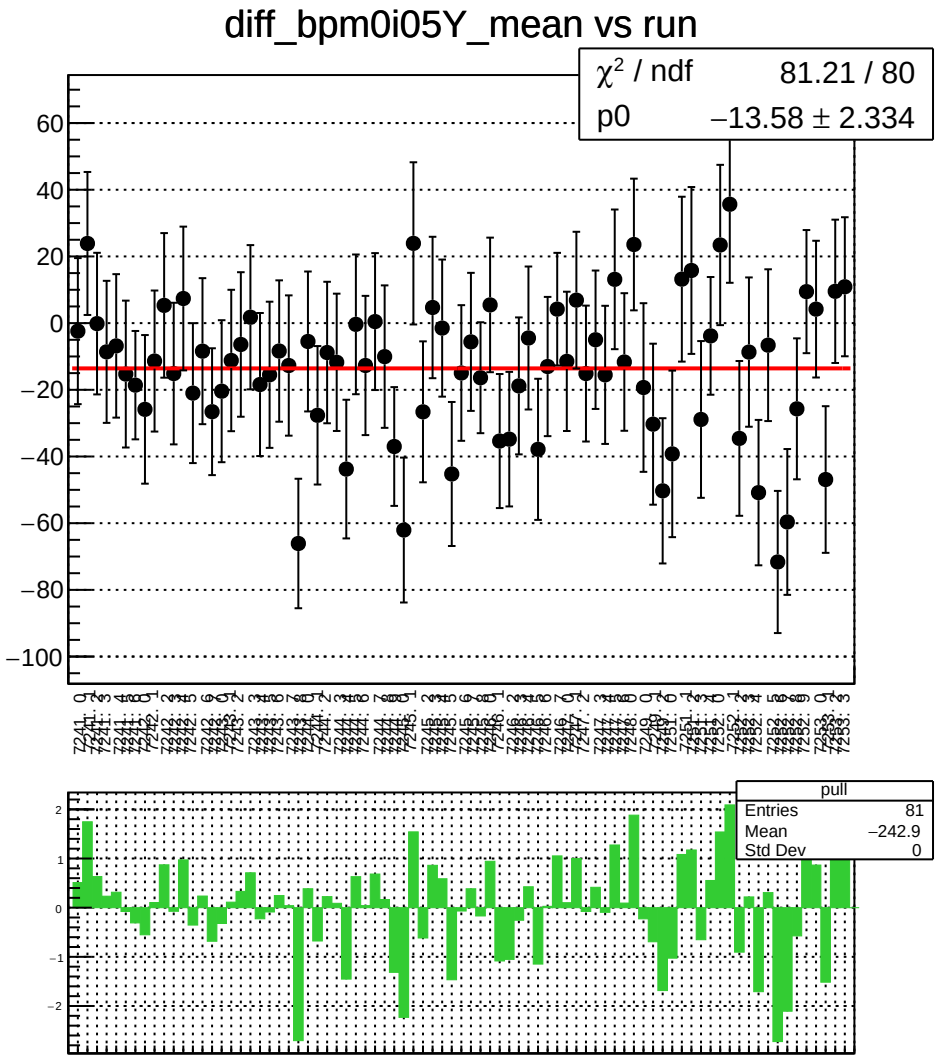

pull1D
Entries 81
Mean 0.002859
Std Dev 0.9861

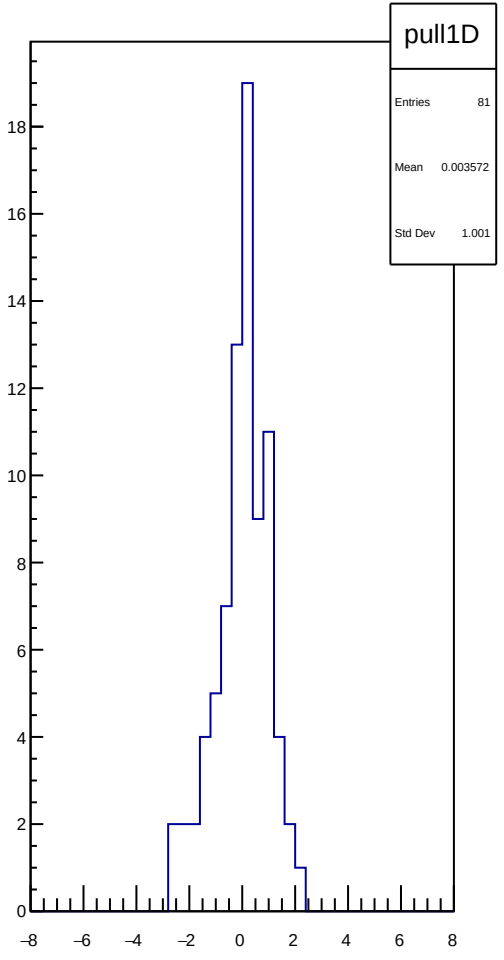

diff_bpm0i02aY_rms vs run
χ² / ndf 1.49e+04 / 80
p0 1418 ± 1.145
1900
1800
1700
1600
1500
1400
1300
1200
1100

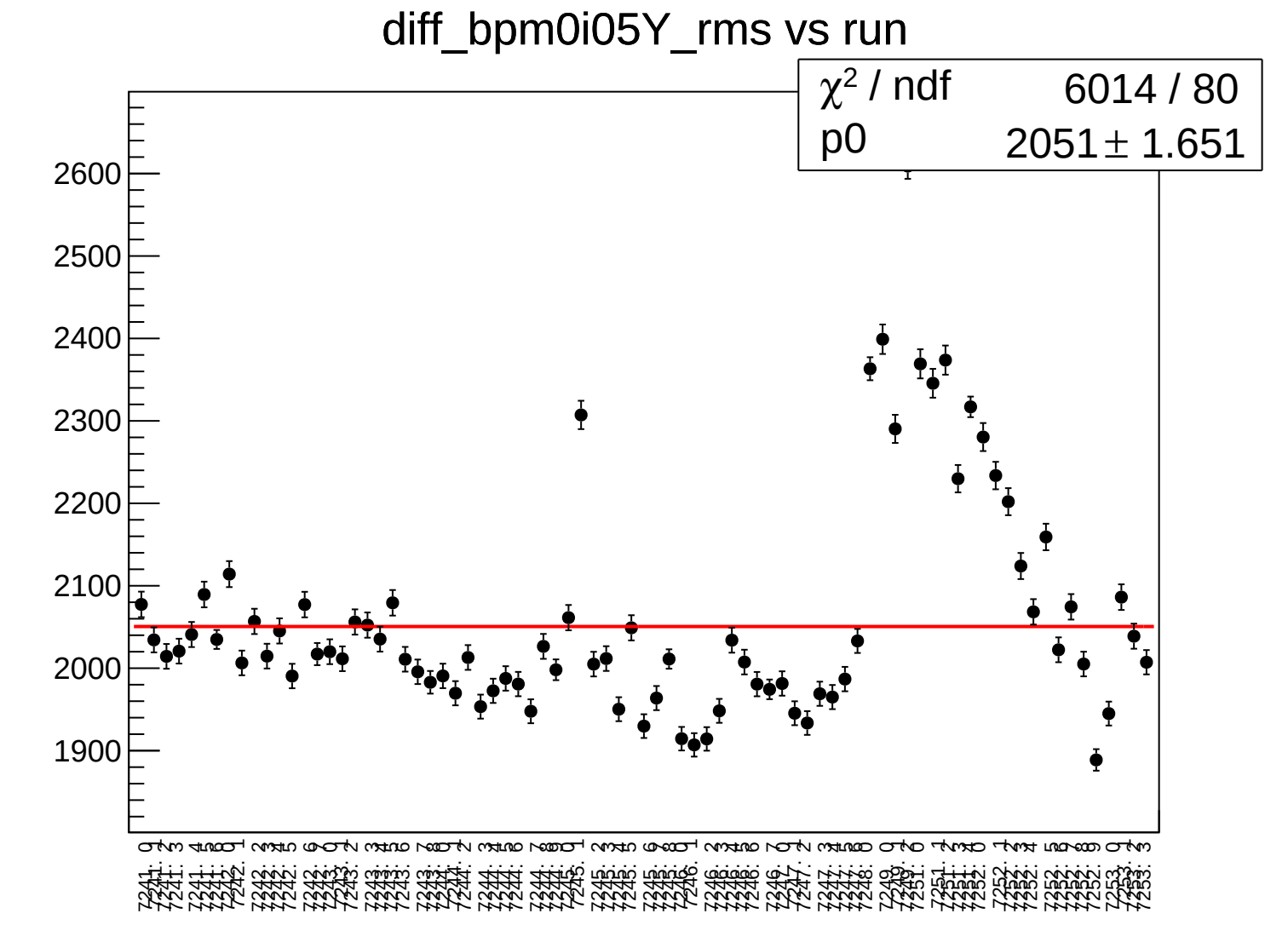

diff_bpm0i05X_mean vs run
χ² / ndf 77.55 / 80
p0 −22.22 ± 2.74
pull
Entries 81
Mean 63.13
Std Dev 72.97

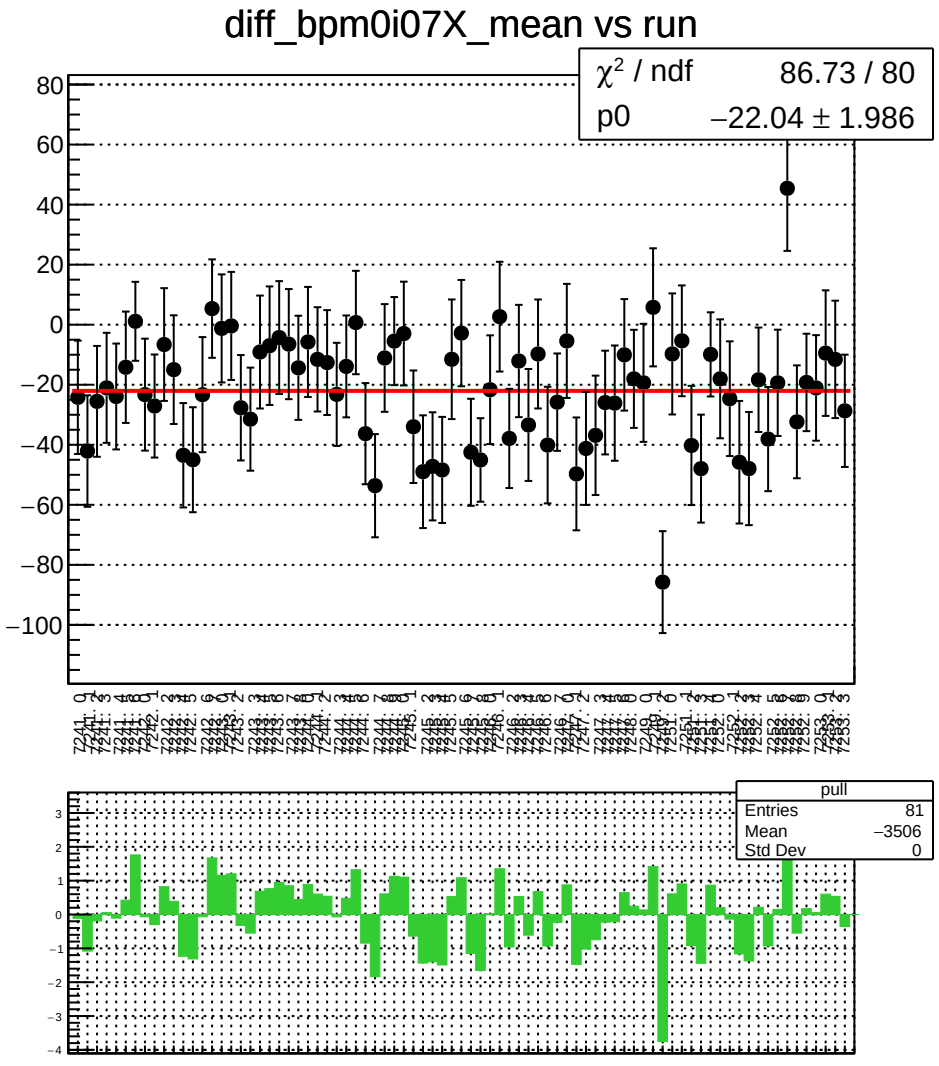

pull1D
Entries 81
Mean 0.01726
Std Dev 0.9783

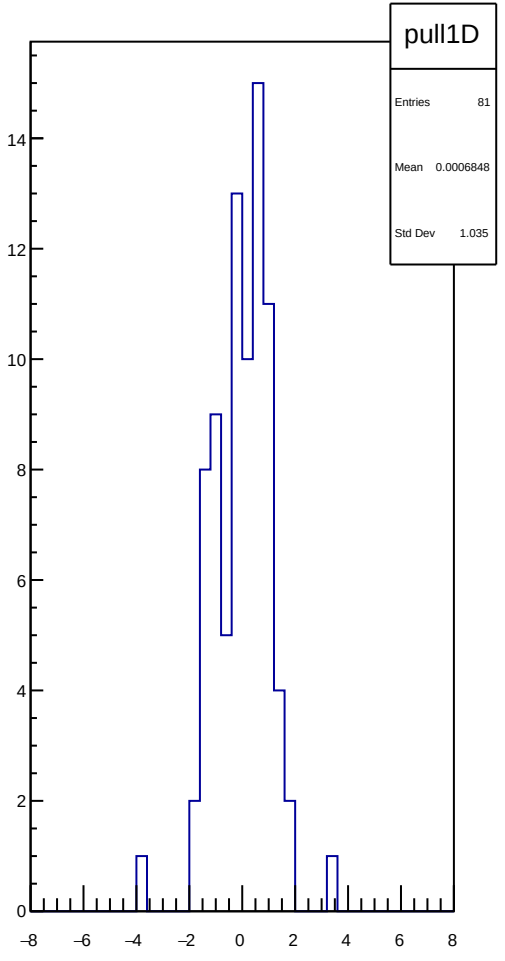

diff_bpm0i05X_rms vs run
χ² / ndf 8622 / 80
p0 2405 ± 1.938
2800
2600
2400
2200
2000

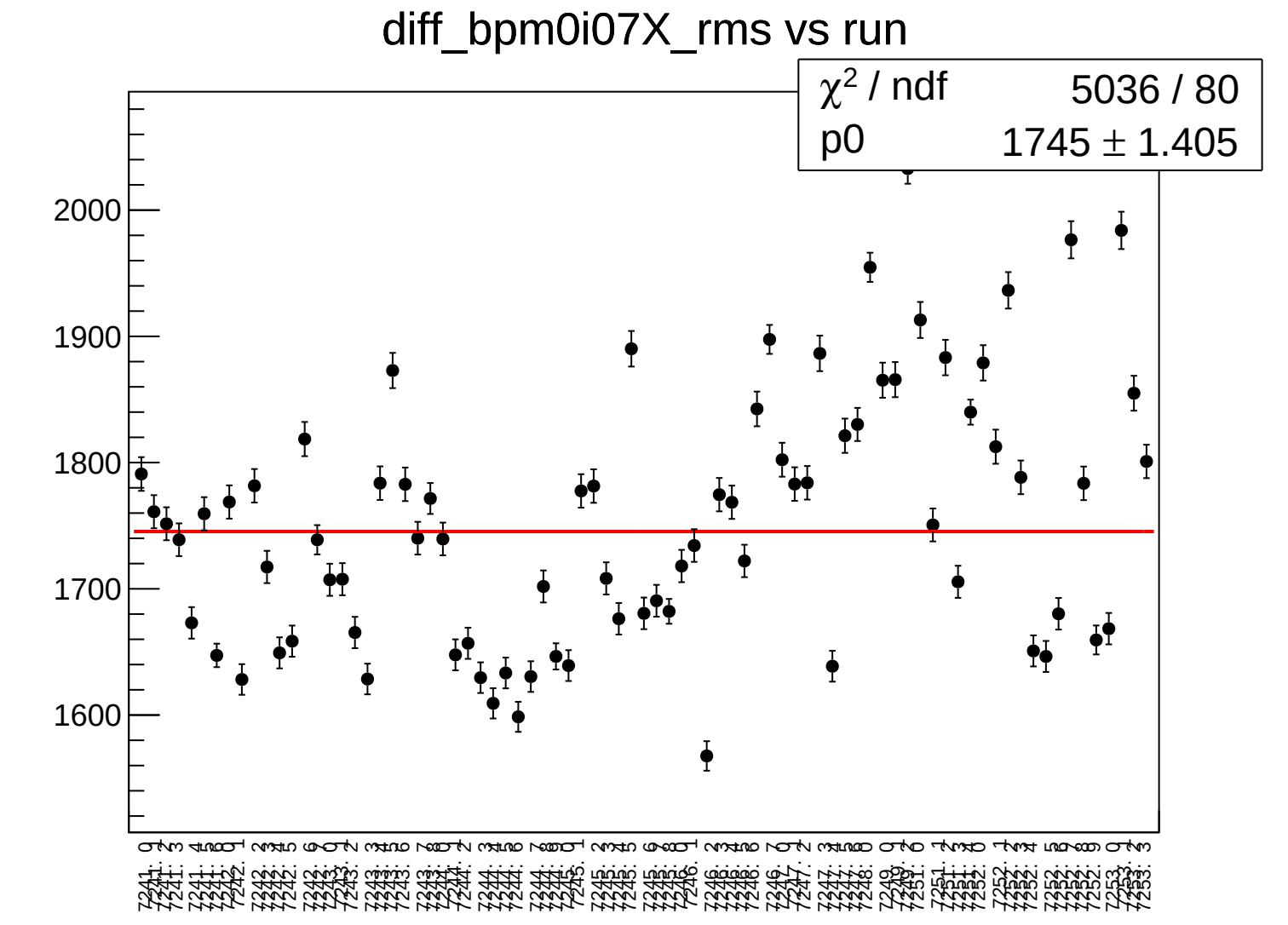

diff_bpm0i05Y_mean vs run
χ^2 / ndf 81.21 / 80
p0 −13.58 ± 2.334
pull
Entries 81
Mean −242.9
Std Dev 0

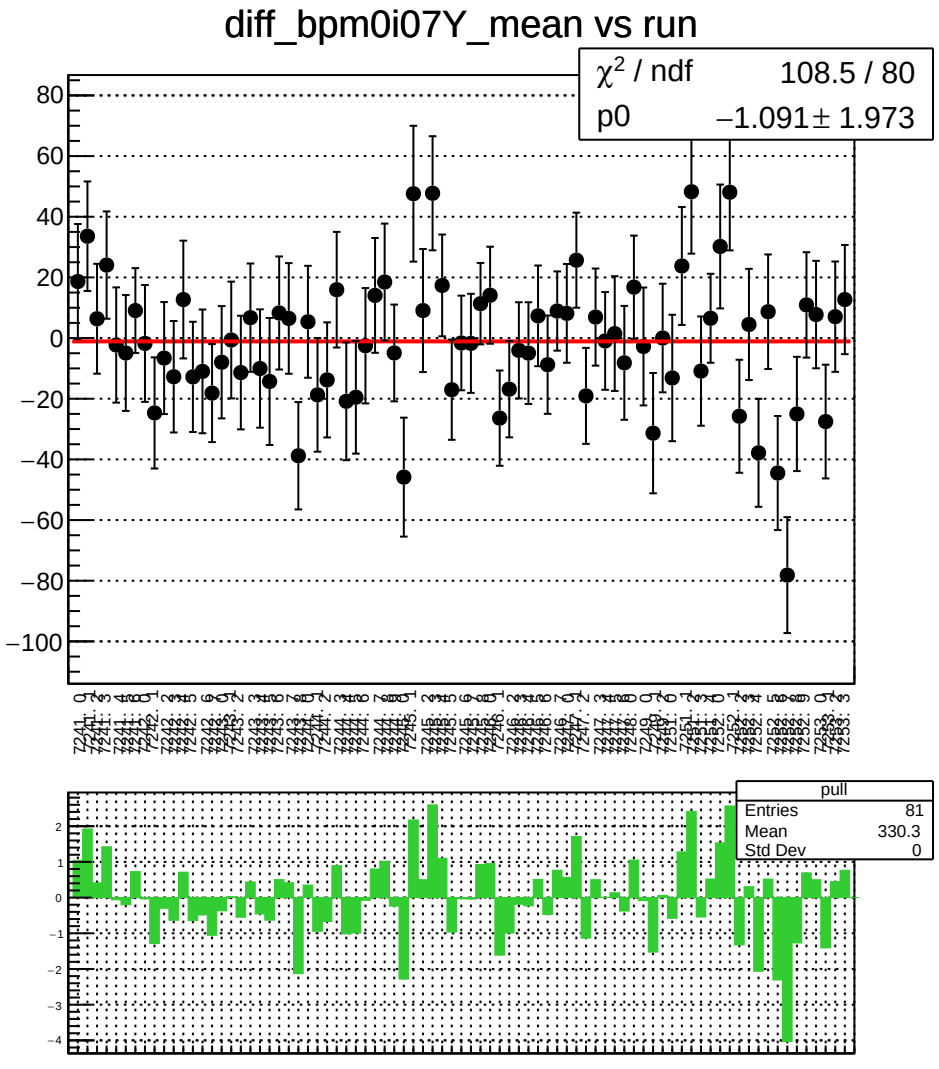

pull1D
Entries 81
Mean 0.003572
Std Dev 1.001

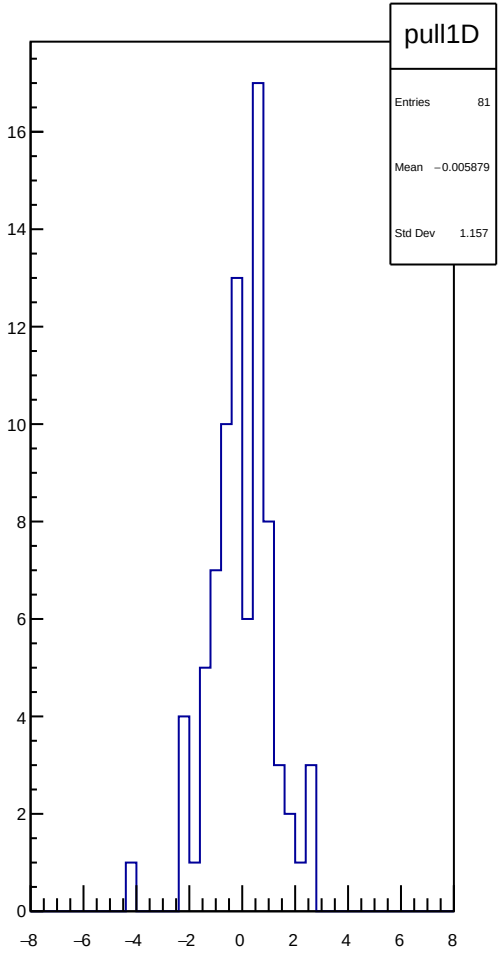

diff_bpm0i05Y_rms vs run
χ² / ndf 6014 / 80
p0 2051 ± 1.651
2600
2500
2400
2300
2200
2100
2000
1900

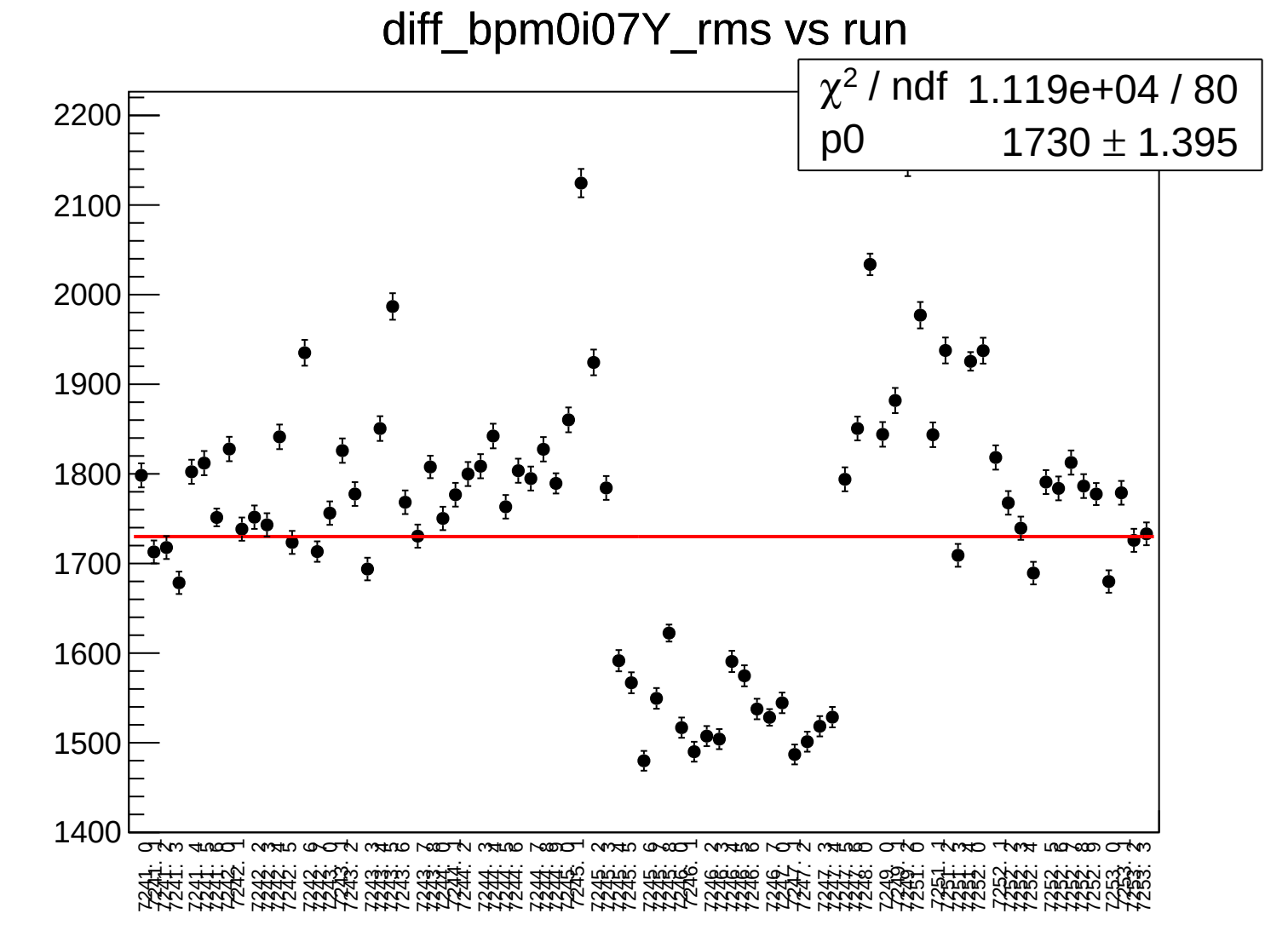

diff_bpm0i07X_mean vs run
χ² / ndf 86.73 / 80
p0 −22.04 ± 1.986
pull
Entries 81
Mean −3506
Std Dev 0

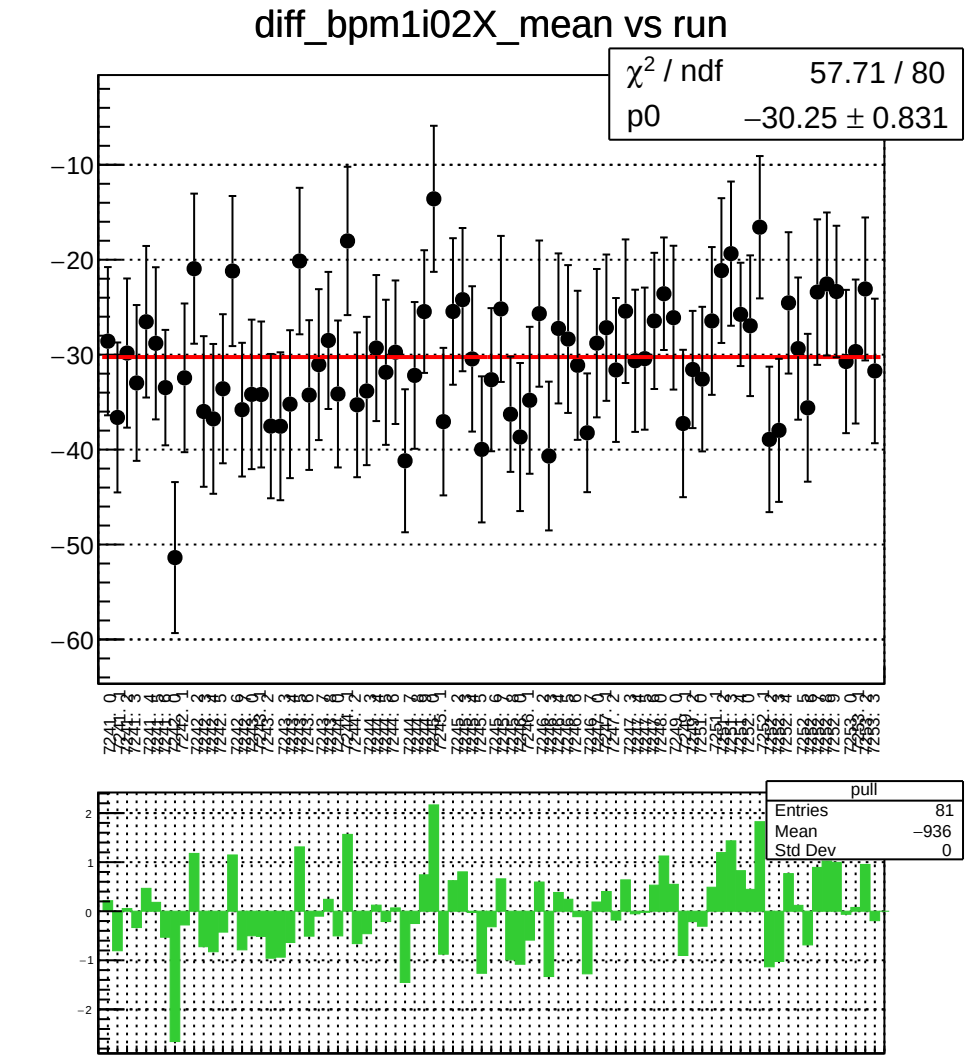

pull1D
Entries 81
Mean 0.0006848
Std Dev 1.035

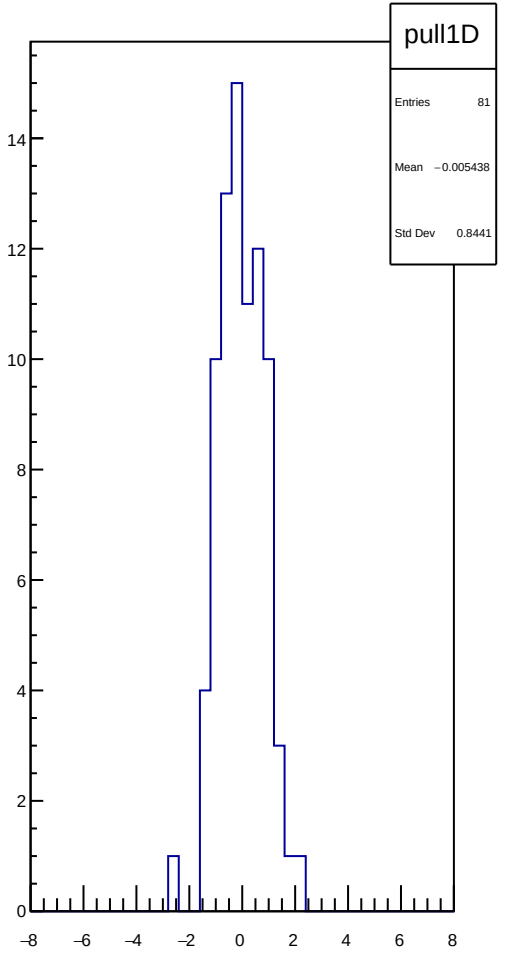

diff_bpm0i07X_rms vs run
χ^2 / ndf 5036 / 80
p0 1745 ± 1.405
2000
1900
1800
1700
1600

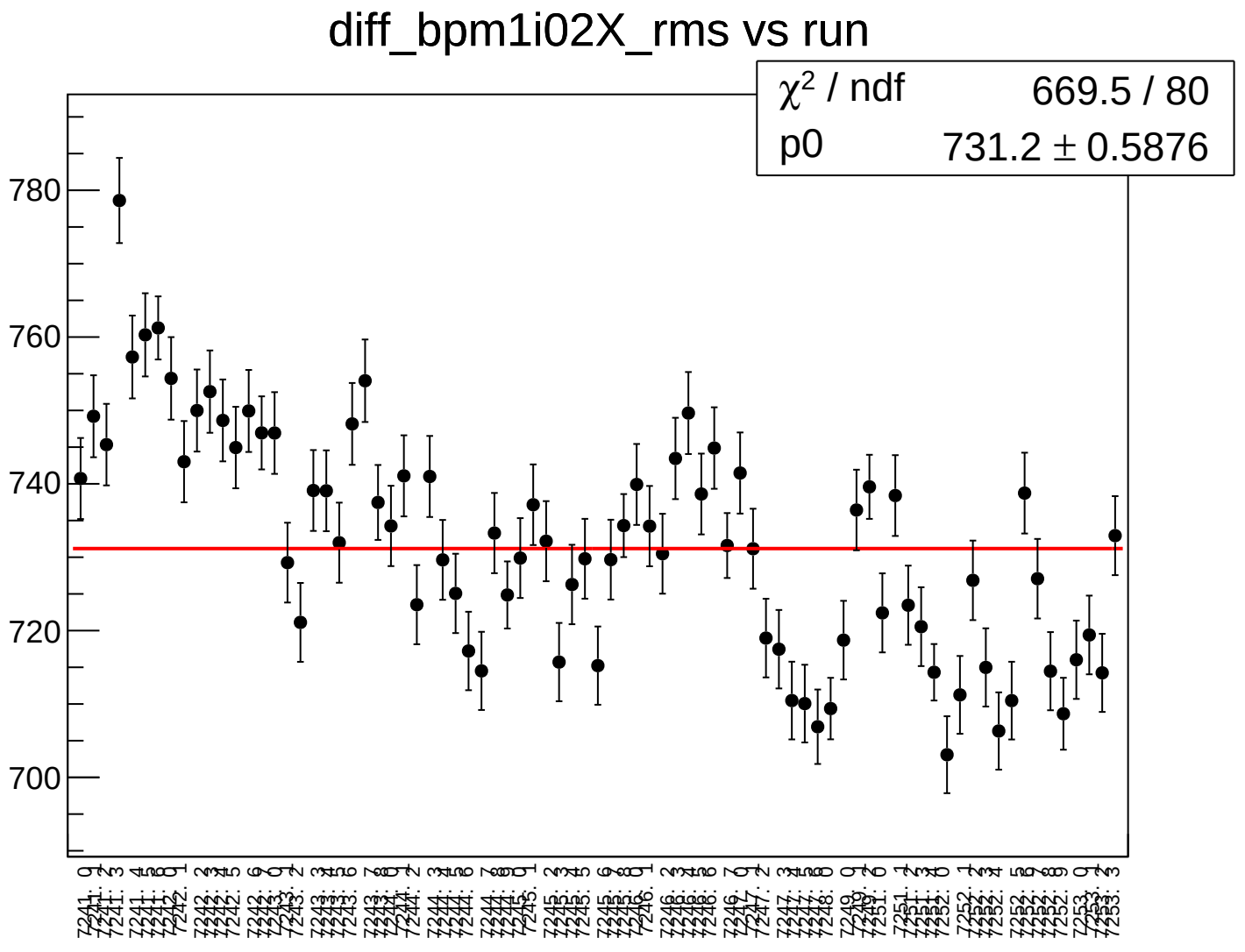

diff_bpm0i07Y_mean vs run
χ² / ndf 108.5 / 80
p0 −1.091 ± 1.973
pull
Entries 81
Mean 330.3
Std Dev 0

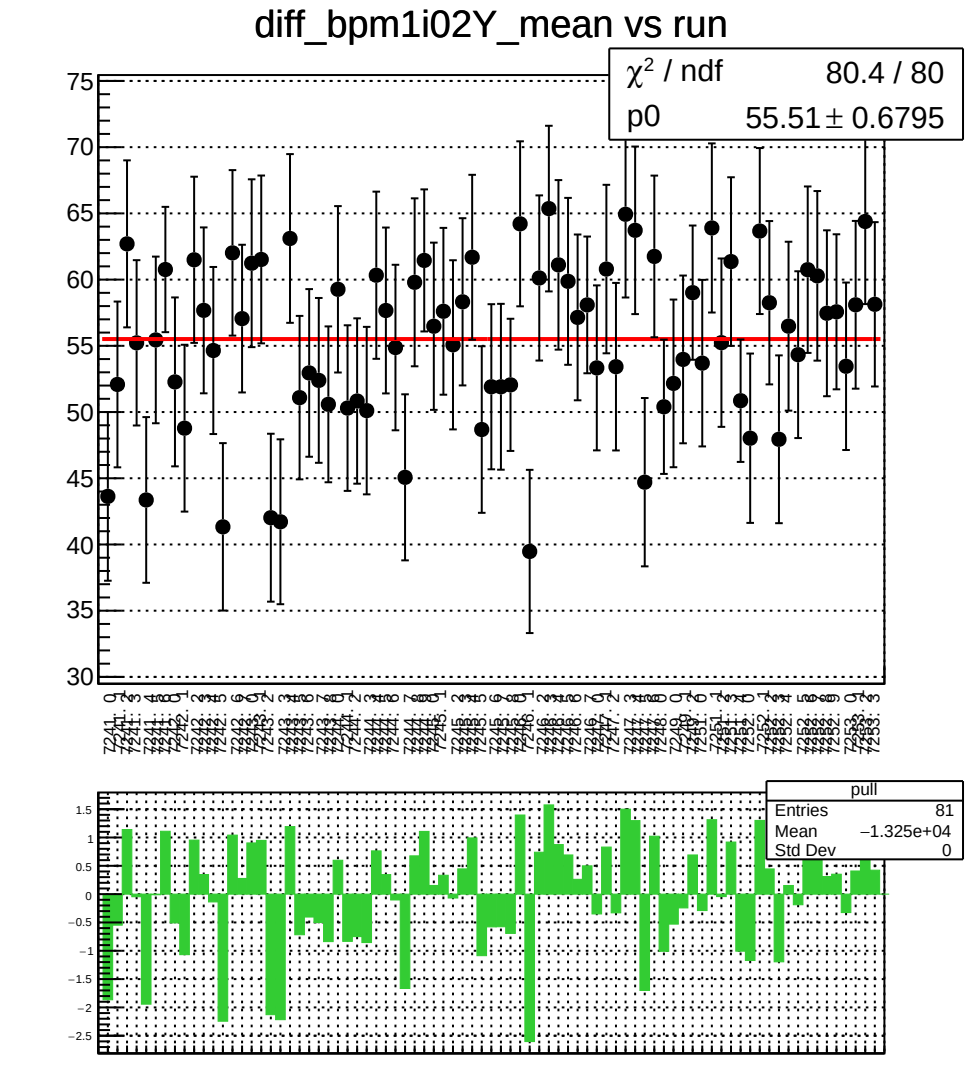

pull1D
Entries 81
Mean −0.005879
Std Dev 1.157

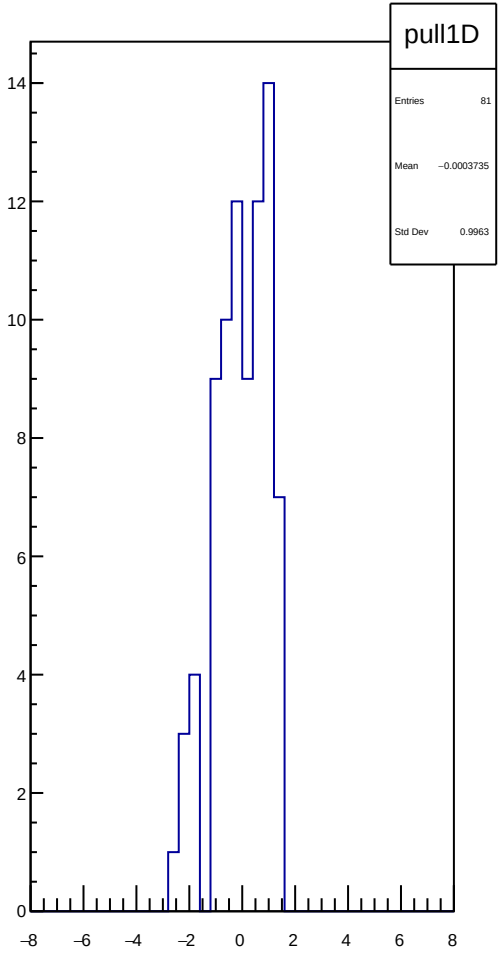

diff_bpm0i07Y_rms vs run
χ² / ndf 1.119e+04 / 80
p0 1730 ± 1.395
2200
2100
2000
1900
1800
1700
1600
1500
1400

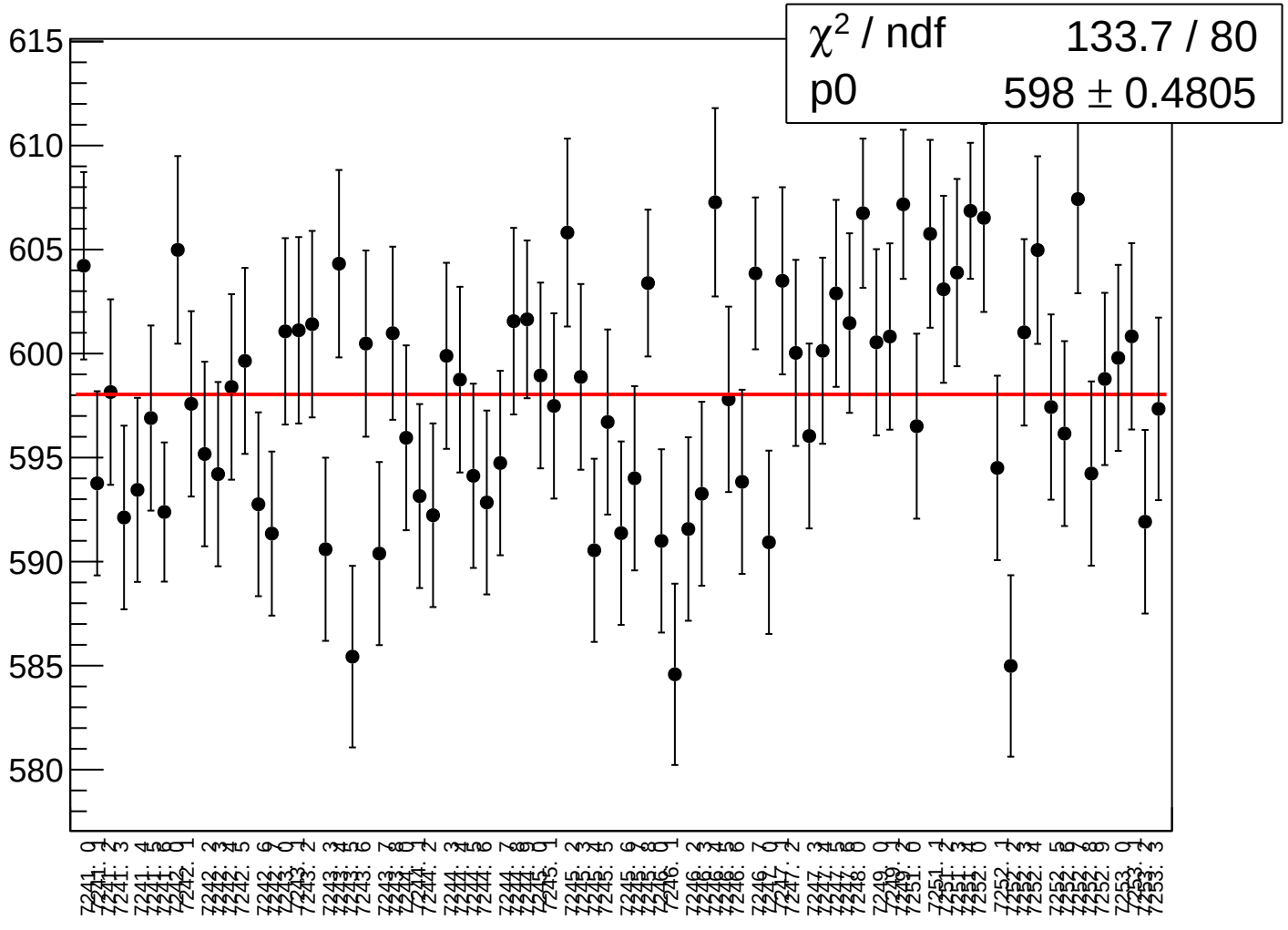

diff_bpm1i02X_mean vs run
χ^2 / ndf 57.71 / 80
p0 −30.25 ± 0.831
pull
Entries 81
Mean −936
Std Dev 0

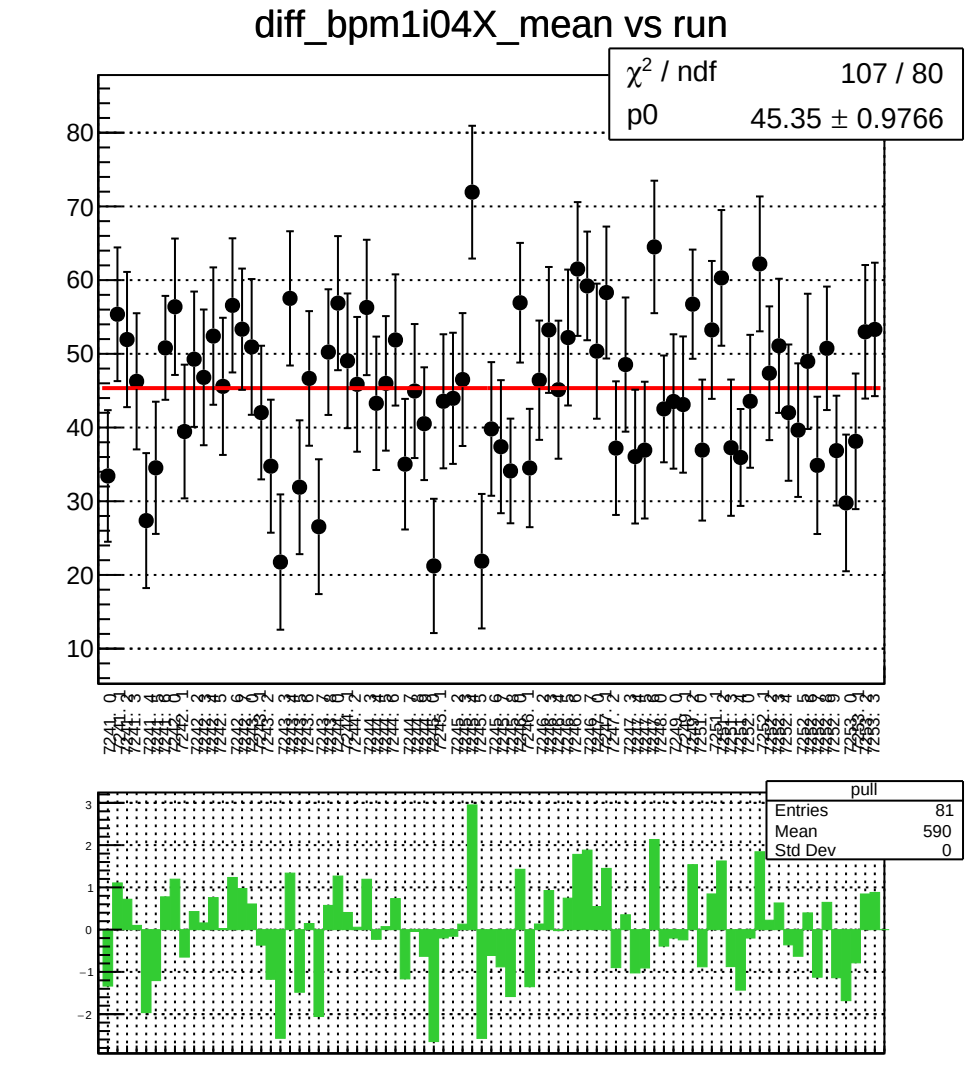

pull1D
Entries 81
Mean −0.005438
Std Dev 0.8441

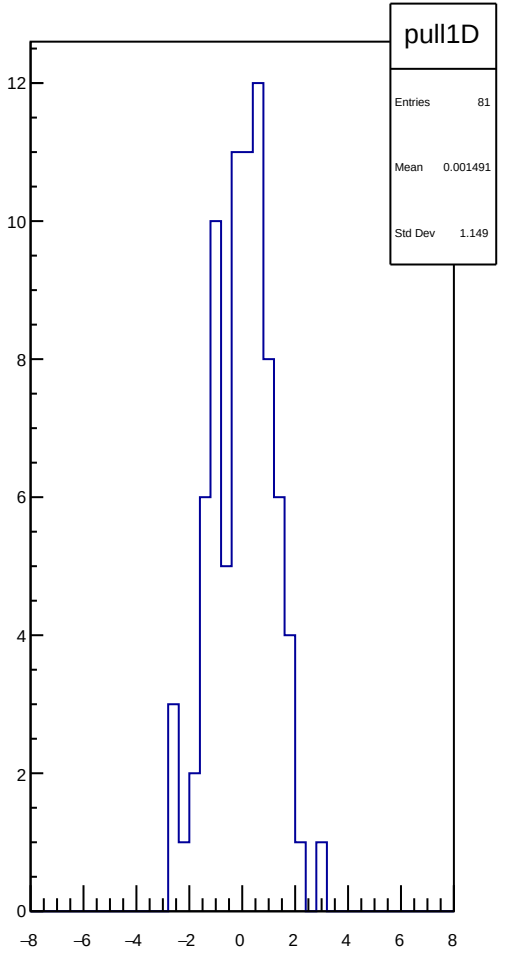

diff_bpm1i02X_rms vs run
χ² / ndf 669.5 / 80
p0 731.2 ± 0.5876
780
760
740
720
700

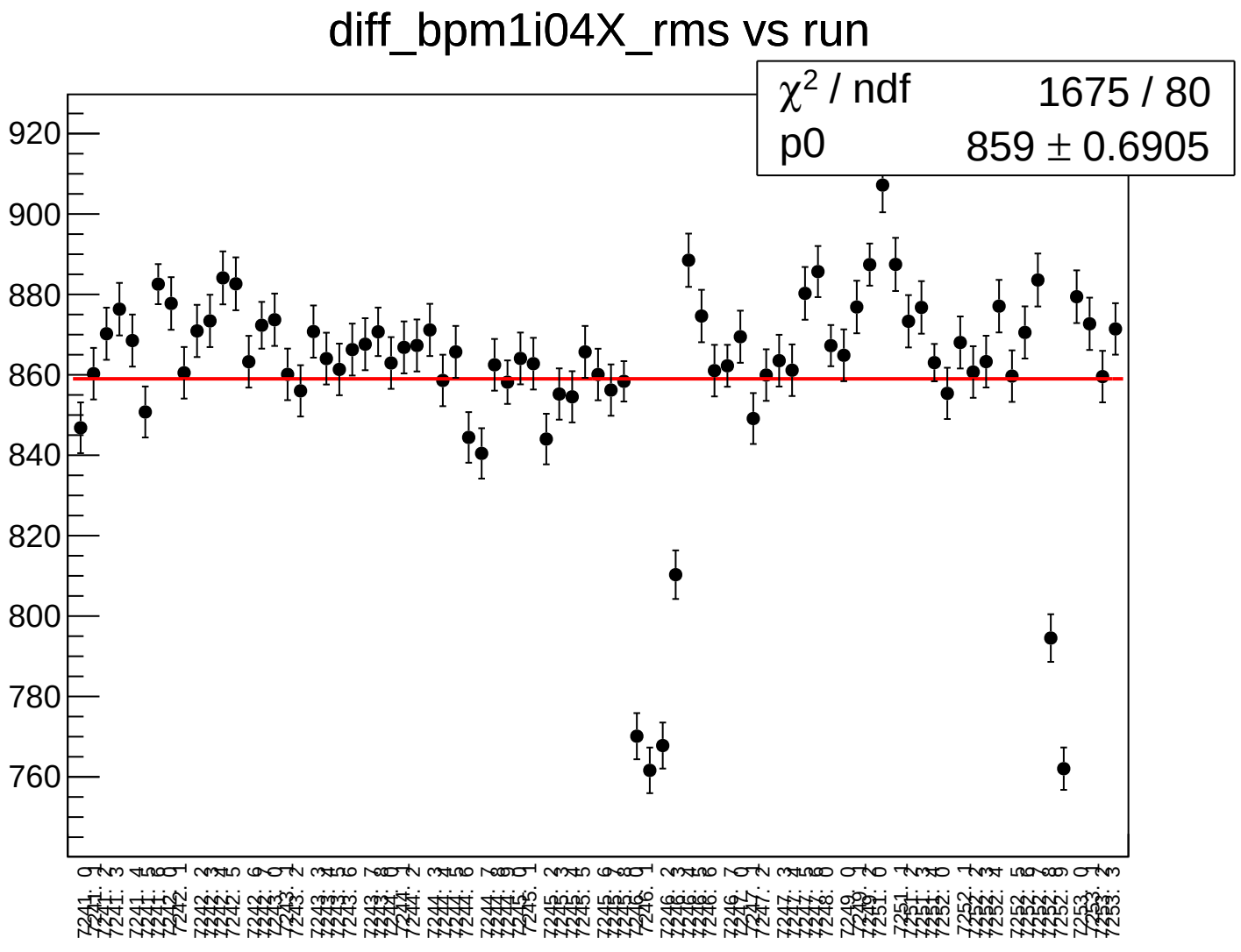

diff_bpm1i02Y_mean vs run
χ² / ndf 80.4 / 80
p0 55.51 ± 0.6795
pull
Entries 81
Mean −1.325e+04
Std Dev 0

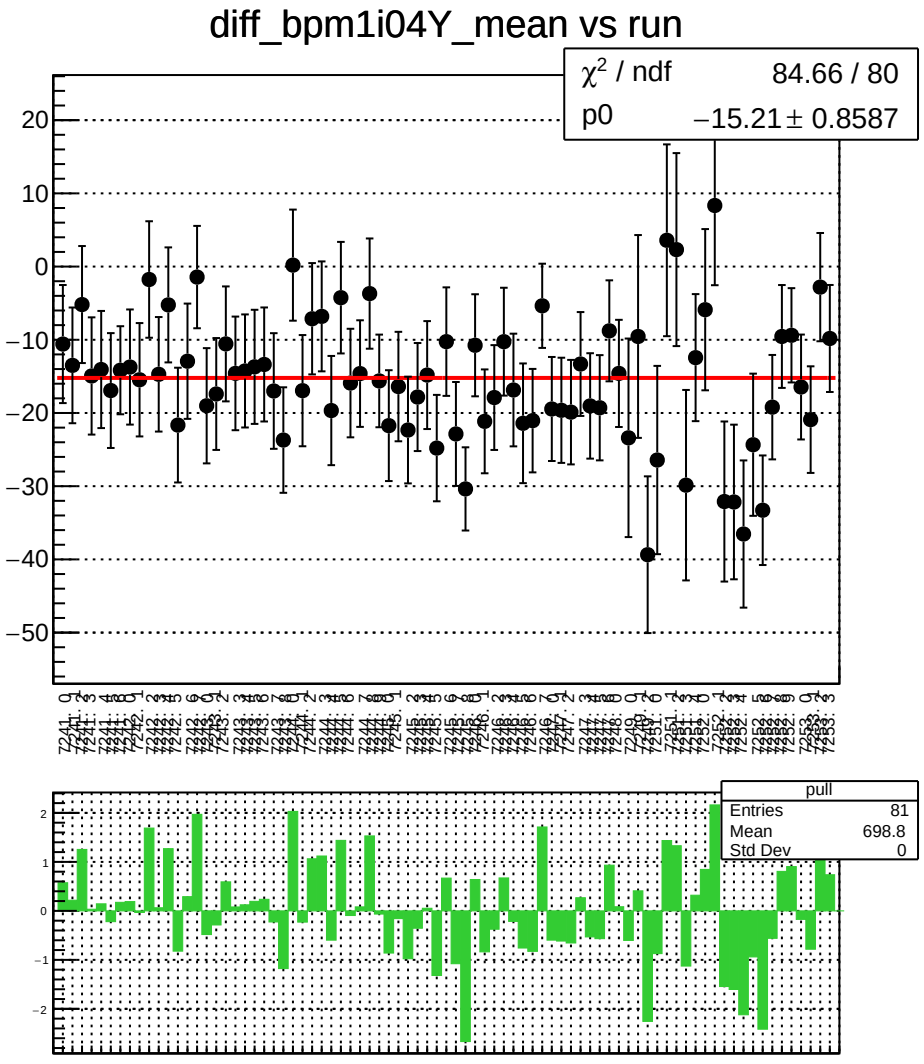

pull1D
Entries 81
Mean −0.0003735
Std Dev 0.9963

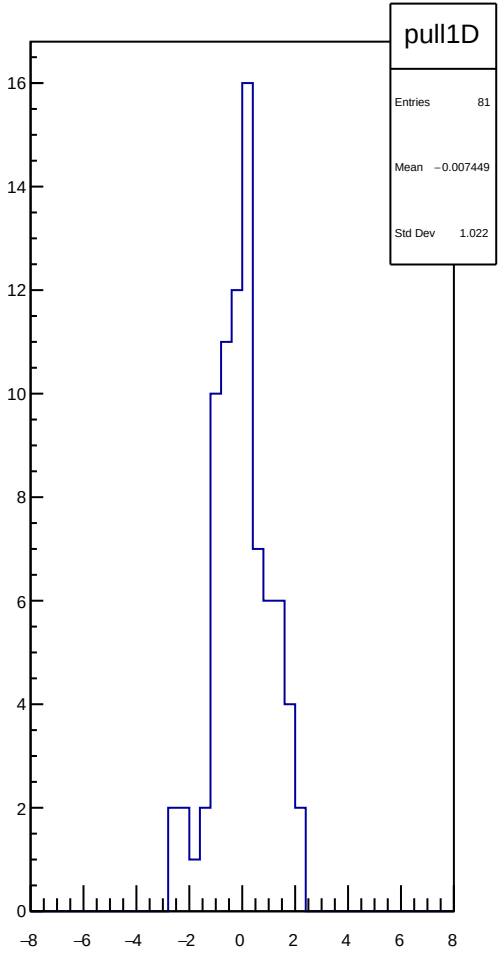

diff_bpm1i02Y_rms vs run
χ² / ndf 133.7 / 80
p0 598 ± 0.4805
615
610
605
600
595
590
585
580

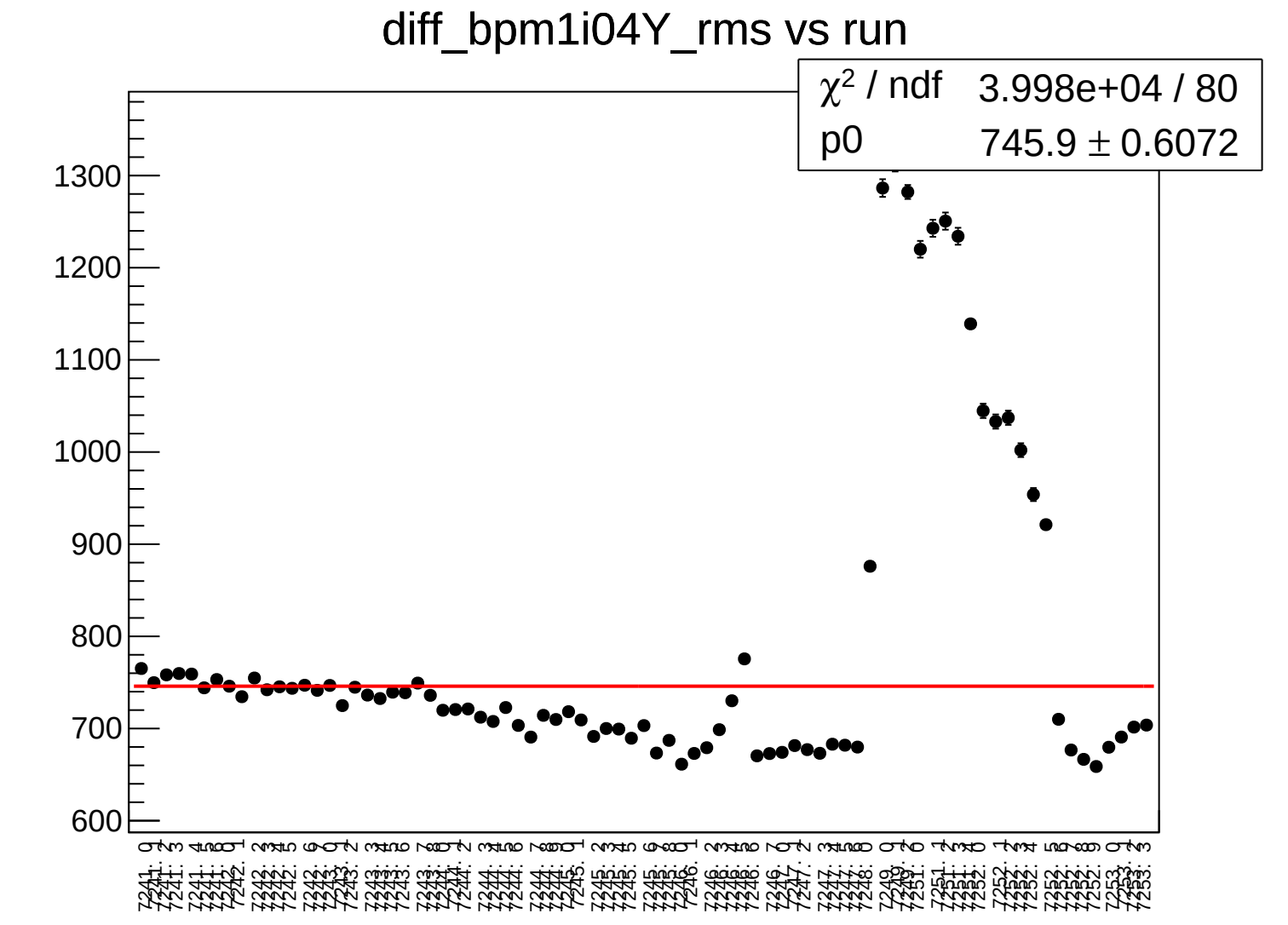

diff_bpm1i04X_mean vs run
χ² / ndf 107 / 80
p0 45.35 ± 0.9766
pull
Entries 81
Mean 590
Std Dev 0

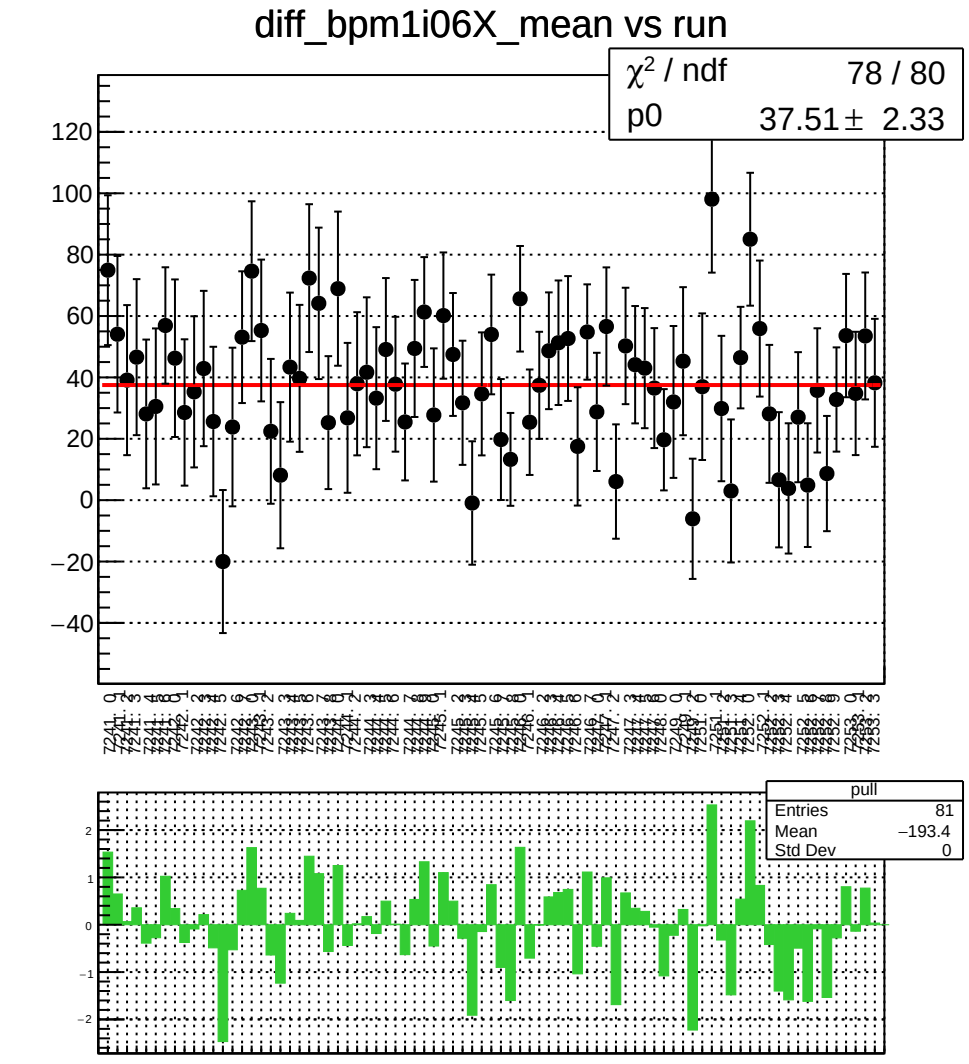

pull1D
Entries 81
Mean 0.001491
Std Dev 1.149

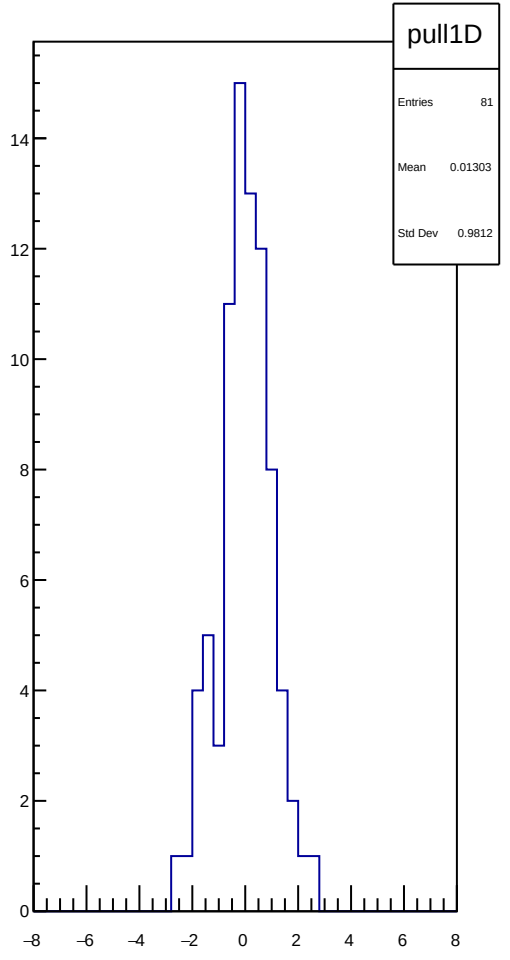

diff_bpm1i04X_rms vs run
χ^2 / ndf 1675 / 80
p0 859 ± 0.6905
920
900
880
860
840
820
800
780
760

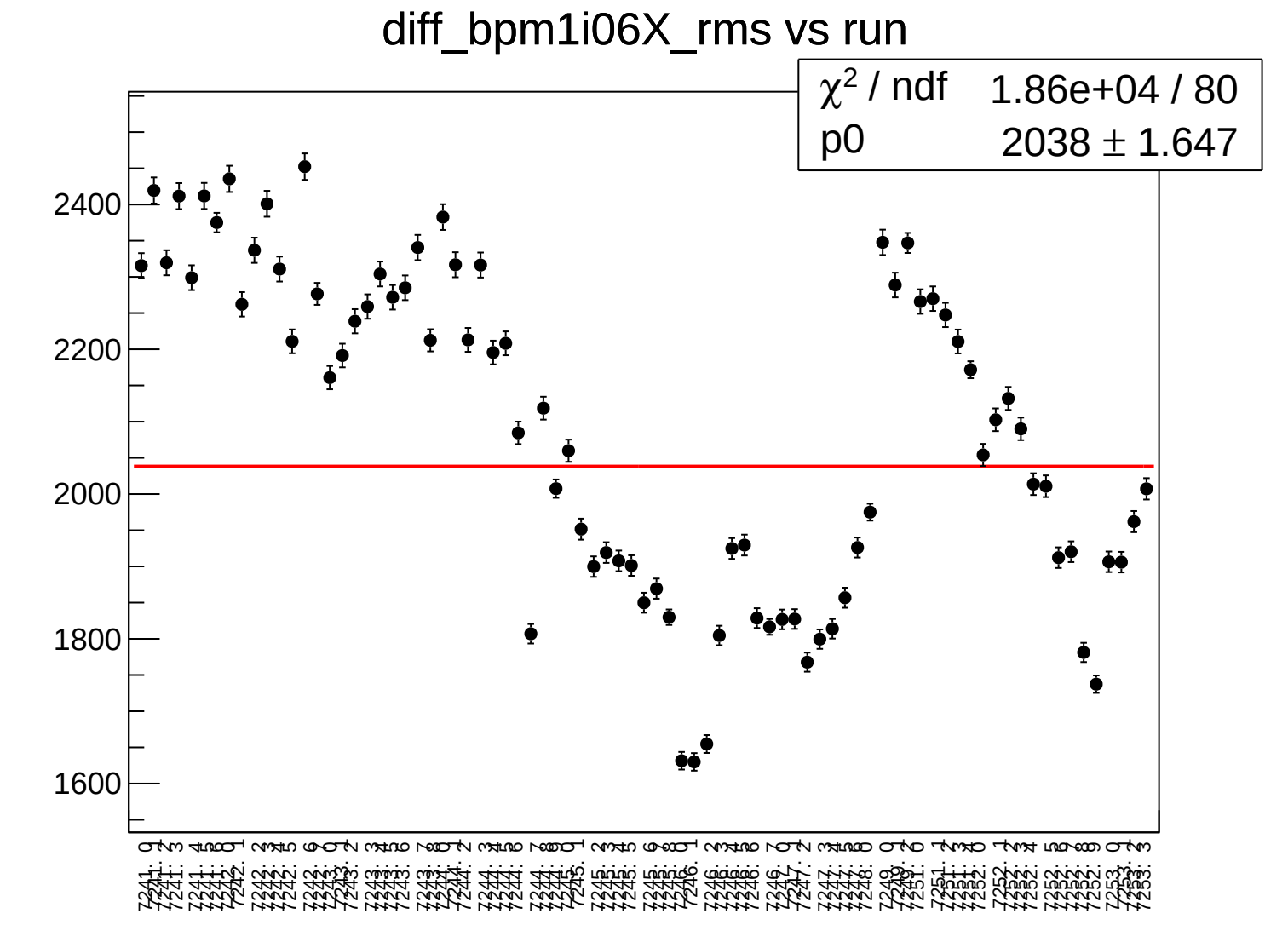

diff_bpm1i04Y_mean vs run
χ² / ndf 84.66 / 80
p0 −15.21 ± 0.8587
pull
Entries 81
Mean 698.8
Std Dev 0

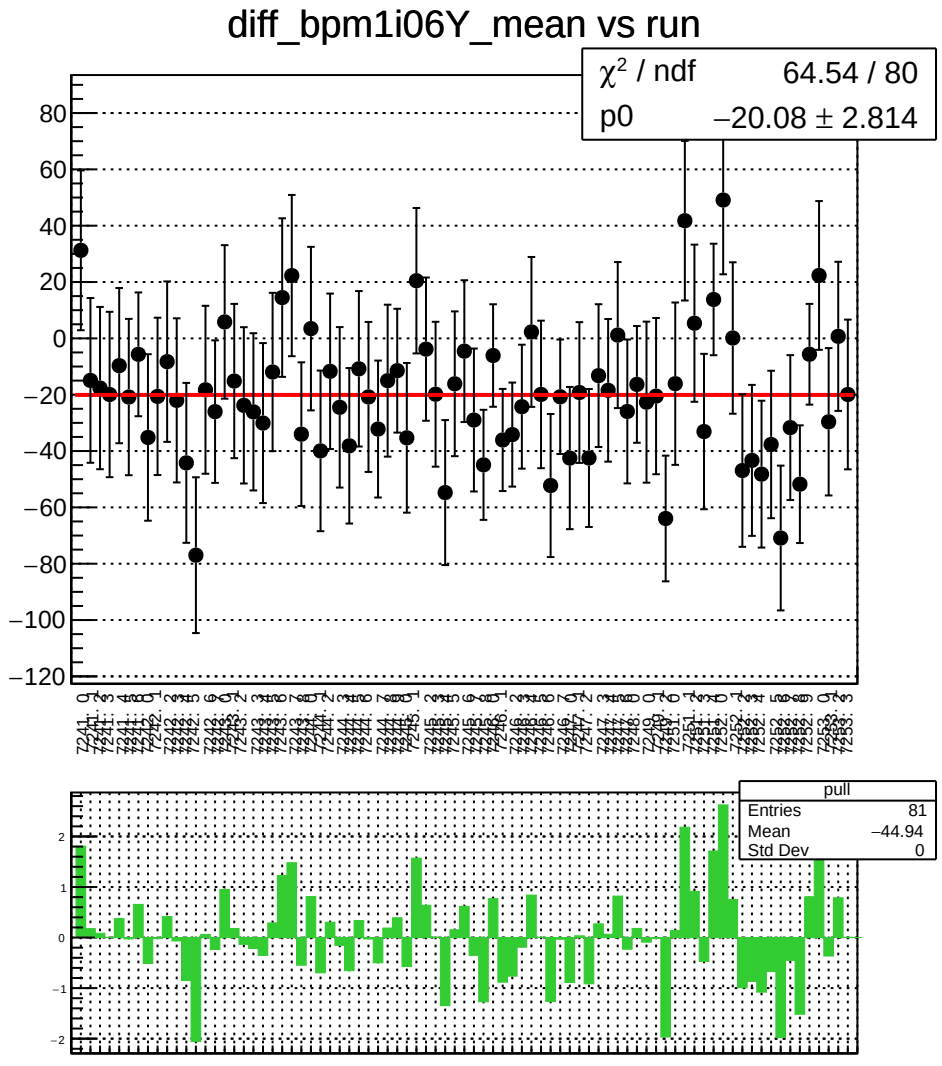

pull1D
Entries 81
Mean −0.007449
Std Dev 1.022

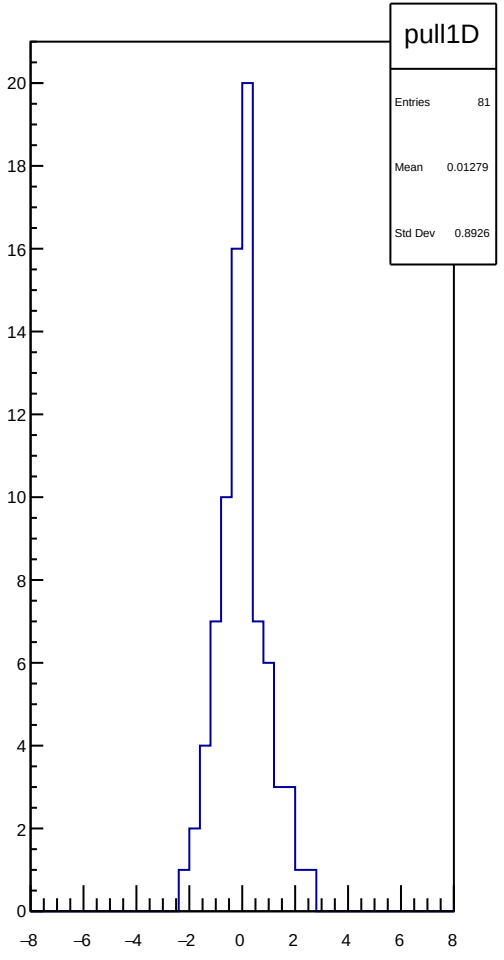

diff_bpm1i04Y_rms vs run
χ² / ndf 3.998e+04 / 80
p0 745.9 ± 0.6072
1300
1200
1100
1000
900
800
700
600

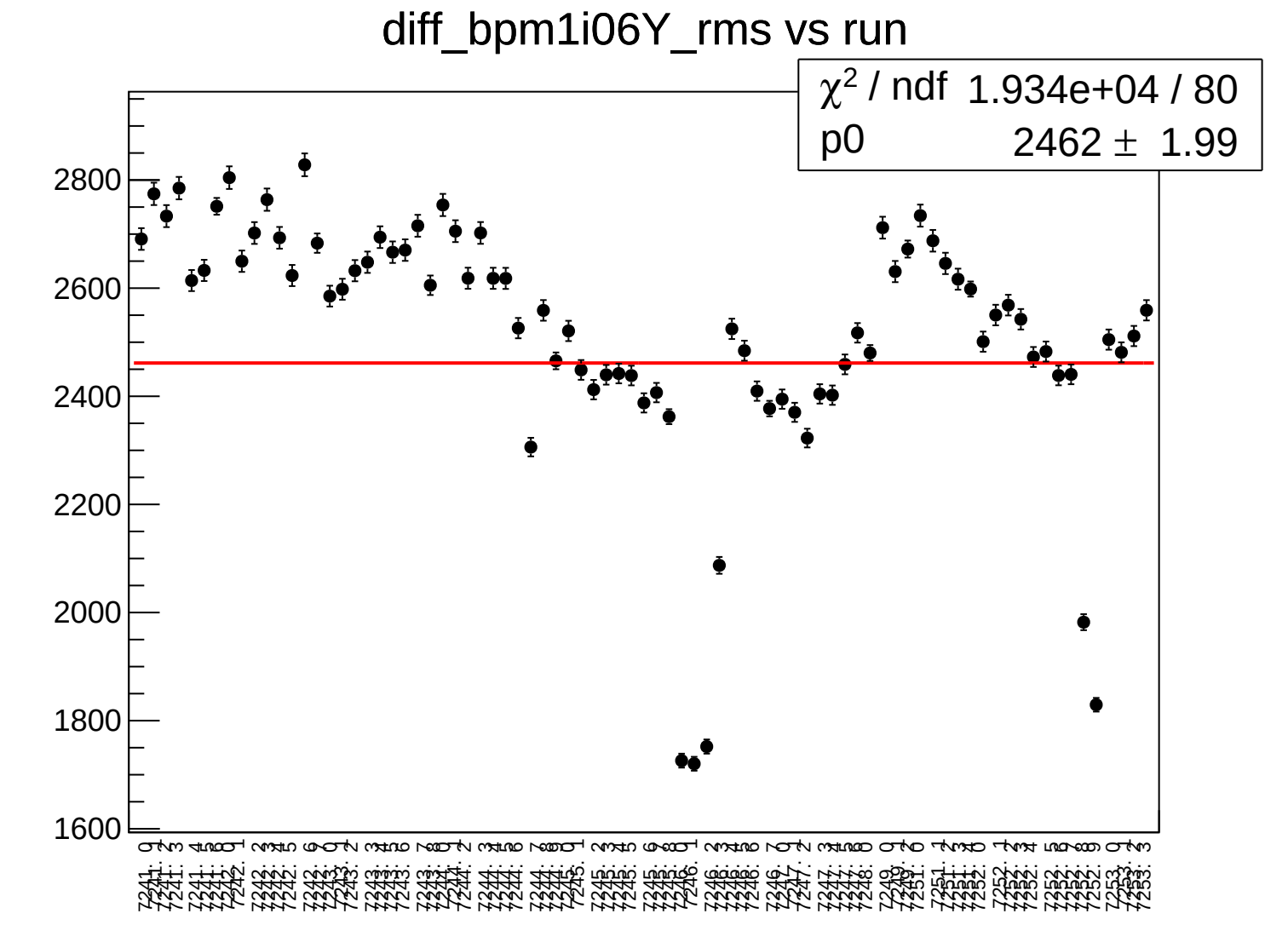

diff_bpm1i06X_mean vs run
χ² / ndf 78 / 80
p0 37.51 ± 2.33
pull
Entries 81
Mean −193.4
Std Dev 0

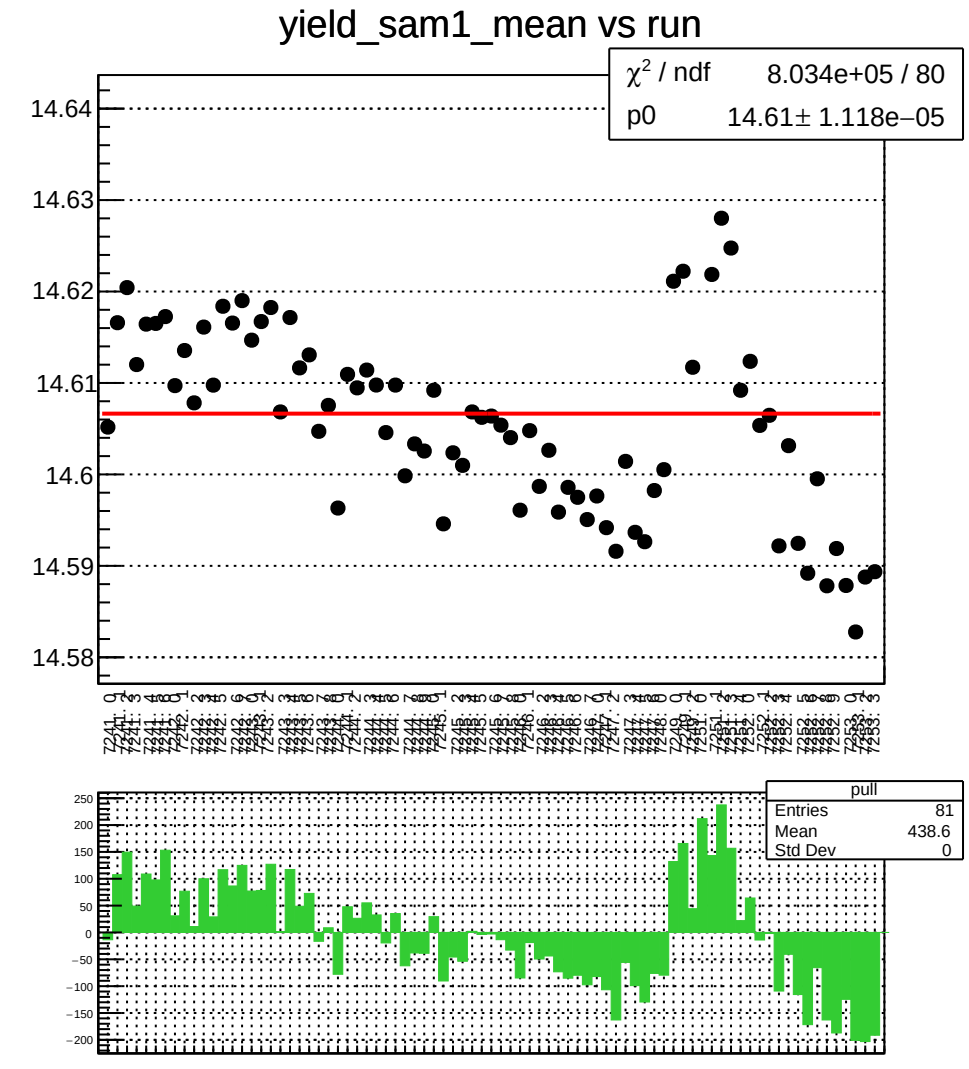

pull1D
Entries 81
Mean 0.01303
Std Dev 0.9812

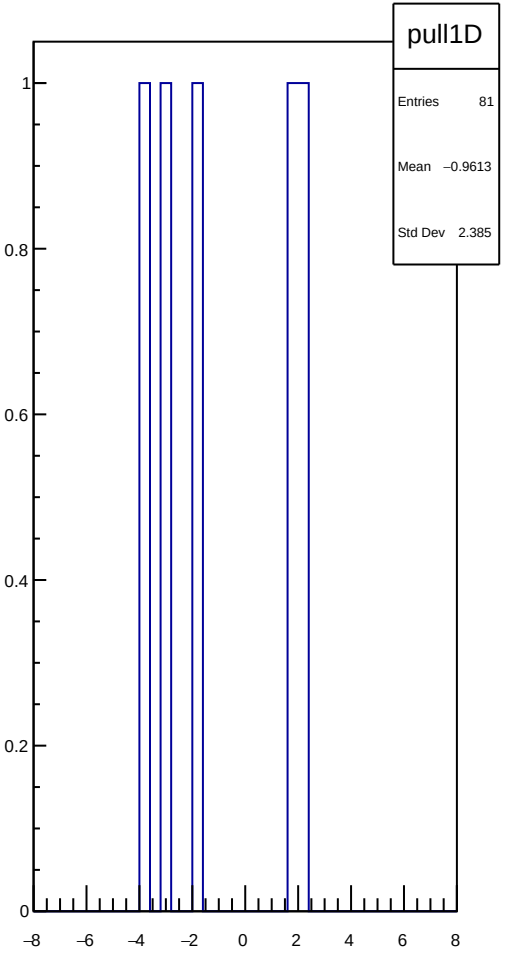

diff_bpm1i06X_rms vs run
χ² / ndf 1.86e+04 / 80
p0 2038 ± 1.647
2400
2200
2000
1800
1600

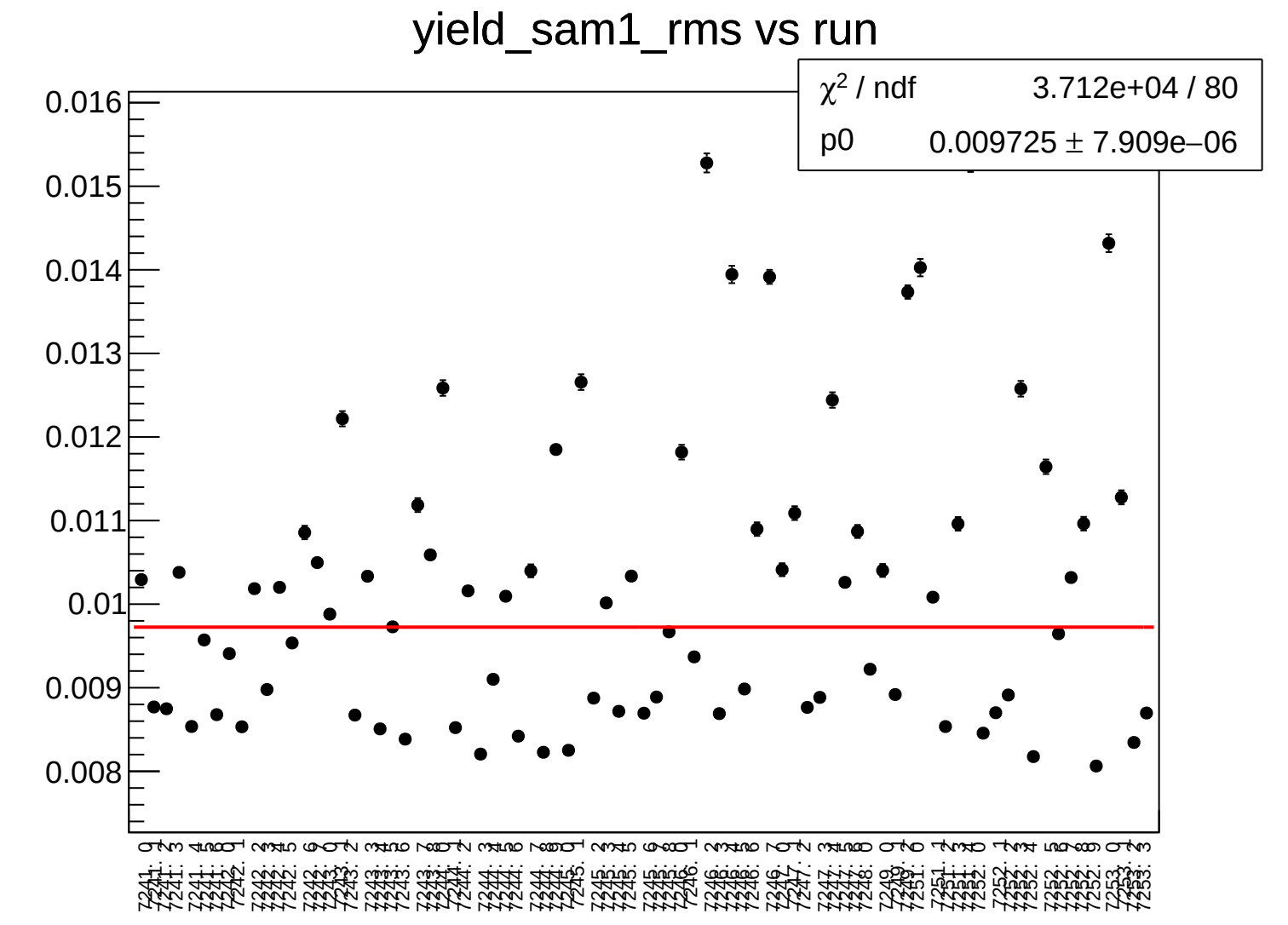

diff_bpm1i06Y_mean vs run
χ² / ndf 64.54 / 80
p0 −20.08 ± 2.814
pull
Entries 81
Mean −44.94
Std Dev 0

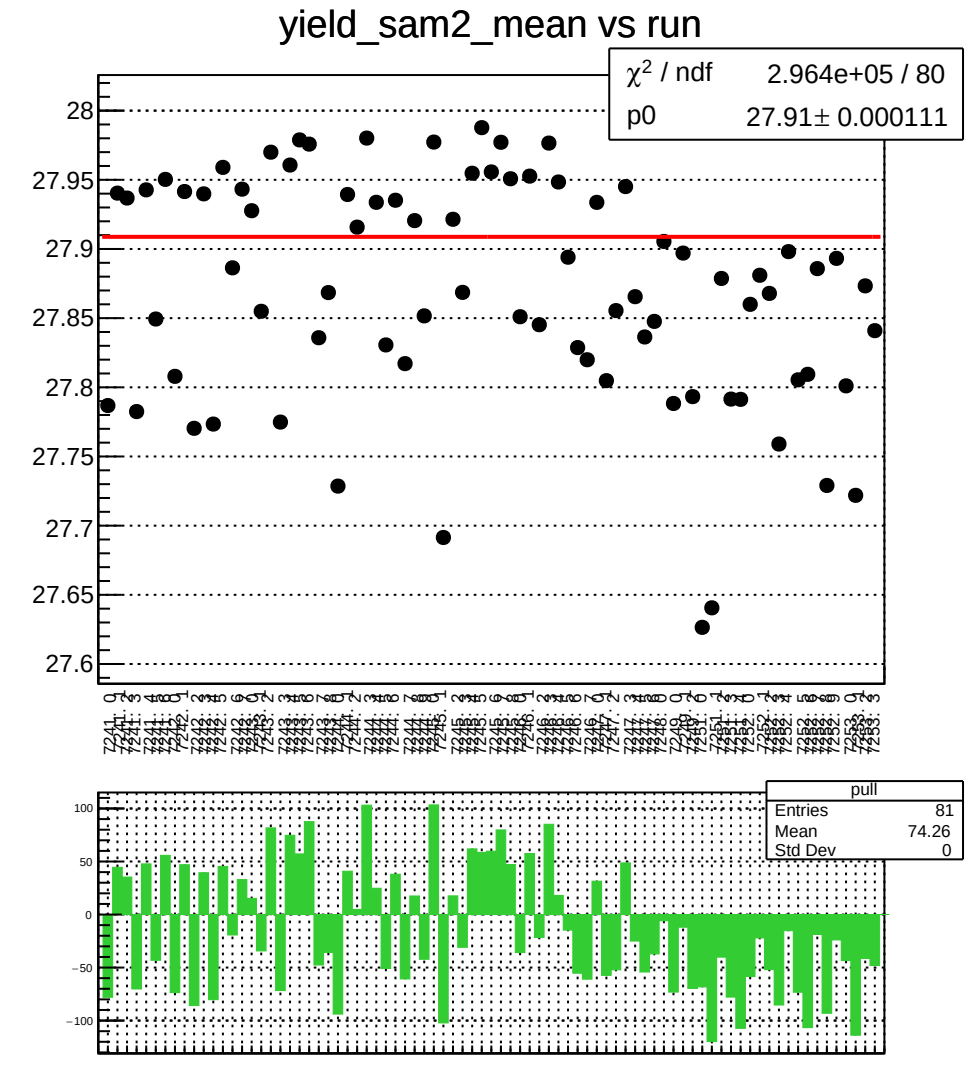

pull1D
Entries 81
Mean 0.01279
Std Dev 0.8926

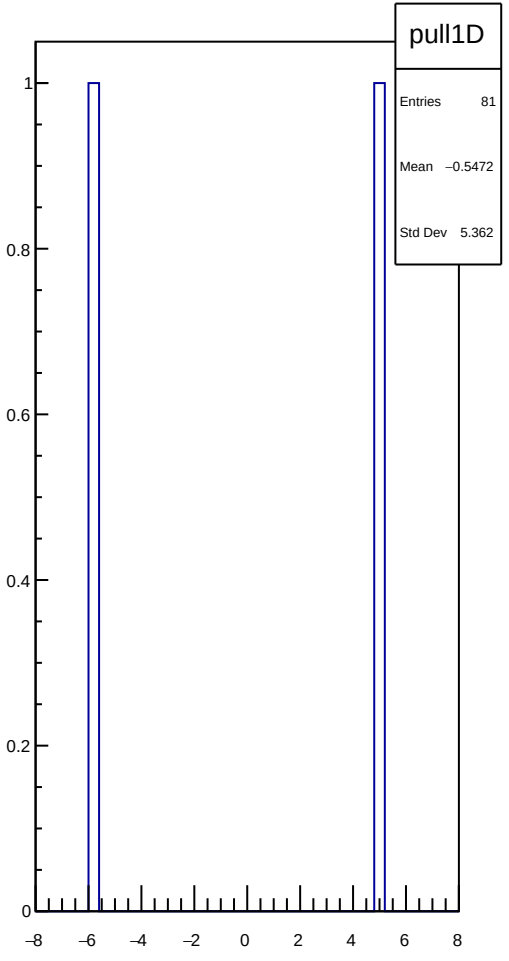

diff_bpm1i06Y_rms vs run
χ² / ndf 1.934e+04 / 80
p0 2462 ± 1.99
2800
2600
2400
2200
2000
1800
1600

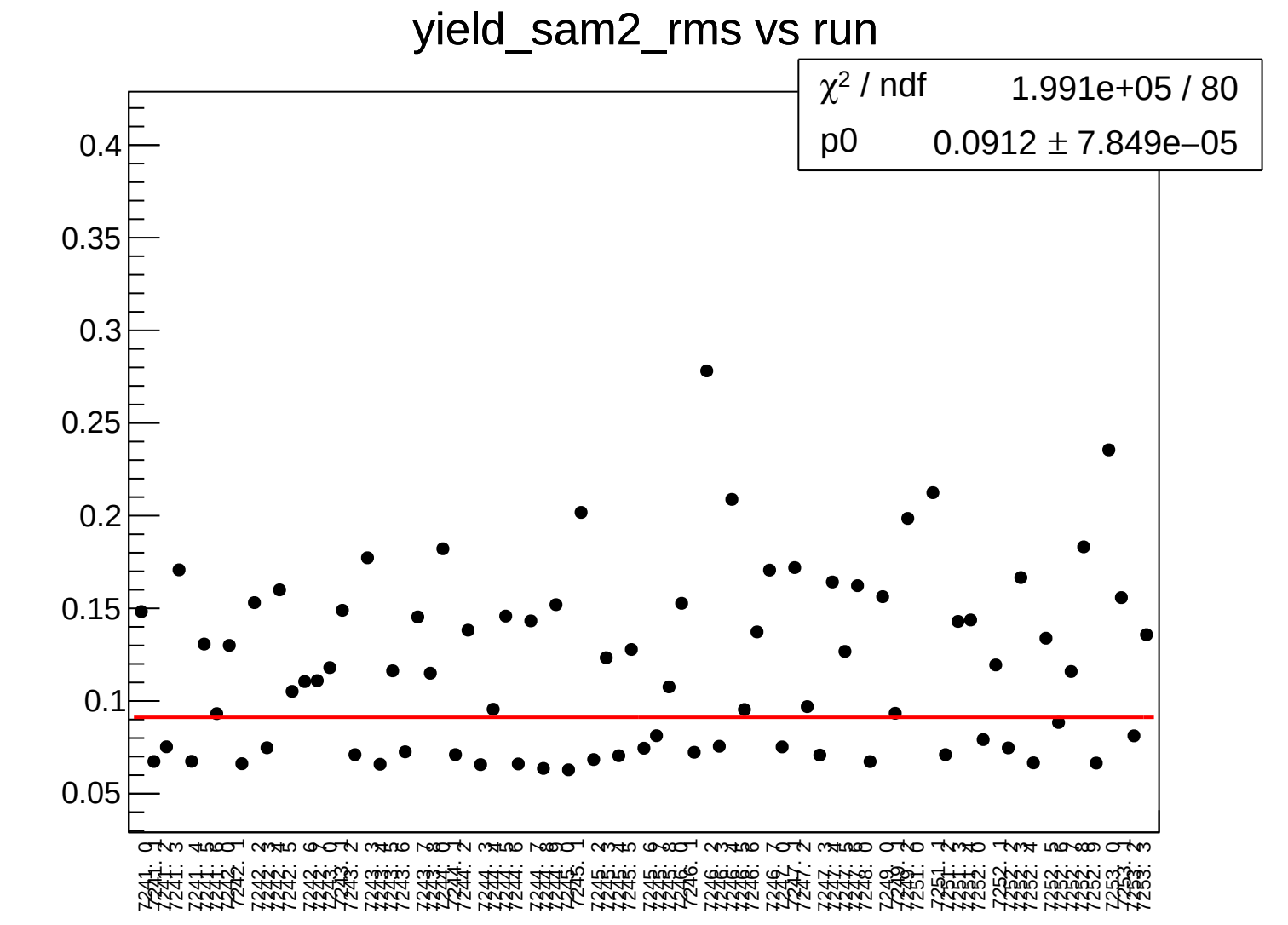

yield_sam1_mean vs run
χ² / ndf 8.034e+05 / 80
p0 14.61± 1.118e−05
14.64
14.63
14.62
14.61
14.6
14.59
14.58
pull
Entries 81
Mean 438.6
Std Dev 0
250
200
150
100
50
0
−50
−100
−150
−200

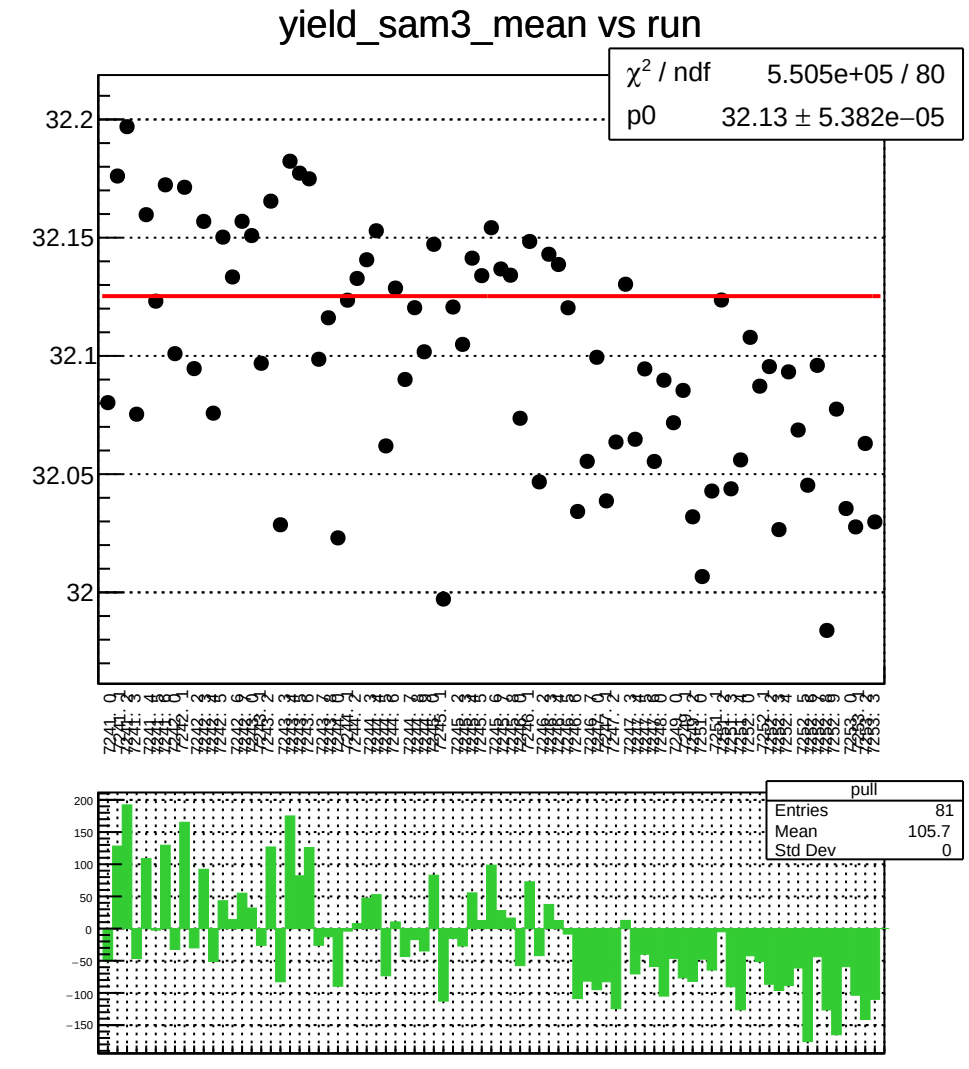

pull1D
Entries 81
Mean −0.9613
Std Dev 2.385
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

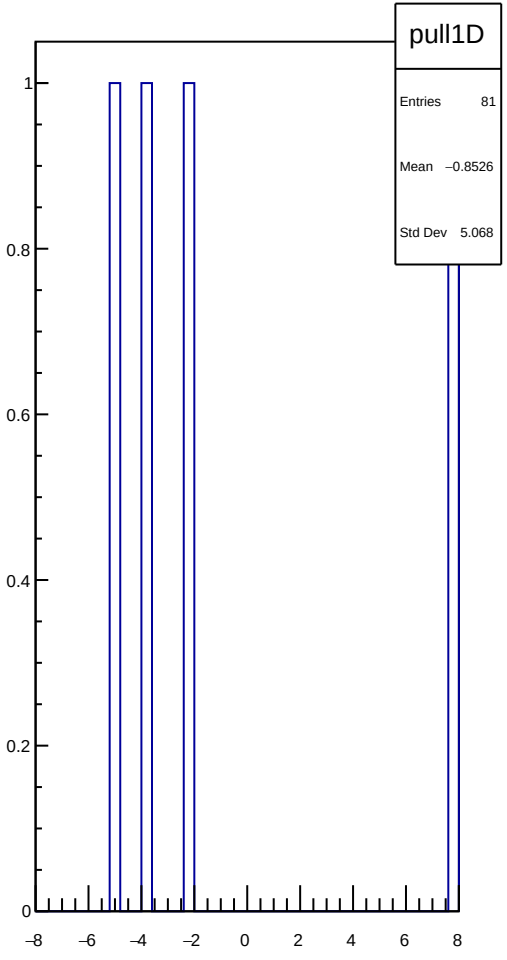

yield_sam1_rms vs run
χ² / ndf 3.712e+04 / 80
p0 0.009725 ± 7.909e−06
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008

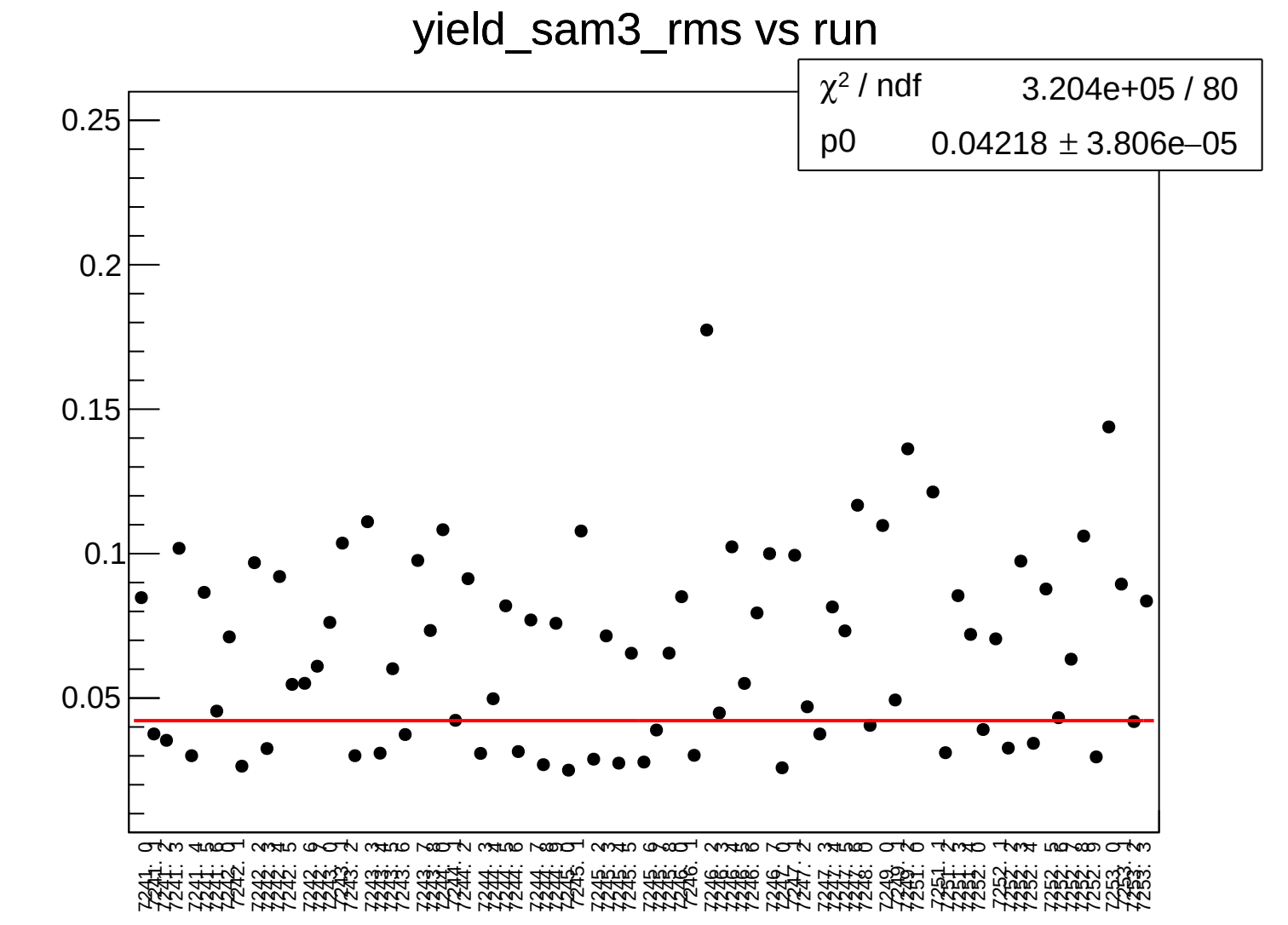

yield_sam2_mean vs run
χ² / ndf 2.964e+05 / 80
p0 27.91± 0.000111
28
27.95
27.9
27.85
27.8
27.75
27.7
27.65
27.6
pull
Entries 81
Mean 74.26
Std Dev 0
100
50
0
−50
−100

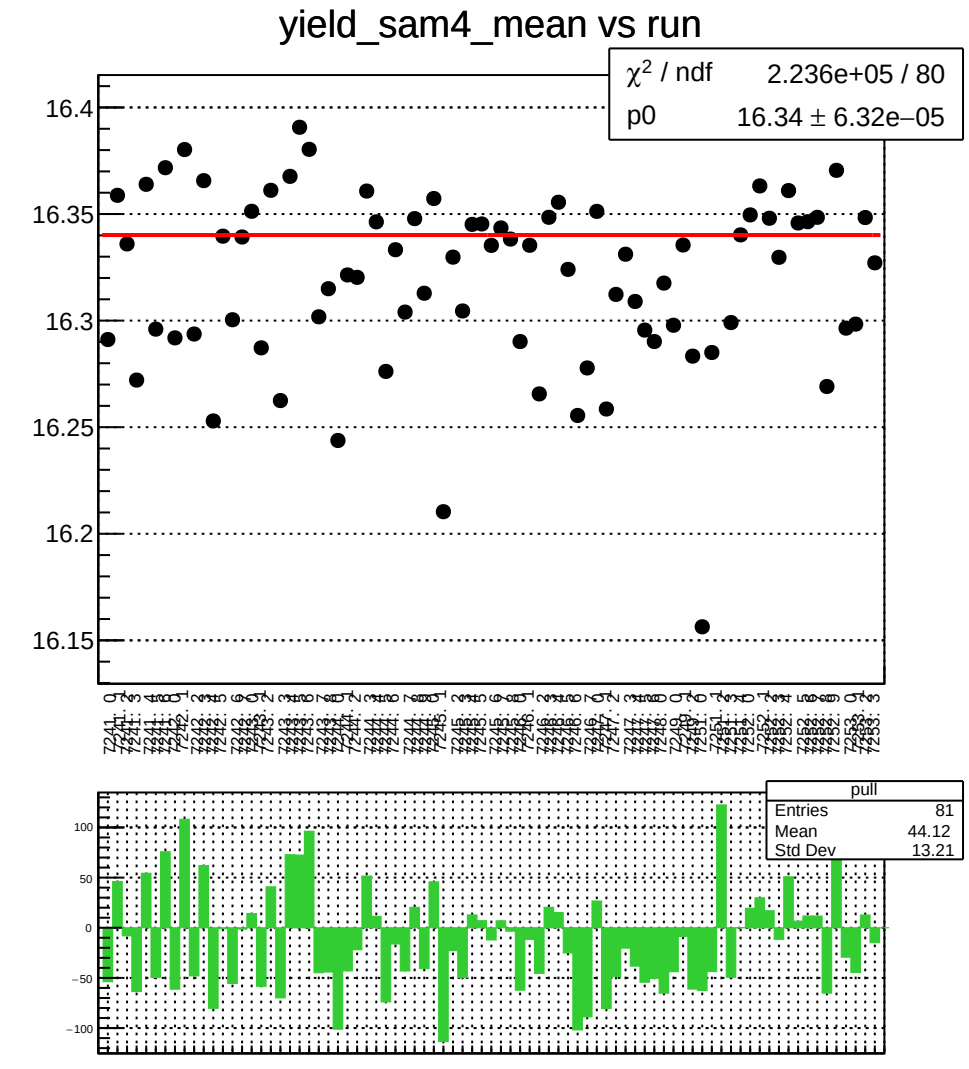

pull1D
Entries 81
Mean −0.5472
Std Dev 5.362
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

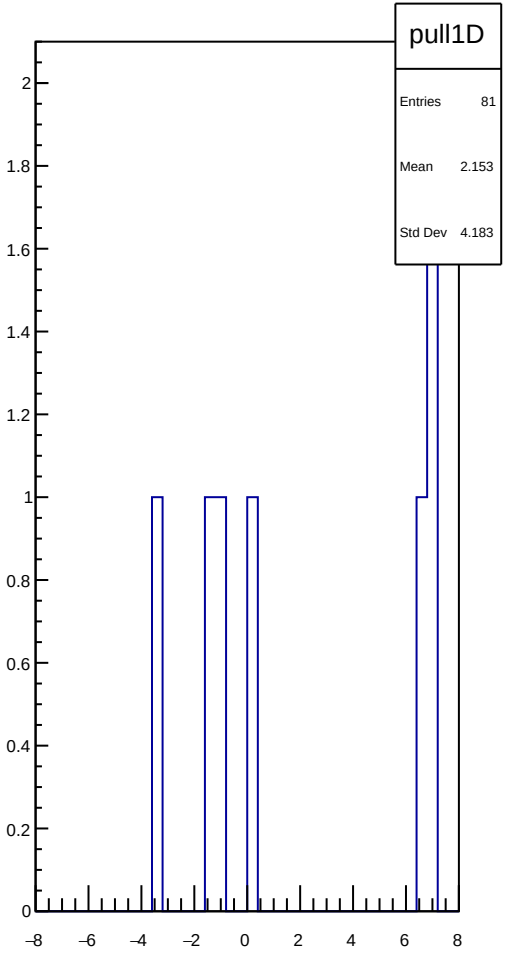

yield_sam2_rms vs run
χ² / ndf 1.991e+05 / 80
p0 0.0912 ± 7.849e−05
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

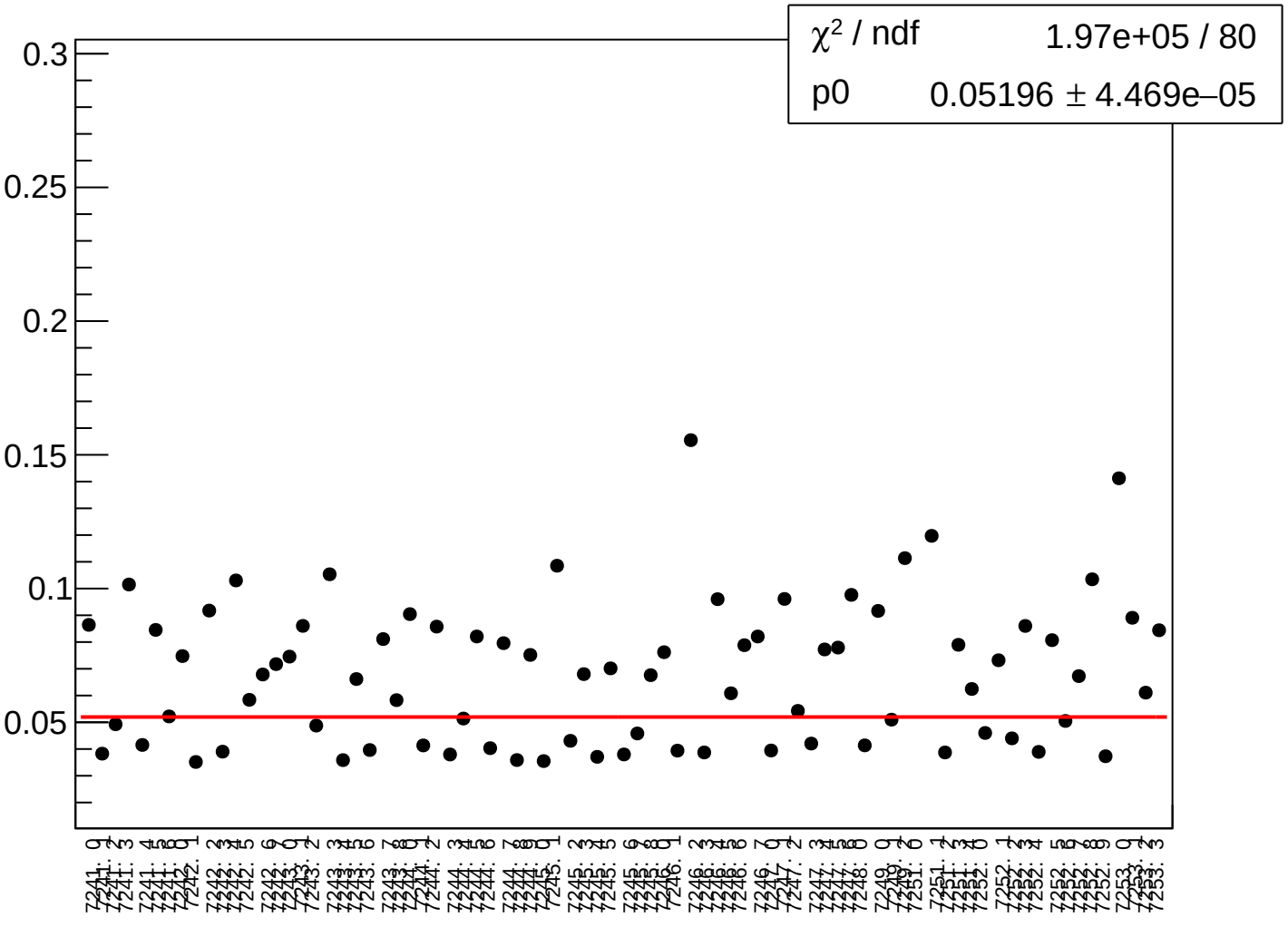

yield_sam3_mean vs run
χ² / ndf 5.505e+05 / 80
p0 32.13 ± 5.382e−05
32.2
32.15
32.1
32.05
32
pull
Entries 81
Mean 105.7
Std Dev 0
200
150
100
50
0
−50
−100
−150

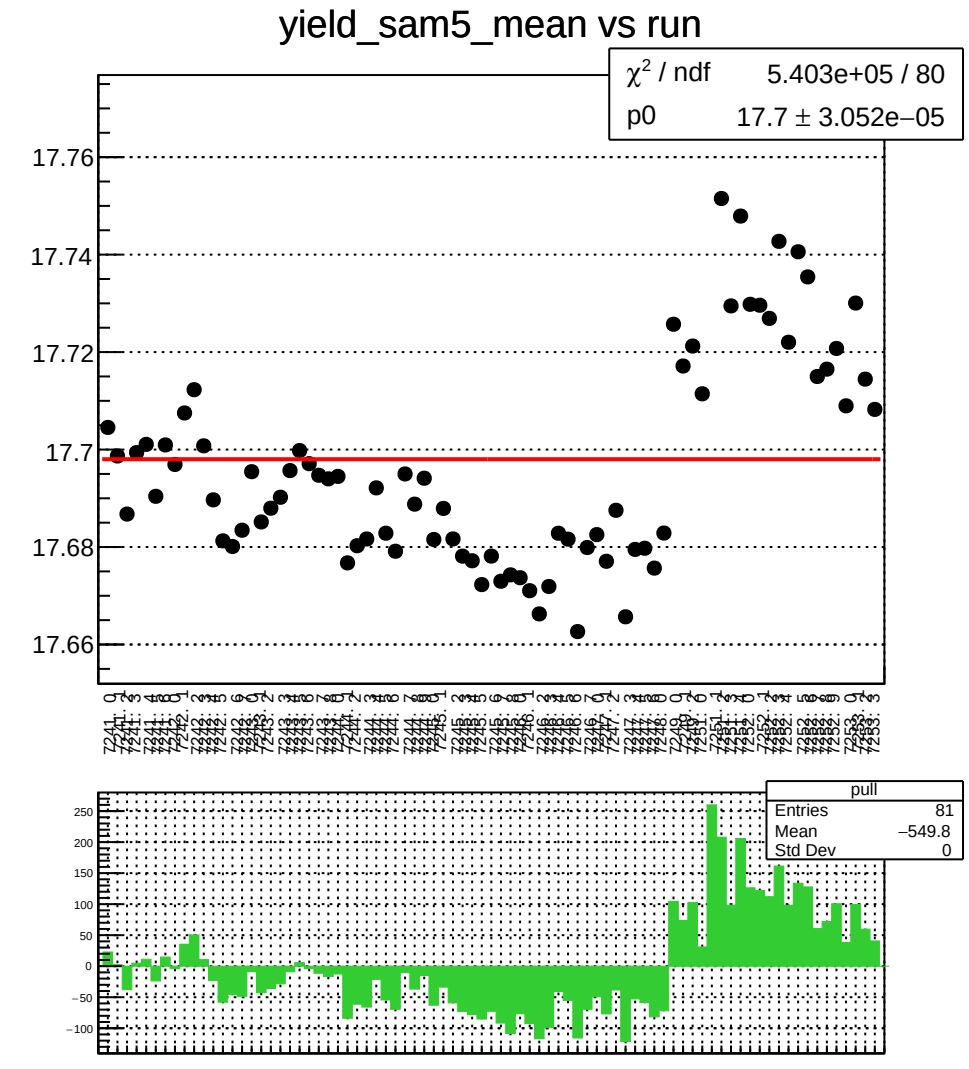

pull1D
Entries 81
Mean −0.8526
Std Dev 5.068
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

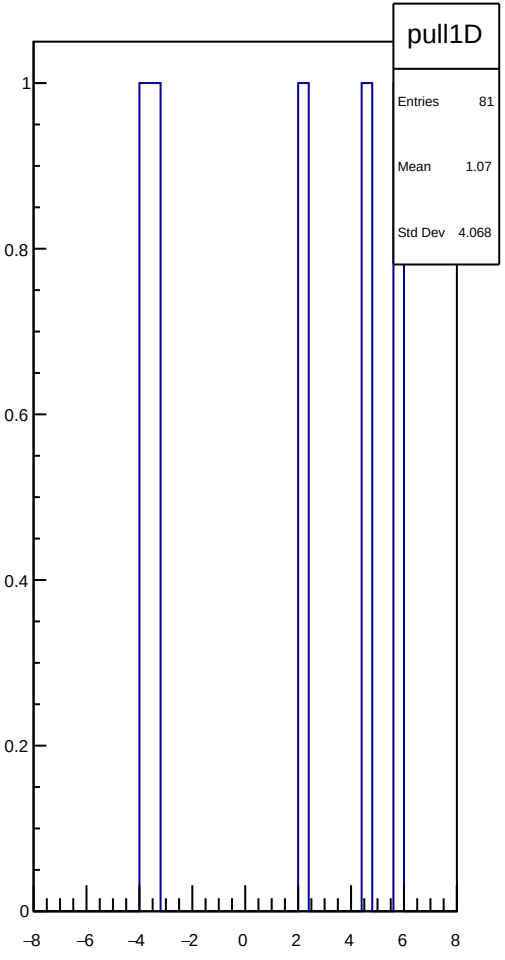

yield_sam3_rms vs run
χ² / ndf 3.204e+05 / 80
p0 0.04218 ± 3.806e–05
0.25
0.2
0.15
0.1
0.05

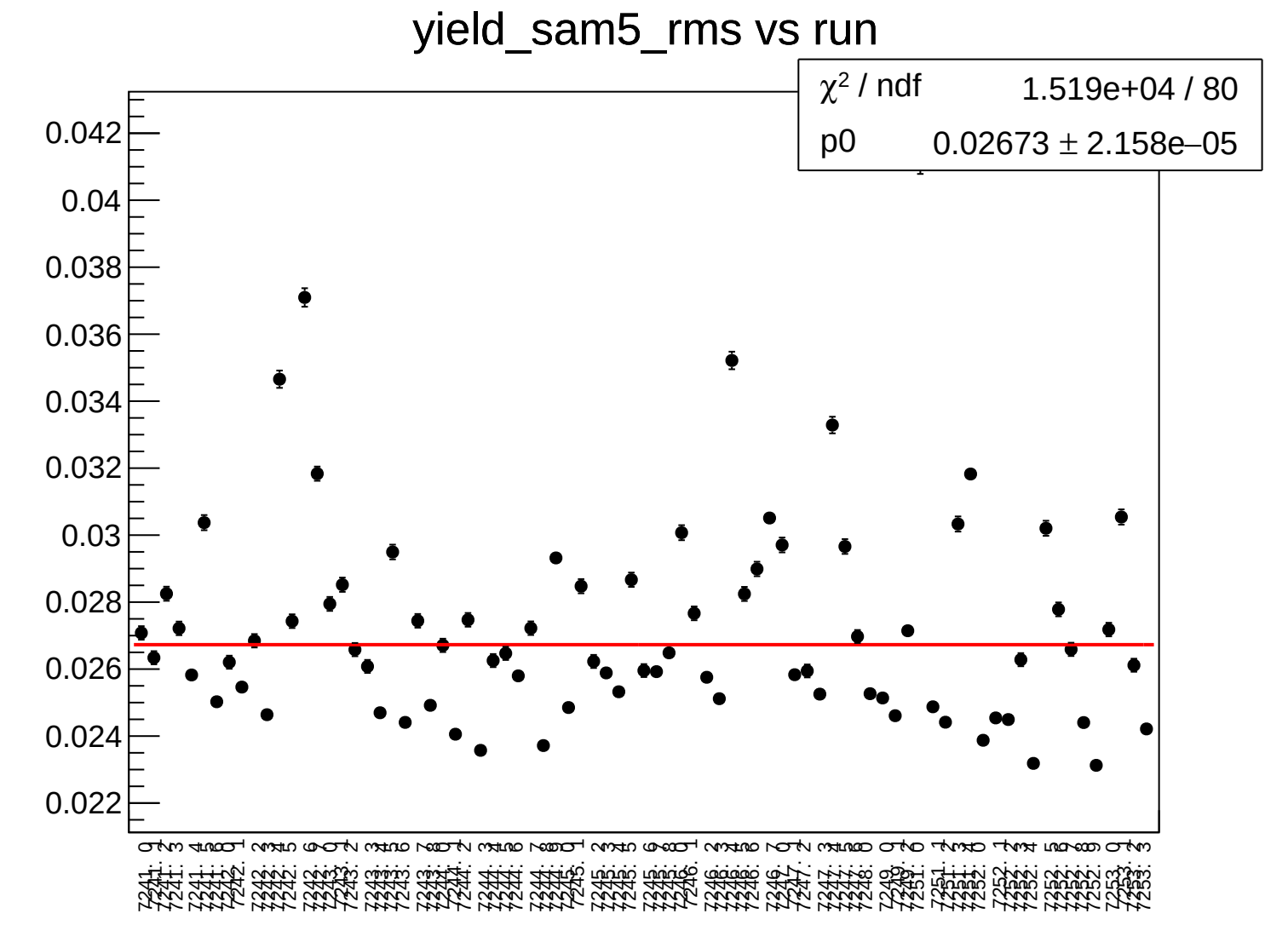

yield_sam4_mean vs run
χ² / ndf 2.236e+05 / 80
p0 16.34 ± 6.32e−05
16.4
16.35
16.3
16.25
16.2
16.15
pull
Entries 81
Mean 44.12
Std Dev 13.21
100
50
0
−50
−100

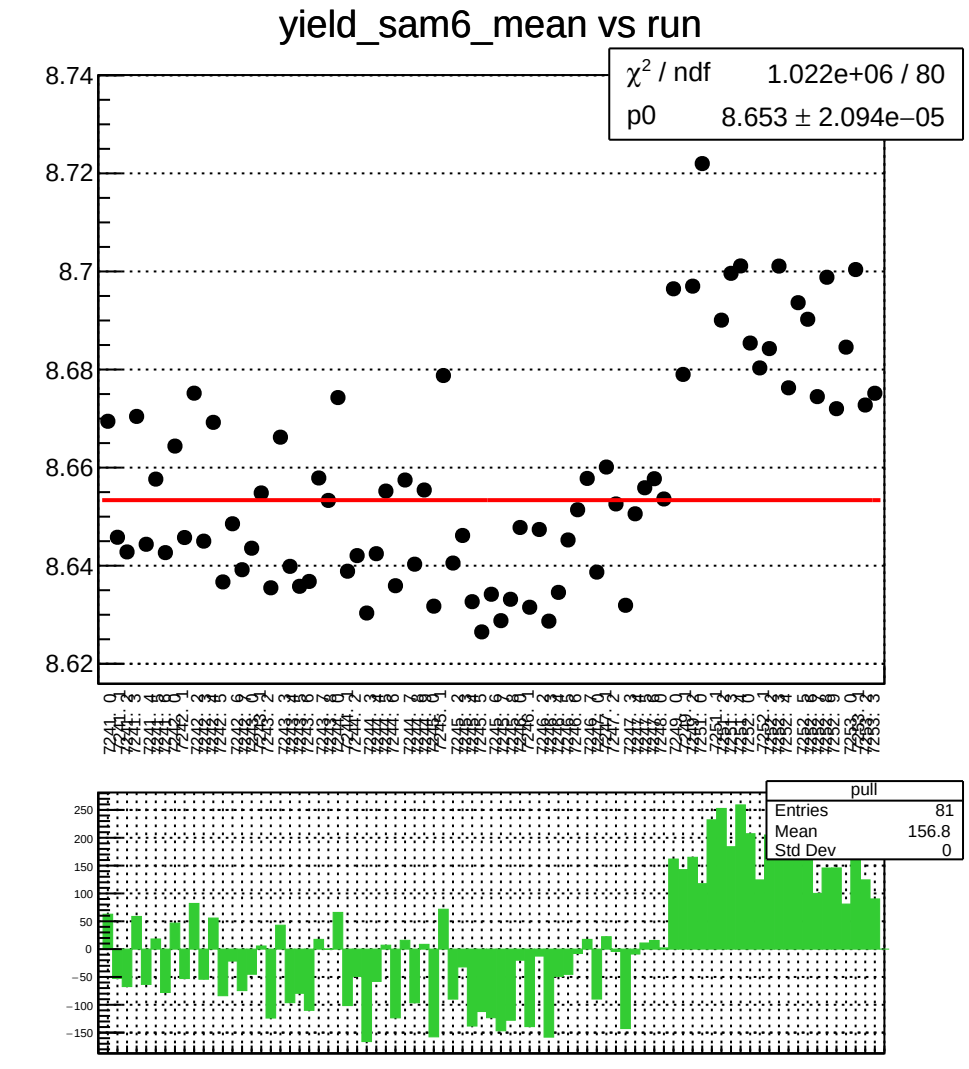

pull1D
Entries 81
Mean 2.153
Std Dev 4.183
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

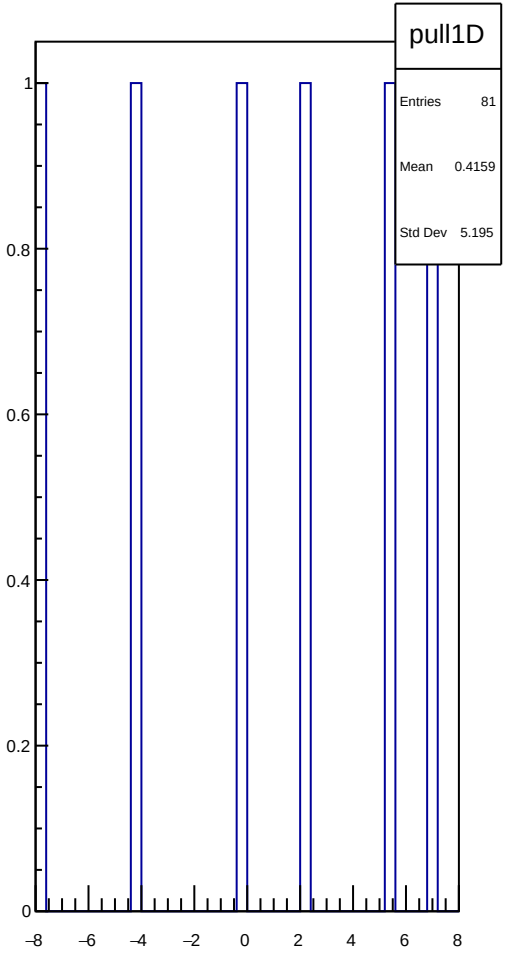

yield_sam4_rms vs run
χ² / ndf 1.97e+05 / 80
p0 0.05196 ± 4.469e−05
0.3
0.25
0.2
0.15
0.1
0.05

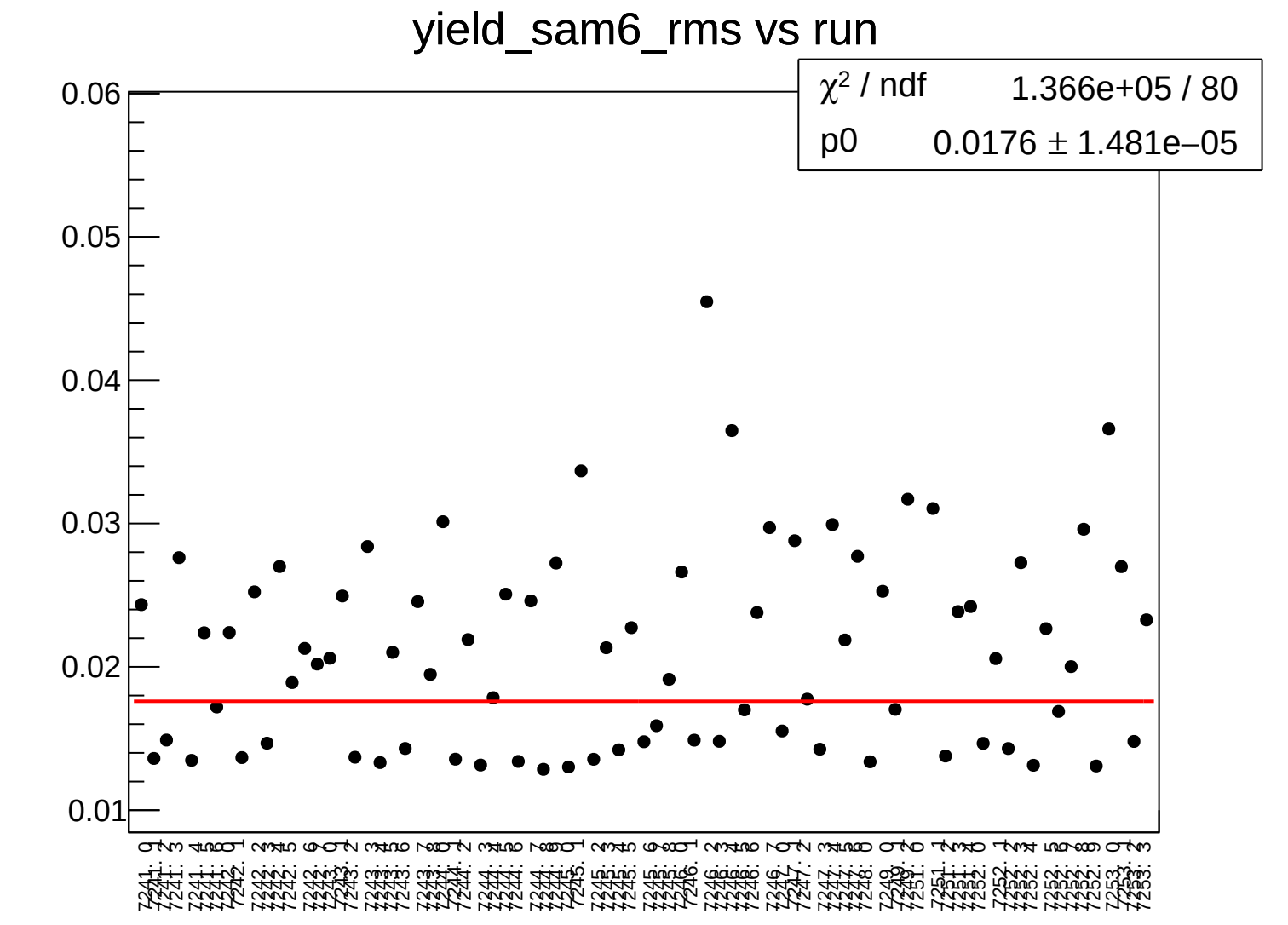

yield_sam5_mean vs run
χ² / ndf 5.403e+05 / 80
p0 17.7 ± 3.052e−05
17.76
17.74
17.72
17.7
17.68
17.66
pull
Entries 81
Mean −549.8
Std Dev 0
250
200
150
100
50
0
−50
−100

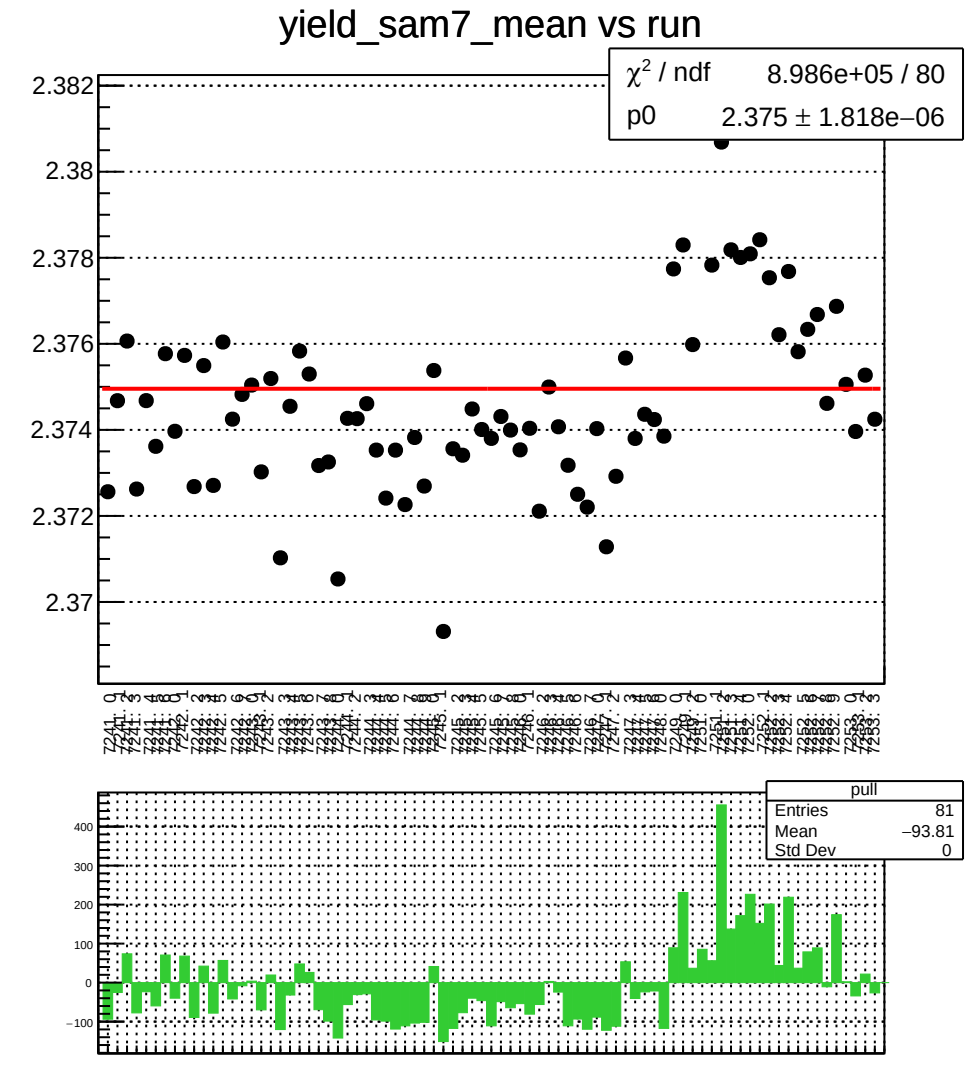

pull1D
Entries 81
Mean 1.07
Std Dev 4.068
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

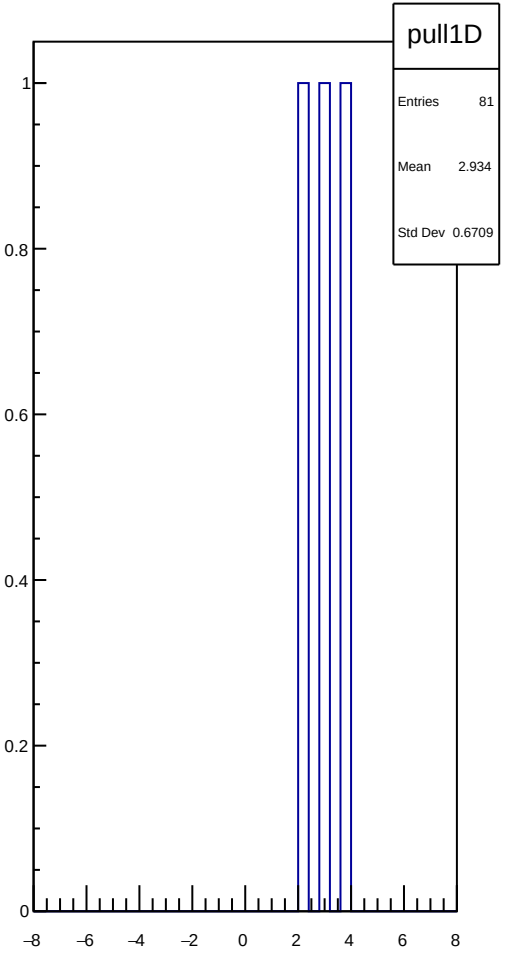

yield_sam5_rms vs run
χ² / ndf 1.519e+04 / 80
p0 0.02673 ± 2.158e−05
0.042
0.04
0.038
0.036
0.034
0.032
0.03
0.028
0.026
0.024
0.022

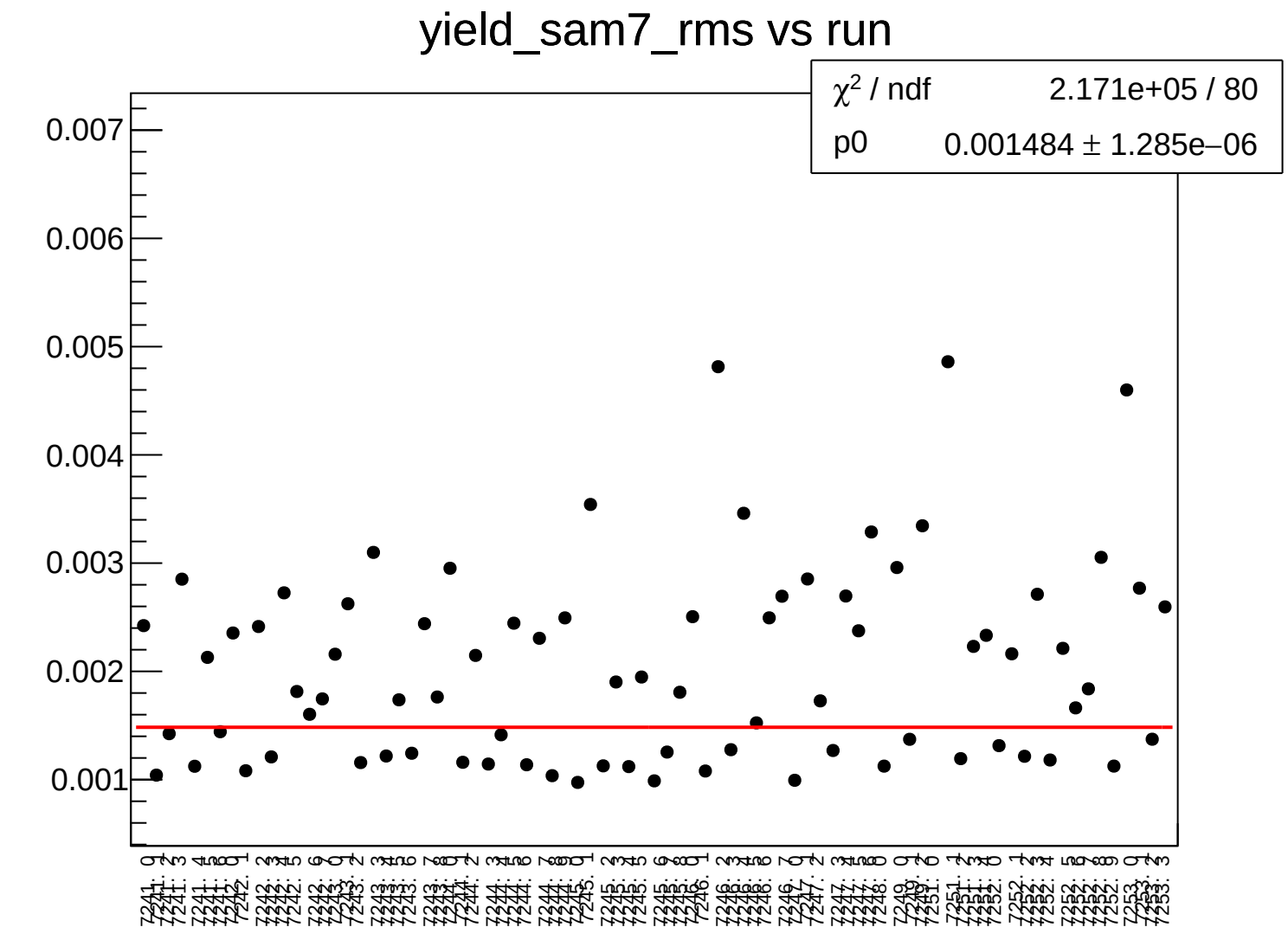

yield_sam6_mean vs run
χ² / ndf 1.022e+06 / 80
p0 8.653 ± 2.094e−05
8.74
8.72
8.7
8.68
8.66
8.64
8.62
pull
Entries 81
Mean 156.8
Std Dev 0
250
200
150
100
50
0
−50
−100
−150

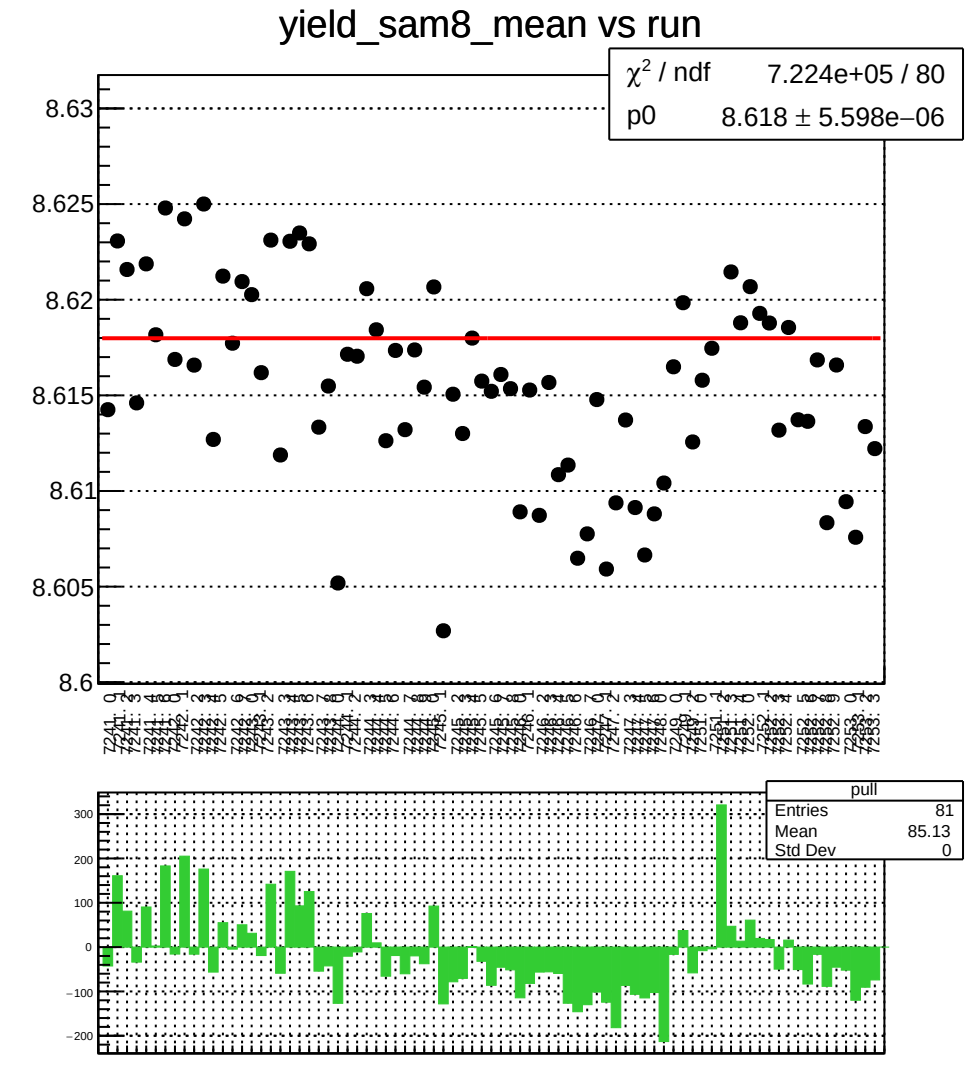

pull1D
Entries 81
Mean 0.4159
Std Dev 5.195
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

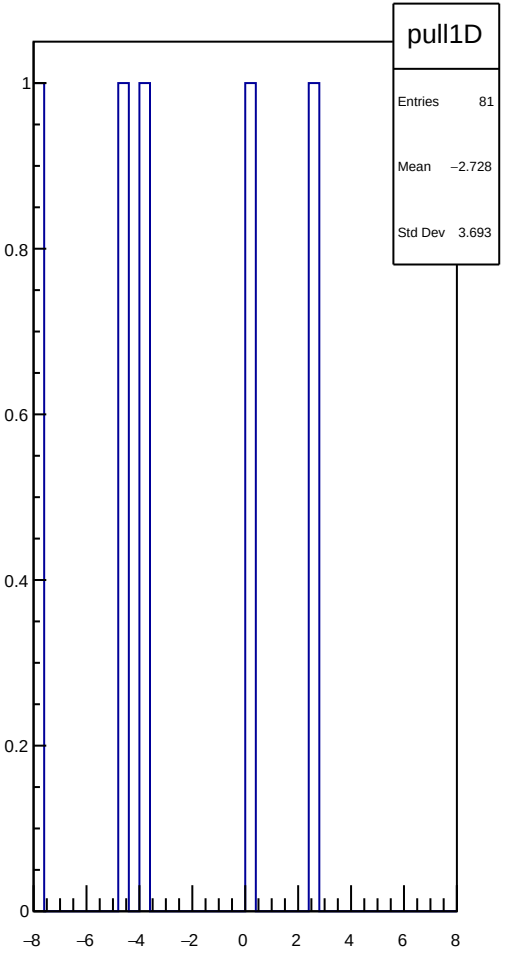

yield_sam6_rms vs run
χ² / ndf 1.366e+05 / 80
p0 0.0176 ± 1.481e−05
0.06
0.05
0.04
0.03
0.02
0.01

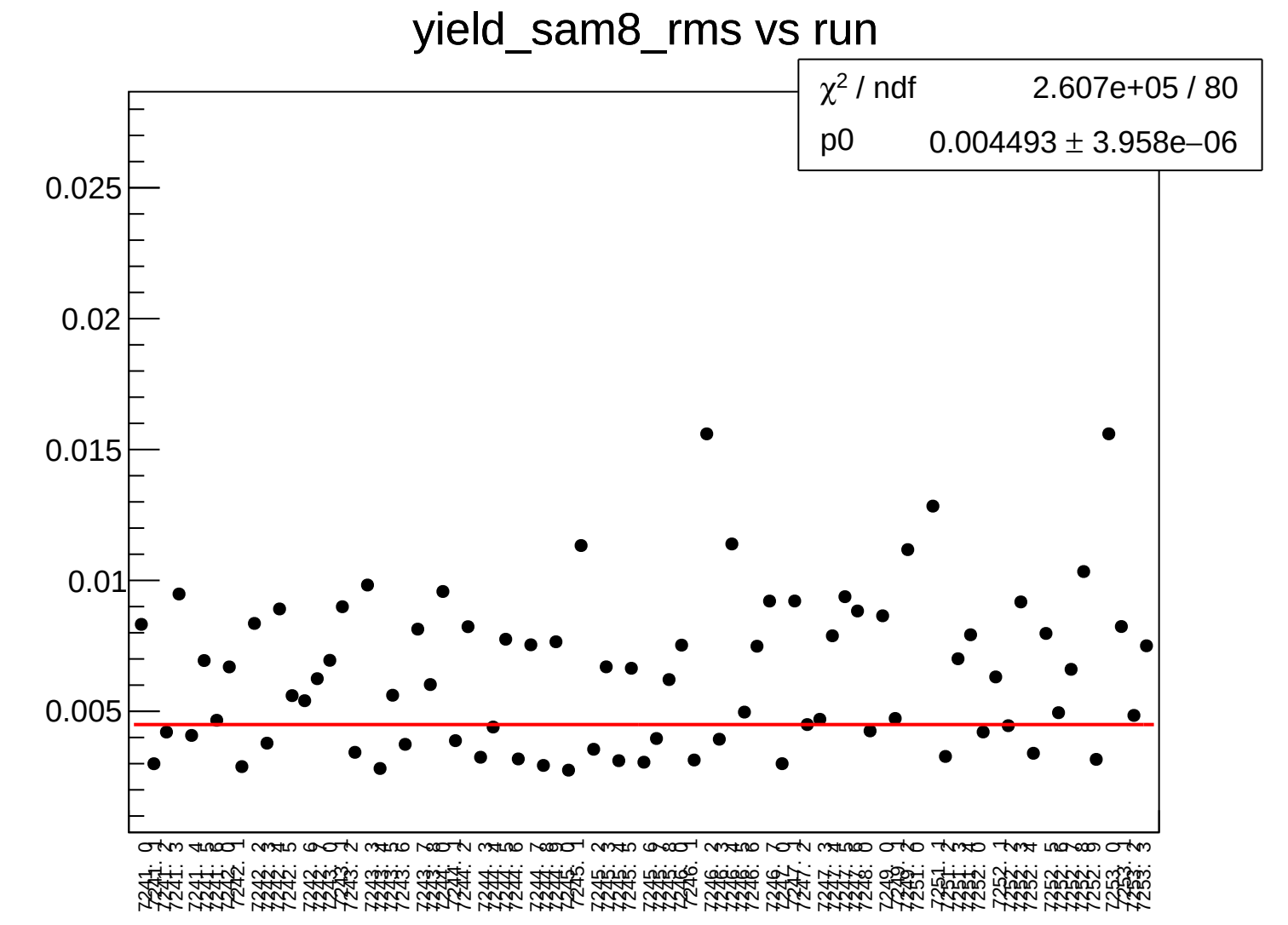

yield_sam7_mean vs run
χ² / ndf 8.986e+05 / 80
p0 2.375 ± 1.818e−06
2.382
2.38
2.378
2.376
2.374
2.372
2.37
pull
Entries 81
Mean −93.81
Std Dev 0
400
300
200
100
0
−100

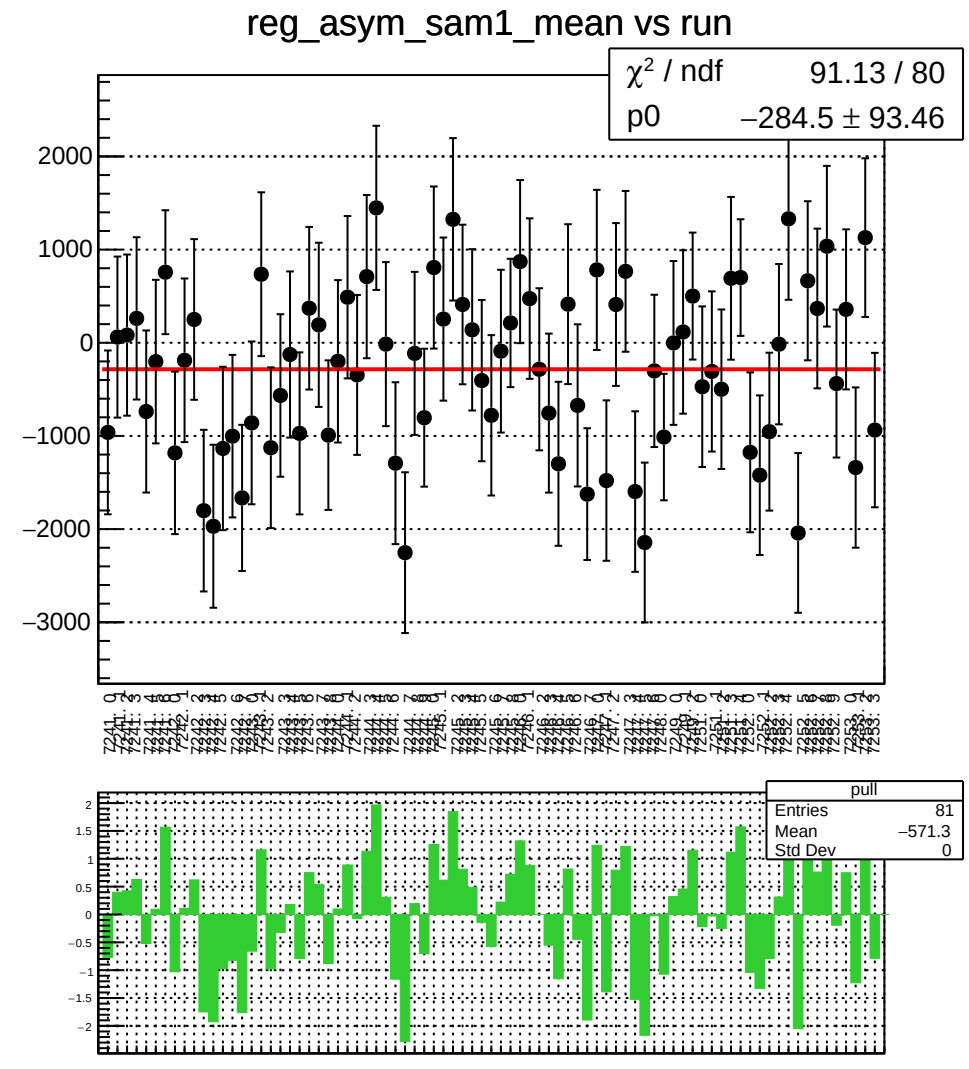

pull1D
Entries 81
Mean 2.934
Std Dev 0.6709
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

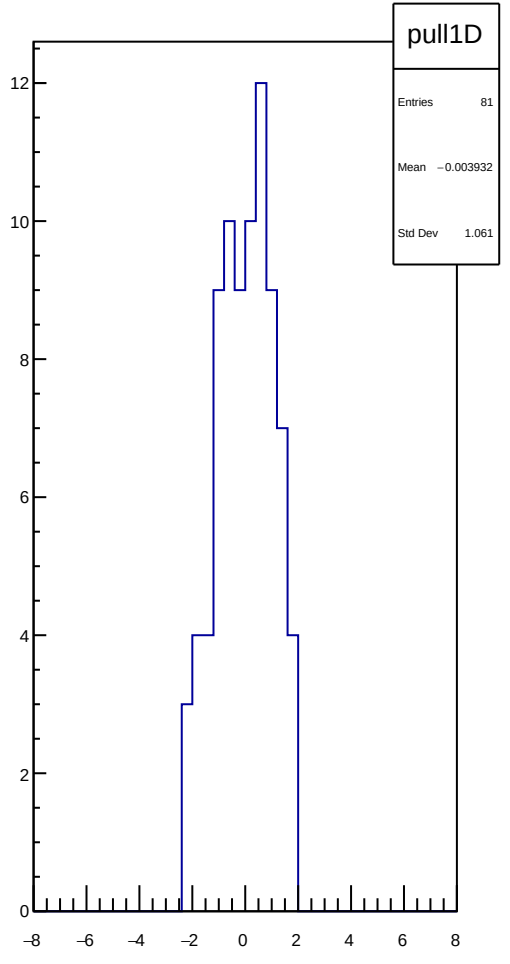

yield_sam7_rms vs run
χ² / ndf 2.171e+05 / 80
p0 0.001484 ± 1.285e−06
0.007
0.006
0.005
0.004
0.003
0.002
0.001

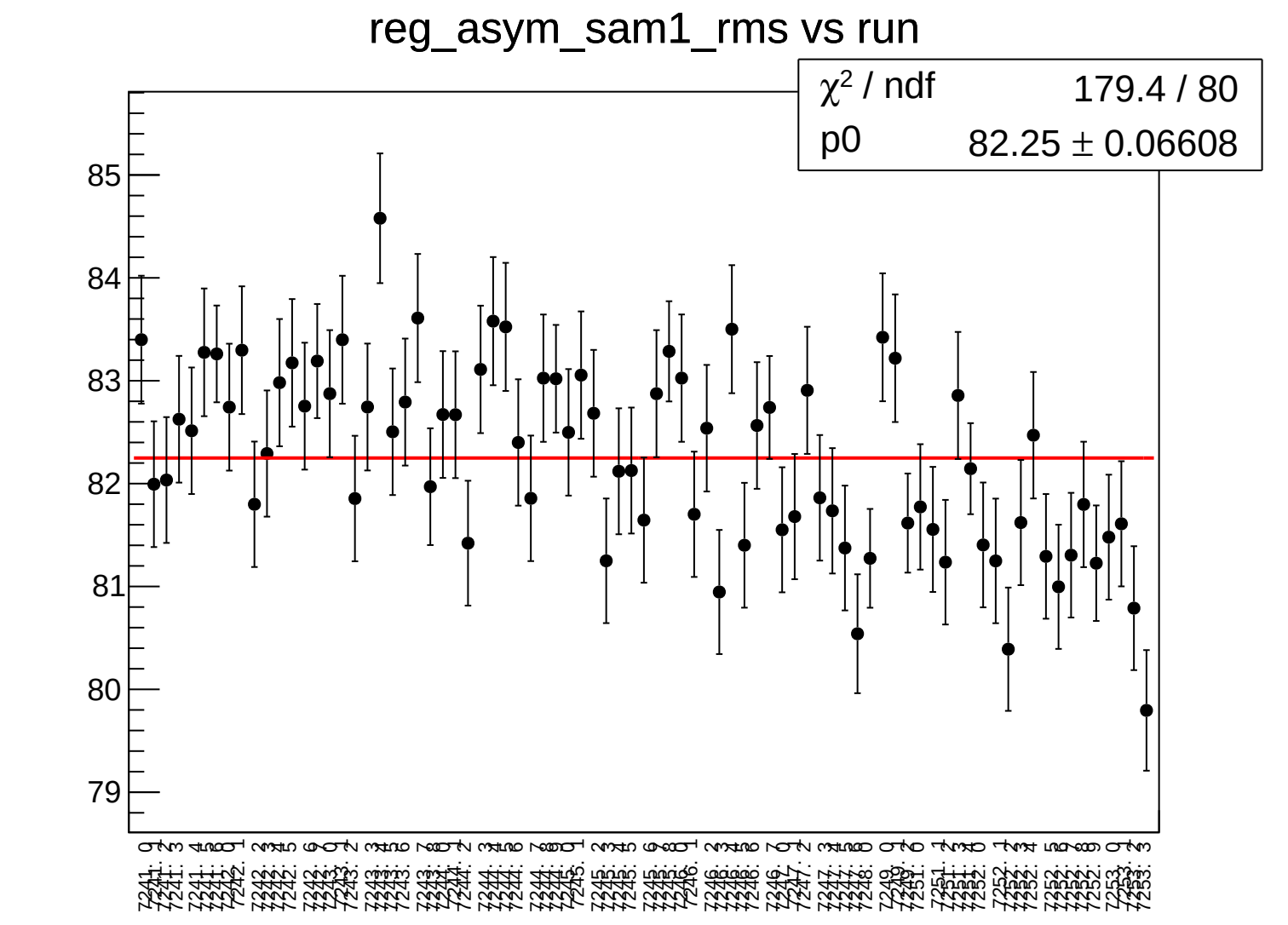

yield_sam8_mean vs run
χ² / ndf 7.224e+05 / 80
p0 8.618 ± 5.598e−06
8.63
8.625
8.62
8.615
8.61
8.605
8.6
pull
Entries 81
Mean 85.13
Std Dev 0
300
200
100
0
−100
−200

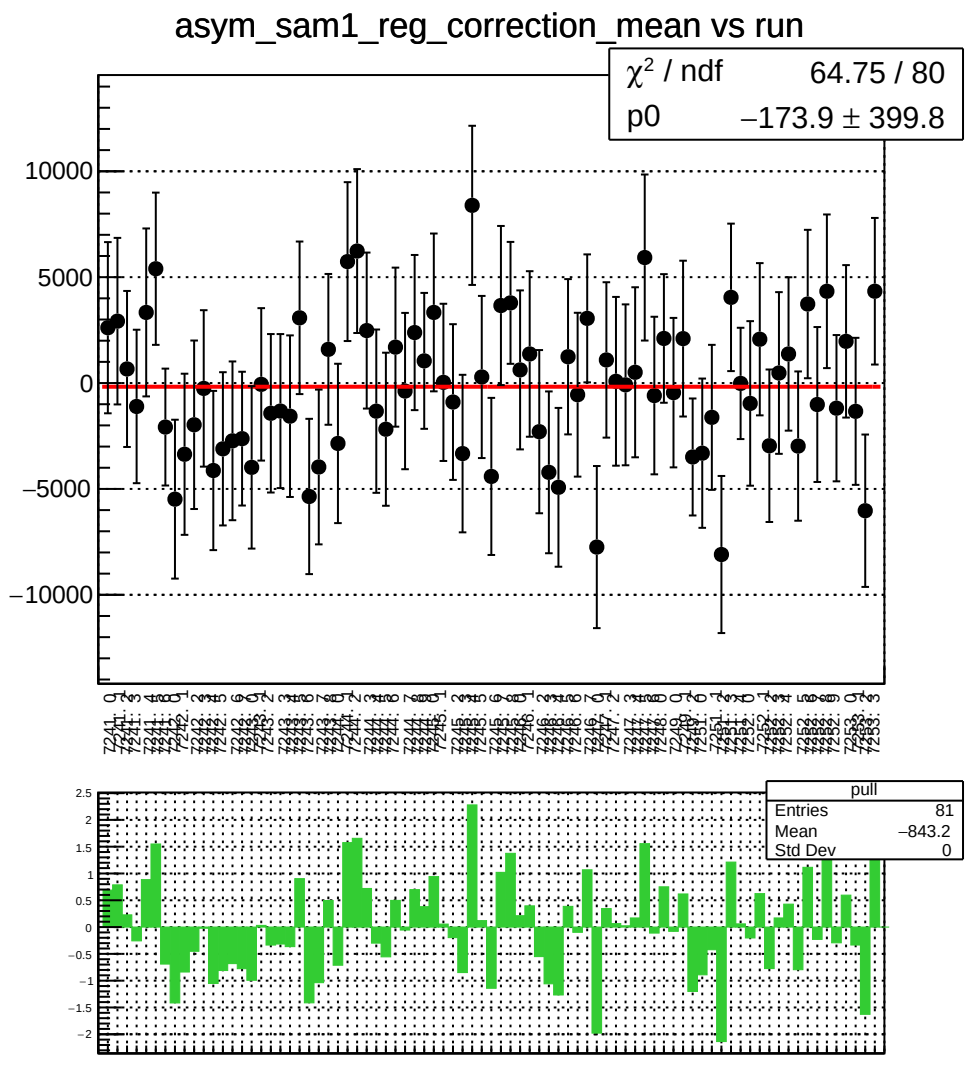

pull1D
Entries 81
Mean −2.728
Std Dev 3.693
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

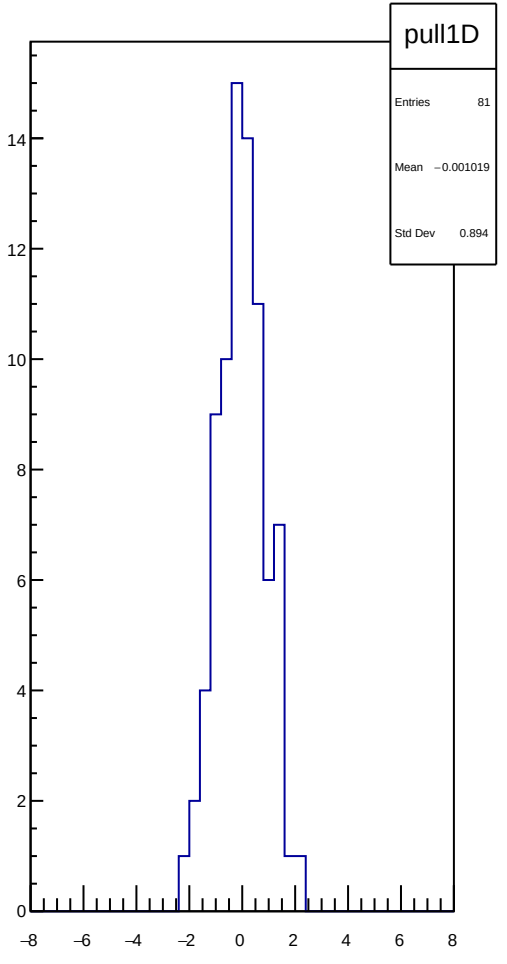

yield_sam8_rms vs run
χ² / ndf 2.607e+05 / 80
p0 0.004493 ± 3.958e−06
0.025
0.02
0.015
0.01
0.005

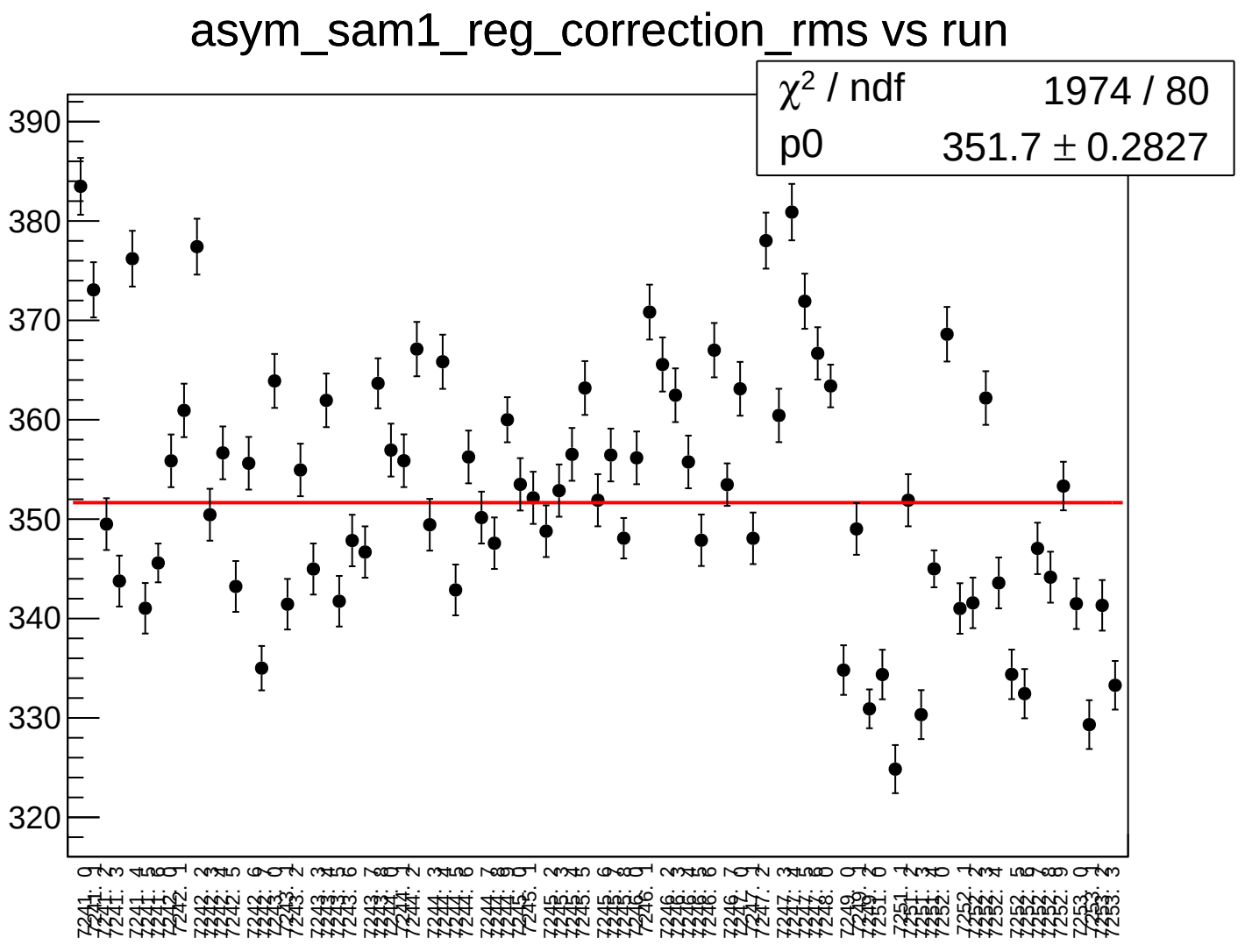

reg_asym_sam1_mean vs run
χ² / ndf 91.13 / 80
p0 −284.5 ± 93.46
2000
1000
0
−1000
−2000
−3000
pull
Entries 81
Mean −571.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

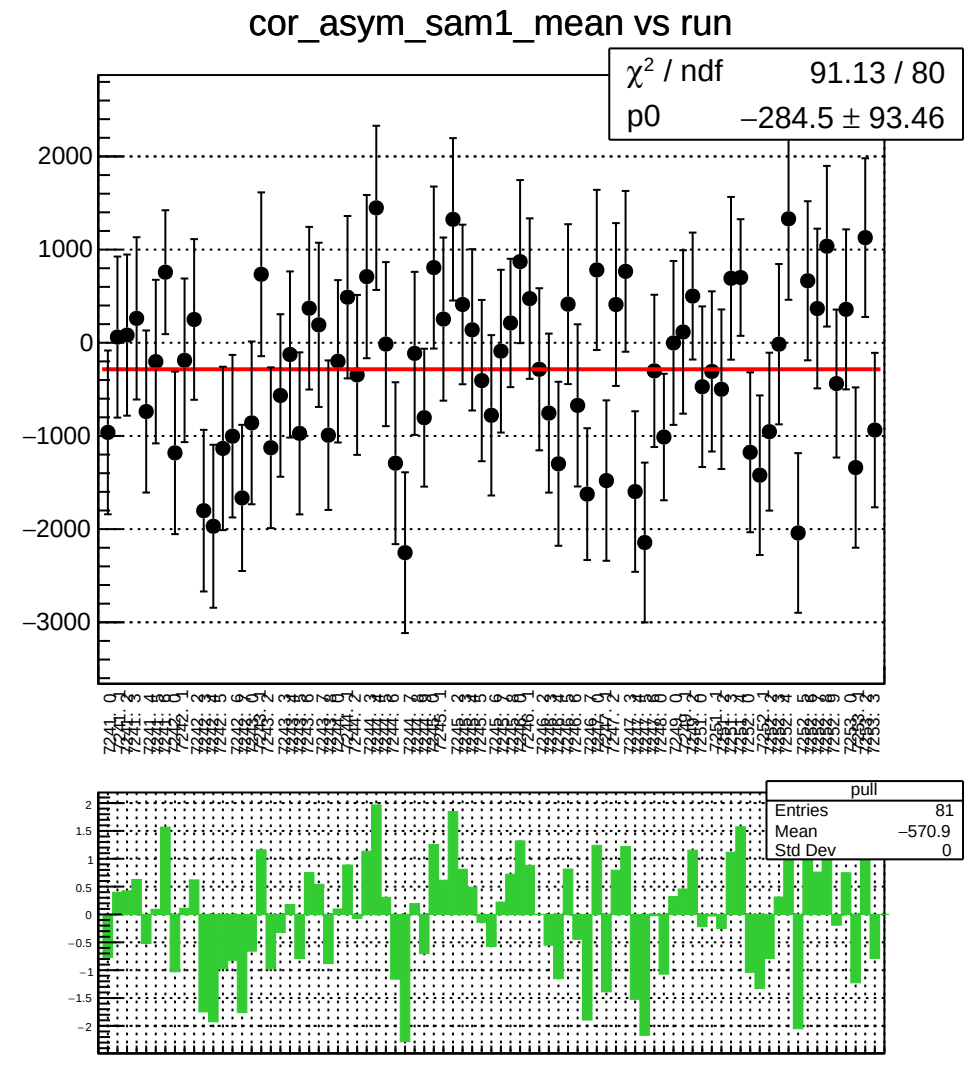

pull1D
Entries 81
Mean −0.003932
Std Dev 1.061
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

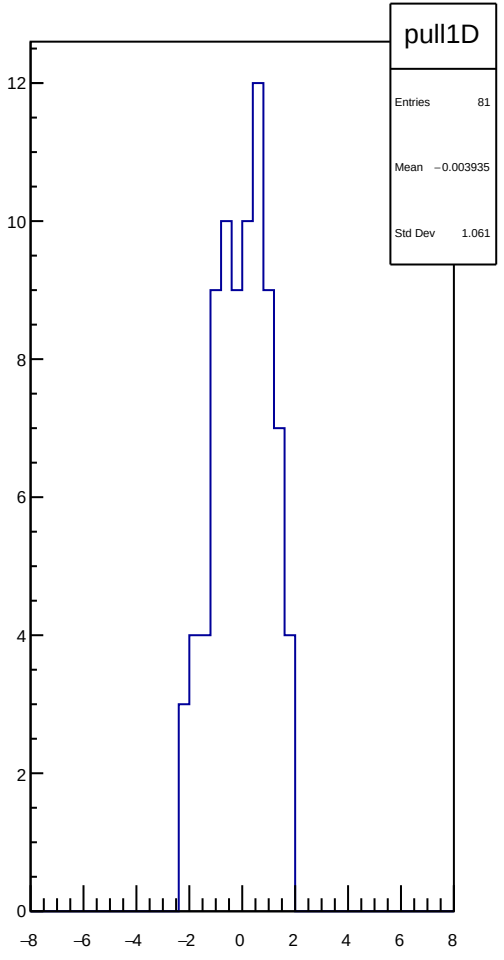

reg_asym_sam1_rms vs run
χ^2 / ndf 179.4 / 80
p0 82.25 ± 0.06608
85
84
83
82
81
80
79

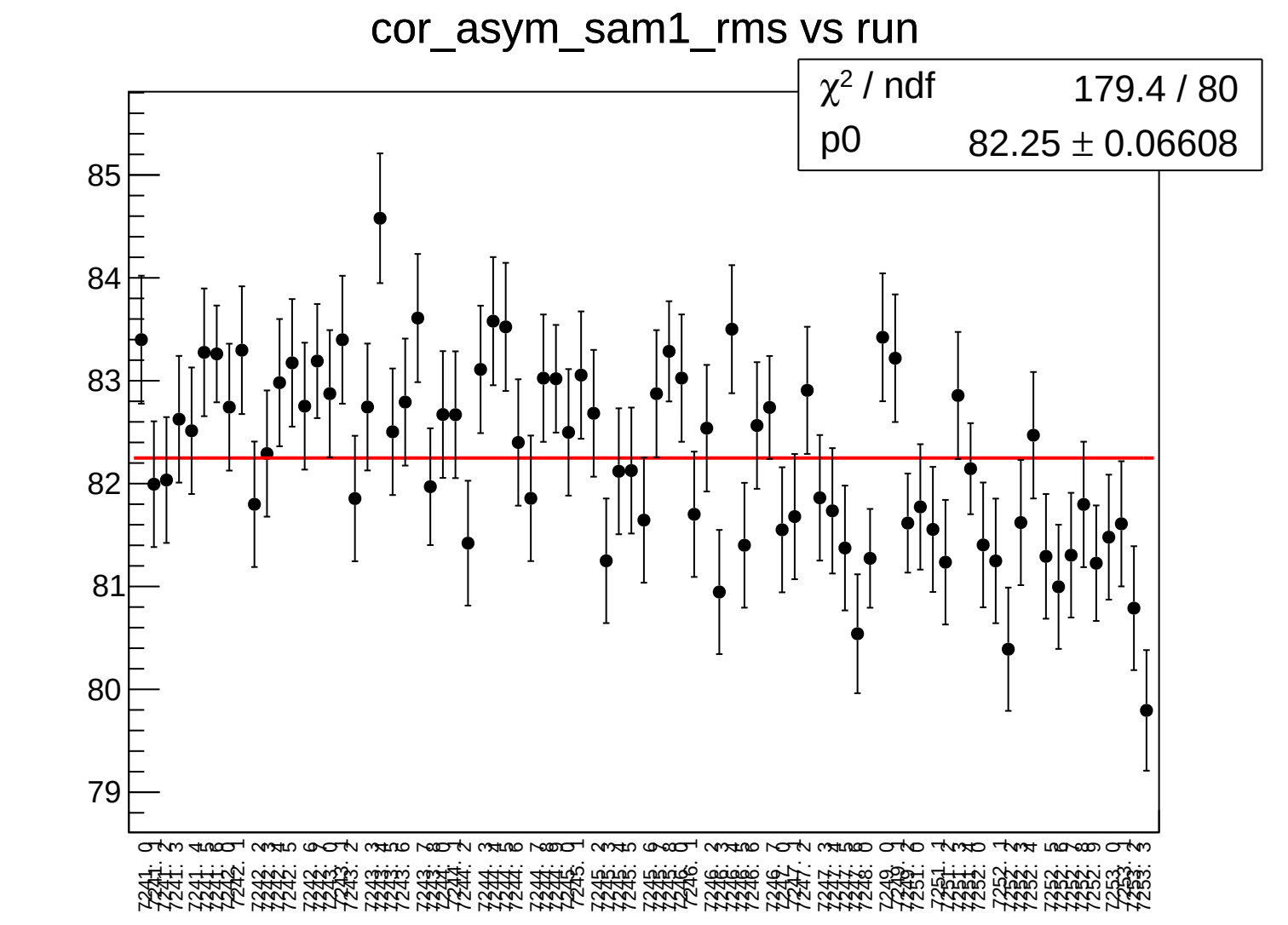

asym_sam1_reg_correction_mean vs run
χ² / ndf 64.75 / 80
p0 −173.9 ± 399.8
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −843.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

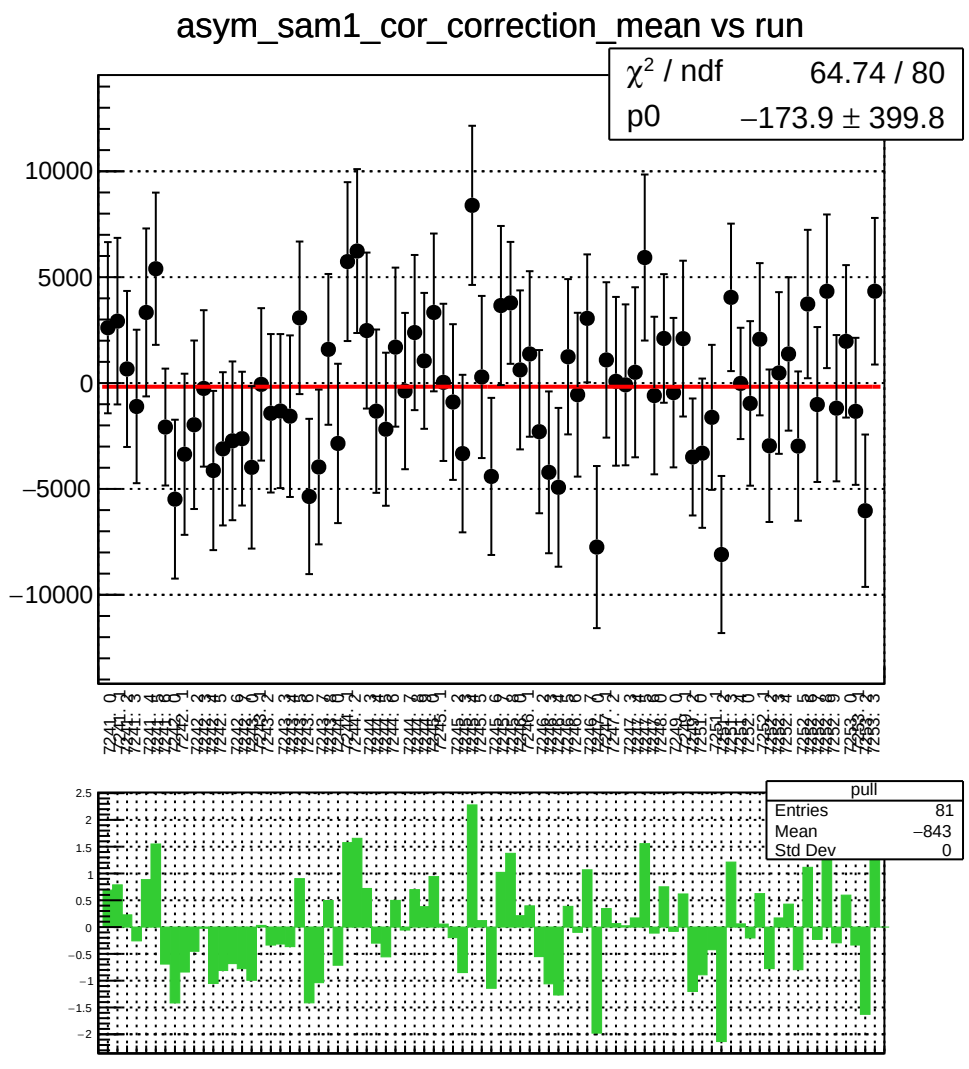

pull1D
Entries 81
Mean −0.001019
Std Dev 0.894
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

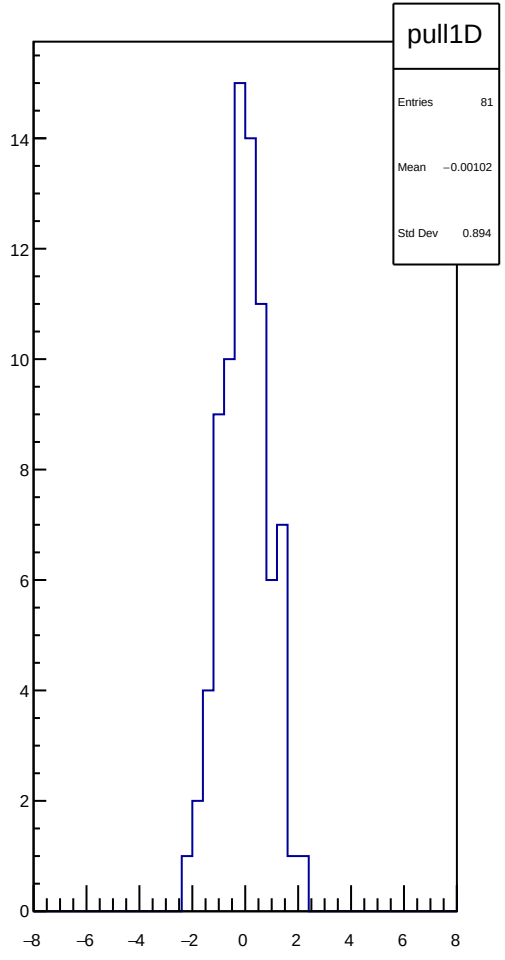

asym_sam1_reg_correction_rms vs run
χ² / ndf 1974 / 80
p0 351.7 ± 0.2827
390
380
370
360
350
340
330
320

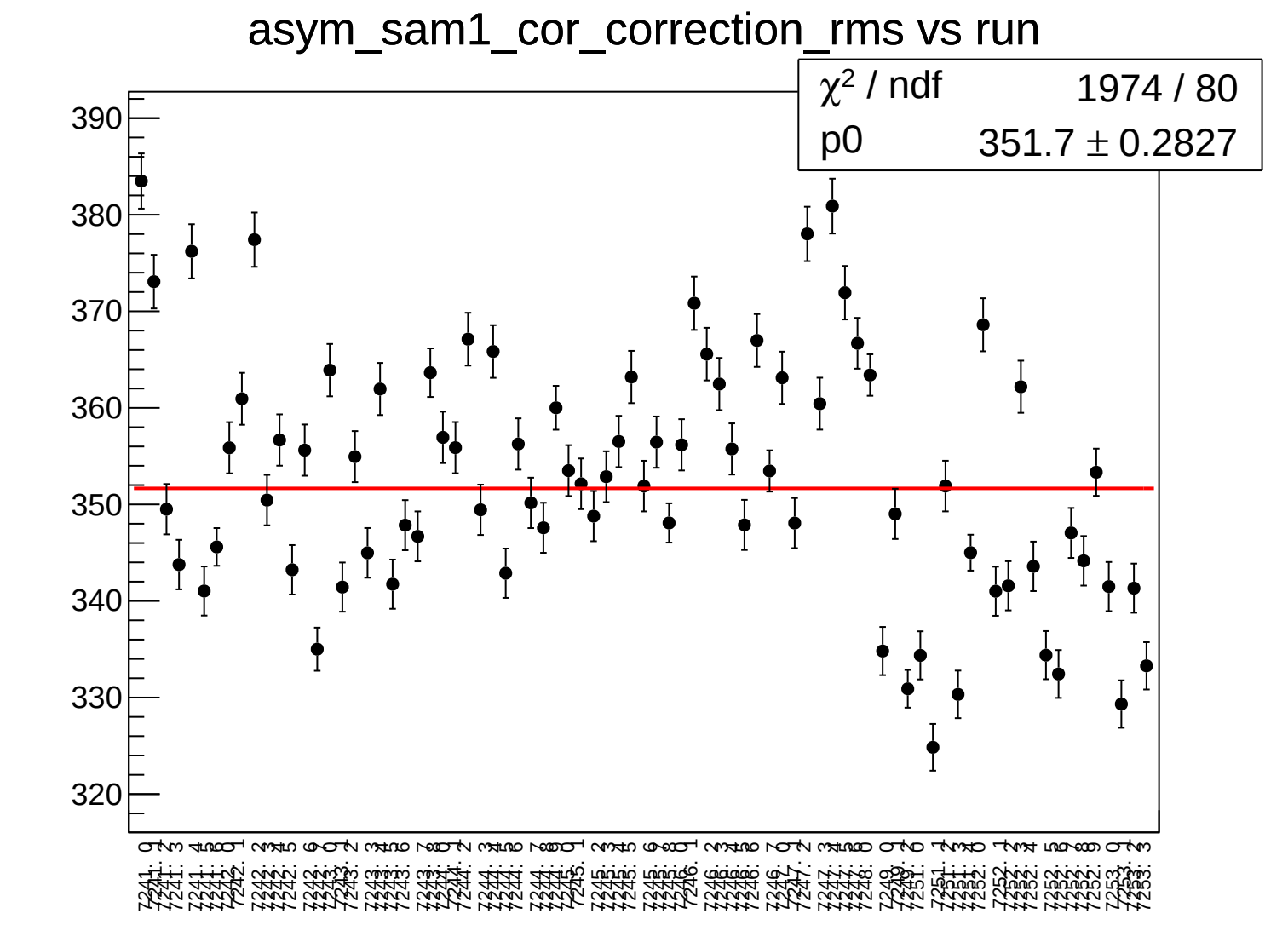

cor_asym_sam1_mean vs run
χ² / ndf 91.13 / 80
p0 −284.5 ± 93.46
2000
1000
0
−1000
−2000
−3000
pull
Entries 81
Mean −570.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

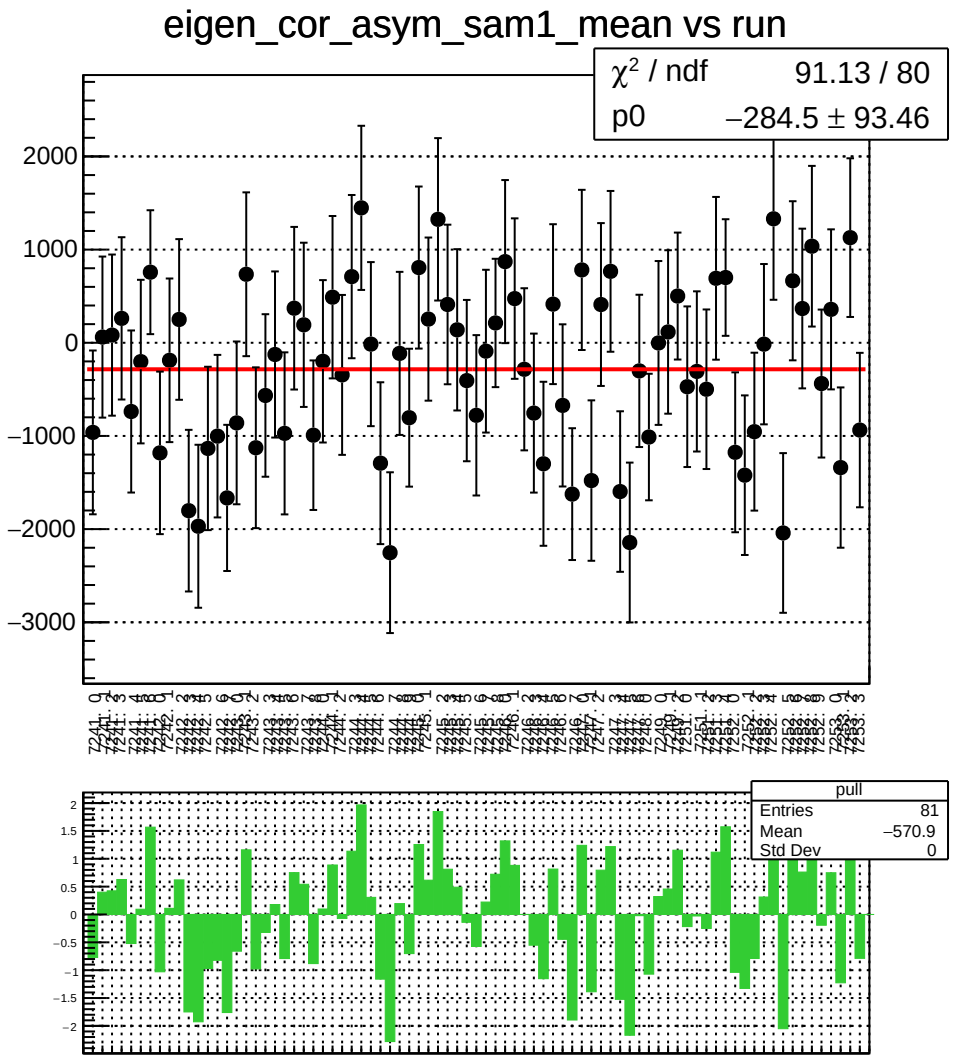

pull1D
Entries 81
Mean −0.003935
Std Dev 1.061
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

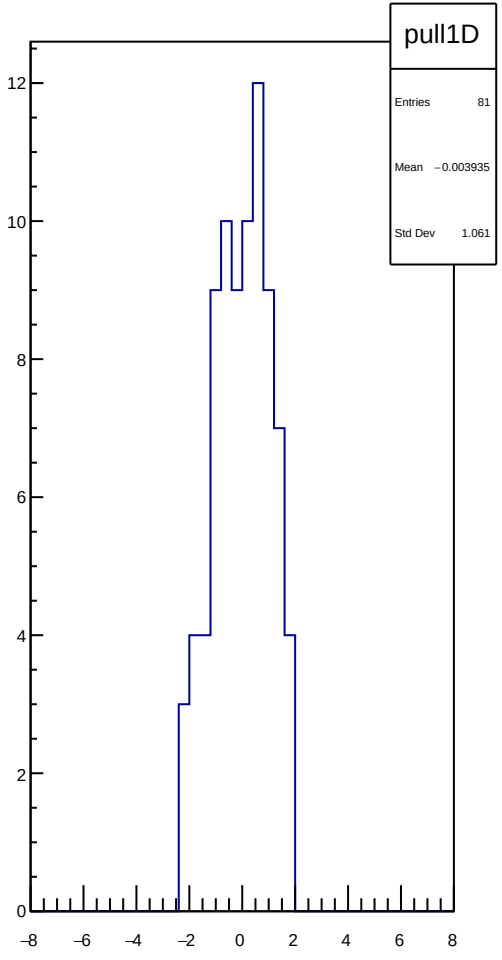

cor_asym_sam1_rms vs run
χ² / ndf 179.4 / 80
p0 82.25 ± 0.06608
85
84
83
82
81
80
79

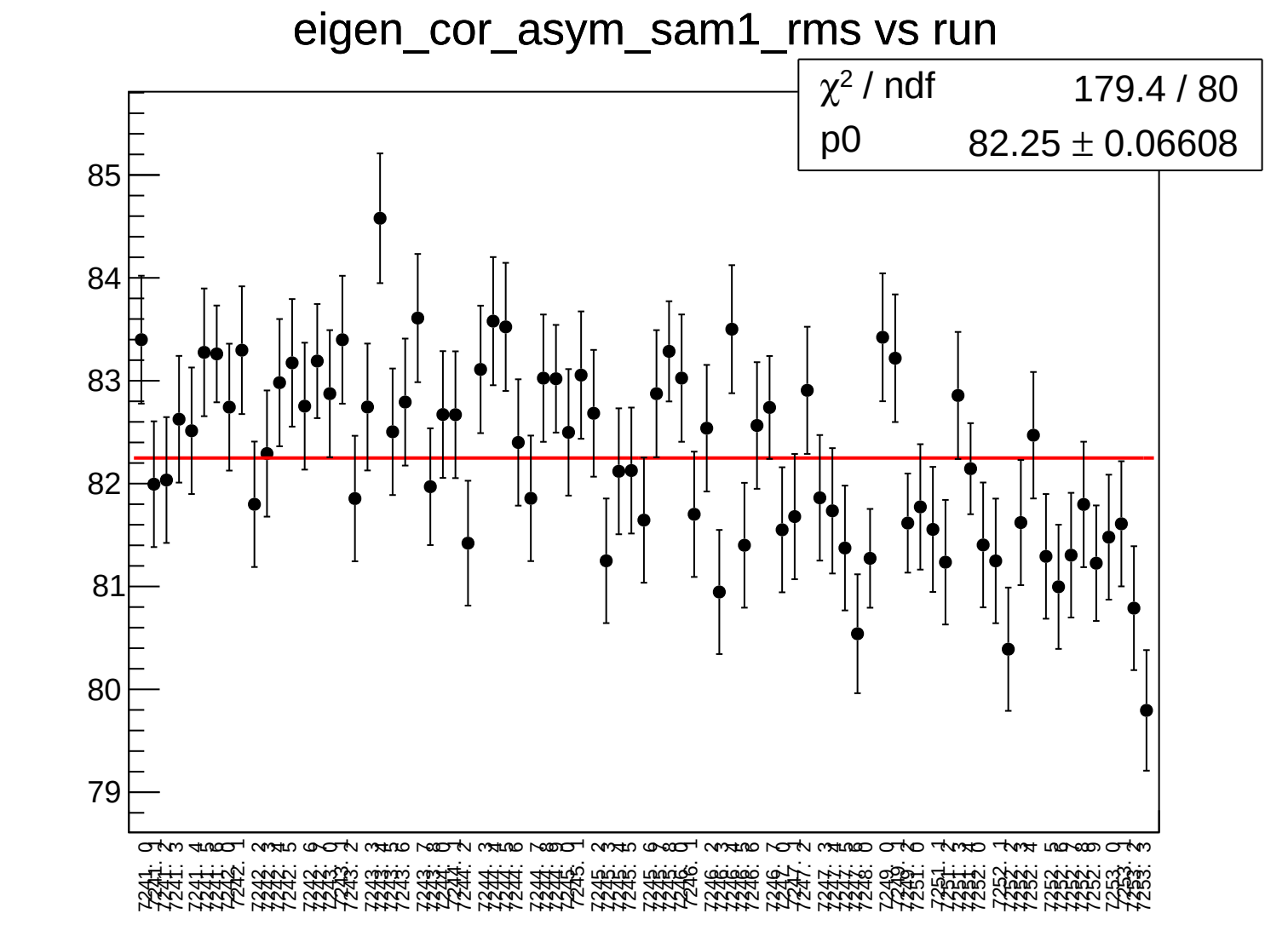

asym_sam1_cor_correction_mean vs run
χ² / ndf 64.74 / 80
p0 −173.9 ± 399.8
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −843
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

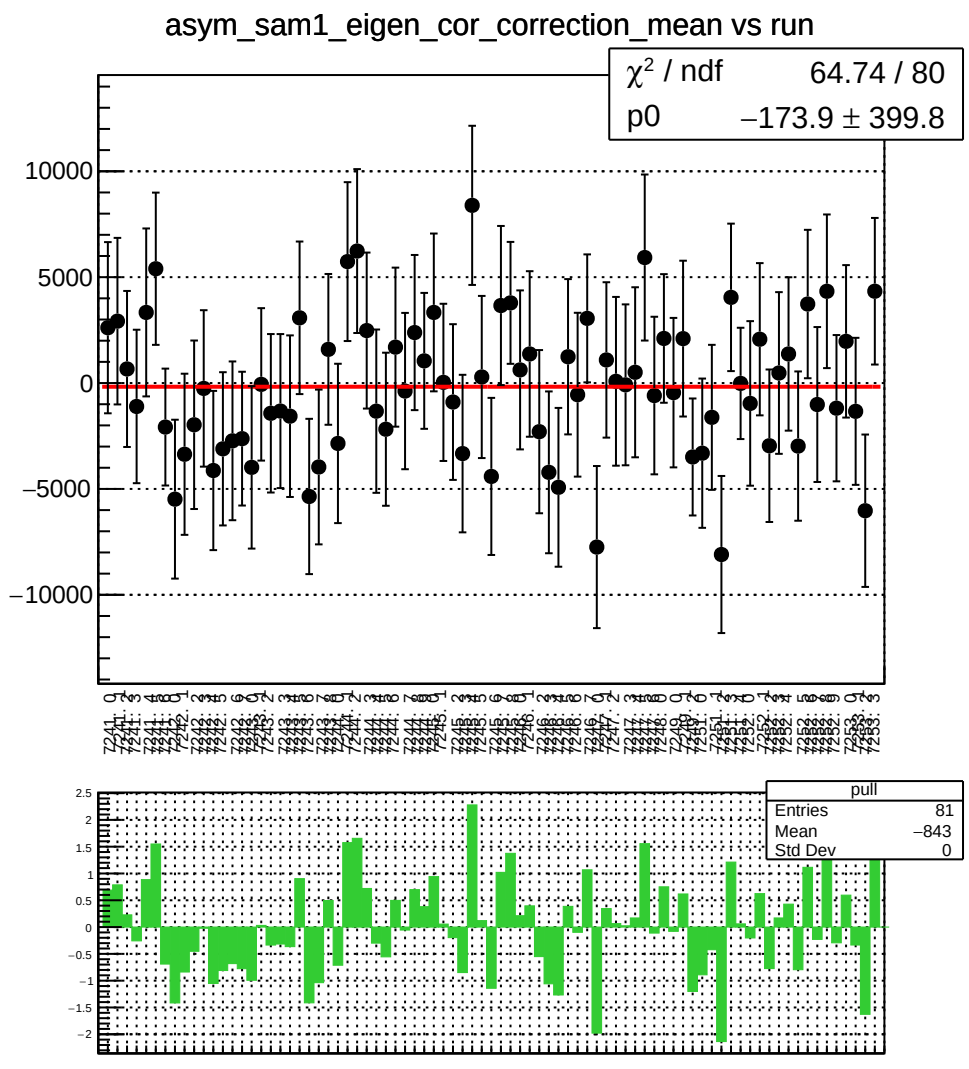

pull1D
Entries 81
Mean −0.00102
Std Dev 0.894
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

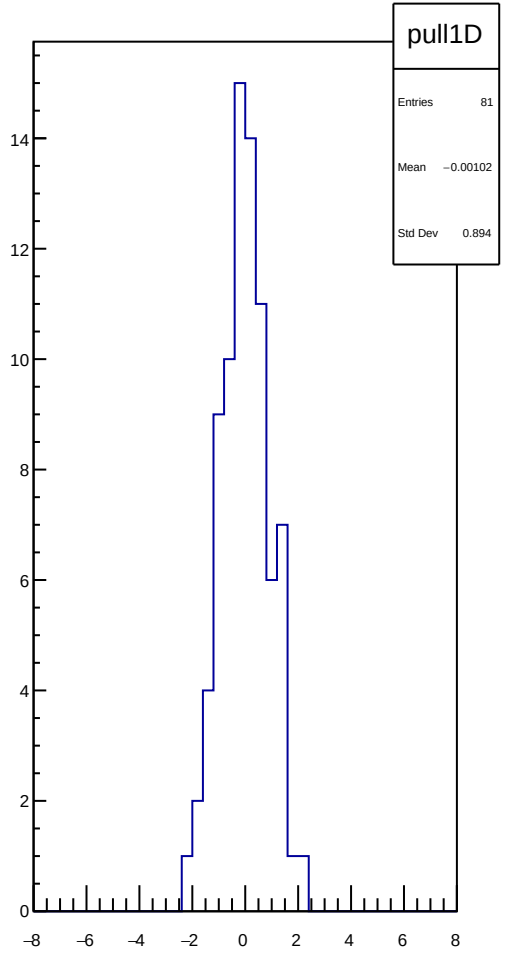

asym_sam1_cor_correction_rms vs run
χ² / ndf 1974 / 80
p0 351.7 ± 0.2827
390
380
370
360
350
340
330
320

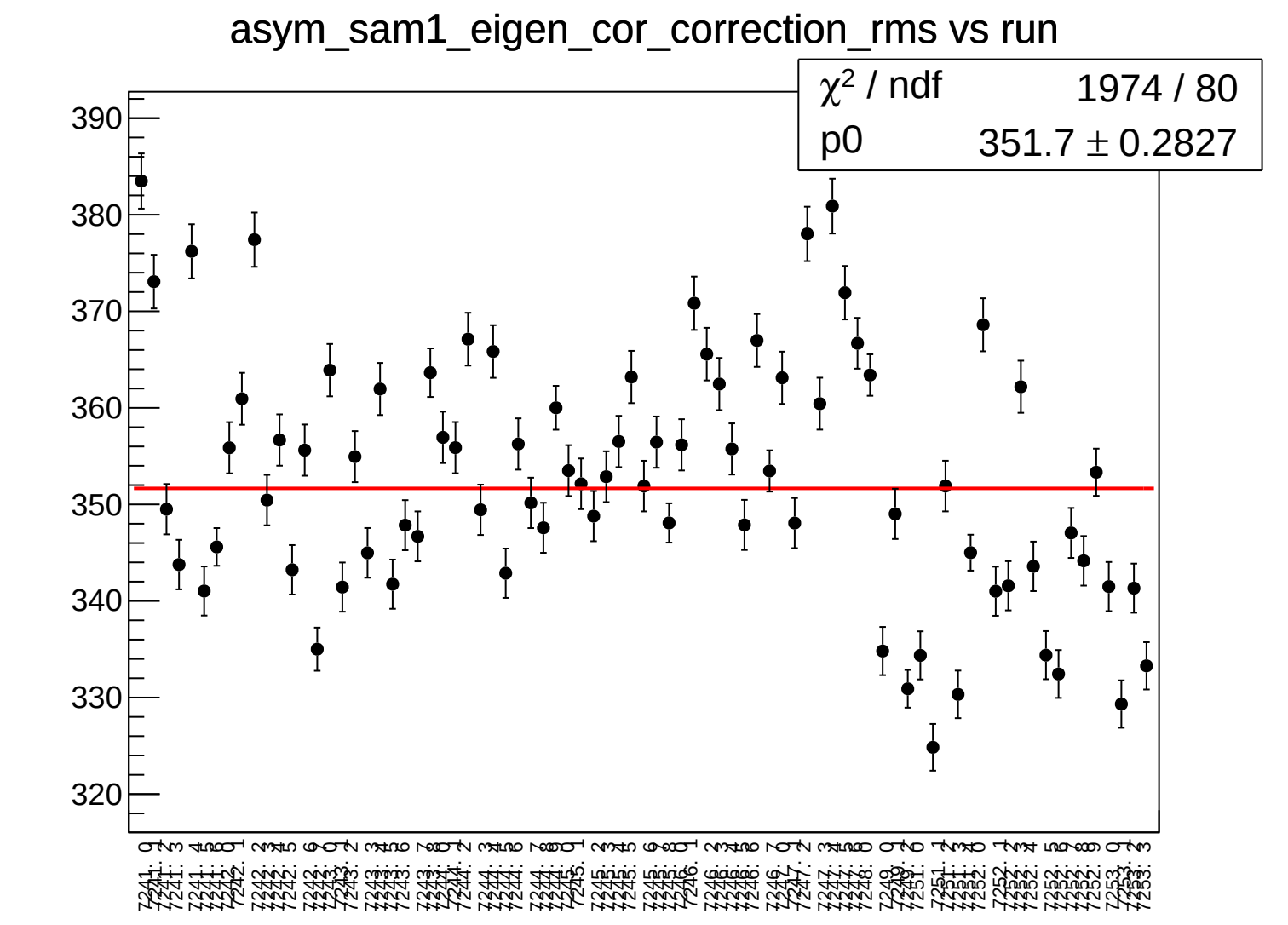

eigen_cor_asym_sam1_mean vs run
χ² / ndf 91.13 / 80
p0 −284.5 ± 93.46
2000
1000
0
−1000
−2000
−3000
pull
Entries 81
Mean −570.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

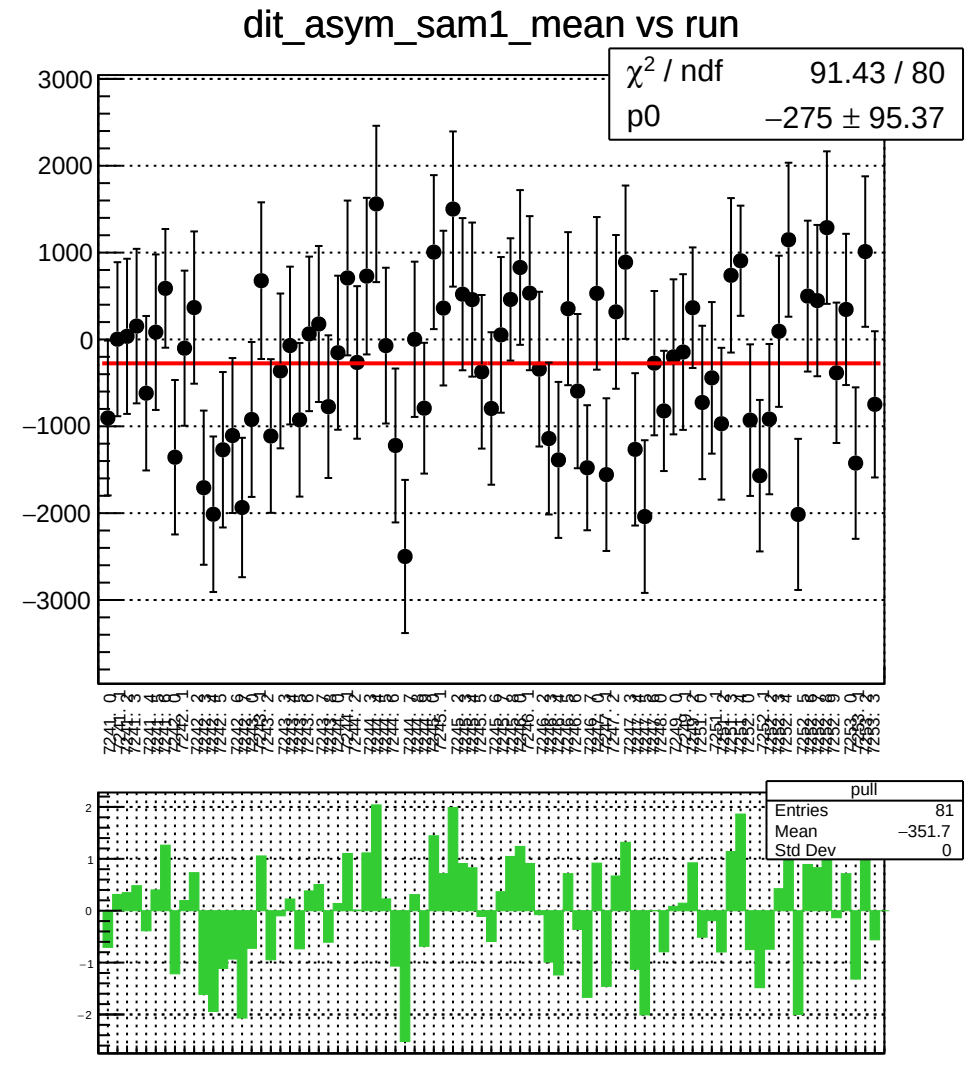

pull1D
Entries 81
Mean −0.003935
Std Dev 1.061
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

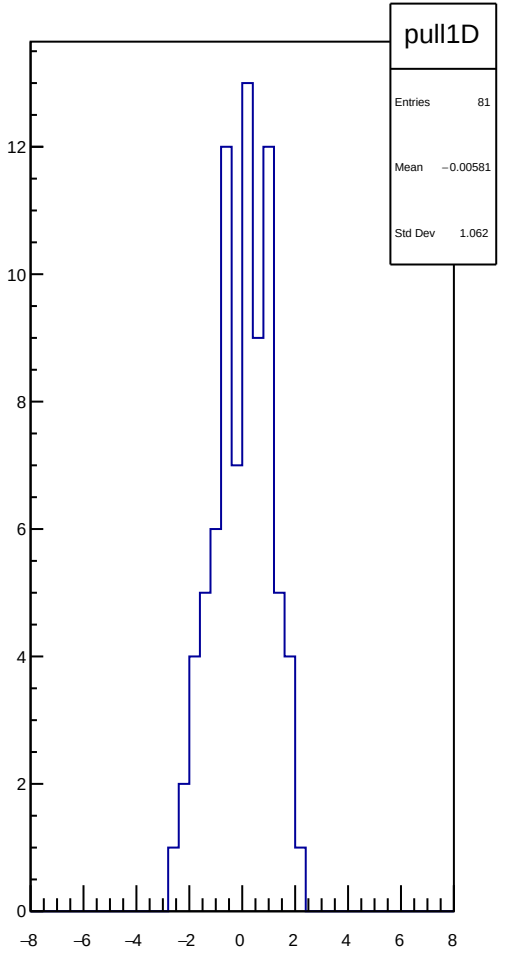

eigen_cor_asym_sam1_rms vs run
χ² / ndf 179.4 / 80
p0 82.25 ± 0.06608
85
84
83
82
81
80
79

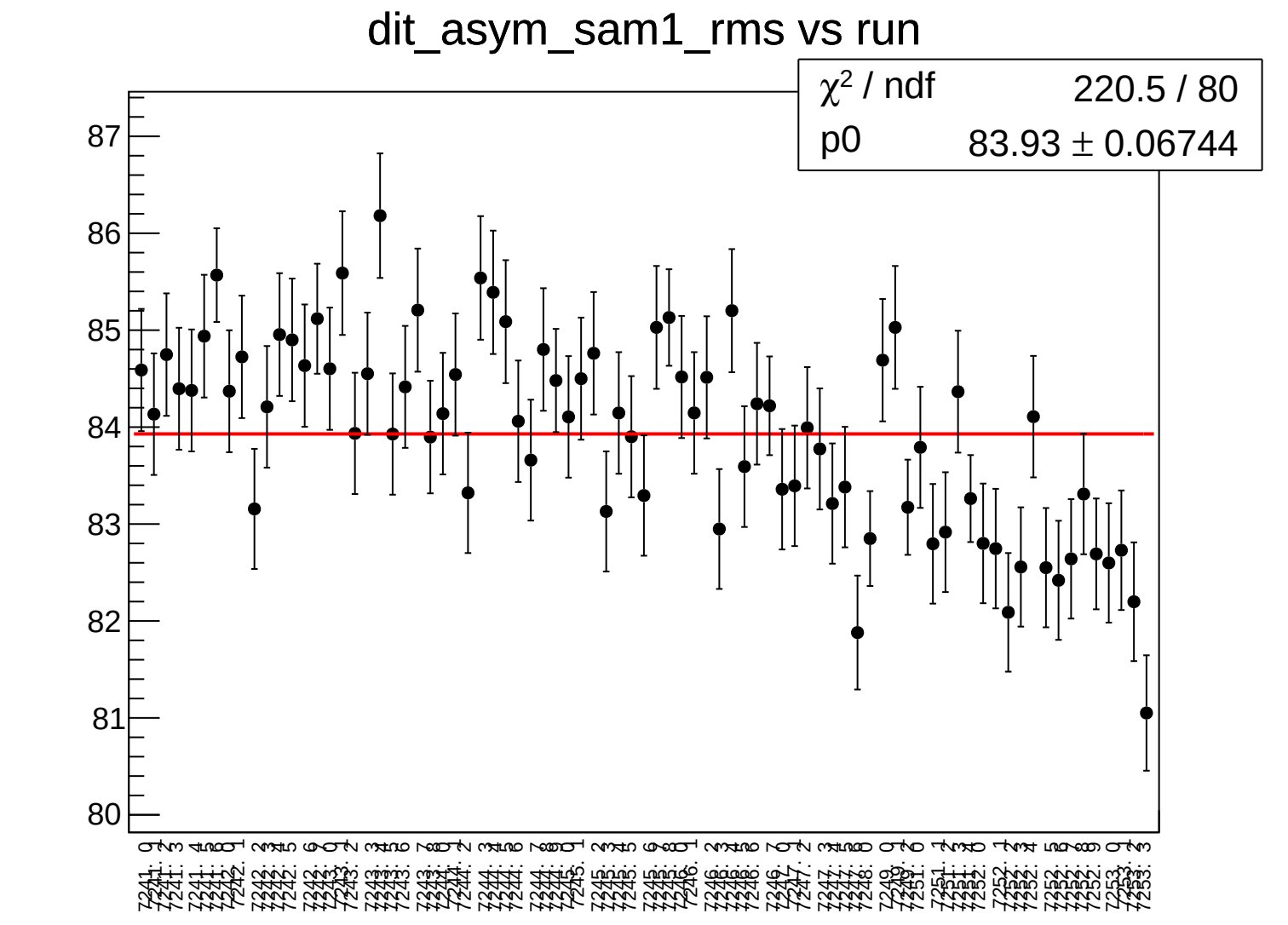

asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 64.74 / 80
p0 −173.9 ± 399.8
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −843
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

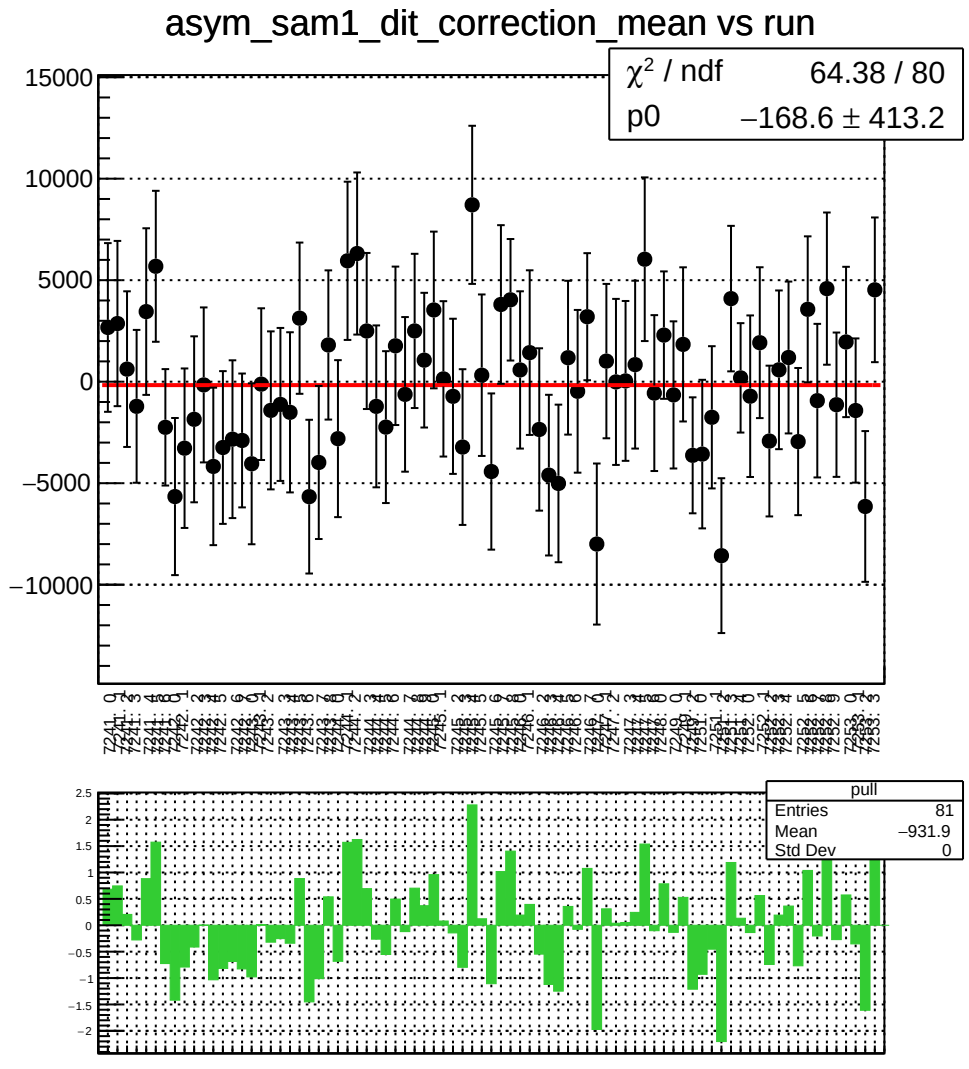

pull1D
Entries 81
Mean −0.00102
Std Dev 0.894
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

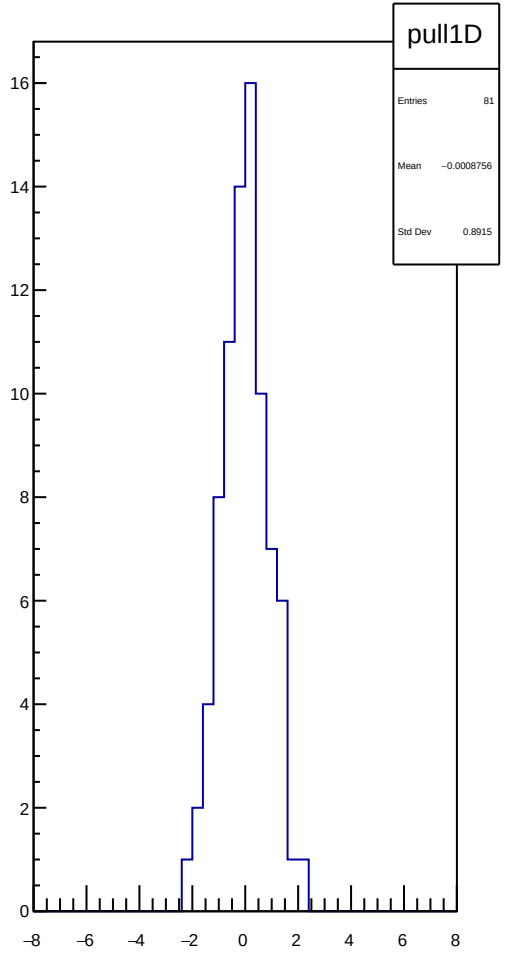

asym_sam1_eigen_cor_correction_rms vs run
χ² / ndf 1974 / 80
p0 351.7 ± 0.2827
390
380
370
360
350
340
330
320

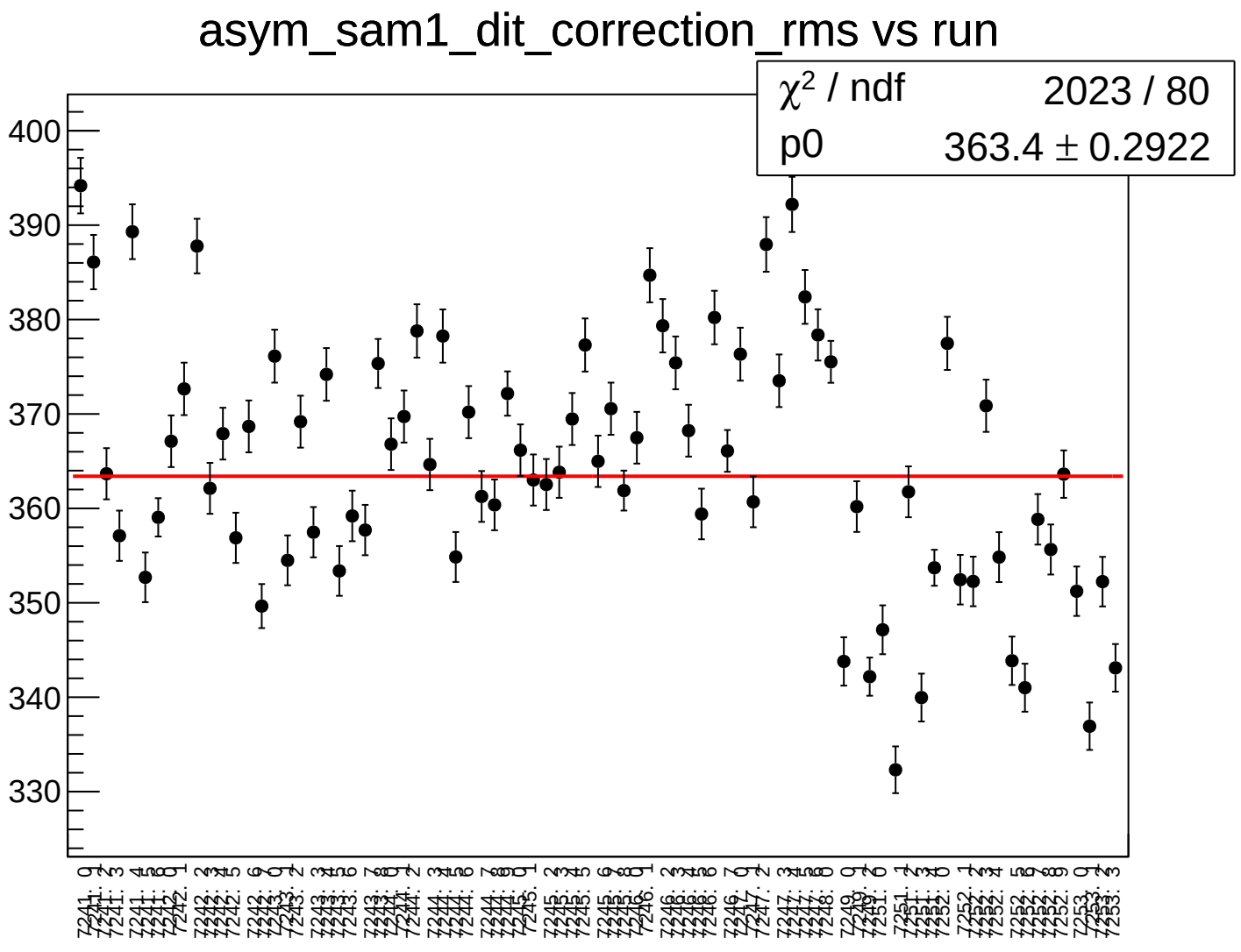

dit_asym_sam1_mean vs run
χ² / ndf 91.43 / 80
p0 −275 ± 95.37
pull
Entries 81
Mean −351.7
Std Dev 0

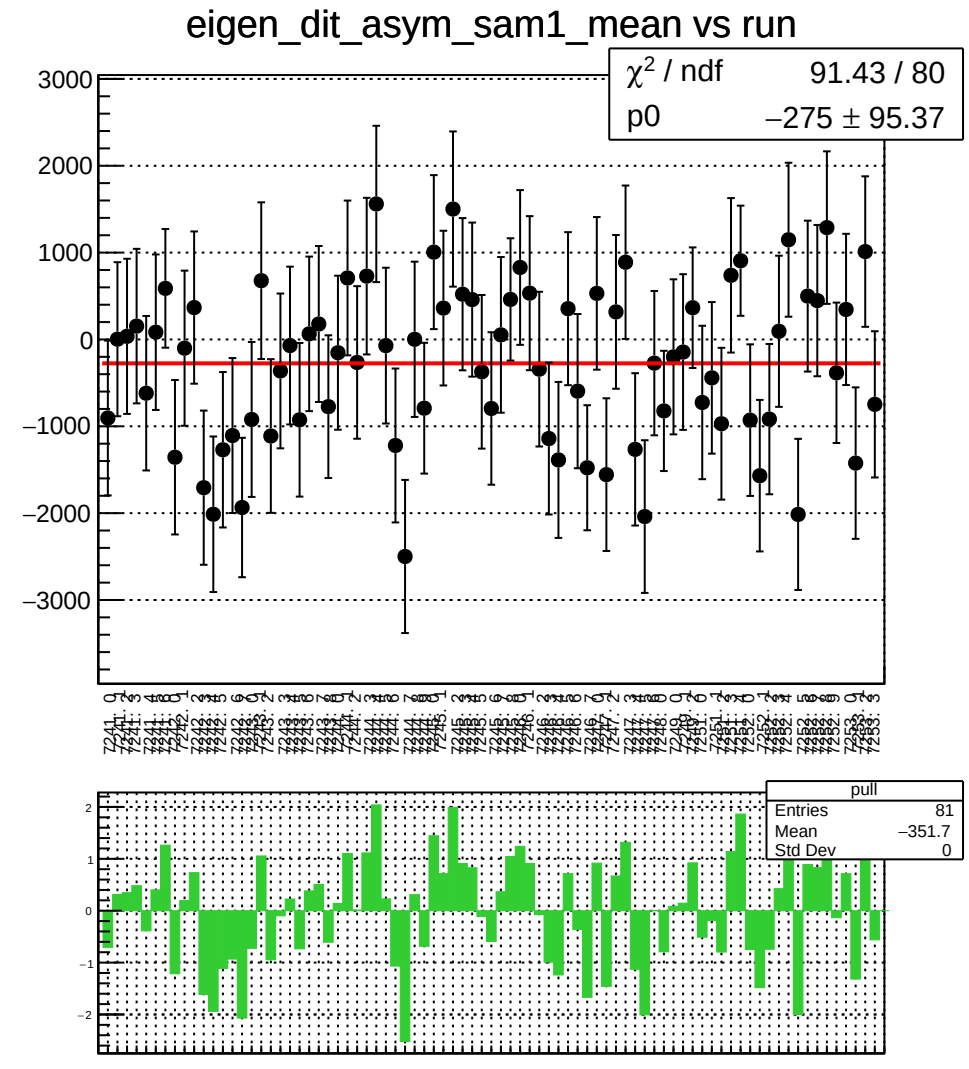

pull1D
Entries 81
Mean −0.00581
Std Dev 1.062

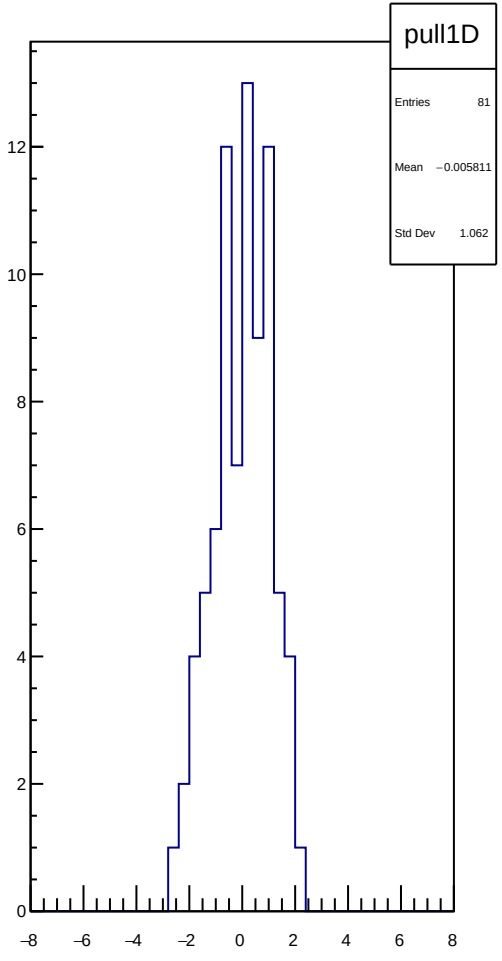

dit_asym_sam1_rms vs run
χ^2 / ndf 220.5 / 80
p0 83.93 ± 0.06744
87
86
85
84
83
82
81
80

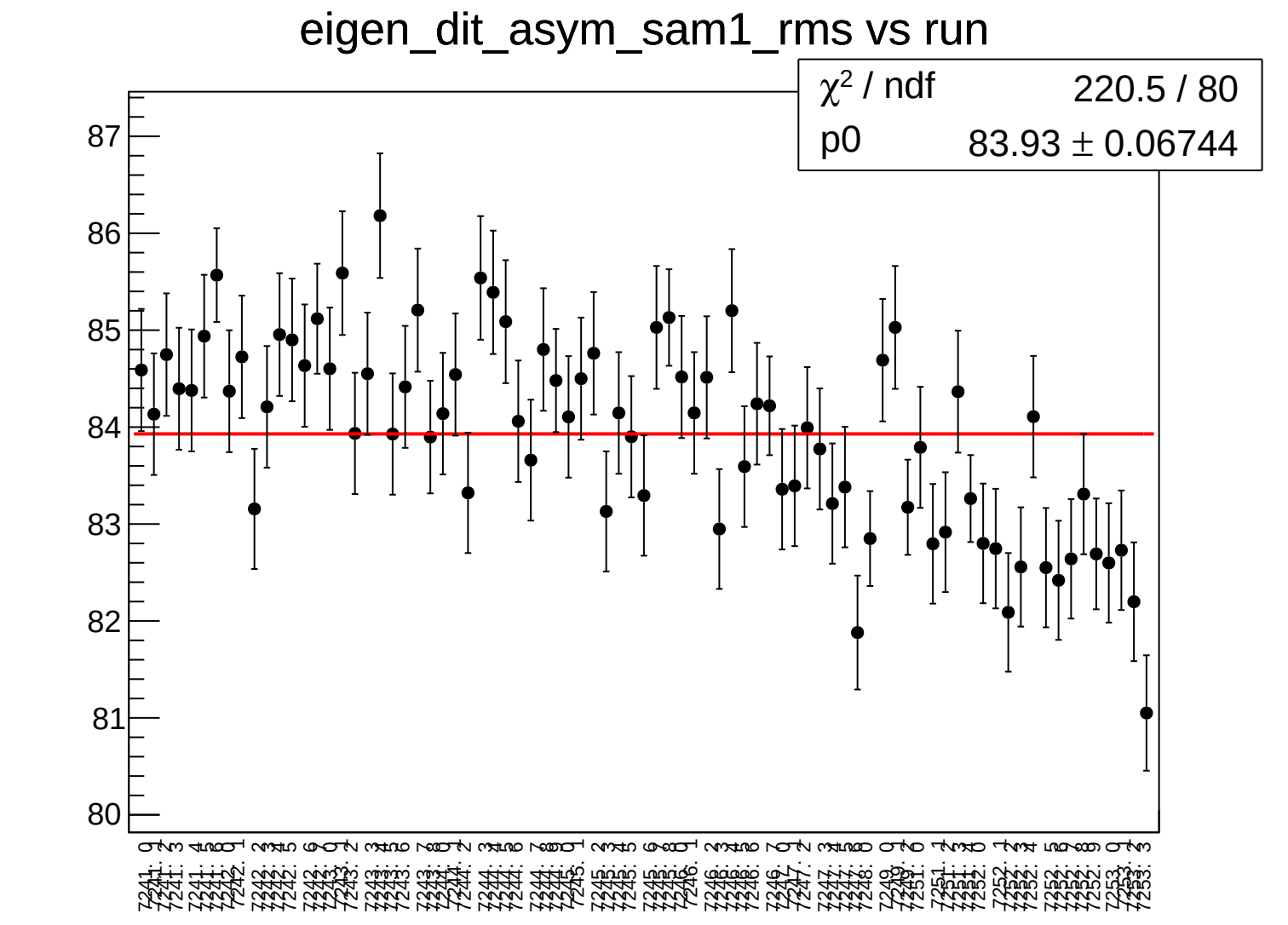

asym_sam1_dit_correction_mean vs run
χ² / ndf 64.38 / 80
p0 −168.6 ± 413.2
15000
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −931.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

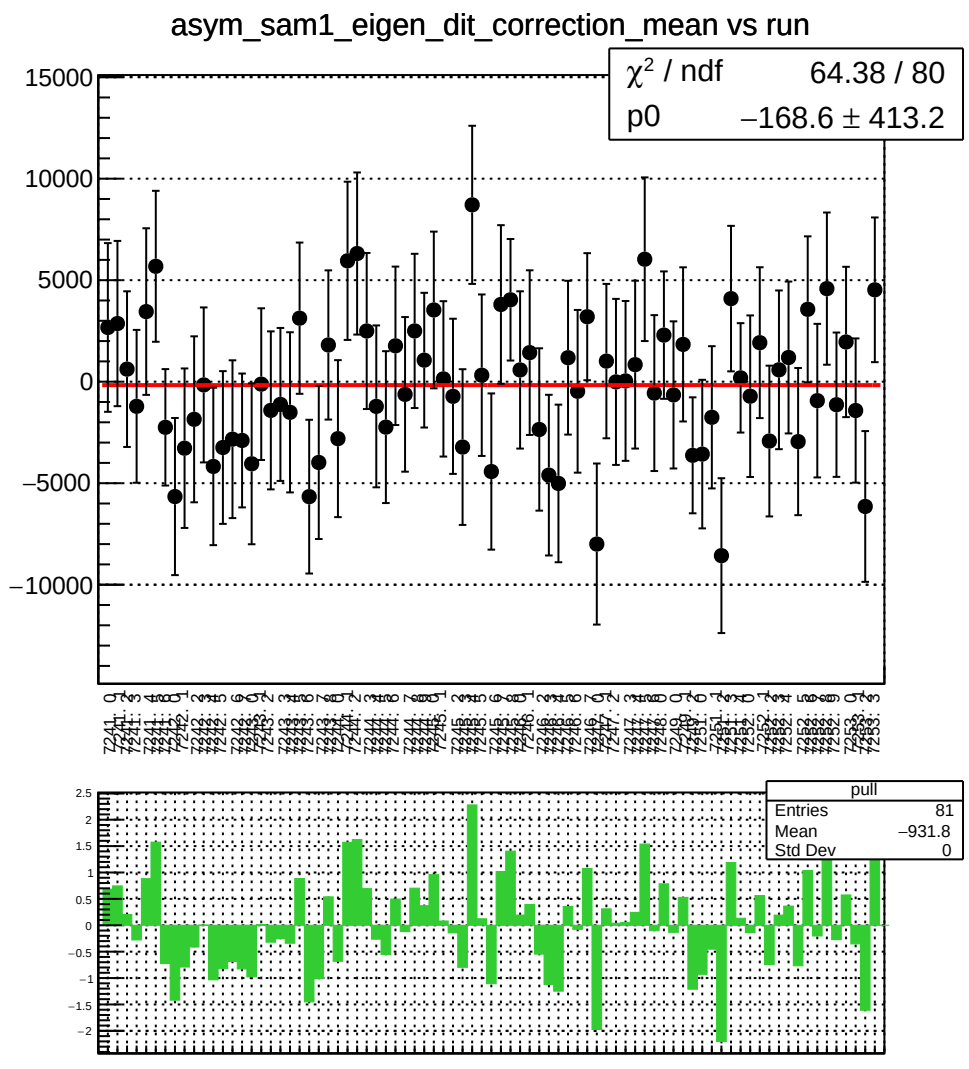

pull1D
Entries 81
Mean −0.0008756
Std Dev 0.8915
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

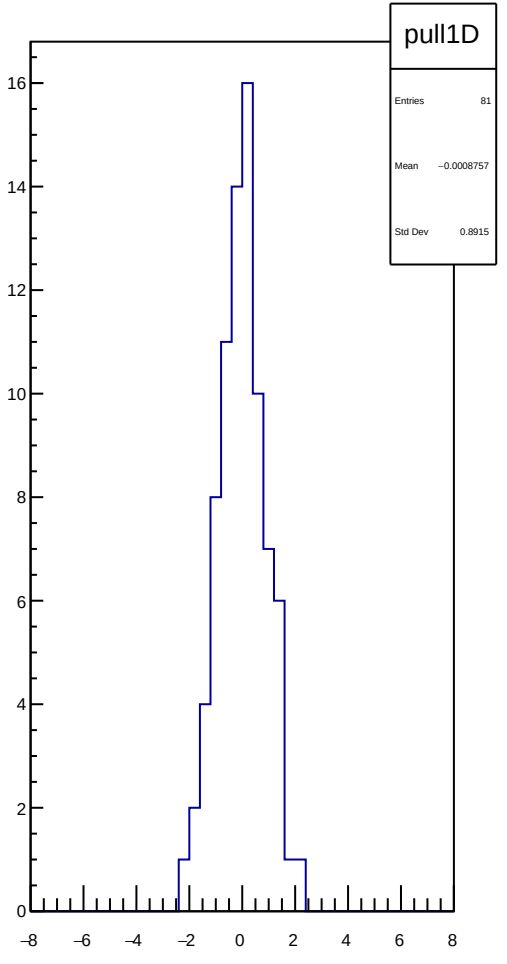

asym_sam1_dit_correction_rms vs run
χ² / ndf 2023 / 80
p0 363.4 ± 0.2922
400
390
380
370
360
350
340
330

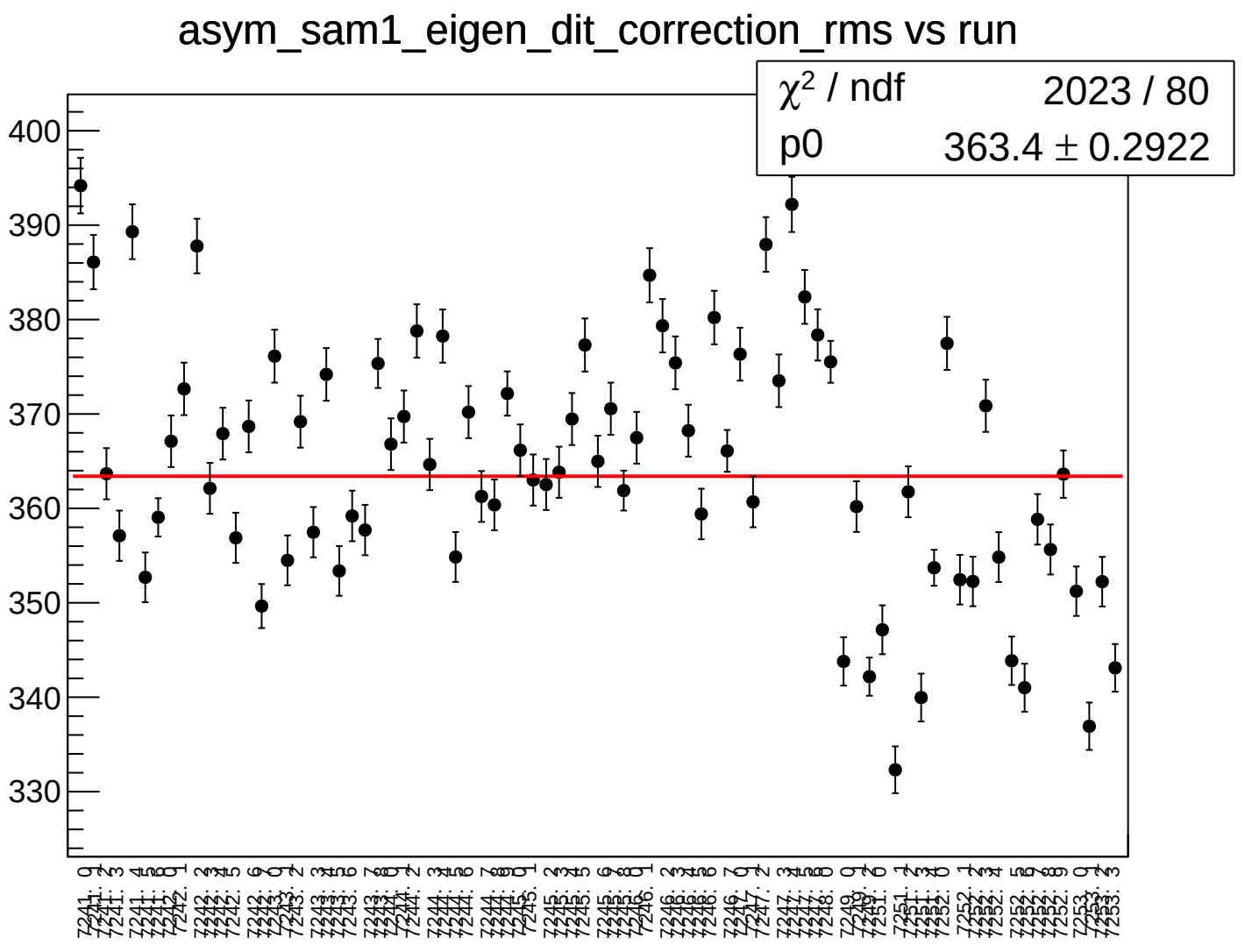

eigen_dit_asym_sam1_mean vs run
χ² / ndf 91.43 / 80
p0 −275 ± 95.37
pull
Entries 81
Mean −351.7
Std Dev 0

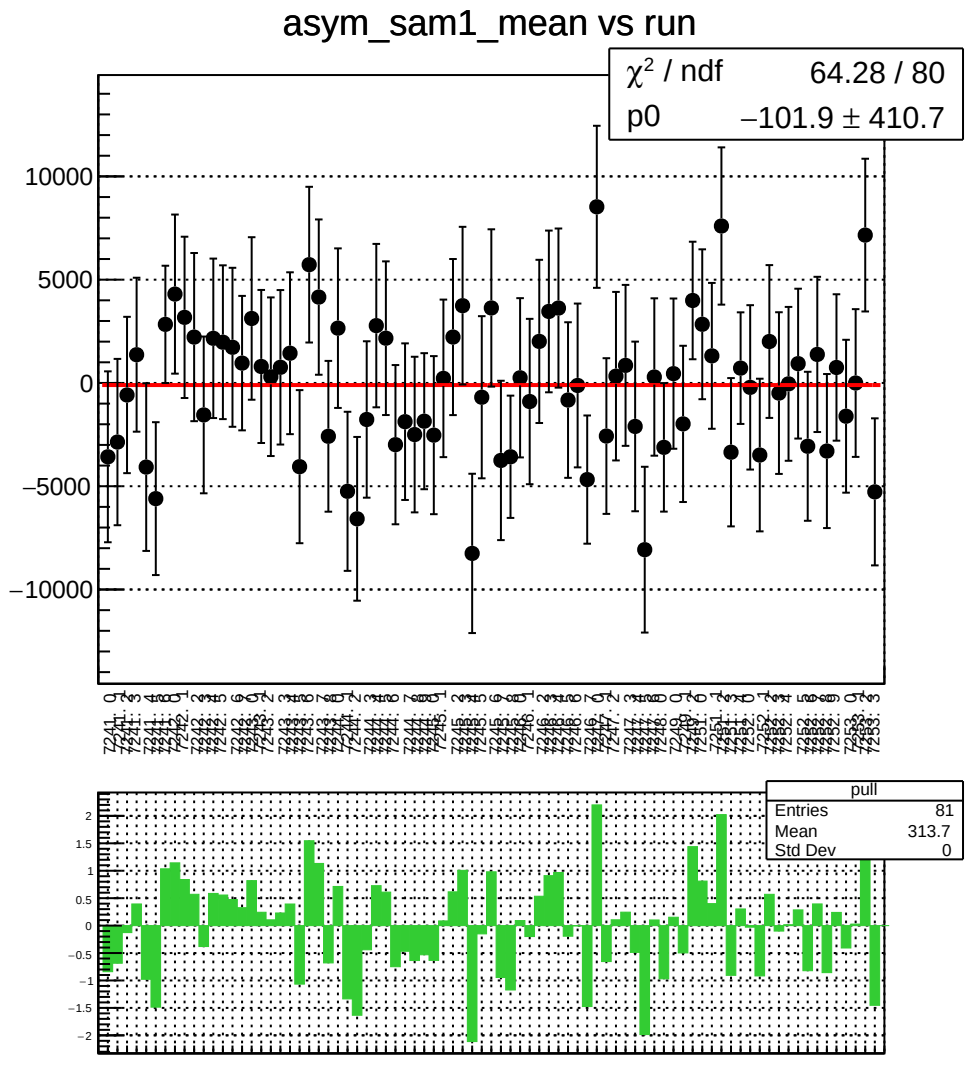

pull1D
Entries 81
Mean −0.005811
Std Dev 1.062

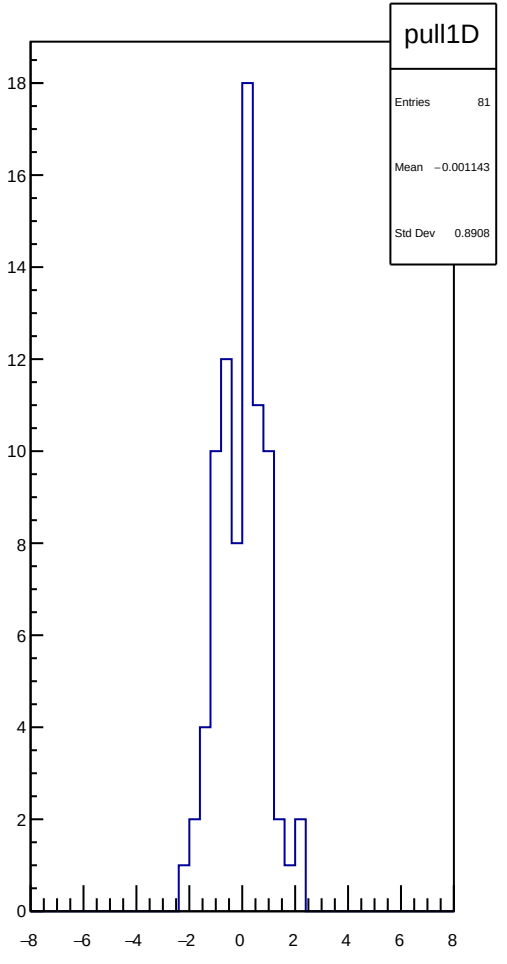

eigen_dit_asym_sam1_rms vs run
χ^2 / ndf 220.5 / 80
p0 83.93 ± 0.06744
87
86
85
84
83
82
81
80

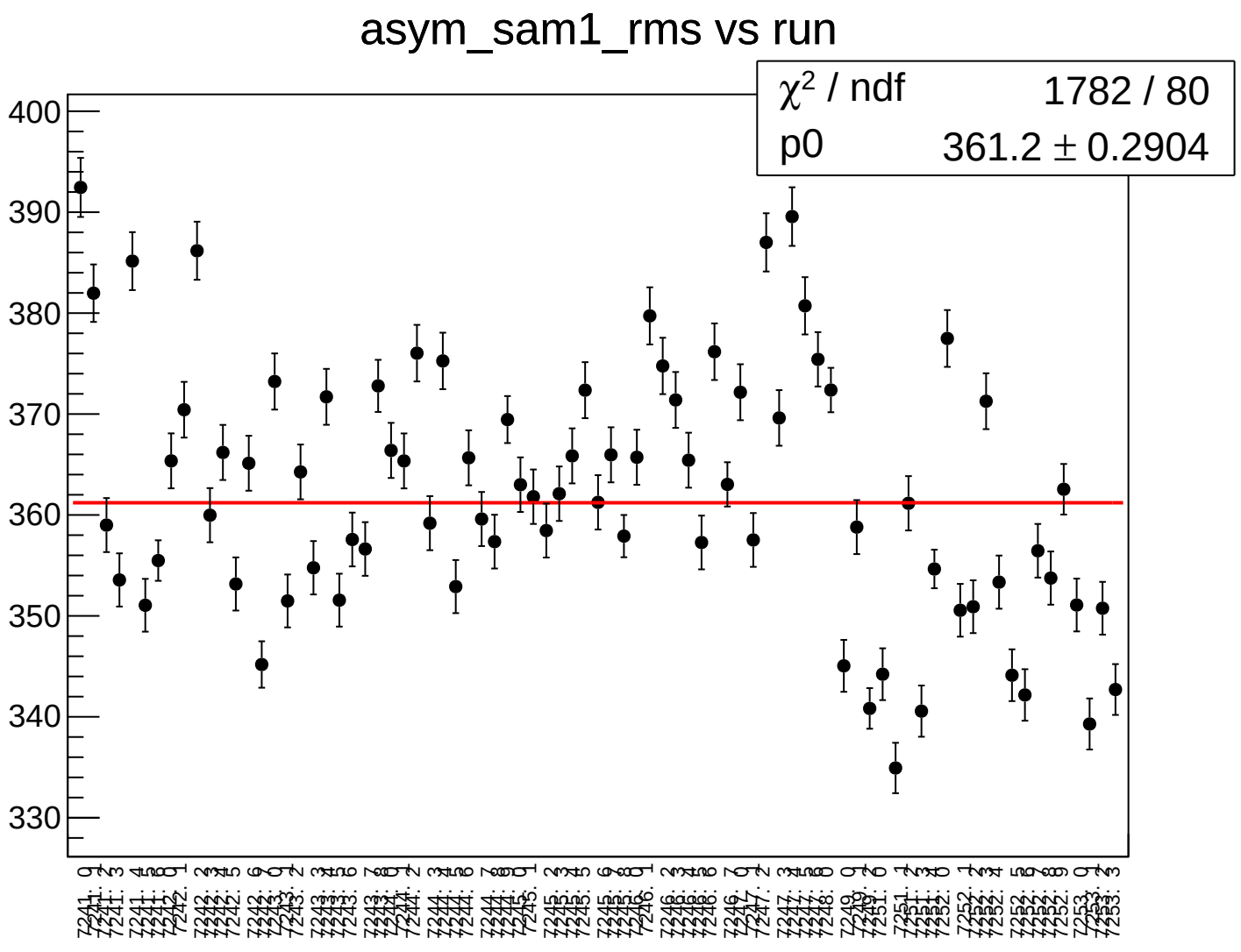

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 64.38 / 80
p0 −168.6 ± 413.2
15000
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −931.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

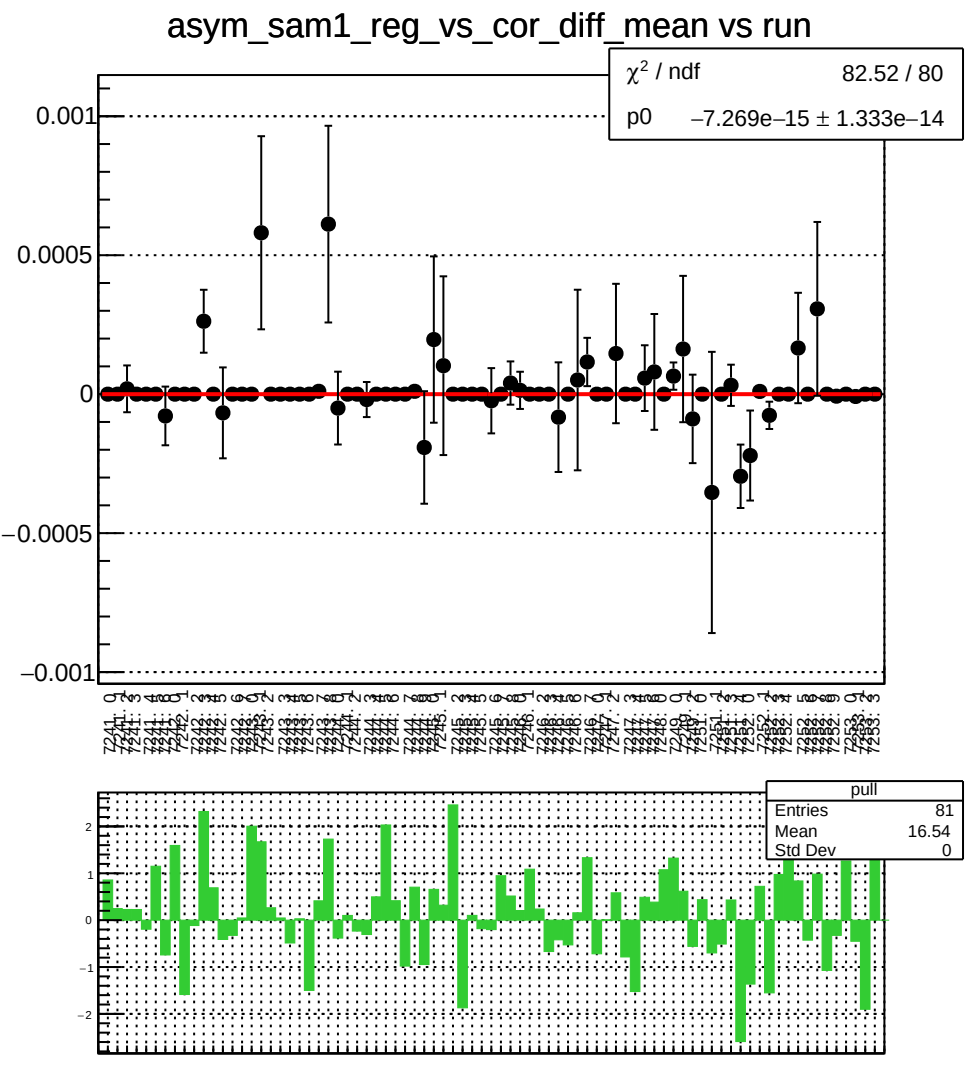

pull1D
Entries 81
Mean −0.0008757
Std Dev 0.8915
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

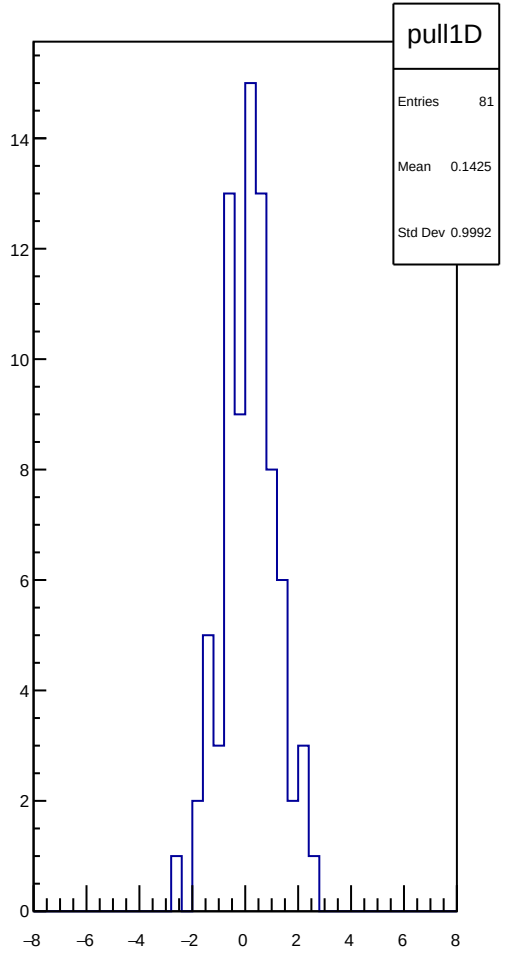

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 2023 / 80
p0 363.4 ± 0.2922
400
390
380
370
360
350
340
330

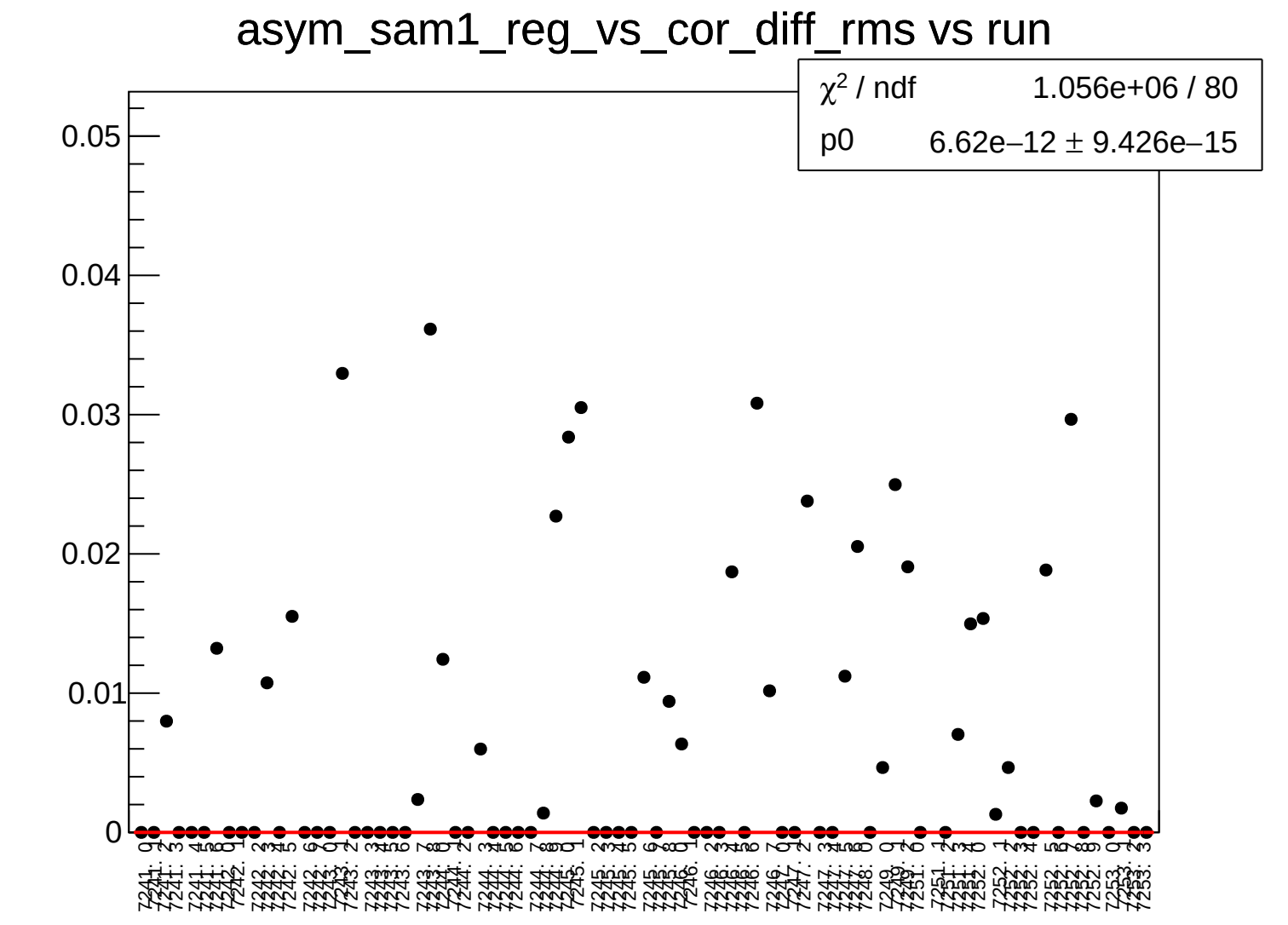

asym_sam1_mean vs run
χ² / ndf 64.28 / 80
p0 −101.9 ± 410.7
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 313.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

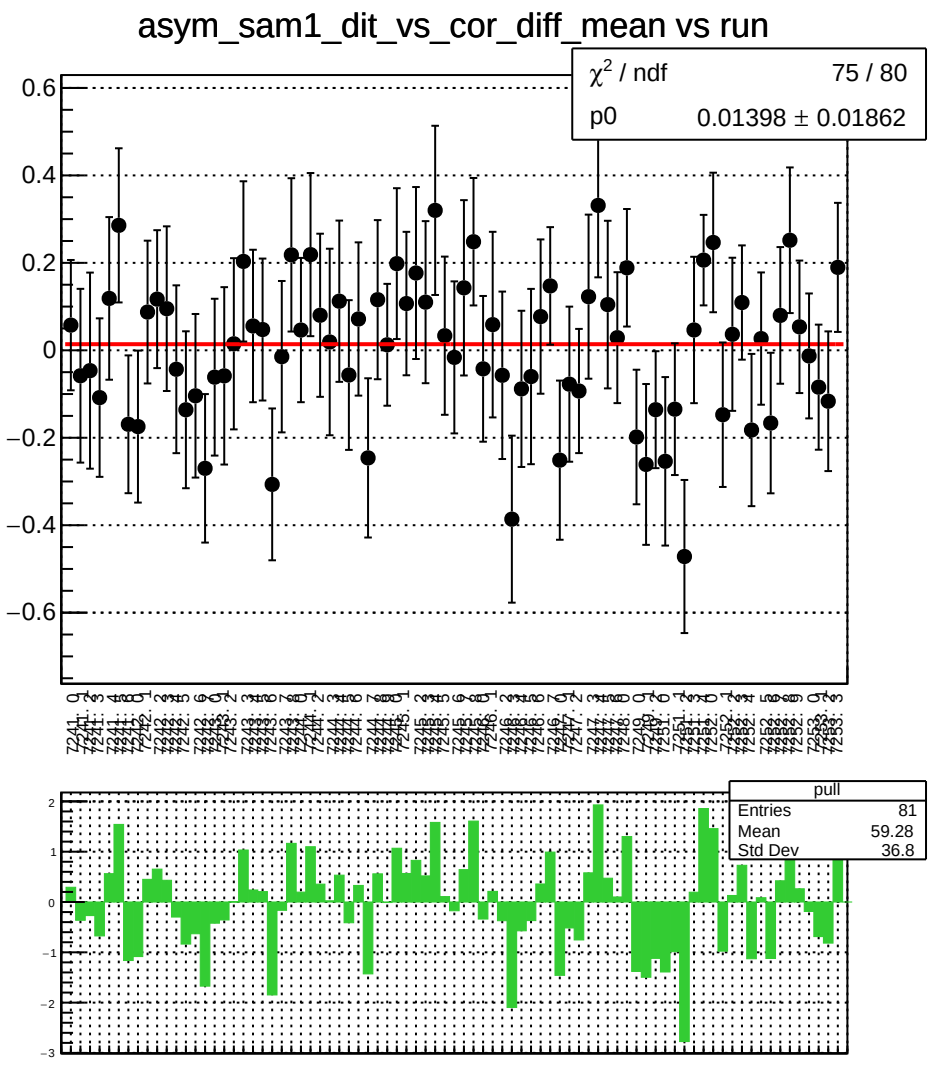

pull1D
Entries 81
Mean −0.001143
Std Dev 0.8908
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

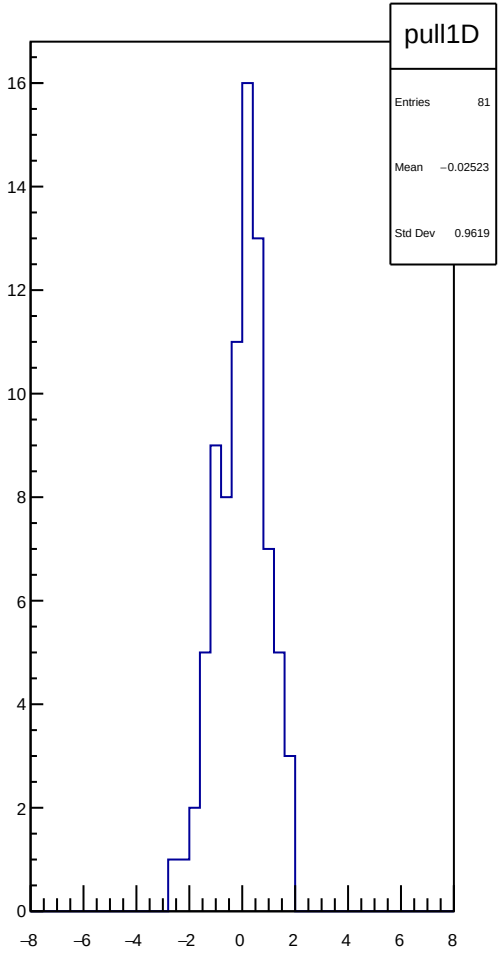

asym_sam1_rms vs run
χ² / ndf 1782 / 80
p0 361.2 ± 0.2904
400
390
380
370
360
350
340
330

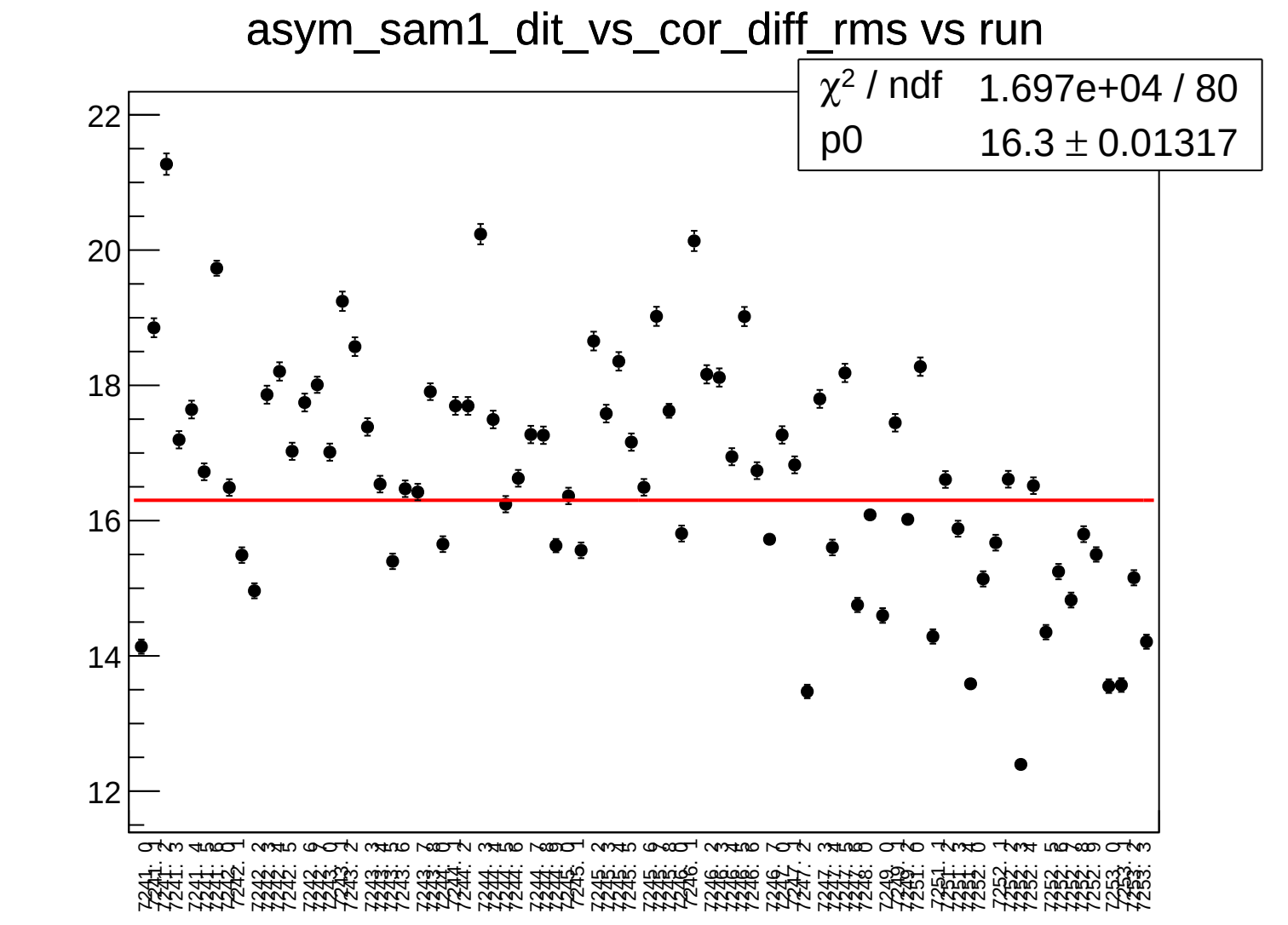

asym_sam1_reg_vs_cor_diff_mean vs run
χ² / ndf 82.52 / 80
p0 −7.269e−15 ± 1.333e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 81
Mean 16.54
Std Dev 0

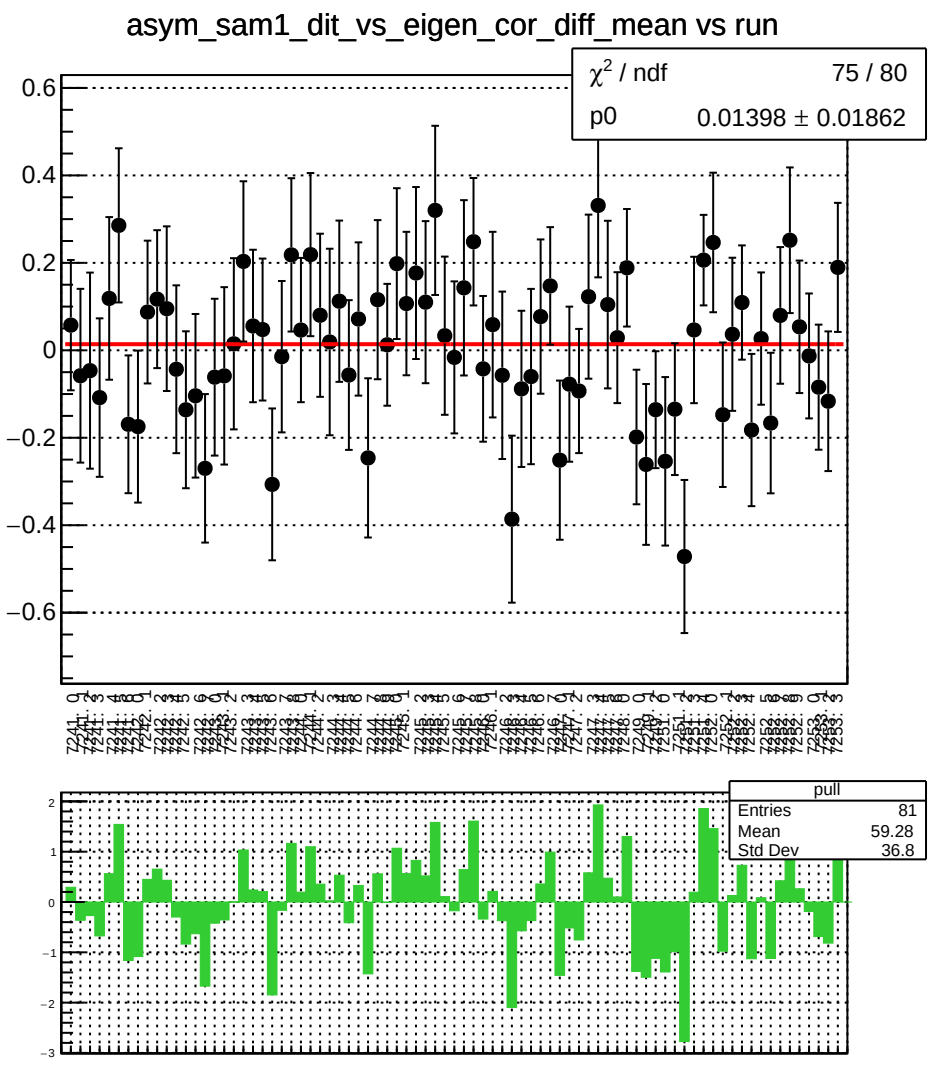

pull1D
Entries 81
Mean 0.1425
Std Dev 0.9992
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

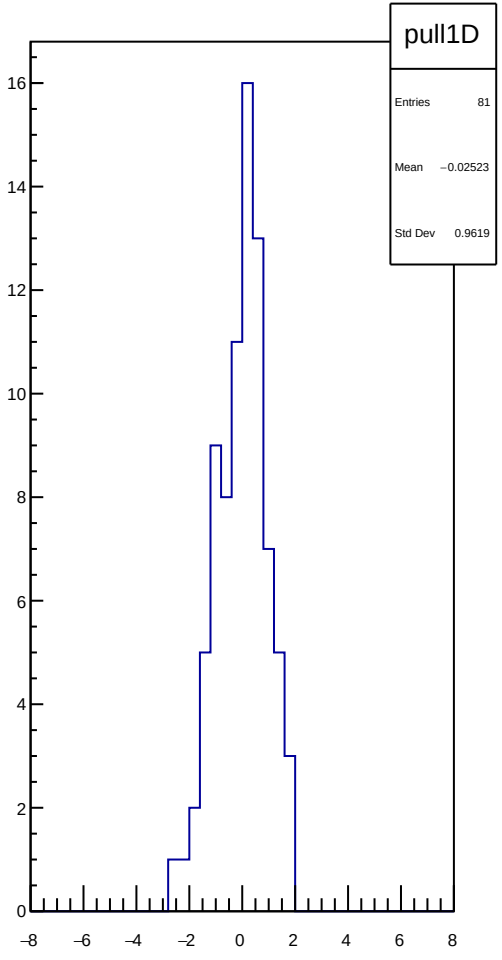

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.056e+06 / 80
p0 6.62e−12 ± 9.426e−15
0.05
0.04
0.03
0.02
0.01
0

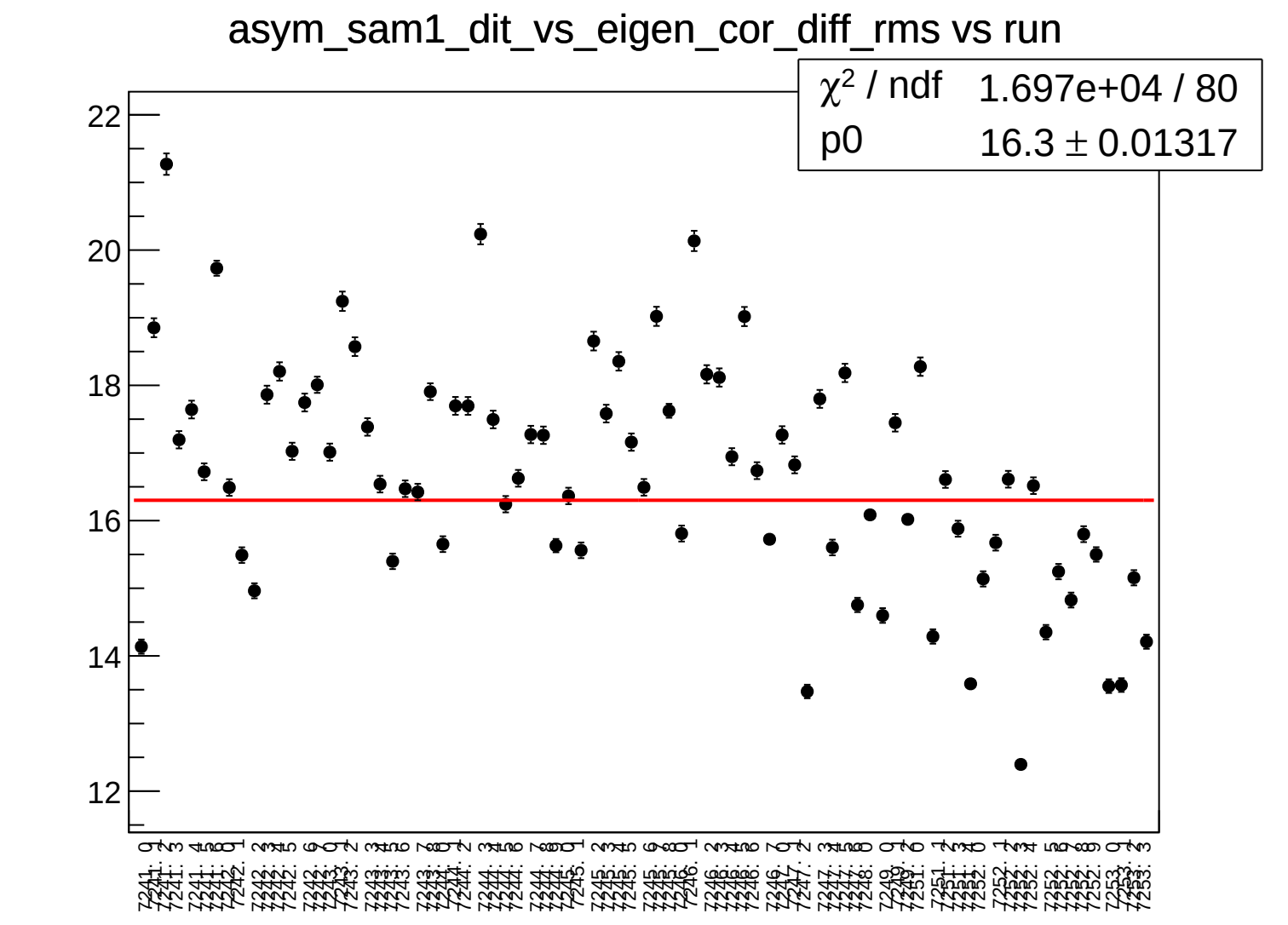

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 75 / 80
p0 0.01398 ± 0.01862
pull
Entries 81
Mean 59.28
Std Dev 36.8

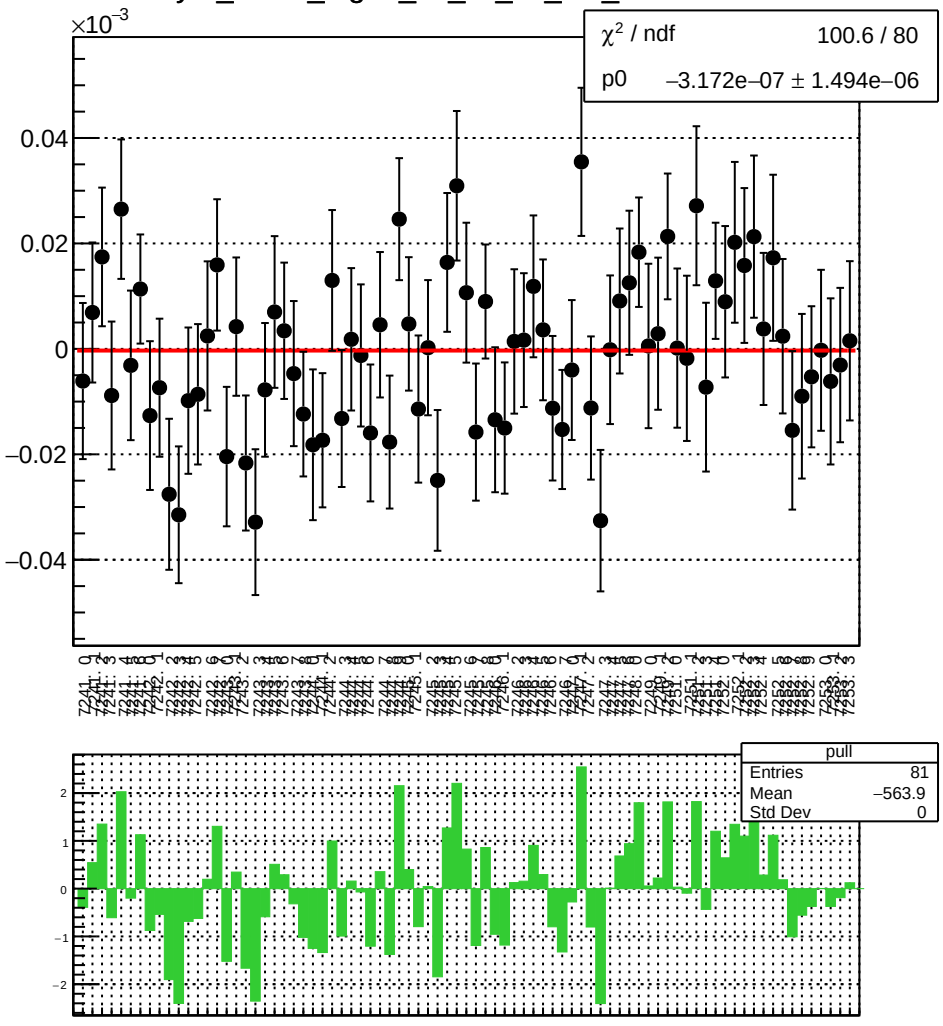

pull1D
Entries 81
Mean −0.02523
Std Dev 0.9619

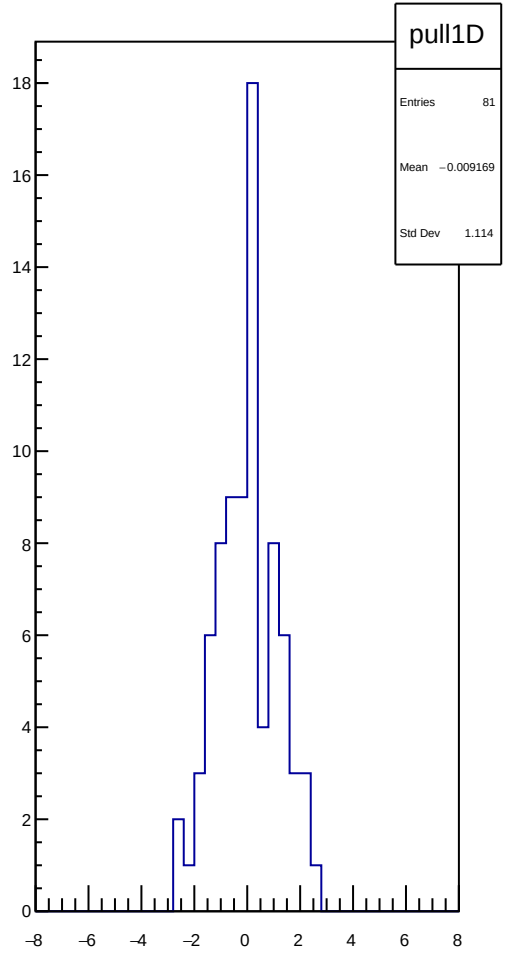

asym_sam1_dit_vs_cor_diff_rms vs run
χ² / ndf 1.697e+04 / 80
p0 16.3 ± 0.01317
22
20
18
16
14
12

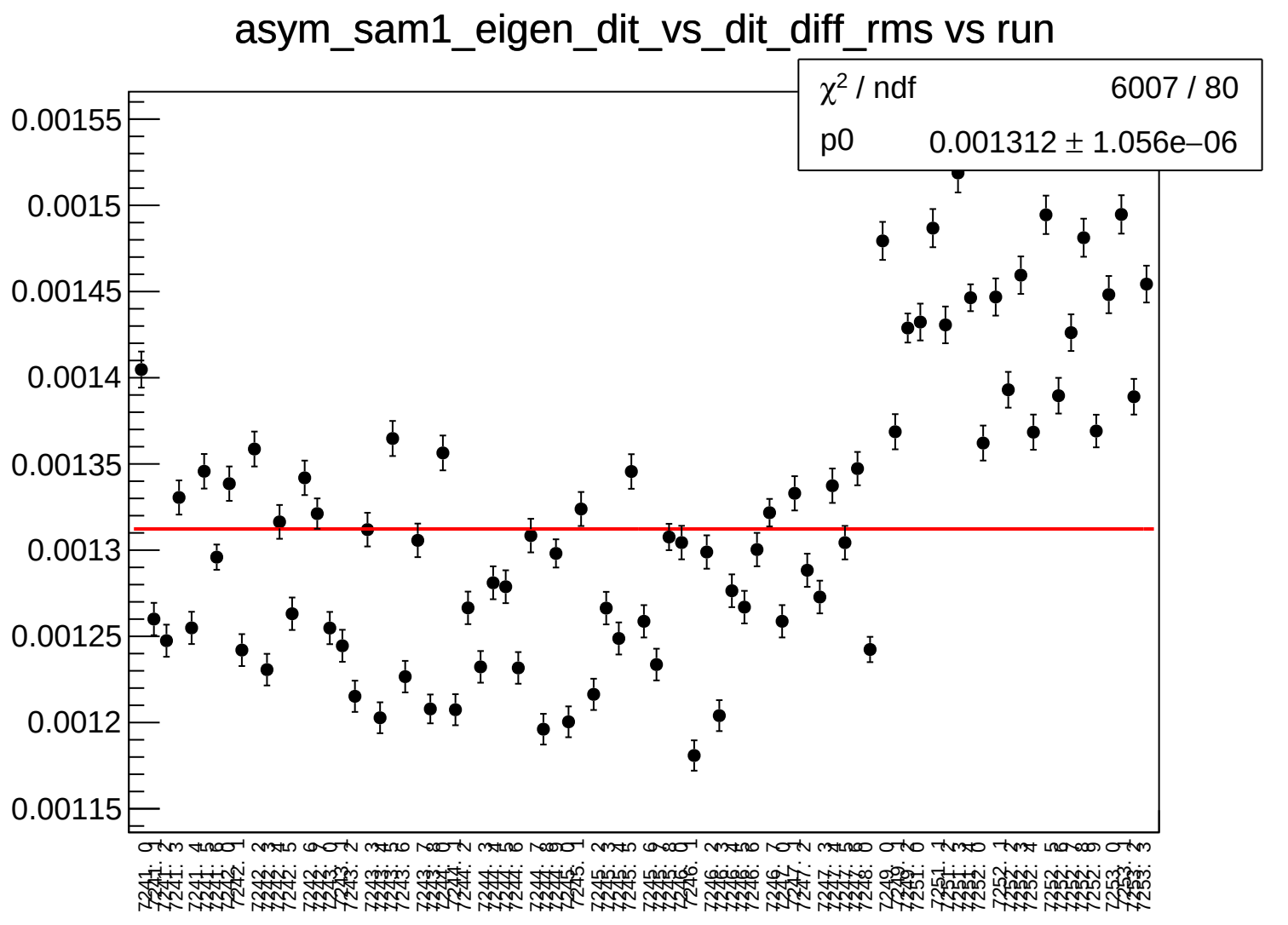

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75 / 80
p0 0.01398 ± 0.01862
pull
Entries 81
Mean 59.28
Std Dev 36.8

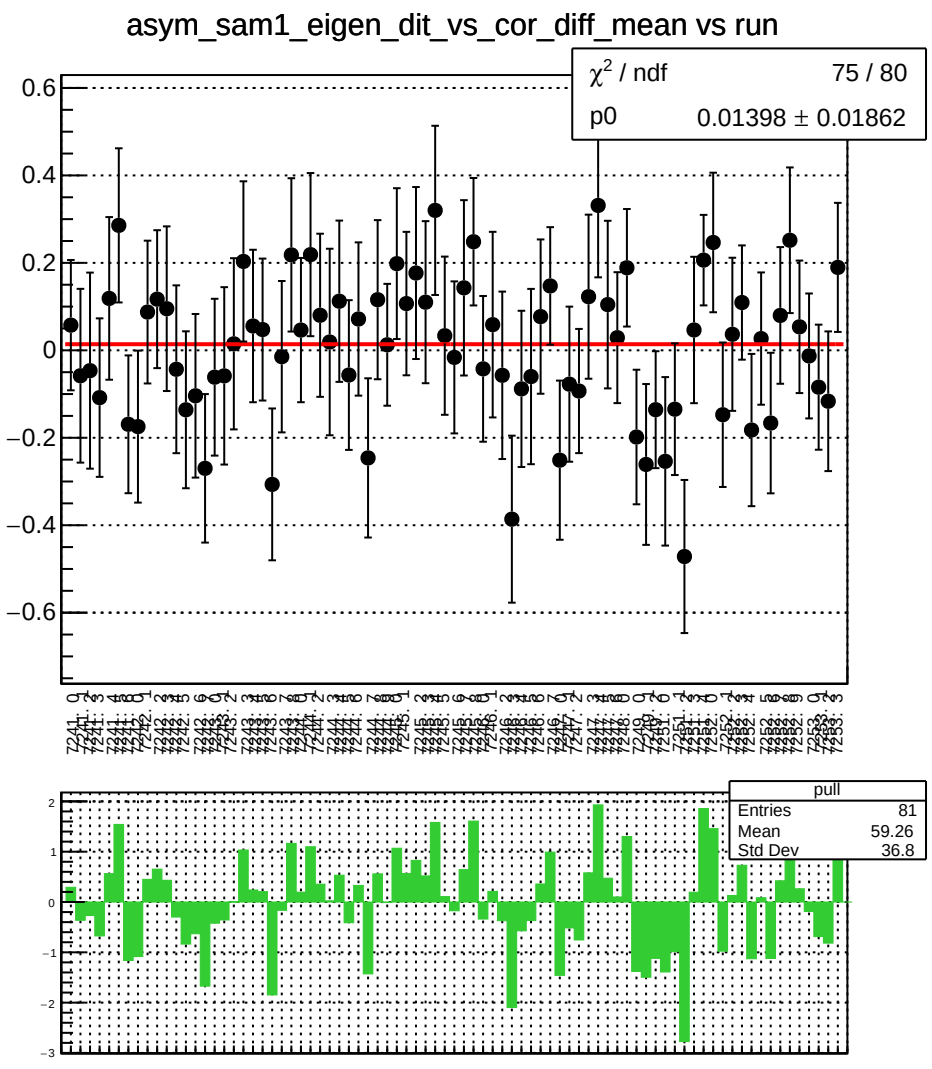

pull1D
Entries 81
Mean −0.02523
Std Dev 0.9619

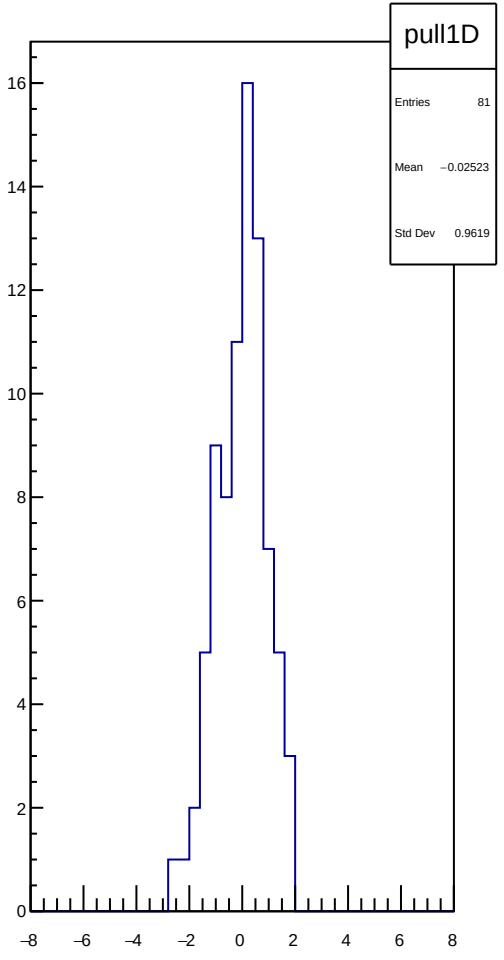

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.697e+04 / 80
p0 16.3 ± 0.01317
22
20
18
16
14
12

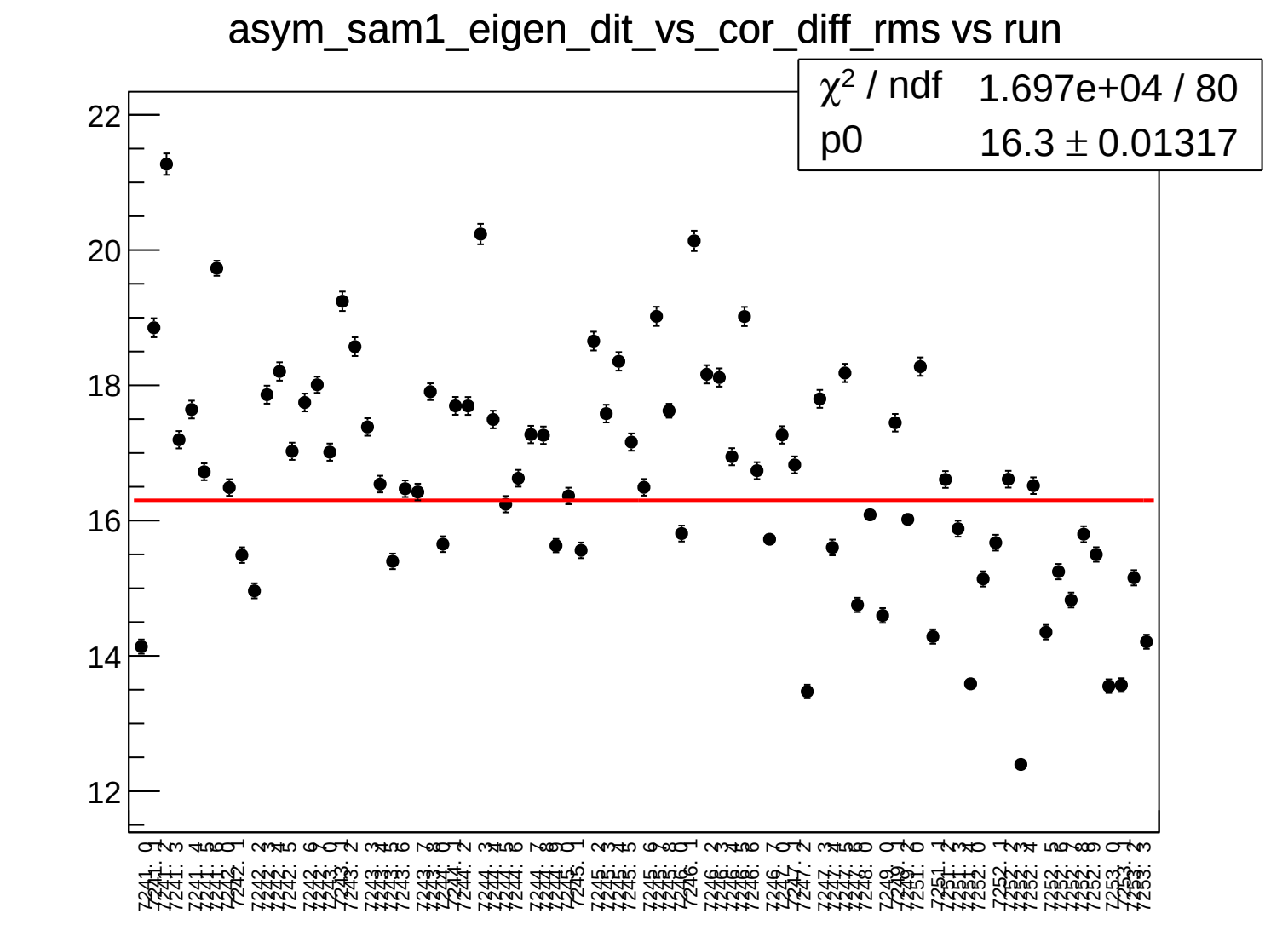

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.6 / 80
p0 −3.172e−07 ± 1.494e−06
0.04
0.02
0
−0.02
−0.04
pull
Entries 81
Mean −563.9
Std Dev 0
2
1
0
−1
−2

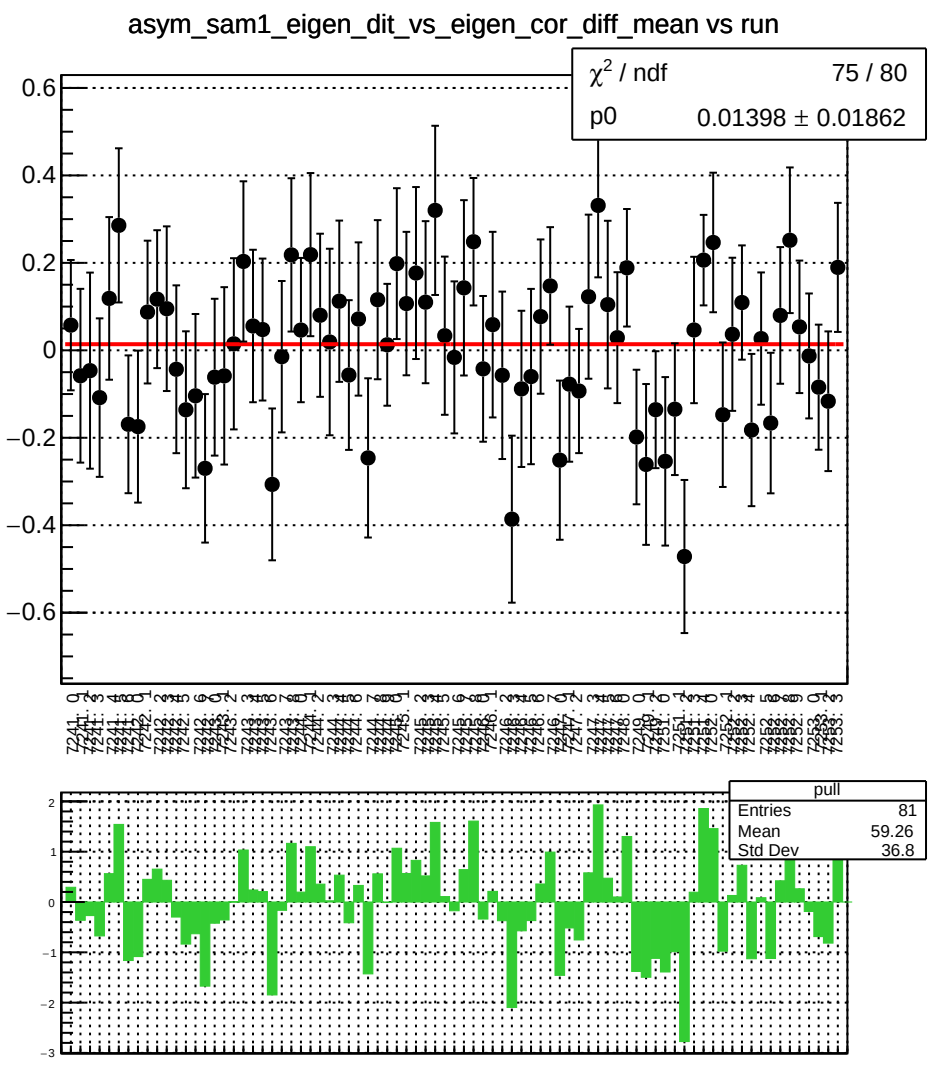

pull1D
Entries 81
Mean −0.009169
Std Dev 1.114
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

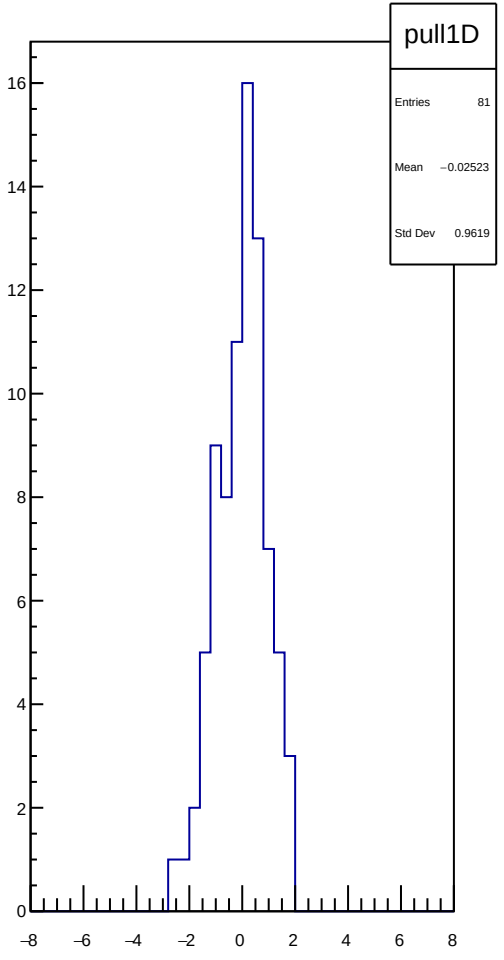

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6007 / 80
p0 0.001312 ± 1.056e−06
0.00155
0.0015
0.00145
0.0014
0.00135
0.0013
0.00125
0.0012
0.00115

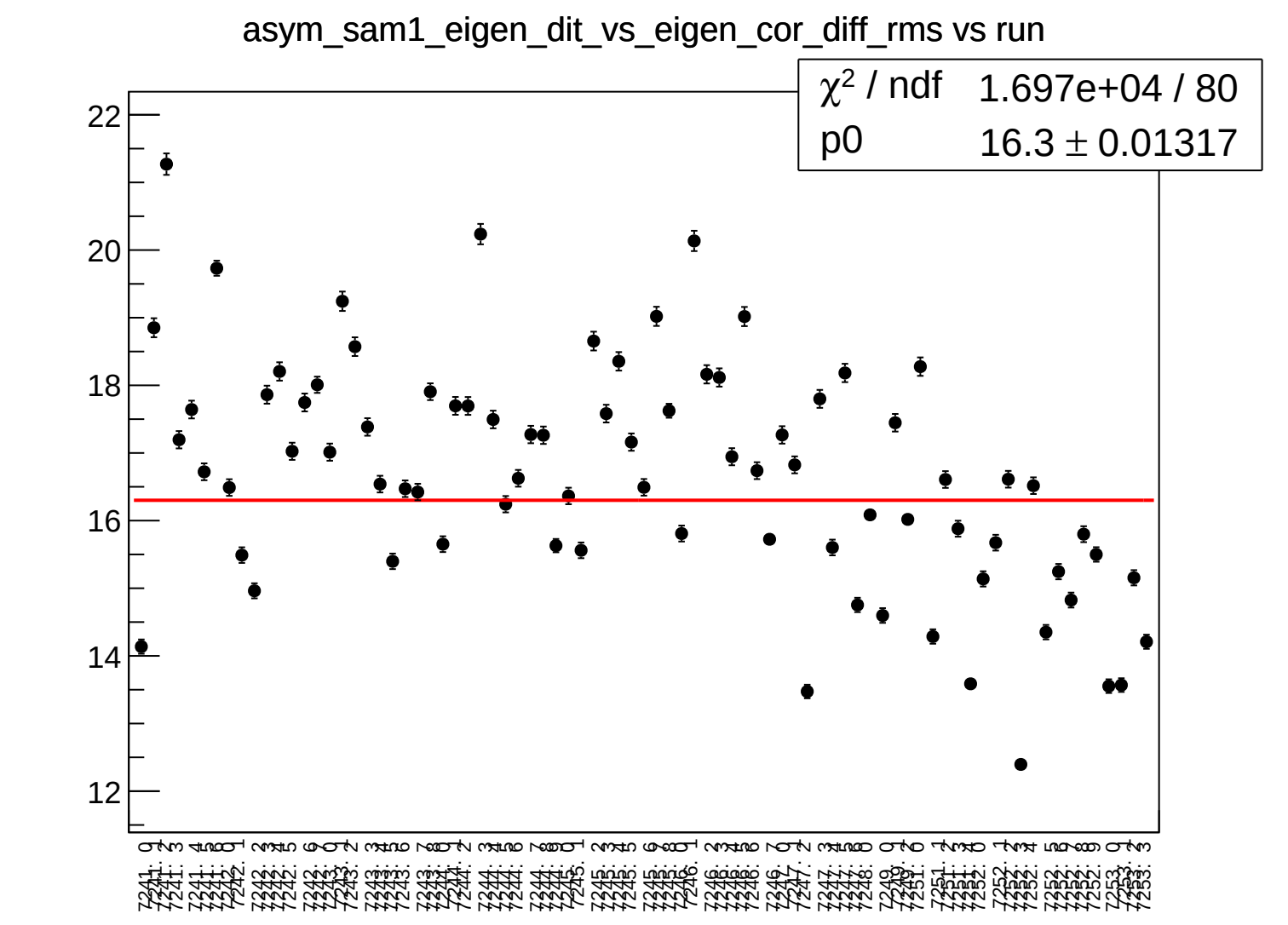

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75 / 80
p0 0.01398 ± 0.01862
pull
Entries 81
Mean 59.26
Std Dev 36.8

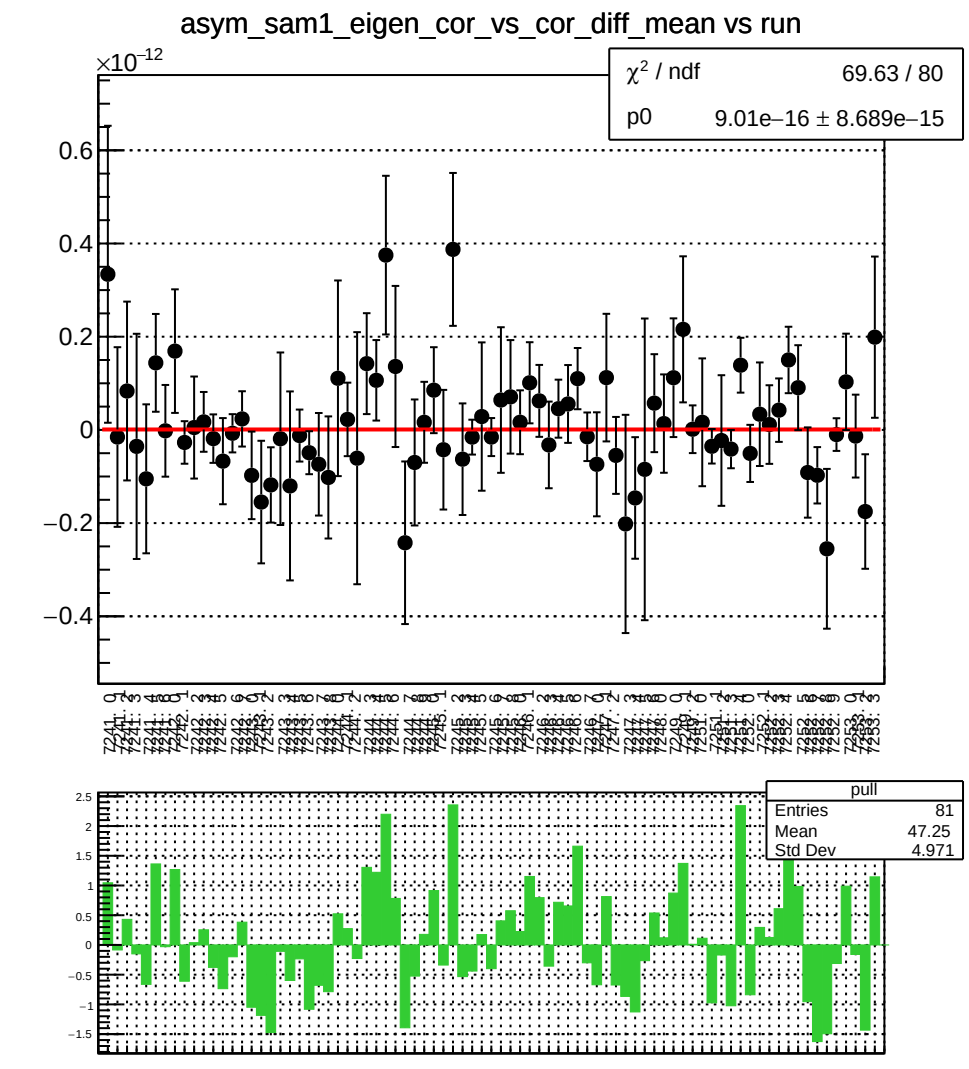

pull1D
Entries 81
Mean −0.02523
Std Dev 0.9619

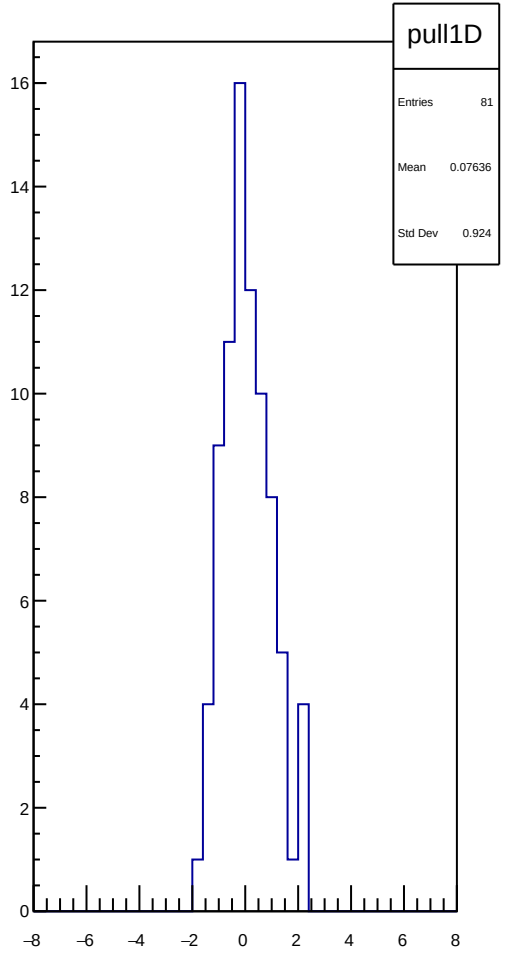

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.697e+04 / 80
p0 16.3 ± 0.01317
22
20
18
16
14
12

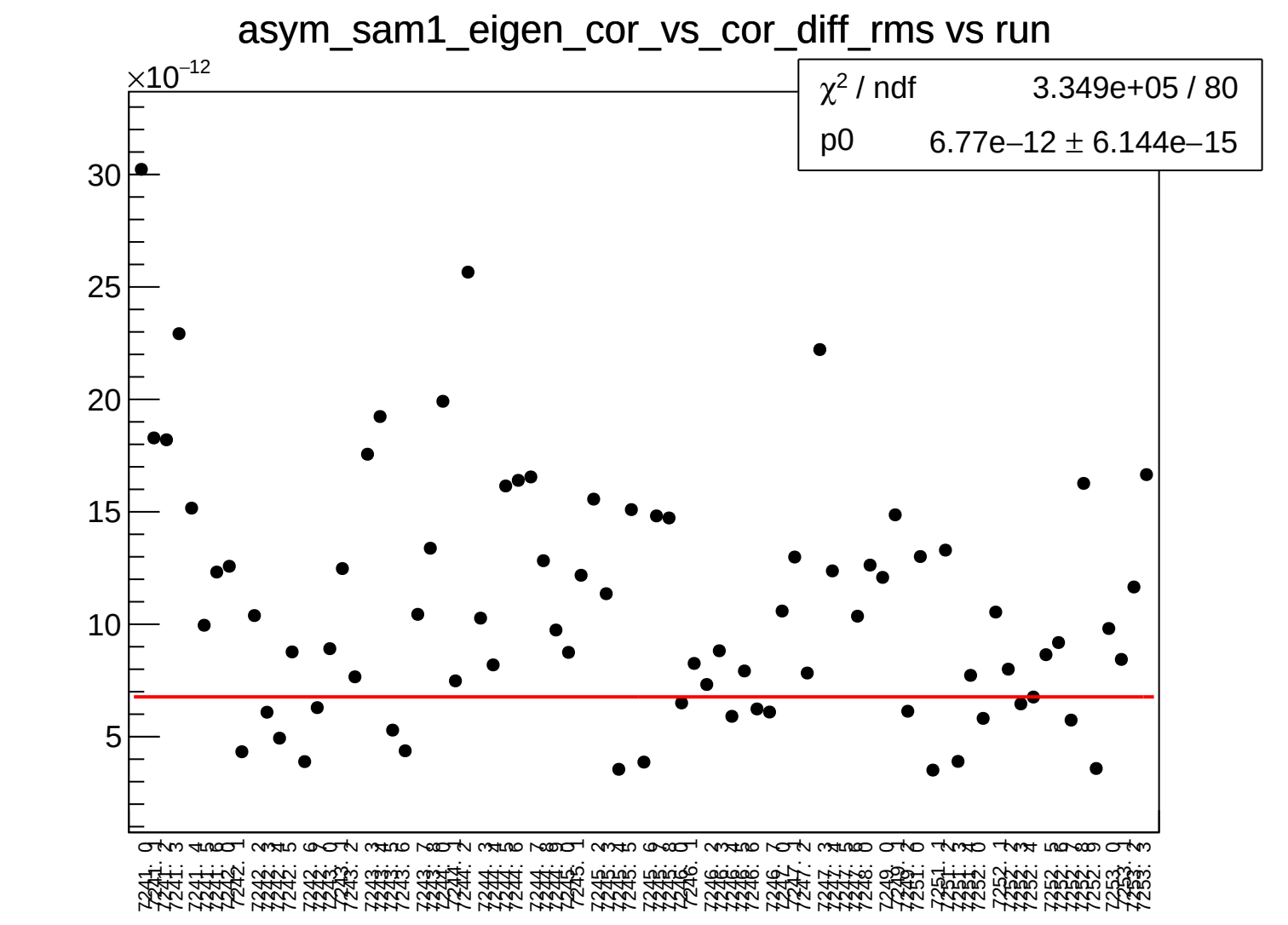

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75 / 80
p0 0.01398 ± 0.01862
pull
Entries 81
Mean 59.26
Std Dev 36.8

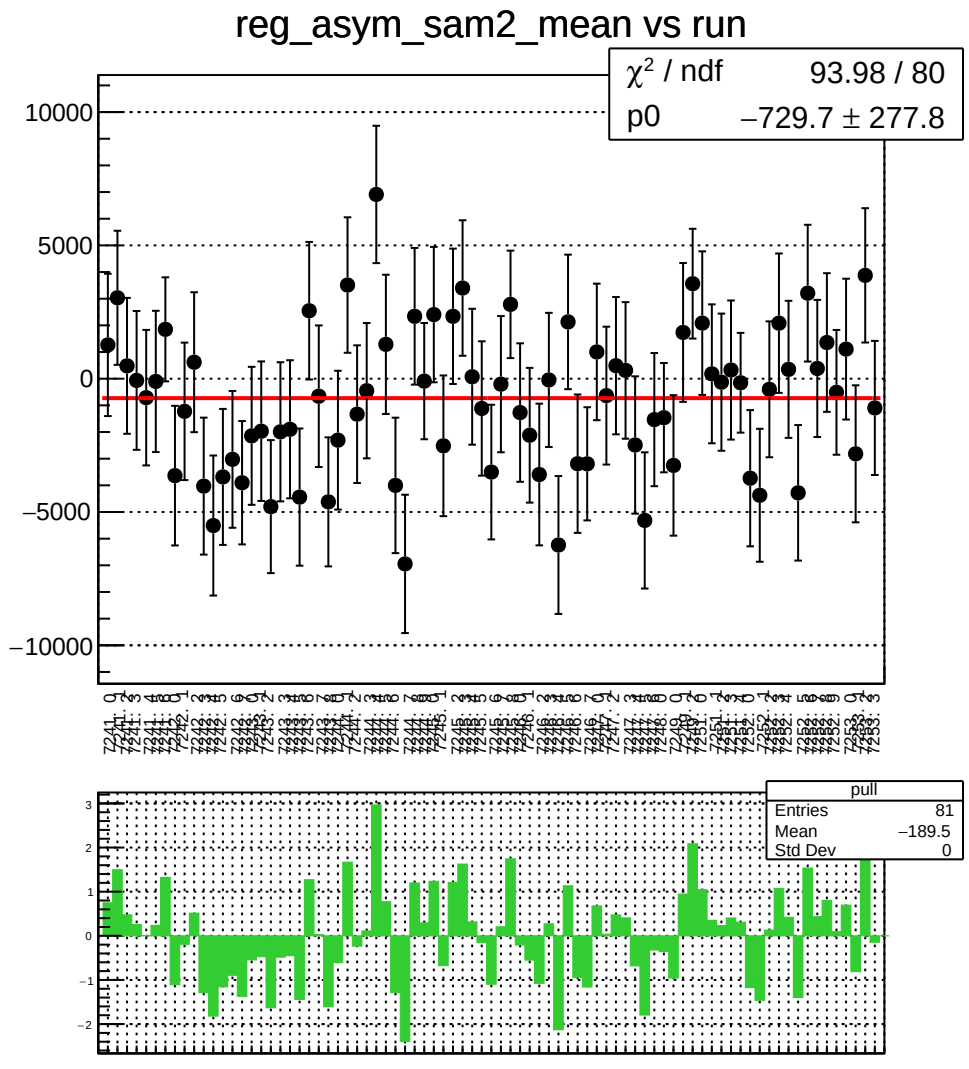

pull1D
Entries 81
Mean −0.02523
Std Dev 0.9619

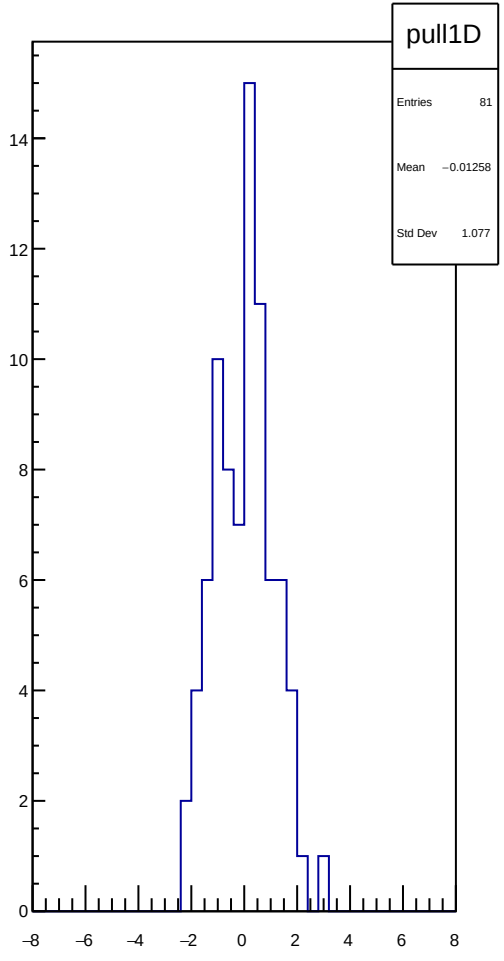

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.697e+04 / 80
p0 16.3 ± 0.01317
22
20
18
16
14
12

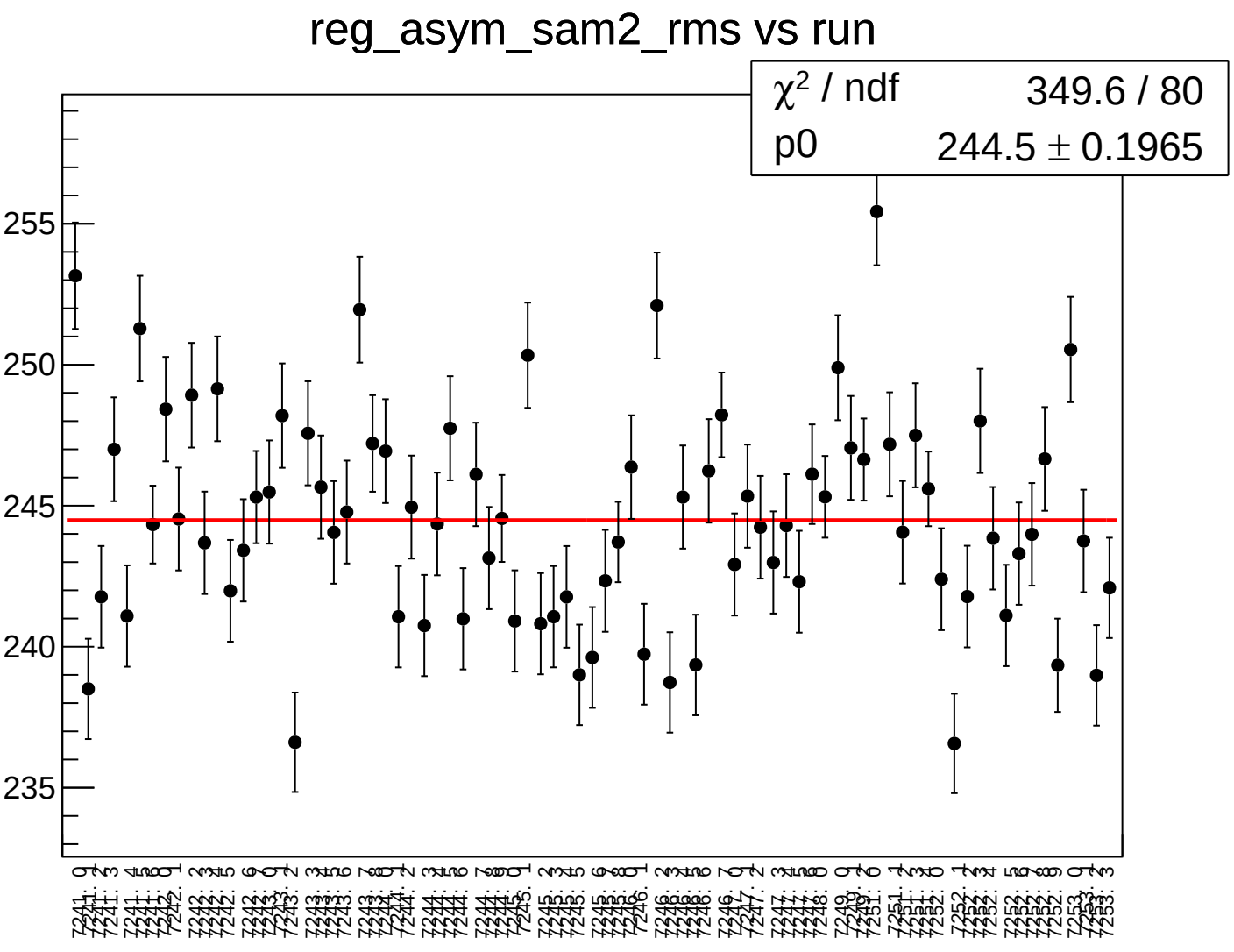

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 69.63 / 80
p0 9.01e−16 ± 8.689e−15
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 81
Mean 47.25
Std Dev 4.971
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

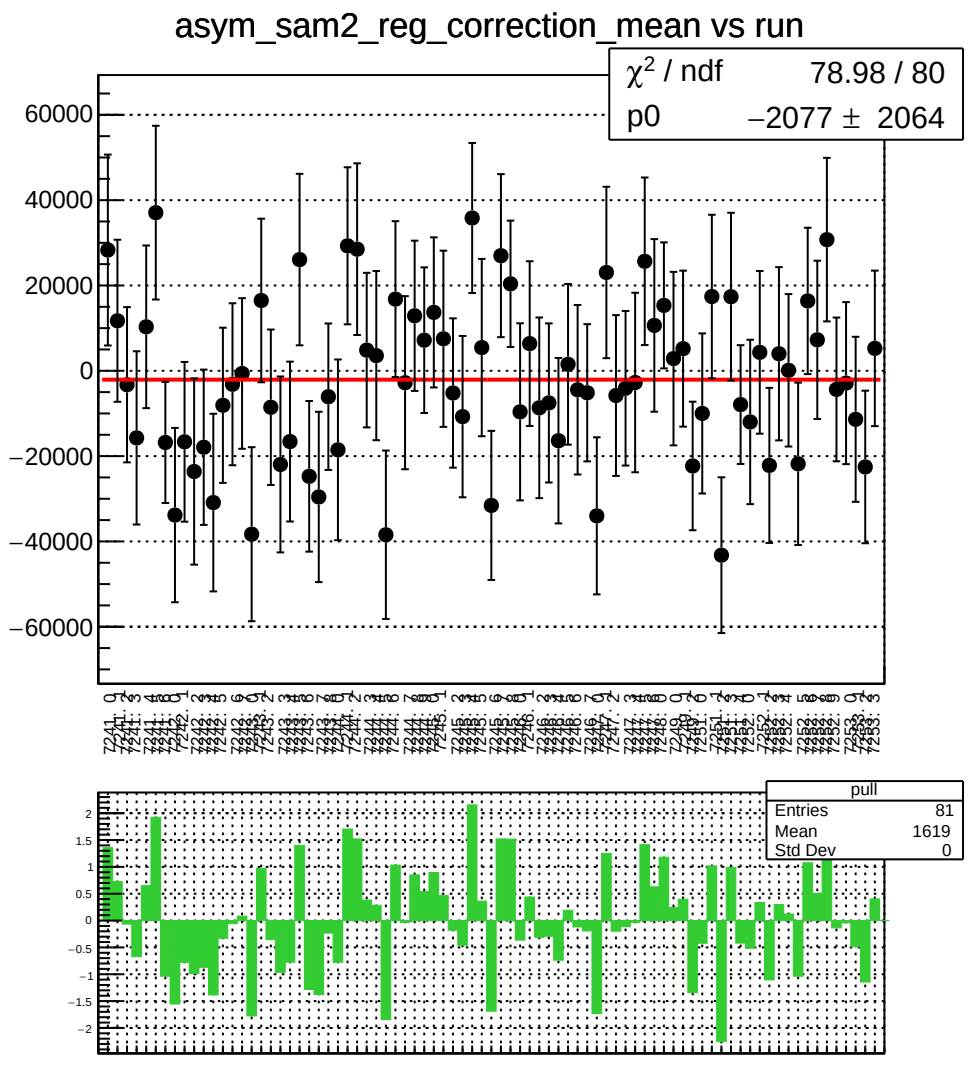

pull1D
Entries 81
Mean 0.07636
Std Dev 0.924
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

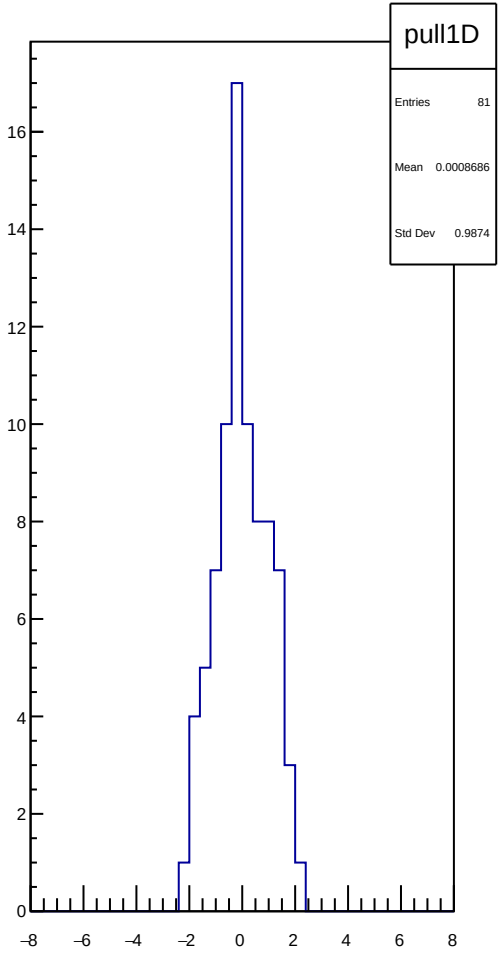

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.349e+05 / 80
p0 6.77e−12 ± 6.144e−15
30
25
20
15
10
5

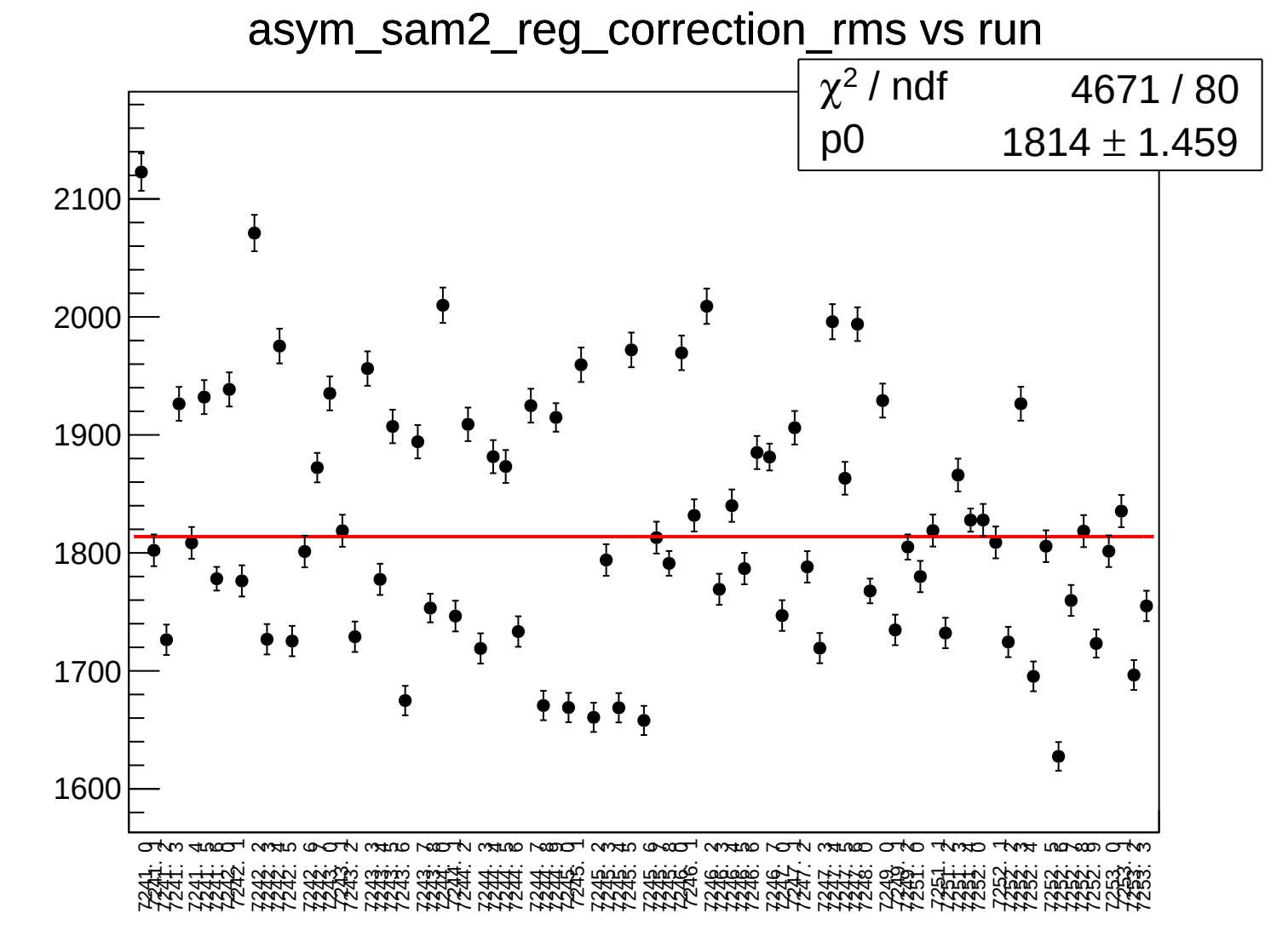

reg_asym_sam2_mean vs run
χ² / ndf 93.98 / 80
p0 −729.7 ± 277.8
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −189.5
Std Dev 0
3
2
1
0
−1
−2

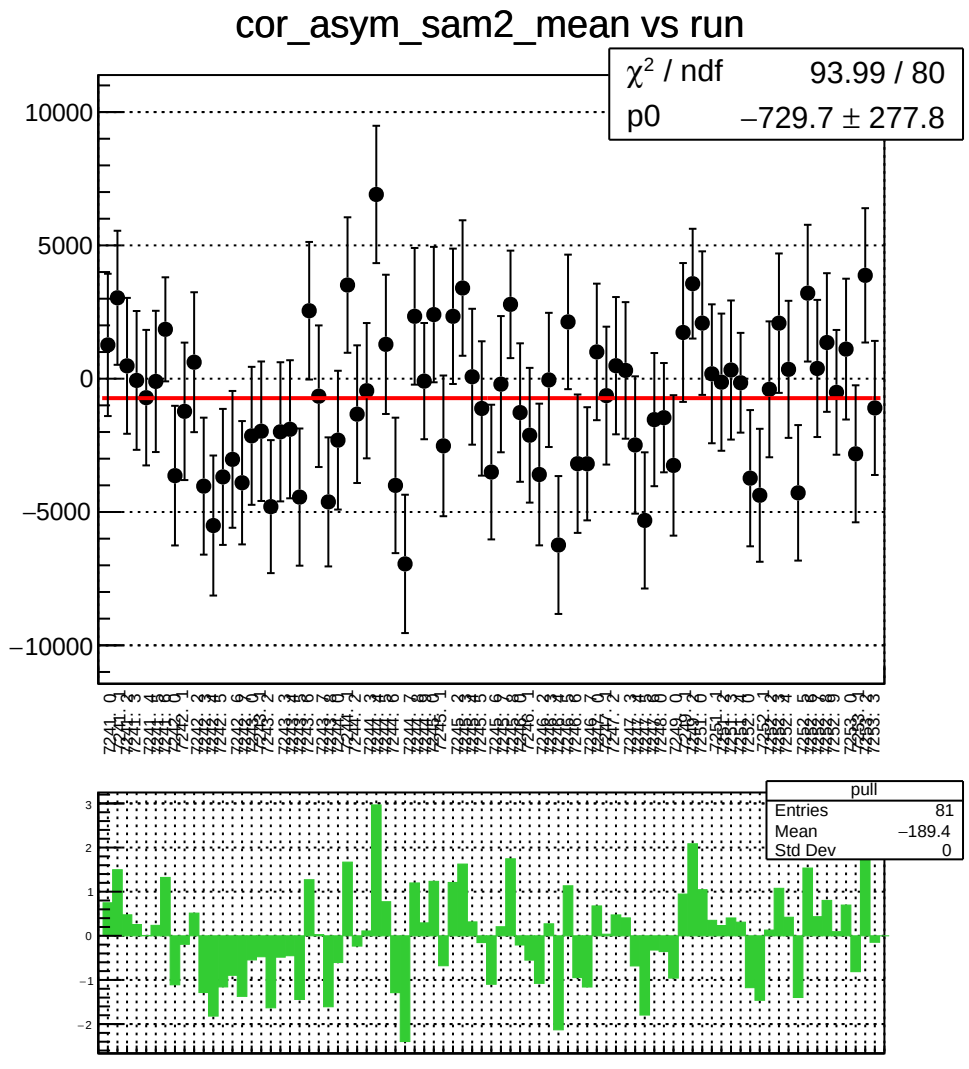

pull1D
Entries 81
Mean −0.01258
Std Dev 1.077
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

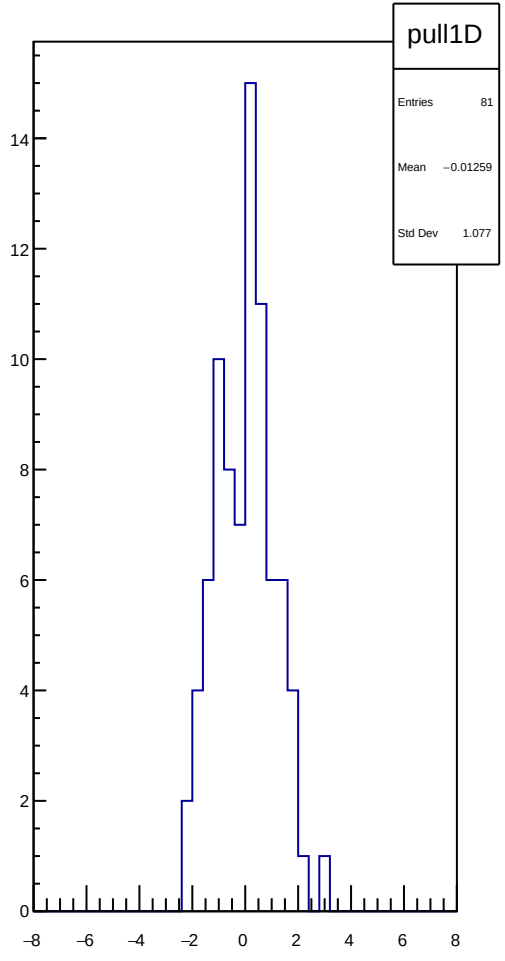

reg_asym_sam2_rms vs run
χ² / ndf 349.6 / 80
p0 244.5 ± 0.1965
255
250
245
240
235

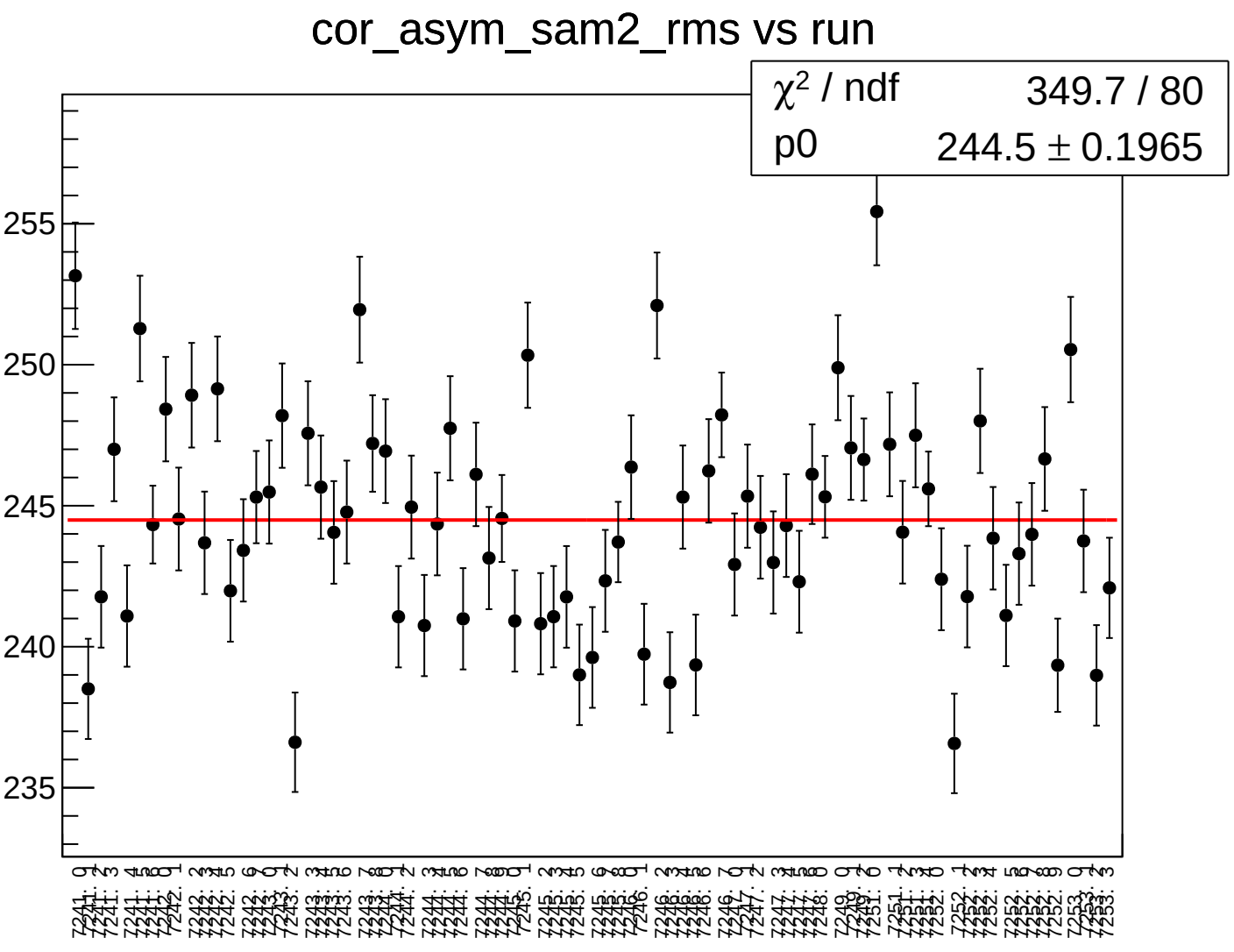

asym_sam2_reg_correction_mean vs run
χ² / ndf 78.98 / 80
p0 −2077 ± 2064
pull
Entries 81
Mean 1619
Std Dev 0

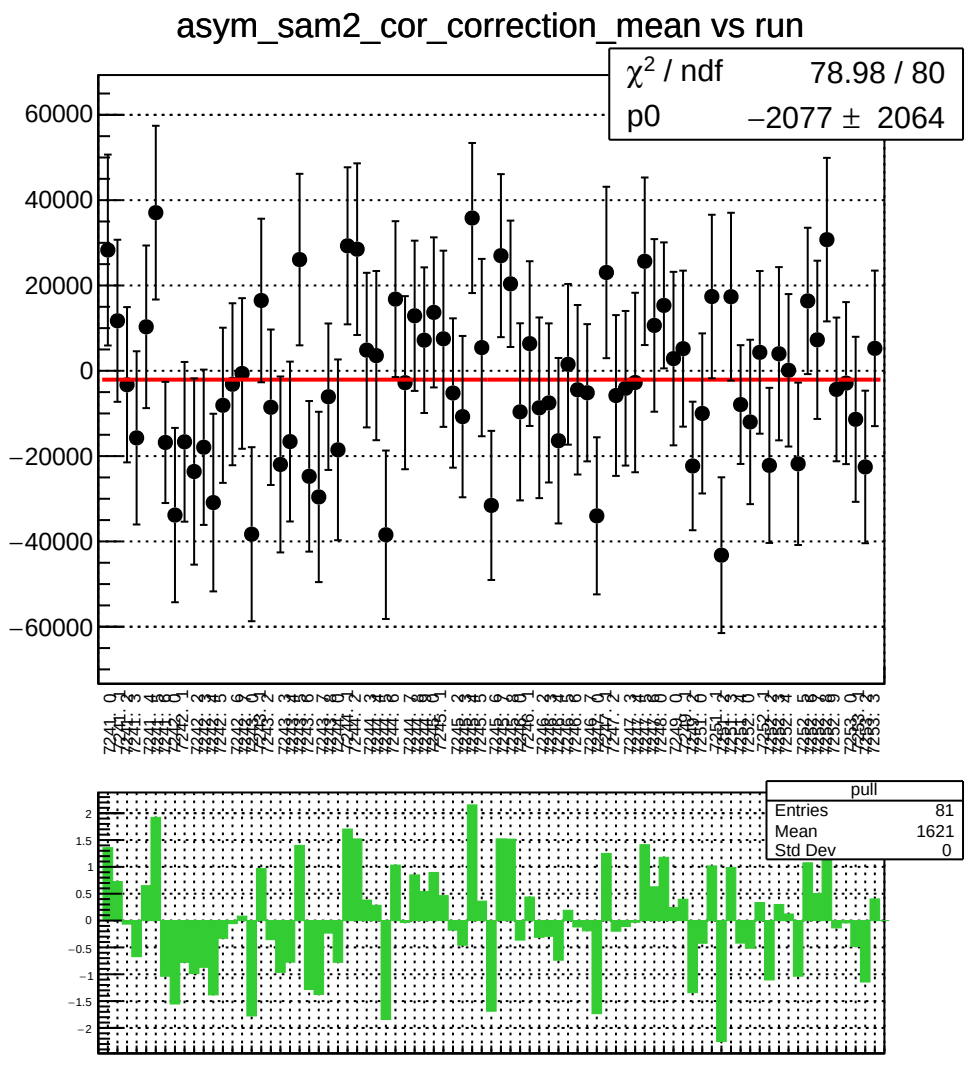

pull1D
Entries 81
Mean 0.0008686
Std Dev 0.9874

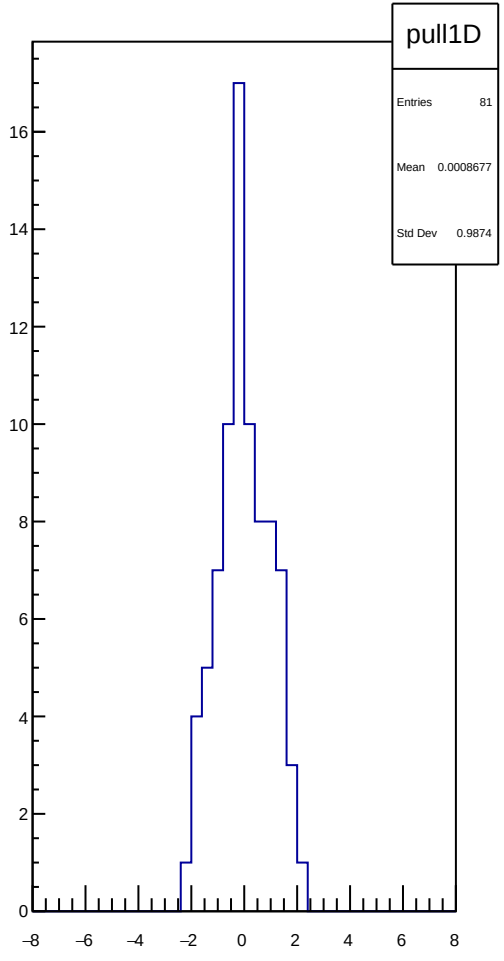

asym_sam2_reg_correction_rms vs run
χ² / ndf 4671 / 80
p0 1814 ± 1.459
2100
2000
1900
1800
1700
1600

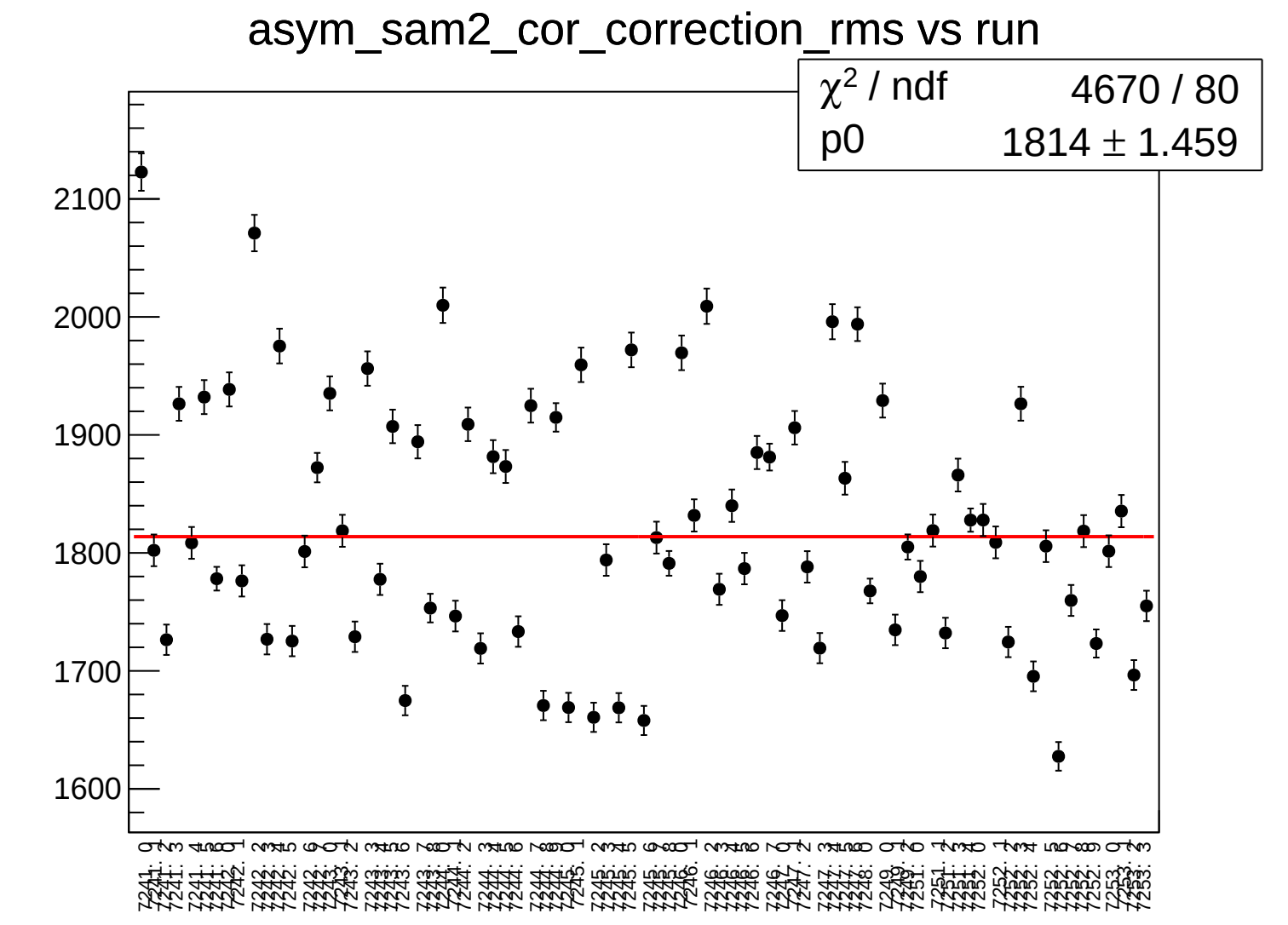

cor_asym_sam2_mean vs run
χ² / ndf 93.99 / 80
p0 −729.7 ± 277.8
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −189.4
Std Dev 0
3
2
1
0
−1
−2

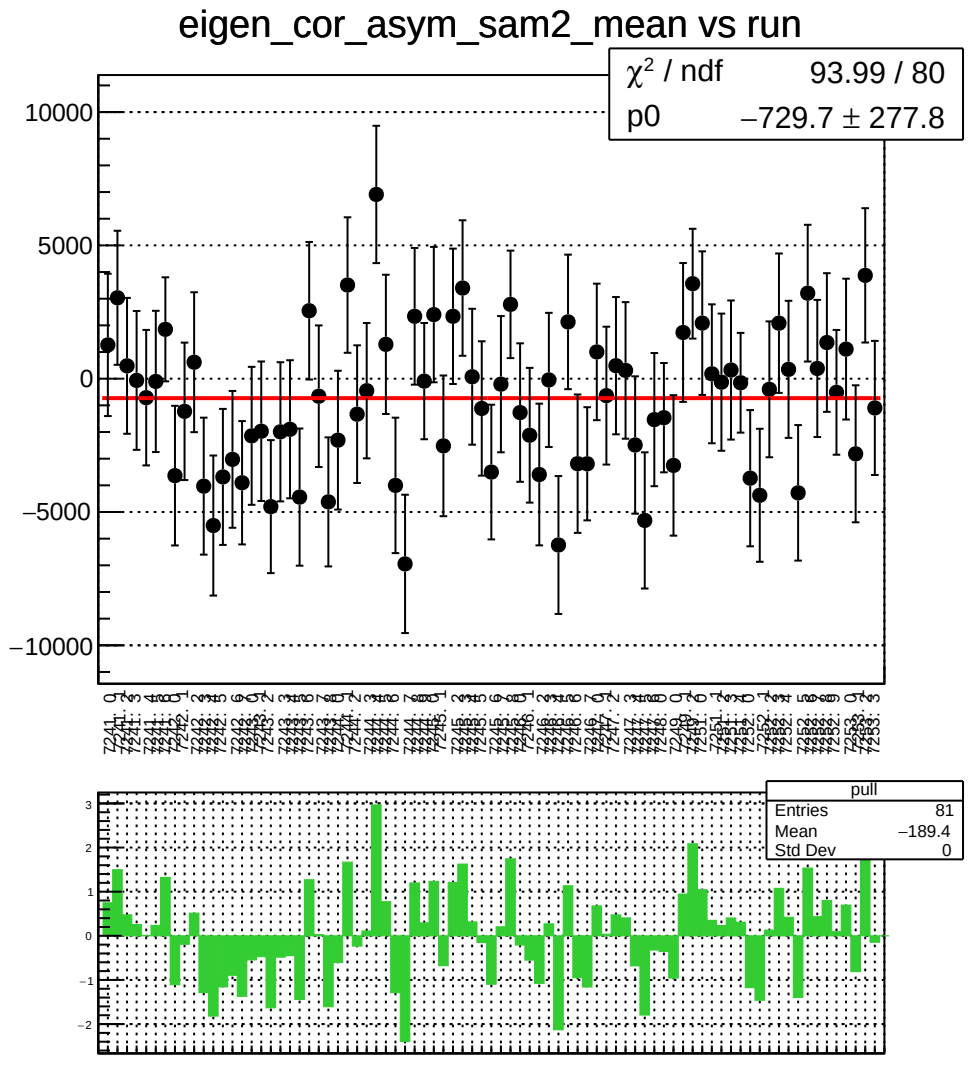

pull1D
Entries 81
Mean −0.01259
Std Dev 1.077
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

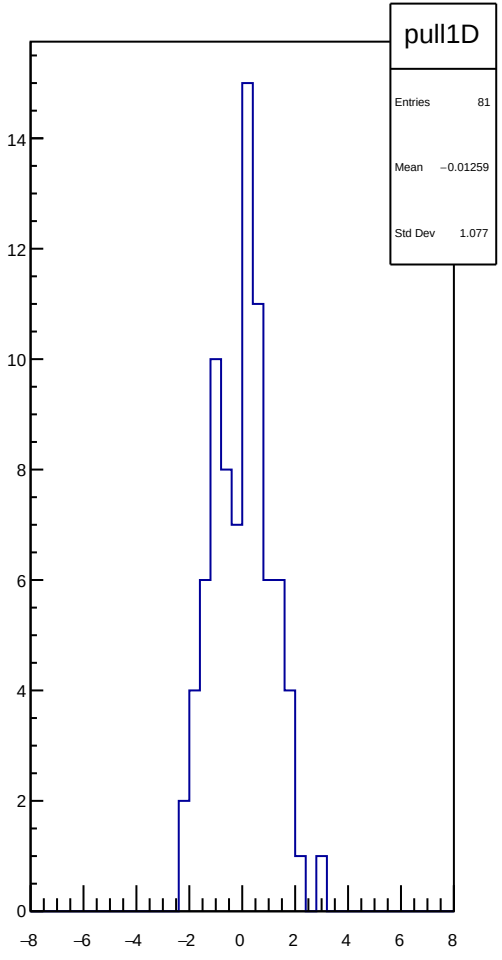

cor_asym_sam2_rms vs run
χ² / ndf 349.7 / 80
p0 244.5 ± 0.1965
255
250
245
240
235

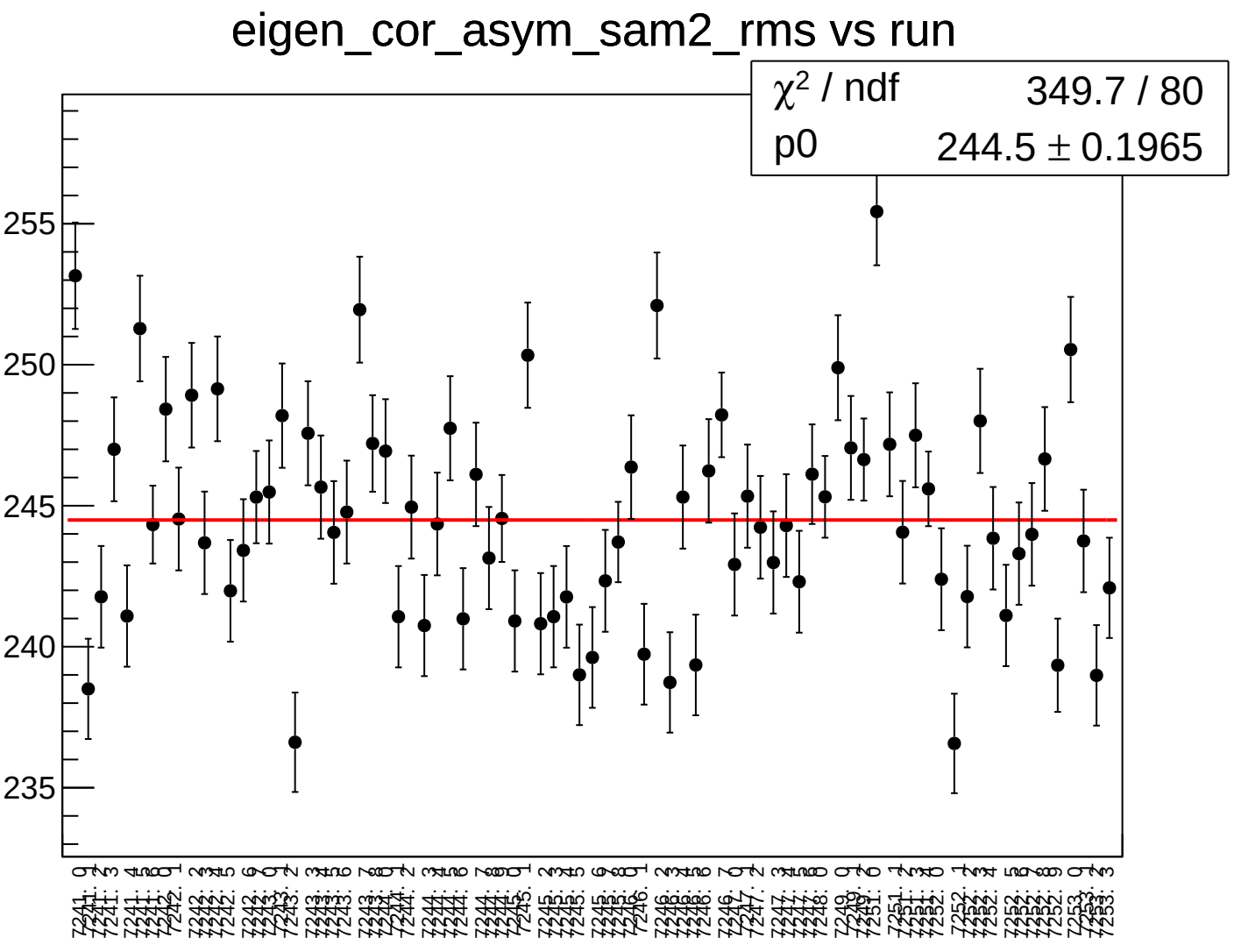

asym_sam2_cor_correction_mean vs run
χ² / ndf 78.98 / 80
p0 −2077 ± 2064
pull
Entries 81
Mean 1621
Std Dev 0

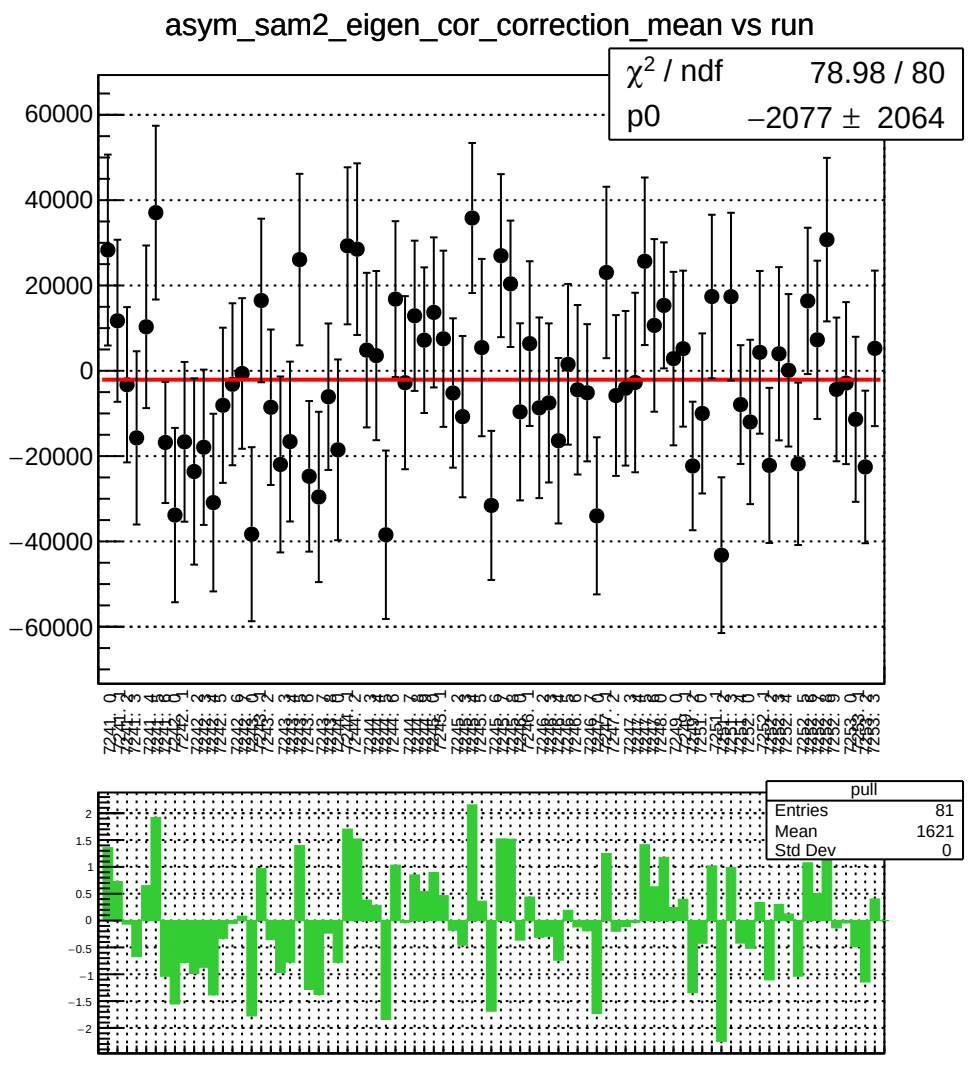

pull1D
Entries 81
Mean 0.0008677
Std Dev 0.9874

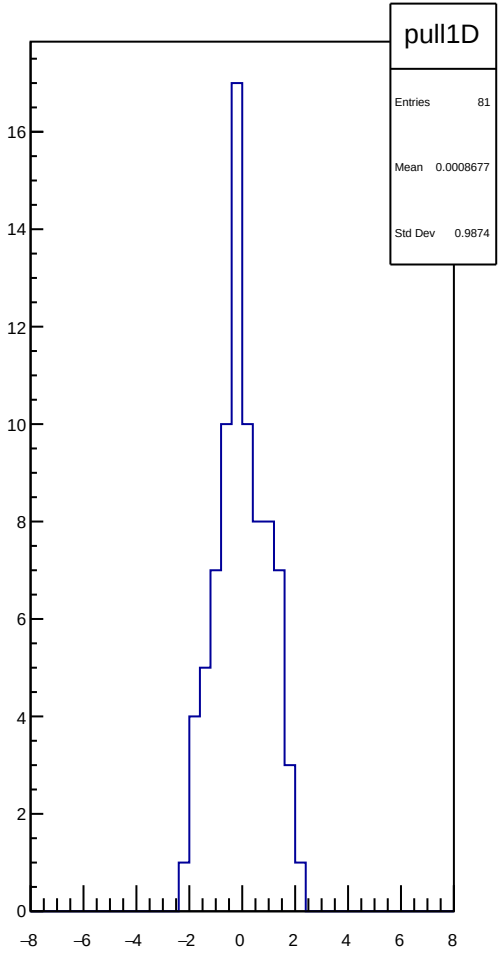

asym_sam2_cor_correction_rms vs run
χ² / ndf 4670 / 80
p0 1814 ± 1.459
2100
2000
1900
1800
1700
1600

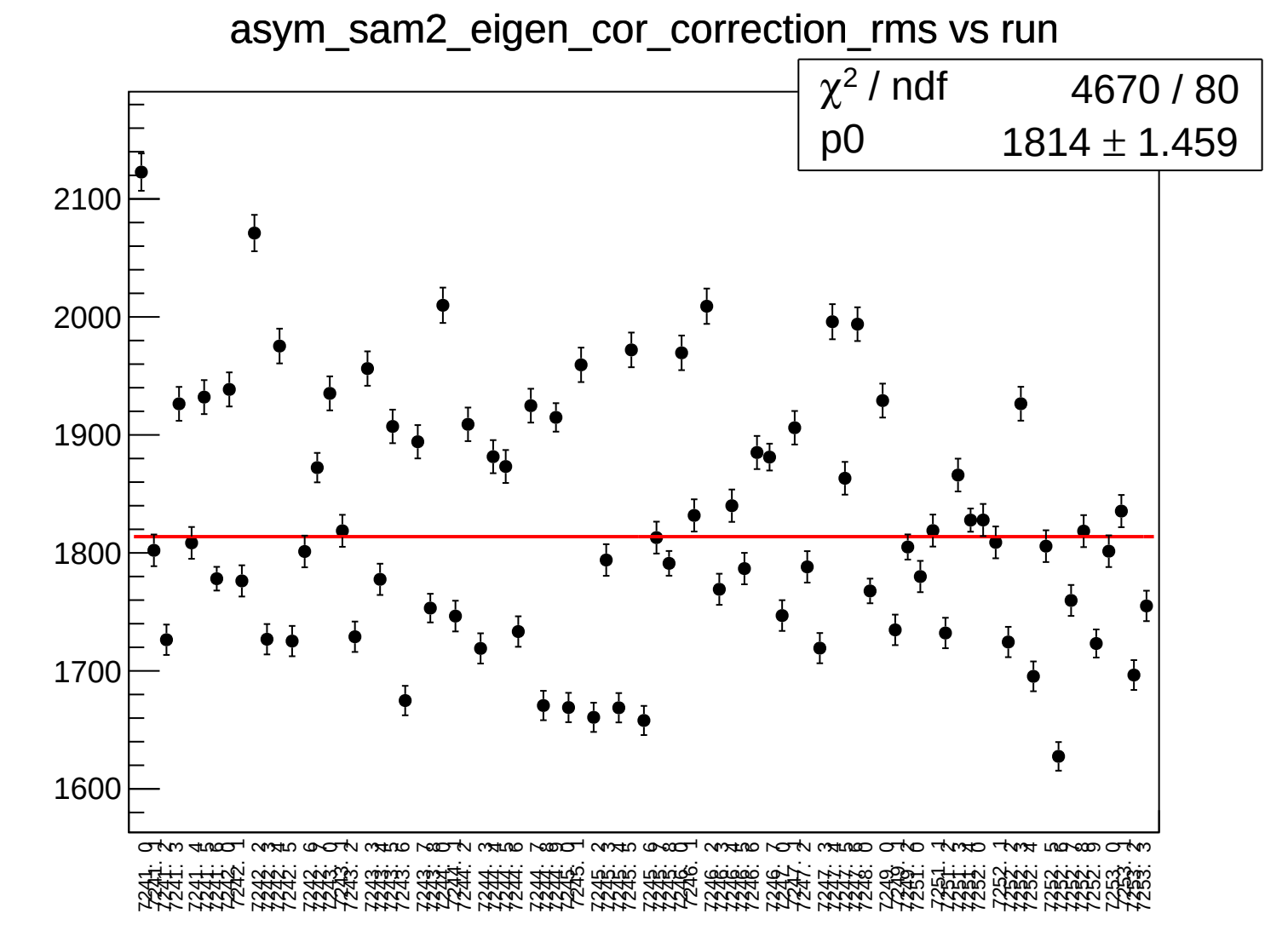

eigen_cor_asym_sam2_mean vs run
χ² / ndf 93.99 / 80
p0 −729.7 ± 277.8
pull
Entries 81
Mean −189.4
Std Dev 0

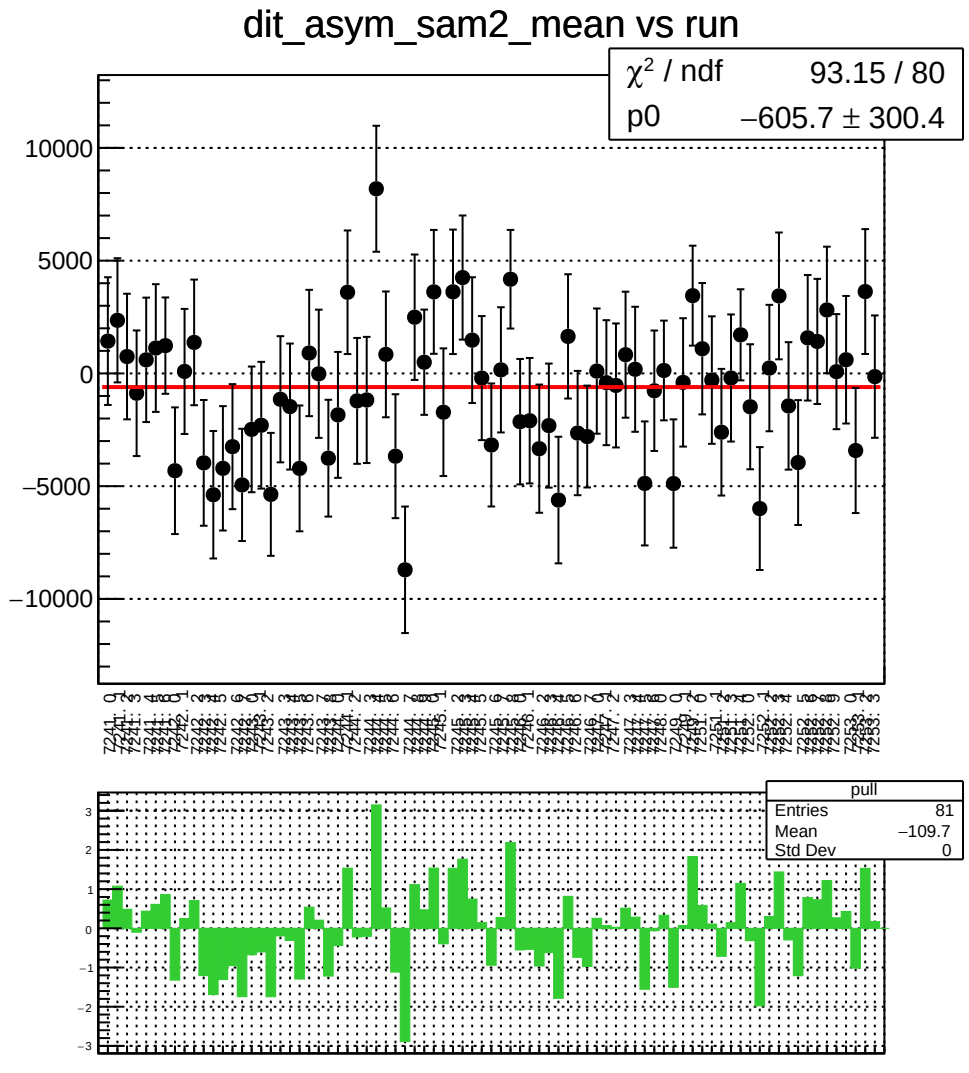

pull1D
Entries 81
Mean −0.01259
Std Dev 1.077

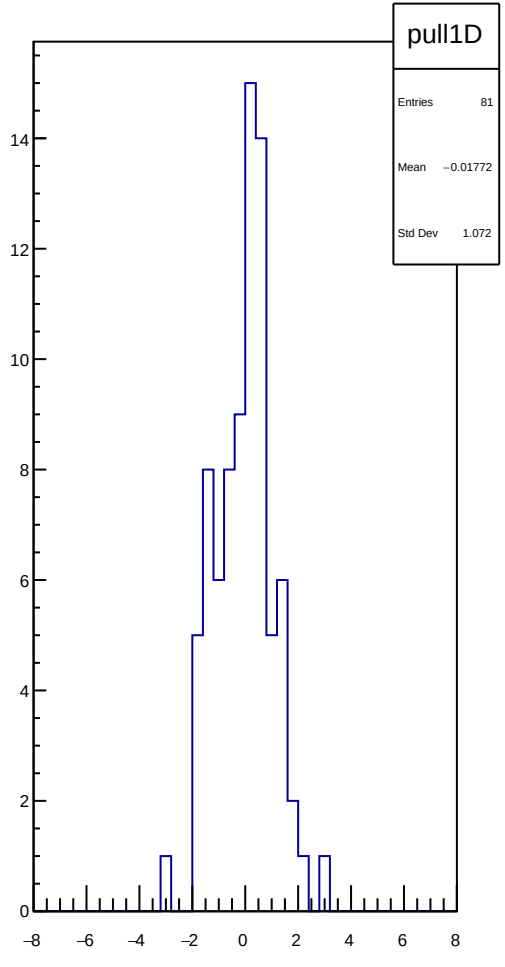

eigen_cor_asym_sam2_rms vs run
χ² / ndf 349.7 / 80
p0 244.5 ± 0.1965
255
250
245
240
235

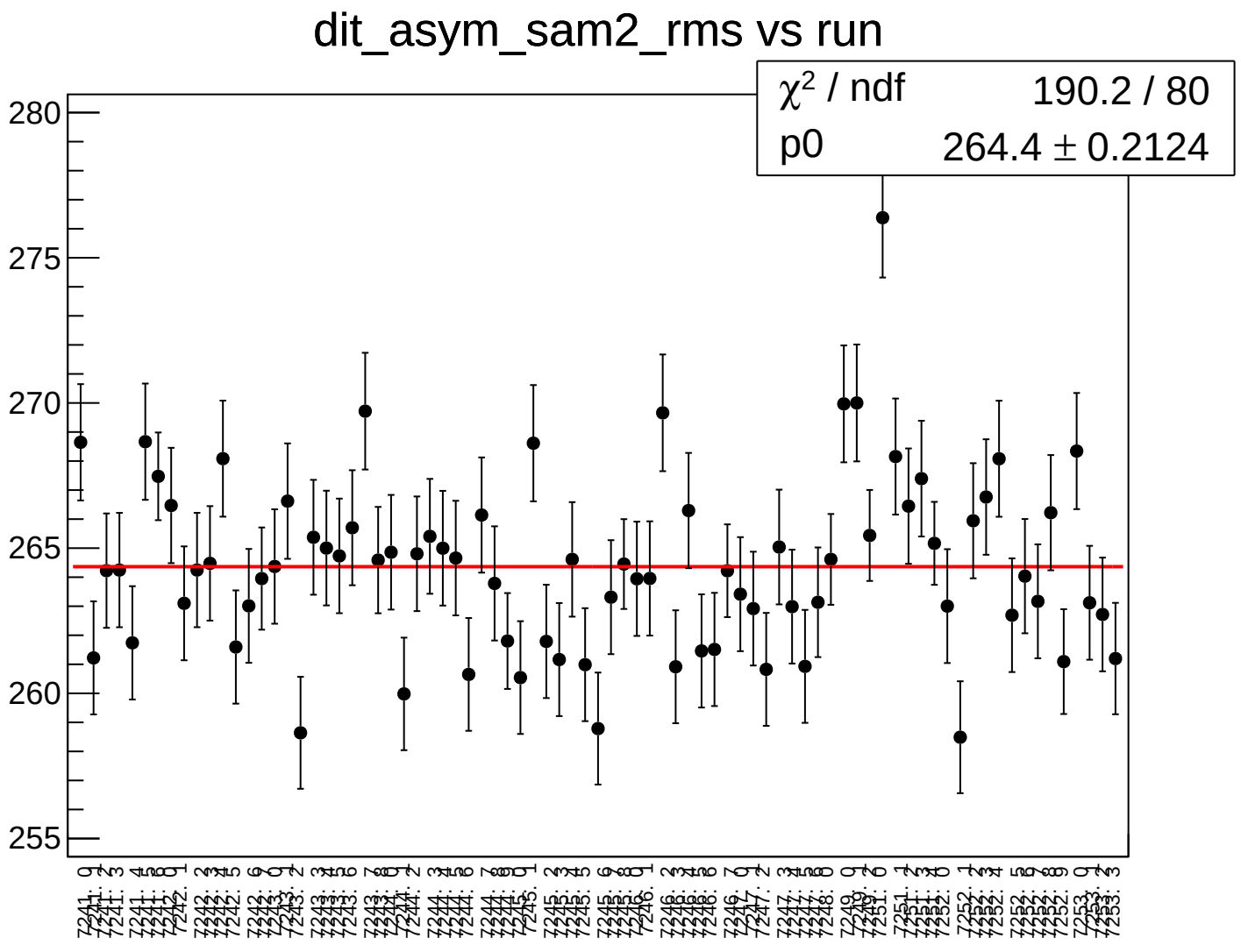

asym_sam2_eigen_cor_correction_mean vs run
χ² / ndf 78.98 / 80
p0 −2077 ± 2064
pull
Entries 81
Mean 1621
Std Dev 0

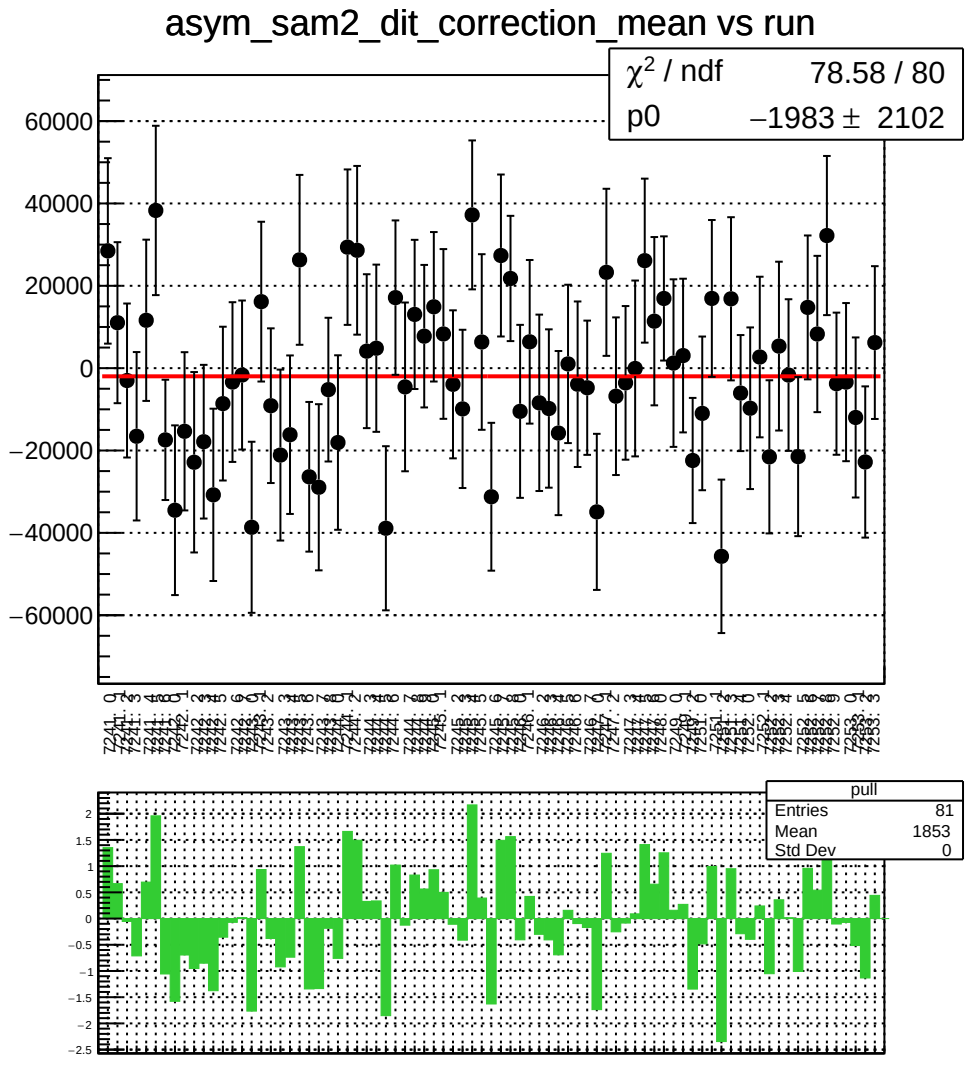

pull1D
Entries 81
Mean 0.0008677
Std Dev 0.9874

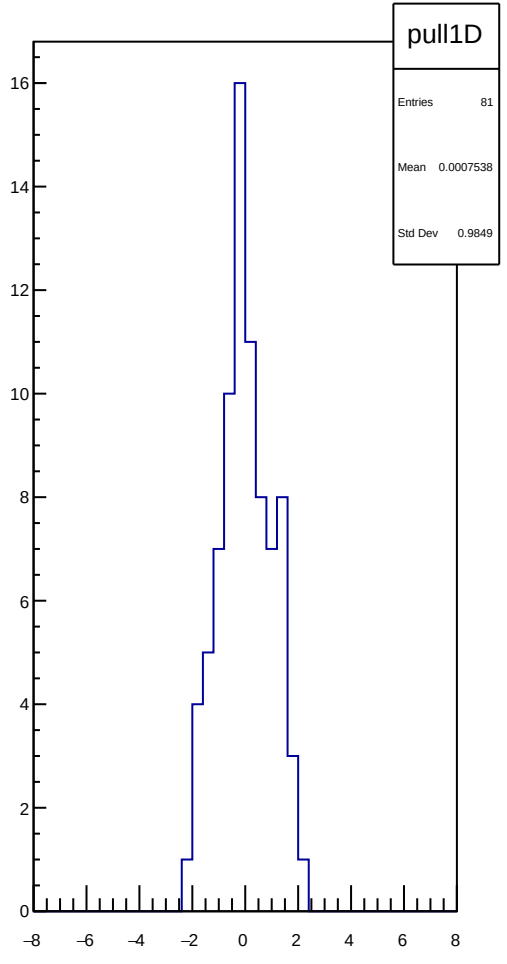

asym_sam2_eigen_cor_correction_rms vs run
χ² / ndf 4670 / 80
p0 1814 ± 1.459
2100
2000
1900
1800
1700
1600

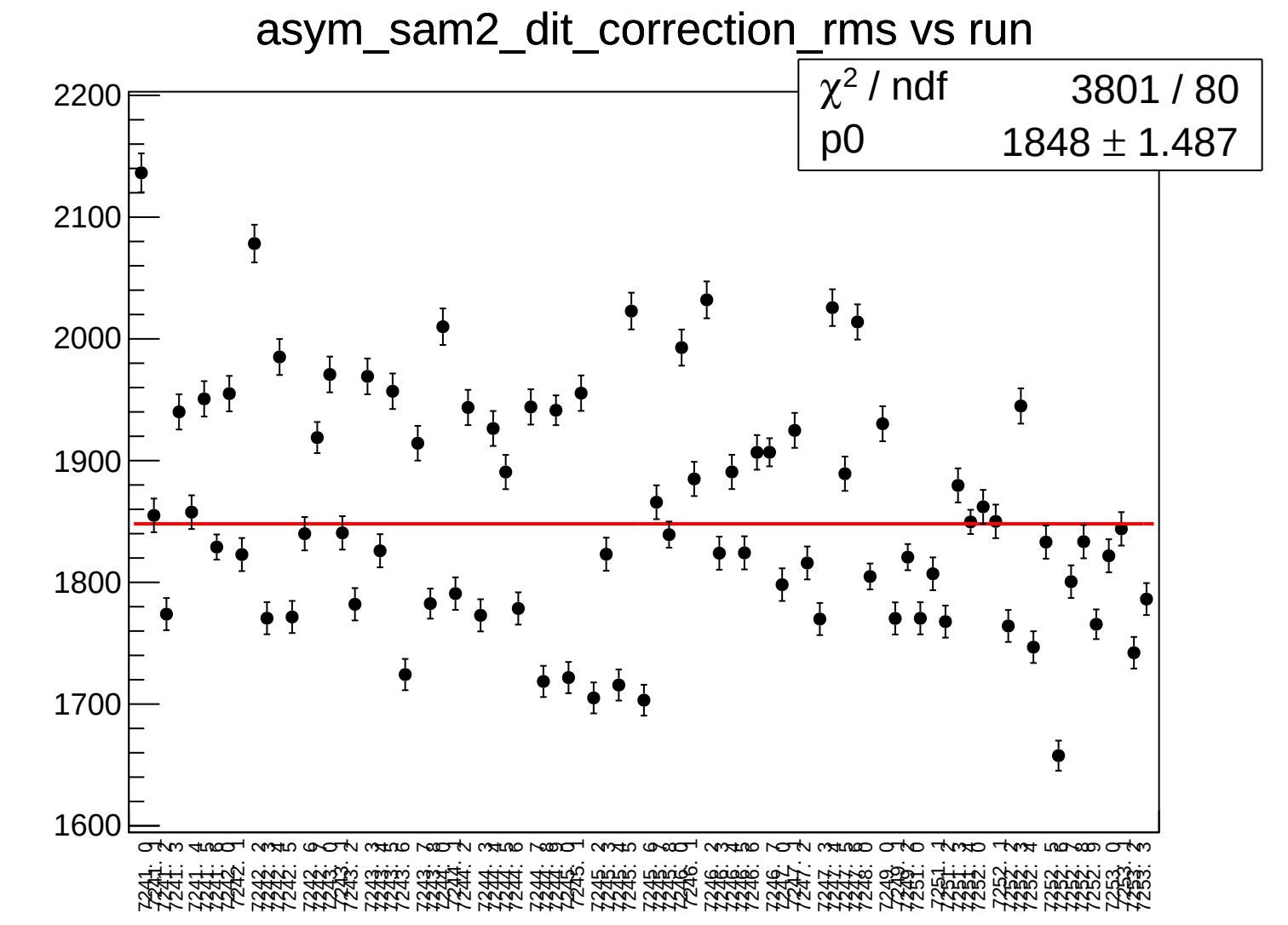

dit_asym_sam2_mean vs run
χ² / ndf 93.15 / 80
p0 −605.7 ± 300.4
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −109.7
Std Dev 0
3
2
1
0
−1
−2
−3

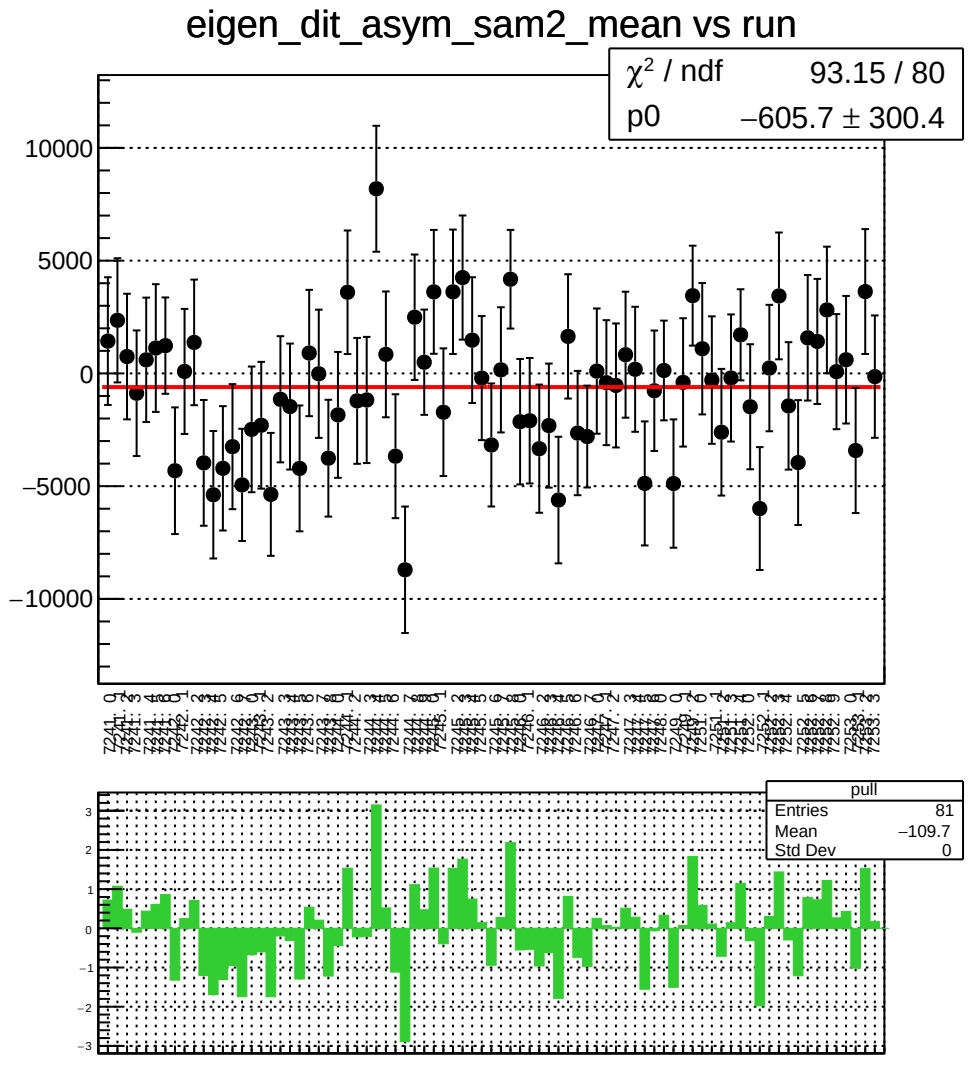

pull1D
Entries 81
Mean −0.01772
Std Dev 1.072
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

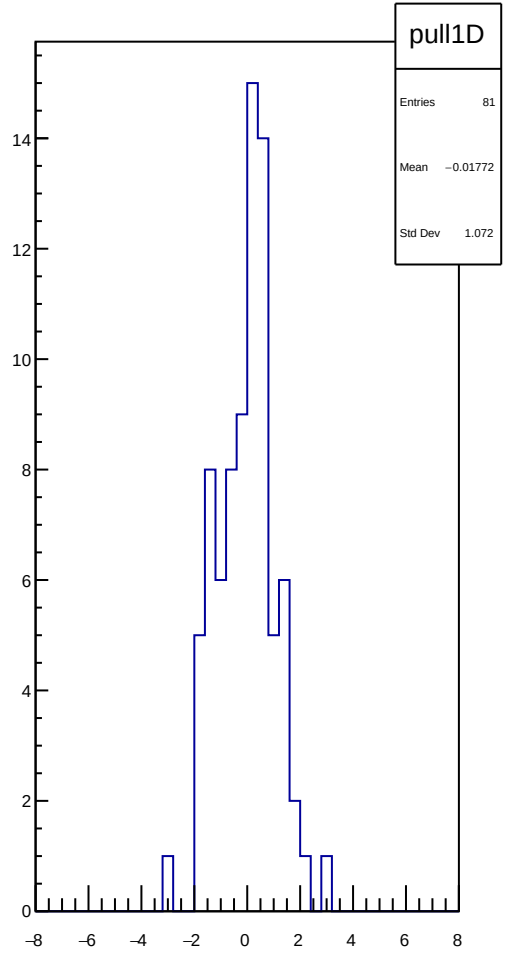

dit_asym_sam2_rms vs run
χ² / ndf 190.2 / 80
p0 264.4 ± 0.2124
280
275
270
265
260
255

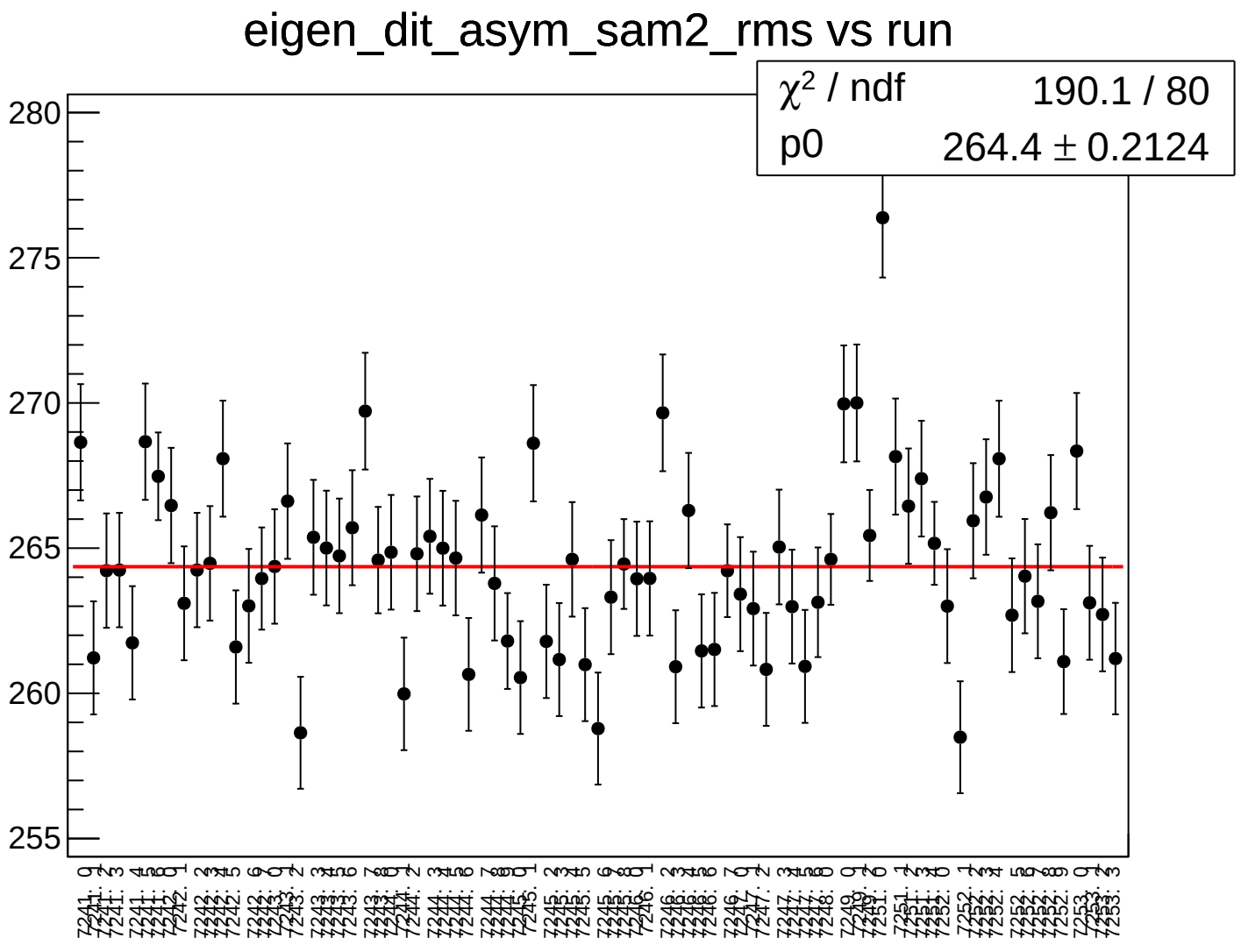

asym_sam2_dit_correction_mean vs run
χ² / ndf 78.58 / 80
p0 −1983 ± 2102
pull
Entries 81
Mean 1853
Std Dev 0

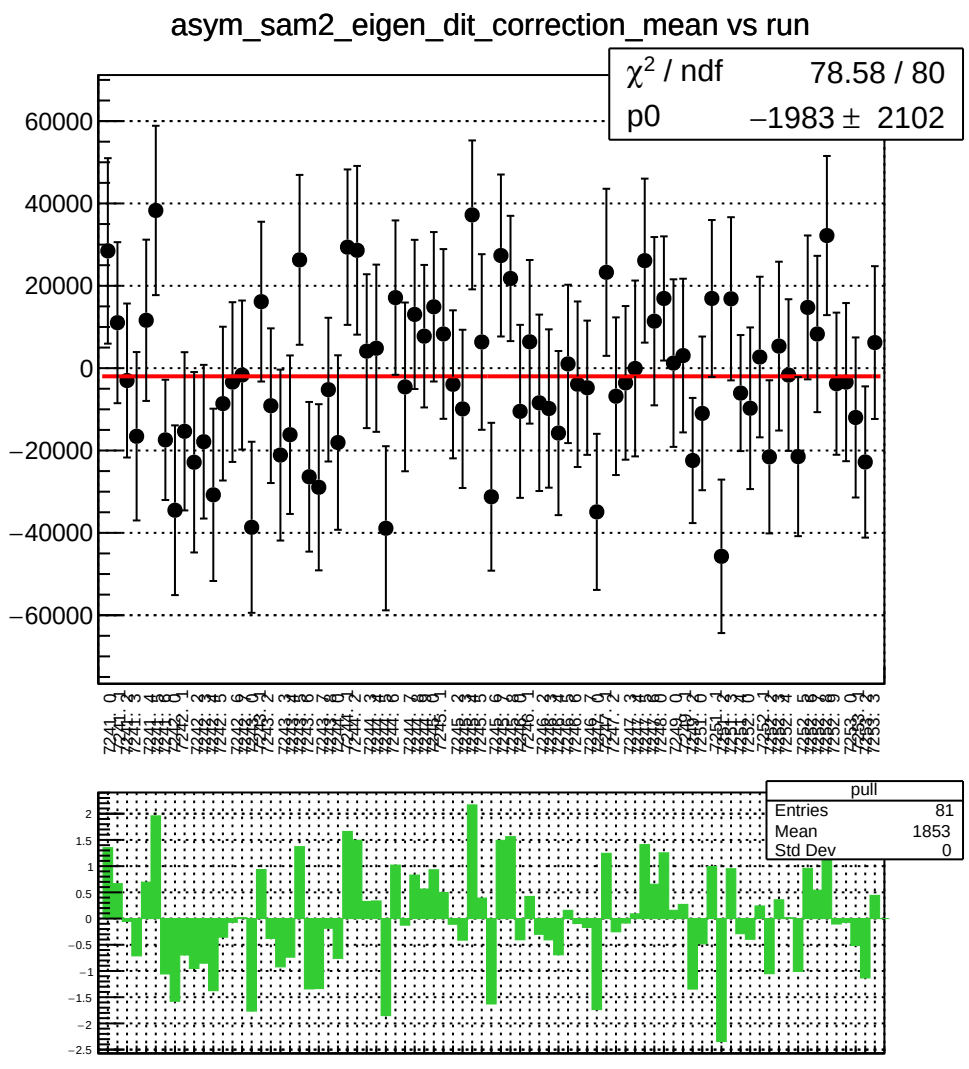

pull1D
Entries 81
Mean 0.0007538
Std Dev 0.9849

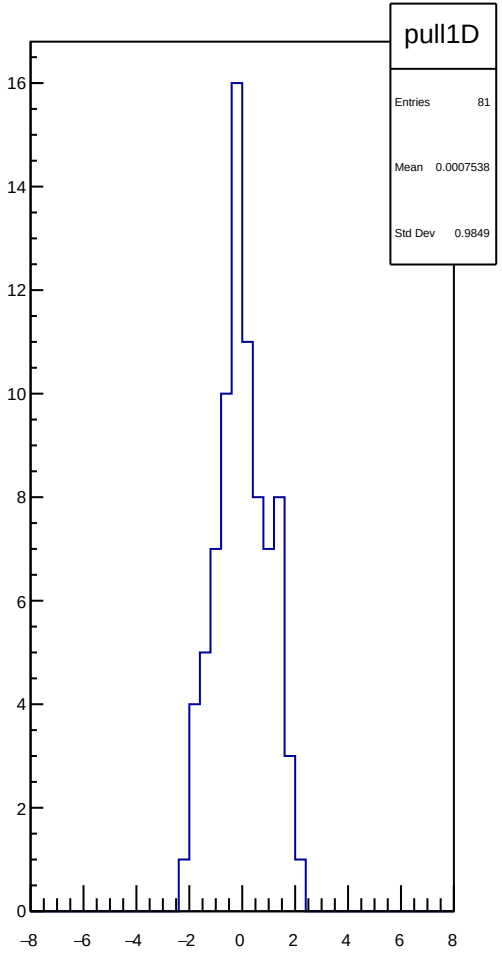

asym_sam2_dit_correction_rms vs run
χ² / ndf 3801 / 80
p0 1848 ± 1.487
2200
2100
2000
1900
1800
1700
1600

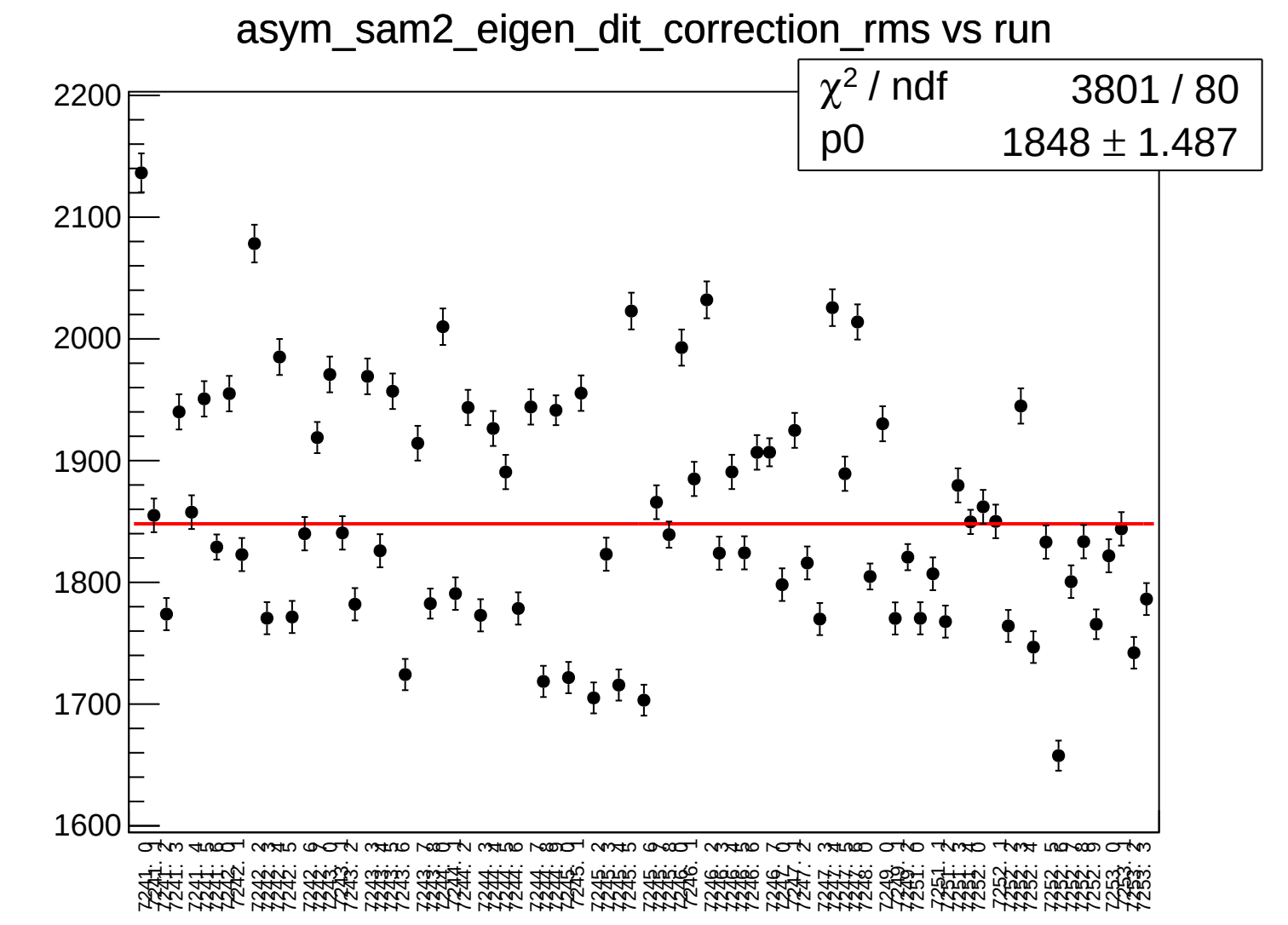

eigen_dit_asym_sam2_mean vs run
χ² / ndf 93.15 / 80
p0 −605.7 ± 300.4
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −109.7
Std Dev 0
3
2
1
0
−1
−2
−3

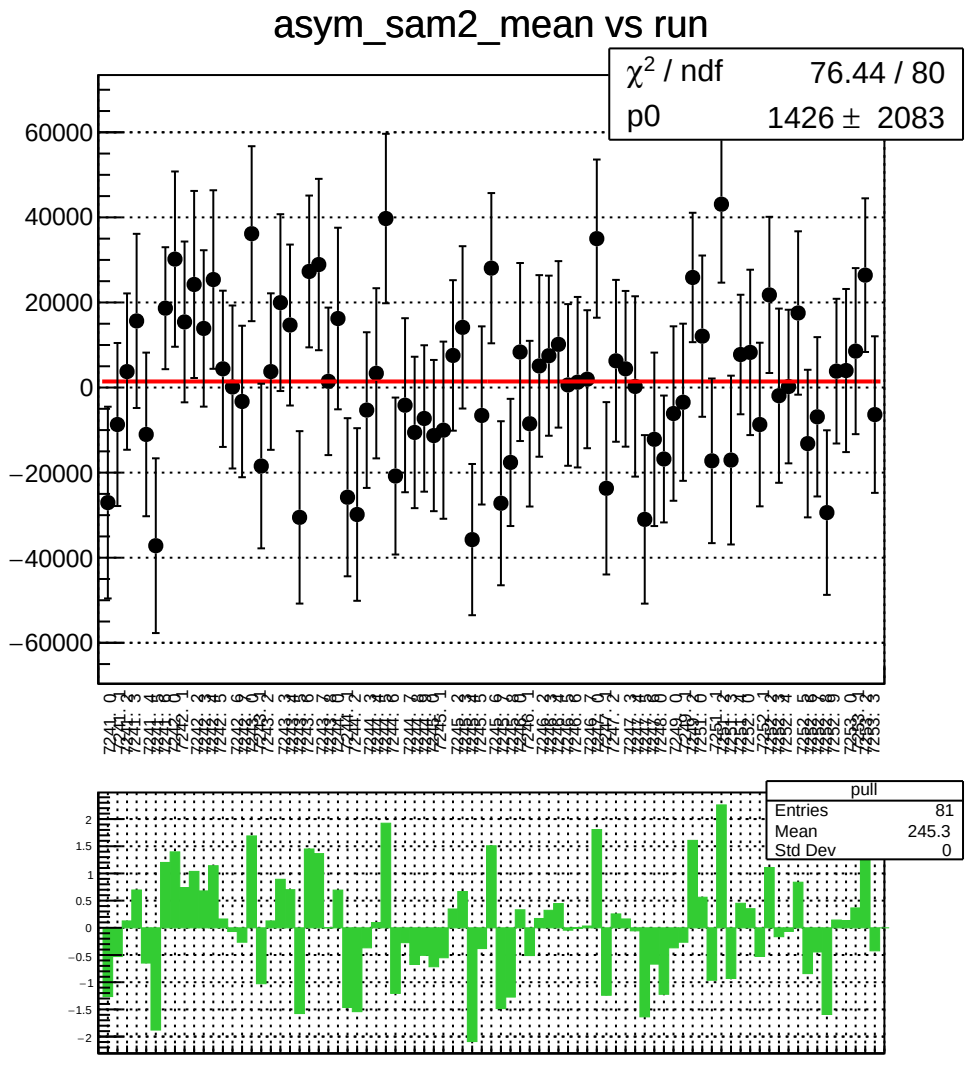

pull1D
Entries 81
Mean −0.01772
Std Dev 1.072
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

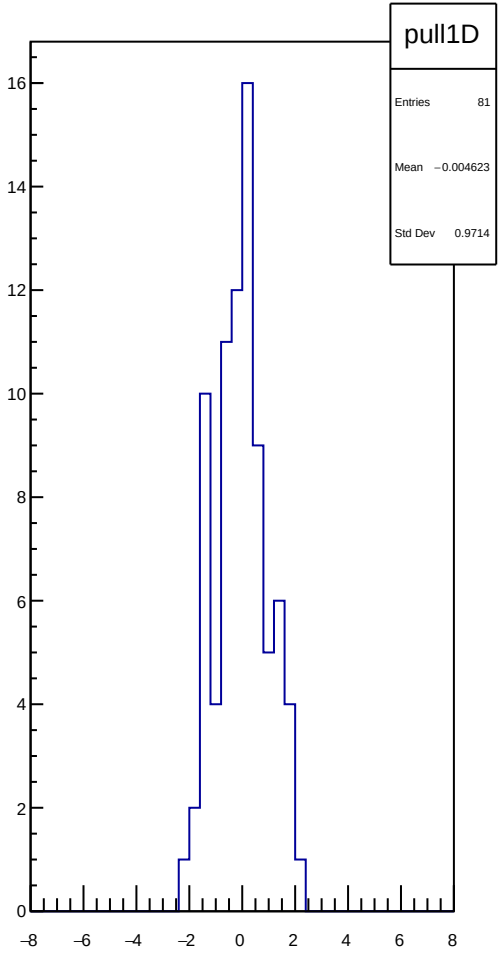

eigen_dit_asym_sam2_rms vs run
χ² / ndf 190.1 / 80
p0 264.4 ± 0.2124
280
275
270
265
260
255

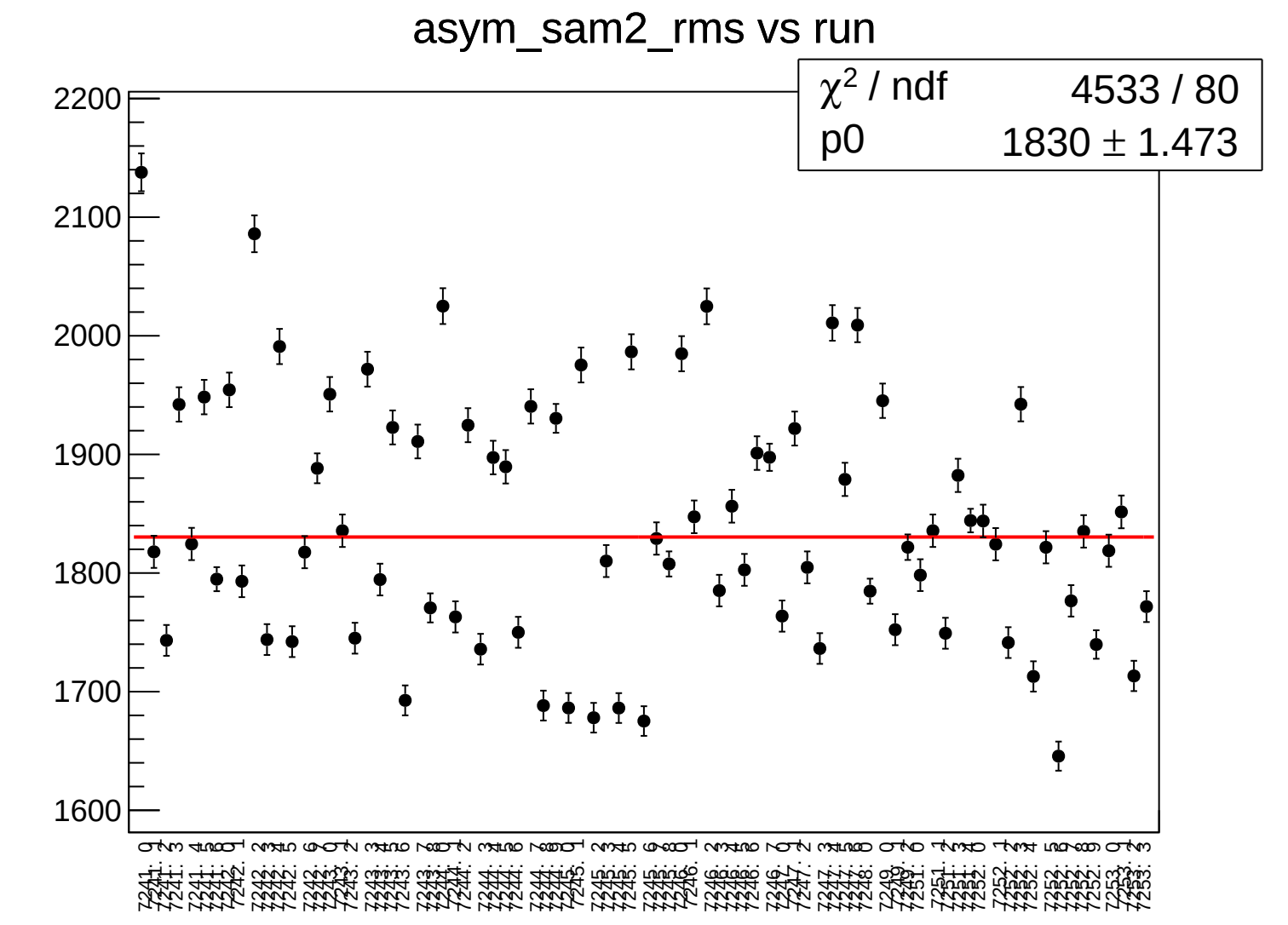

asym_sam2_eigen_dit_correction_mean vs run
χ² / ndf 78.58 / 80
p0 −1983 ± 2102
pull
Entries 81
Mean 1853
Std Dev 0

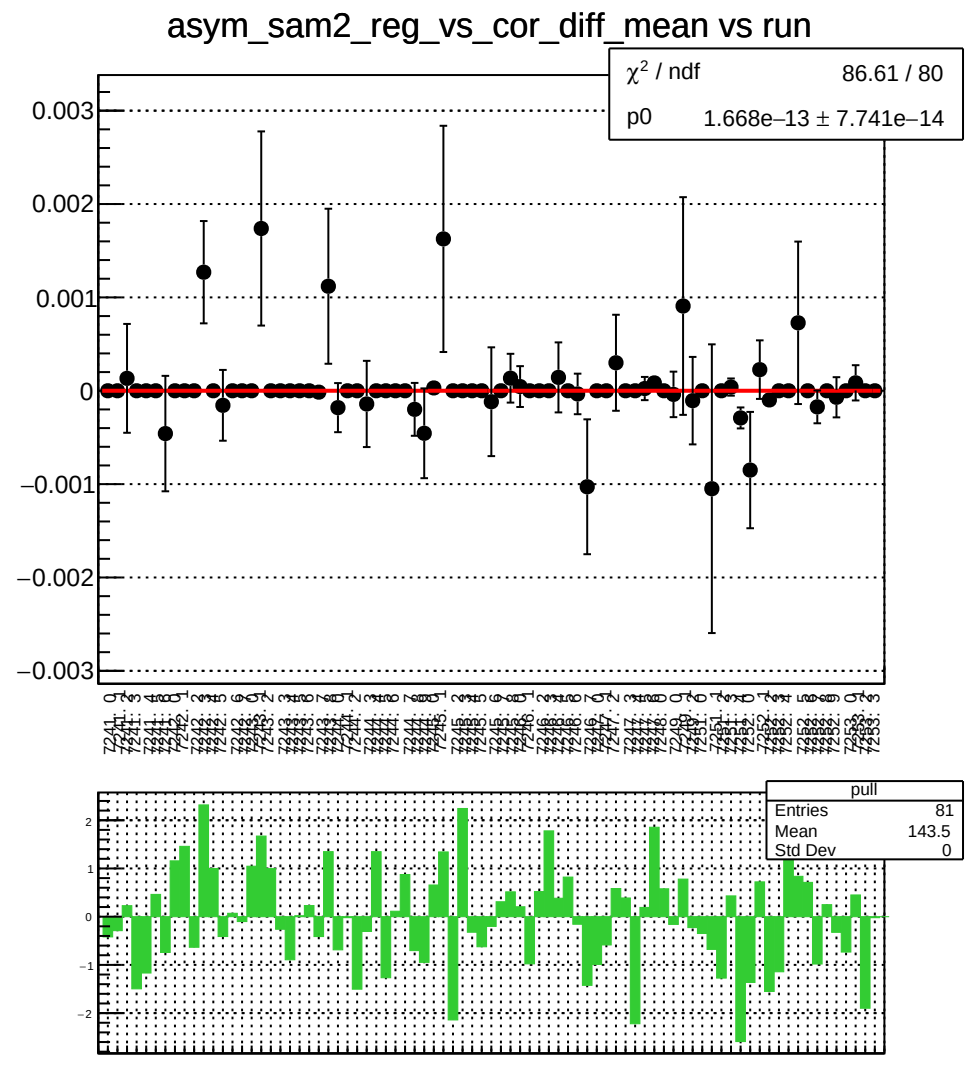

pull1D
Entries 81
Mean 0.0007538
Std Dev 0.9849

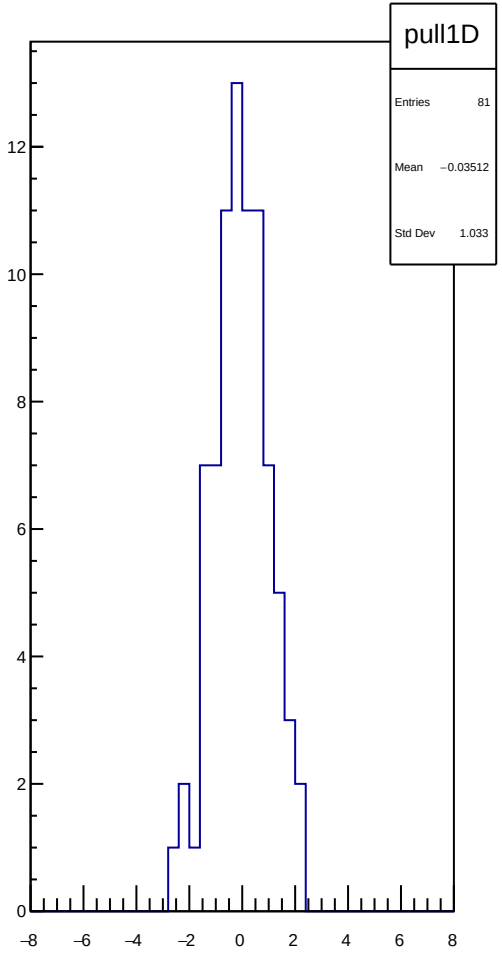

asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 3801 / 80
p0 1848 ± 1.487
2200
2100
2000
1900
1800
1700
1600

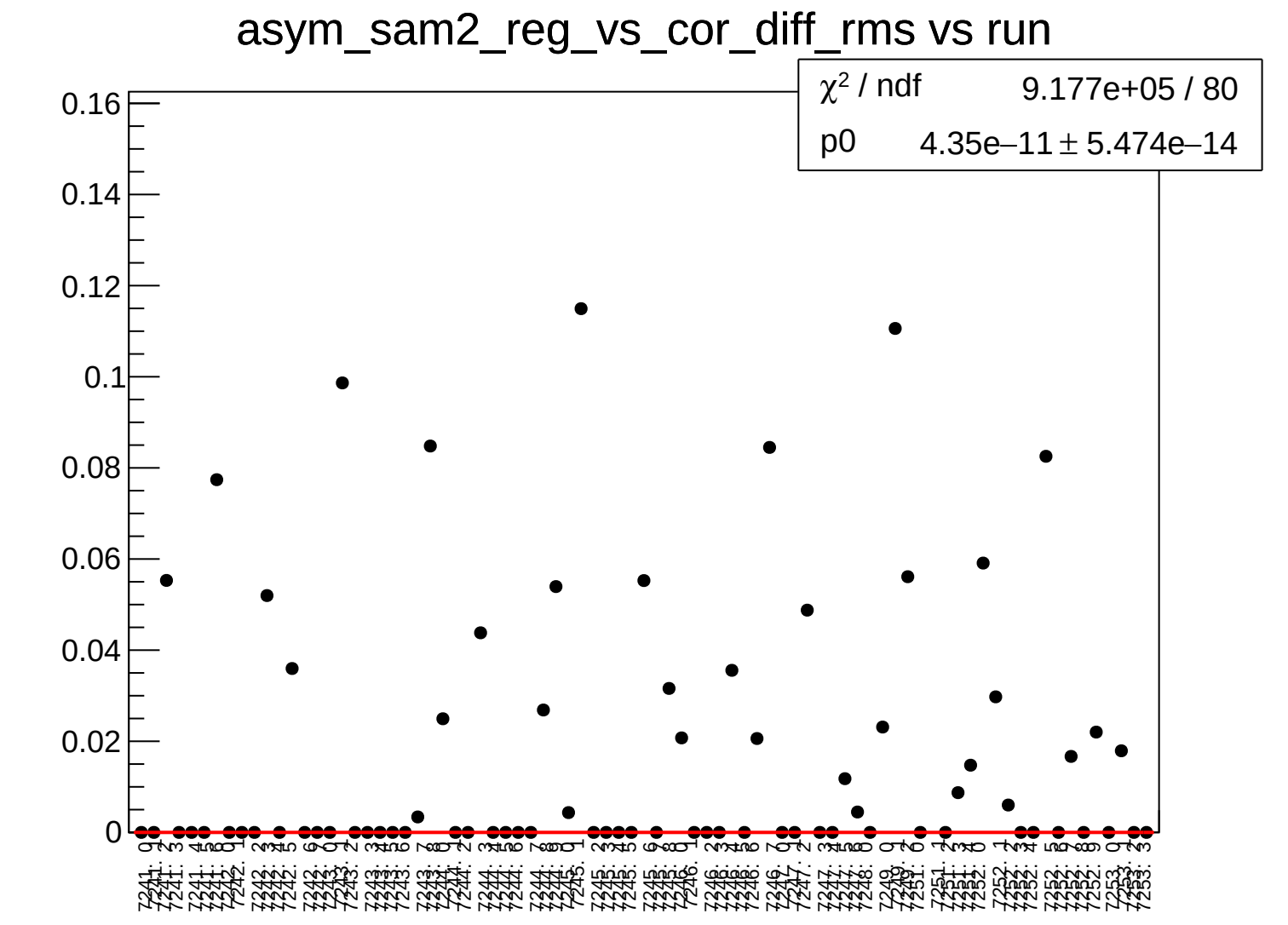

asym_sam2_mean vs run
χ² / ndf 76.44 / 80
p0 1426 ± 2083
pull
Entries 81
Mean 245.3
Std Dev 0

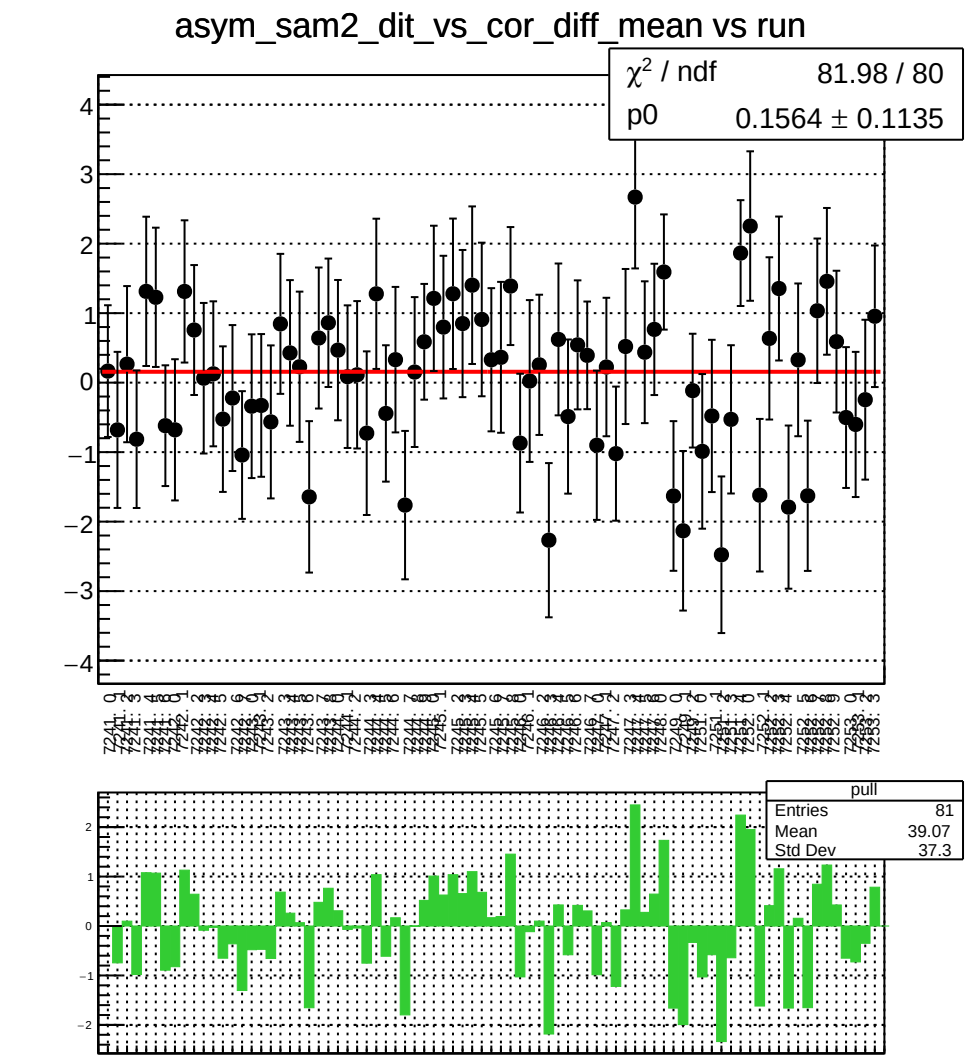

pull1D
Entries 81
Mean −0.004623
Std Dev 0.9714

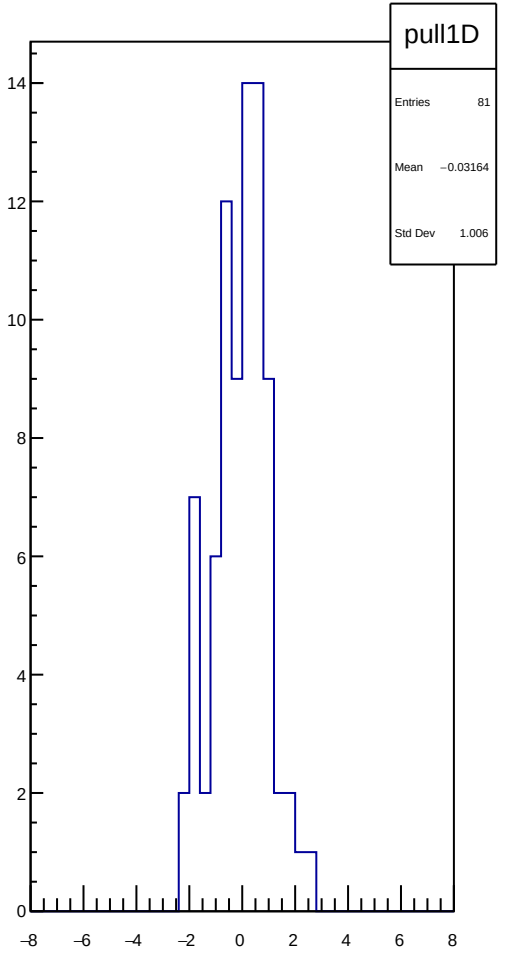

asym_sam2_rms vs run
χ² / ndf 4533 / 80
p0 1830 ± 1.473
2200
2100
2000
1900
1800
1700
1600

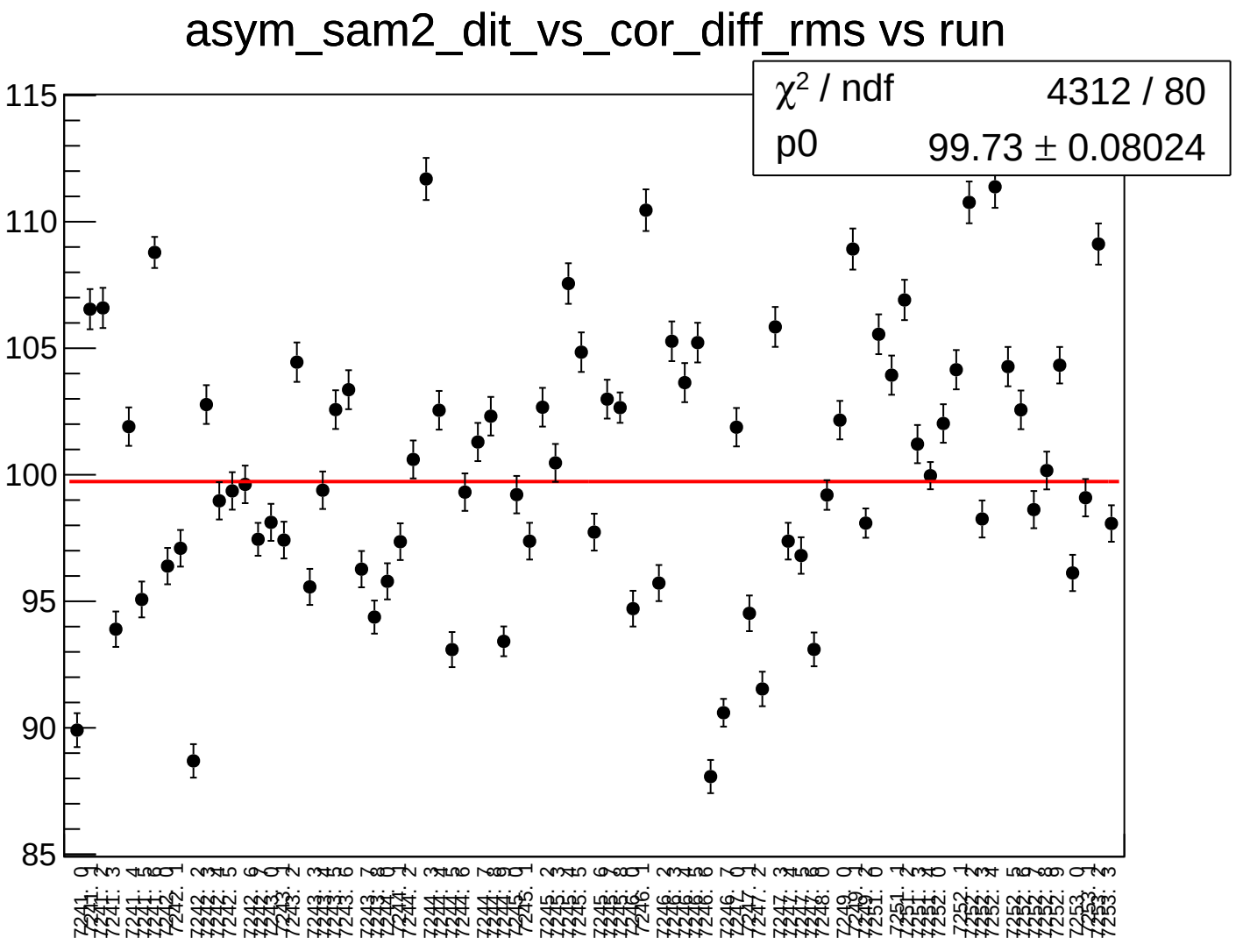

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 86.61 / 80
p0 1.668e−13 ± 7.741e−14
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 81
Mean 143.5
Std Dev 0
2
1
0
−1
−2

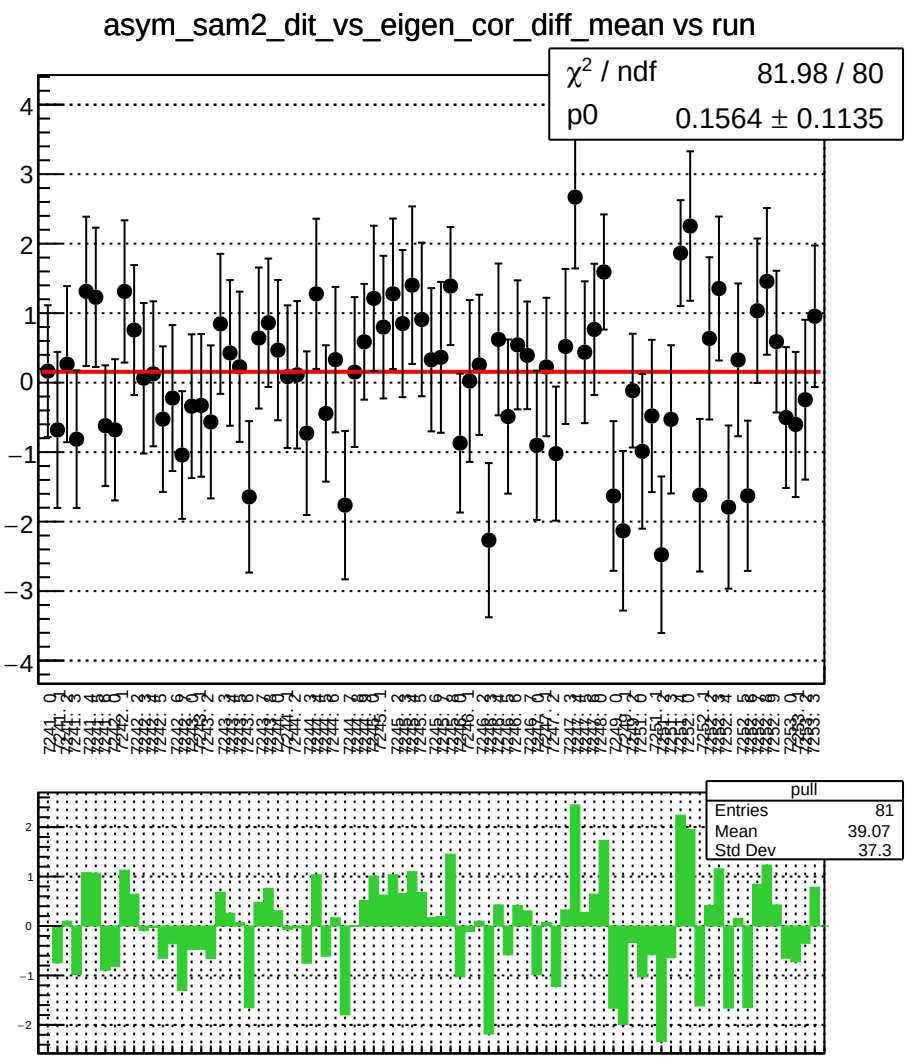

pull1D
Entries 81
Mean −0.03512
Std Dev 1.033
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

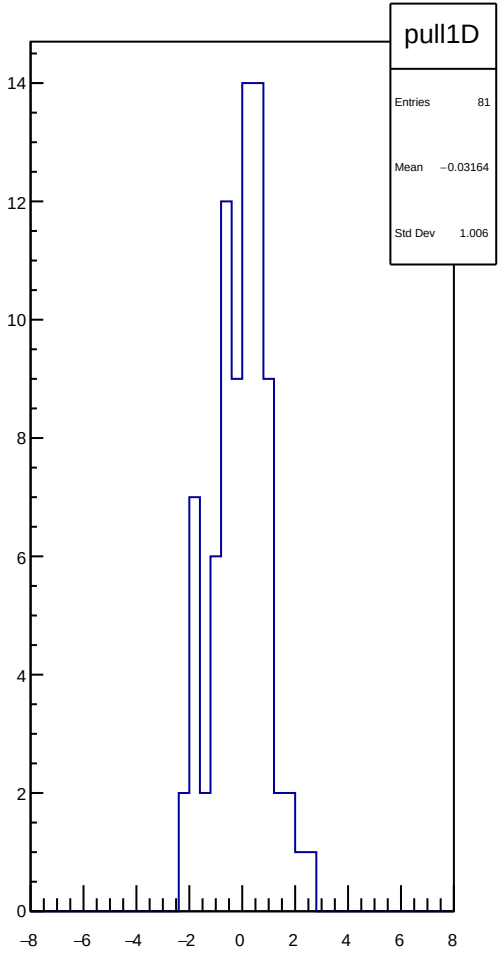

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 9.177e+05 / 80
p0 4.35e−11 ± 5.474e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

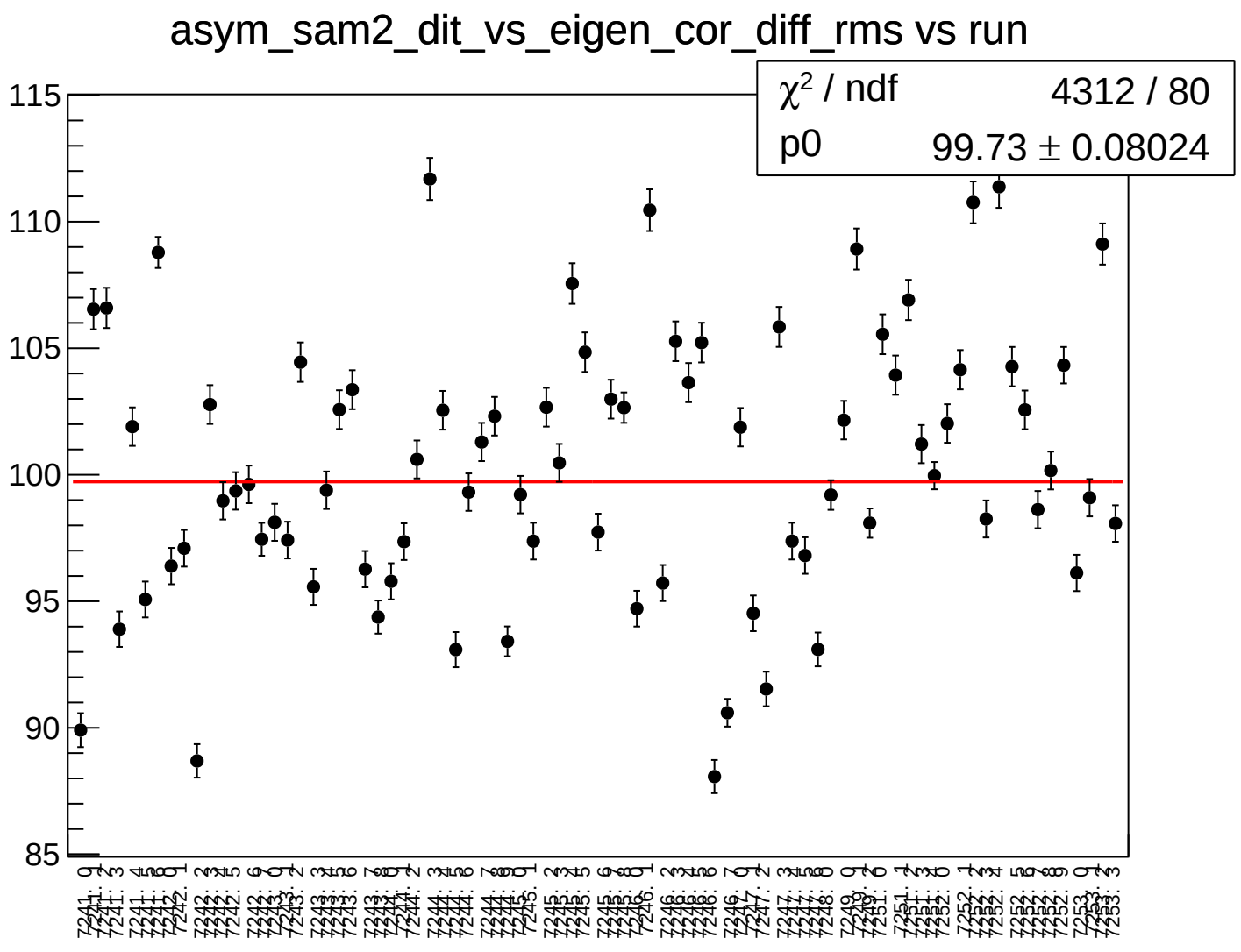

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 81.98 / 80
p0 0.1564 ± 0.1135
pull
Entries 81
Mean 39.07
Std Dev 37.3

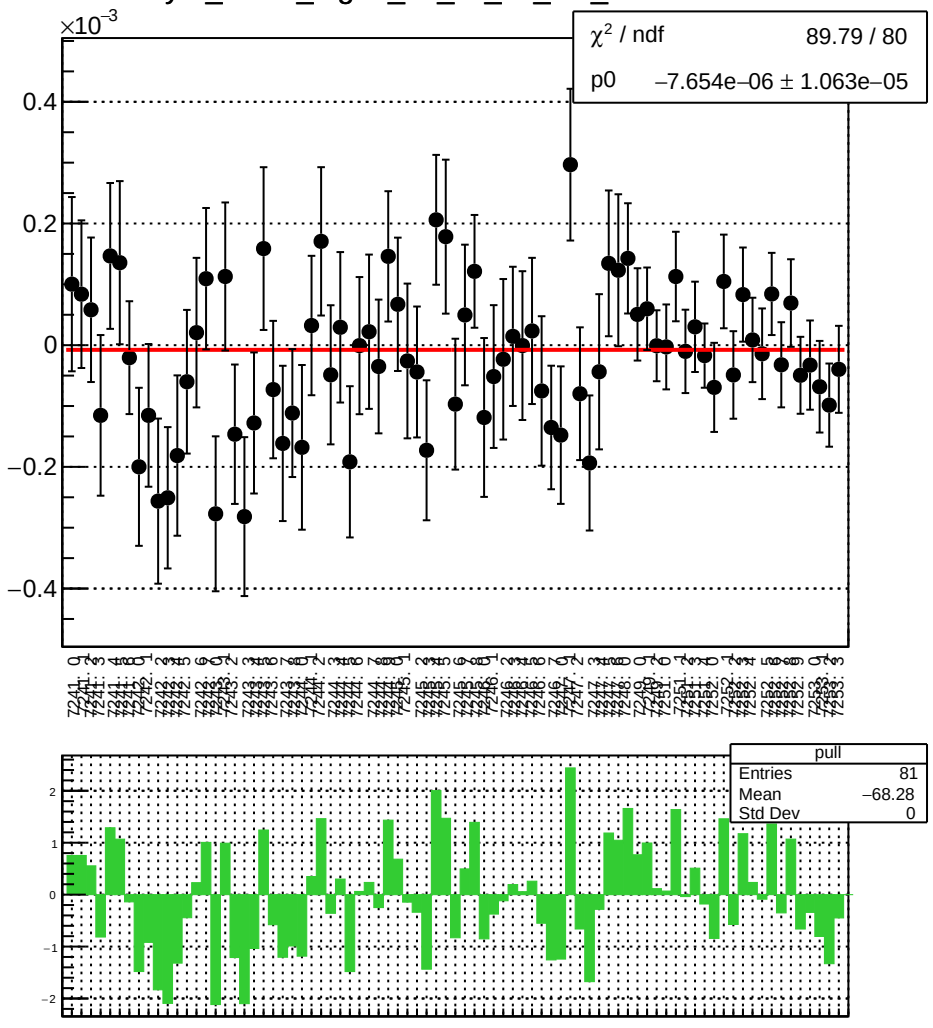

pull1D
Entries 81
Mean −0.03164
Std Dev 1.006

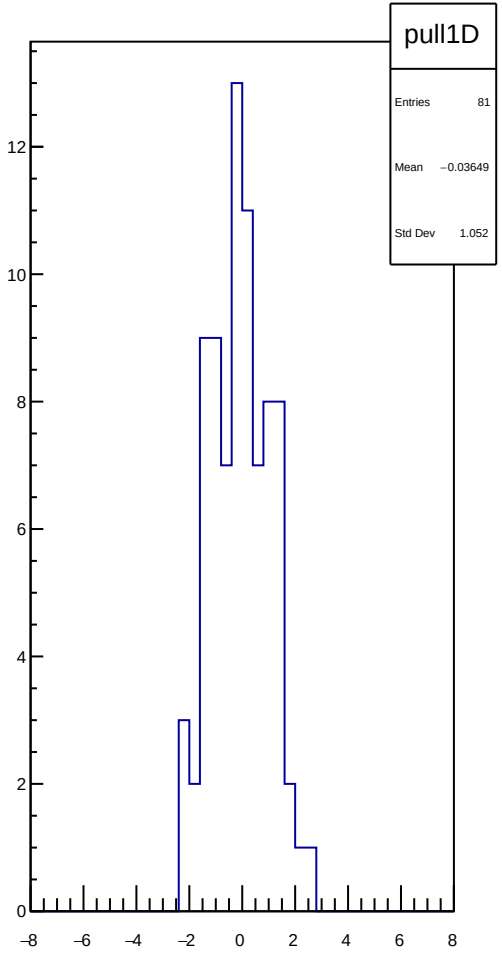

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 4312 / 80
p0 99.73 ± 0.08024
115
110
105
100
95
90
85

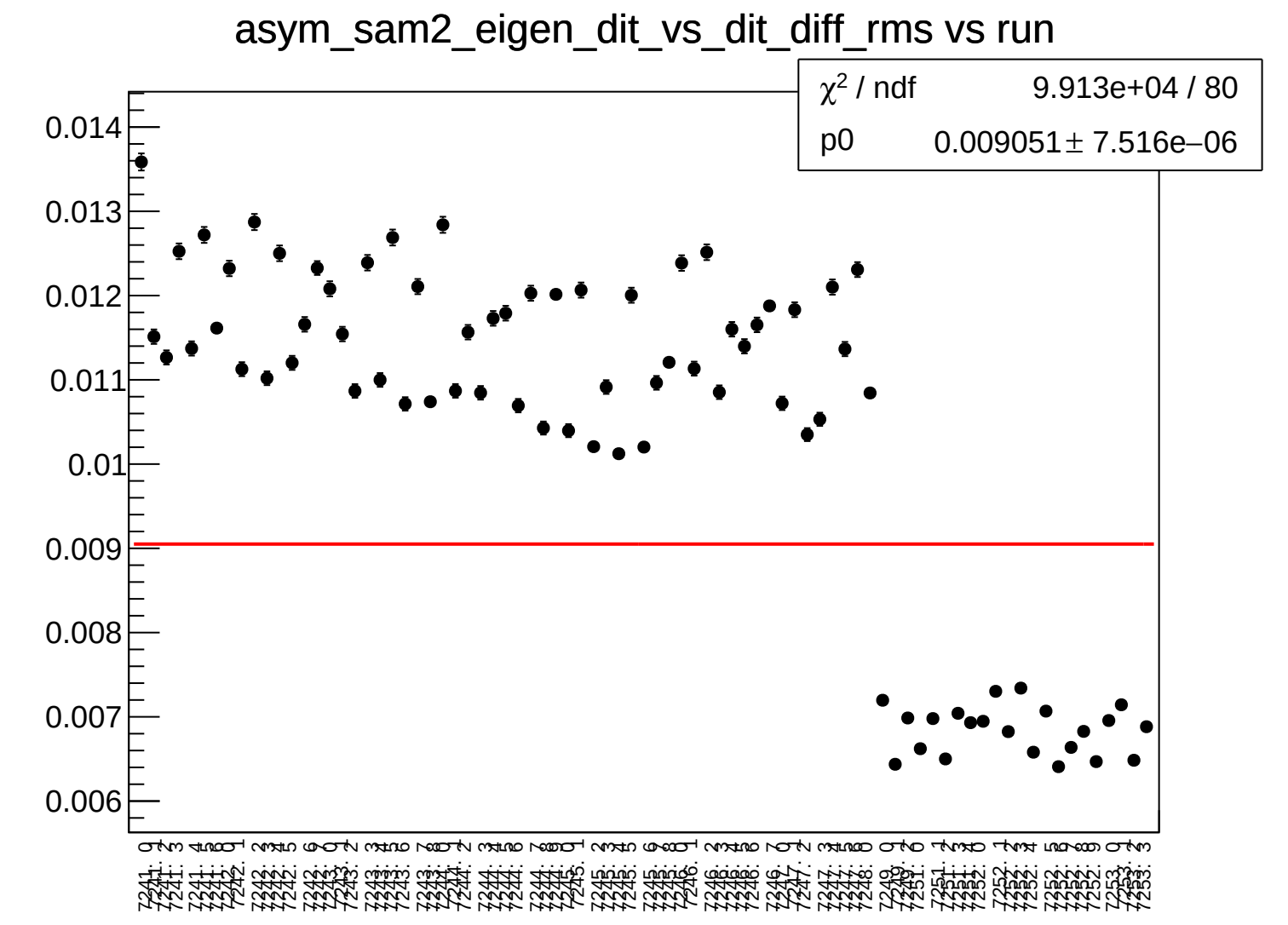

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.98 / 80
p0 0.1564 ± 0.1135
pull
Entries 81
Mean 39.07
Std Dev 37.3

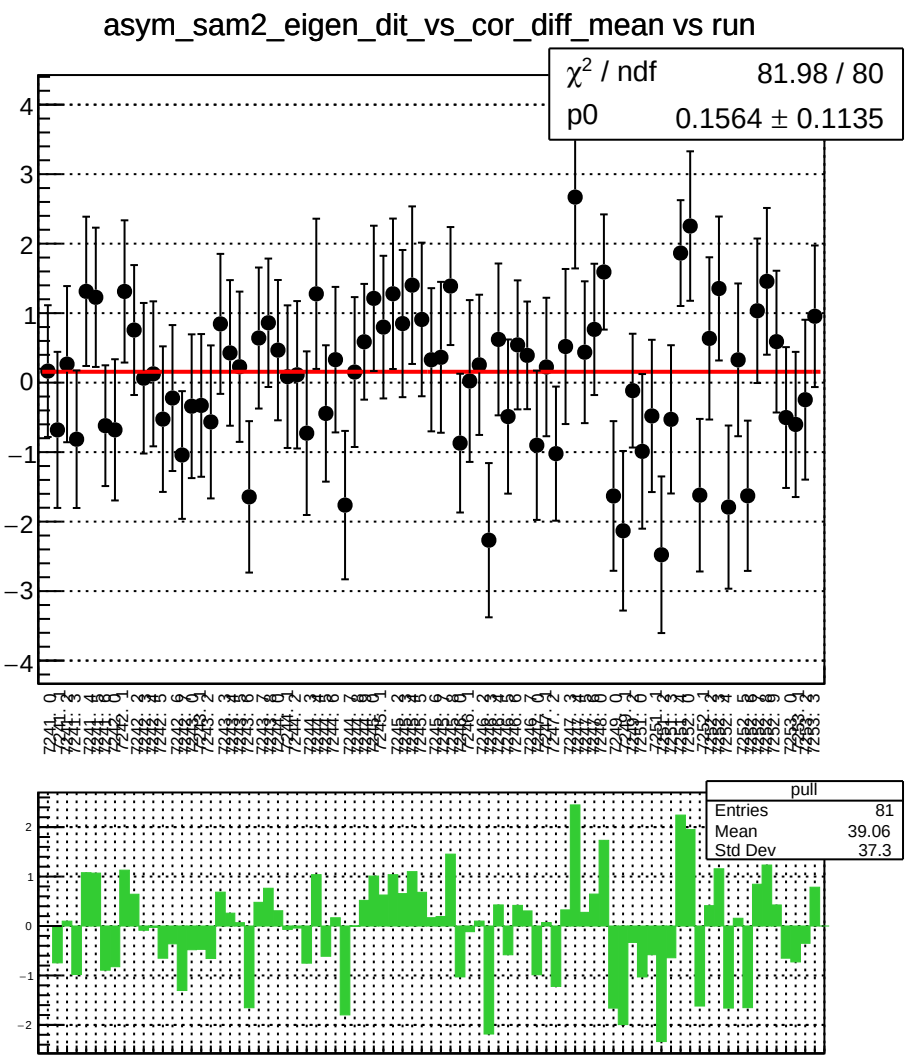

pull1D
Entries 81
Mean −0.03164
Std Dev 1.006

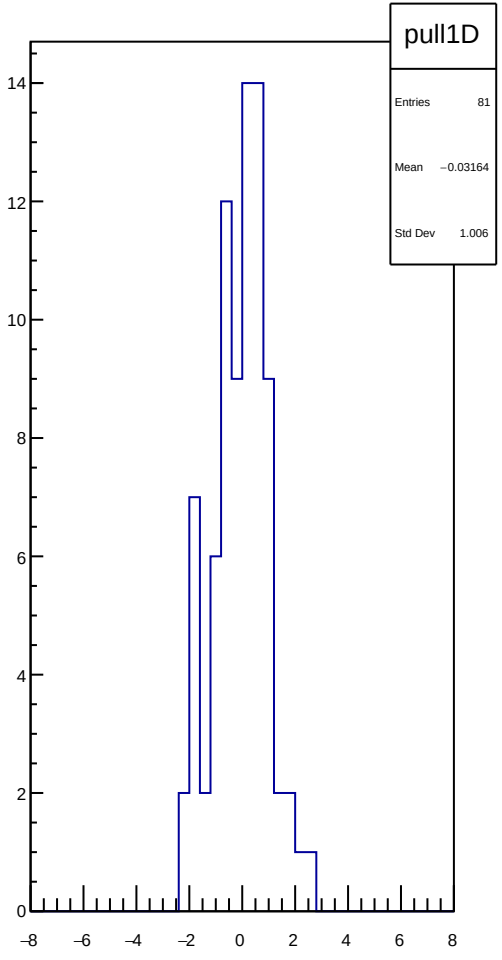

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4312 / 80
p0 99.73 ± 0.08024
115
110
105
100
95
90
85

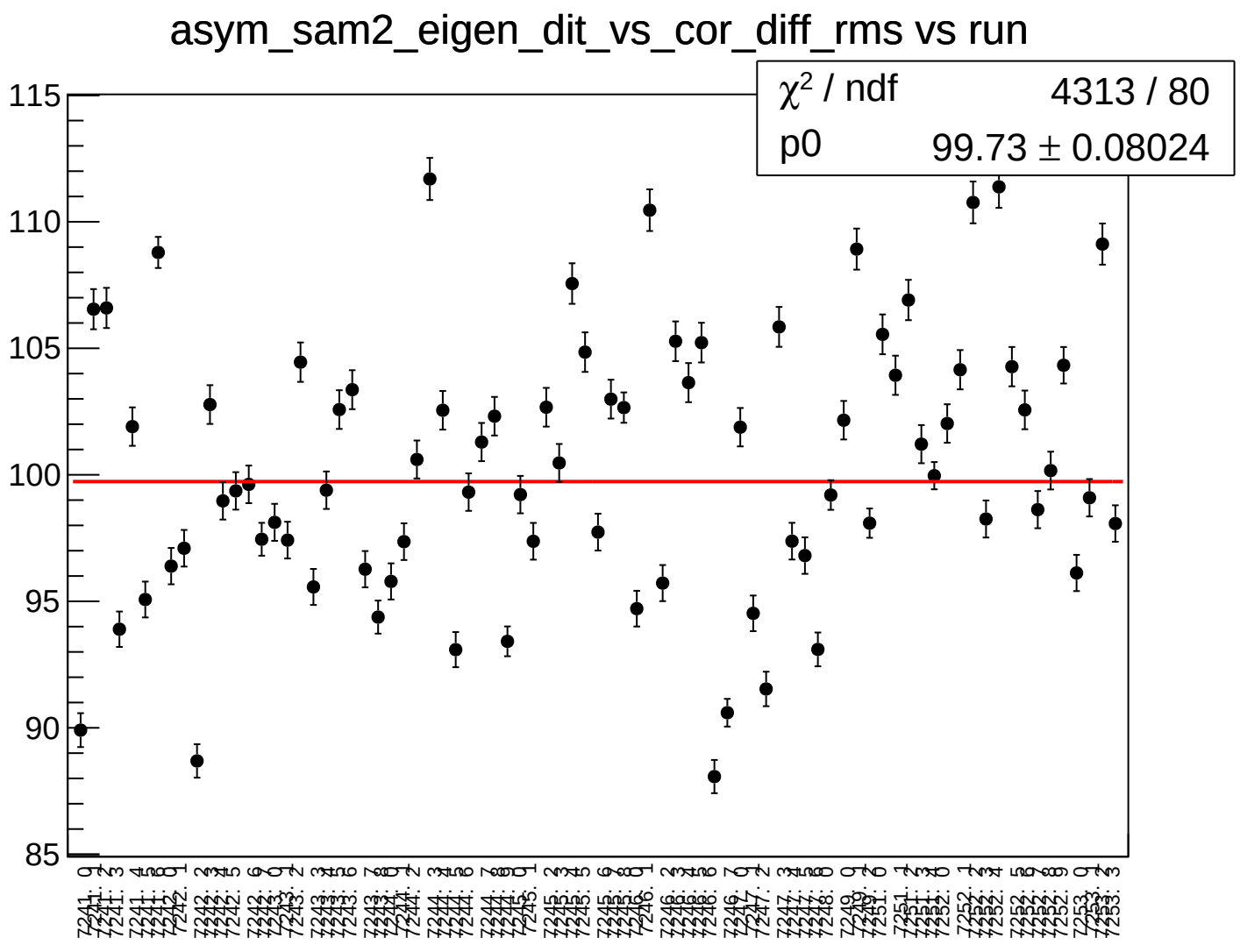

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.79 / 80
p0 −7.654e−06 ± 1.063e−05
pull
Entries 81
Mean −68.28
Std Dev 0

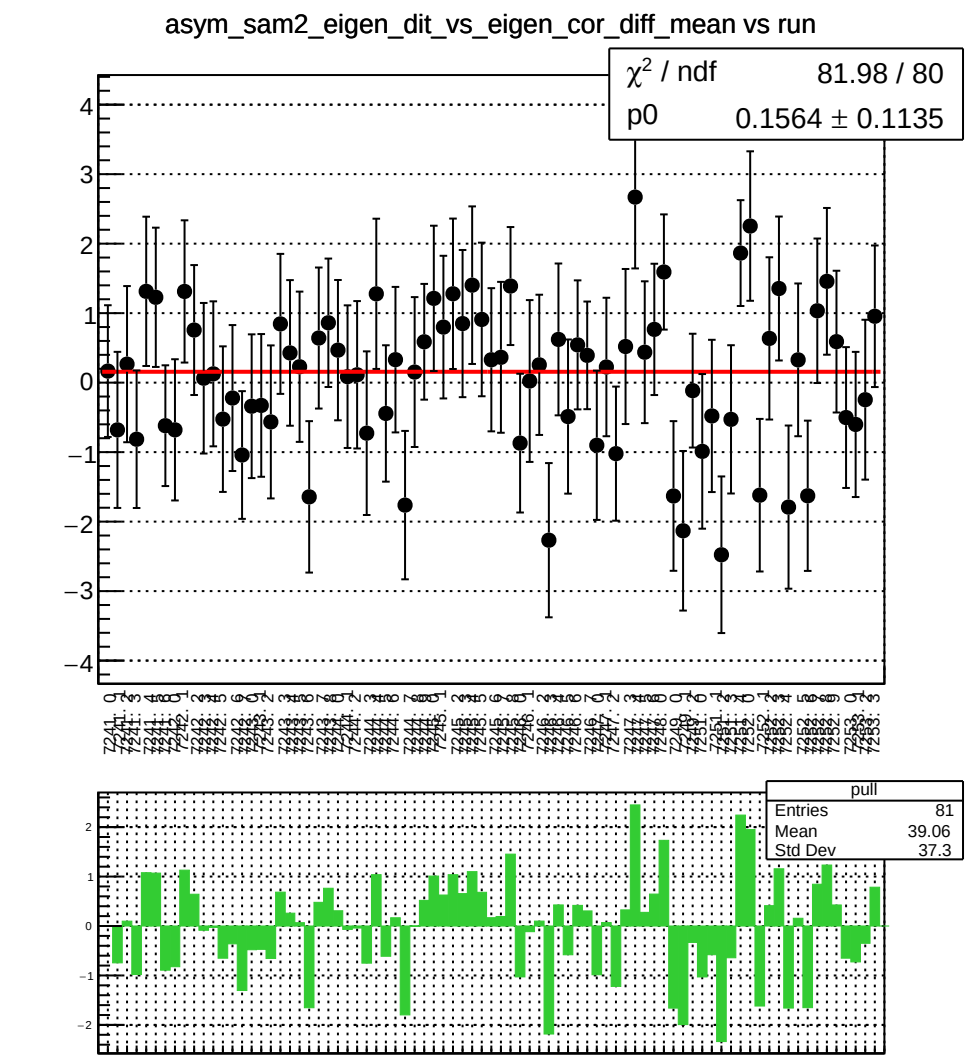

pull1D
Entries 81
Mean −0.03649
Std Dev 1.052

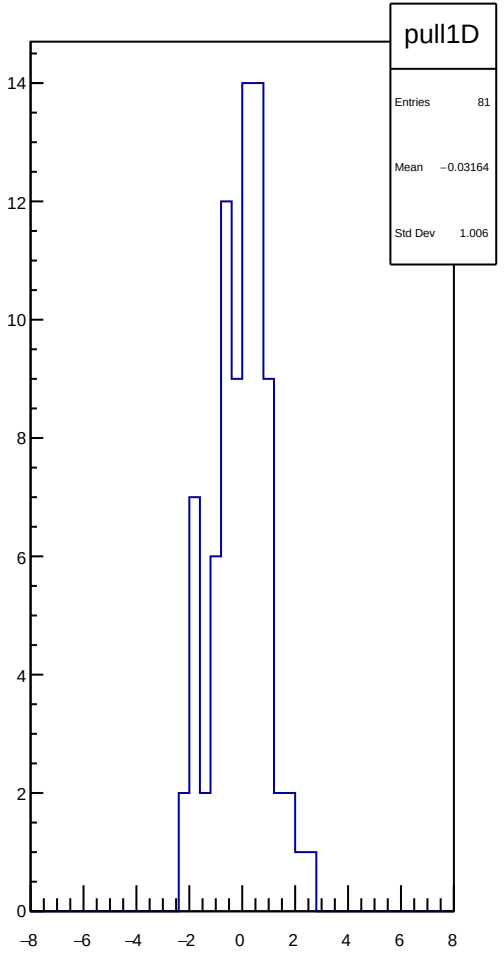

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.913e+04 / 80
p0 0.009051 ± 7.516e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006

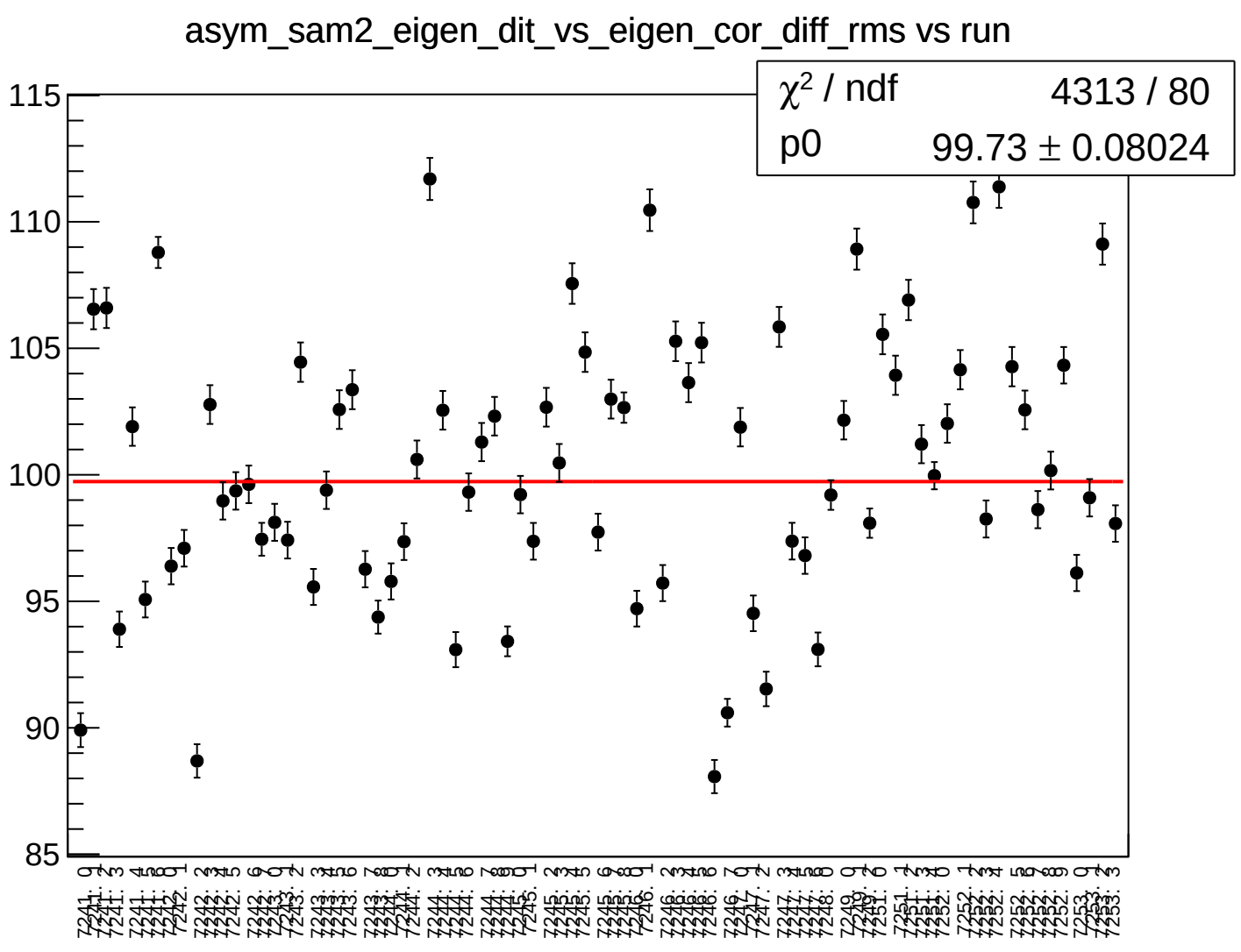

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.98 / 80
p0 0.1564 ± 0.1135
pull
Entries 81
Mean 39.06
Std Dev 37.3

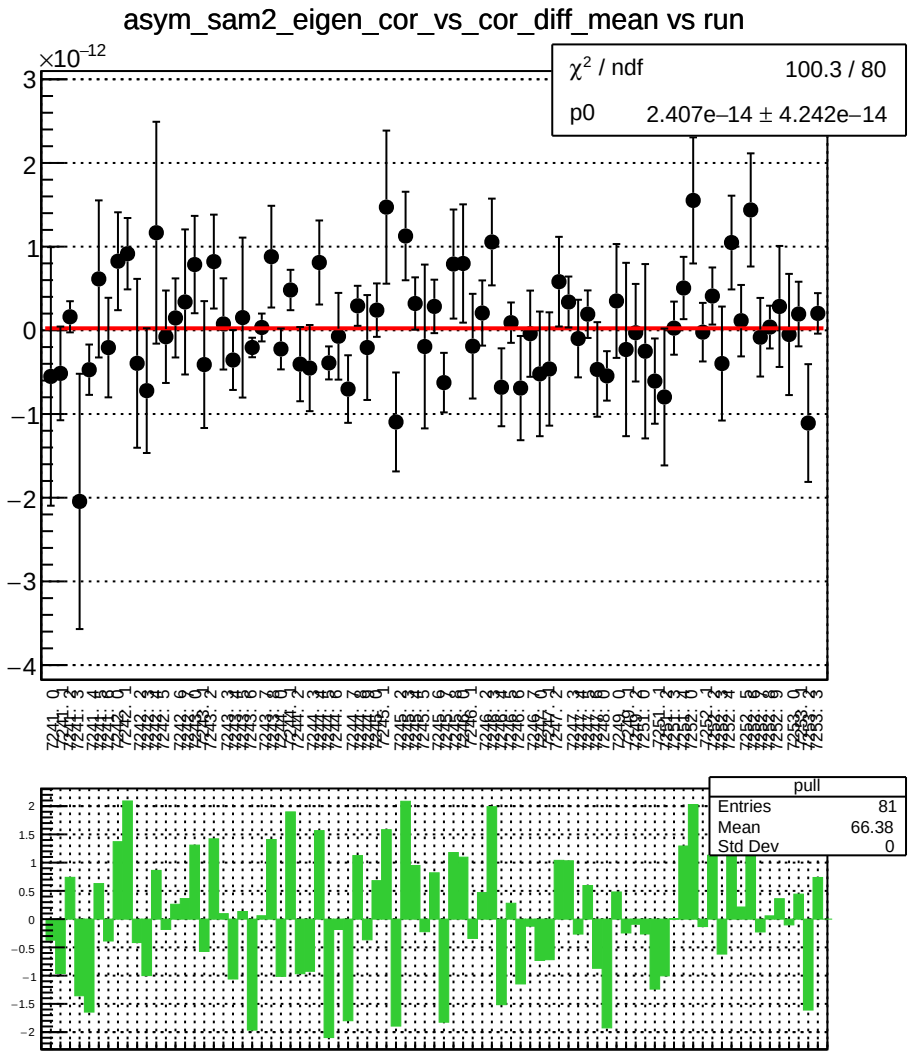

pull1D
Entries 81
Mean −0.03164
Std Dev 1.006

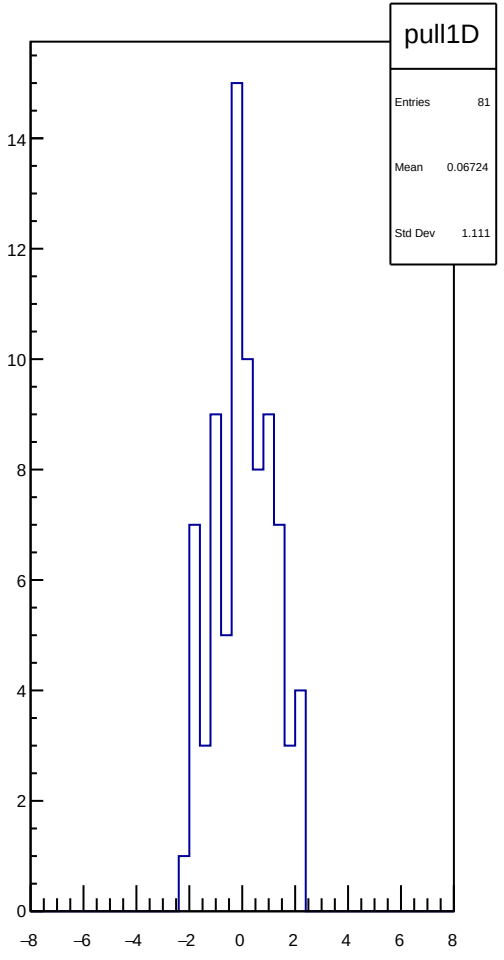

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4313 / 80
p0 99.73 ± 0.08024
115
110
105
100
95
90
85

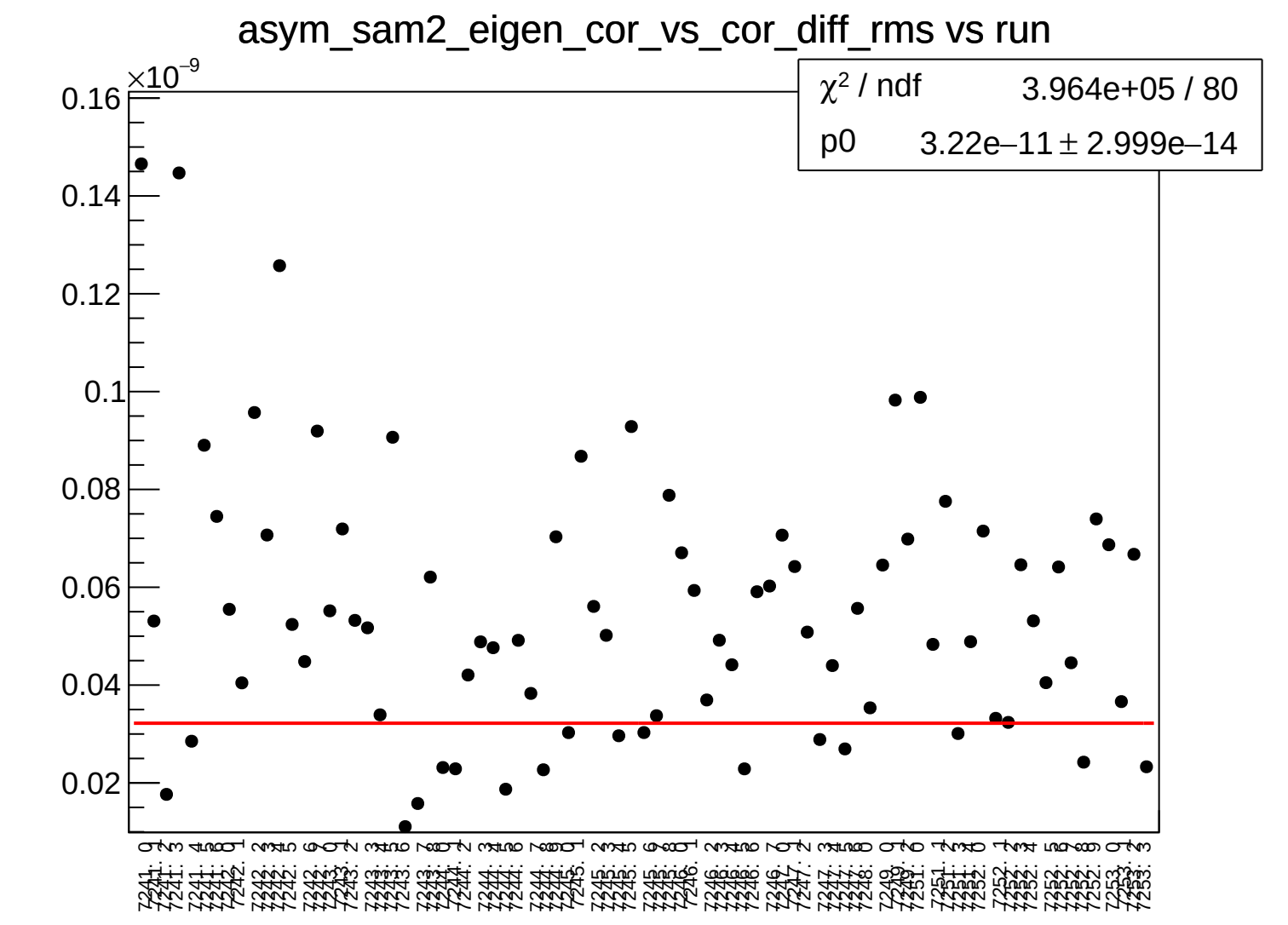

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.98 / 80
p0 0.1564 ± 0.1135
pull
Entries 81
Mean 39.06
Std Dev 37.3

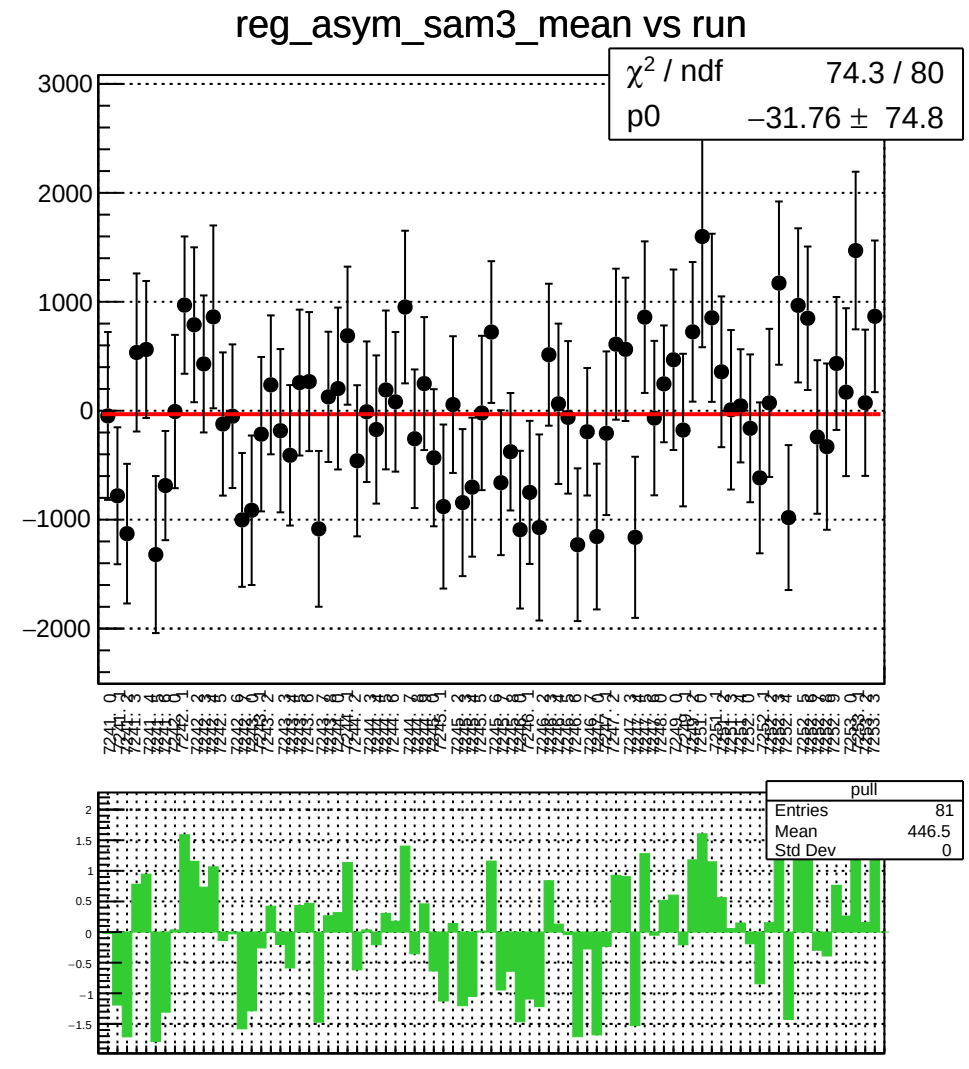

pull1D
Entries 81
Mean −0.03164
Std Dev 1.006

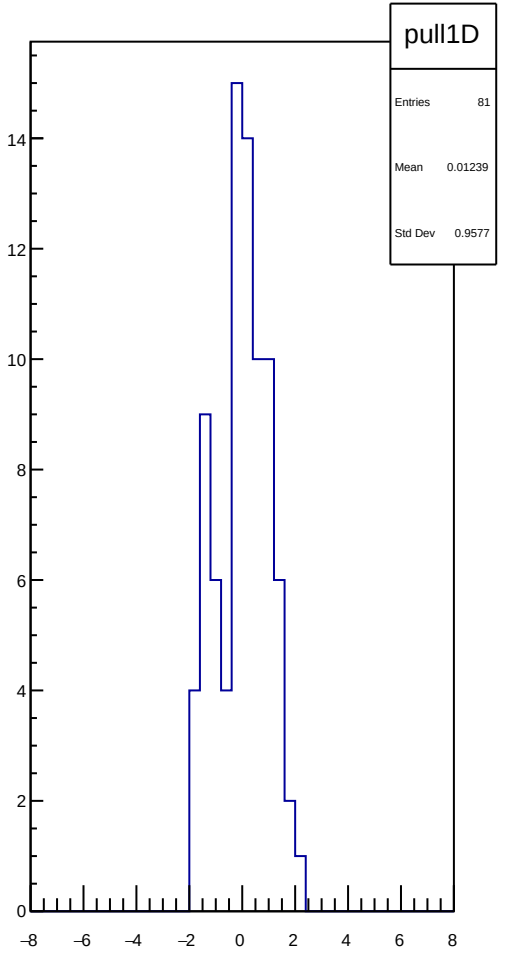

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4313 / 80
p0 99.73 ± 0.08024
115
110
105
100
95
90
85

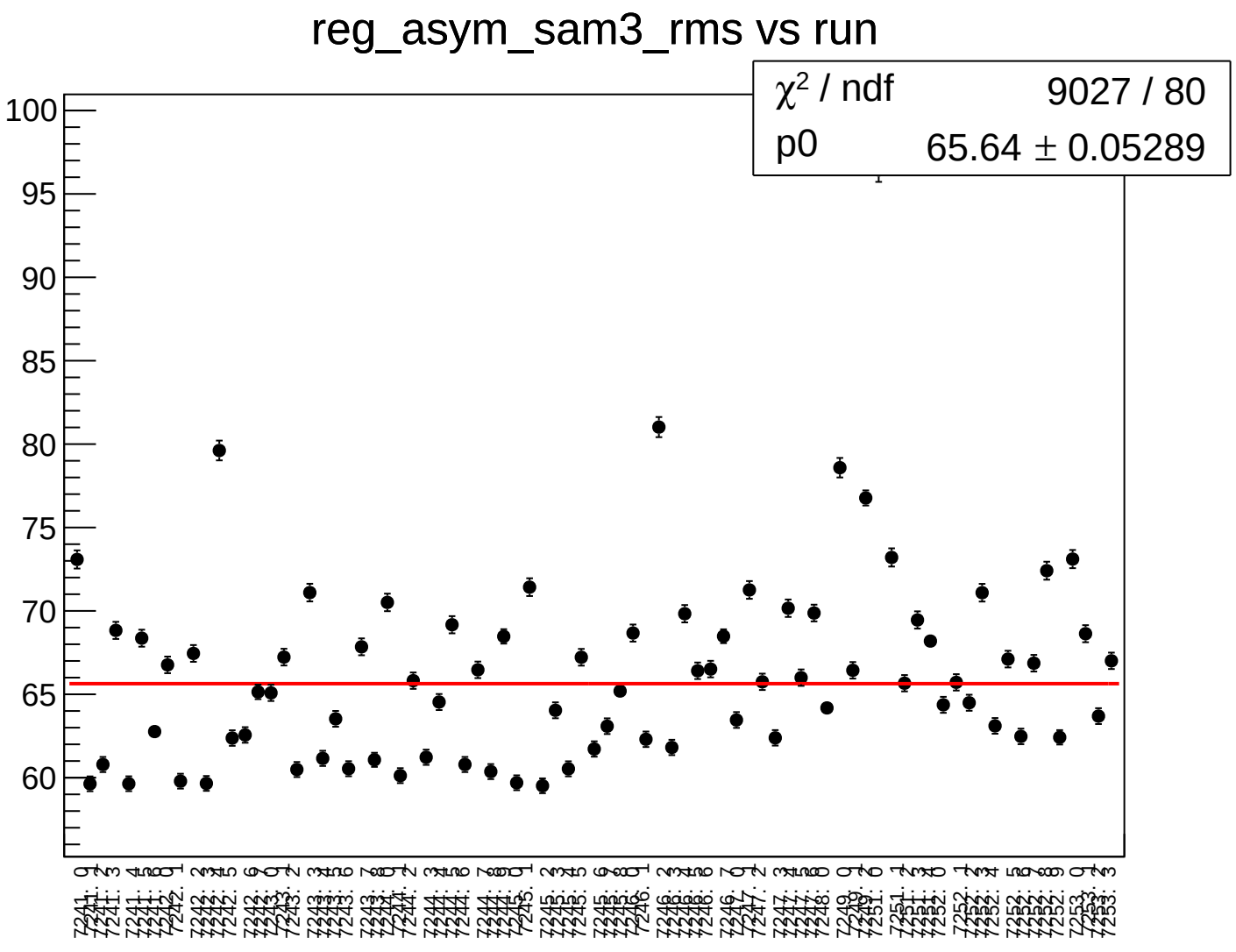

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 100.3 / 80
p0 2.407e−14 ± 4.242e−14
pull
Entries 81
Mean 66.38
Std Dev 0

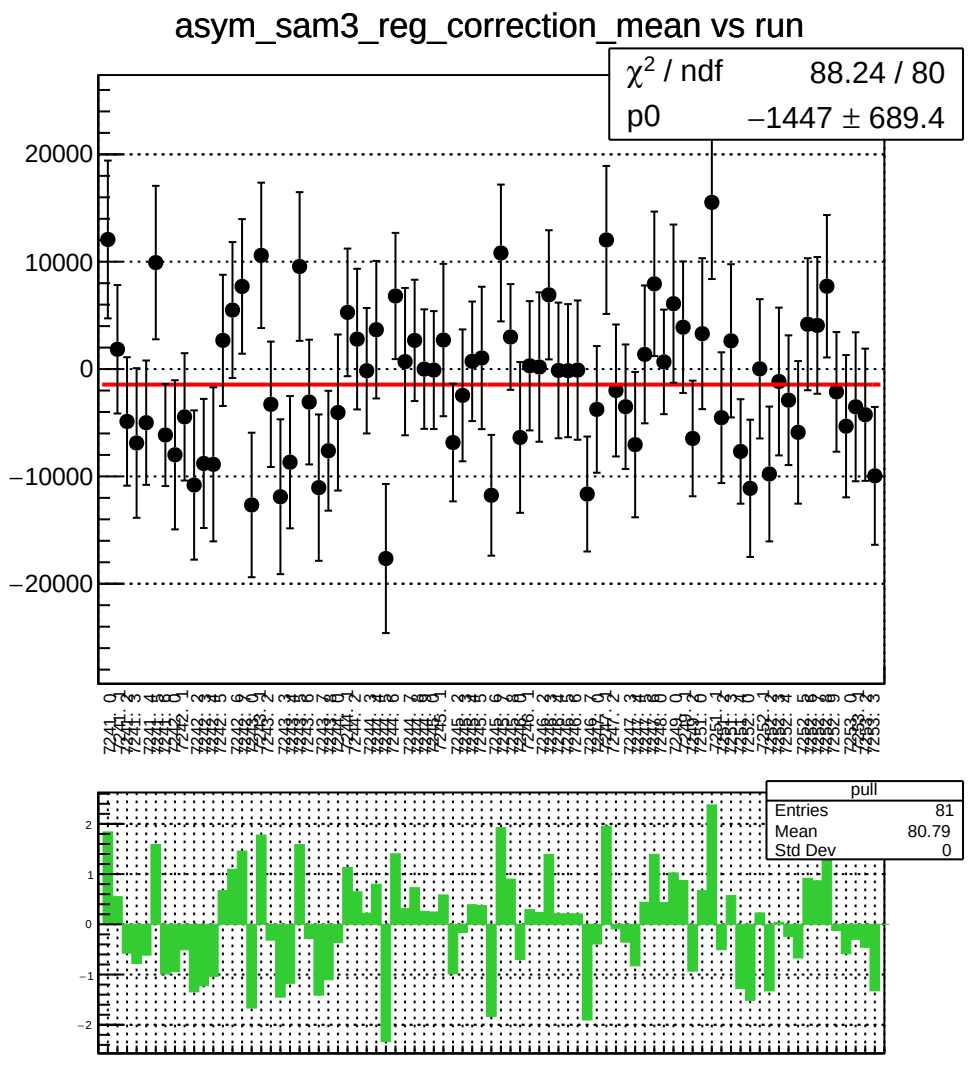

pull1D
Entries 81
Mean 0.06724
Std Dev 1.111

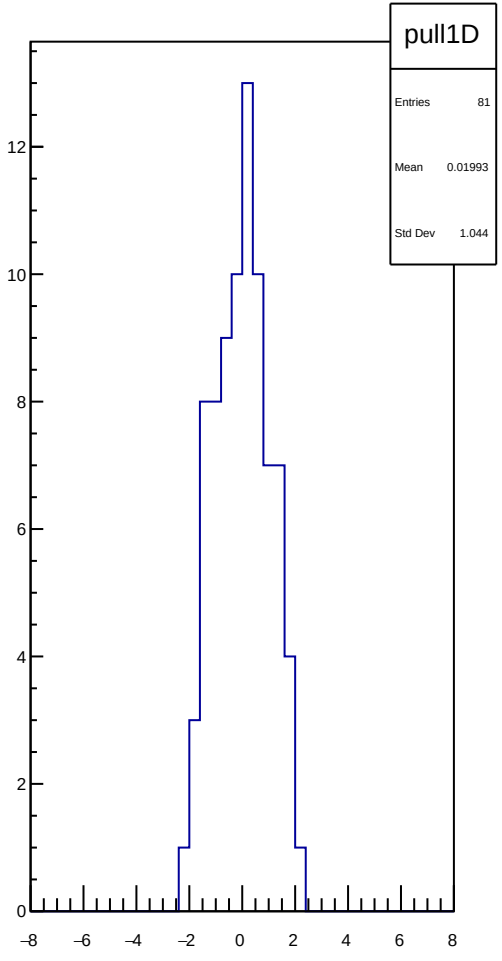

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.964e+05 / 80
p0 3.22e−11 ± 2.999e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

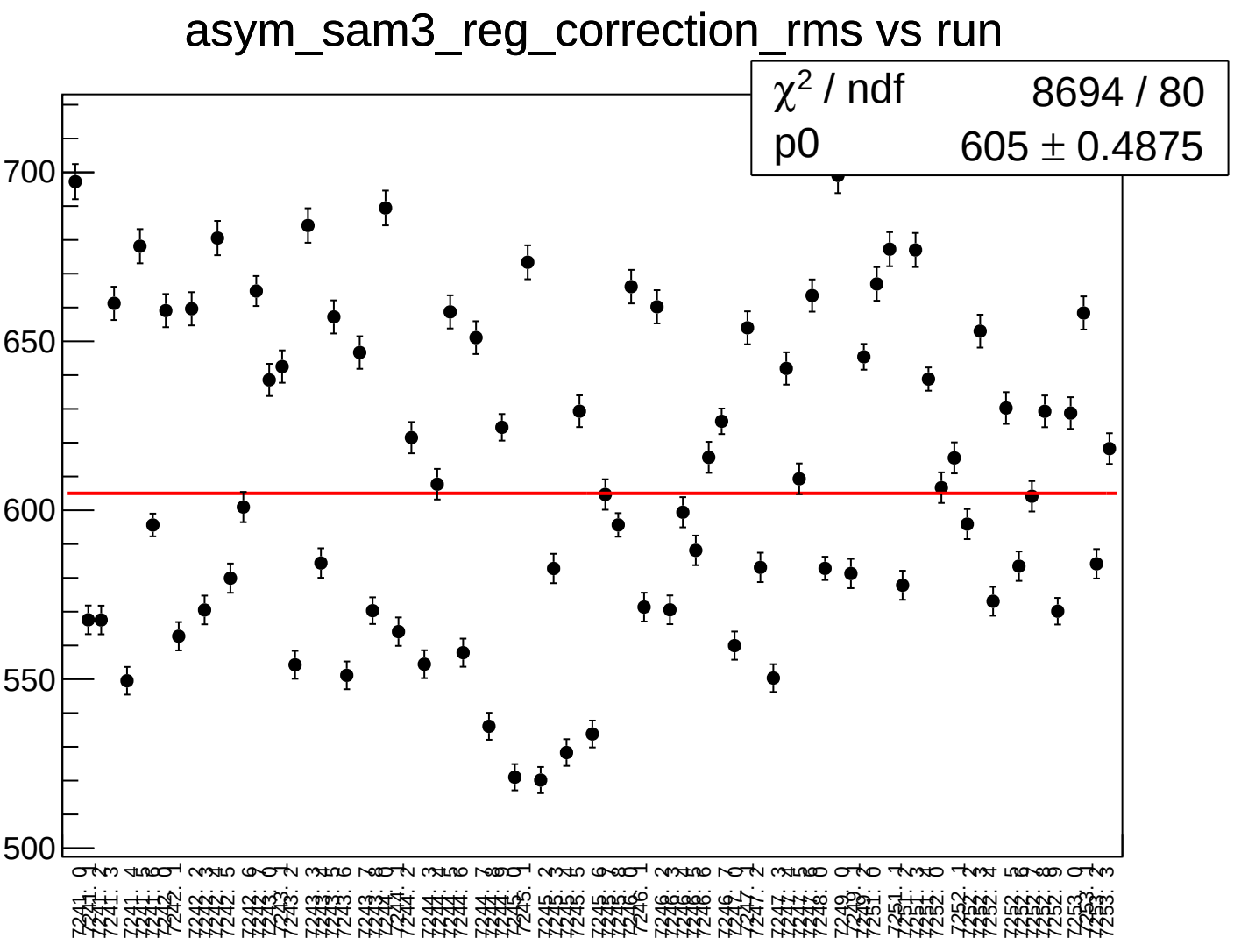

reg_asym_sam3_mean vs run
χ² / ndf 74.3 / 80
p0 −31.76 ± 74.8
pull
Entries 81
Mean 446.5
Std Dev 0

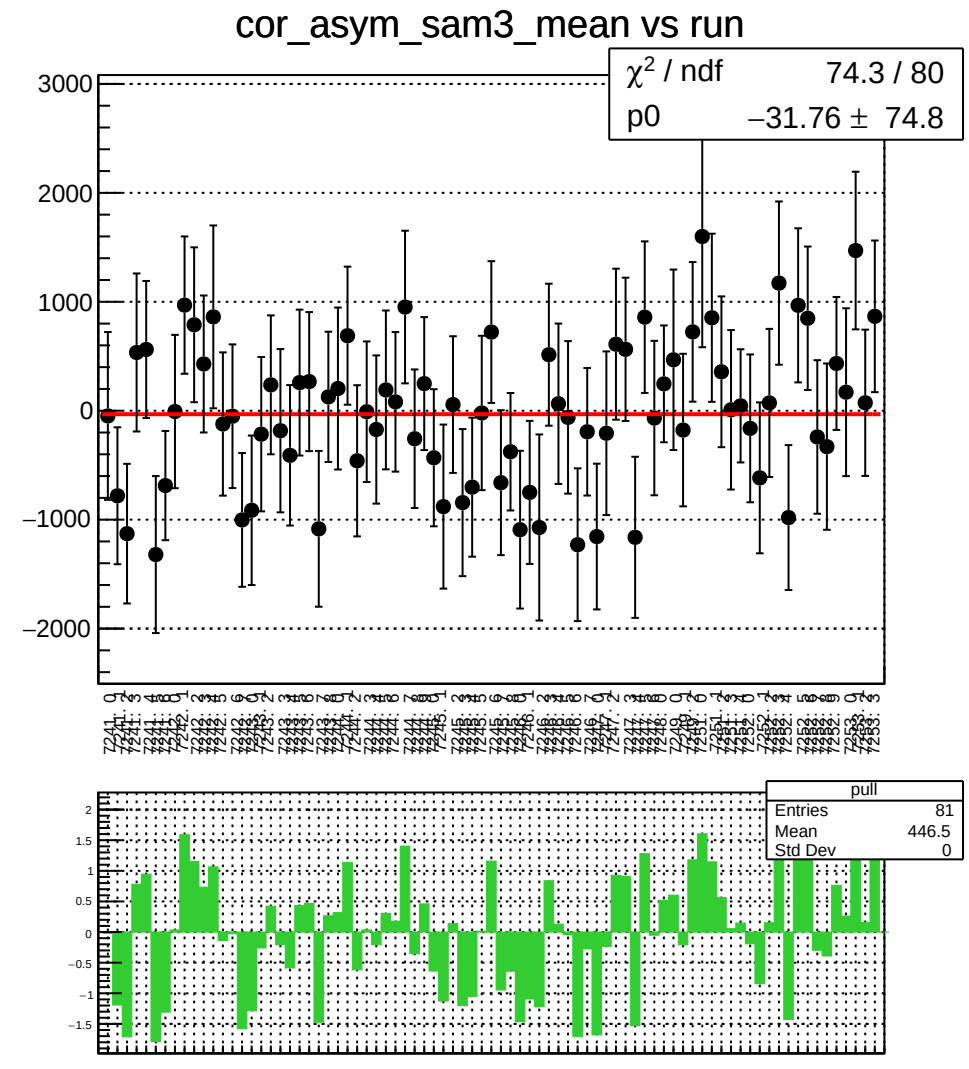

pull1D
Entries 81
Mean 0.01239
Std Dev 0.9577

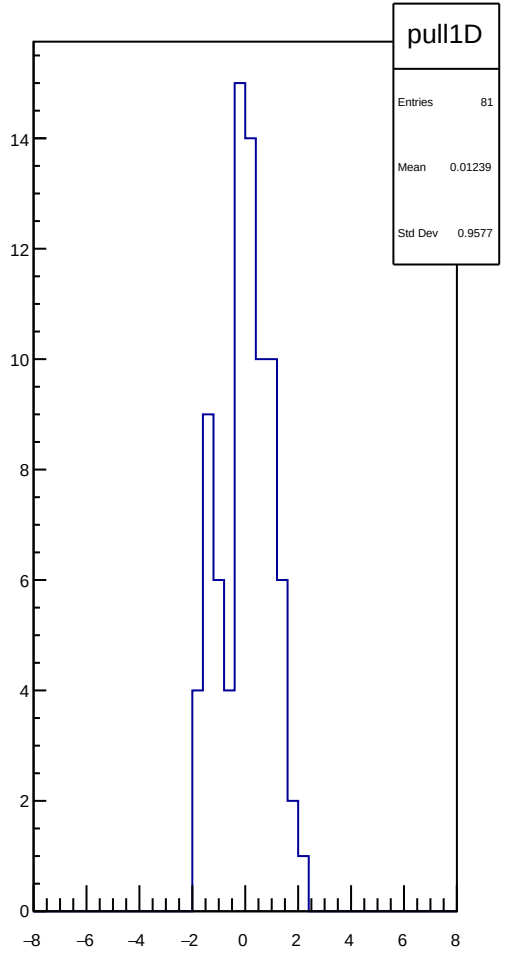

reg_asym_sam3_rms vs run
χ^2 / ndf 9027 / 80
p0 65.64 ± 0.05289
100
95
90
85
80
75
70
65
60

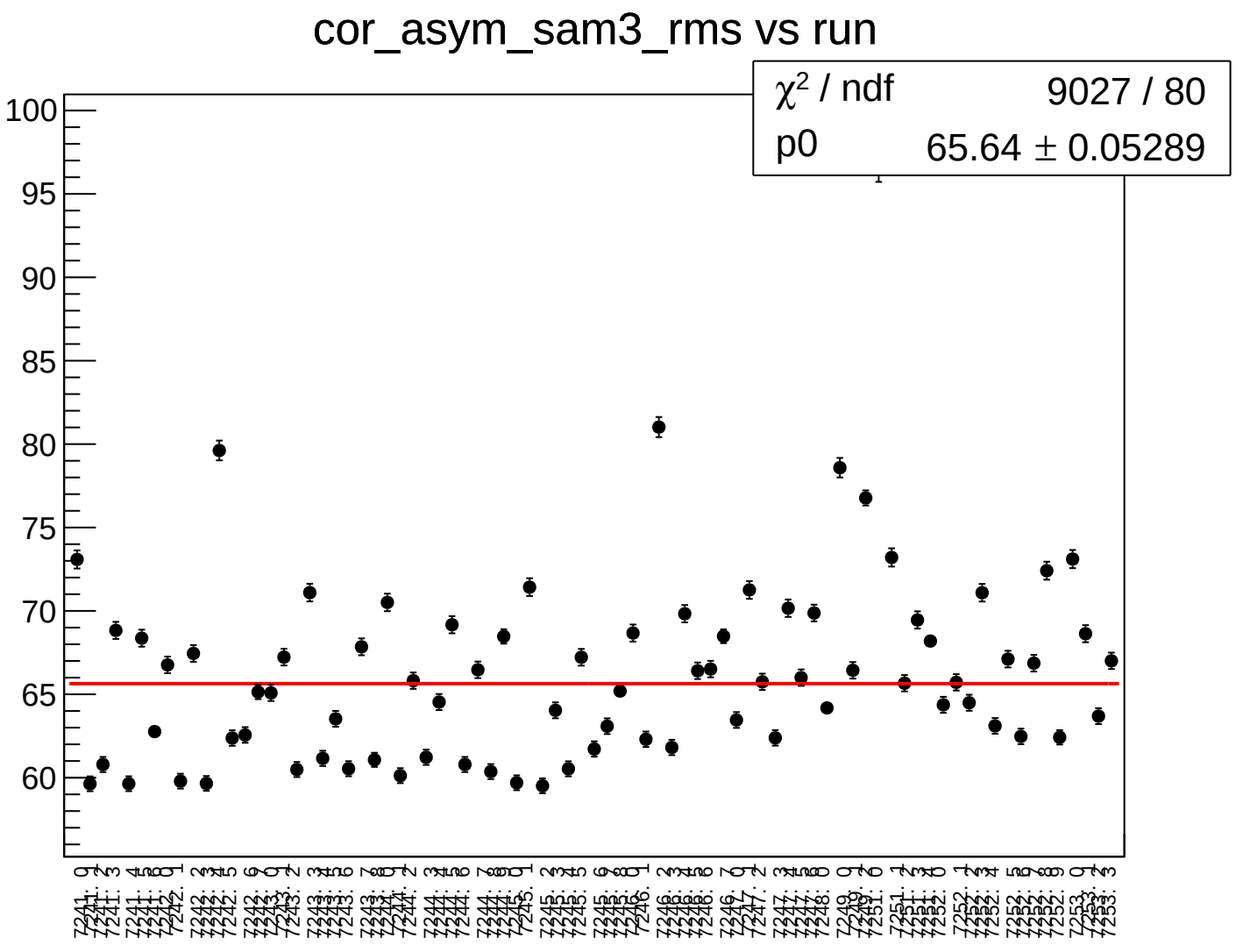

asym_sam3_reg_correction_mean vs run
χ² / ndf 88.24 / 80
p0 −1447 ± 689.4
20000
10000
0
−10000
−20000
pull
Entries 81
Mean 80.79
Std Dev 0
2
1
0
−1
−2

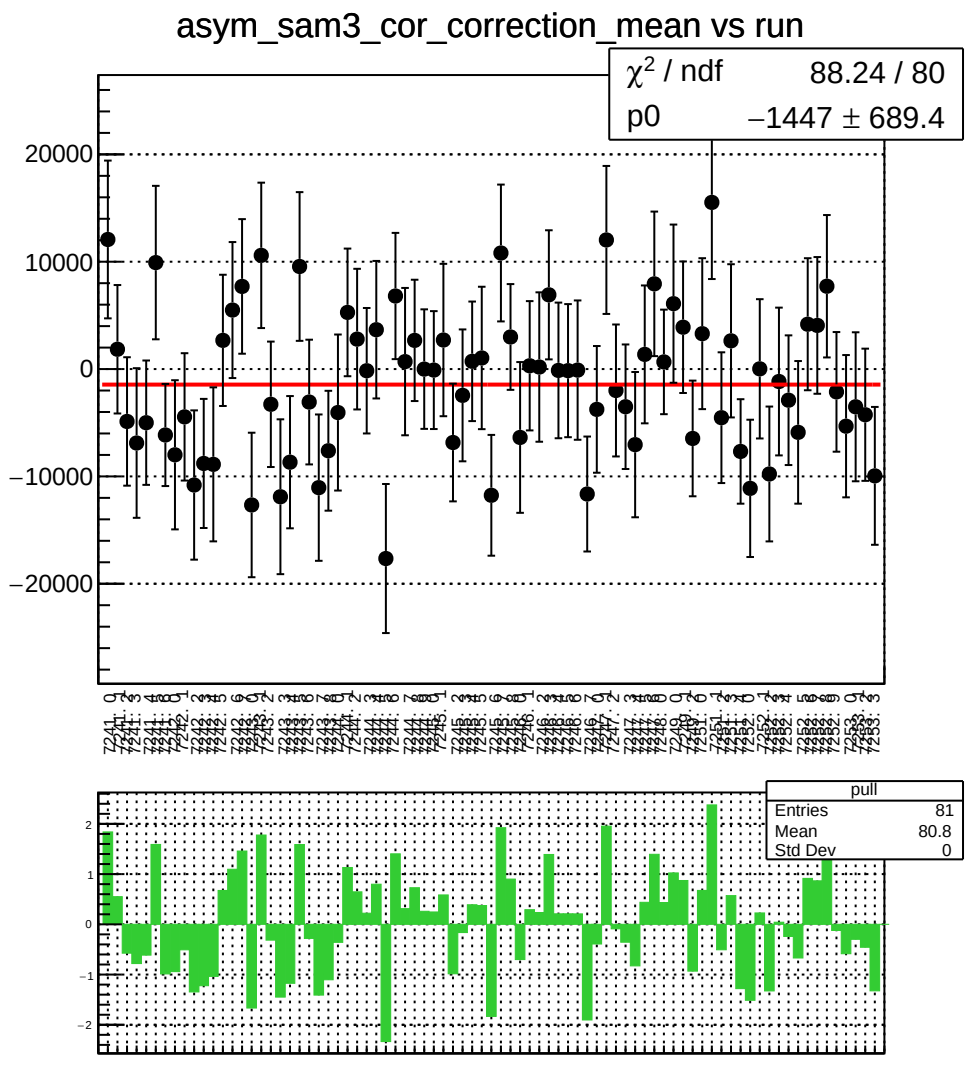

pull1D
Entries 81
Mean 0.01993
Std Dev 1.044
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

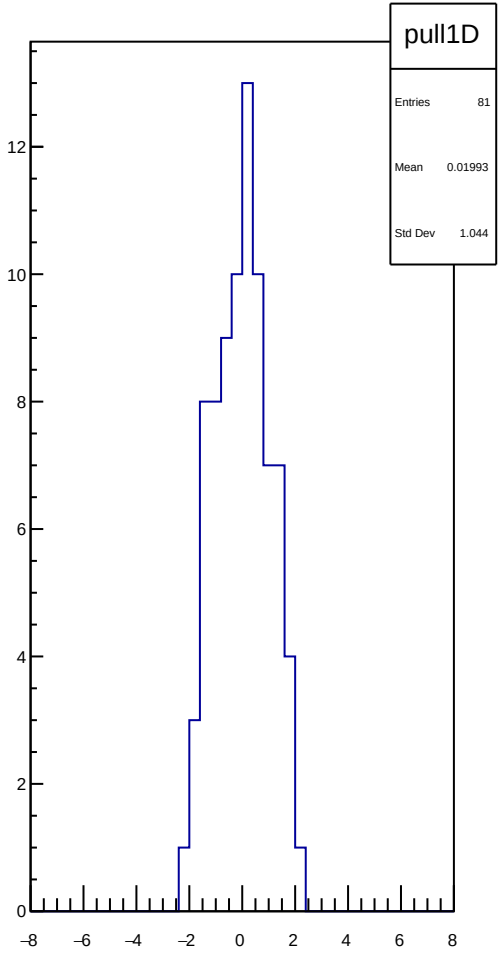

asym_sam3_reg_correction_rms vs run
χ² / ndf 8694 / 80
p0 605 ± 0.4875
700
650
600
550
500

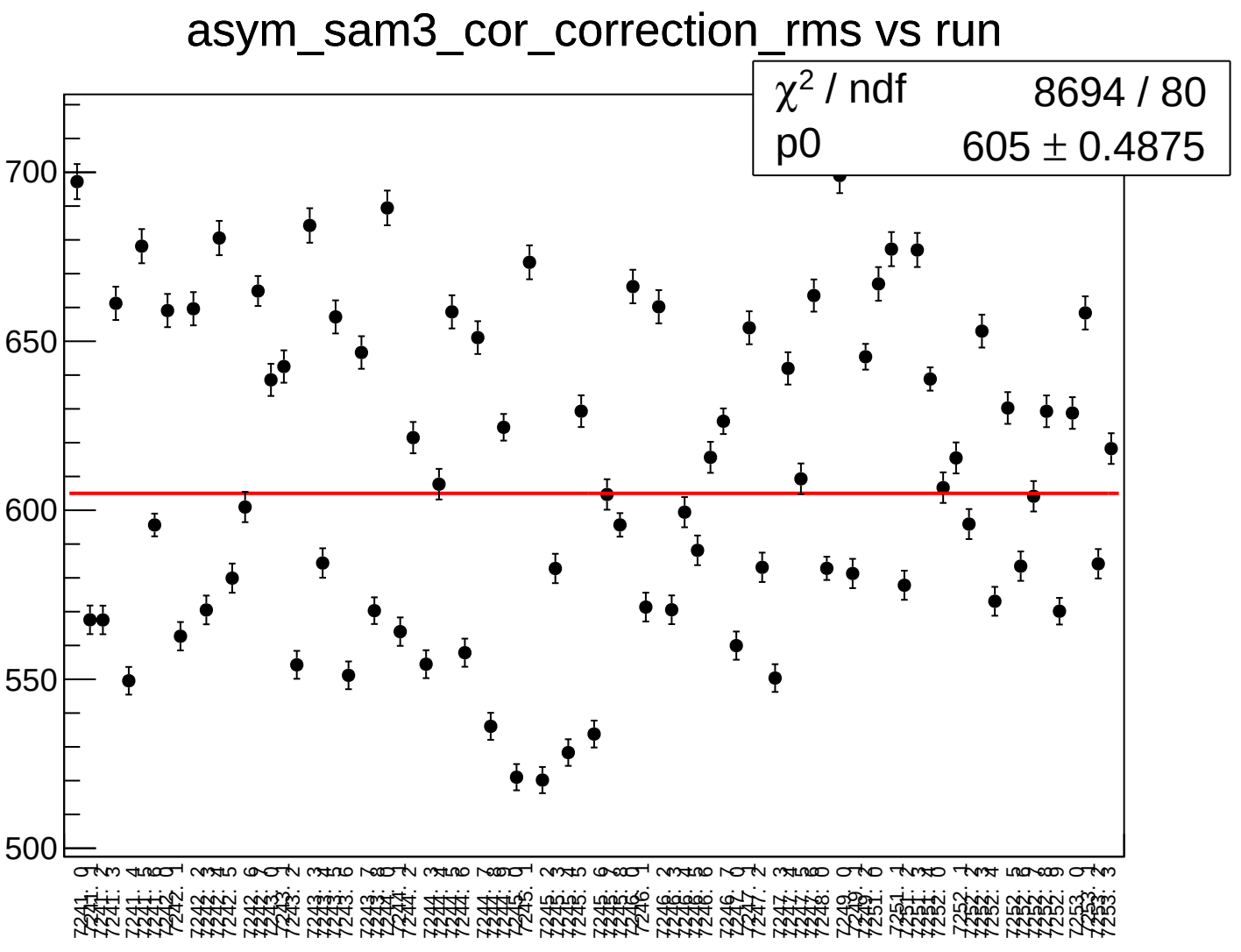

cor_asym_sam3_mean vs run
χ² / ndf 74.3 / 80
p0 −31.76 ± 74.8
3000
2000
1000
0
−1000
−2000
pull
Entries 81
Mean 446.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

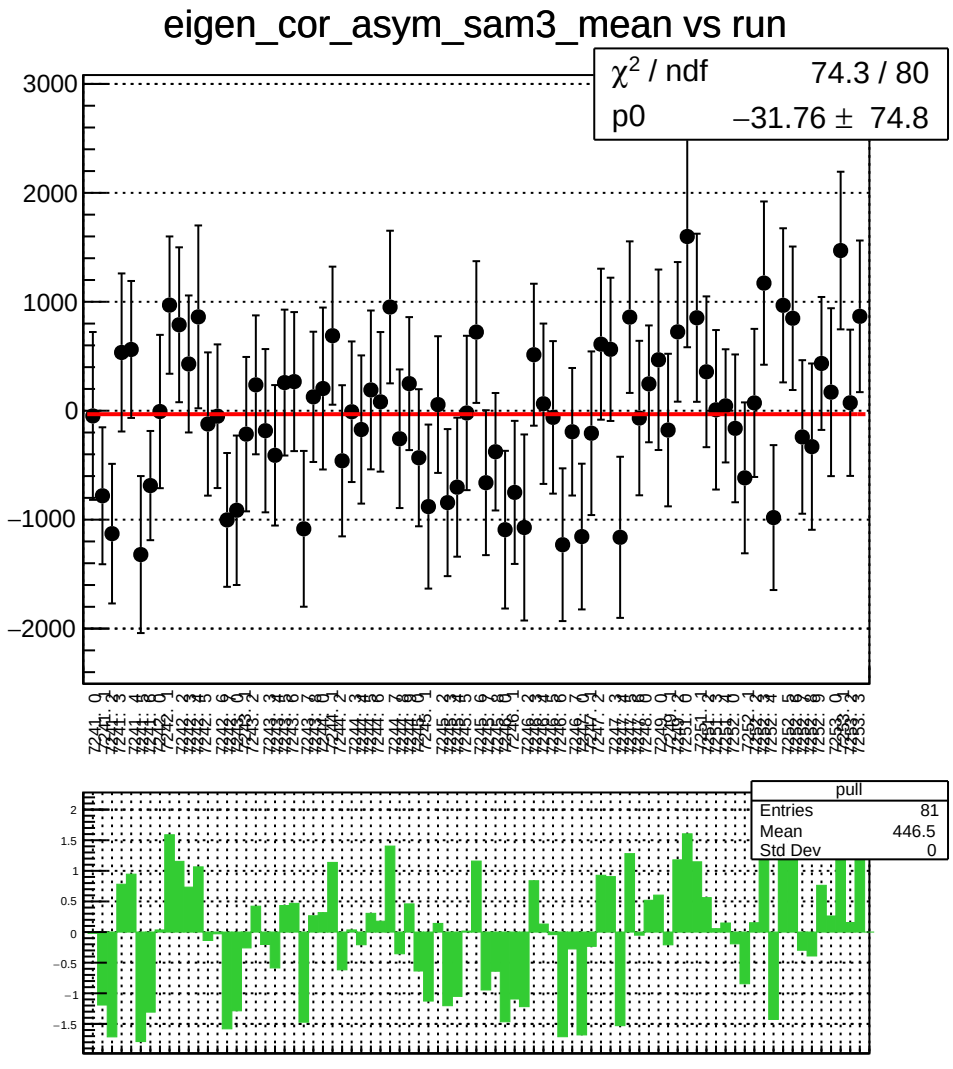

pull1D
Entries 81
Mean 0.01239
Std Dev 0.9577
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

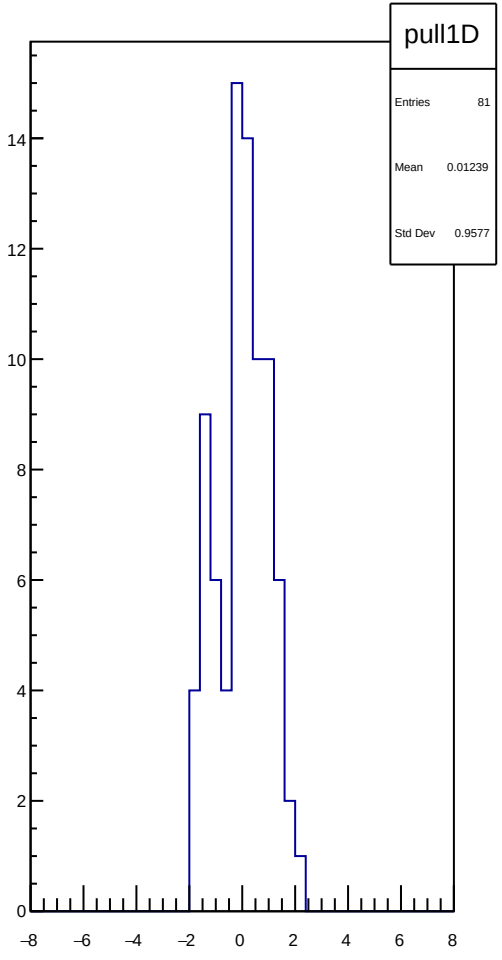

cor_asym_sam3_rms vs run
χ^2 / ndf 9027 / 80
p0 65.64 ± 0.05289
100
95
90
85
80
75
70
65
60

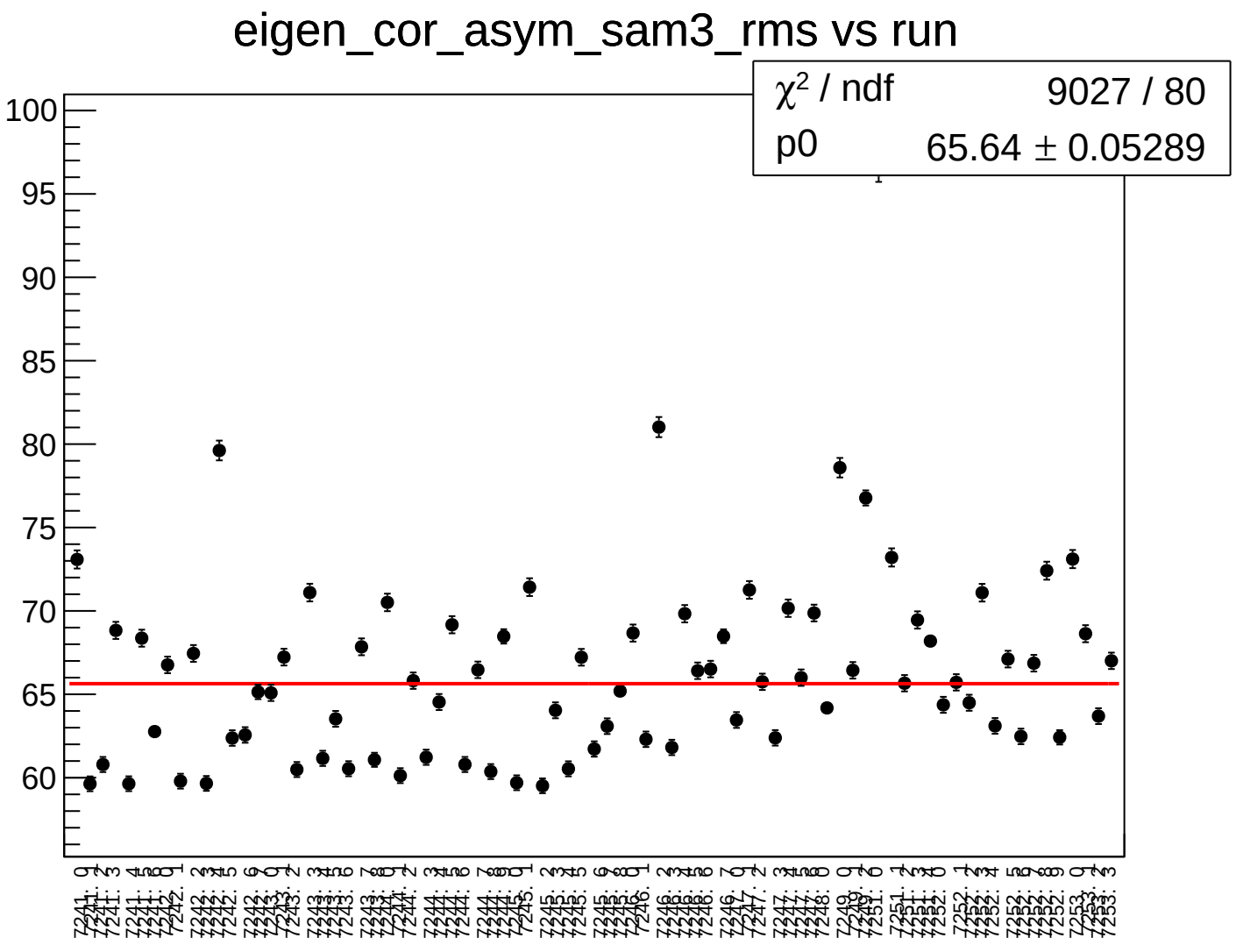

asym_sam3_cor_correction_mean vs run
χ² / ndf 88.24 / 80
p0 −1447 ± 689.4
20000
10000
0
−10000
−20000
pull
Entries 81
Mean 80.8
Std Dev 0
2
1
0
−1
−2

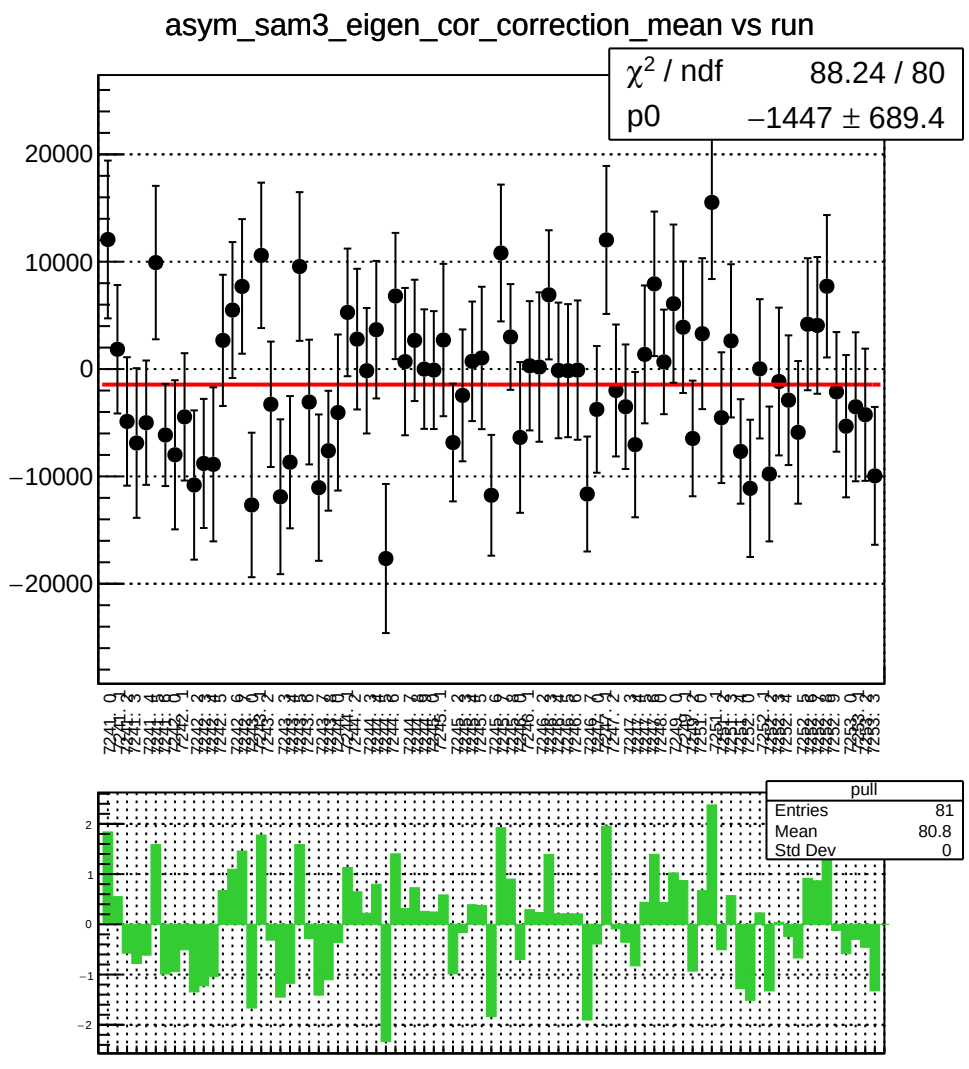

pull1D
Entries 81
Mean 0.01993
Std Dev 1.044
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

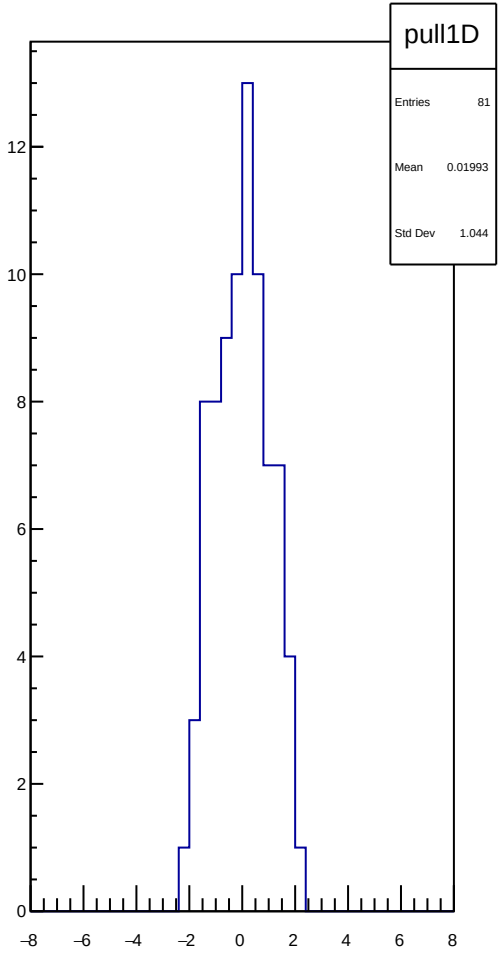

asym_sam3_cor_correction_rms vs run
χ² / ndf 8694 / 80
p0 605 ± 0.4875
700
650
600
550
500

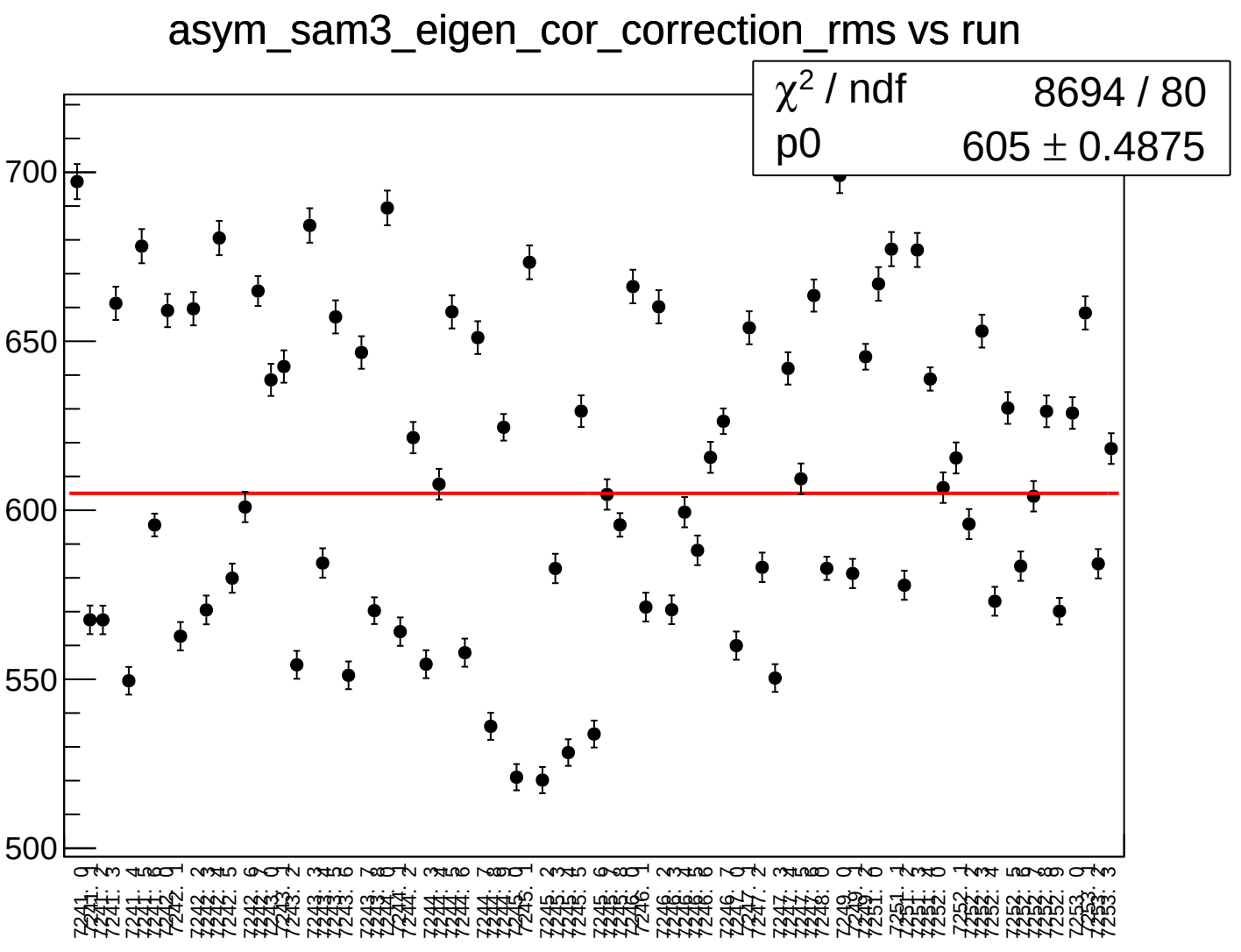

eigen_cor_asym_sam3_mean vs run
χ² / ndf 74.3 / 80
p0 −31.76 ± 74.8
pull
Entries 81
Mean 446.5
Std Dev 0

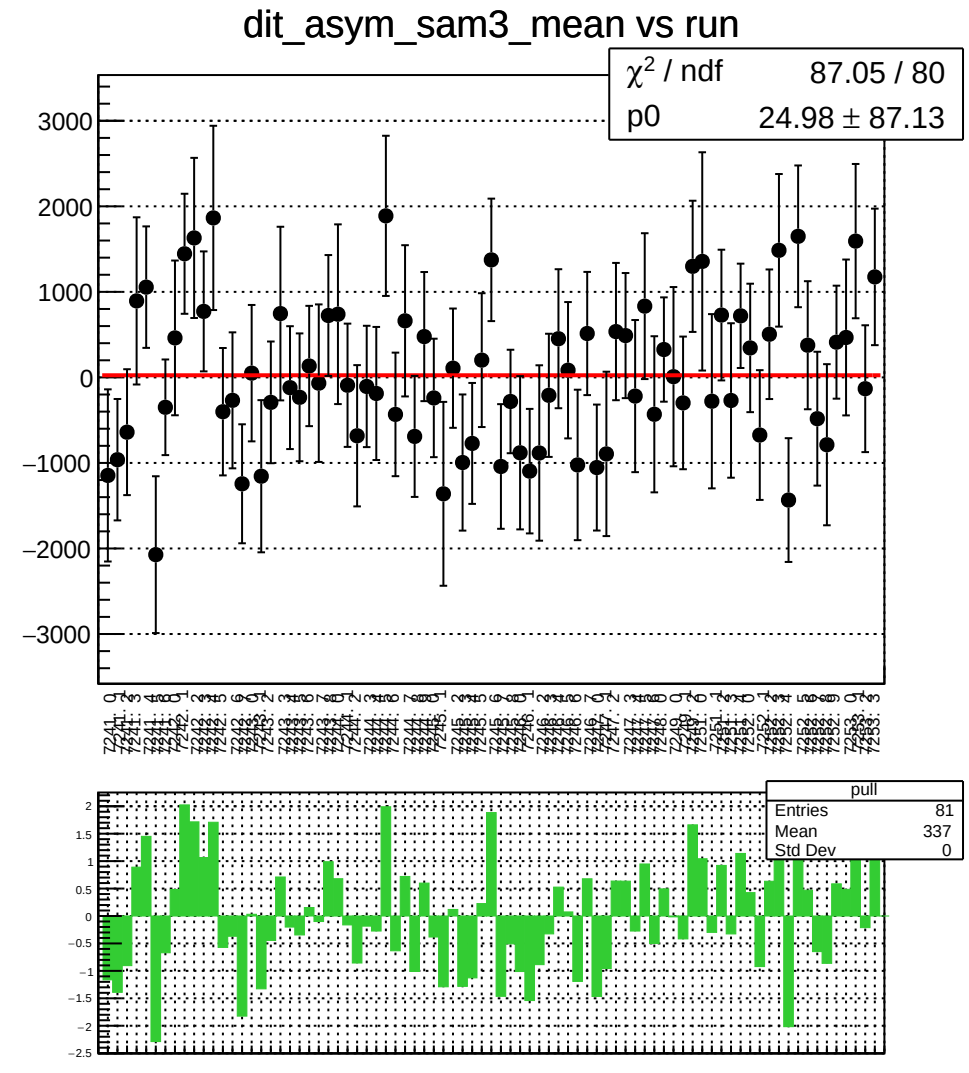

pull1D
Entries 81
Mean 0.01239
Std Dev 0.9577

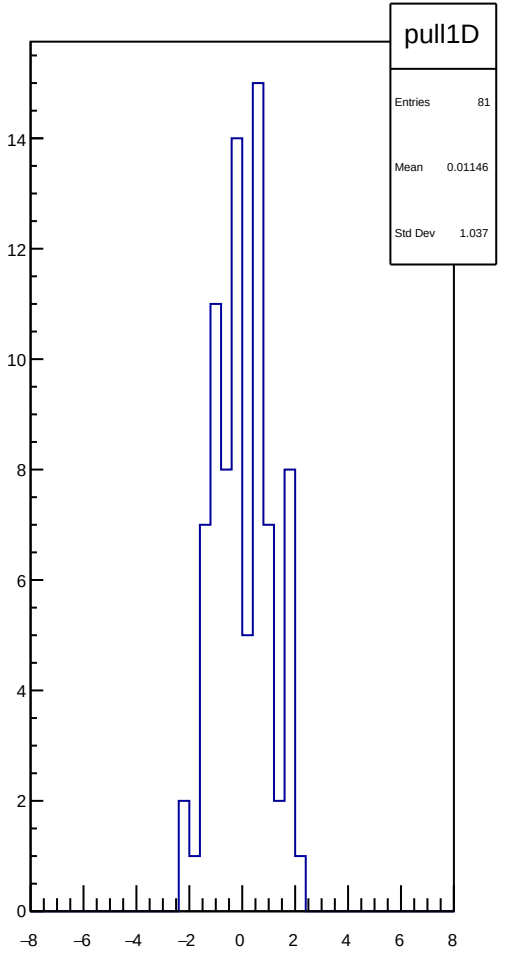

eigen_cor_asym_sam3_rms vs run
χ^2 / ndf 9027 / 80
p0 65.64 ± 0.05289
100
95
90
85
80
75
70
65
60

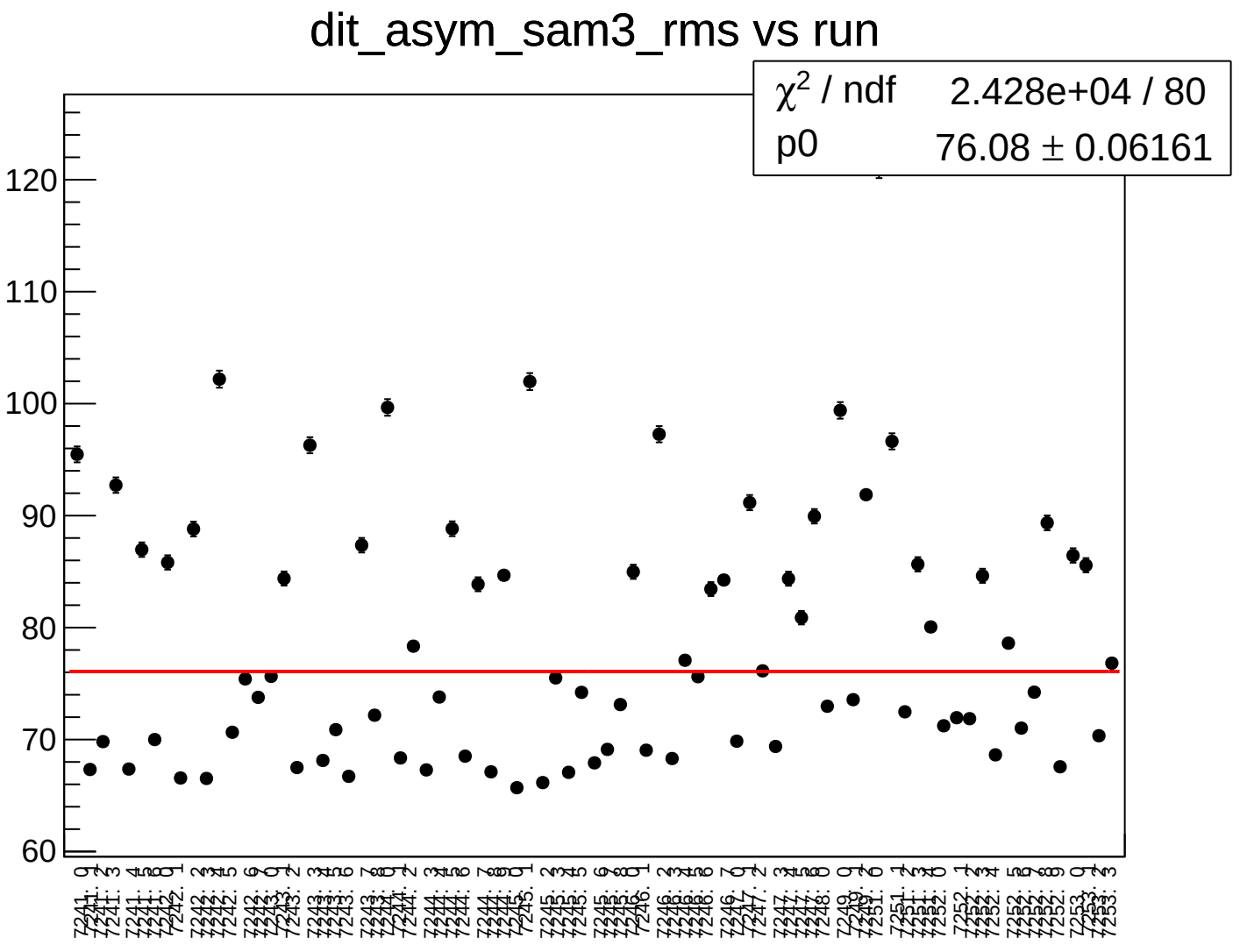

asym_sam3_eigen_cor_correction_mean vs run
χ² / ndf 88.24 / 80
p0 −1447 ± 689.4
20000
10000
0
−10000
−20000
pull
Entries 81
Mean 80.8
Std Dev 0
2
1
0
−1
−2

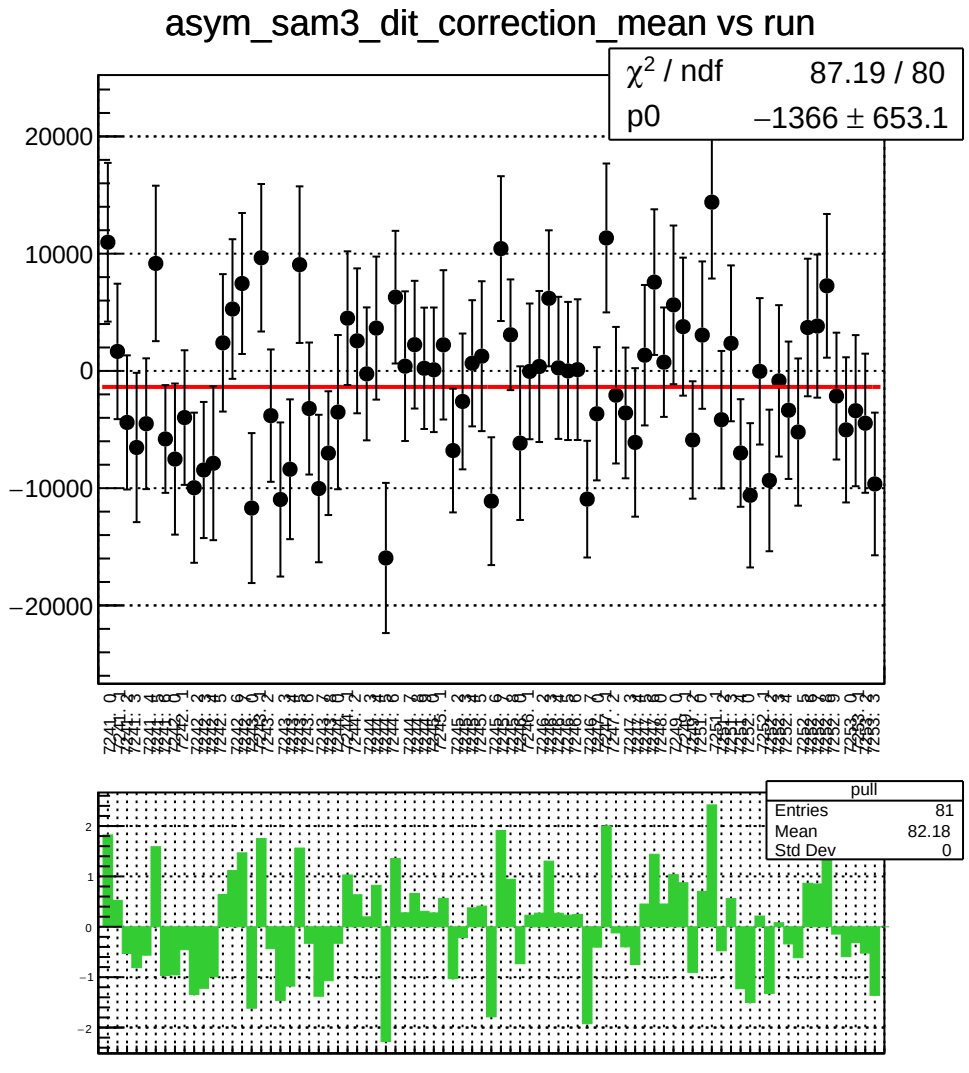

pull1D
Entries 81
Mean 0.01993
Std Dev 1.044
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

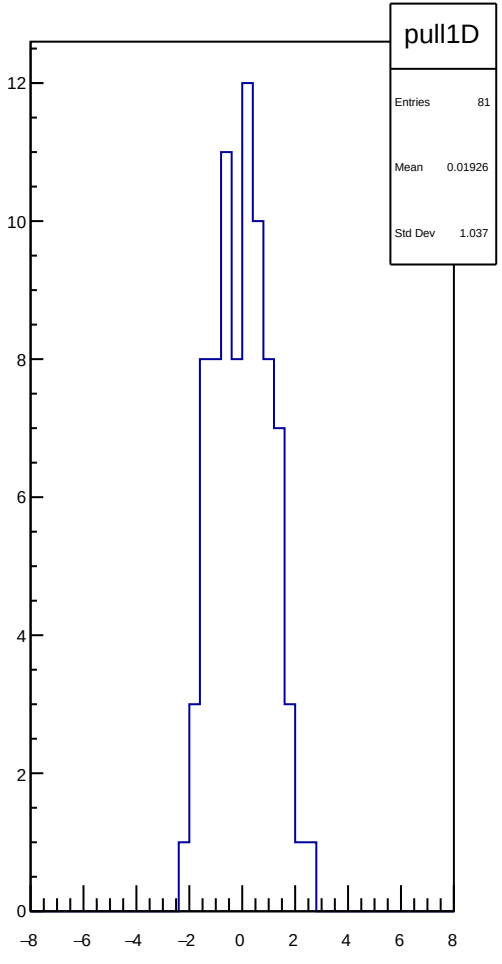

asym_sam3_eigen_cor_correction_rms vs run
χ² / ndf 8694 / 80
p0 605 ± 0.4875
700
650
600
550
500

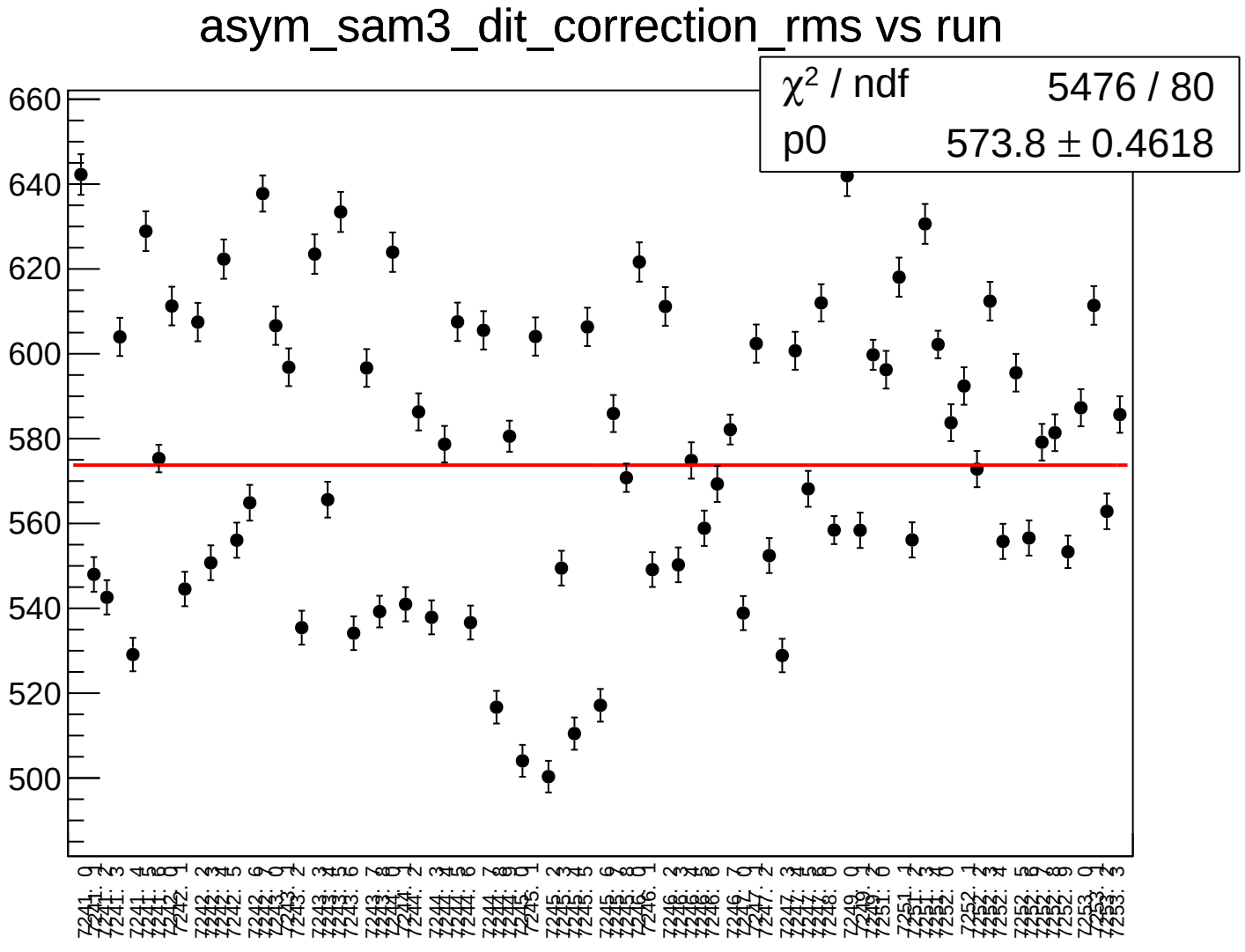

dit_asym_sam3_mean vs run
χ^2 / ndf 87.05 / 80
p0 24.98 ± 87.13
pull
Entries 81
Mean 337
Std Dev 0

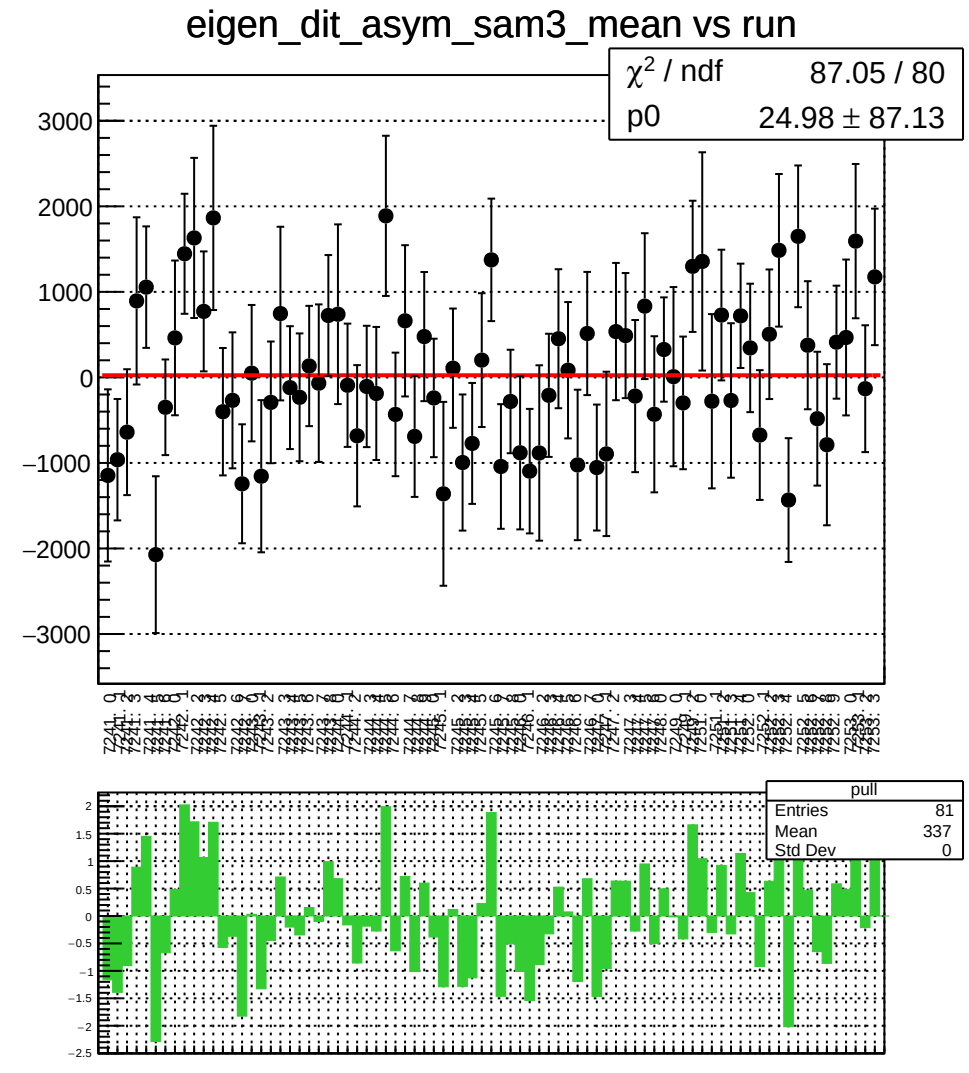

pull1D
Entries 81
Mean 0.01146
Std Dev 1.037

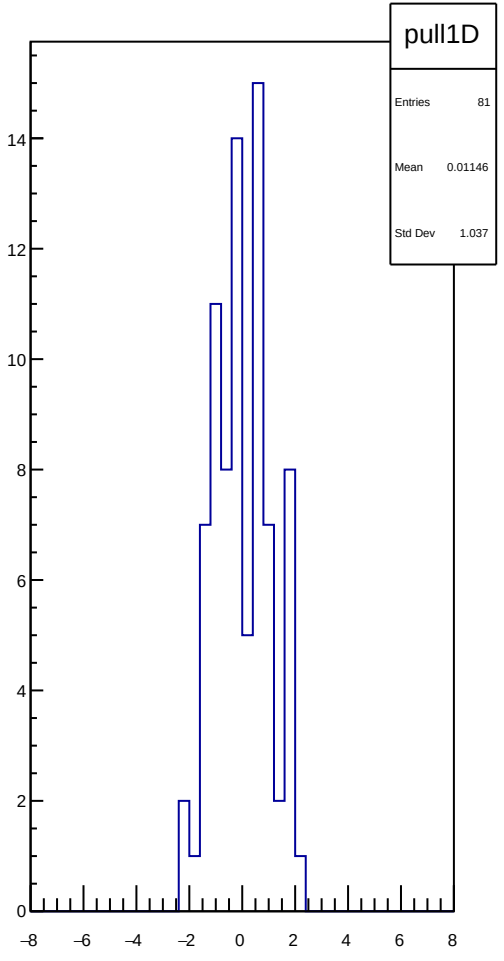

dit_asym_sam3_rms vs run
χ^2 / ndf 2.428e+04 / 80
p0 76.08 ± 0.06161
120
110
100
90
80
70
60

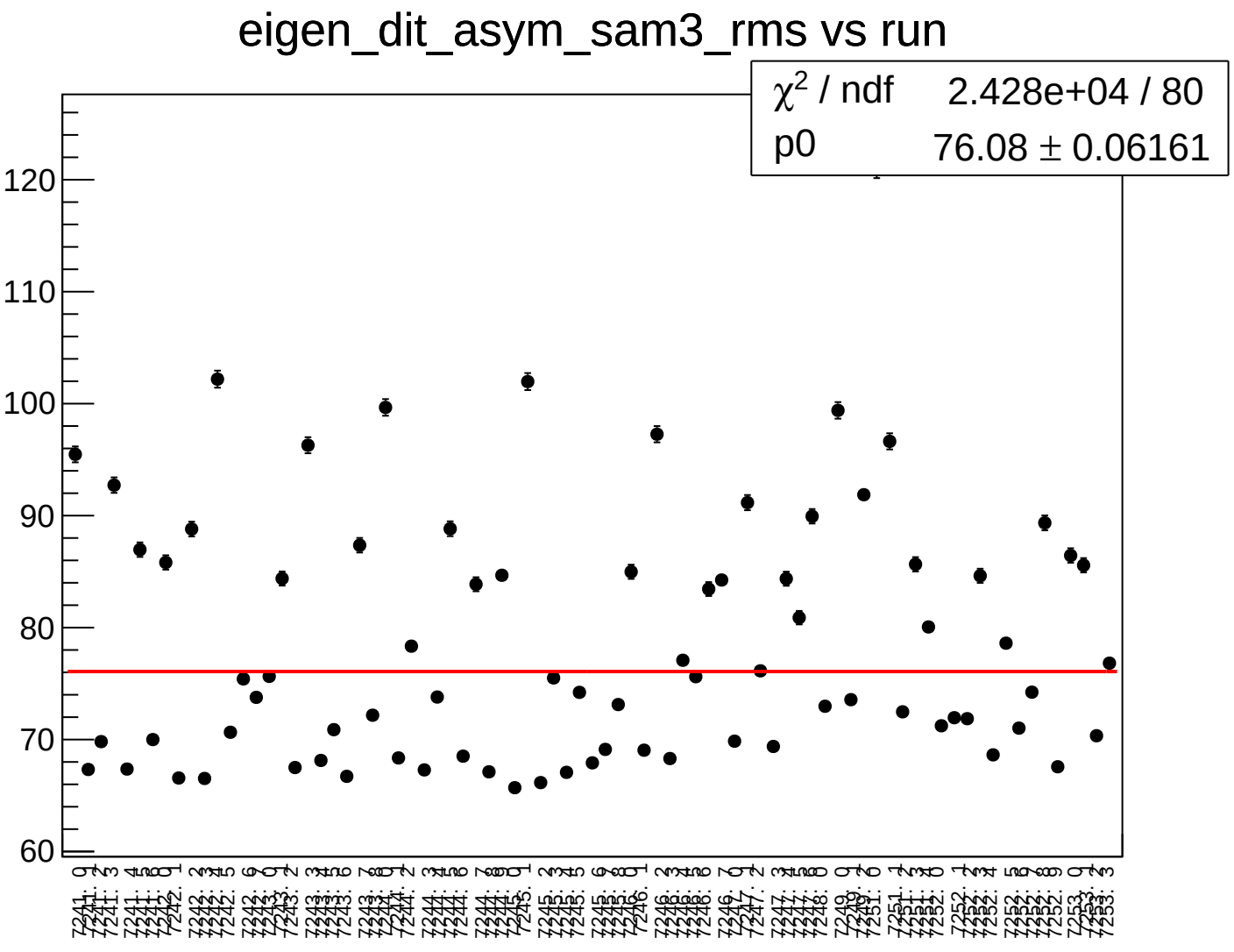

asym_sam3_dit_correction_mean vs run
χ² / ndf 87.19 / 80
p0 −1366 ± 653.1
20000
10000
0
−10000
−20000
pull
Entries 81
Mean 82.18
Std Dev 0
2
1
0
−1
−2

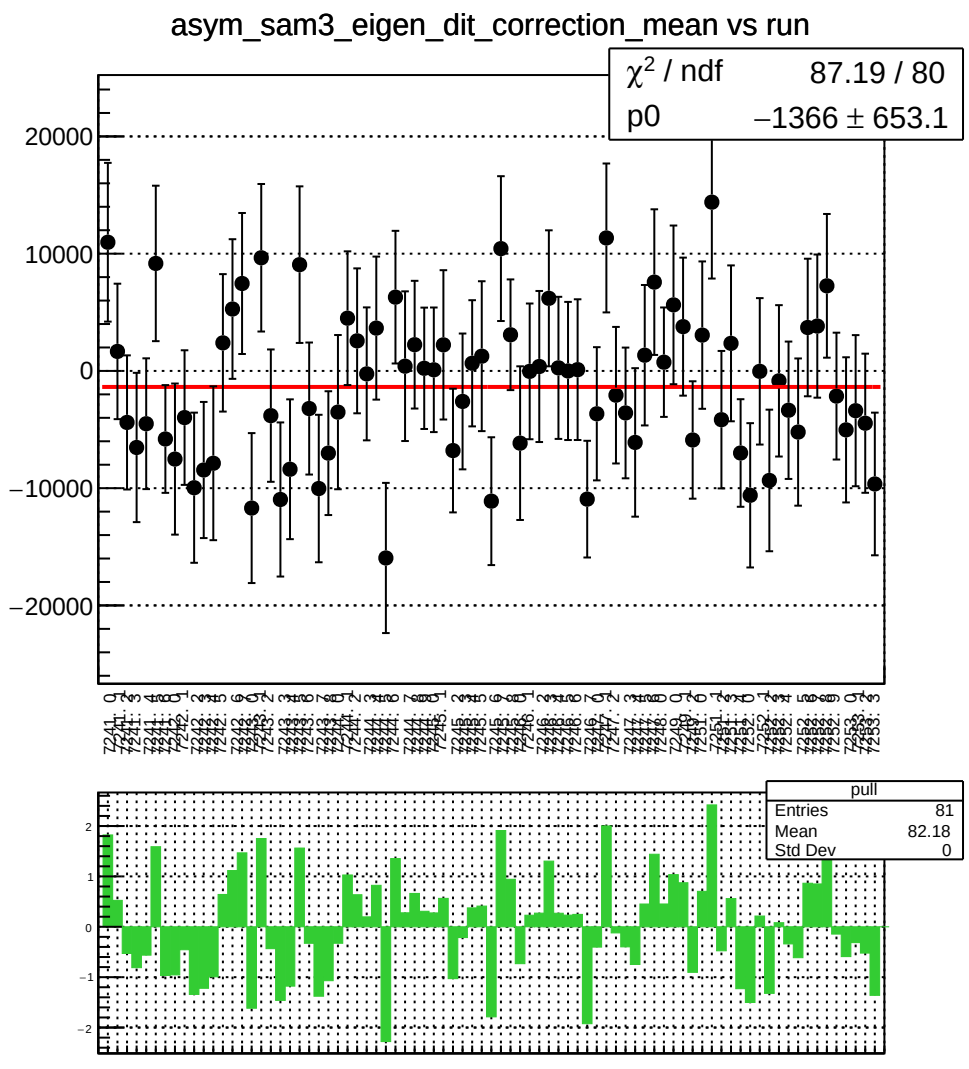

pull1D
Entries 81
Mean 0.01926
Std Dev 1.037
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

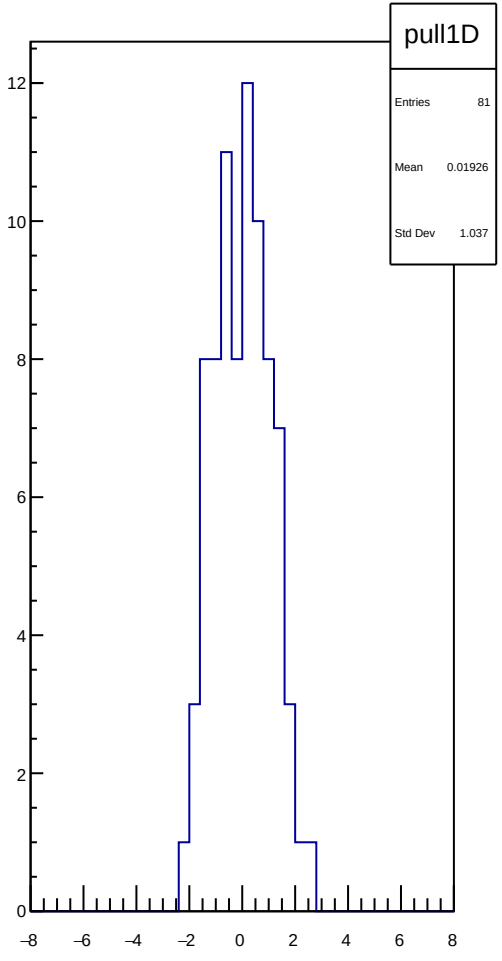

asym_sam3_dit_correction_rms vs run
χ² / ndf 5476 / 80
p0 573.8 ± 0.4618
660
640
620
600
580
560
540
520
500

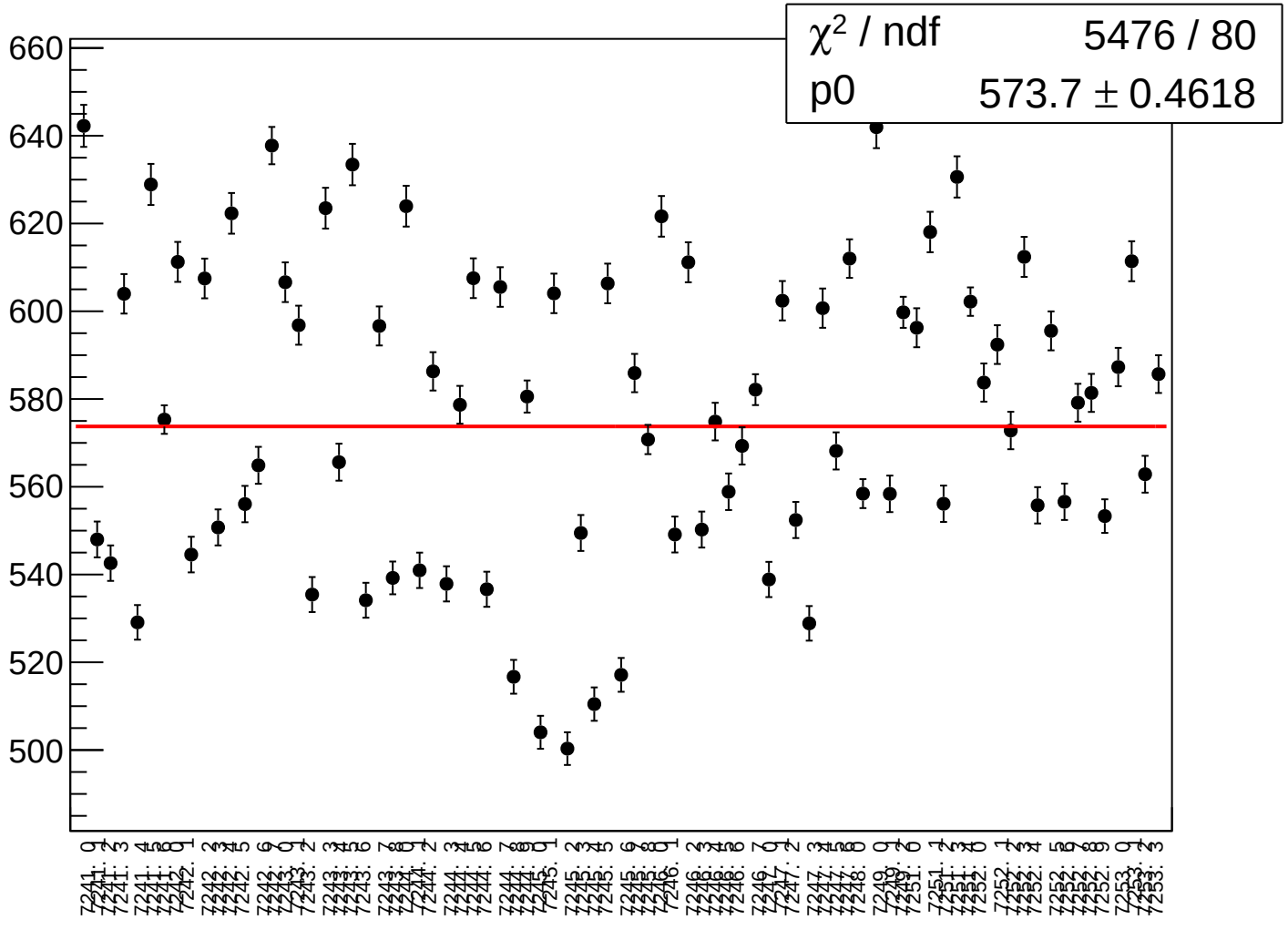

eigen_dit_asym_sam3_mean vs run
χ^2 / ndf 87.05 / 80
p0 24.98 ± 87.13
pull
Entries 81
Mean 337
Std Dev 0

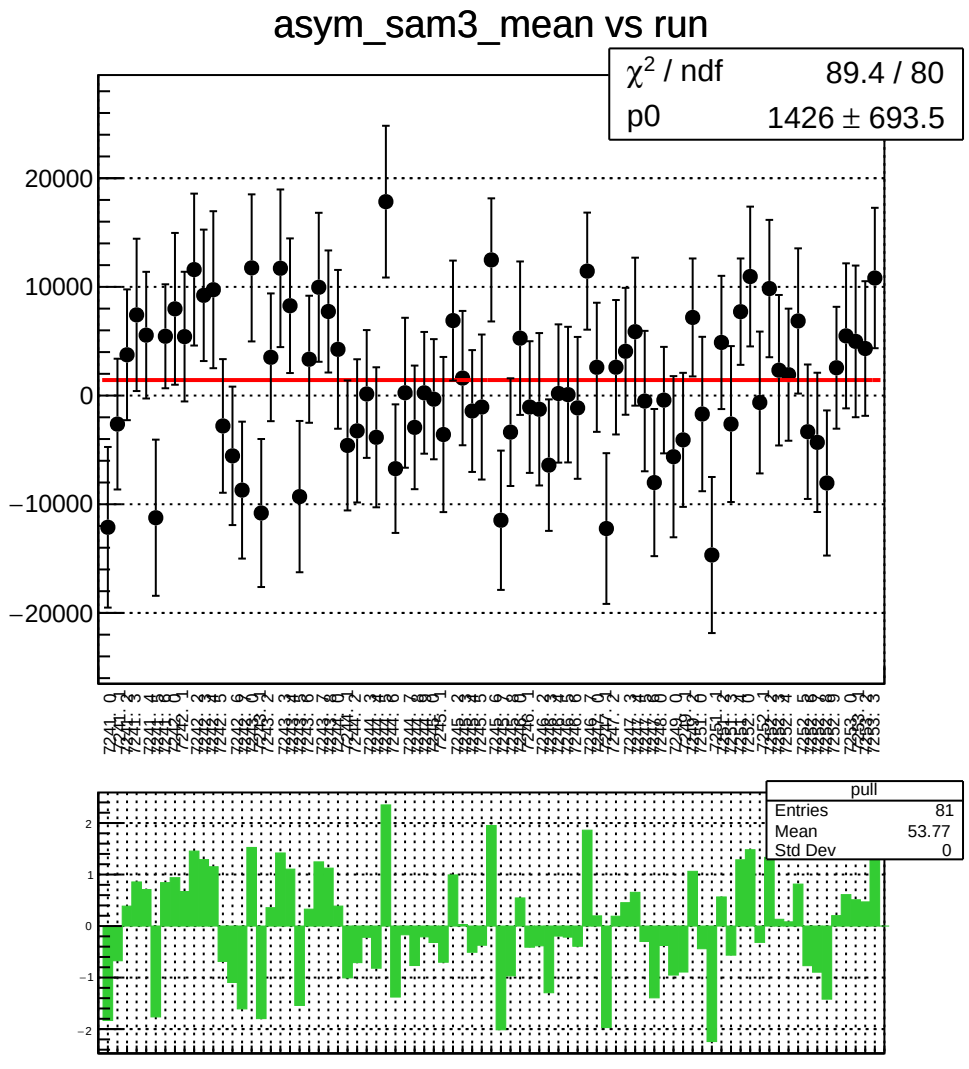

pull1D
Entries 81
Mean 0.01146
Std Dev 1.037

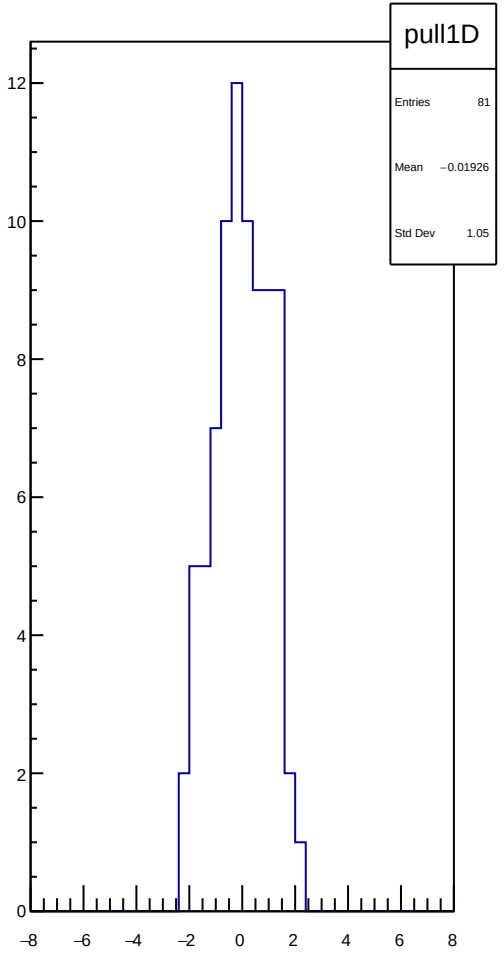

eigen_dit_asym_sam3_rms vs run
χ² / ndf 2.428e+04 / 80
p0 76.08 ± 0.06161
120
110
100
90
80
70
60

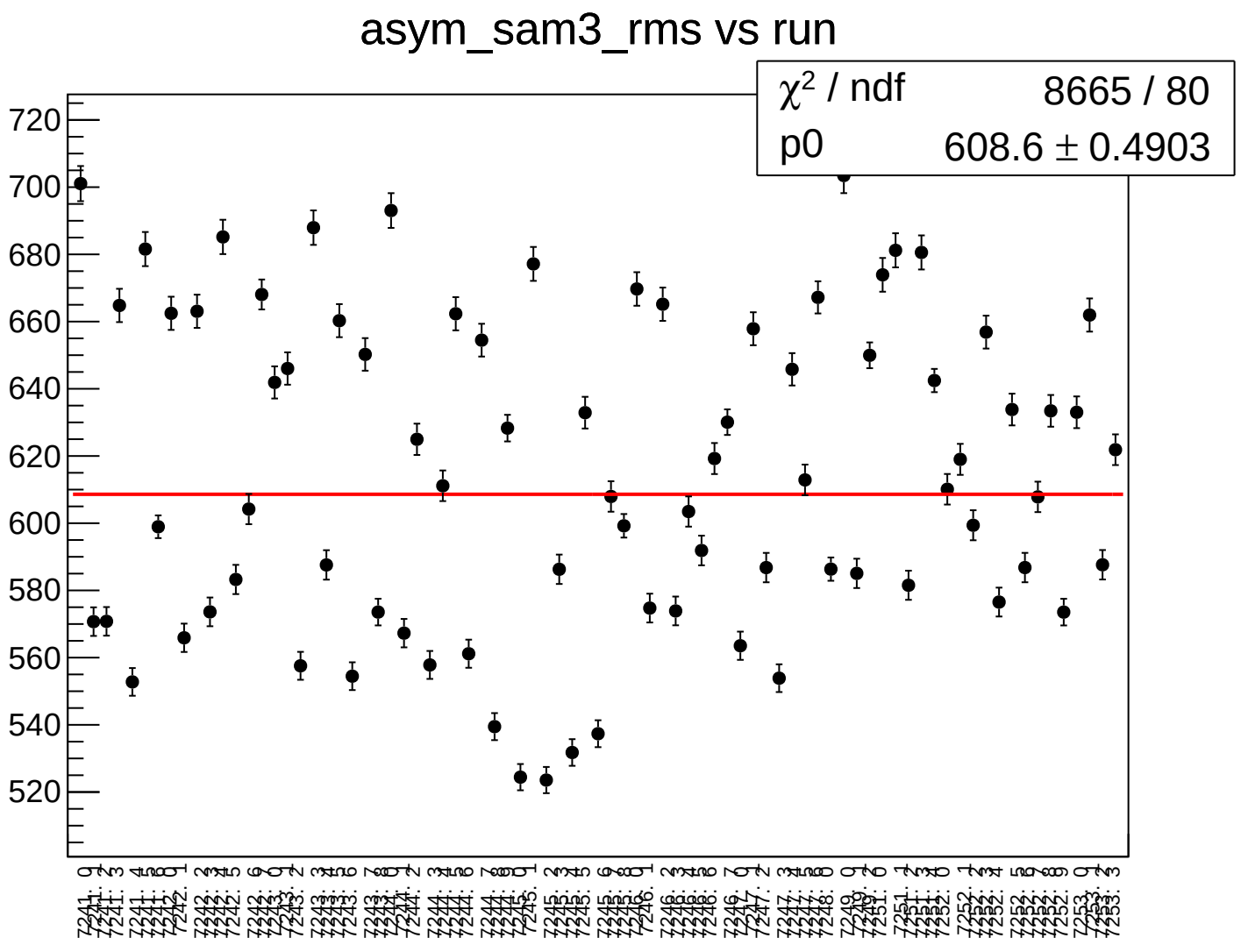

asym_sam3_eigen_dit_correction_mean vs run
χ² / ndf 87.19 / 80
p0 −1366 ± 653.1
20000
10000
0
−10000
−20000
pull
Entries 81
Mean 82.18
Std Dev 0
2
1
0
−1
−2

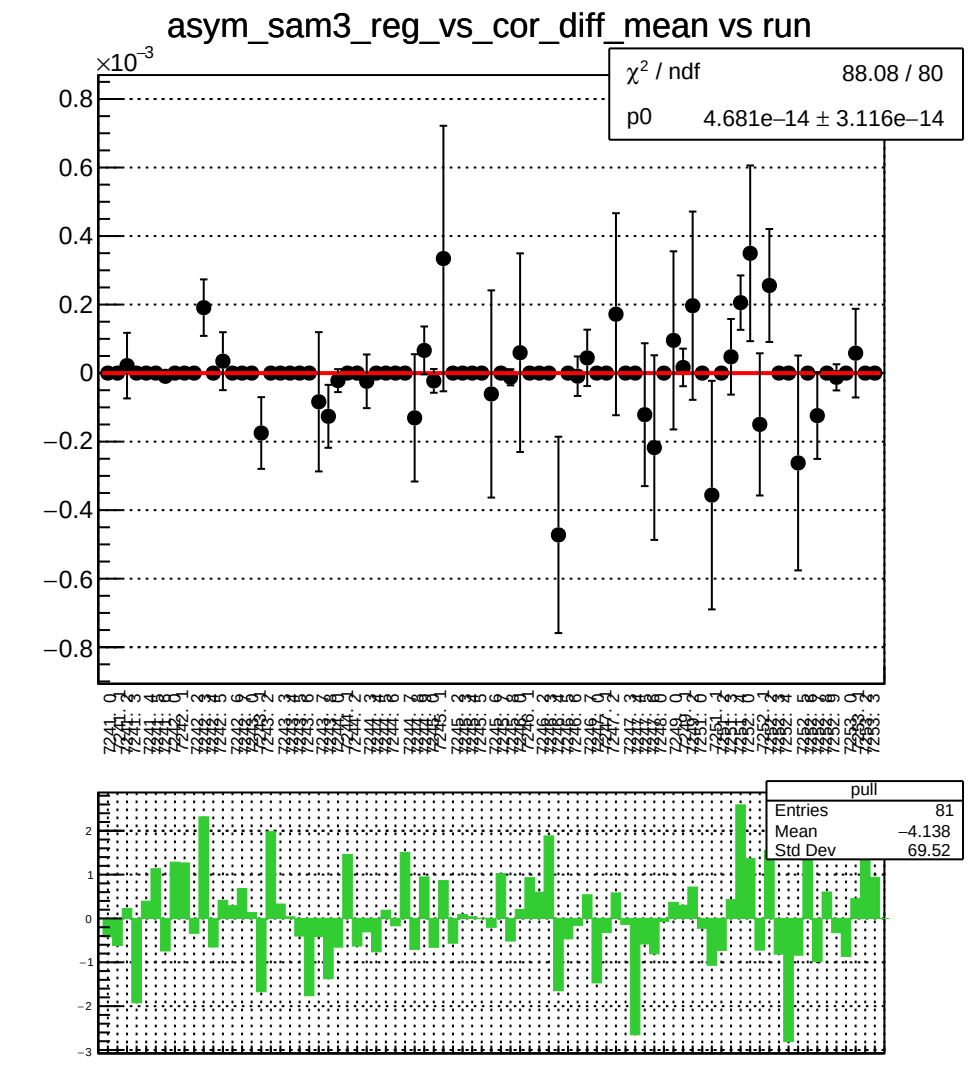

pull1D
Entries 81
Mean 0.01926
Std Dev 1.037
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

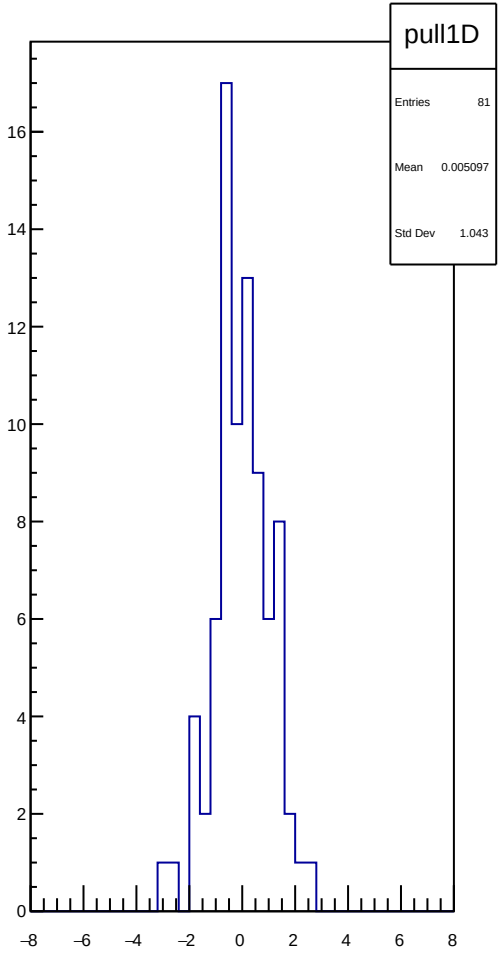

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 5476 / 80
p0 573.7 ± 0.4618
660
640
620
600
580
560
540
520
500

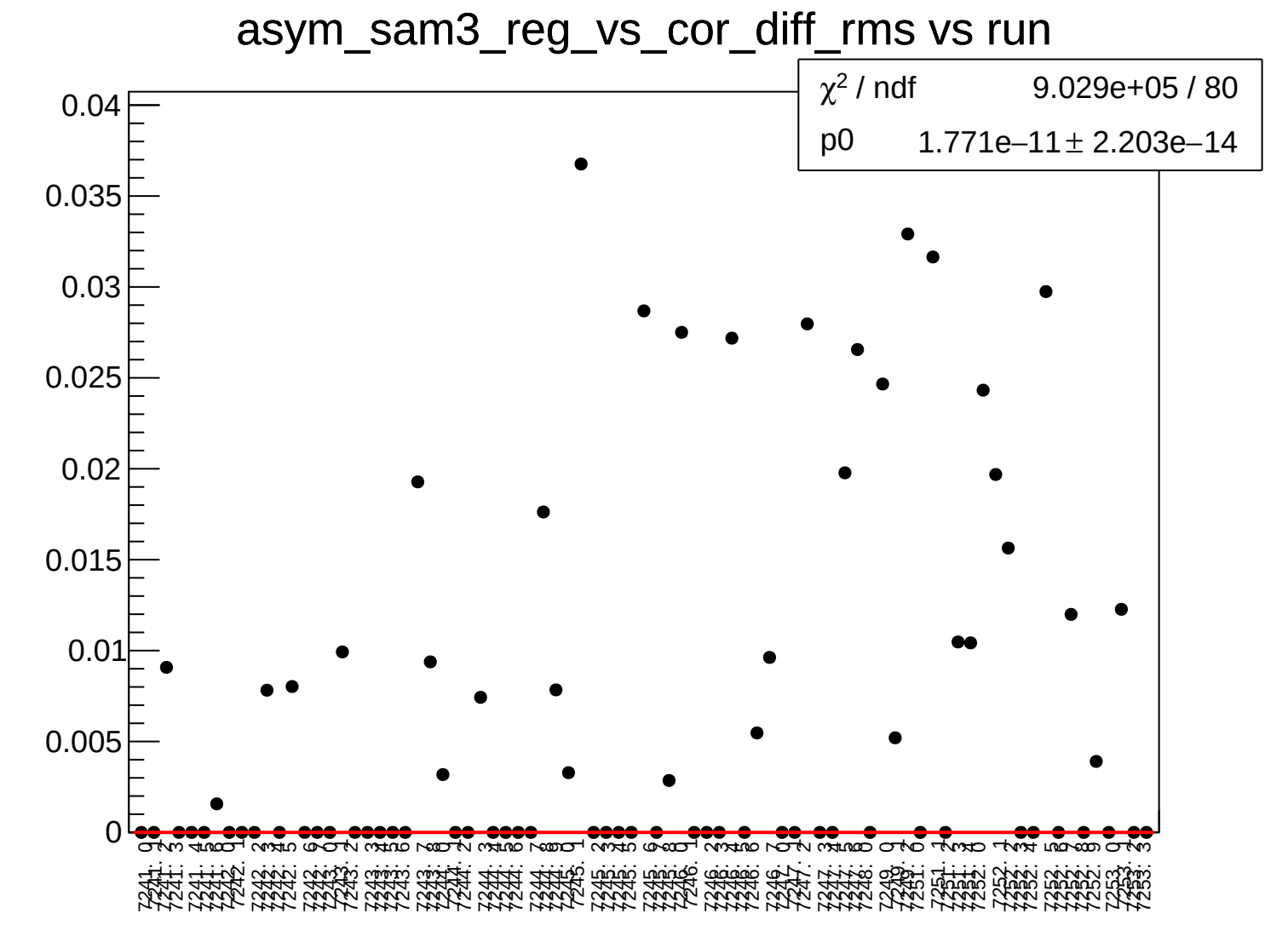

asym_sam3_mean vs run
χ² / ndf 89.4 / 80
p0 1426 ± 693.5
20000
10000
0
−10000
−20000
pull
Entries 81
Mean 53.77
Std Dev 0
2
1
0
−1
−2

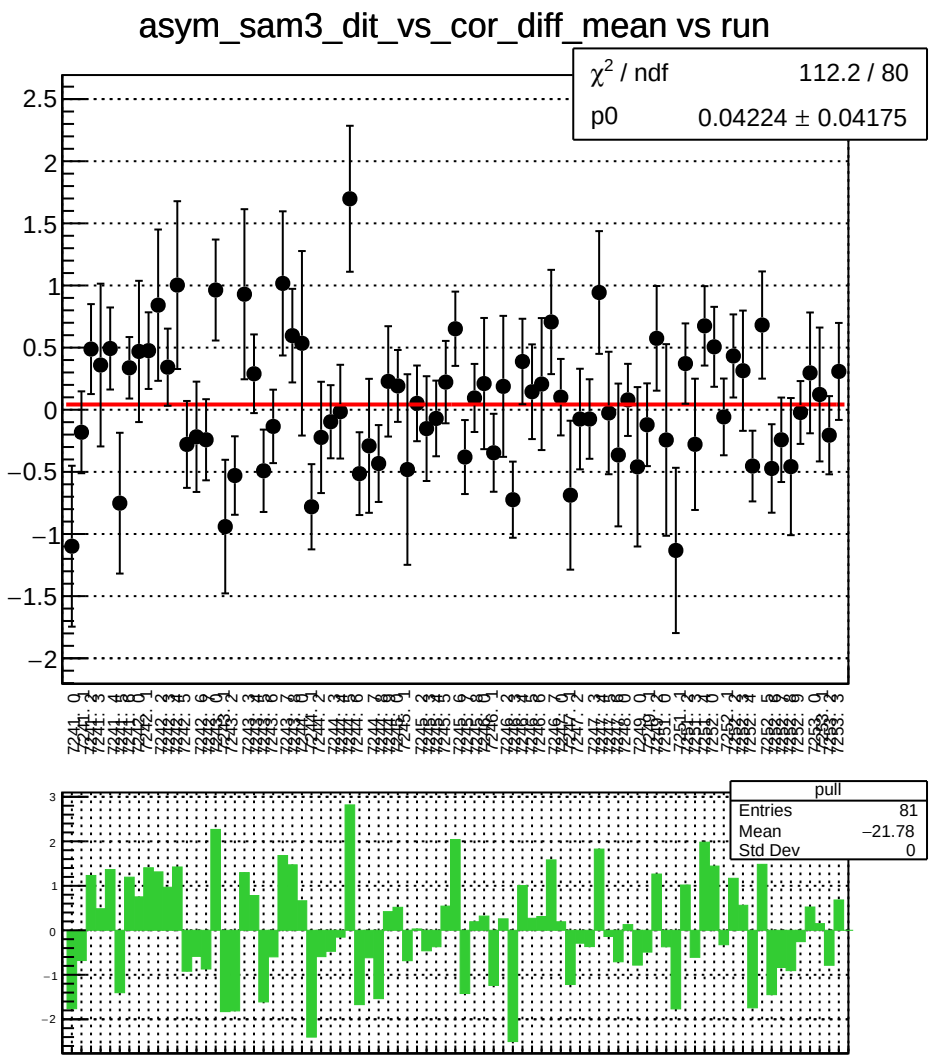

pull1D
Entries 81
Mean −0.01926
Std Dev 1.05
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

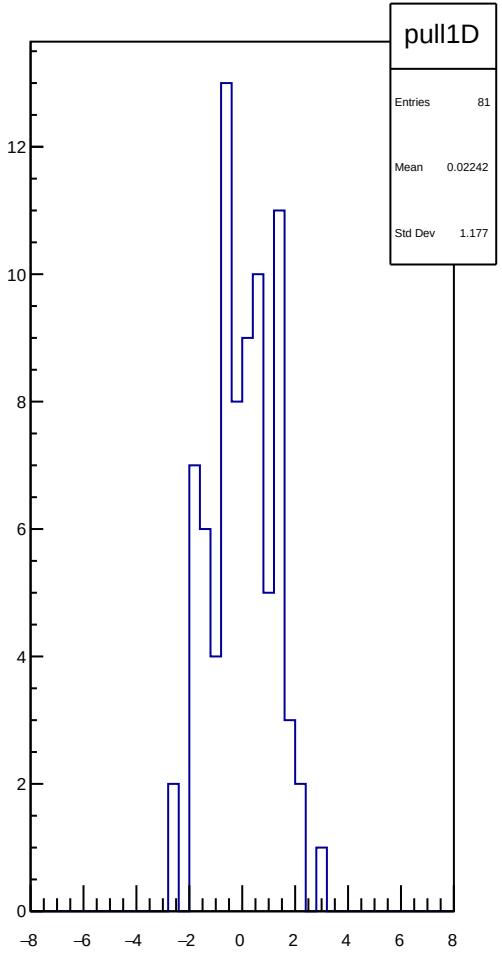

asym_sam3_rms vs run
χ² / ndf 8665 / 80
p0 608.6 ± 0.4903
720
700
680
660
640
620
600
580
560
540
520

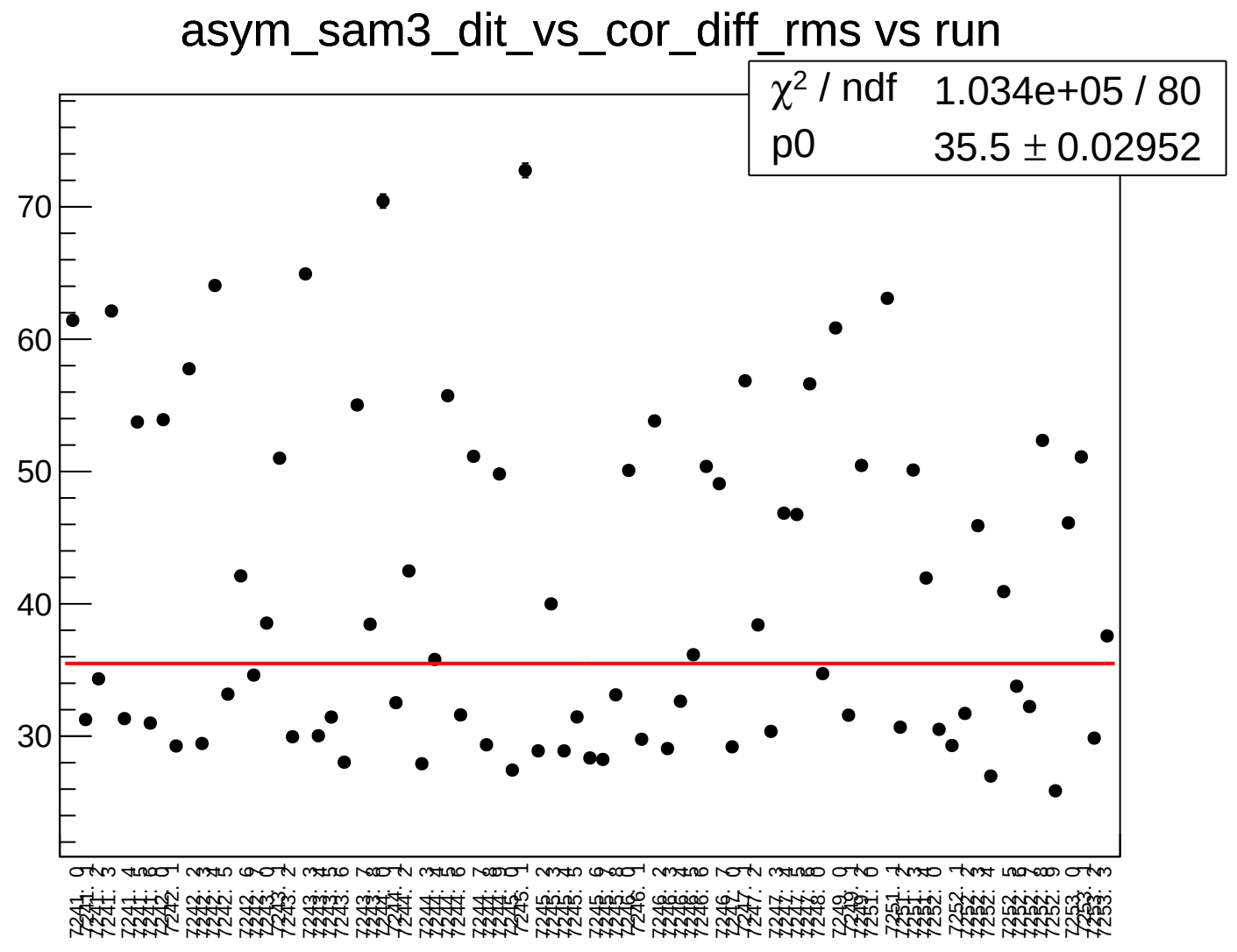

asym_sam3_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 88.08 / 80
p0 4.681e−14 ± 3.116e−14
pull
Entries 81
Mean −4.138
Std Dev 69.52

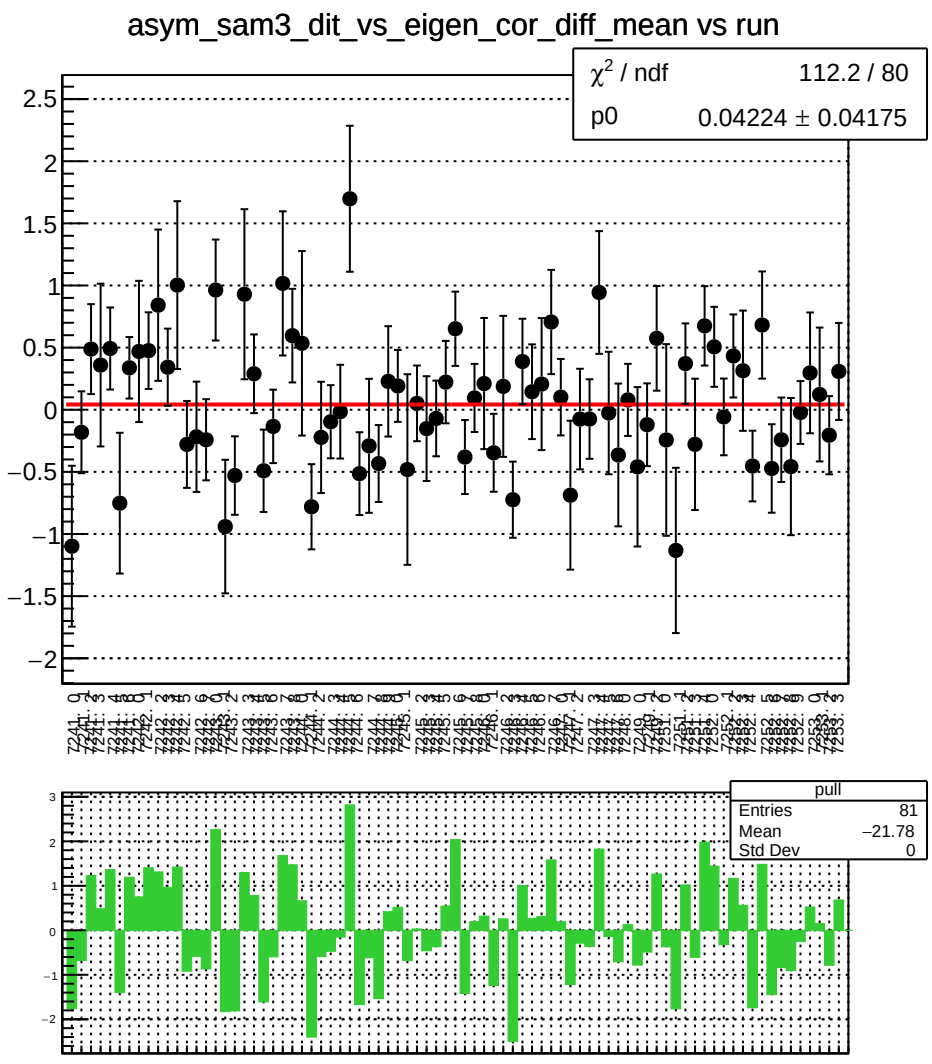

pull1D
Entries 81
Mean 0.005097
Std Dev 1.043

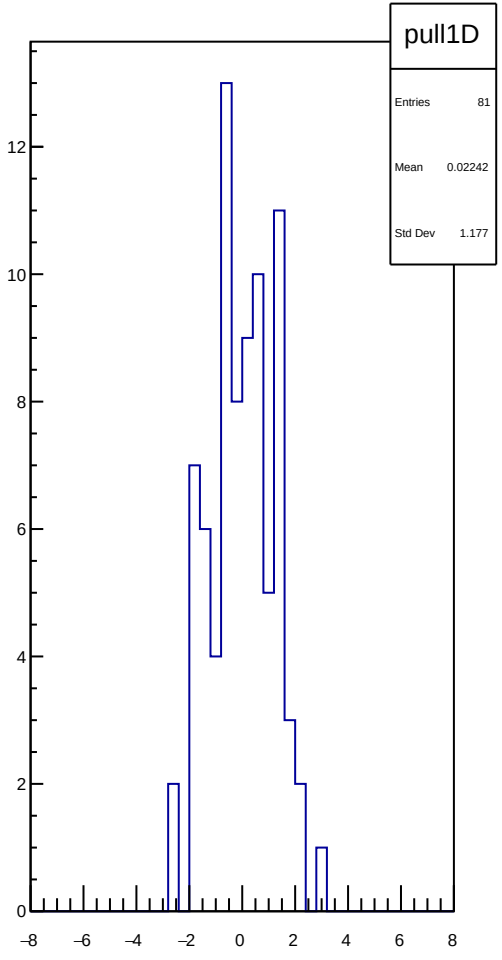

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 9.029e+05 / 80
p0 1.771e−11 ± 2.203e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

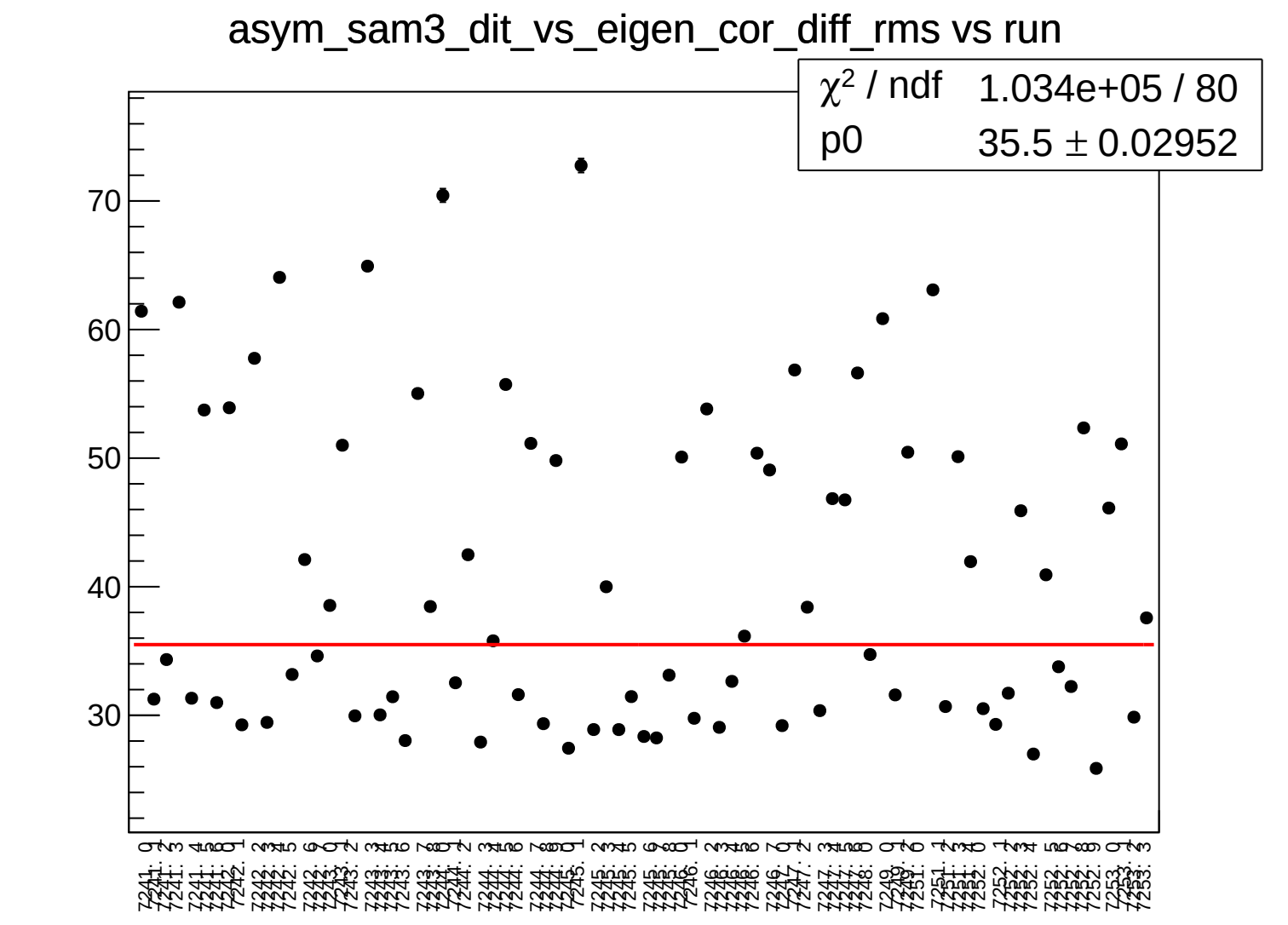

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 112.2 / 80
p0 0.04224 ± 0.04175
pull
Entries 81
Mean −21.78
Std Dev 0

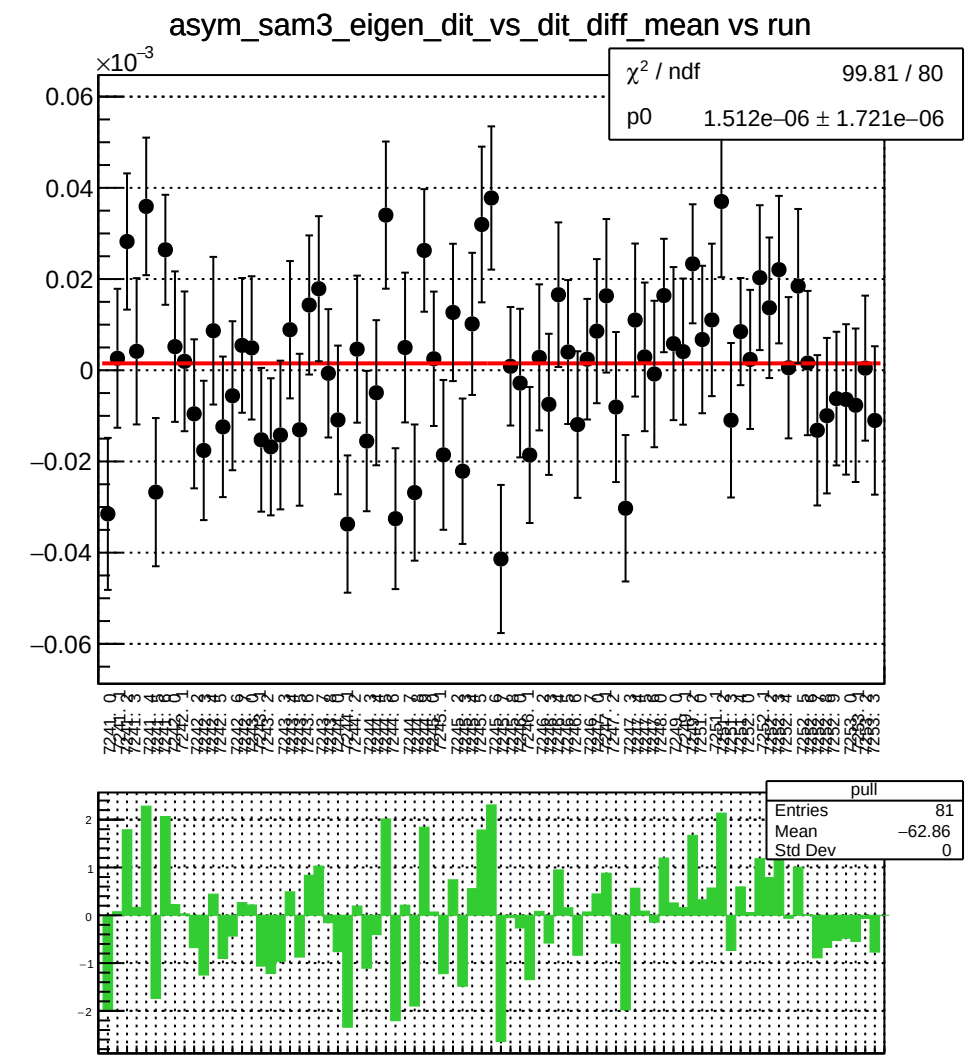

pull1D
Entries 81
Mean 0.02242
Std Dev 1.177

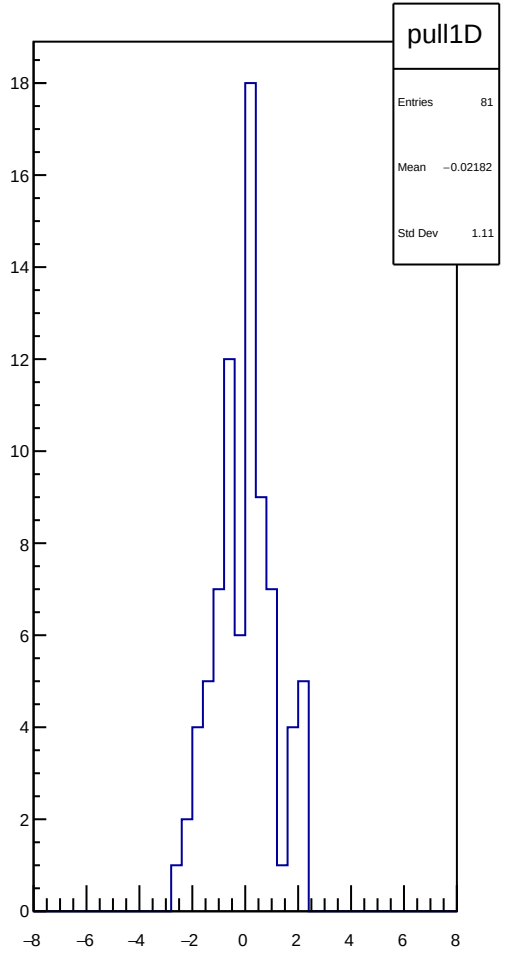

asym_sam3_dit_vs_cor_diff_rms vs run
χ² / ndf 1.034e+05 / 80
p0 35.5 ± 0.02952
70
60
50
40
30

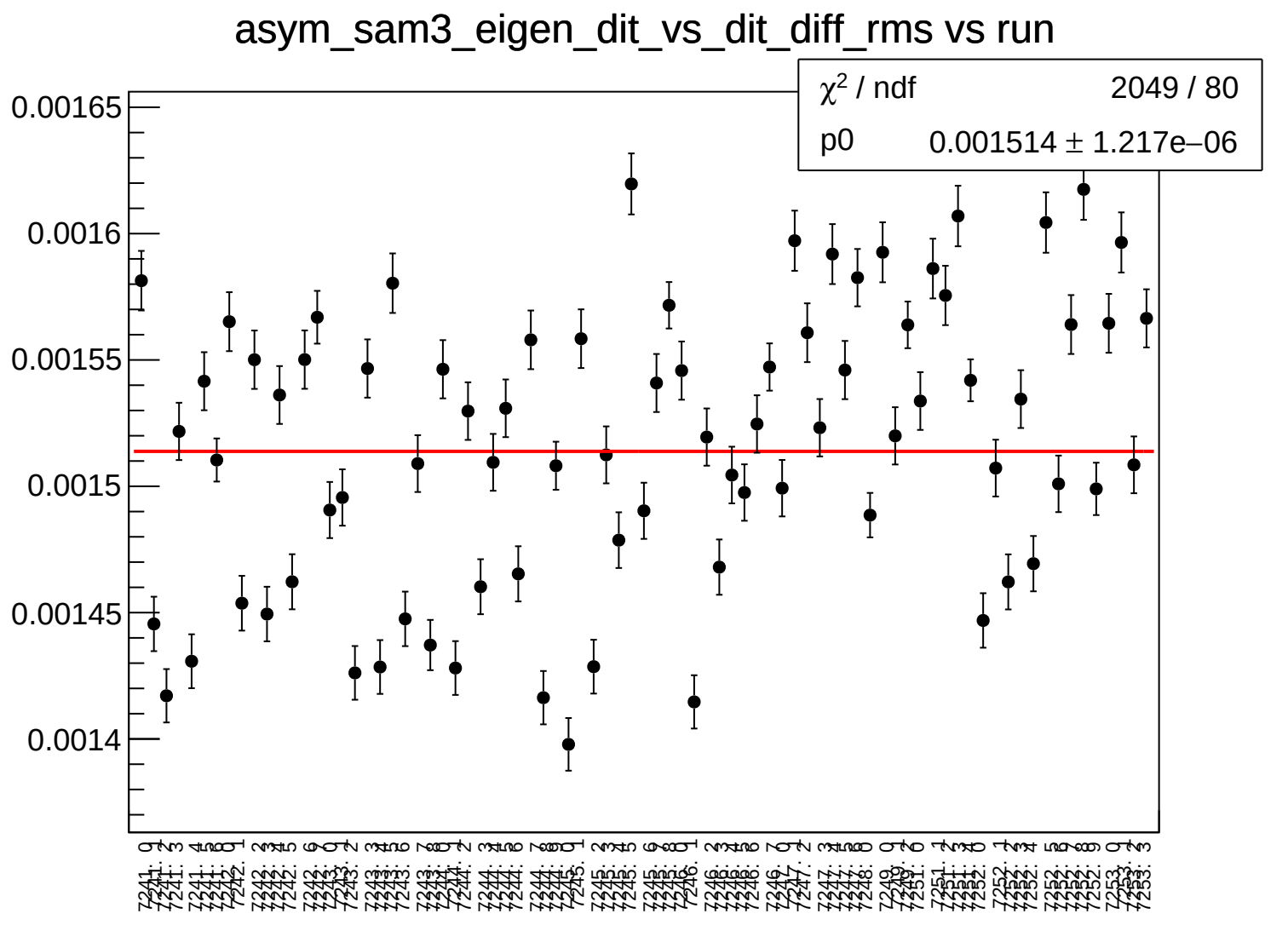

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.2 / 80
p0 0.04224 ± 0.04175
pull
Entries 81
Mean −21.78
Std Dev 0

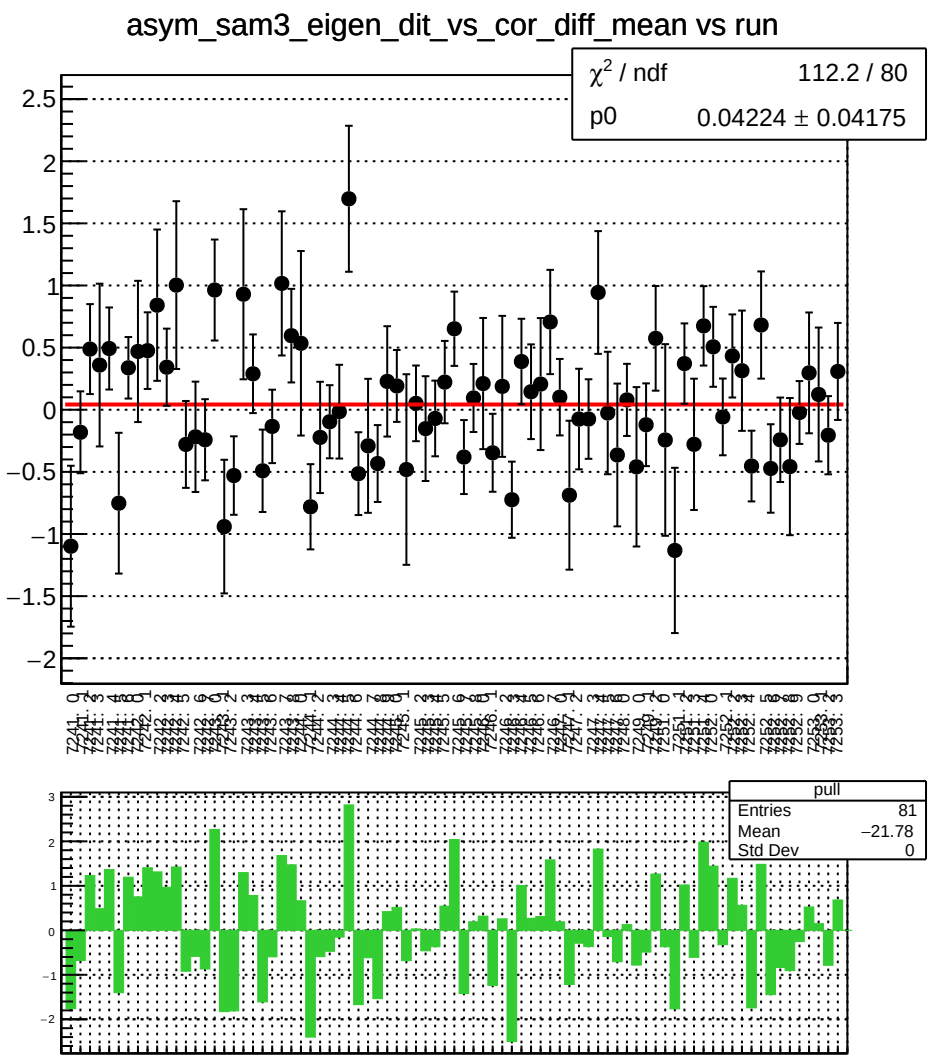

pull1D
Entries 81
Mean 0.02242
Std Dev 1.177

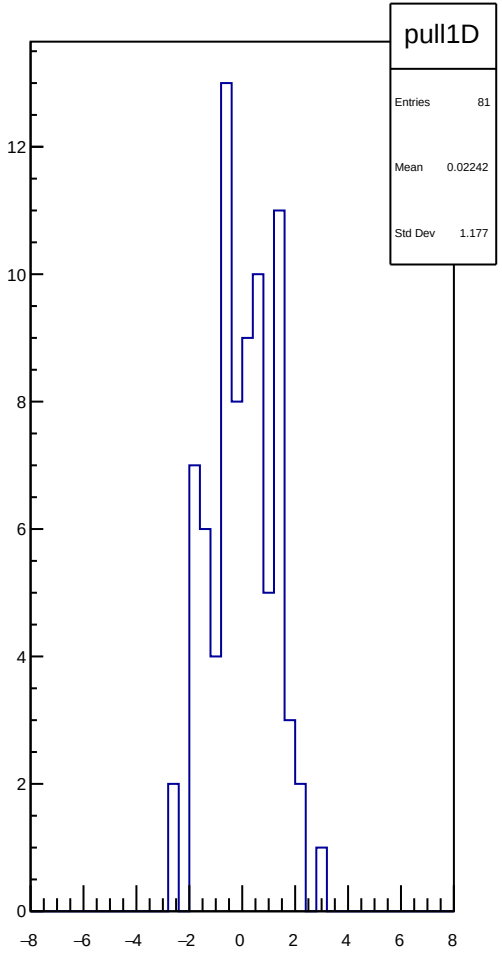

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.034e+05 / 80
p0 35.5 ± 0.02952
70
60
50
40
30

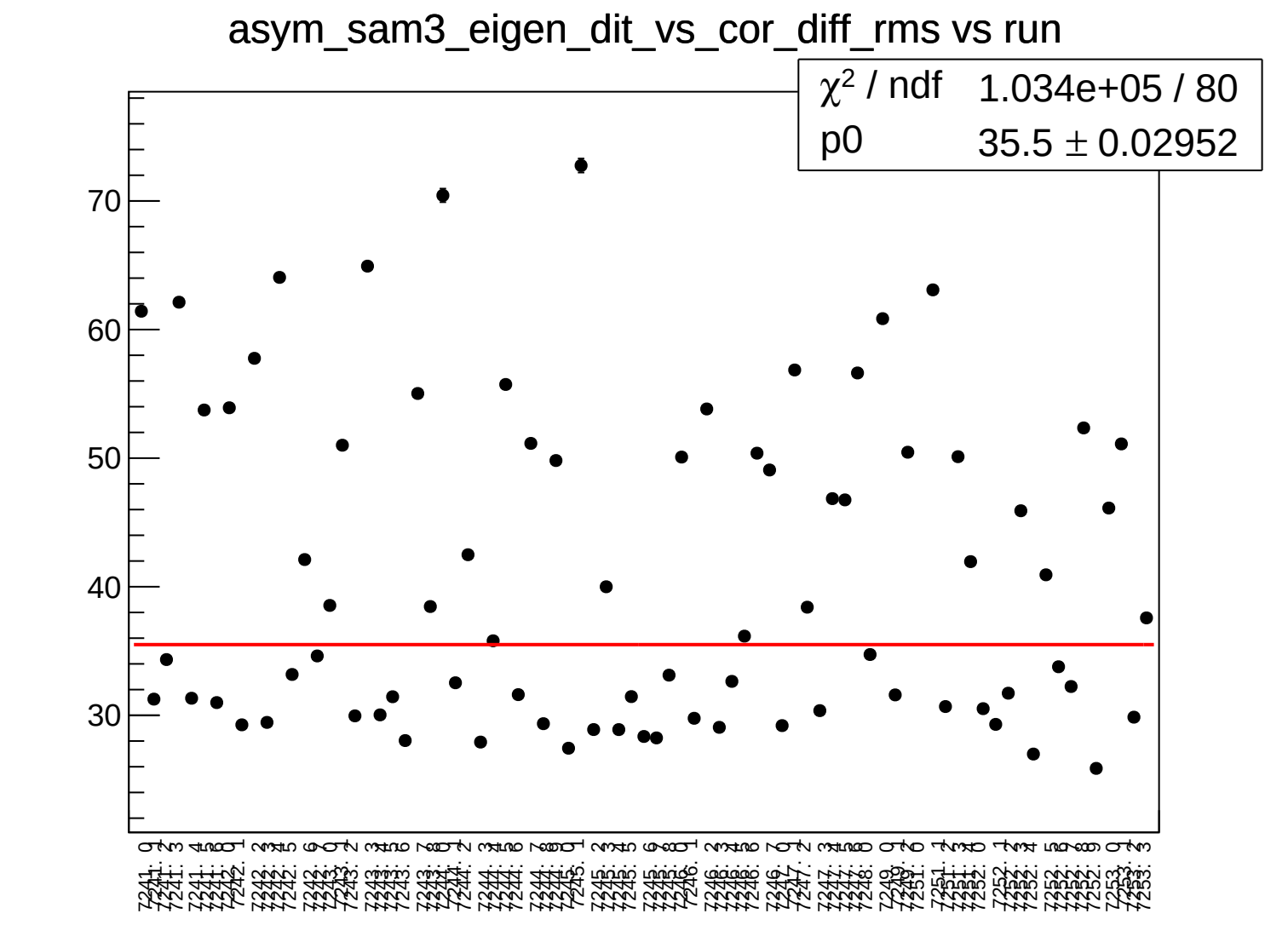

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.81 / 80
p0 1.512e−06 ± 1.721e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 81
Mean −62.86
Std Dev 0
2
1
0
−1
−2

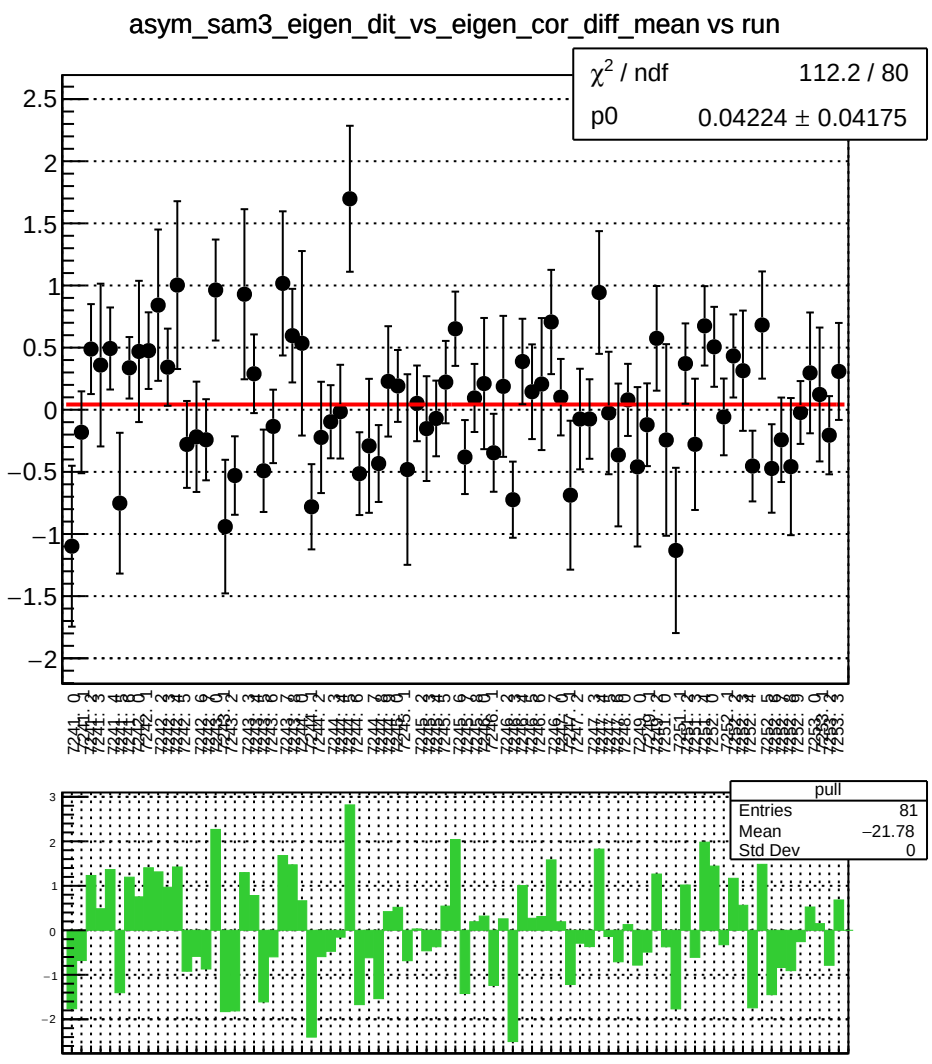

pull1D
Entries 81
Mean −0.02182
Std Dev 1.11
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

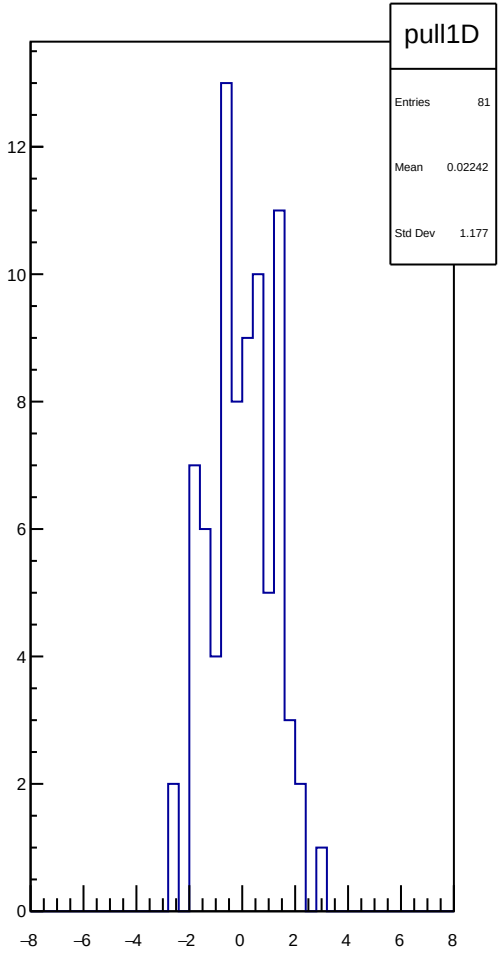

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2049 / 80
p0 0.001514 ± 1.217e−06
0.00165
0.0016
0.00155
0.0015
0.00145
0.0014

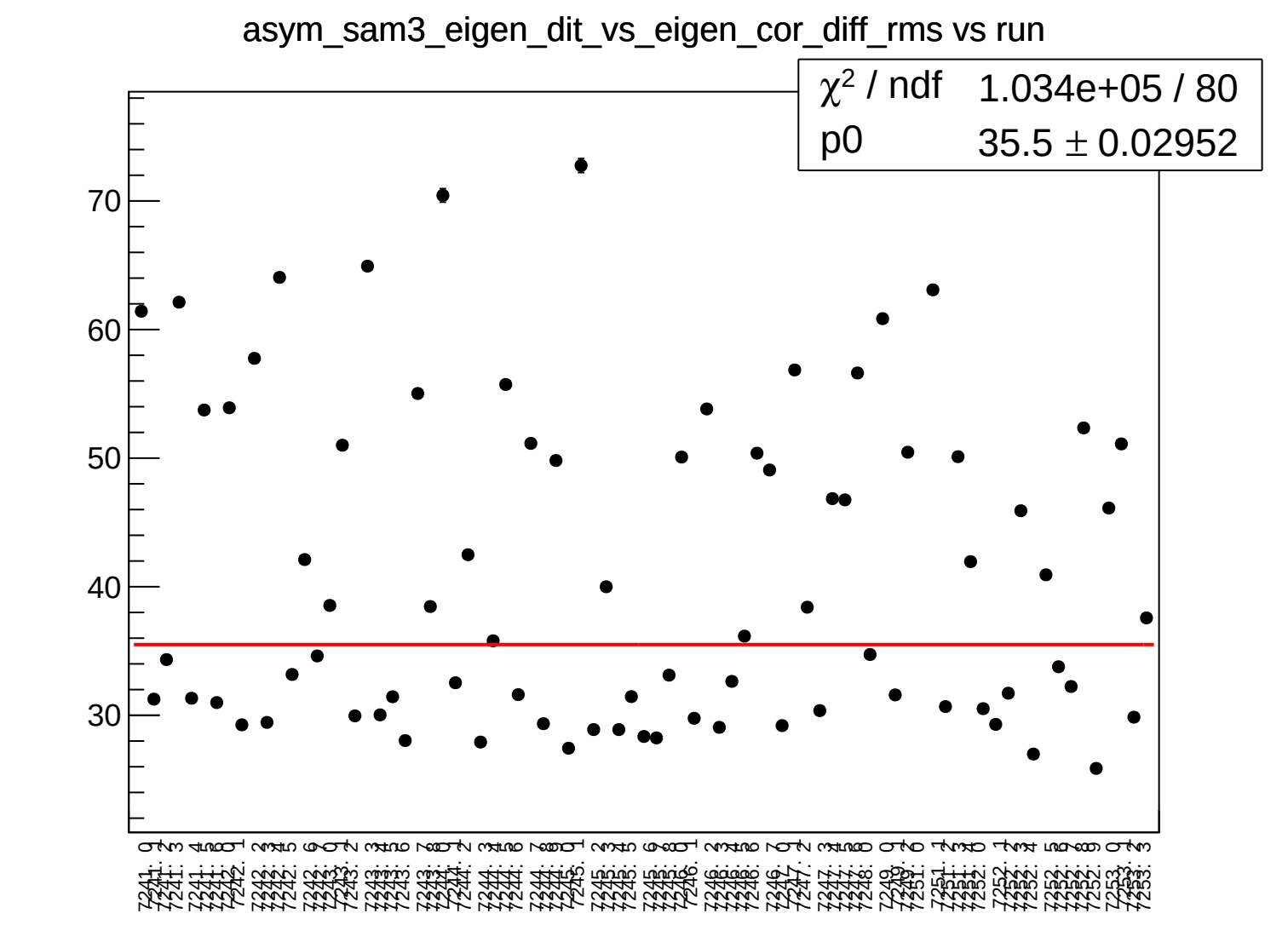

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 112.2 / 80
p0 0.04224 ± 0.04175
pull
Entries 81
Mean −21.78
Std Dev 0

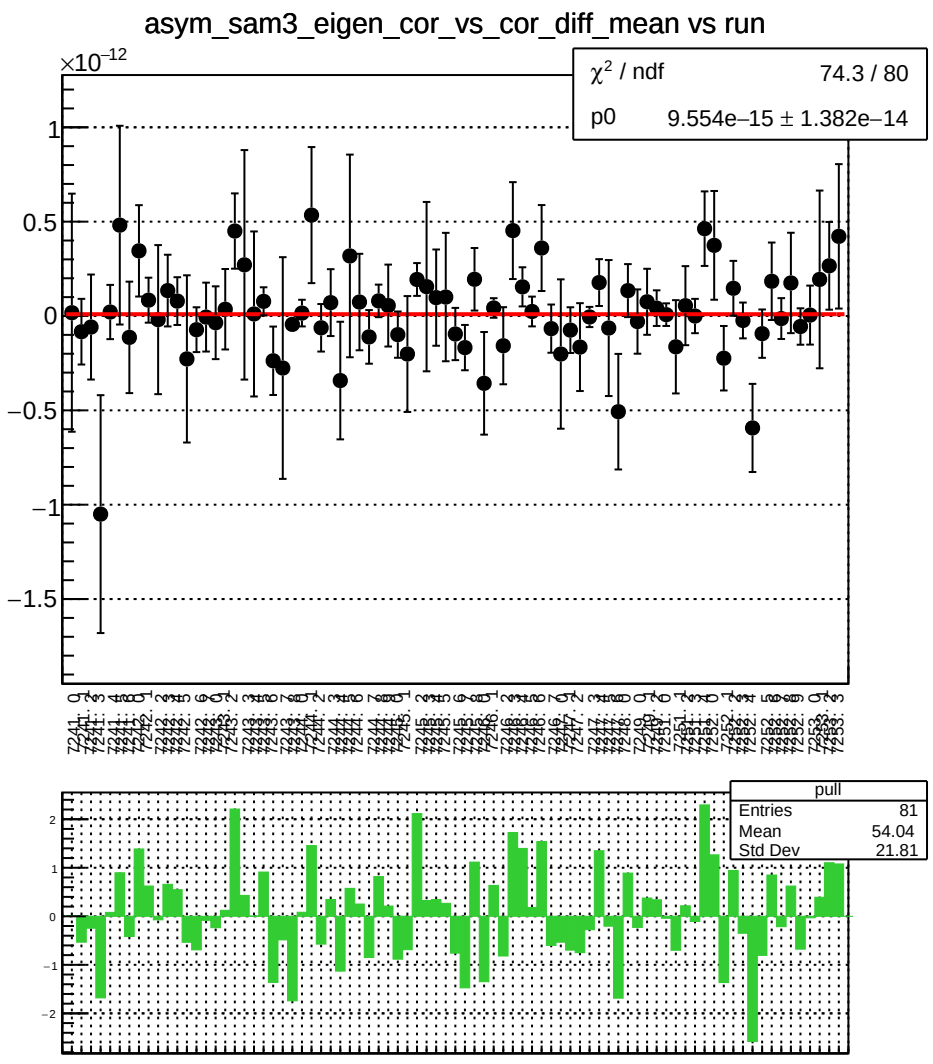

pull1D
Entries 81
Mean 0.02242
Std Dev 1.177

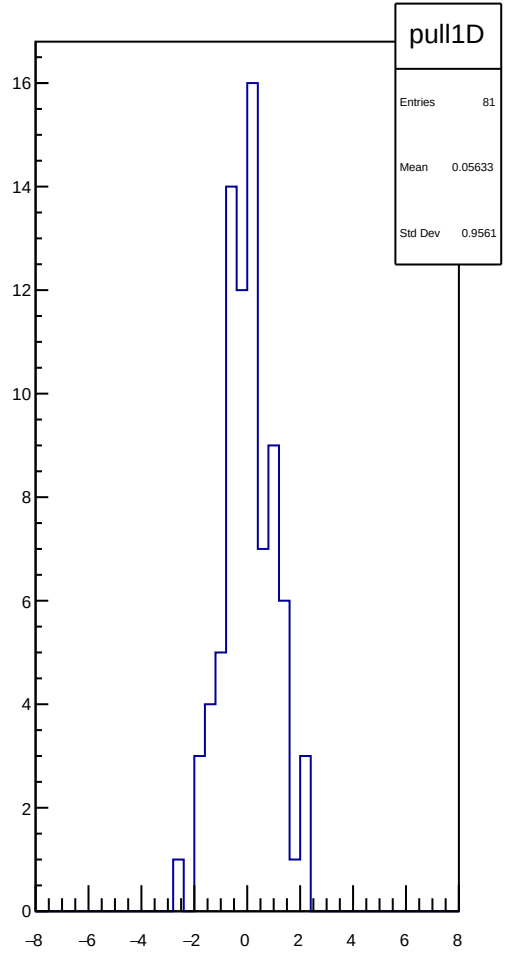

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.034e+05 / 80
p0 35.5 ± 0.02952
70
60
50
40
30

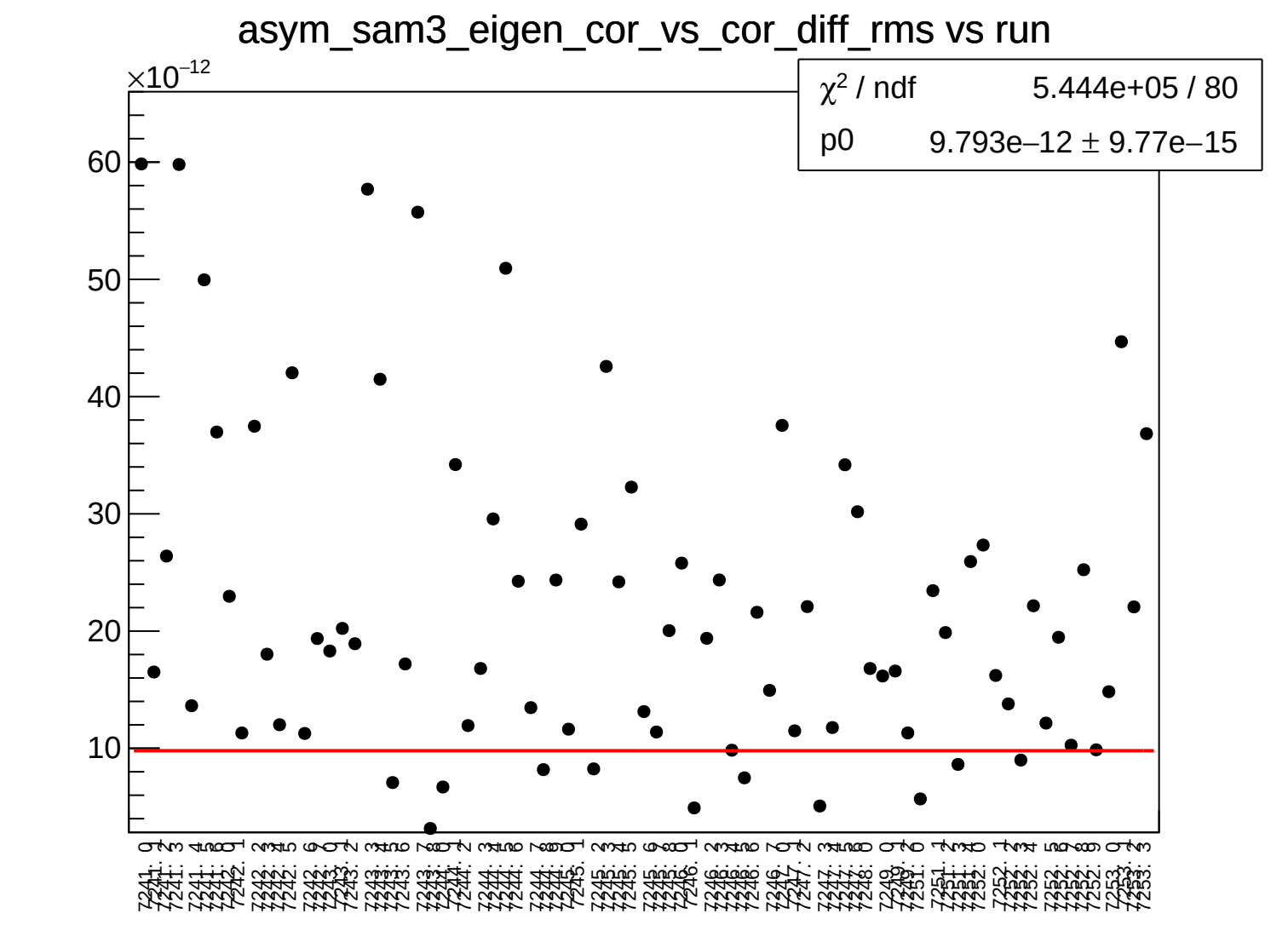

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.2 / 80
p0 0.04224 ± 0.04175
pull
Entries 81
Mean −21.78
Std Dev 0

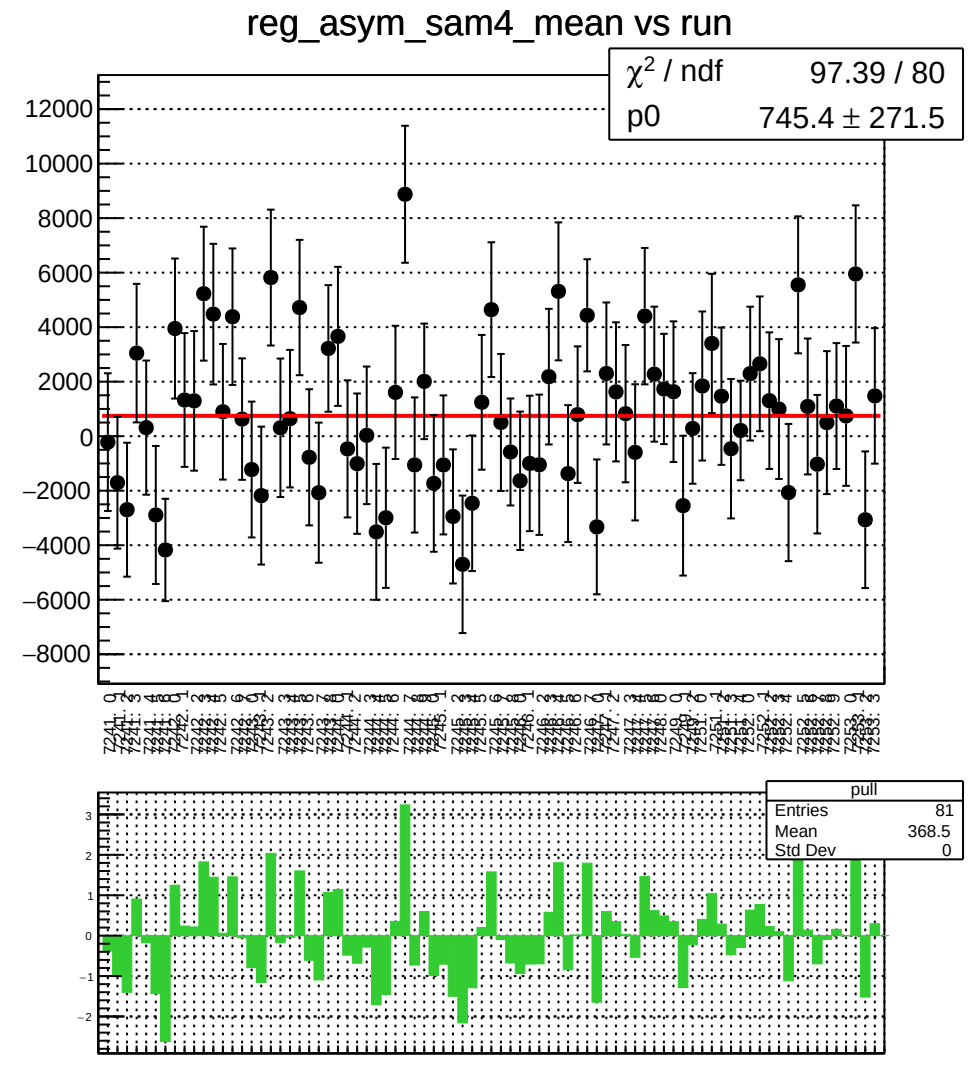

pull1D
Entries 81
Mean 0.02242
Std Dev 1.177

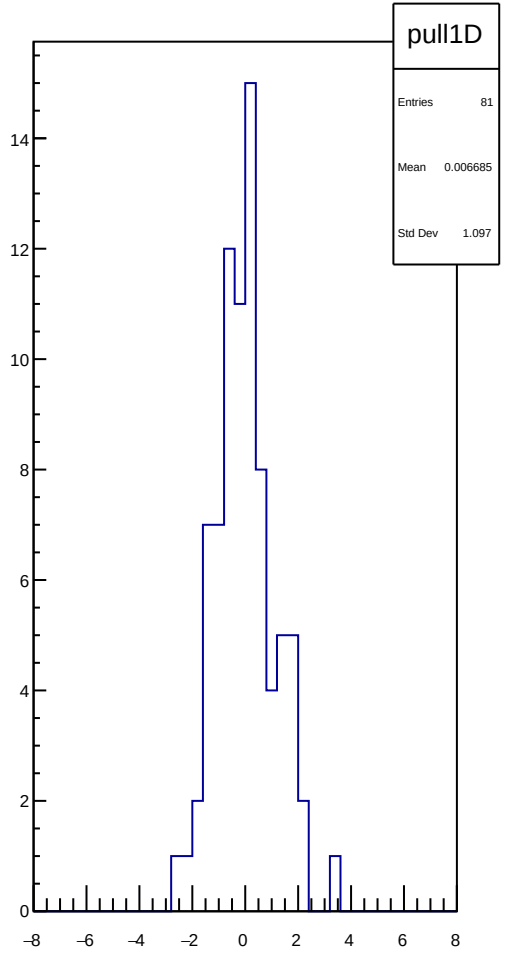

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.034e+05 / 80
p0 35.5 ± 0.02952
70
60
50
40
30

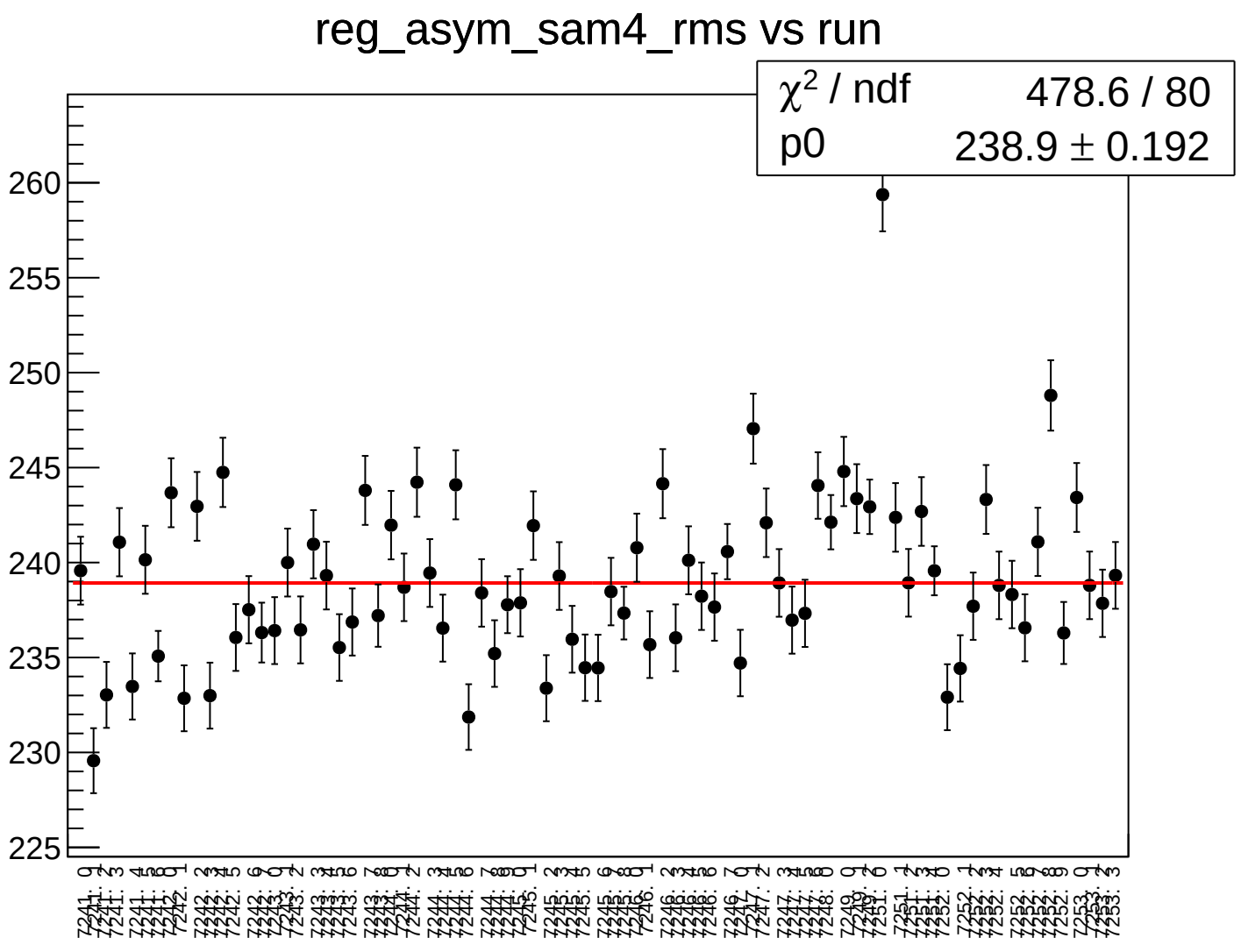

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.3 / 80
p0 9.554e−15 ± 1.382e−14
pull
Entries 81
Mean 54.04
Std Dev 21.81

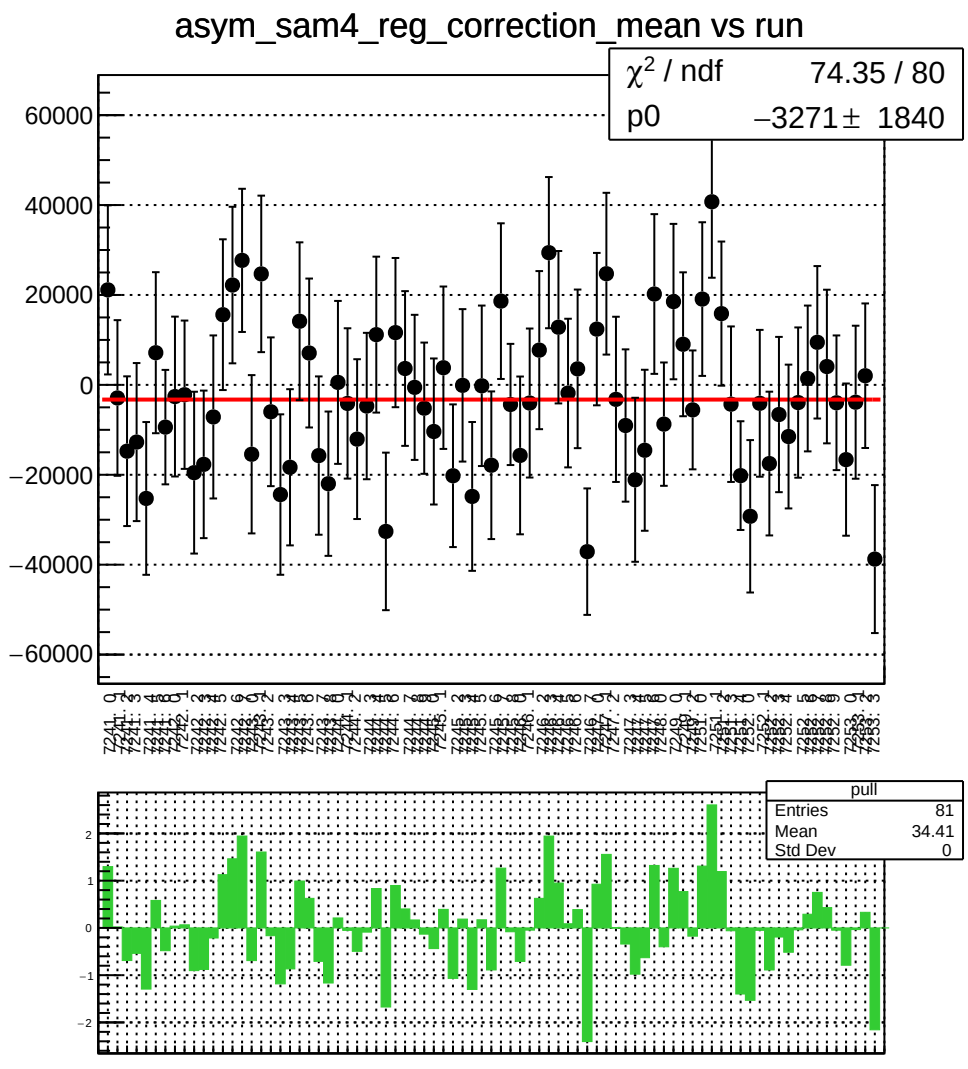

pull1D
Entries 81
Mean 0.05633
Std Dev 0.9561

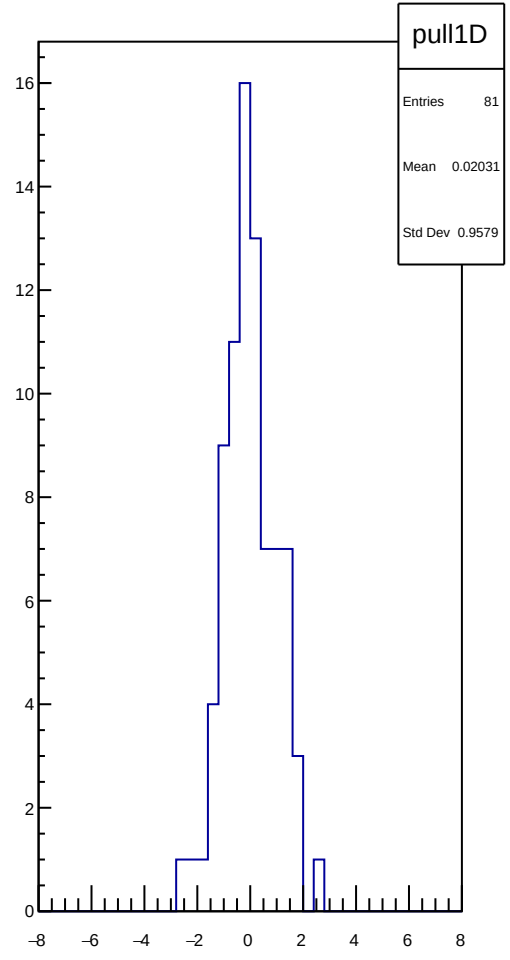

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.444e+05 / 80
p0 9.793e−12 ± 9.77e−15
60
50
40
30
20
10

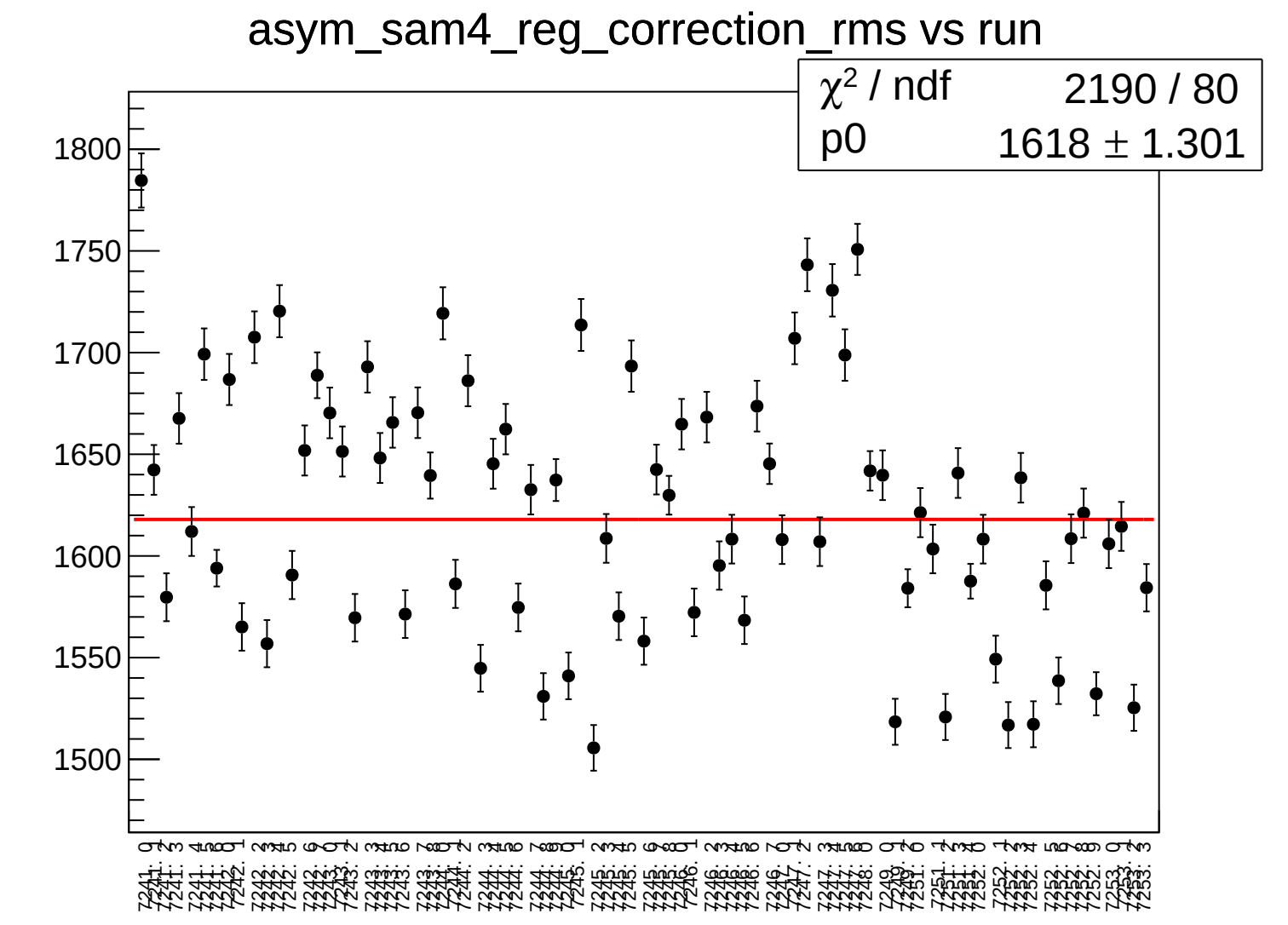

reg_asym_sam4_mean vs run
χ² / ndf 97.39 / 80
p0 745.4 ± 271.5
pull
Entries 81
Mean 368.5
Std Dev 0

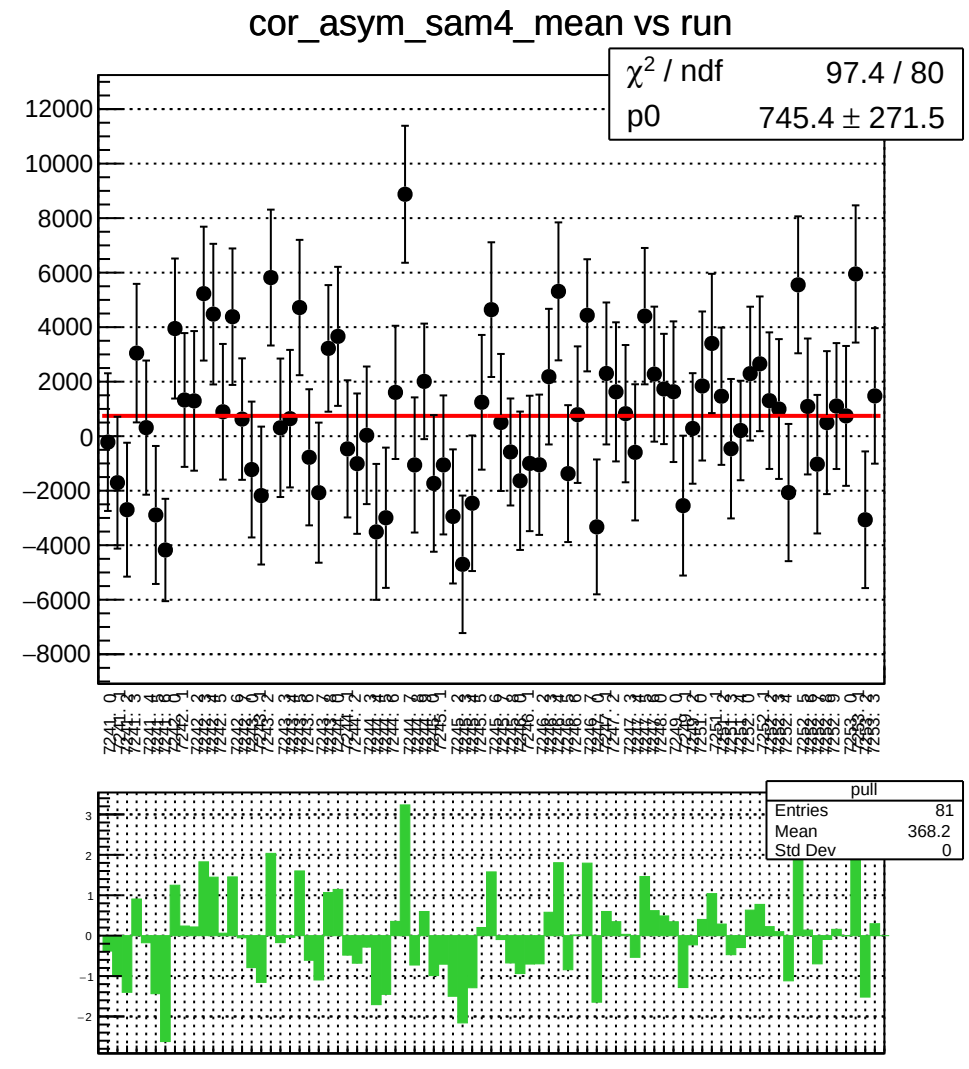

pull1D
Entries 81
Mean 0.006685
Std Dev 1.097

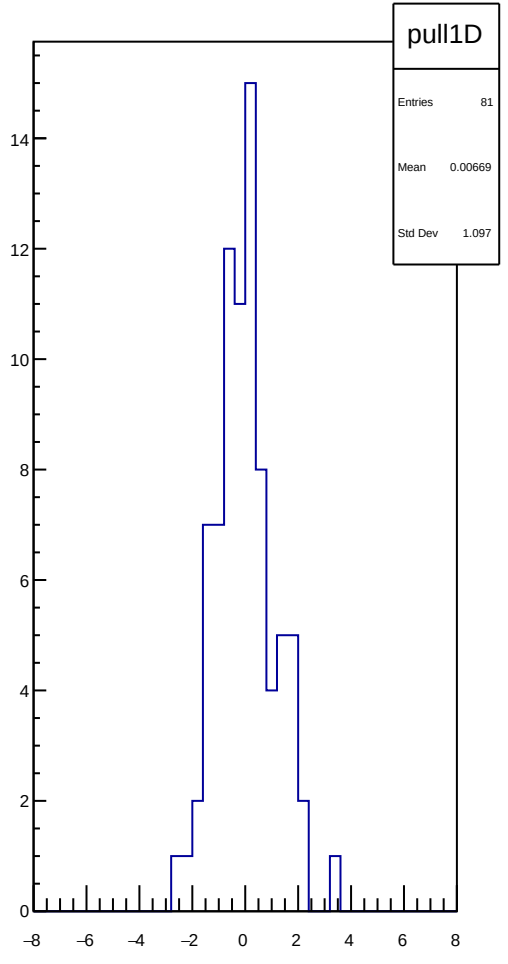

reg_asym_sam4_rms vs run
χ² / ndf 478.6 / 80
p0 238.9 ± 0.192
260
255
250
245
240
235
230
225

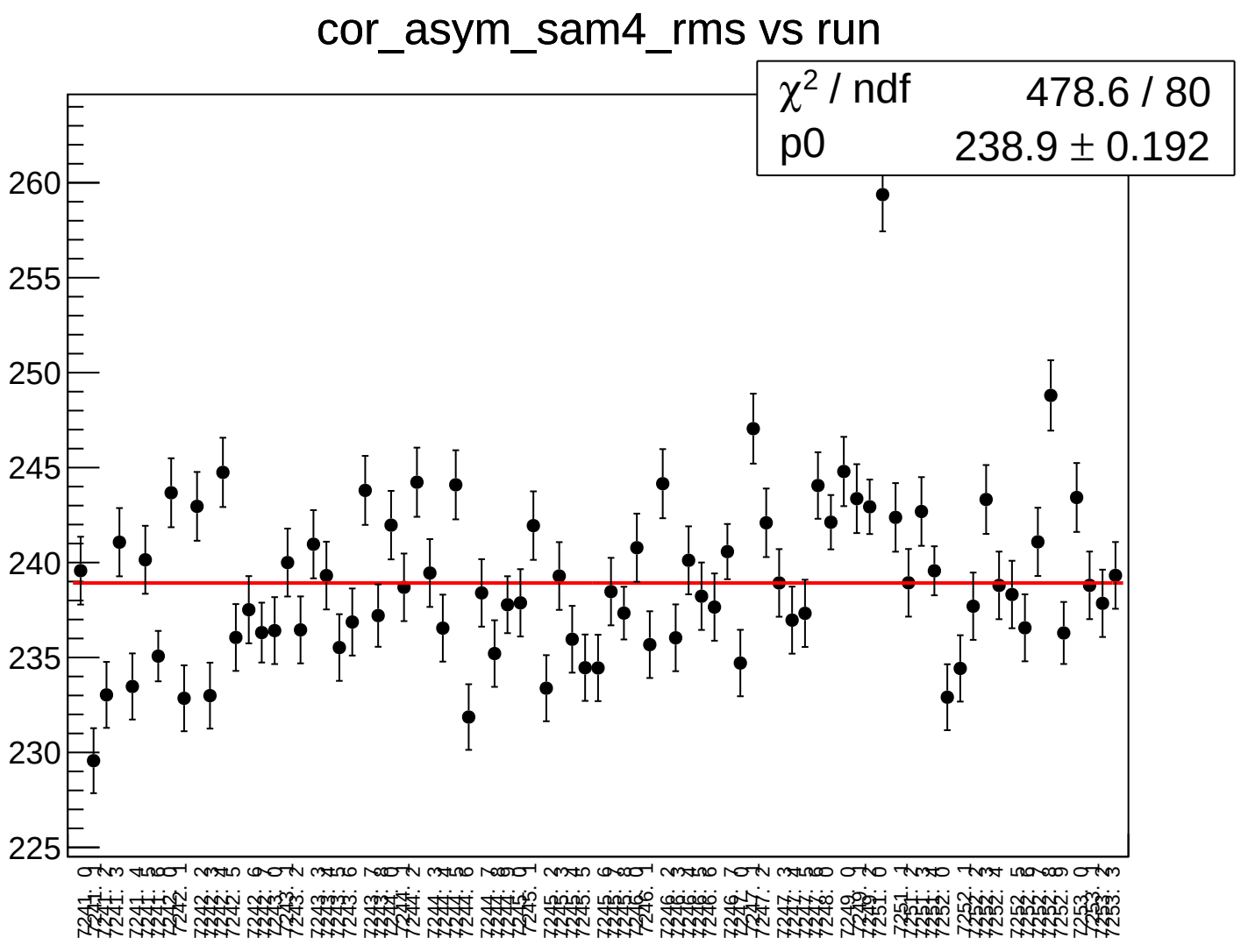

asym_sam4_reg_correction_mean vs run
χ² / ndf 74.35 / 80
p0 −3271 ± 1840
pull
Entries 81
Mean 34.41
Std Dev 0

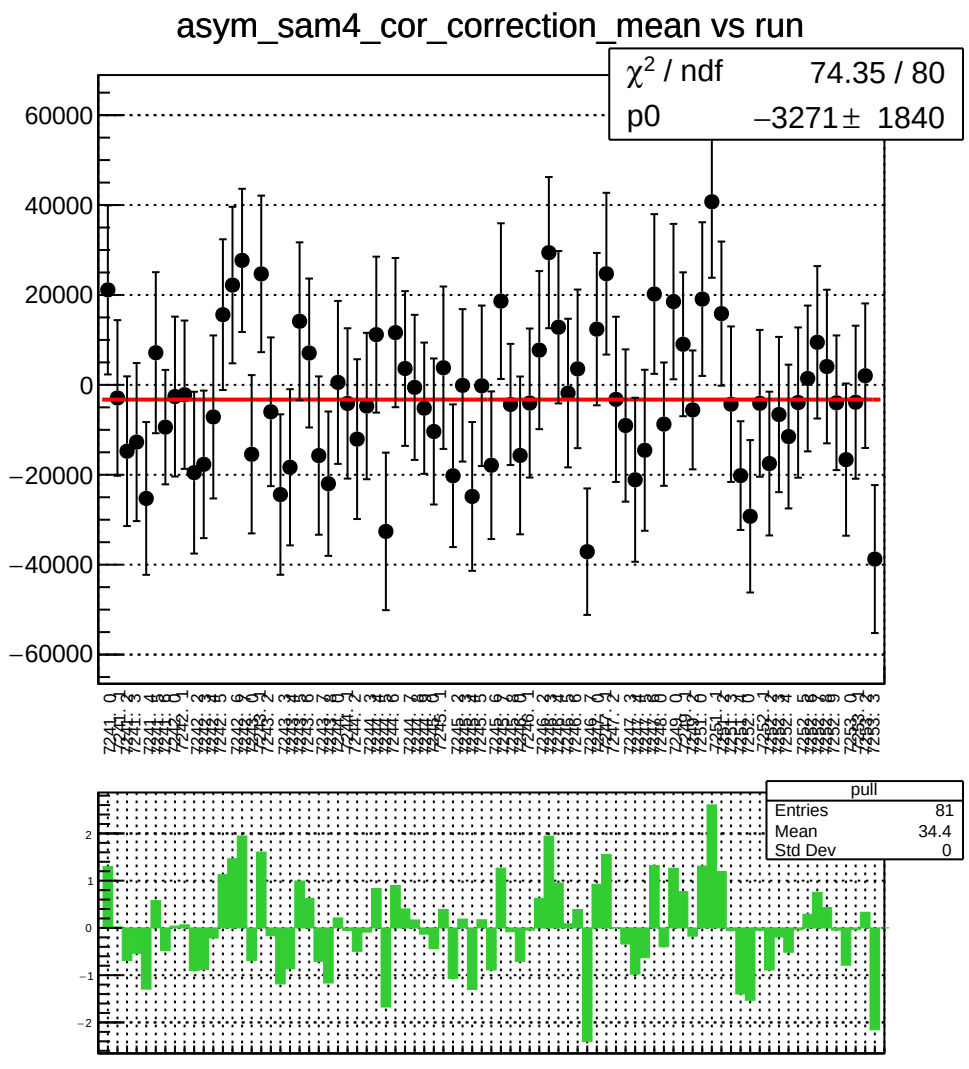

pull1D
Entries 81
Mean 0.02031
Std Dev 0.9579

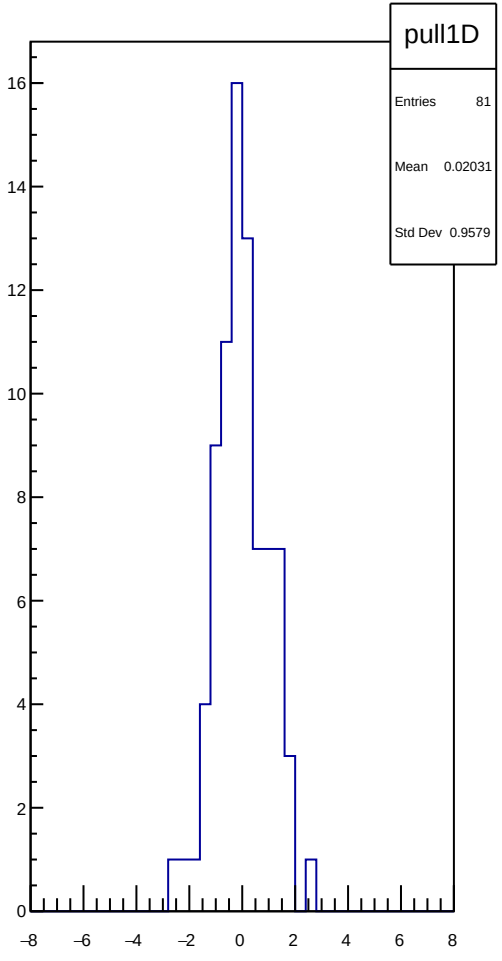

asym_sam4_reg_correction_rms vs run
χ² / ndf 2190 / 80
p0 1618 ± 1.301
1800
1750
1700
1650
1600
1550
1500

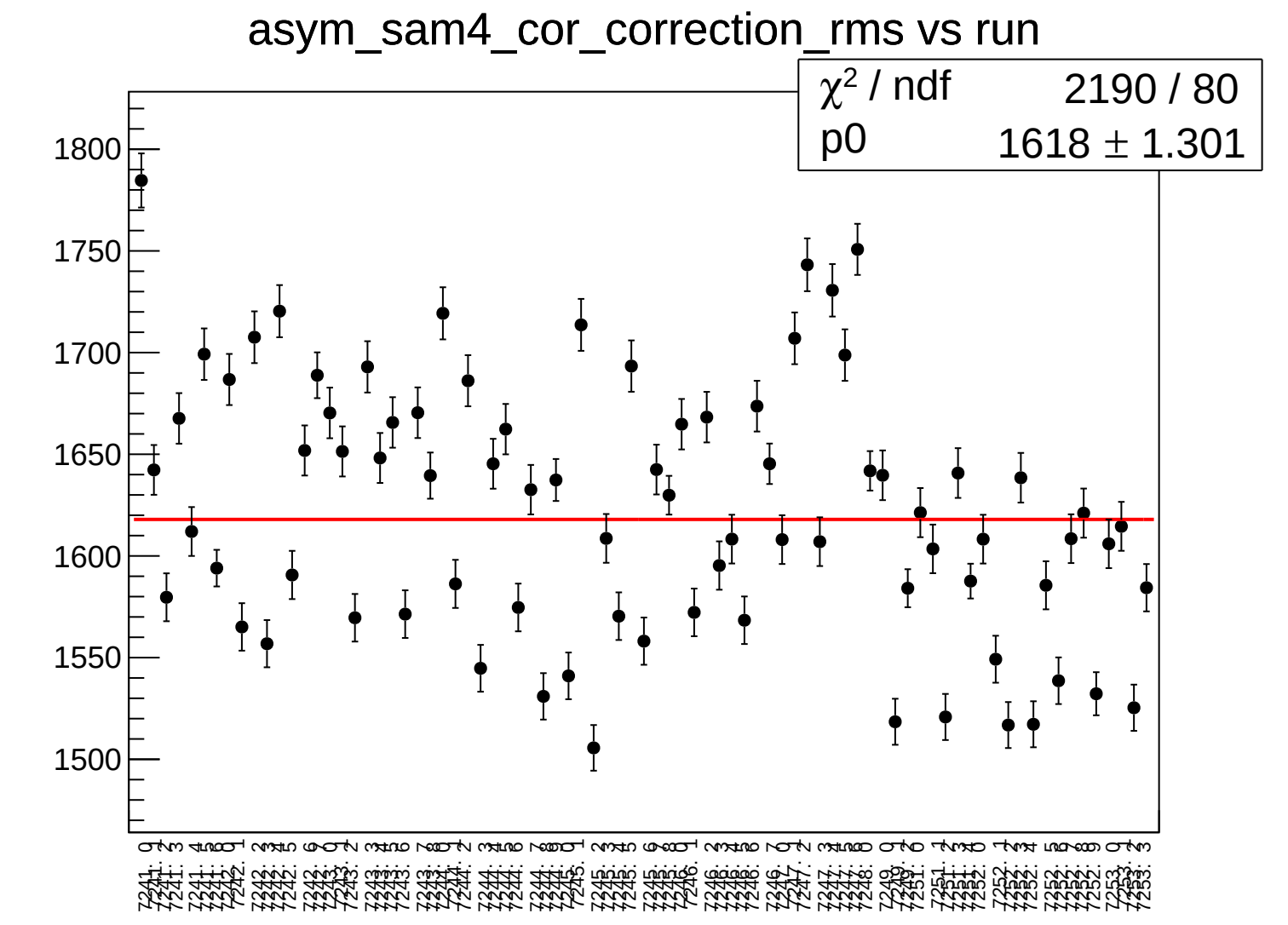

cor_asym_sam4_mean vs run
χ² / ndf 97.4 / 80
p0 745.4 ± 271.5
pull
Entries 81
Mean 368.2
Std Dev 0

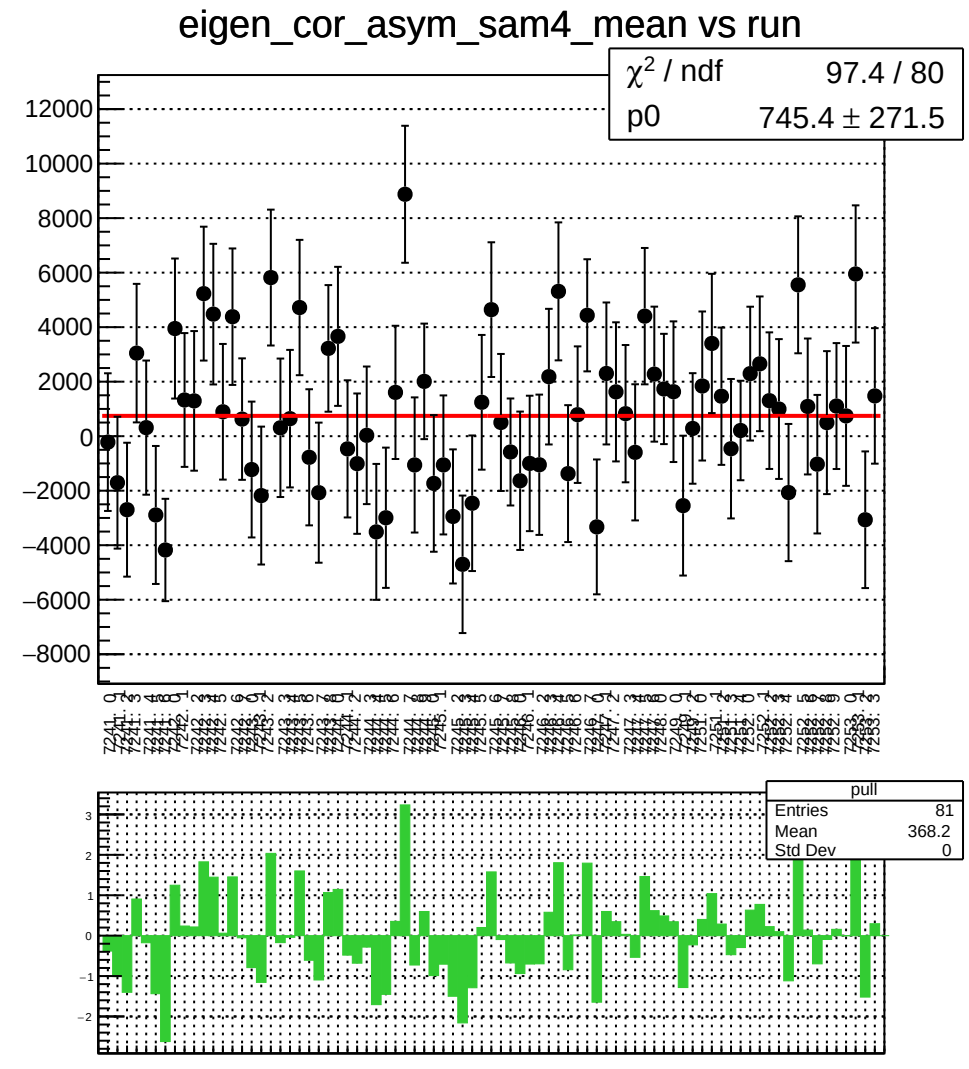

pull1D
Entries 81
Mean 0.00669
Std Dev 1.097

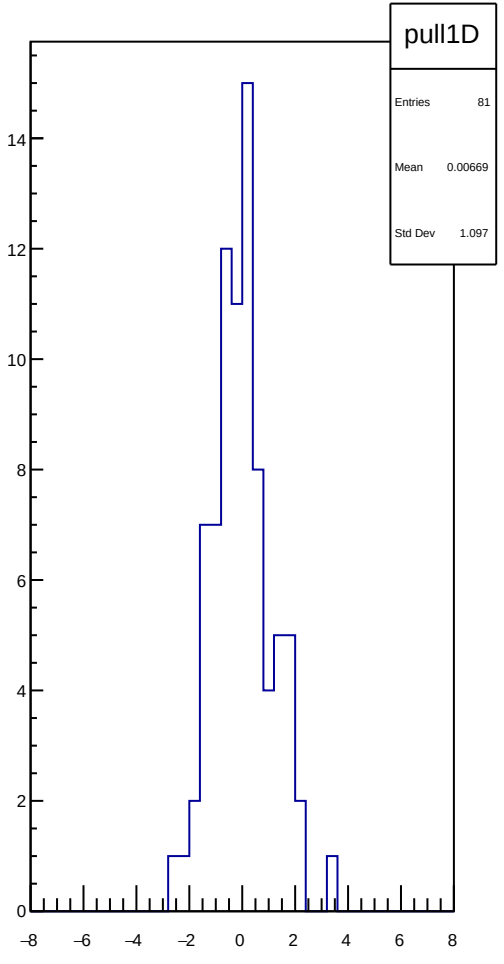

cor_asym_sam4_rms vs run
χ² / ndf 478.6 / 80
p0 238.9 ± 0.192
260
255
250
245
240
235
230
225

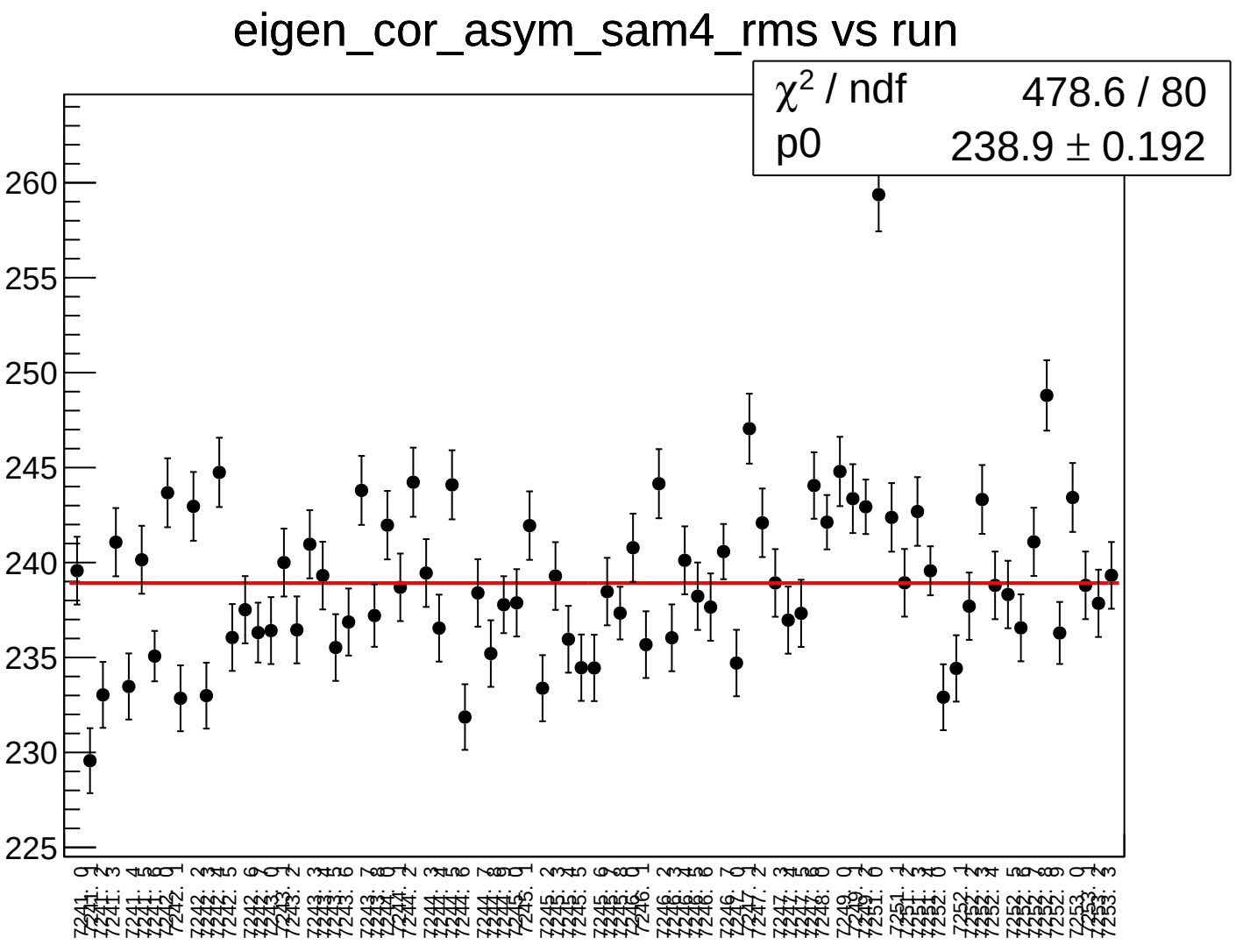

asym_sam4_cor_correction_mean vs run
χ² / ndf 74.35 / 80
p0 −3271 ± 1840
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean 34.4
Std Dev 0
2
1
0
−1
−2

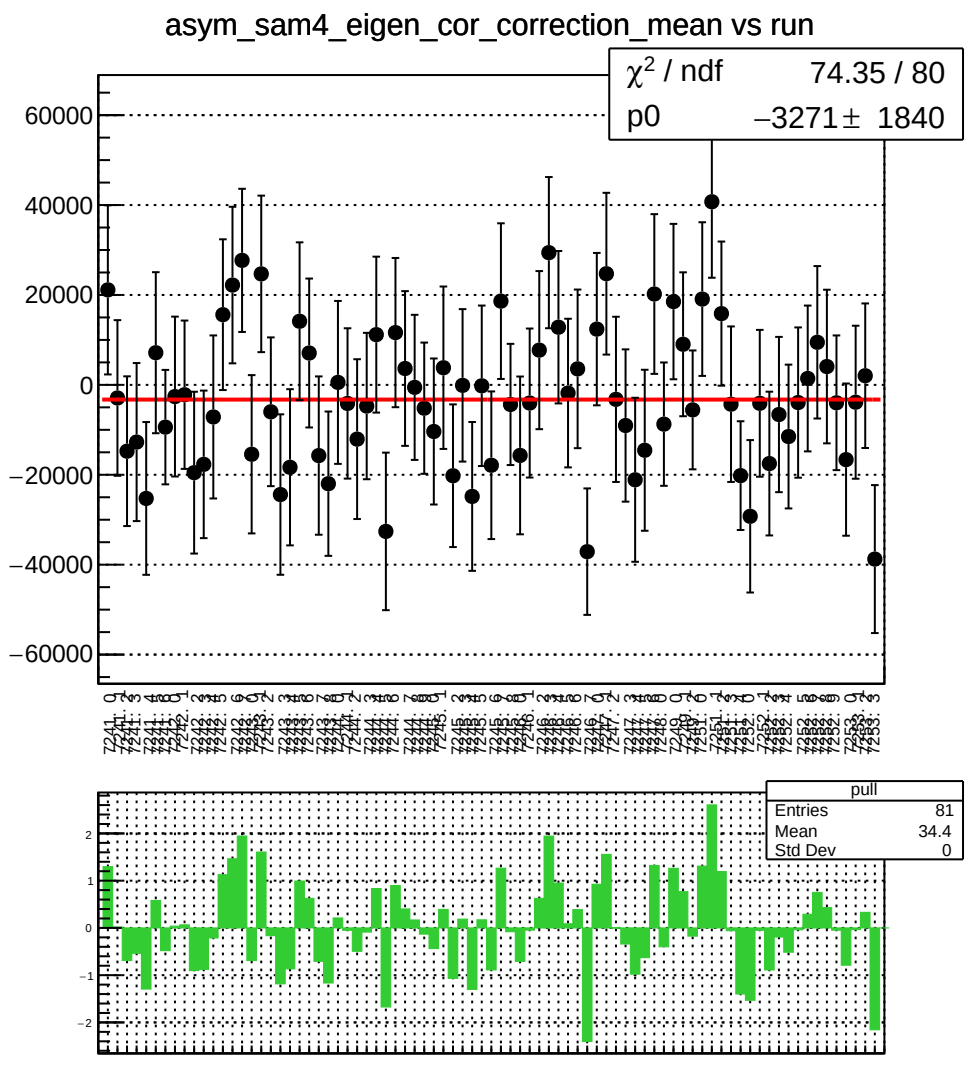

pull1D
Entries 81
Mean 0.02031
Std Dev 0.9579
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

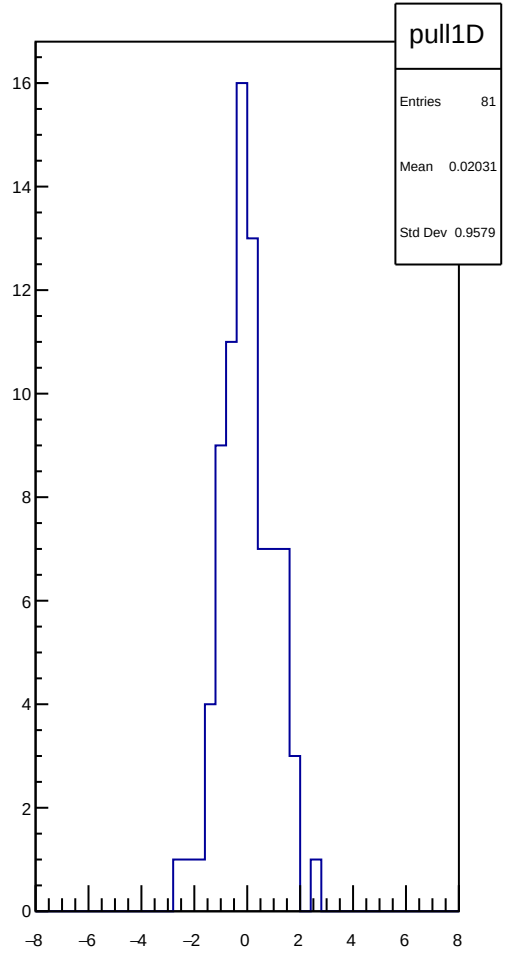

asym_sam4_cor_correction_rms vs run
χ² / ndf 2190 / 80
p0 1618 ± 1.301
1800
1750
1700
1650
1600
1550
1500

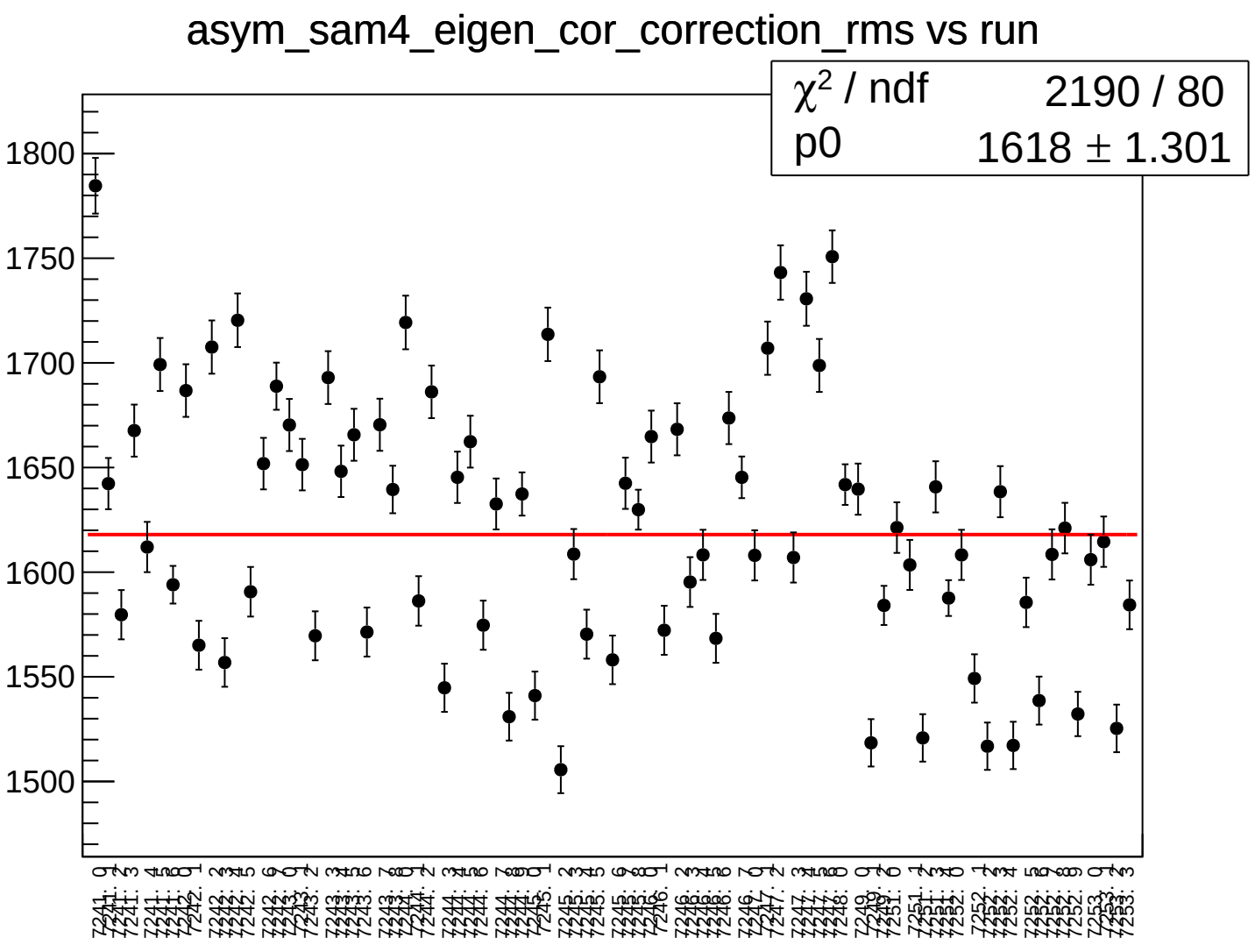

eigen_cor_asym_sam4_mean vs run
χ² / ndf 97.4 / 80
p0 745.4 ± 271.5
pull
Entries 81
Mean 368.2
Std Dev 0

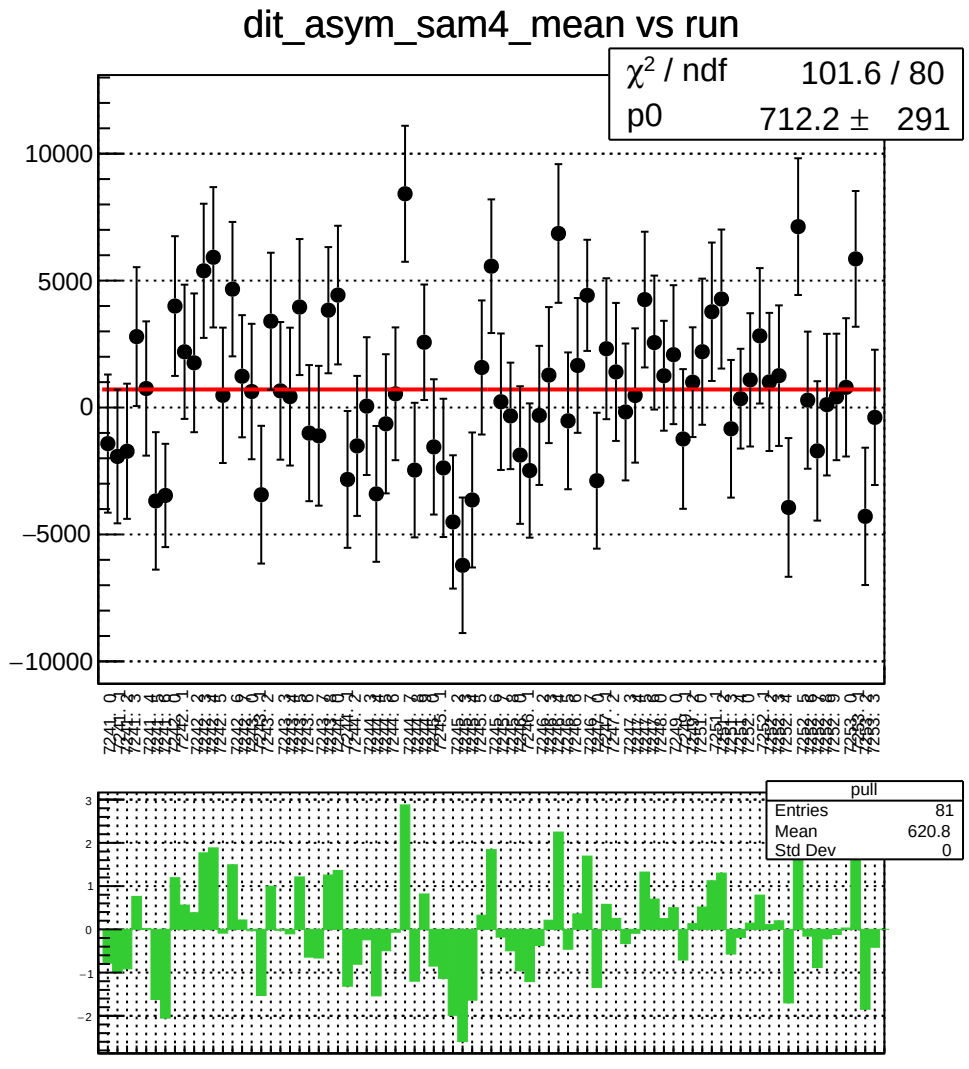

pull1D
Entries 81
Mean 0.00669
Std Dev 1.097

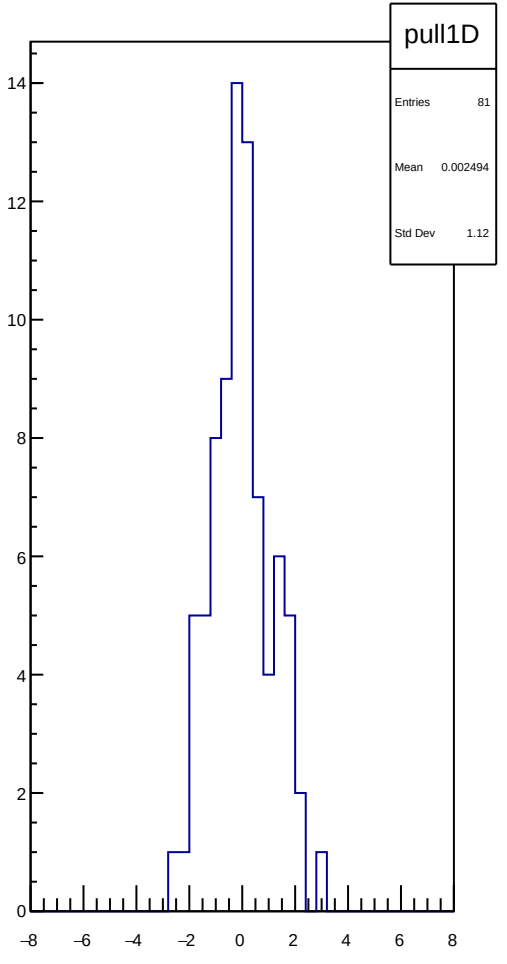

eigen_cor_asym_sam4_rms vs run
χ² / ndf 478.6 / 80
p0 238.9 ± 0.192
260
255
250
245
240
235
230
225

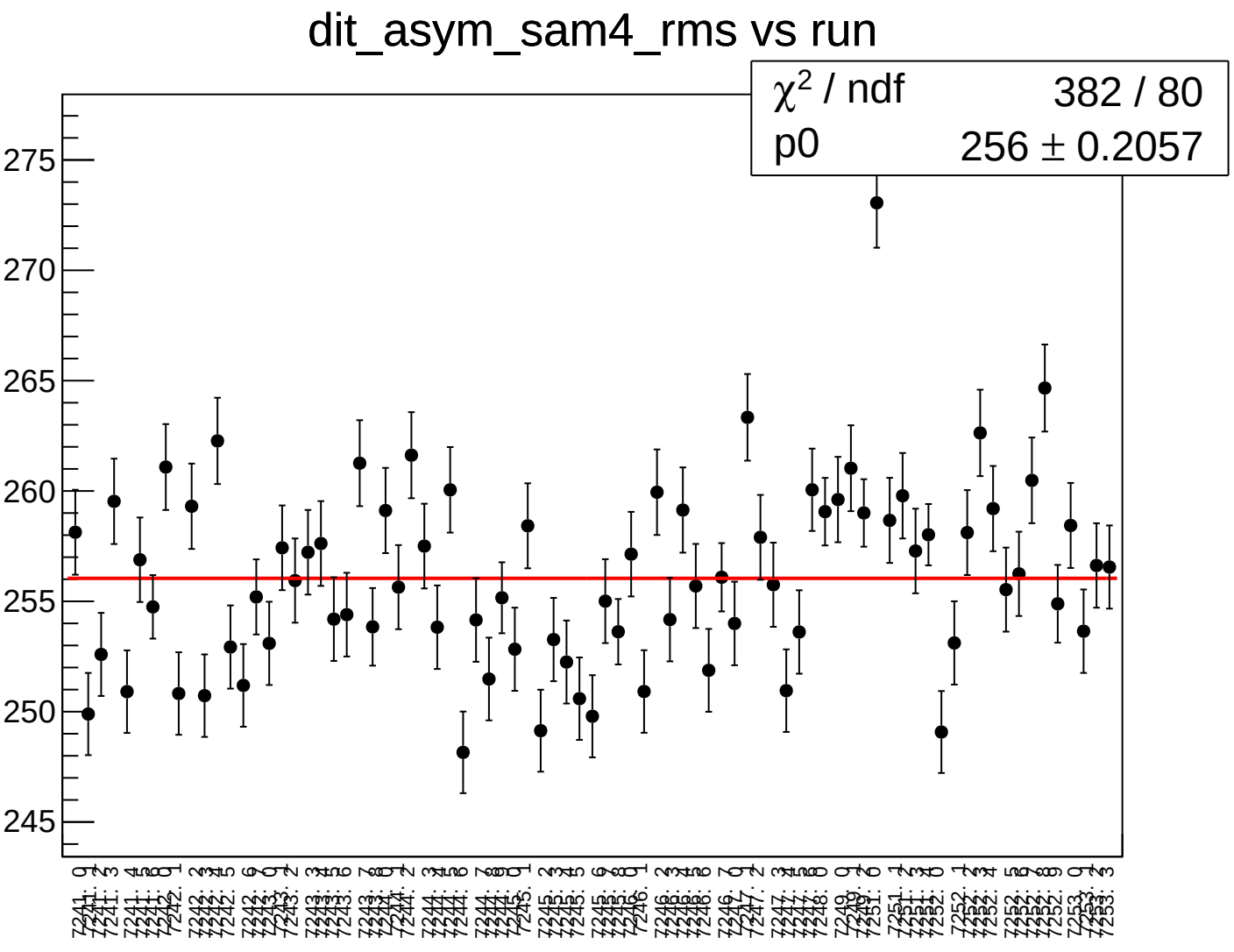

asym_sam4_eigen_cor_correction_mean vs run
χ² / ndf 74.35 / 80
p0 −3271 ± 1840
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean 34.4
Std Dev 0
2
1
0
−1
−2

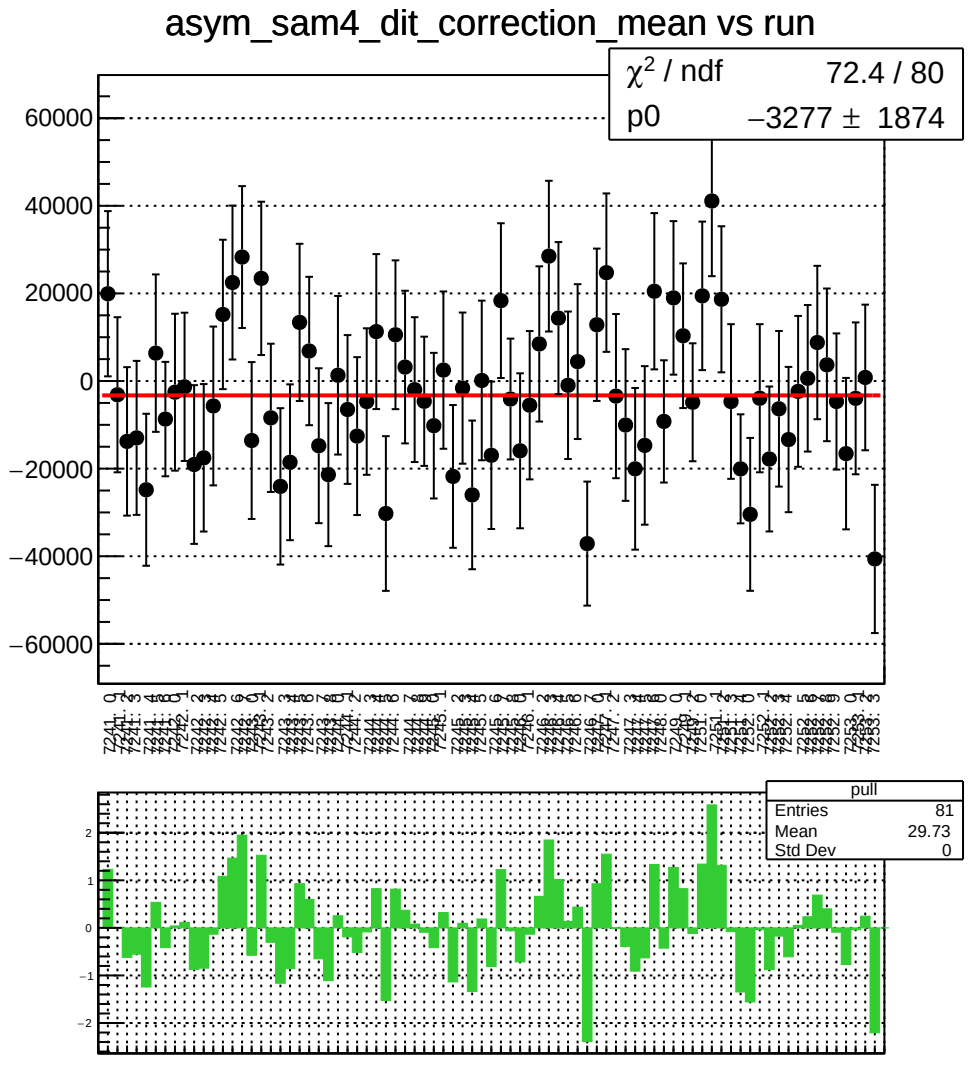

pull1D
Entries 81
Mean 0.02031
Std Dev 0.9579
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

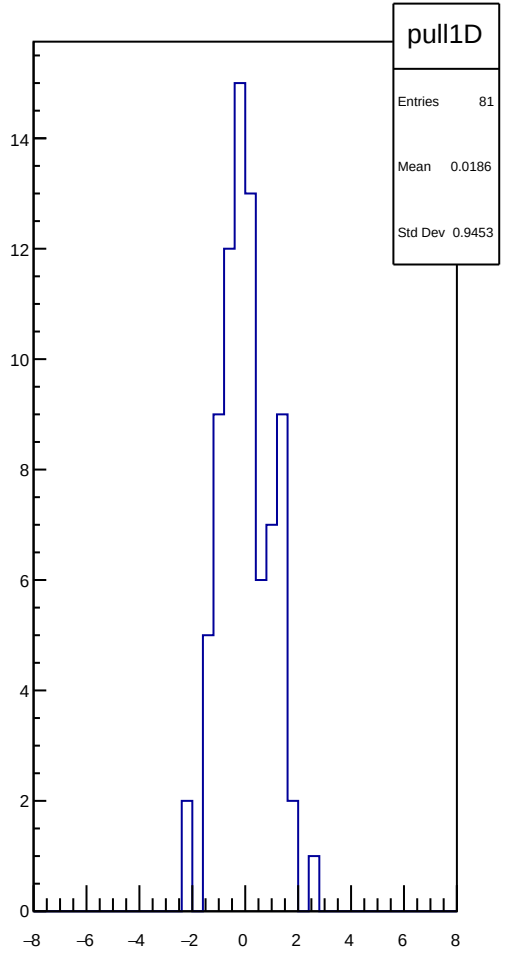

asym_sam4_eigen_cor_correction_rms vs run
χ² / ndf 2190 / 80
p0 1618 ± 1.301
1800
1750
1700
1650
1600
1550
1500

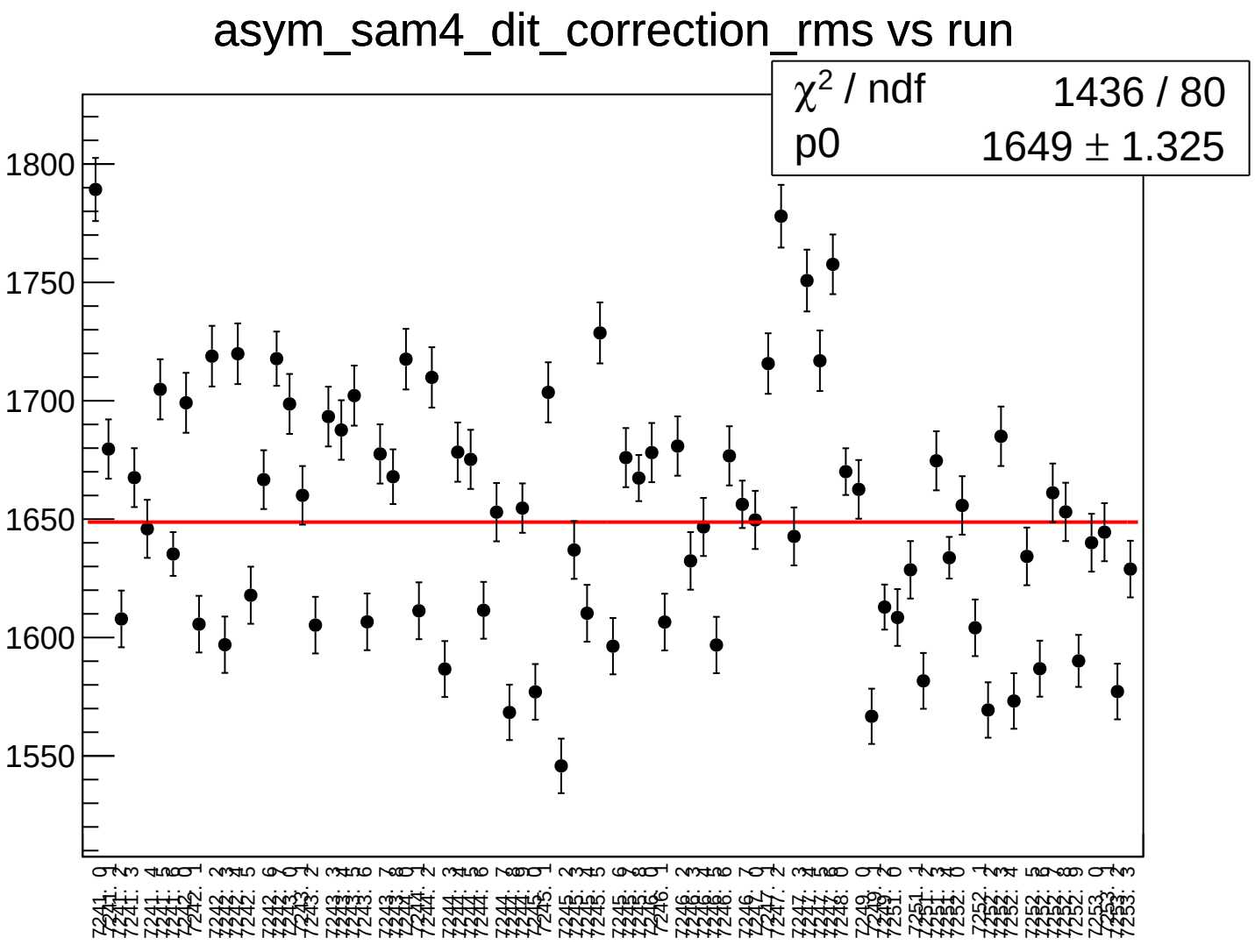

dit_asym_sam4_mean vs run
χ² / ndf 101.6 / 80
p0 712.2 ± 291
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 620.8
Std Dev 0
3
2
1
0
−1
−2

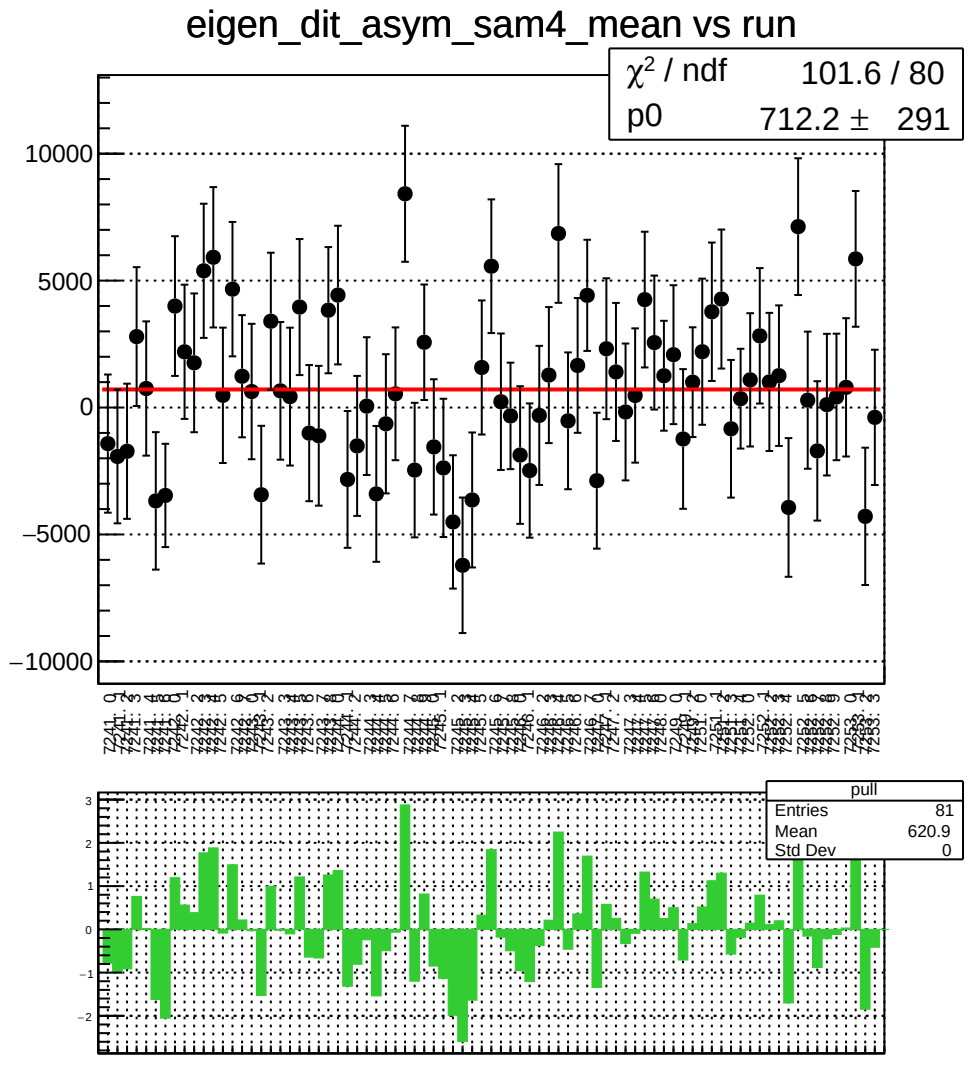

pull1D
Entries 81
Mean 0.002494
Std Dev 1.12
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

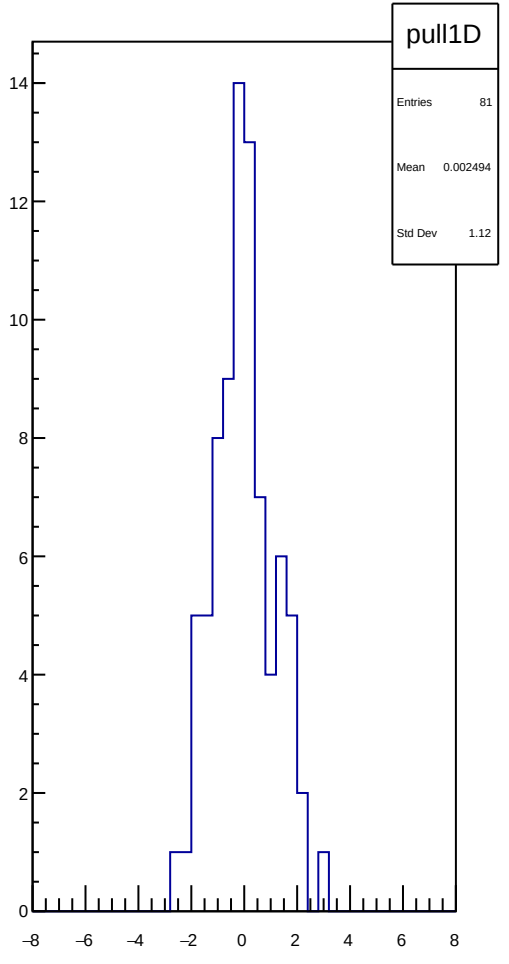

dit_asym_sam4_rms vs run
χ^2 / ndf 382 / 80
p0 256 ± 0.2057
275
270
265
260
255
250
245

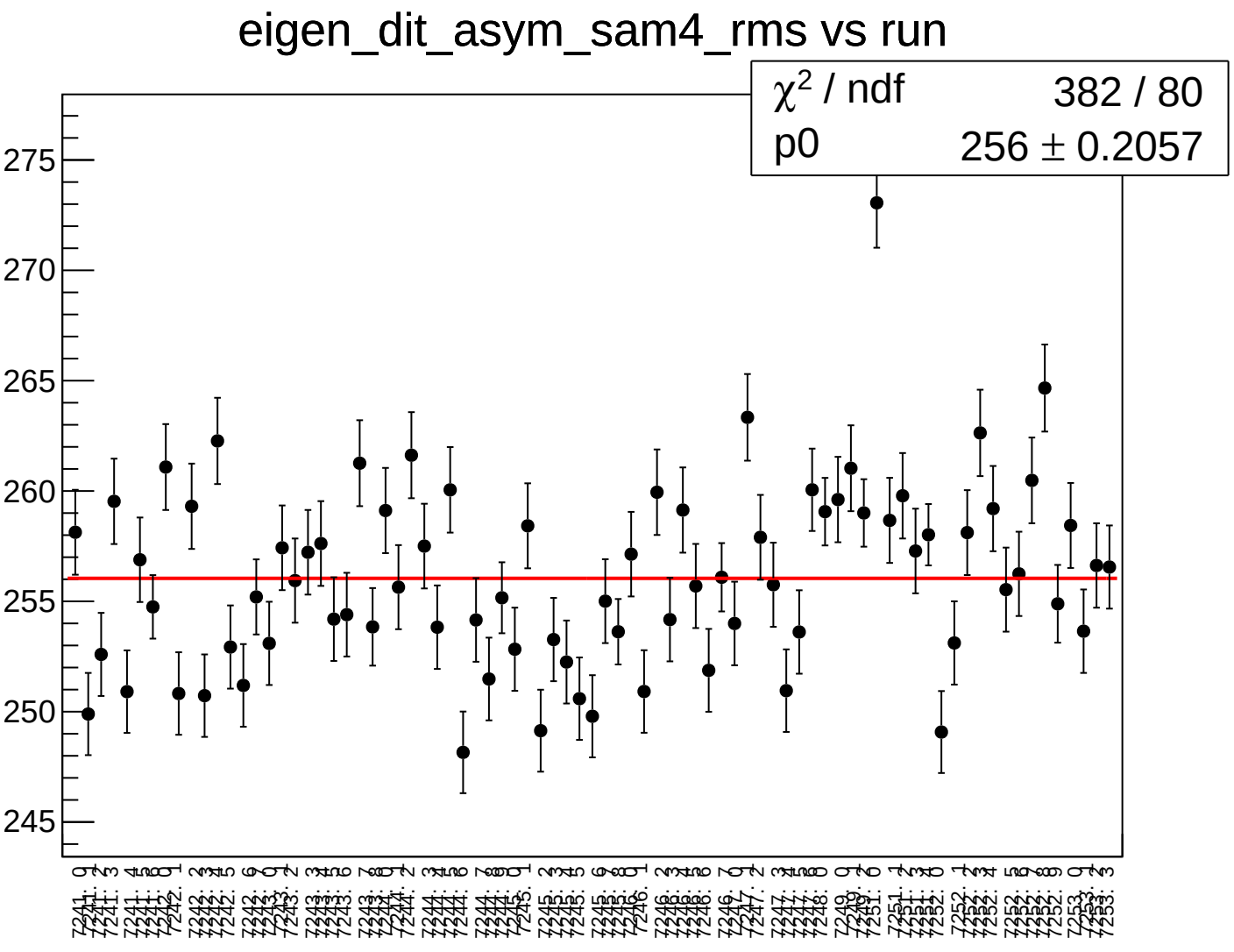

asym_sam4_dit_correction_mean vs run
χ² / ndf 72.4 / 80
p0 −3277 ± 1874
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean 29.73
Std Dev 0
2
1
0
−1
−2

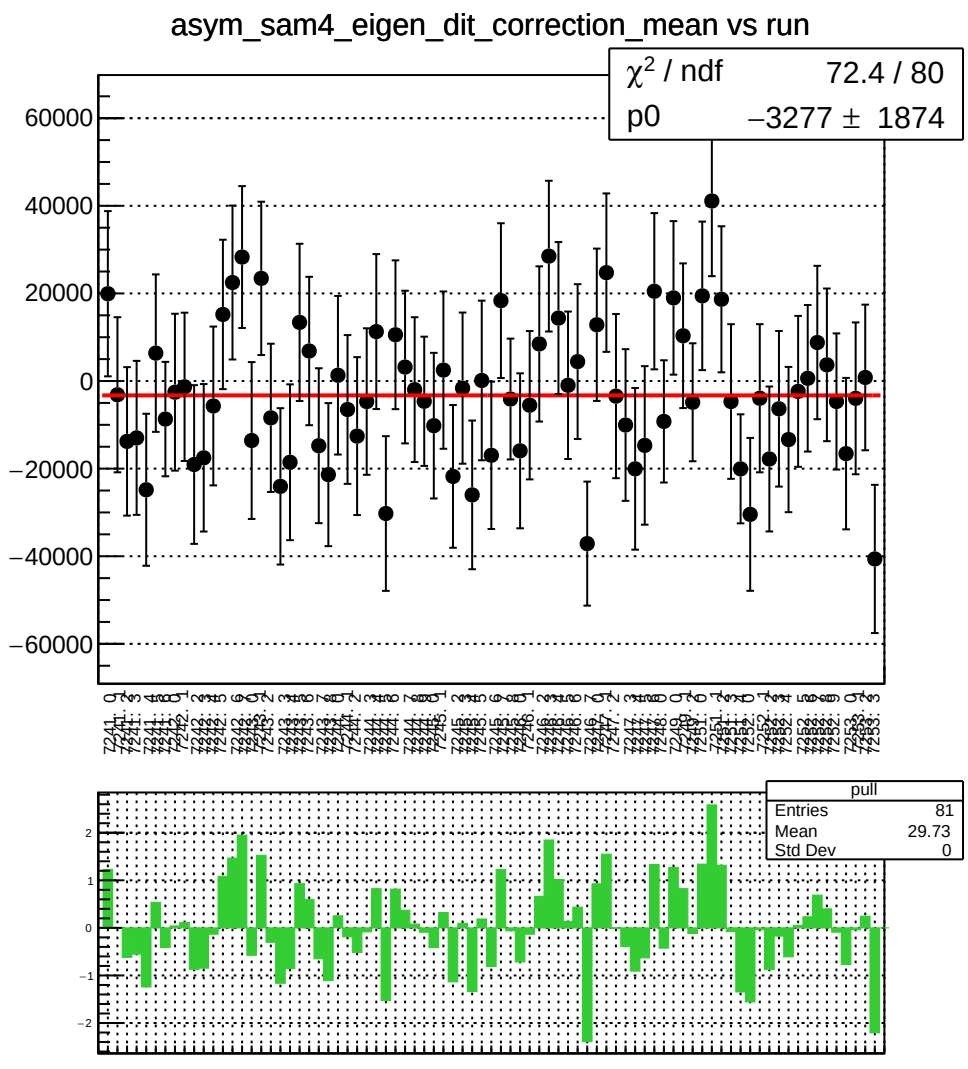

pull1D
Entries 81
Mean 0.0186
Std Dev 0.9453
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

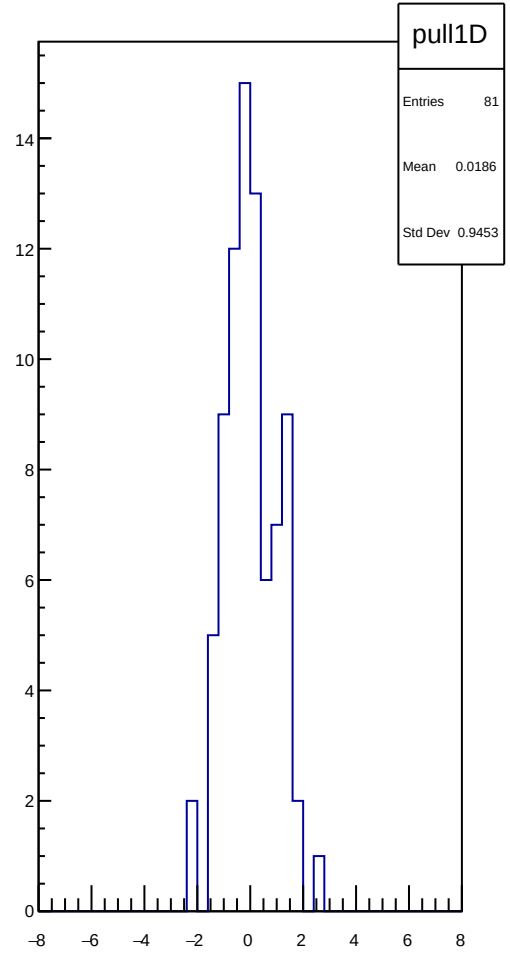

asym_sam4_dit_correction_rms vs run
χ² / ndf 1436 / 80
p0 1649 ± 1.325
1800
1750
1700
1650
1600
1550

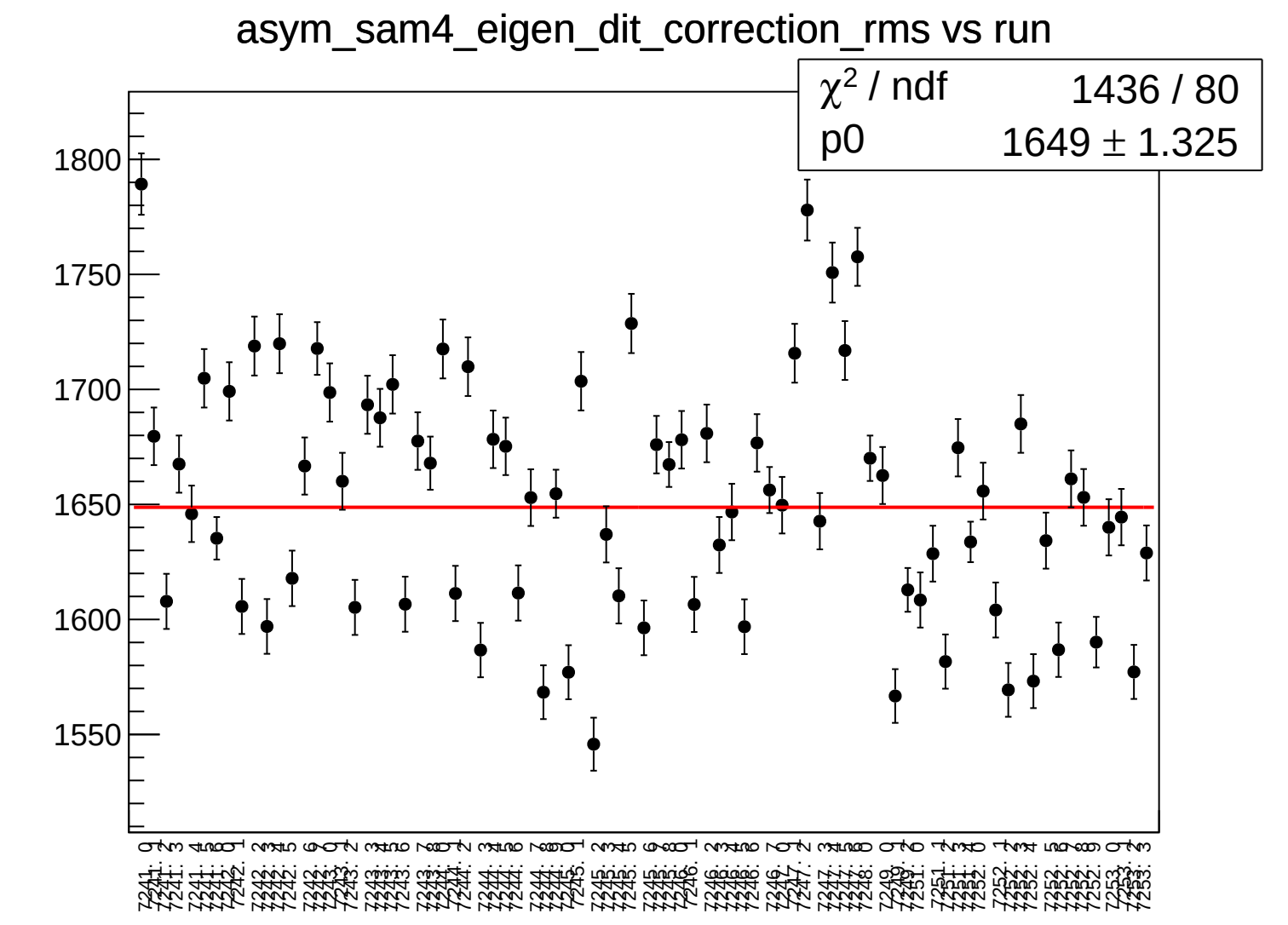

eigen_dit_asym_sam4_mean vs run
χ² / ndf 101.6 / 80
p0 712.2 ± 291
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 620.9
Std Dev 0
3
2
1
0
−1
−2

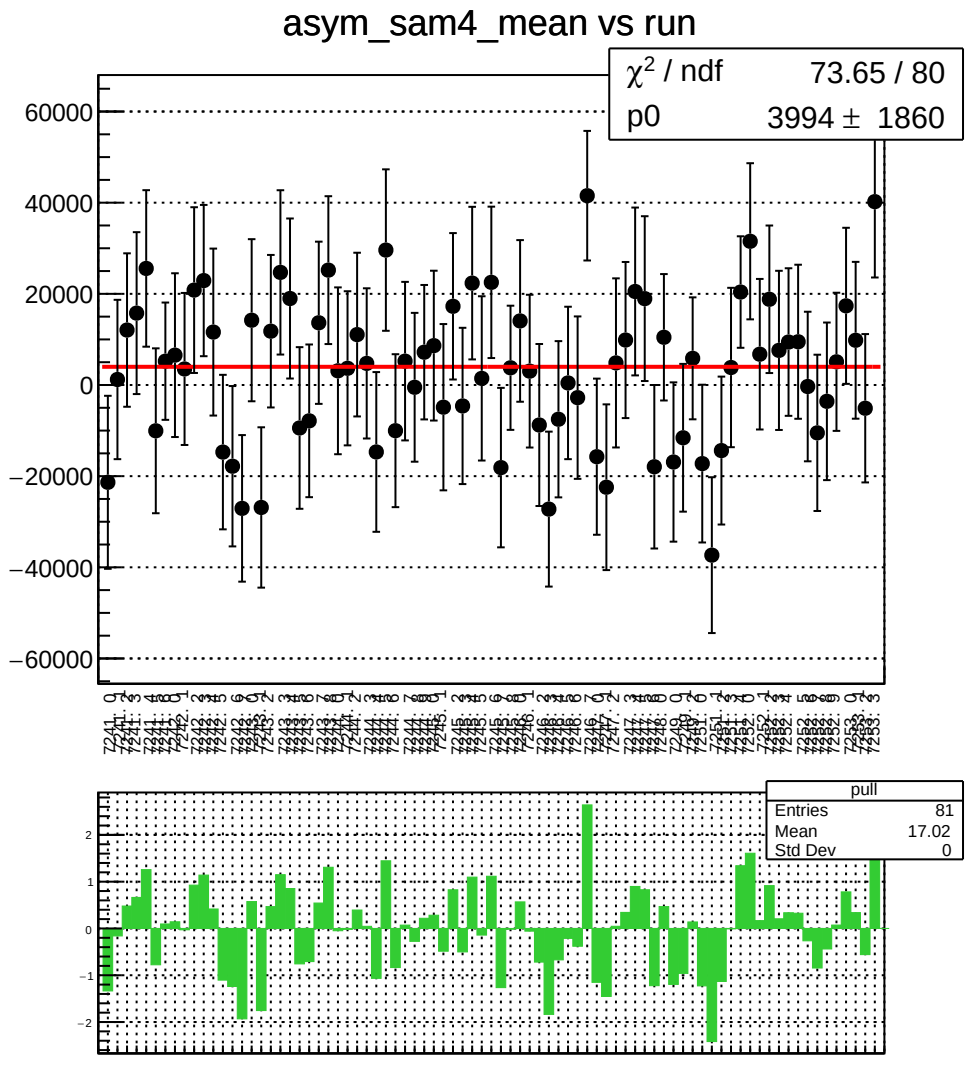

pull1D
Entries 81
Mean 0.002494
Std Dev 1.12
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

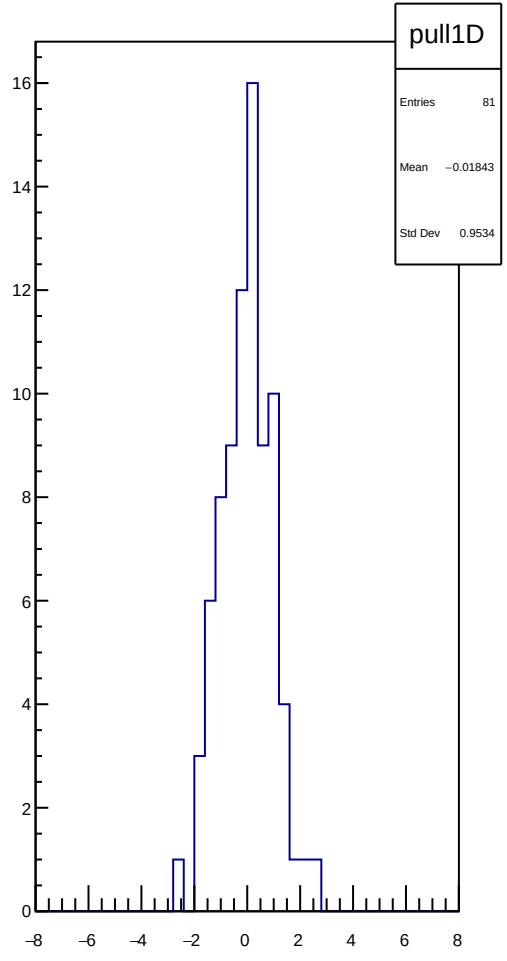

eigen_dit_asym_sam4_rms vs run
χ² / ndf 382 / 80
p0 256 ± 0.2057
275
270
265
260
255
250
245

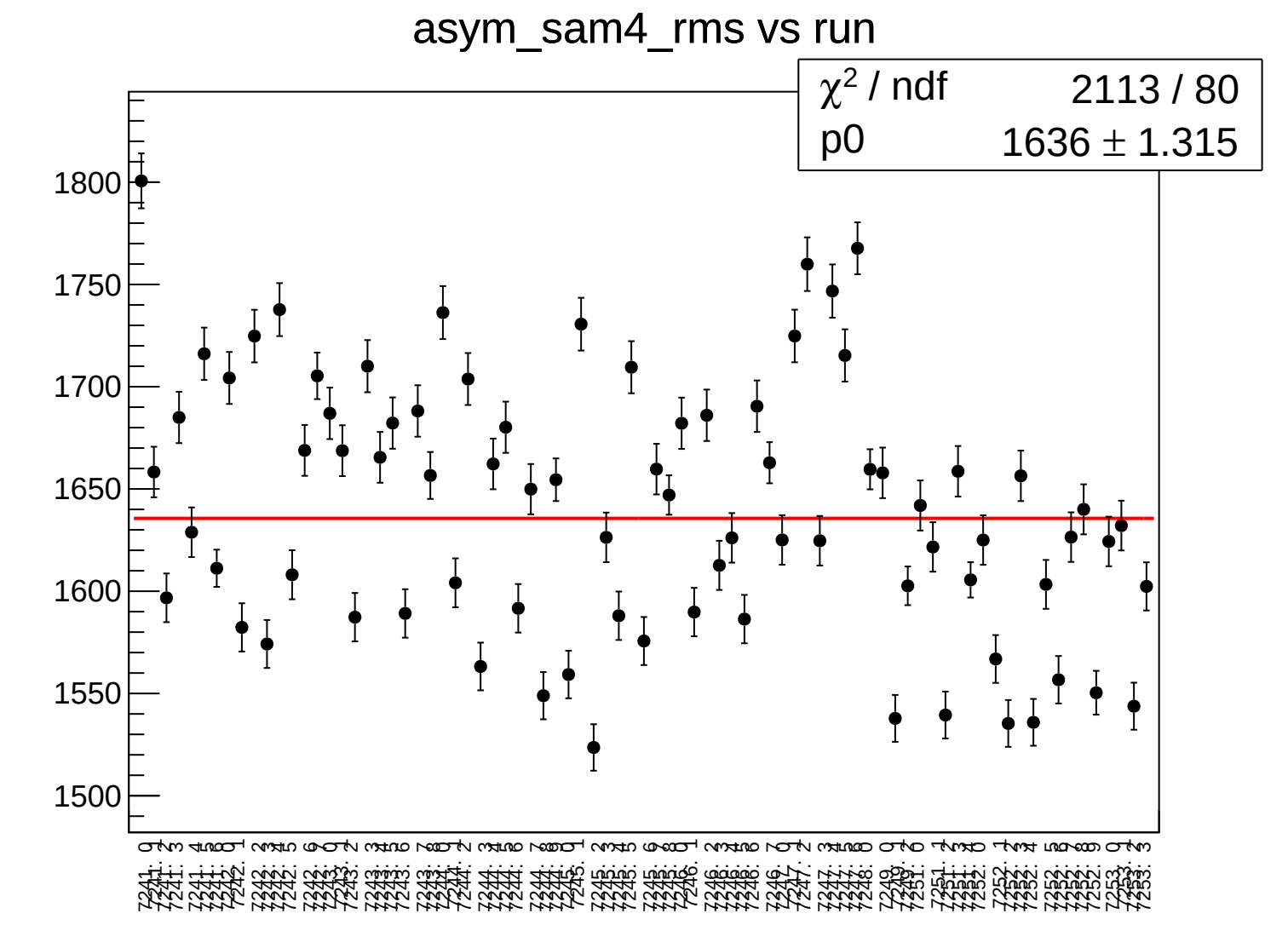

asym_sam4_eigen_dit_correction_mean vs run
χ² / ndf 72.4 / 80
p0 −3277 ± 1874
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean 29.73
Std Dev 0
2
1
0
−1
−2

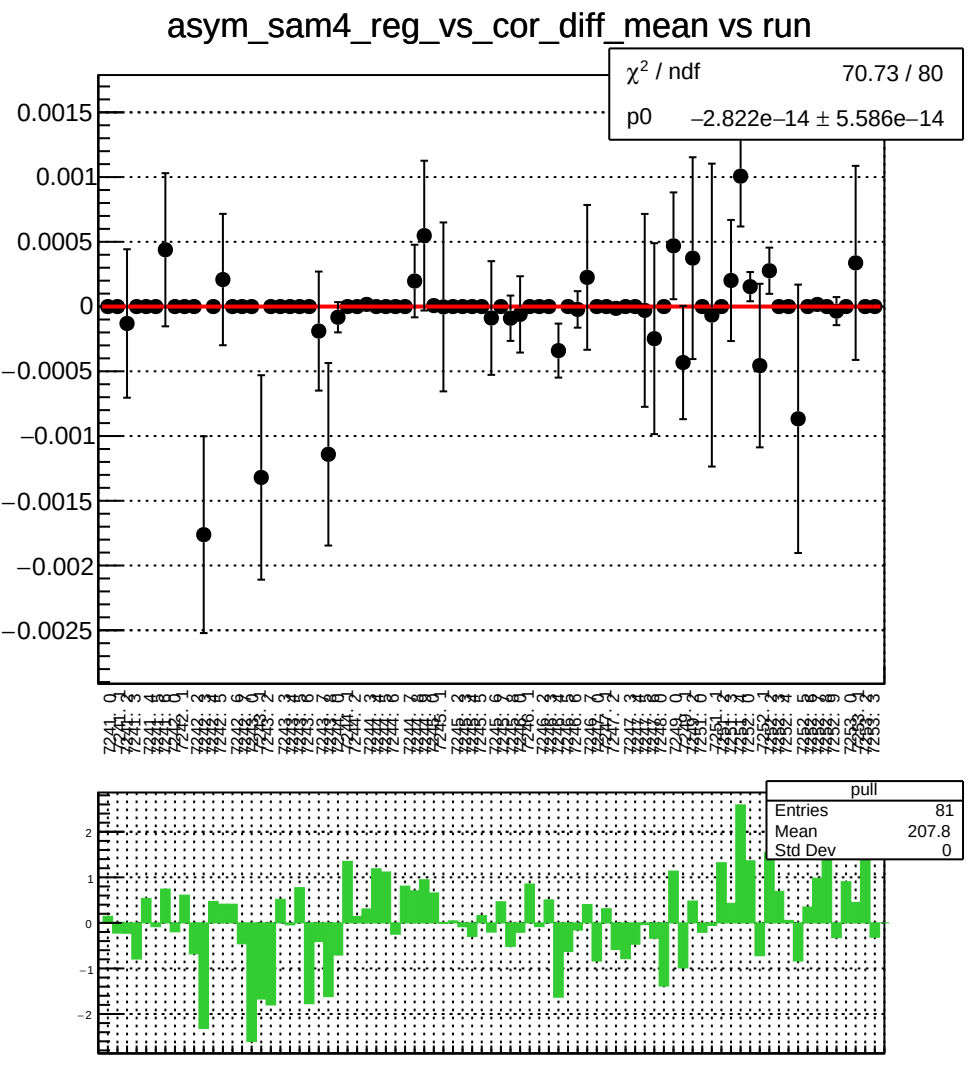

pull1D
Entries 81
Mean 0.0186
Std Dev 0.9453
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

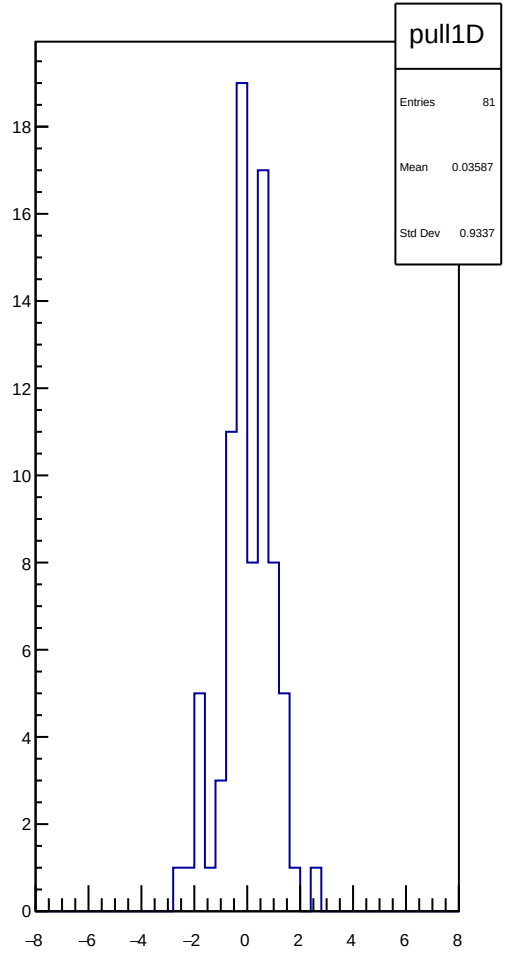

asym_sam4_eigen_dit_correction_rms vs run
χ² / ndf 1436 / 80
p0 1649 ± 1.325
1800
1750
1700
1650
1600
1550

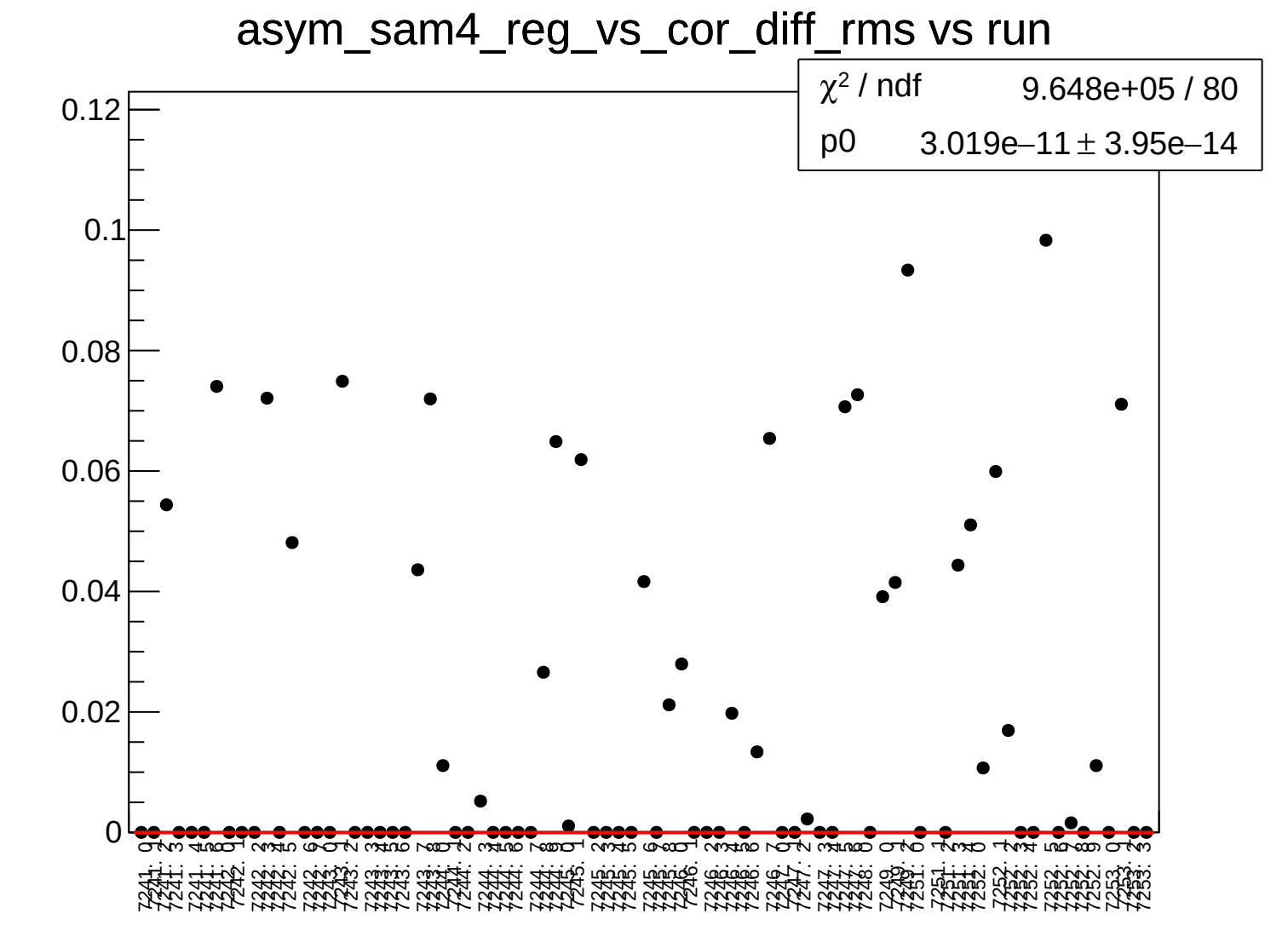

asym_sam4_mean vs run
χ^2 / ndf 73.65 / 80
p0 3994 ± 1860
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean 17.02
Std Dev 0
2
1
0
−1
−2

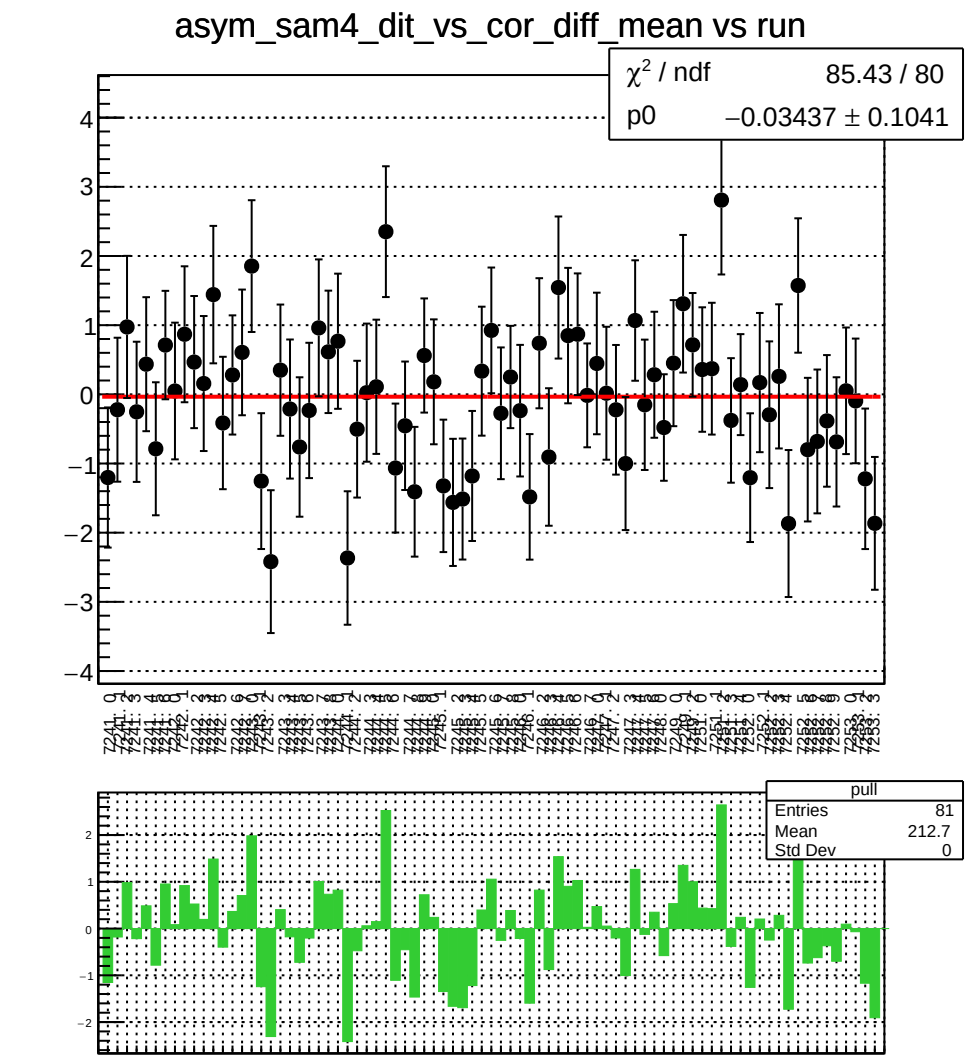

pull1D
Entries 81
Mean −0.01843
Std Dev 0.9534
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

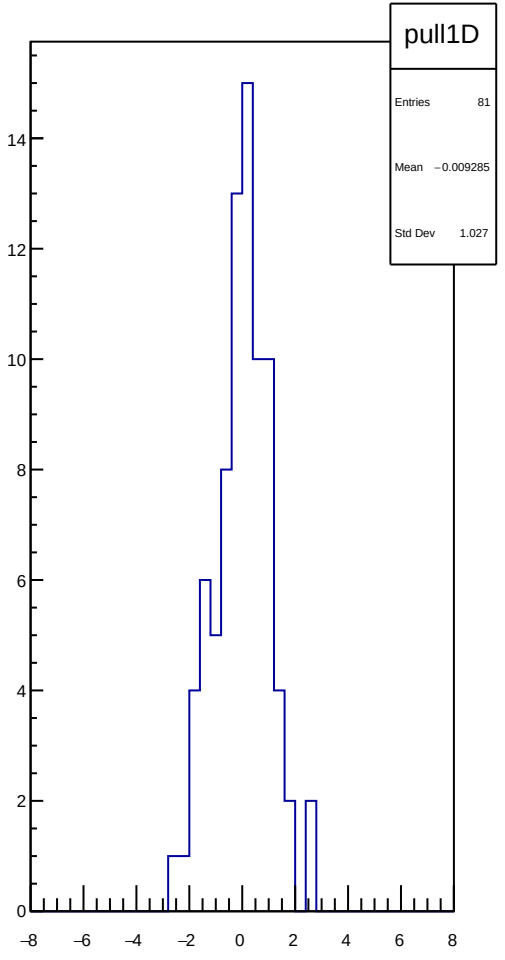

asym_sam4_rms vs run
χ^2 / ndf 2113 / 80
p0 1636 ± 1.315
1800
1750
1700
1650
1600
1550
1500

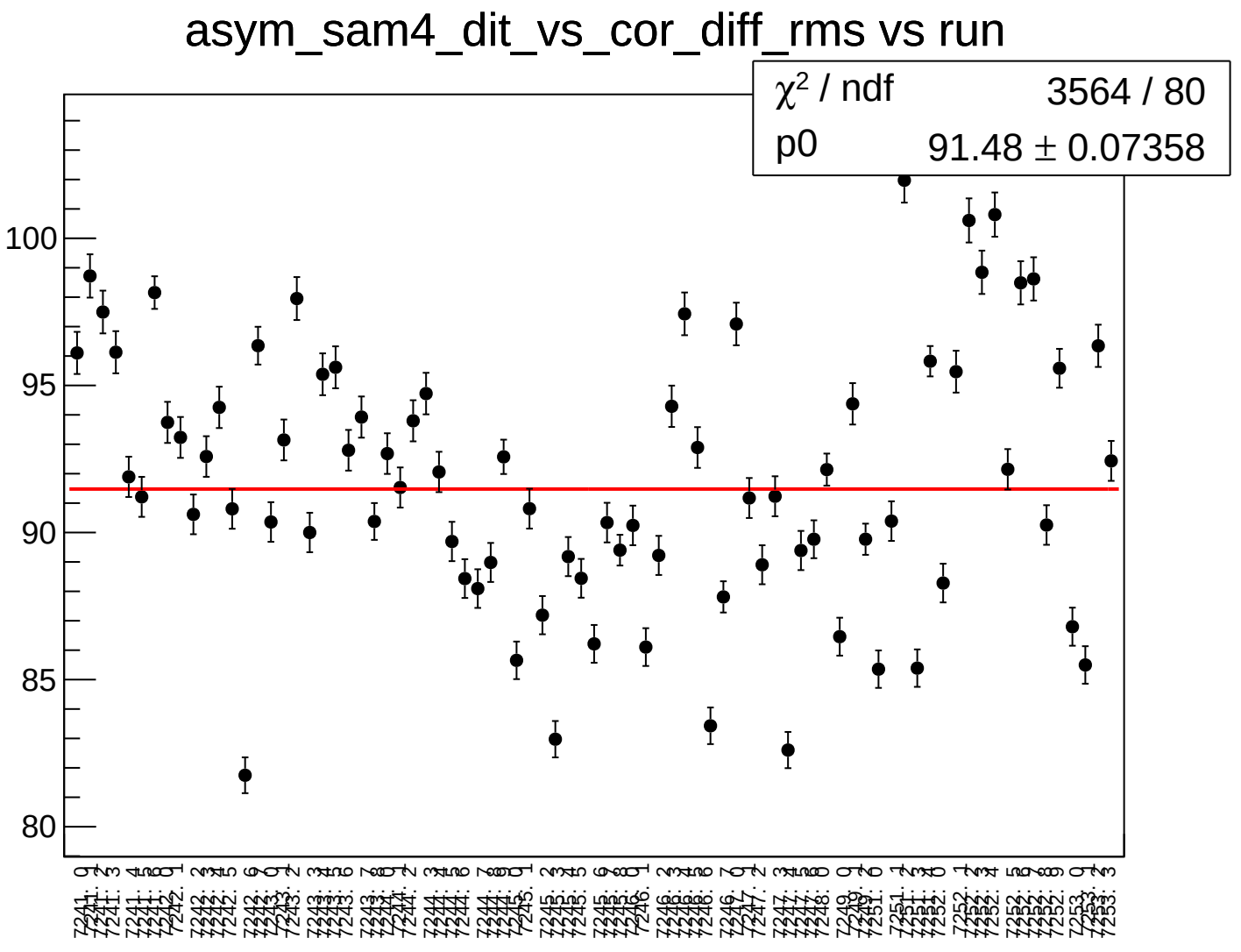

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 70.73 / 80
p0 −2.822e−14 ± 5.586e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
−0.0025
pull
Entries 81
Mean 207.8
Std Dev 0
2
1
0
−1
−2

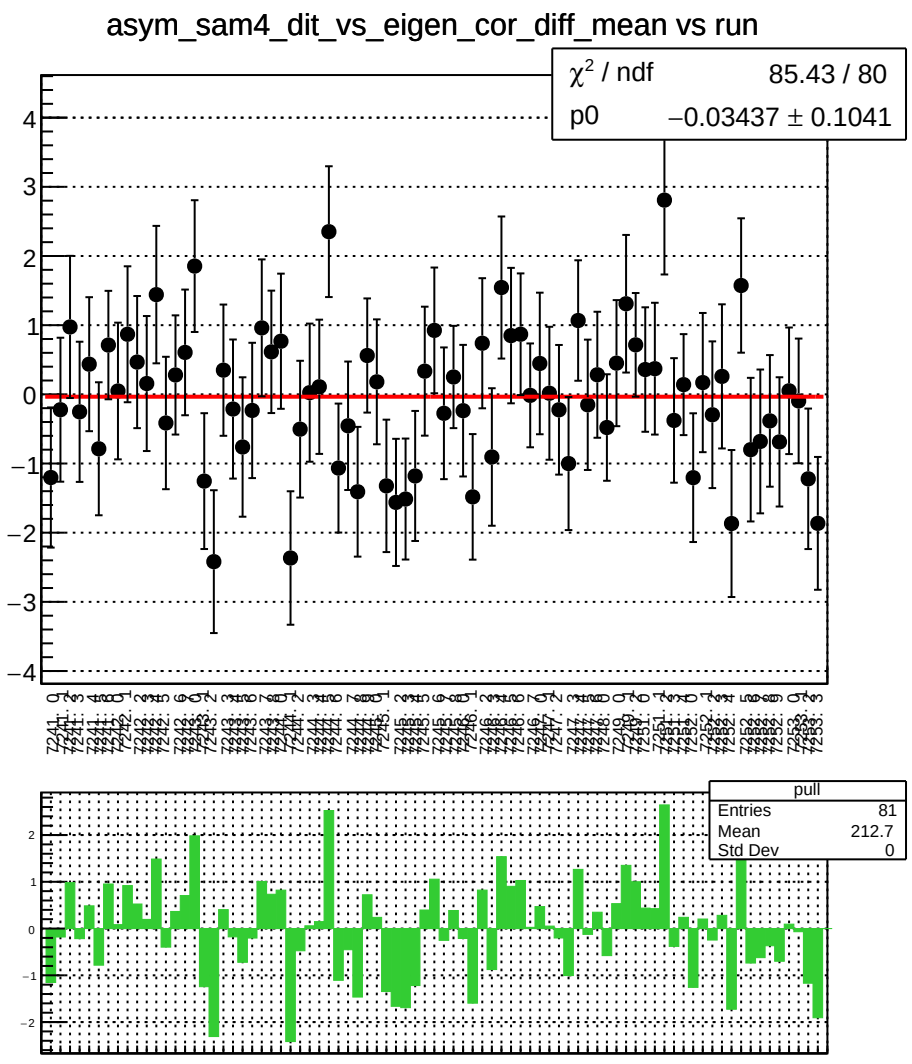

pull1D
Entries 81
Mean 0.03587
Std Dev 0.9337
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

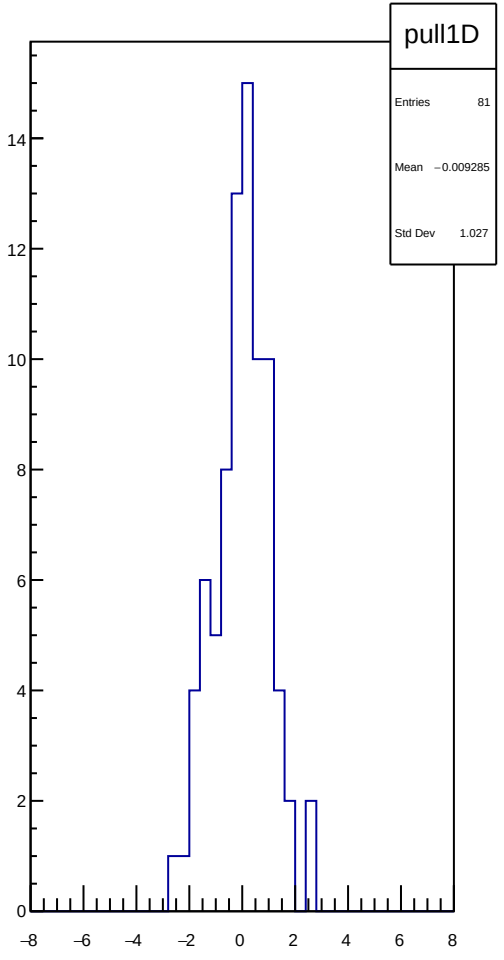

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 9.648e+05 / 80
p0 3.019e−11 ± 3.95e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

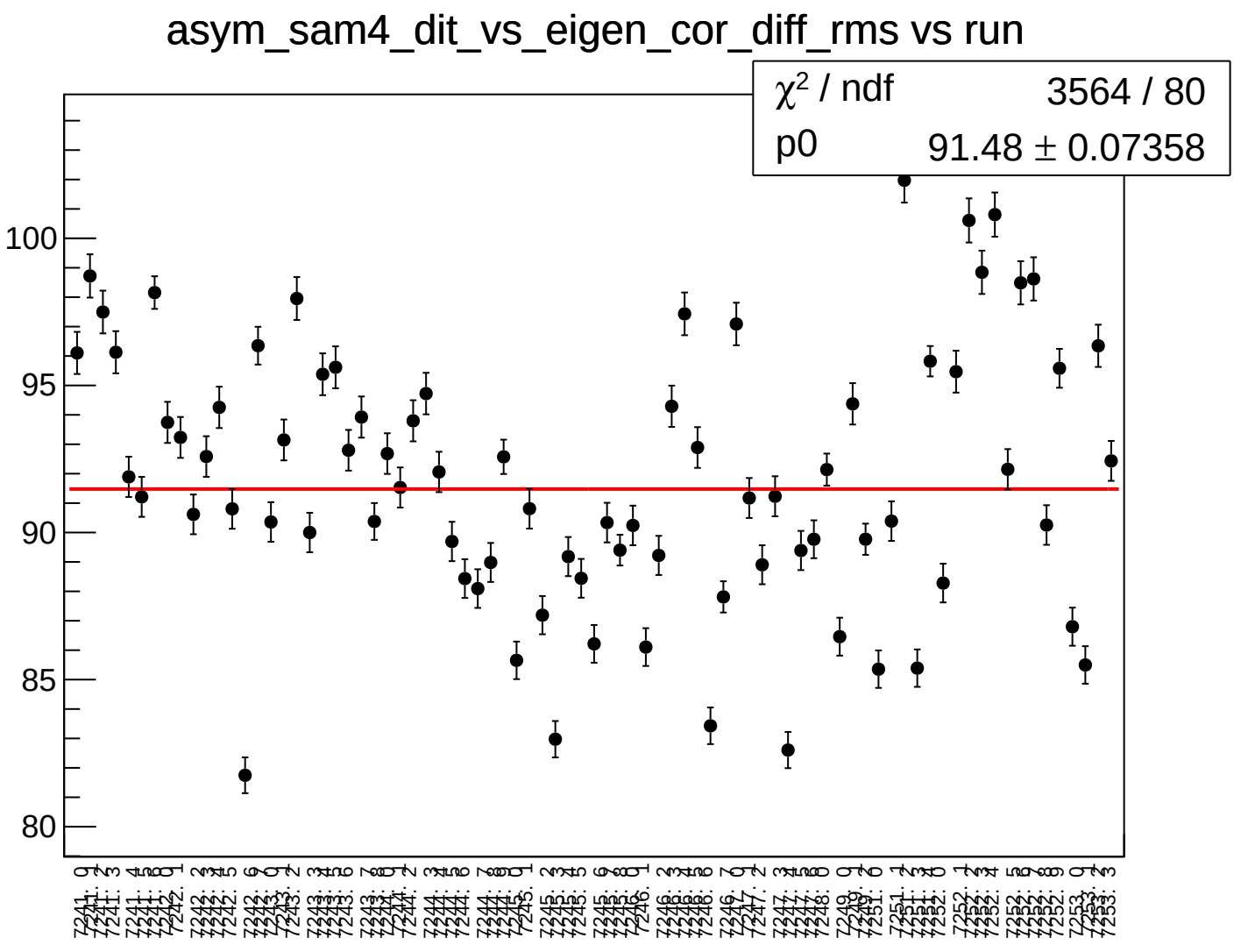

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 85.43 / 80
p0 −0.03437 ± 0.1041
pull
Entries 81
Mean 212.7
Std Dev 0

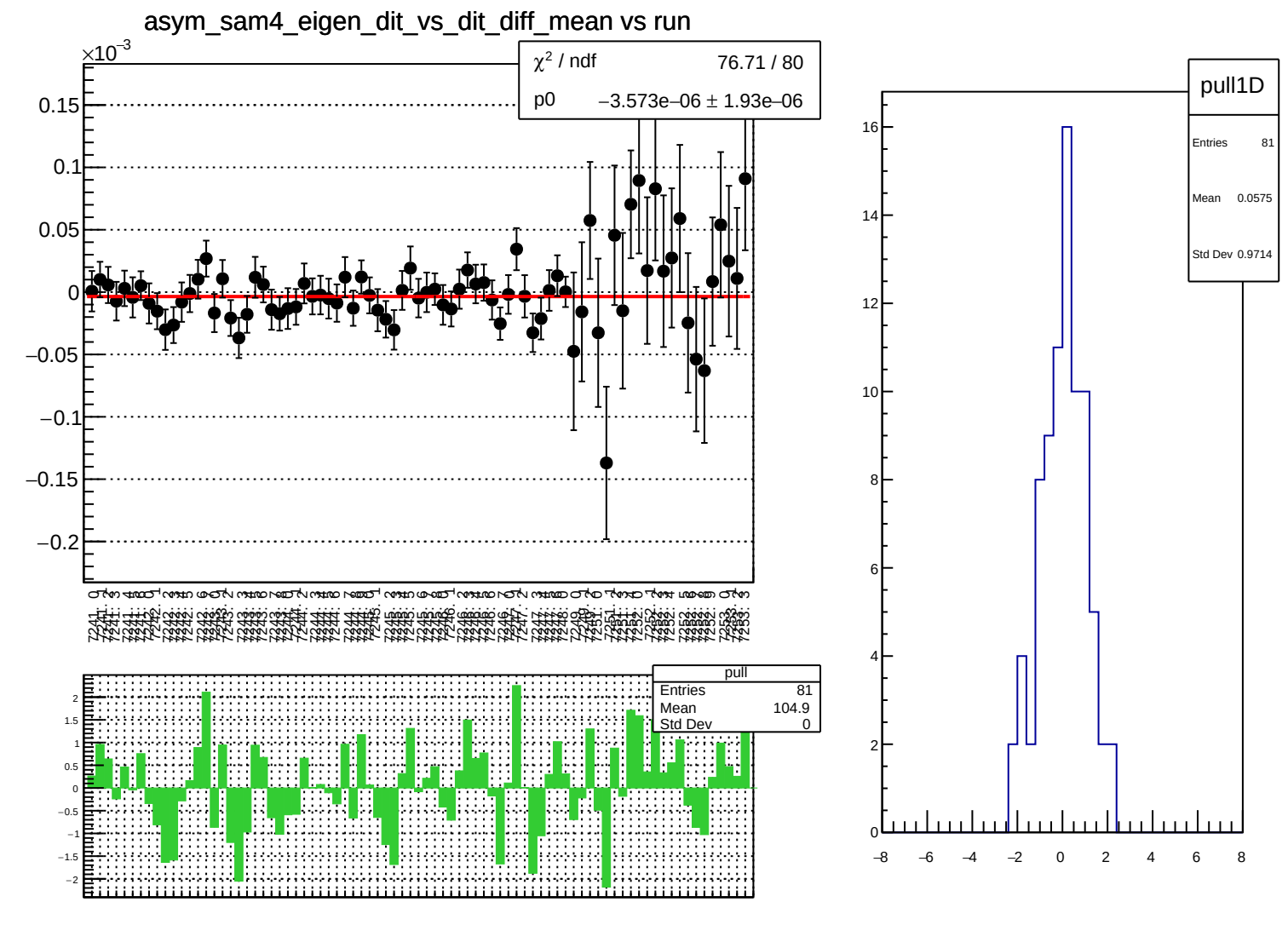

pull1D
Entries 81
Mean −0.009285
Std Dev 1.027

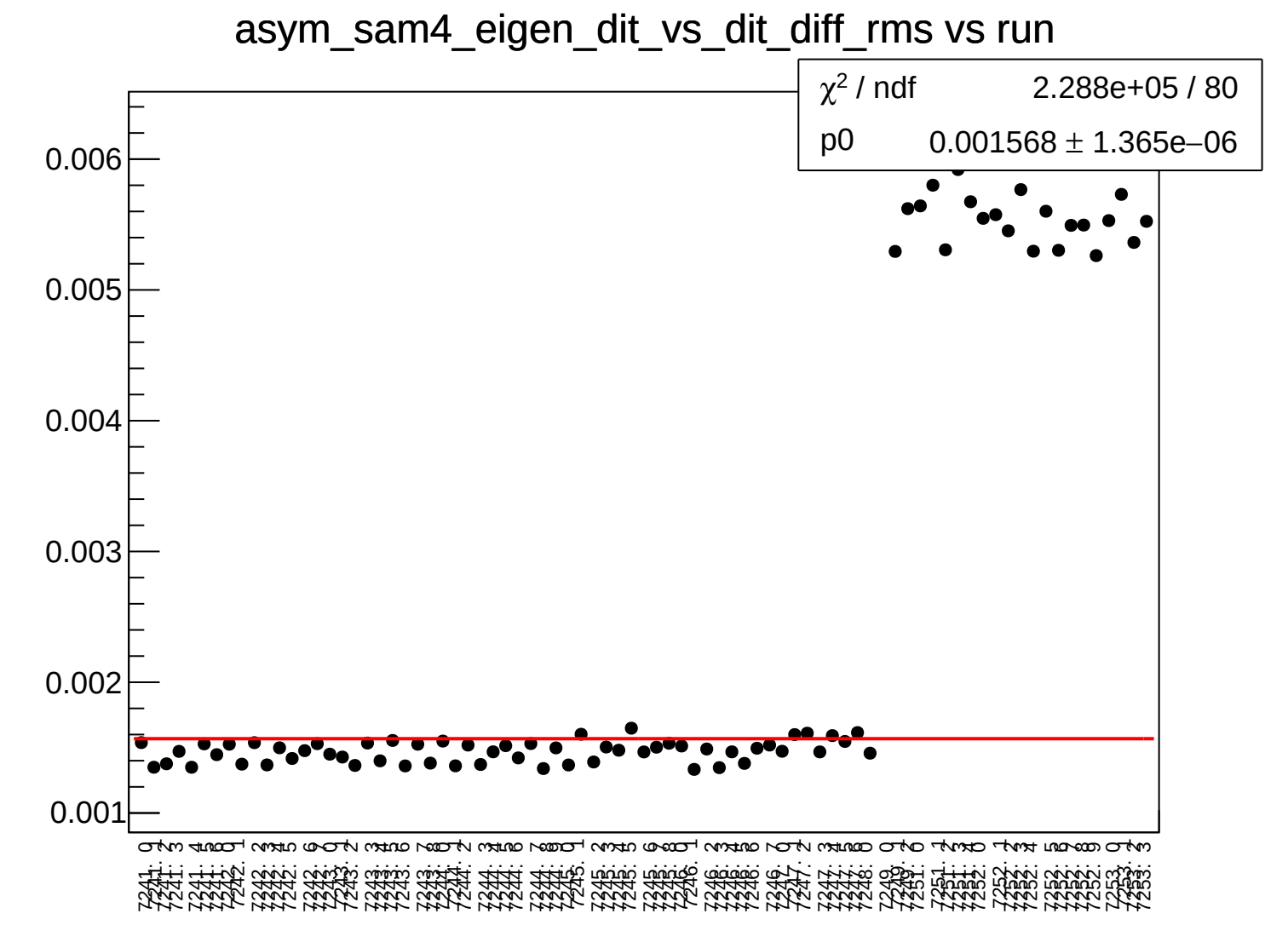

asym_sam4_dit_vs_cor_diff_rms vs run
χ² / ndf 3564 / 80
p0 91.48 ± 0.07358
100
95
90
85
80

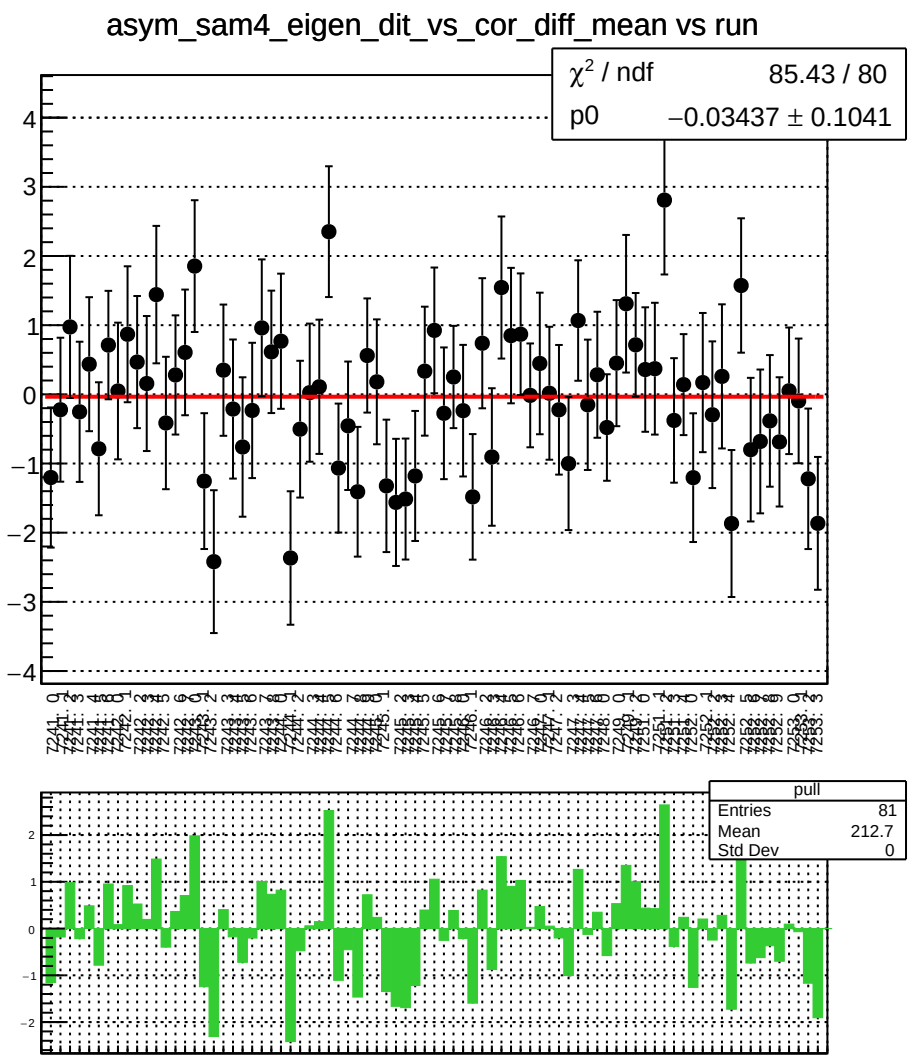

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.43 / 80
p0 −0.03437 ± 0.1041
pull
Entries 81
Mean 212.7
Std Dev 0

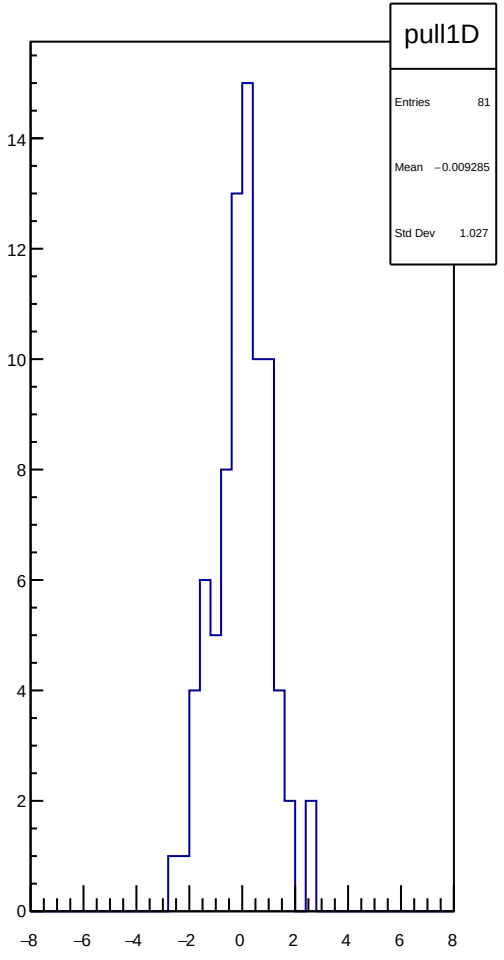

pull1D
Entries 81
Mean −0.009285
Std Dev 1.027

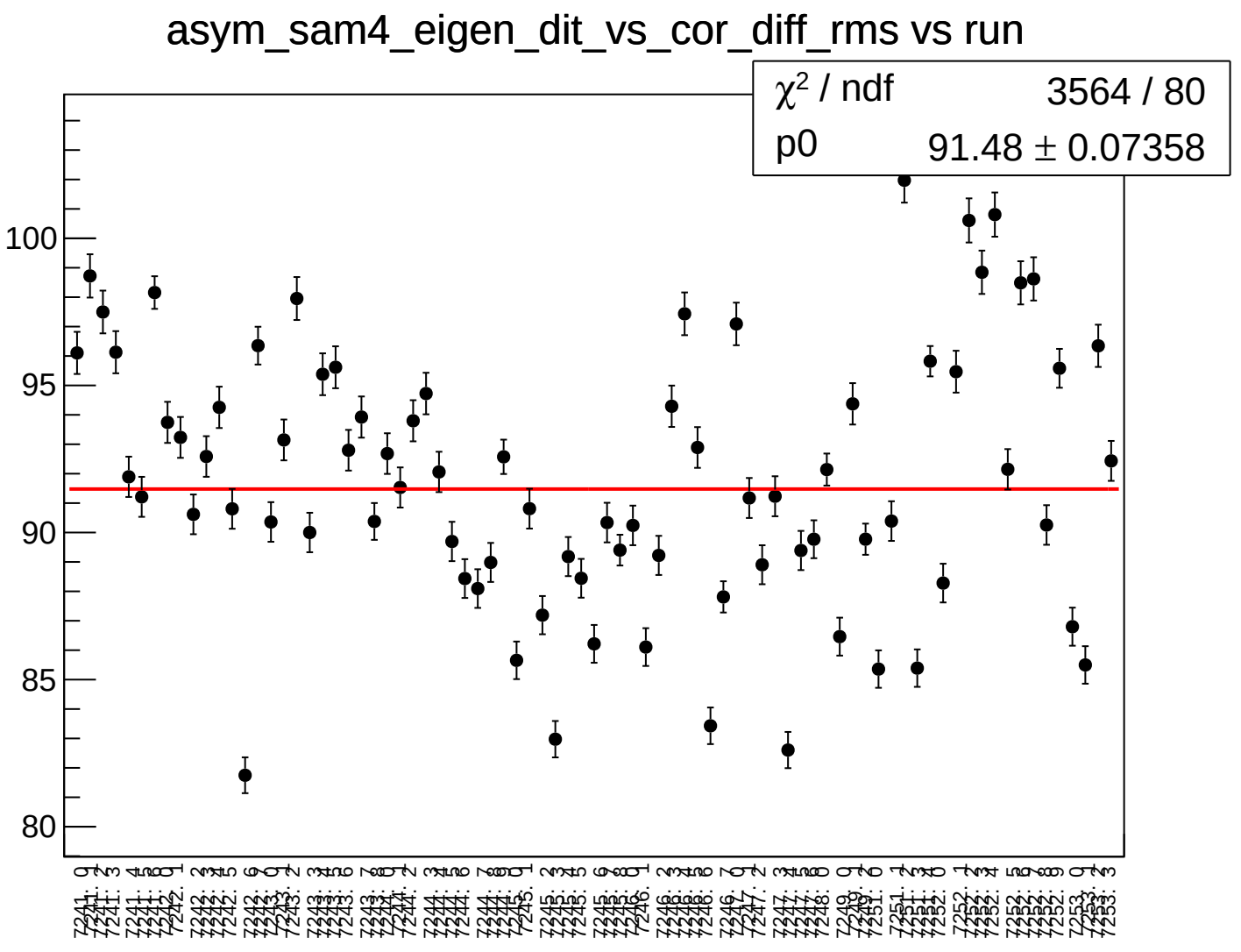

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3564 / 80
p0 91.48 ± 0.07358
100
95
90
85
80

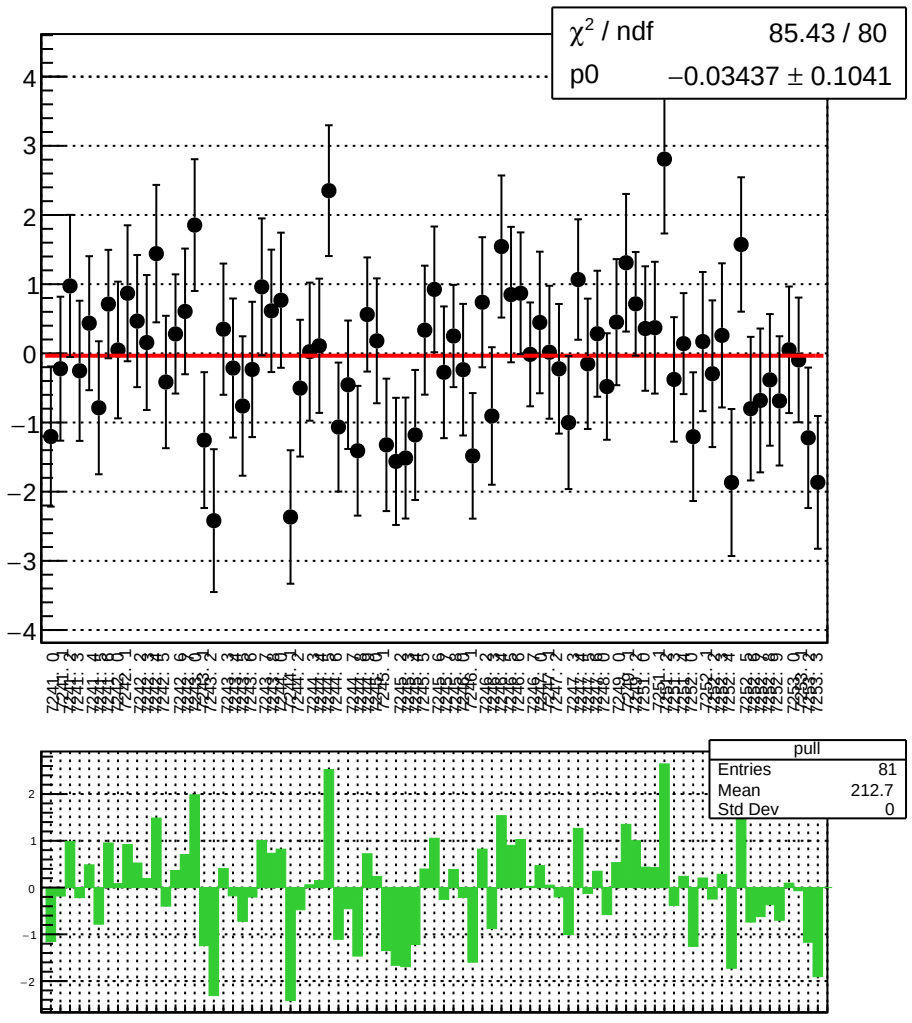

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.71 / 80
p0 −3.573e−06 ± 1.93e−06
pull
Entries 81
Mean 104.9
Std Dev 0
pull1D
Entries 81
Mean 0.0575
Std Dev 0.9714

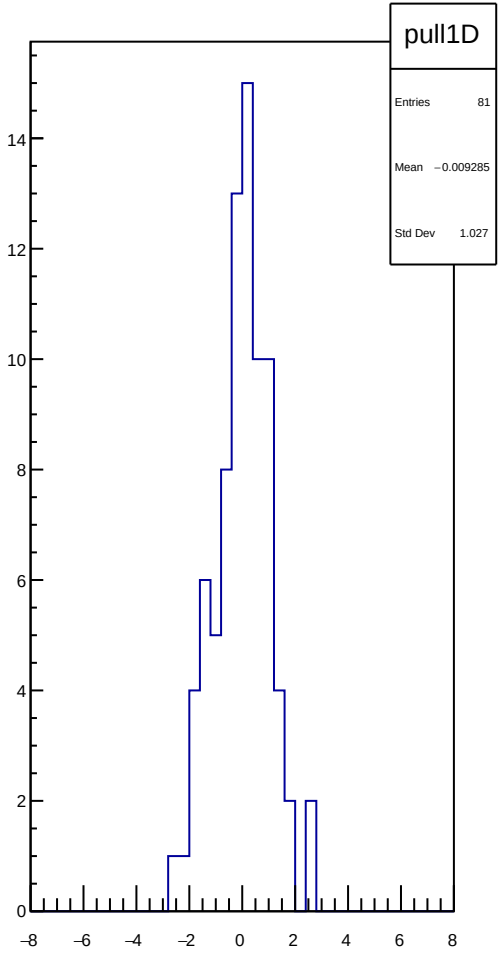

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.288e+05 / 80
p0 0.001568 ± 1.365e−06
0.006
0.005
0.004
0.003
0.002
0.001

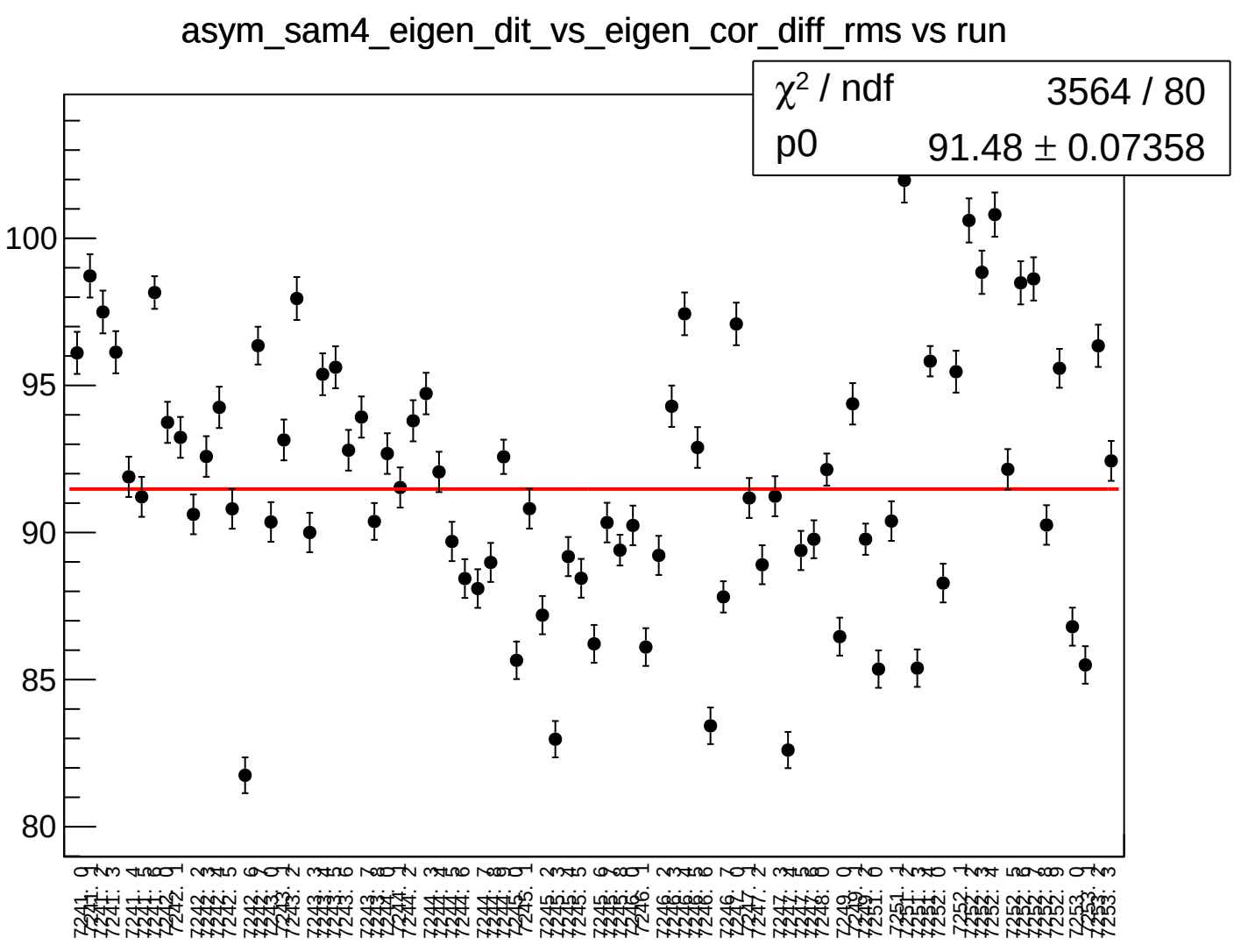

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.43 / 80
p0 −0.03437 ± 0.1041
pull
Entries 81
Mean 212.7
Std Dev 0

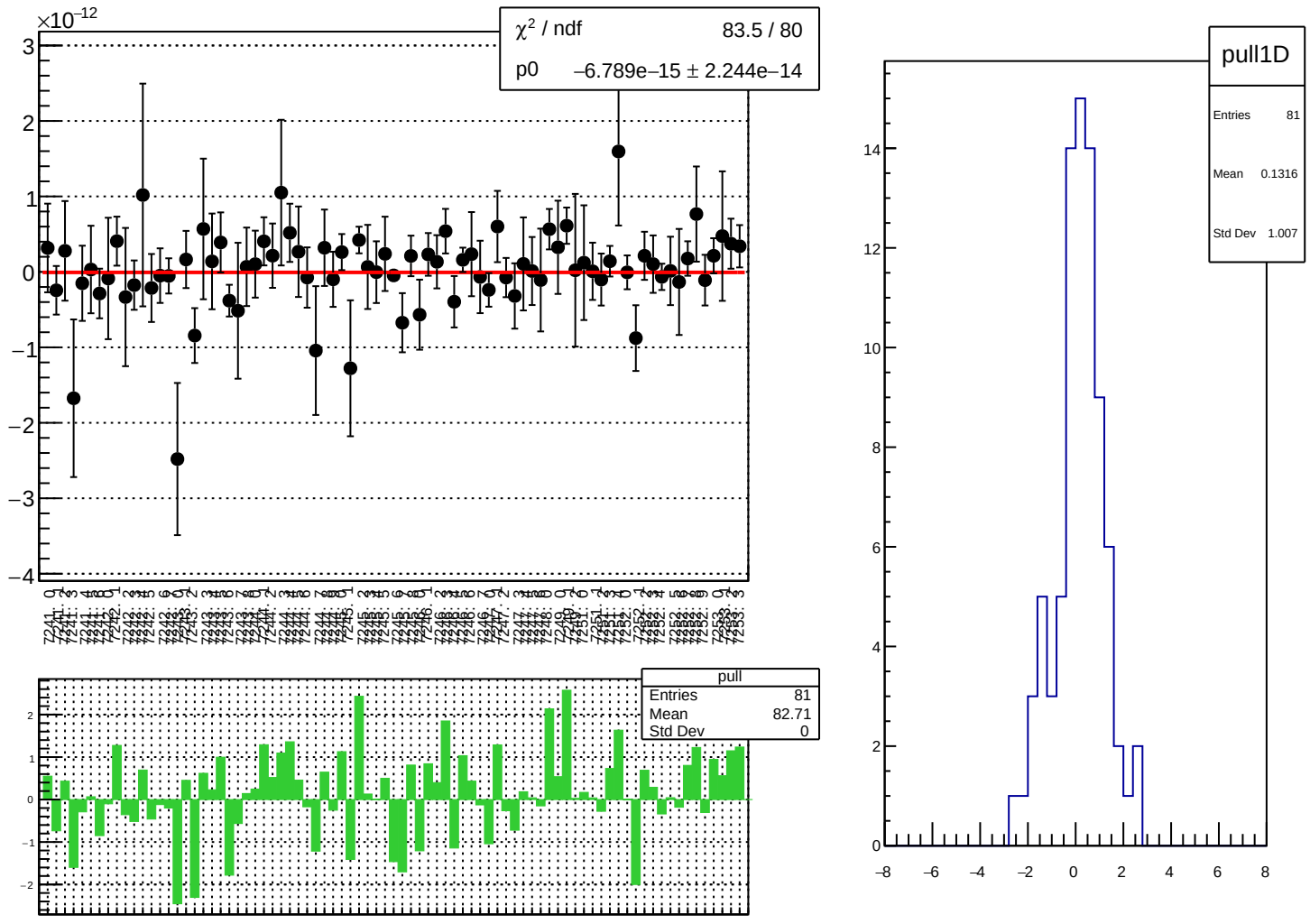

pull1D
Entries 81
Mean −0.009285
Std Dev 1.027

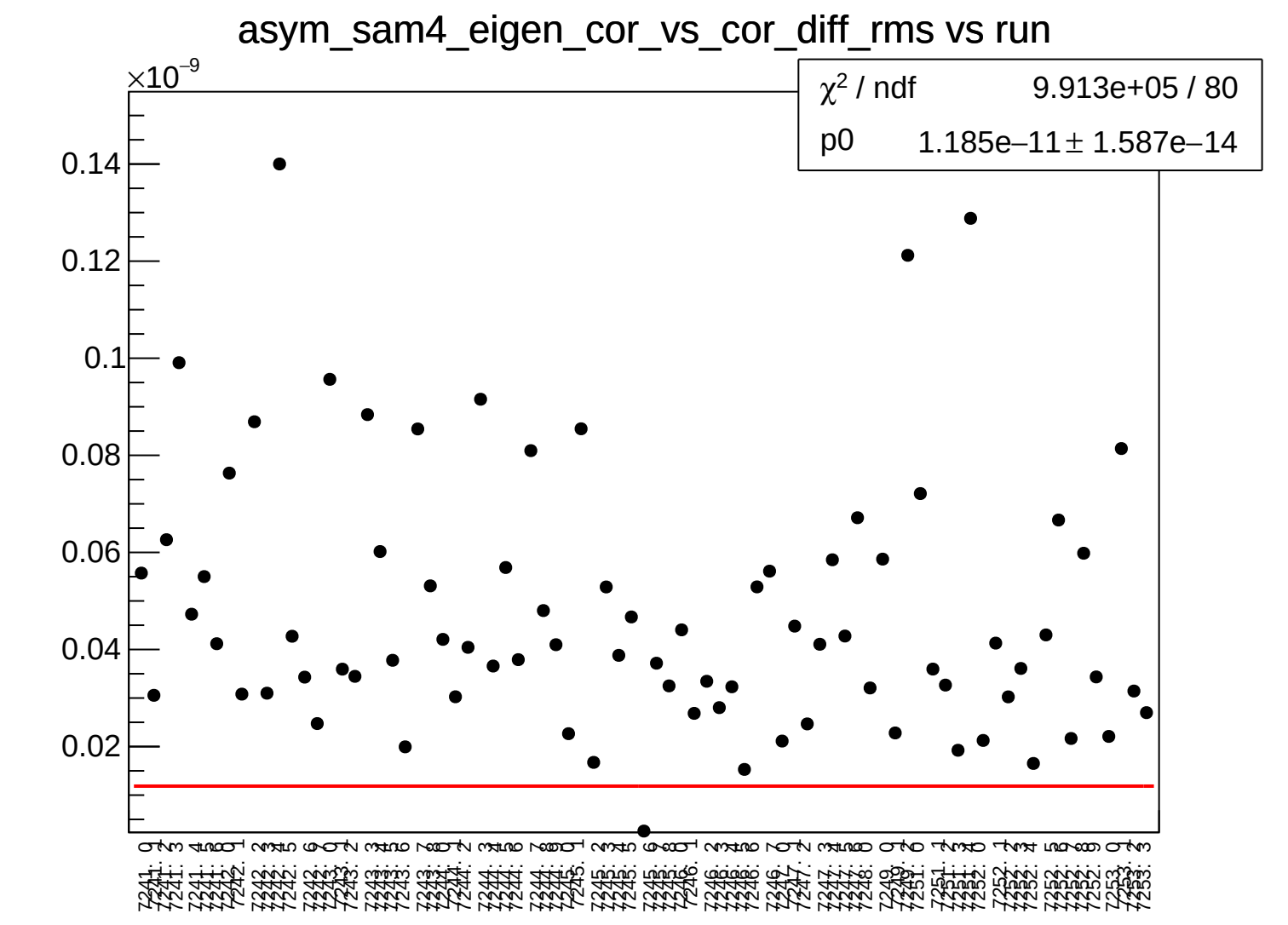

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3564 / 80
p0 91.48 ± 0.07358
100
95
90
85
80

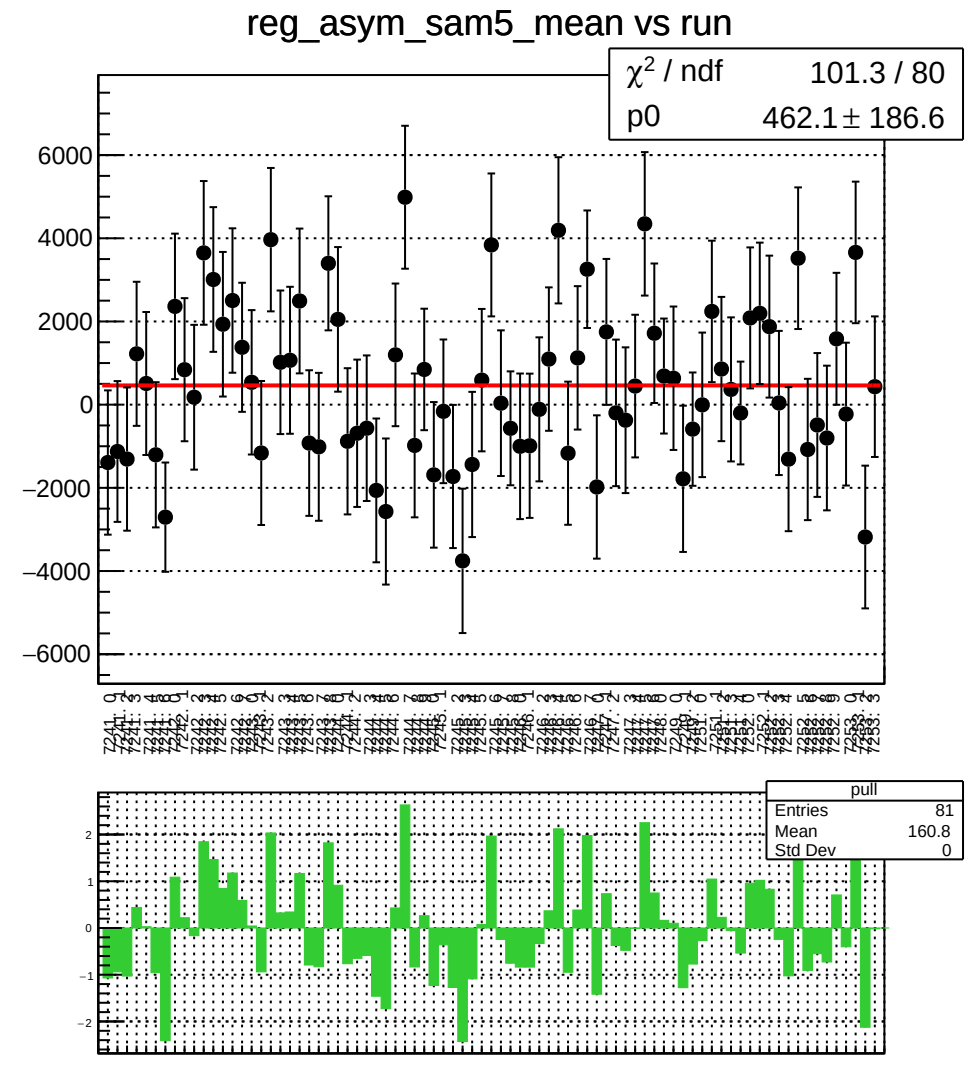

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.43 / 80
p0 −0.03437 ± 0.1041
pull
Entries 81
Mean 212.7
Std Dev 0

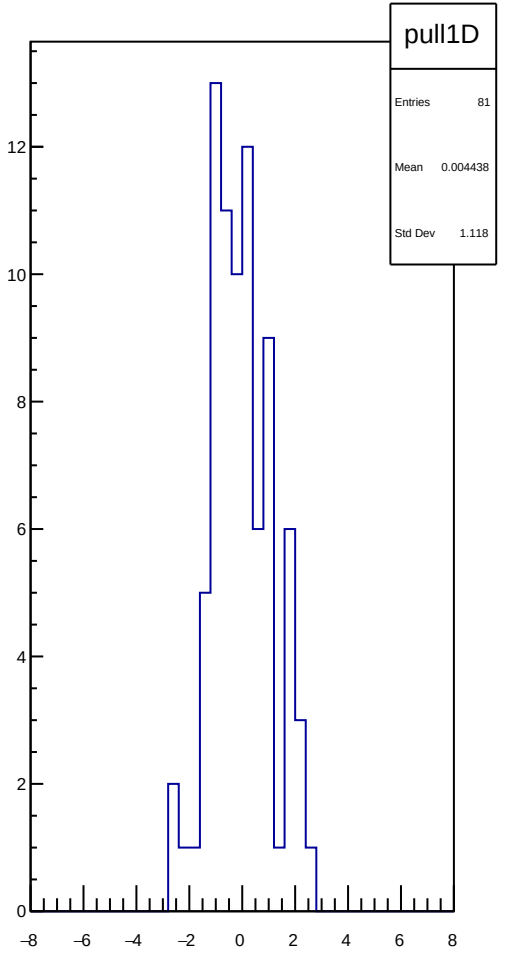

pull1D
Entries 81
Mean −0.009285
Std Dev 1.027

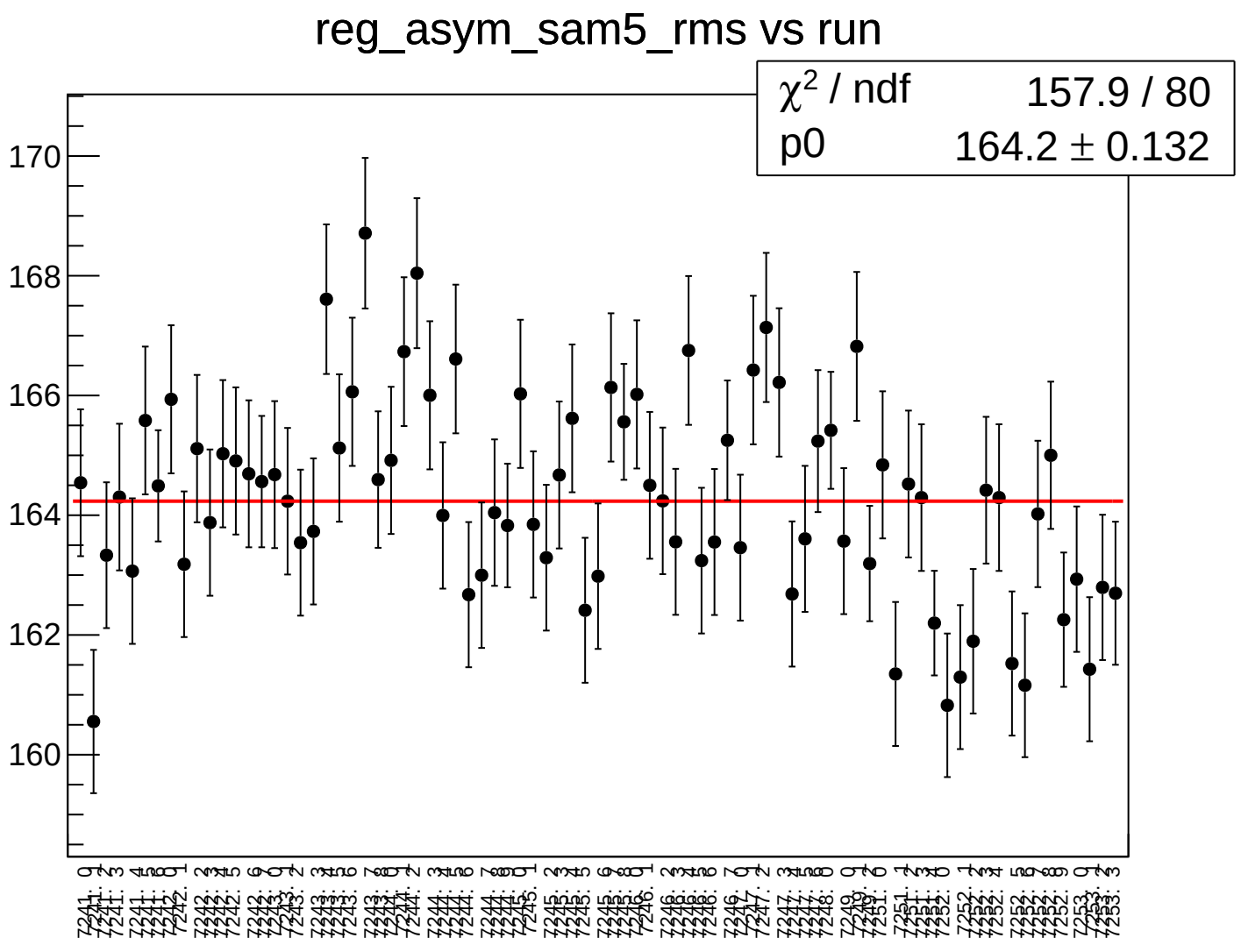

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3564 / 80
p0 91.48 ± 0.07358
100
95
90
85
80

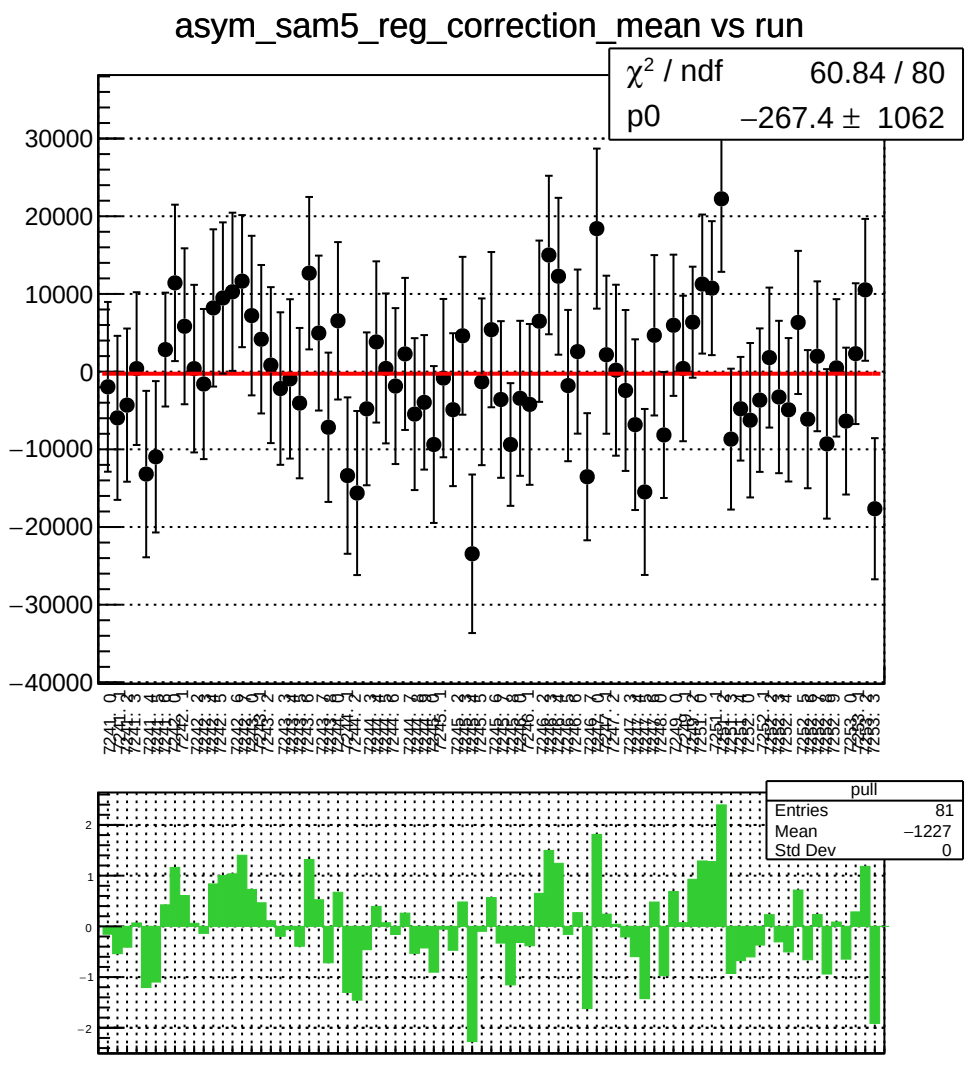

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.5 / 80
p0 −6.789e−15 ± 2.244e−14
pull
Entries 81
Mean 82.71
Std Dev 0
pull1D
Entries 81
Mean 0.1316
Std Dev 1.007

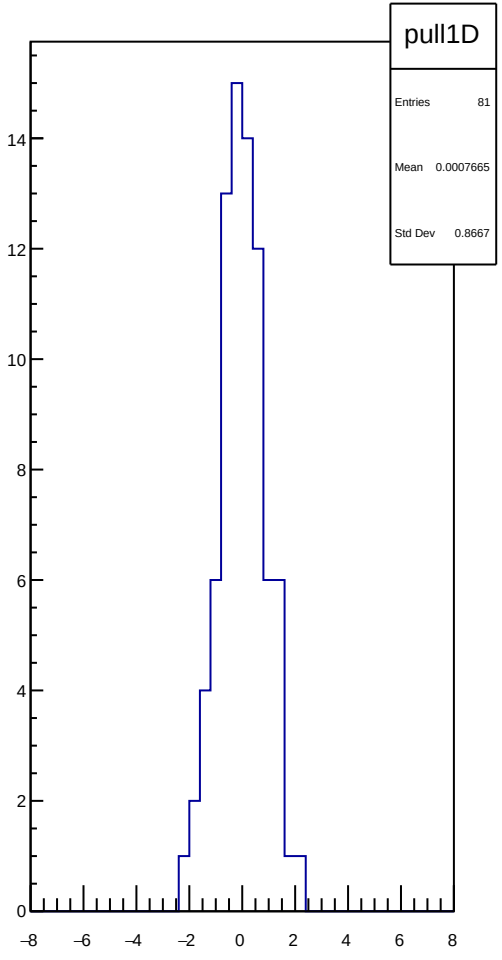

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.913e+05 / 80
p0 1.185e−11 ± 1.587e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

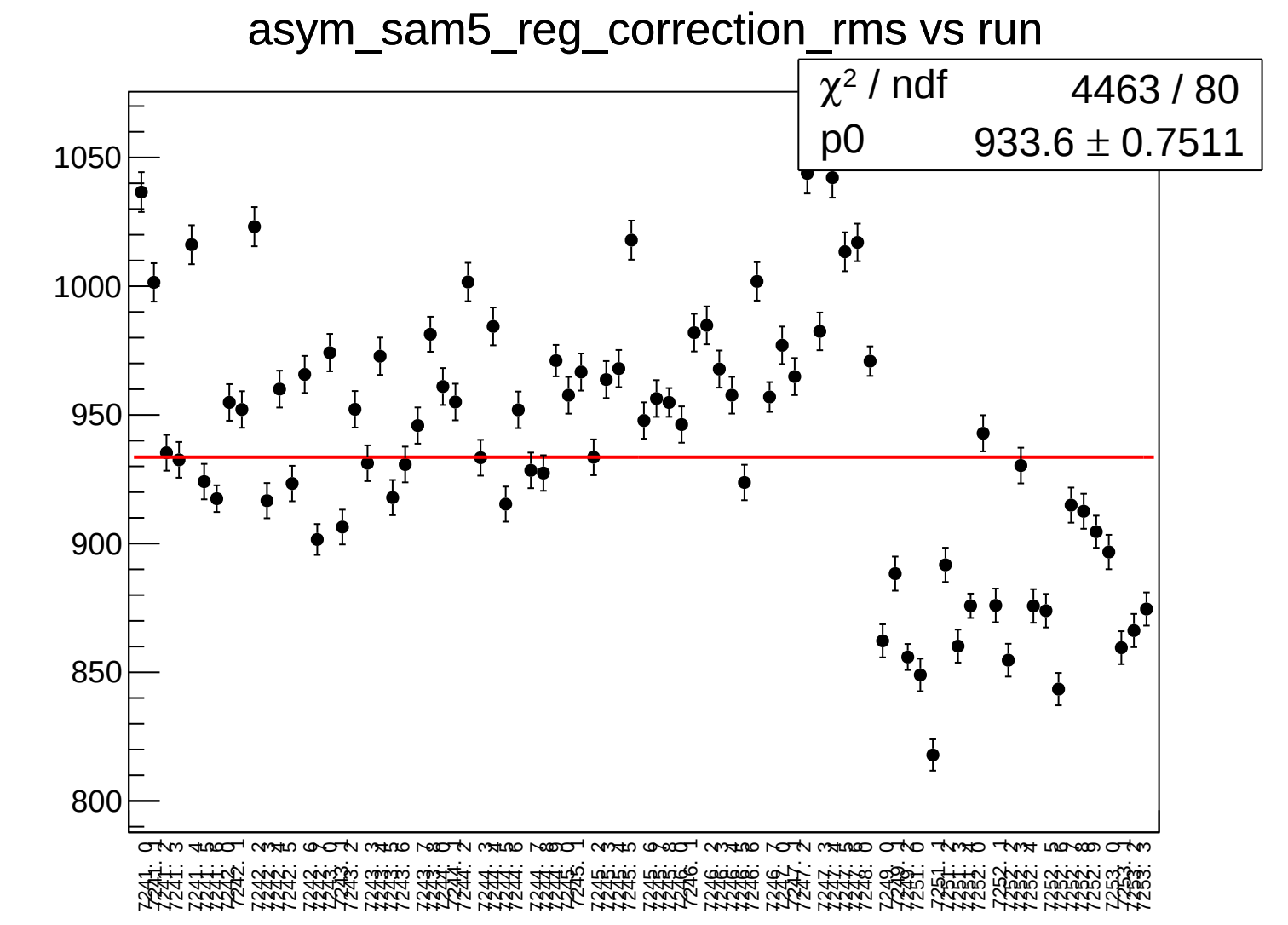

reg_asym_sam5_mean vs run
χ^2 / ndf 101.3 / 80
p0 462.1 ± 186.6
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 81
Mean 160.8
Std Dev 0
2
1
0
−1
−2

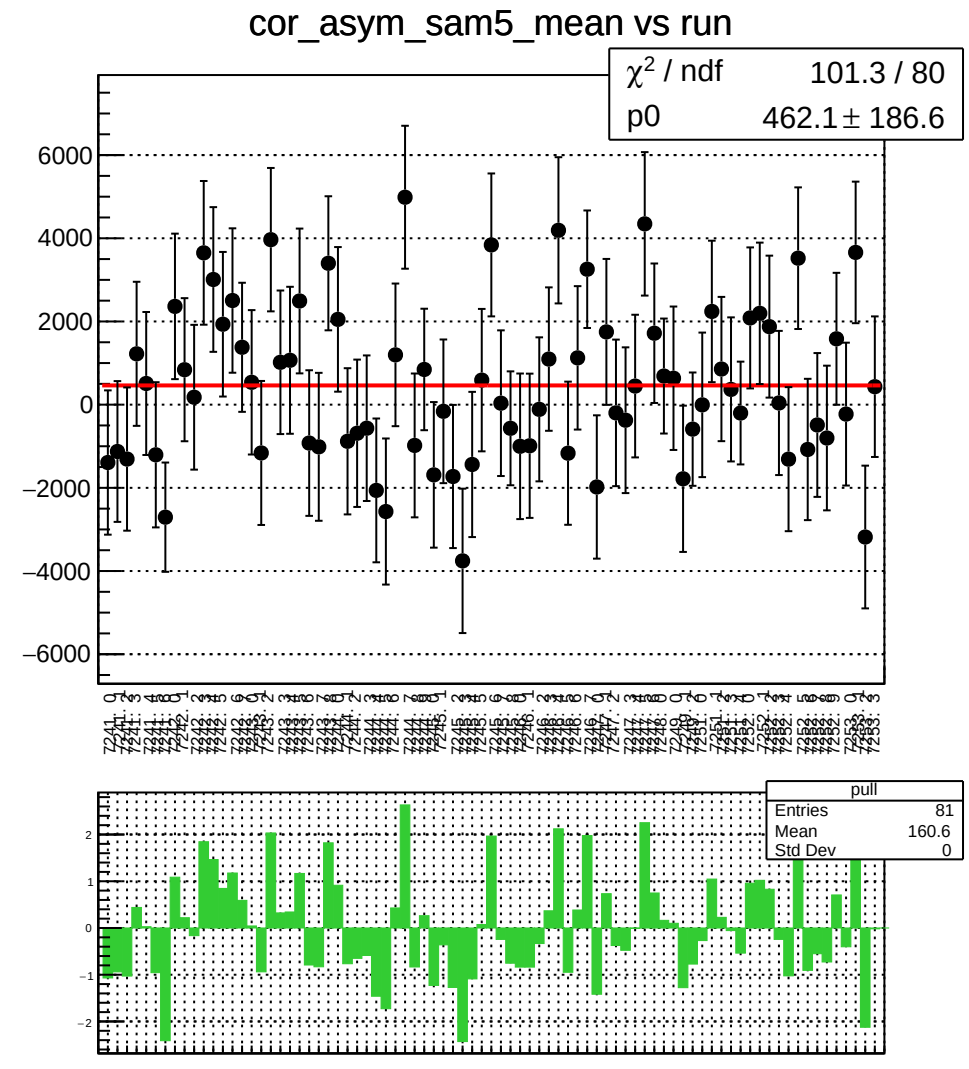

pull1D
Entries 81
Mean 0.004438
Std Dev 1.118
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

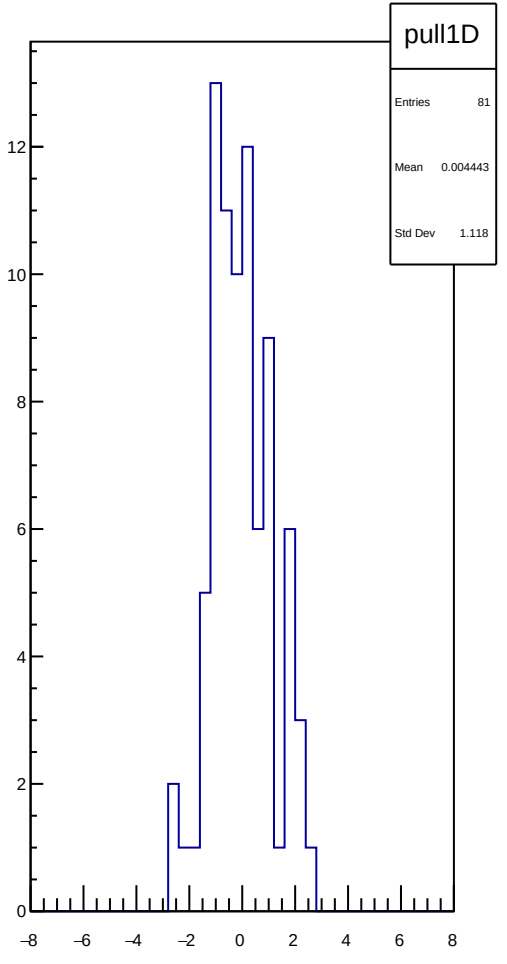

reg_asym_sam5_rms vs run
χ² / ndf 157.9 / 80
p0 164.2 ± 0.132
170
168
166
164
162
160

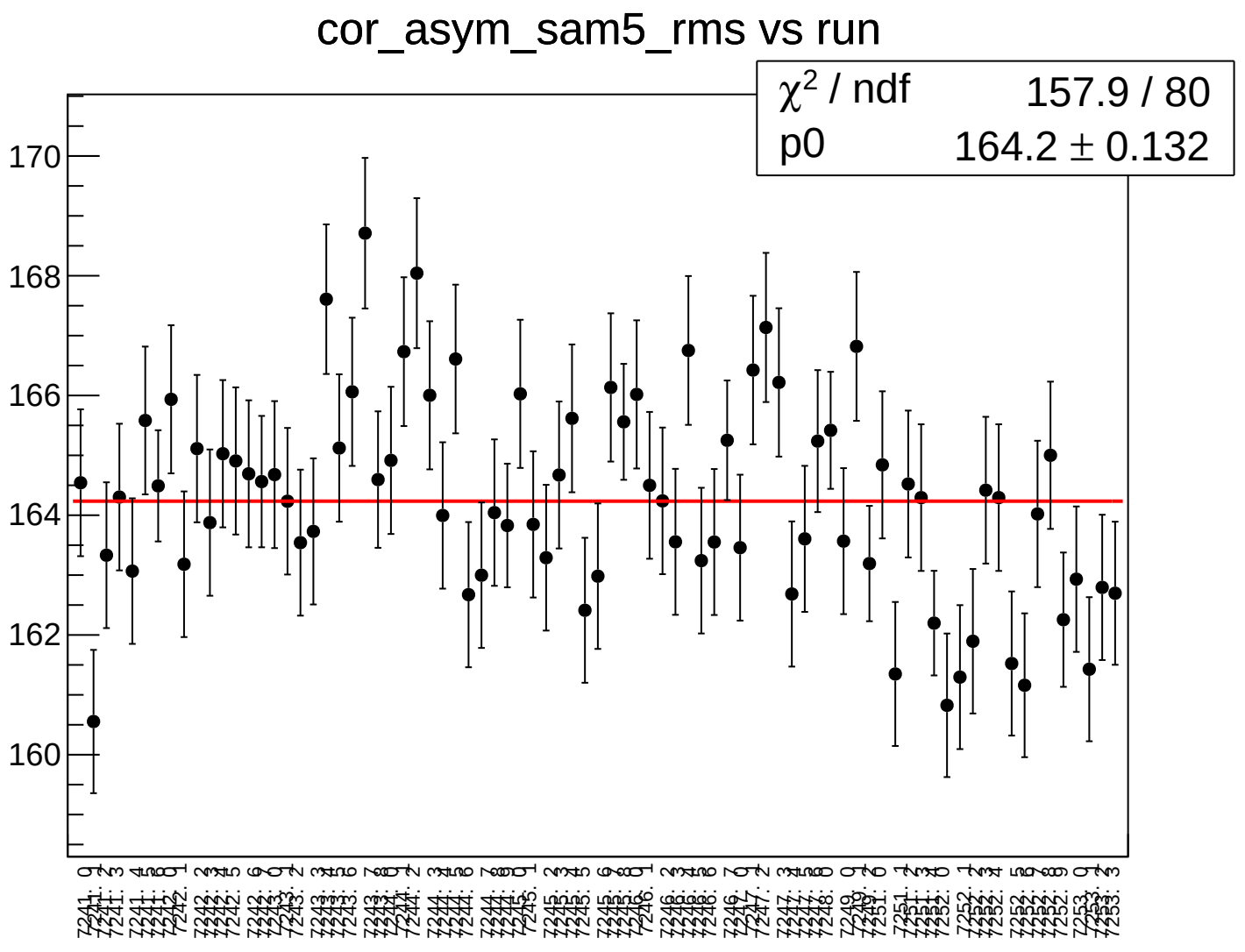

asym_sam5_reg_correction_mean vs run
χ² / ndf 60.84 / 80
p0 −267.4 ± 1062
pull
Entries 81
Mean −1227
Std Dev 0

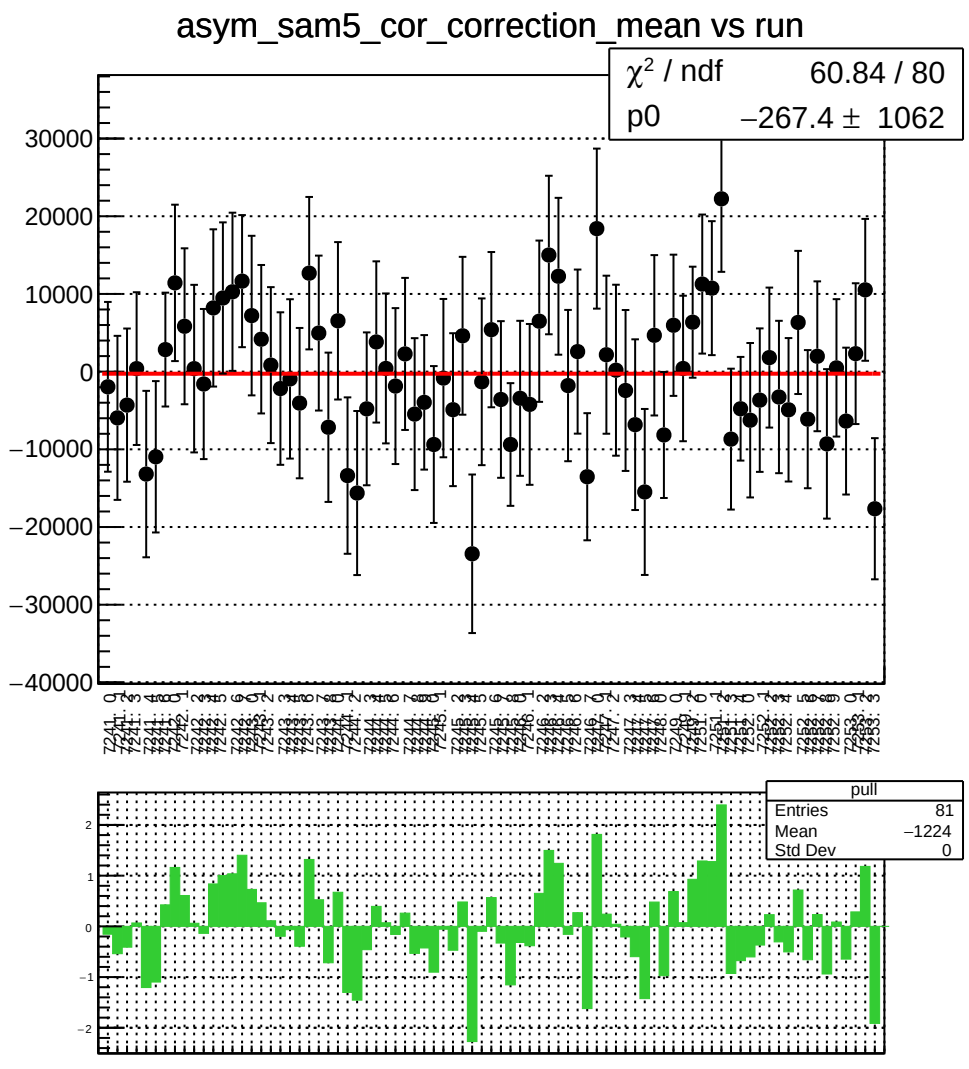

pull1D
Entries 81
Mean 0.0007665
Std Dev 0.8667

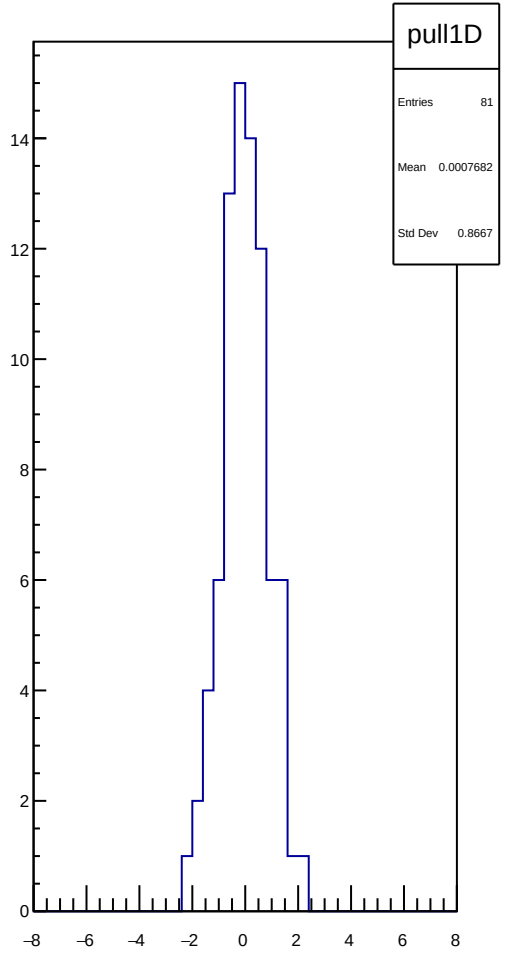

asym_sam5_reg_correction_rms vs run
χ² / ndf 4463 / 80
p0 933.6 ± 0.7511
1050
1000
950
900
850
800

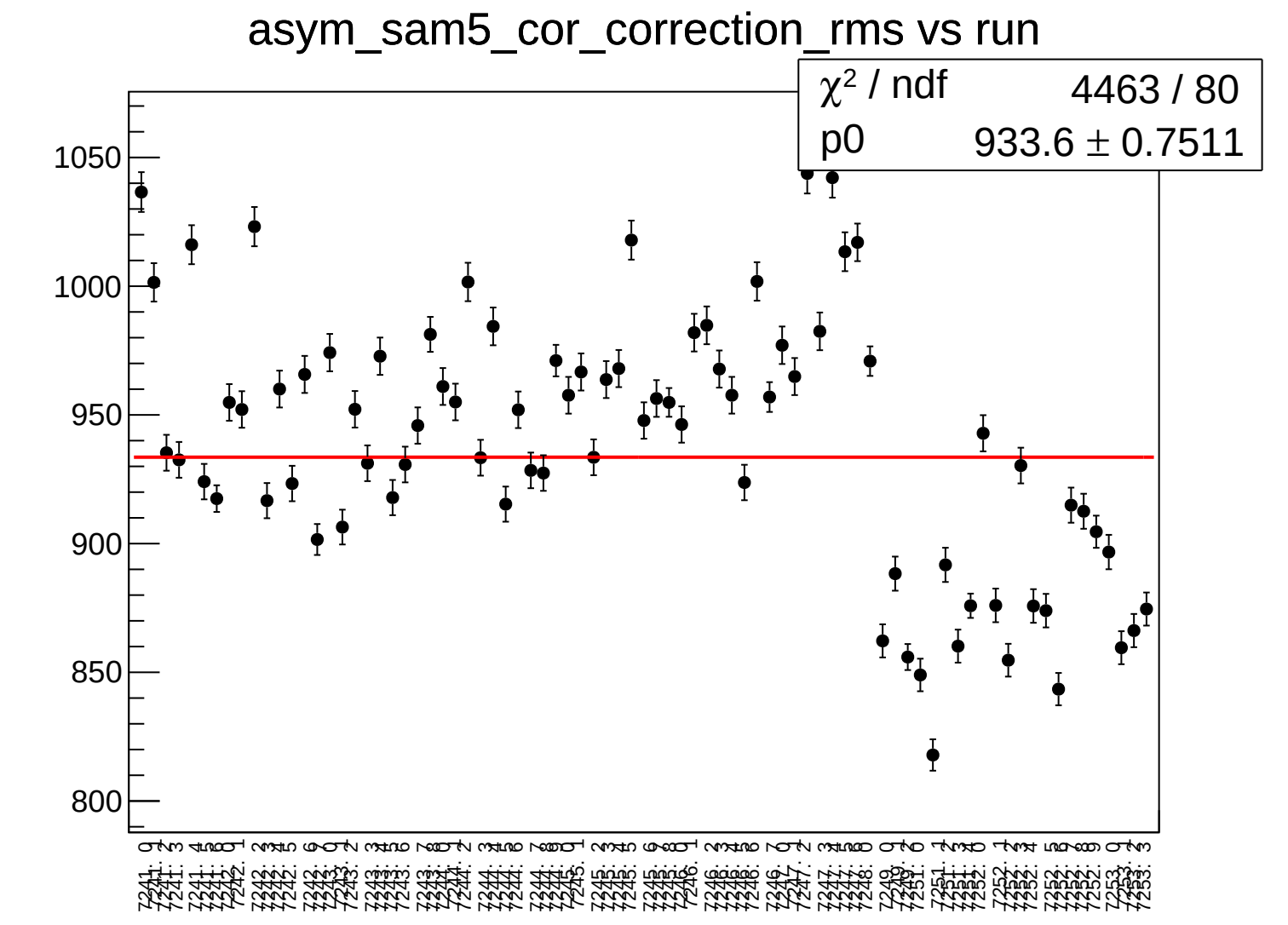

cor_asym_sam5_mean vs run
χ² / ndf 101.3 / 80
p0 462.1 ± 186.6
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 81
Mean 160.6
Std Dev 0
2
1
0
−1
−2

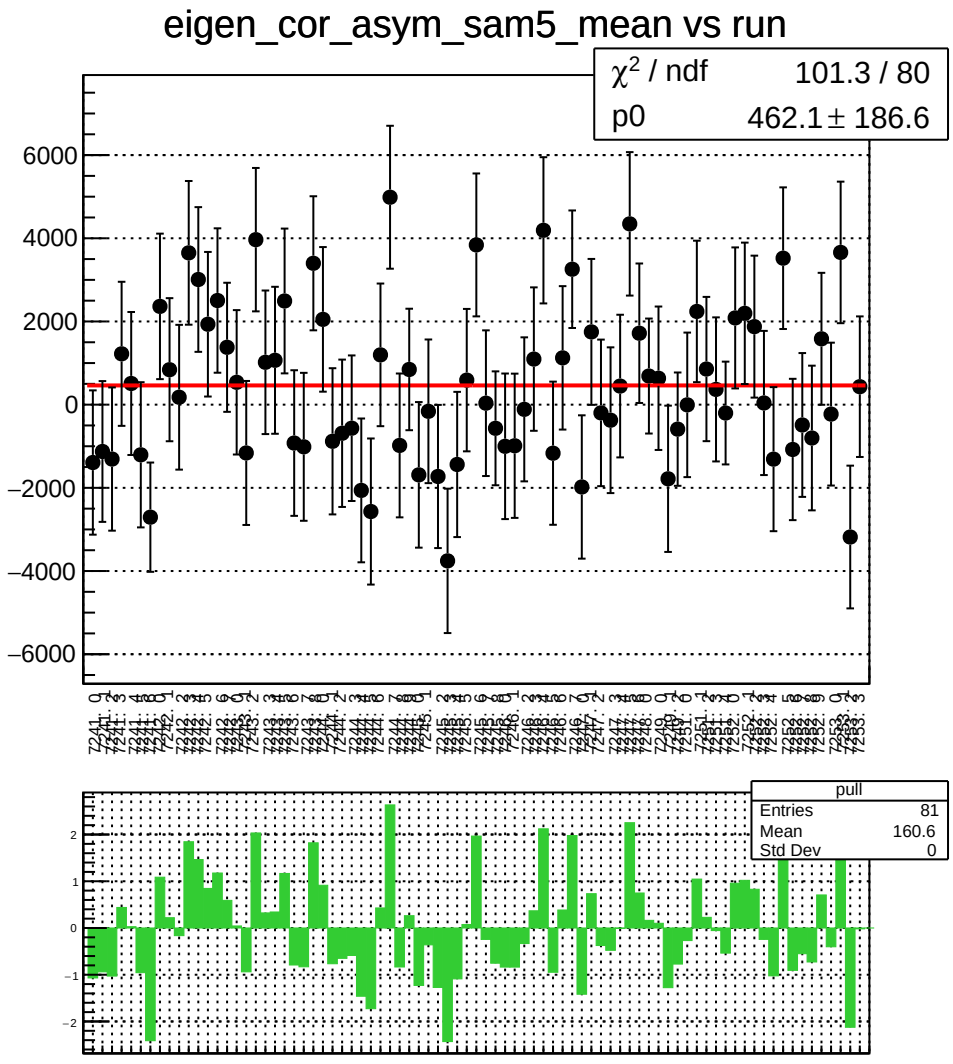

pull1D
Entries 81
Mean 0.004443
Std Dev 1.118
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

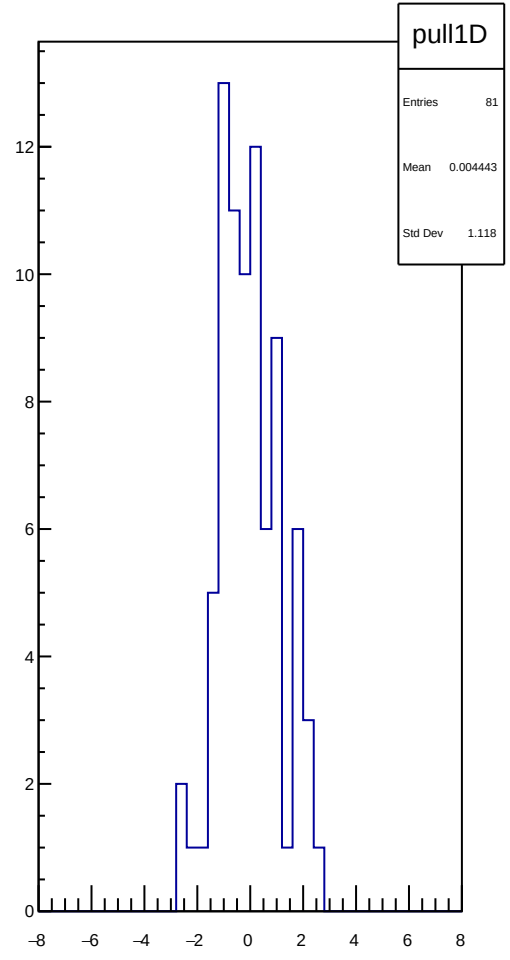

cor_asym_sam5_rms vs run
χ^2 / ndf 157.9 / 80
p0 164.2 ± 0.132
170
168
166
164
162
160

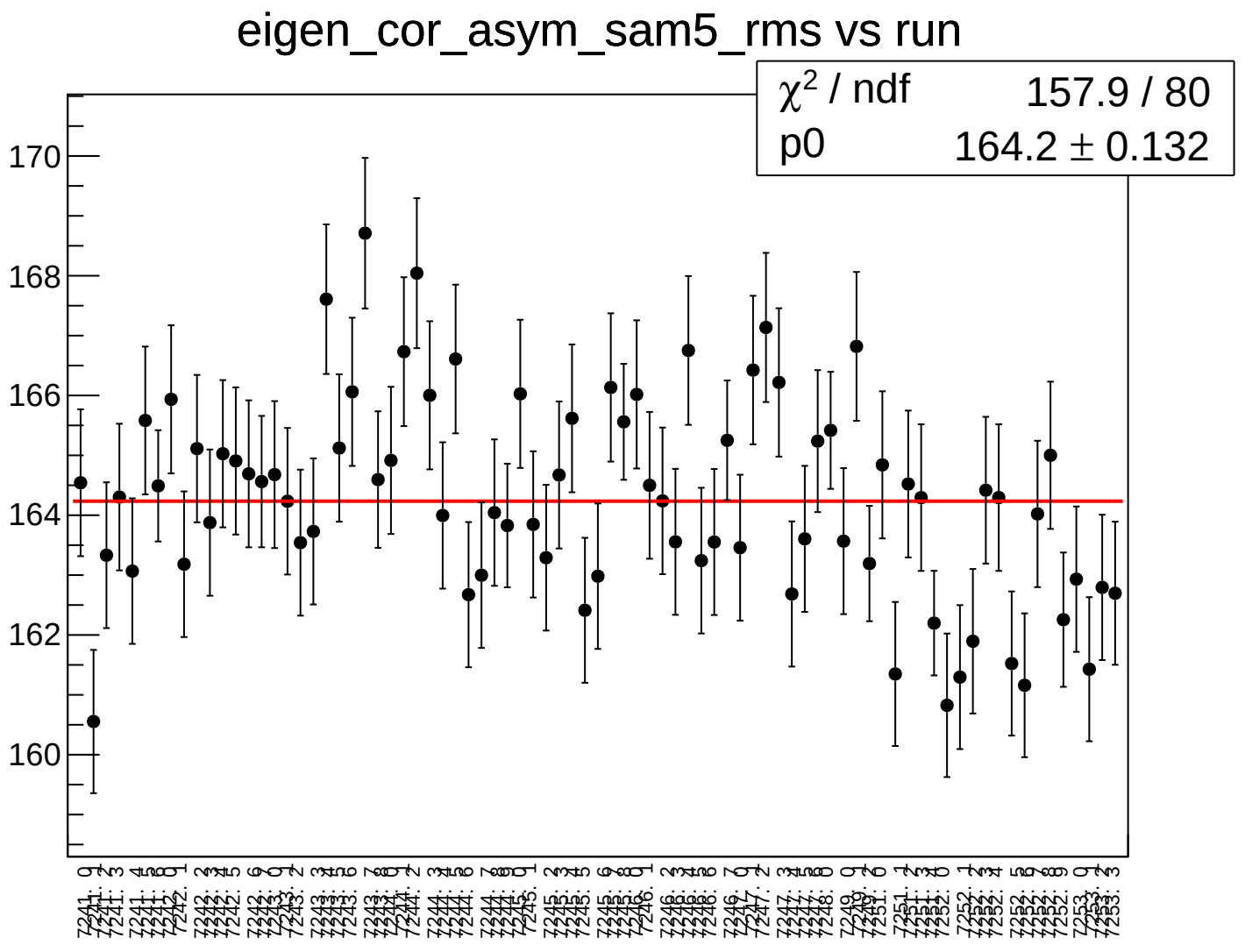

asym_sam5_cor_correction_mean vs run
χ² / ndf 60.84 / 80
p0 −267.4 ± 1062
pull
Entries 81
Mean −1224
Std Dev 0

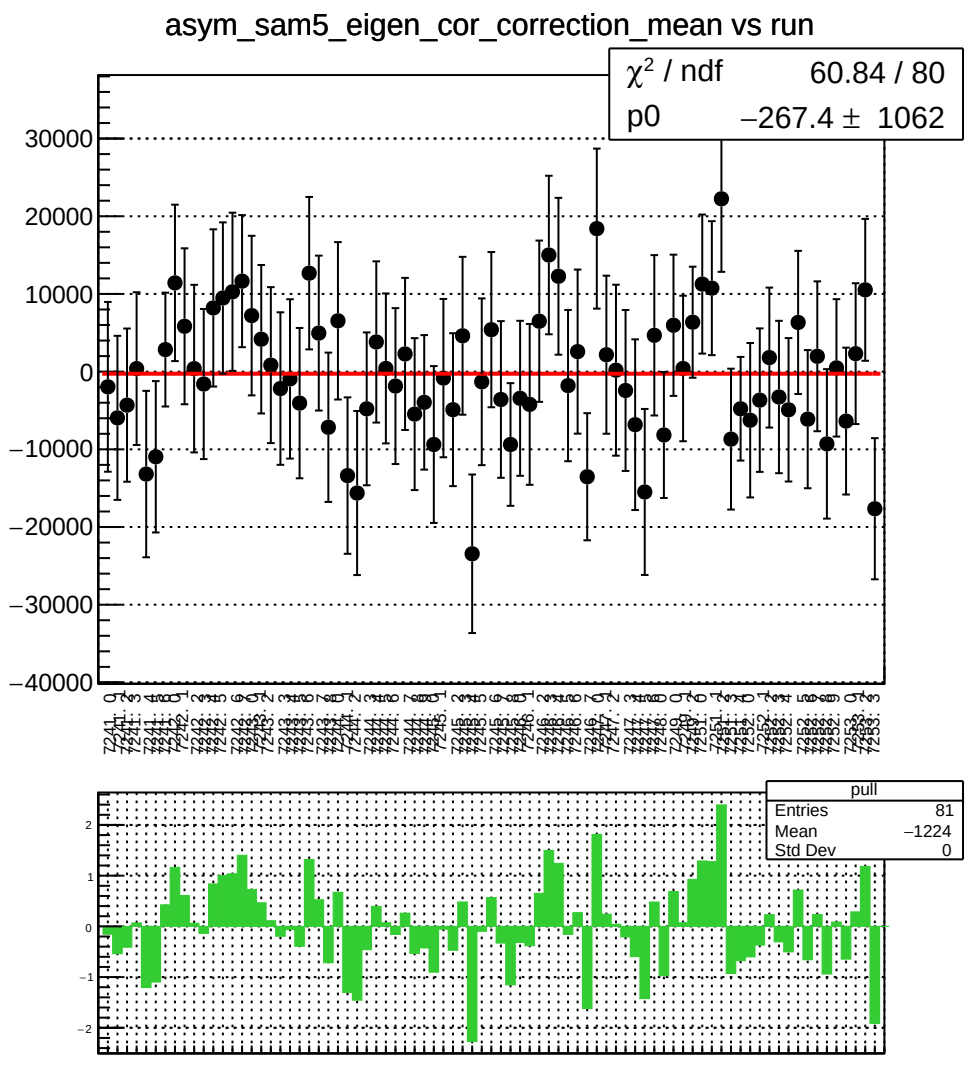

pull1D
Entries 81
Mean 0.0007682
Std Dev 0.8667

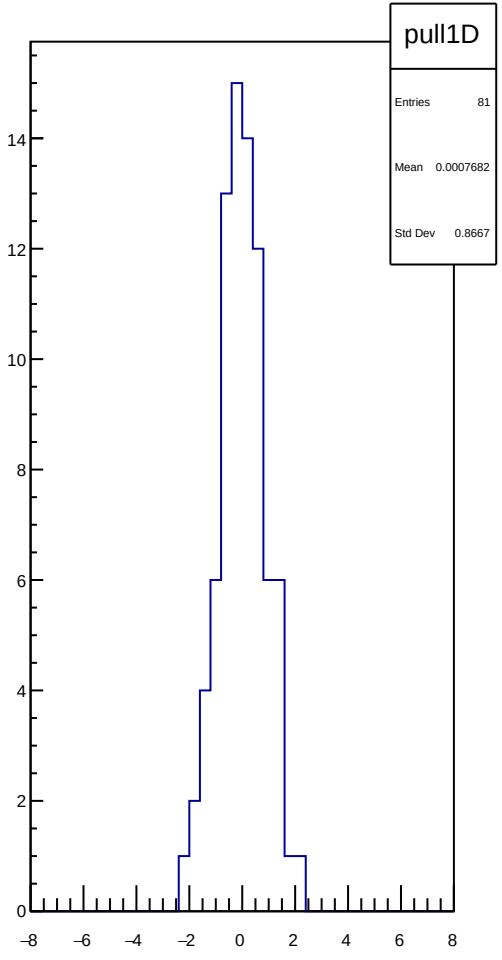

asym_sam5_cor_correction_rms vs run
χ² / ndf 4463 / 80
p0 933.6 ± 0.7511
1050
1000
950
900
850
800

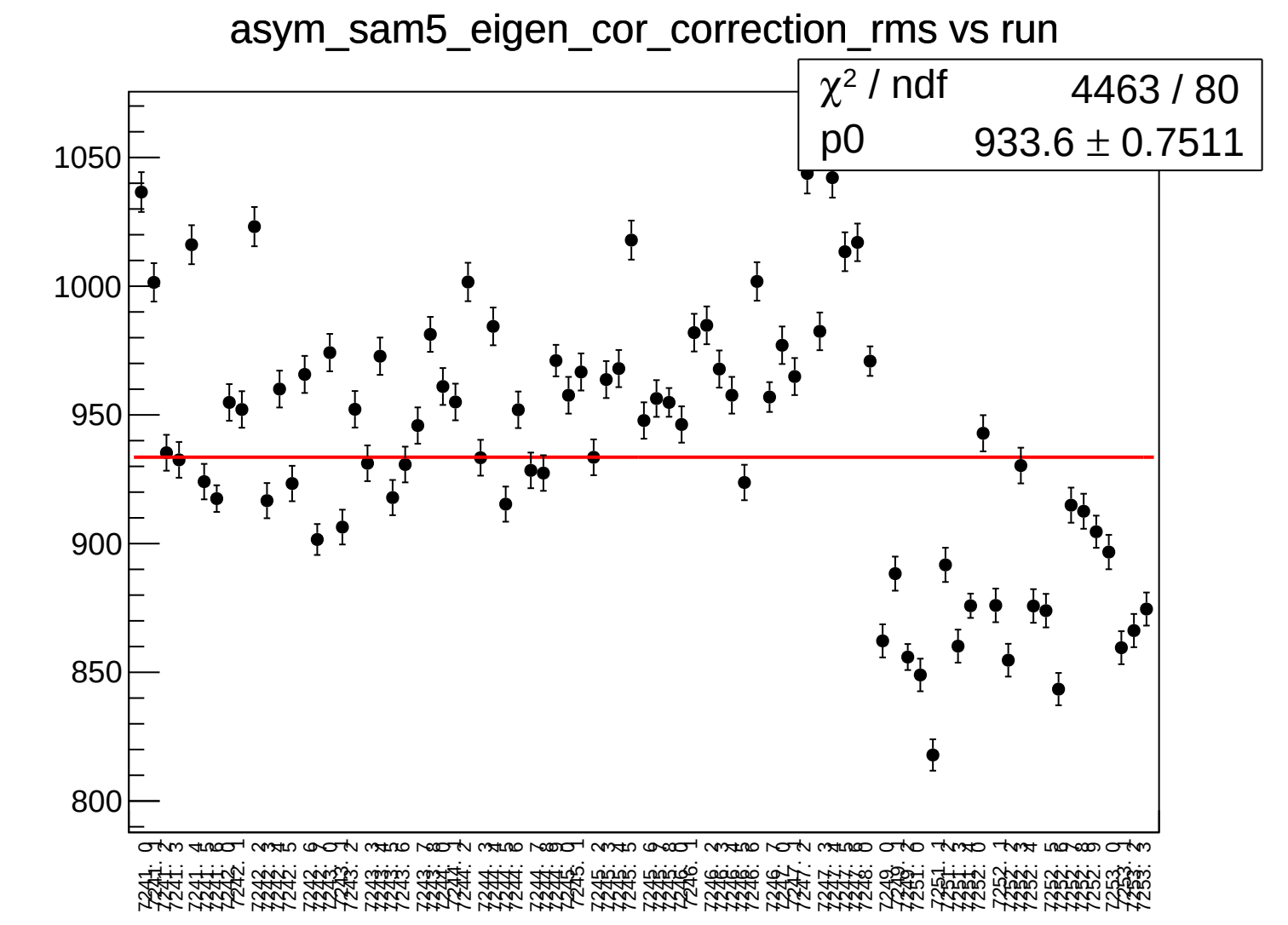

eigen_cor_asym_sam5_mean vs run
χ² / ndf 101.3 / 80
p0 462.1 ± 186.6
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 81
Mean 160.6
Std Dev 0
2
1
0
−1
−2

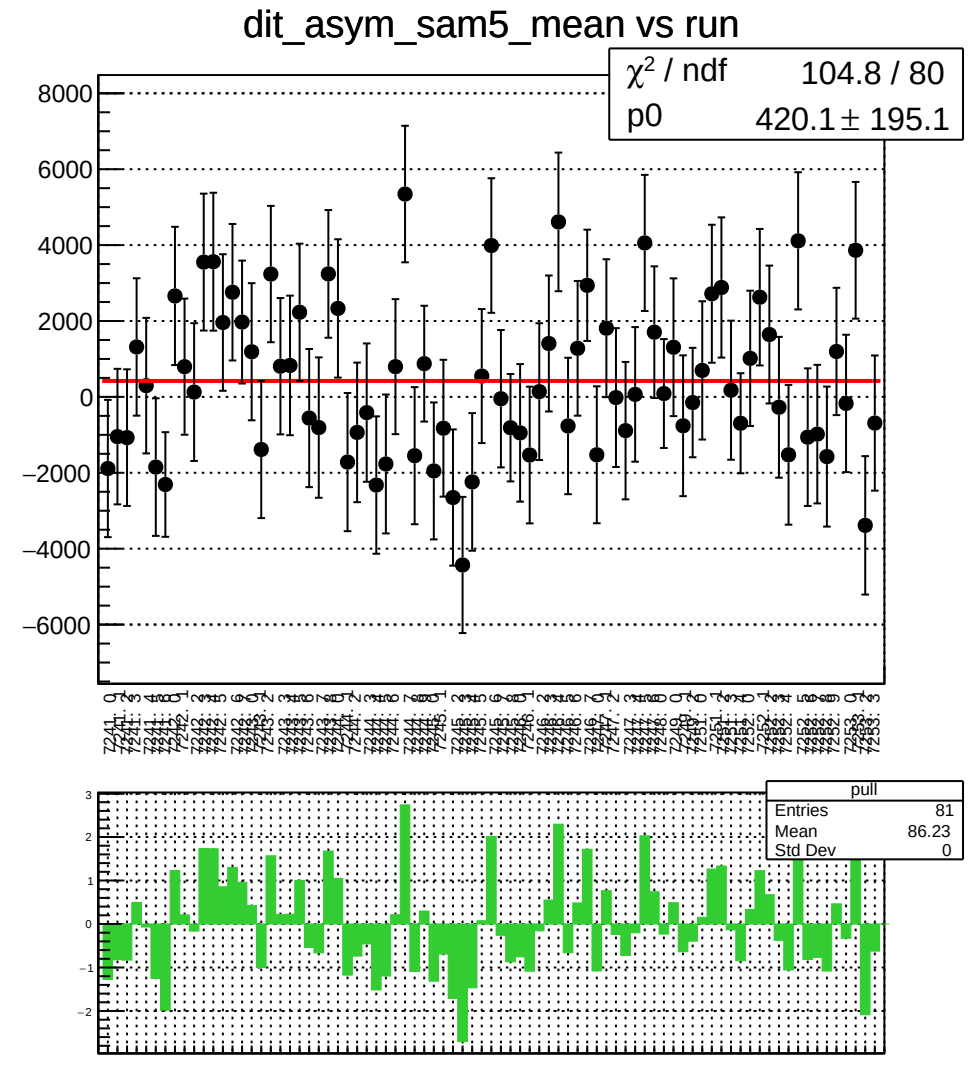

pull1D
Entries 81
Mean 0.004443
Std Dev 1.118
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

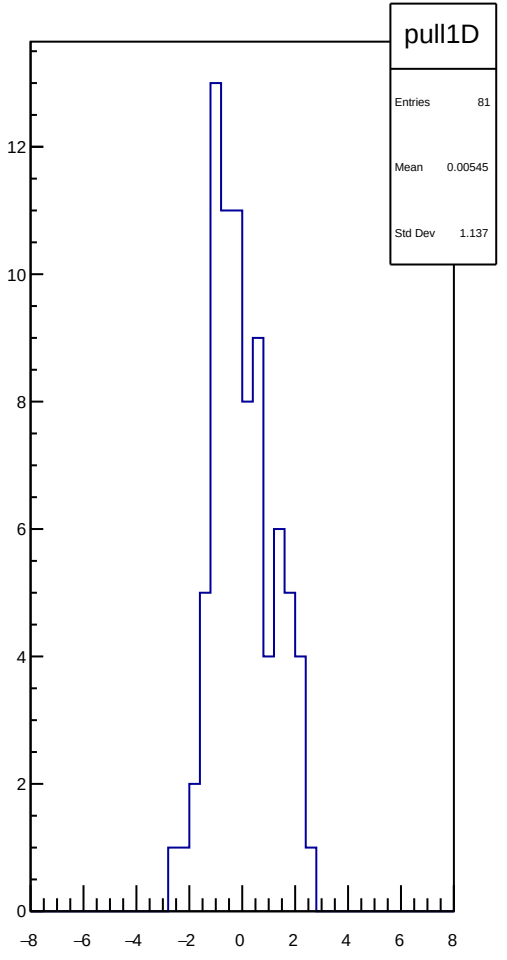

eigen_cor_asym_sam5_rms vs run
χ² / ndf 157.9 / 80
p0 164.2 ± 0.132
170
168
166
164
162
160

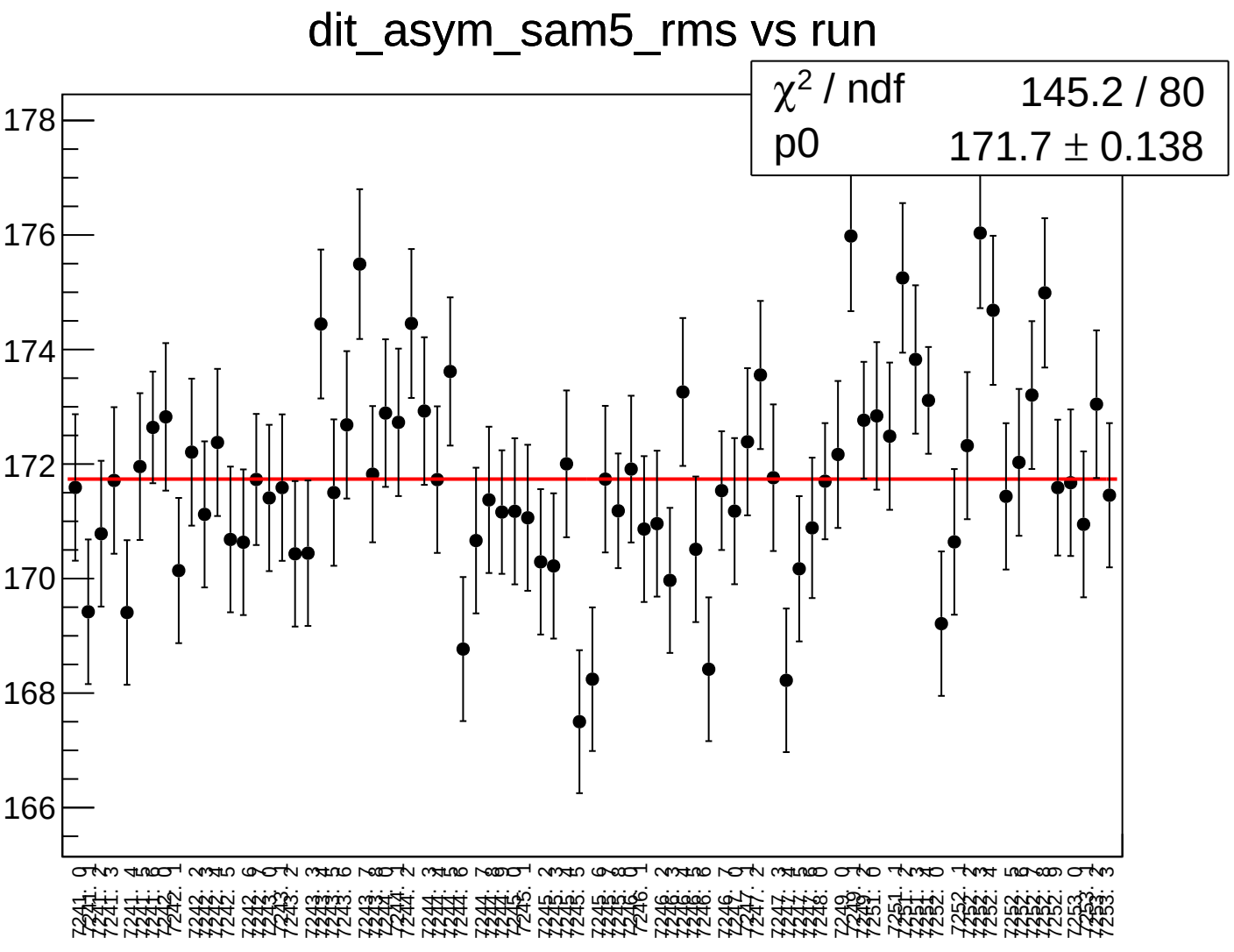

asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 60.84 / 80
p0 −267.4 ± 1062
pull
Entries 81
Mean −1224
Std Dev 0

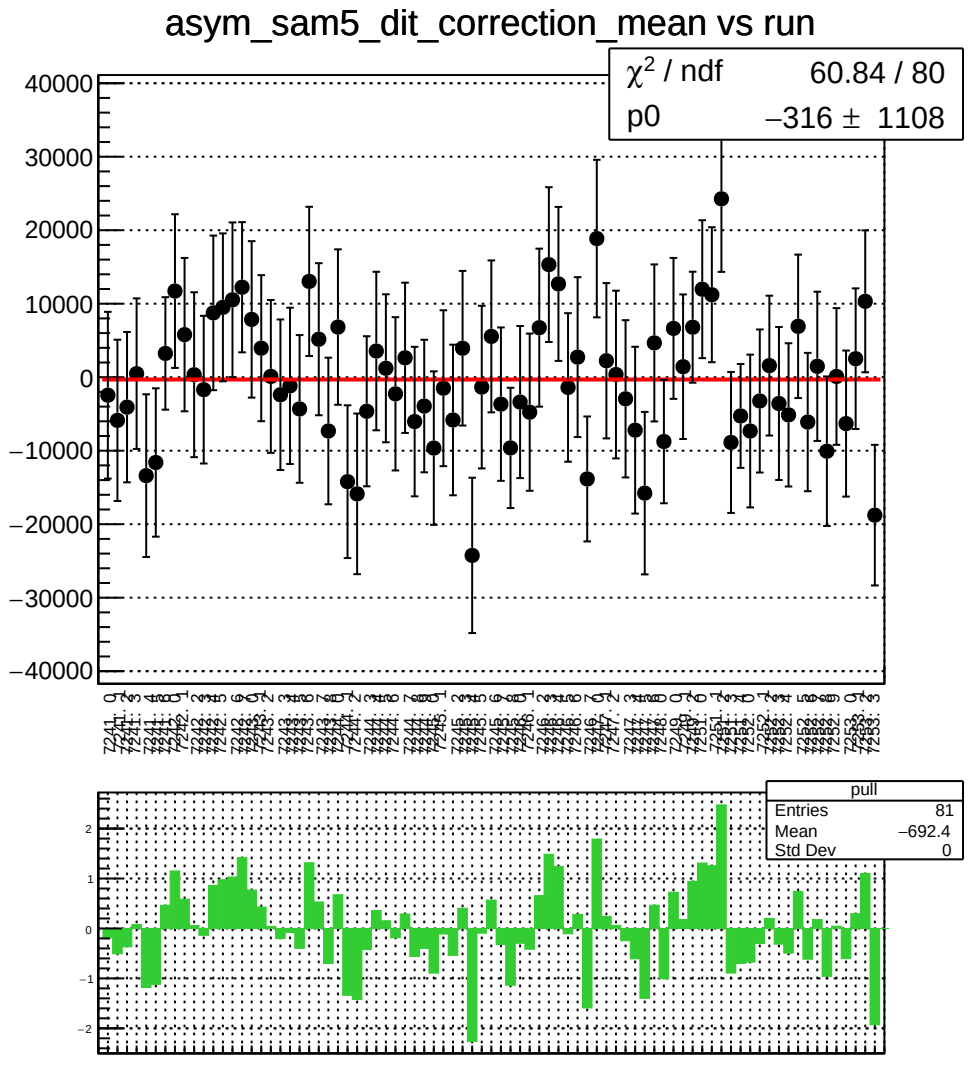

pull1D
Entries 81
Mean 0.0007682
Std Dev 0.8667

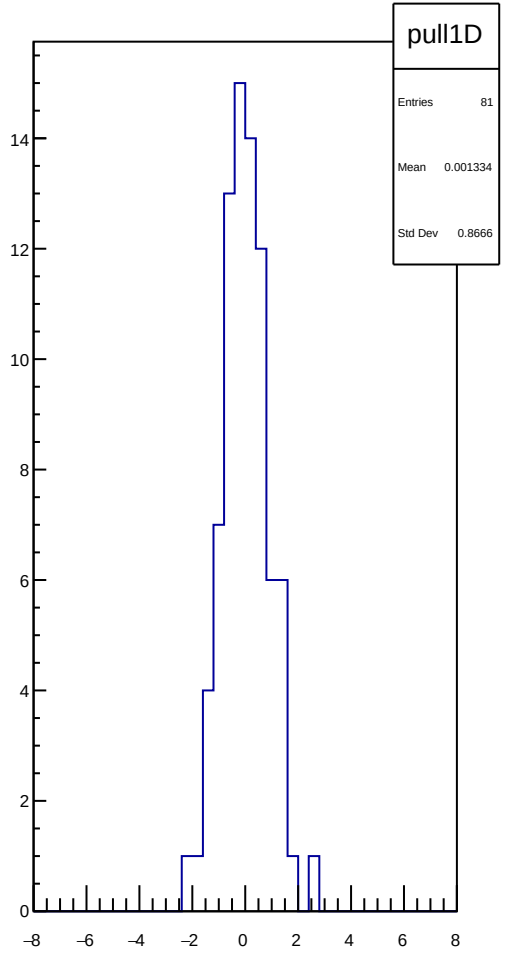

asym_sam5_eigen_cor_correction_rms vs run
χ² / ndf 4463 / 80
p0 933.6 ± 0.7511
1050
1000
950
900
850
800

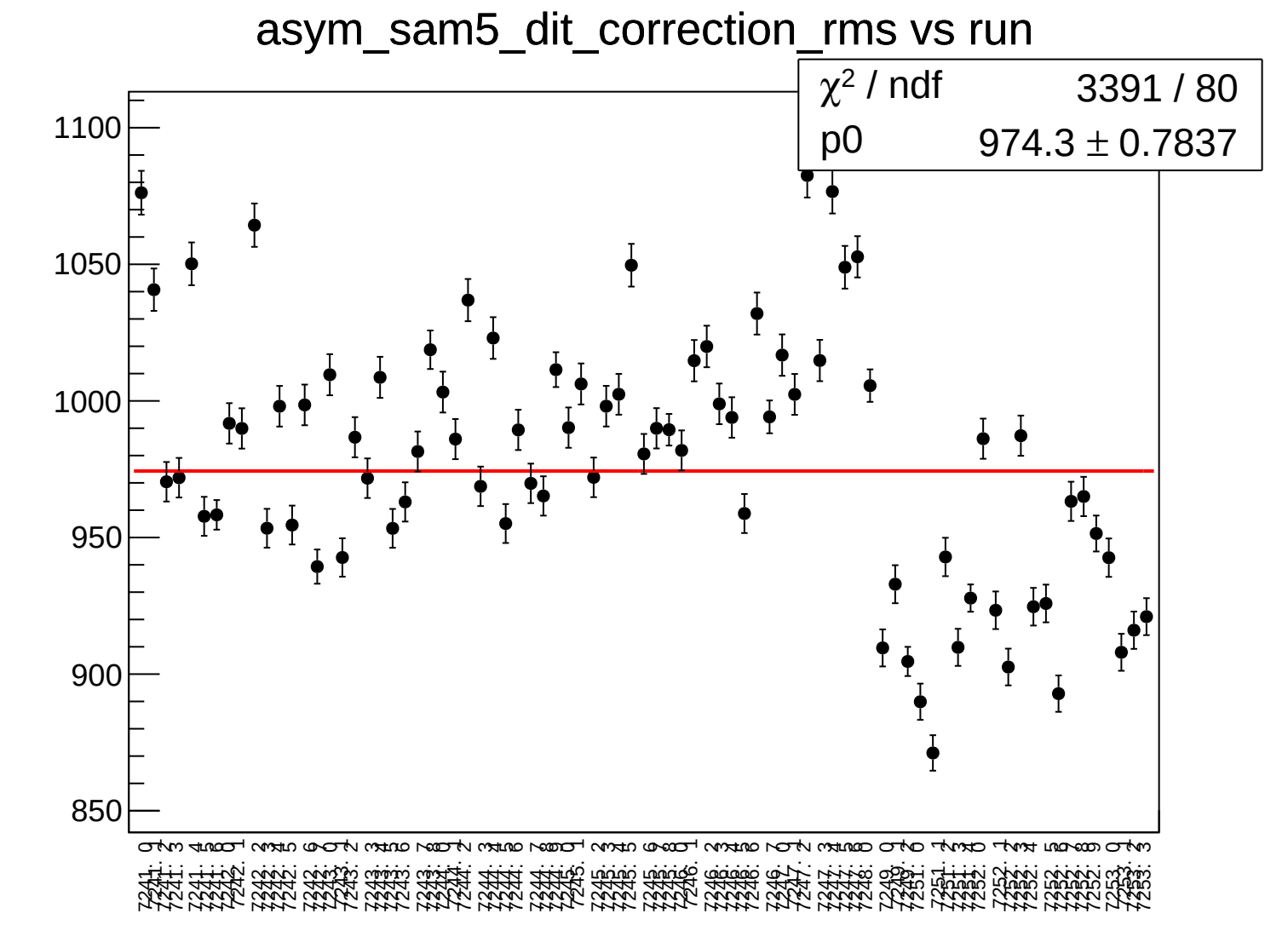

dit_asym_sam5_mean vs run
χ² / ndf 104.8 / 80
p0 420.1 ± 195.1
pull
Entries 81
Mean 86.23
Std Dev 0

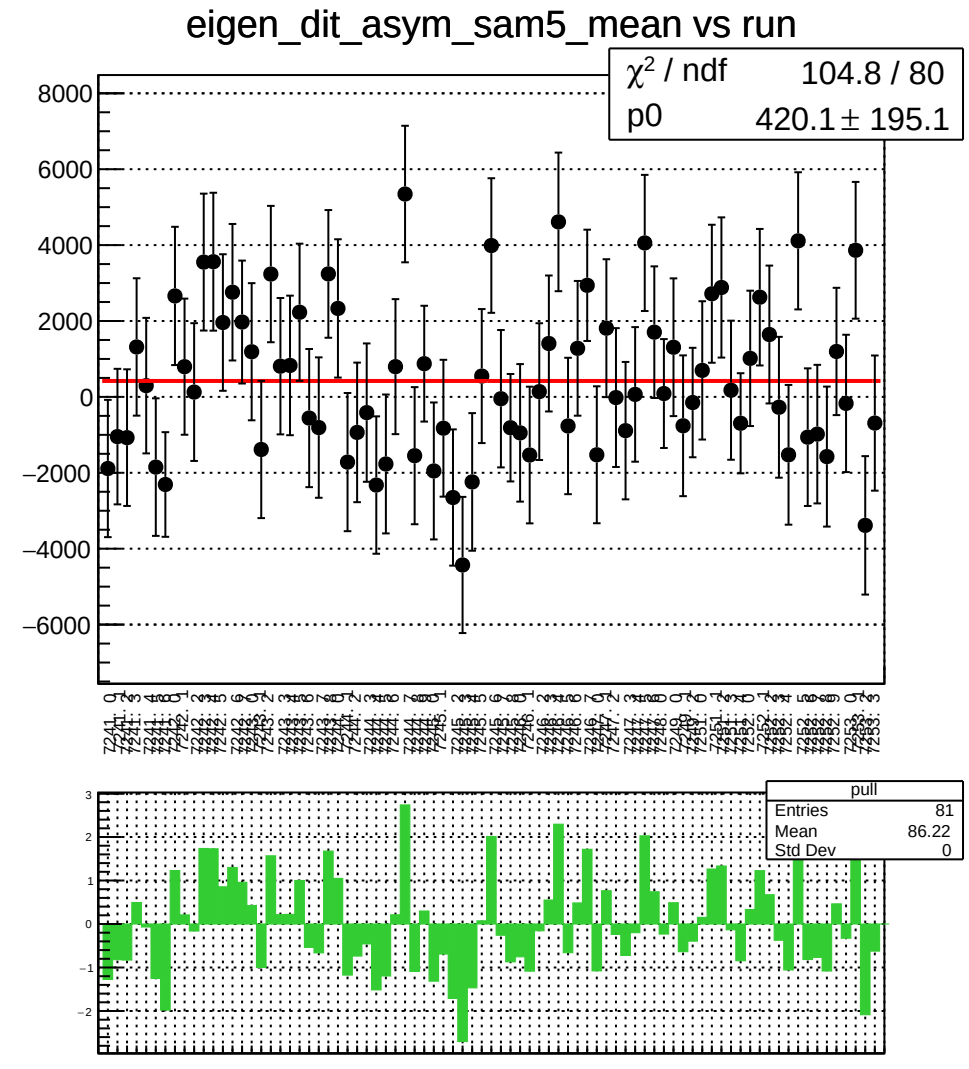

pull1D
Entries 81
Mean 0.00545
Std Dev 1.137

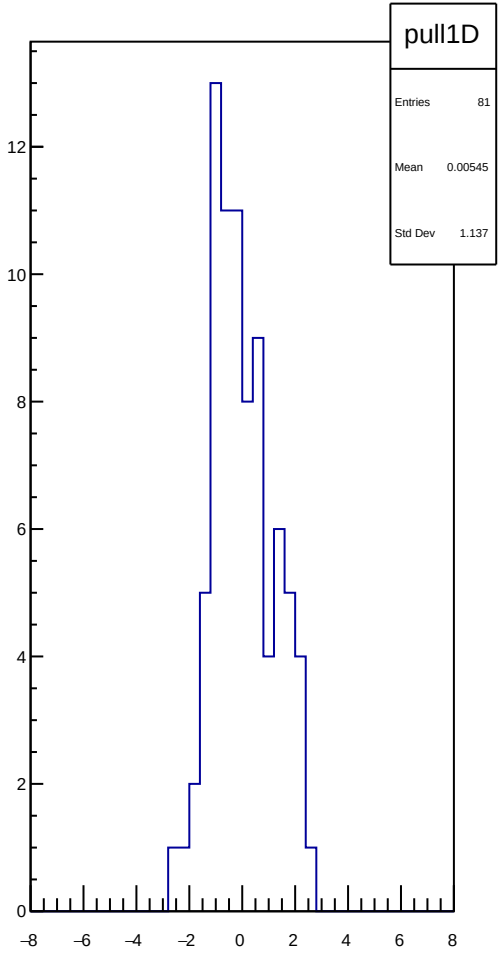

dit_asym_sam5_rms vs run
χ² / ndf 145.2 / 80
p0 171.7 ± 0.138
178
176
174
172
170
168
166

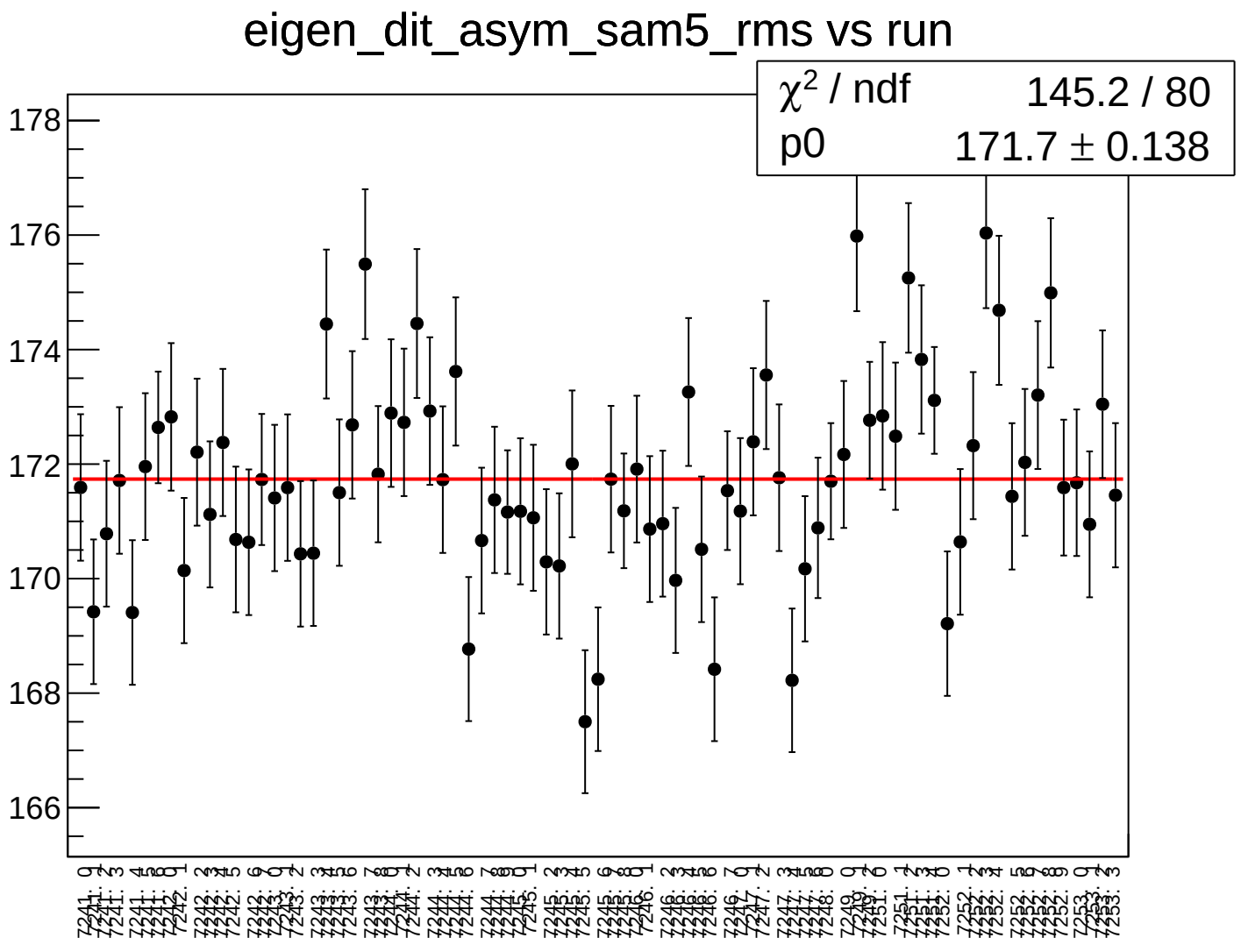

asym_sam5_dit_correction_mean vs run
χ² / ndf 60.84 / 80
p0 −316 ± 1108
pull
Entries 81
Mean −692.4
Std Dev 0

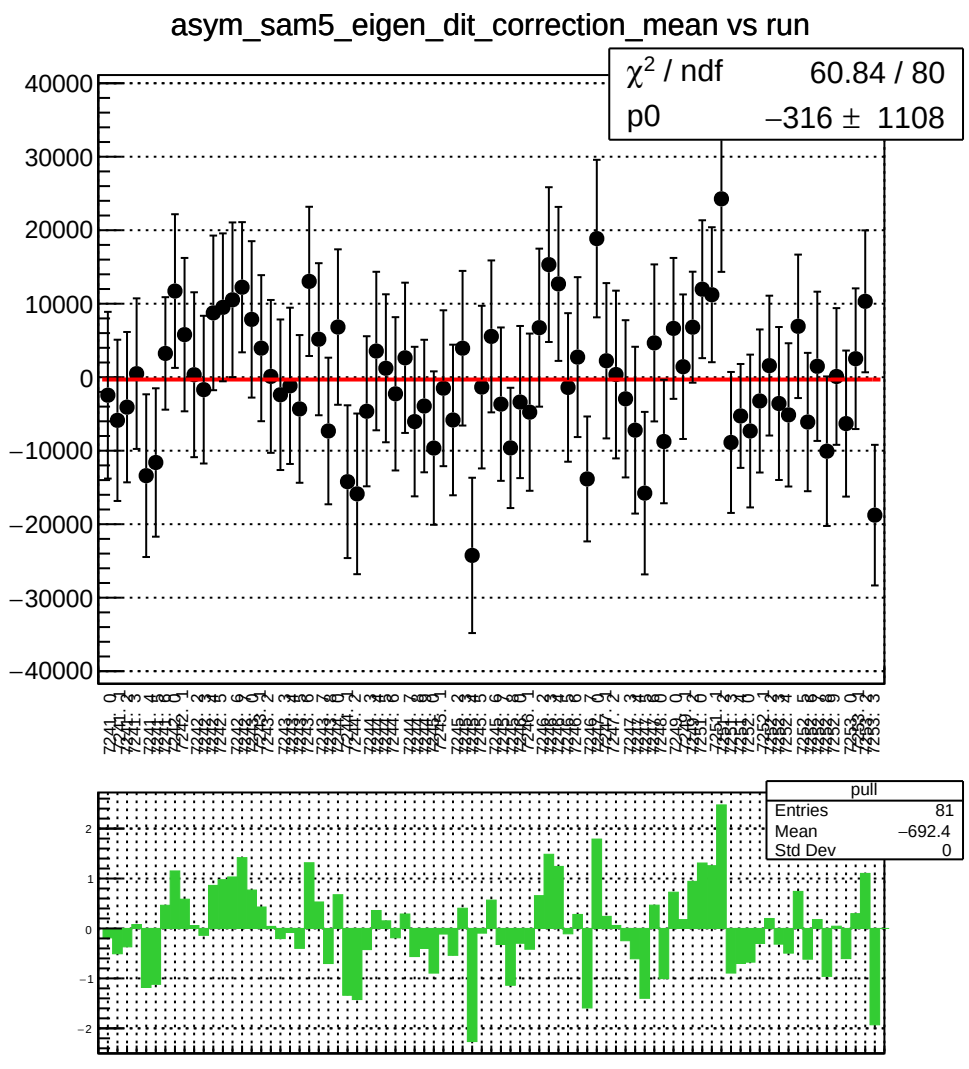

pull1D
Entries 81
Mean 0.001334
Std Dev 0.8666

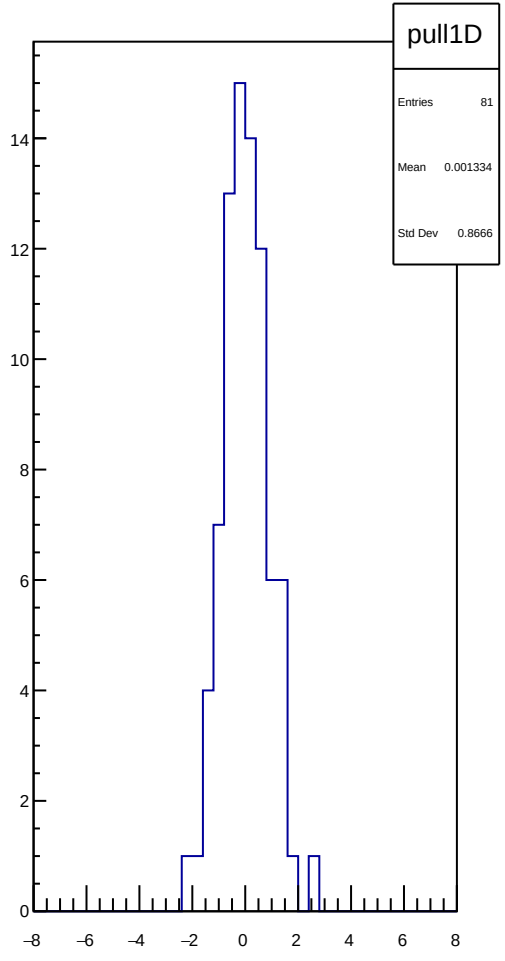

asym_sam5_dit_correction_rms vs run
χ² / ndf 3391 / 80
p0 974.3 ± 0.7837
1100
1050
1000
950
900
850

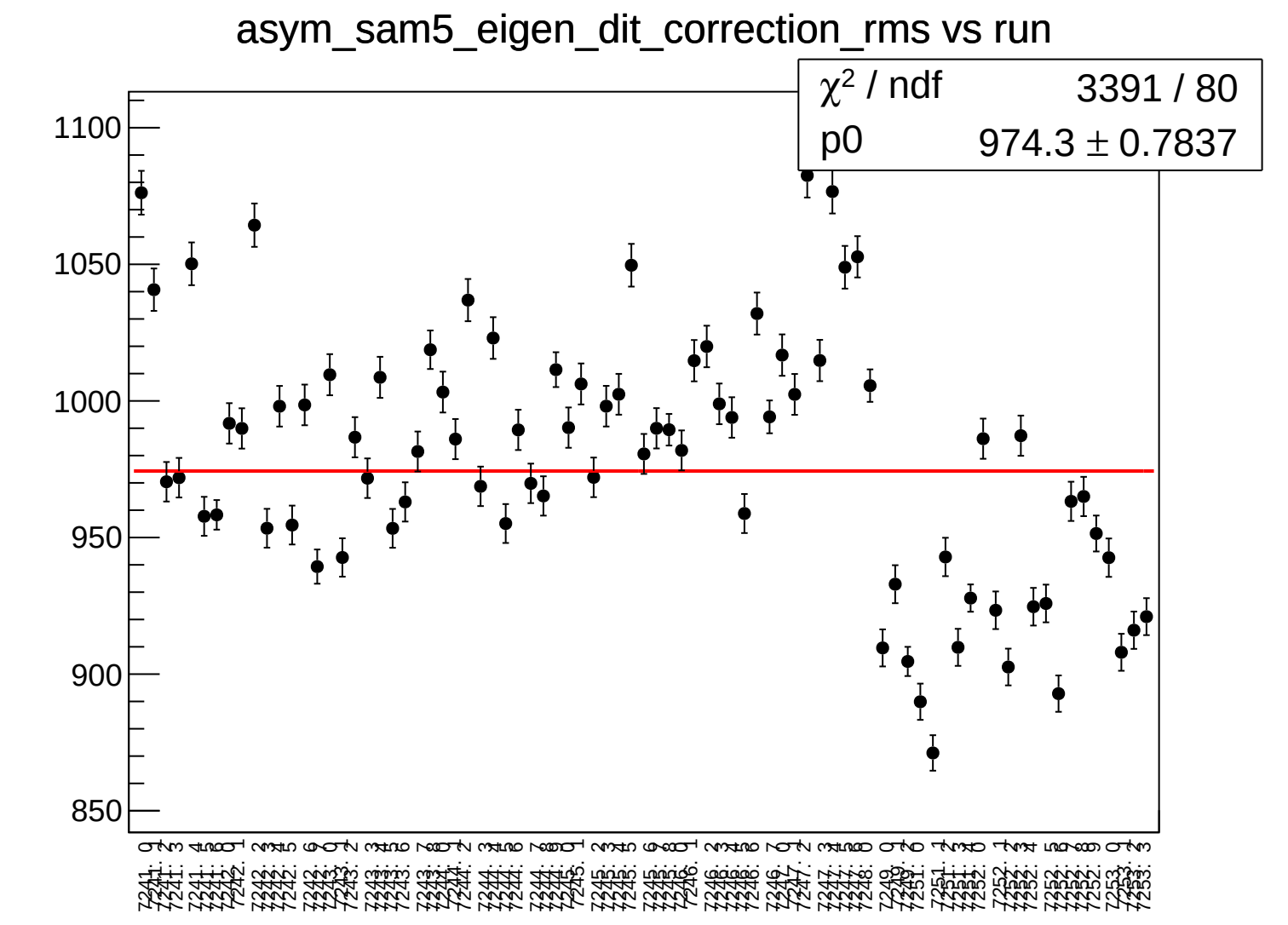

eigen_dit_asym_sam5_mean vs run
χ² / ndf 104.8 / 80
p0 420.1 ± 195.1
pull
Entries 81
Mean 86.22
Std Dev 0

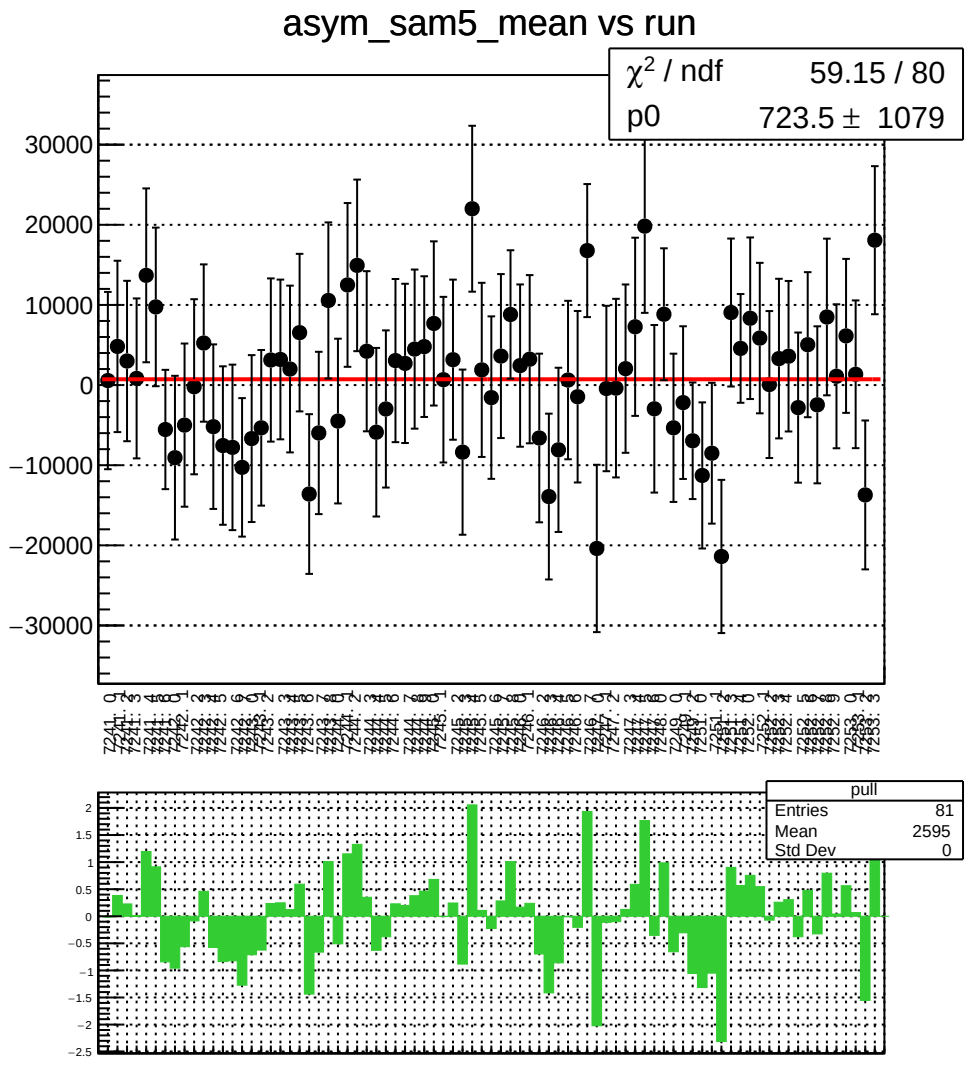

pull1D
Entries 81
Mean 0.00545
Std Dev 1.137

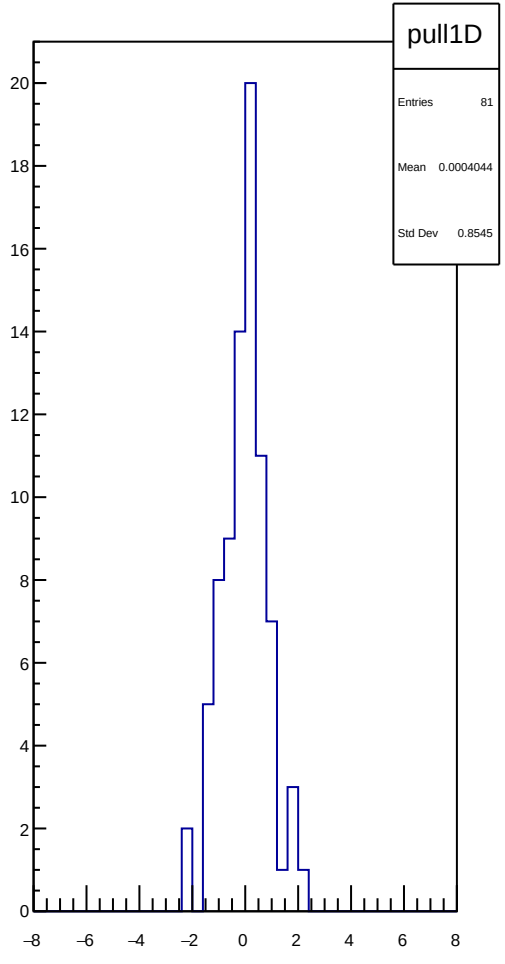

eigen_dit_asym_sam5_rms vs run
χ² / ndf 145.2 / 80
p0 171.7 ± 0.138
178
176
174
172
170
168
166

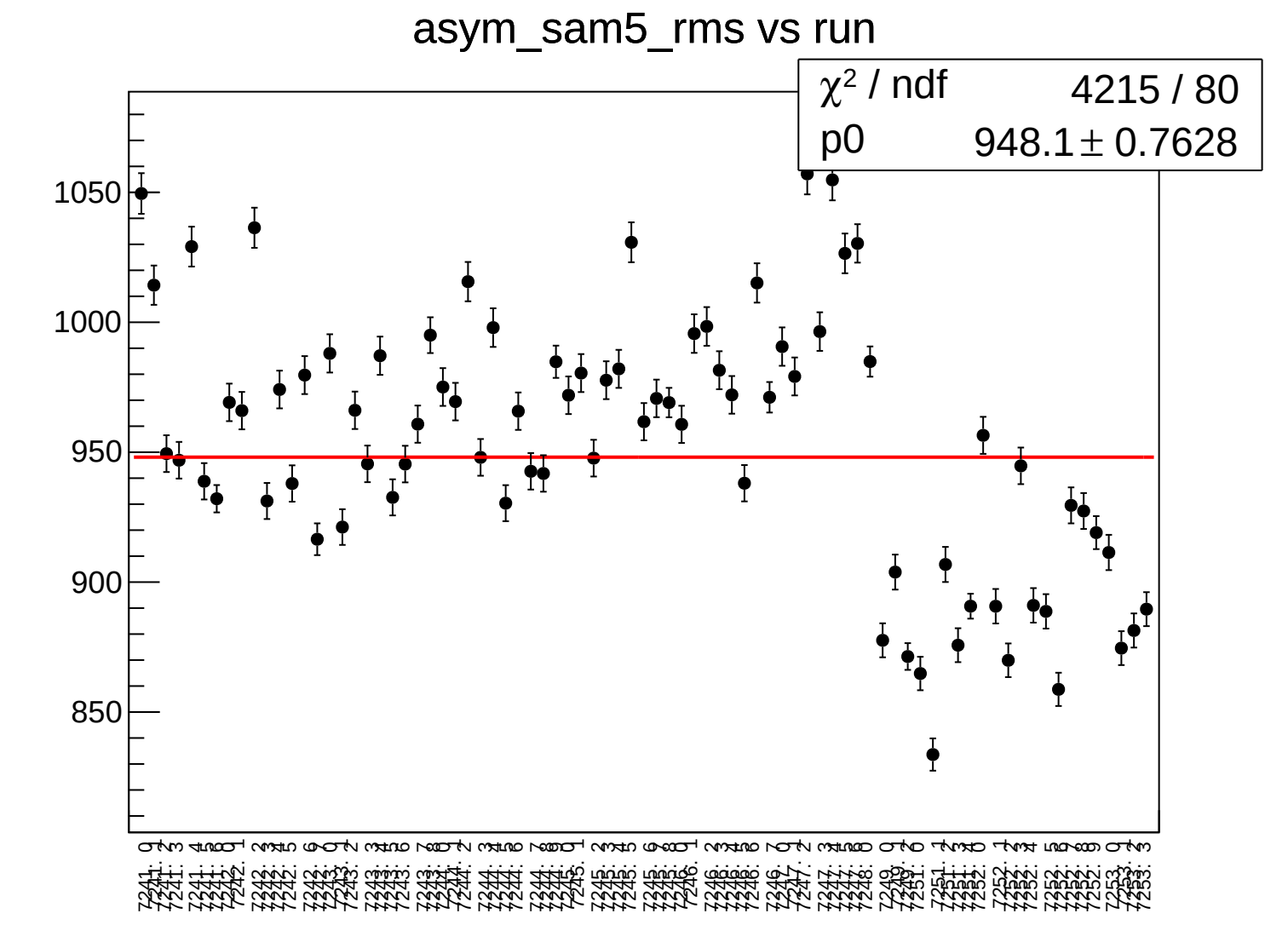

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 60.84 / 80
p0 −316 ± 1108
pull
Entries 81
Mean −692.4
Std Dev 0

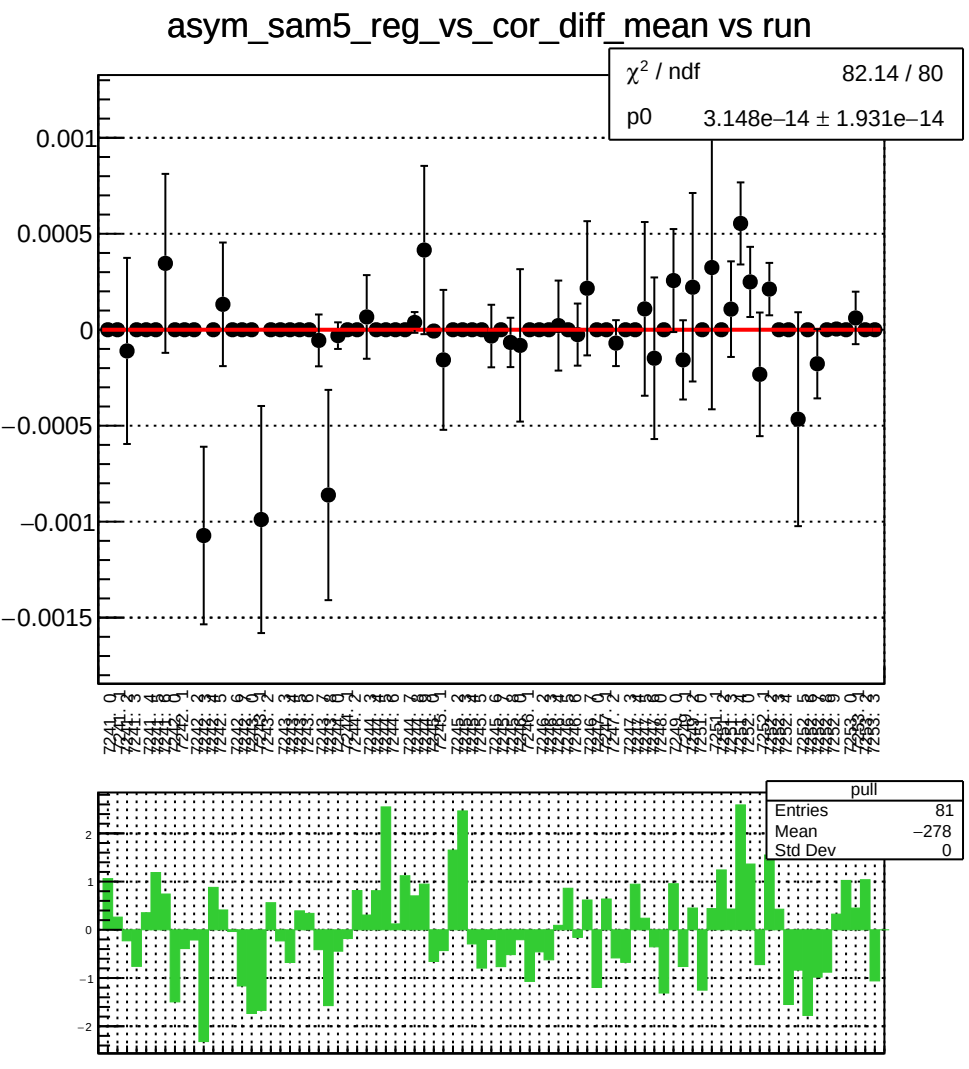

pull1D
Entries 81
Mean 0.001334
Std Dev 0.8666

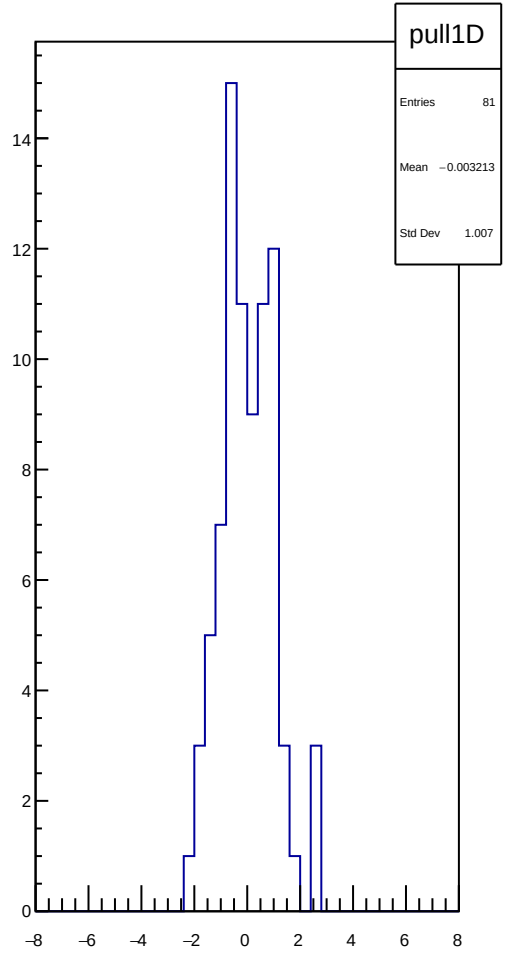

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 3391 / 80
p0 974.3 ± 0.7837
1100
1050
1000
950
900
850

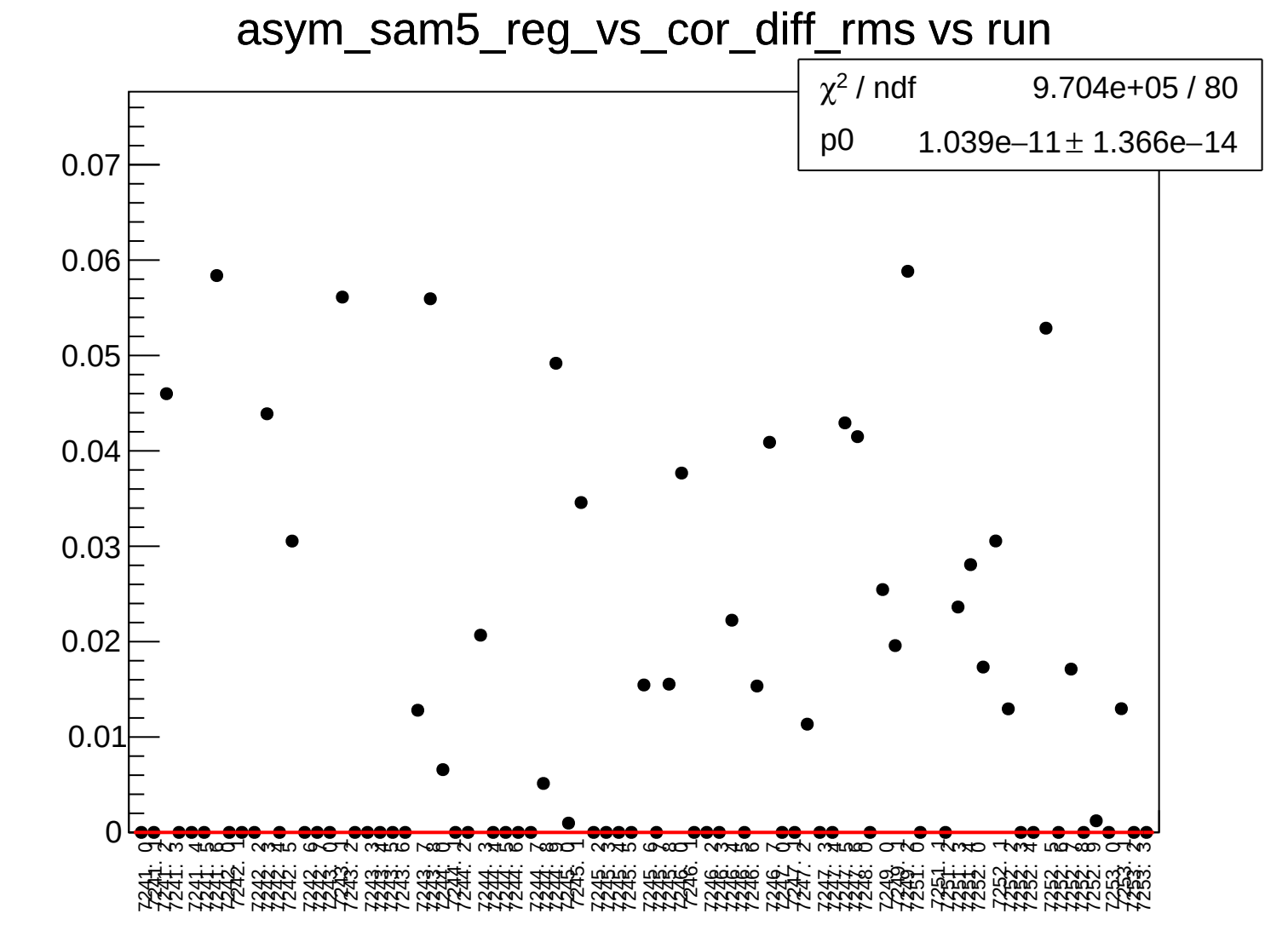

asym_sam5_mean vs run
χ² / ndf 59.15 / 80
p0 723.5 ± 1079
pull
Entries 81
Mean 2595
Std Dev 0

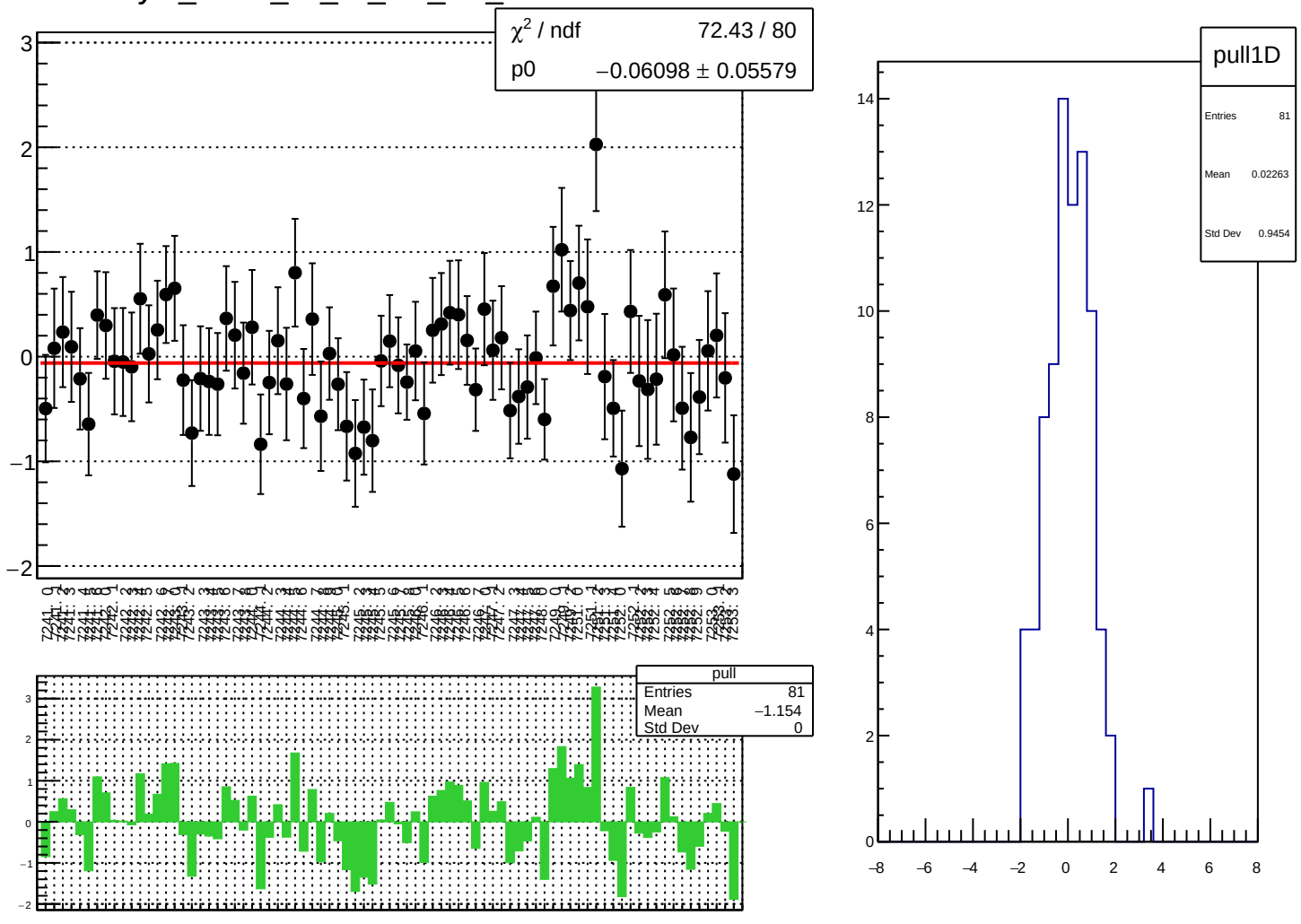

pull1D
Entries 81
Mean 0.0004044
Std Dev 0.8545

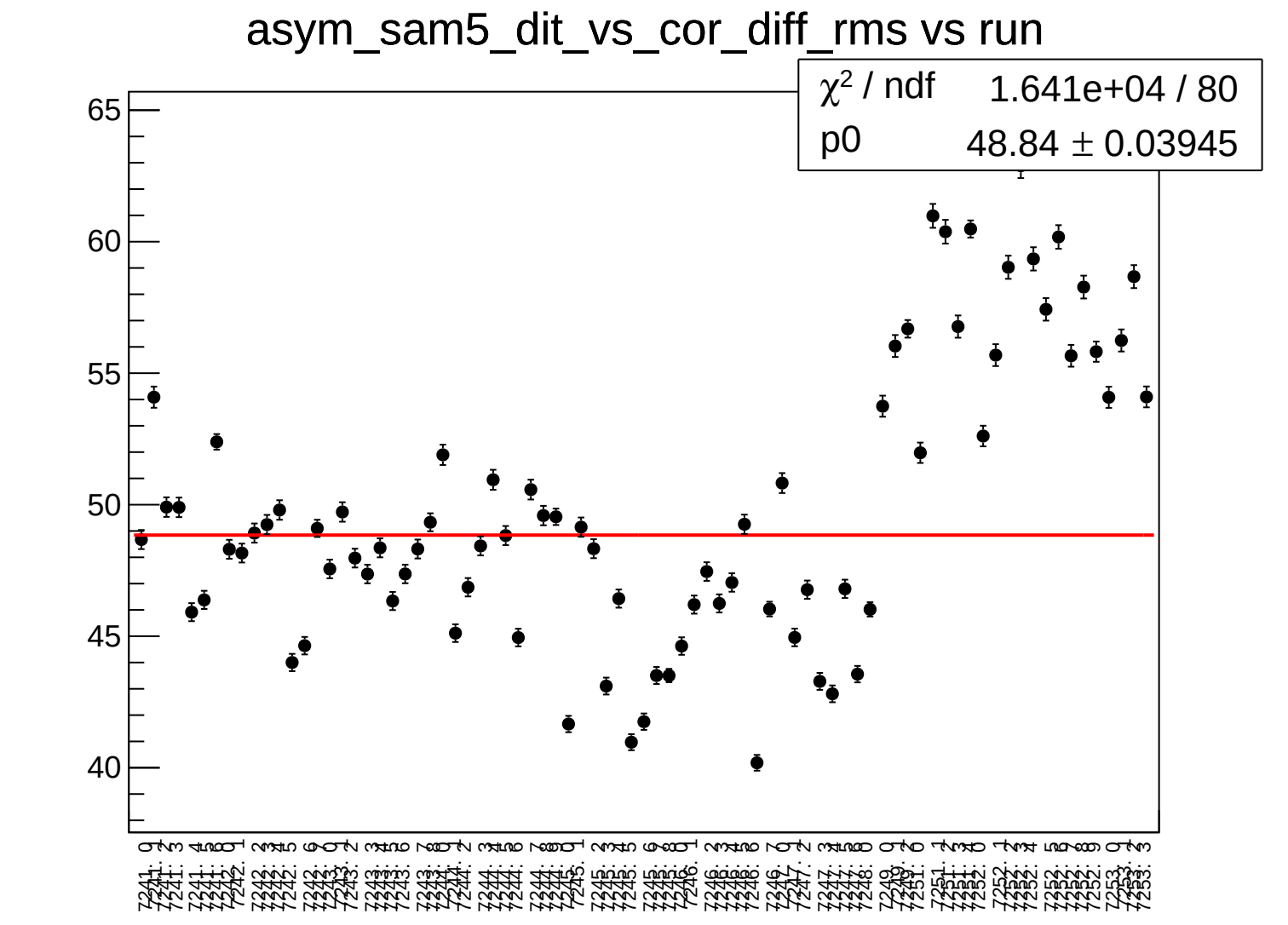

asym_sam5_rms vs run
χ² / ndf 4215 / 80
p0 948.1 ± 0.7628
1050
1000
950
900
850

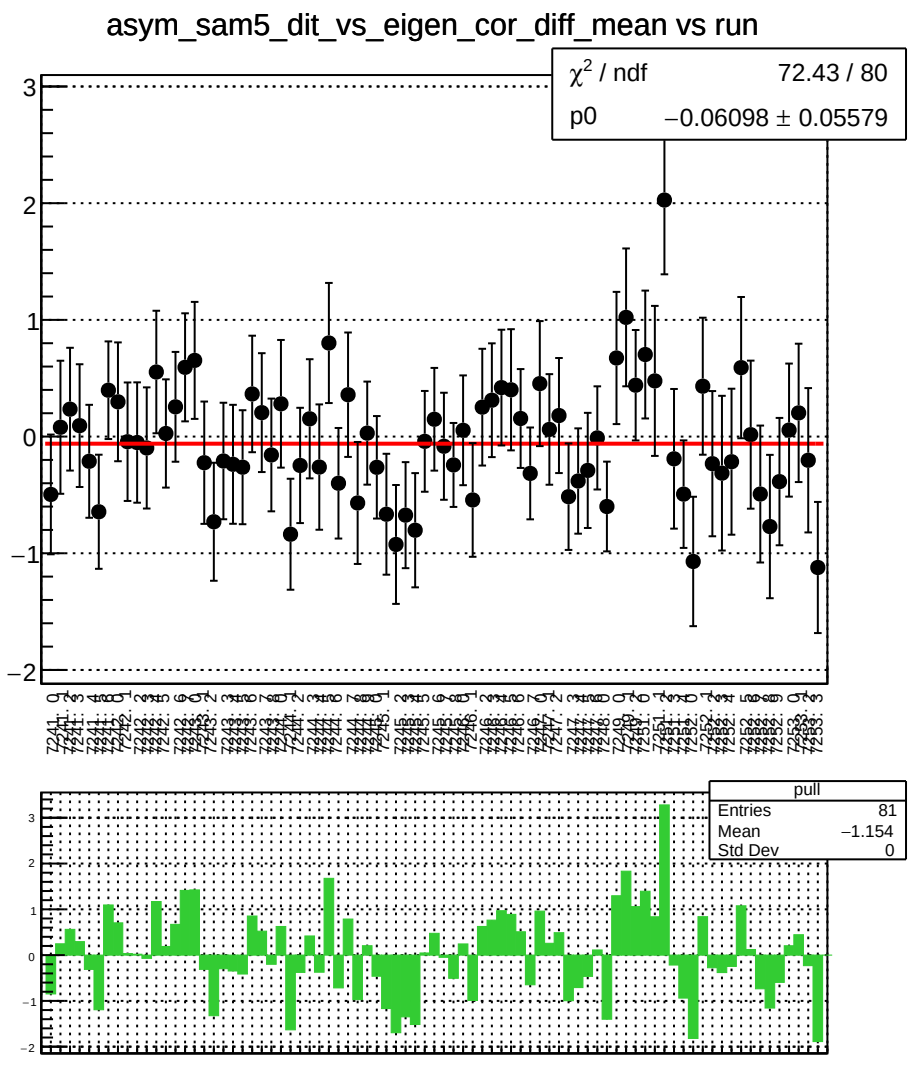

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 82.14 / 80
p0 3.148e−14 ± 1.931e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 81
Mean −278
Std Dev 0
2
1
0
−1
−2

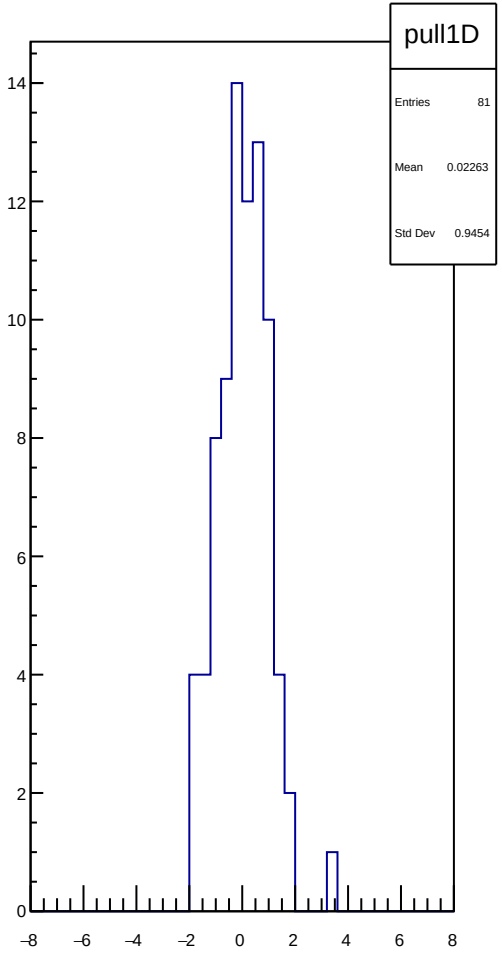

pull1D
Entries 81
Mean −0.003213
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

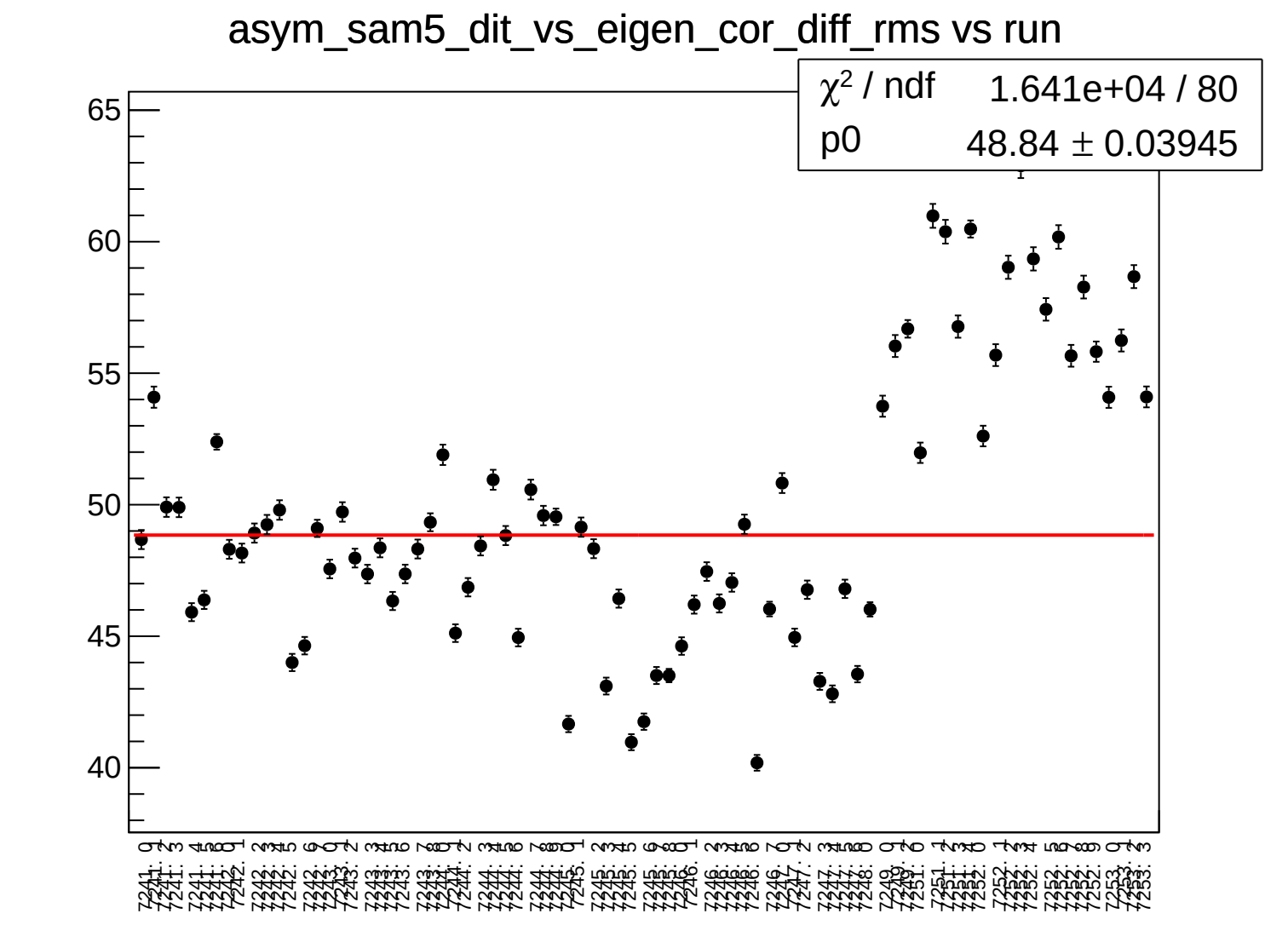

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 9.704e+05 / 80
p0 1.039e−11 ± 1.366e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

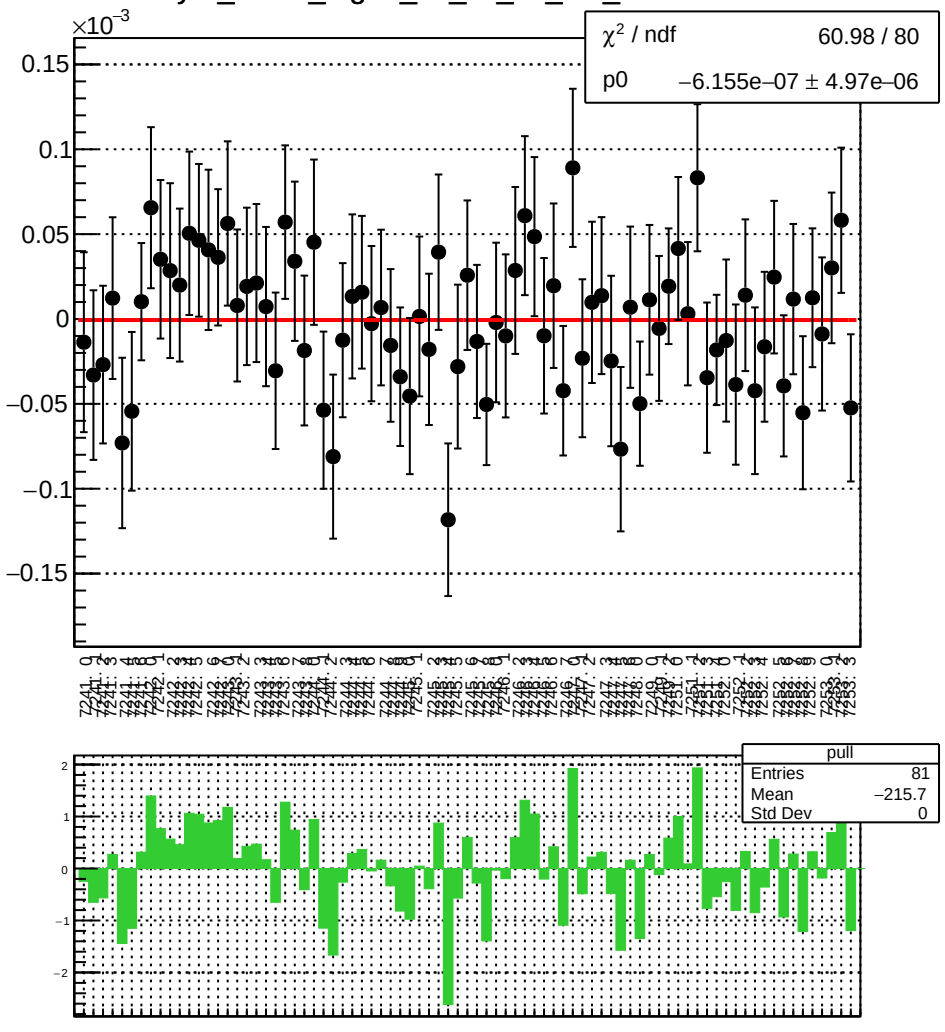

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 72.43 / 80
p0 −0.06098 ± 0.05579
pull
Entries 81
Mean −1.154
Std Dev 0
pull1D
Entries 81
Mean 0.02263
Std Dev 0.9454

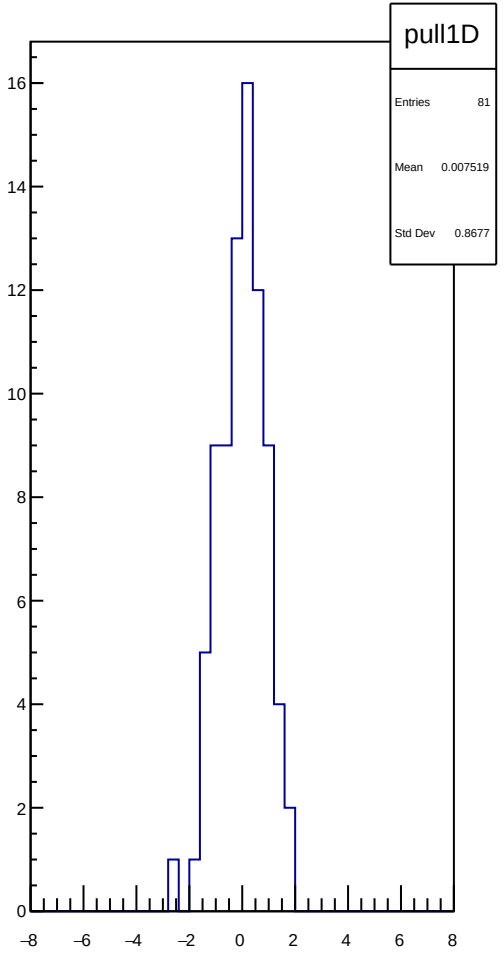

asym_sam5_dit_vs_cor_diff_rms vs run
χ² / ndf 1.641e+04 / 80
p0 48.84 ± 0.03945
65
60
55
50
45
40

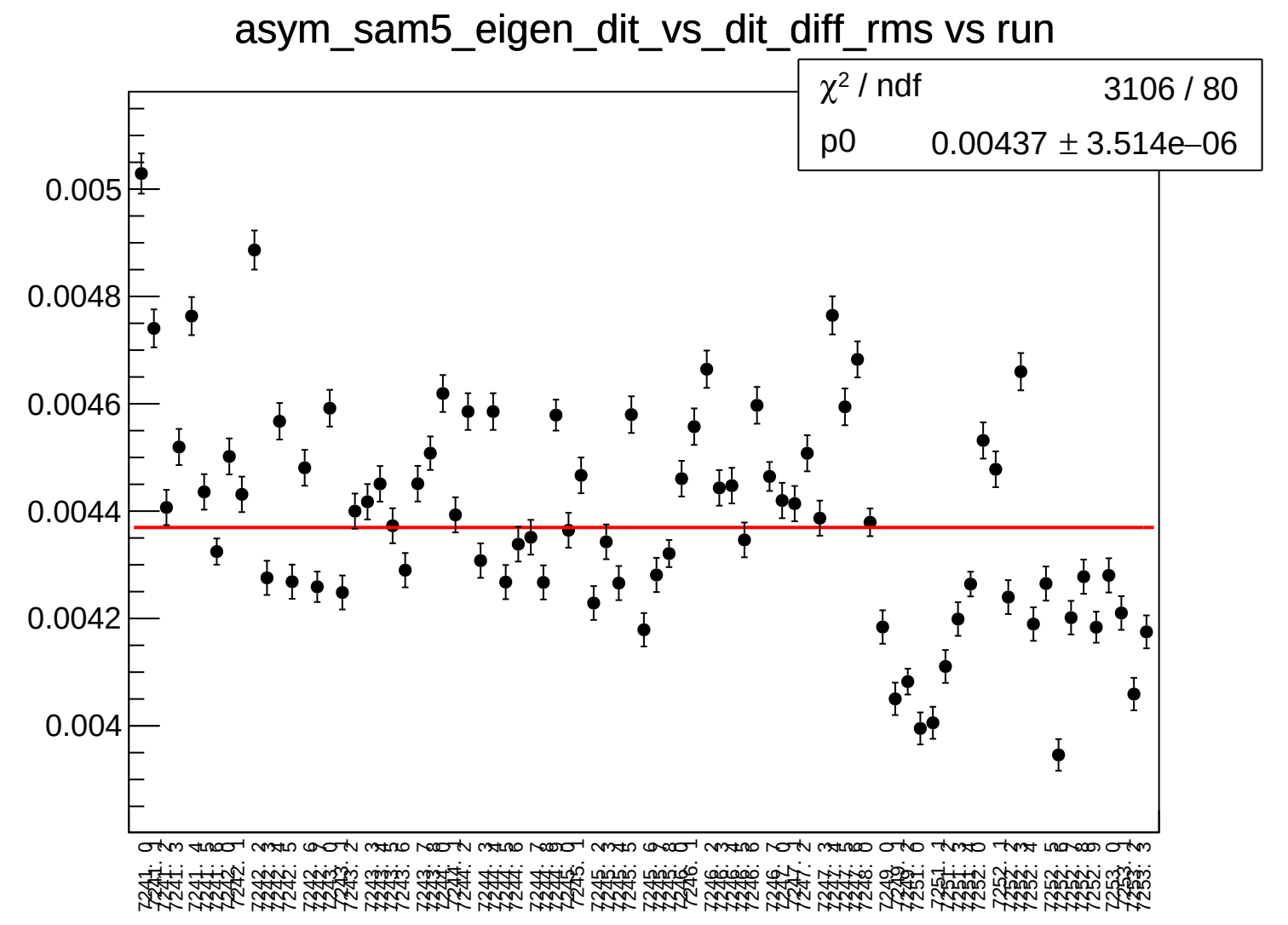

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.43 / 80
p0 −0.06098 ± 0.05579
pull
Entries 81
Mean −1.154
Std Dev 0

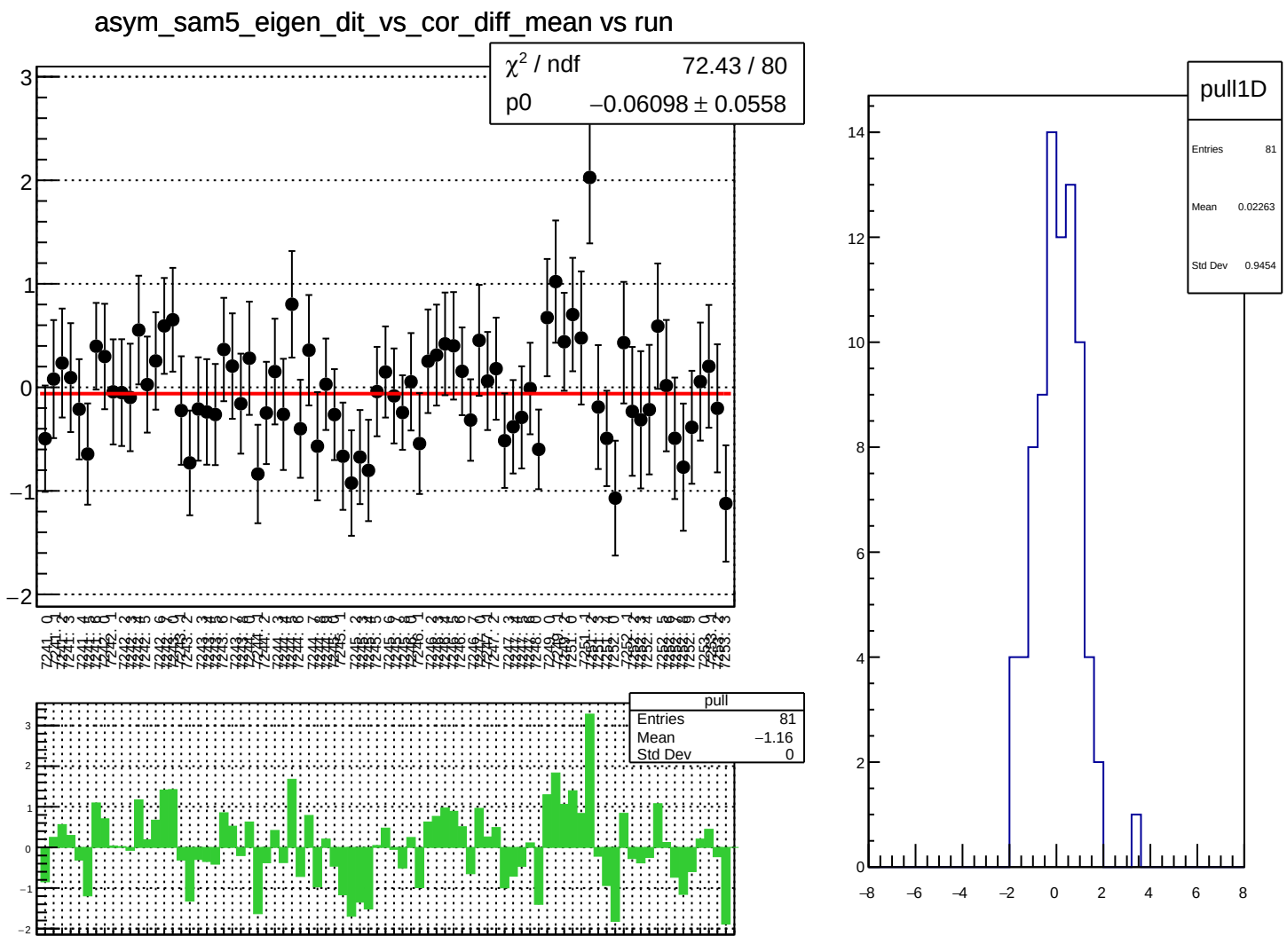

pull1D
Entries 81
Mean 0.02263
Std Dev 0.9454

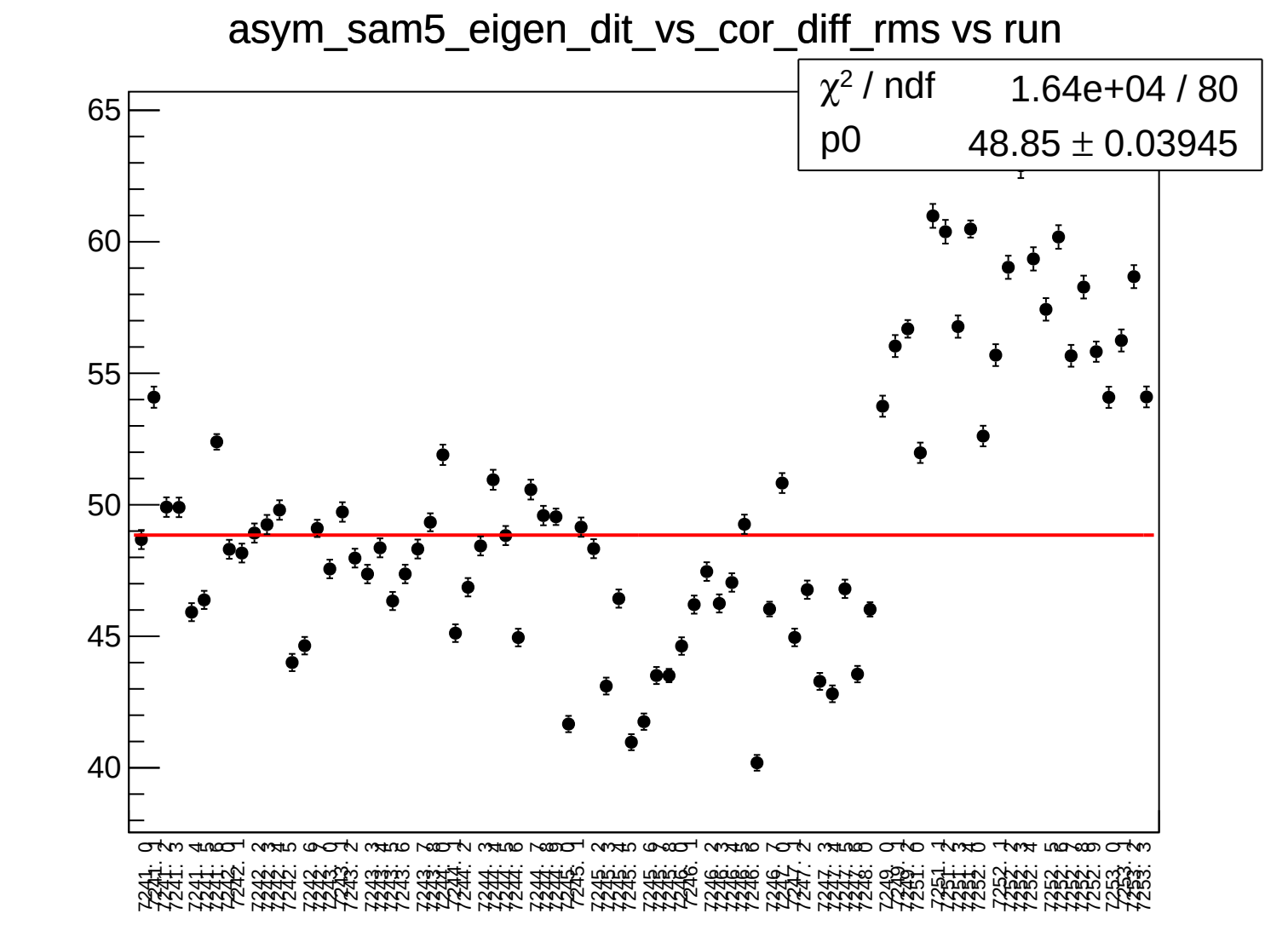

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.641e+04 / 80
p0 48.84 ± 0.03945
65
60
55
50
45
40

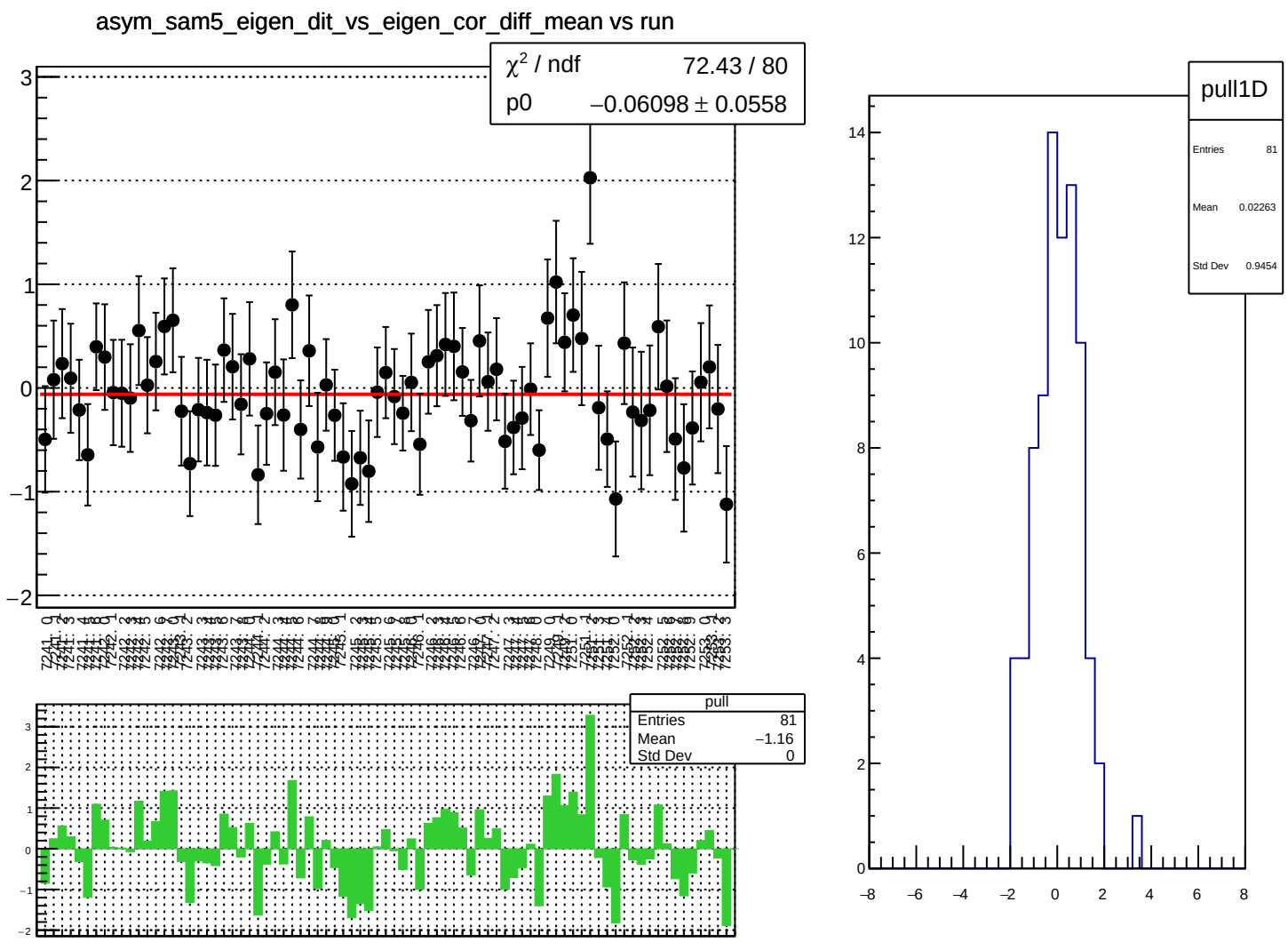

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 60.98 / 80
p0 −6.155e−07 ± 4.97e−06
pull
Entries 81
Mean −215.7
Std Dev 0

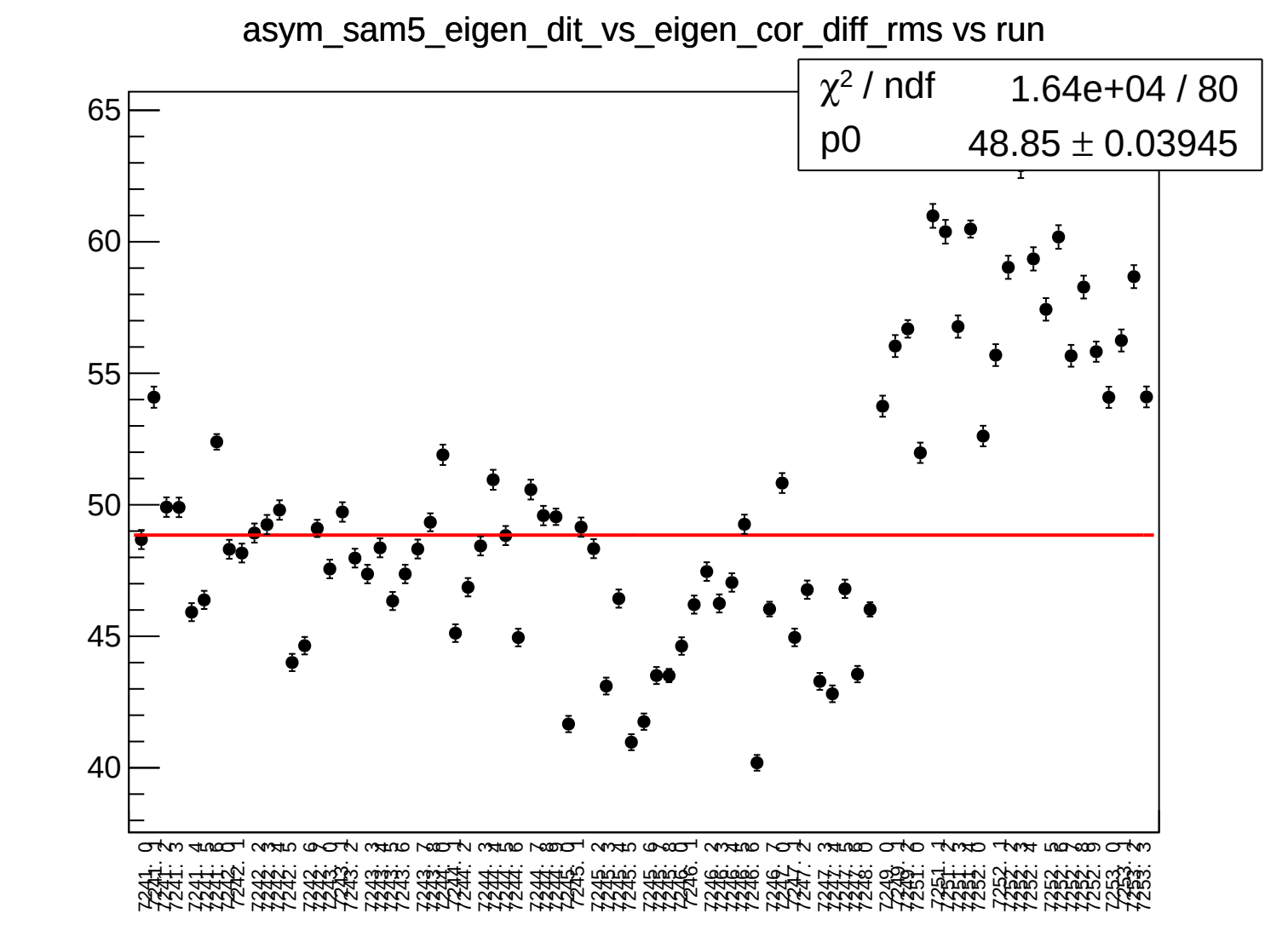

pull1D
Entries 81
Mean 0.007519
Std Dev 0.8677

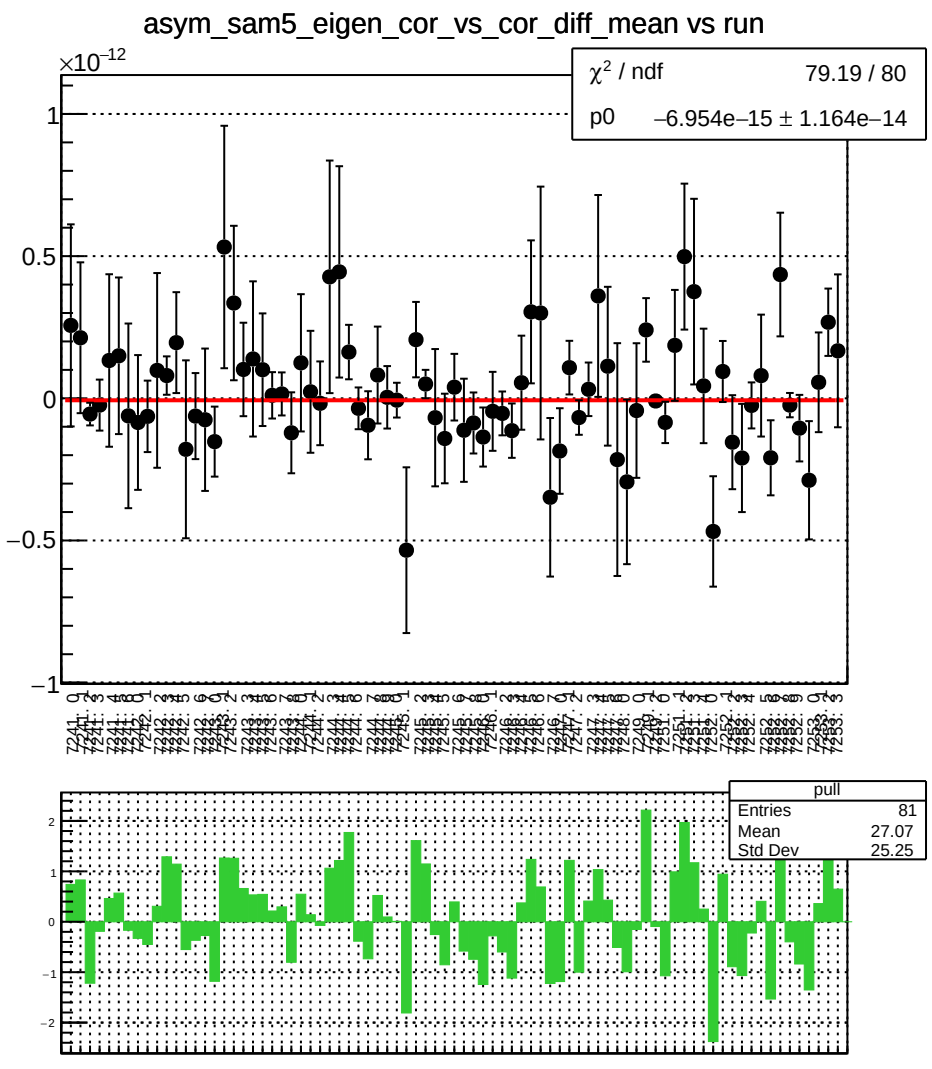

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3106 / 80
p0 0.00437 ± 3.514e–06
0.005
0.0048
0.0046
0.0044
0.0042
0.004

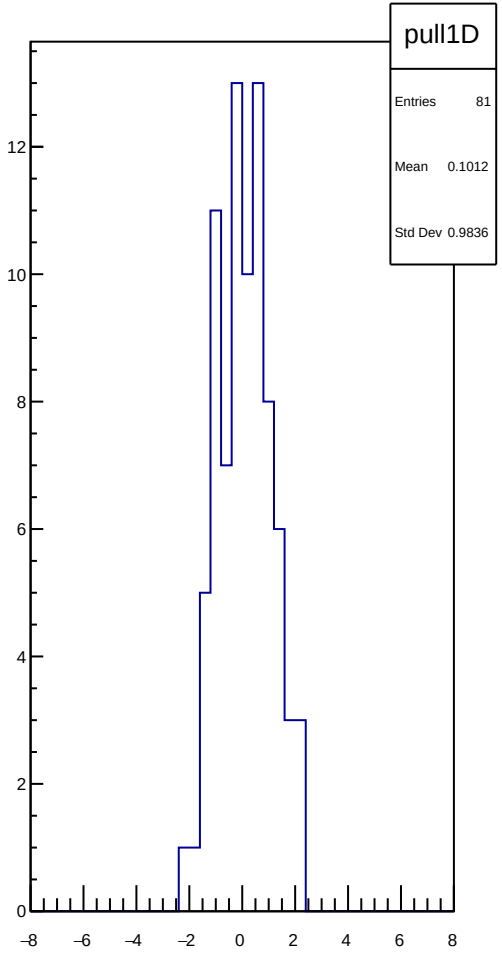

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.43 / 80
p0 −0.06098 ± 0.0558
pull
Entries 81
Mean −1.16
Std Dev 0
pull1D
Entries 81
Mean 0.02263
Std Dev 0.9454

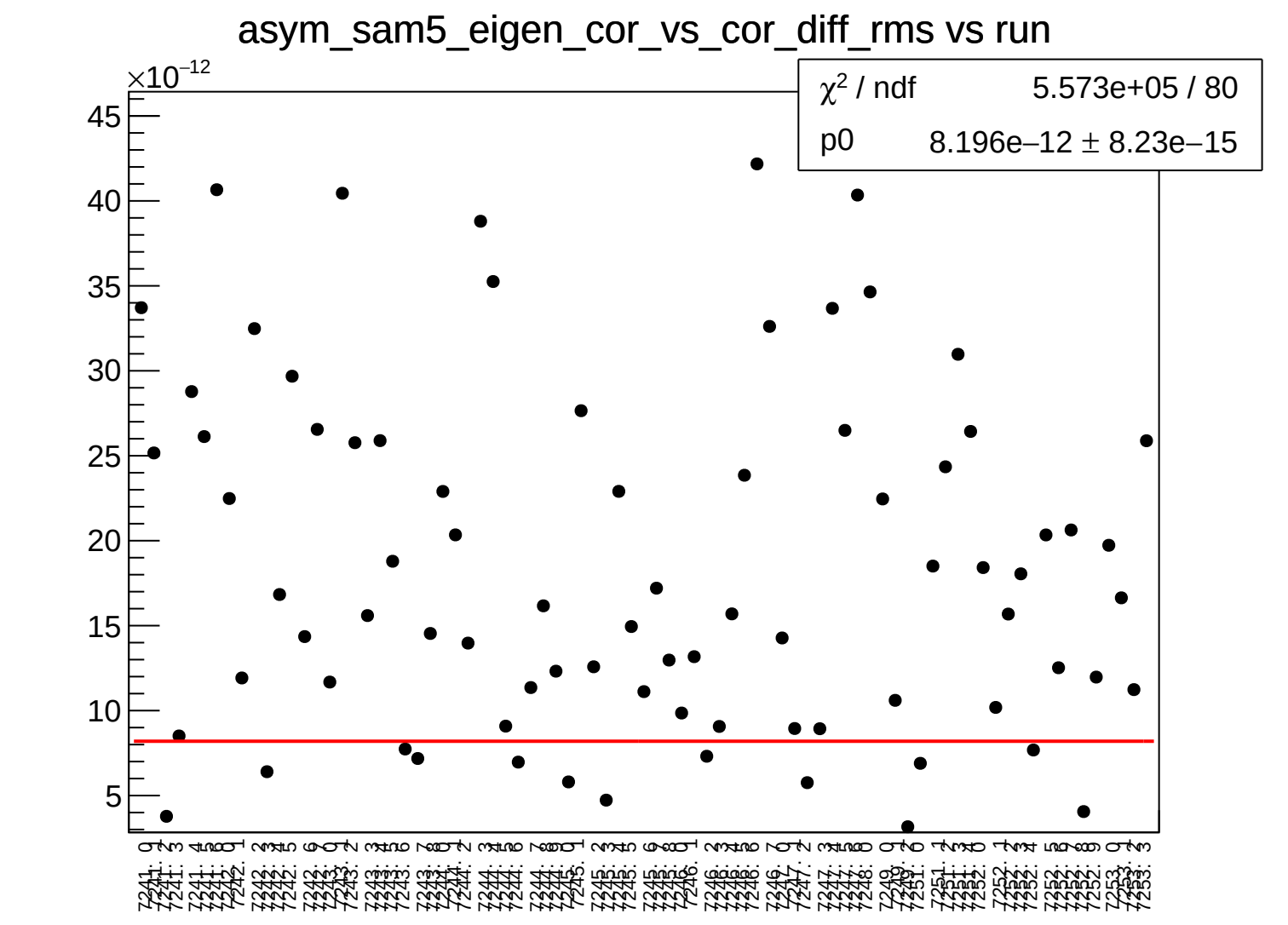

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.64e+04 / 80
p0 48.85 ± 0.03945
65
60
55
50
45
40

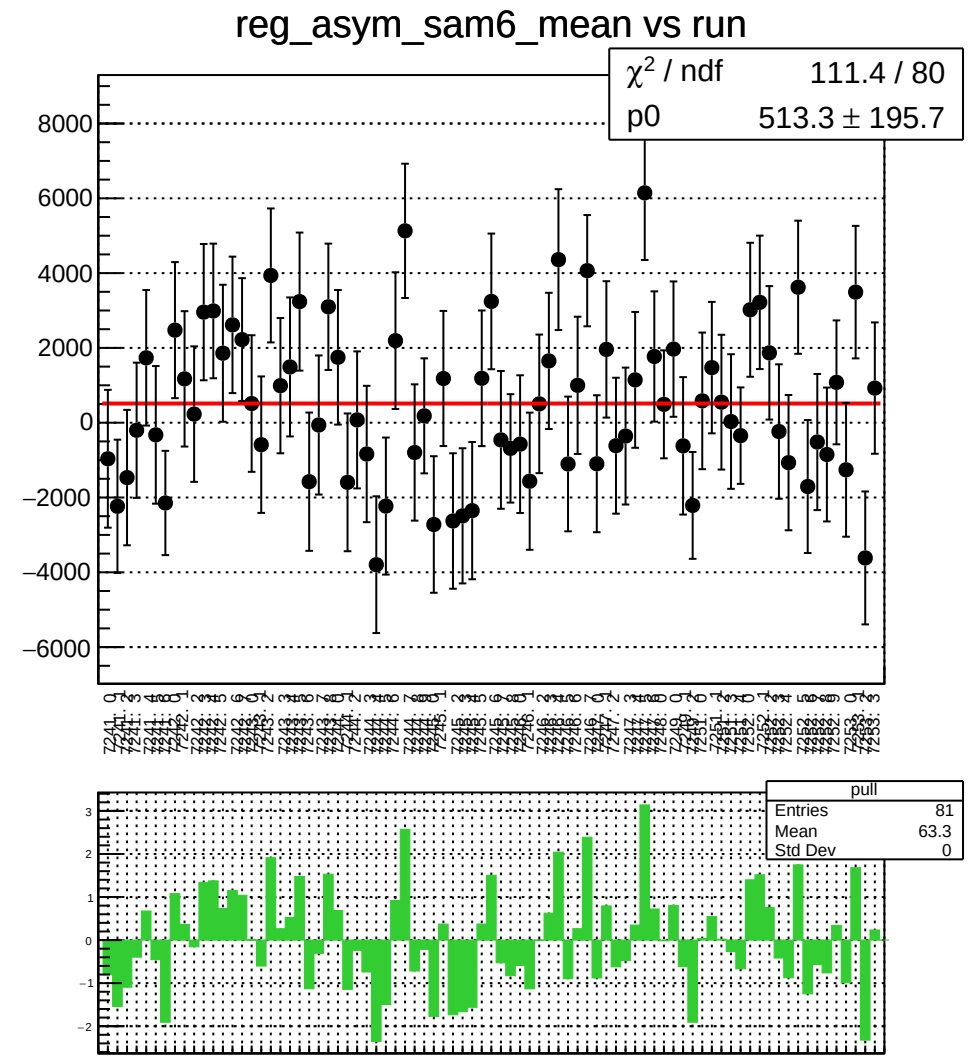

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.43 / 80
p0 −0.06098 ± 0.0558
pull
Entries 81
Mean −1.16
Std Dev 0
pull1D
Entries 81
Mean 0.02263
Std Dev 0.9454

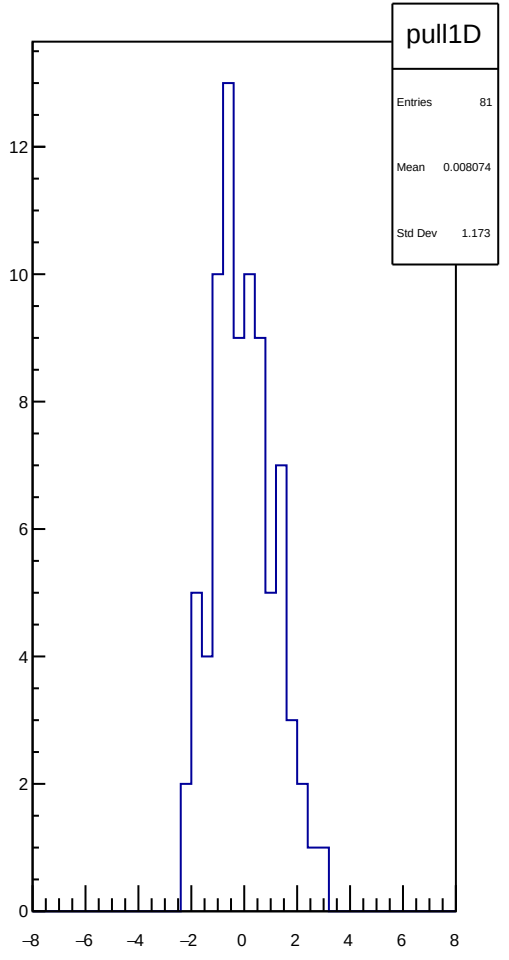

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.64e+04 / 80
p0 48.85 ± 0.03945
65
60
55
50
45
40

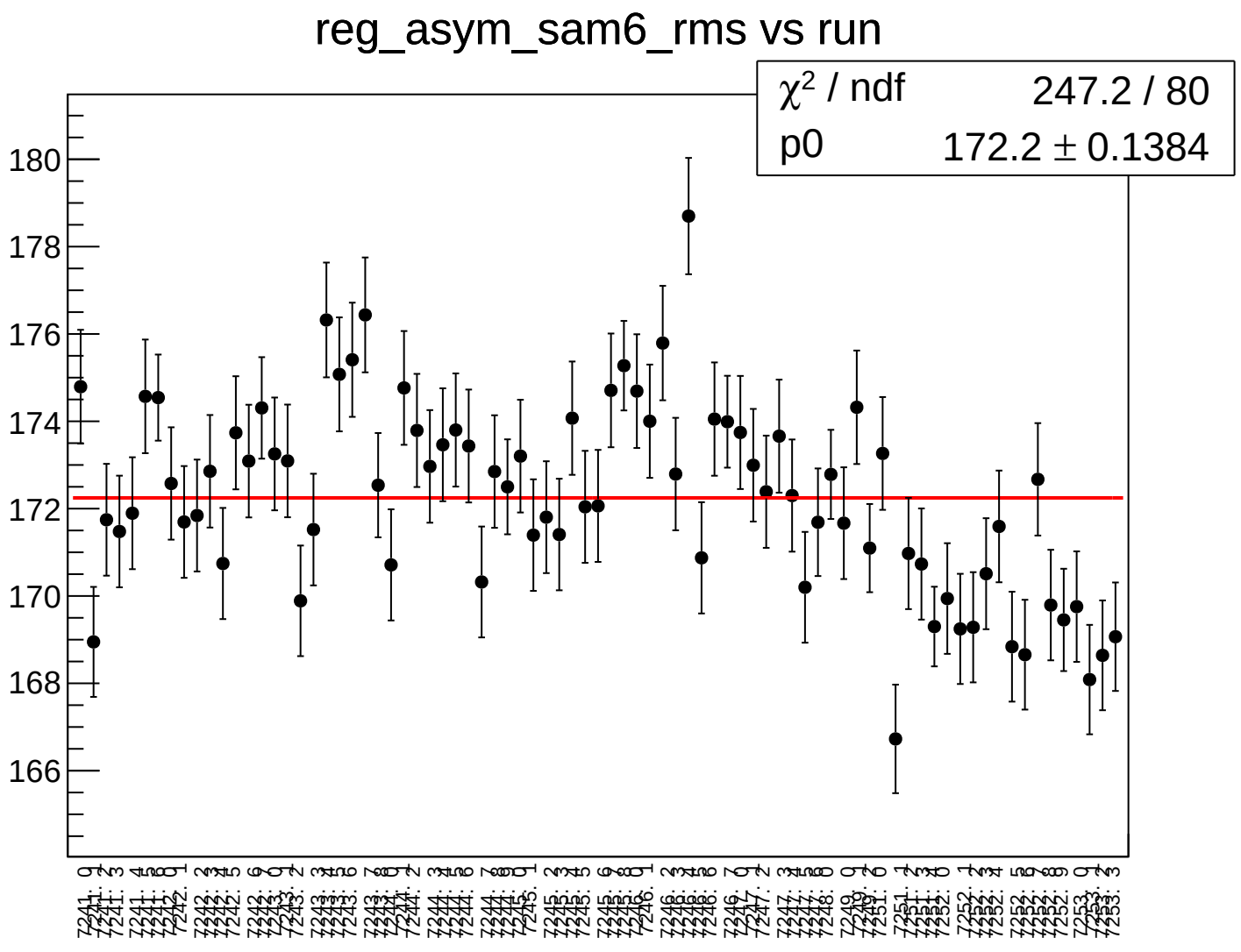

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.19 / 80
p0 −6.954e−15 ± 1.164e−14
pull
Entries 81
Mean 27.07
Std Dev 25.25

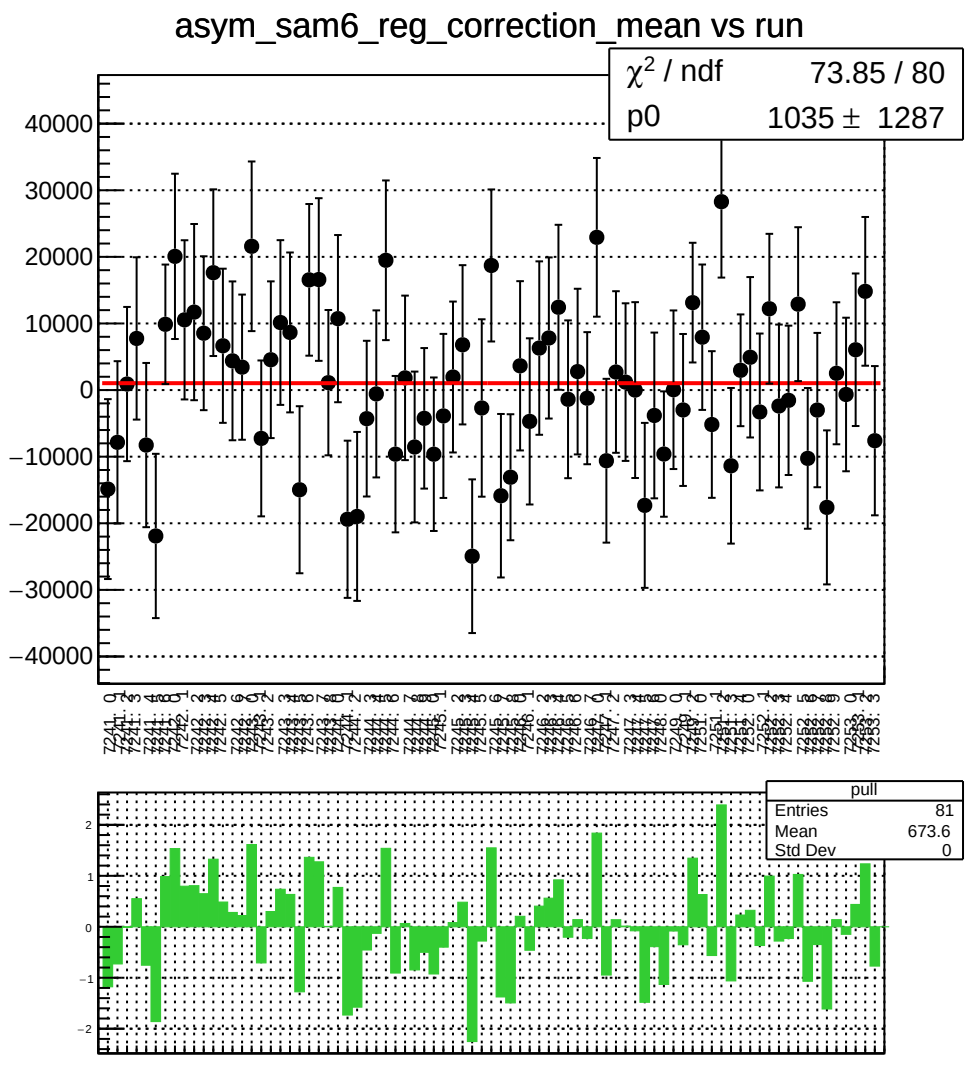

pull1D
Entries 81
Mean 0.1012
Std Dev 0.9836

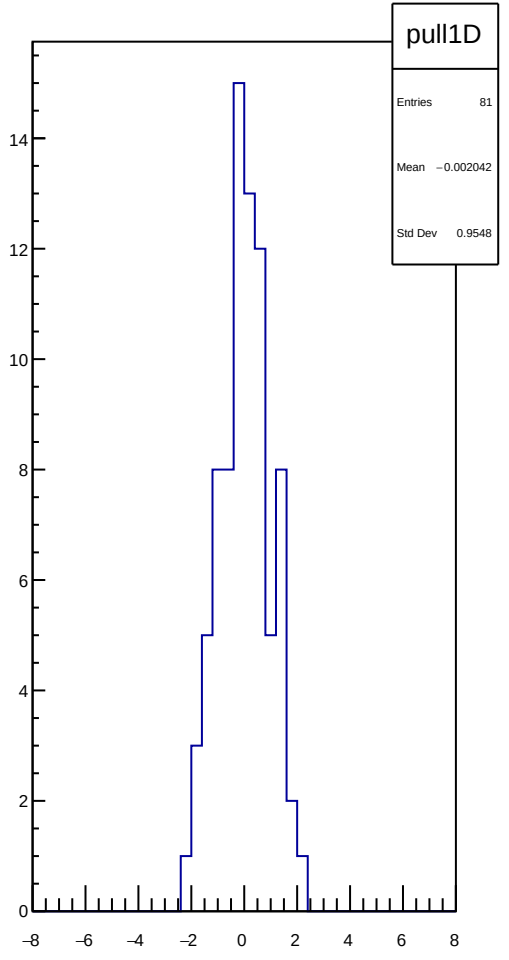

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.573e+05 / 80
p0 8.196e−12 ± 8.23e−15
45
40
35
30
25
20
15
10
5

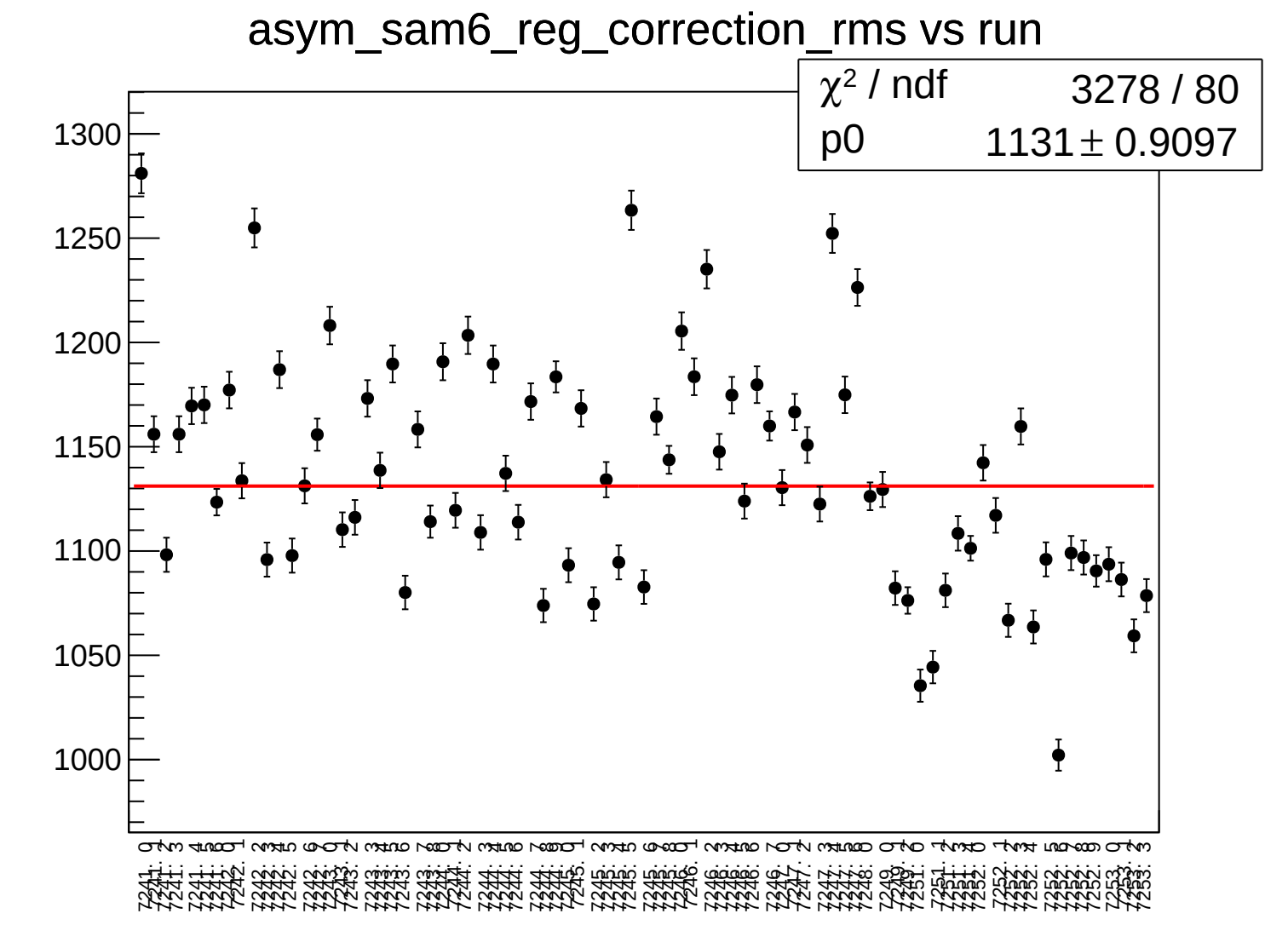

reg_asym_sam6_mean vs run
χ^2 / ndf 111.4 / 80
p0 513.3 ± 195.7
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 81
Mean 63.3
Std Dev 0
3
2
1
0
−1
−2

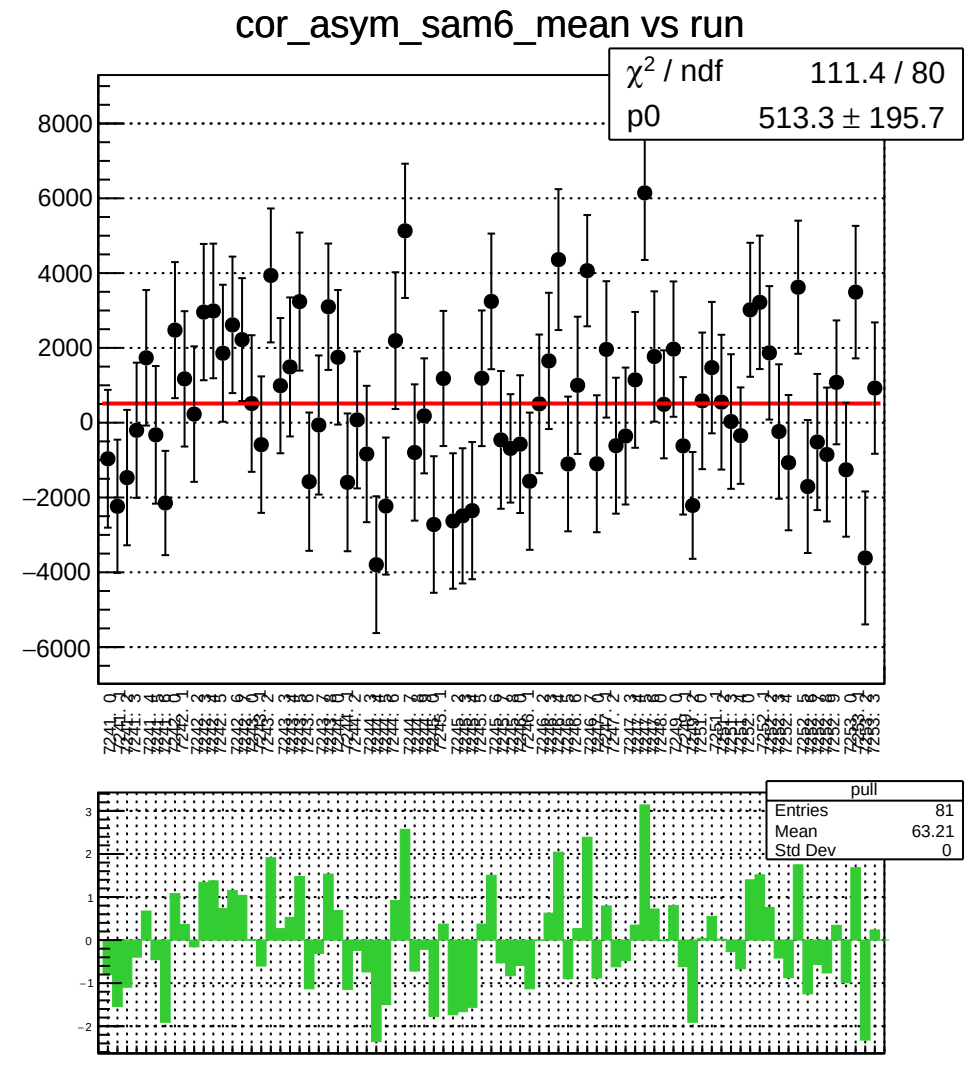

pull1D
Entries 81
Mean 0.008074
Std Dev 1.173
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

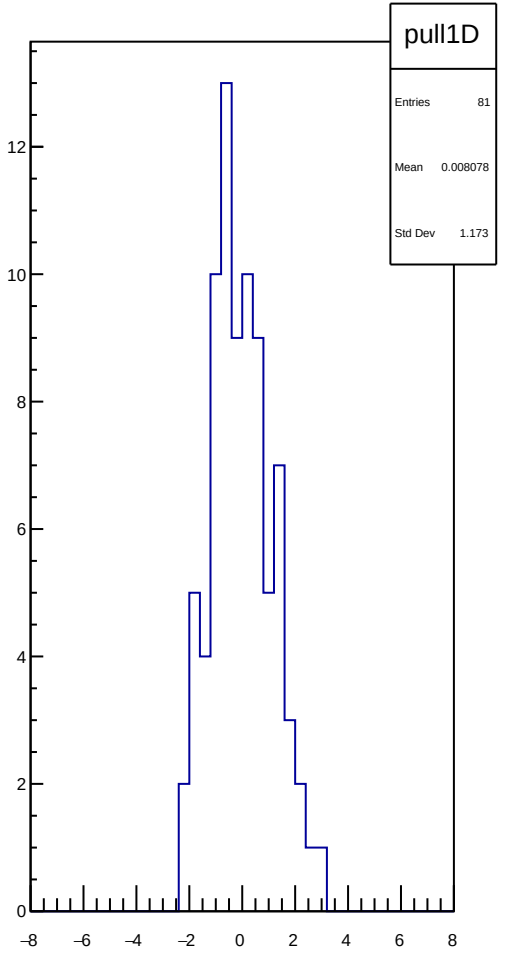

reg_asym_sam6_rms vs run
χ² / ndf 247.2 / 80
p0 172.2 ± 0.1384
180
178
176
174
172
170
168
166

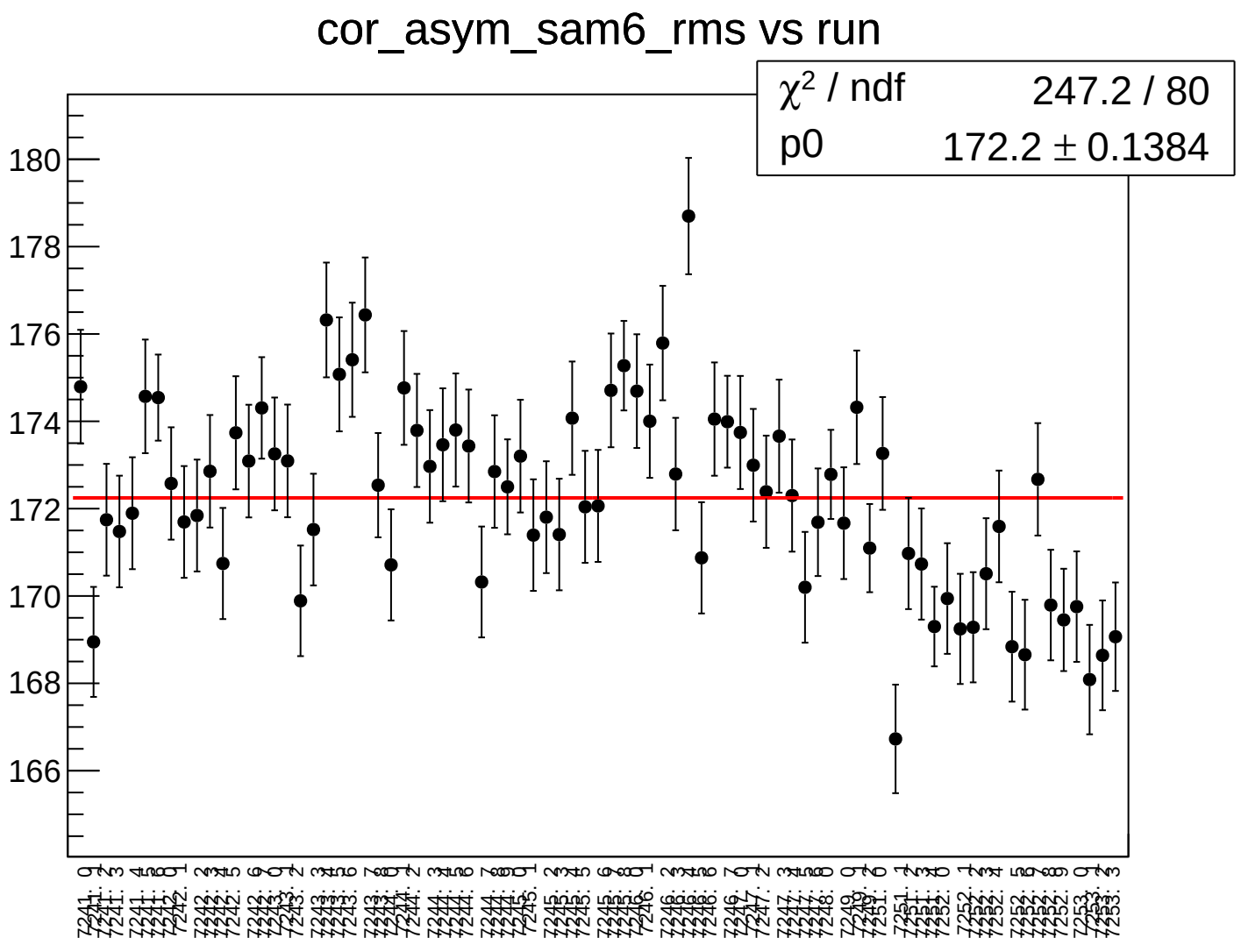

asym_sam6_reg_correction_mean vs run
χ² / ndf 73.85 / 80
p0 1035 ± 1287
pull
Entries 81
Mean 673.6
Std Dev 0

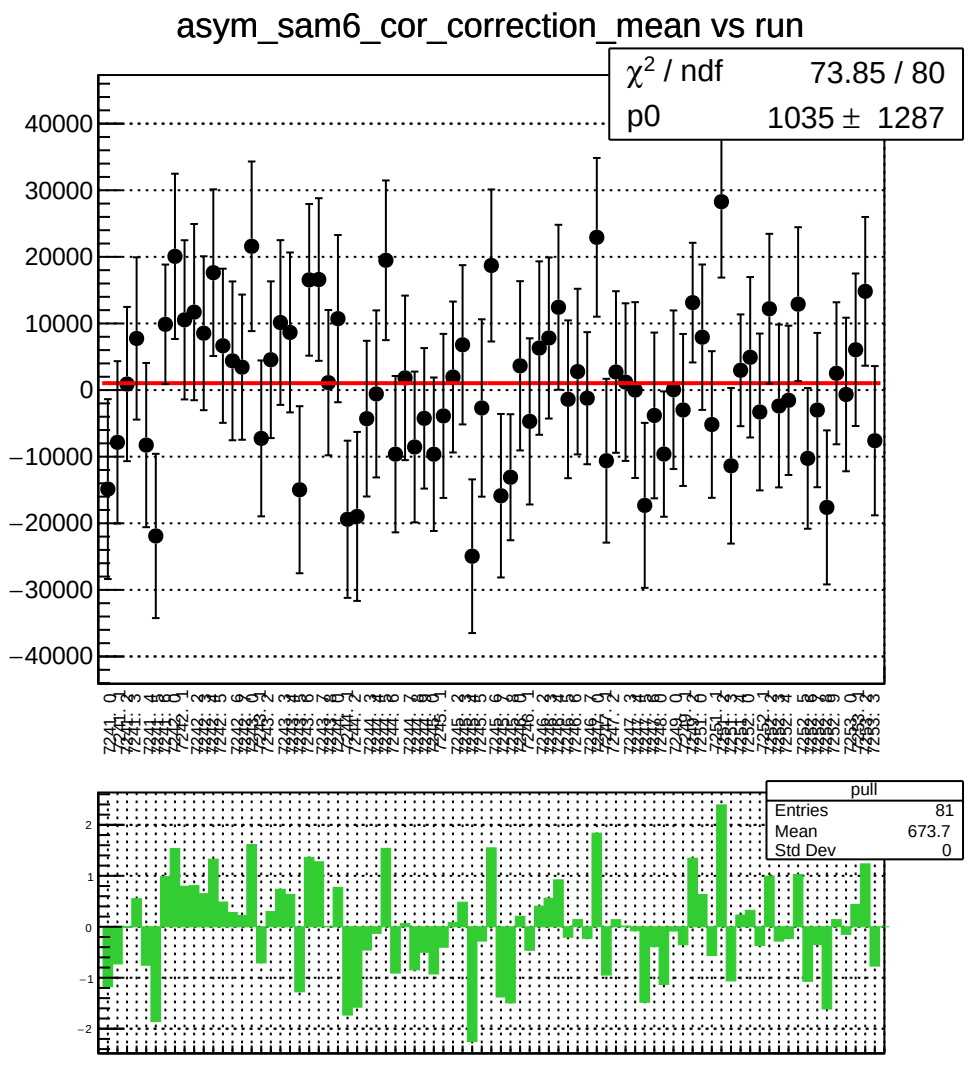

pull1D
Entries 81
Mean −0.002042
Std Dev 0.9548

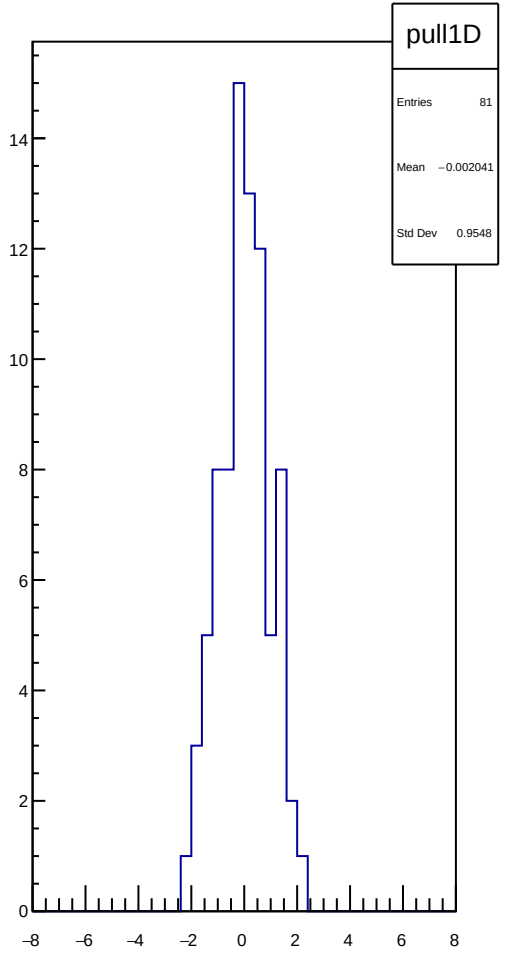

asym_sam6_reg_correction_rms vs run
χ² / ndf 3278 / 80
p0 1131 ± 0.9097
1300
1250
1200
1150
1100
1050
1000

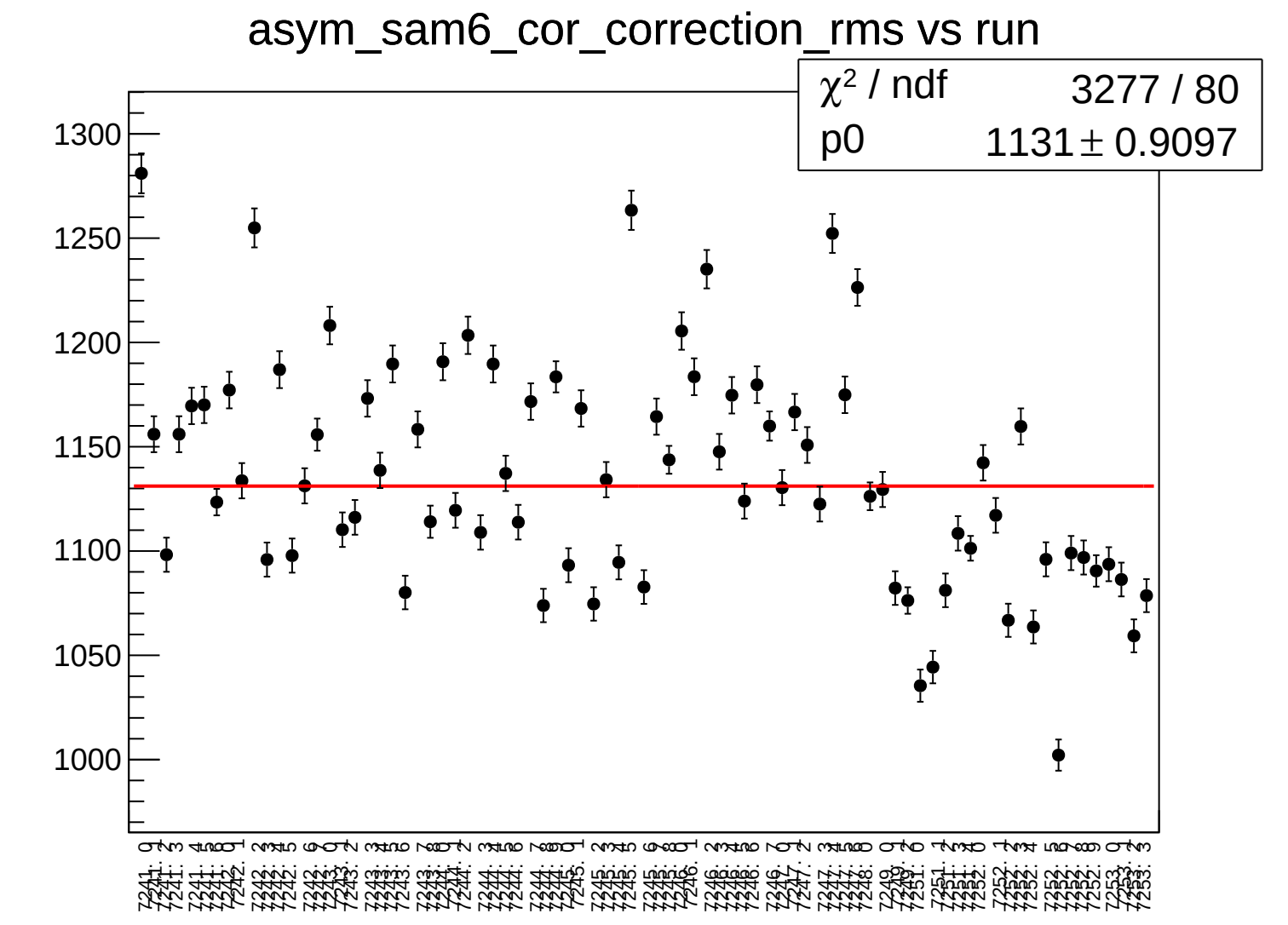

cor_asym_sam6_mean vs run
χ² / ndf 111.4 / 80
p0 513.3 ± 195.7
pull
Entries 81
Mean 63.21
Std Dev 0

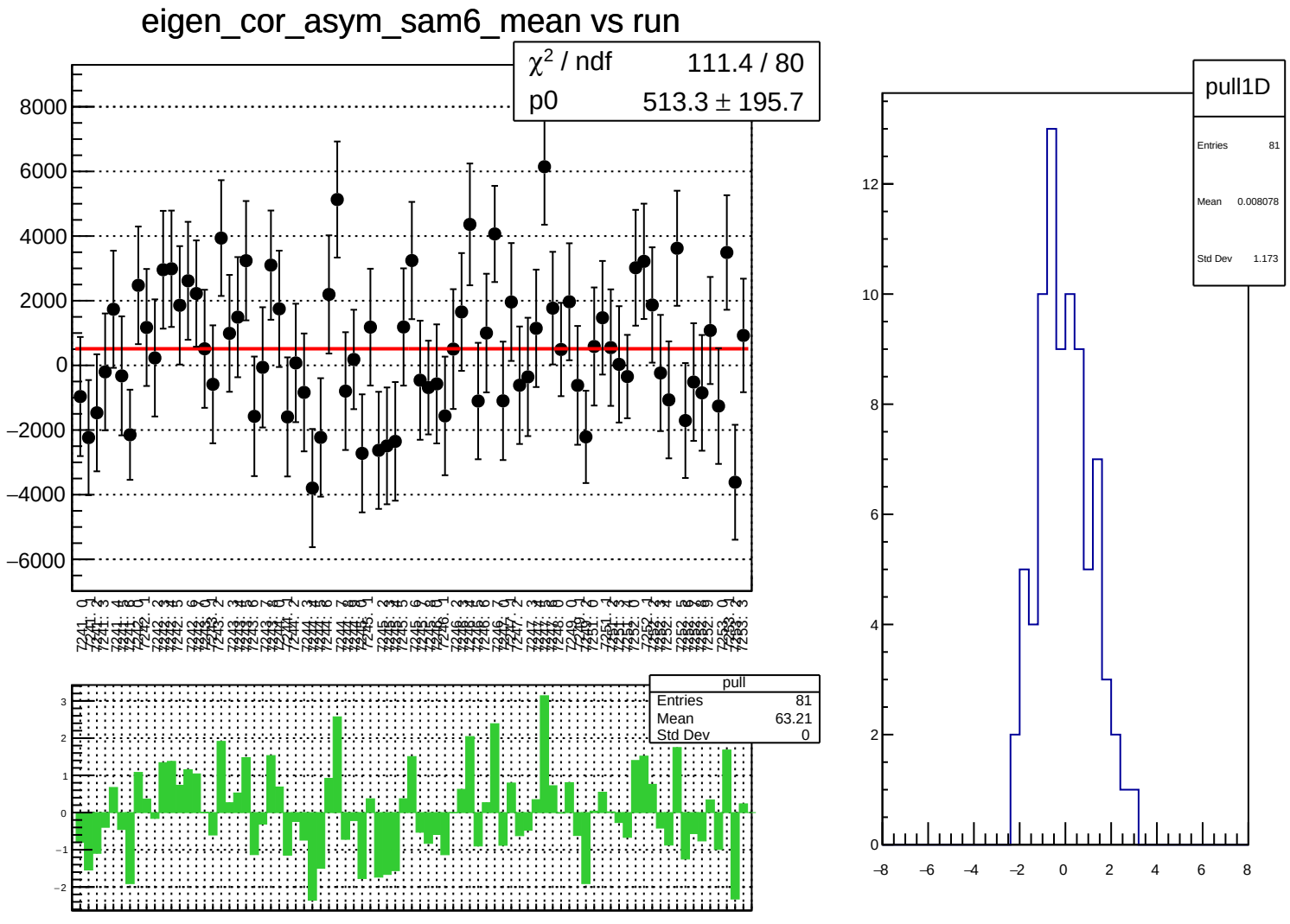

pull1D
Entries 81
Mean 0.008078
Std Dev 1.173

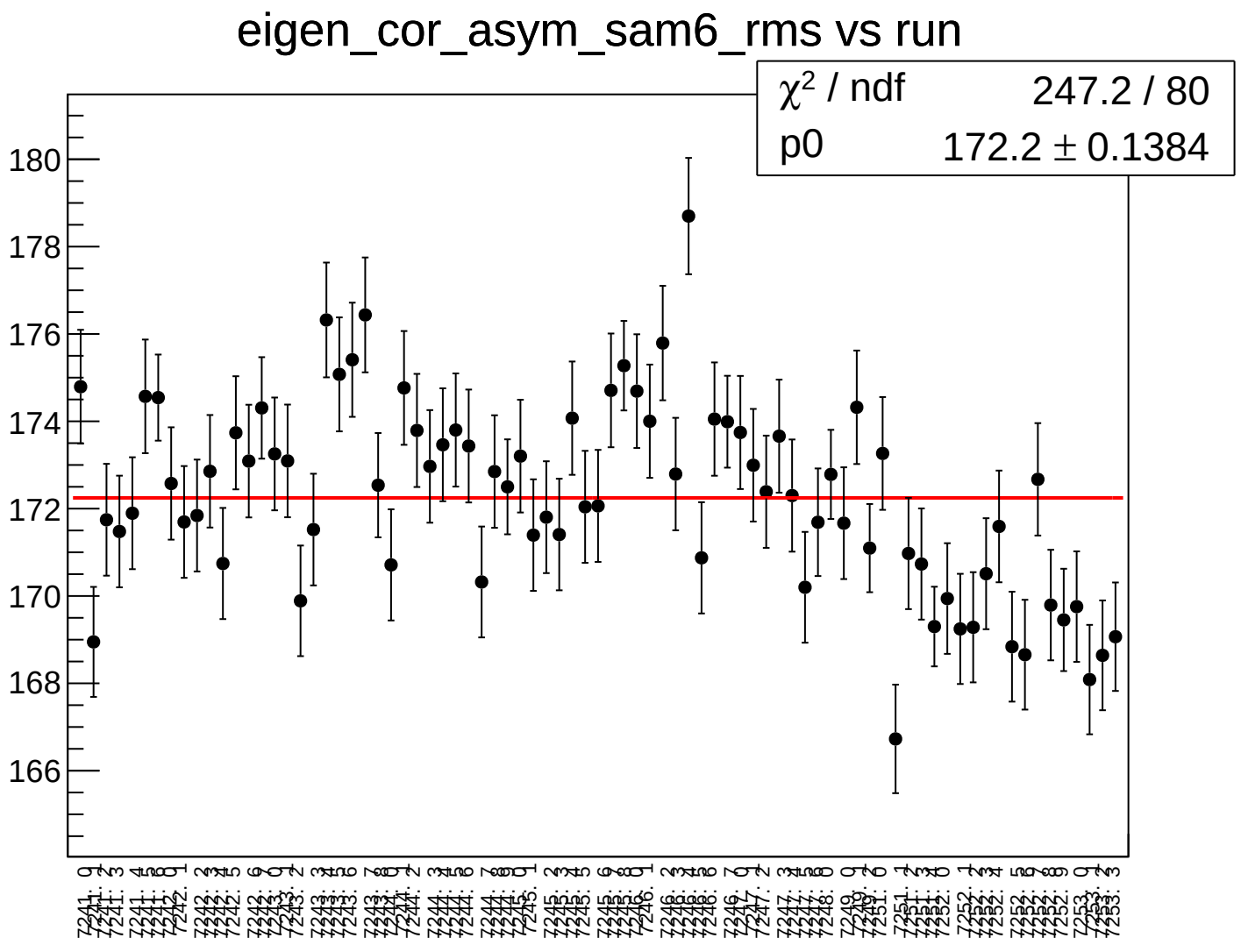

cor_asym_sam6_rms vs run
χ² / ndf 247.2 / 80
p0 172.2 ± 0.1384
180
178
176
174
172
170
168
166

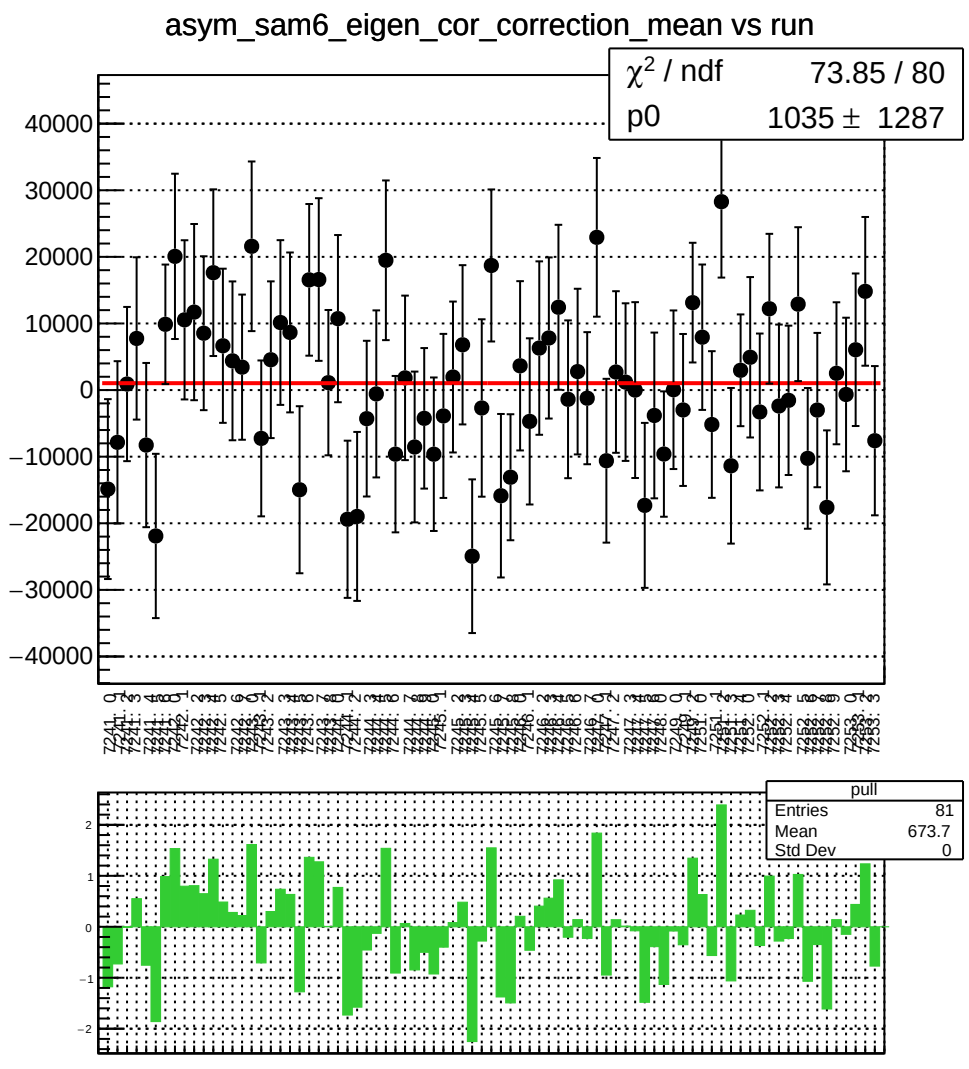

asym_sam6_cor_correction_mean vs run
χ² / ndf 73.85 / 80
p0 1035 ± 1287
pull
Entries 81
Mean 673.7
Std Dev 0

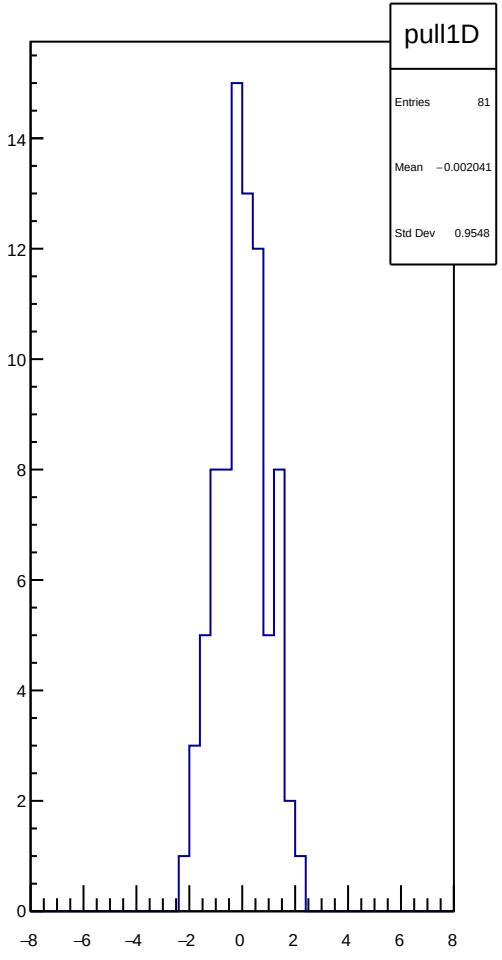

pull1D
Entries 81
Mean −0.002041
Std Dev 0.9548

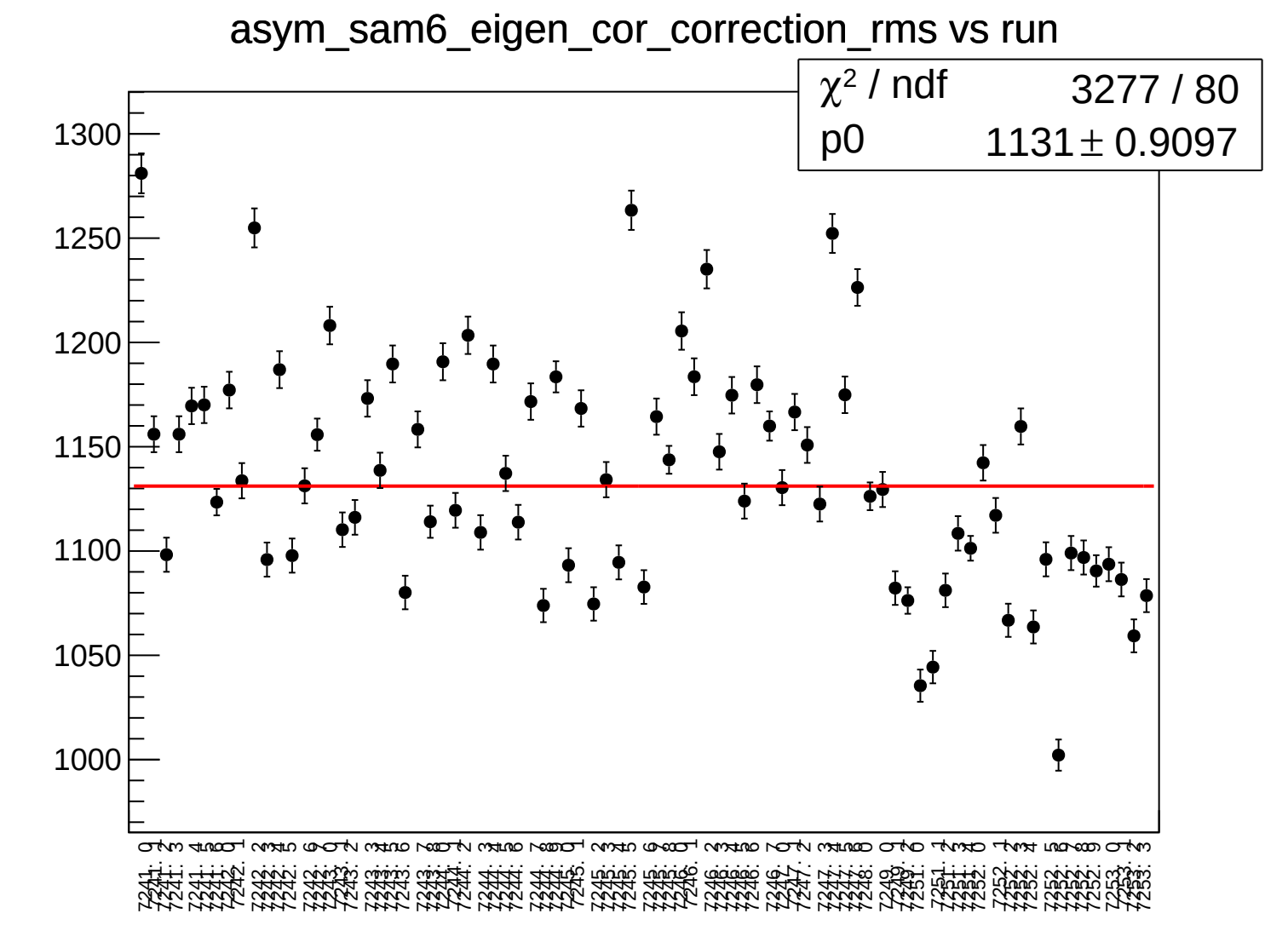

asym_sam6_cor_correction_rms vs run
χ² / ndf 3277 / 80
p0 1131 ± 0.9097
1300
1250
1200
1150
1100
1050
1000

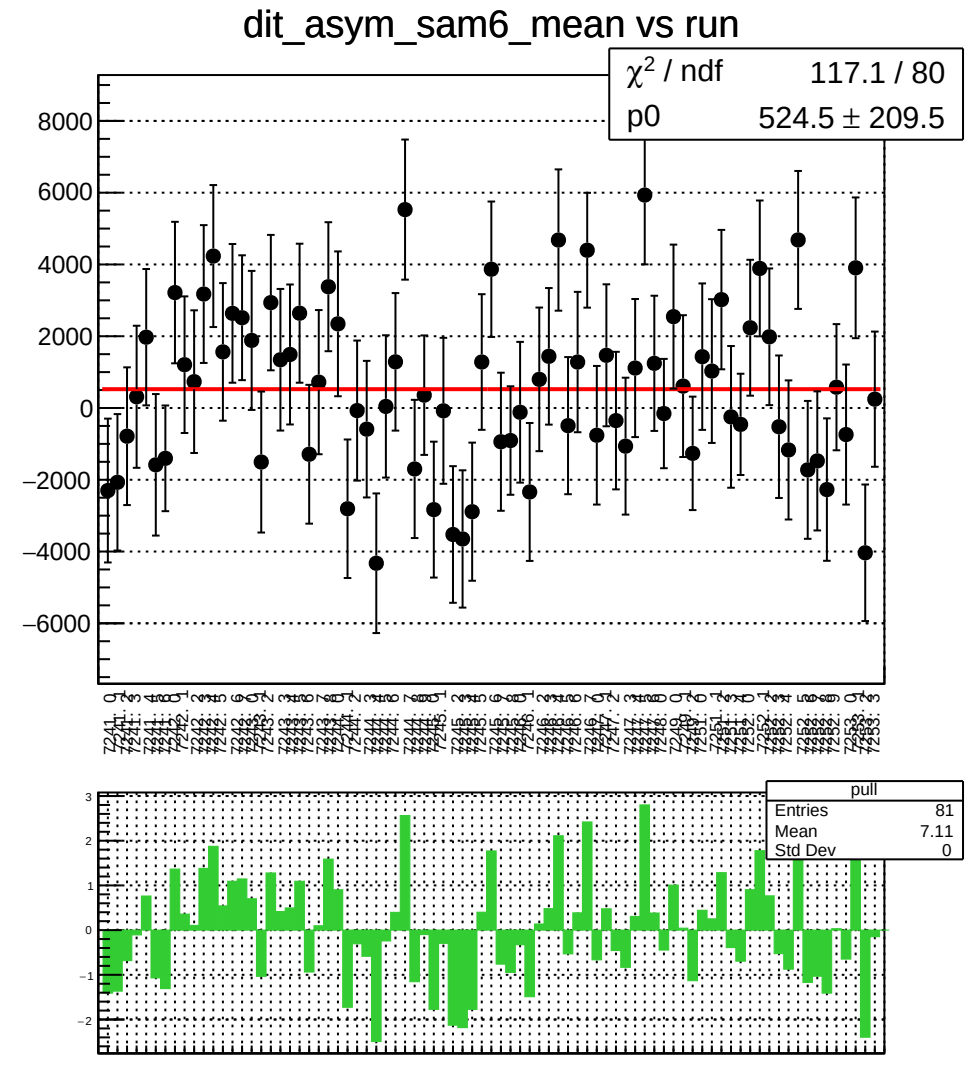

eigen_cor_asym_sam6_mean vs run
χ² / ndf 111.4 / 80
p0 513.3 ± 195.7
pull
Entries 81
Mean 63.21
Std Dev 0
pull1D
Entries 81
Mean 0.008078
Std Dev 1.173

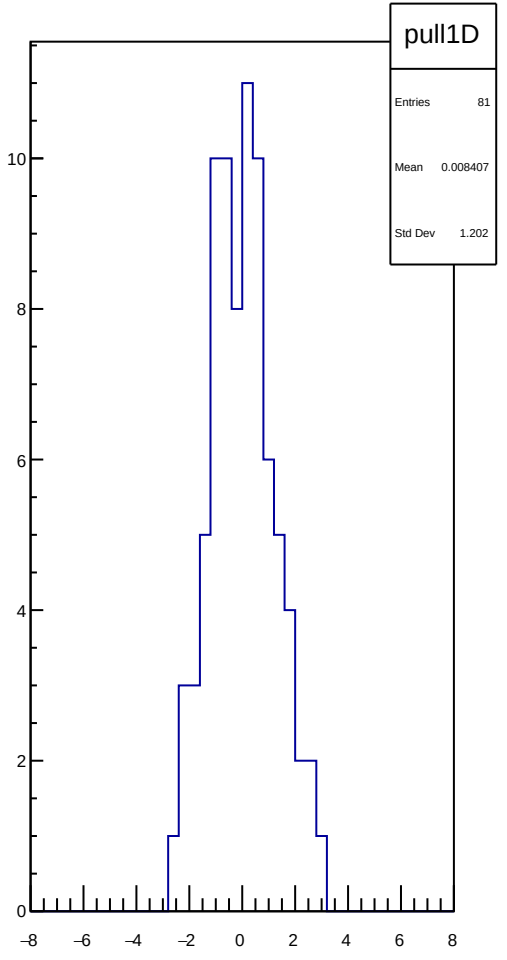

eigen_cor_asym_sam6_rms vs run
χ² / ndf 247.2 / 80
p0 172.2 ± 0.1384
180
178
176
174
172
170
168
166

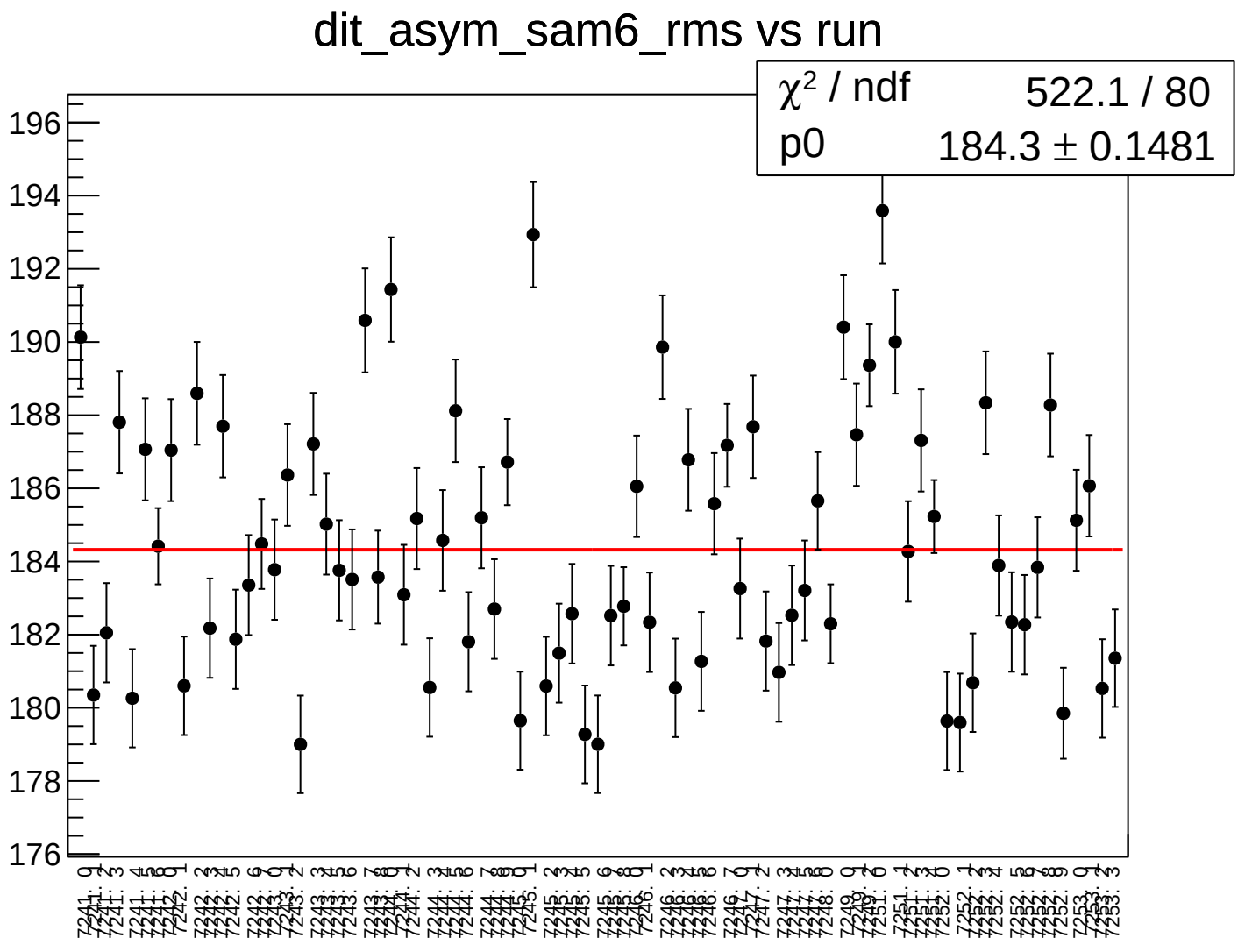

asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 73.85 / 80
p0 1035 ± 1287
pull
Entries 81
Mean 673.7
Std Dev 0

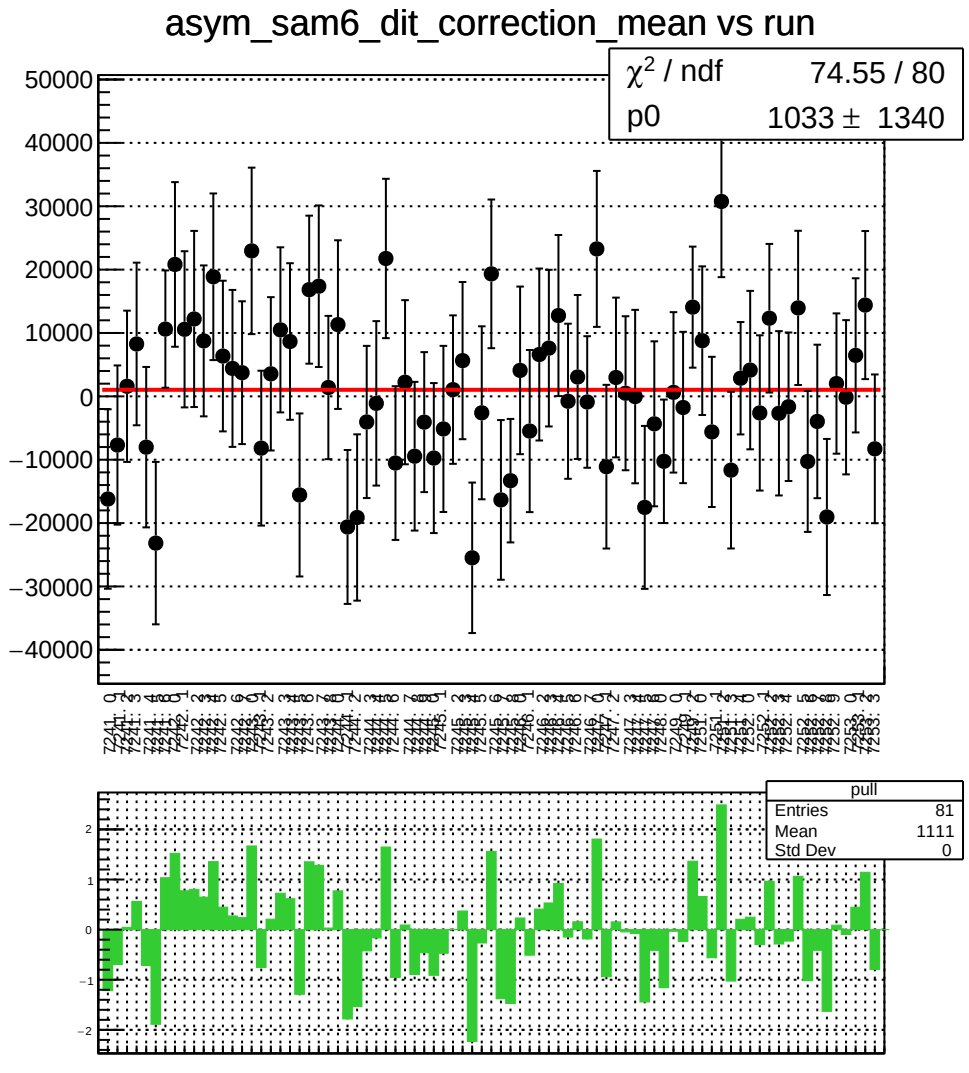

pull1D
Entries 81
Mean −0.002041
Std Dev 0.9548

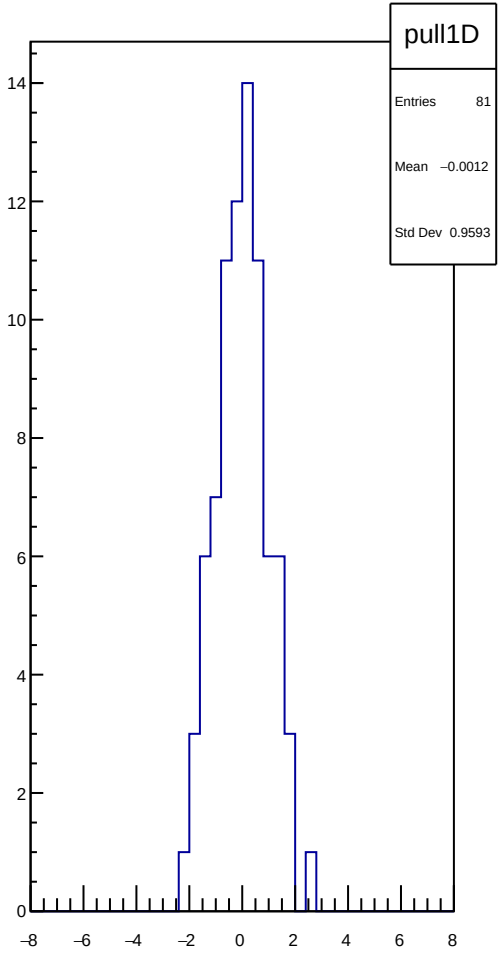

asym_sam6_eigen_cor_correction_rms vs run
χ² / ndf 3277 / 80
p0 1131 ± 0.9097
1300
1250
1200
1150
1100
1050
1000

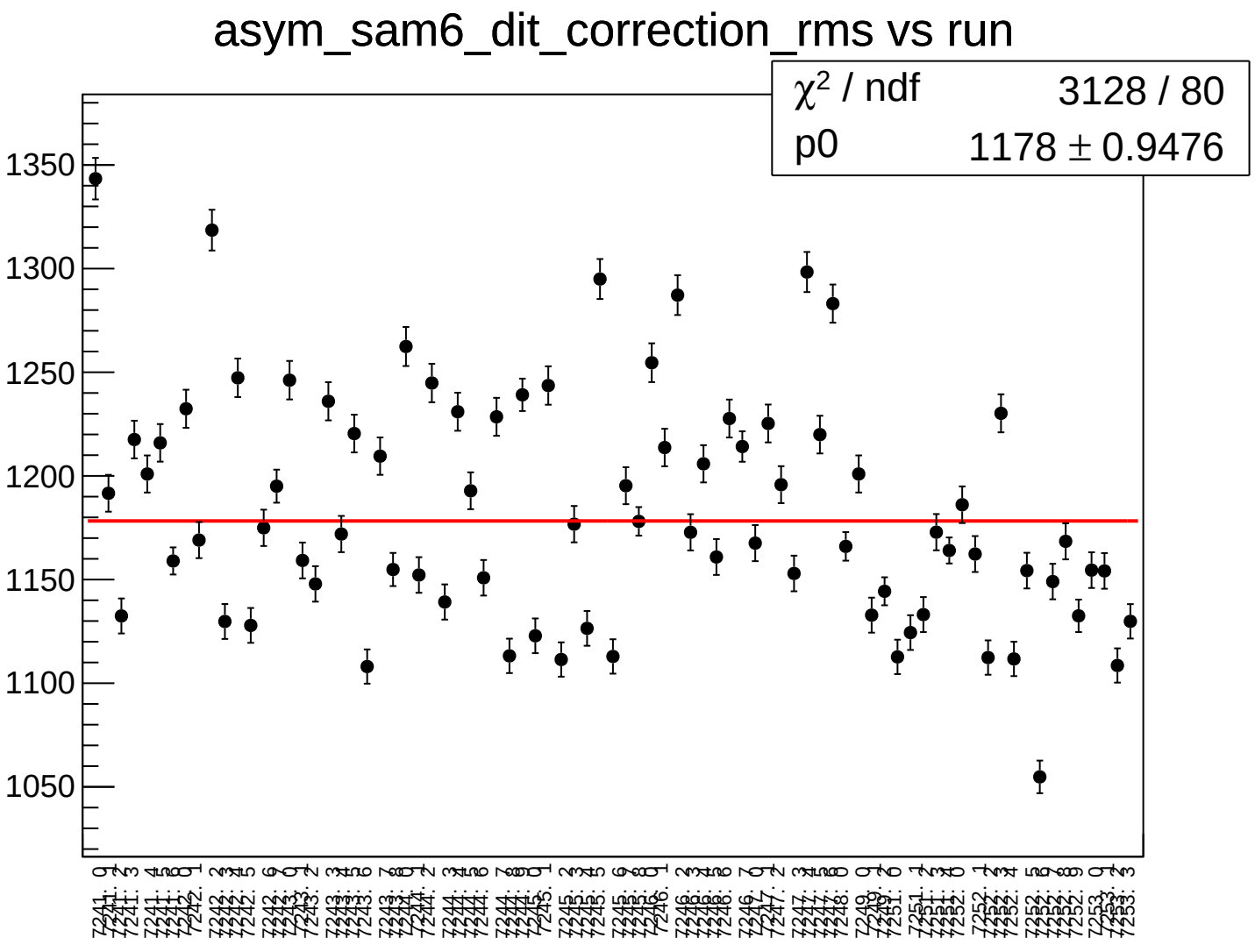

dit_asym_sam6_mean vs run
χ^2 / ndf 117.1 / 80
p0 524.5 ± 209.5
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 81
Mean 7.11
Std Dev 0
3
2
1
0
−1
−2

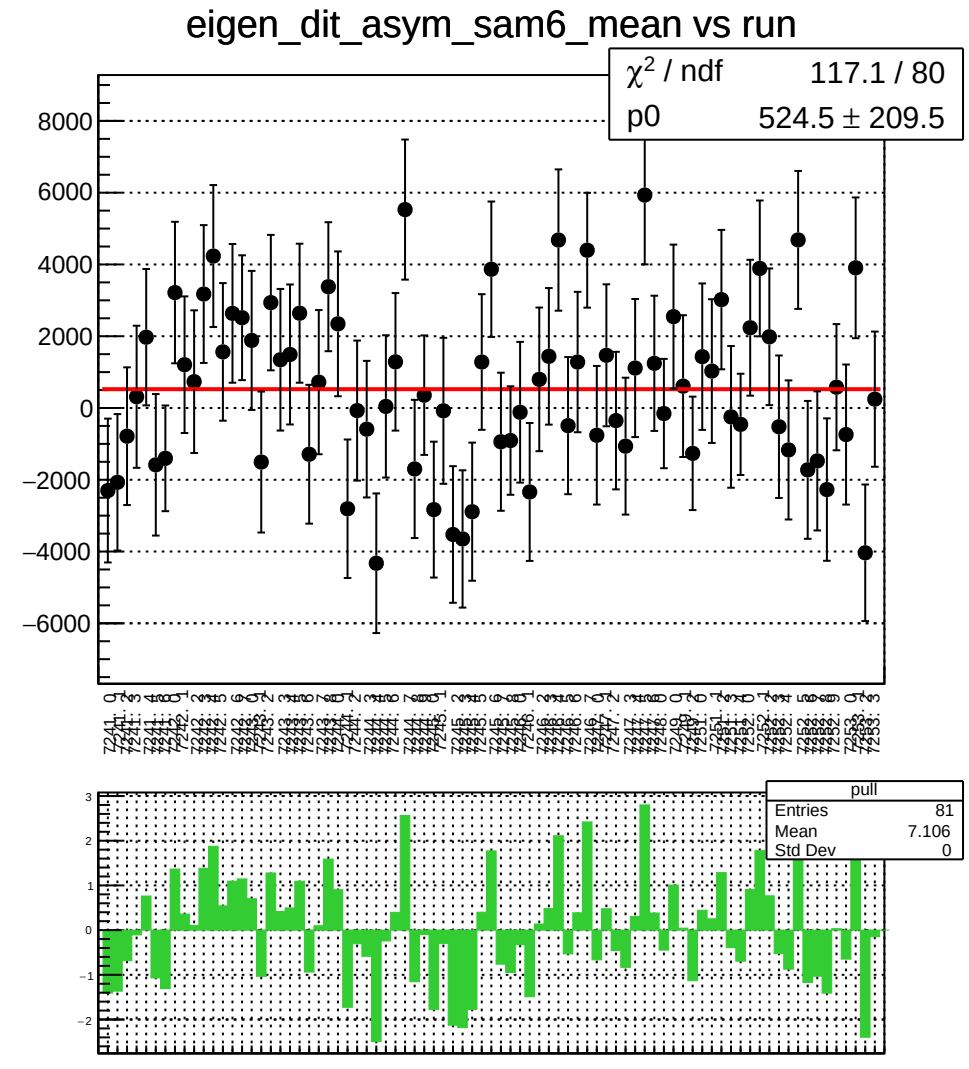

pull1D
Entries 81
Mean 0.008407
Std Dev 1.202
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

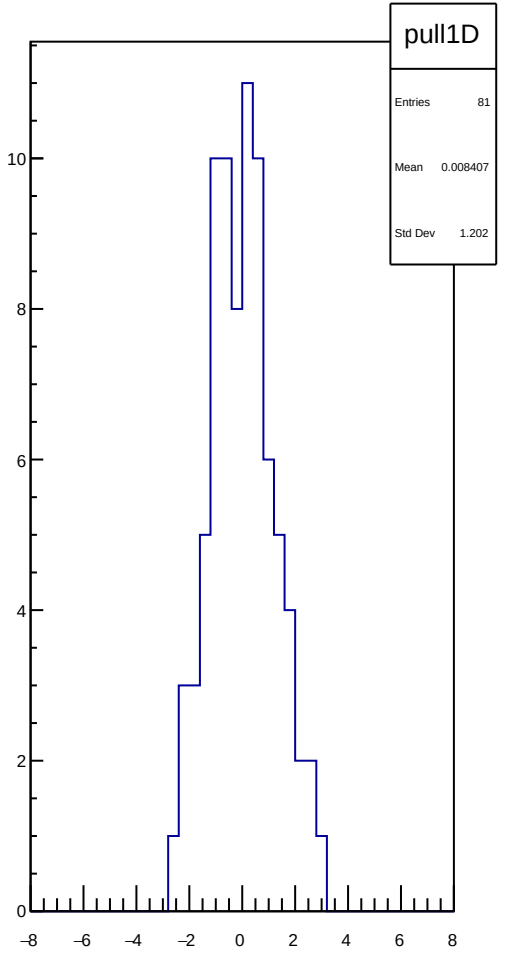

dit_asym_sam6_rms vs run
χ² / ndf 522.1 / 80
p0 184.3 ± 0.1481
196
194
192
190
188
186
184
182
180
178
176

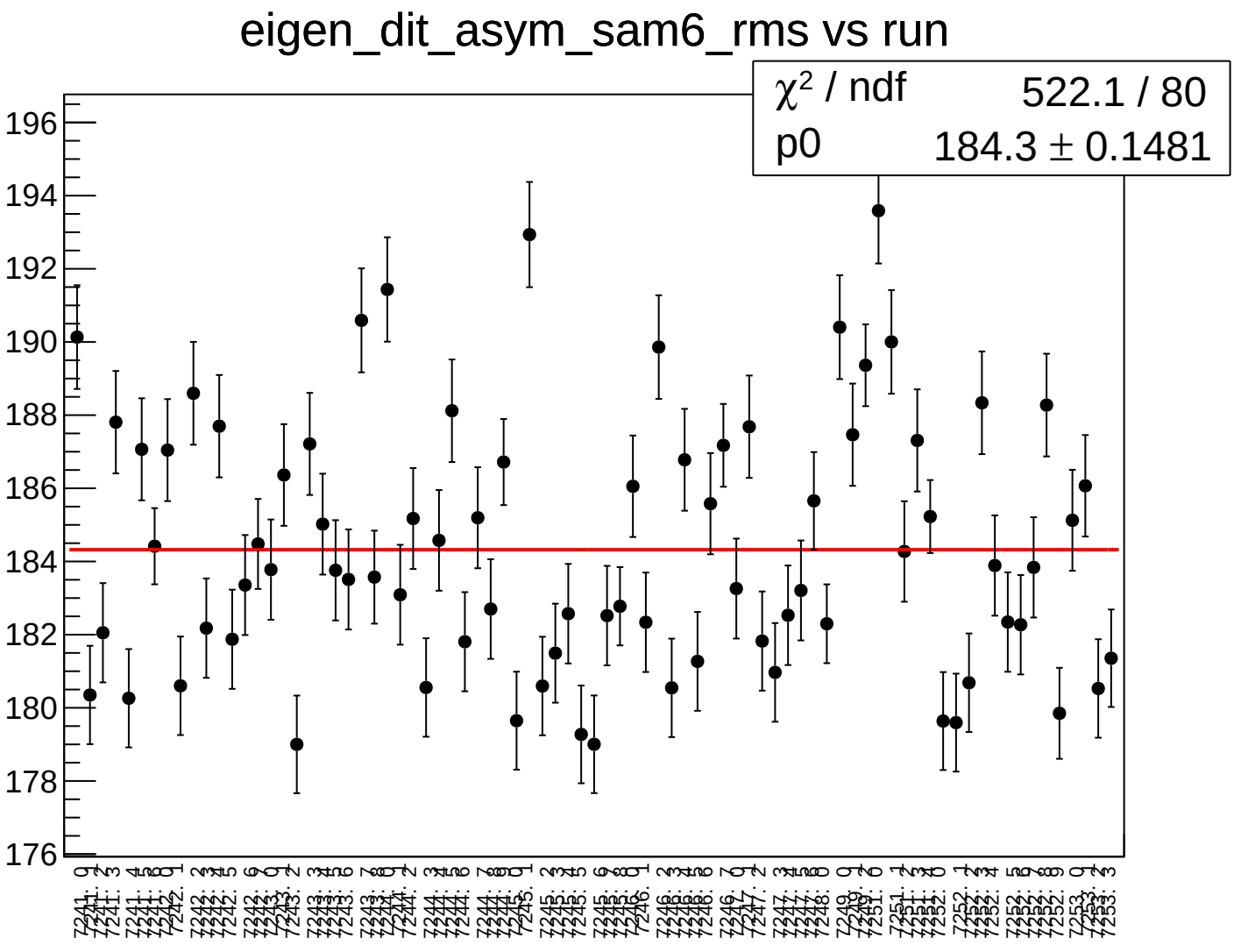

asym_sam6_dit_correction_mean vs run
χ² / ndf 74.55 / 80
p0 1033 ± 1340
pull
Entries 81
Mean 1111
Std Dev 0

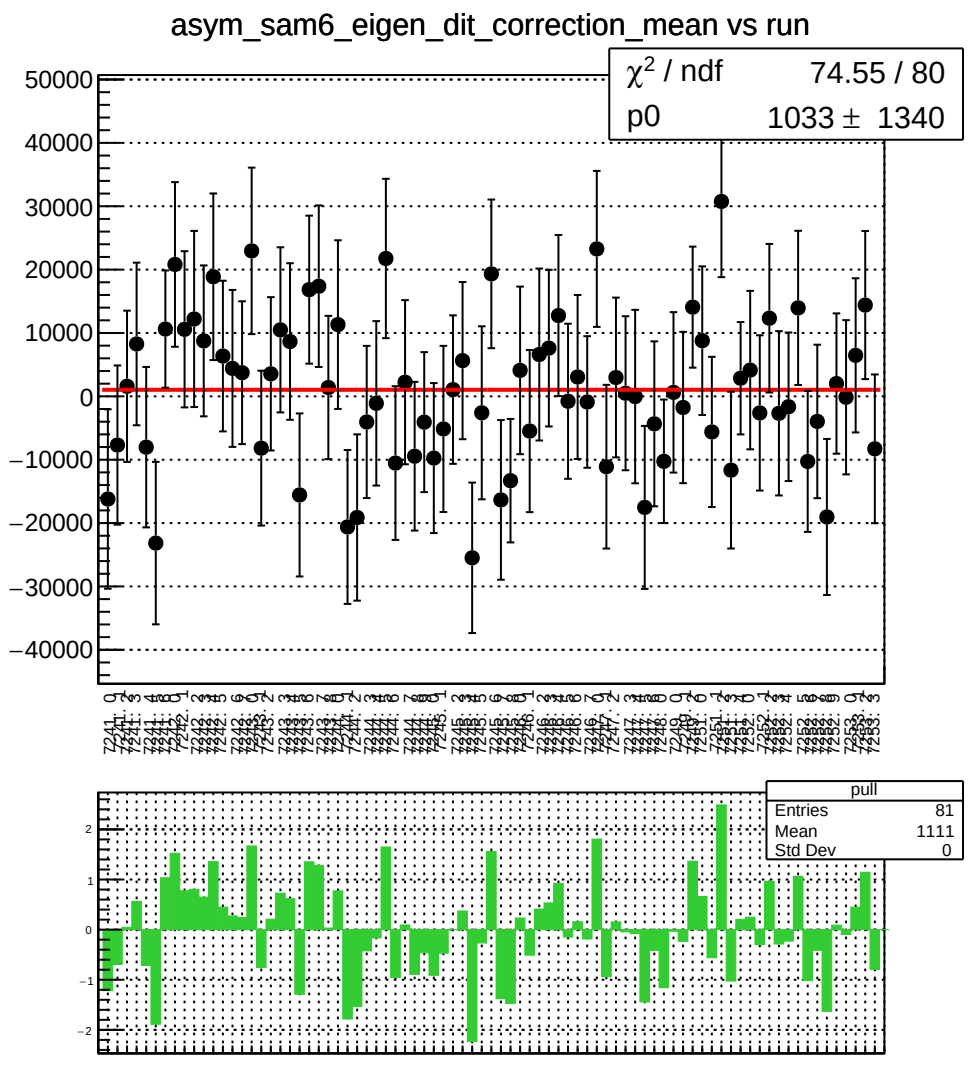

pull1D
Entries 81
Mean −0.0012
Std Dev 0.9593

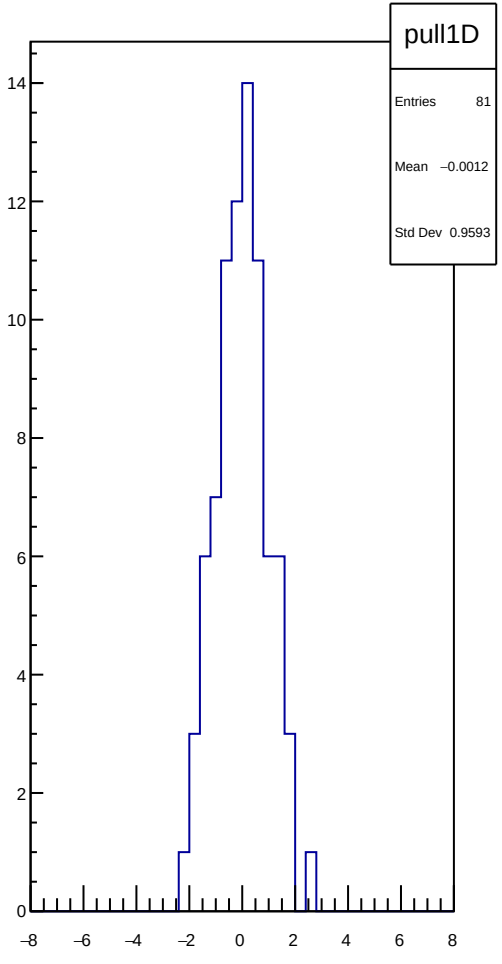

asym_sam6_dit_correction_rms vs run
χ² / ndf 3128 / 80
p0 1178 ± 0.9476
1350
1300
1250
1200
1150
1100
1050

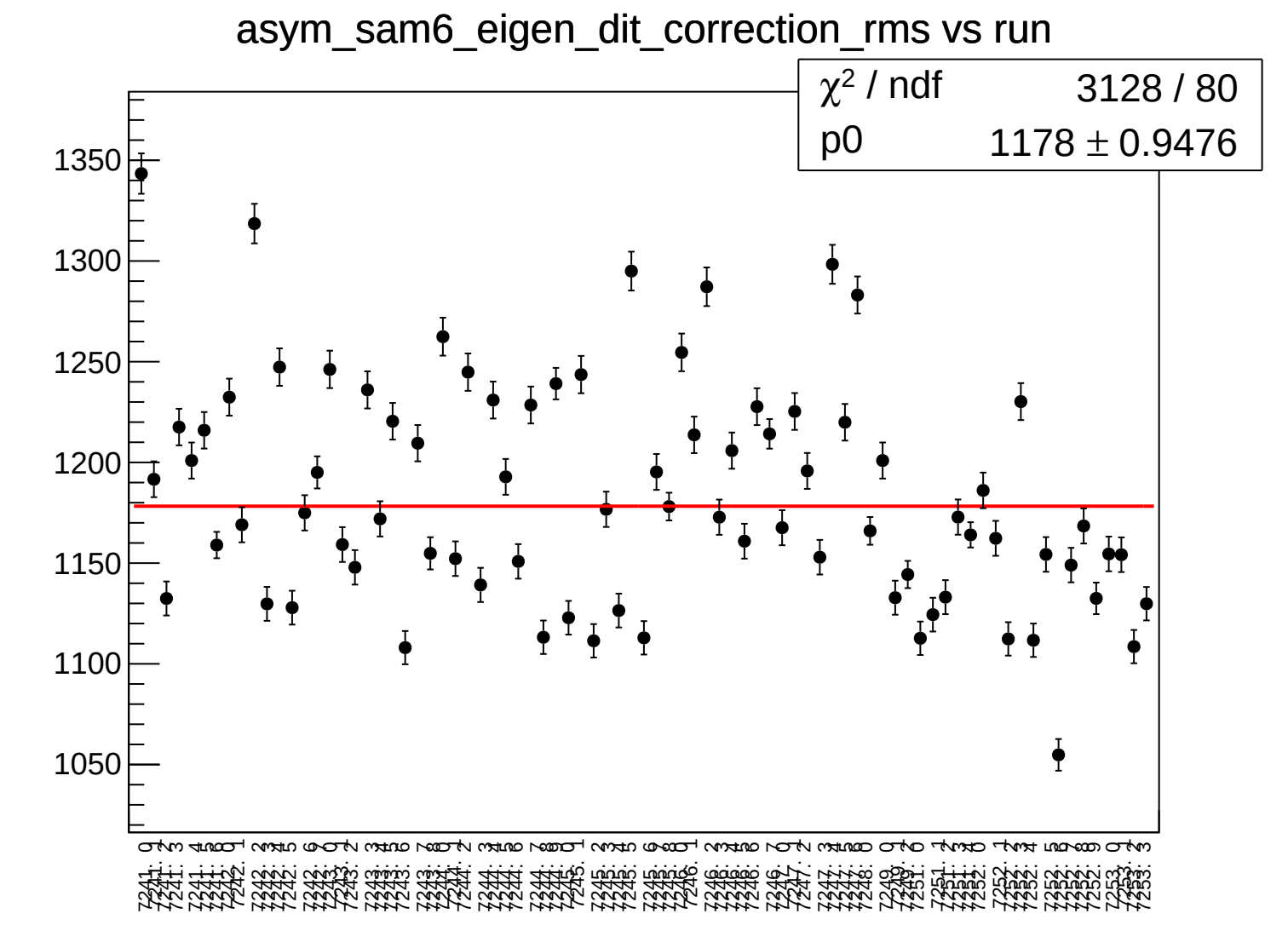

eigen_dit_asym_sam6_mean vs run
χ^2 / ndf 117.1 / 80
p0 524.5 ± 209.5
pull
Entries 81
Mean 7.106
Std Dev 0

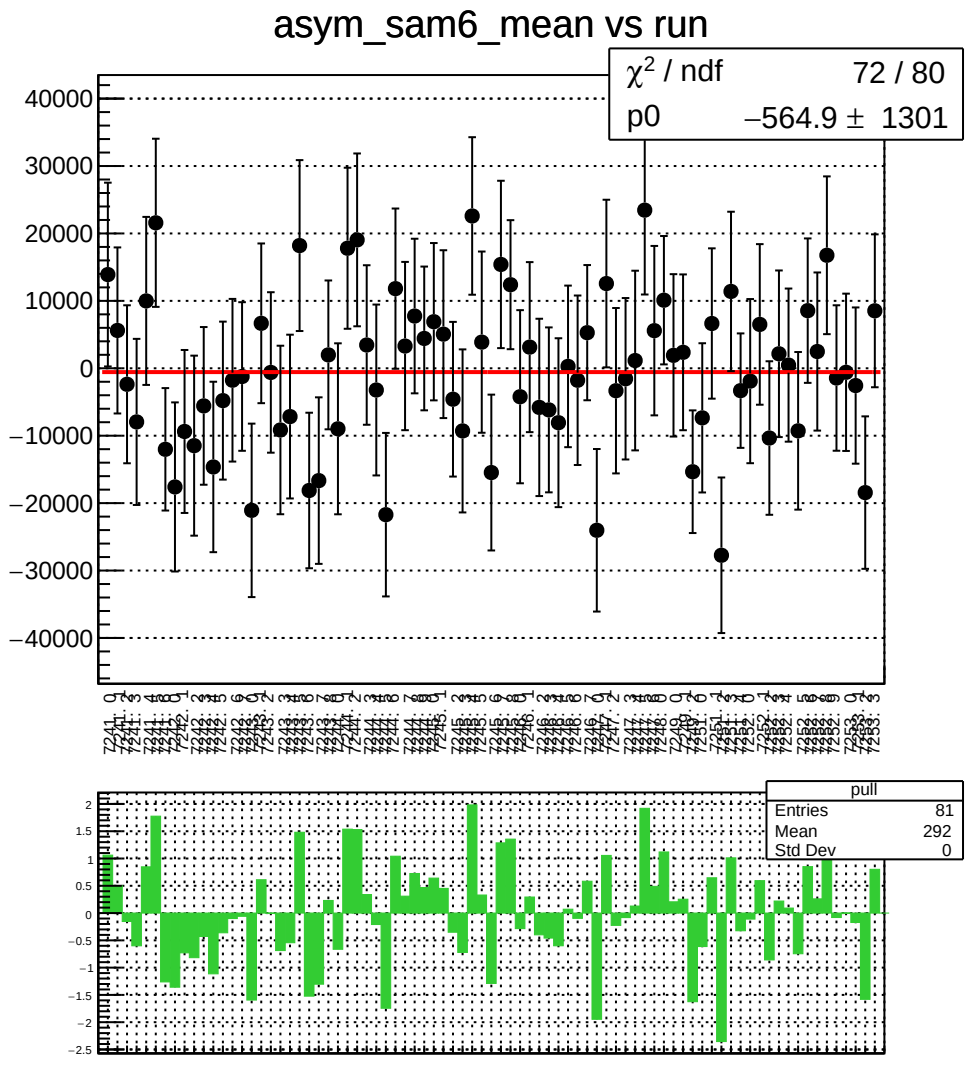

pull1D
Entries 81
Mean 0.008407
Std Dev 1.202

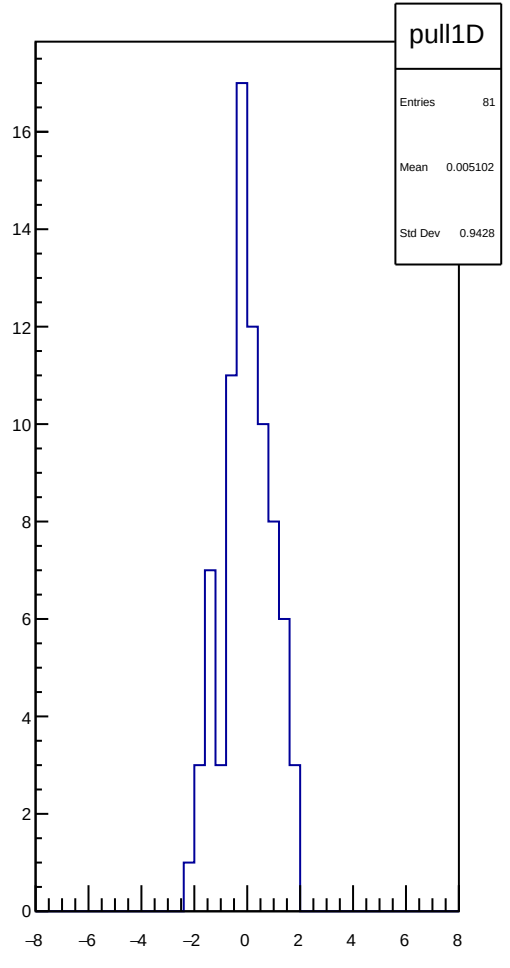

eigen_dit_asym_sam6_rms vs run
χ² / ndf 522.1 / 80
p0 184.3 ± 0.1481
196
194
192
190
188
186
184
182
180
178
176

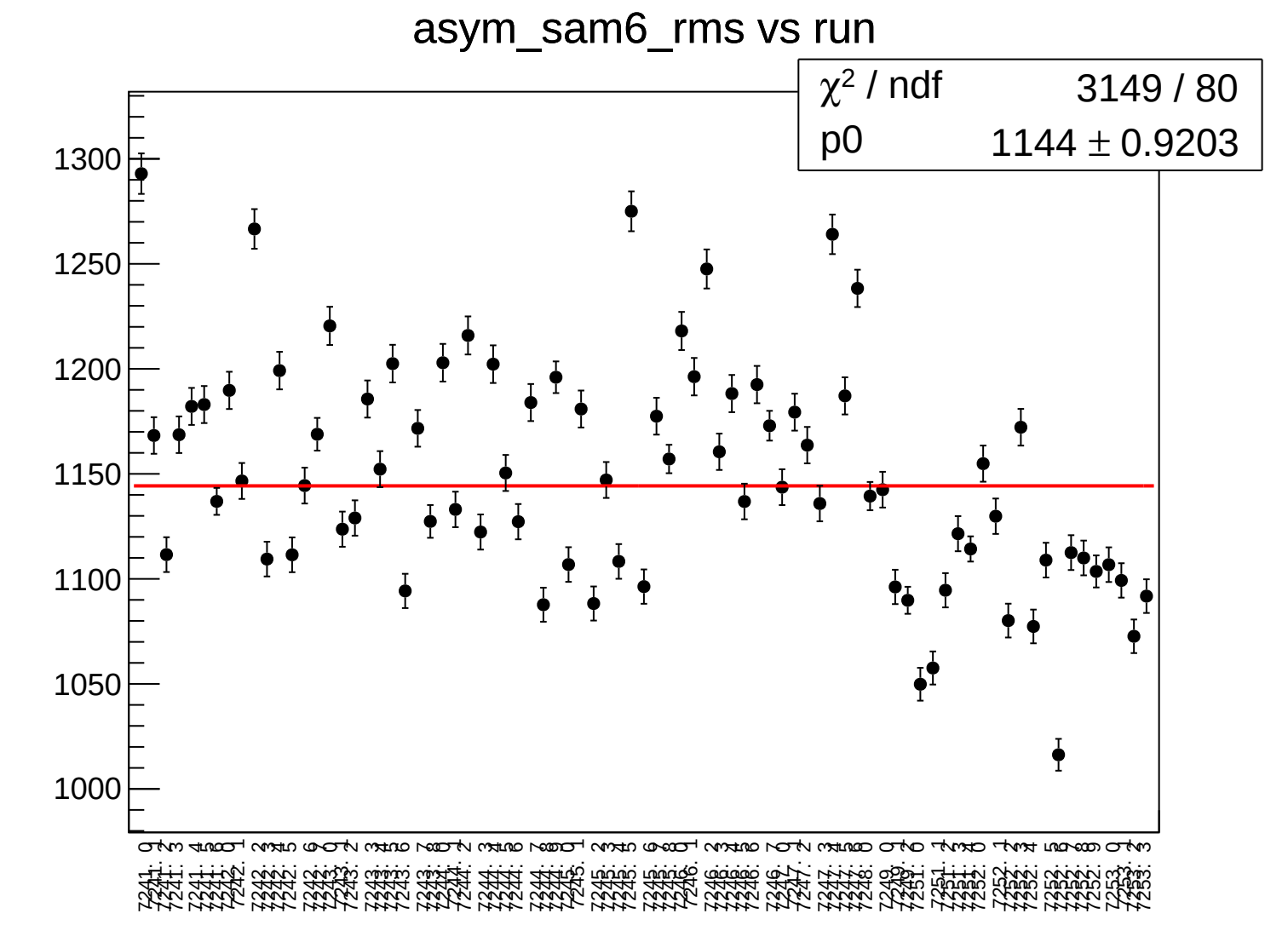

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 74.55 / 80
p0 1033 ± 1340
pull
Entries 81
Mean 1111
Std Dev 0

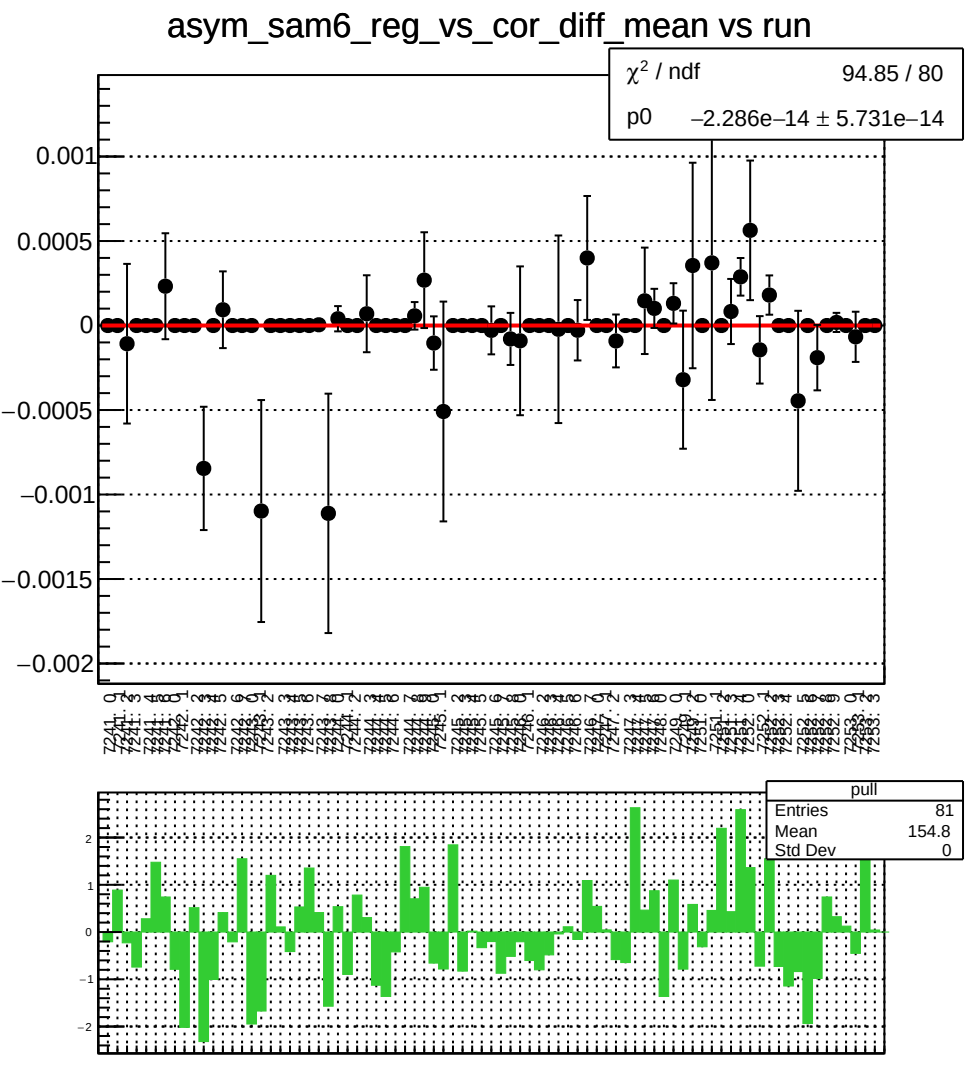

pull1D
Entries 81
Mean −0.0012
Std Dev 0.9593

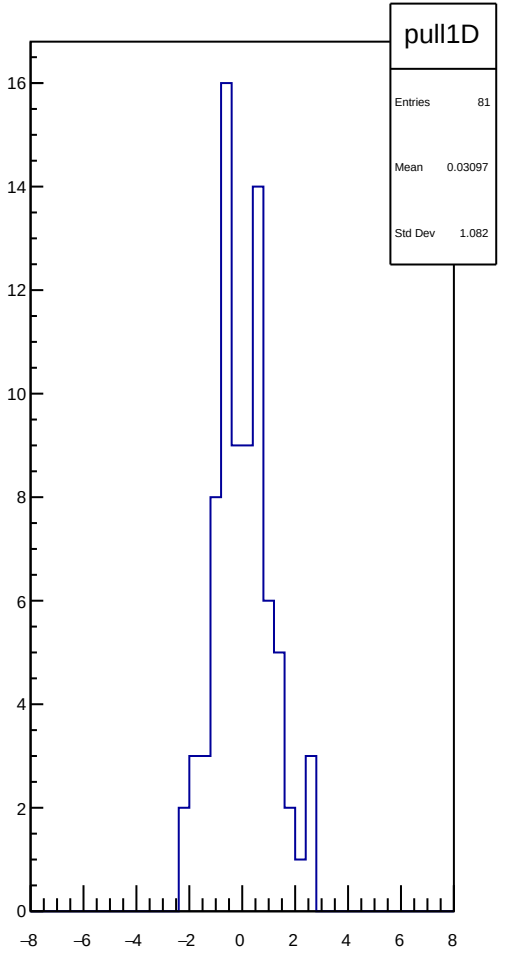

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 3128 / 80
p0 1178 ± 0.9476
1350
1300
1250
1200
1150
1100
1050

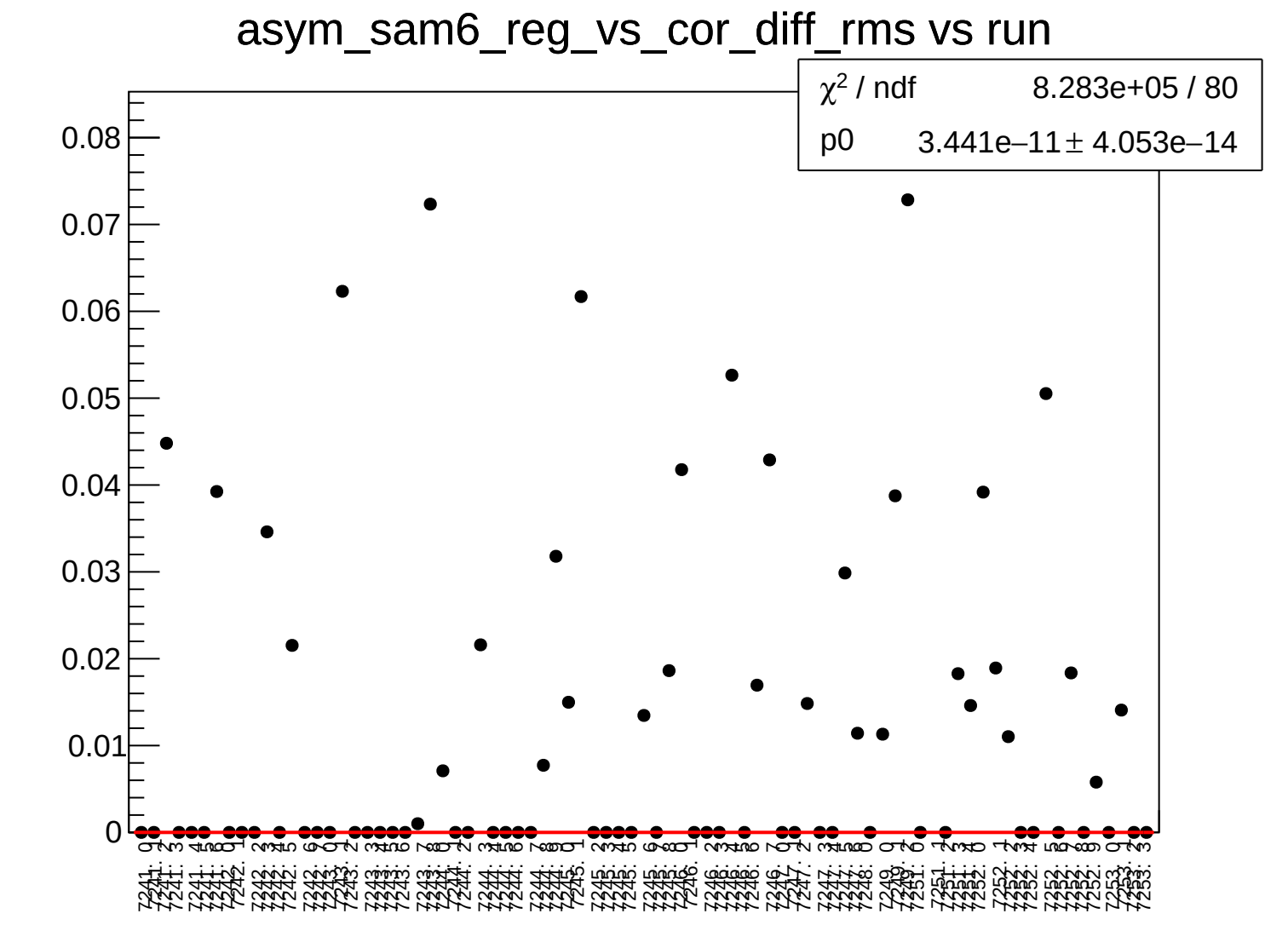

asym_sam6_mean vs run
χ² / ndf 72 / 80
p0 −564.9 ± 1301
pull
Entries 81
Mean 292
Std Dev 0

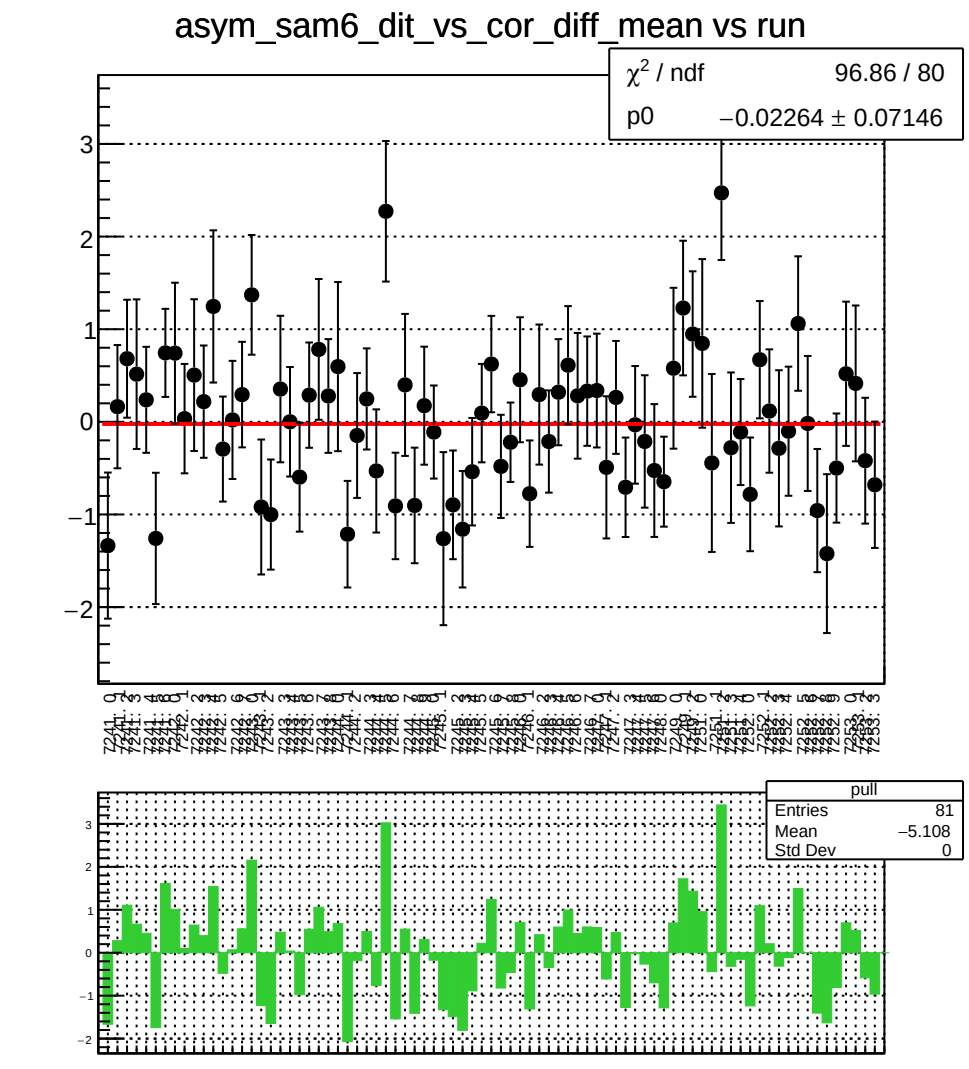

pull1D
Entries 81
Mean 0.005102
Std Dev 0.9428

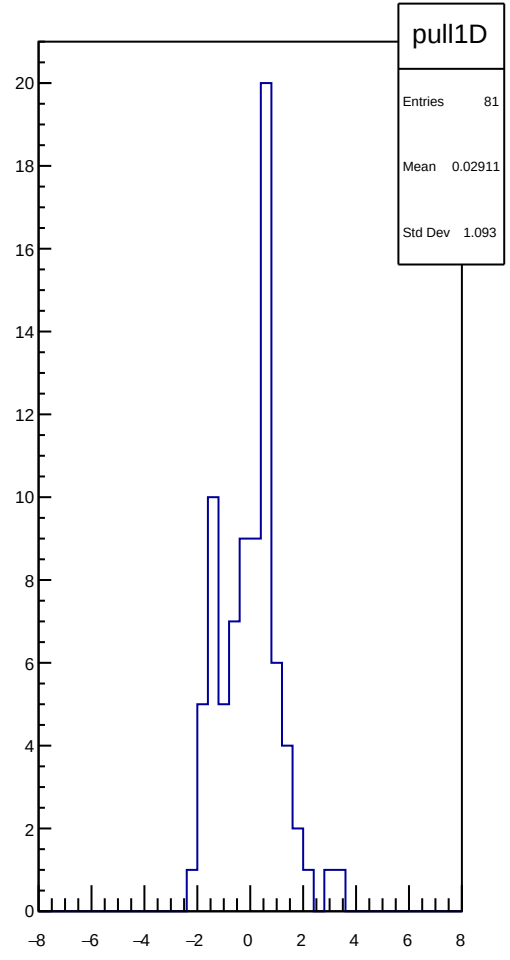

asym_sam6_rms vs run
χ² / ndf 3149 / 80
p0 1144 ± 0.9203
1300
1250
1200
1150
1100
1050
1000

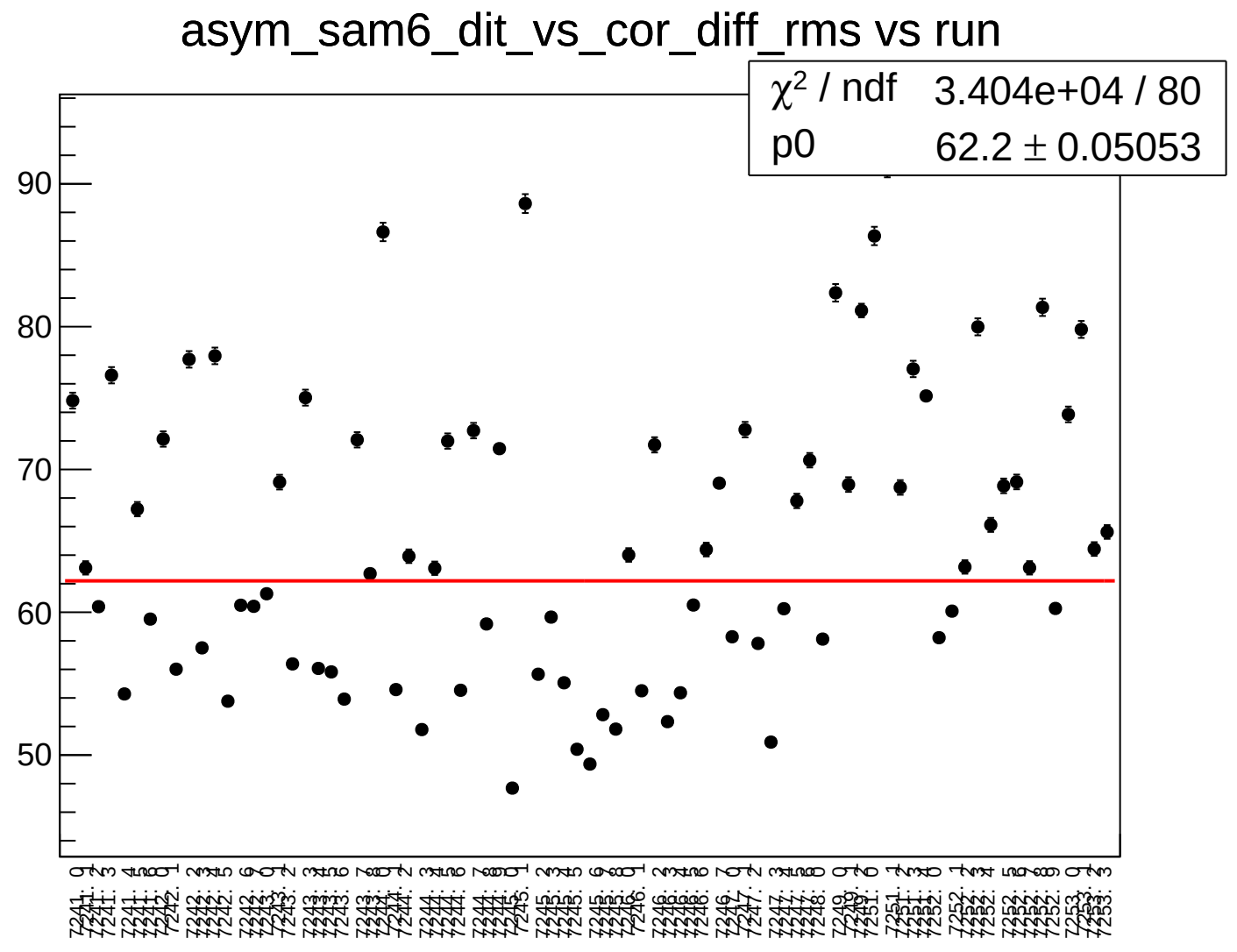

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 94.85 / 80
p0 −2.286e−14 ± 5.731e−14
pull
Entries 81
Mean 154.8
Std Dev 0

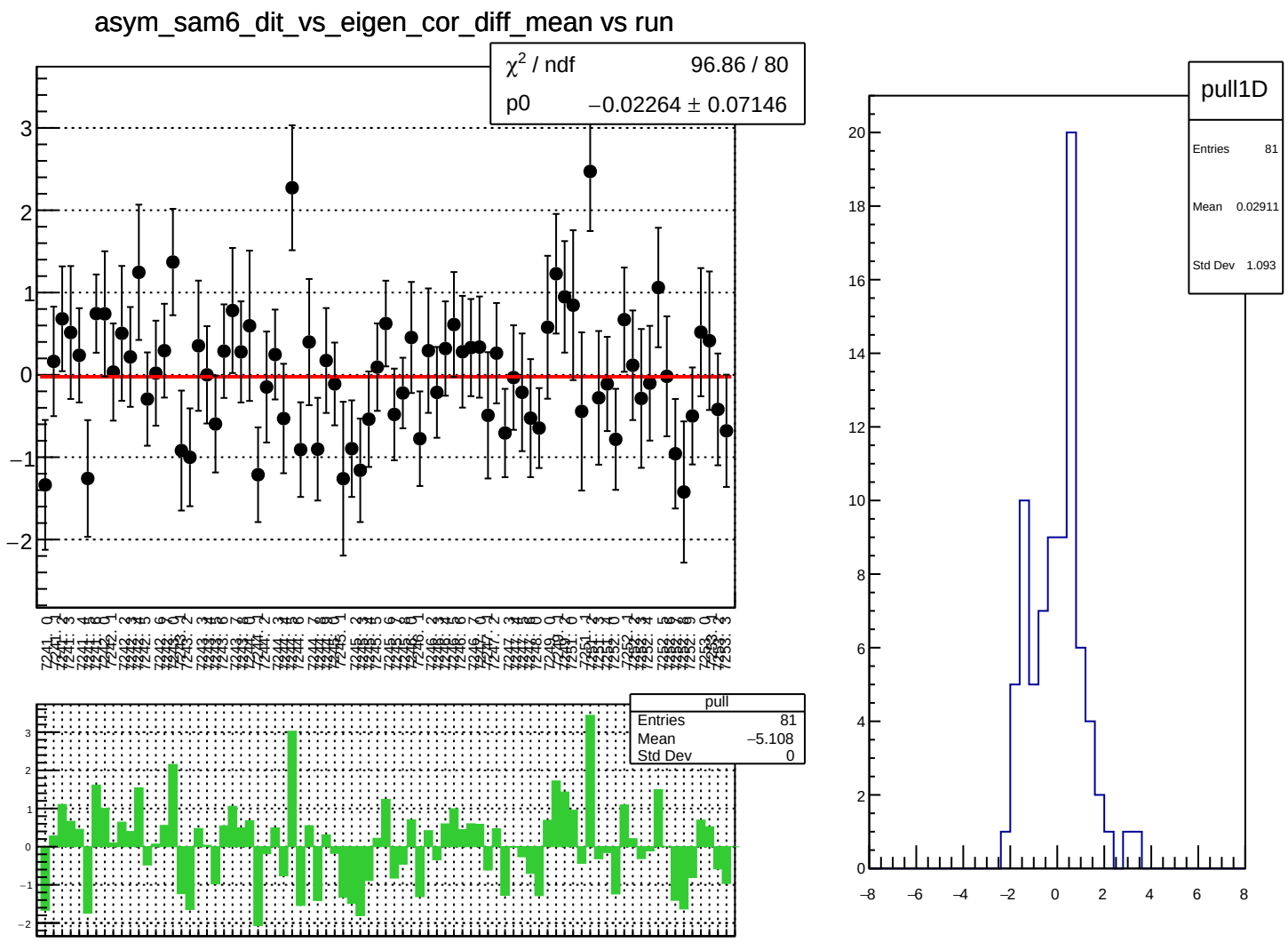

pull1D
Entries 81
Mean 0.03097
Std Dev 1.082

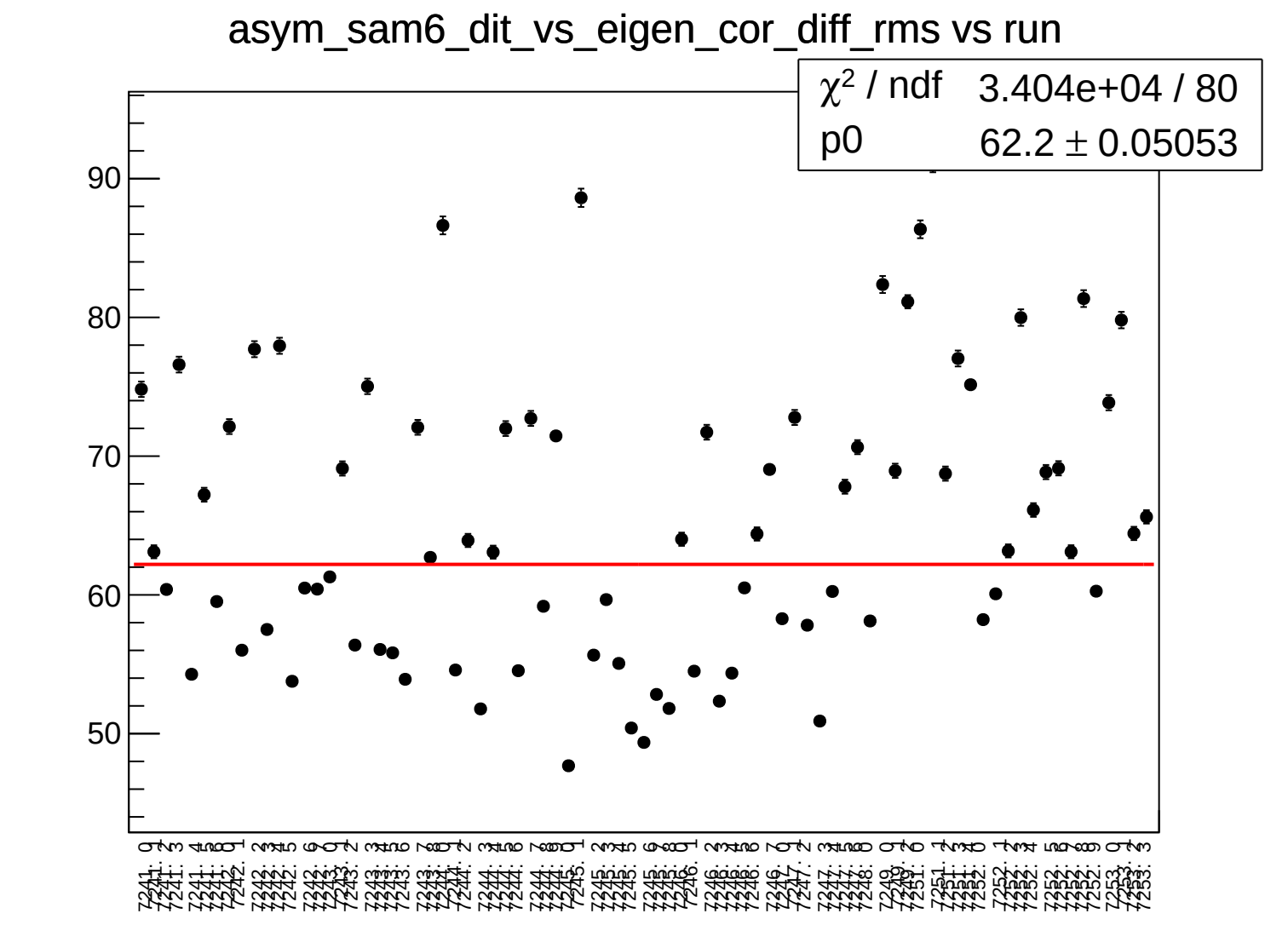

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 8.283e+05 / 80
p0 3.441e−11 ± 4.053e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

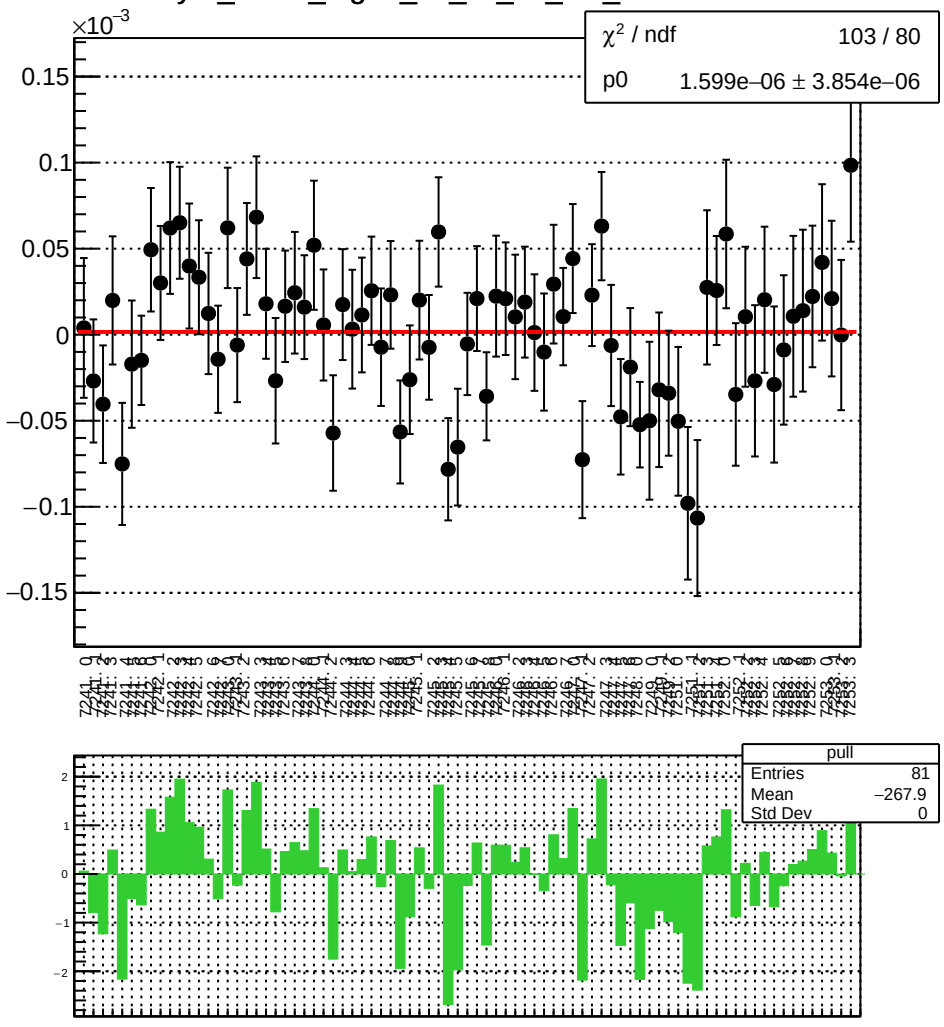

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 96.86 / 80
p0 −0.02264 ± 0.07146
pull
Entries 81
Mean −5.108
Std Dev 0

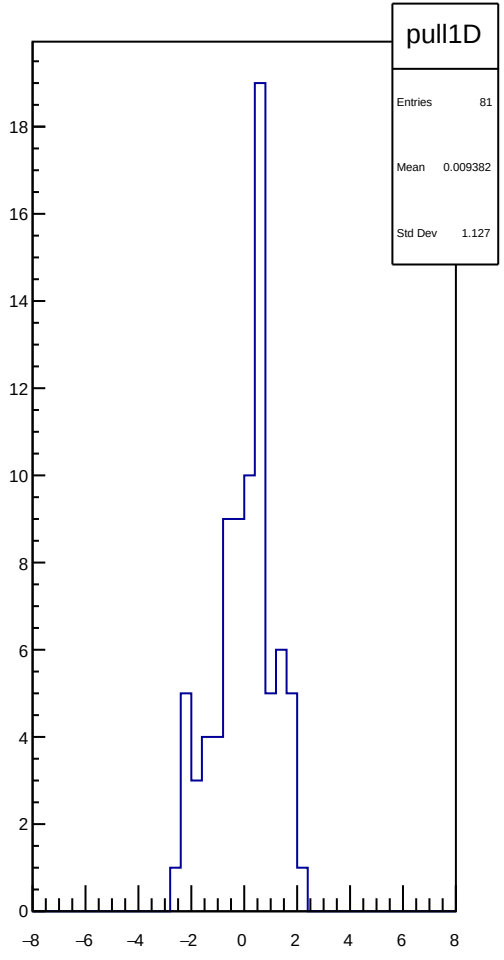

pull1D
Entries 81
Mean 0.02911
Std Dev 1.093

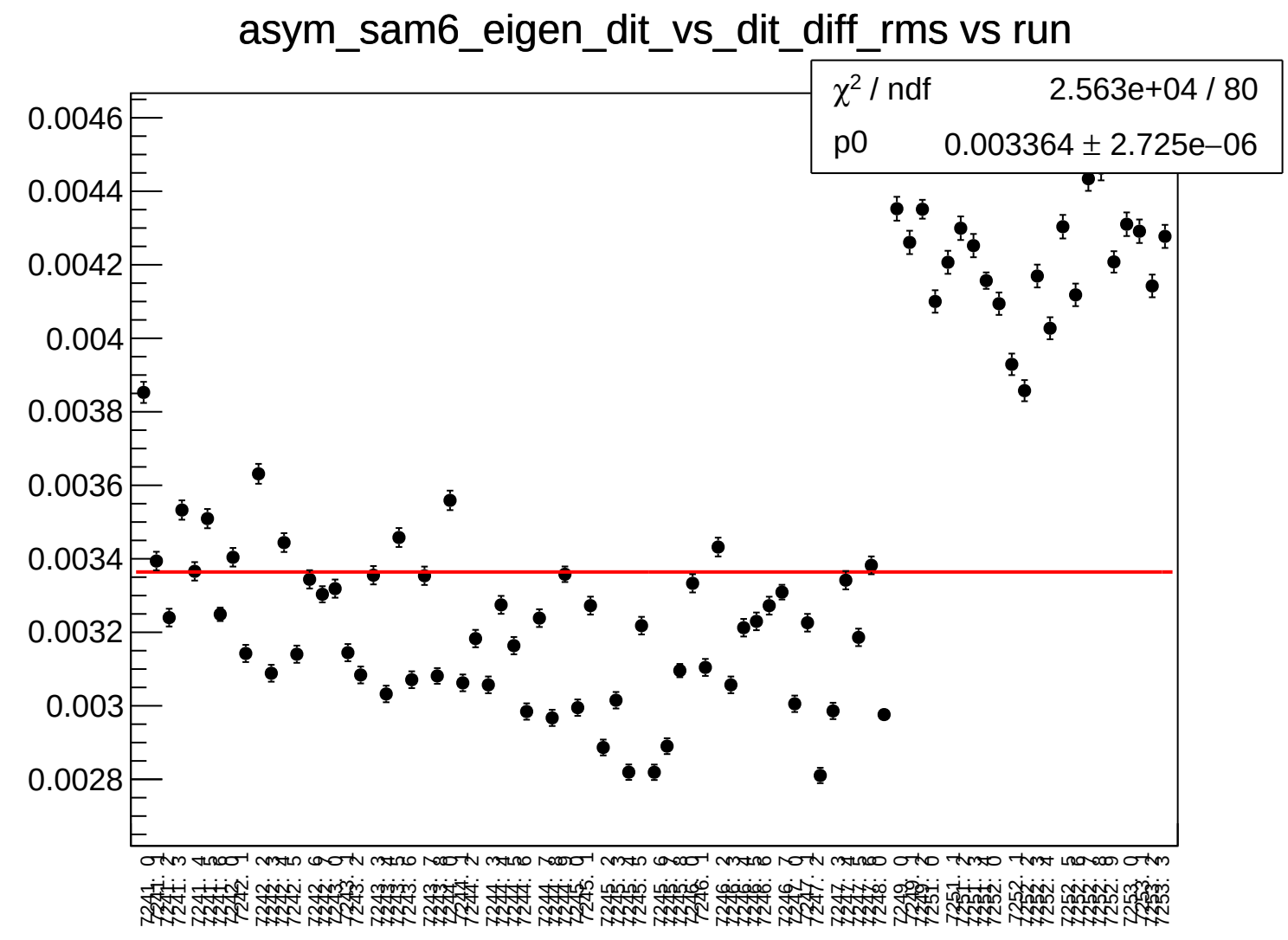

asym_sam6_dit_vs_cor_diff_rms vs run
χ² / ndf 3.404e+04 / 80
p0 62.2 ± 0.05053
90
80
70
60
50

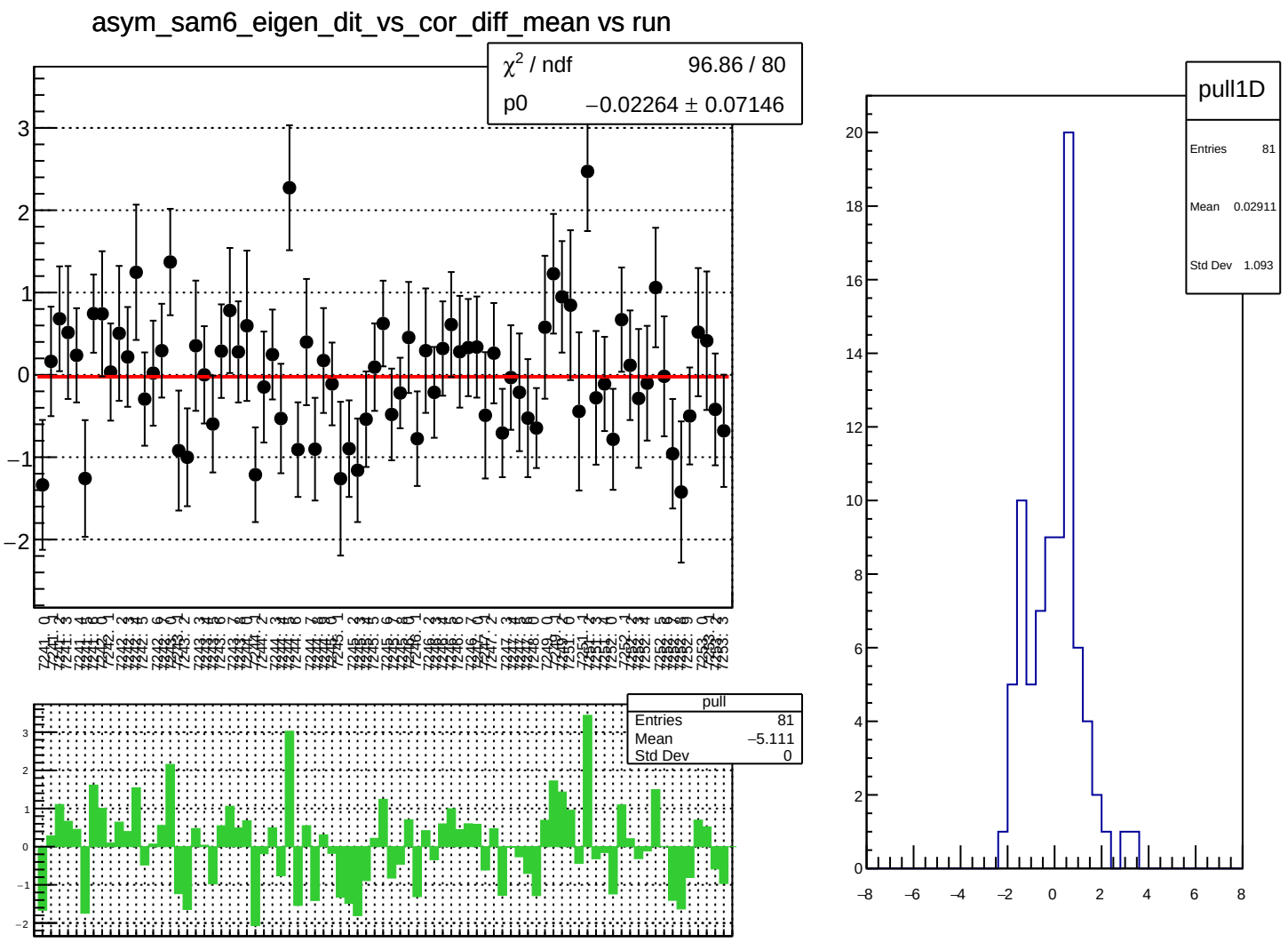

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.86 / 80
p0 −0.02264 ± 0.07146
pull
Entries 81
Mean −5.108
Std Dev 0
pull1D
Entries 81
Mean 0.02911
Std Dev 1.093

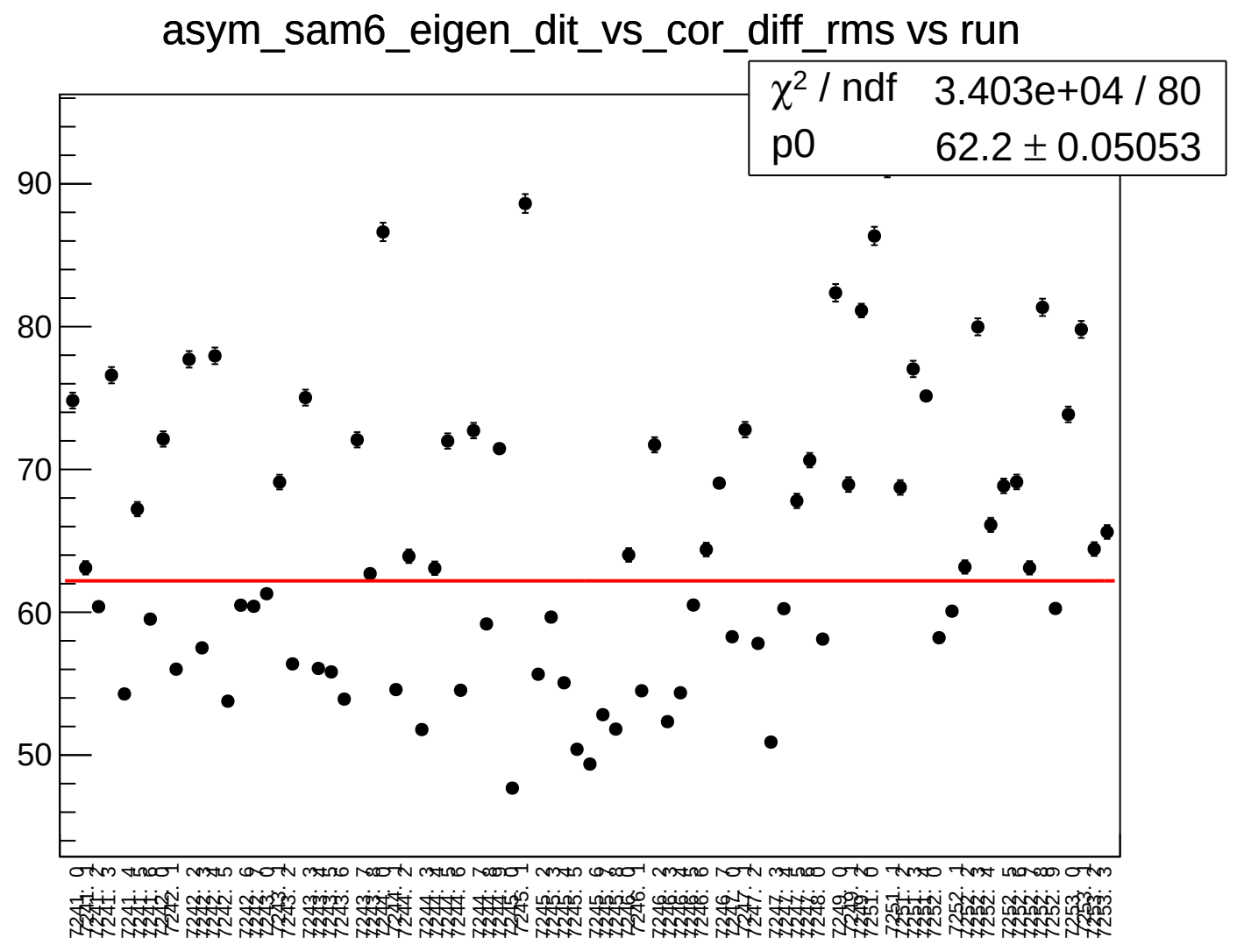

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.404e+04 / 80
p0 62.2 ± 0.05053
90
80
70
60
50

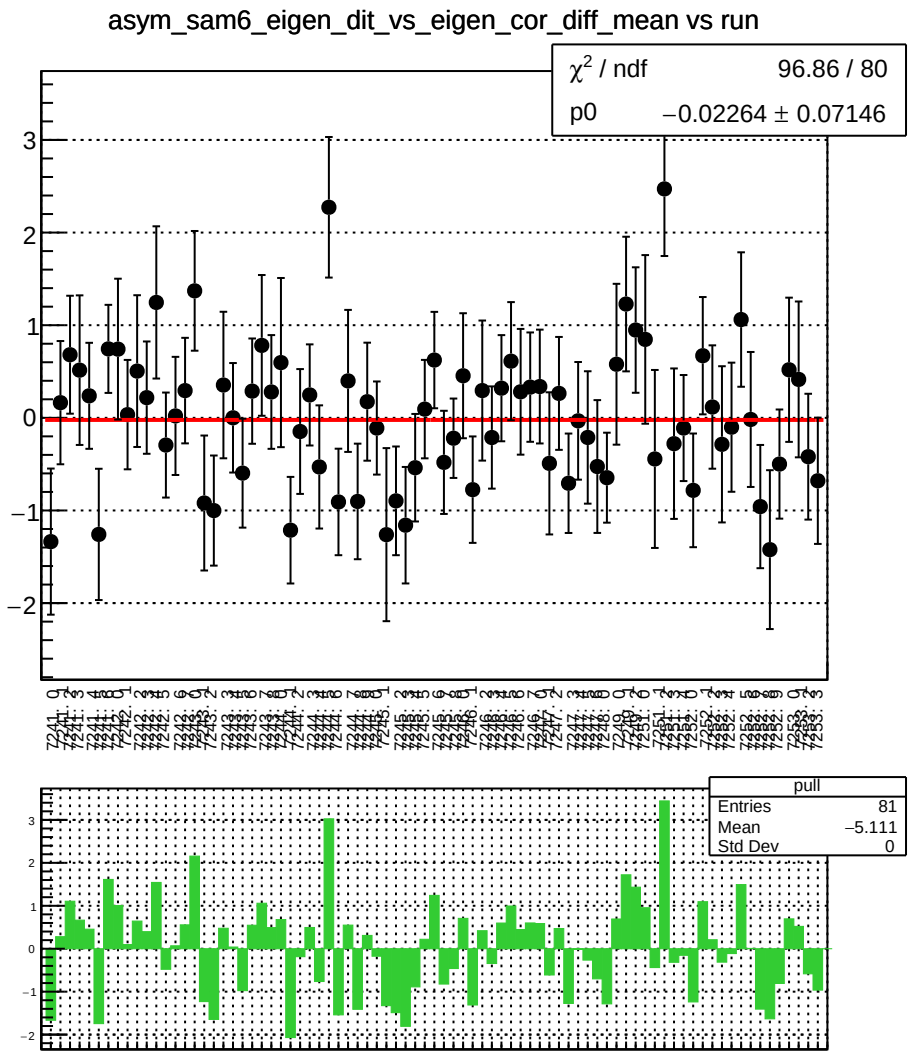

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103 / 80
p0 1.599e−06 ± 3.854e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 81
Mean −267.9
Std Dev 0
2
1
0
−1
−2

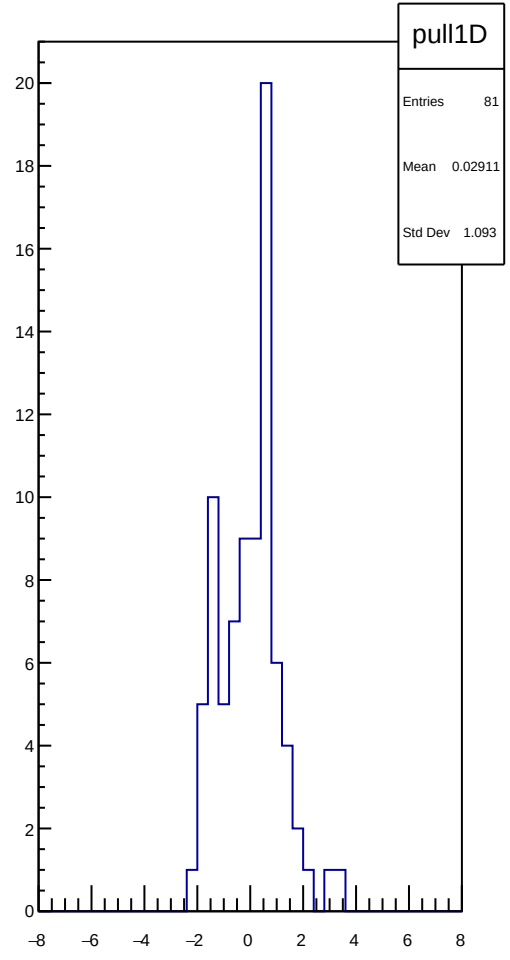

pull1D
Entries 81
Mean 0.009382
Std Dev 1.127
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

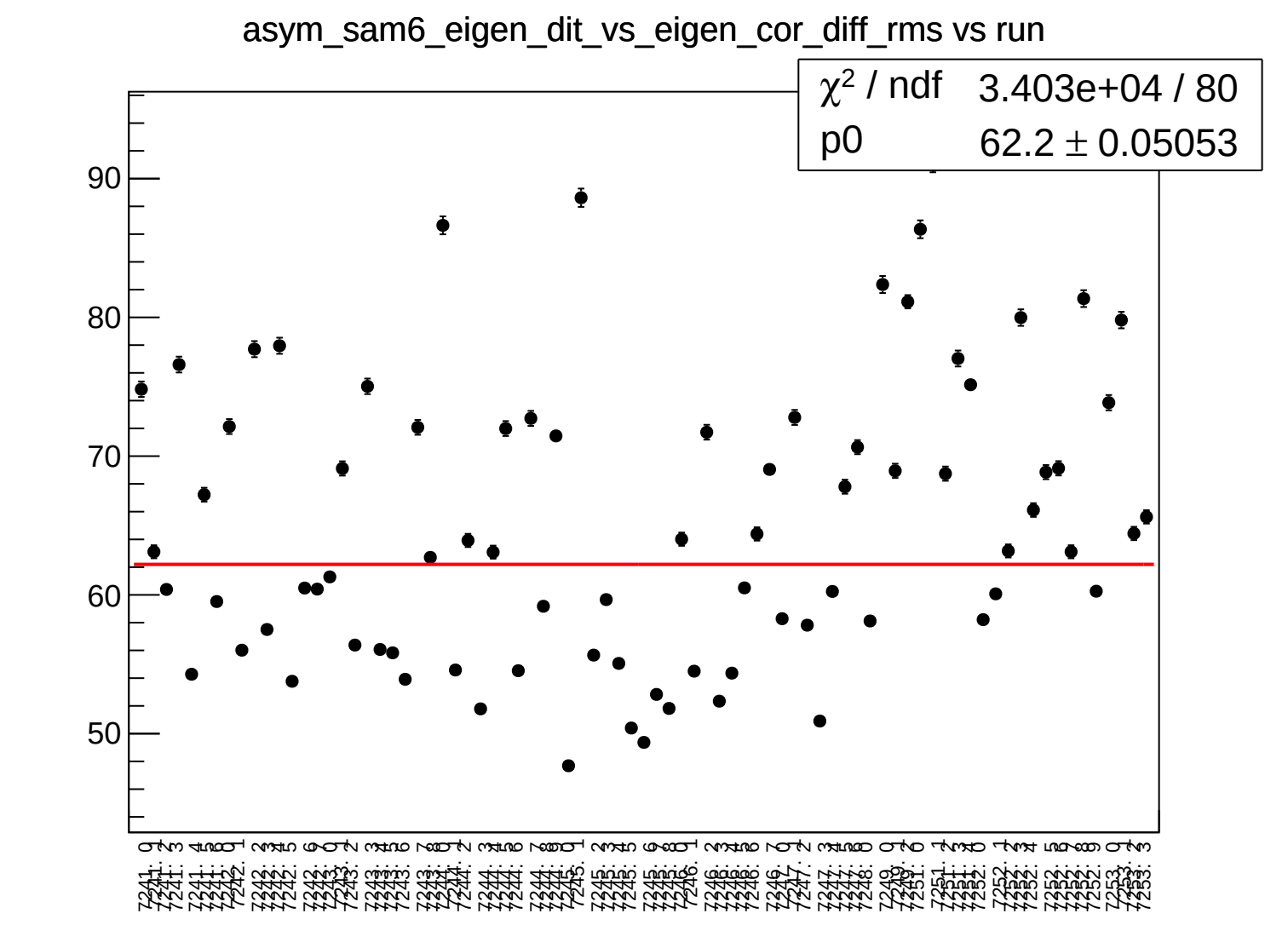

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.563e+04 / 80
p0 0.003364 ± 2.725e−06
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028

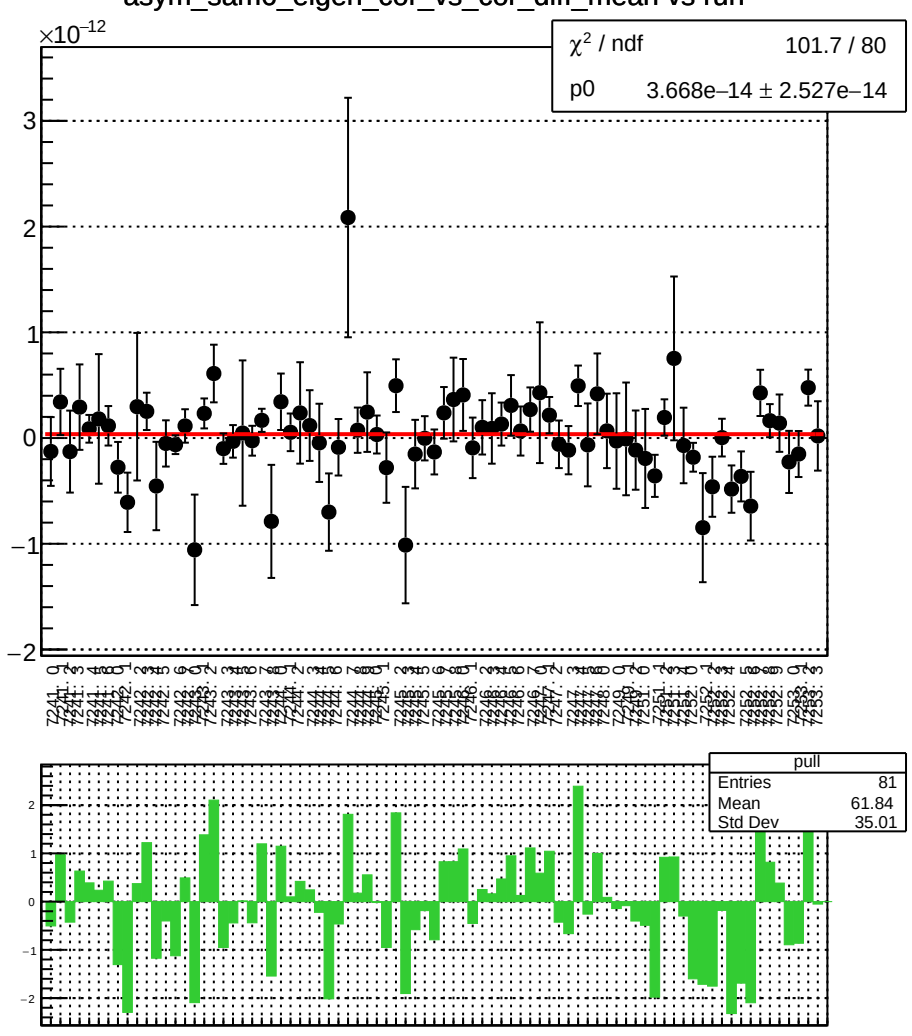

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.86 / 80
p0 −0.02264 ± 0.07146
pull
Entries 81
Mean −5.111
Std Dev 0
pull1D
Entries 81
Mean 0.02911
Std Dev 1.093

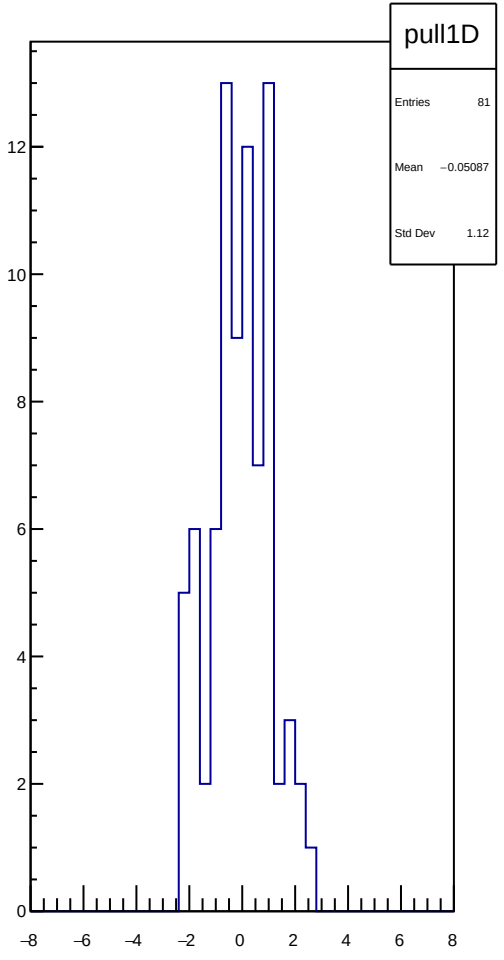

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.403e+04 / 80
p0 62.2 ± 0.05053
90
80
70
60
50

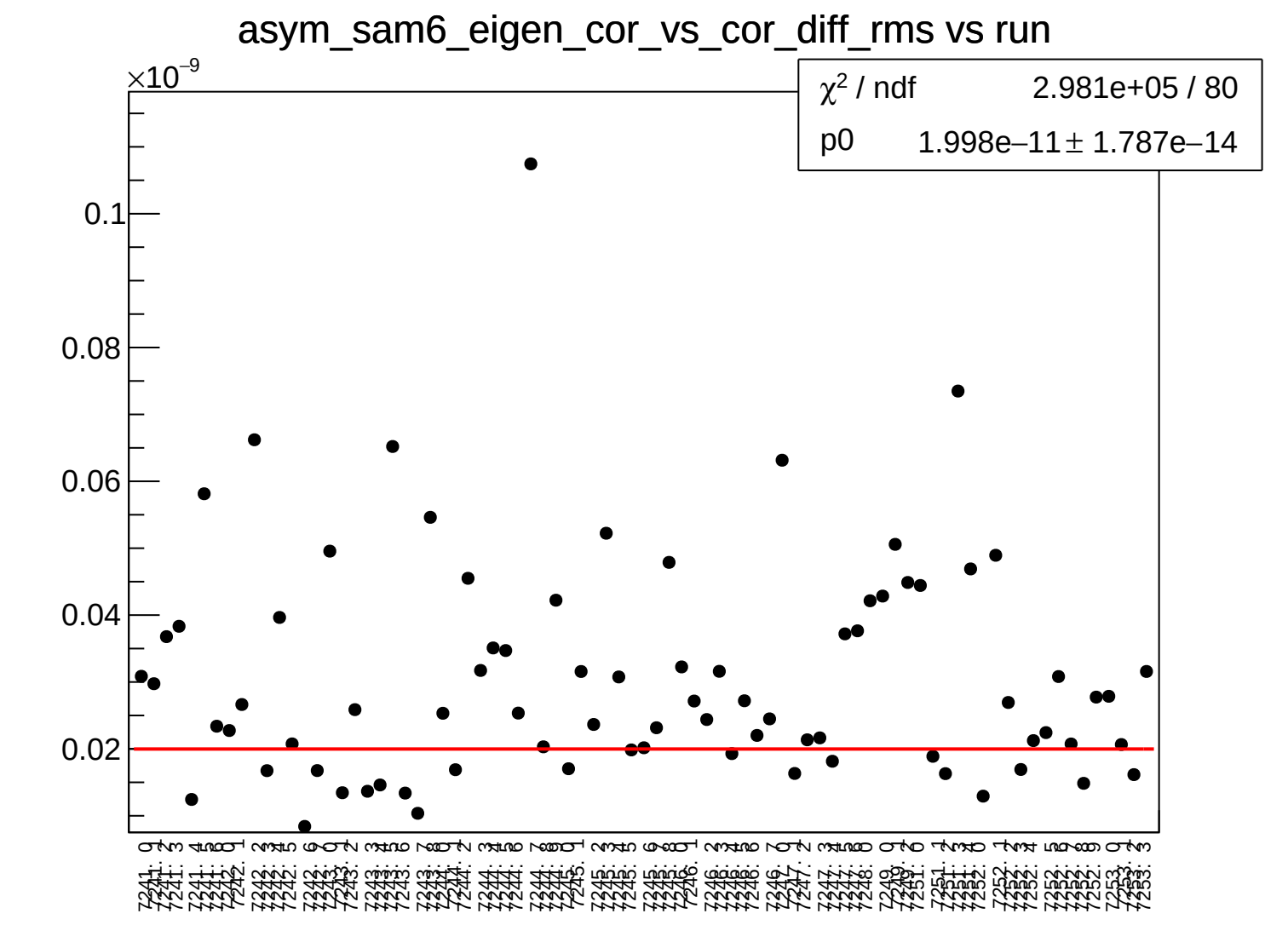

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.86 / 80
p0 −0.02264 ± 0.07146
pull
Entries 81
Mean −5.111
Std Dev 0

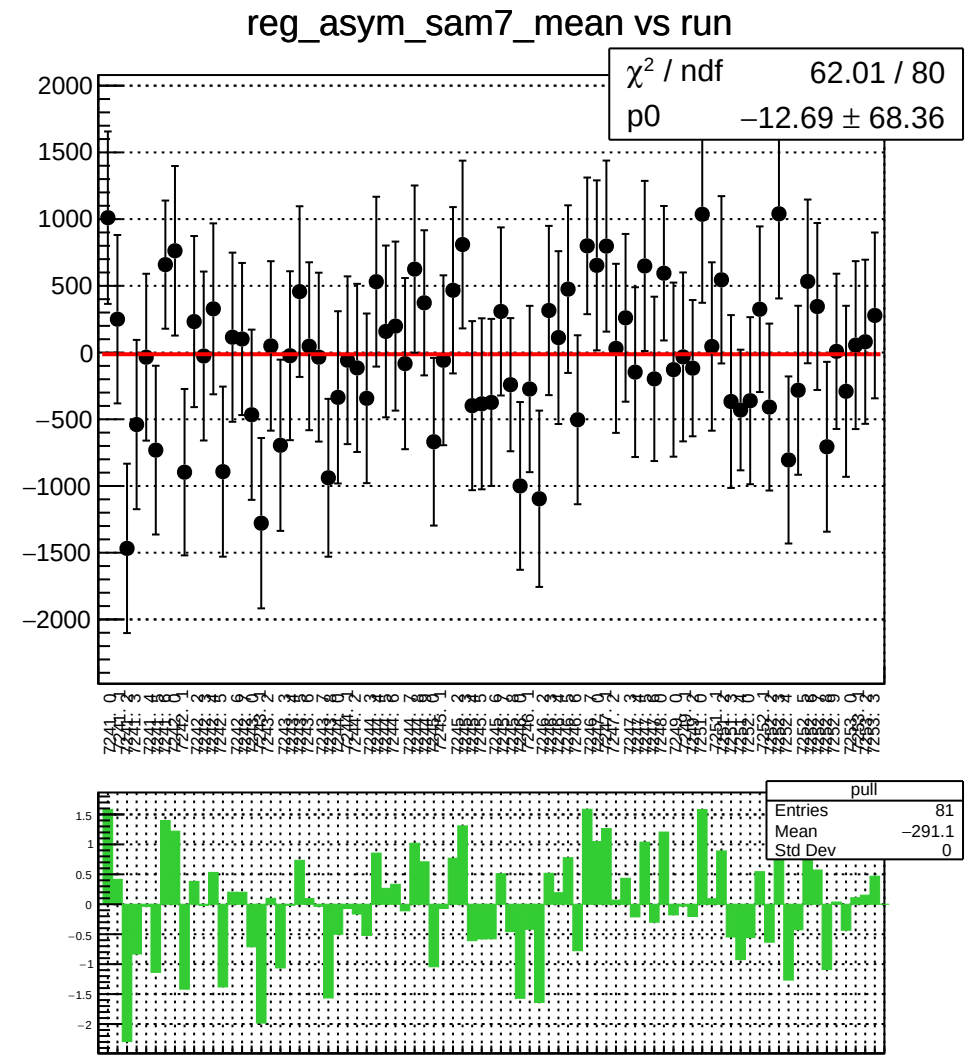

pull1D
Entries 81
Mean 0.02911
Std Dev 1.093

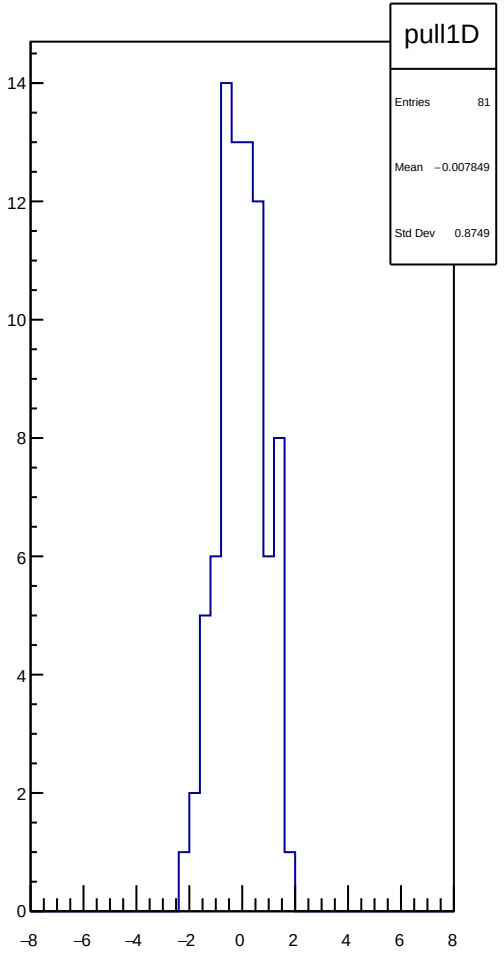

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.403e+04 / 80
p0 62.2 ± 0.05053
90
80
70
60
50

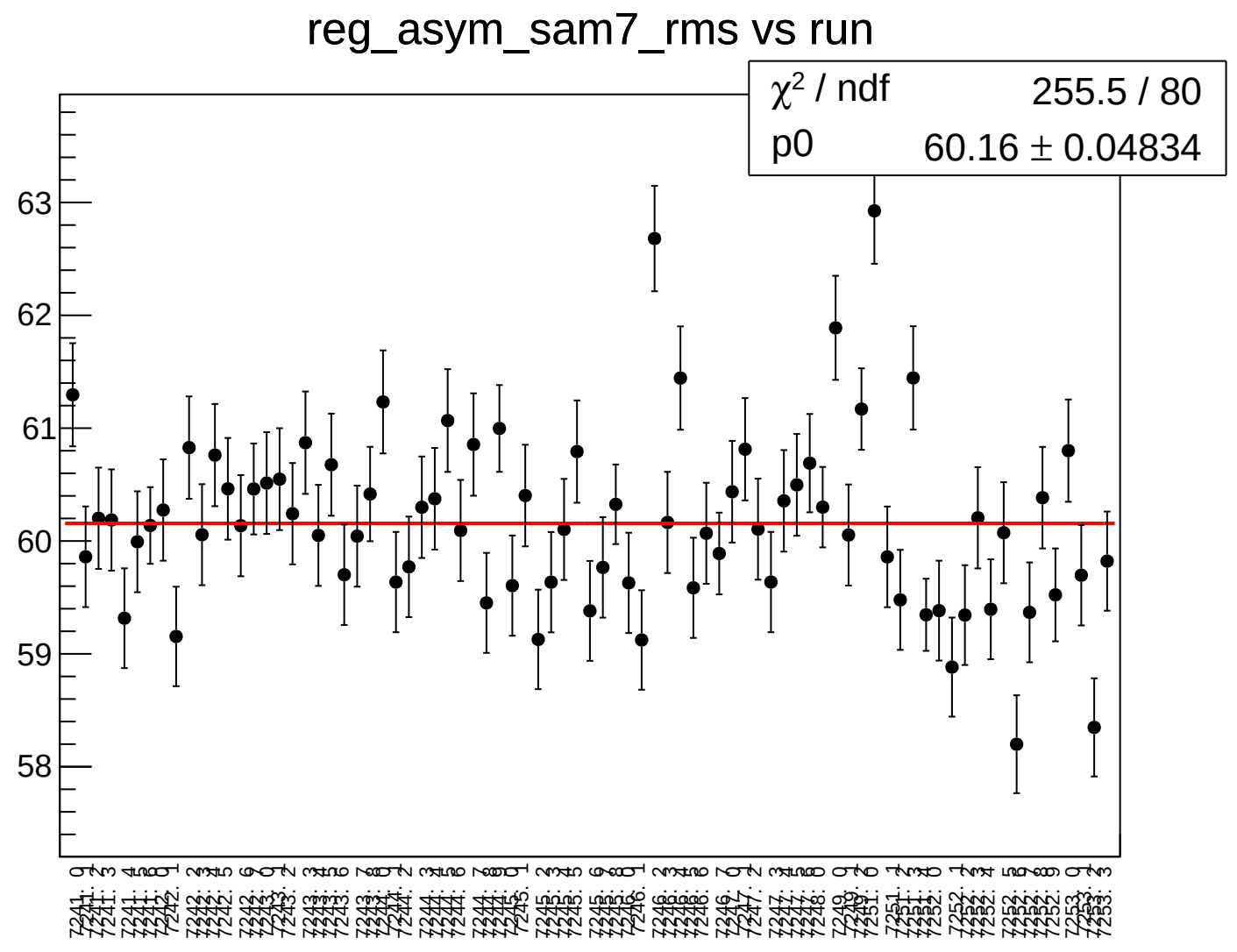

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 101.7 / 80
p0 3.668e−14 ± 2.527e−14
pull
Entries 81
Mean 61.84
Std Dev 35.01

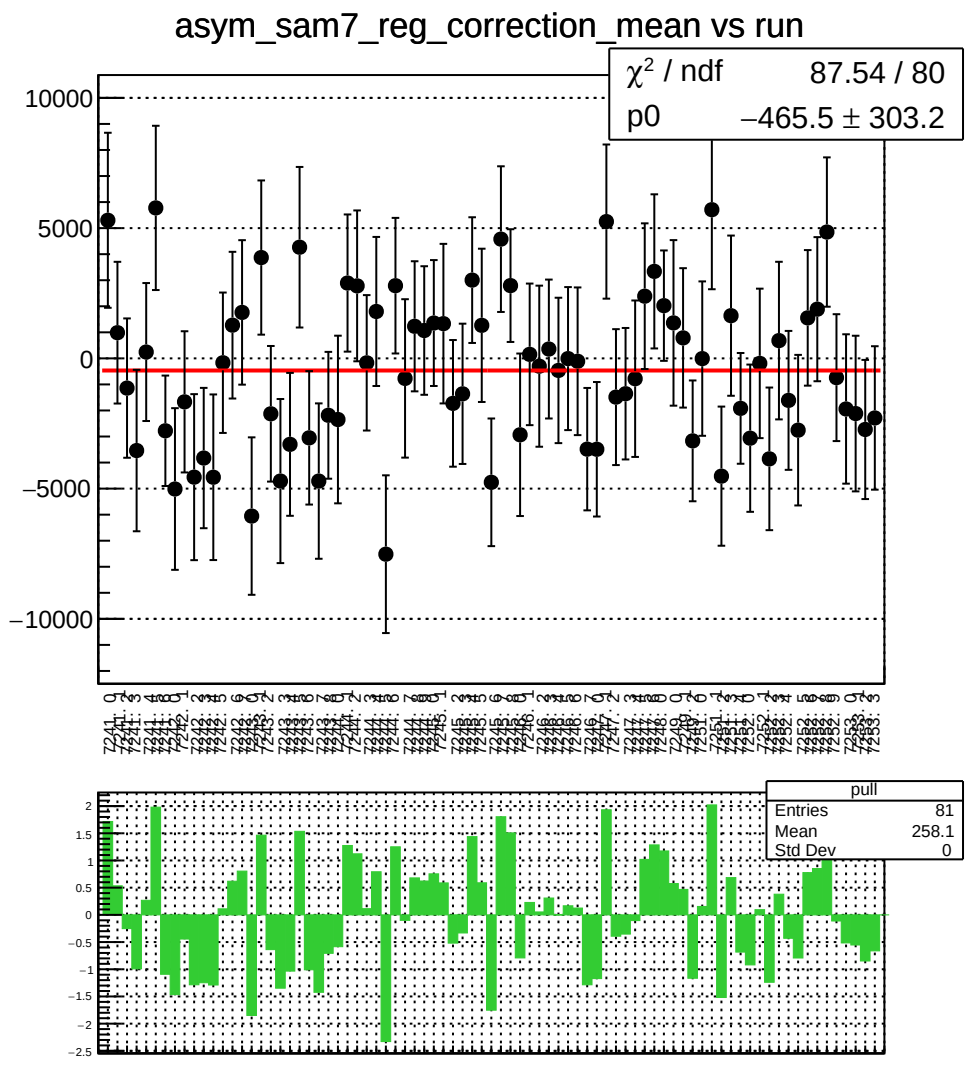

pull1D
Entries 81
Mean −0.05087
Std Dev 1.12

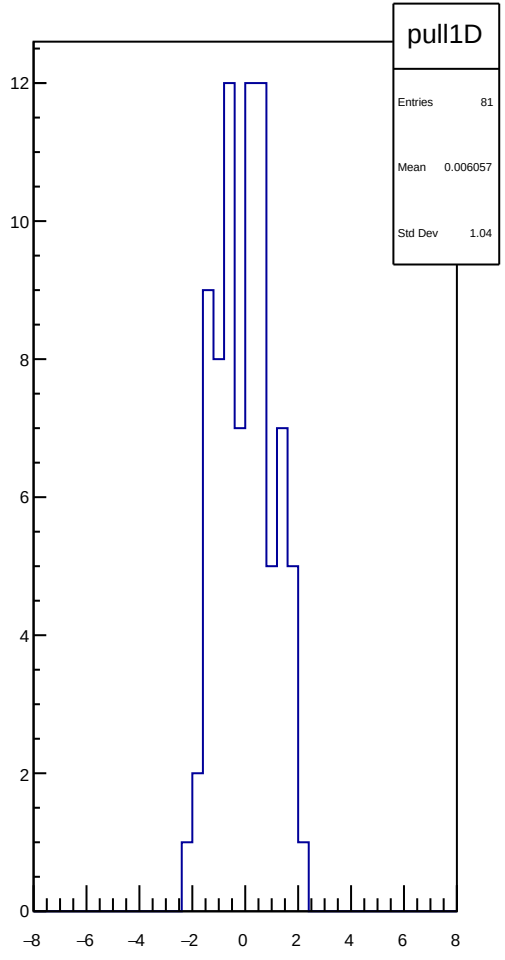

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.981e+05 / 80
p0 1.998e−11 ± 1.787e−14
0.1
0.08
0.06
0.04
0.02

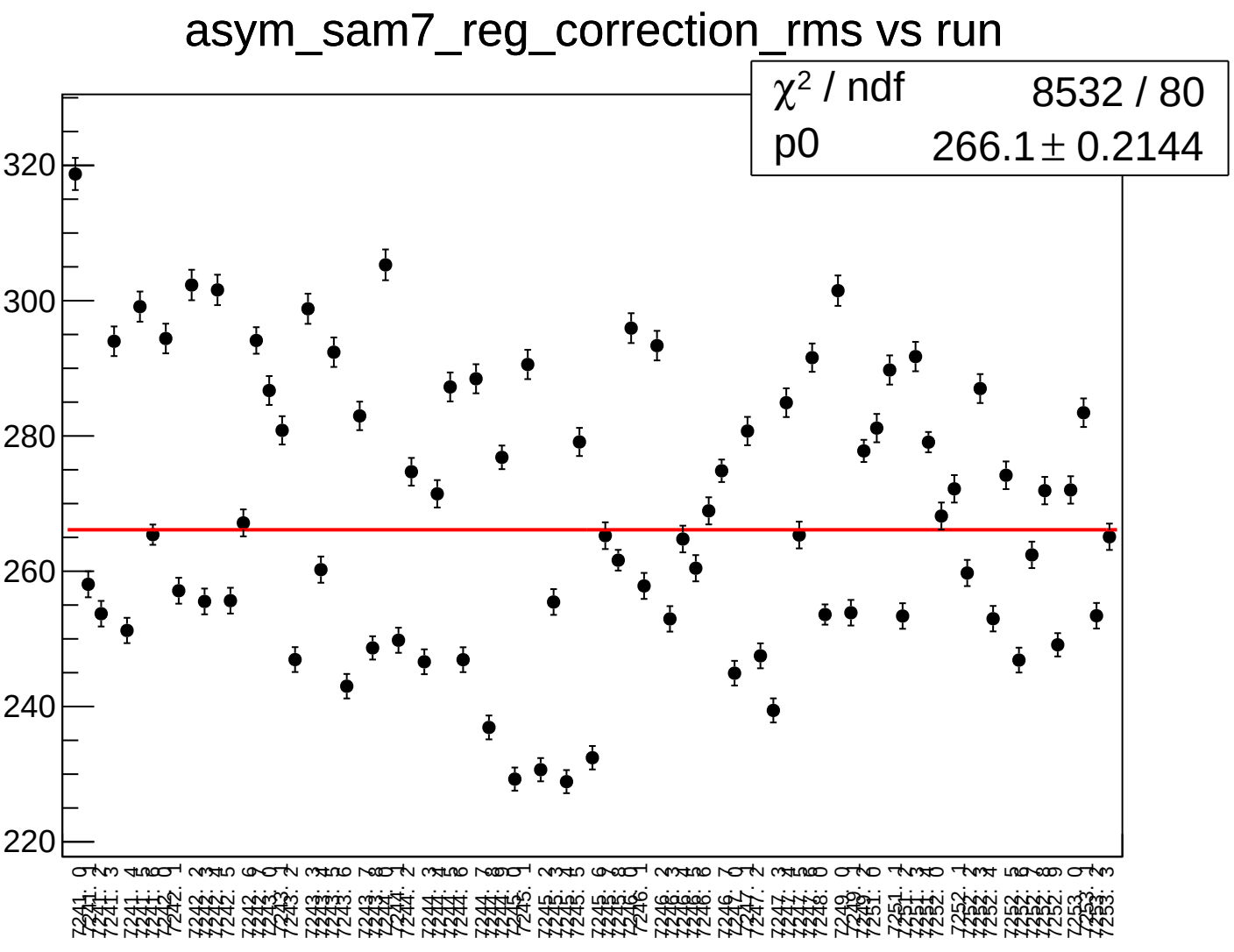

reg_asym_sam7_mean vs run
χ² / ndf 62.01 / 80
p0 −12.69 ± 68.36
pull
Entries 81
Mean −291.1
Std Dev 0

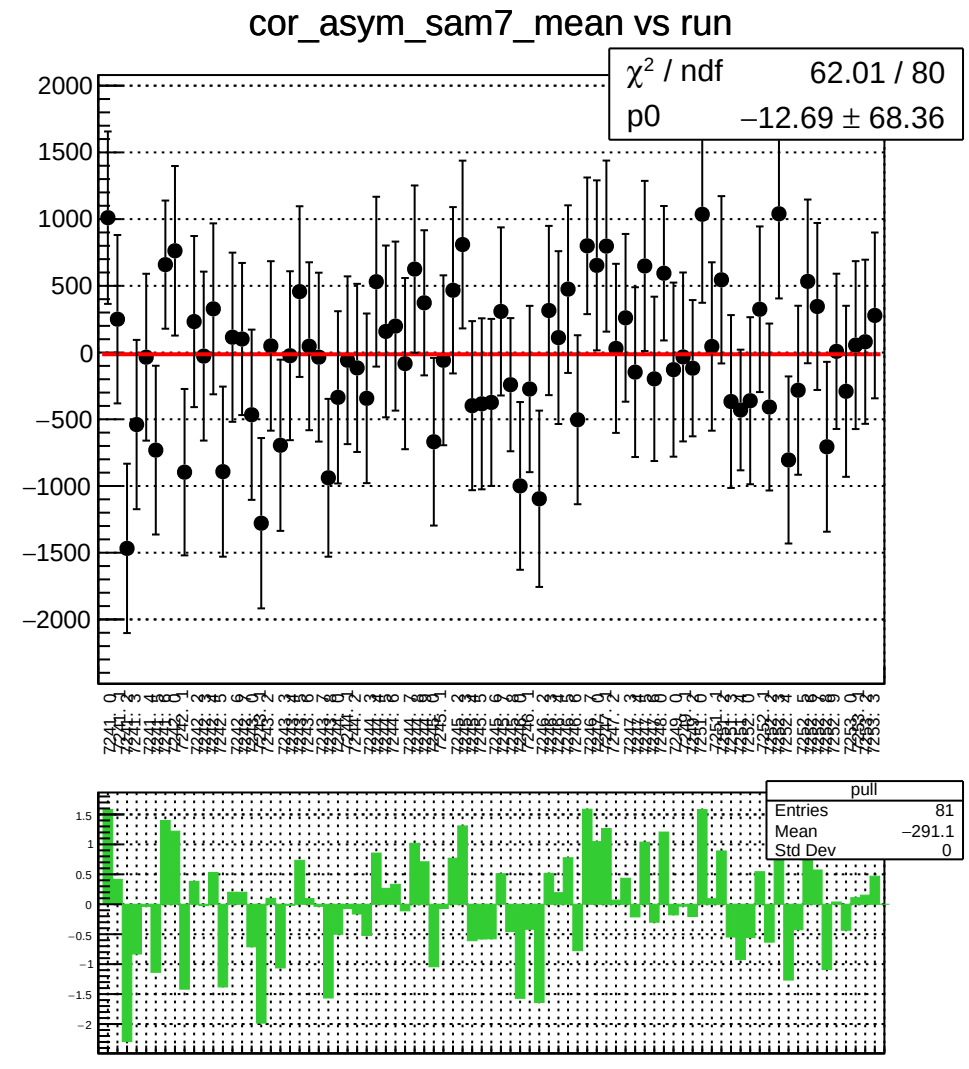

pull1D
Entries 81
Mean −0.007849
Std Dev 0.8749

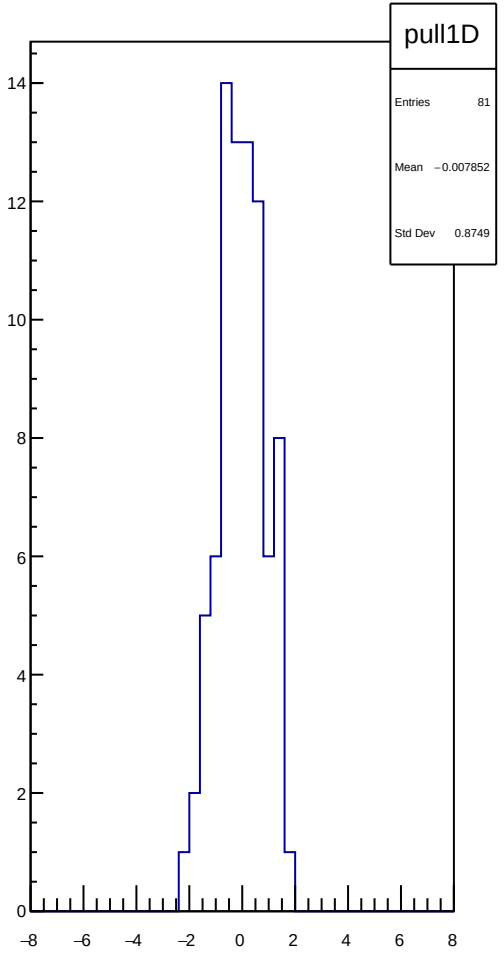

reg_asym_sam7_rms vs run
χ² / ndf 255.5 / 80
p0 60.16 ± 0.04834
63
62
61
60
59
58

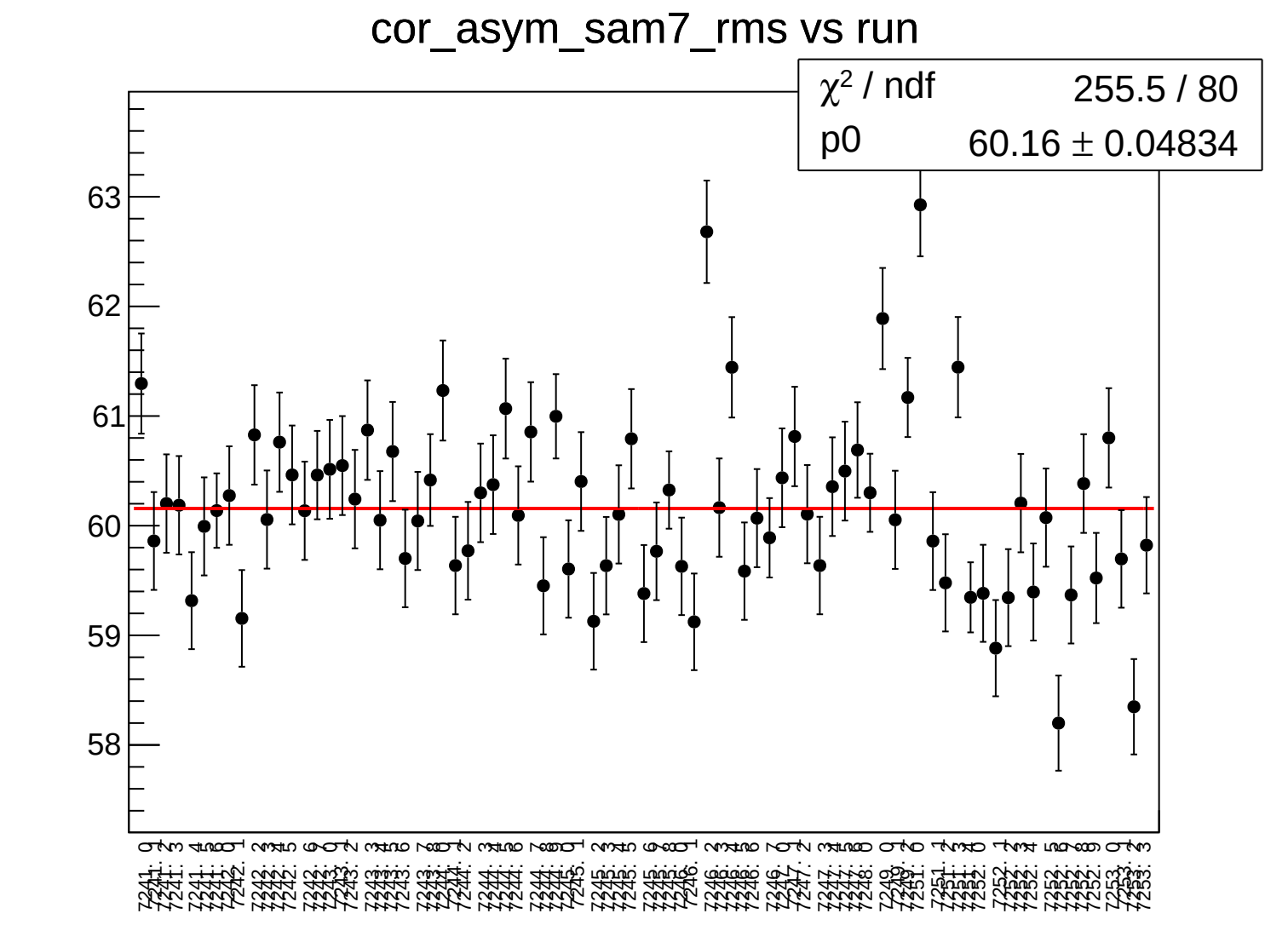

asym_sam7_reg_correction_mean vs run
χ² / ndf 87.54 / 80
p0 −465.5 ± 303.2
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 258.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

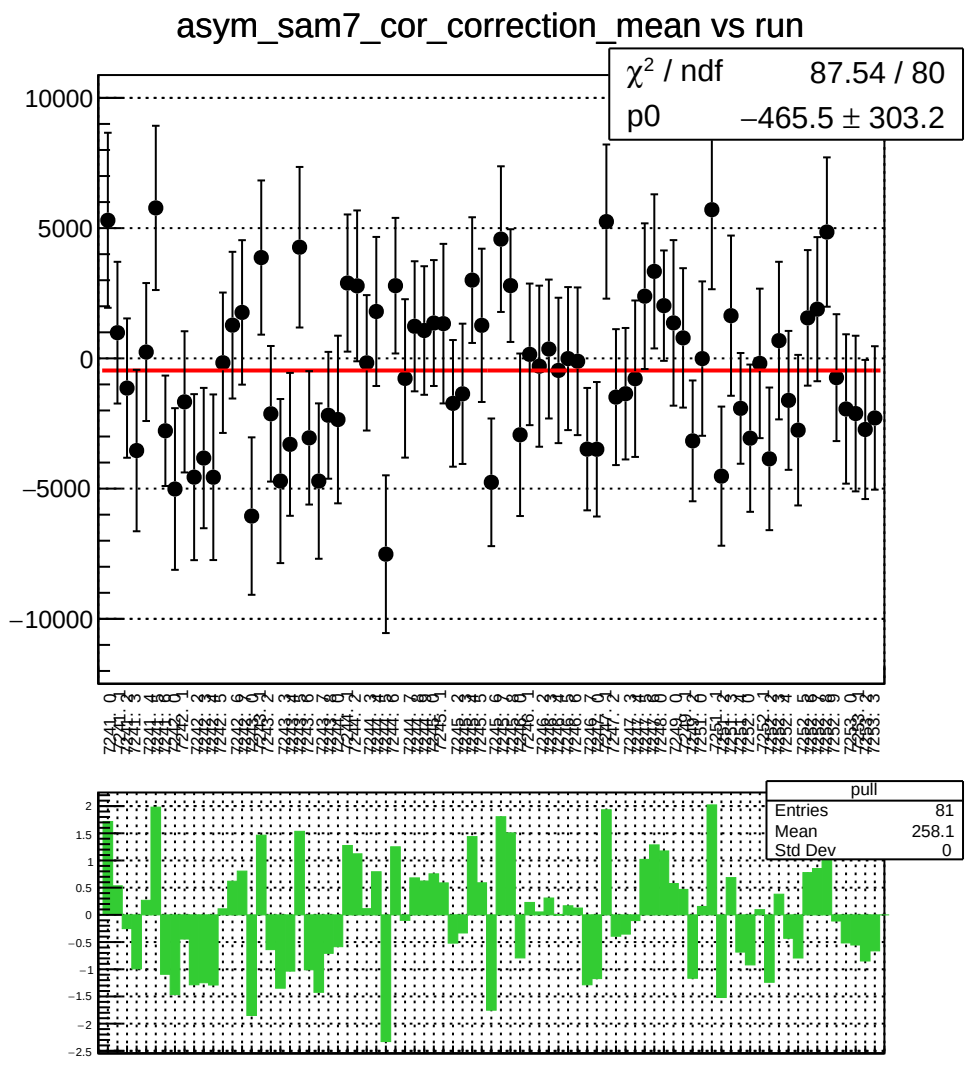

pull1D
Entries 81
Mean 0.006057
Std Dev 1.04
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

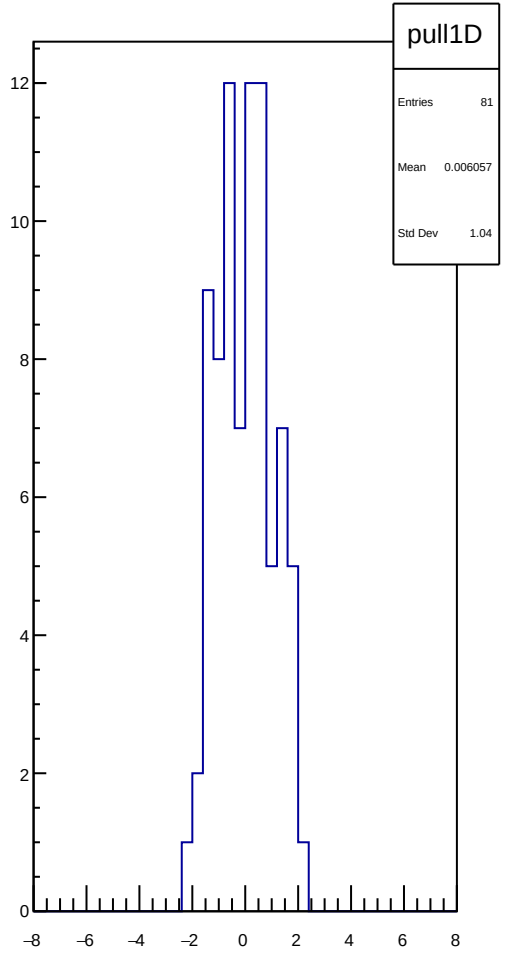

asym_sam7_reg_correction_rms vs run
χ² / ndf 8532 / 80
p0 266.1 ± 0.2144
320
300
280
260
240
220

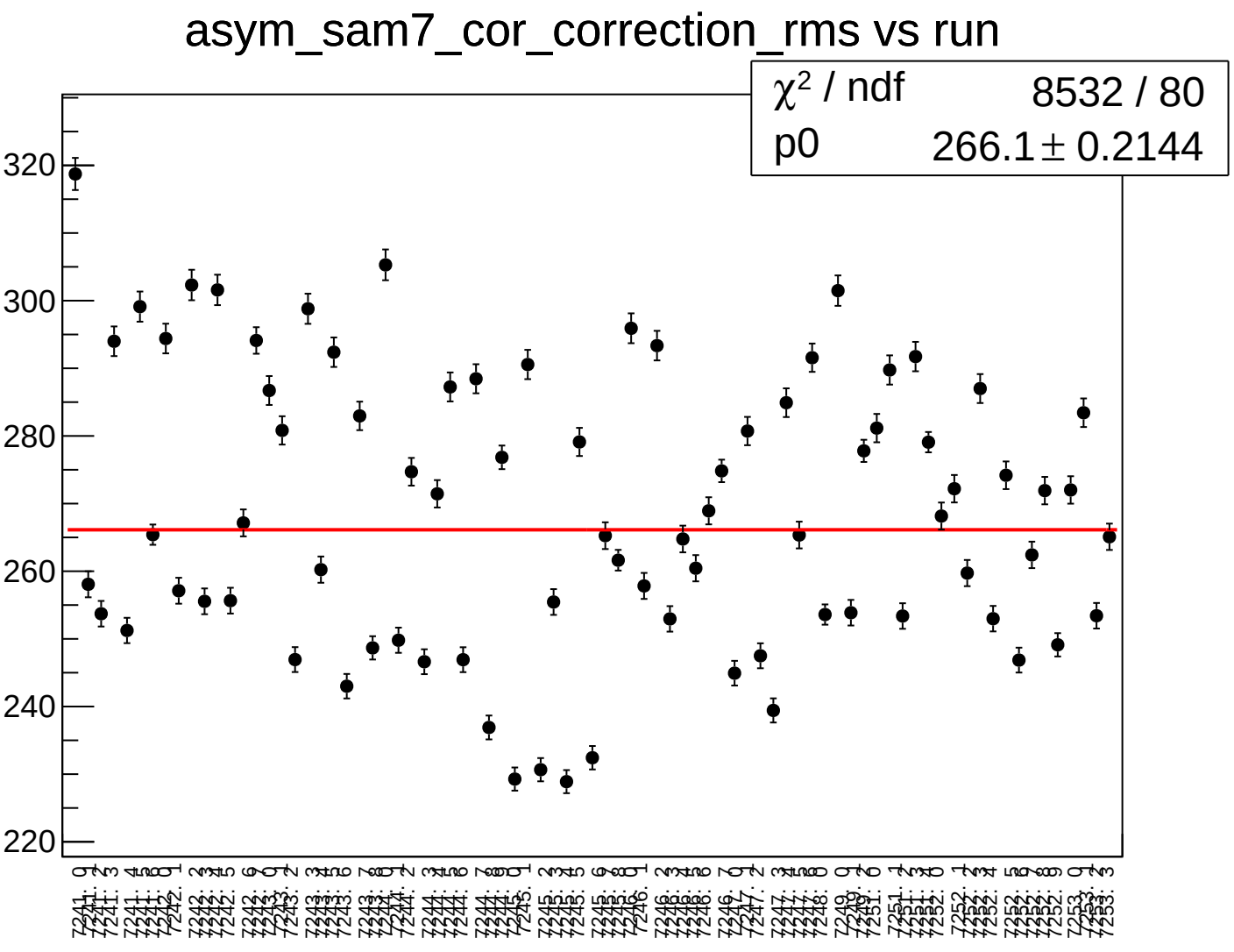

cor_asym_sam7_mean vs run
χ² / ndf 62.01 / 80
p0 −12.69 ± 68.36
pull
Entries 81
Mean −291.1
Std Dev 0

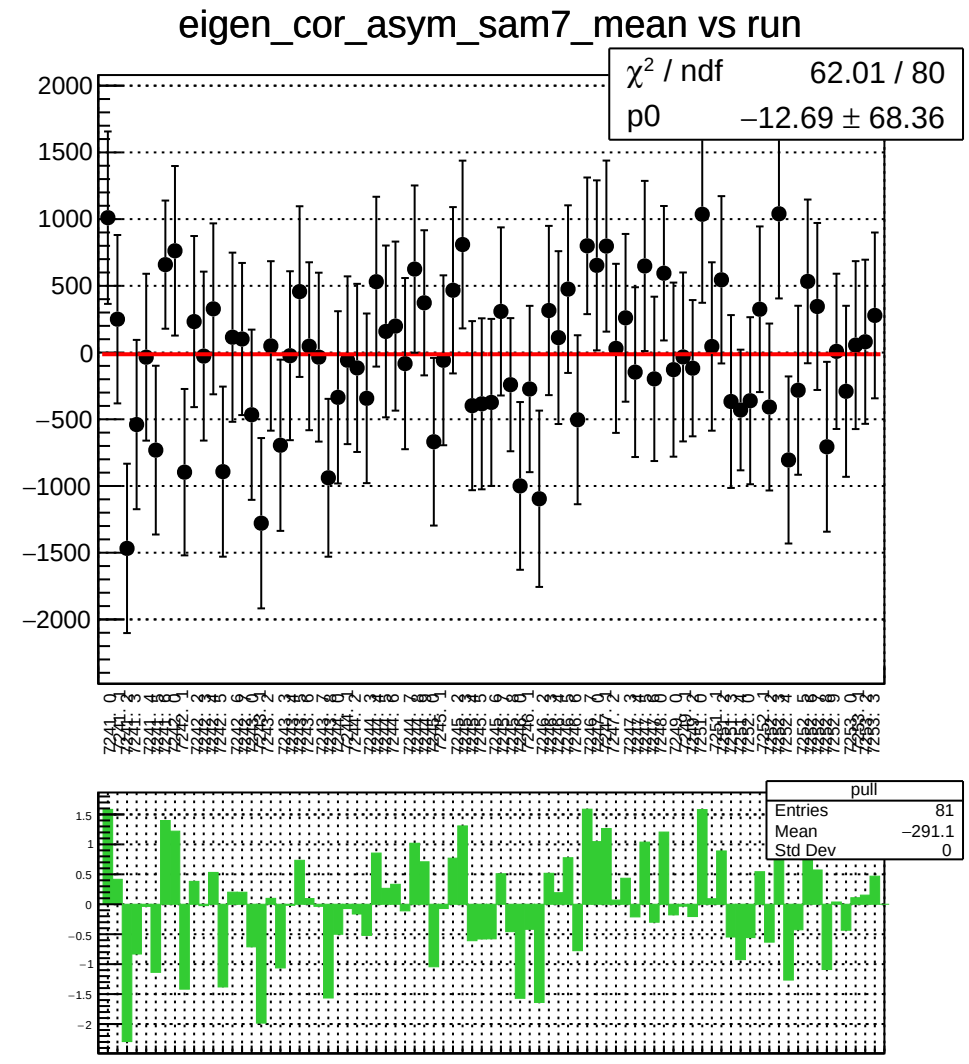

pull1D
Entries 81
Mean −0.007852
Std Dev 0.8749

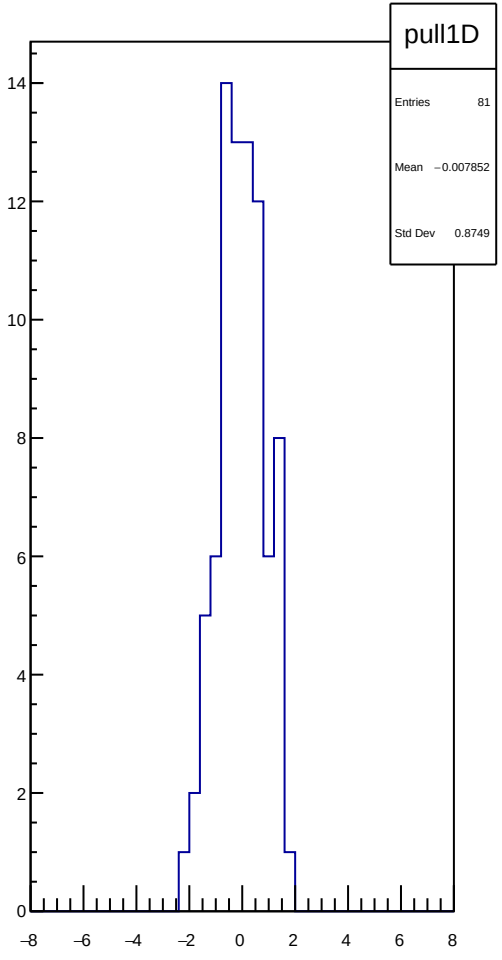

cor_asym_sam7_rms vs run
χ² / ndf 255.5 / 80
p0 60.16 ± 0.04834
63
62
61
60
59
58

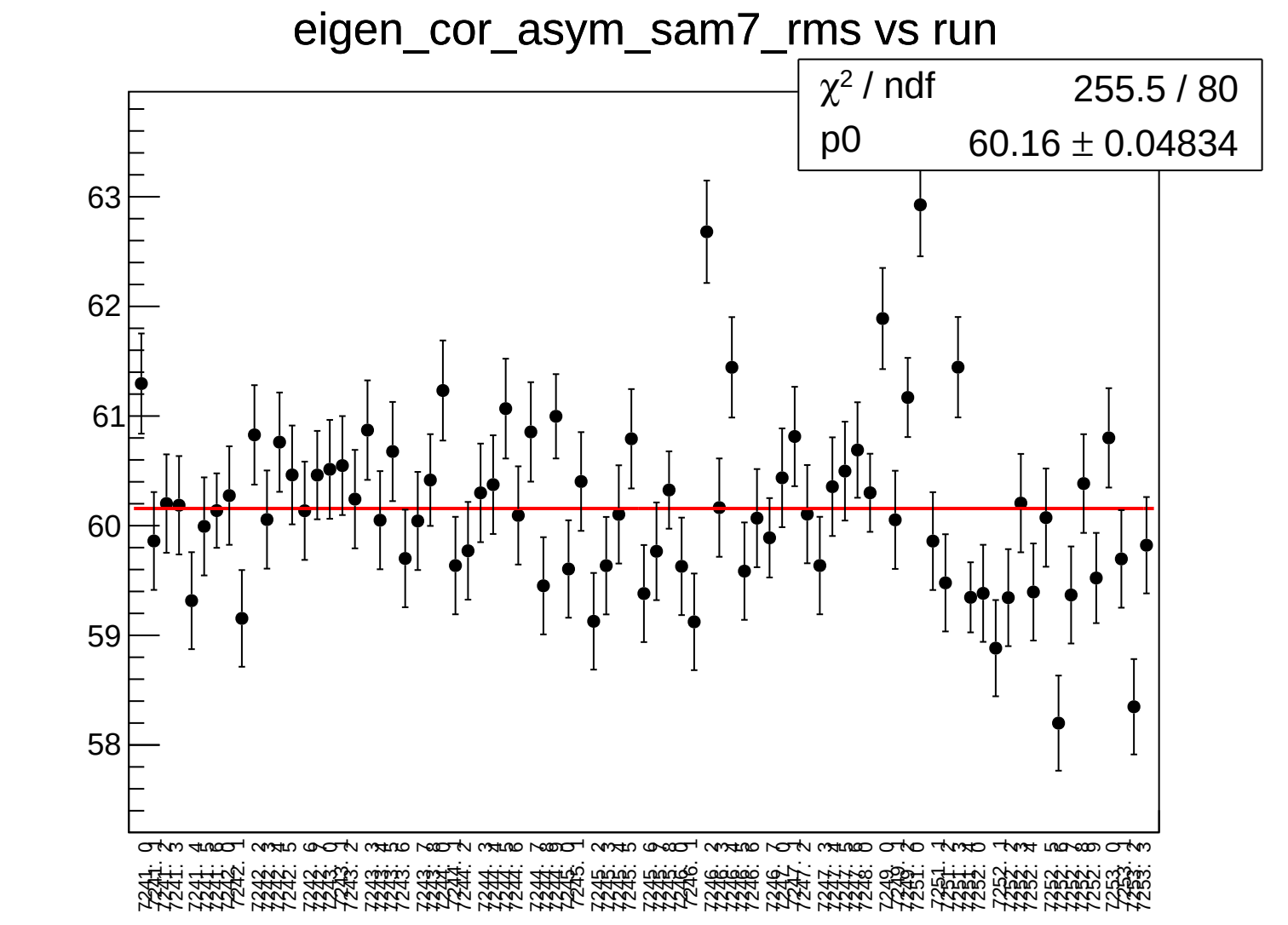

asym_sam7_cor_correction_mean vs run
χ² / ndf 87.54 / 80
p0 −465.5 ± 303.2
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 258.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

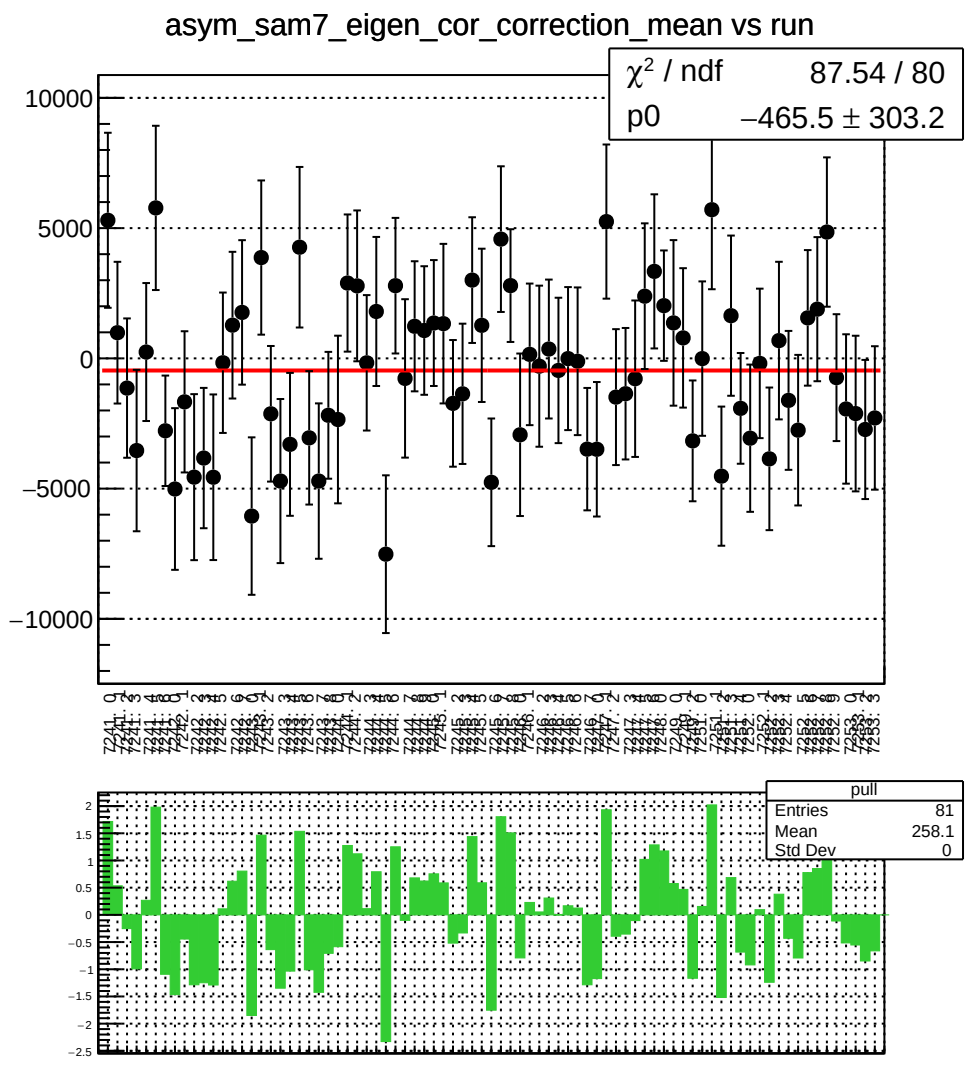

pull1D
Entries 81
Mean 0.006057
Std Dev 1.04
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

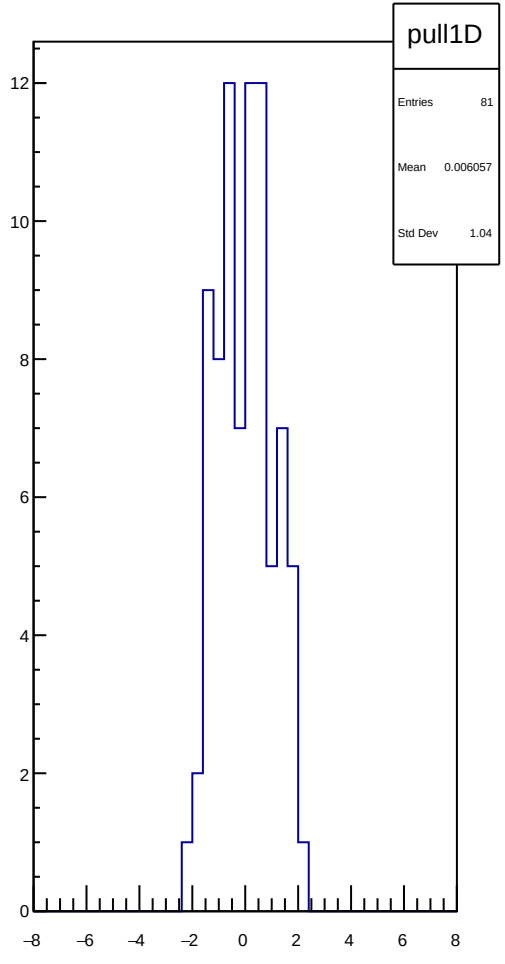

asym_sam7_cor_correction_rms vs run
χ² / ndf 8532 / 80
p0 266.1 ± 0.2144
320
300
280
260
240
220

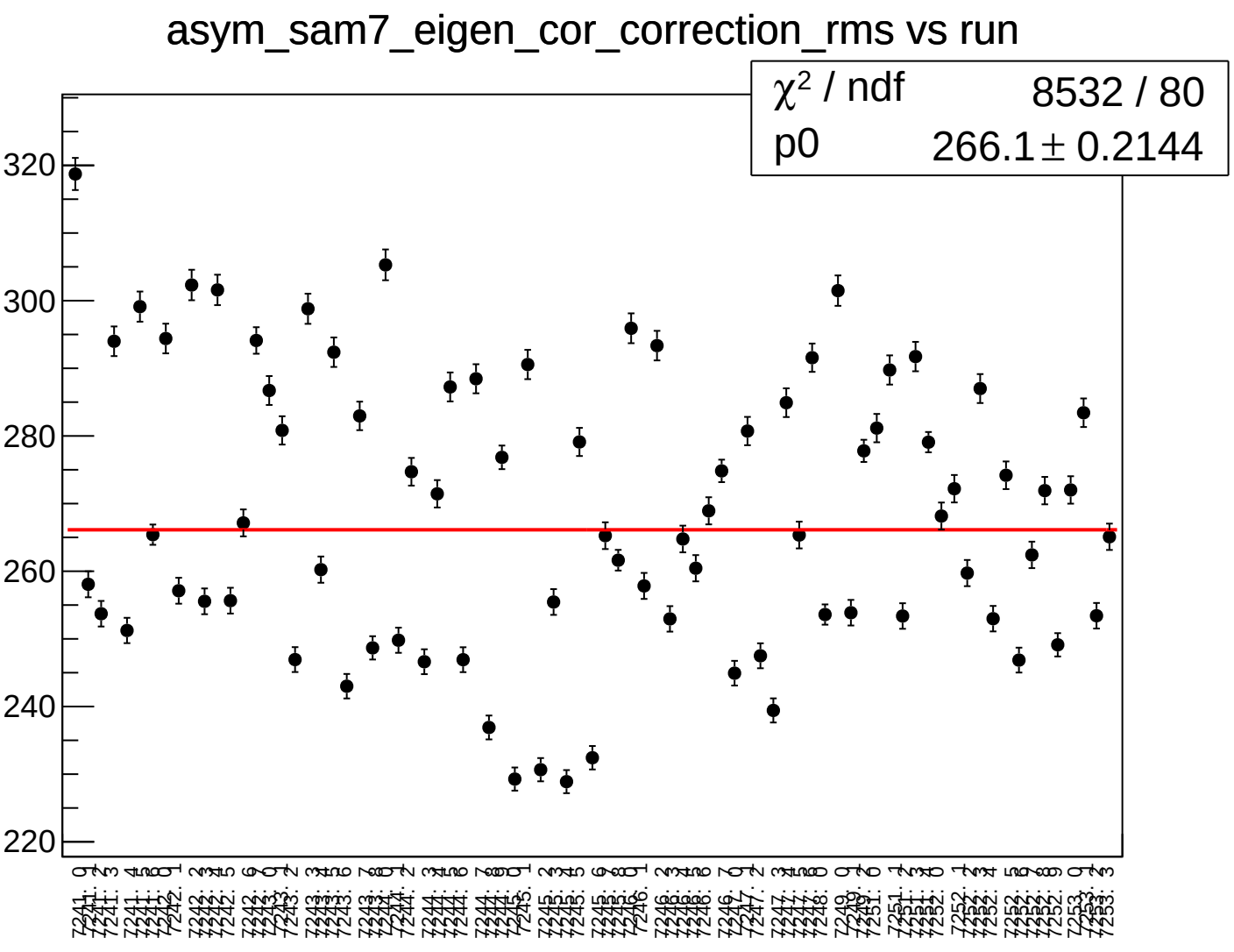

eigen_cor_asym_sam7_mean vs run
χ² / ndf 62.01 / 80
p0 −12.69 ± 68.36
pull
Entries 81
Mean −291.1
Std Dev 0

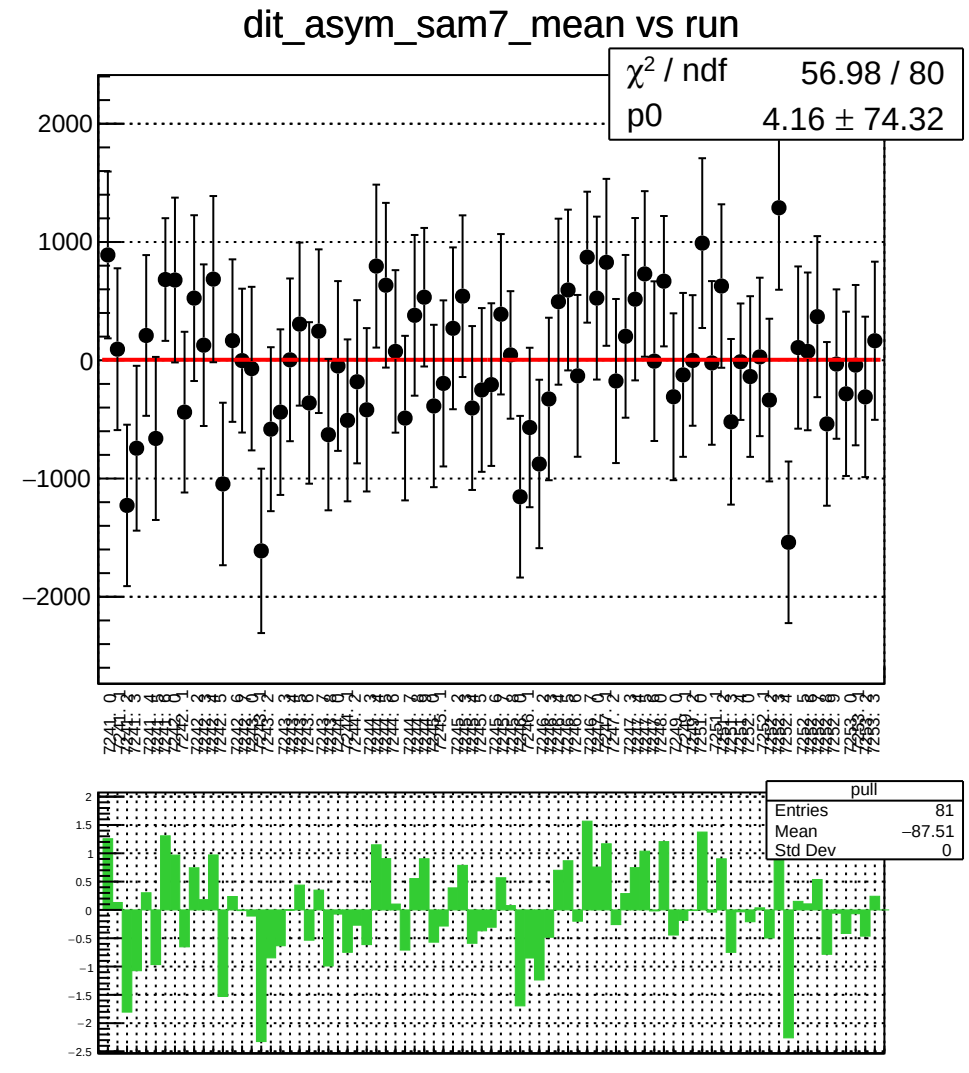

pull1D
Entries 81
Mean −0.007852
Std Dev 0.8749

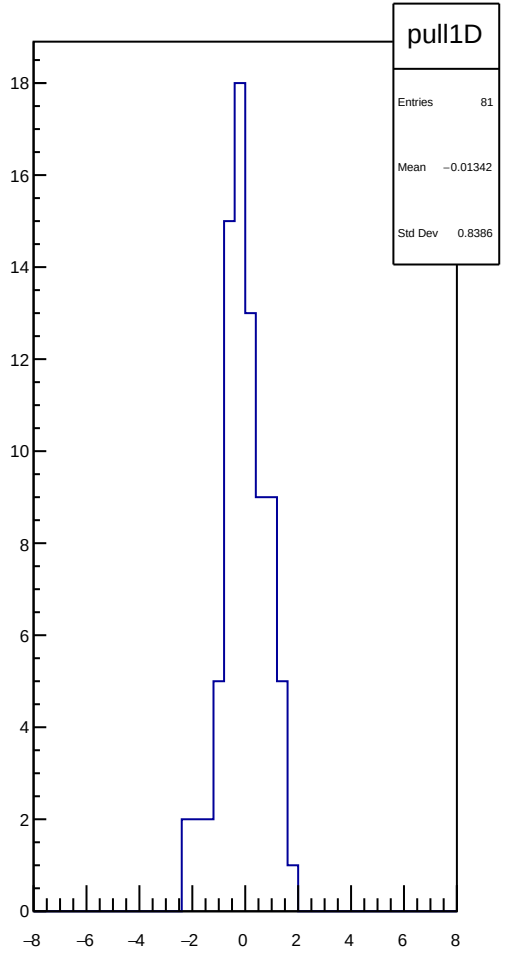

eigen_cor_asym_sam7_rms vs run
χ² / ndf 255.5 / 80
p0 60.16 ± 0.04834
63
62
61
60
59
58

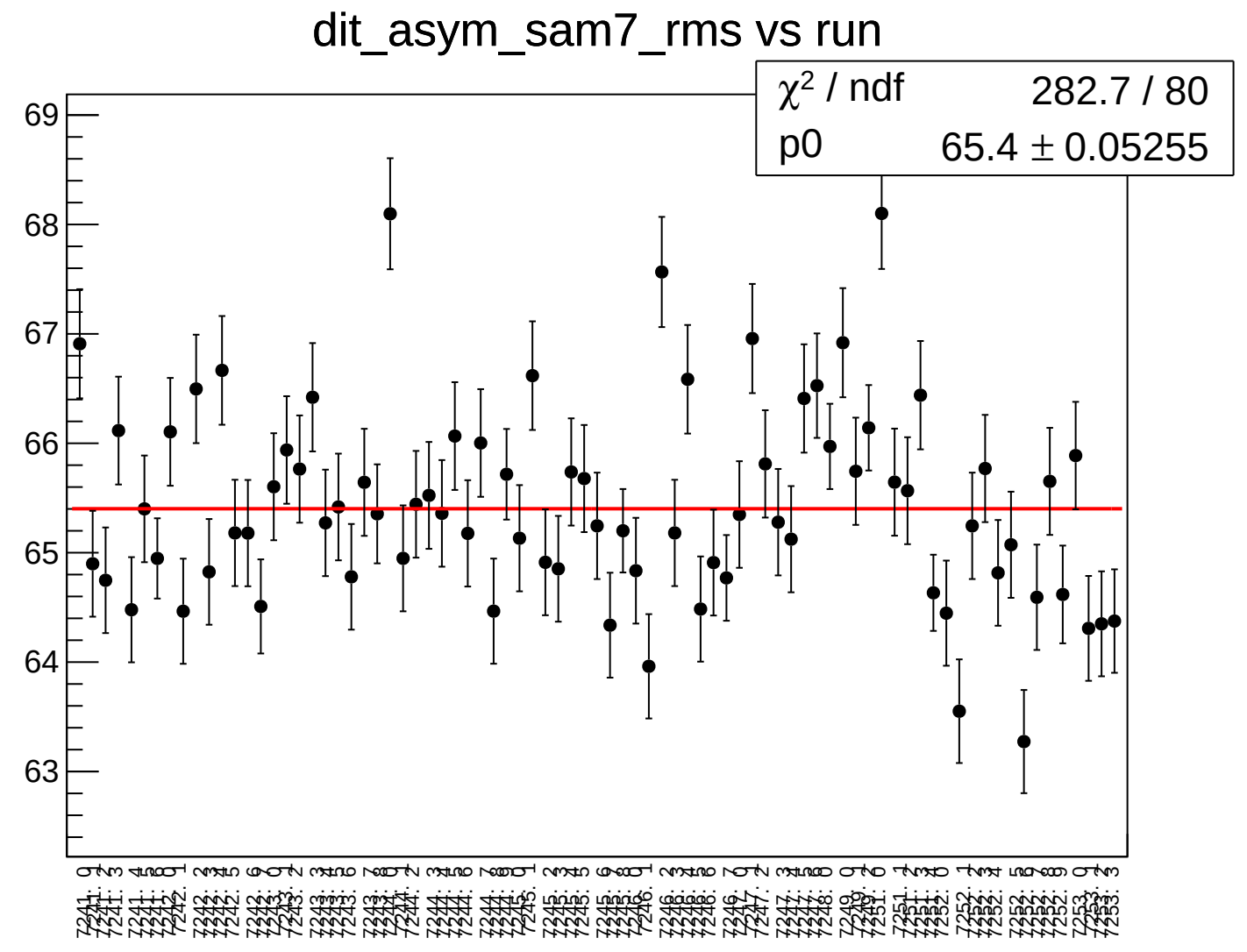

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 87.54 / 80
p0 −465.5 ± 303.2
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 258.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

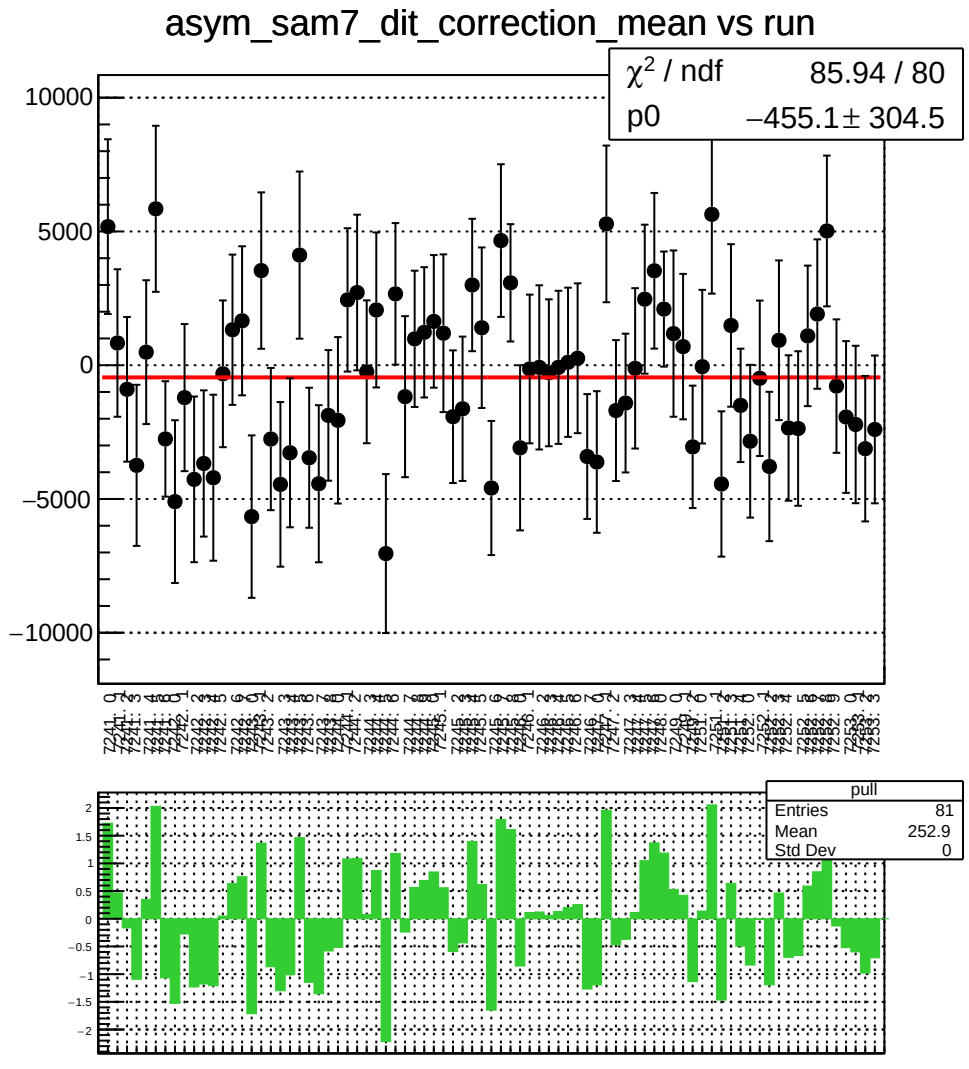

pull1D
Entries 81
Mean 0.006057
Std Dev 1.04
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

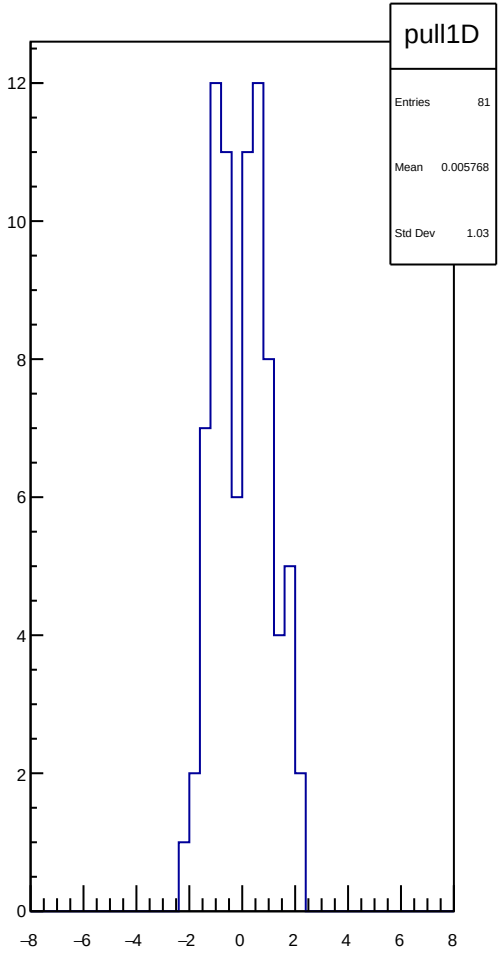

asym_sam7_eigen_cor_correction_rms vs run
χ² / ndf 8532 / 80
p0 266.1 ± 0.2144
320
300
280
260
240
220

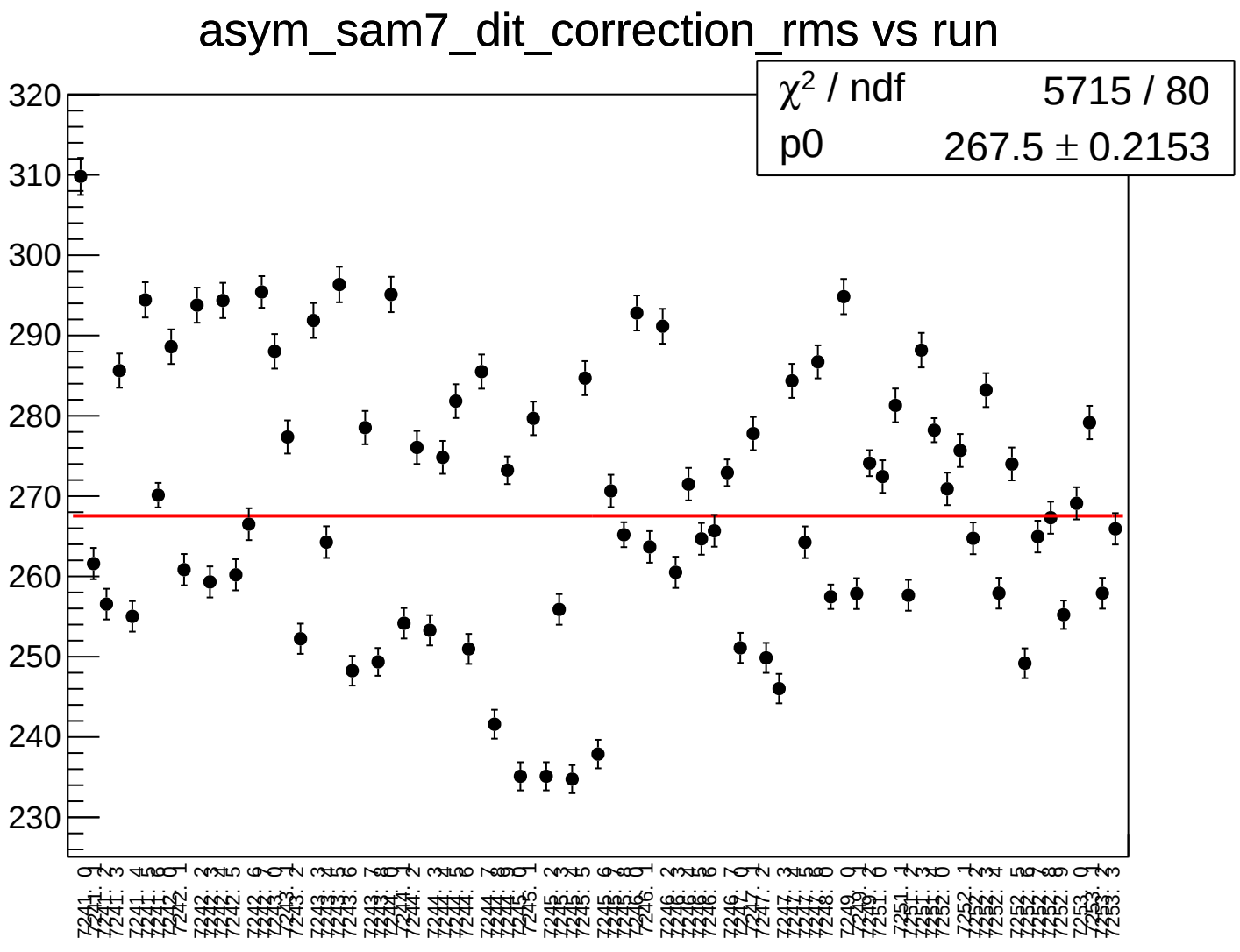

dit_asym_sam7_mean vs run
χ² / ndf 56.98 / 80
p0 4.16 ± 74.32
2000
1000
0
−1000
−2000
pull
Entries 81
Mean −87.51
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

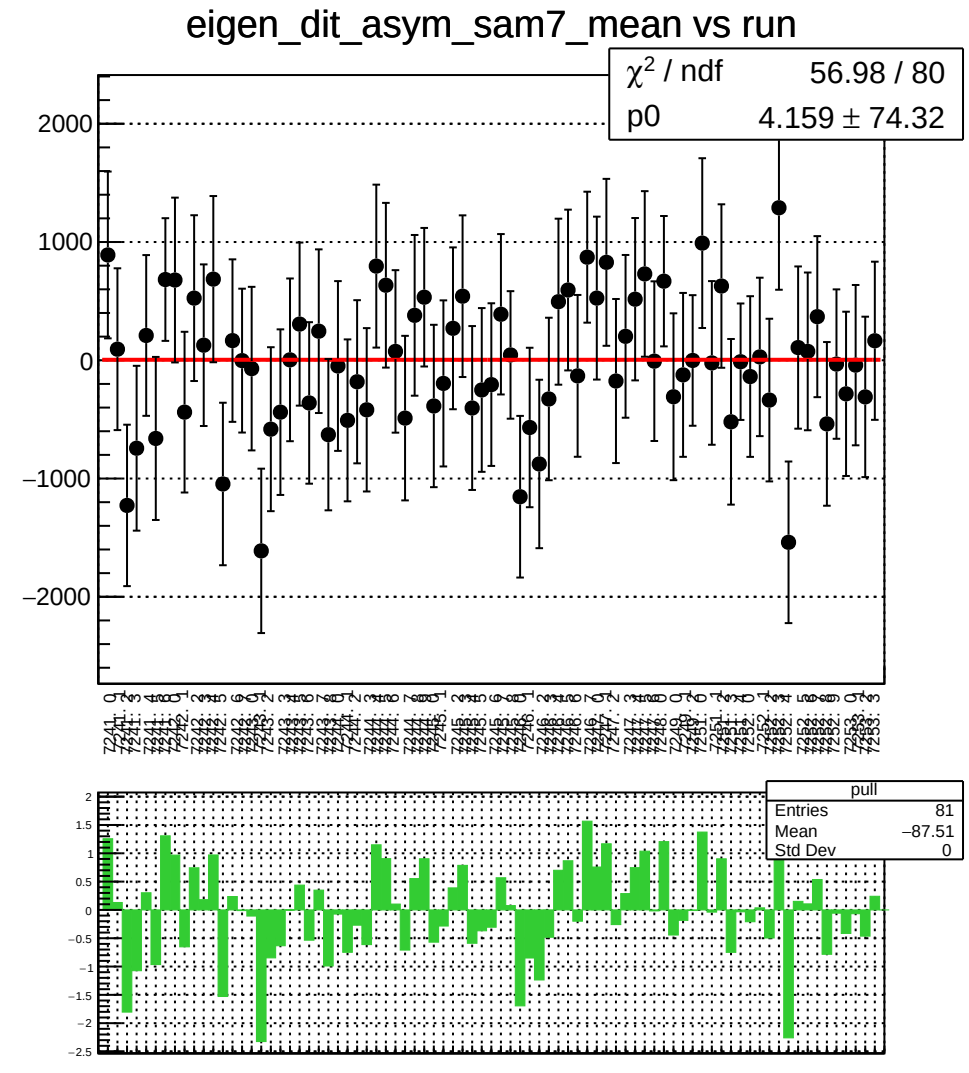

pull1D
Entries 81
Mean −0.01342
Std Dev 0.8386
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

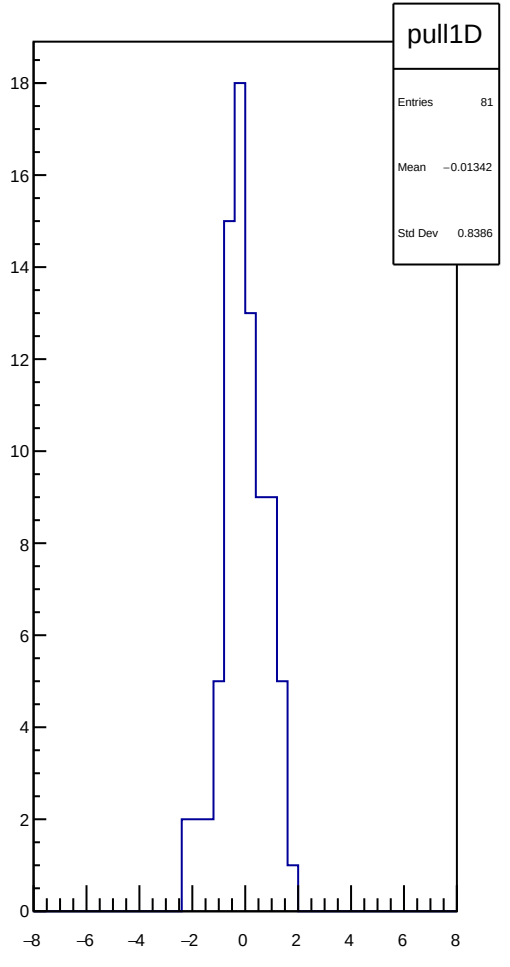

dit_asym_sam7_rms vs run
χ² / ndf 282.7 / 80
p0 65.4 ± 0.05255
69
68
67
66
65
64
63

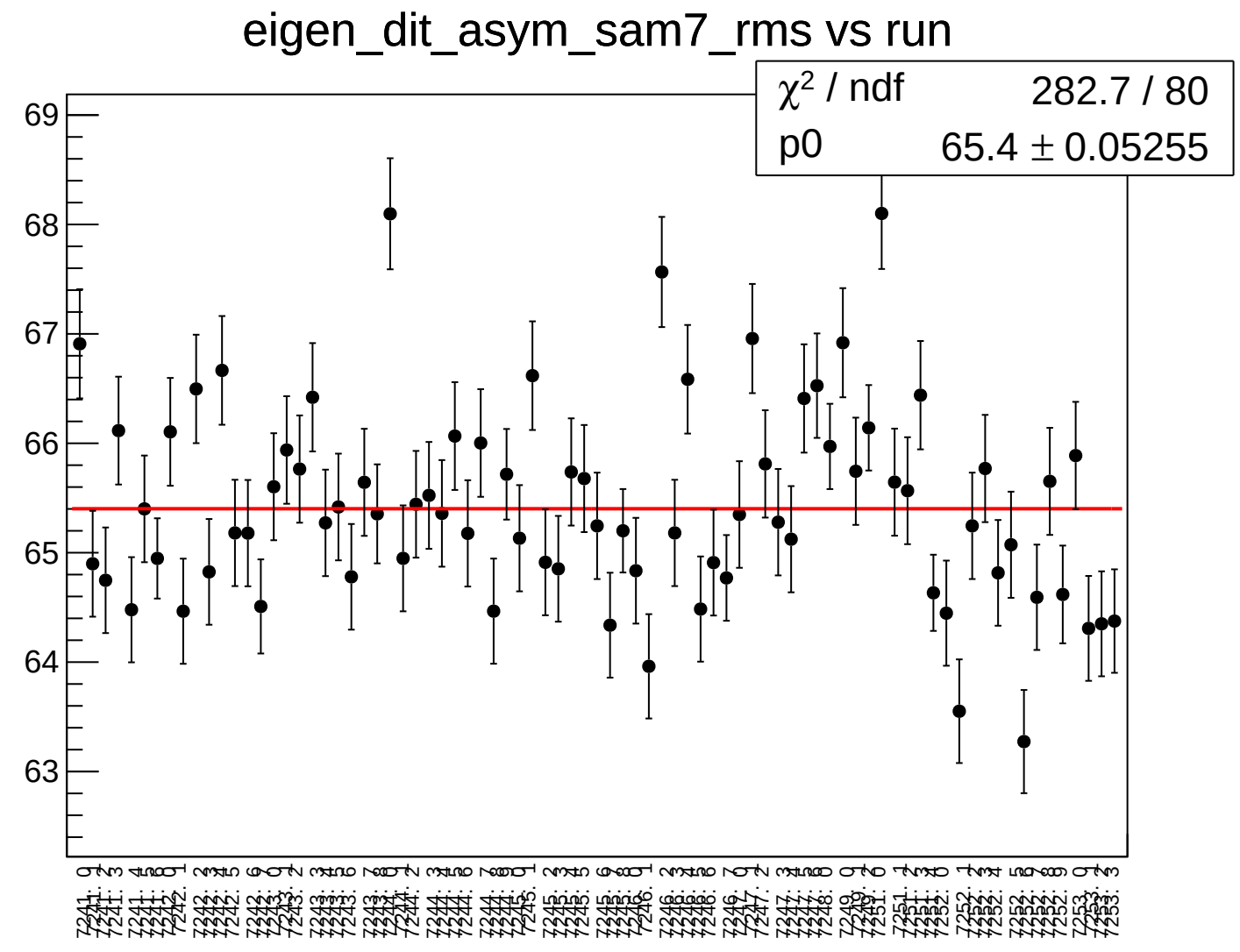

asym_sam7_dit_correction_mean vs run
χ² / ndf 85.94 / 80
p0 −455.1± 304.5
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 252.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

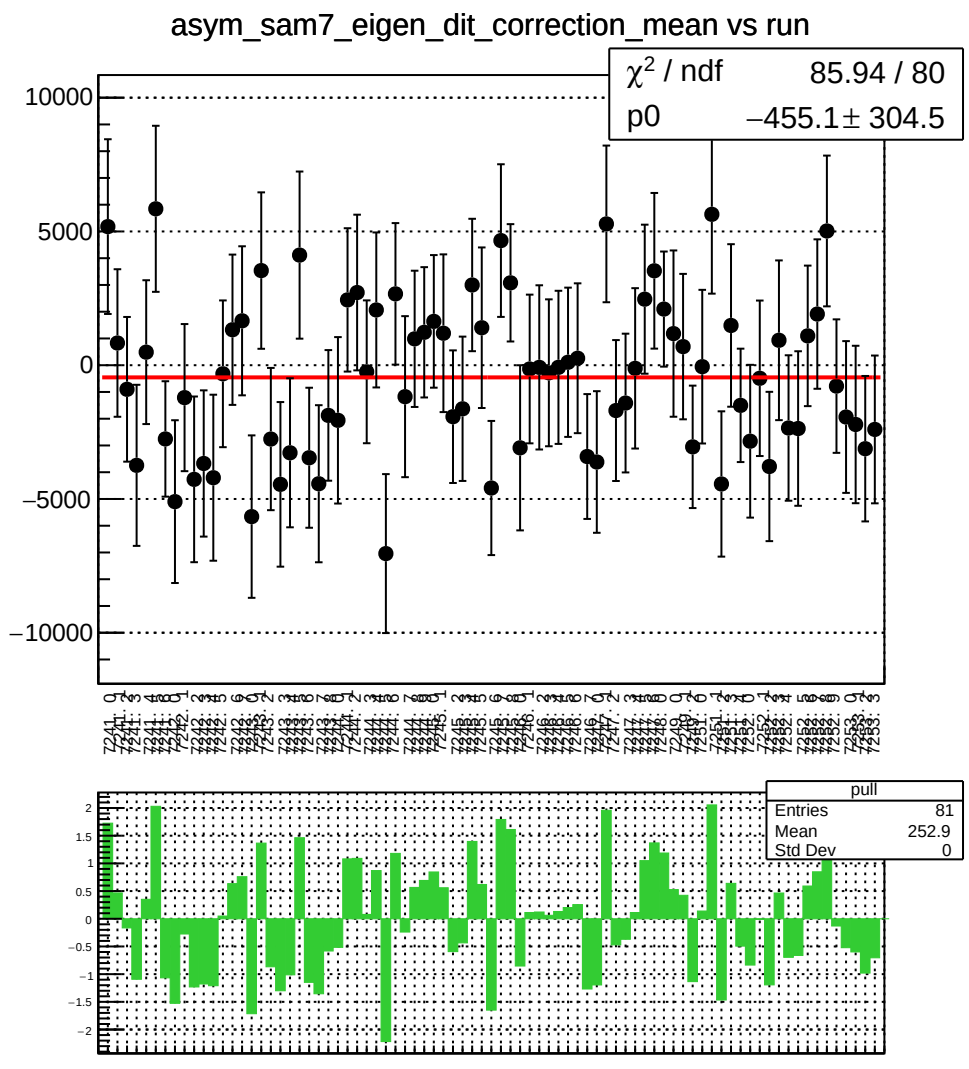

pull1D
Entries 81
Mean 0.005768
Std Dev 1.03
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

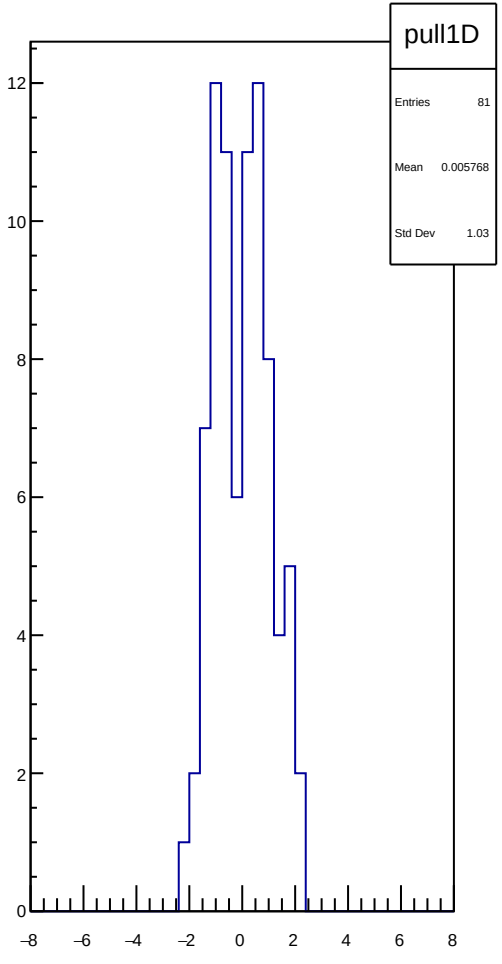

asym_sam7_dit_correction_rms vs run
χ² / ndf 5715 / 80
p0 267.5 ± 0.2153
320
310
300
290
280
270
260
250
240
230

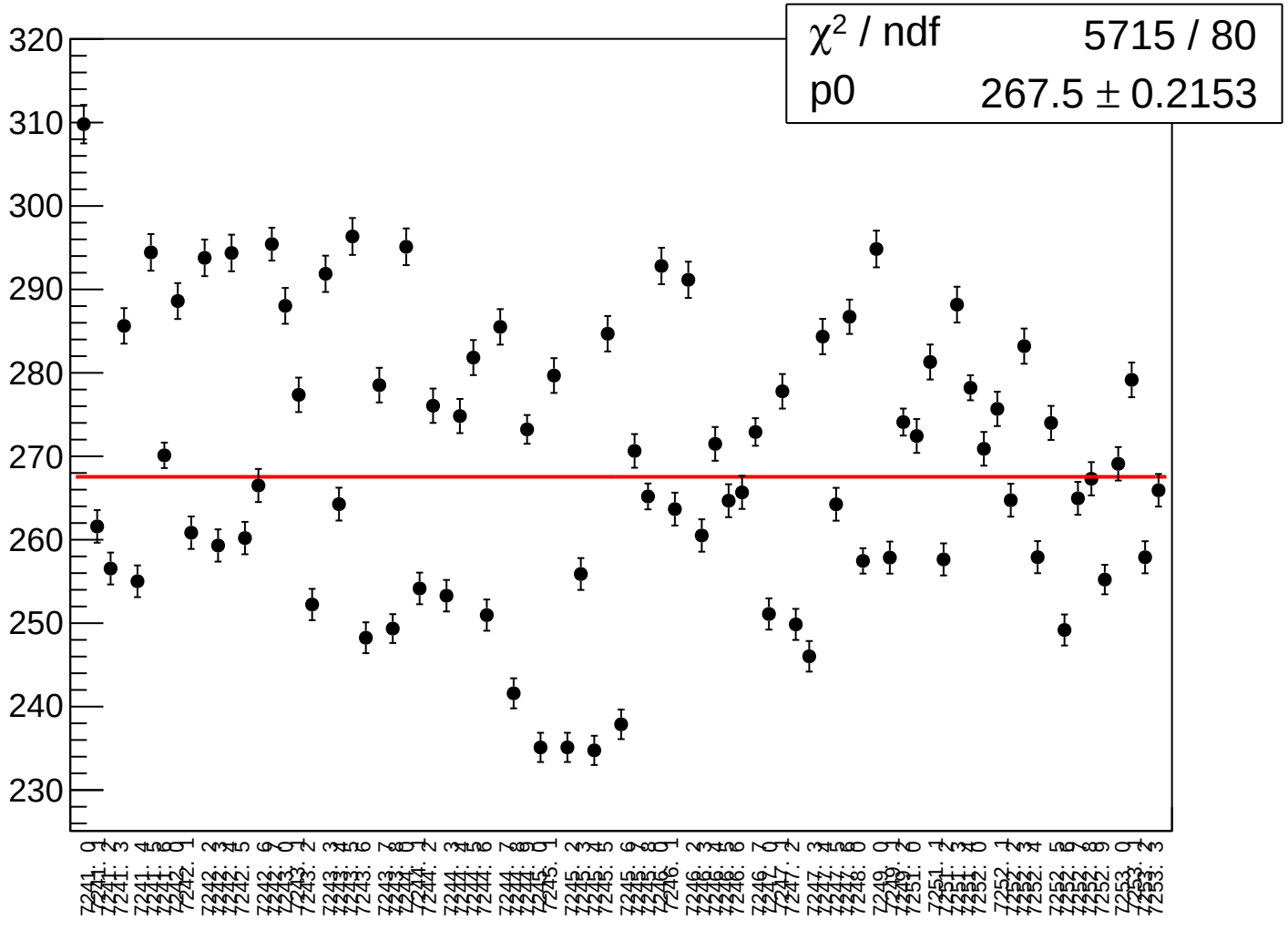

eigen_dit_asym_sam7_mean vs run
χ² / ndf 56.98 / 80
p0 4.159 ± 74.32
2000
1000
0
−1000
−2000
pull
Entries 81
Mean −87.51
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

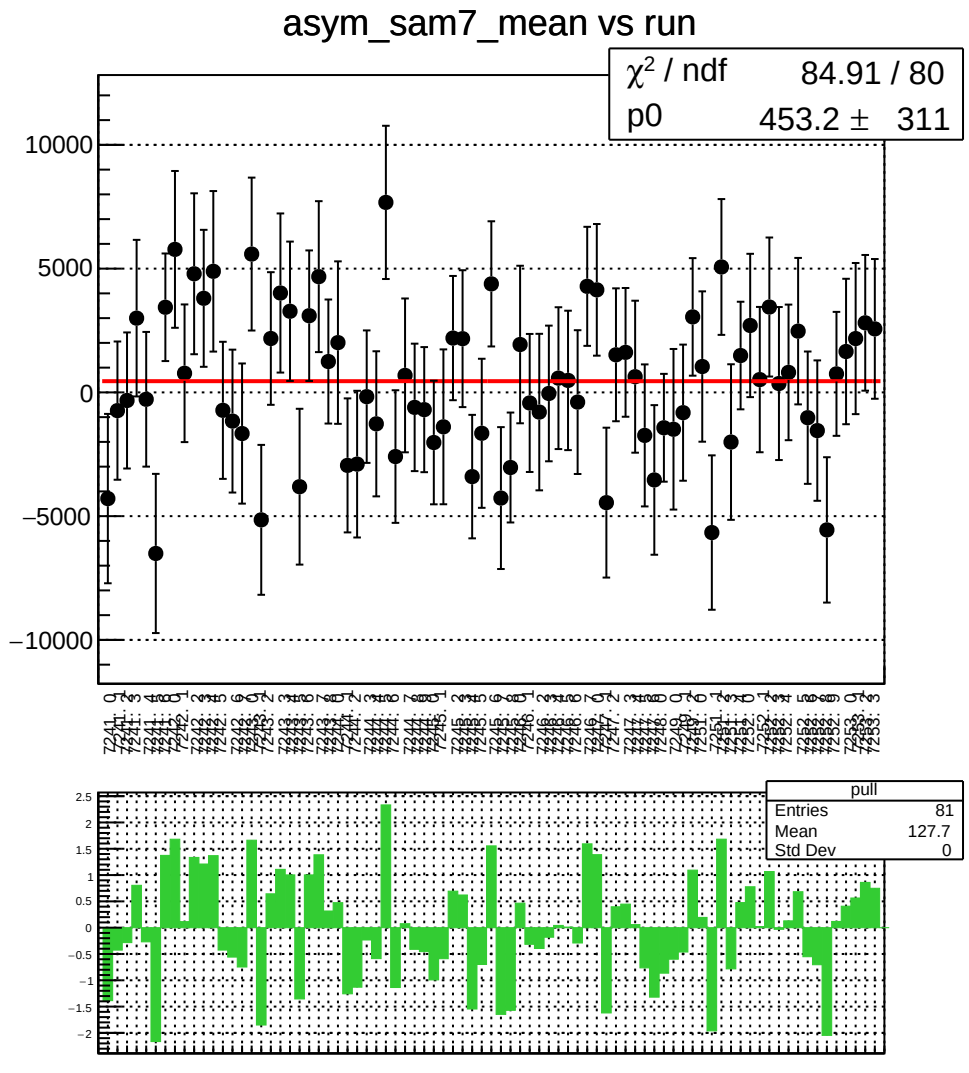

pull1D
Entries 81
Mean −0.01342
Std Dev 0.8386
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

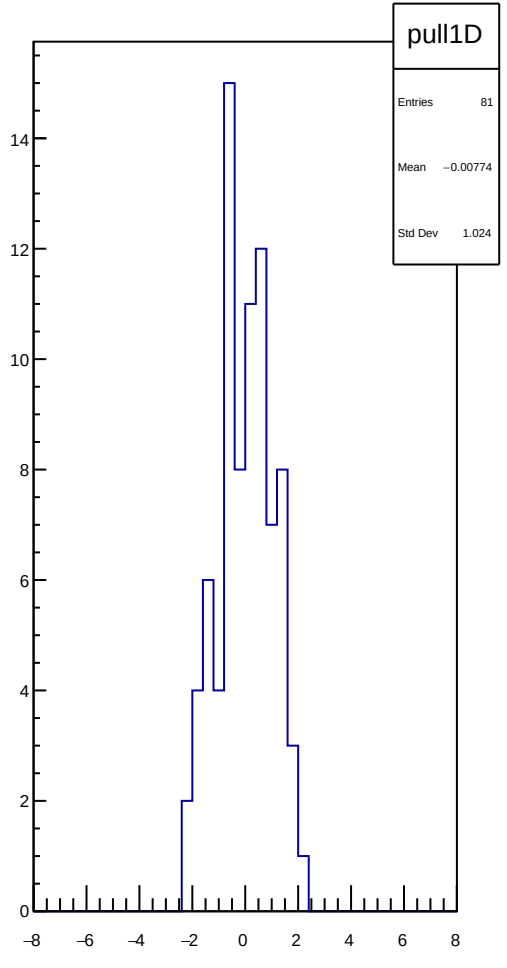

eigen_dit_asym_sam7_rms vs run
χ² / ndf 282.7 / 80
p0 65.4 ± 0.05255
69
68
67
66
65
64
63

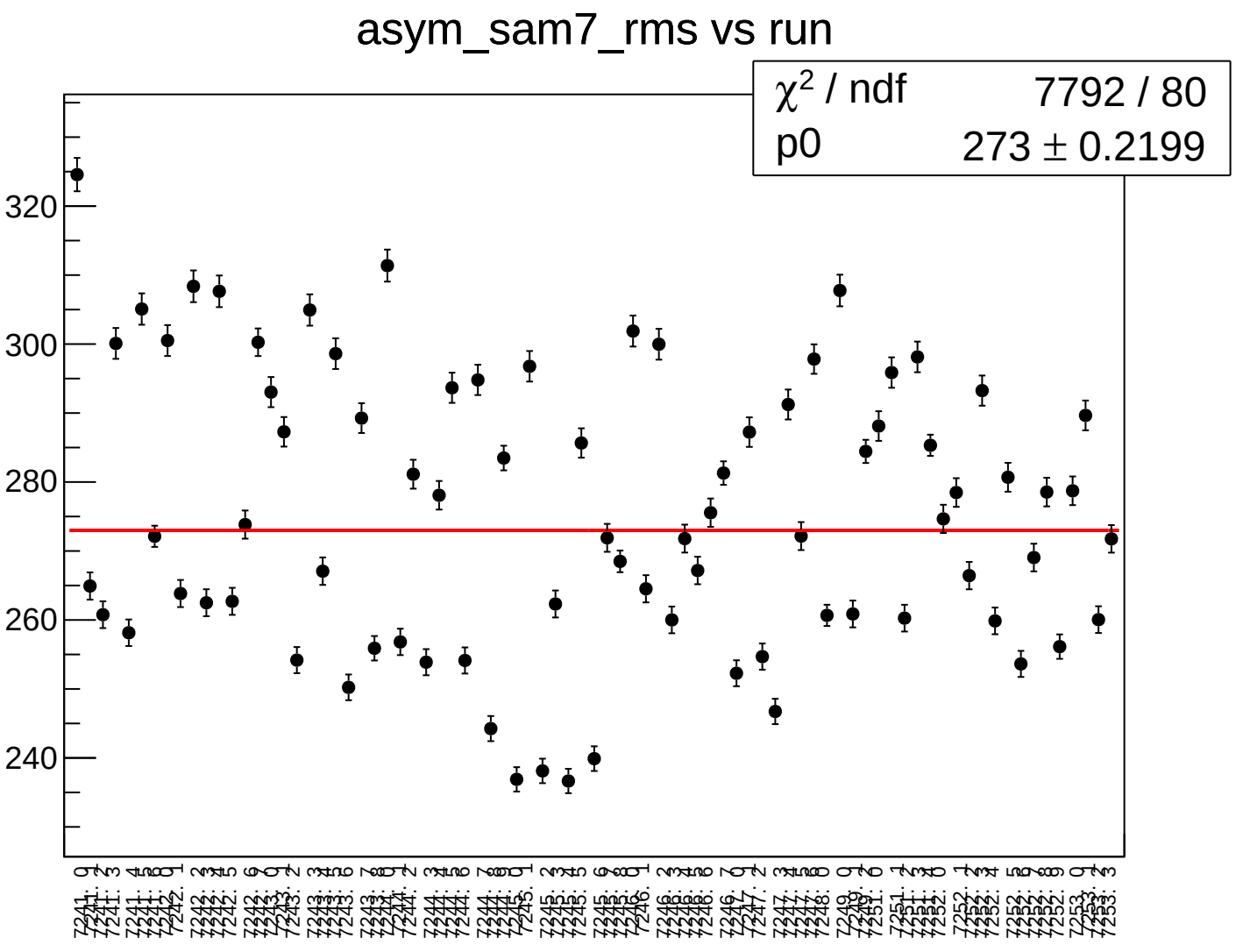

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 85.94 / 80
p0 −455.1± 304.5
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 252.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

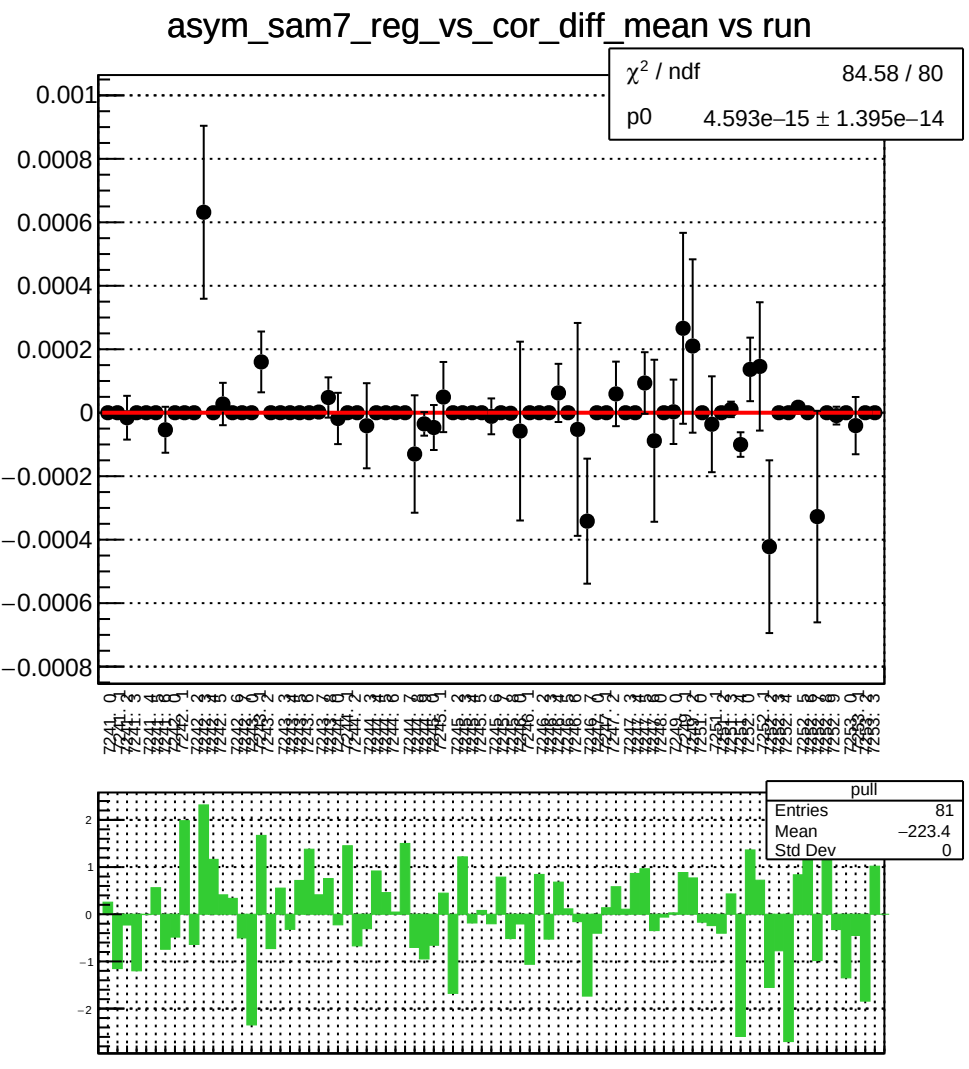

pull1D
Entries 81
Mean 0.005768
Std Dev 1.03
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

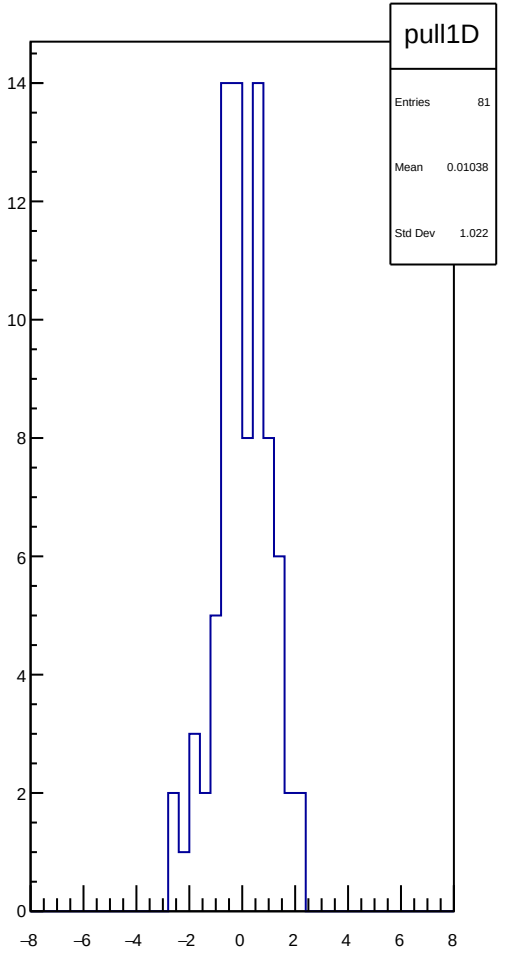

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 5715 / 80
p0 267.5 ± 0.2153
320
310
300
290
280
270
260
250
240
230

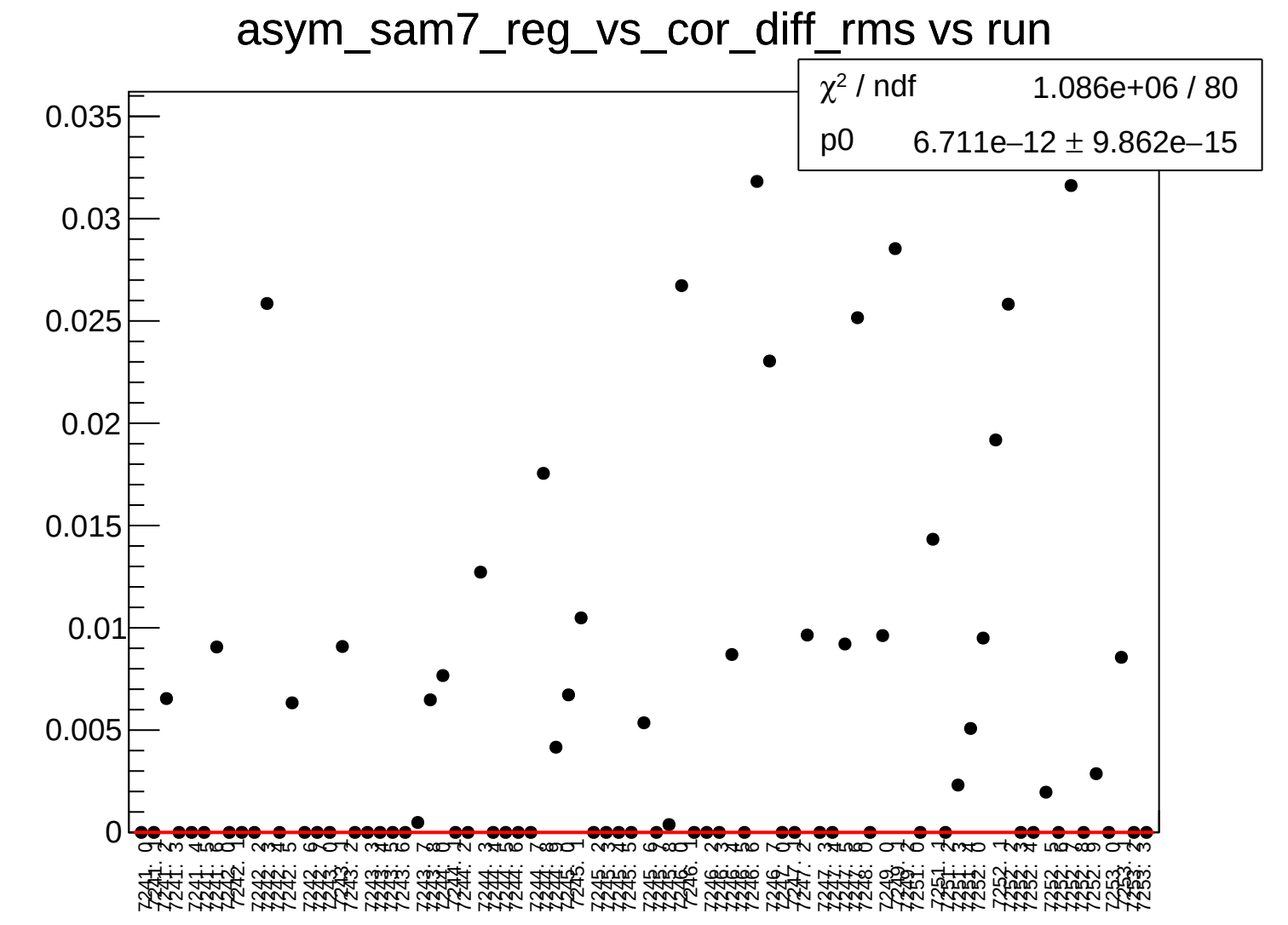

asym_sam7_mean vs run
χ² / ndf 84.91 / 80
p0 453.2 ± 311
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 127.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

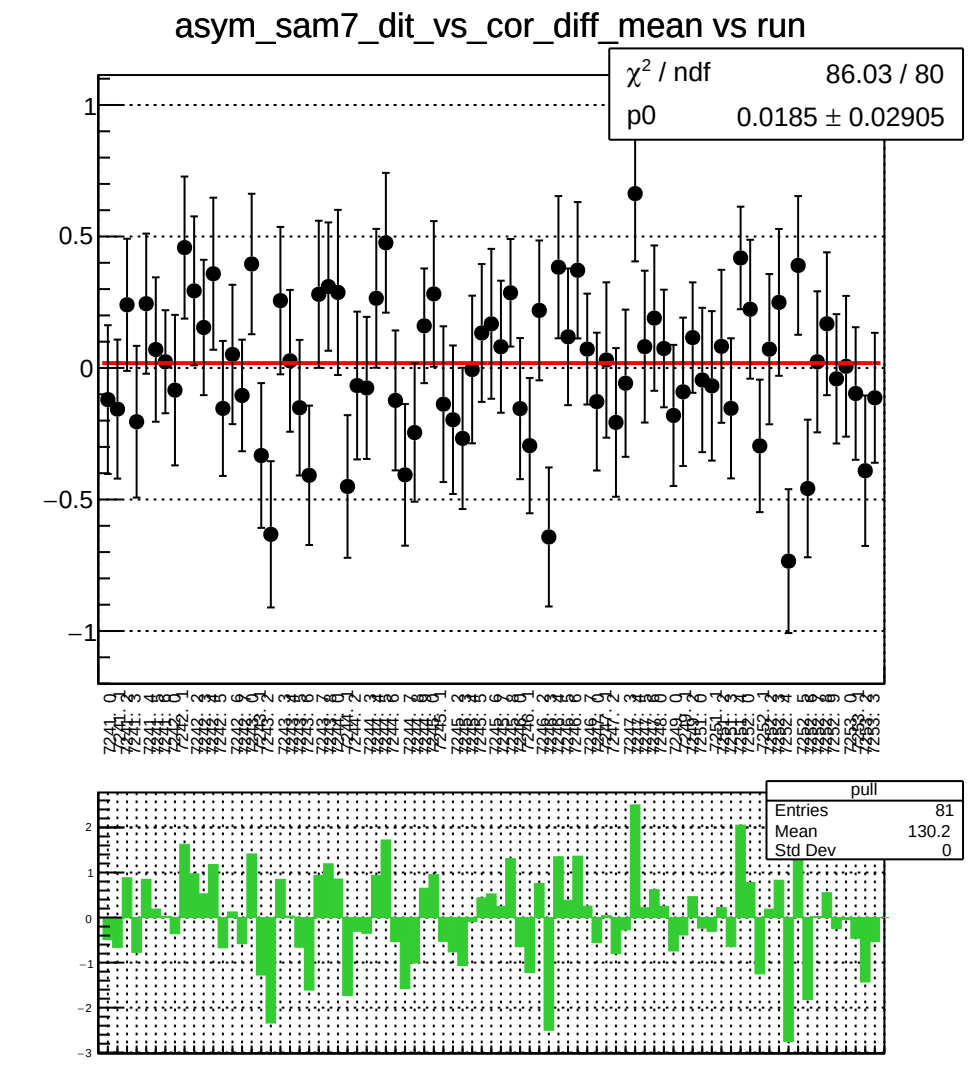

pull1D
Entries 81
Mean −0.00774
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

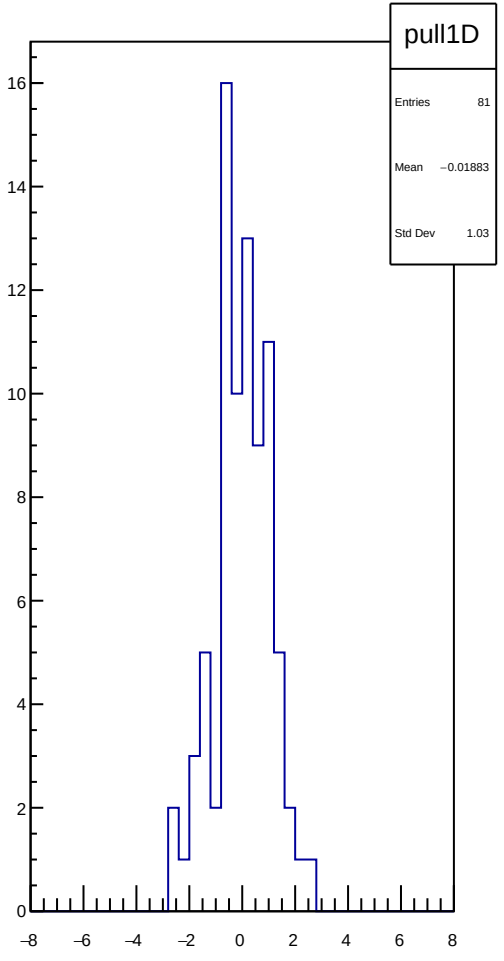

asym_sam7_rms vs run
χ² / ndf 7792 / 80
p0 273 ± 0.2199
320
300
280
260
240

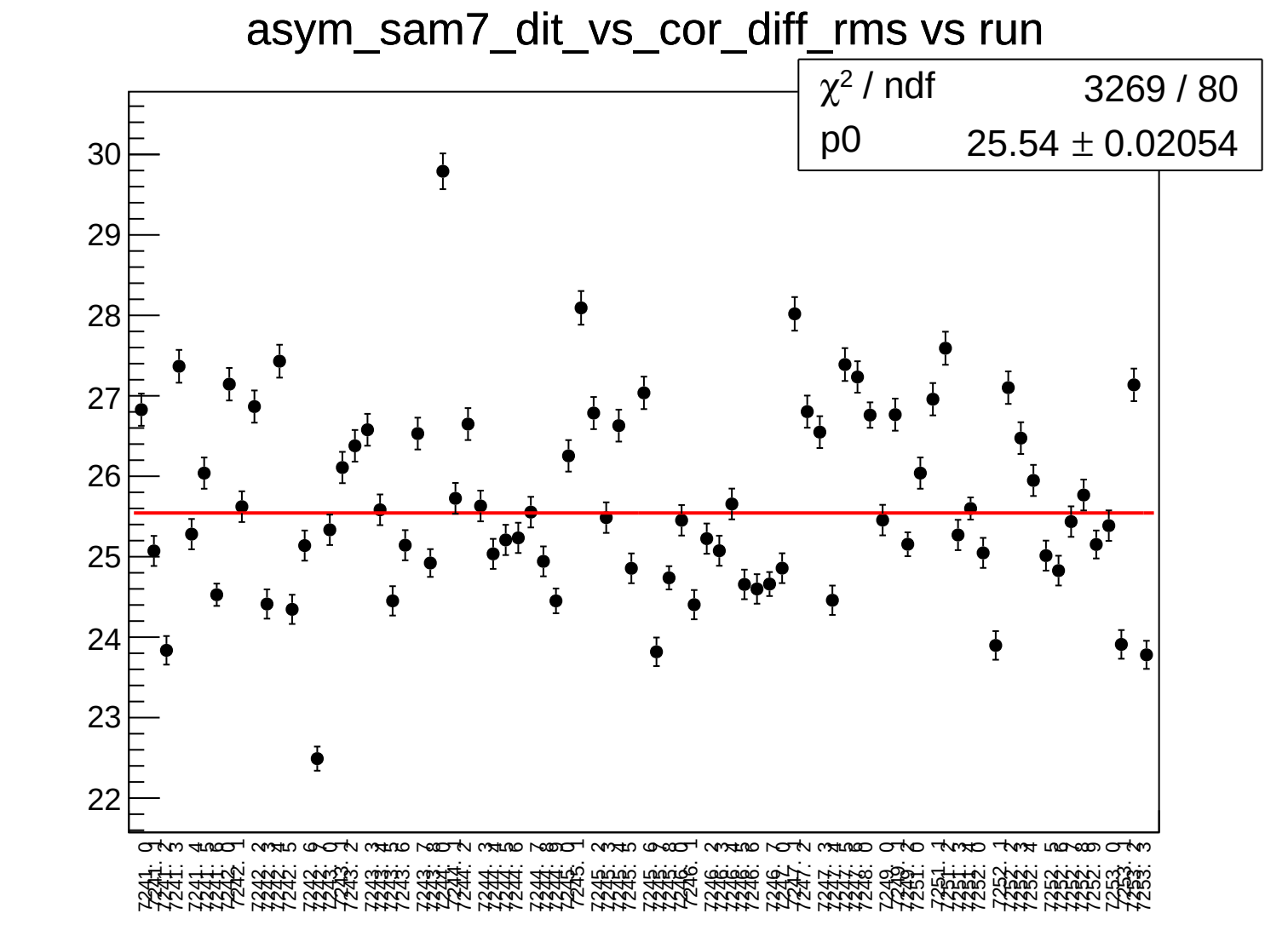

asym_sam7_reg_vs_cor_diff_mean vs run
χ² / ndf 84.58 / 80
p0 4.593e−15 ± 1.395e−14
pull
Entries 81
Mean −223.4
Std Dev 0

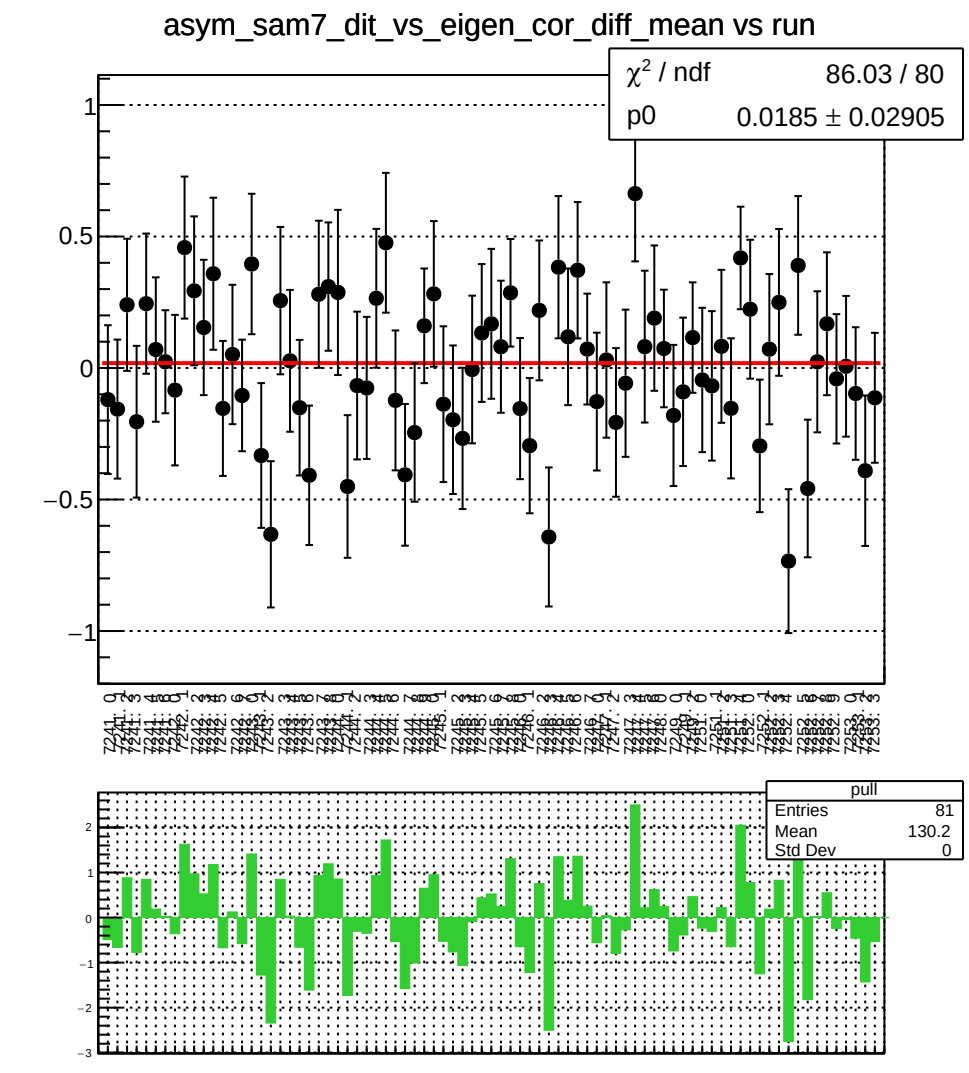

pull1D
Entries 81
Mean 0.01038
Std Dev 1.022

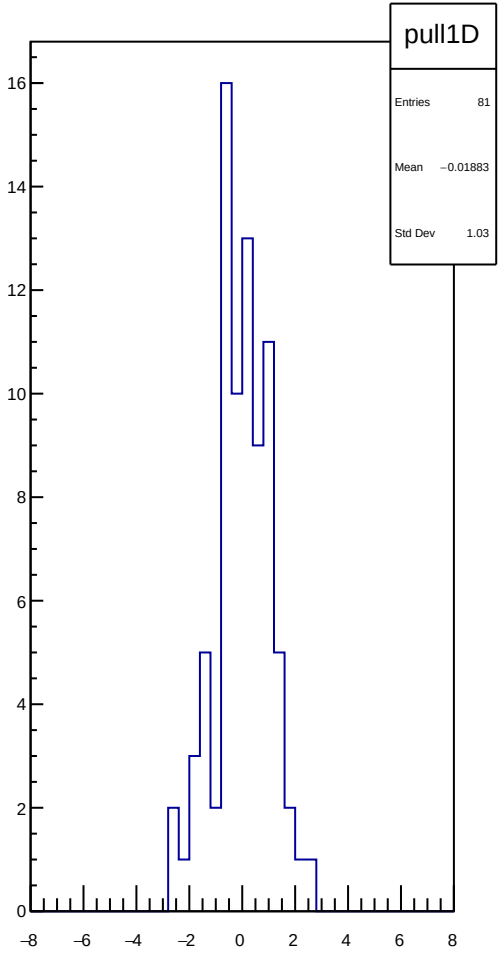

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 1.086e+06 / 80
p0 6.711e−12 ± 9.862e−15
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

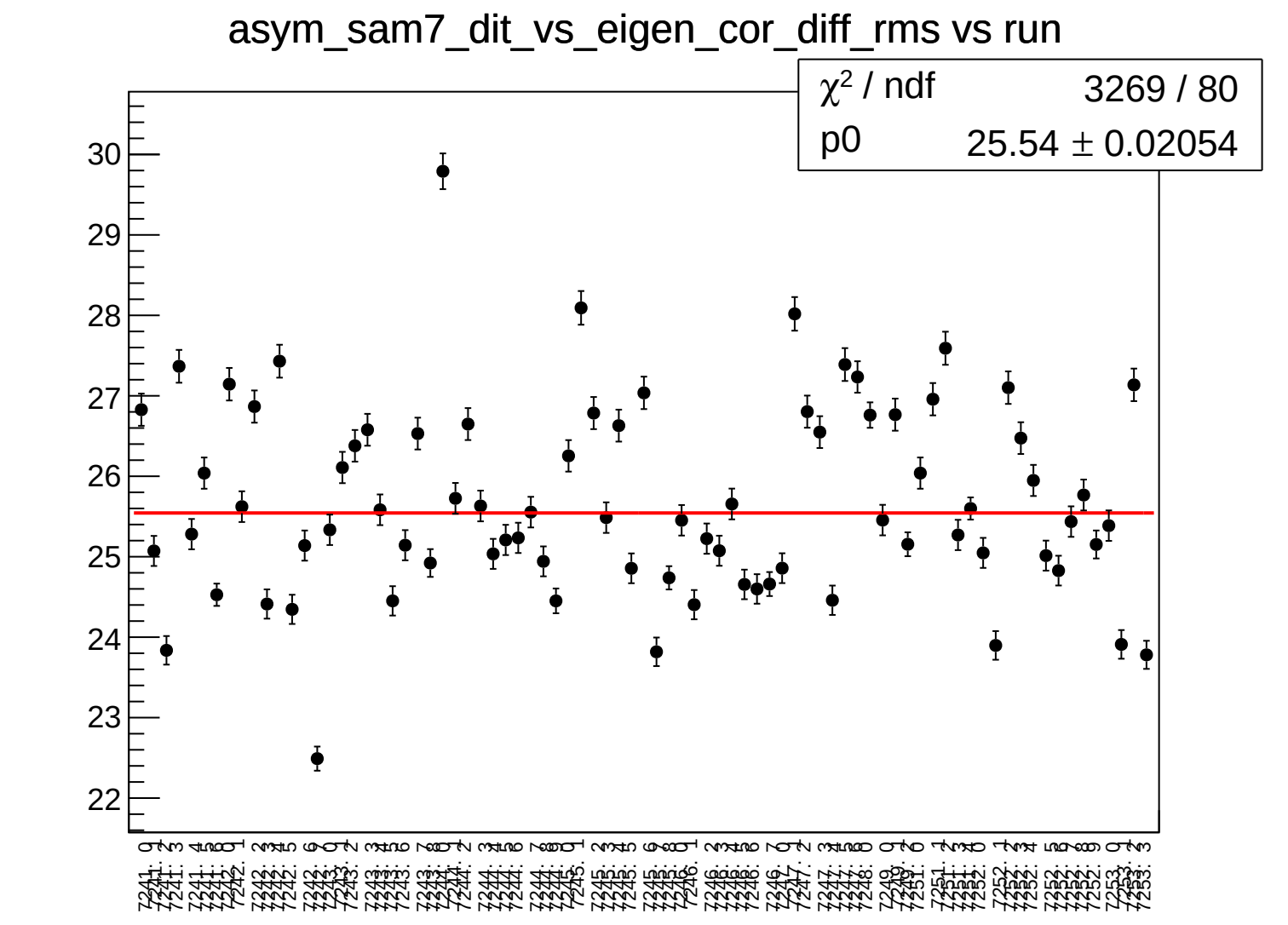

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 86.03 / 80
p0 0.0185 ± 0.02905
pull
Entries 81
Mean 130.2
Std Dev 0

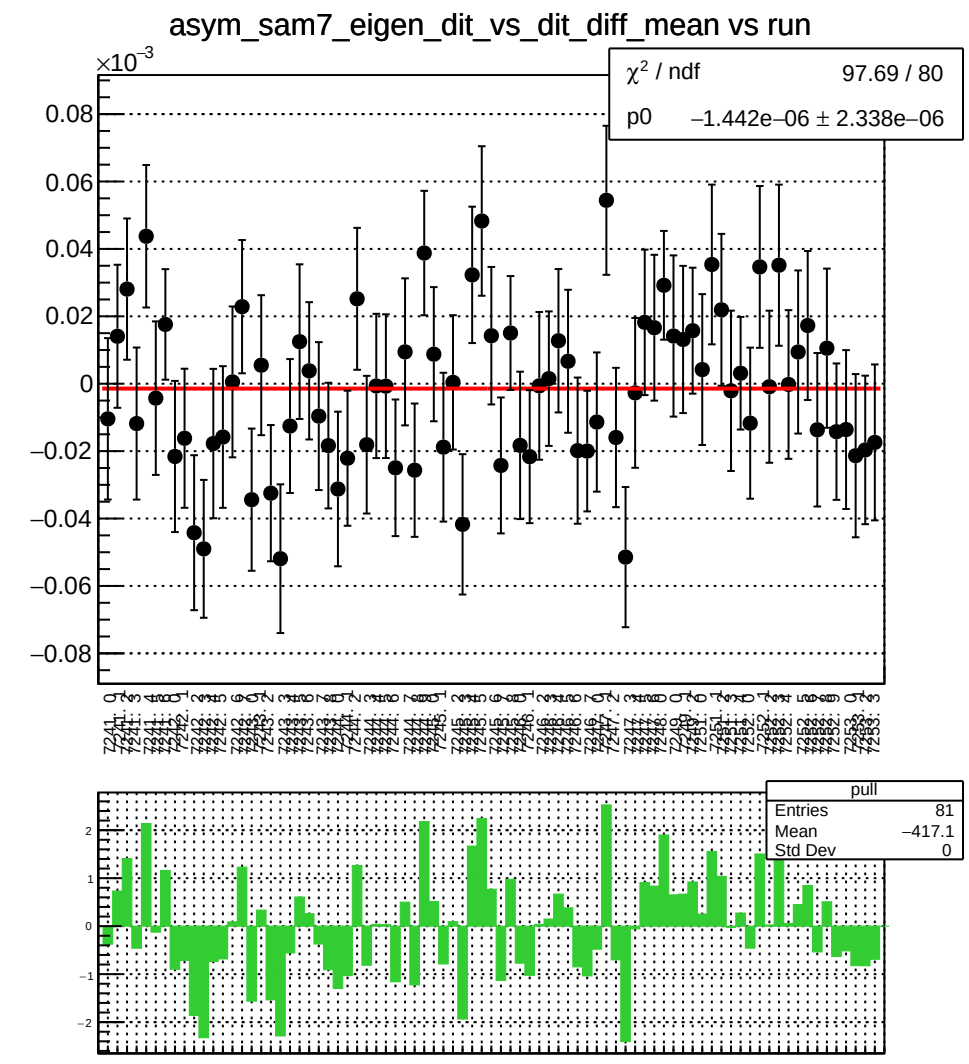

pull1D
Entries 81
Mean −0.01883
Std Dev 1.03

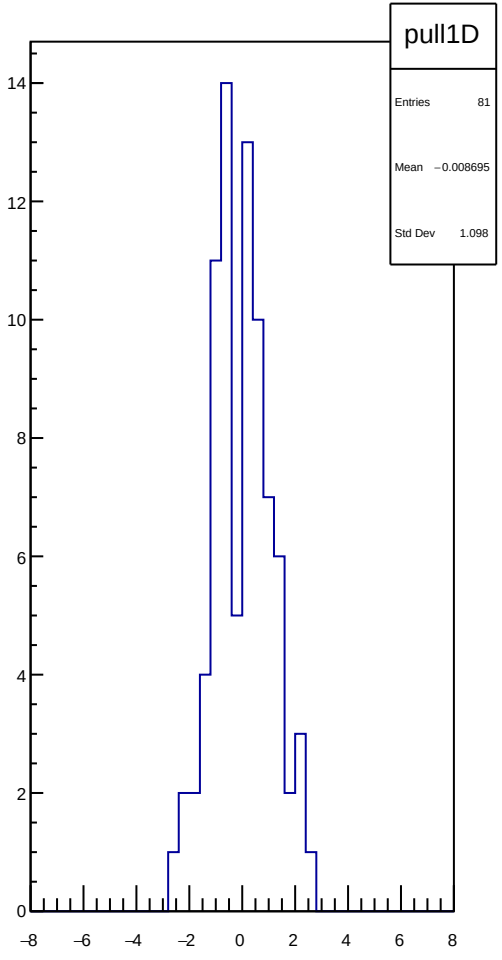

asym_sam7_dit_vs_cor_diff_rms vs run
χ² / ndf 3269 / 80
p0 25.54 ± 0.02054
30
29
28
27
26
25
24
23
22

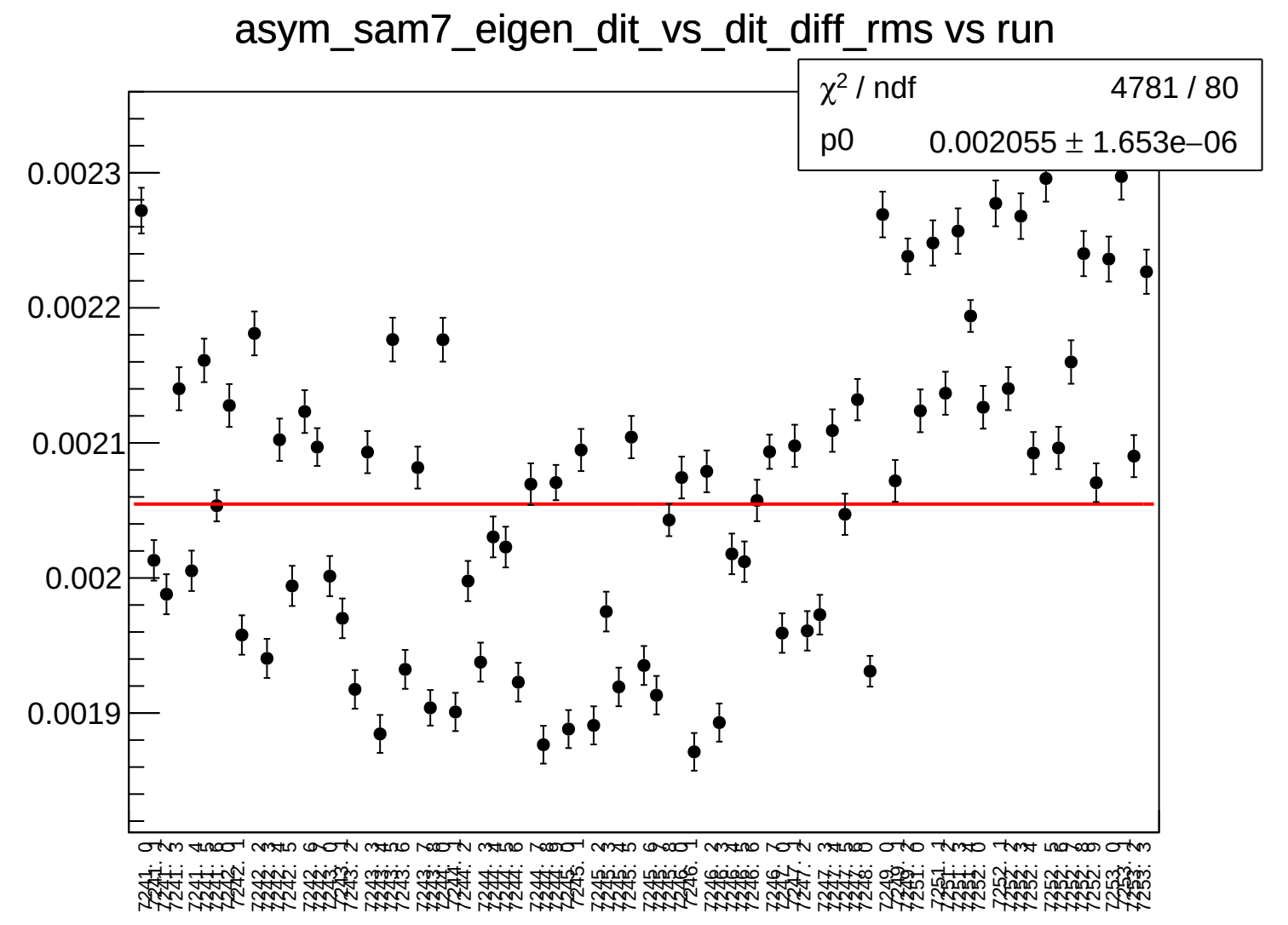

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.03 / 80
p0 0.0185 ± 0.02905
pull
Entries 81
Mean 130.2
Std Dev 0

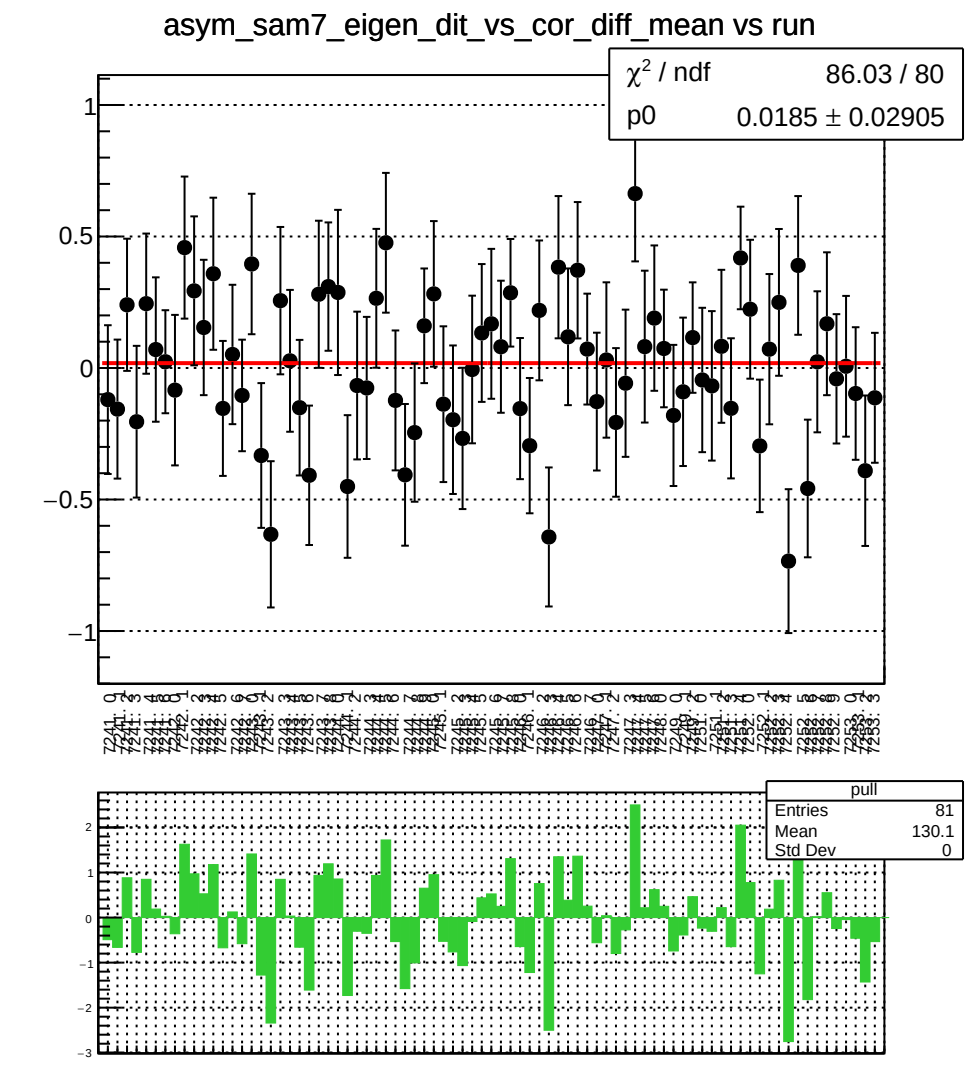

pull1D
Entries 81
Mean −0.01883
Std Dev 1.03

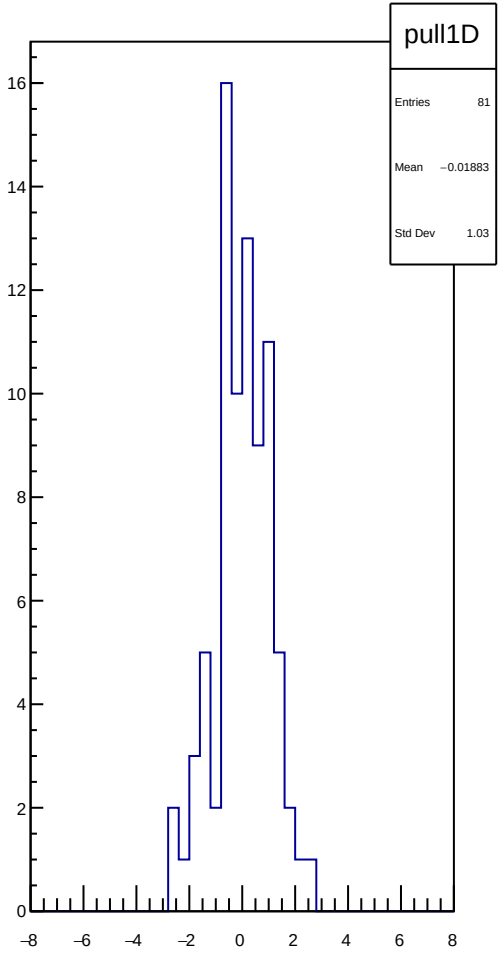

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3269 / 80
p0 25.54 ± 0.02054
30
29
28
27
26
25
24
23
22

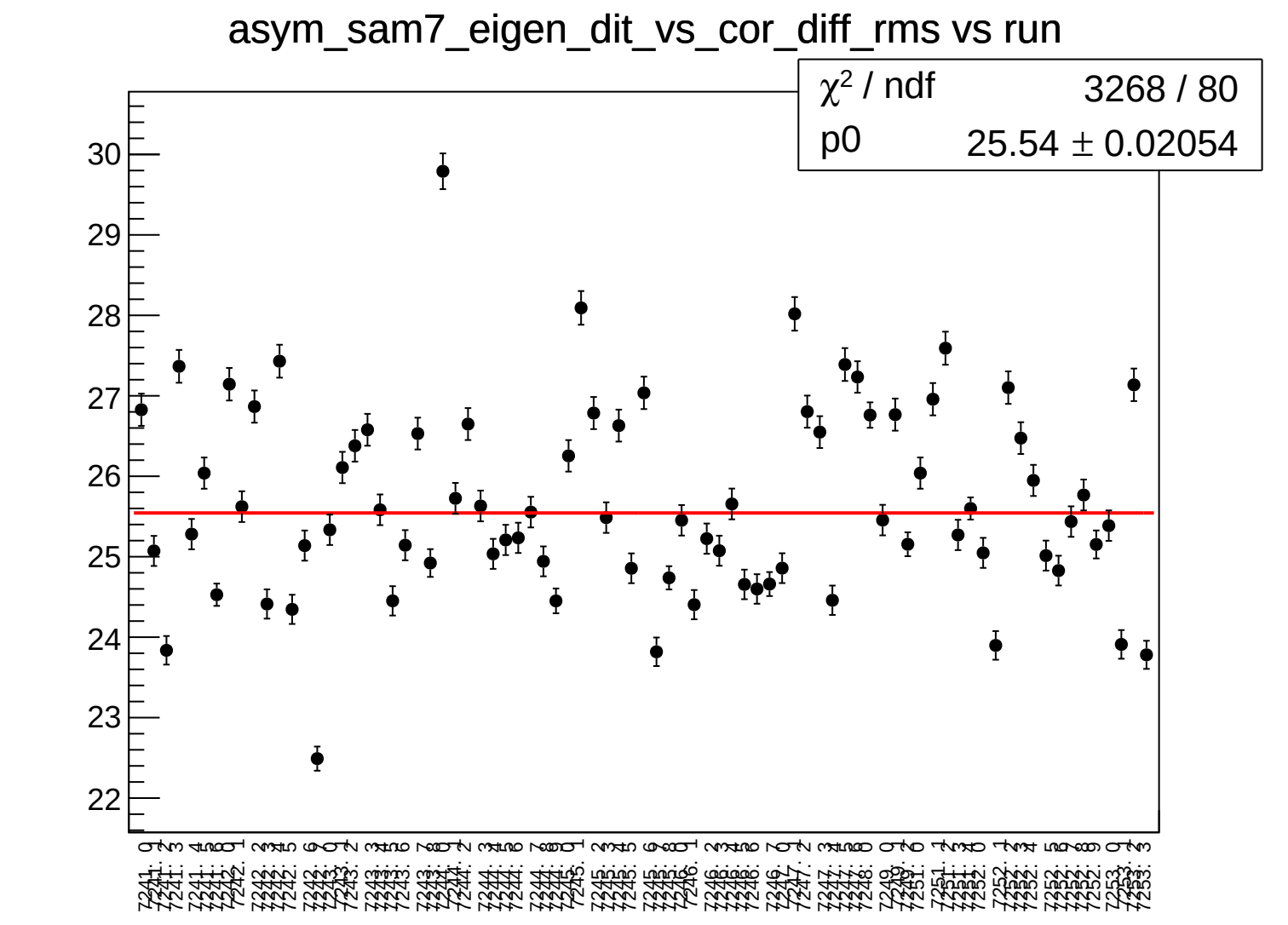

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.69 / 80
p0 −1.442e−06 ± 2.338e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 81
Mean −417.1
Std Dev 0
2
1
0
−1
−2

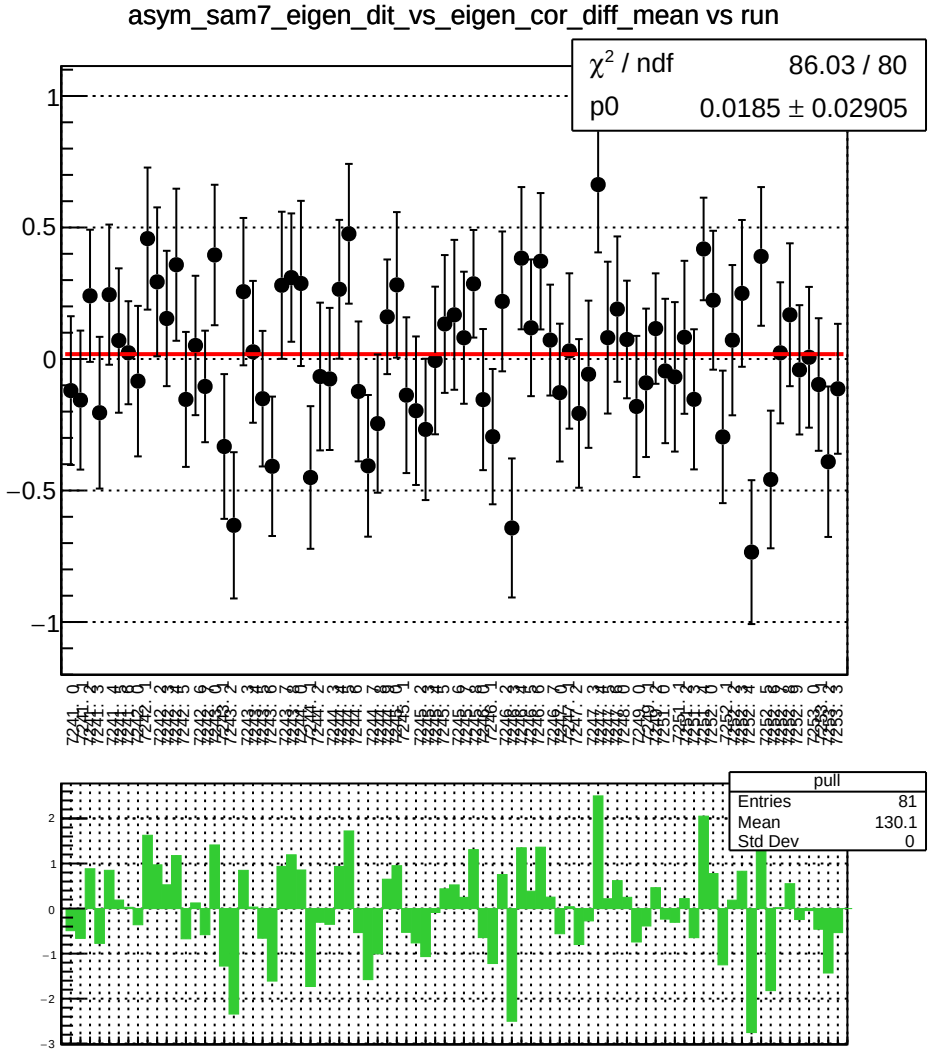

pull1D
Entries 81
Mean −0.008695
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

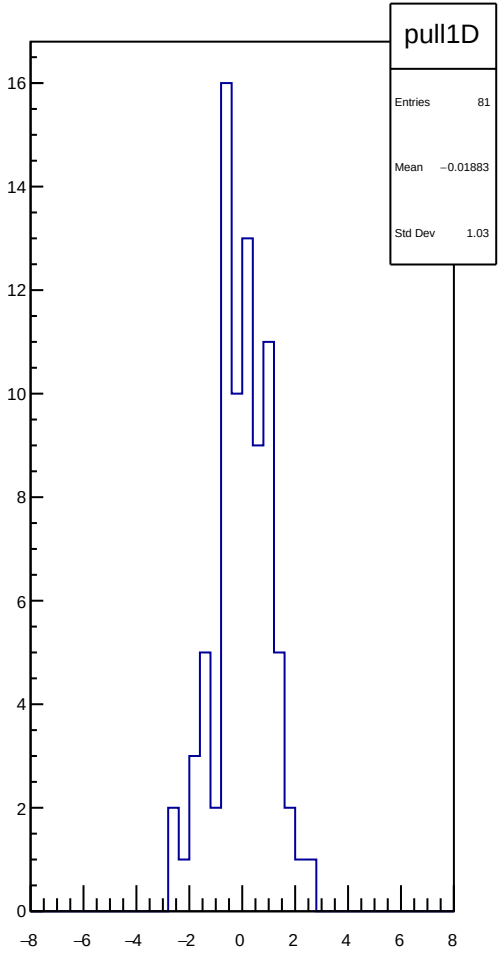

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4781 / 80
p0 0.002055 ± 1.653e−06
0.0023
0.0022
0.0021
0.002
0.0019

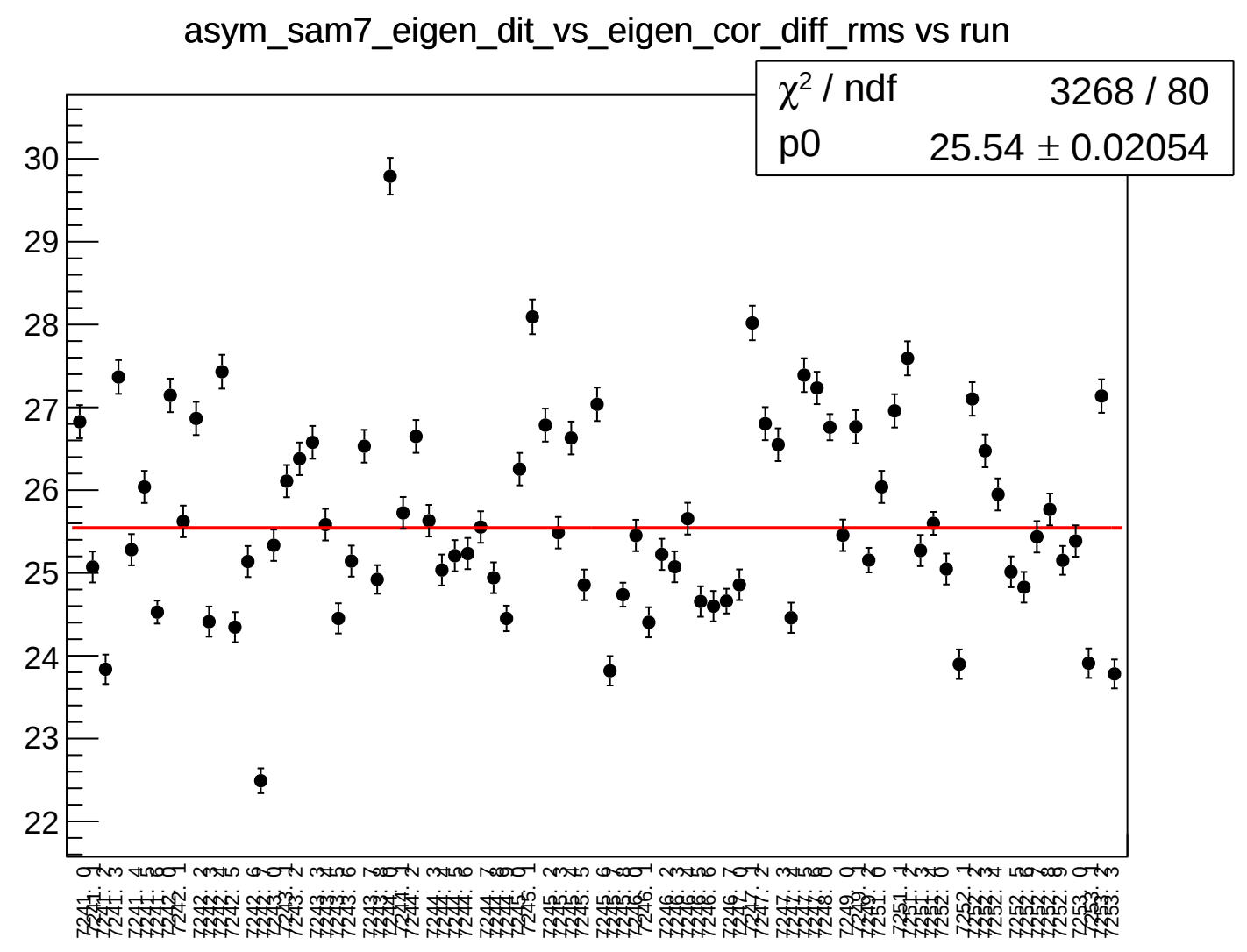

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.03 / 80
p0 0.0185 ± 0.02905
pull
Entries 81
Mean 130.1
Std Dev 0

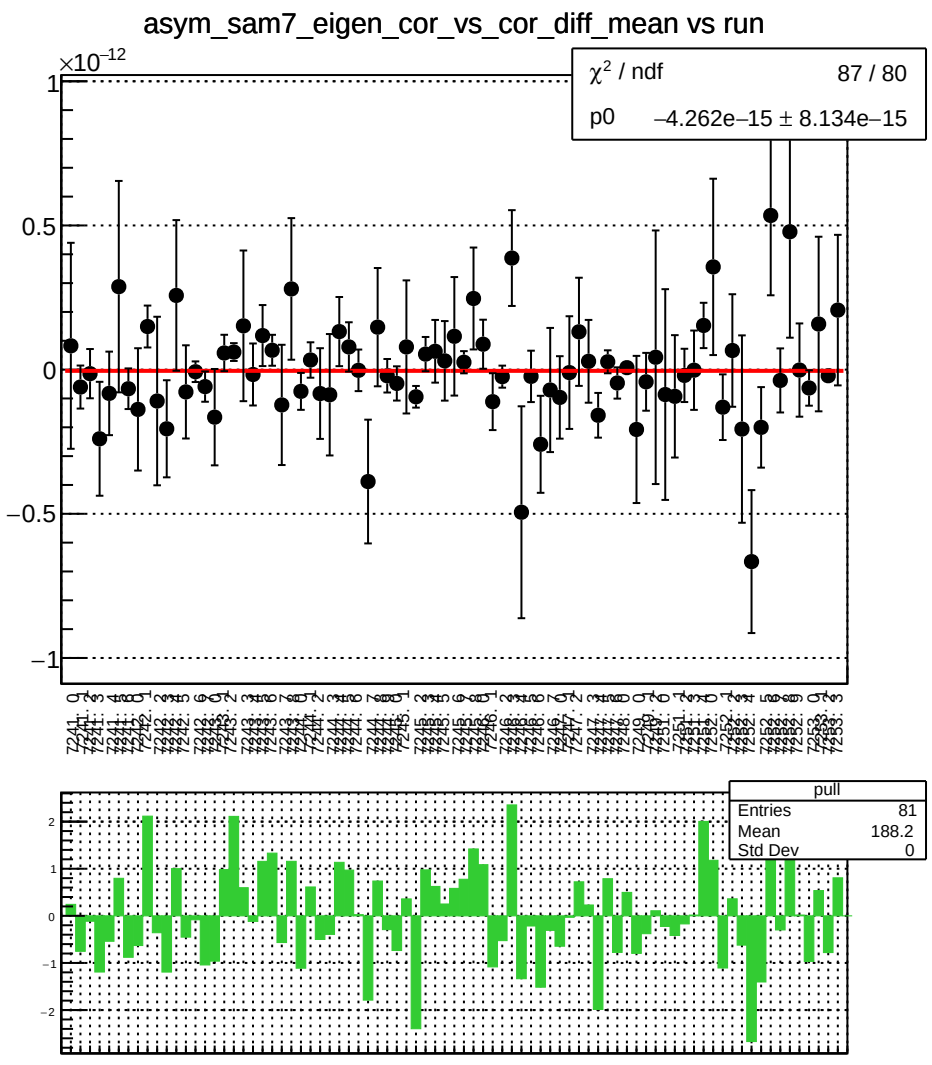

pull1D
Entries 81
Mean −0.01883
Std Dev 1.03

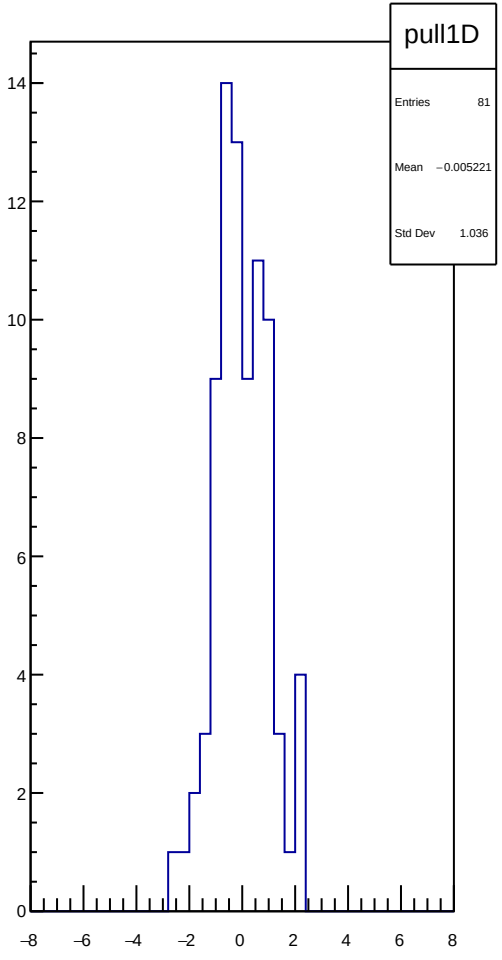

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3268 / 80
p0 25.54 ± 0.02054
30
29
28
27
26
25
24
23
22

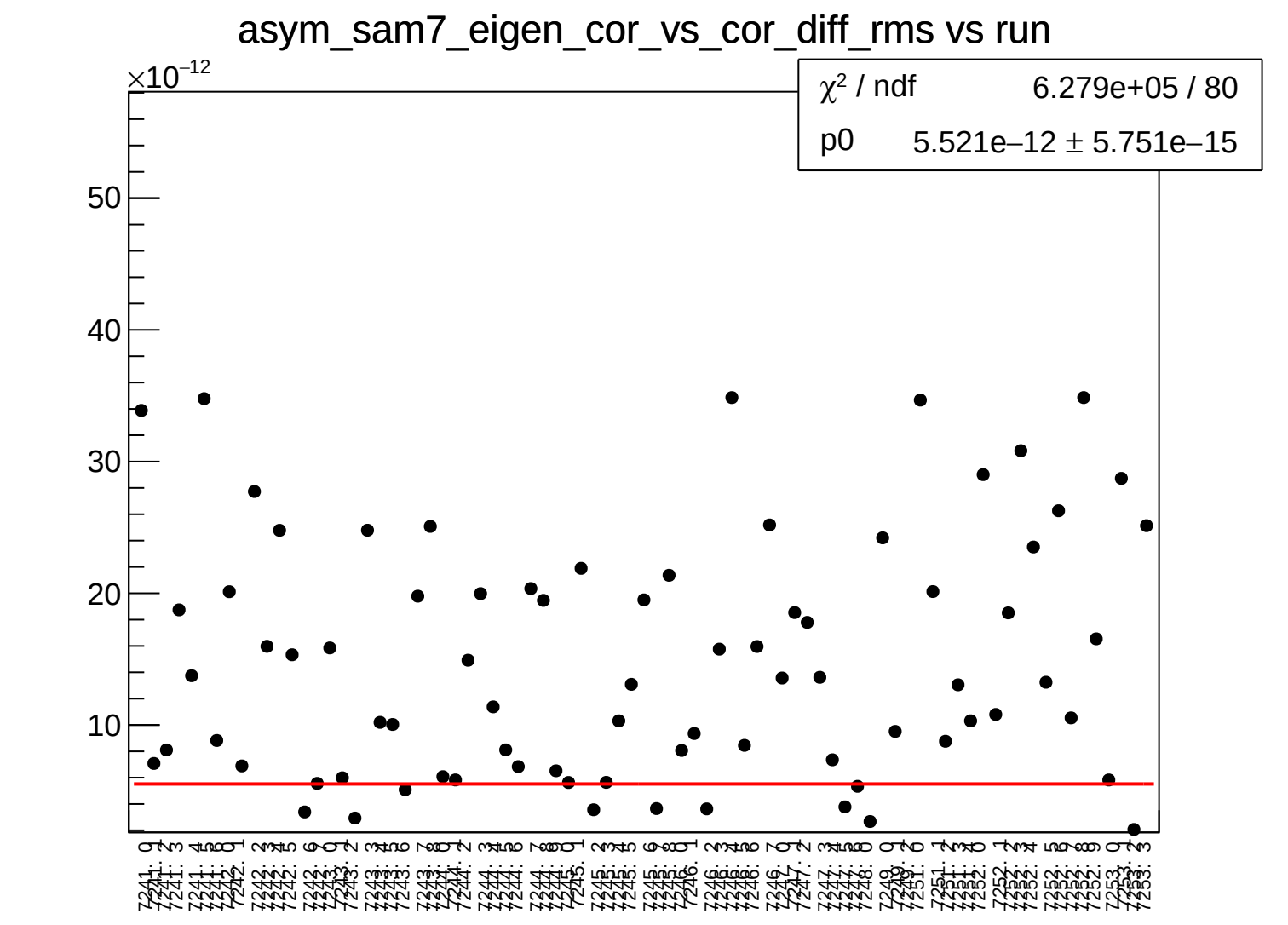

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.03 / 80
p0 0.0185 ± 0.02905
pull
Entries 81
Mean 130.1
Std Dev 0

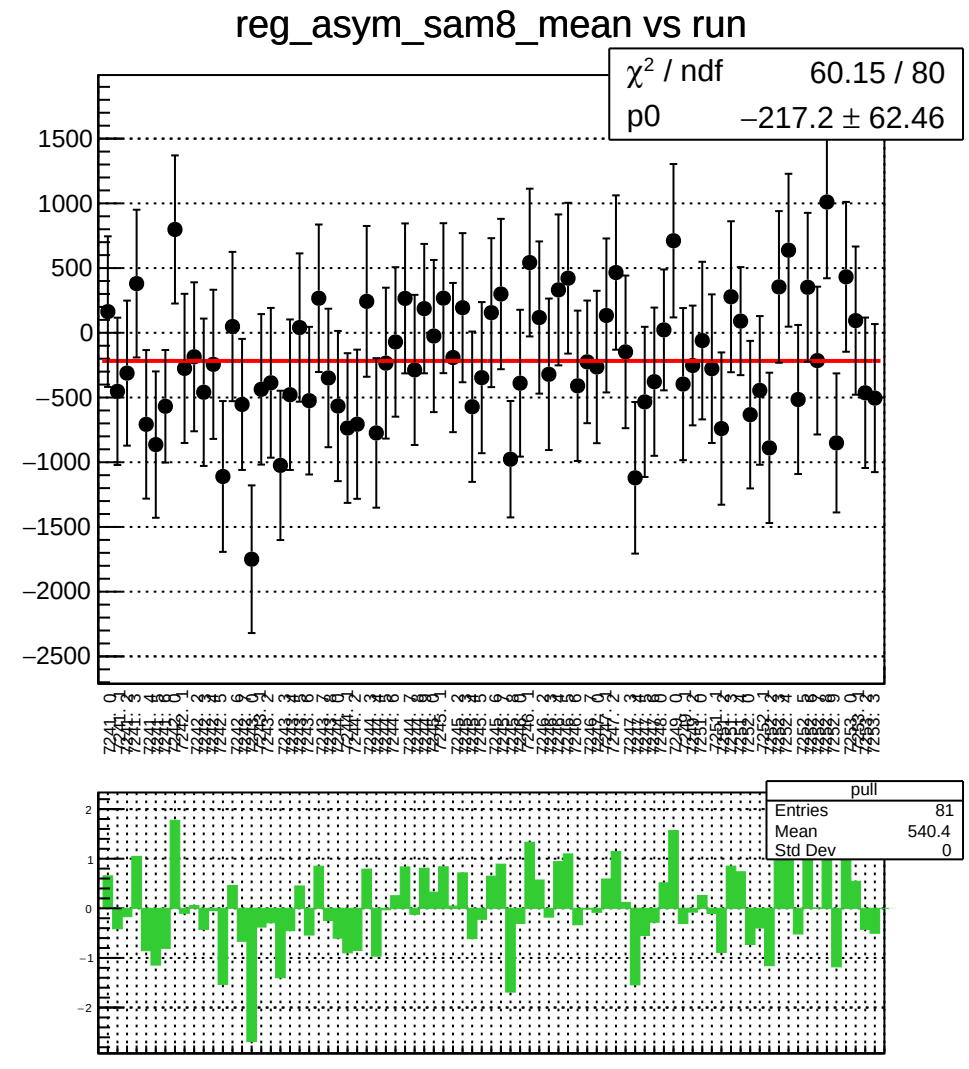

pull1D
Entries 81
Mean −0.01883
Std Dev 1.03

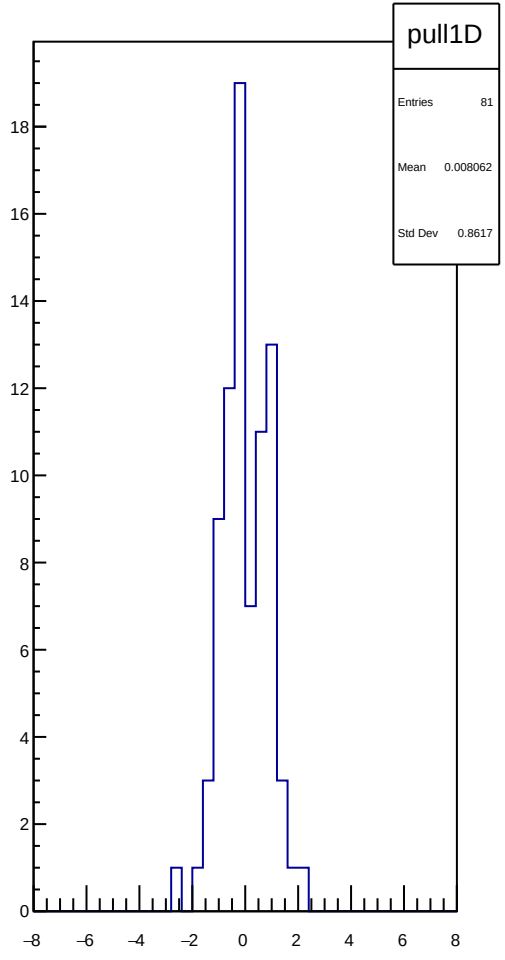

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3268 / 80
p0 25.54 ± 0.02054
30
29
28
27
26
25
24
23
22

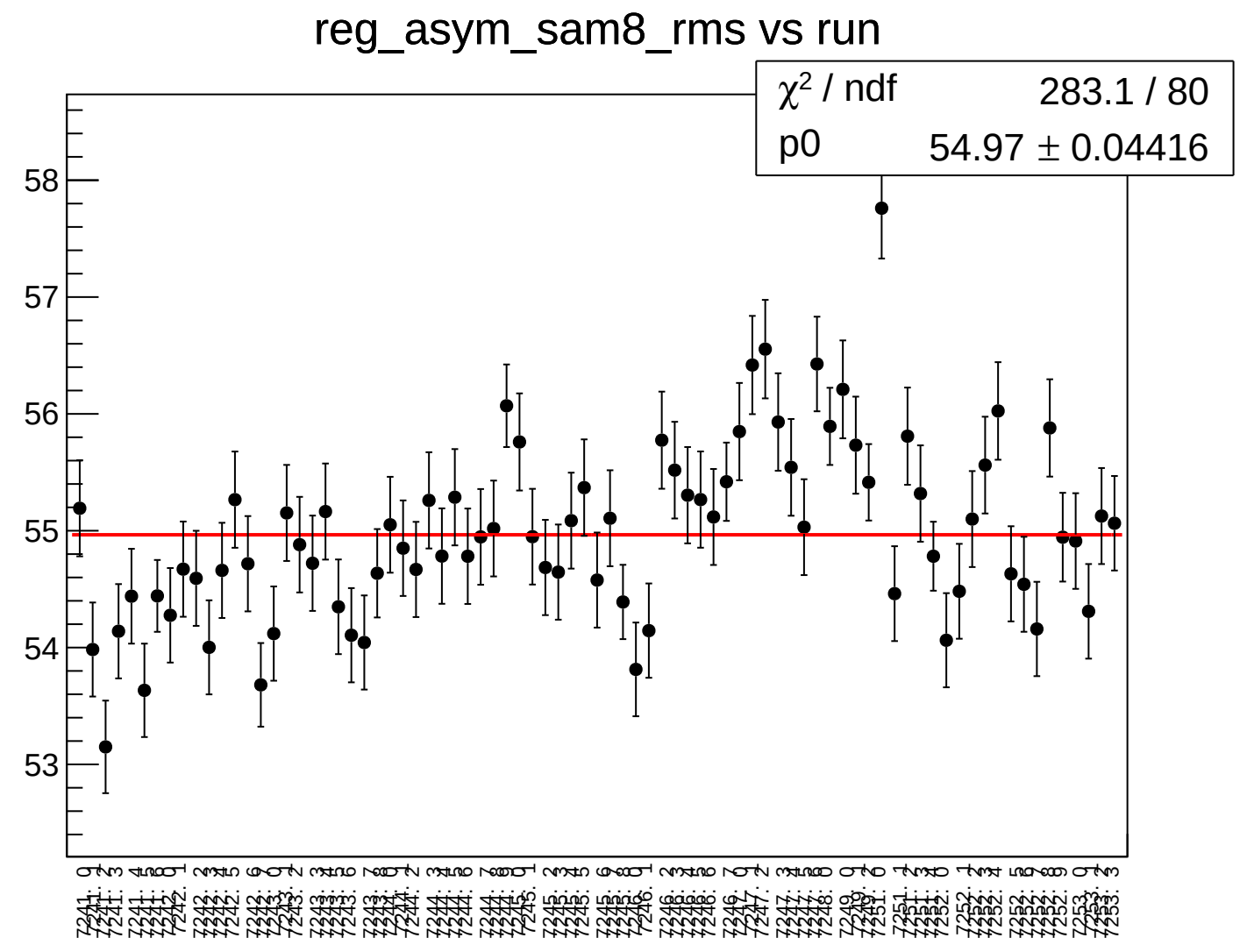

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87 / 80
p0 −4.262e−15 ± 8.134e−15
pull
Entries 81
Mean 188.2
Std Dev 0

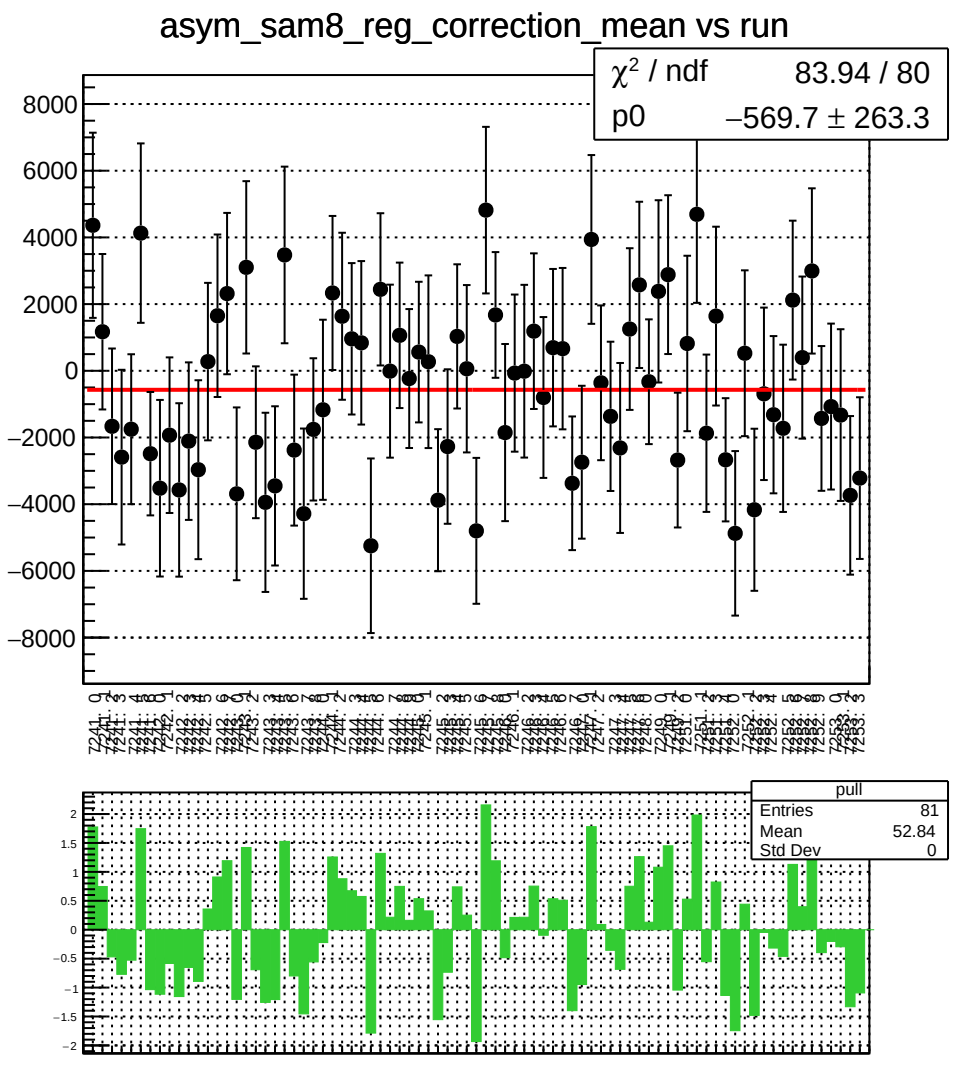

pull1D
Entries 81
Mean −0.005221
Std Dev 1.036

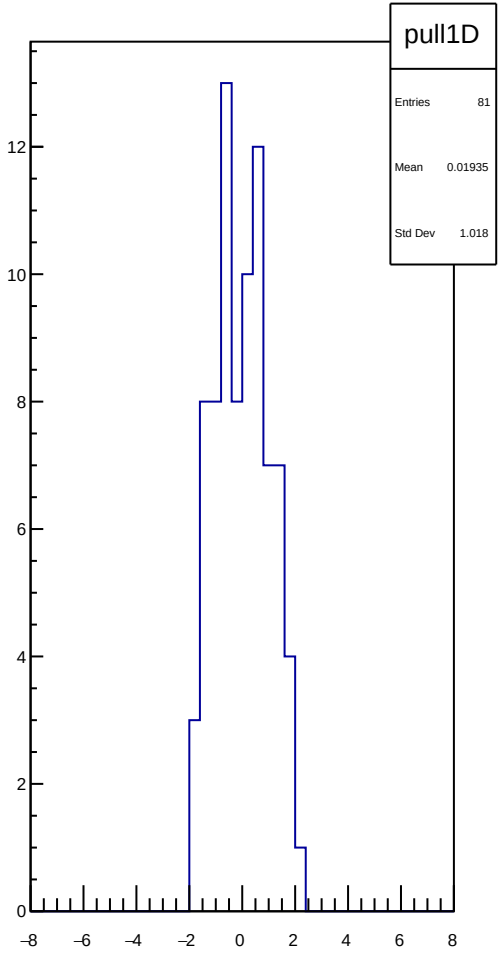

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.279e+05 / 80
p0 5.521e−12 ± 5.751e−15
50
40
30
20
10

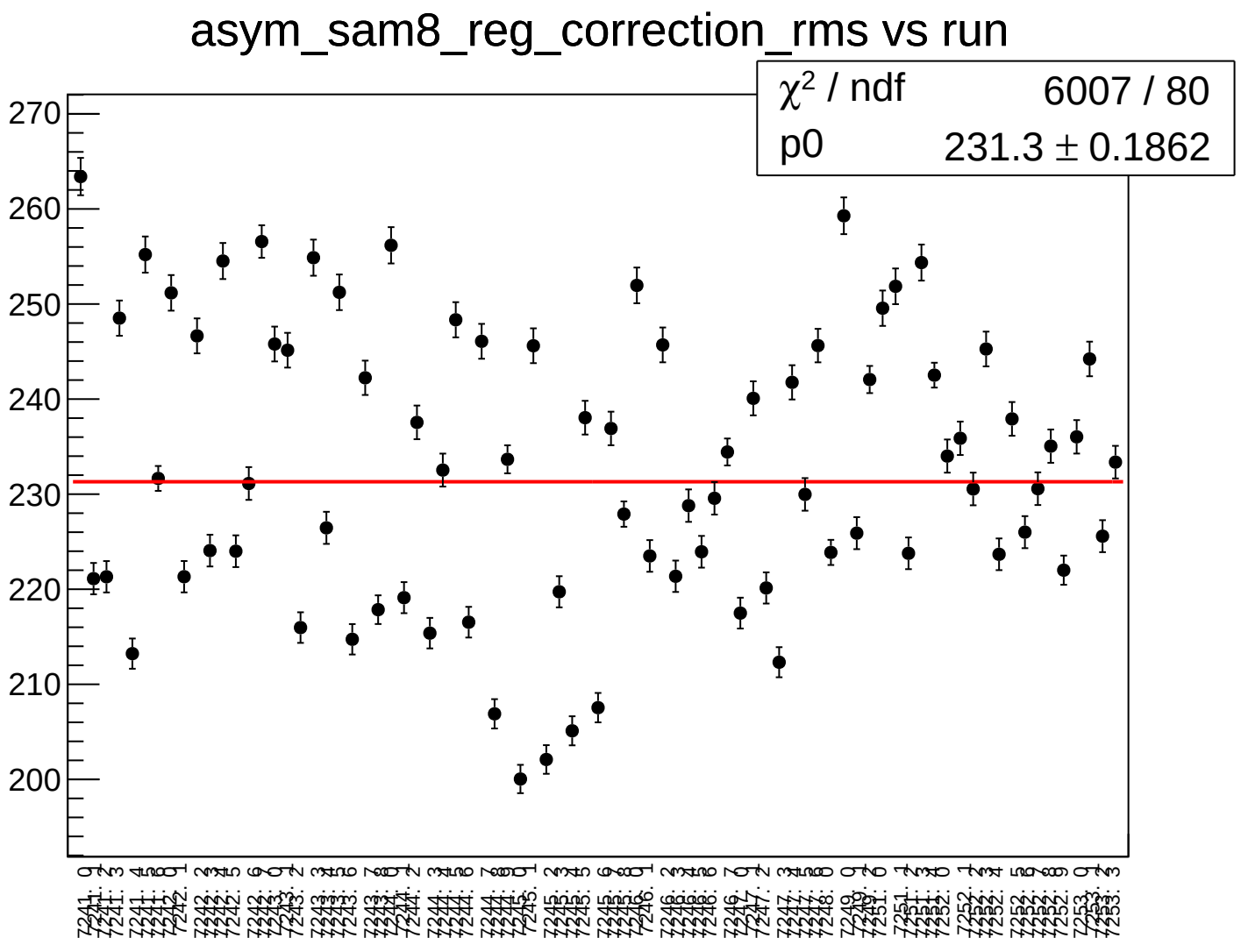

reg_asym_sam8_mean vs run
χ² / ndf 60.15 / 80
p0 −217.2 ± 62.46
pull
Entries 81
Mean 540.4
Std Dev 0

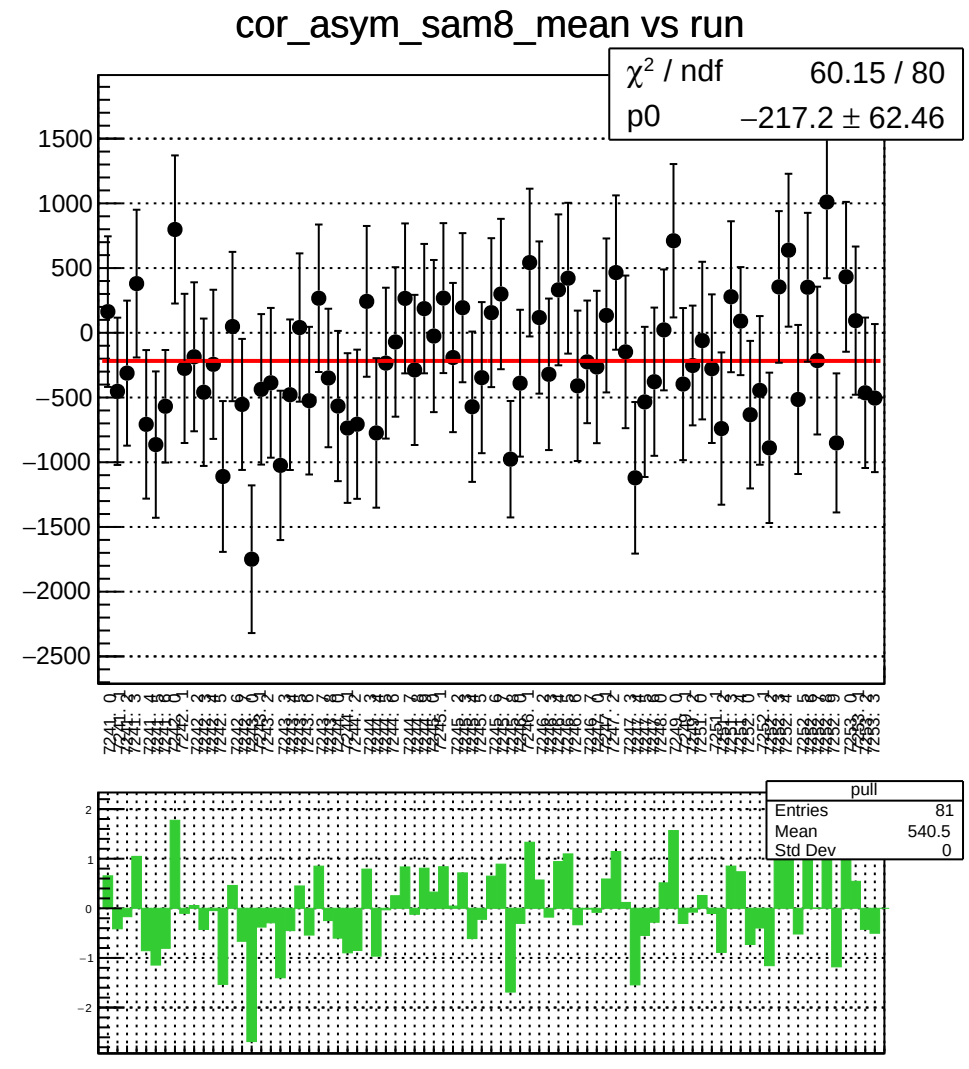

pull1D
Entries 81
Mean 0.008062
Std Dev 0.8617

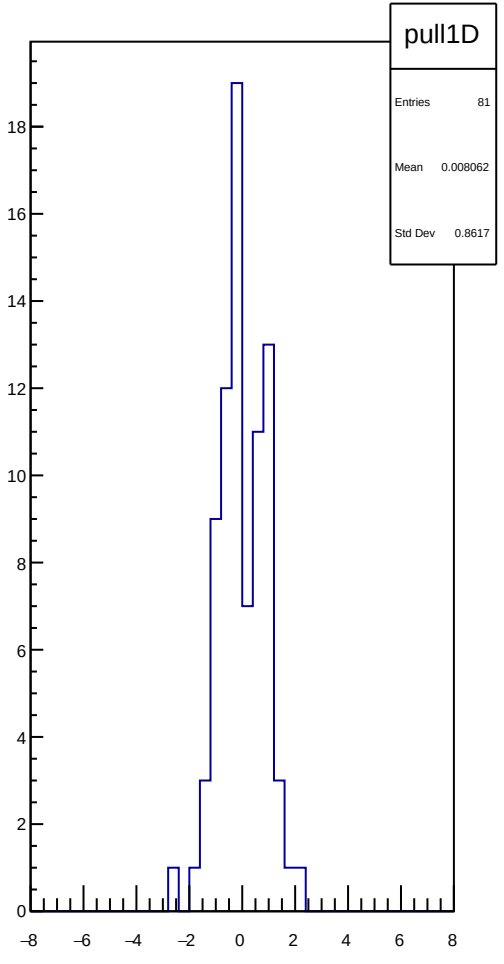

reg_asym_sam8_rms vs run
χ^2 / ndf 283.1 / 80
p0 54.97 ± 0.04416
58
57
56
55
54
53

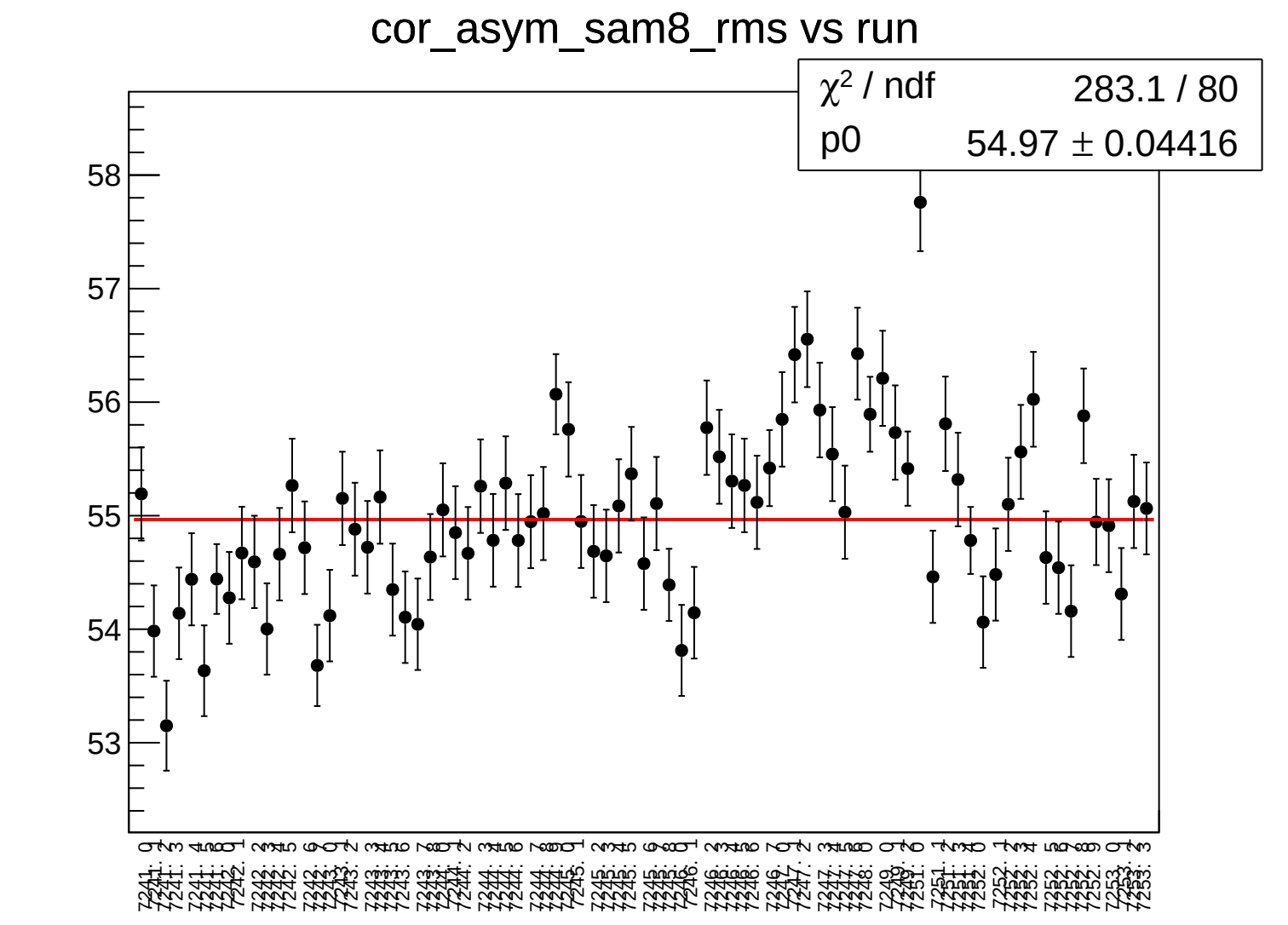

asym_sam8_reg_correction_mean vs run
χ² / ndf 83.94 / 80
p0 −569.7 ± 263.3
pull
Entries 81
Mean 52.84
Std Dev 0

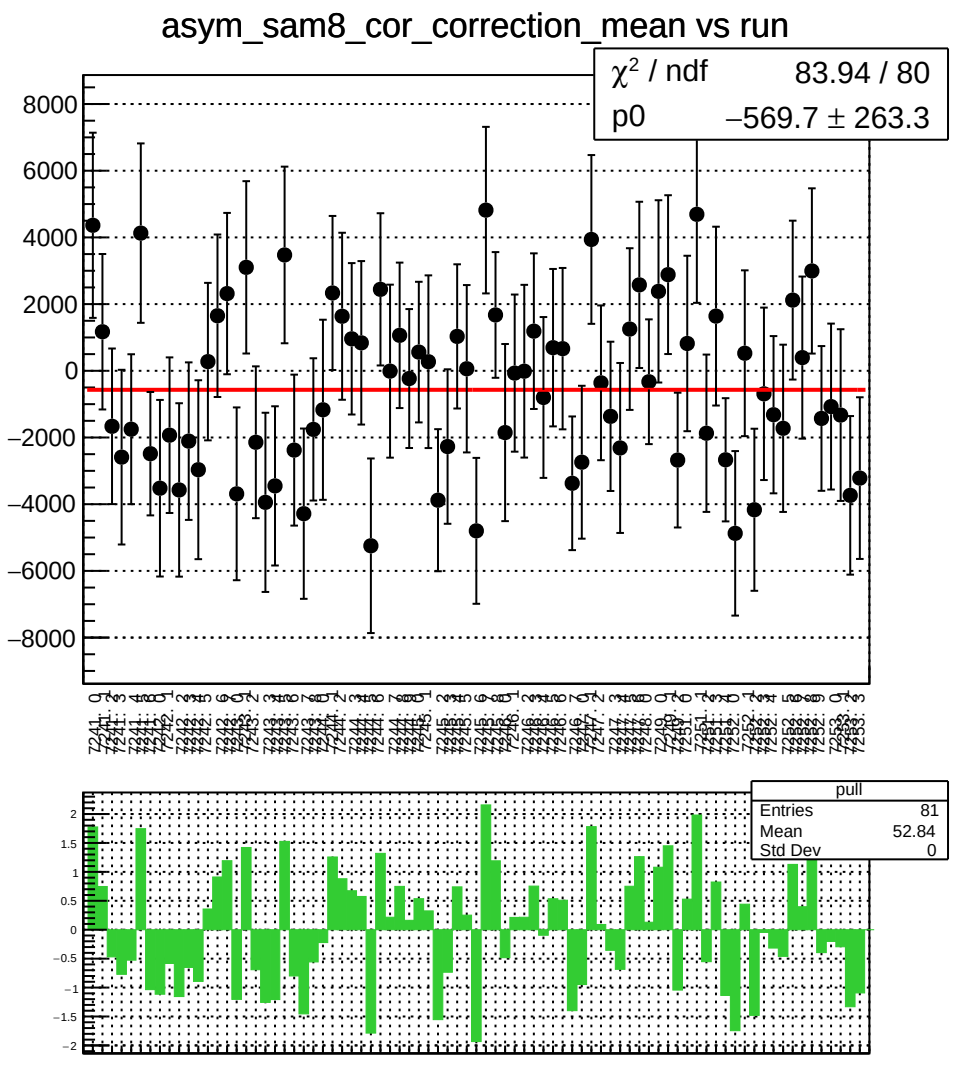

pull1D
Entries 81
Mean 0.01935
Std Dev 1.018

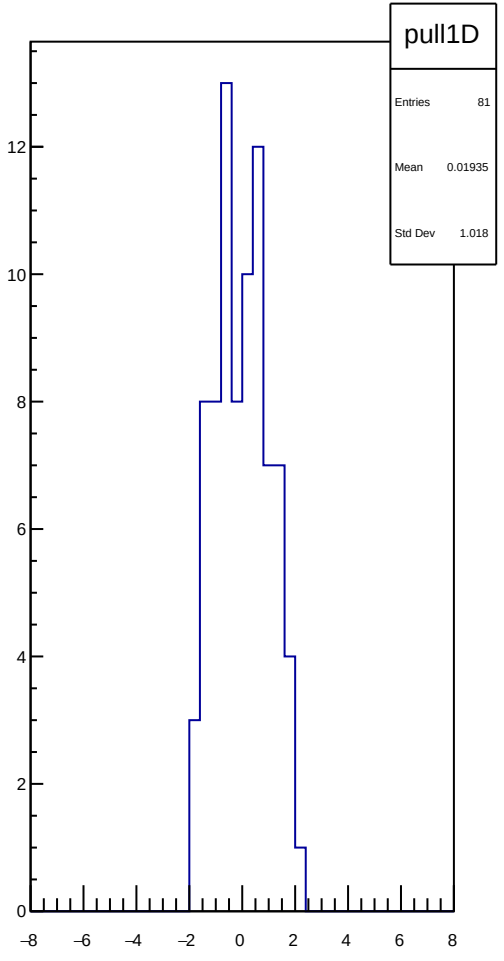

asym_sam8_reg_correction_rms vs run
χ² / ndf 6007 / 80
p0 231.3 ± 0.1862
270
260
250
240
230
220
210
200


cor_asym_sam8_mean vs run
χ² / ndf 60.15 / 80
p0 −217.2 ± 62.46
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
pull
Entries 81
Mean 540.5
Std Dev 0
2
1
0
−1
−2

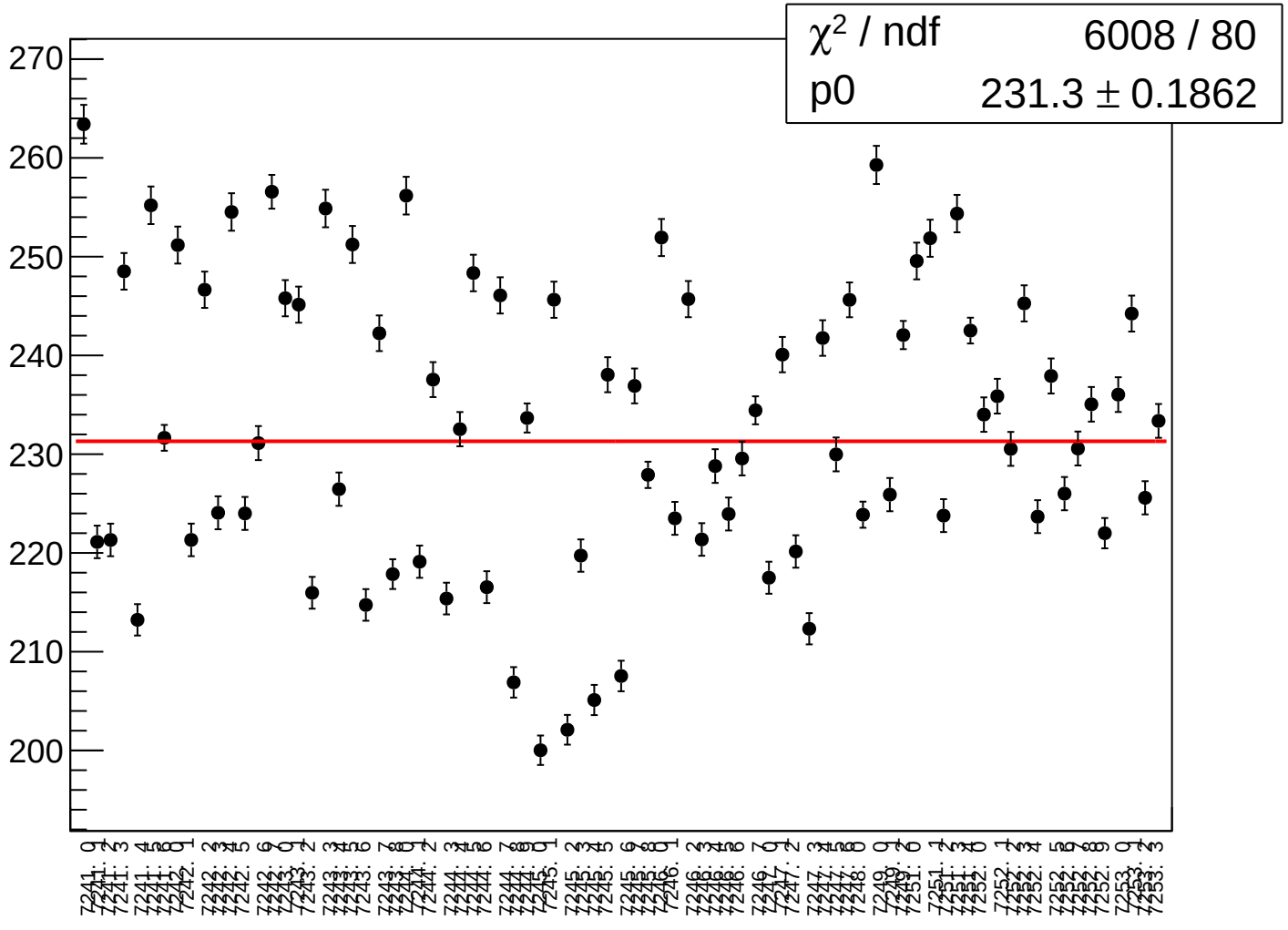

pull1D
Entries 81
Mean 0.008062
Std Dev 0.8617
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

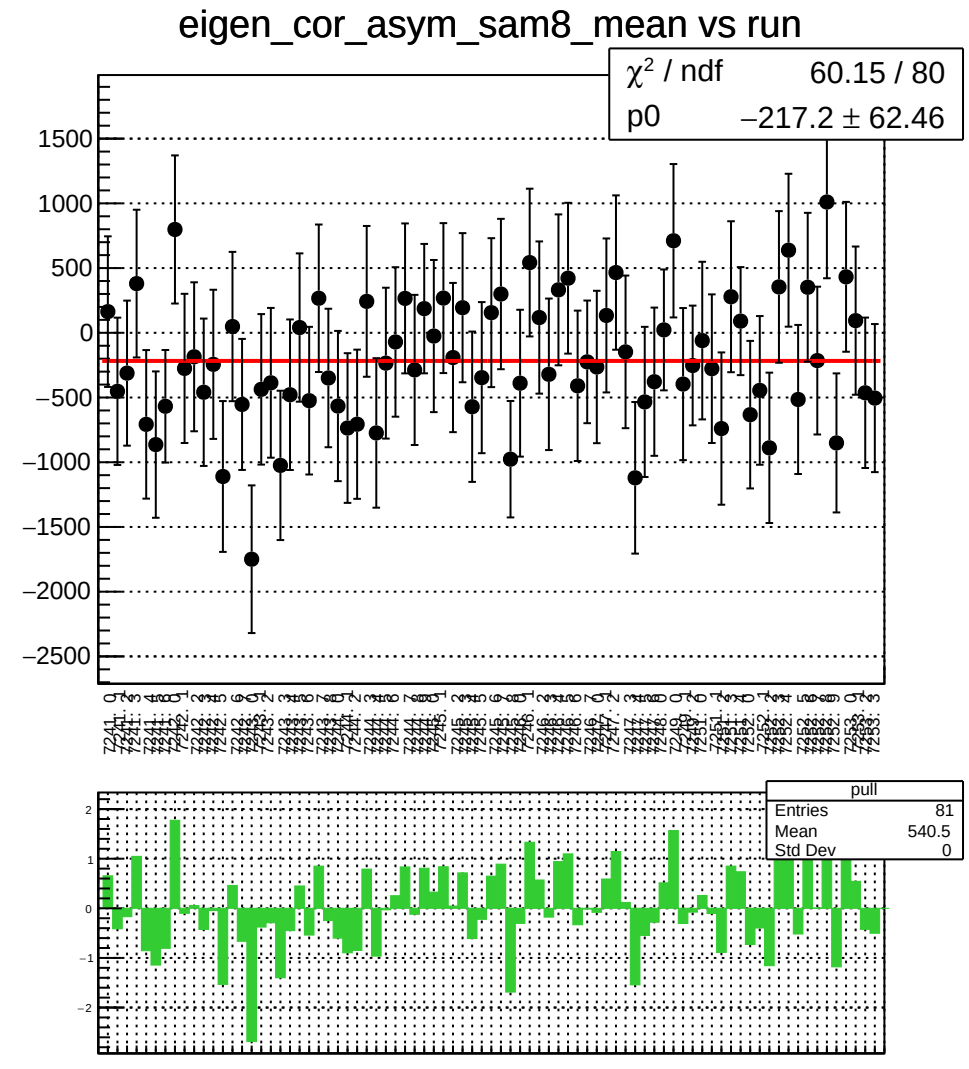

cor_asym_sam8_rms vs run
χ^2 / ndf 283.1 / 80
p0 54.97 ± 0.04416
58
57
56
55
54
53

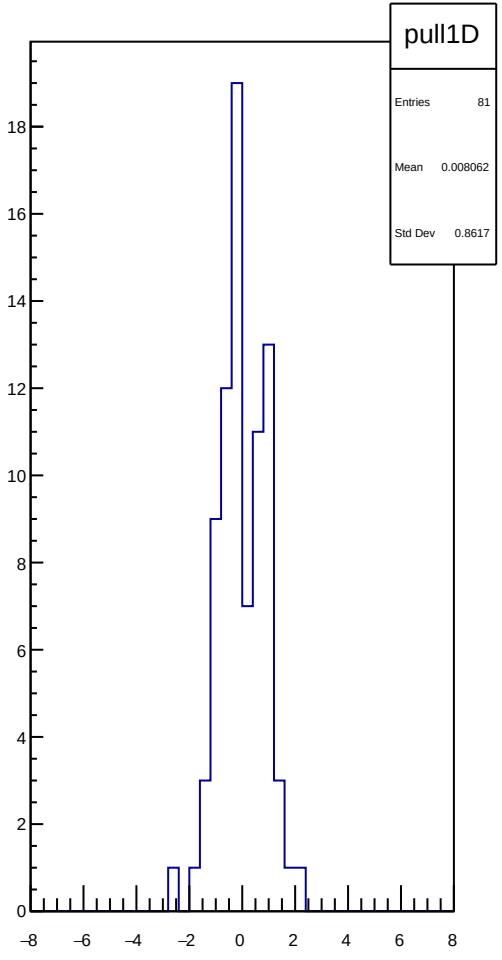

asym_sam8_cor_correction_mean vs run
χ² / ndf 83.94 / 80
p0 −569.7 ± 263.3
pull
Entries 81
Mean 52.84
Std Dev 0

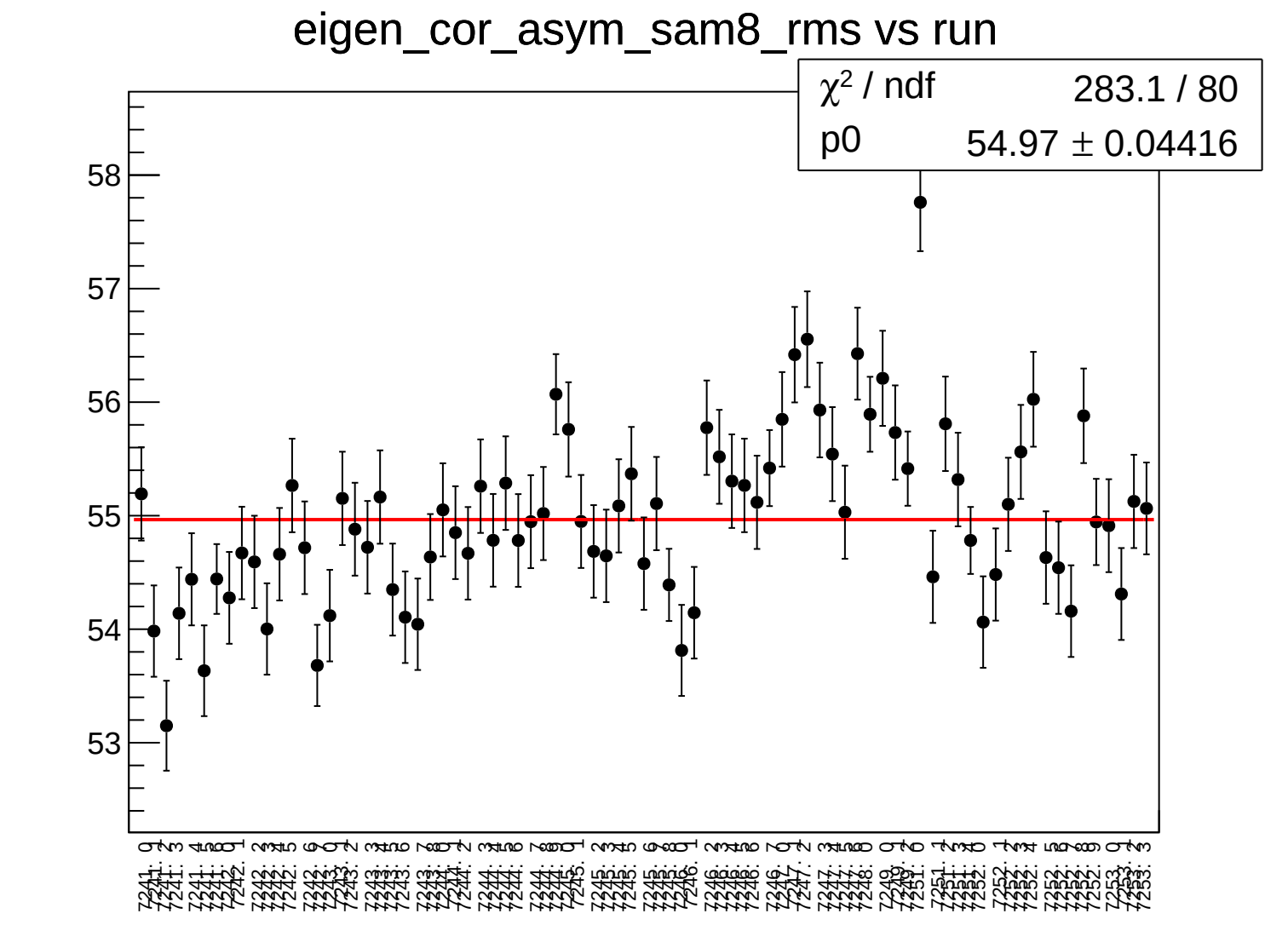

pull1D
Entries 81
Mean 0.01935
Std Dev 1.018

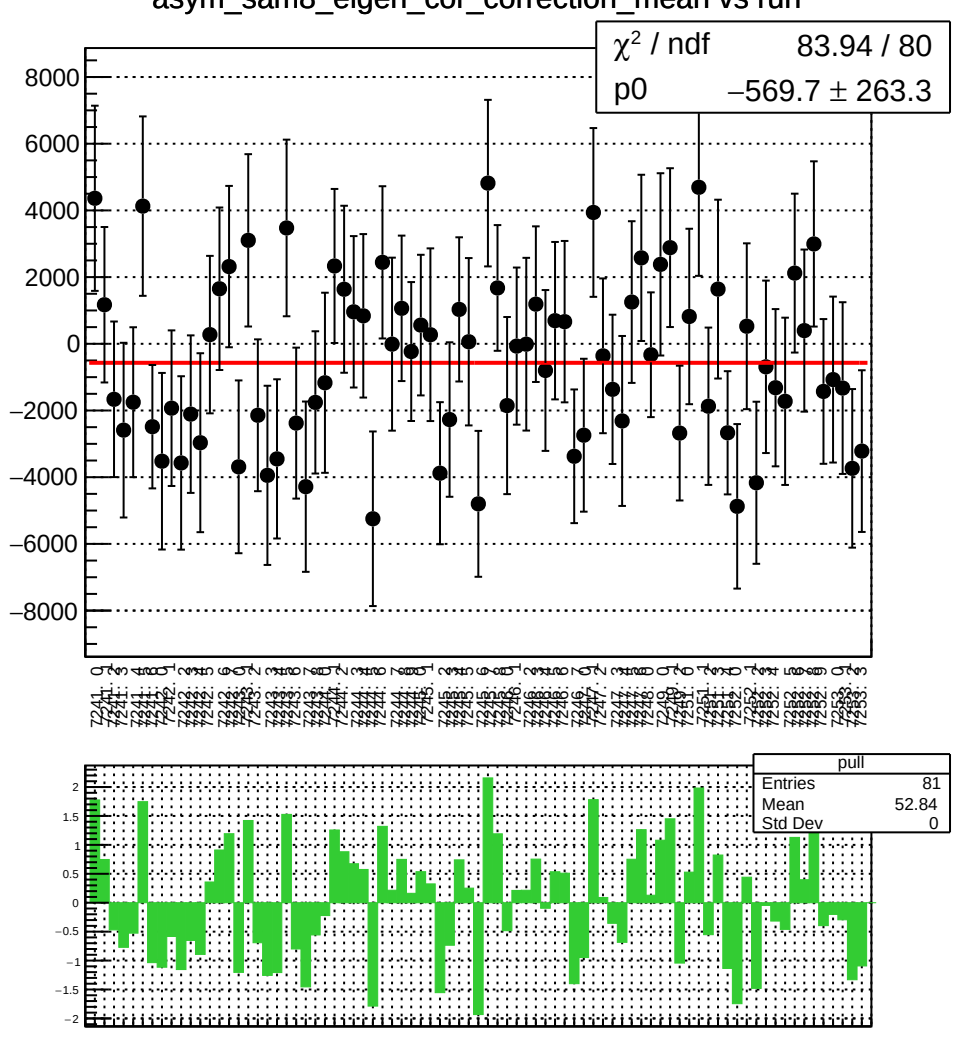
asym_sam8_cor_correction_rms vs run

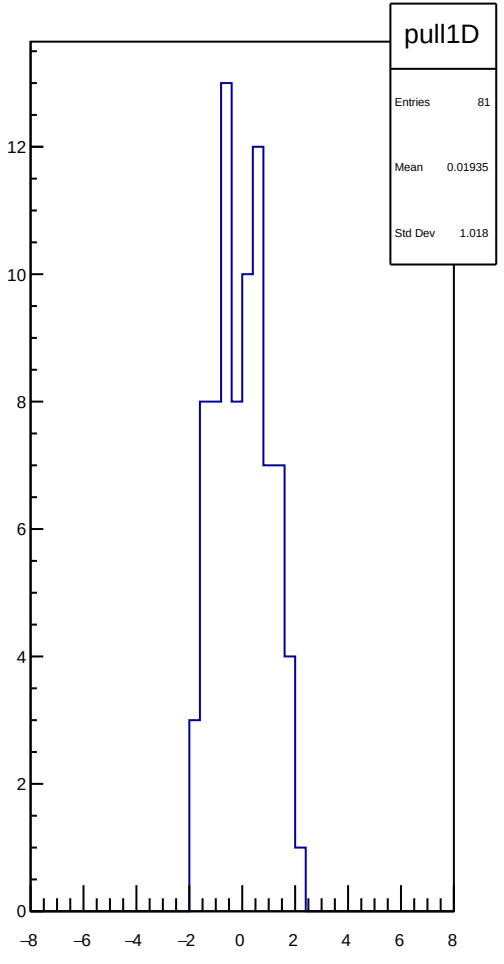


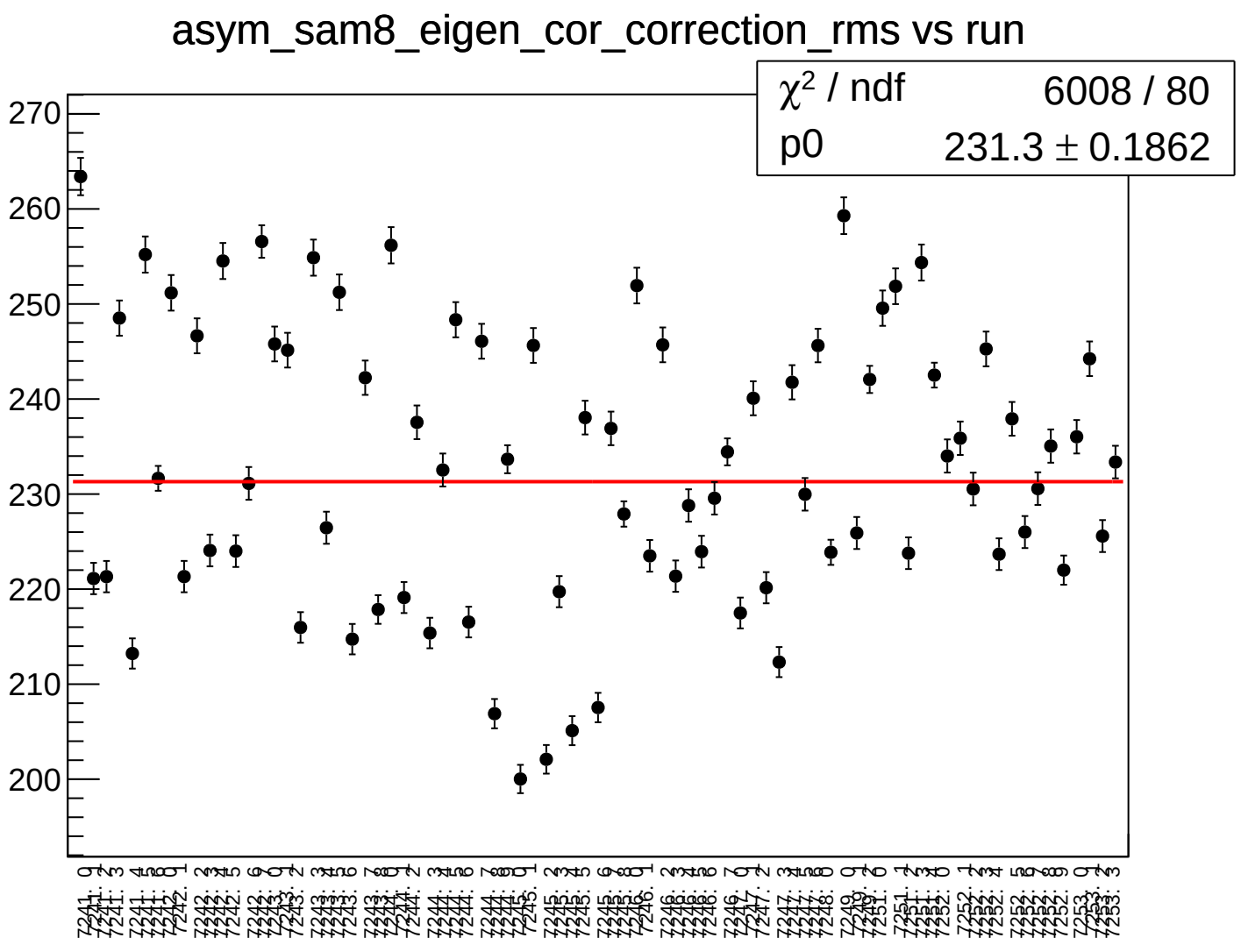

eigen_cor_asym_sam8_mean vs run
χ² / ndf 60.15 / 80
p0 −217.2 ± 62.46
pull
Entries 81
Mean 540.5
Std Dev 0

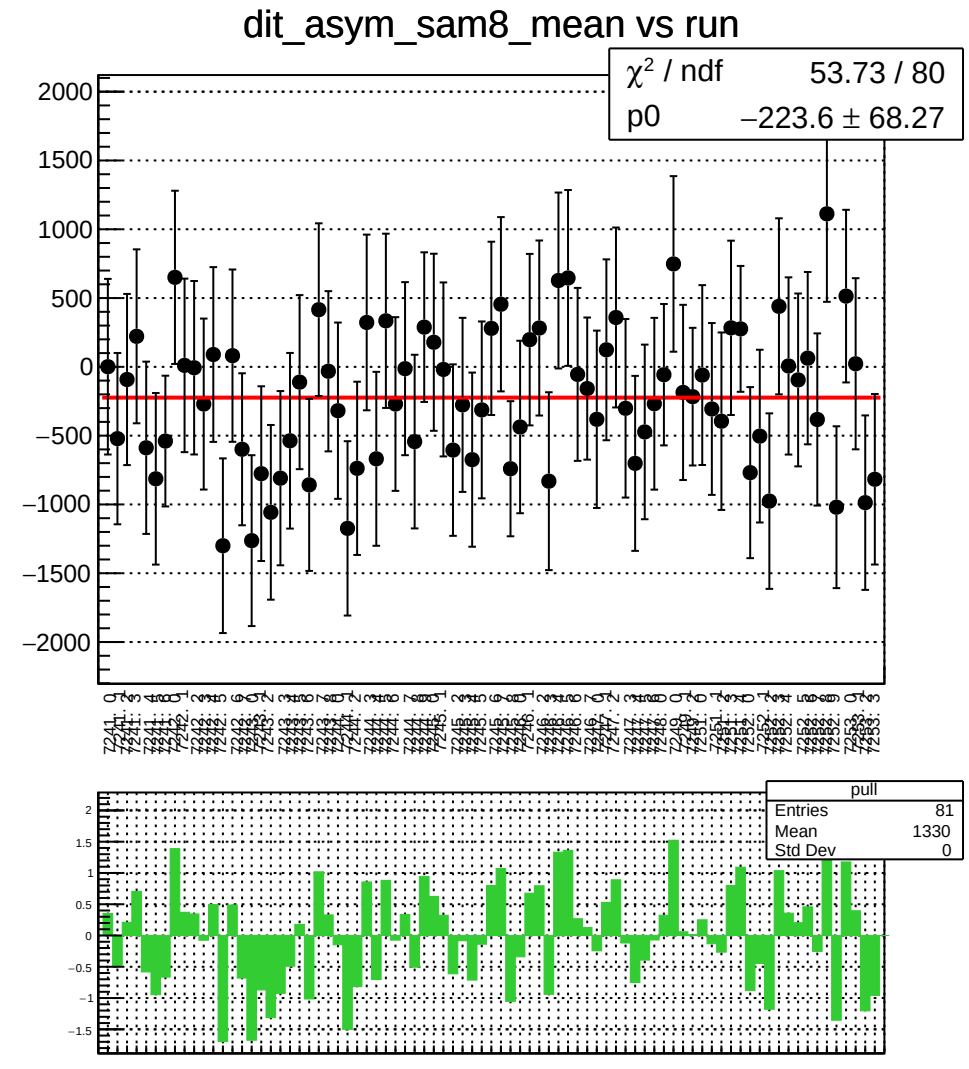

pull1D
Entries 81
Mean 0.008062
Std Dev 0.8617

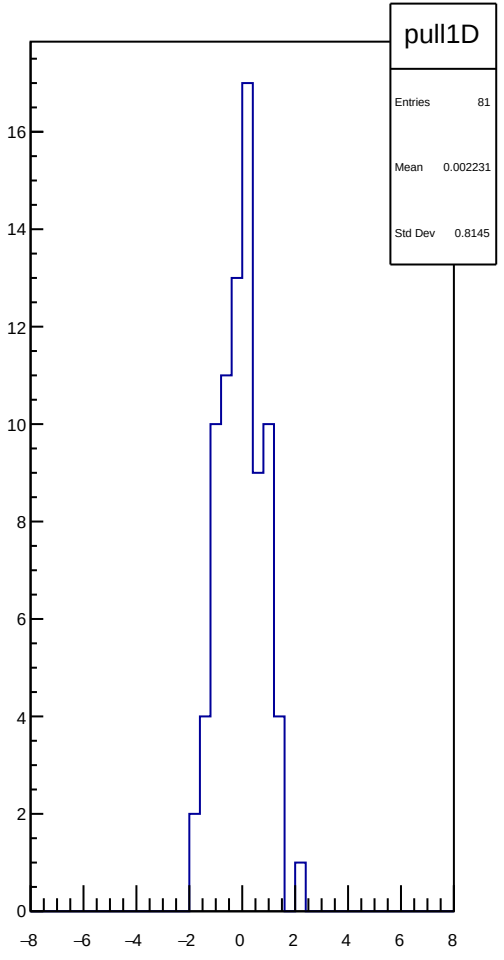

eigen_cor_asym_sam8_rms vs run
χ² / ndf 283.1 / 80
p0 54.97 ± 0.04416
58
57
56
55
54
53

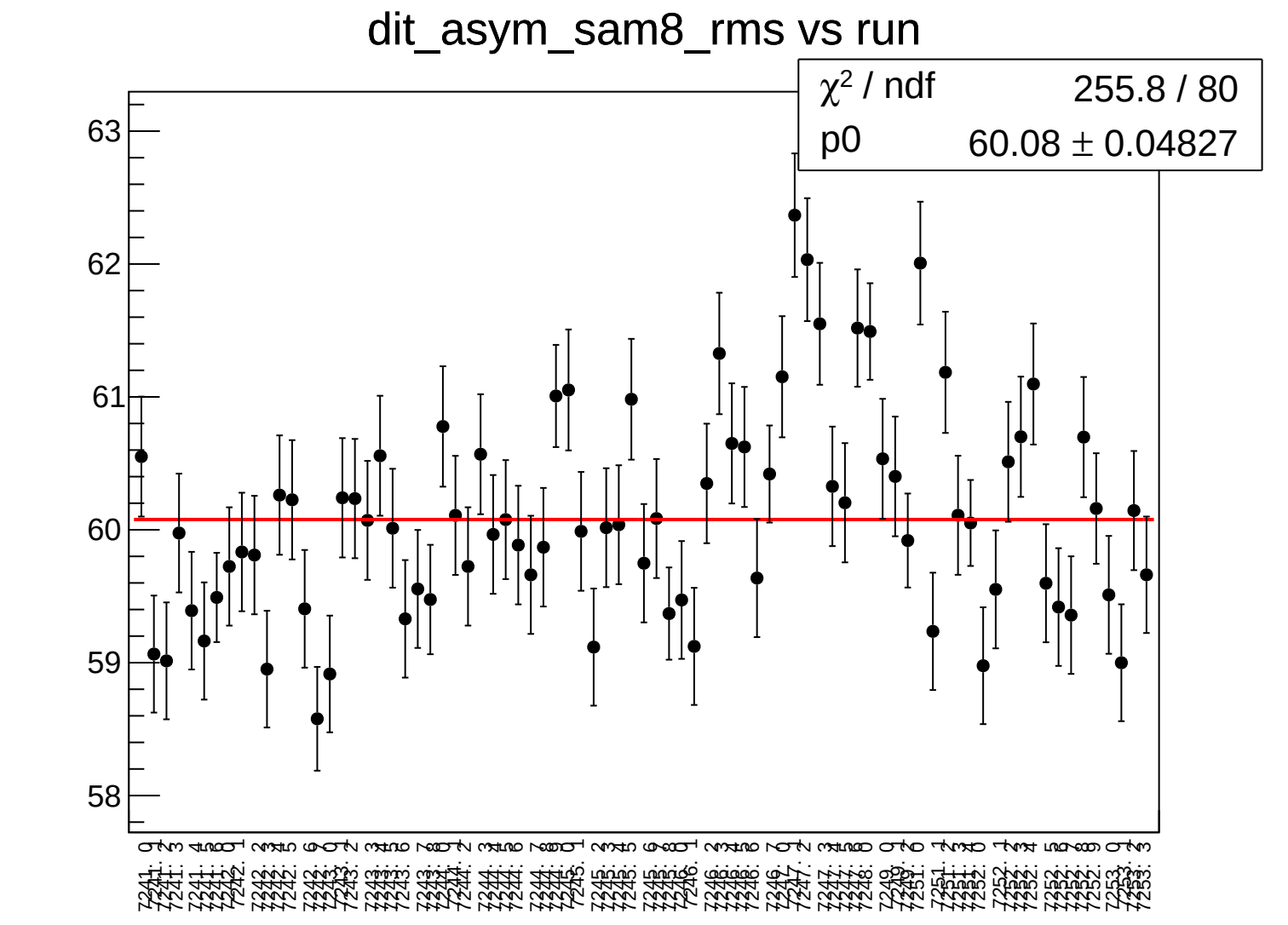

asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 83.94 / 80
p0 −569.7 ± 263.3
pull
Entries 81
Mean 52.84
Std Dev 0

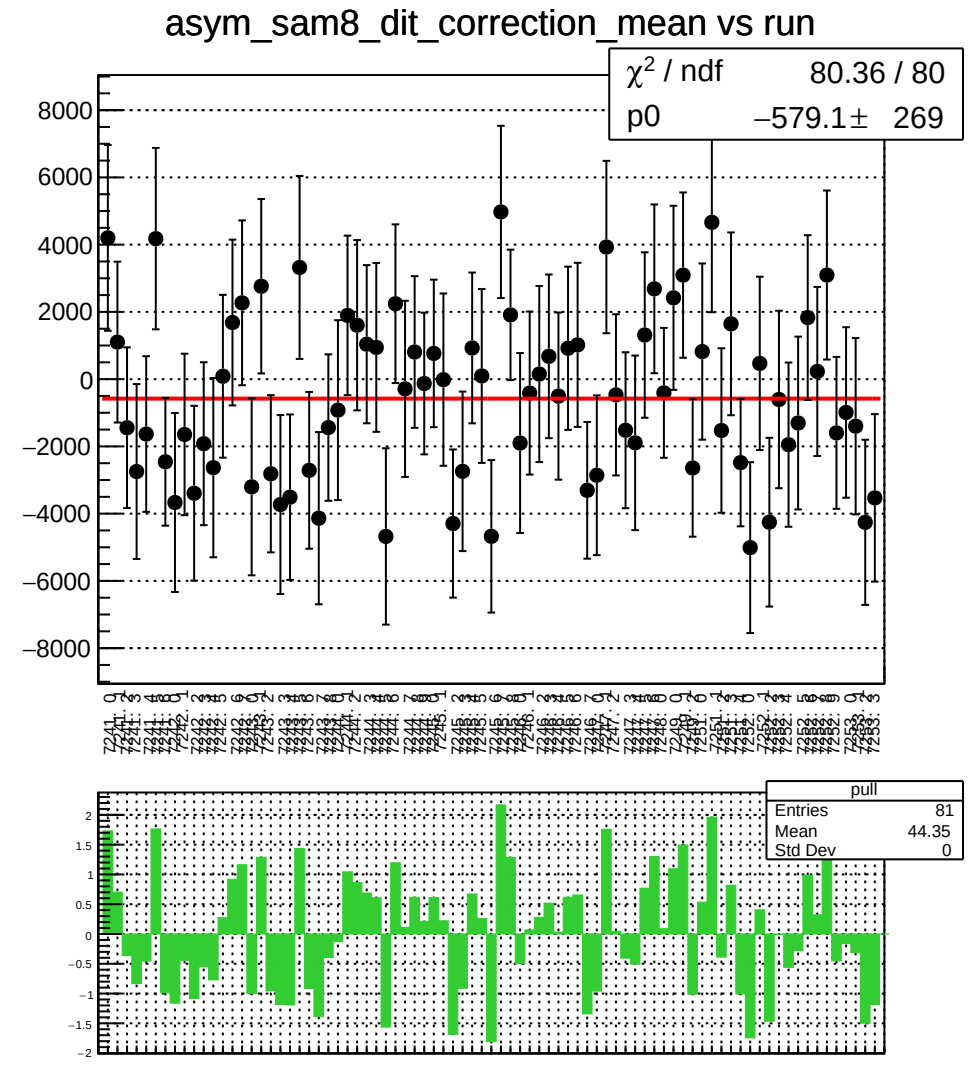

pull1D
Entries 81
Mean 0.01935
Std Dev 1.018

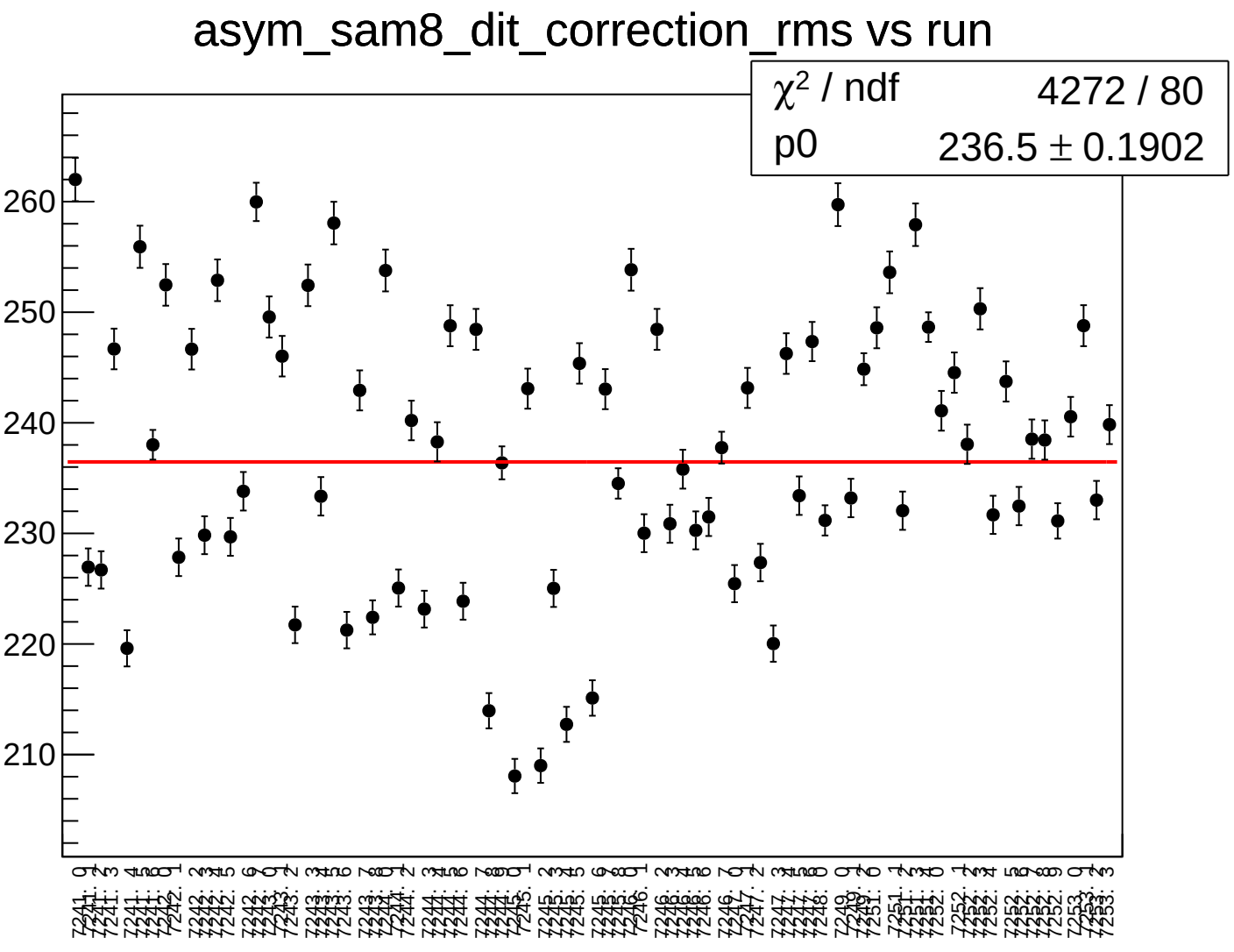

asym_sam8_eigen_cor_correction_rms vs run
χ² / ndf 6008 / 80
p0 231.3 ± 0.1862
270
260
250
240
230
220
210
200

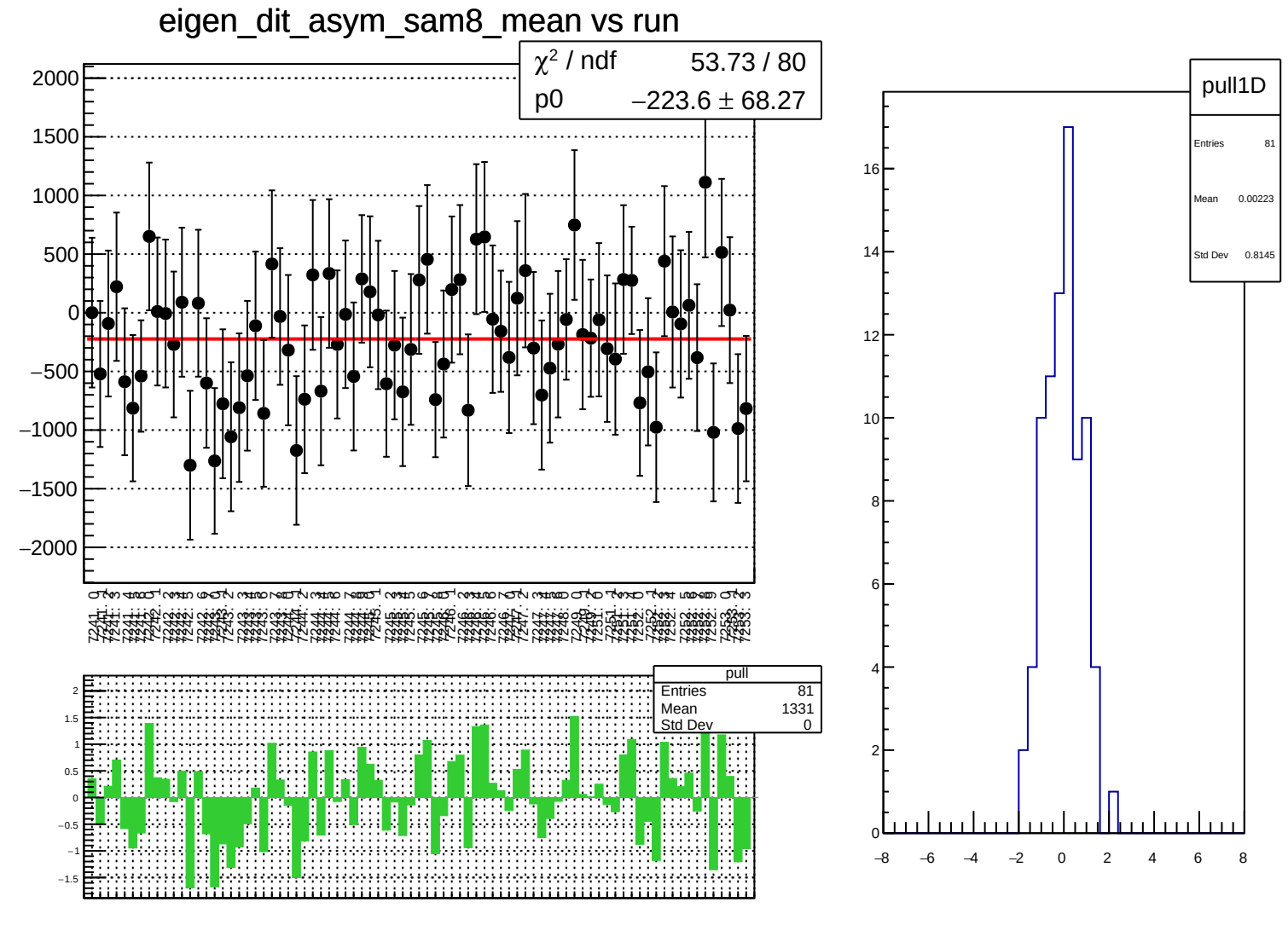

dit_asym_sam8_mean vs run
χ² / ndf 53.73 / 80
p0 −223.6 ± 68.27
pull
Entries 81
Mean 1330
Std Dev 0

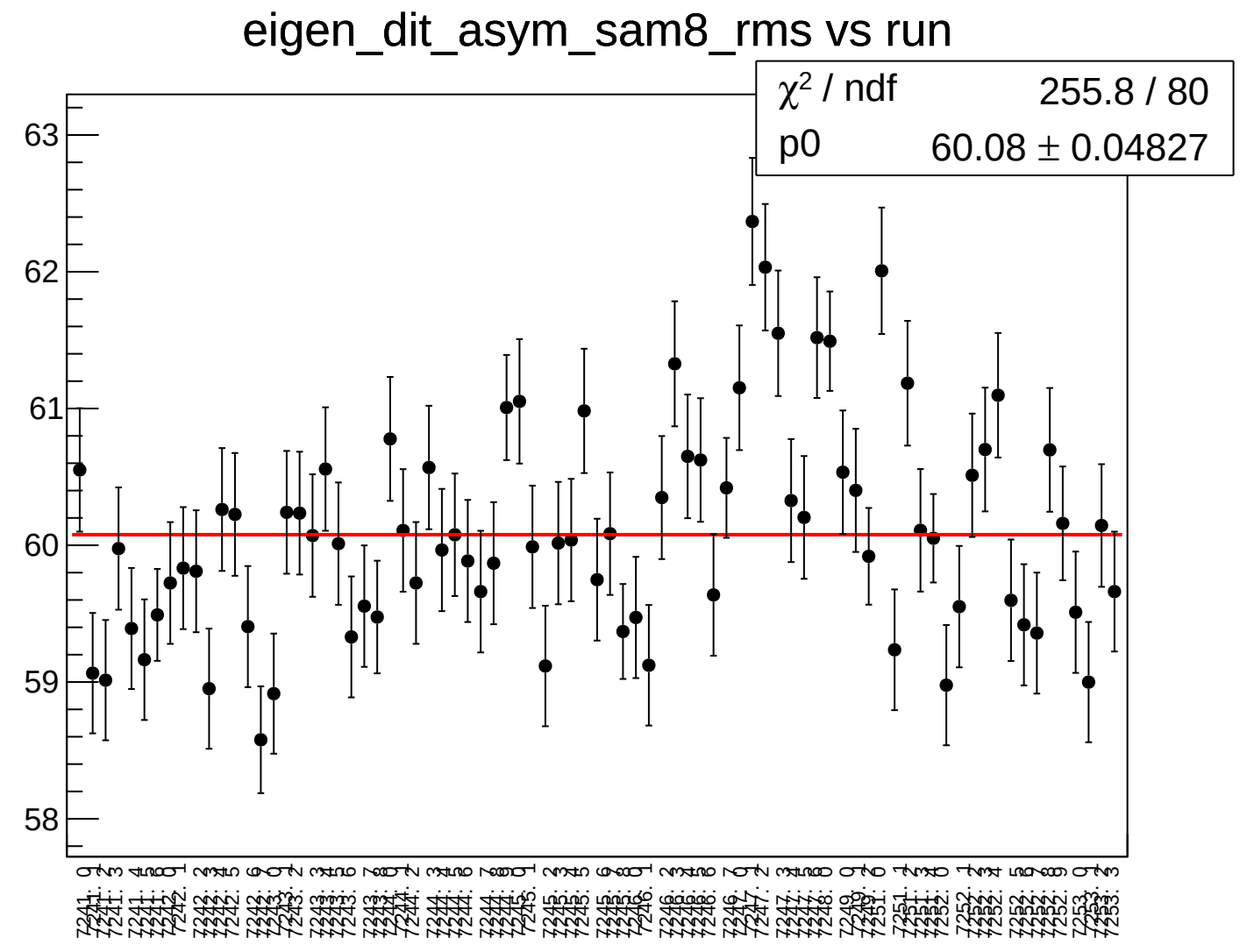

pull1D
Entries 81
Mean 0.002231
Std Dev 0.8145

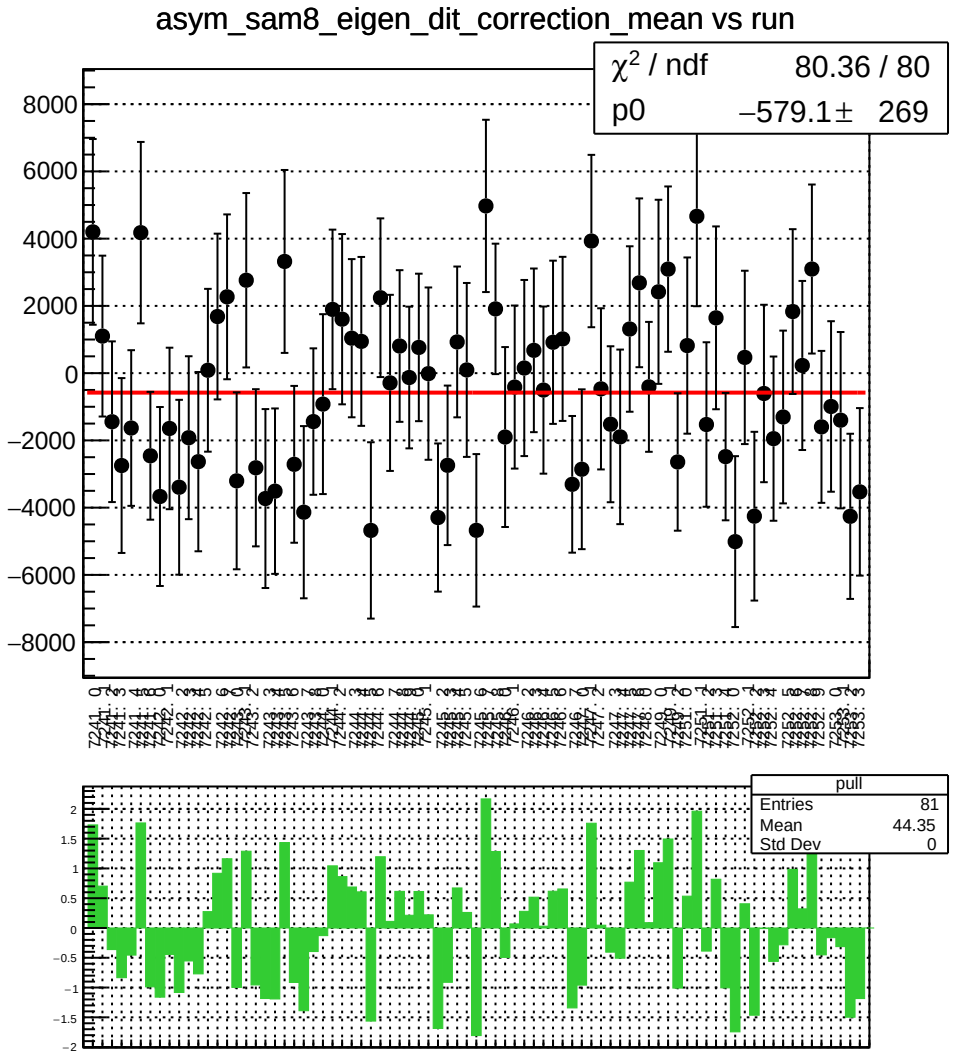

dit_asym_sam8_rms vs run
χ² / ndf 255.8 / 80
p0 60.08 ± 0.04827
63
62
61
60
59
58

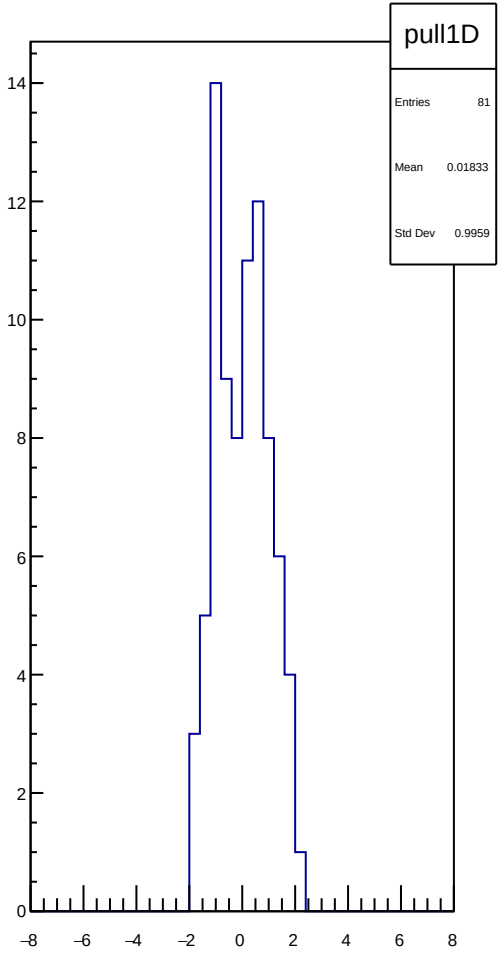

asym_sam8_dit_correction_mean vs run
χ² / ndf 80.36 / 80
p0 −579.1± 269
pull
Entries 81
Mean 44.35
Std Dev 0
pull1D
Entries 81
Mean 0.01833
Std Dev 0.9959

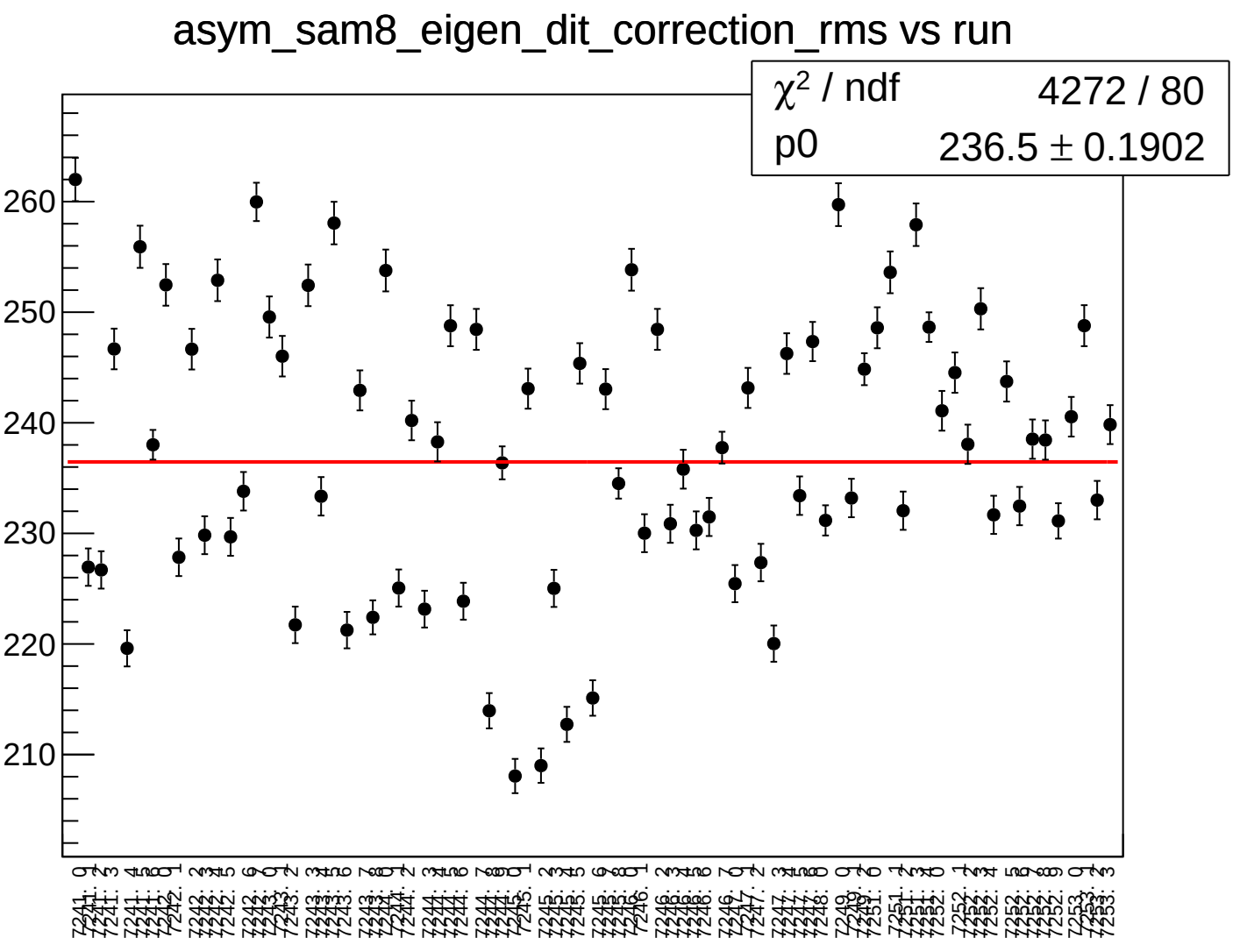

asym_sam8_dit_correction_rms vs run
χ² / ndf 4272 / 80
p0 236.5 ± 0.1902
260
250
240
230
220
210

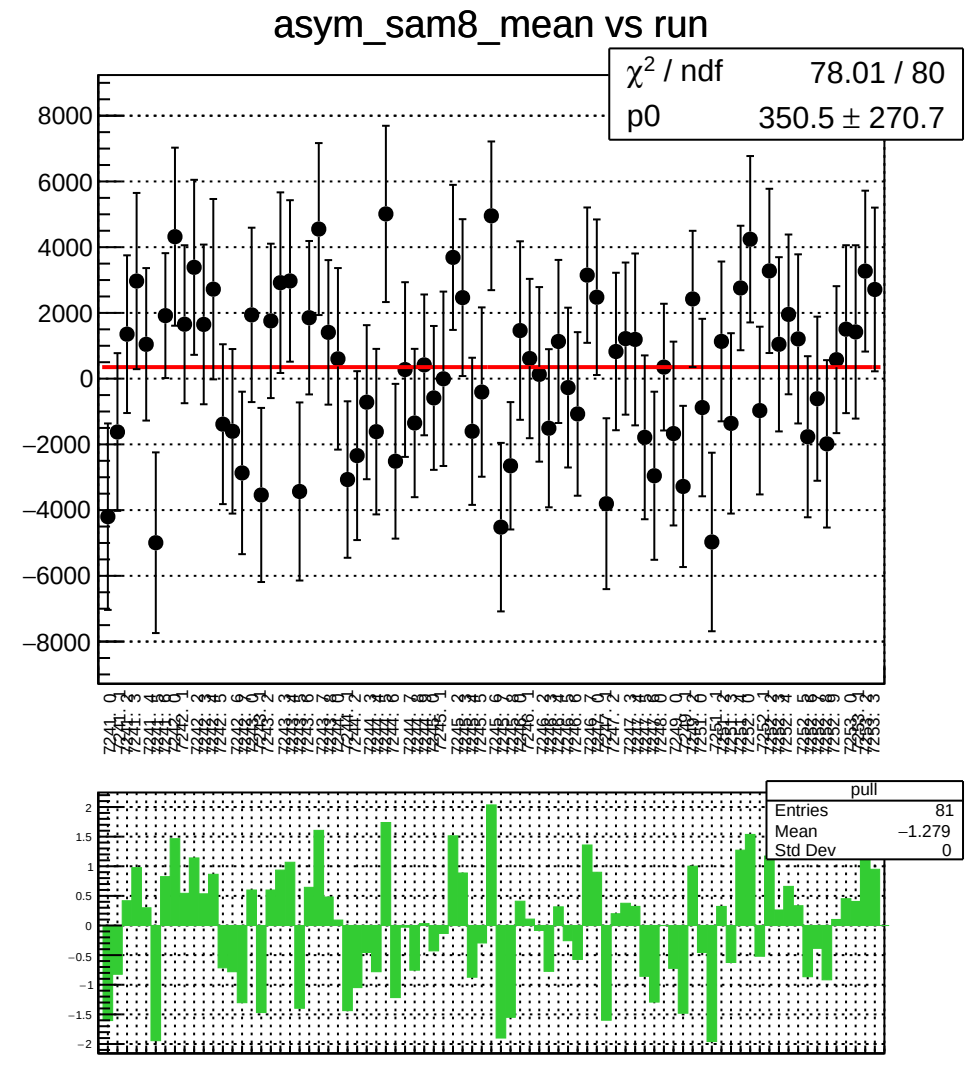

eigen_dit_asym_sam8_mean vs run
χ² / ndf 53.73 / 80
p0 −223.6 ± 68.27
pull
Entries 81
Mean 1331
Std Dev 0
pull1D
Entries 81
Mean 0.00223
Std Dev 0.8145

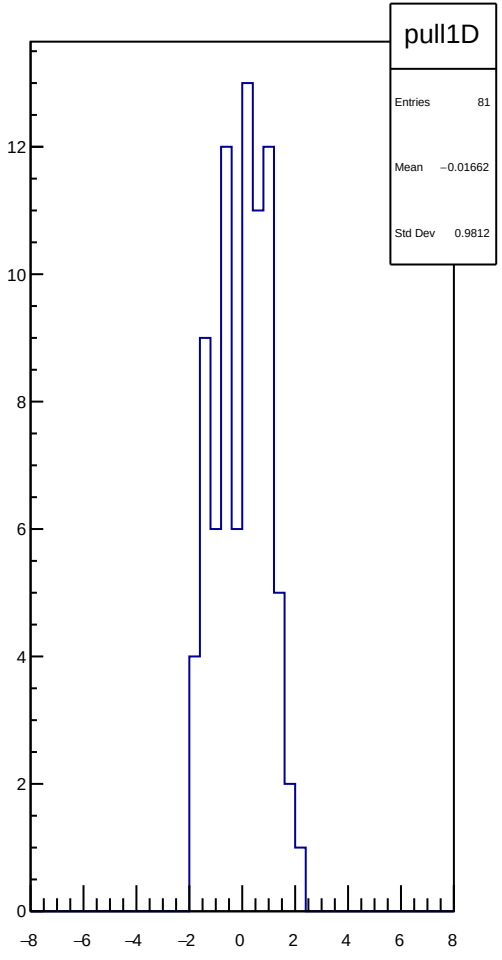

eigen_dit_asym_sam8_rms vs run
χ² / ndf 255.8 / 80
p0 60.08 ± 0.04827
63
62
61
60
59
58

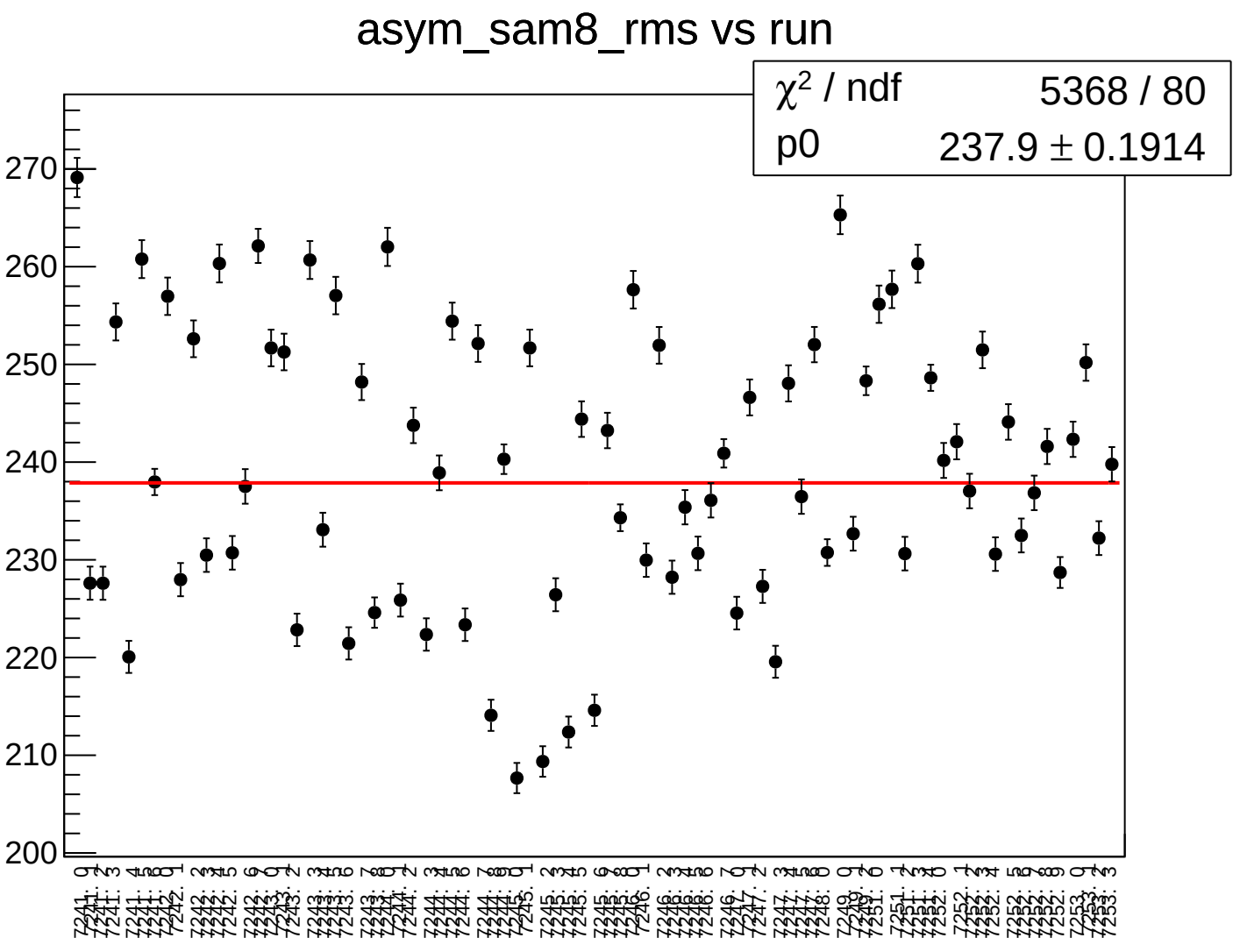

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 80.36 / 80
p0 −579.1± 269
pull
Entries 81
Mean 44.35
Std Dev 0

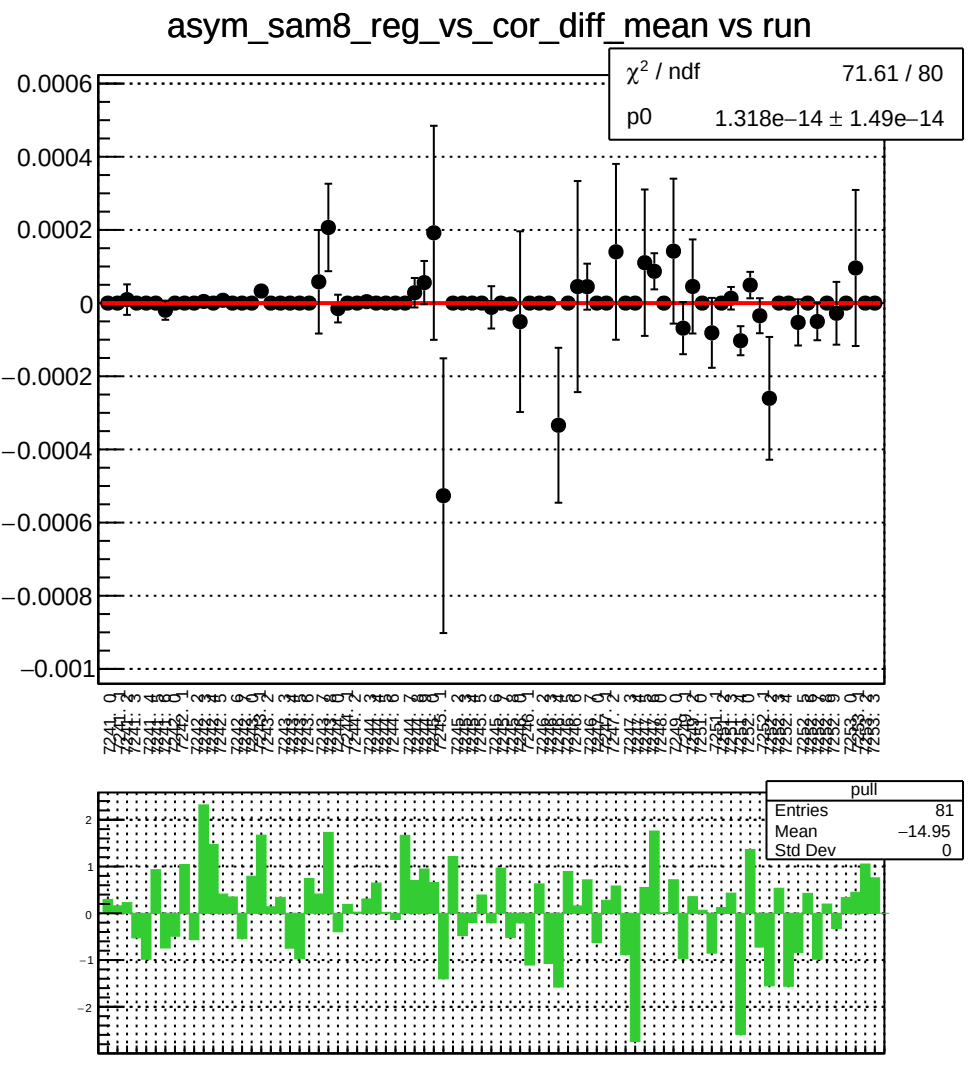

pull1D
Entries 81
Mean 0.01833
Std Dev 0.9959

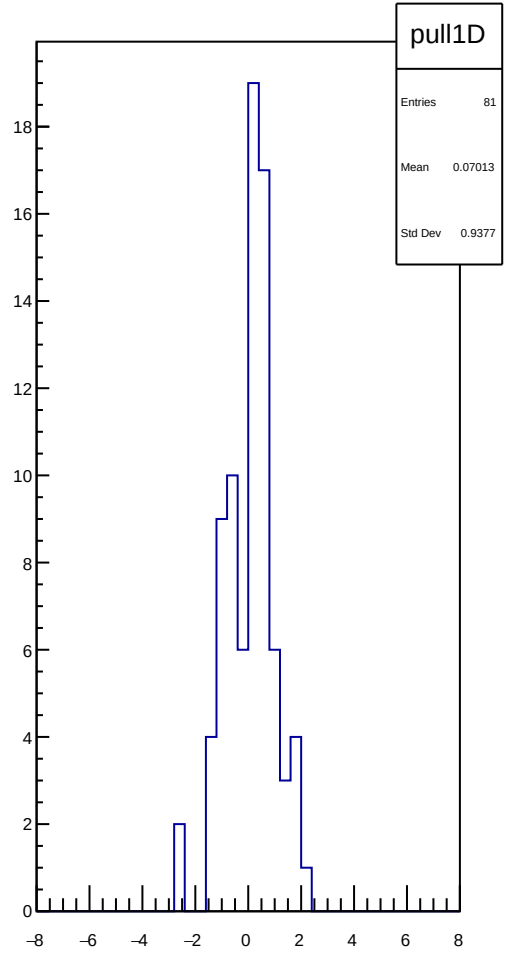

asym_sam8_eigen_dit_correction_rms vs run
χ² / ndf 4272 / 80
p0 236.5 ± 0.1902
260
250
240
230
220
210

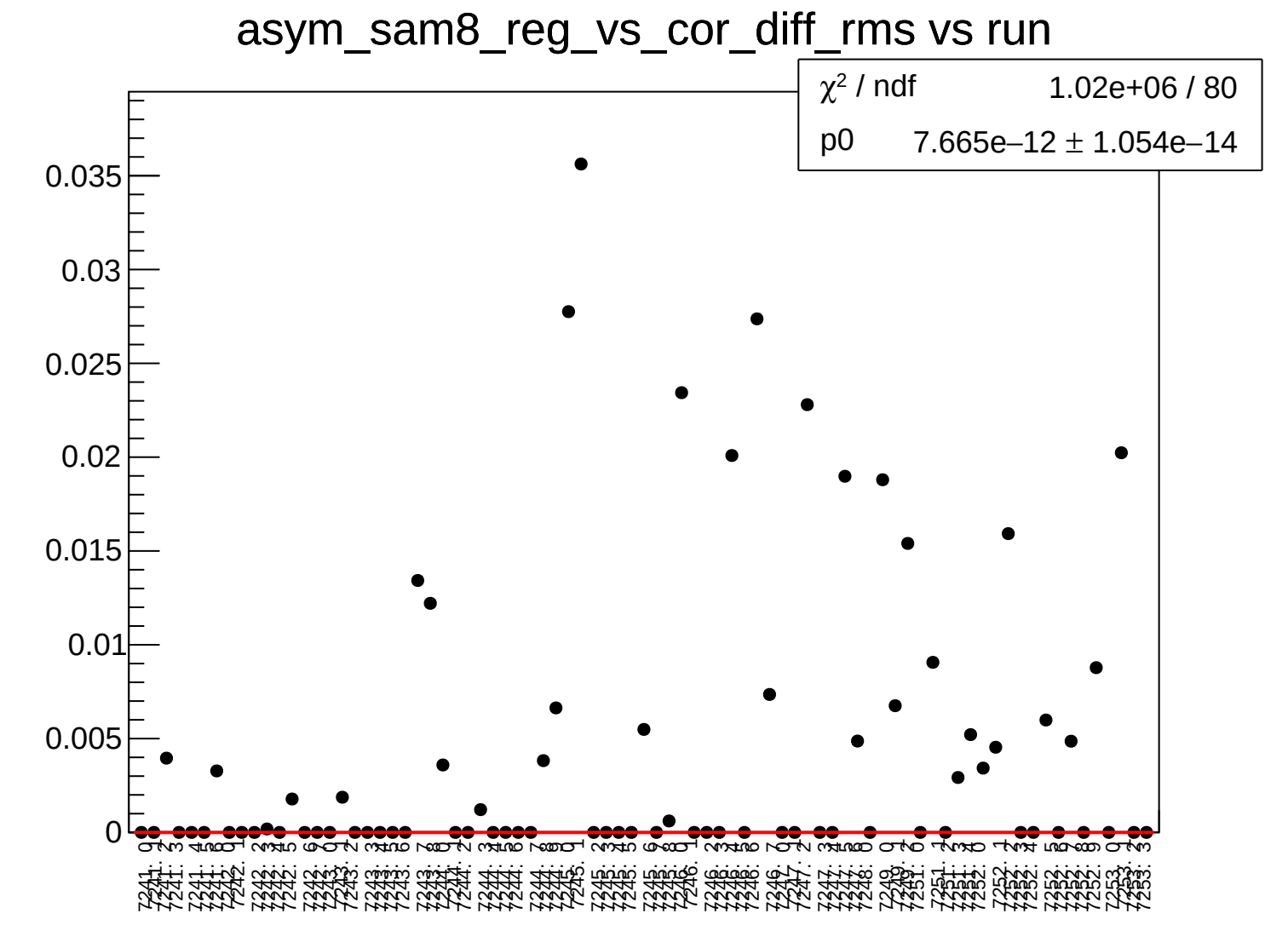

asym_sam8_mean vs run
χ² / ndf 78.01 / 80
p0 350.5 ± 270.7
pull
Entries 81
Mean −1.279
Std Dev 0

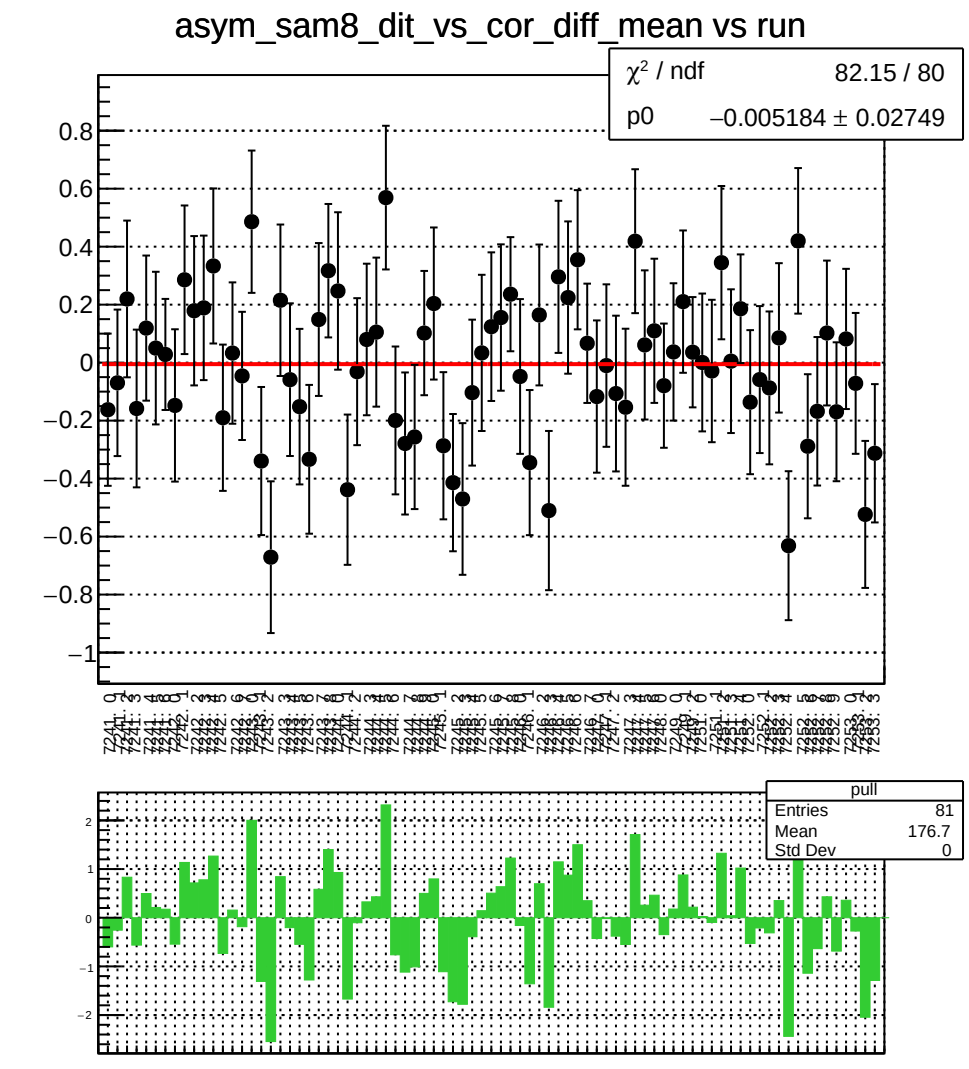

pull1D
Entries 81
Mean −0.01662
Std Dev 0.9812

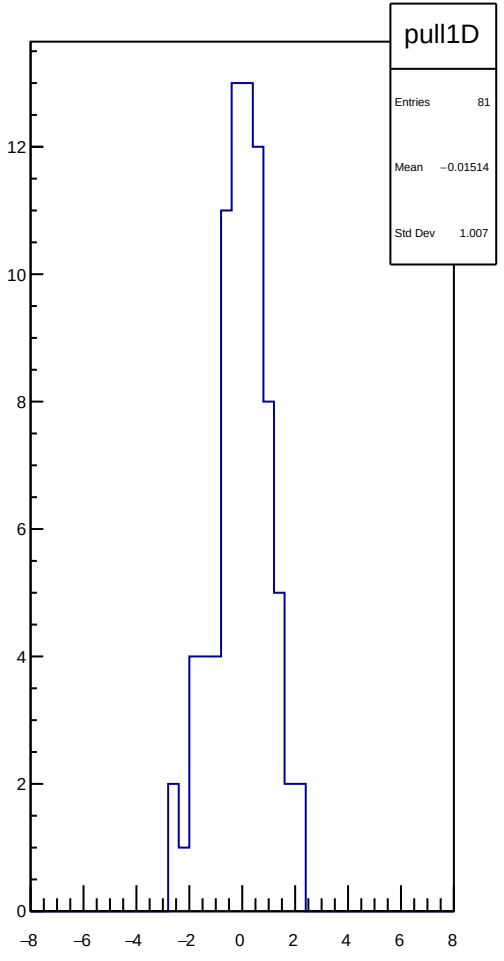

asym_sam8_rms vs run
χ² / ndf 5368 / 80
p0 237.9 ± 0.1914
270
260
250
240
230
220
210
200

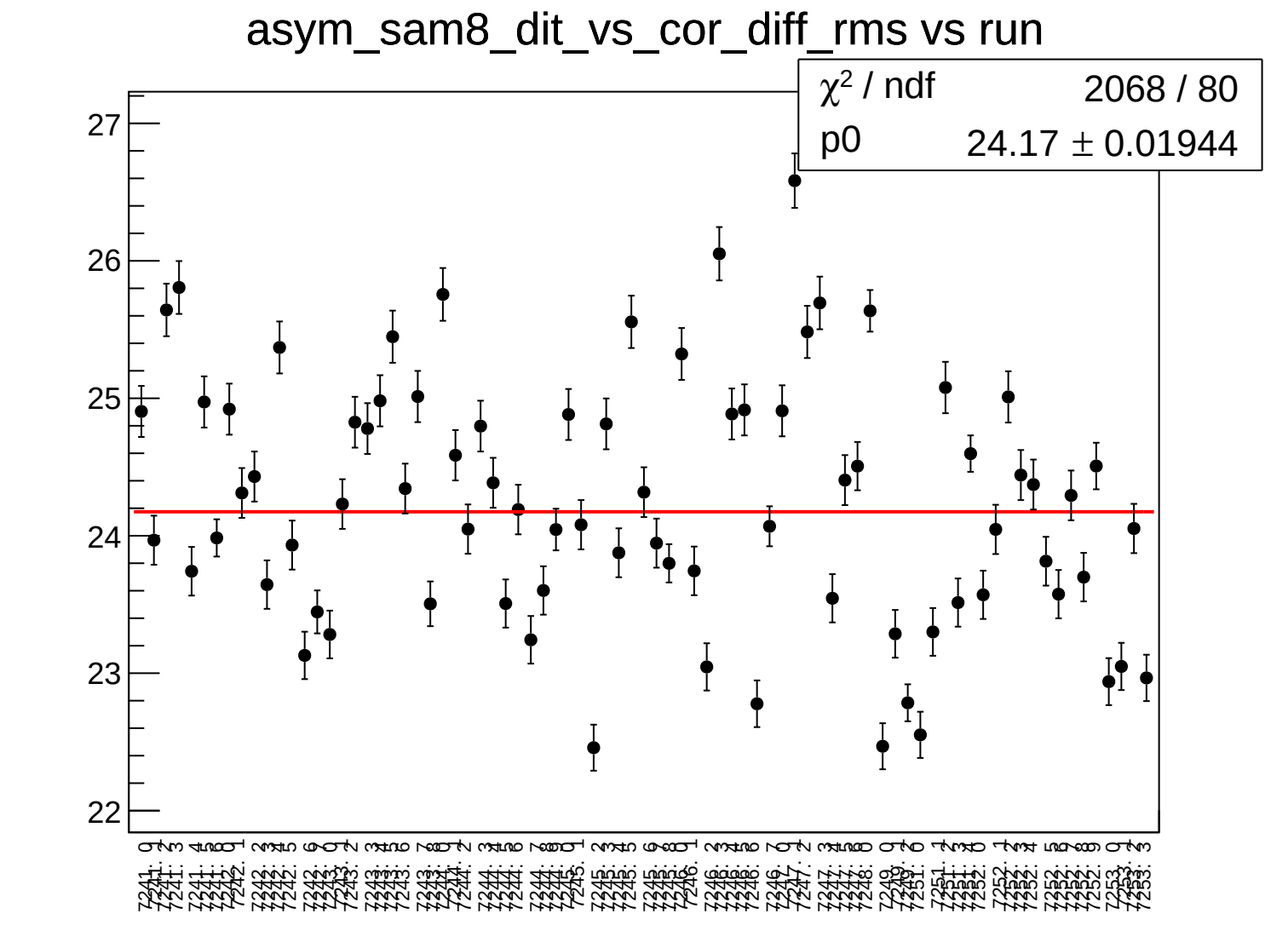

asym_sam8_reg_vs_cor_diff_mean vs run
χ² / ndf 71.61 / 80
p0 1.318e−14 ± 1.49e−14
pull
Entries 81
Mean −14.95
Std Dev 0

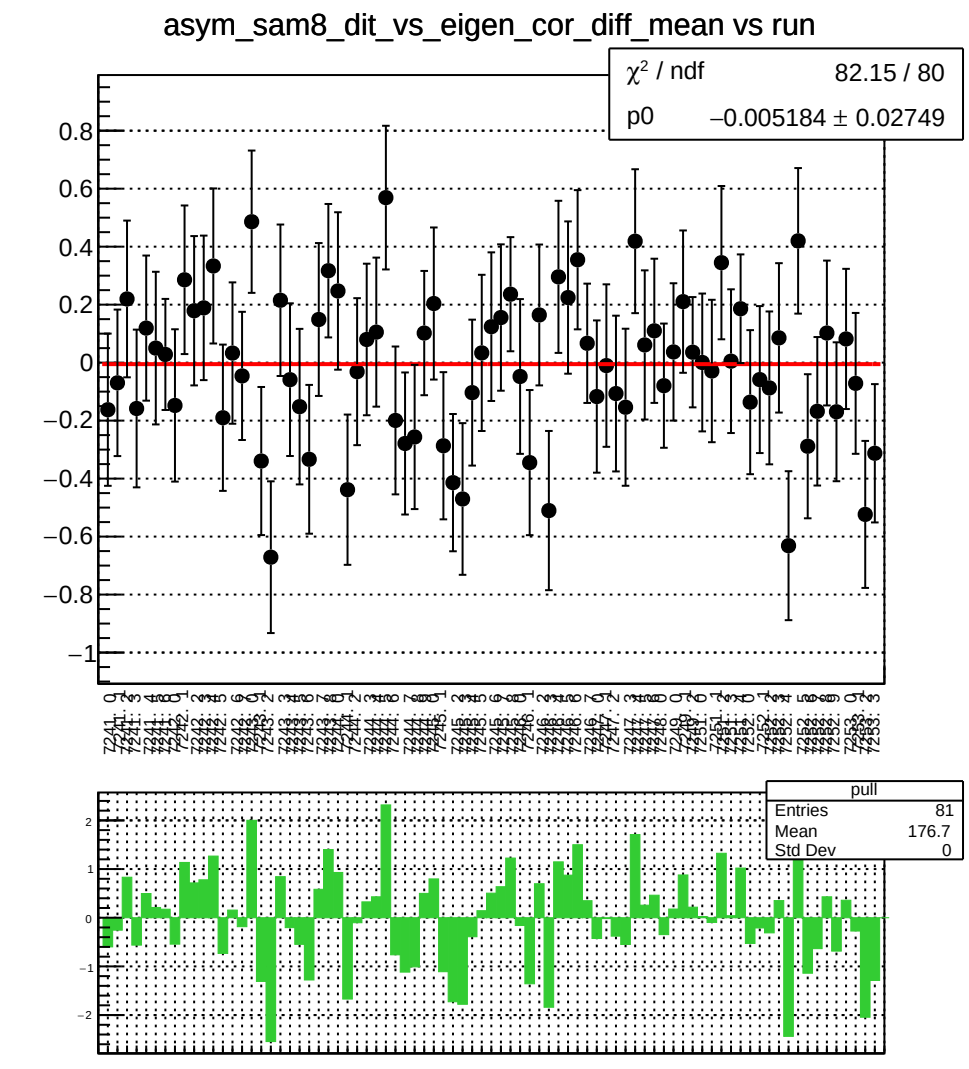

pull1D
Entries 81
Mean 0.07013
Std Dev 0.9377

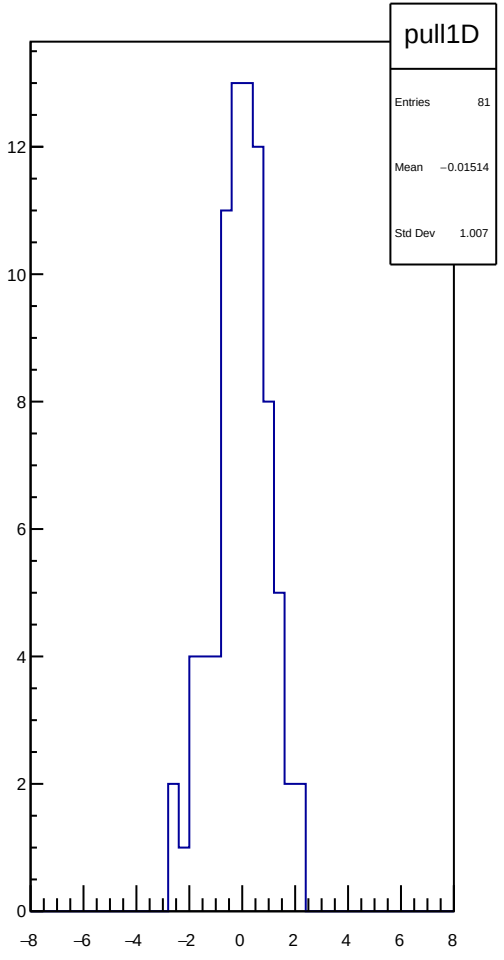

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 1.02e+06 / 80
p0 7.665e−12 ± 1.054e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

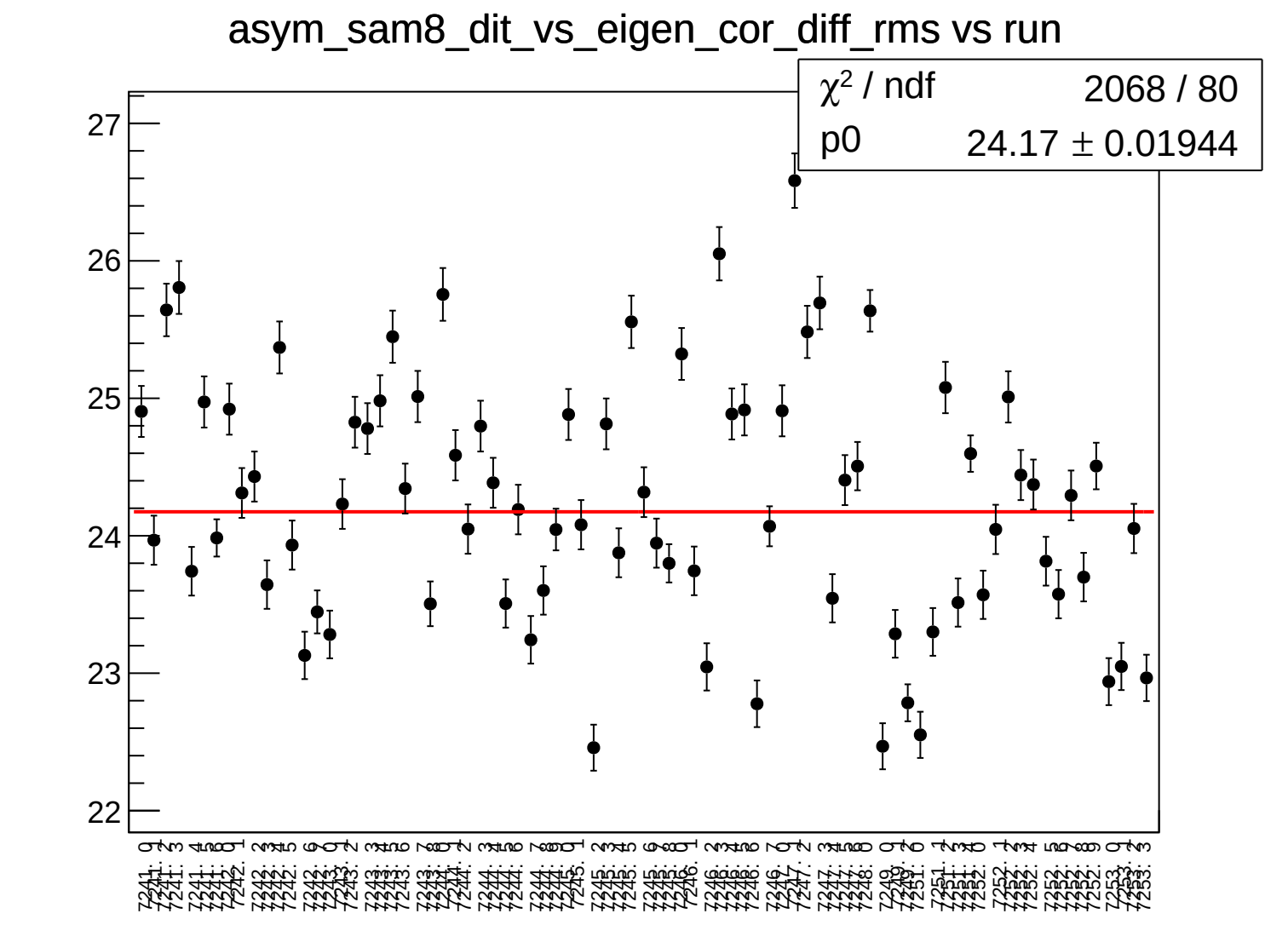

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 82.15 / 80
p0 −0.005184 ± 0.02749
pull
Entries 81
Mean 176.7
Std Dev 0

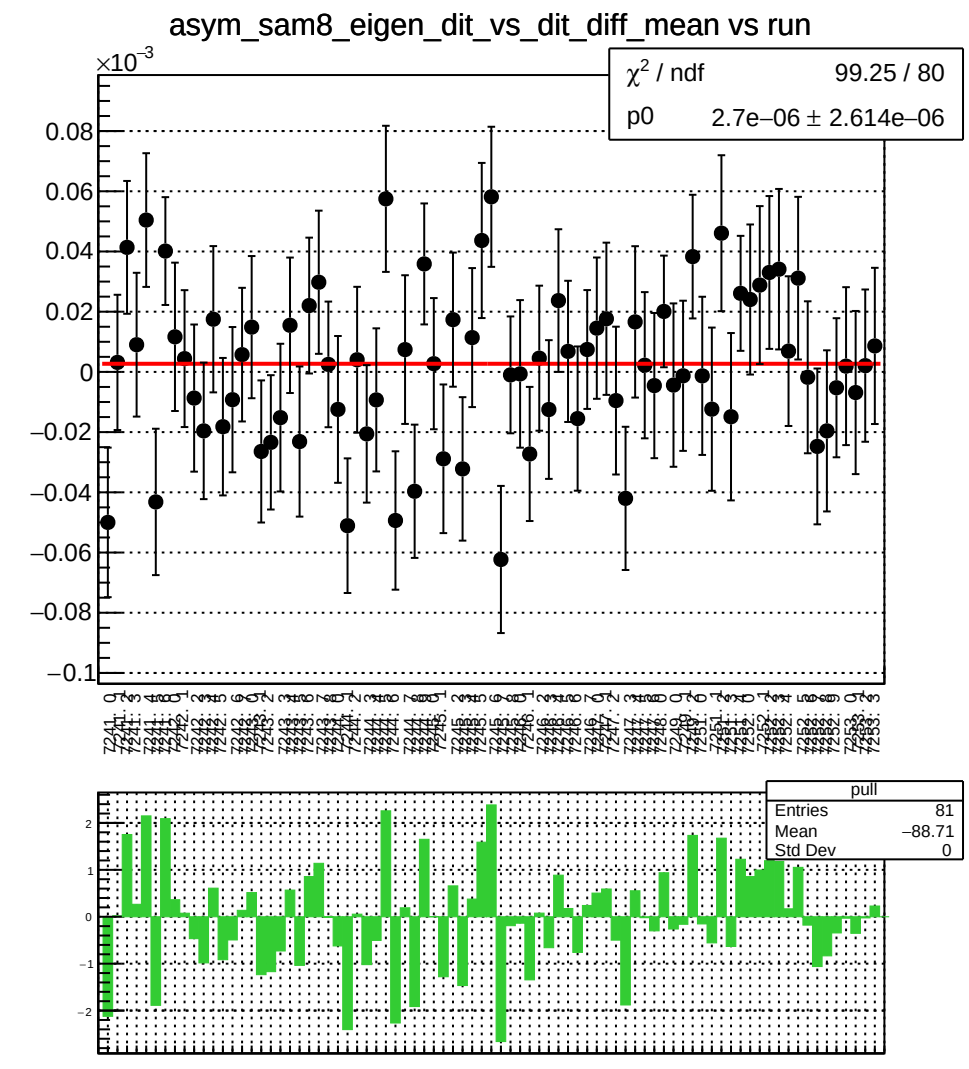

pull1D
Entries 81
Mean −0.01514
Std Dev 1.007

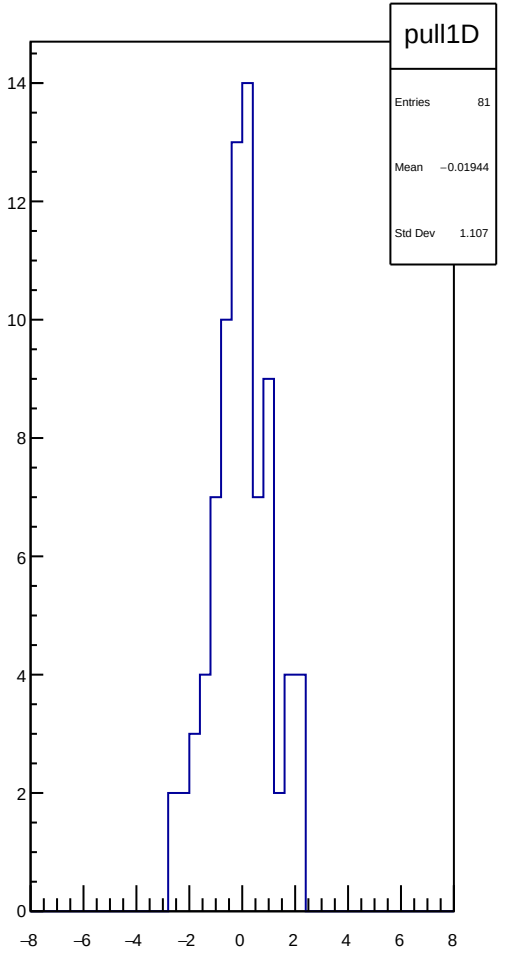

asym_sam8_dit_vs_cor_diff_rms vs run
χ² / ndf 2068 / 80
p0 24.17 ± 0.01944
27
26
25
24
23
22

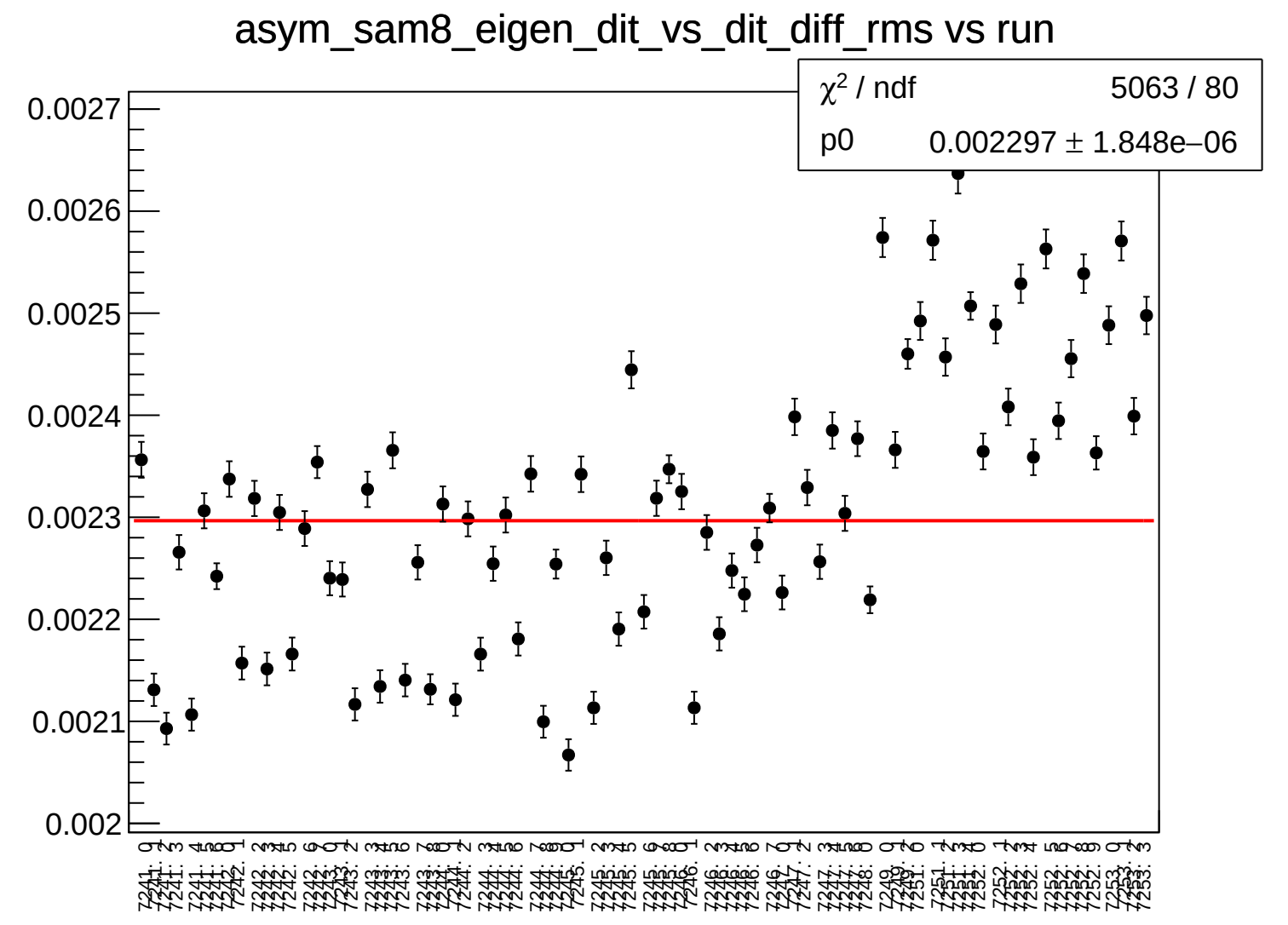

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.15 / 80
p0 −0.005184 ± 0.02749
pull
Entries 81
Mean 176.7
Std Dev 0

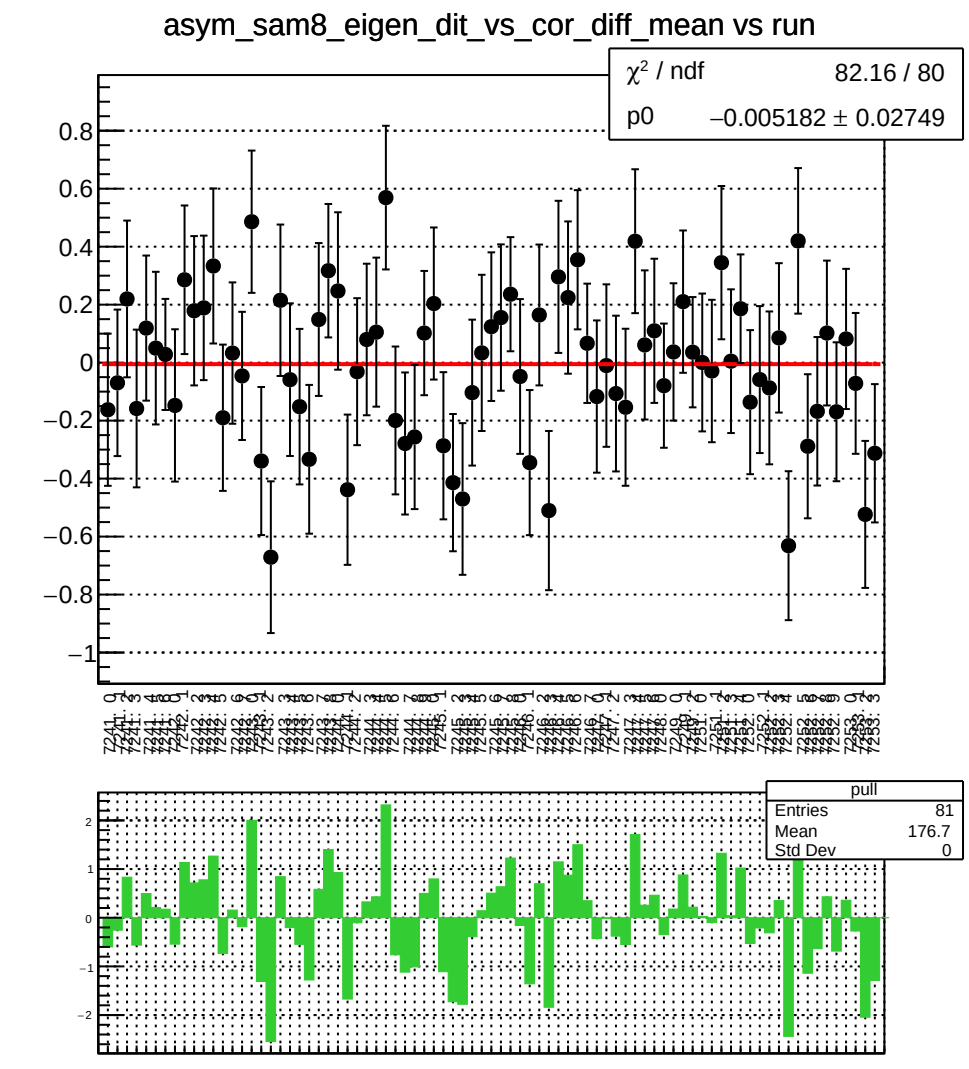

pull1D
Entries 81
Mean −0.01514
Std Dev 1.007

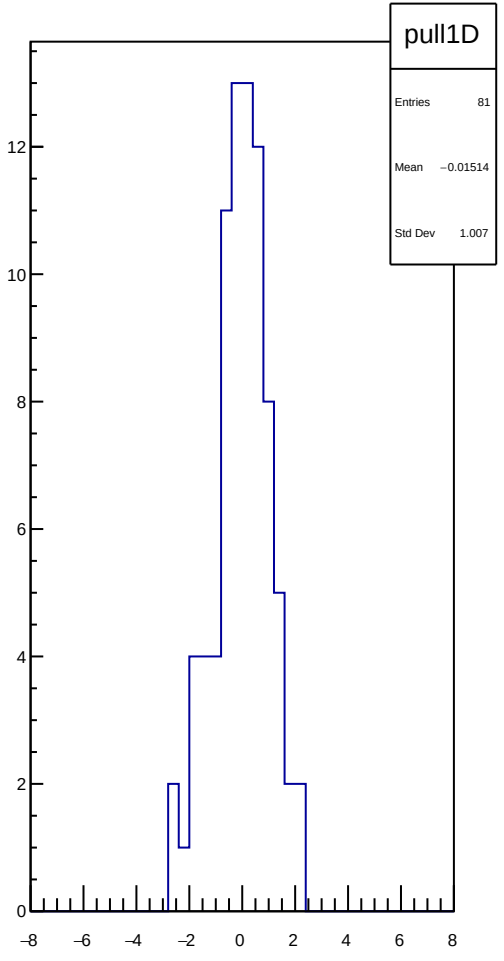

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2068 / 80
p0 24.17 ± 0.01944
27
26
25
24
23
22

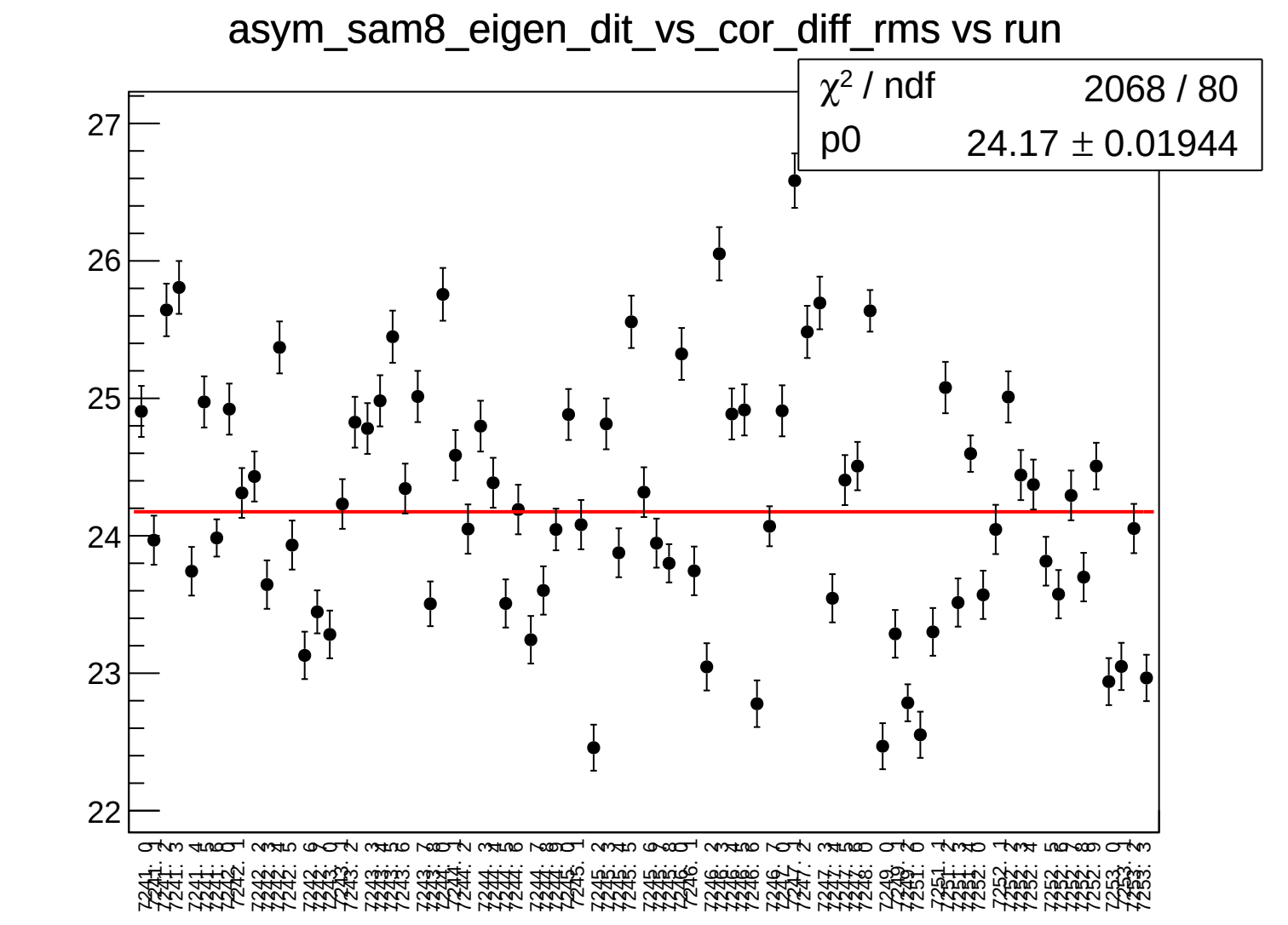

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.25 / 80
p0 2.7e−06 ± 2.614e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 81
Mean −88.71
Std Dev 0
2
1
0
−1
−2

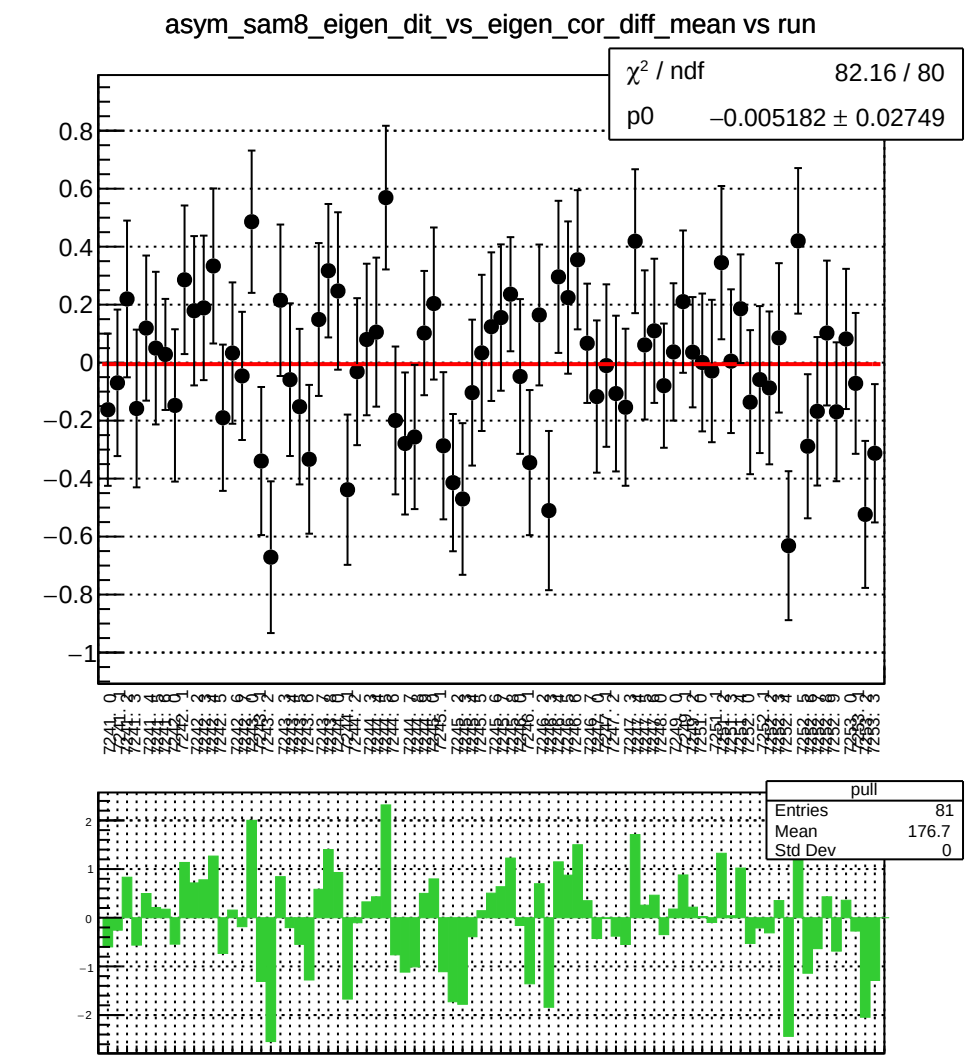

pull1D
Entries 81
Mean −0.01944
Std Dev 1.107
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

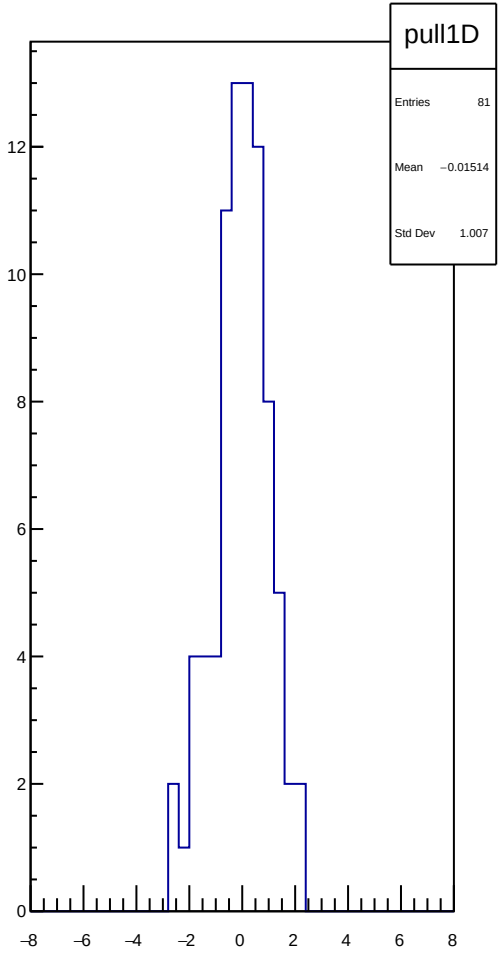

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5063 / 80
p0 0.002297 ± 1.848e−06
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002

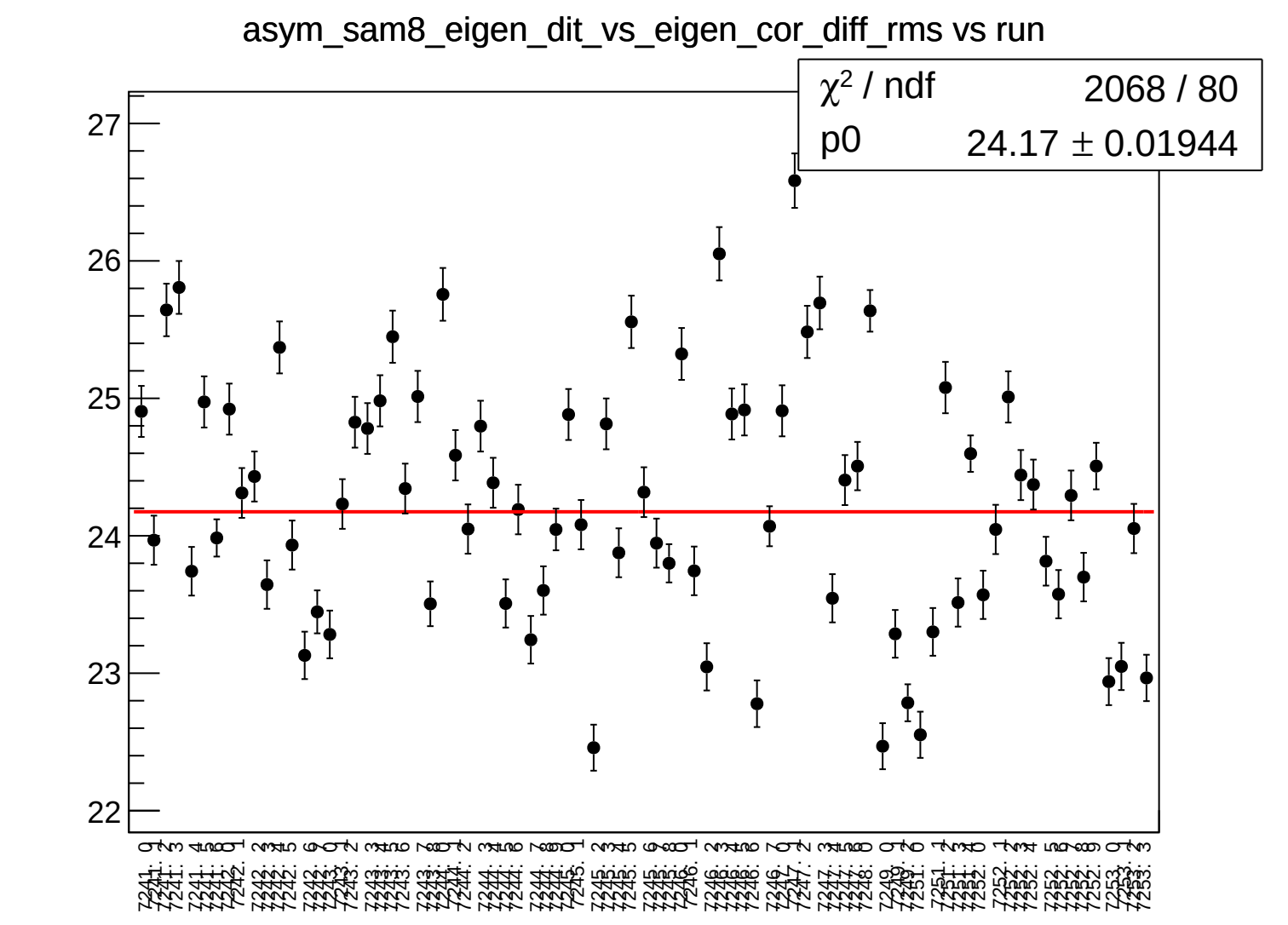

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.16 / 80
p0 −0.005182 ± 0.02749
pull
Entries 81
Mean 176.7
Std Dev 0

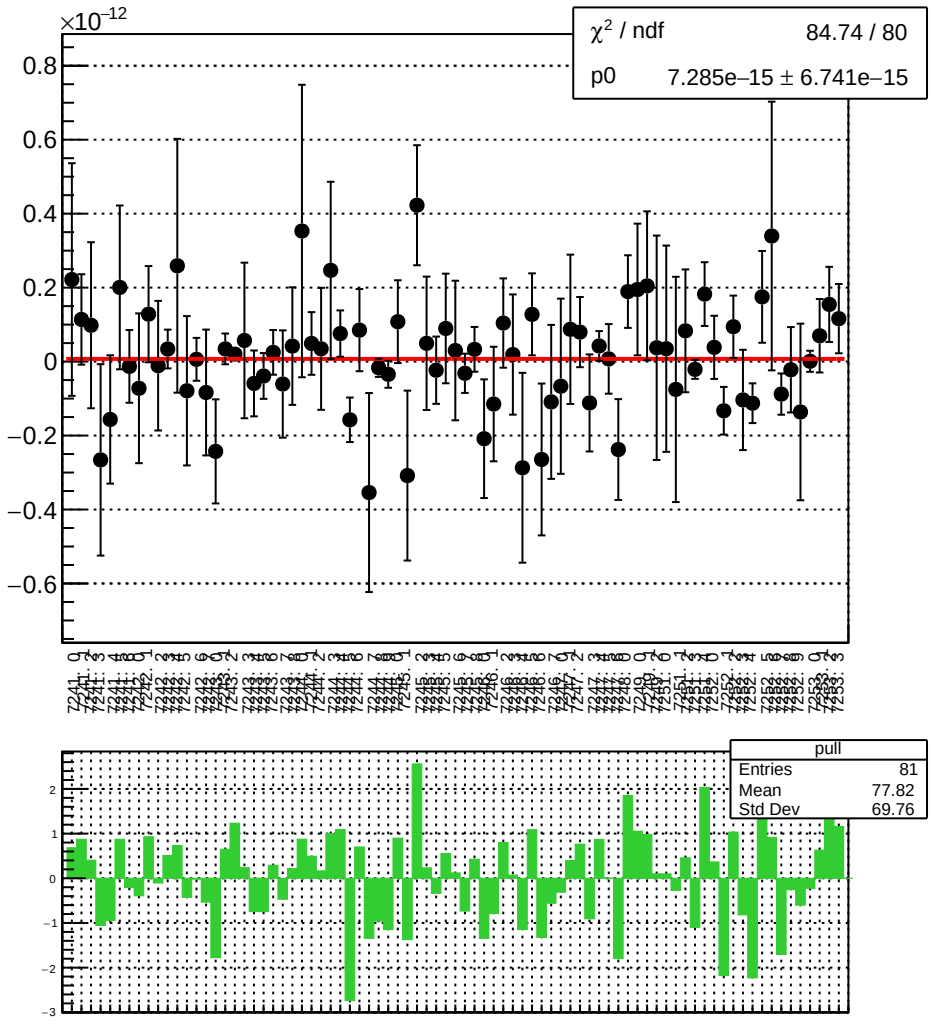

pull1D
Entries 81
Mean −0.01514
Std Dev 1.007

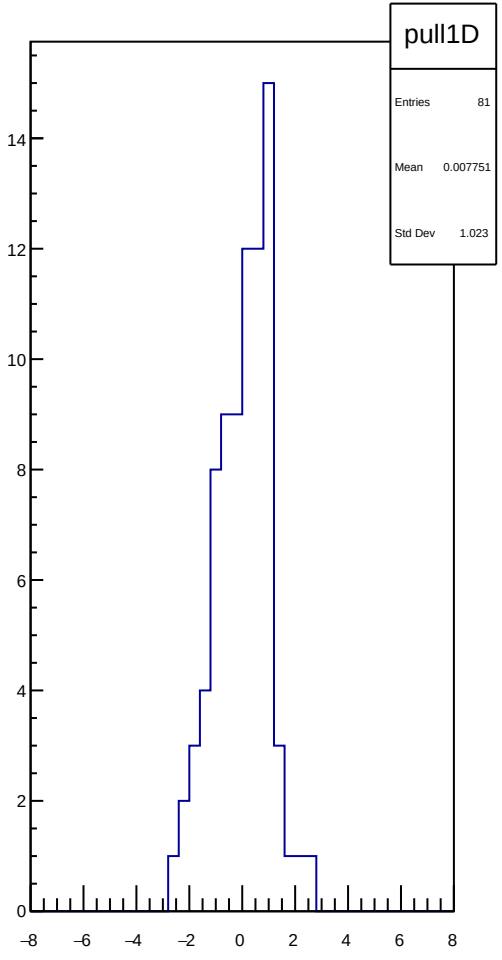

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2068 / 80
p0 24.17 ± 0.01944
27
26
25
24
23
22

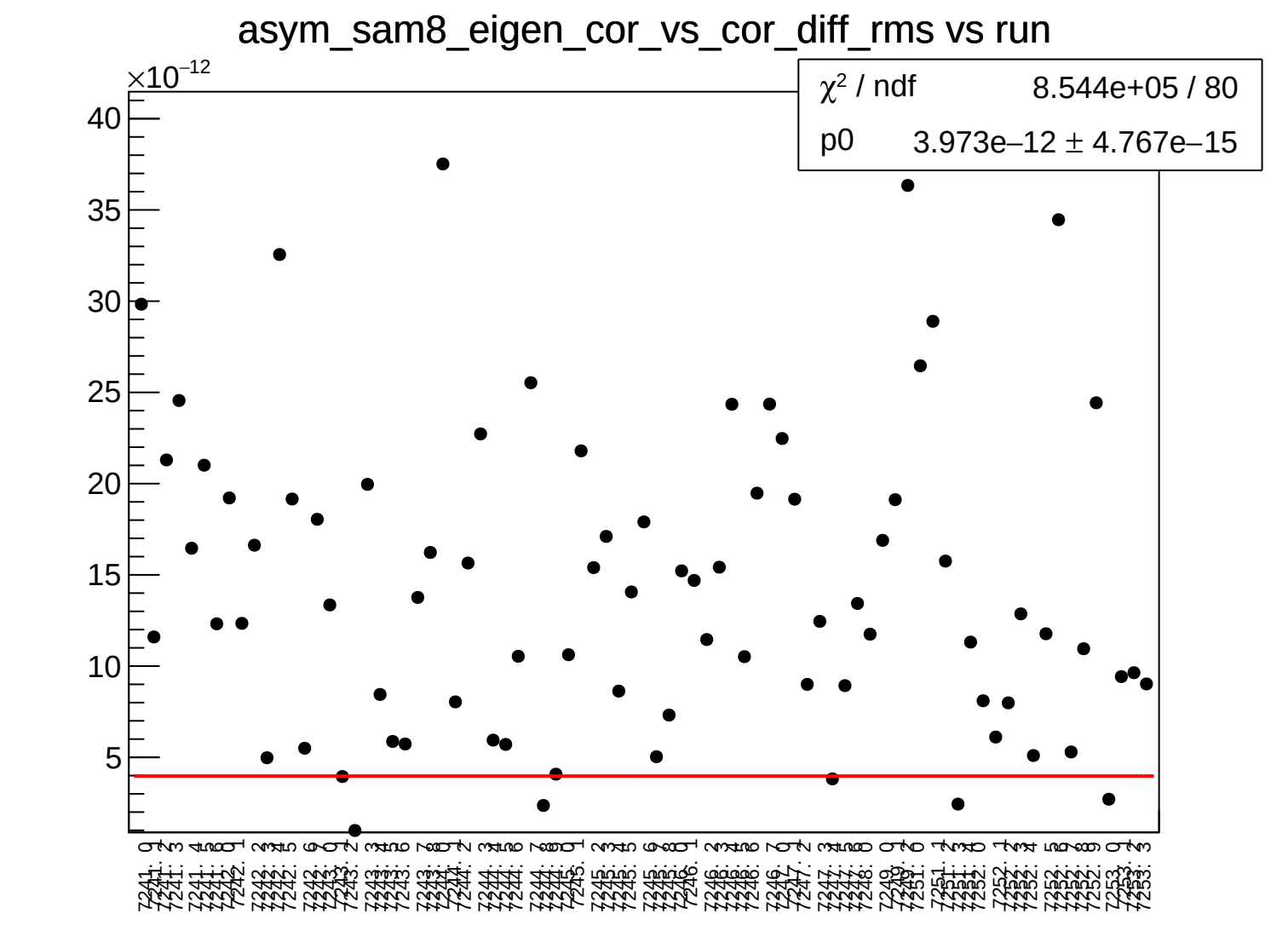

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.16 / 80
p0 −0.005182 ± 0.02749
pull
Entries 81
Mean 176.7
Std Dev 0

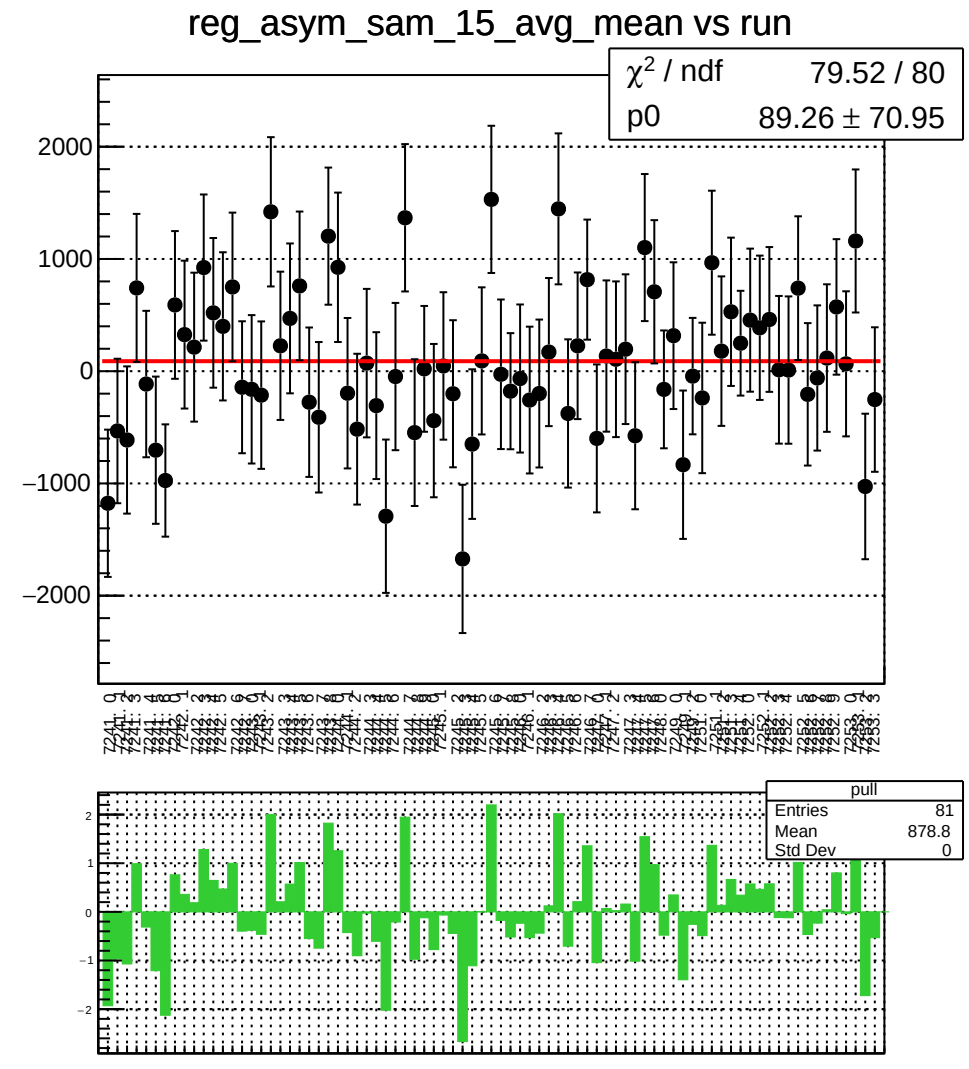

pull1D
Entries 81
Mean −0.01514
Std Dev 1.007

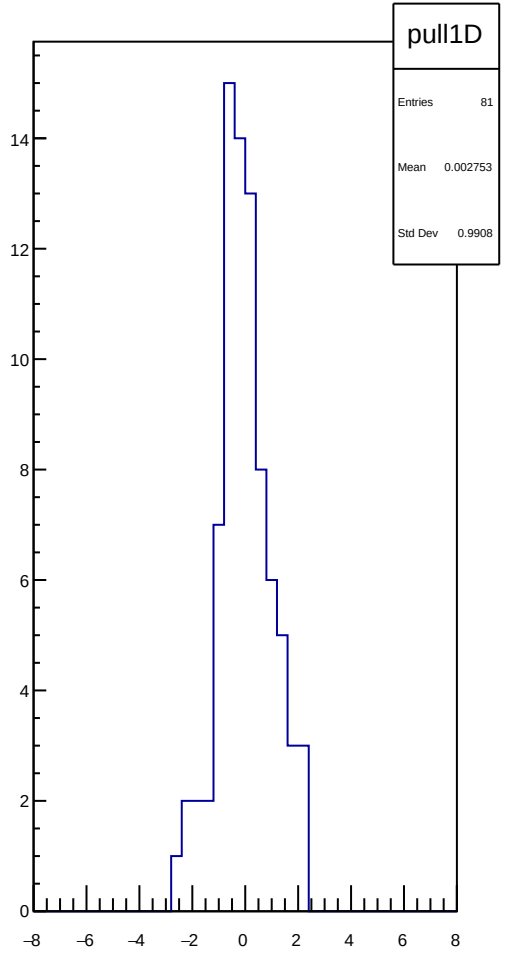

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2068 / 80
p0 24.17 ± 0.01944
27
26
25
24
23
22

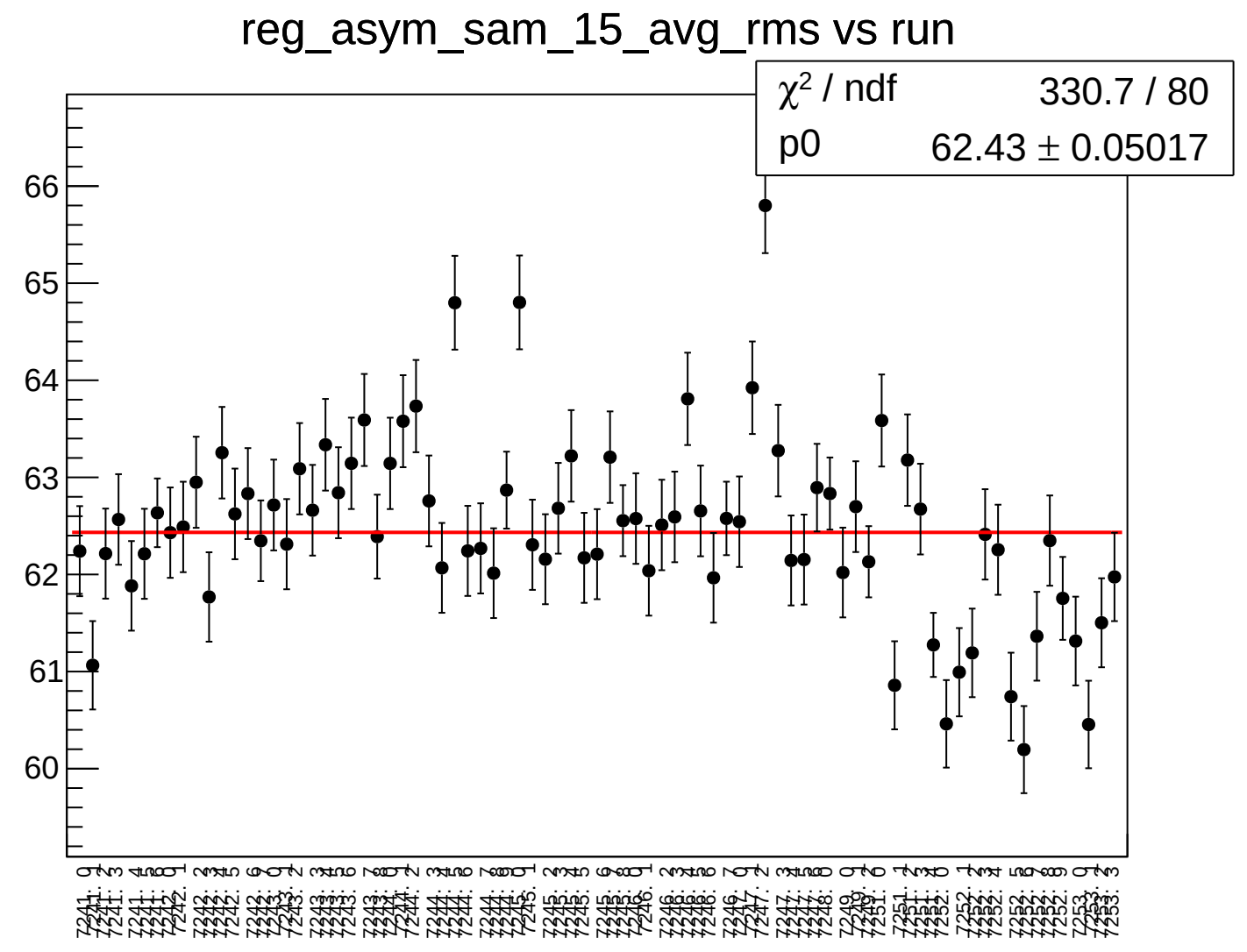

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.74 / 80
p0 7.285e−15 ± 6.741e−15
pull
Entries 81
Mean 77.82
Std Dev 69.76

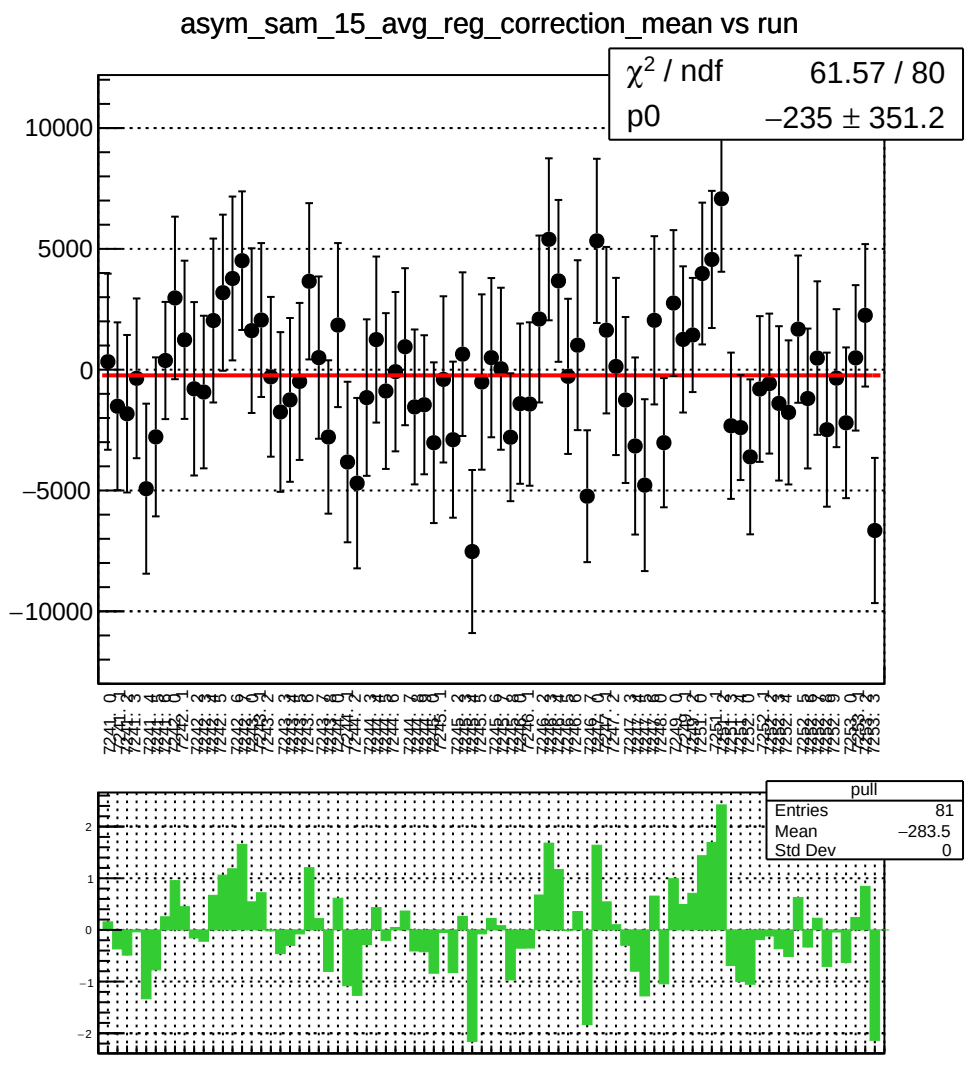

pull1D
Entries 81
Mean 0.007751
Std Dev 1.023

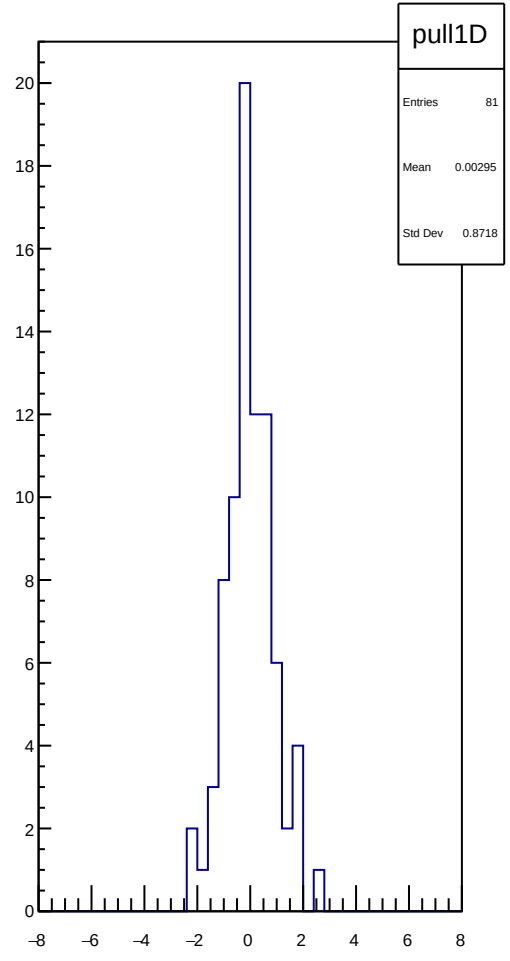

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
40
35
30
25
20
15
10
5
χ² / ndf 8.544e+05 / 80
p0 3.973e−12 ± 4.767e−15

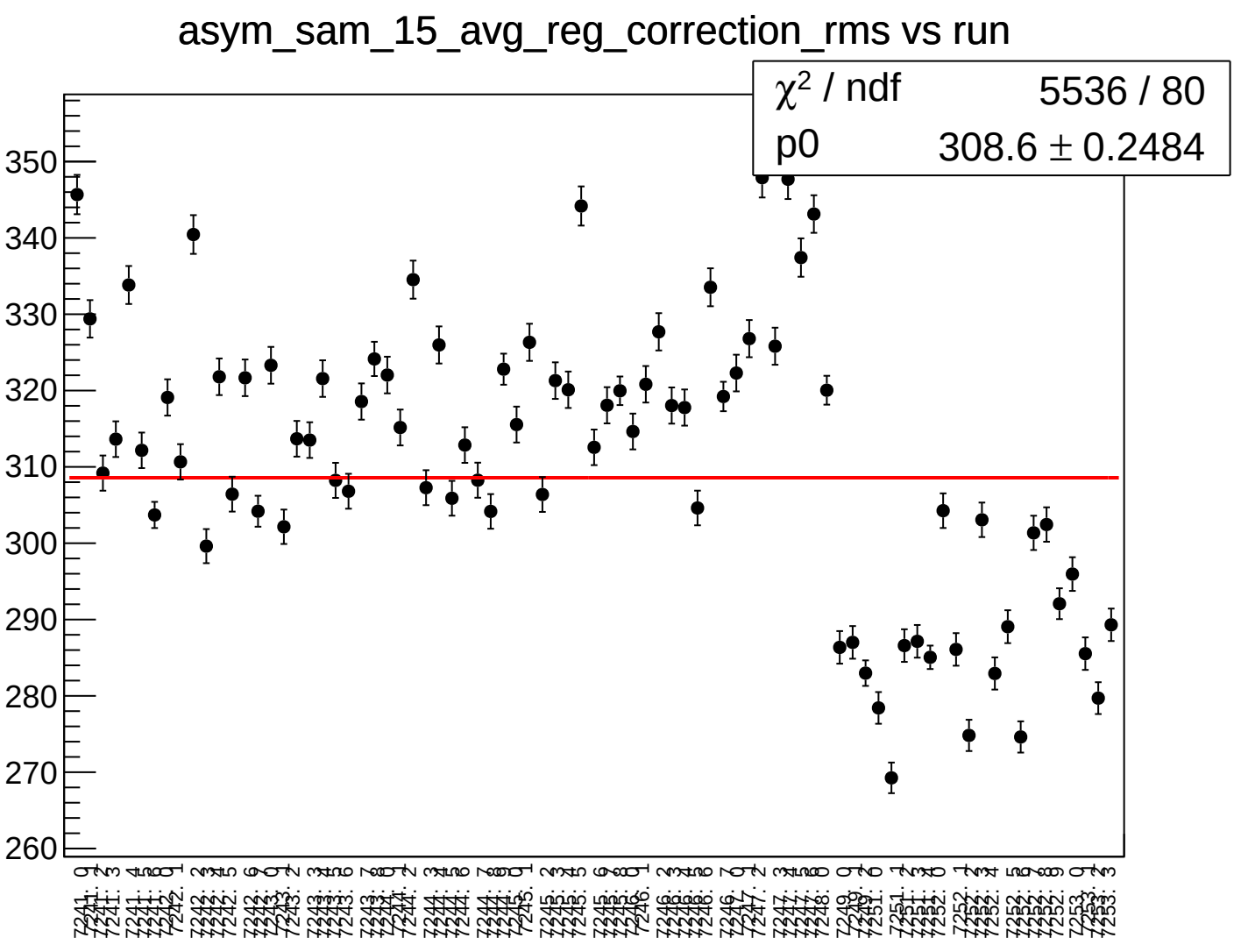

reg_asym_sam_15_avg_mean vs run
χ² / ndf 79.52 / 80
p0 89.26 ± 70.95
2000
1000
0
−1000
−2000
pull
Entries 81
Mean 878.8
Std Dev 0
2
1
0
−1

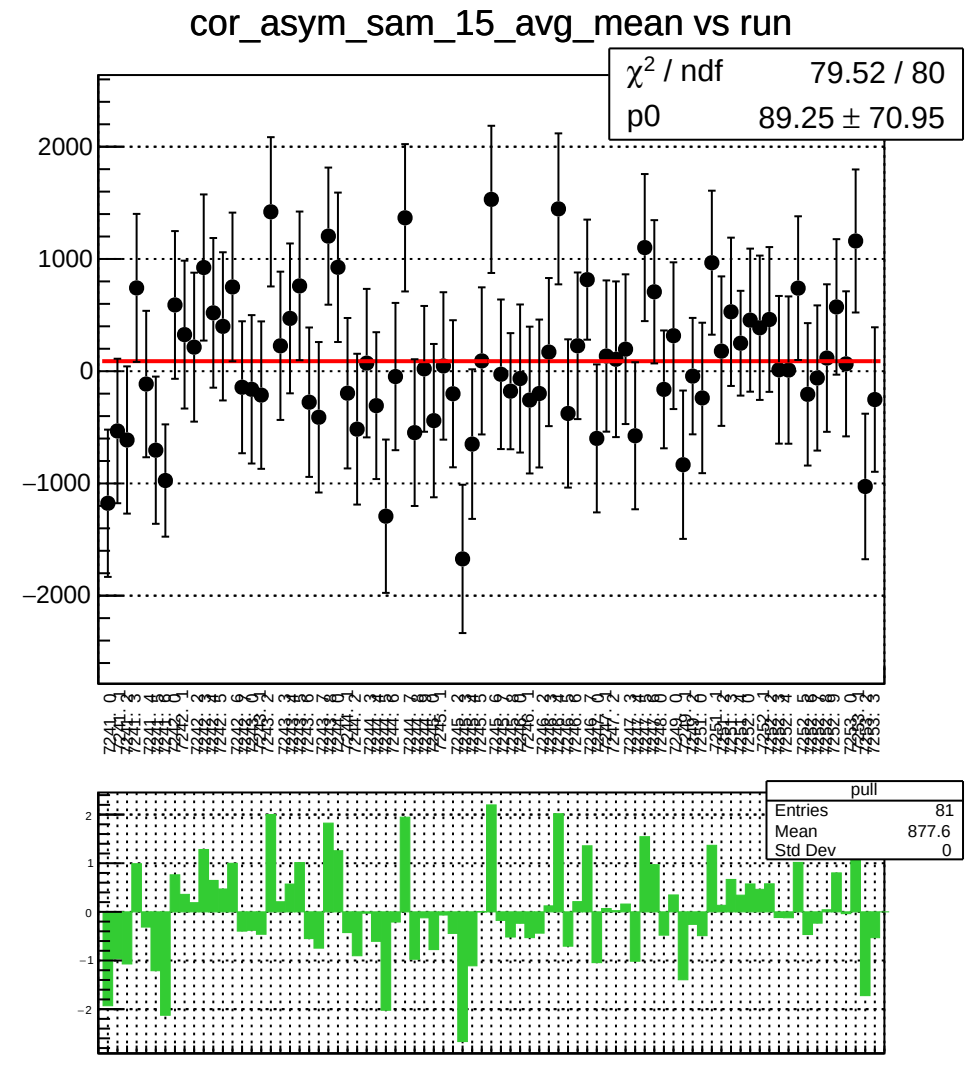

pull1D
Entries 81
Mean 0.002753
Std Dev 0.9908
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

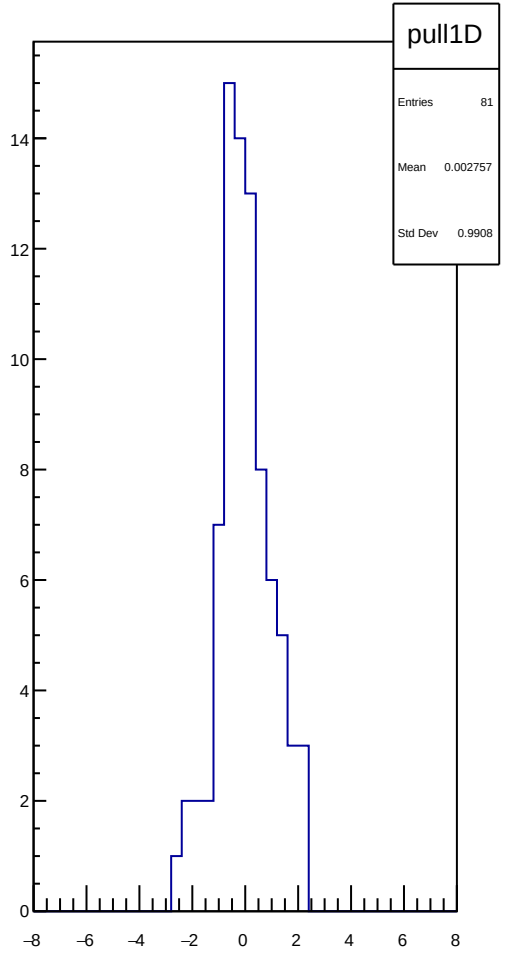

reg_asym_sam_15_avg_rms vs run
χ^2 / ndf 330.7 / 80
p0 62.43 ± 0.05017
66
65
64
63
62
61
60

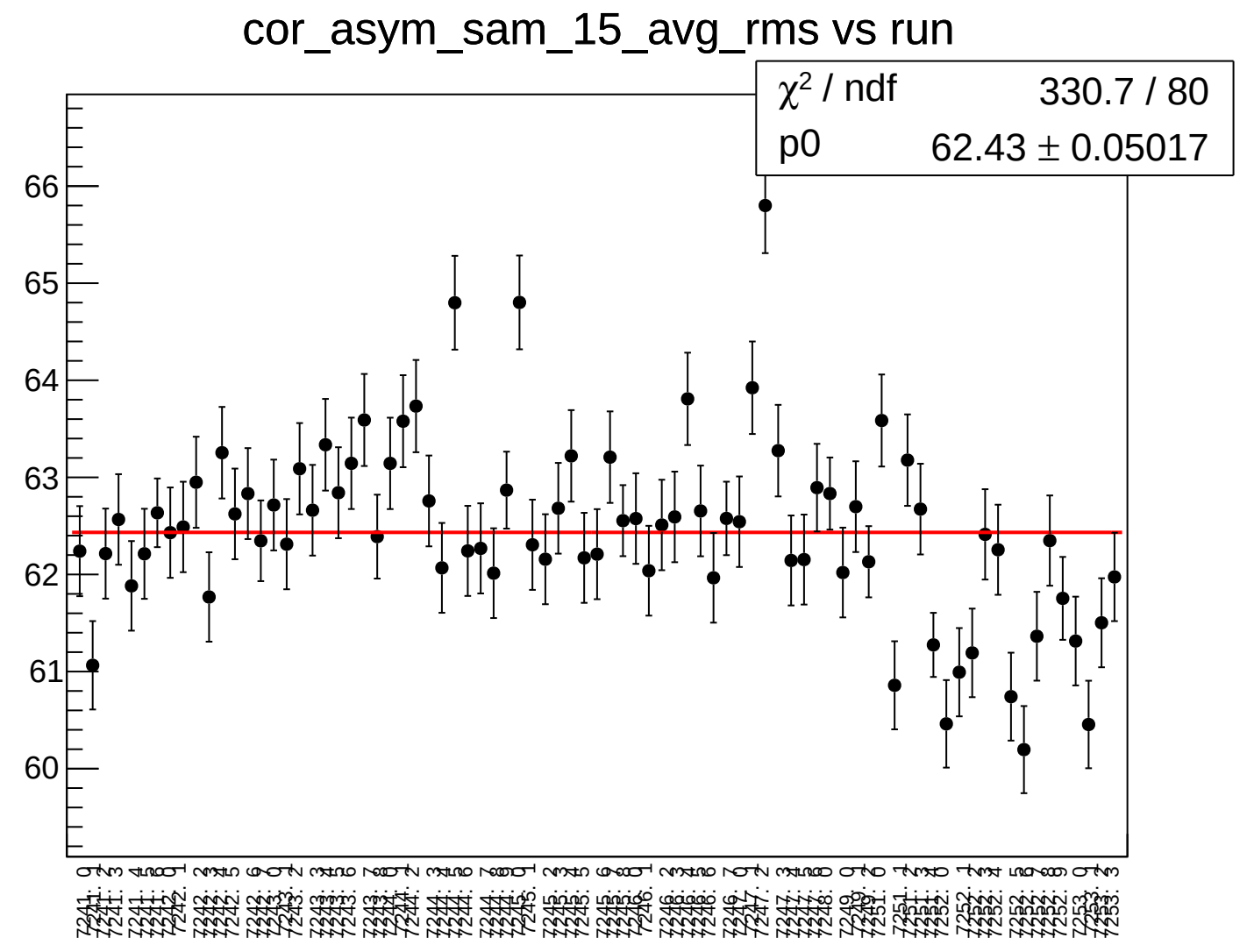

asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 61.57 / 80
p0 −235 ± 351.2
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −283.5
Std Dev 0
2
1
0
−1
−2

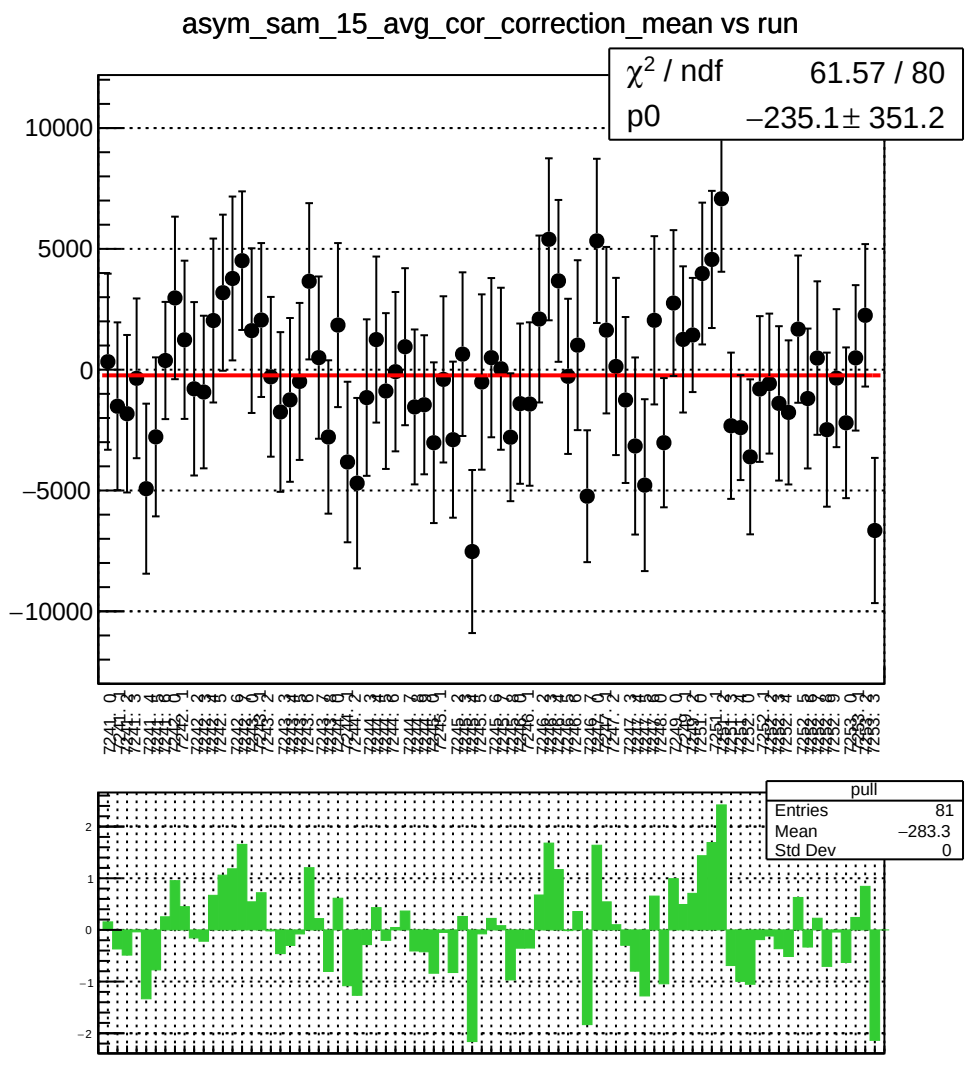

pull1D
Entries 81
Mean 0.00295
Std Dev 0.8718
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

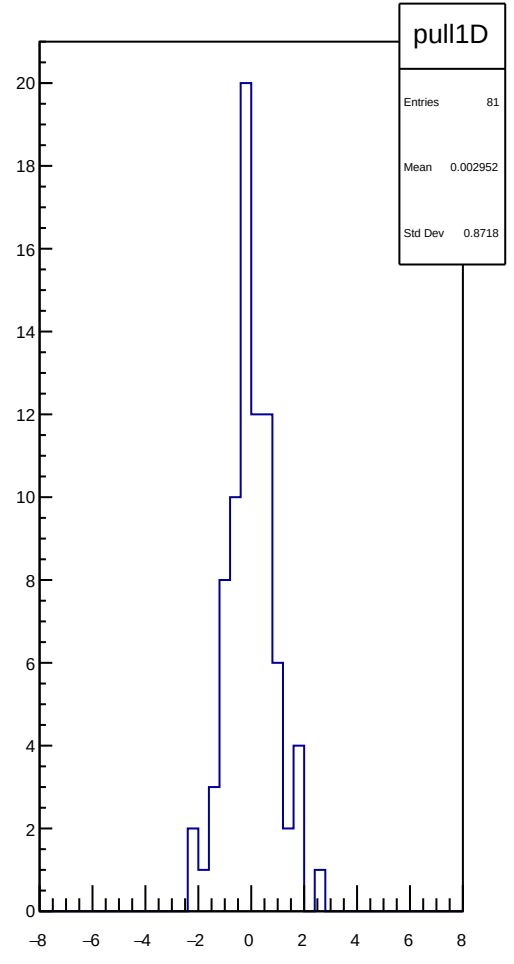

asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 5536 / 80
p0 308.6 ± 0.2484
350
340
330
320
310
300
290
280
270
260

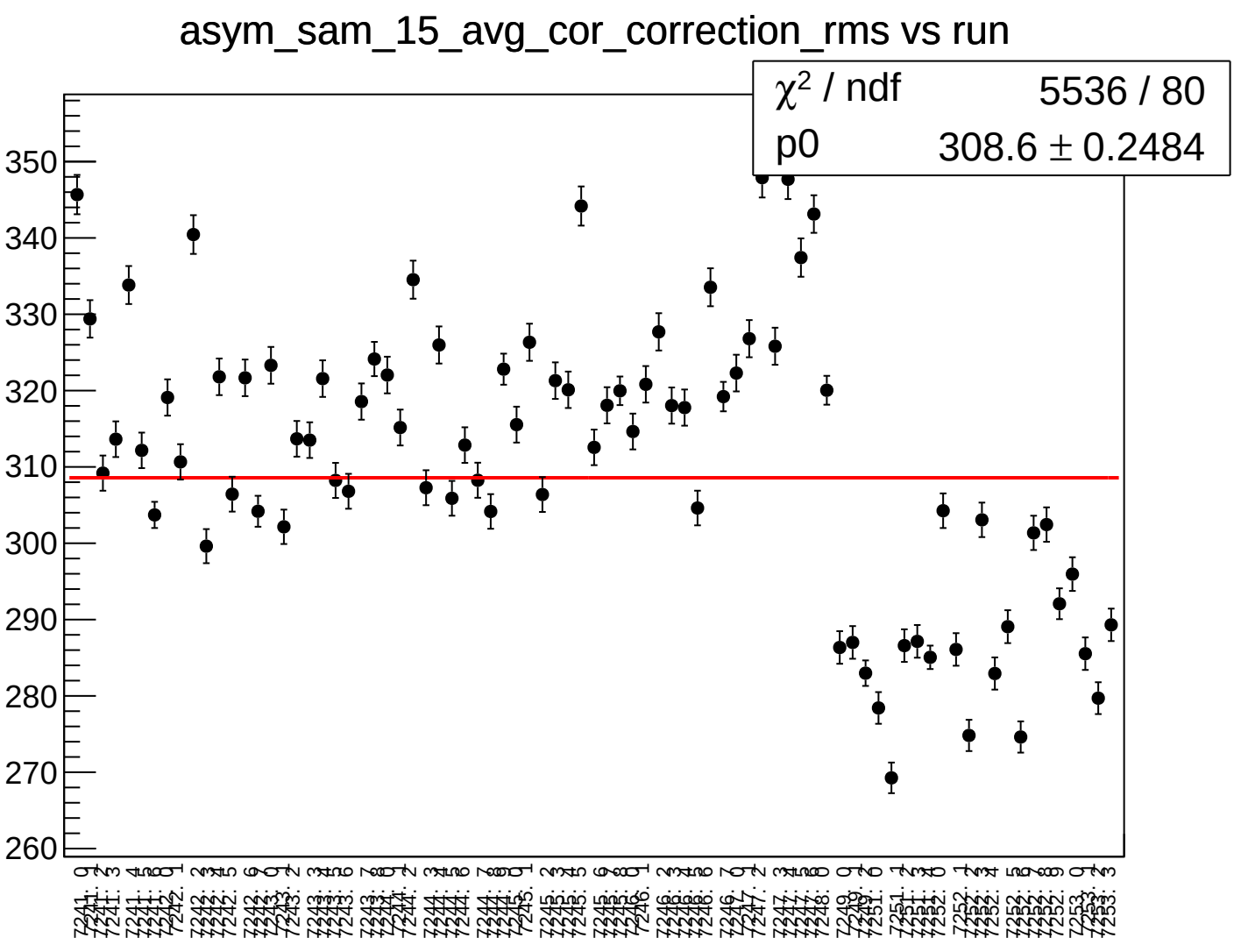

cor_asym_sam_15_avg_mean vs run
χ² / ndf 79.52 / 80
p0 89.25 ± 70.95
2000
1000
0
−1000
−2000
pull
Entries 81
Mean 877.6
Std Dev 0
2
1
0
−1

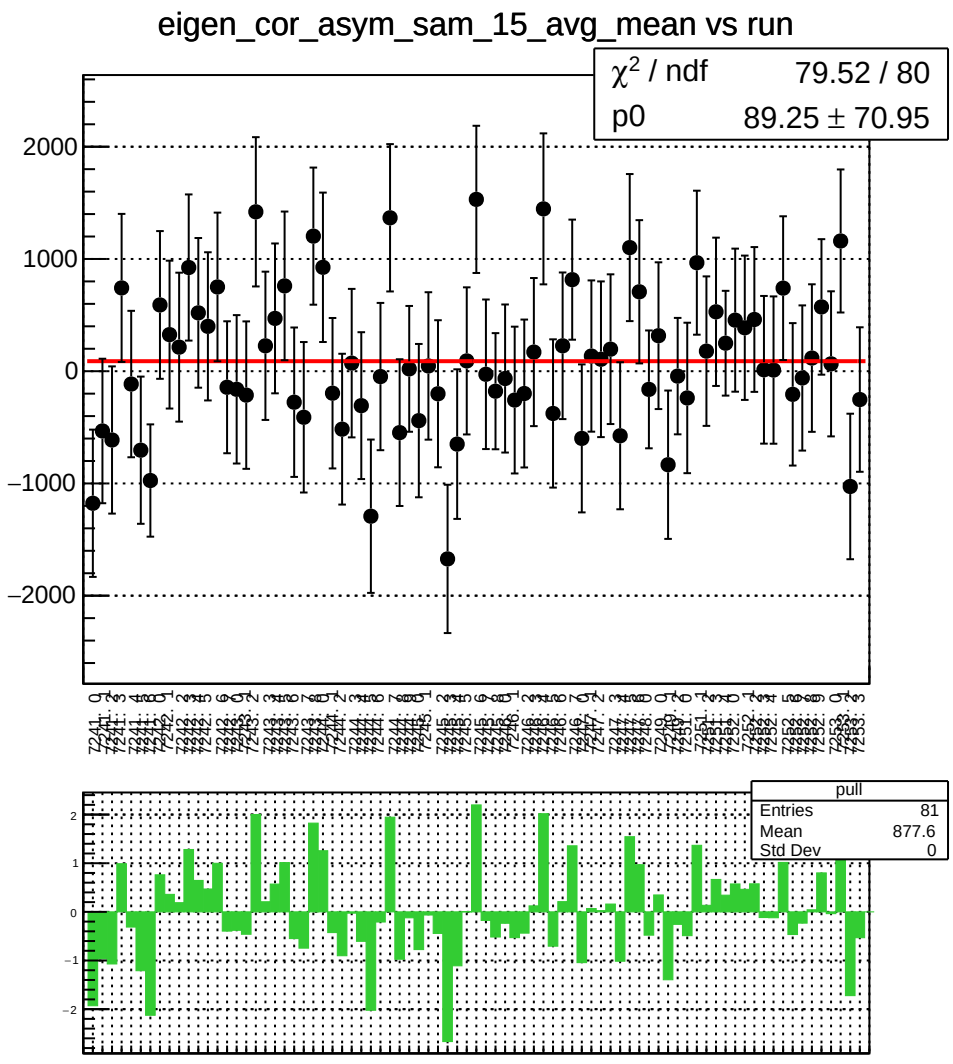

pull1D
Entries 81
Mean 0.002757
Std Dev 0.9908
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

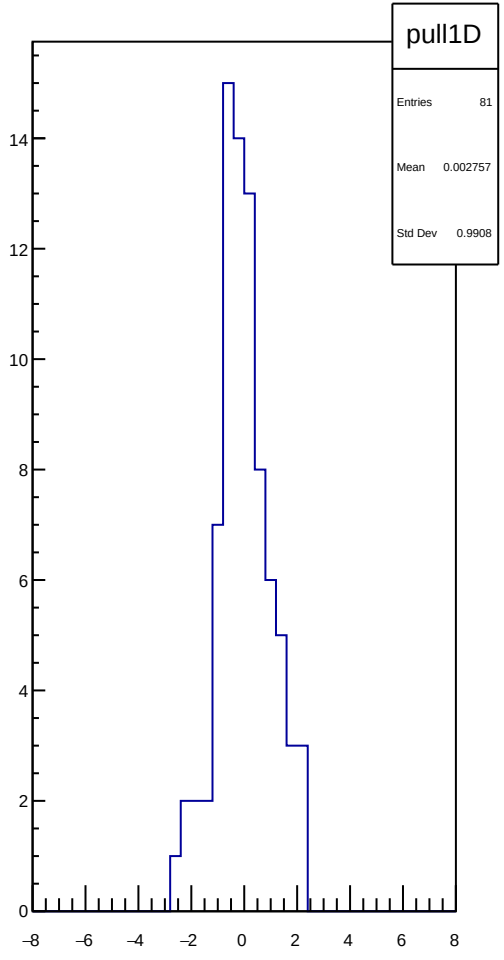

cor_asym_sam_15_avg_rms vs run
χ^2 / ndf 330.7 / 80
p0 62.43 ± 0.05017
66
65
64
63
62
61
60

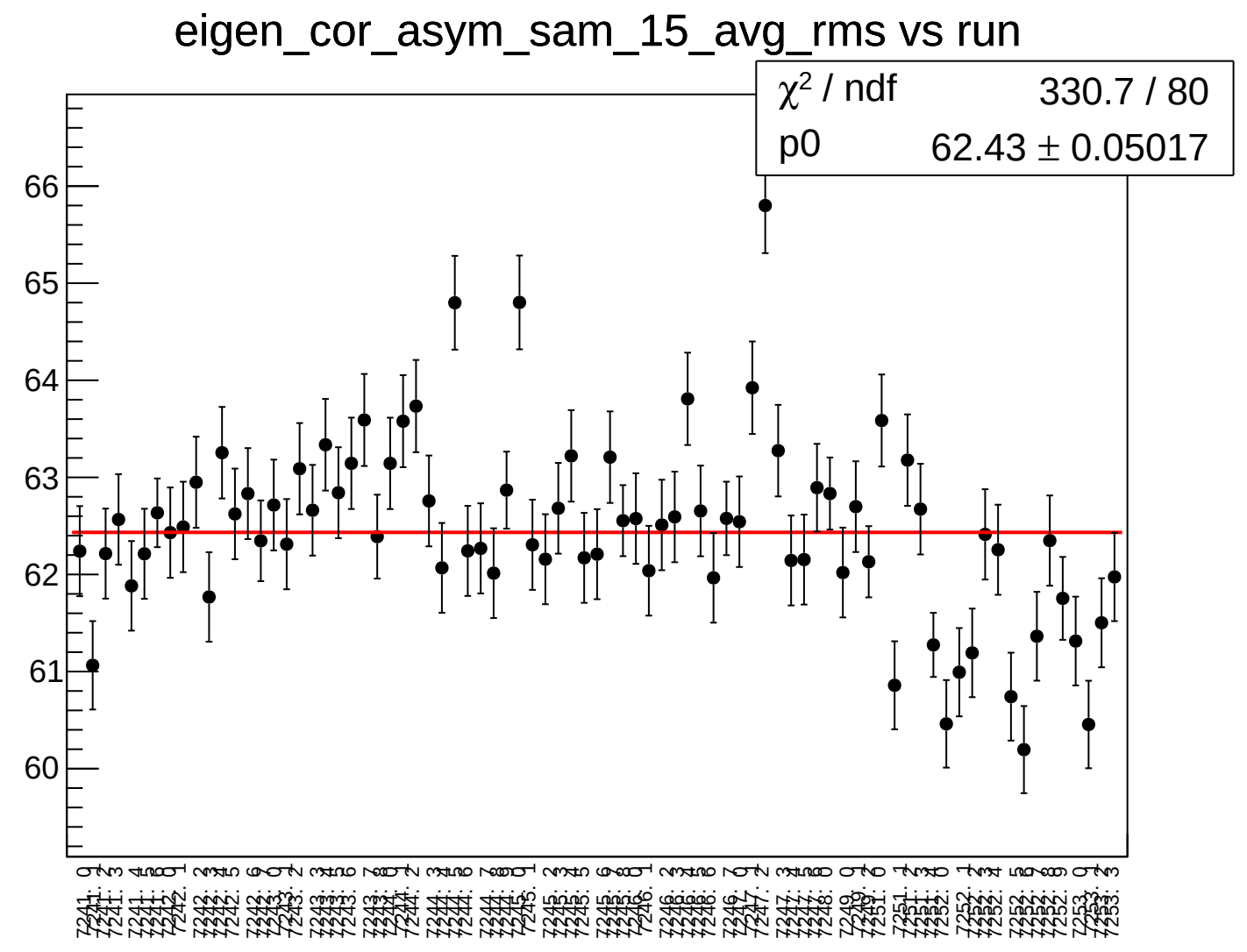

asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 61.57 / 80
p0 −235.1± 351.2
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −283.3
Std Dev 0
2
1
0
−1
−2

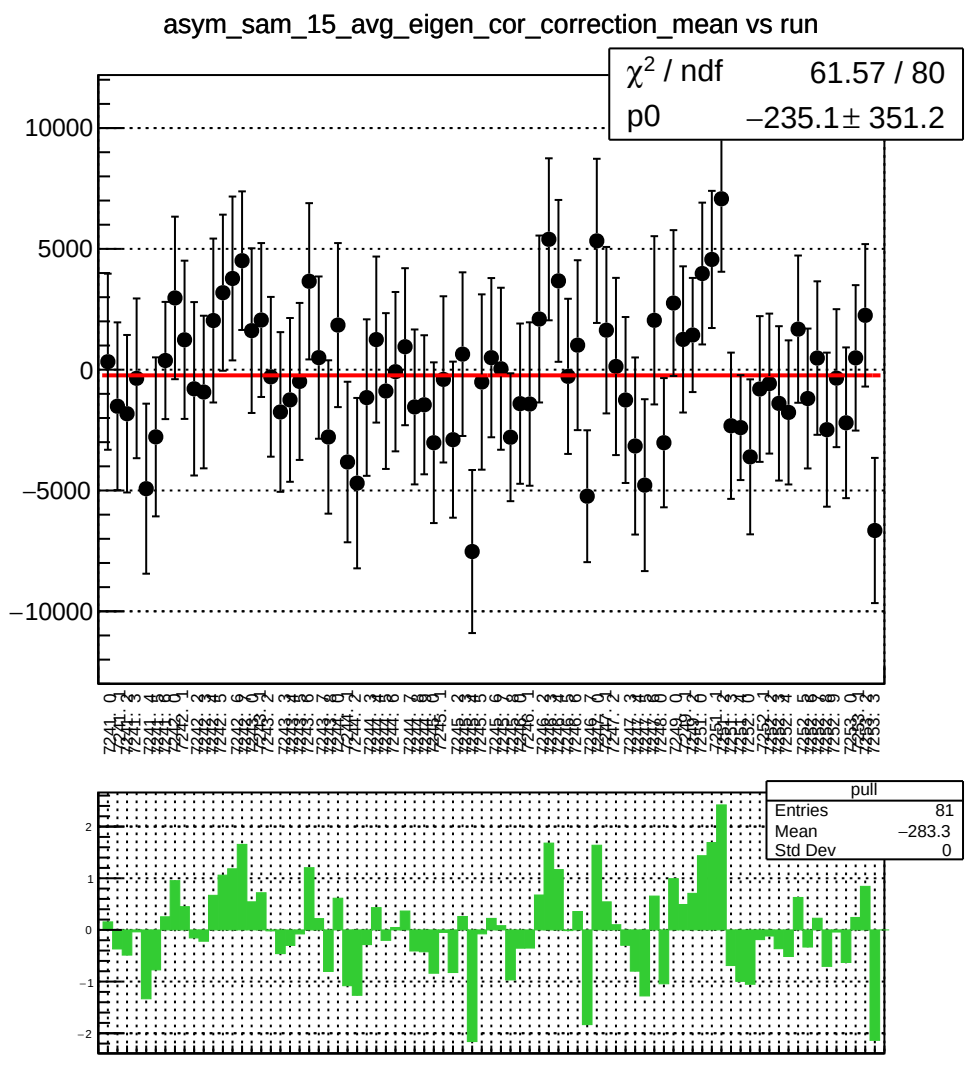

pull1D
Entries 81
Mean 0.002952
Std Dev 0.8718
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

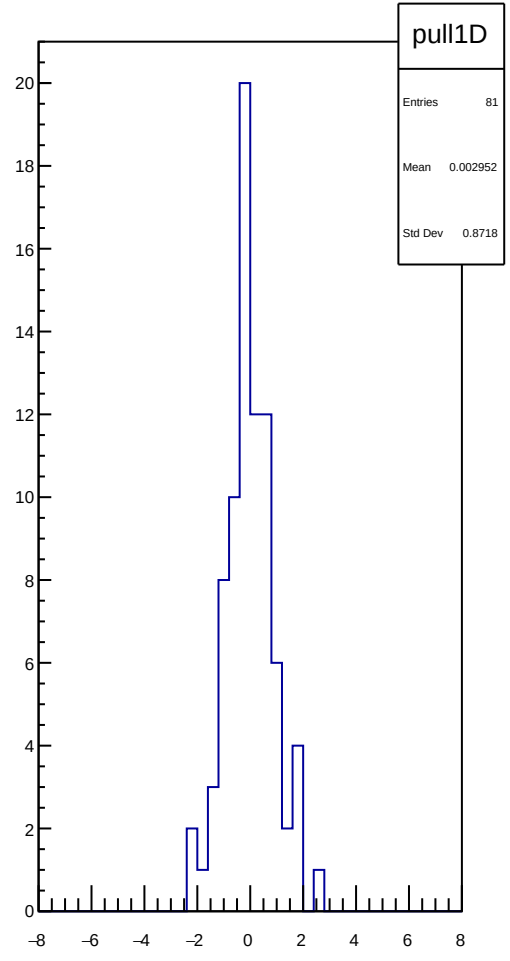

asym_sam_15_avg_cor_correction_rms vs run
χ² / ndf 5536 / 80
p0 308.6 ± 0.2484
350
340
330
320
310
300
290
280
270
260

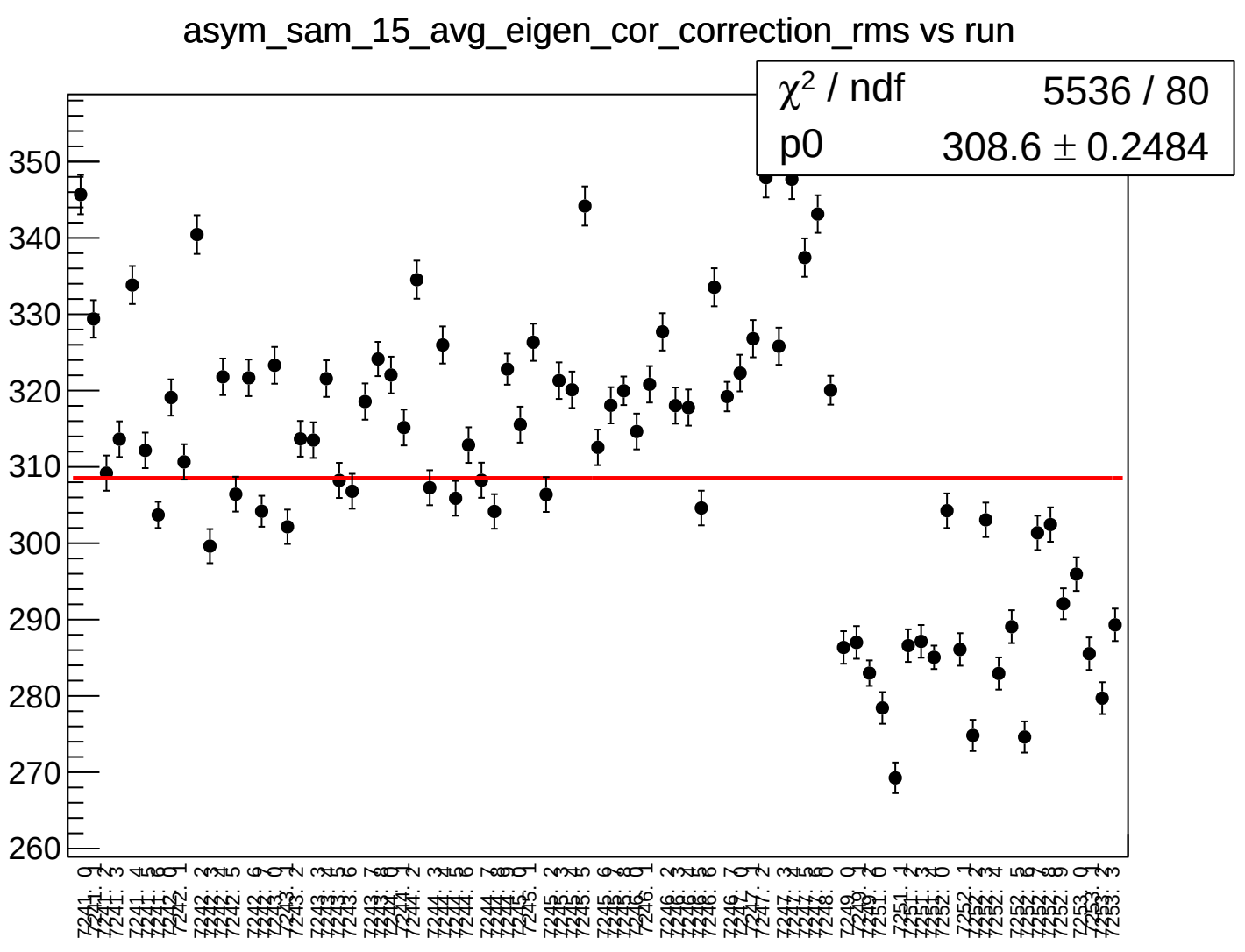

eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 79.52 / 80
p0 89.25 ± 70.95
2000
1000
0
−1000
−2000
pull
Entries 81
Mean 877.6
Std Dev 0
2
1
0
−1
−2

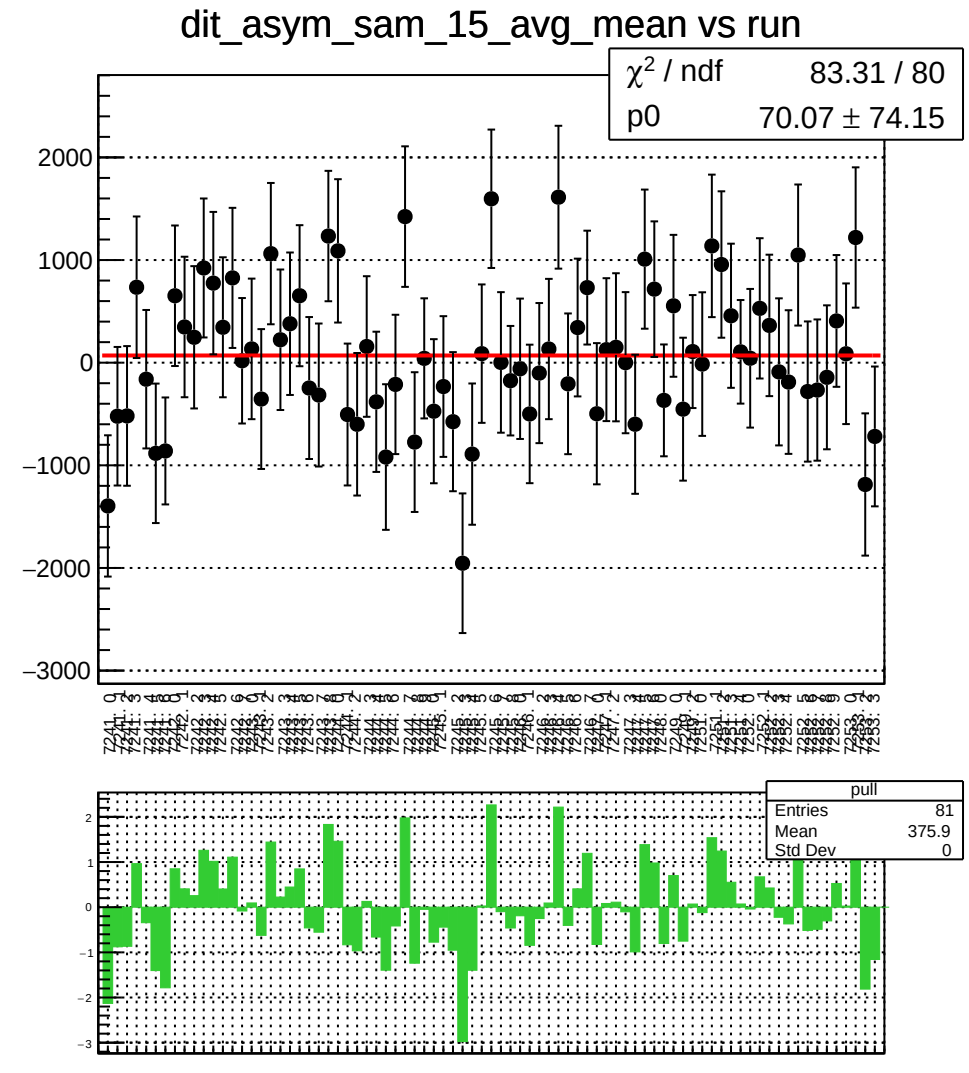

pull1D
Entries 81
Mean 0.002757
Std Dev 0.9908
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

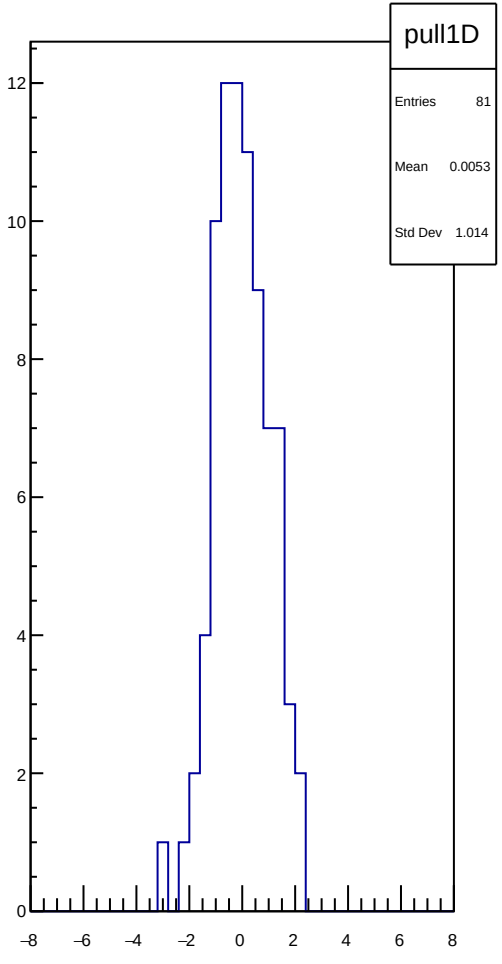

eigen_cor_asym_sam_15_avg_rms vs run
χ² / ndf 330.7 / 80
p0 62.43 ± 0.05017
66
65
64
63
62
61
60

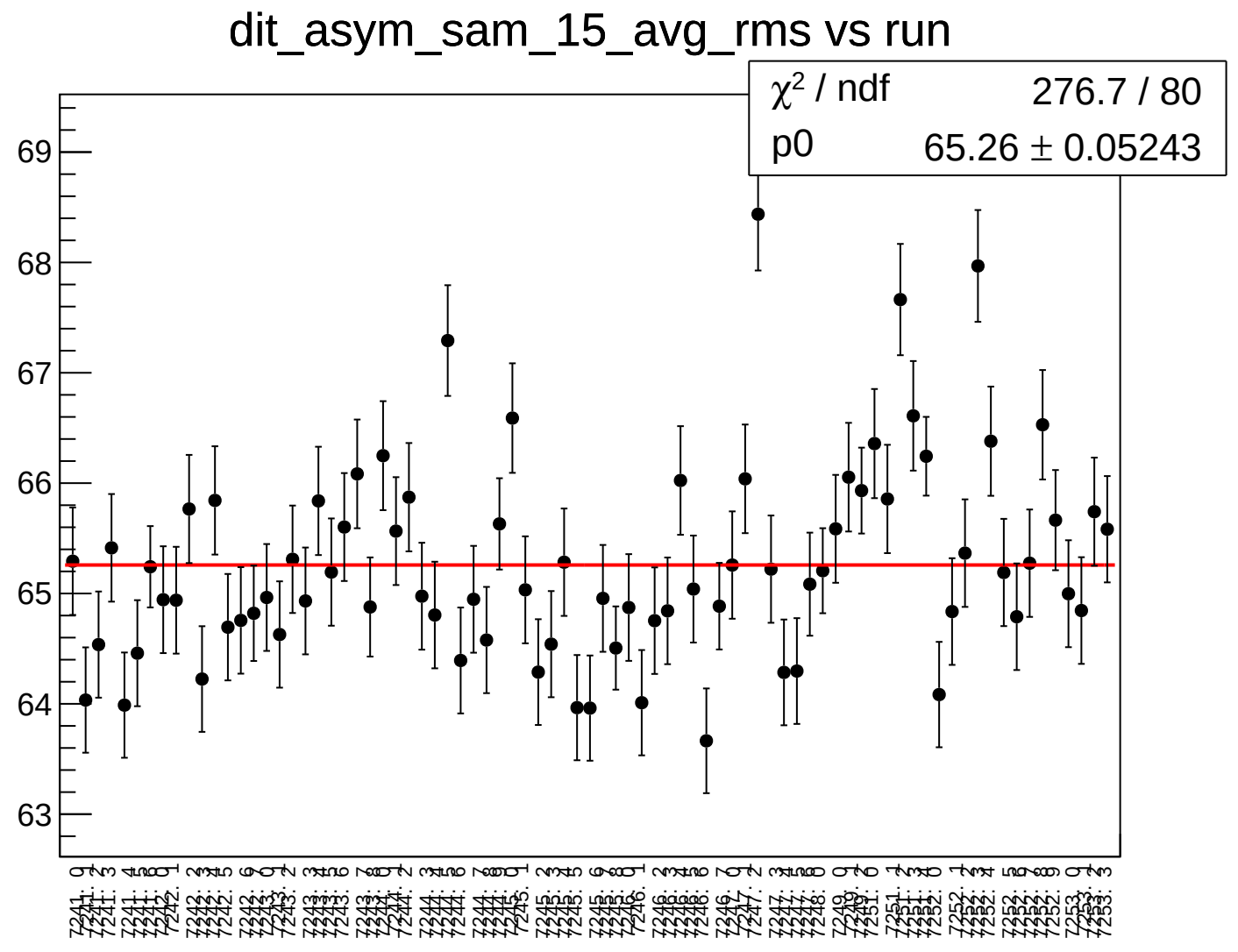

asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 61.57 / 80
p0 −235.1± 351.2
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −283.3
Std Dev 0
2
1
0
−1
−2

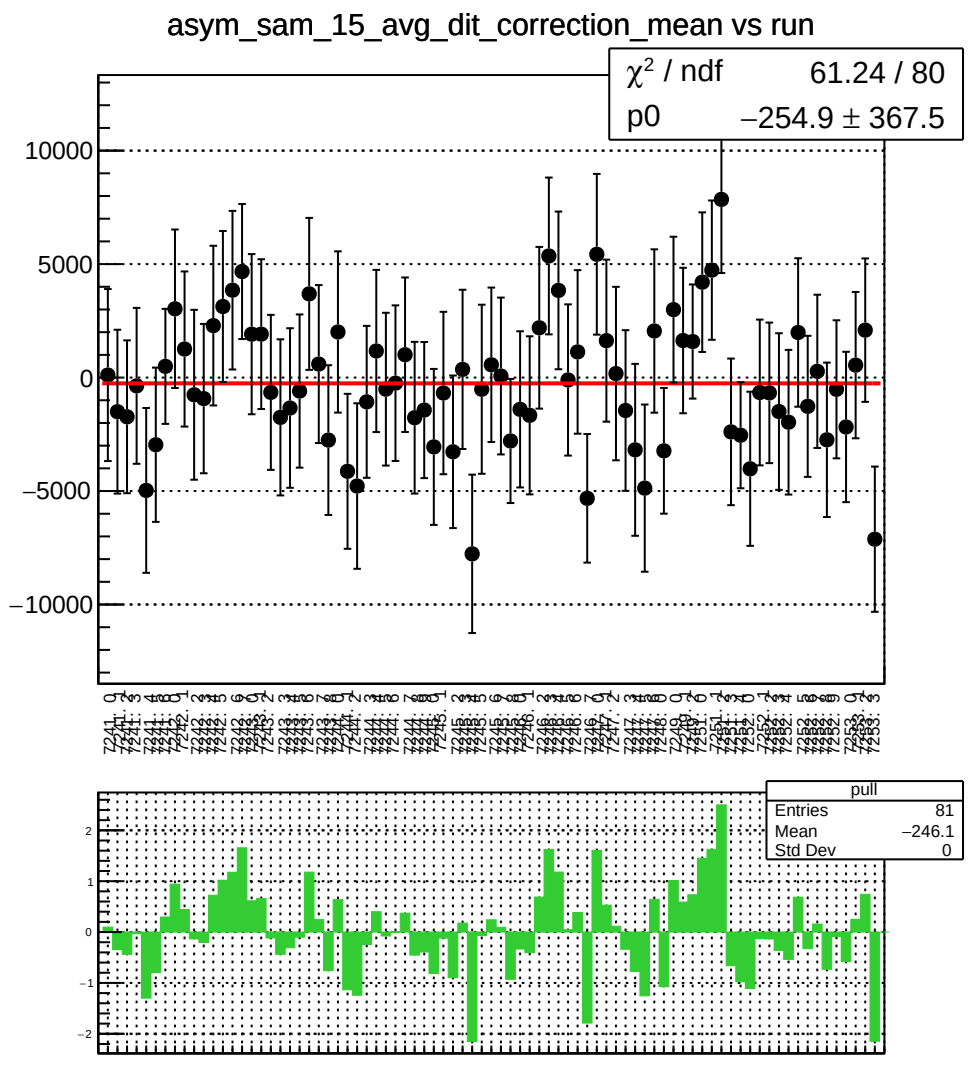

pull1D
Entries 81
Mean 0.002952
Std Dev 0.8718
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

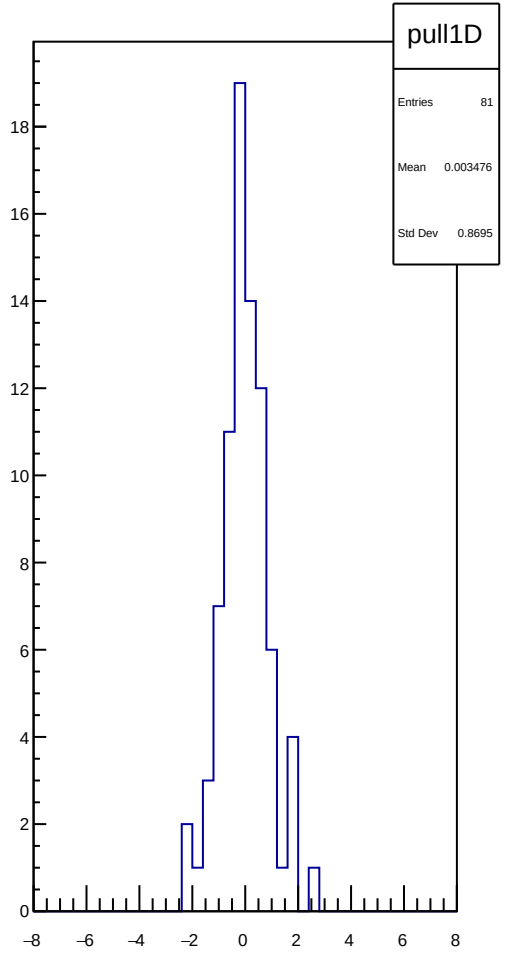

asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 5536 / 80
p0 308.6 ± 0.2484
350
340
330
320
310
300
290
280
270
260

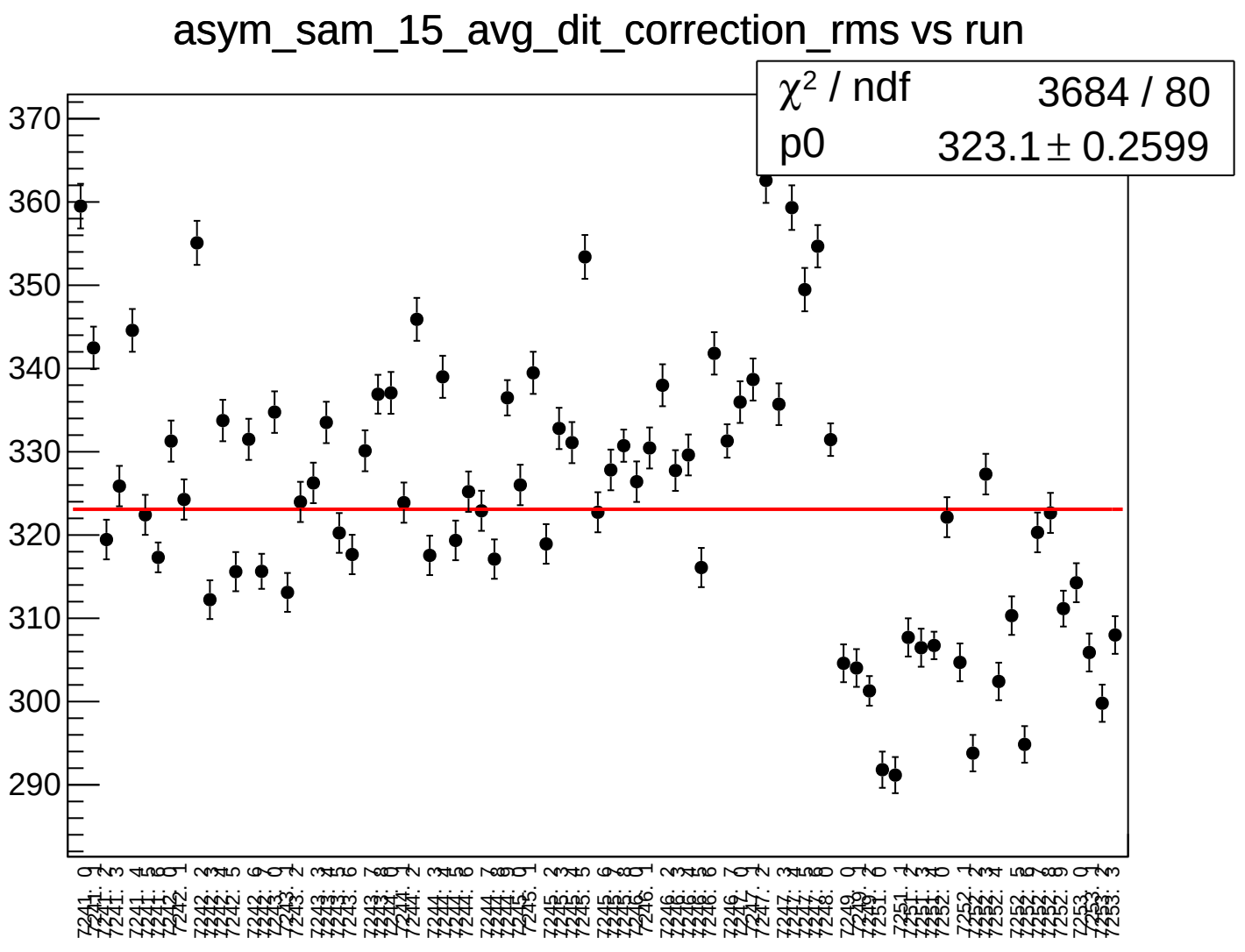

dit_asym_sam_15_avg_mean vs run
χ² / ndf 83.31 / 80
p0 70.07 ± 74.15
pull
Entries 81
Mean 375.9
Std Dev 0

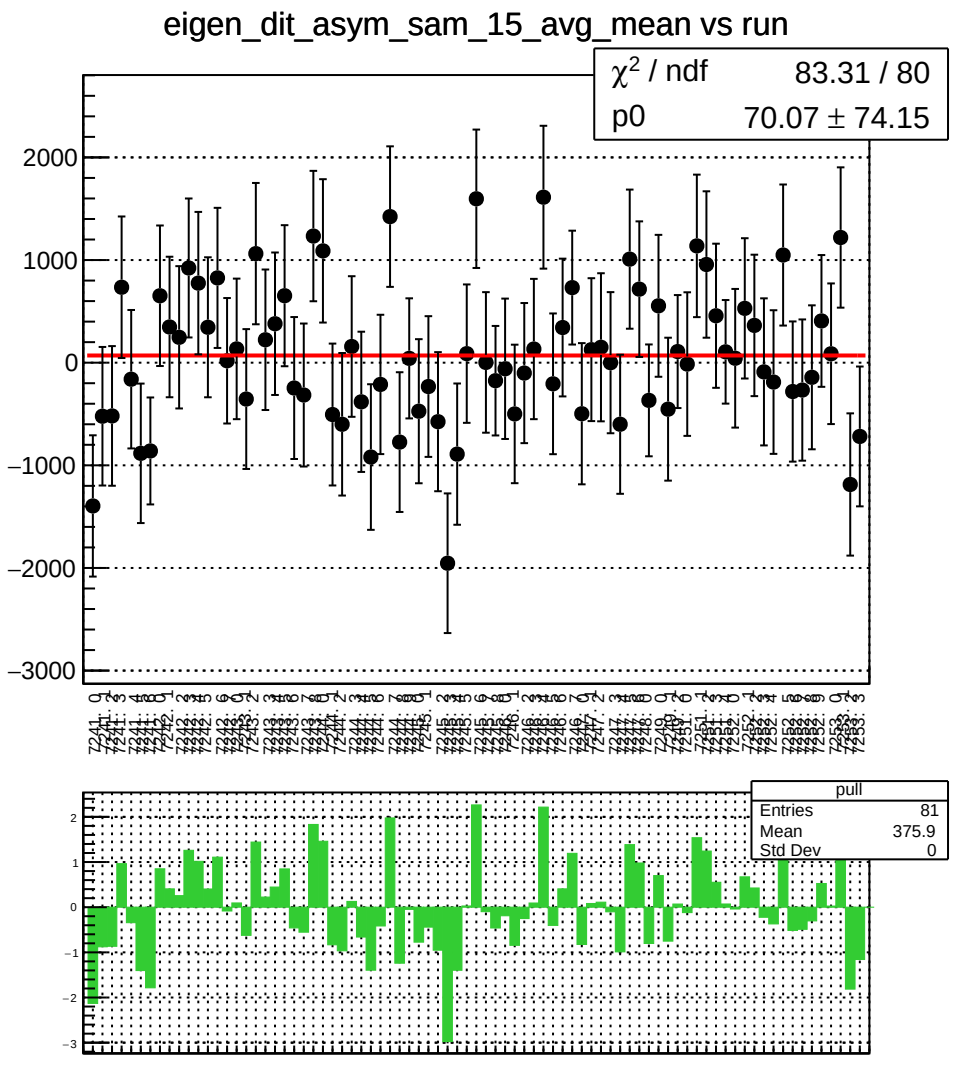

pull1D
Entries 81
Mean 0.0053
Std Dev 1.014

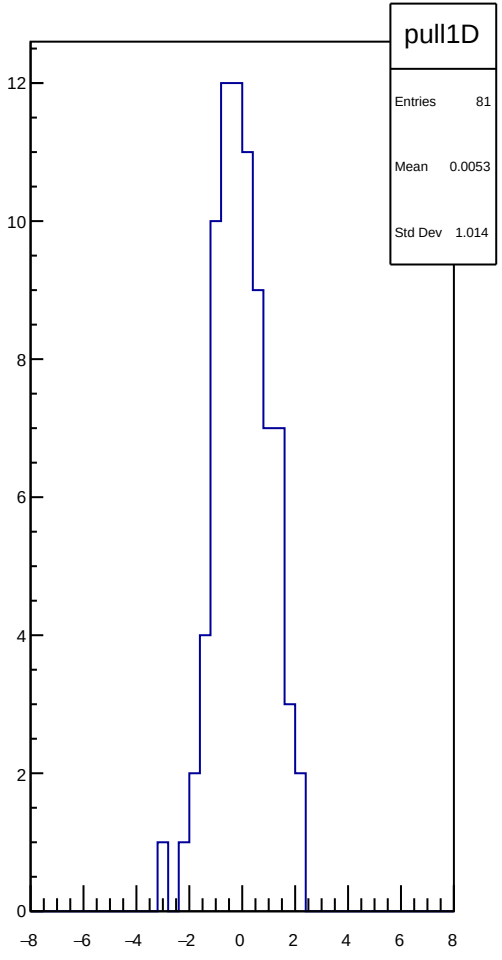

dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 276.7 / 80
p0 65.26 ± 0.05243
69
68
67
66
65
64
63

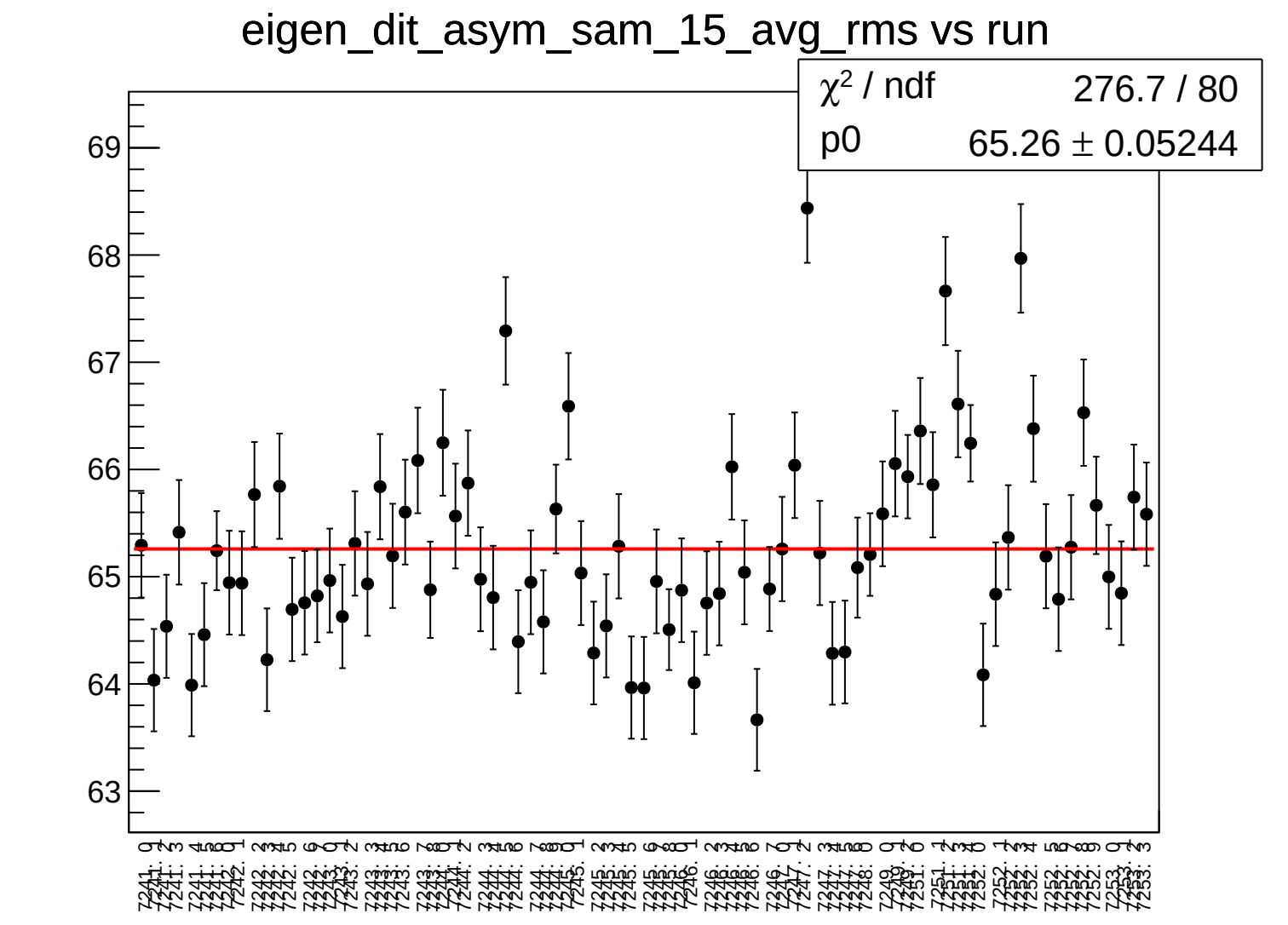

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 61.24 / 80
p0 −254.9 ± 367.5
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −246.1
Std Dev 0
2
1
0
−1
−2

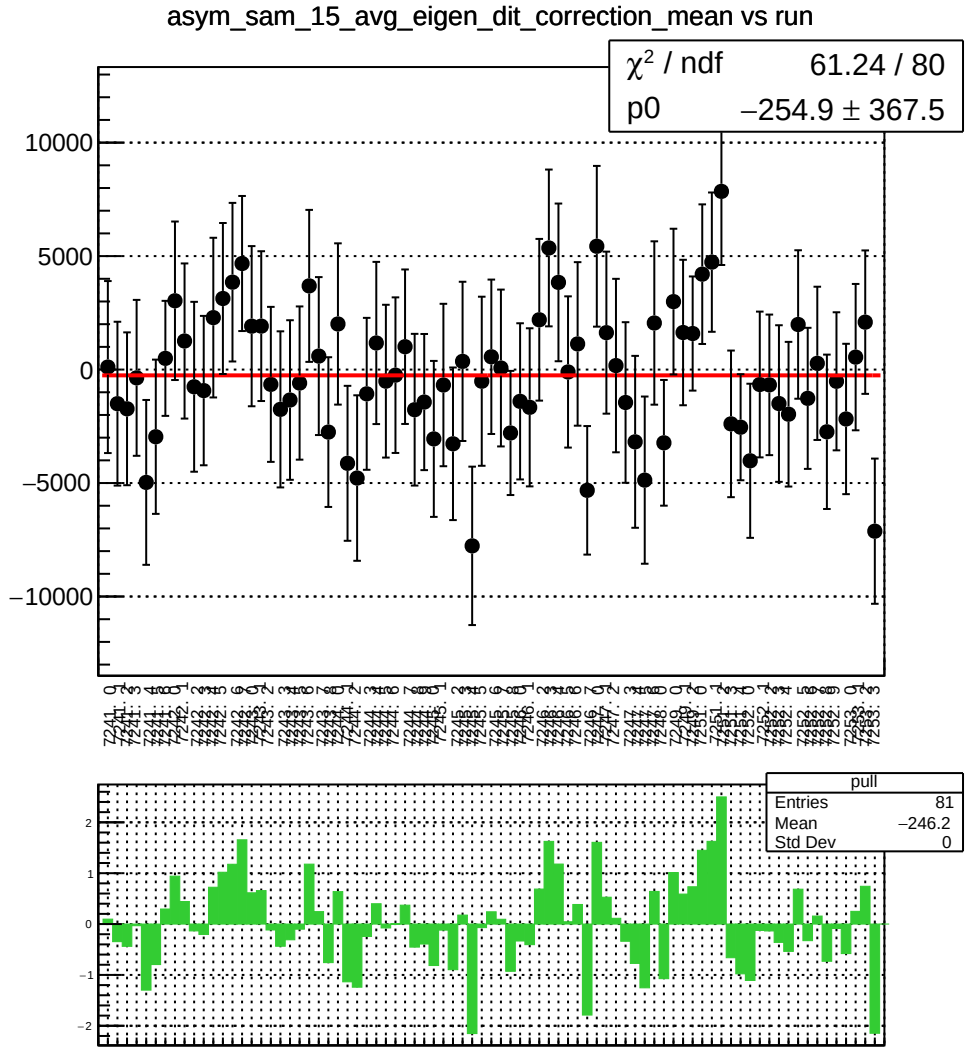

pull1D
Entries 81
Mean 0.003476
Std Dev 0.8695
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

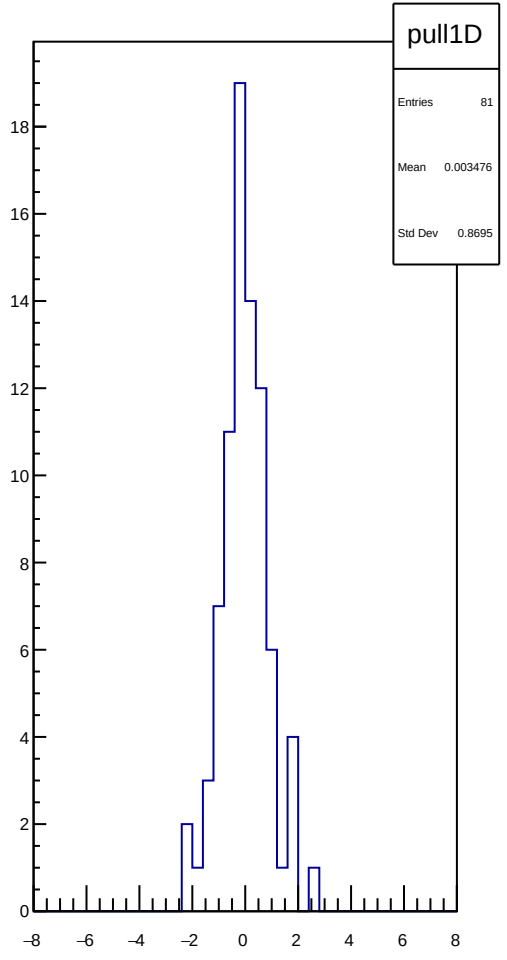

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 3684 / 80
p0 323.1 ± 0.2599
370
360
350
340
330
320
310
300
290

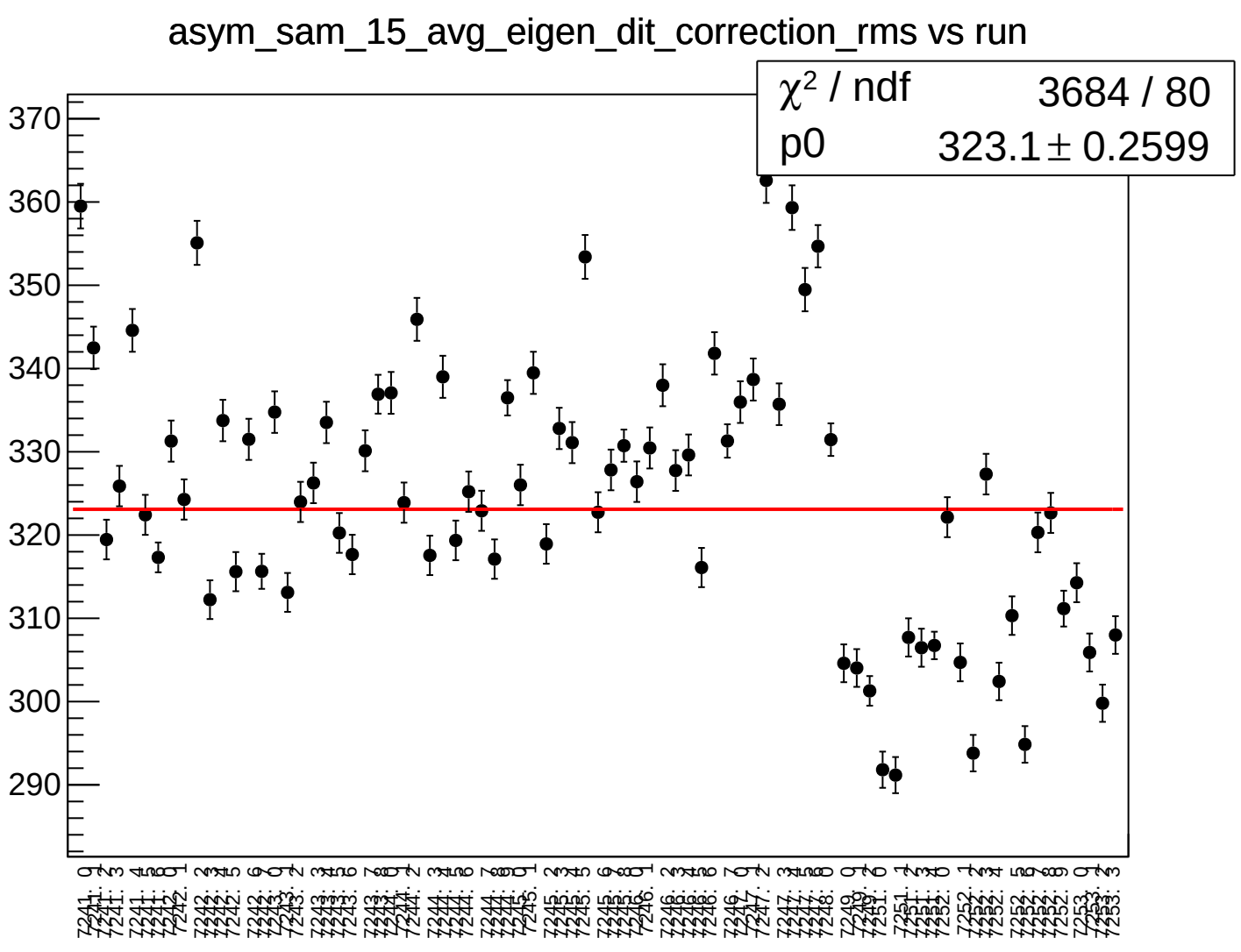

eigen_dit_asym_sam_15_avg_mean vs run
χ^2 / ndf 83.31 / 80
p0 70.07 ± 74.15
pull
Entries 81
Mean 375.9
Std Dev 0

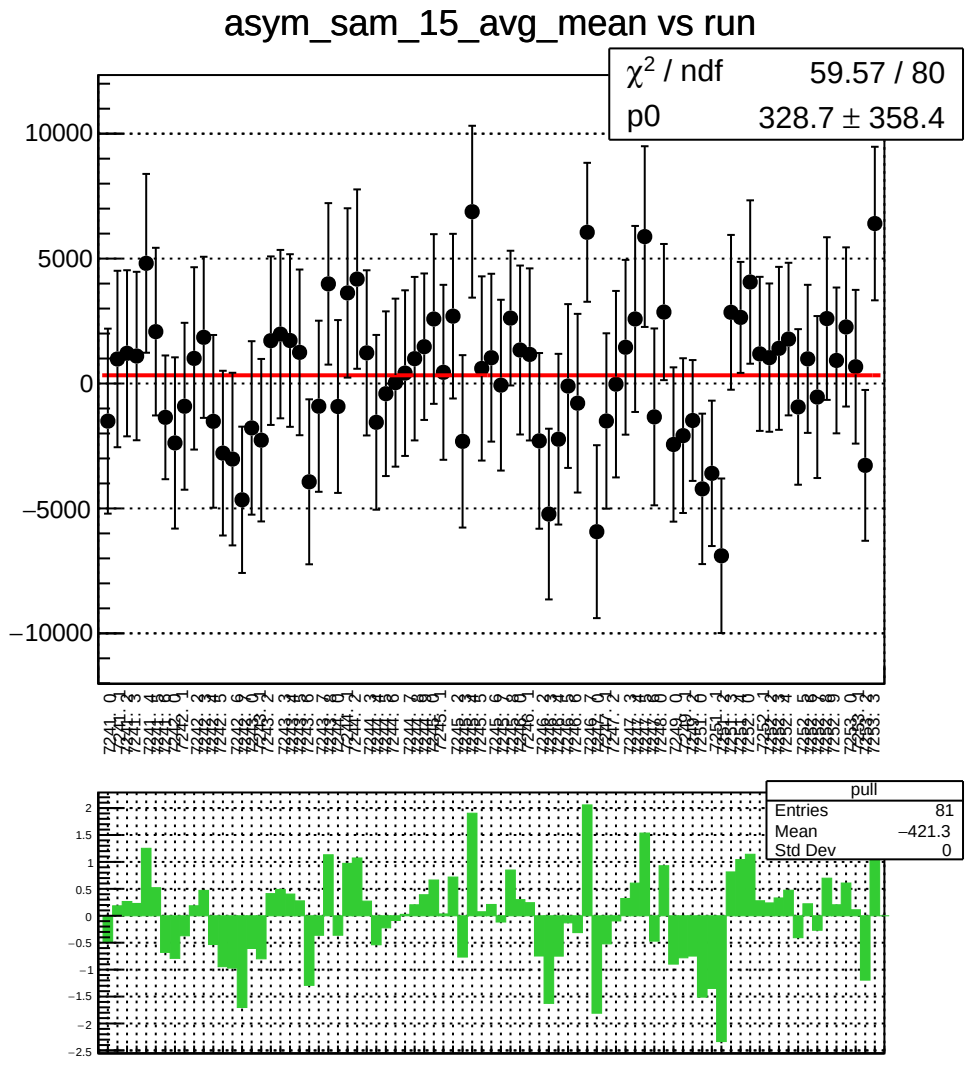

pull1D
Entries 81
Mean 0.0053
Std Dev 1.014

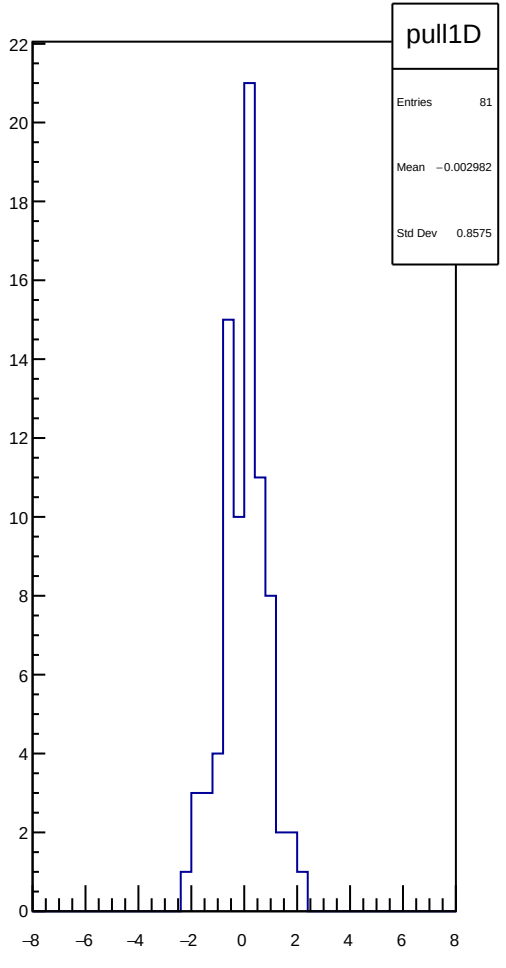

eigen_dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 276.7 / 80
p0 65.26 ± 0.05244
69
68
67
66
65
64
63

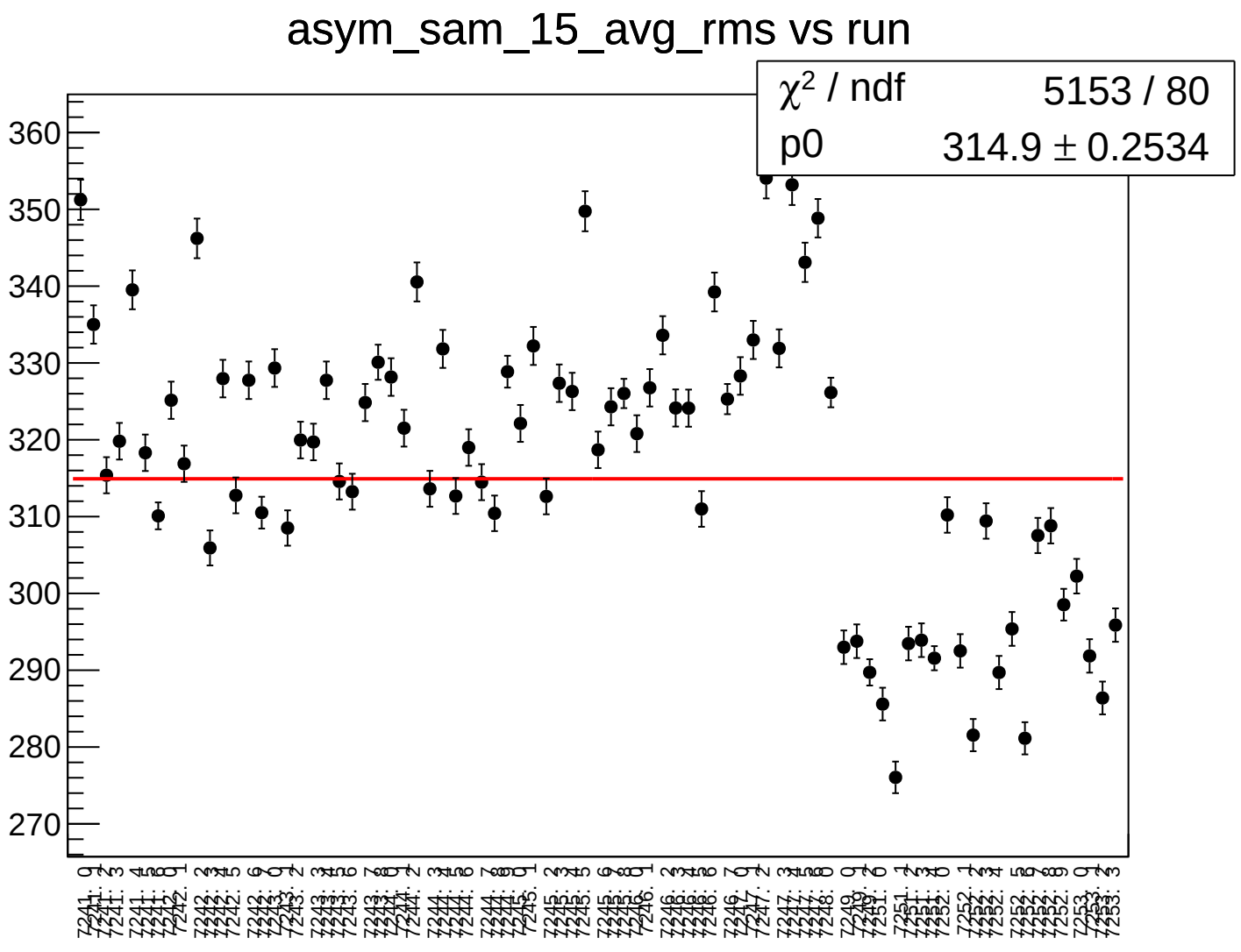

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 61.24 / 80
p0 −254.9 ± 367.5
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −246.2
Std Dev 0
2
1
0
−1
−2

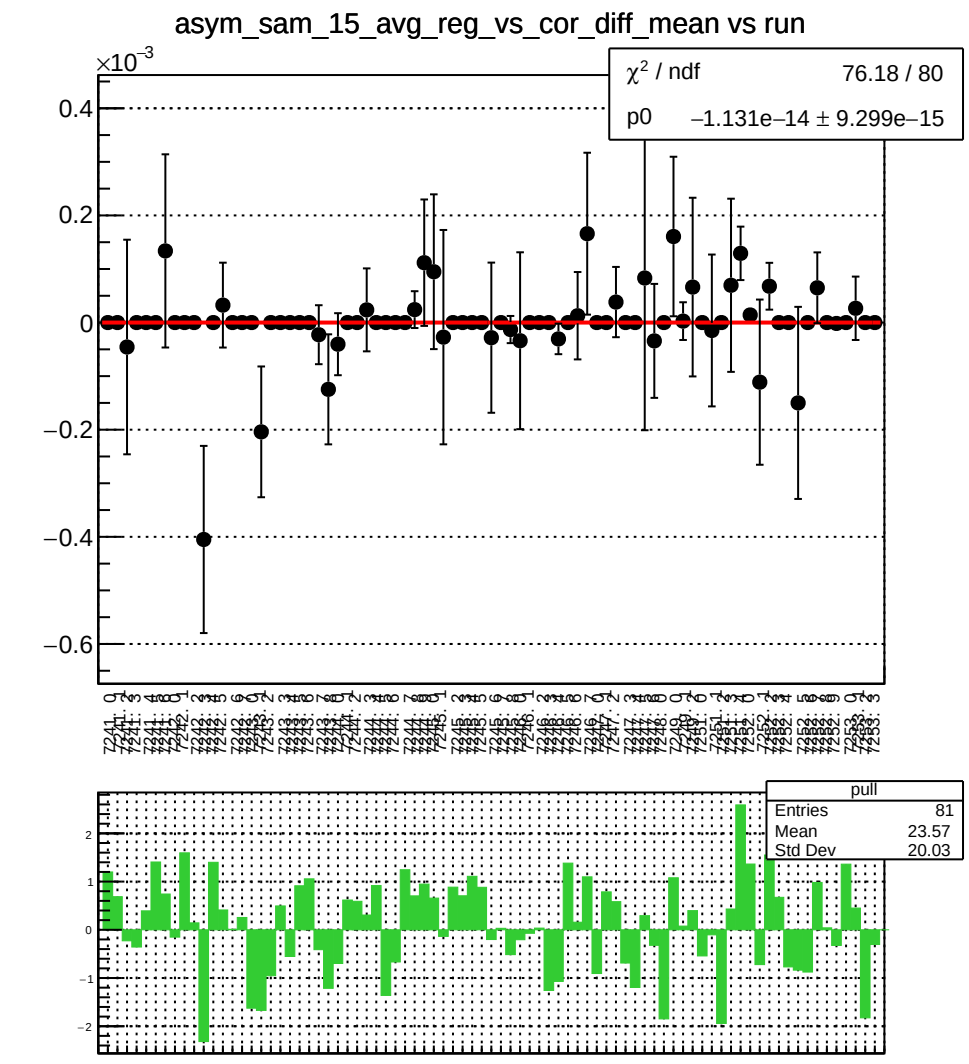

pull1D
Entries 81
Mean 0.003476
Std Dev 0.8695
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

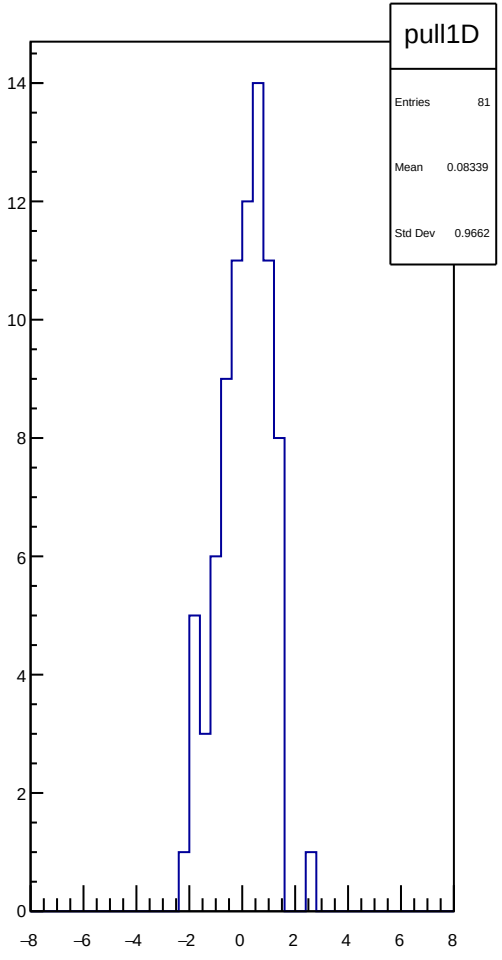

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 3684 / 80
p0 323.1 ± 0.2599
370
360
350
340
330
320
310
300
290

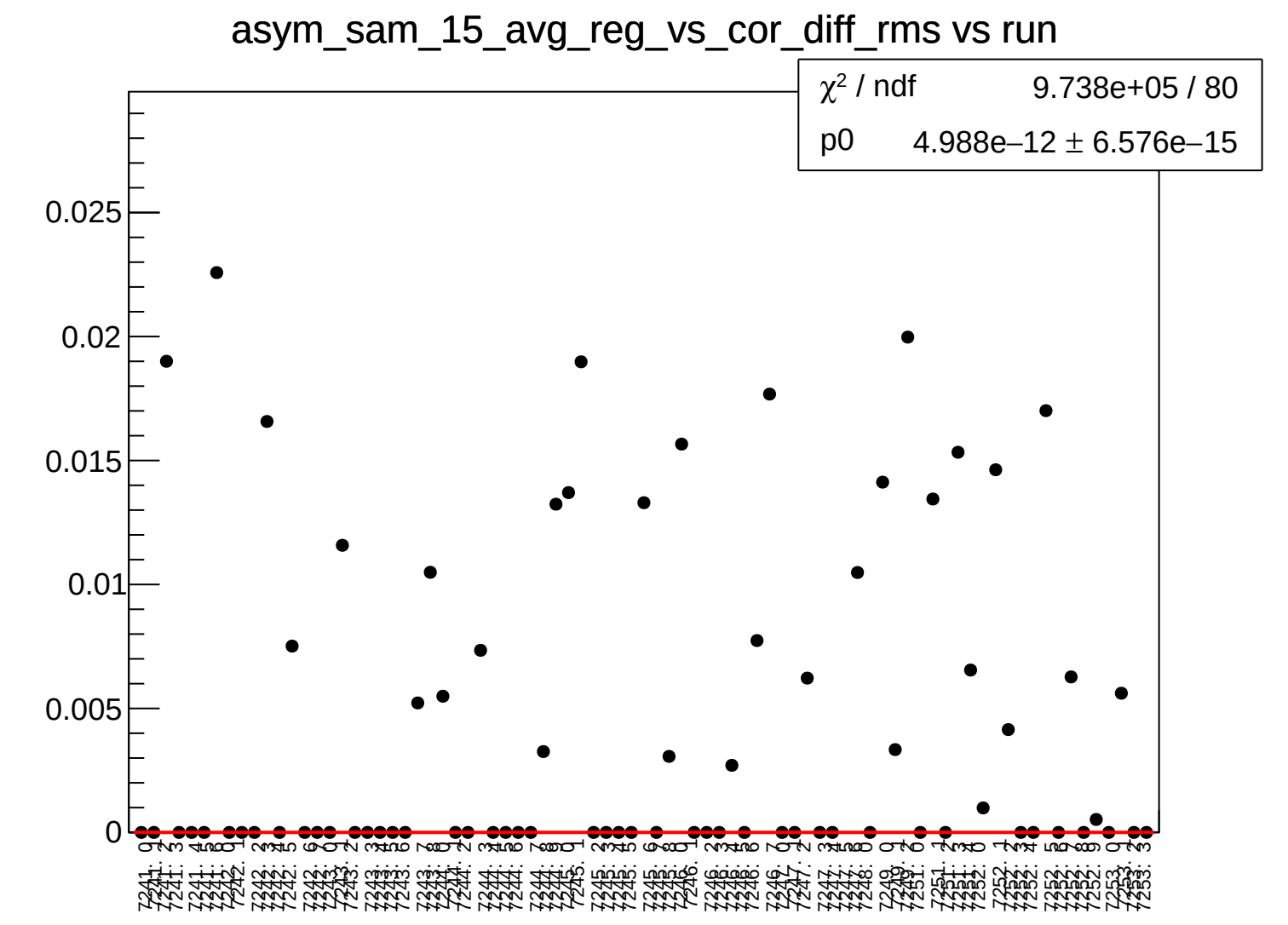

asym_sam_15_avg_mean vs run
χ² / ndf 59.57 / 80
p0 328.7 ± 358.4
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −421.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

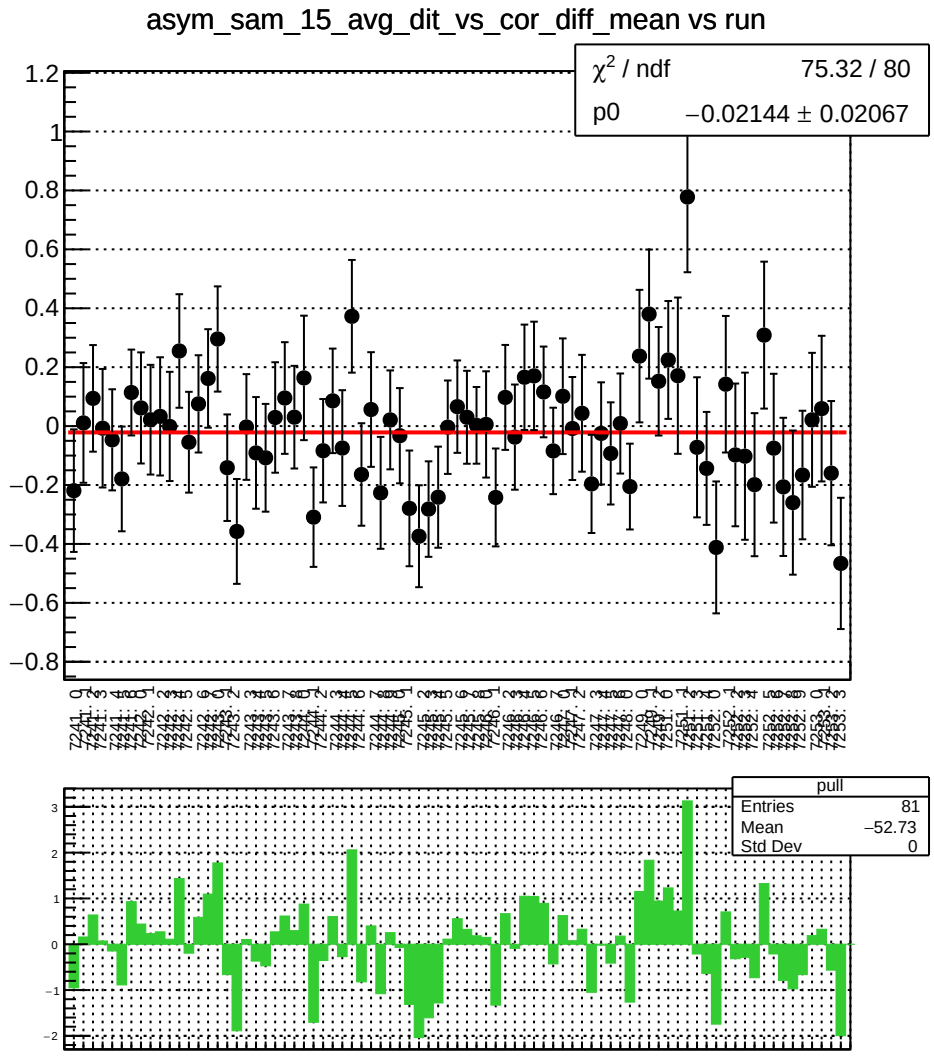

pull1D
Entries 81
Mean −0.002982
Std Dev 0.8575
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

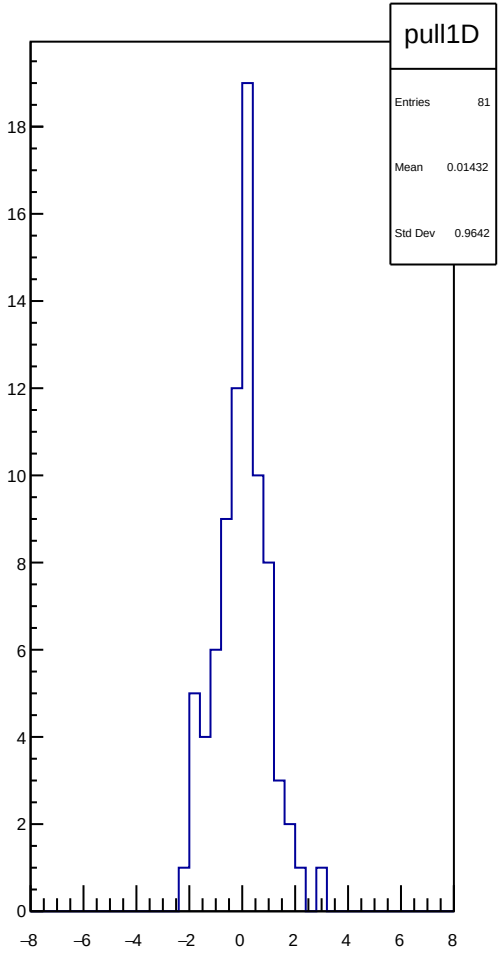

asym_sam_15_avg_rms vs run
χ^2 / ndf 5153 / 80
p0 314.9 ± 0.2534
360
350
340
330
320
310
300
290
280
270

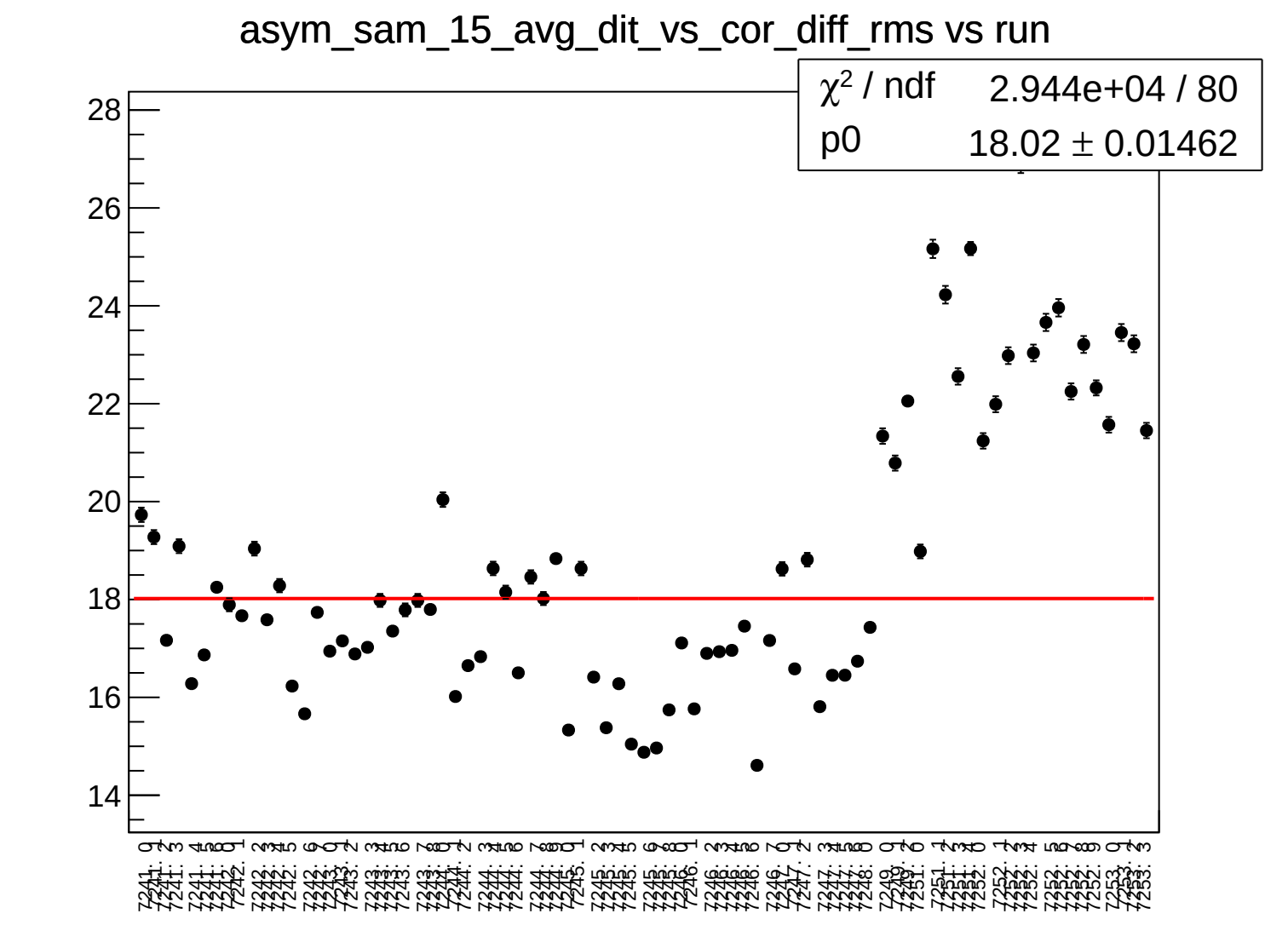

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 76.18 / 80
p0 −1.131e−14 ± 9.299e−15
pull
Entries 81
Mean 23.57
Std Dev 20.03

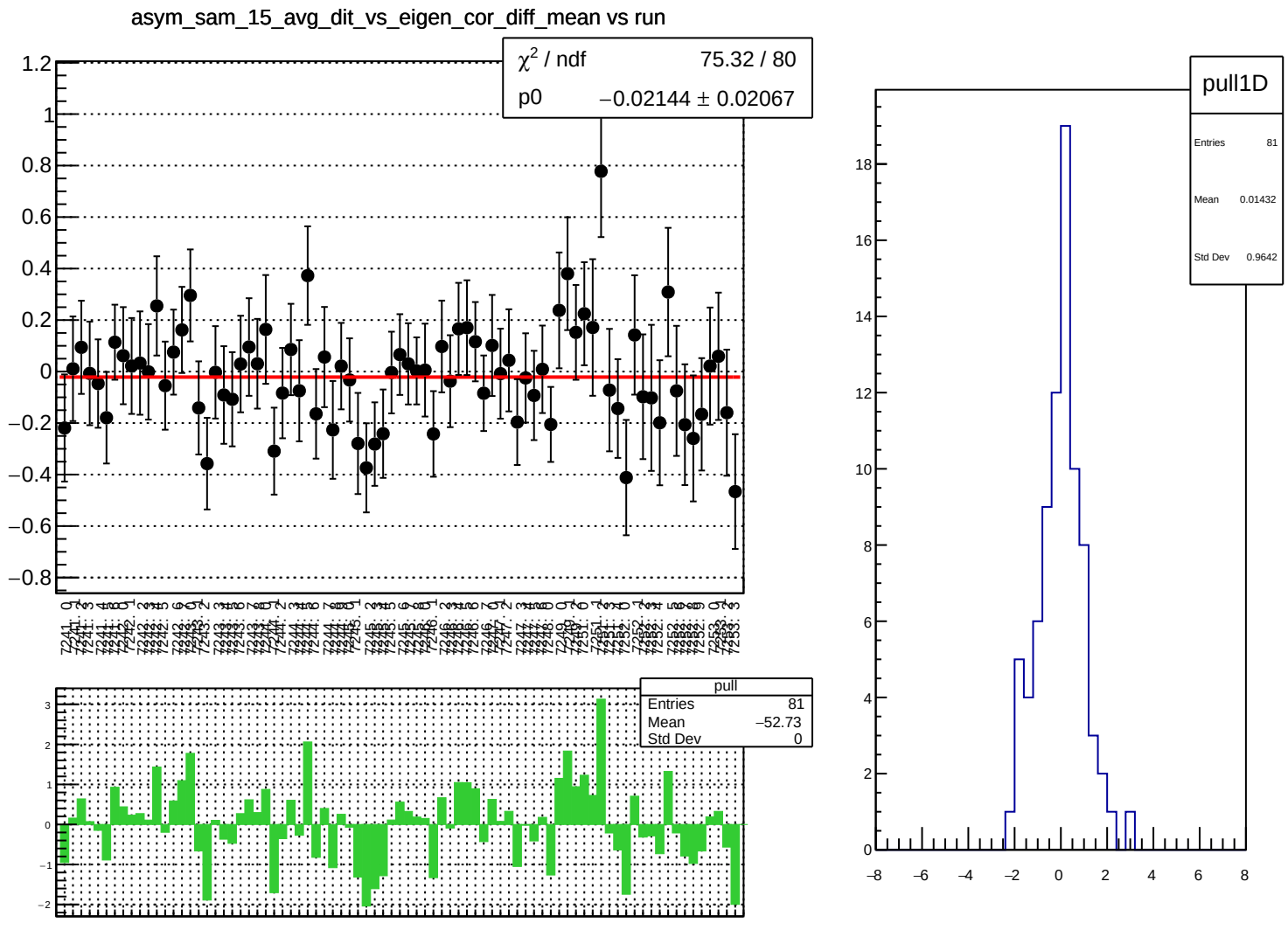

pull1D
Entries 81
Mean 0.08339
Std Dev 0.9662

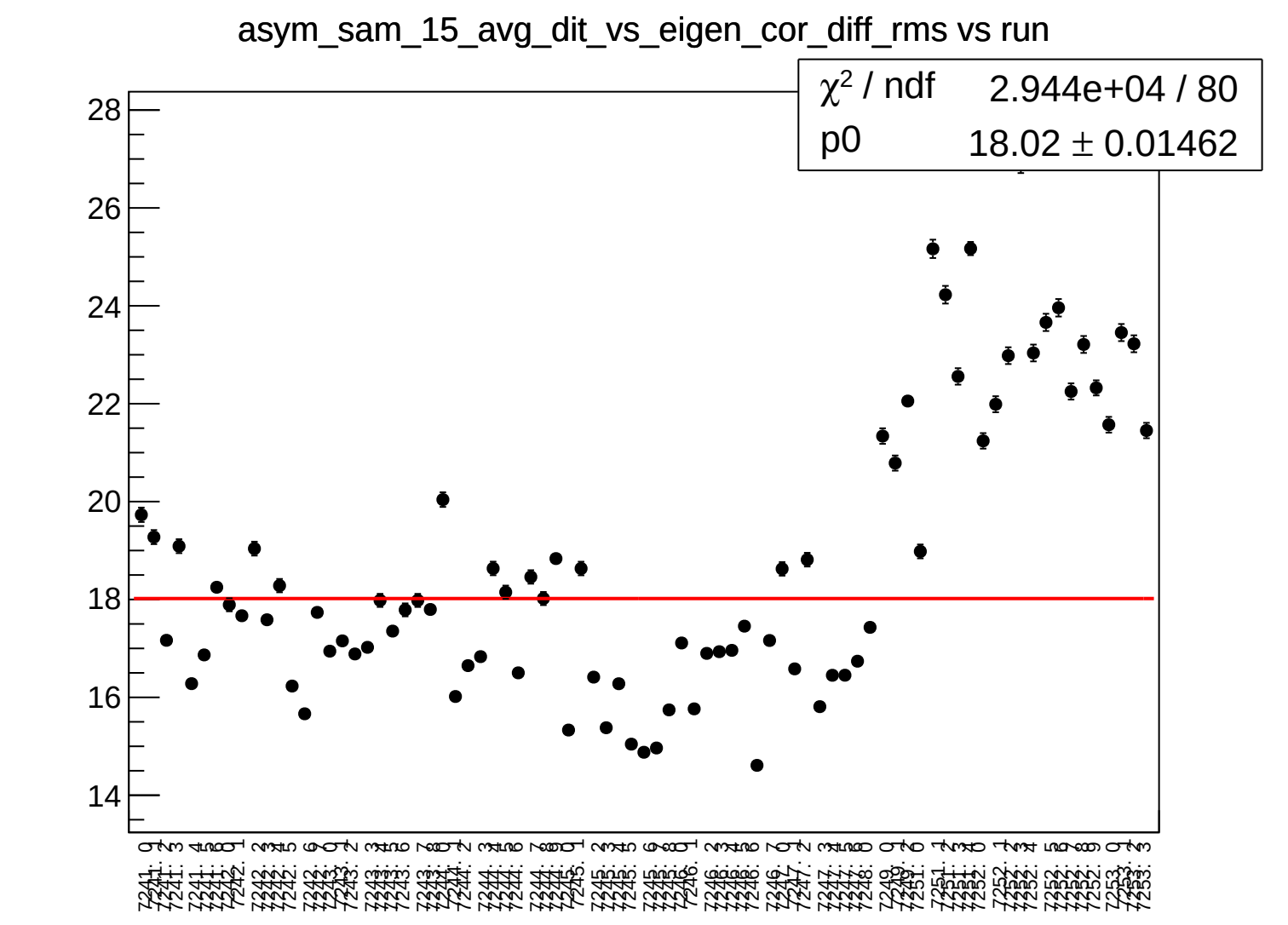

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.738e+05 / 80
p0 4.988e−12 ± 6.576e−15
0.025
0.02
0.015
0.01
0.005
0

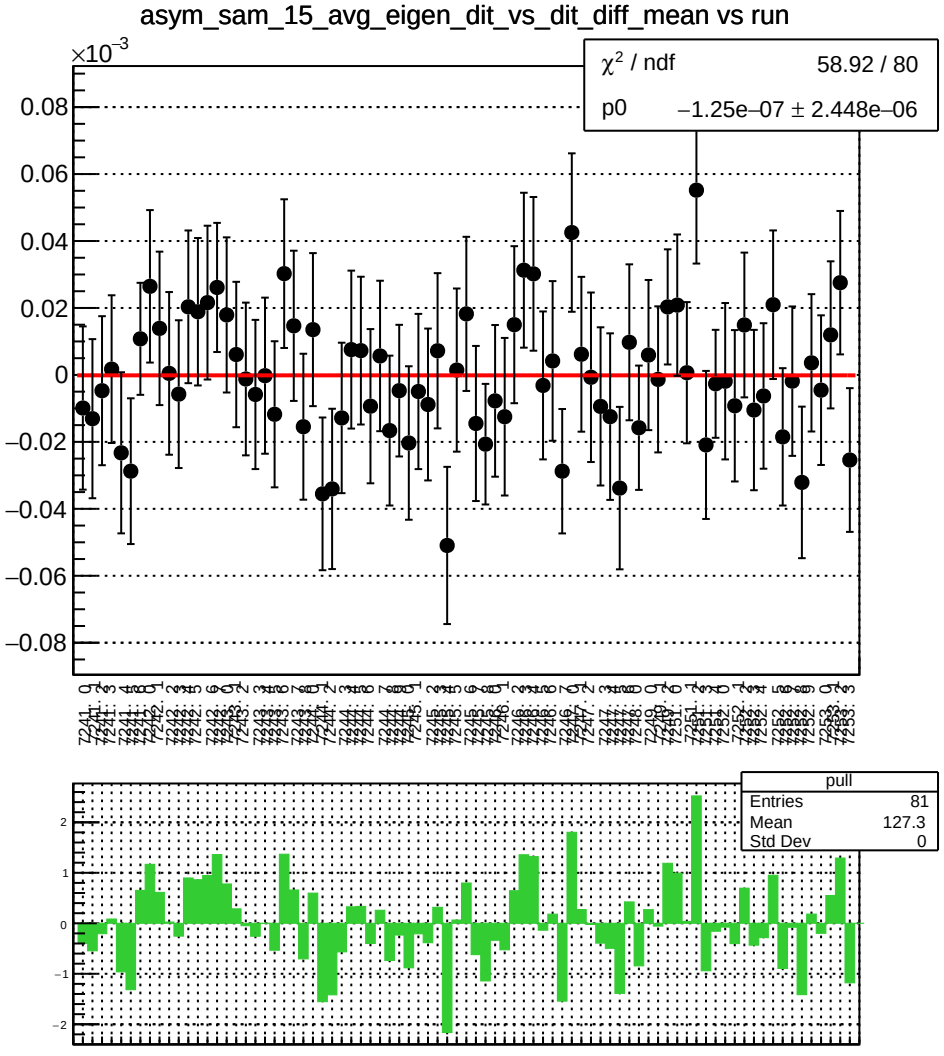

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 75.32 / 80
p0 −0.02144 ± 0.02067
pull
Entries 81
Mean −52.73
Std Dev 0

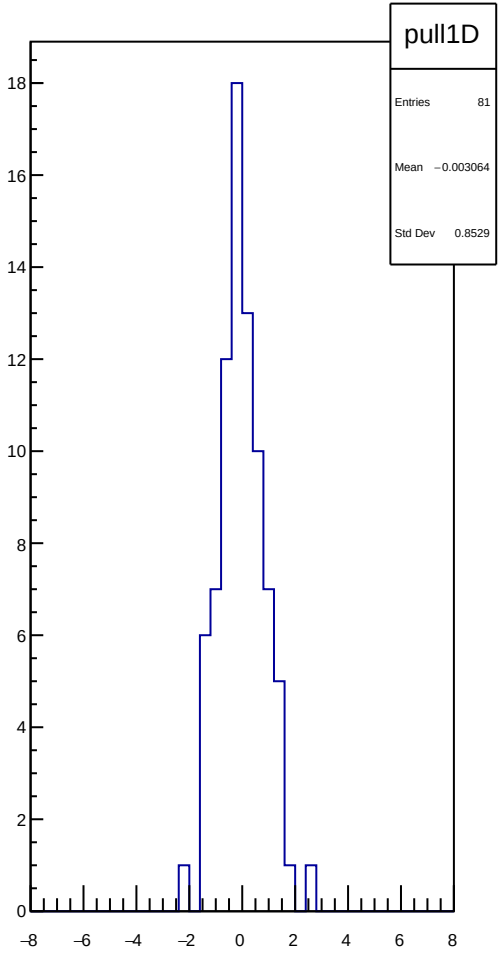

pull1D
Entries 81
Mean 0.01432
Std Dev 0.9642

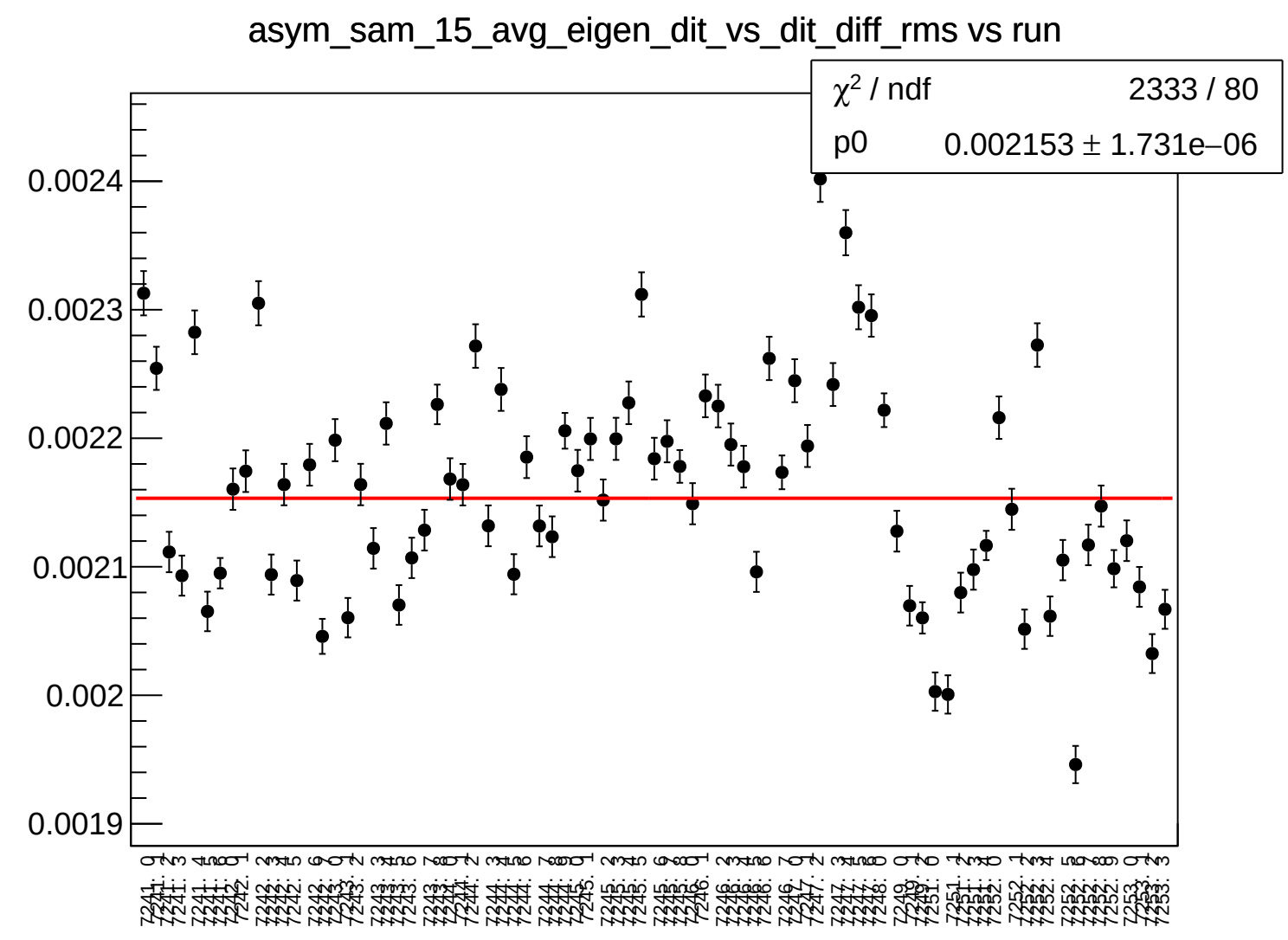

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.944e+04 / 80
p0 18.02 ± 0.01462
28
26
24
22
20
18
16
14

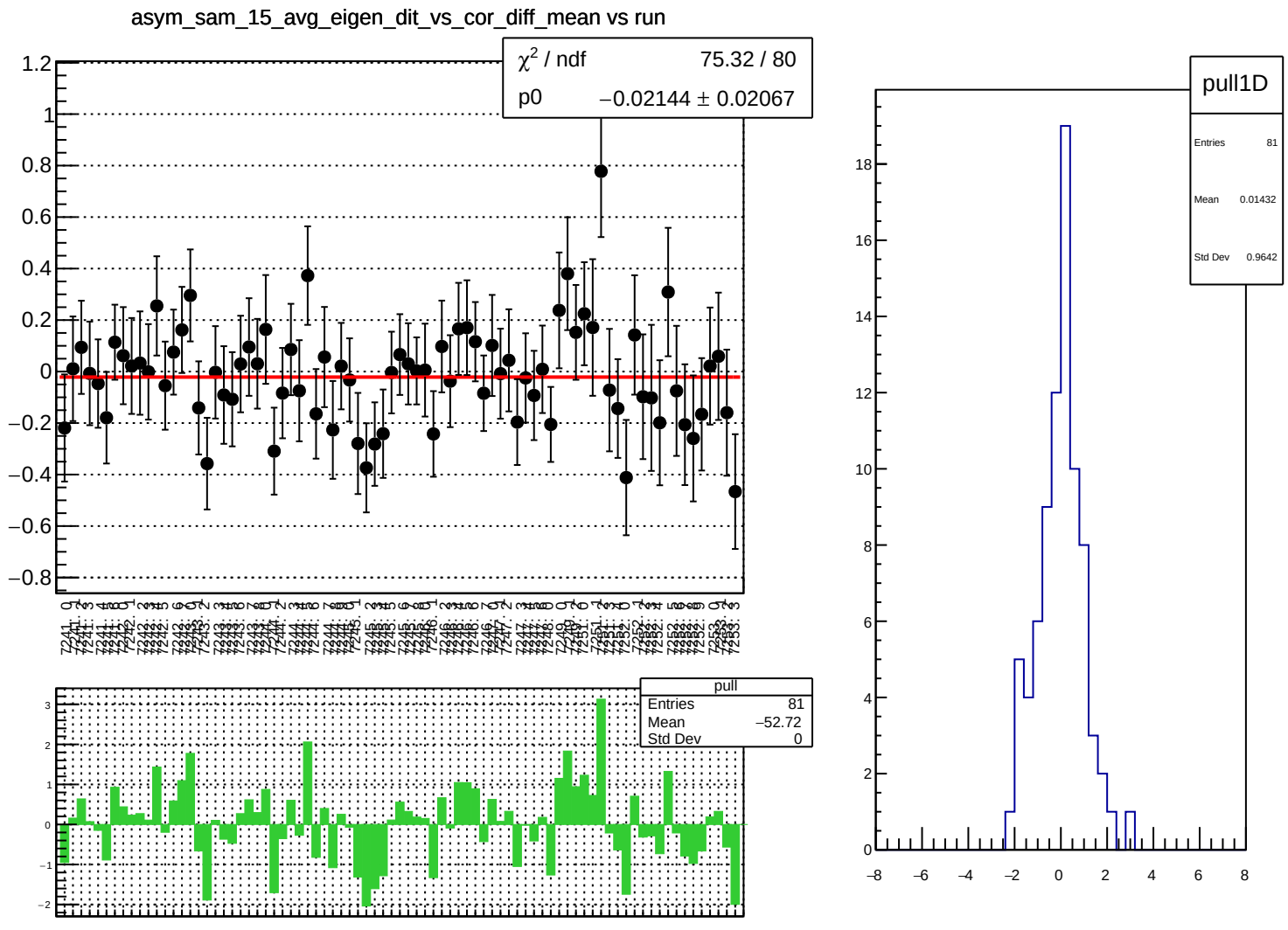

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.32 / 80
p0 −0.02144 ± 0.02067
pull
Entries 81
Mean −52.73
Std Dev 0
pull1D
Entries 81
Mean 0.01432
Std Dev 0.9642

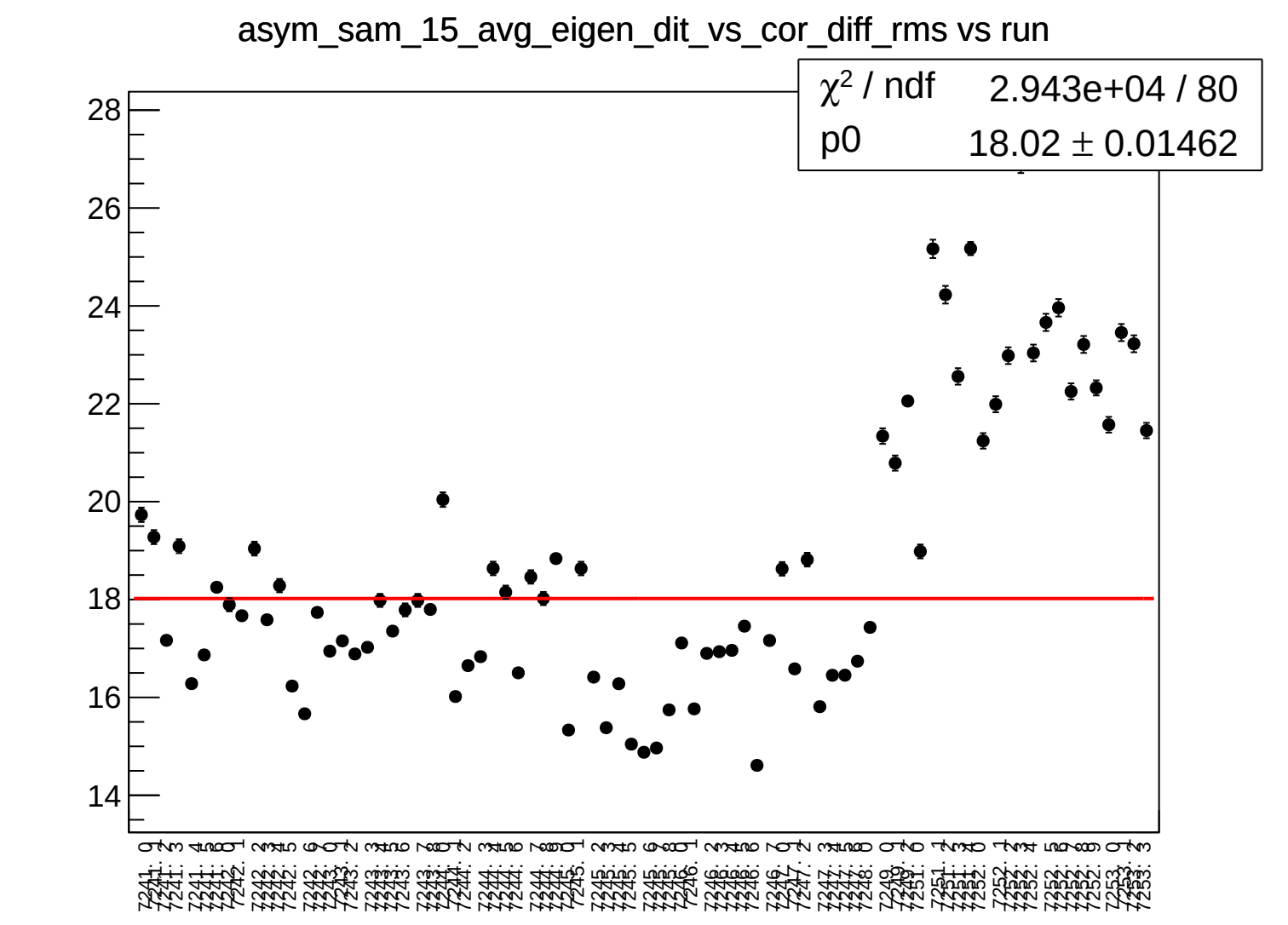

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.944e+04 / 80
p0 18.02 ± 0.01462
28
26
24
22
20
18
16
14

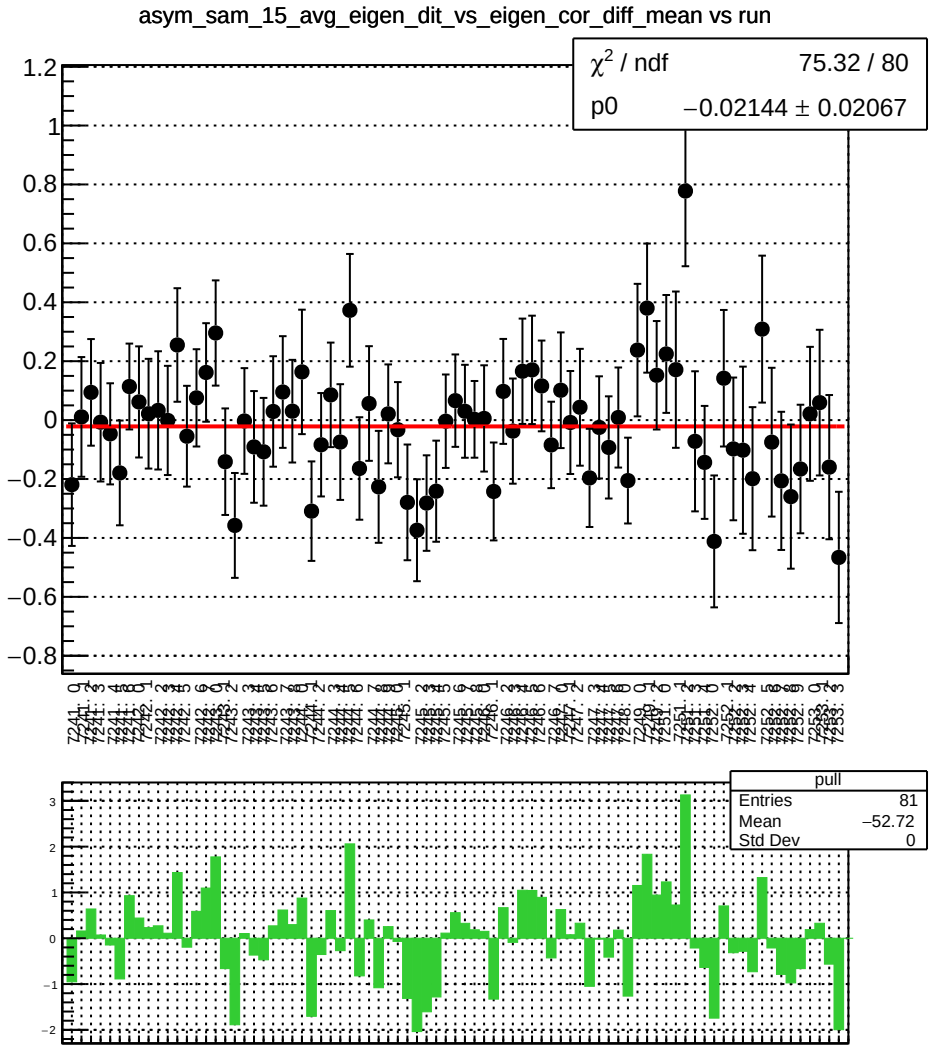

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 58.92 / 80
p0 −1.25e−07 ± 2.448e−06
pull
Entries 81
Mean 127.3
Std Dev 0

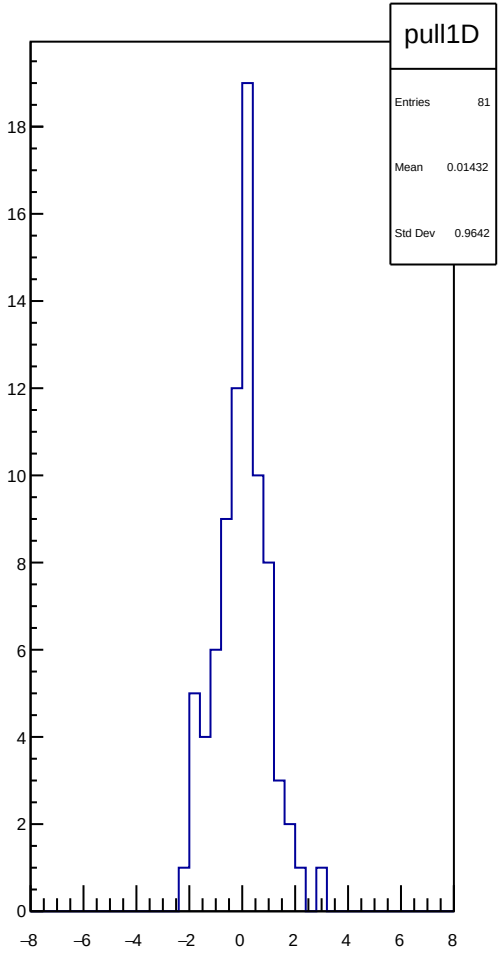

pull1D
Entries 81
Mean −0.003064
Std Dev 0.8529

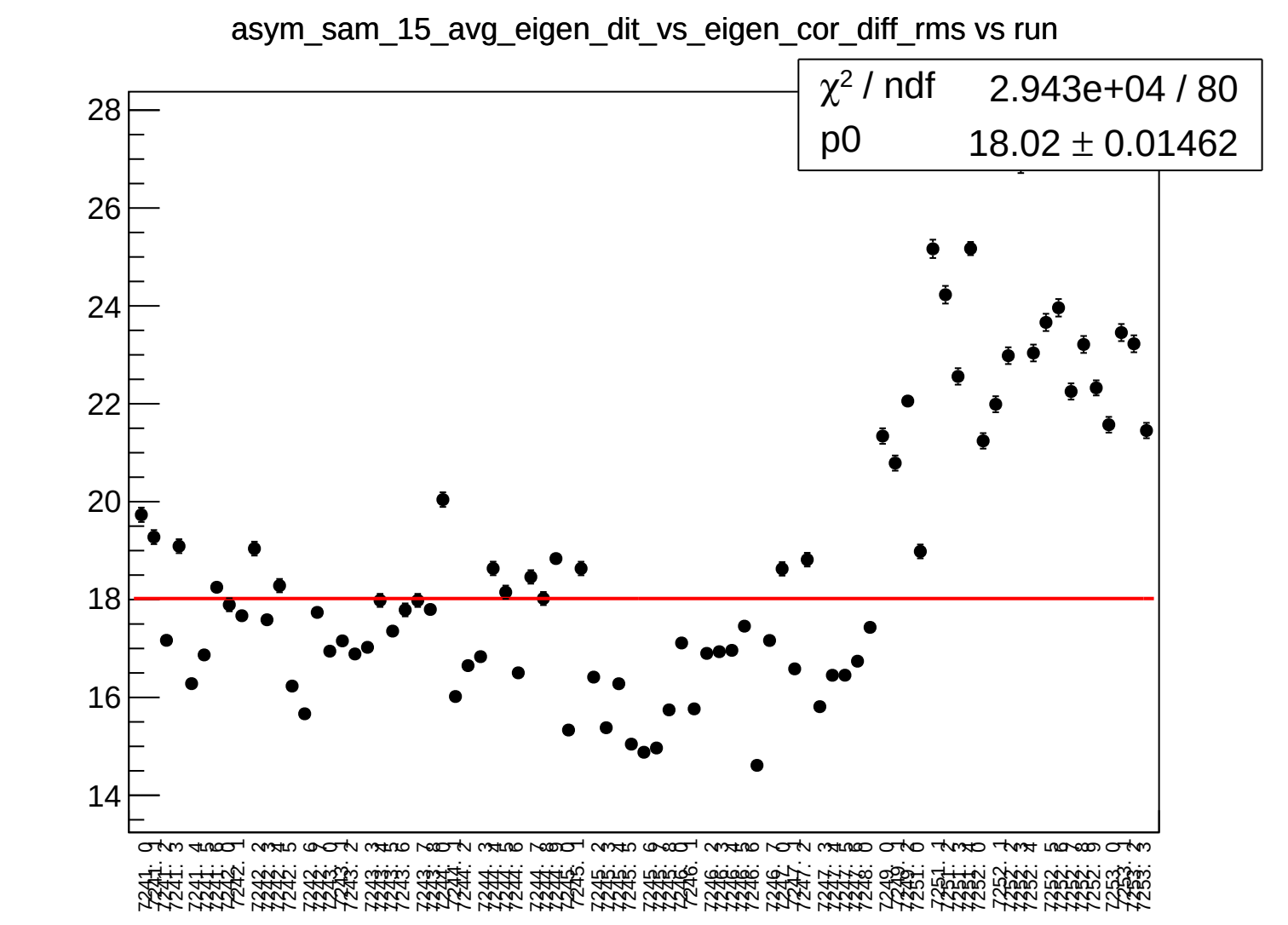

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2333 / 80
p0 0.002153 ± 1.731e−06
0.0024
0.0023
0.0022
0.0021
0.002
0.0019

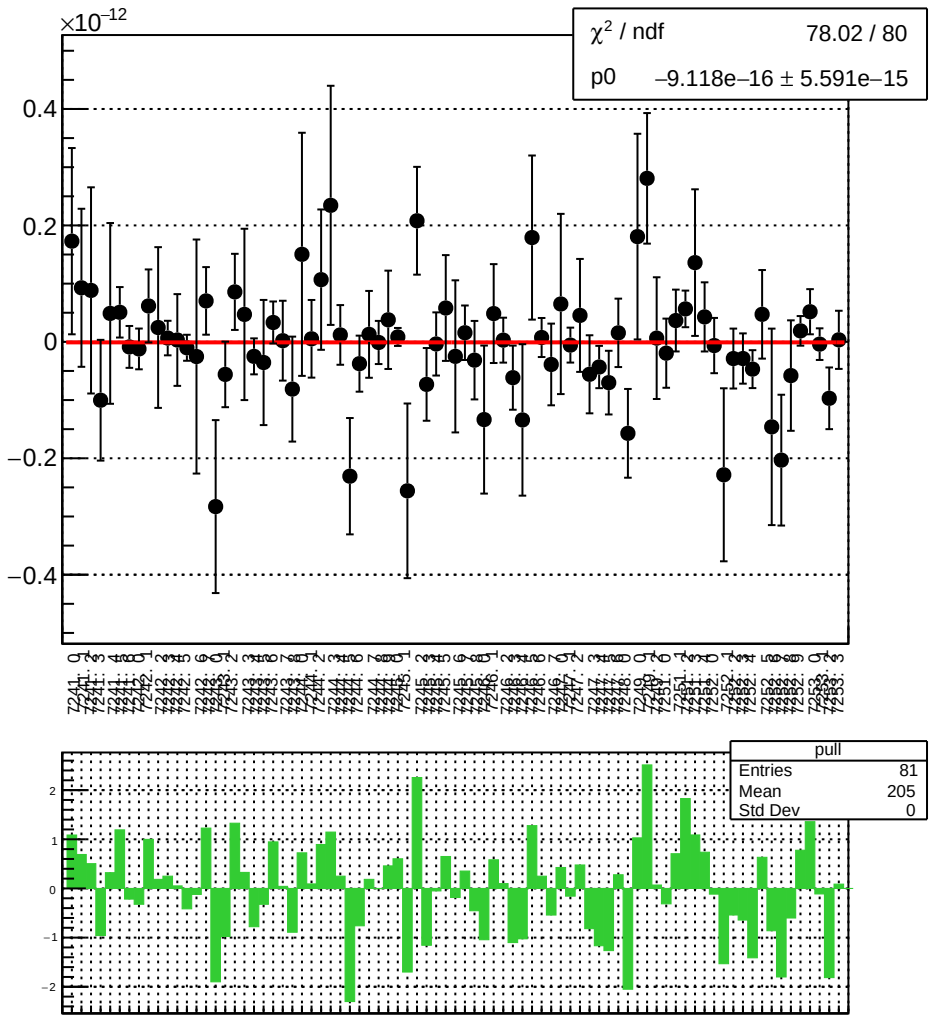

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.32 / 80
p0 −0.02144 ± 0.02067
pull
Entries 81
Mean −52.72
Std Dev 0
pull1D
Entries 81
Mean 0.01432
Std Dev 0.9642

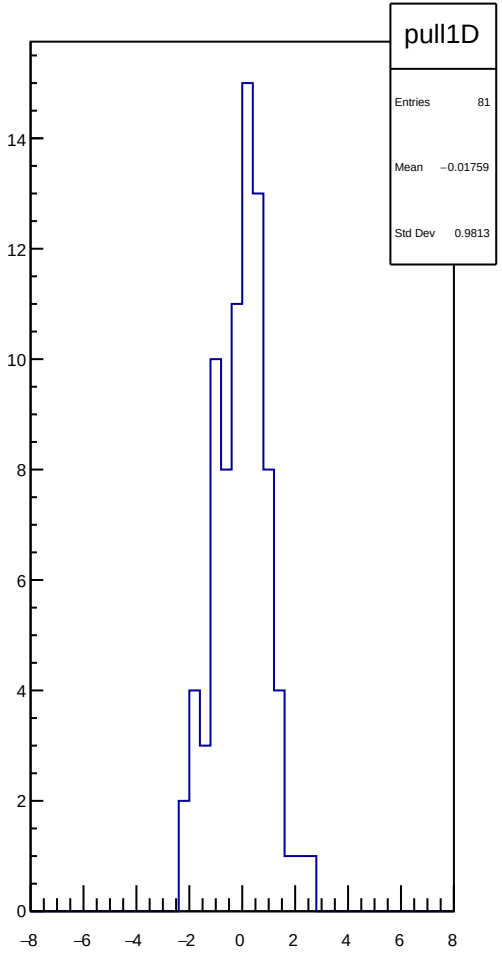

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.943e+04 / 80
p0 18.02 ± 0.01462
28
26
24
22
20
18
16
14

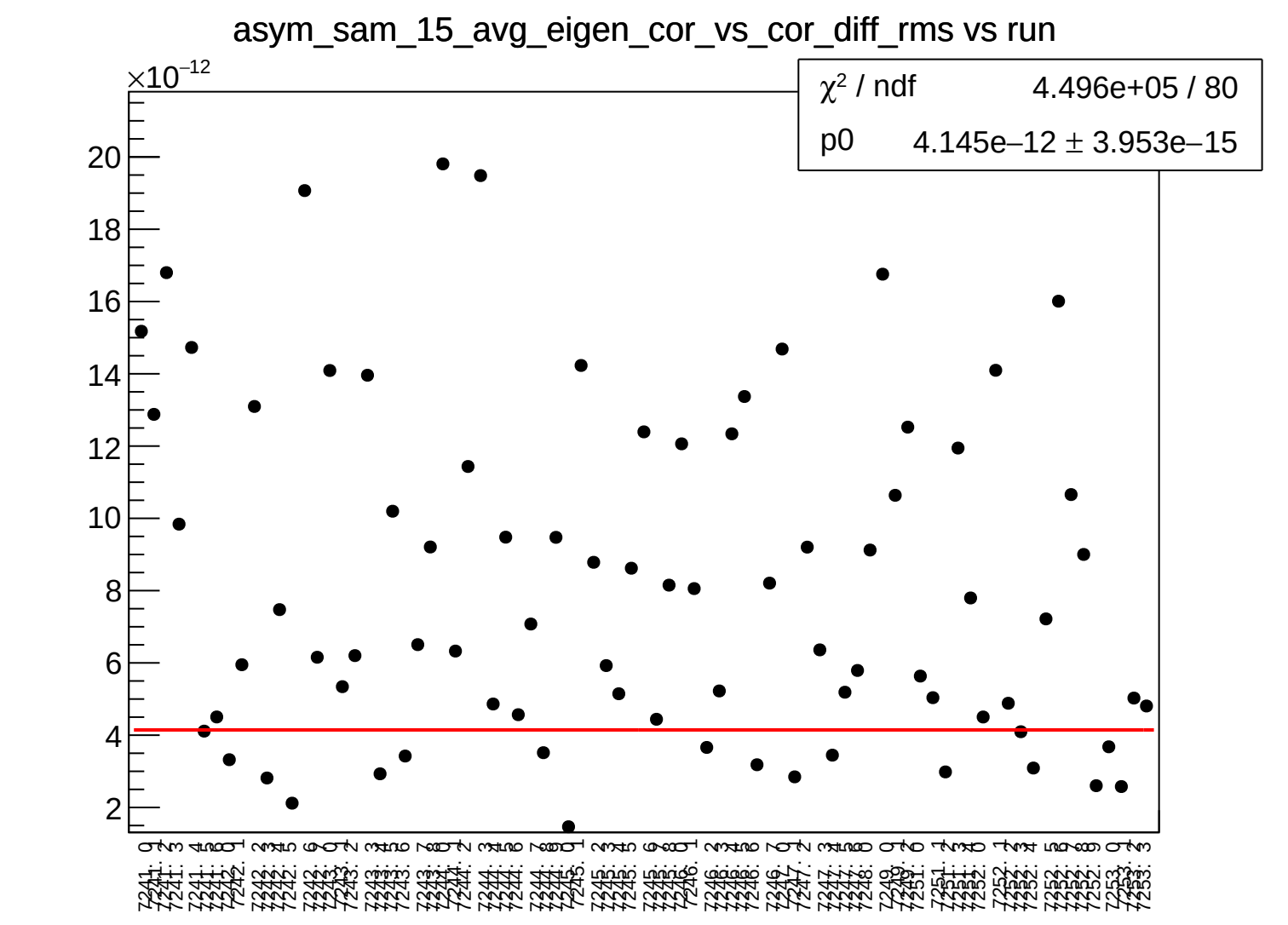

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.32 / 80
p0 −0.02144 ± 0.02067
pull
Entries 81
Mean −52.72
Std Dev 0

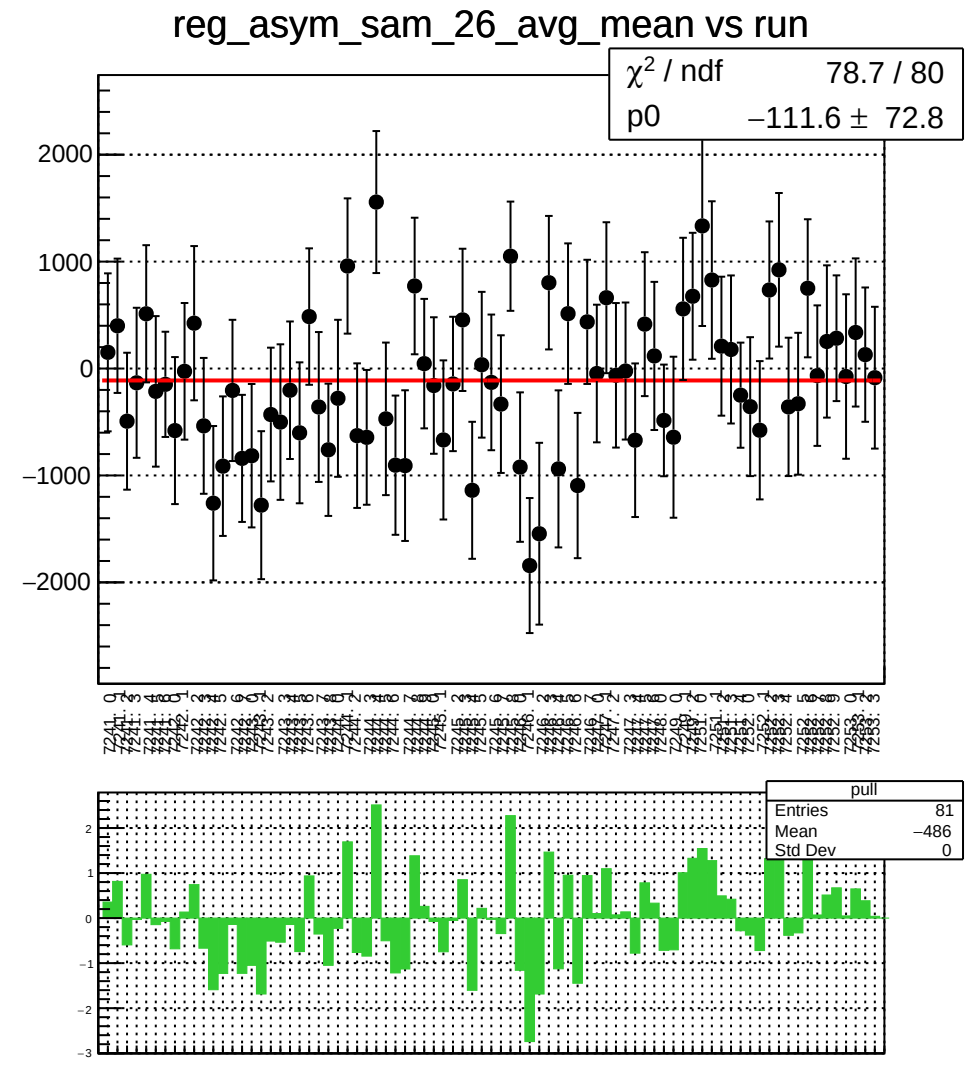

pull1D
Entries 81
Mean 0.01432
Std Dev 0.9642

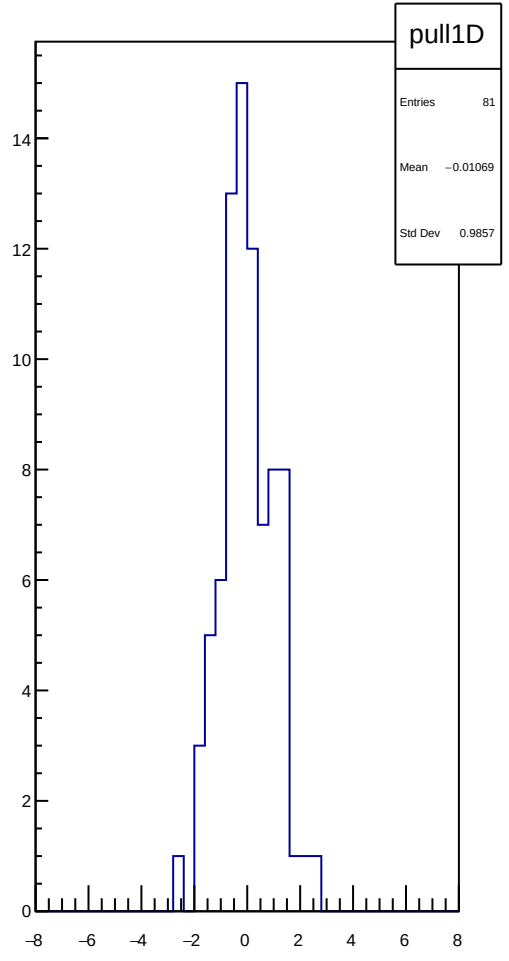

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.943e+04 / 80
p0 18.02 ± 0.01462
28
26
24
22
20
18
16
14

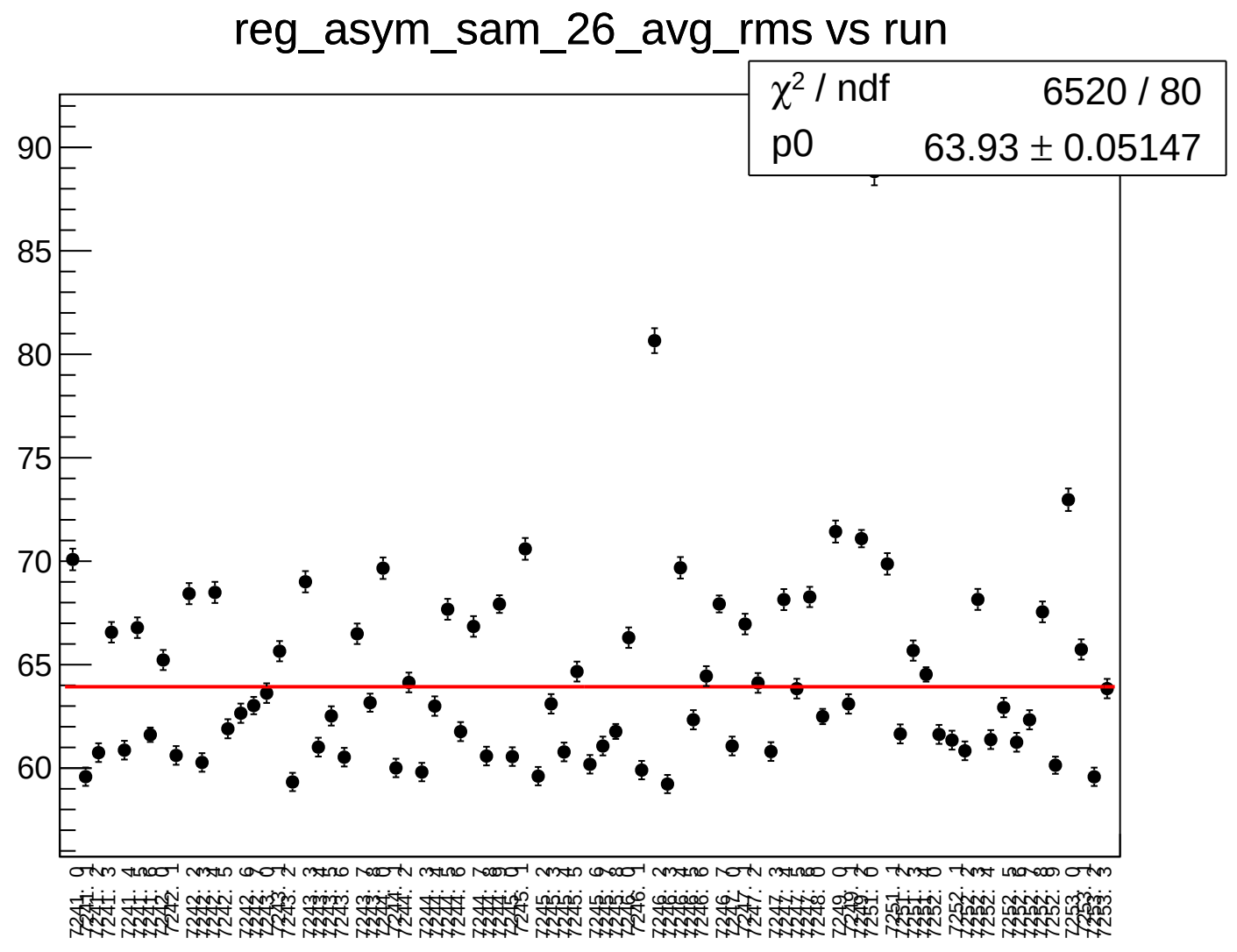

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 78.02 / 80
p0 −9.118e−16 ± 5.591e−15
0.4
0.2
0
−0.2
−0.4
pull
Entries 81
Mean 205
Std Dev 0
2
1
0
−1
−2

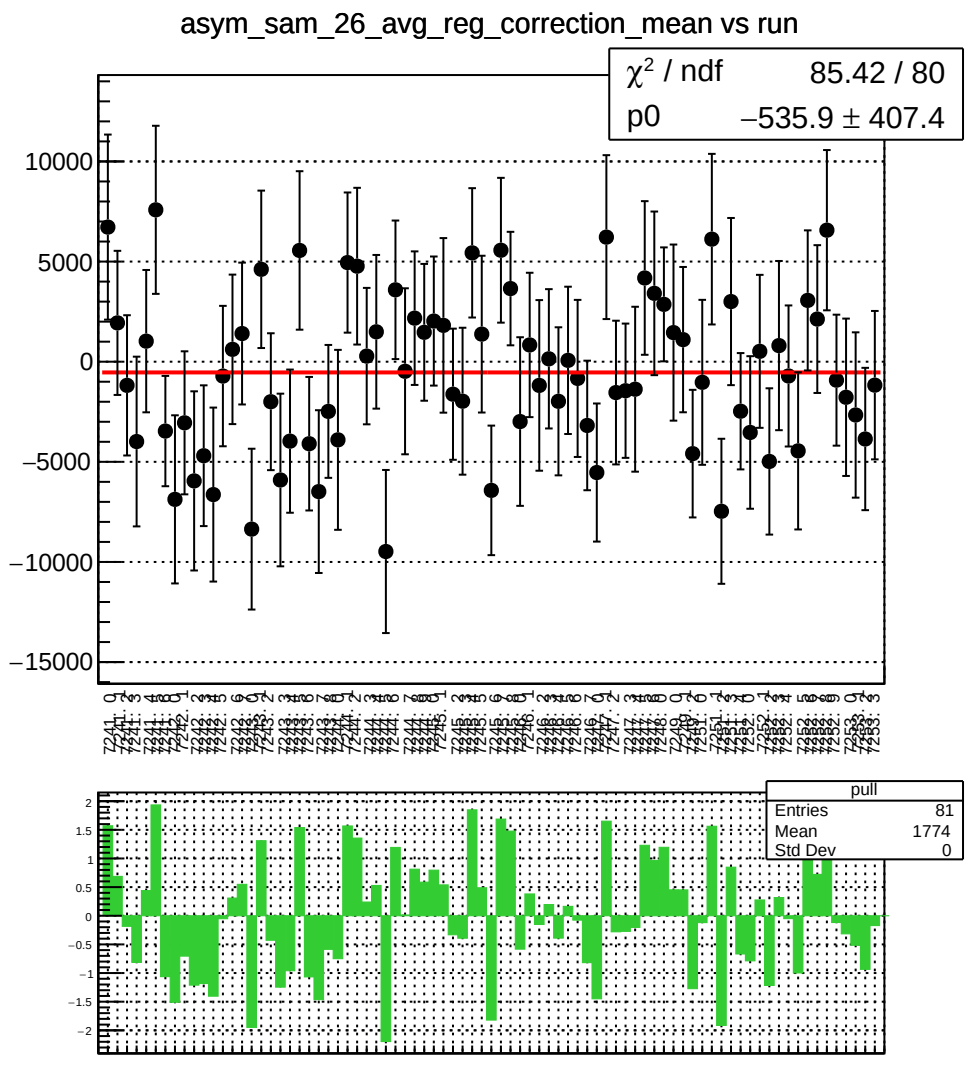

pull1D
Entries 81
Mean −0.01759
Std Dev 0.9813
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

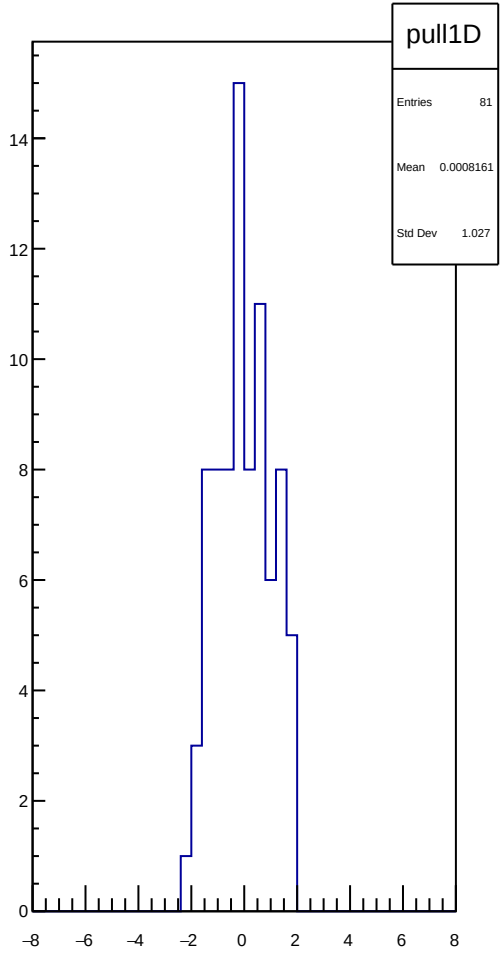

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.496e+05 / 80
p0 4.145e−12 ± 3.953e−15
20
18
16
14
12
10
8
6
4
2

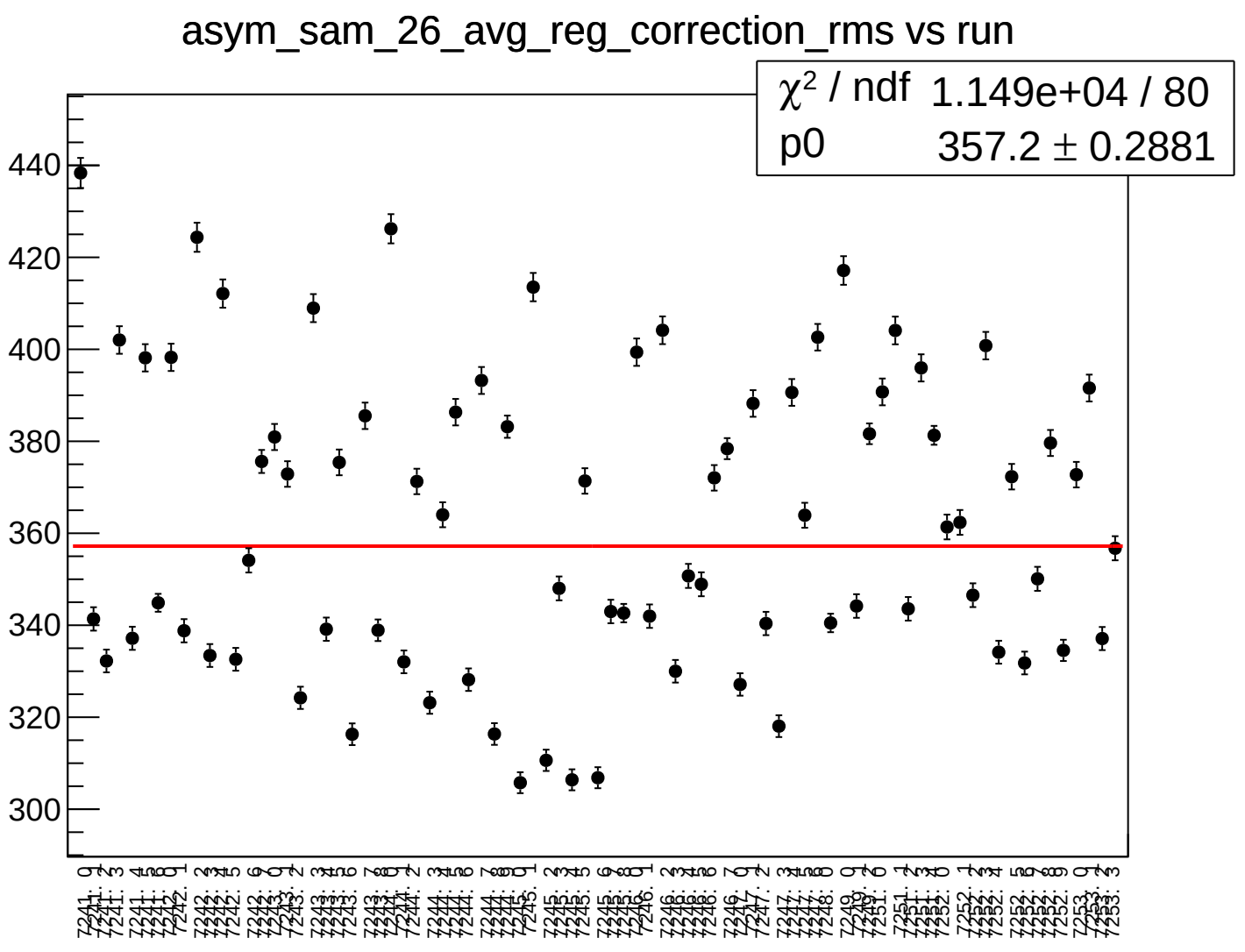

reg_asym_sam_26_avg_mean vs run
χ² / ndf 78.7 / 80
p0 −111.6 ± 72.8
2000
1000
0
−1000
−2000
pull
Entries 81
Mean −486
Std Dev 0

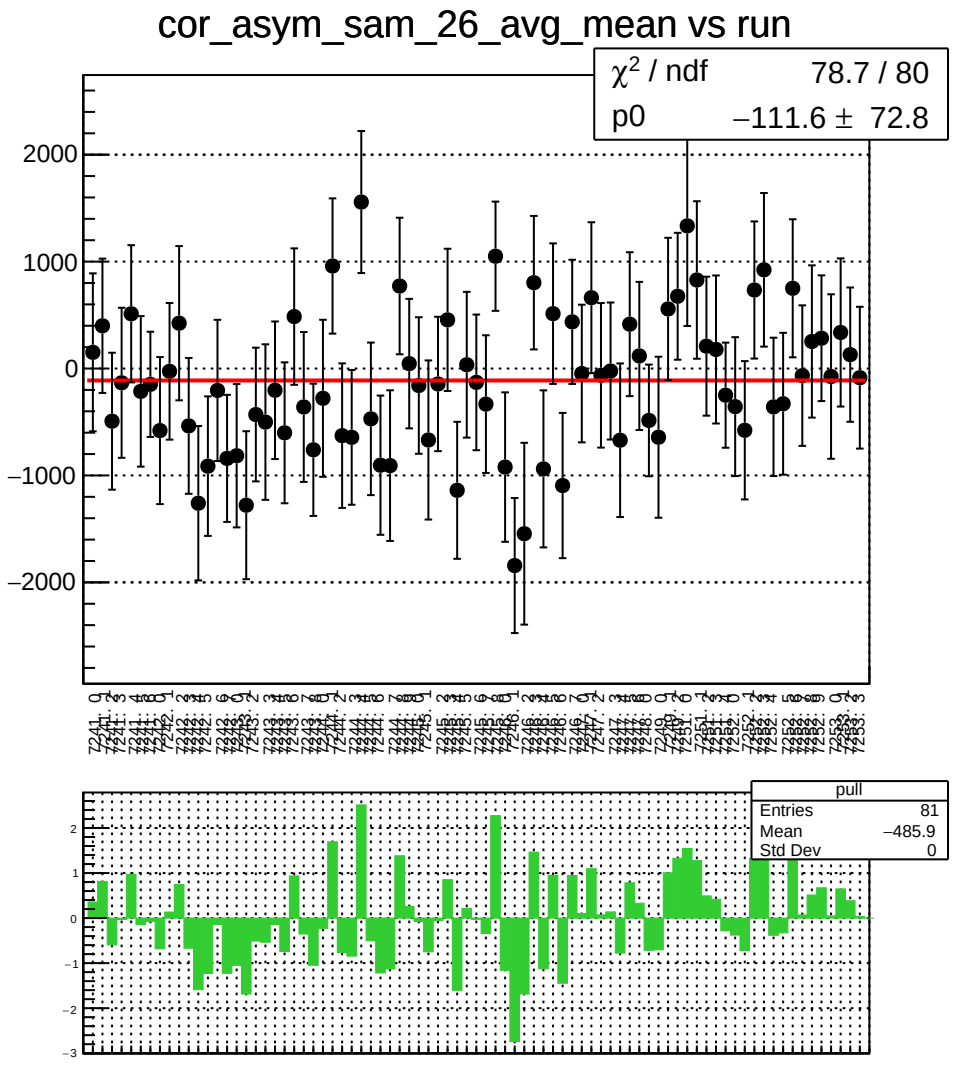

pull1D
Entries 81
Mean −0.01069
Std Dev 0.9857
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

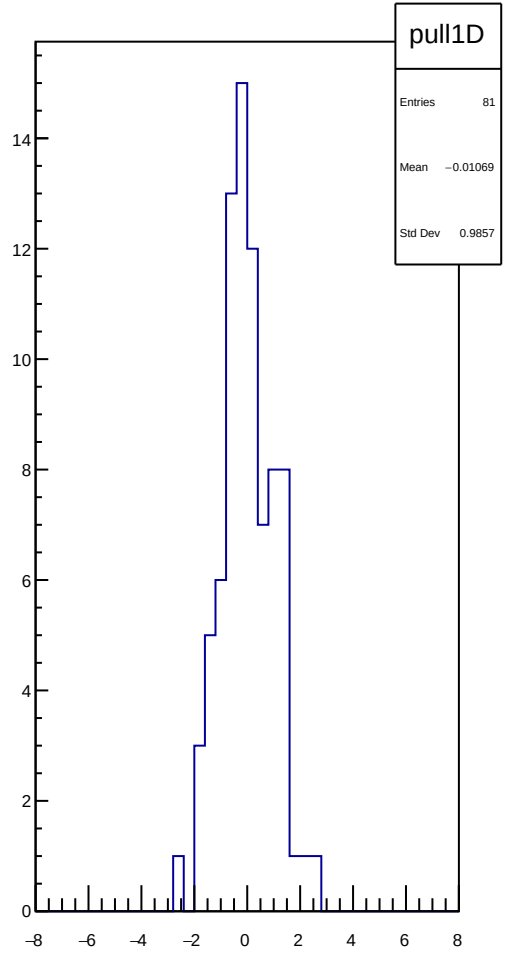

reg_asym_sam_26_avg_rms vs run
χ^2 / ndf 6520 / 80
p0 63.93 ± 0.05147
90
85
80
75
70
65
60

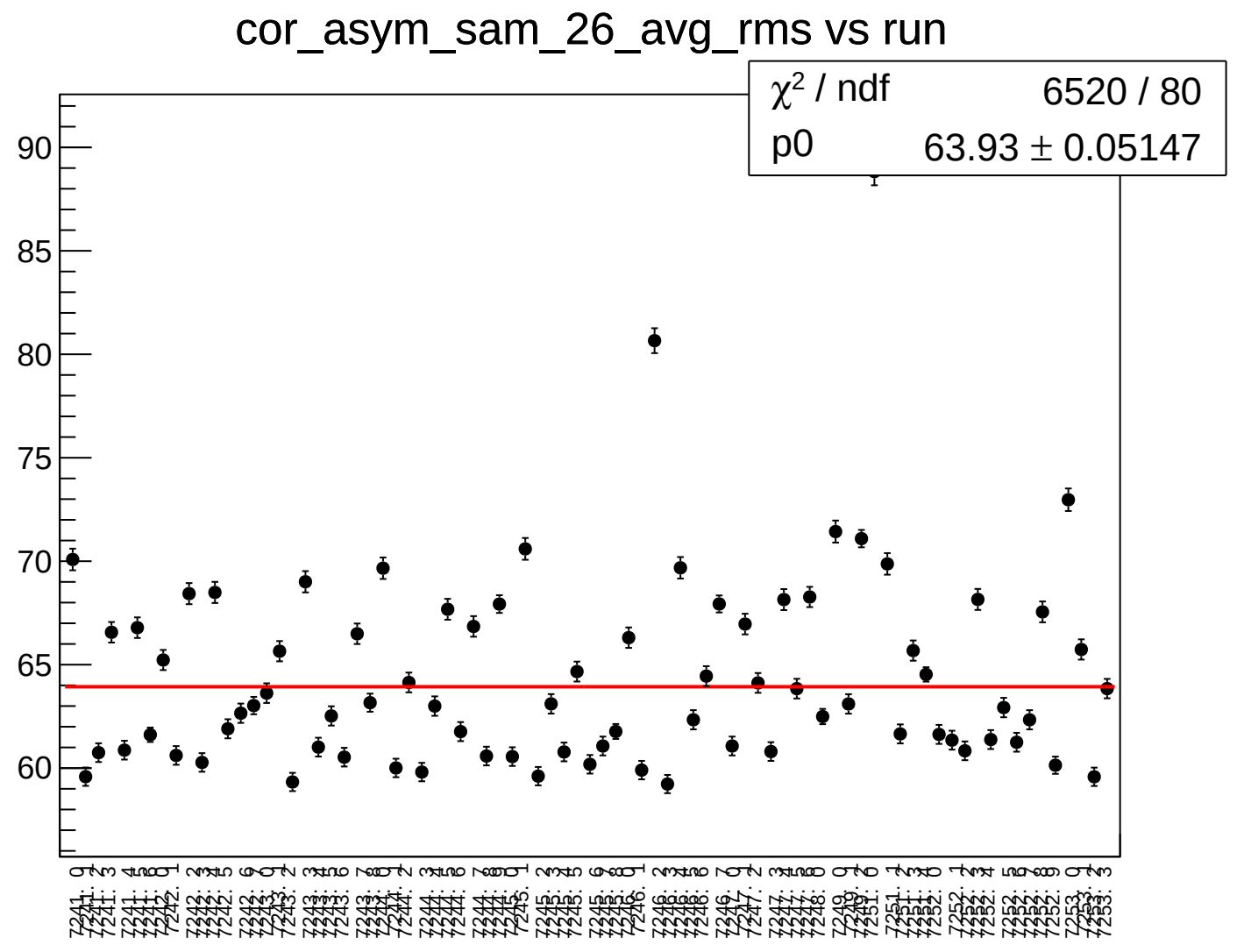

asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 85.42 / 80
p0 −535.9 ± 407.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean 1774
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

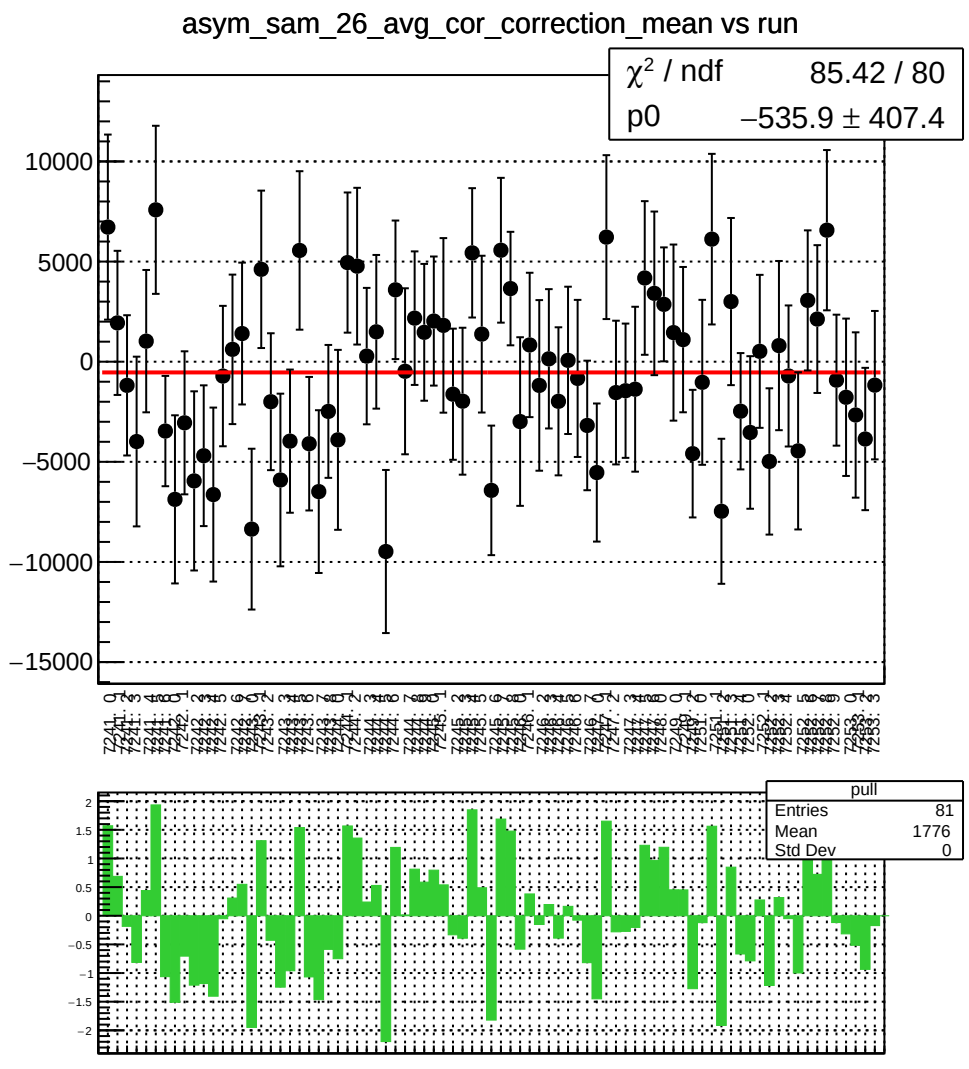

pull1D
Entries 81
Mean 0.0008161
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

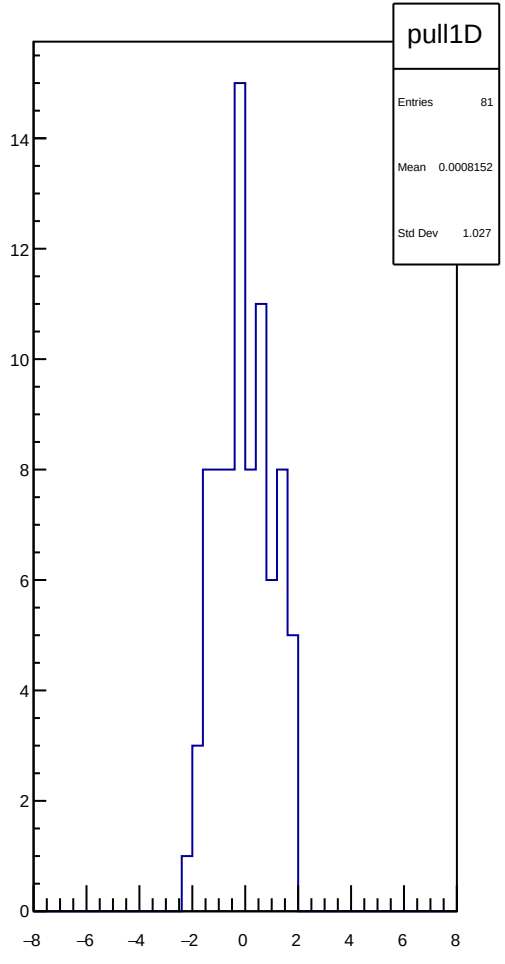

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 1.149e+04 / 80
p0 357.2 ± 0.2881
440
420
400
380
360
340
320
300

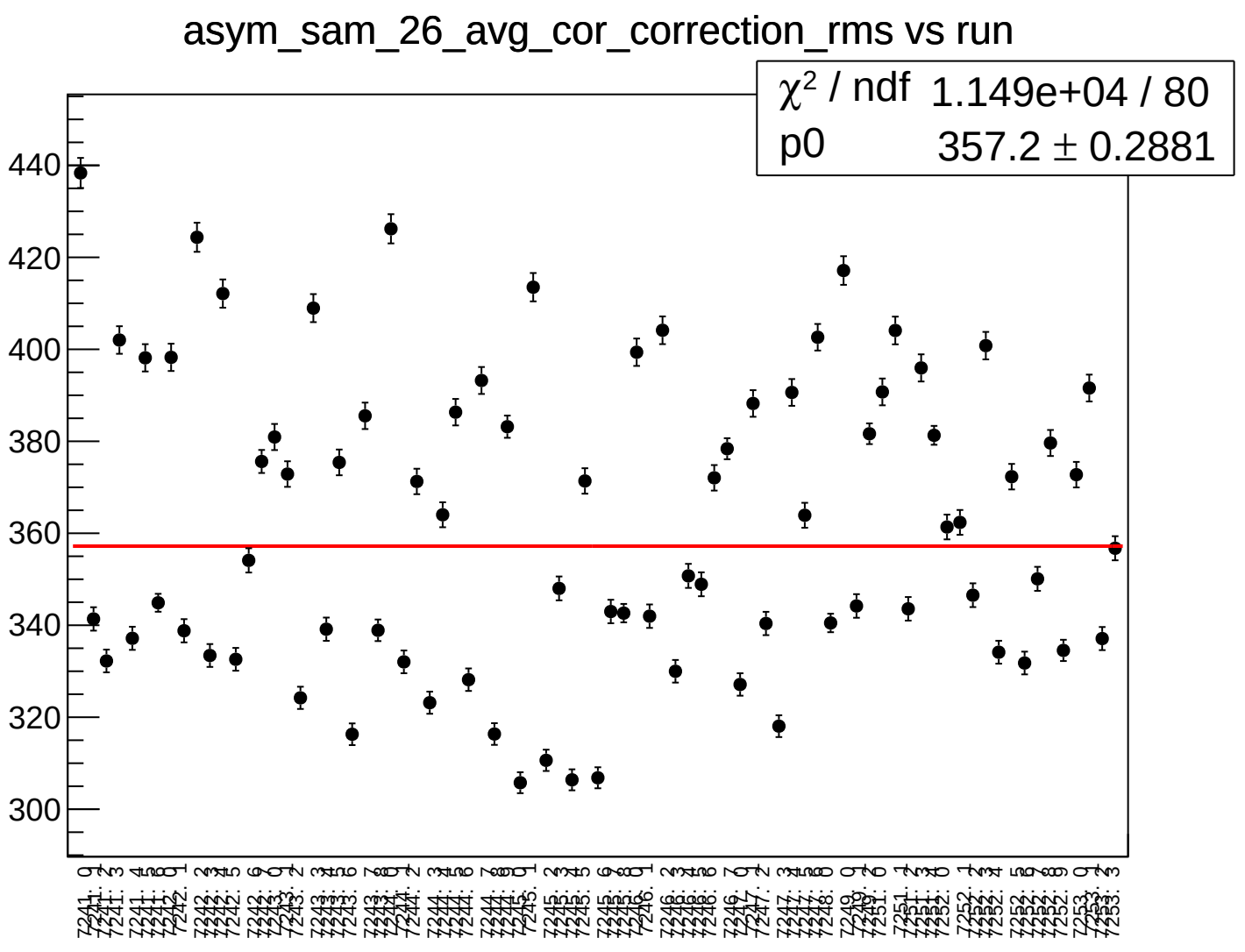

cor_asym_sam_26_avg_mean vs run
χ² / ndf 78.7 / 80
p0 −111.6 ± 72.8
2000
1000
0
−1000
−2000
pull
Entries 81
Mean −485.9
Std Dev 0
2
1
0
−1
−2
−3

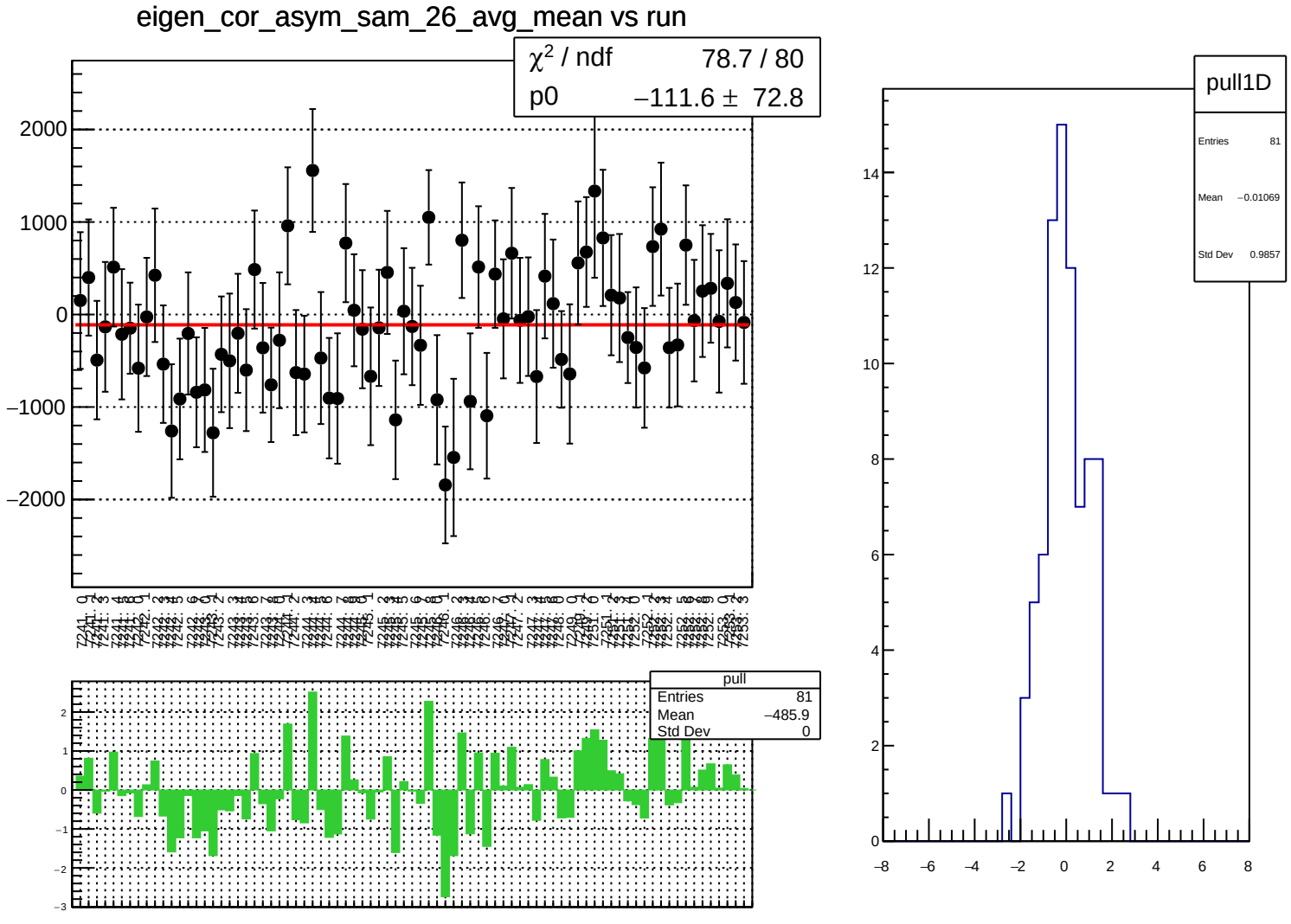

pull1D
Entries 81
Mean −0.01069
Std Dev 0.9857
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

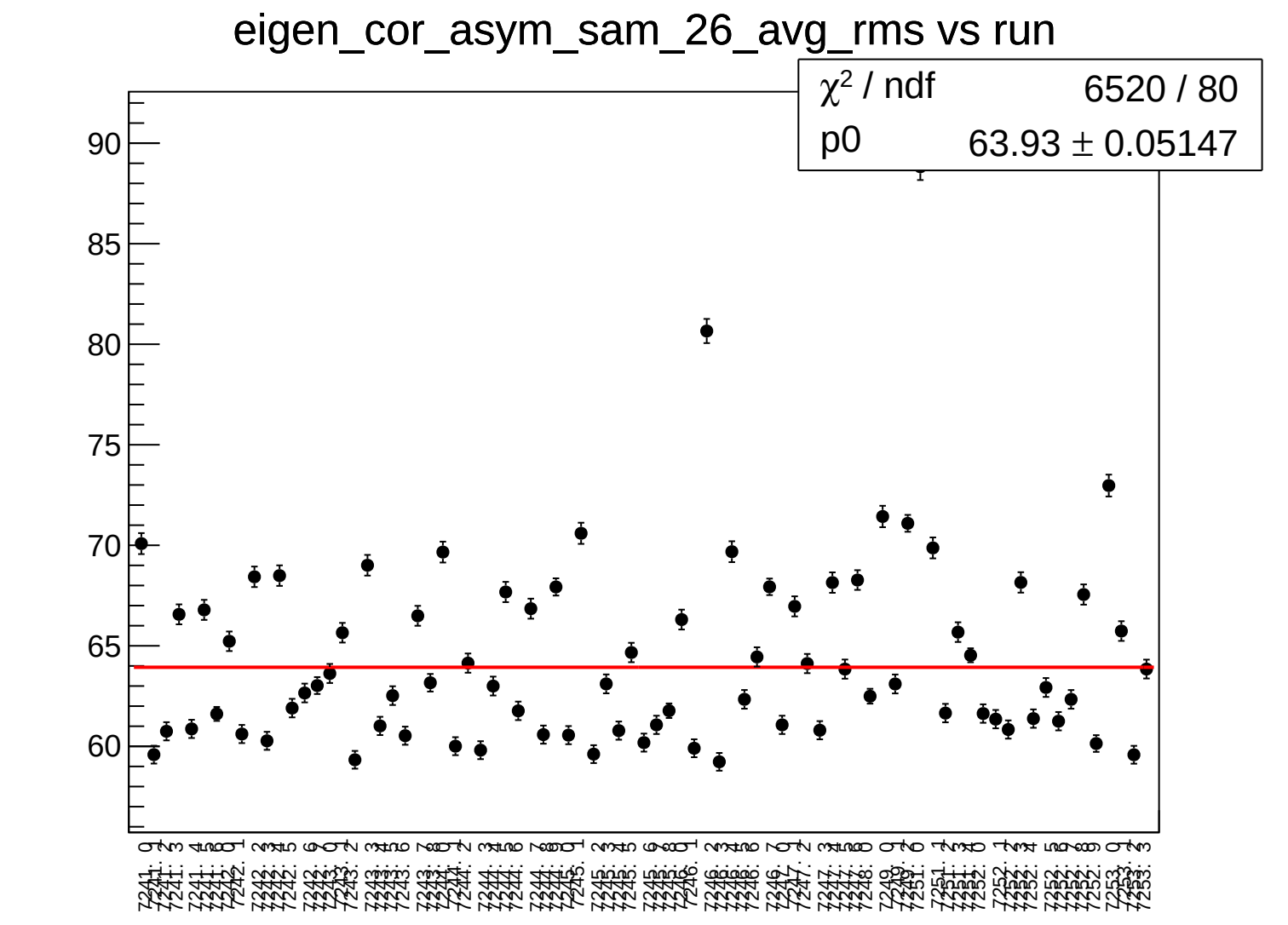

cor_asym_sam_26_avg_rms vs run
χ^2 / ndf 6520 / 80
p0 63.93 ± 0.05147
90
85
80
75
70
65
60

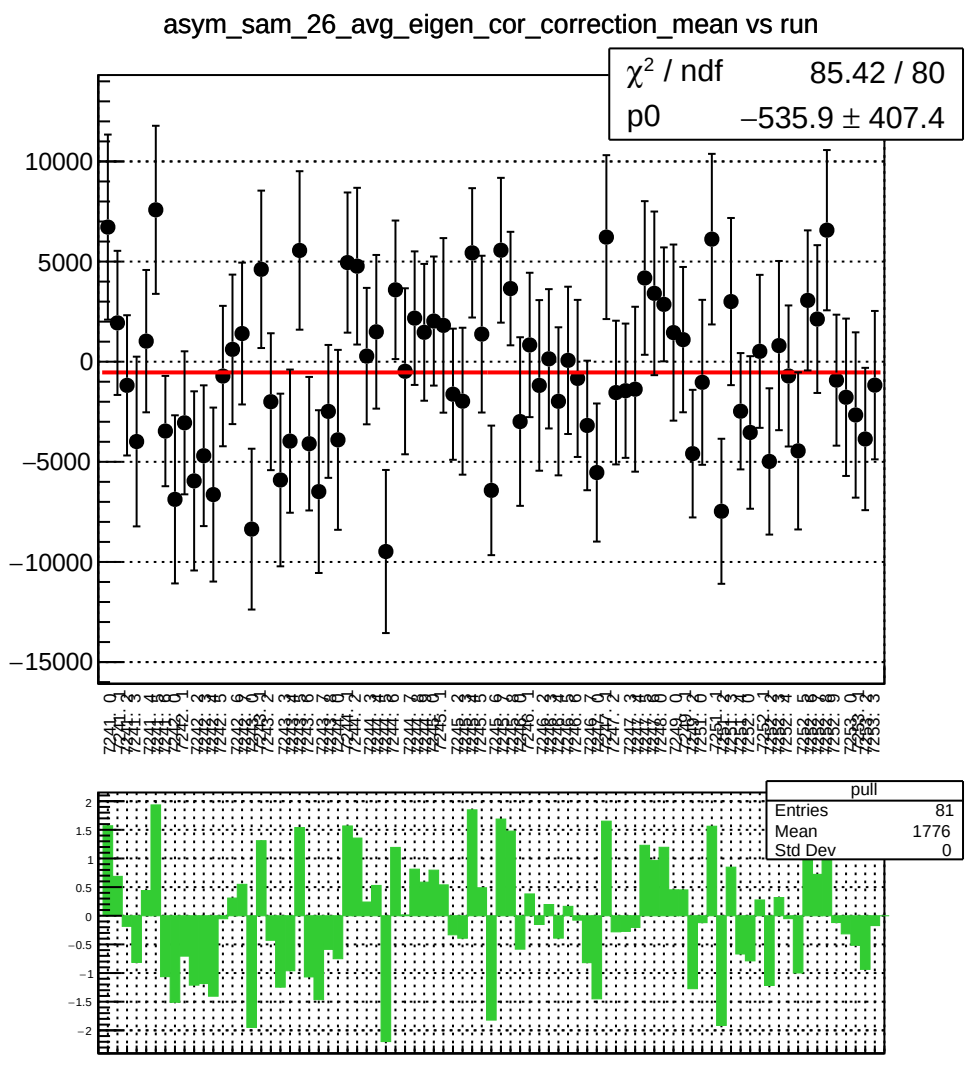

asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 85.42 / 80
p0 −535.9 ± 407.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean 1776
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

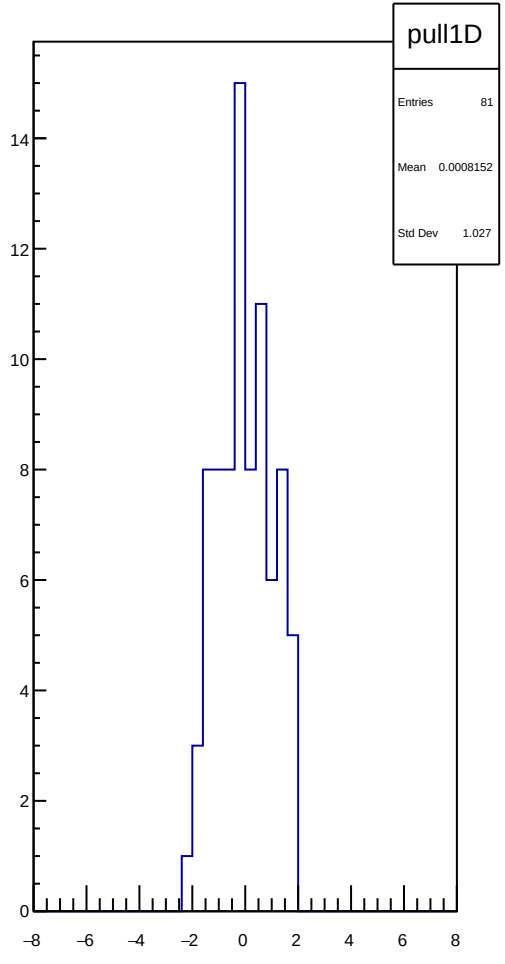

pull1D
Entries 81
Mean 0.0008152
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

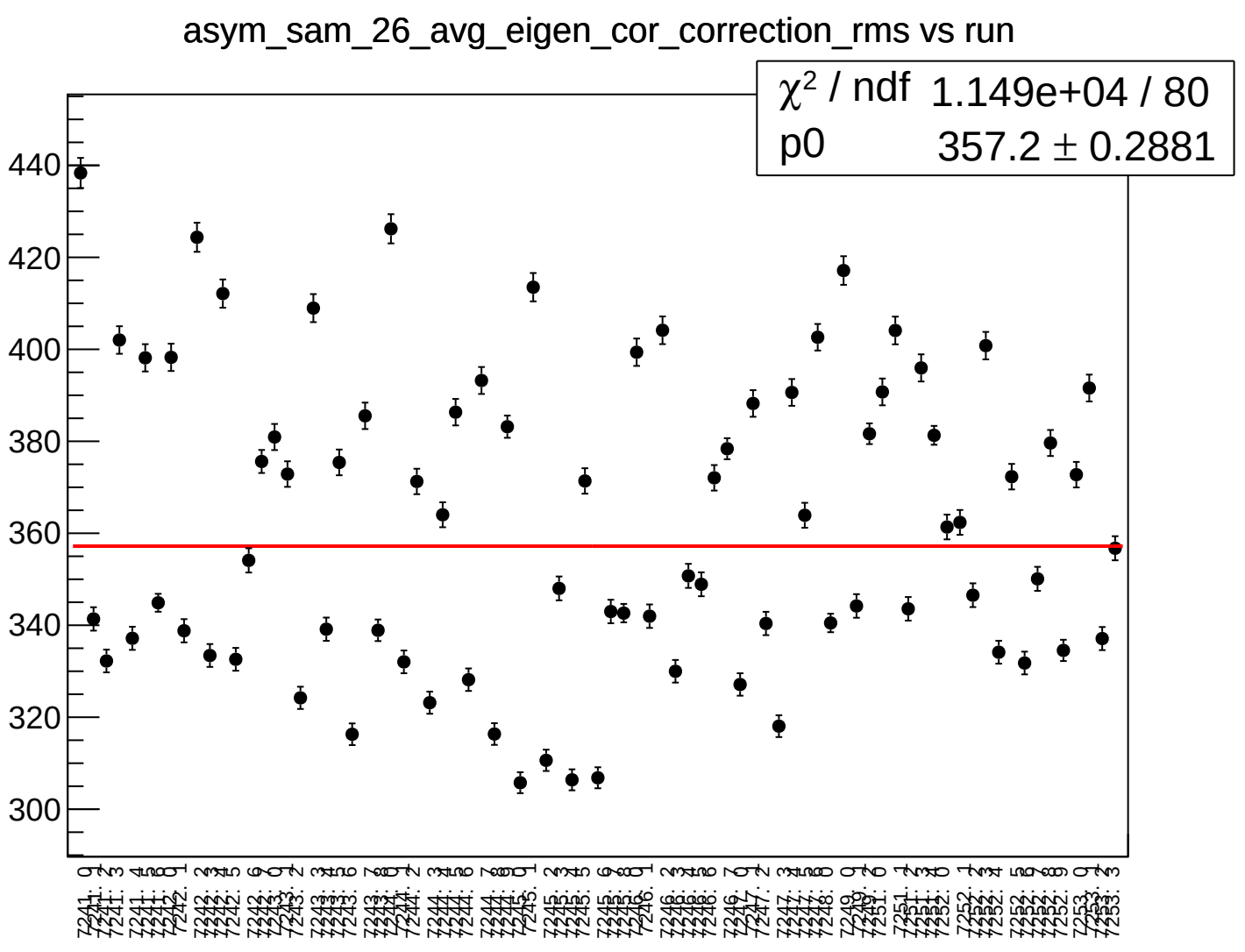

asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 1.149e+04 / 80
p0 357.2 ± 0.2881
440
420
400
380
360
340
320
300

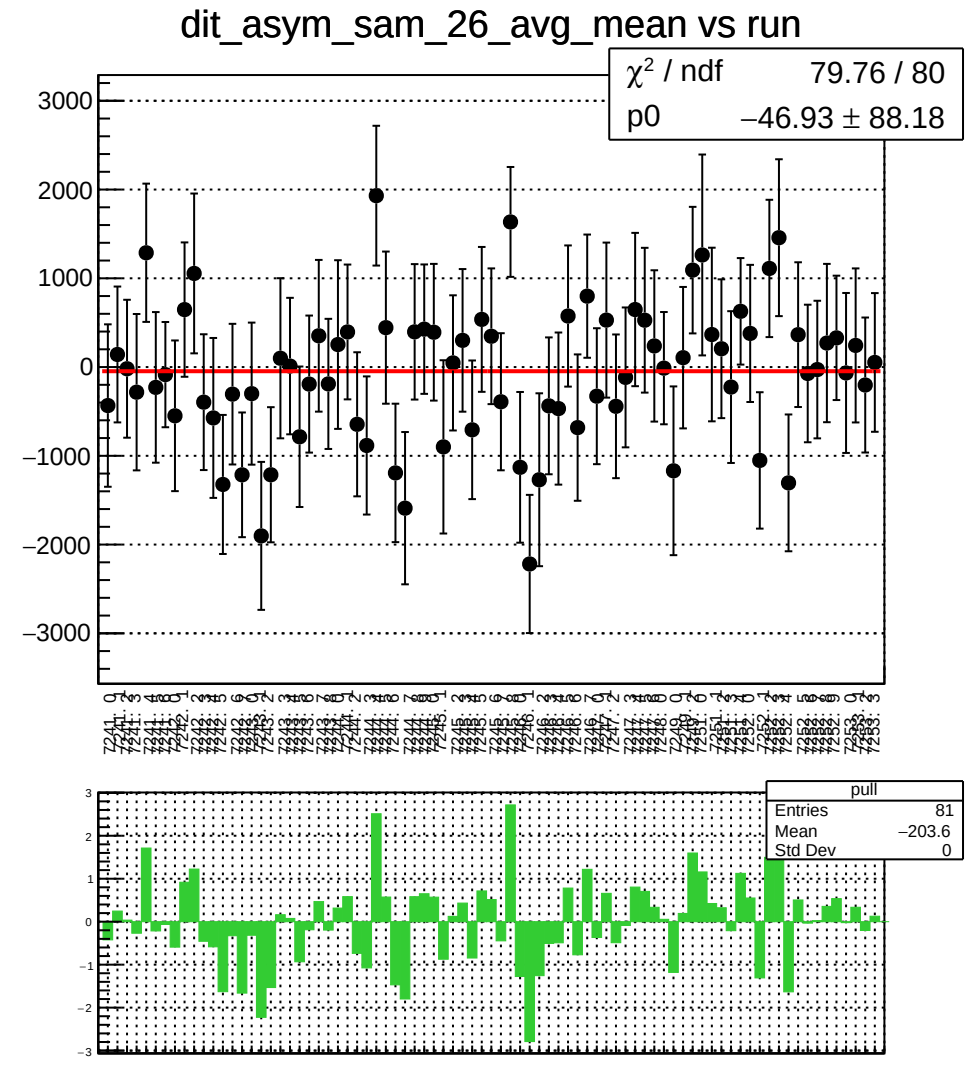

eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 78.7 / 80
p0 −111.6 ± 72.8
2000
1000
0
−1000
−2000
pull
Entries 81
Mean −485.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 81
Mean −0.01069
Std Dev 0.9857
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

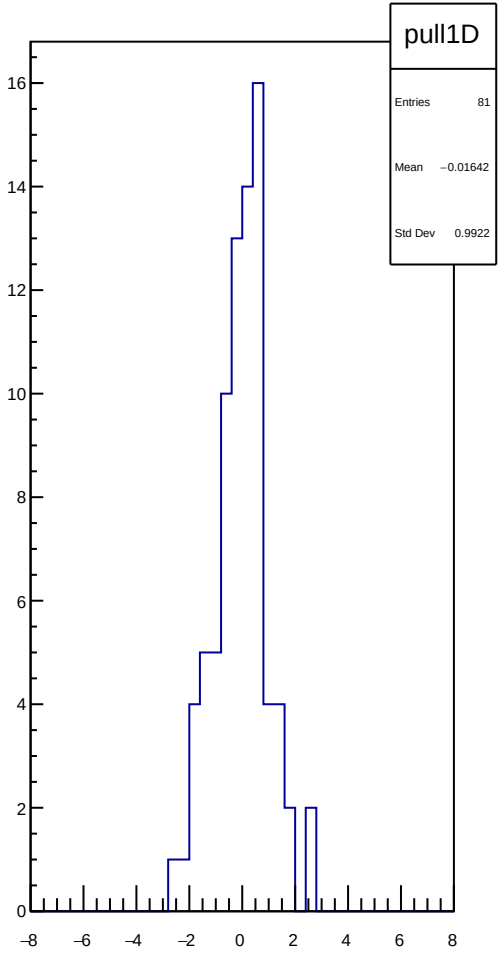

eigen_cor_asym_sam_26_avg_rms vs run
χ² / ndf 6520 / 80
p0 63.93 ± 0.05147
90
85
80
75
70
65
60

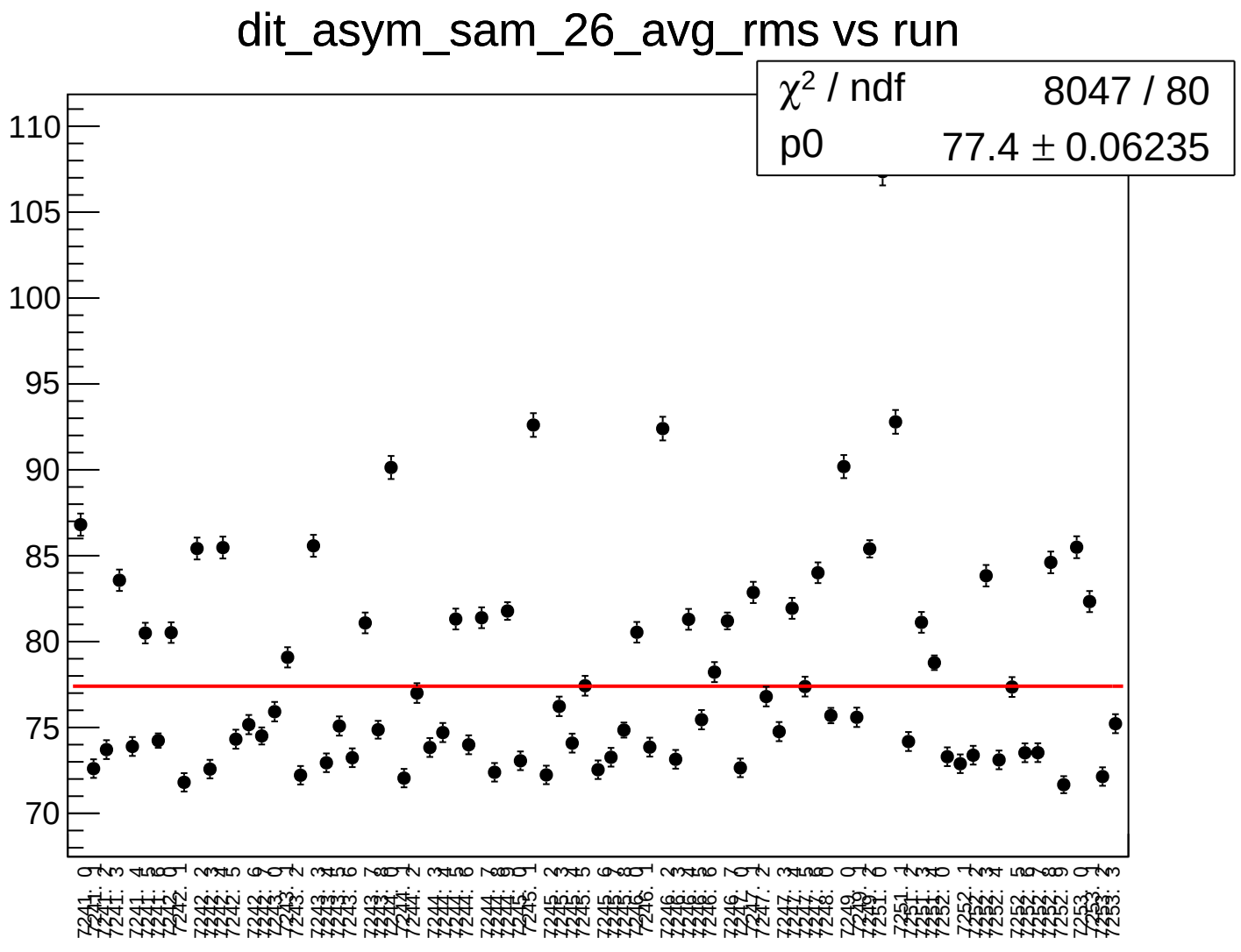

asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 85.42 / 80
p0 −535.9 ± 407.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean 1776
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

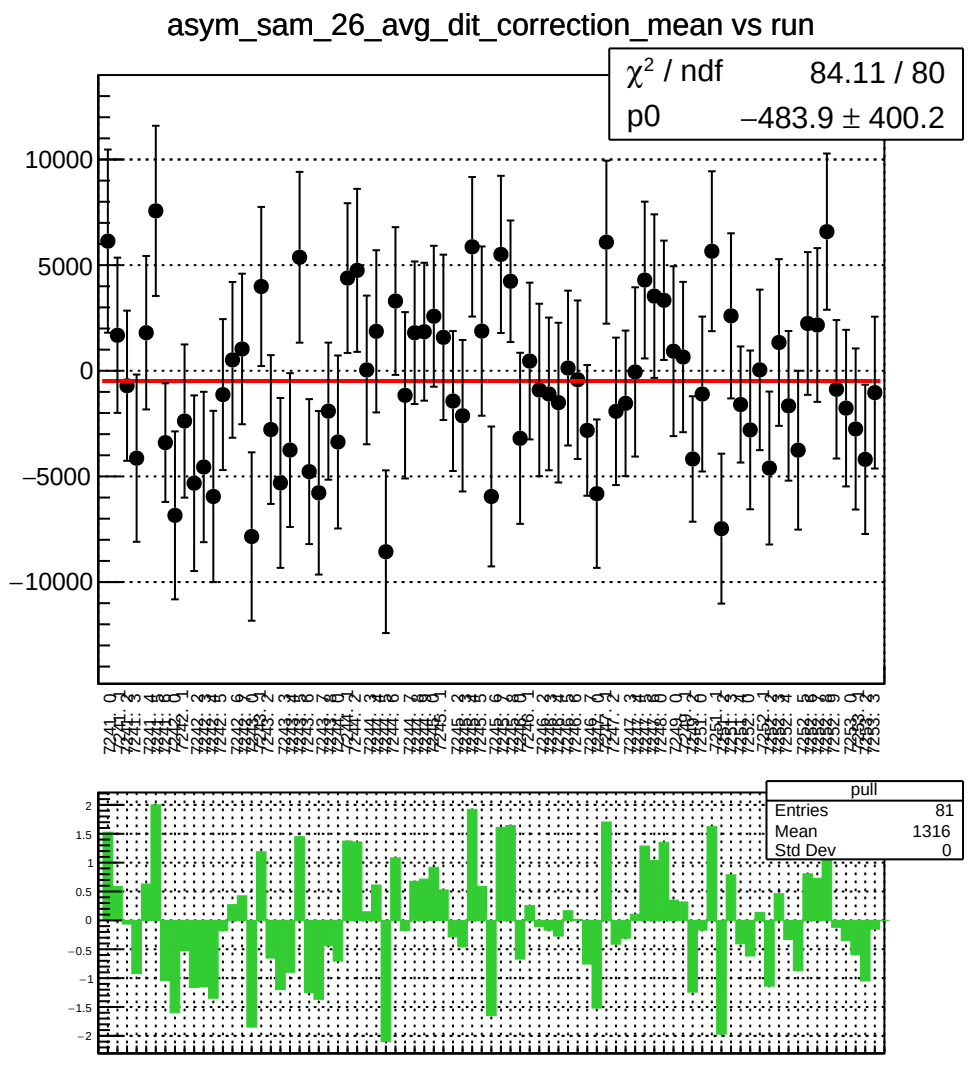

pull1D
Entries 81
Mean 0.0008152
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

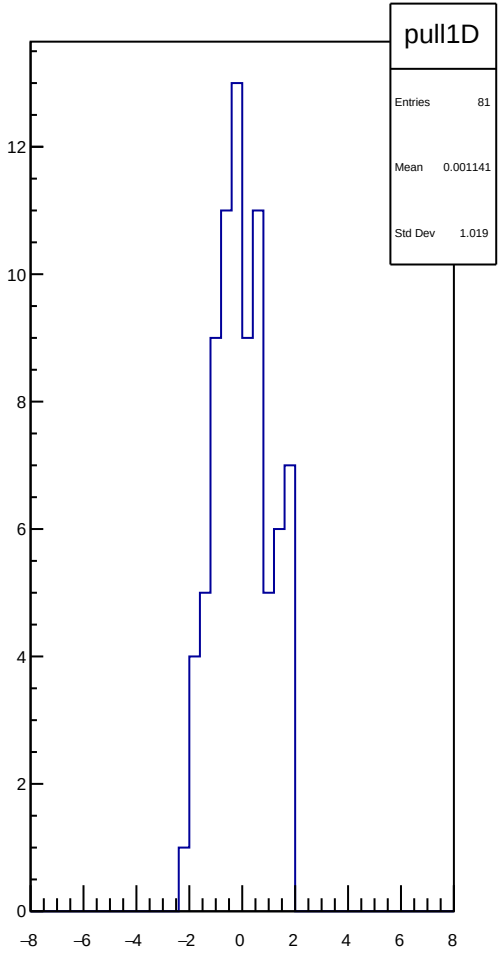

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.149e+04 / 80
p0 357.2 ± 0.2881
440
420
400
380
360
340
320
300

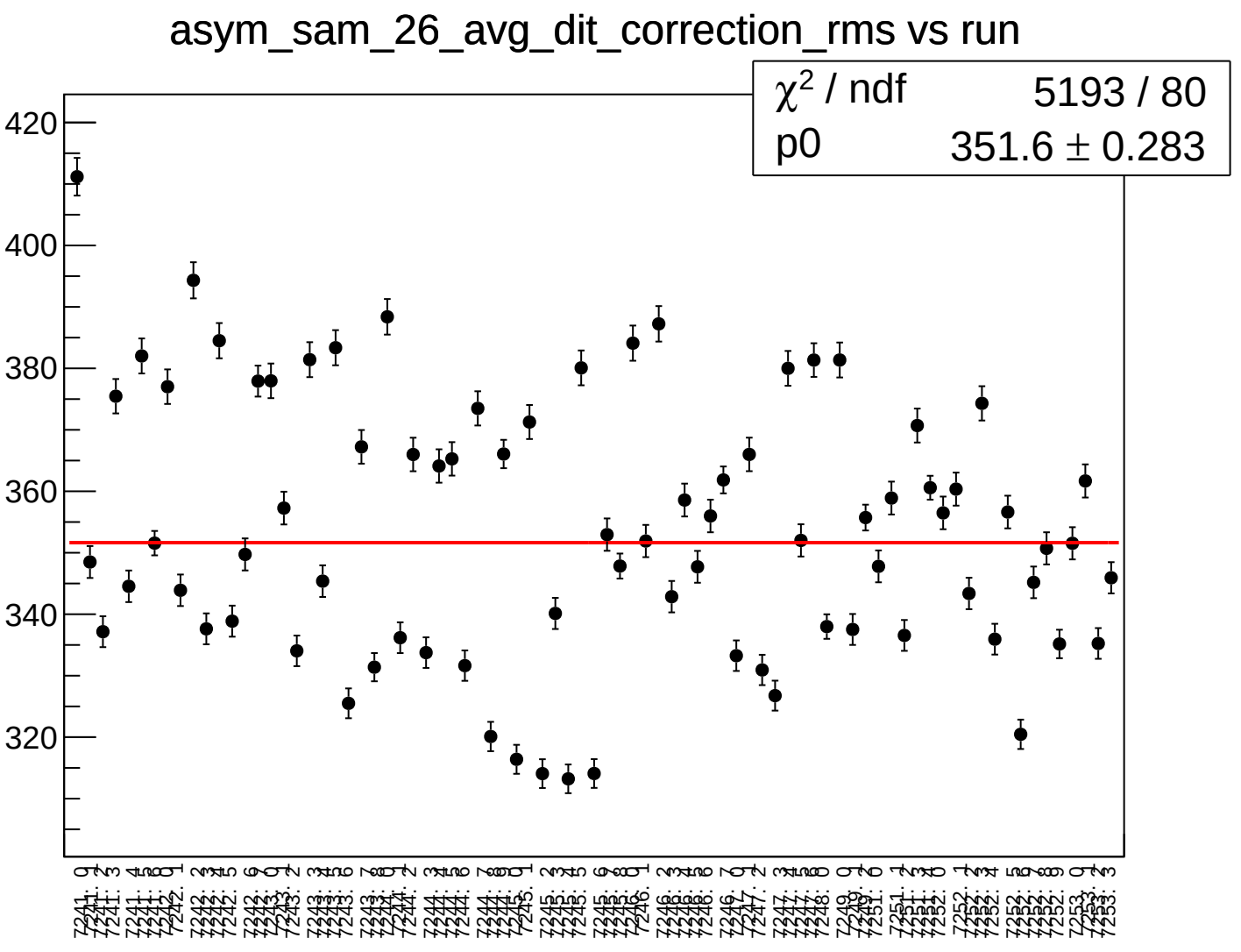

dit_asym_sam_26_avg_mean vs run
χ² / ndf 79.76 / 80
p0 −46.93 ± 88.18
pull
Entries 81
Mean −203.6
Std Dev 0

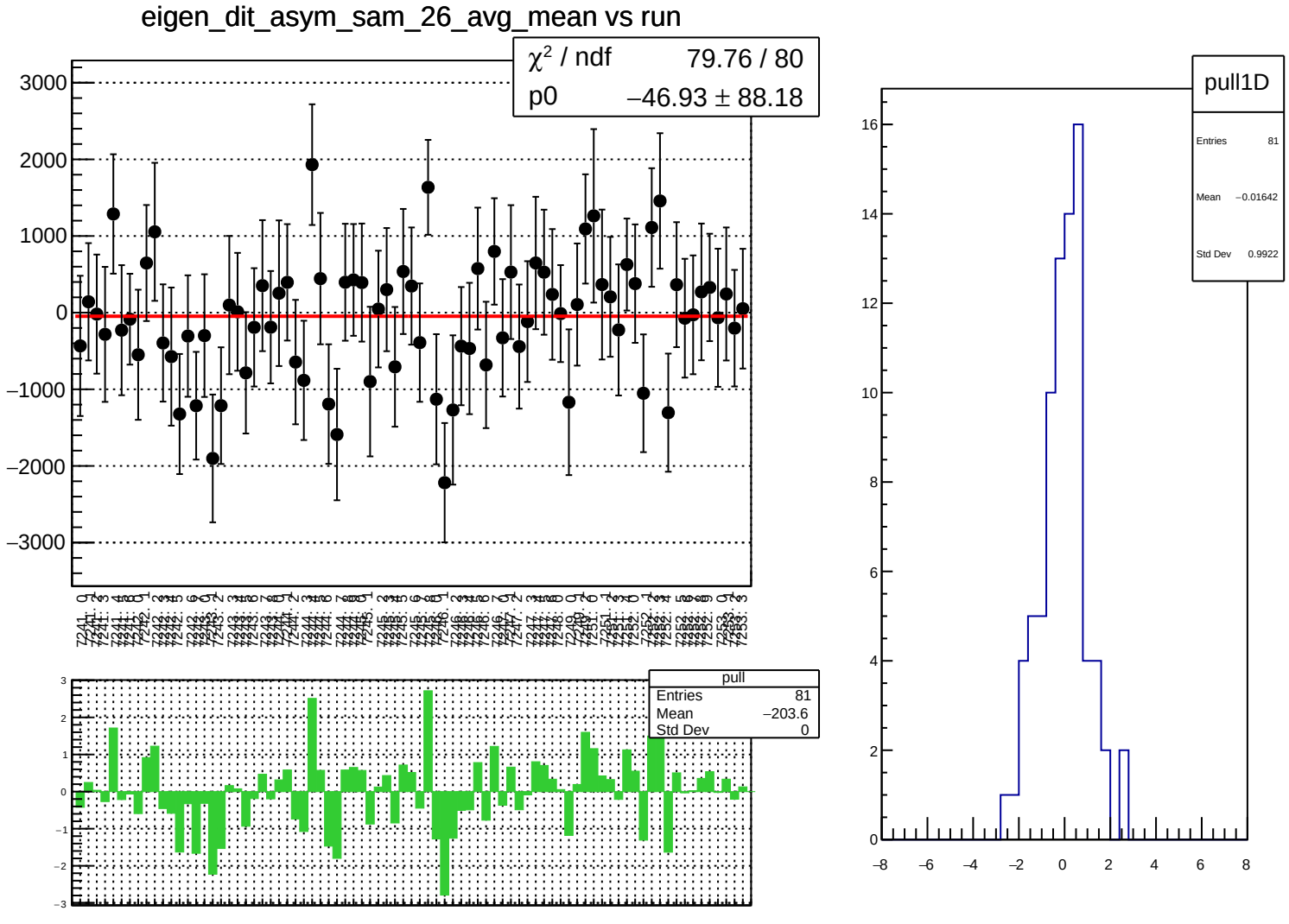

pull1D
Entries 81
Mean −0.01642
Std Dev 0.9922

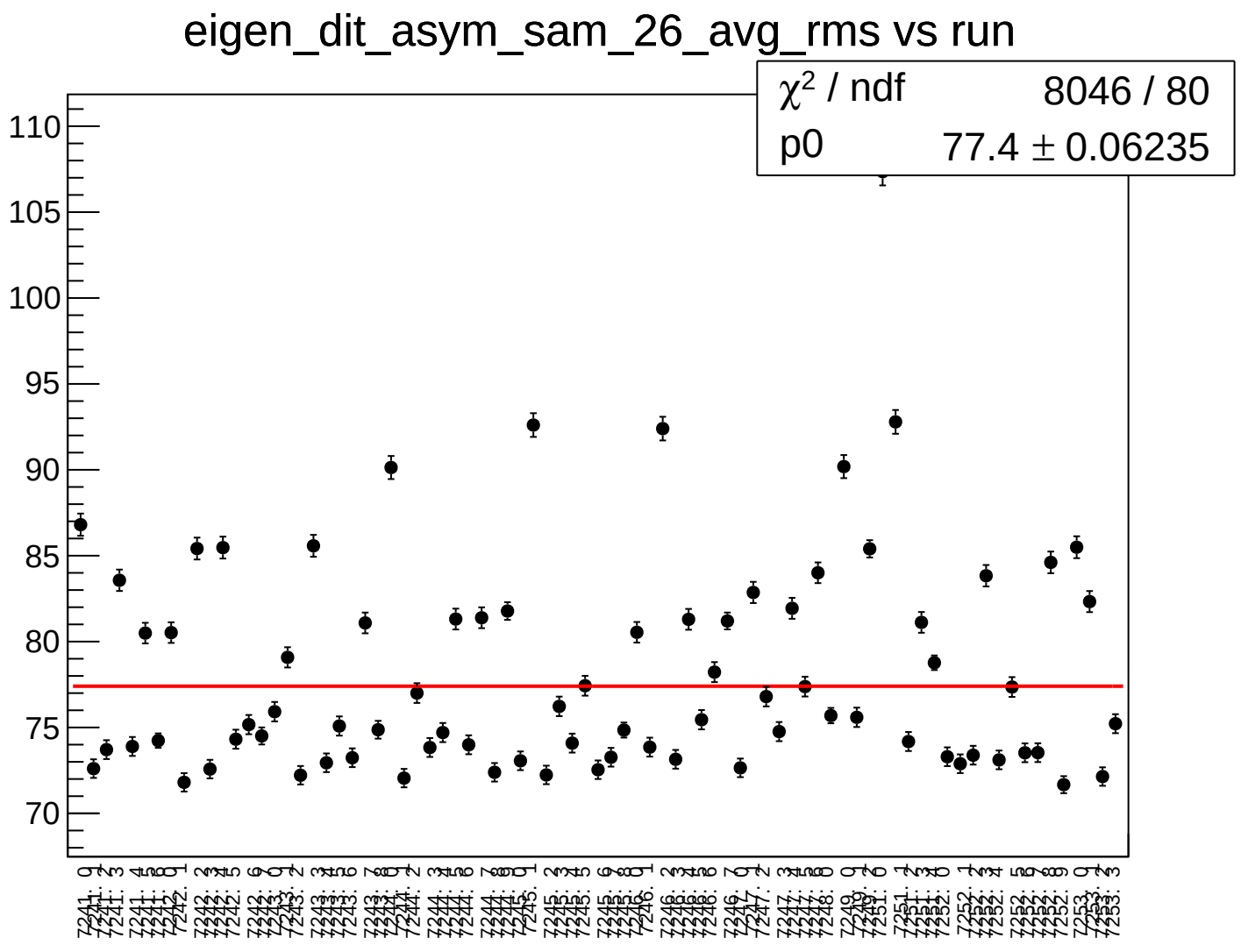

dit_asym_sam_26_avg_rms vs run
χ² / ndf 8047 / 80
p0 77.4 ± 0.06235
110
105
100
95
90
85
80
75
70

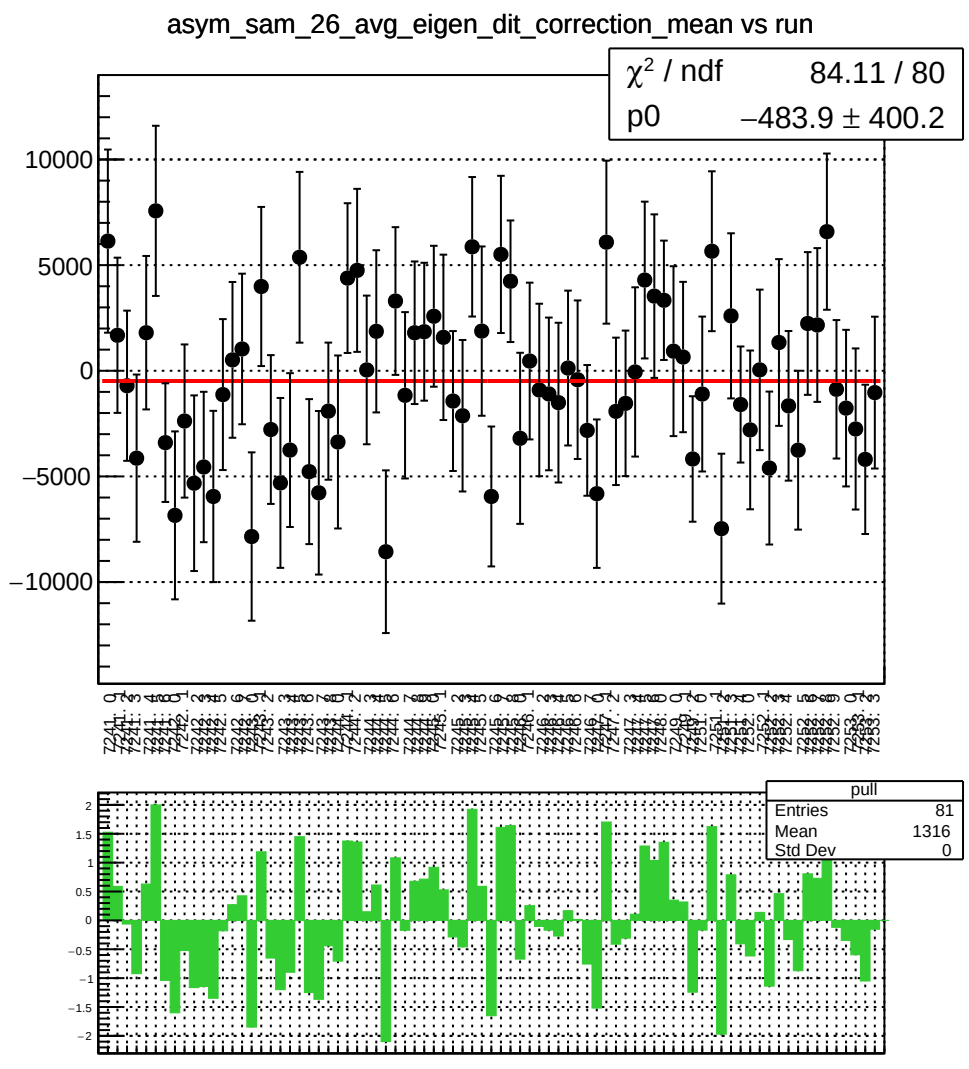

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 84.11 / 80
p0 −483.9 ± 400.2
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 1316
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

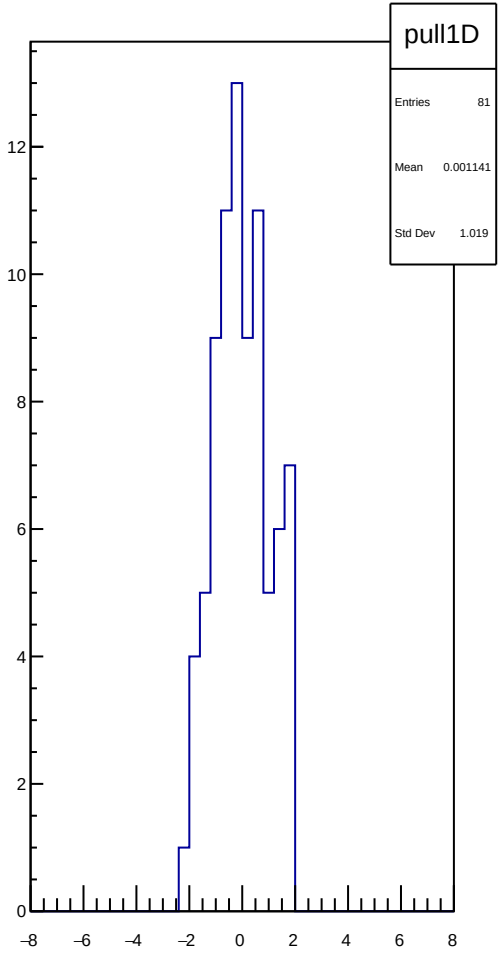

pull1D
Entries 81
Mean 0.001141
Std Dev 1.019
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

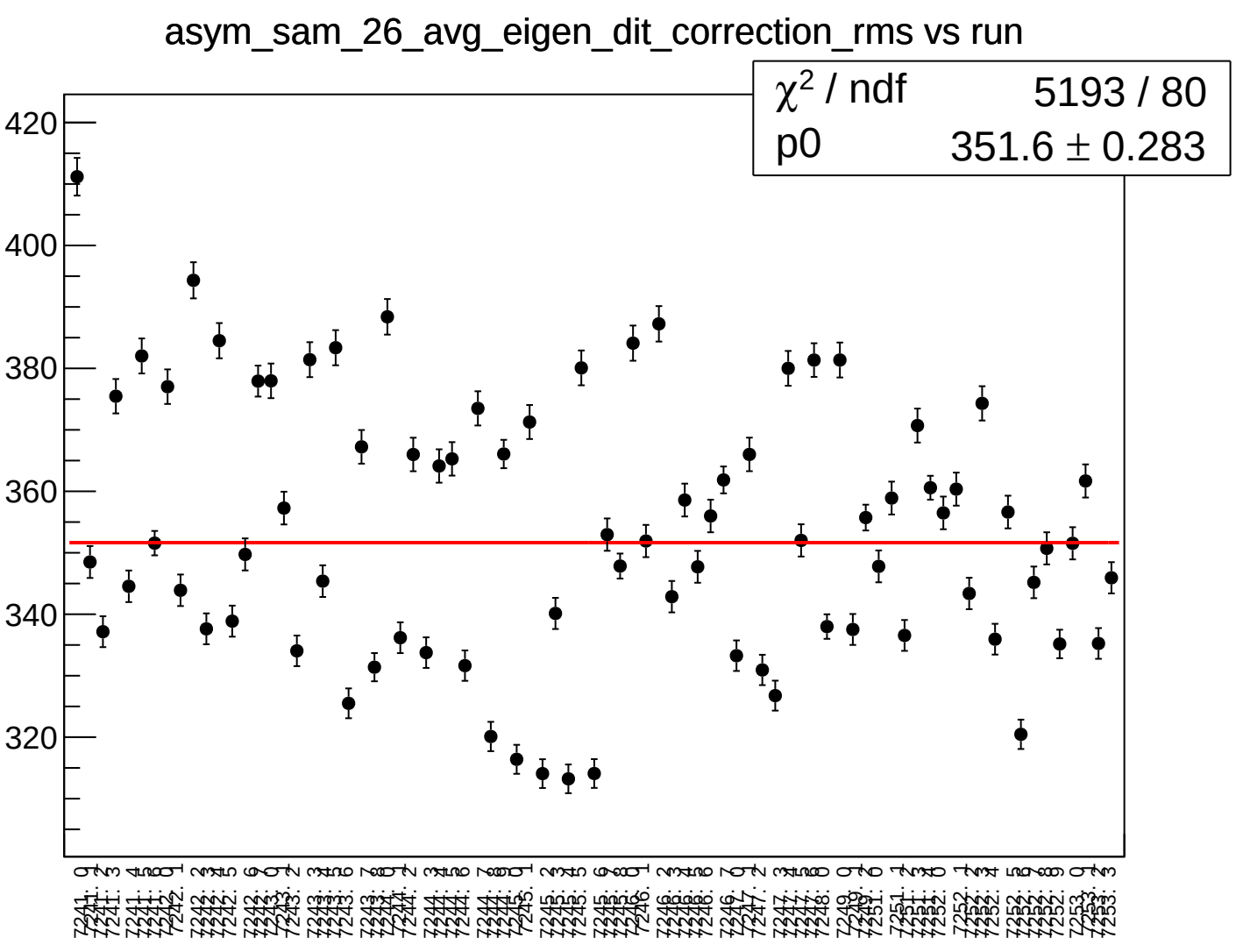

asym_sam_26_avg_dit_correction_rms vs run
χ^2 / ndf 5193 / 80
p0 351.6 ± 0.283
420
400
380
360
340
320

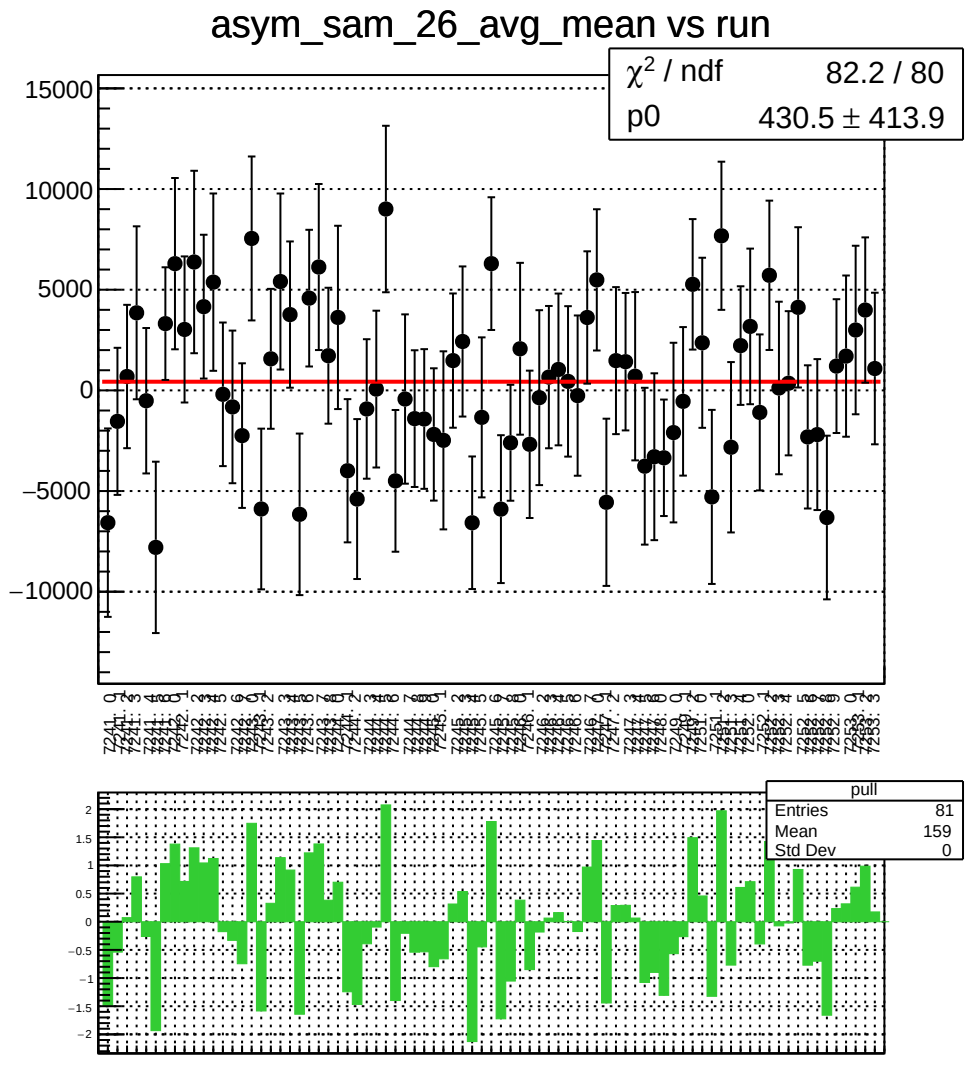

eigen_dit_asym_sam_26_avg_mean vs run
χ² / ndf 79.76 / 80
p0 −46.93 ± 88.18
pull
Entries 81
Mean −203.6
Std Dev 0
pull1D
Entries 81
Mean −0.01642
Std Dev 0.9922

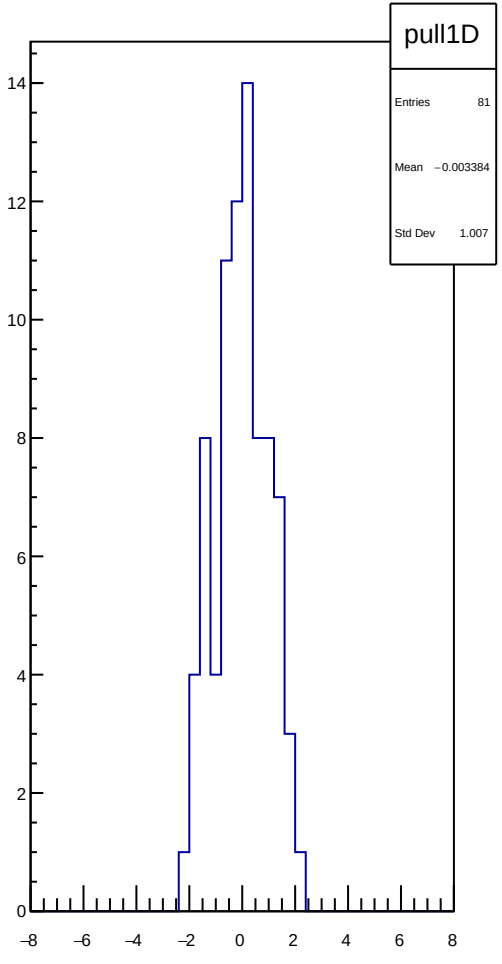

eigen_dit_asym_sam_26_avg_rms vs run
χ² / ndf 8046 / 80
p0 77.4 ± 0.06235
110
105
100
95
90
85
80
75
70

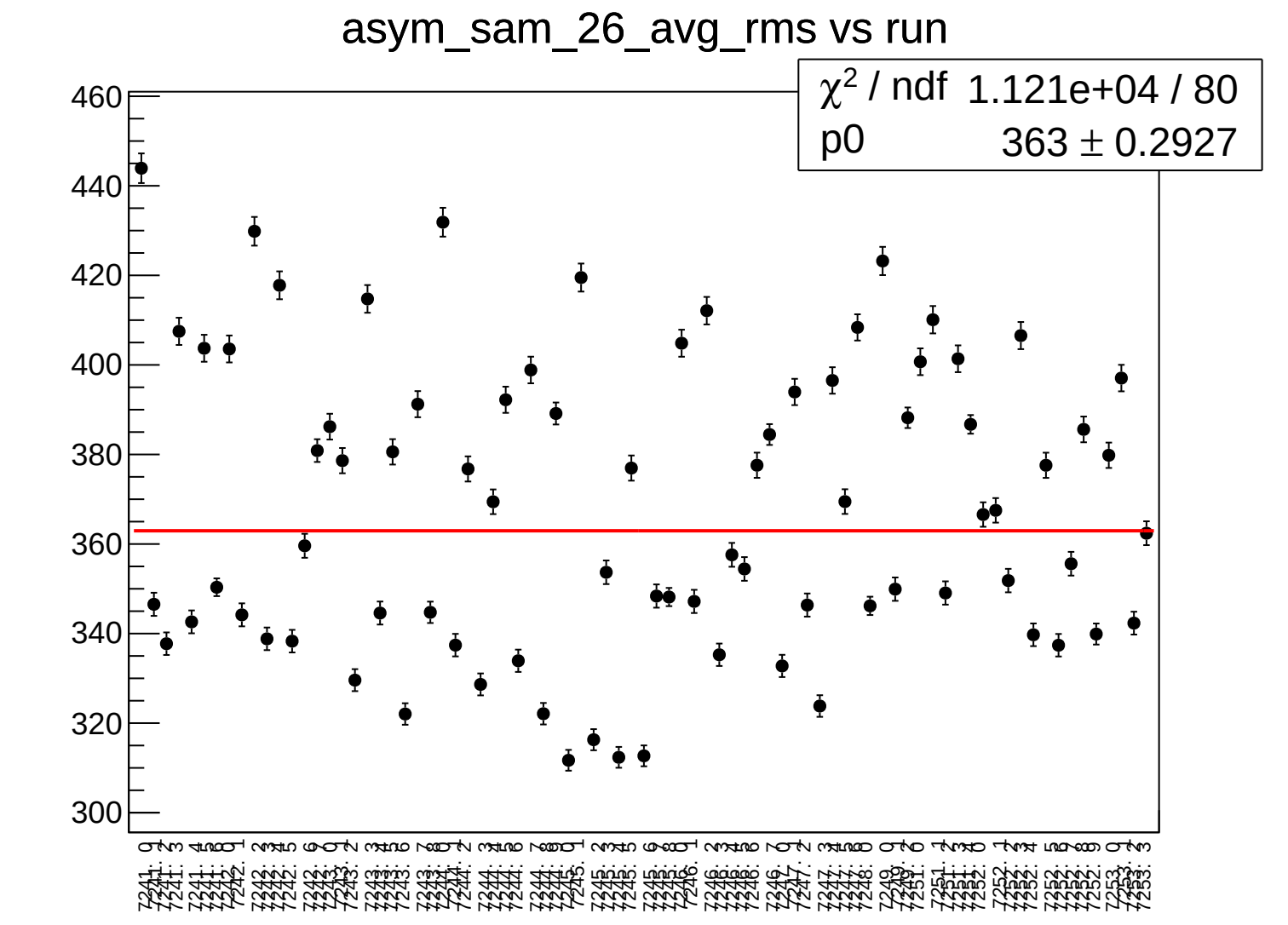

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 84.11 / 80
p0 −483.9 ± 400.2
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 1316
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

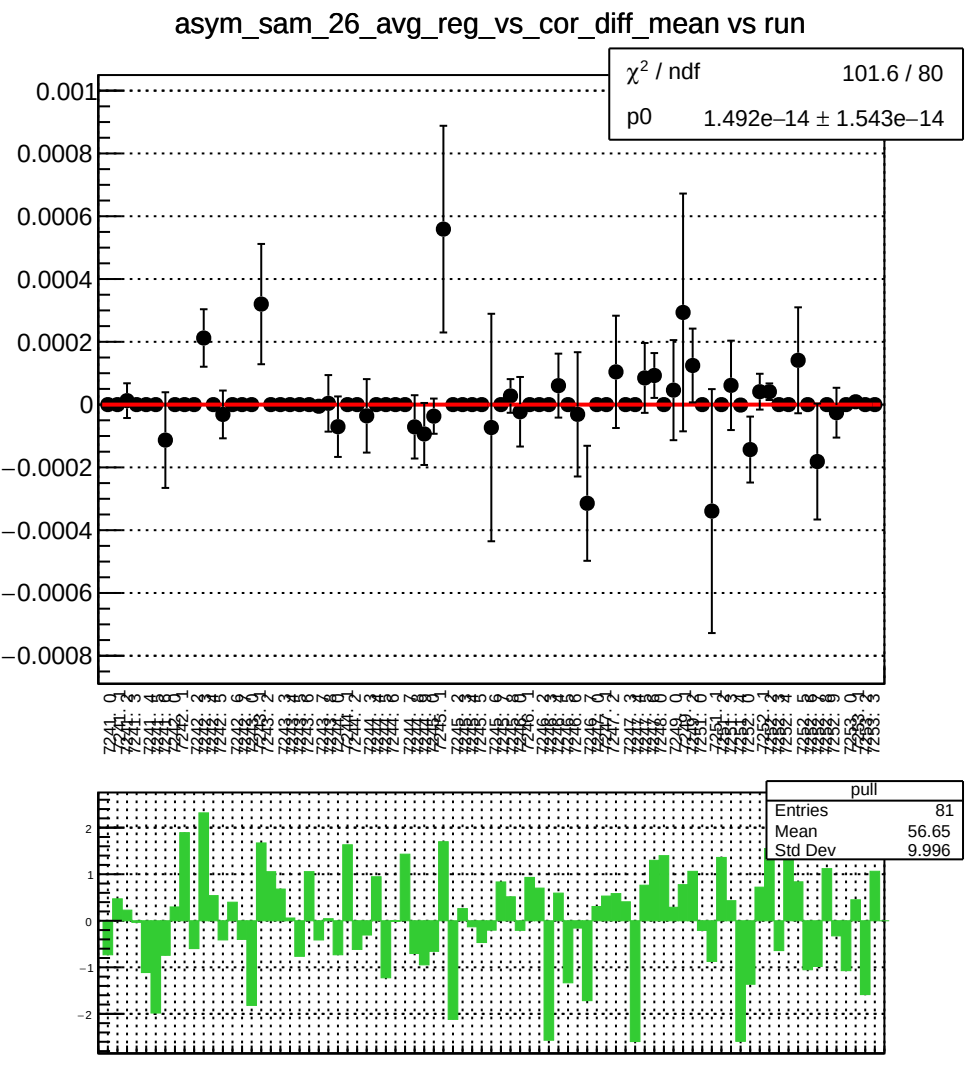

pull1D
Entries 81
Mean 0.001141
Std Dev 1.019
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

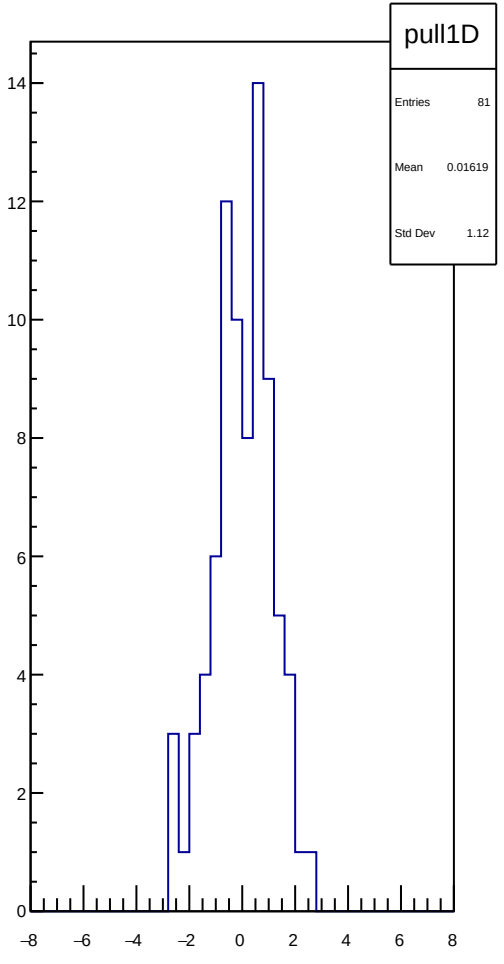

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 5193 / 80
p0 351.6 ± 0.283
420
400
380
360
340
320

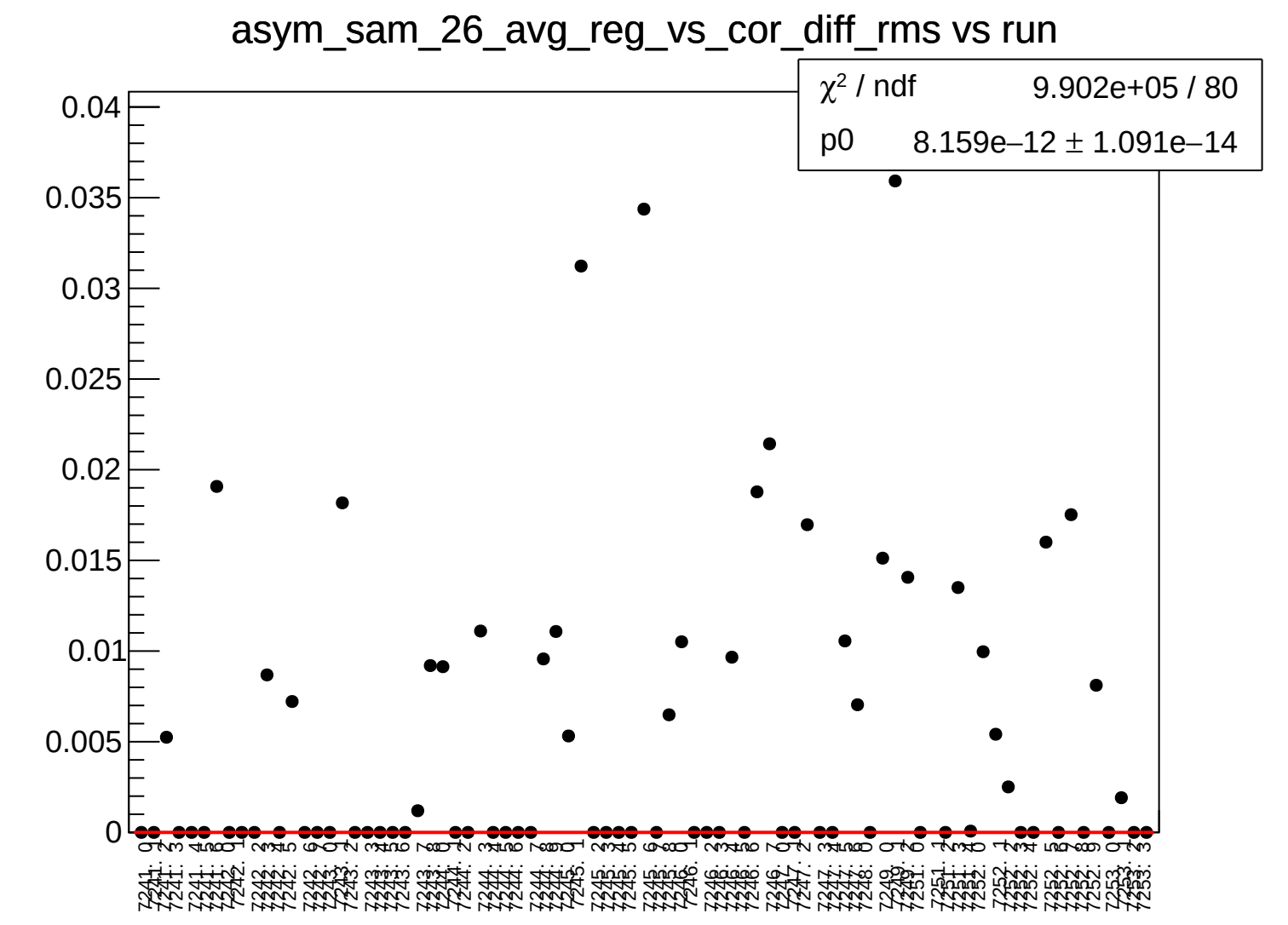

asym_sam_26_avg_mean vs run
χ² / ndf 82.2 / 80
p0 430.5 ± 413.9
15000
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 159
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

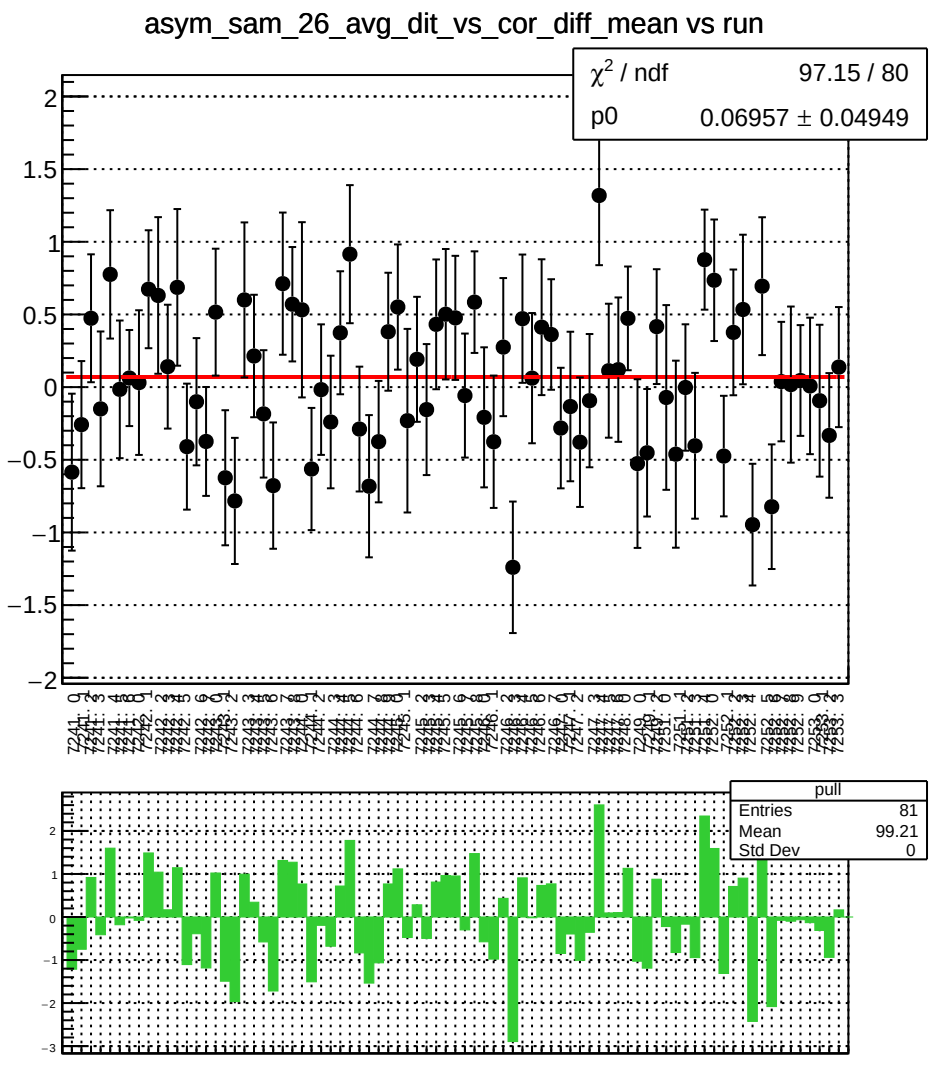

pull1D
Entries 81
Mean −0.003384
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

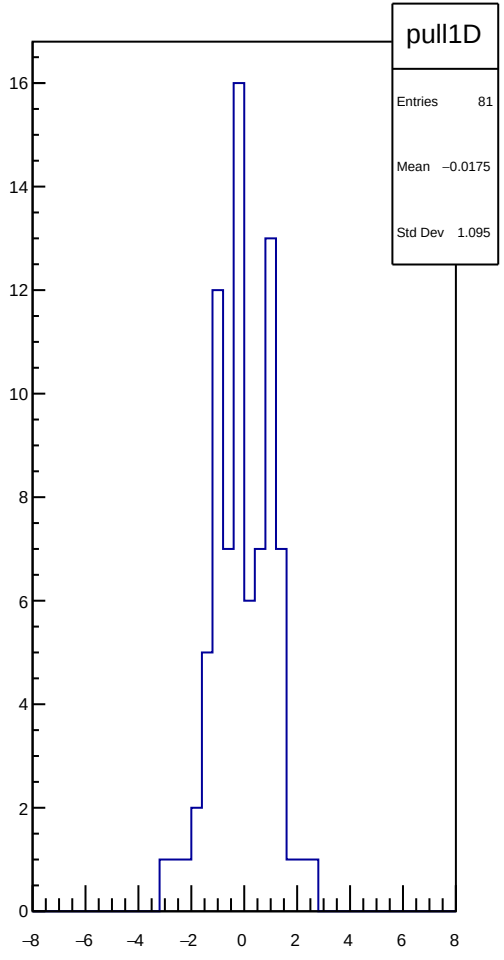

asym_sam_26_avg_rms vs run
χ² / ndf 1.121e+04 / 80
p0 363 ± 0.2927
460
440
420
400
380
360
340
320
300

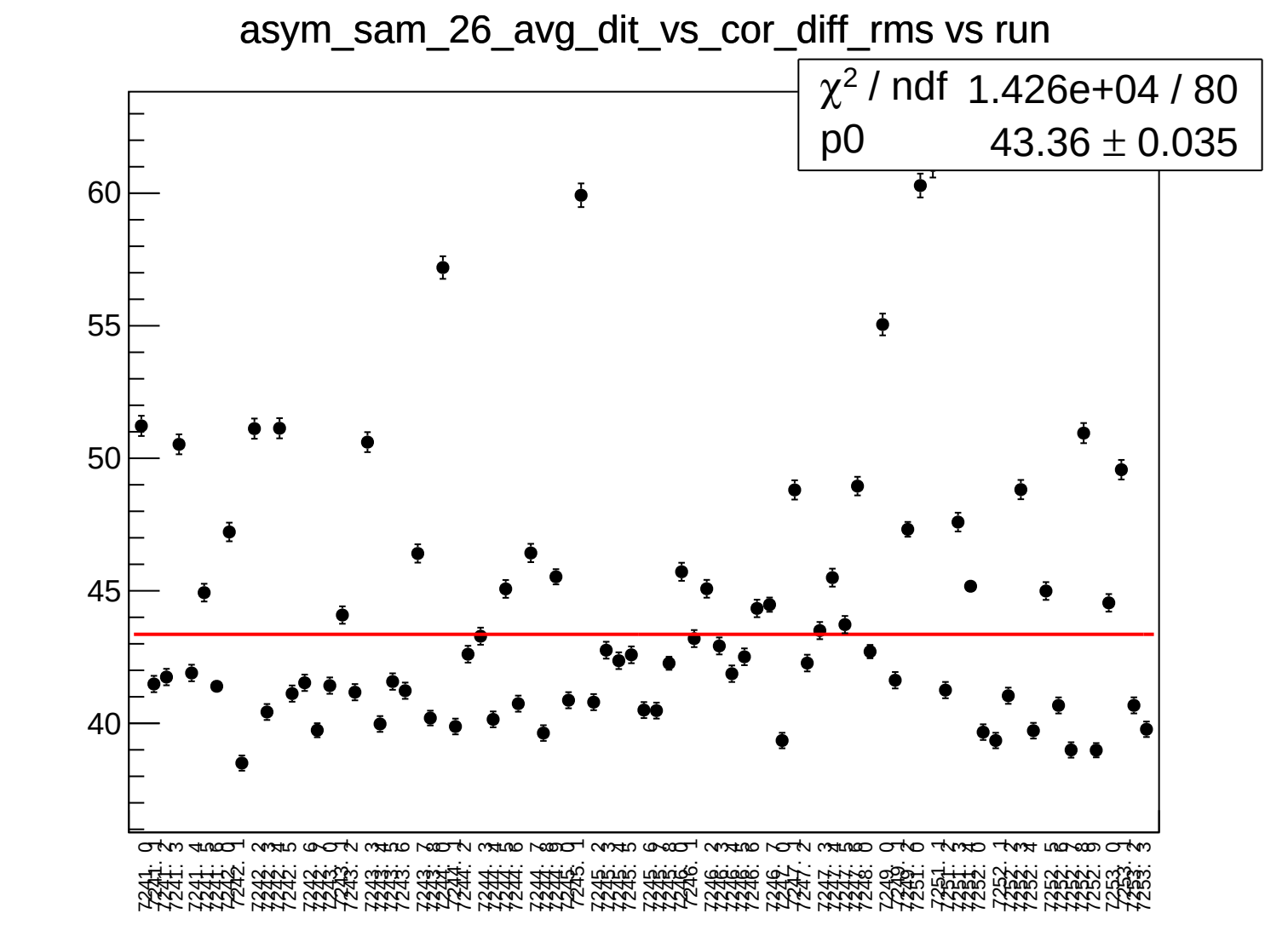

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 101.6 / 80
p0 1.492e−14 ± 1.543e−14
pull
Entries 81
Mean 56.65
Std Dev 9.996

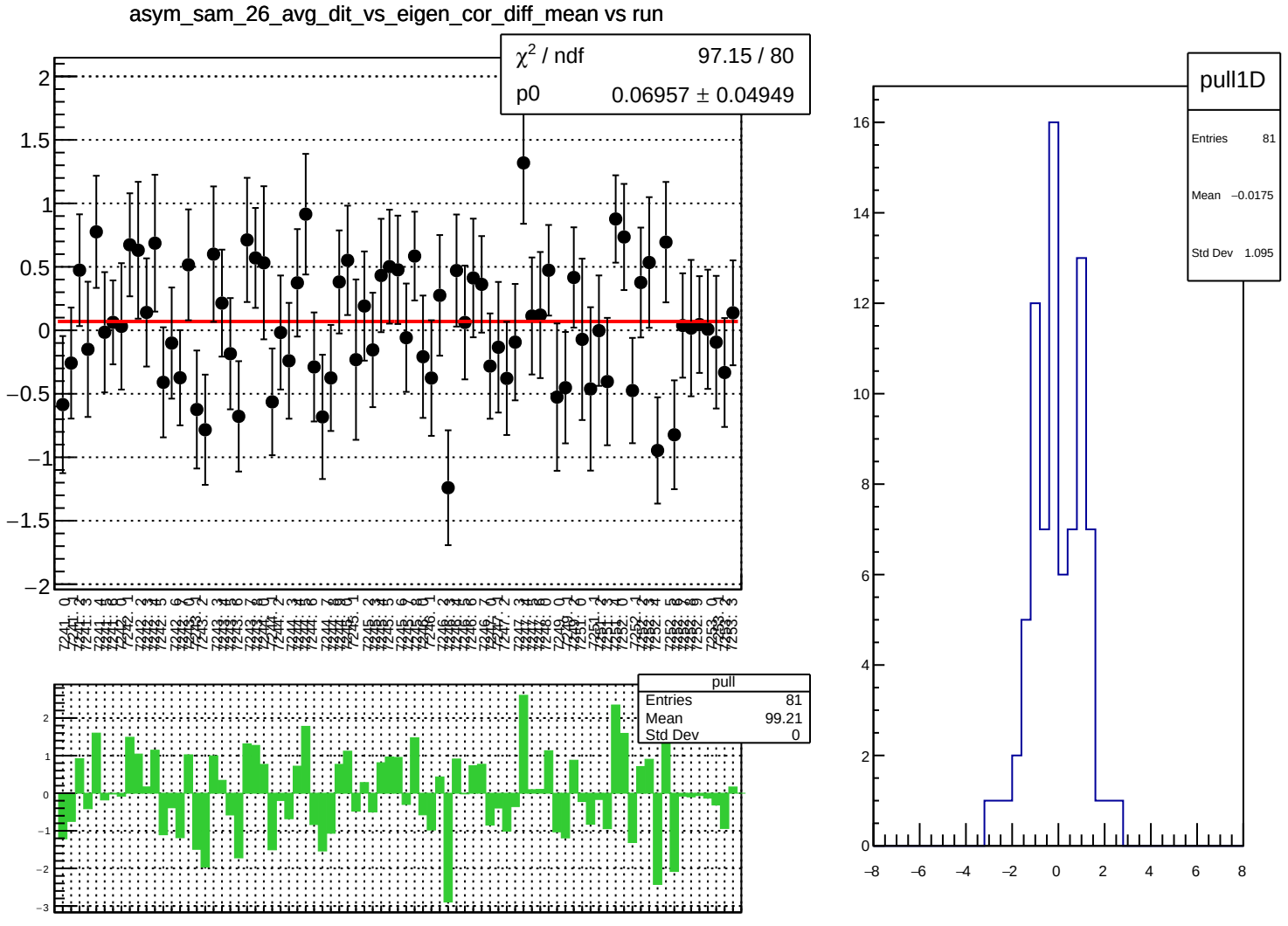

pull1D
Entries 81
Mean 0.01619
Std Dev 1.12

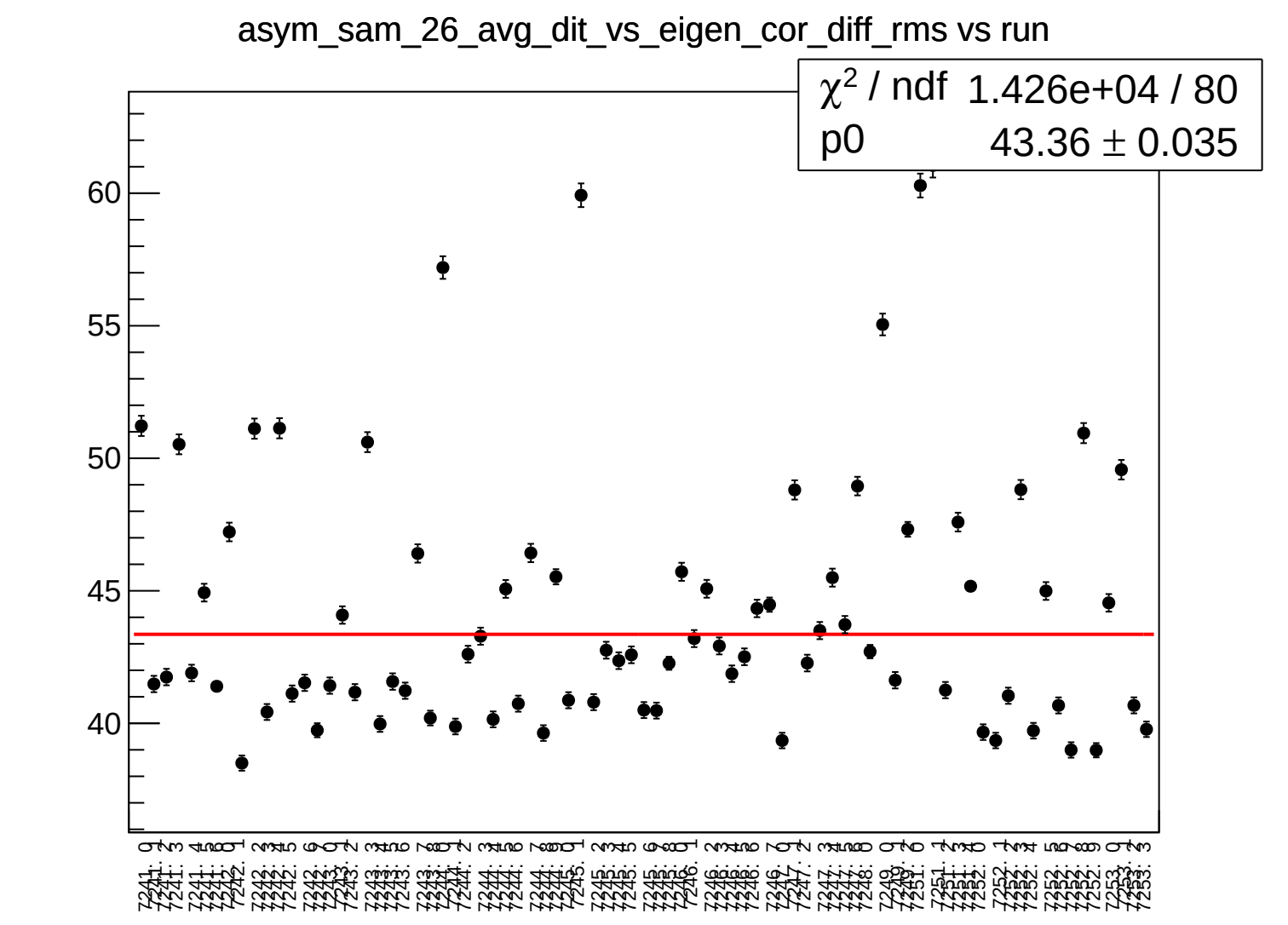

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.902e+05 / 80
p0 8.159e−12 ± 1.091e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

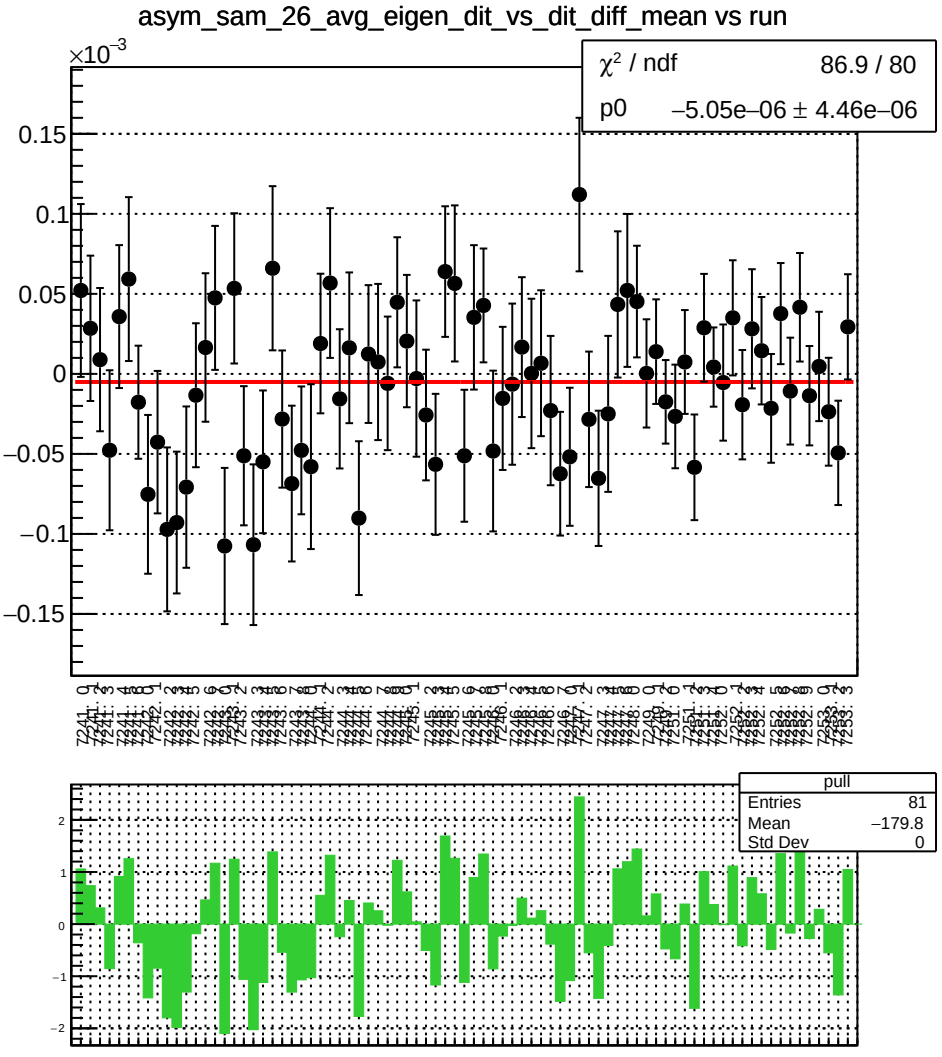

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 97.15 / 80
p0 0.06957 ± 0.04949
pull
Entries 81
Mean 99.21
Std Dev 0

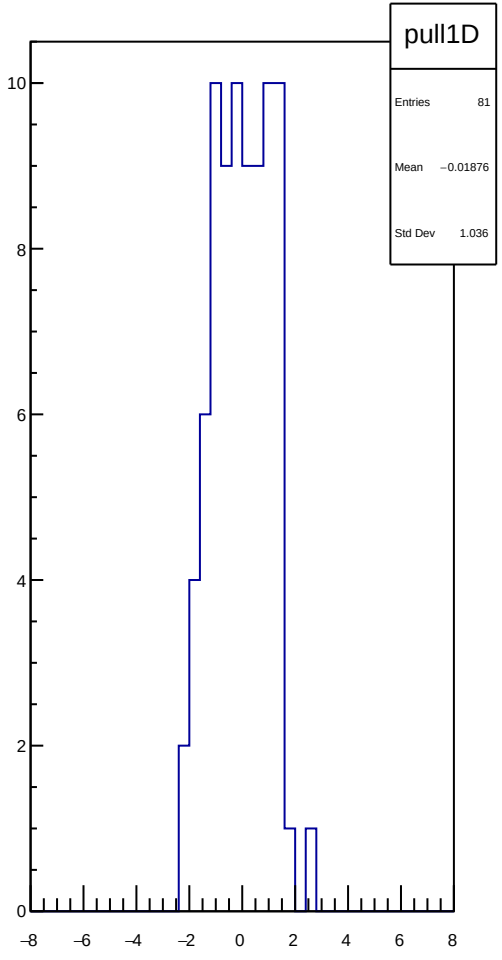

pull1D
Entries 81
Mean −0.0175
Std Dev 1.095

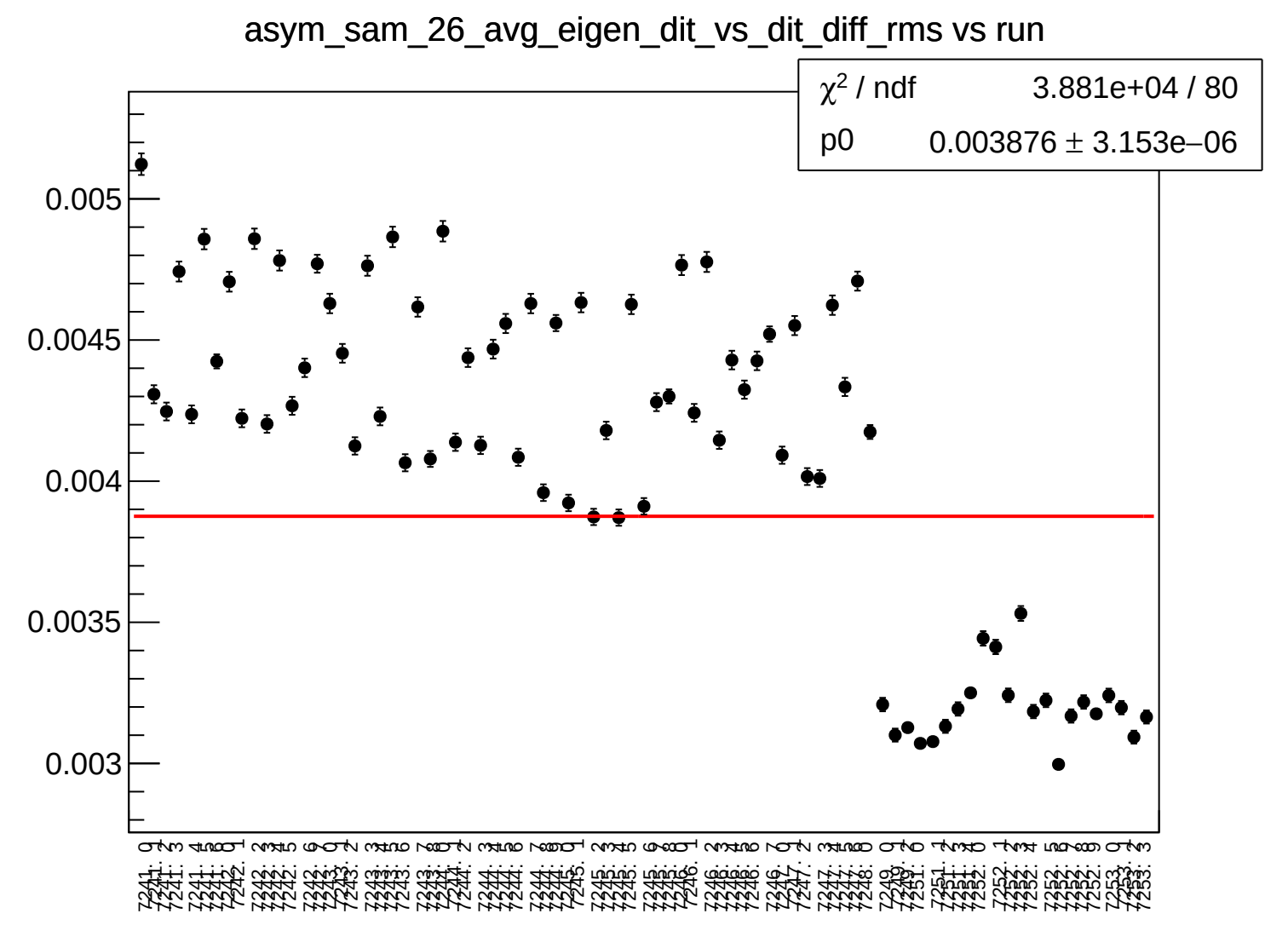

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.426e+04 / 80
p0 43.36 ± 0.035
60
55
50
45
40

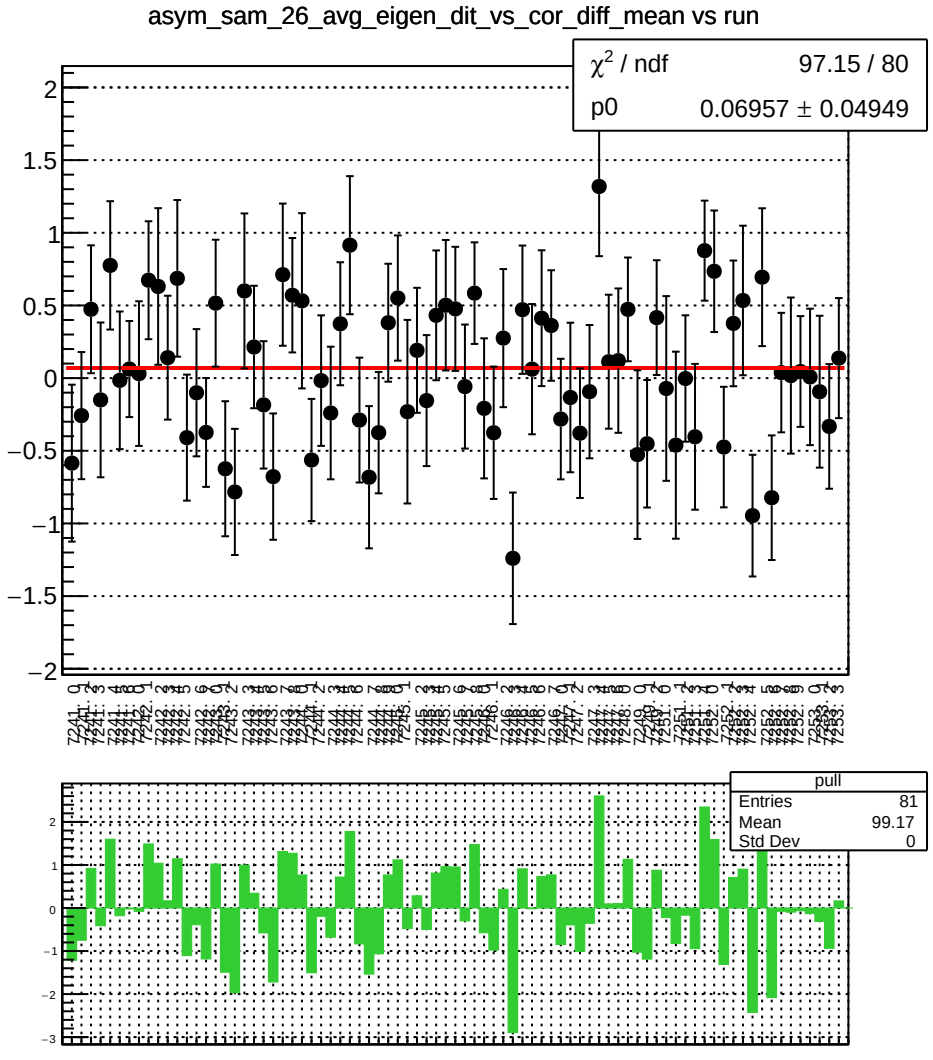

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.15 / 80
p0 0.06957 ± 0.04949
pull
Entries 81
Mean 99.21
Std Dev 0
pull1D
Entries 81
Mean −0.0175
Std Dev 1.095

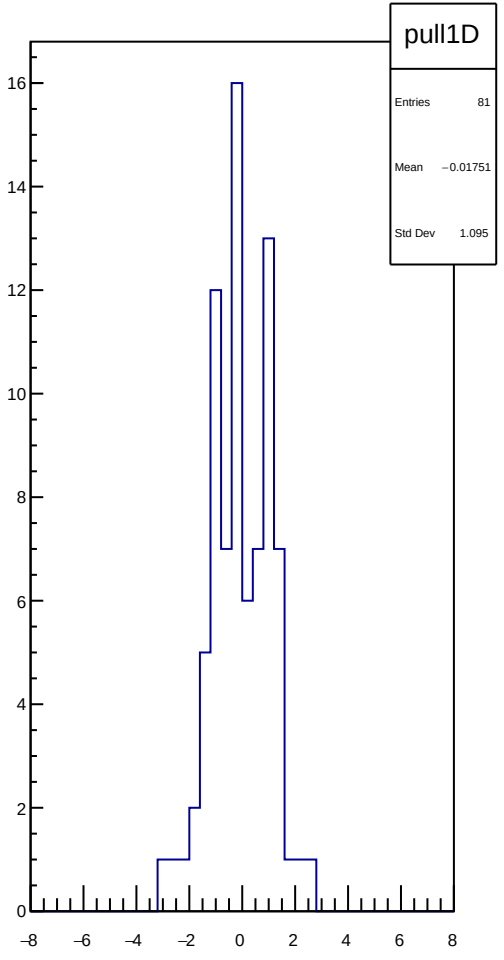

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.426e+04 / 80
p0 43.36 ± 0.035
60
55
50
45
40

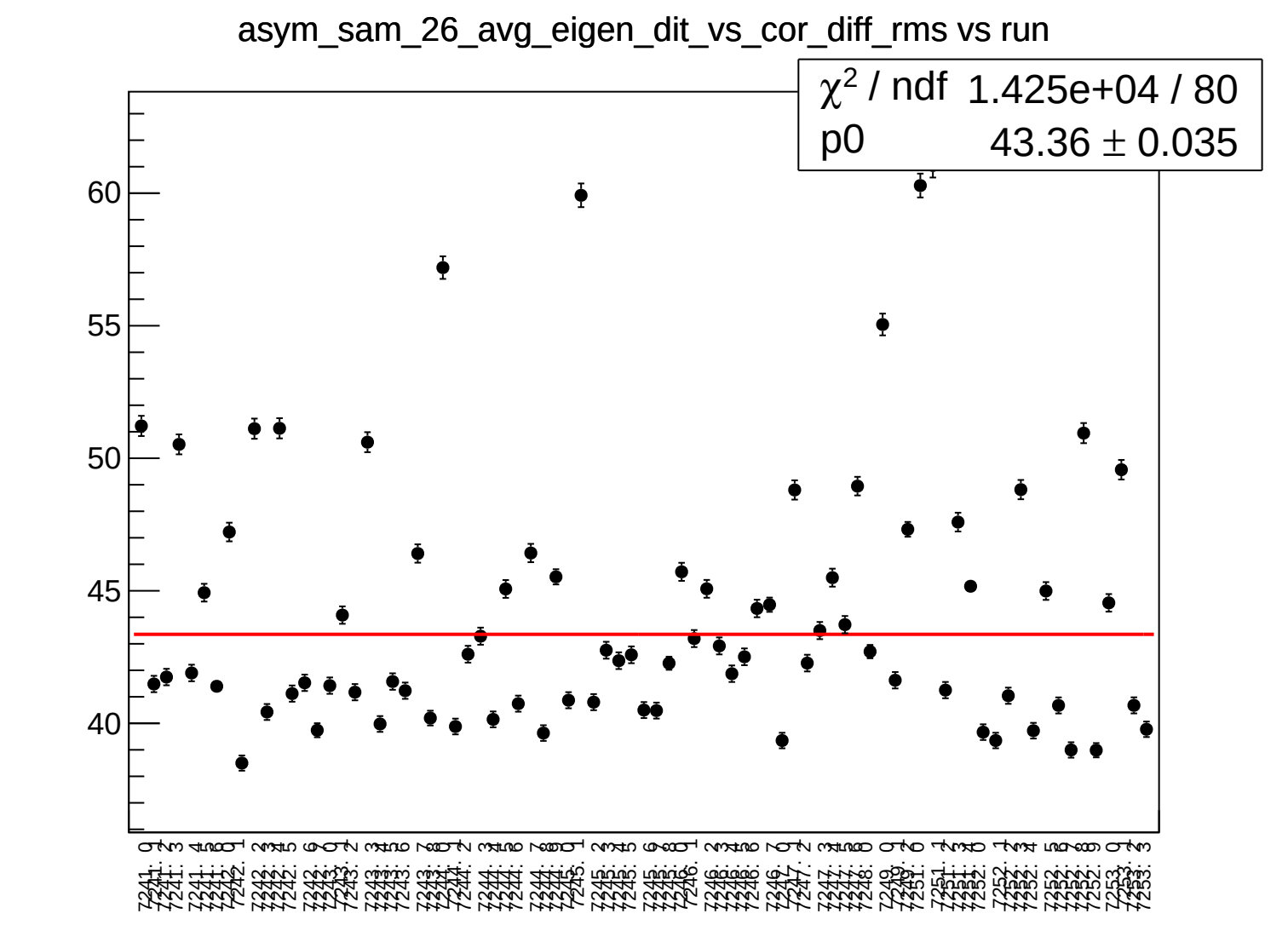

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.9 / 80
p0 −5.05e−06 ± 4.46e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 81
Mean −179.8
Std Dev 0
2
1
0
−1
−2

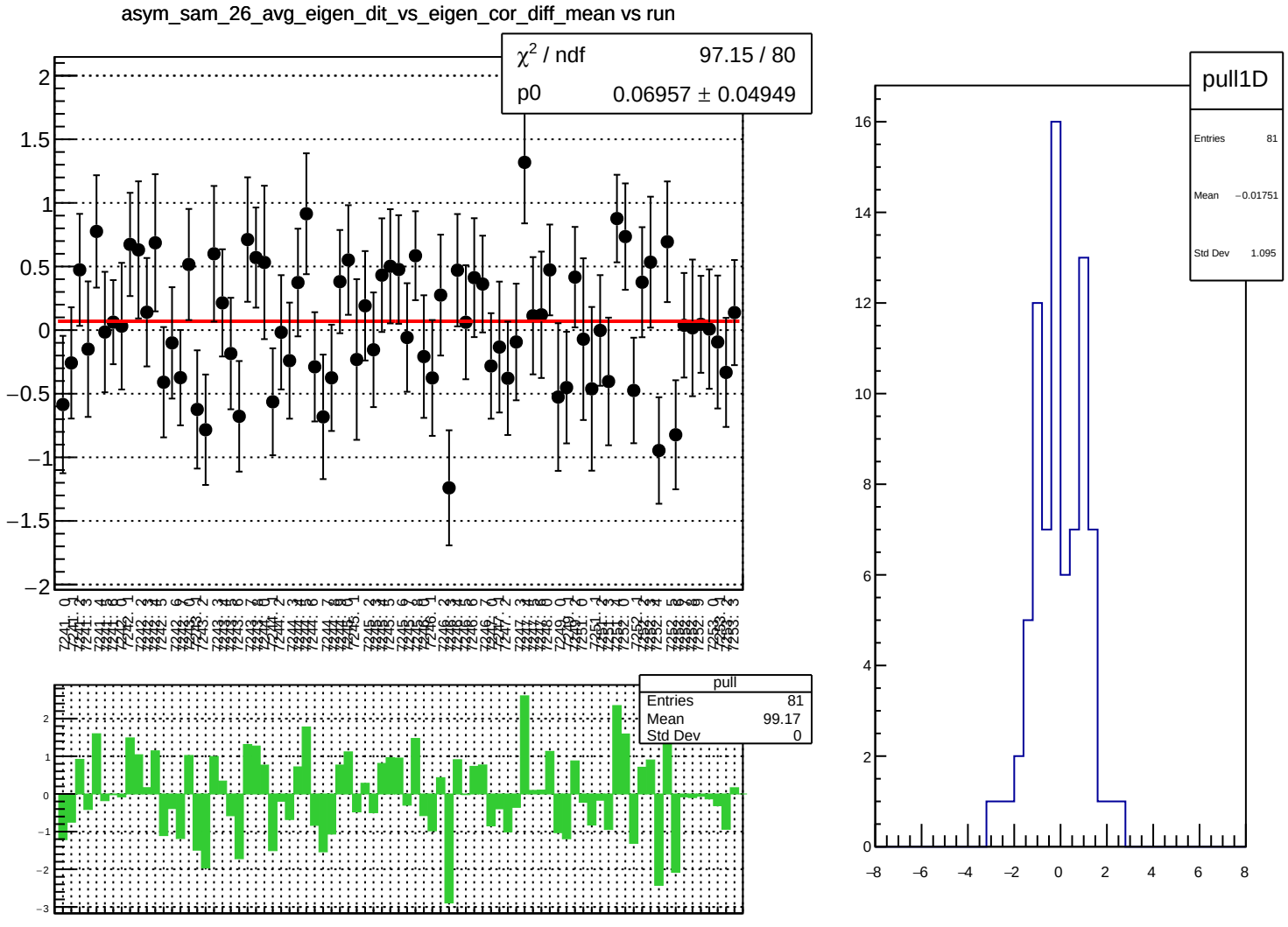

pull1D
Entries 81
Mean −0.01876
Std Dev 1.036
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

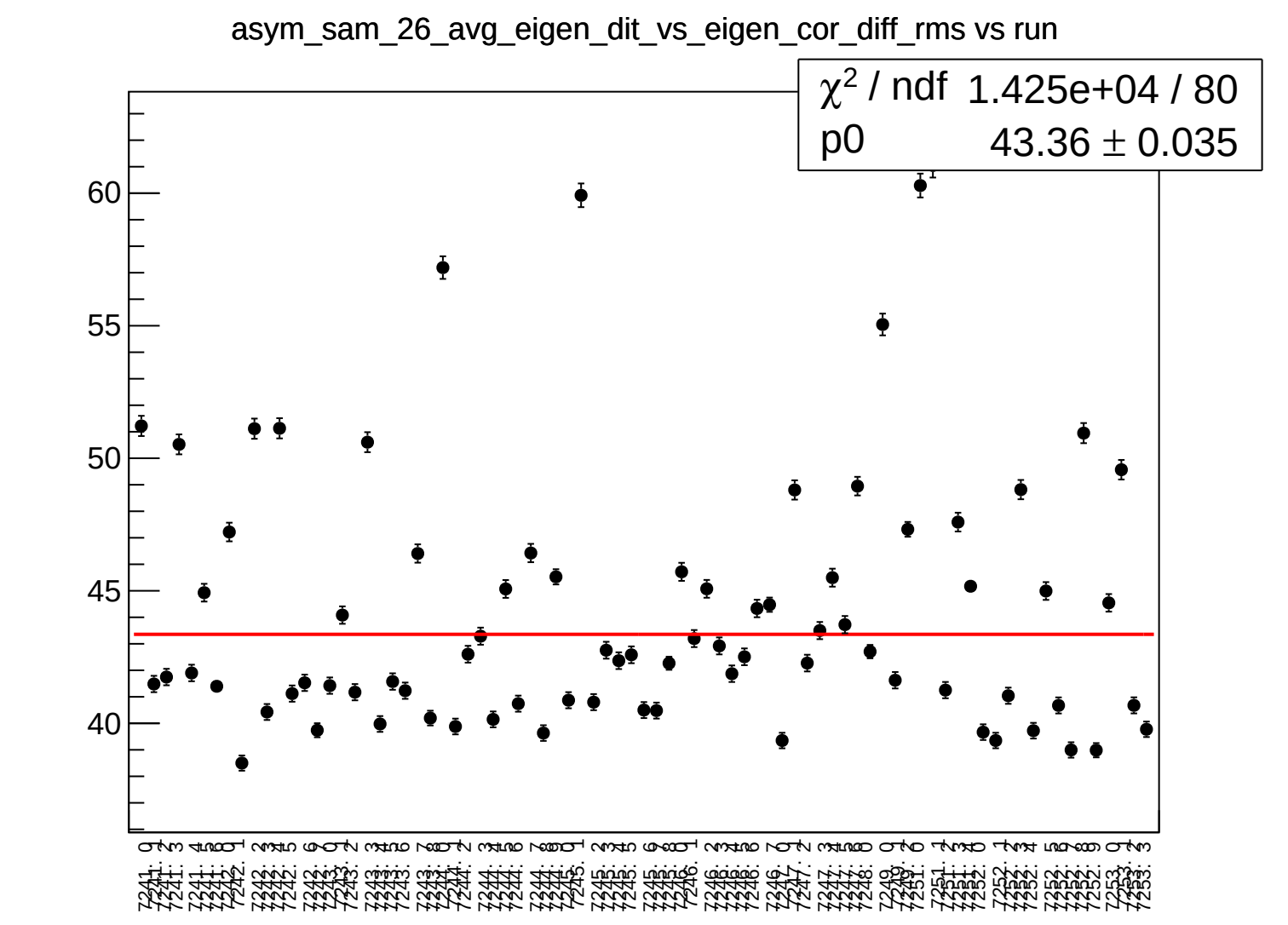

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.881e+04 / 80
p0 0.003876 ± 3.153e−06
0.005
0.0045
0.004
0.0035
0.003

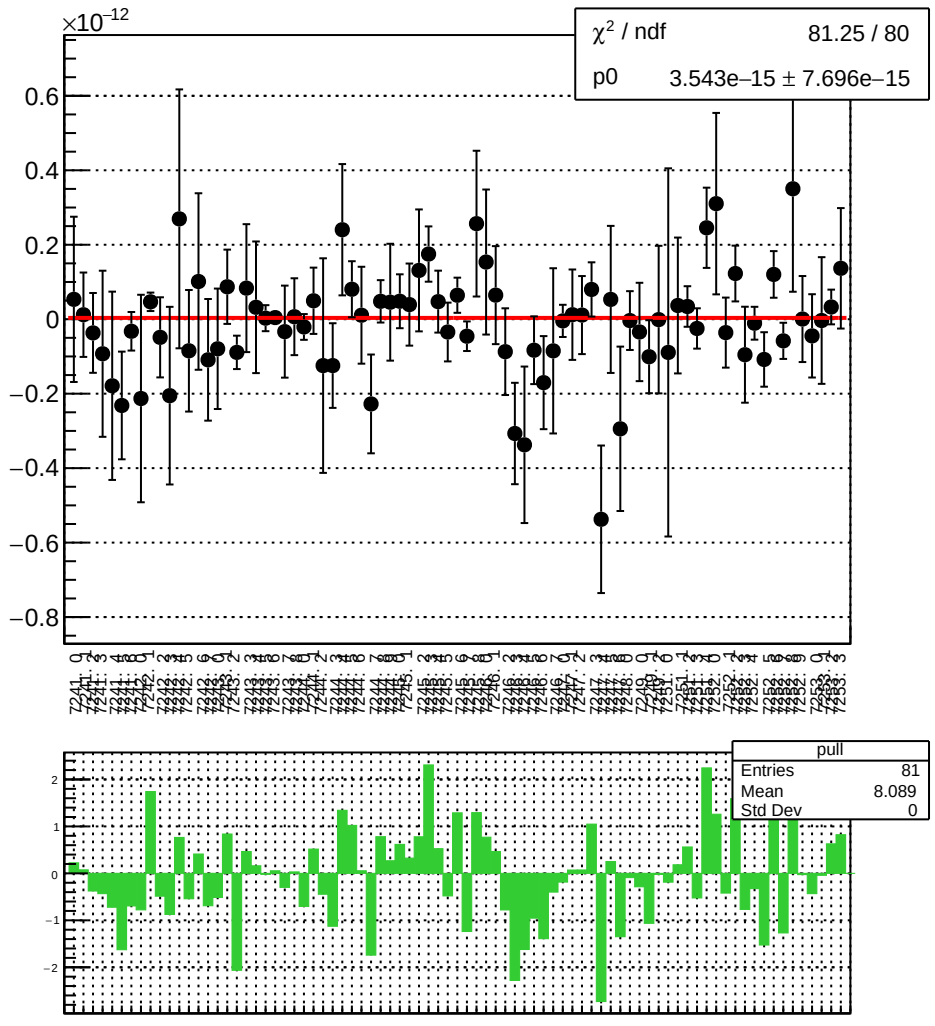

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.15 / 80
p0 0.06957 ± 0.04949
pull
Entries 81
Mean 99.17
Std Dev 0

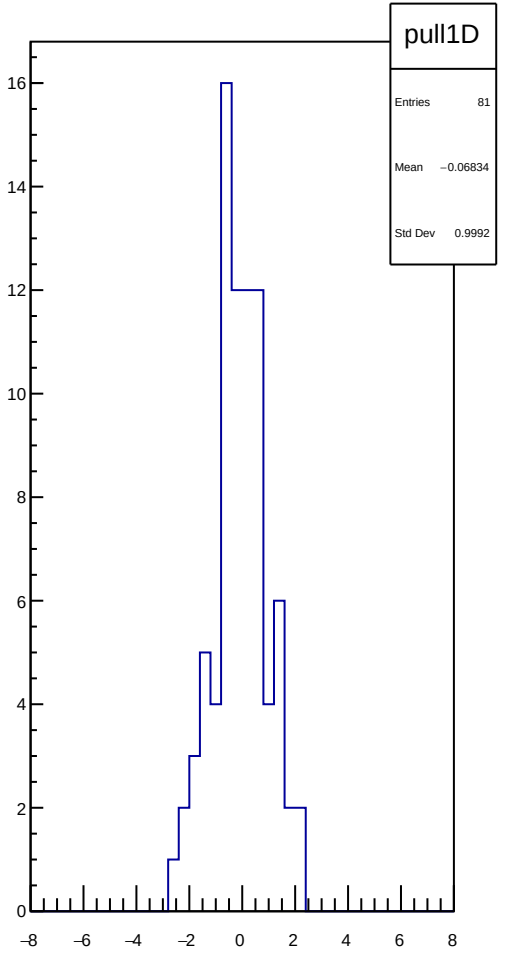

pull1D
Entries 81
Mean −0.01751
Std Dev 1.095

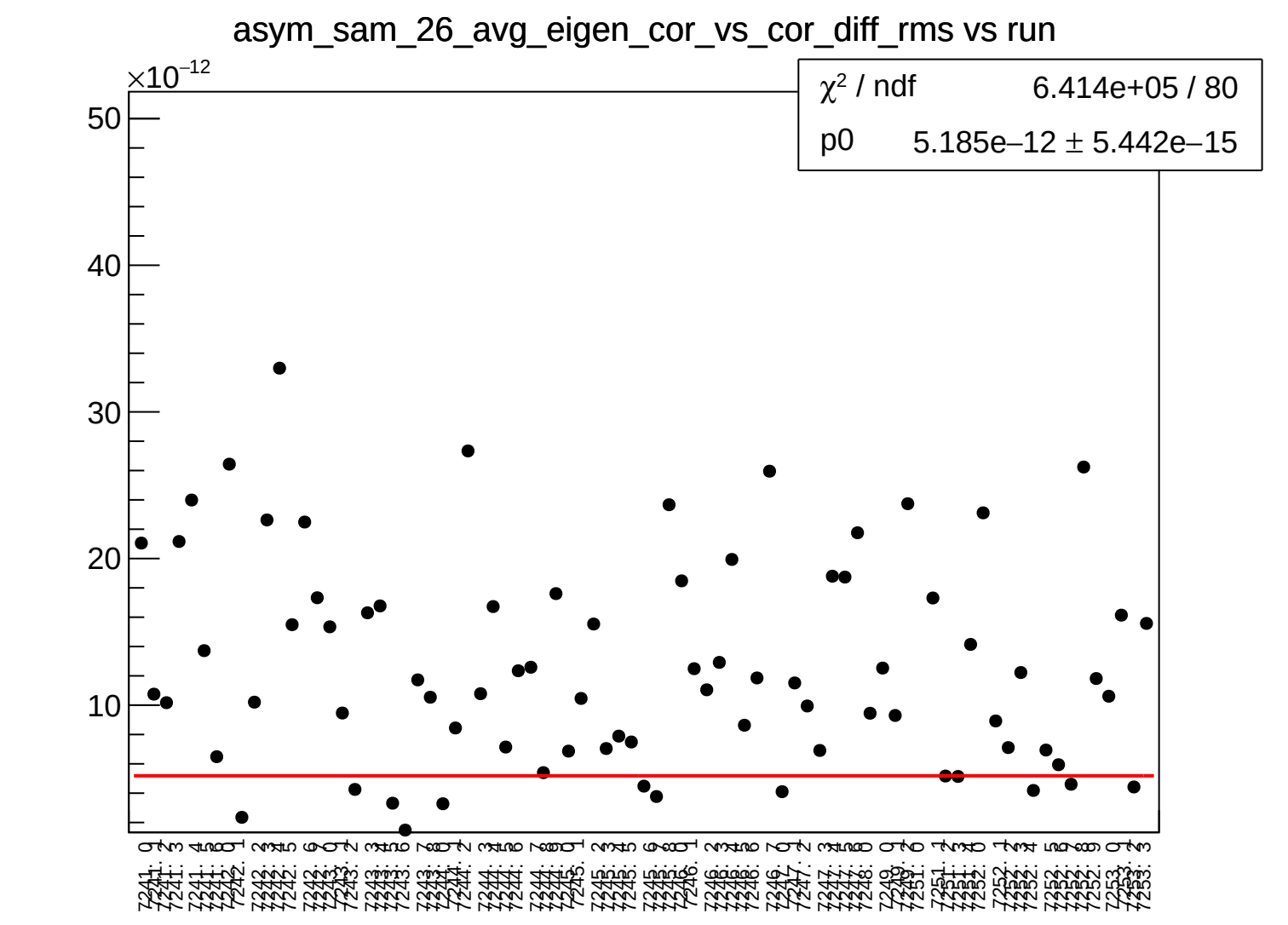

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.425e+04 / 80
p0 43.36 ± 0.035
60
55
50
45
40

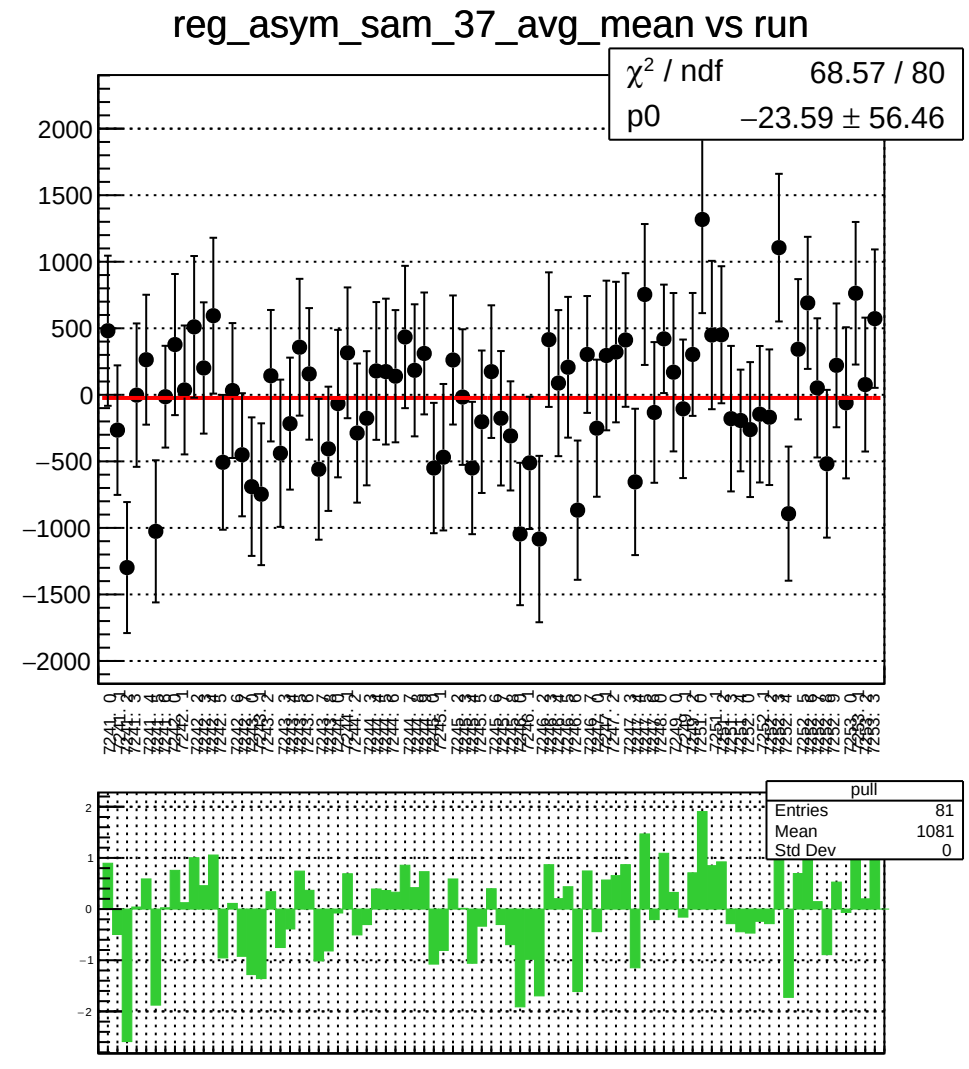

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.15 / 80
p0 0.06957 ± 0.04949
pull
Entries 81
Mean 99.17
Std Dev 0
pull1D
Entries 81
Mean −0.01751
Std Dev 1.095

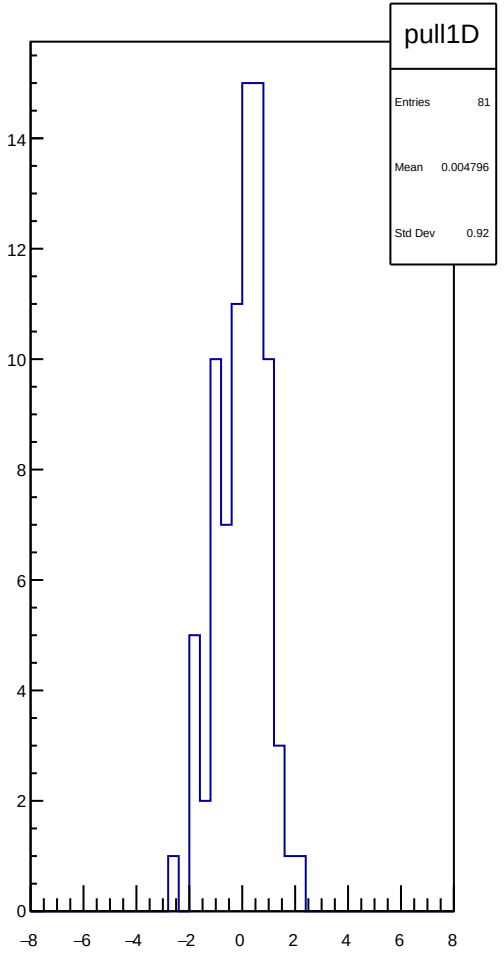

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.425e+04 / 80
p0 43.36 ± 0.035
60
55
50
45
40

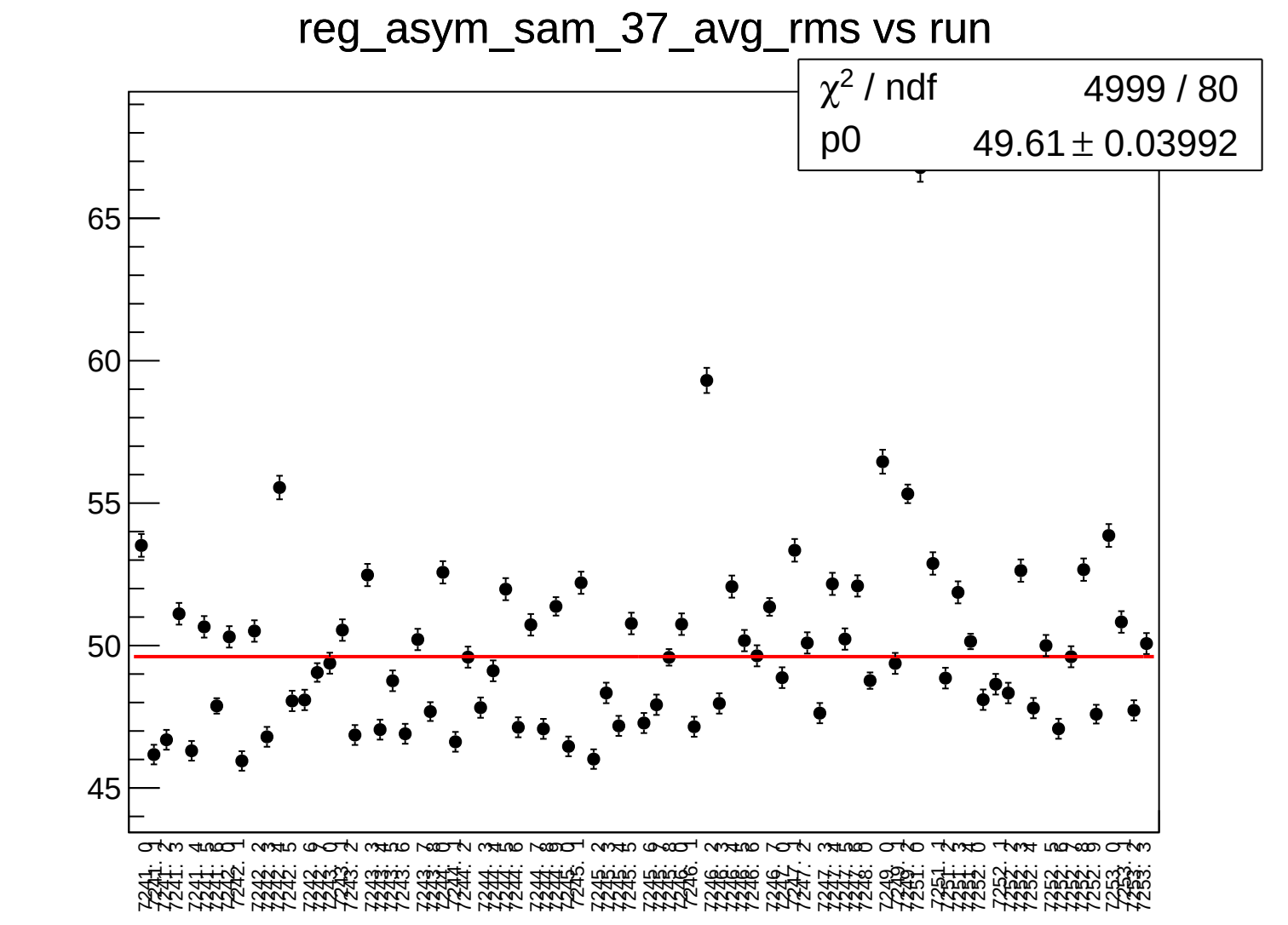

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.25 / 80
p0 3.543e−15 ± 7.696e−15
pull
Entries 81
Mean 8.089
Std Dev 0

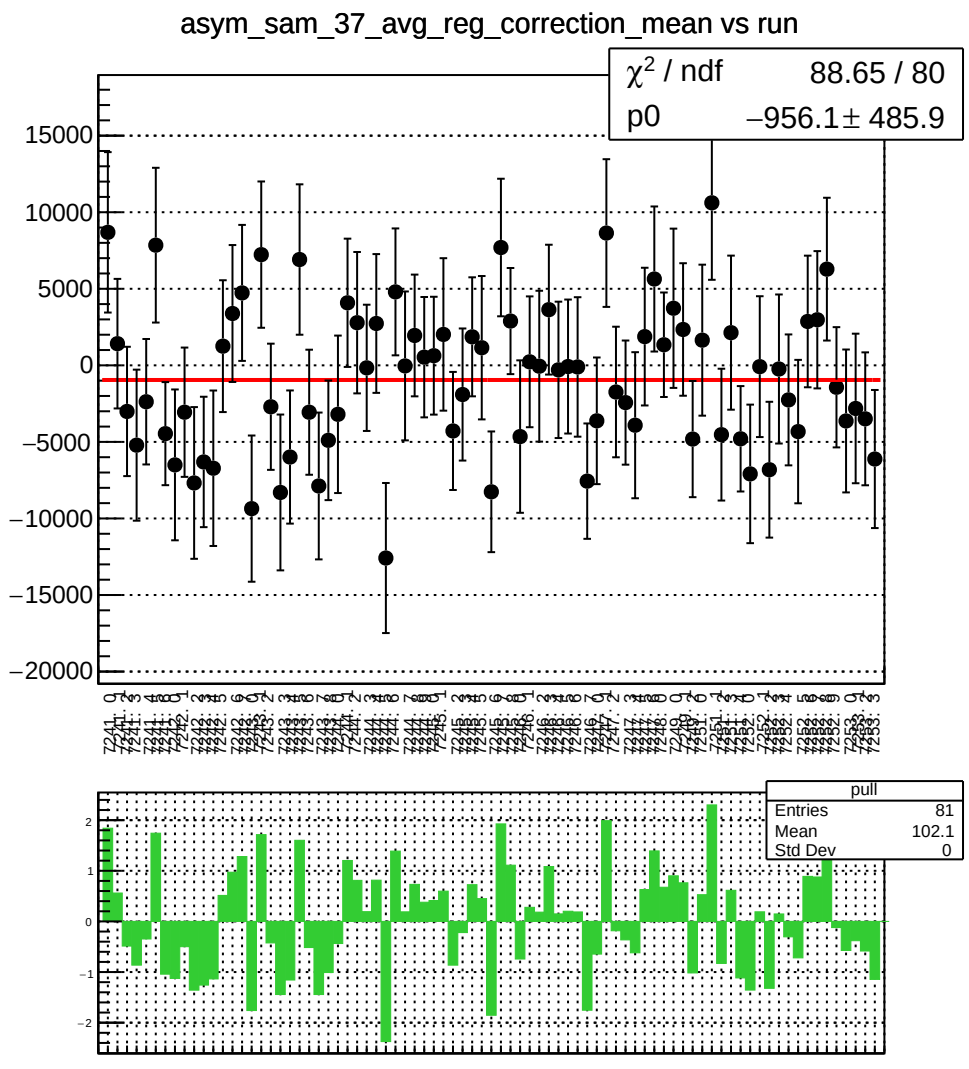

pull1D
Entries 81
Mean −0.06834
Std Dev 0.9992

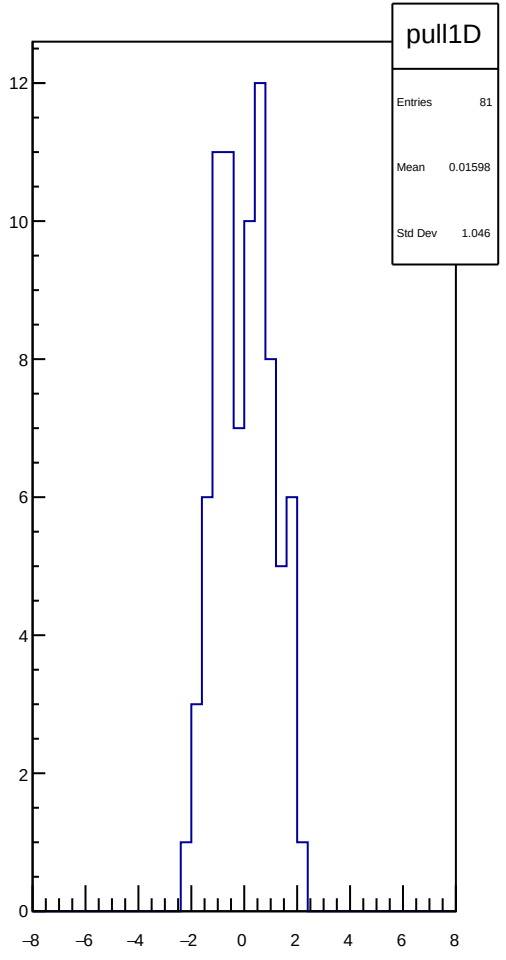

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.414e+05 / 80
p0 5.185e−12 ± 5.442e−15
50
40
30
20
10

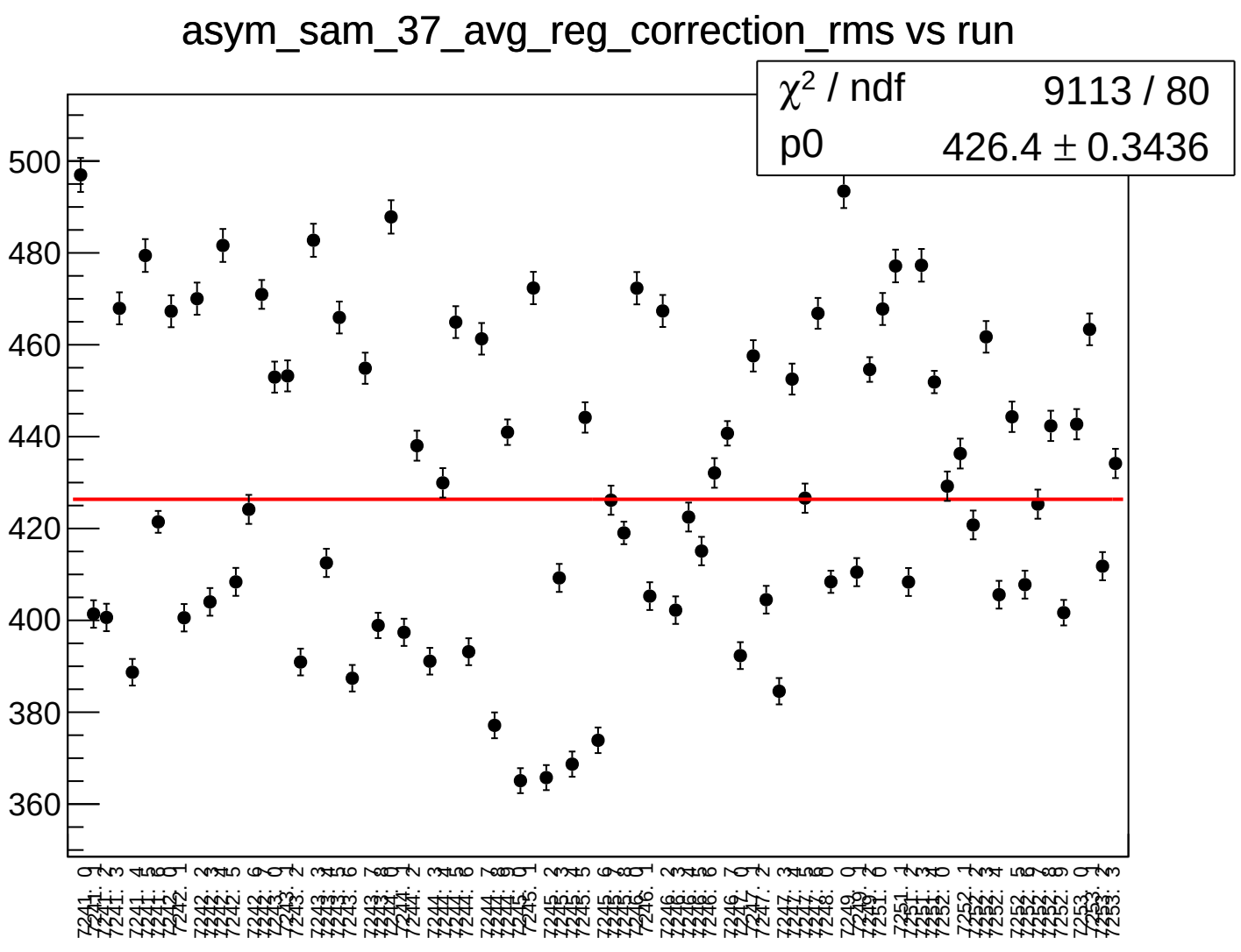

reg_asym_sam_37_avg_mean vs run
χ² / ndf 68.57 / 80
p0 −23.59 ± 56.46
pull
Entries 81
Mean 1081
Std Dev 0

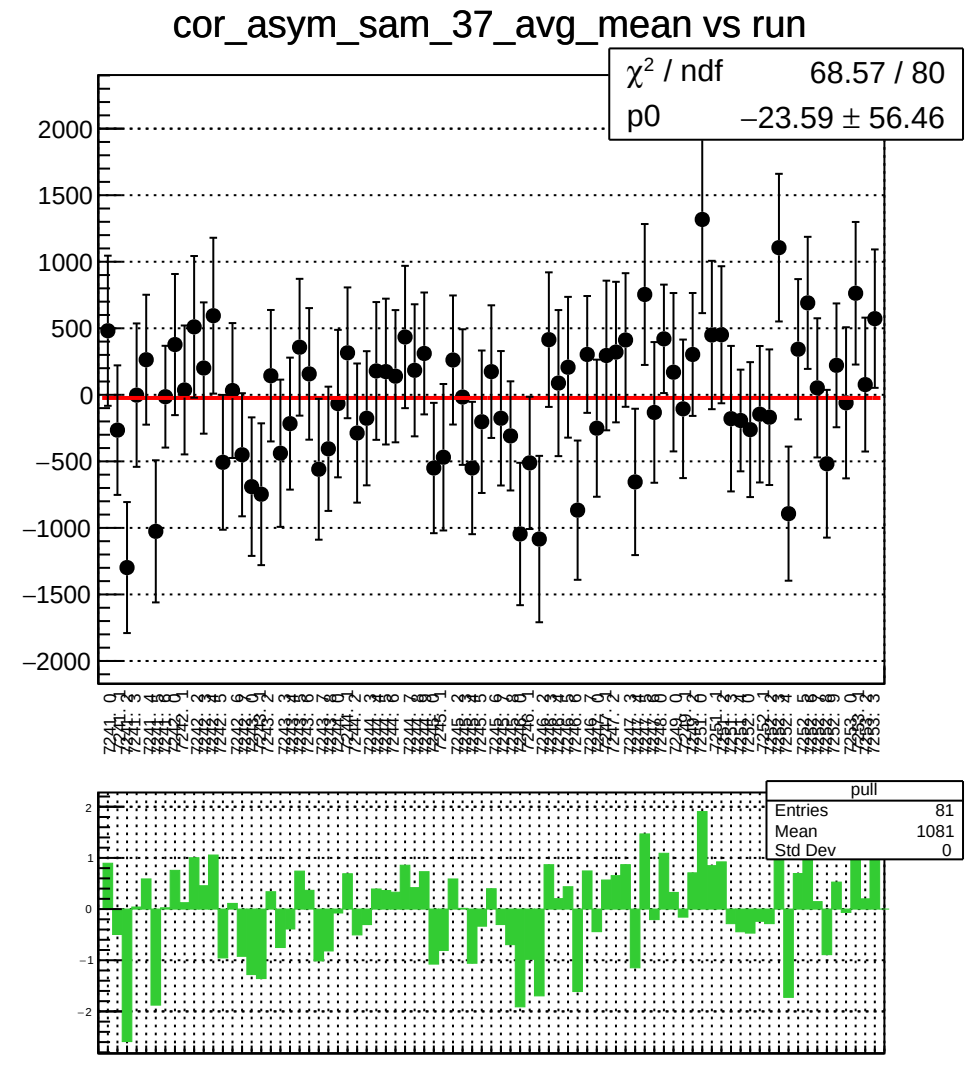

pull1D
Entries 81
Mean 0.004796
Std Dev 0.92

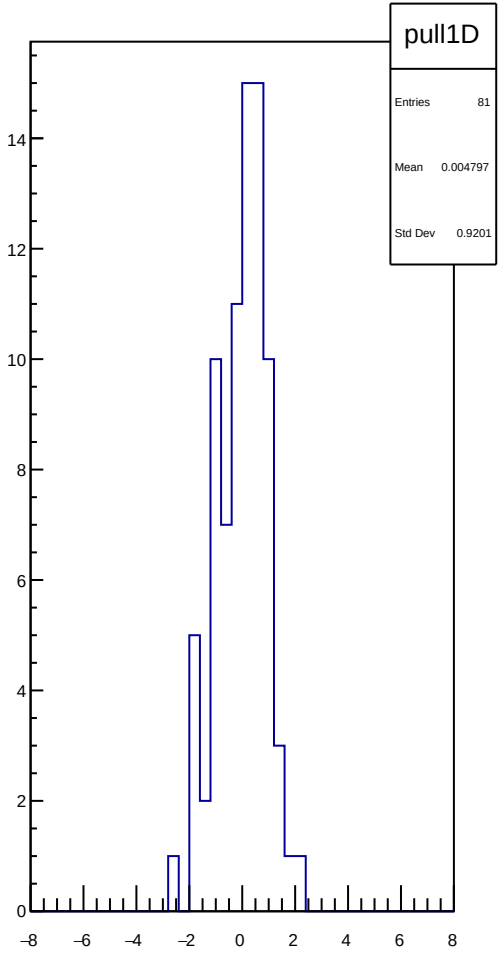

reg_asym_sam_37_avg_rms vs run
χ^2 / ndf 4999 / 80
p0 49.61 ± 0.03992
65
60
55
50
45

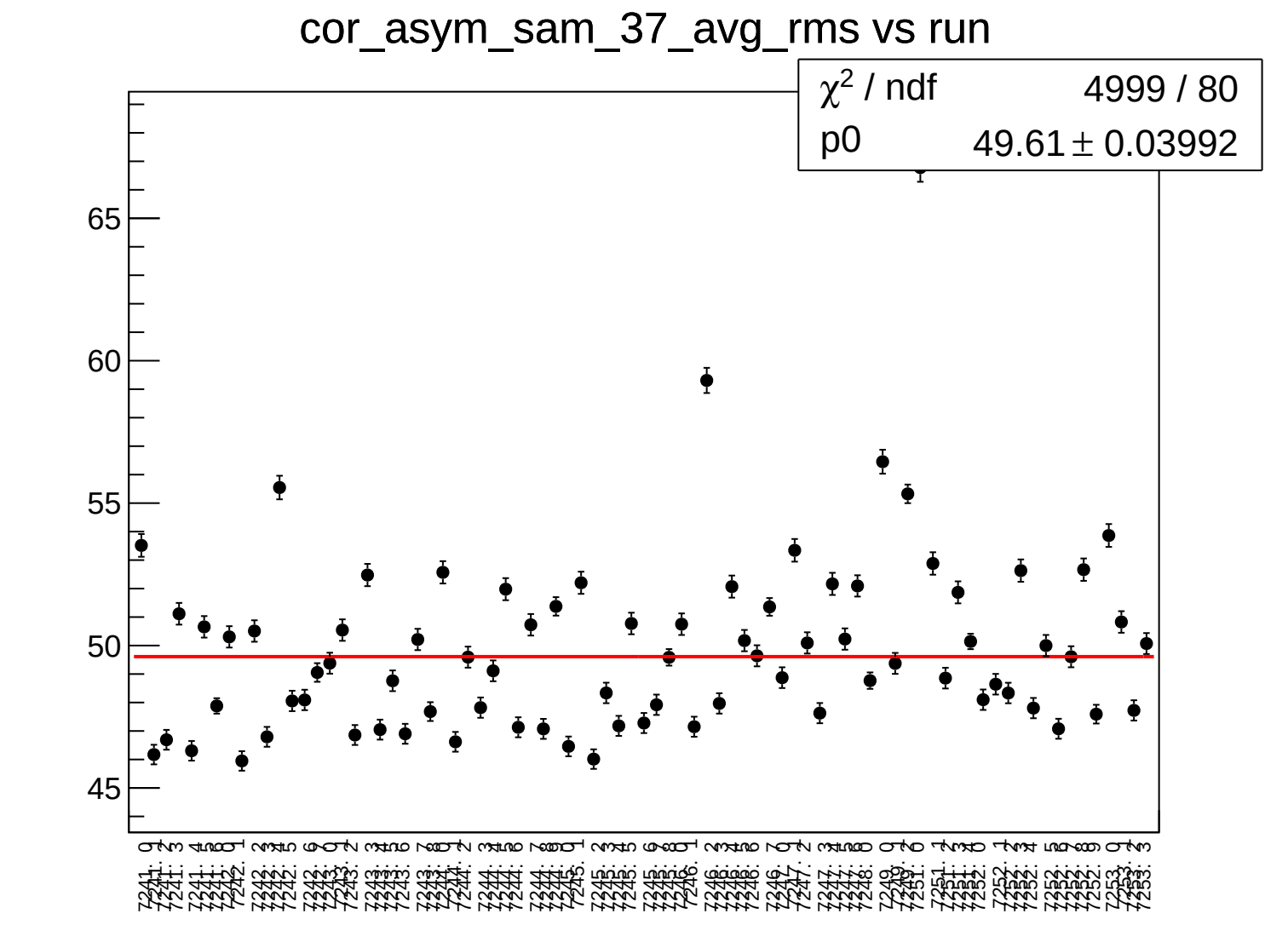

asym_sam_37_avg_reg_correction_mean vs run
χ² / ndf 88.65 / 80
p0 −956.1 ± 485.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 81
Mean 102.1
Std Dev 0
2
1
0
−1
−2

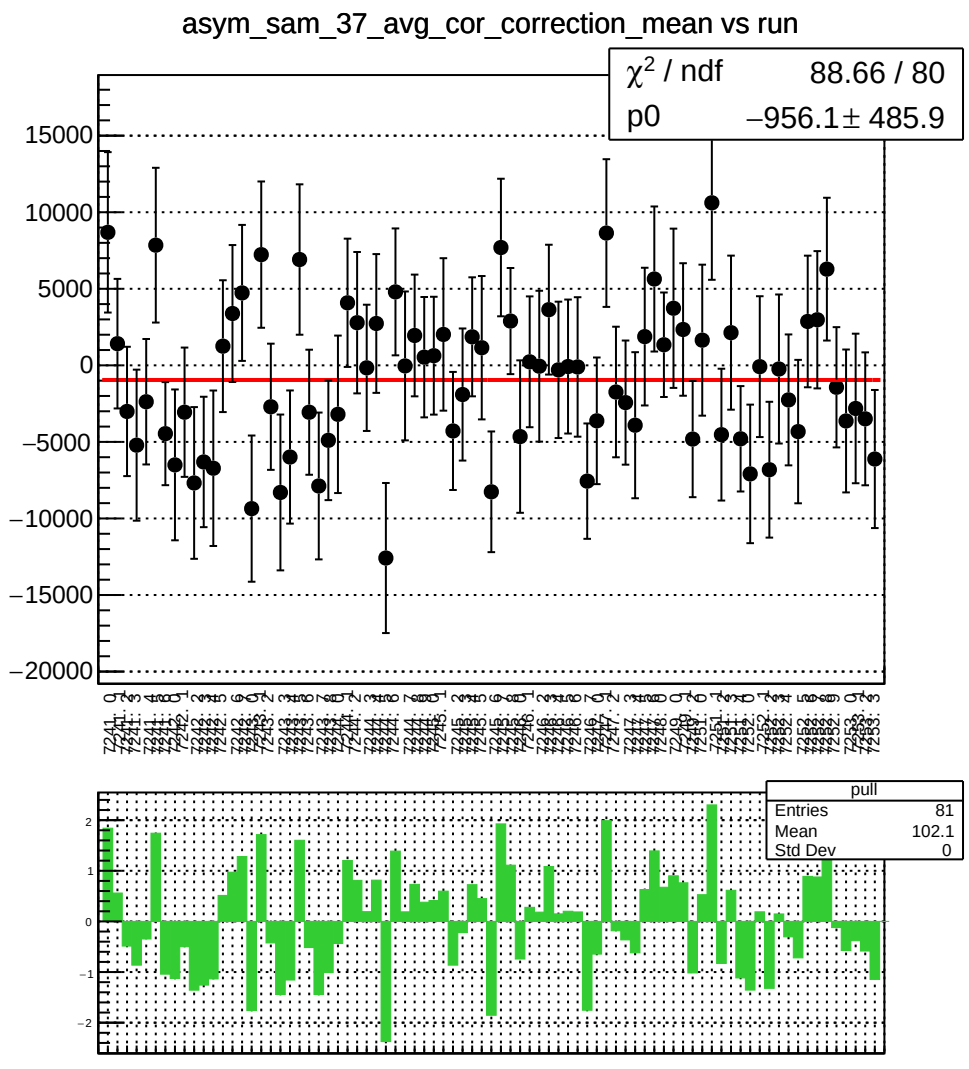

pull1D
Entries 81
Mean 0.01598
Std Dev 1.046
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

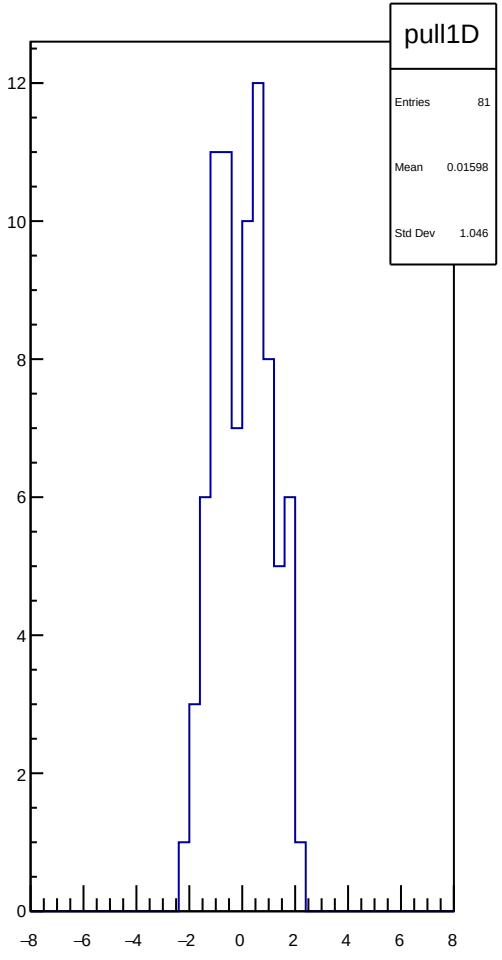

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 9113 / 80
p0 426.4 ± 0.3436
500
480
460
440
420
400
380
360

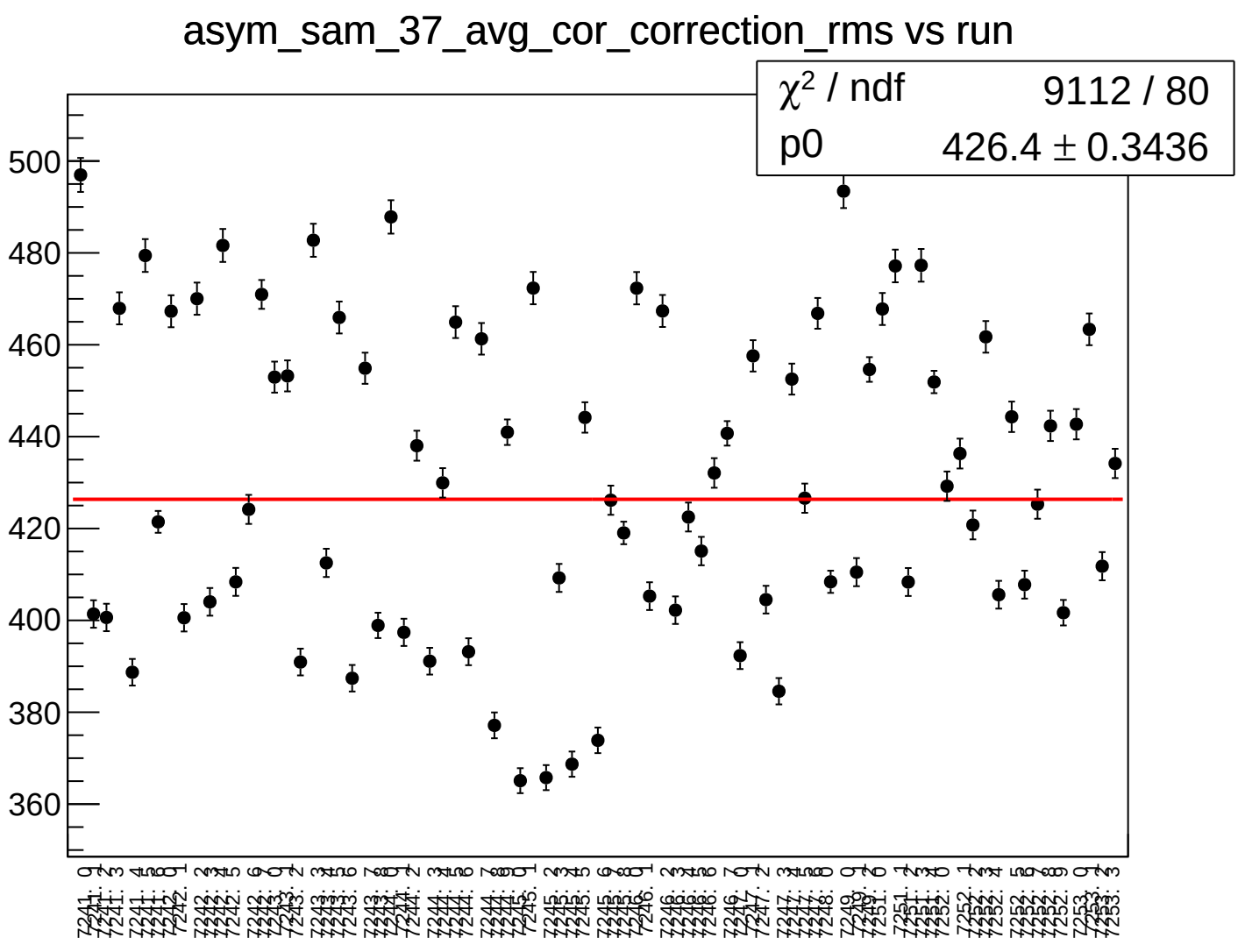

cor_asym_sam_37_avg_mean vs run
χ² / ndf 68.57 / 80
p0 −23.59 ± 56.46
pull
Entries 81
Mean 1081
Std Dev 0

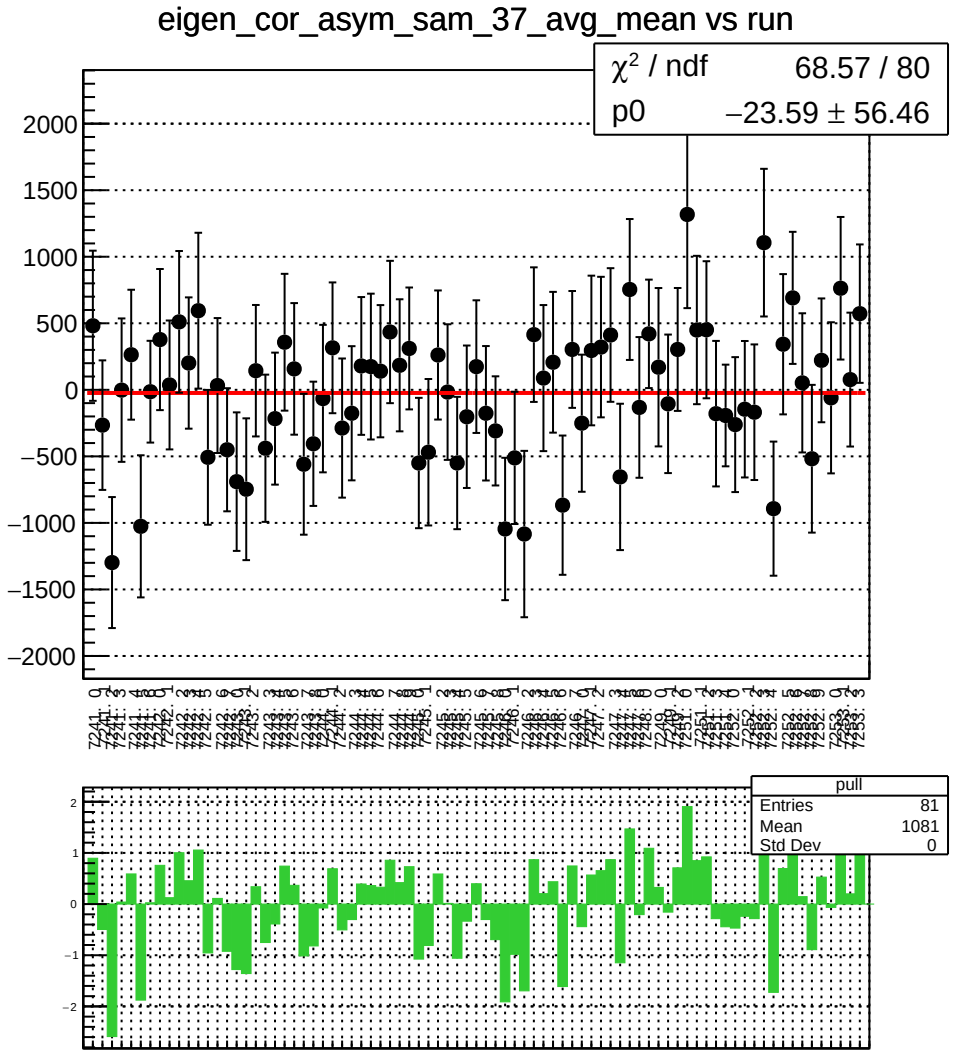

pull1D
Entries 81
Mean 0.004797
Std Dev 0.9201

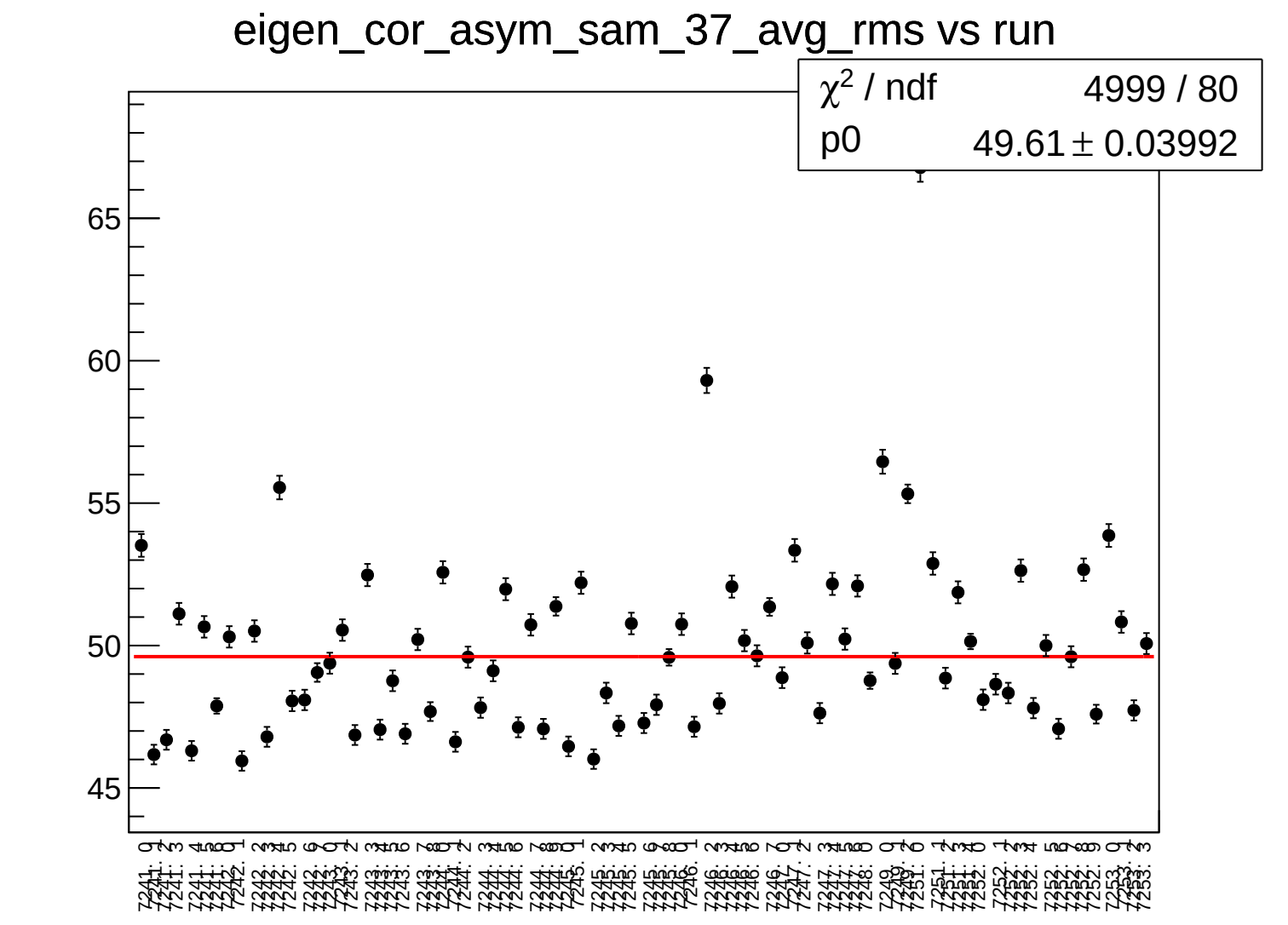

cor_asym_sam_37_avg_rms vs run
χ^2 / ndf 4999 / 80
p0 49.61 ± 0.03992
65
60
55
50
45

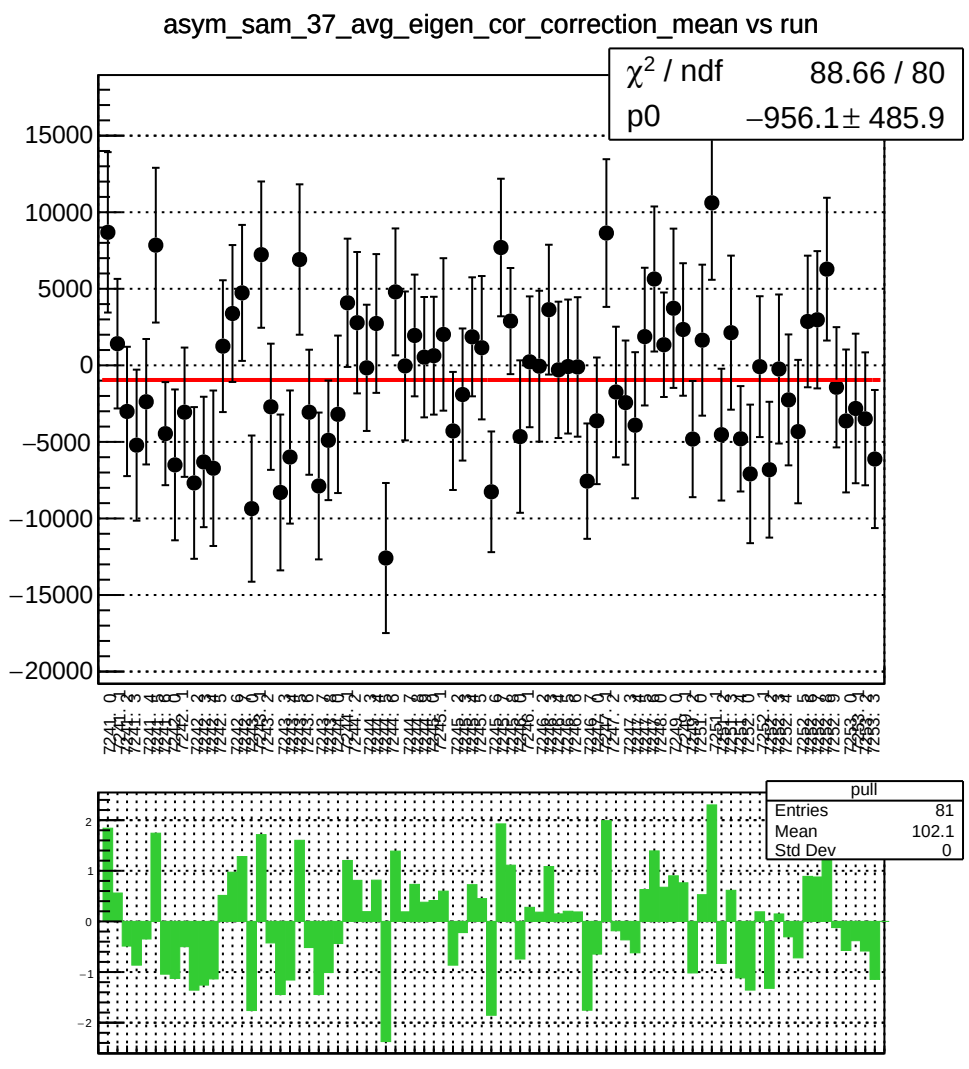

asym_sam_37_avg_cor_correction_mean vs run
χ² / ndf 88.66 / 80
p0 −956.1 ± 485.9
pull
Entries 81
Mean 102.1
Std Dev 0

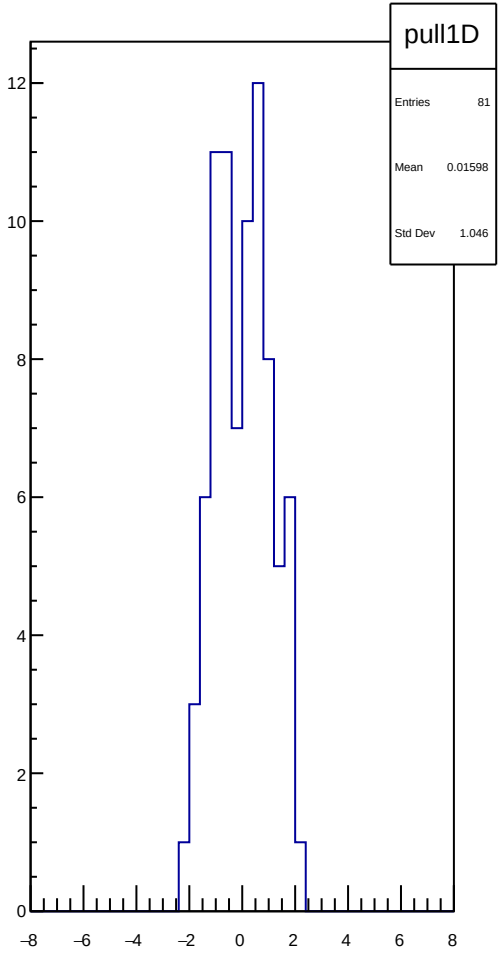

pull1D
Entries 81
Mean 0.01598
Std Dev 1.046

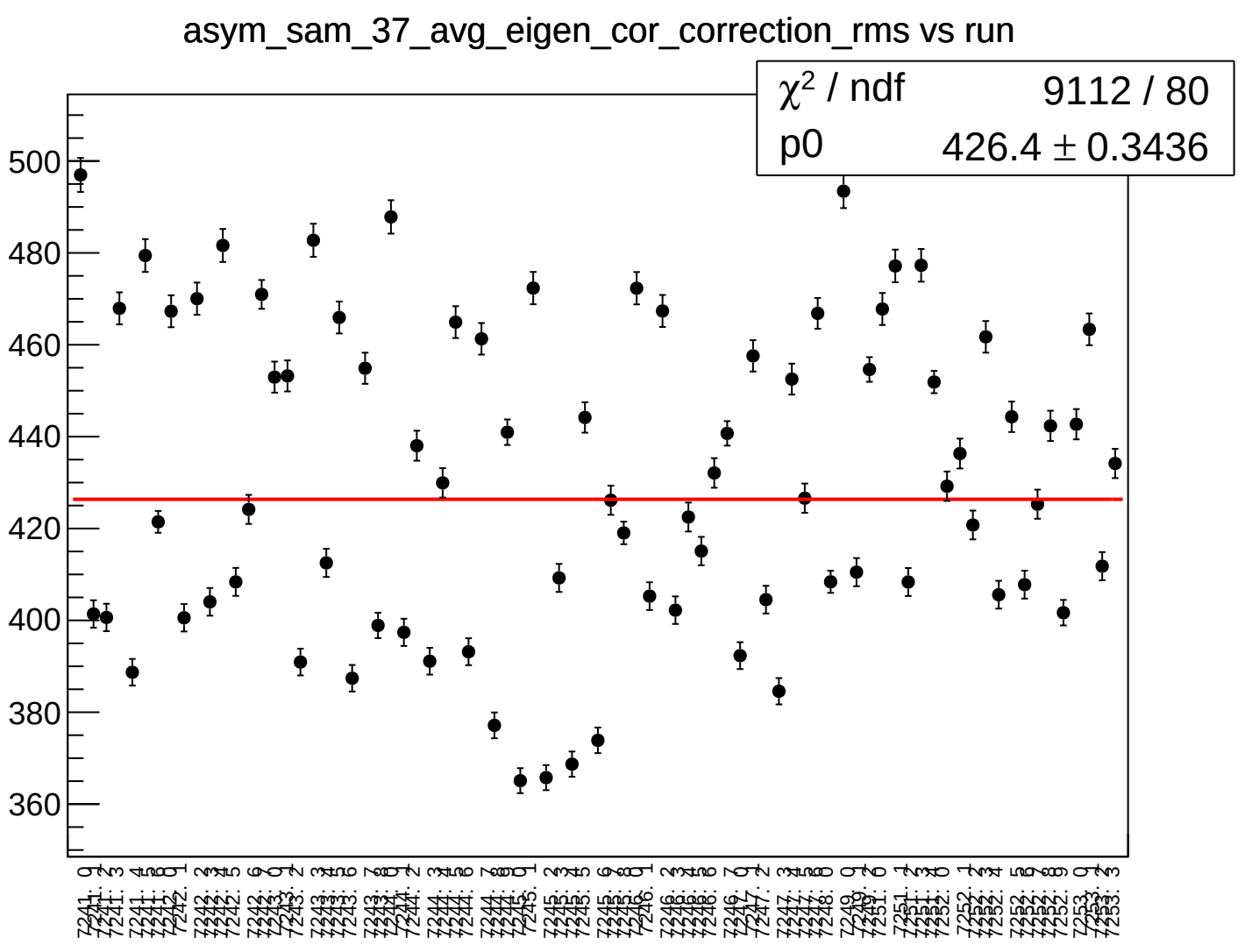

asym_sam_37_avg_cor_correction_rms vs run
χ² / ndf 9112 / 80
p0 426.4 ± 0.3436
500
480
460
440
420
400
380
360

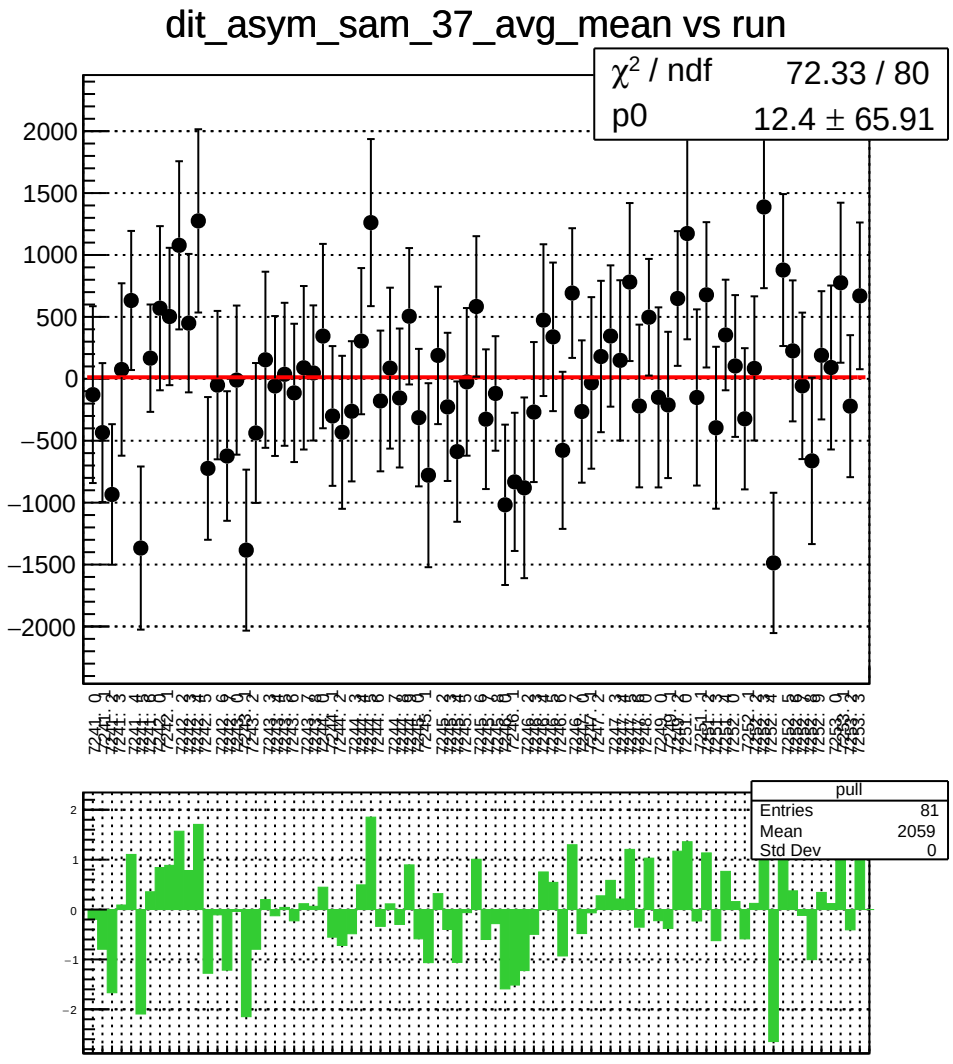

eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 68.57 / 80
p0 −23.59 ± 56.46
pull
Entries 81
Mean 1081
Std Dev 0
pull1D
Entries 81
Mean 0.004797
Std Dev 0.9201

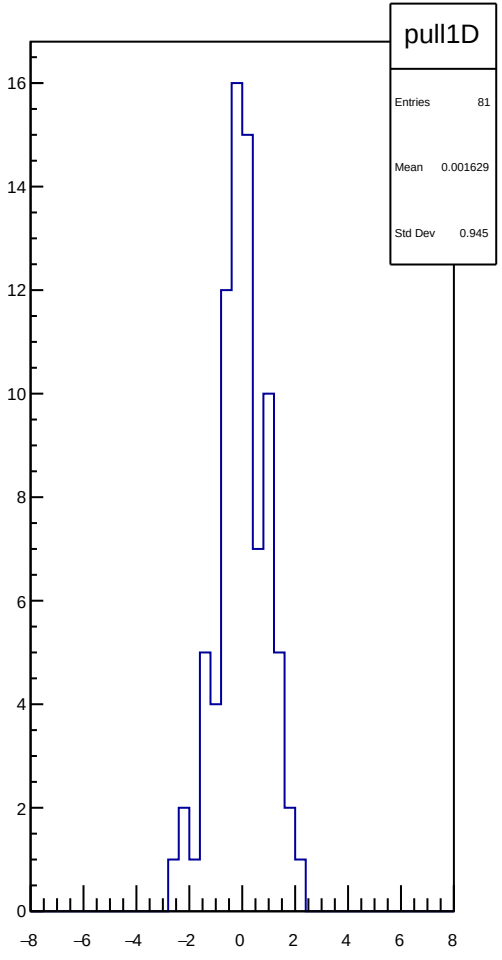

eigen_cor_asym_sam_37_avg_rms vs run
χ^2 / ndf 4999 / 80
p0 49.61 ± 0.03992
65
60
55
50
45

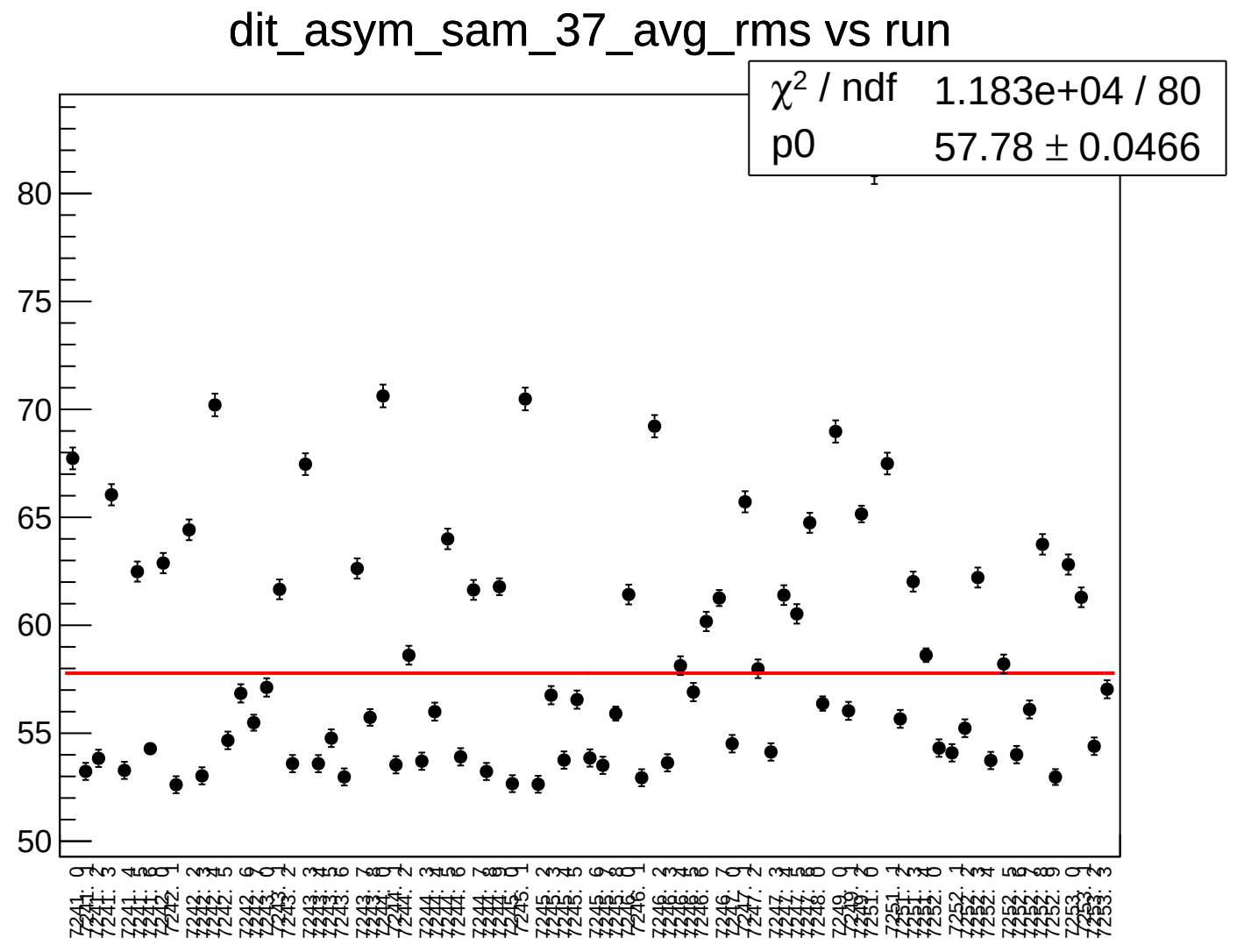

asym_sam_37_avg_eigen_cor_correction_mean vs run
χ² / ndf 88.66 / 80
p0 −956.1 ± 485.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 81
Mean 102.1
Std Dev 0
2
1
0
−1
−2

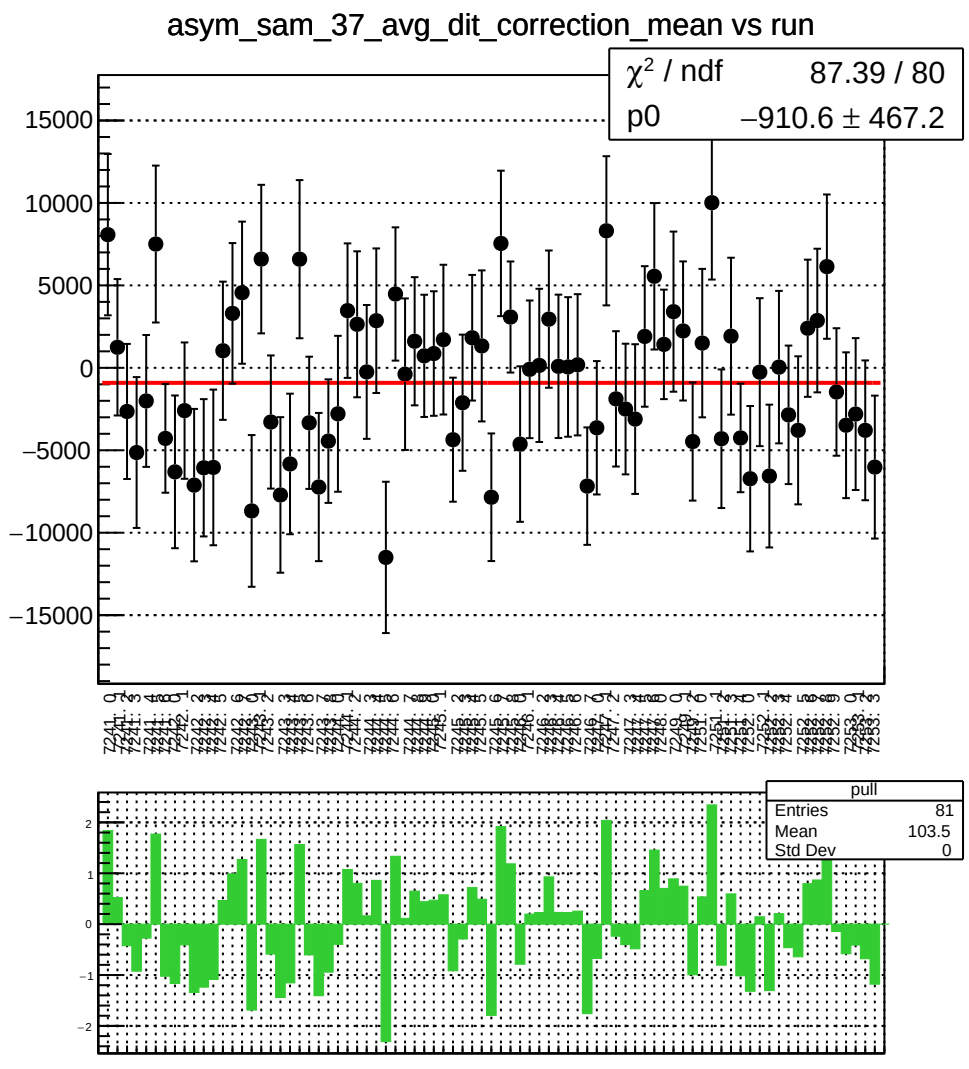

pull1D
Entries 81
Mean 0.01598
Std Dev 1.046
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

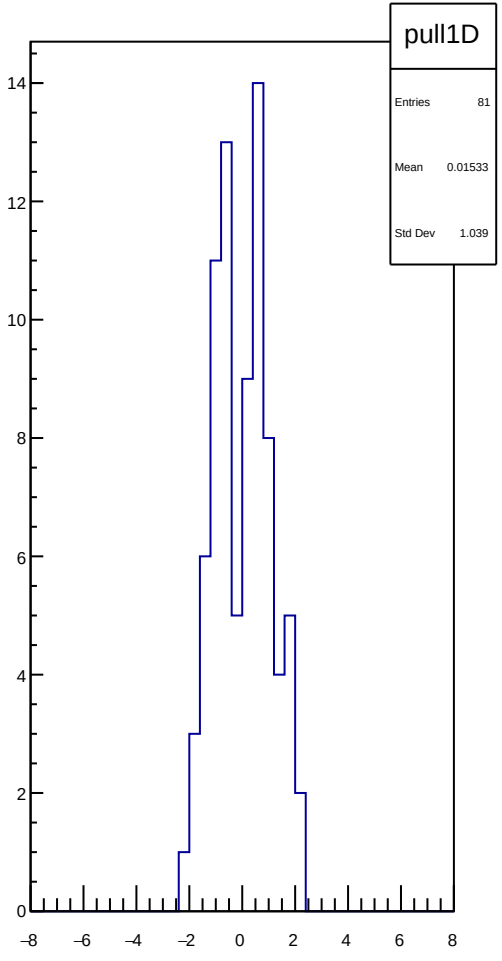

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 9112 / 80
p0 426.4 ± 0.3436
500
480
460
440
420
400
380
360

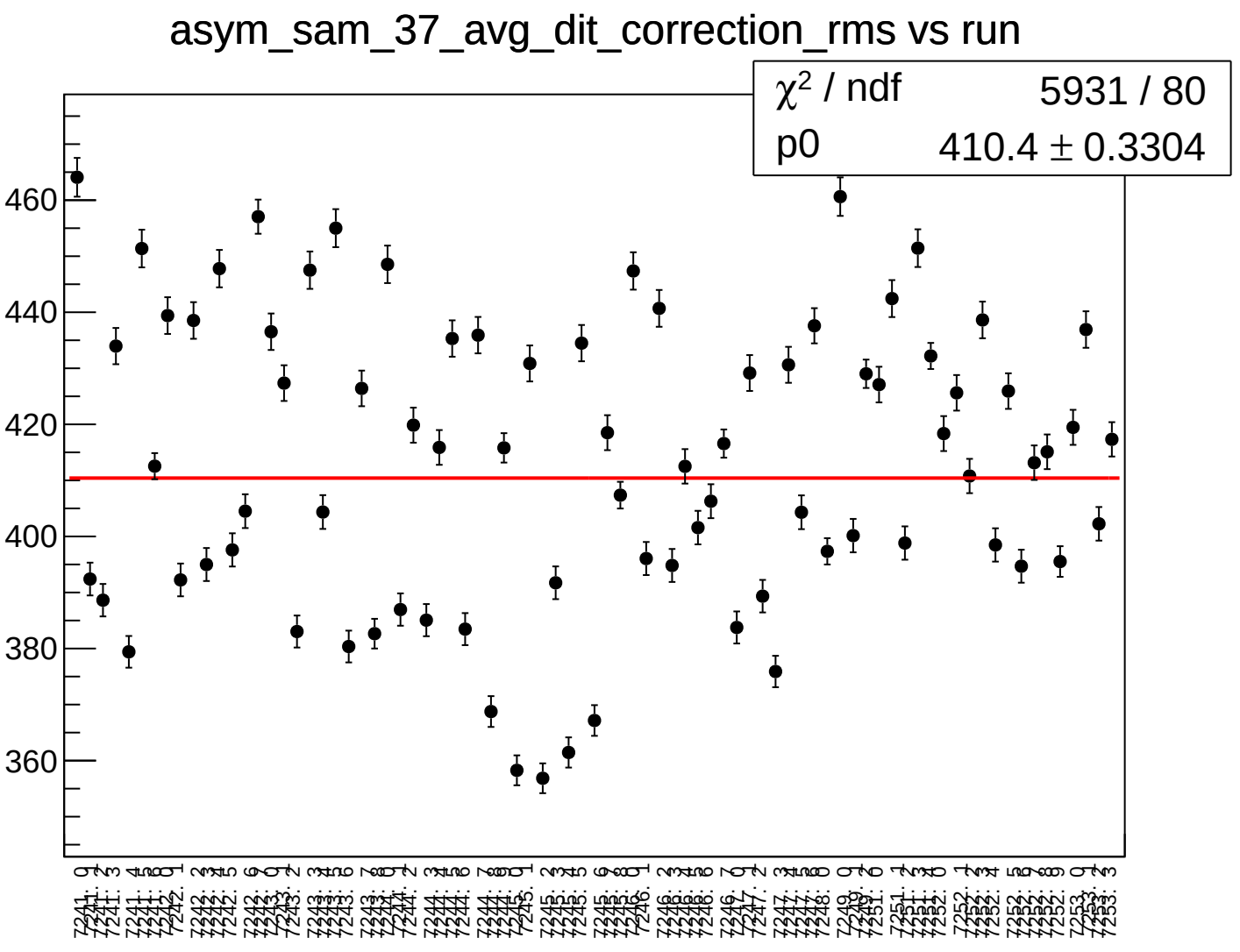

dit_asym_sam_37_avg_mean vs run
χ² / ndf 72.33 / 80
p0 12.4 ± 65.91
pull
Entries 81
Mean 2059
Std Dev 0

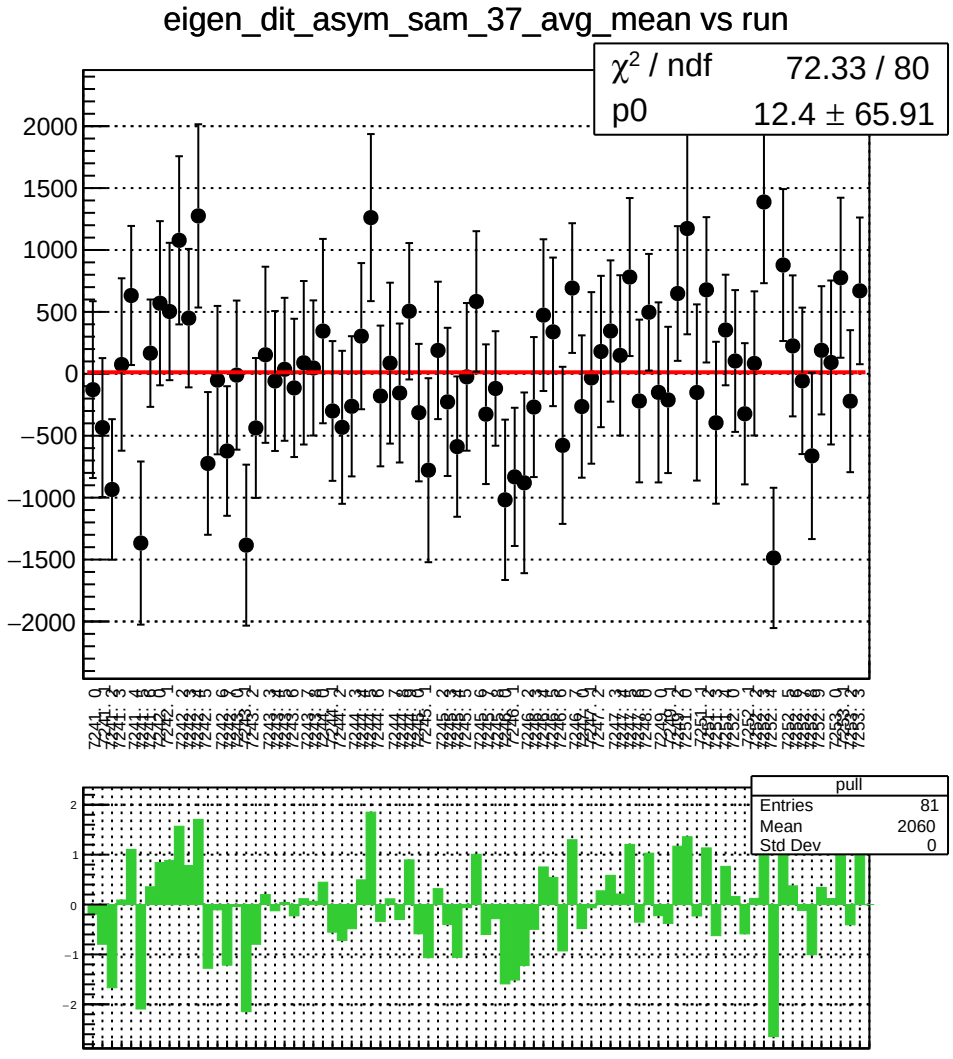

pull1D
Entries 81
Mean 0.001629
Std Dev 0.945

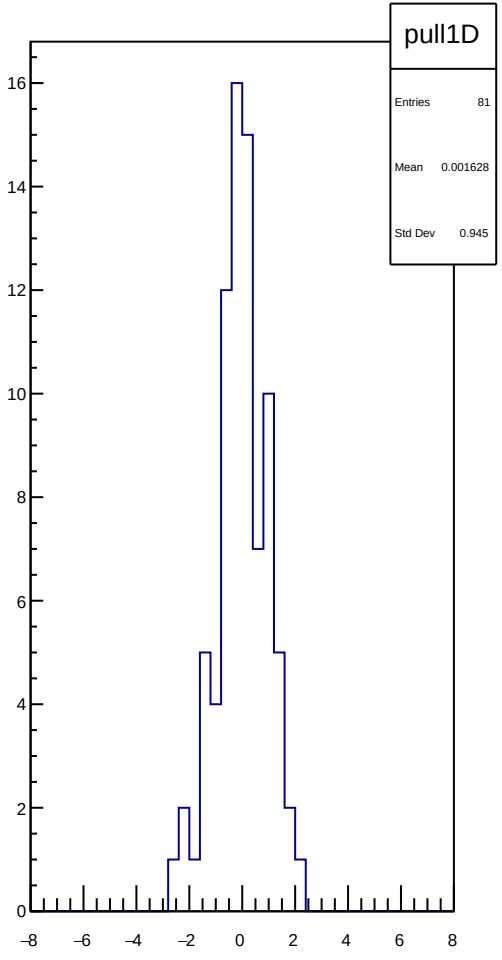

dit_asym_sam_37_avg_rms vs run
χ^2 / ndf 1.183e+04 / 80
p0 57.78 ± 0.0466
80
75
70
65
60
55
50

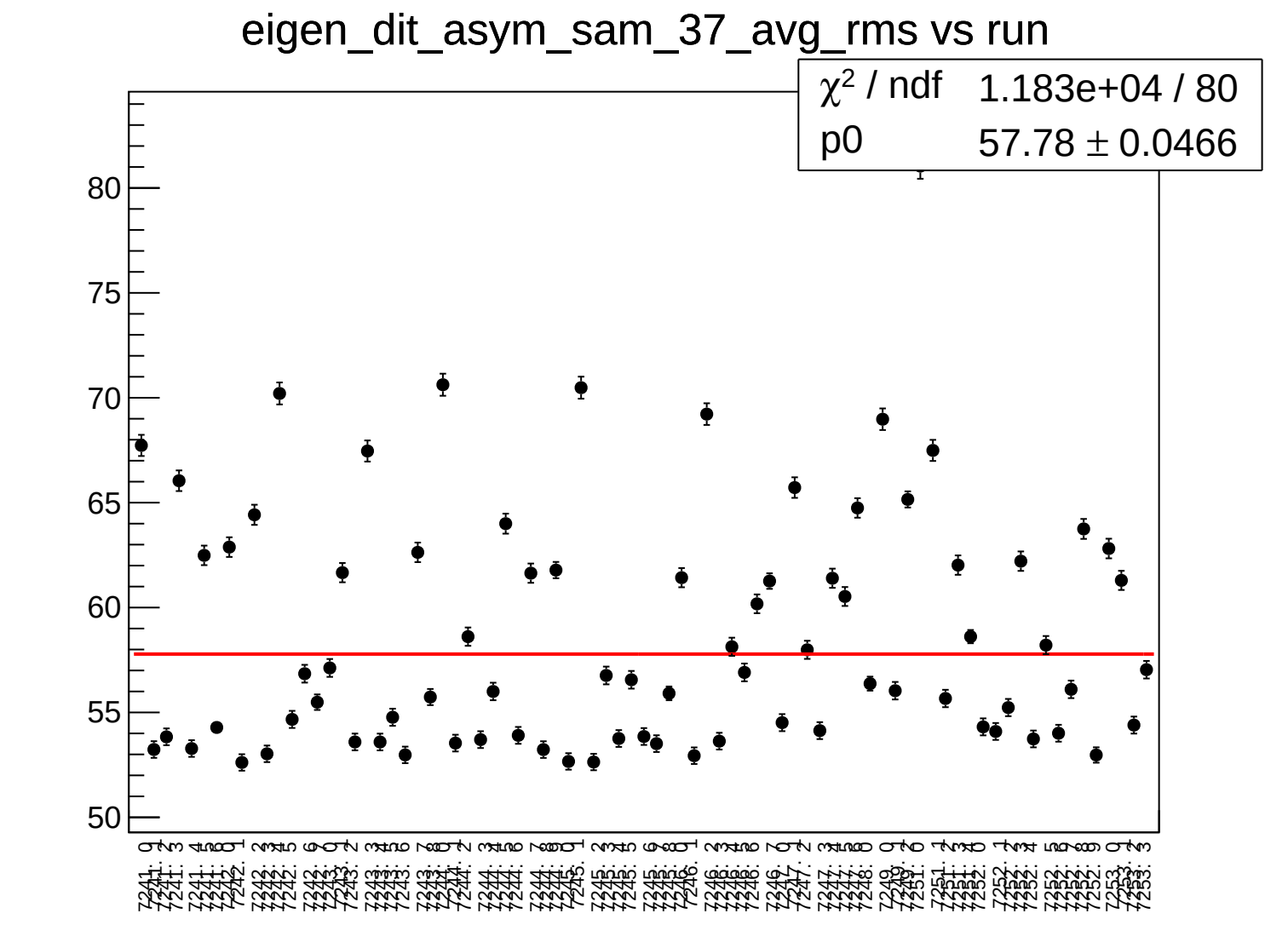

asym_sam_37_avg_dit_correction_mean vs run
χ² / ndf 87.39 / 80
p0 −910.6 ± 467.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean 103.5
Std Dev 0
2
1
0
−1
−2

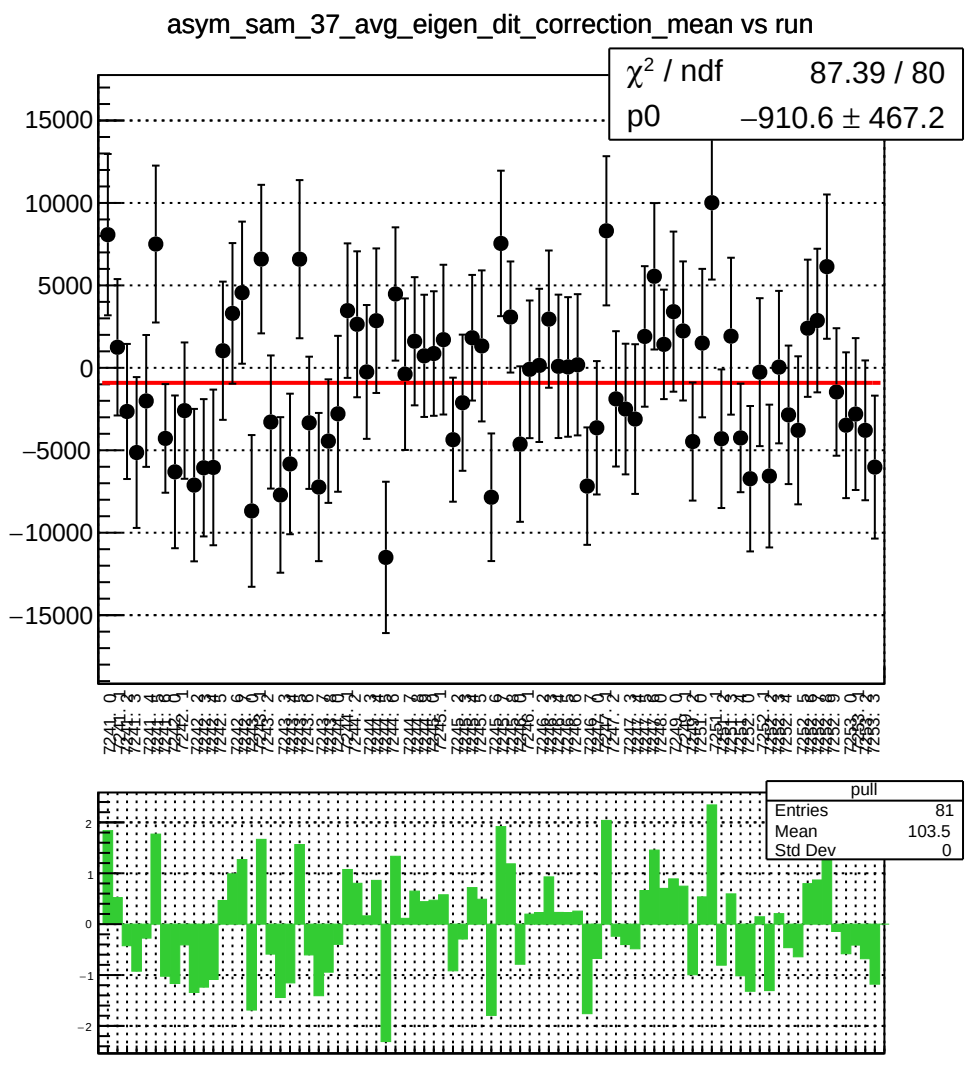

pull1D
Entries 81
Mean 0.01533
Std Dev 1.039
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

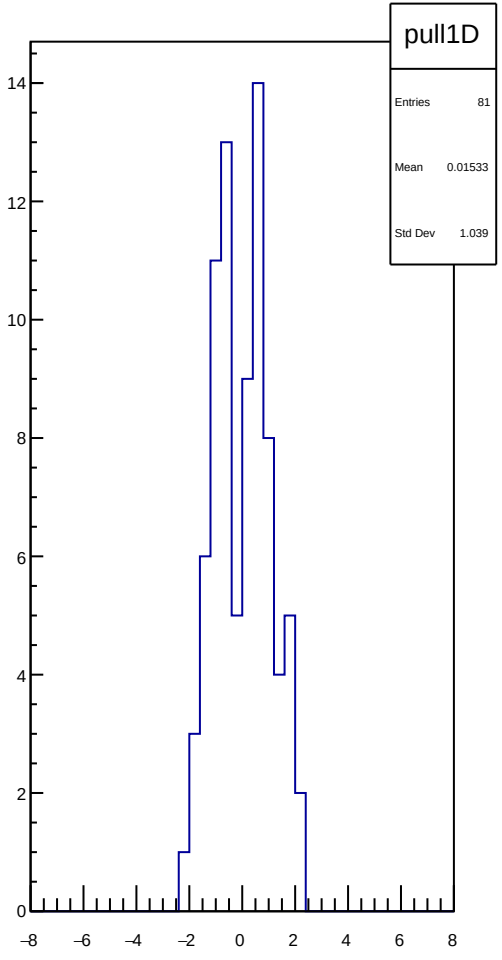

asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 5931 / 80
p0 410.4 ± 0.3304
460
440
420
400
380
360

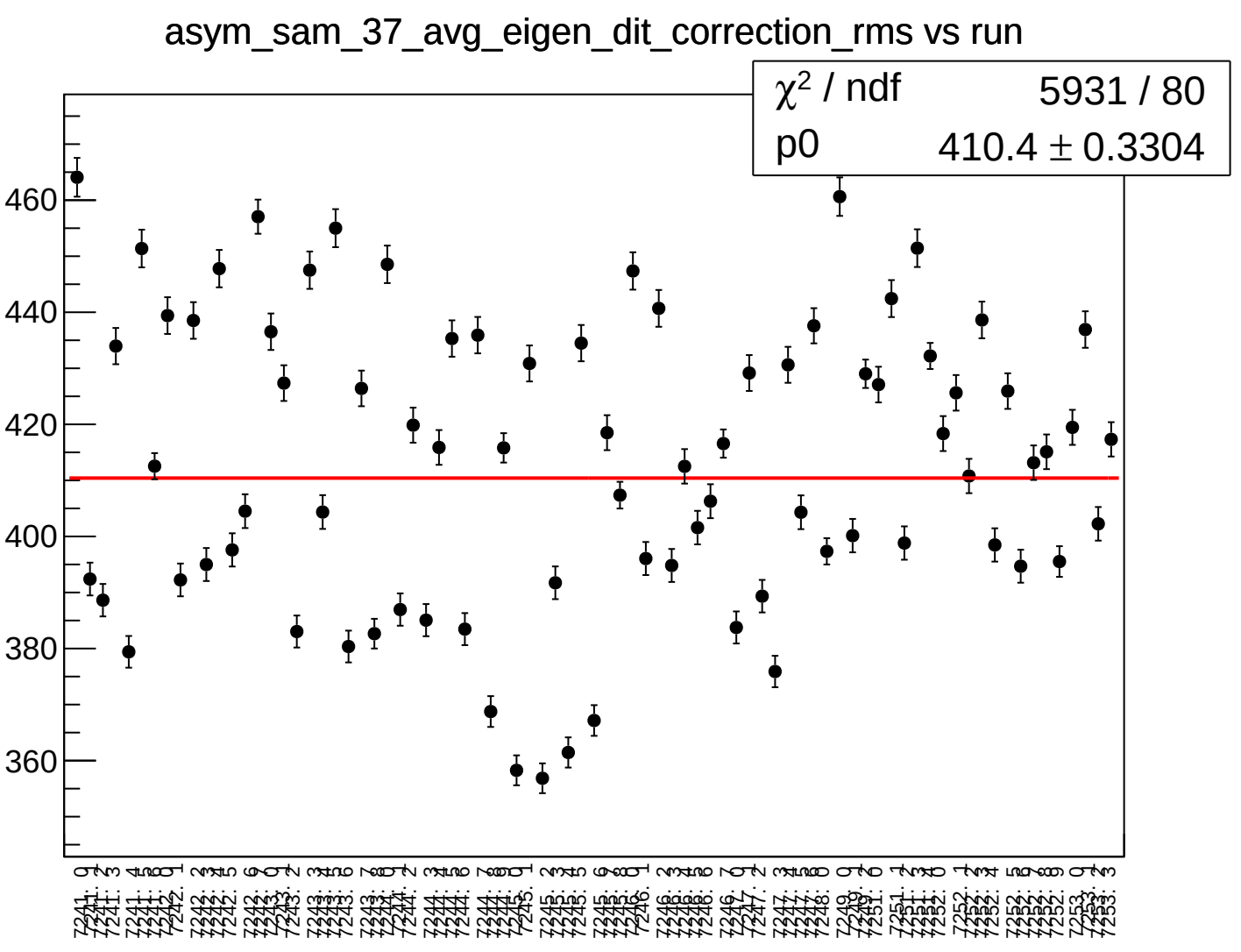

eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 72.33 / 80
p0 12.4 ± 65.91
pull
Entries 81
Mean 2060
Std Dev 0

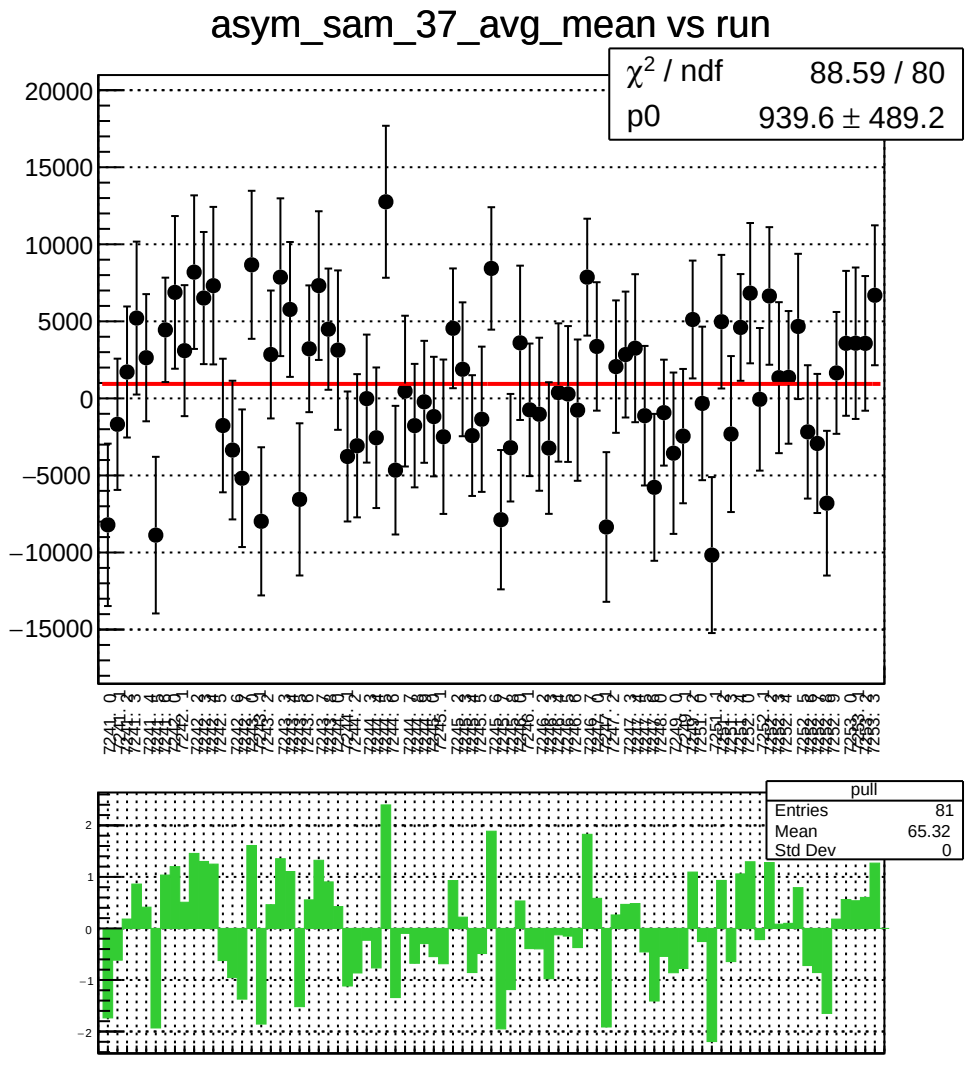

pull1D
Entries 81
Mean 0.001628
Std Dev 0.945

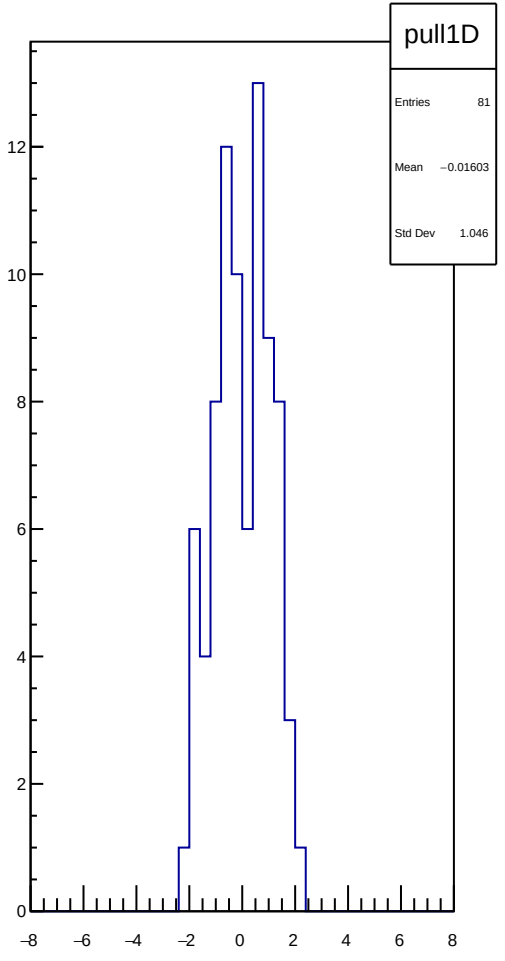

eigen_dit_asym_sam_37_avg_rms vs run
χ² / ndf 1.183e+04 / 80
p0 57.78 ± 0.0466
80
75
70
65
60
55
50

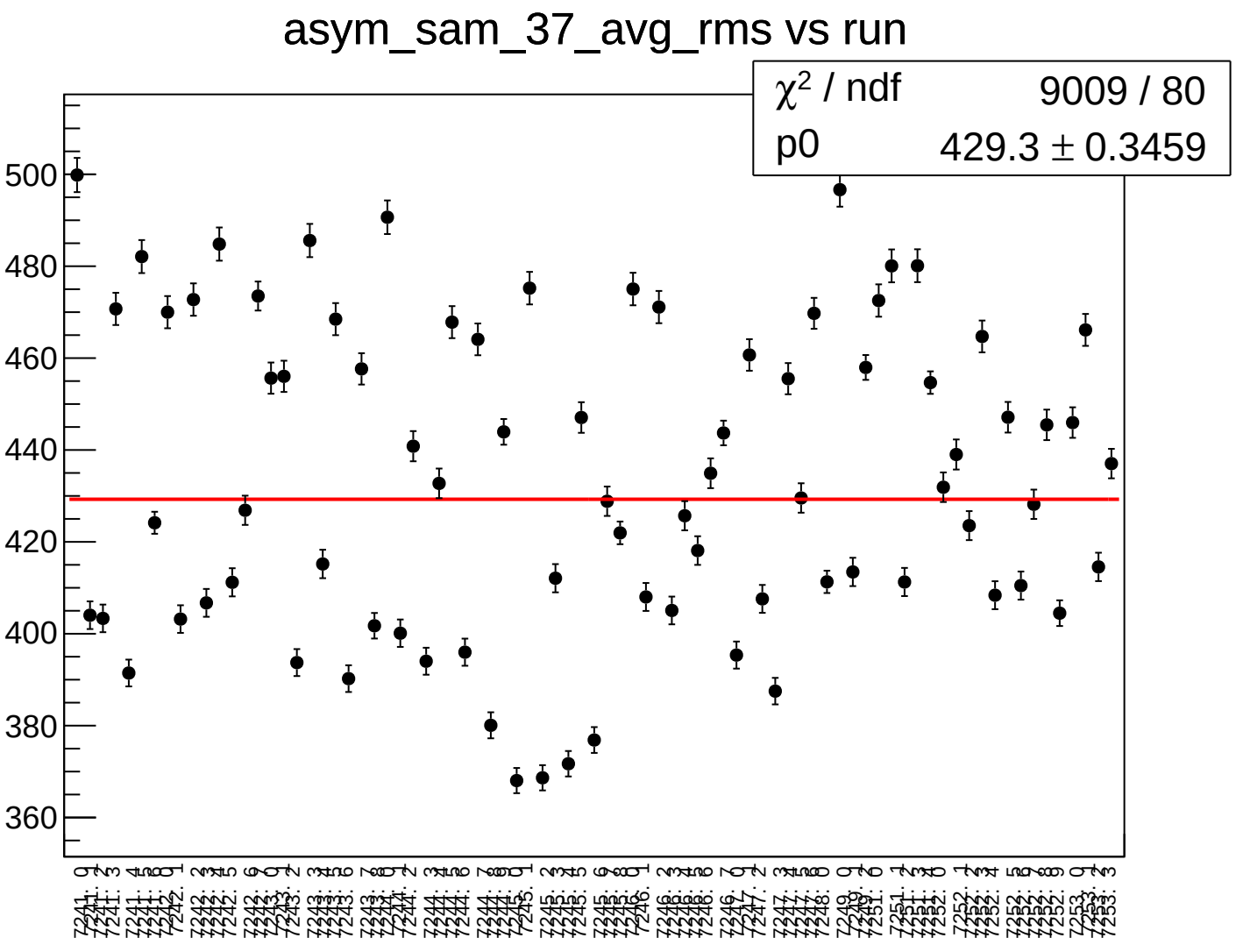

asym_sam_37_avg_eigen_dit_correction_mean vs run
χ² / ndf 87.39 / 80
p0 −910.6 ± 467.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean 103.5
Std Dev 0
2
1
0
−1
−2

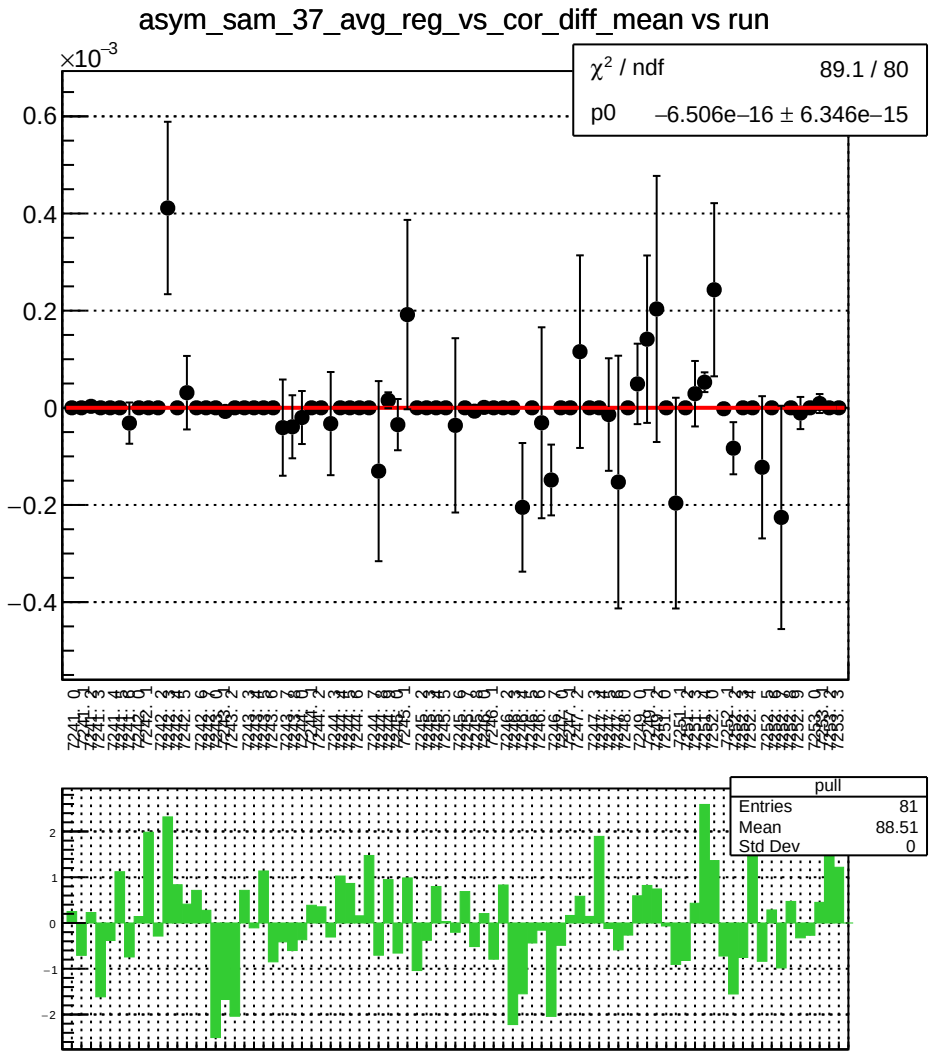

pull1D
Entries 81
Mean 0.01533
Std Dev 1.039
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

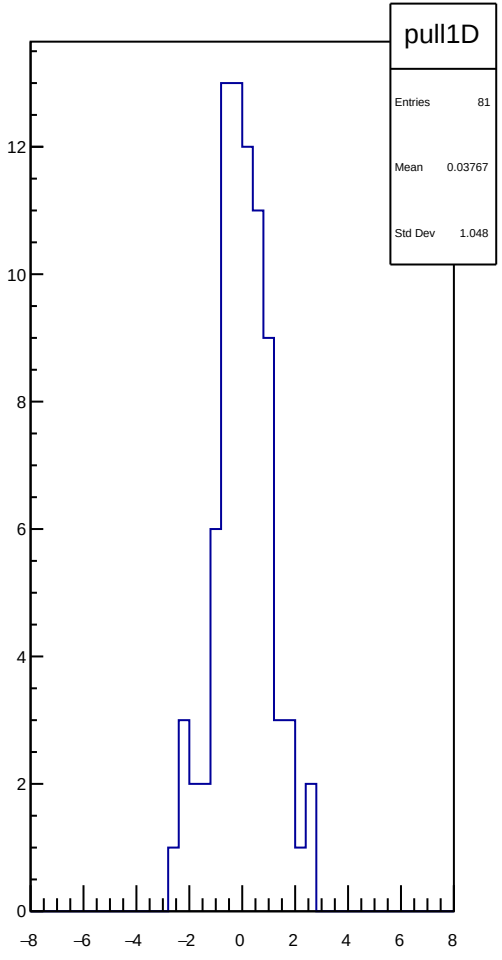

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 5931 / 80
p0 410.4 ± 0.3304
460
440
420
400
380
360

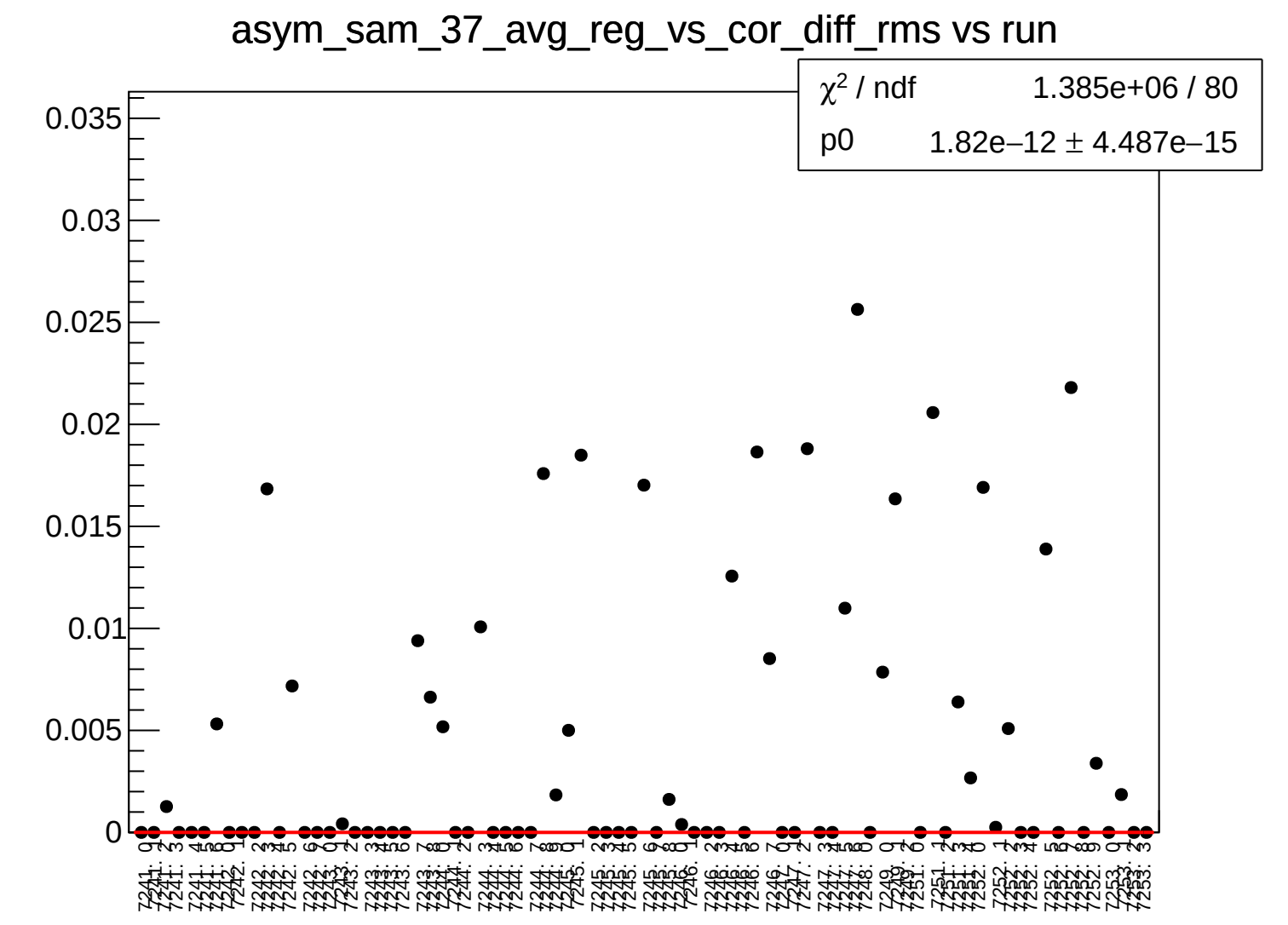

asym_sam_37_avg_mean vs run
χ² / ndf 88.59 / 80
p0 939.6 ± 489.2
pull
Entries 81
Mean 65.32
Std Dev 0

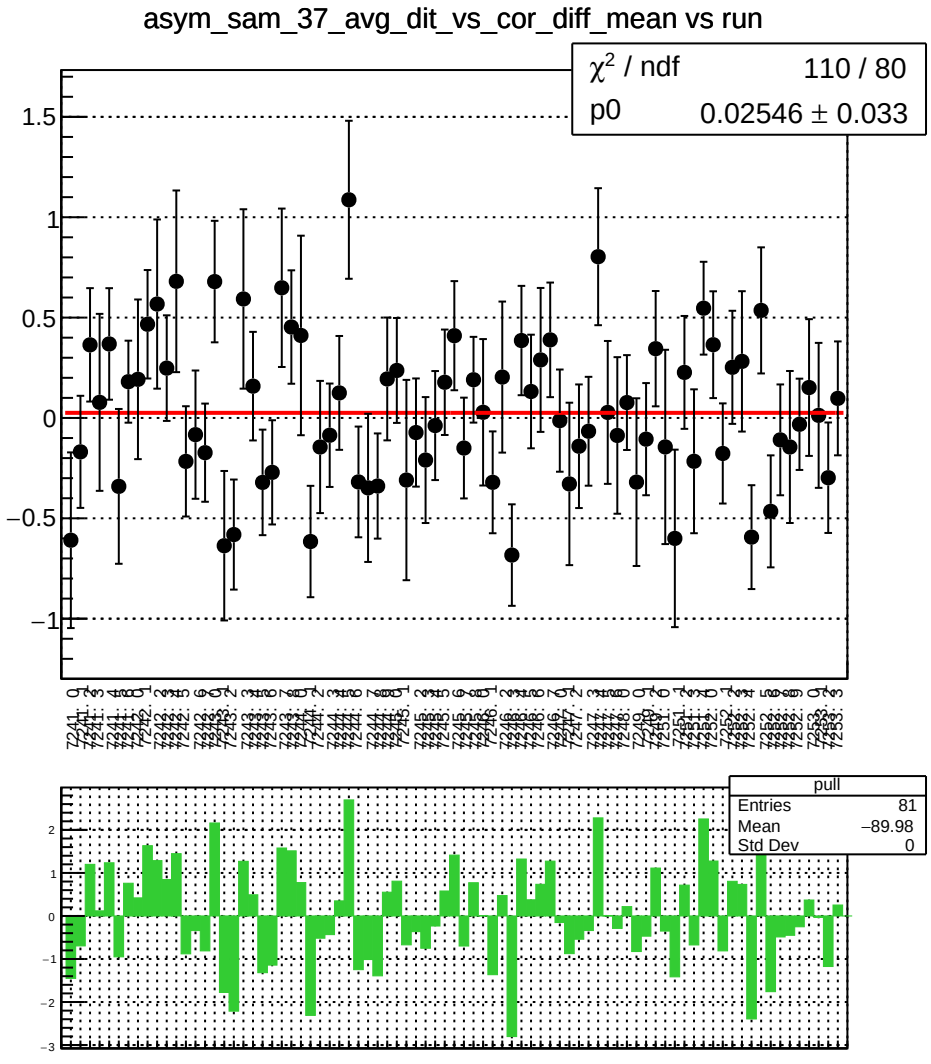

pull1D
Entries 81
Mean −0.01603
Std Dev 1.046

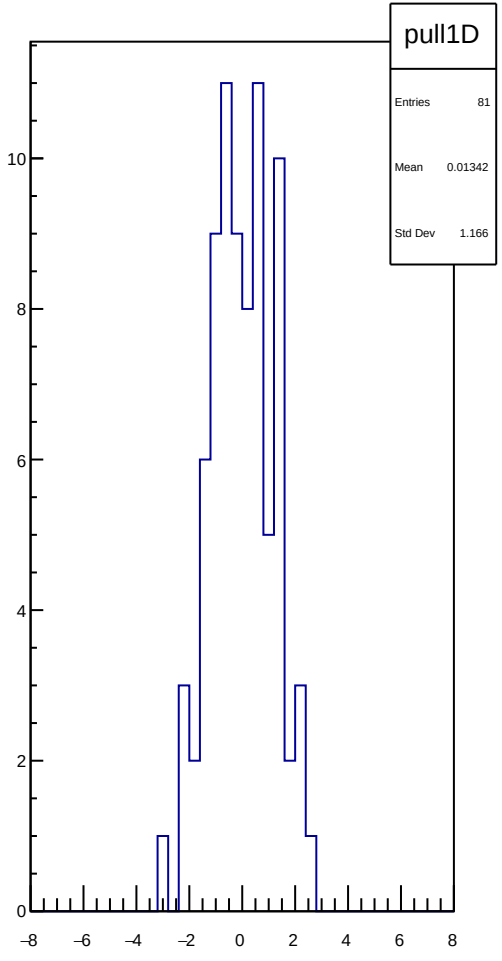

asym_sam_37_avg_rms vs run
χ^2 / ndf 9009 / 80
p0 429.3 ± 0.3459
500
480
460
440
420
400
380
360

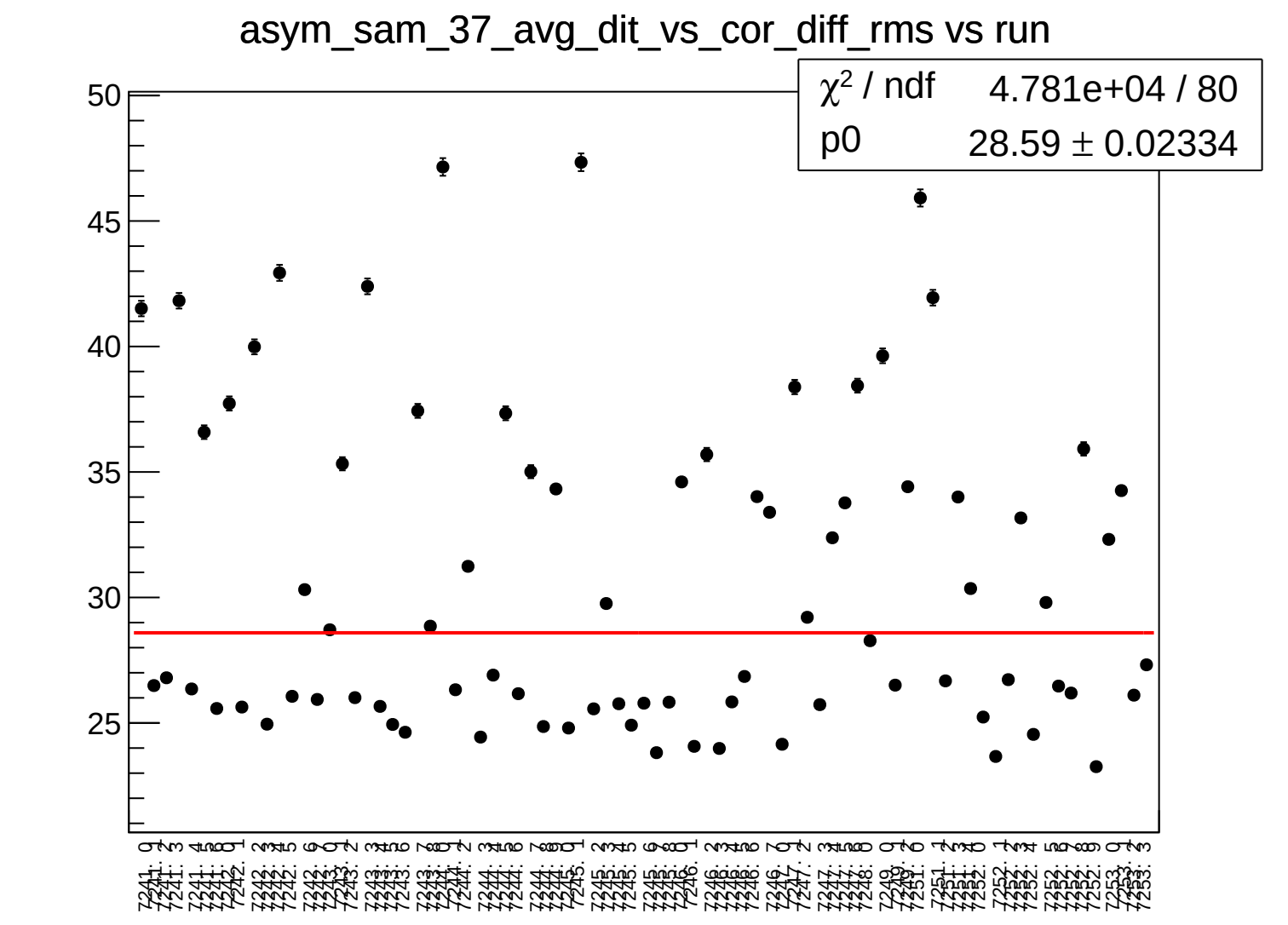

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 89.1 / 80
p0 −6.506e−16 ± 6.346e−15
pull
Entries 81
Mean 88.51
Std Dev 0

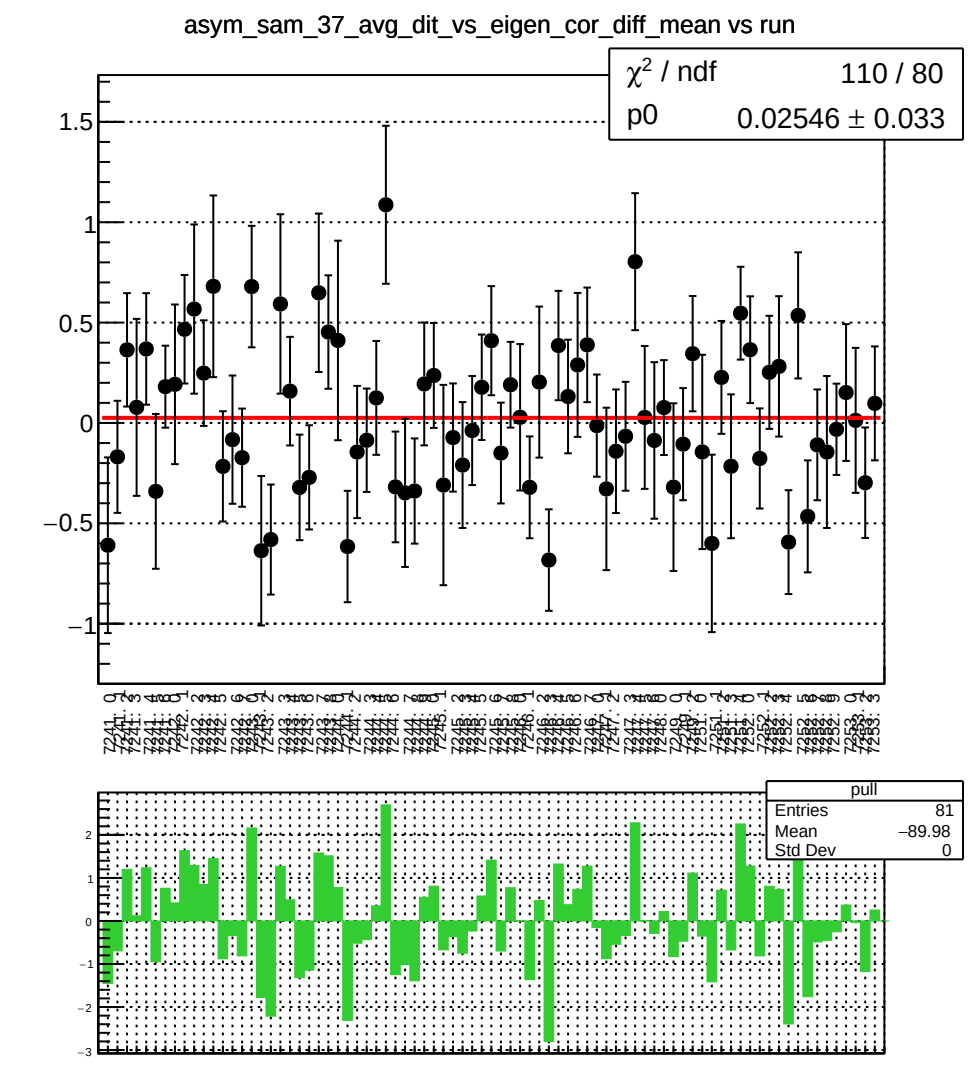

pull1D
Entries 81
Mean 0.03767
Std Dev 1.048

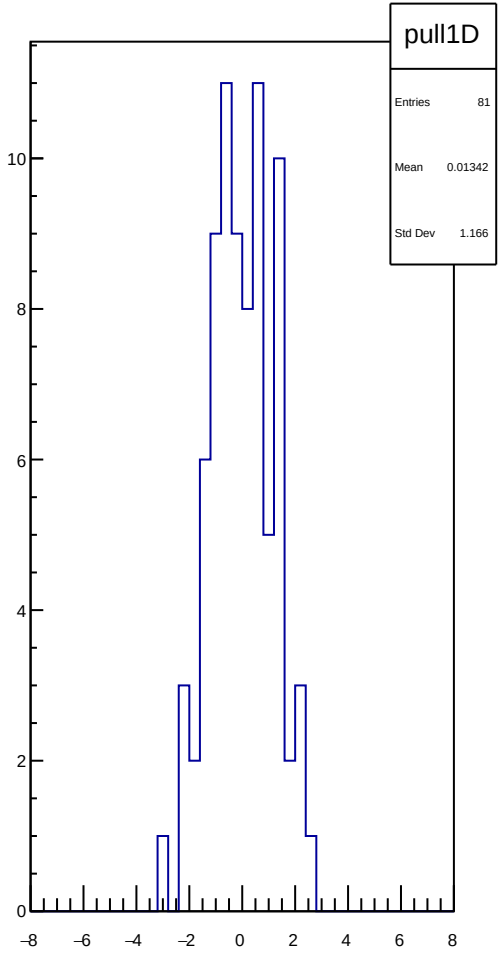

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.385e+06 / 80
p0 1.82e−12 ± 4.487e−15
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

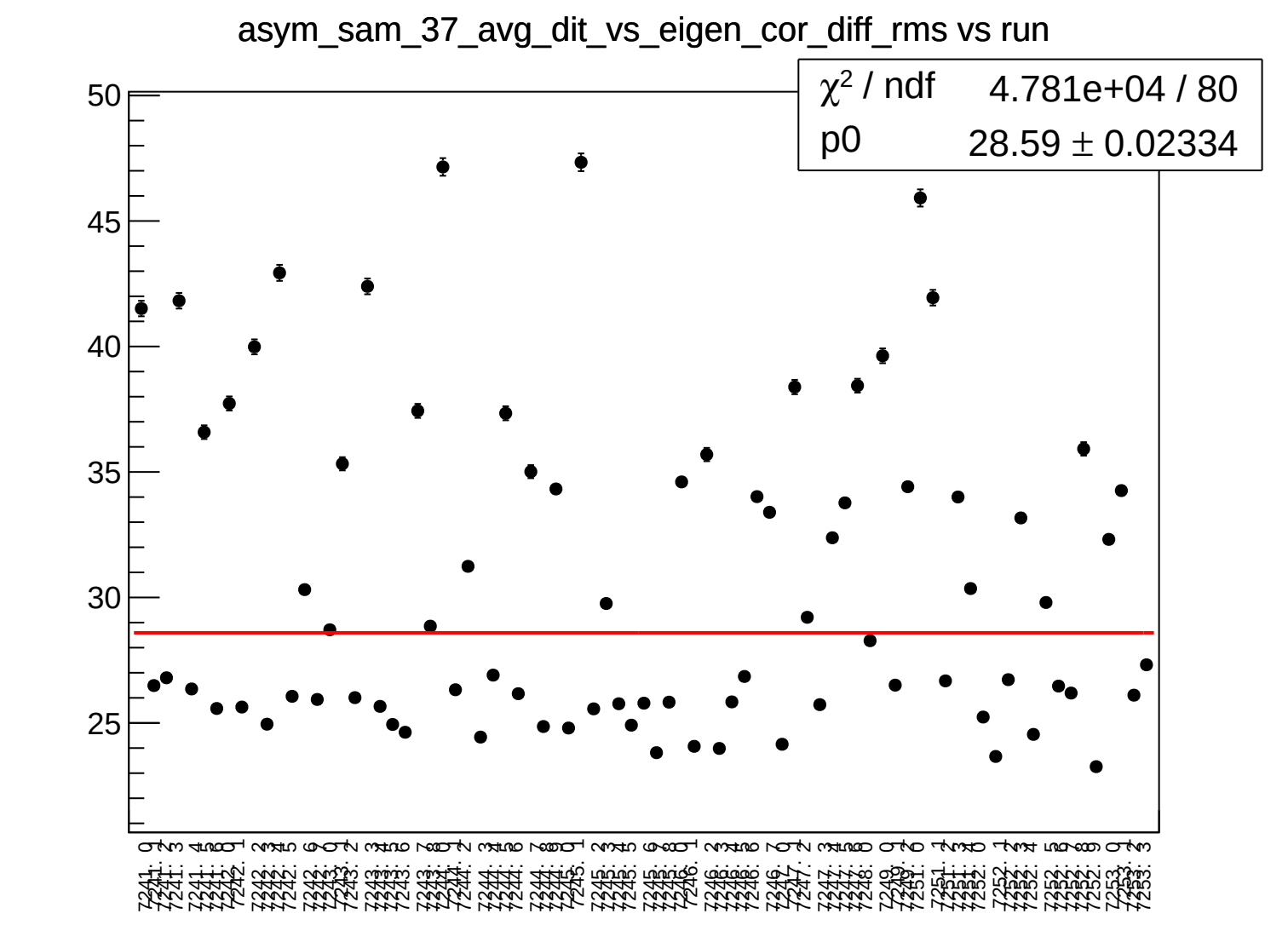

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 110 / 80
p0 0.02546 ± 0.033
pull
Entries 81
Mean −89.98
Std Dev 0

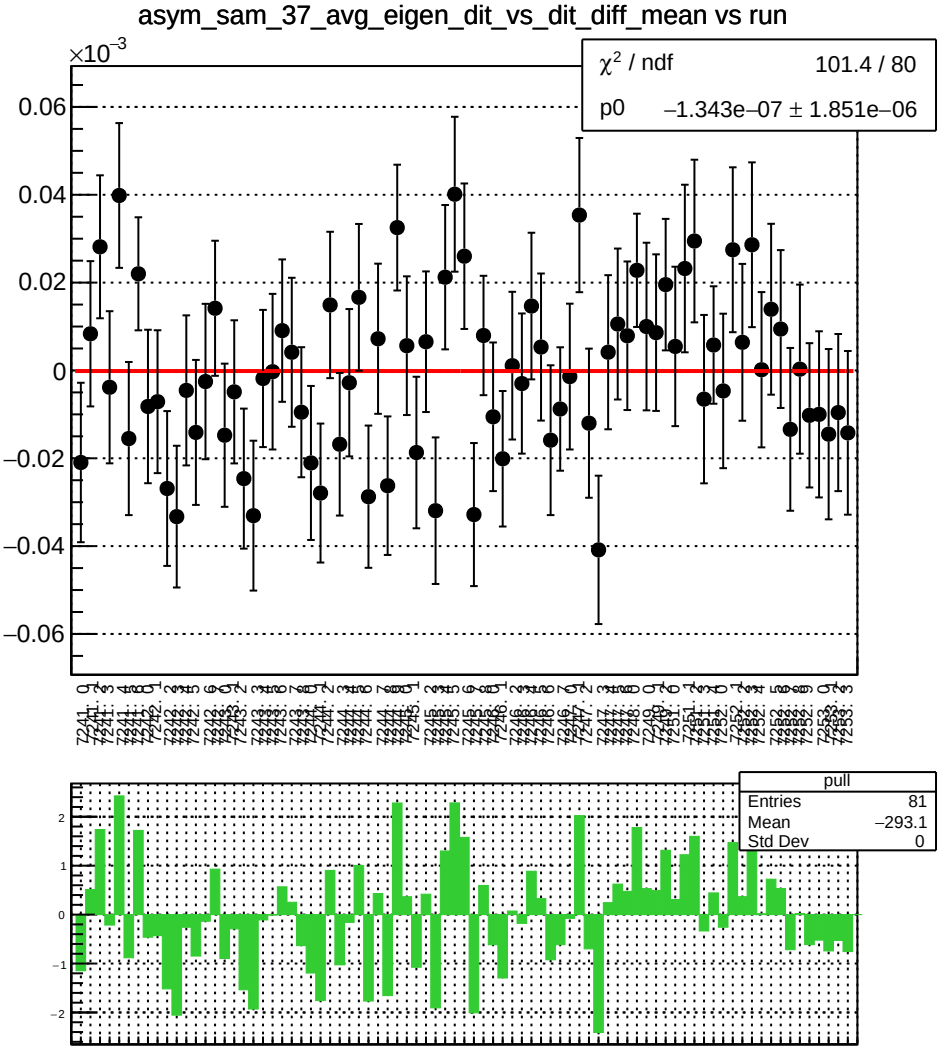

pull1D
Entries 81
Mean 0.01342
Std Dev 1.166

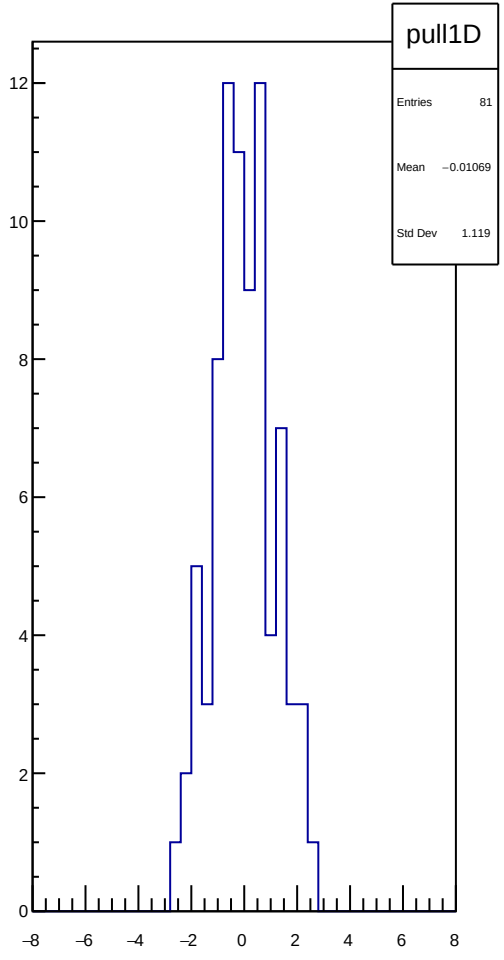

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.781e+04 / 80
p0 28.59 ± 0.02334
50
45
40
35
30
25

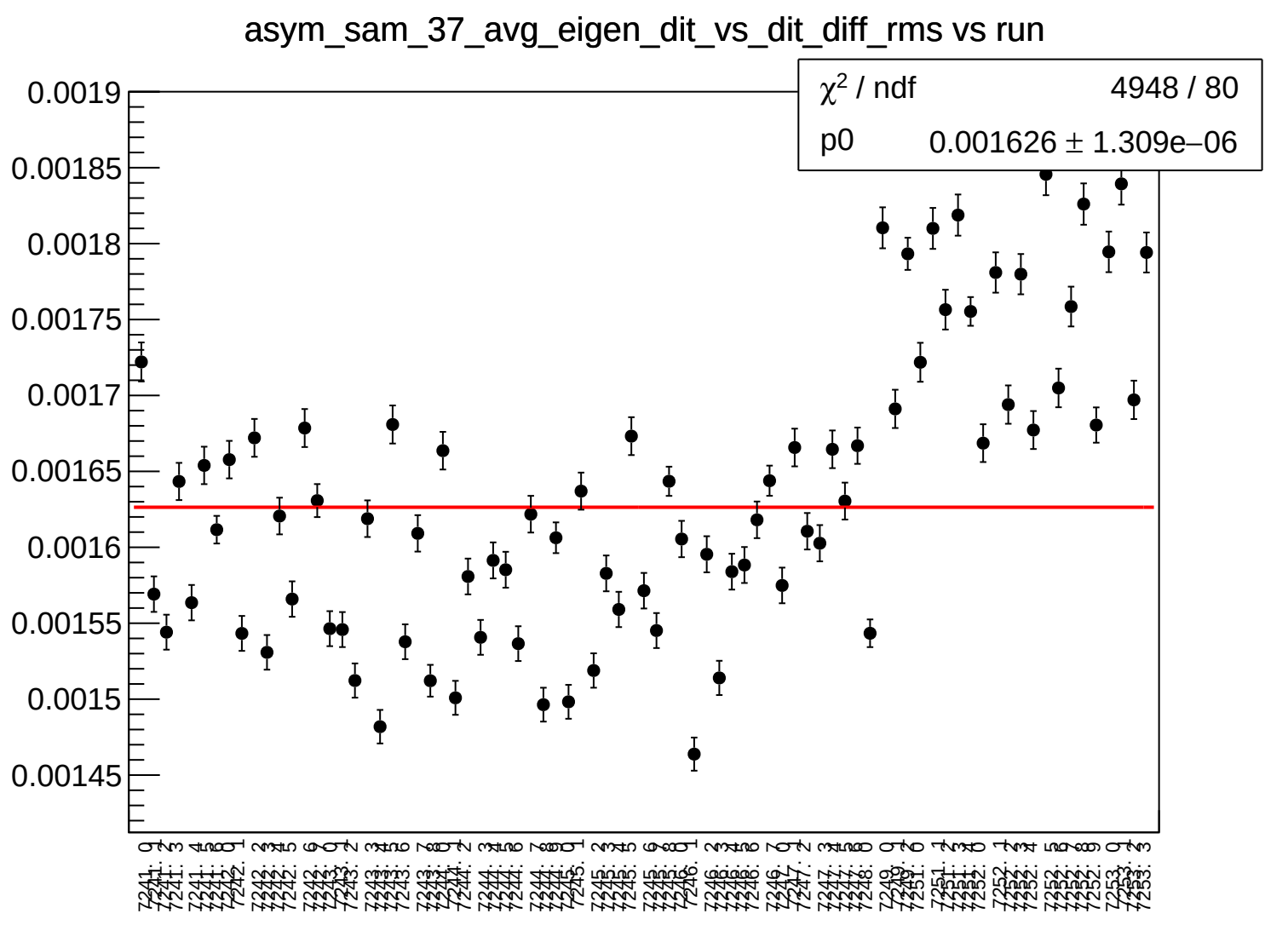

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110 / 80
p0 0.02546 ± 0.033
pull
Entries 81
Mean −89.98
Std Dev 0

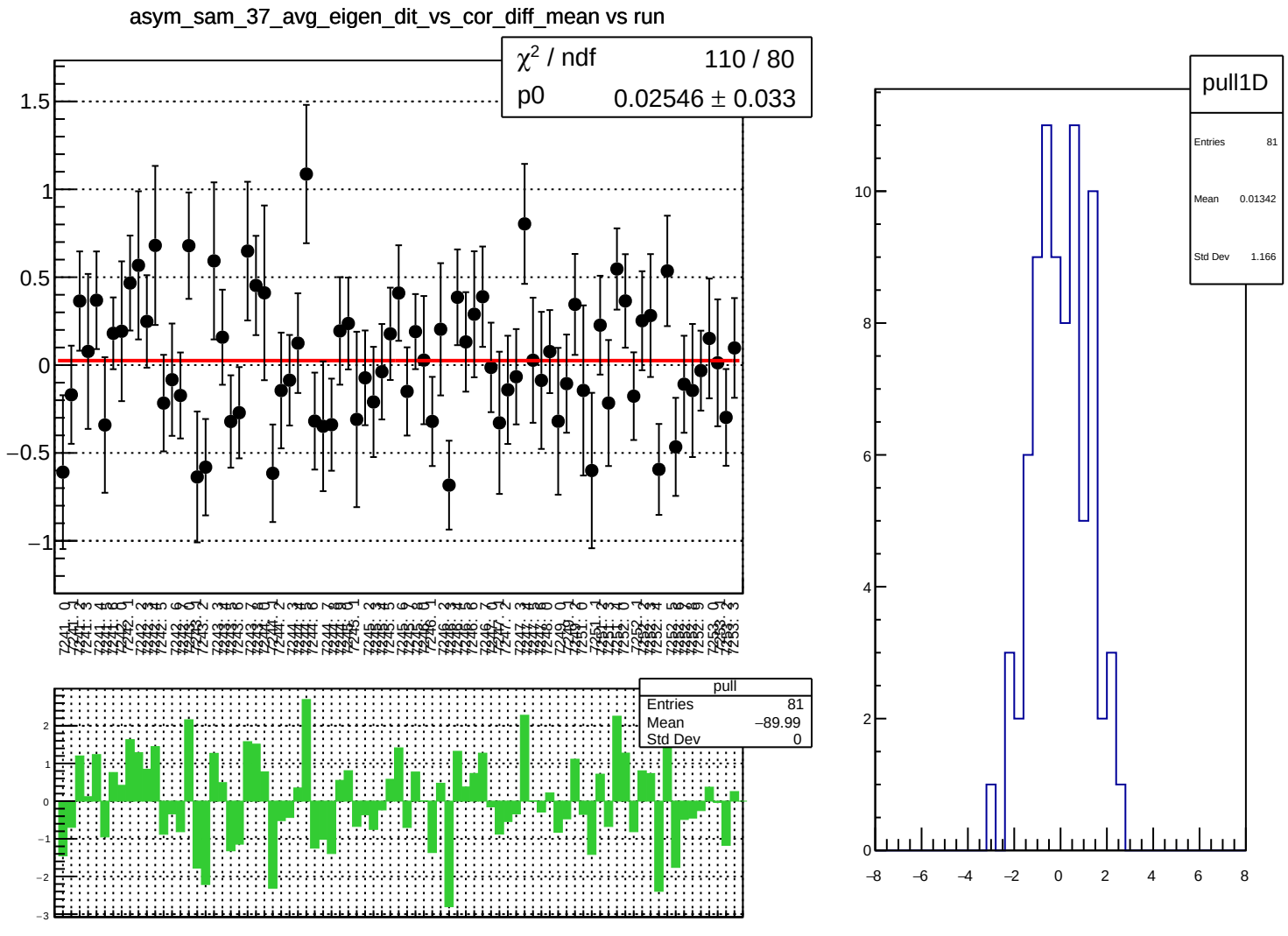

pull1D
Entries 81
Mean 0.01342
Std Dev 1.166

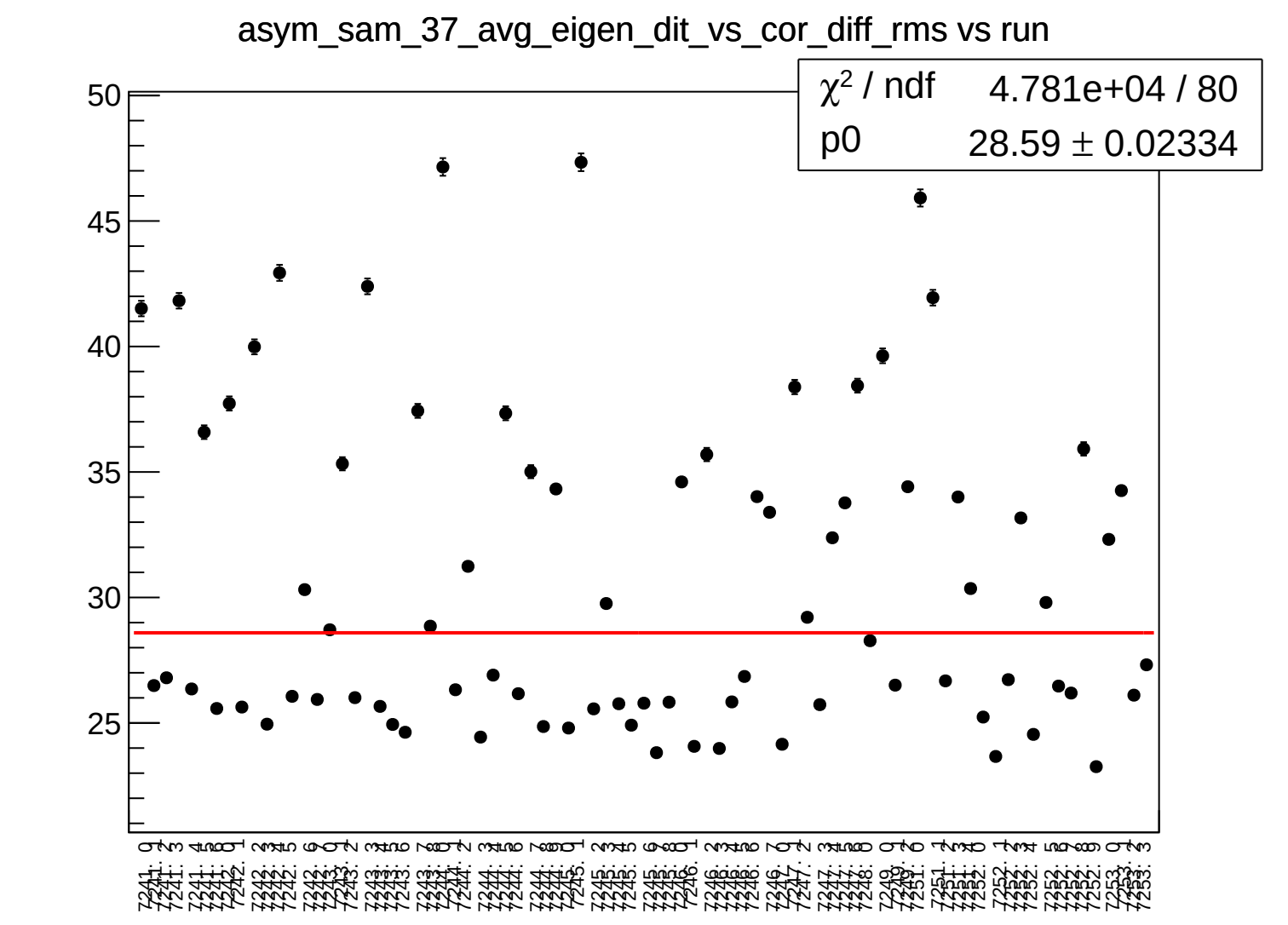

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.781e+04 / 80
p0 28.59 ± 0.02334
50
45
40
35
30
25

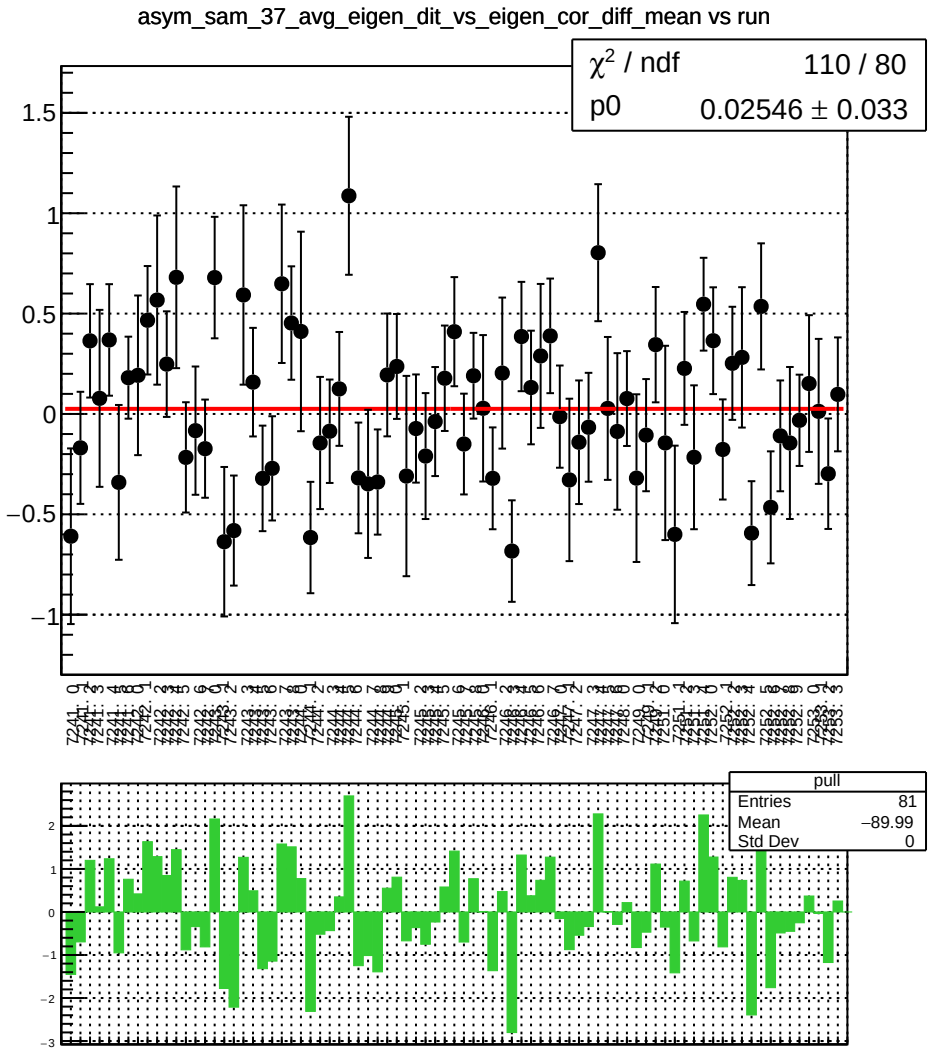

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.4 / 80
p0 −1.343e−07 ± 1.851e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 81
Mean −293.1
Std Dev 0
2
1
0
−1
−2

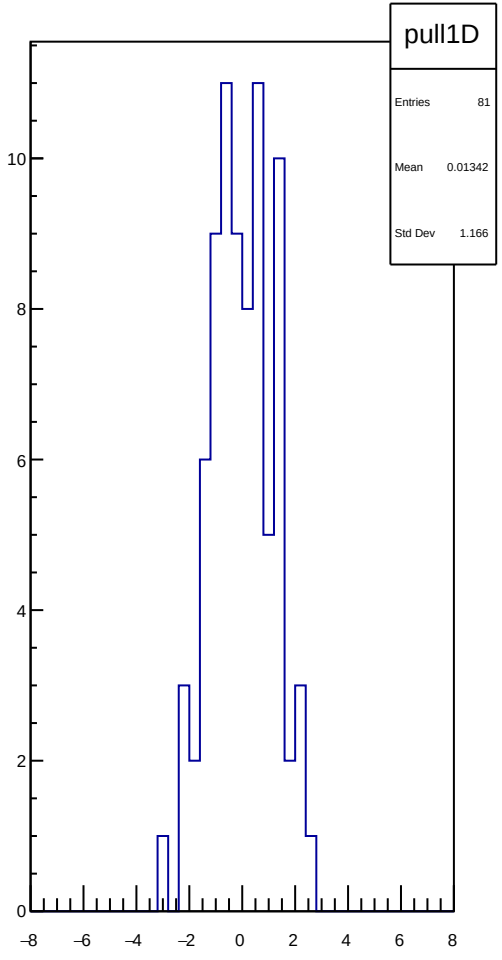

pull1D
Entries 81
Mean −0.01069
Std Dev 1.119
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

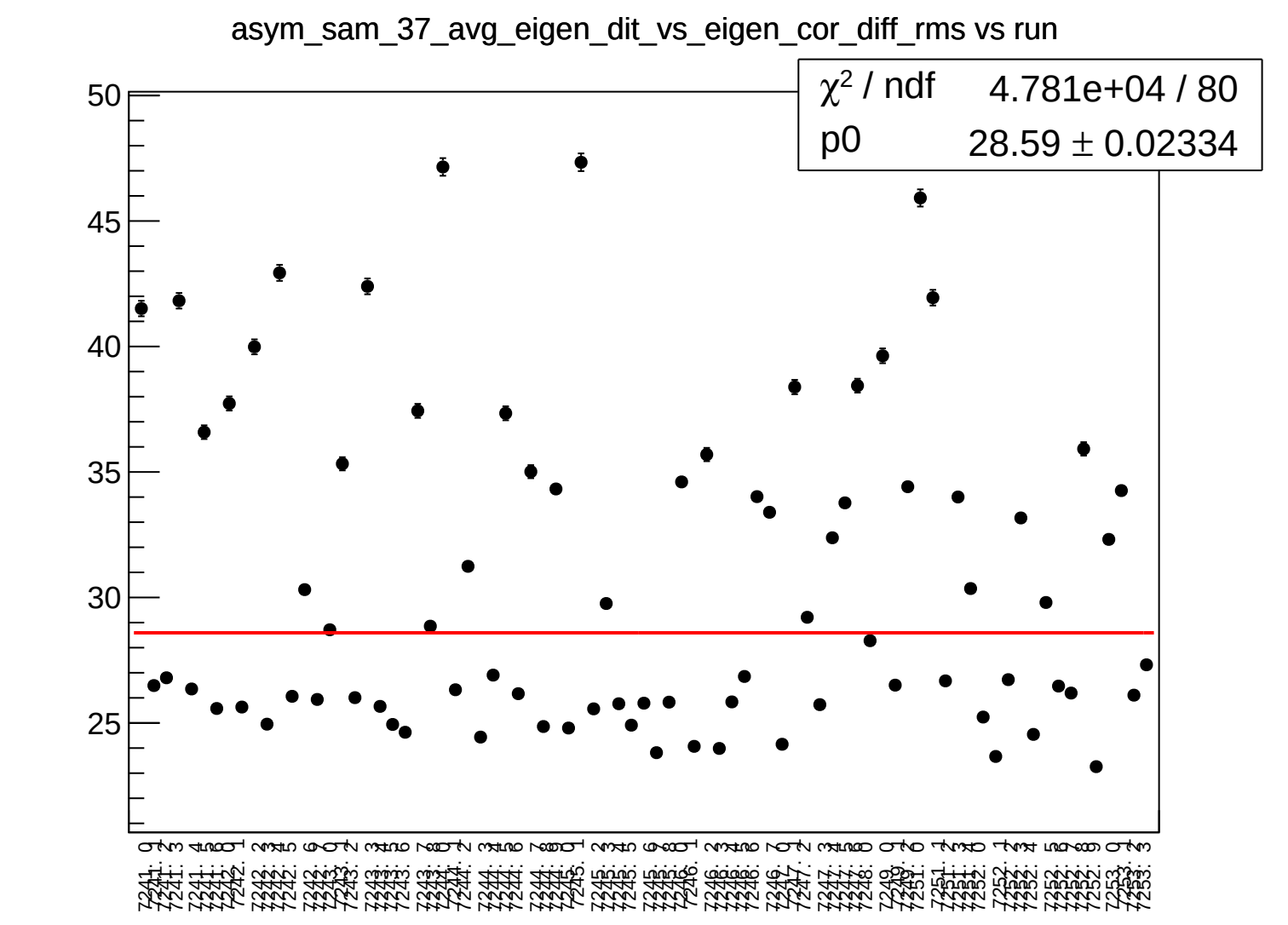

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4948 / 80
p0 0.001626 ± 1.309e−06
0.0019
0.00185
0.0018
0.00175
0.0017
0.00165
0.0016
0.00155
0.0015
0.00145

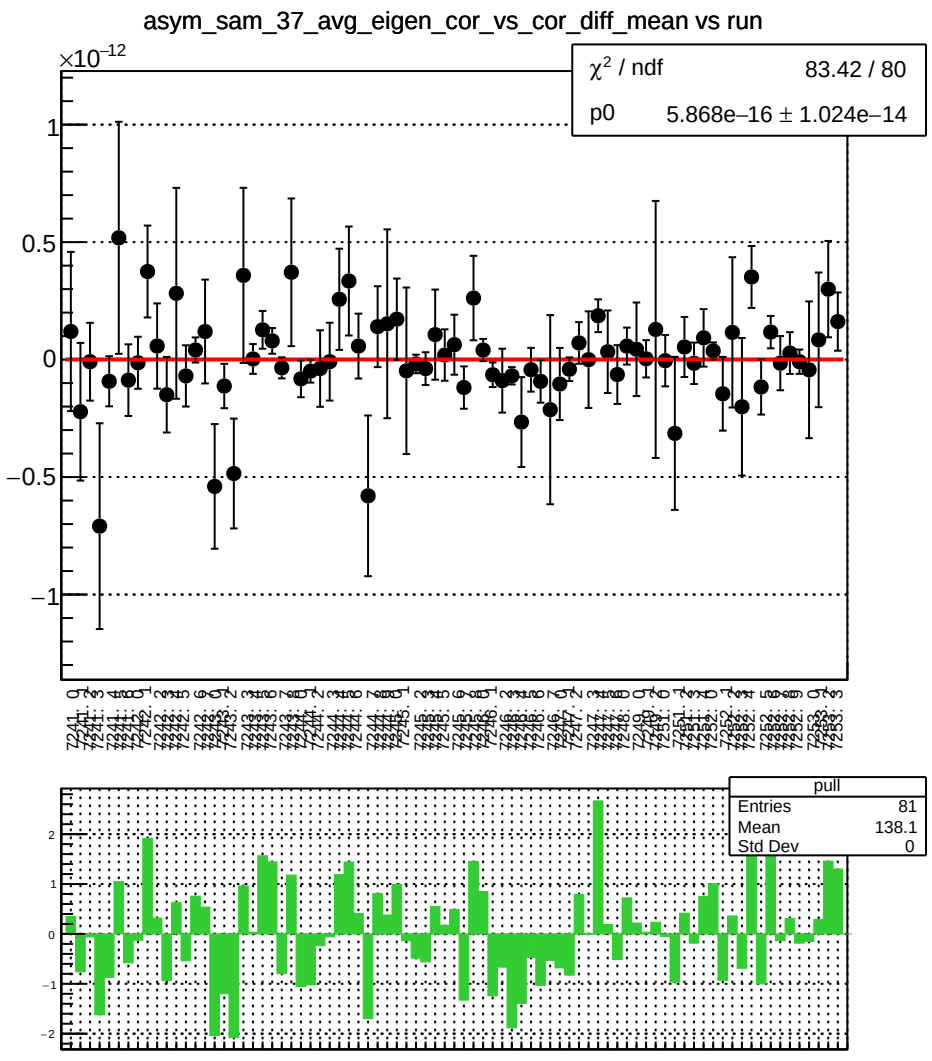

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 110 / 80
p0 0.02546 ± 0.033
pull
Entries 81
Mean −89.99
Std Dev 0
pull1D
Entries 81
Mean 0.01342
Std Dev 1.166

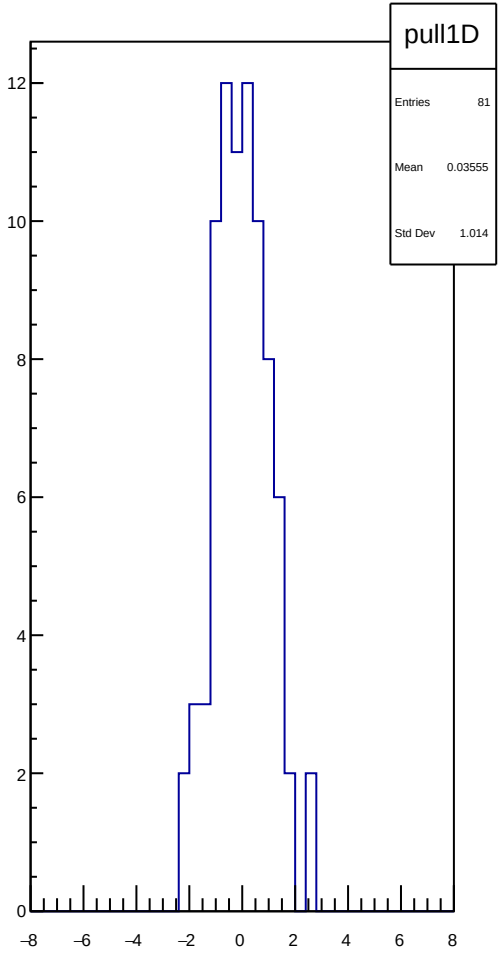

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.781e+04 / 80
p0 28.59 ± 0.02334
50
45
40
35
30
25

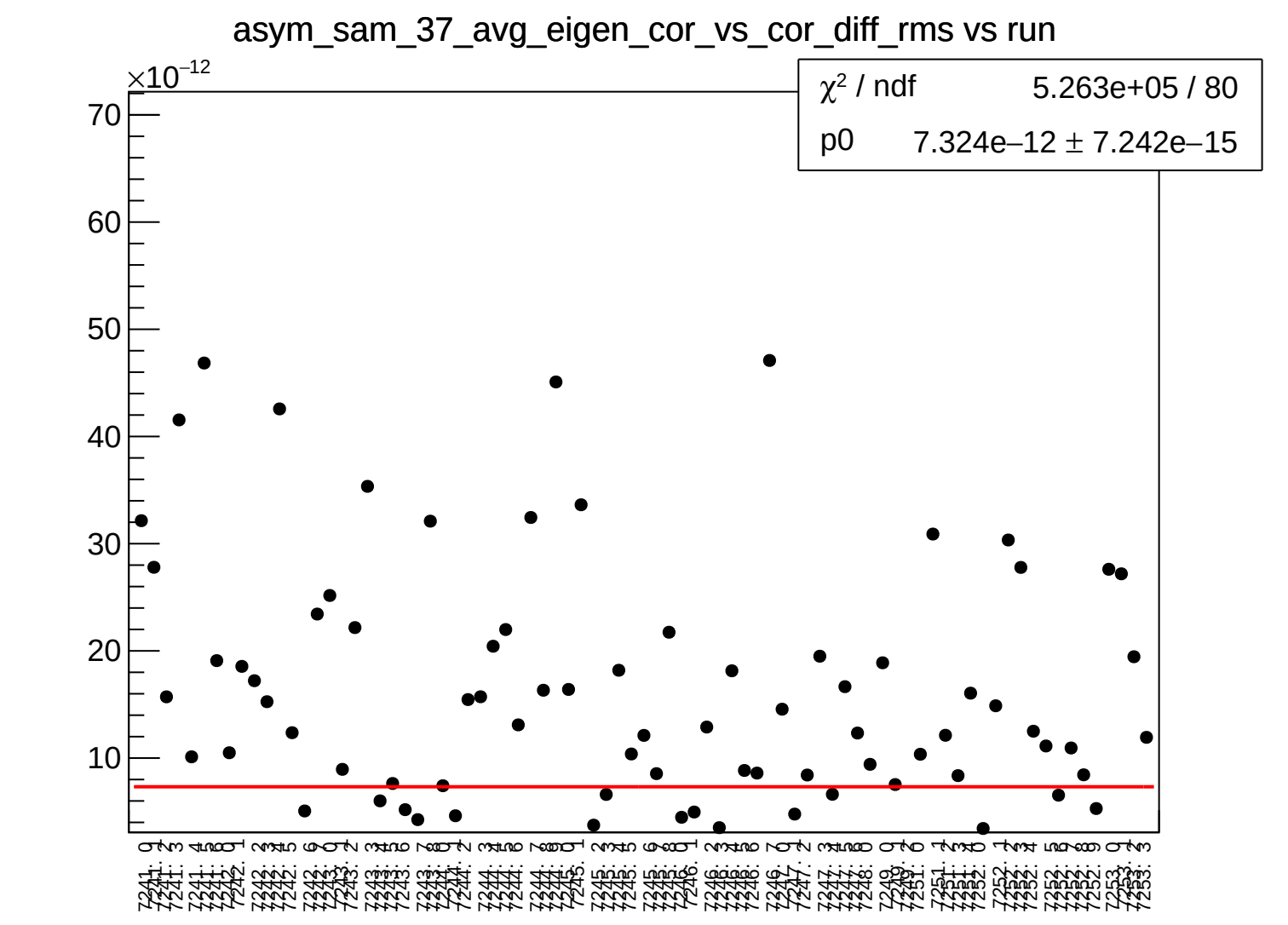

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110 / 80
p0 0.02546 ± 0.033
pull
Entries 81
Mean −89.99
Std Dev 0

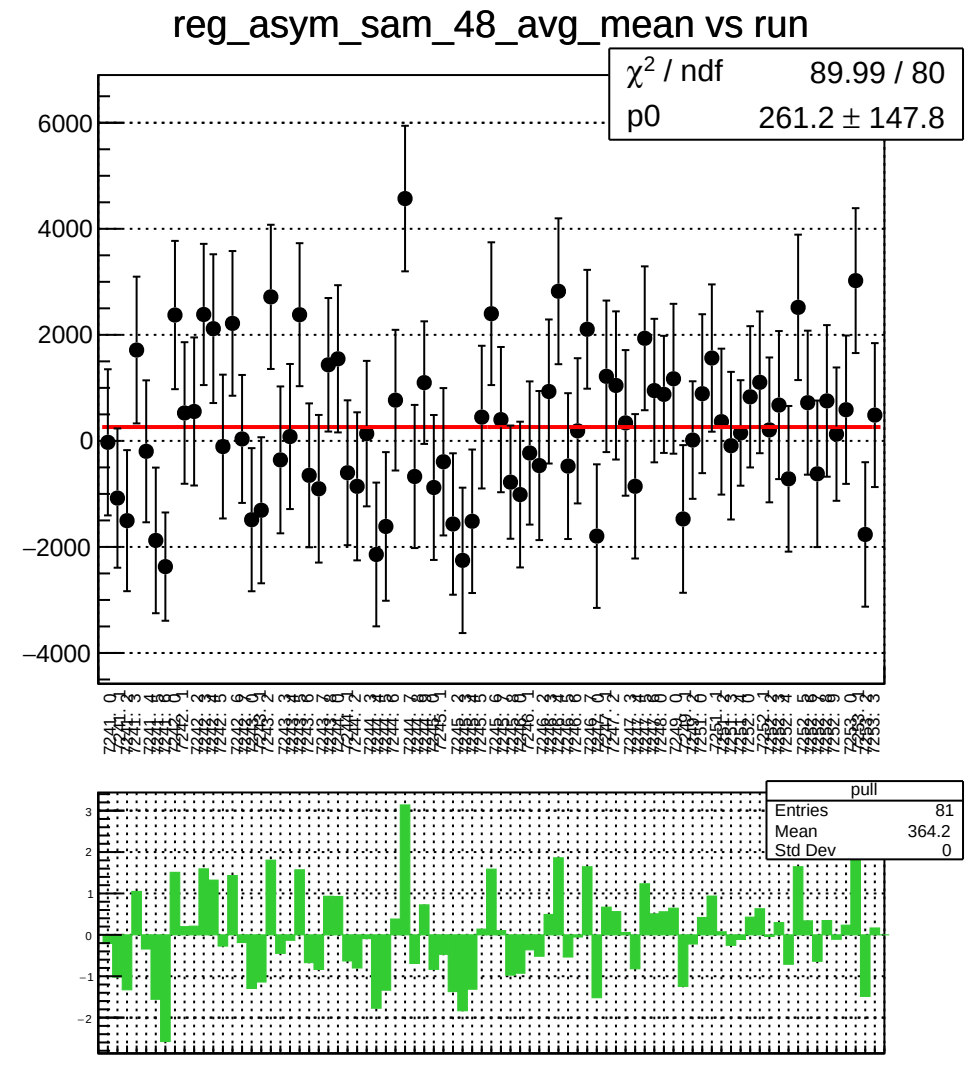

pull1D
Entries 81
Mean 0.01342
Std Dev 1.166

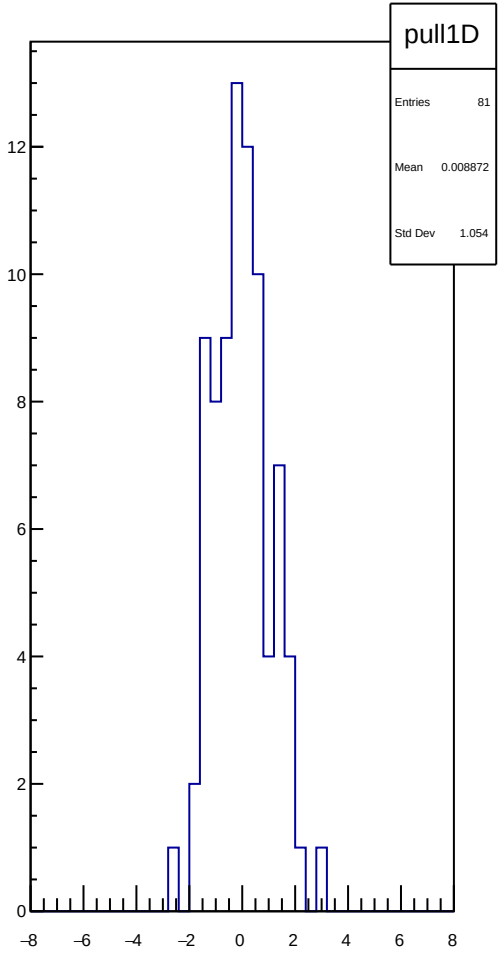

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.781e+04 / 80
p0 28.59 ± 0.02334
50
45
40
35
30
25

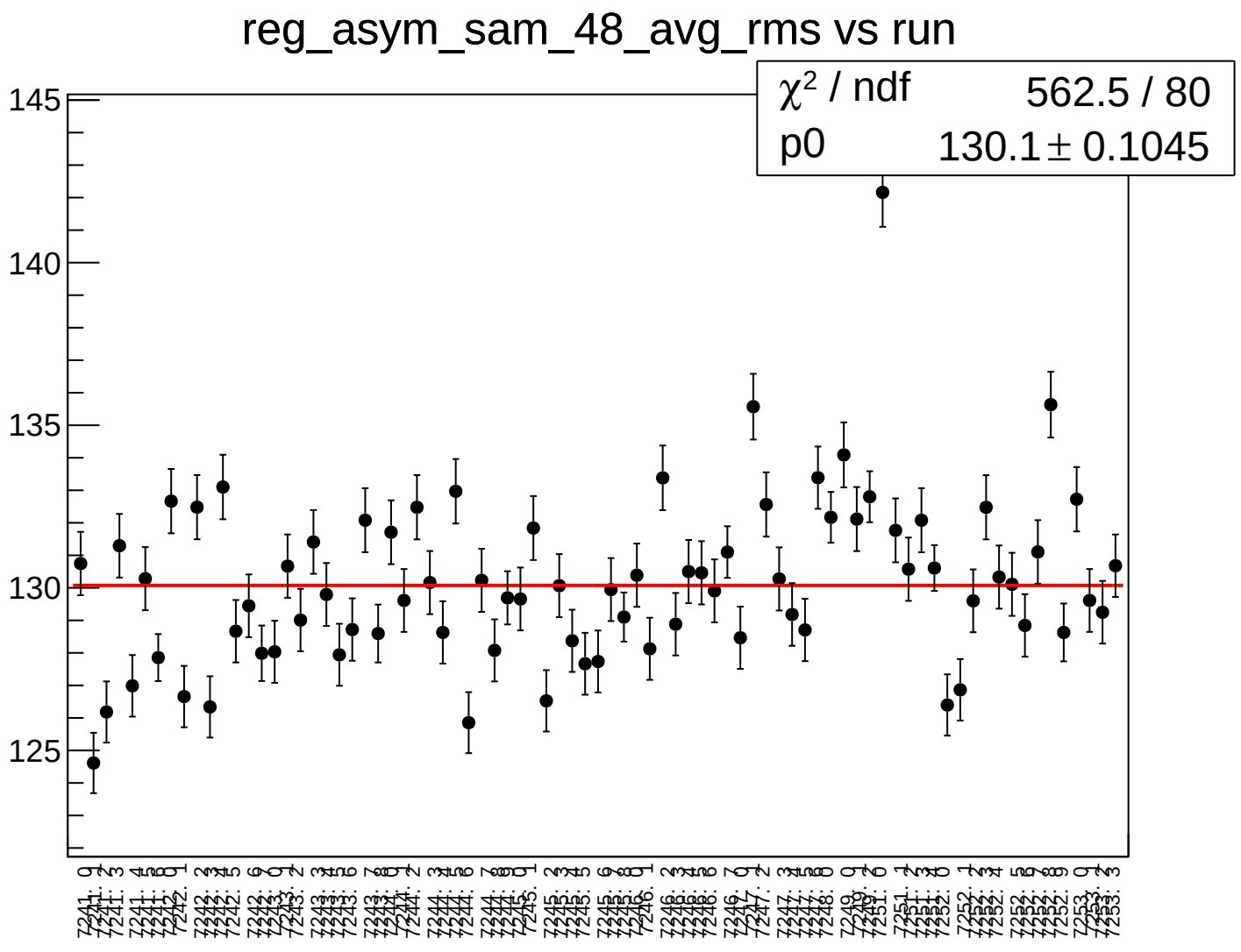

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.42 / 80
p0 5.868e−16 ± 1.024e−14
pull
Entries 81
Mean 138.1
Std Dev 0

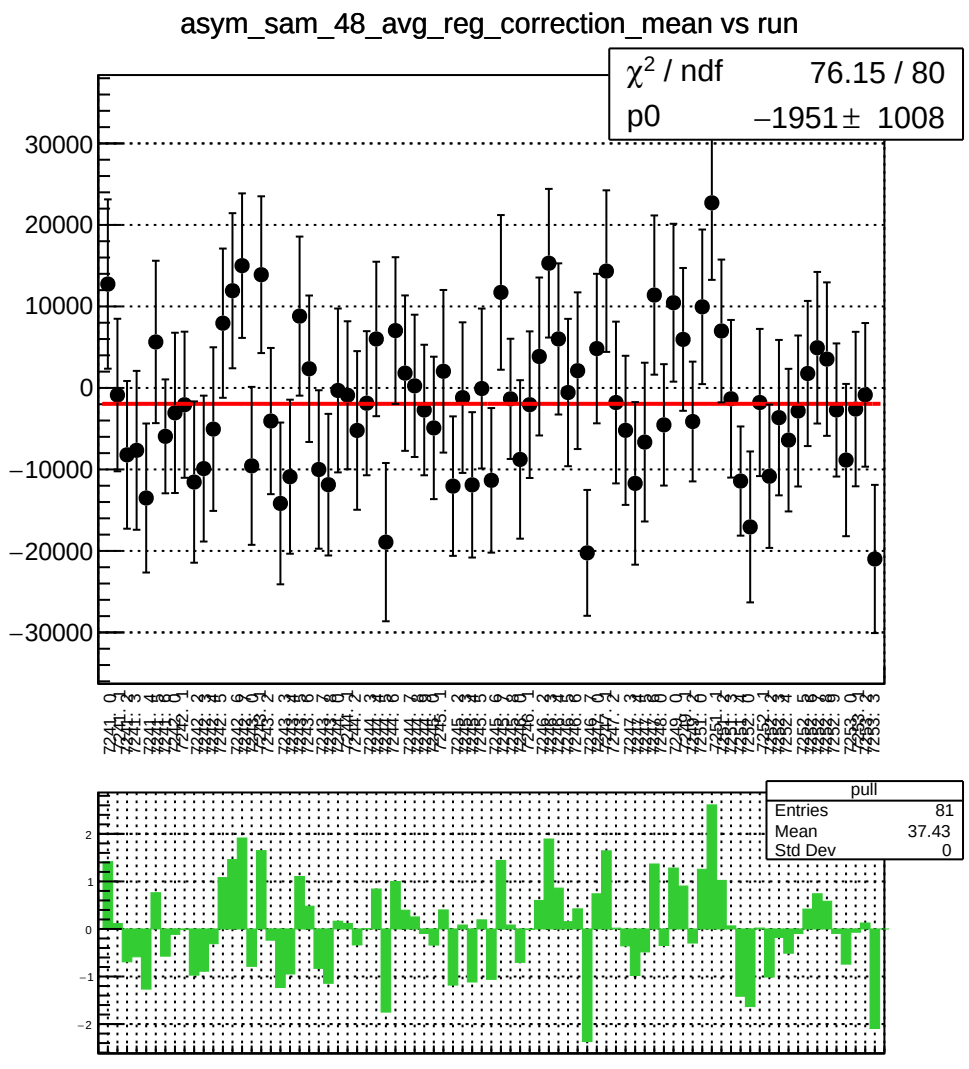

pull1D
Entries 81
Mean 0.03555
Std Dev 1.014

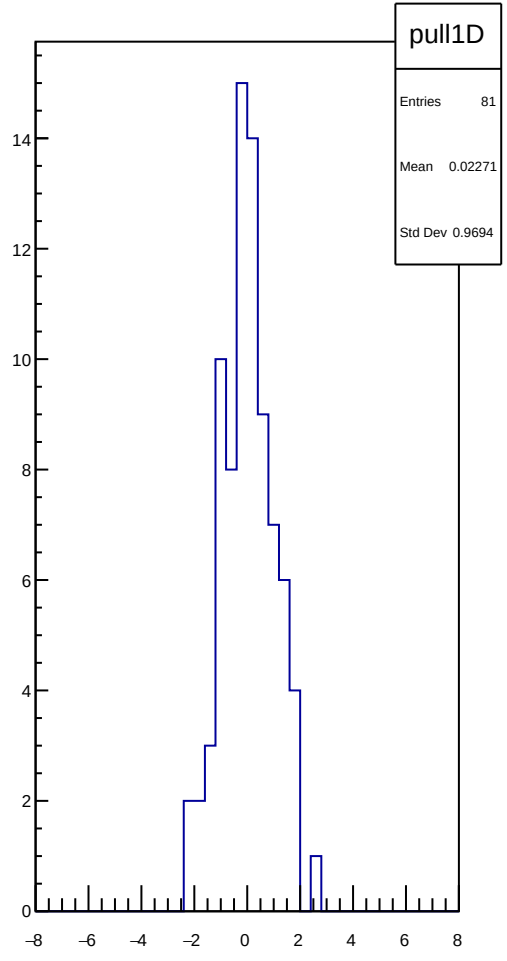

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.263e+05 / 80
p0 7.324e−12 ± 7.242e−15
70
60
50
40
30
20
10

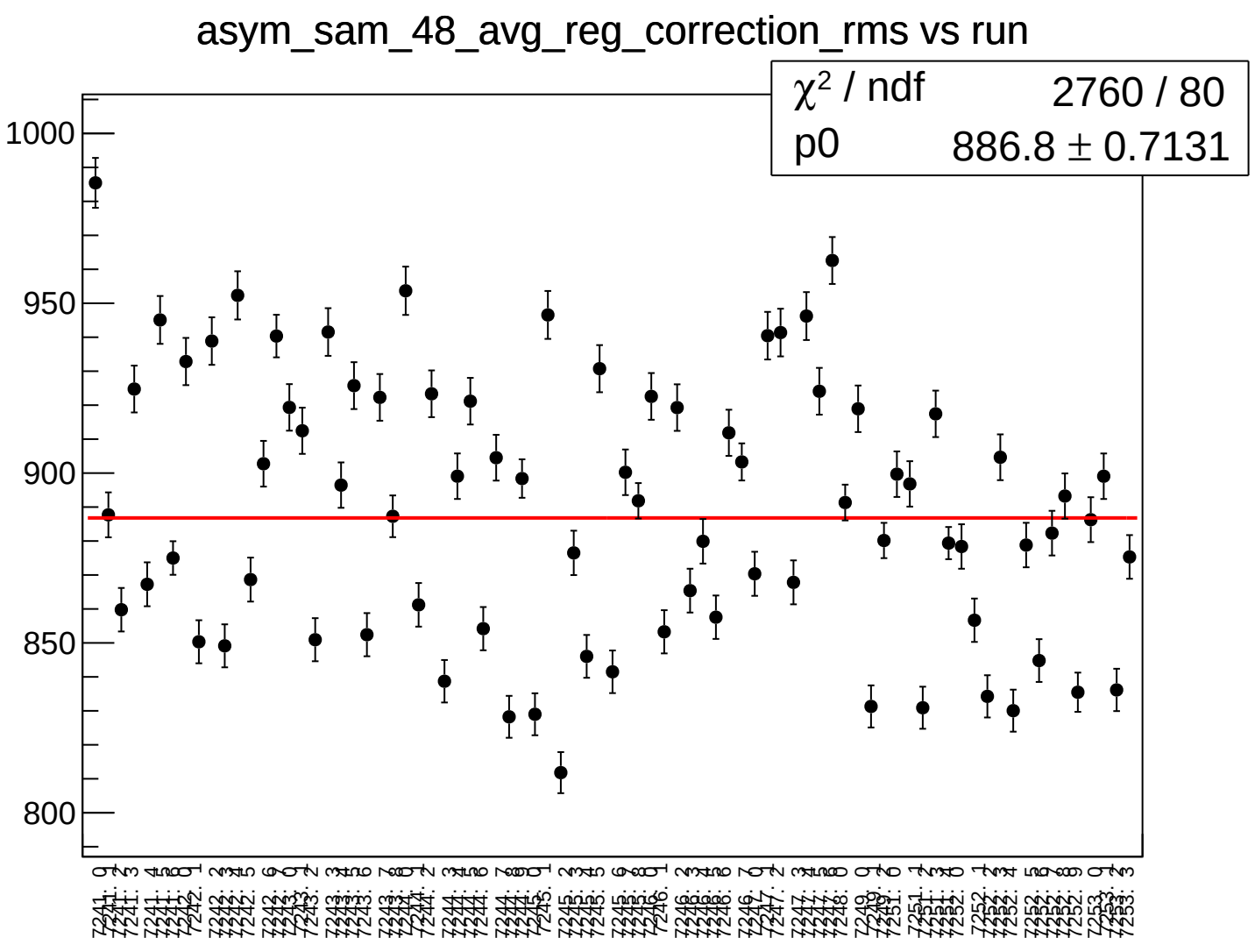

reg_asym_sam_48_avg_mean vs run
χ² / ndf 89.99 / 80
p0 261.2 ± 147.8
pull
Entries 81
Mean 364.2
Std Dev 0

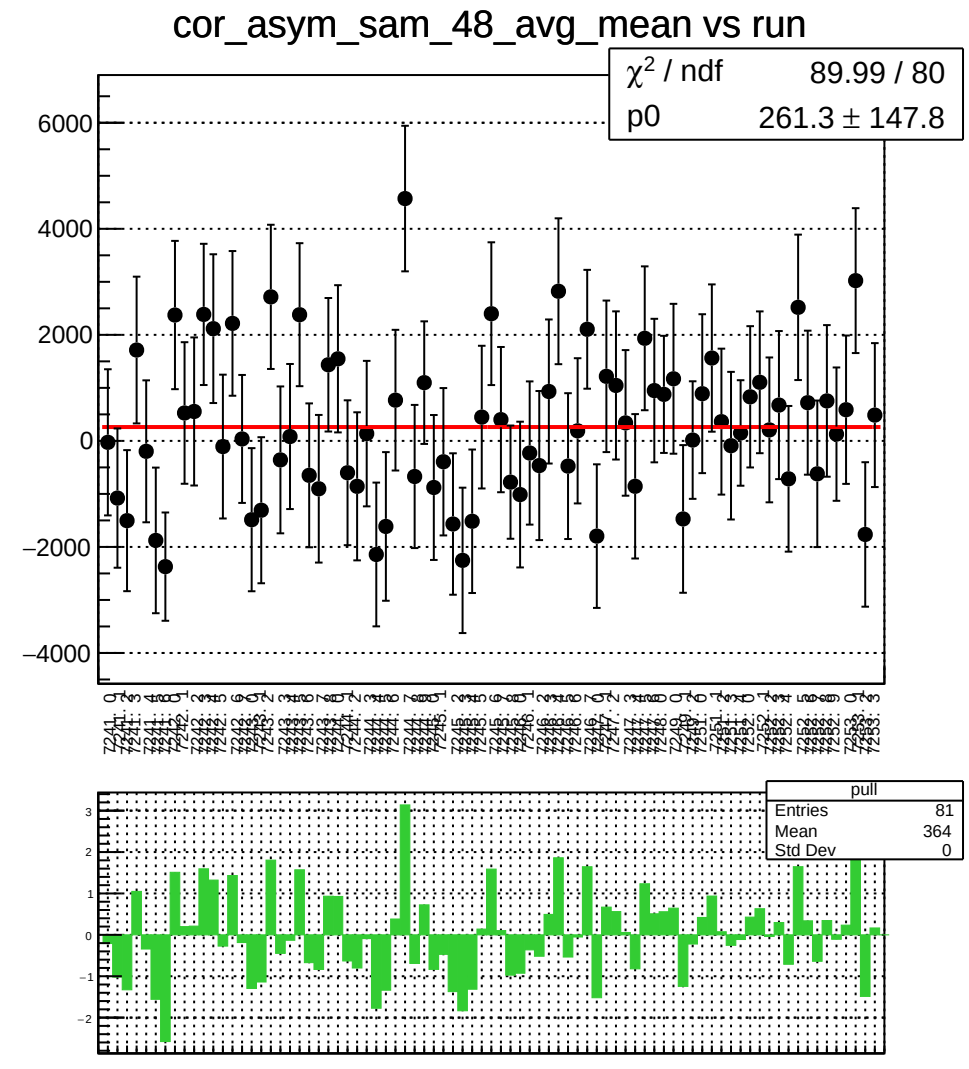

pull1D
Entries 81
Mean 0.008872
Std Dev 1.054

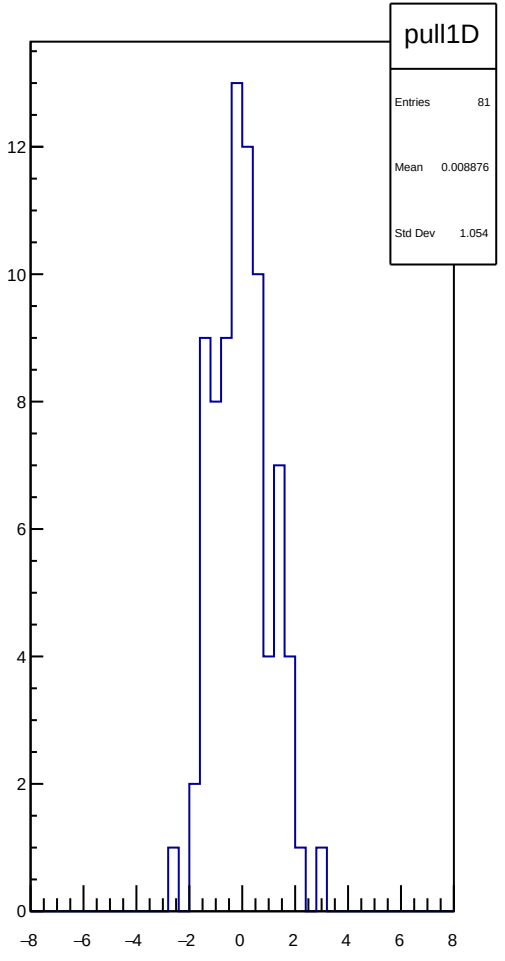

reg_asym_sam_48_avg_rms vs run
χ² / ndf 562.5 / 80
p0 130.1 ± 0.1045
145
140
135
130
125

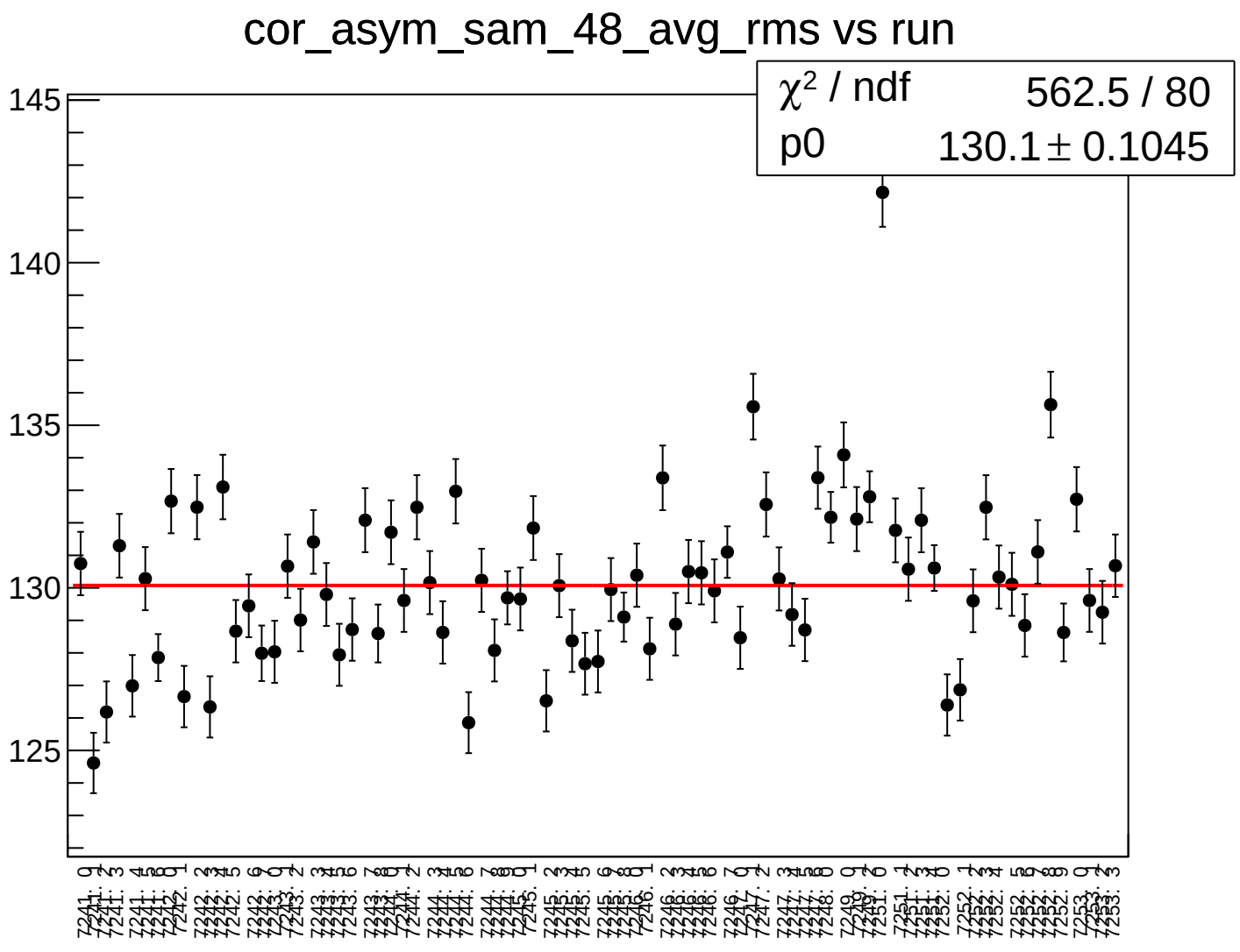

asym_sam_48_avg_reg_correction_mean vs run
χ² / ndf 76.15 / 80
p0 −1951 ± 1008
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean 37.43
Std Dev 0
2
1
0
−1
−2

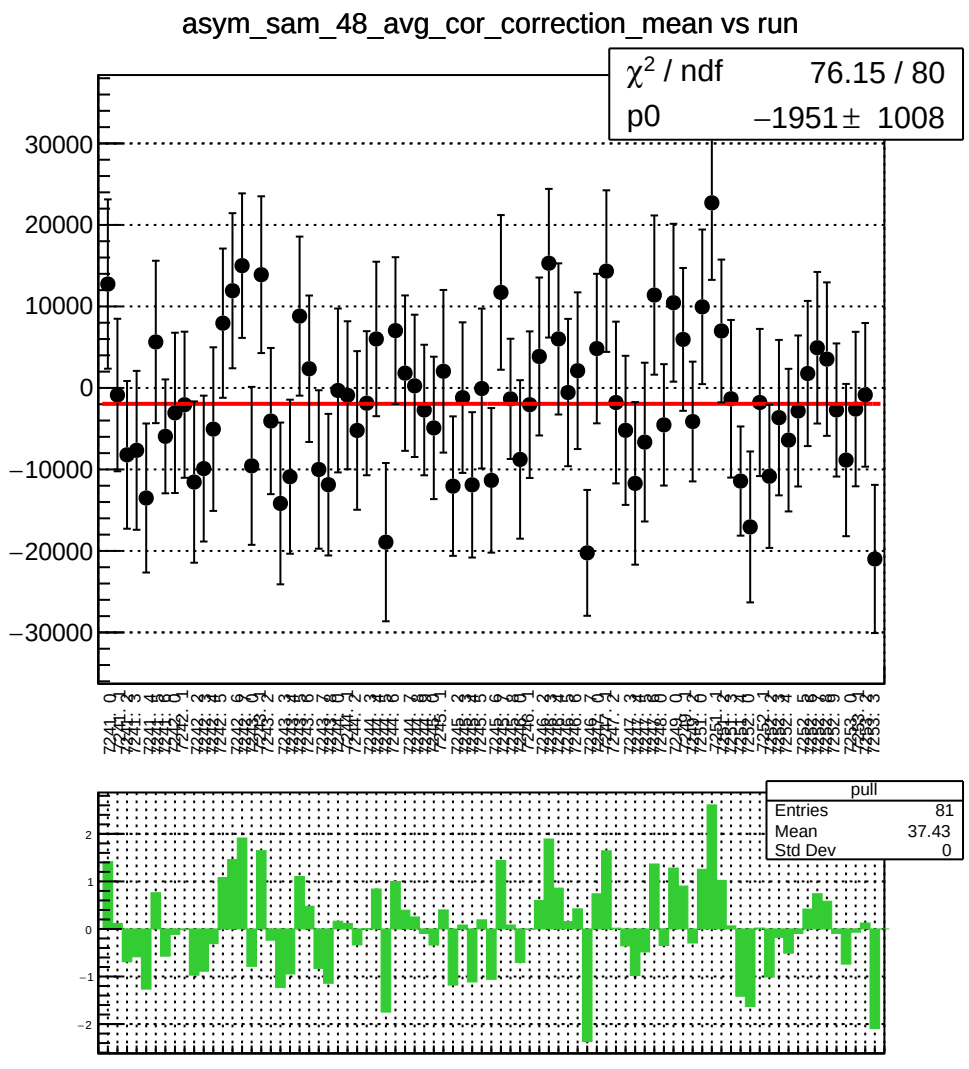

pull1D
Entries 81
Mean 0.02271
Std Dev 0.9694
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

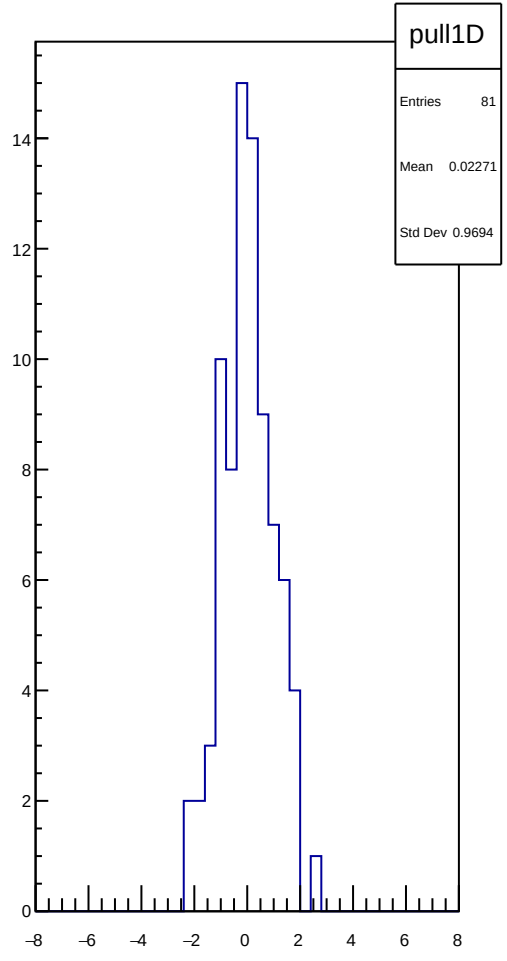

asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 2760 / 80
p0 886.8 ± 0.7131
1000
950
900
850
800

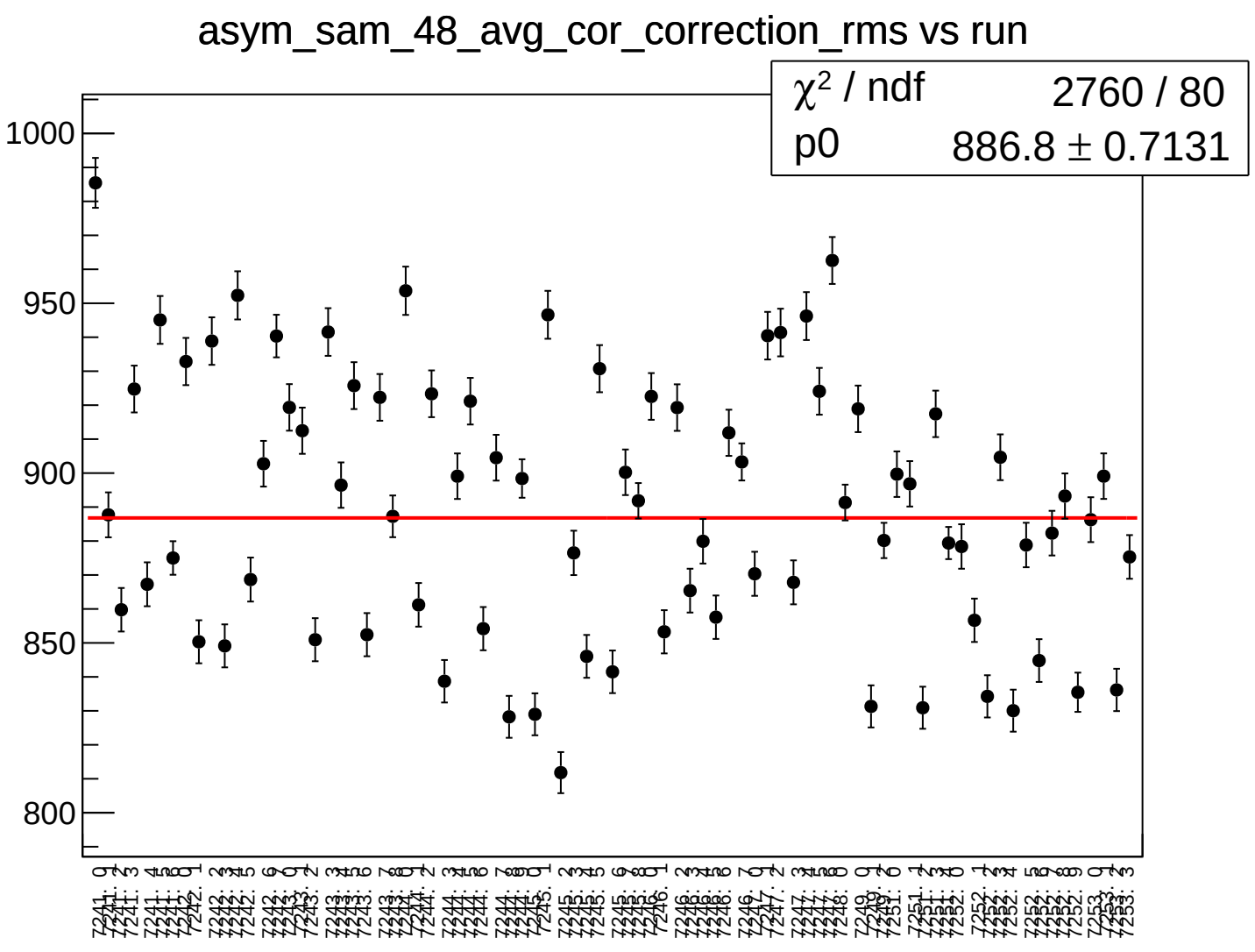

cor_asym_sam_48_avg_mean vs run
χ² / ndf 89.99 / 80
p0 261.3 ± 147.8
pull
Entries 81
Mean 364
Std Dev 0

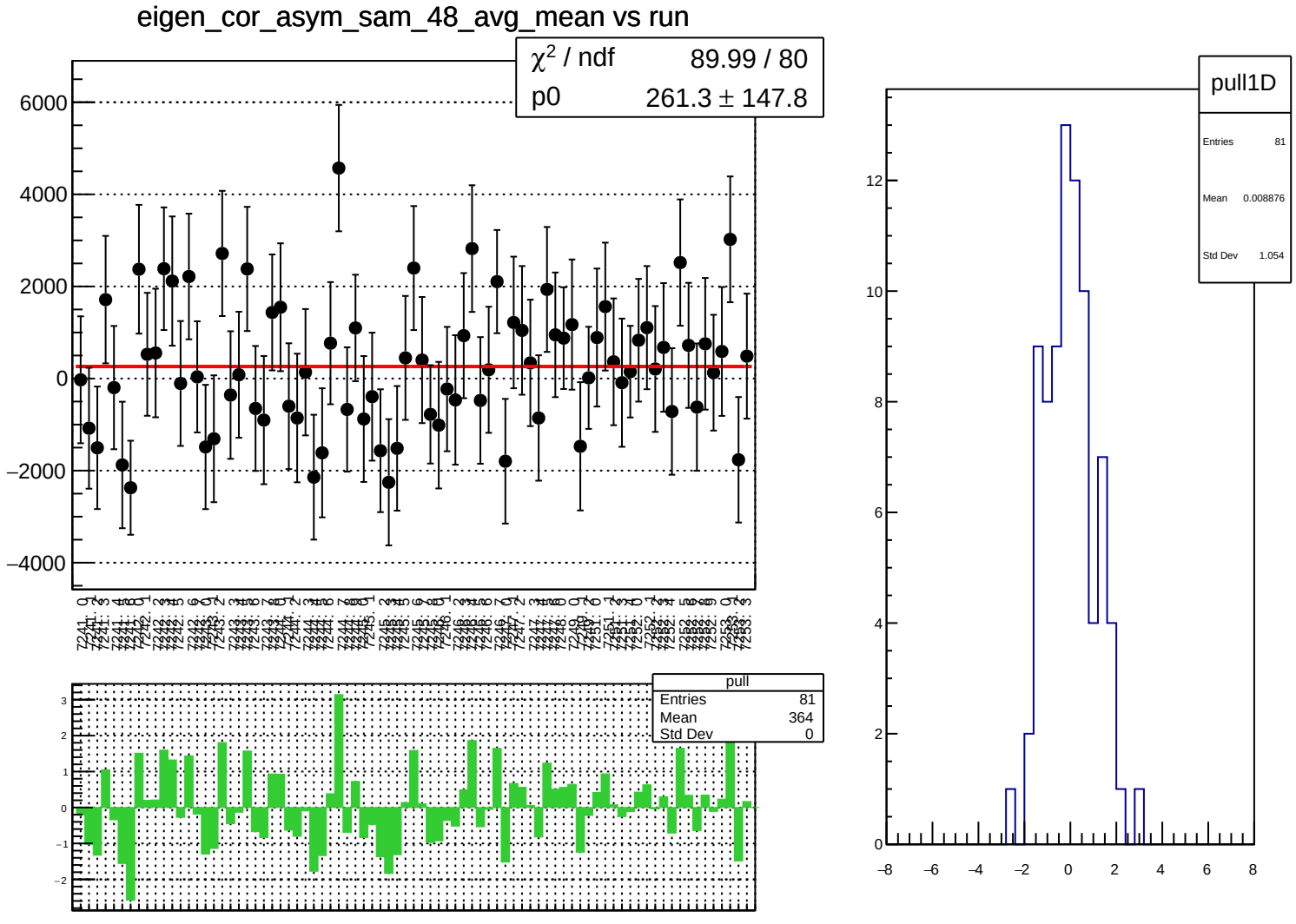

pull1D
Entries 81
Mean 0.008876
Std Dev 1.054

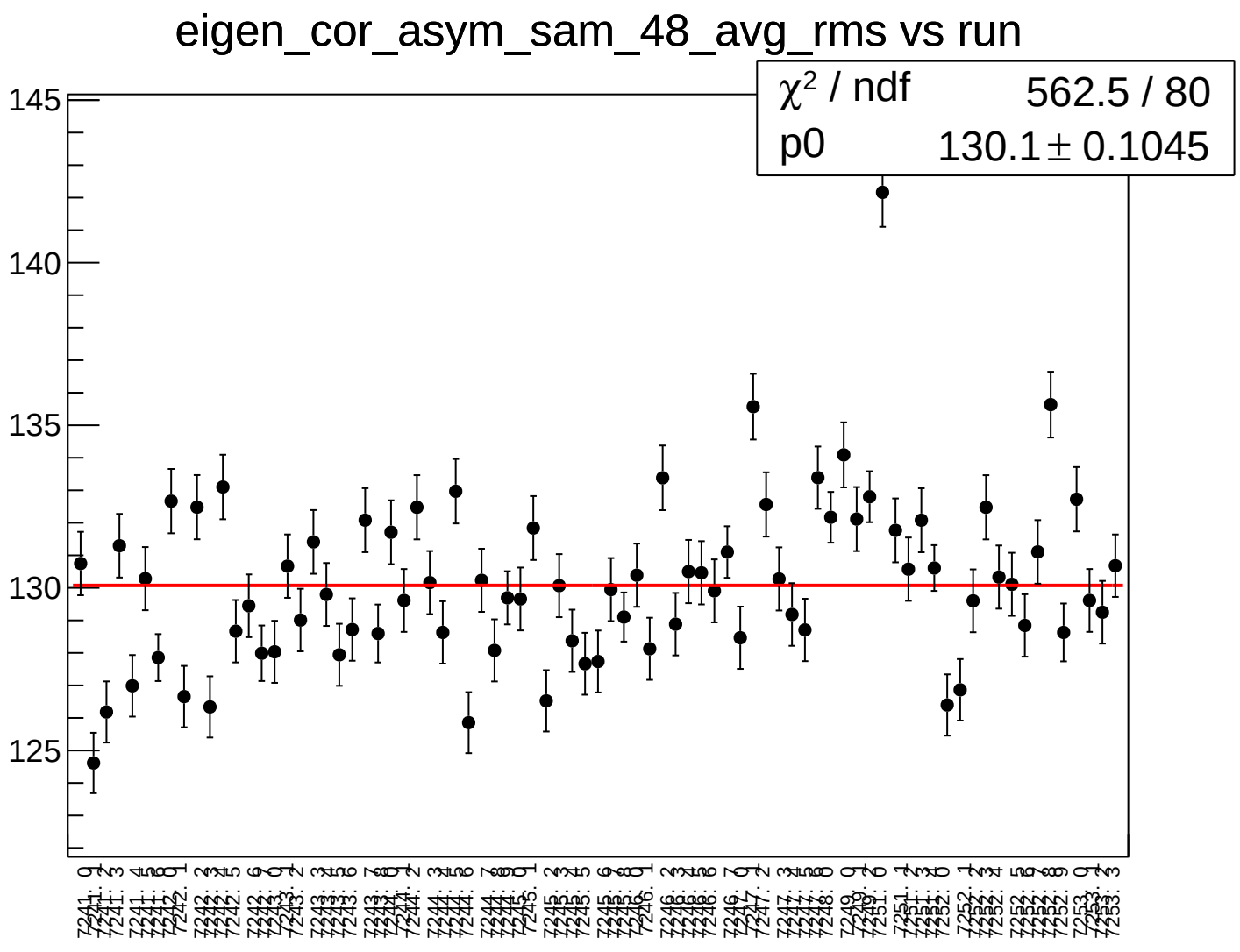

cor_asym_sam_48_avg_rms vs run
χ² / ndf 562.5 / 80
p0 130.1 ± 0.1045
145
140
135
130
125

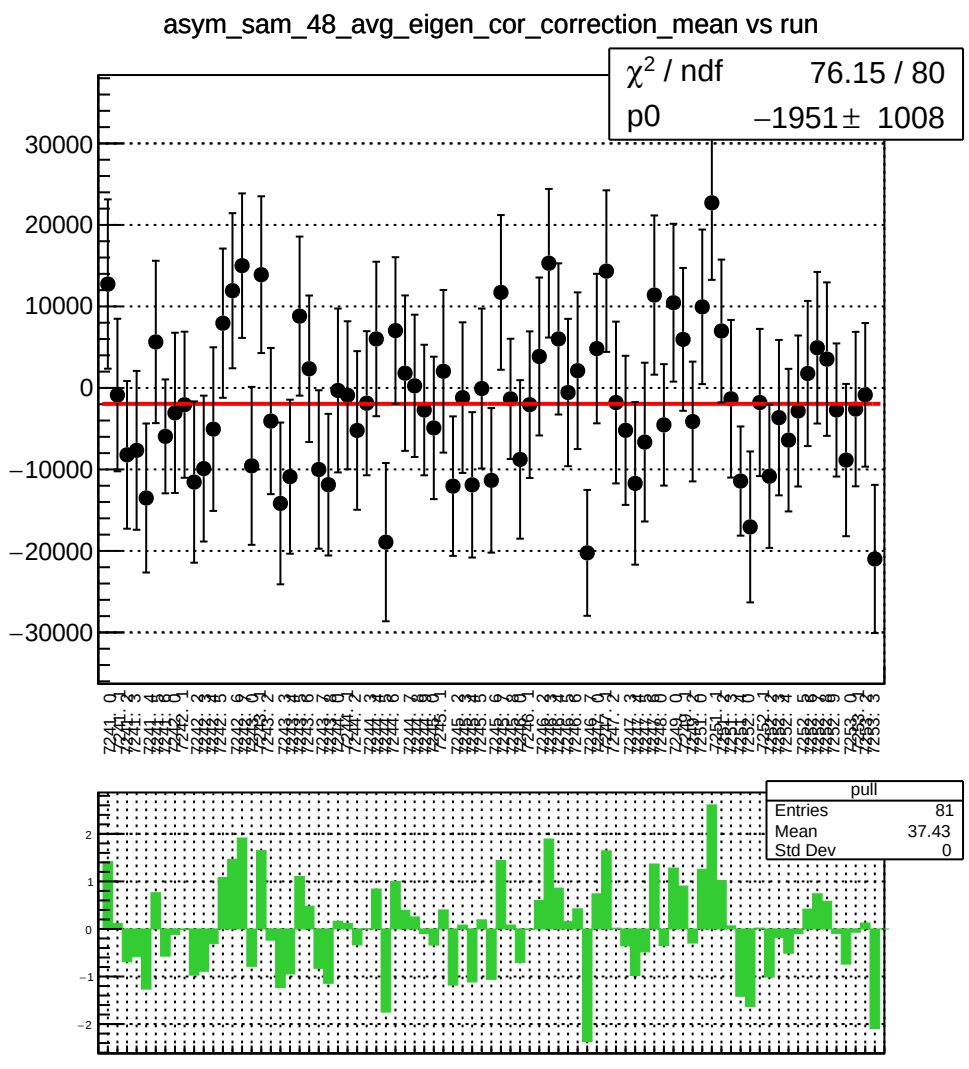

asym_sam_48_avg_cor_correction_mean vs run
χ² / ndf 76.15 / 80
p0 −1951 ± 1008
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean 37.43
Std Dev 0
2
1
0
−1
−2

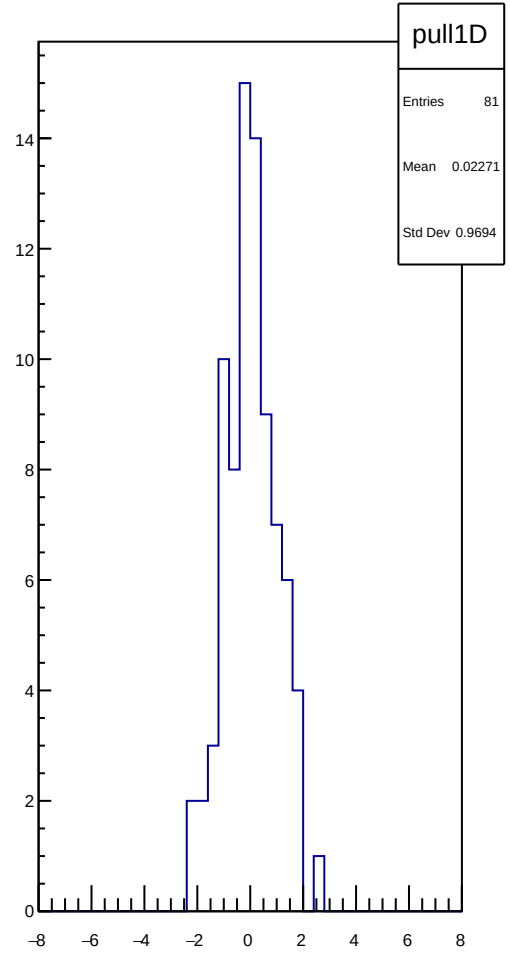

pull1D
Entries 81
Mean 0.02271
Std Dev 0.9694
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

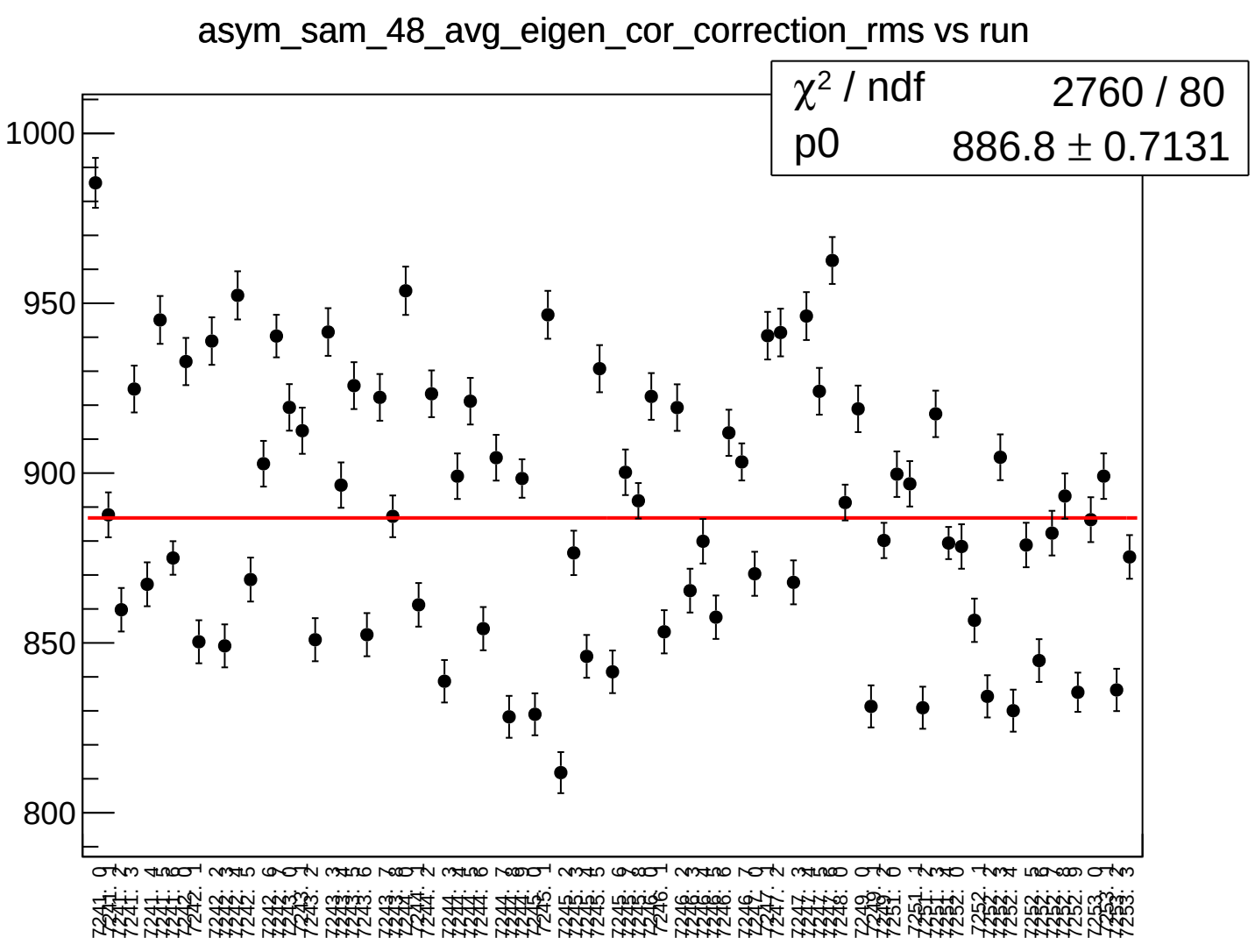

asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 2760 / 80
p0 886.8 ± 0.7131
1000
950
900
850
800

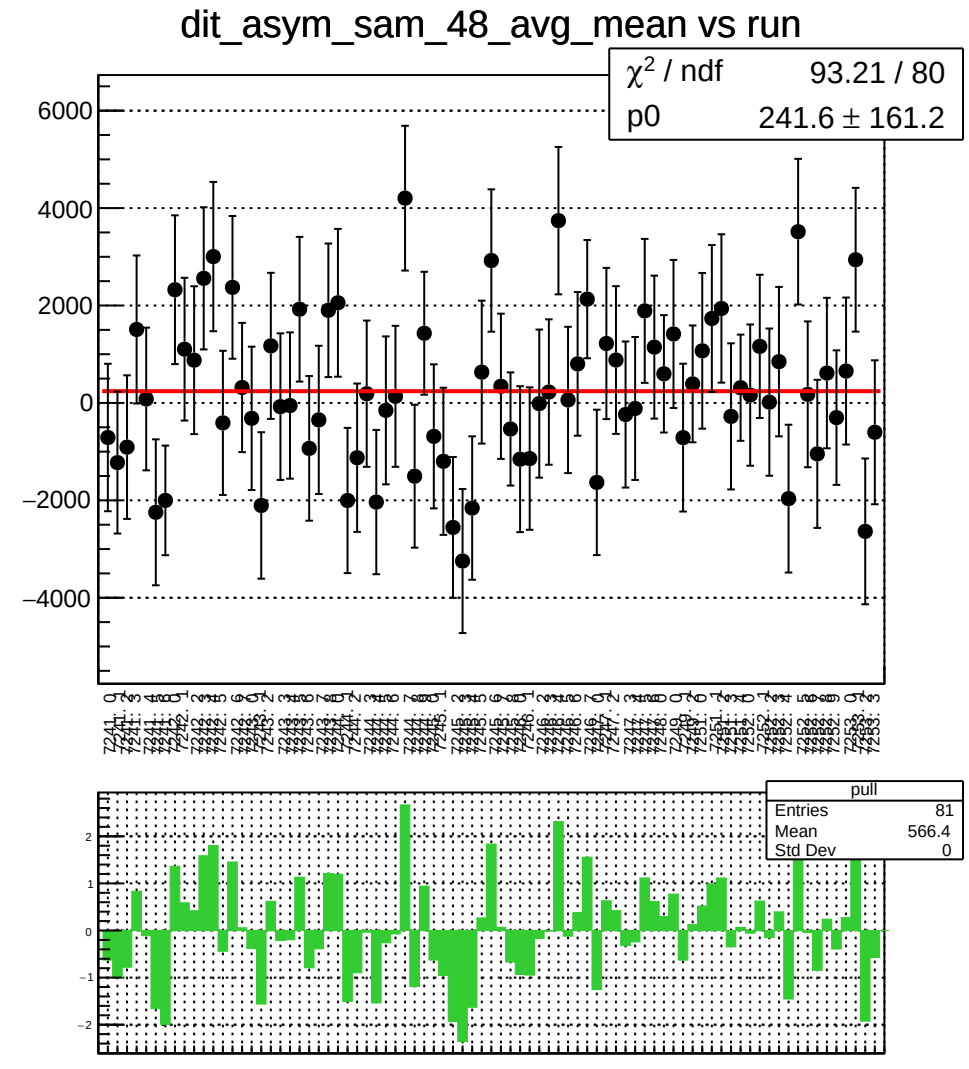

eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 89.99 / 80
p0 261.3 ± 147.8
pull
Entries 81
Mean 364
Std Dev 0
pull1D
Entries 81
Mean 0.008876
Std Dev 1.054

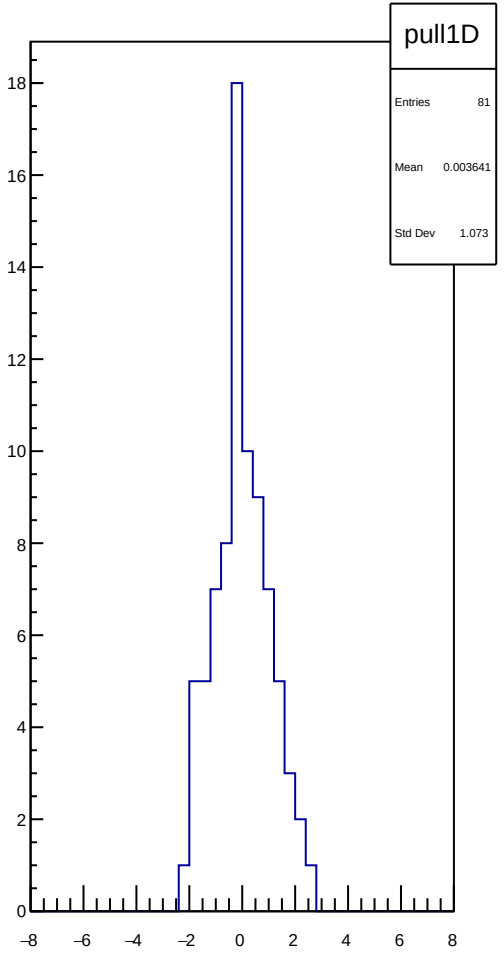

eigen_cor_asym_sam_48_avg_rms vs run
χ² / ndf 562.5 / 80
p0 130.1 ± 0.1045
145
140
135
130
125

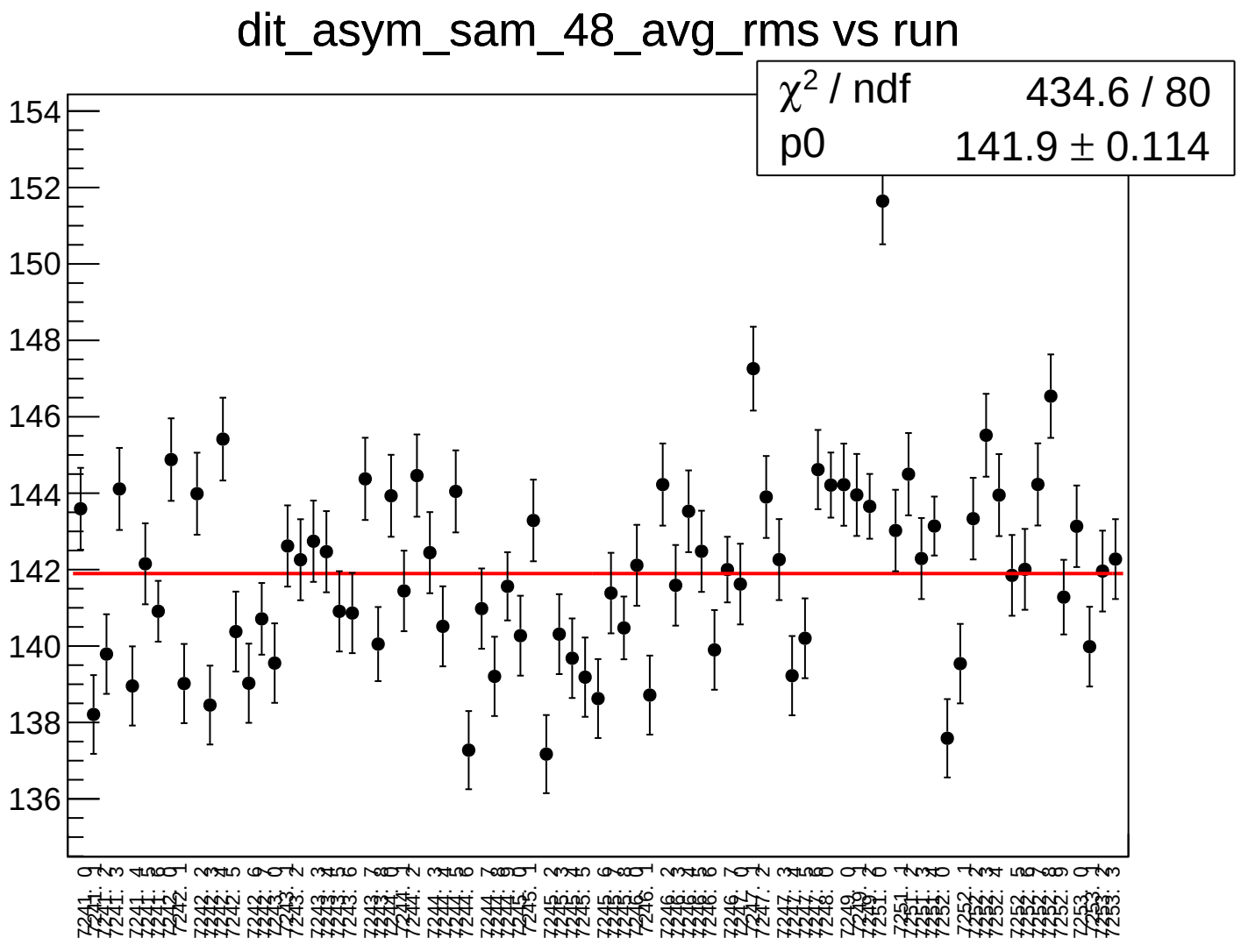

asym_sam_48_avg_eigen_cor_correction_mean vs run
χ² / ndf 76.15 / 80
p0 −1951 ± 1008
pull
Entries 81
Mean 37.43
Std Dev 0

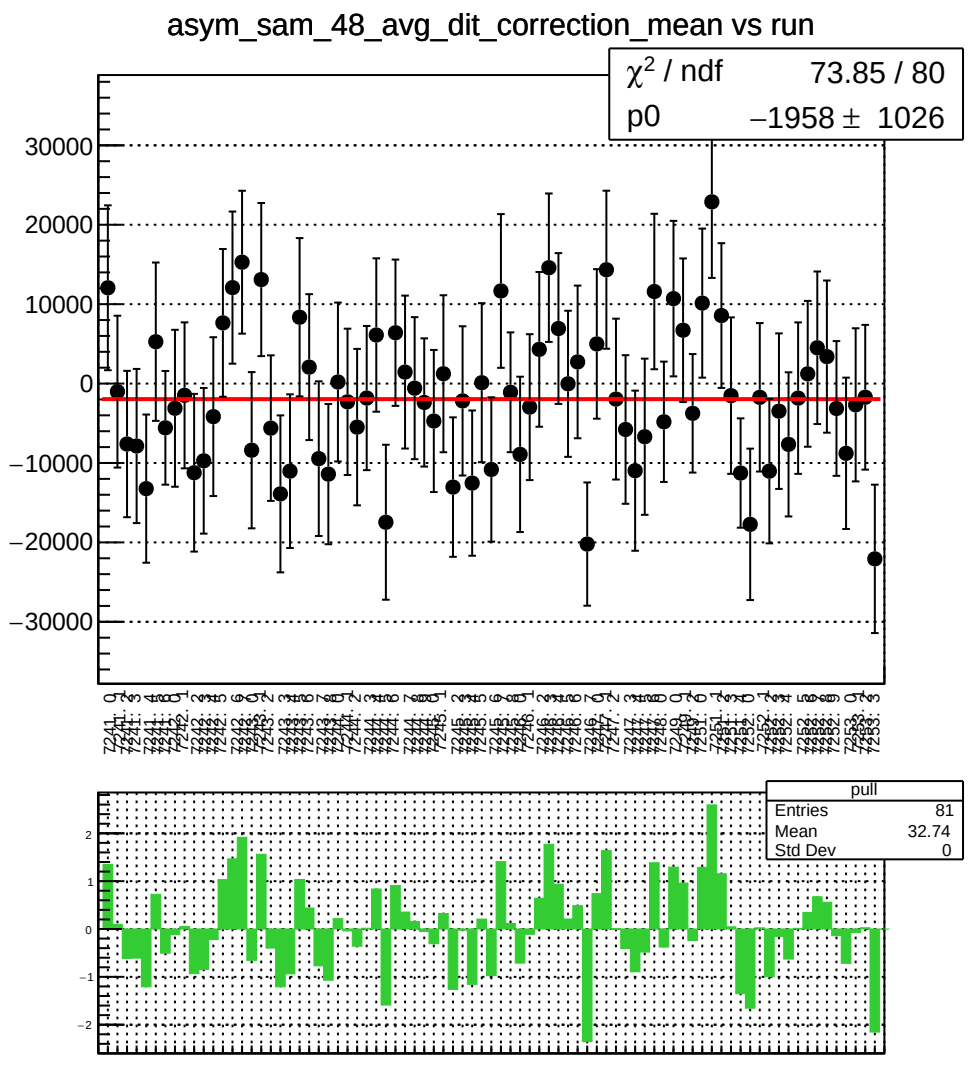

pull1D
Entries 81
Mean 0.02271
Std Dev 0.9694

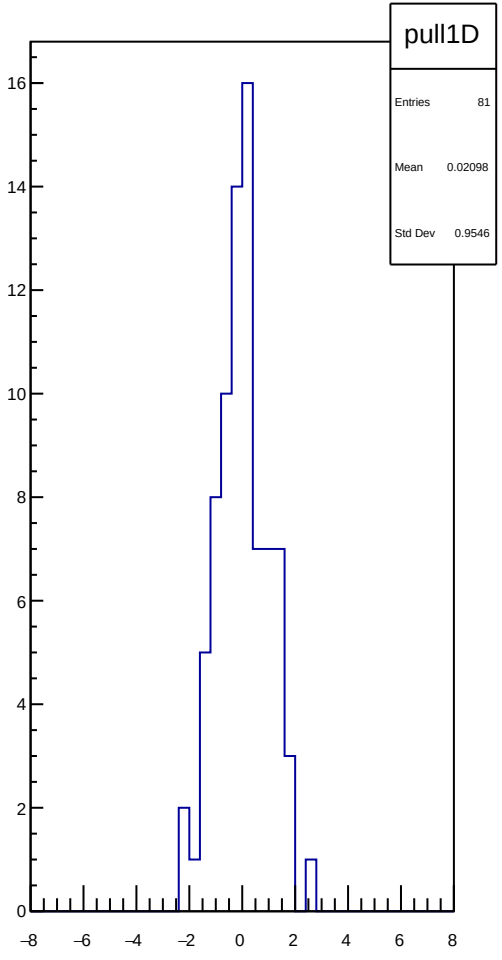

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 2760 / 80
p0 886.8 ± 0.7131
1000
950
900
850
800

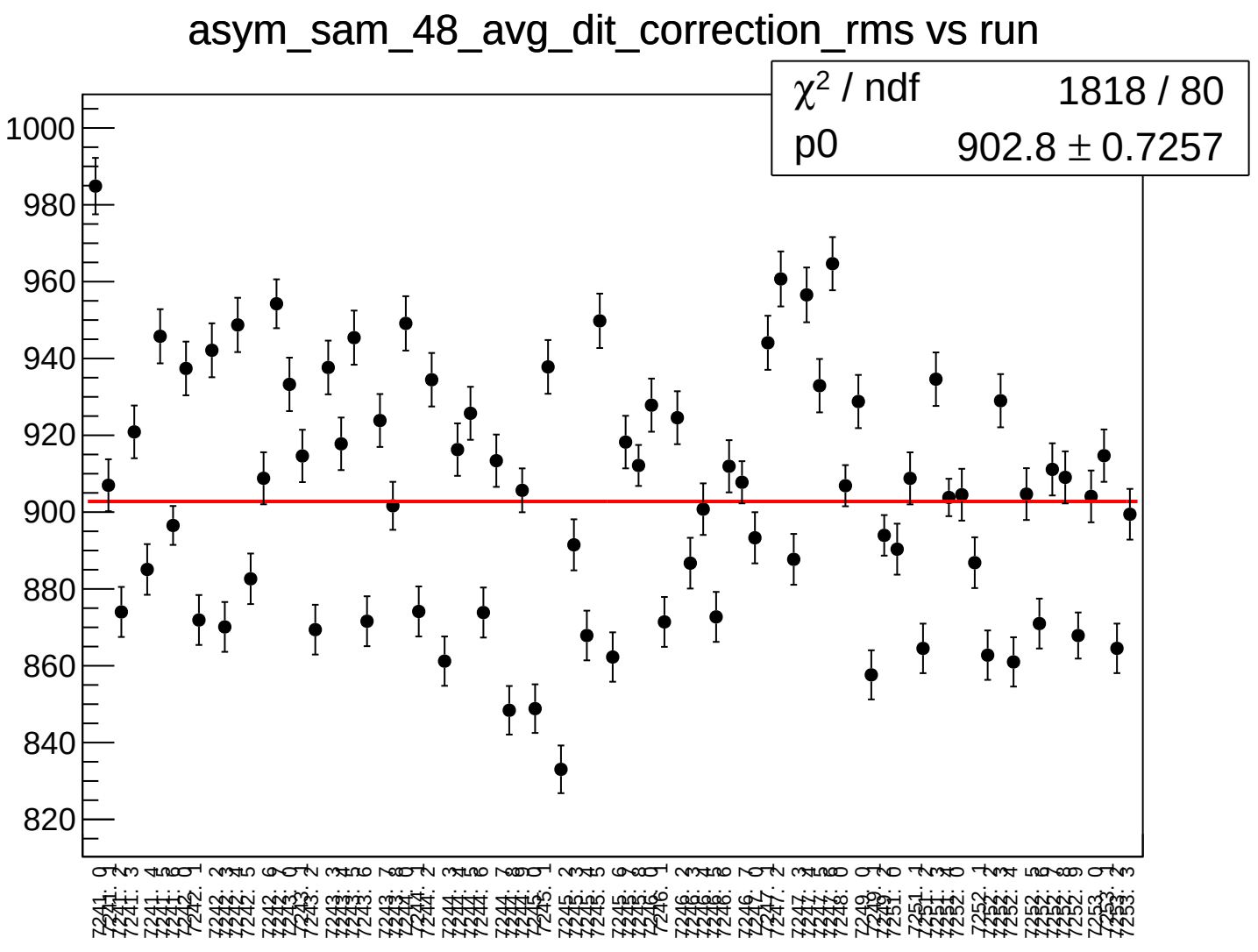

dit_asym_sam_48_avg_mean vs run
χ² / ndf 93.21 / 80
p0 241.6 ± 161.2
pull
Entries 81
Mean 566.4
Std Dev 0

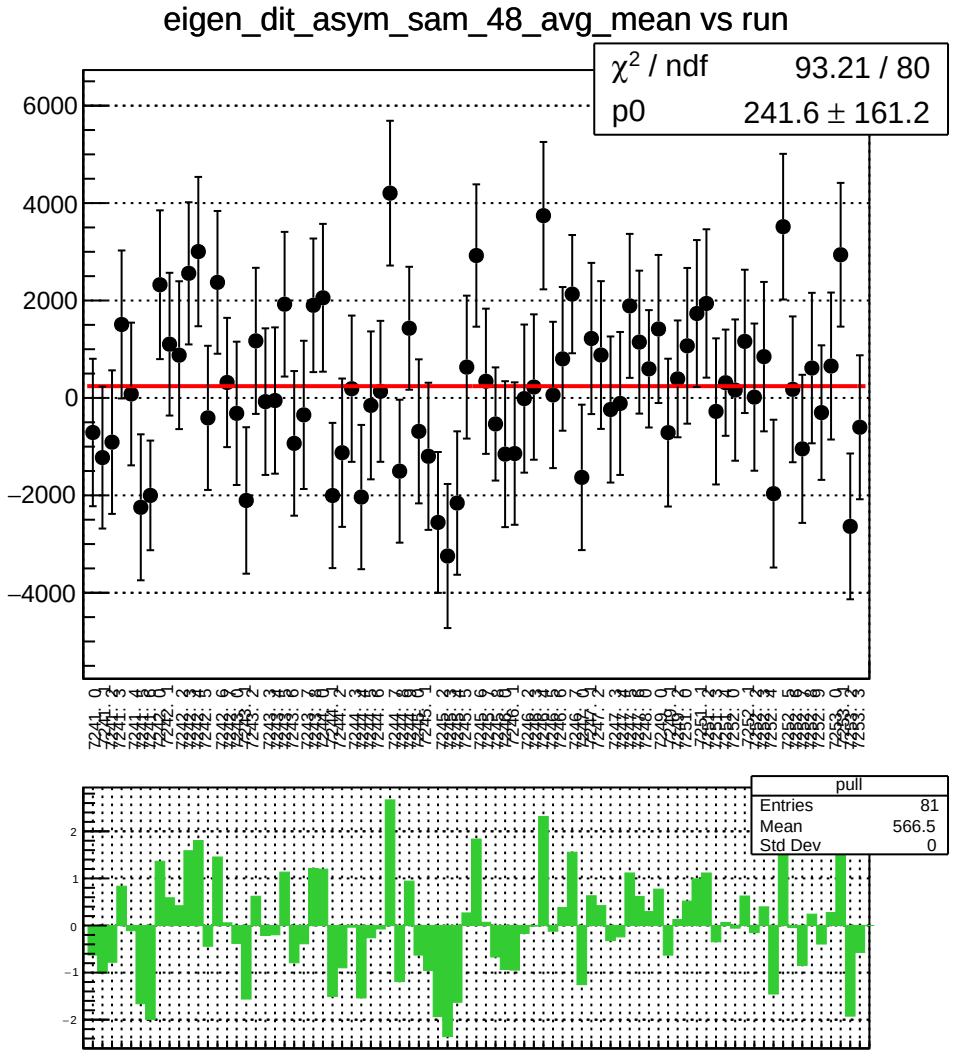

pull1D
Entries 81
Mean 0.003641
Std Dev 1.073

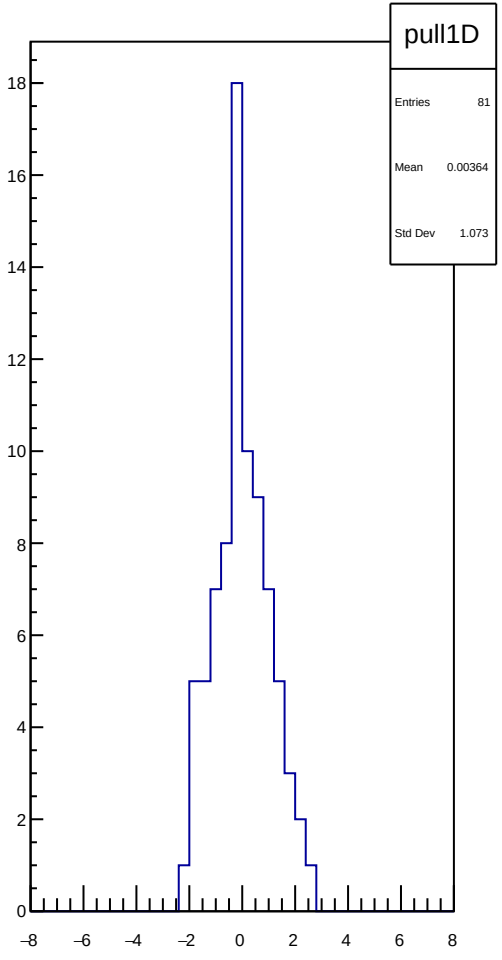

dit_asym_sam_48_avg_rms vs run
χ^2 / ndf 434.6 / 80
p0 141.9 ± 0.114
154
152
150
148
146
144
142
140
138
136

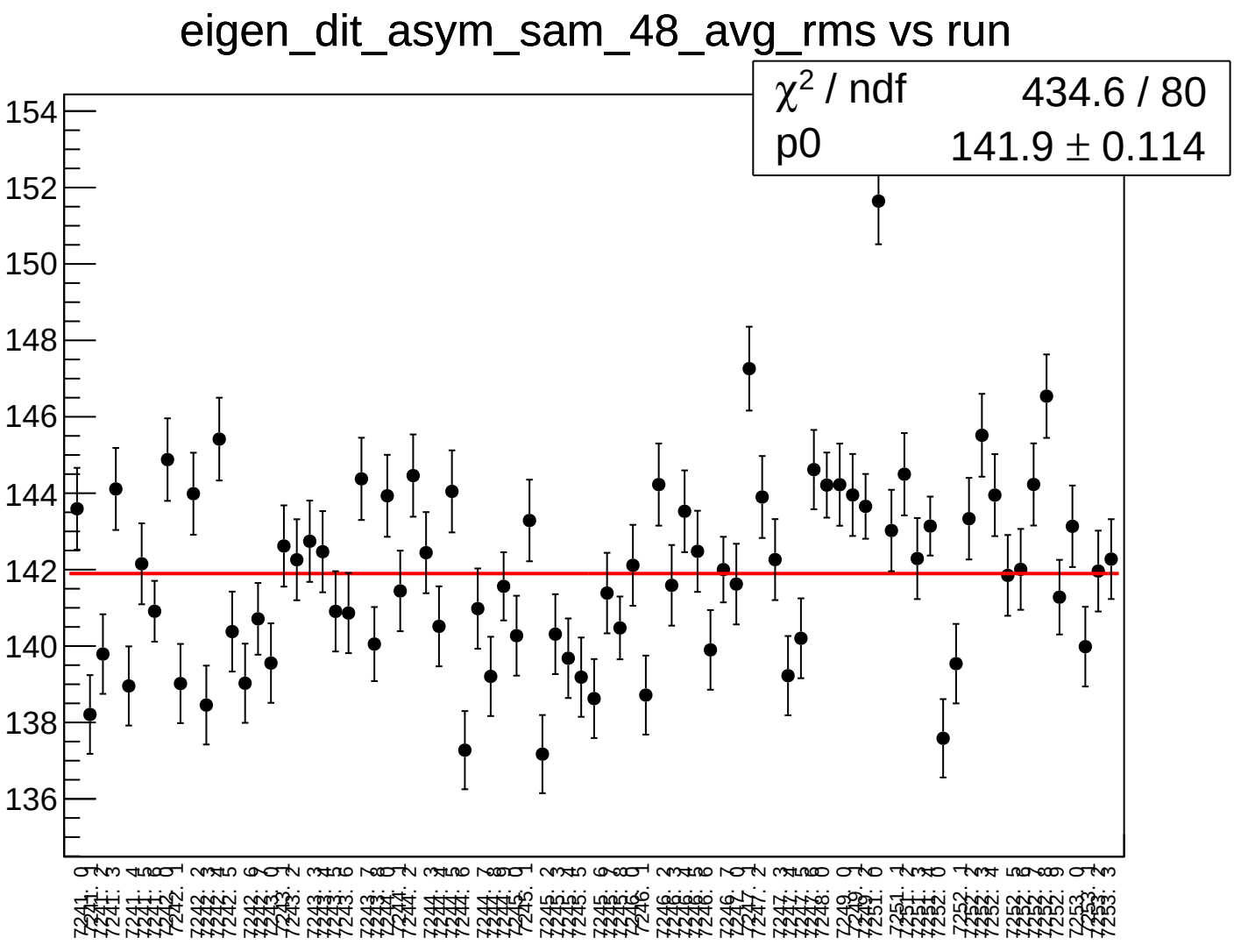

asym_sam_48_avg_dit_correction_mean vs run
χ² / ndf 73.85 / 80
p0 −1958 ± 1026
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean 32.74
Std Dev 0
2
1
0
−1
−2

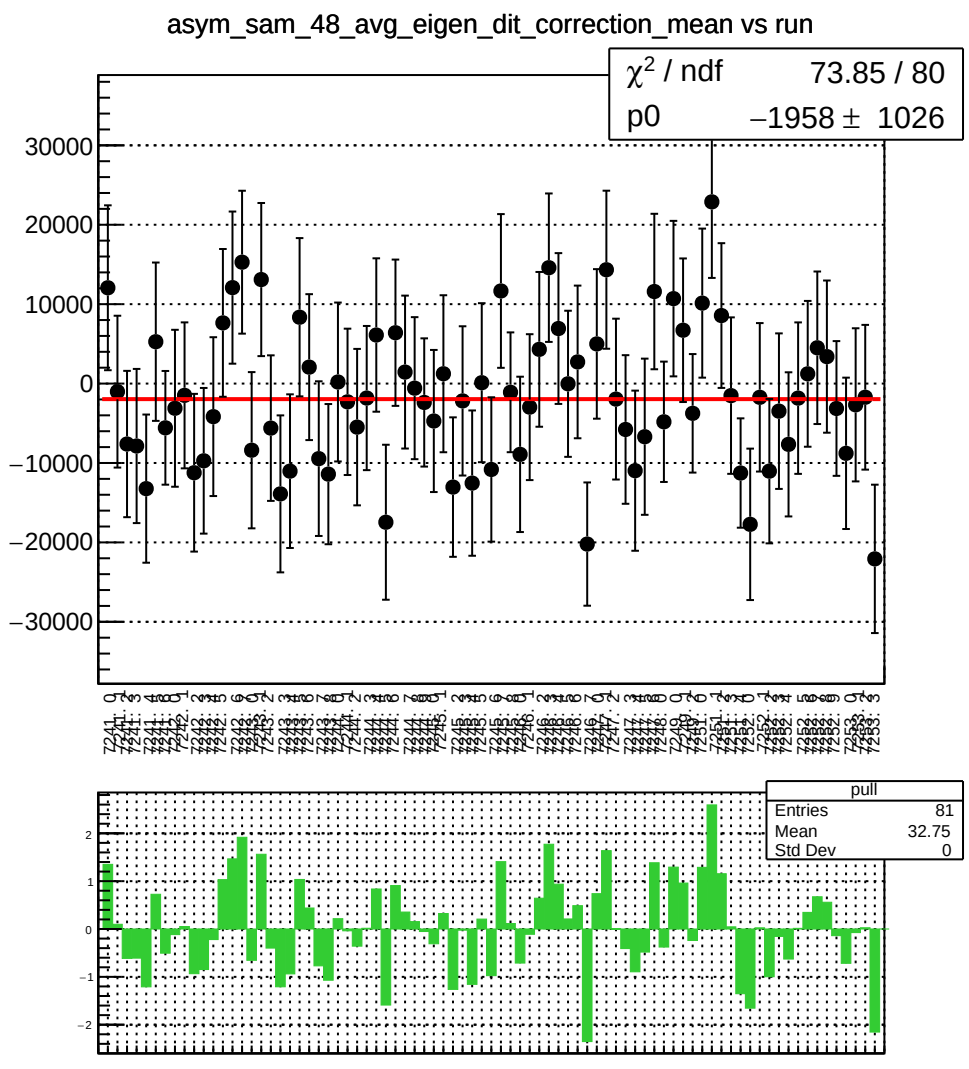

pull1D
Entries 81
Mean 0.02098
Std Dev 0.9546
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

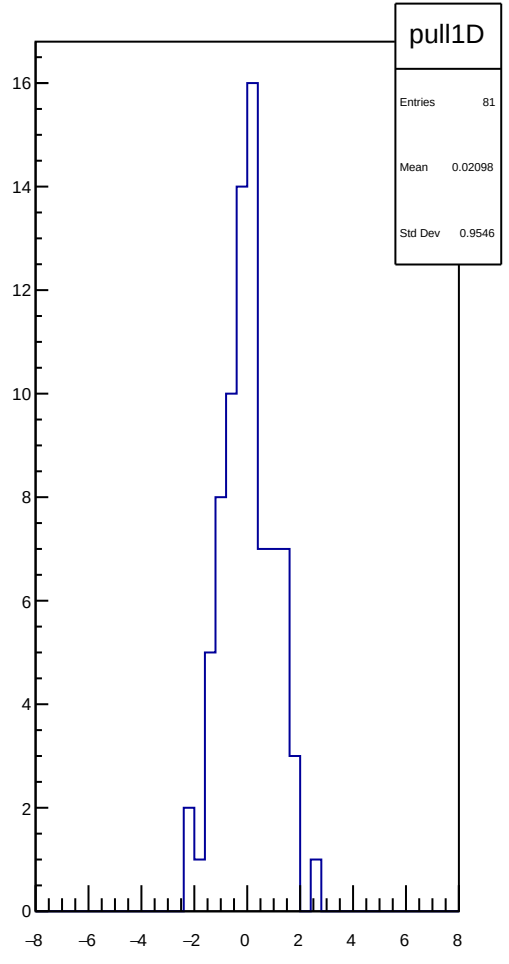

asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 1818 / 80
p0 902.8 ± 0.7257
1000
980
960
940
920
900
880
860
840
820

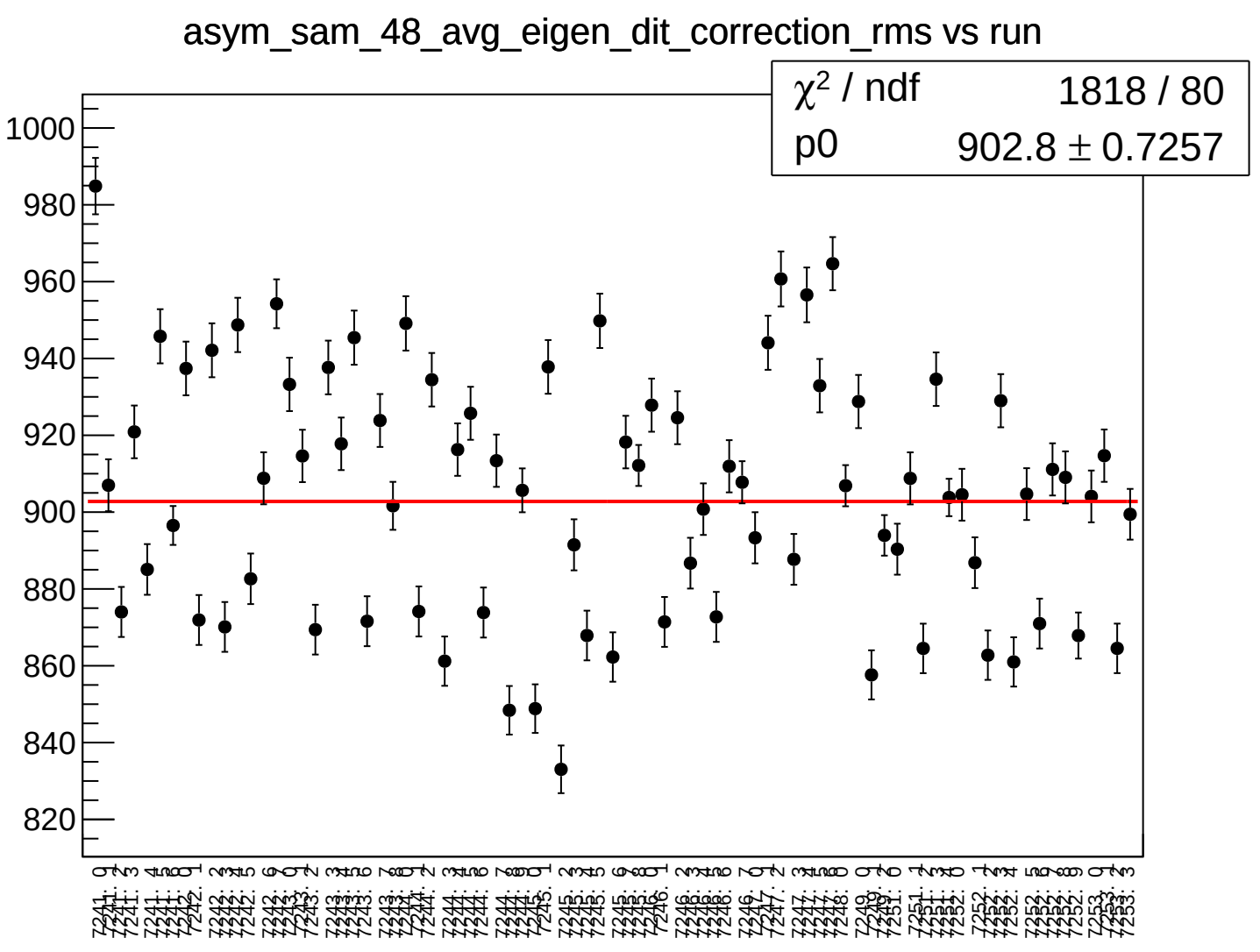

eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 93.21 / 80
p0 241.6 ± 161.2
6000
4000
2000
0
−2000
−4000
pull
Entries 81
Mean 566.5
Std Dev 0
2
1
0
−1
−2

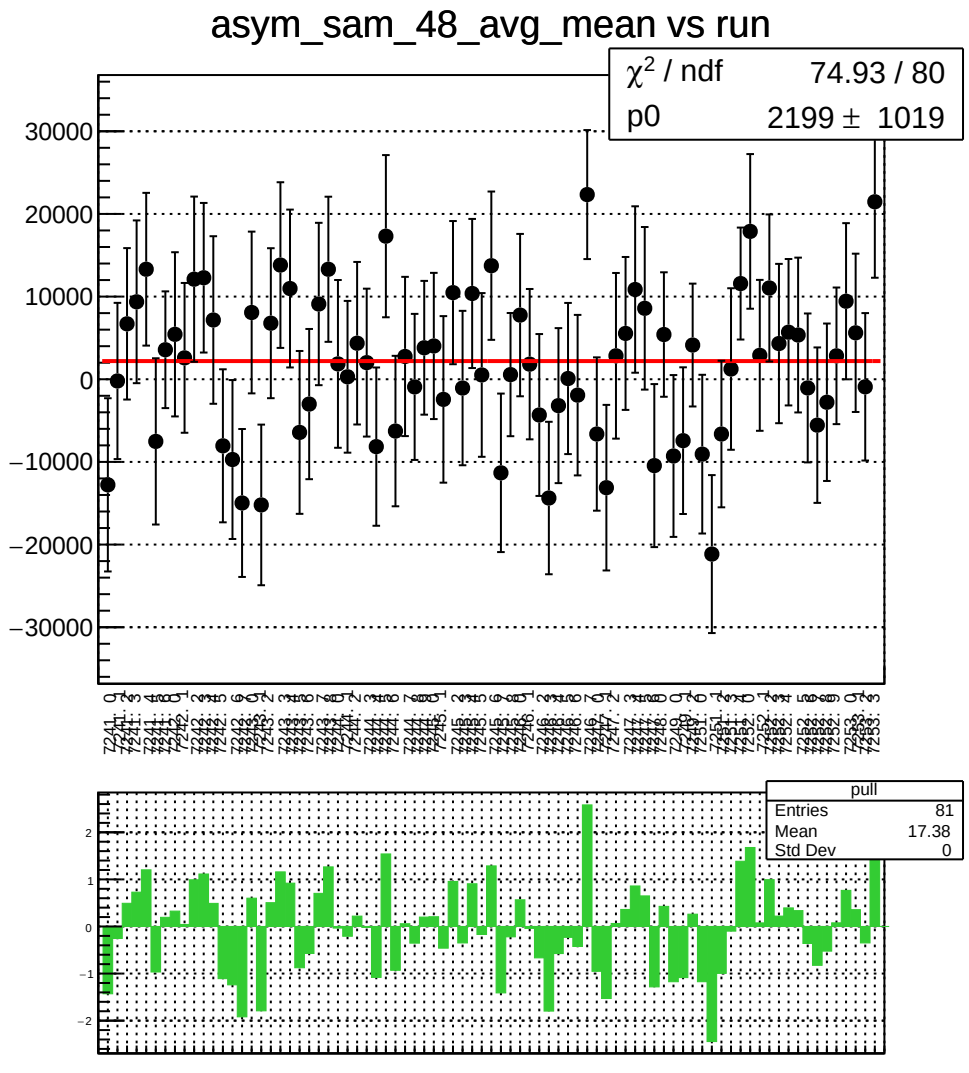

pull1D
Entries 81
Mean 0.00364
Std Dev 1.073
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

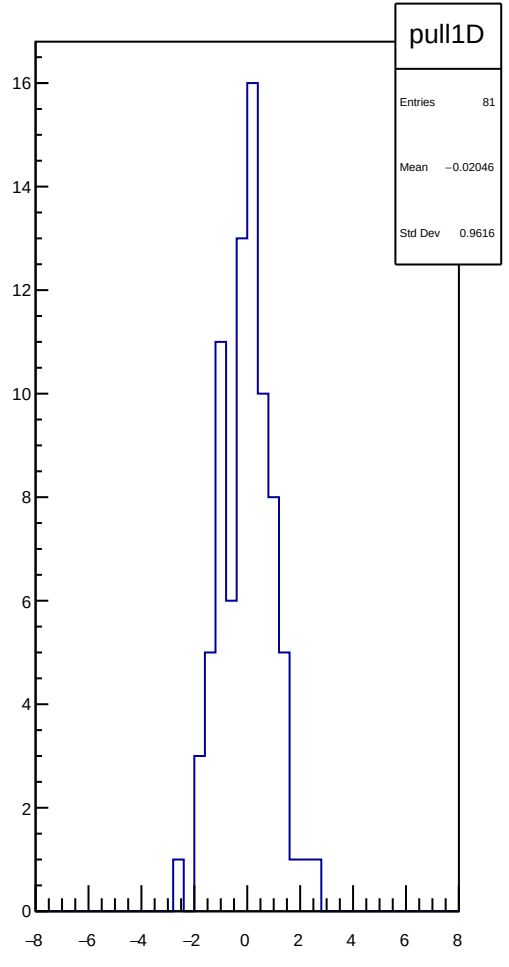

eigen_dit_asym_sam_48_avg_rms vs run
χ^2 / ndf 434.6 / 80
p0 141.9 ± 0.114
154
152
150
148
146
144
142
140
138
136

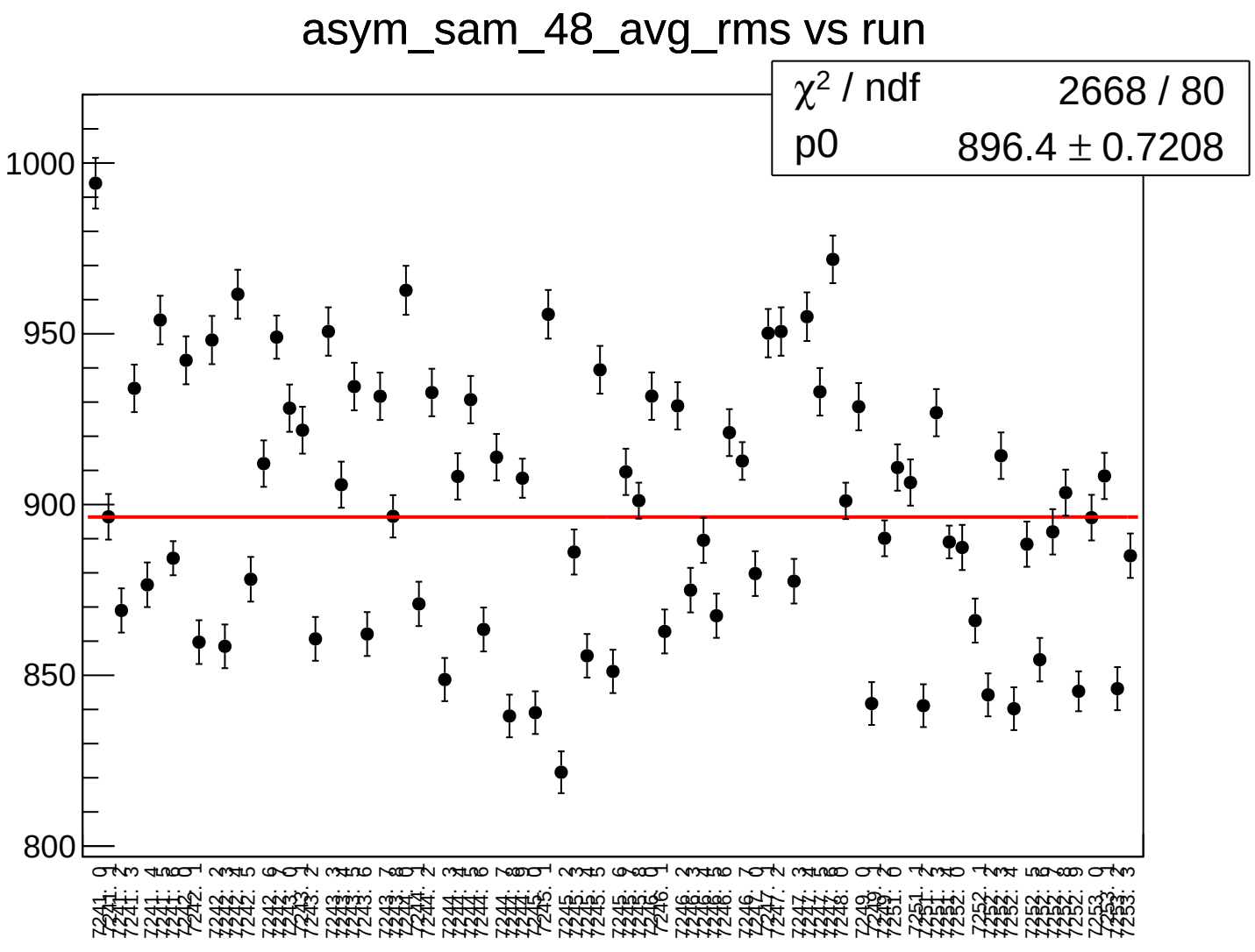

asym_sam_48_avg_eigen_dit_correction_mean vs run
χ² / ndf 73.85 / 80
p0 −1958 ± 1026
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean 32.75
Std Dev 0
2
1
0
−1
−2

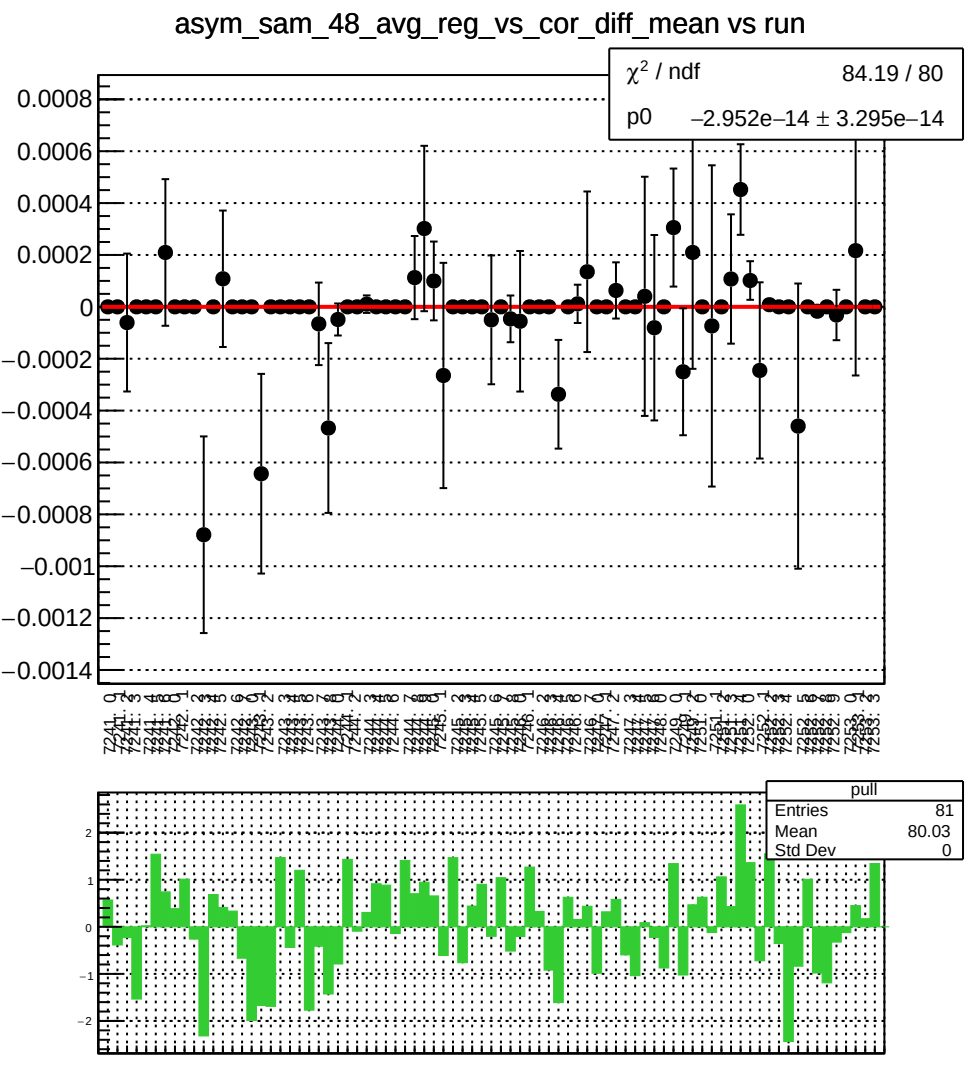

pull1D
Entries 81
Mean 0.02098
Std Dev 0.9546
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

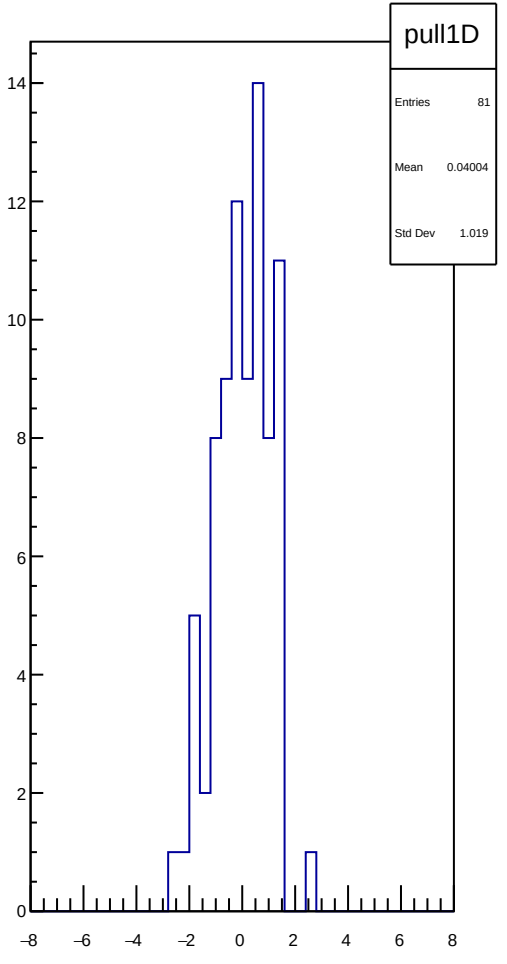

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 1818 / 80
p0 902.8 ± 0.7257
1000
980
960
940
920
900
880
860
840
820

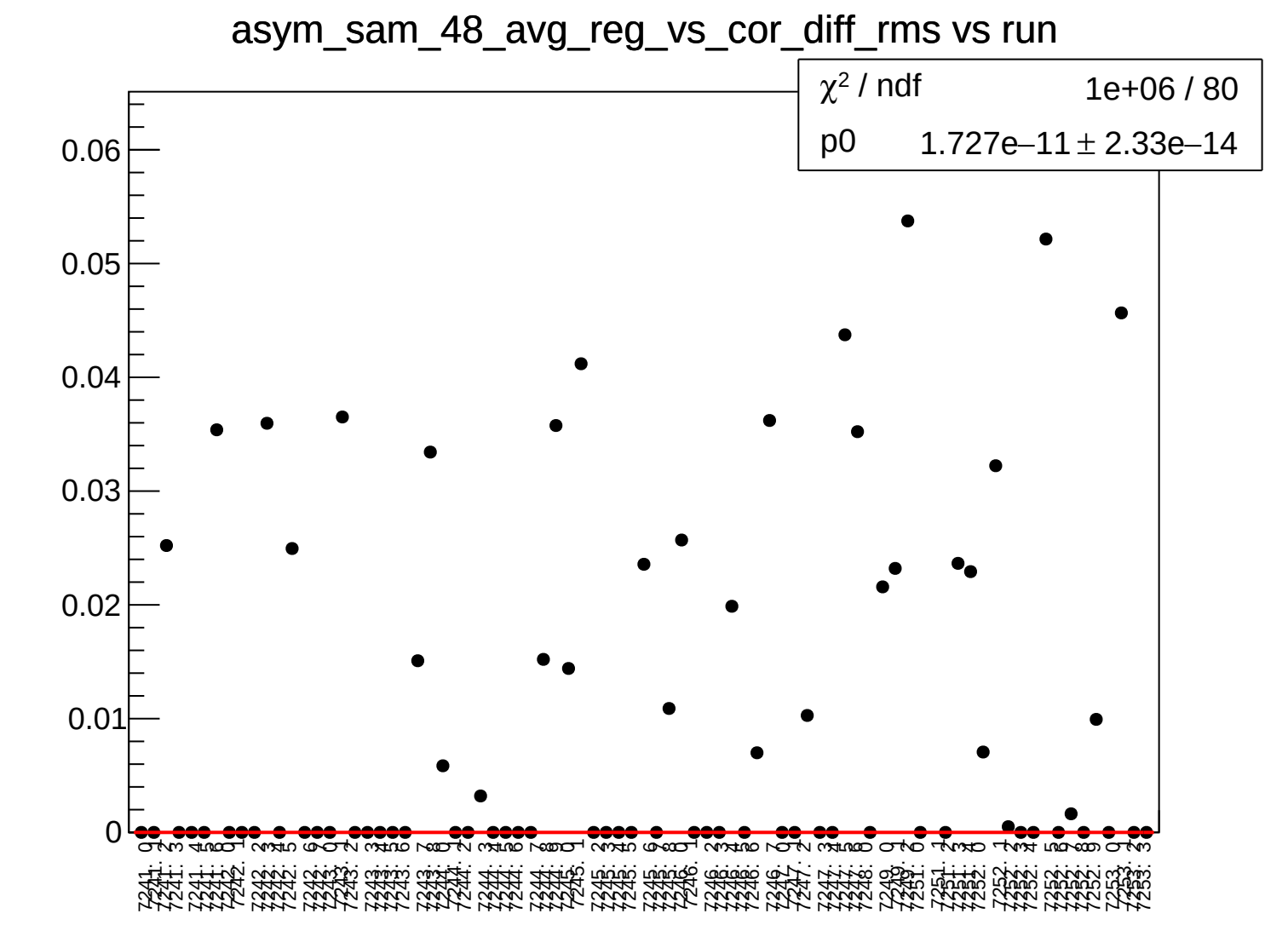

asym_sam_48_avg_mean vs run
χ^2 / ndf 74.93 / 80
p0 2199 ± 1019
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean 17.38
Std Dev 0
2
1
0
−1
−2

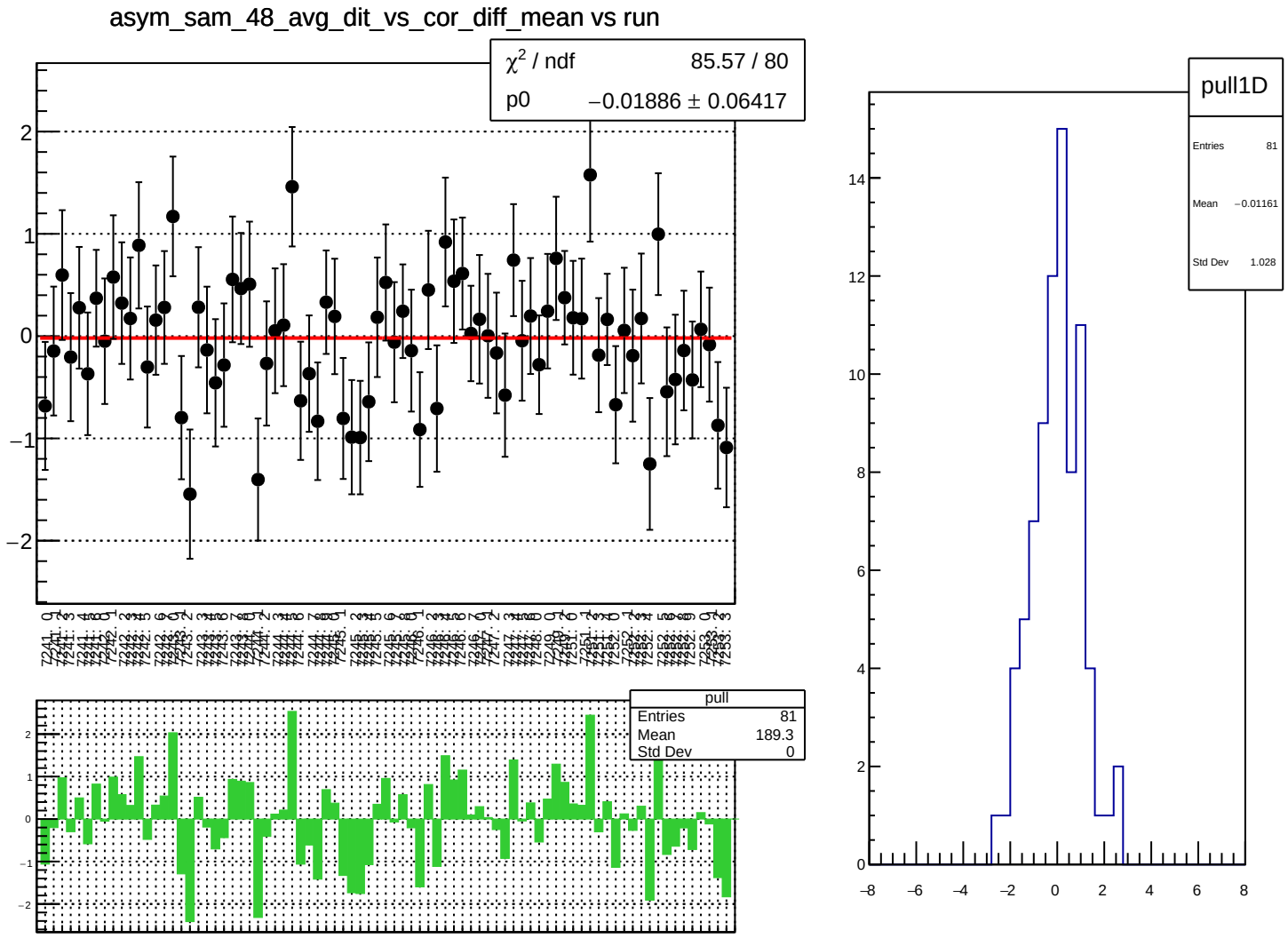

pull1D
Entries 81
Mean −0.02046
Std Dev 0.9616
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

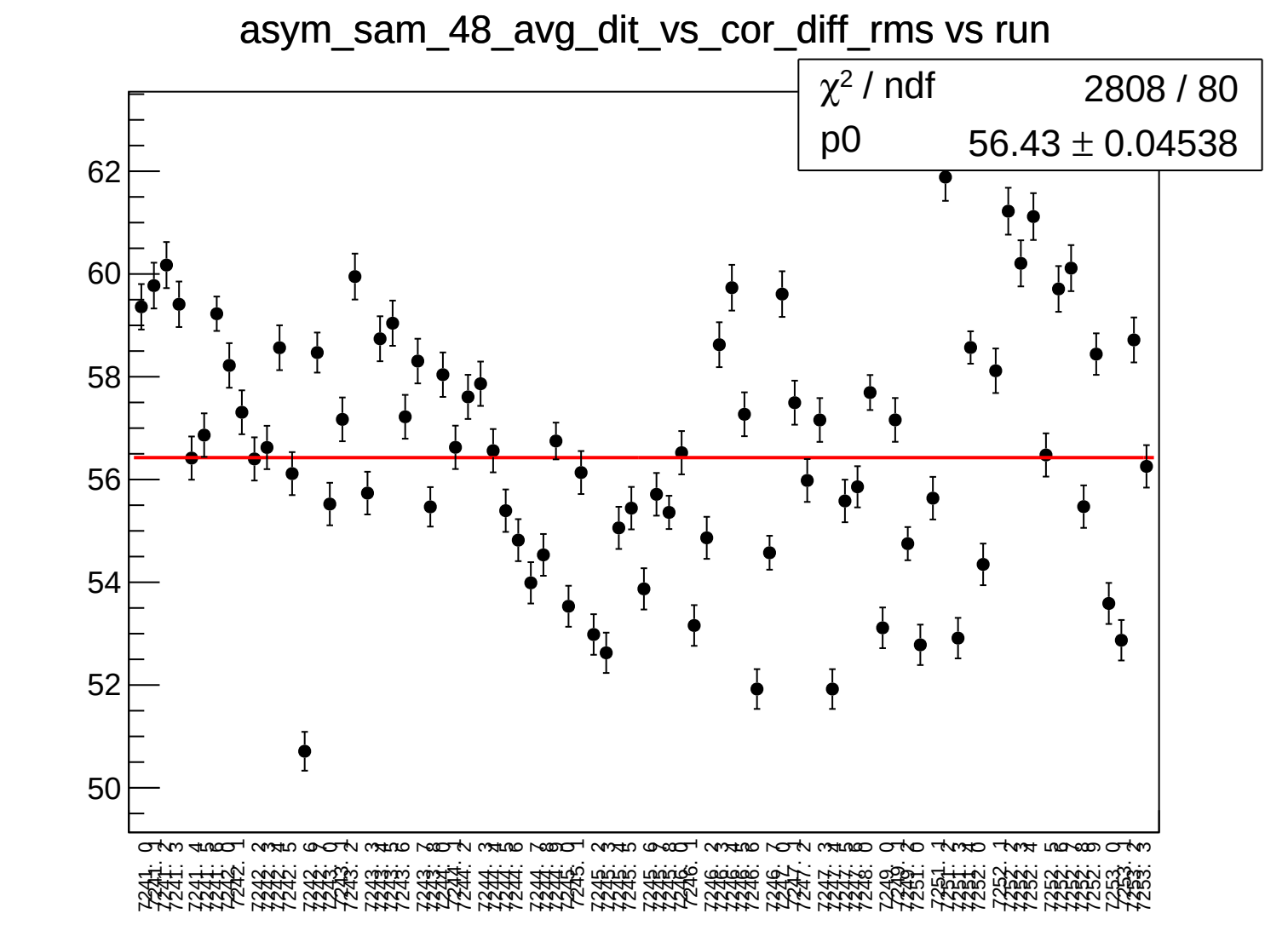

asym_sam_48_avg_rms vs run
χ² / ndf 2668 / 80
p0 896.4 ± 0.7208
1000
950
900
850
800

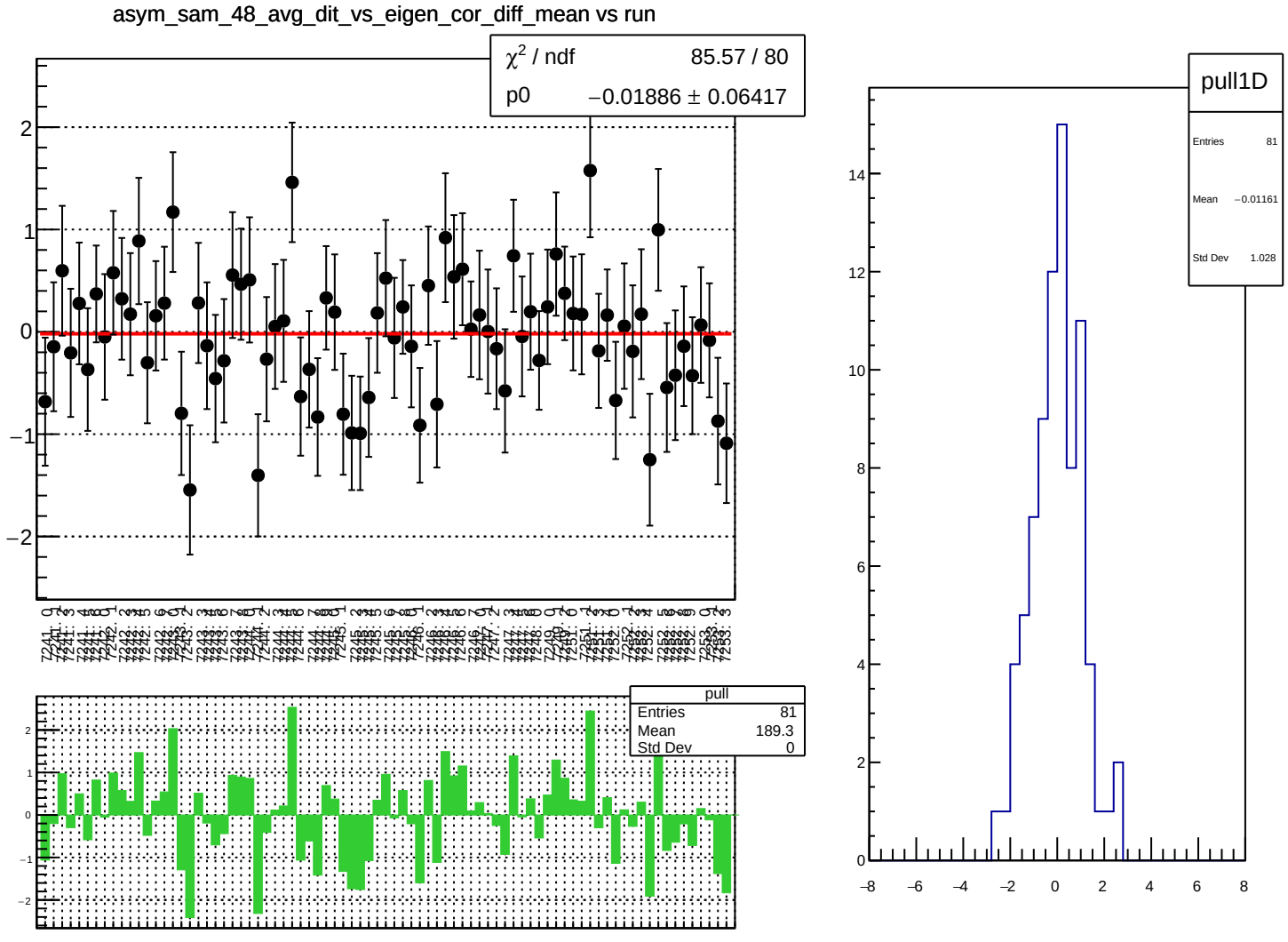

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.19 / 80
p0 −2.952e−14 ± 3.295e−14
pull
Entries 81
Mean 80.03
Std Dev 0

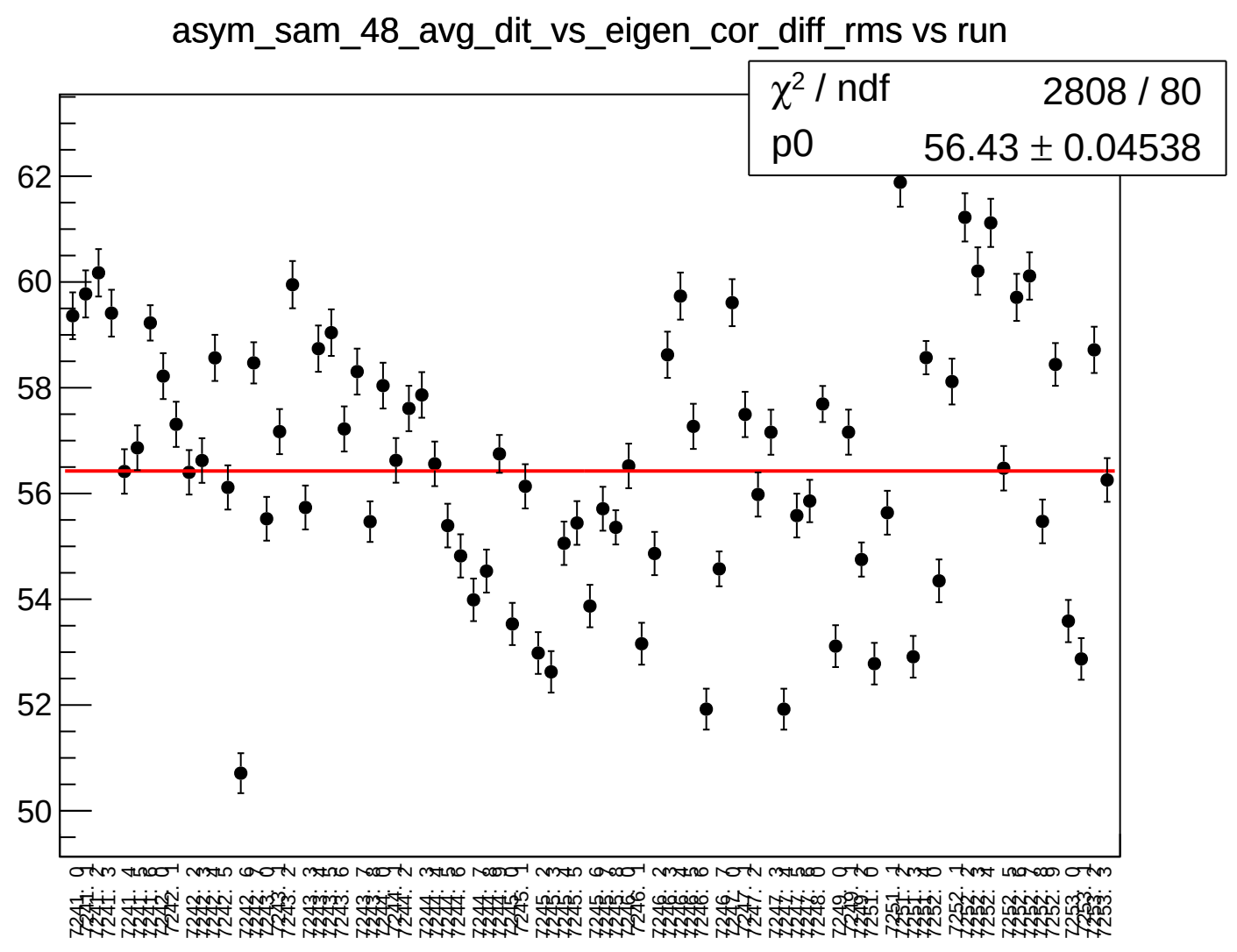

pull1D
Entries 81
Mean 0.04004
Std Dev 1.019

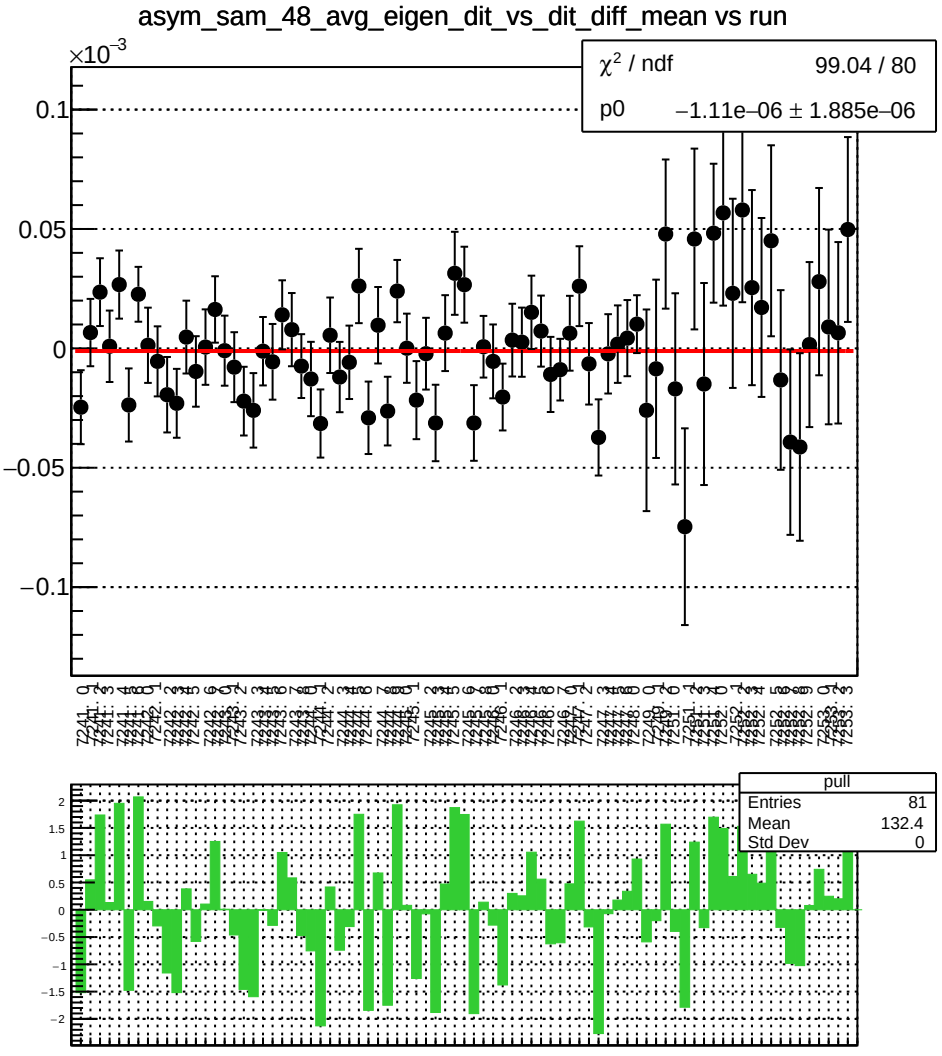

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1e+06 / 80
p0 1.727e−11 ± 2.33e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

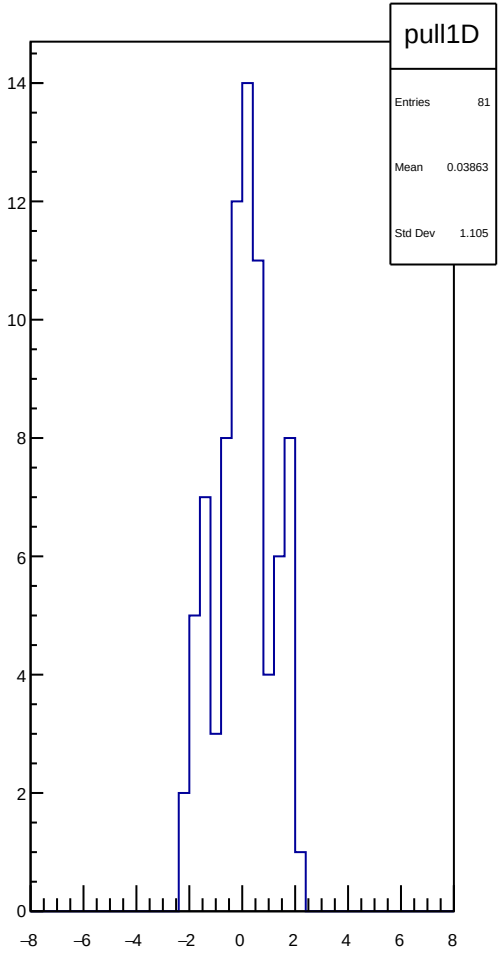

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 85.57 / 80
p0 −0.01886 ± 0.06417
pull
Entries 81
Mean 189.3
Std Dev 0
pull1D
Entries 81
Mean −0.01161
Std Dev 1.028

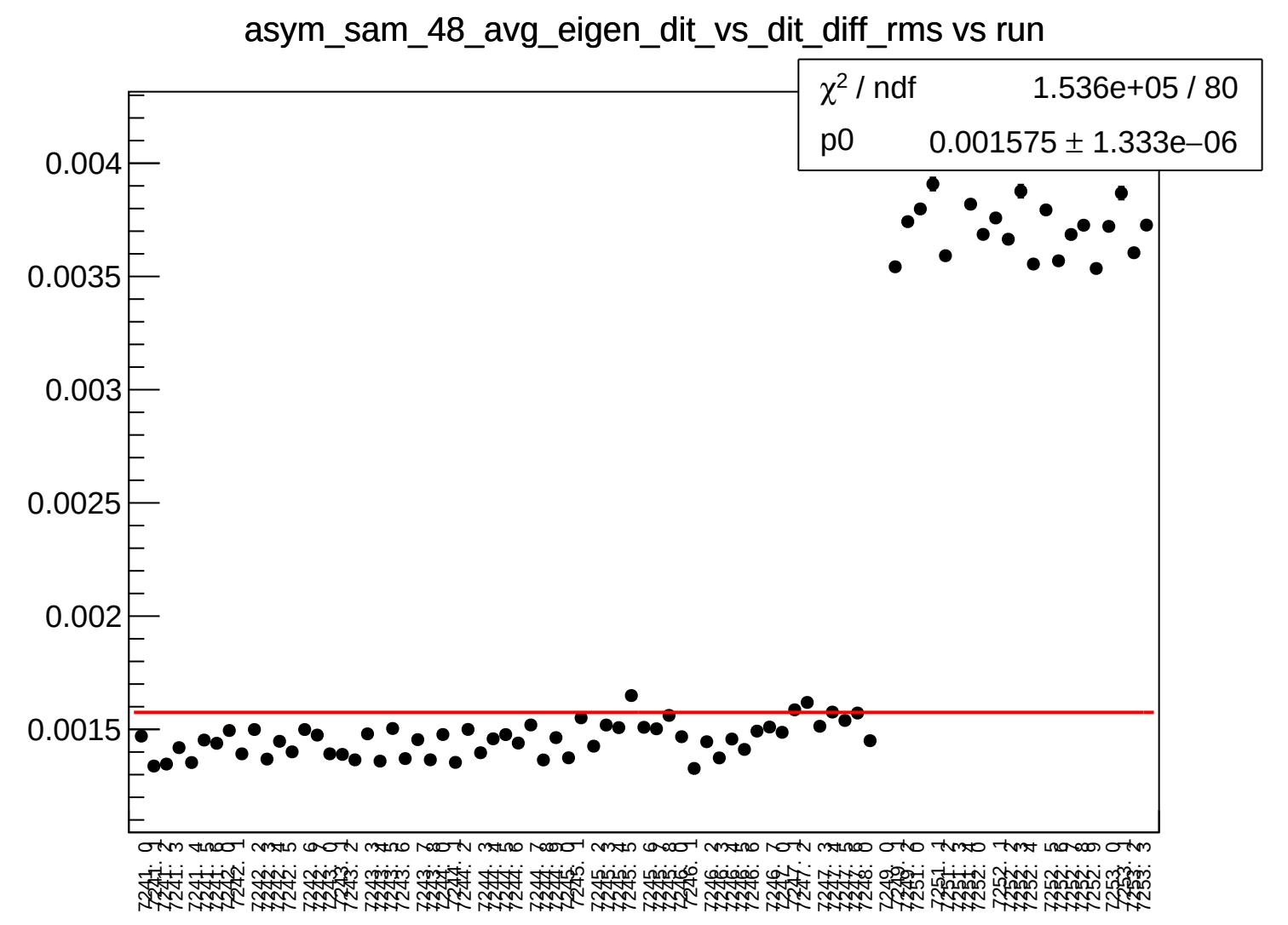

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2808 / 80
p0 56.43 ± 0.04538
62
60
58
56
54
52
50

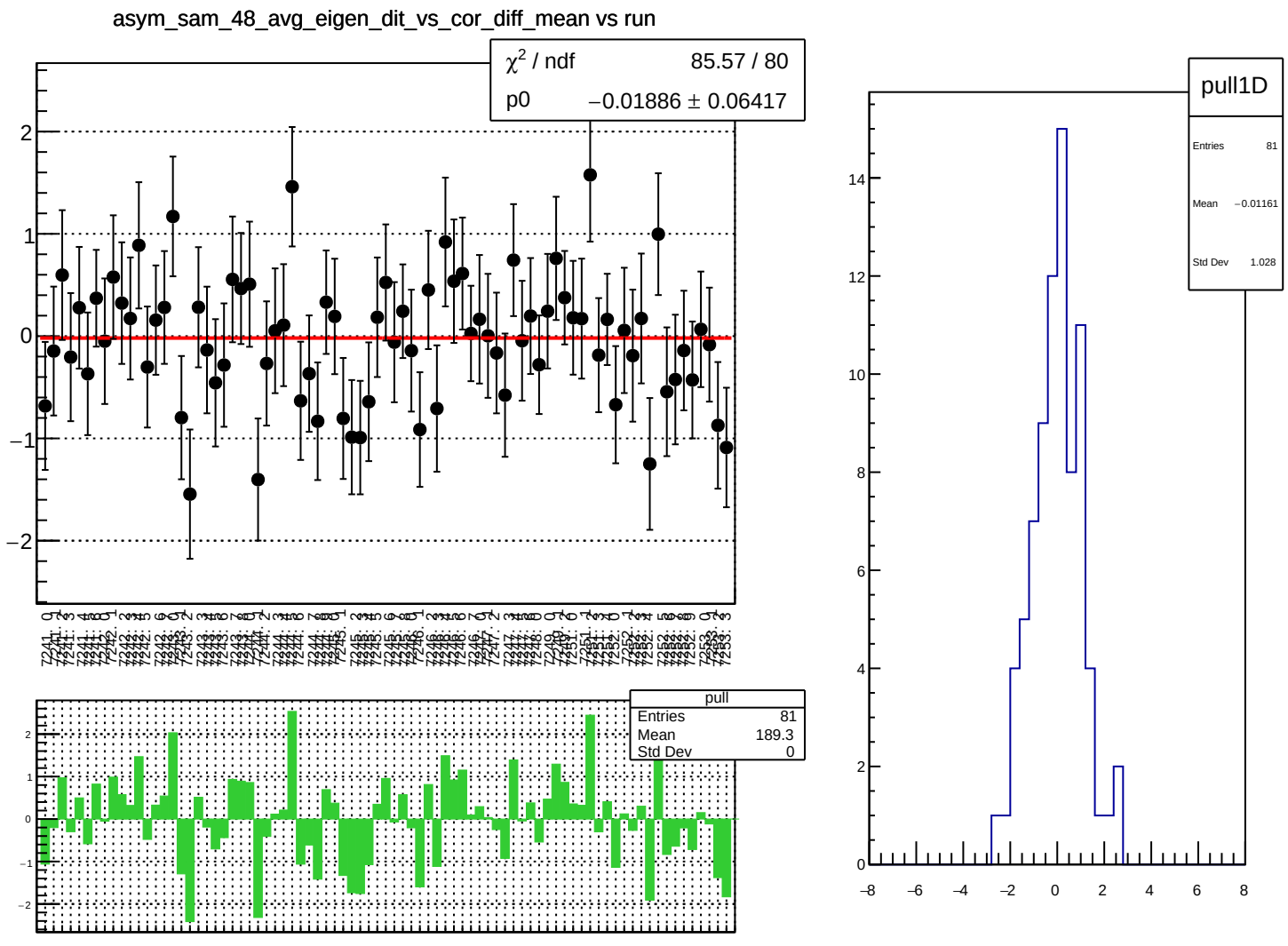

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.57 / 80
p0 −0.01886 ± 0.06417
pull
Entries 81
Mean 189.3
Std Dev 0
pull1D
Entries 81
Mean −0.01161
Std Dev 1.028

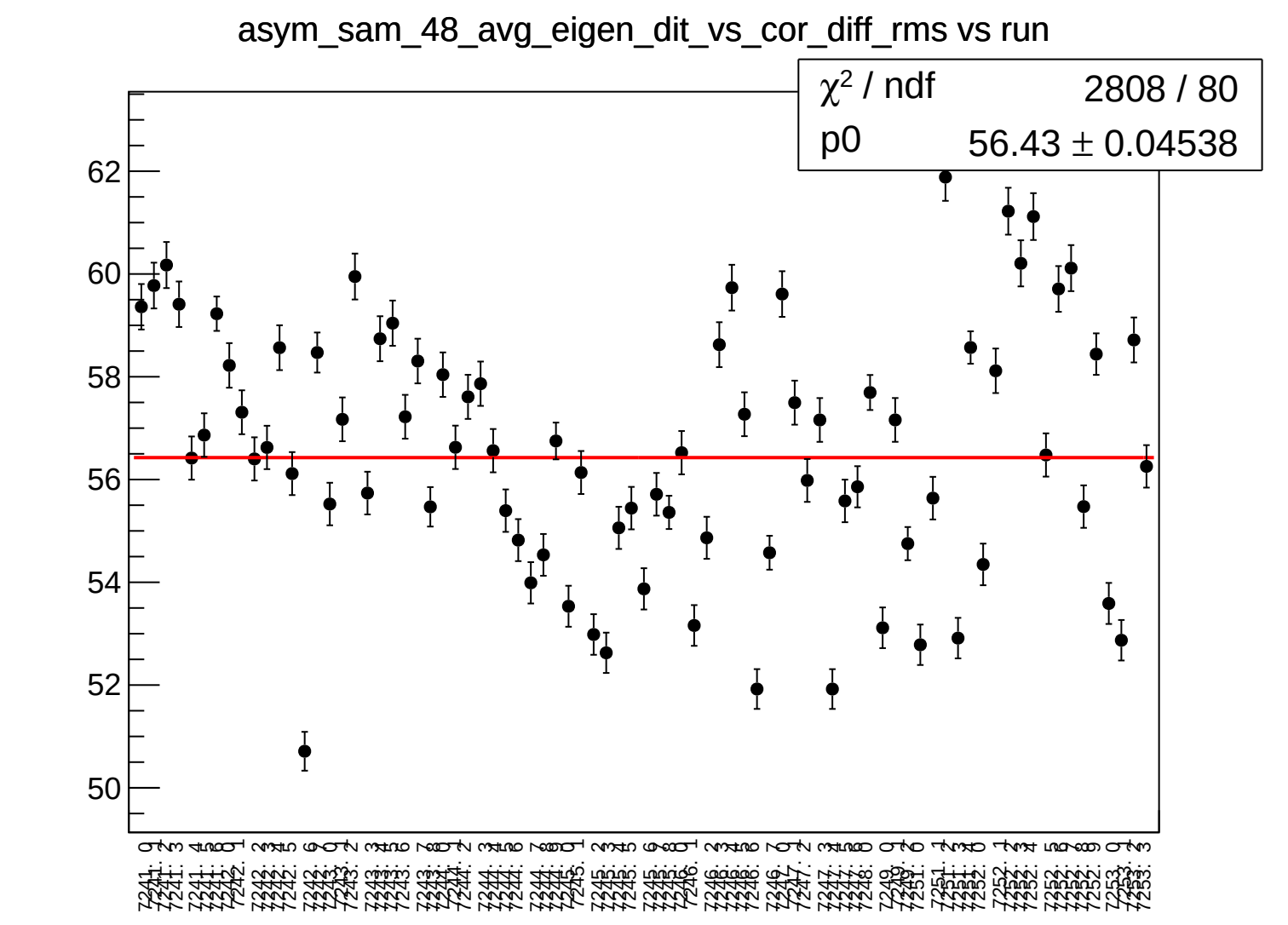

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2808 / 80
p0 56.43 ± 0.04538
62
60
58
56
54
52
50

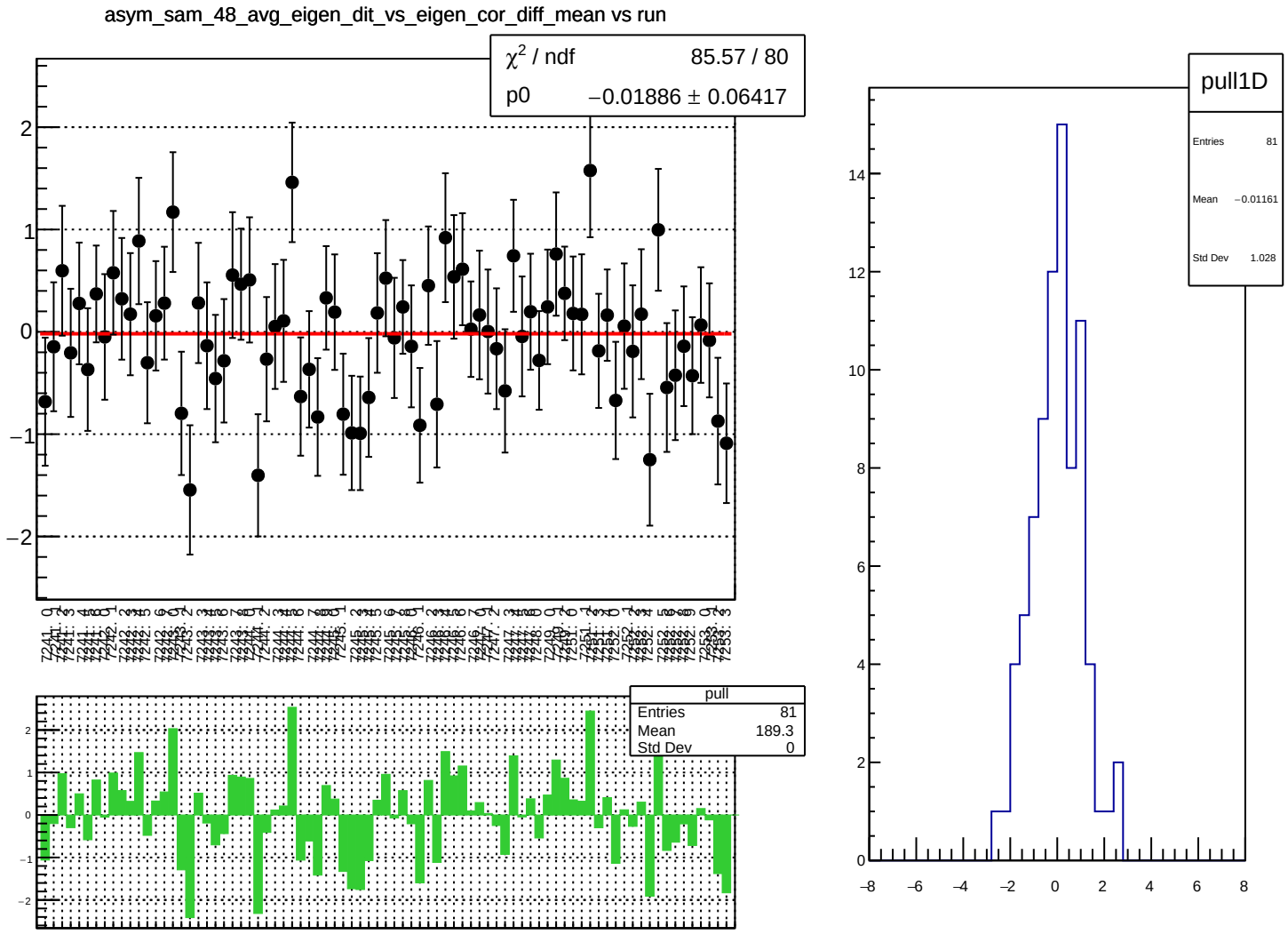

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.04 / 80
p0 −1.11e−06 ± 1.885e−06
pull
Entries 81
Mean 132.4
Std Dev 0

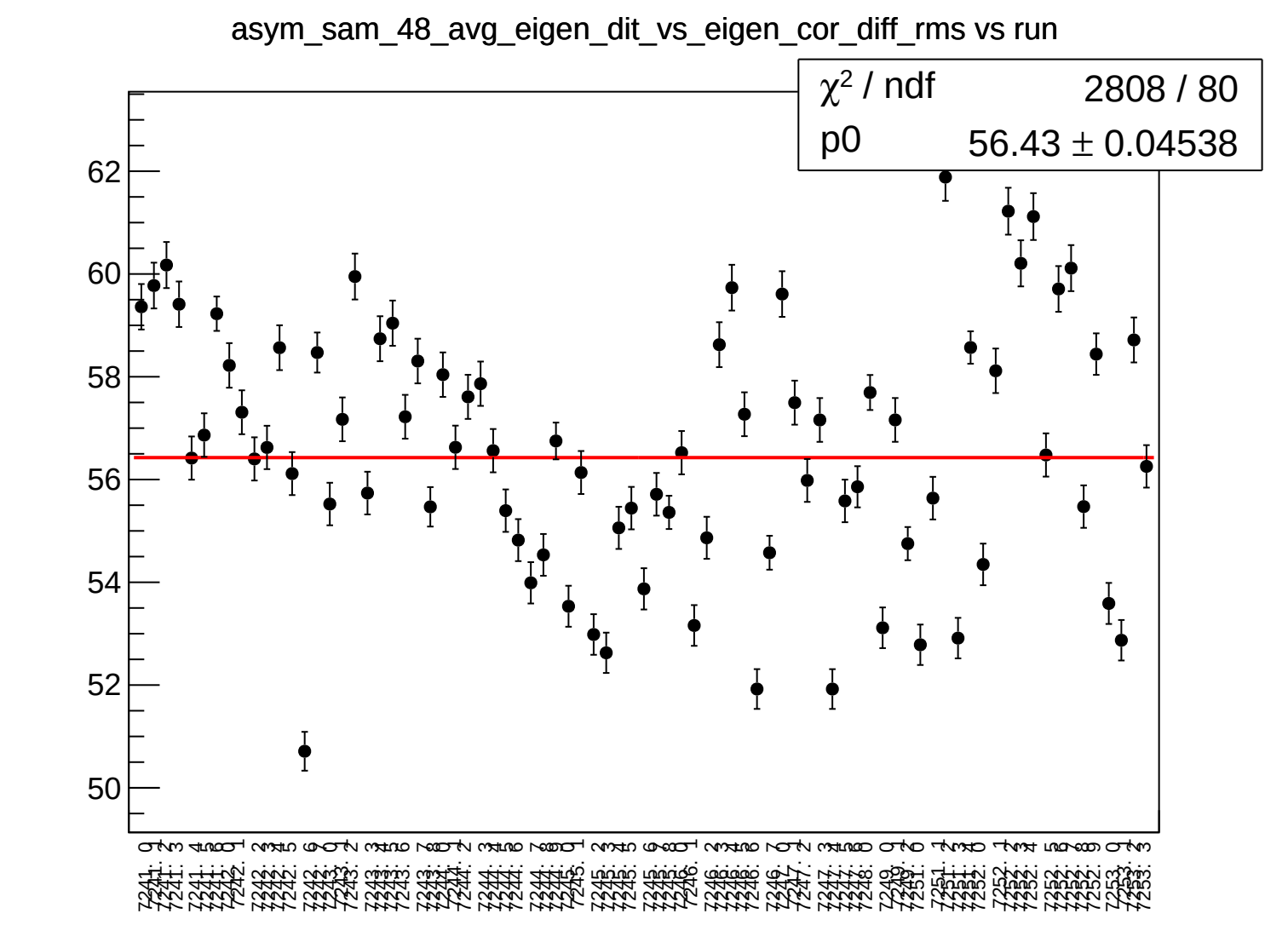

pull1D
Entries 81
Mean 0.03863
Std Dev 1.105

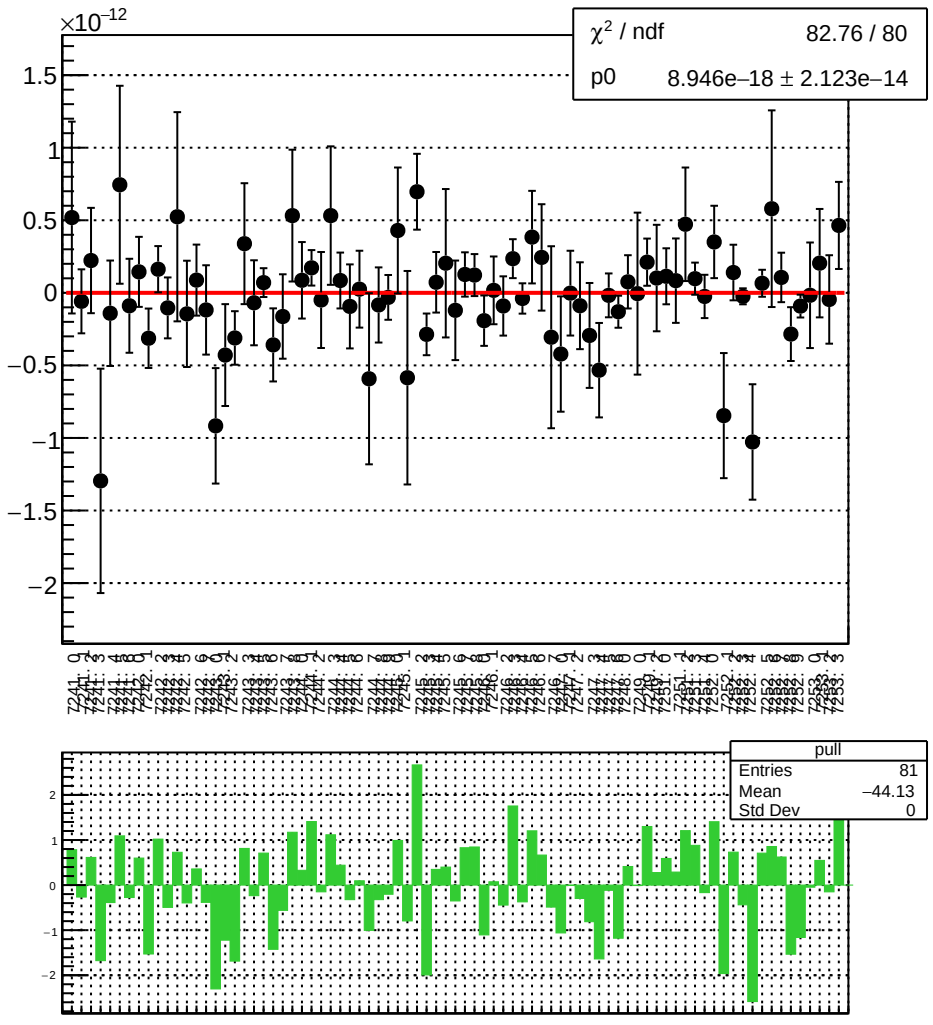

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.536e+05 / 80
p0 0.001575 ± 1.333e−06
0.004
0.0035
0.003
0.0025
0.002
0.0015

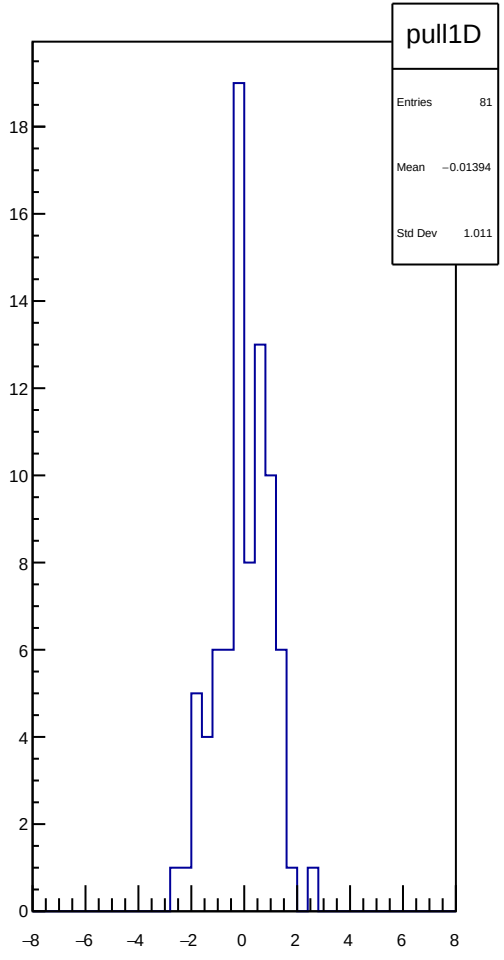

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.57 / 80
p0 −0.01886 ± 0.06417
pull
Entries 81
Mean 189.3
Std Dev 0
pull1D
Entries 81
Mean −0.01161
Std Dev 1.028

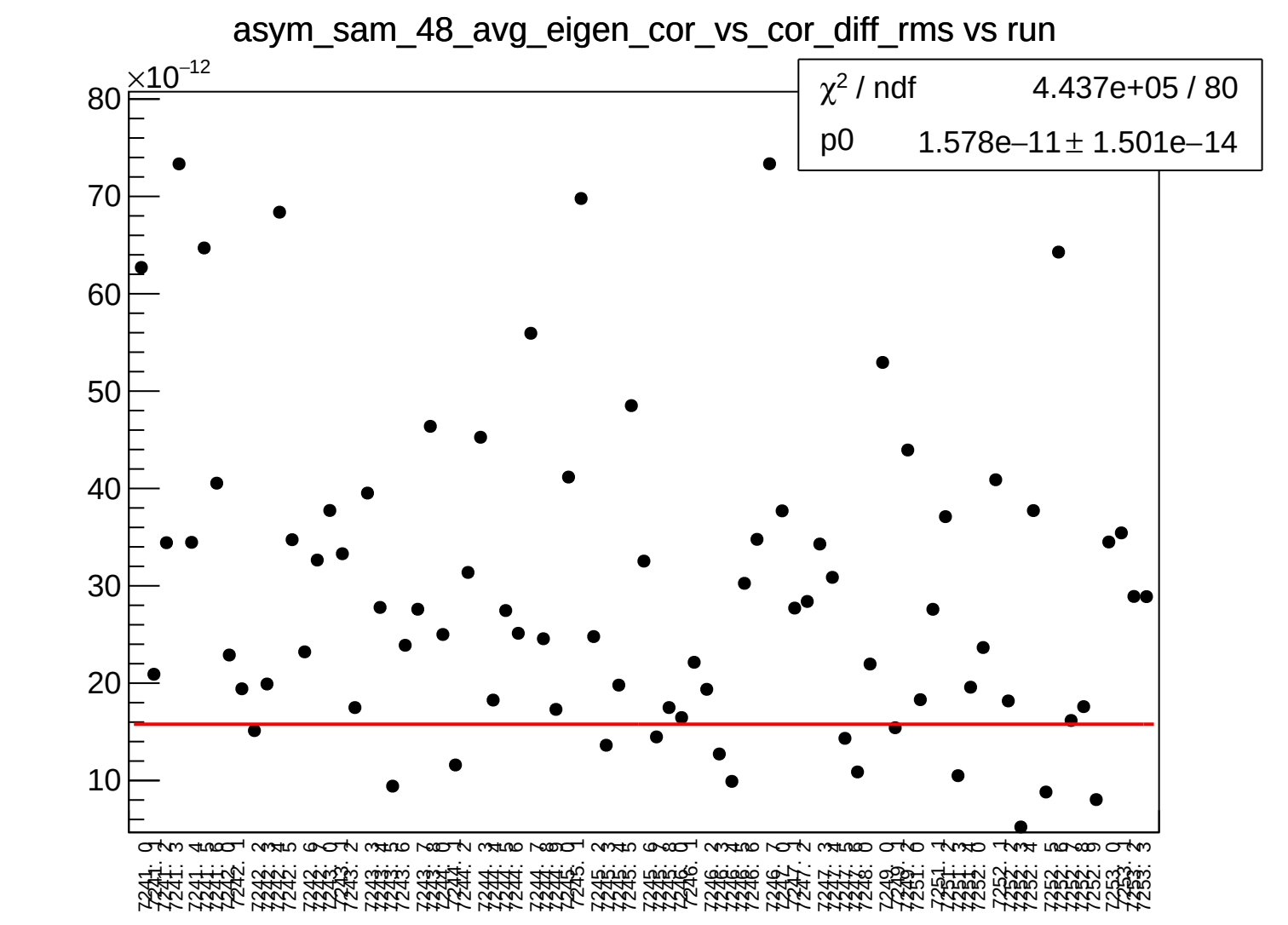

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2808 / 80
p0 56.43 ± 0.04538
62
60
58
56
54
52
50

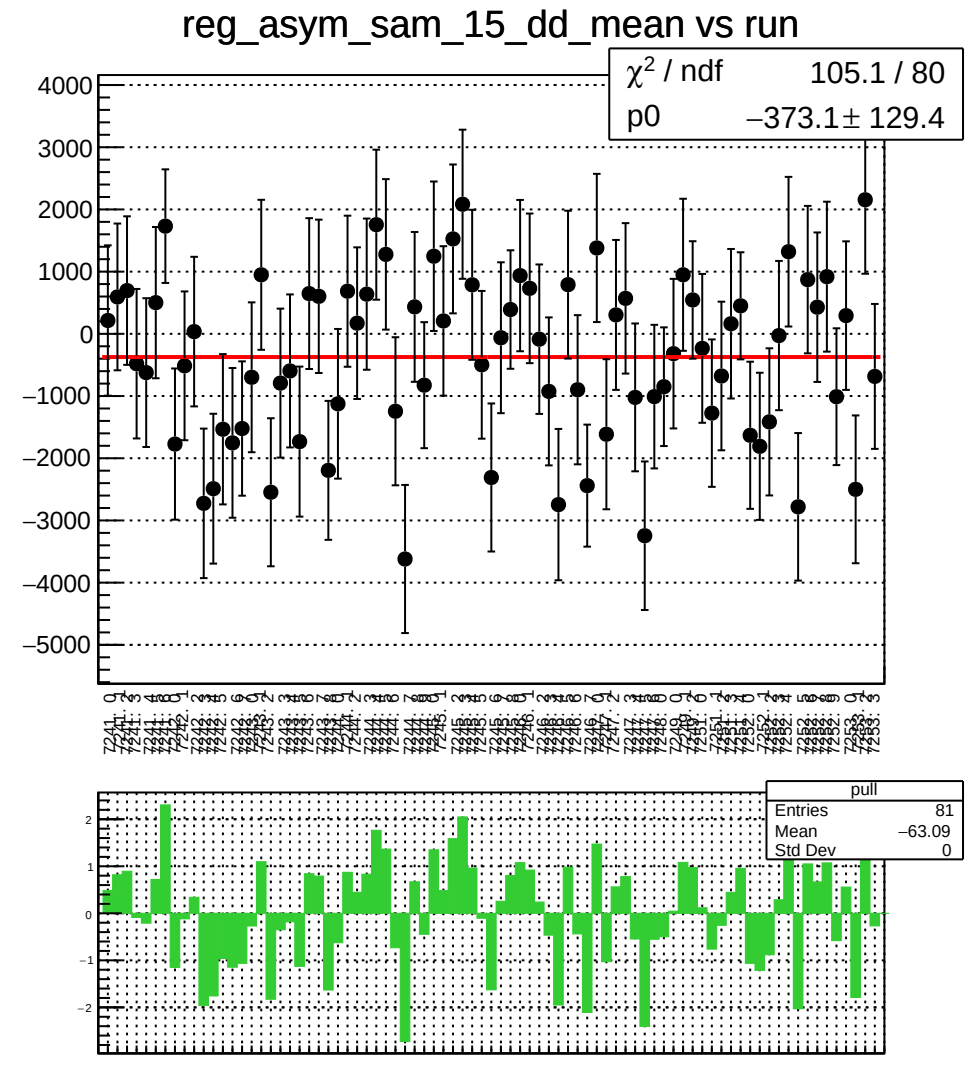

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.57 / 80
p0 −0.01886 ± 0.06417
pull
Entries 81
Mean 189.3
Std Dev 0
pull1D
Entries 81
Mean −0.01161
Std Dev 1.028

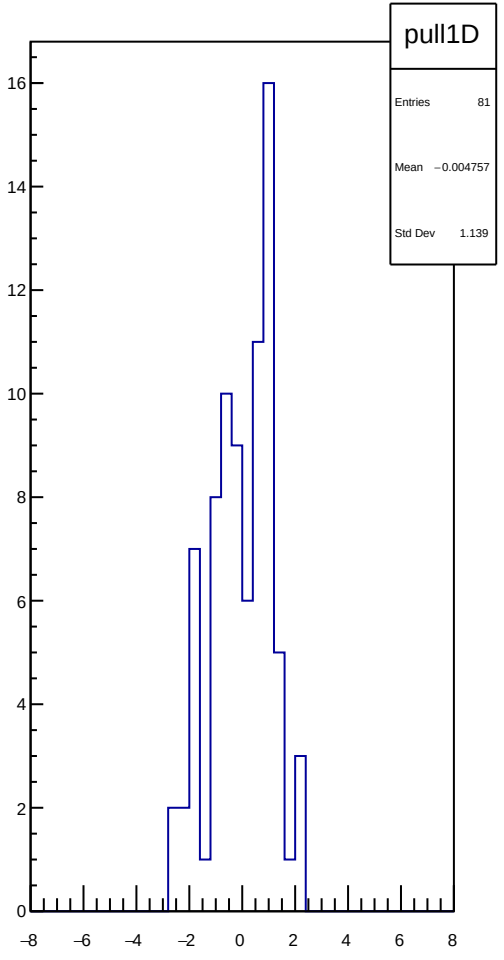

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2808 / 80
p0 56.43 ± 0.04538
62
60
58
56
54
52
50

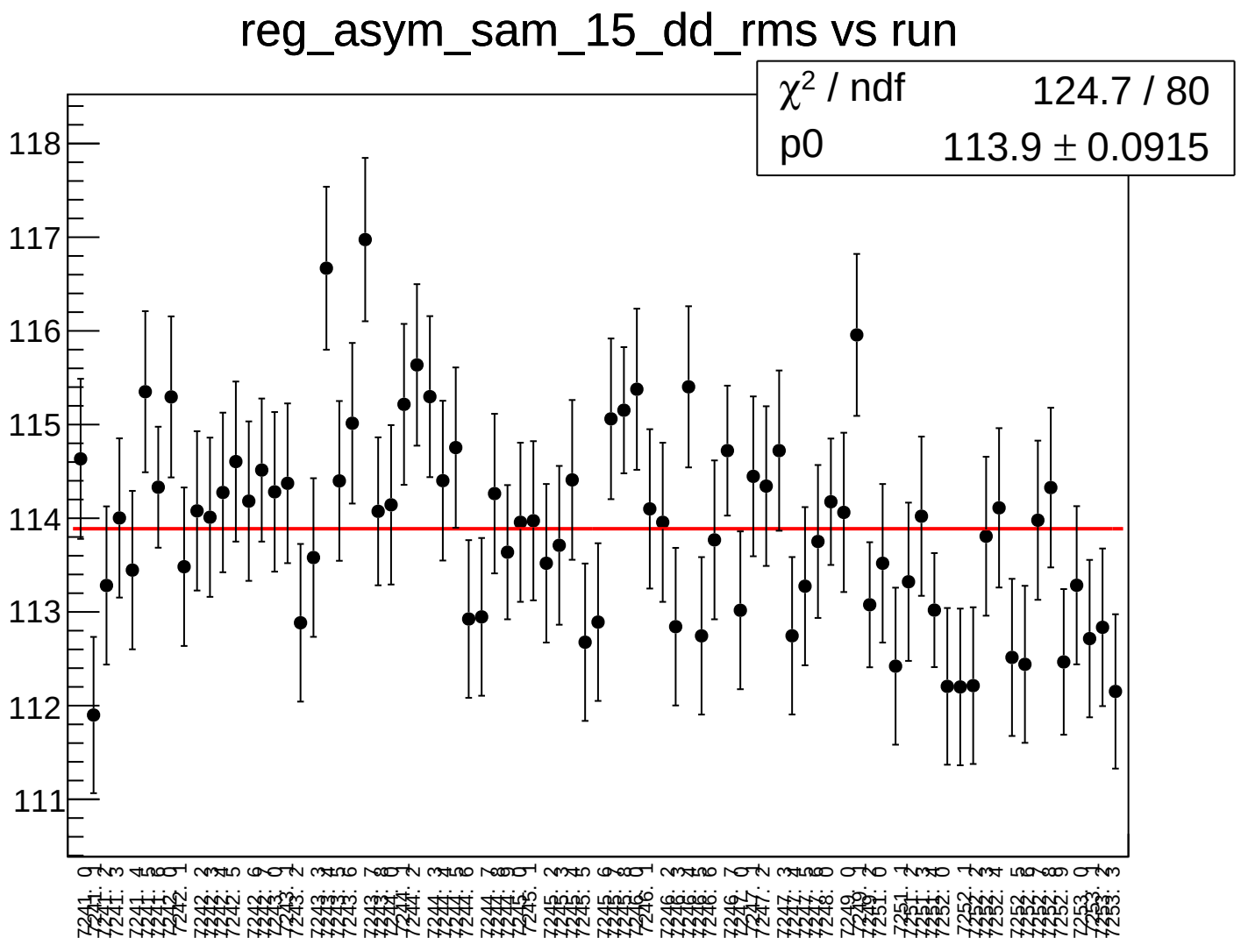

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.76 / 80
p0 8.946e−18 ± 2.123e−14
pull
Entries 81
Mean −44.13
Std Dev 0

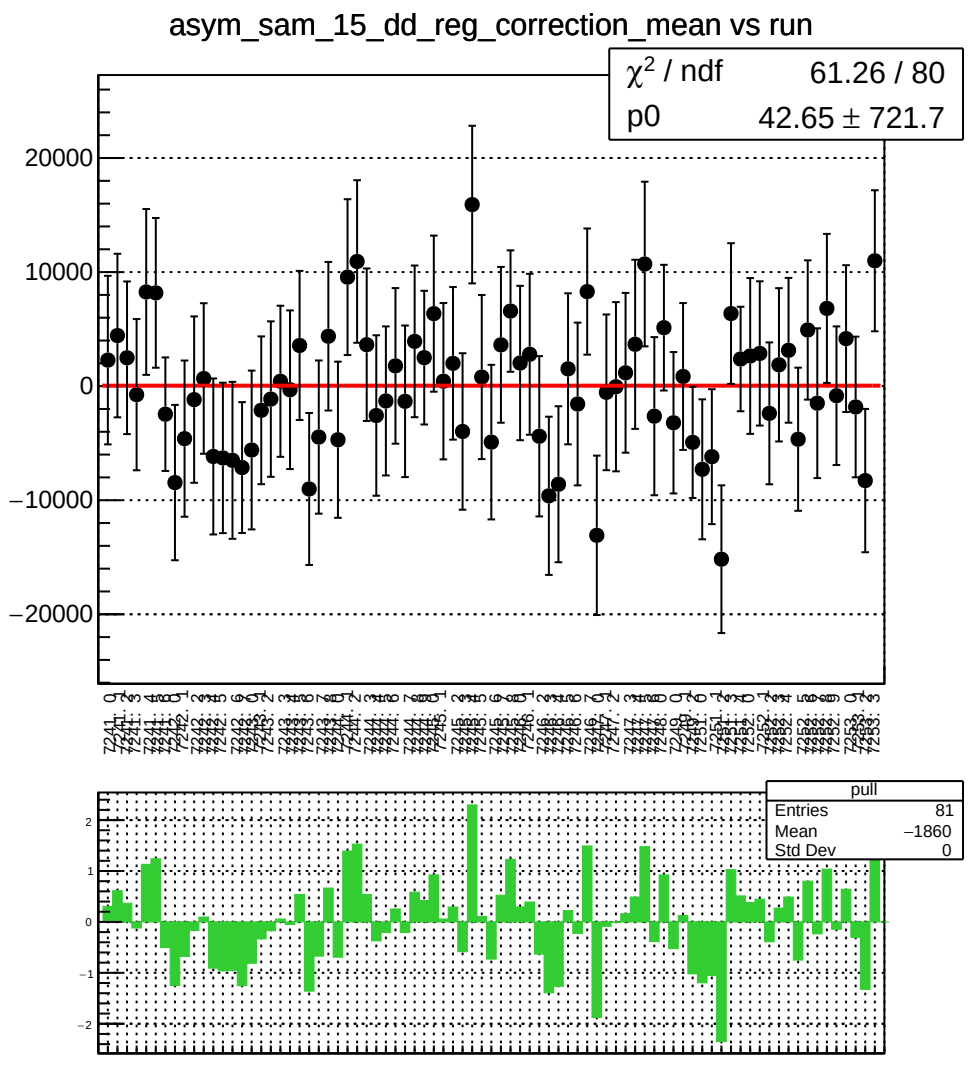

pull1D
Entries 81
Mean −0.01394
Std Dev 1.011

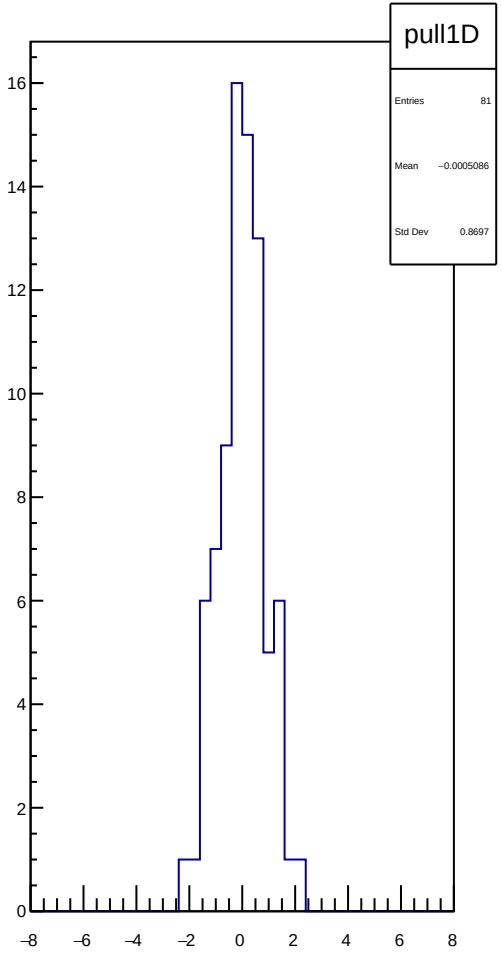

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.437e+05 / 80
p0 1.578e−11 ± 1.501e−14
80
70
60
50
40
30
20
10

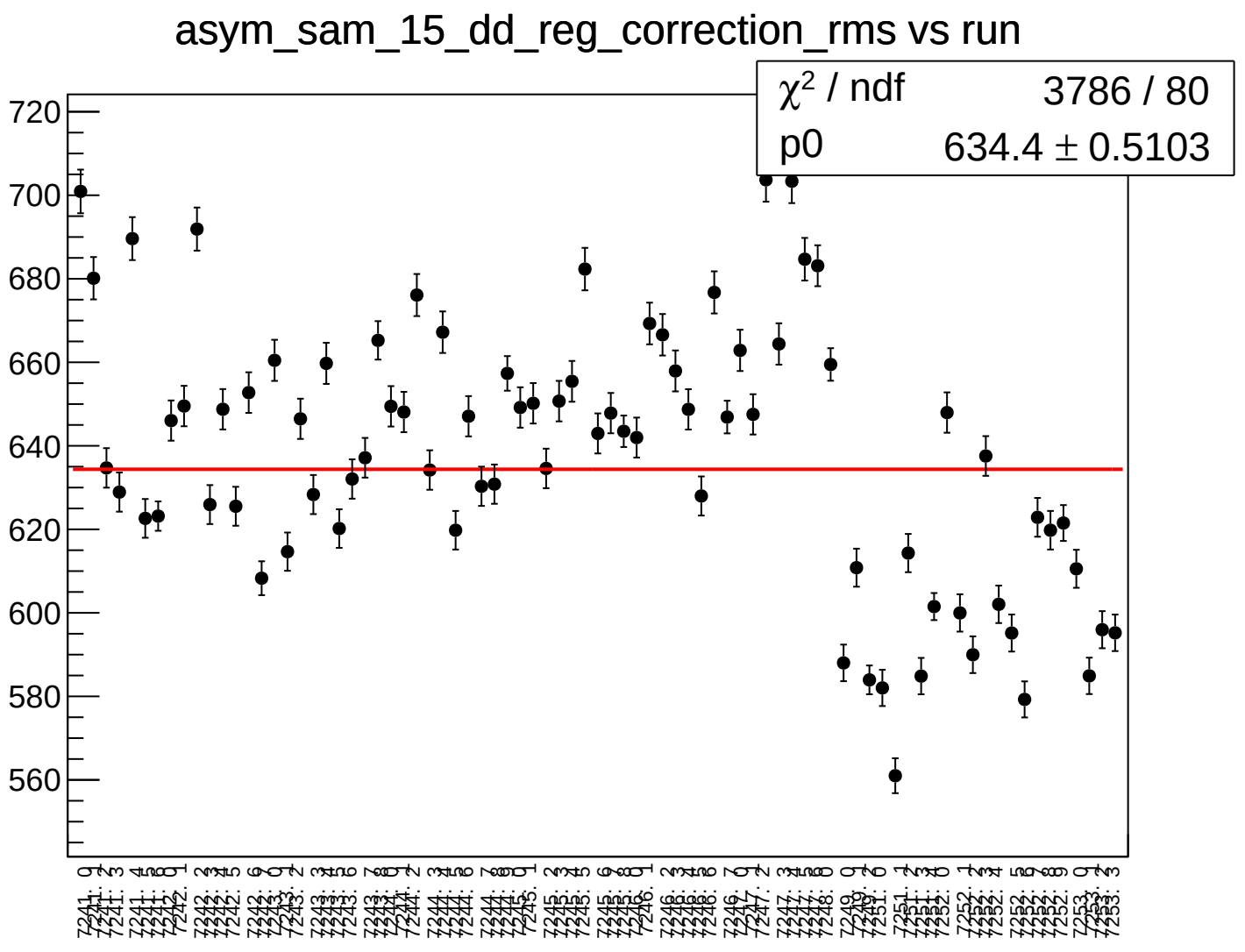

reg_asym_sam_15_dd_mean vs run
χ² / ndf 105.1 / 80
p0 −373.1± 129.4
pull
Entries 81
Mean −63.09
Std Dev 0

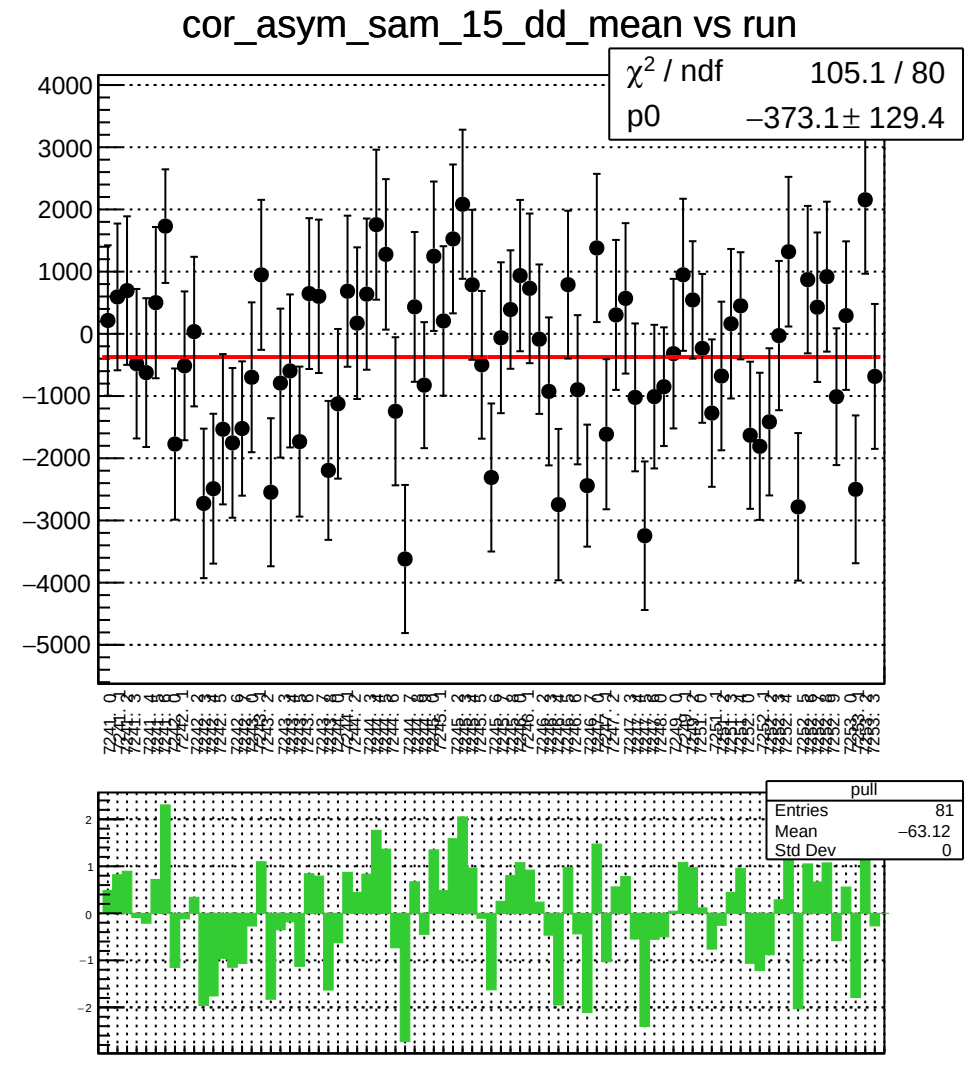

pull1D
Entries 81
Mean −0.004757
Std Dev 1.139

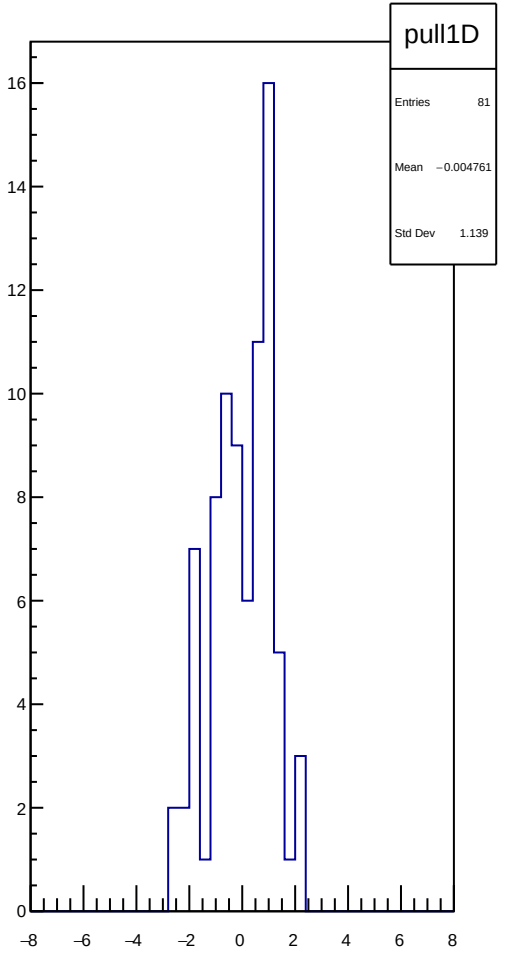

reg_asym_sam_15_dd_rms vs run
χ^2 / ndf 124.7 / 80
p0 113.9 ± 0.0915
118
117
116
115
114
113
112
111

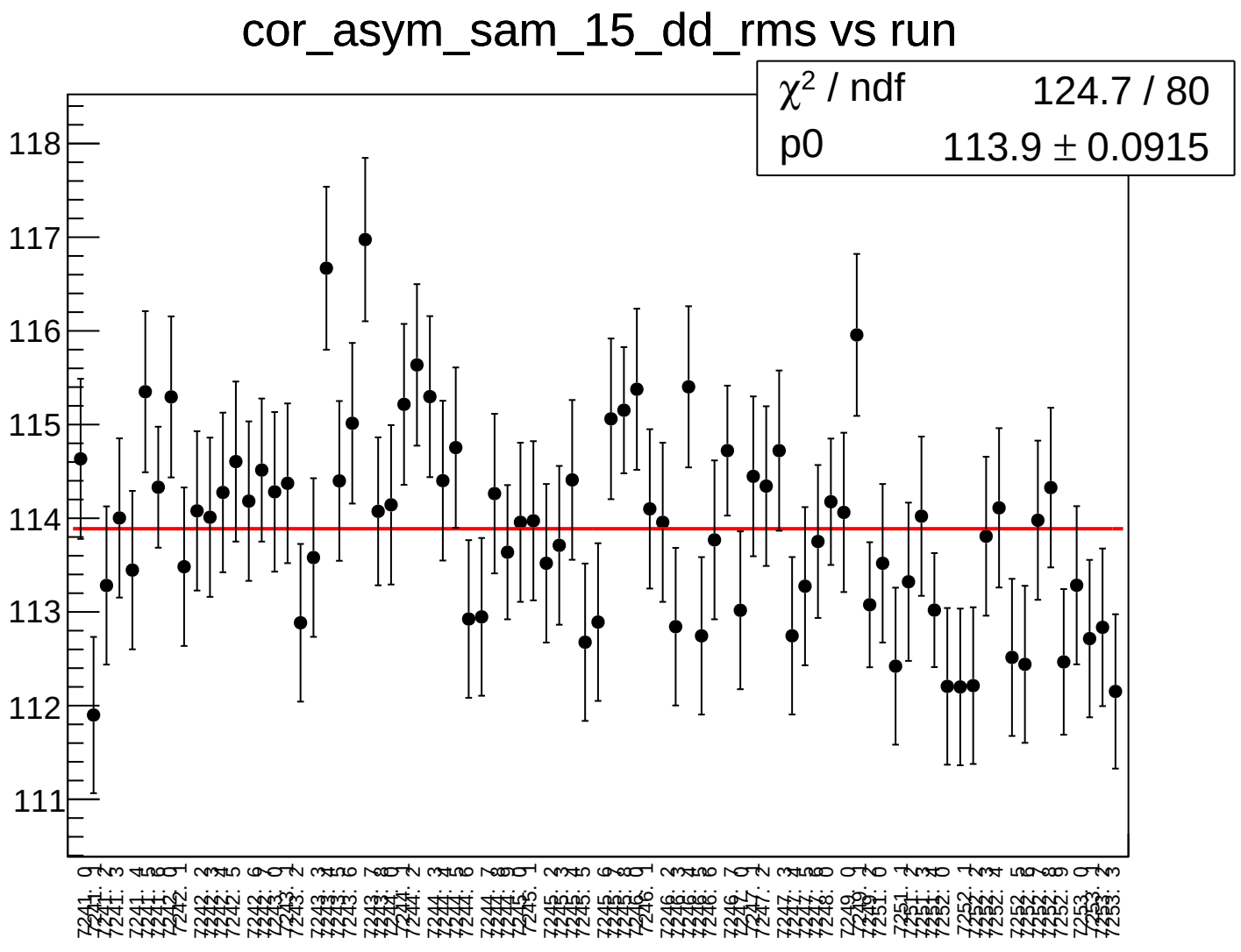

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 61.26 / 80
p0 42.65 ± 721.7
20000
10000
0
−10000
−20000
pull
Entries 81
Mean −1860
Std Dev 0
2
1
0
−1
−2

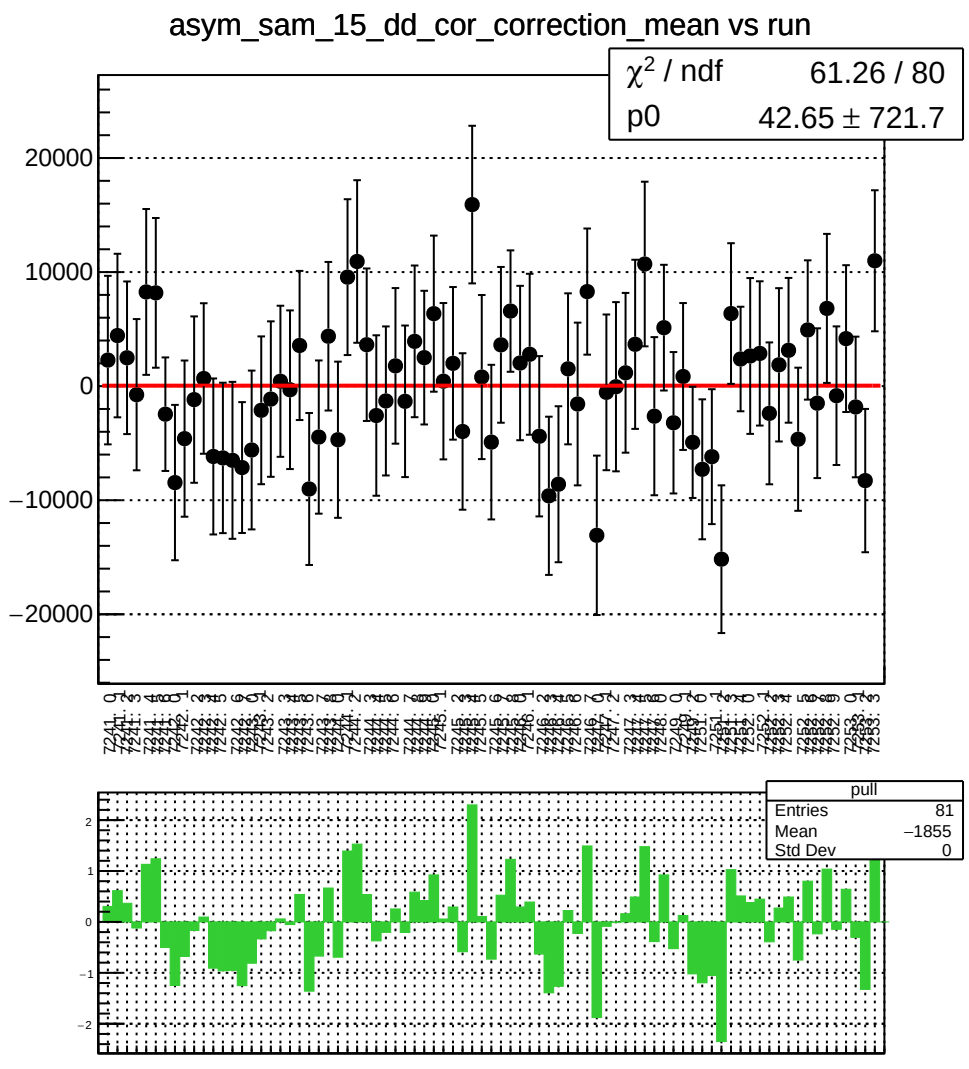

pull1D
Entries 81
Mean −0.0005086
Std Dev 0.8697
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

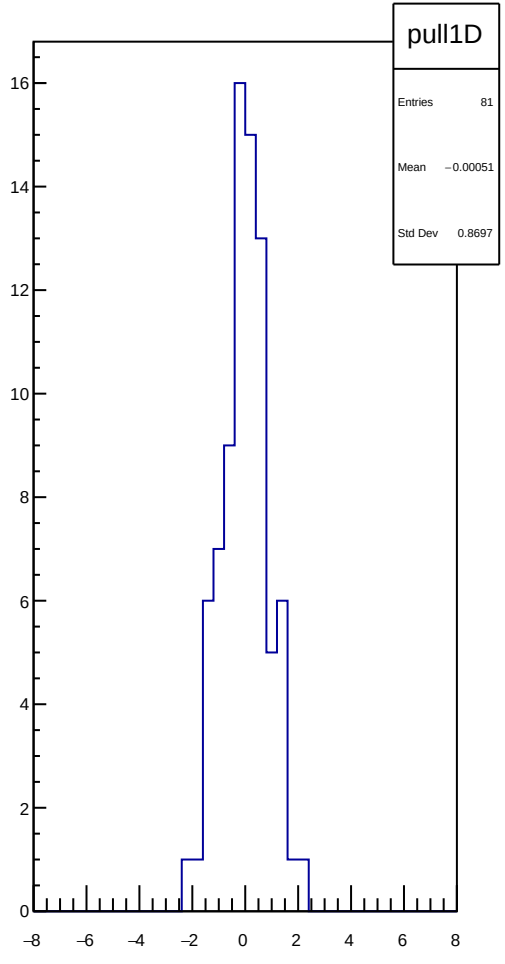

asym_sam_15_dd_reg_correction_rms vs run
χ² / ndf 3786 / 80
p0 634.4 ± 0.5103
720
700
680
660
640
620
600
580
560

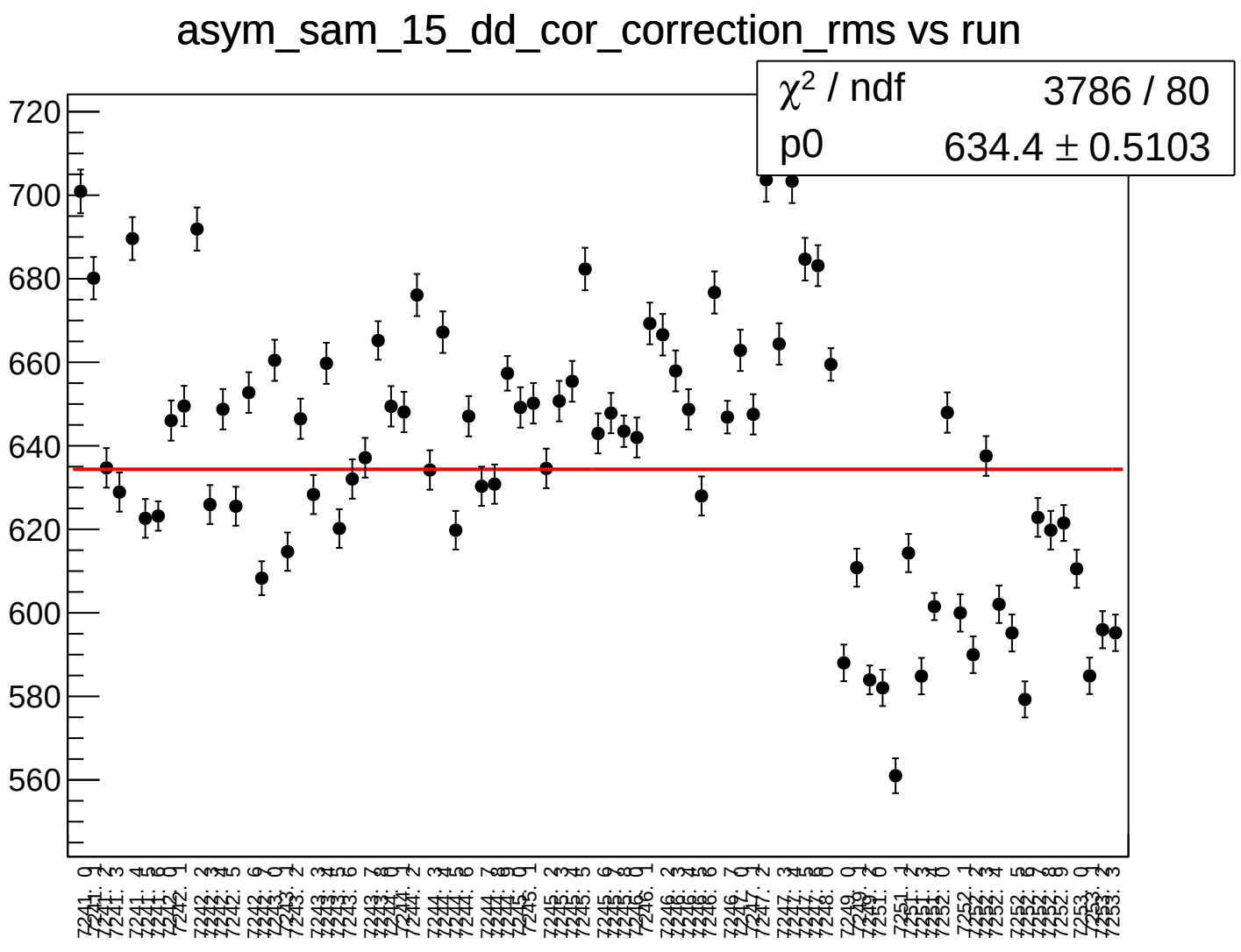

cor_asym_sam_15_dd_mean vs run
χ² / ndf 105.1 / 80
p0 −373.1± 129.4
pull
Entries 81
Mean −63.12
Std Dev 0

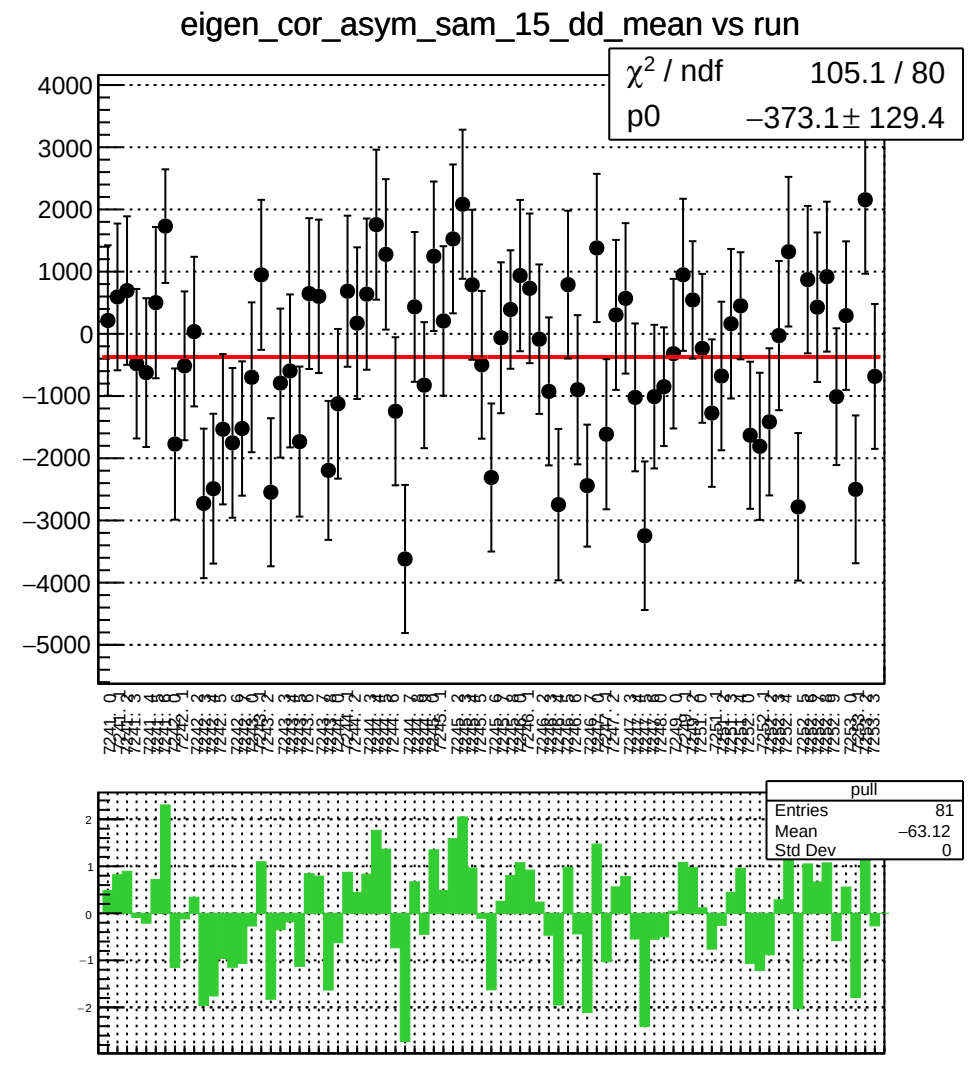

pull1D
Entries 81
Mean −0.004761
Std Dev 1.139

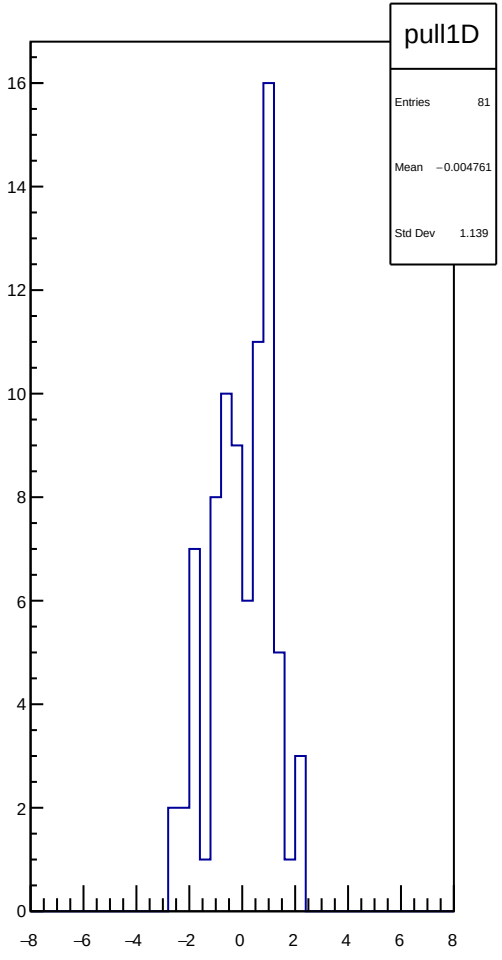

cor_asym_sam_15_dd_rms vs run
χ² / ndf 124.7 / 80
p0 113.9 ± 0.0915
118
117
116
115
114
113
112
111

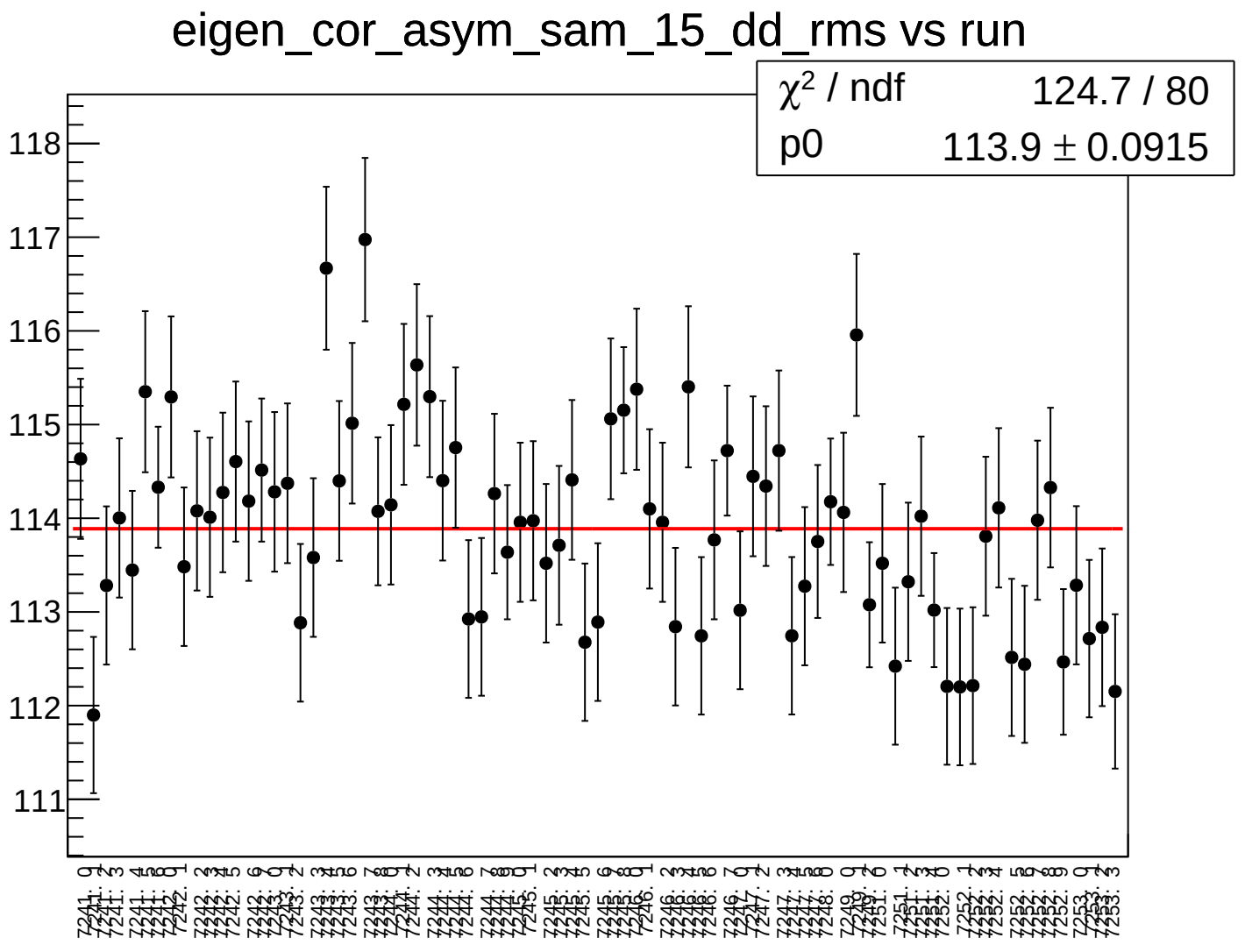

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 61.26 / 80
p0 42.65 ± 721.7
20000
10000
0
−10000
−20000
pull
Entries 81
Mean −1855
Std Dev 0
2
1
0
−1
−2

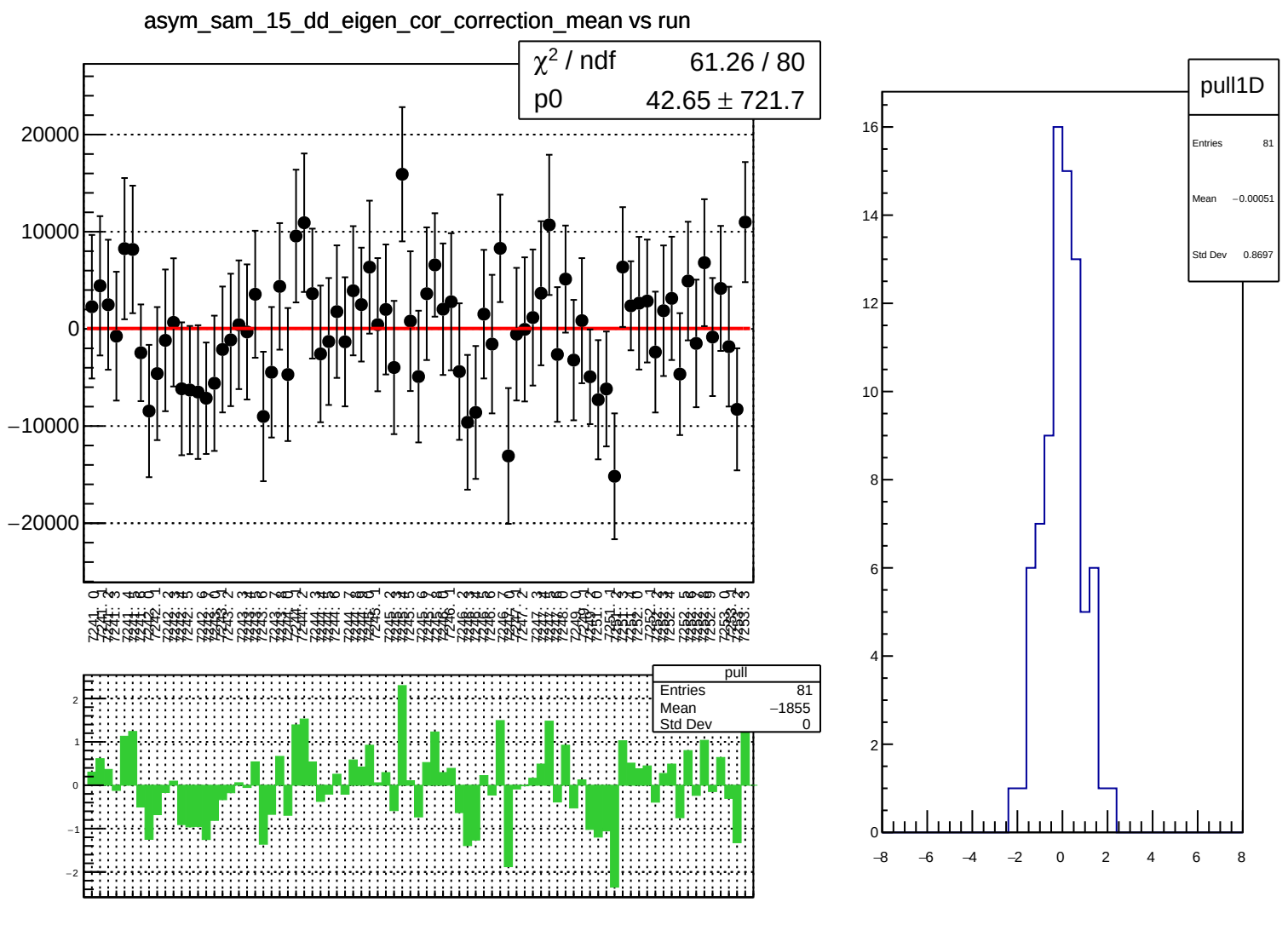

pull1D
Entries 81
Mean −0.00051
Std Dev 0.8697
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

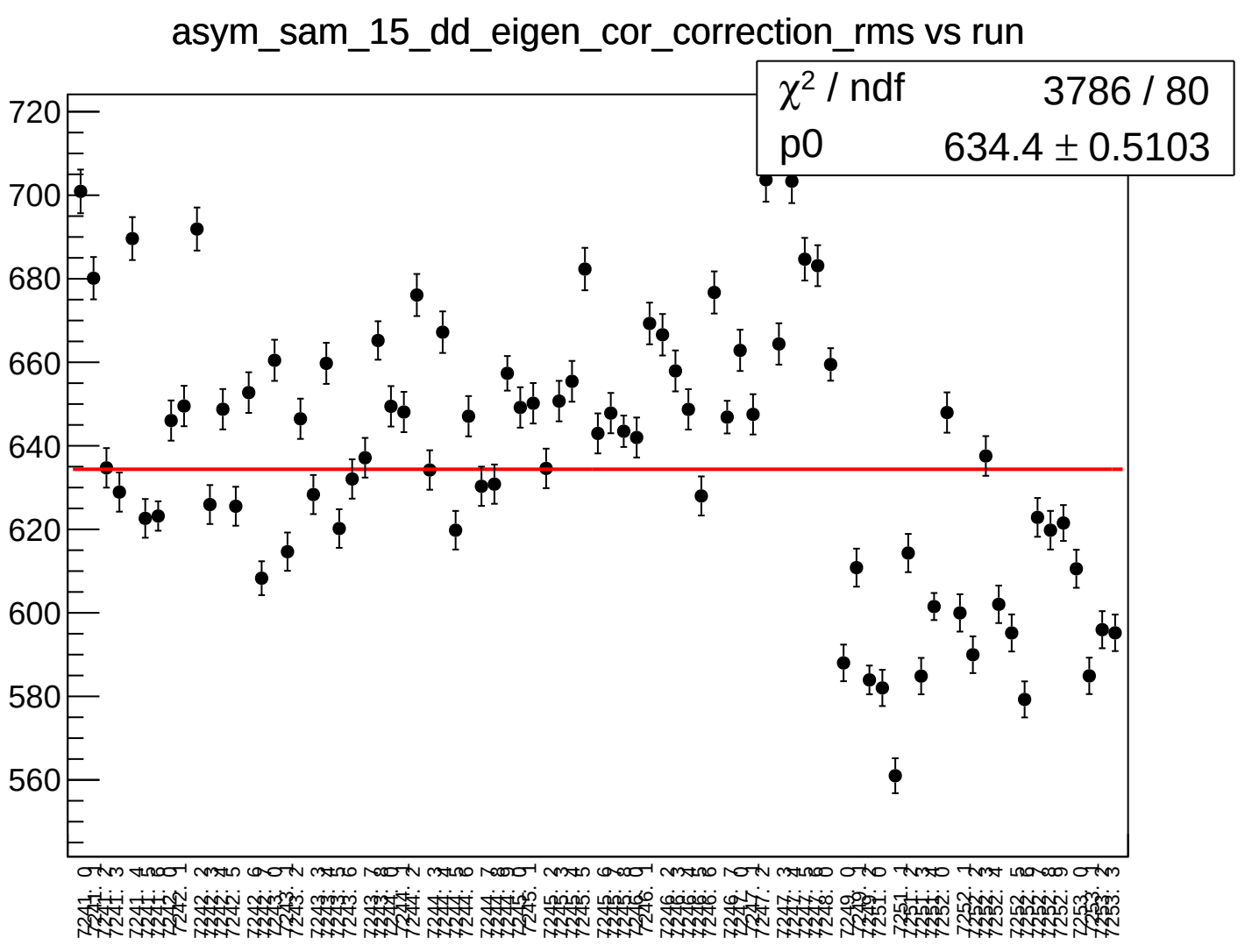

asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 3786 / 80
p0 634.4 ± 0.5103
720
700
680
660
640
620
600
580
560

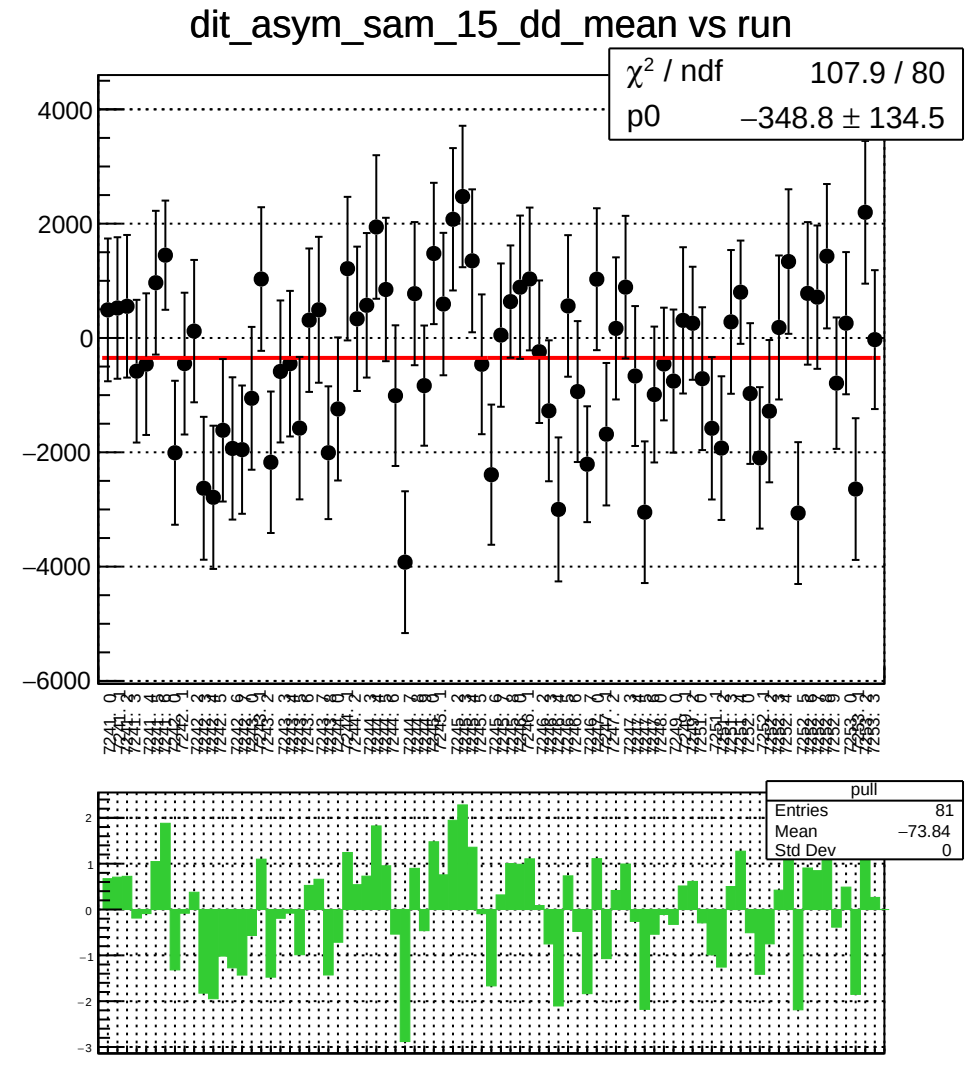

eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 105.1 / 80
p0 −373.1± 129.4
pull
Entries 81
Mean −63.12
Std Dev 0

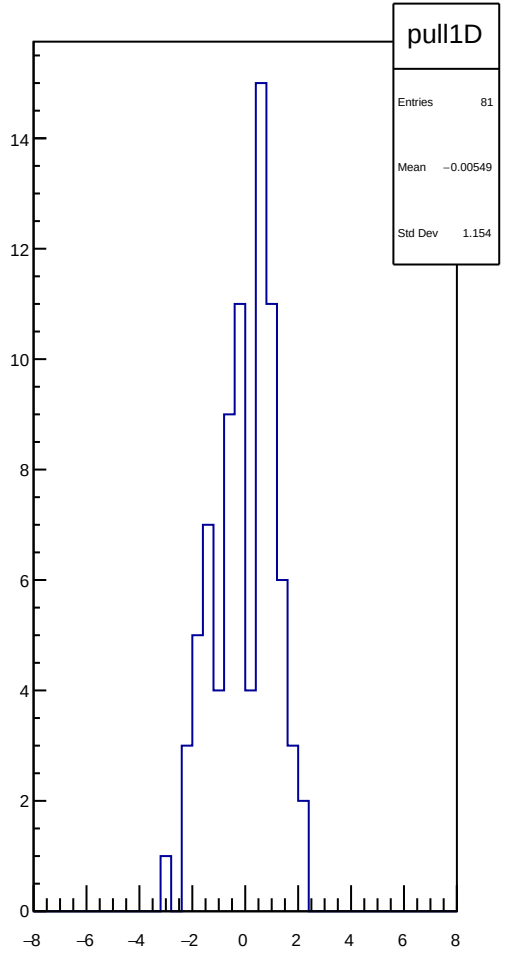

pull1D
Entries 81
Mean −0.004761
Std Dev 1.139

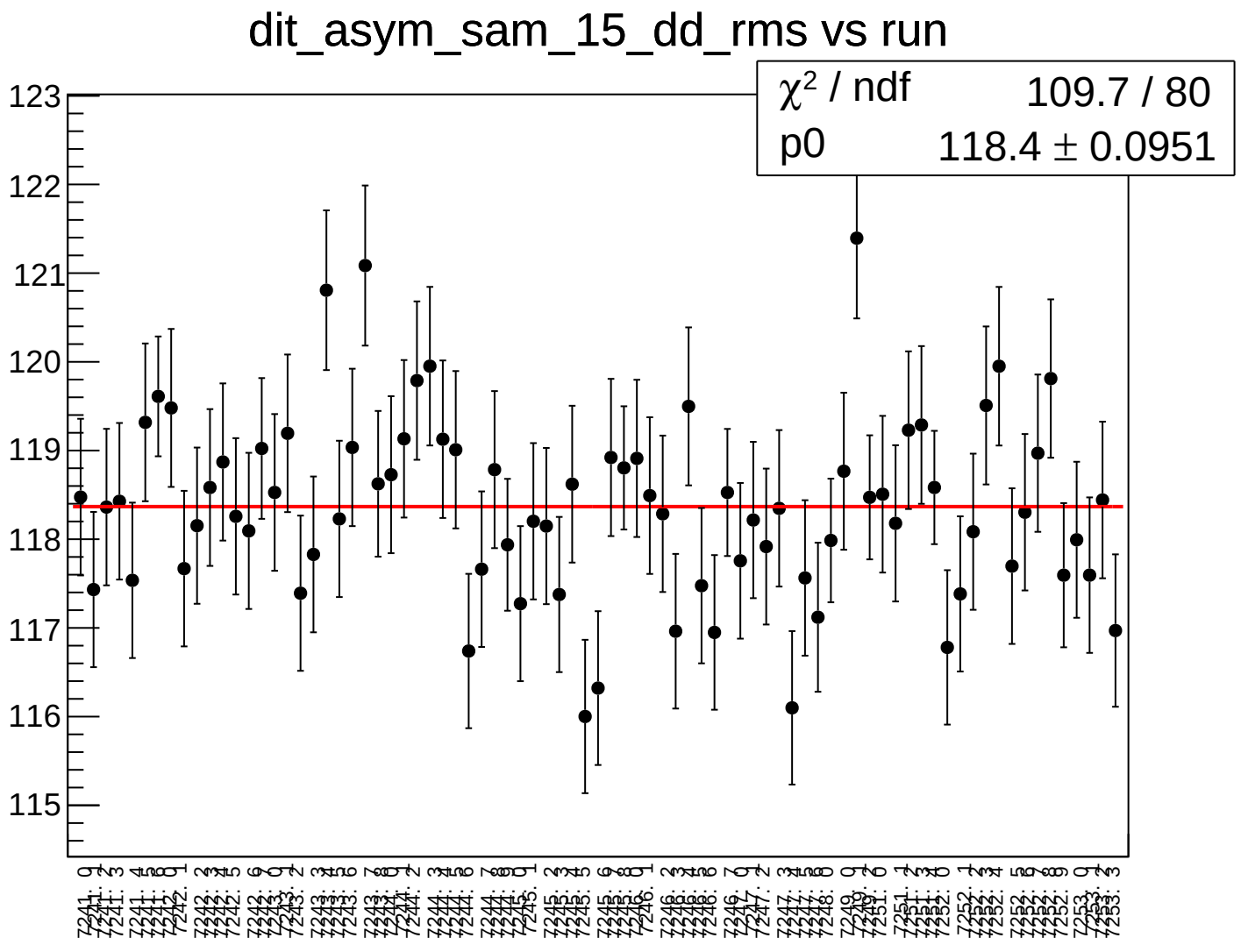

eigen_cor_asym_sam_15_dd_rms vs run
χ^2 / ndf 124.7 / 80
p0 113.9 ± 0.0915
118
117
116
115
114
113
112
111

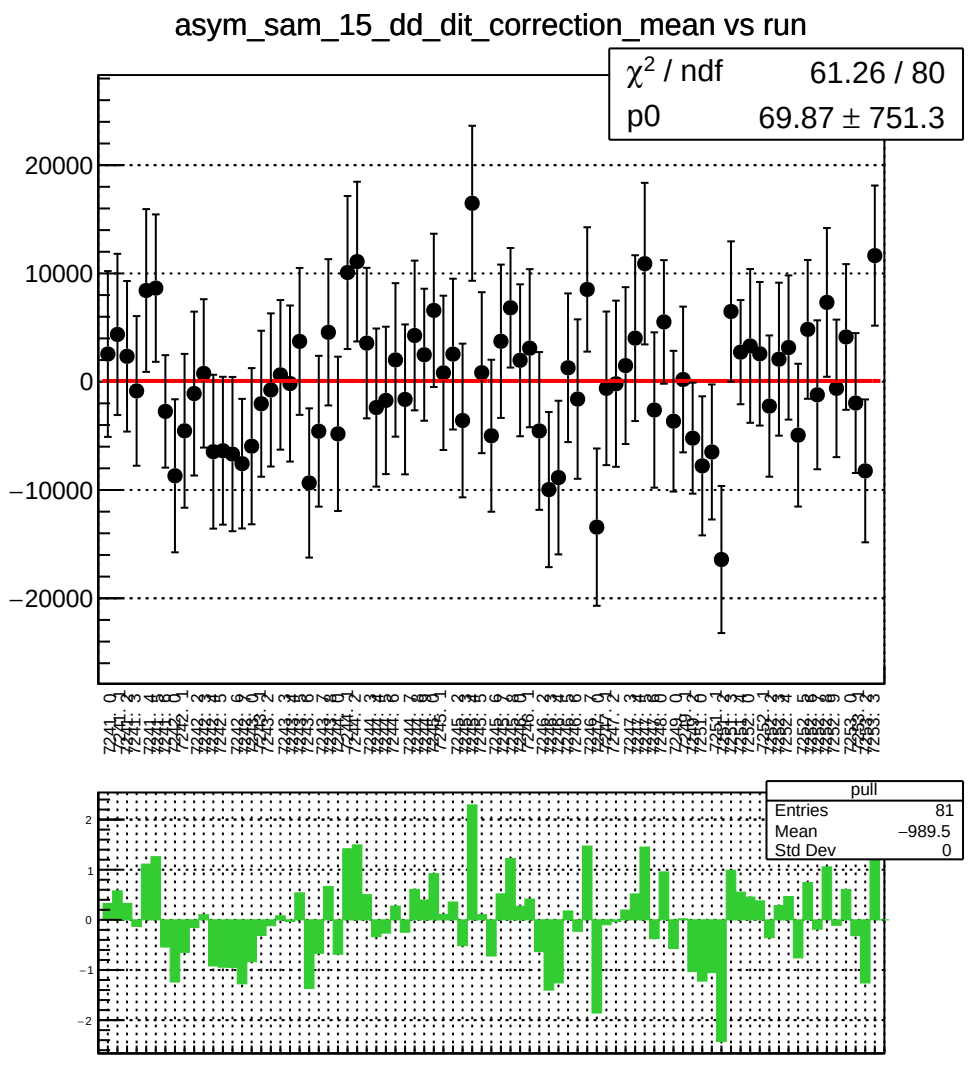

asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 61.26 / 80
p0 42.65 ± 721.7
20000
10000
0
−10000
−20000
pull
Entries 81
Mean −1855
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 81
Mean −0.00051
Std Dev 0.8697
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

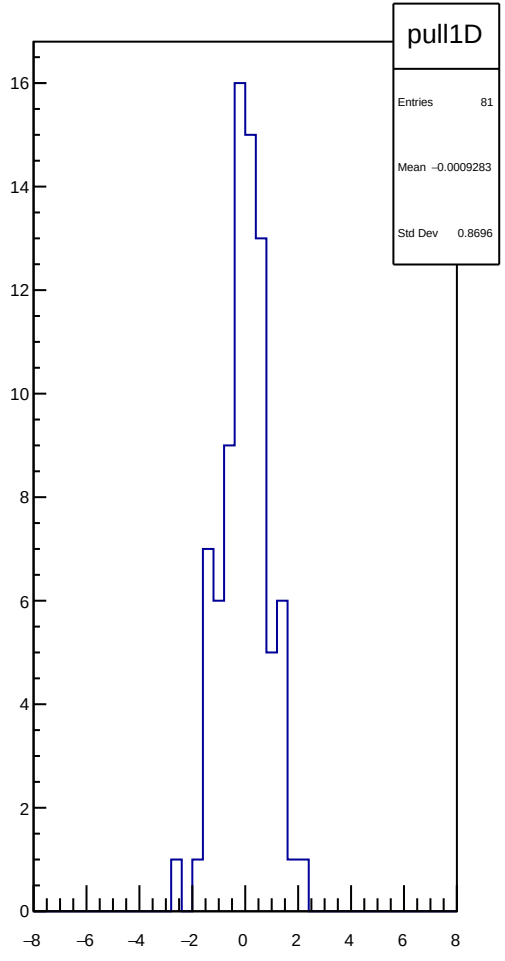

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 3786 / 80
p0 634.4 ± 0.5103
720
700
680
660
640
620
600
580
560

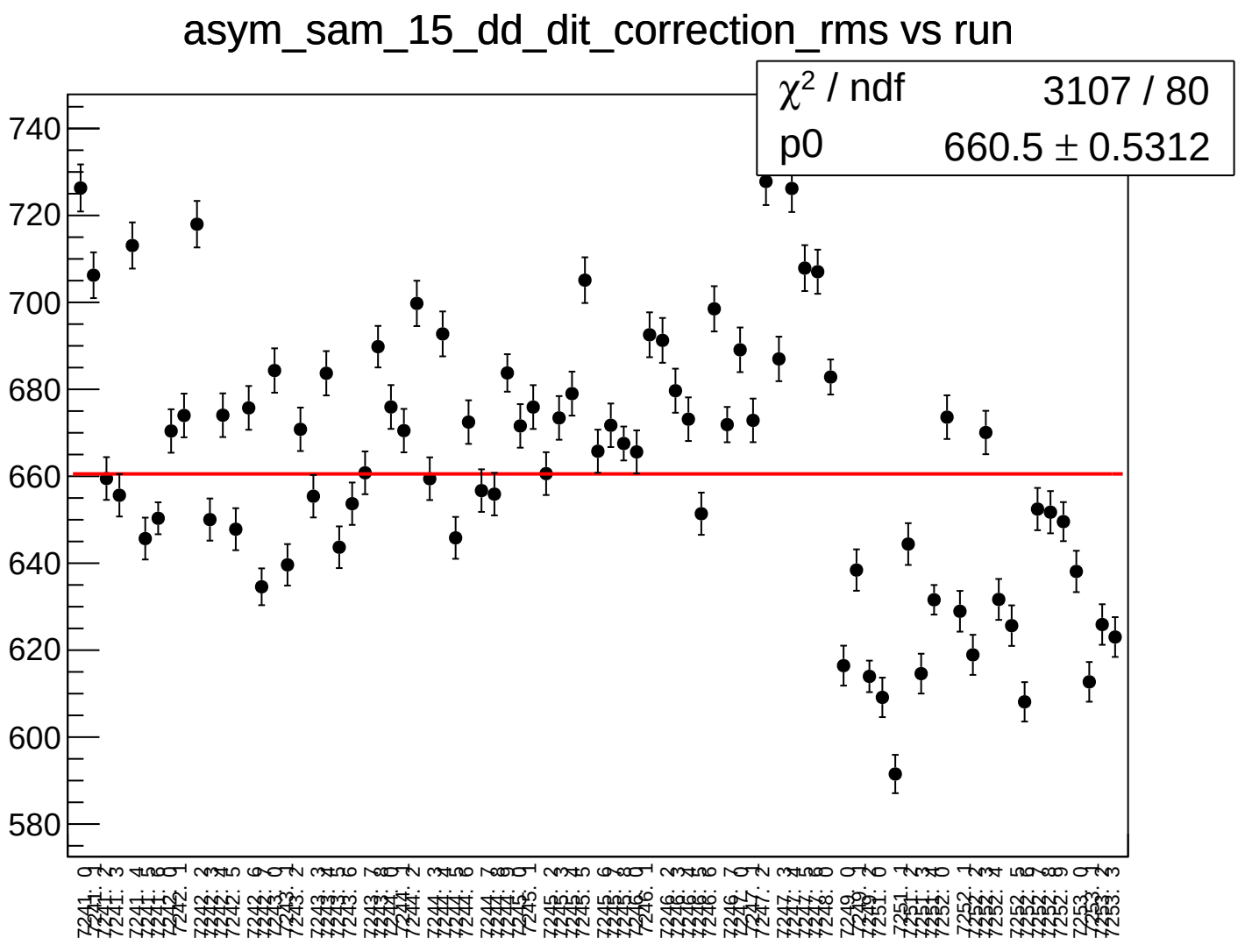

dit_asym_sam_15_dd_mean vs run
χ² / ndf 107.9 / 80
p0 −348.8 ± 134.5
pull
Entries 81
Mean −73.84
Std Dev 0

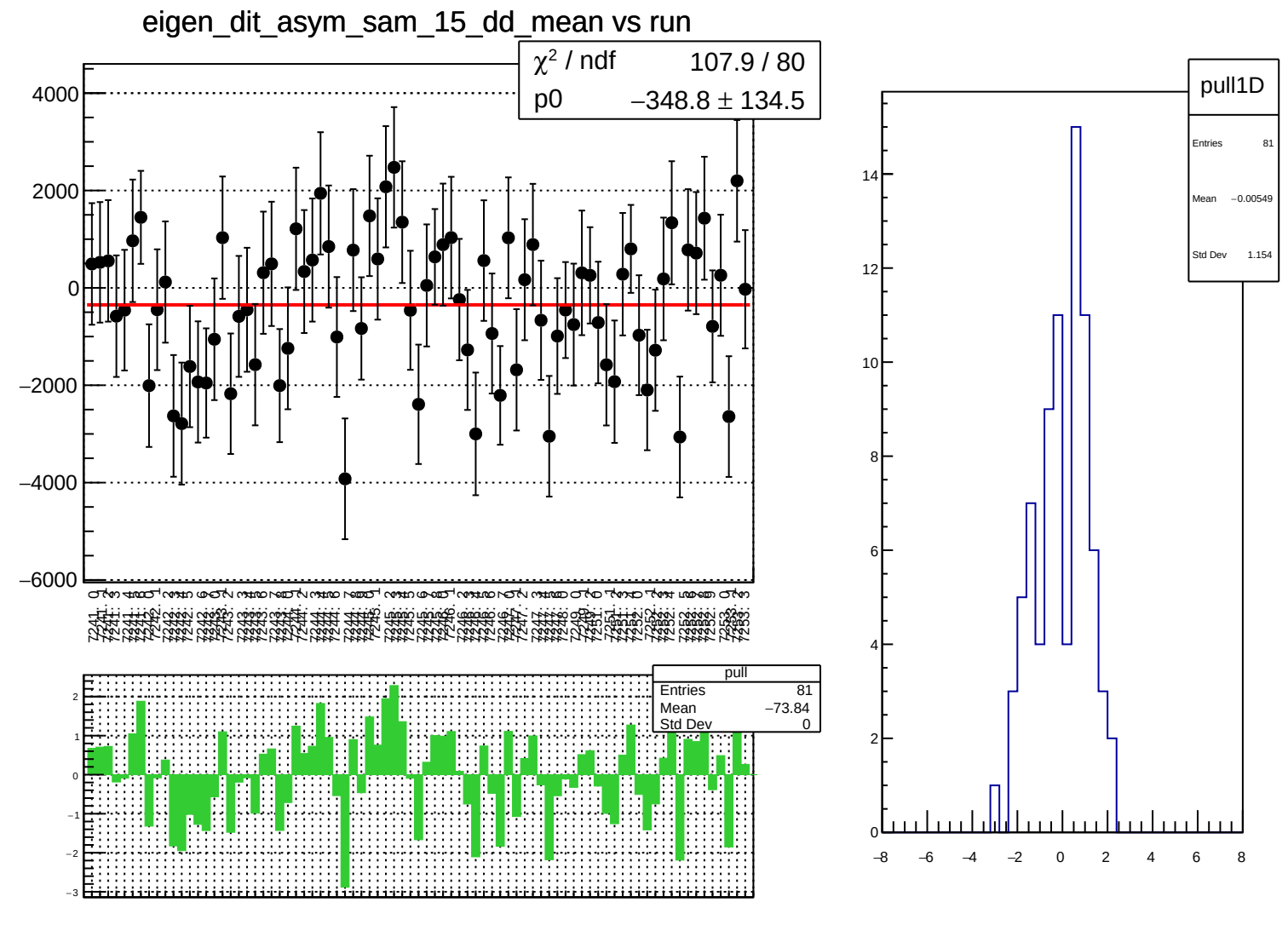

pull1D
Entries 81
Mean −0.00549
Std Dev 1.154

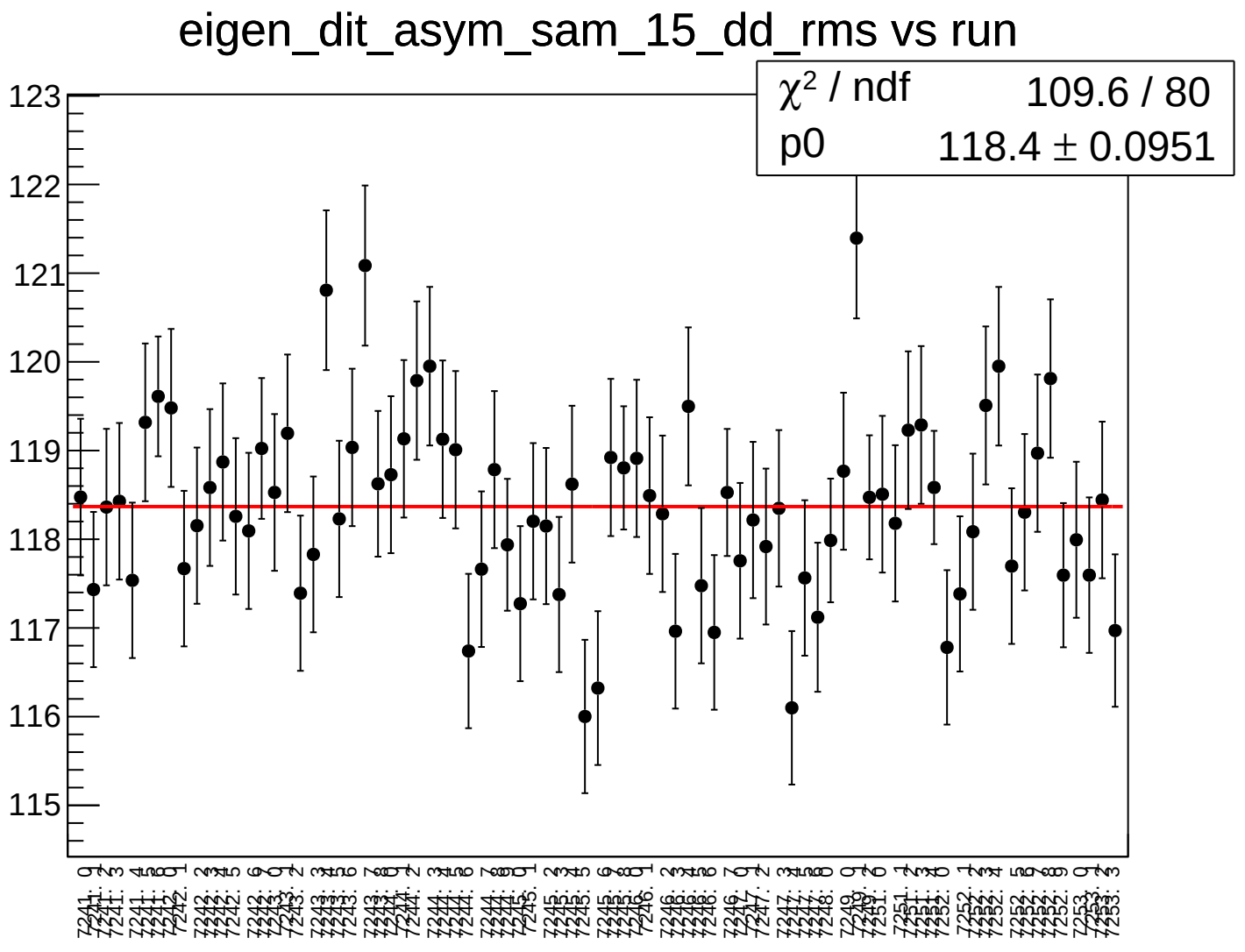

dit_asym_sam_15_dd_rms vs run
χ² / ndf 109.7 / 80
p0 118.4 ± 0.0951
123
122
121
120
119
118
117
116
115

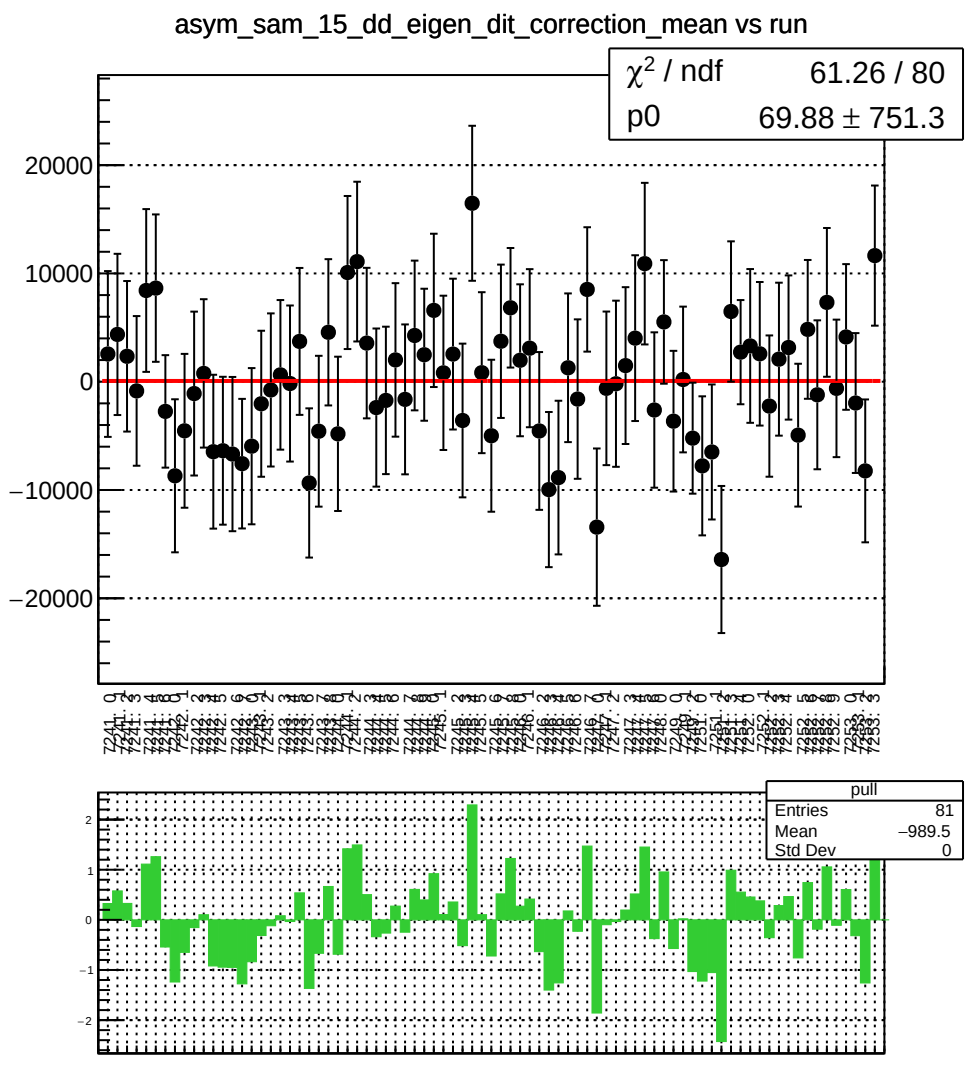

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 61.26 / 80
p0 69.87 ± 751.3
20000
10000
0
−10000
−20000
pull
Entries 81
Mean −989.5
Std Dev 0
2
1
0
−1
−2

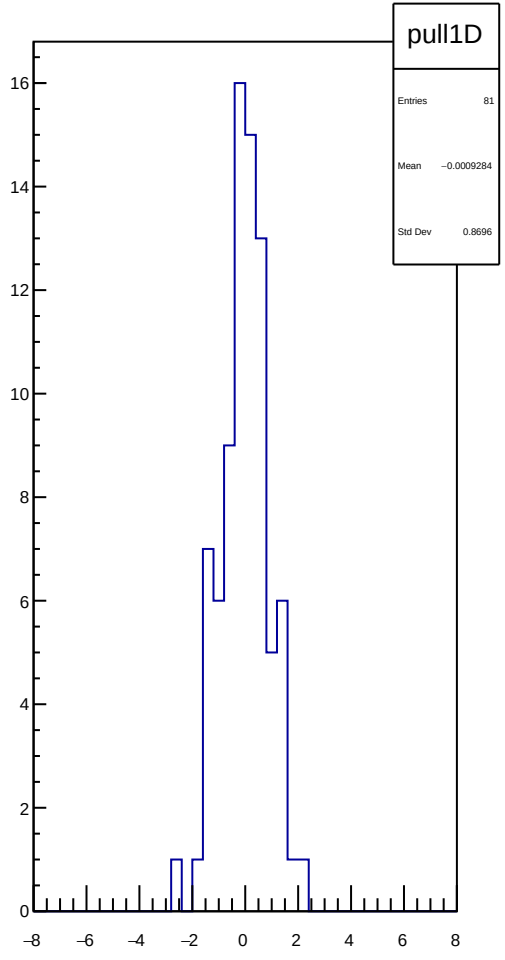

pull1D
Entries 81
Mean −0.0009283
Std Dev 0.8696
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

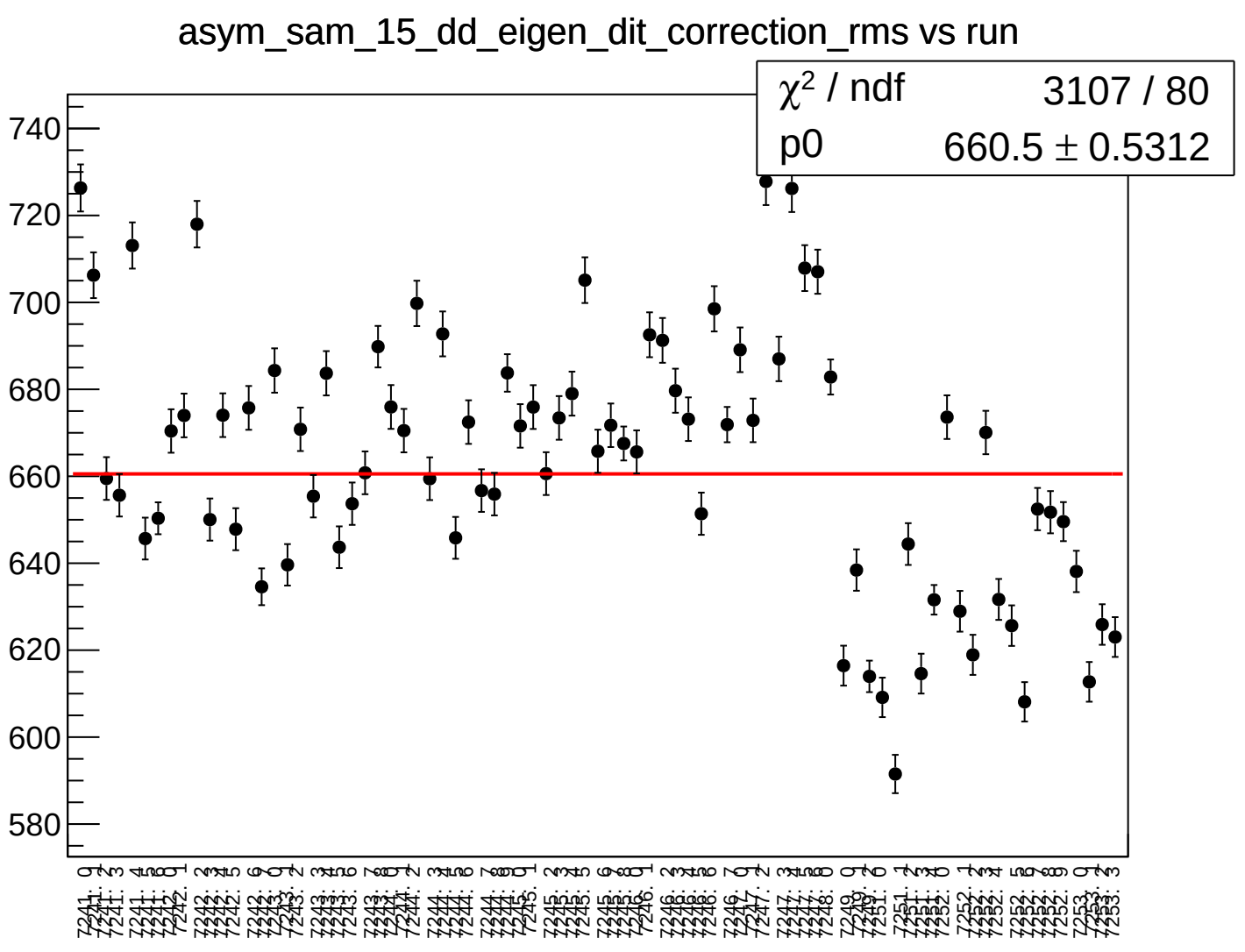

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 3107 / 80
p0 660.5 ± 0.5312
740
720
700
680
660
640
620
600
580

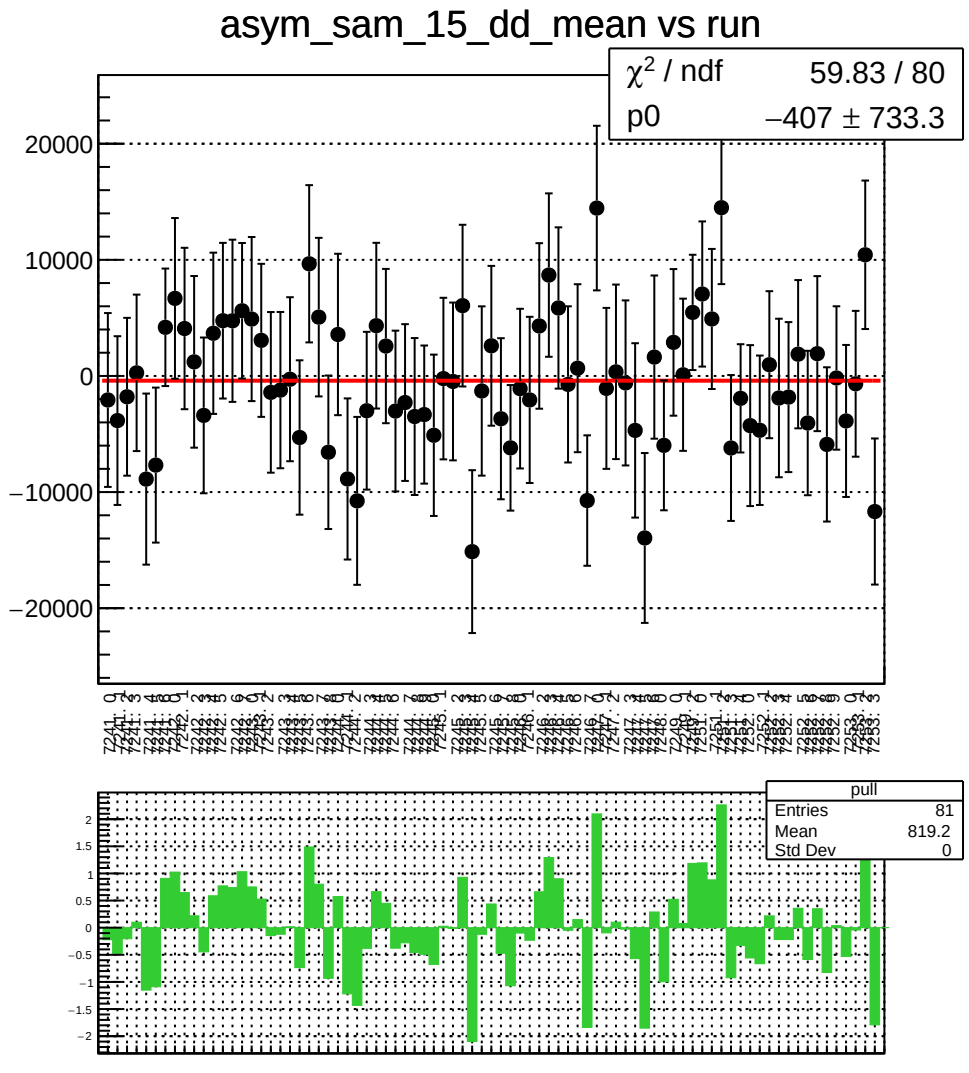

eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 107.9 / 80
p0 −348.8 ± 134.5
pull
Entries 81
Mean −73.84
Std Dev 0
pull1D
Entries 81
Mean −0.00549
Std Dev 1.154

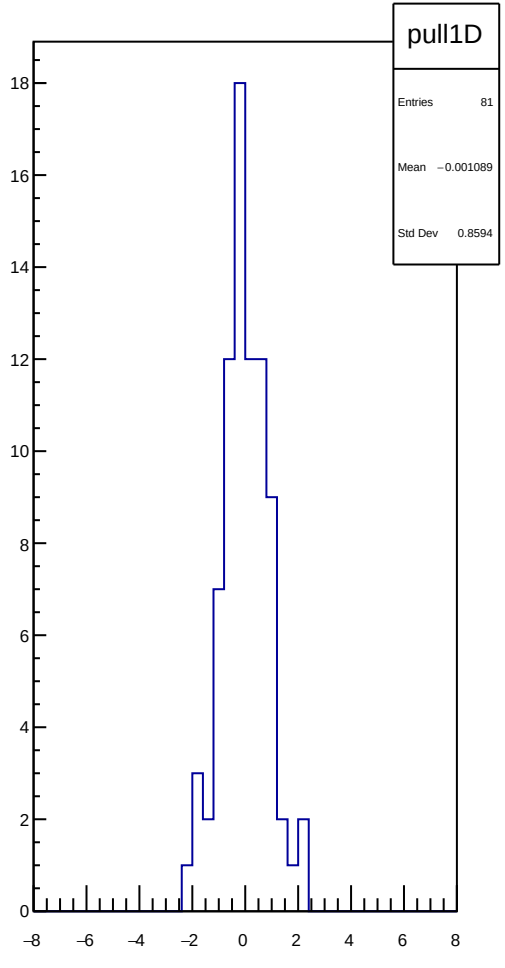

eigen_dit_asym_sam_15_dd_rms vs run
χ² / ndf 109.6 / 80
p0 118.4 ± 0.0951
123
122
121
120
119
118
117
116
115

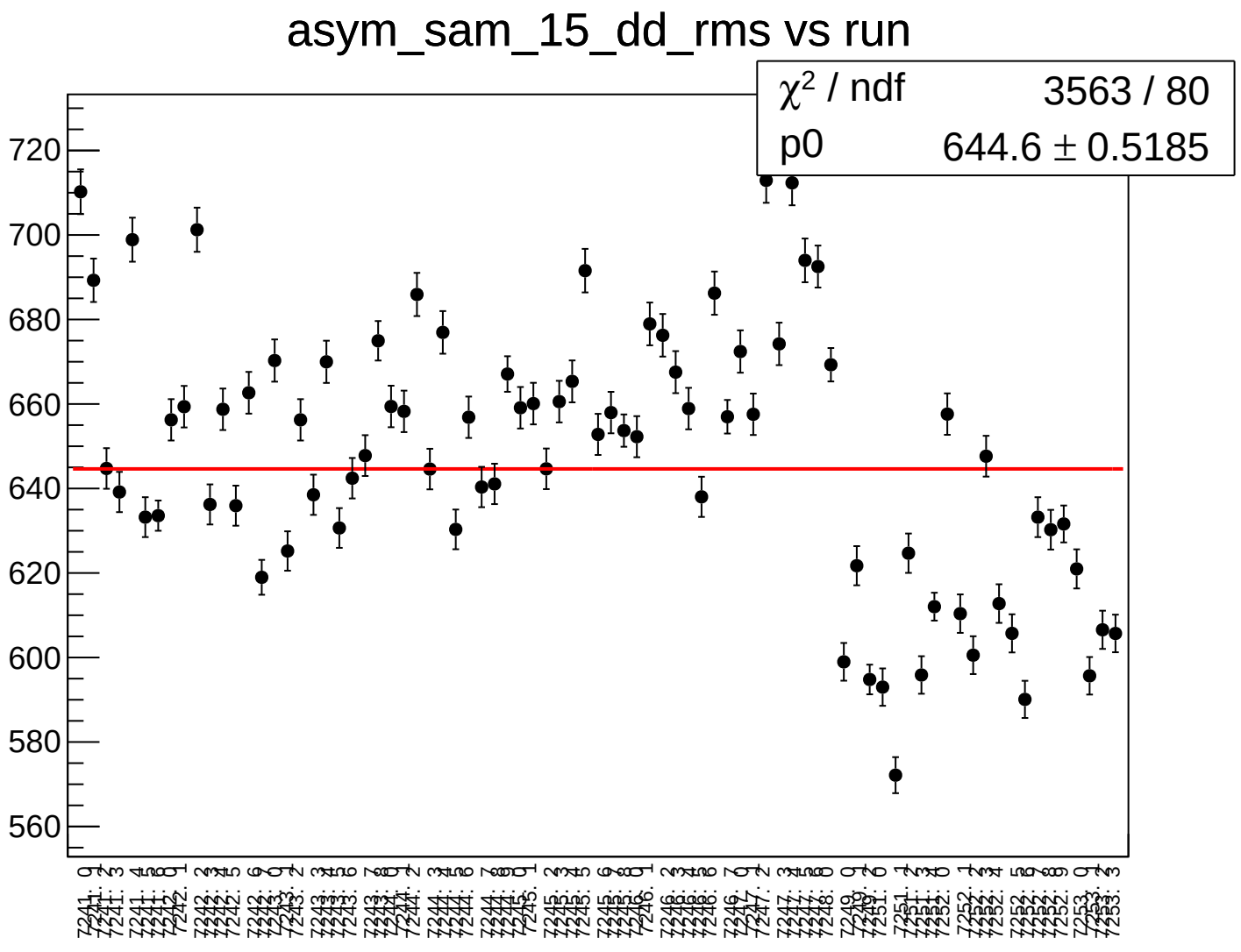

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 61.26 / 80
p0 69.88 ± 751.3
20000
10000
0
−10000
−20000
pull
Entries 81
Mean −989.5
Std Dev 0
2
1
0
−1
−2

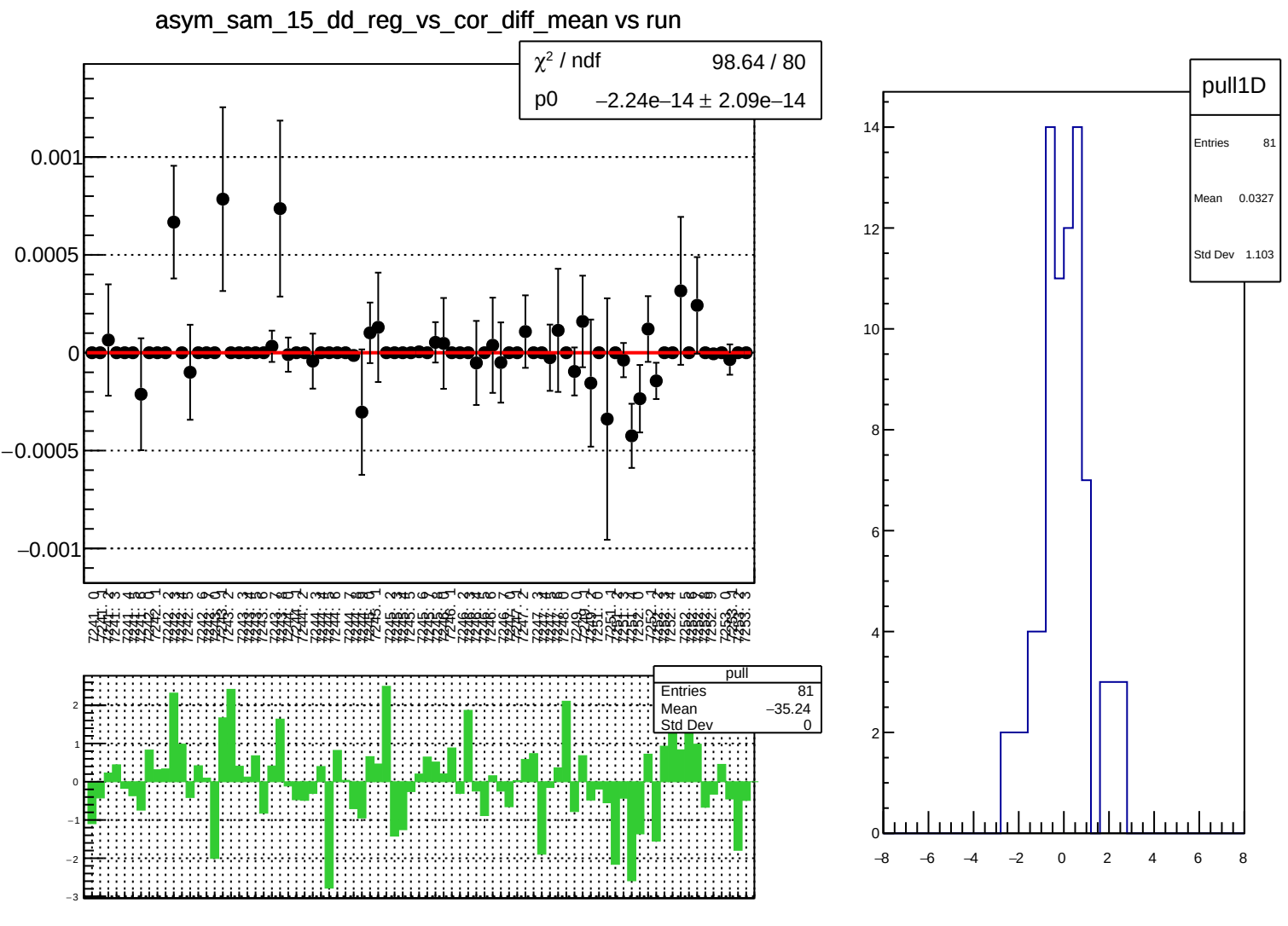

pull1D
Entries 81
Mean −0.0009284
Std Dev 0.8696
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

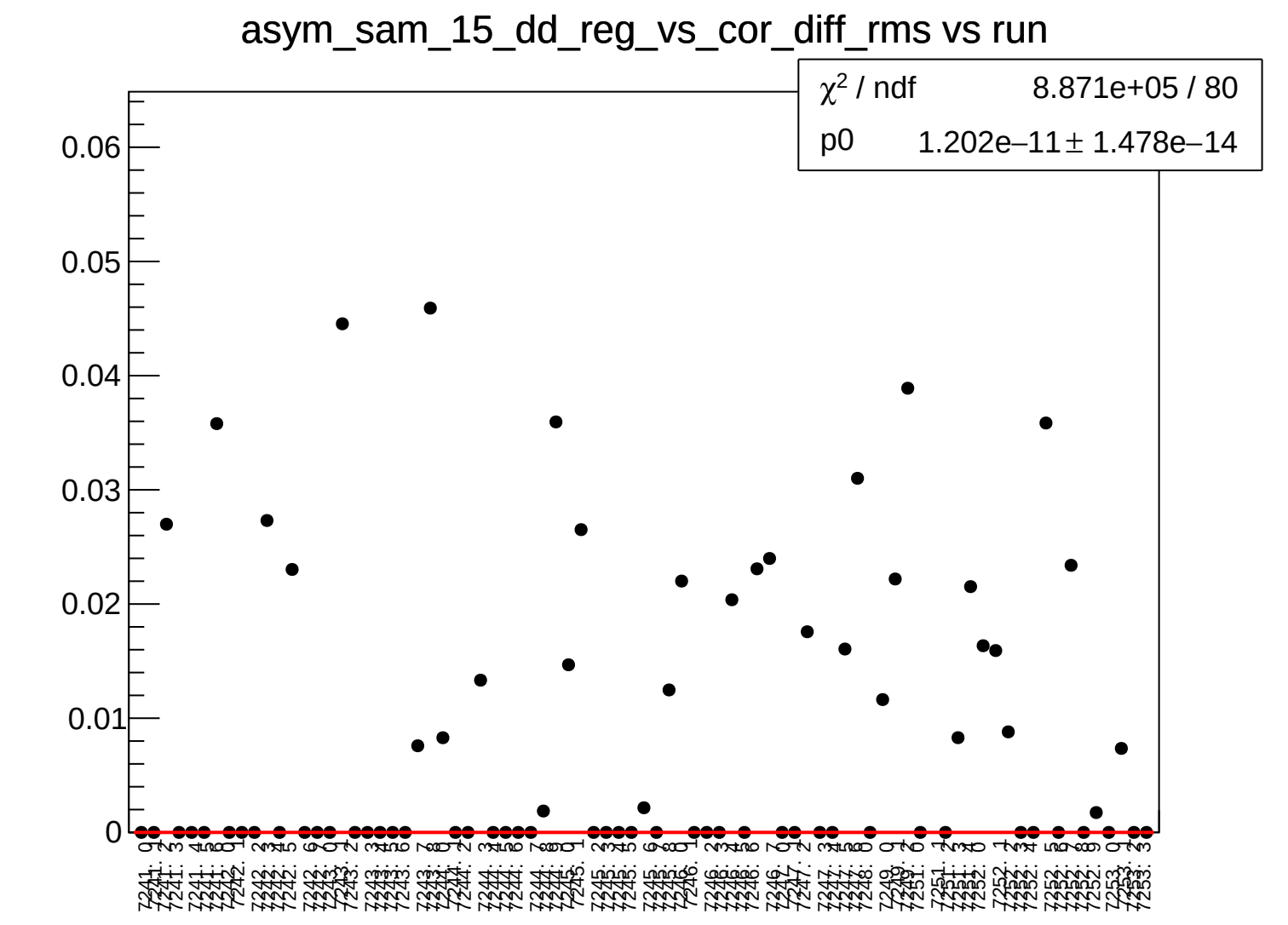

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 3107 / 80
p0 660.5 ± 0.5312
740
720
700
680
660
640
620
600
580

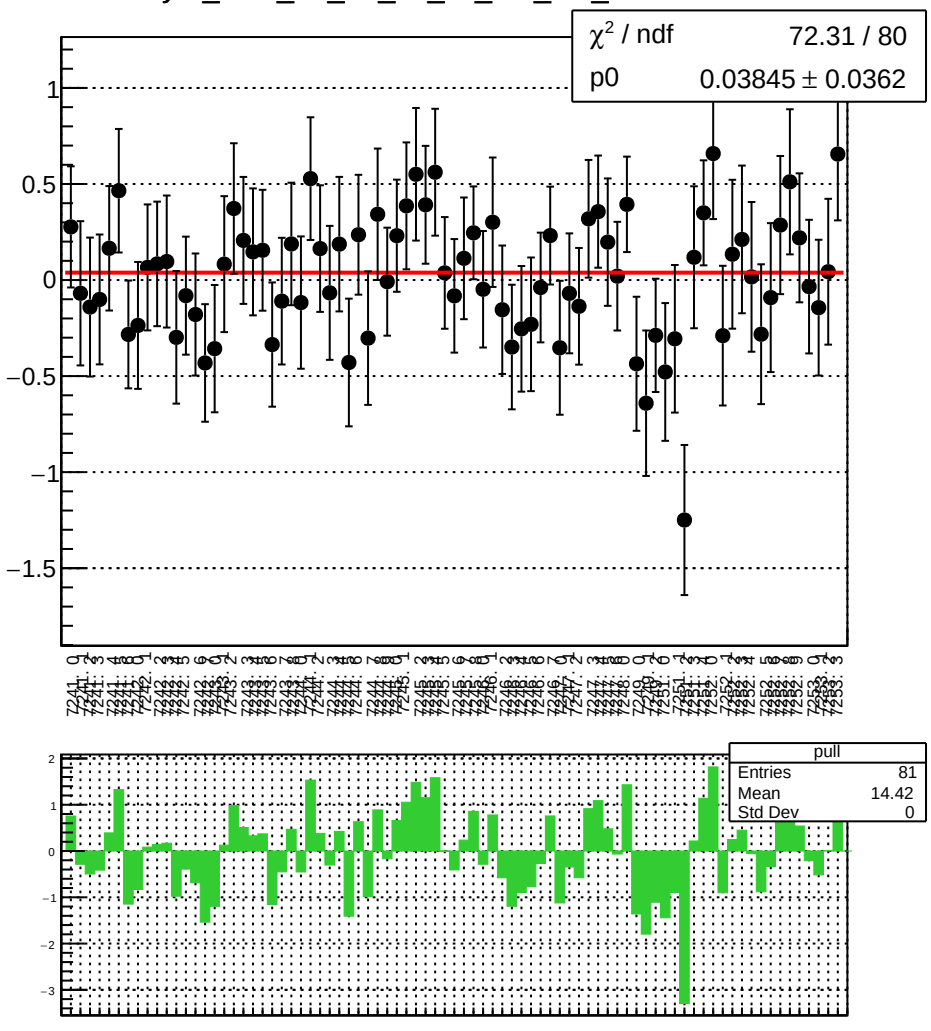

asym_sam_15_dd_mean vs run
χ² / ndf 59.83 / 80
p0 −407 ± 733.3
20000
10000
0
−10000
−20000
pull
Entries 81
Mean 819.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

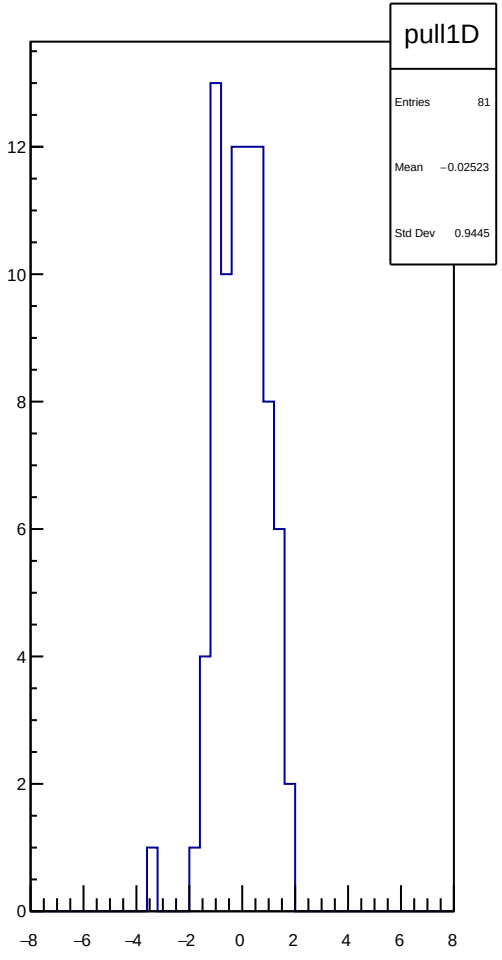

pull1D
Entries 81
Mean −0.001089
Std Dev 0.8594
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

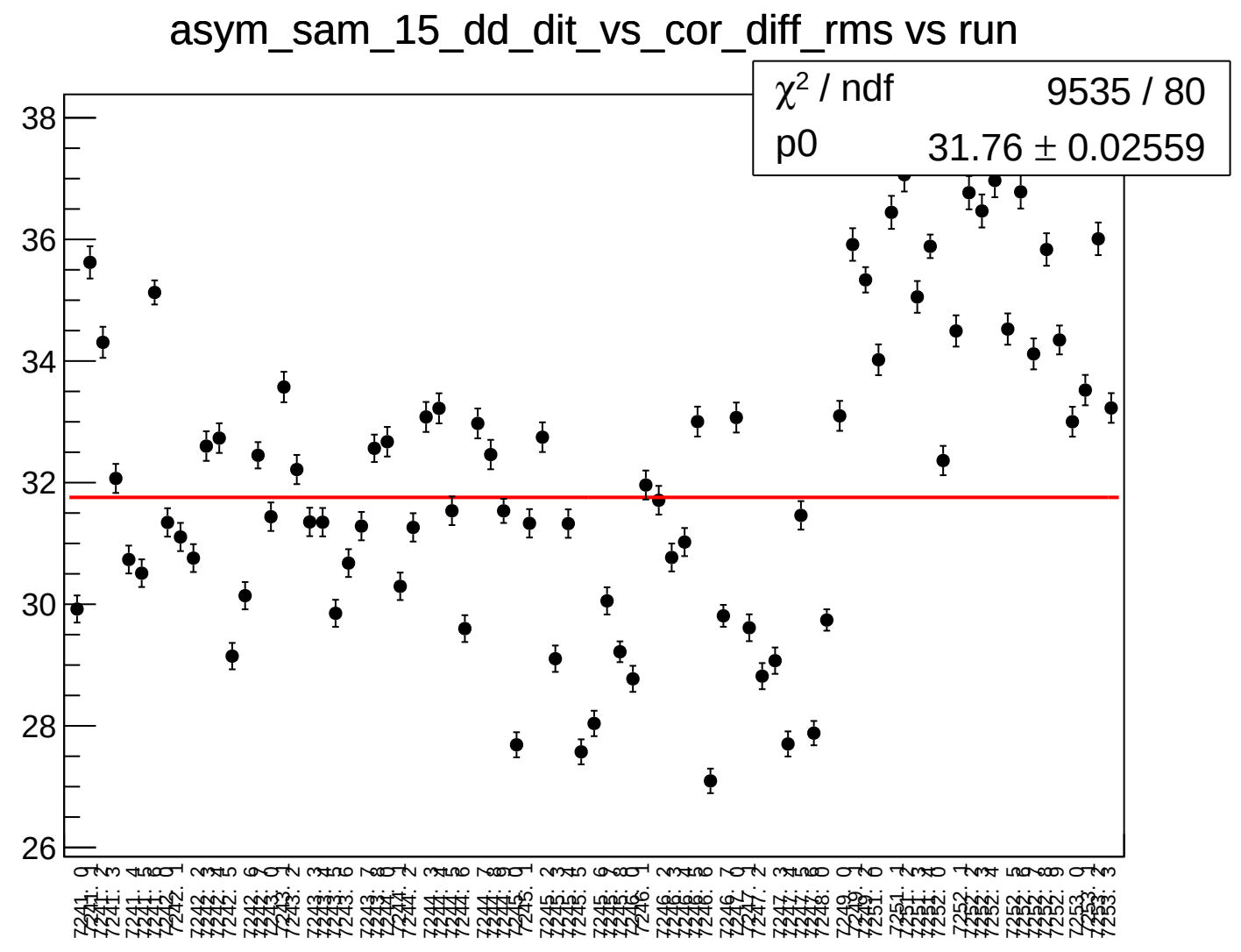

asym_sam_15_dd_rms vs run
χ² / ndf 3563 / 80
p0 644.6 ± 0.5185
720
700
680
660
640
620
600
580
560

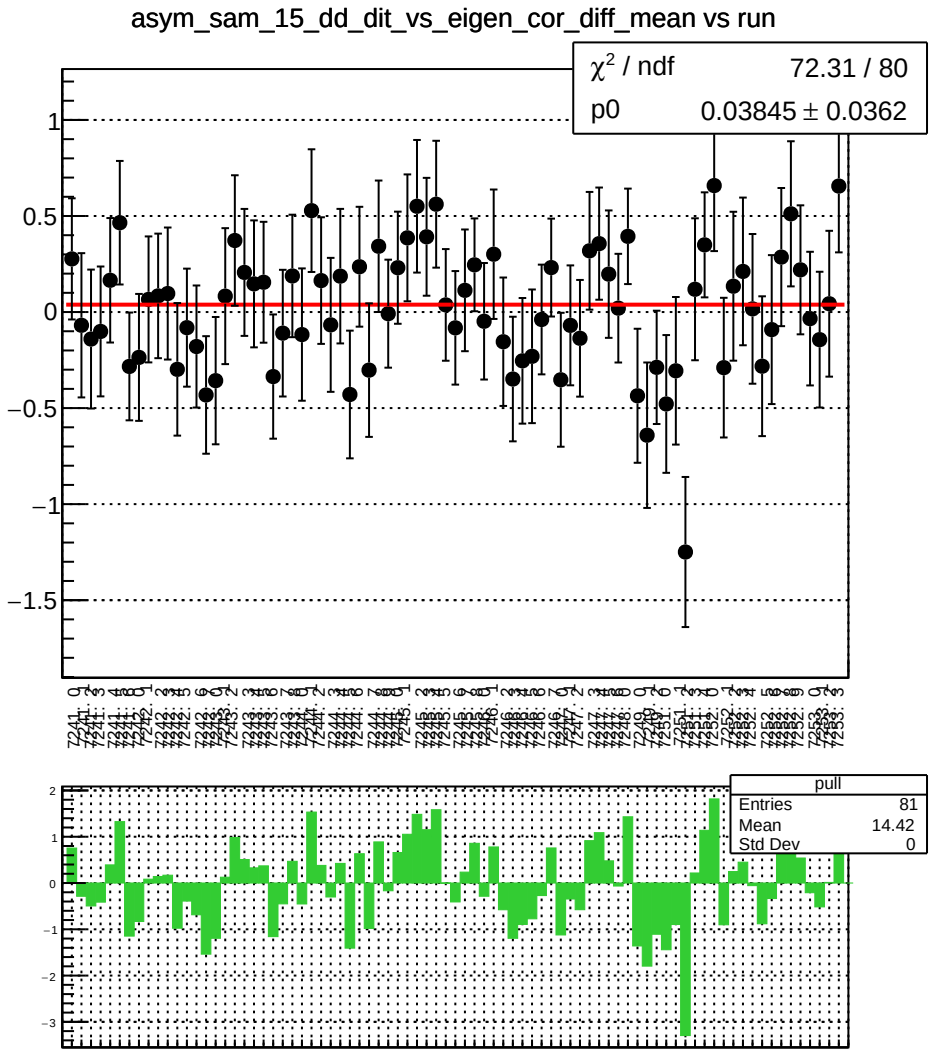

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 98.64 / 80
p0 −2.24e−14 ± 2.09e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 81
Mean −35.24
Std Dev 0
pull1D
Entries 81
Mean 0.0327
Std Dev 1.103

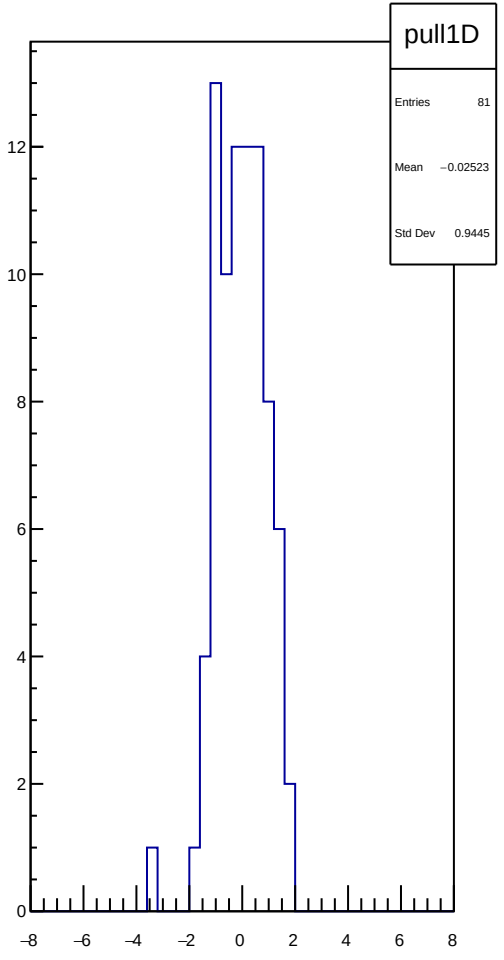

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.871e+05 / 80
p0 1.202e−11 ± 1.478e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

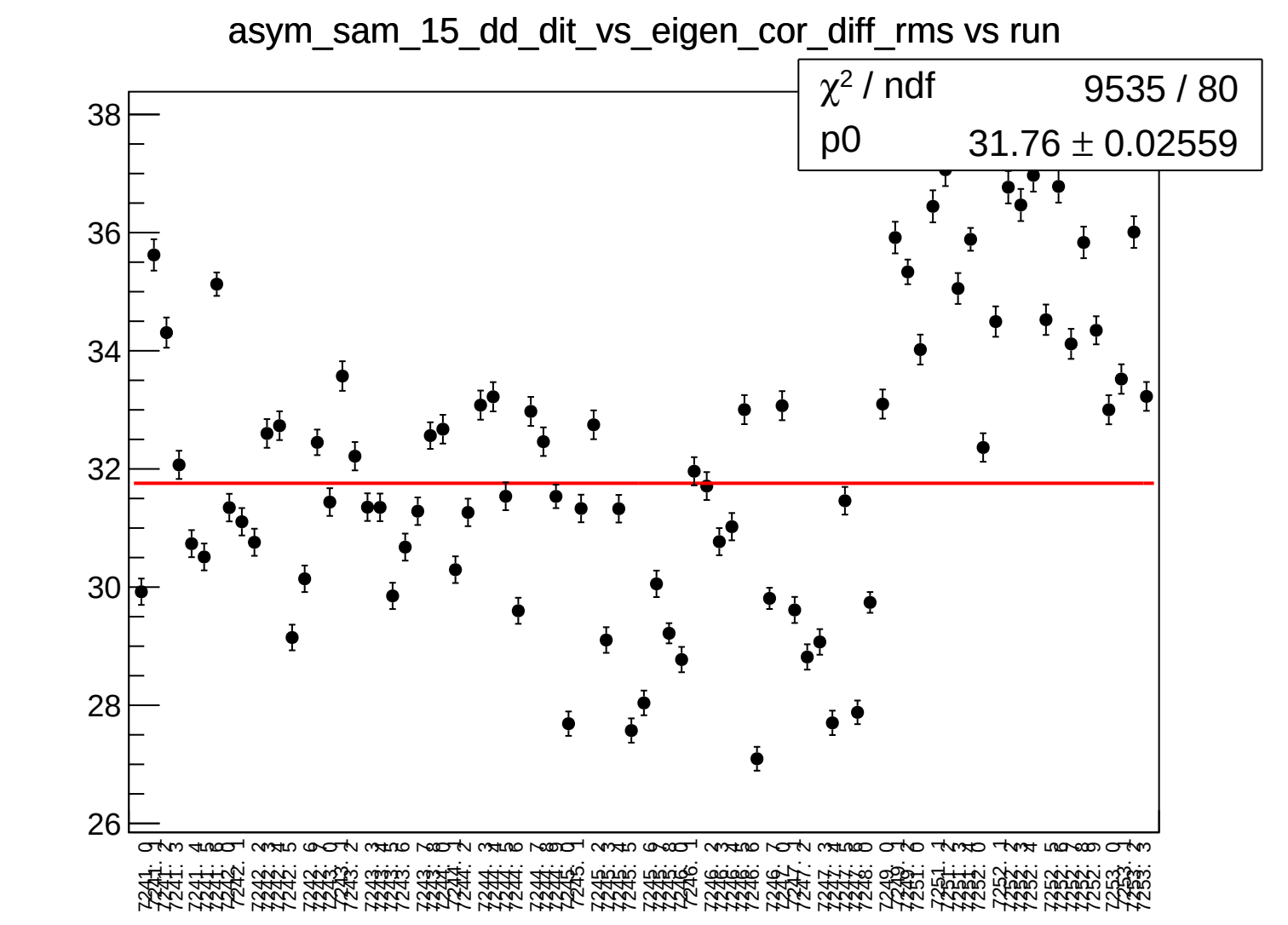

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 72.31 / 80
p0 0.03845 ± 0.0362
pull
Entries 81
Mean 14.42
Std Dev 0

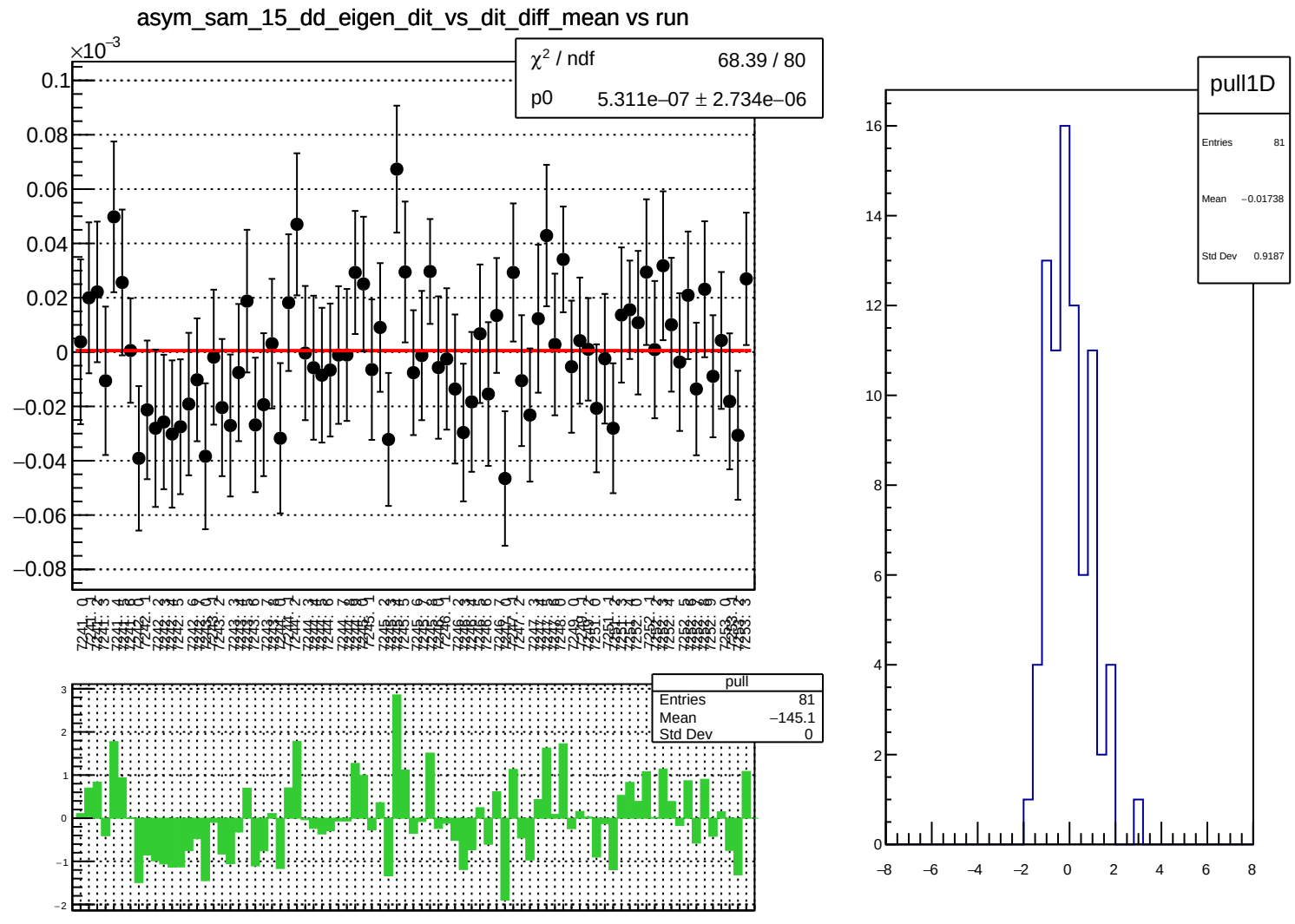

pull1D
Entries 81
Mean −0.02523
Std Dev 0.9445

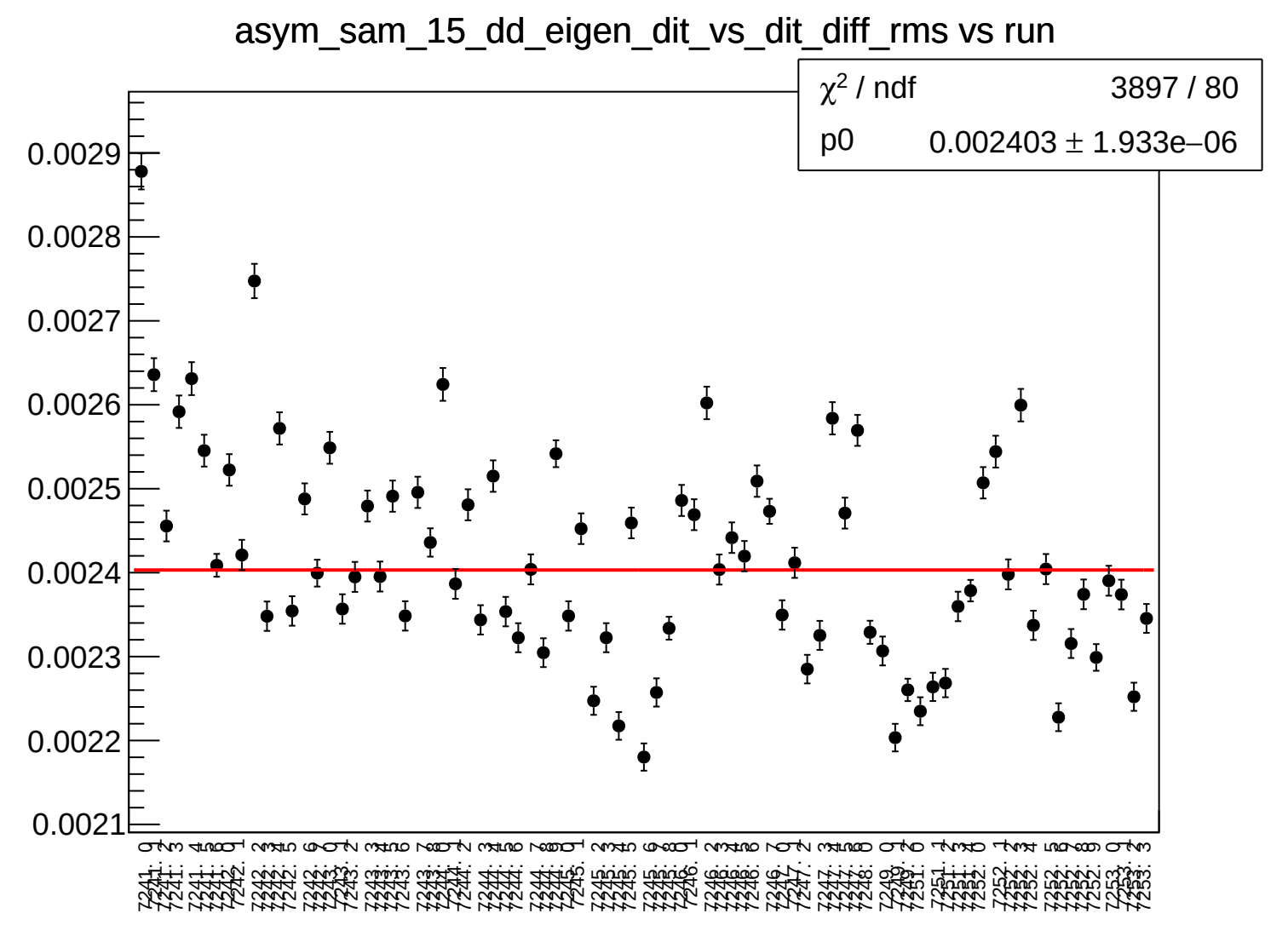

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9535 / 80
p0 31.76 ± 0.02559
38
36
34
32
30
28
26

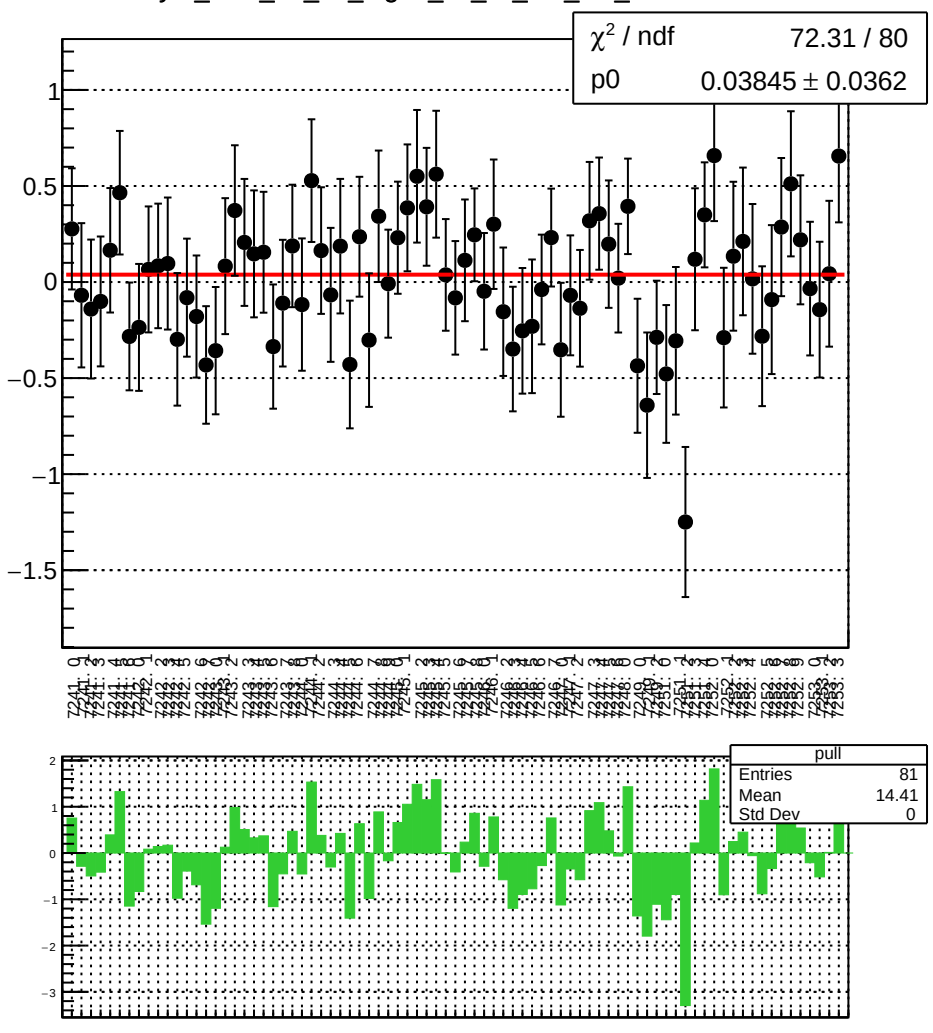

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.31 / 80
p0 0.03845 ± 0.0362
pull
Entries 81
Mean 14.42
Std Dev 0

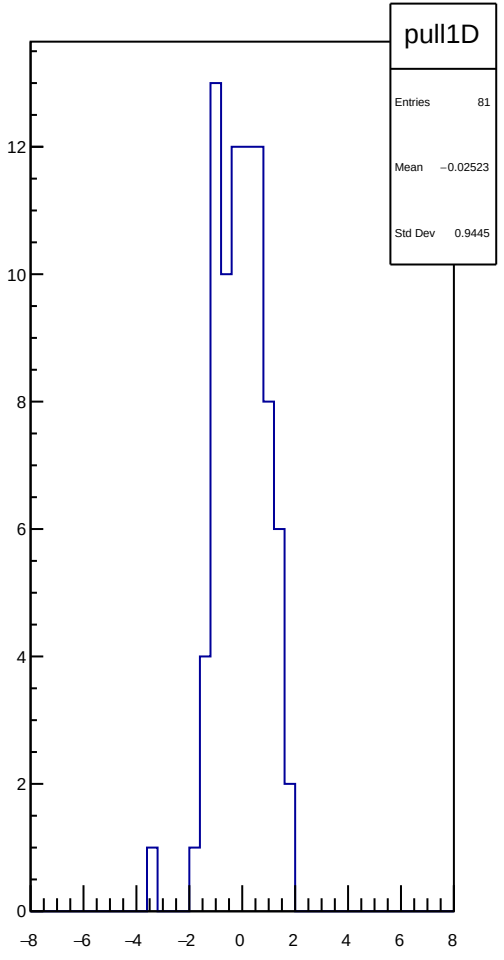

pull1D
Entries 81
Mean −0.02523
Std Dev 0.9445

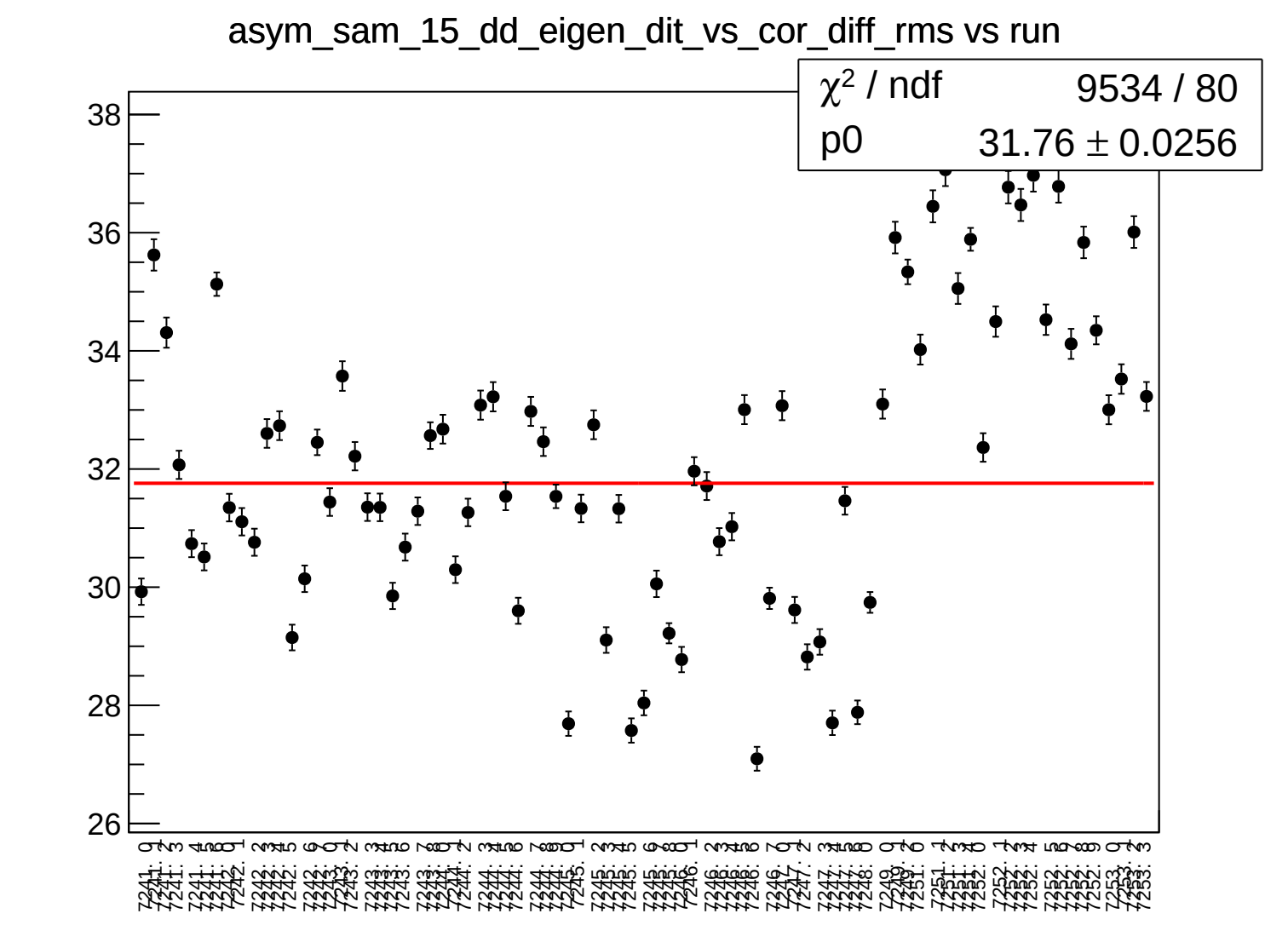

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9535 / 80
p0 31.76 ± 0.02559
38
36
34
32
30
28
26

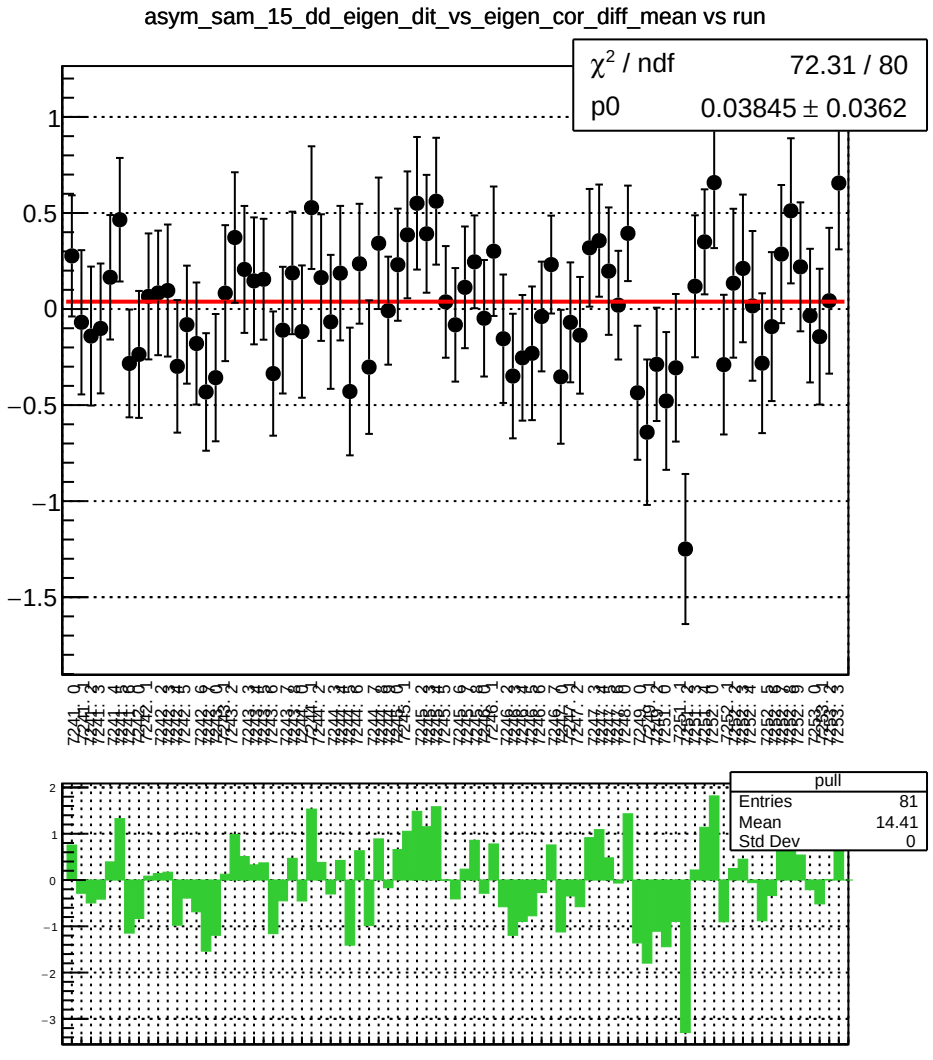

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 68.39 / 80
p0 5.311e−07 ± 2.734e−06
pull
Entries 81
Mean −145.1
Std Dev 0
pull1D
Entries 81
Mean −0.01738
Std Dev 0.9187

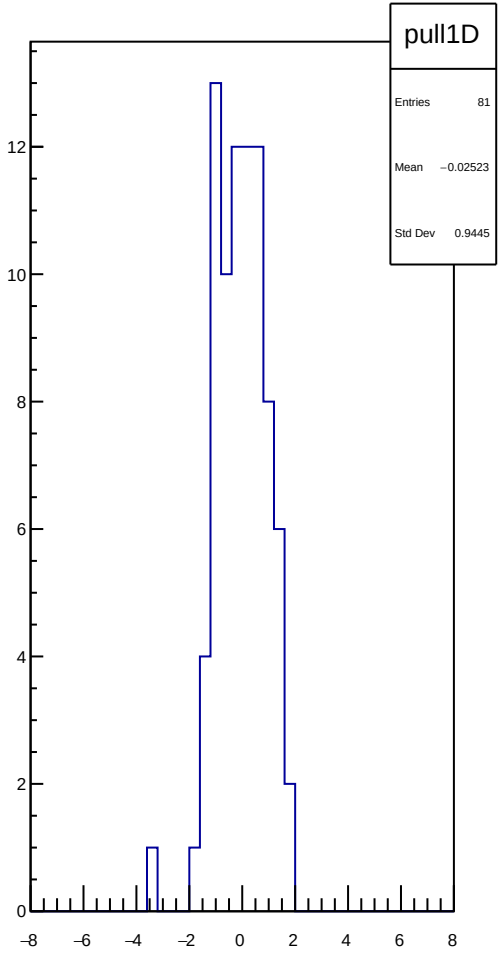

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3897 / 80
p0 0.002403 ± 1.933e−06
0.0029
0.0028
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021

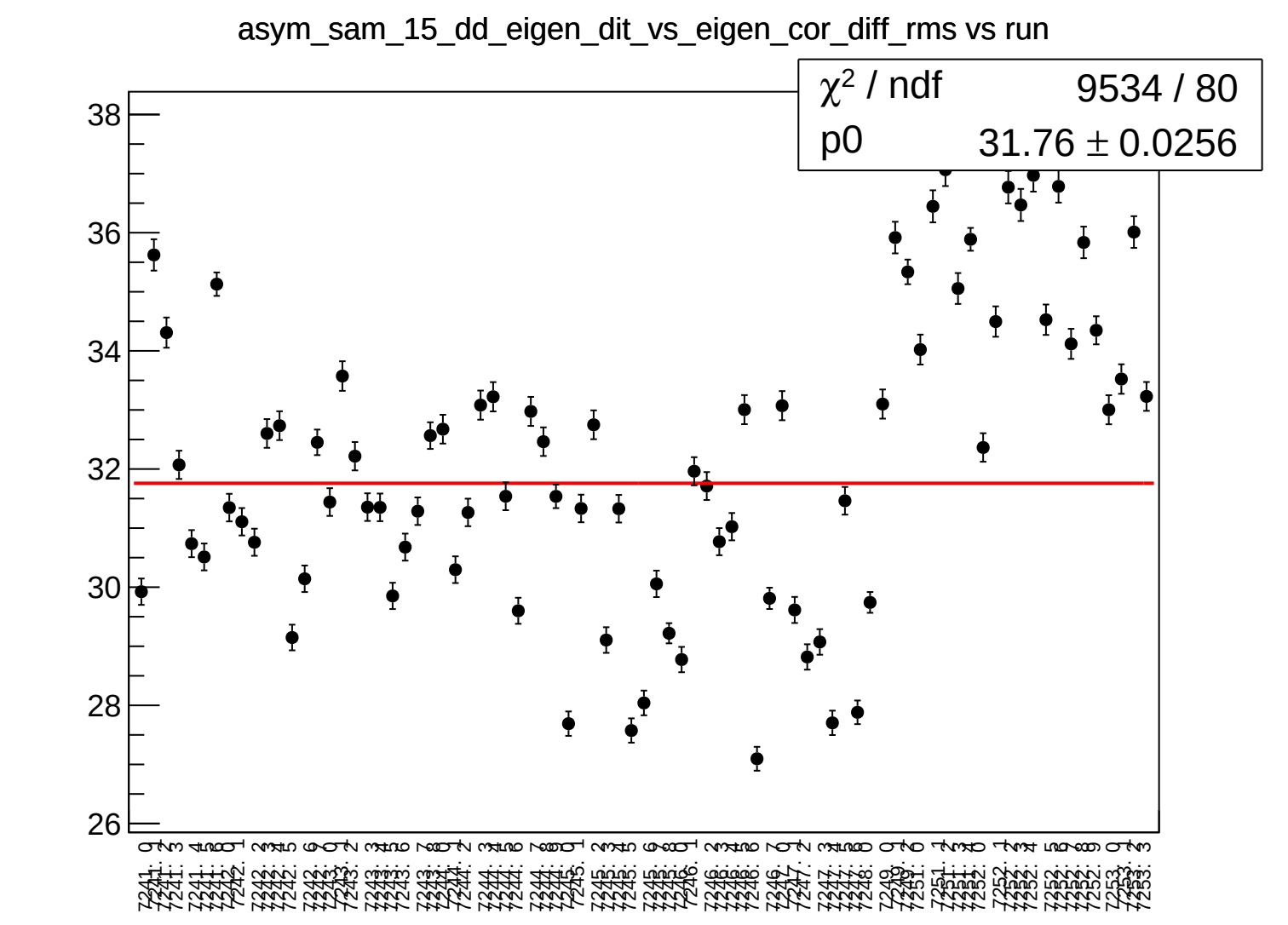

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.31 / 80
p0 0.03845 ± 0.0362
pull
Entries 81
Mean 14.41
Std Dev 0

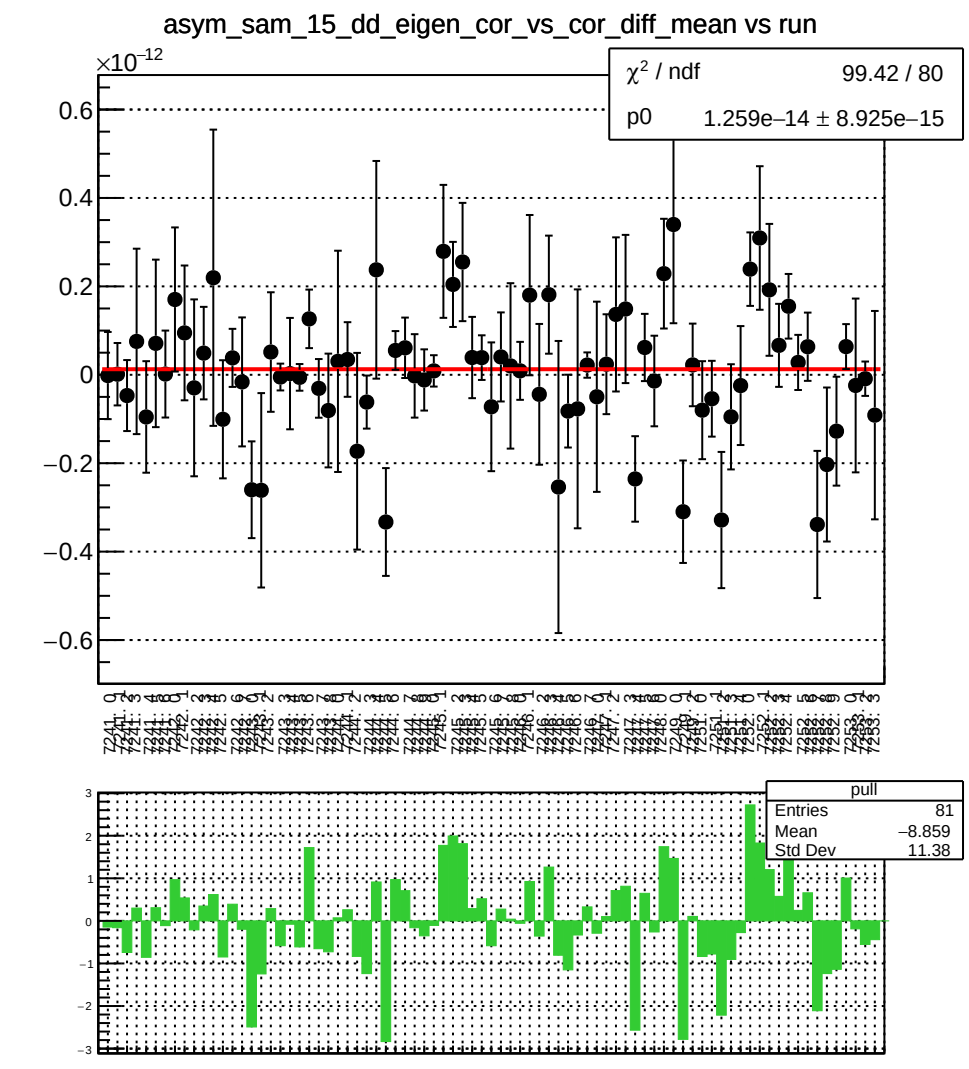

pull1D
Entries 81
Mean −0.02523
Std Dev 0.9445

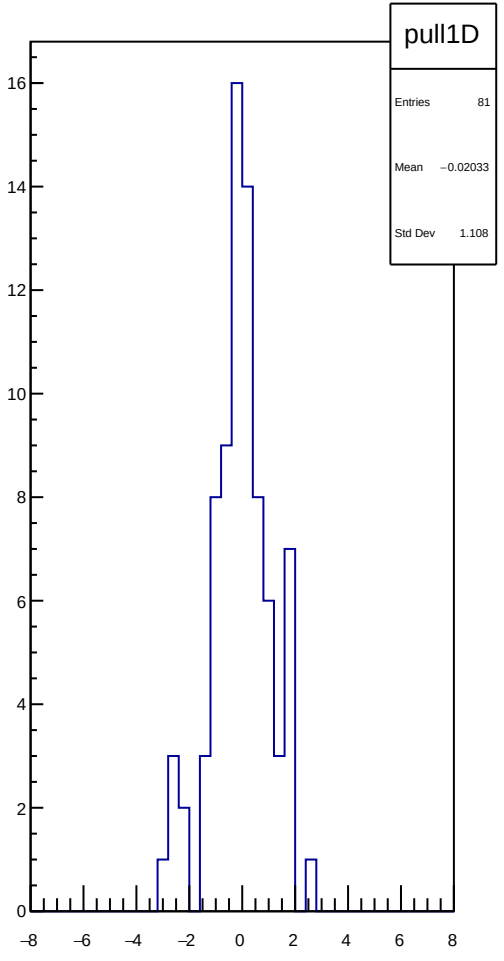

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9534 / 80
p0 31.76 ± 0.0256
38
36
34
32
30
28
26

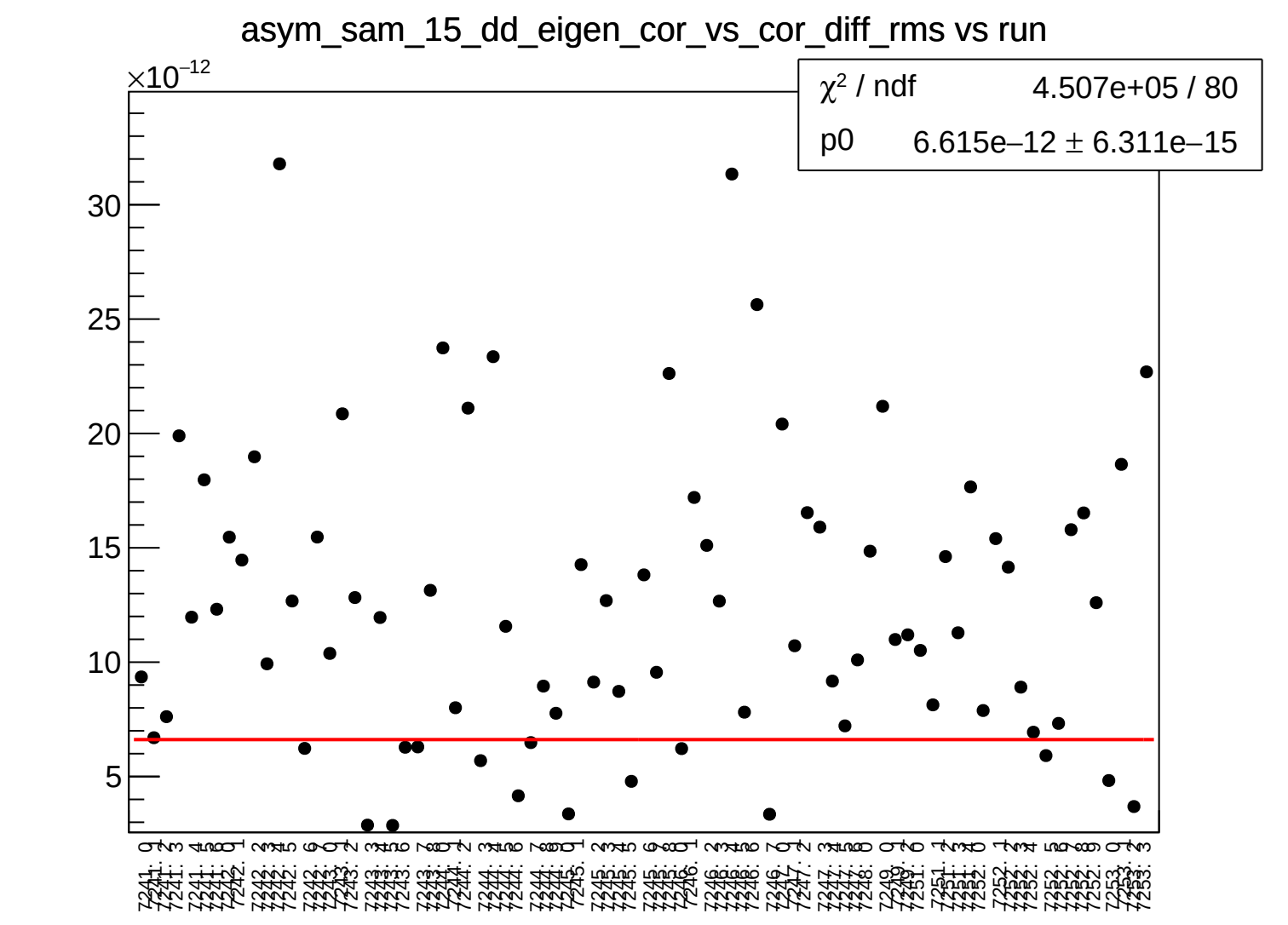

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.31 / 80
p0 0.03845 ± 0.0362
pull
Entries 81
Mean 14.41
Std Dev 0

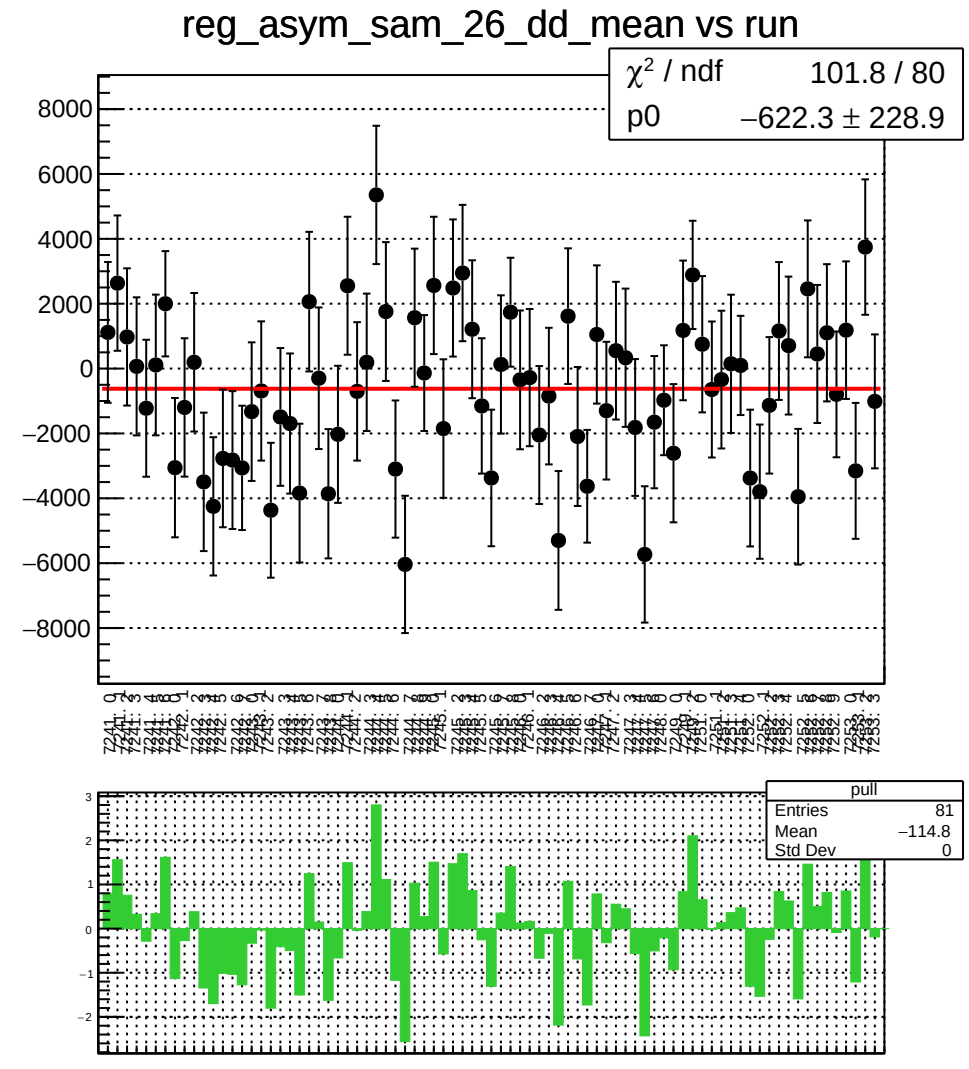

pull1D
Entries 81
Mean −0.02523
Std Dev 0.9445

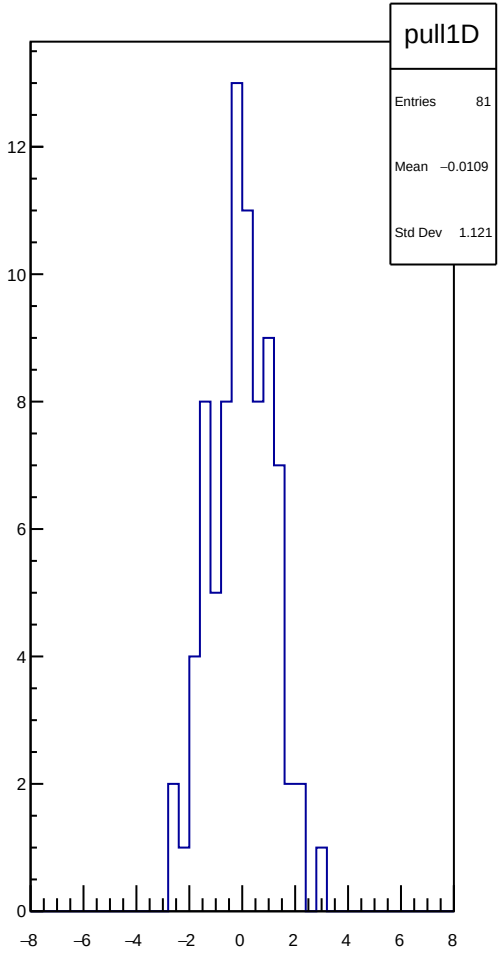

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9534 / 80
p0 31.76 ± 0.0256
38
36
34
32
30
28
26

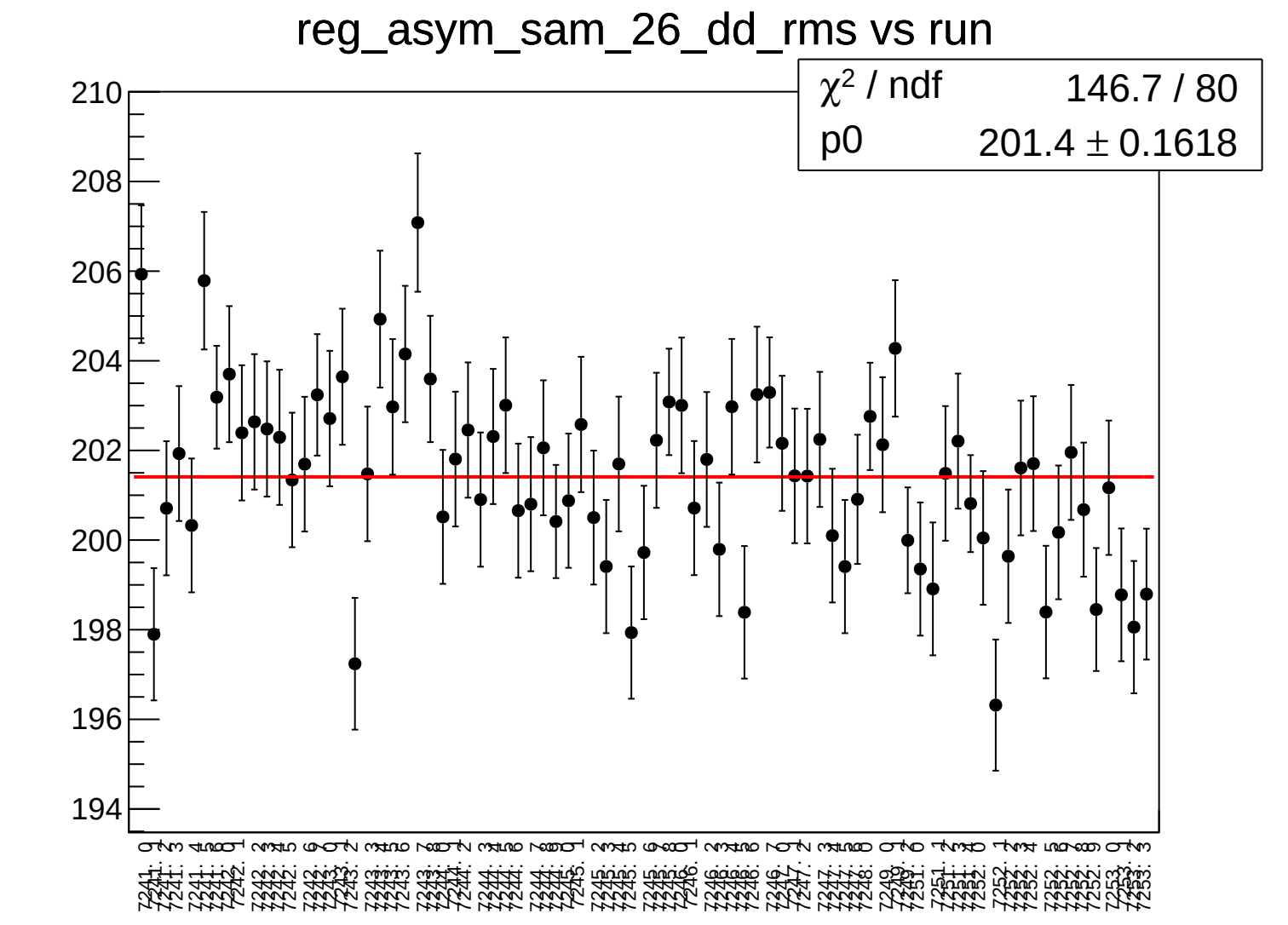

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.42 / 80
p0 1.259e−14 ± 8.925e−15
pull
Entries 81
Mean −8.859
Std Dev 11.38

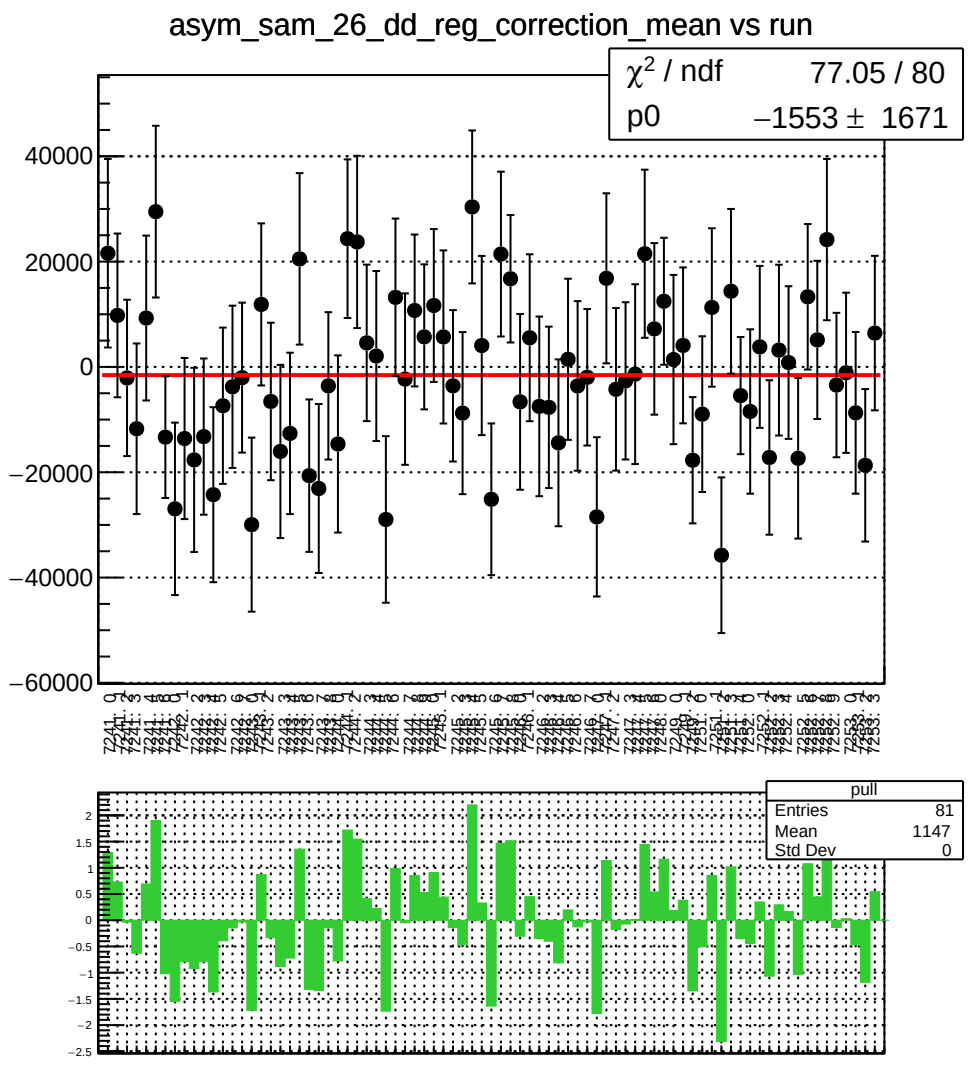

pull1D
Entries 81
Mean −0.02033
Std Dev 1.108

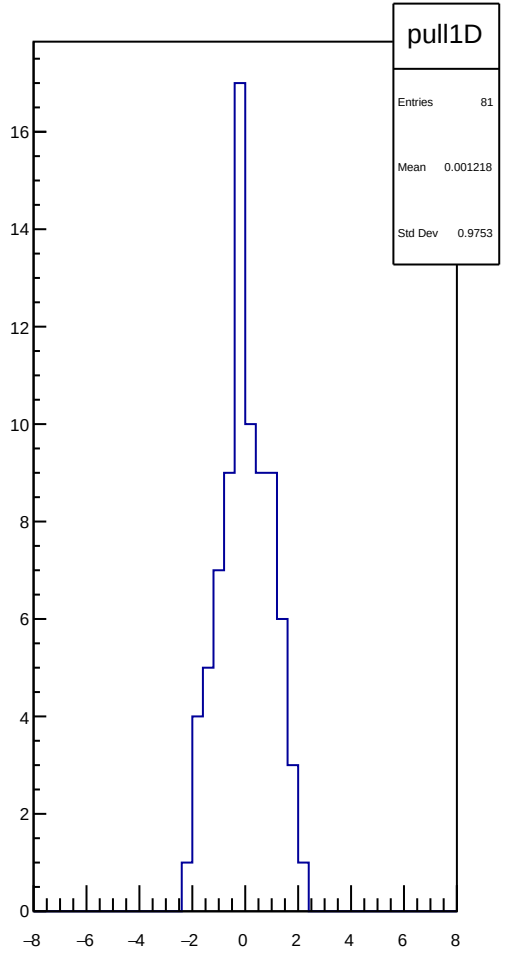

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.507e+05 / 80
p0 6.615e−12 ± 6.311e−15
30
25
20
15
10
5

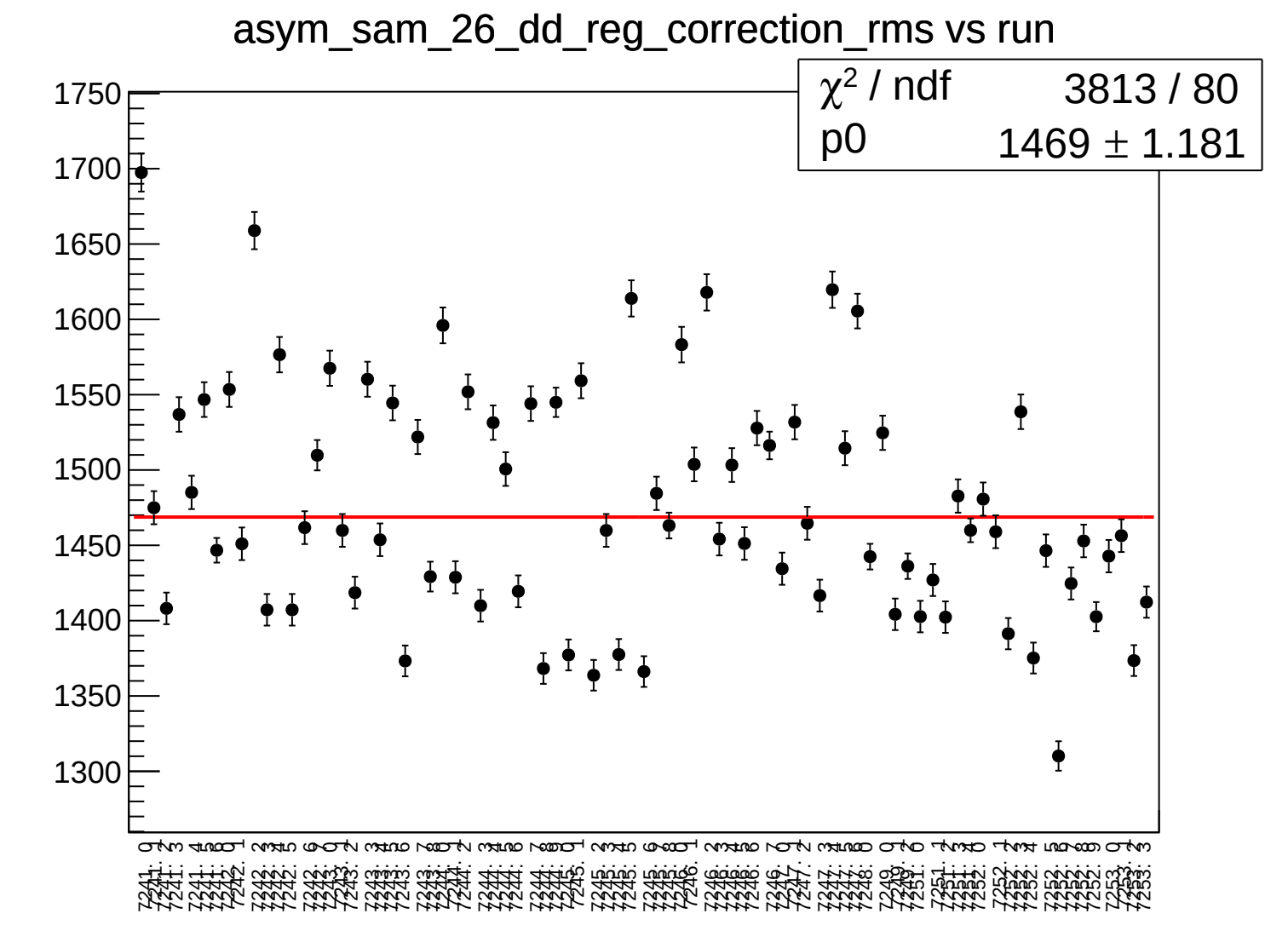

reg_asym_sam_26_dd_mean vs run
χ² / ndf 101.8 / 80
p0 −622.3 ± 228.9
pull
Entries 81
Mean −114.8
Std Dev 0

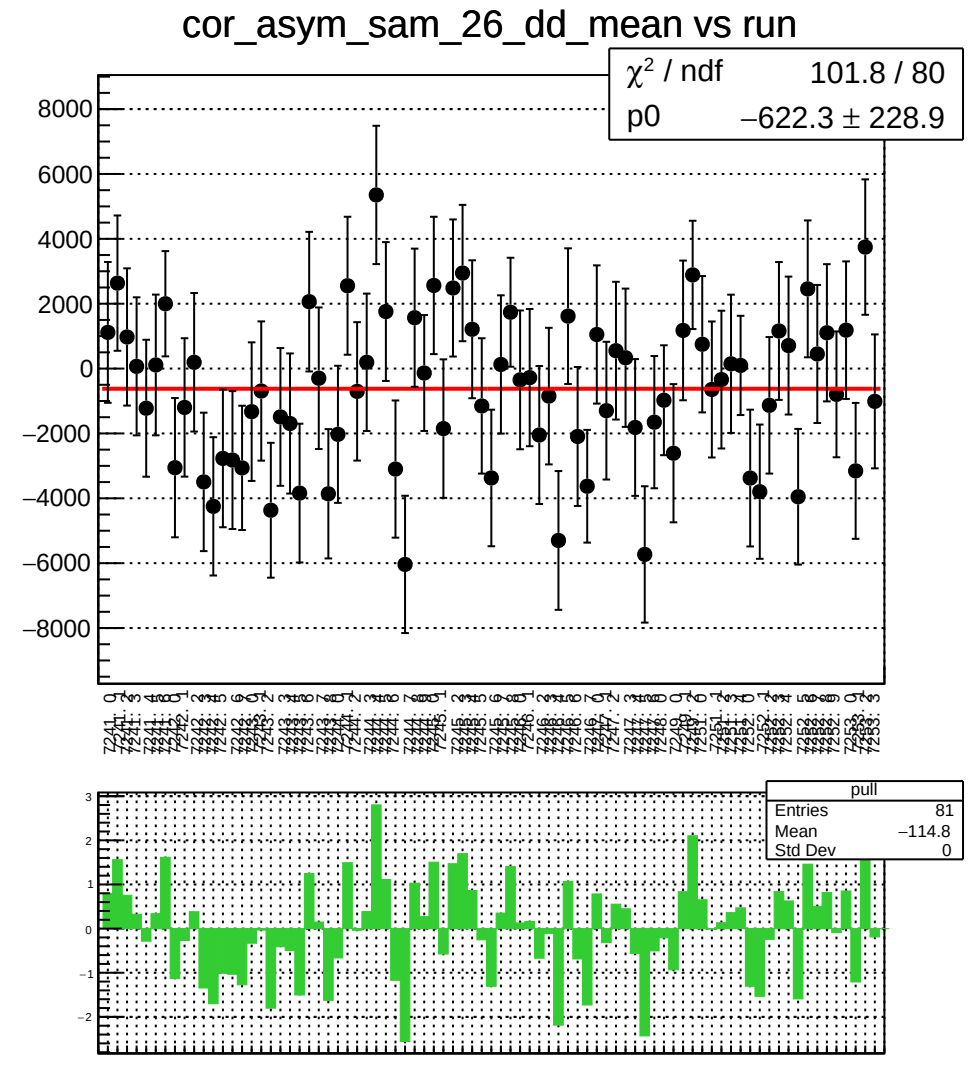

pull1D
Entries 81
Mean −0.0109
Std Dev 1.121

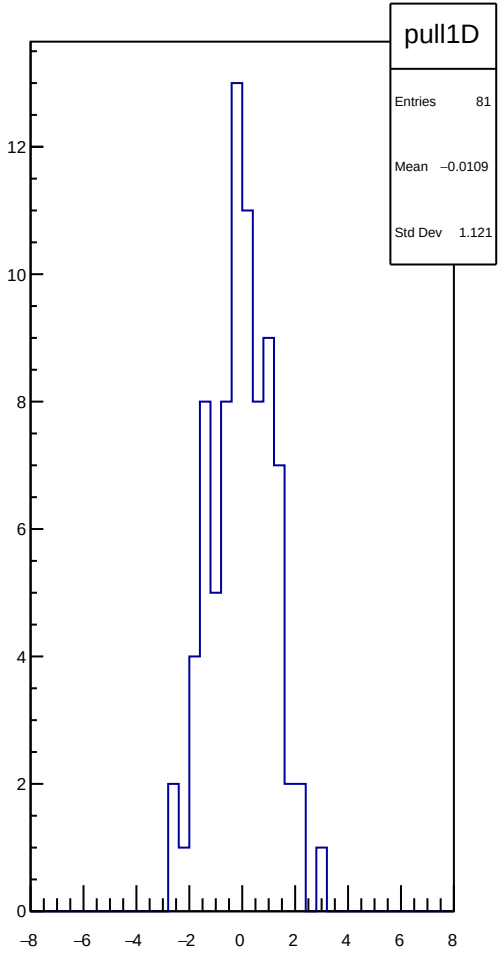

reg_asym_sam_26_dd_rms vs run
χ² / ndf 146.7 / 80
p0 201.4 ± 0.1618
210
208
206
204
202
200
198
196
194

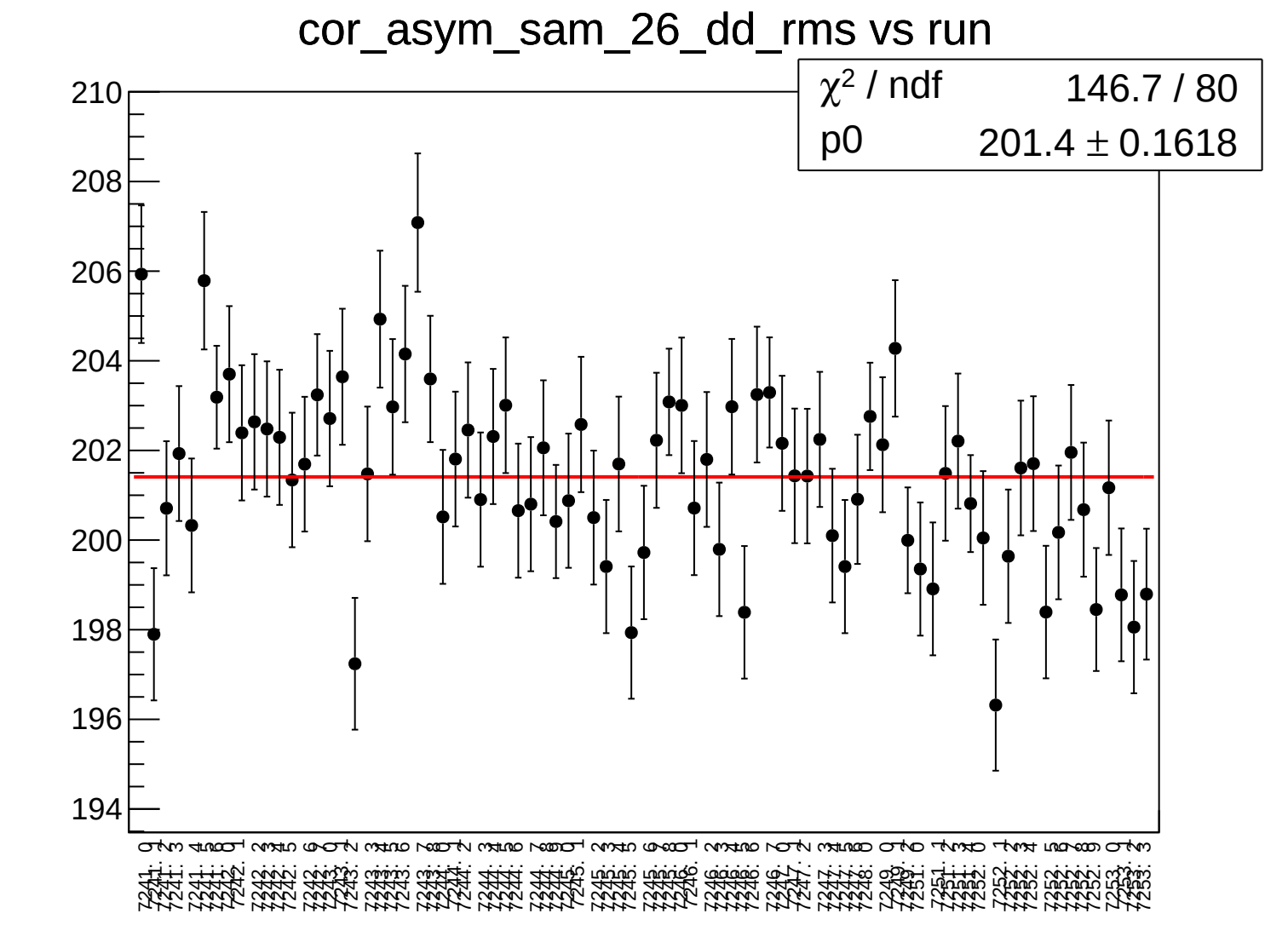

asym_sam_26_dd_reg_correction_mean vs run
χ² / ndf 77.05 / 80
p0 −1553 ± 1671
pull
Entries 81
Mean 1147
Std Dev 0

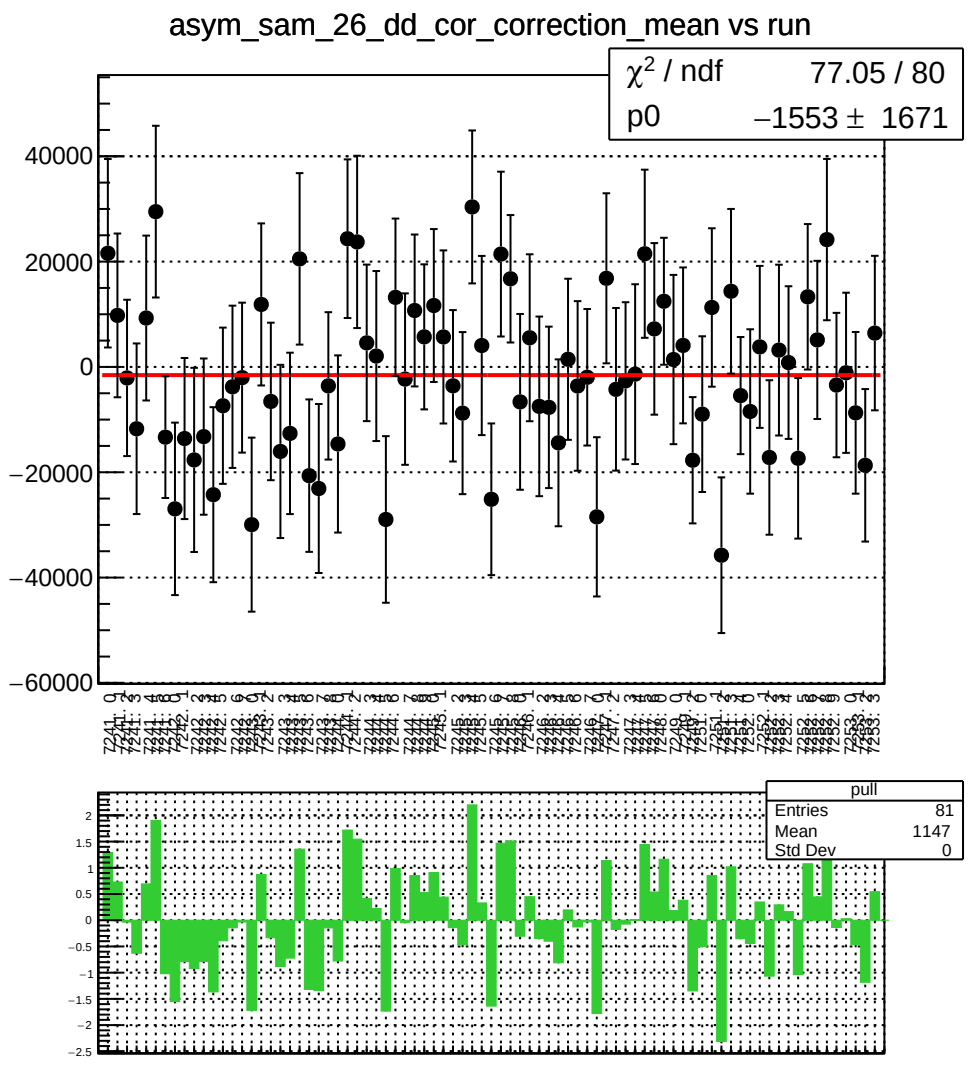

pull1D
Entries 81
Mean 0.001218
Std Dev 0.9753

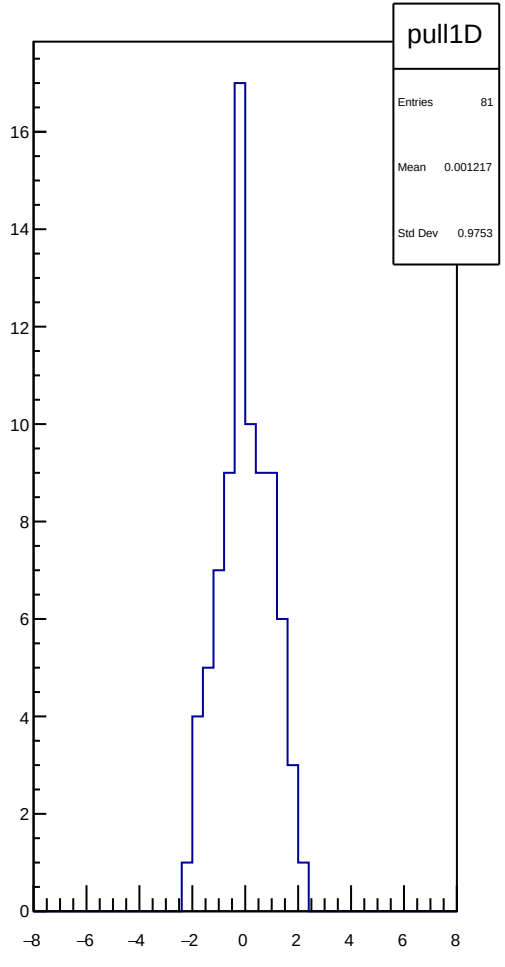

asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 3813 / 80
p0 1469 ± 1.181
1750
1700
1650
1600
1550
1500
1450
1400
1350
1300

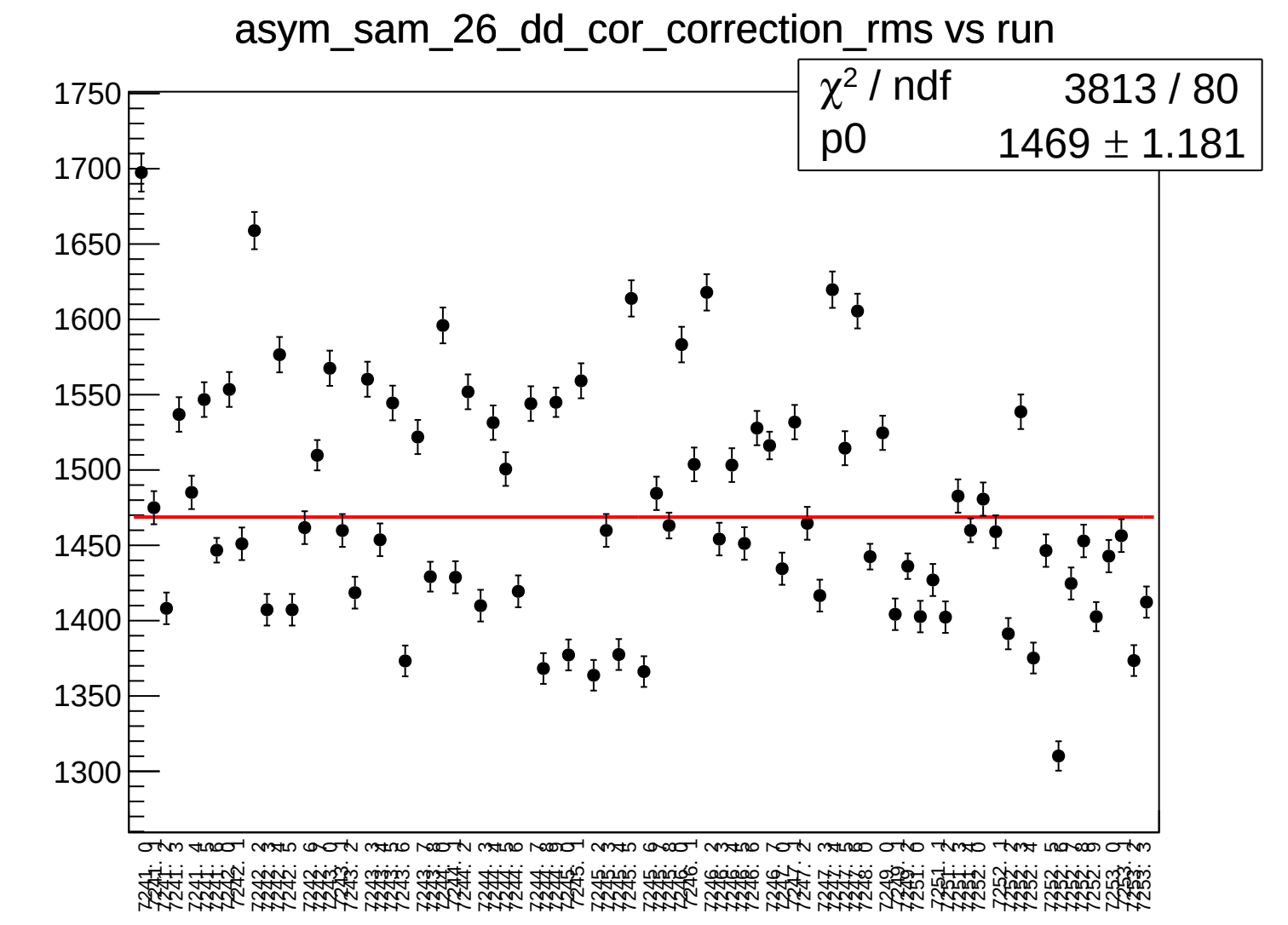

cor_asym_sam_26_dd_mean vs run
χ² / ndf 101.8 / 80
p0 −622.3 ± 228.9
pull
Entries 81
Mean −114.8
Std Dev 0

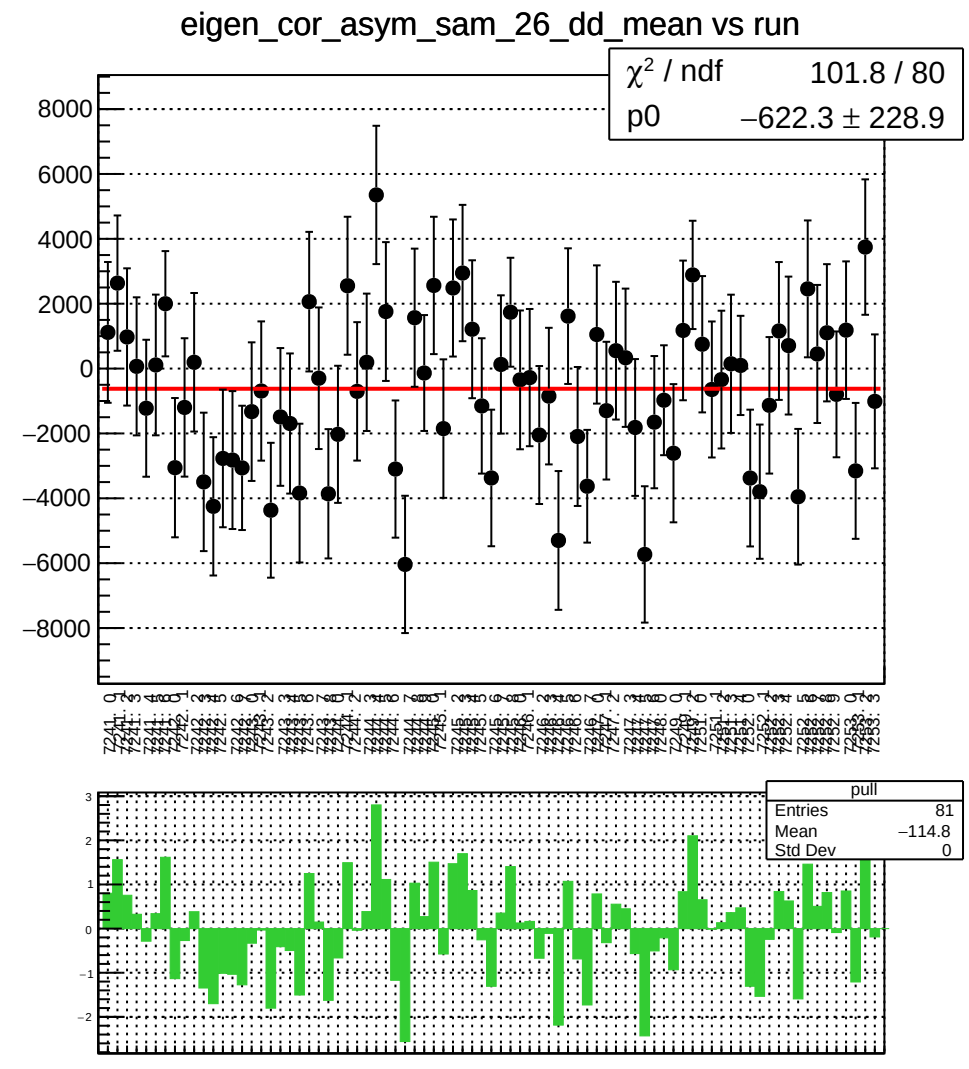

pull1D
Entries 81
Mean −0.0109
Std Dev 1.121

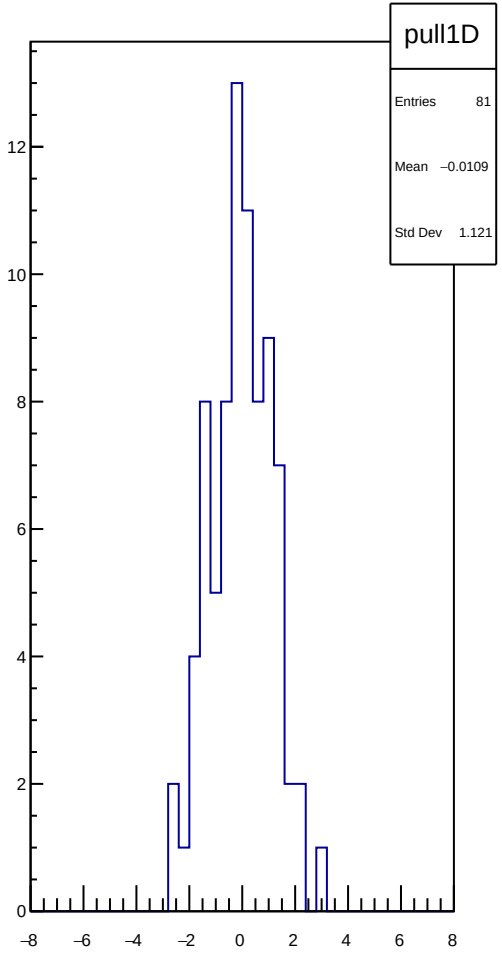

cor_asym_sam_26_dd_rms vs run
χ² / ndf 146.7 / 80
p0 201.4 ± 0.1618
210
208
206
204
202
200
198
196
194

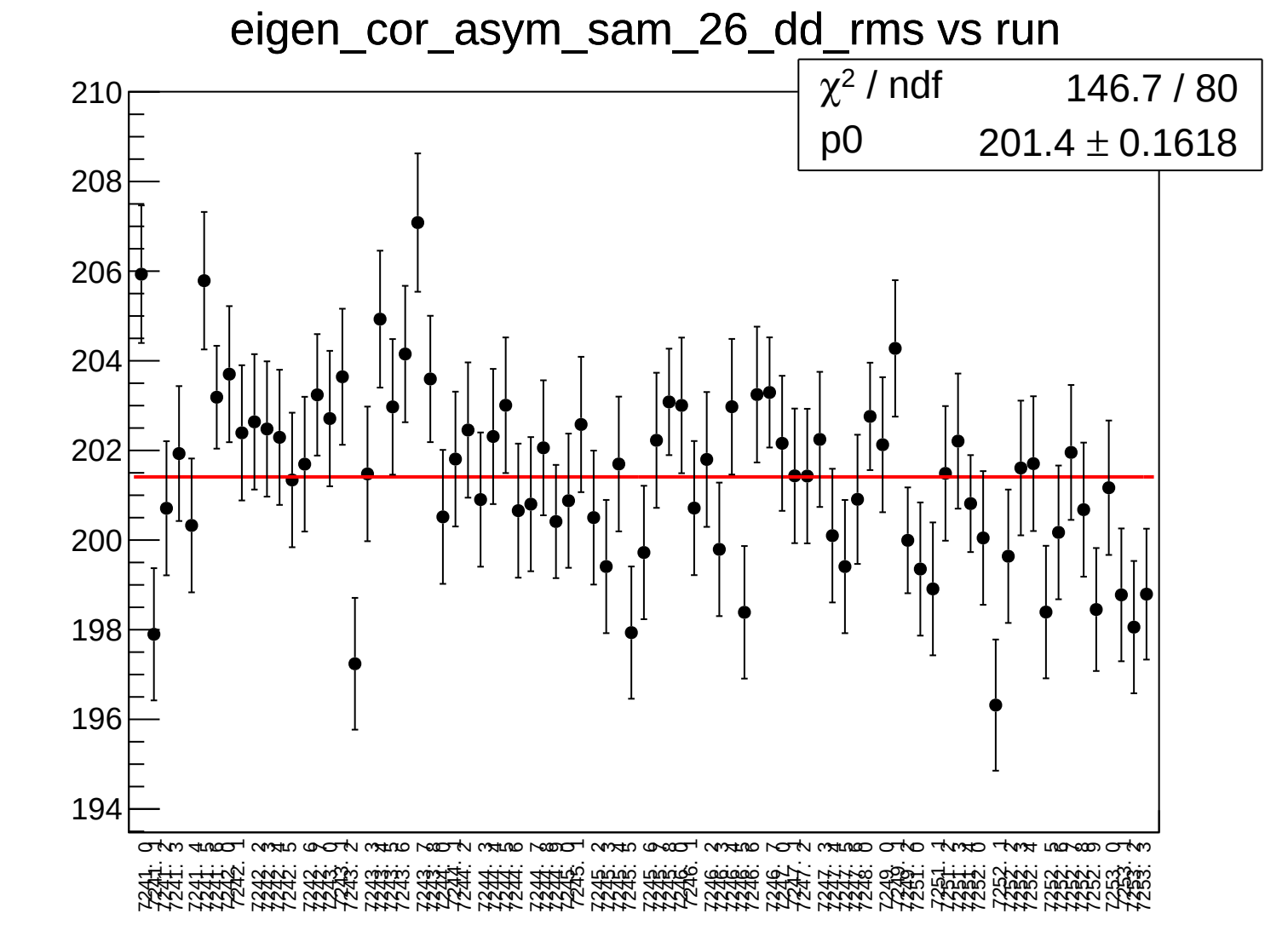

asym_sam_26_dd_cor_correction_mean vs run
χ² / ndf 77.05 / 80
p0 −1553 ± 1671
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean 1147
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

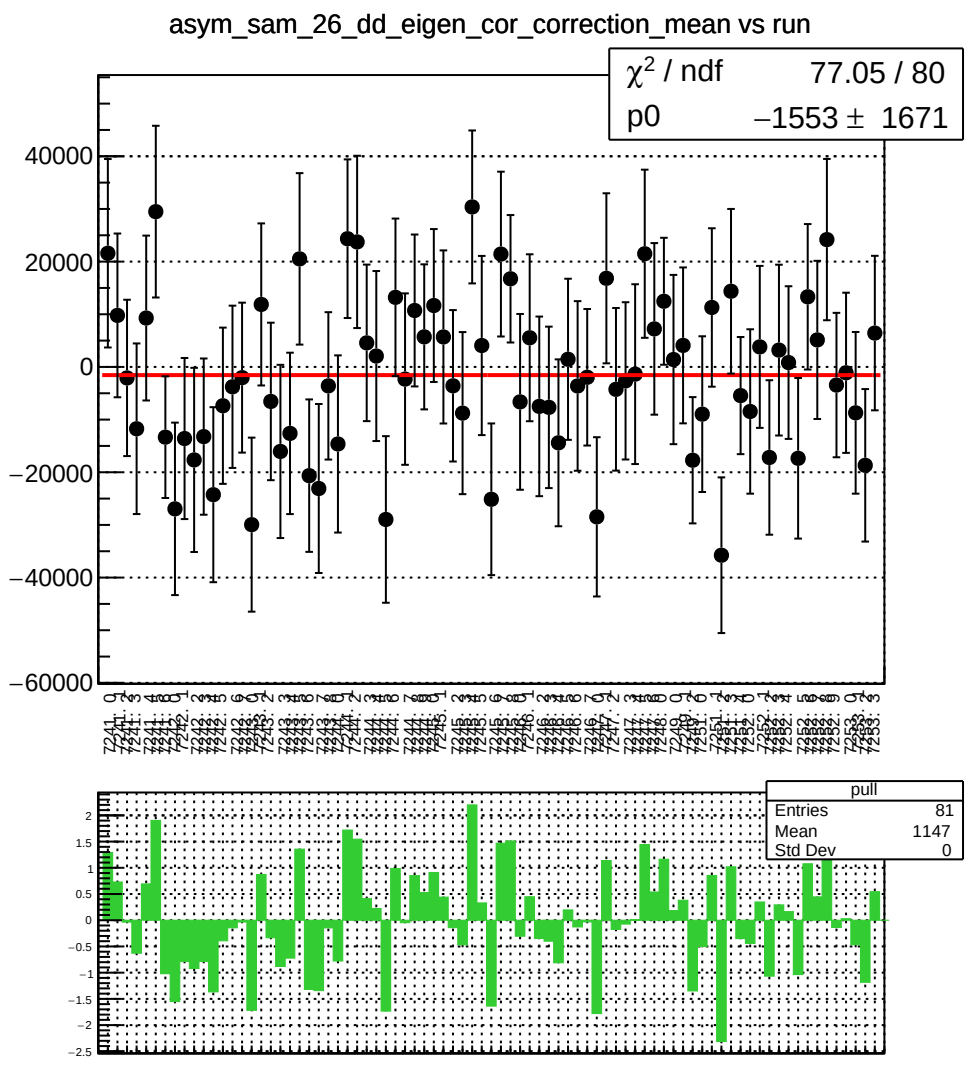

pull1D
Entries 81
Mean 0.001217
Std Dev 0.9753
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

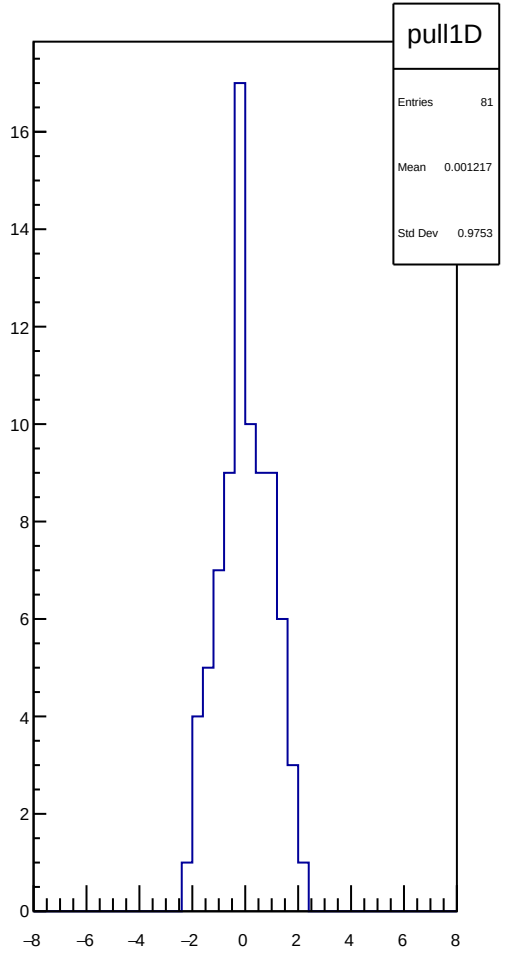

asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 3813 / 80
p0 1469 ± 1.181
1750
1700
1650
1600
1550
1500
1450
1400
1350
1300

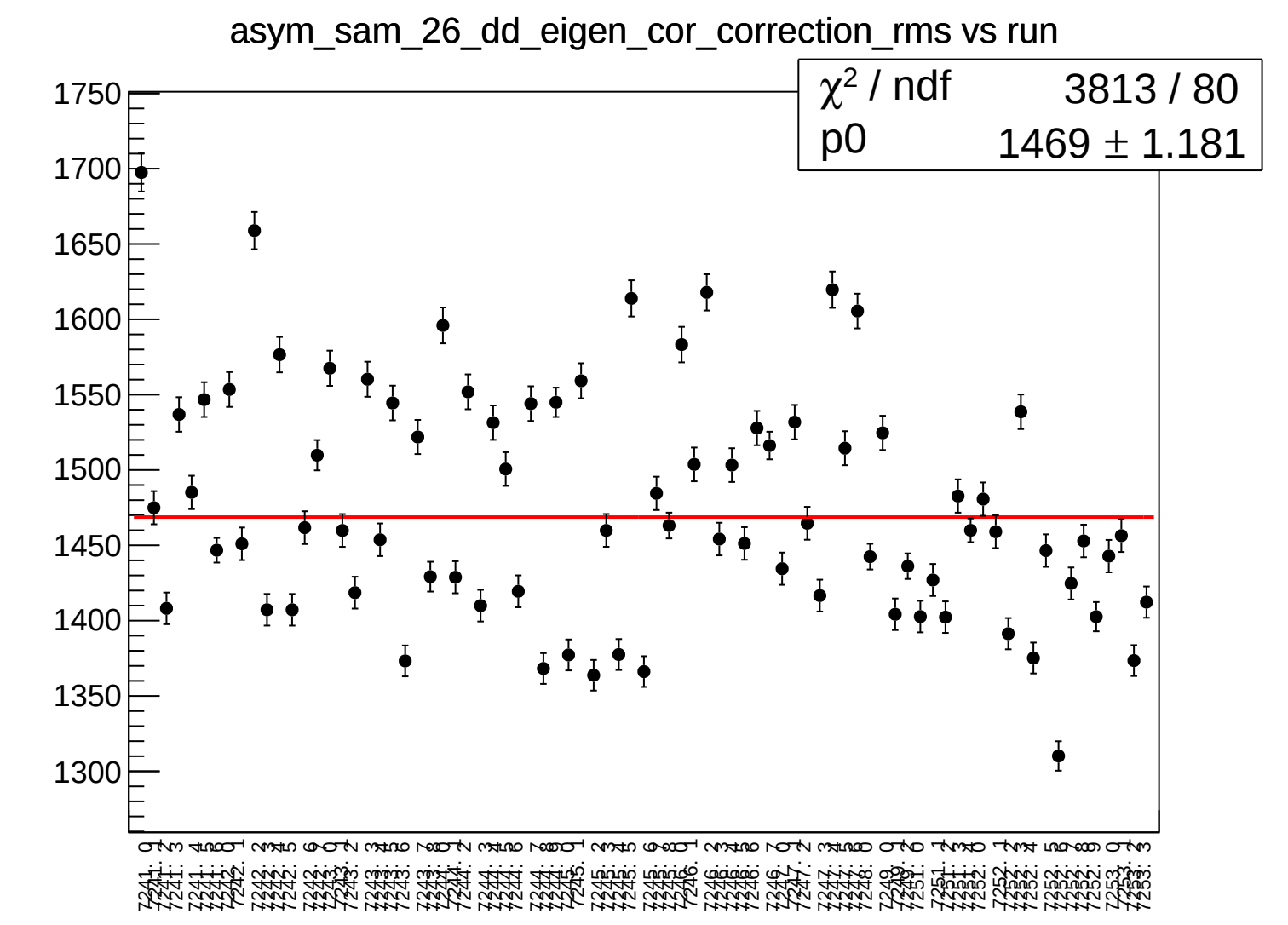

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 101.8 / 80
p0 −622.3 ± 228.9
pull
Entries 81
Mean −114.8
Std Dev 0

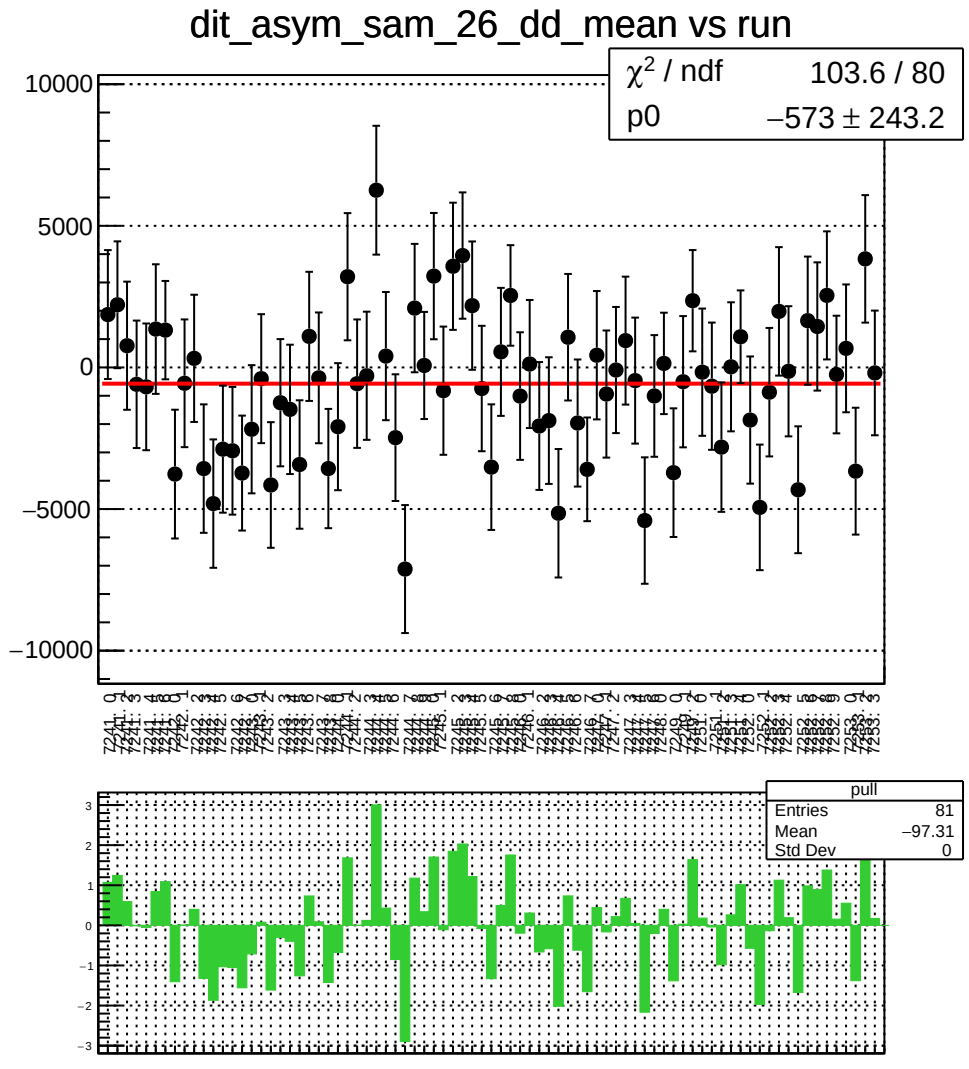

pull1D
Entries 81
Mean −0.0109
Std Dev 1.121

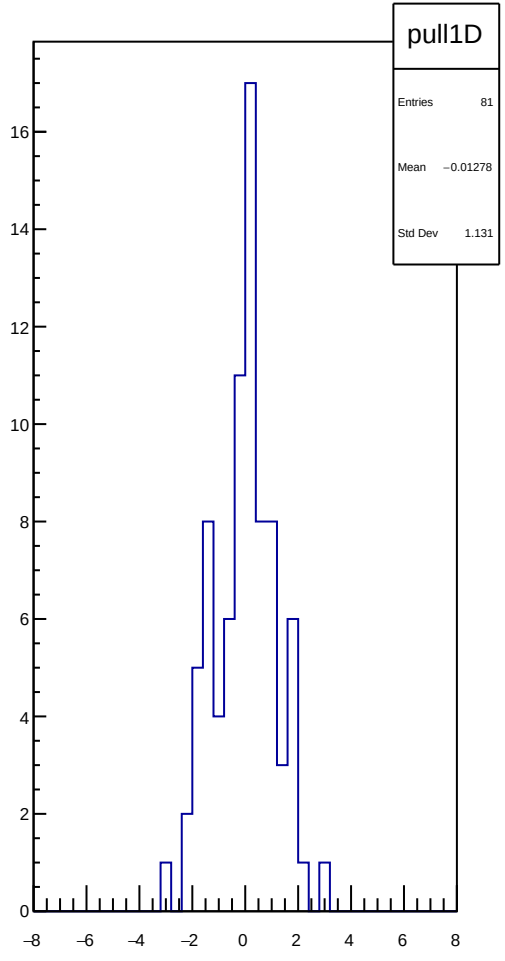

eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 146.7 / 80
p0 201.4 ± 0.1618
210
208
206
204
202
200
198
196
194

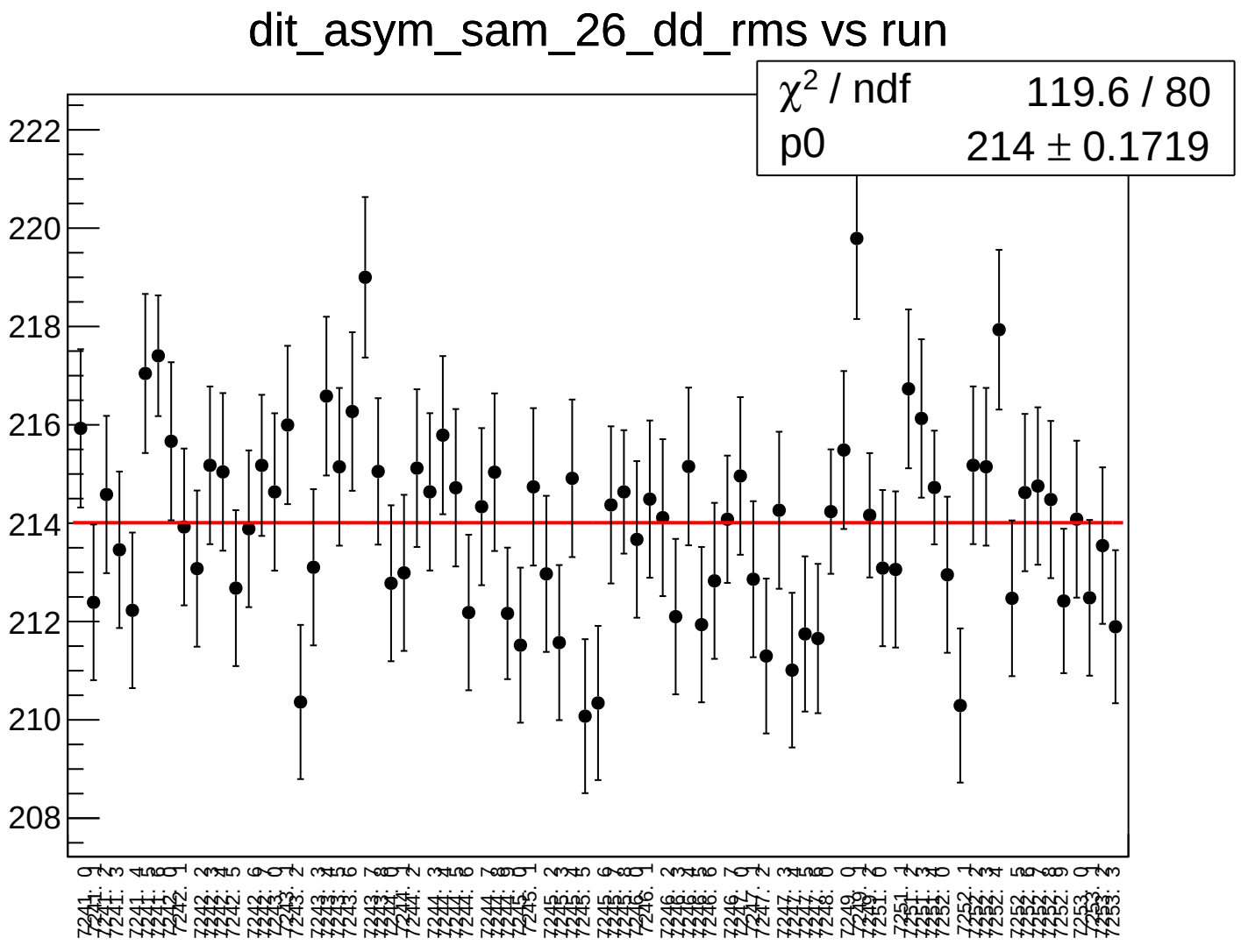

asym_sam_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 77.05 / 80
p0 −1553 ± 1671
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean 1147
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

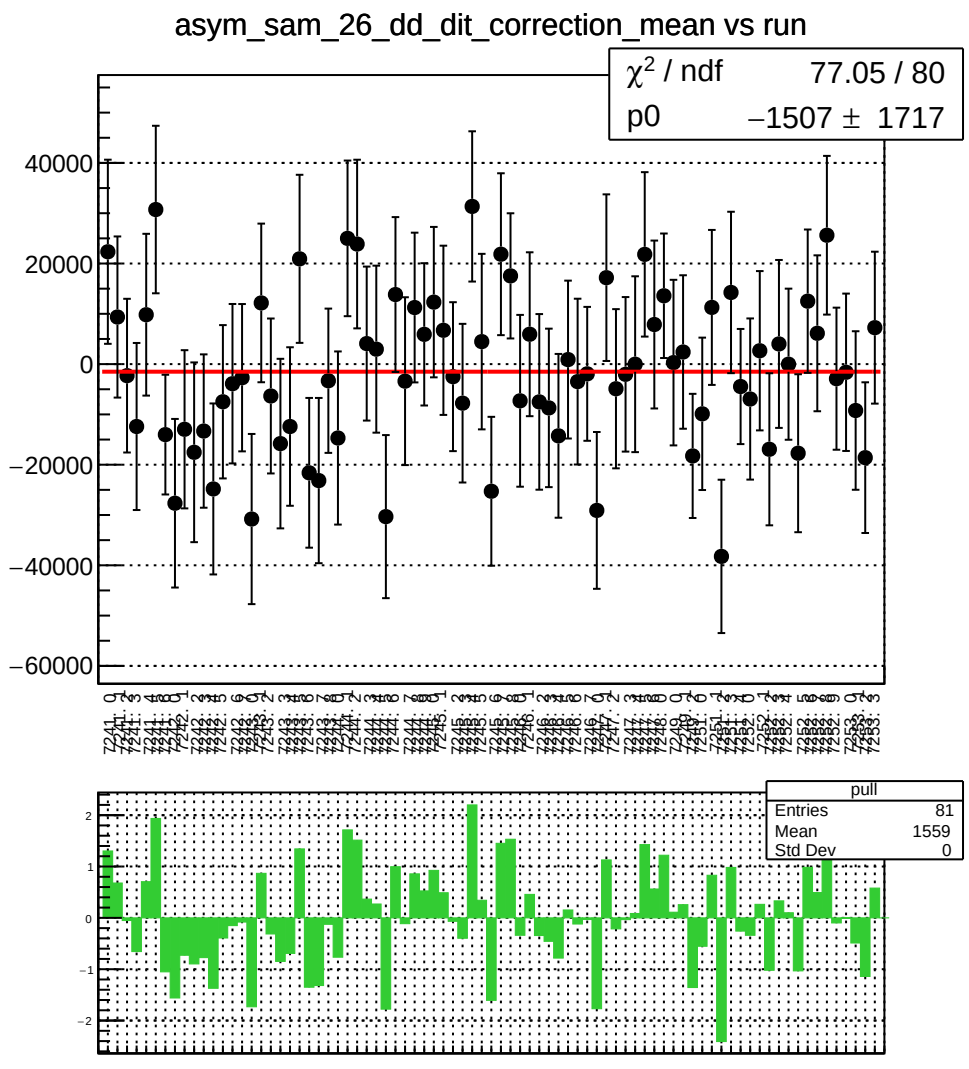

pull1D
Entries 81
Mean 0.001217
Std Dev 0.9753
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

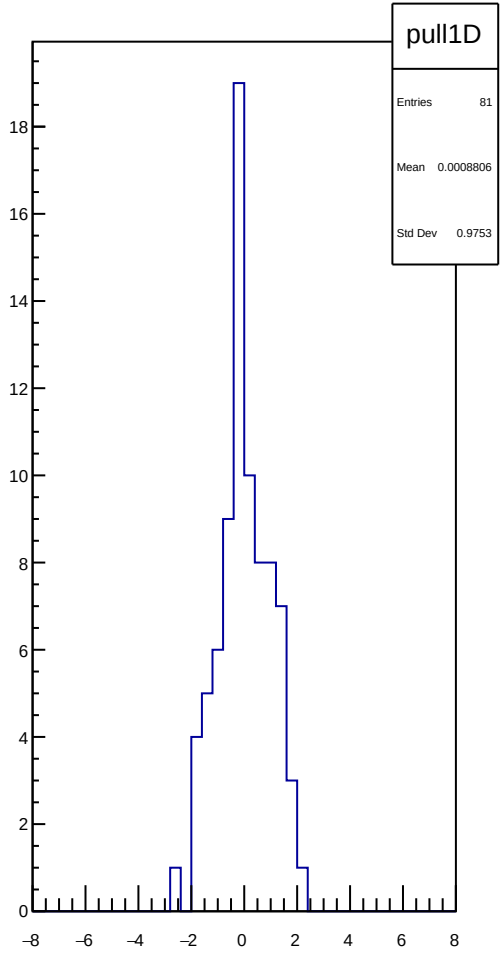

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 3813 / 80
p0 1469 ± 1.181
1750
1700
1650
1600
1550
1500
1450
1400
1350
1300

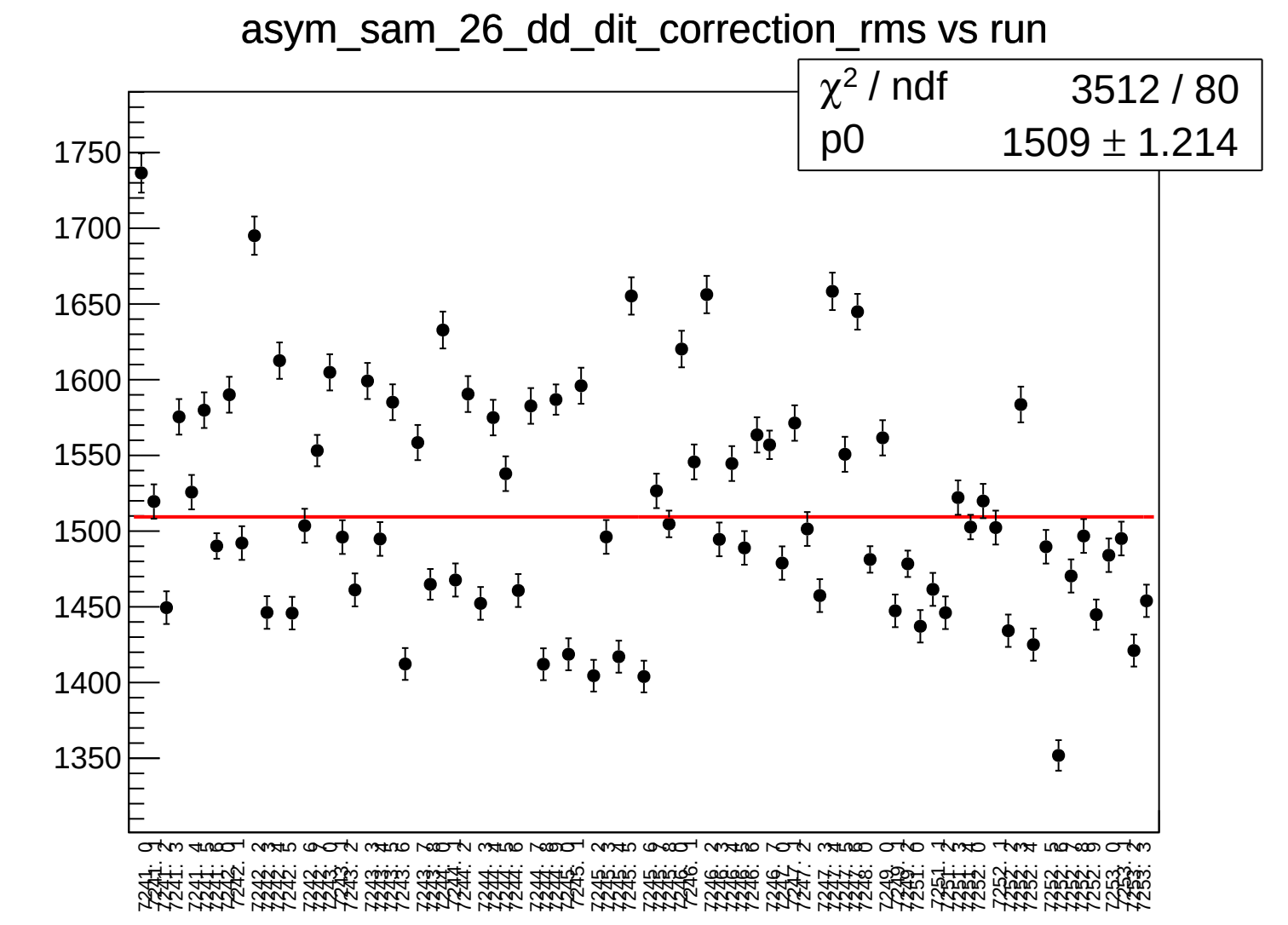

dit_asym_sam_26_dd_mean vs run
χ² / ndf 103.6 / 80
p0 −573 ± 243.2
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −97.31
Std Dev 0
3
2
1
0
−1
−2
−3

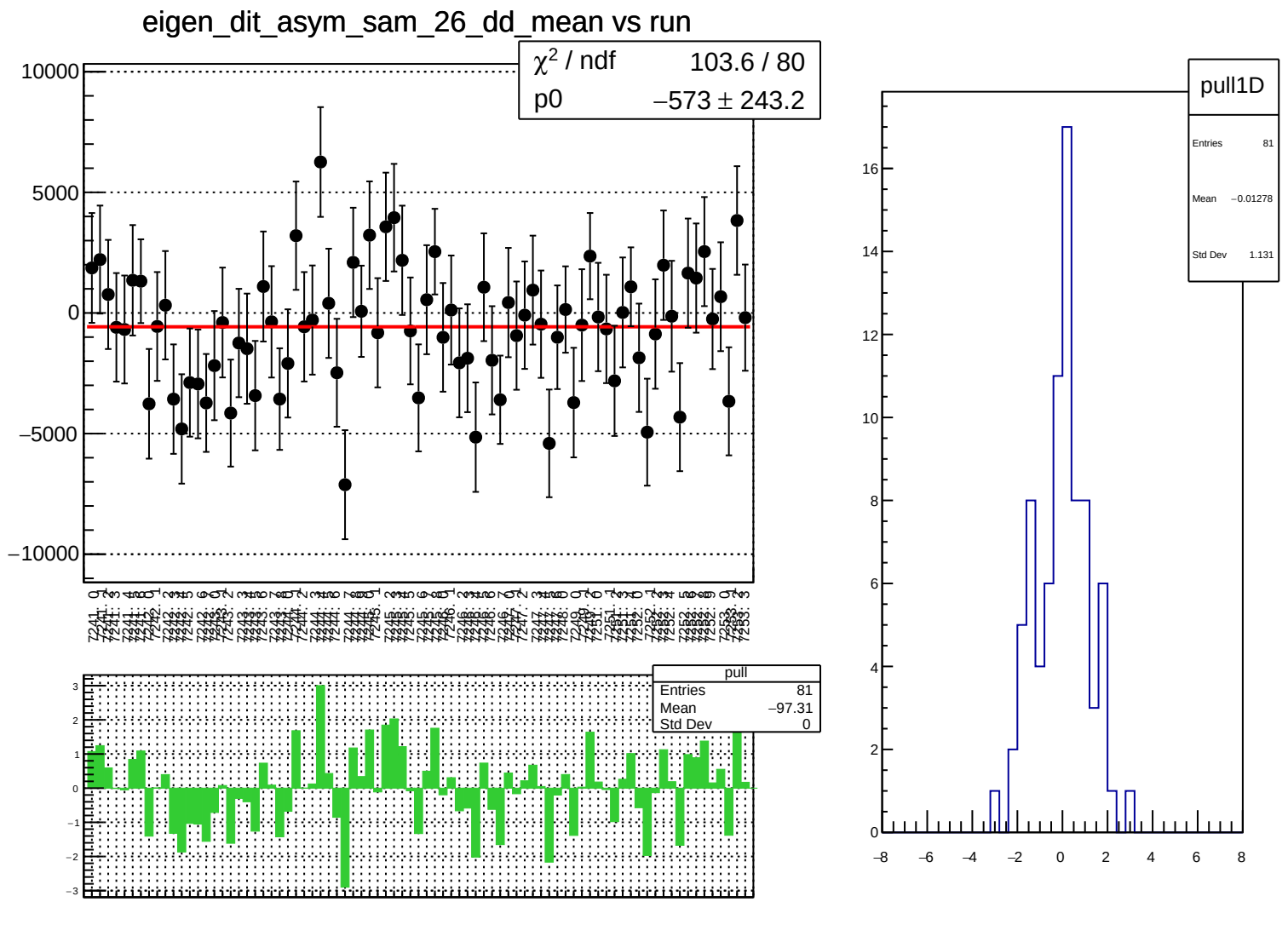

pull1D
Entries 81
Mean −0.01278
Std Dev 1.131
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

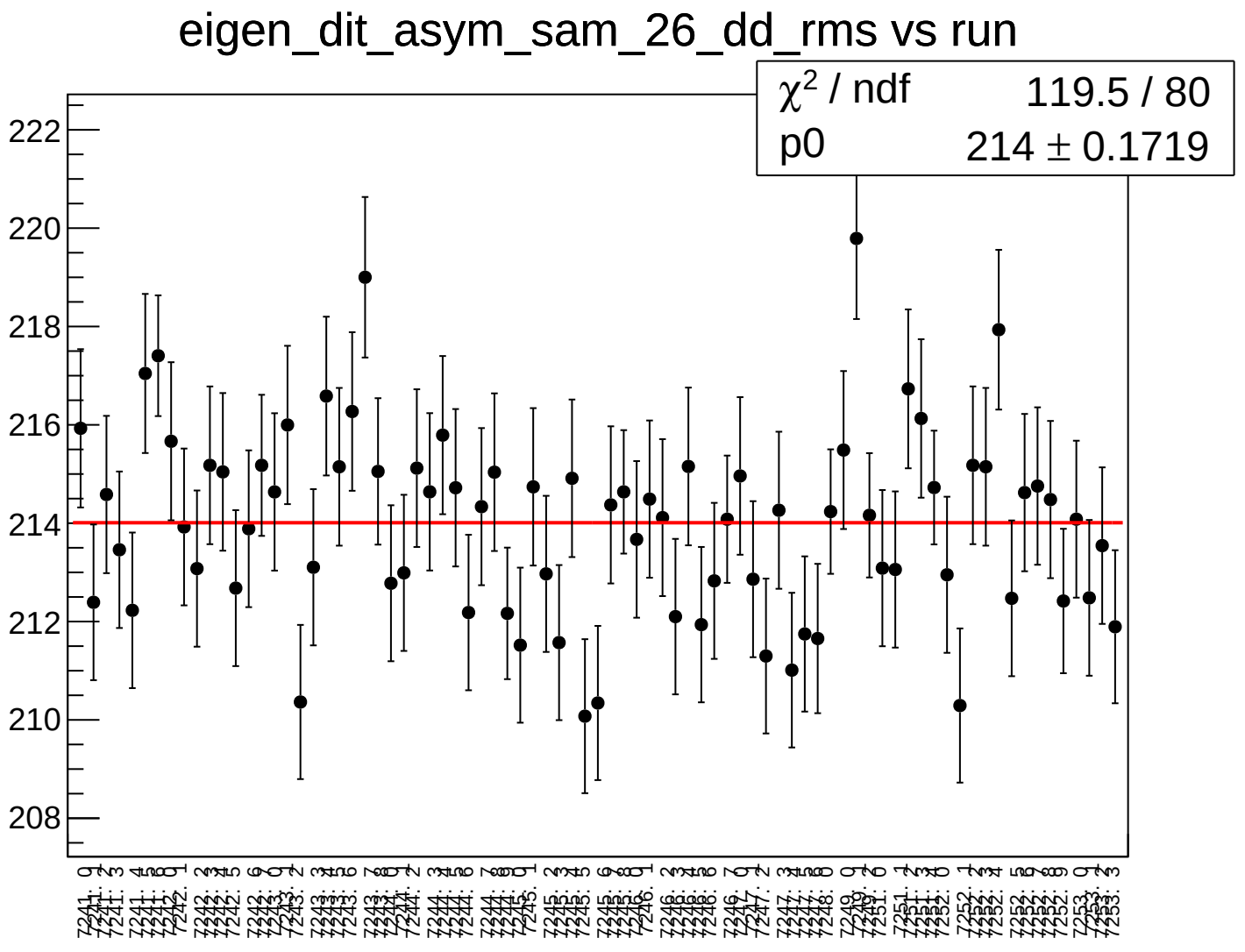

dit_asym_sam_26_dd_rms vs run
χ² / ndf 119.6 / 80
p0 214 ± 0.1719
222
220
218
216
214
212
210
208

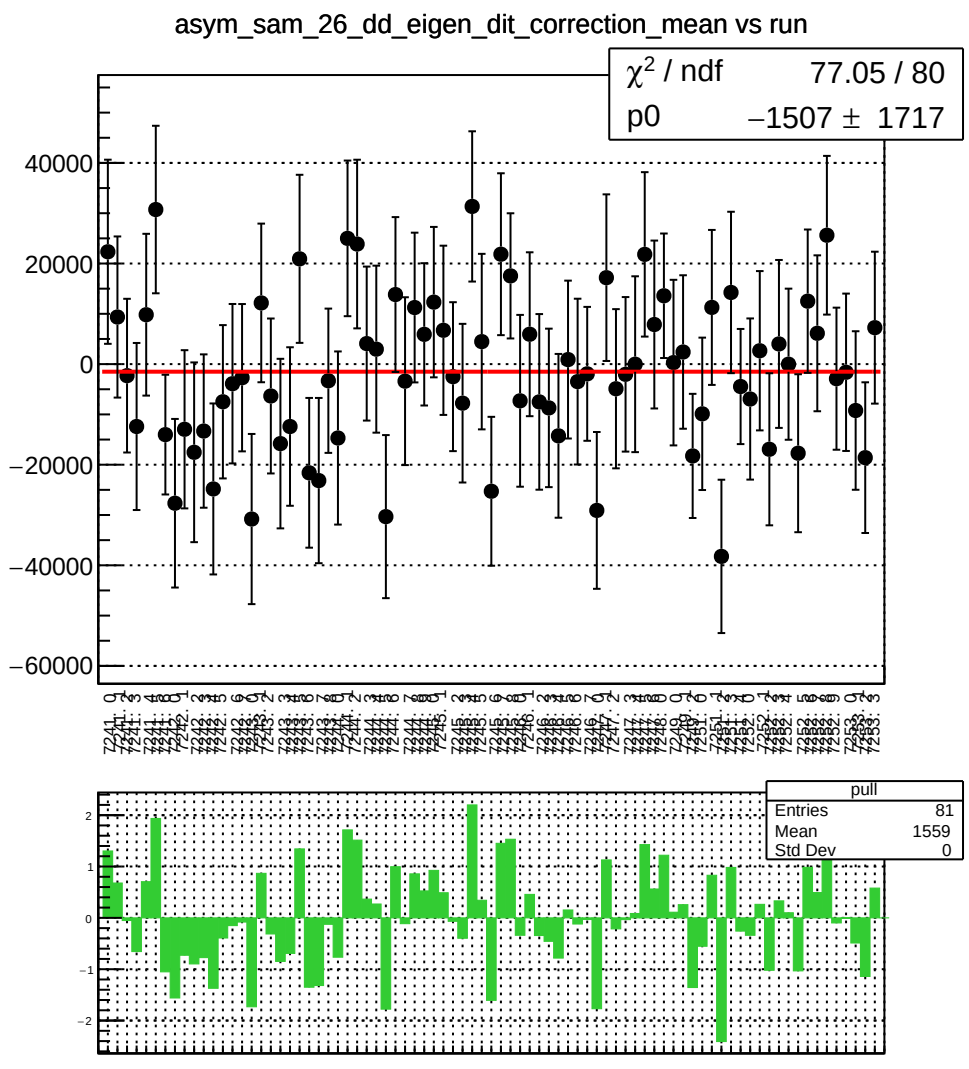

asym_sam_26_dd_dit_correction_mean vs run
χ² / ndf 77.05 / 80
p0 −1507 ± 1717
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean 1559
Std Dev 0
2
1
0
−1
−2

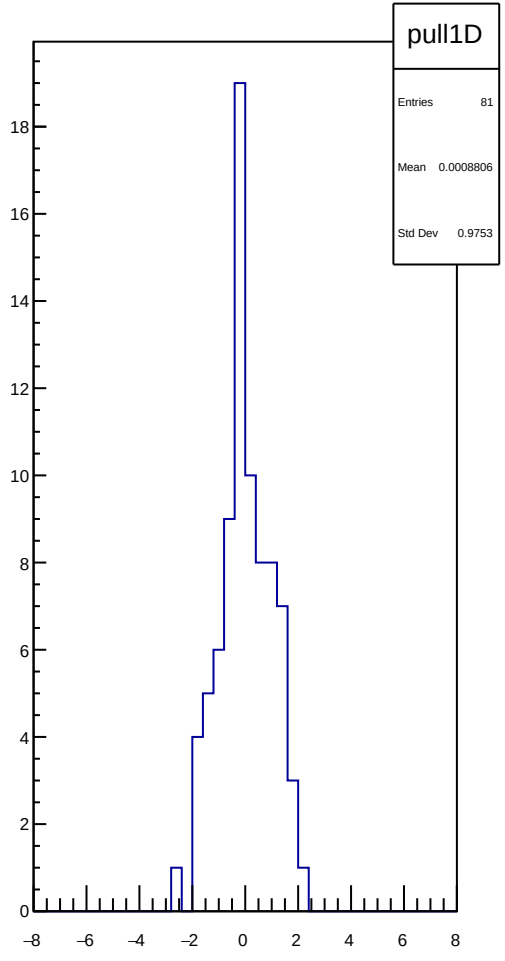

pull1D
Entries 81
Mean 0.0008806
Std Dev 0.9753
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

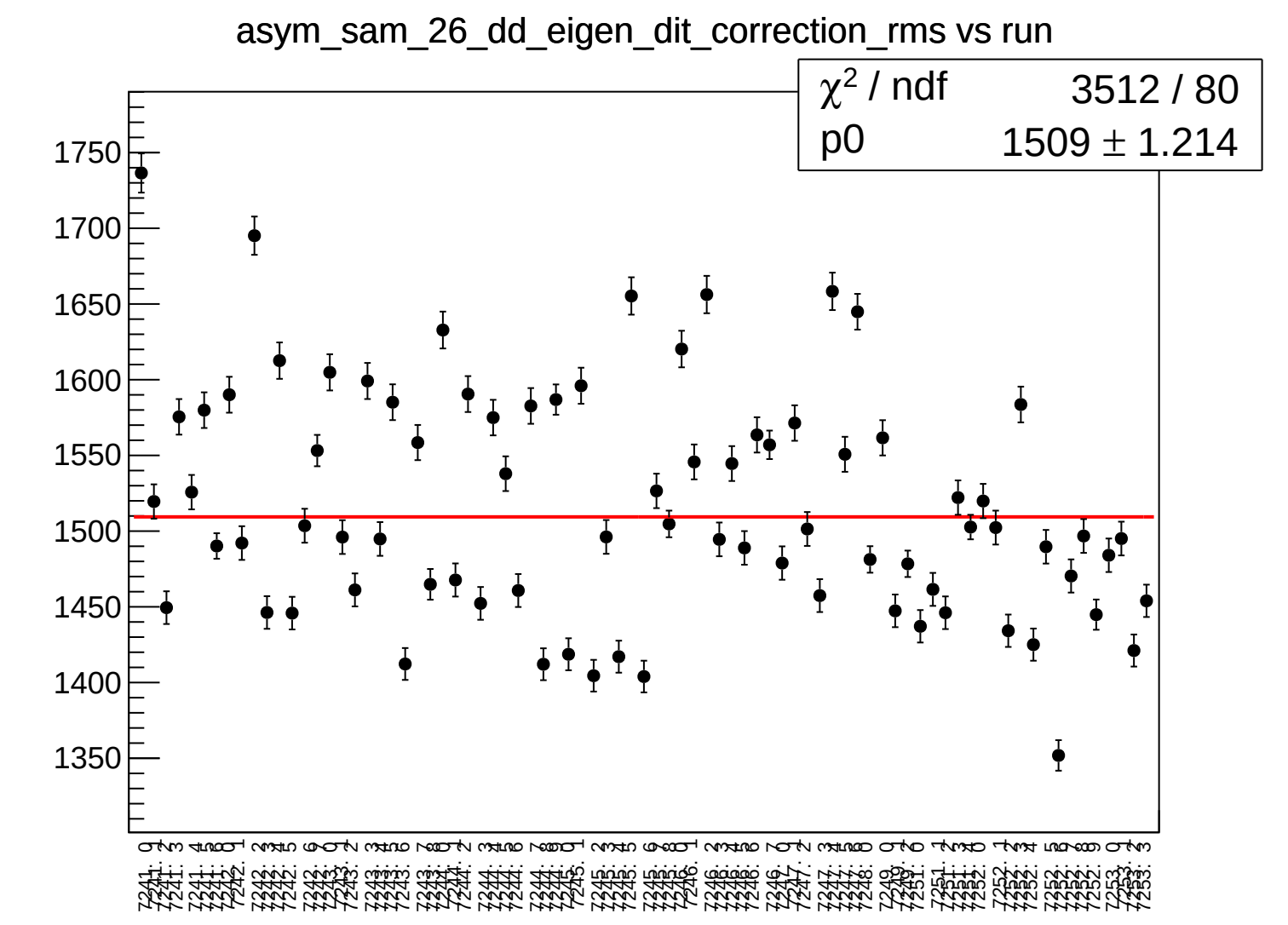

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 3512 / 80
p0 1509 ± 1.214
1750
1700
1650
1600
1550
1500
1450
1400
1350

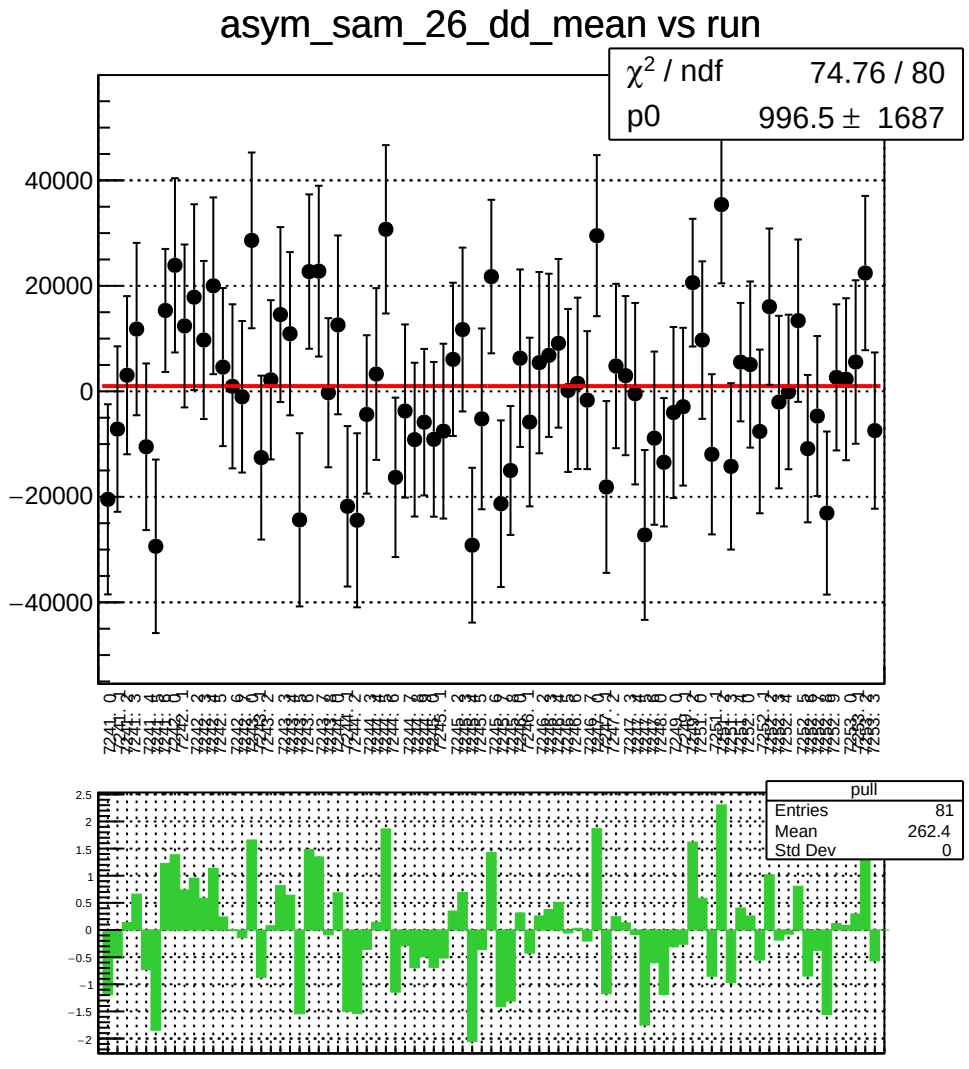

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 103.6 / 80
p0 −573 ± 243.2
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −97.31
Std Dev 0
pull1D
Entries 81
Mean −0.01278
Std Dev 1.131

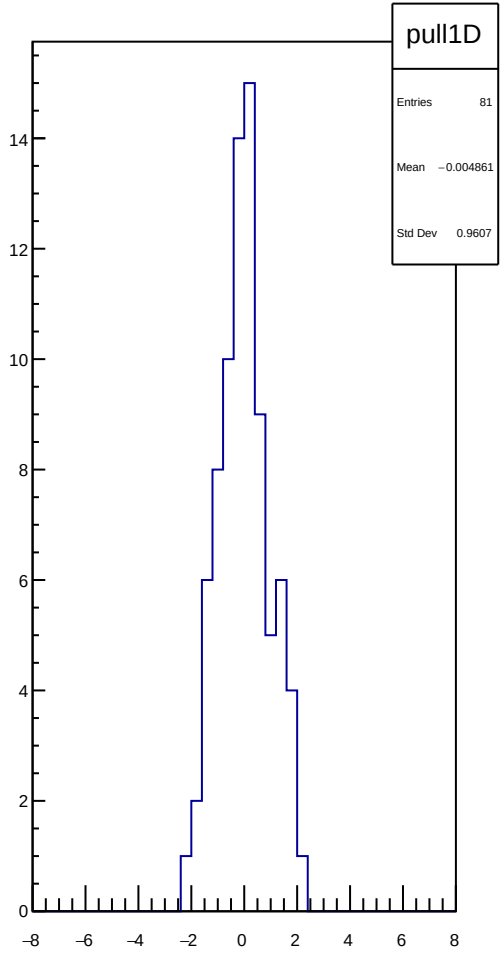

eigen_dit_asym_sam_26_dd_rms vs run
χ² / ndf 119.5 / 80
p0 214 ± 0.1719
222
220
218
216
214
212
210
208

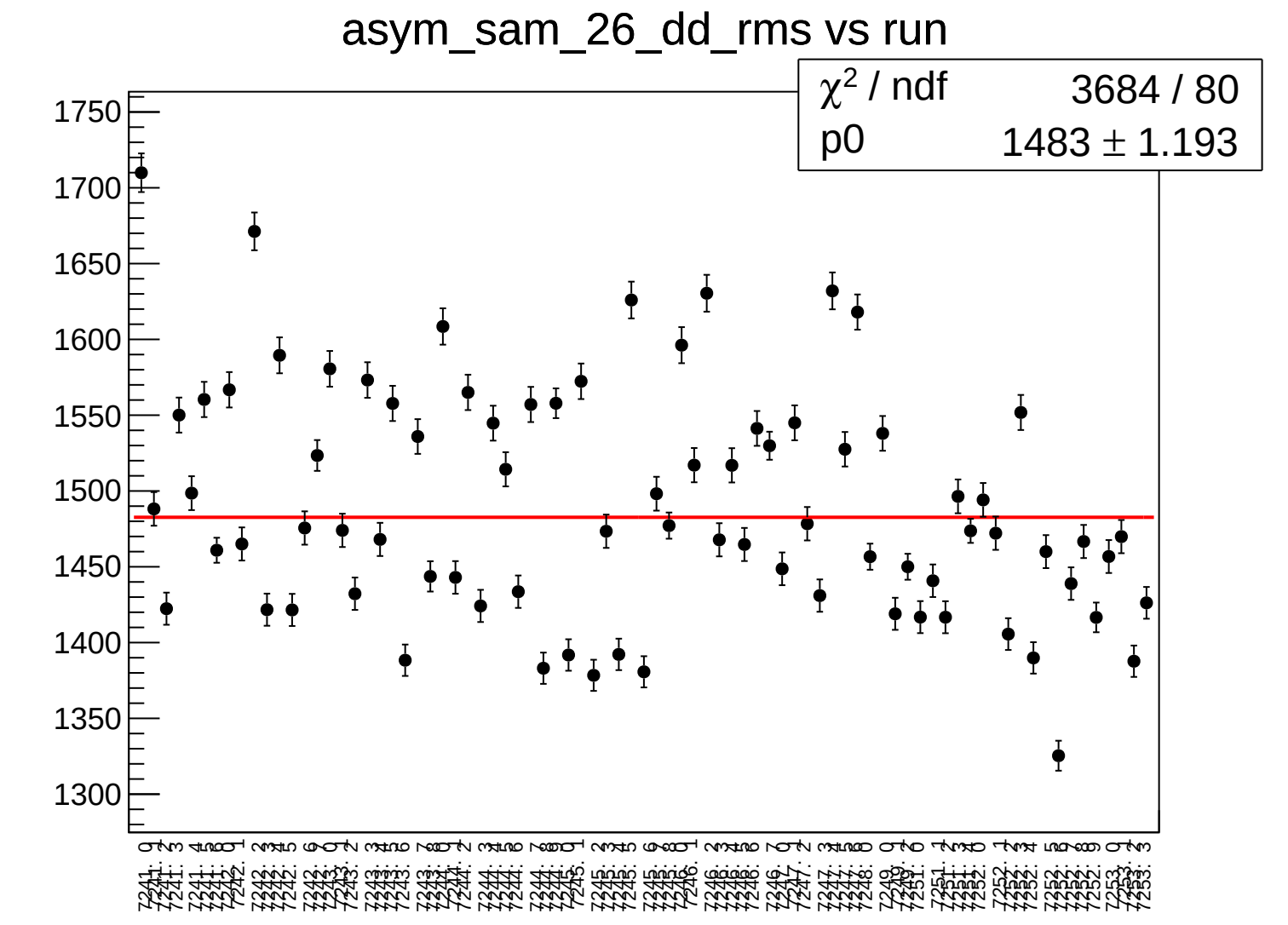

asym_sam_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 77.05 / 80
p0 −1507 ± 1717
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean 1559
Std Dev 0
2
1
0
−1
−2

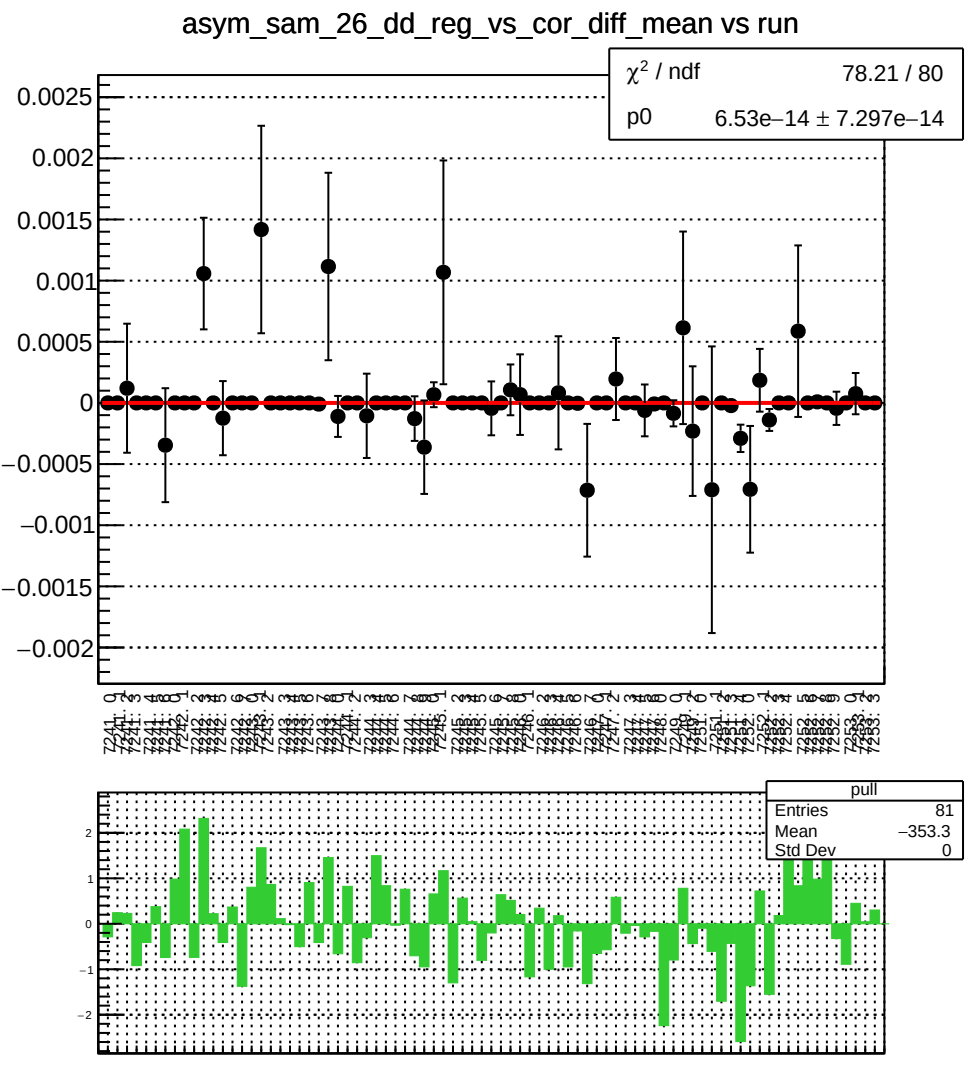

pull1D
Entries 81
Mean 0.0008806
Std Dev 0.9753
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

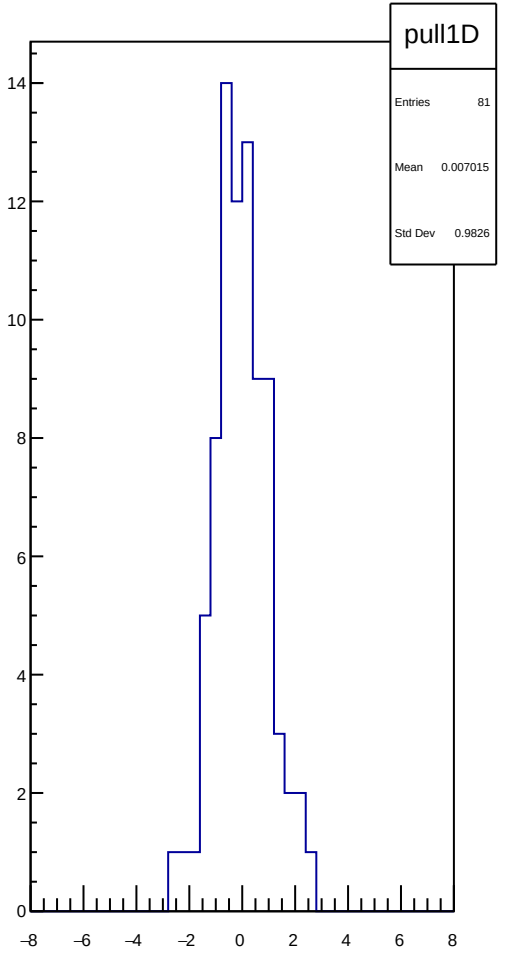

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 3512 / 80
p0 1509 ± 1.214
1750
1700
1650
1600
1550
1500
1450
1400
1350

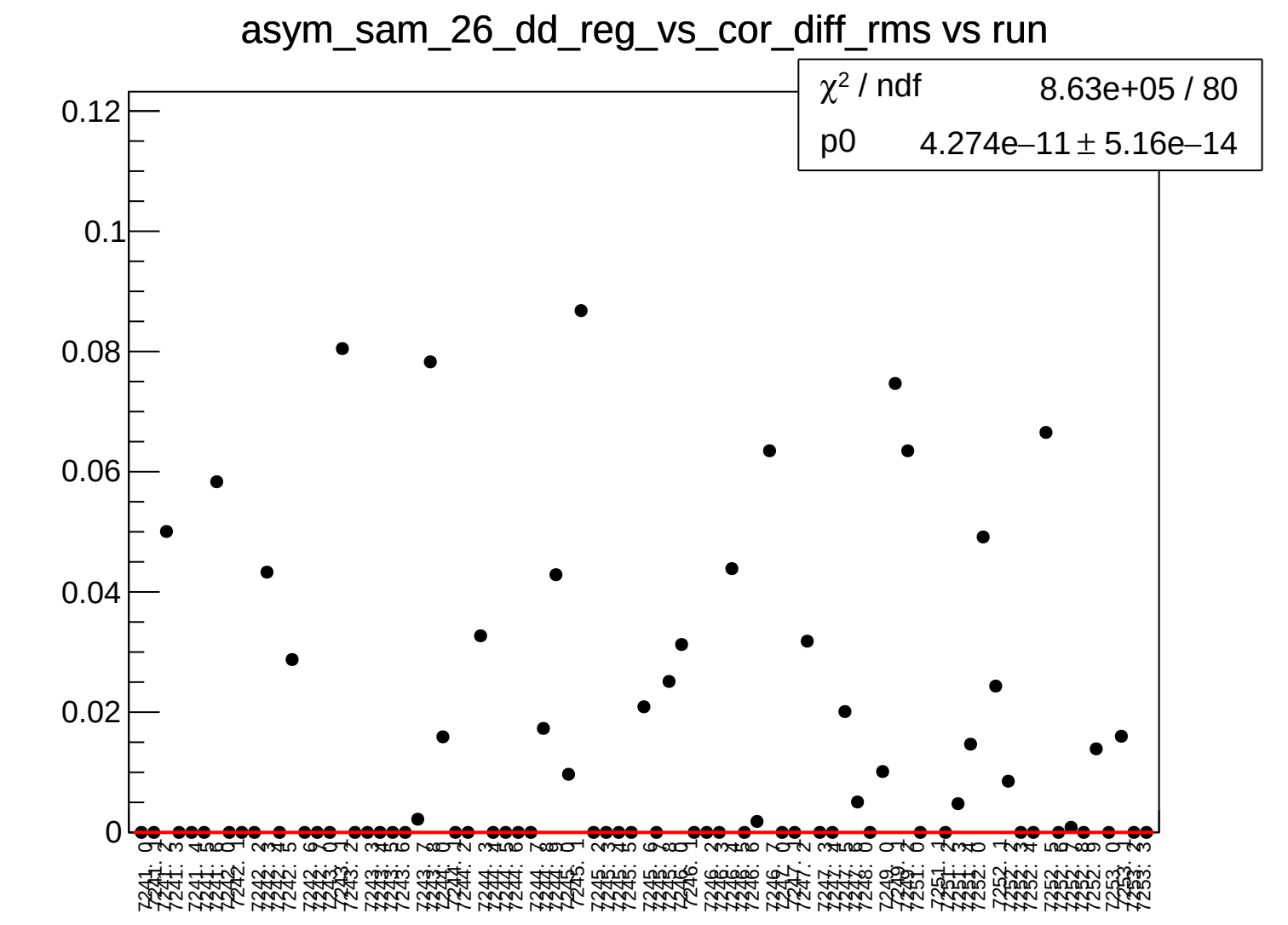

asym_sam_26_dd_mean vs run
χ² / ndf 74.76 / 80
p0 996.5 ± 1687
40000
20000
0
−20000
−40000
pull
Entries 81
Mean 262.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

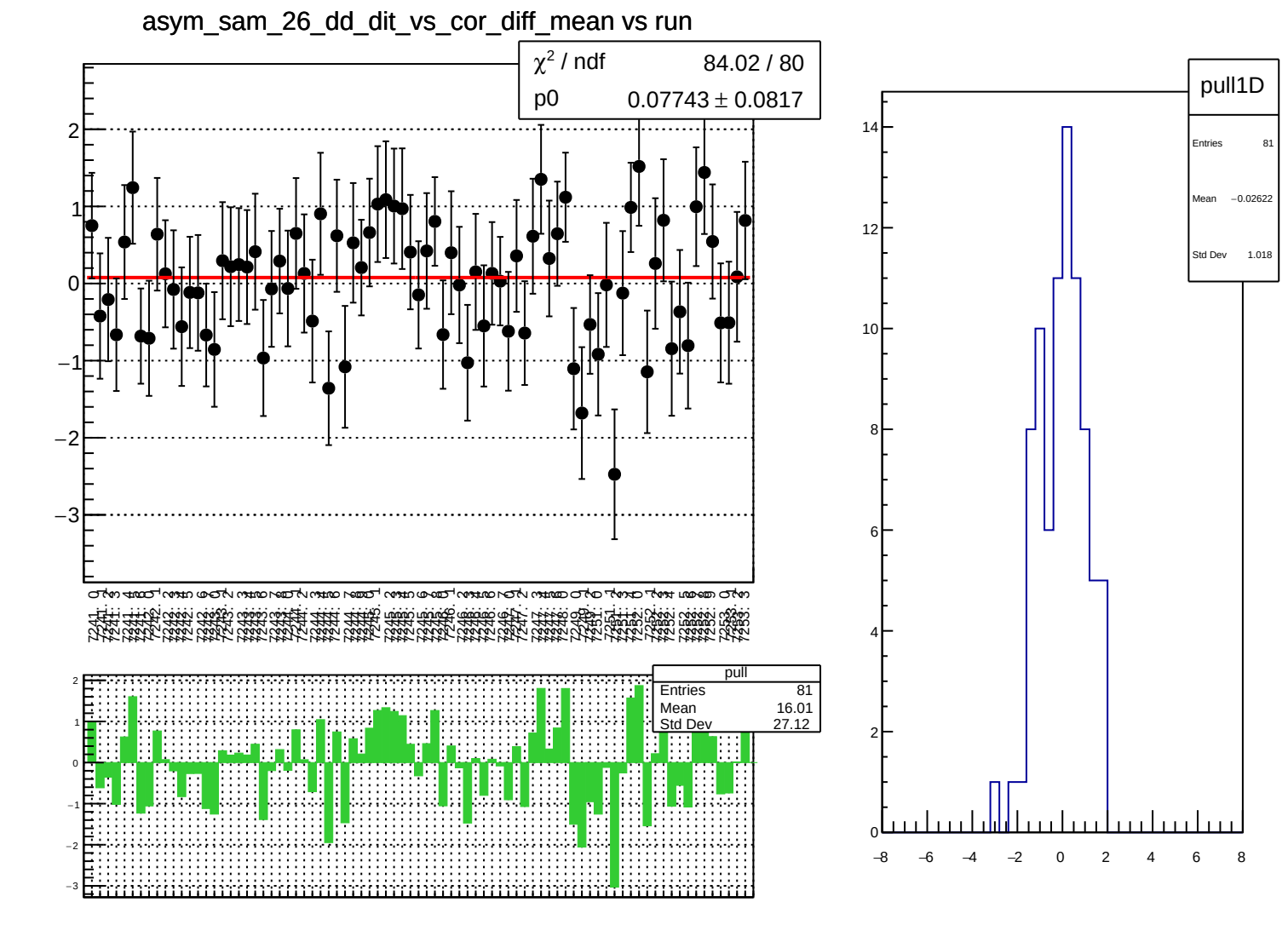

pull1D
Entries 81
Mean −0.004861
Std Dev 0.9607
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

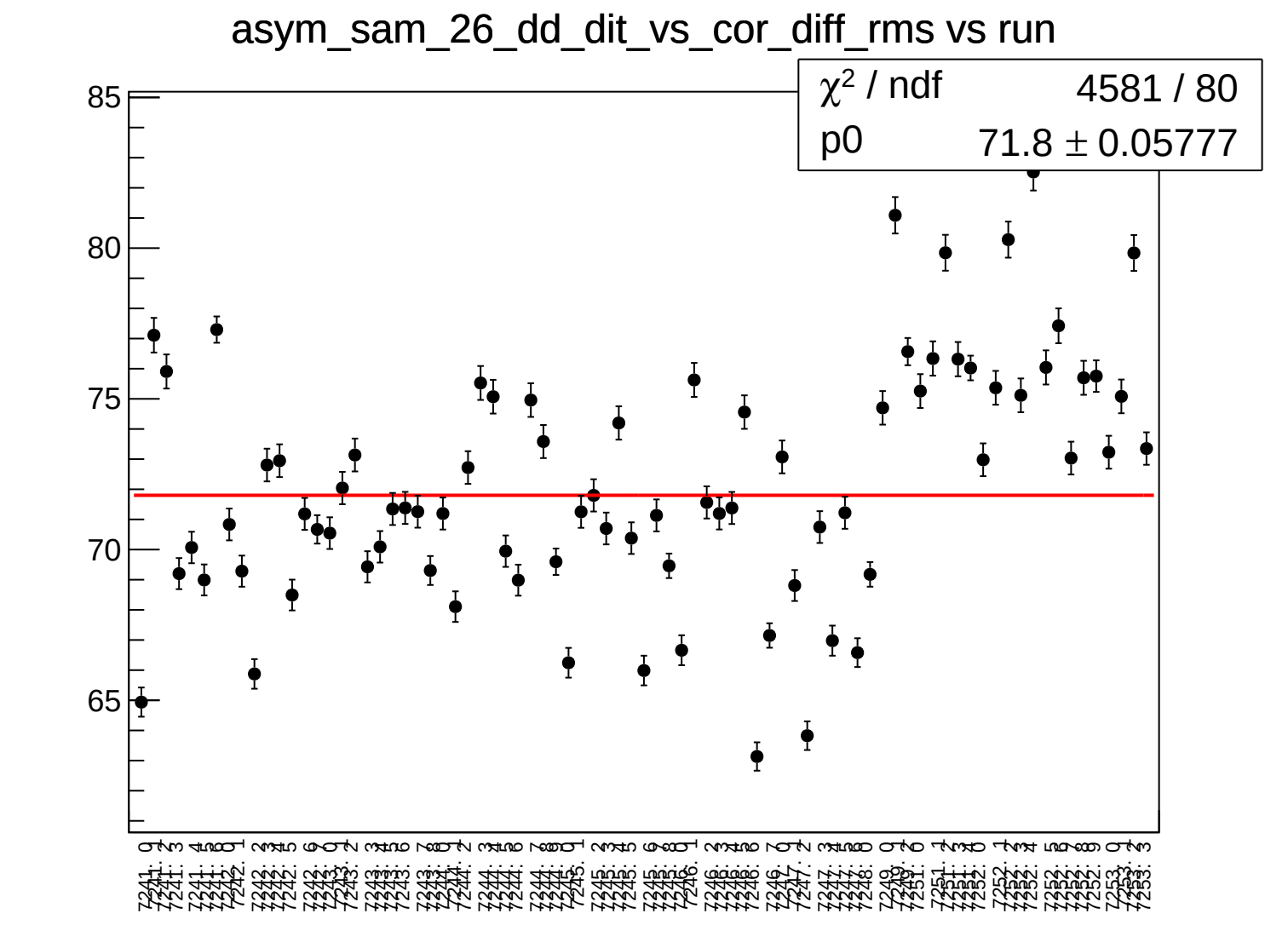

asym_sam_26_dd_rms vs run
χ² / ndf 3684 / 80
p0 1483 ± 1.193
1750
1700
1650
1600
1550
1500
1450
1400
1350
1300

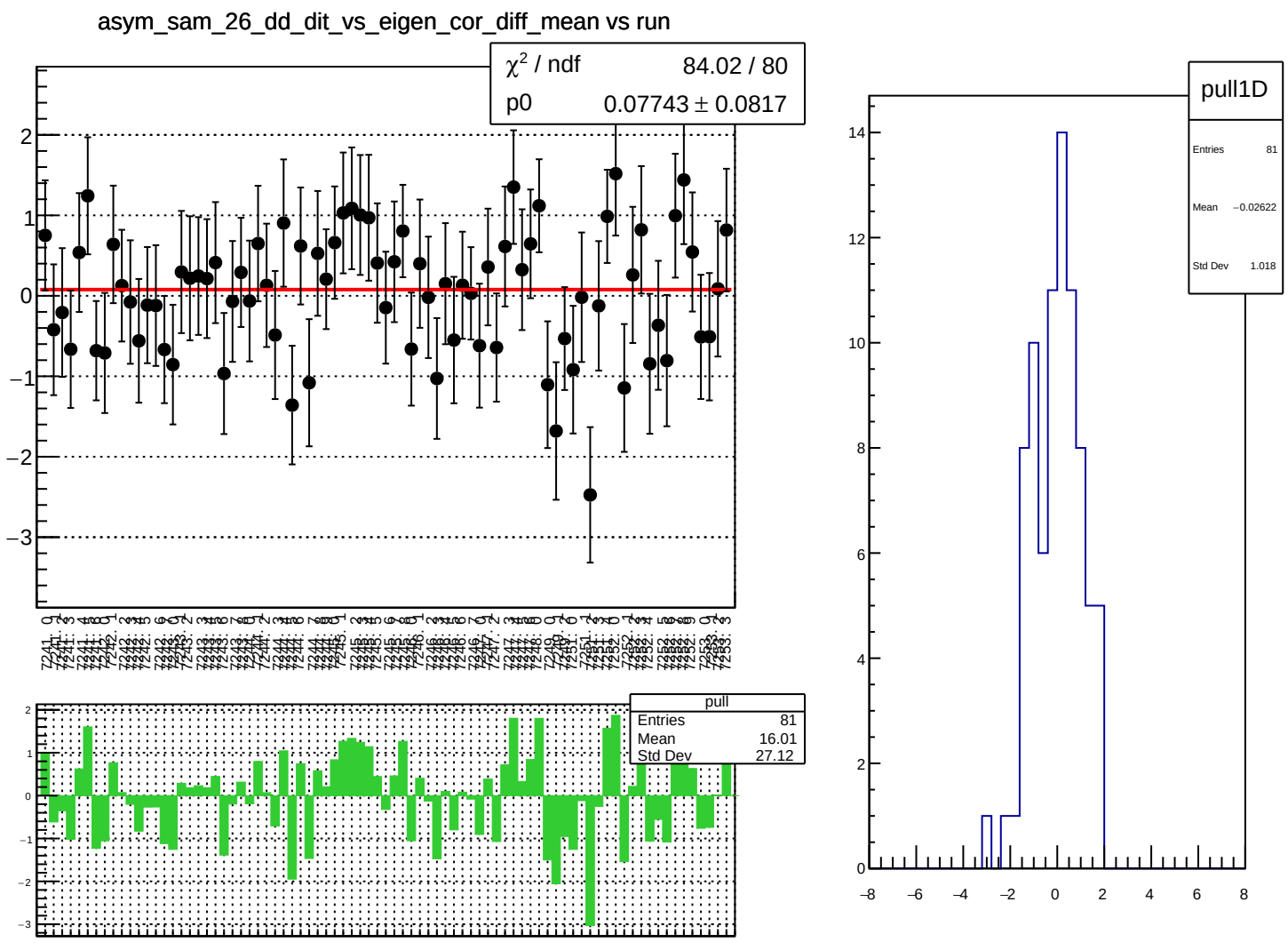

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 78.21 / 80
p0 6.53e−14 ± 7.297e−14
pull
Entries 81
Mean −353.3
Std Dev 0

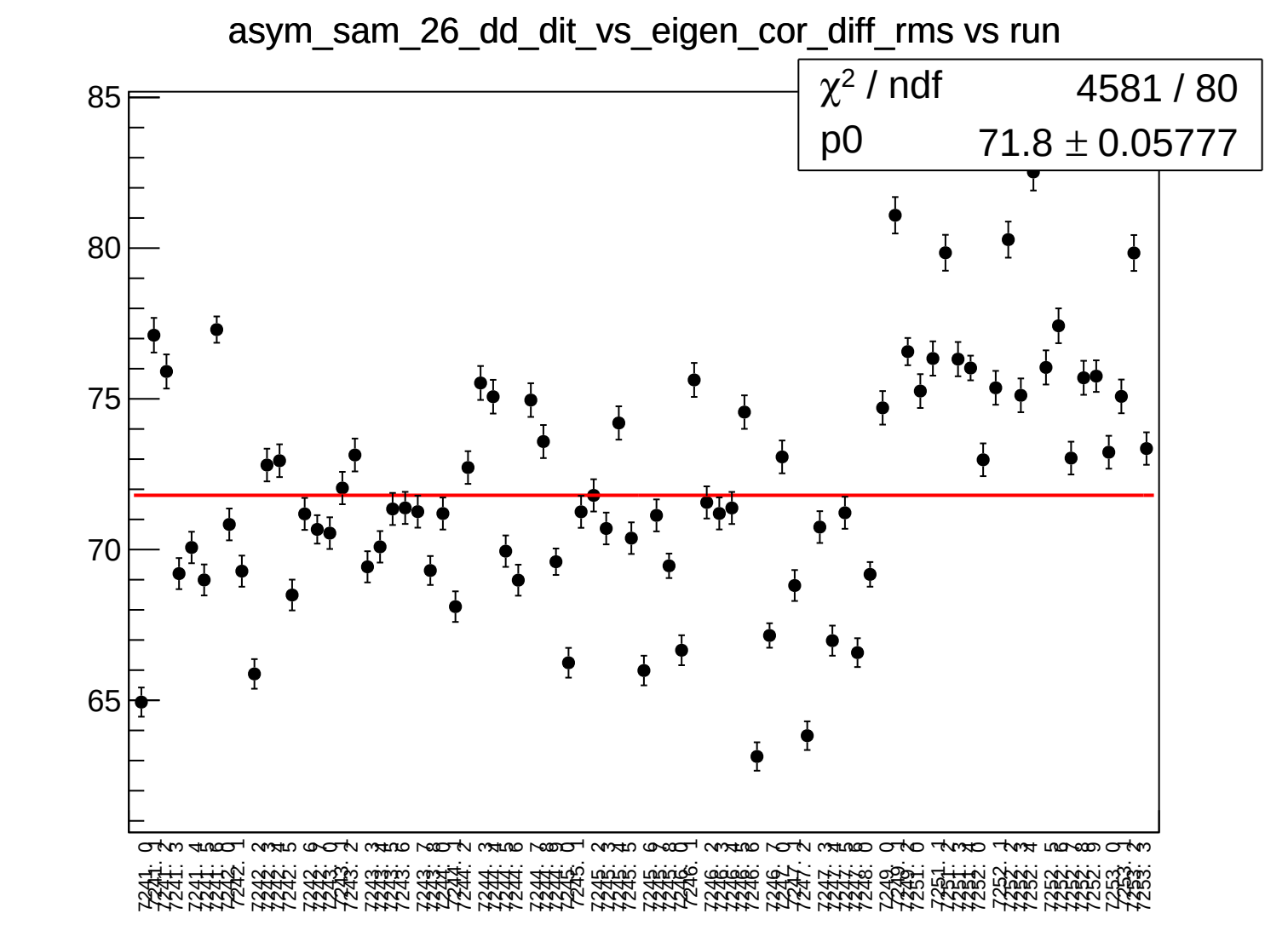

pull1D
Entries 81
Mean 0.007015
Std Dev 0.9826

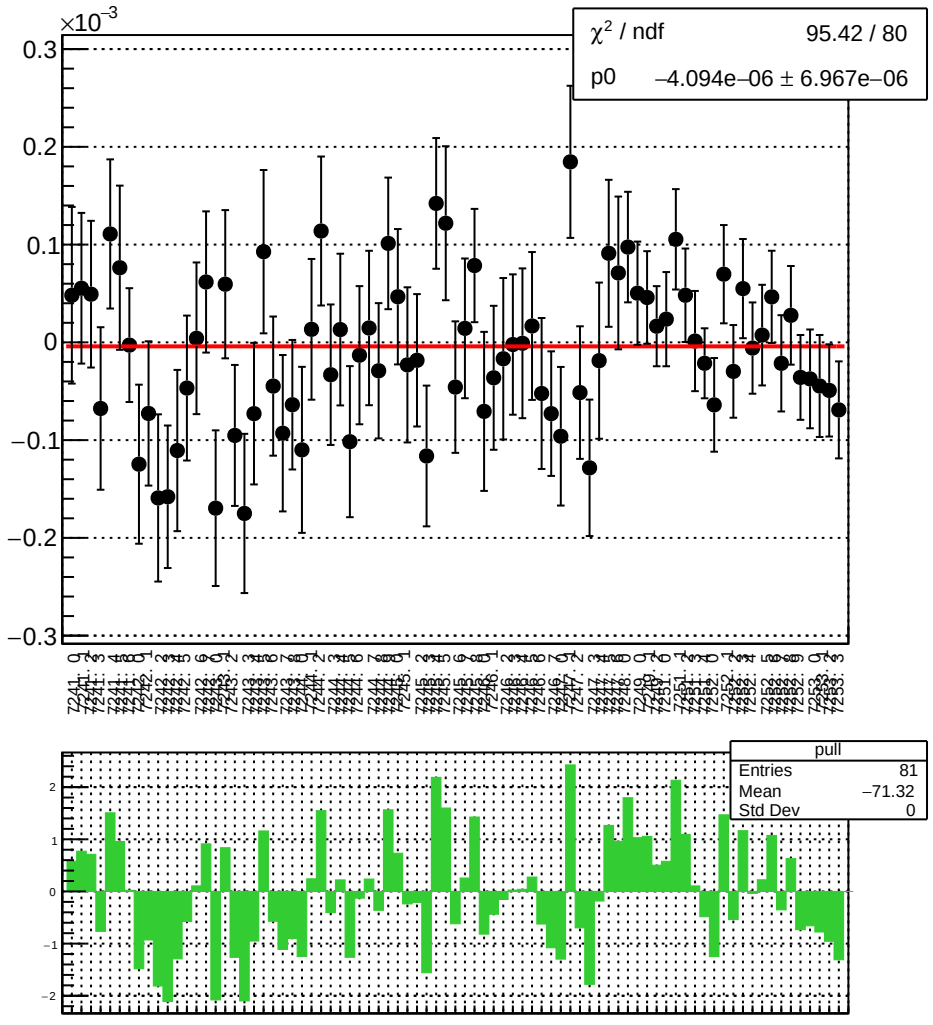

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.63e+05 / 80
p0 4.274e−11 ± 5.16e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

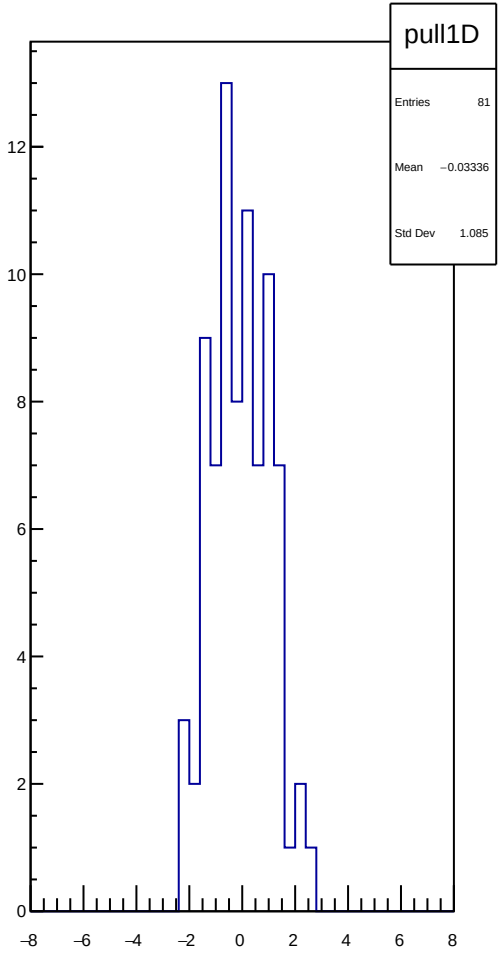

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 84.02 / 80
p0 0.07743 ± 0.0817
pull
Entries 81
Mean 16.01
Std Dev 27.12
pull1D
Entries 81
Mean −0.02622
Std Dev 1.018

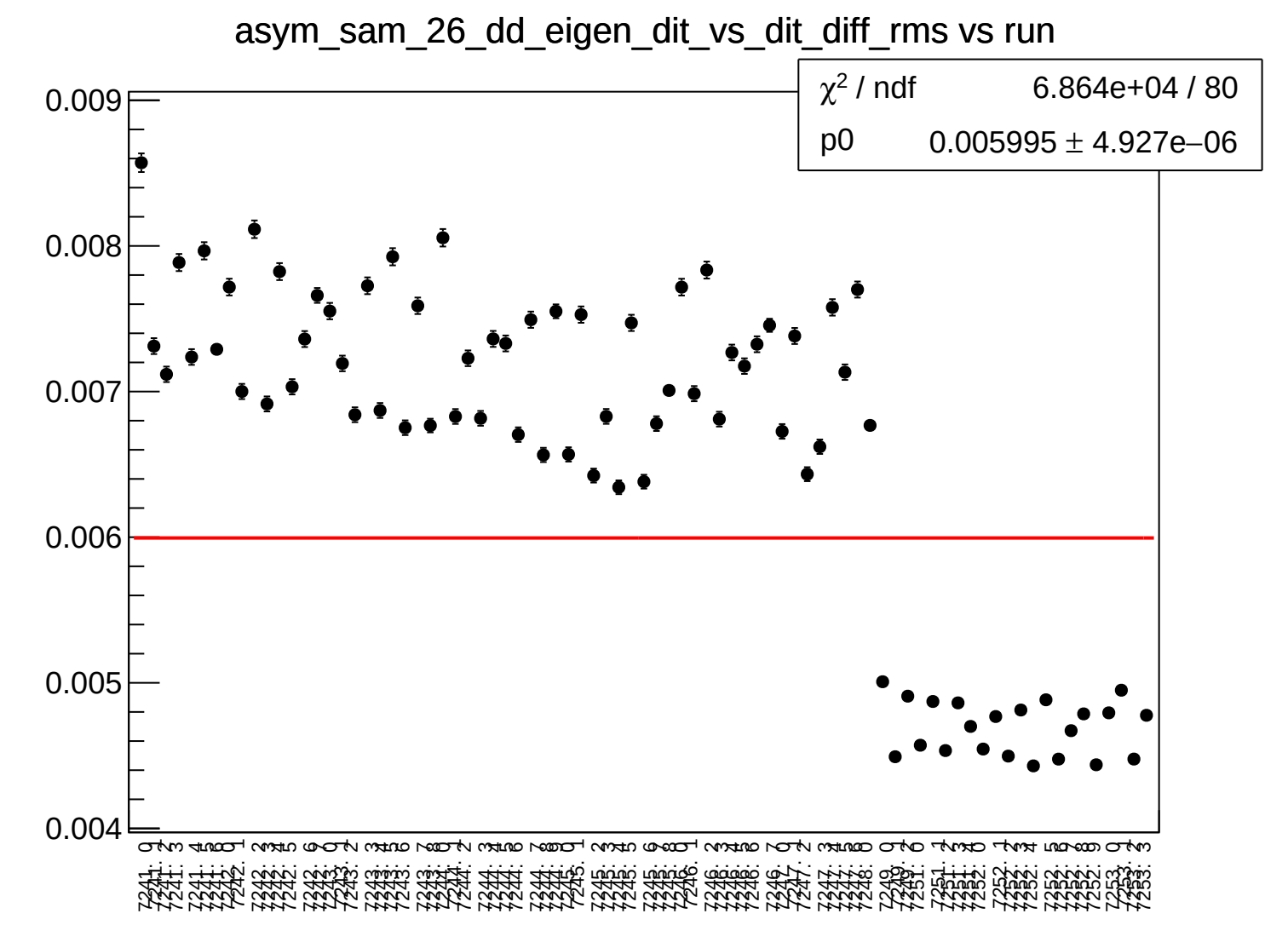

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4581 / 80
p0 71.8 ± 0.05777
85
80
75
70
65

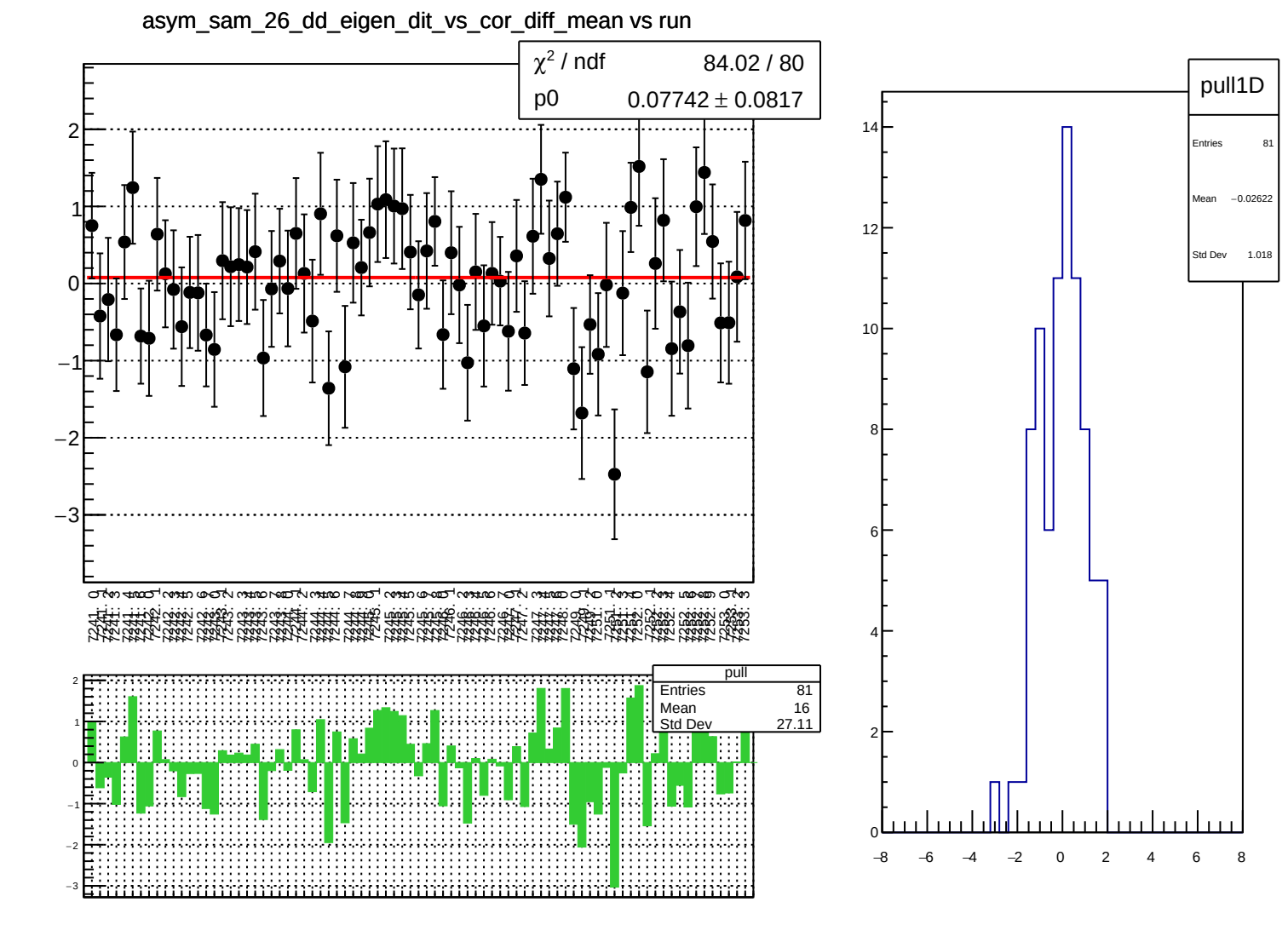

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.02 / 80
p0 0.07743 ± 0.0817
pull
Entries 81
Mean 16.01
Std Dev 27.12
pull1D
Entries 81
Mean −0.02622
Std Dev 1.018

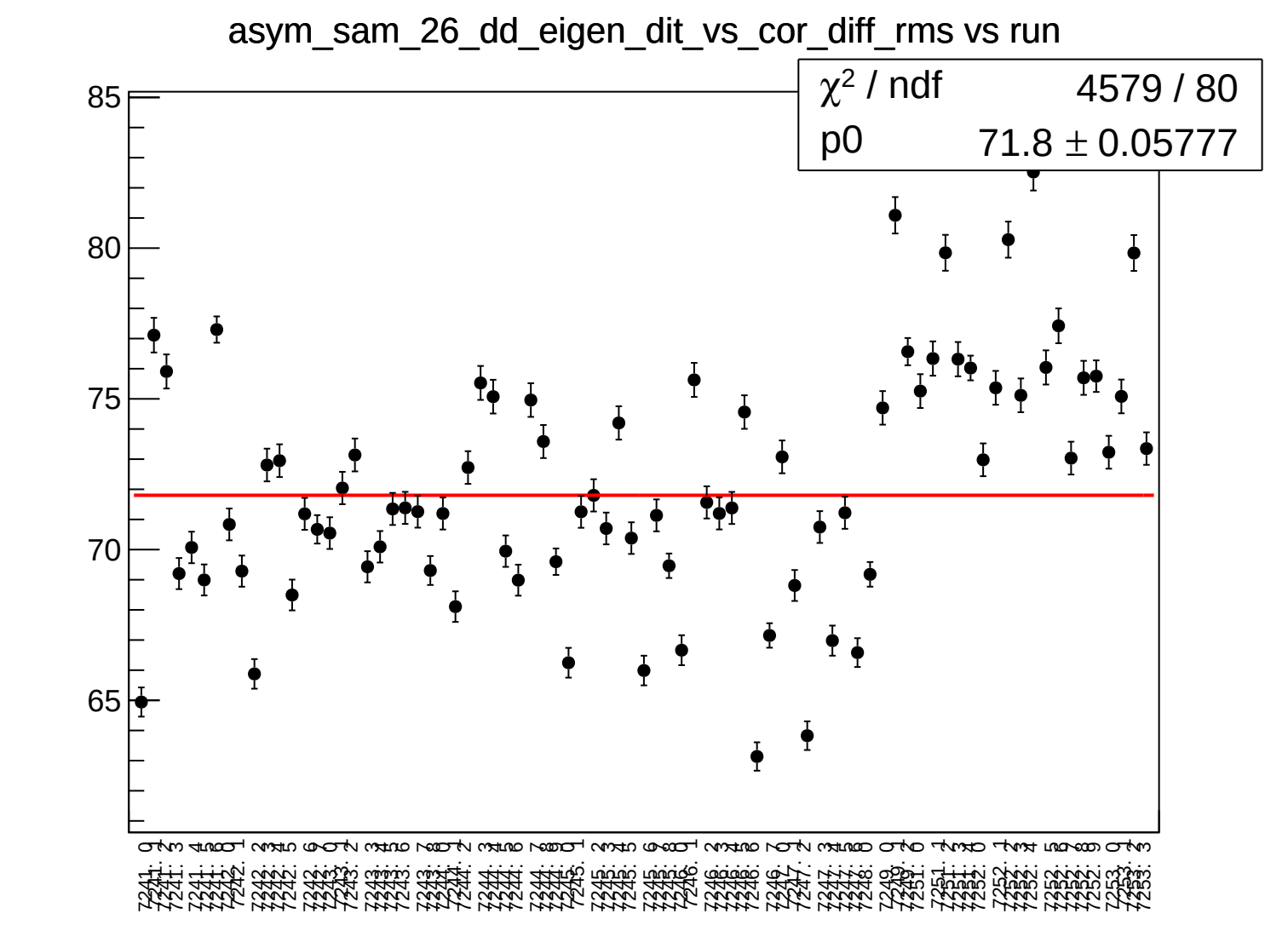

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4581 / 80
p0 71.8 ± 0.05777
85
80
75
70
65

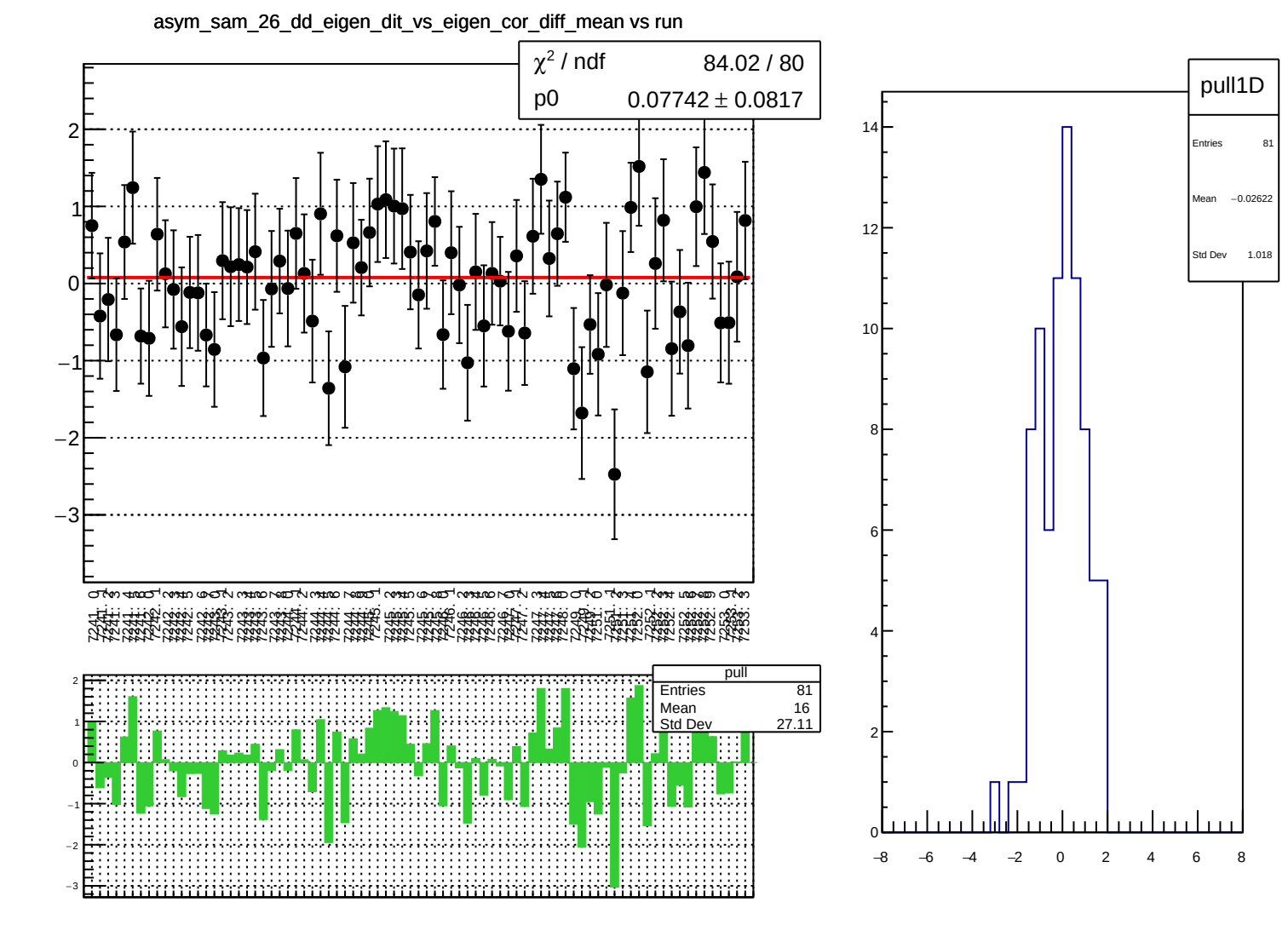

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.42 / 80
p0 −4.094e−06 ± 6.967e−06
pull
Entries 81
Mean −71.32
Std Dev 0

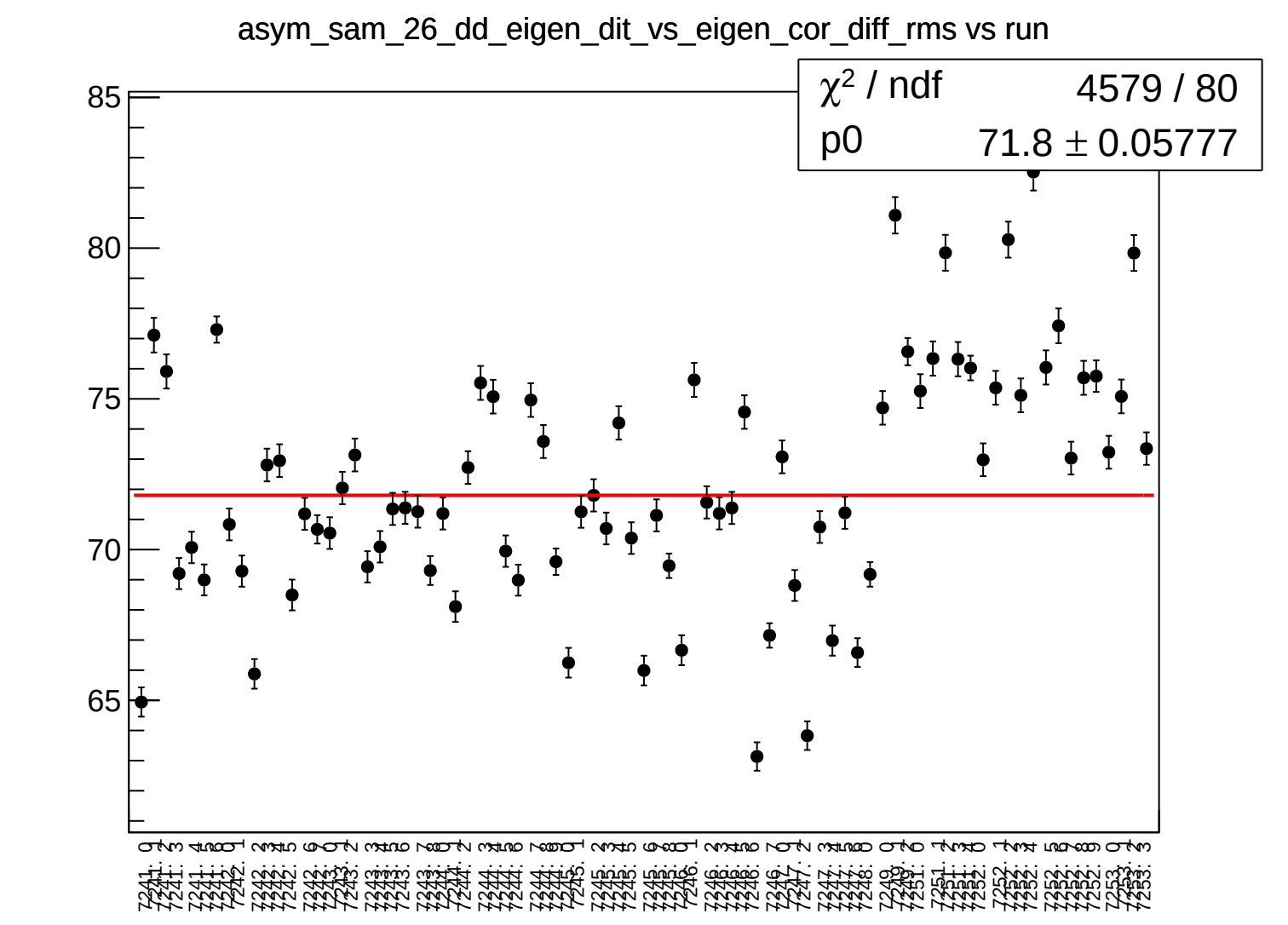

pull1D
Entries 81
Mean −0.03336
Std Dev 1.085

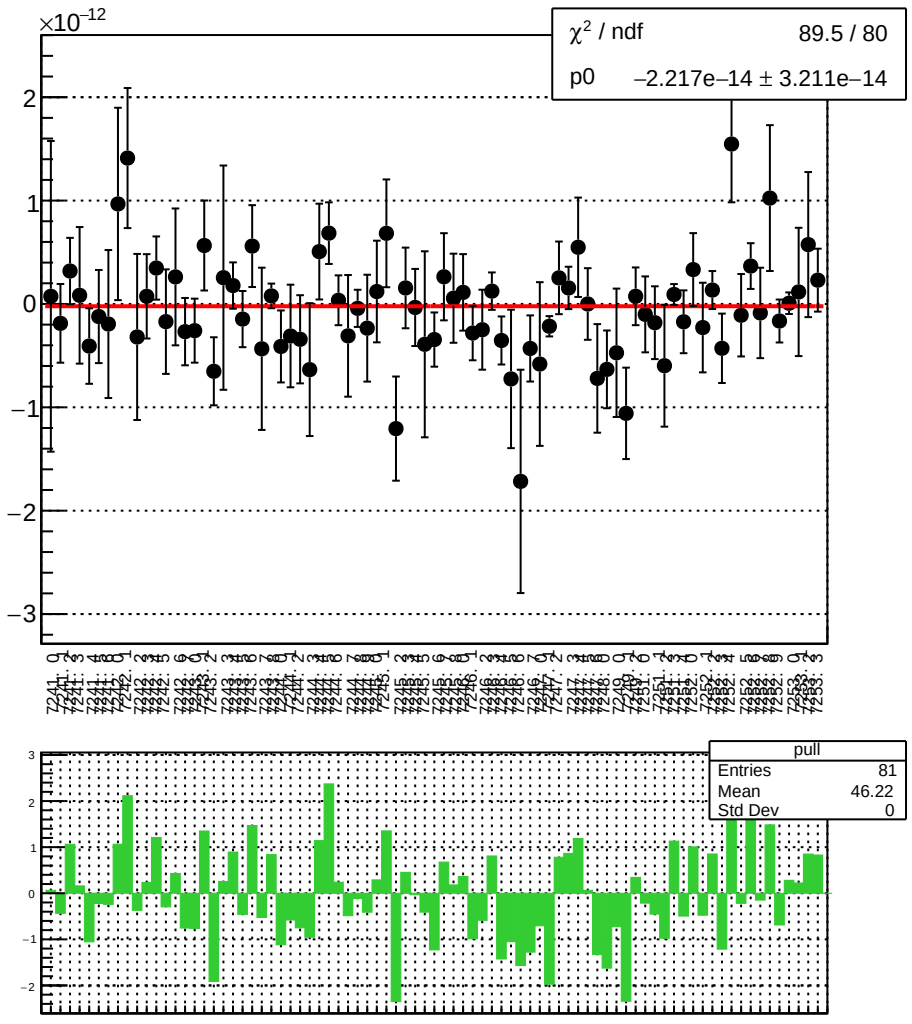

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.864e+04 / 80
p0 0.005995 ± 4.927e−06
0.009
0.008
0.007
0.006
0.005
0.004

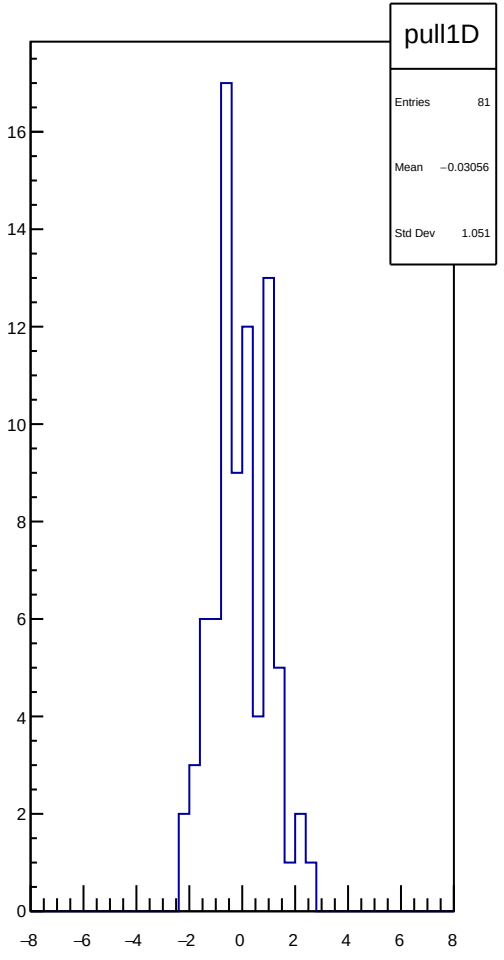

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.02 / 80
p0 0.07742 ± 0.0817
pull
Entries 81
Mean 16
Std Dev 27.11
pull1D
Entries 81
Mean −0.02622
Std Dev 1.018

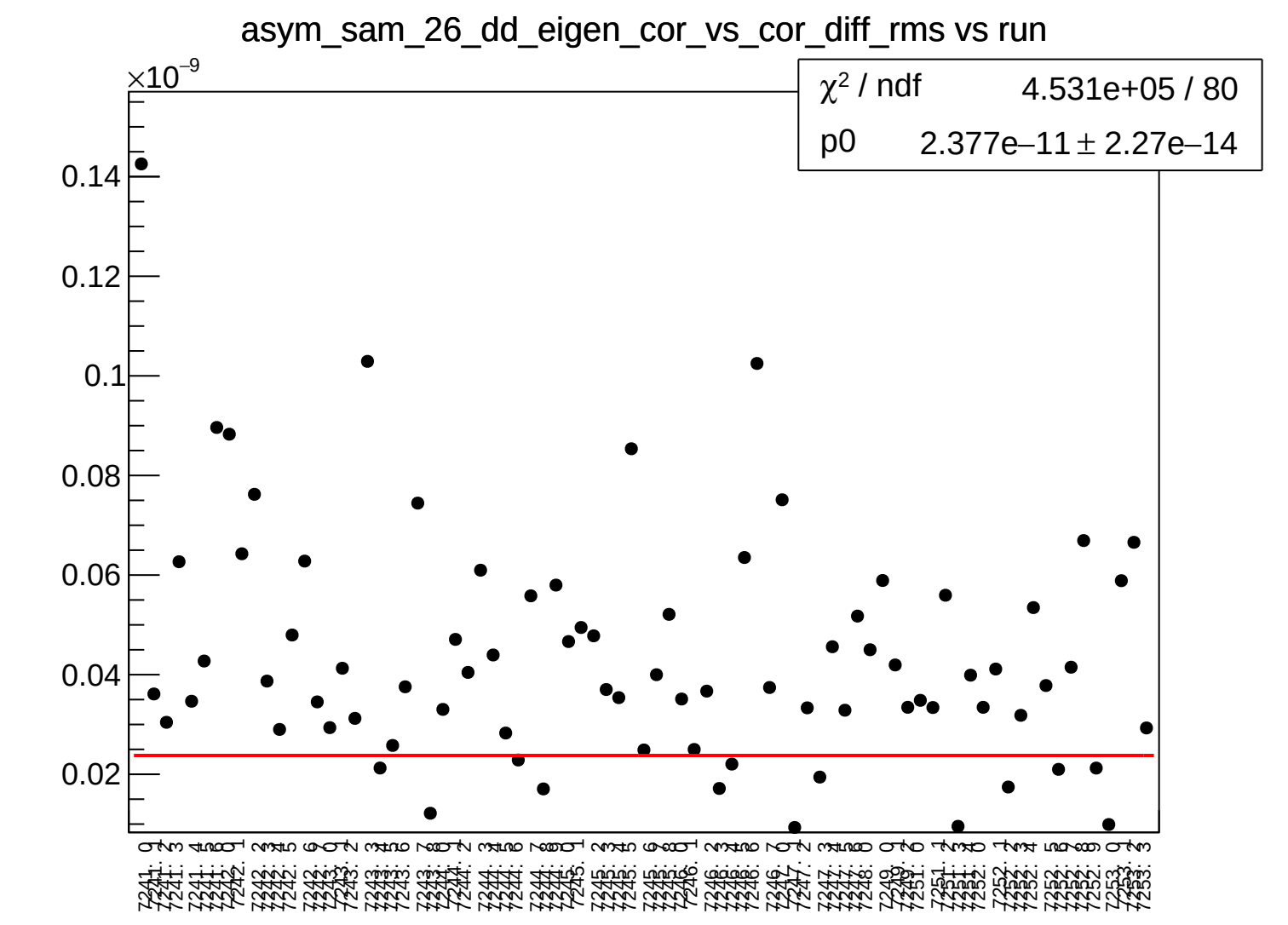

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4579 / 80
p0 71.8 ± 0.05777
85
80
75
70
65

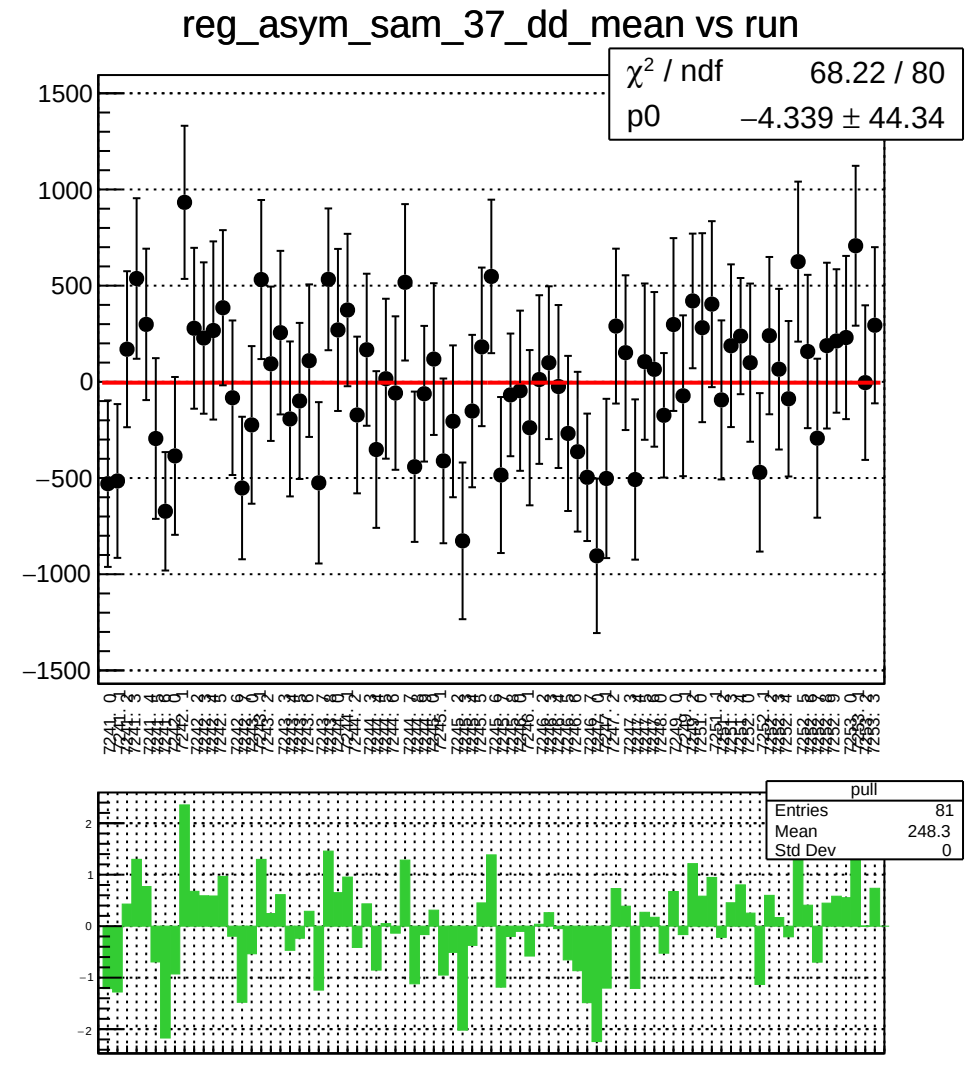

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.02 / 80
p0 0.07742 ± 0.0817
pull
Entries 81
Mean 16
Std Dev 27.11
pull1D
Entries 81
Mean −0.02622
Std Dev 1.018

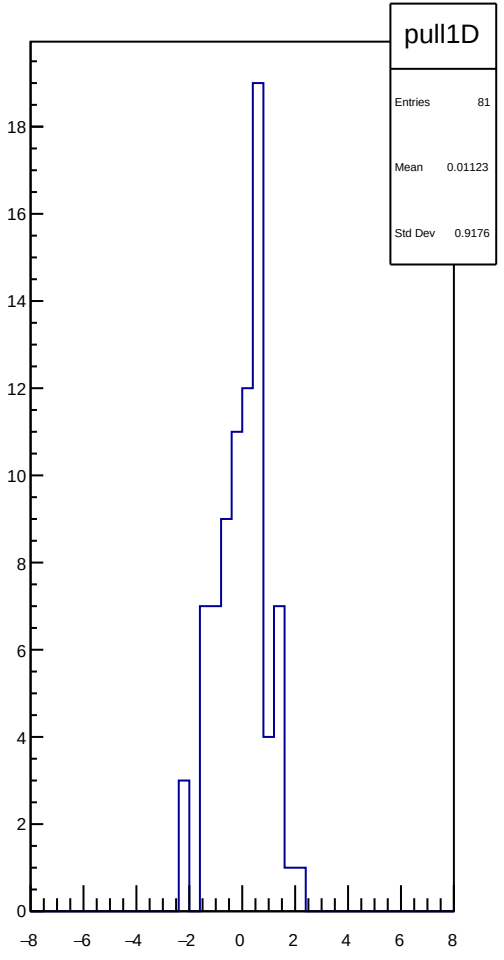

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4579 / 80
p0 71.8 ± 0.05777
85
80
75
70
65

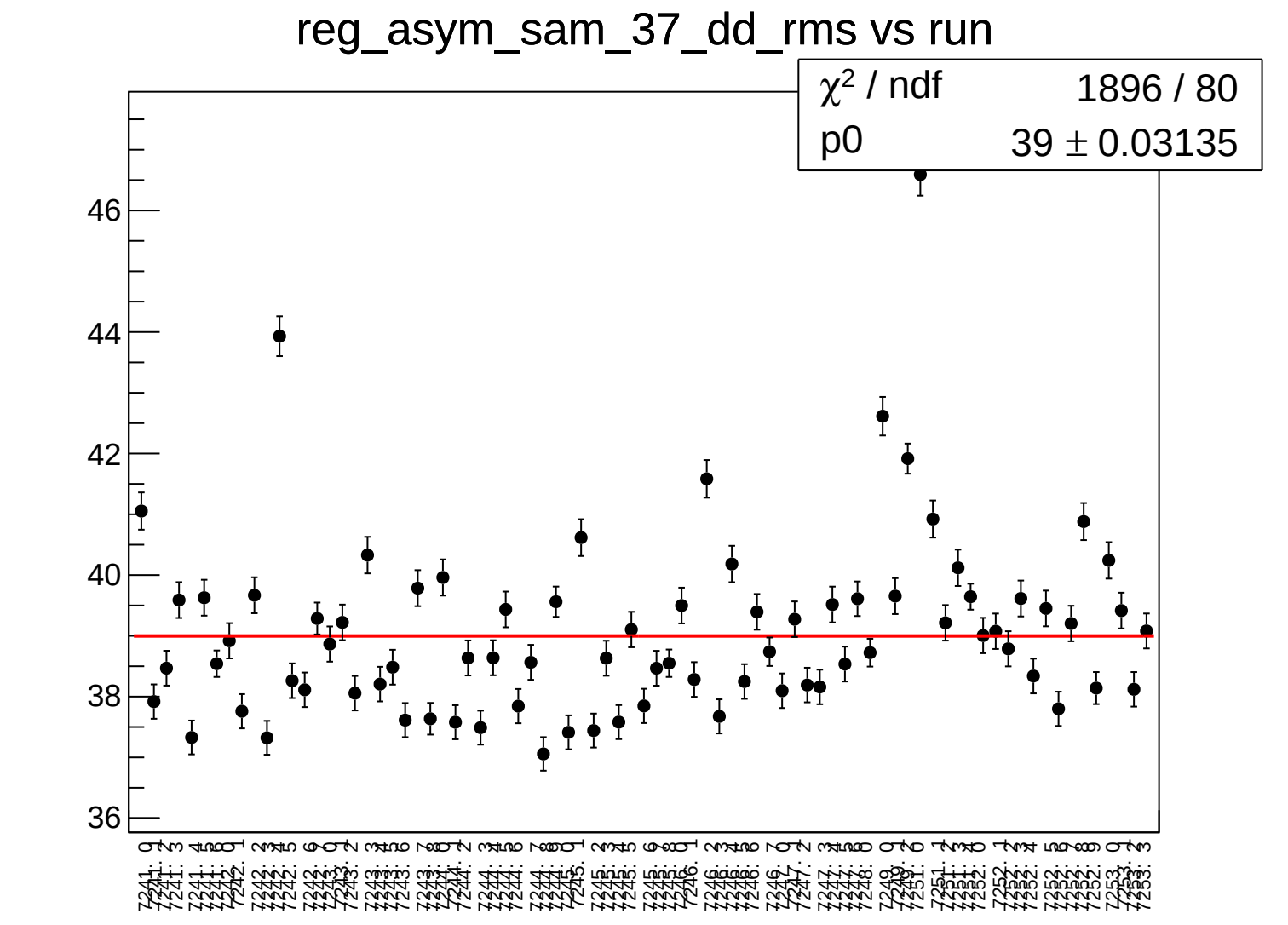

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.5 / 80
p0 −2.217e−14 ± 3.211e−14
pull
Entries 81
Mean 46.22
Std Dev 0

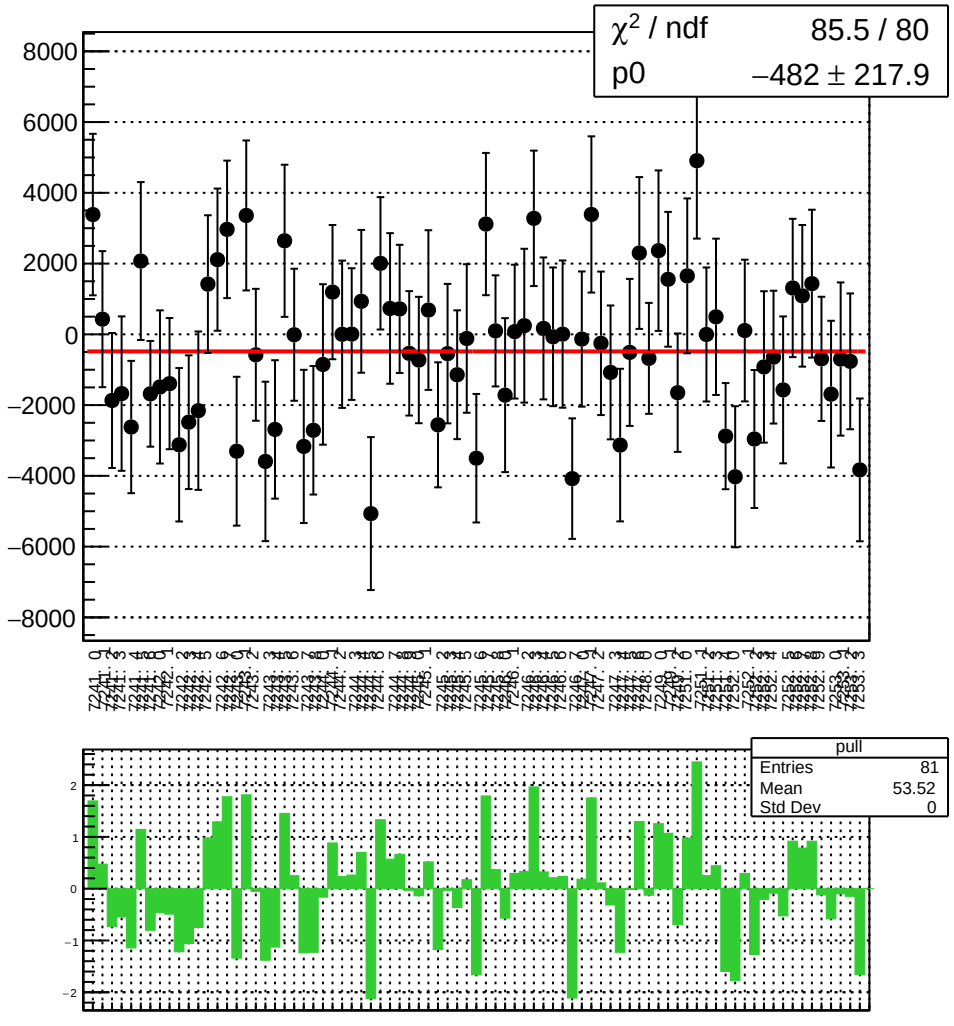

pull1D
Entries 81
Mean −0.03056
Std Dev 1.051

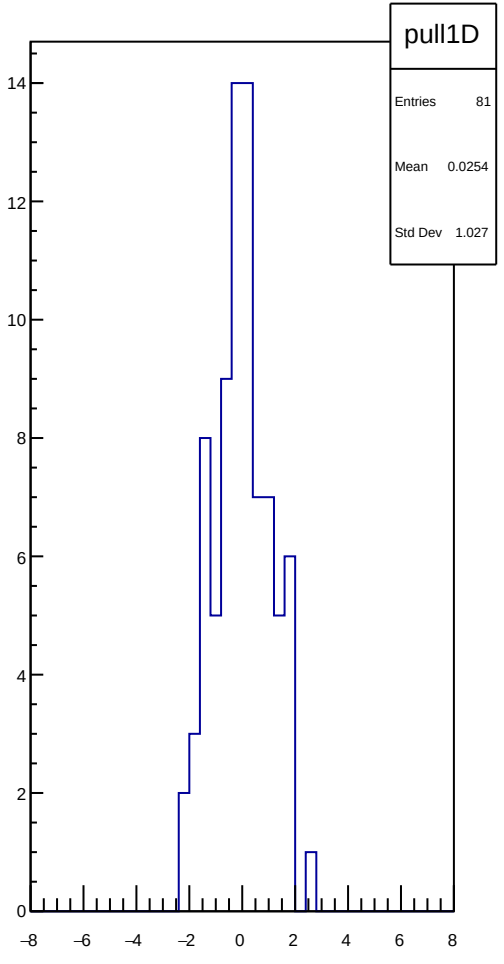

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.531e+05 / 80
p0 2.377e−11 ± 2.27e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

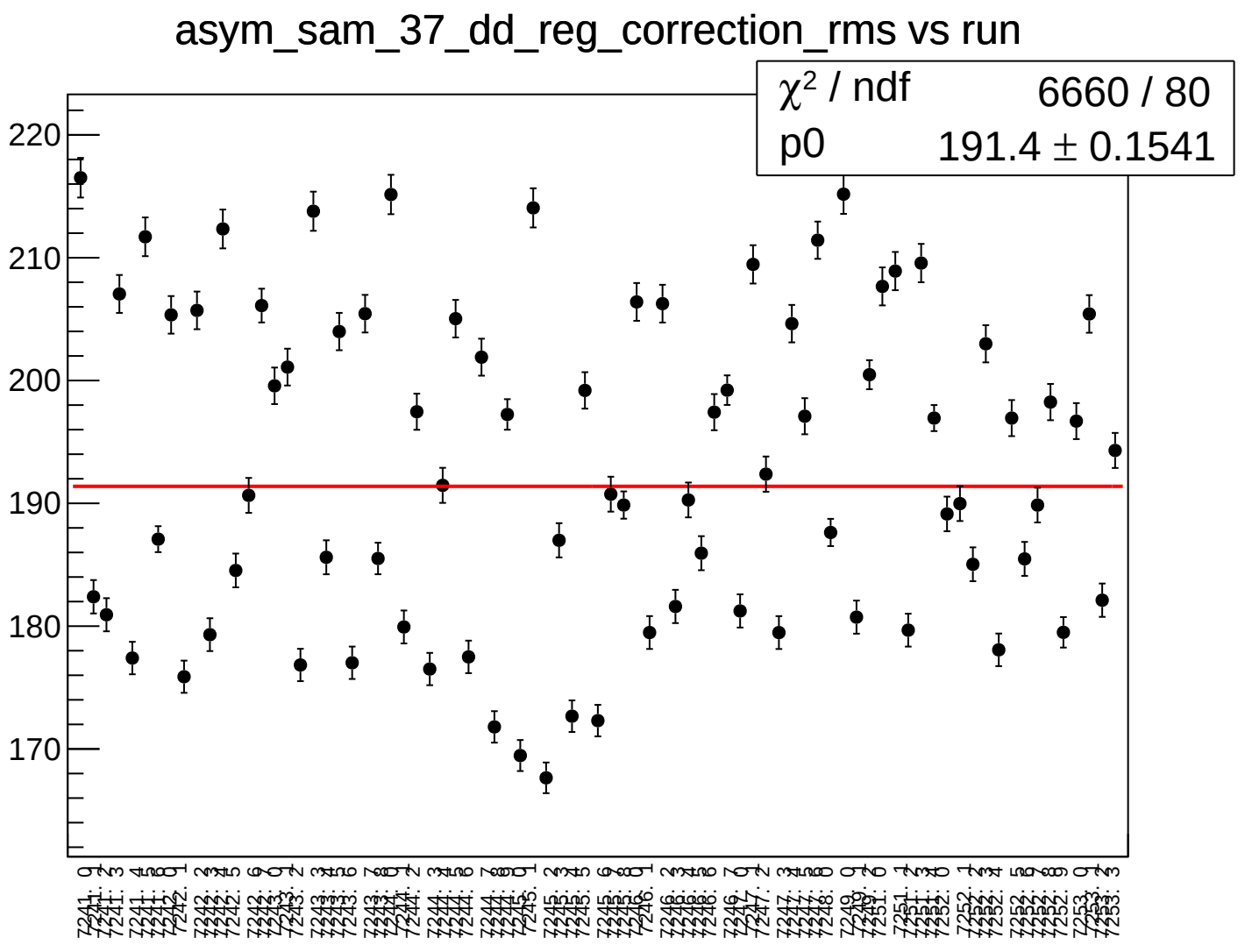

reg_asym_sam_37_dd_mean vs run
χ² / ndf 68.22 / 80
p0 −4.339 ± 44.34
pull
Entries 81
Mean 248.3
Std Dev 0

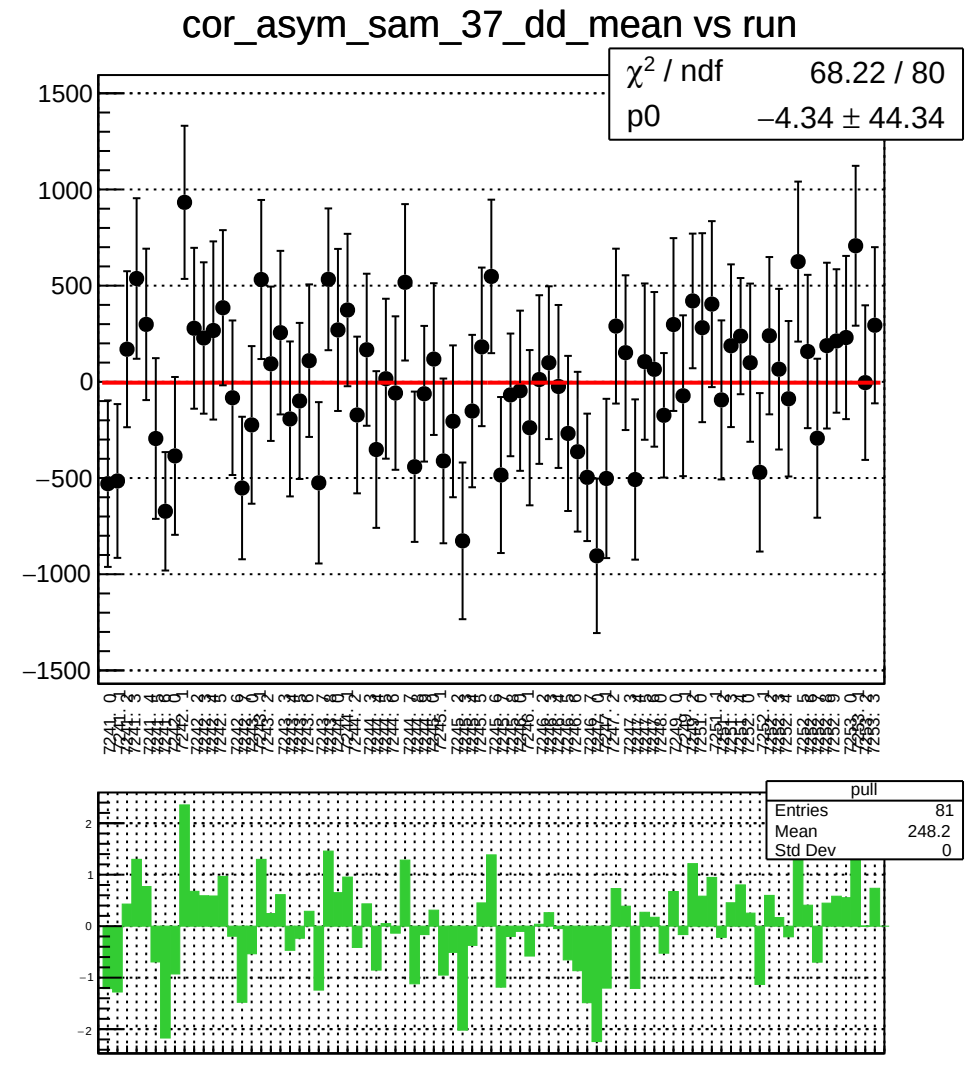

pull1D
Entries 81
Mean 0.01123
Std Dev 0.9176

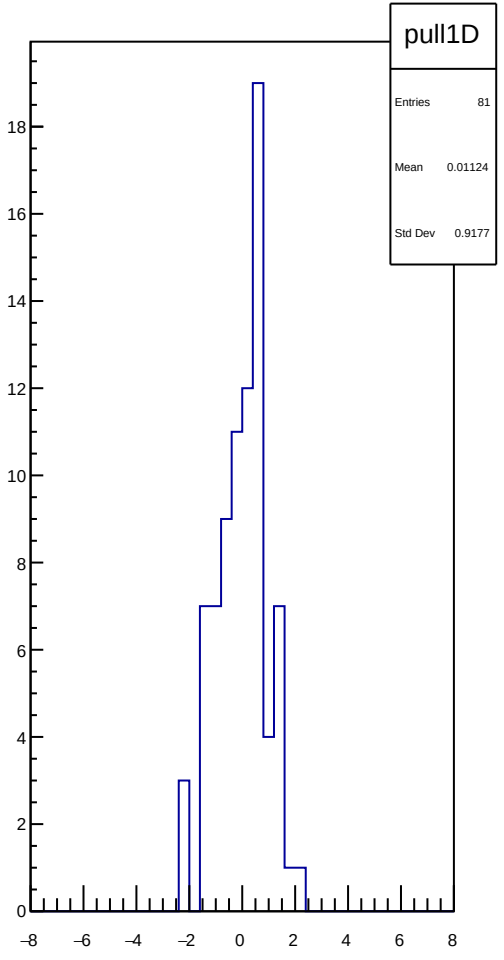

reg_asym_sam_37_dd_rms vs run
χ² / ndf 1896 / 80
p0 39 ± 0.03135
46
44
42
40
38
36

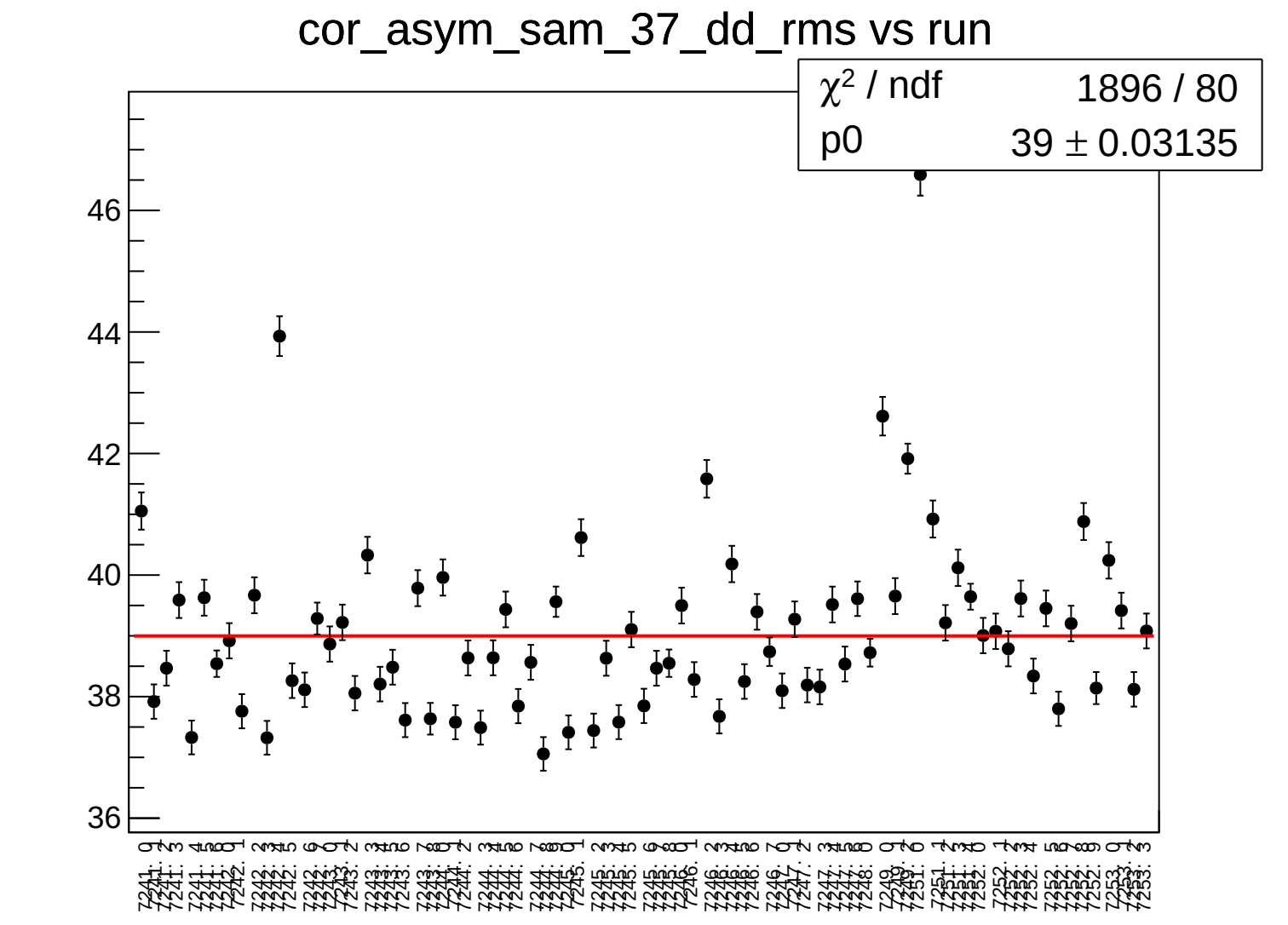

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 85.5 / 80
p0 −482 ± 217.9
pull
Entries 81
Mean 53.52
Std Dev 0

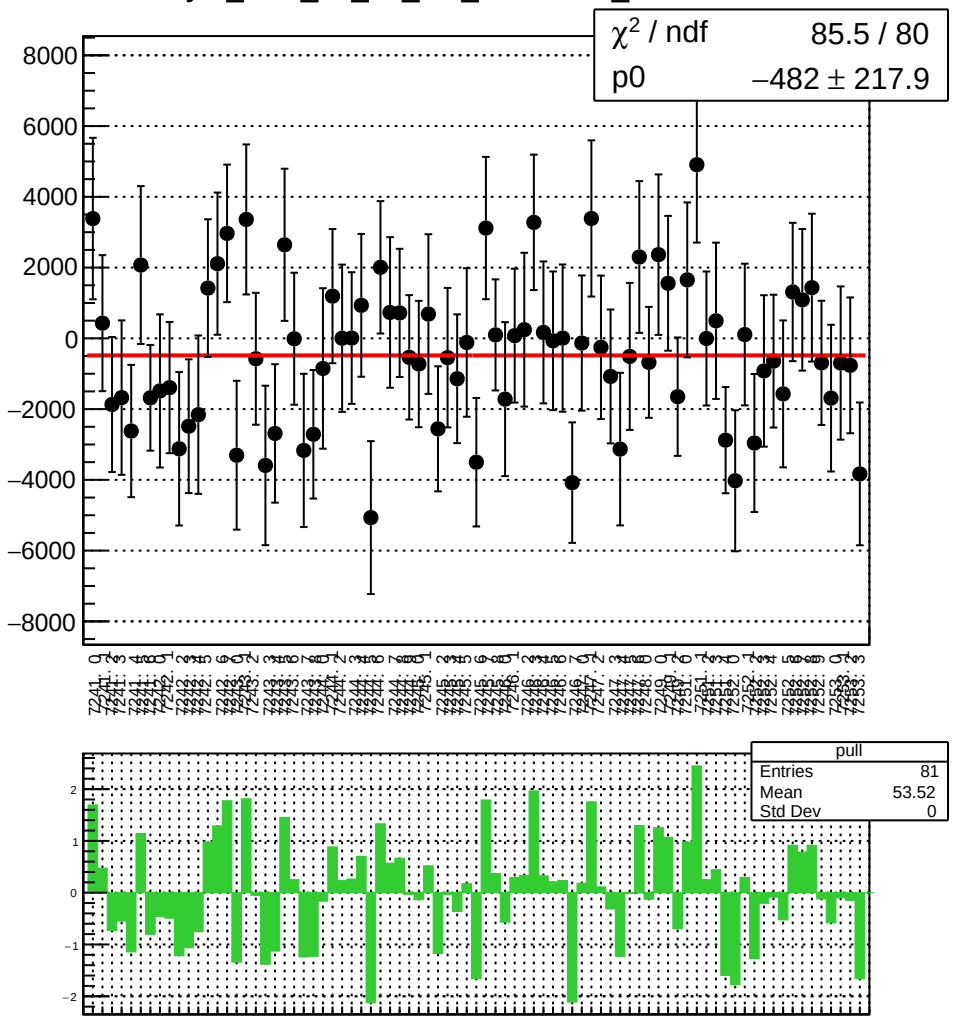

pull1D
Entries 81
Mean 0.0254
Std Dev 1.027

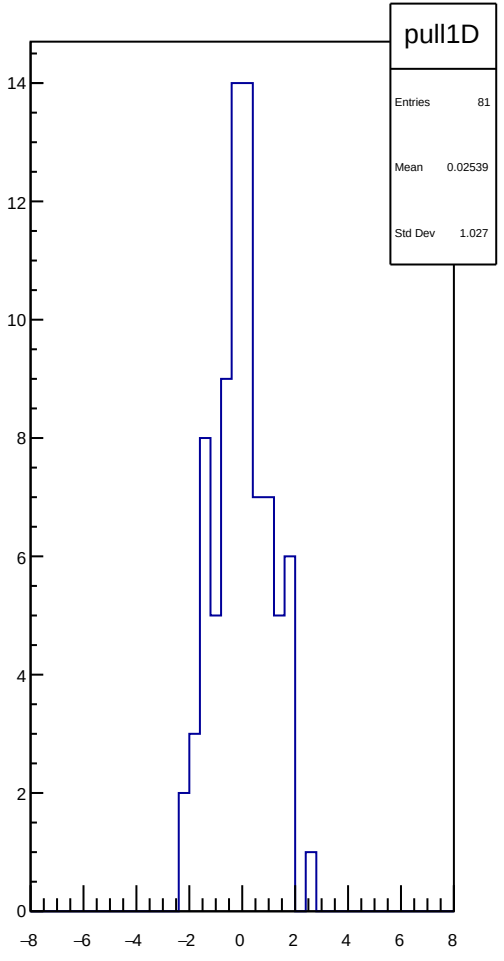

asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 6660 / 80
p0 191.4 ± 0.1541
220
210
200
190
180
170

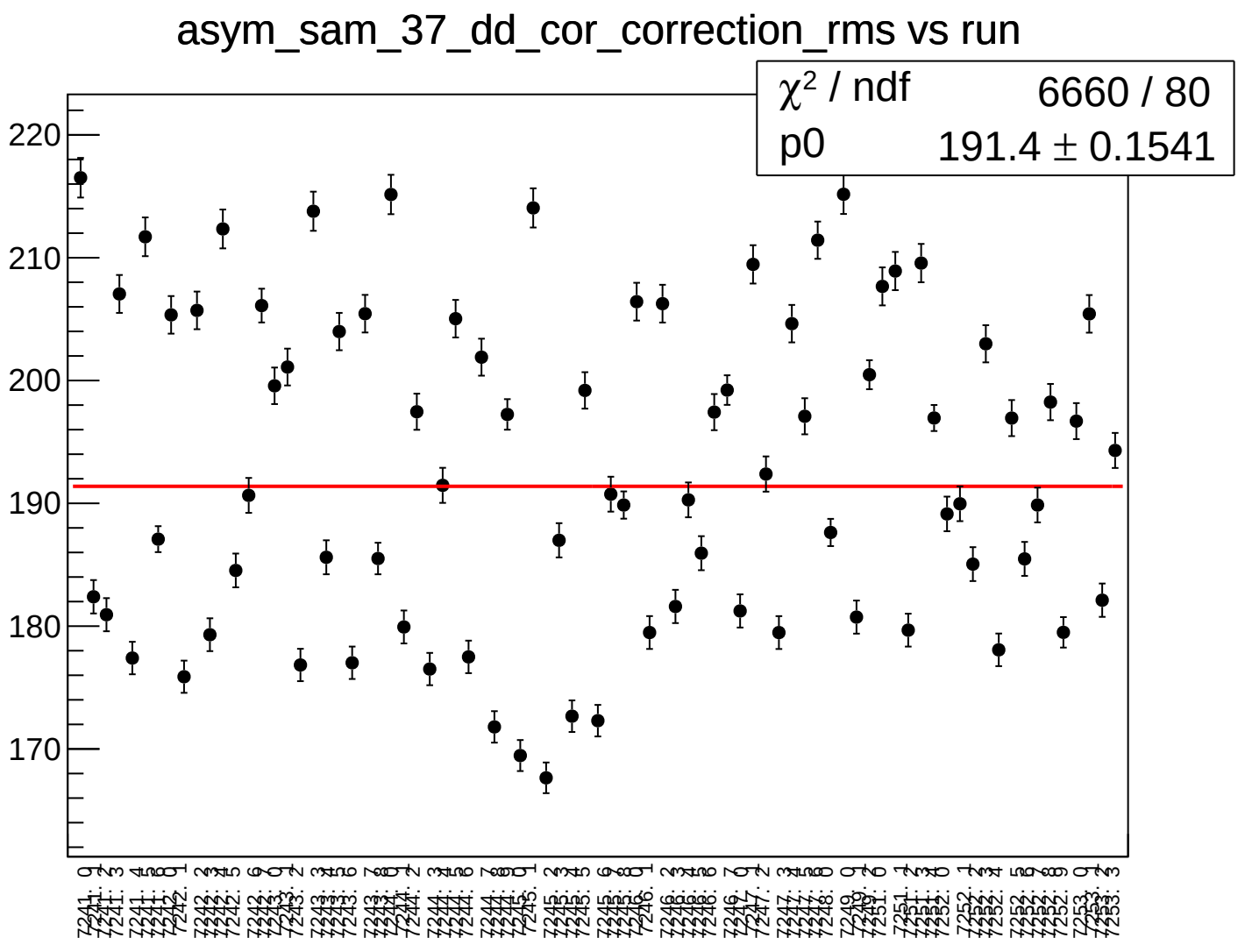

cor_asym_sam_37_dd_mean vs run
χ² / ndf 68.22 / 80
p0 −4.34 ± 44.34
pull
Entries 81
Mean 248.2
Std Dev 0

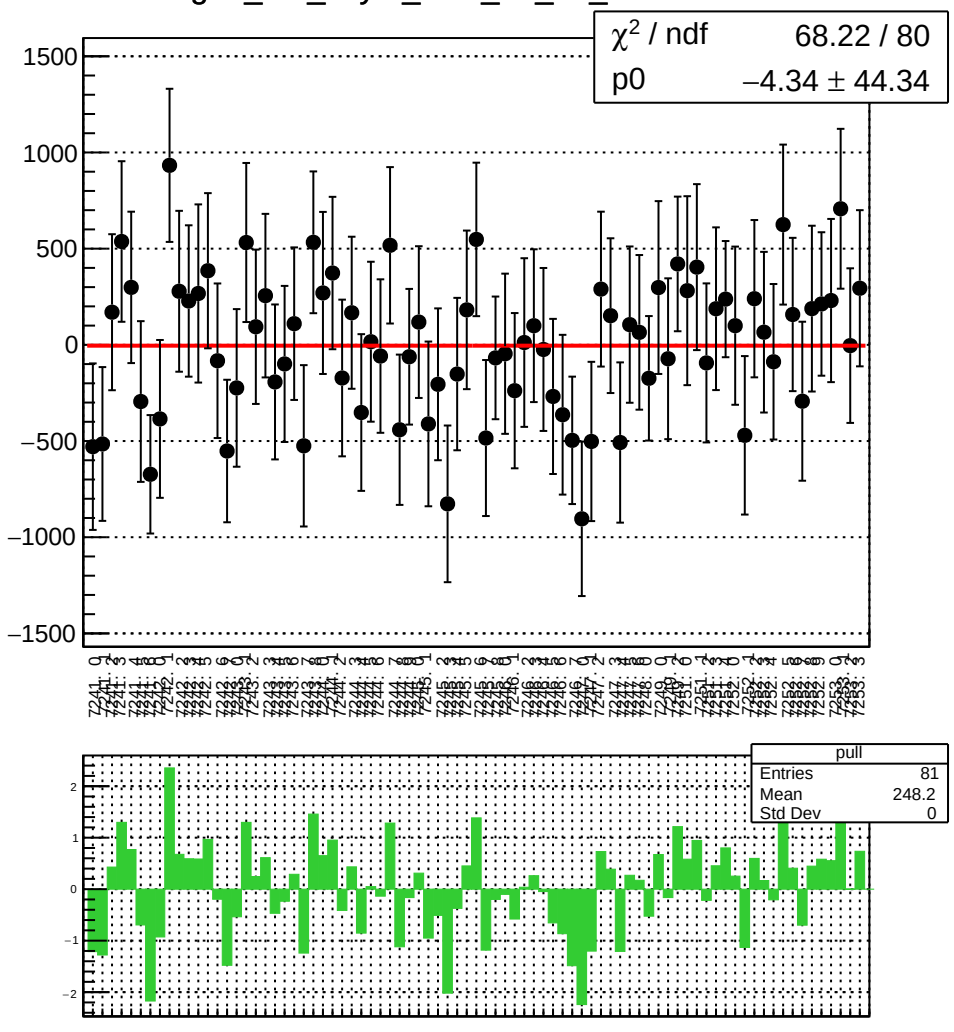

pull1D
Entries 81
Mean 0.01124
Std Dev 0.9177

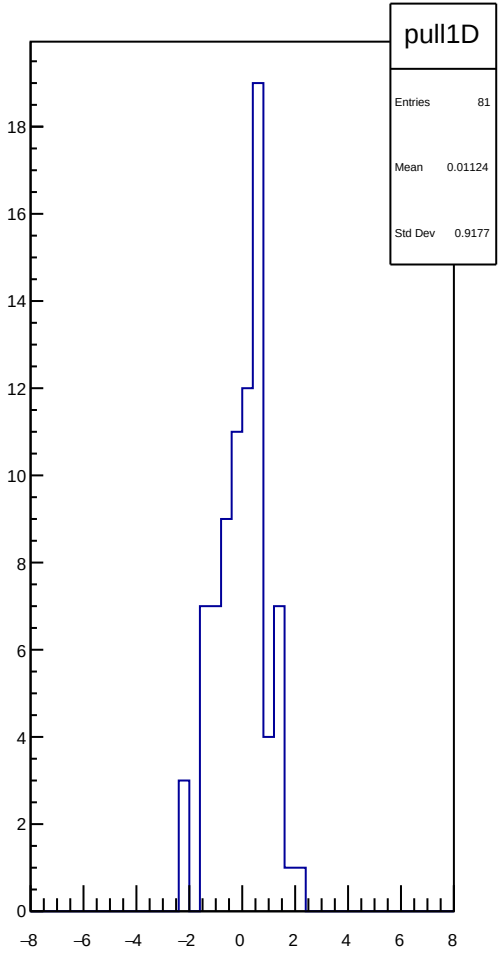

cor_asym_sam_37_dd_rms vs run
χ² / ndf 1896 / 80
p0 39 ± 0.03135
46
44
42
40
38
36

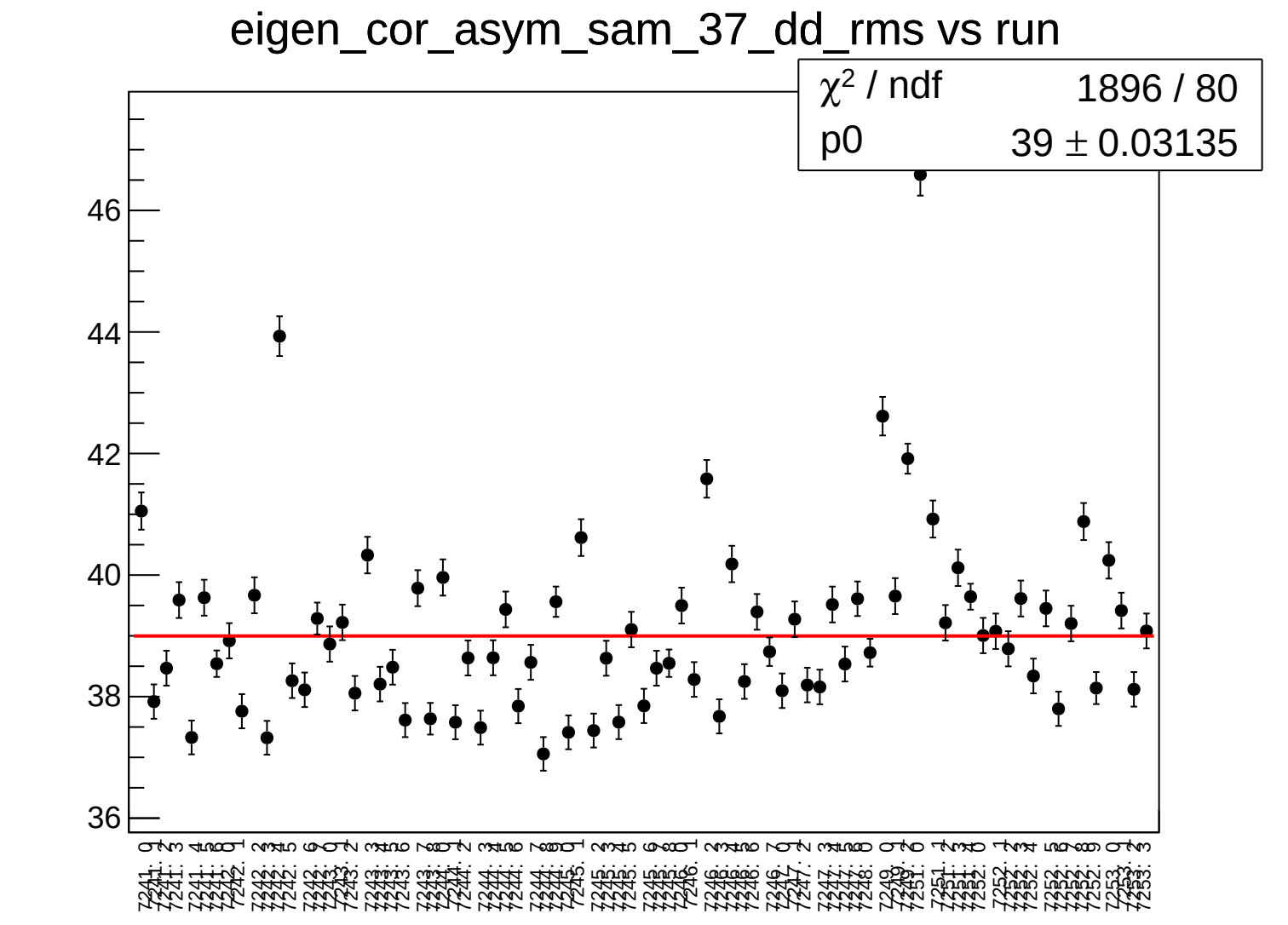

asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 85.5 / 80
p0 −482 ± 217.9
pull
Entries 81
Mean 53.52
Std Dev 0

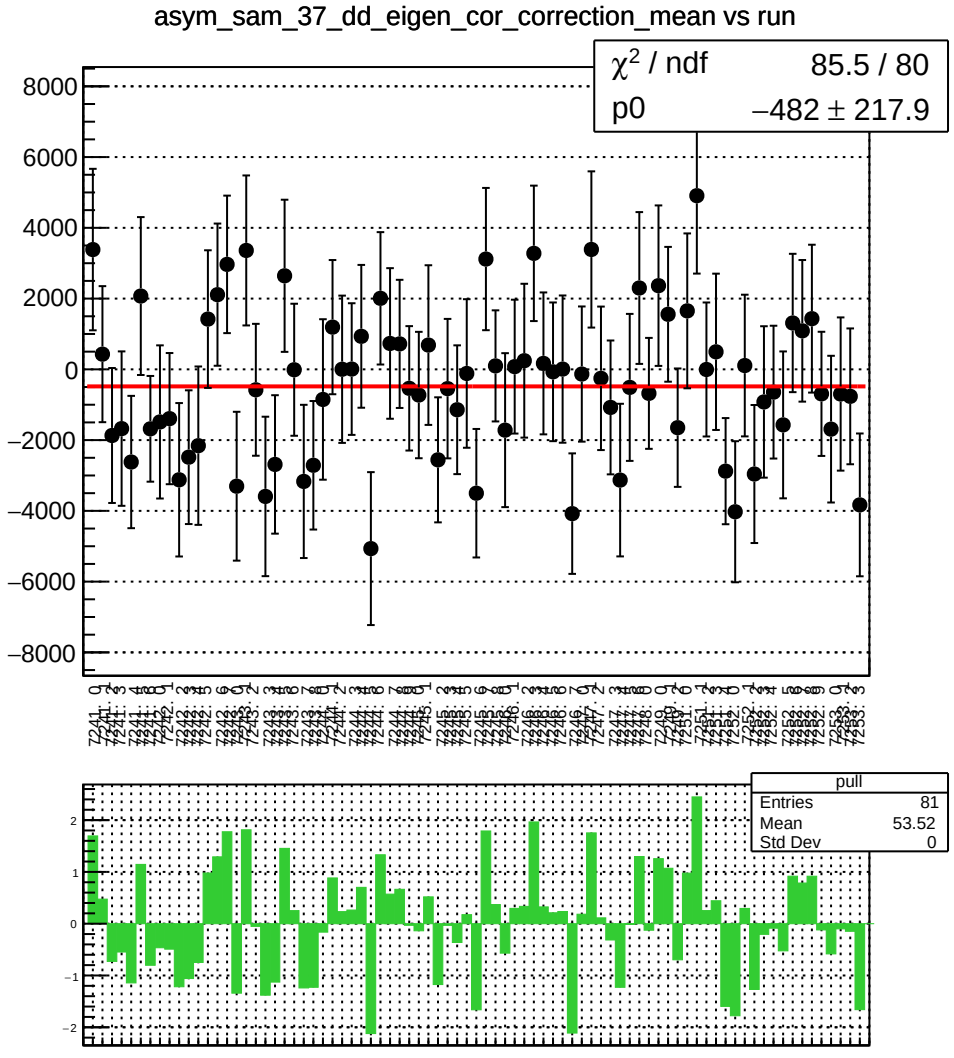

pull1D
Entries 81
Mean 0.02539
Std Dev 1.027

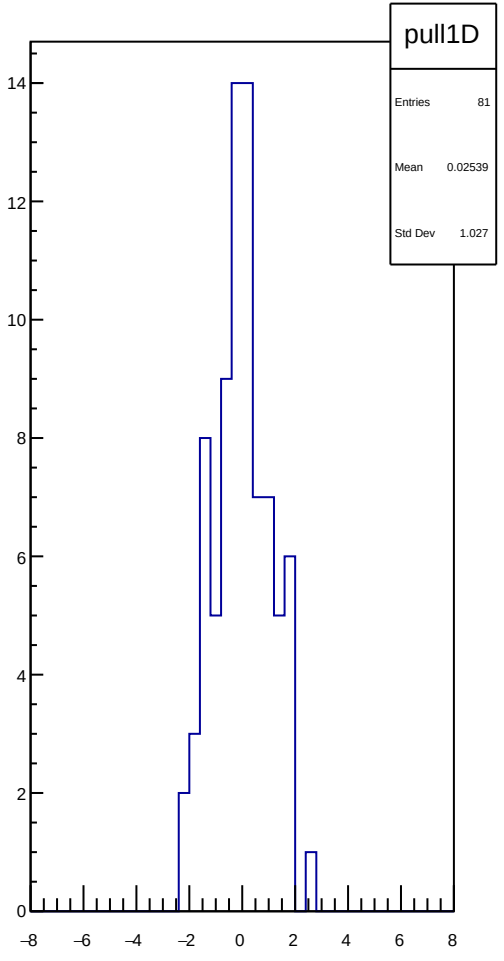

asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 6660 / 80
p0 191.4 ± 0.1541
220
210
200
190
180
170

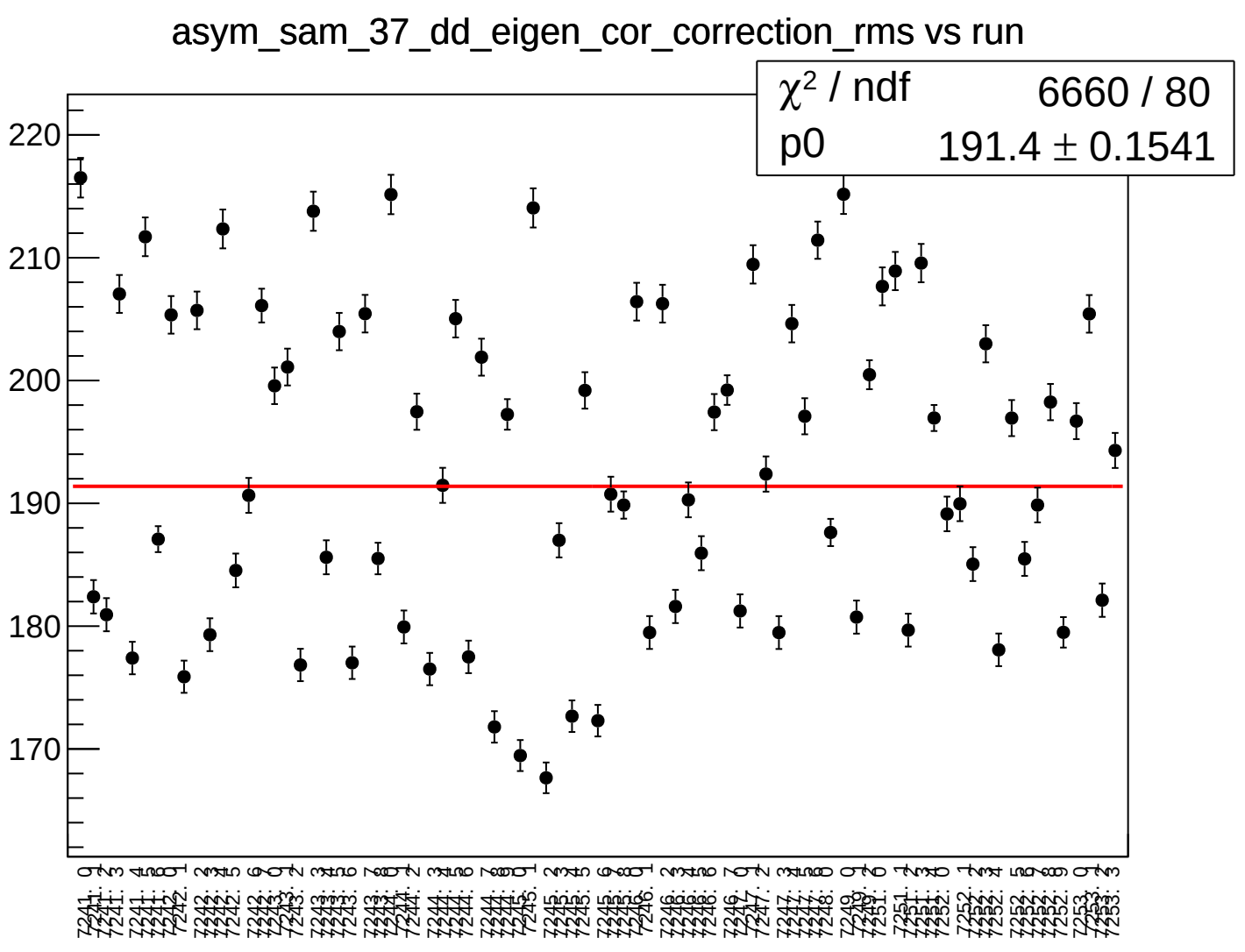

eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 68.22 / 80
p0 −4.34 ± 44.34
pull
Entries 81
Mean 248.2
Std Dev 0

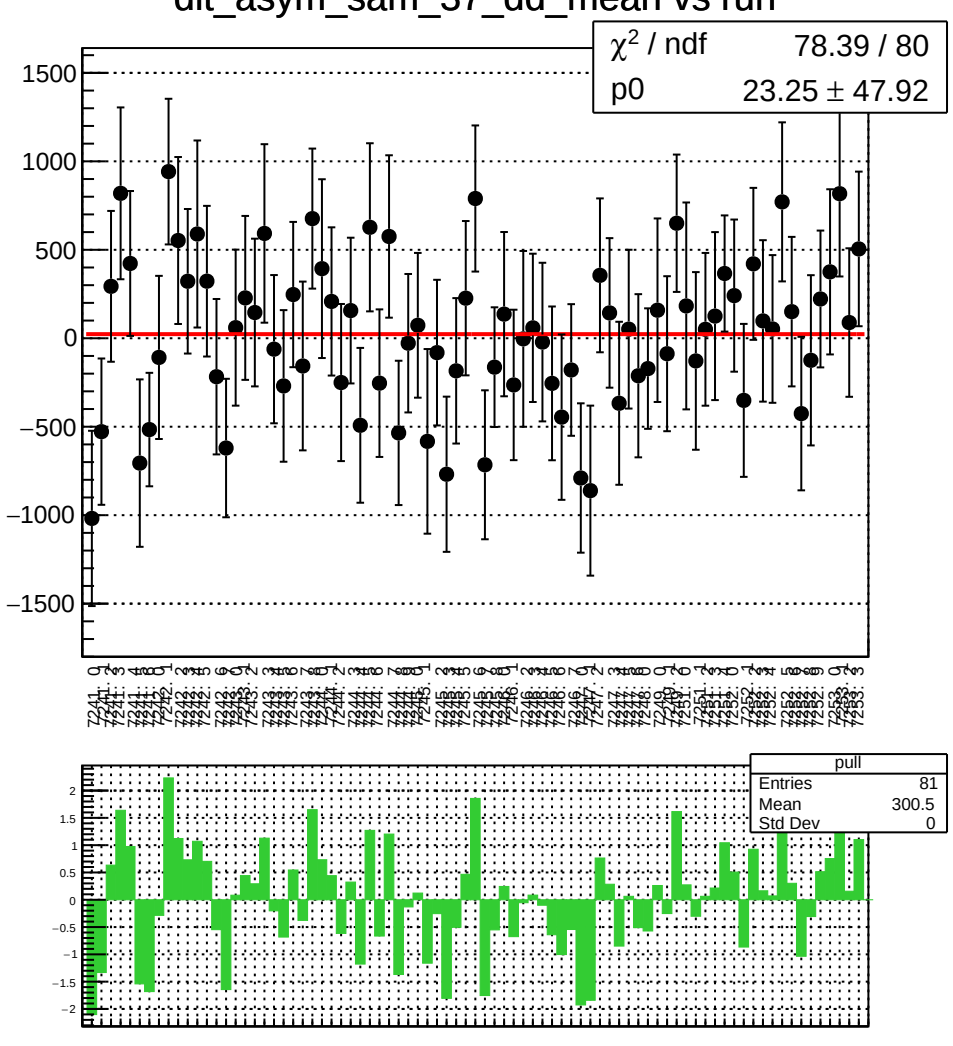

pull1D
Entries 81
Mean 0.01124
Std Dev 0.9177

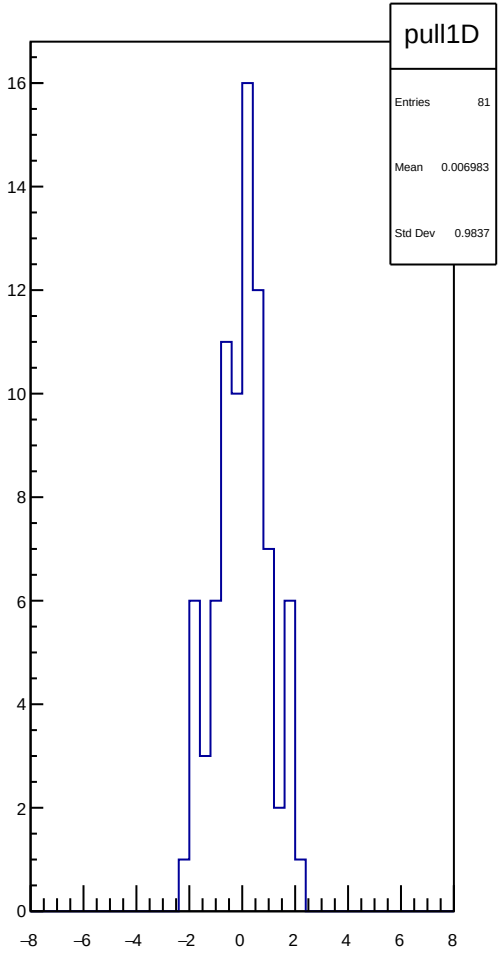

eigen_cor_asym_sam_37_dd_rms vs run
χ² / ndf 1896 / 80
p0 39 ± 0.03135
46
44
42
40
38
36

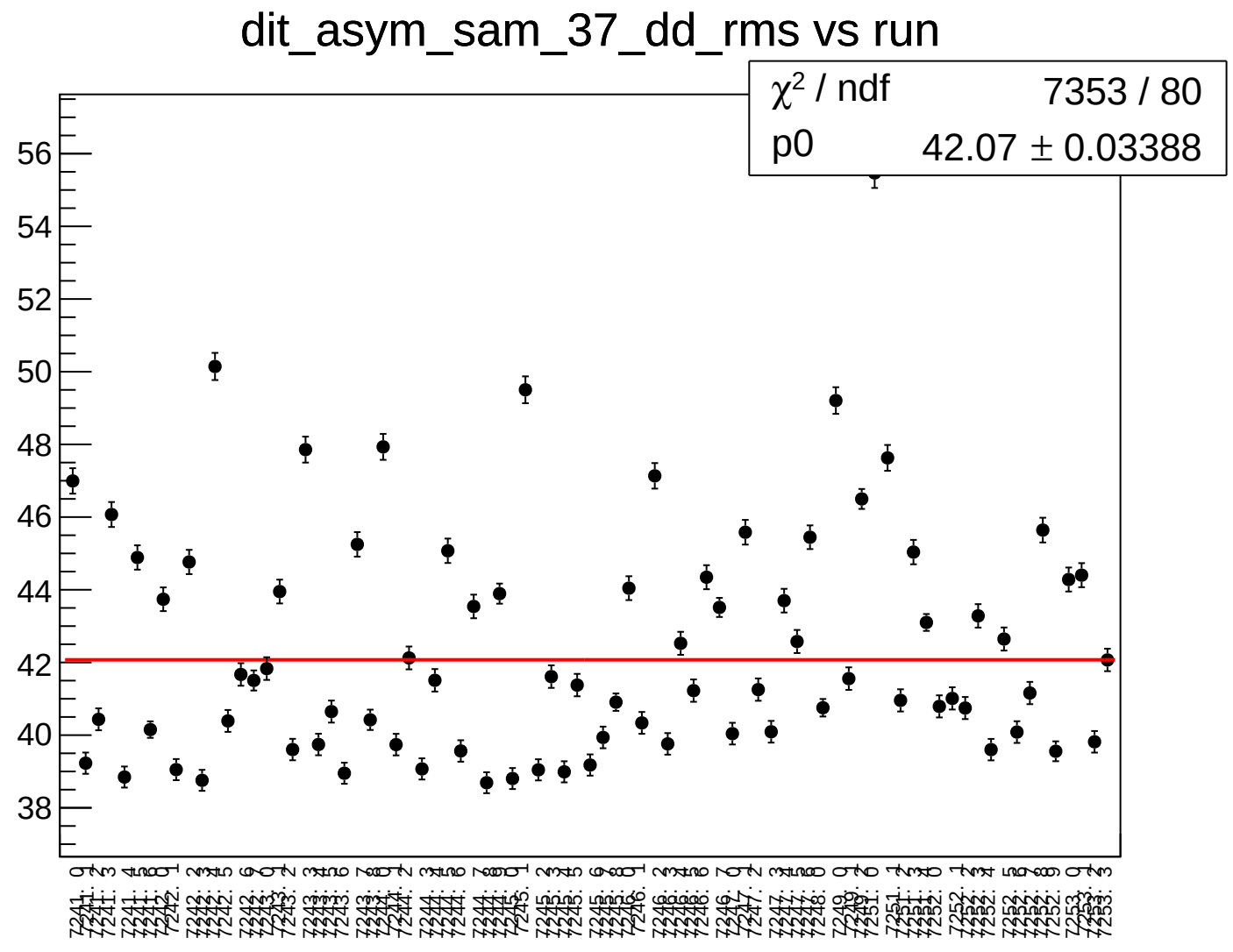

asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 85.5 / 80
p0 −482 ± 217.9
pull
Entries 81
Mean 53.52
Std Dev 0

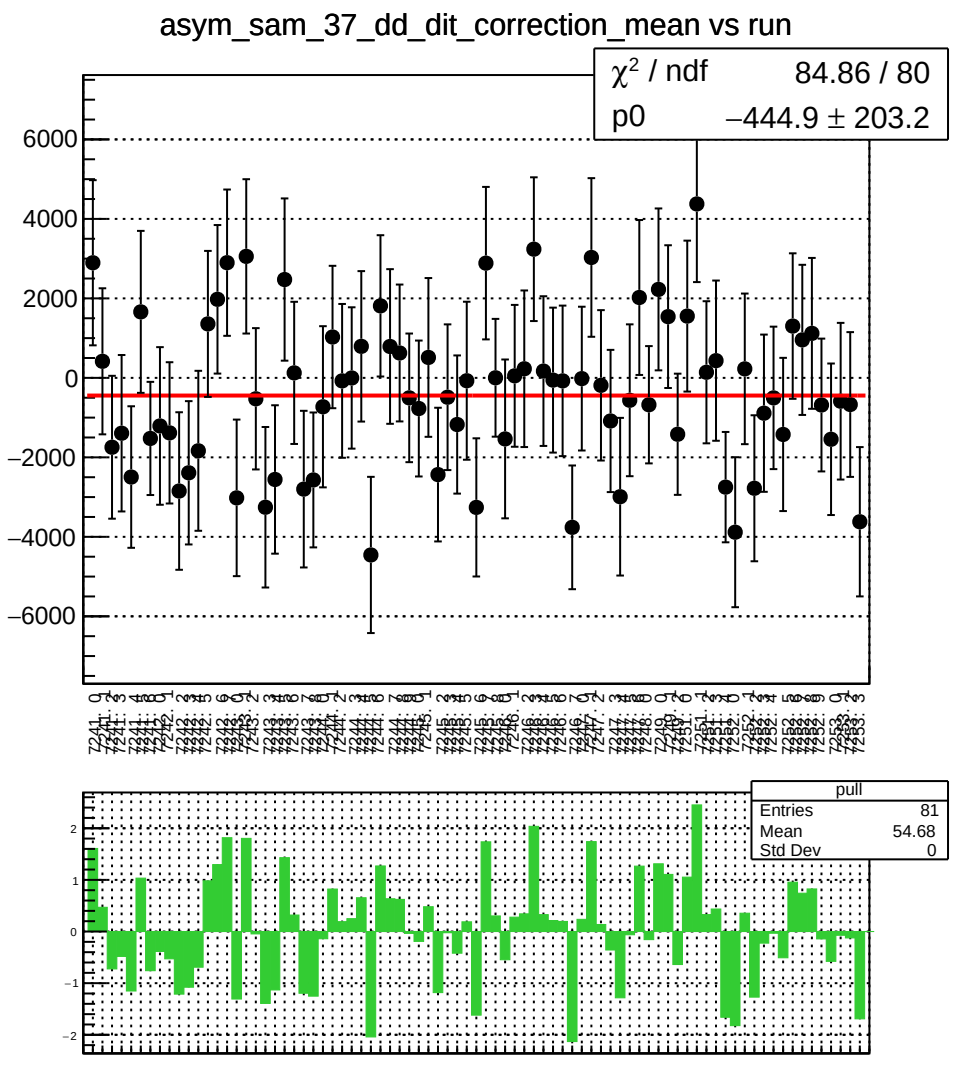

pull1D
Entries 81
Mean 0.02539
Std Dev 1.027

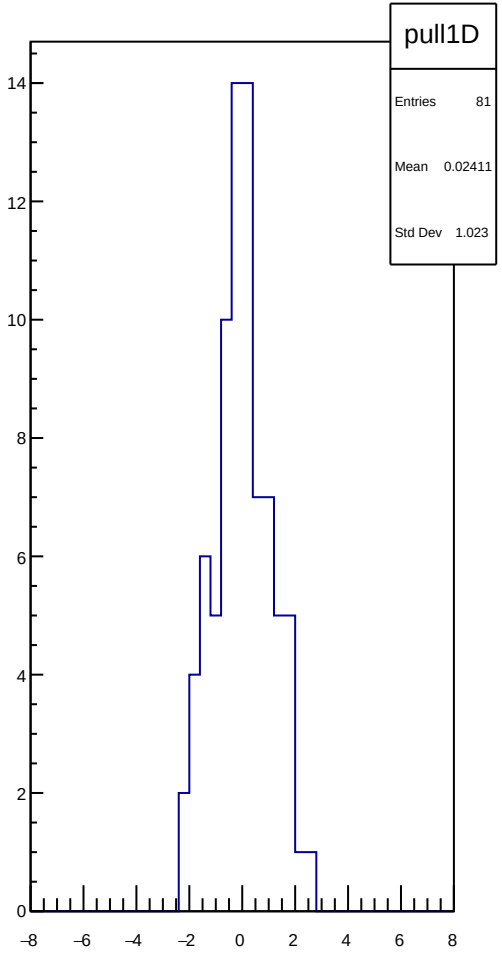

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 6660 / 80
p0 191.4 ± 0.1541
220
210
200
190
180
170

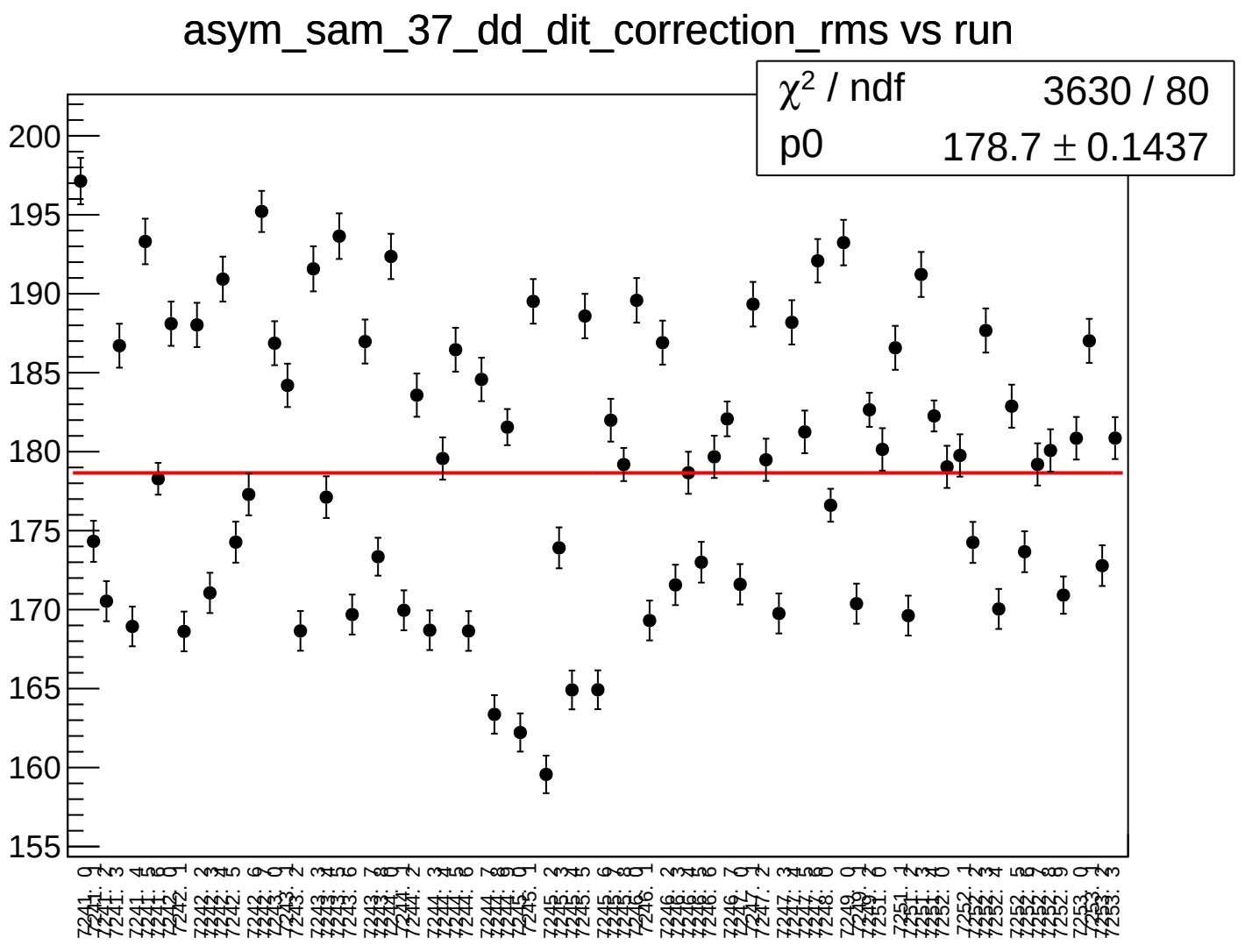

dit_asym_sam_37_dd_mean vs run
χ² / ndf 78.39 / 80
p0 23.25 ± 47.92
pull
Entries 81
Mean 300.5
Std Dev 0

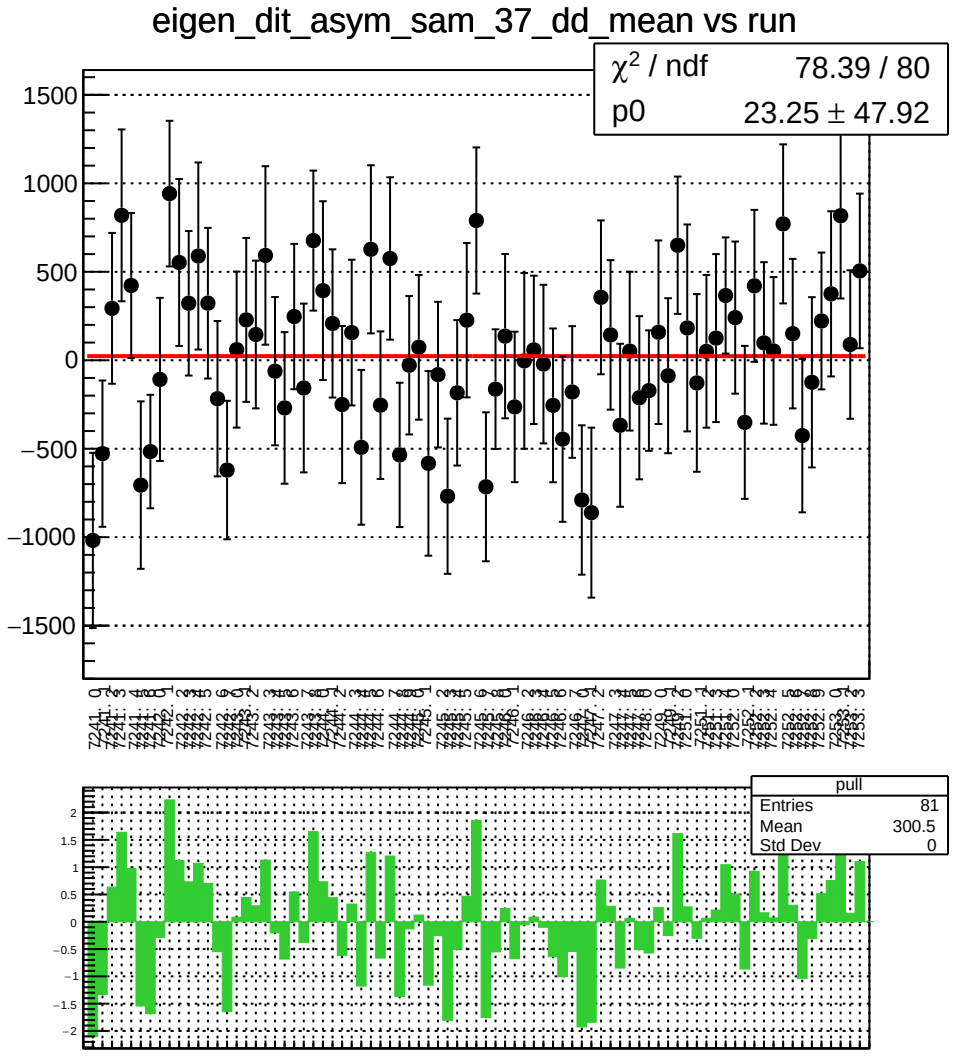

pull1D
Entries 81
Mean 0.006983
Std Dev 0.9837

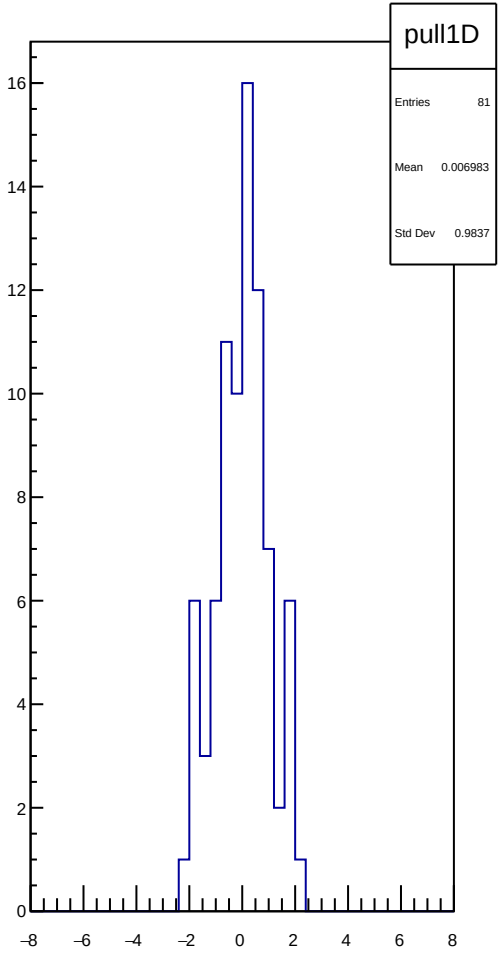

dit_asym_sam_37_dd_rms vs run
χ² / ndf 7353 / 80
p0 42.07 ± 0.03388
56
54
52
50
48
46
44
42
40
38

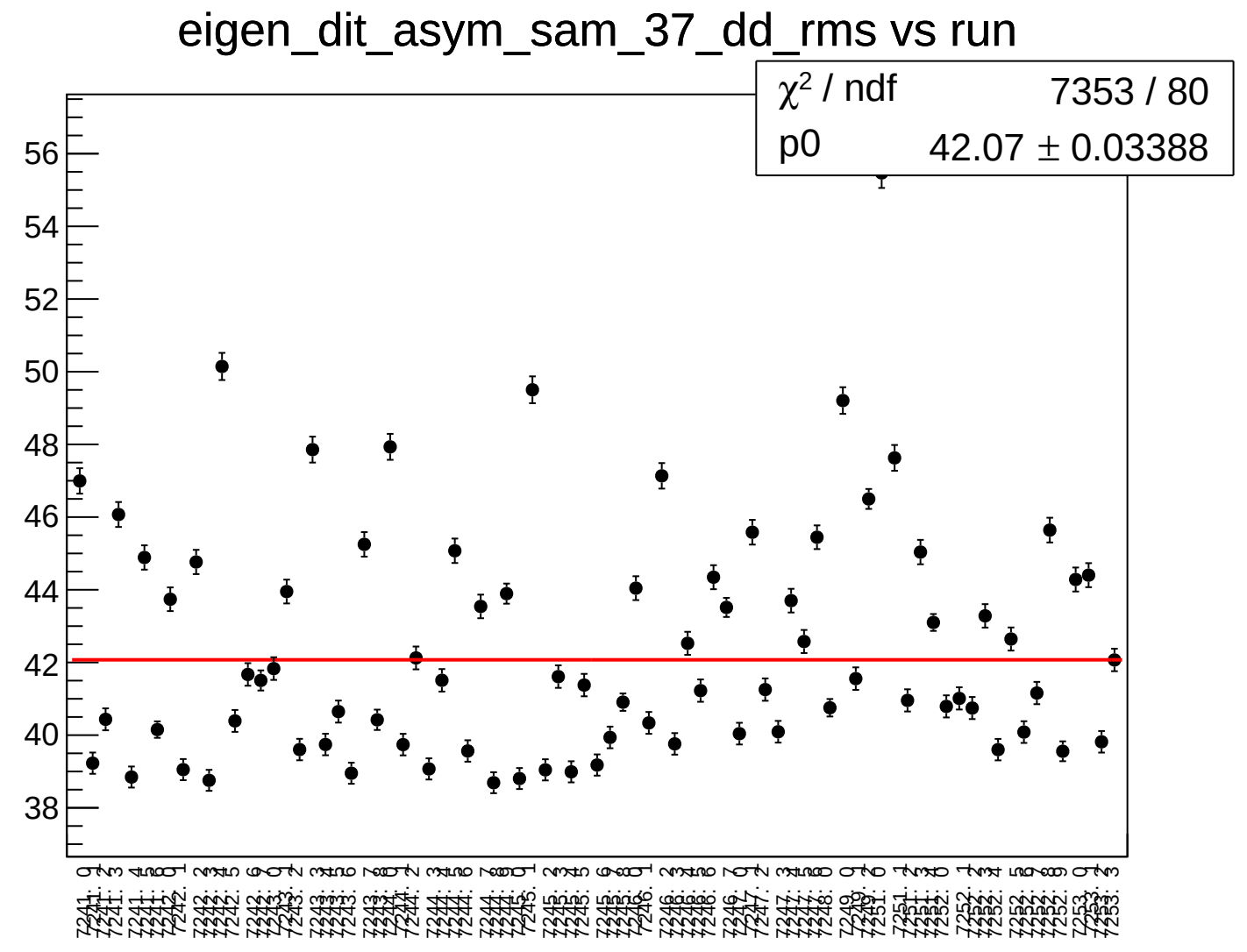

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 84.86 / 80
p0 −444.9 ± 203.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 81
Mean 54.68
Std Dev 0
2
1
0
−1
−2

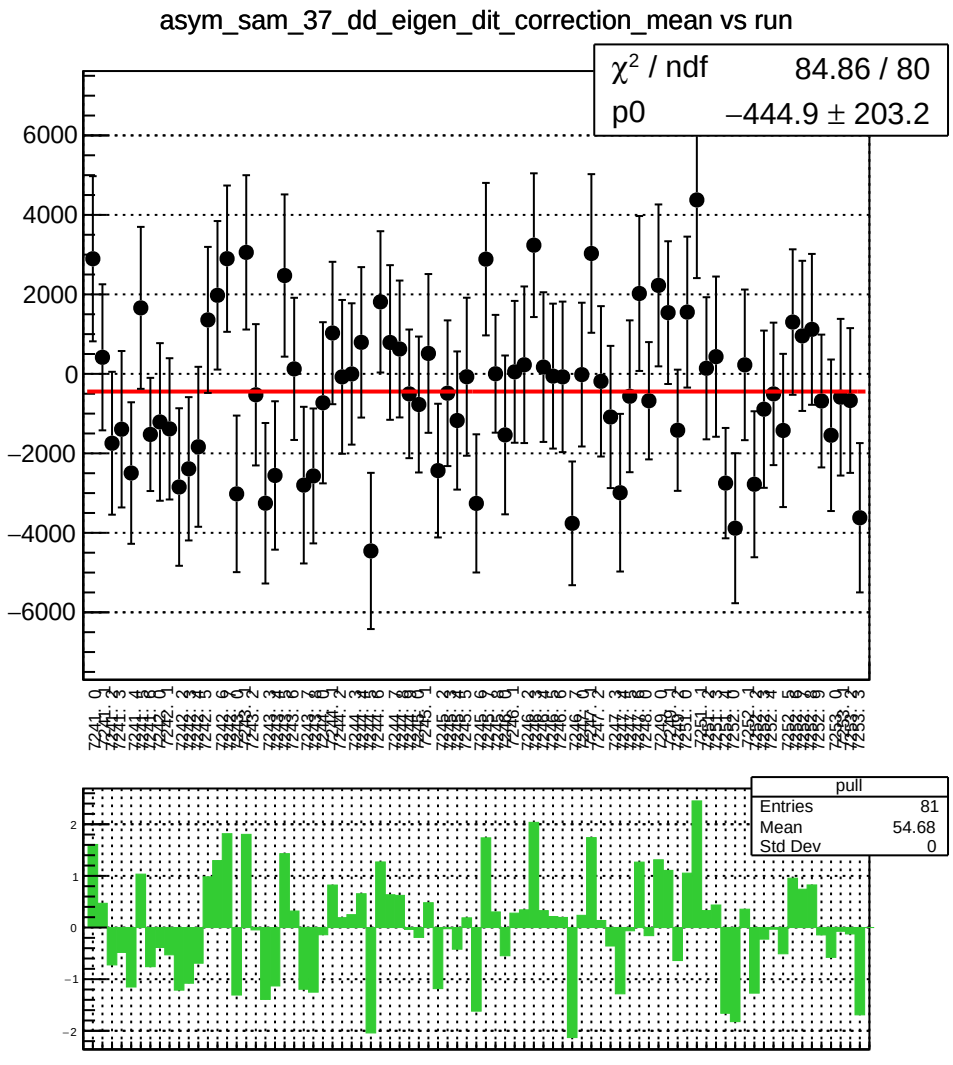

pull1D
Entries 81
Mean 0.02411
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

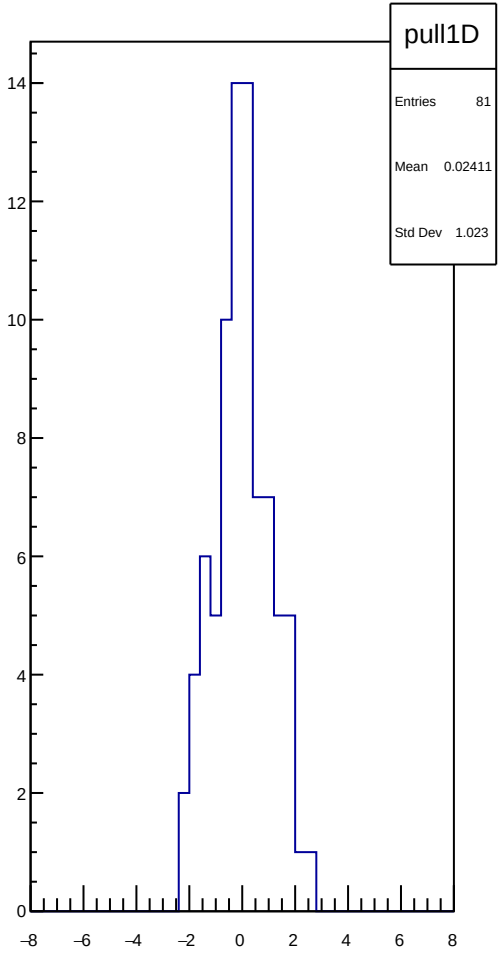

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 3630 / 80
p0 178.7 ± 0.1437
200
195
190
185
180
175
170
165
160
155

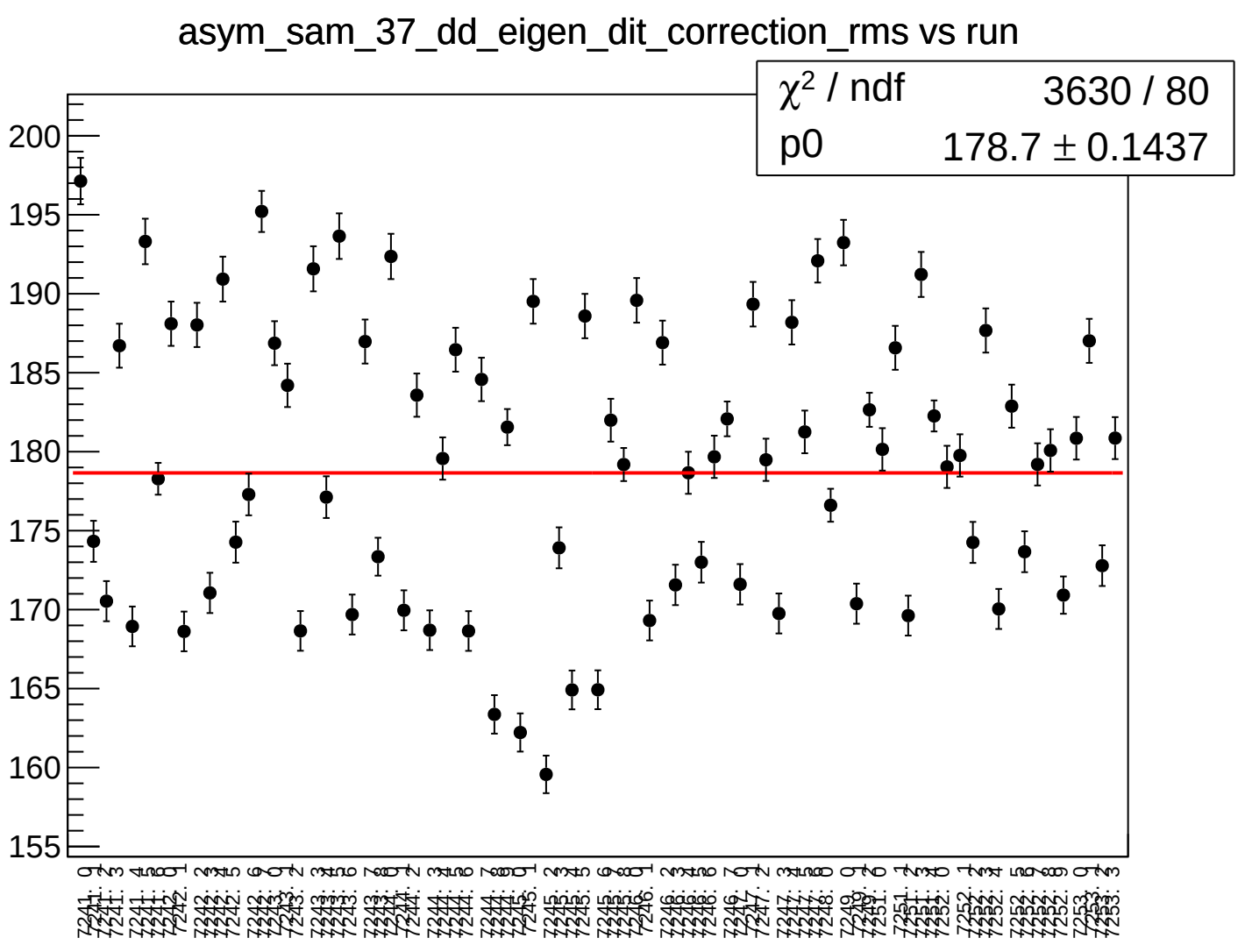

eigen_dit_asym_sam_37_dd_mean vs run
χ^2 / ndf 78.39 / 80
p0 23.25 ± 47.92
pull
Entries 81
Mean 300.5
Std Dev 0

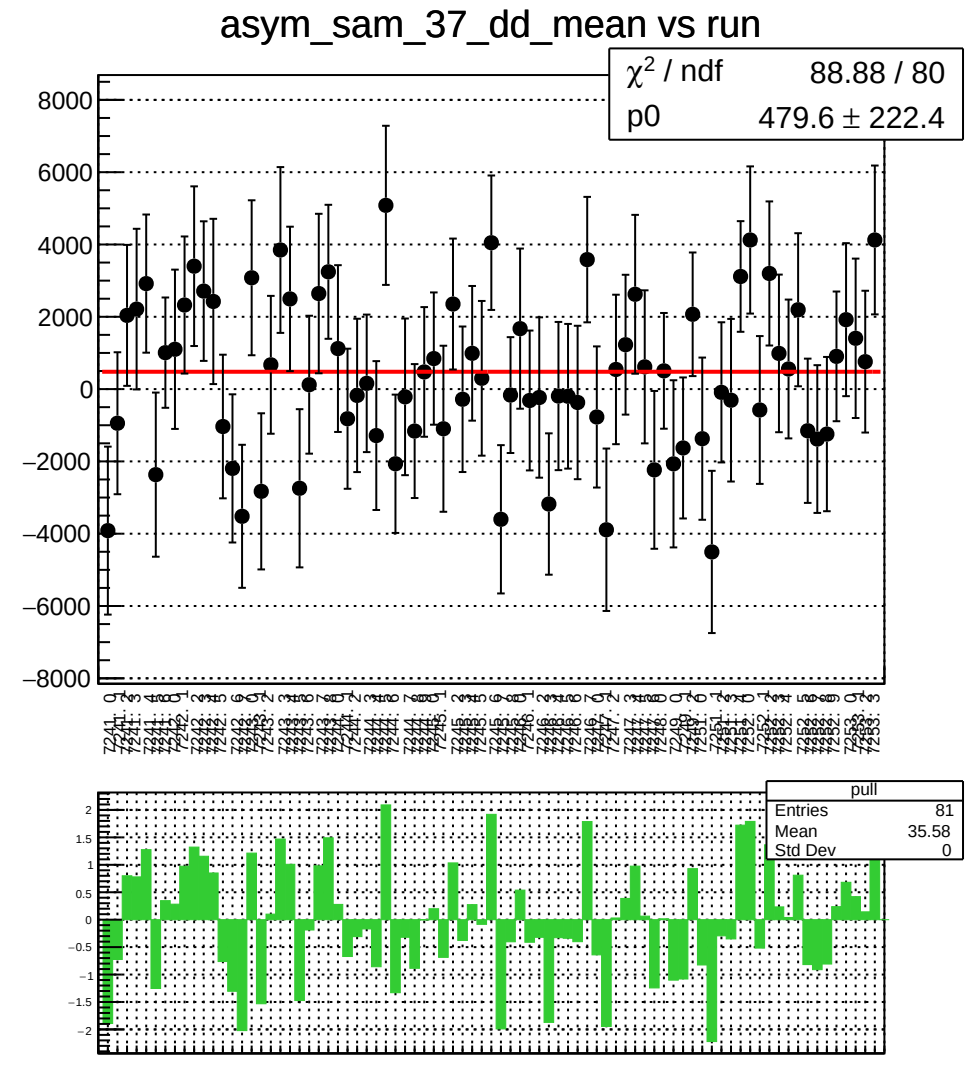

pull1D
Entries 81
Mean 0.006983
Std Dev 0.9837

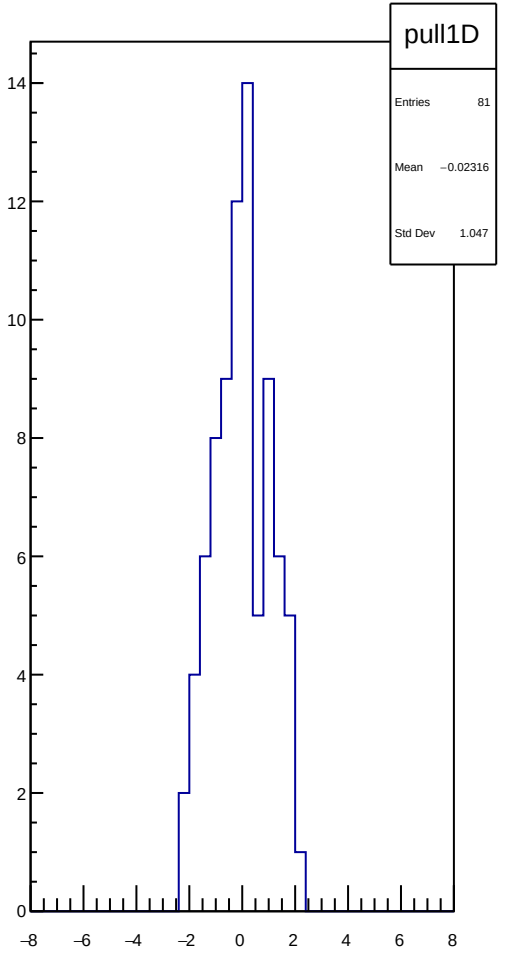

eigen_dit_asym_sam_37_dd_rms vs run
χ² / ndf 7353 / 80
p0 42.07 ± 0.03388
56
54
52
50
48
46
44
42
40
38

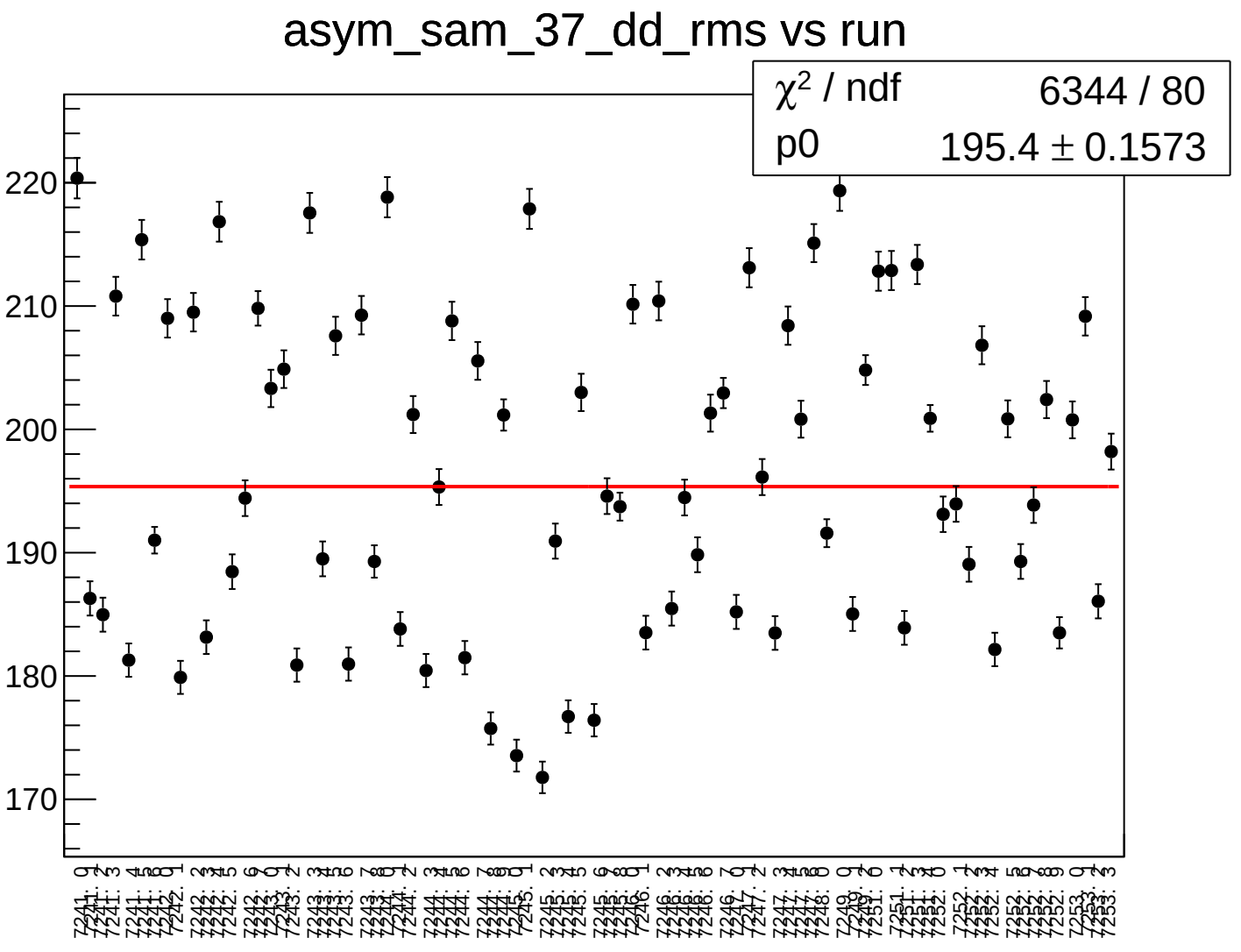

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 84.86 / 80
p0 −444.9 ± 203.2
pull
Entries 81
Mean 54.68
Std Dev 0

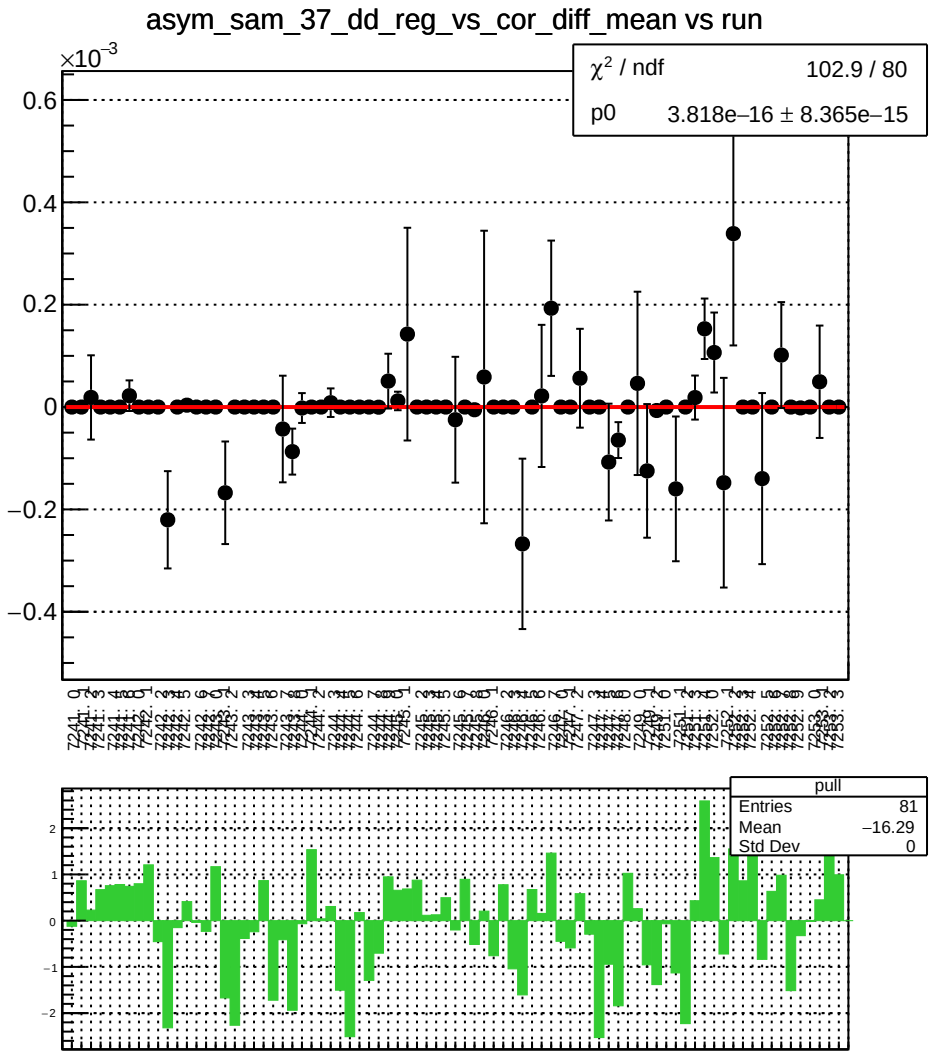

pull1D
Entries 81
Mean 0.02411
Std Dev 1.023

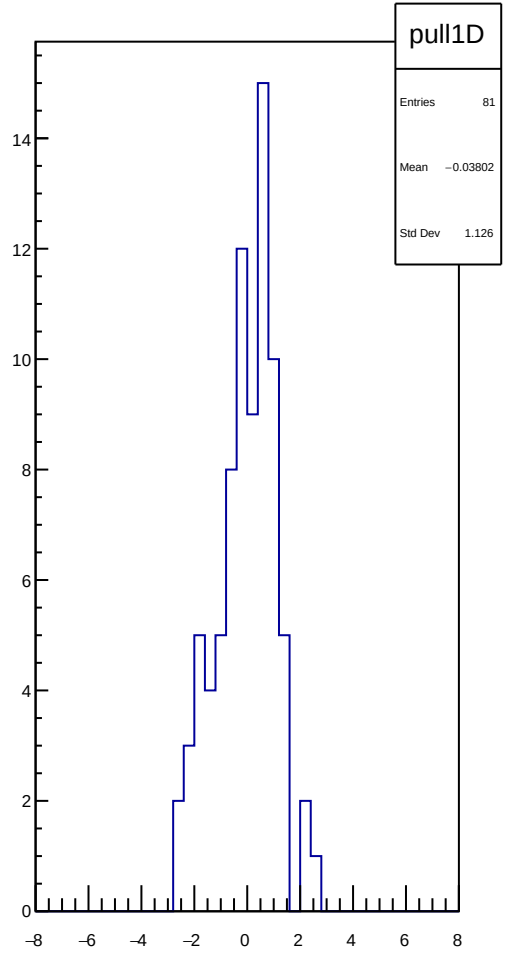

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 3630 / 80
p0 178.7 ± 0.1437
200
195
190
185
180
175
170
165
160
155

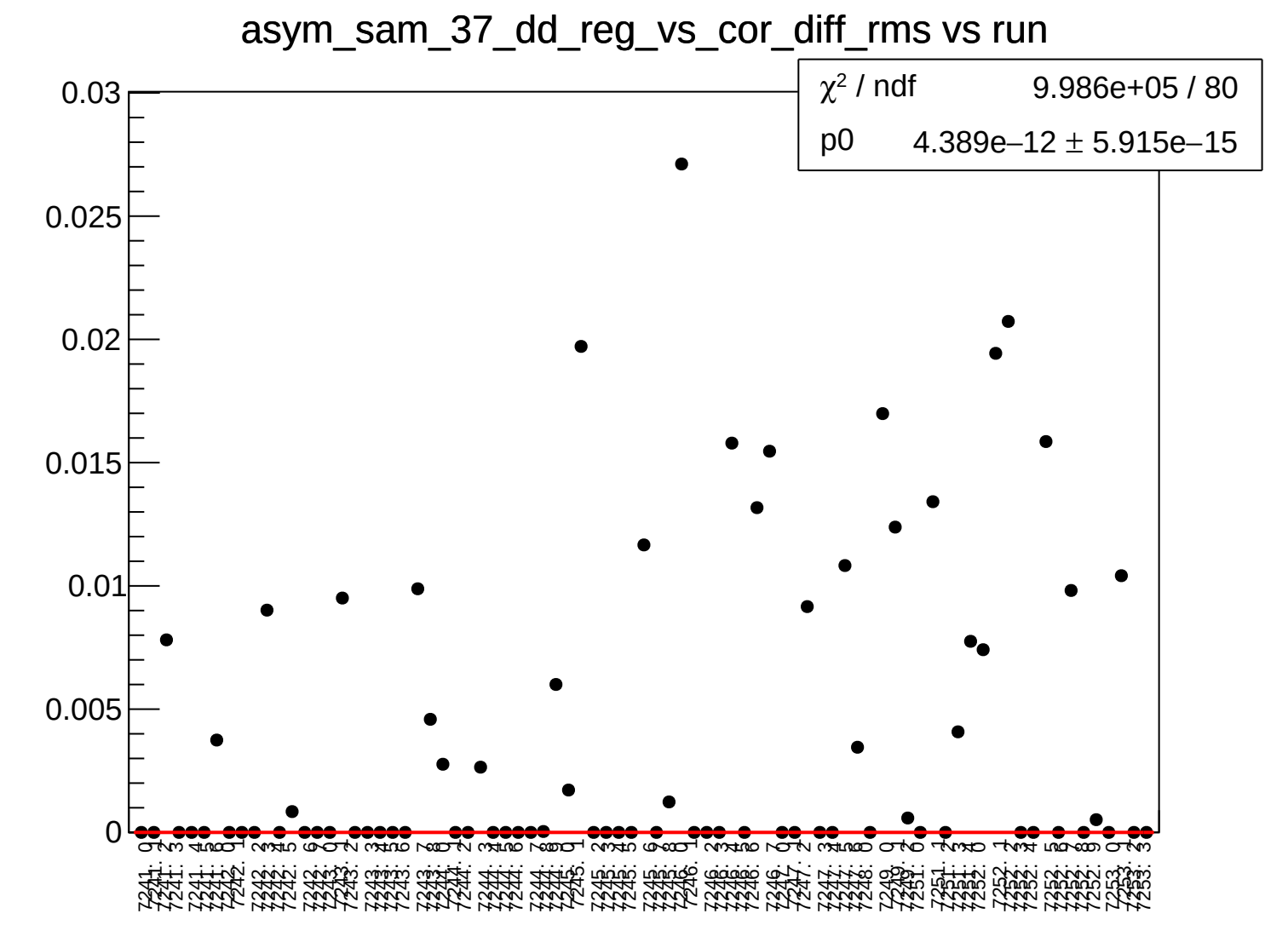

asym_sam_37_dd_mean vs run
χ² / ndf 88.88 / 80
p0 479.6 ± 222.4
pull
Entries 81
Mean 35.58
Std Dev 0

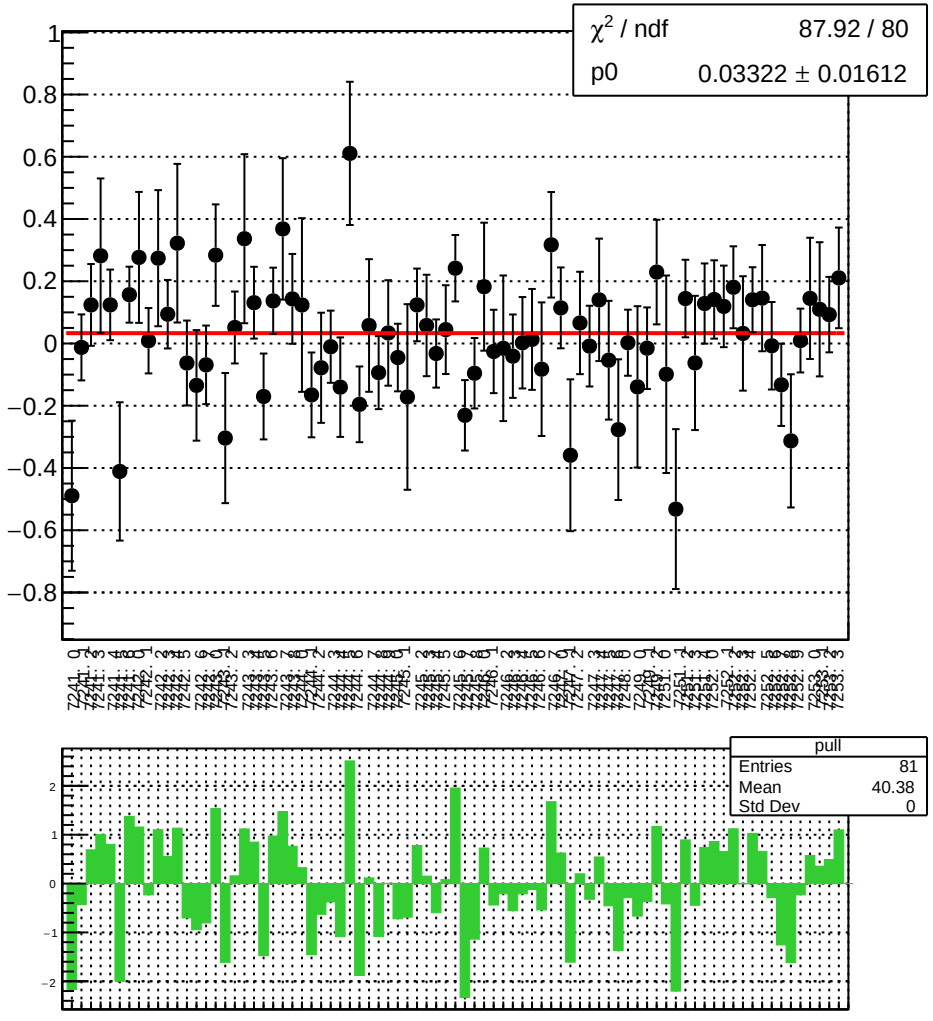

pull1D
Entries 81
Mean −0.02316
Std Dev 1.047

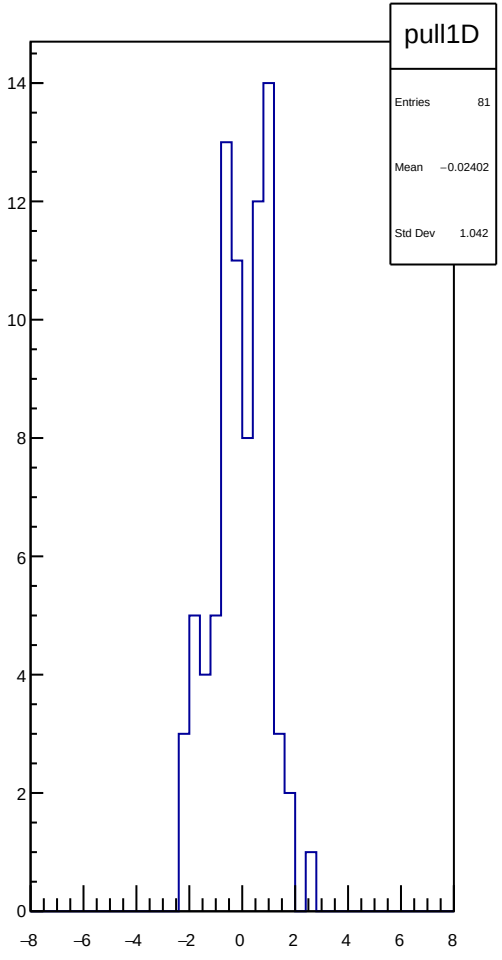

asym_sam_37_dd_rms vs run
χ² / ndf 6344 / 80
p0 195.4 ± 0.1573
220
210
200
190
180
170

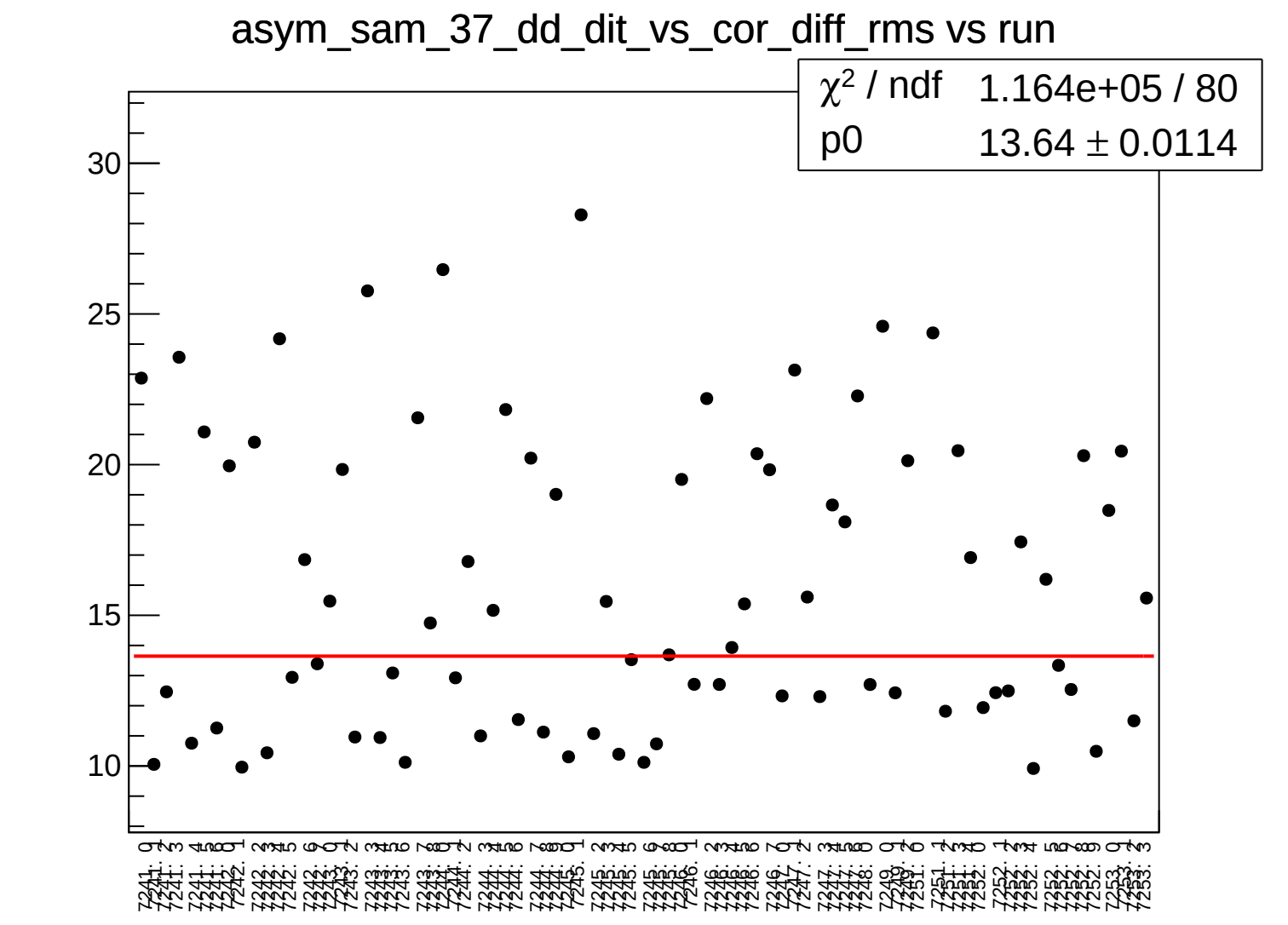

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 102.9 / 80
p0 3.818e−16 ± 8.365e−15
pull
Entries 81
Mean −16.29
Std Dev 0

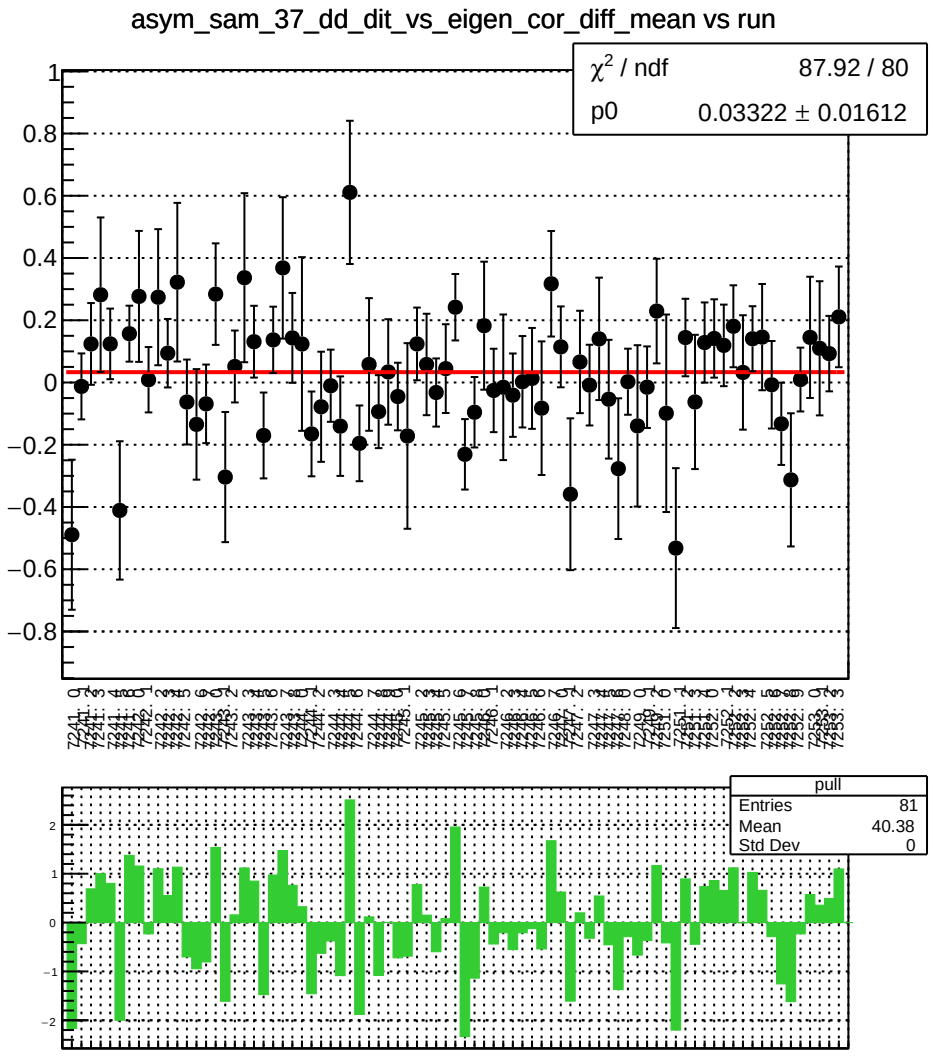

pull1D
Entries 81
Mean −0.03802
Std Dev 1.126

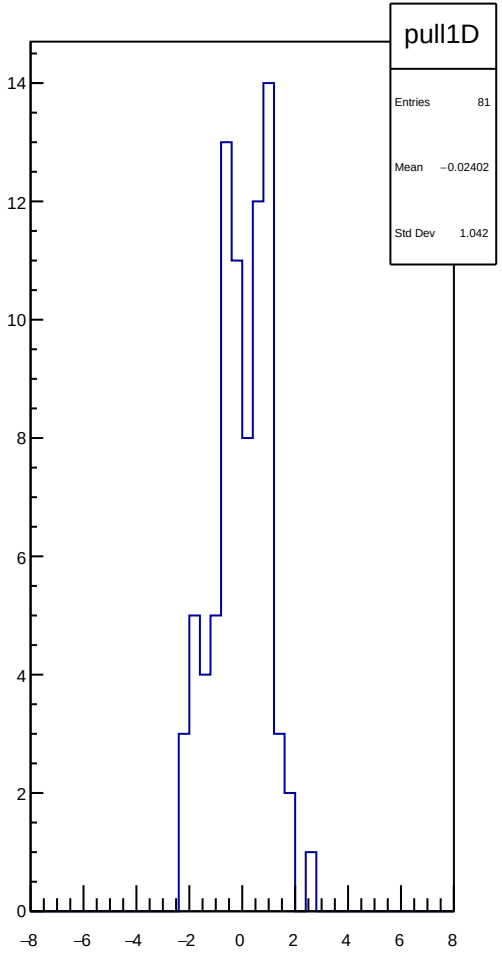

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.986e+05 / 80
p0 4.389e−12 ± 5.915e−15
0.03
0.025
0.02
0.015
0.01
0.005
0

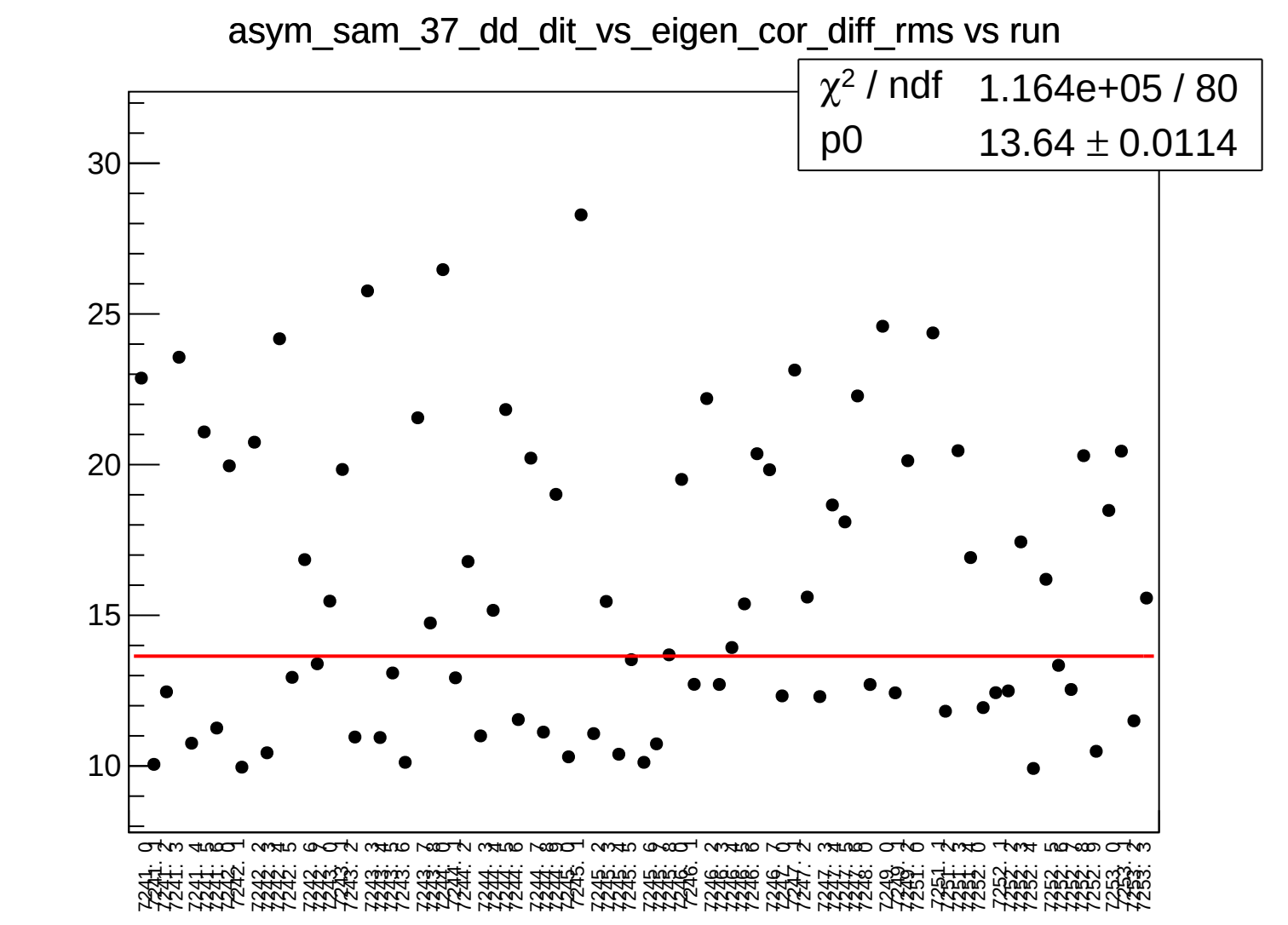

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.92 / 80
p0 0.03322 ± 0.01612
pull
Entries 81
Mean 40.38
Std Dev 0

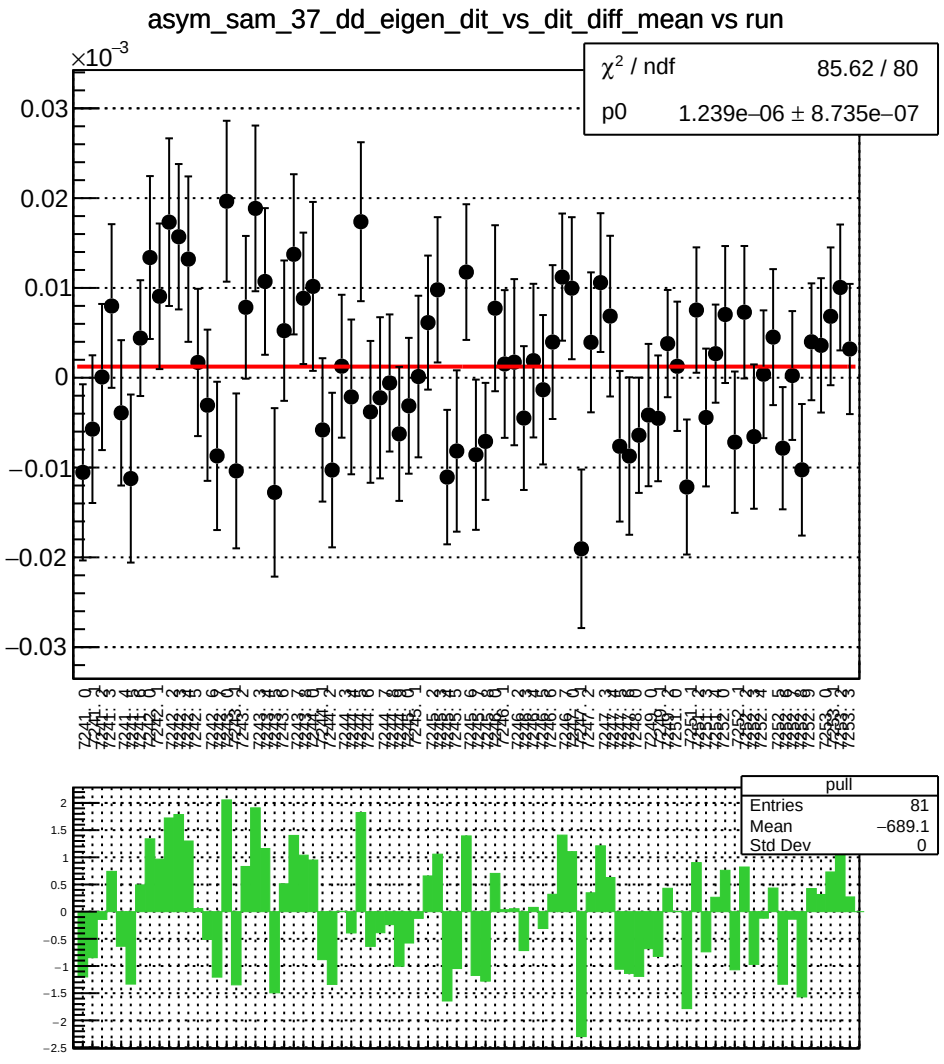

pull1D
Entries 81
Mean −0.02402
Std Dev 1.042

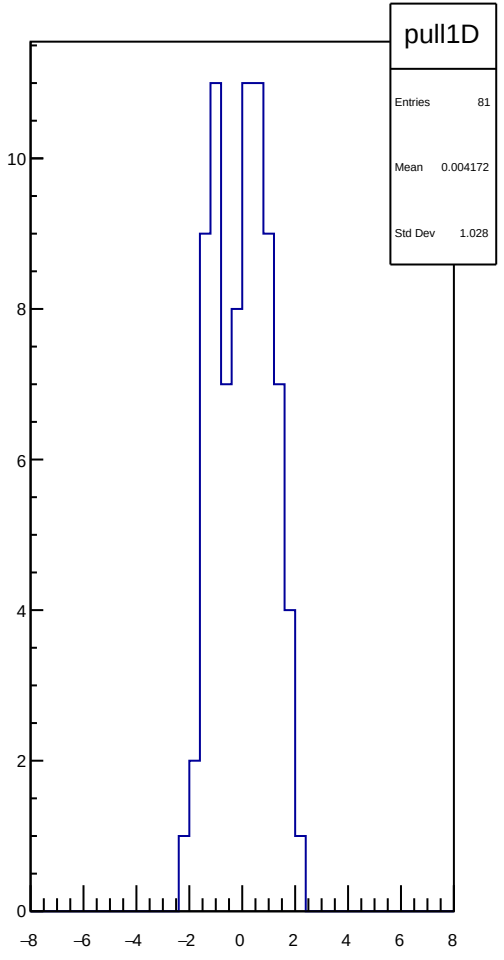

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.164e+05 / 80
p0 13.64 ± 0.0114
30
25
20
15
10

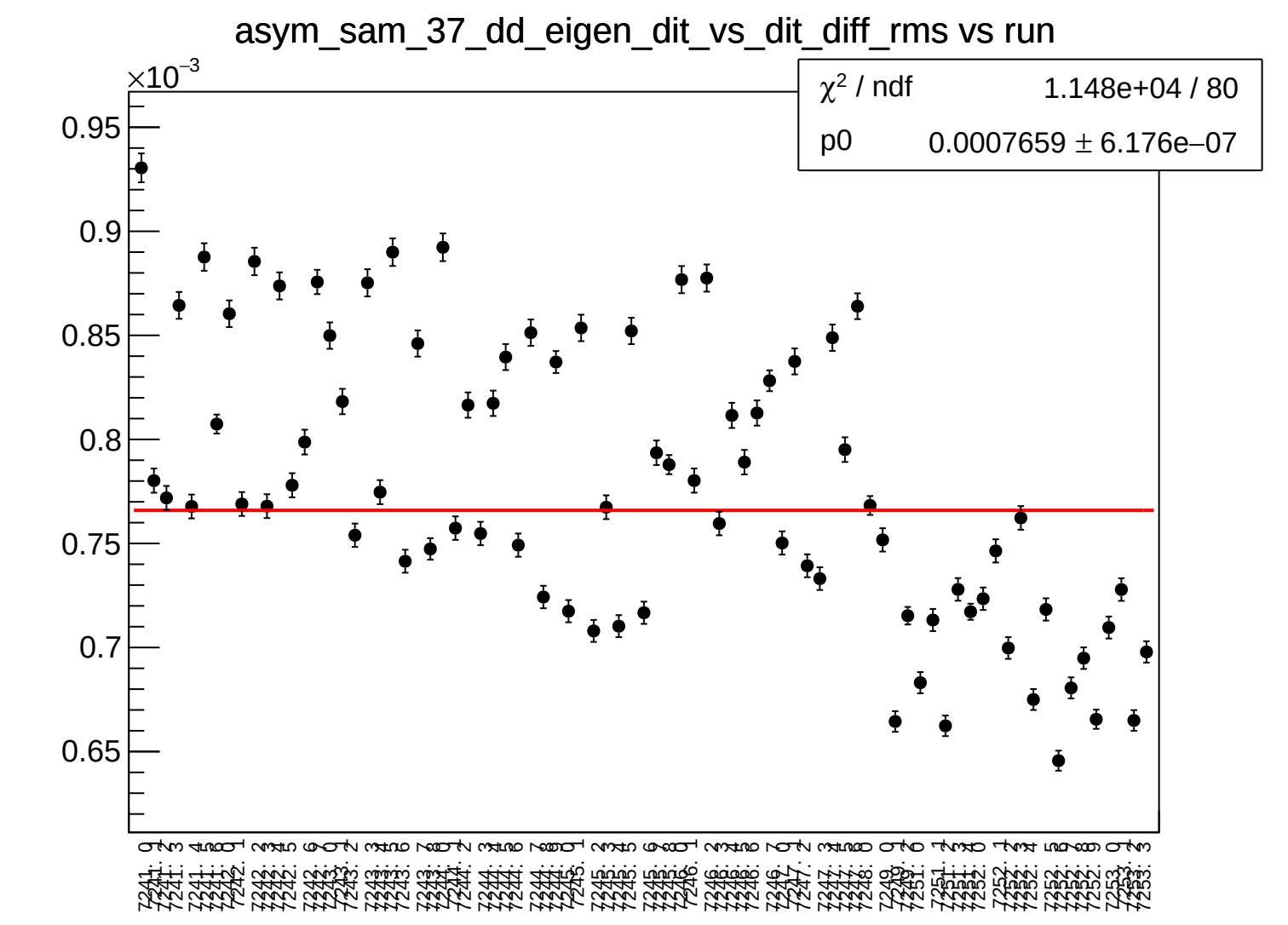

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.92 / 80
p0 0.03322 ± 0.01612
pull
Entries 81
Mean 40.38
Std Dev 0

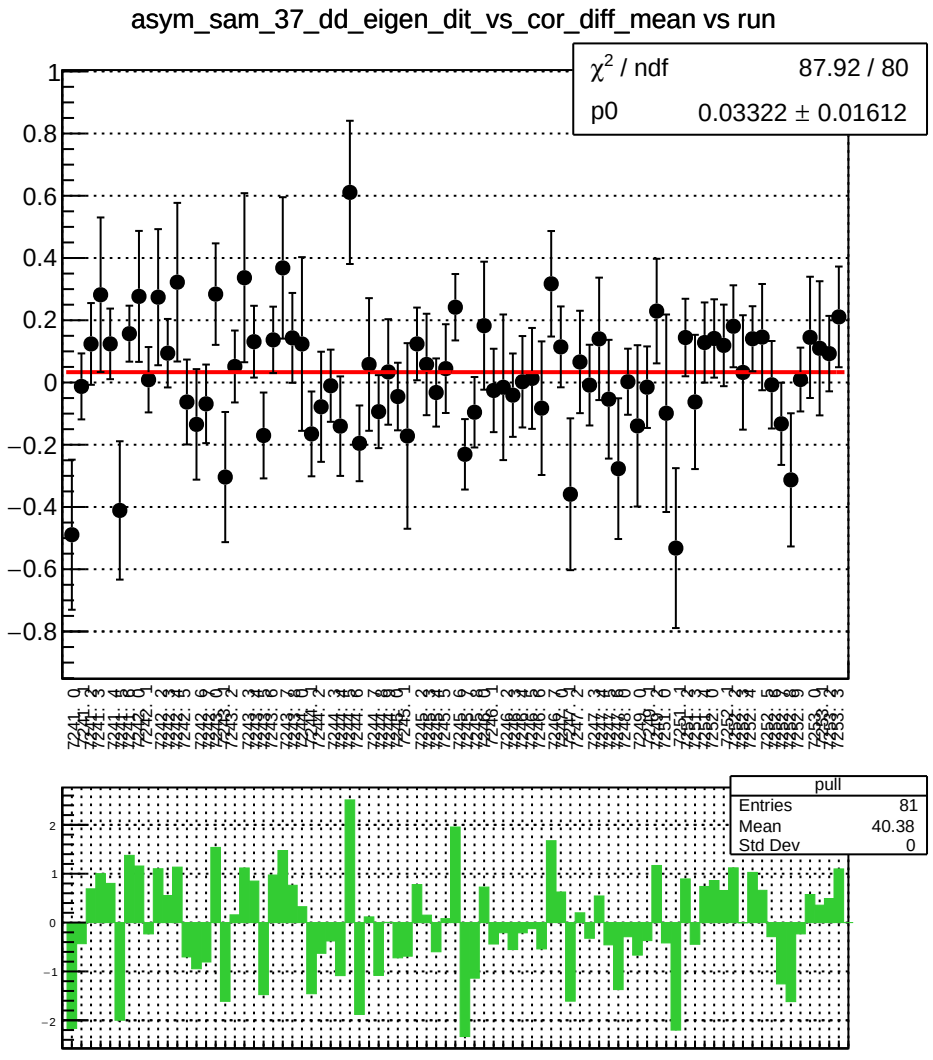

pull1D
Entries 81
Mean −0.02402
Std Dev 1.042

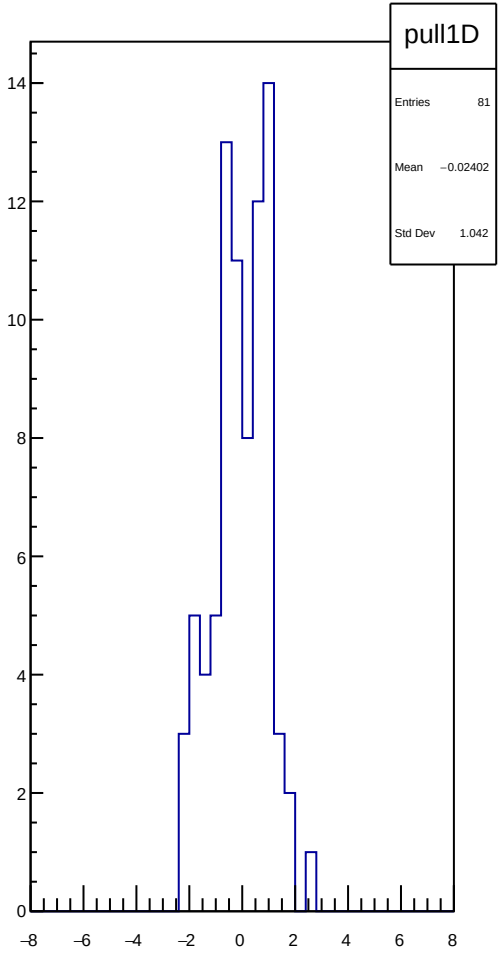

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.164e+05 / 80
p0 13.64 ± 0.0114
30
25
20
15
10

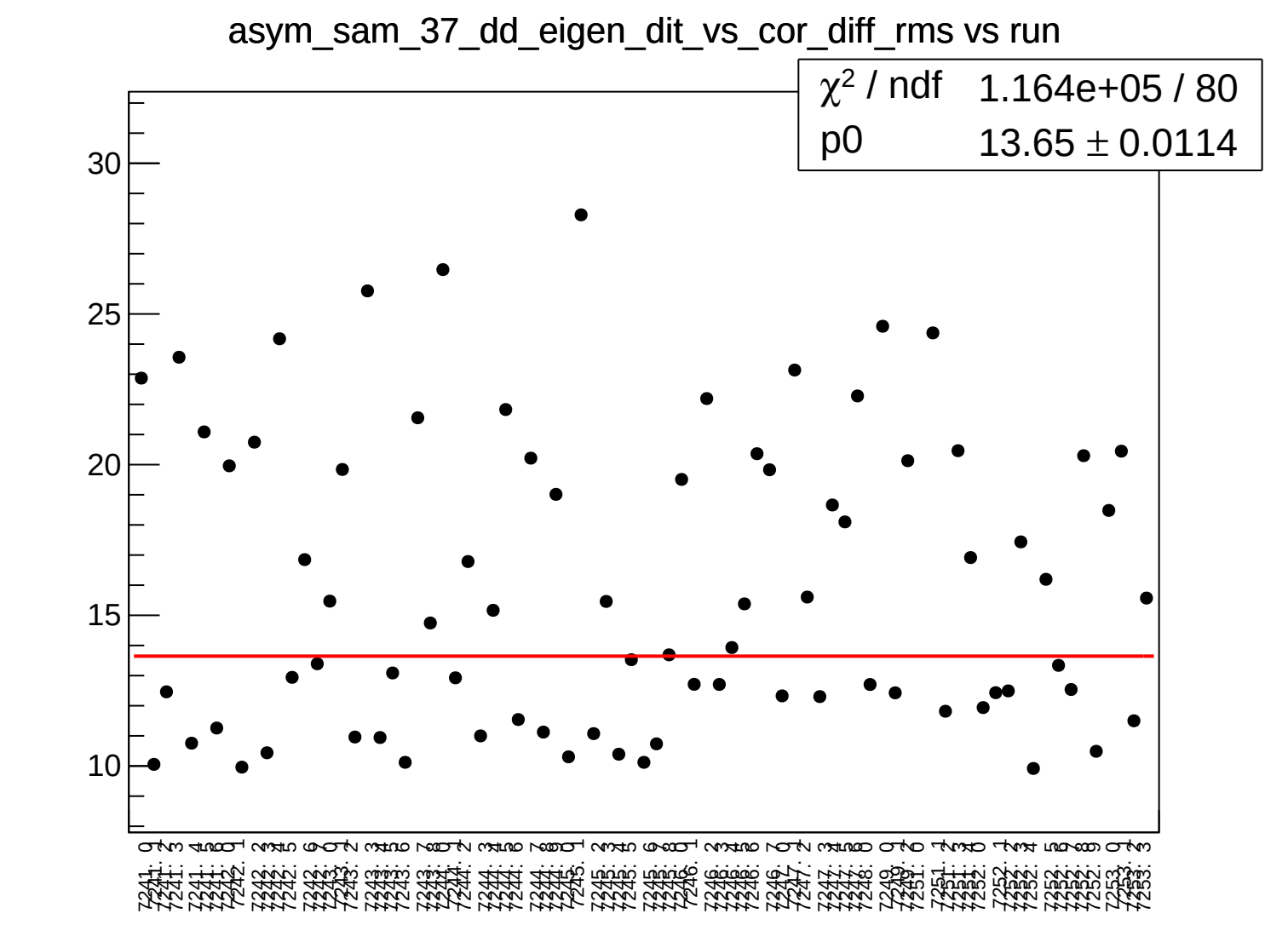

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.62 / 80
p0 1.239e−06 ± 8.735e−07
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 81
Mean −689.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

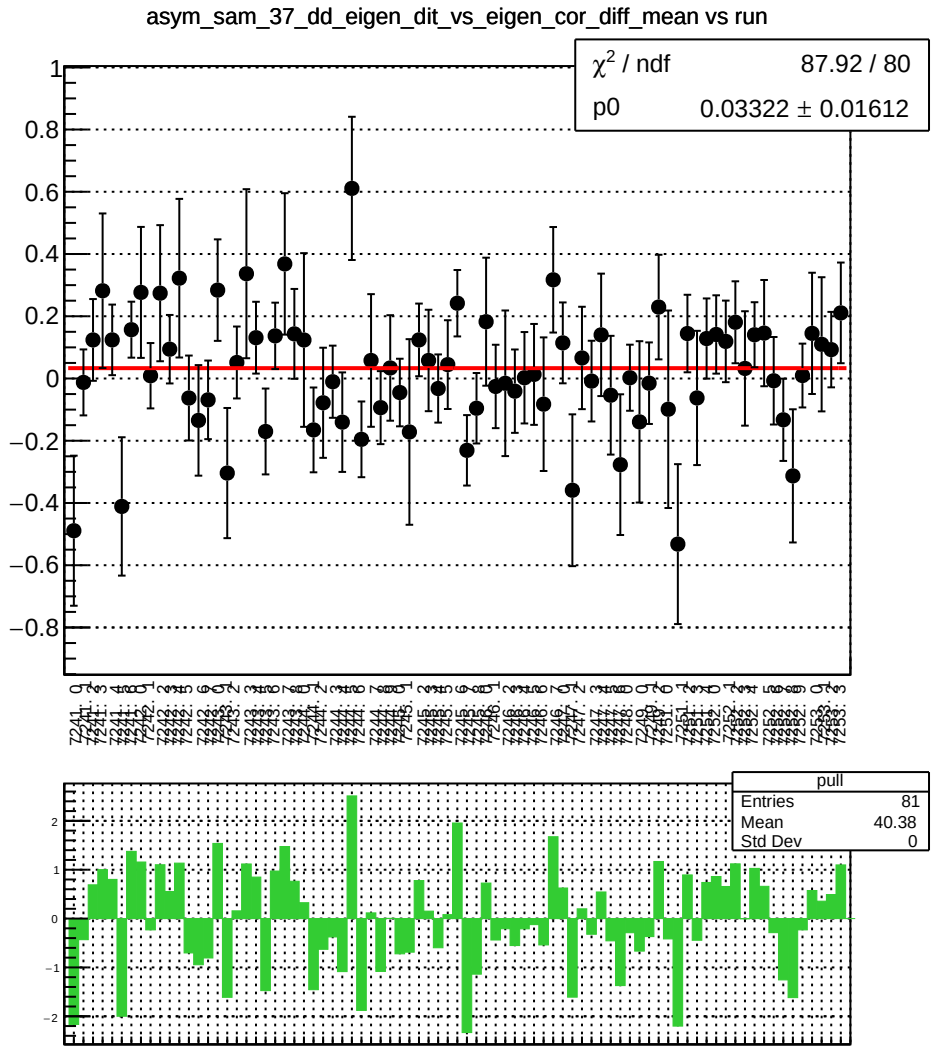

pull1D
Entries 81
Mean 0.004172
Std Dev 1.028
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

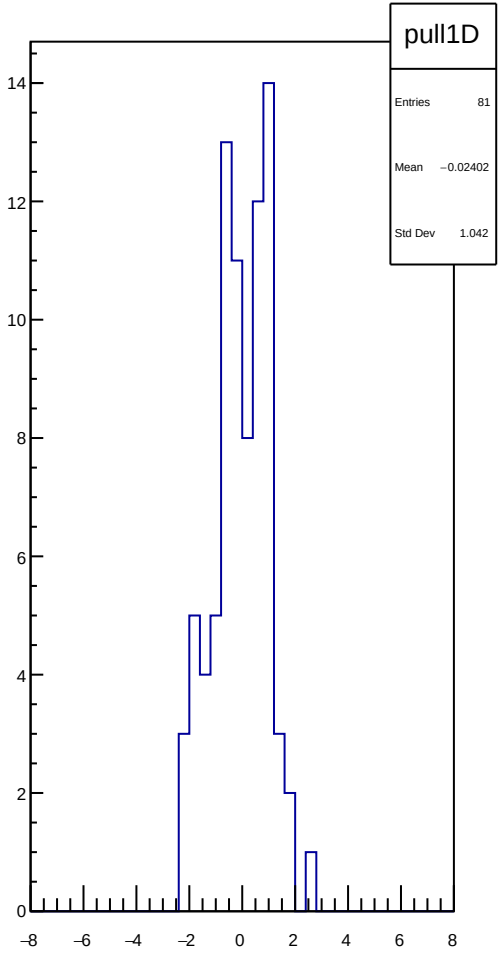

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 1.148e+04 / 80
p0 0.0007659 ± 6.176e−07
0.95
0.9
0.85
0.8
0.75
0.7
0.65

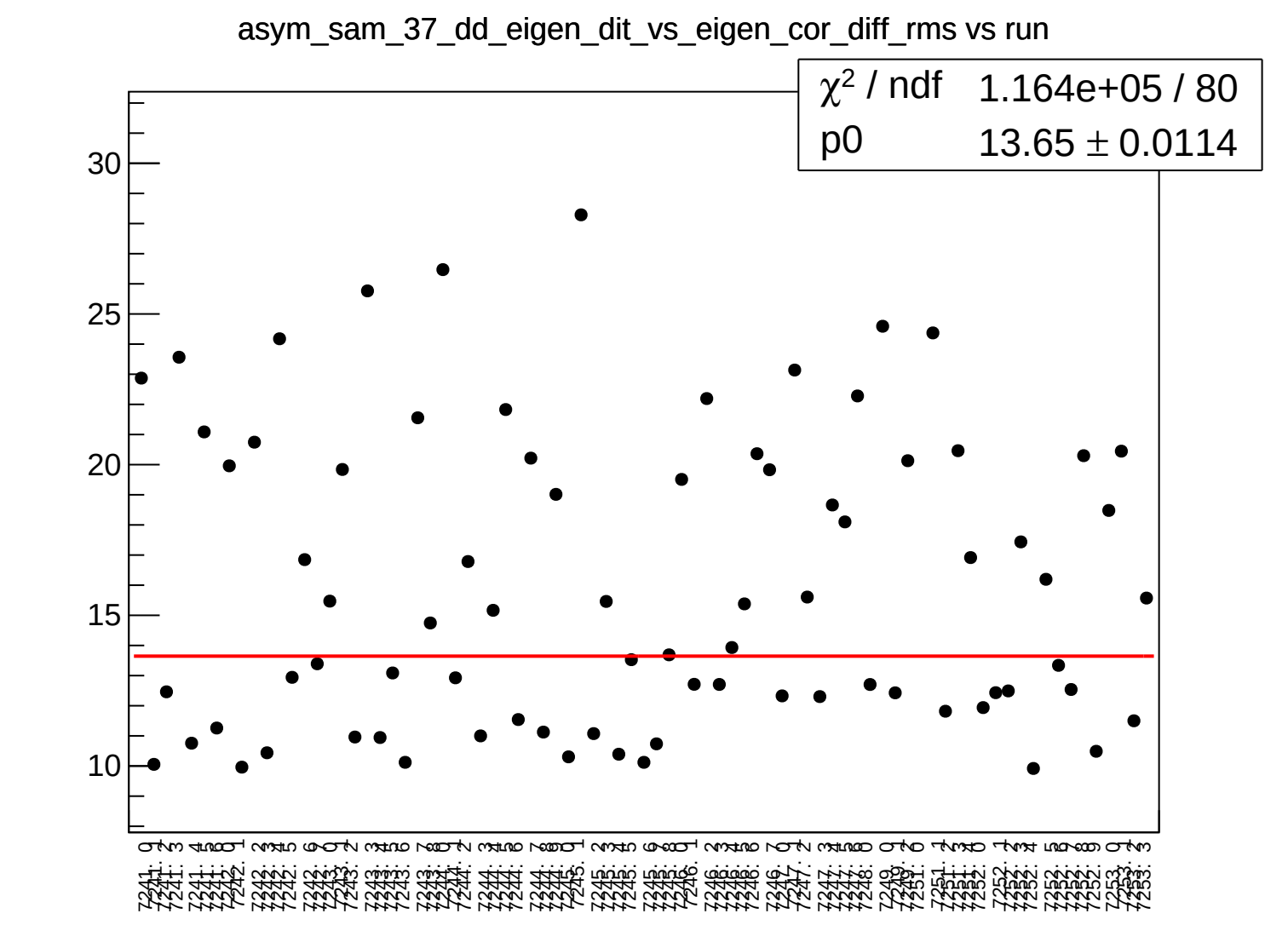

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.92 / 80
p0 0.03322 ± 0.01612
pull
Entries 81
Mean 40.38
Std Dev 0

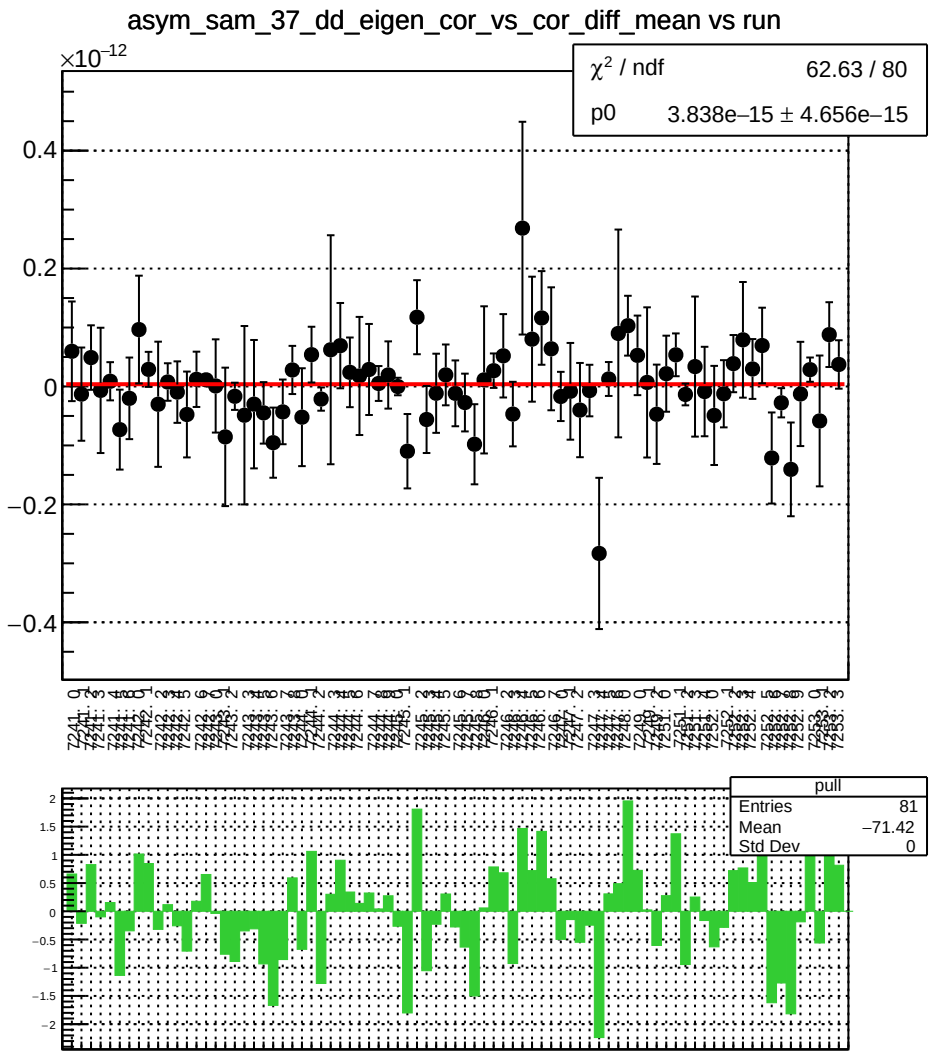

pull1D
Entries 81
Mean −0.02402
Std Dev 1.042

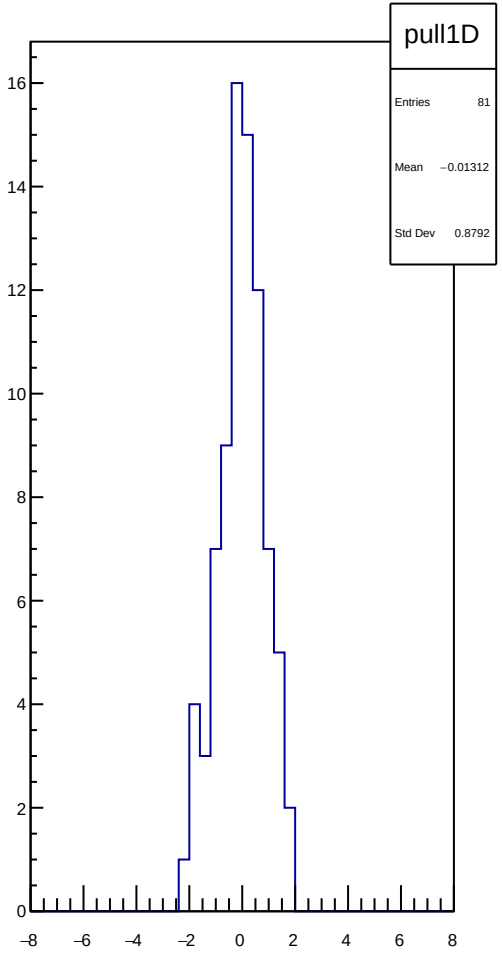

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.164e+05 / 80
p0 13.65 ± 0.0114
30
25
20
15
10

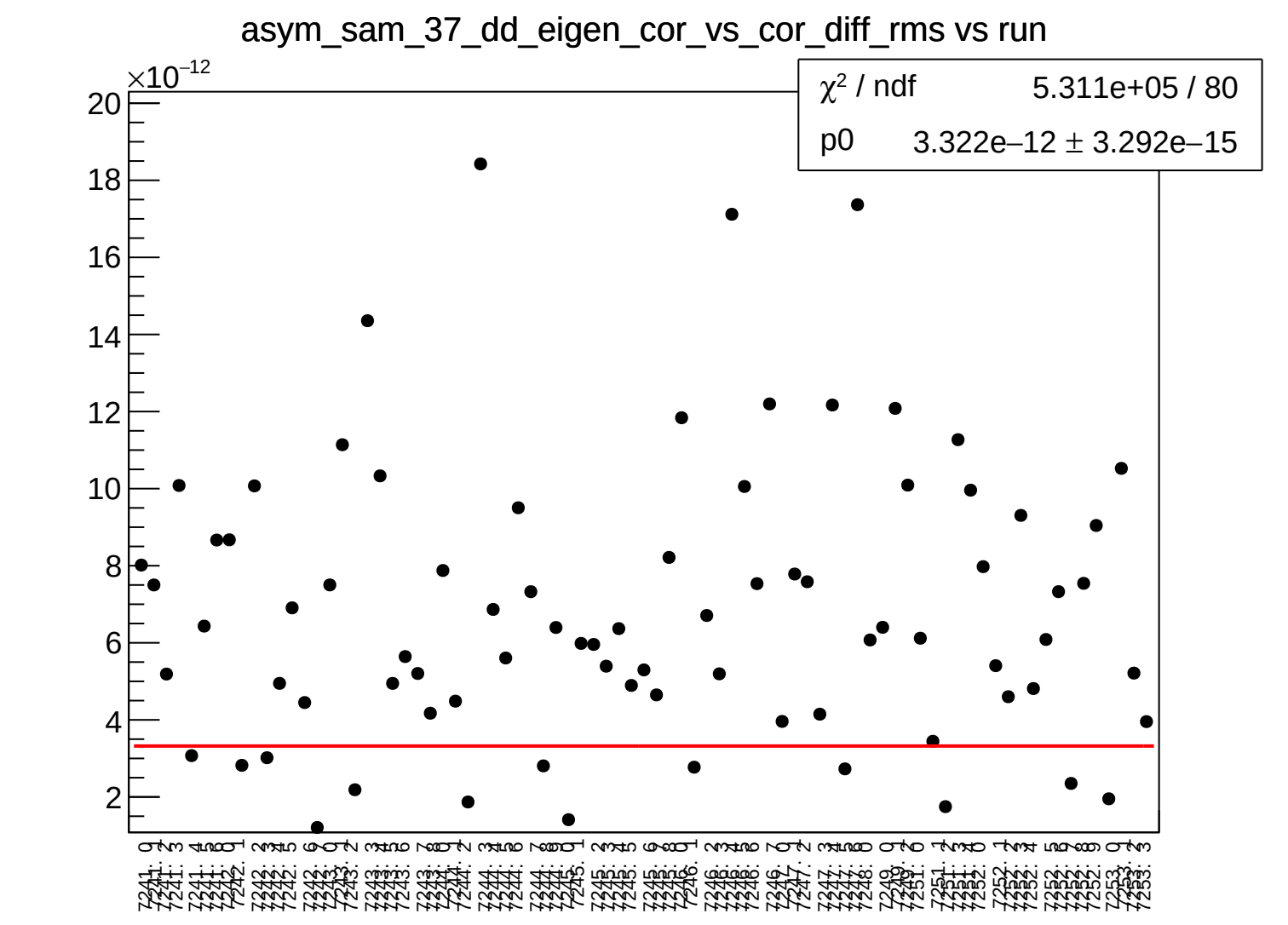

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.92 / 80
p0 0.03322 ± 0.01612
pull
Entries 81
Mean 40.38
Std Dev 0

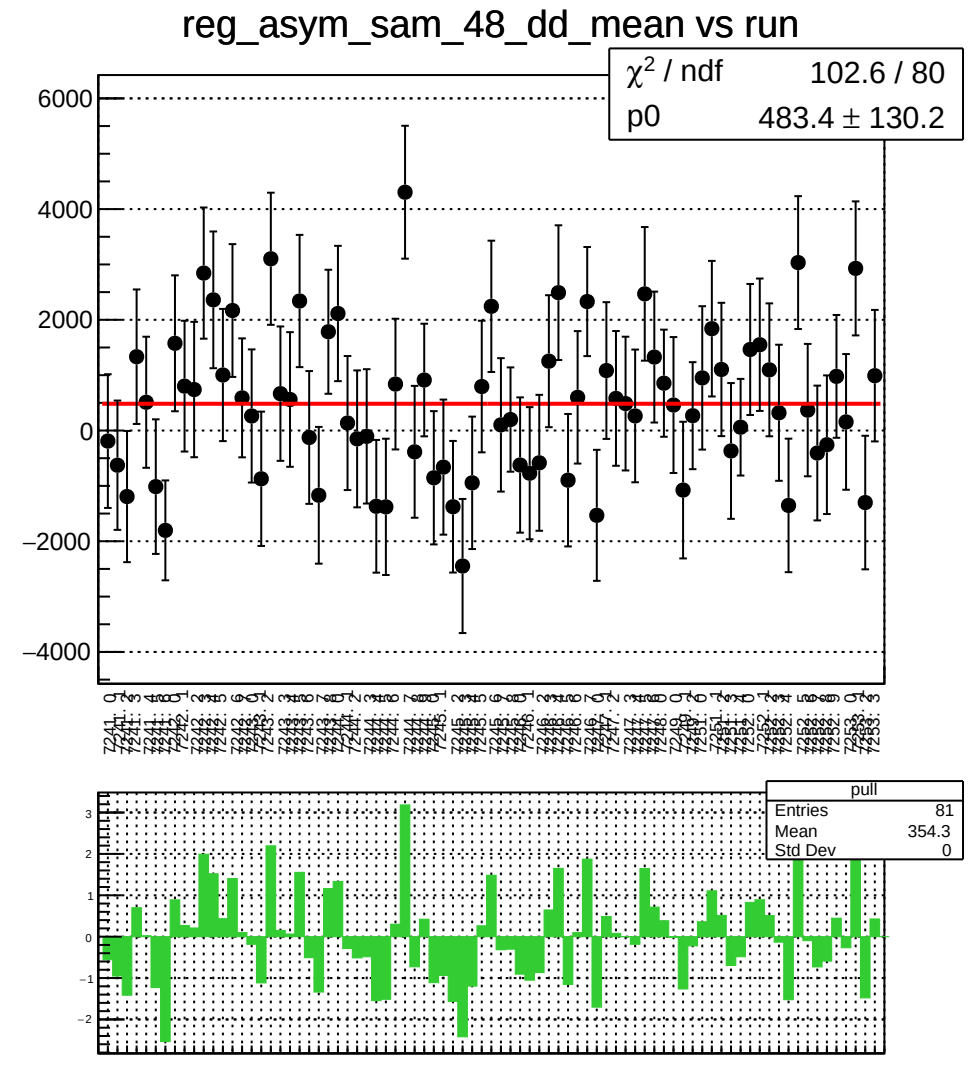

pull1D
Entries 81
Mean −0.02402
Std Dev 1.042

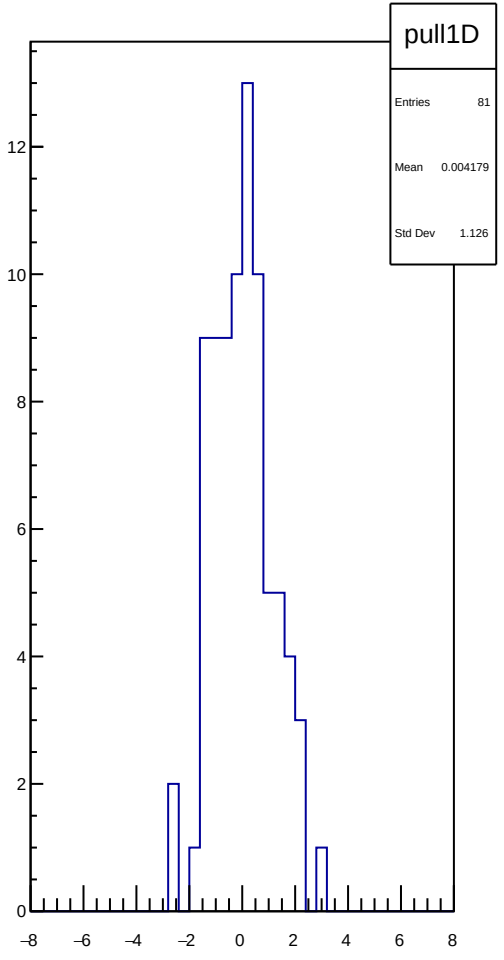

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.164e+05 / 80
p0 13.65 ± 0.0114
30
25
20
15
10

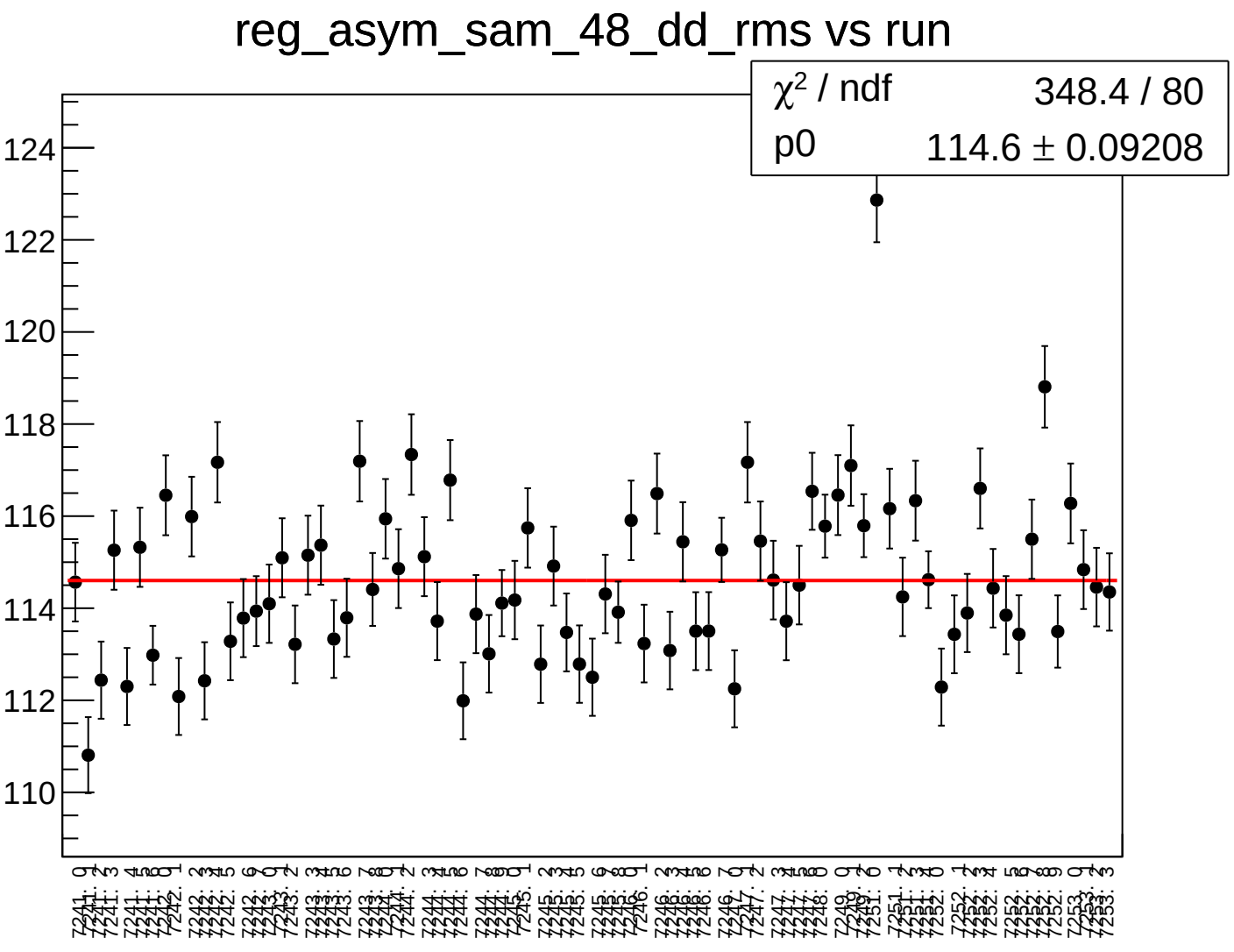

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 62.63 / 80
p0 3.838e−15 ± 4.656e−15
0.4
0.2
0
−0.2
−0.4
pull
Entries 81
Mean −71.42
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

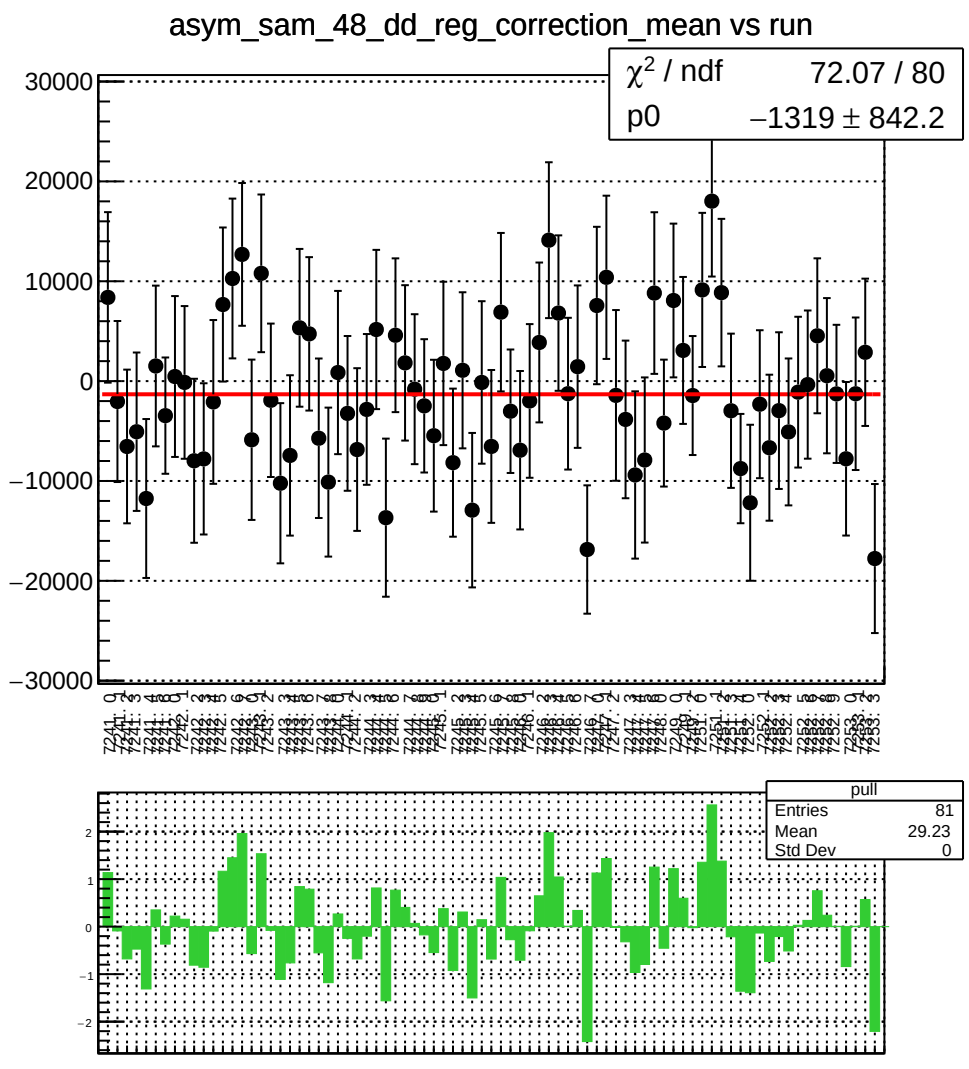

pull1D
Entries 81
Mean −0.01312
Std Dev 0.8792
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

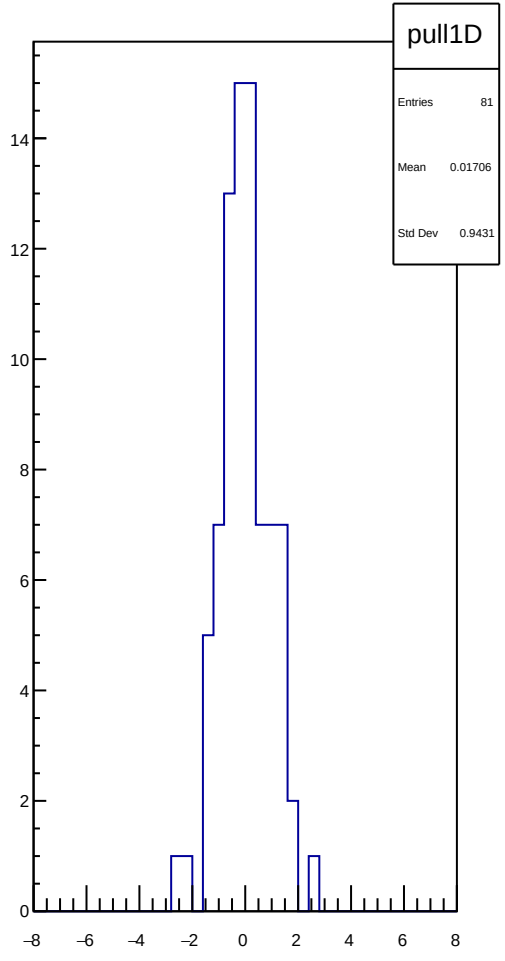

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.311e+05 / 80
p0 3.322e−12 ± 3.292e−15
20
18
16
14
12
10
8
6
4
2

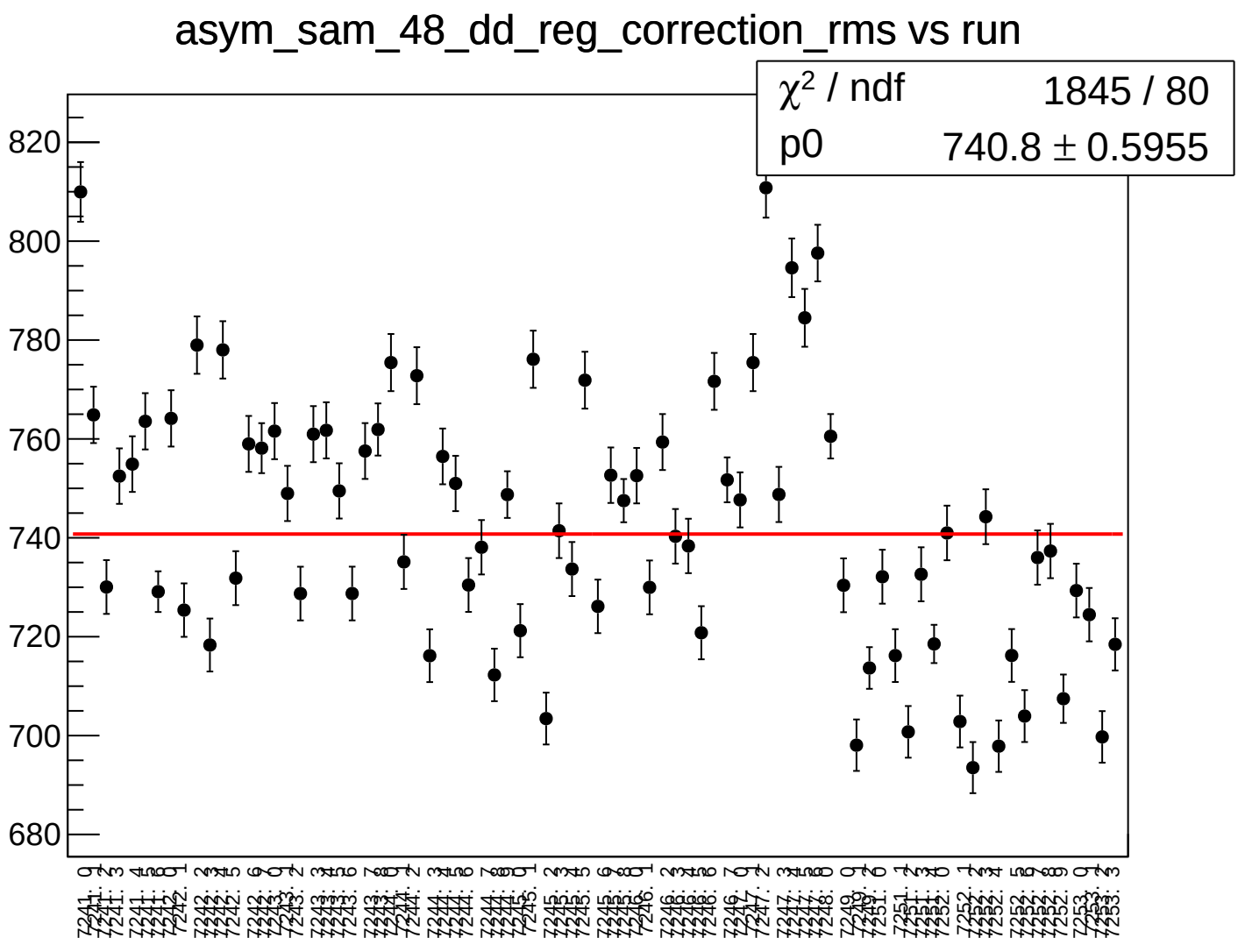

reg_asym_sam_48_dd_mean vs run
χ² / ndf 102.6 / 80
p0 483.4 ± 130.2
pull
Entries 81
Mean 354.3
Std Dev 0

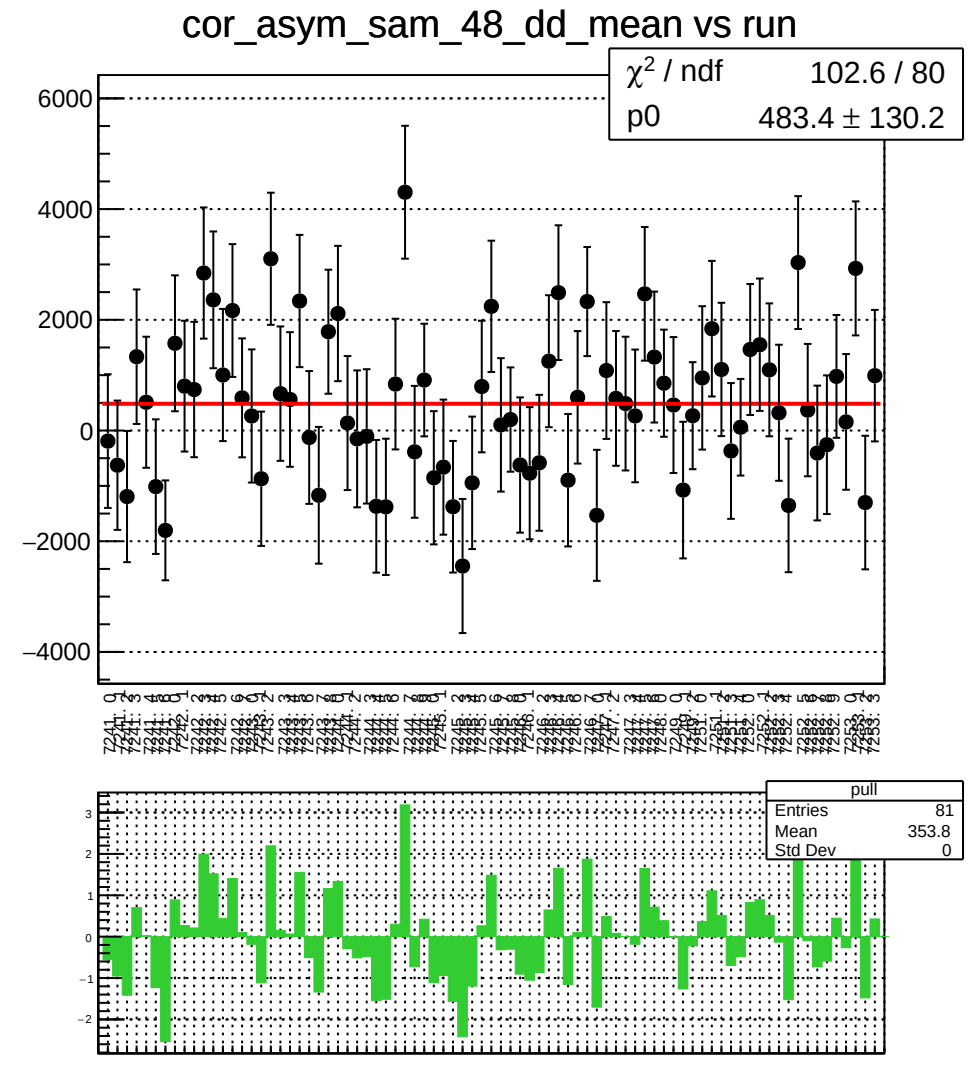

pull1D
Entries 81
Mean 0.004179
Std Dev 1.126

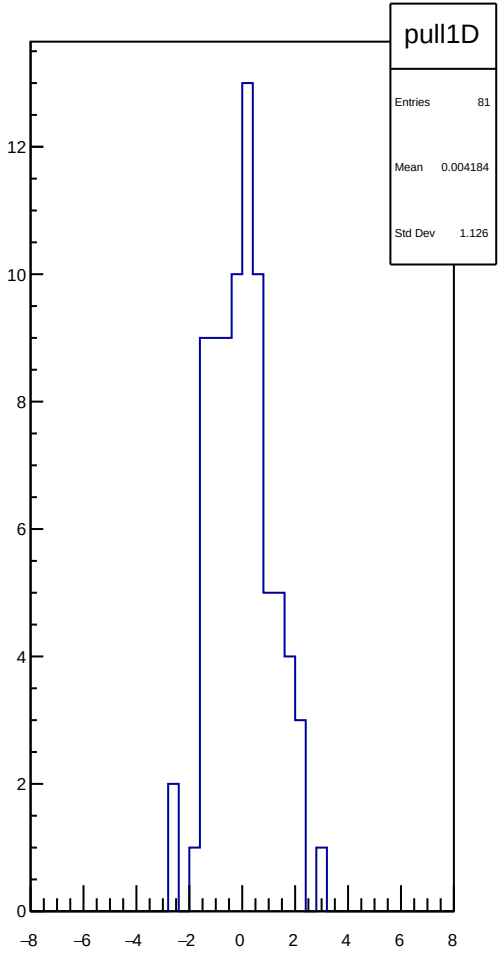

reg_asym_sam_48_dd_rms vs run
χ^2 / ndf 348.4 / 80
p0 114.6 ± 0.09208
124
122
120
118
116
114
112
110

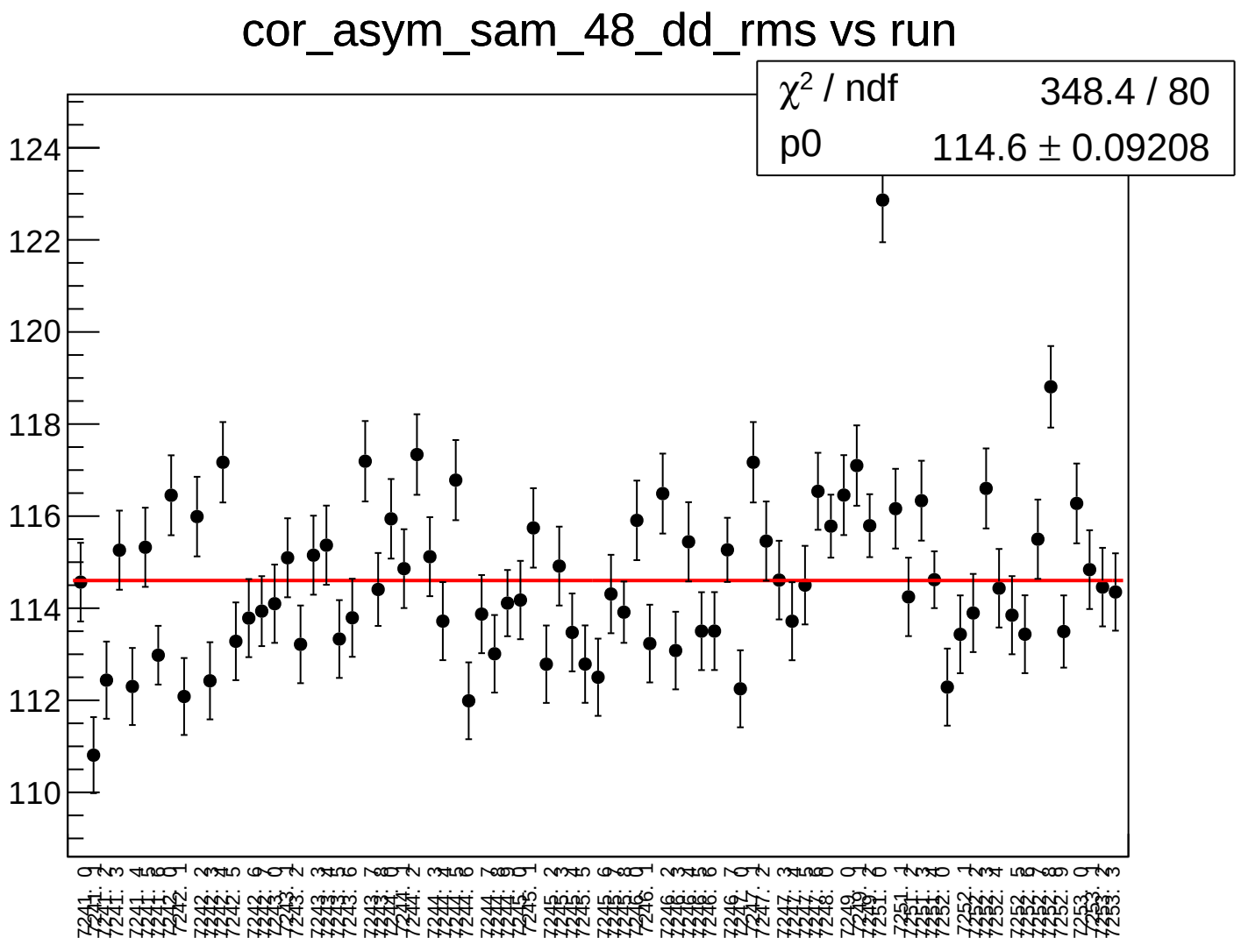

asym_sam_48_dd_reg_correction_mean vs run
χ² / ndf 72.07 / 80
p0 −1319 ± 842.2
pull
Entries 81
Mean 29.23
Std Dev 0

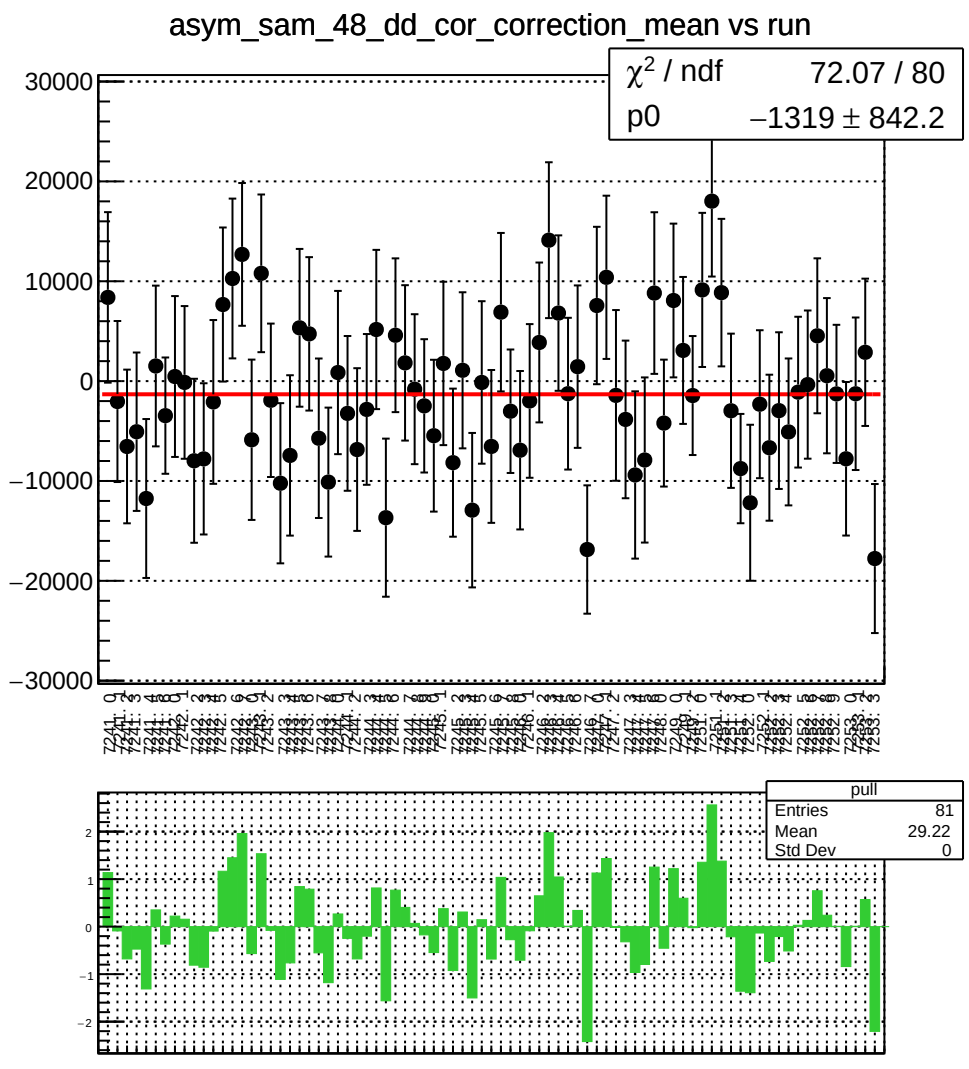

pull1D
Entries 81
Mean 0.01706
Std Dev 0.9431

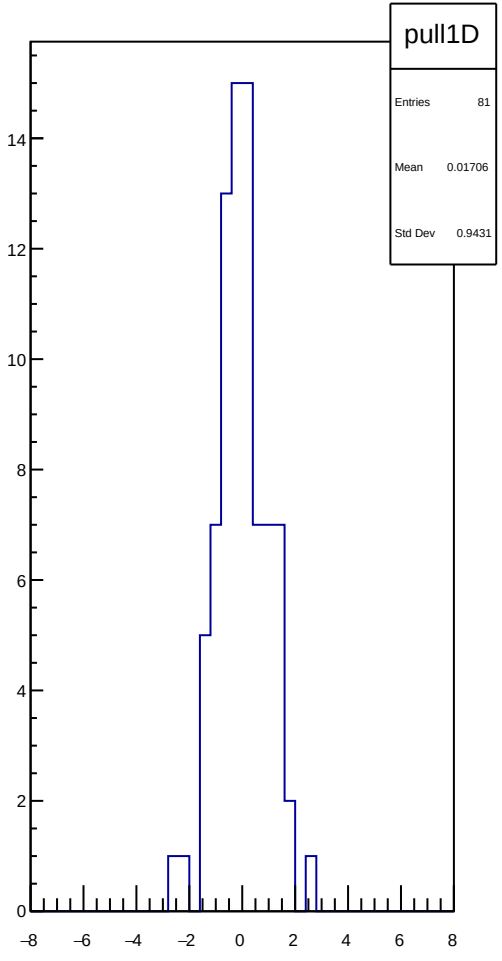

asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 1845 / 80
p0 740.8 ± 0.5955
820
800
780
760
740
720
700
680

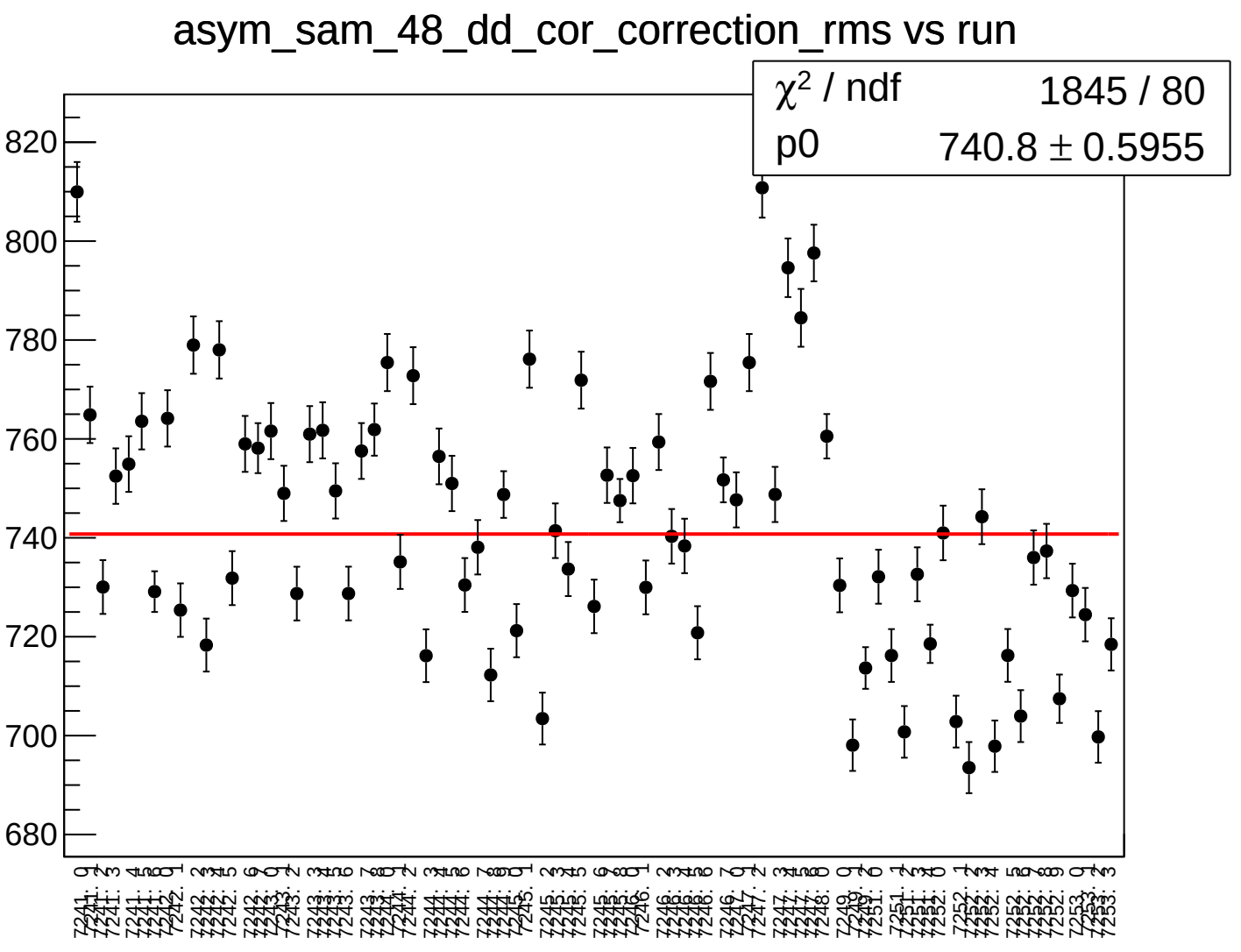

cor_asym_sam_48_dd_mean vs run
χ² / ndf 102.6 / 80
p0 483.4 ± 130.2
pull
Entries 81
Mean 353.8
Std Dev 0

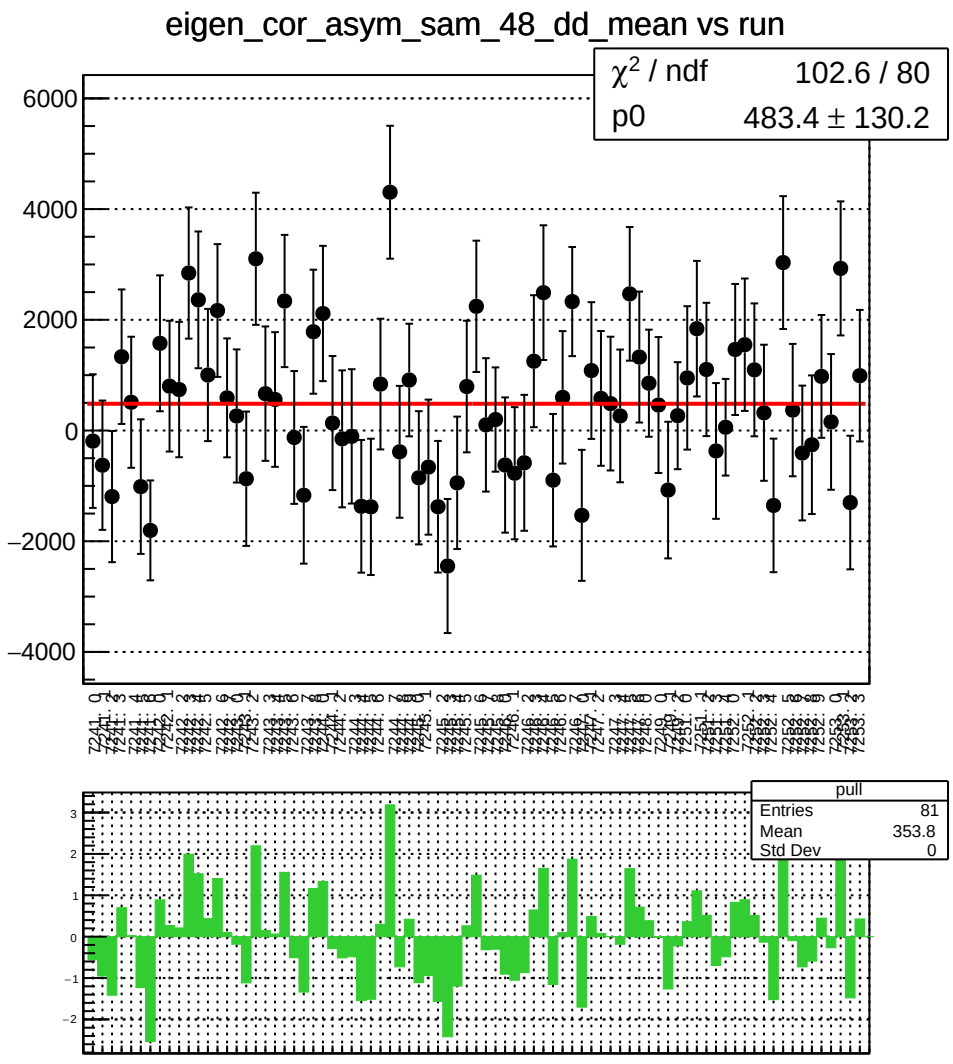

pull1D
Entries 81
Mean 0.004184
Std Dev 1.126

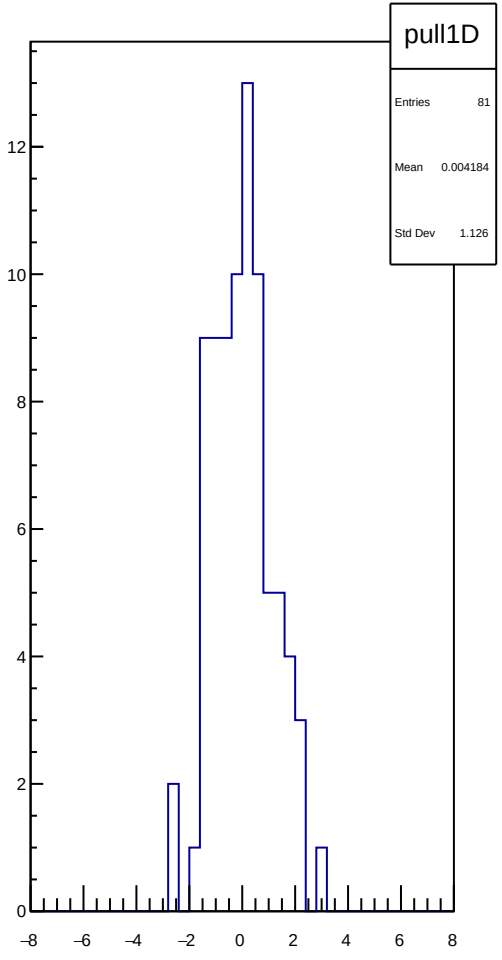

cor_asym_sam_48_dd_rms vs run
χ^2 / ndf 348.4 / 80
p0 114.6 ± 0.09208
124
122
120
118
116
114
112
110

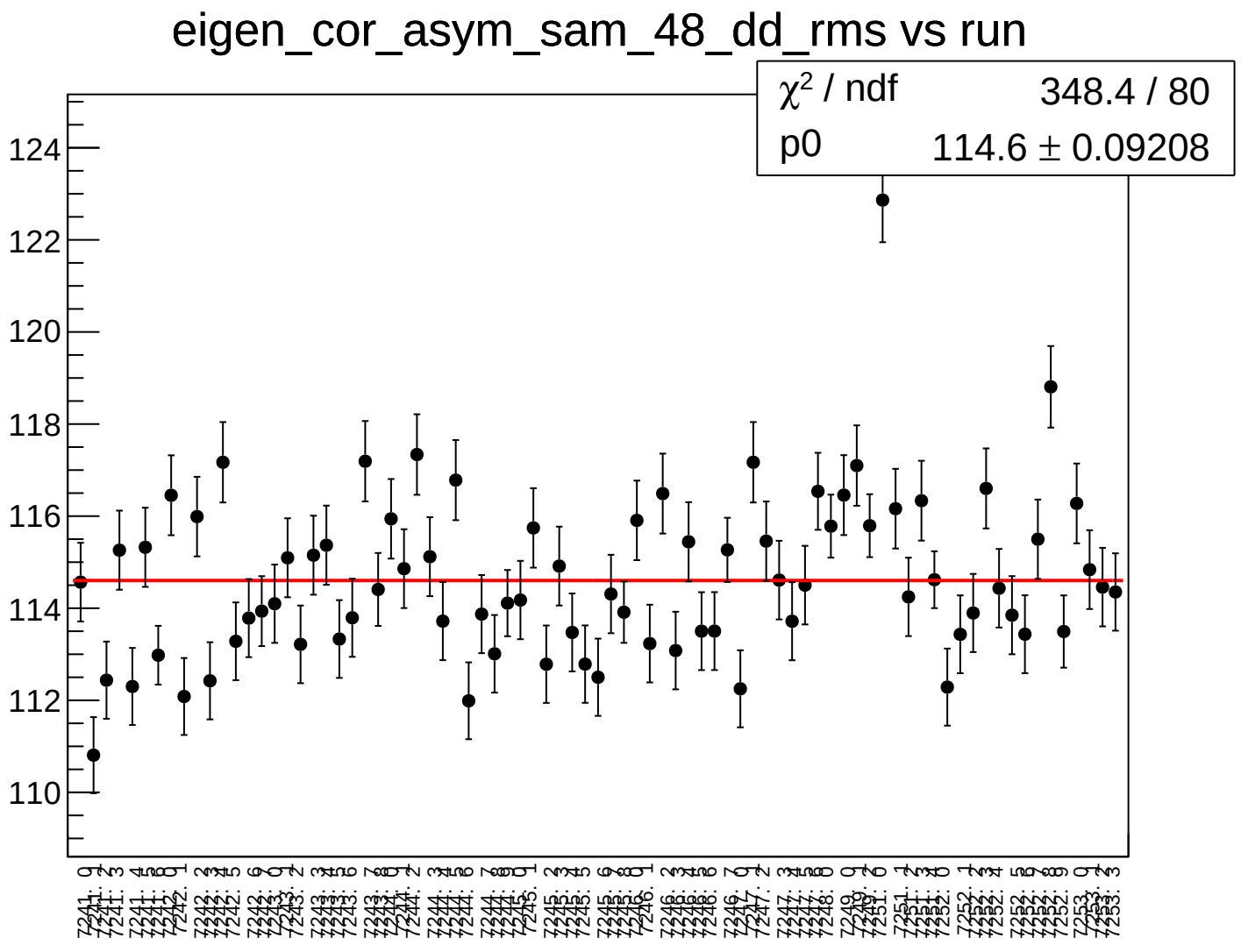

asym_sam_48_dd_cor_correction_mean vs run
χ² / ndf 72.07 / 80
p0 −1319 ± 842.2
pull
Entries 81
Mean 29.22
Std Dev 0

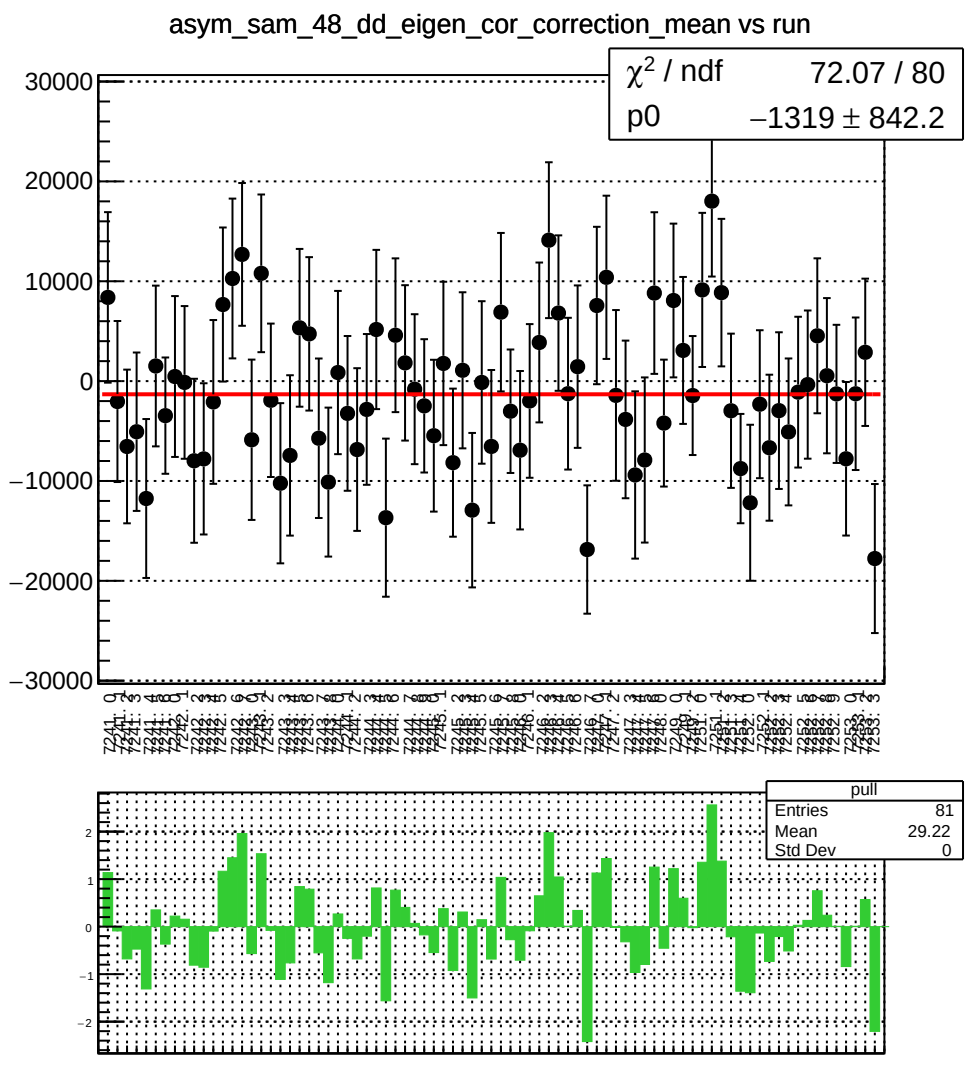

pull1D
Entries 81
Mean 0.01706
Std Dev 0.9431

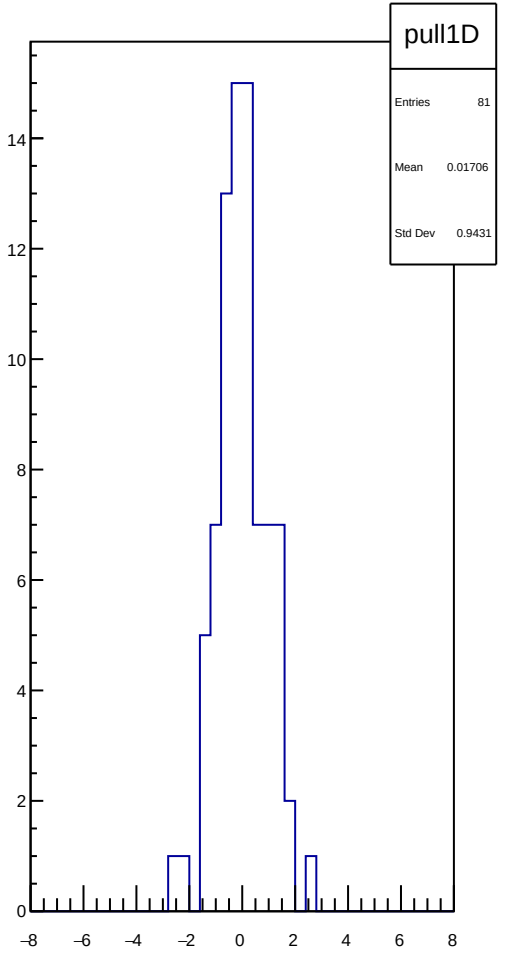

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 1845 / 80
p0 740.8 ± 0.5955
820
800
780
760
740
720
700
680

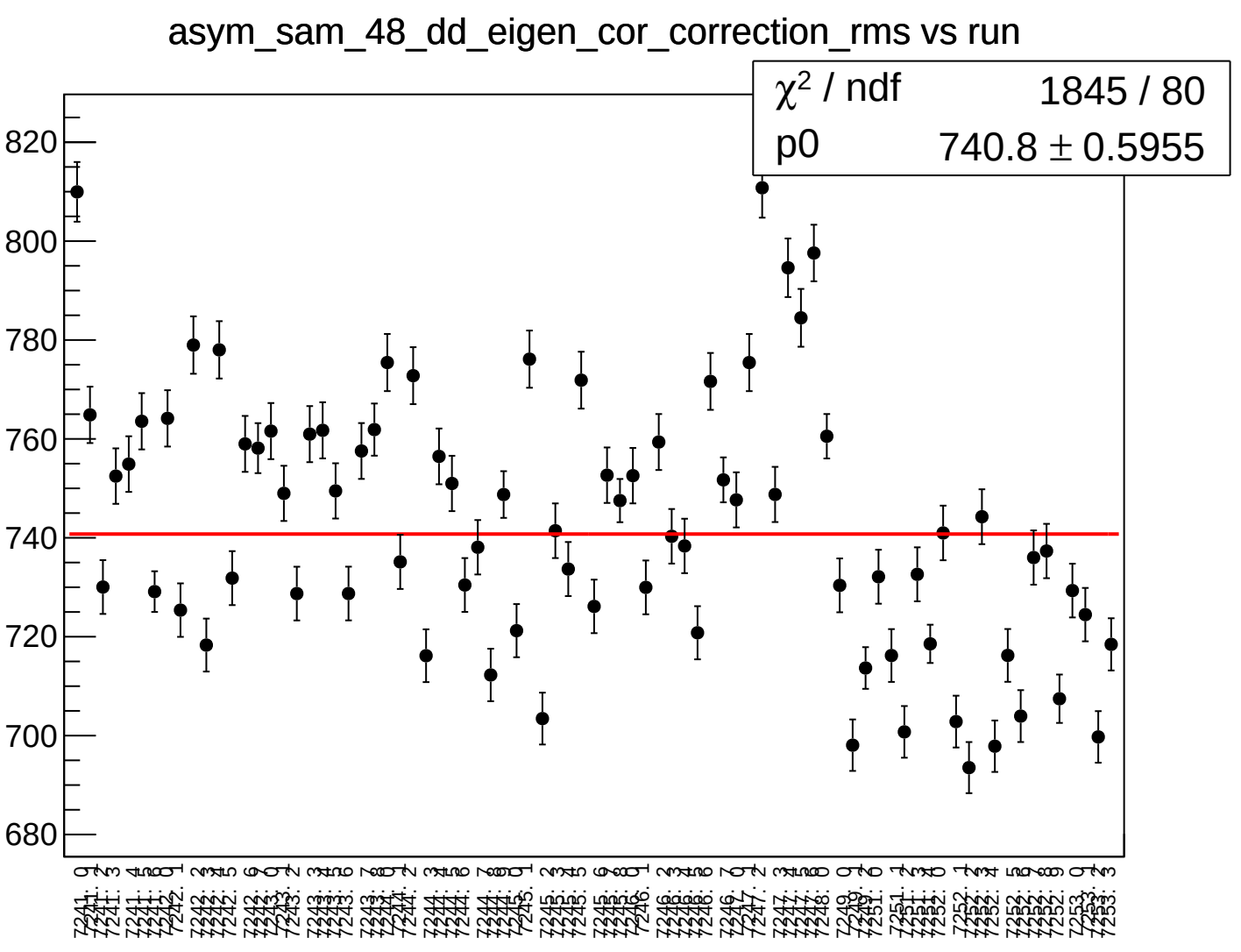

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 102.6 / 80
p0 483.4 ± 130.2
6000
4000
2000
0
−2000
−4000
pull
Entries 81
Mean 353.8
Std Dev 0
3
2
1
0
−1
−2

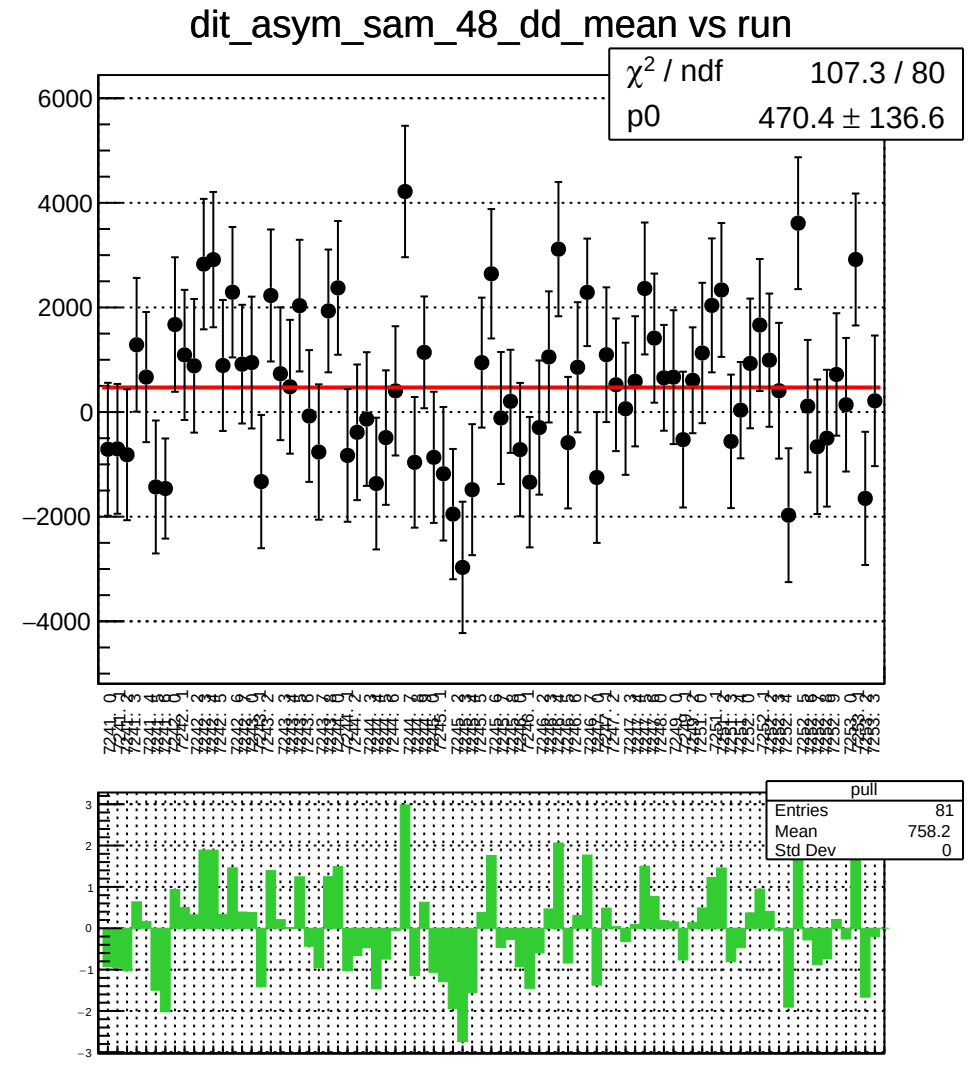

pull1D
Entries 81
Mean 0.004184
Std Dev 1.126
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

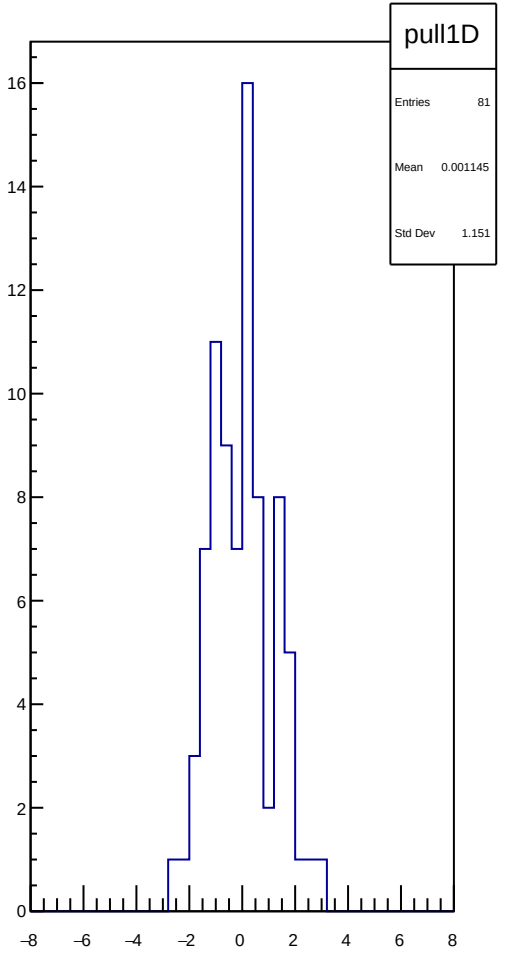

eigen_cor_asym_sam_48_dd_rms vs run
χ^2 / ndf 348.4 / 80
p0 114.6 ± 0.09208
124
122
120
118
116
114
112
110

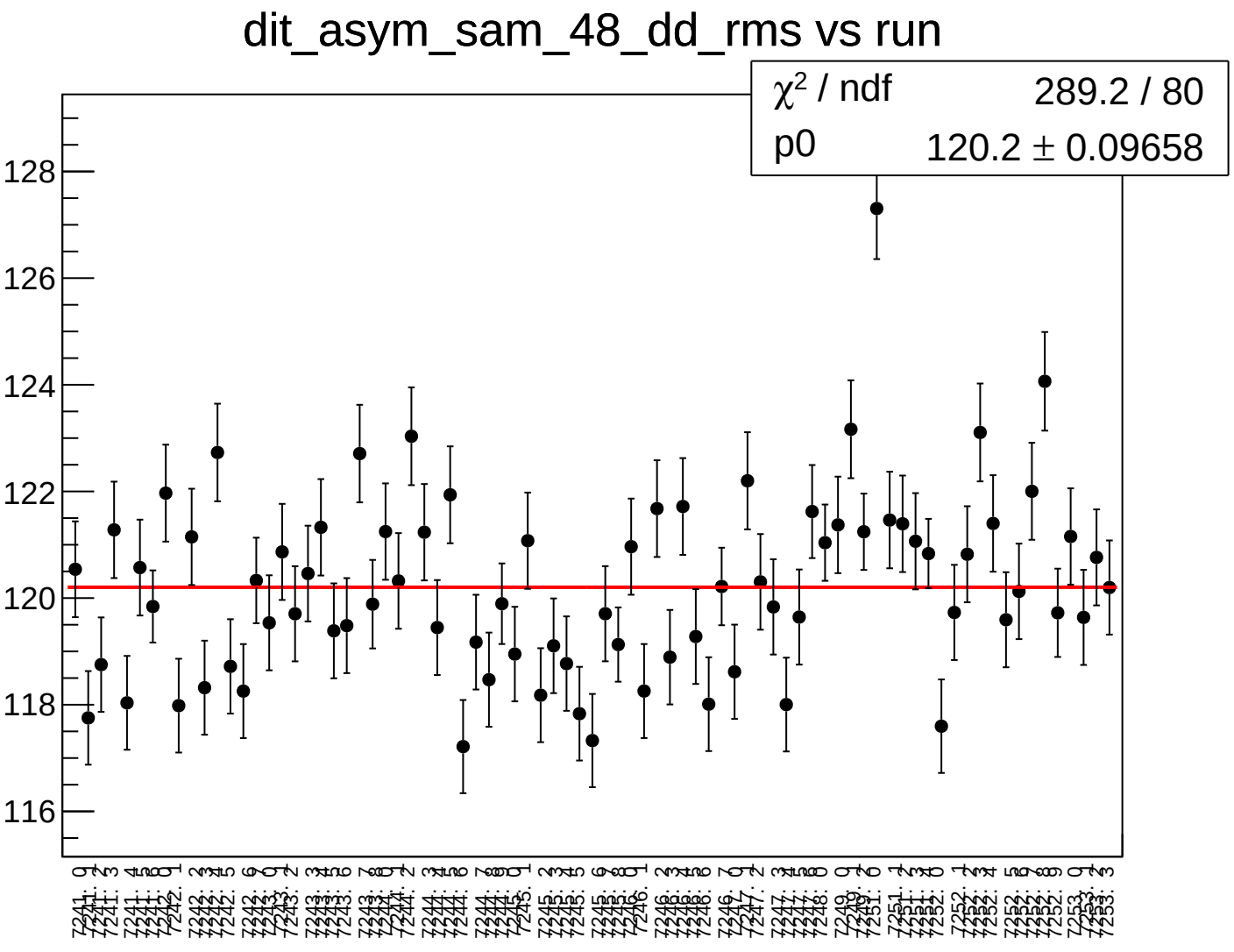

asym_sam_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 72.07 / 80
p0 −1319 ± 842.2
pull
Entries 81
Mean 29.22
Std Dev 0

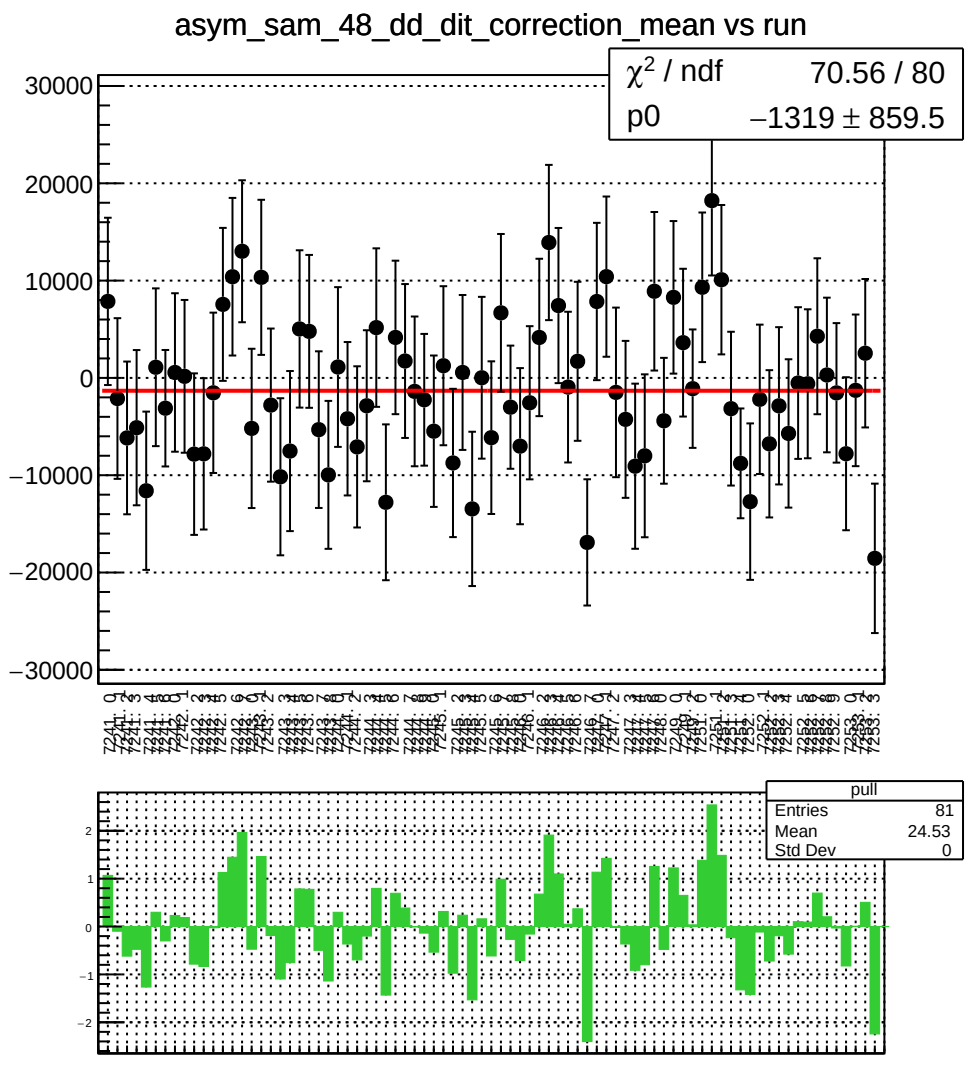

pull1D
Entries 81
Mean 0.01706
Std Dev 0.9431

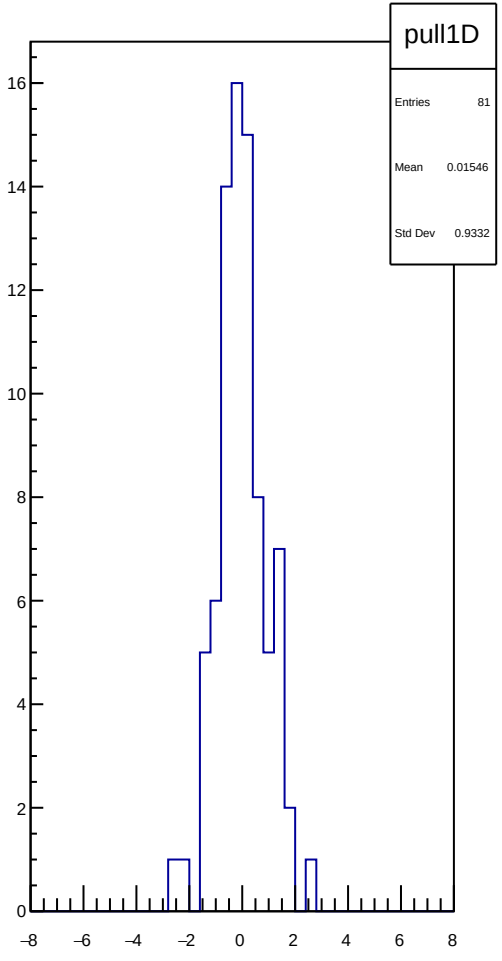

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1845 / 80
p0 740.8 ± 0.5955
820
800
780
760
740
720
700
680

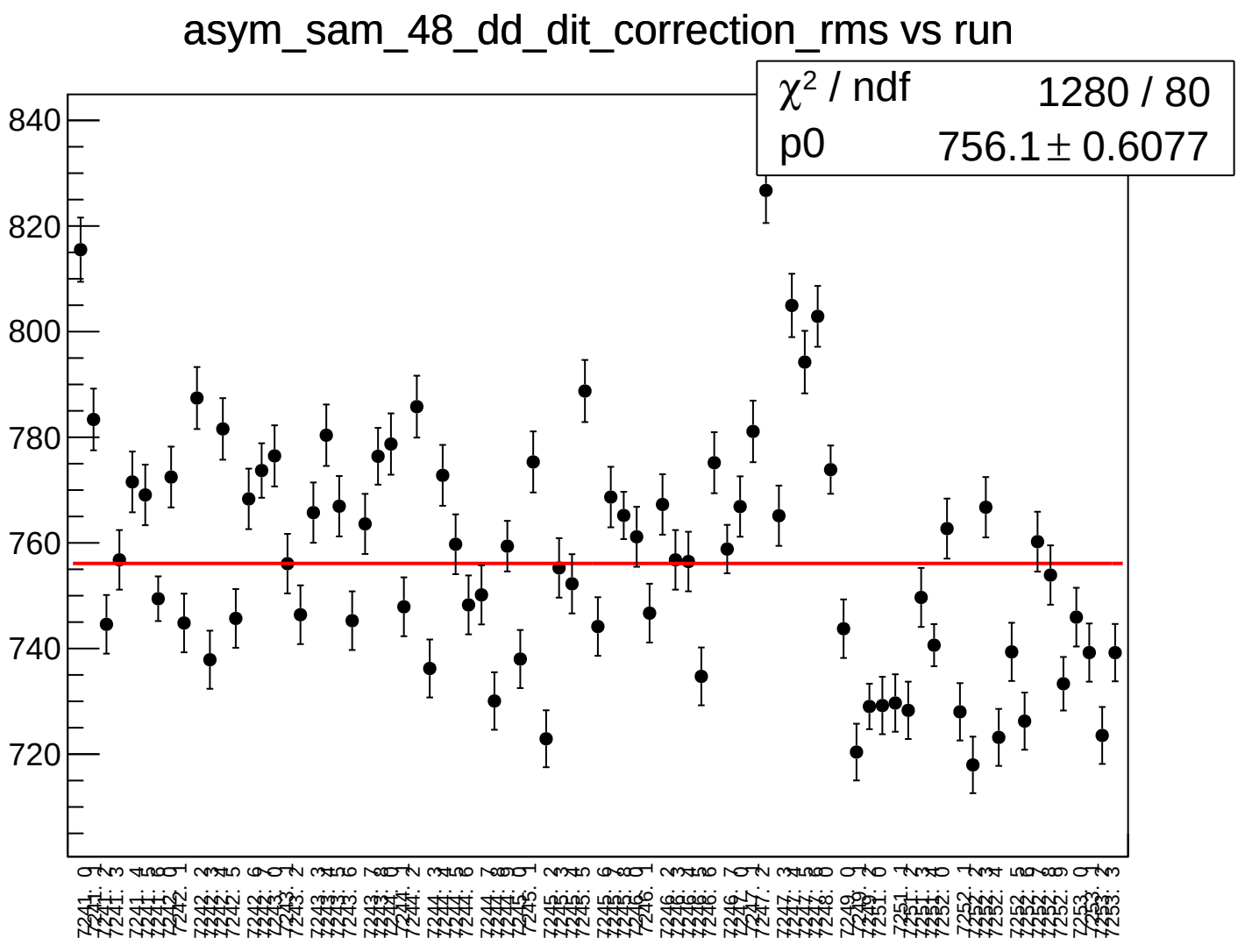

dit_asym_sam_48_dd_mean vs run
χ² / ndf 107.3 / 80
p0 470.4 ± 136.6
pull
Entries 81
Mean 758.2
Std Dev 0

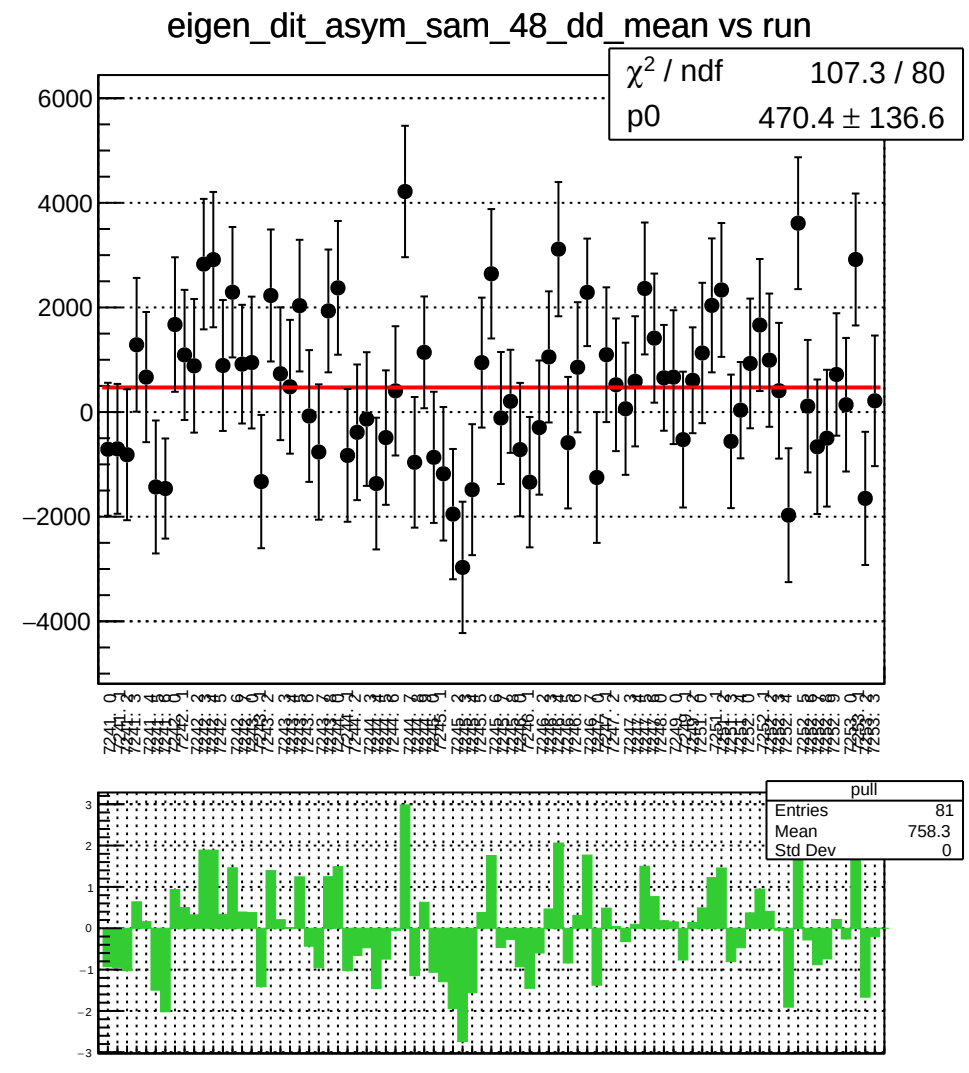

pull1D
Entries 81
Mean 0.001145
Std Dev 1.151

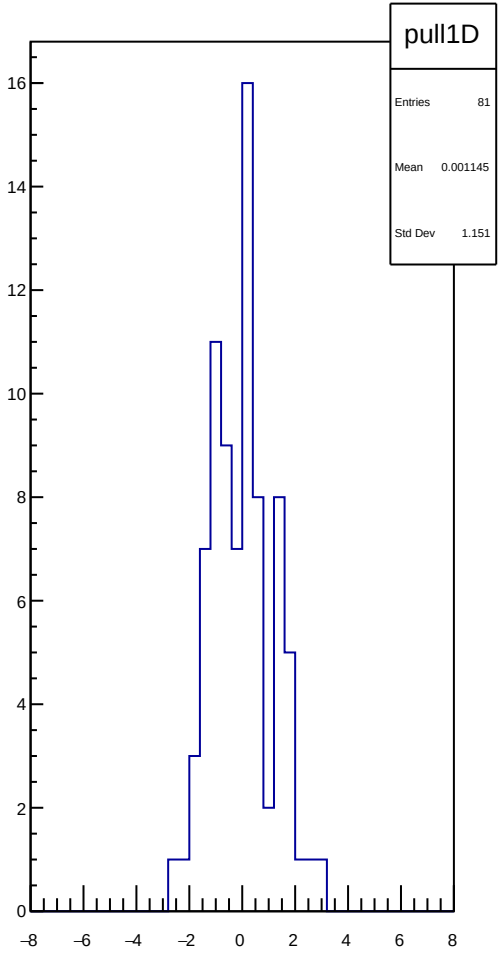

dit_asym_sam_48_dd_rms vs run
χ^2 / ndf 289.2 / 80
p0 120.2 ± 0.09658
128
126
124
122
120
118
116

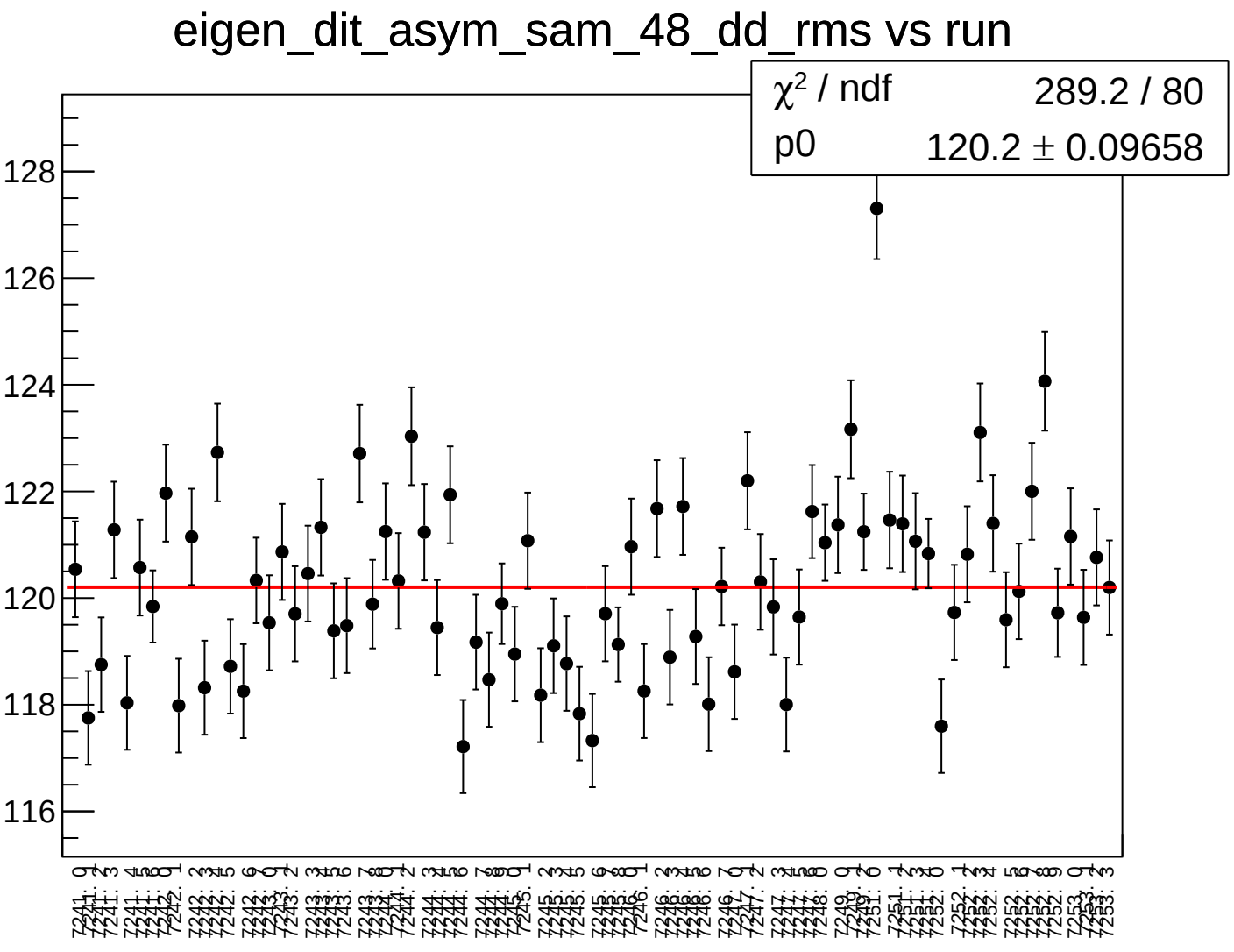

asym_sam_48_dd_dit_correction_mean vs run
χ² / ndf 70.56 / 80
p0 −1319 ± 859.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean 24.53
Std Dev 0
2
1
0
−1
−2

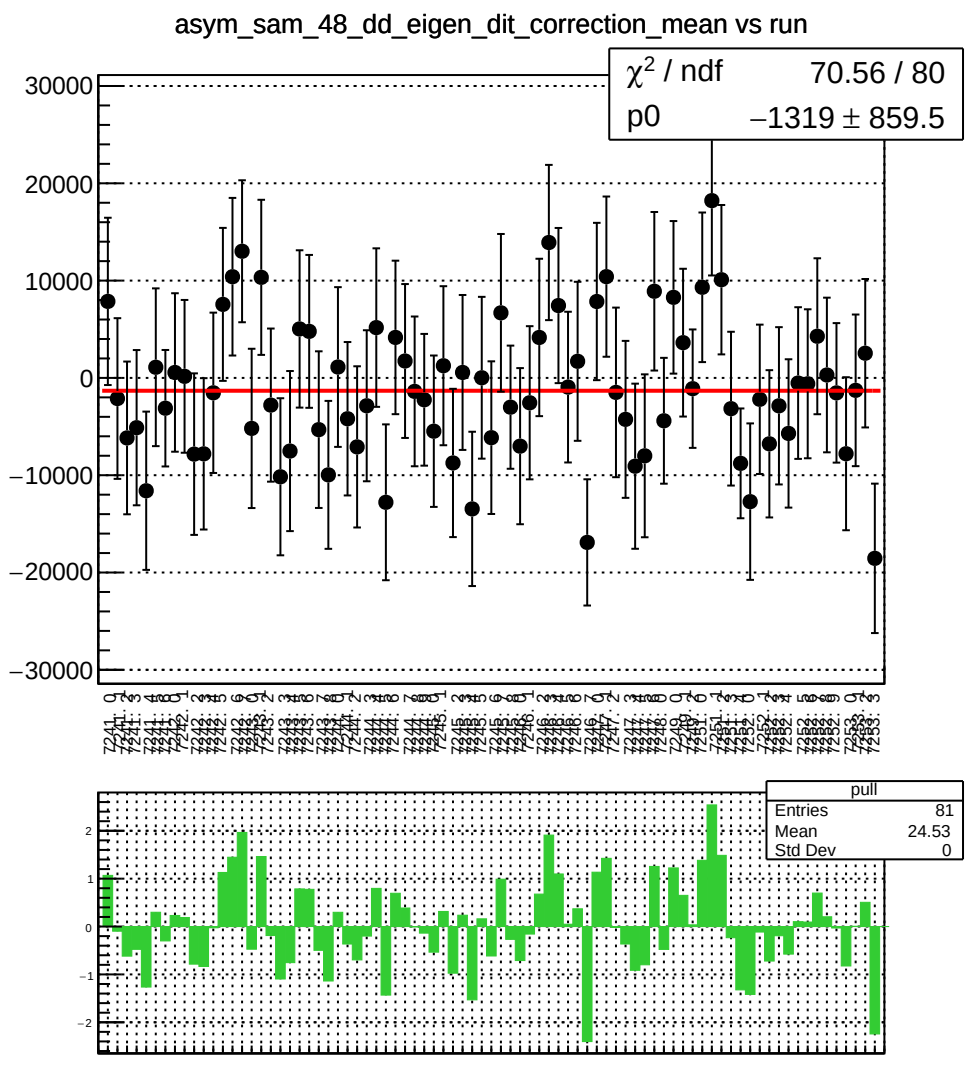

pull1D
Entries 81
Mean 0.01546
Std Dev 0.9332
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

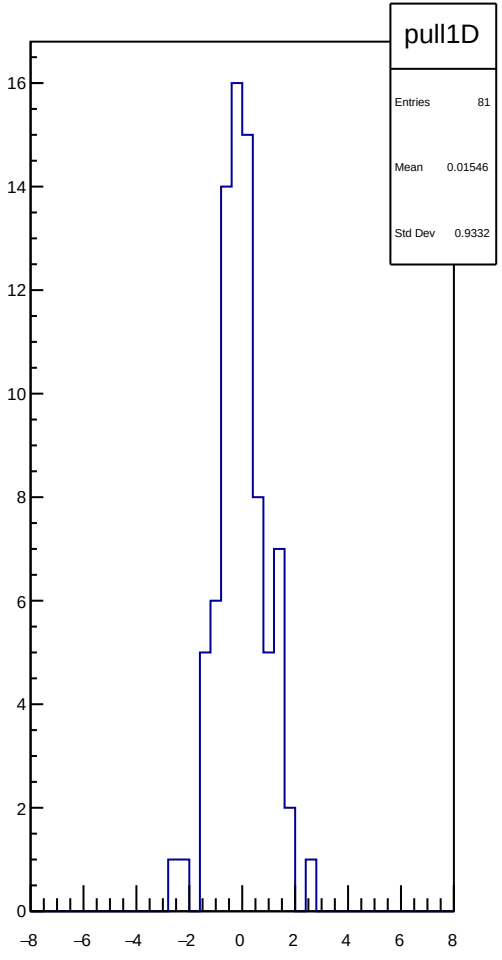

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 1280 / 80
p0 756.1 ± 0.6077
840
820
800
780
760
740
720

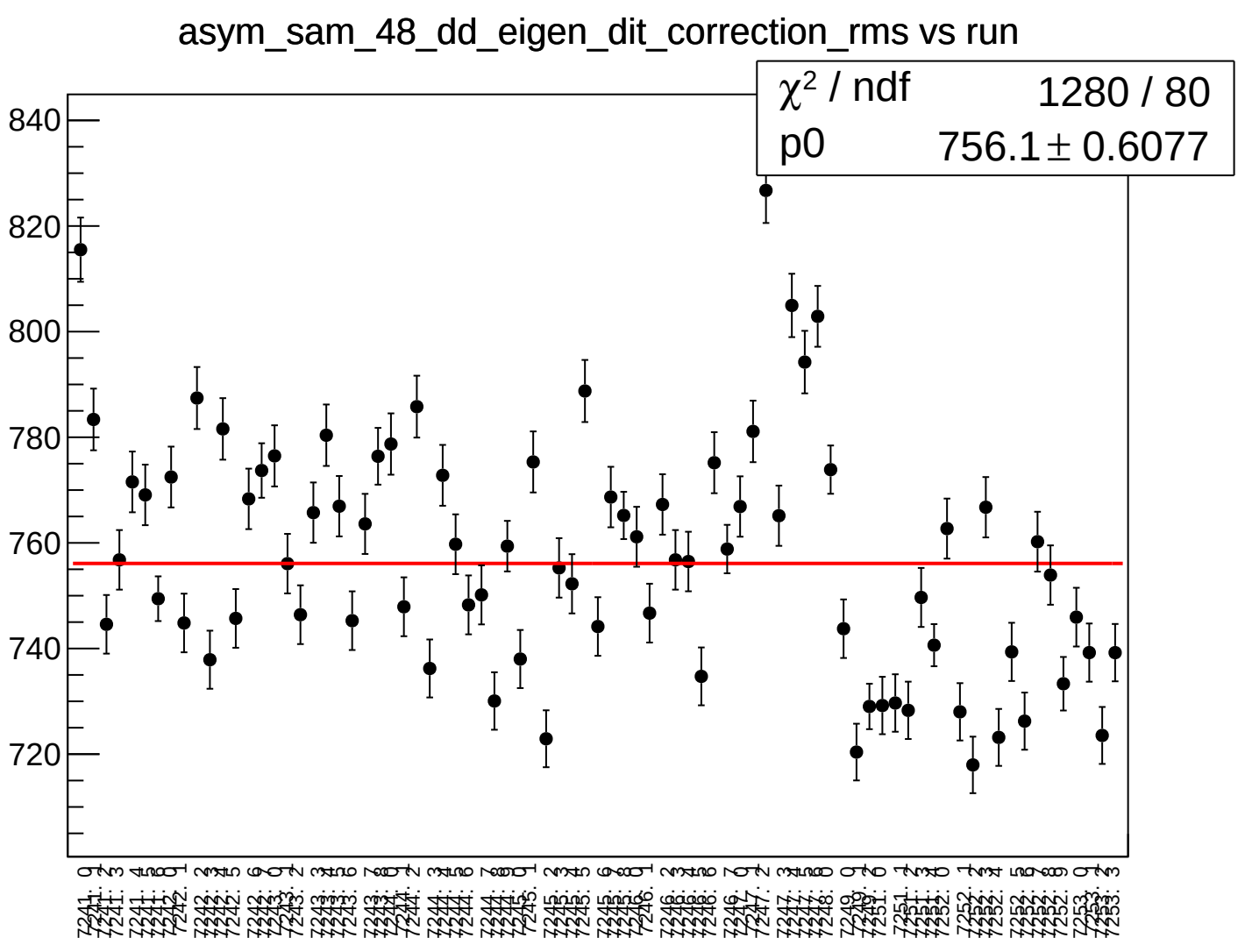

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 107.3 / 80
p0 470.4 ± 136.6
6000
4000
2000
0
−2000
−4000
pull
Entries 81
Mean 758.3
Std Dev 0
3
2
1
0
−1
−2
−3

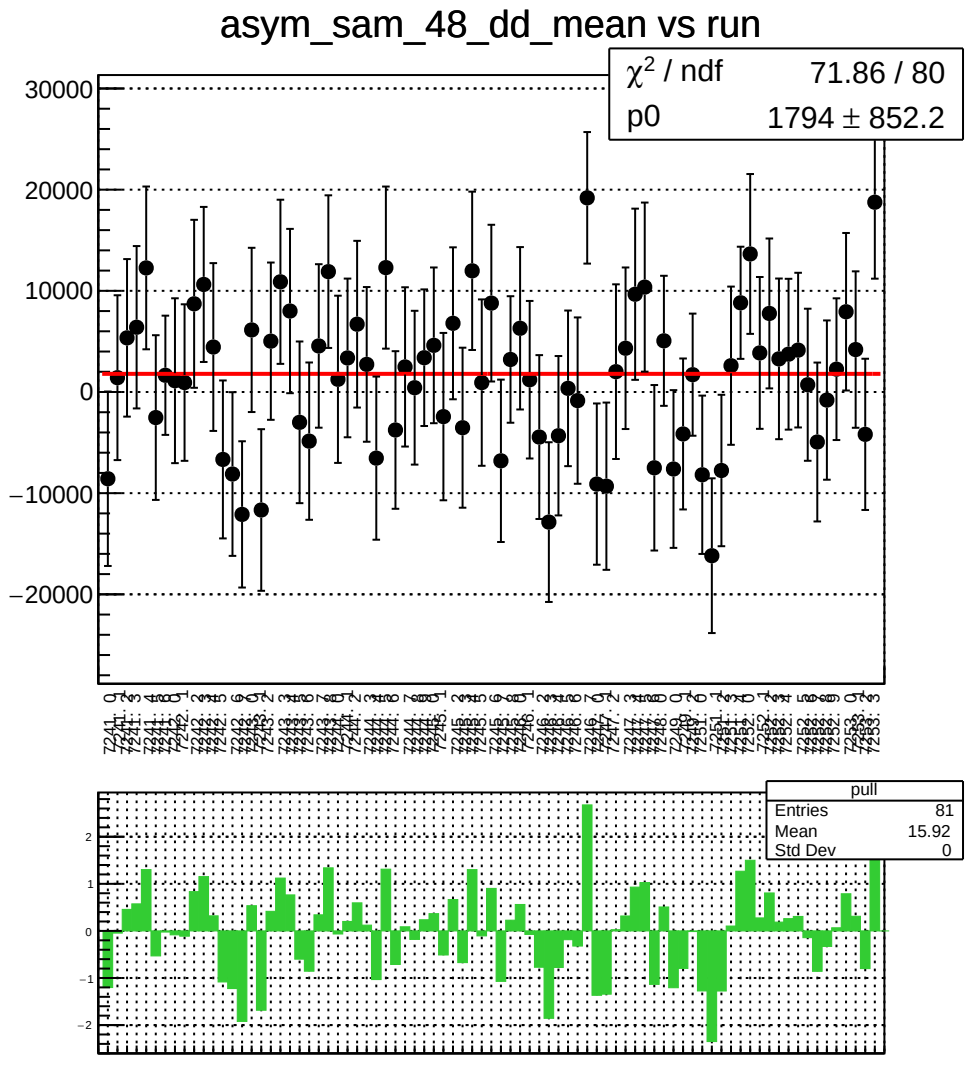

pull1D
Entries 81
Mean 0.001145
Std Dev 1.151
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

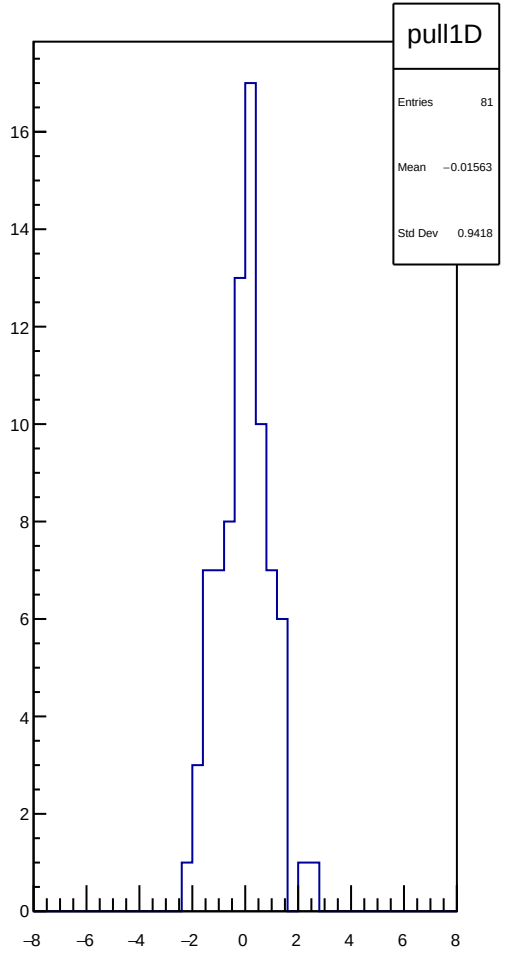

eigen_dit_asym_sam_48_dd_rms vs run
χ² / ndf 289.2 / 80
p0 120.2 ± 0.09658
128
126
124
122
120
118
116

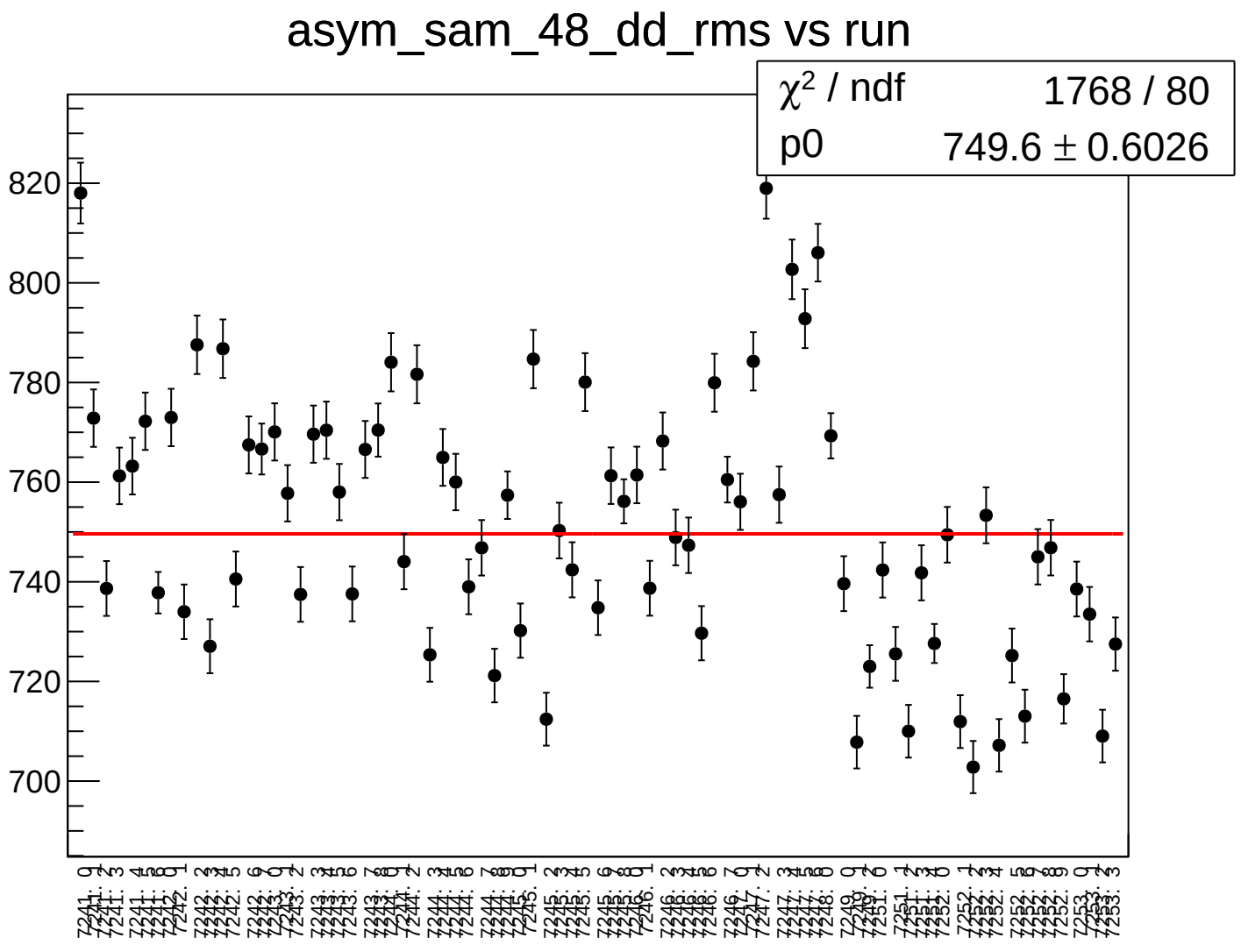

asym_sam_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 70.56 / 80
p0 −1319 ± 859.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean 24.53
Std Dev 0
2
1
0
−1
−2

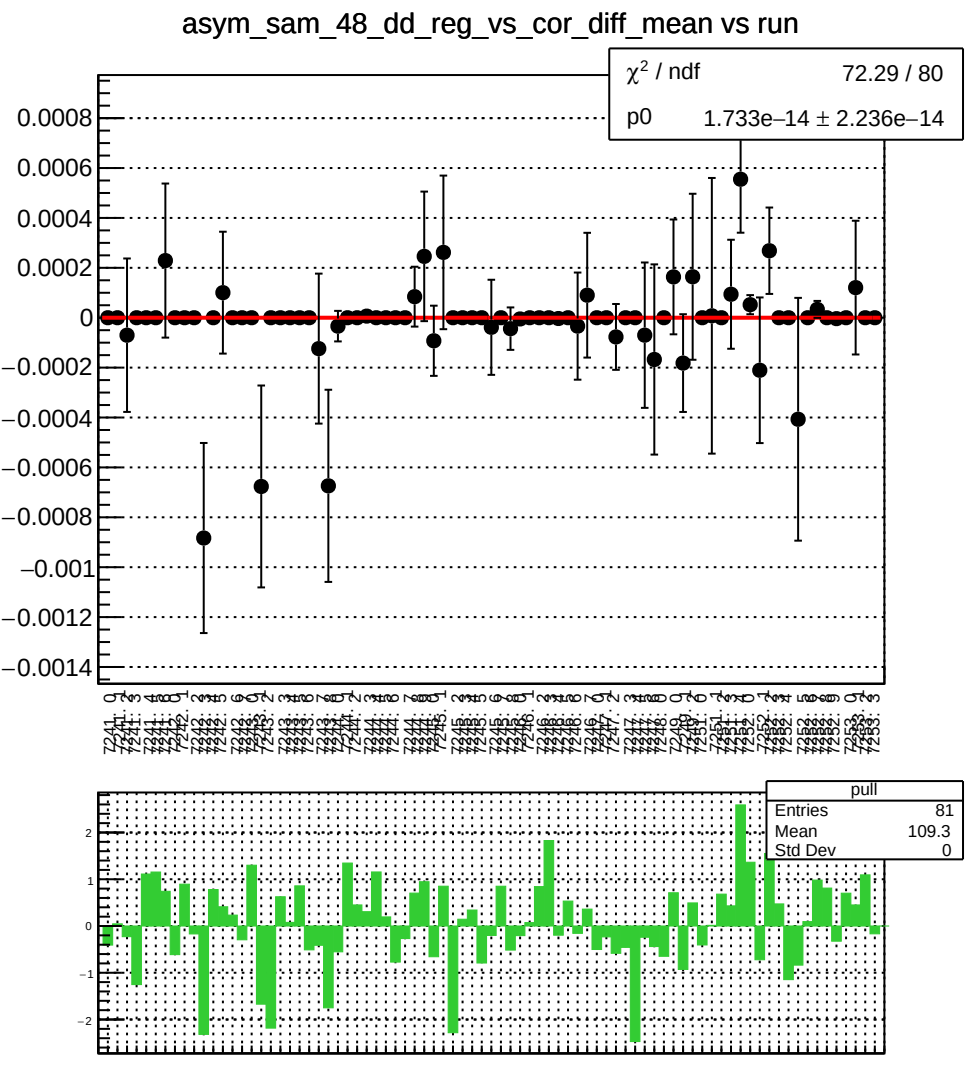

pull1D
Entries 81
Mean 0.01546
Std Dev 0.9332
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

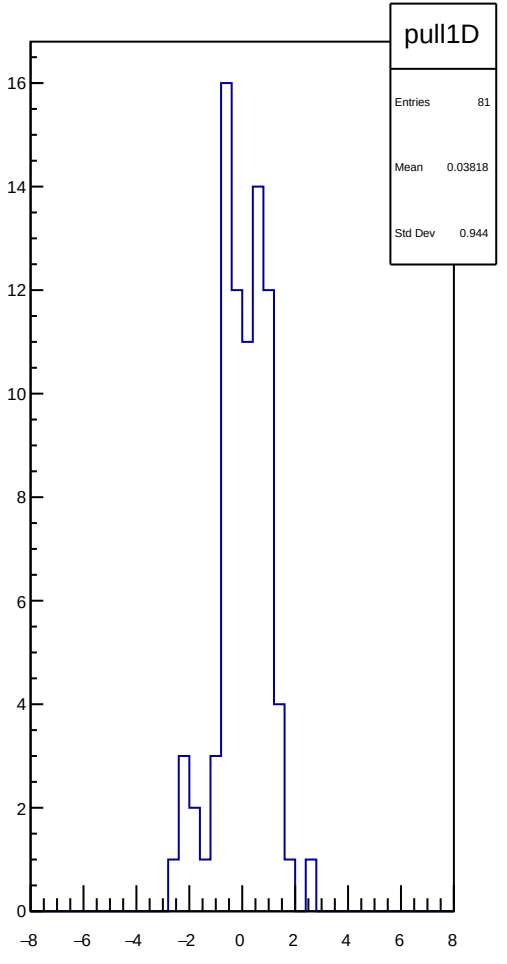

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1280 / 80
p0 756.1 ± 0.6077
840
820
800
780
760
740
720

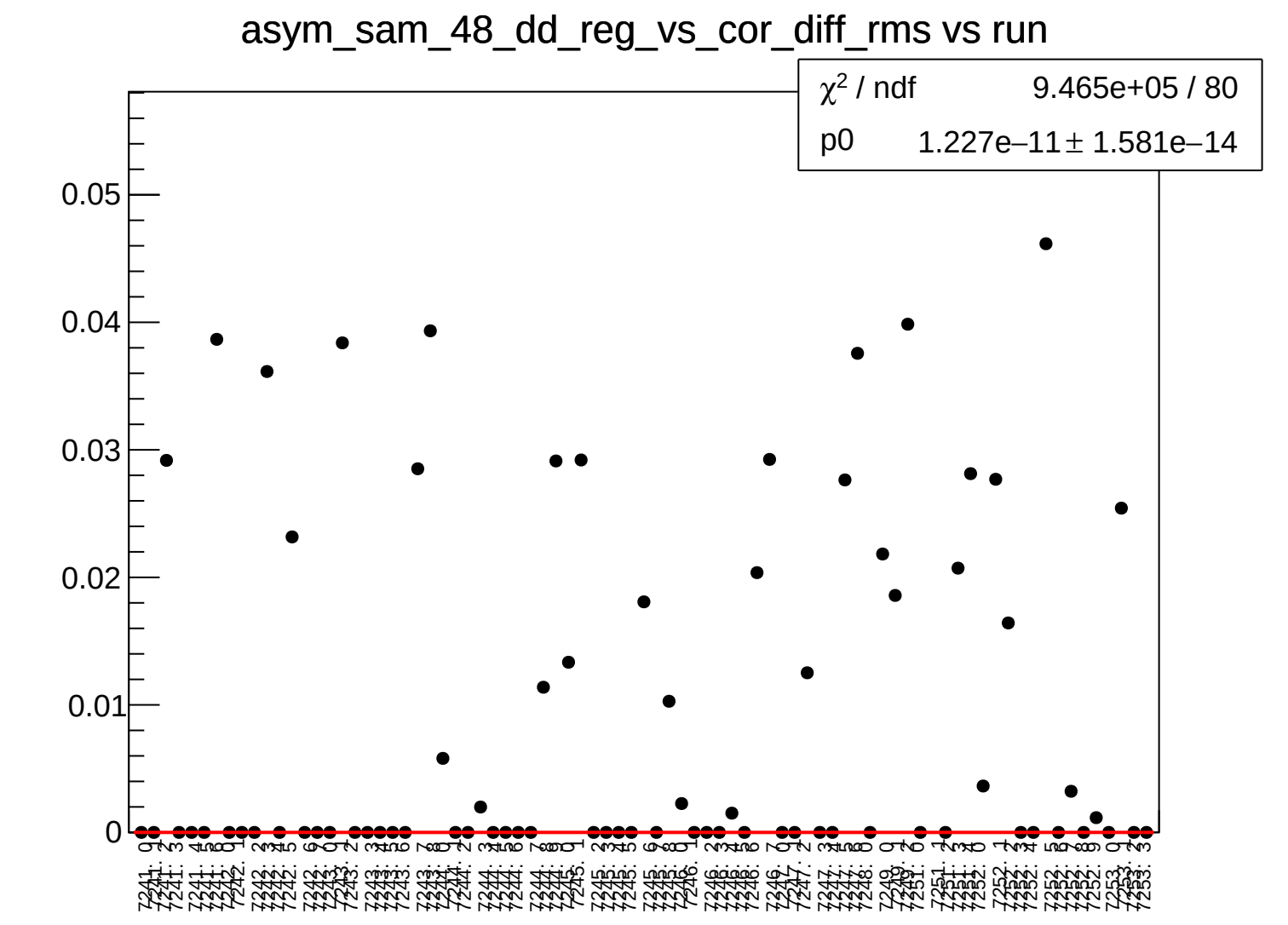

asym_sam_48_dd_mean vs run
χ² / ndf 71.86 / 80
p0 1794 ± 852.2
30000
20000
10000
0
−10000
−20000
pull
Entries 81
Mean 15.92
Std Dev 0
2
1
0
−1
−2

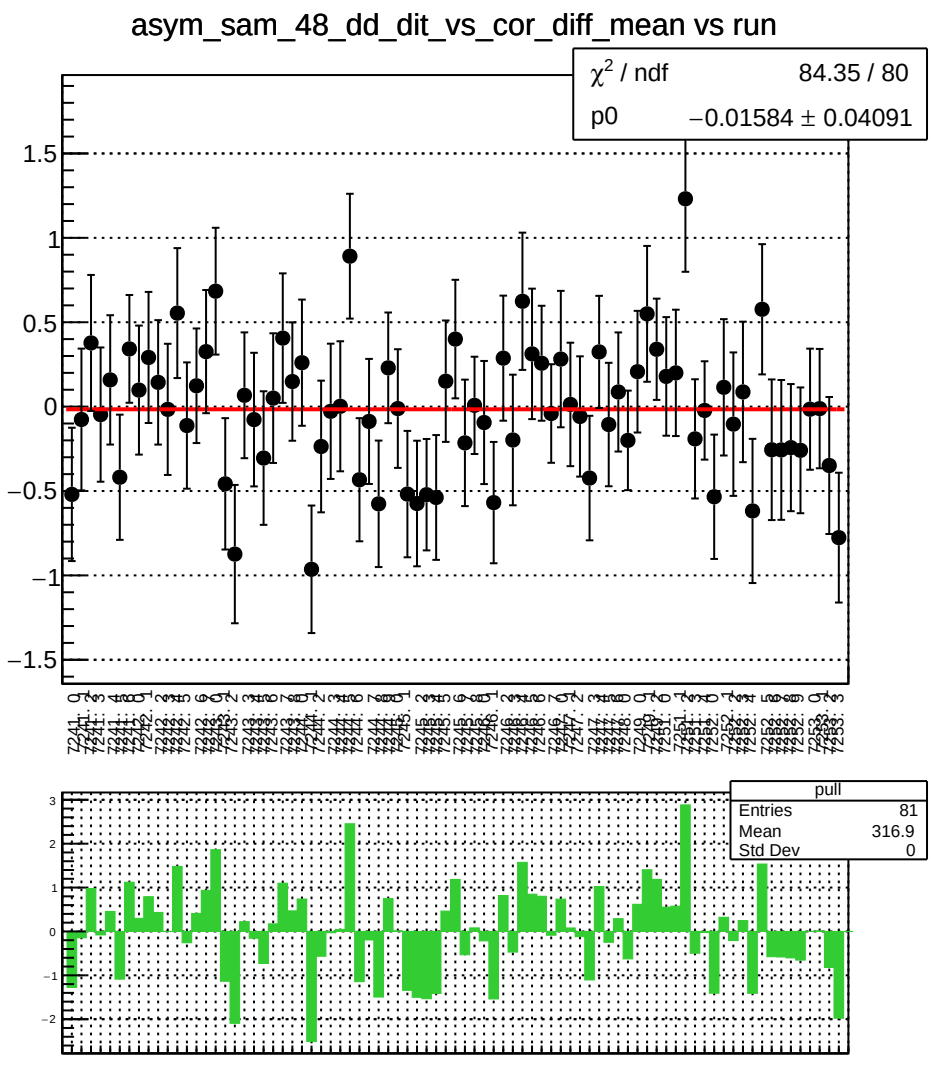

pull1D
Entries 81
Mean −0.01563
Std Dev 0.9418
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

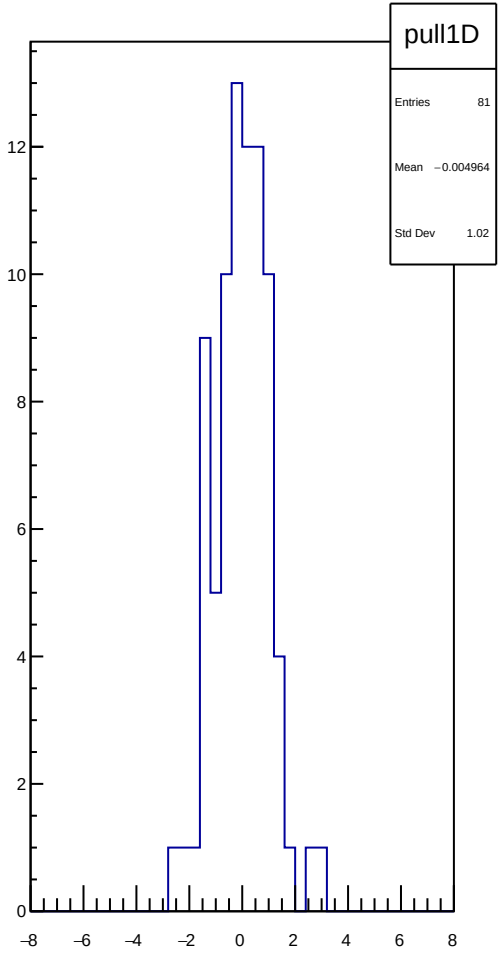

asym_sam_48_dd_rms vs run
χ² / ndf 1768 / 80
p0 749.6 ± 0.6026
820
800
780
760
740
720
700

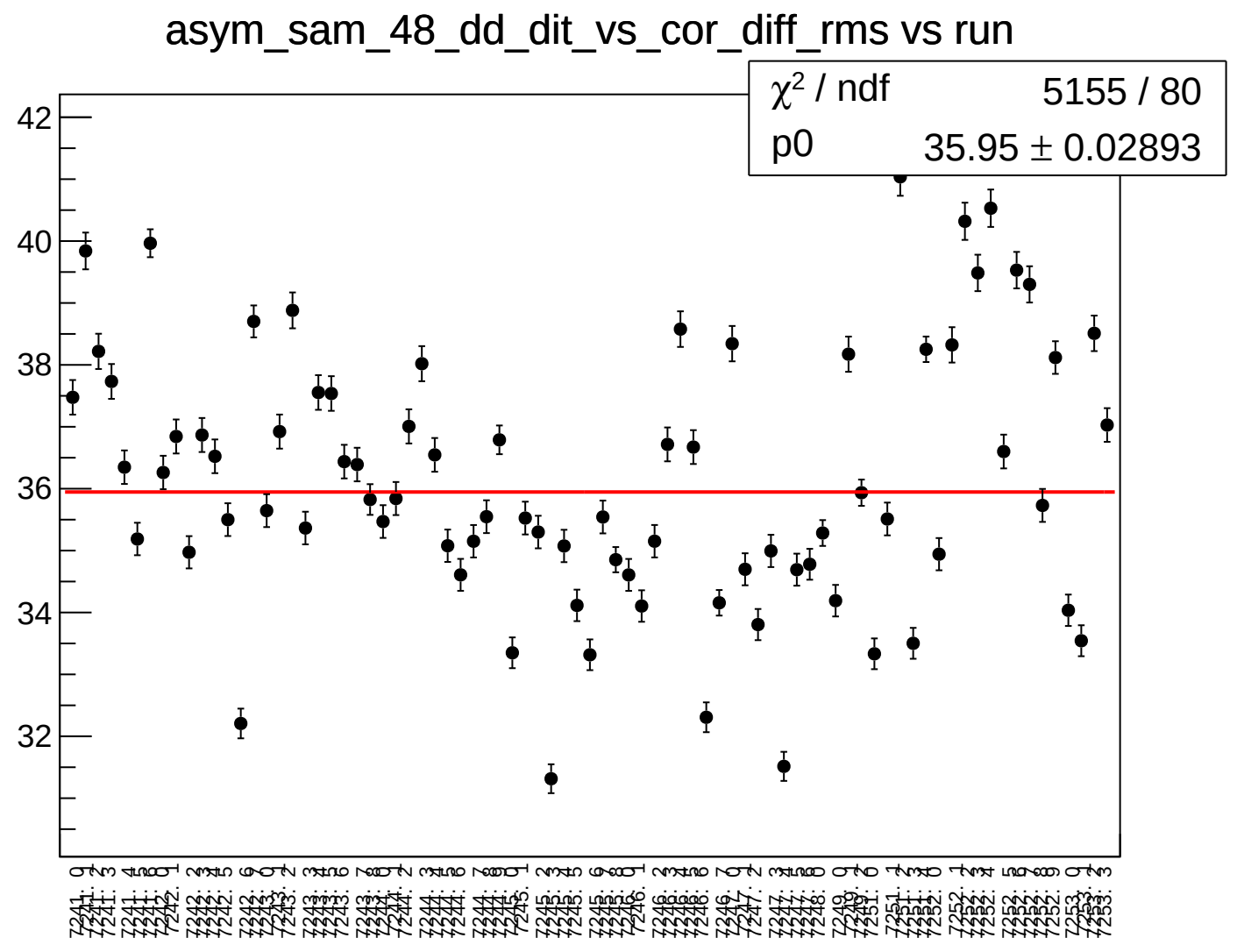

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 72.29 / 80
p0 1.733e−14 ± 2.236e−14
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
−0.0014
pull
Entries 81
Mean 109.3
Std Dev 0
2
1
0
−1
−2

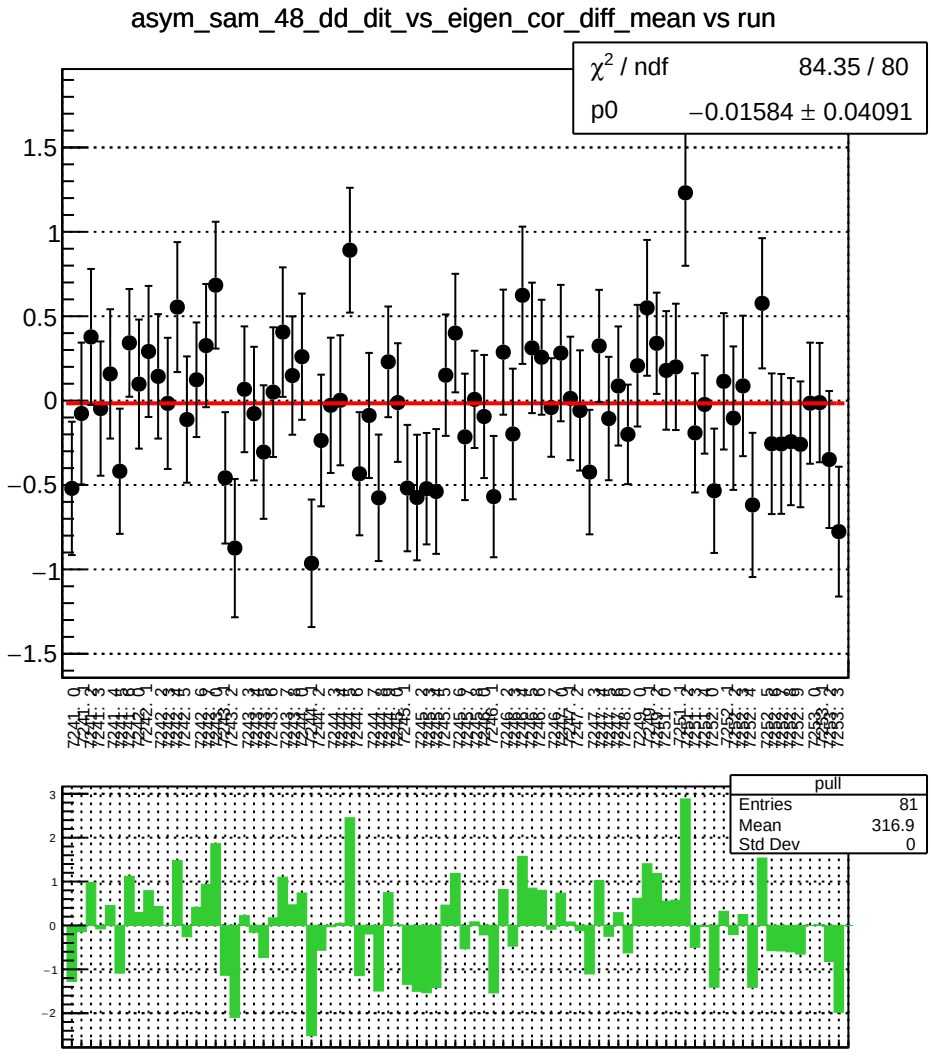

pull1D
Entries 81
Mean 0.03818
Std Dev 0.944
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

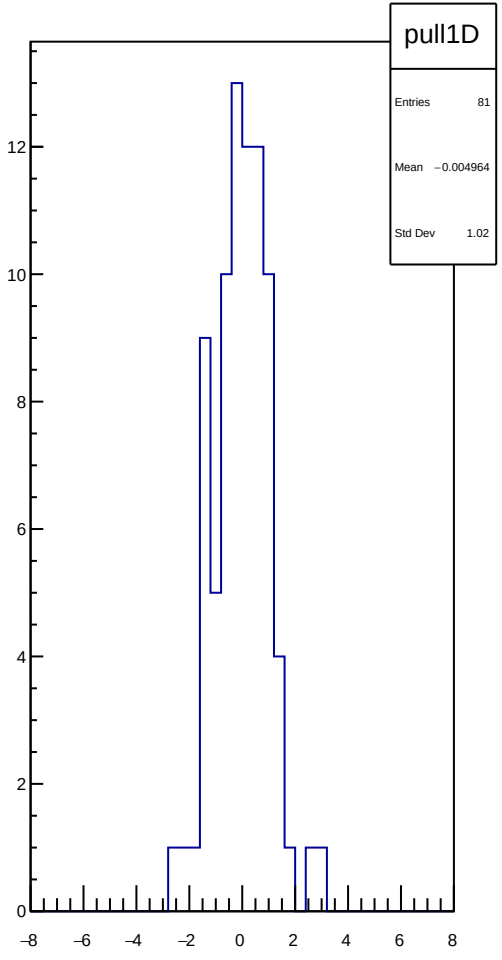

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ^2 / ndf 9.465e+05 / 80
p0 1.227e−11 ± 1.581e−14
0.05
0.04
0.03
0.02
0.01
0

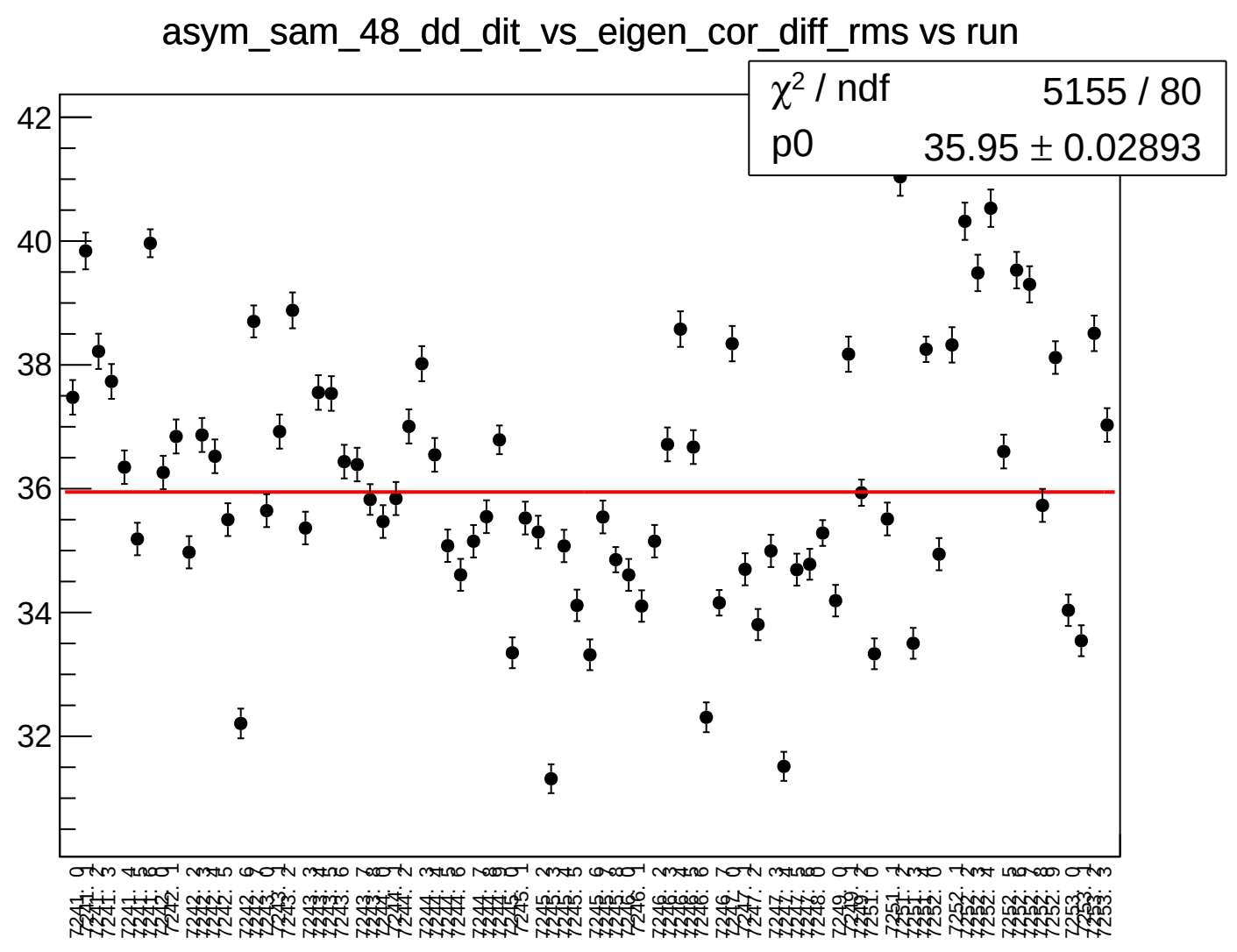

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 84.35 / 80
p0 −0.01584 ± 0.04091
pull
Entries 81
Mean 316.9
Std Dev 0

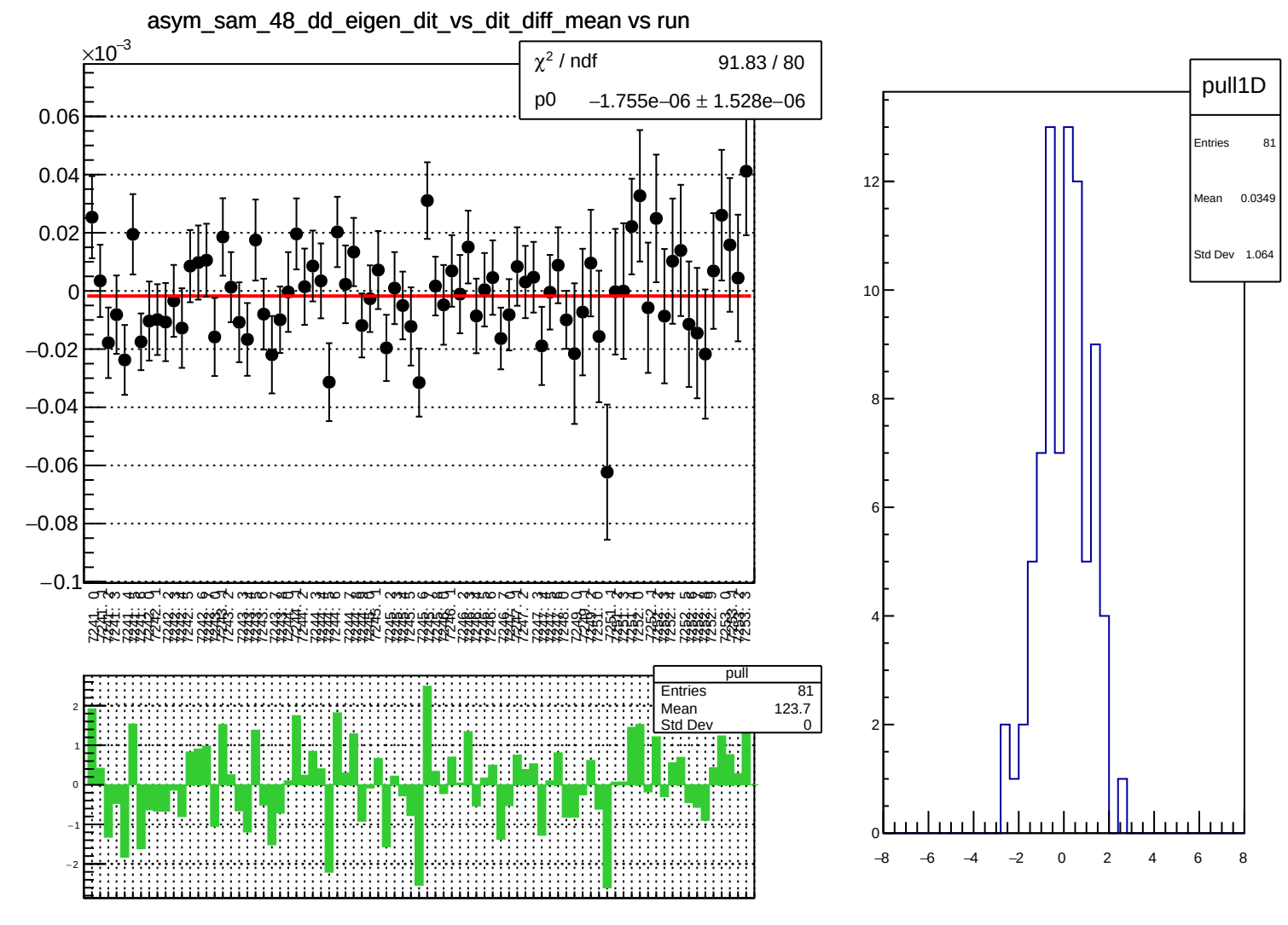

pull1D
Entries 81
Mean −0.004964
Std Dev 1.02

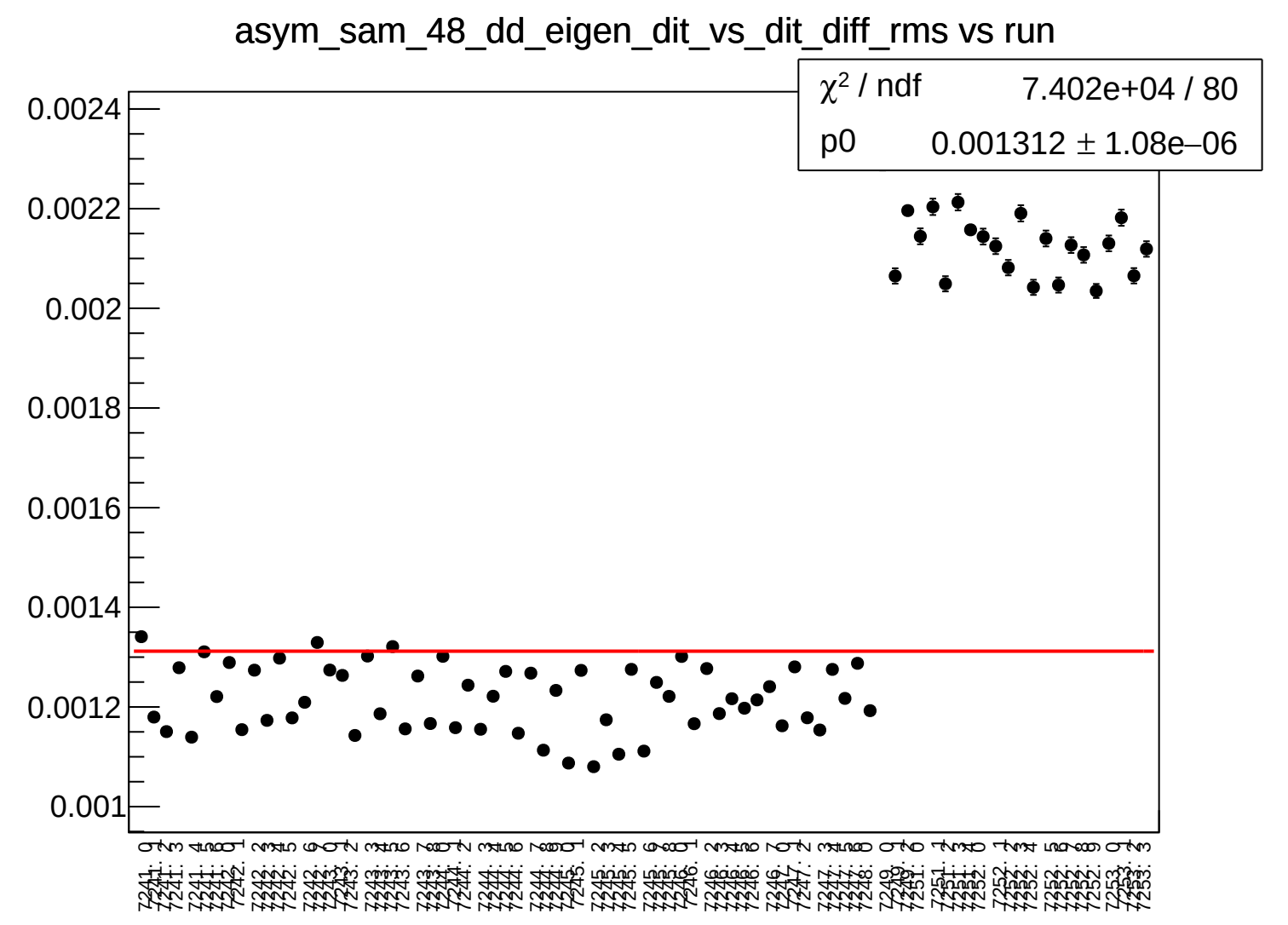

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5155 / 80
p0 35.95 ± 0.02893
42
40
38
36
34
32

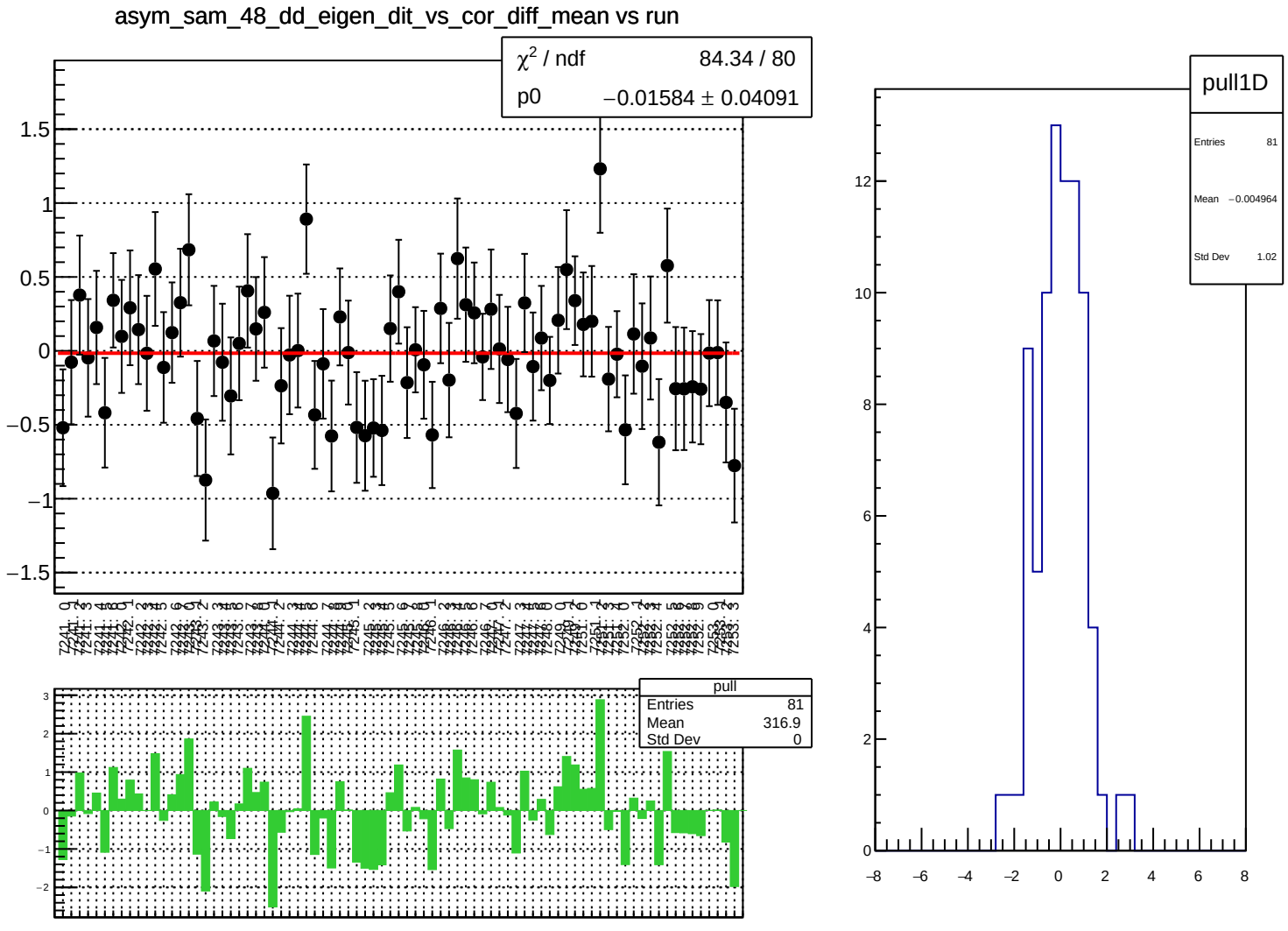

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.35 / 80
p0 −0.01584 ± 0.04091
pull
Entries 81
Mean 316.9
Std Dev 0

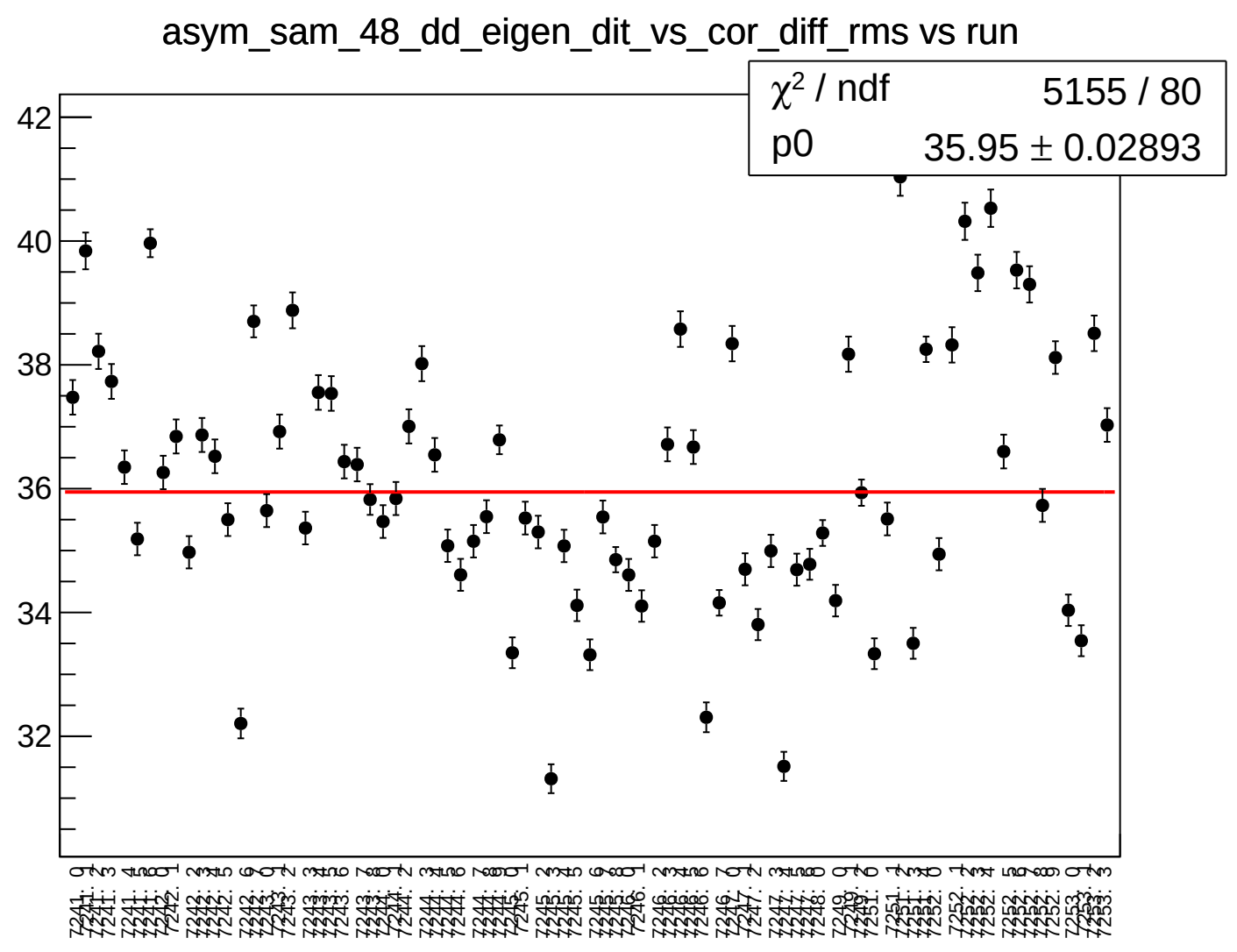

pull1D
Entries 81
Mean −0.004964
Std Dev 1.02

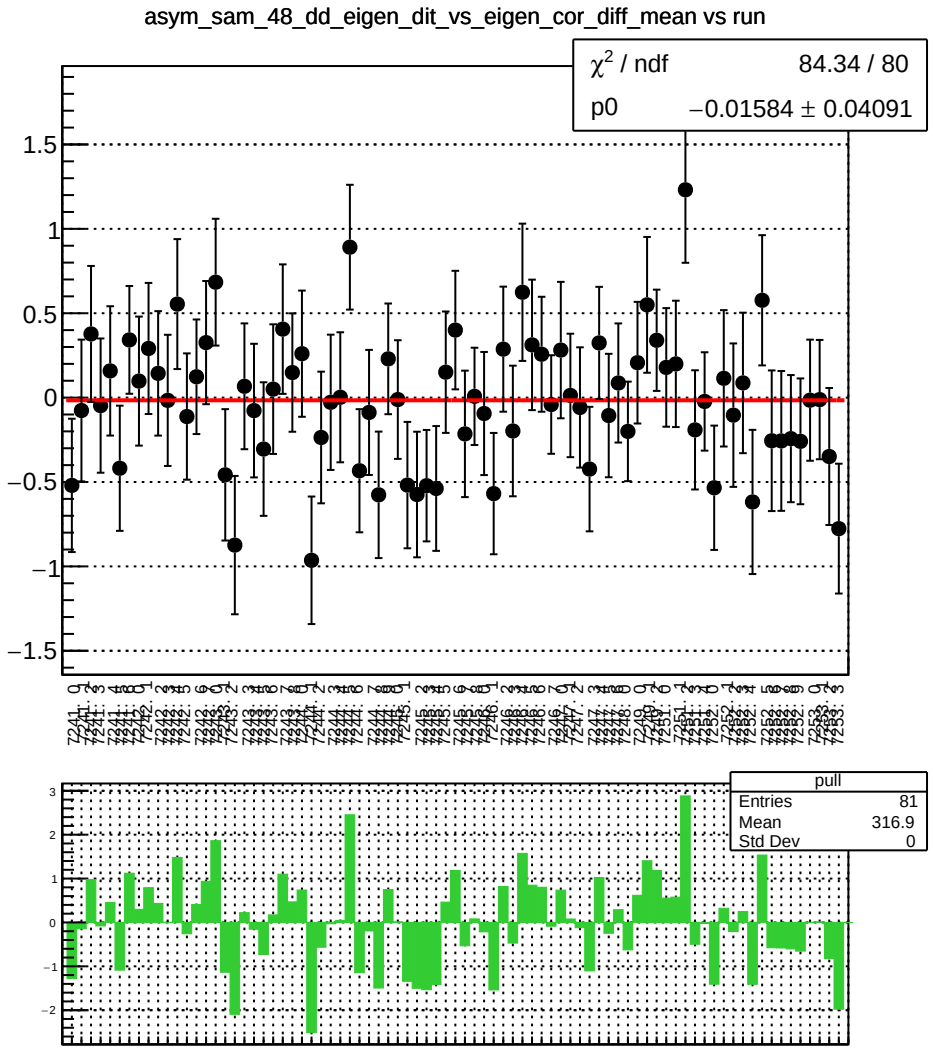

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5155 / 80
p0 35.95 ± 0.02893
42
40
38
36
34
32

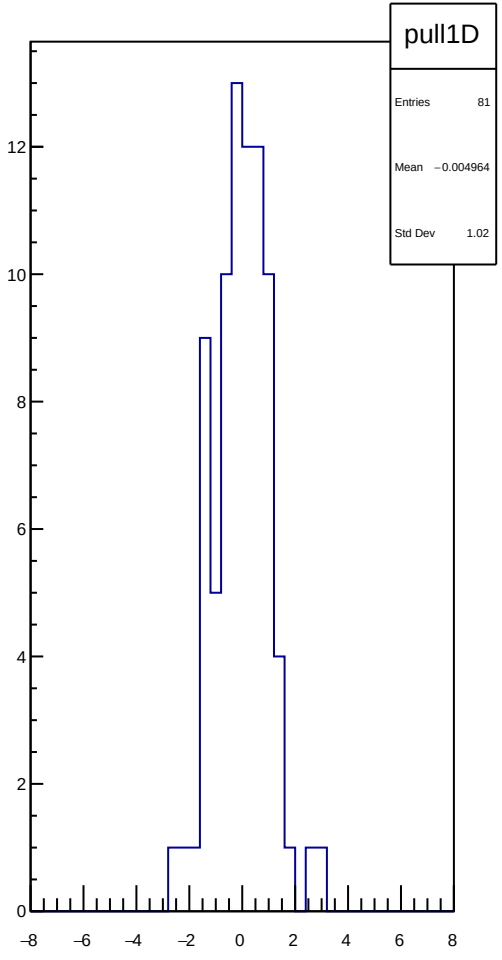

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.83 / 80
p0 −1.755e−06 ± 1.528e−06
pull
Entries 81
Mean 123.7
Std Dev 0
pull1D
Entries 81
Mean 0.0349
Std Dev 1.064

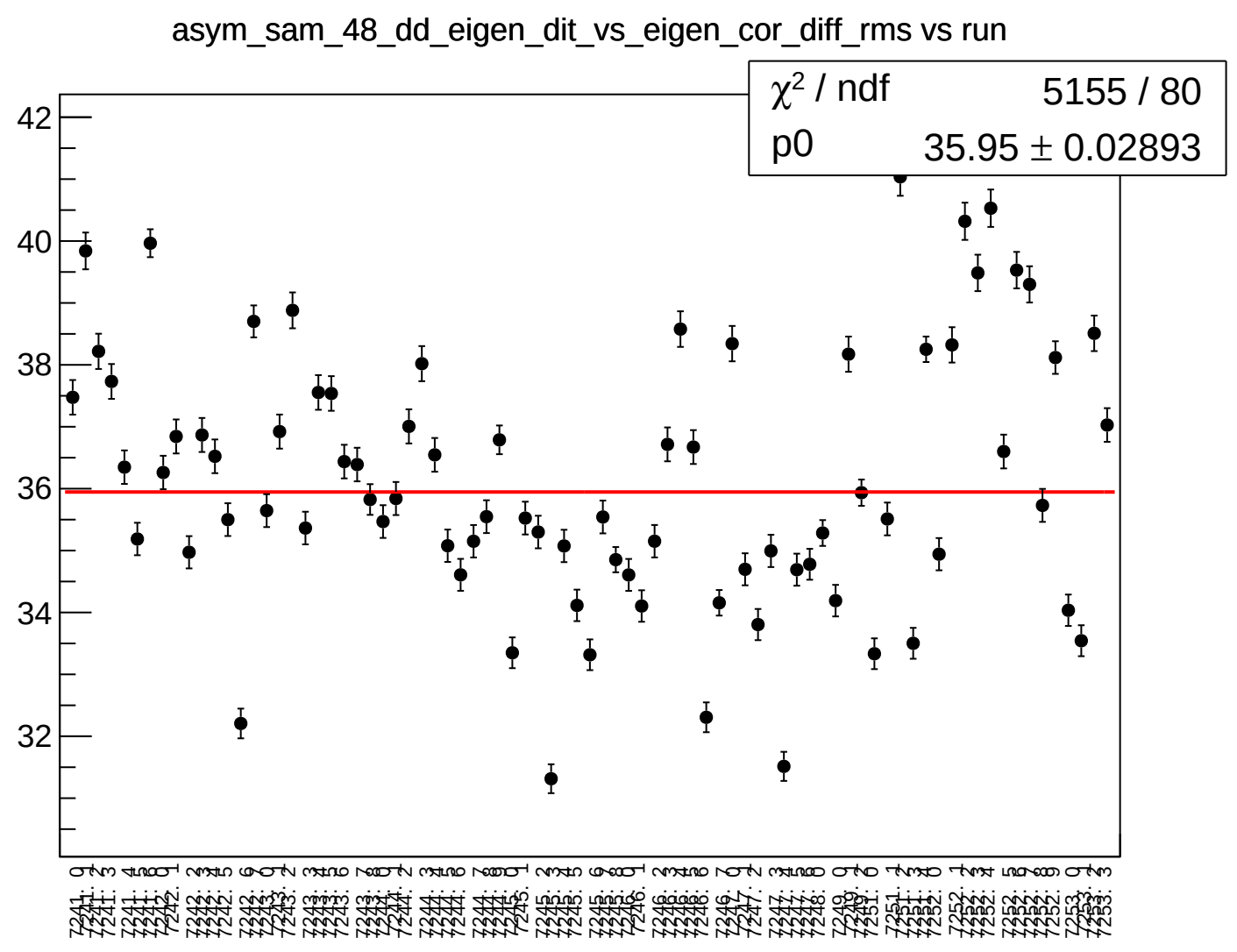

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.402e+04 / 80
p0 0.001312 ± 1.08e−06
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001

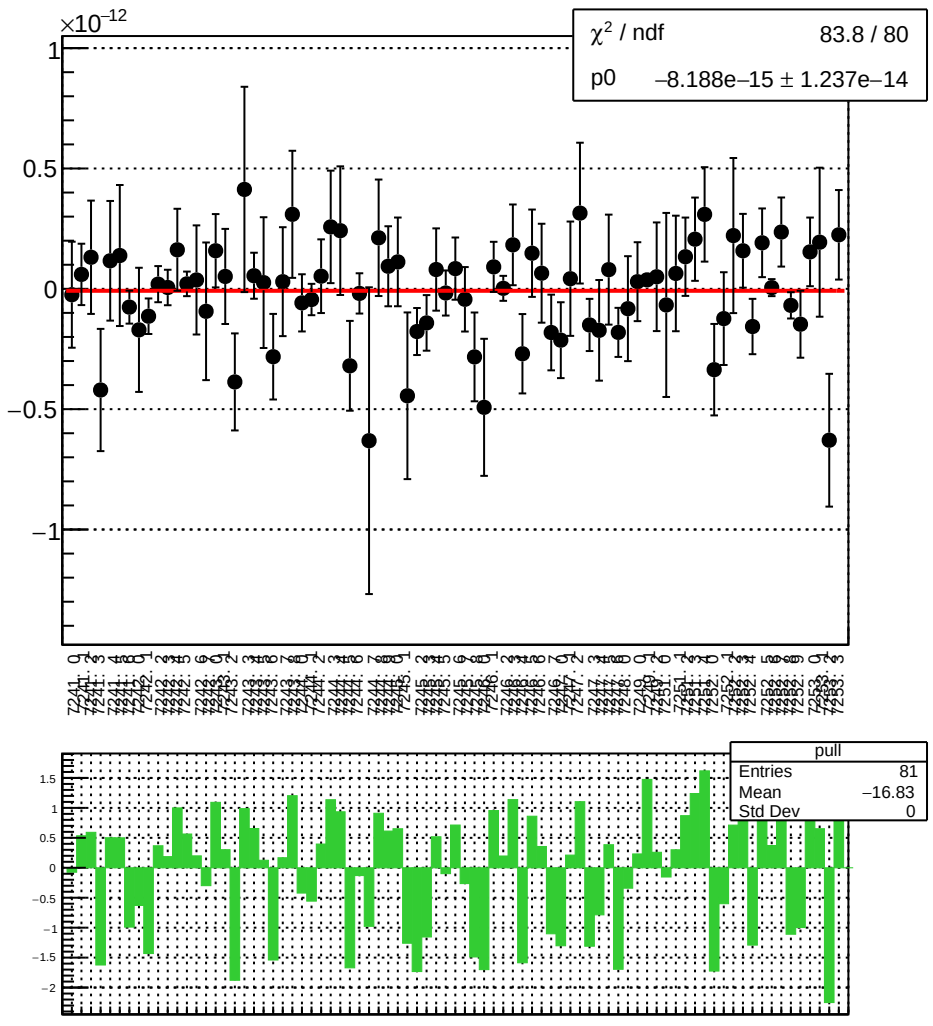

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.34 / 80
p0 −0.01584 ± 0.04091
pull
Entries 81
Mean 316.9
Std Dev 0
pull1D
Entries 81
Mean −0.004964
Std Dev 1.02

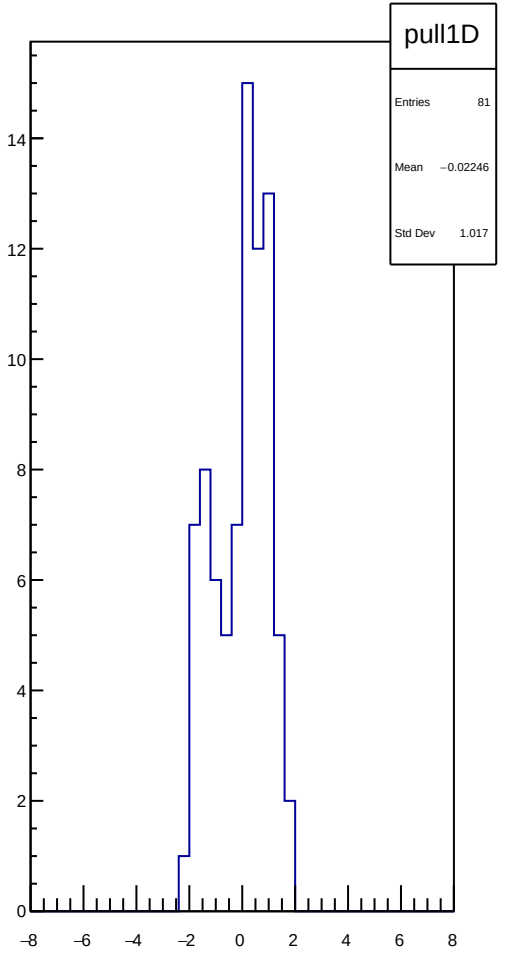

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5155 / 80
p0 35.95 ± 0.02893
42
40
38
36
34
32

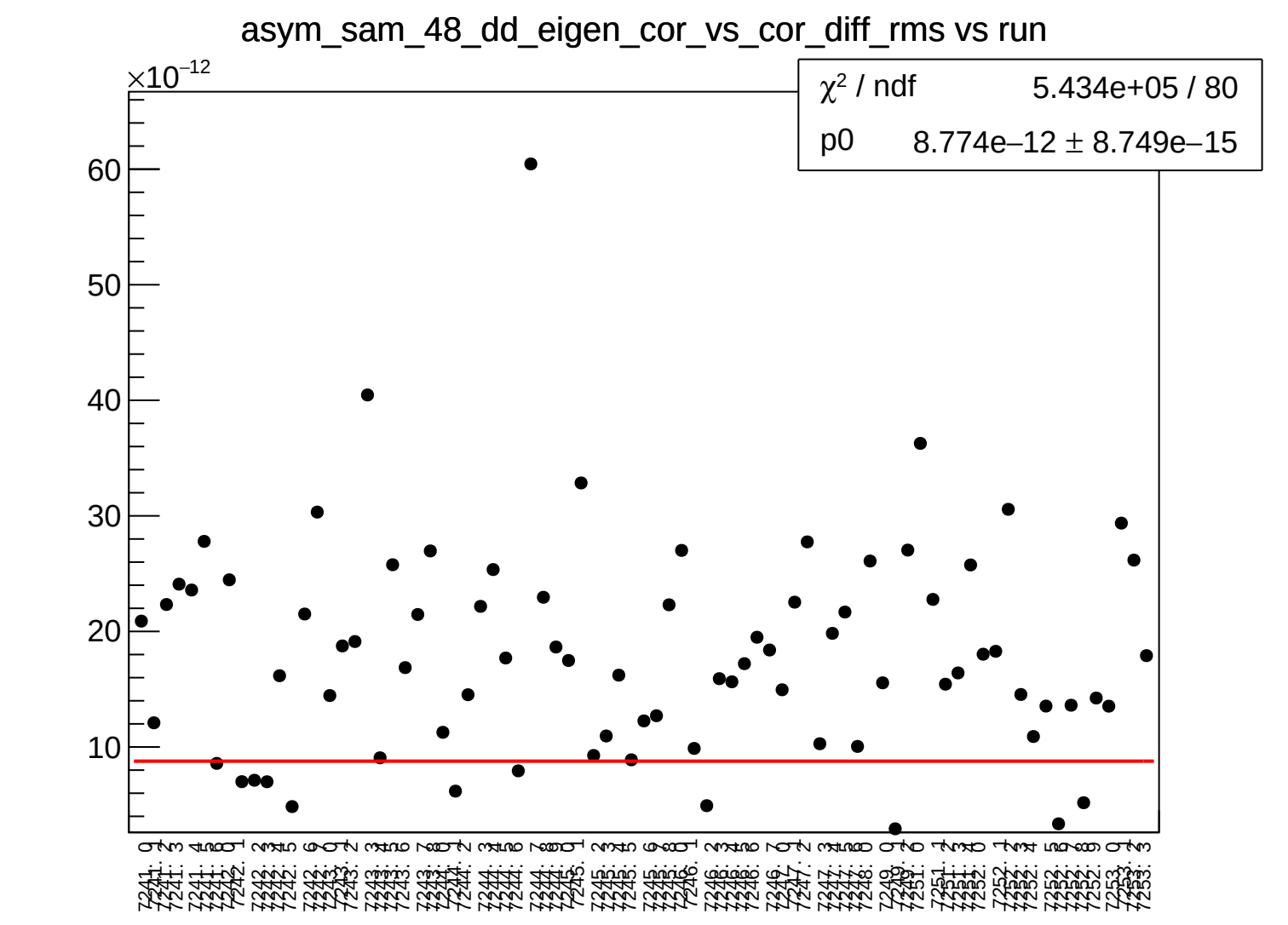

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.34 / 80
p0 −0.01584 ± 0.04091
pull
Entries 81
Mean 316.9
Std Dev 0

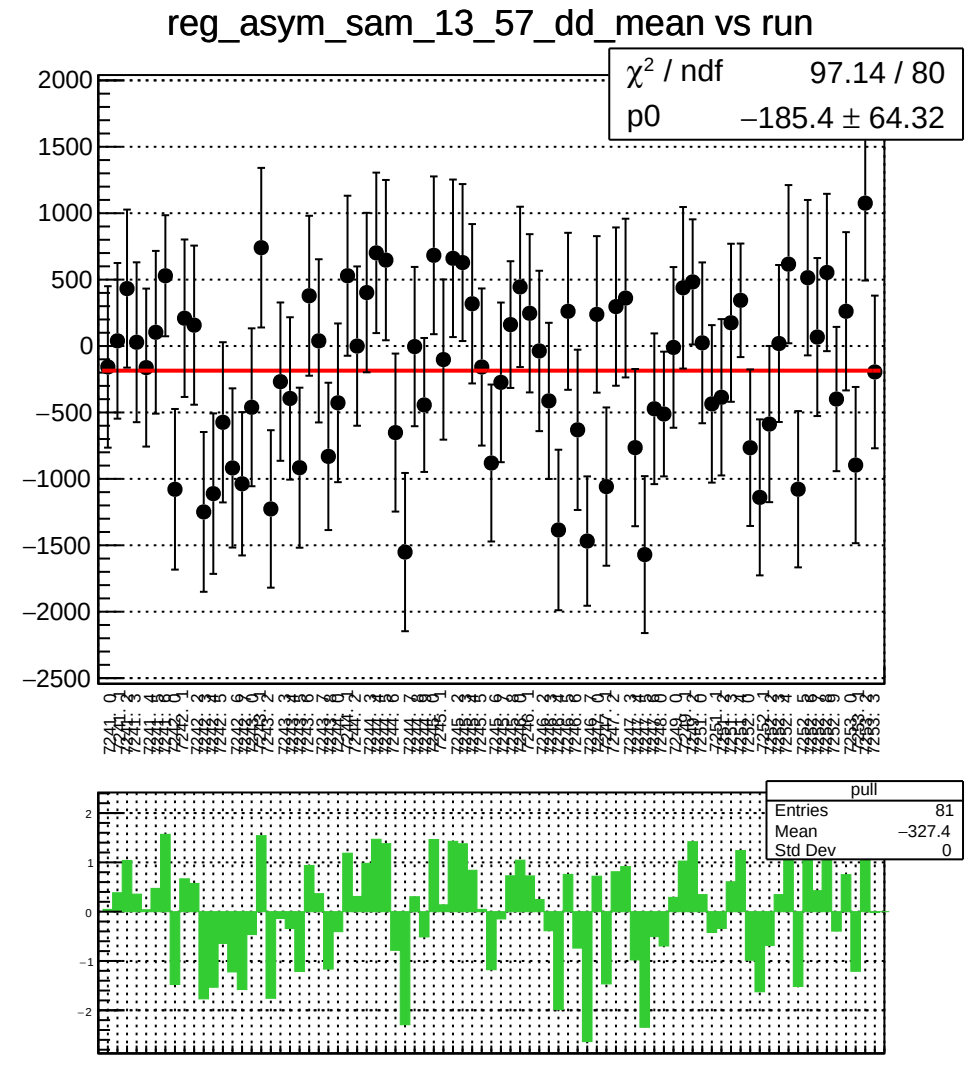

pull1D
Entries 81
Mean −0.004964
Std Dev 1.02

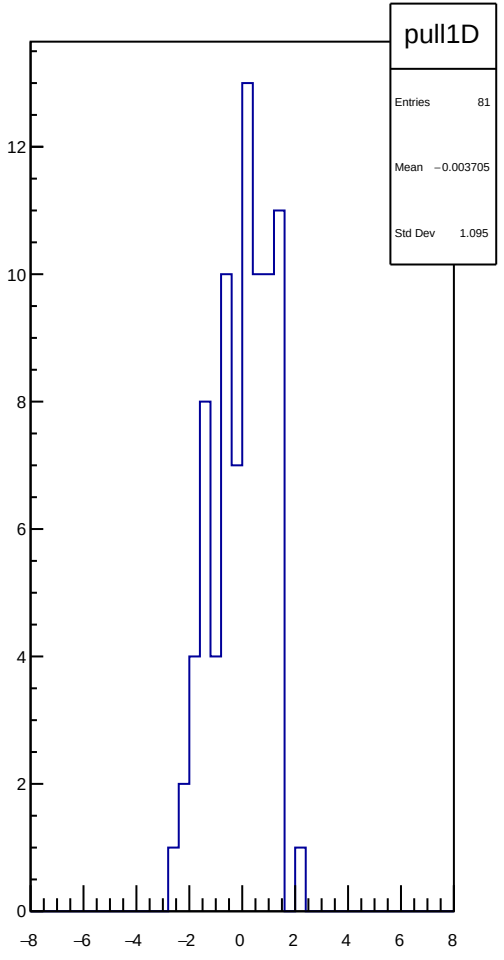

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5155 / 80
p0 35.95 ± 0.02893
42
40
38
36
34
32

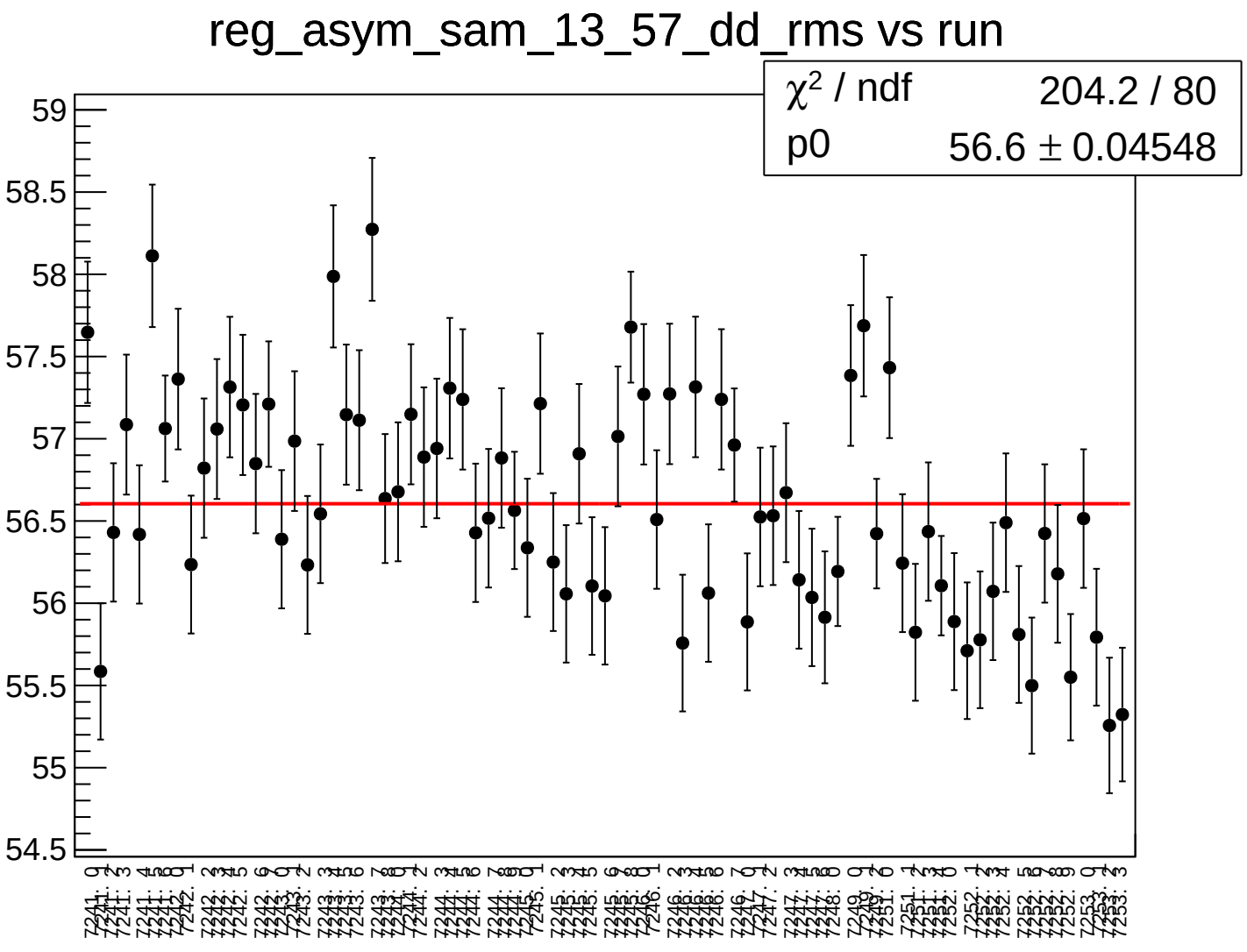

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.8 / 80
p0 −8.188e−15 ± 1.237e−14
pull
Entries 81
Mean −16.83
Std Dev 0

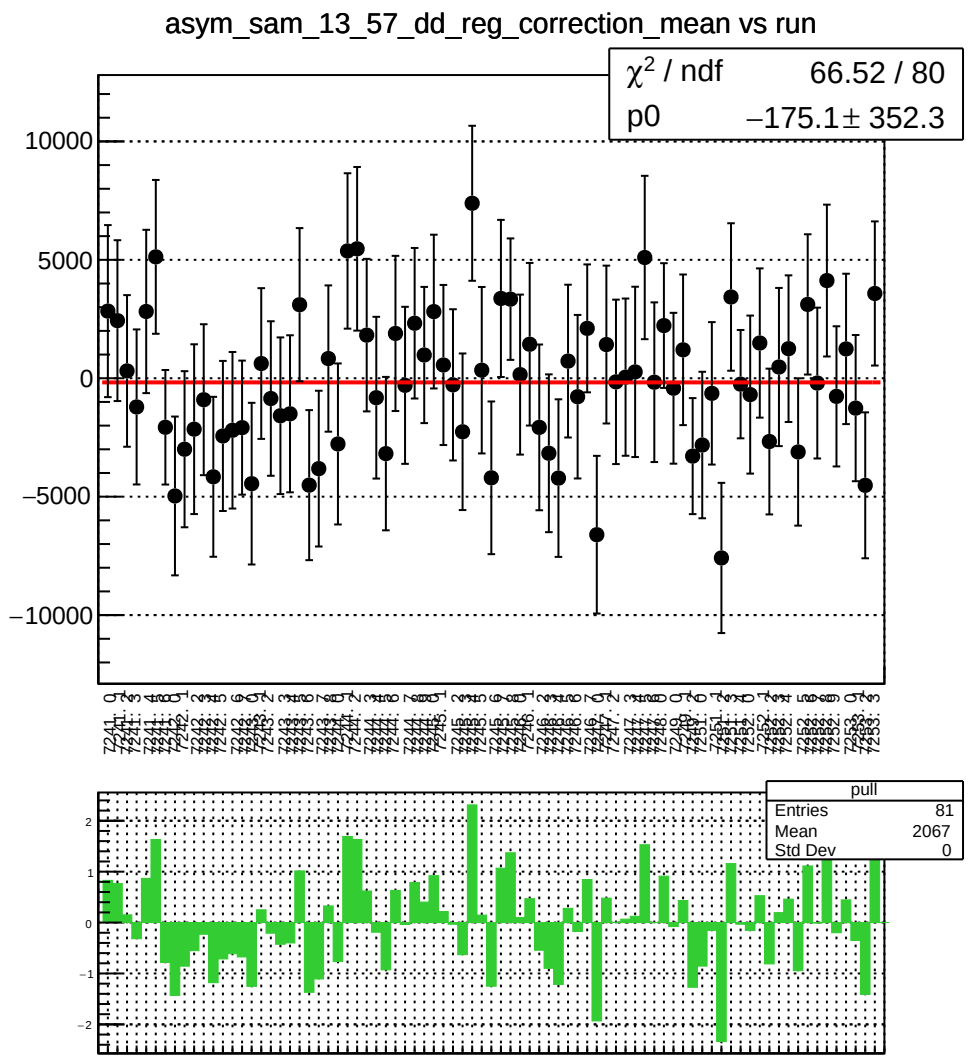

pull1D
Entries 81
Mean −0.02246
Std Dev 1.017

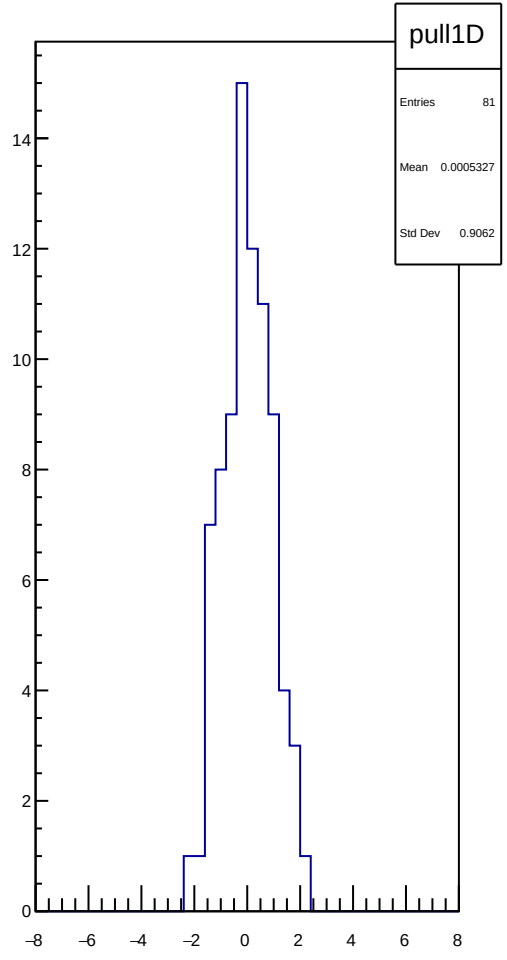

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.434e+05 / 80
p0 8.774e−12 ± 8.749e−15
60
50
40
30
20
10

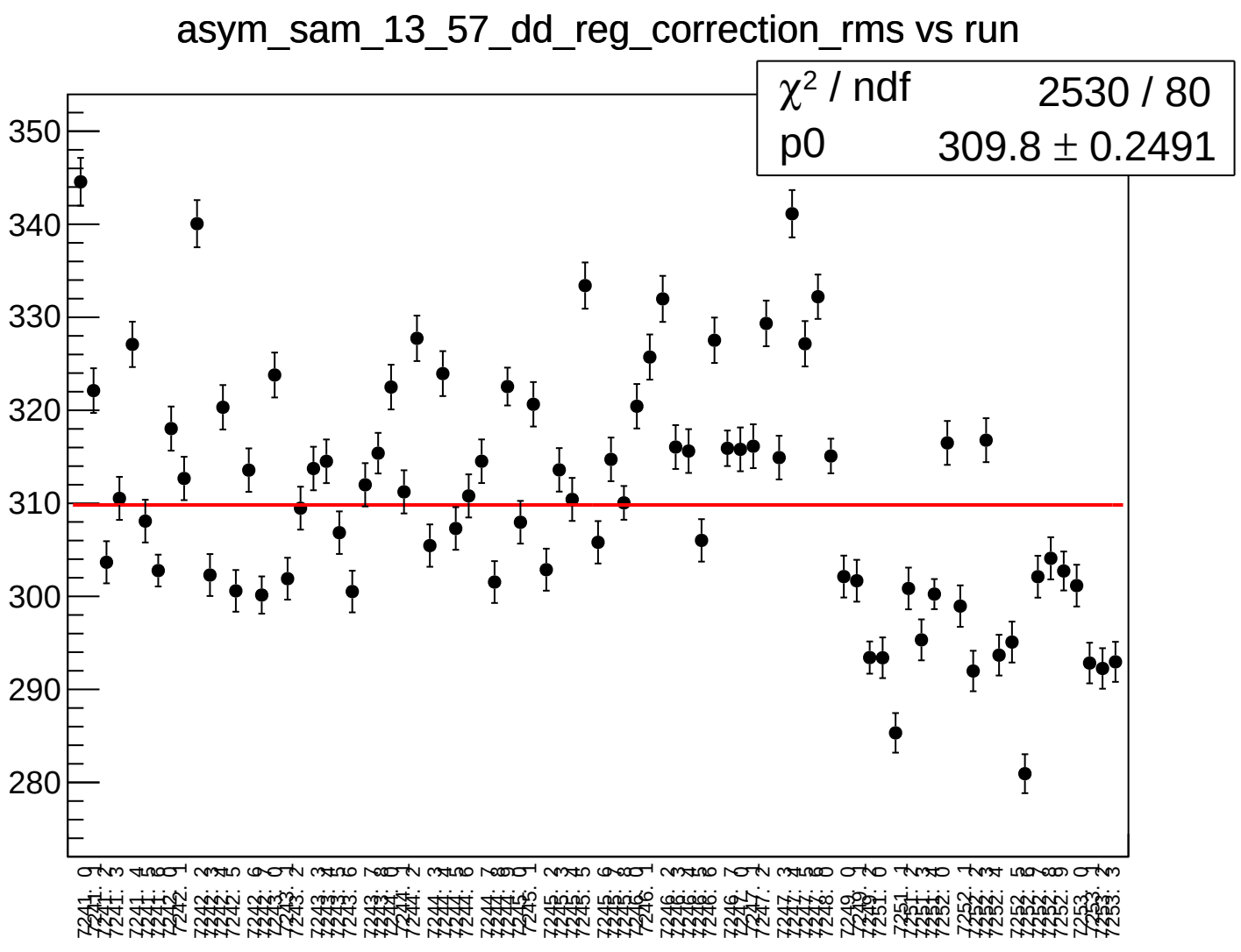

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 97.14 / 80
p0 −185.4 ± 64.32
pull
Entries 81
Mean −327.4
Std Dev 0

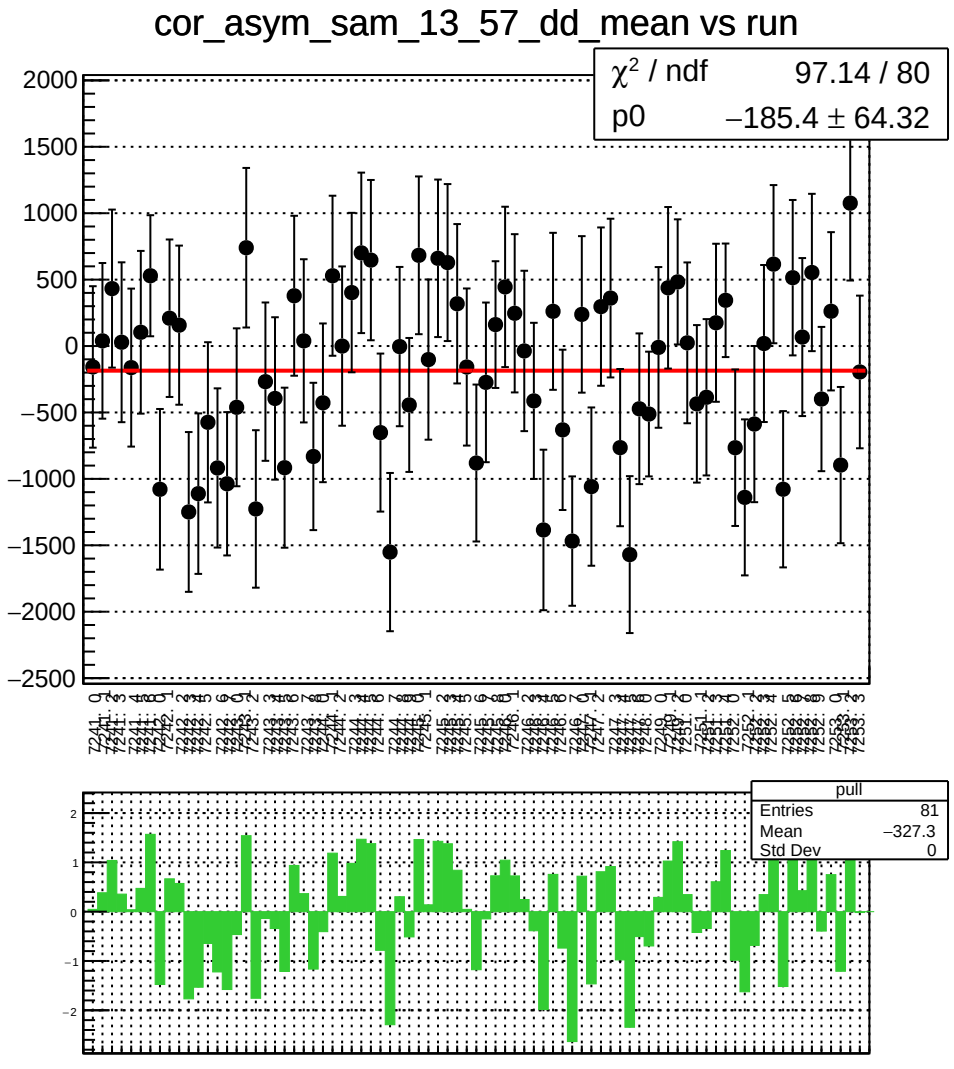

pull1D
Entries 81
Mean −0.003705
Std Dev 1.095

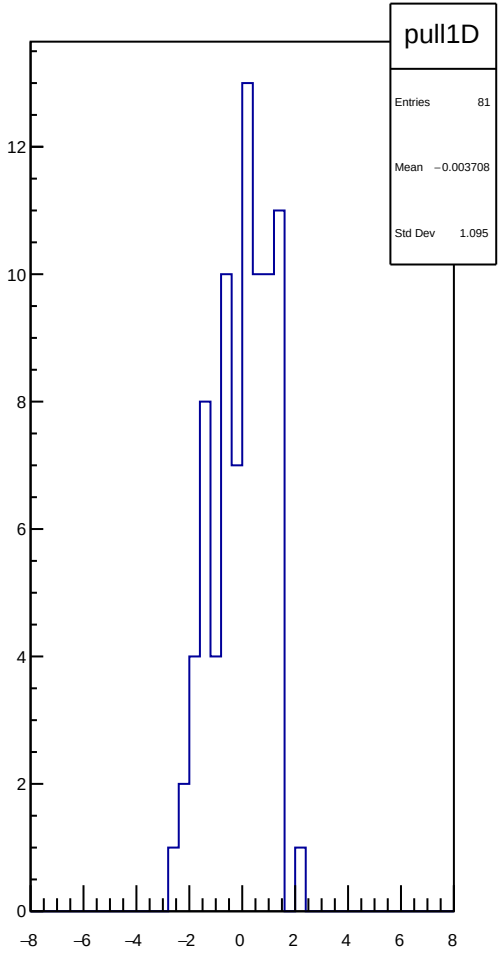

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 204.2 / 80
p0 56.6 ± 0.04548
59
58.5
58
57.5
57
56.5
56
55.5
55
54.5

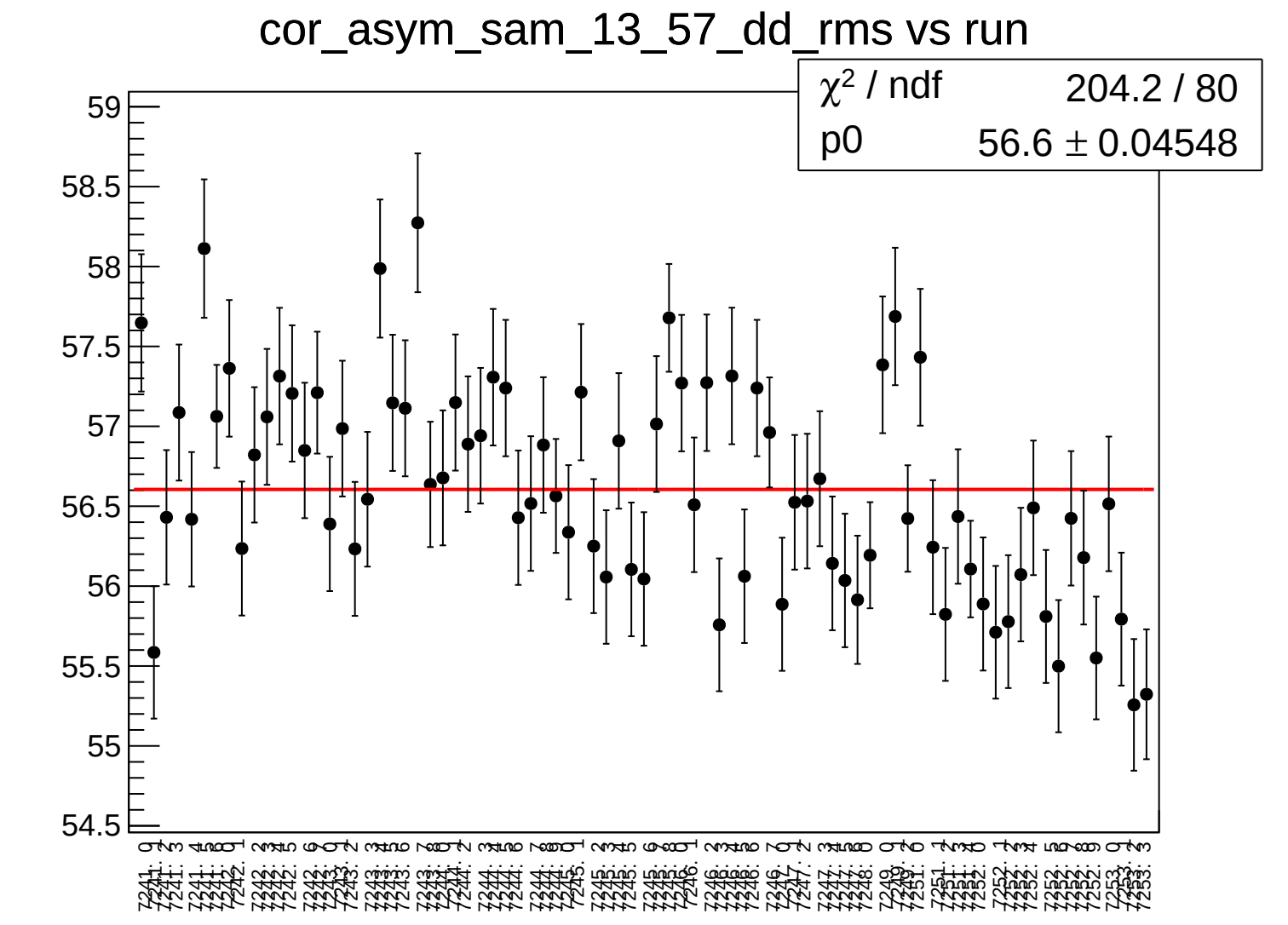

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 66.52 / 80
p0 −175.1± 352.3
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 2067
Std Dev 0
2
1
0
−1
−2

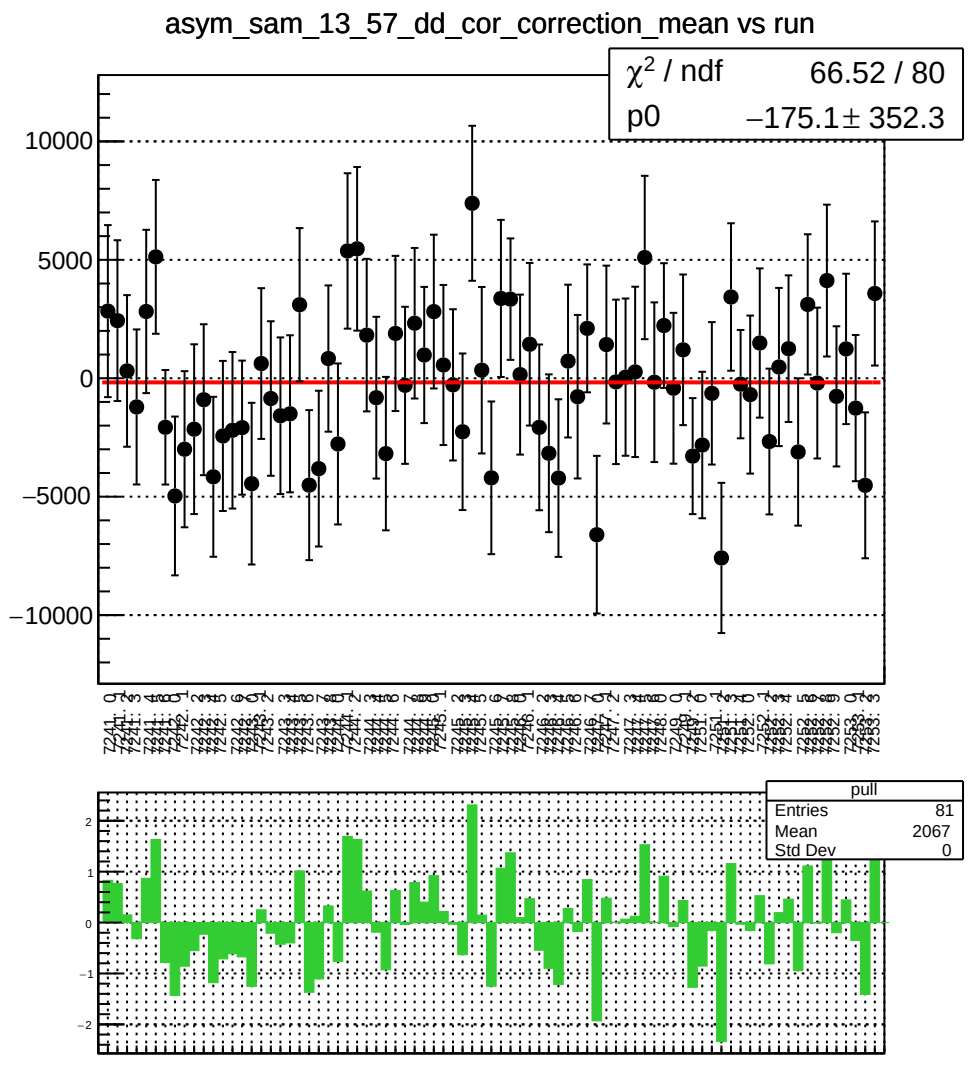

pull1D
Entries 81
Mean 0.0005327
Std Dev 0.9062
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

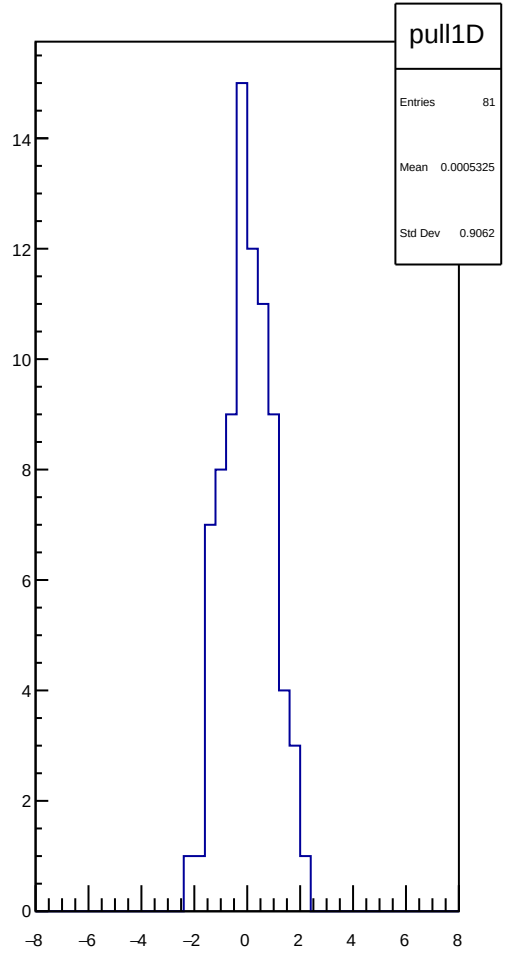

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 2530 / 80
p0 309.8 ± 0.2491
350
340
330
320
310
300
290
280

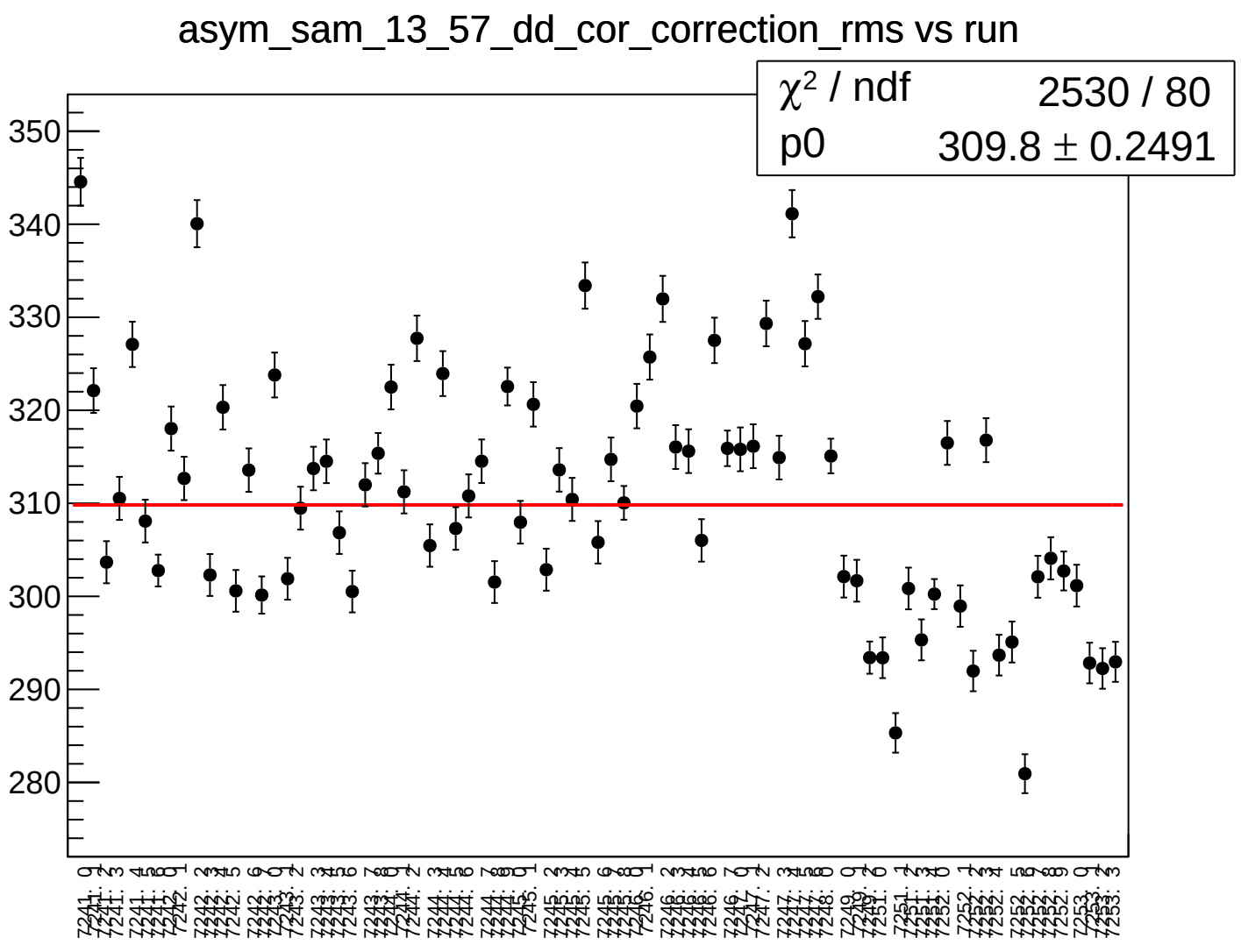

cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 97.14 / 80
p0 −185.4 ± 64.32
pull
Entries 81
Mean −327.3
Std Dev 0

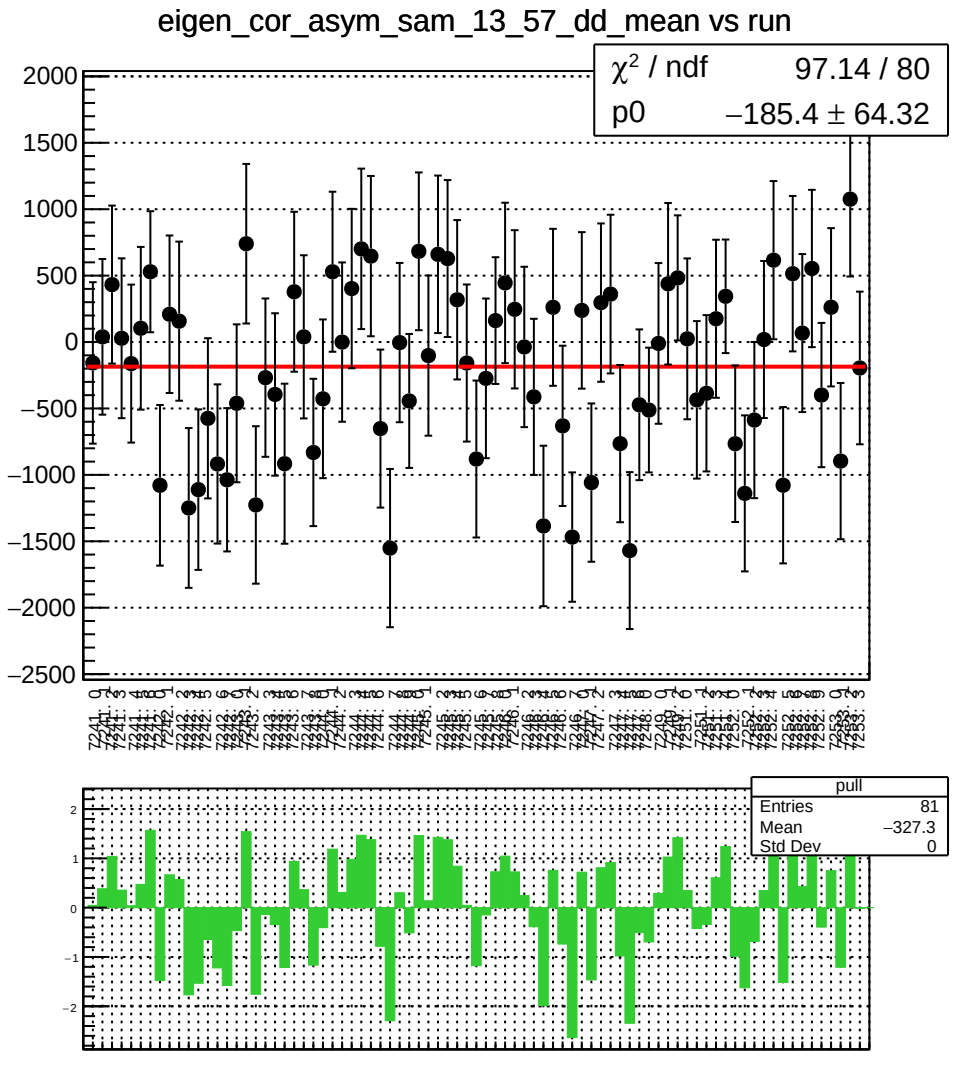

pull1D
Entries 81
Mean −0.003708
Std Dev 1.095

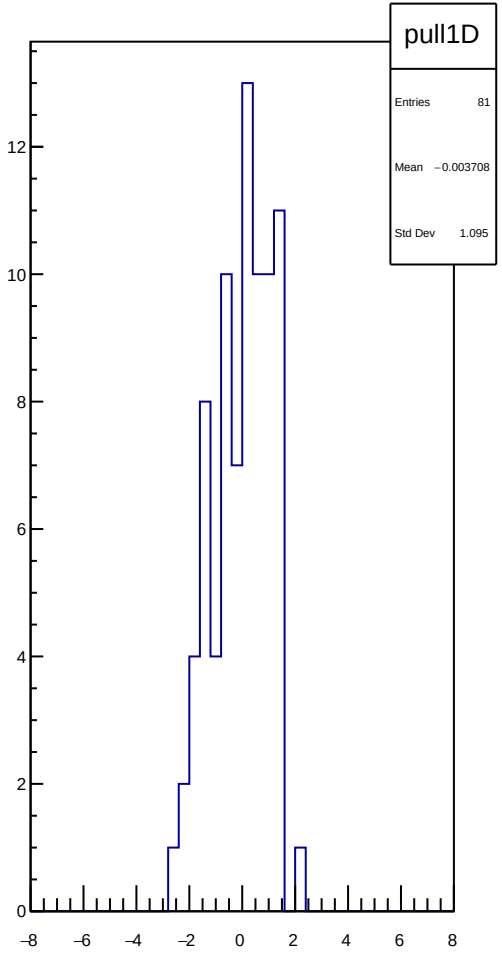

cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 204.2 / 80
p0 56.6 ± 0.04548
59
58.5
58
57.5
57
56.5
56
55.5
55
54.5

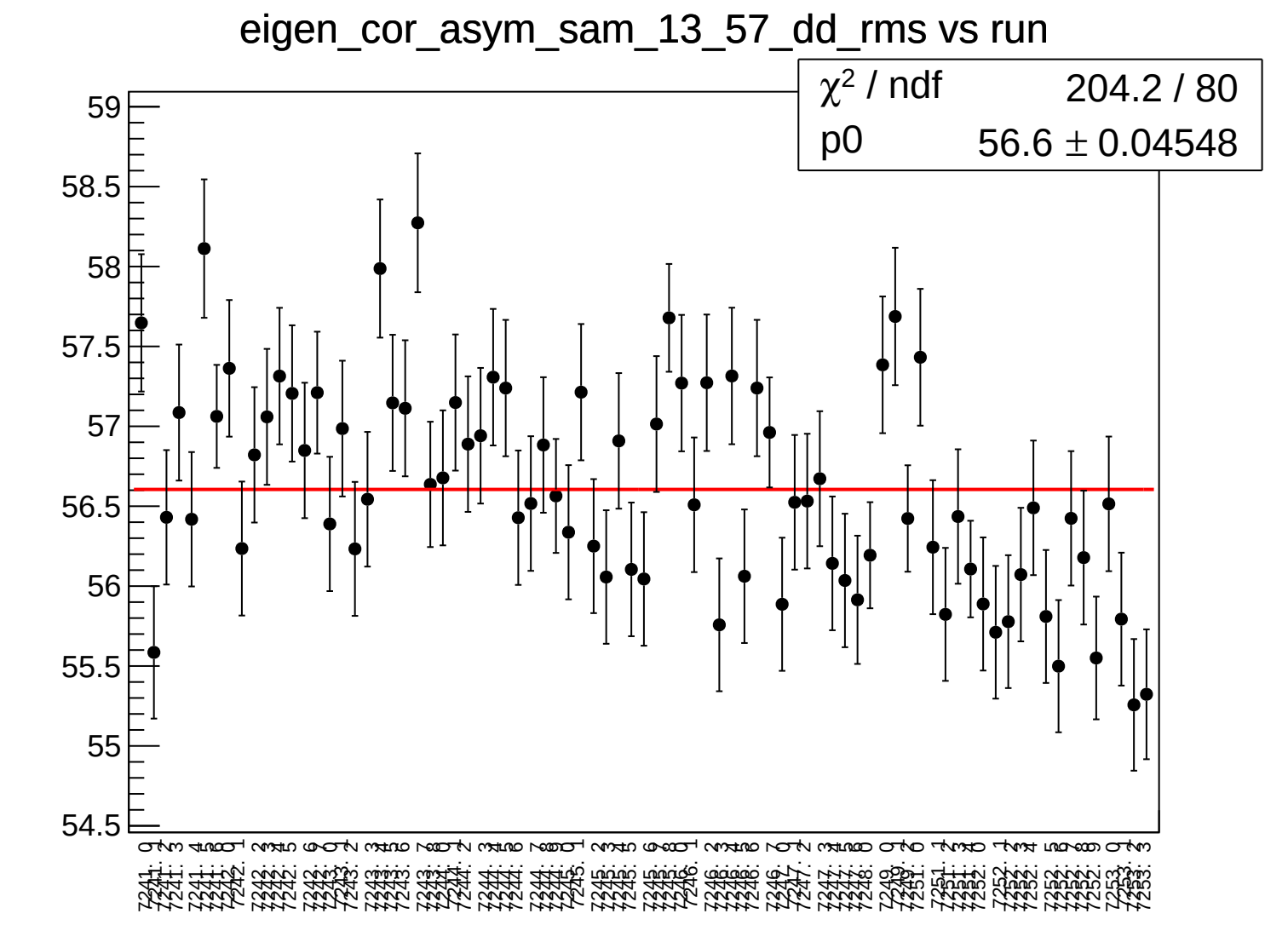

asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 66.52 / 80
p0 −175.1± 352.3
pull
Entries 81
Mean 2067
Std Dev 0

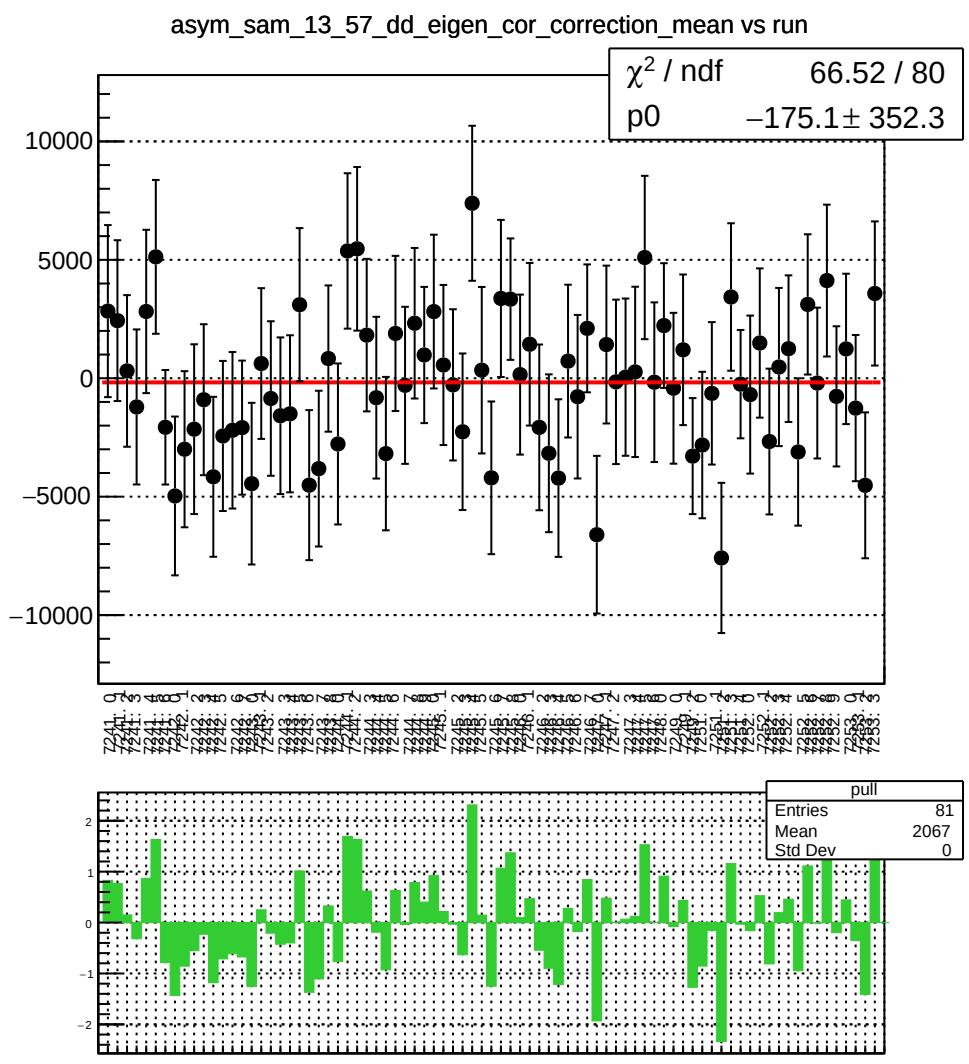

pull1D
Entries 81
Mean 0.0005325
Std Dev 0.9062

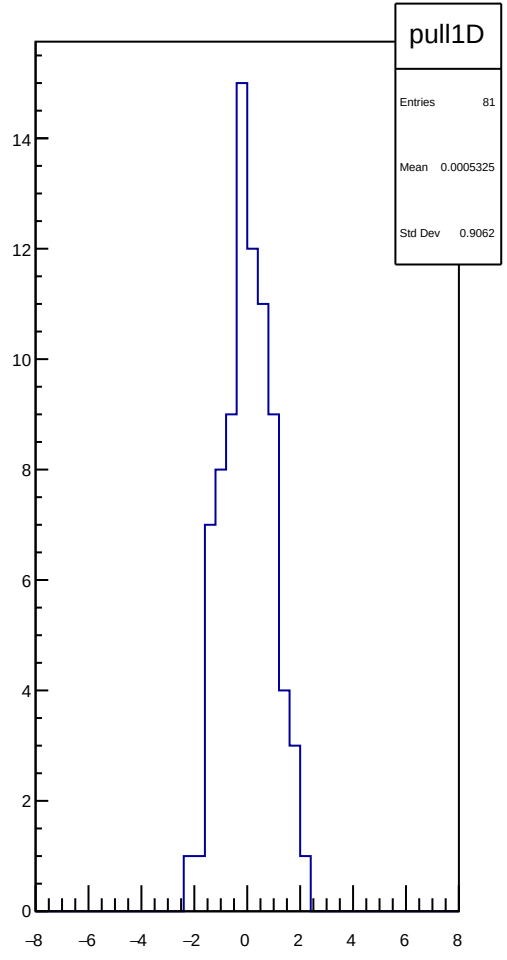

asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 2530 / 80
p0 309.8 ± 0.2491
350
340
330
320
310
300
290
280

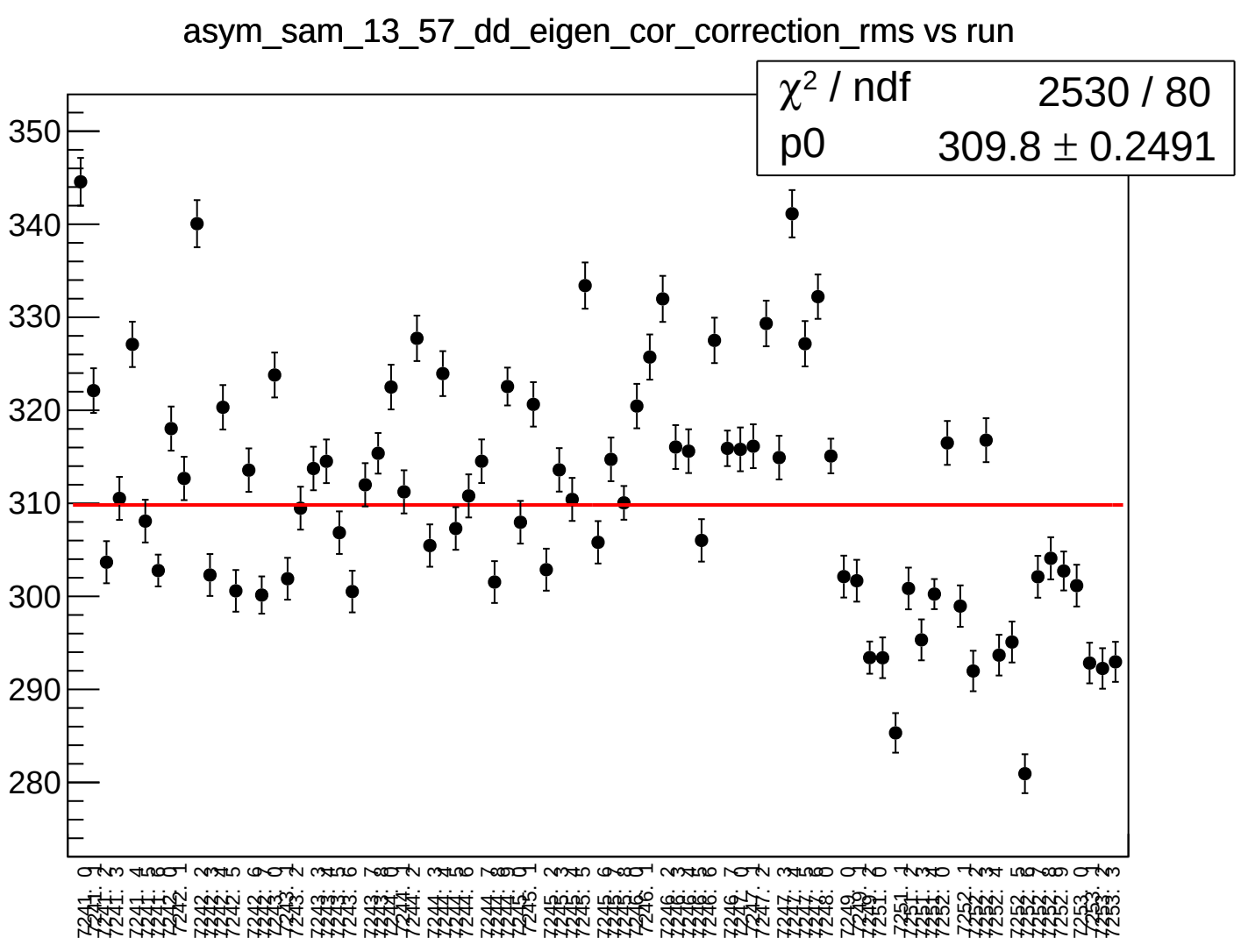

eigen_cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 97.14 / 80
p0 −185.4 ± 64.32
pull
Entries 81
Mean −327.3
Std Dev 0

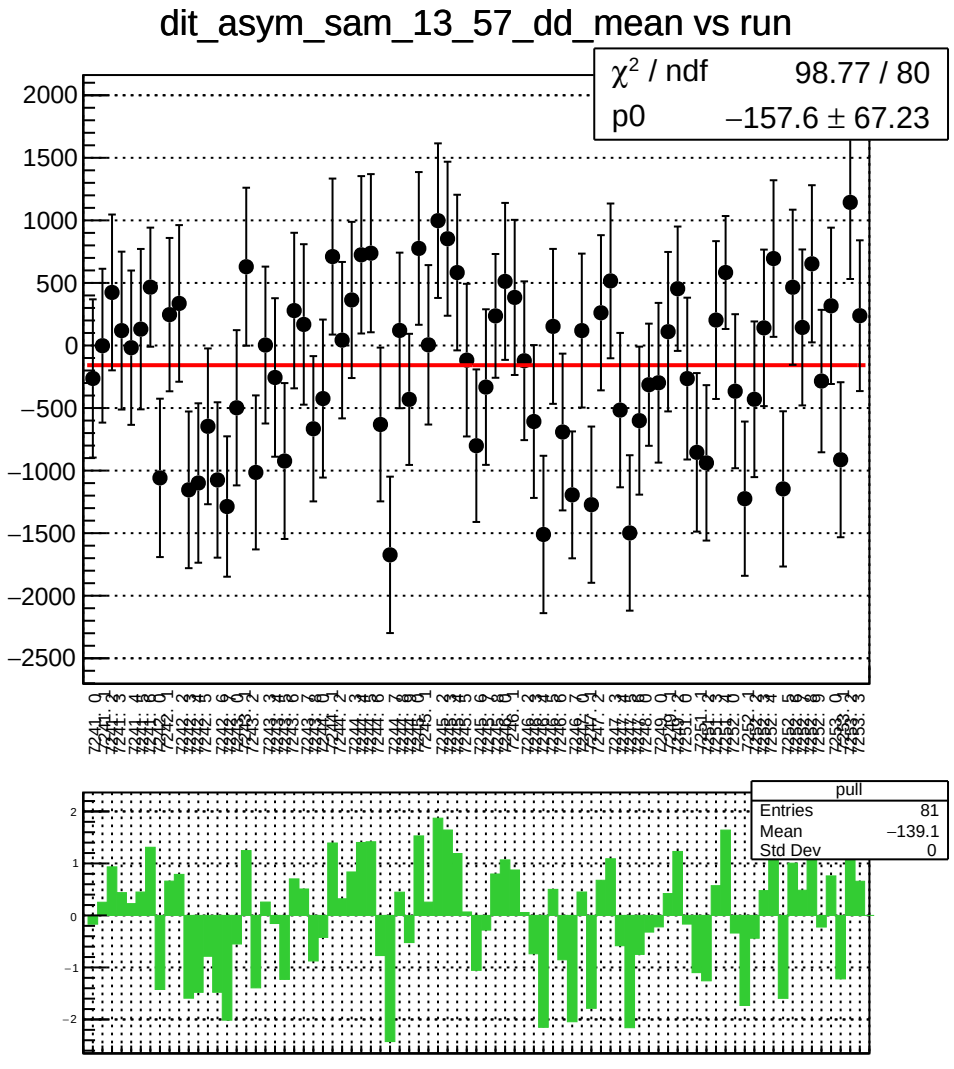

pull1D
Entries 81
Mean −0.003708
Std Dev 1.095

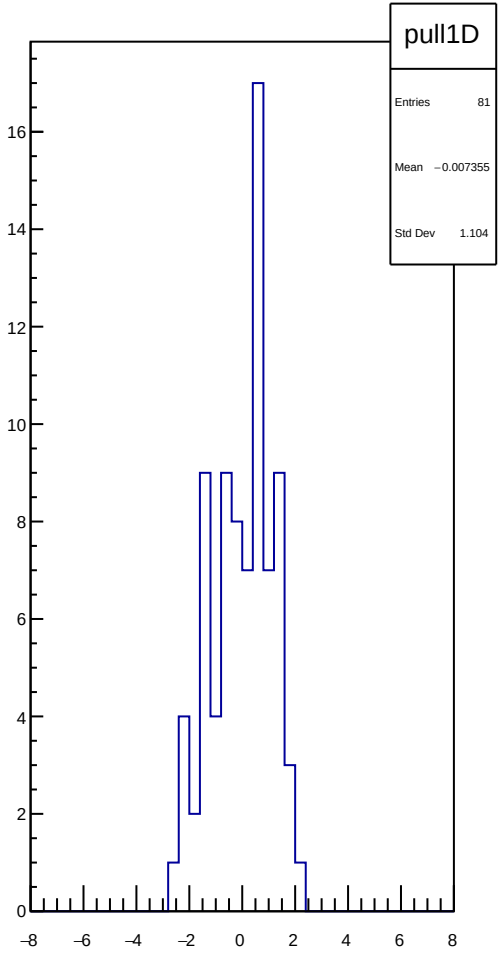

eigen_cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 204.2 / 80
p0 56.6 ± 0.04548
59
58.5
58
57.5
57
56.5
56
55.5
55
54.5

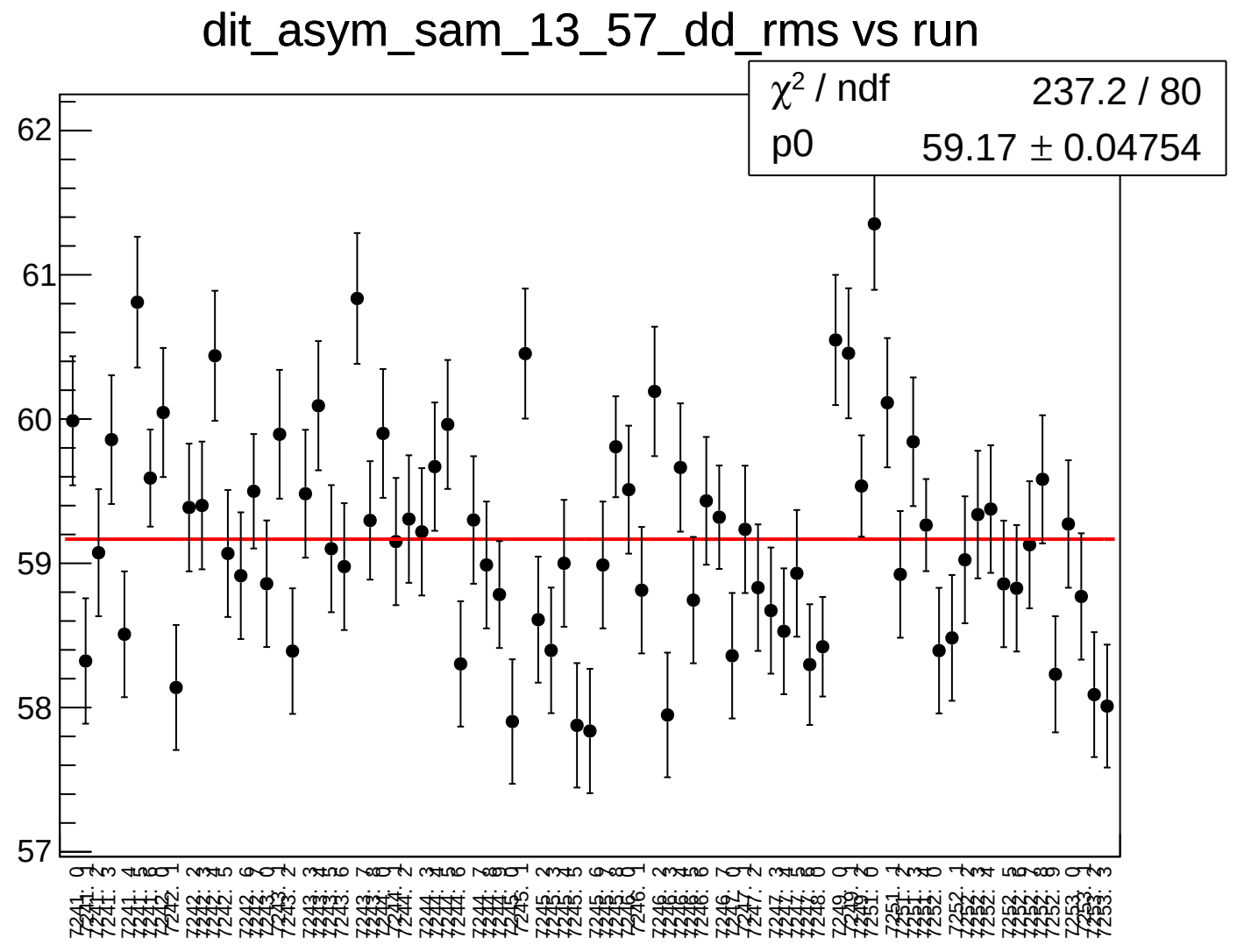

asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 66.52 / 80
p0 −175.1± 352.3
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 2067
Std Dev 0
2
1
0
−1
−2

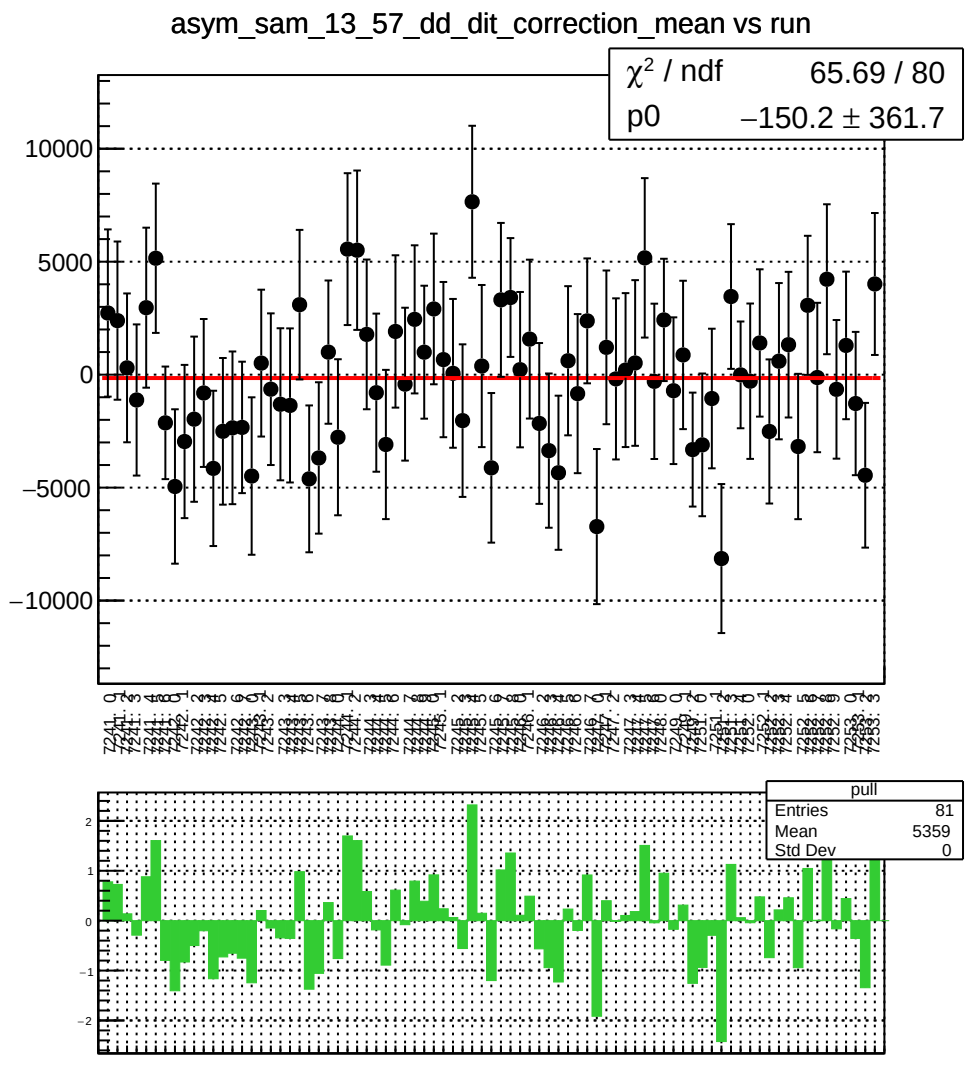

pull1D
Entries 81
Mean 0.0005325
Std Dev 0.9062
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

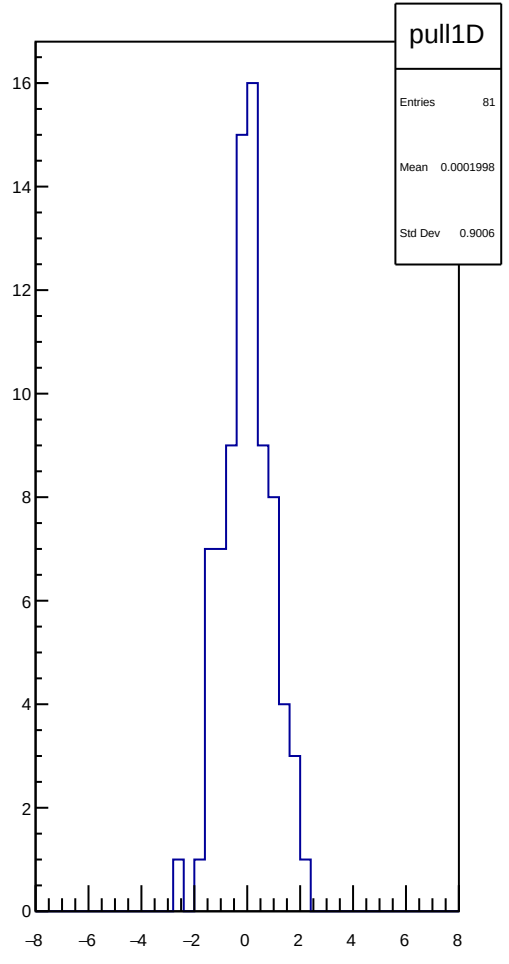

asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 2530 / 80
p0 309.8 ± 0.2491
350
340
330
320
310
300
290
280

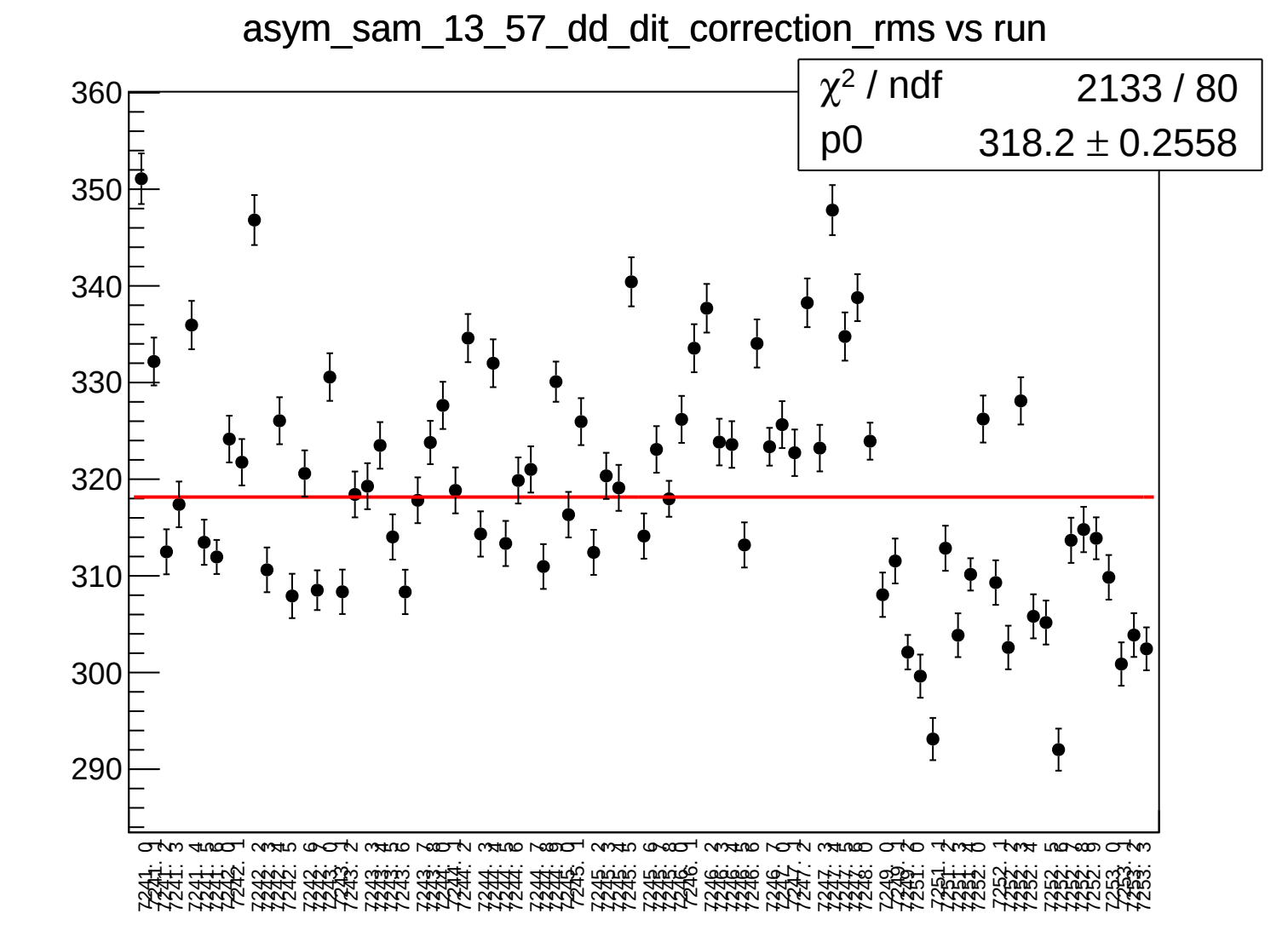

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 98.77 / 80
p0 −157.6 ± 67.23
pull
Entries 81
Mean −139.1
Std Dev 0

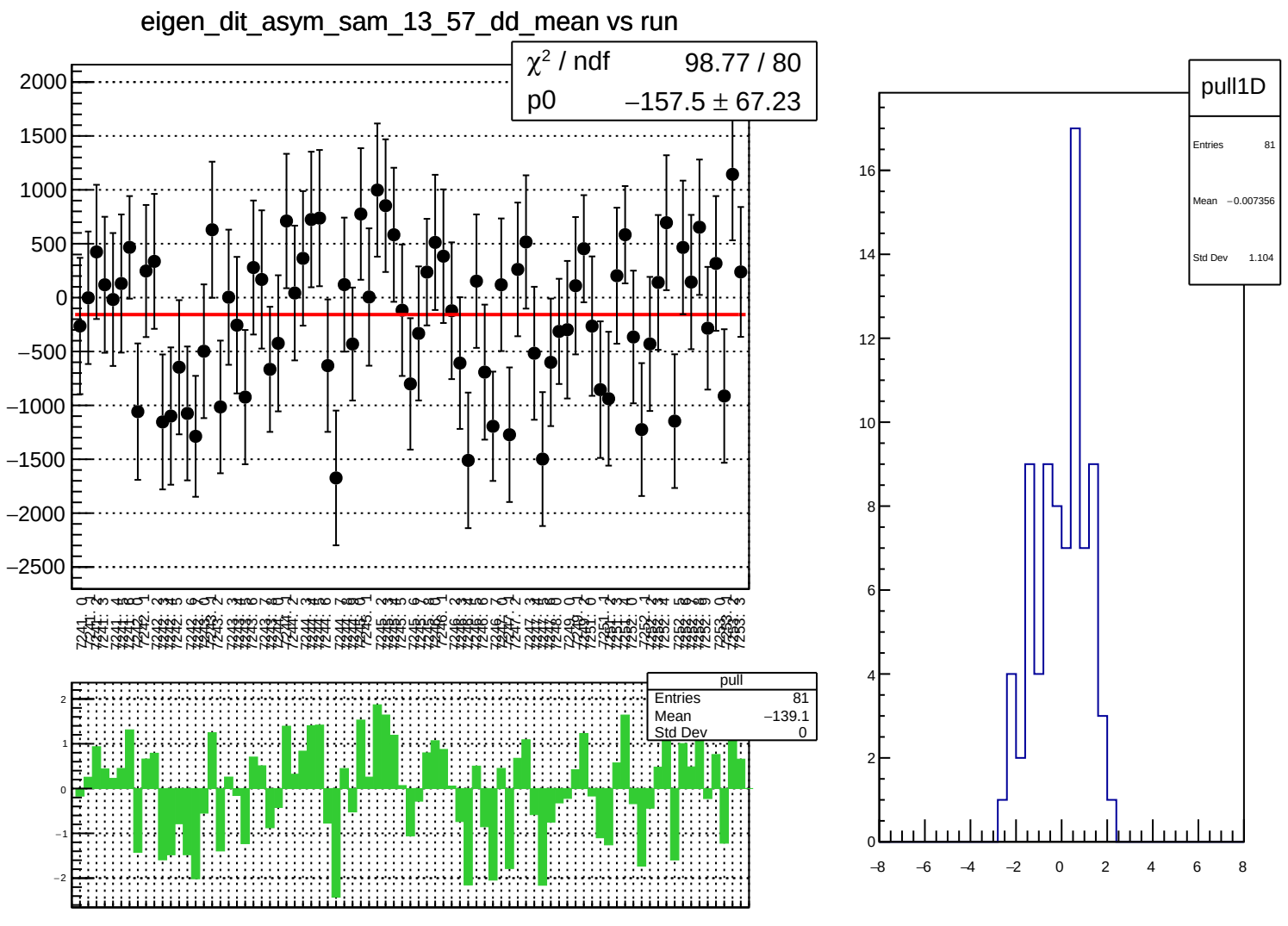

pull1D
Entries 81
Mean −0.007355
Std Dev 1.104

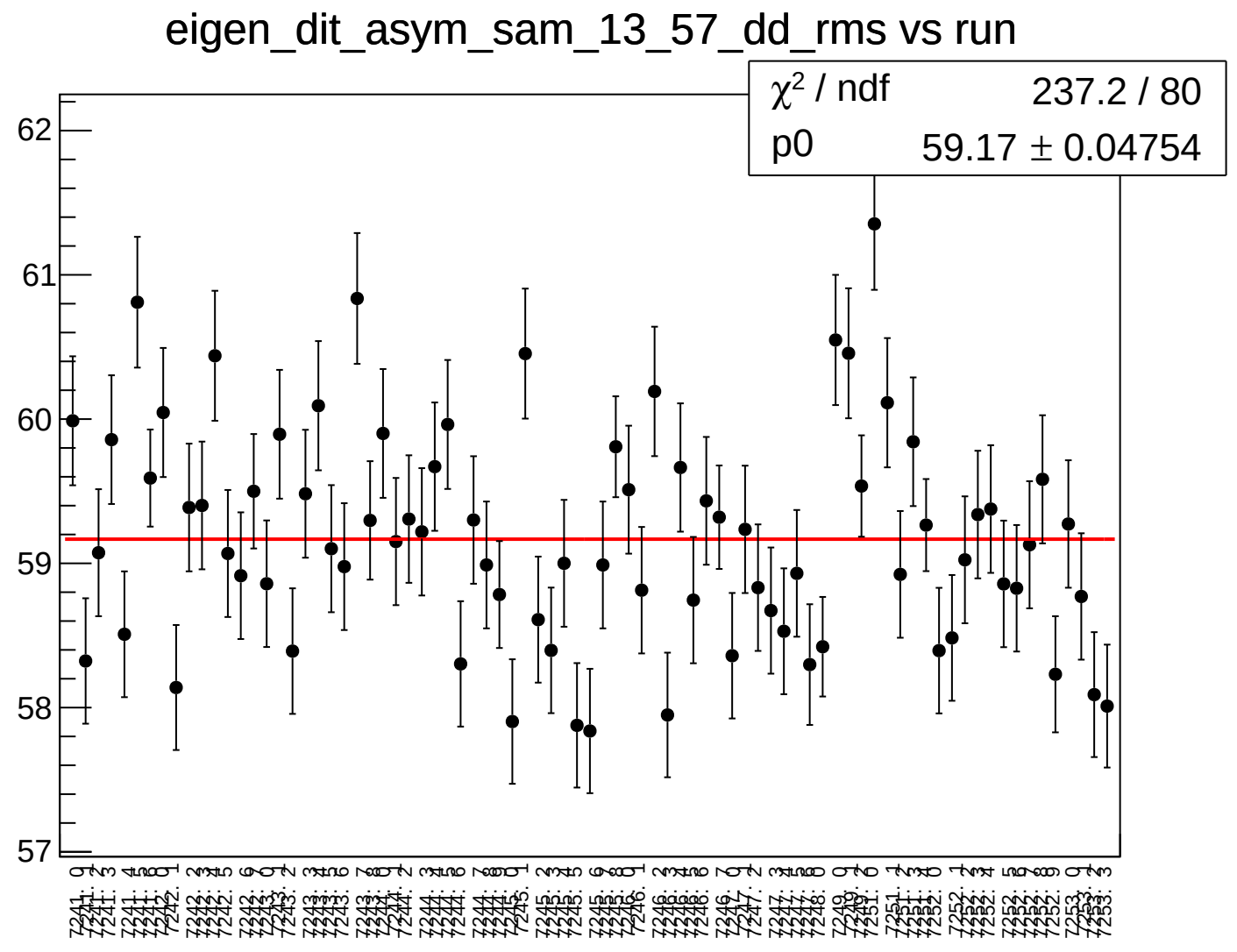

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 237.2 / 80
p0 59.17 ± 0.04754
62
61
60
59
58
57

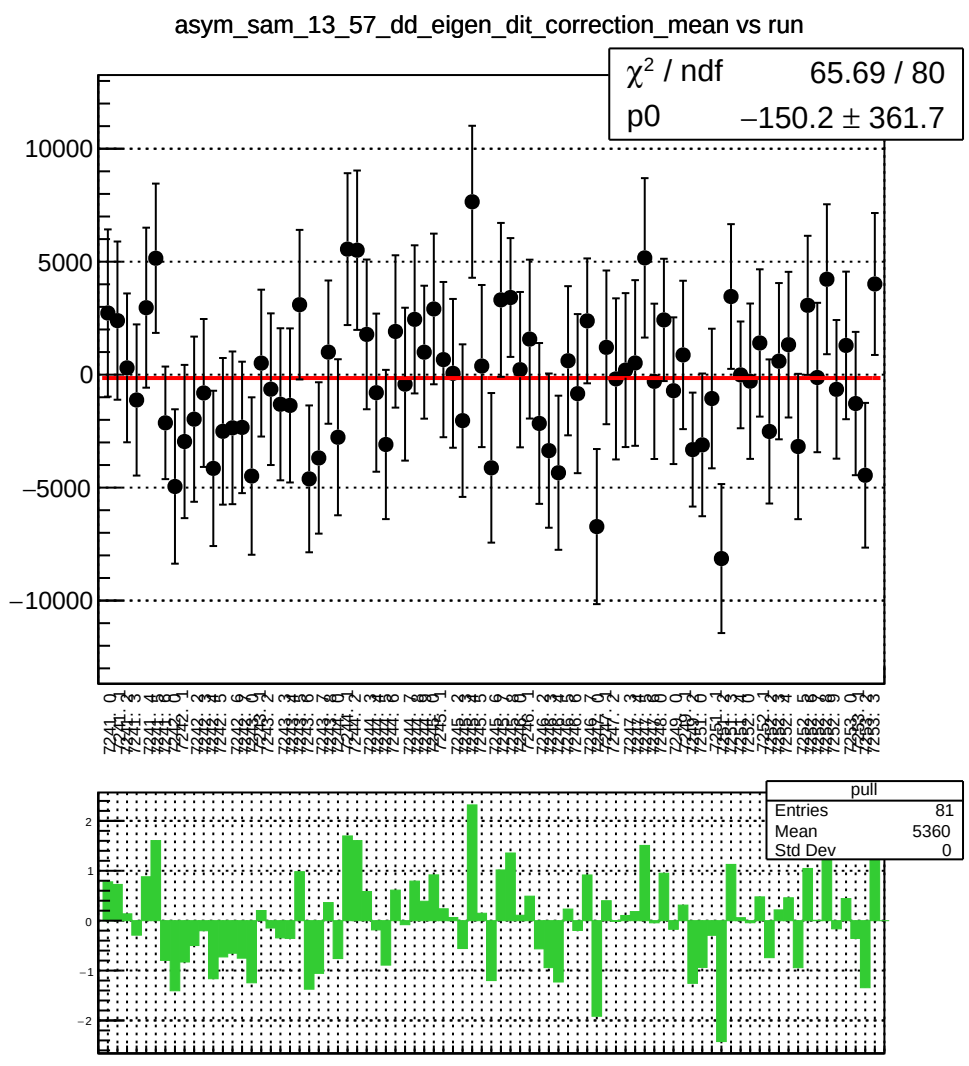

asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 65.69 / 80
p0 −150.2 ± 361.7
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 5359
Std Dev 0
2
1
0
−1
−2

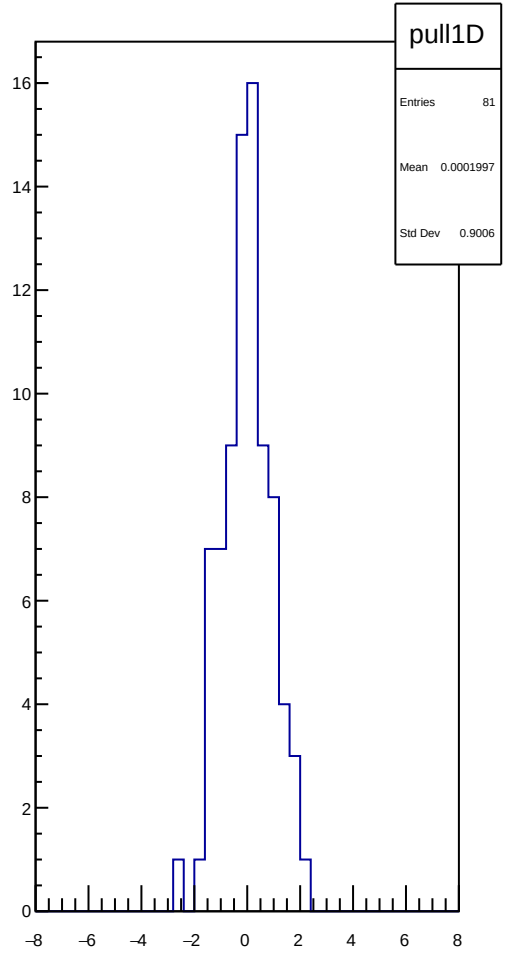

pull1D
Entries 81
Mean 0.0001998
Std Dev 0.9006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

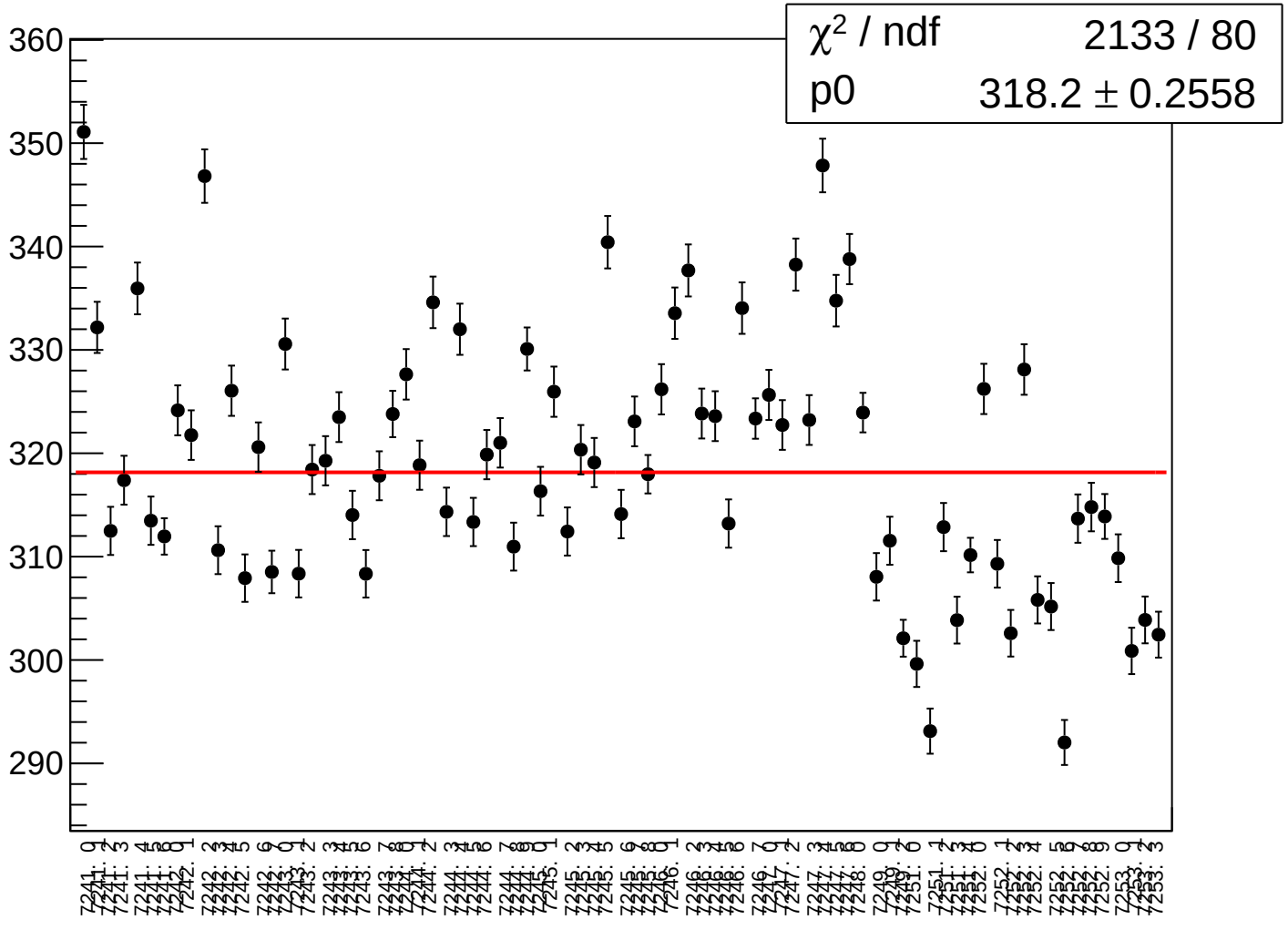

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 2133 / 80
p0 318.2 ± 0.2558
360
350
340
330
320
310
300
290

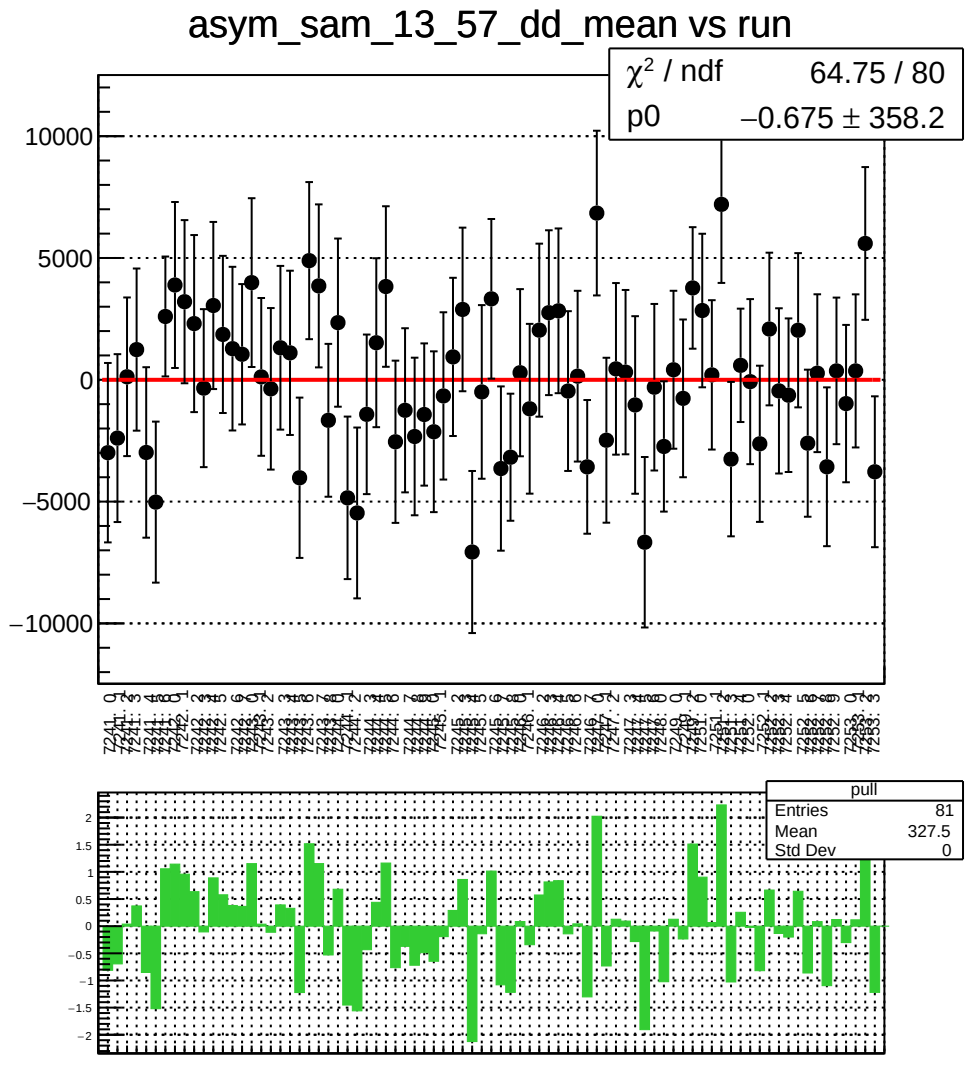

eigen_dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 98.77 / 80
p0 −157.5 ± 67.23
pull
Entries 81
Mean −139.1
Std Dev 0
pull1D
Entries 81
Mean −0.007356
Std Dev 1.104

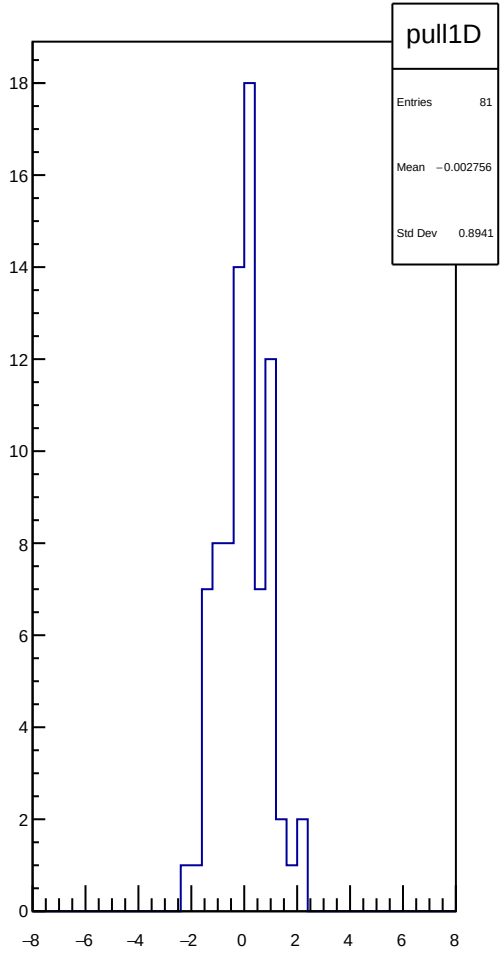

eigen_dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 237.2 / 80
p0 59.17 ± 0.04754
62
61
60
59
58
57

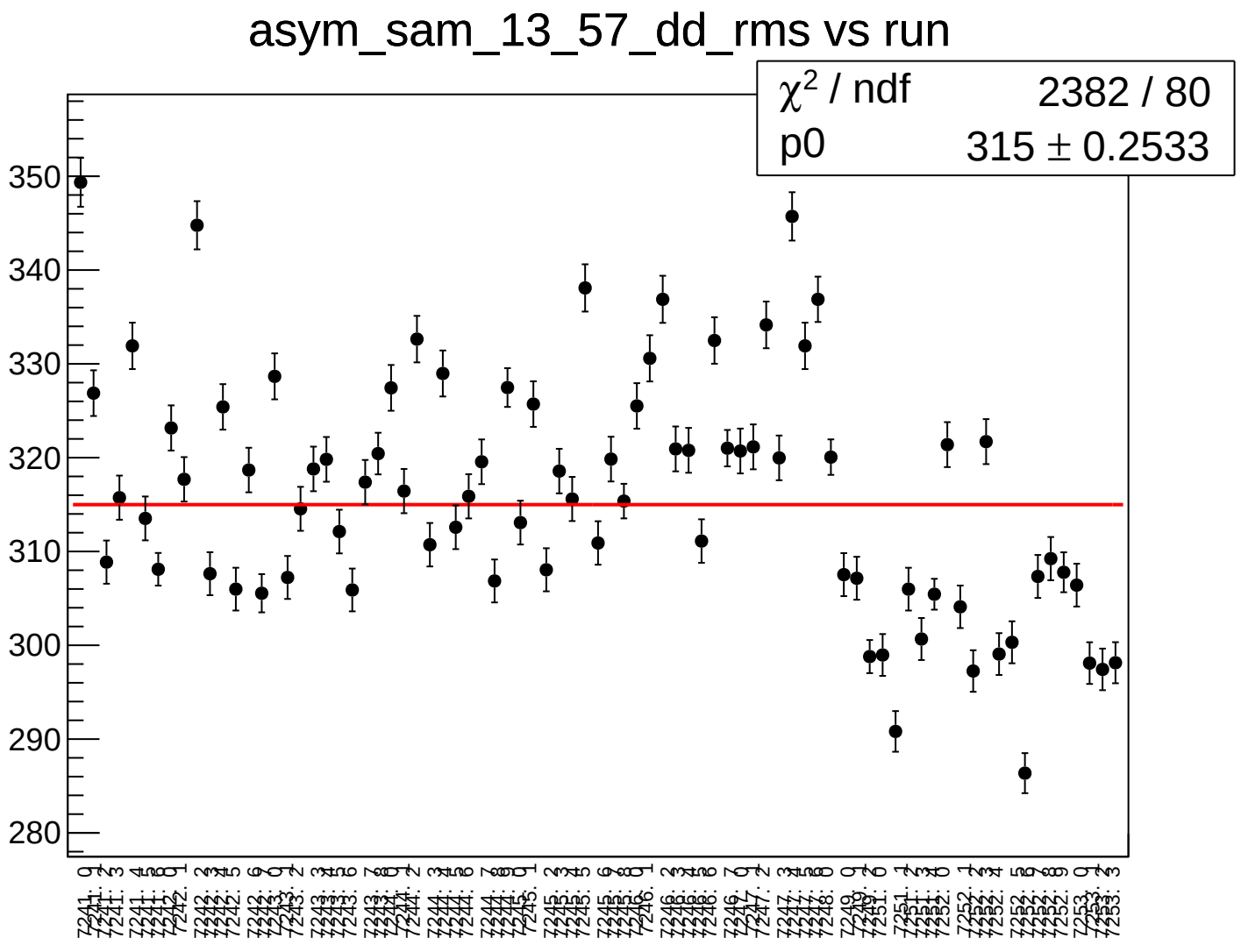

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 65.69 / 80
p0 −150.2 ± 361.7
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 5360
Std Dev 0
2
1
0
−1
−2

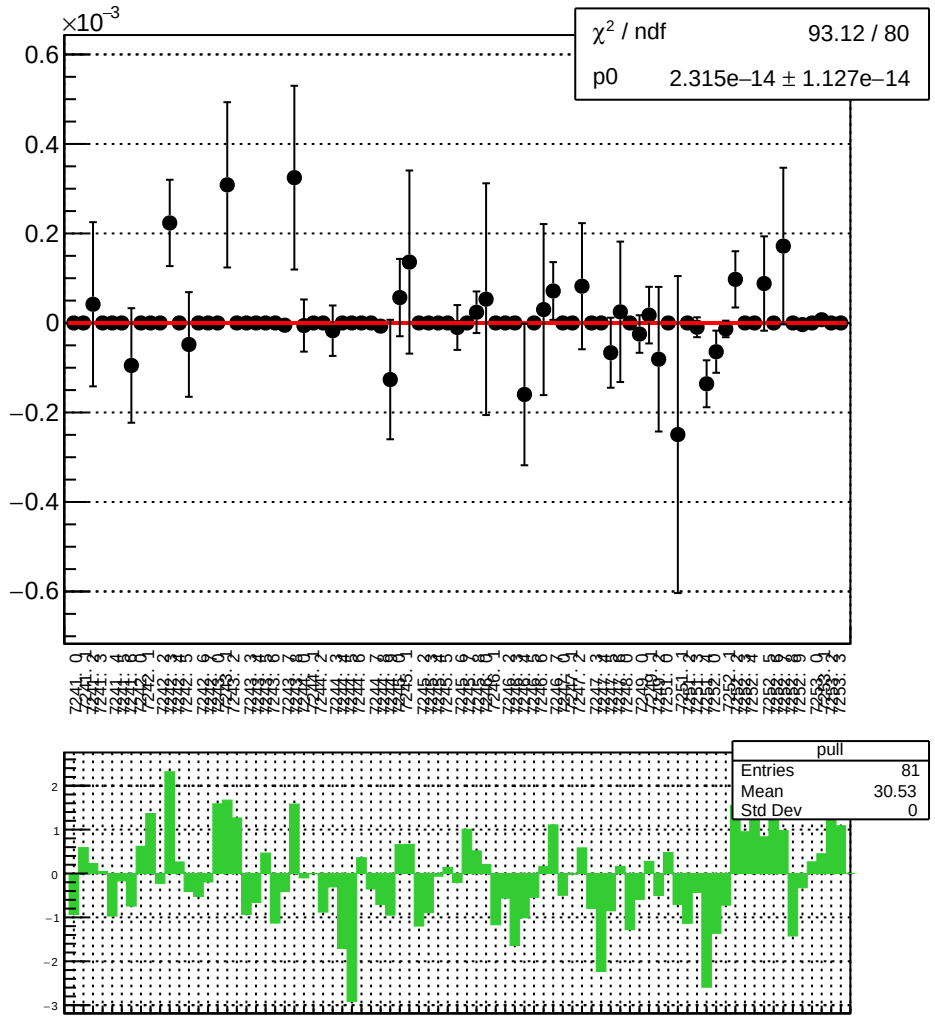

pull1D
Entries 81
Mean 0.0001997
Std Dev 0.9006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

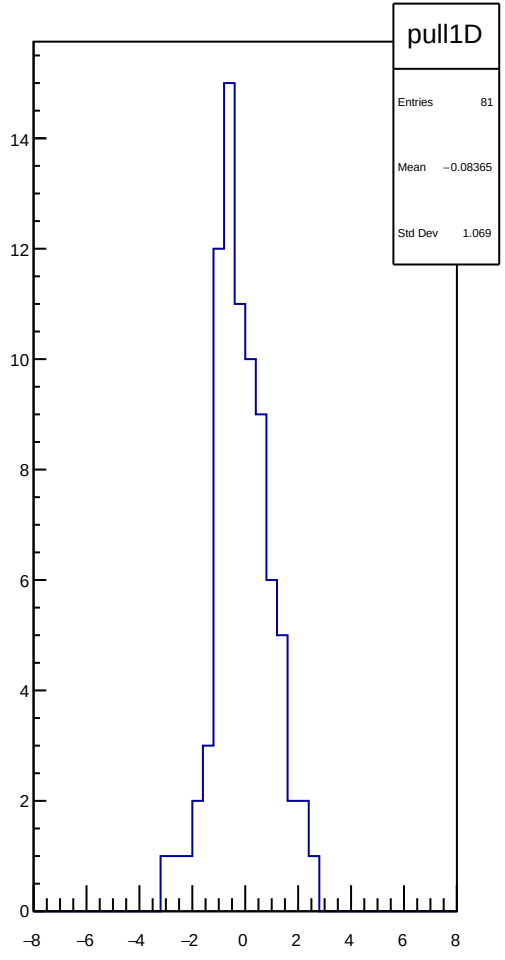

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 2133 / 80
p0 318.2 ± 0.2558
360
350
340
330
320
310
300
290

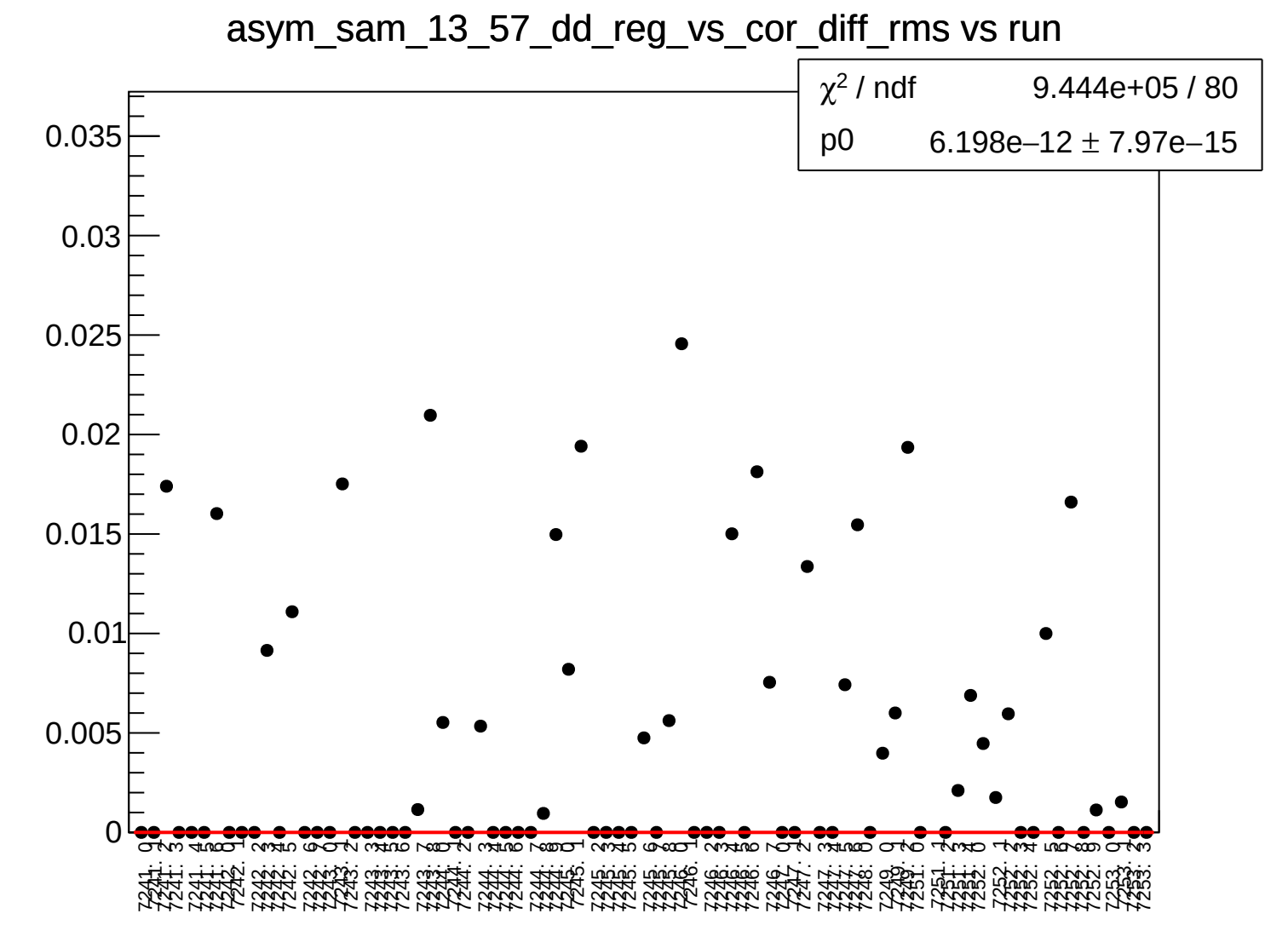

asym_sam_13_57_dd_mean vs run
χ² / ndf 64.75 / 80
p0 −0.675 ± 358.2
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 327.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

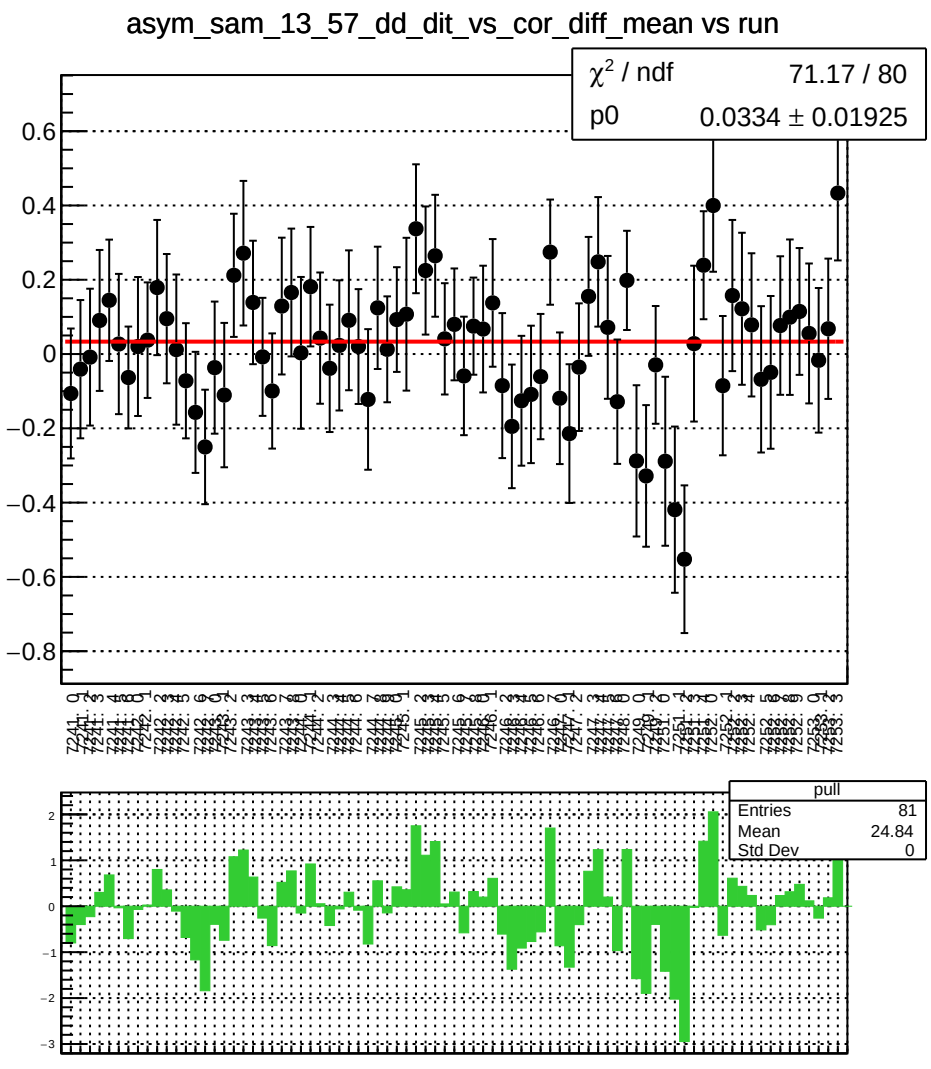

pull1D
Entries 81
Mean −0.002756
Std Dev 0.8941
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

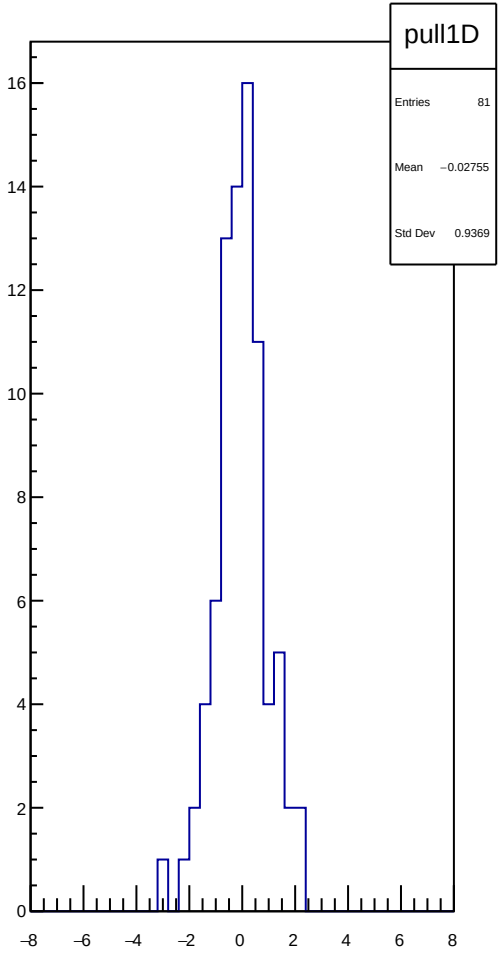

asym_sam_13_57_dd_rms vs run
χ^2 / ndf 2382 / 80
p0 315 ± 0.2533
350
340
330
320
310
300
290
280

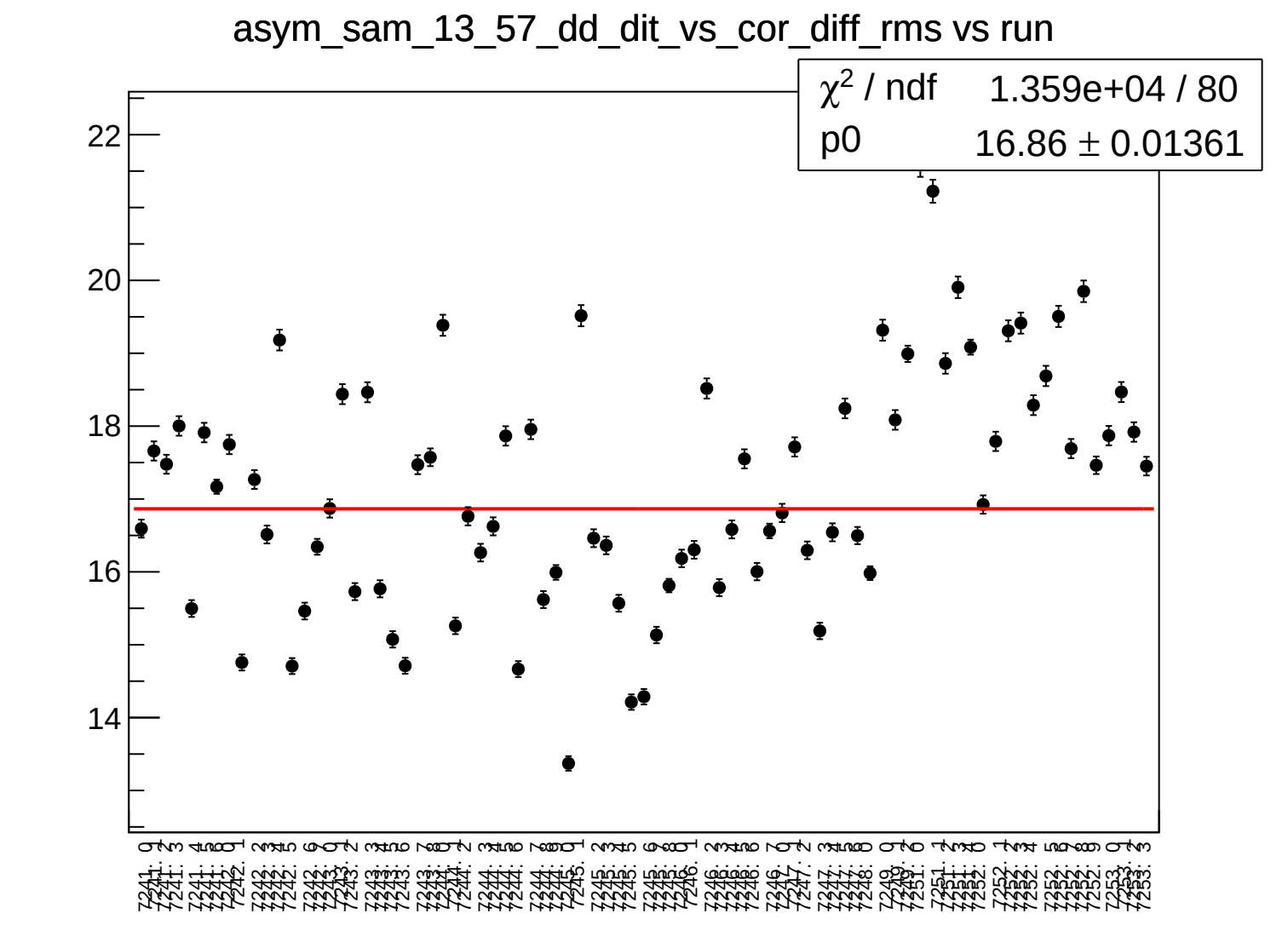

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 93.12 / 80
p0 2.315e−14 ± 1.127e−14
pull
Entries 81
Mean 30.53
Std Dev 0

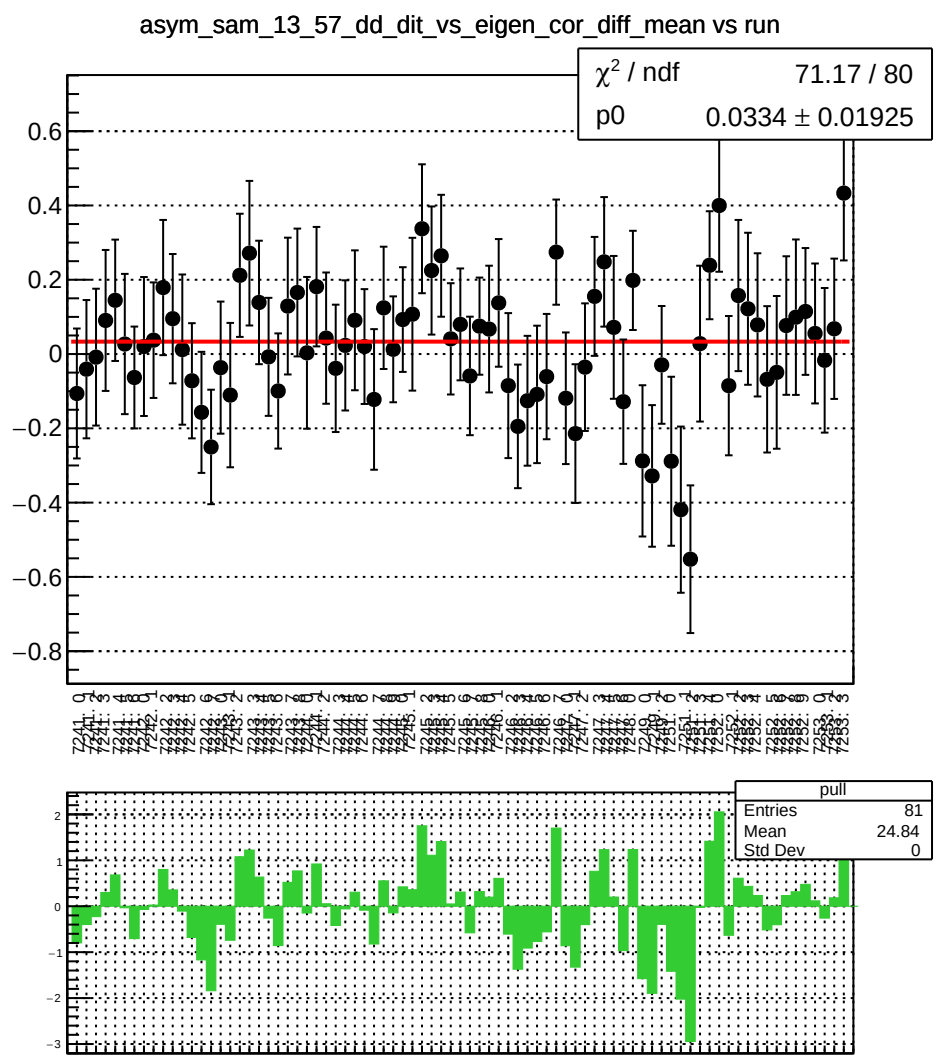

pull1D
Entries 81
Mean −0.08365
Std Dev 1.069

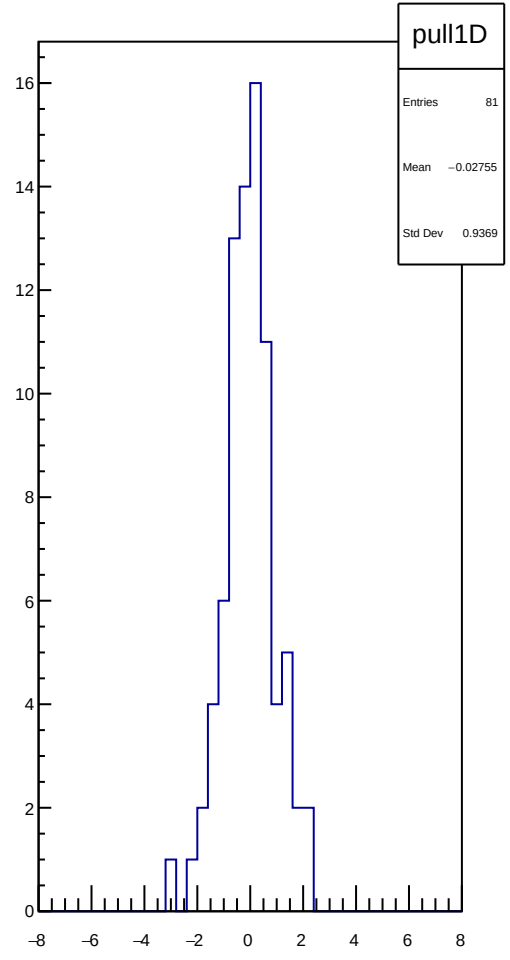

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.444e+05 / 80
p0 6.198e−12 ± 7.97e−15
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

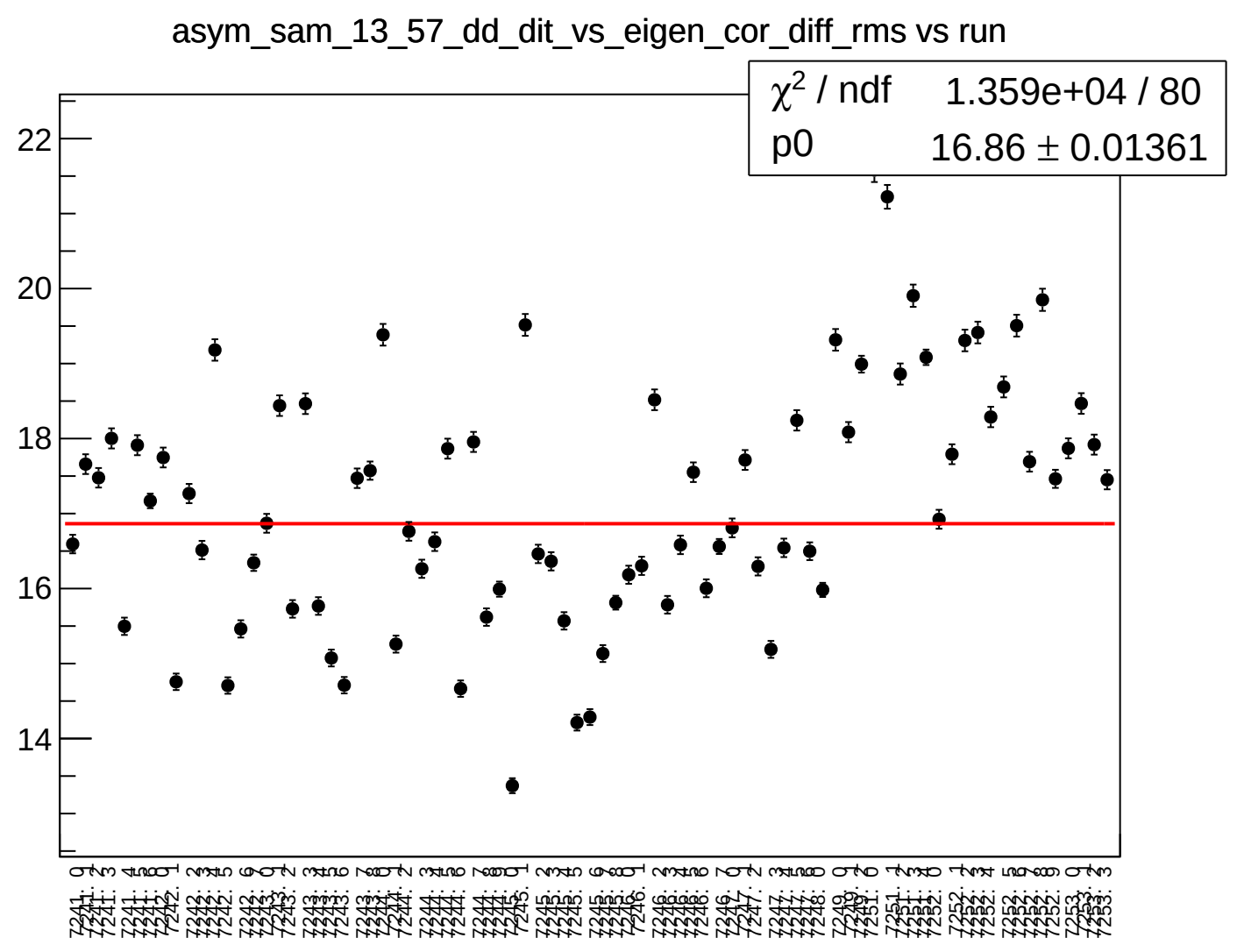

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 71.17 / 80
p0 0.0334 ± 0.01925
pull
Entries 81
Mean 24.84
Std Dev 0

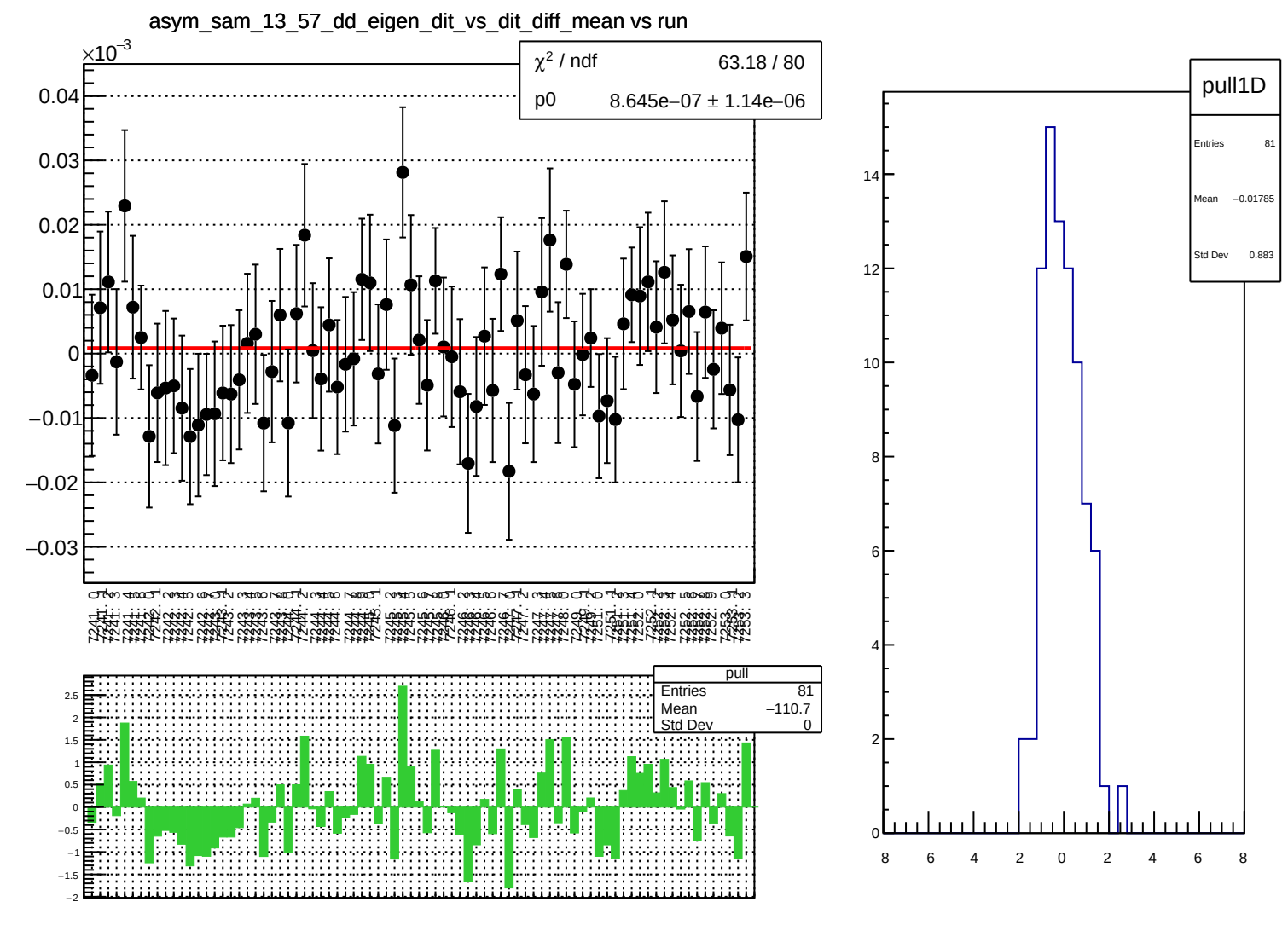

pull1D
Entries 81
Mean −0.02755
Std Dev 0.9369

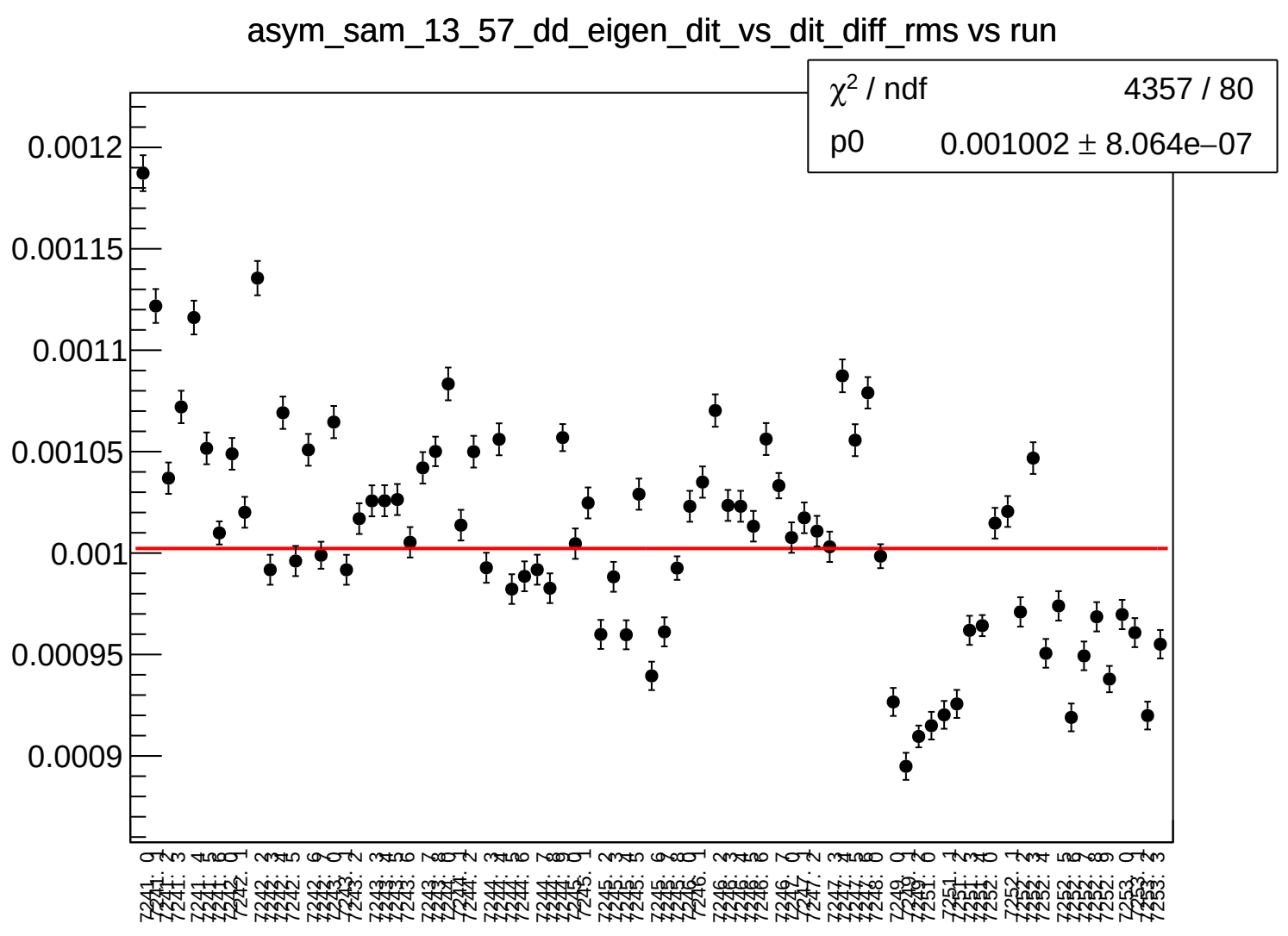

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.359e+04 / 80
p0 16.86 ± 0.01361
22
20
18
16
14

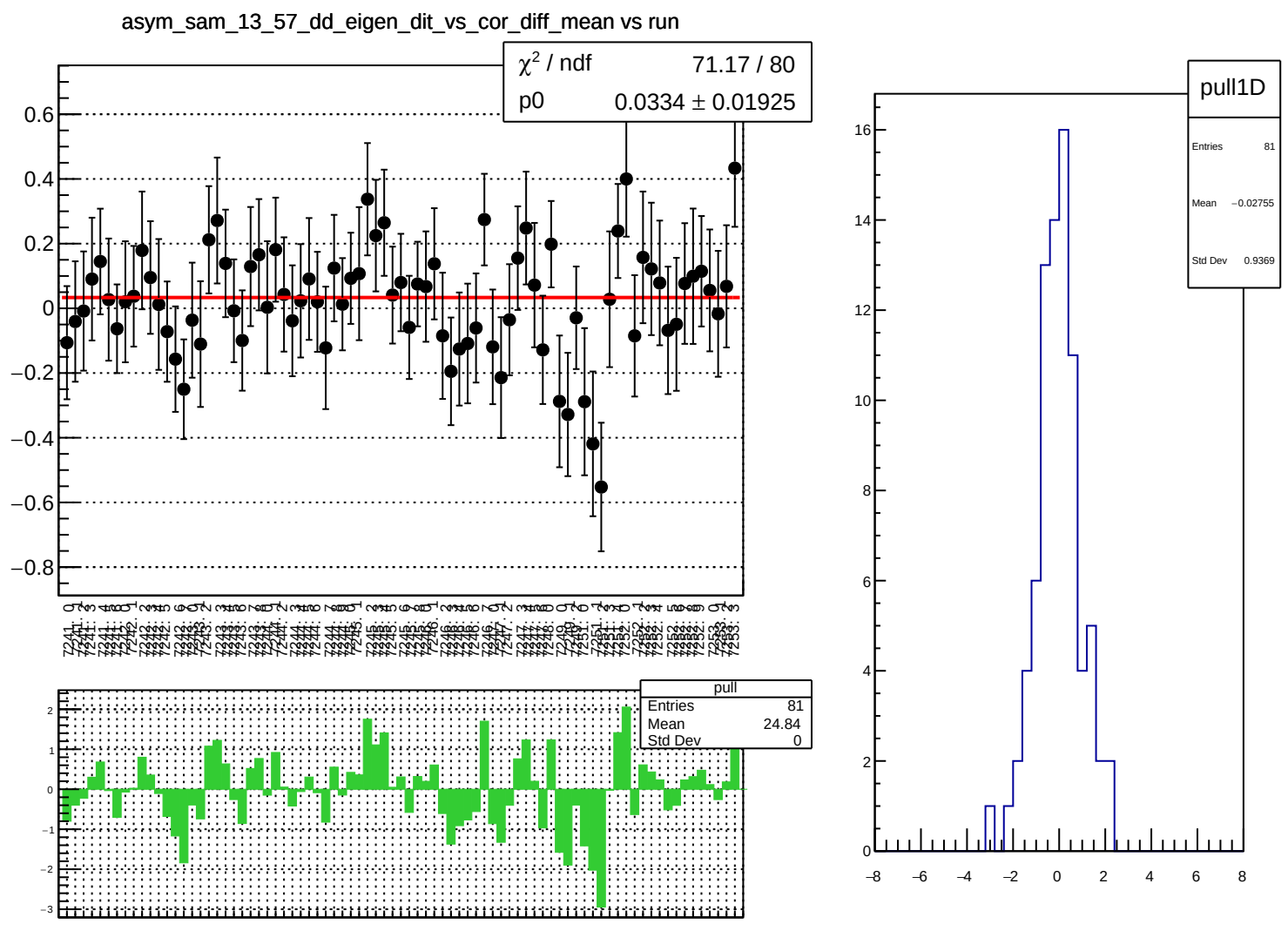

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.17 / 80
p0 0.0334 ± 0.01925
pull
Entries 81
Mean 24.84
Std Dev 0

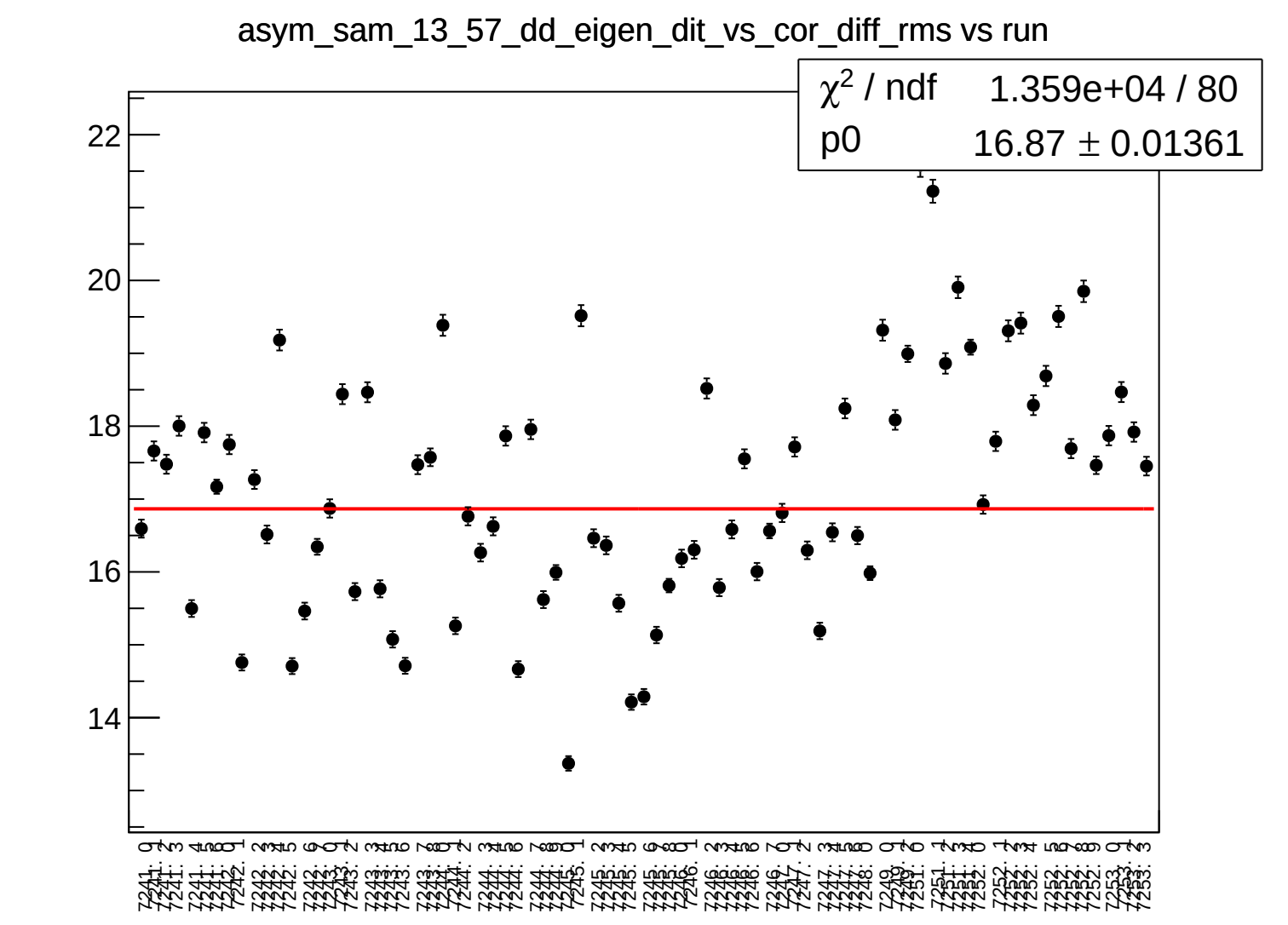

pull1D
Entries 81
Mean −0.02755
Std Dev 0.9369

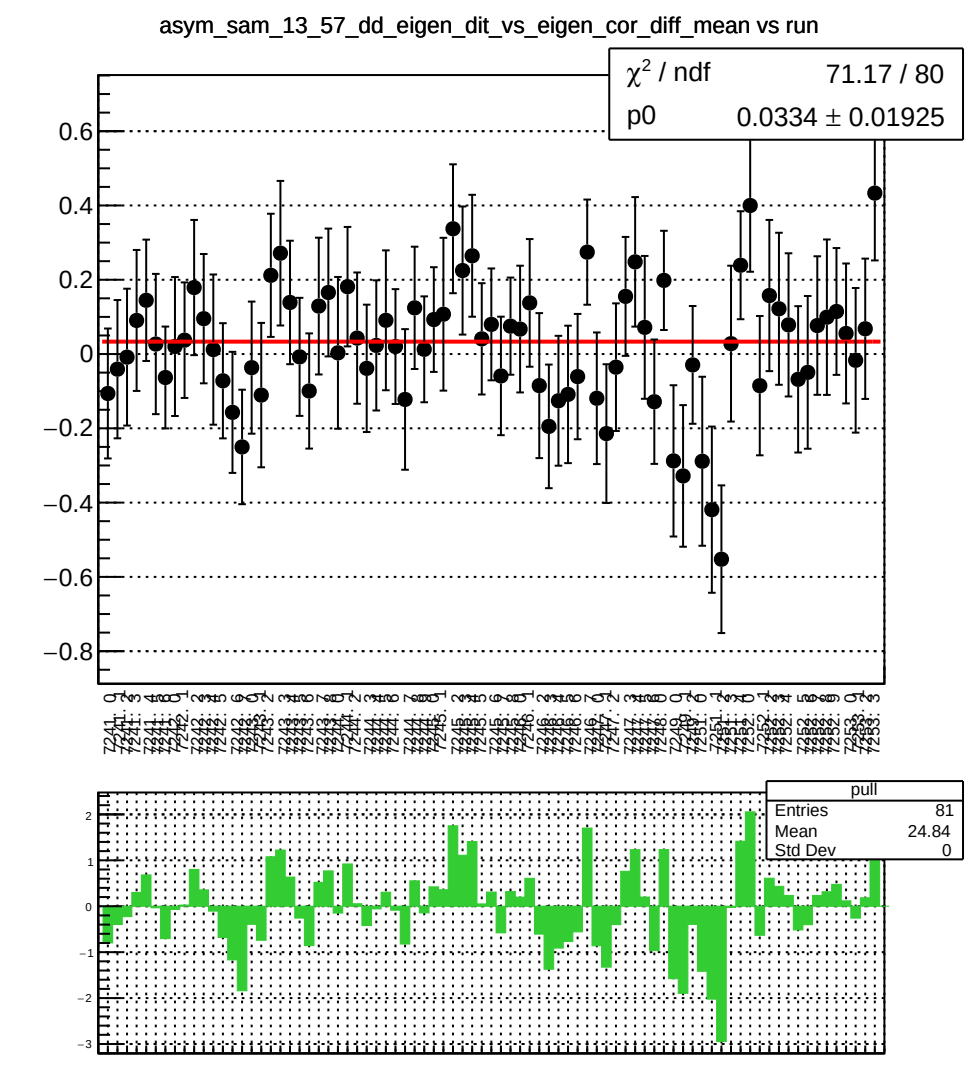

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.359e+04 / 80
p0 16.86 ± 0.01361
22
20
18
16
14

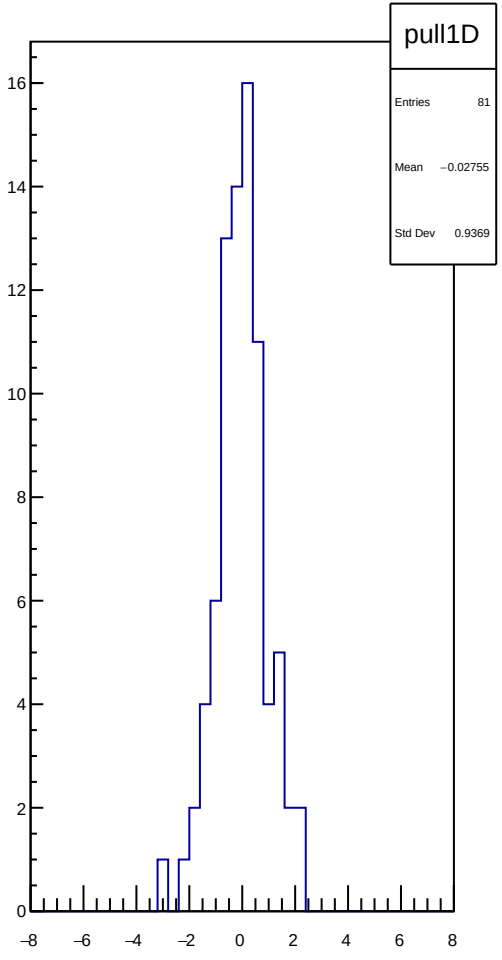

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 63.18 / 80
p0 8.645e−07 ± 1.14e−06
pull
Entries 81
Mean −110.7
Std Dev 0
pull1D
Entries 81
Mean −0.01785
Std Dev 0.883

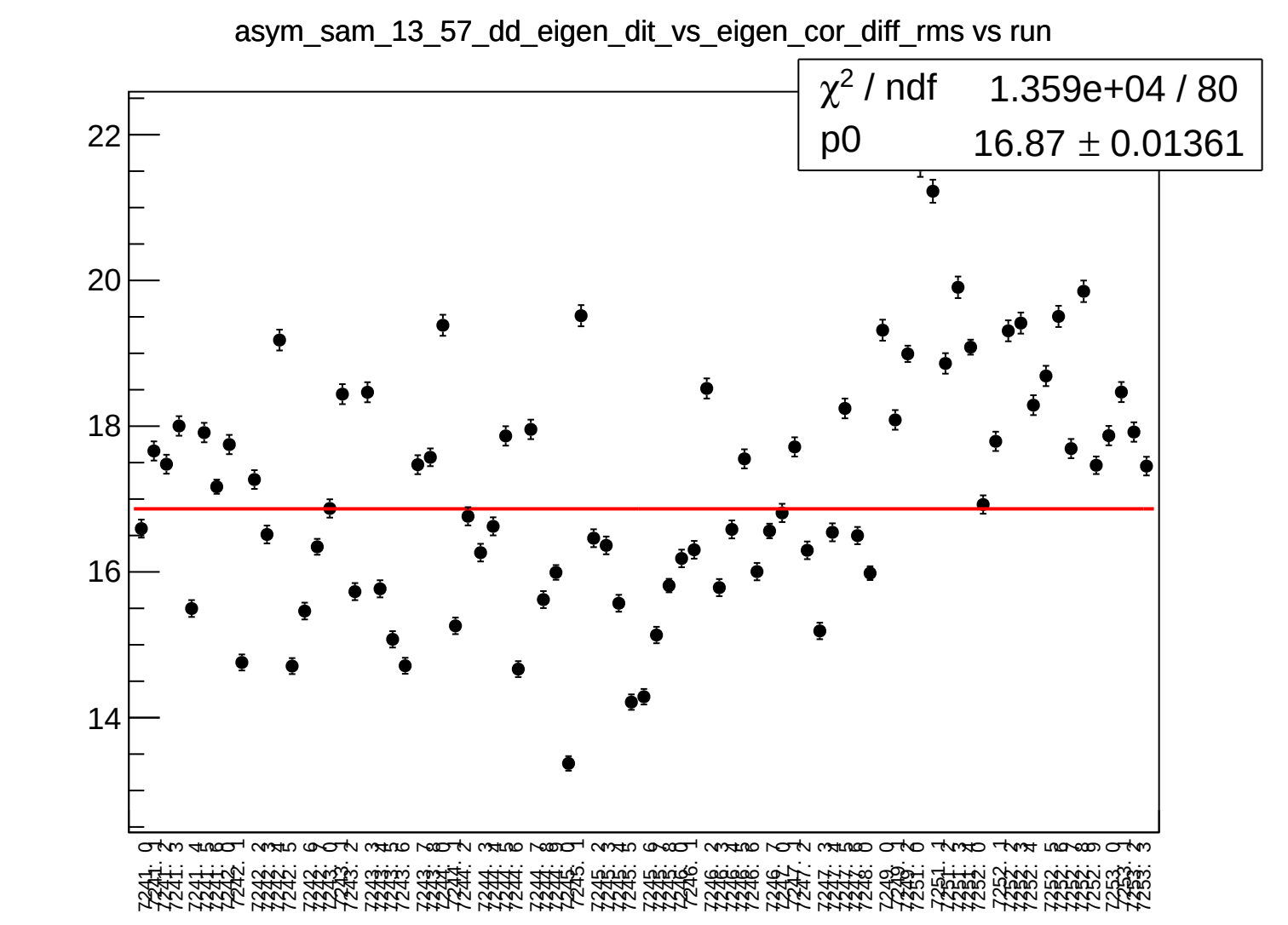

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4357 / 80
p0 0.001002 ± 8.064e−07
0.0012
0.00115
0.0011
0.00105
0.001
0.00095
0.0009

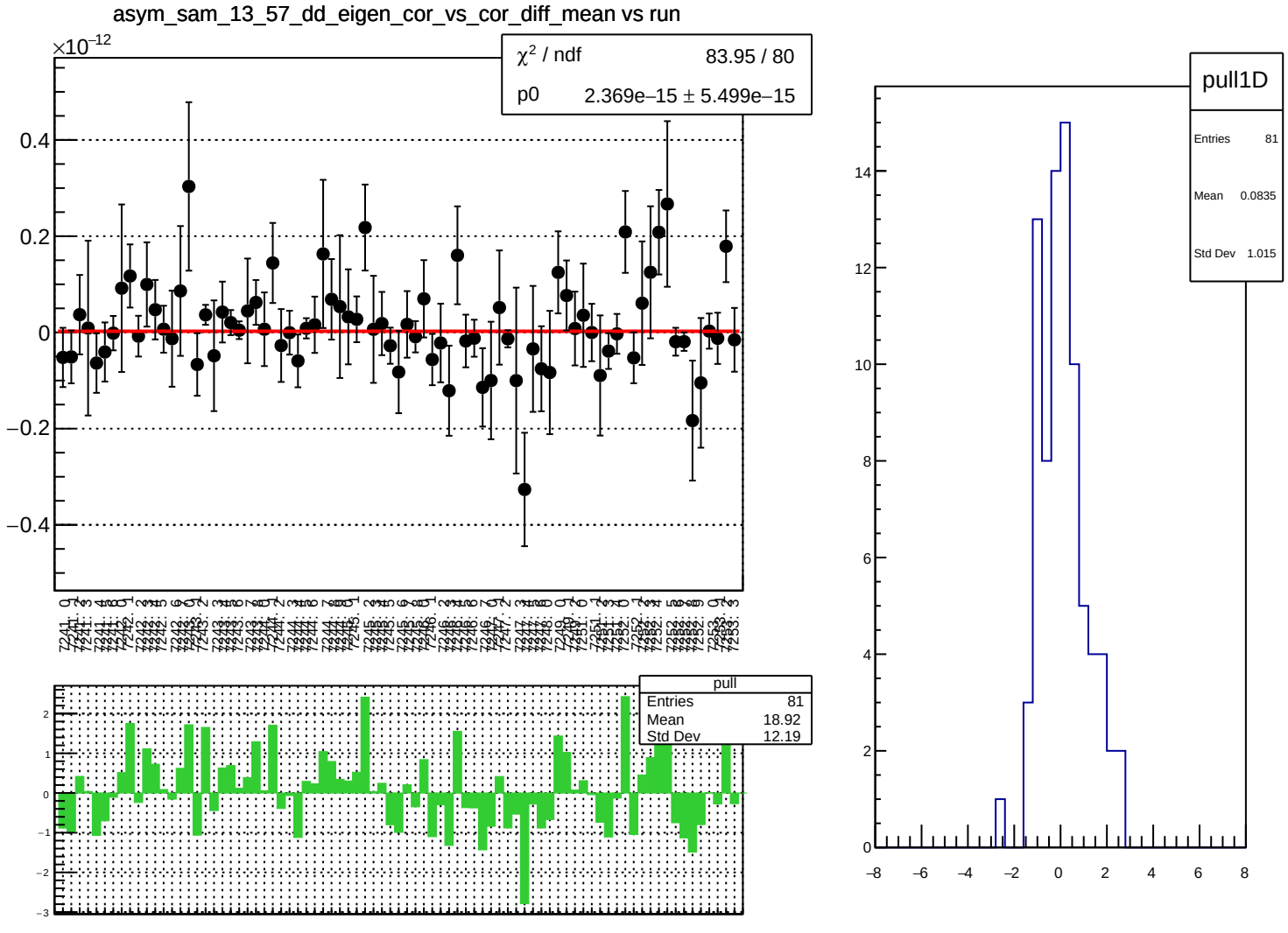

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.17 / 80
p0 0.0334 ± 0.01925
pull
Entries 81
Mean 24.84
Std Dev 0
pull1D
Entries 81
Mean −0.02755
Std Dev 0.9369

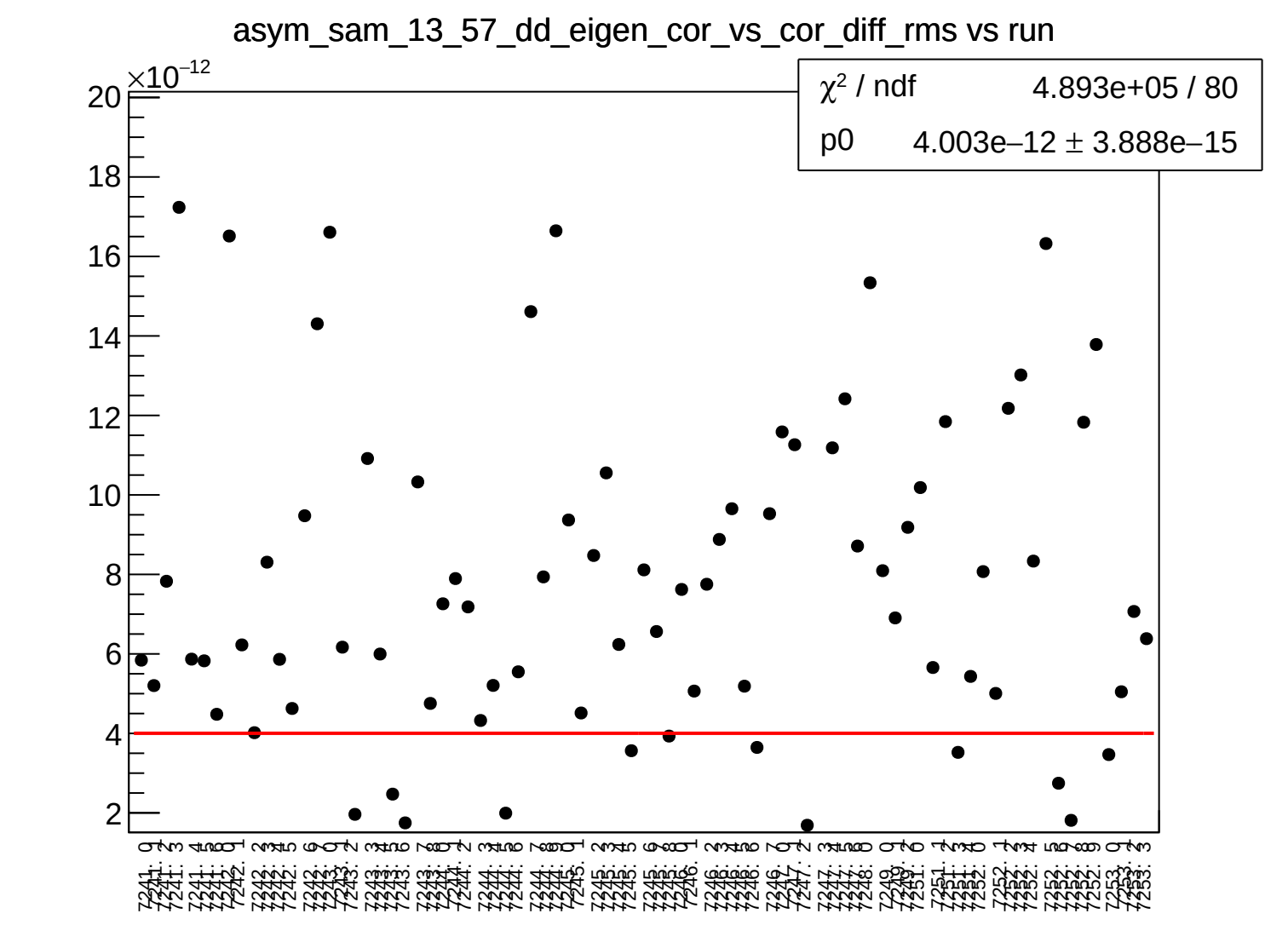

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.359e+04 / 80
p0 16.87 ± 0.01361
22
20
18
16
14

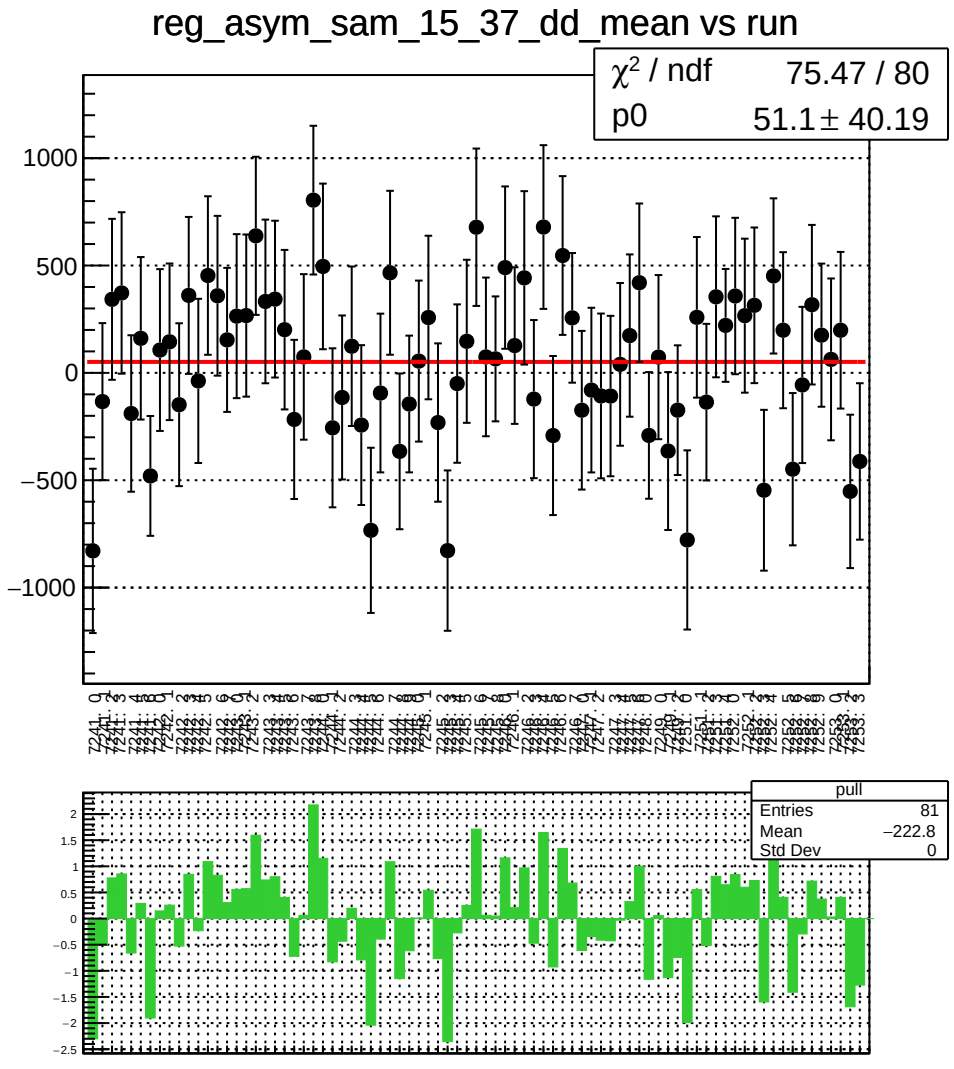

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.17 / 80
p0 0.0334 ± 0.01925
pull
Entries 81
Mean 24.84
Std Dev 0

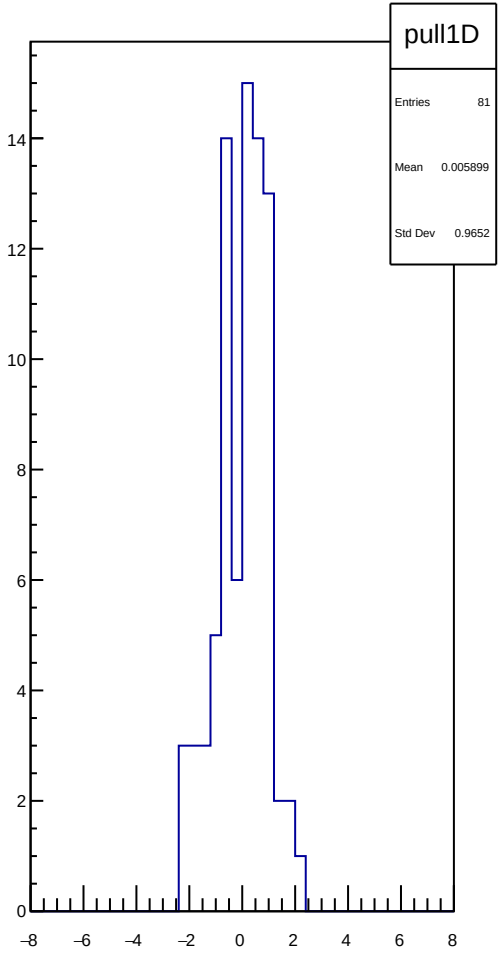

pull1D
Entries 81
Mean −0.02755
Std Dev 0.9369

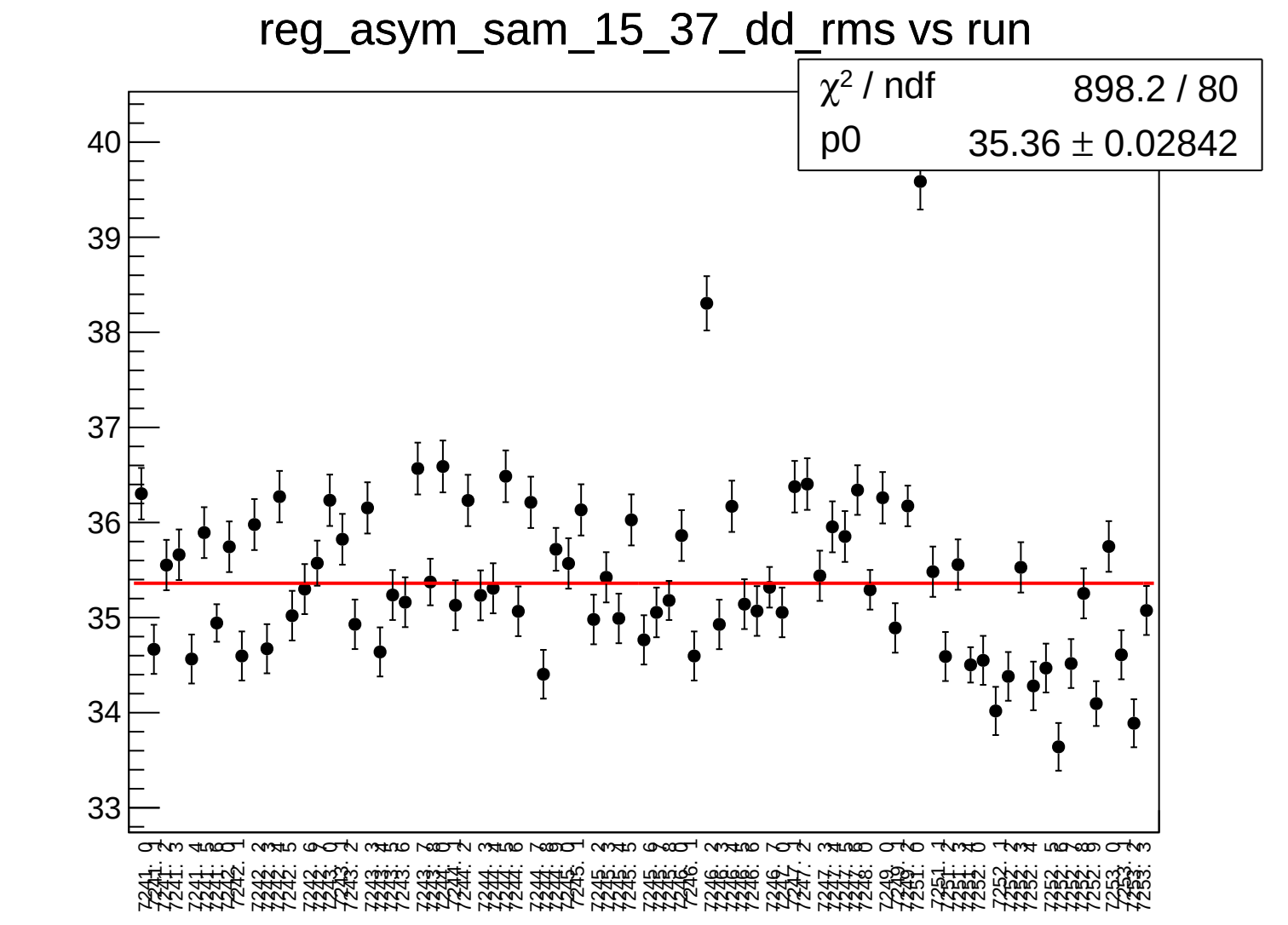

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.359e+04 / 80
p0 16.87 ± 0.01361
22
20
18
16
14

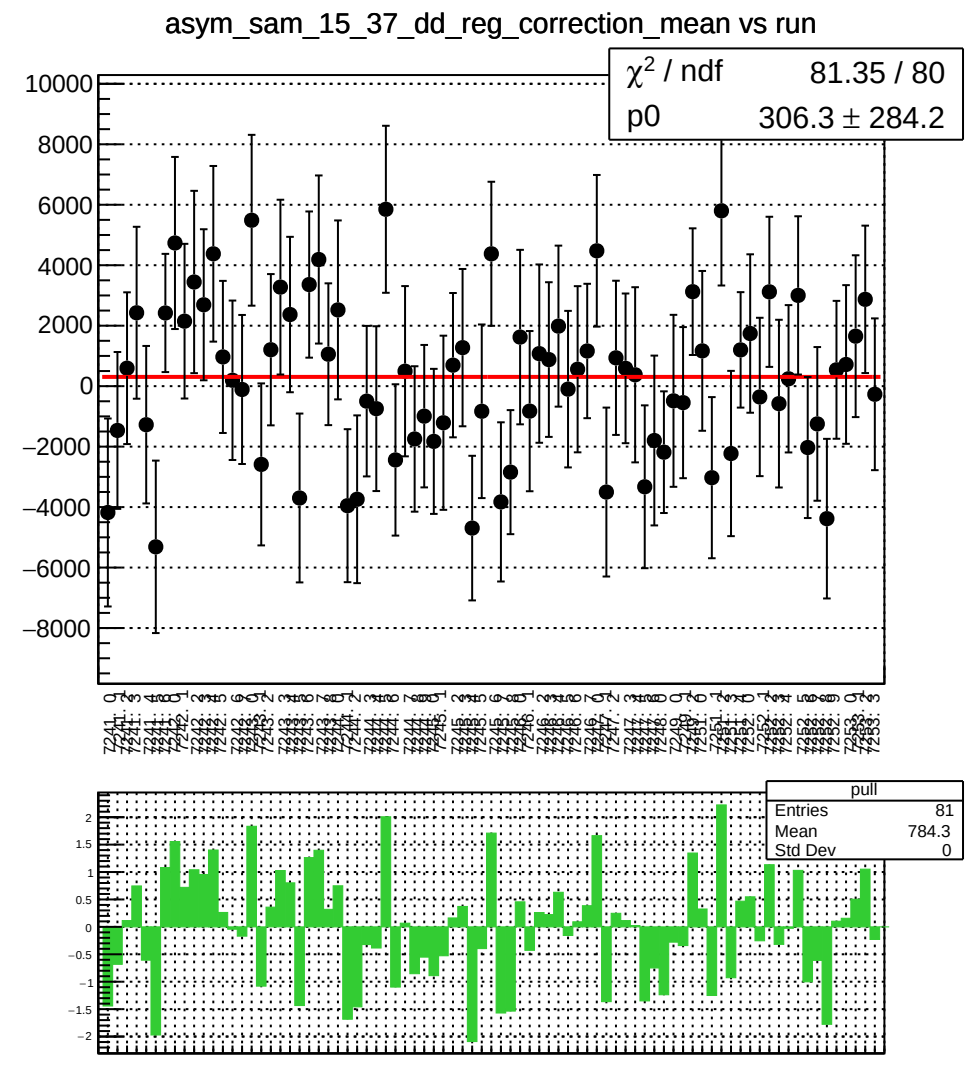

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.95 / 80
p0 2.369e−15 ± 5.499e−15
0.4
0.2
0
−0.2
−0.4
pull
Entries 81
Mean 18.92
Std Dev 12.19
2
1
0
−1
−2
−3
pull1D
Entries 81
Mean 0.0835
Std Dev 1.015
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

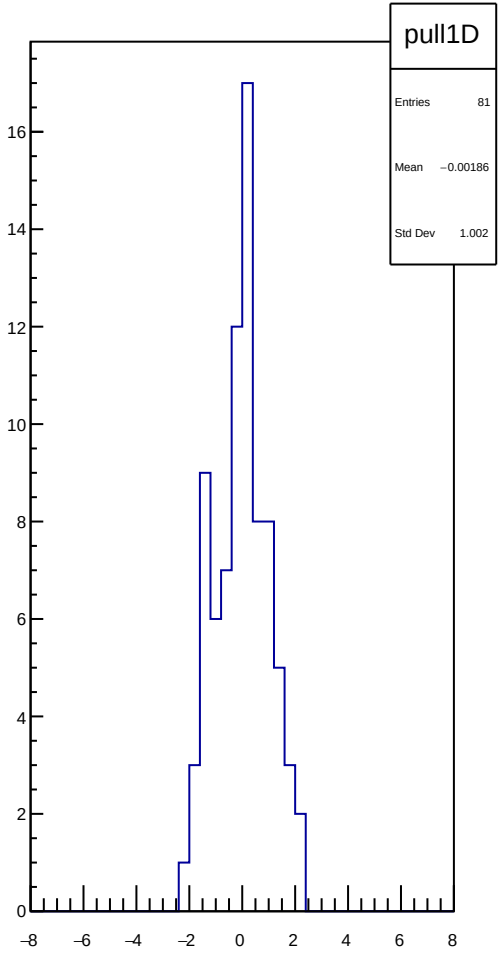

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.893e+05 / 80
p0 4.003e−12 ± 3.888e−15
20
18
16
14
12
10
8
6
4
2

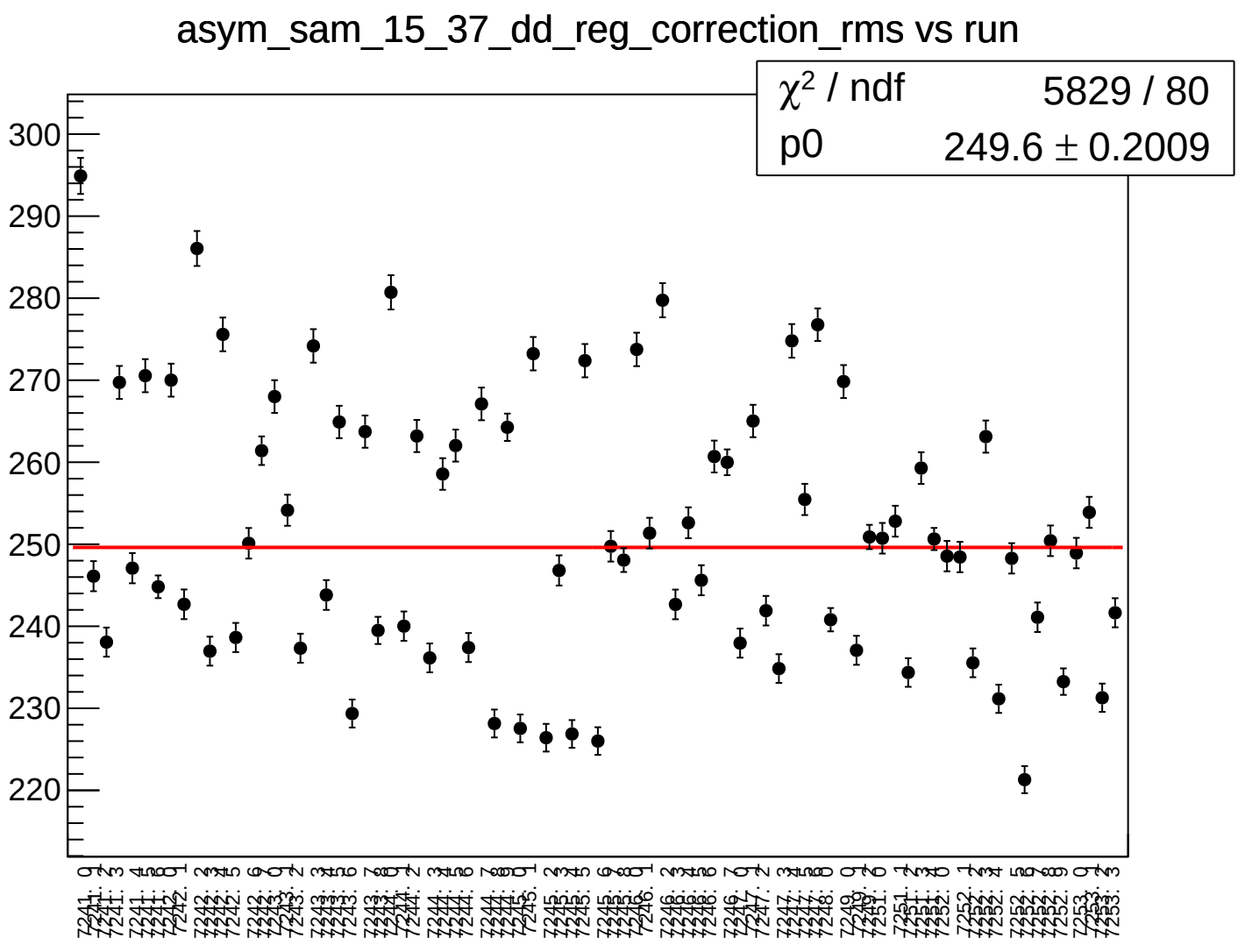

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 75.47 / 80
p0 51.1 ± 40.19
1000
500
0
−500
−1000
pull
Entries 81
Mean −222.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

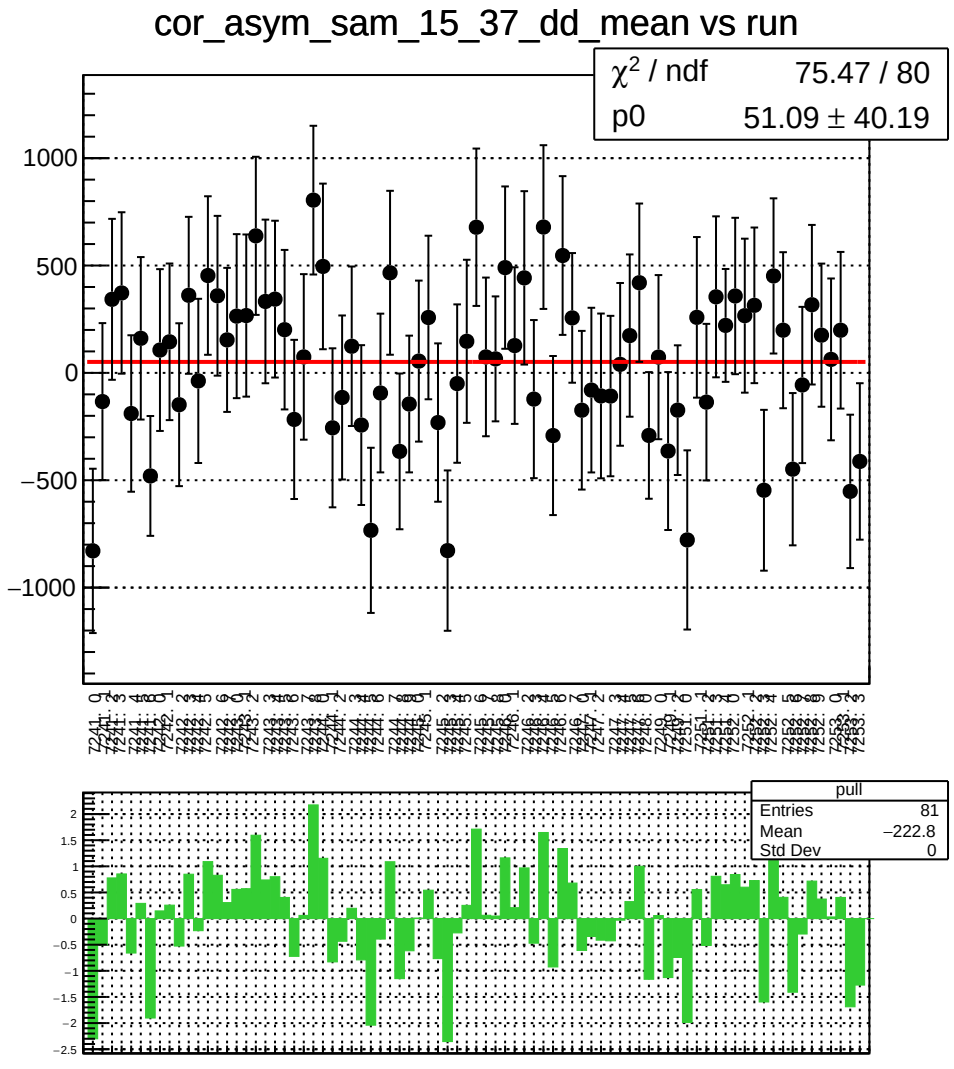

pull1D
Entries 81
Mean 0.005899
Std Dev 0.9652
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

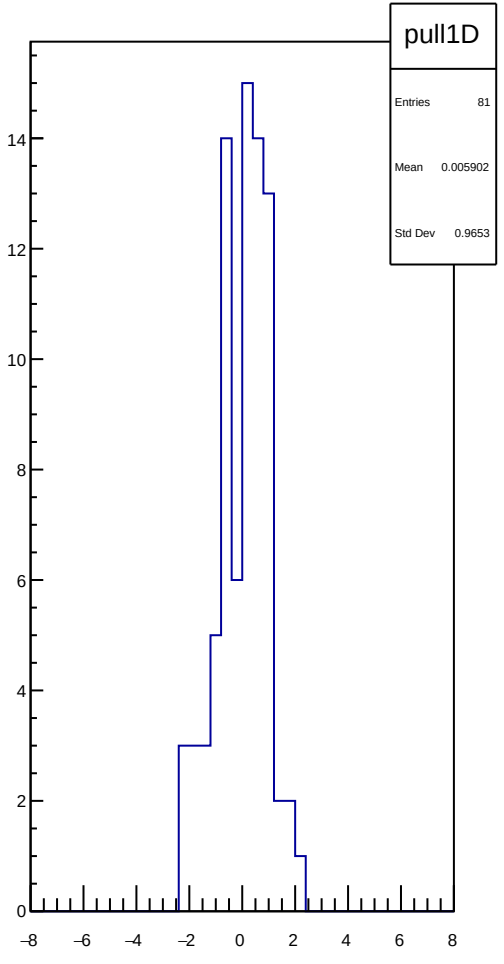

reg_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 898.2 / 80
p0 35.36 ± 0.02842
40
39
38
37
36
35
34
33

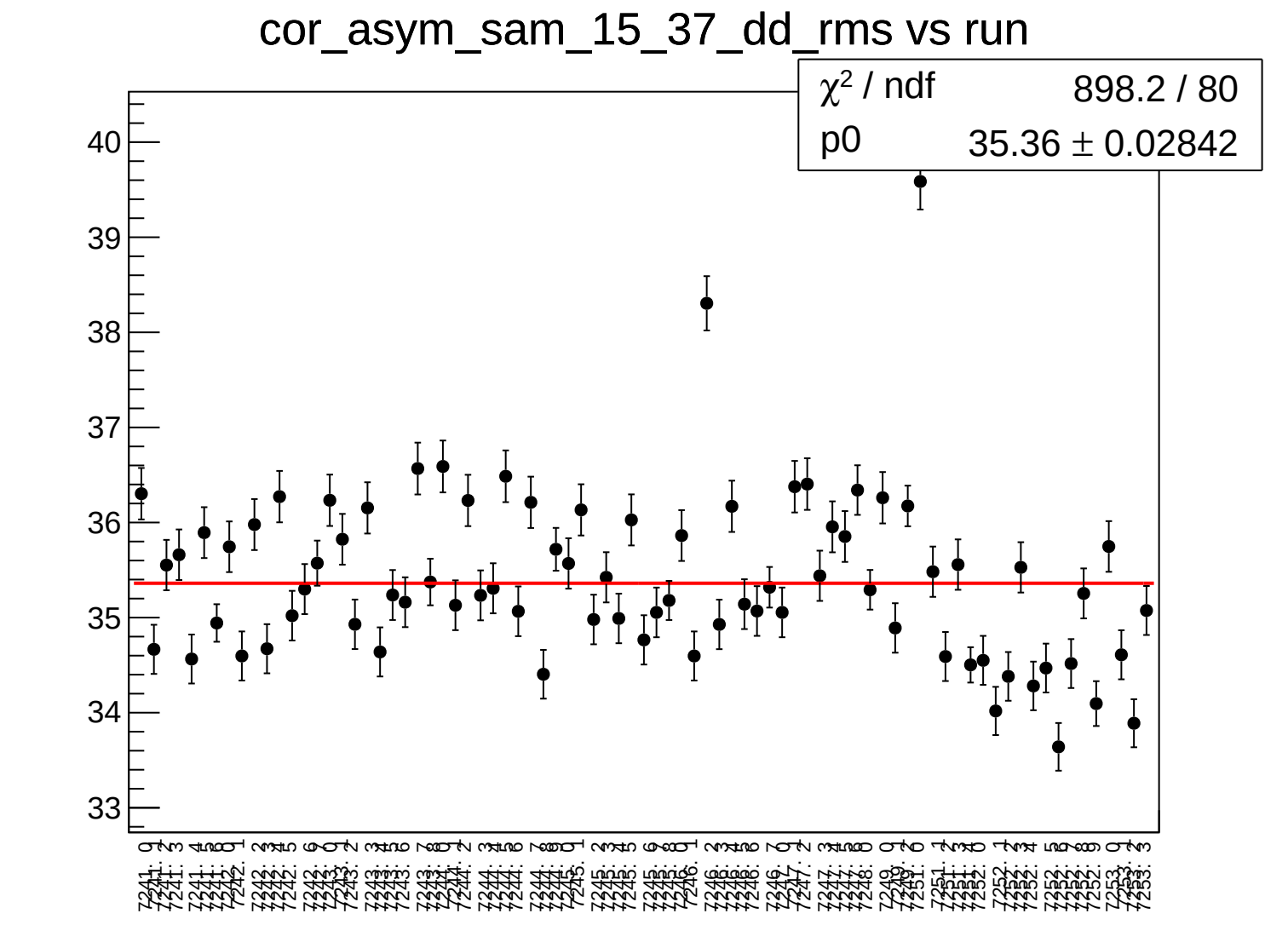

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 81.35 / 80
p0 306.3 ± 284.2
pull
Entries 81
Mean 784.3
Std Dev 0

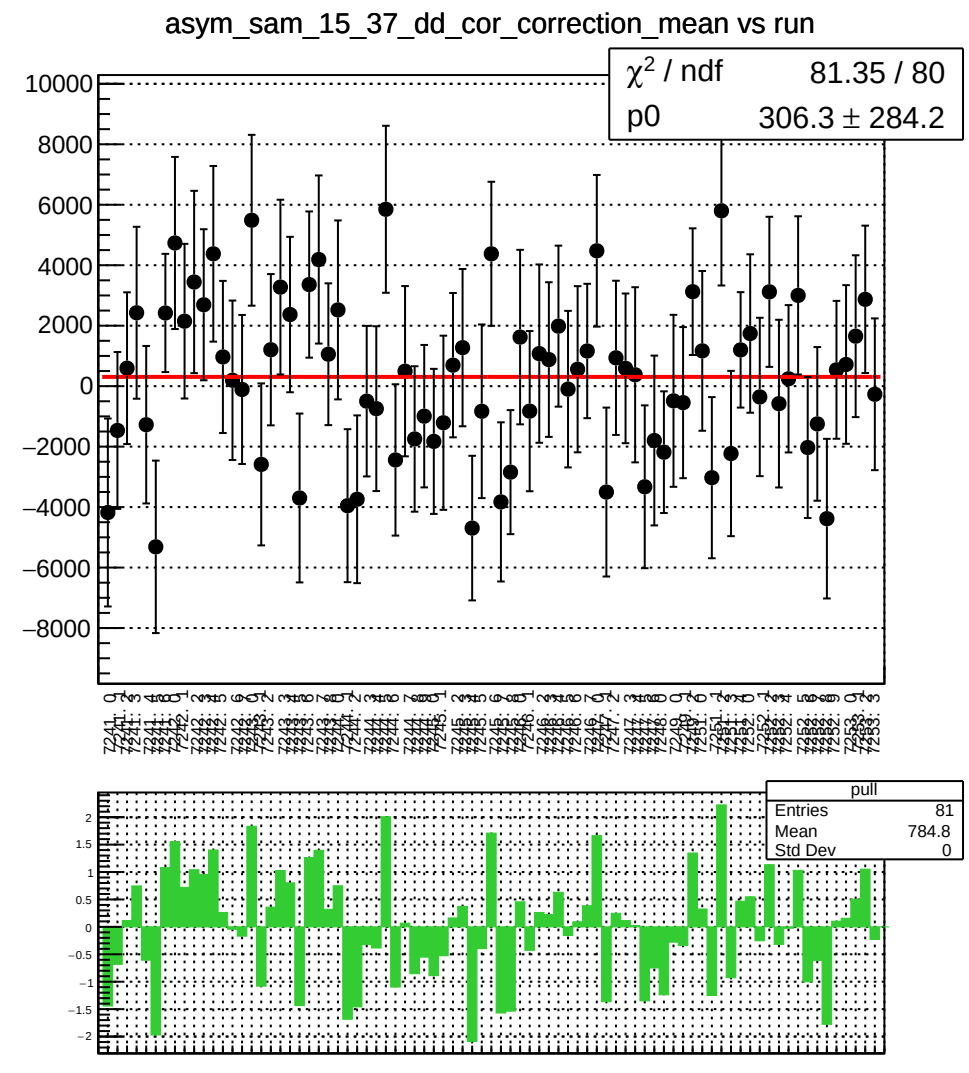

pull1D
Entries 81
Mean −0.00186
Std Dev 1.002

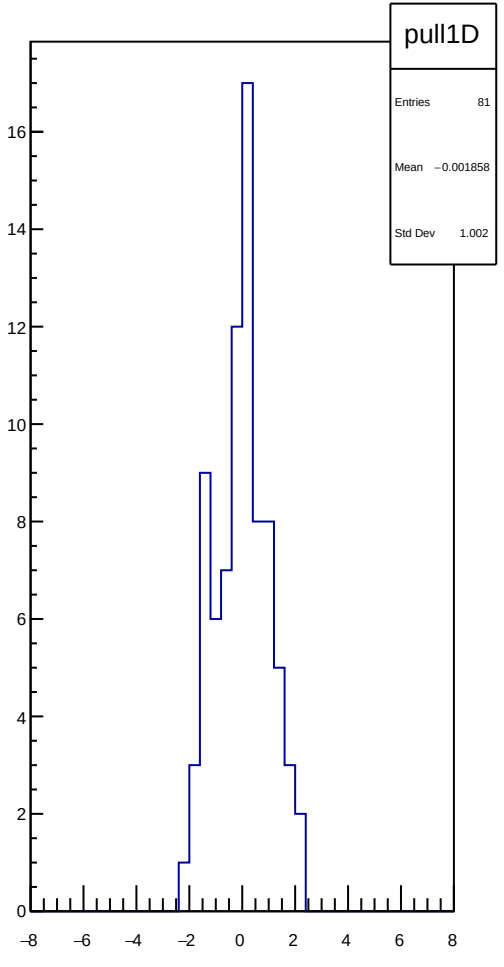

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 5829 / 80
p0 249.6 ± 0.2009
300
290
280
270
260
250
240
230
220

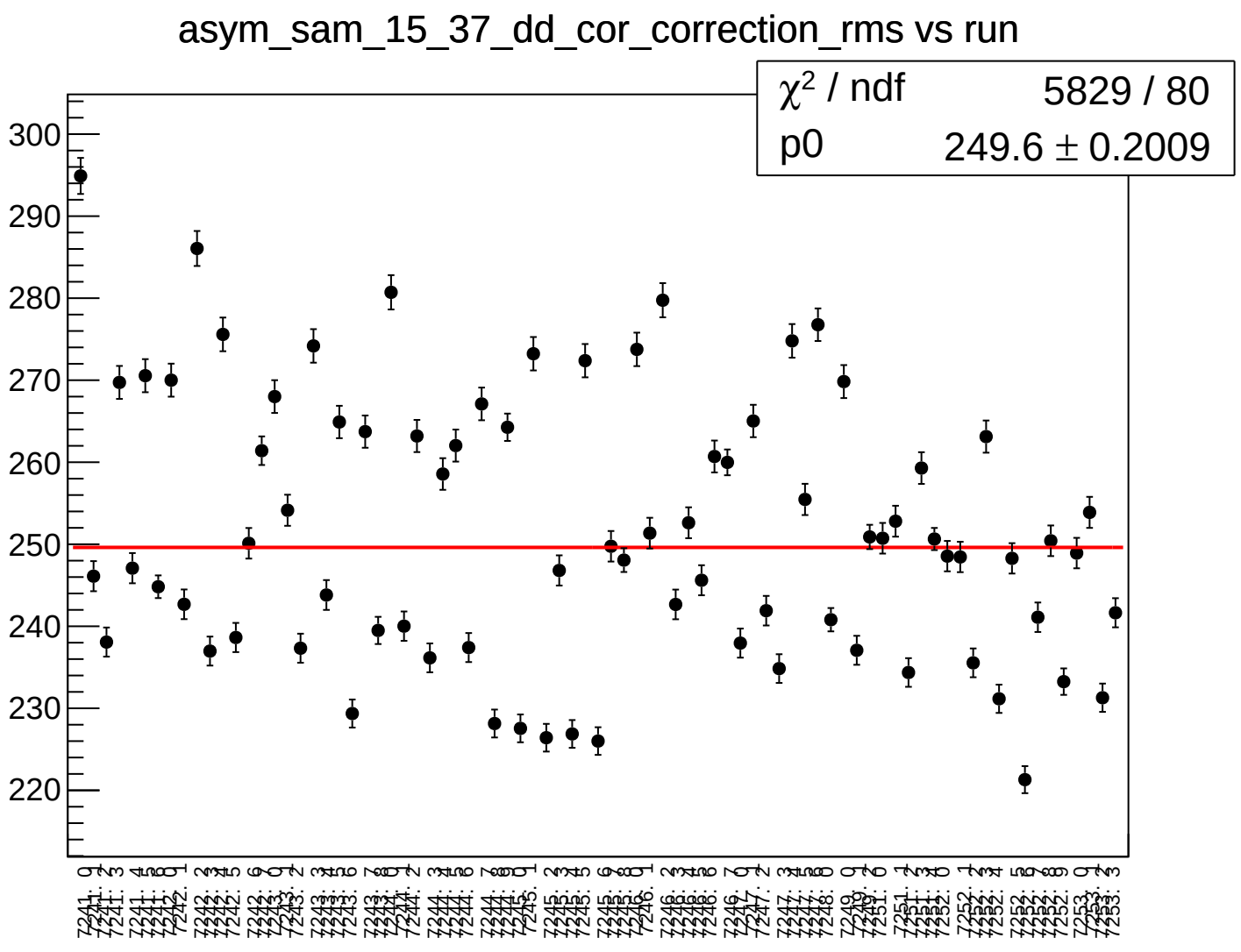

cor_asym_sam_15_37_dd_mean vs run
χ^2 / ndf 75.47 / 80
p0 51.09 ± 40.19
1000
500
0
−500
−1000
pull
Entries 81
Mean −222.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

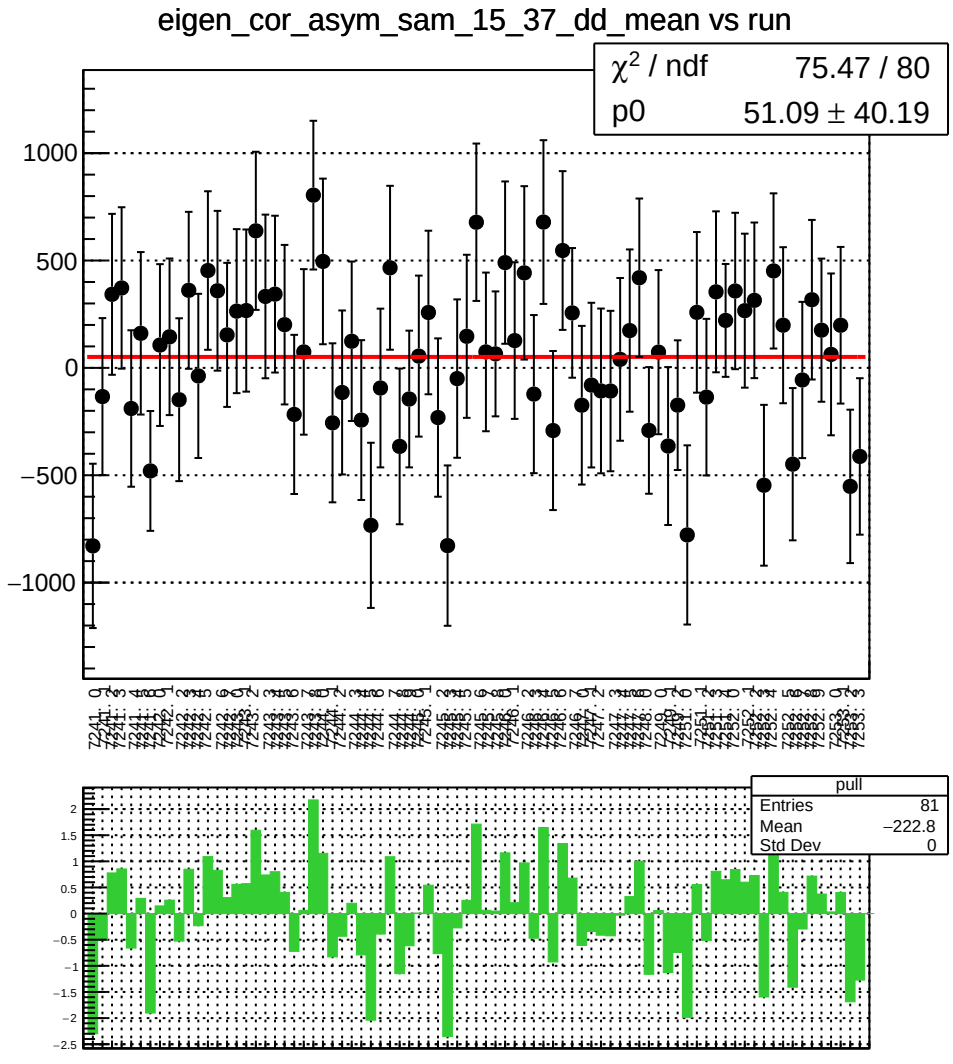

pull1D
Entries 81
Mean 0.005902
Std Dev 0.9653
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

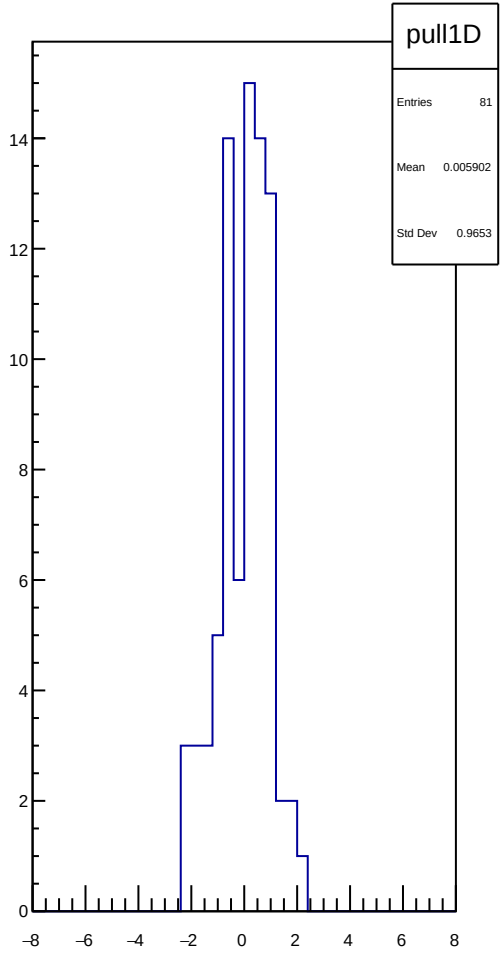

cor_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 898.2 / 80
p0 35.36 ± 0.02842
40
39
38
37
36
35
34
33

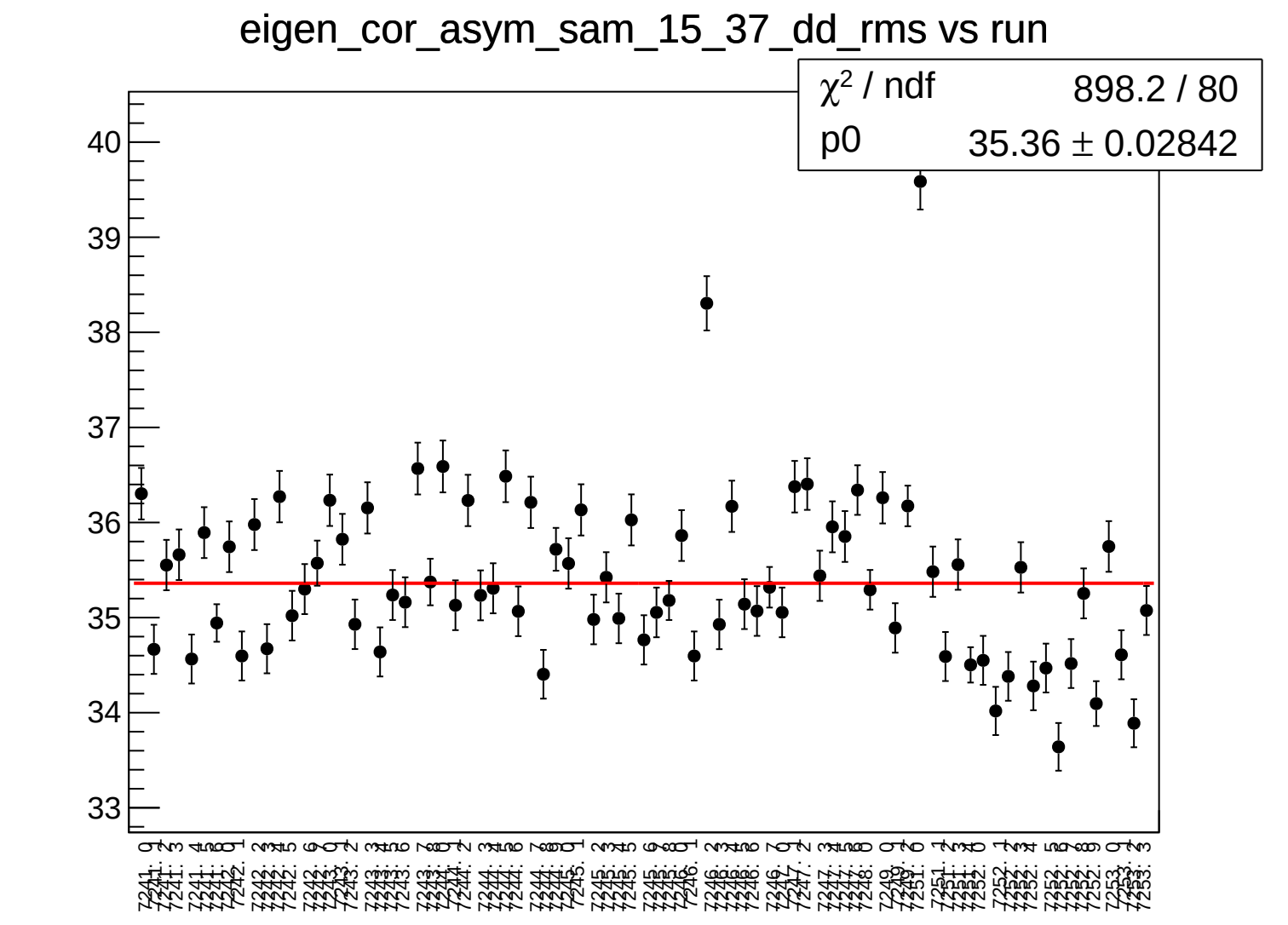

asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 81.35 / 80
p0 306.3 ± 284.2
pull
Entries 81
Mean 784.8
Std Dev 0

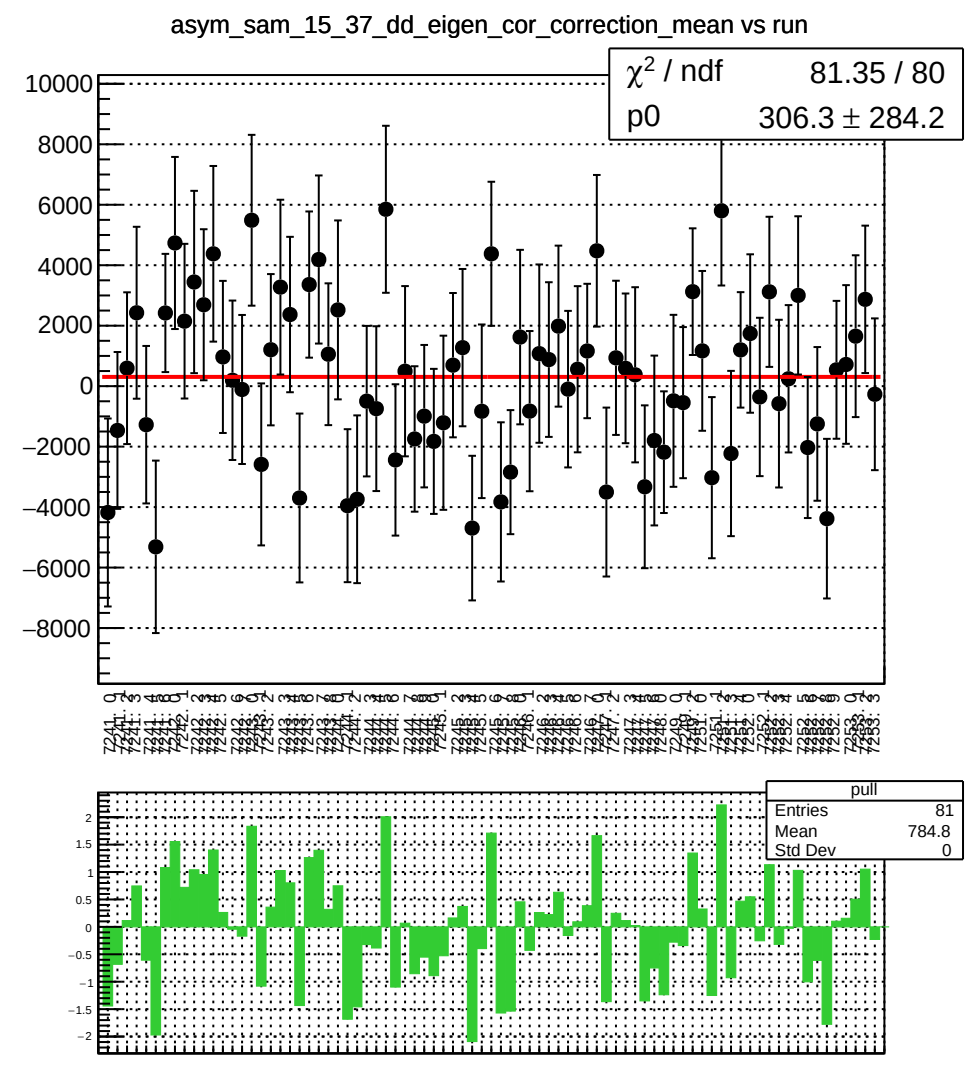

pull1D
Entries 81
Mean −0.001858
Std Dev 1.002

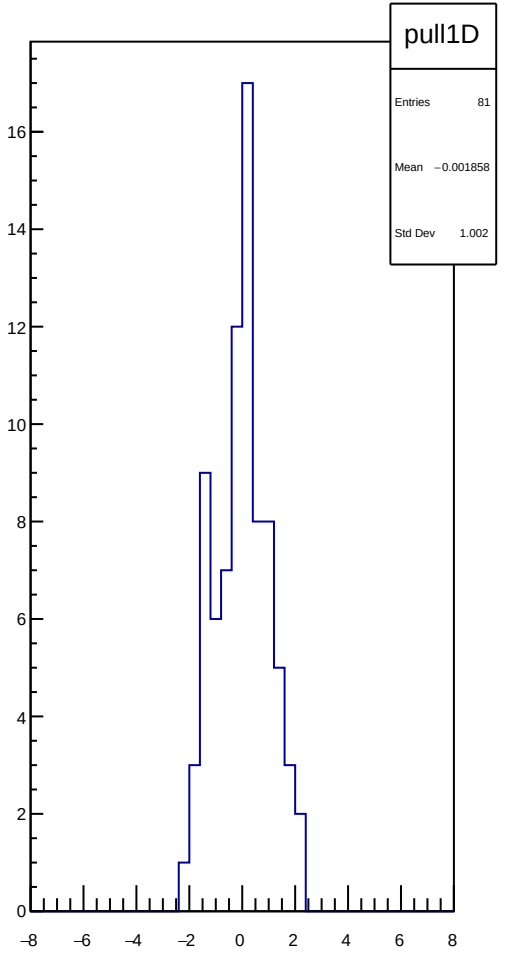

asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 5829 / 80
p0 249.6 ± 0.2009
300
290
280
270
260
250
240
230
220

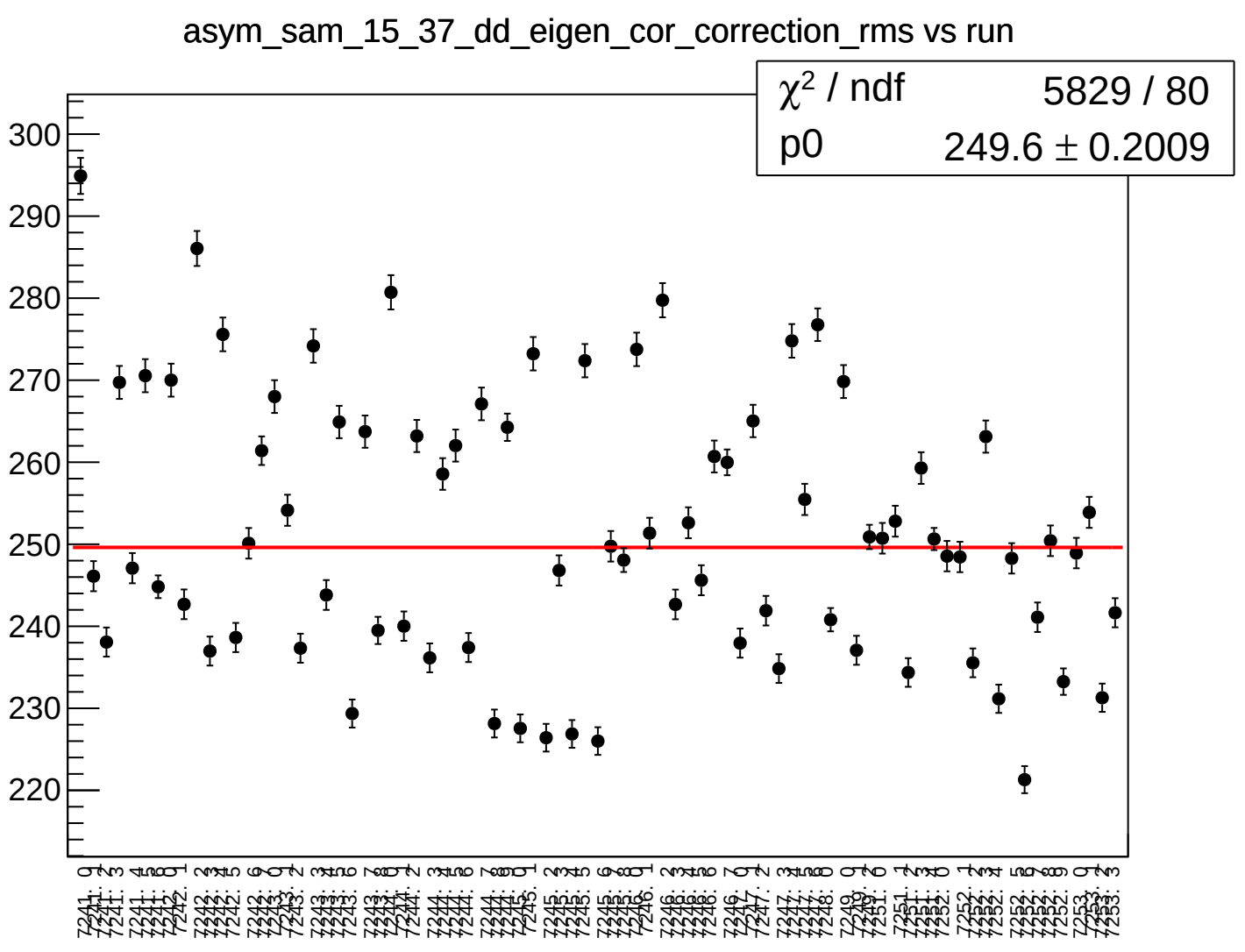

eigen_cor_asym_sam_15_37_dd_mean vs run
χ^2 / ndf 75.47 / 80
p0 51.09 ± 40.19
1000
500
0
−500
−1000
pull
Entries 81
Mean −222.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

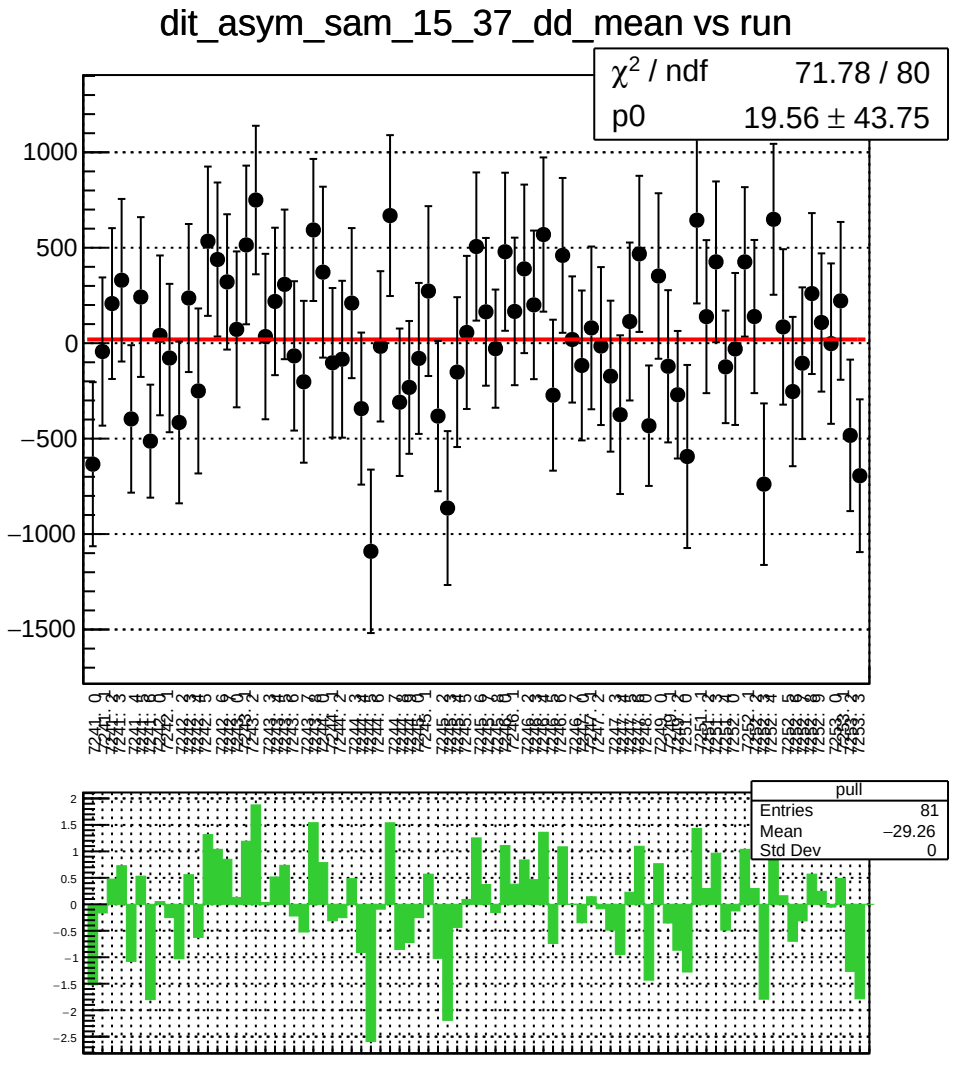

pull1D
Entries 81
Mean 0.005902
Std Dev 0.9653
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

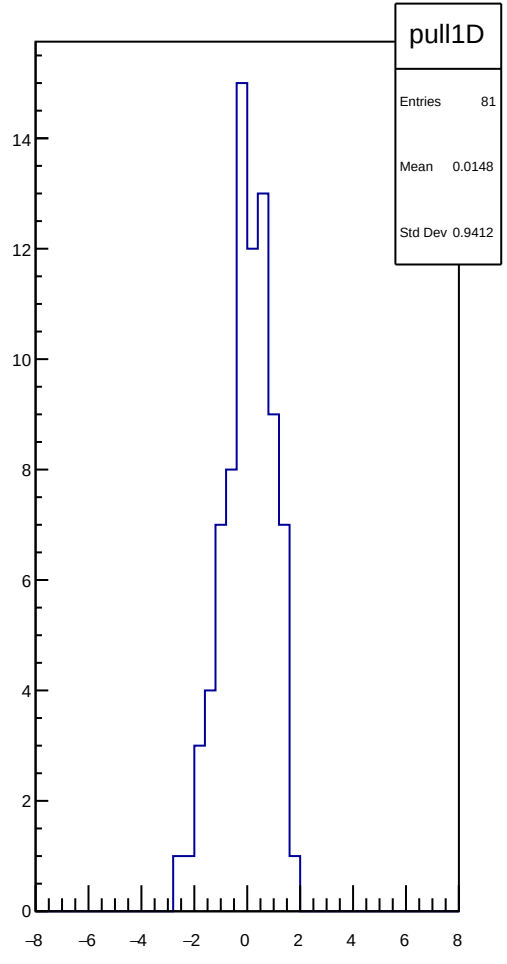

eigen_cor_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 898.2 / 80
p0 35.36 ± 0.02842
40
39
38
37
36
35
34
33

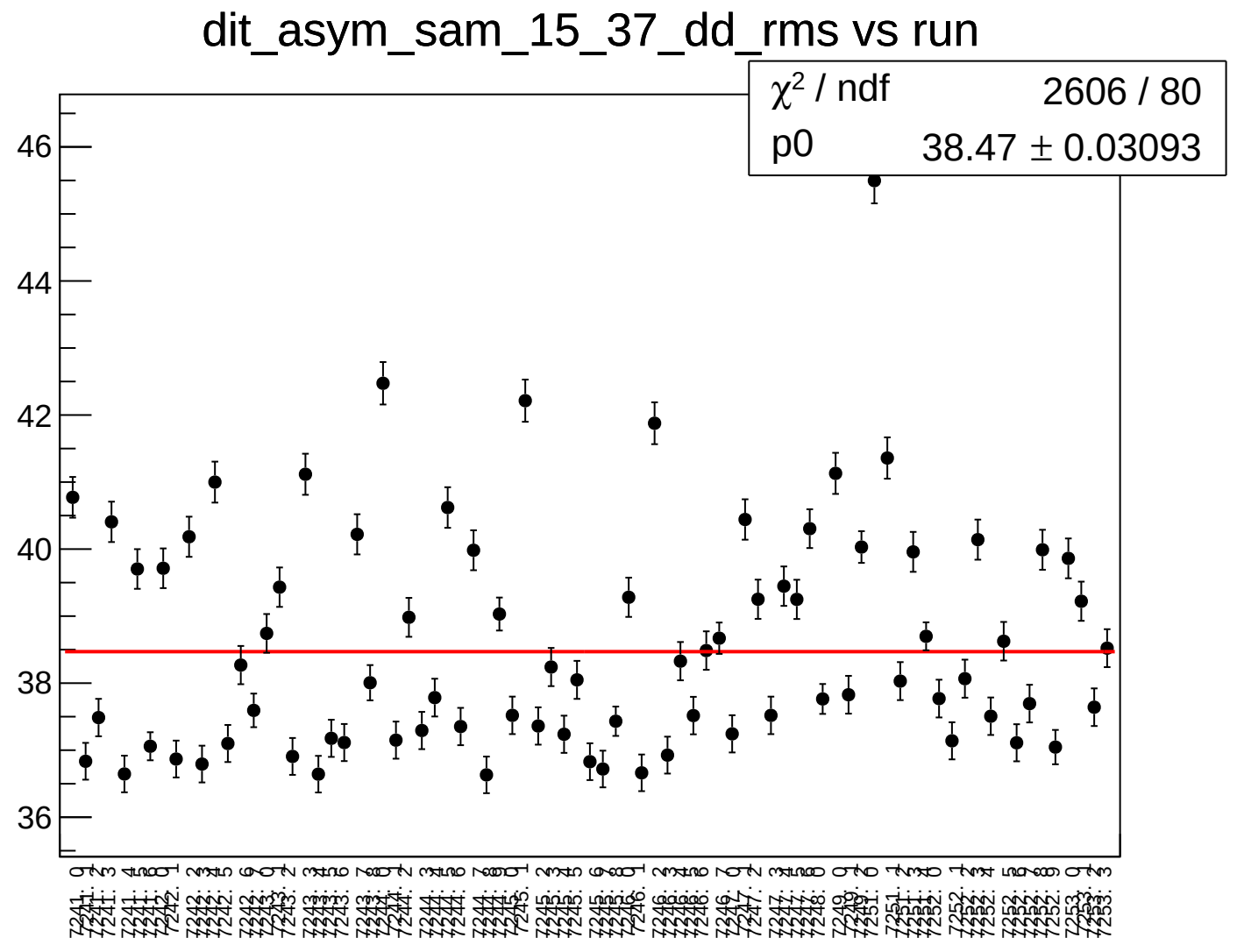

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 81.35 / 80
p0 306.3 ± 284.2
pull
Entries 81
Mean 784.8
Std Dev 0

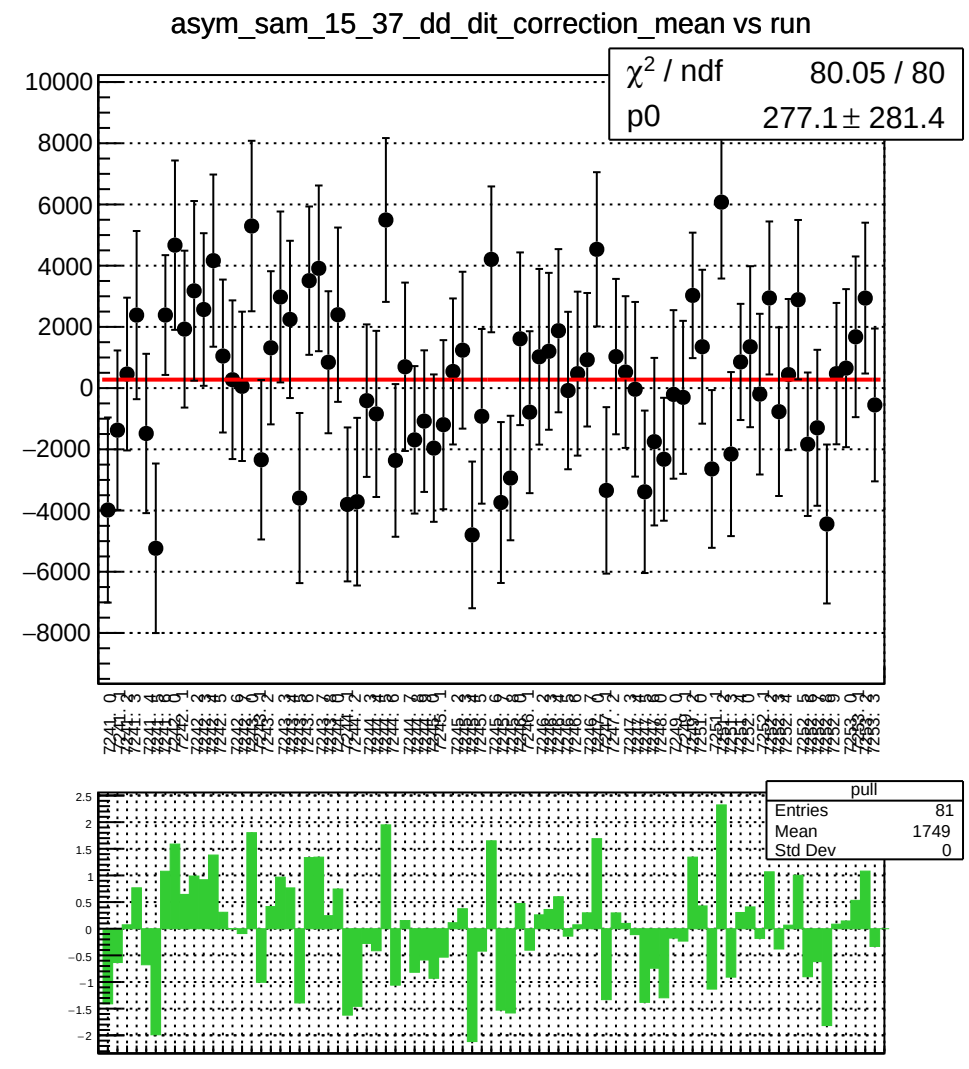

pull1D
Entries 81
Mean −0.001858
Std Dev 1.002

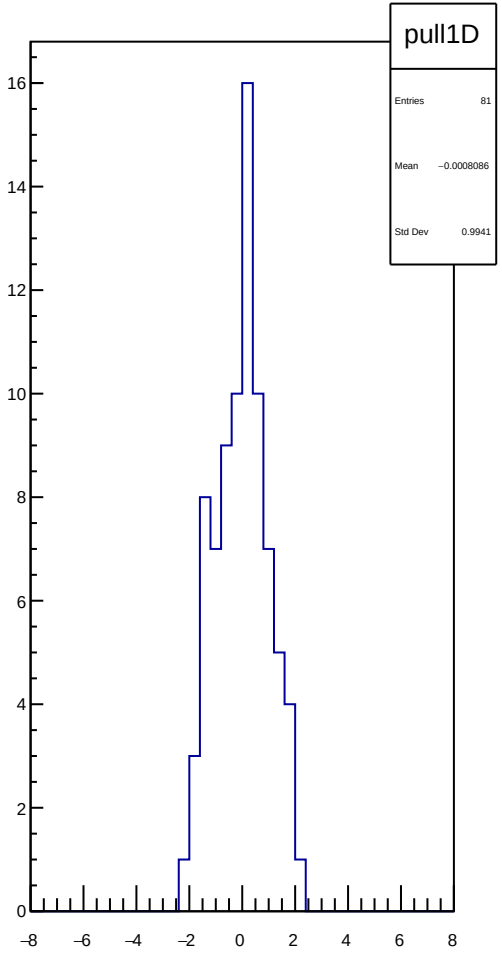

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 5829 / 80
p0 249.6 ± 0.2009
300
290
280
270
260
250
240
230
220

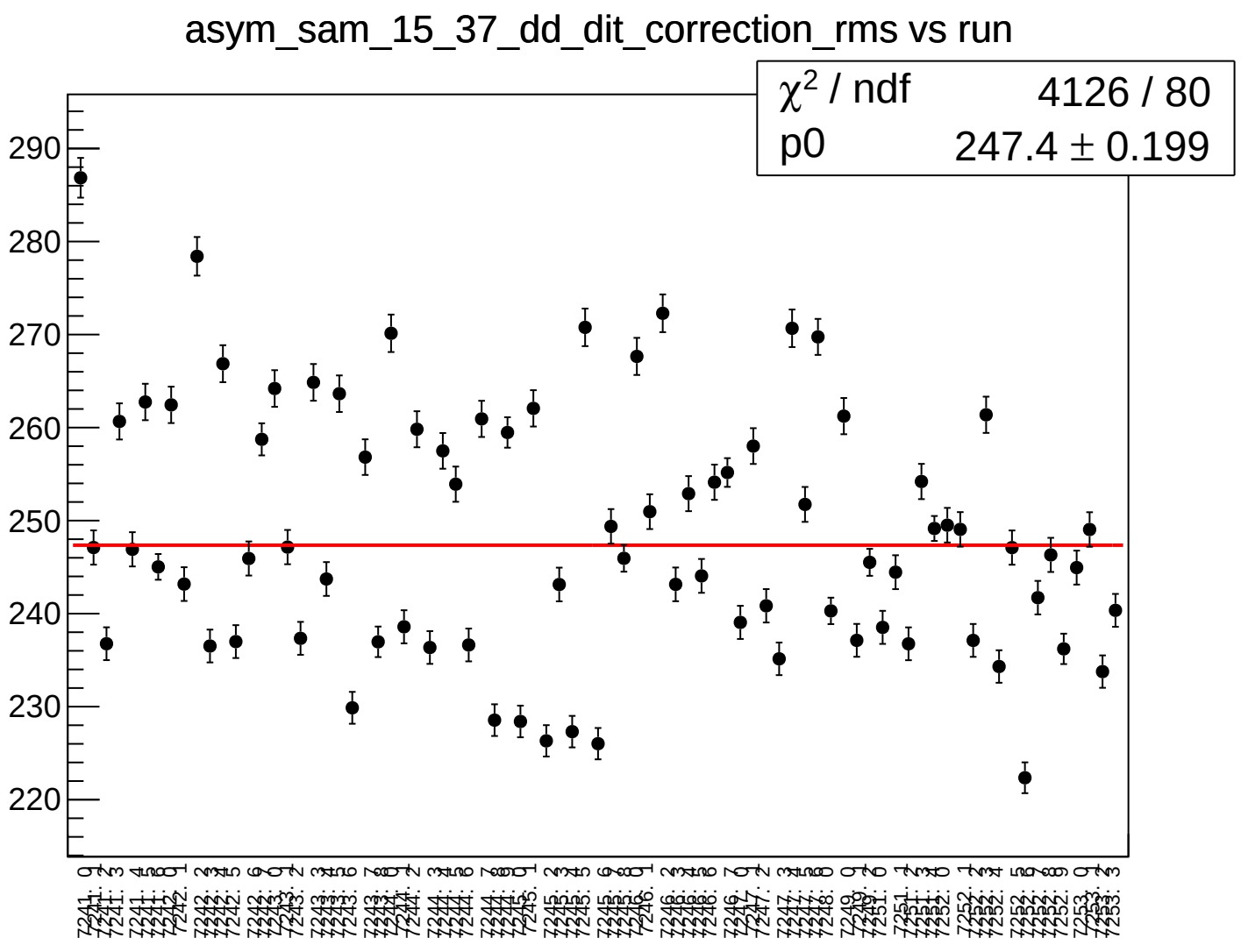

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 71.78 / 80
p0 19.56 ± 43.75
1000
500
0
−500
−1000
−1500
pull
Entries 81
Mean −29.26
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

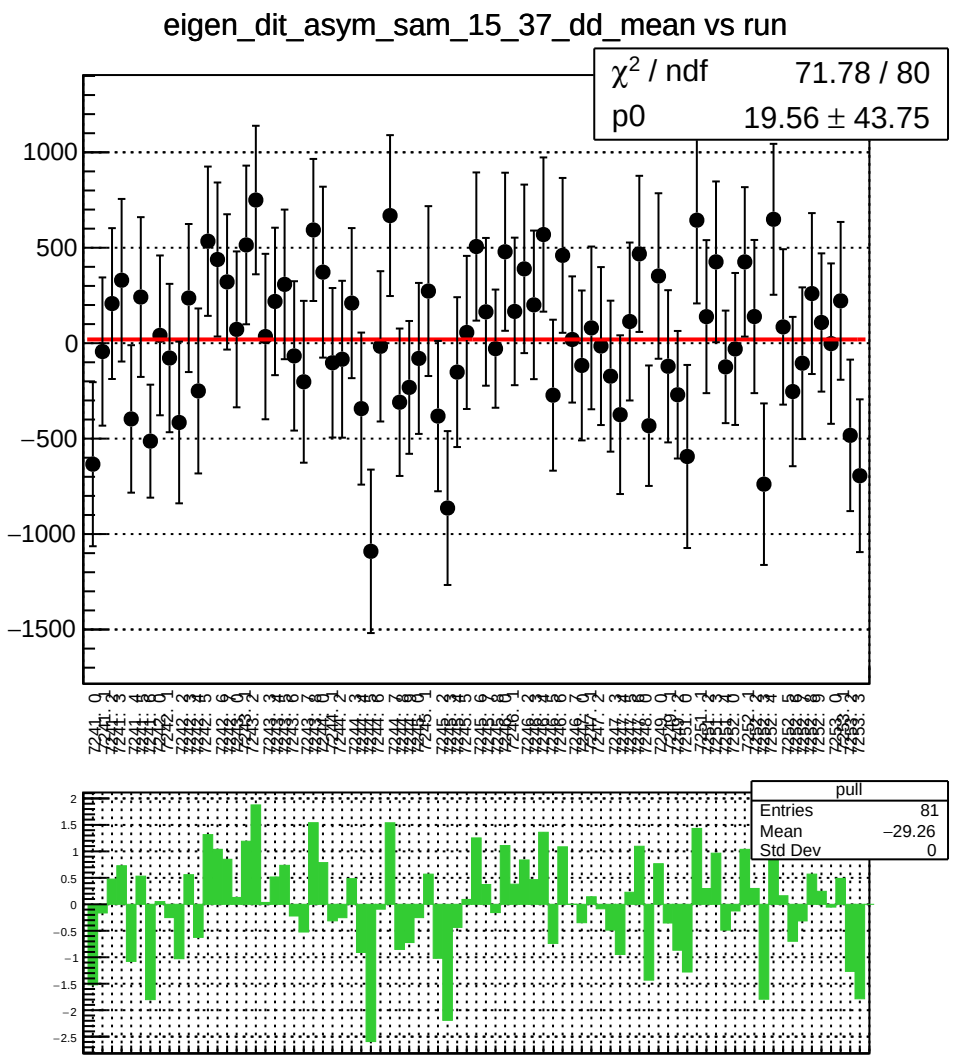

pull1D
Entries 81
Mean 0.0148
Std Dev 0.9412
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

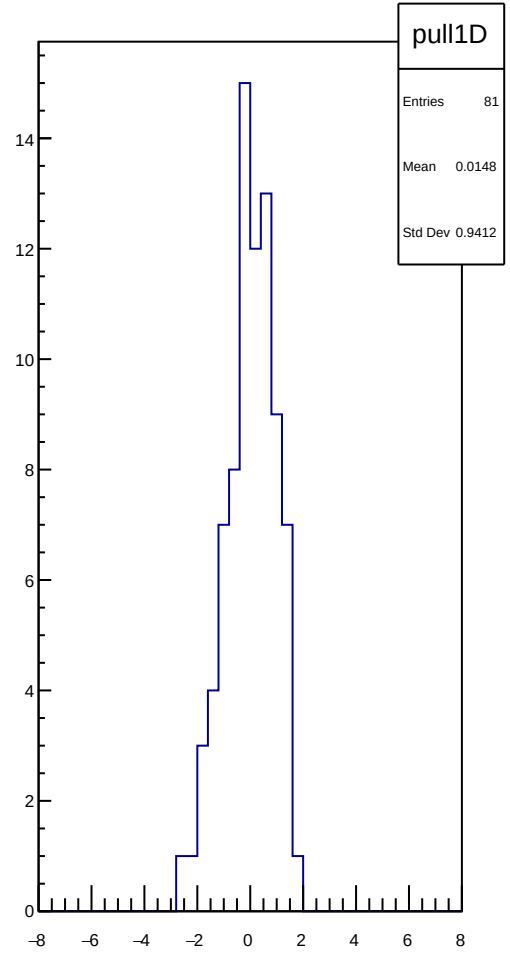

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 2606 / 80
p0 38.47 ± 0.03093
46
44
42
40
38
36

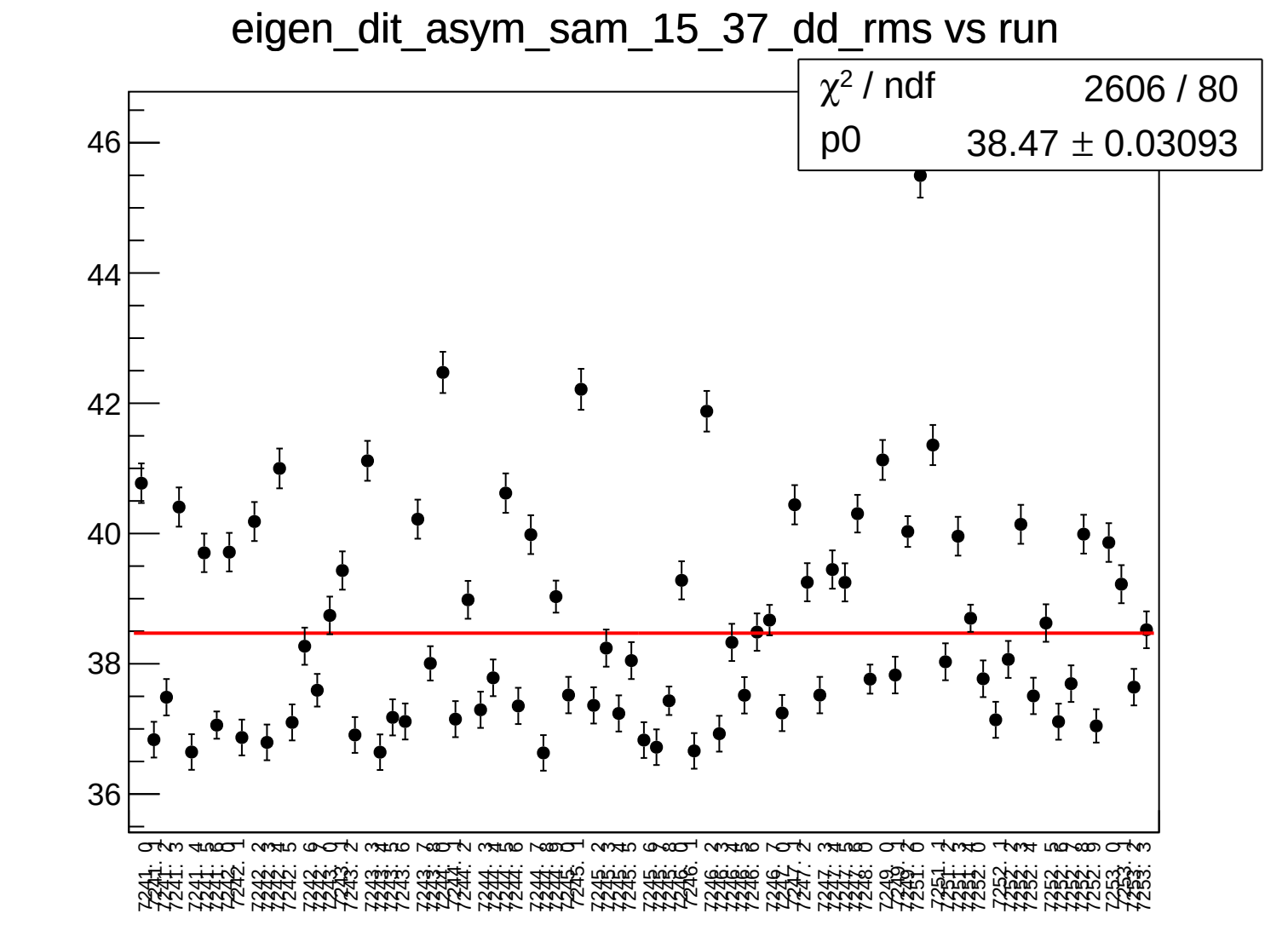

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 80.05 / 80
p0 277.1 ± 281.4
pull
Entries 81
Mean 1749
Std Dev 0

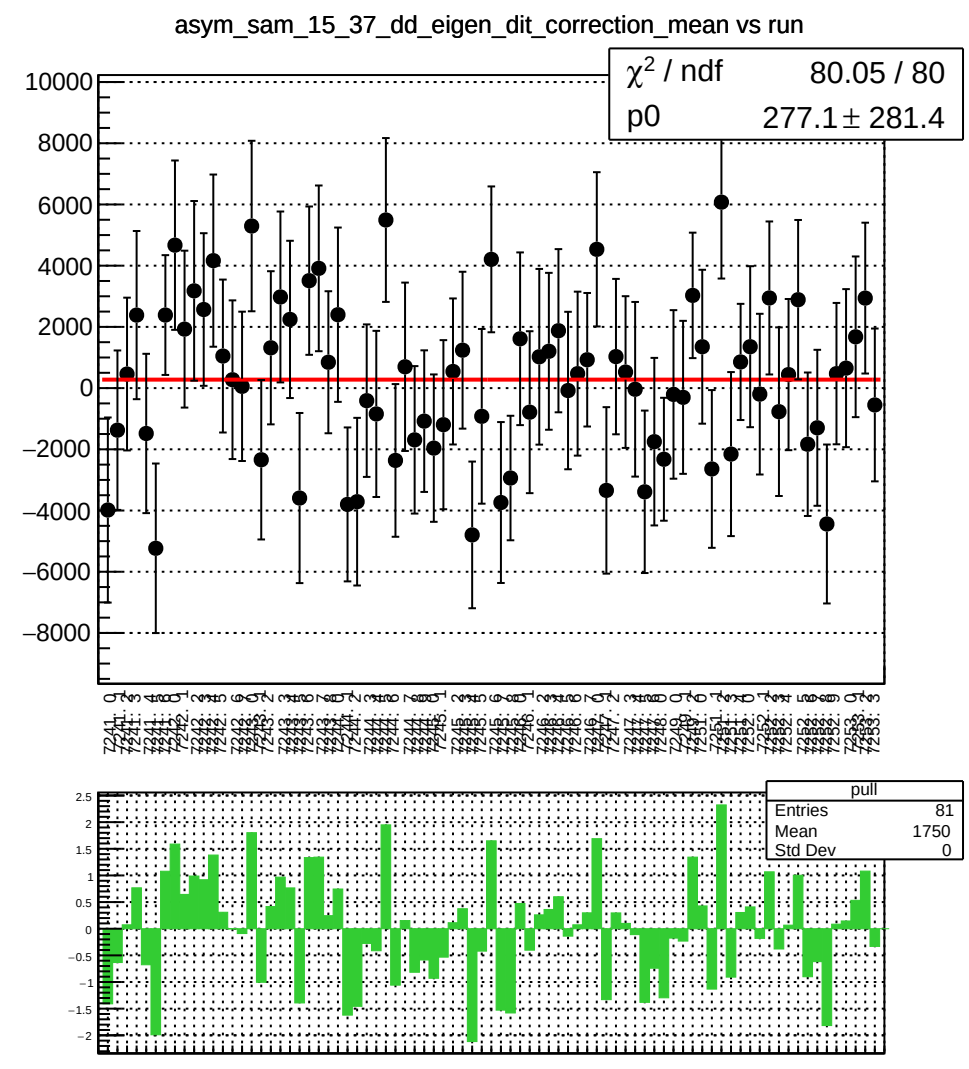

pull1D
Entries 81
Mean −0.0008086
Std Dev 0.9941

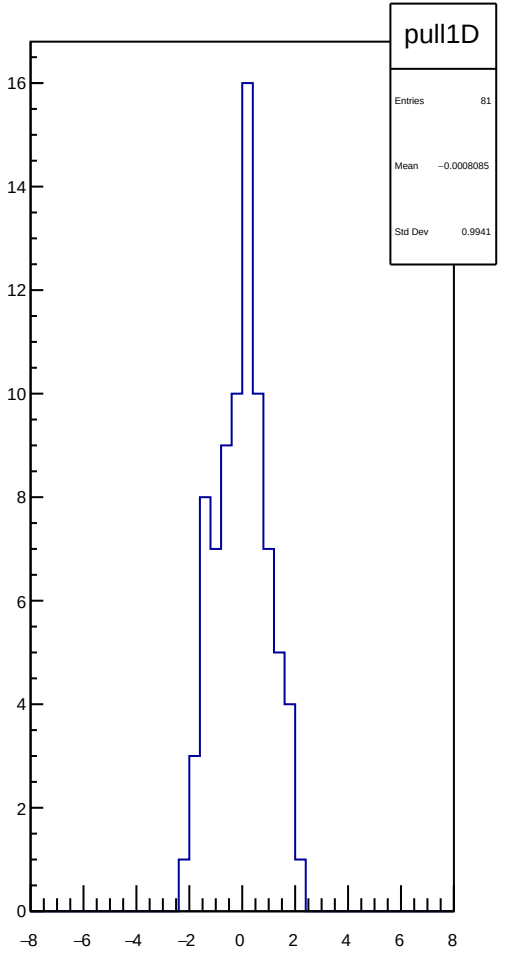

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 4126 / 80
p0 247.4 ± 0.199
290
280
270
260
250
240
230
220

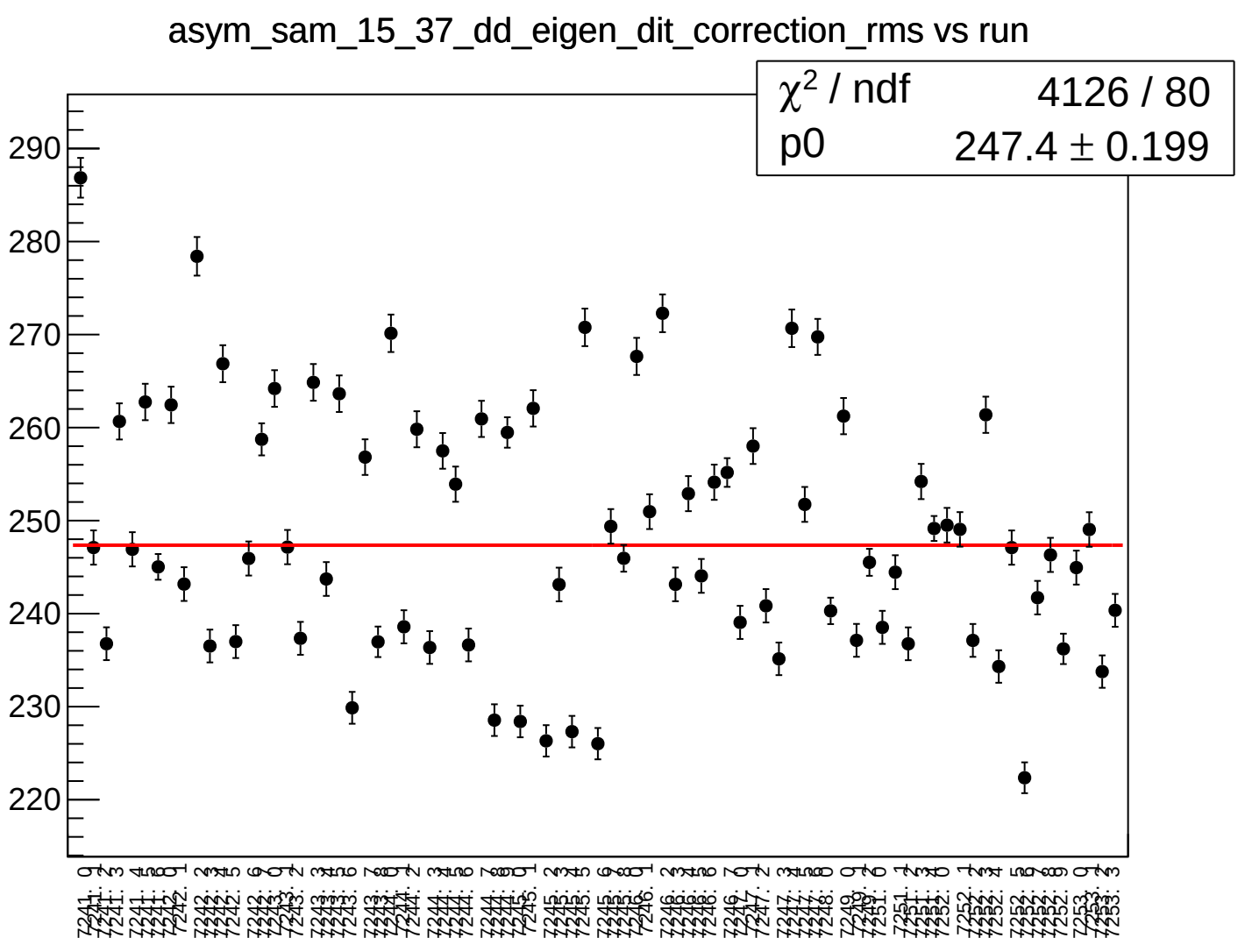

eigen_dit_asym_sam_15_37_dd_mean vs run
χ^2 / ndf 71.78 / 80
p0 19.56 ± 43.75
1000
500
0
−500
−1000
−1500
pull
Entries 81
Mean −29.26
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

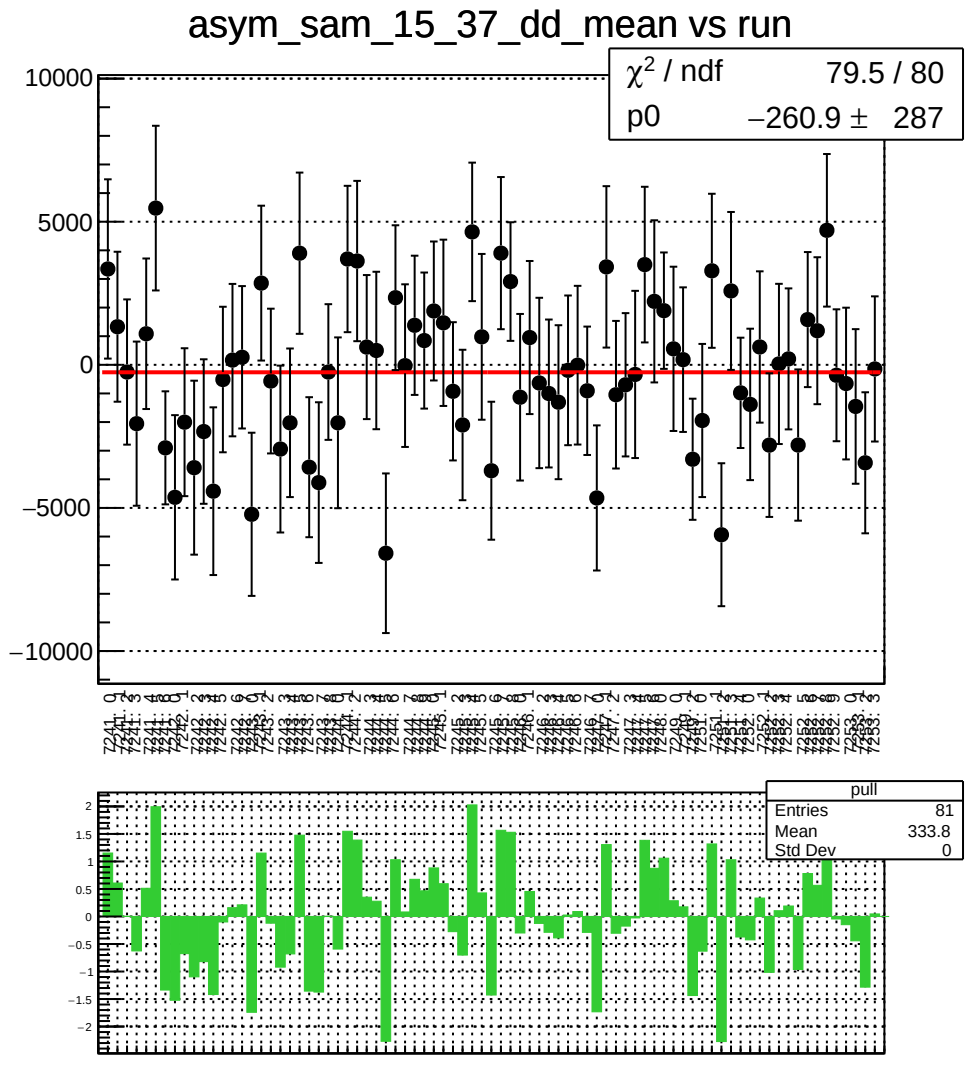

pull1D
Entries 81
Mean 0.0148
Std Dev 0.9412
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

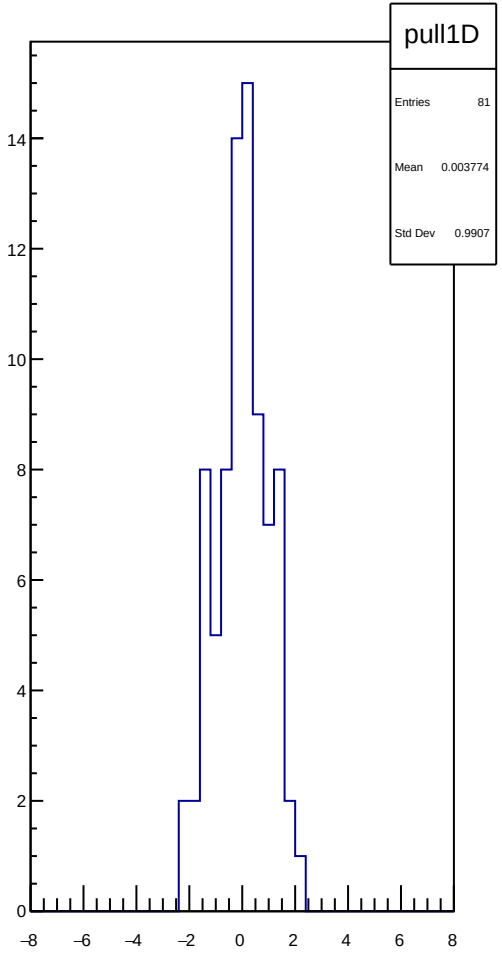

eigen_dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 2606 / 80
p0 38.47 ± 0.03093
46
44
42
40
38
36

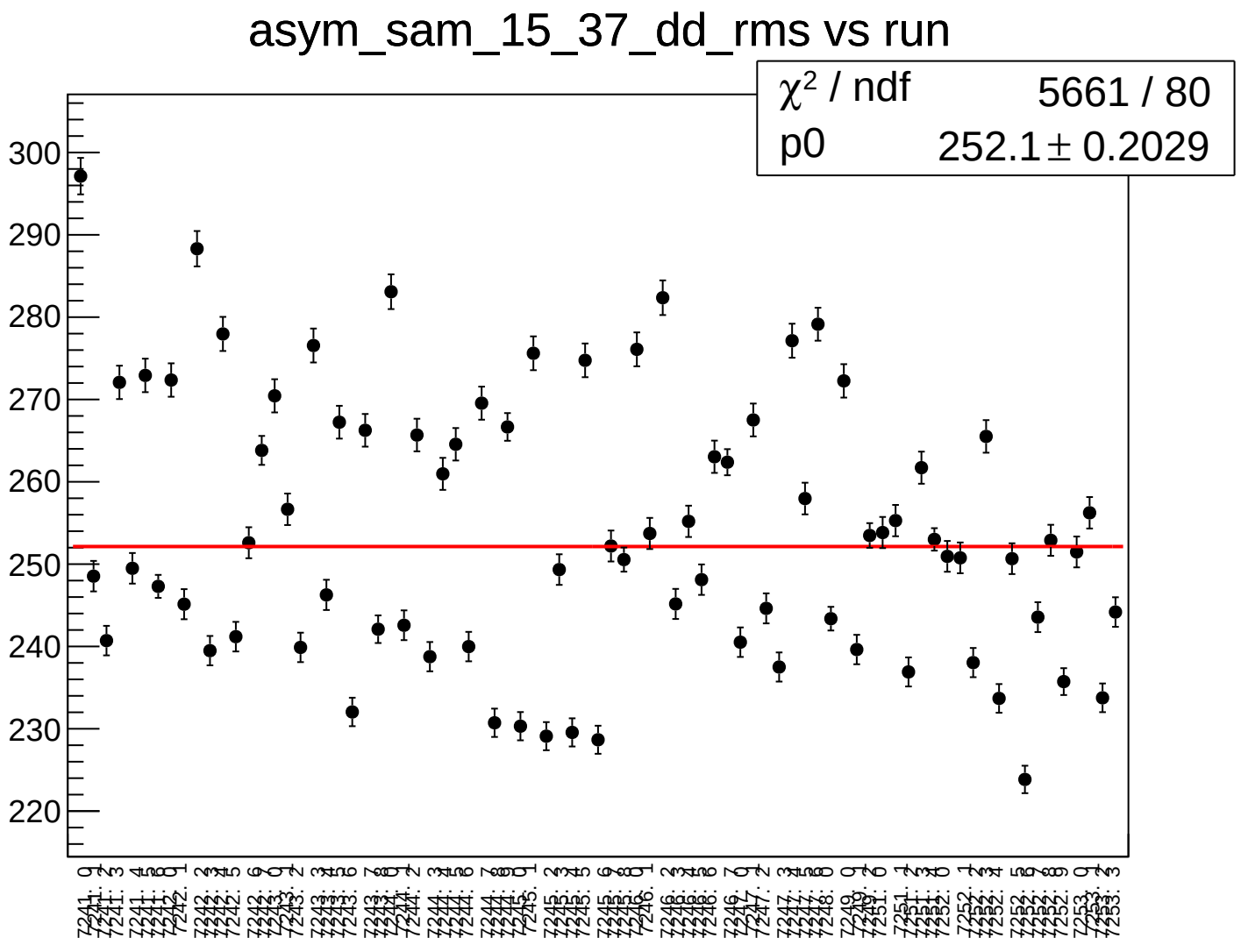

asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 80.05 / 80
p0 277.1 ± 281.4
pull
Entries 81
Mean 1750
Std Dev 0

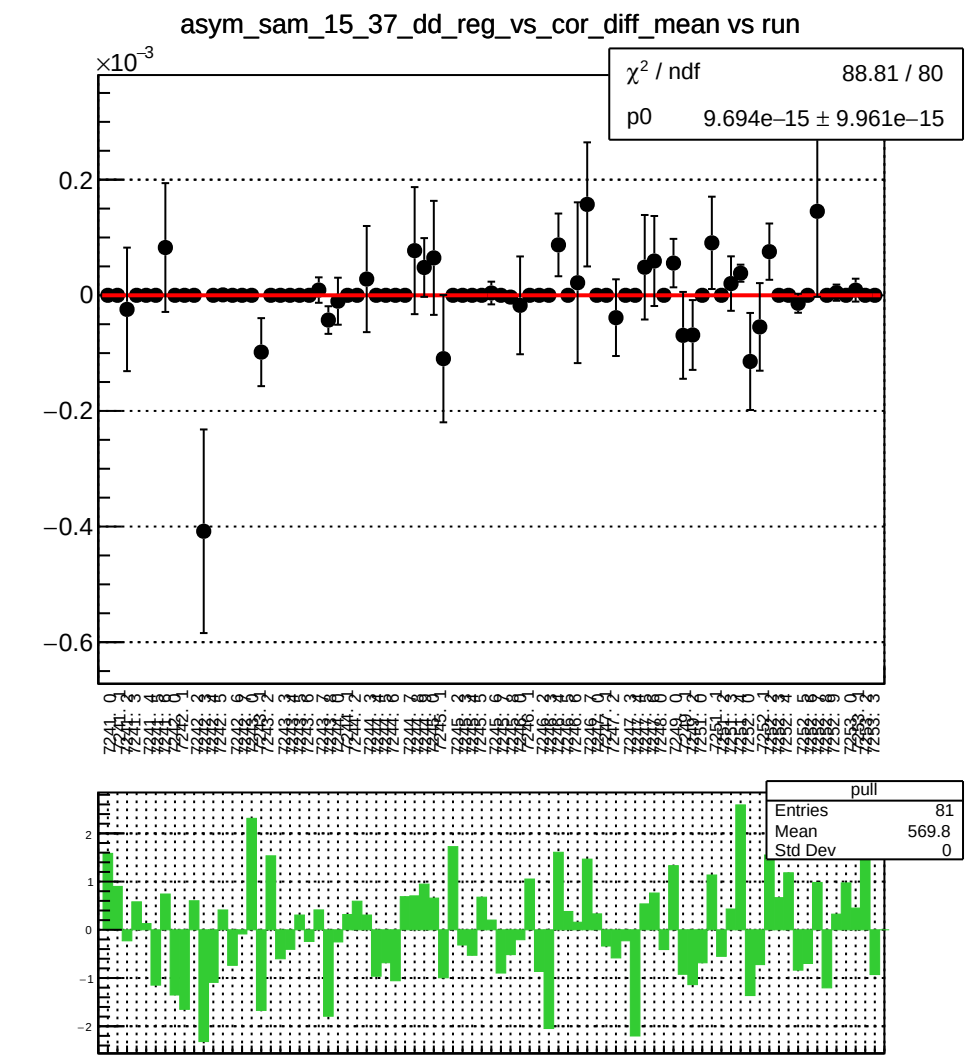

pull1D
Entries 81
Mean −0.0008085
Std Dev 0.9941

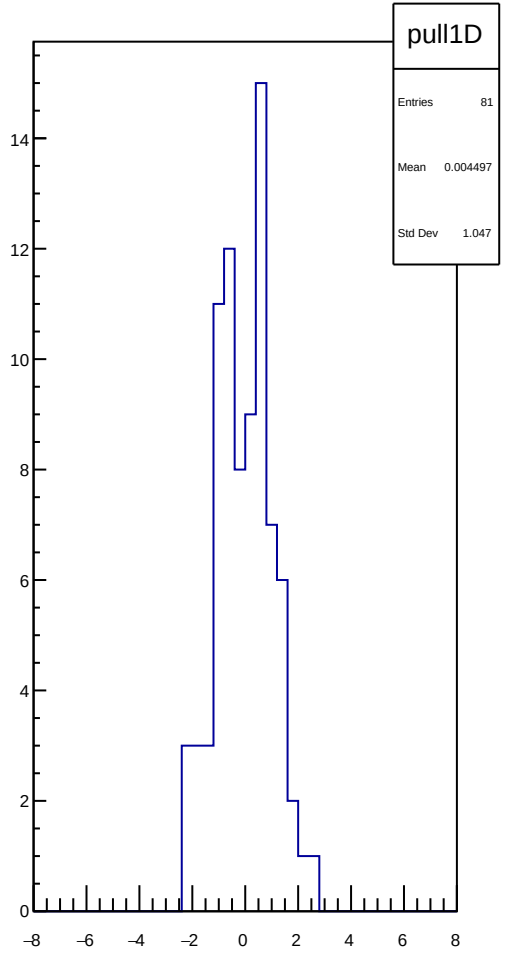

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 4126 / 80
p0 247.4 ± 0.199
290
280
270
260
250
240
230
220

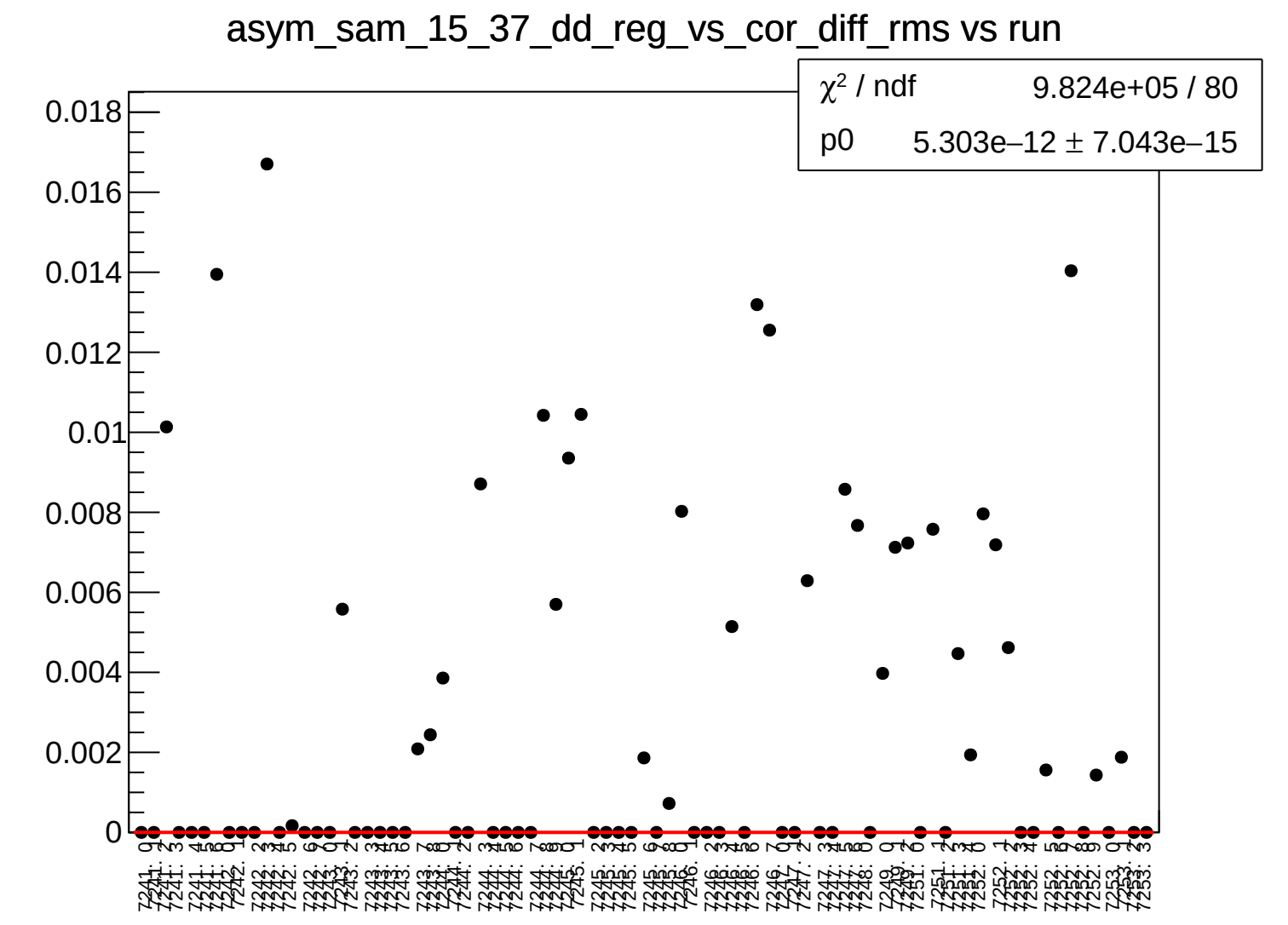

asym_sam_15_37_dd_mean vs run
χ² / ndf 79.5 / 80
p0 −260.9 ± 287
pull
Entries 81
Mean 333.8
Std Dev 0

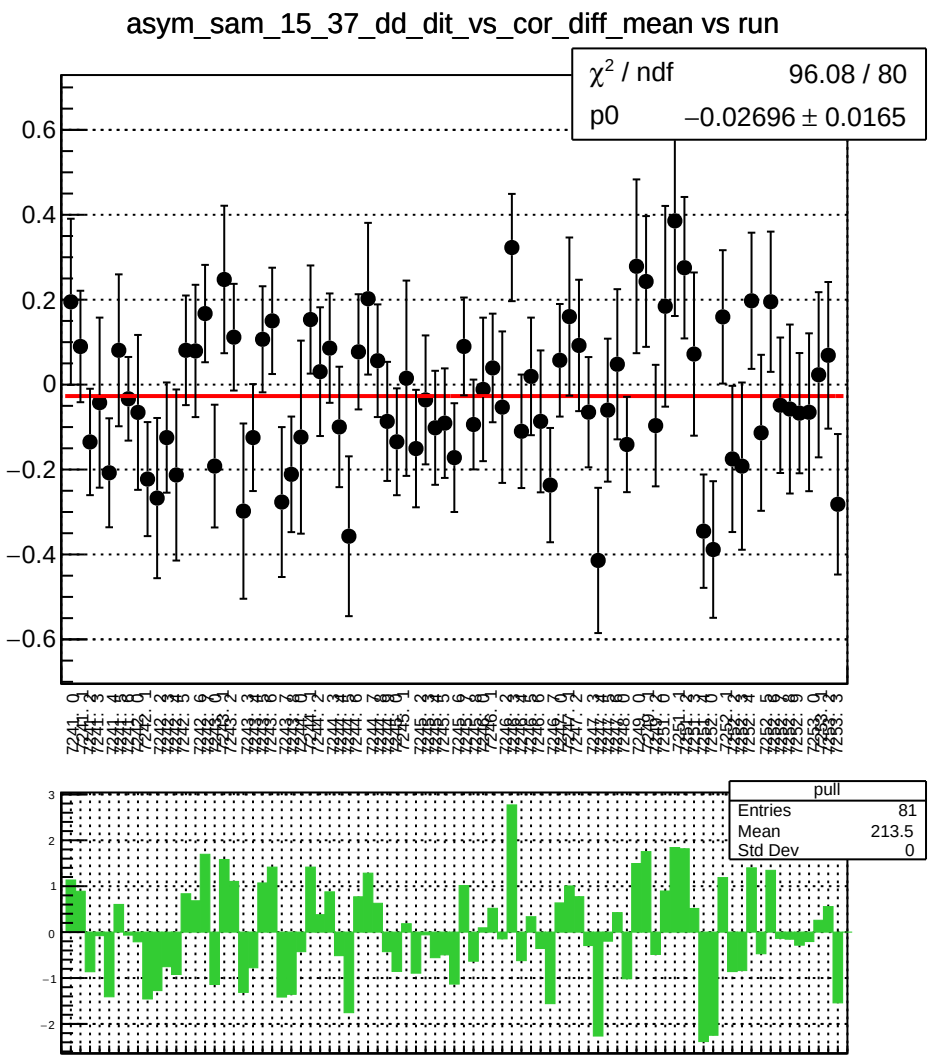

pull1D
Entries 81
Mean 0.003774
Std Dev 0.9907

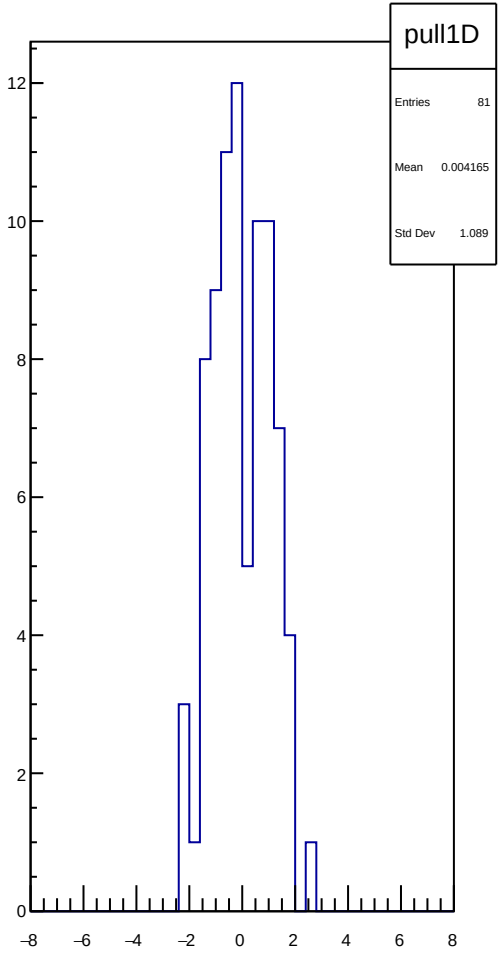

asym_sam_15_37_dd_rms vs run
χ² / ndf 5661 / 80
p0 252.1 ± 0.2029
300
290
280
270
260
250
240
230
220

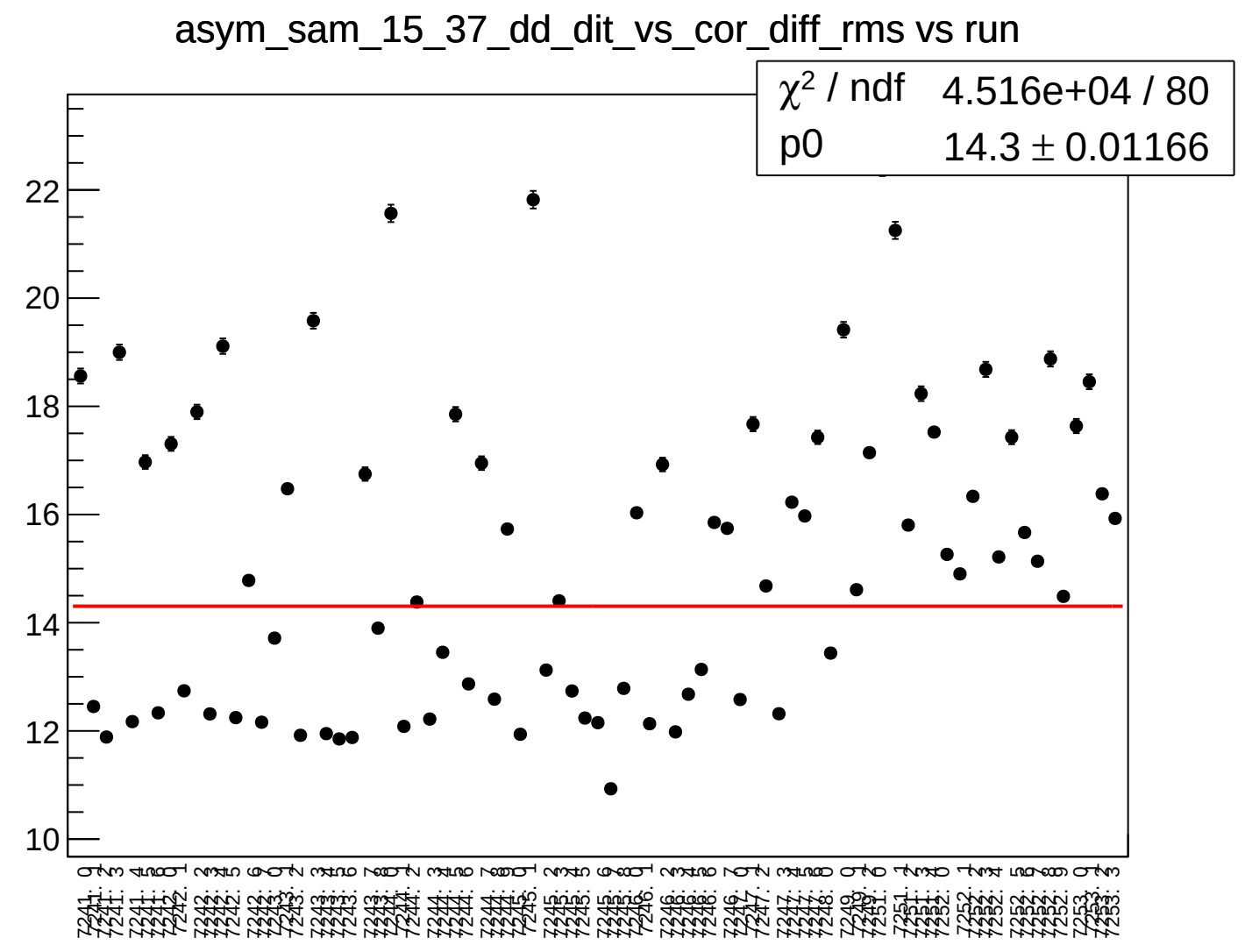

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 88.81 / 80
p0 9.694e−15 ± 9.961e−15
0.2
0
−0.2
−0.4
−0.6
pull
Entries 81
Mean 569.8
Std Dev 0
2
1
0
−1
−2

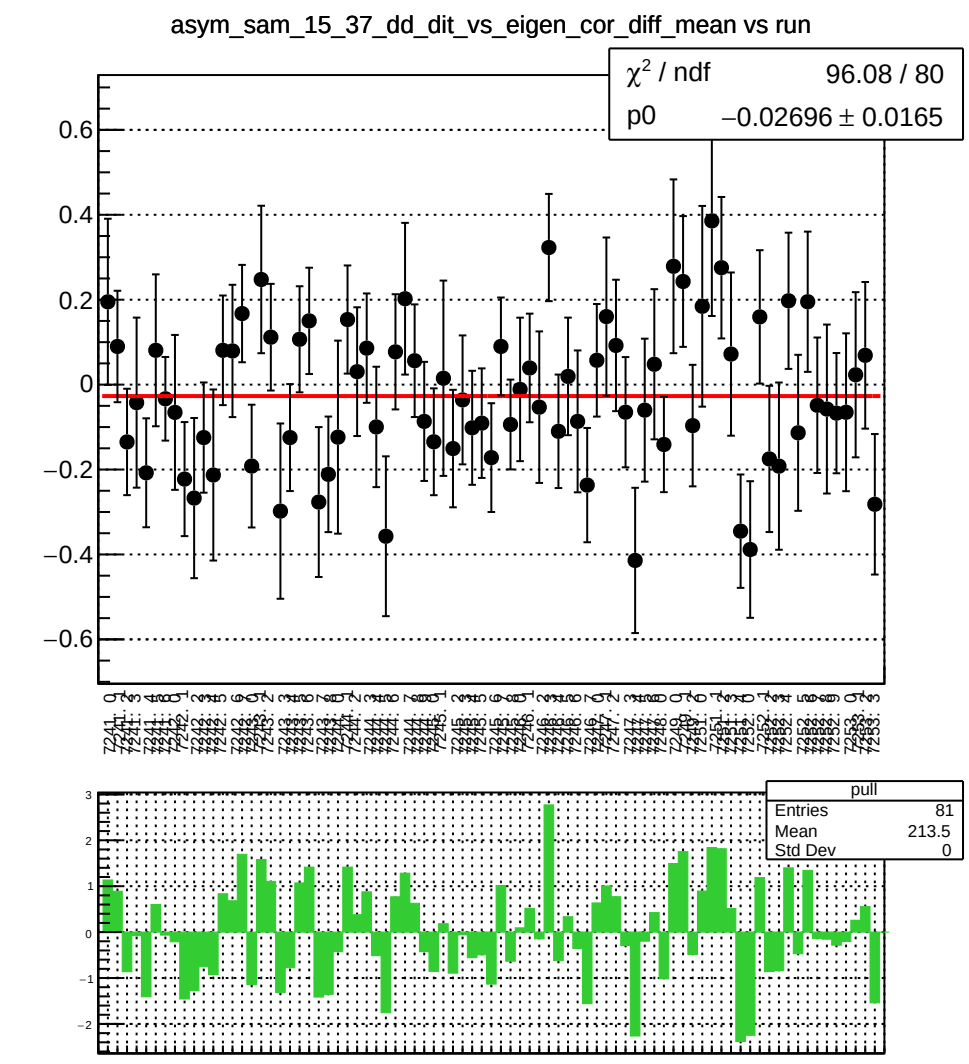

pull1D
Entries 81
Mean 0.004497
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

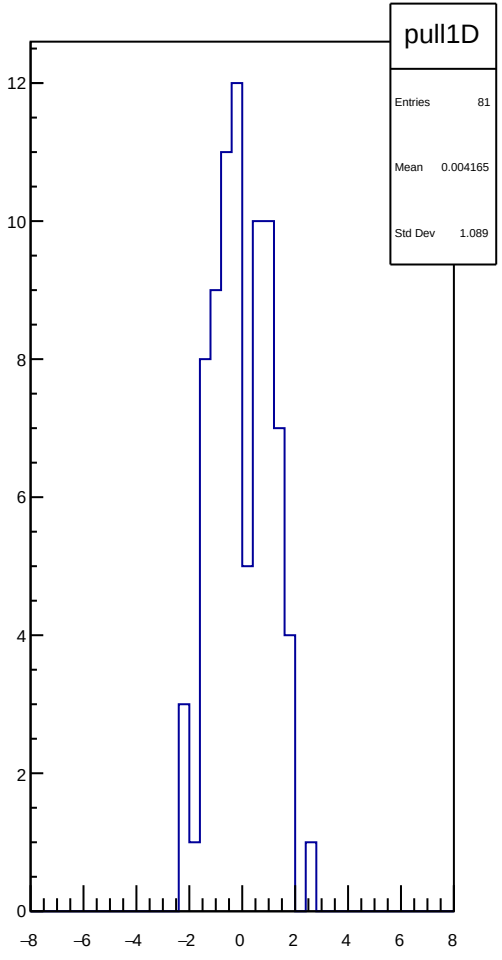

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.824e+05 / 80
p0 5.303e−12 ± 7.043e−15
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0

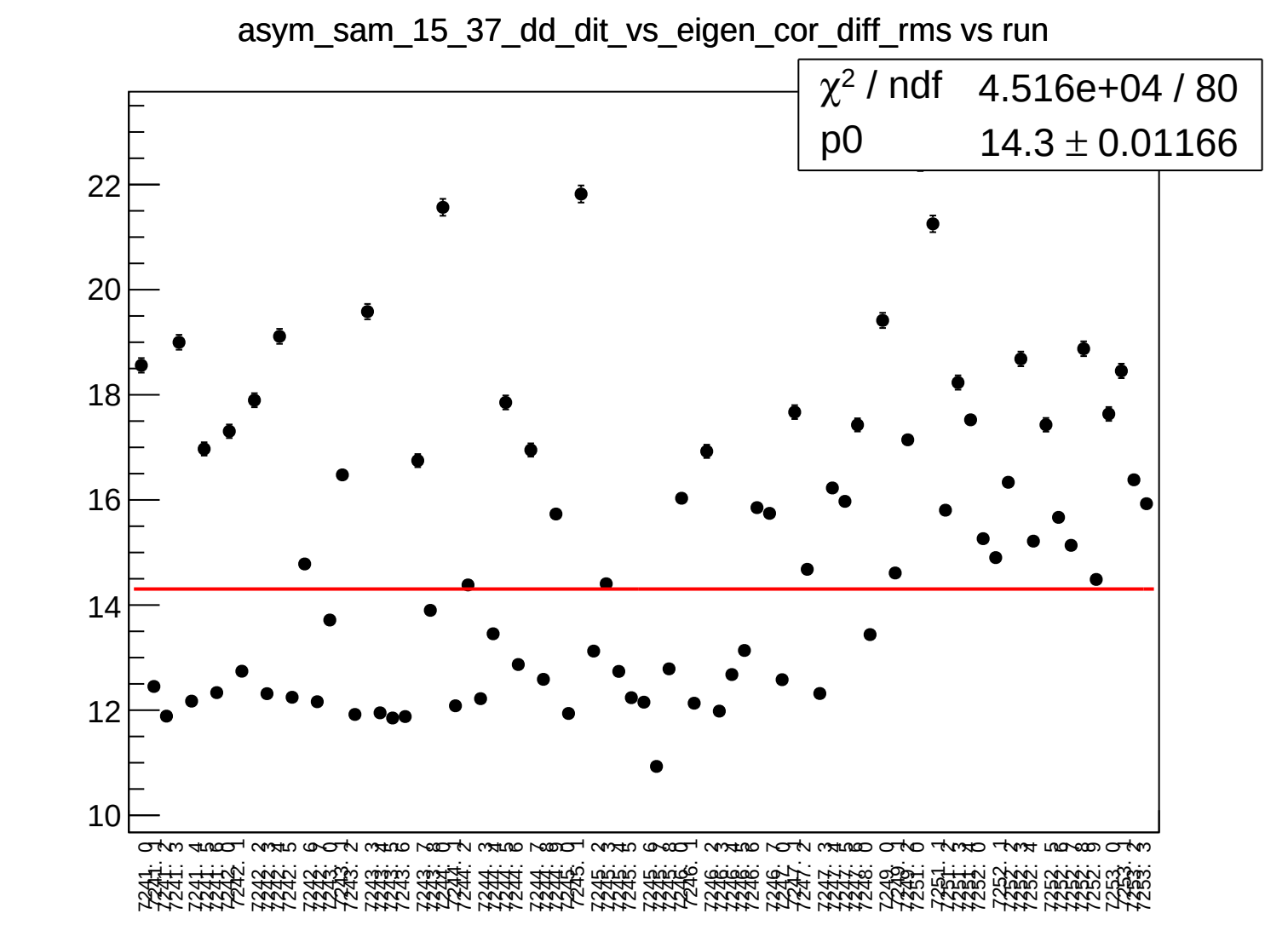

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 96.08 / 80
p0 −0.02696 ± 0.0165
pull
Entries 81
Mean 213.5
Std Dev 0

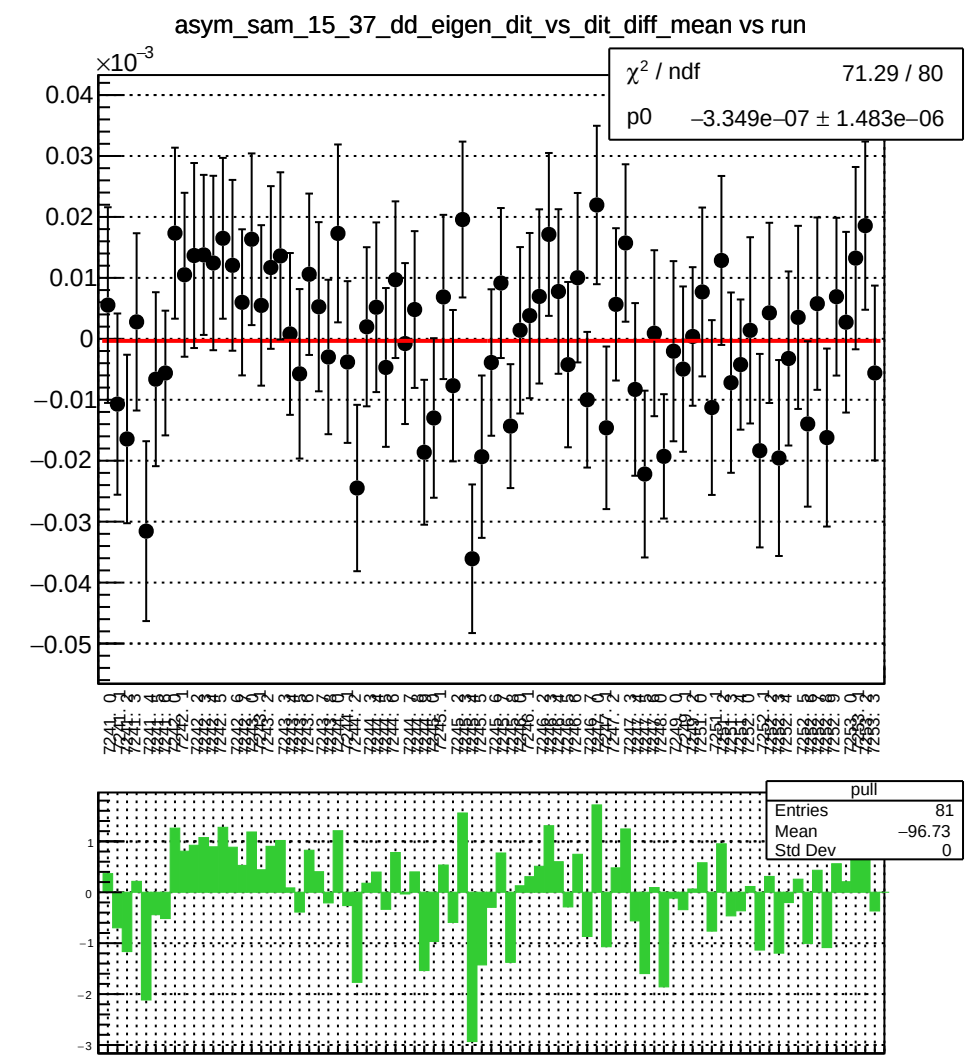

pull1D
Entries 81
Mean 0.004165
Std Dev 1.089

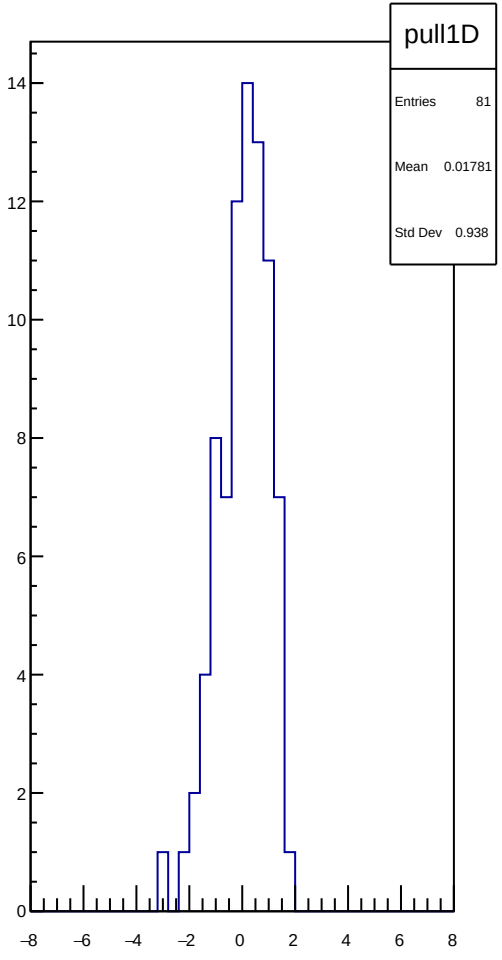

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.516e+04 / 80
p0 14.3 ± 0.01166
22
20
18
16
14
12
10

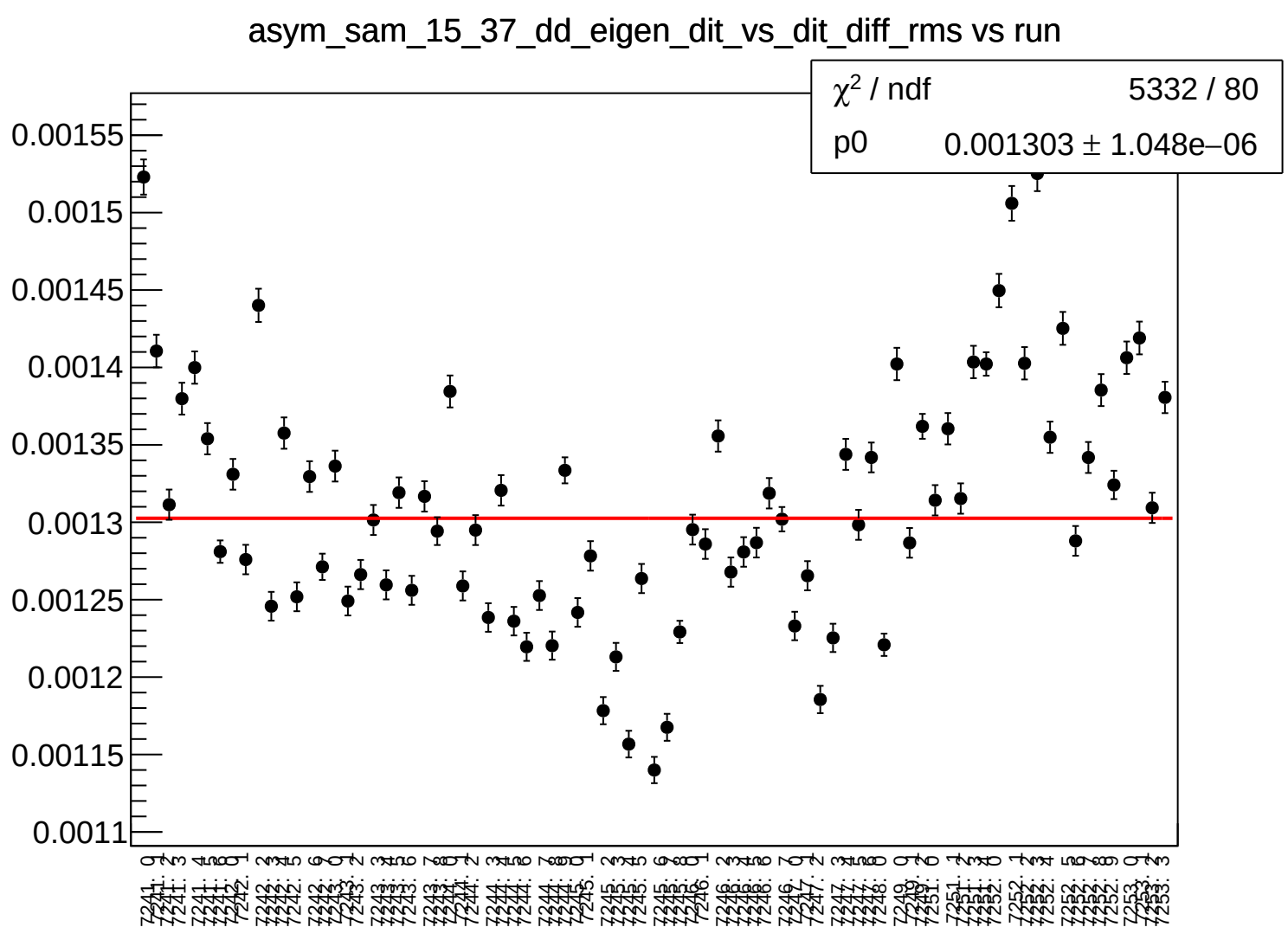

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.08 / 80
p0 −0.02696 ± 0.0165
pull
Entries 81
Mean 213.5
Std Dev 0

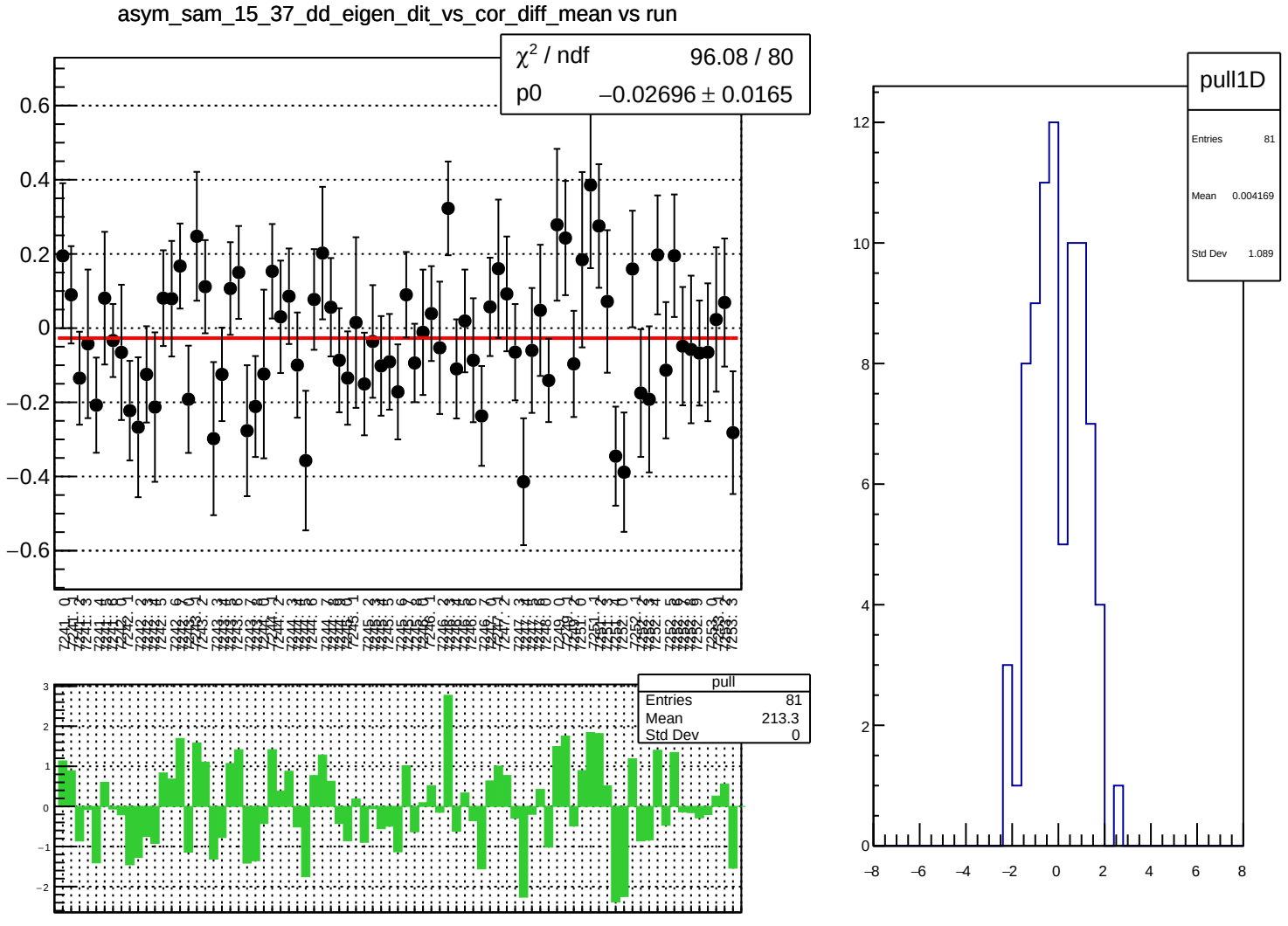

pull1D
Entries 81
Mean 0.004165
Std Dev 1.089

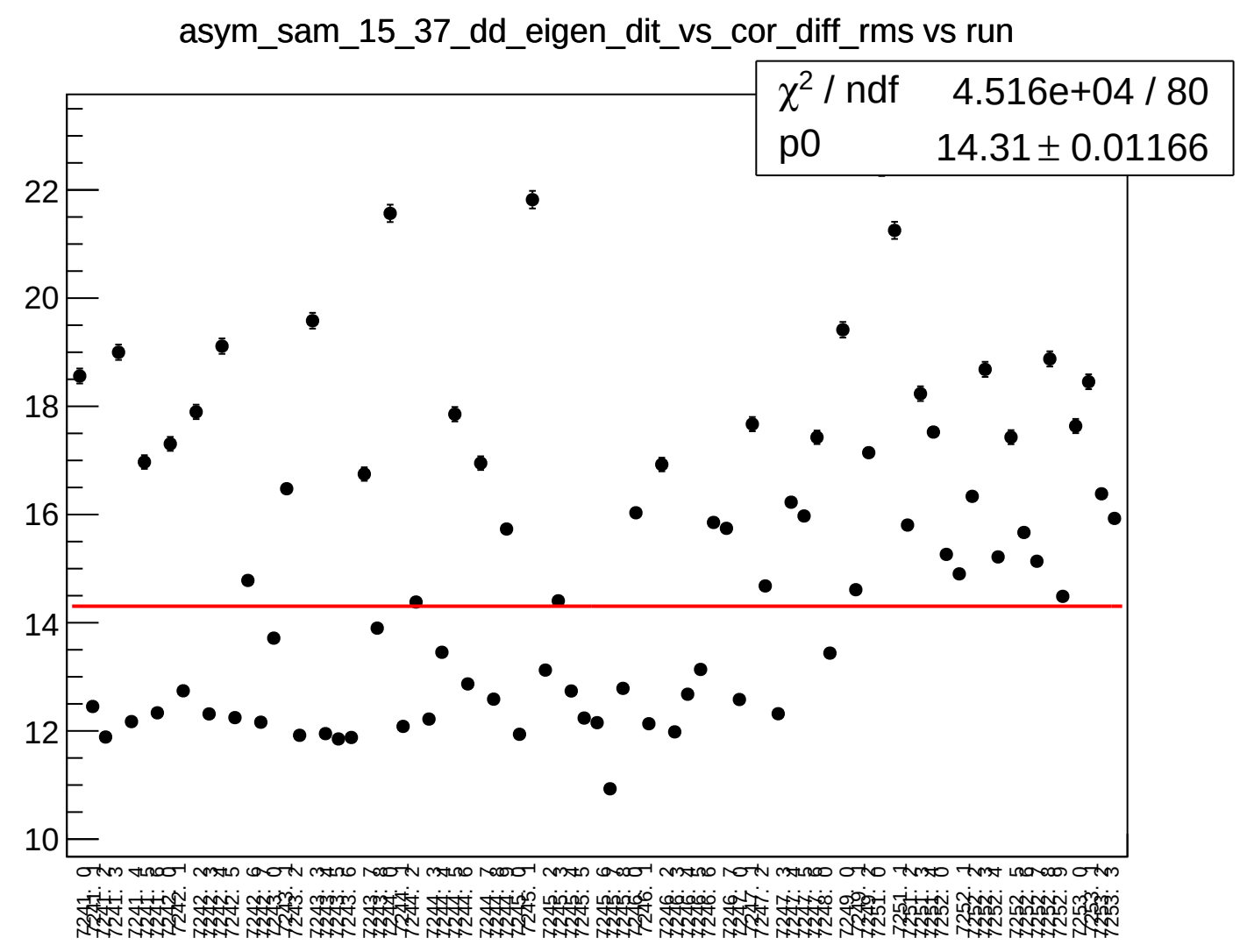

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.516e+04 / 80
p0 14.3 ± 0.01166
22
20
18
16
14
12
10

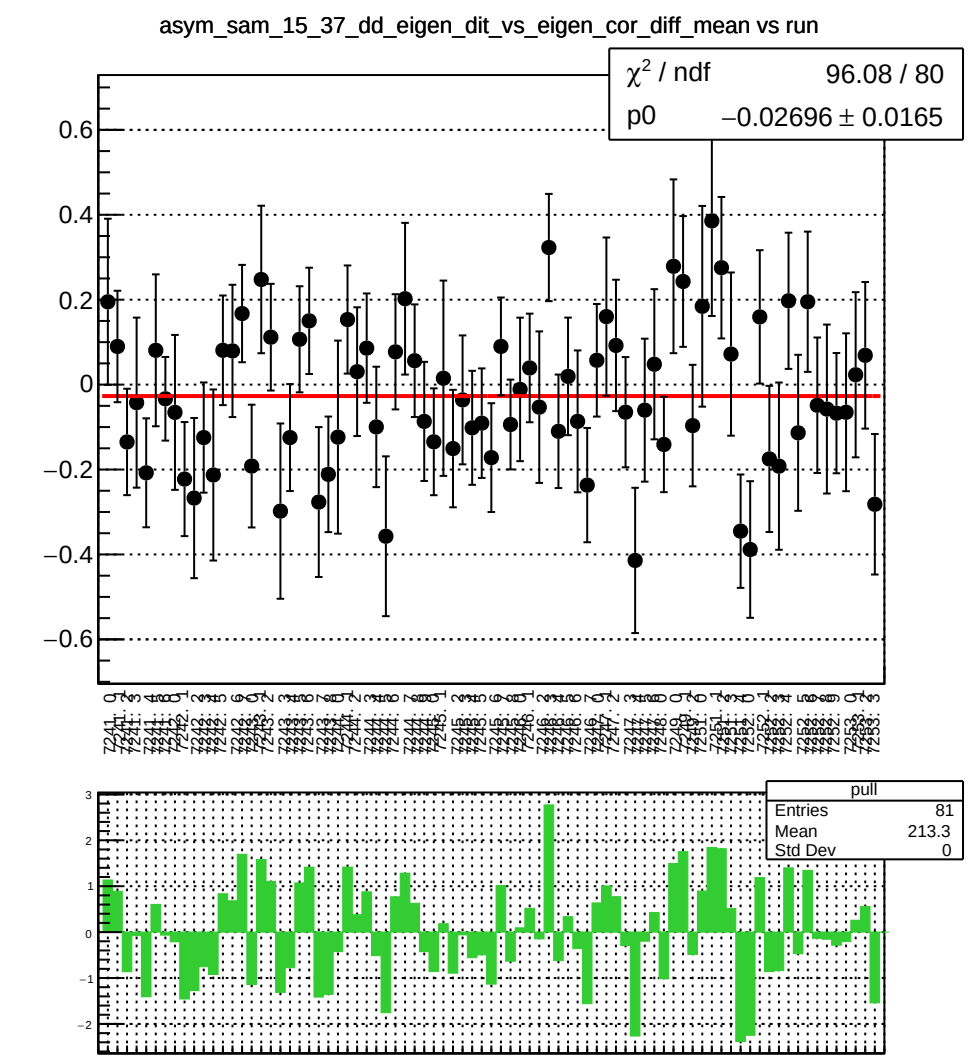

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.29 / 80
p0 −3.349e−07 ± 1.483e−06
pull
Entries 81
Mean −96.73
Std Dev 0

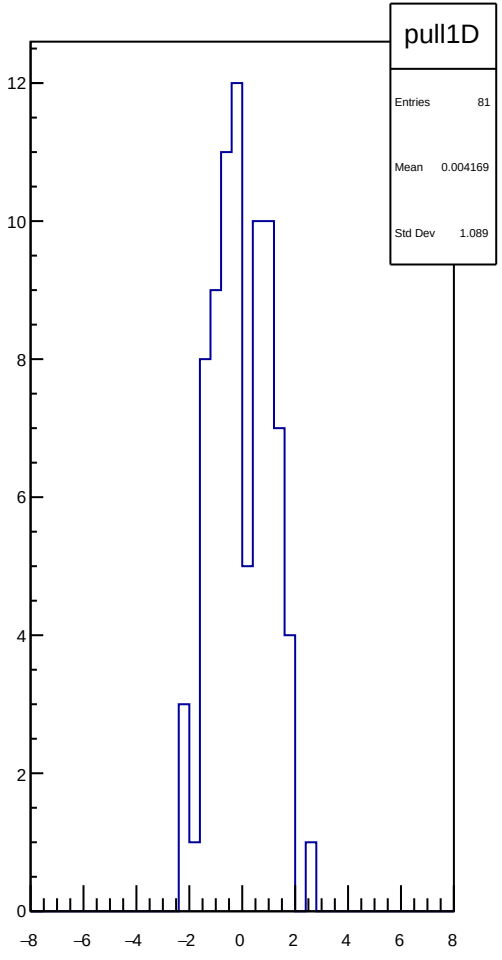

pull1D
Entries 81
Mean 0.01781
Std Dev 0.938

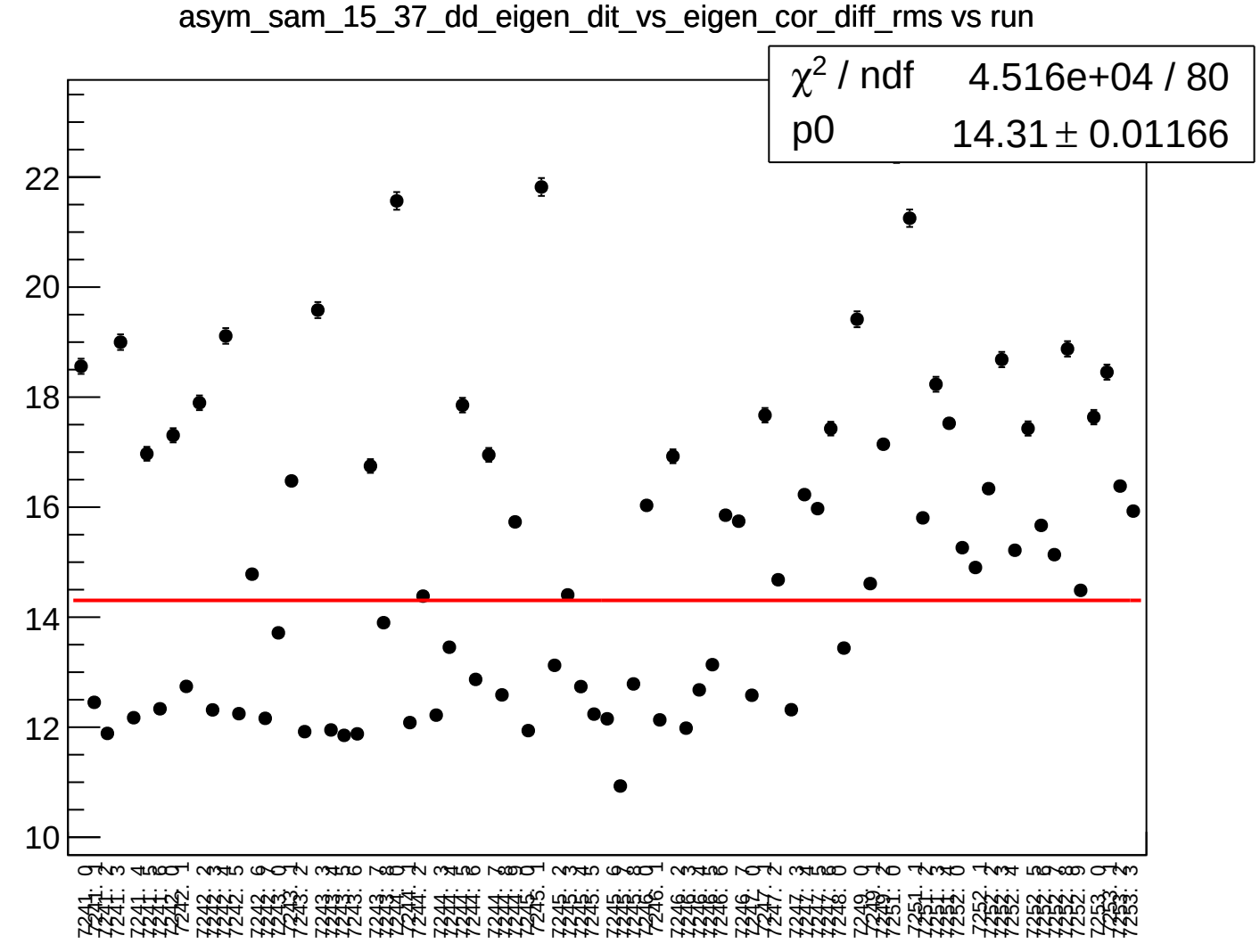

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5332 / 80
p0 0.001303 ± 1.048e−06
0.00155
0.0015
0.00145
0.0014
0.00135
0.0013
0.00125
0.0012
0.00115
0.0011

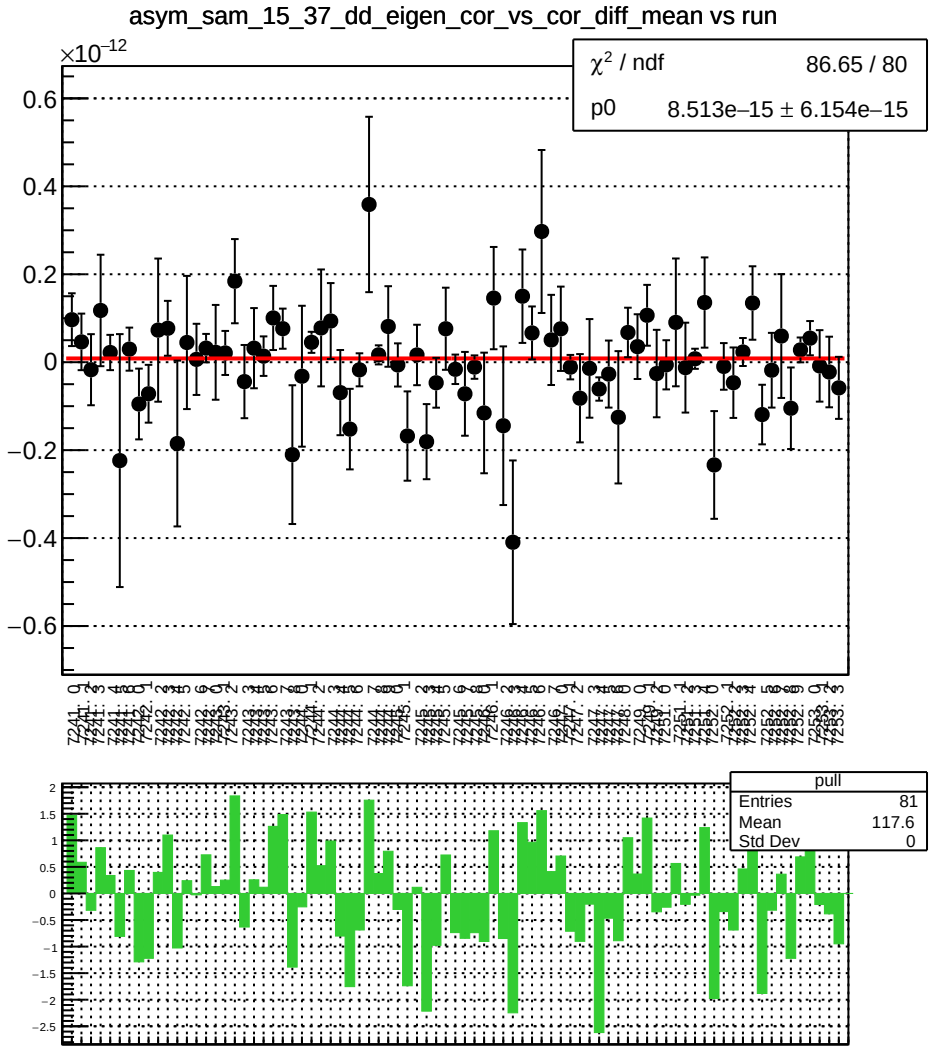

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.08 / 80
p0 −0.02696 ± 0.0165
pull
Entries 81
Mean 213.3
Std Dev 0
pull1D
Entries 81
Mean 0.004169
Std Dev 1.089

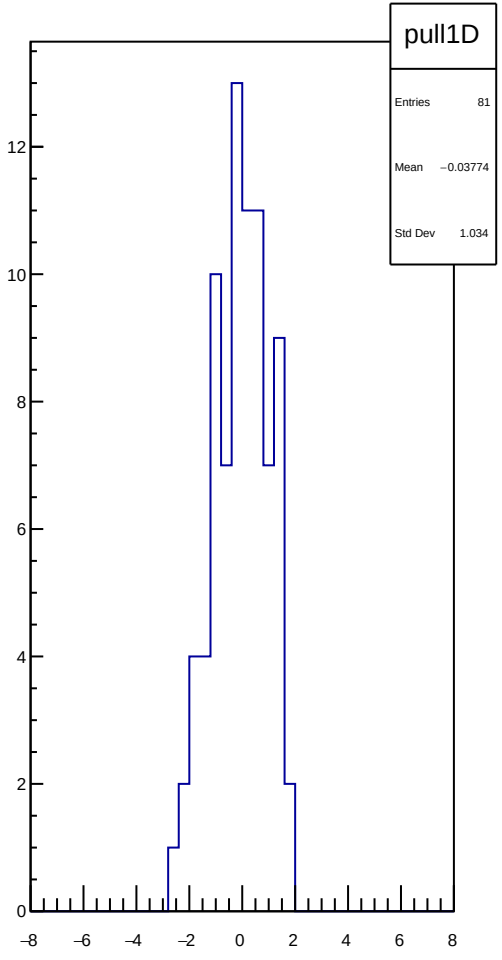

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.516e+04 / 80
p0 14.31 ± 0.01166
22
20
18
16
14
12
10

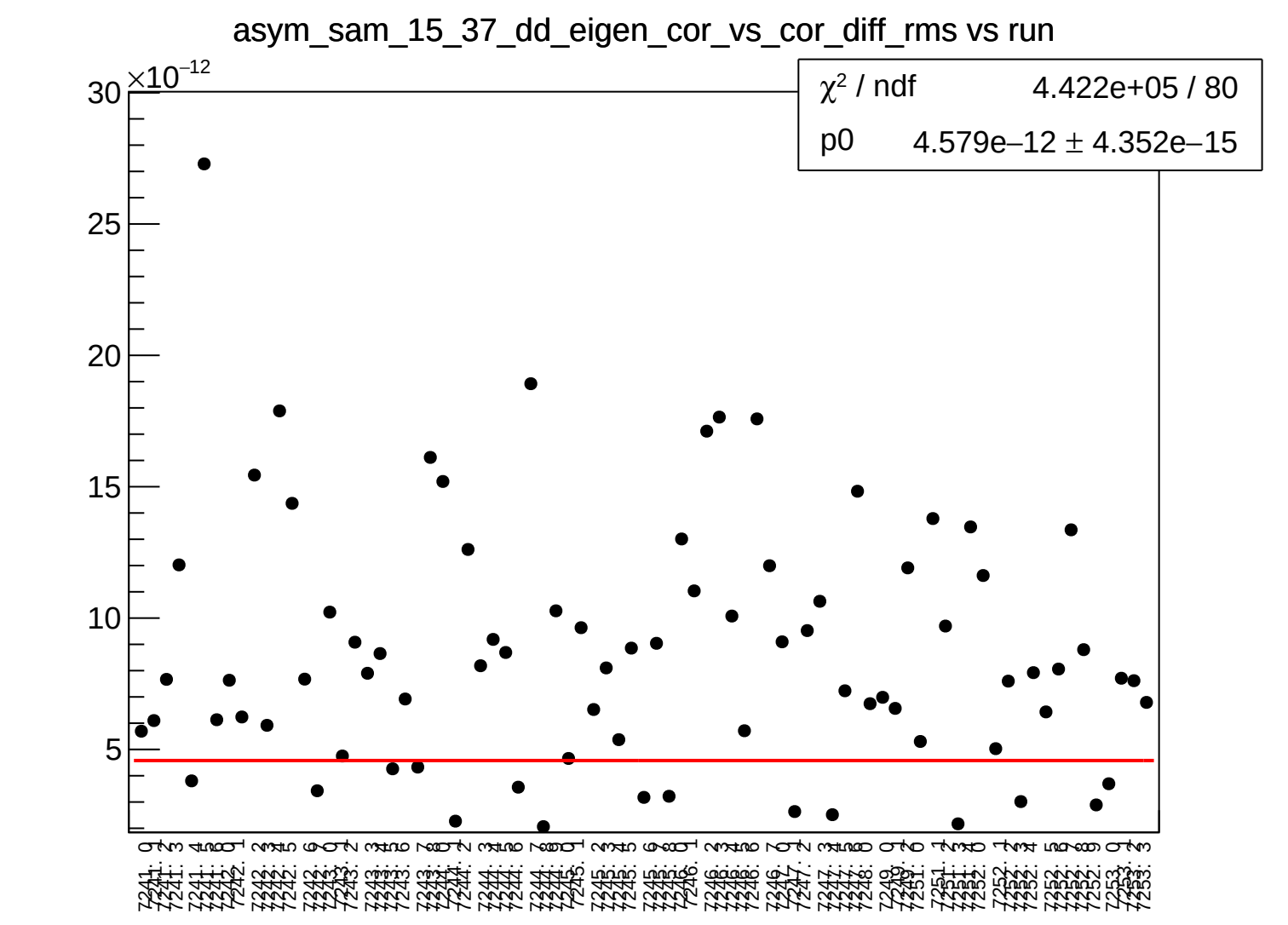

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.08 / 80
p0 −0.02696 ± 0.0165
pull
Entries 81
Mean 213.3
Std Dev 0

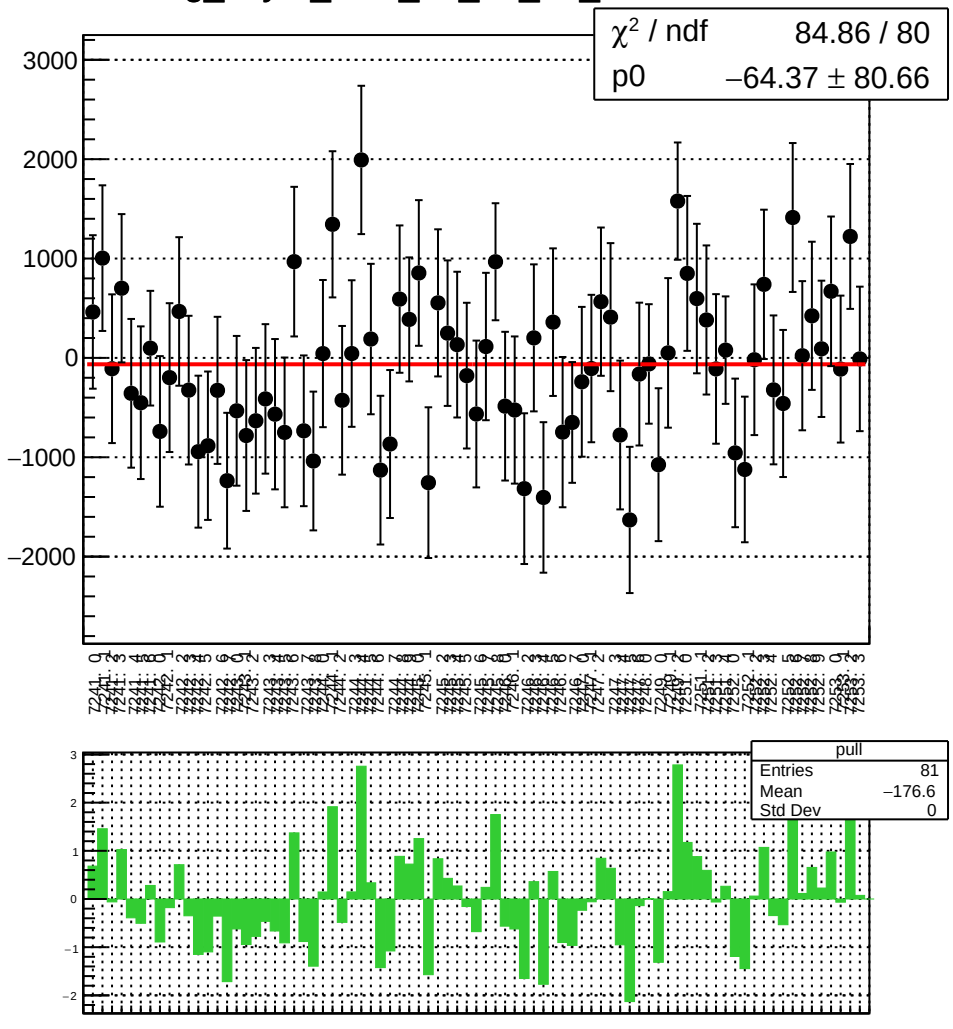

pull1D
Entries 81
Mean 0.004169
Std Dev 1.089

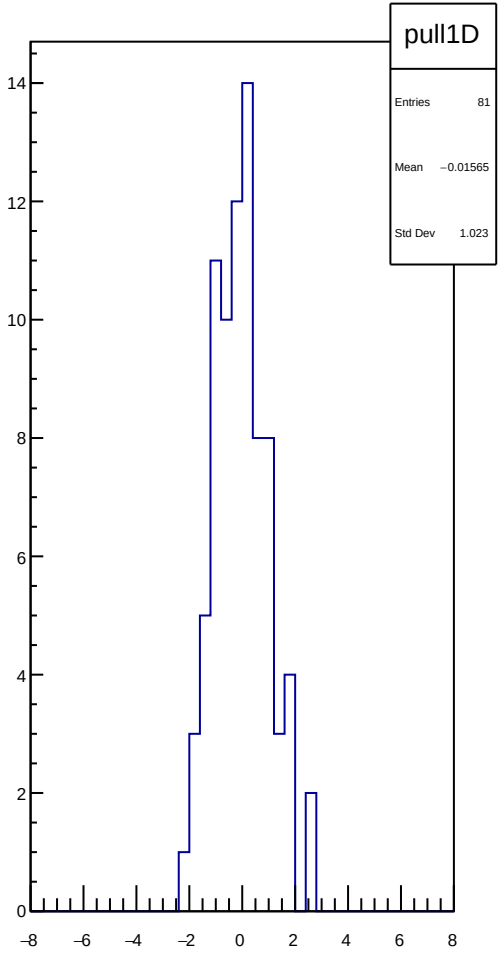

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.516e+04 / 80
p0 14.31 ± 0.01166
22
20
18
16
14
12
10

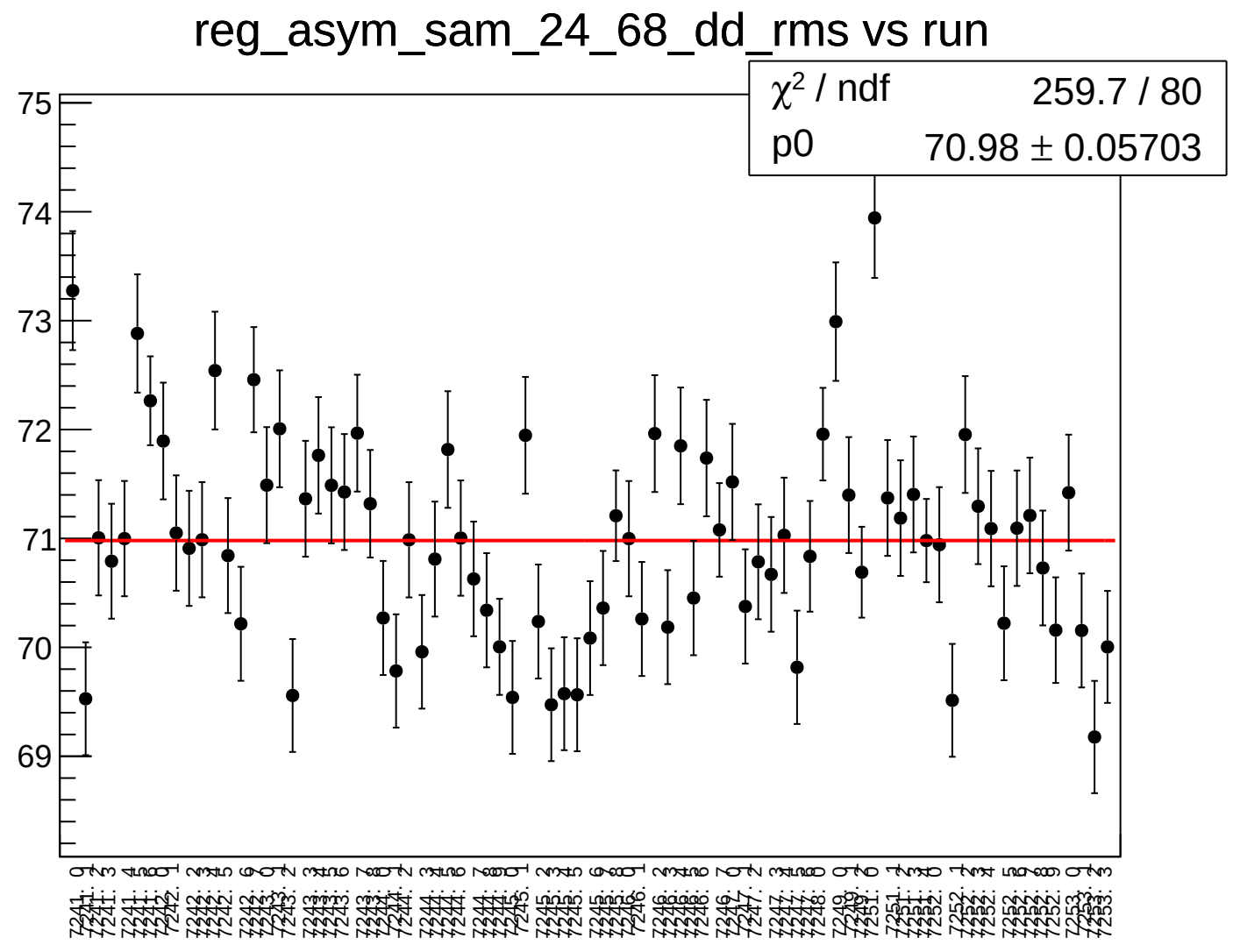

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.65 / 80
p0 8.513e−15 ± 6.154e−15
pull
Entries 81
Mean 117.6
Std Dev 0

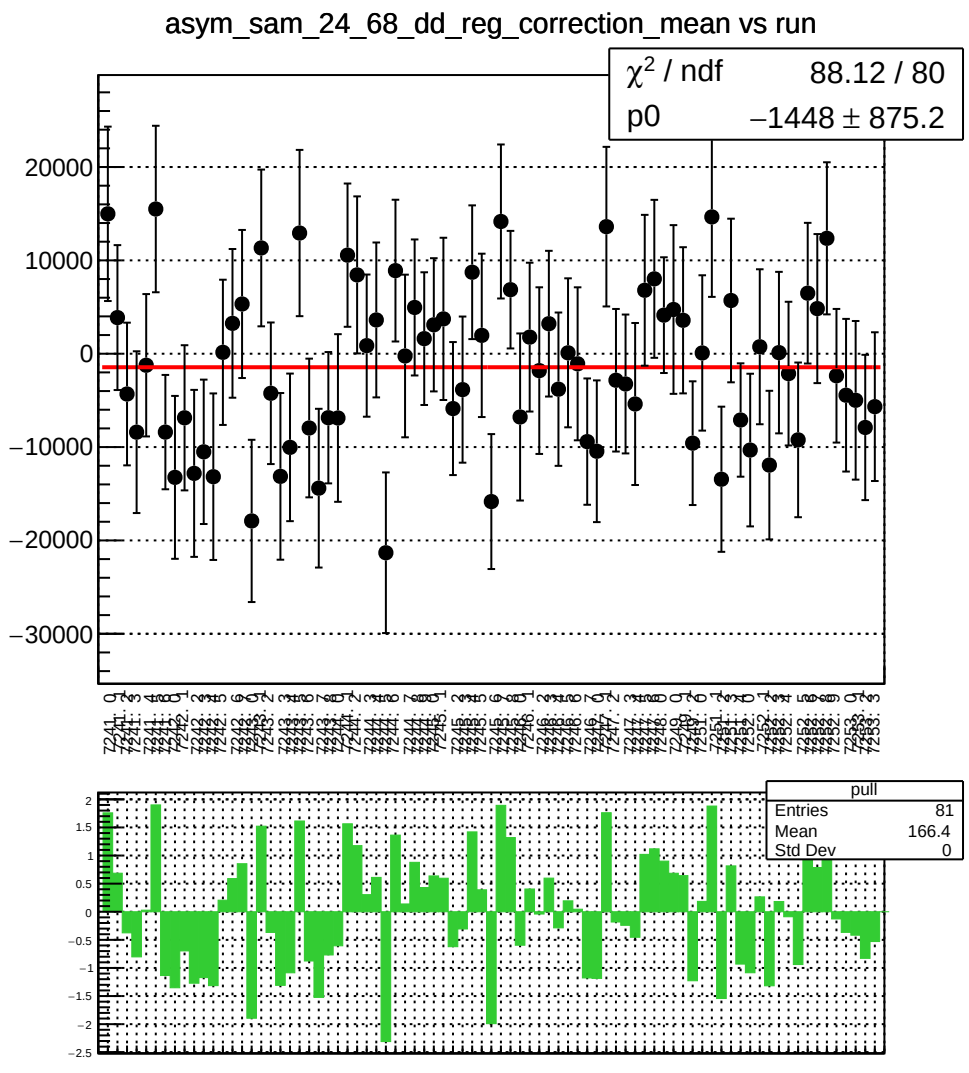

pull1D
Entries 81
Mean −0.03774
Std Dev 1.034

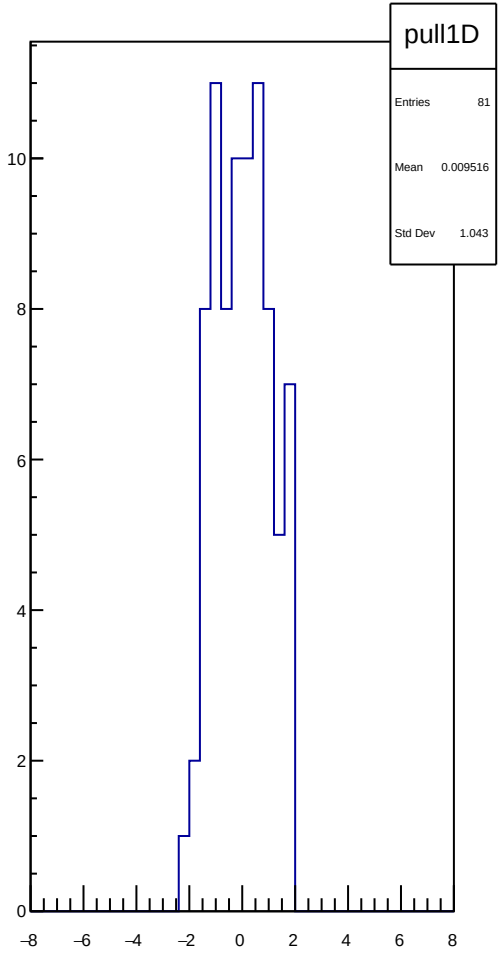

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
30
25
20
15
10
5
χ² / ndf 4.422e+05 / 80
p0 4.579e−12 ± 4.352e−15

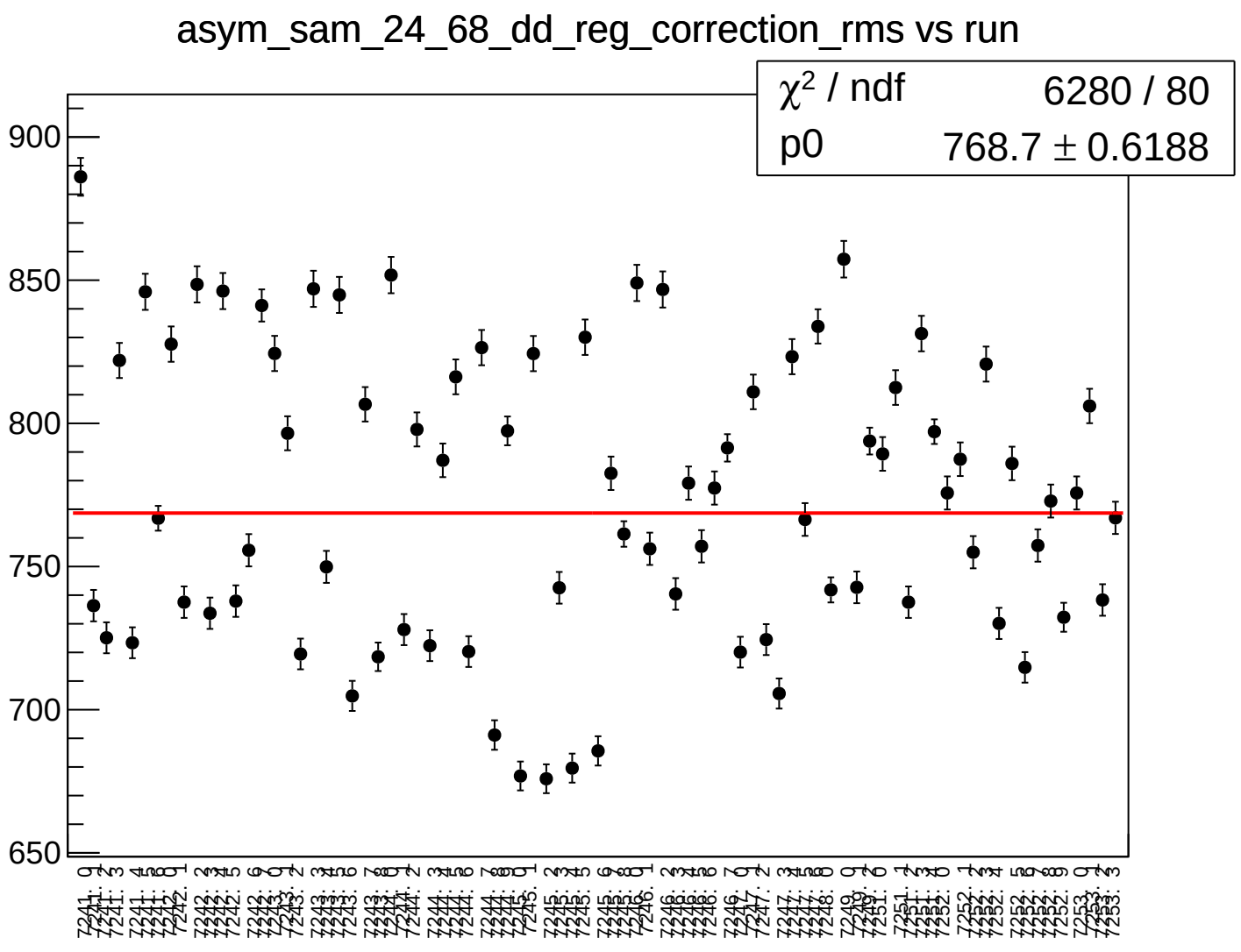

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 84.86 / 80
p0 −64.37 ± 80.66
pull
Entries 81
Mean −176.6
Std Dev 0

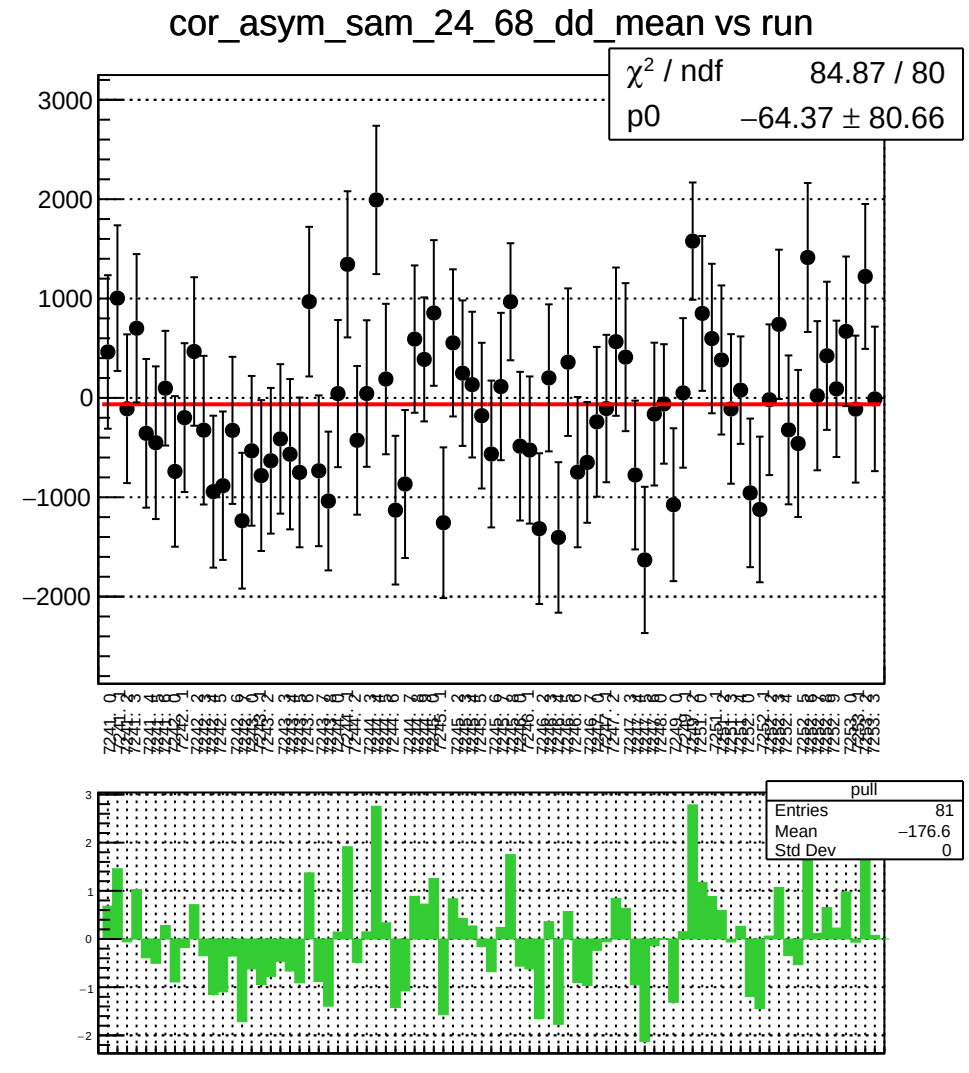

pull1D
Entries 81
Mean −0.01565
Std Dev 1.023

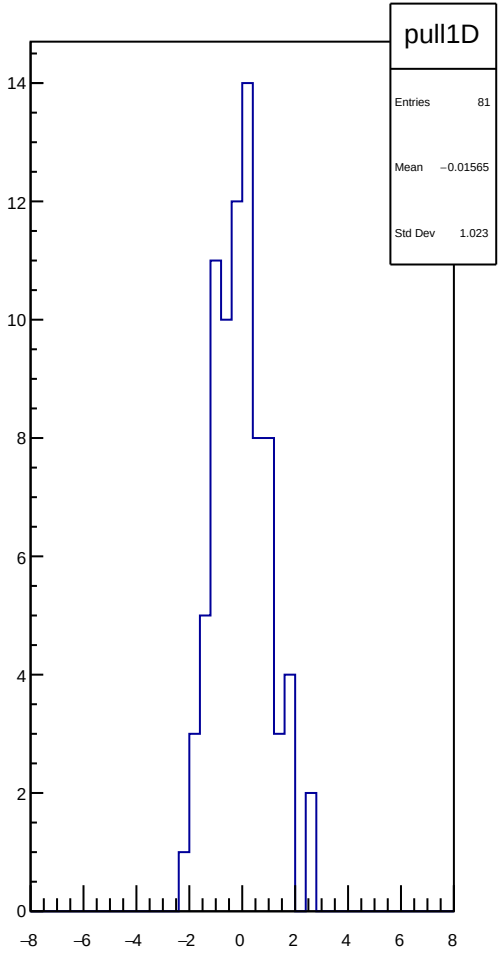

reg_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 259.7 / 80
p0 70.98 ± 0.05703
75
74
73
72
71
70
69

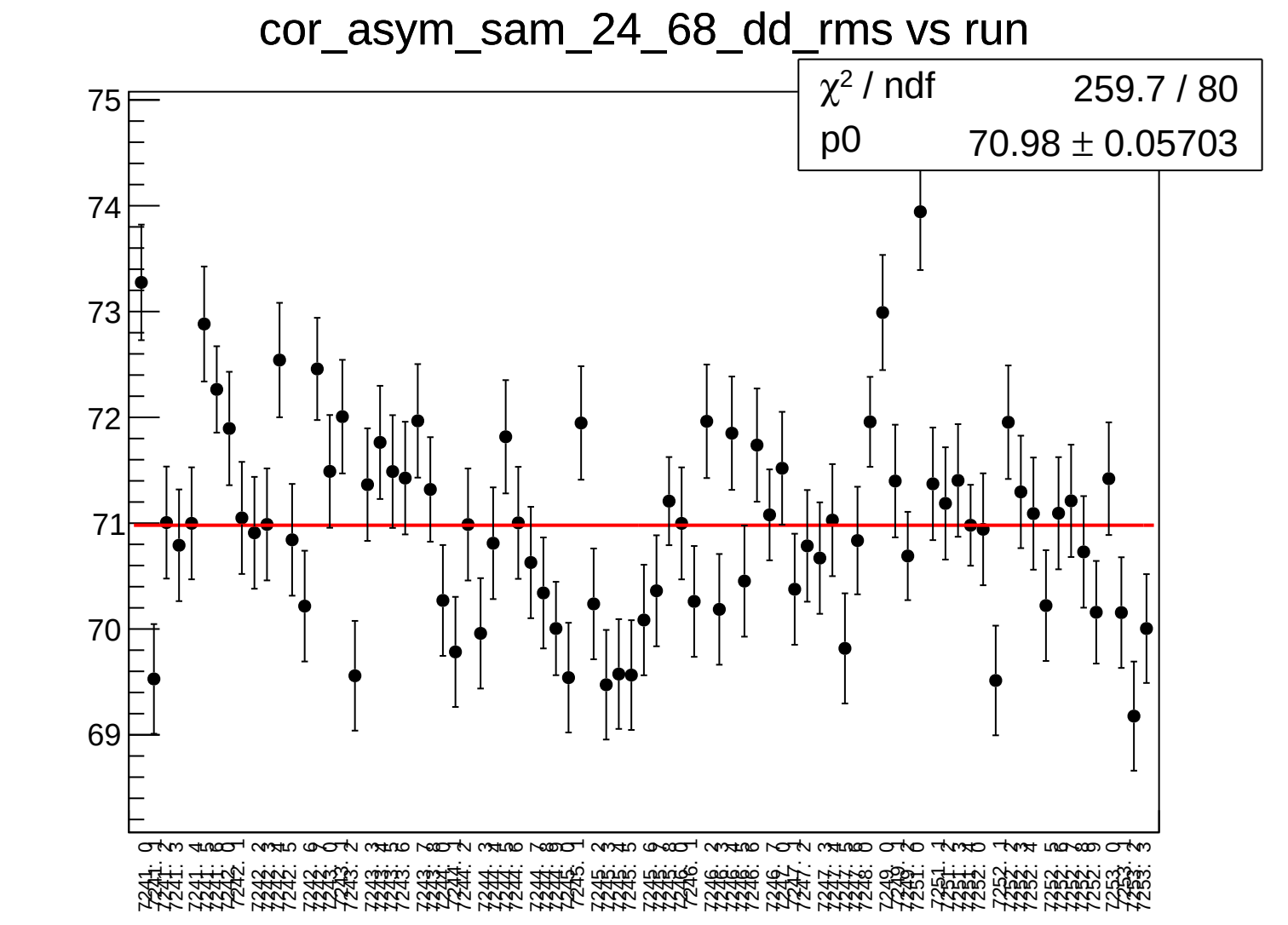

asym_sam_24_68_dd_reg_correction_mean vs run
χ² / ndf 88.12 / 80
p0 −1448 ± 875.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean 166.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

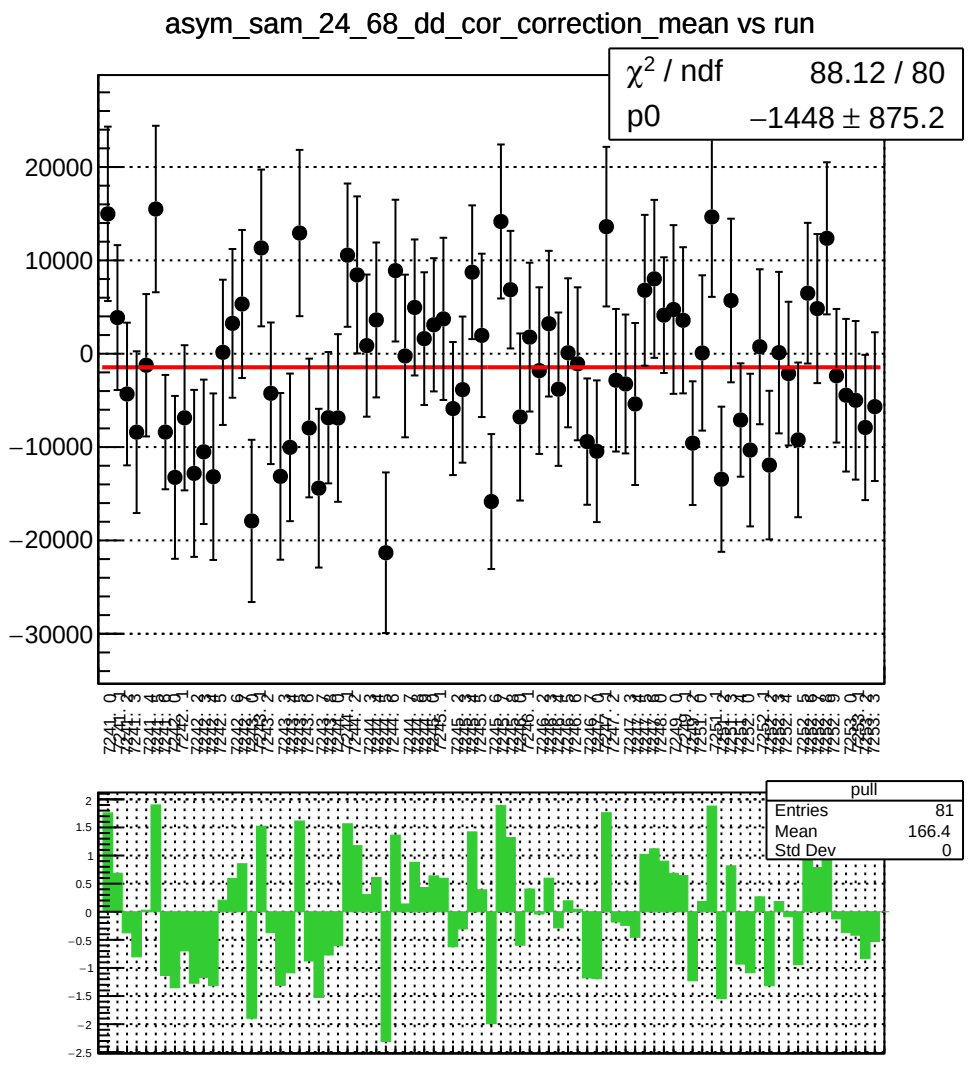

pull1D
Entries 81
Mean 0.009516
Std Dev 1.043
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

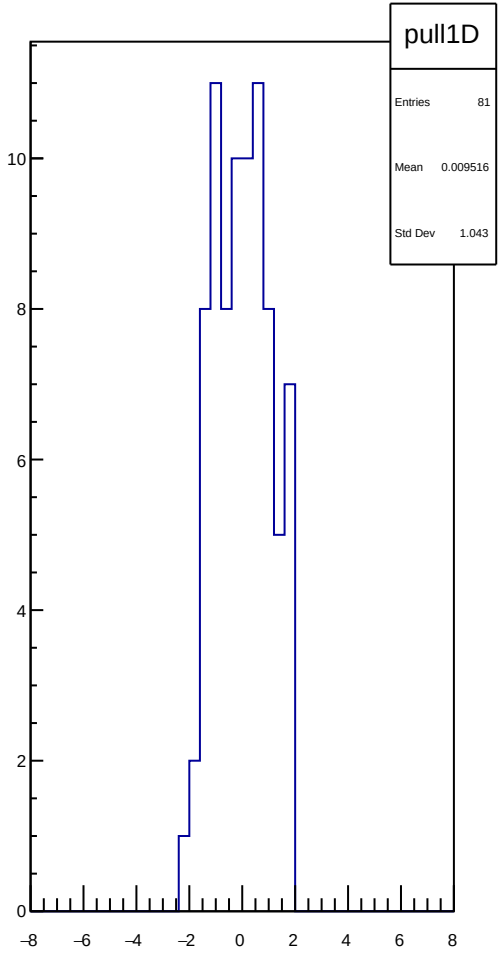

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 6280 / 80
p0 768.7 ± 0.6188
900
850
800
750
700
650

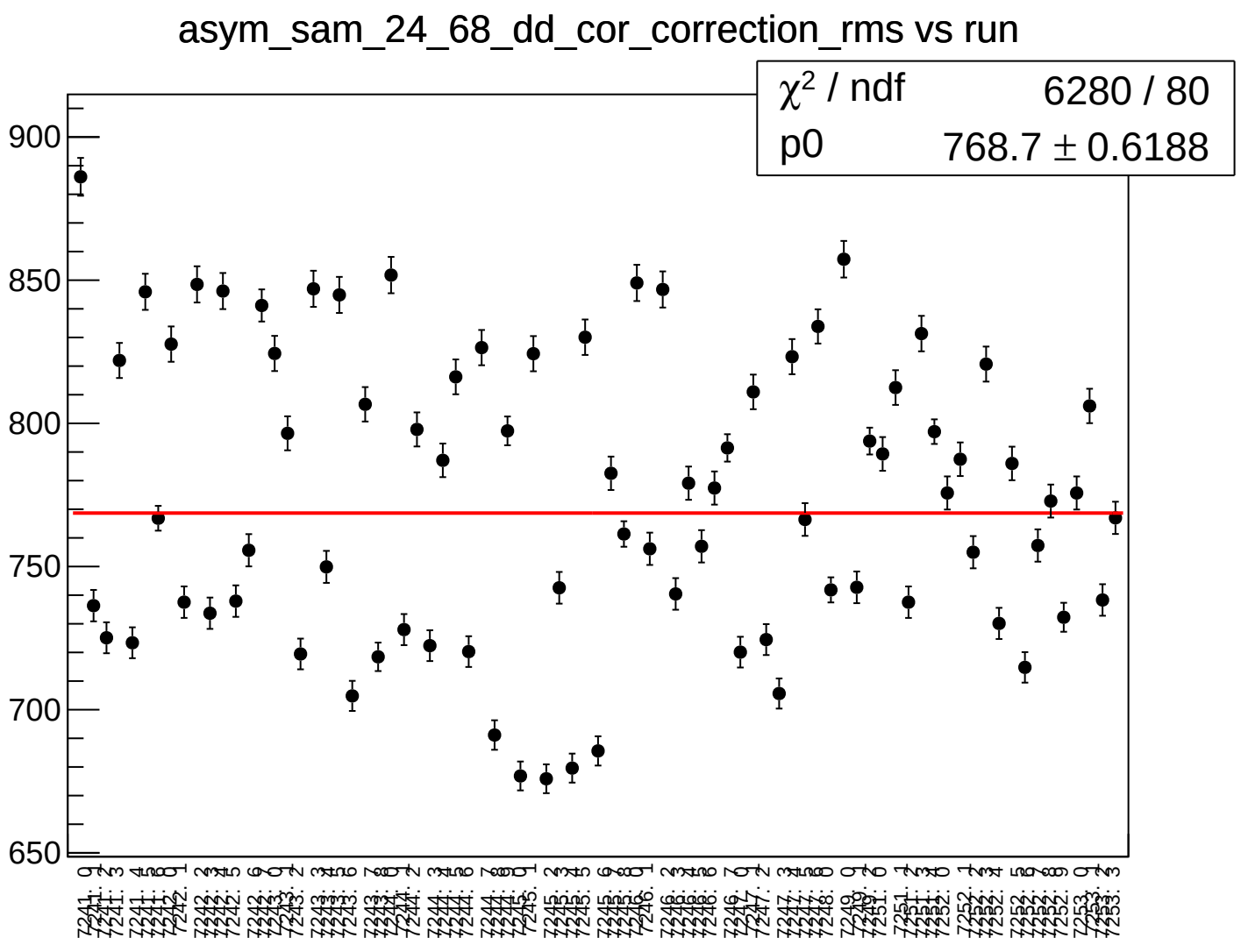

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 84.87 / 80
p0 −64.37 ± 80.66
pull
Entries 81
Mean −176.6
Std Dev 0

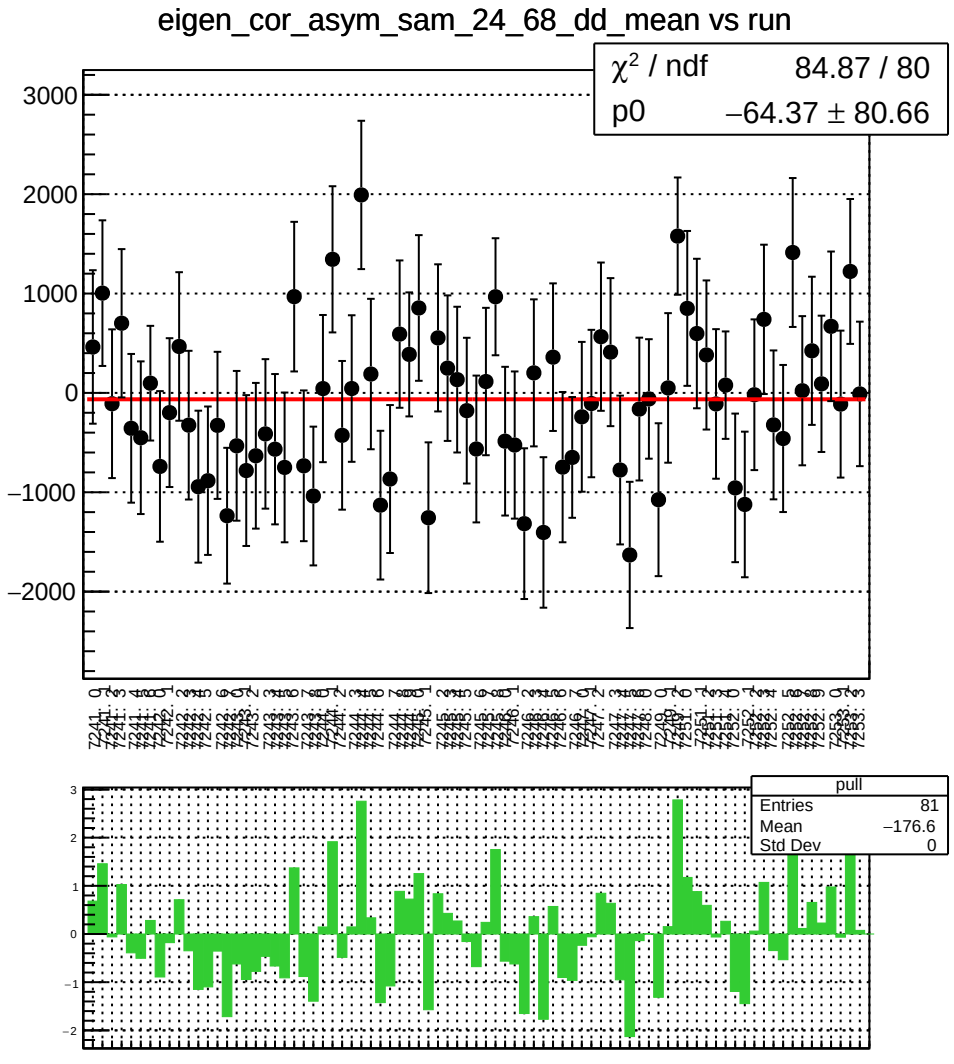

pull1D
Entries 81
Mean −0.01565
Std Dev 1.023

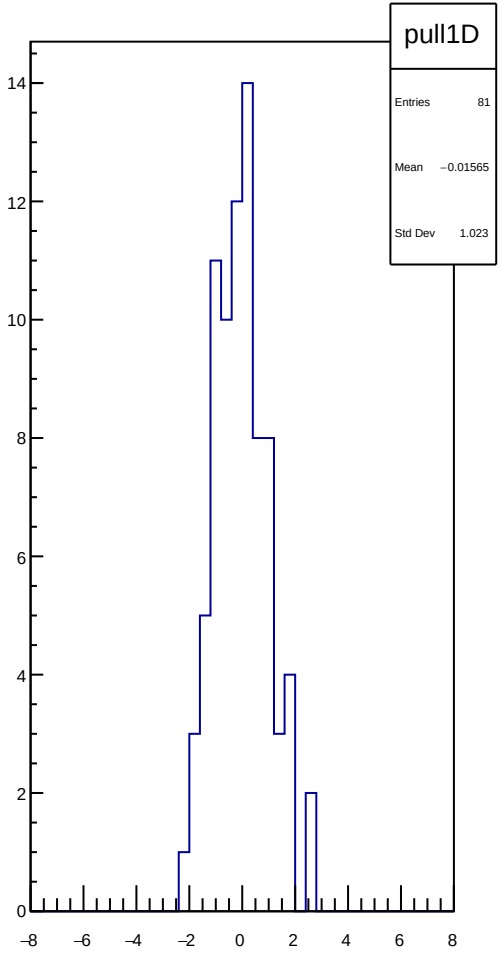

cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 259.7 / 80
p0 70.98 ± 0.05703
75
74
73
72
71
70
69

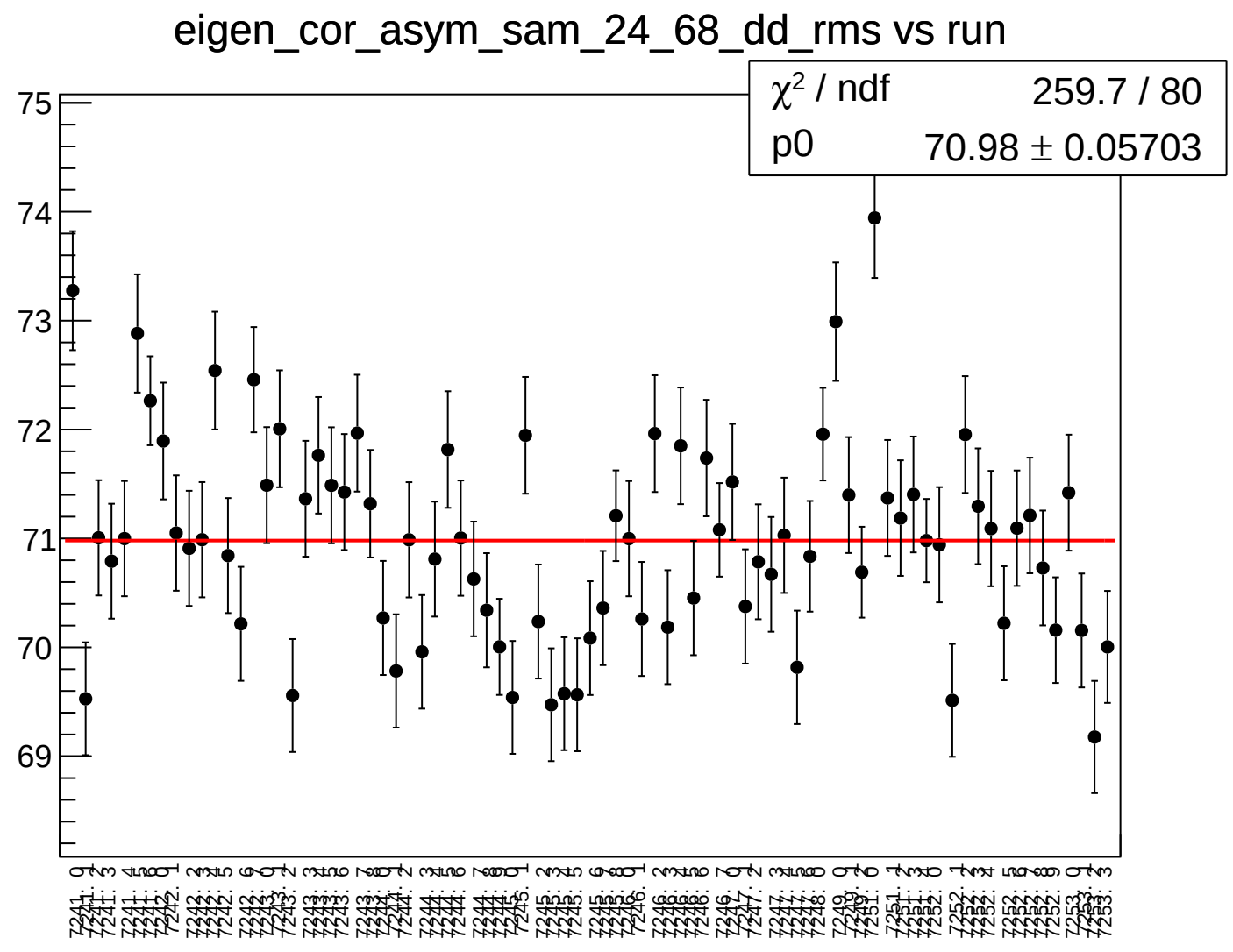

asym_sam_24_68_dd_cor_correction_mean vs run
χ² / ndf 88.12 / 80
p0 −1448 ± 875.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean 166.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

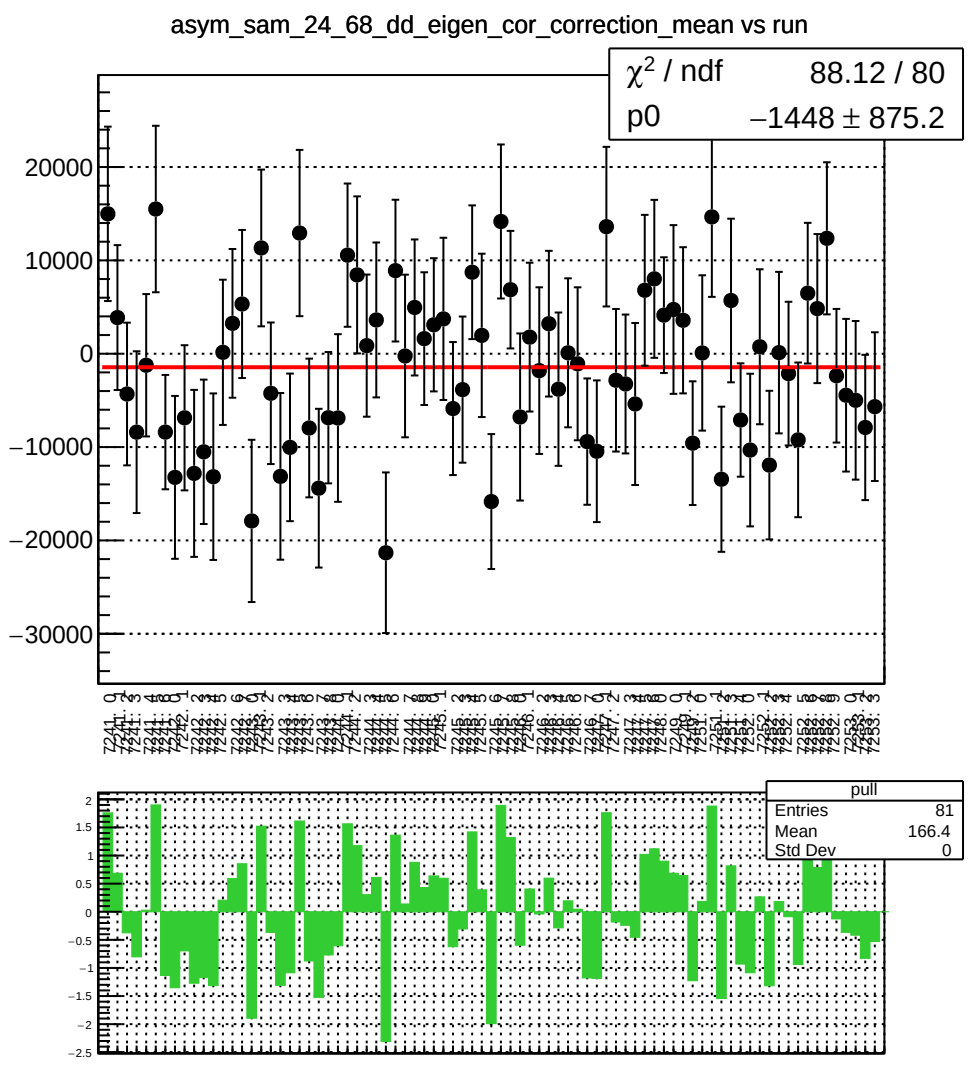

pull1D
Entries 81
Mean 0.009516
Std Dev 1.043
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

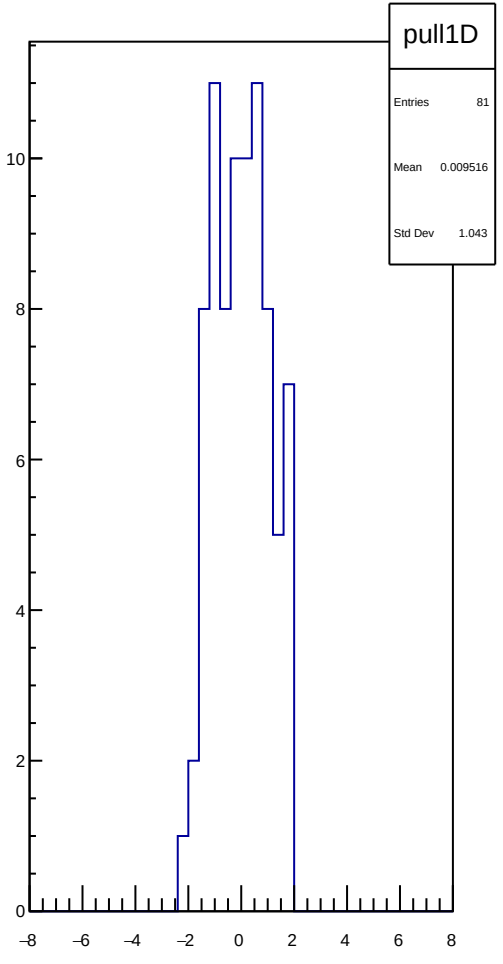

asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 6280 / 80
p0 768.7 ± 0.6188
900
850
800
750
700
650

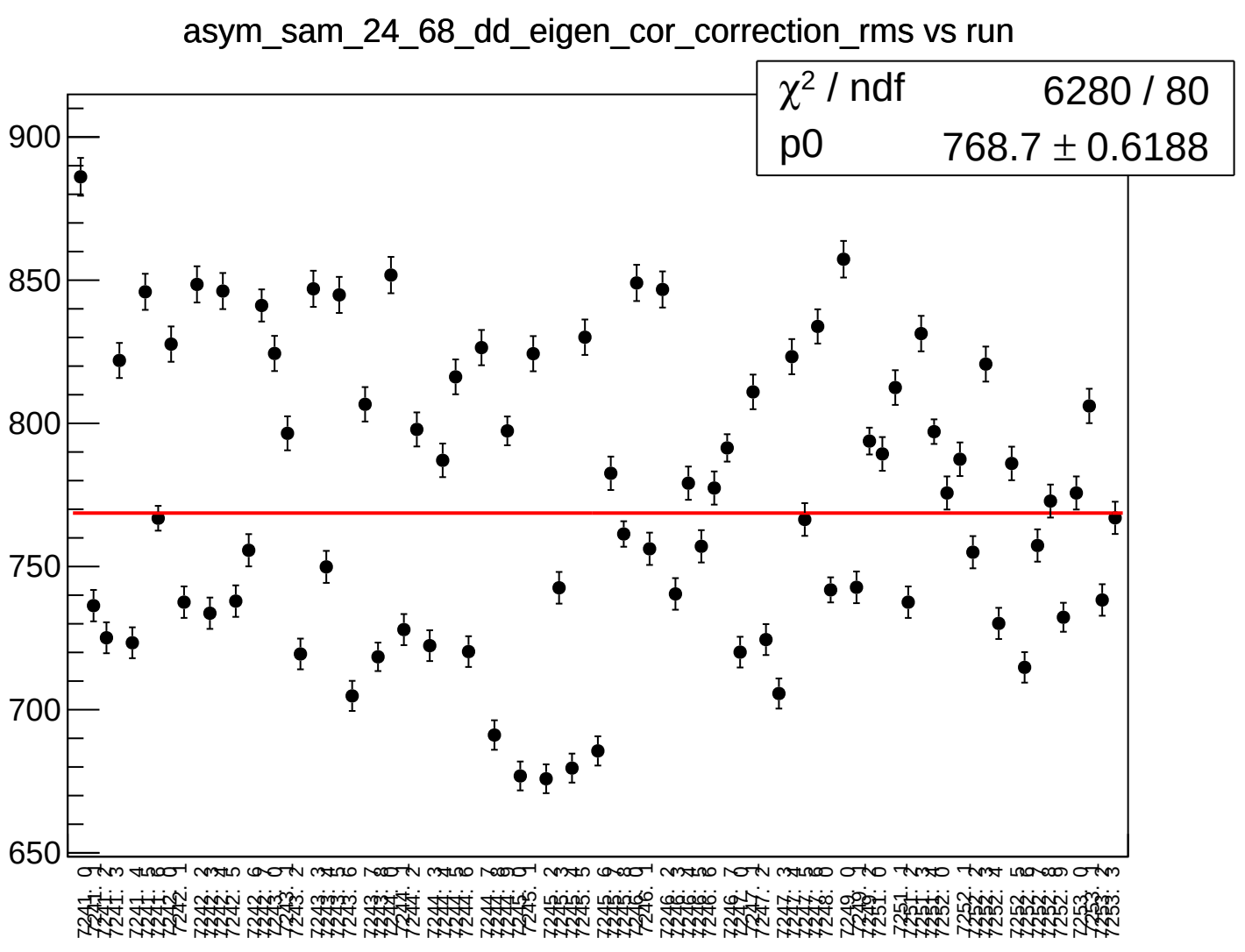

eigen_cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 84.87 / 80
p0 −64.37 ± 80.66
pull
Entries 81
Mean −176.6
Std Dev 0

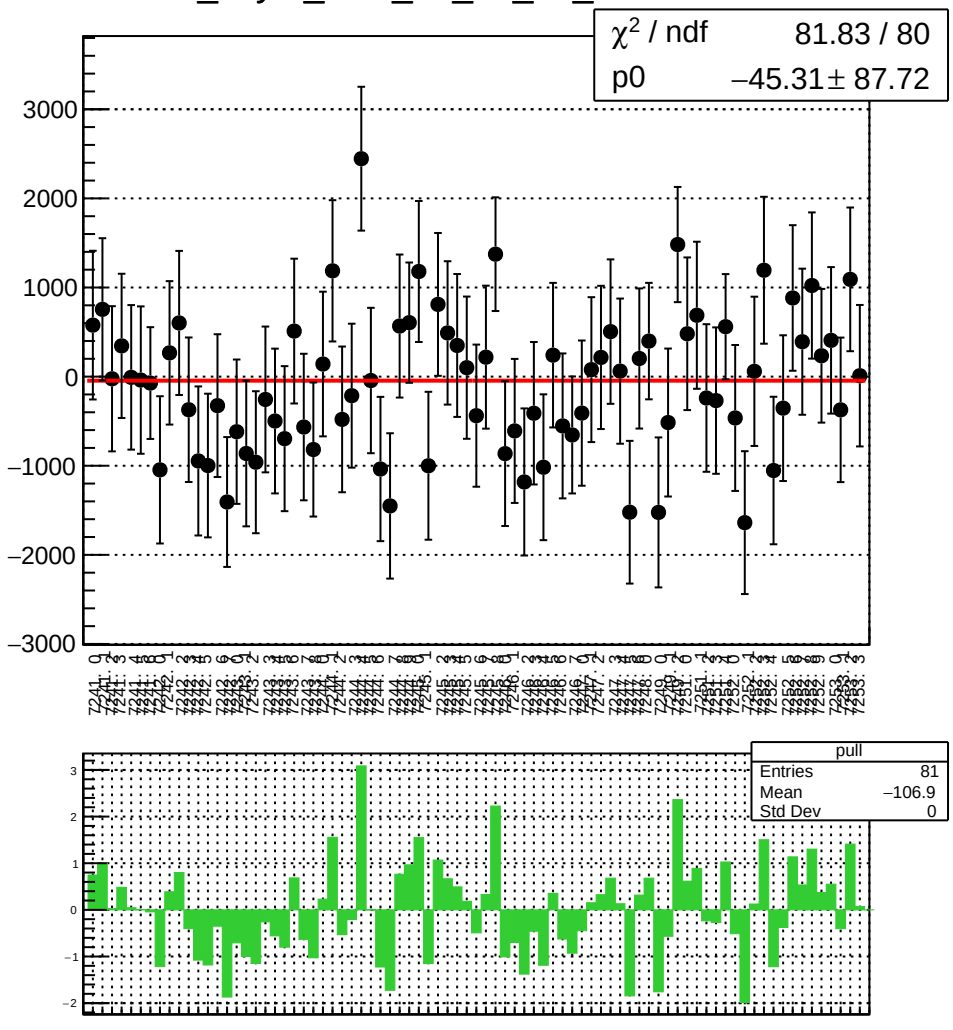

pull1D
Entries 81
Mean −0.01565
Std Dev 1.023

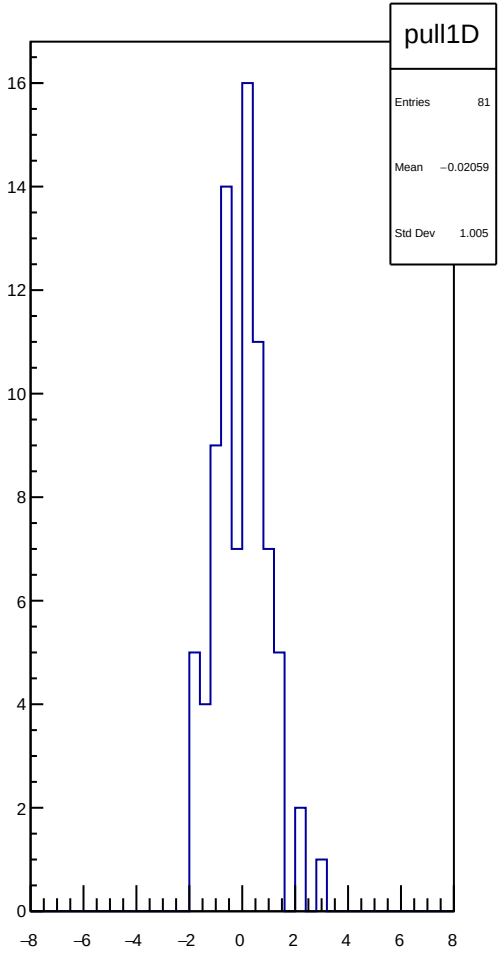

eigen_cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 259.7 / 80
p0 70.98 ± 0.05703
75
74
73
72
71
70
69

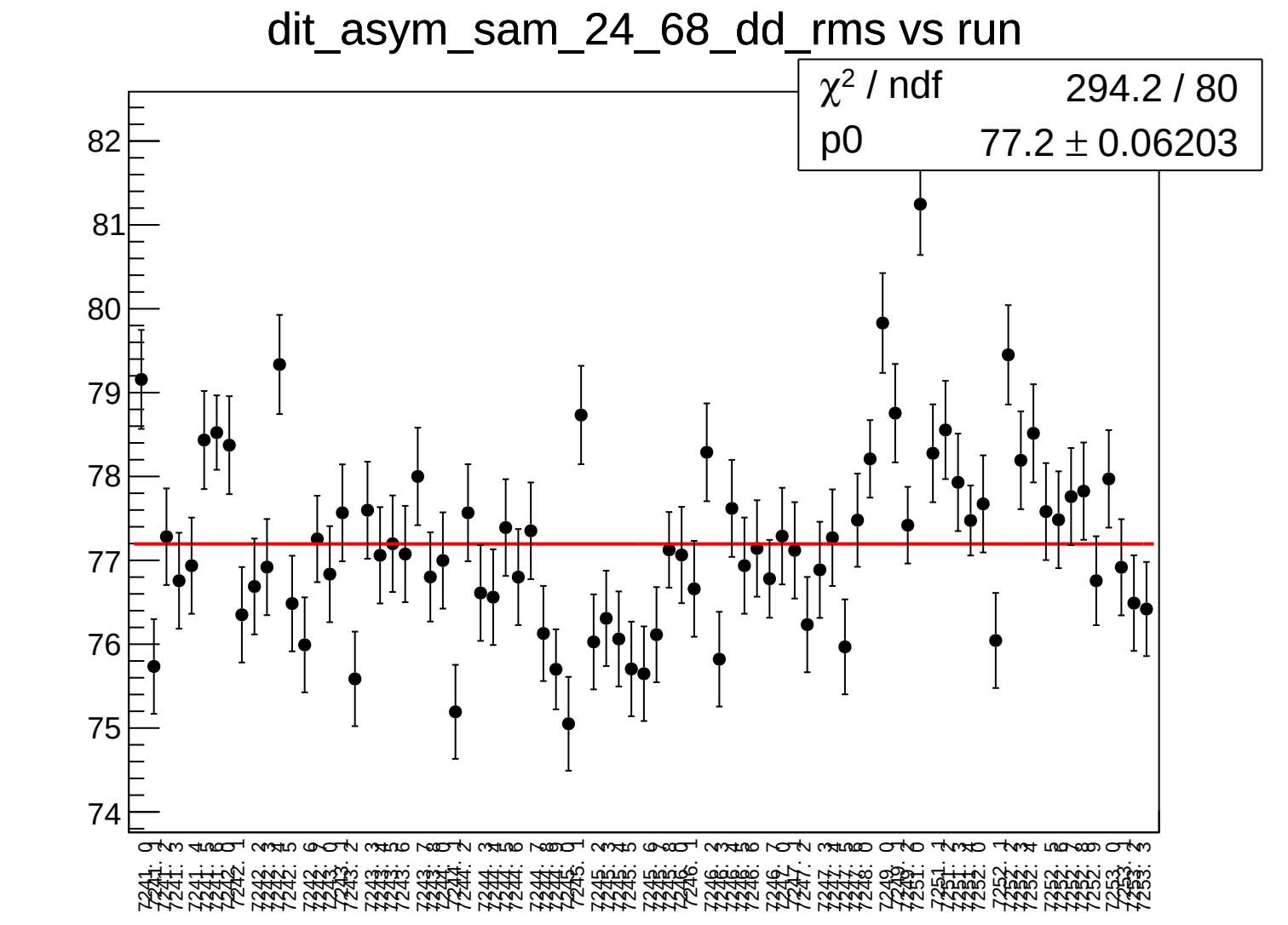

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
χ² / ndf 88.12 / 80
p0 −1448 ± 875.2
pull
Entries 81
Mean 166.4
Std Dev 0

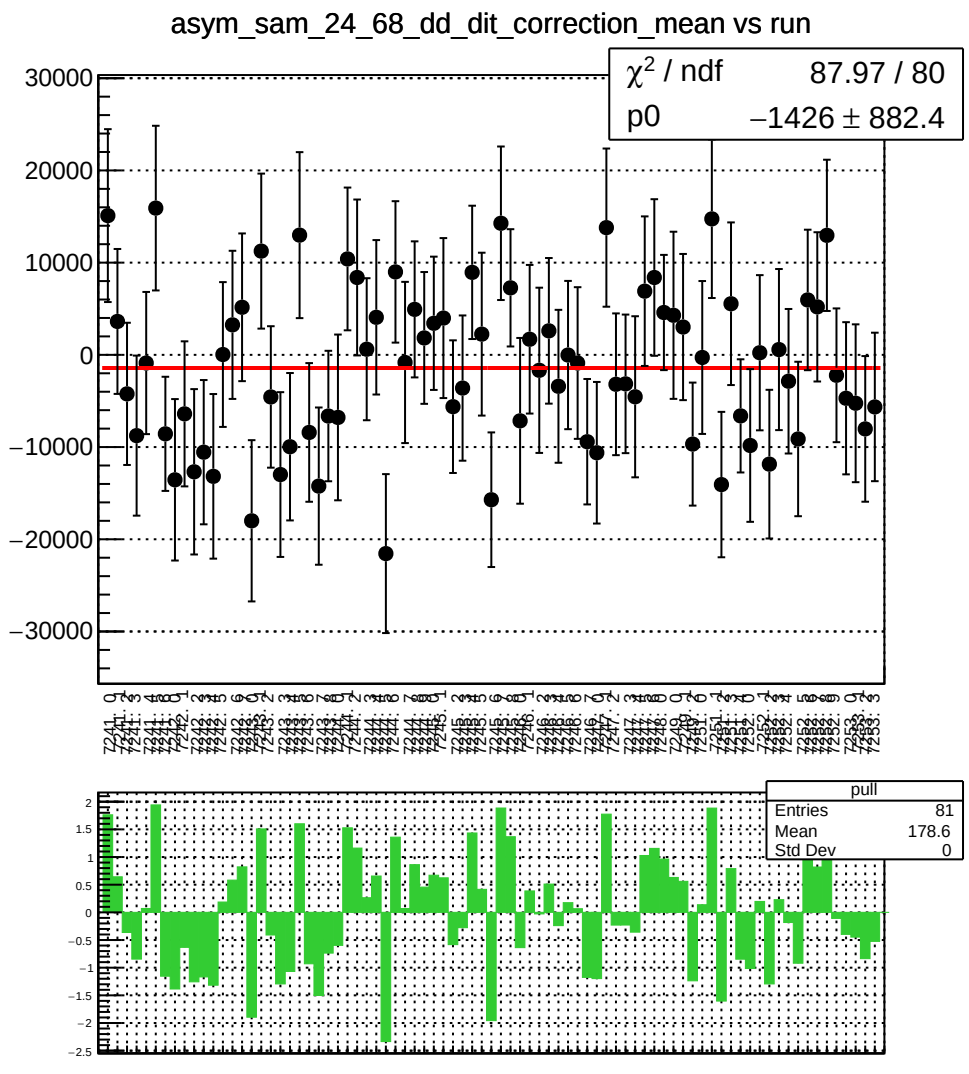

pull1D
Entries 81
Mean 0.009516
Std Dev 1.043

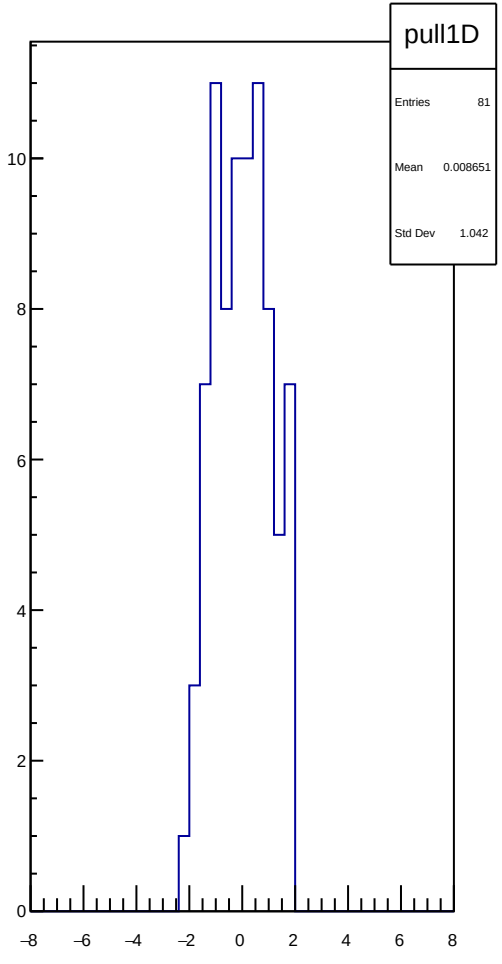

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 6280 / 80
p0 768.7 ± 0.6188
900
850
800
750
700
650

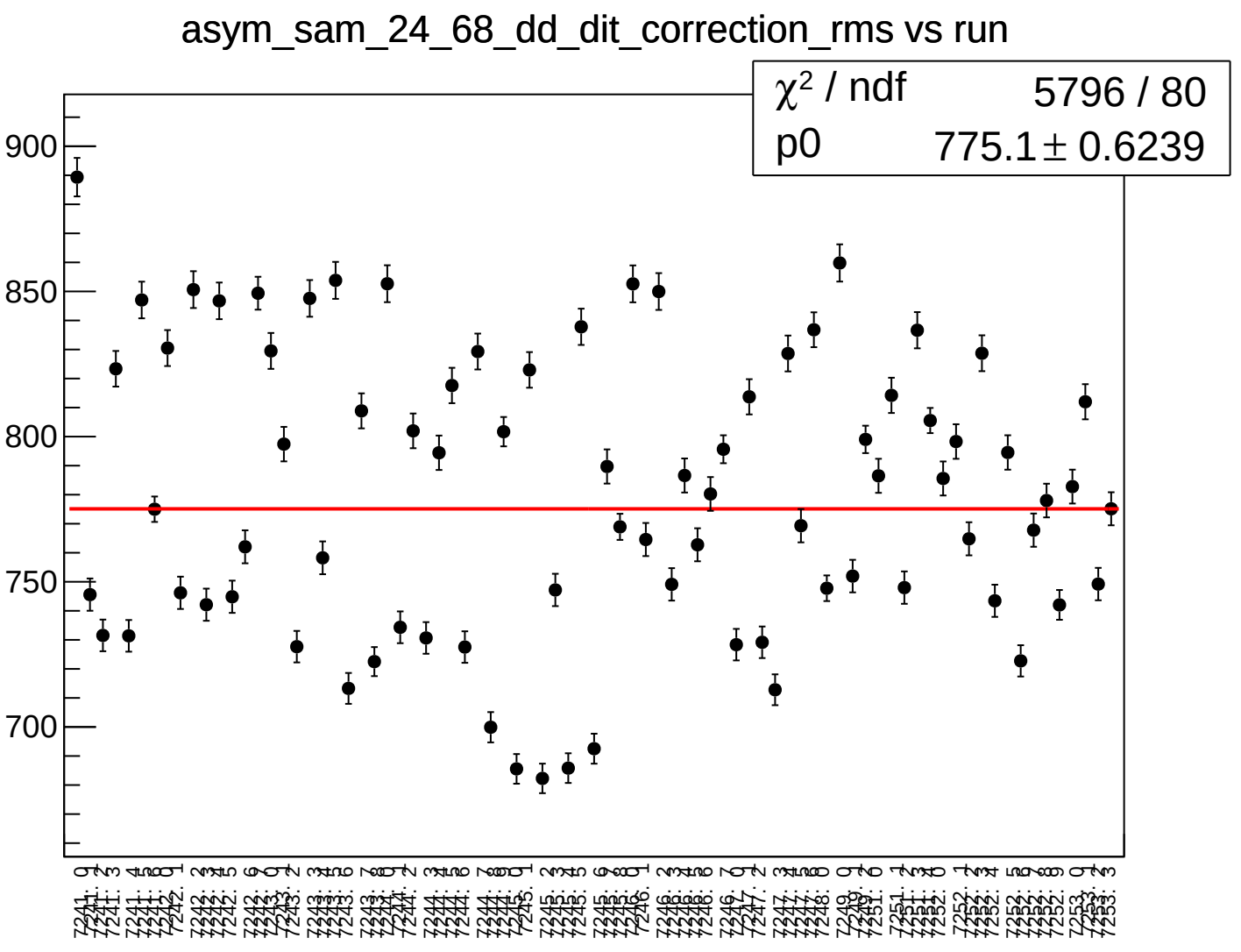

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 81.83 / 80
p0 −45.31 ± 87.72
pull
Entries 81
Mean −106.9
Std Dev 0

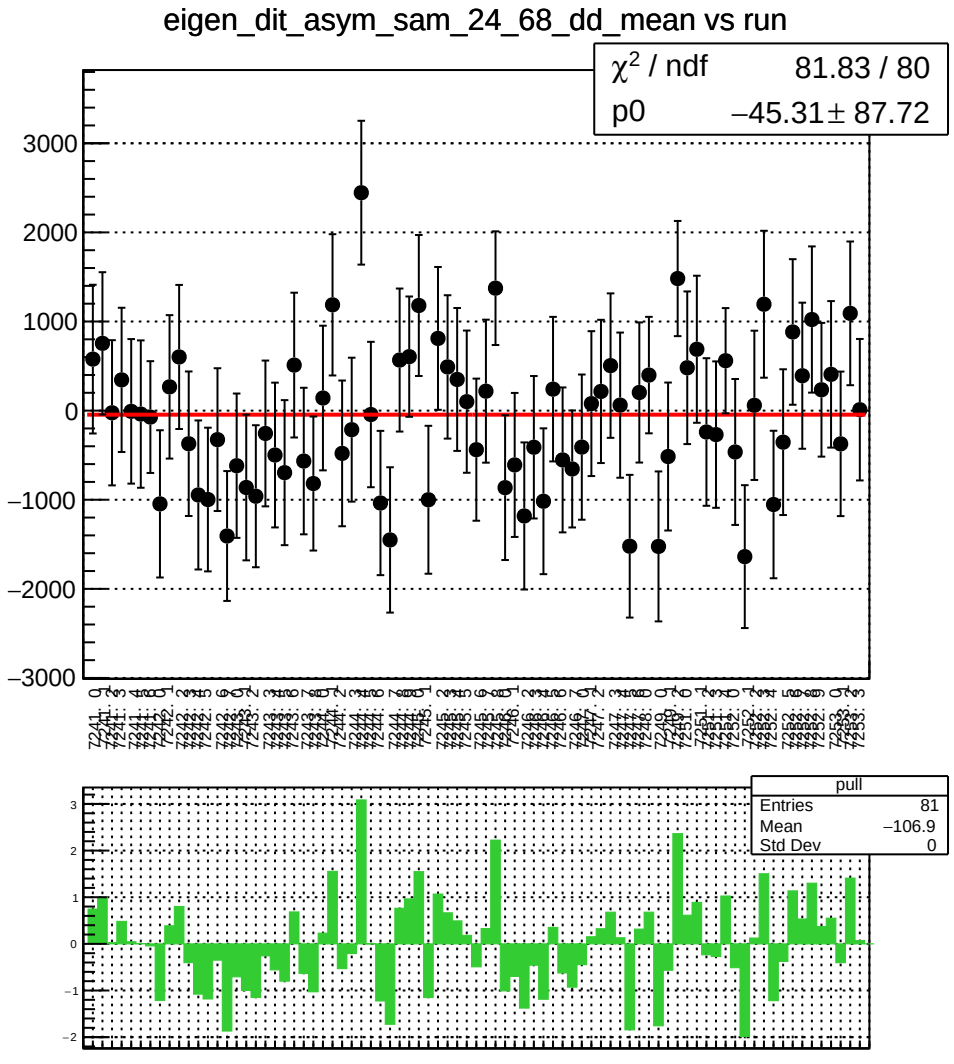

pull1D
Entries 81
Mean −0.02059
Std Dev 1.005

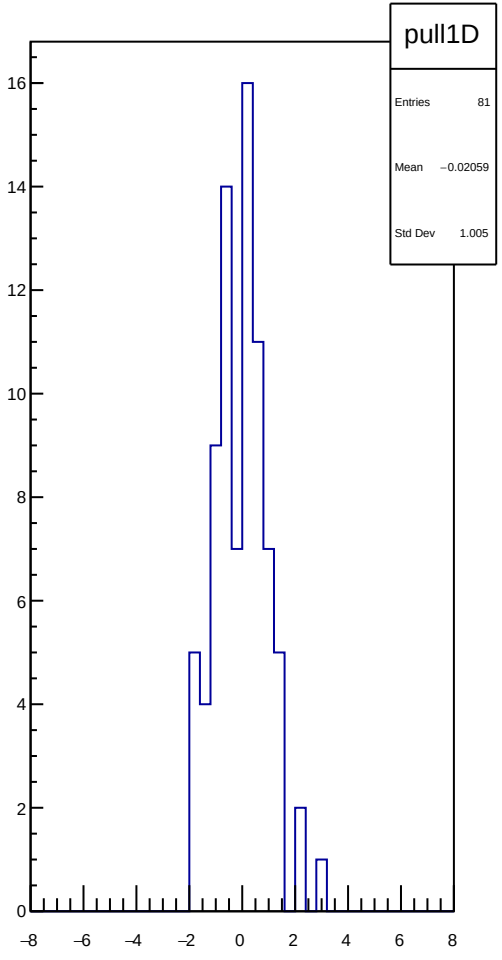

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 294.2 / 80
p0 77.2 ± 0.06203
82
81
80
79
78
77
76
75
74

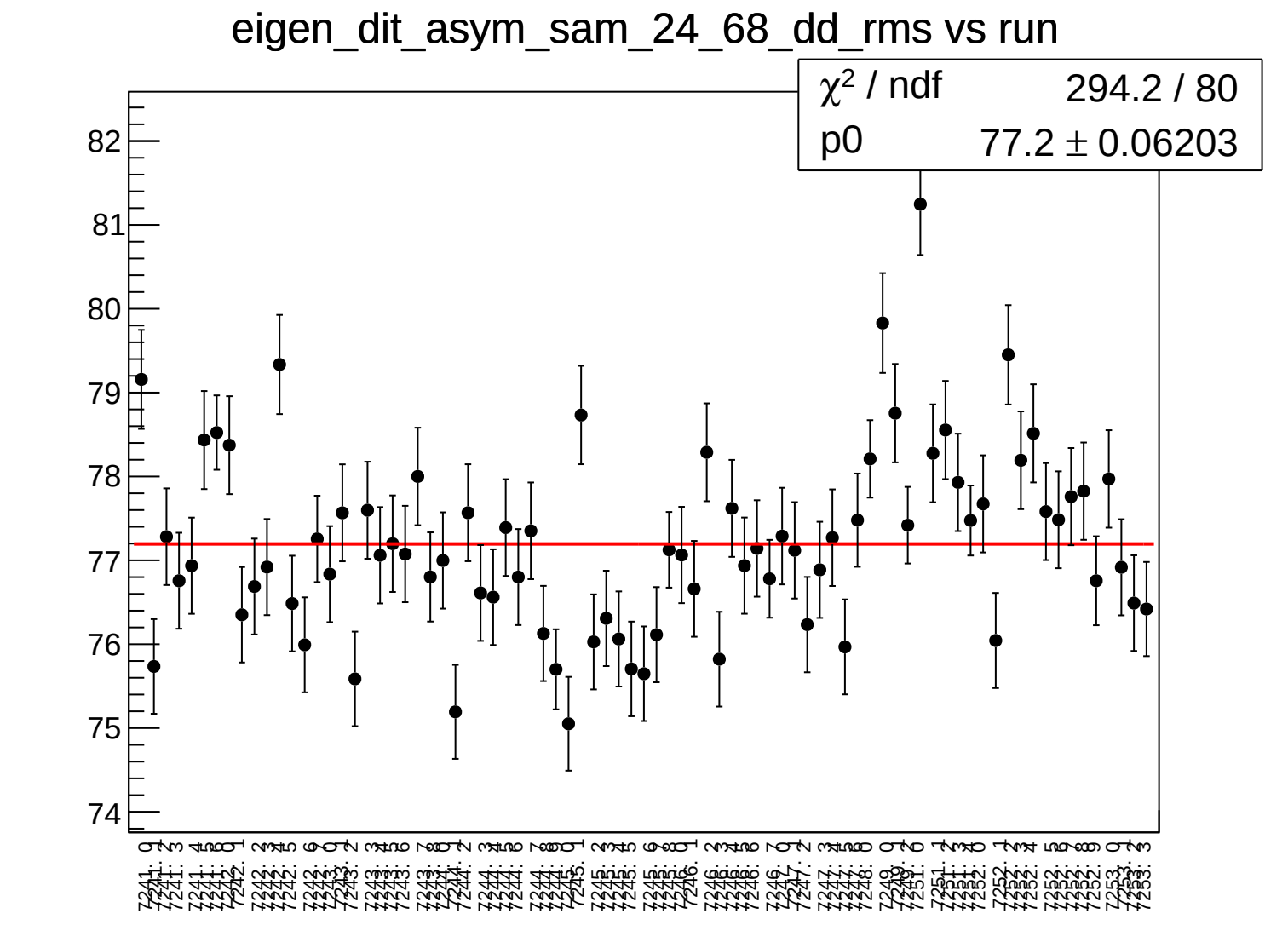

asym_sam_24_68_dd_dit_correction_mean vs run
χ² / ndf 87.97 / 80
p0 −1426 ± 882.4
pull
Entries 81
Mean 178.6
Std Dev 0

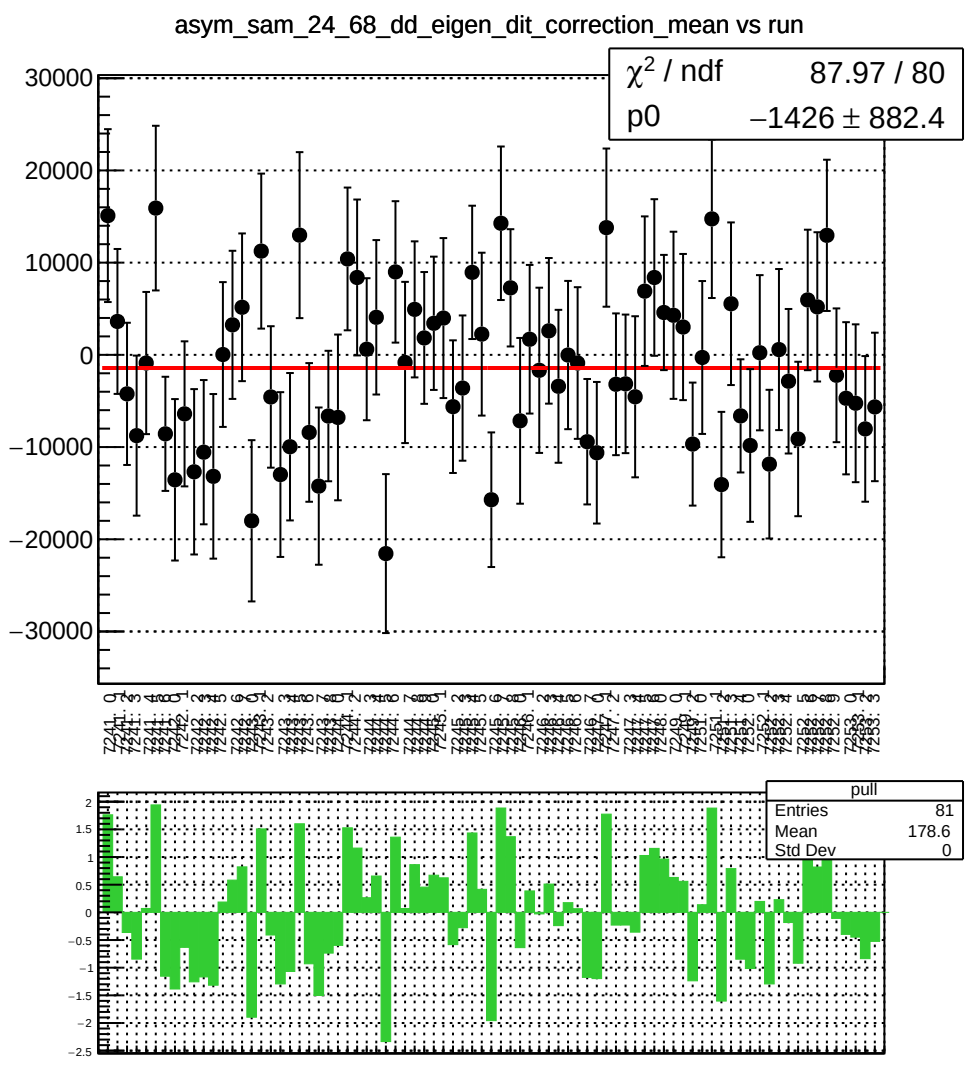

pull1D
Entries 81
Mean 0.008651
Std Dev 1.042

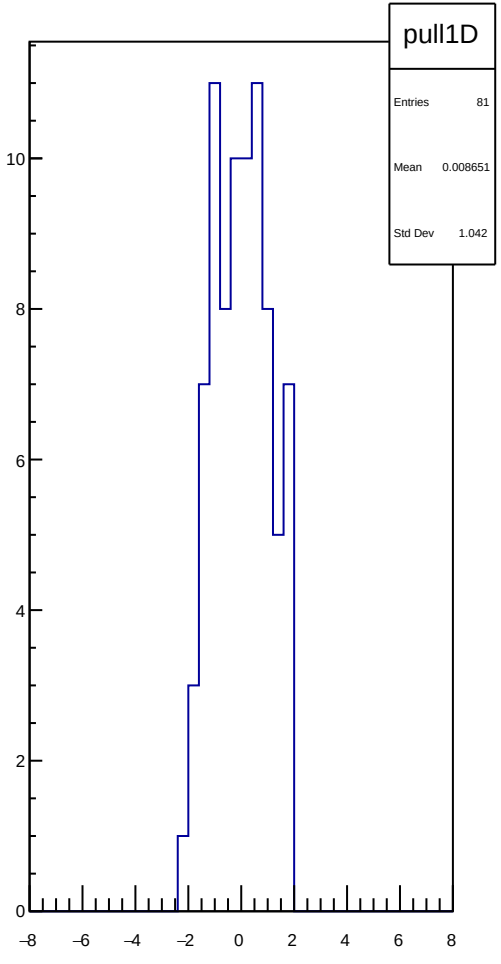

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 5796 / 80
p0 775.1 ± 0.6239
900
850
800
750
700

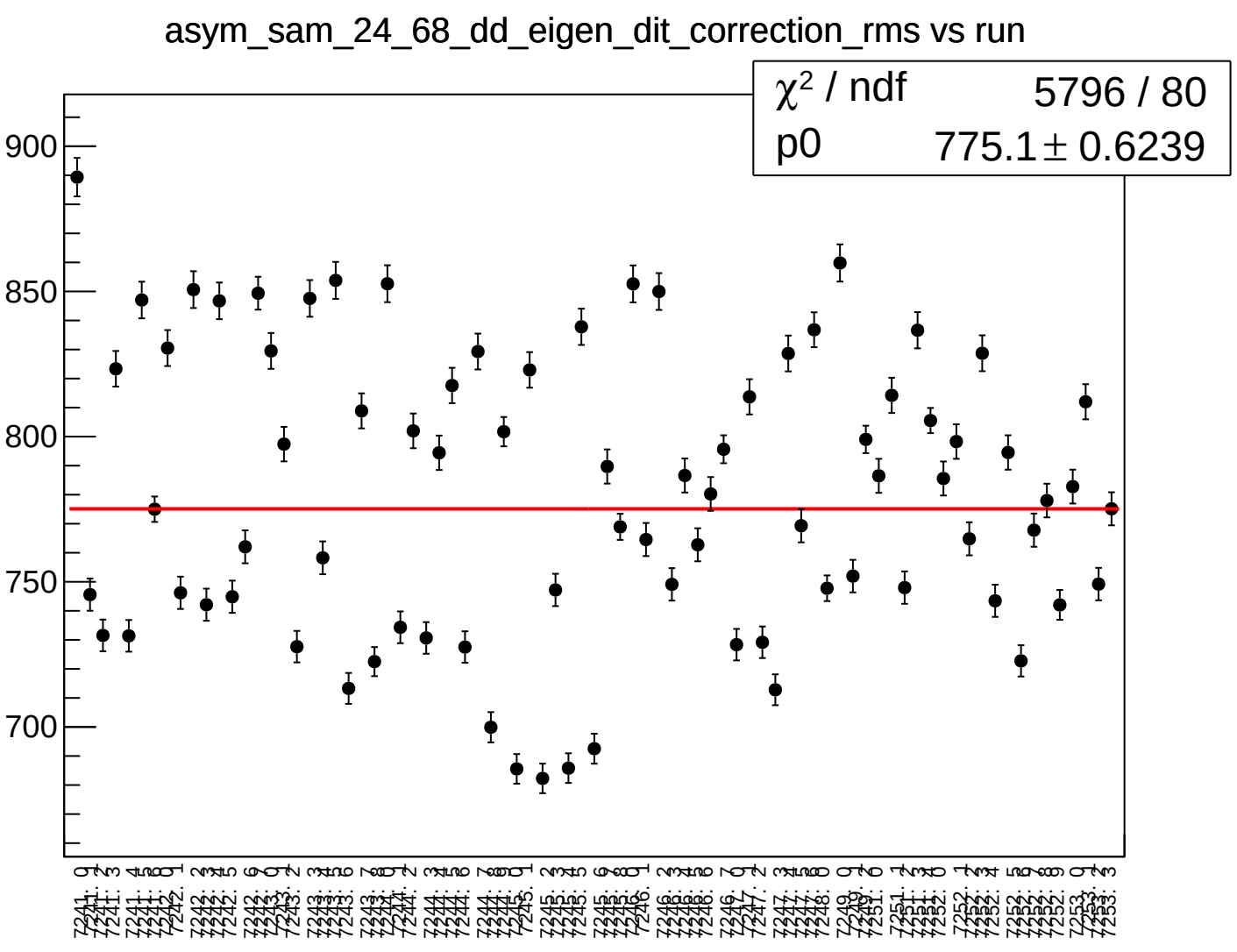

eigen_dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 81.83 / 80
p0 −45.31 ± 87.72
pull
Entries 81
Mean −106.9
Std Dev 0

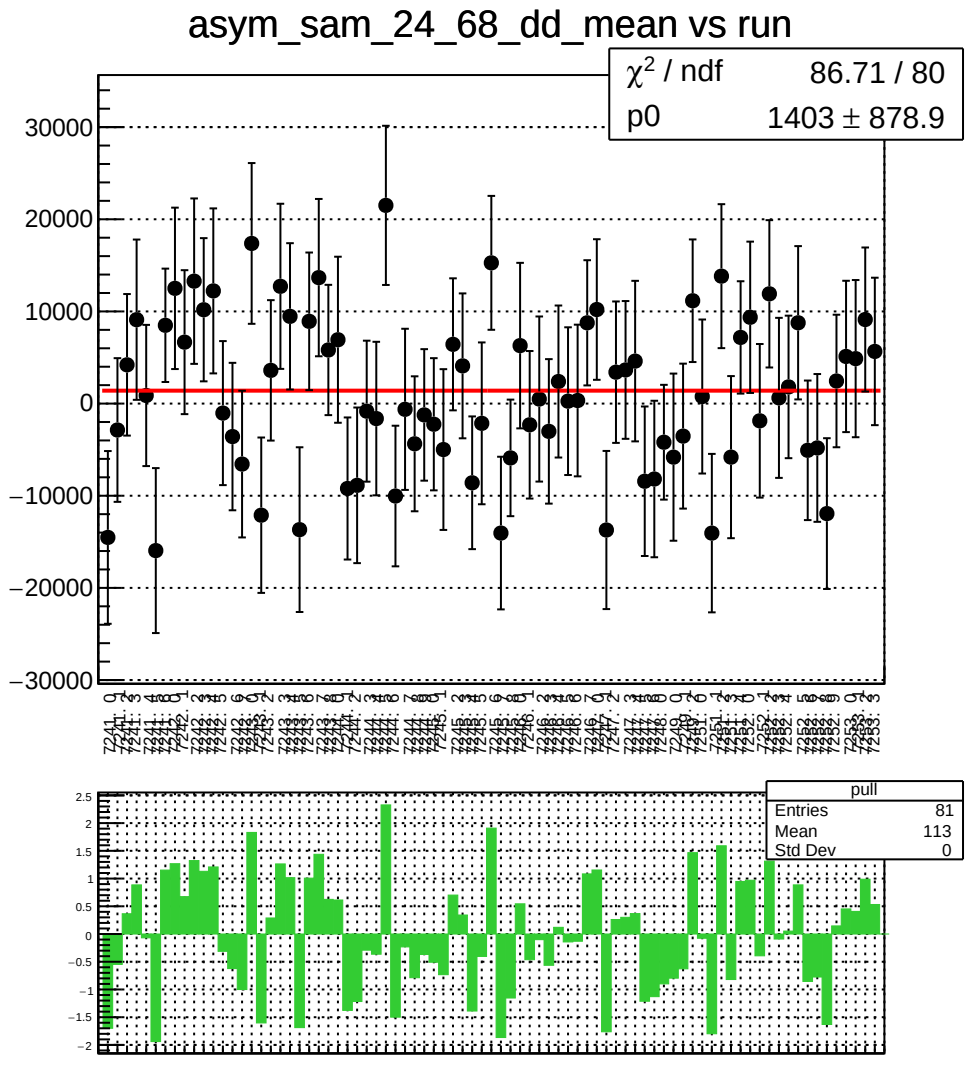

pull1D
Entries 81
Mean −0.02059
Std Dev 1.005

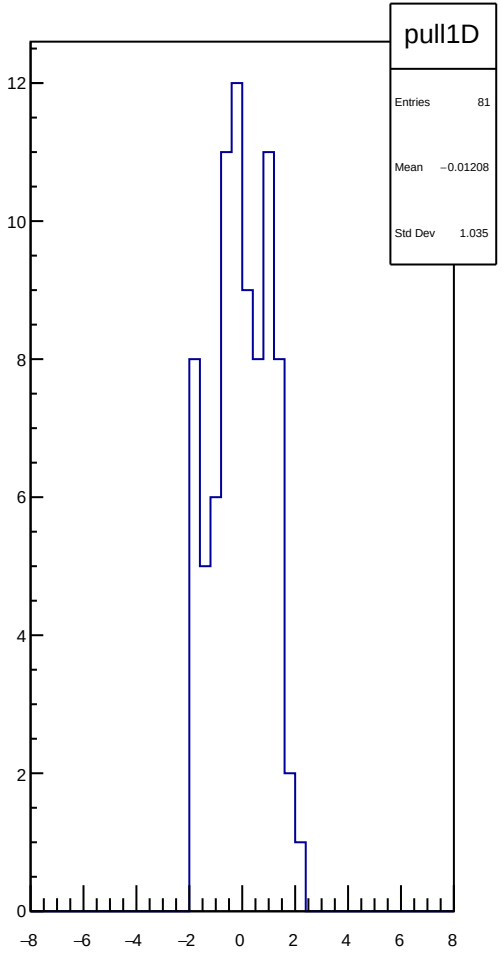

eigen_dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 294.2 / 80
p0 77.2 ± 0.06203
82
81
80
79
78
77
76
75
74

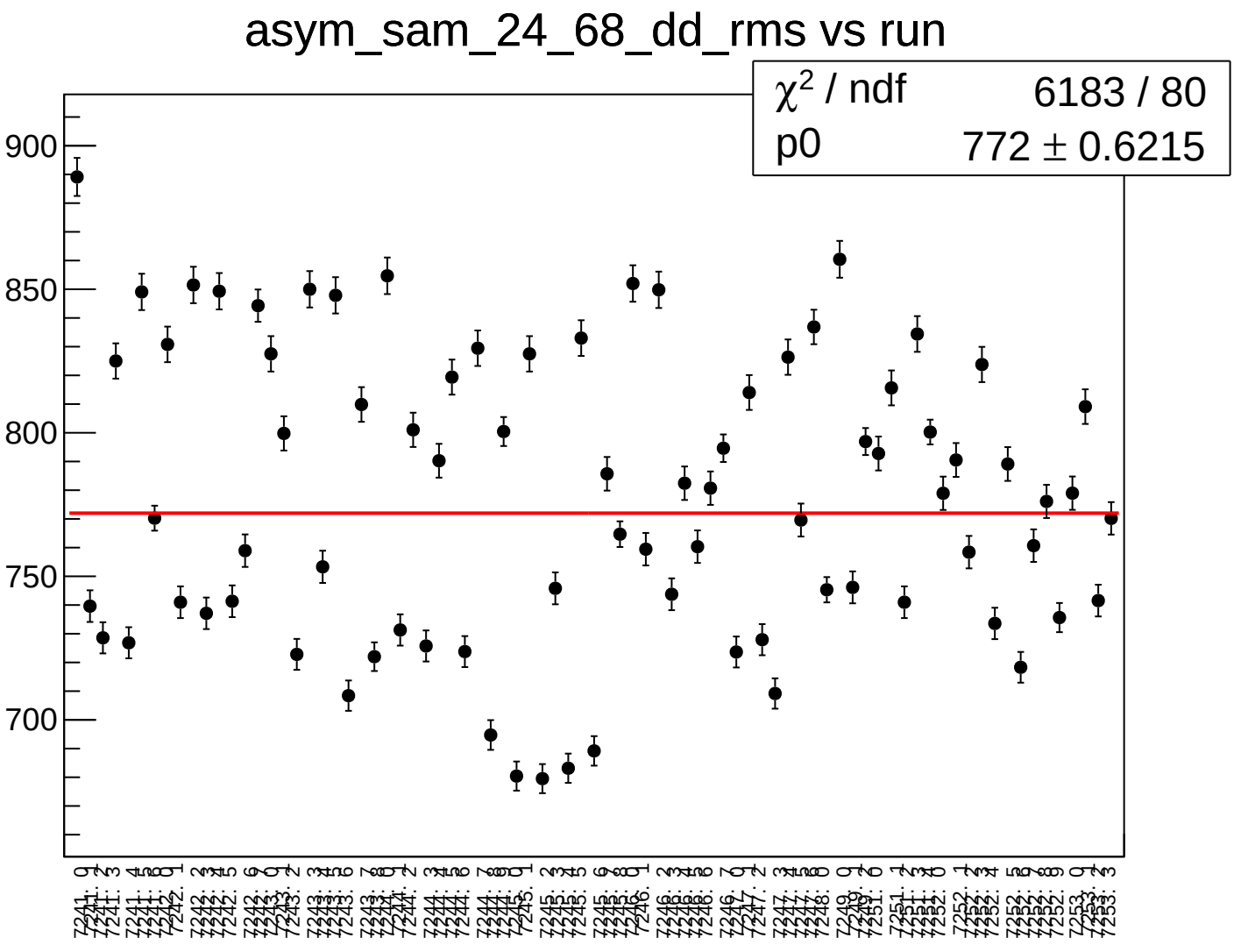

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
χ² / ndf 87.97 / 80
p0 −1426 ± 882.4
pull
Entries 81
Mean 178.6
Std Dev 0

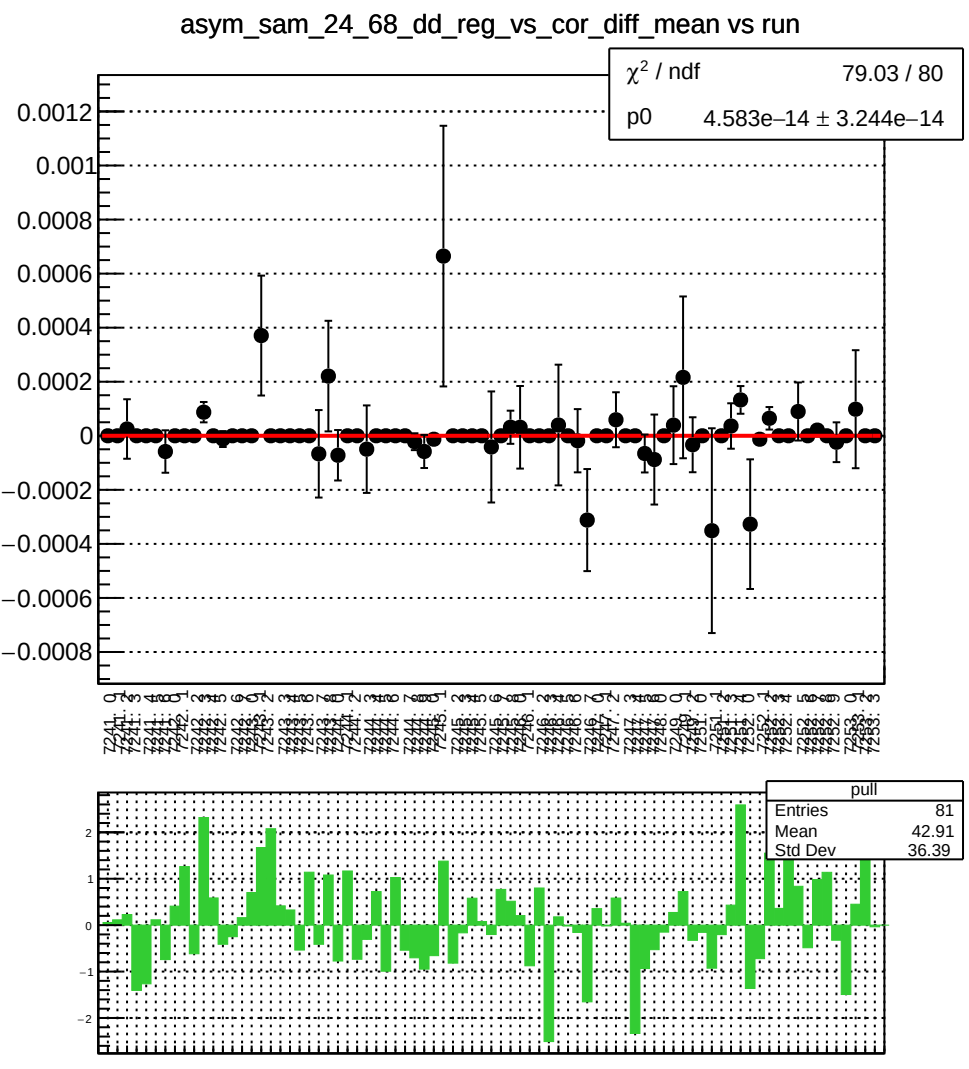

pull1D
Entries 81
Mean 0.008651
Std Dev 1.042

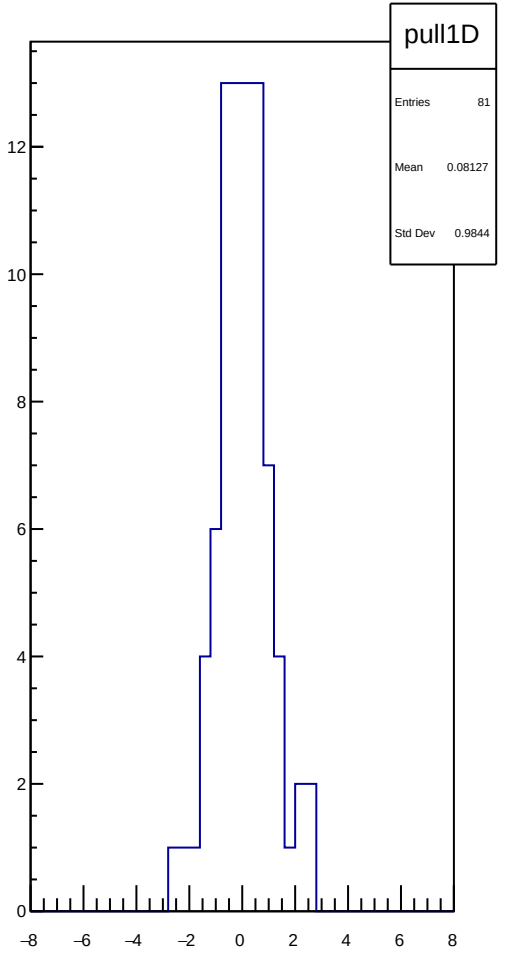

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 5796 / 80
p0 775.1 ± 0.6239
900
850
800
750
700

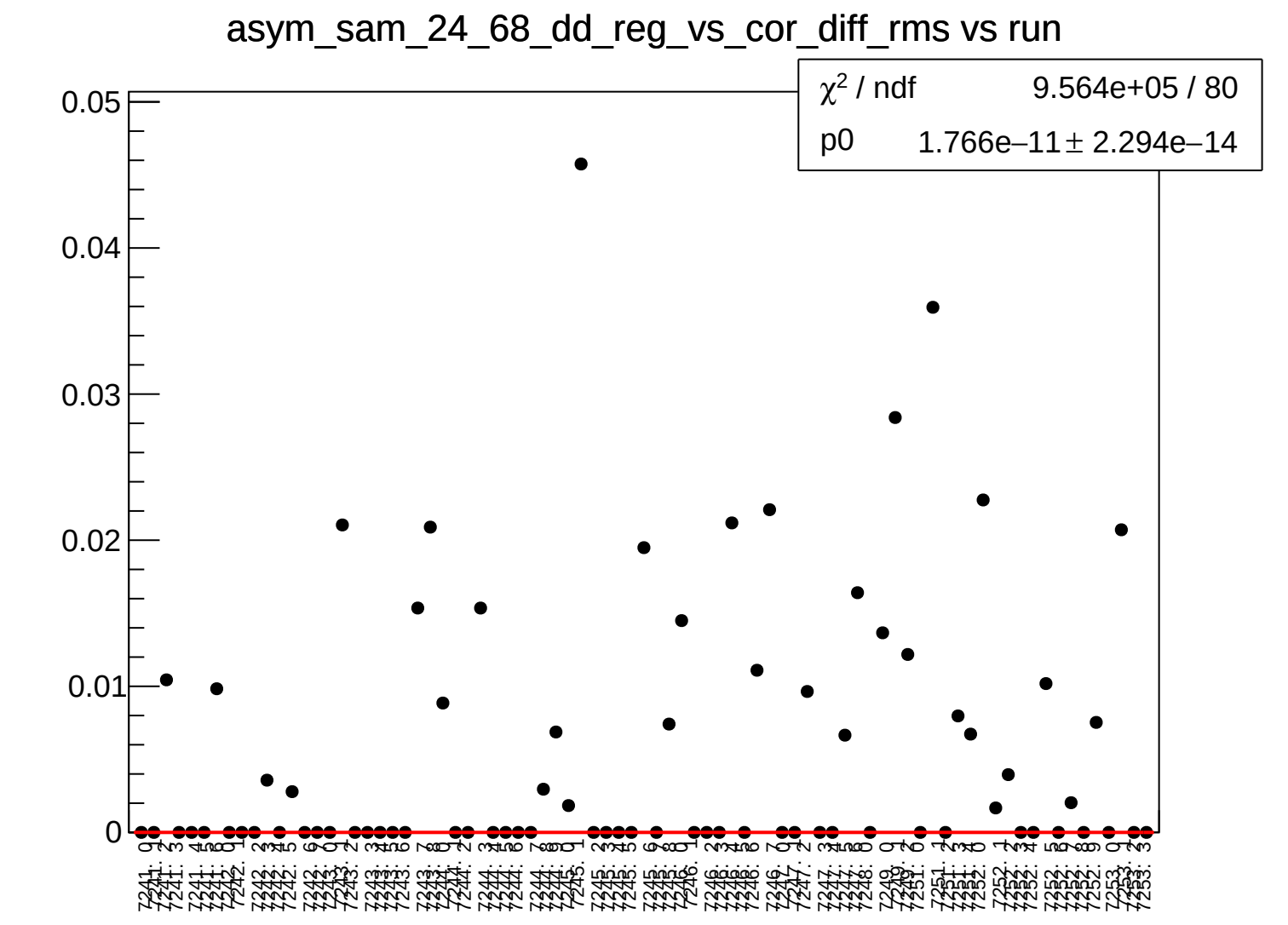

asym_sam_24_68_dd_mean vs run
χ² / ndf 86.71 / 80
p0 1403 ± 878.9
pull
Entries 81
Mean 113
Std Dev 0

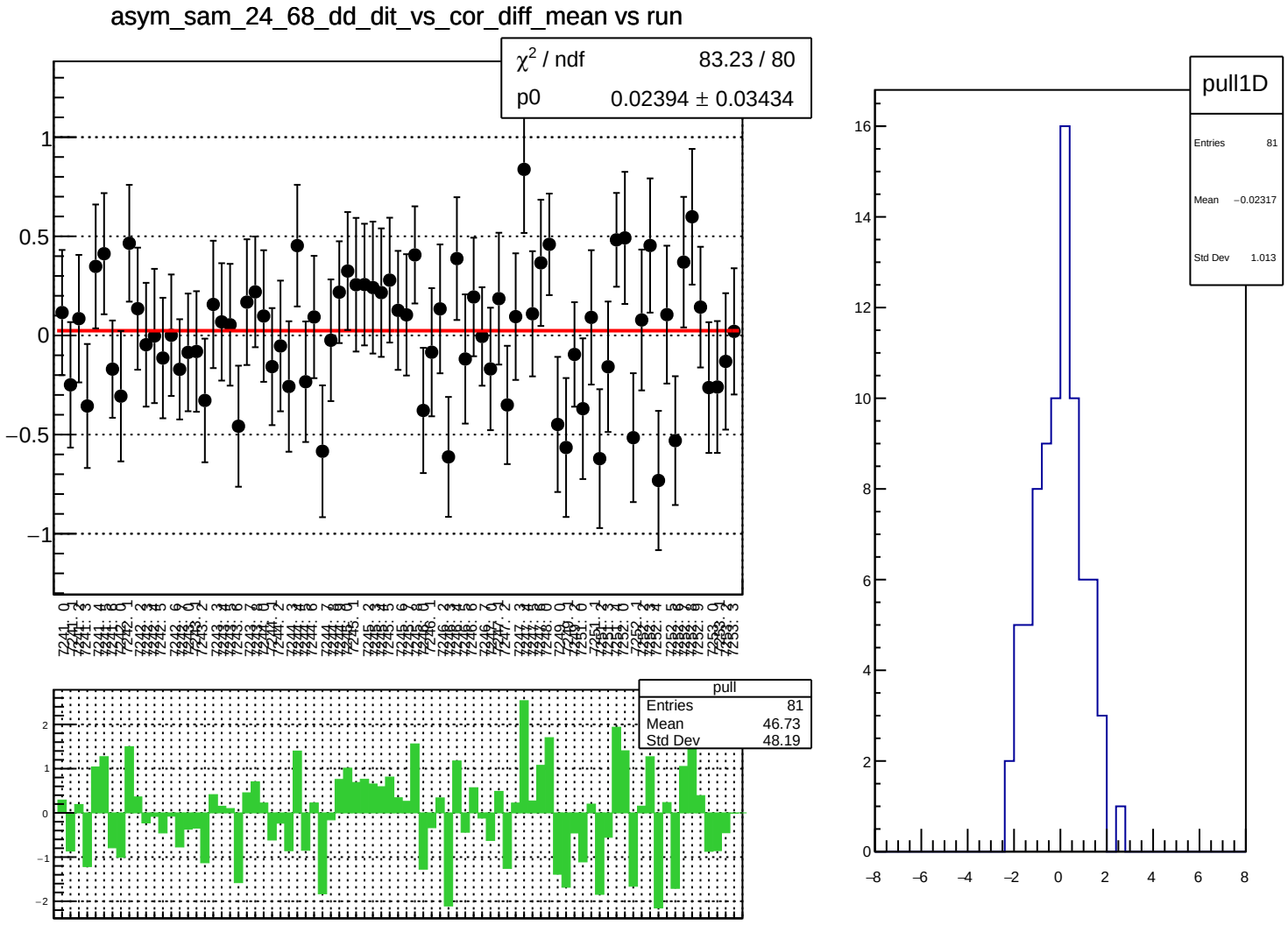

pull1D
Entries 81
Mean −0.01208
Std Dev 1.035

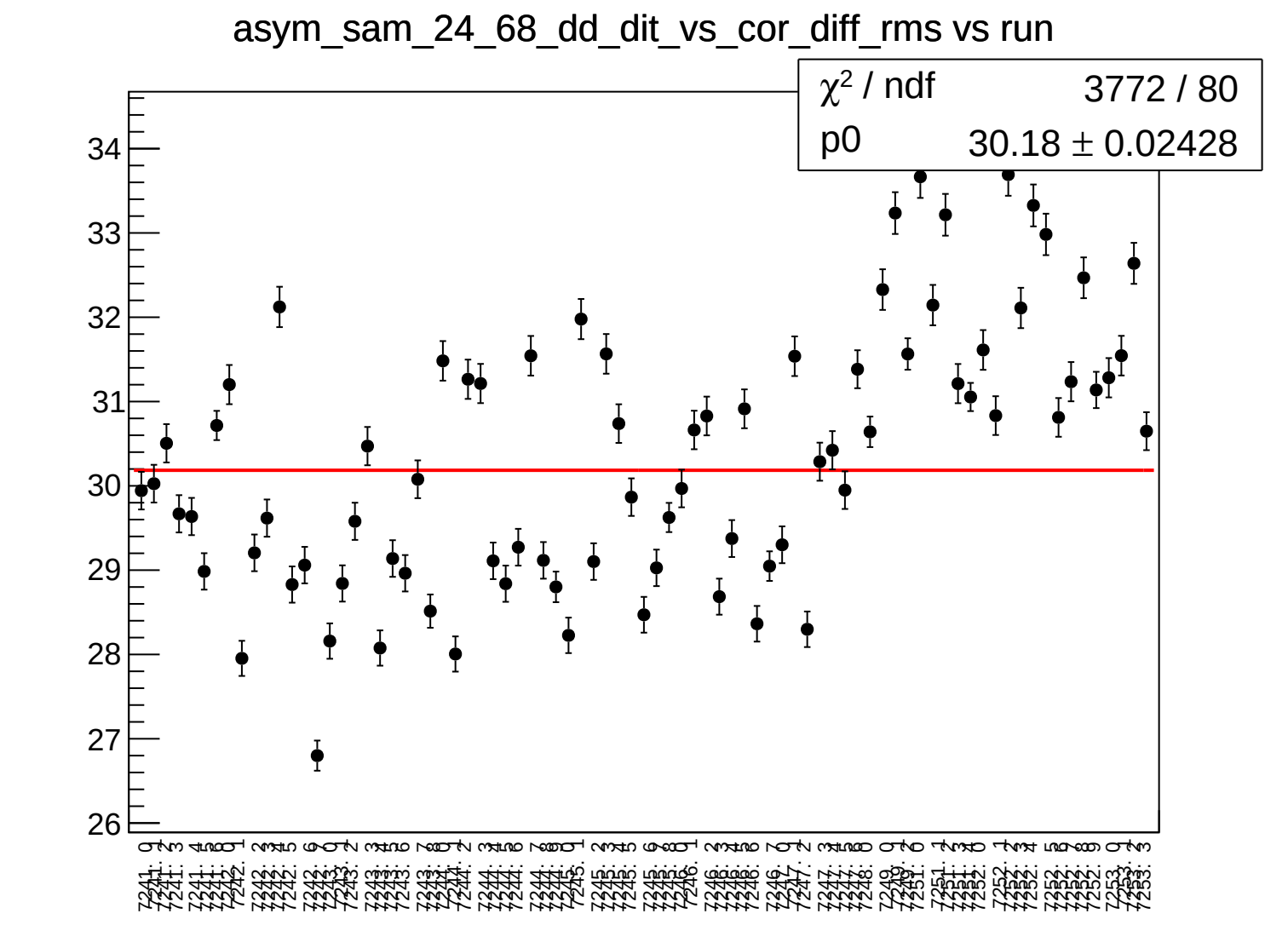

asym_sam_24_68_dd_rms vs run
χ^2 / ndf 6183 / 80
p0 772 ± 0.6215
900
850
800
750
700

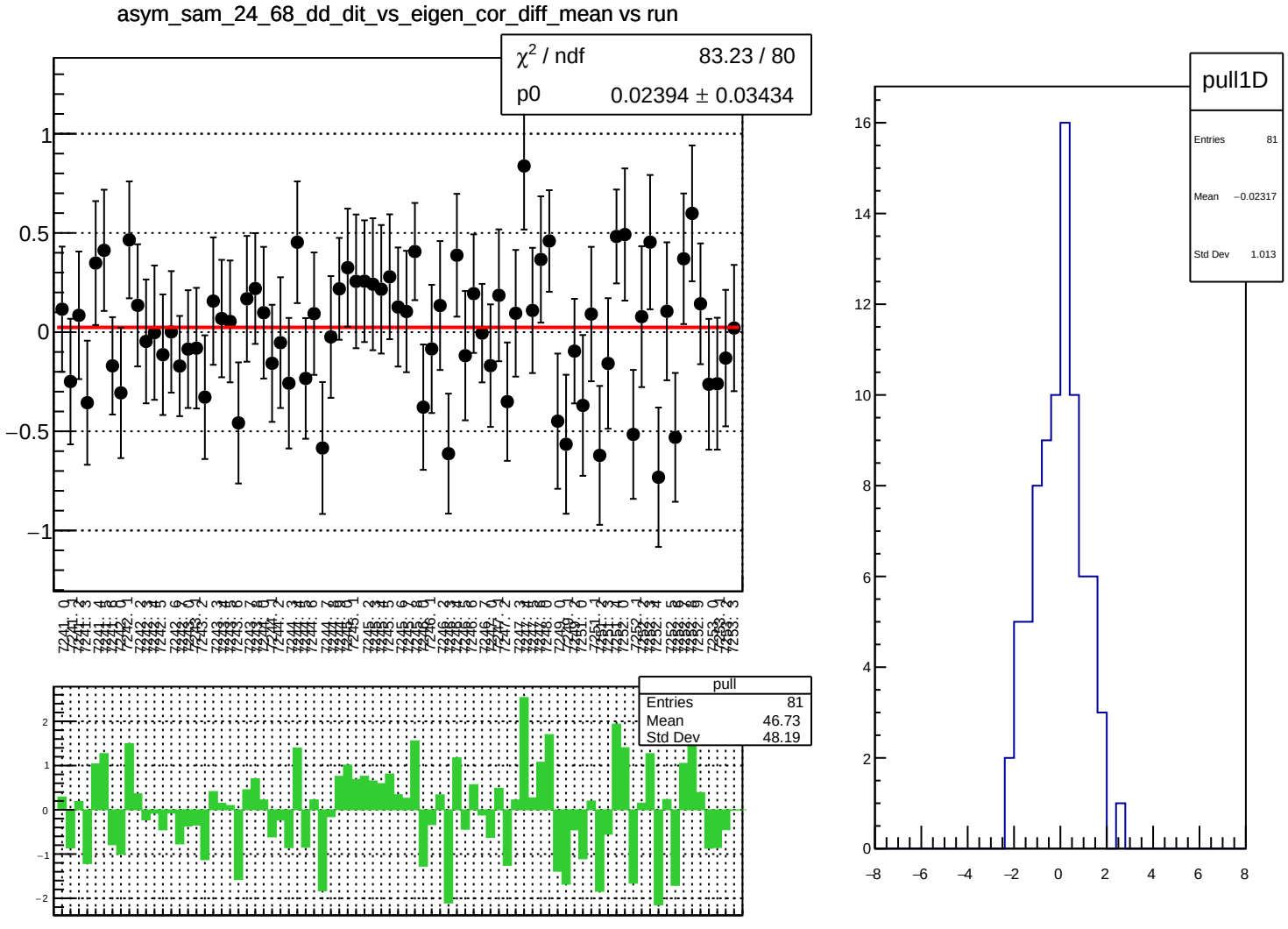

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 79.03 / 80
p0 4.583e−14 ± 3.244e−14
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 81
Mean 42.91
Std Dev 36.39
2
1
0
−1
−2

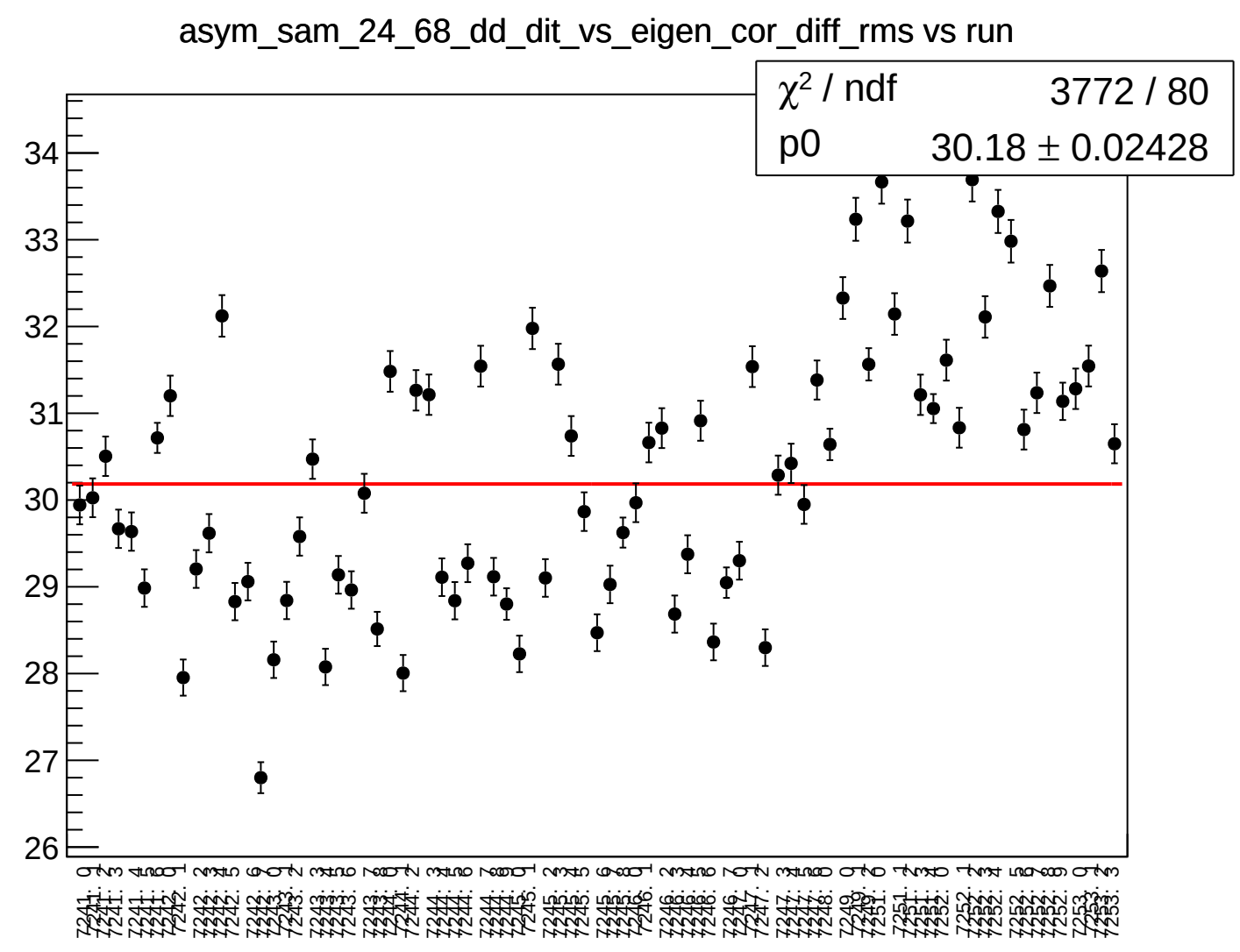

pull1D
Entries 81
Mean 0.08127
Std Dev 0.9844
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

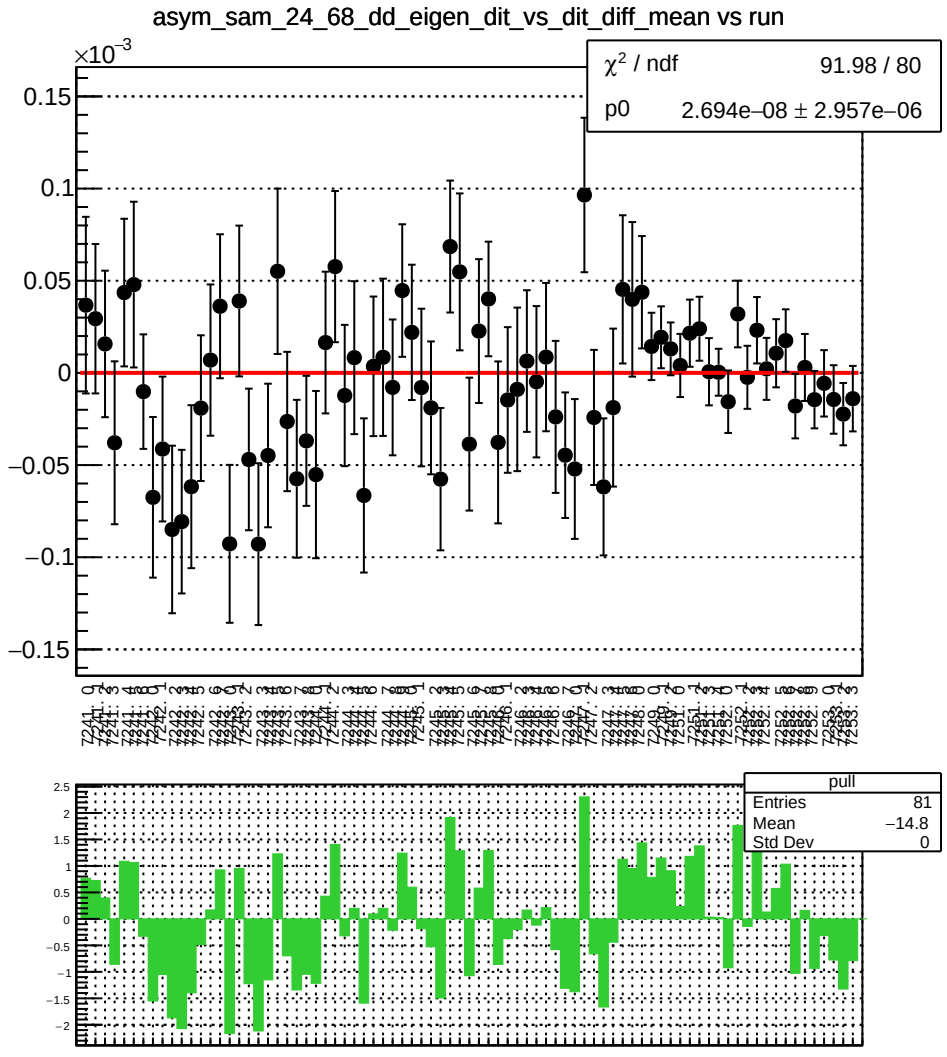

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.564e+05 / 80
p0 1.766e−11 ± 2.294e−14
0.05
0.04
0.03
0.02
0.01
0

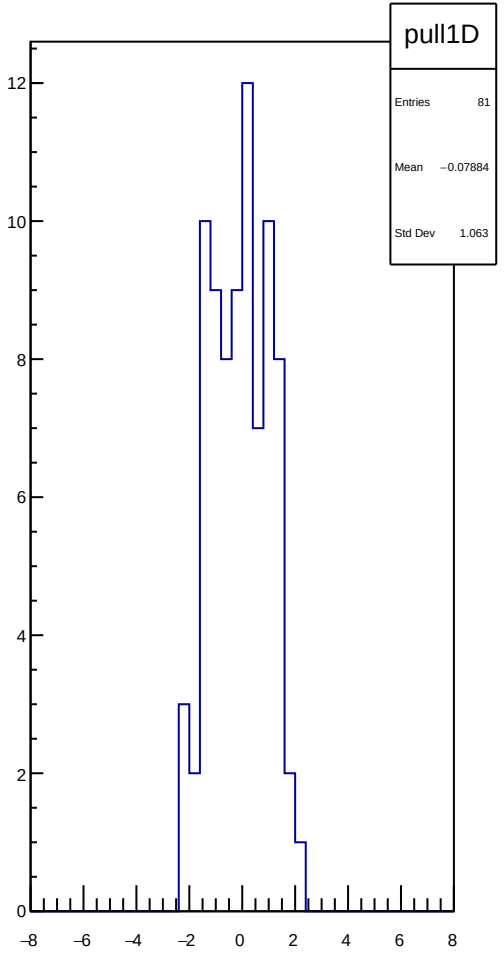

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 83.23 / 80
p0 0.02394 ± 0.03434
pull
Entries 81
Mean 46.73
Std Dev 48.19
pull1D
Entries 81
Mean −0.02317
Std Dev 1.013

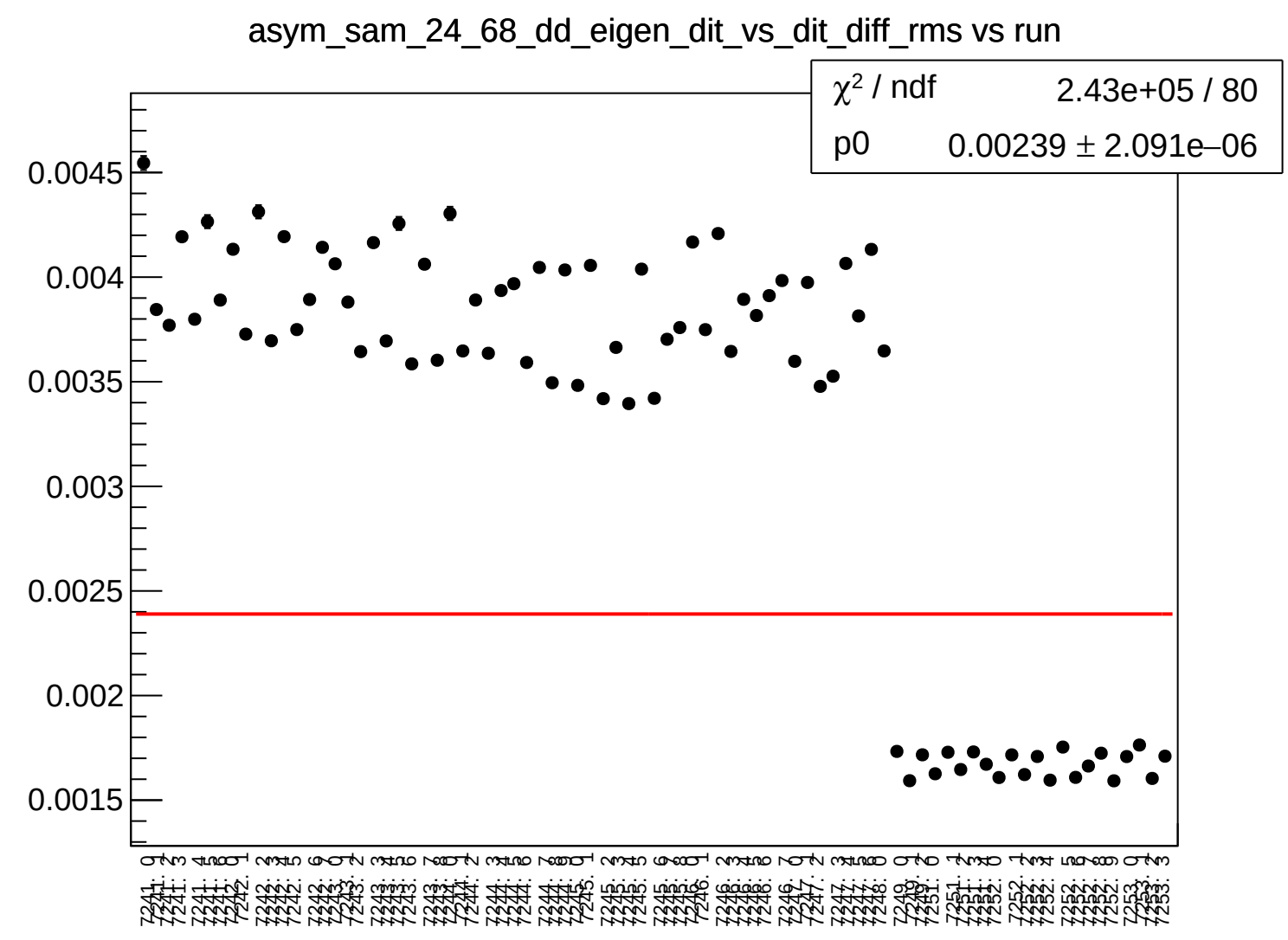

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3772 / 80
p0 30.18 ± 0.02428
34
33
32
31
30
29
28
27
26

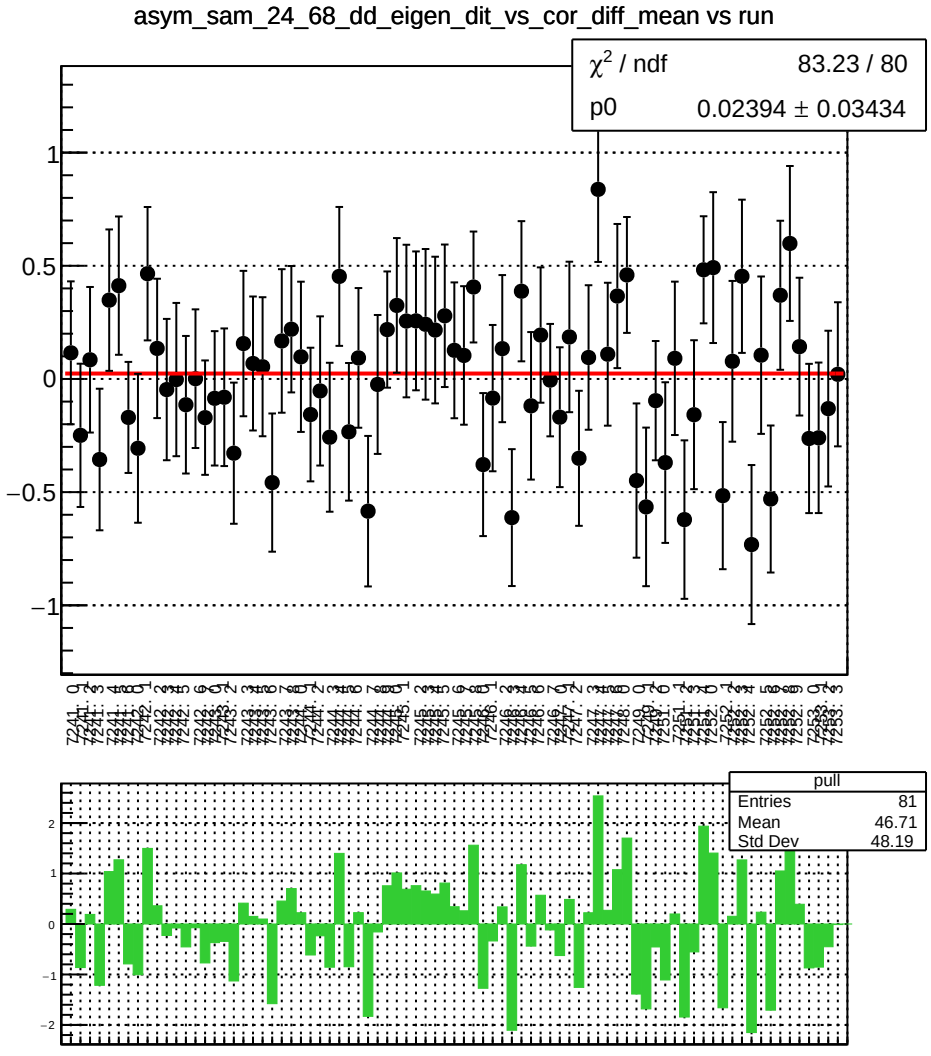

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.23 / 80
p0 0.02394 ± 0.03434
pull
Entries 81
Mean 46.73
Std Dev 48.19
pull1D
Entries 81
Mean −0.02317
Std Dev 1.013

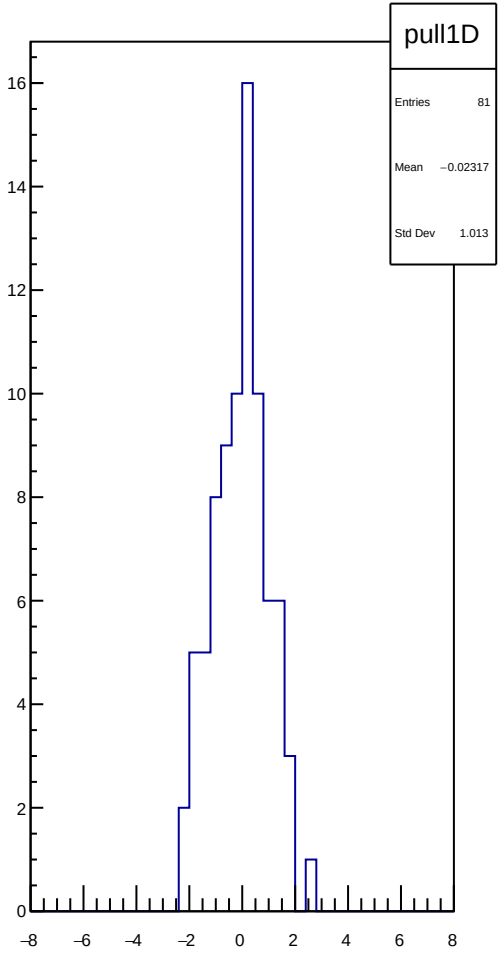

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3772 / 80
p0 30.18 ± 0.02428
34
33
32
31
30
29
28
27
26

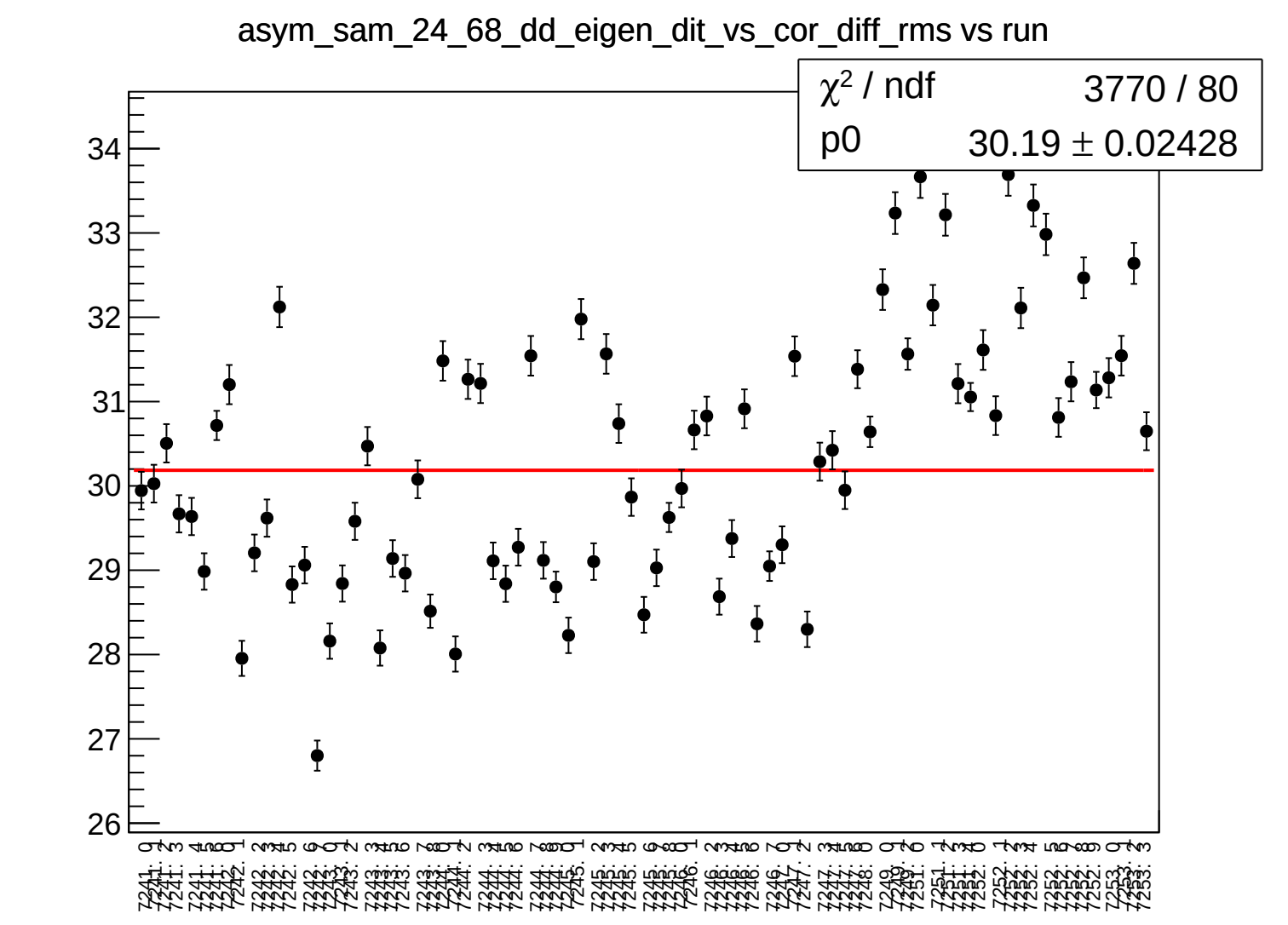

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.98 / 80
p0 2.694e−08 ± 2.957e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 81
Mean −14.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 81
Mean −0.07884
Std Dev 1.063
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

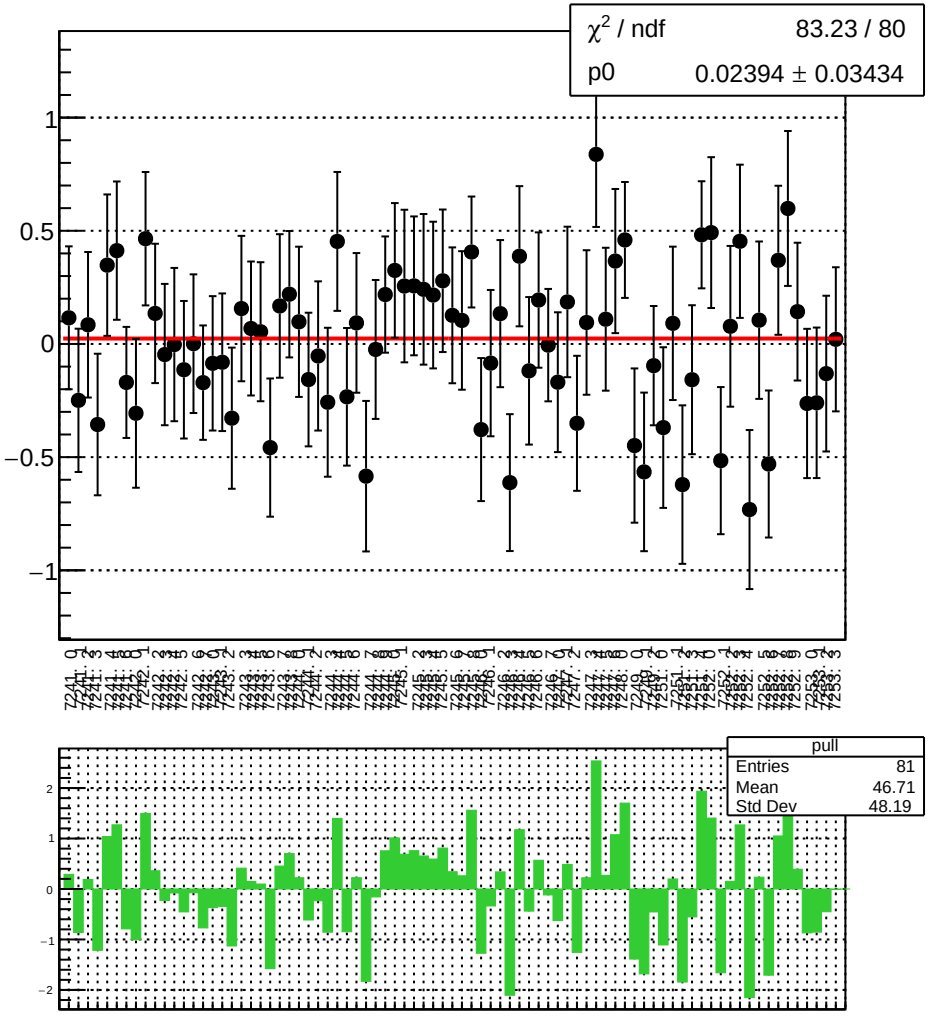

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.43e+05 / 80
p0 0.00239 ± 2.091e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015

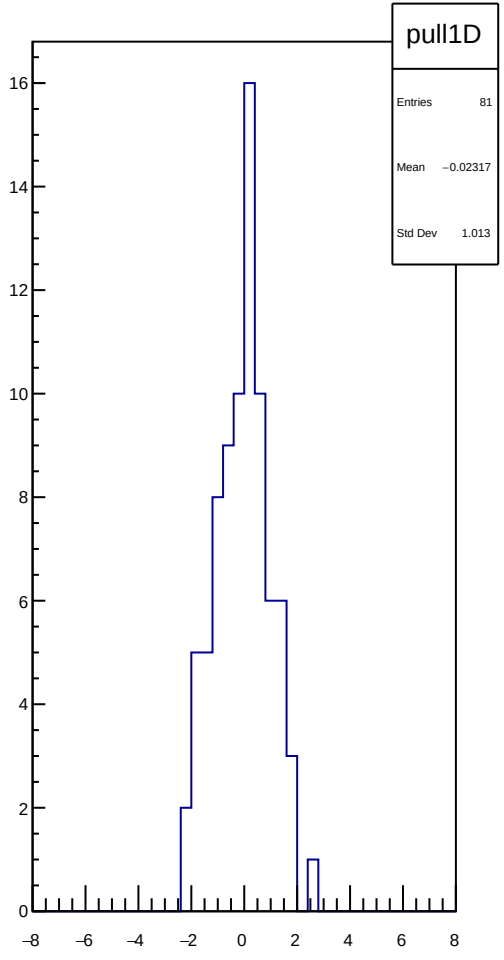

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.23 / 80
p0 0.02394 ± 0.03434
pull
Entries 81
Mean 46.71
Std Dev 48.19

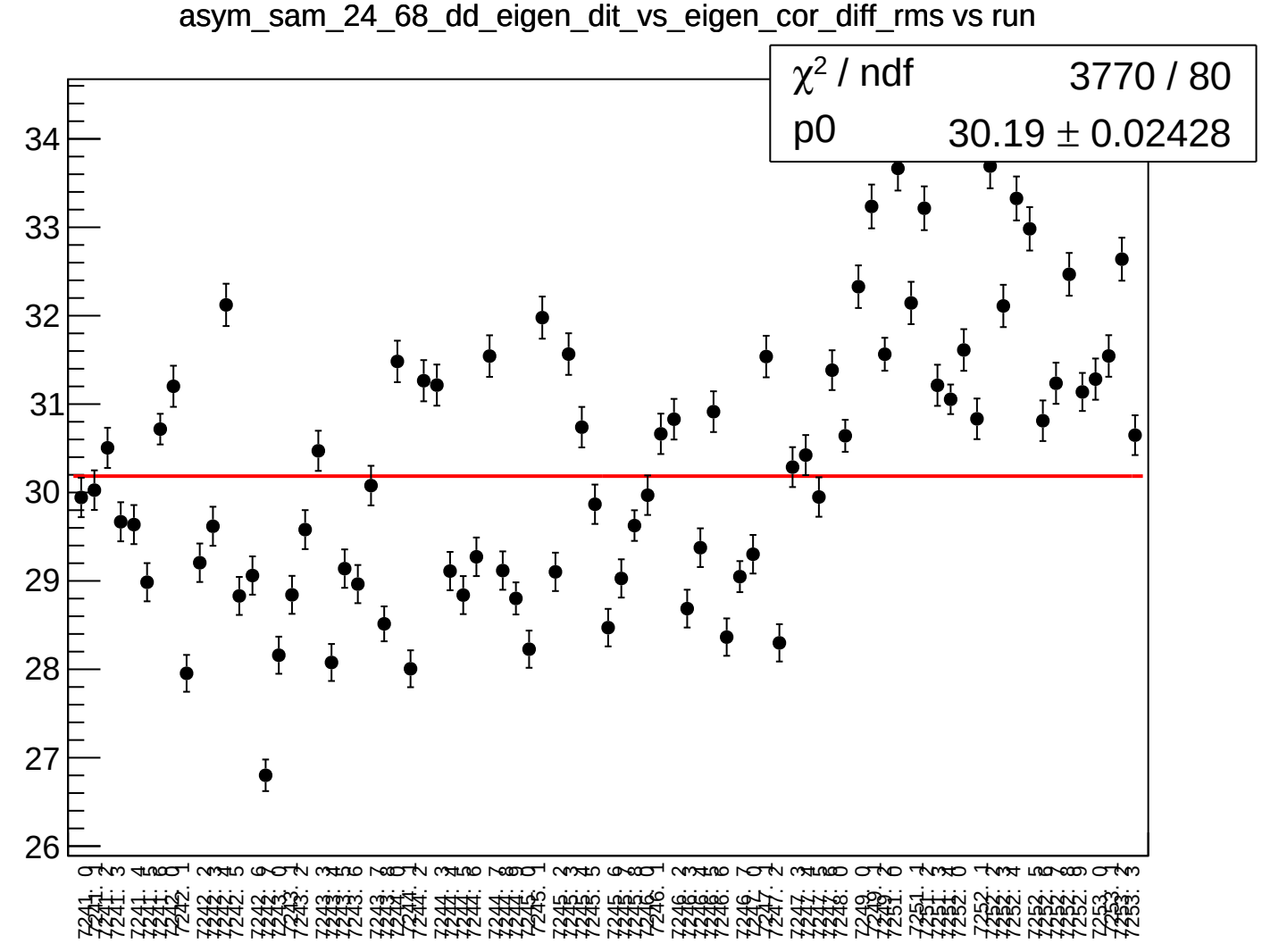

pull1D
Entries 81
Mean −0.02317
Std Dev 1.013

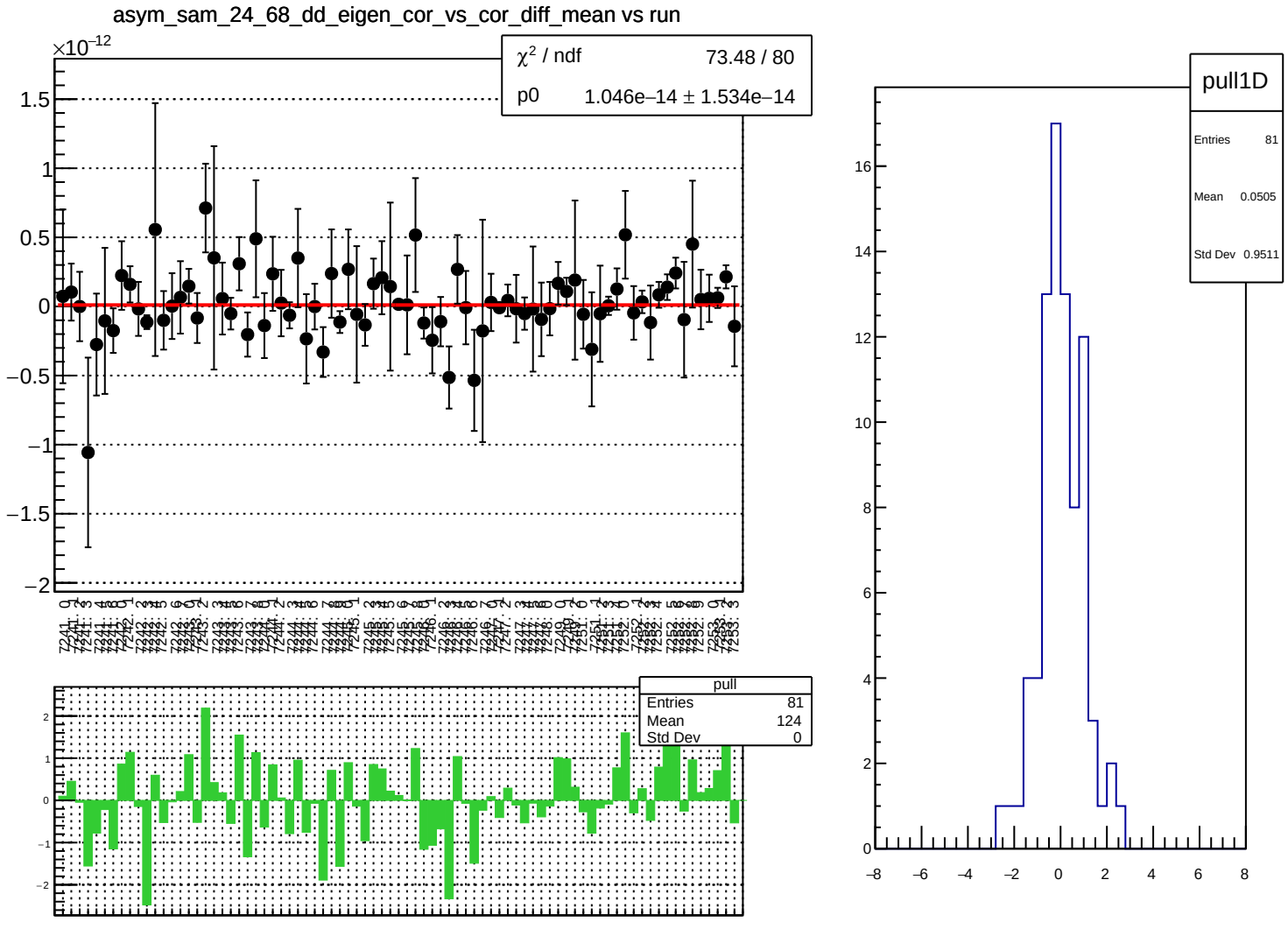

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3770 / 80
p0 30.19 ± 0.02428
34
33
32
31
30
29
28
27
26

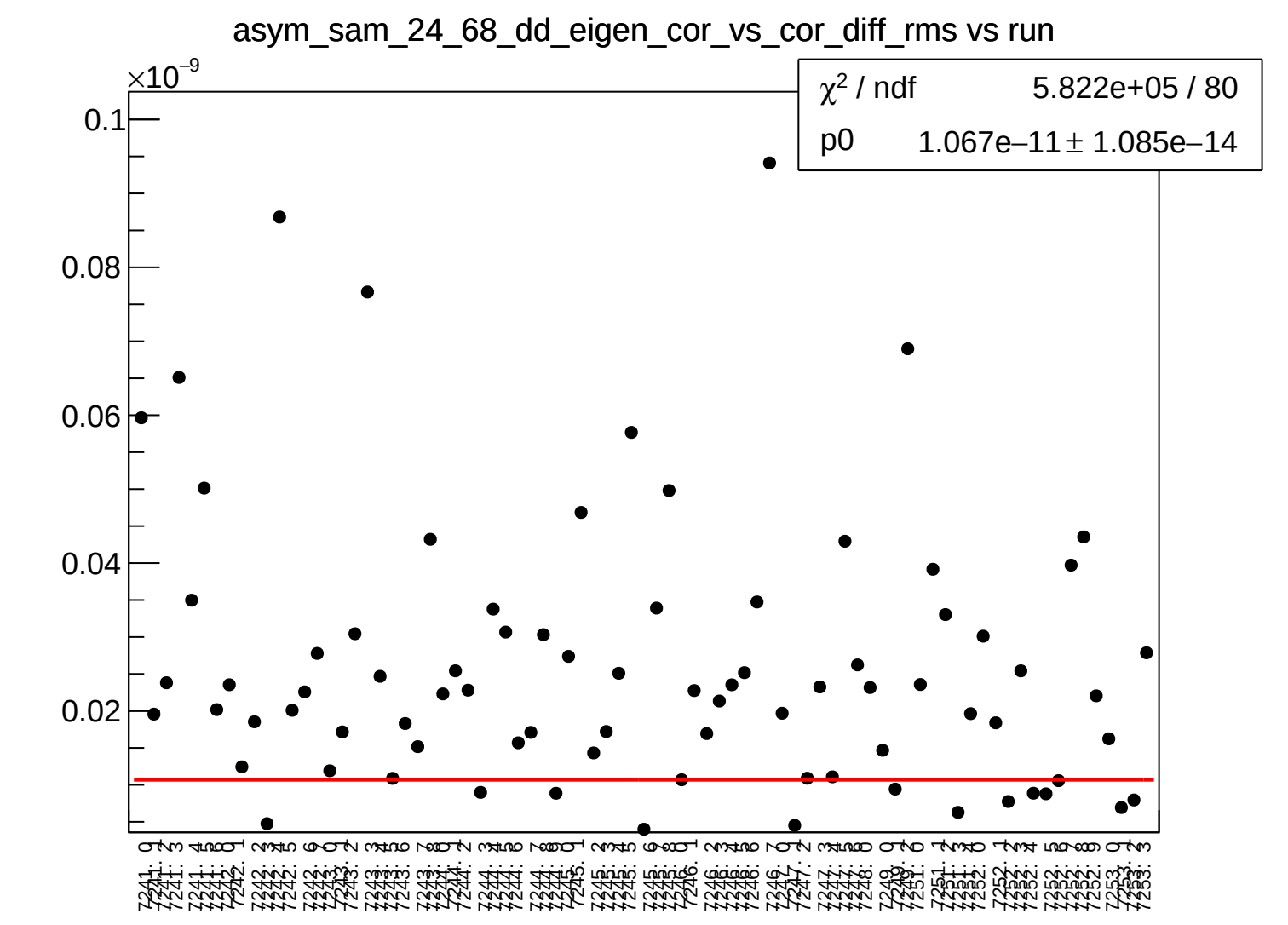
asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

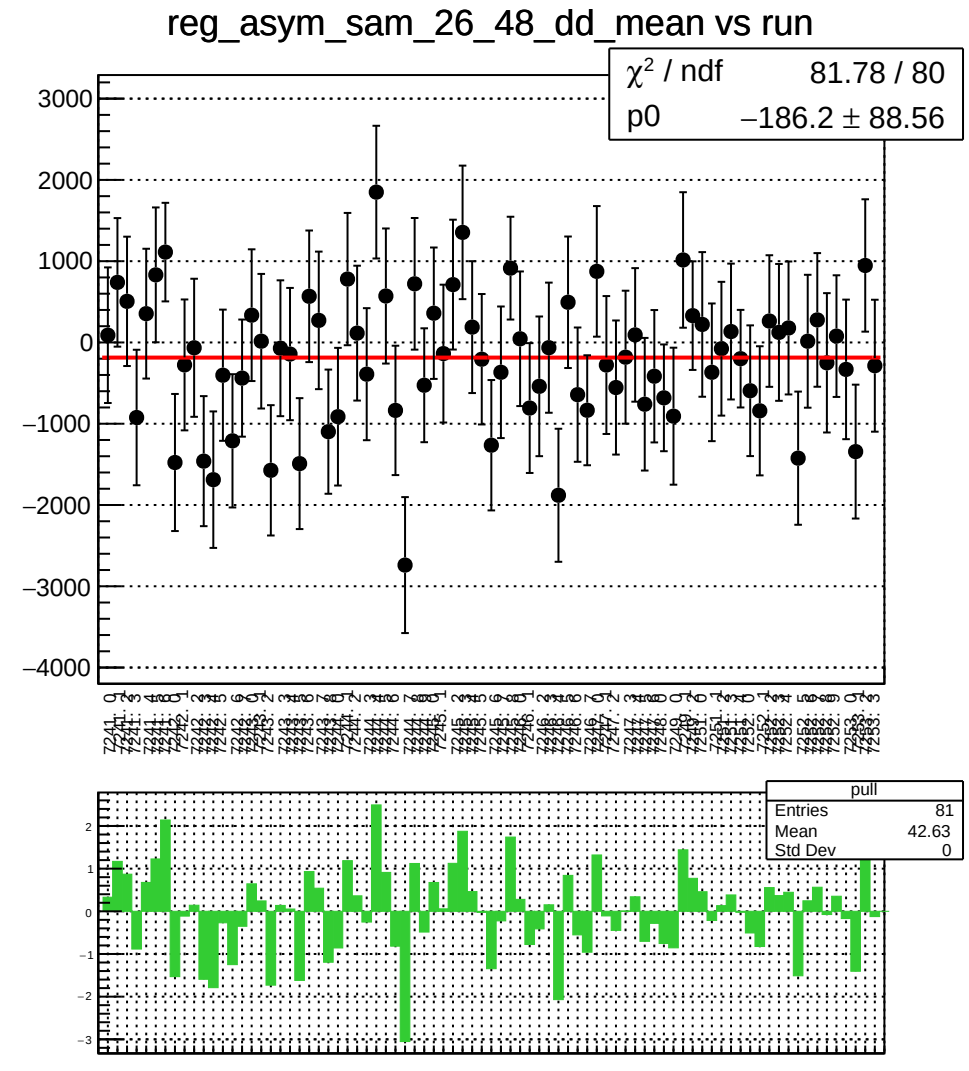


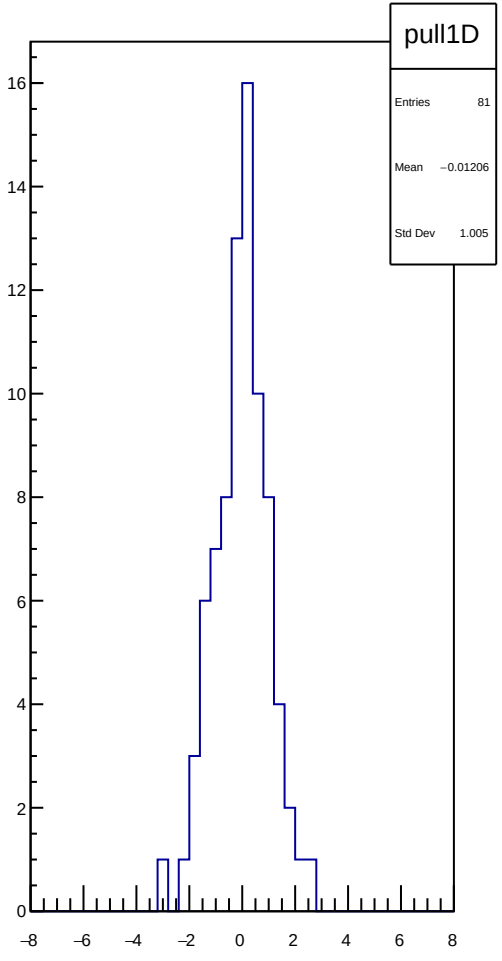


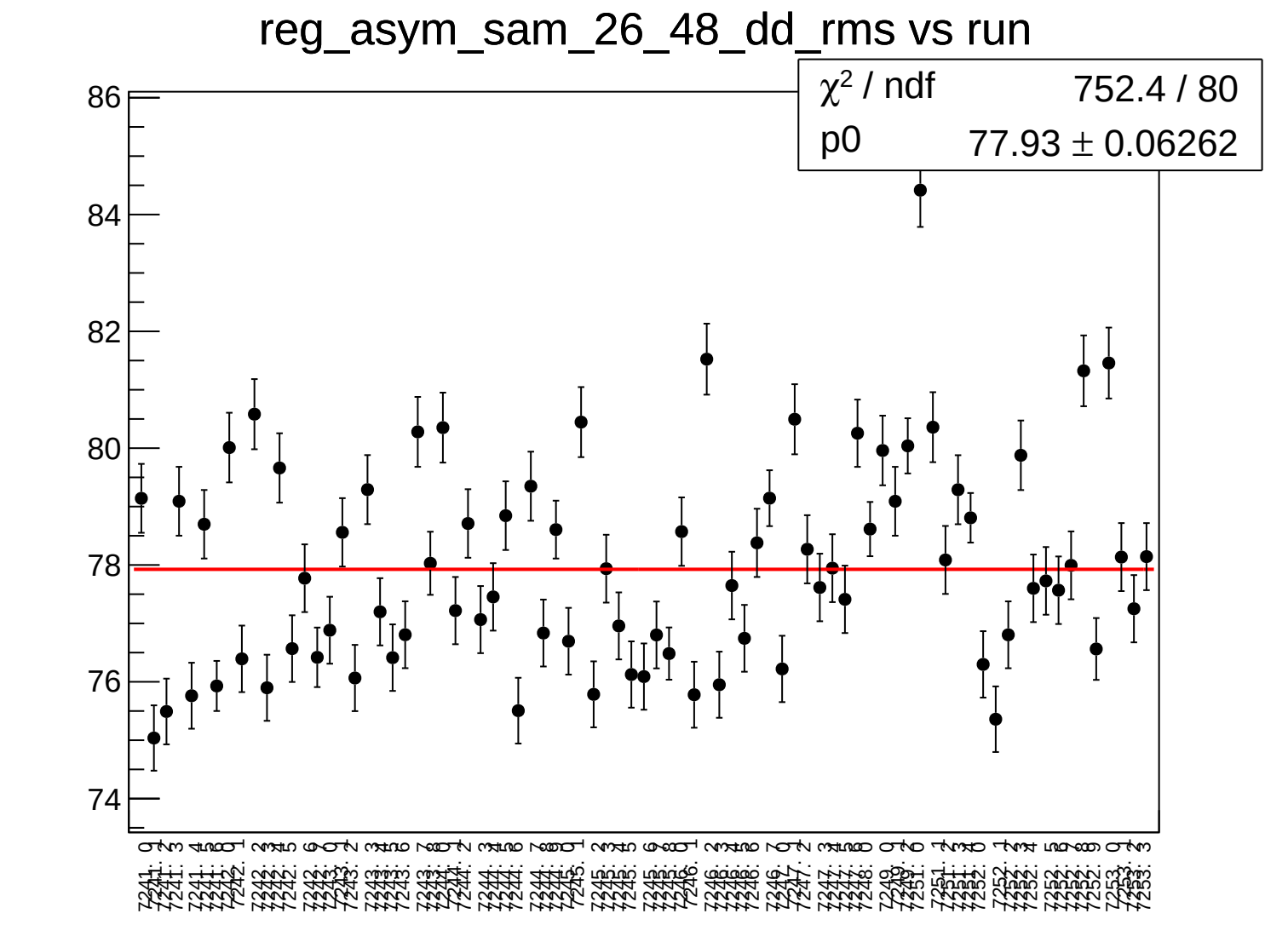

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3770 / 80
p0 30.19 ± 0.02428
34
33
32
31
30
29
28
27
26

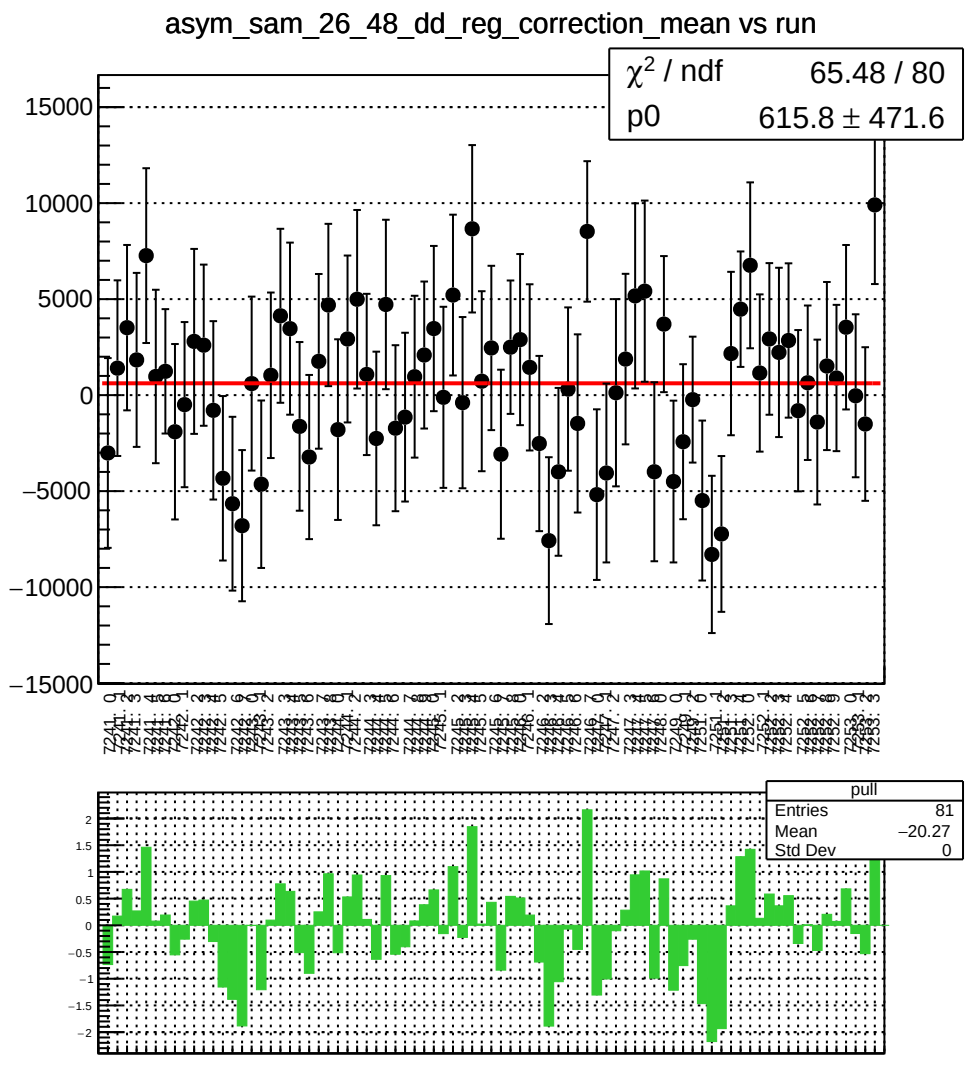

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.48 / 80
p0 1.046e−14 ± 1.534e−14
pull
Entries 81
Mean 124
Std Dev 0
pull1D
Entries 81
Mean 0.0505
Std Dev 0.9511

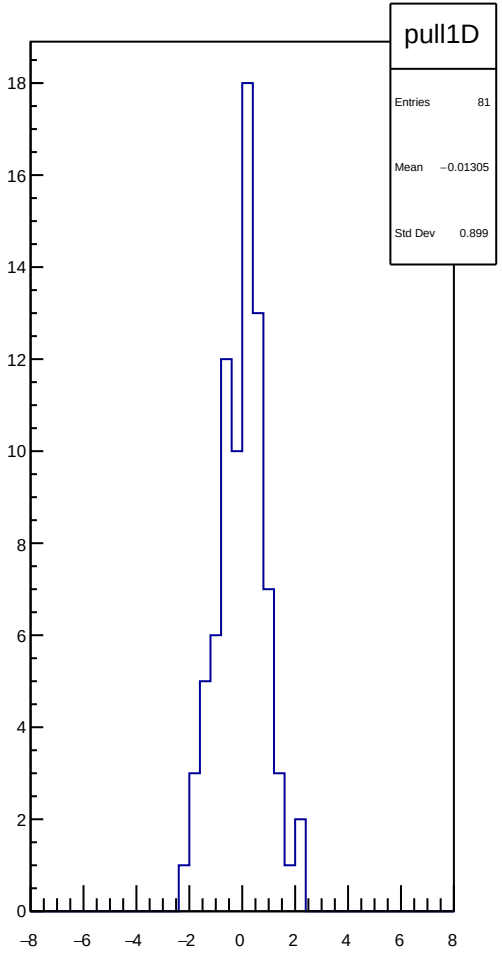

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.1
0.08
0.06
0.04
0.02
χ² / ndf 5.822e+05 / 80
p0 1.067e−11 ± 1.085e−14

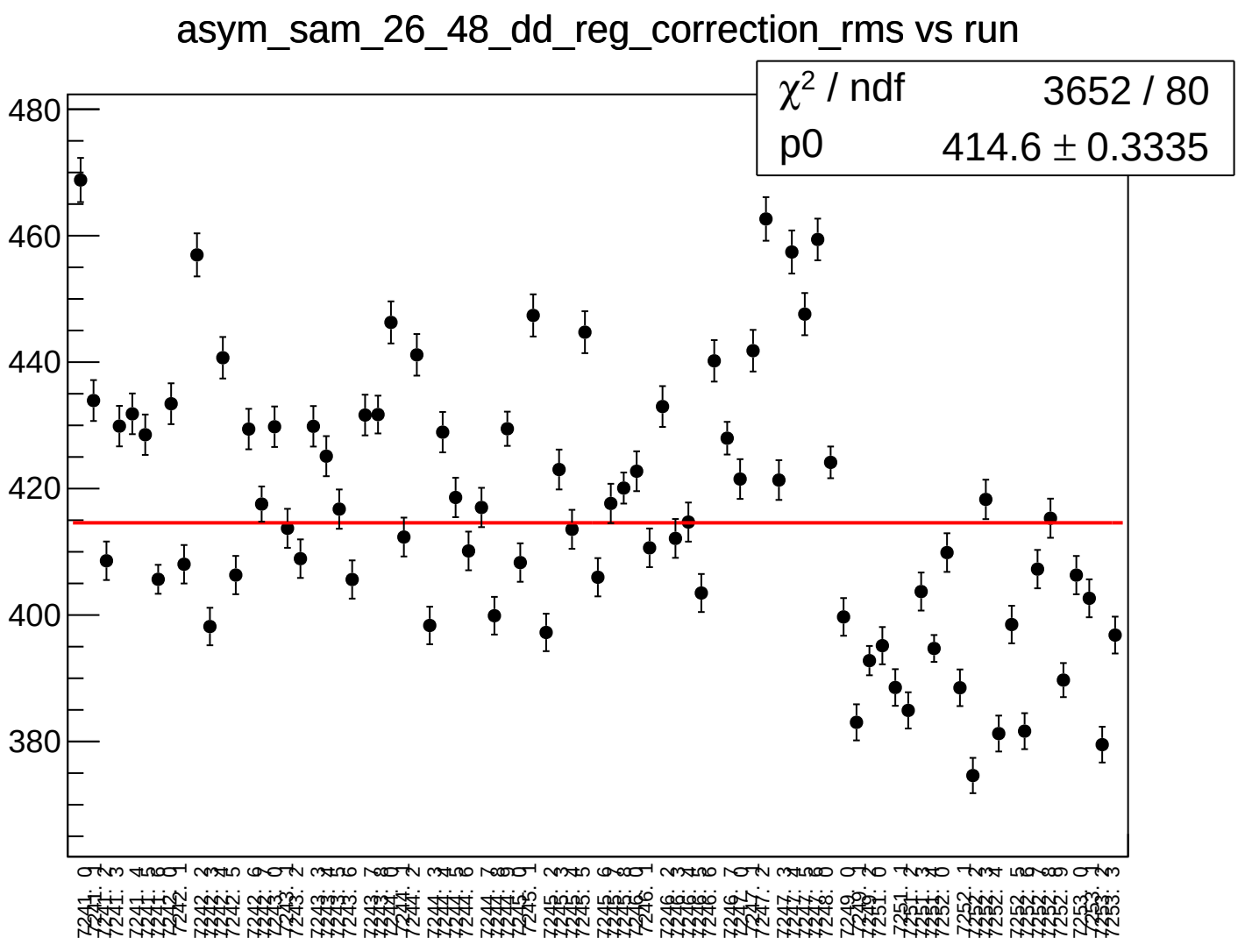

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 81.78 / 80
p0 −186.2 ± 88.56
pull
Entries 81
Mean 42.63
Std Dev 0

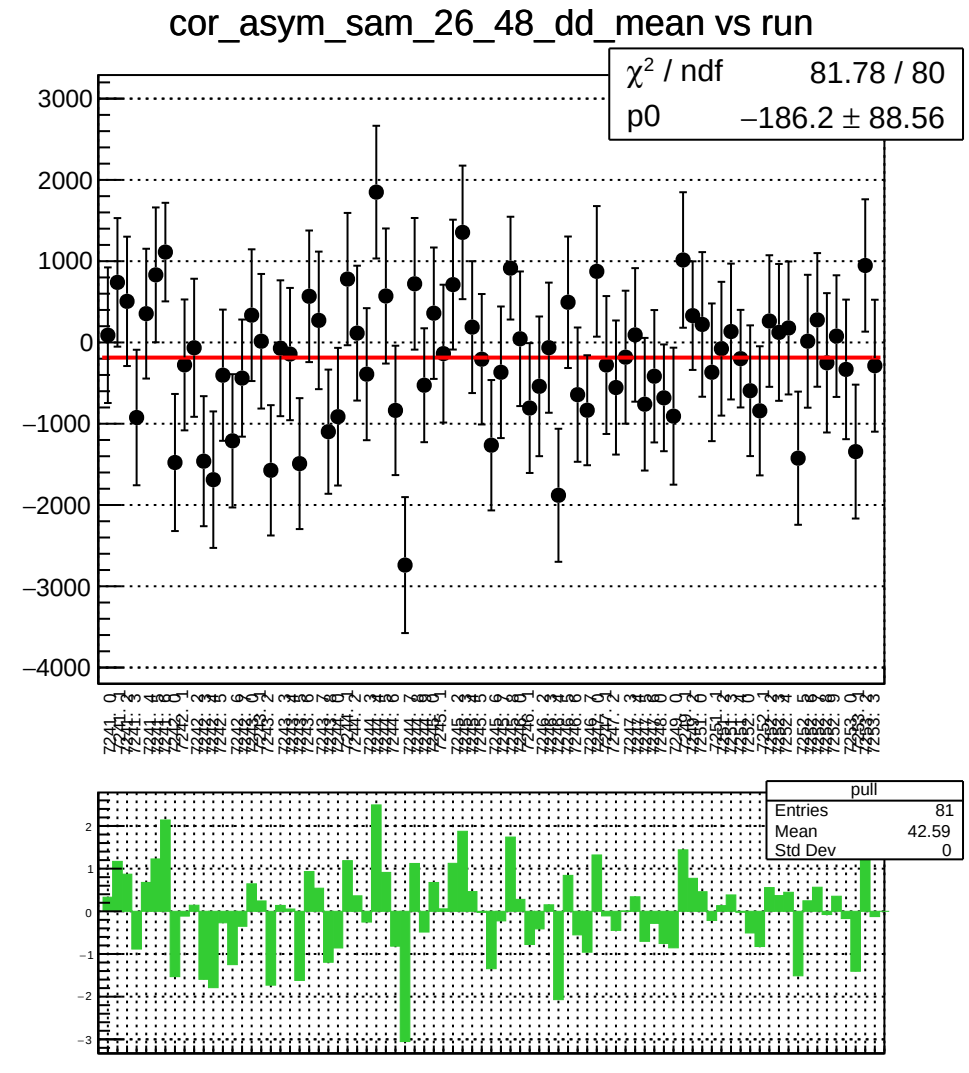

pull1D
Entries 81
Mean −0.01206
Std Dev 1.005

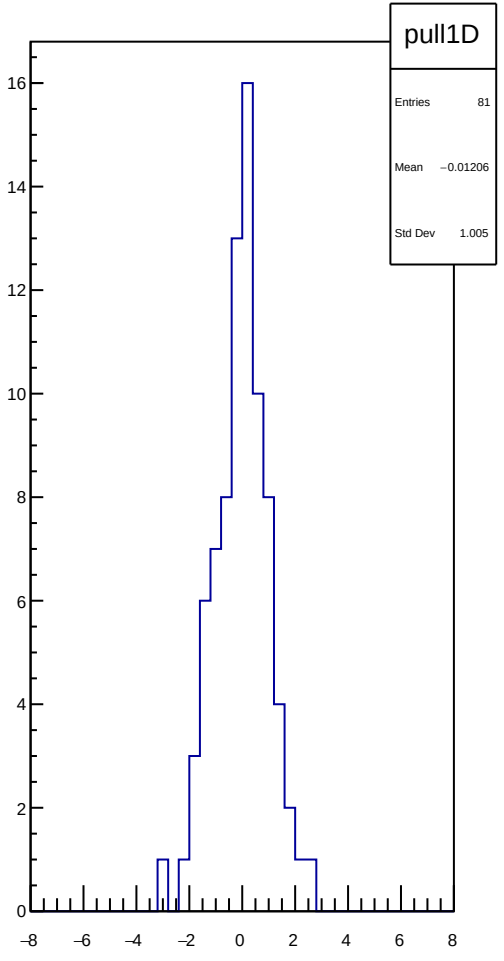

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 752.4 / 80
p0 77.93 ± 0.06262
86
84
82
80
78
76
74

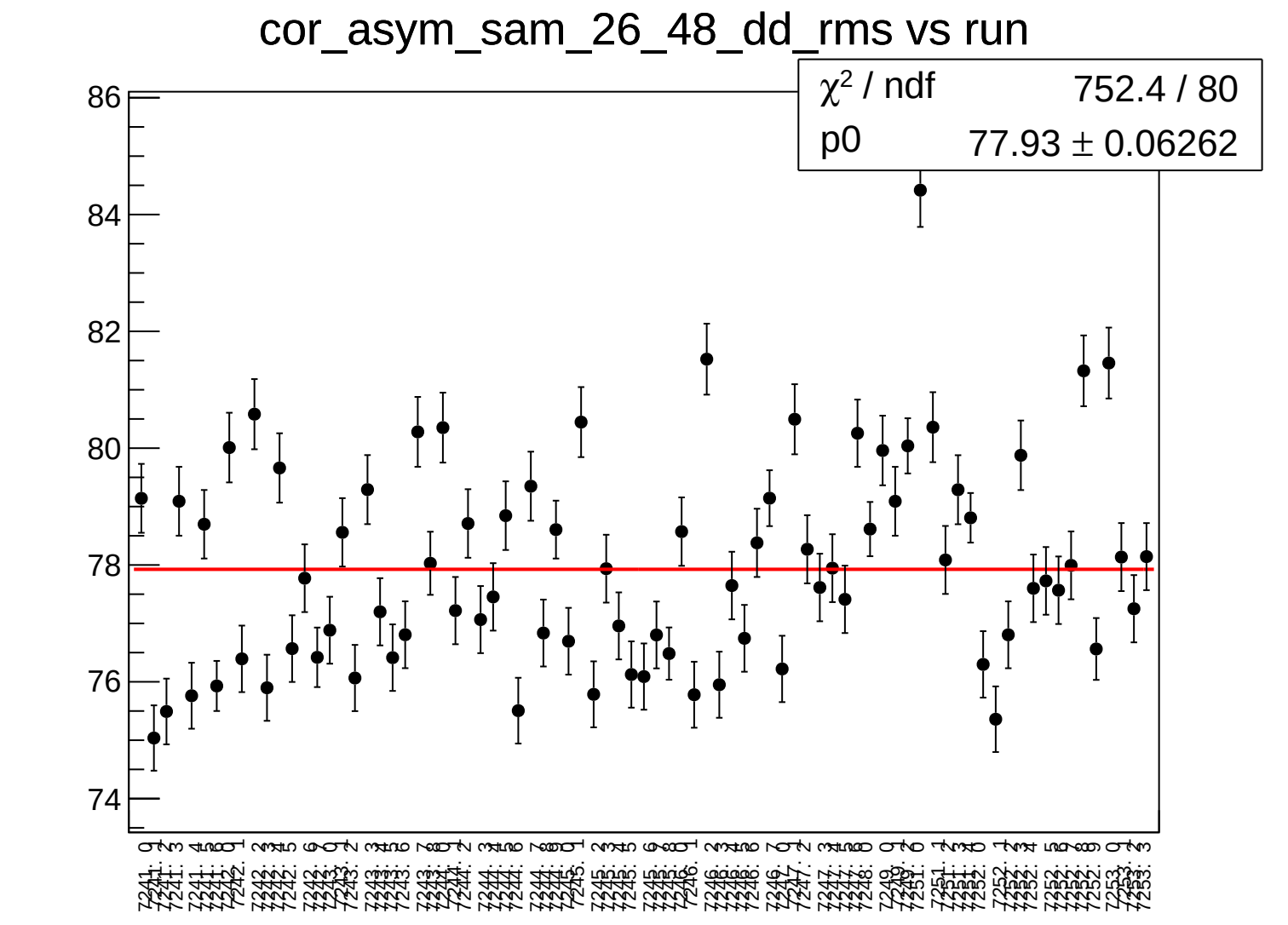

asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 65.48 / 80
p0 615.8 ± 471.6
pull
Entries 81
Mean −20.27
Std Dev 0

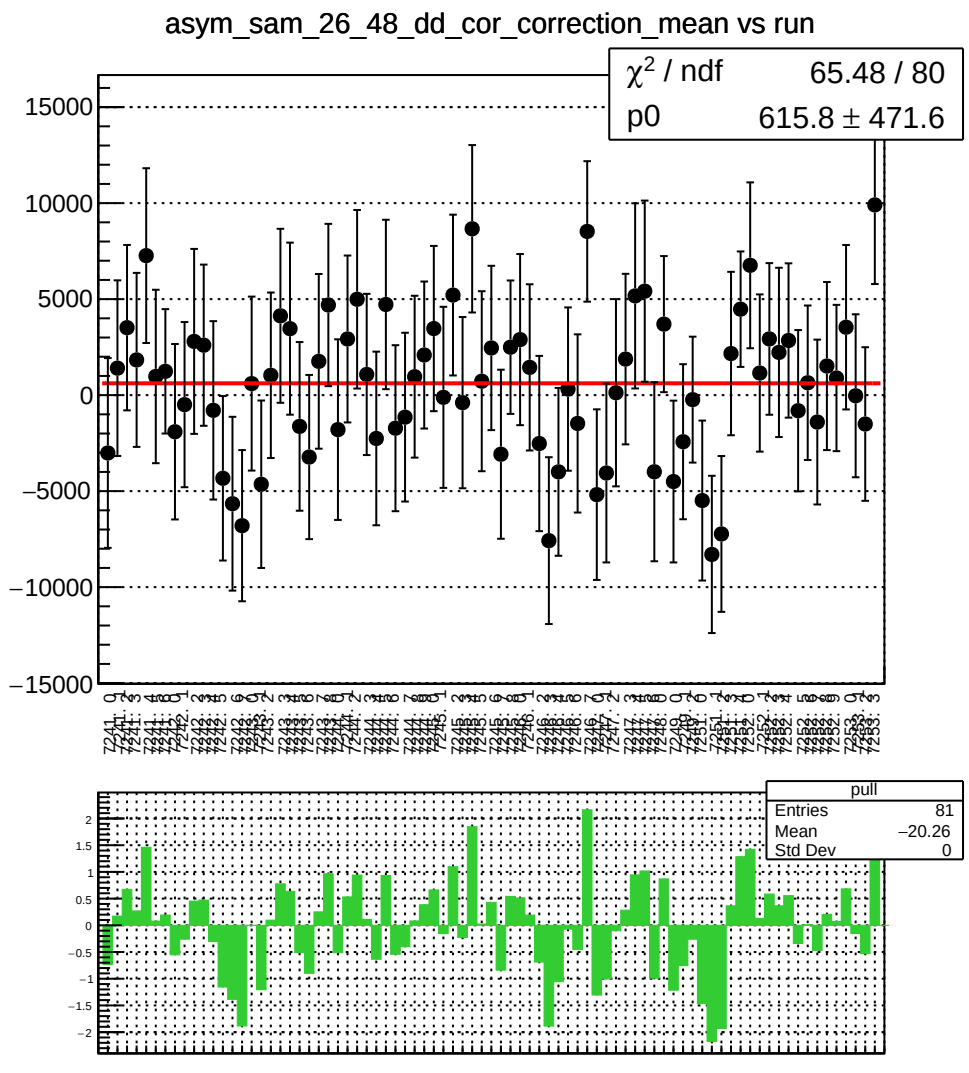

pull1D
Entries 81
Mean −0.01305
Std Dev 0.899

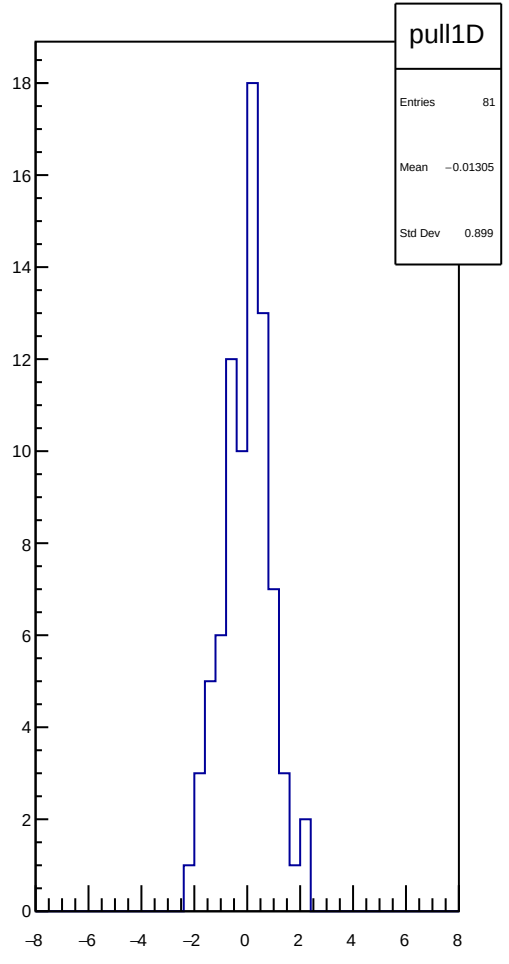

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 3652 / 80
p0 414.6 ± 0.3335
480
460
440
420
400
380

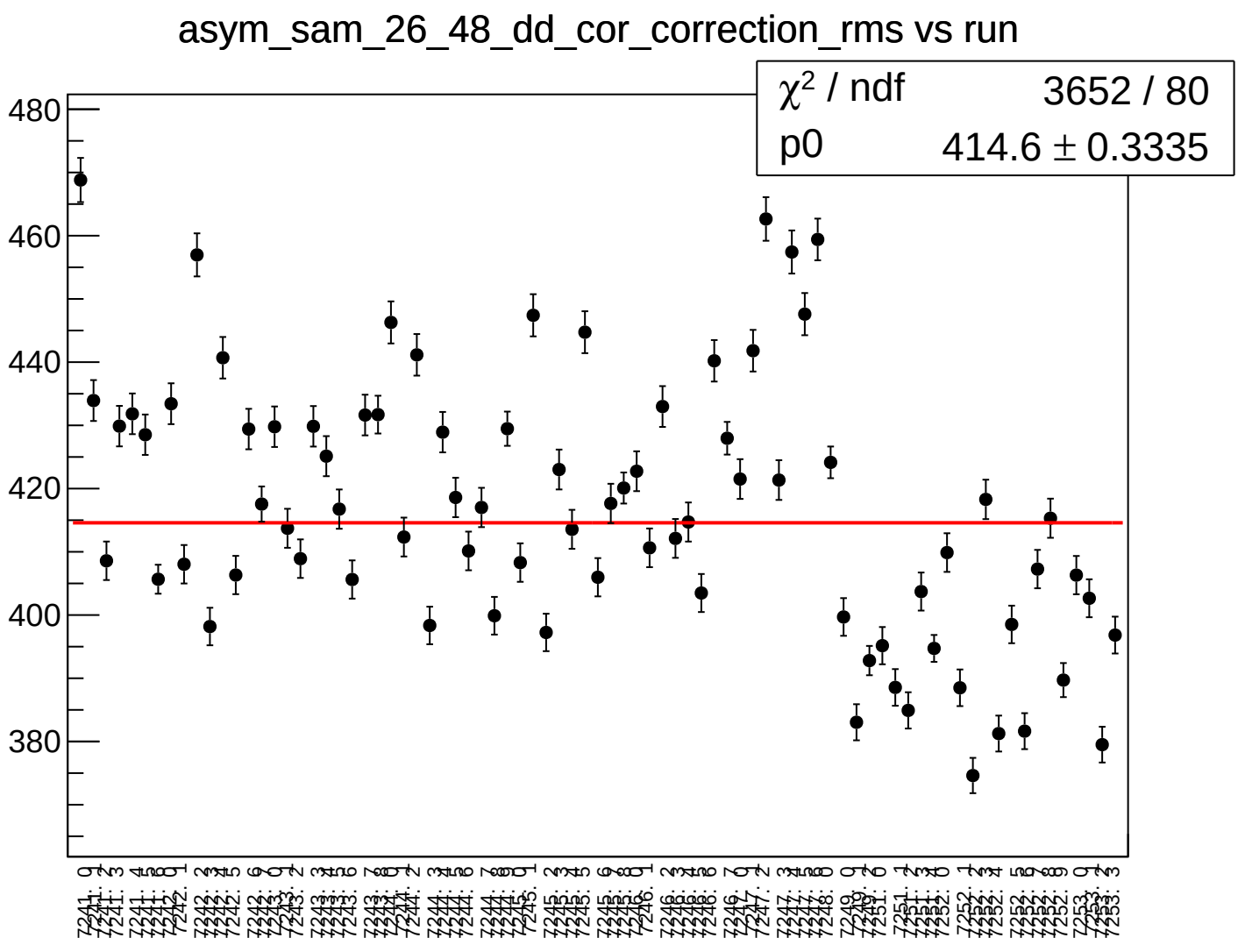

cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 81.78 / 80
p0 −186.2 ± 88.56
pull
Entries 81
Mean 42.59
Std Dev 0

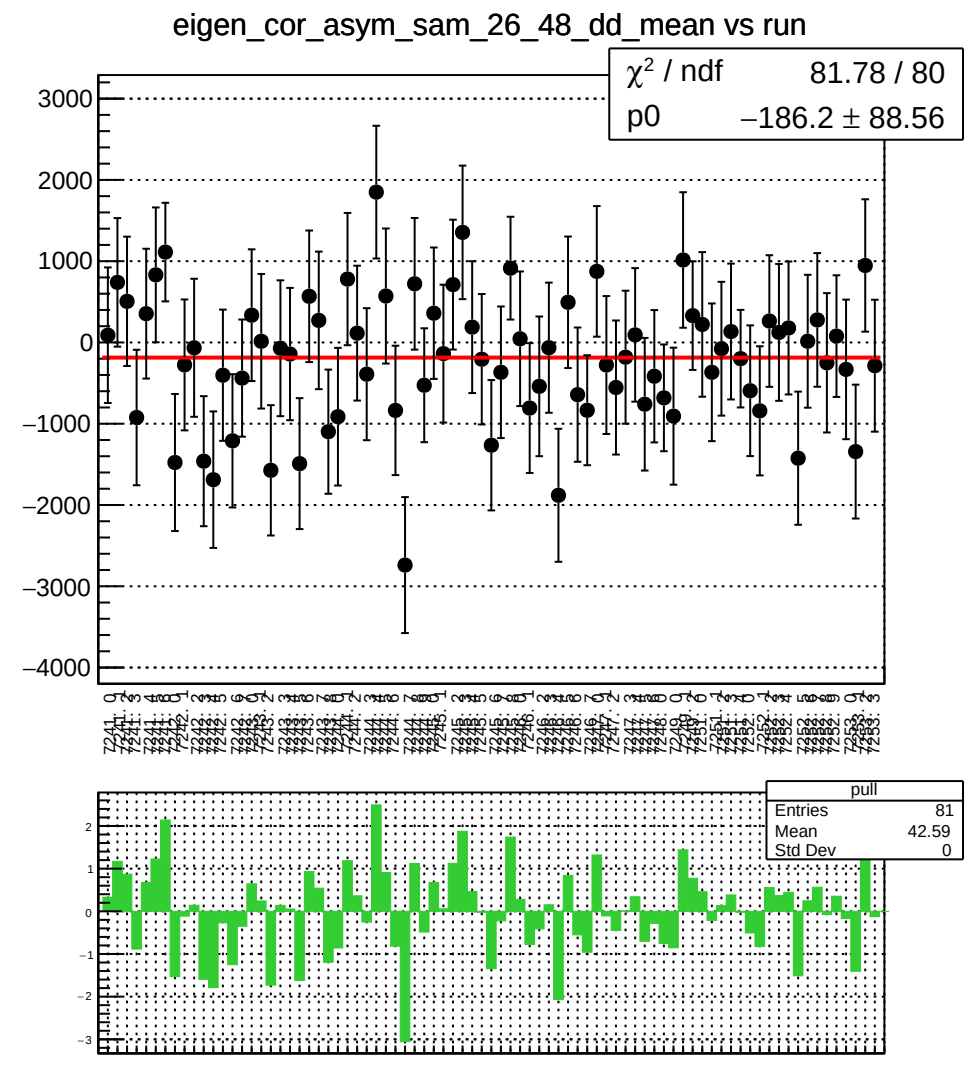

pull1D
Entries 81
Mean −0.01206
Std Dev 1.005

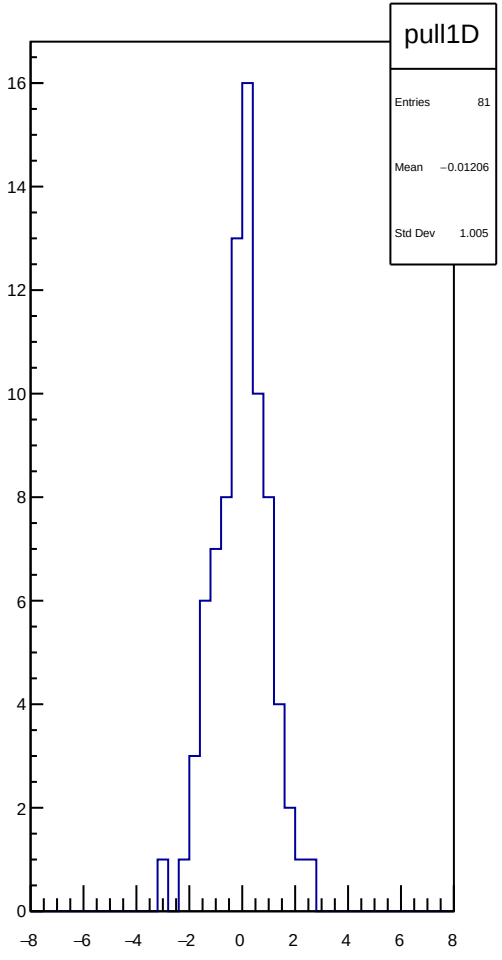

cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 752.4 / 80
p0 77.93 ± 0.06262
86
84
82
80
78
76
74

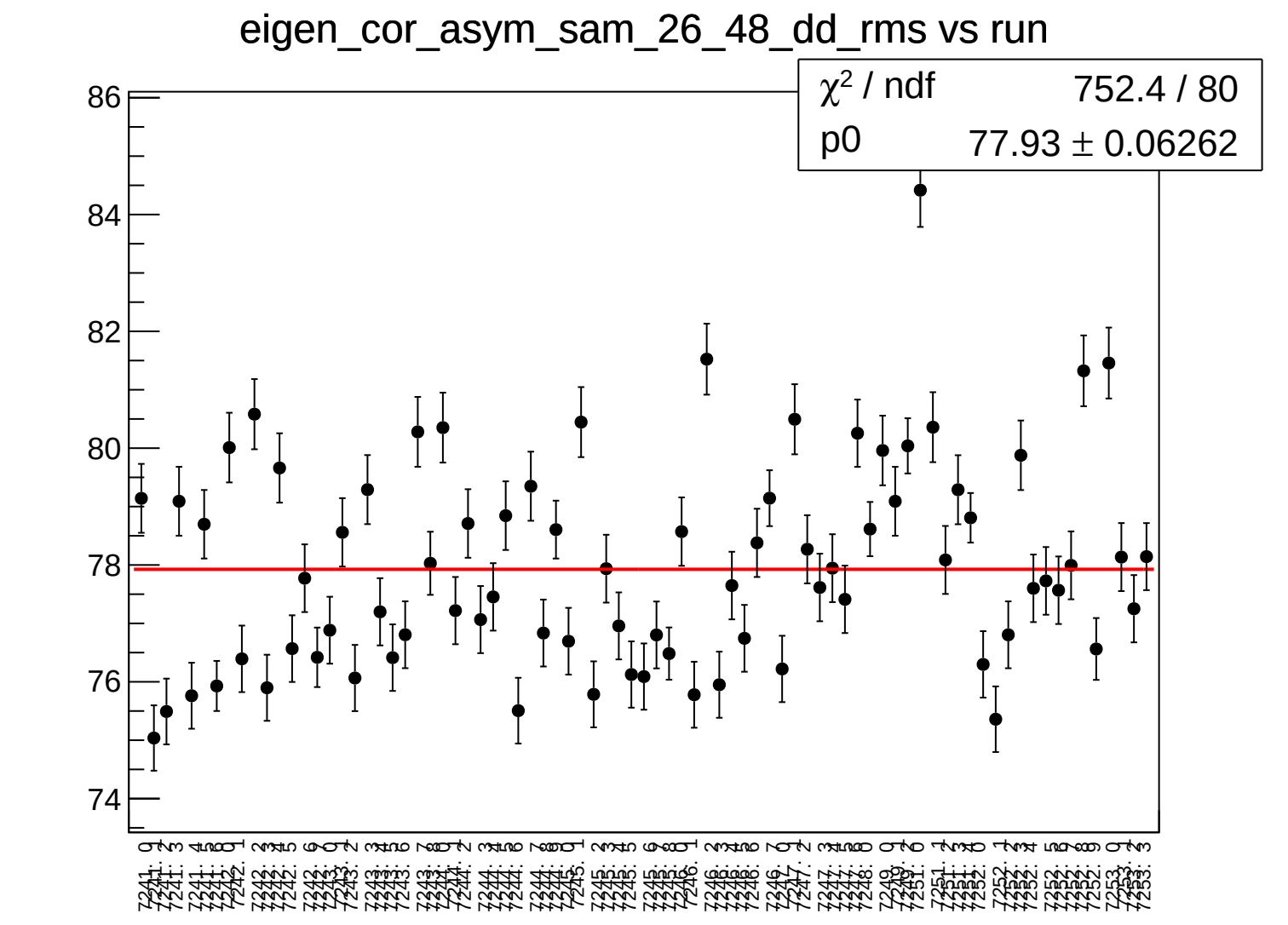

asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 65.48 / 80
p0 615.8 ± 471.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean −20.26
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

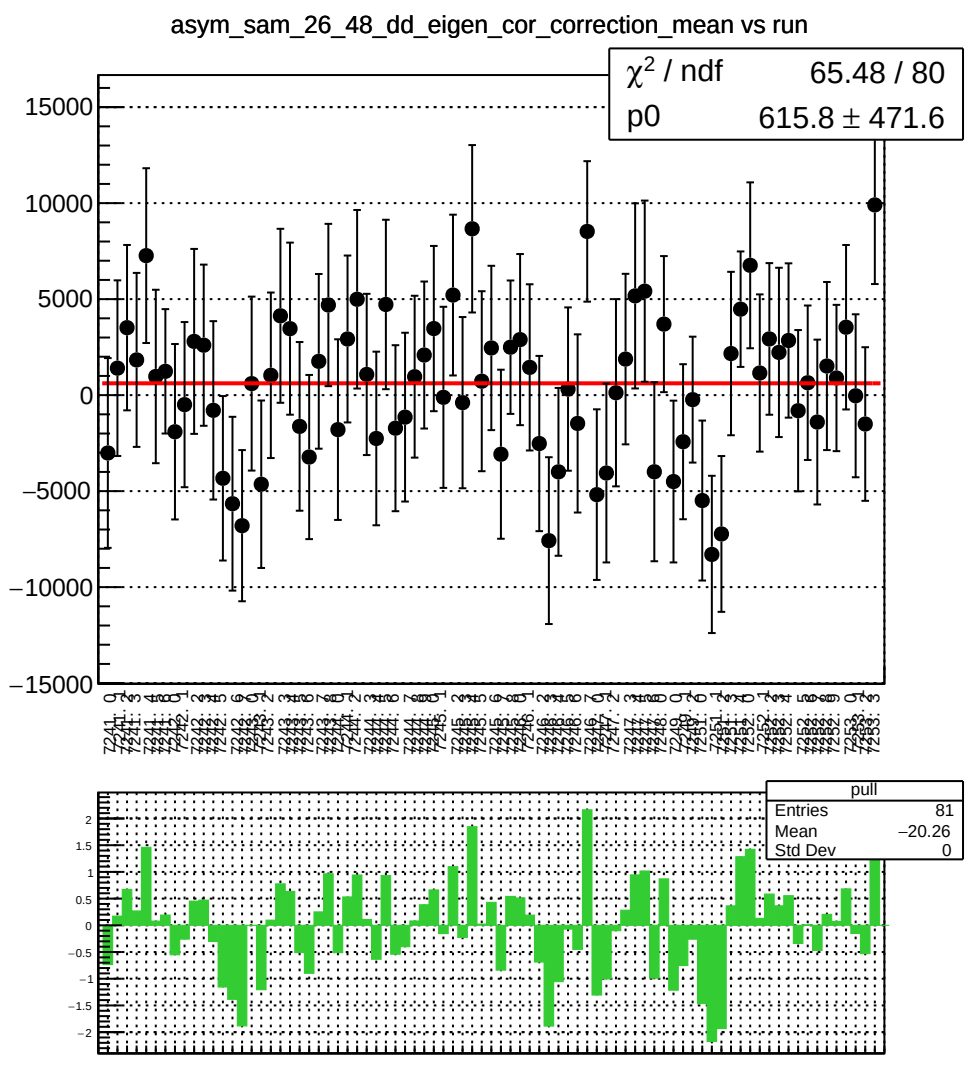

pull1D
Entries 81
Mean −0.01305
Std Dev 0.899
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

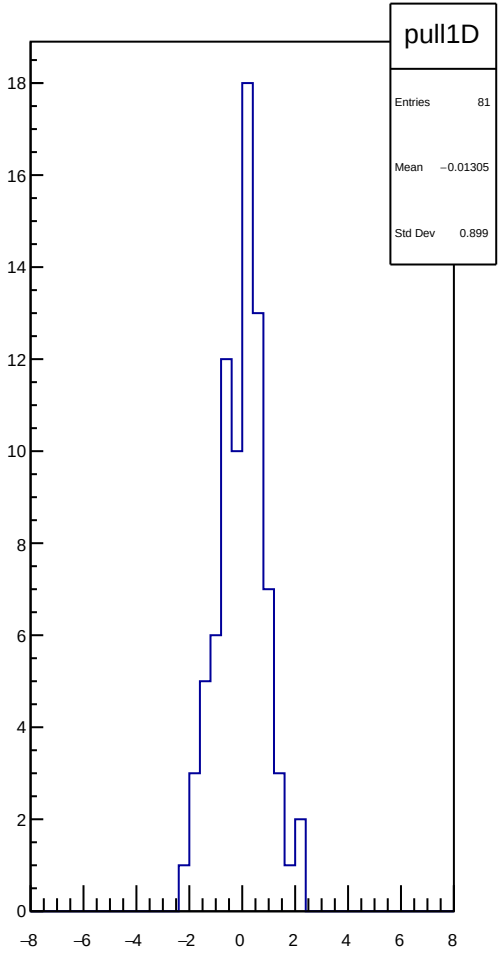

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 3652 / 80
p0 414.6 ± 0.3335
480
460
440
420
400
380

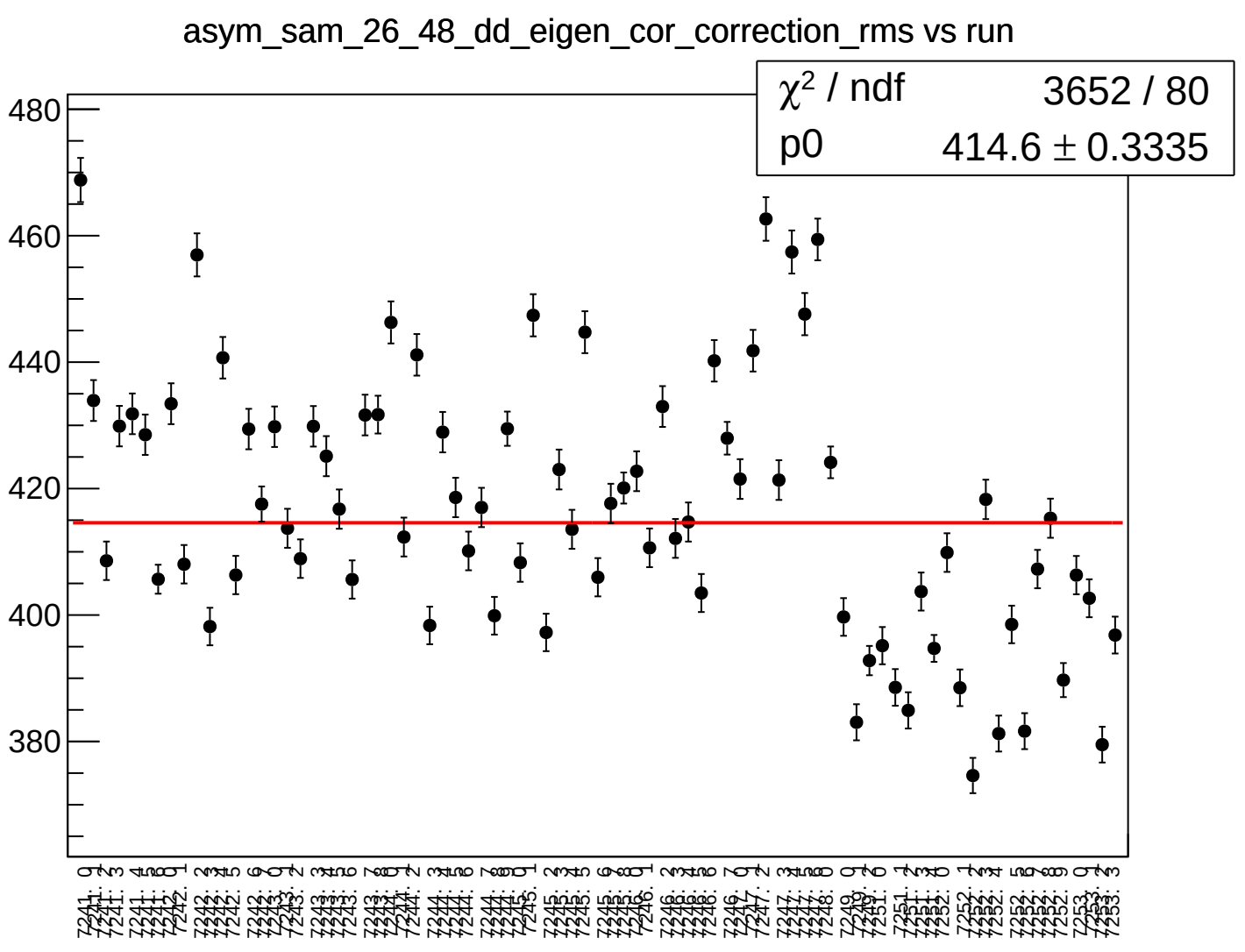

eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 81.78 / 80
p0 −186.2 ± 88.56
pull
Entries 81
Mean 42.59
Std Dev 0

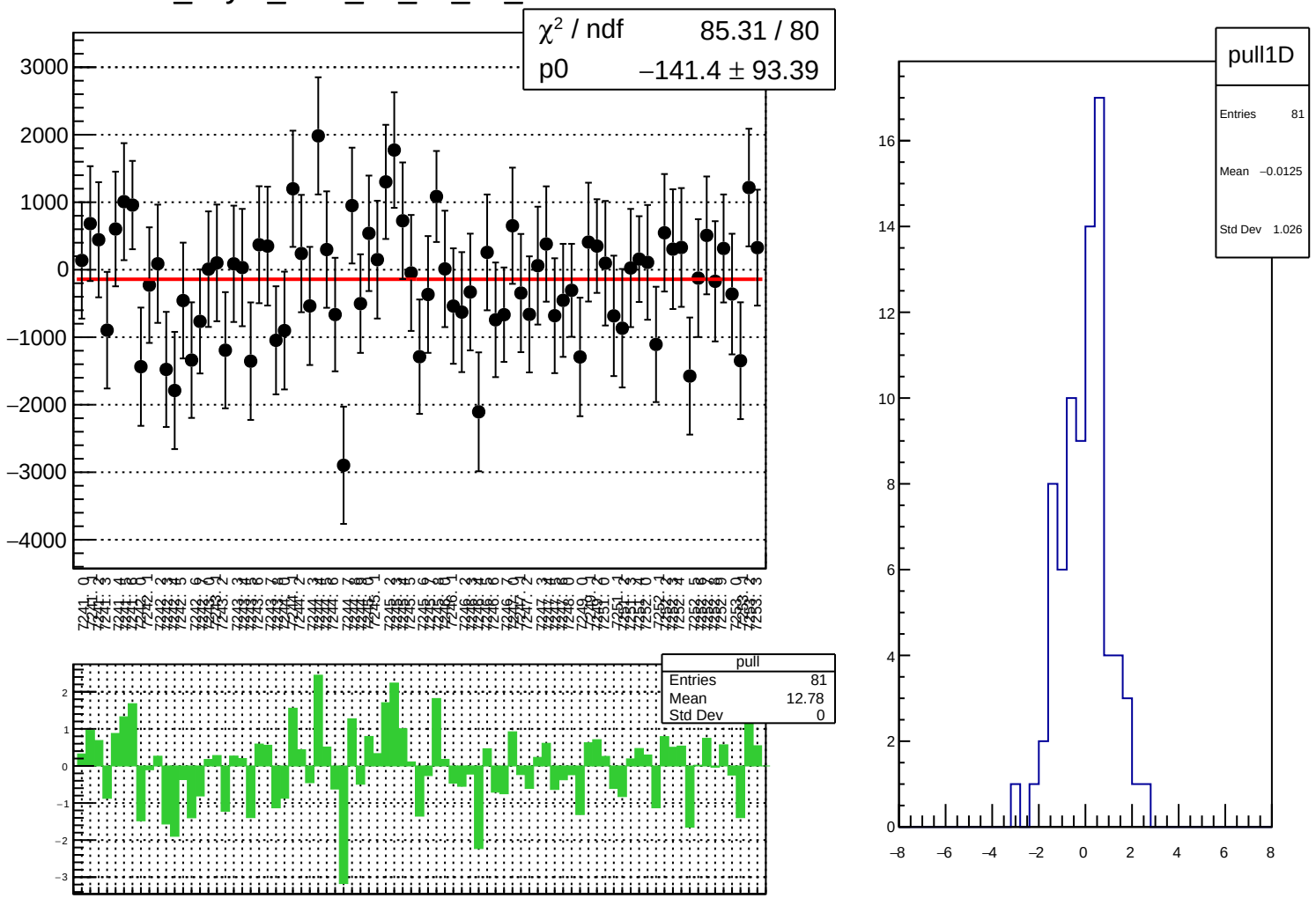

pull1D
Entries 81
Mean −0.01206
Std Dev 1.005

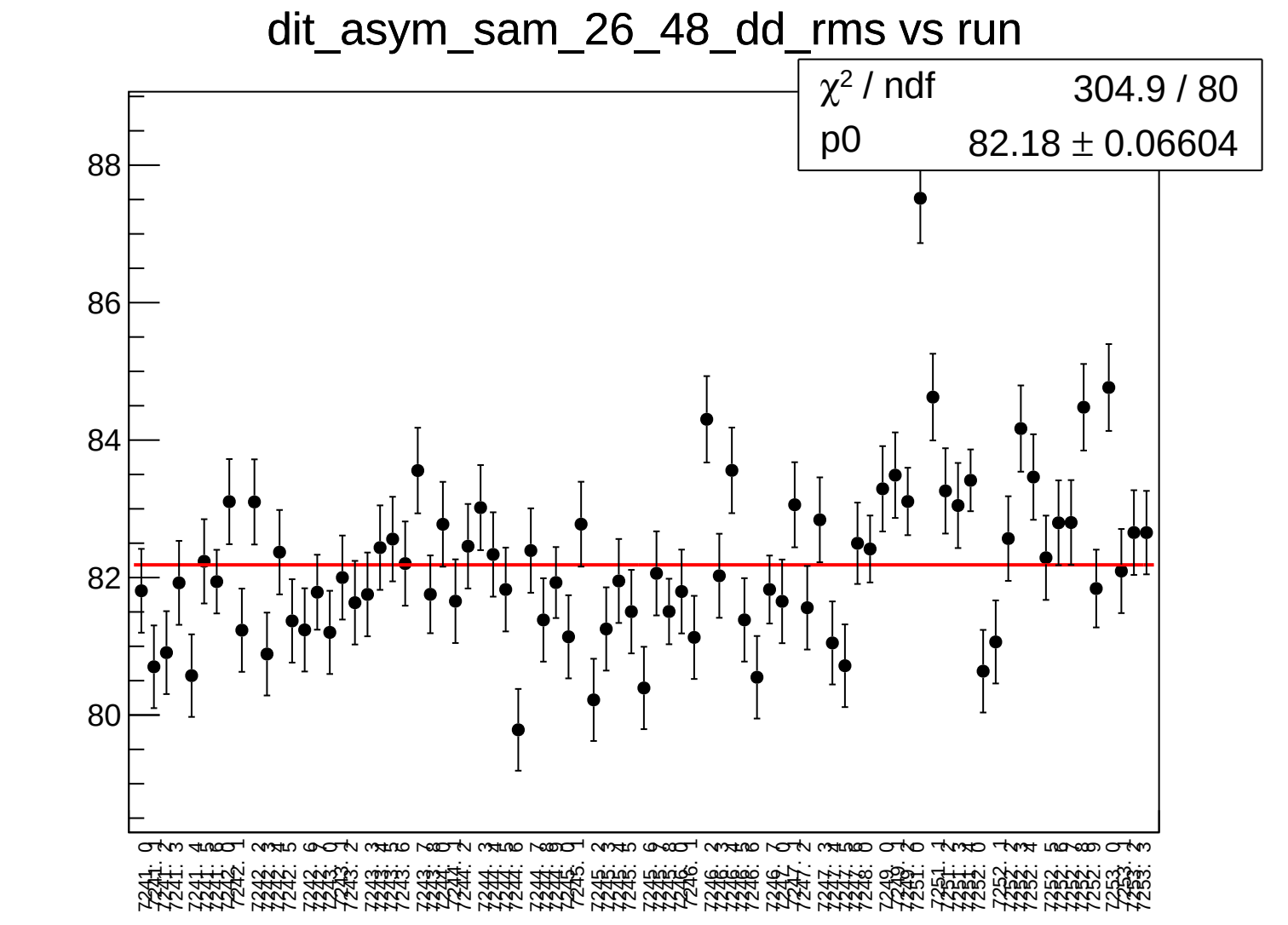

eigen_cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 752.4 / 80
p0 77.93 ± 0.06262
86
84
82
80
78
76
74

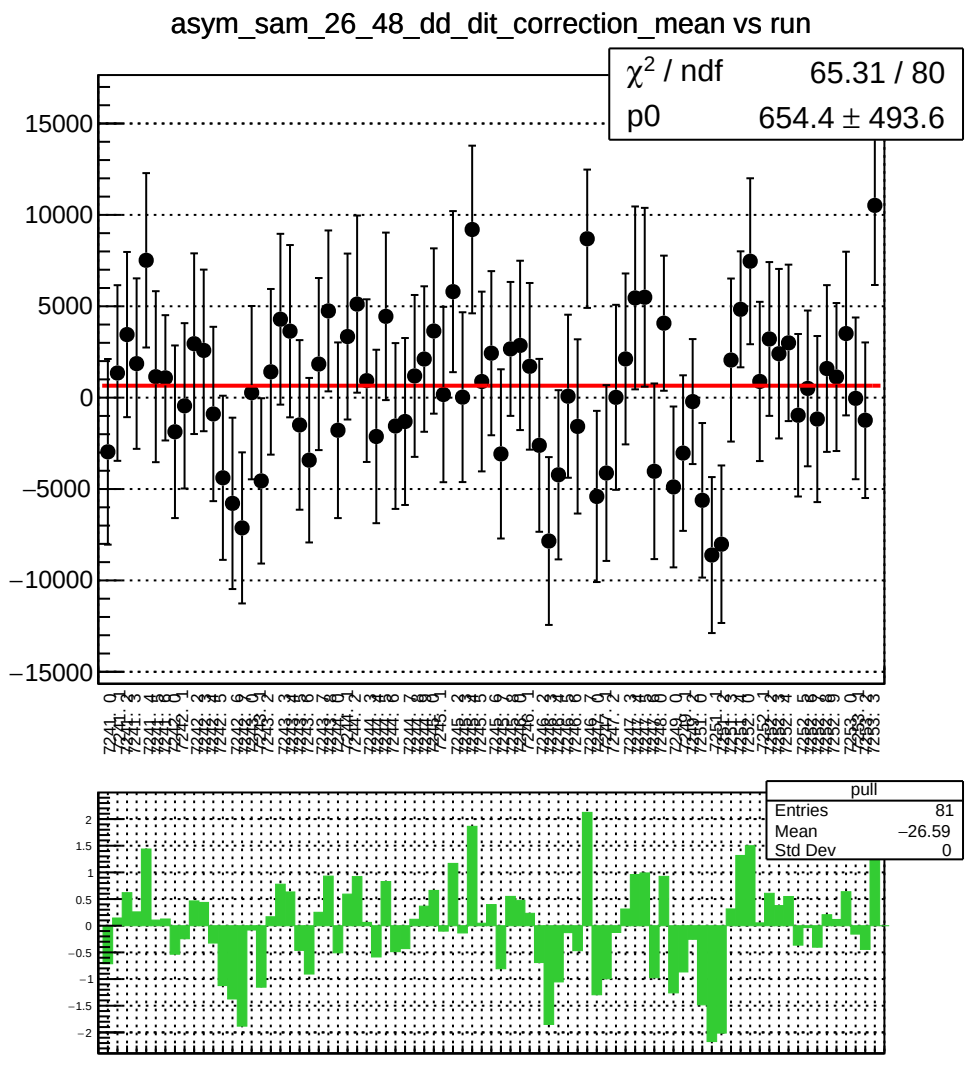

asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 65.48 / 80
p0 615.8 ± 471.6
pull
Entries 81
Mean −20.26
Std Dev 0

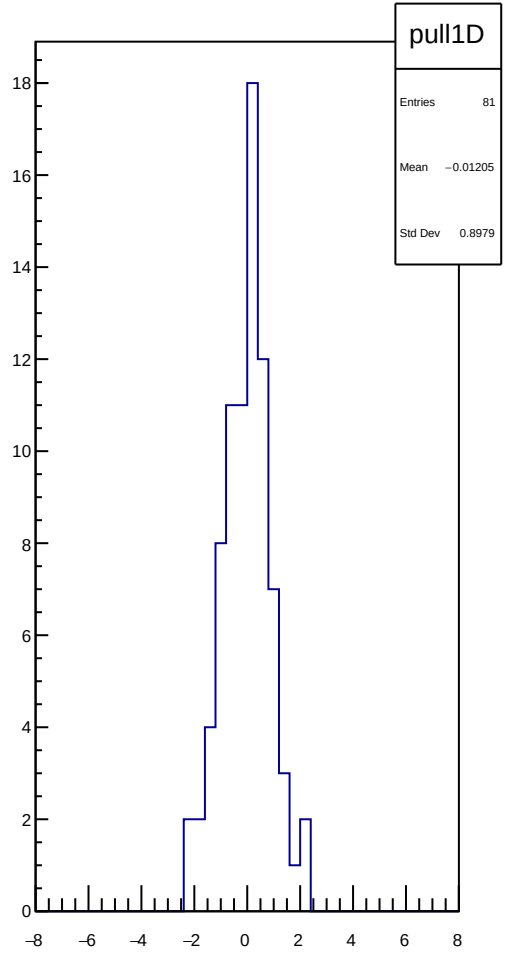

pull1D
Entries 81
Mean −0.01305
Std Dev 0.899

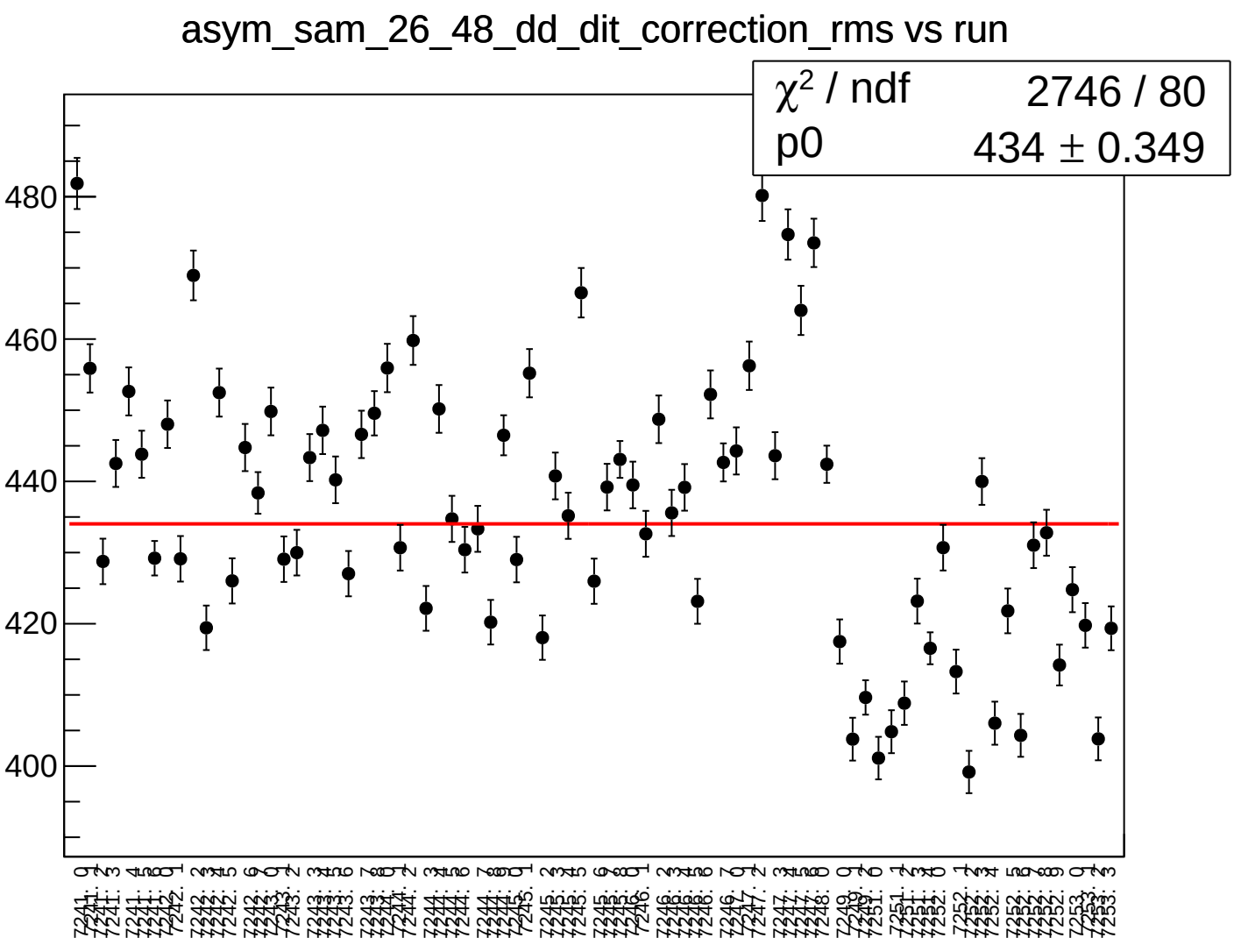

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 3652 / 80
p0 414.6 ± 0.3335
480
460
440
420
400
380

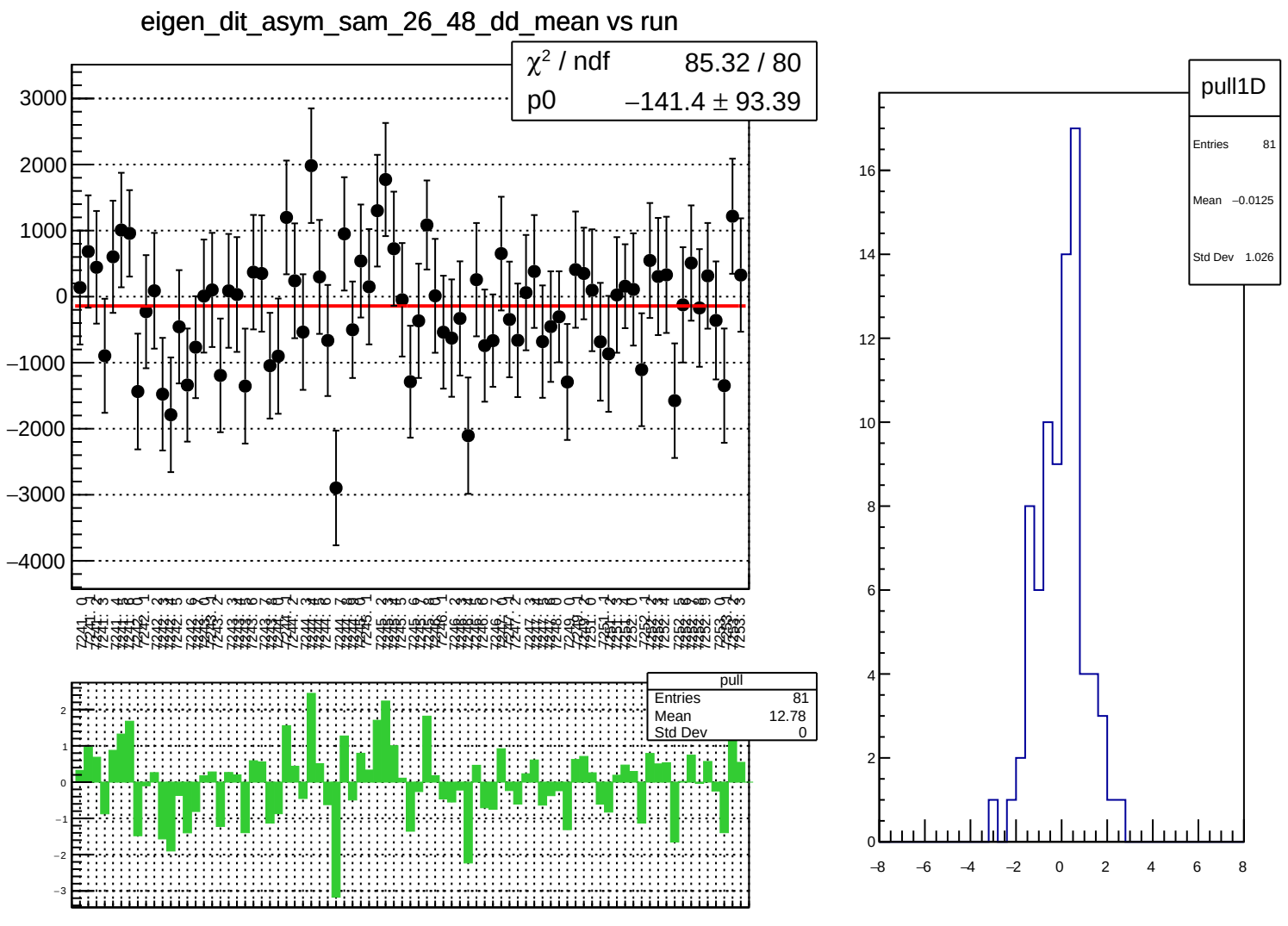

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 85.31 / 80
p0 −141.4 ± 93.39
pull
Entries 81
Mean 12.78
Std Dev 0
pull1D
Entries 81
Mean −0.0125
Std Dev 1.026

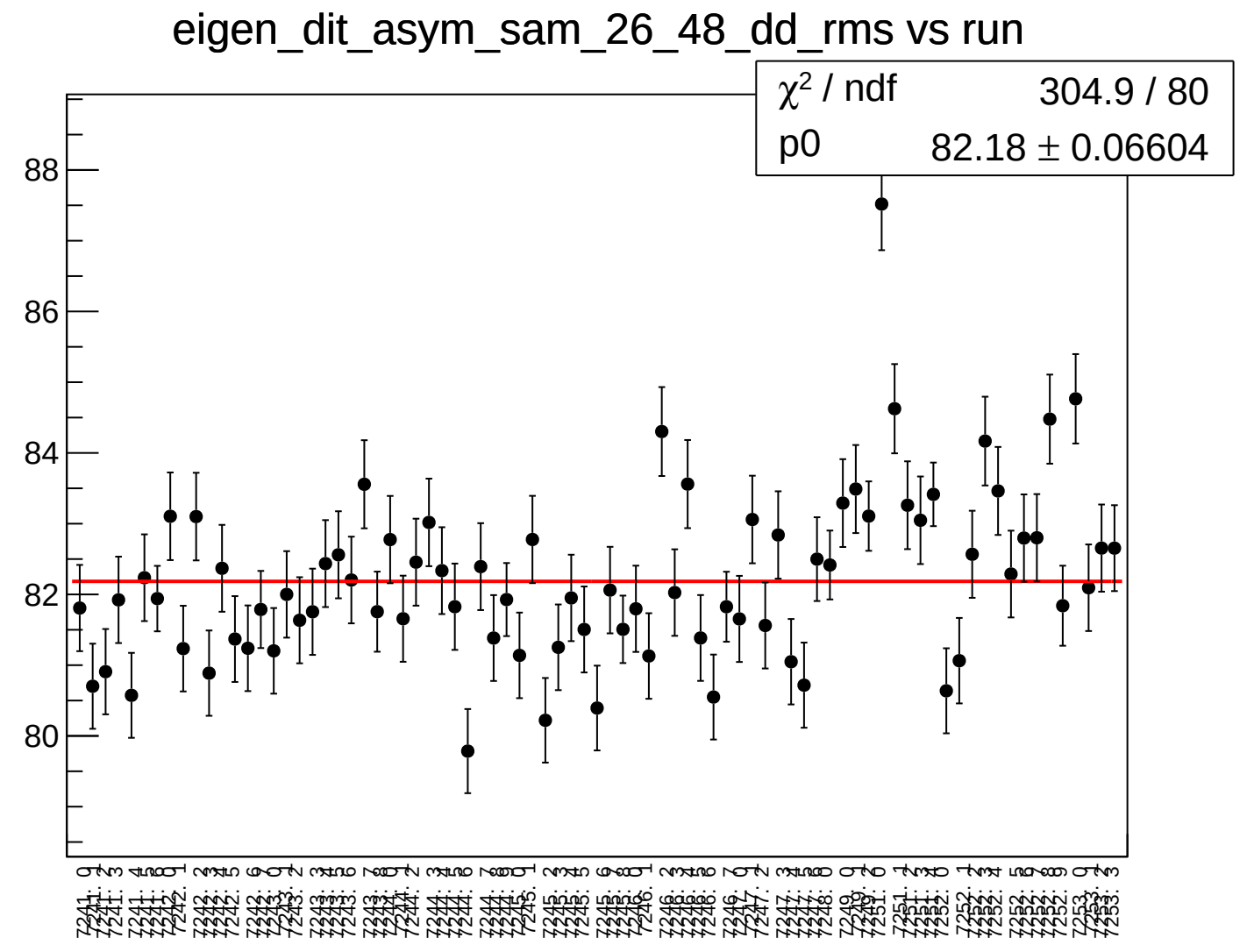

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 304.9 / 80
p0 82.18 ± 0.06604
88
86
84
82
80

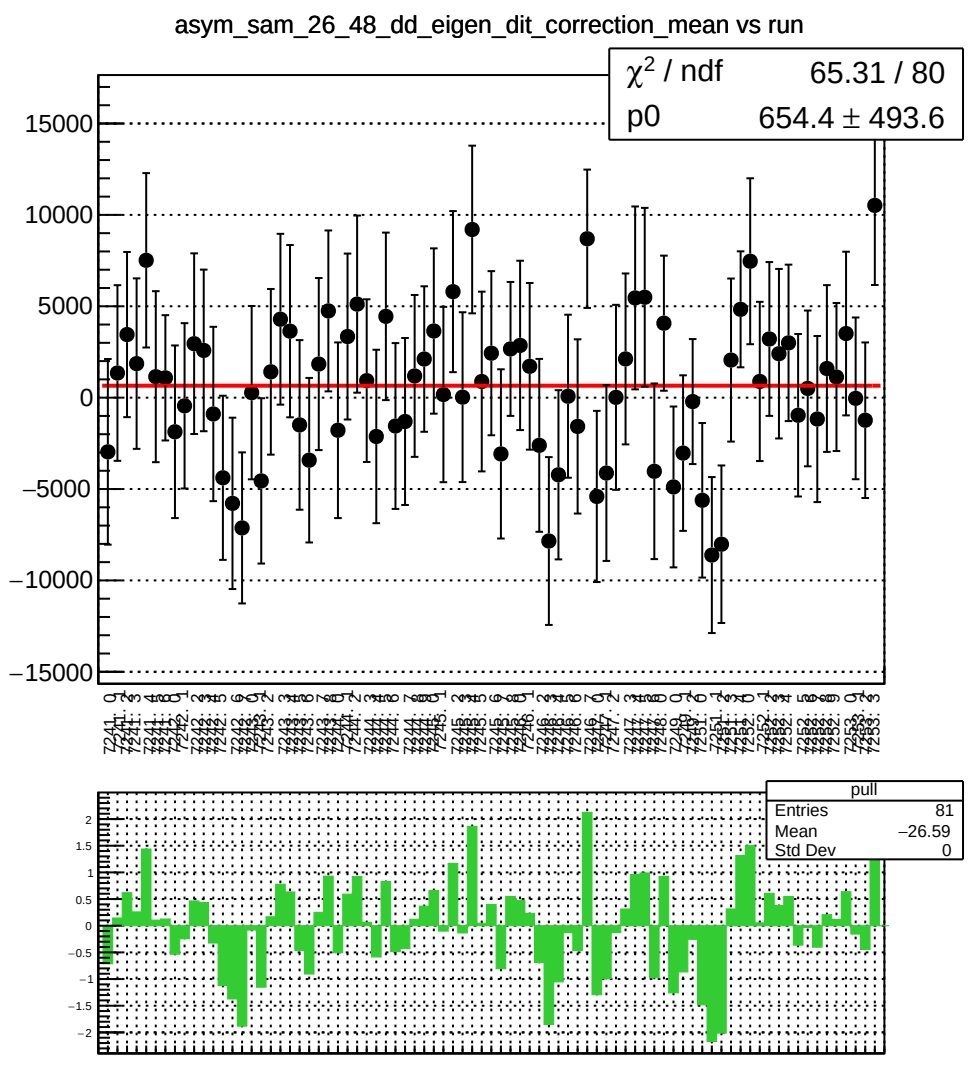

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 65.31 / 80
p0 654.4 ± 493.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean −26.59
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

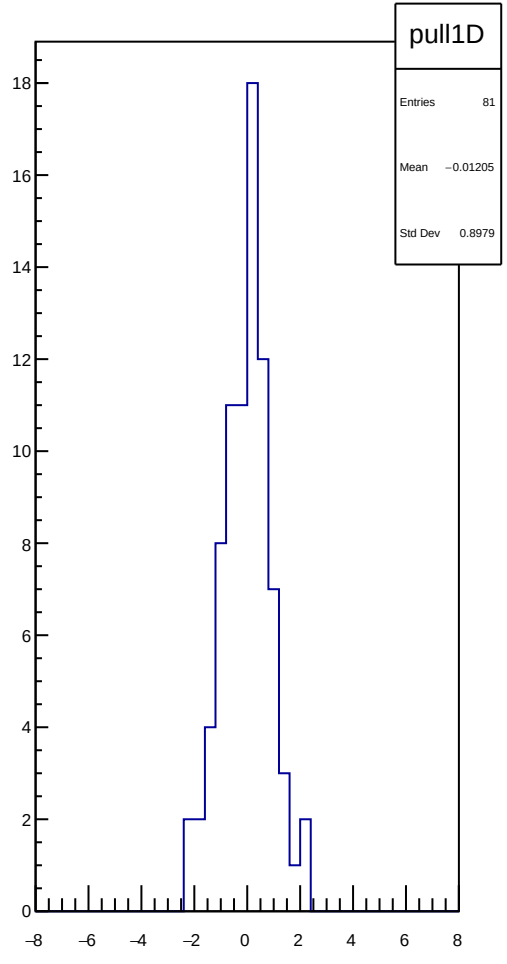

pull1D
Entries 81
Mean −0.01205
Std Dev 0.8979
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

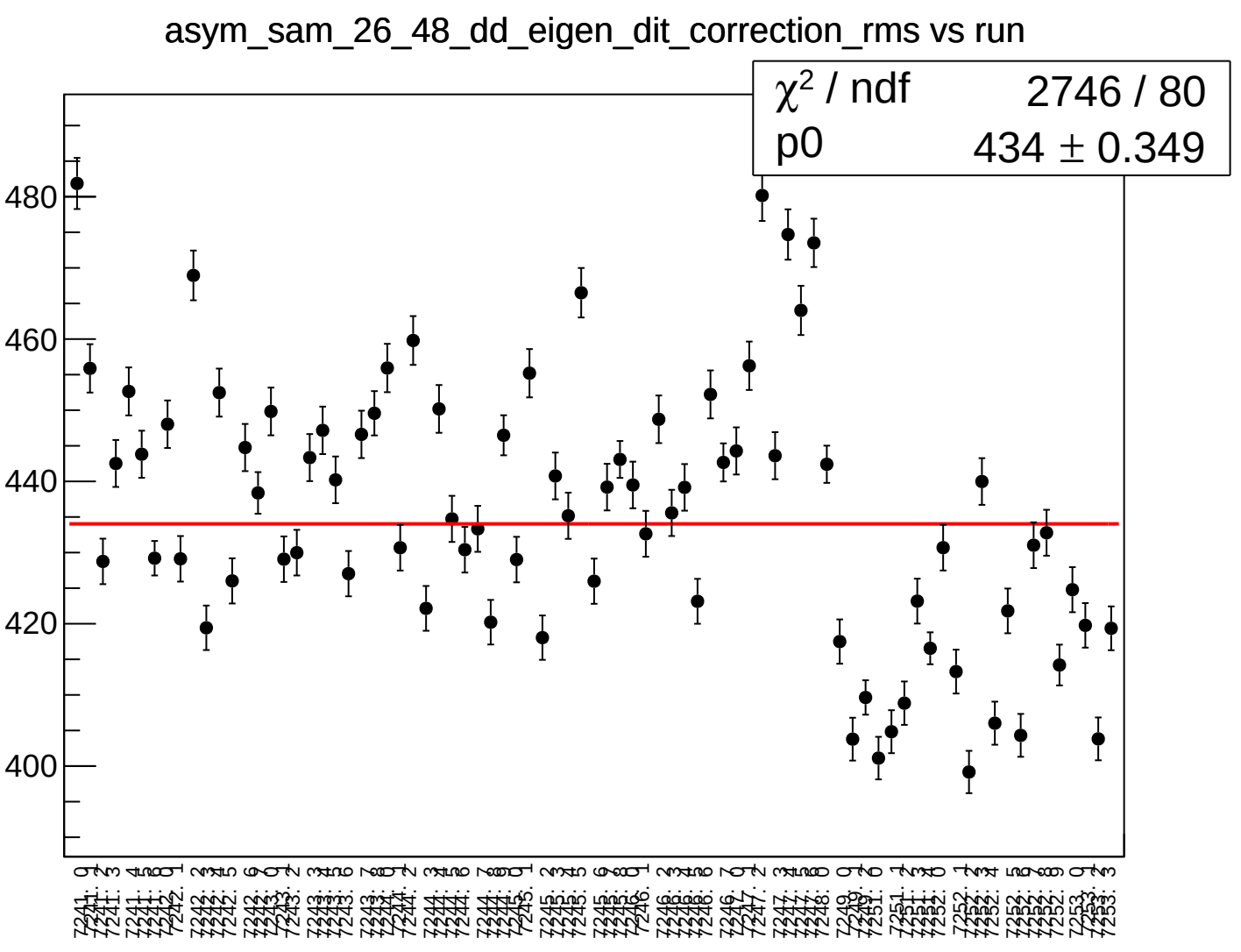

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 2746 / 80
p0 434 ± 0.349
480
460
440
420
400

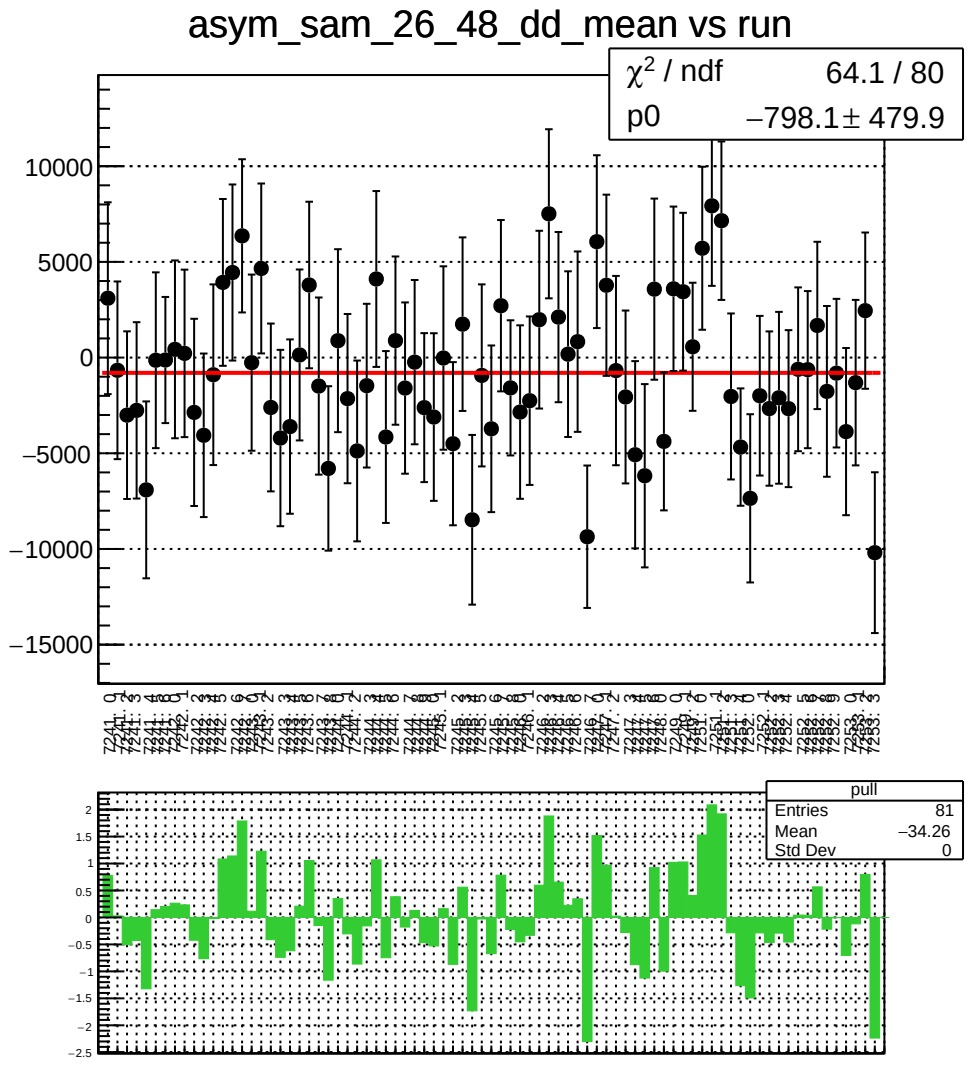

eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 85.32 / 80
p0 −141.4 ± 93.39
pull
Entries 81
Mean 12.78
Std Dev 0
pull1D
Entries 81
Mean −0.0125
Std Dev 1.026

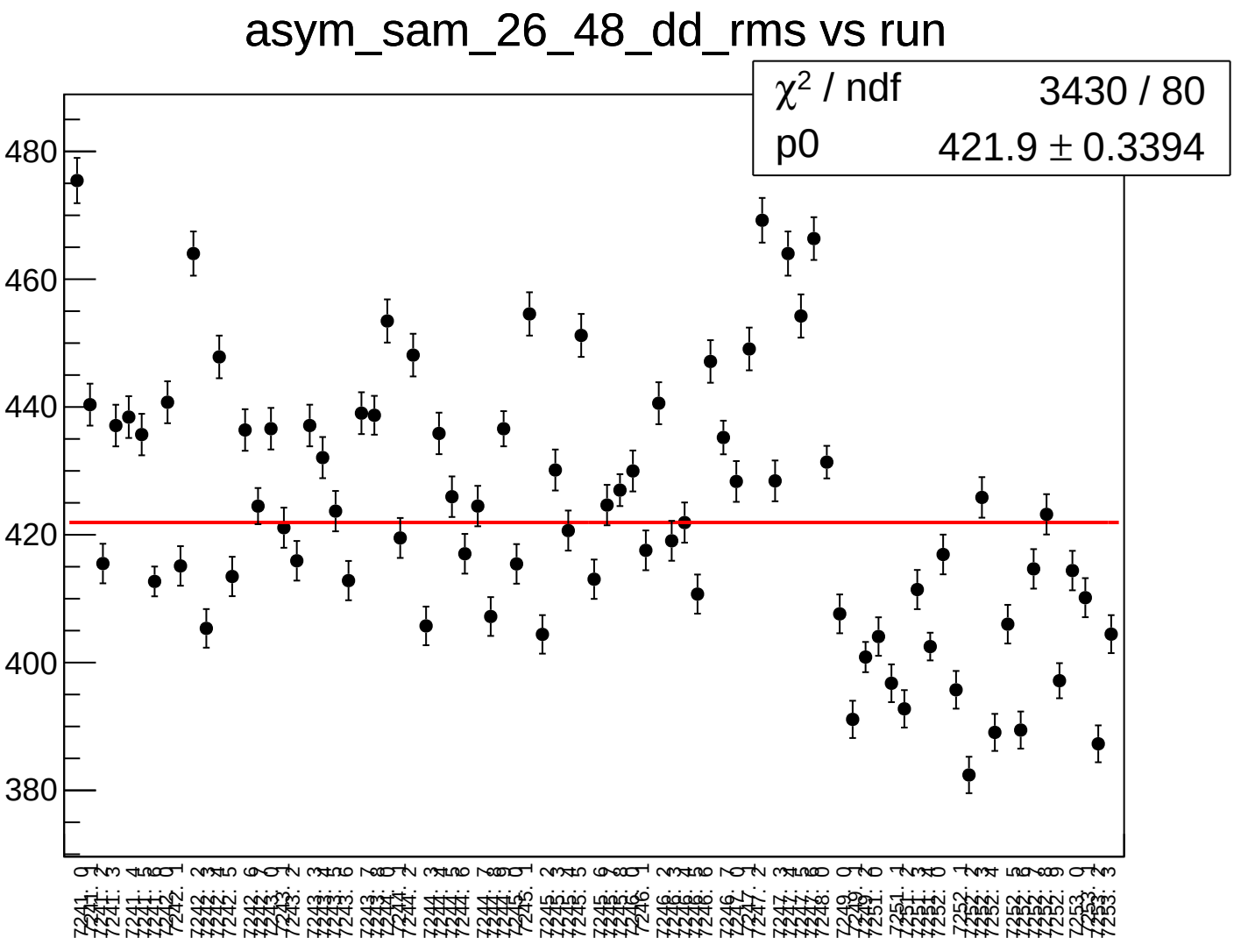

eigen_dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 304.9 / 80
p0 82.18 ± 0.06604
88
86
84
82
80

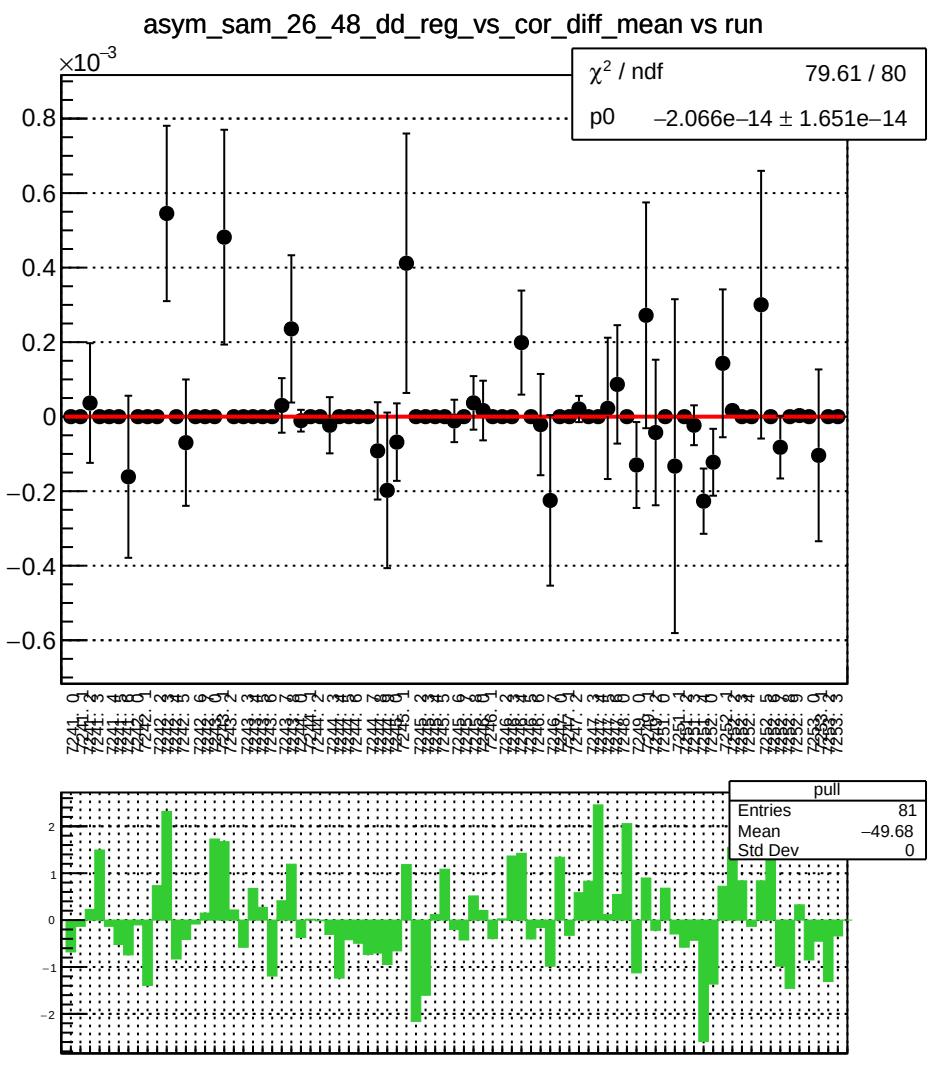

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 65.31 / 80
p0 654.4 ± 493.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean −26.59
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

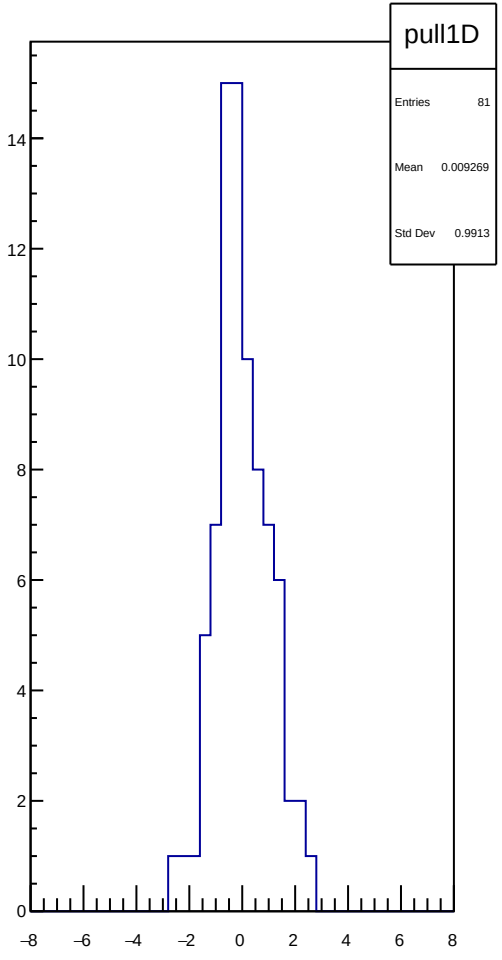

pull1D
Entries 81
Mean −0.01205
Std Dev 0.8979
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

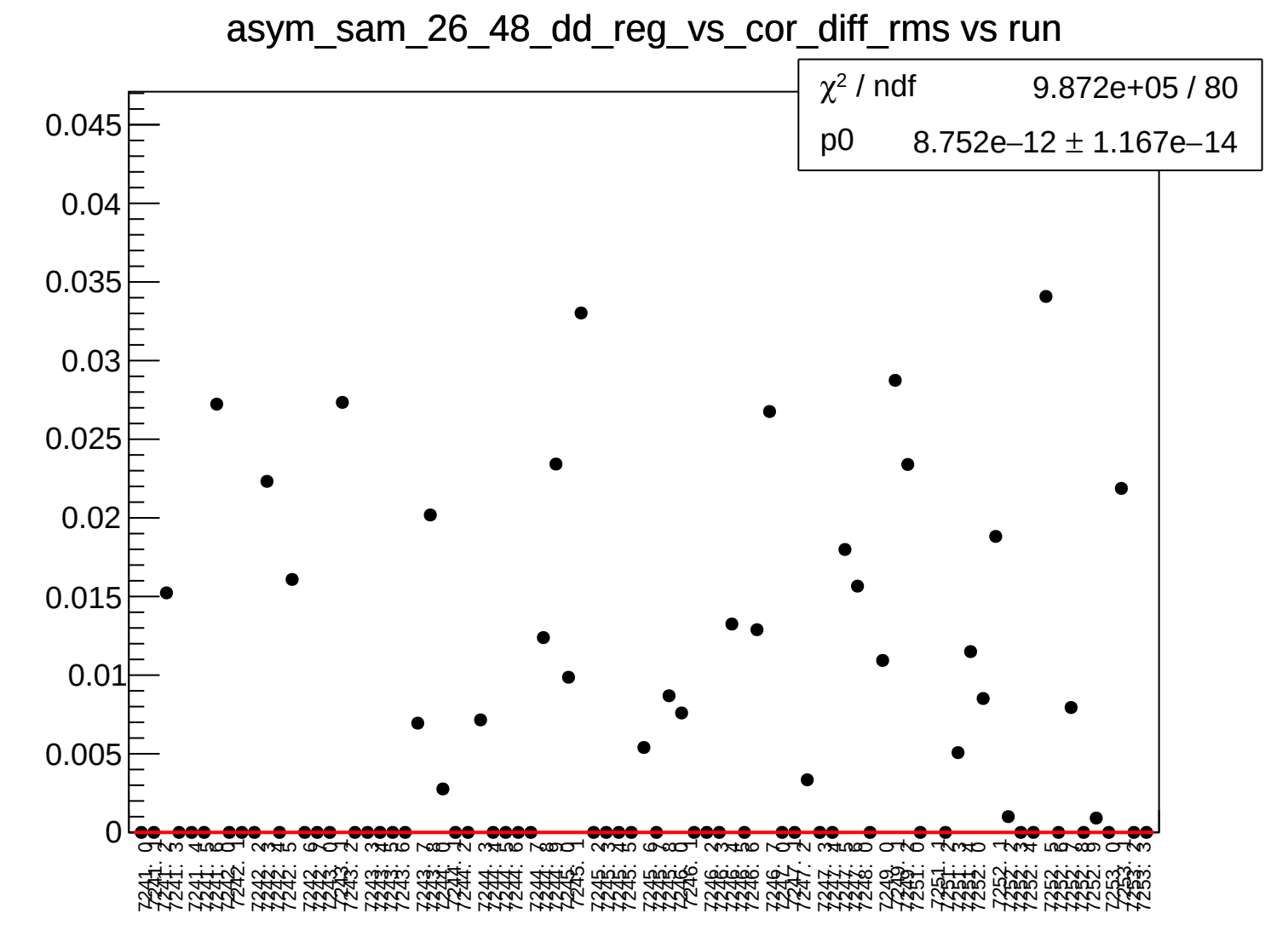

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 2746 / 80
p0 434 ± 0.349
480
460
440
420
400

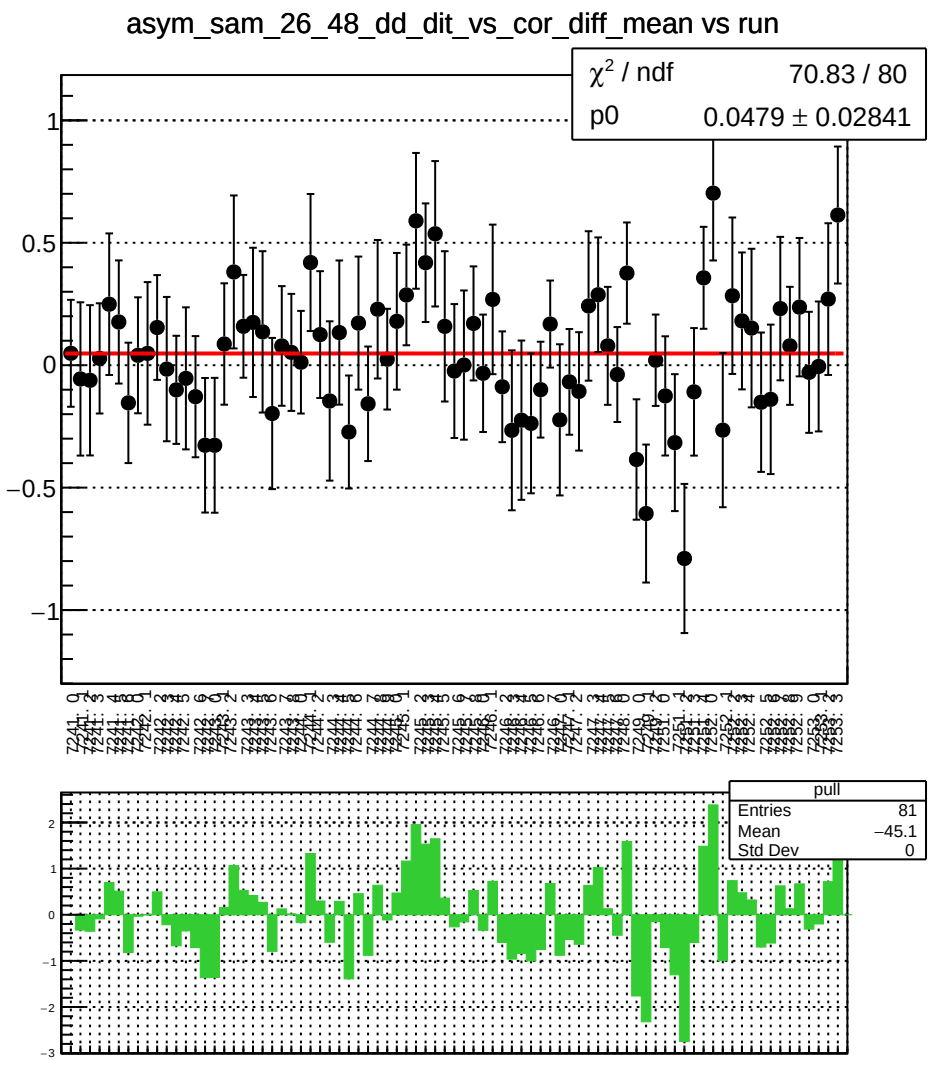

asym_sam_26_48_dd_mean vs run
χ² / ndf 64.1 / 80
p0 −798.1 ± 479.9
pull
Entries 81
Mean −34.26
Std Dev 0
pull1D
Entries 81
Mean 0.01012
Std Dev 0.8895

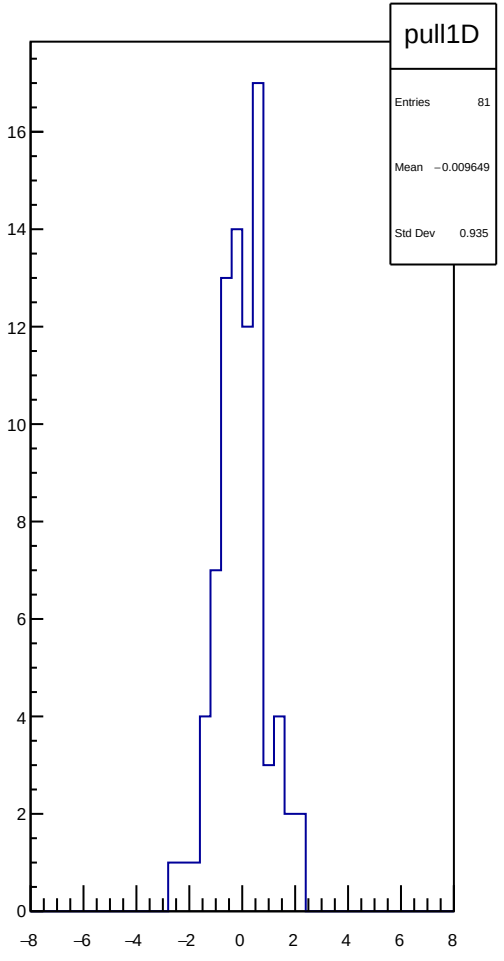

asym_sam_26_48_dd_rms vs run
χ² / ndf 3430 / 80
p0 421.9 ± 0.3394
480
460
440
420
400
380

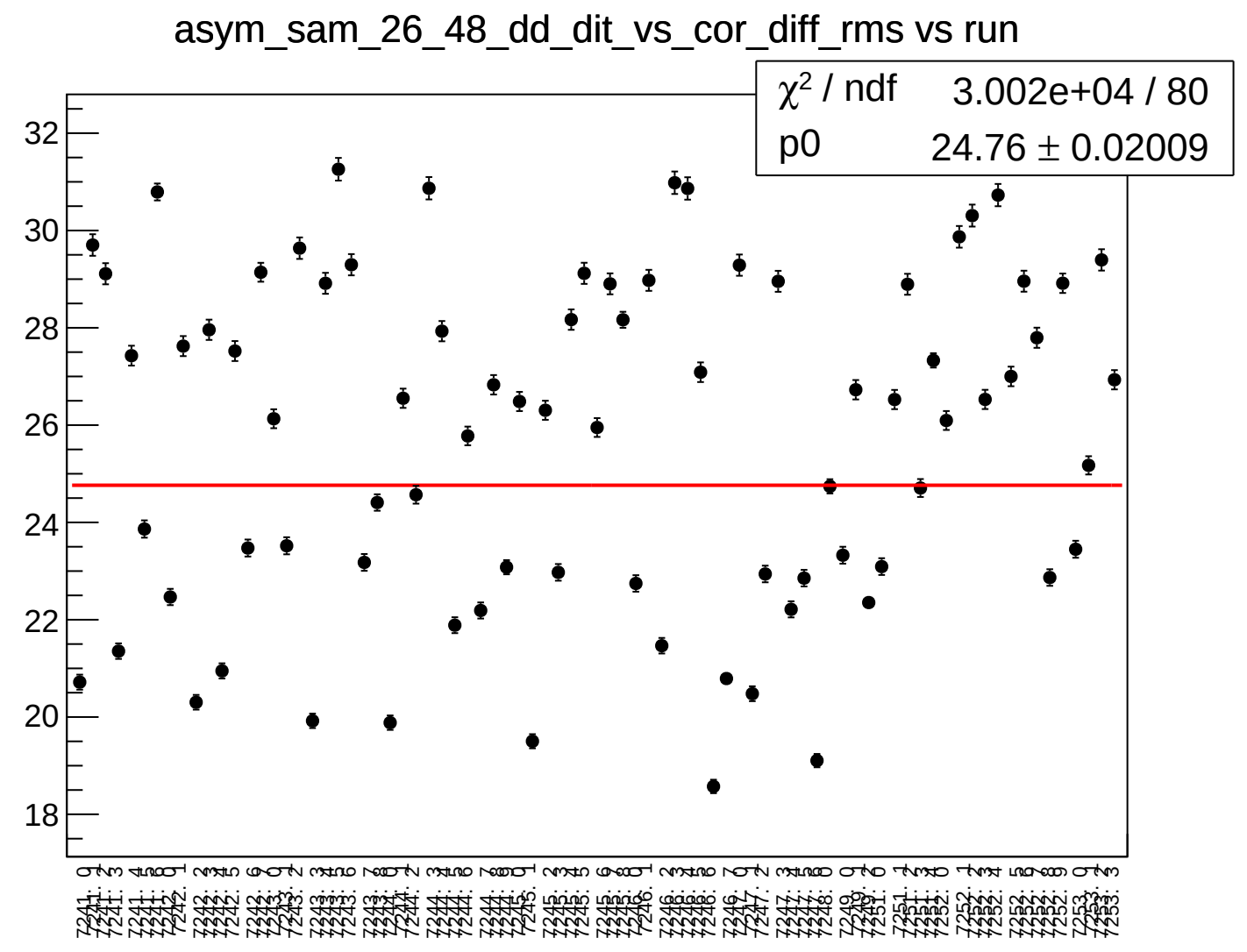

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 79.61 / 80
p0 −2.066e−14 ± 1.651e−14
pull
Entries 81
Mean −49.68
Std Dev 0

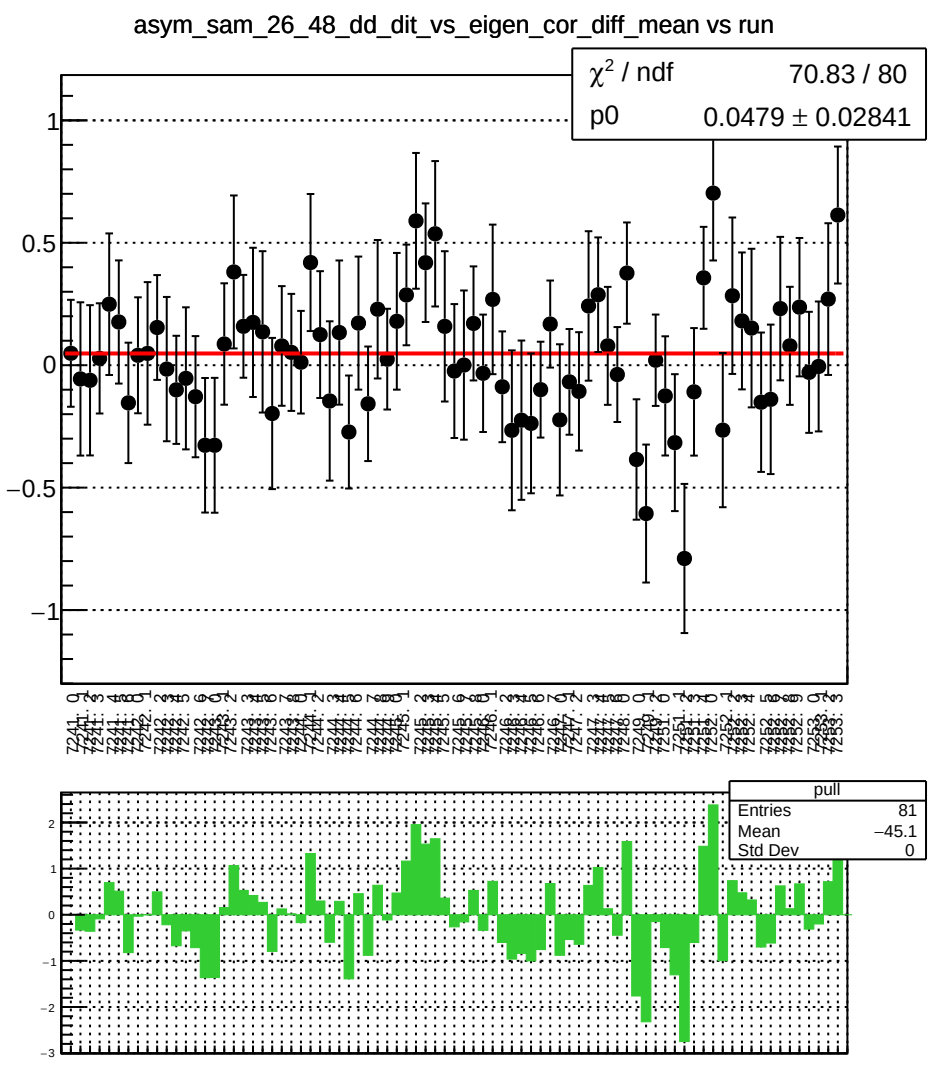

pull1D
Entries 81
Mean 0.009269
Std Dev 0.9913

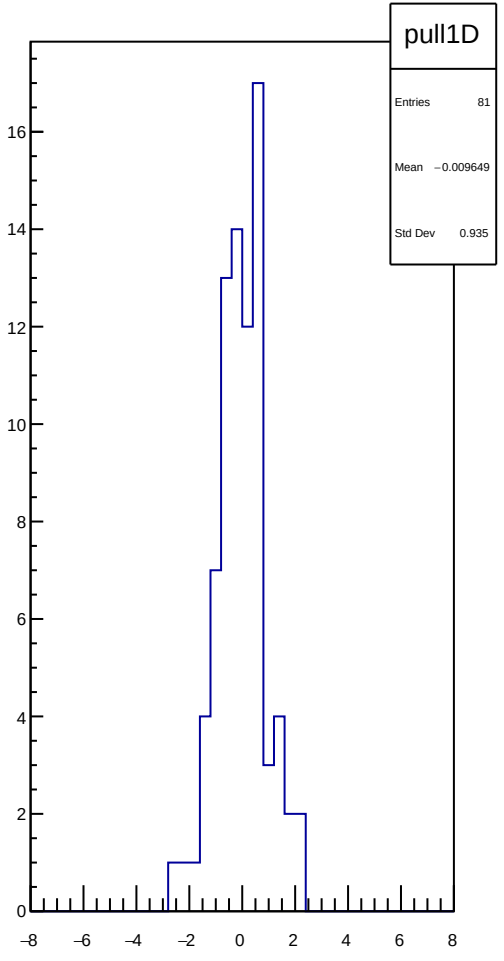

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.872e+05 / 80
p0 8.752e−12 ± 1.167e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

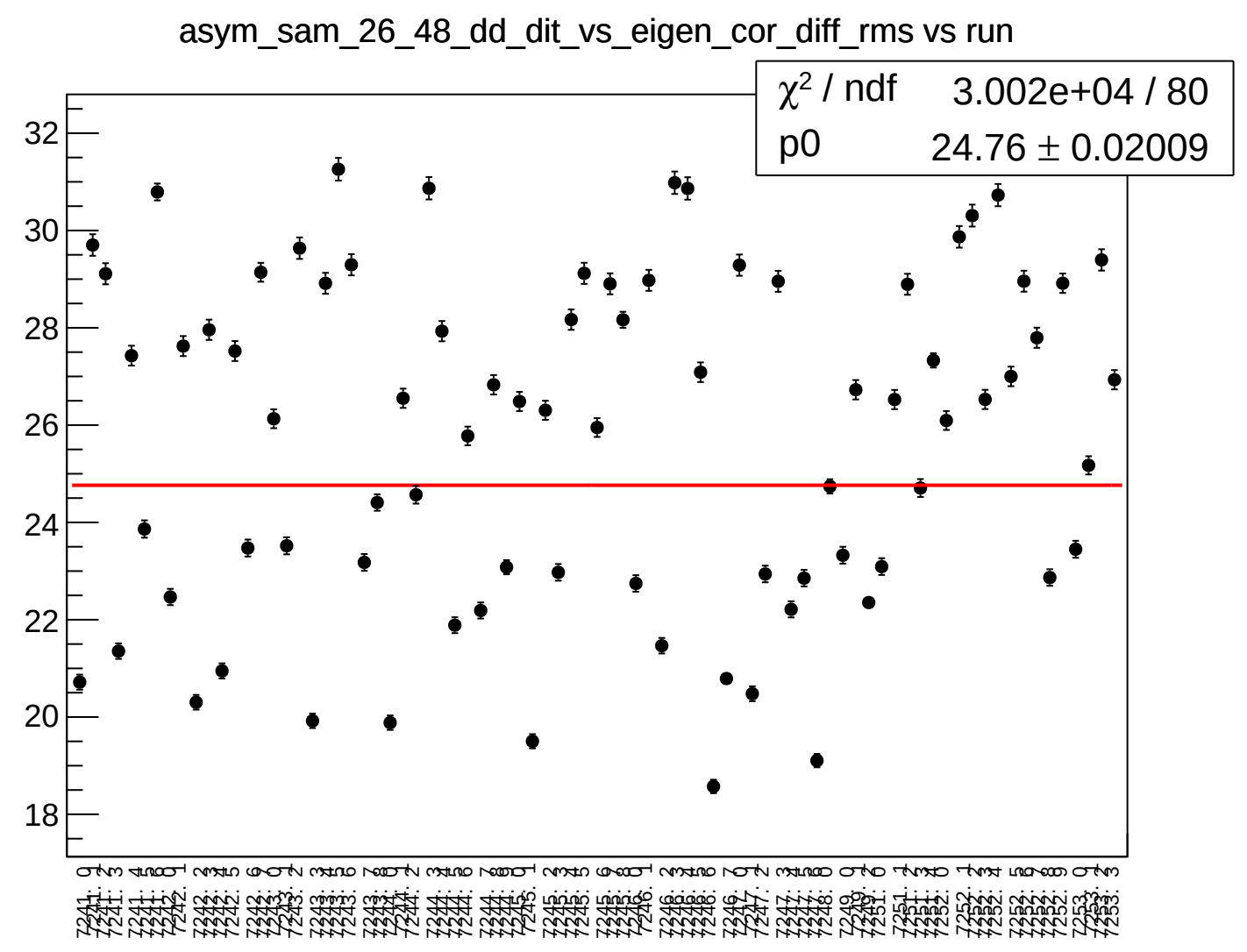

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 70.83 / 80
p0 0.0479 ± 0.02841
pull
Entries 81
Mean −45.1
Std Dev 0

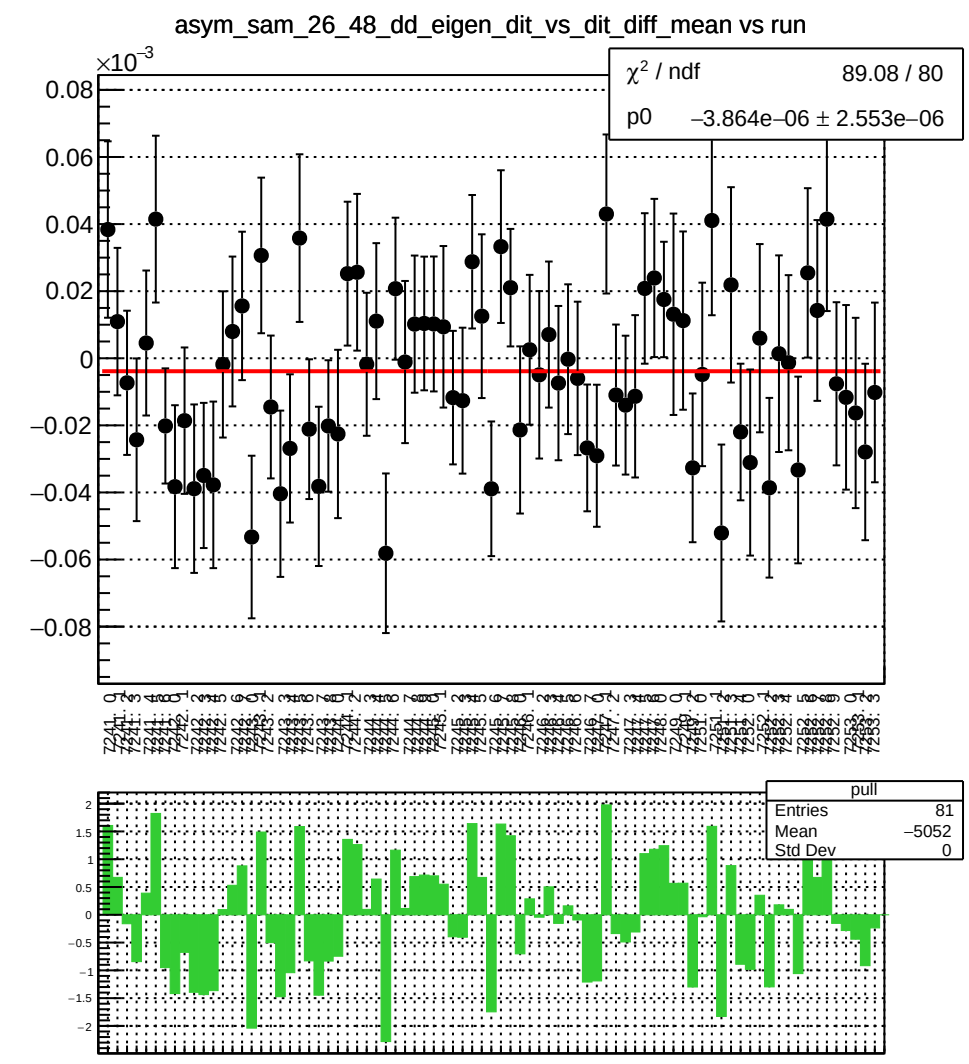

pull1D
Entries 81
Mean −0.009649
Std Dev 0.935

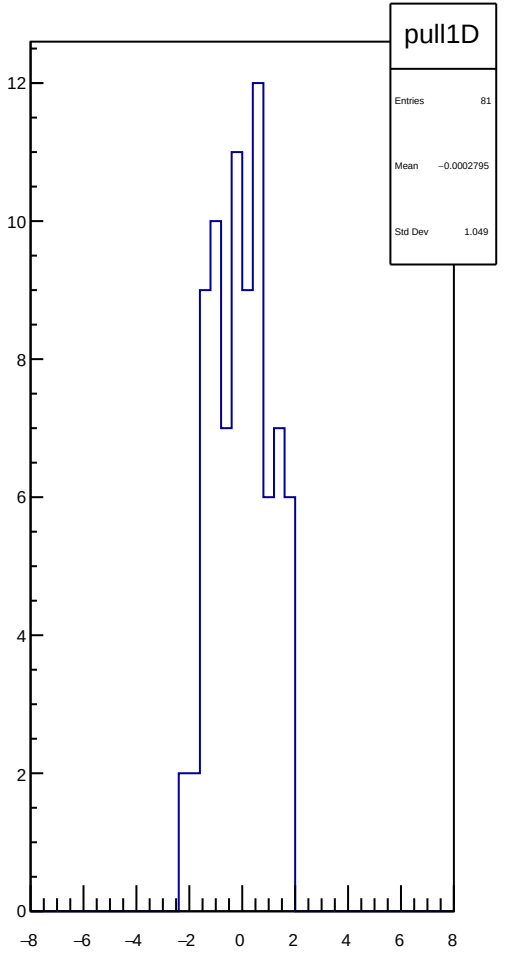

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.002e+04 / 80
p0 24.76 ± 0.02009
32
30
28
26
24
22
20
18

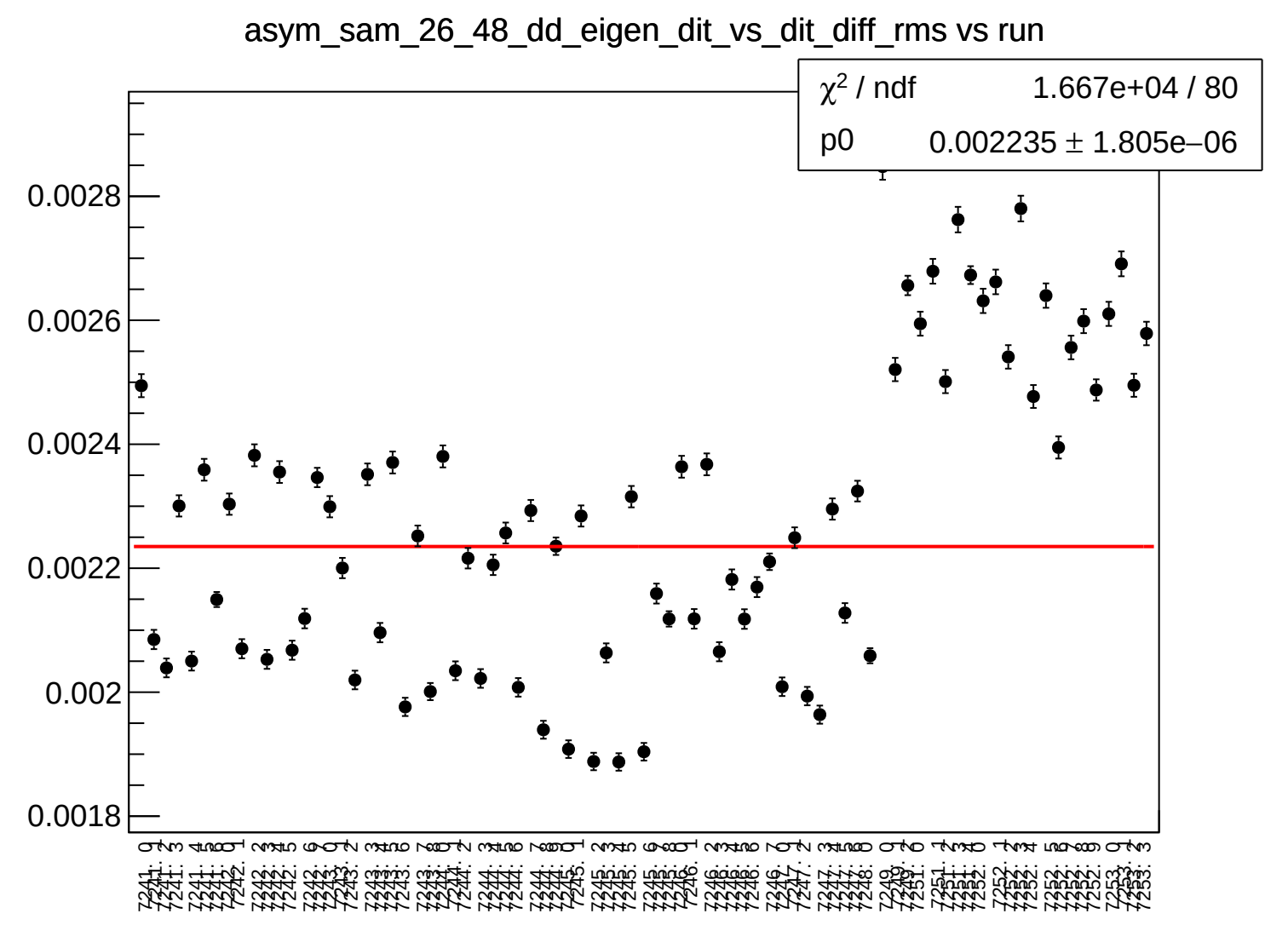

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.83 / 80
p0 0.0479 ± 0.02841
pull
Entries 81
Mean −45.1
Std Dev 0

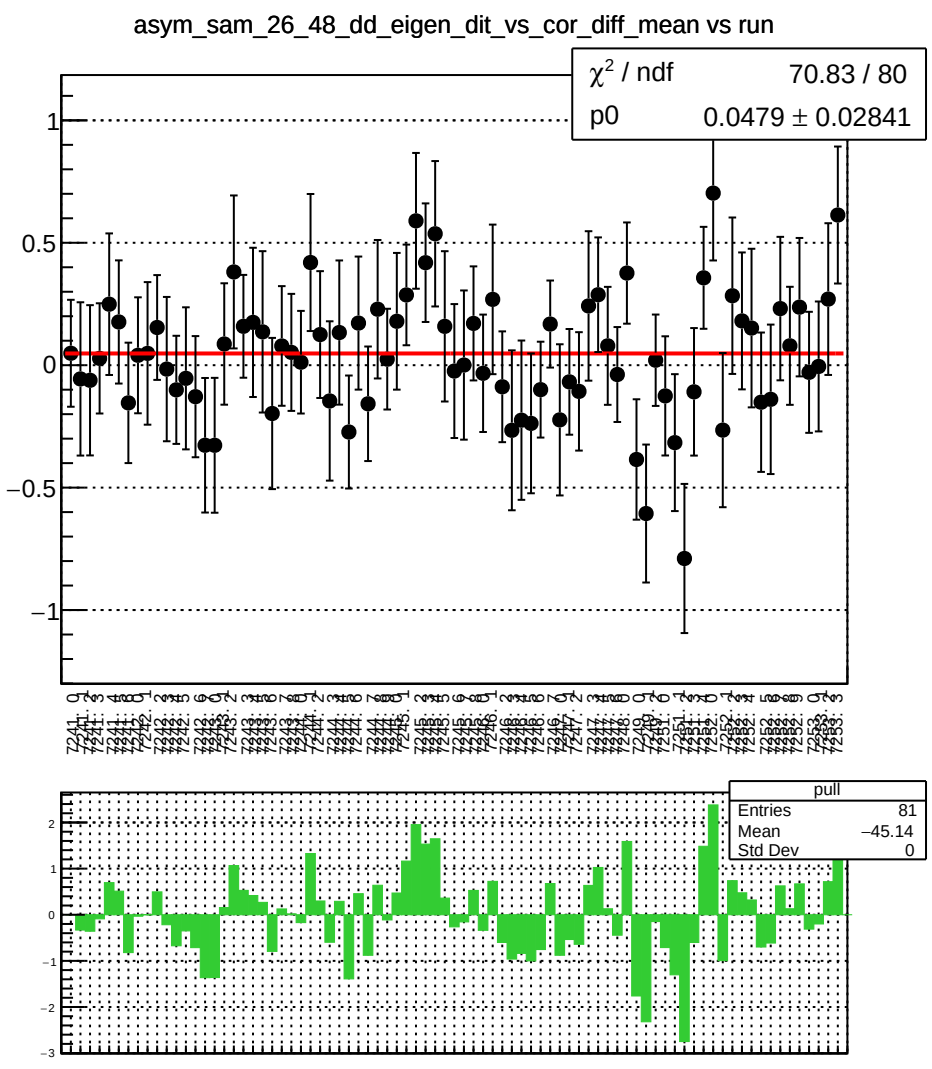

pull1D
Entries 81
Mean −0.009649
Std Dev 0.935

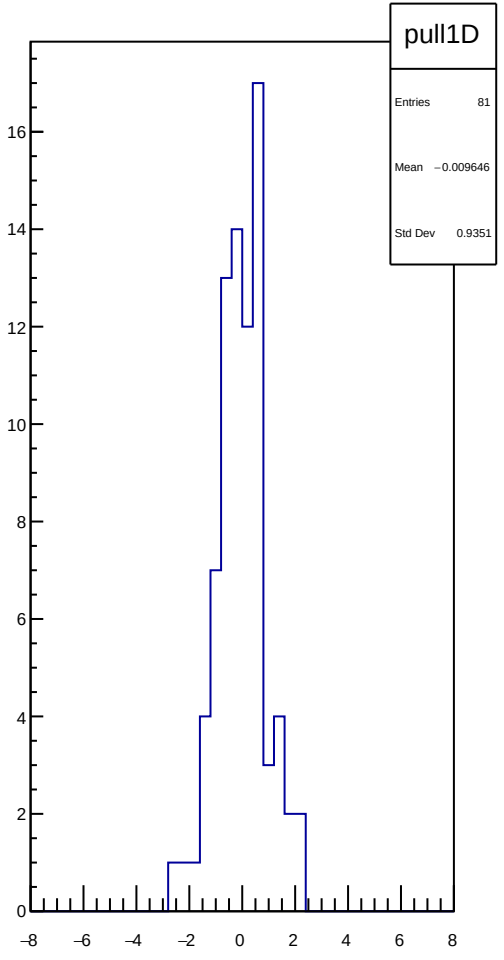

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.002e+04 / 80
p0 24.76 ± 0.02009
32
30
28
26
24
22
20
18

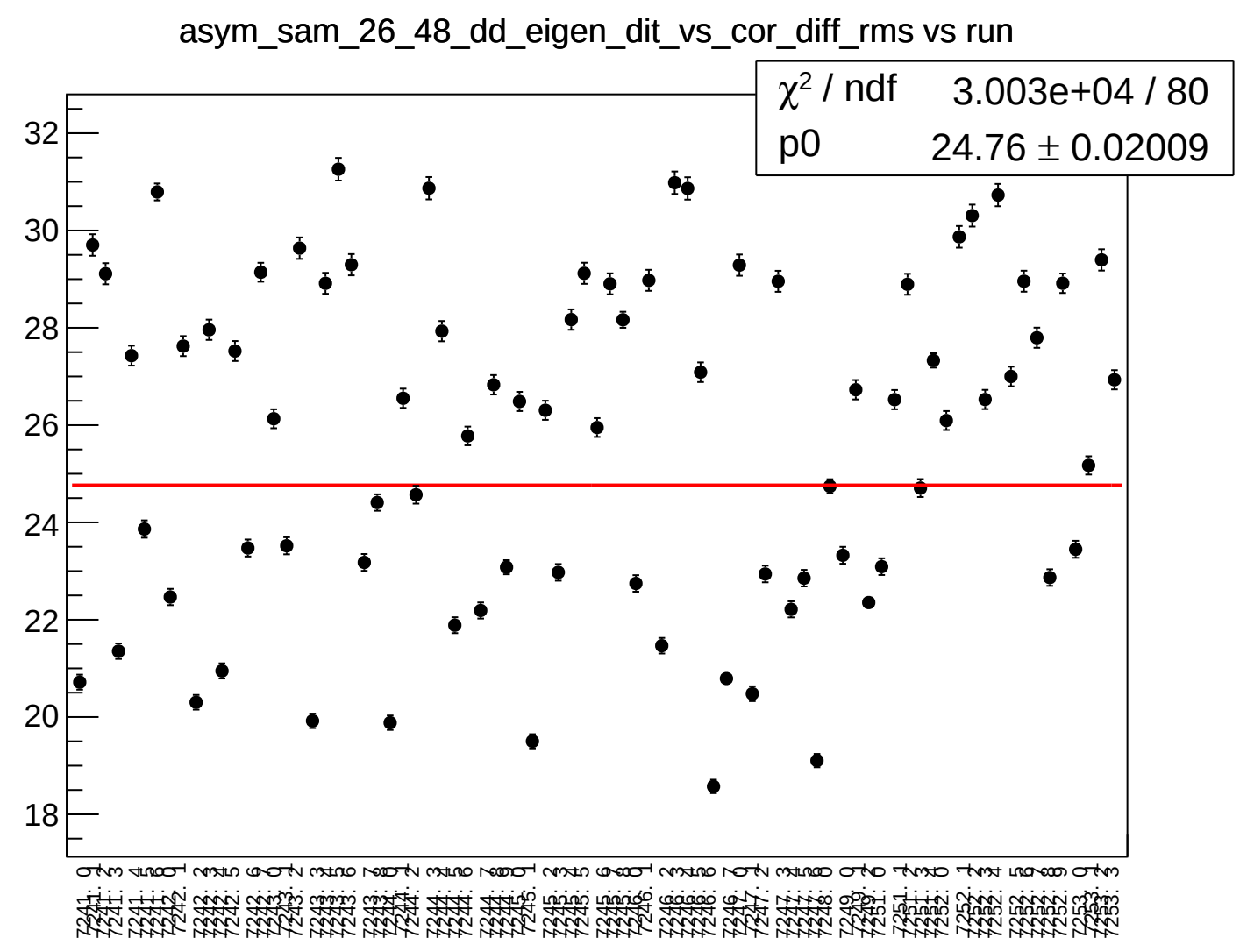

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.08 / 80
p0 −3.864e−06 ± 2.553e−06
pull
Entries 81
Mean −5052
Std Dev 0

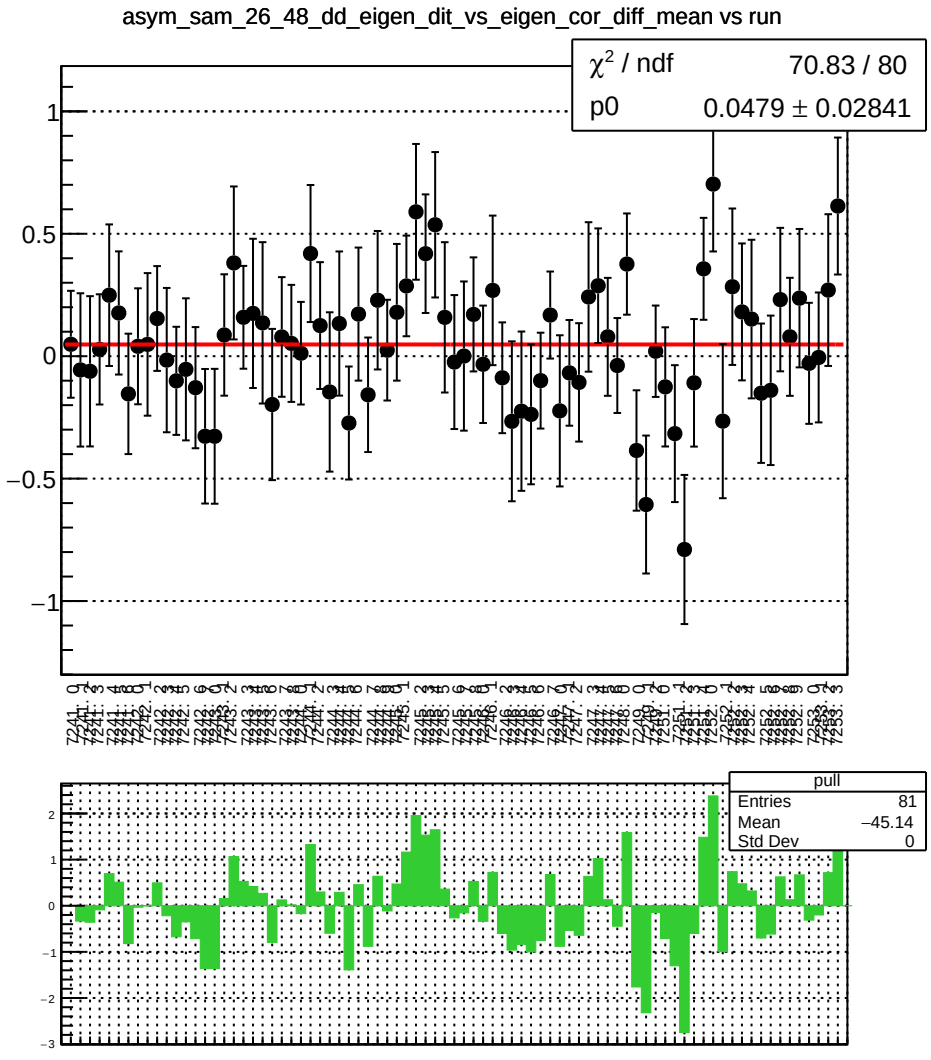

pull1D
Entries 81
Mean −0.0002795
Std Dev 1.049

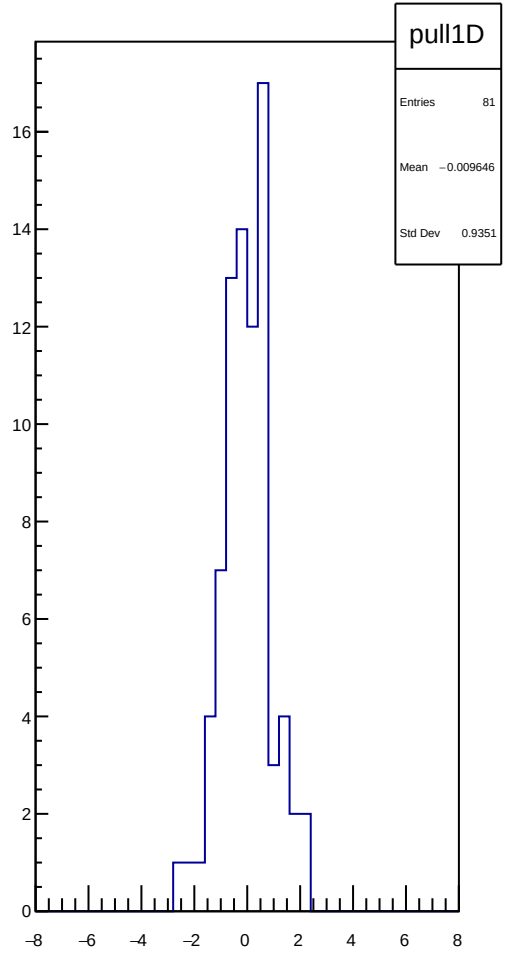

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.667e+04 / 80
p0 0.002235 ± 1.805e−06
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

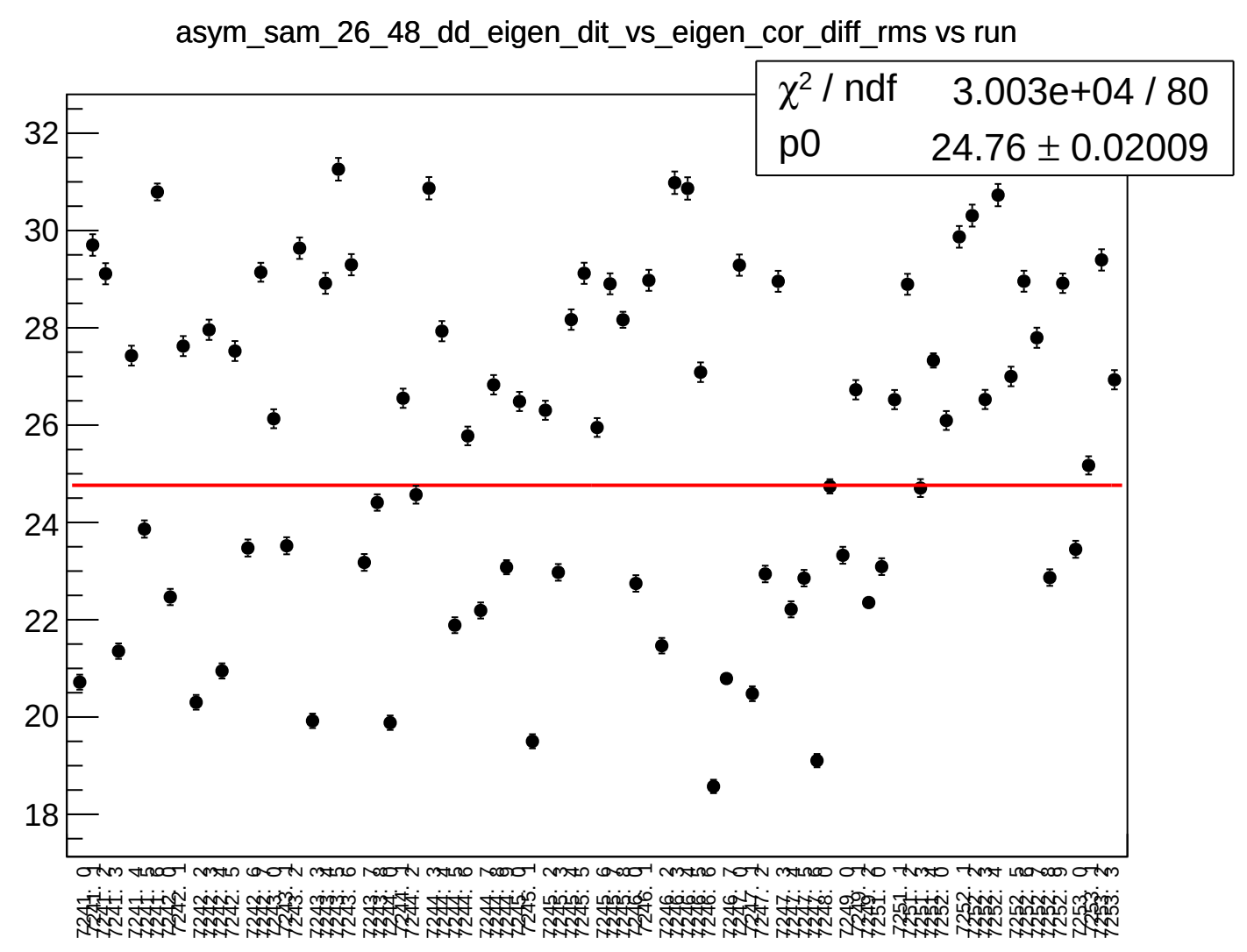

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 70.83 / 80
p0 0.0479 ± 0.02841
pull
Entries 81
Mean −45.14
Std Dev 0

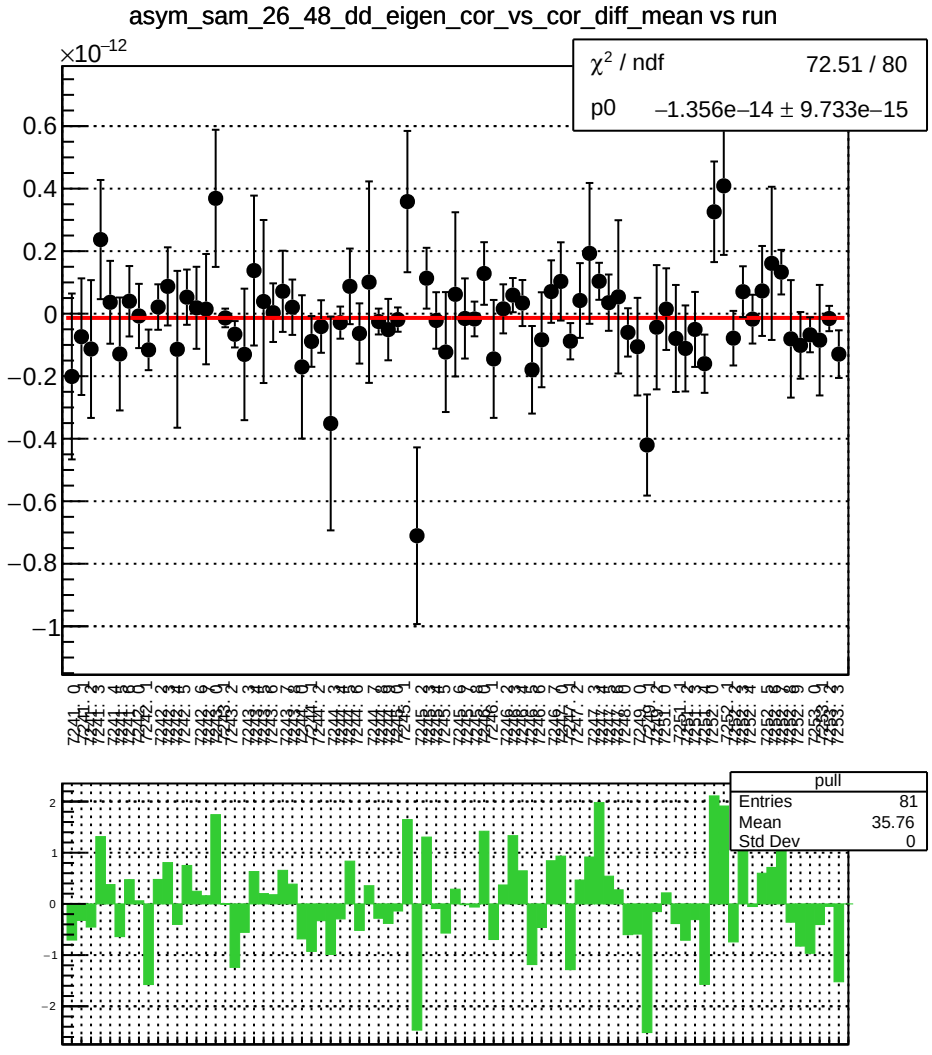

pull1D
Entries 81
Mean −0.009646
Std Dev 0.9351

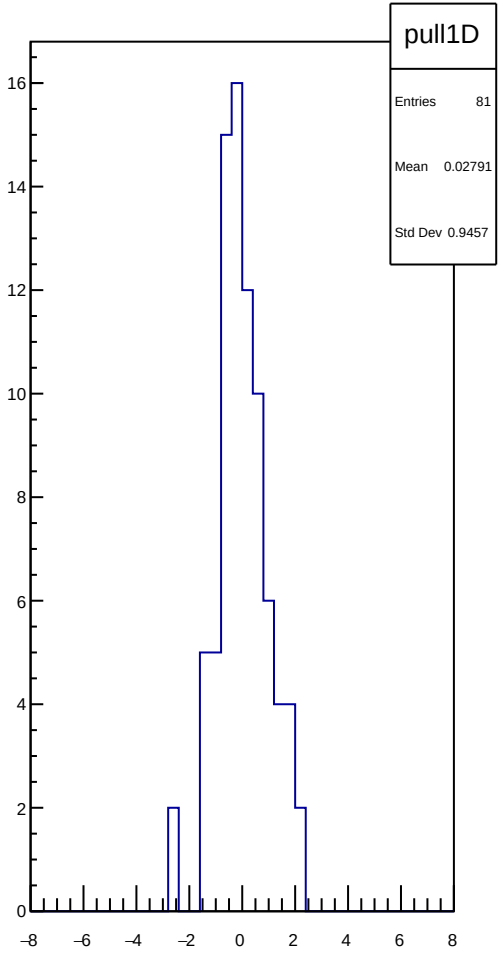

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.003e+04 / 80
p0 24.76 ± 0.02009
32
30
28
26
24
22
20
18

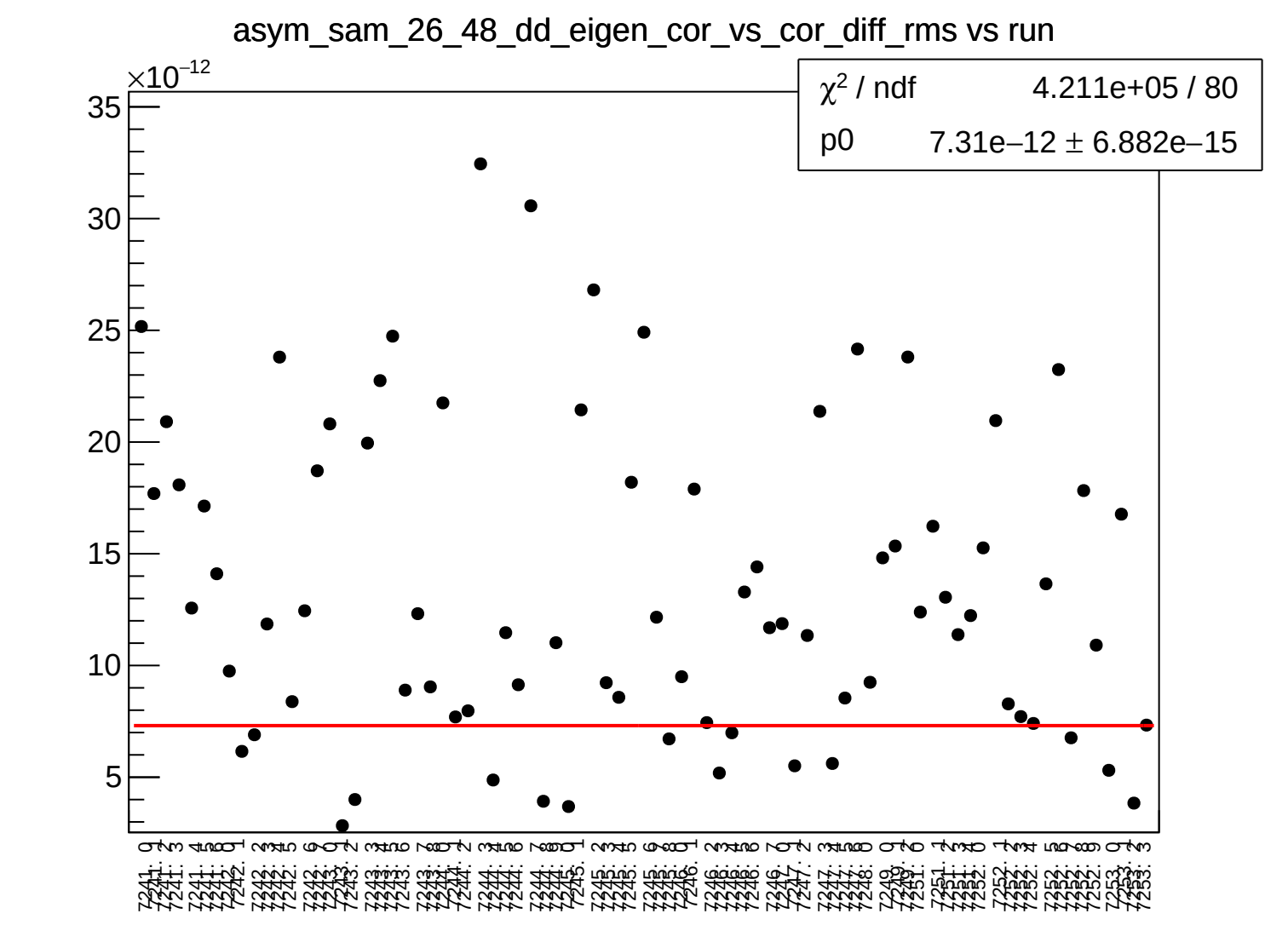

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.83 / 80
p0 0.0479 ± 0.02841
pull
Entries 81
Mean −45.14
Std Dev 0

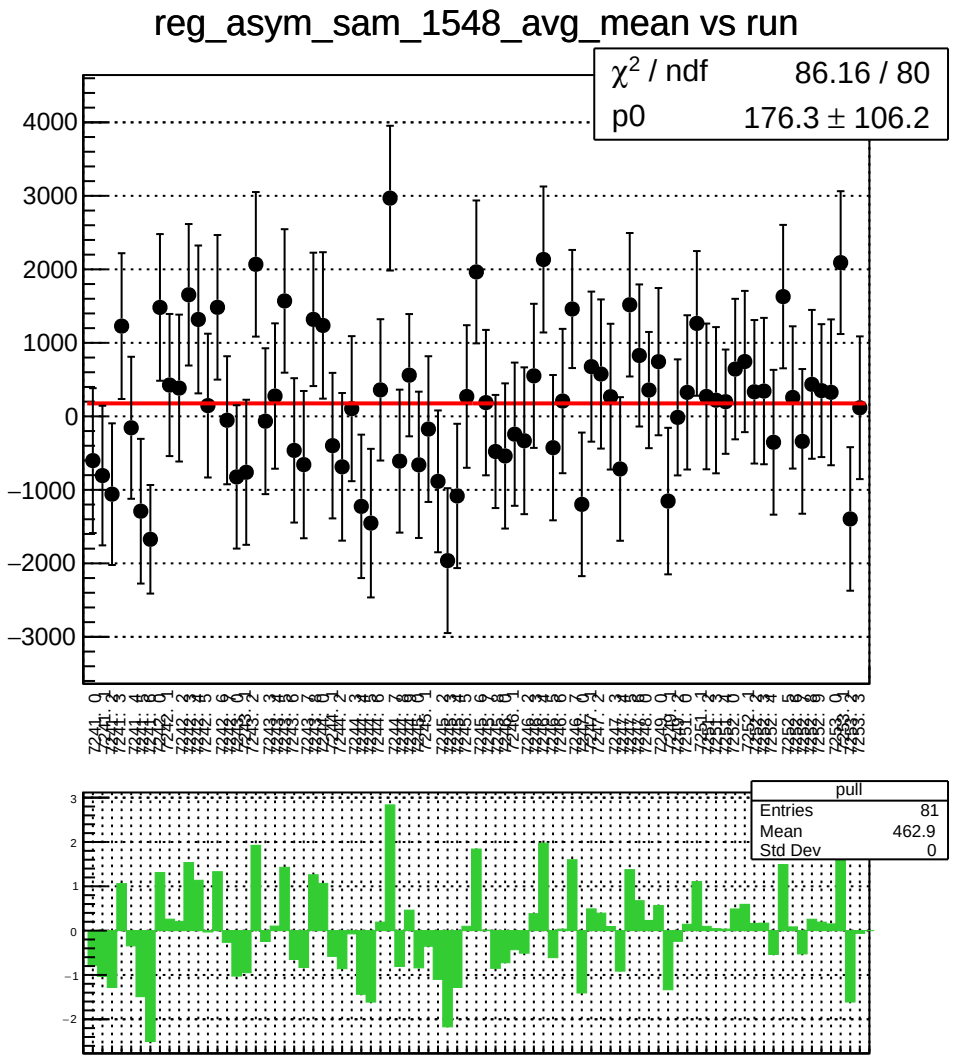

pull1D
Entries 81
Mean −0.009646
Std Dev 0.9351

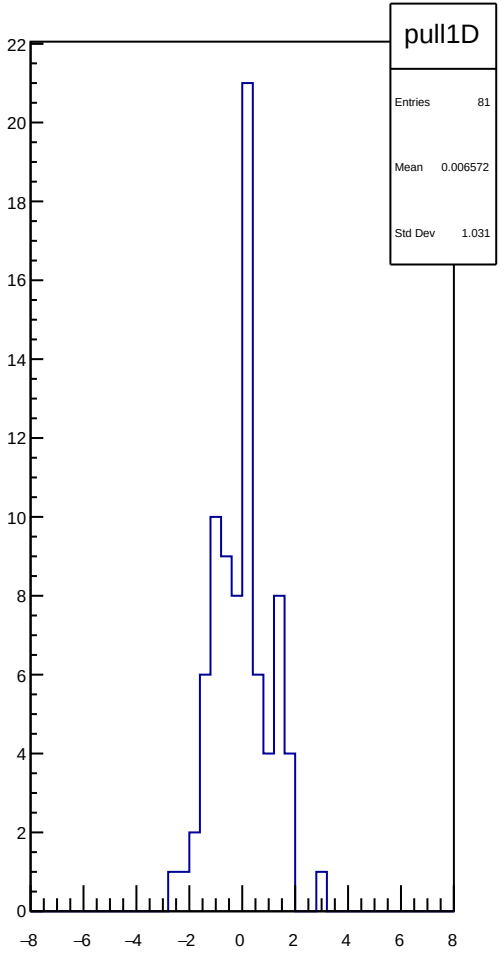

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.003e+04 / 80
p0 24.76 ± 0.02009
32
30
28
26
24
22
20
18

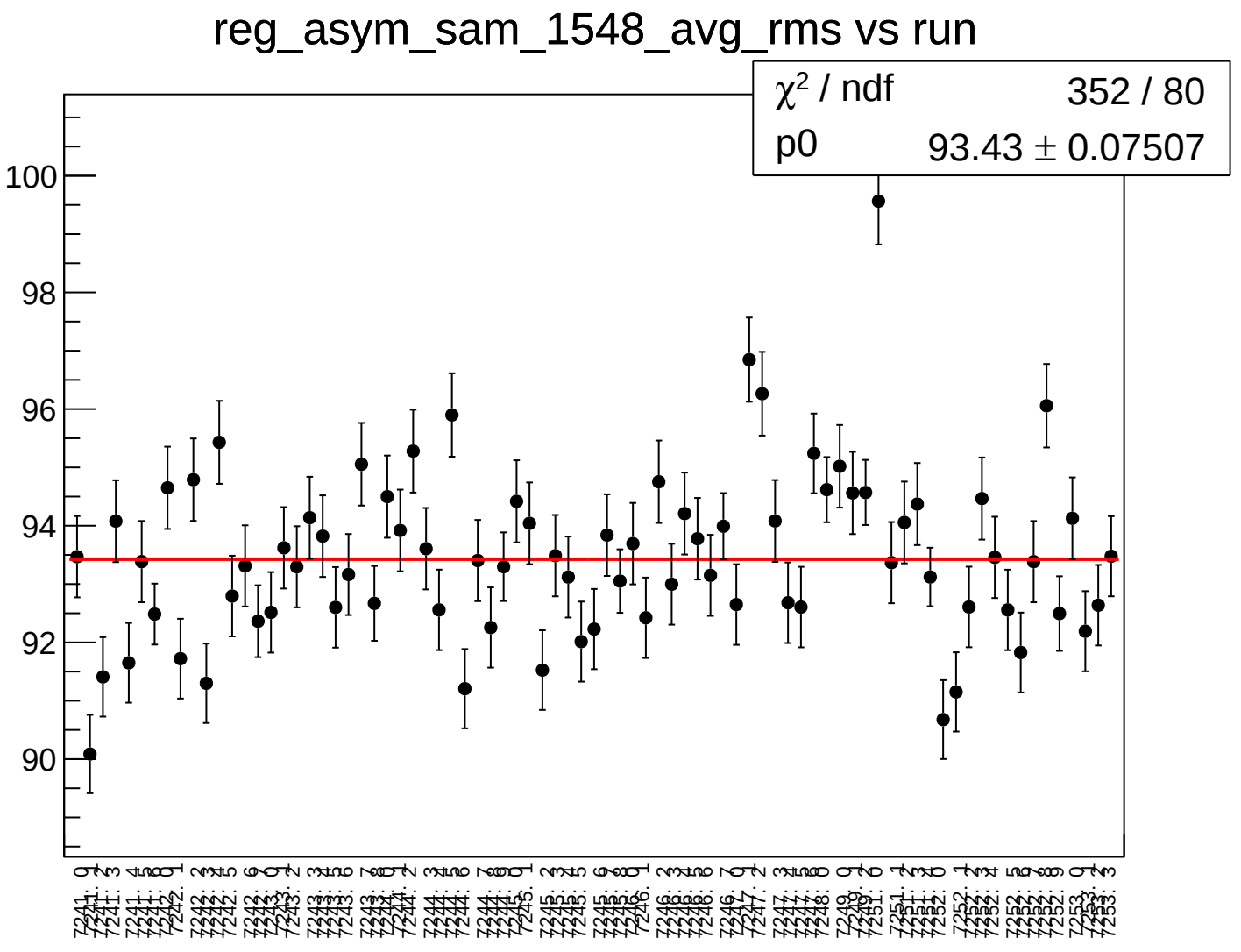

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.51 / 80
p0 −1.356e−14 ± 9.733e−15
pull
Entries 81
Mean 35.76
Std Dev 0

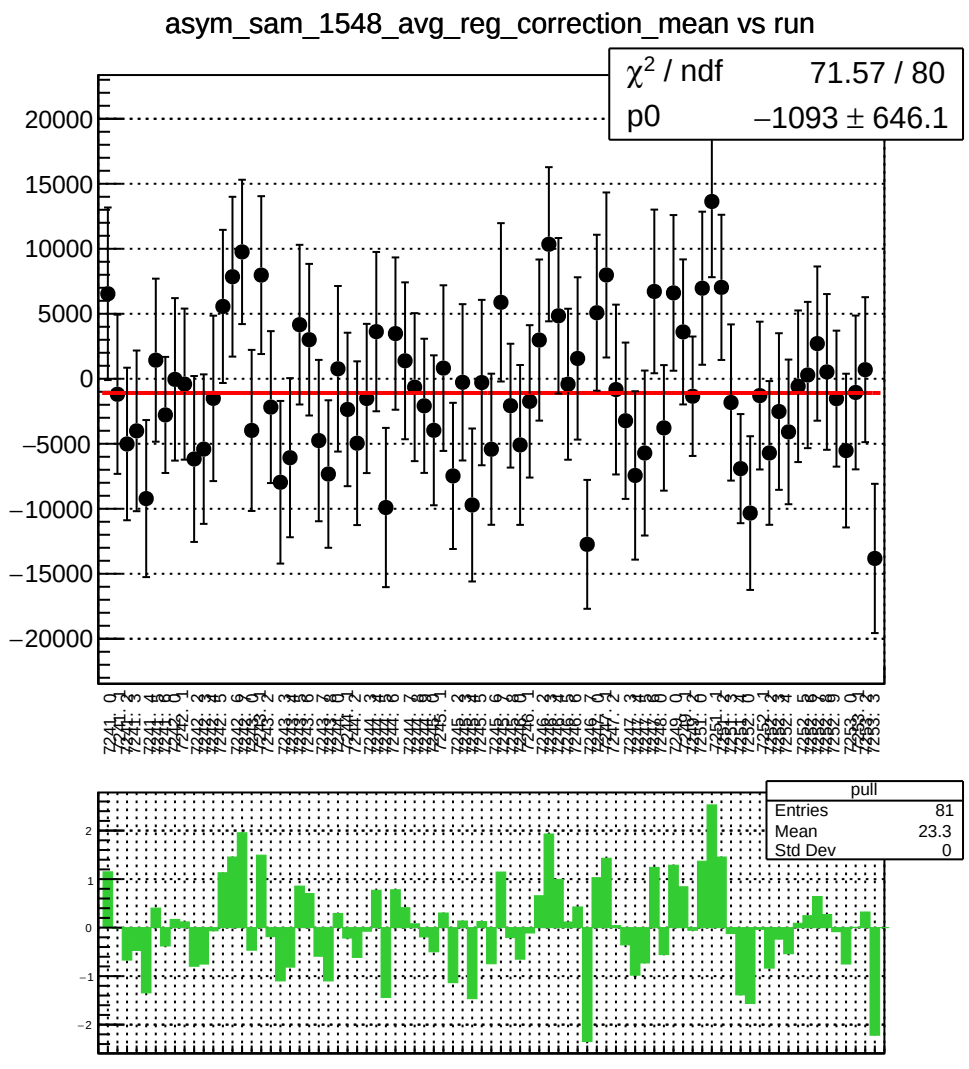

pull1D
Entries 81
Mean 0.02791
Std Dev 0.9457

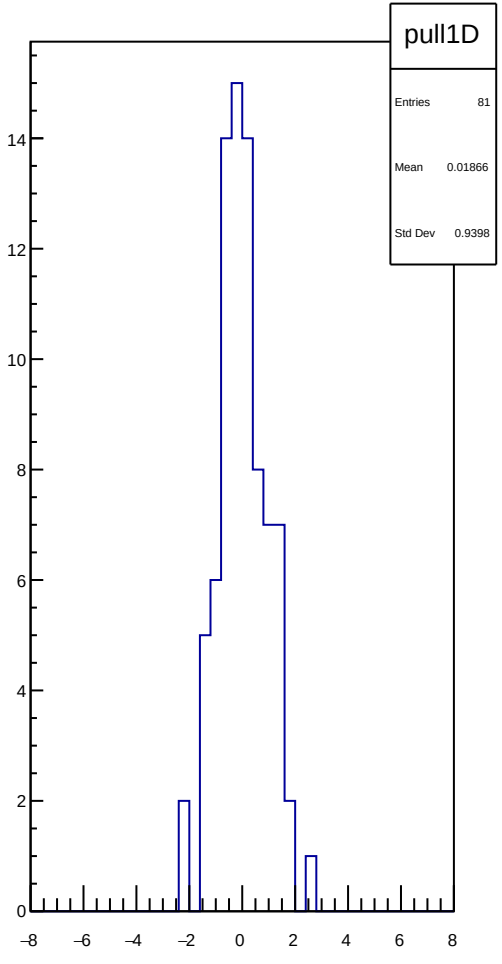

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.211e+05 / 80
p0 7.31e−12 ± 6.882e−15
35
30
25
20
15
10
5

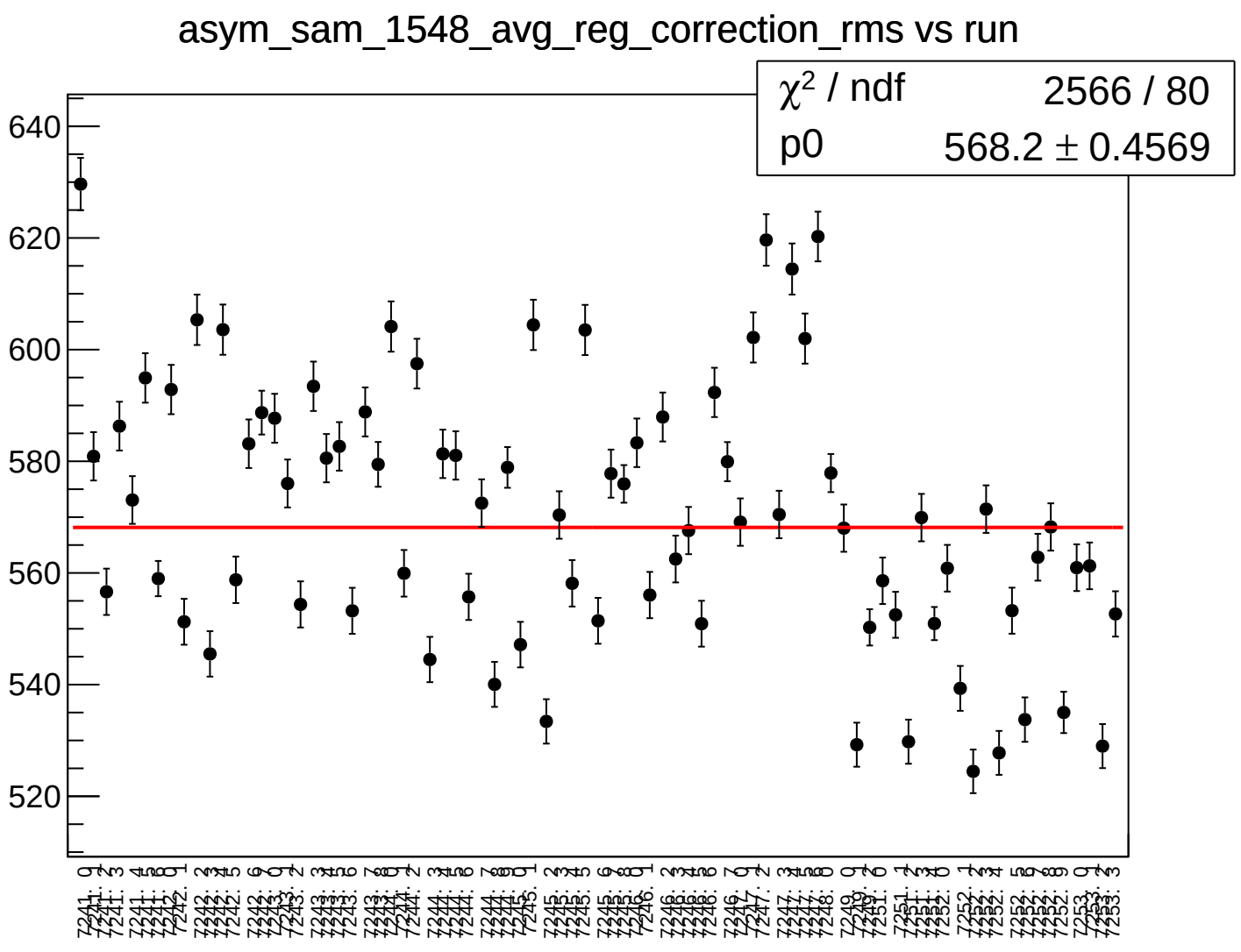

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 86.16 / 80
p0 176.3 ± 106.2
pull
Entries 81
Mean 462.9
Std Dev 0

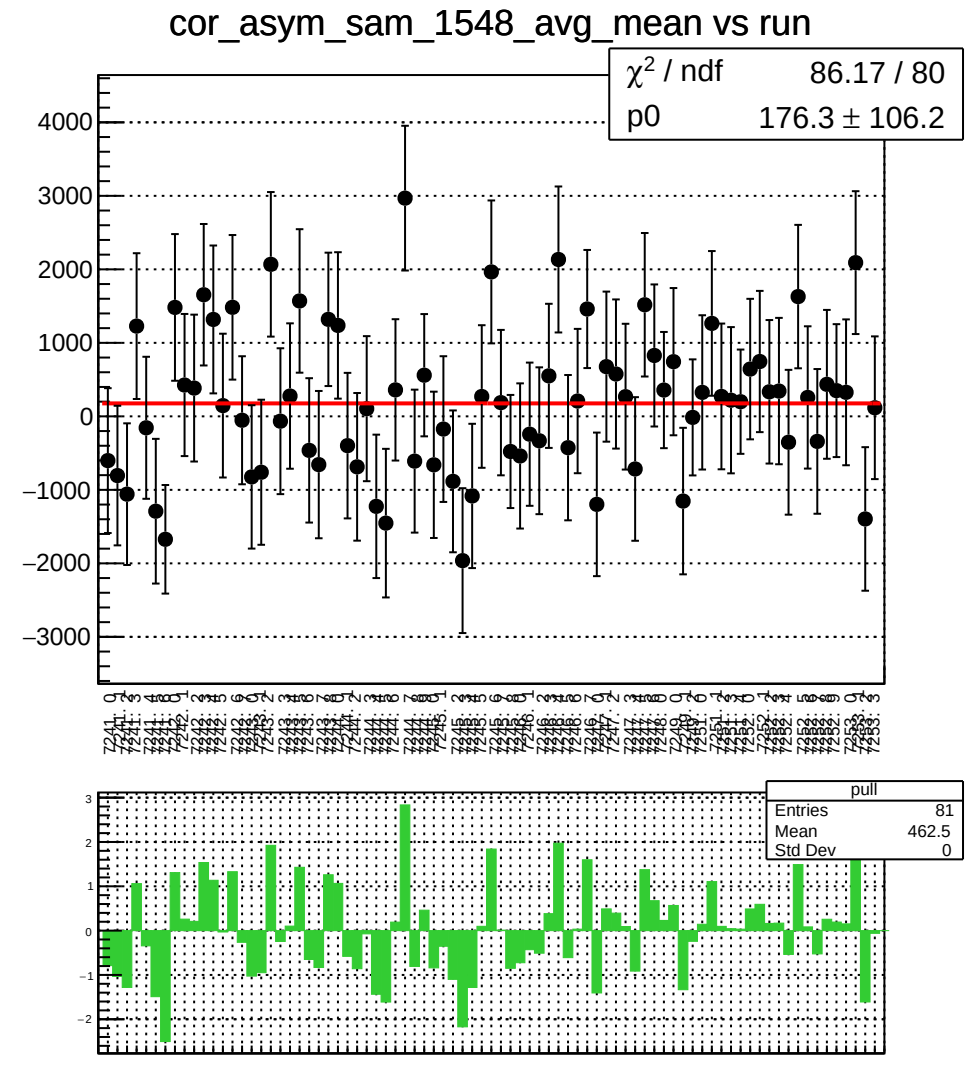

pull1D
Entries 81
Mean 0.006572
Std Dev 1.031

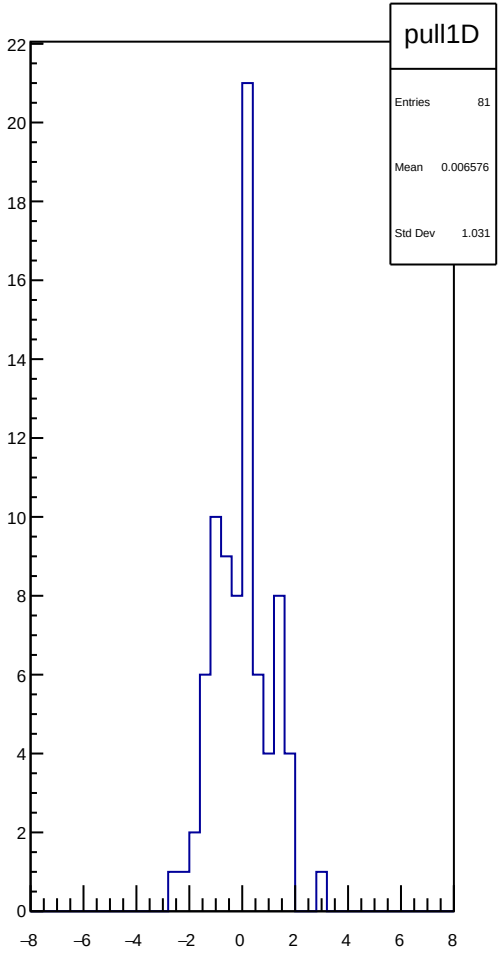

reg_asym_sam_1548_avg_rms vs run
χ^2 / ndf 352 / 80
p0 93.43 ± 0.07507
100
98
96
94
92
90

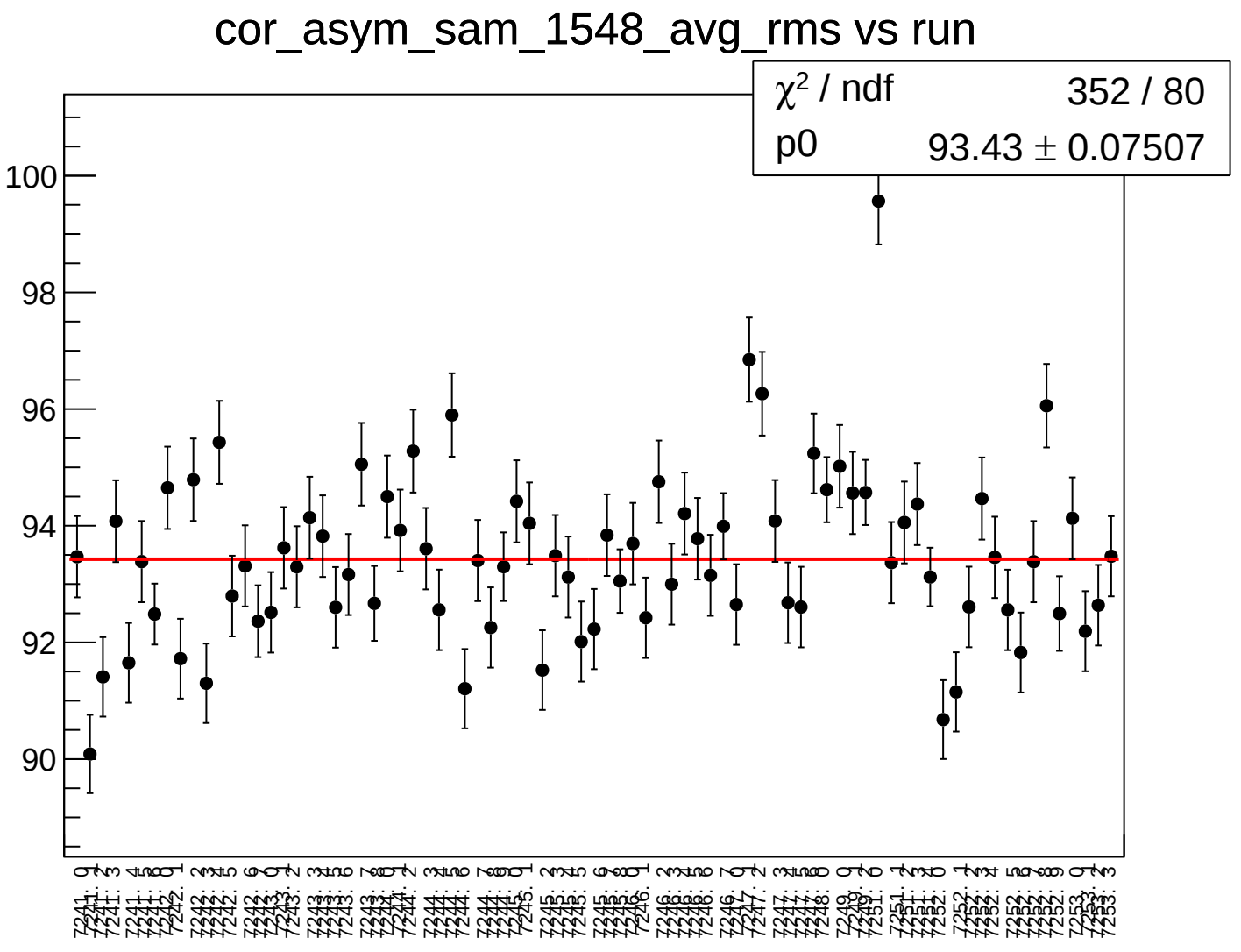

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 71.57 / 80
p0 −1093 ± 646.1
pull
Entries 81
Mean 23.3
Std Dev 0

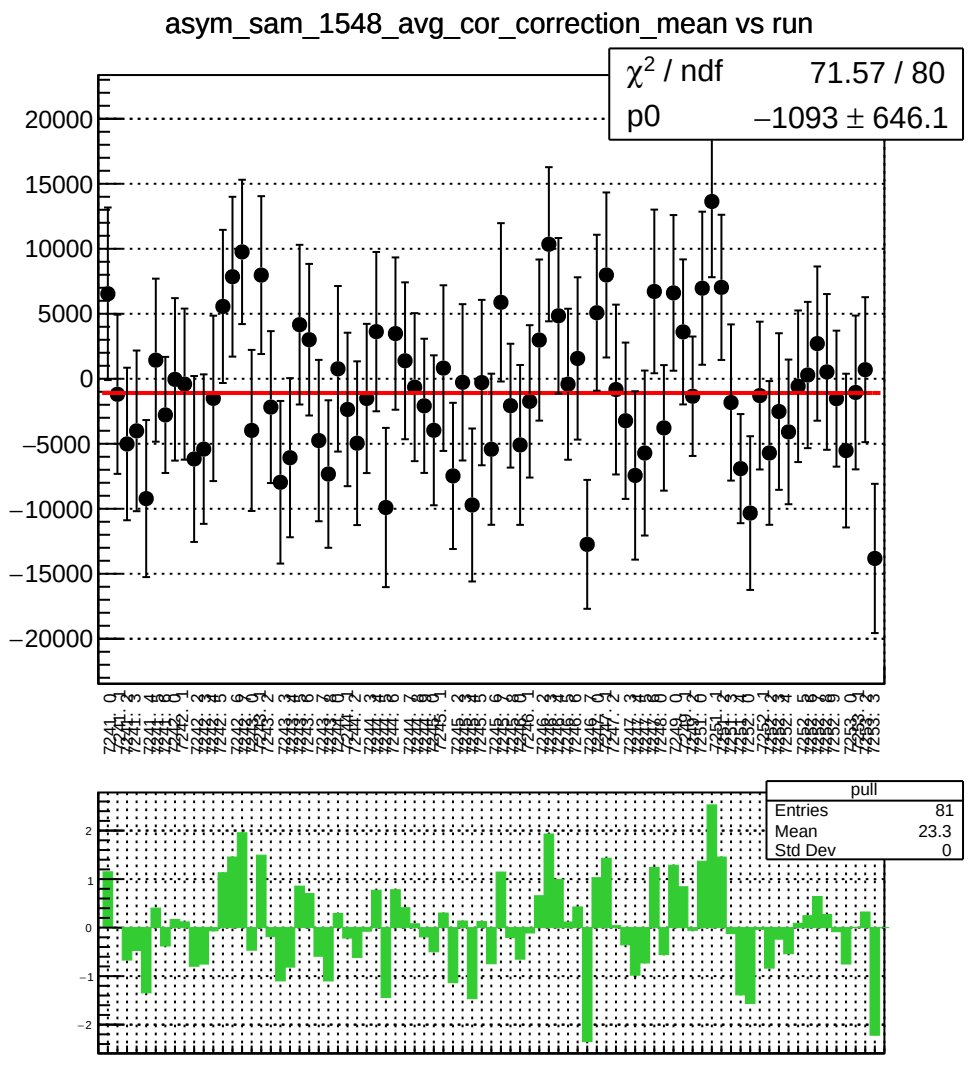

pull1D
Entries 81
Mean 0.01866
Std Dev 0.9398

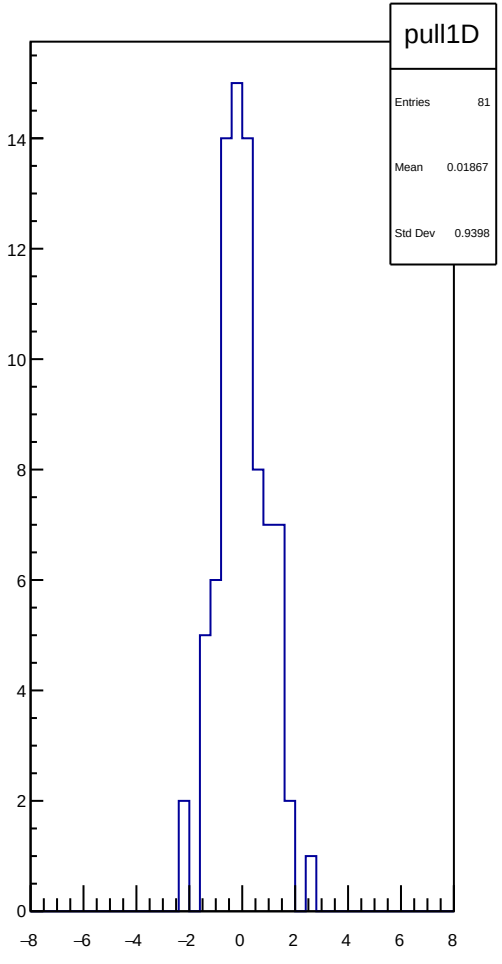

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 2566 / 80
p0 568.2 ± 0.4569
640
620
600
580
560
540
520

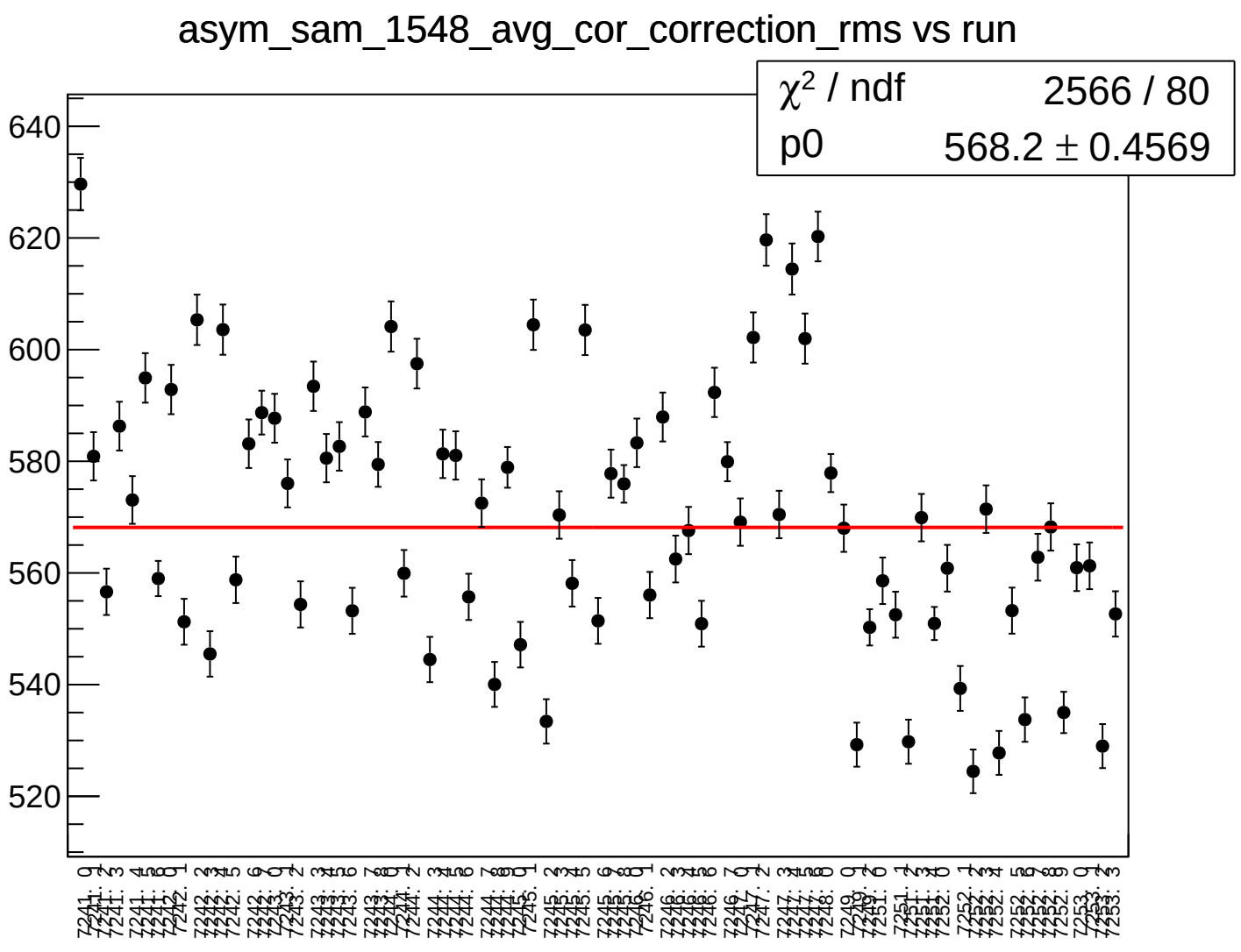

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 86.17 / 80
p0 176.3 ± 106.2
pull
Entries 81
Mean 462.5
Std Dev 0

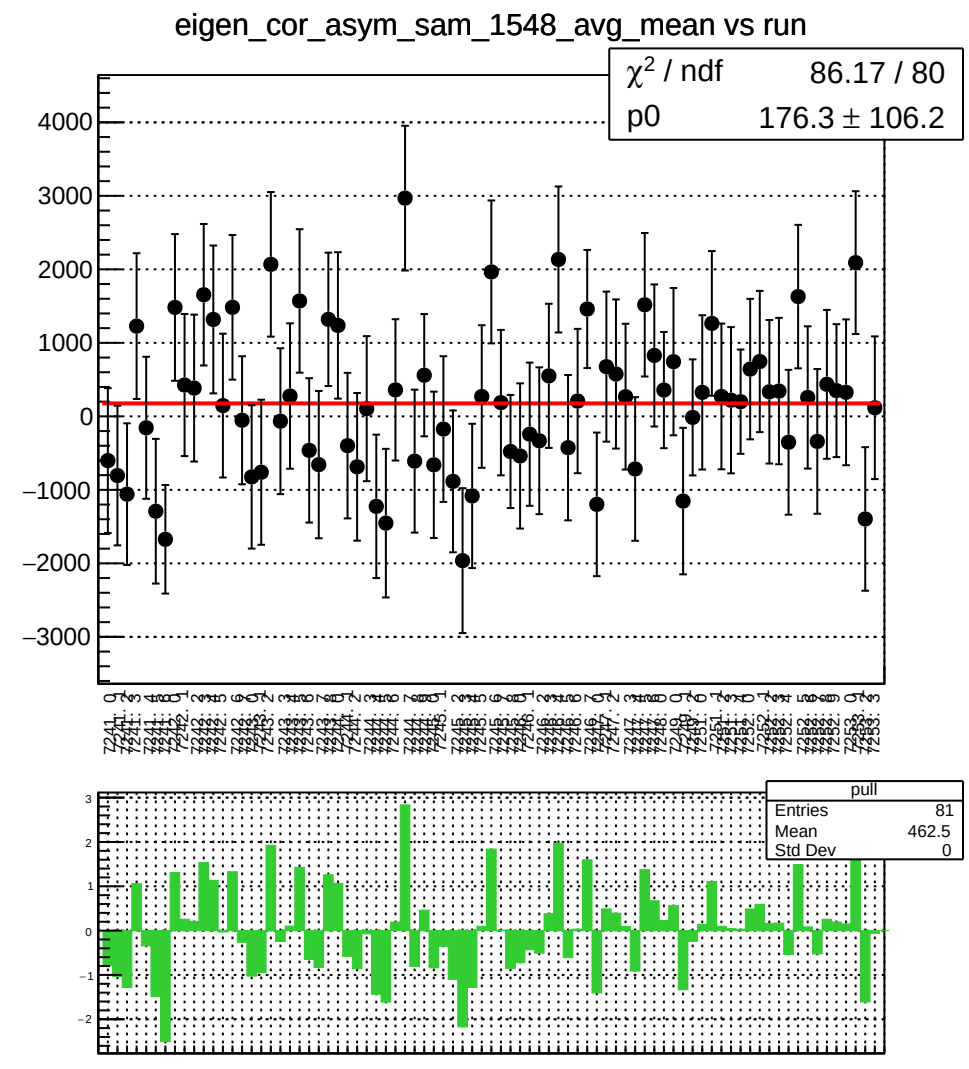

pull1D
Entries 81
Mean 0.006576
Std Dev 1.031

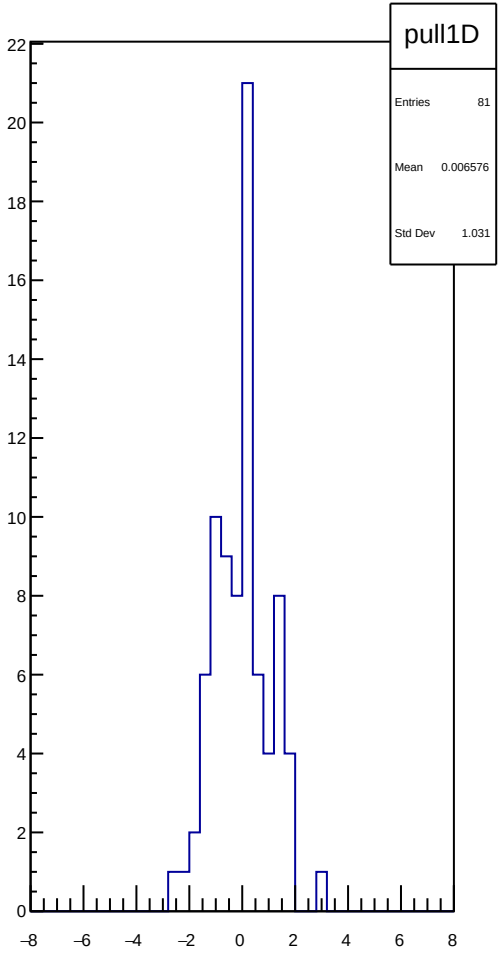

cor_asym_sam_1548_avg_rms vs run
χ^2 / ndf 352 / 80
p0 93.43 ± 0.07507
100
98
96
94
92
90

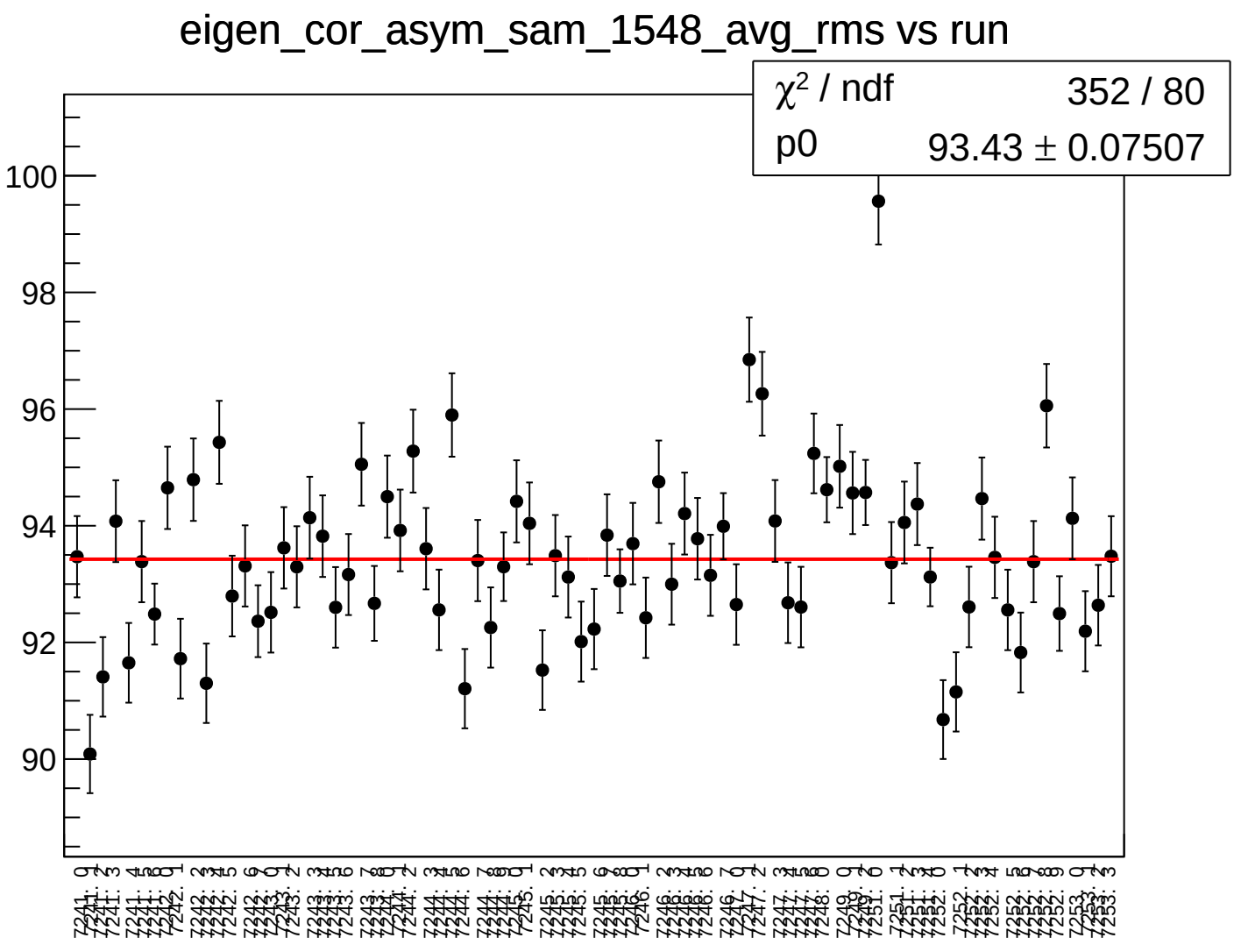

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 71.57 / 80
p0 −1093 ± 646.1
pull
Entries 81
Mean 23.3
Std Dev 0

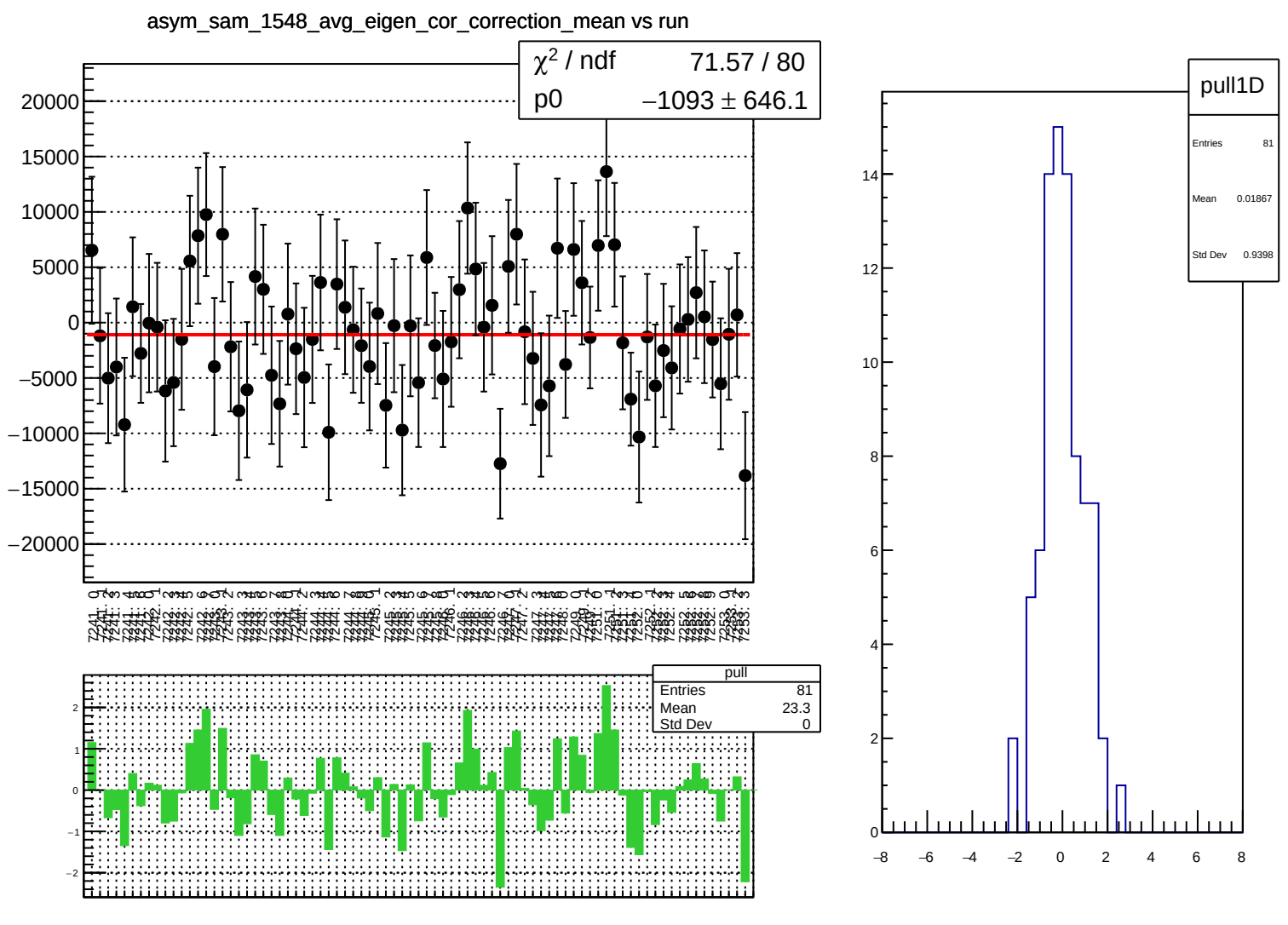

pull1D
Entries 81
Mean 0.01867
Std Dev 0.9398

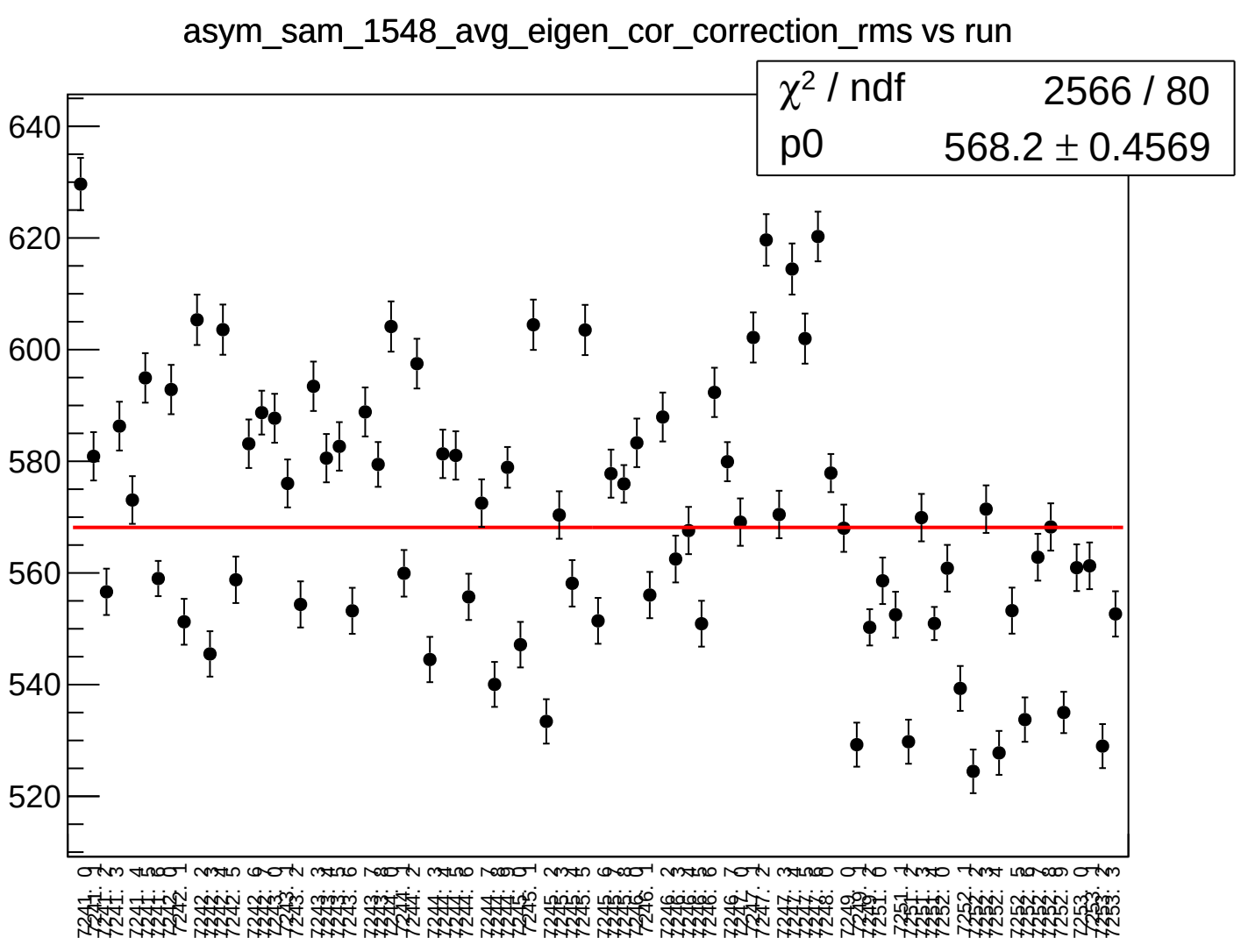

asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 2566 / 80
p0 568.2 ± 0.4569
640
620
600
580
560
540
520

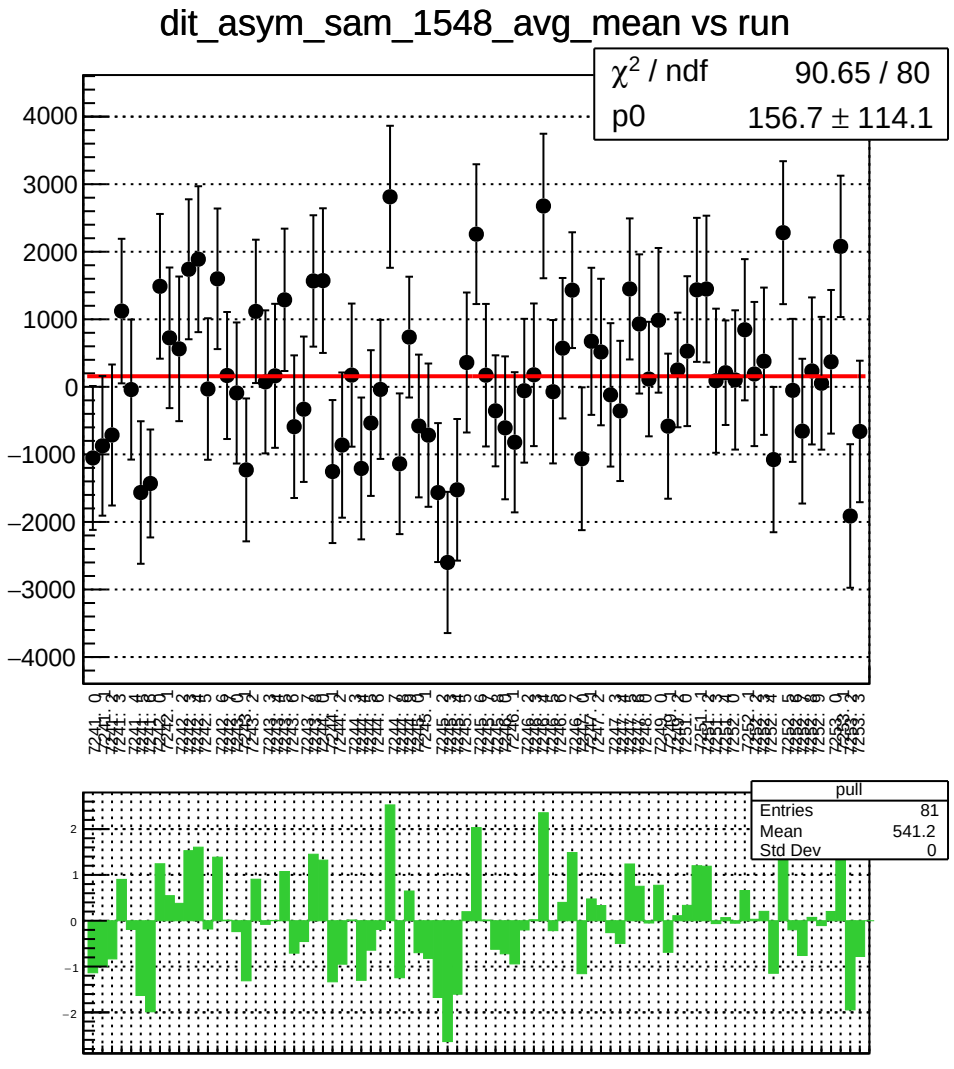

eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 86.17 / 80
p0 176.3 ± 106.2
pull
Entries 81
Mean 462.5
Std Dev 0

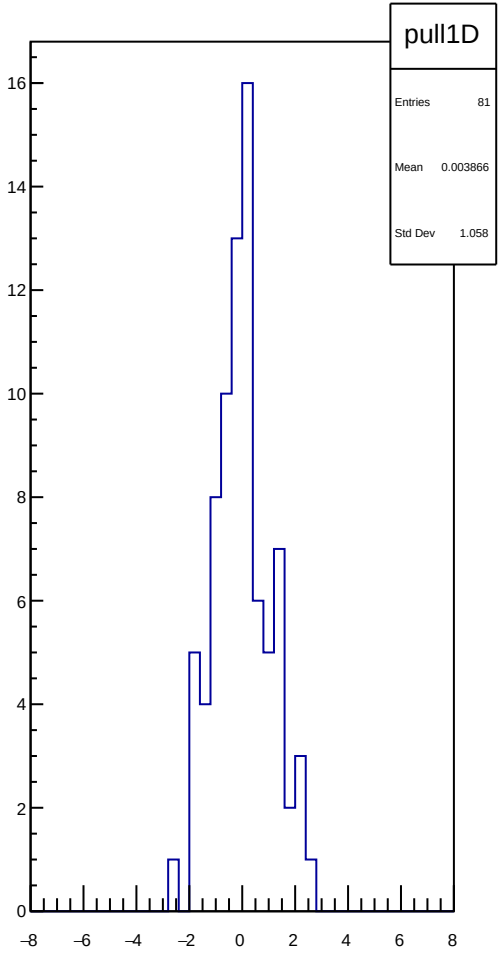

pull1D
Entries 81
Mean 0.006576
Std Dev 1.031

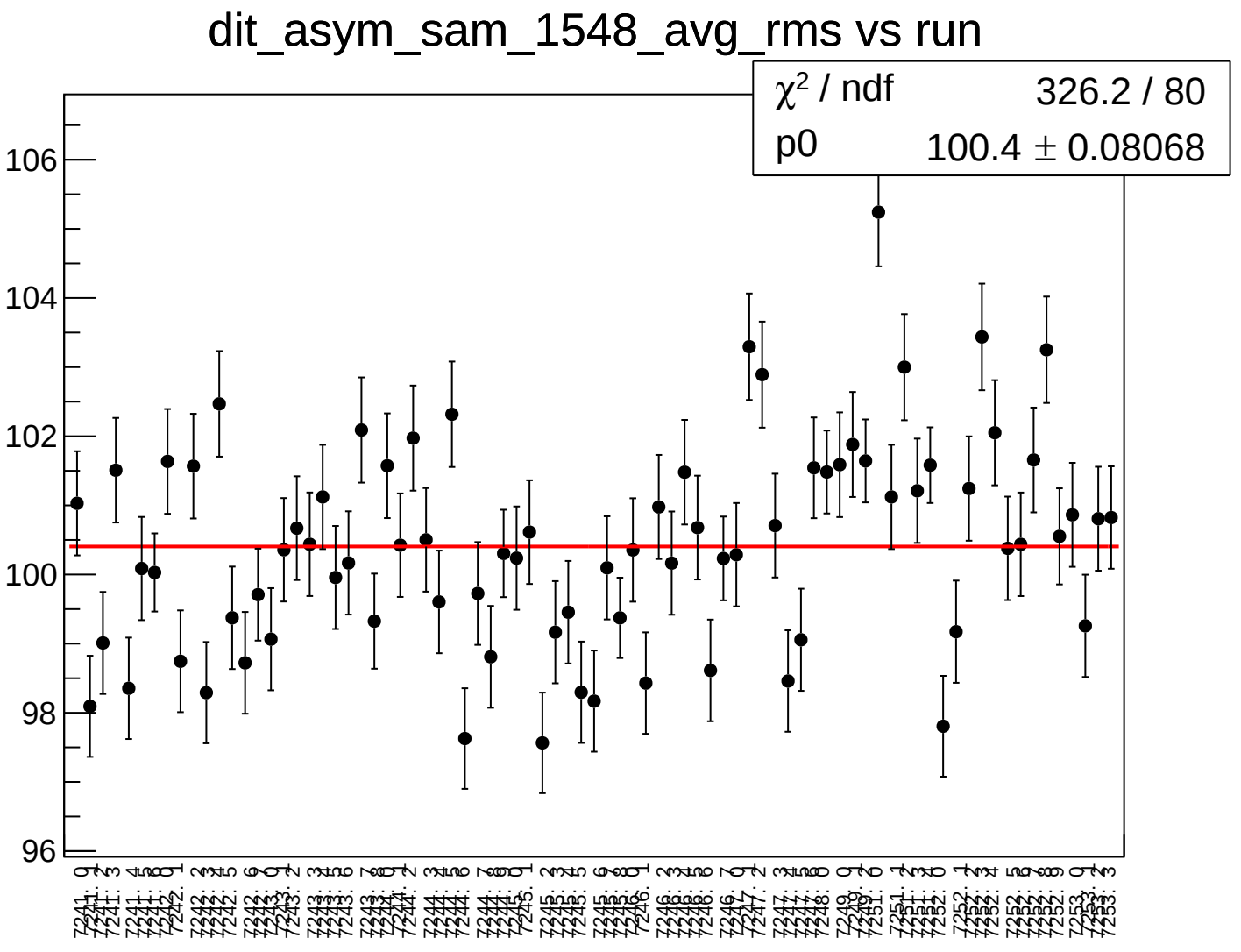

eigen_cor_asym_sam_1548_avg_rms vs run
χ^2 / ndf 352 / 80
p0 93.43 ± 0.07507
100
98
96
94
92
90

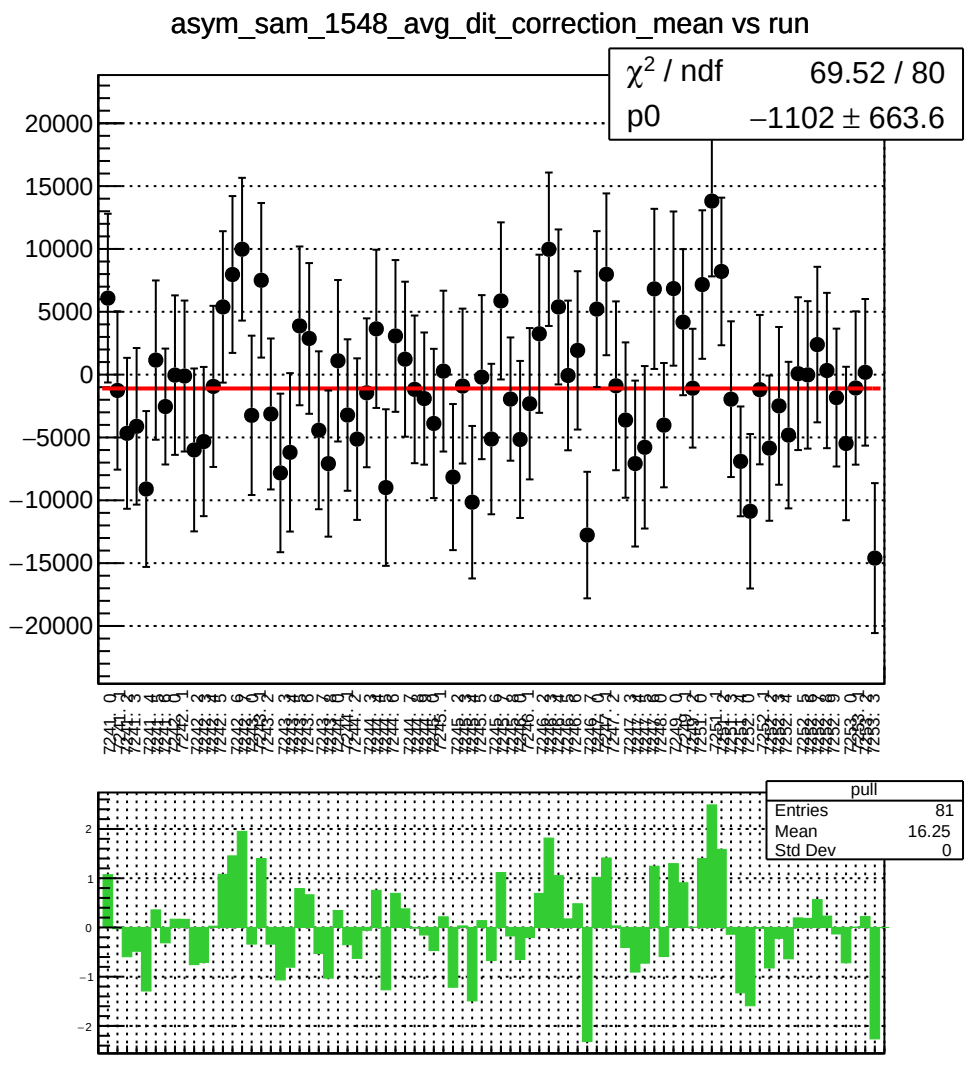

asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 71.57 / 80
p0 −1093 ± 646.1
pull
Entries 81
Mean 23.3
Std Dev 0
pull1D
Entries 81
Mean 0.01867
Std Dev 0.9398

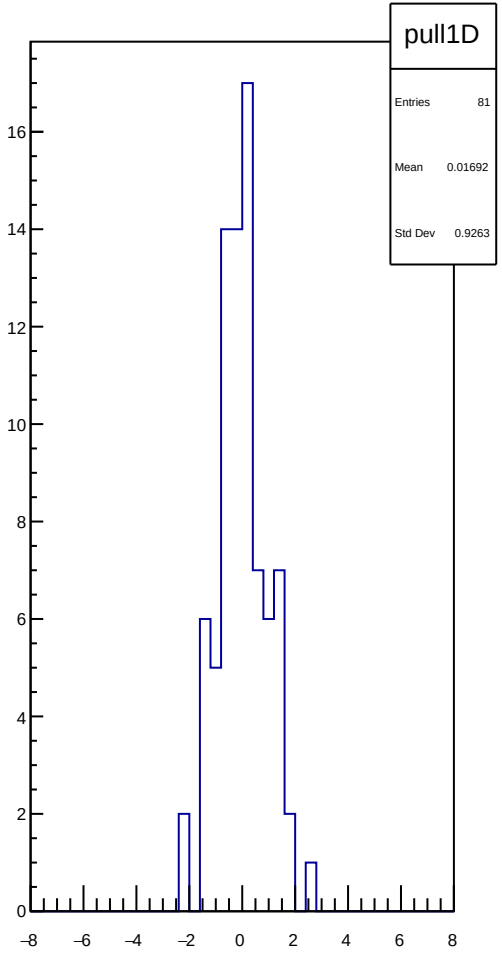

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 2566 / 80
p0 568.2 ± 0.4569
640
620
600
580
560
540
520

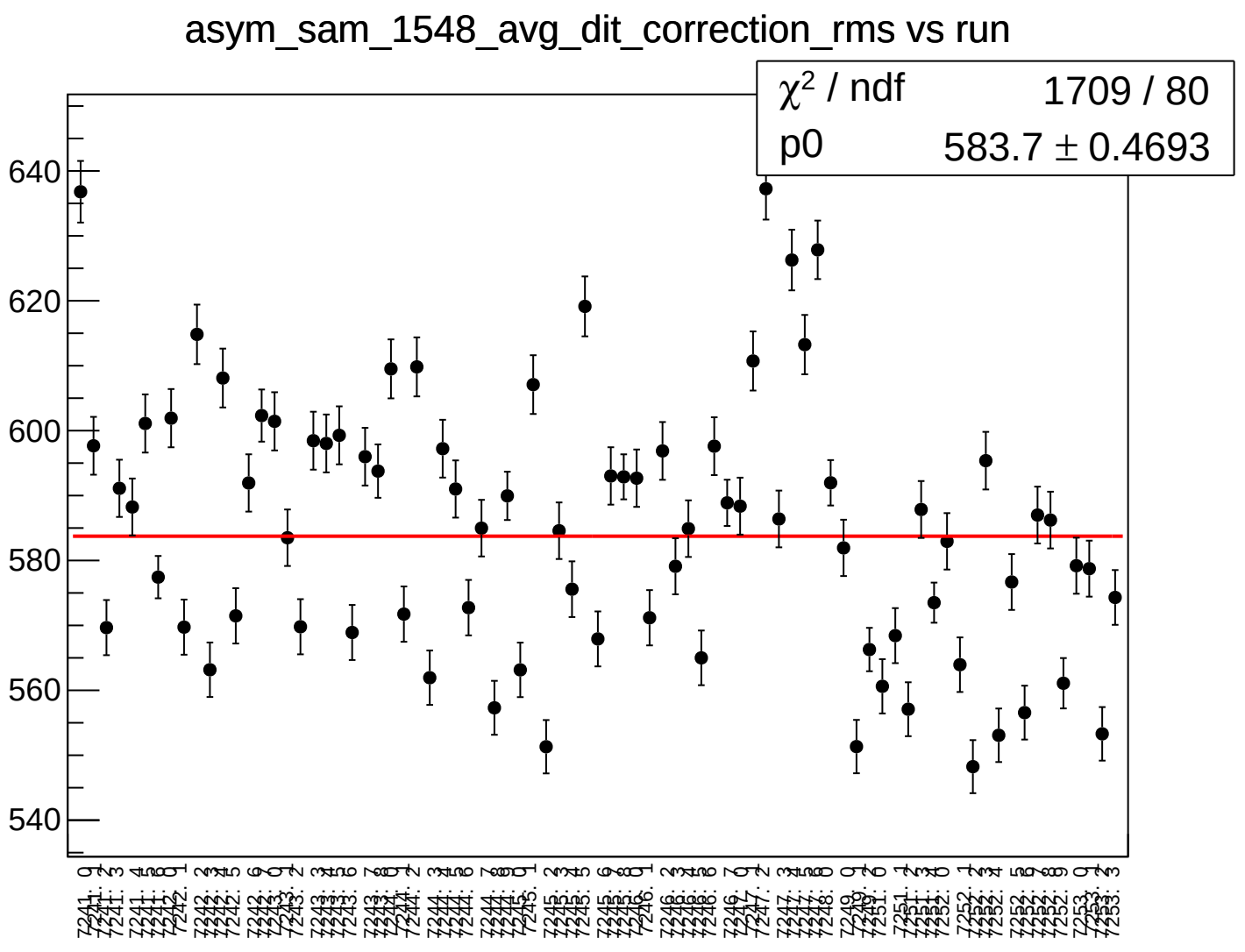

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 90.65 / 80
p0 156.7 ± 114.1
pull
Entries 81
Mean 541.2
Std Dev 0

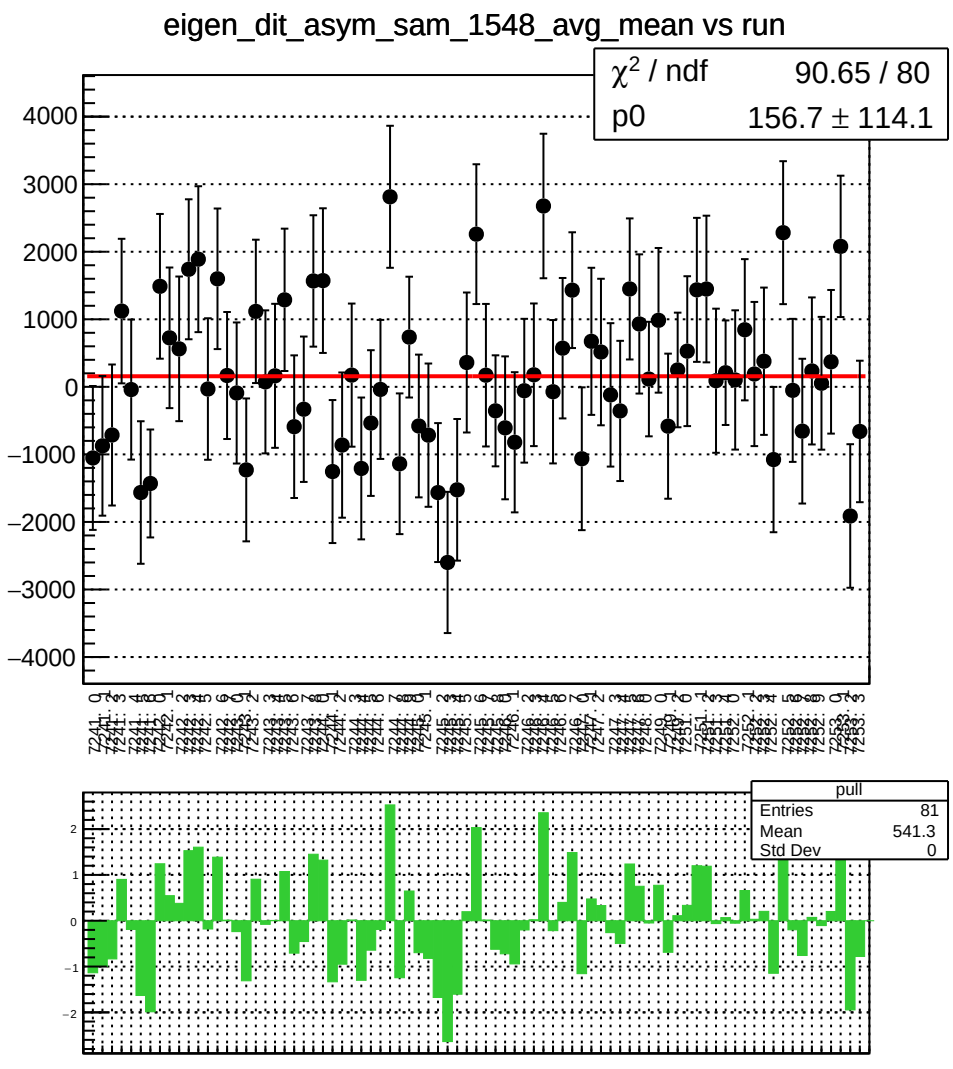

pull1D
Entries 81
Mean 0.003866
Std Dev 1.058

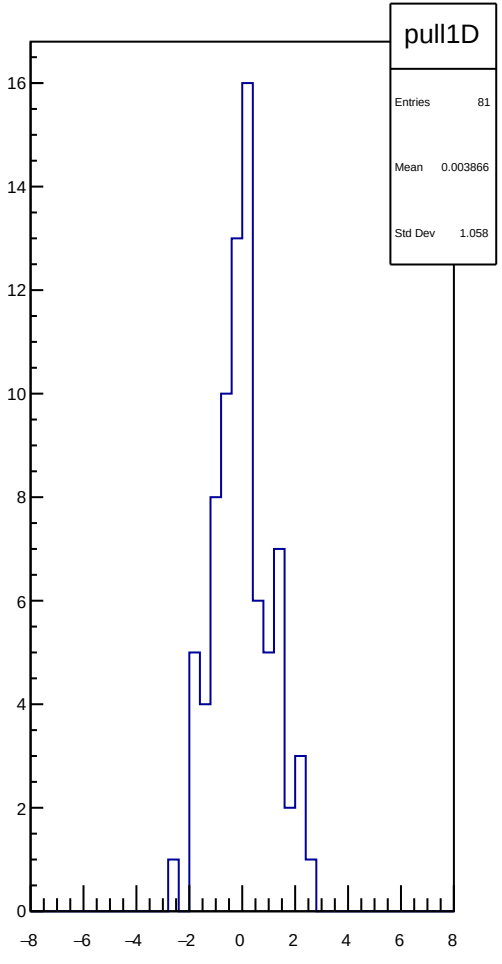

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 326.2 / 80
p0 100.4 ± 0.08068
106
104
102
100
98
96

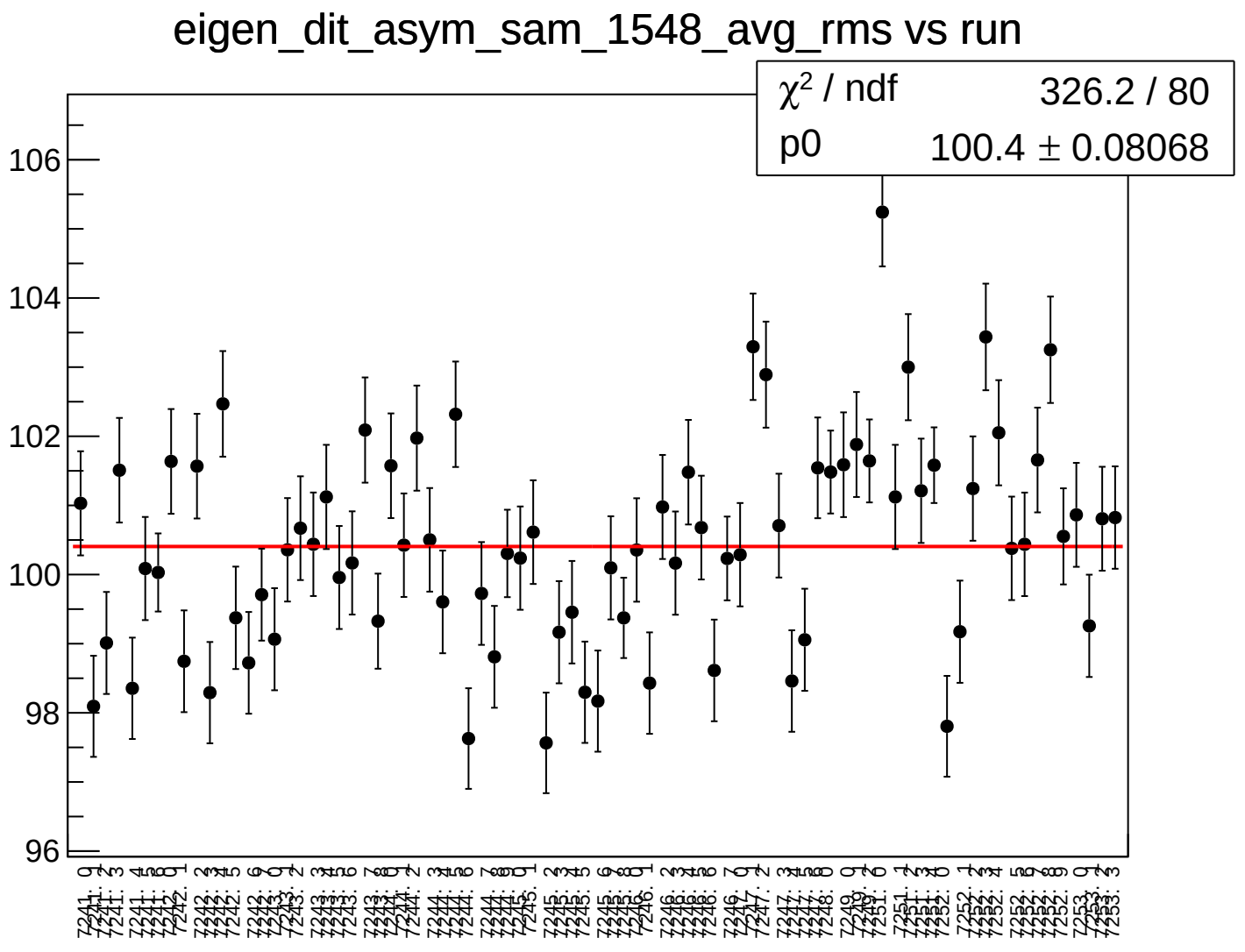

asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 69.52 / 80
p0 −1102 ± 663.6
pull
Entries 81
Mean 16.25
Std Dev 0

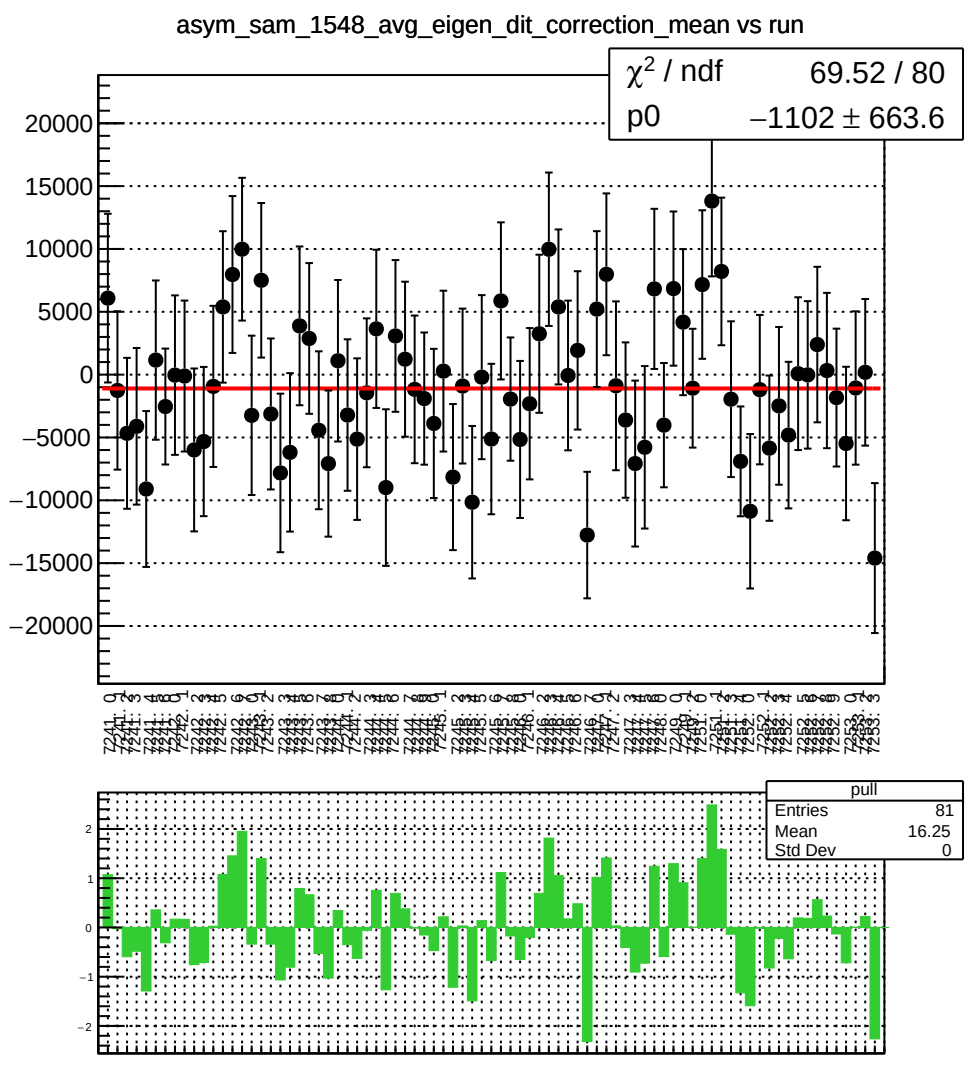

pull1D
Entries 81
Mean 0.01692
Std Dev 0.9263

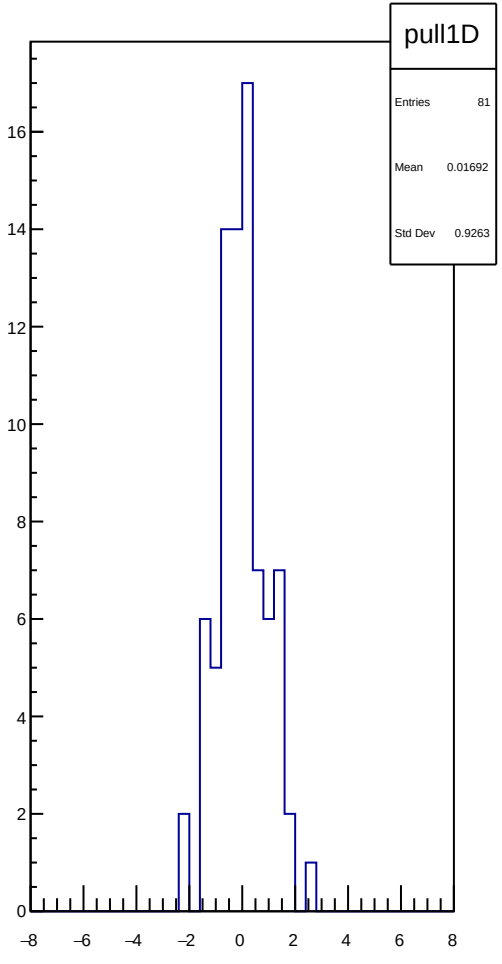

asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 1709 / 80
p0 583.7 ± 0.4693
640
620
600
580
560
540

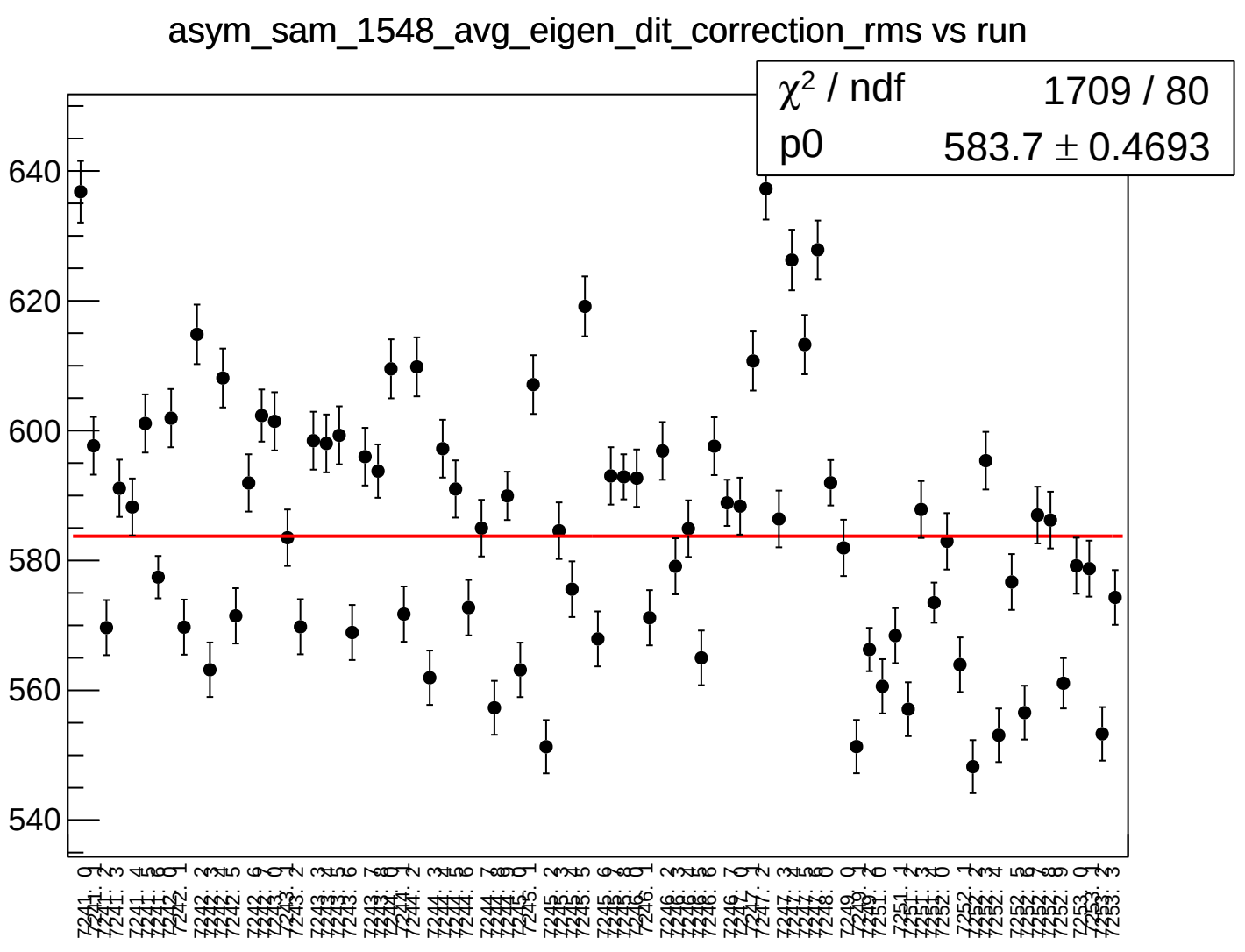

eigen_dit_asym_sam_1548_avg_mean vs run
χ² / ndf 90.65 / 80
p0 156.7 ± 114.1
pull
Entries 81
Mean 541.3
Std Dev 0

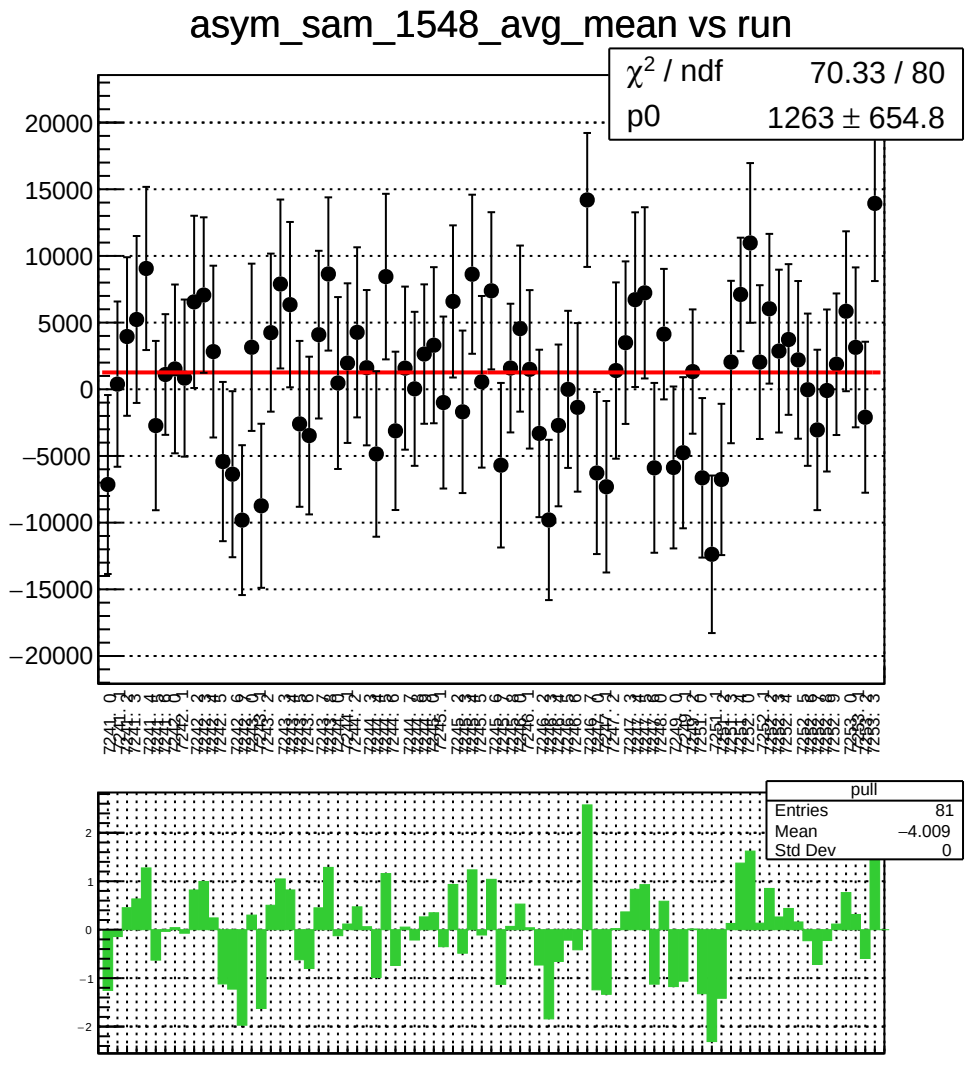

pull1D
Entries 81
Mean 0.003866
Std Dev 1.058

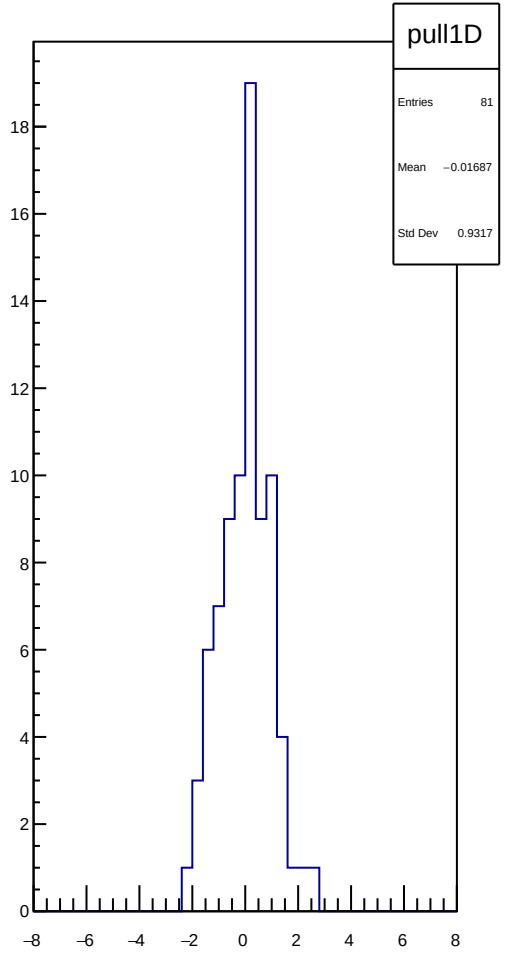

eigen_dit_asym_sam_1548_avg_rms vs run
χ² / ndf 326.2 / 80
p0 100.4 ± 0.08068
106
104
102
100
98
96

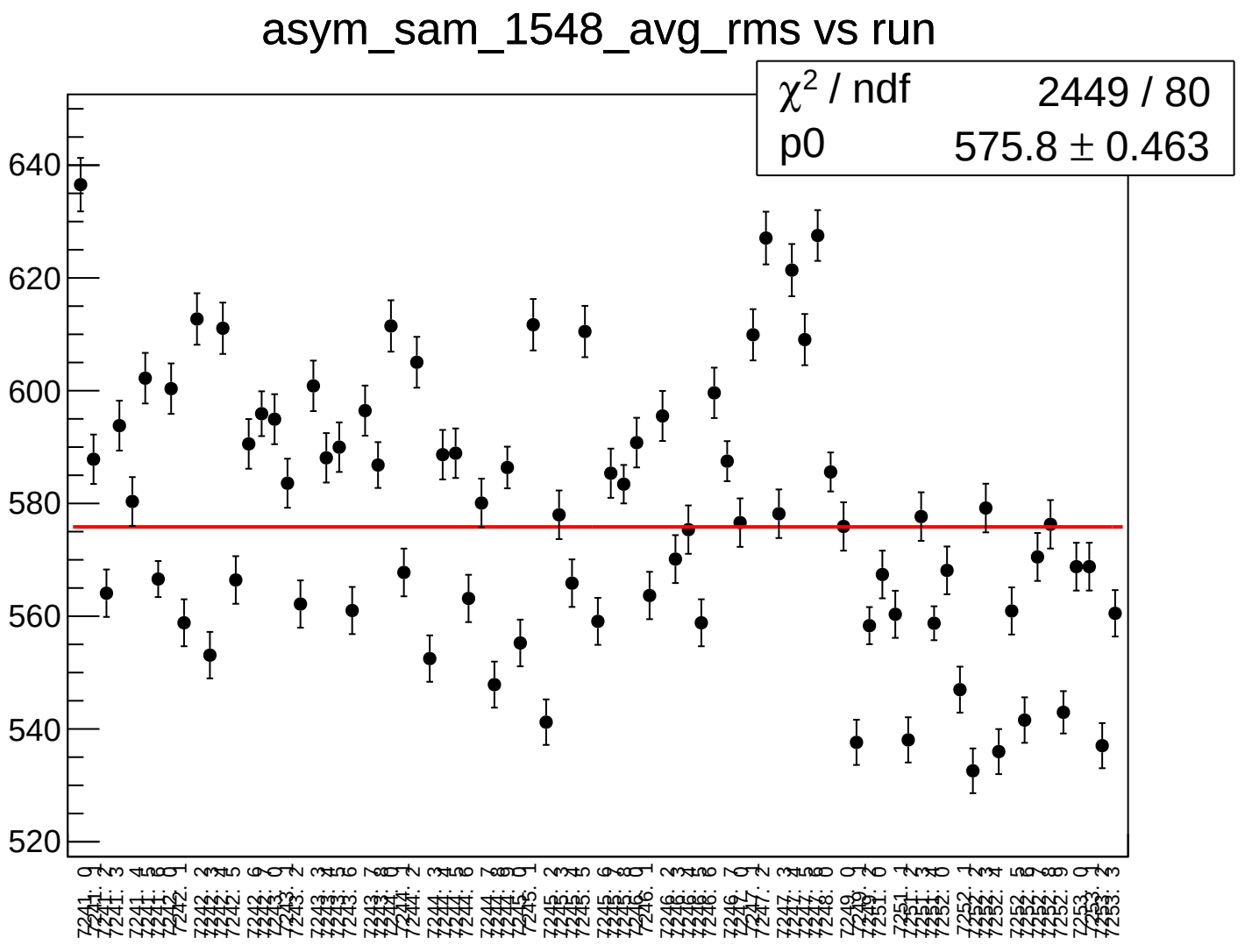

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 69.52 / 80
p0 −1102 ± 663.6
pull
Entries 81
Mean 16.25
Std Dev 0

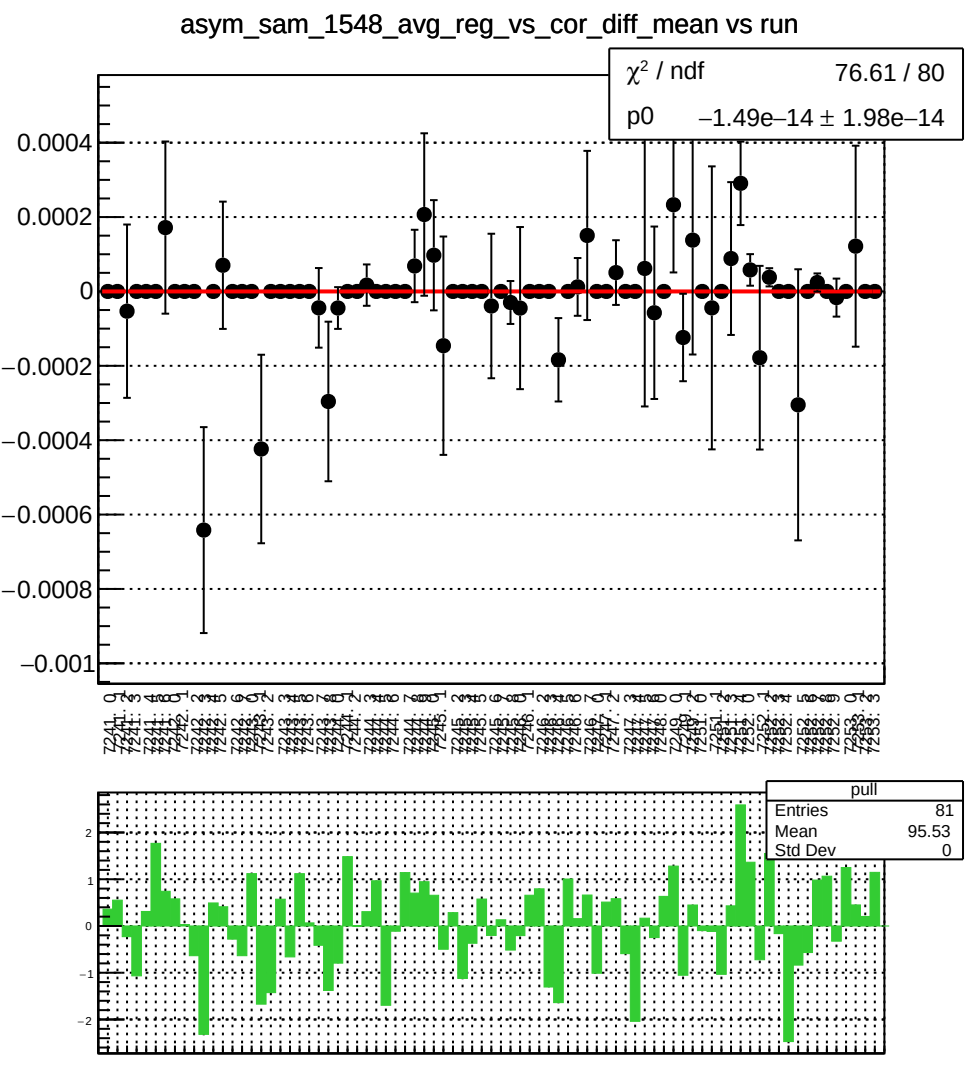

pull1D
Entries 81
Mean 0.01692
Std Dev 0.9263

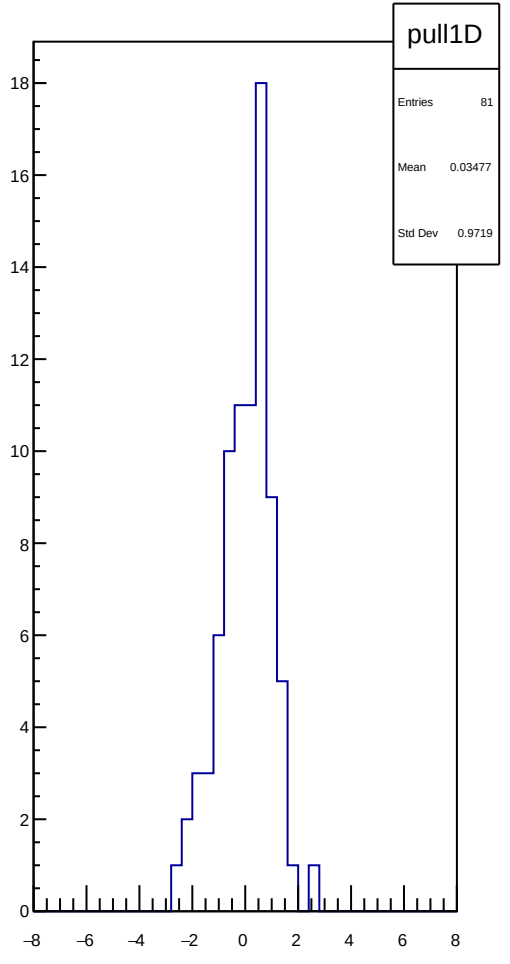

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 1709 / 80
p0 583.7 ± 0.4693
640
620
600
580
560
540

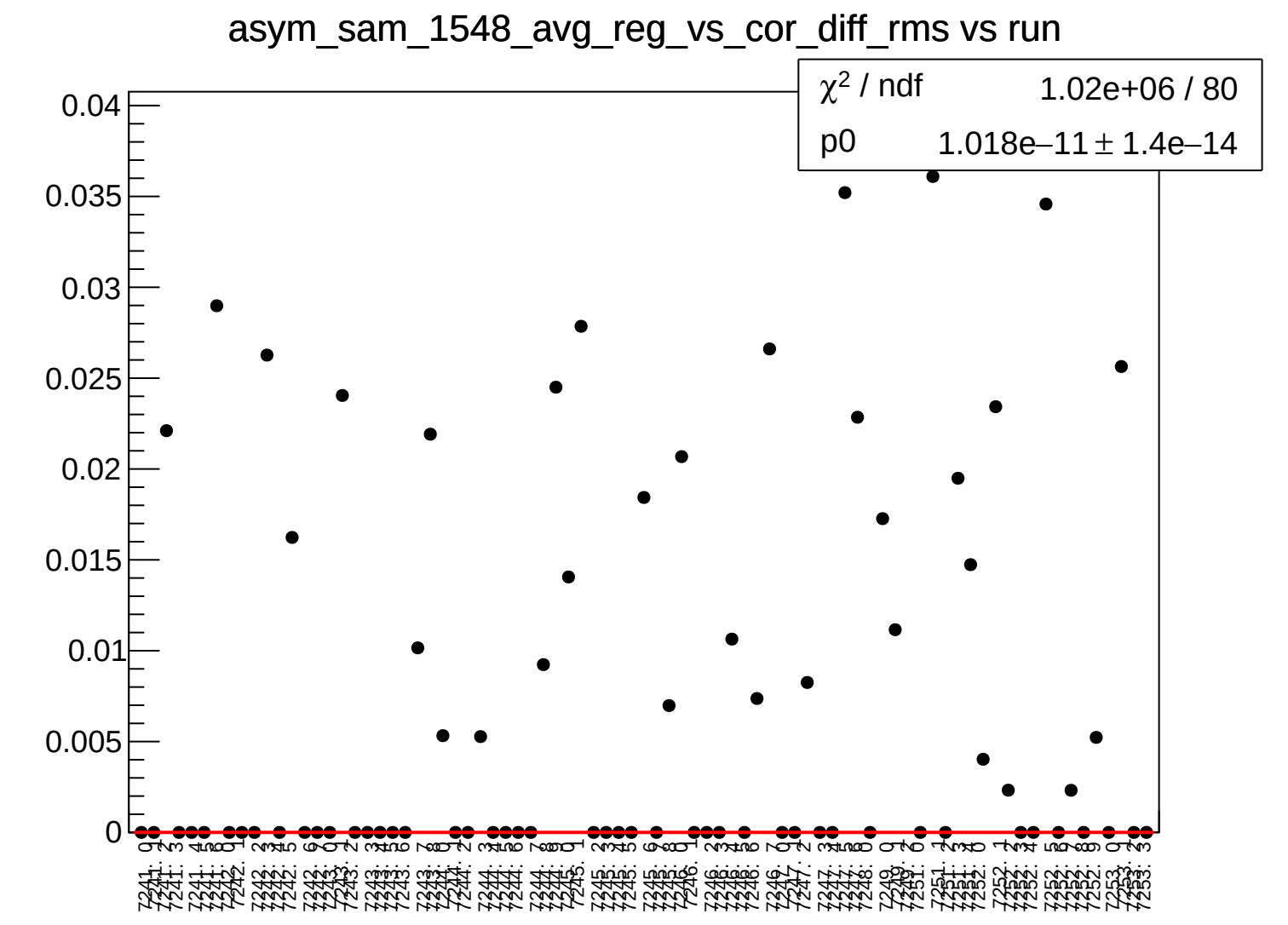

asym_sam_1548_avg_mean vs run
χ² / ndf 70.33 / 80
p0 1263 ± 654.8
pull
Entries 81
Mean −4.009
Std Dev 0

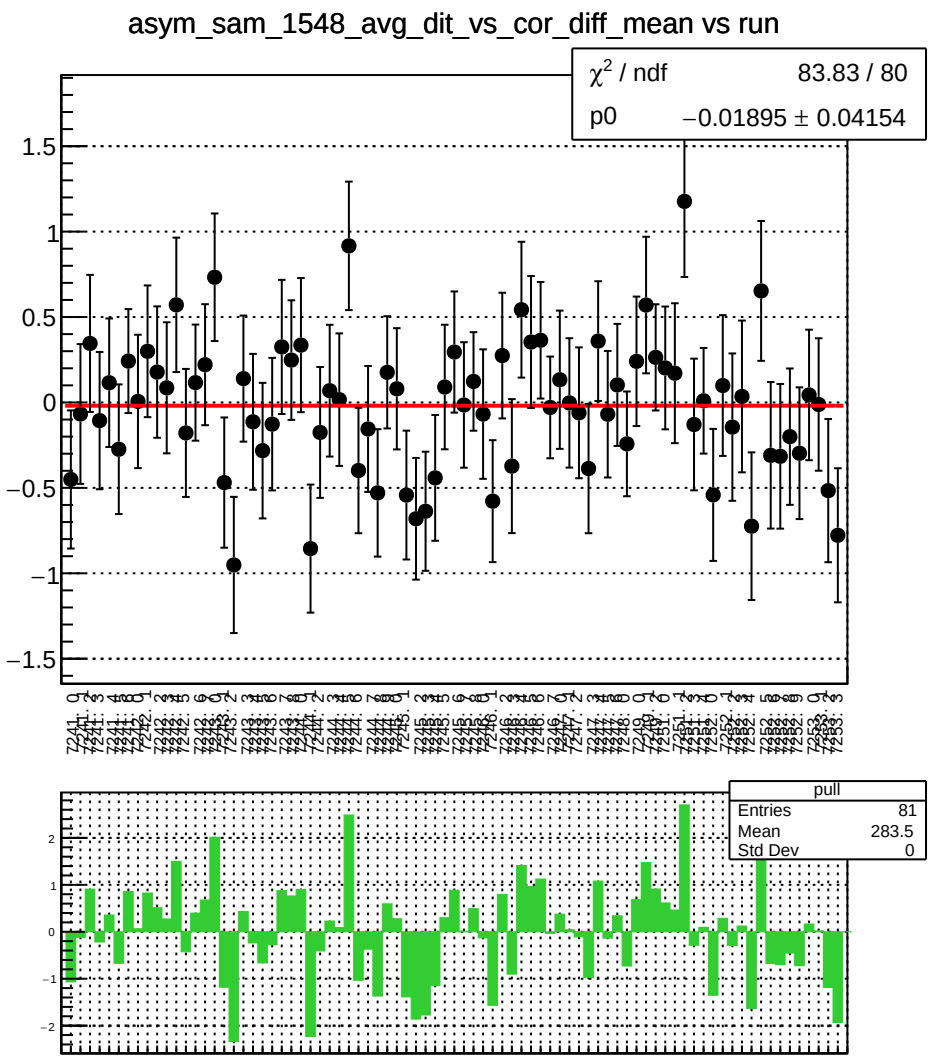

pull1D
Entries 81
Mean −0.01687
Std Dev 0.9317

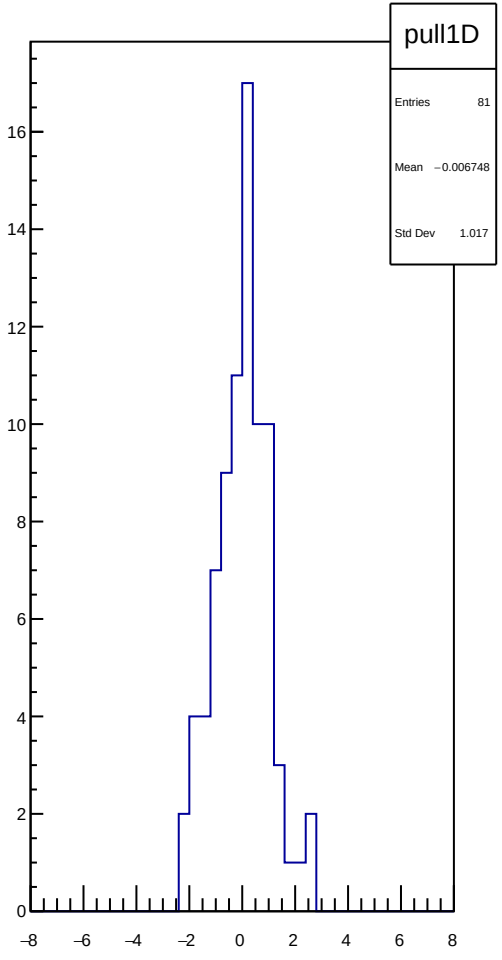

asym_sam_1548_avg_rms vs run
χ² / ndf 2449 / 80
p0 575.8 ± 0.463
640
620
600
580
560
540
520

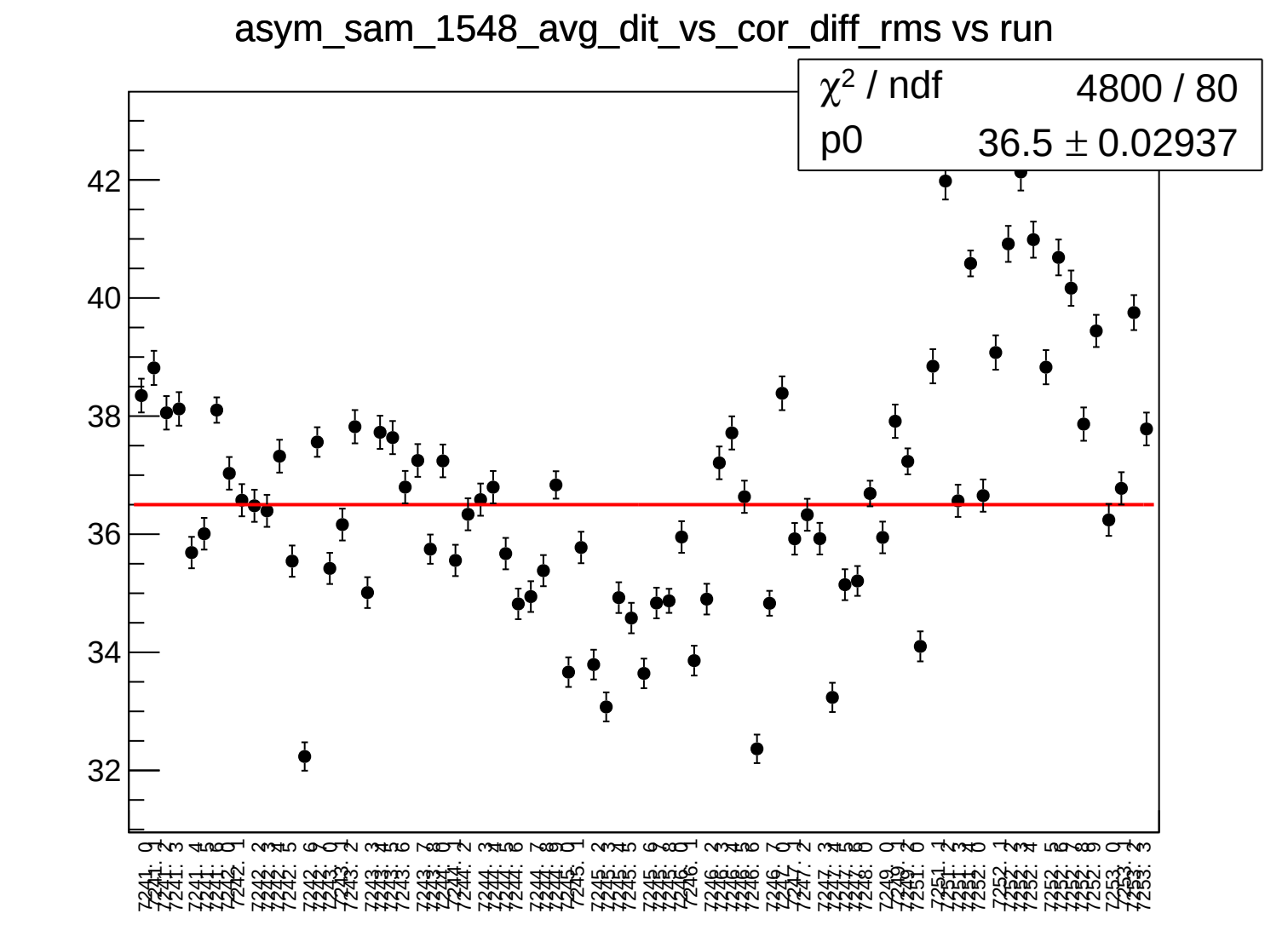

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 76.61 / 80
p0 −1.49e−14 ± 1.98e−14
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 81
Mean 95.53
Std Dev 0
2
1
0
−1
−2

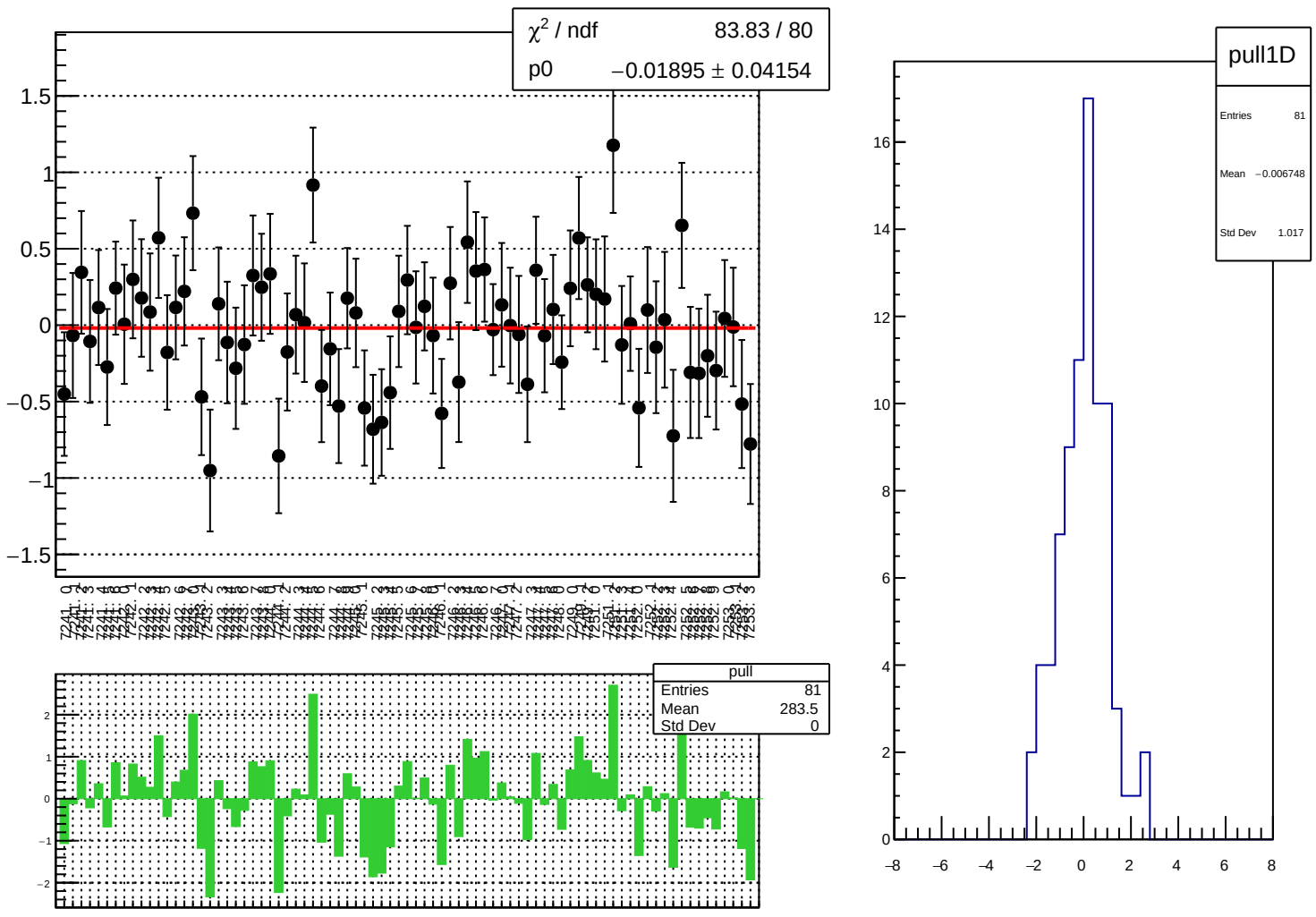

pull1D
Entries 81
Mean 0.03477
Std Dev 0.9719
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

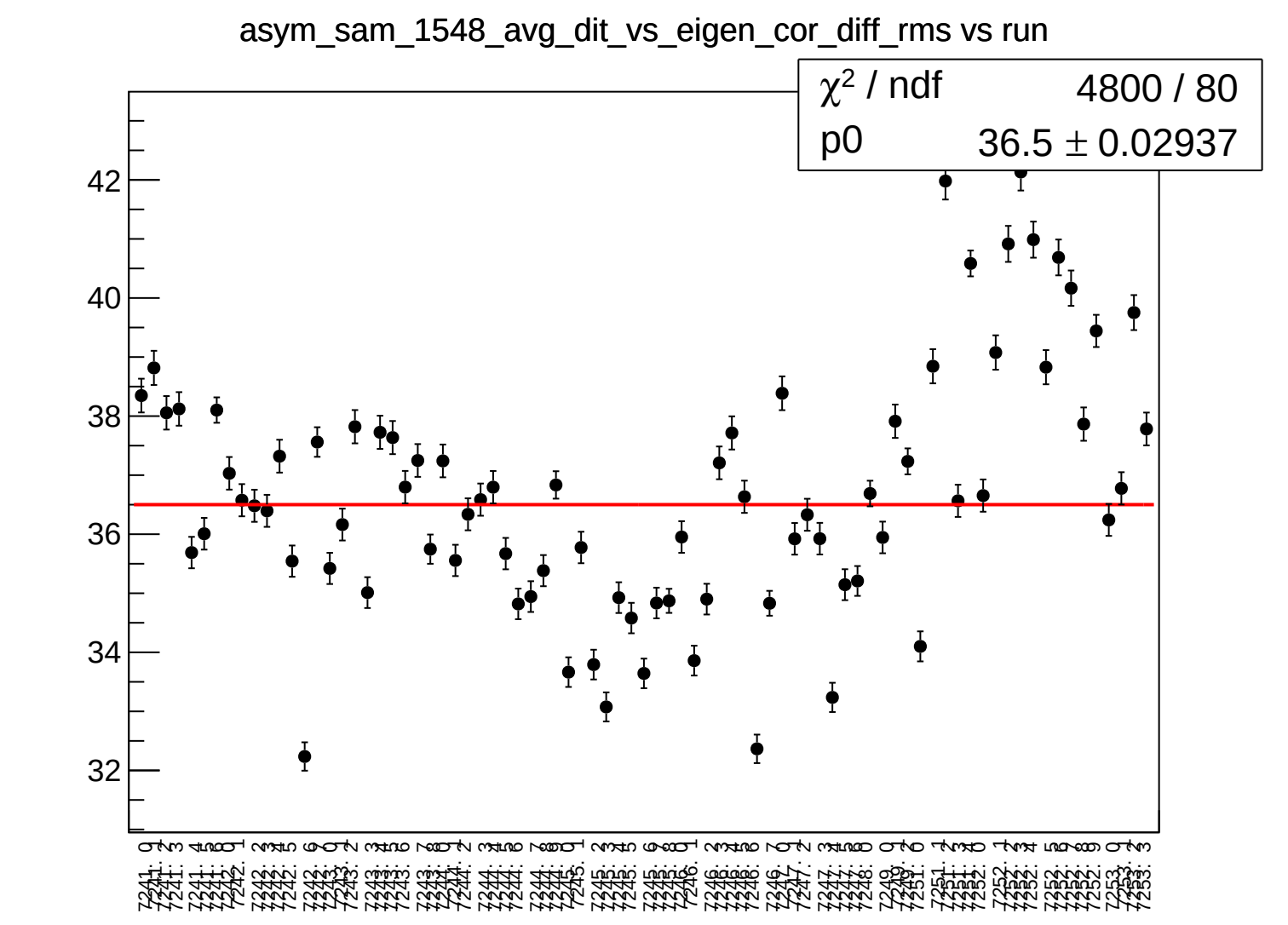

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.02e+06 / 80
p0 1.018e−11 ± 1.4e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

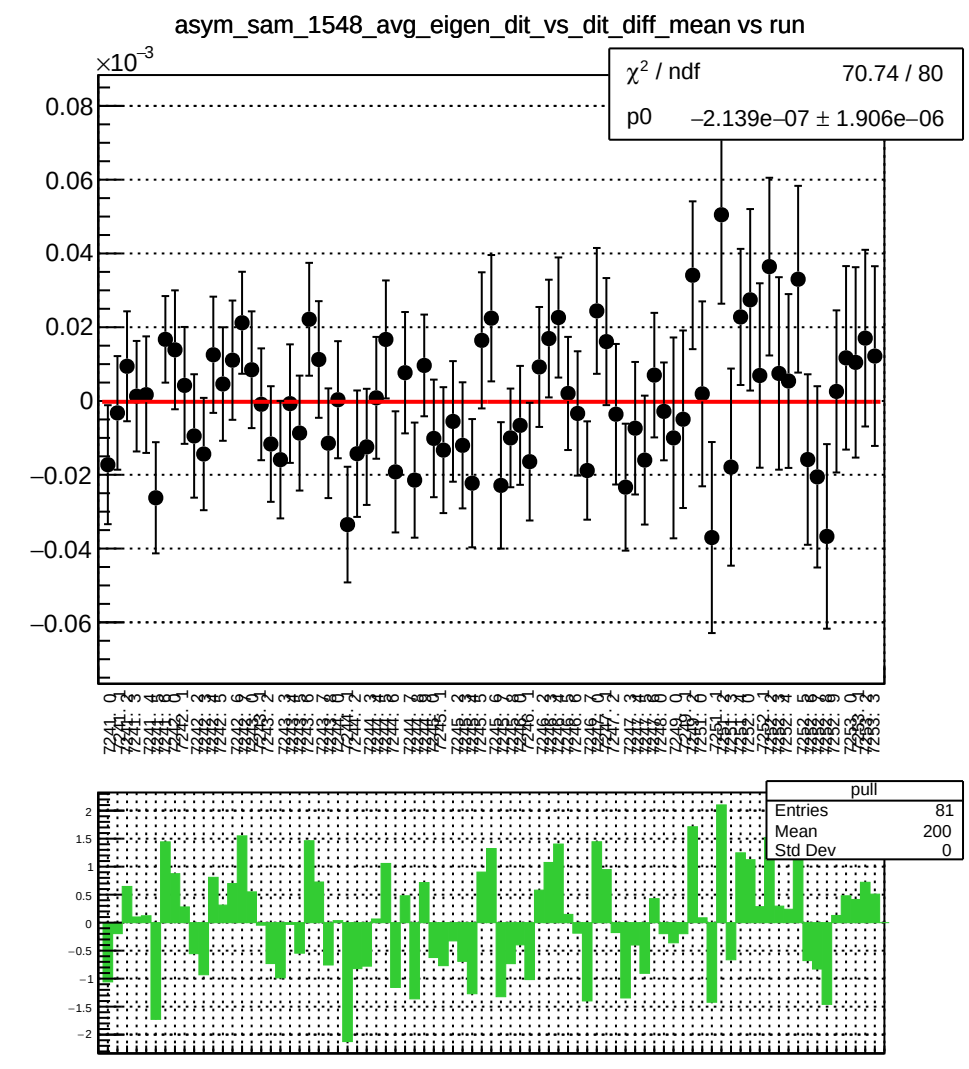

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 83.83 / 80
p0 −0.01895 ± 0.04154
pull
Entries 81
Mean 283.5
Std Dev 0

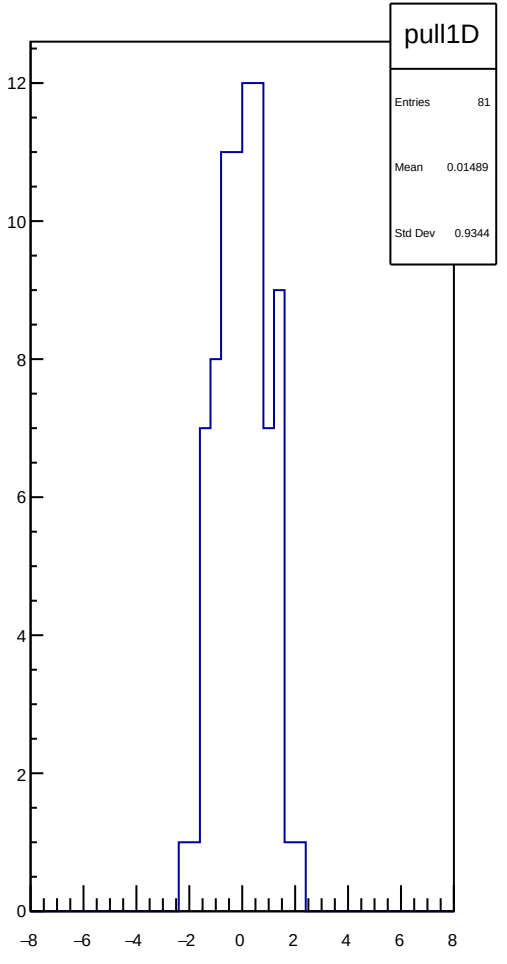

pull1D
Entries 81
Mean −0.006748
Std Dev 1.017

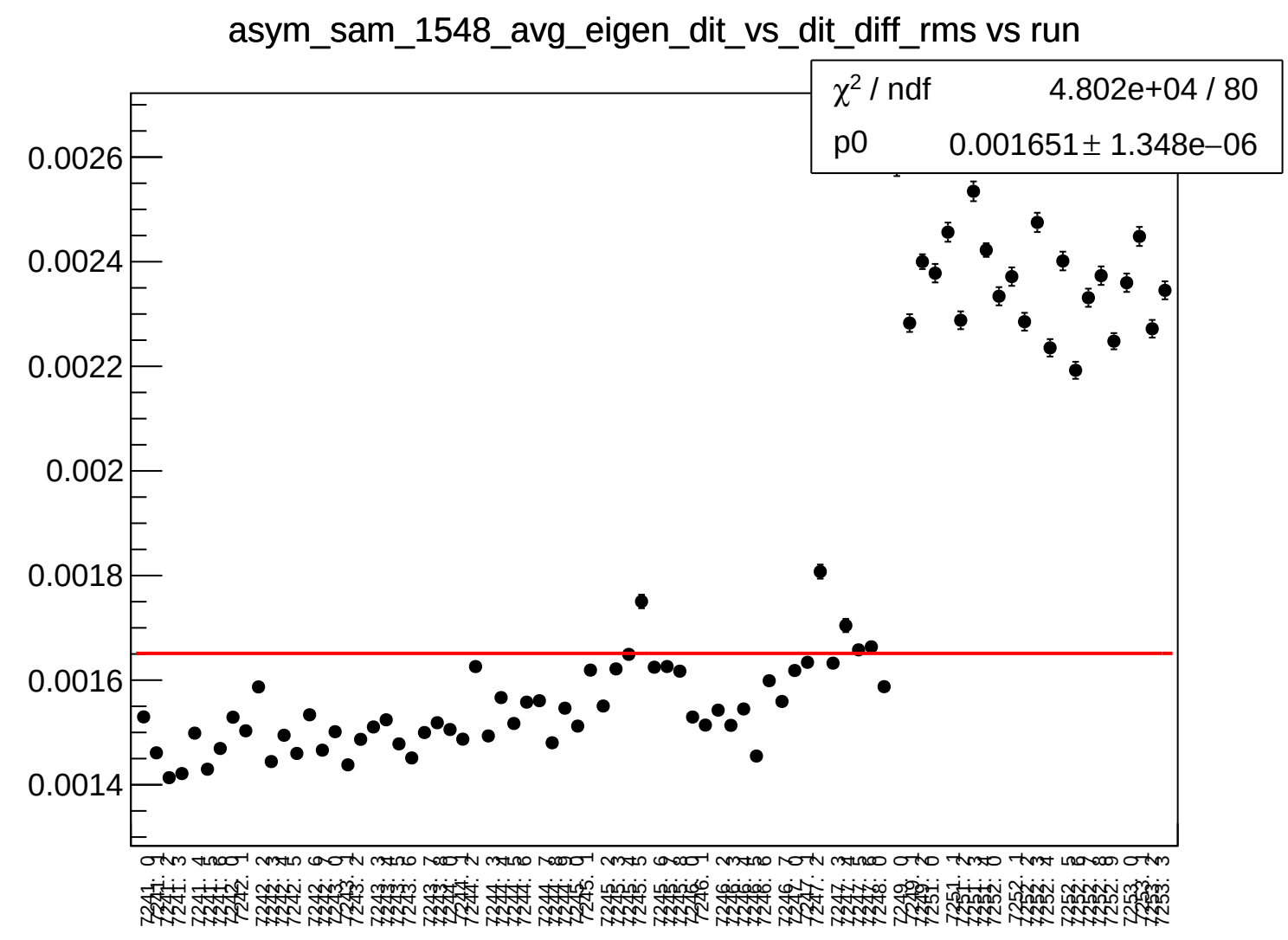

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4800 / 80
p0 36.5 ± 0.02937
42
40
38
36
34
32

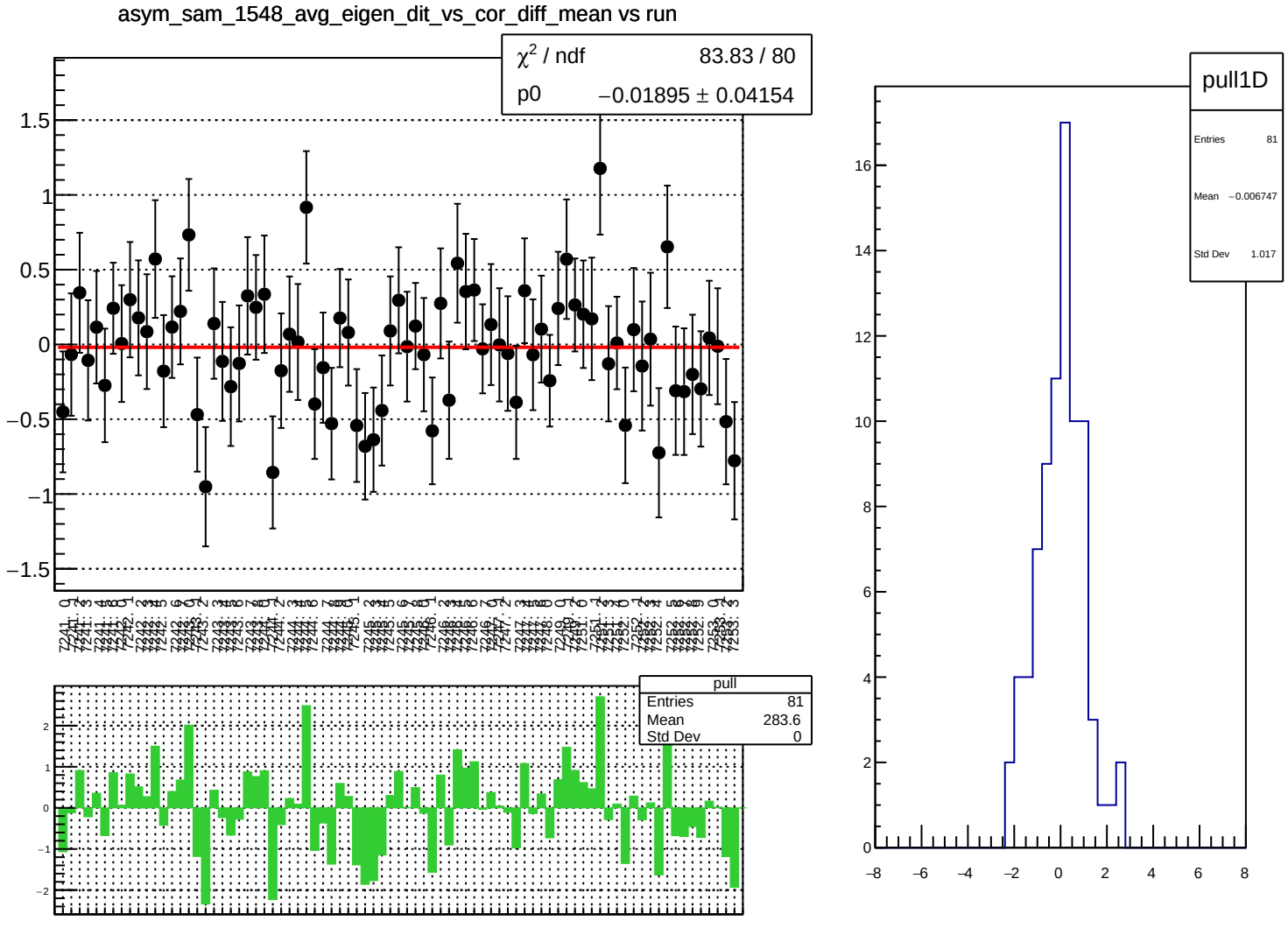

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.83 / 80
p0 −0.01895 ± 0.04154
pull
Entries 81
Mean 283.5
Std Dev 0
pull1D
Entries 81
Mean −0.006748
Std Dev 1.017

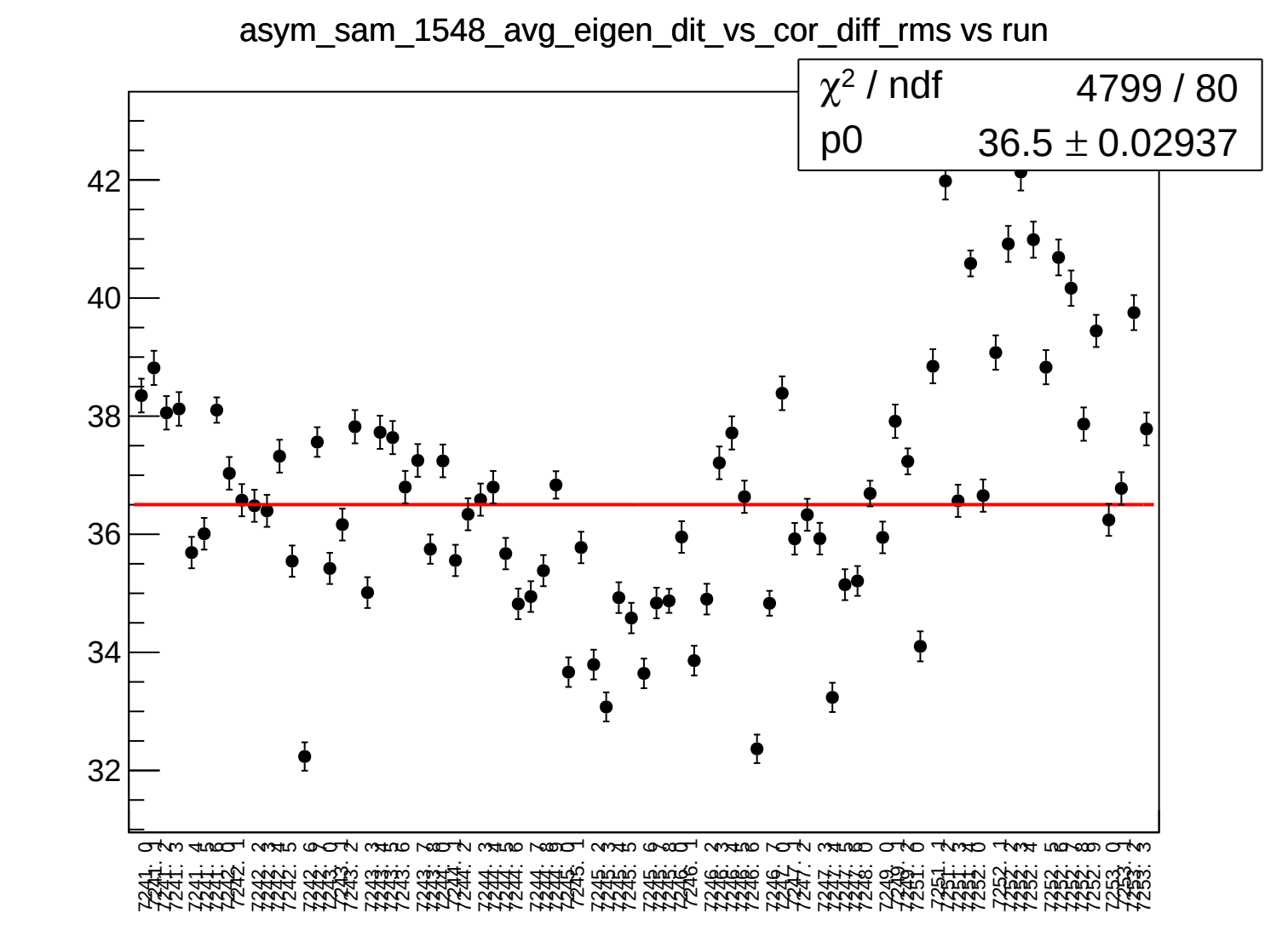

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4800 / 80
p0 36.5 ± 0.02937
42
40
38
36
34
32

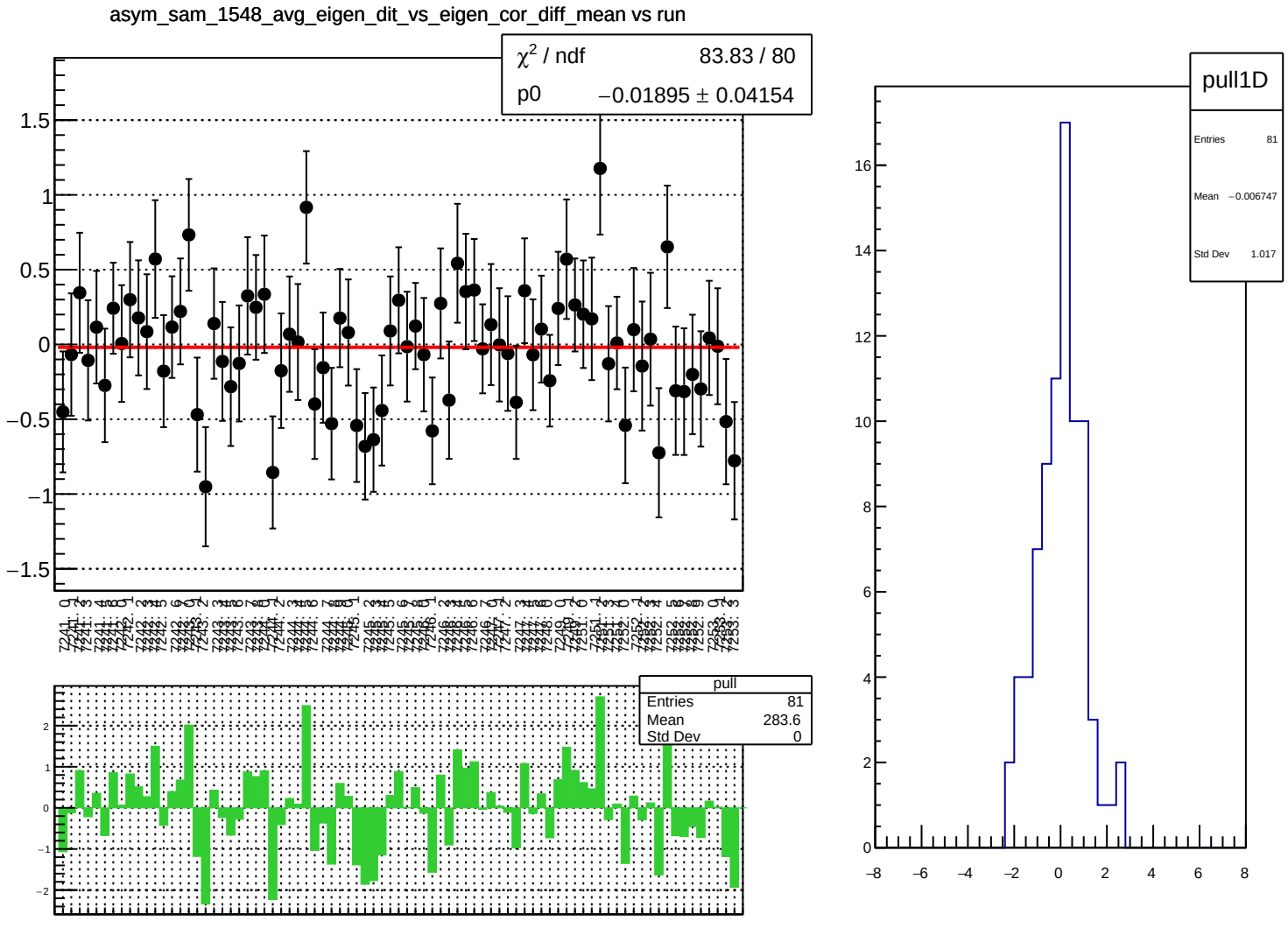

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 70.74 / 80
p0 −2.139e−07 ± 1.906e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 81
Mean 200
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

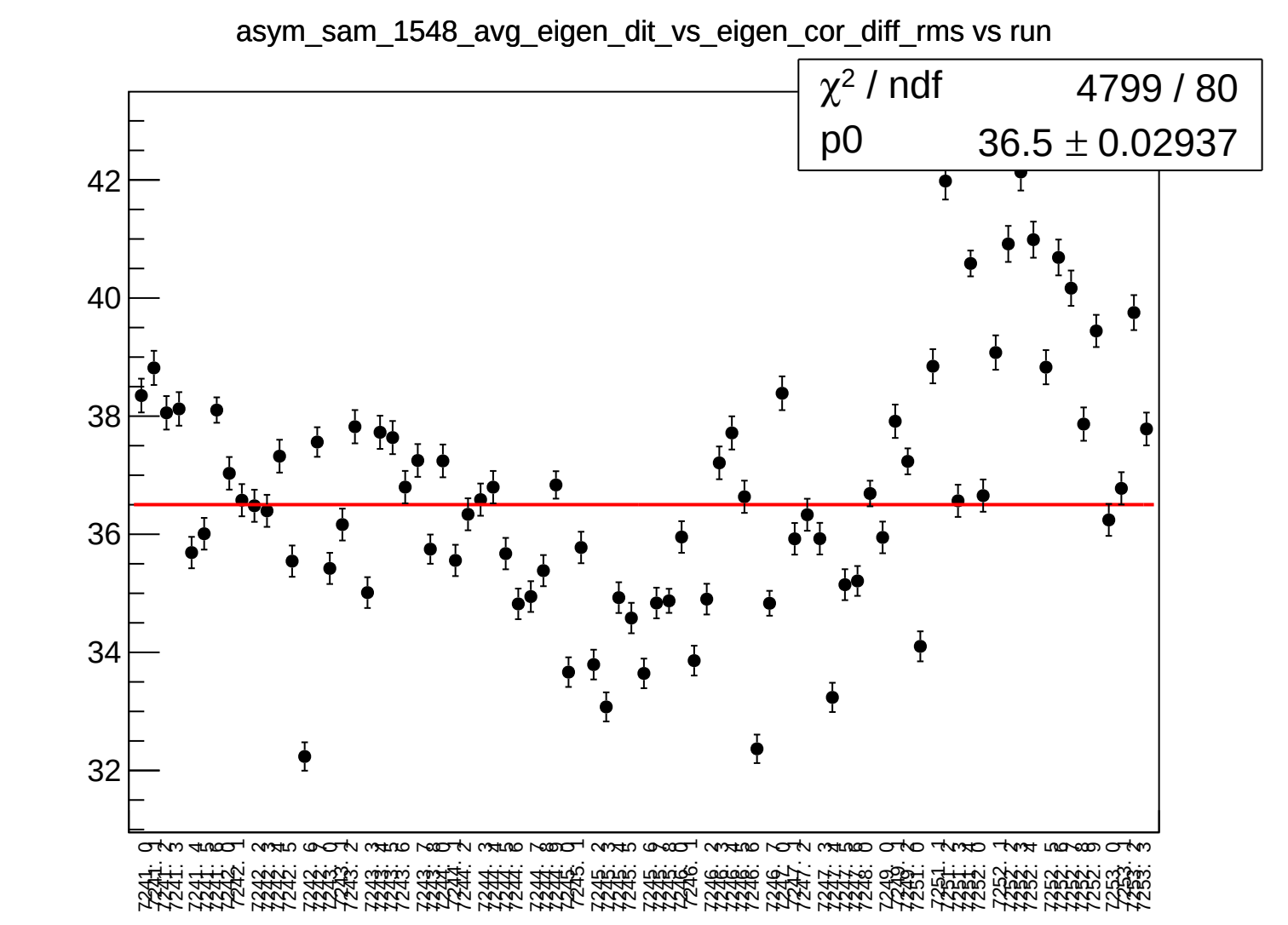

pull1D
Entries 81
Mean 0.01489
Std Dev 0.9344
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

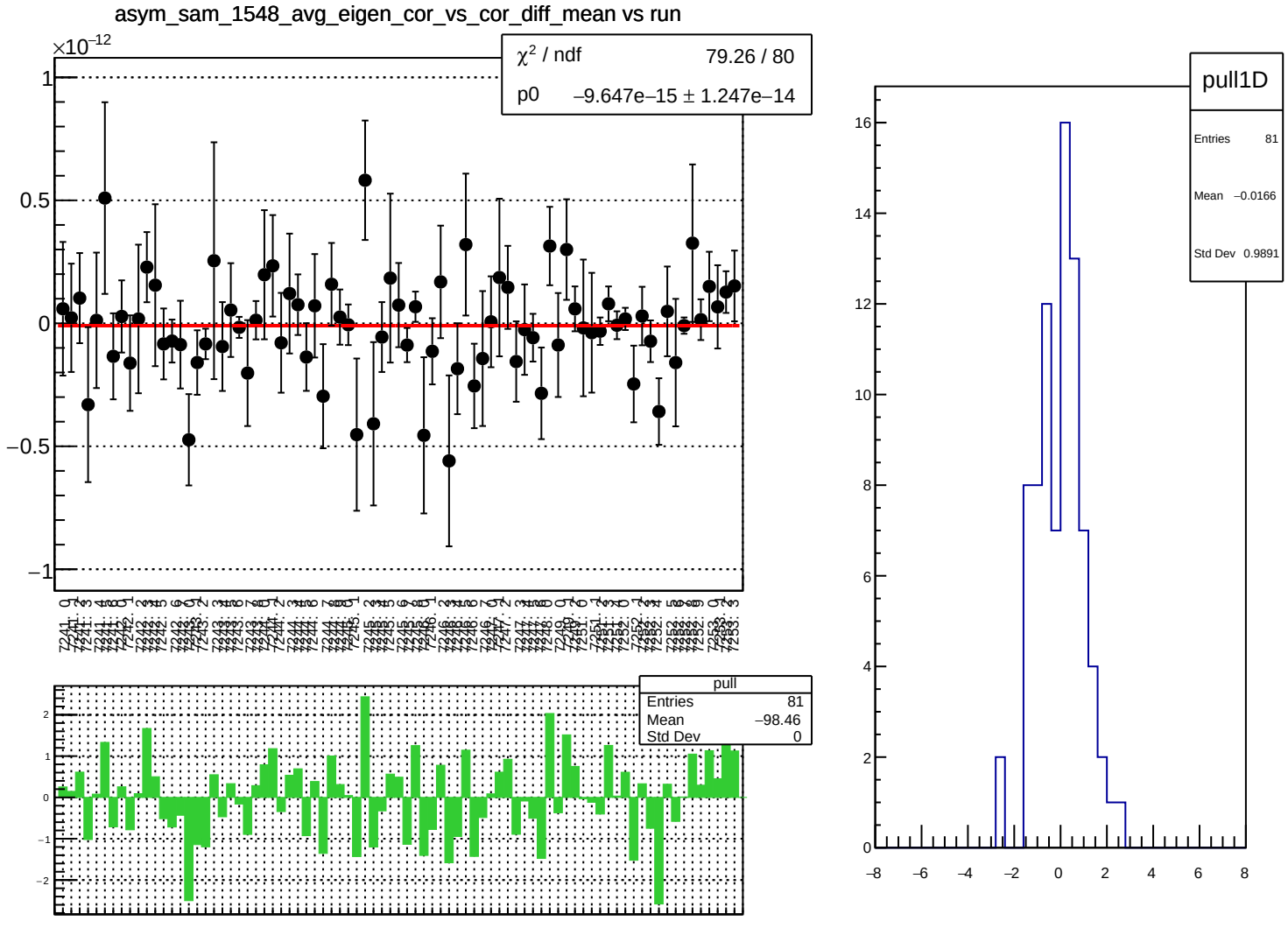

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.802e+04 / 80
p0 0.001651 ± 1.348e−06
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014

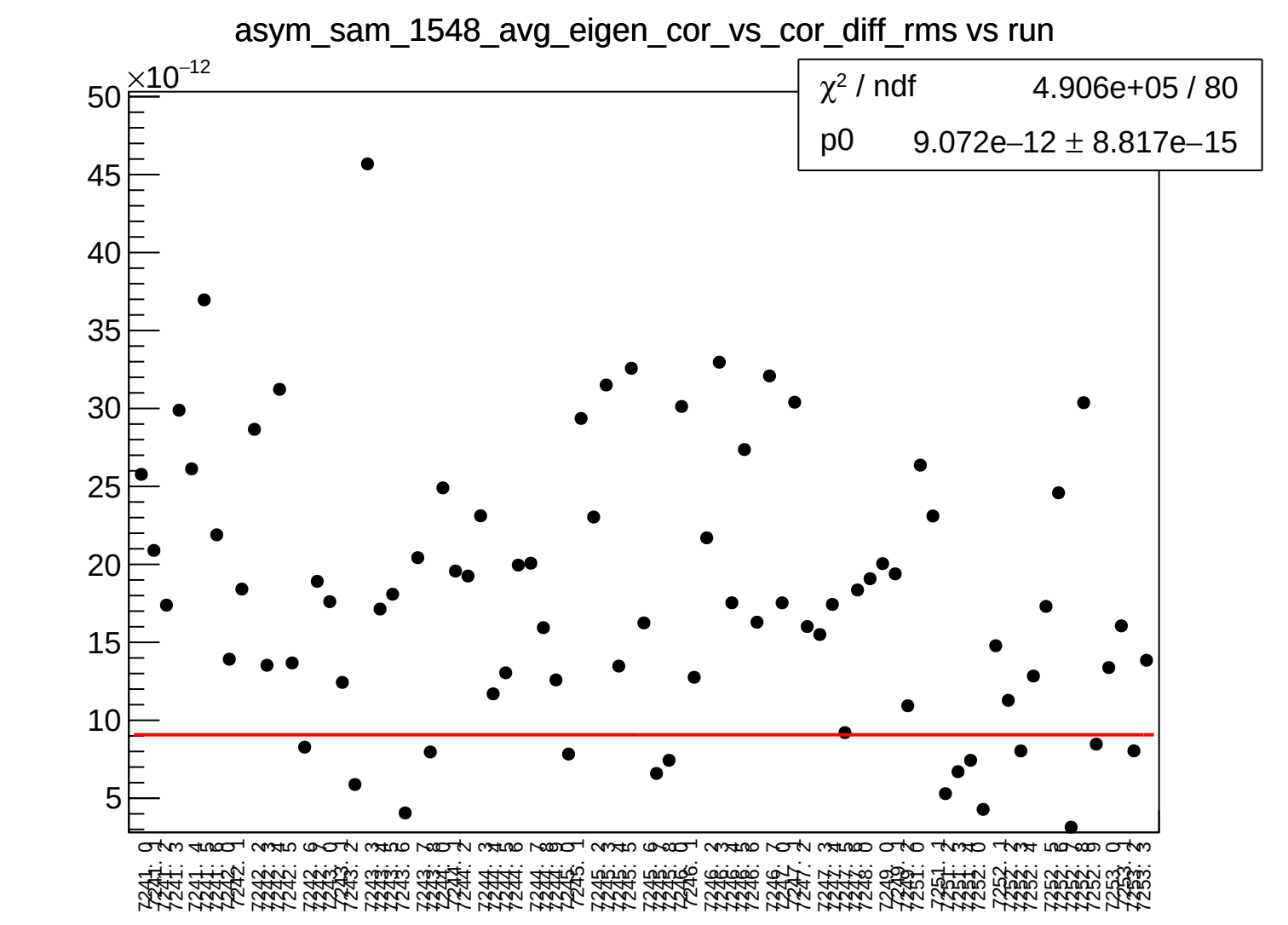

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.83 / 80
p0 −0.01895 ± 0.04154
pull
Entries 81
Mean 283.6
Std Dev 0
pull1D
Entries 81
Mean −0.006747
Std Dev 1.017

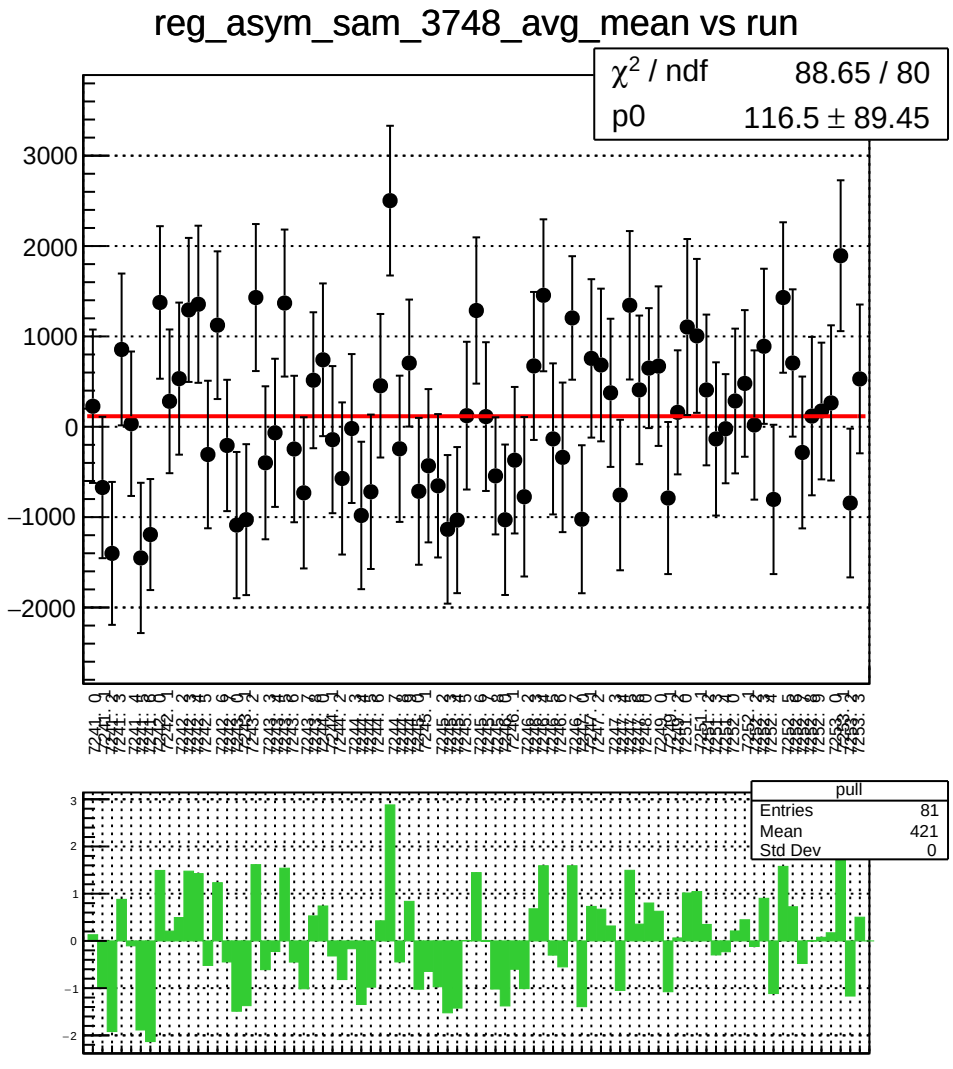

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4799 / 80
p0 36.5 ± 0.02937
42
40
38
36
34
32

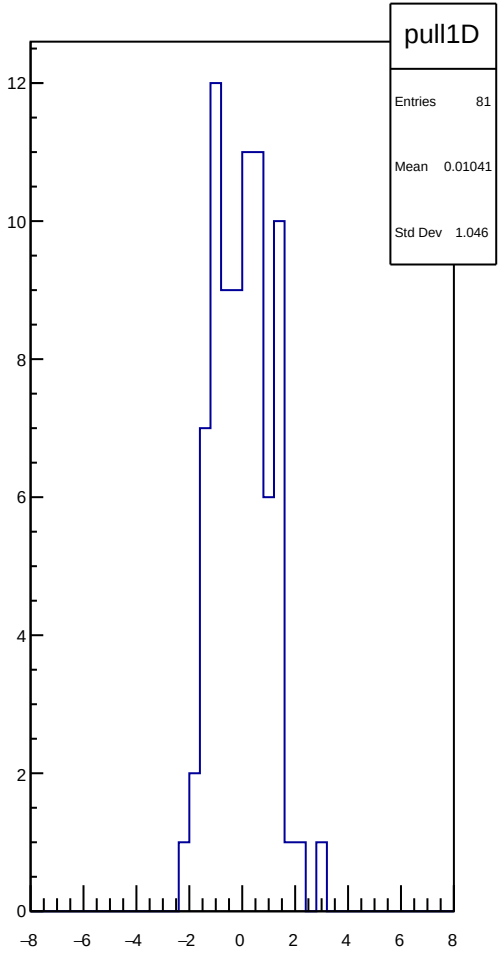

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.83 / 80
p0 −0.01895 ± 0.04154
pull
Entries 81
Mean 283.6
Std Dev 0
pull1D
Entries 81
Mean −0.006747
Std Dev 1.017

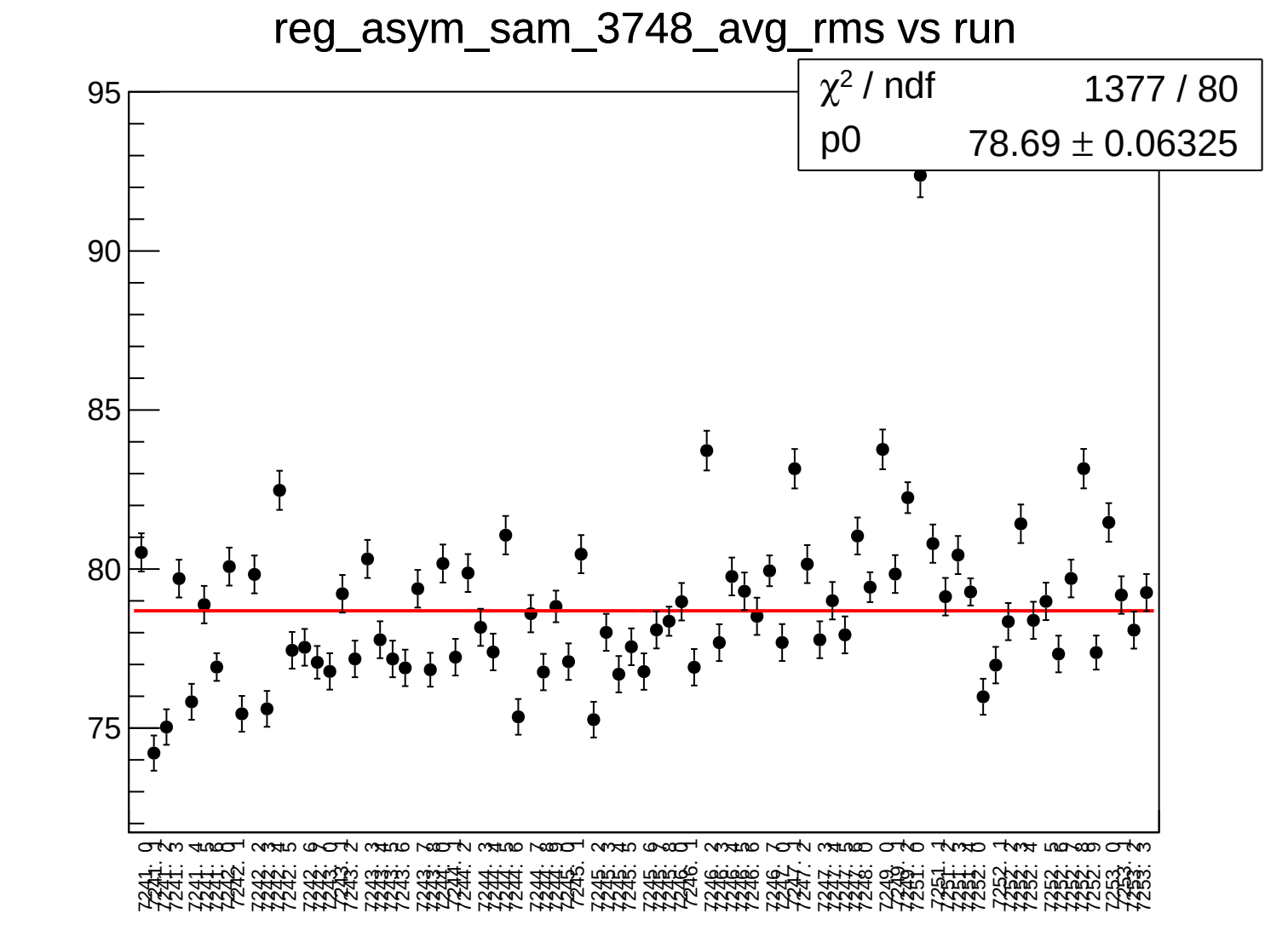

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4799 / 80
p0 36.5 ± 0.02937
42
40
38
36
34
32

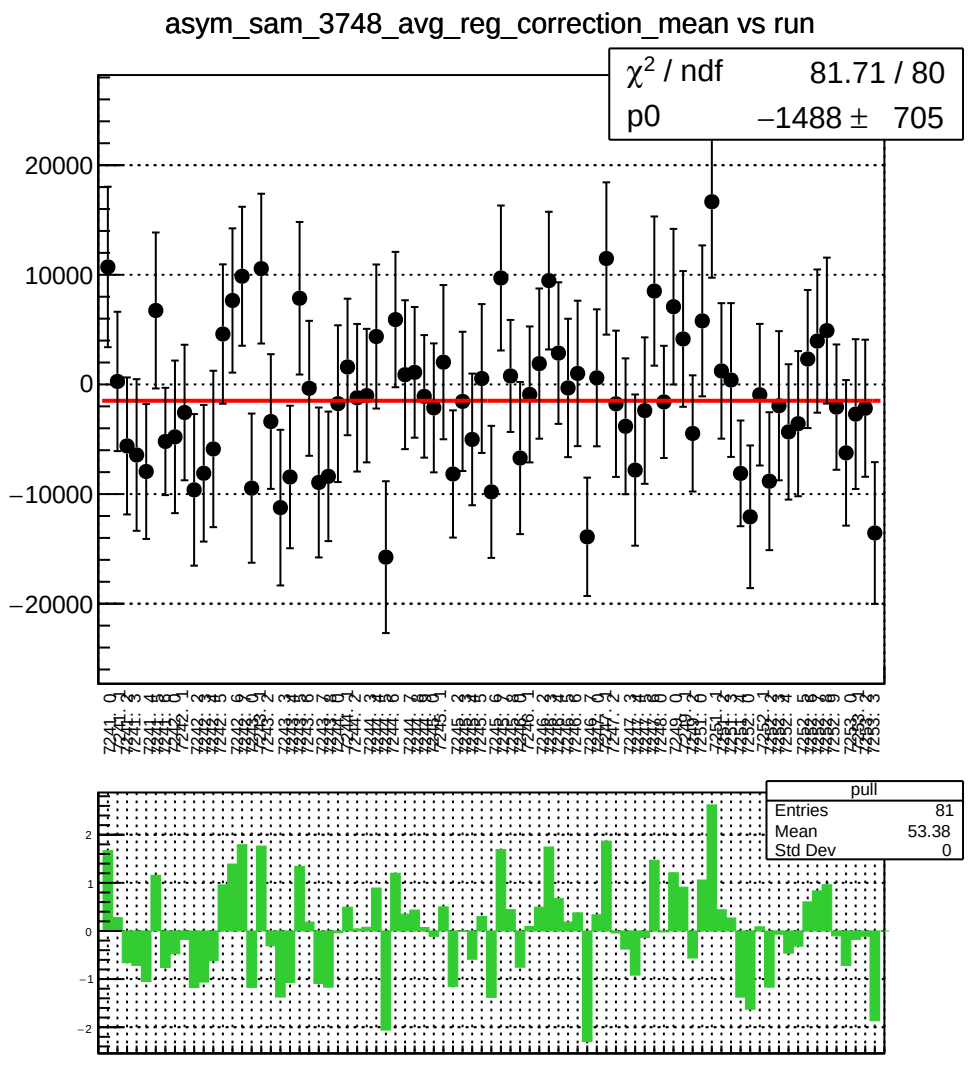

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.26 / 80
p0 −9.647e−15 ± 1.247e−14
pull
Entries 81
Mean −98.46
Std Dev 0
pull1D
Entries 81
Mean −0.0166
Std Dev 0.9891

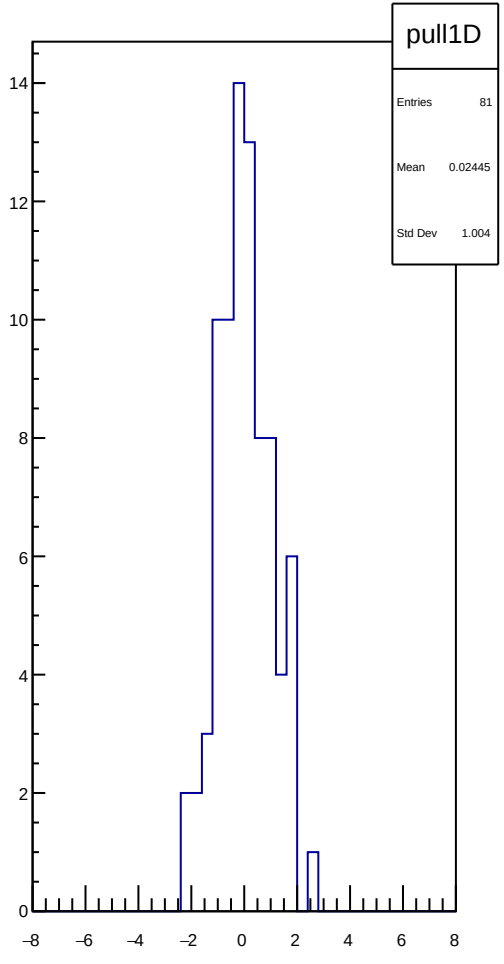

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.906e+05 / 80
p0 9.072e−12 ± 8.817e−15
50
45
40
35
30
25
20
15
10
5

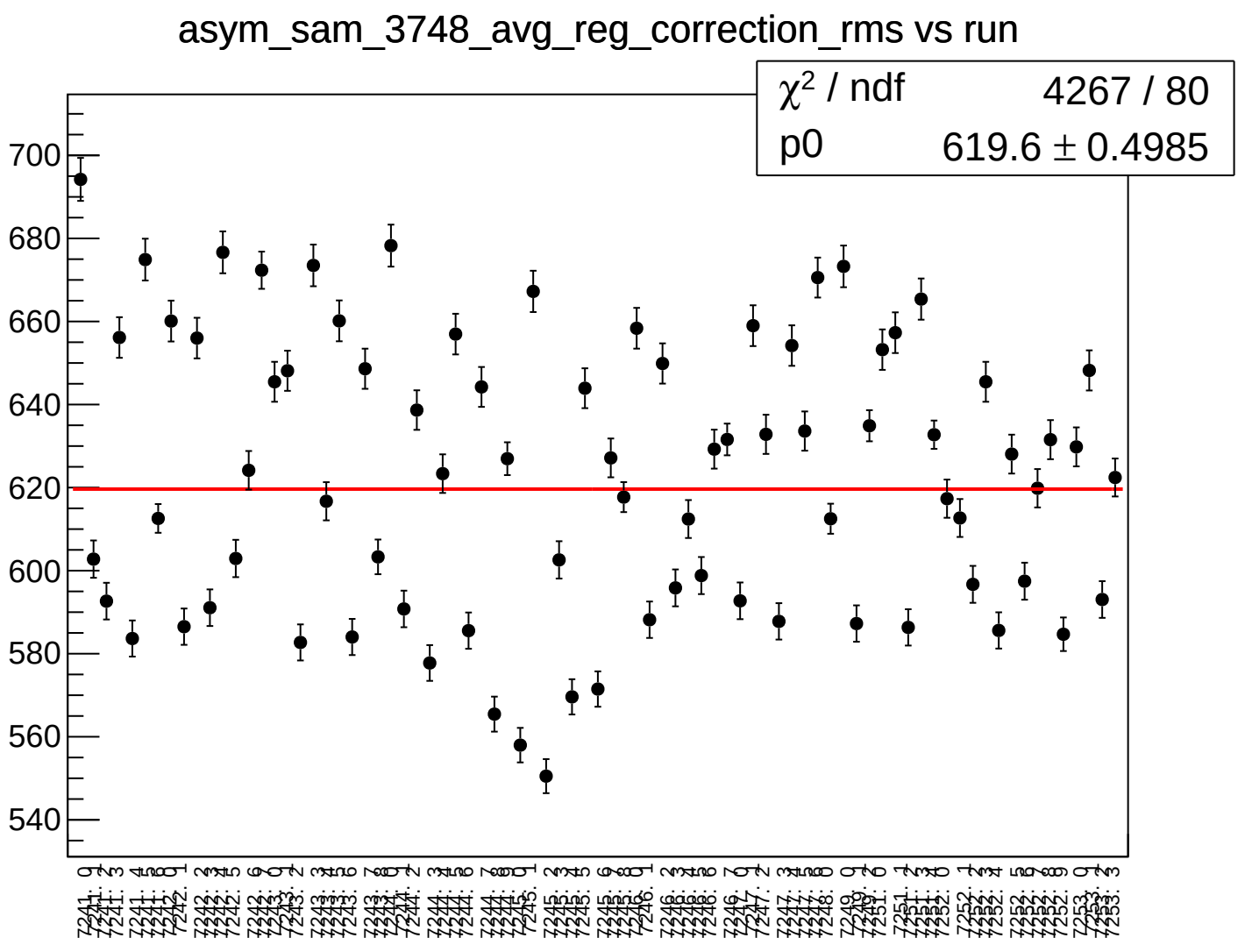

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 88.65 / 80
p0 116.5 ± 89.45
3000
2000
1000
0
−1000
−2000
pull
Entries 81
Mean 421
Std Dev 0
3
2
1
0
−1
−2

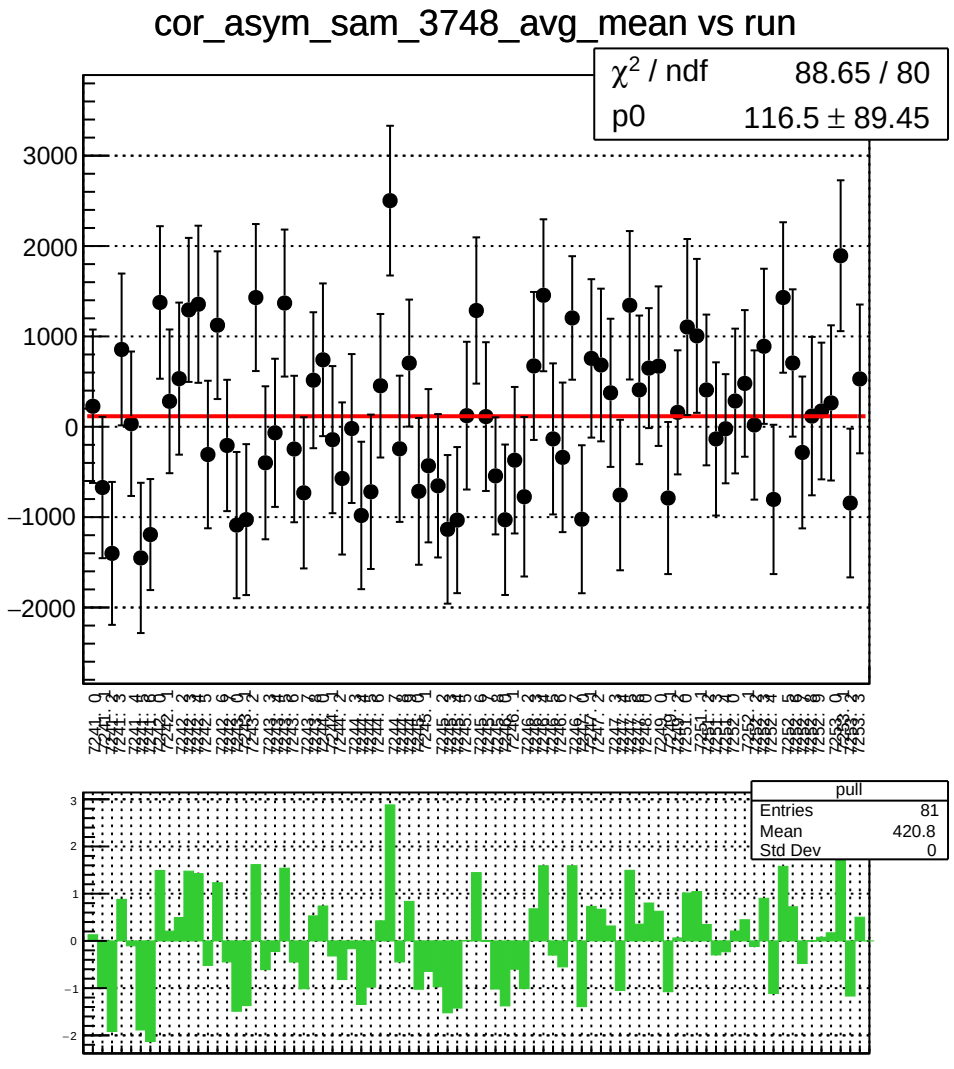

pull1D
Entries 81
Mean 0.01041
Std Dev 1.046
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

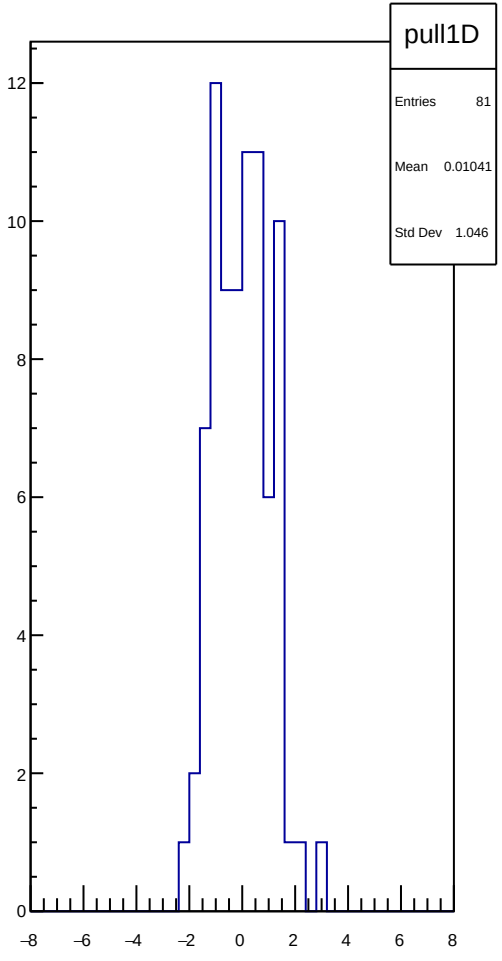

reg_asym_sam_3748_avg_rms vs run
χ^2 / ndf 1377 / 80
p0 78.69 ± 0.06325
95
90
85
80
75

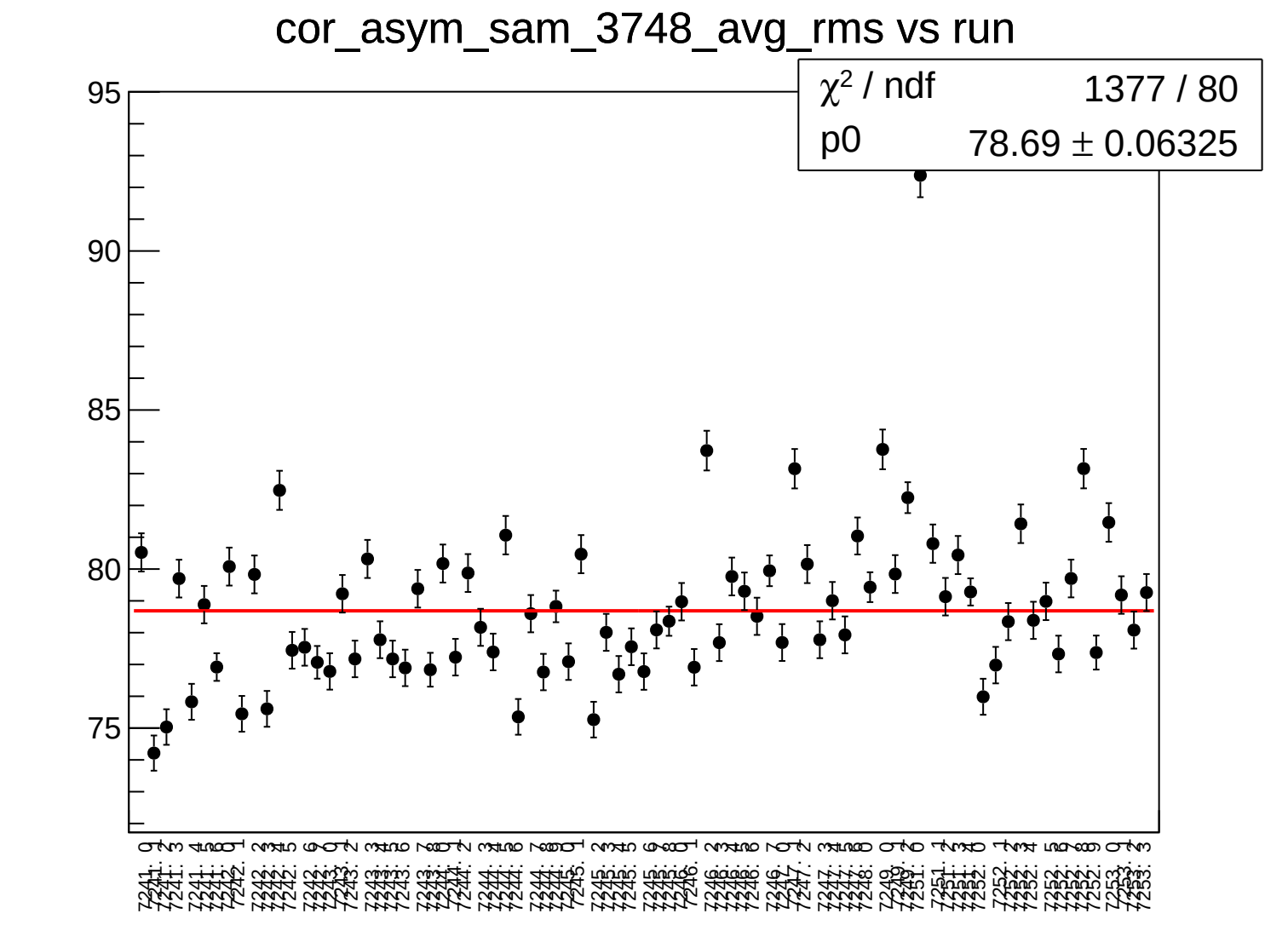

asym_sam_3748_avg_reg_correction_mean vs run
χ² / ndf 81.71 / 80
p0 −1488 ± 705
20000
10000
0
−10000
−20000
pull
Entries 81
Mean 53.38
Std Dev 0
2
1
0
−1
−2

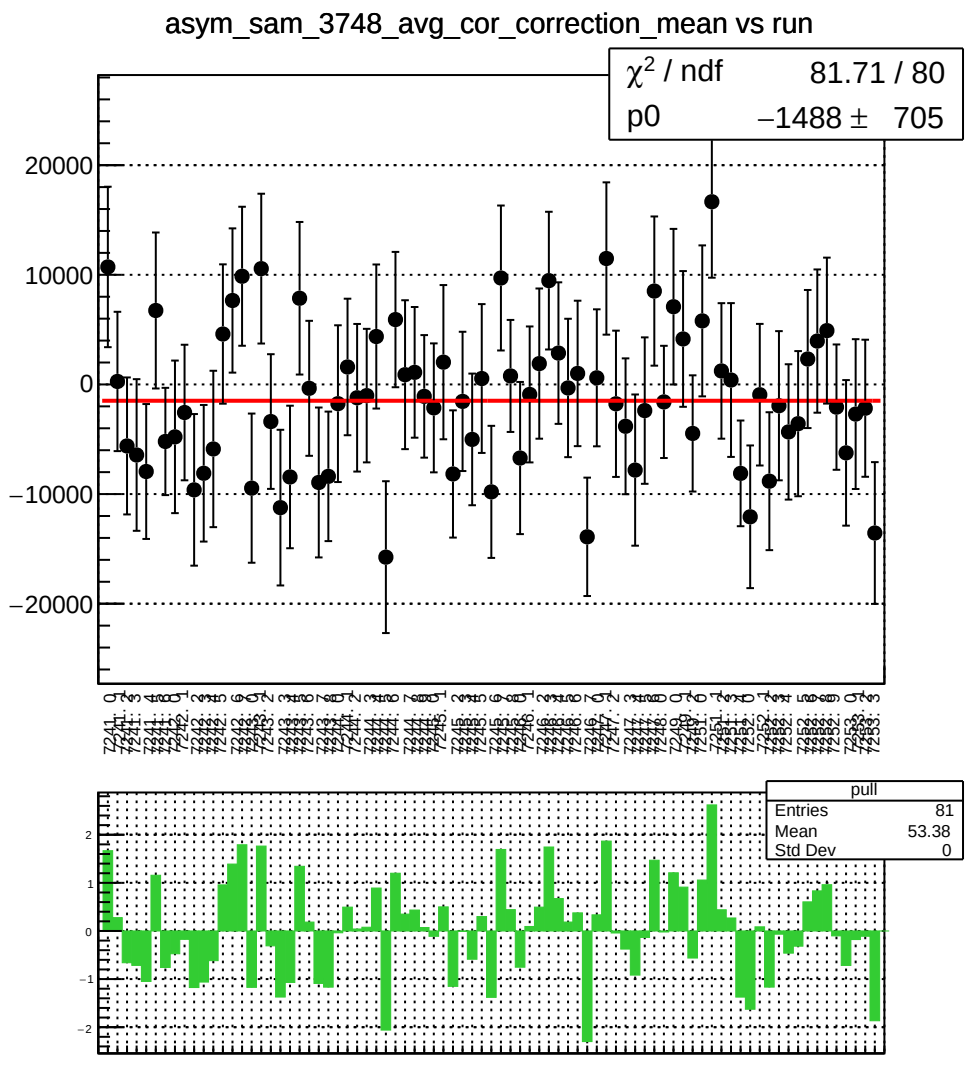

pull1D
Entries 81
Mean 0.02445
Std Dev 1.004
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

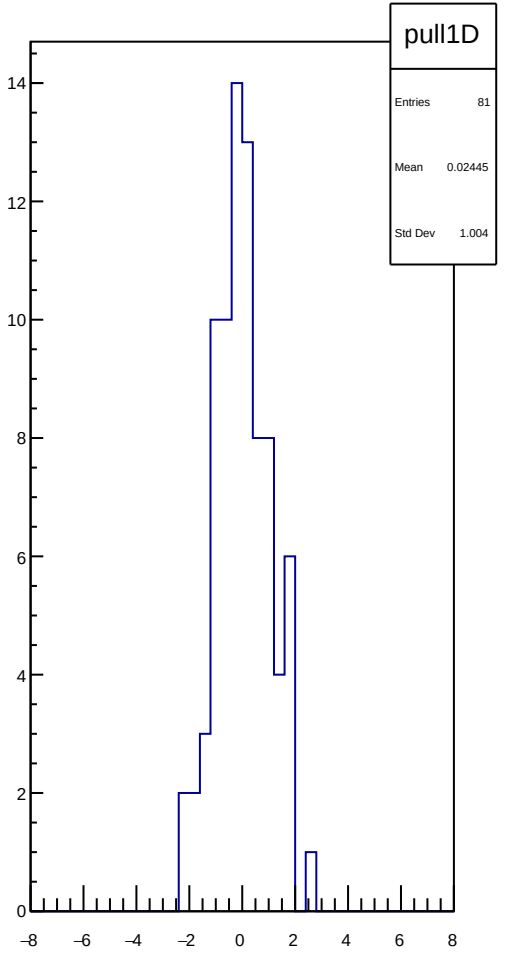

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 4267 / 80
p0 619.6 ± 0.4985
700
680
660
640
620
600
580
560
540

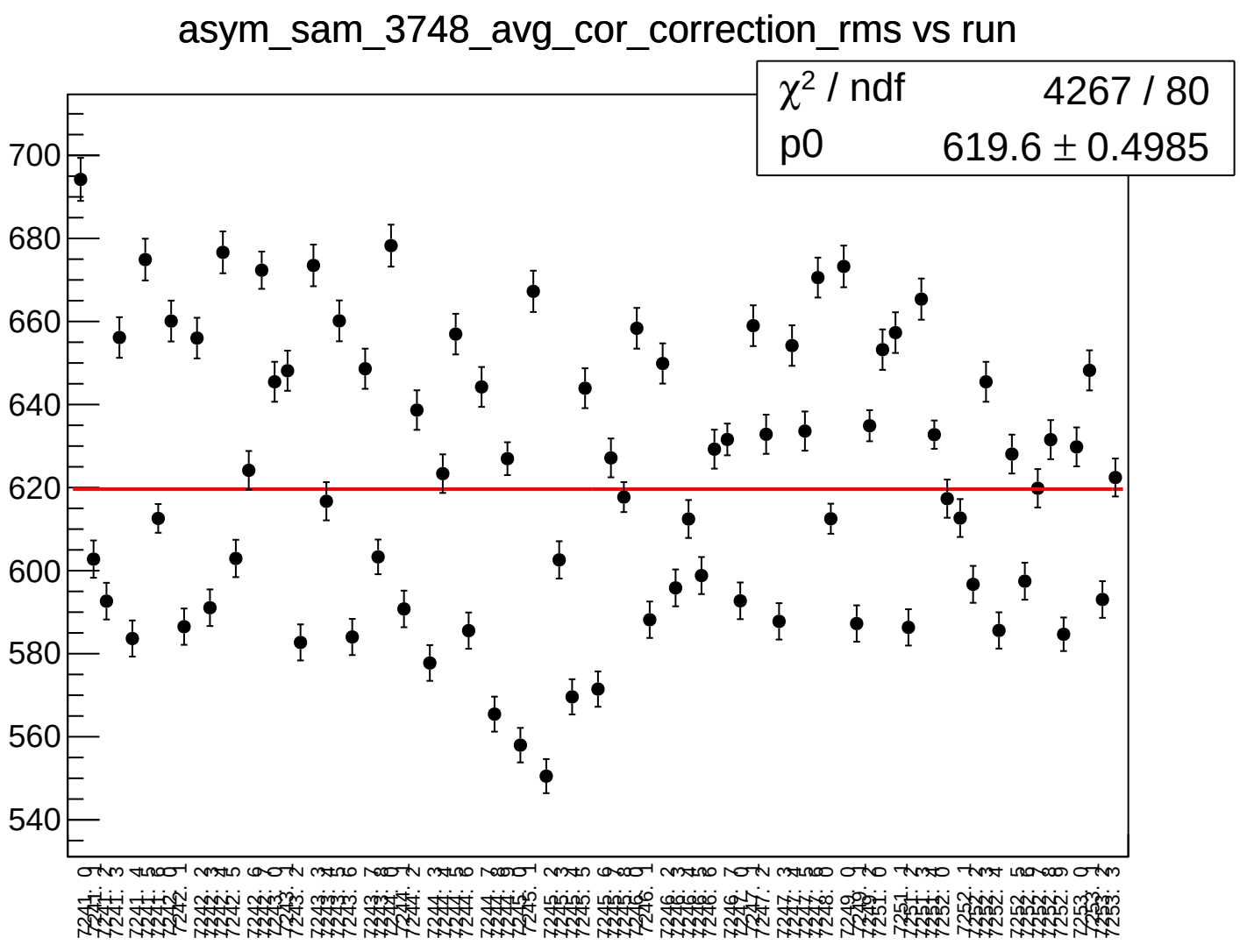

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 88.65 / 80
p0 116.5 ± 89.45
pull
Entries 81
Mean 420.8
Std Dev 0

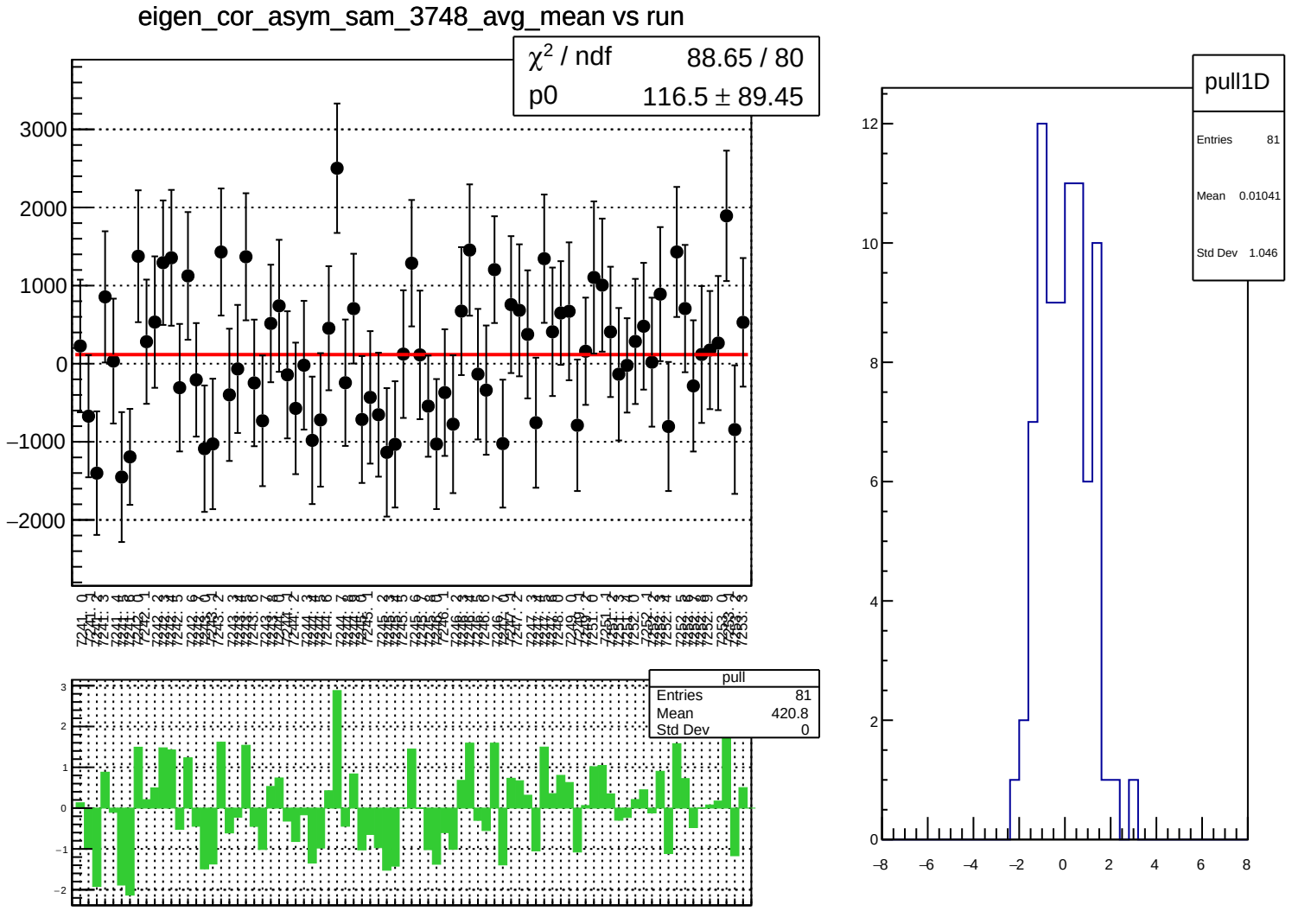

pull1D
Entries 81
Mean 0.01041
Std Dev 1.046

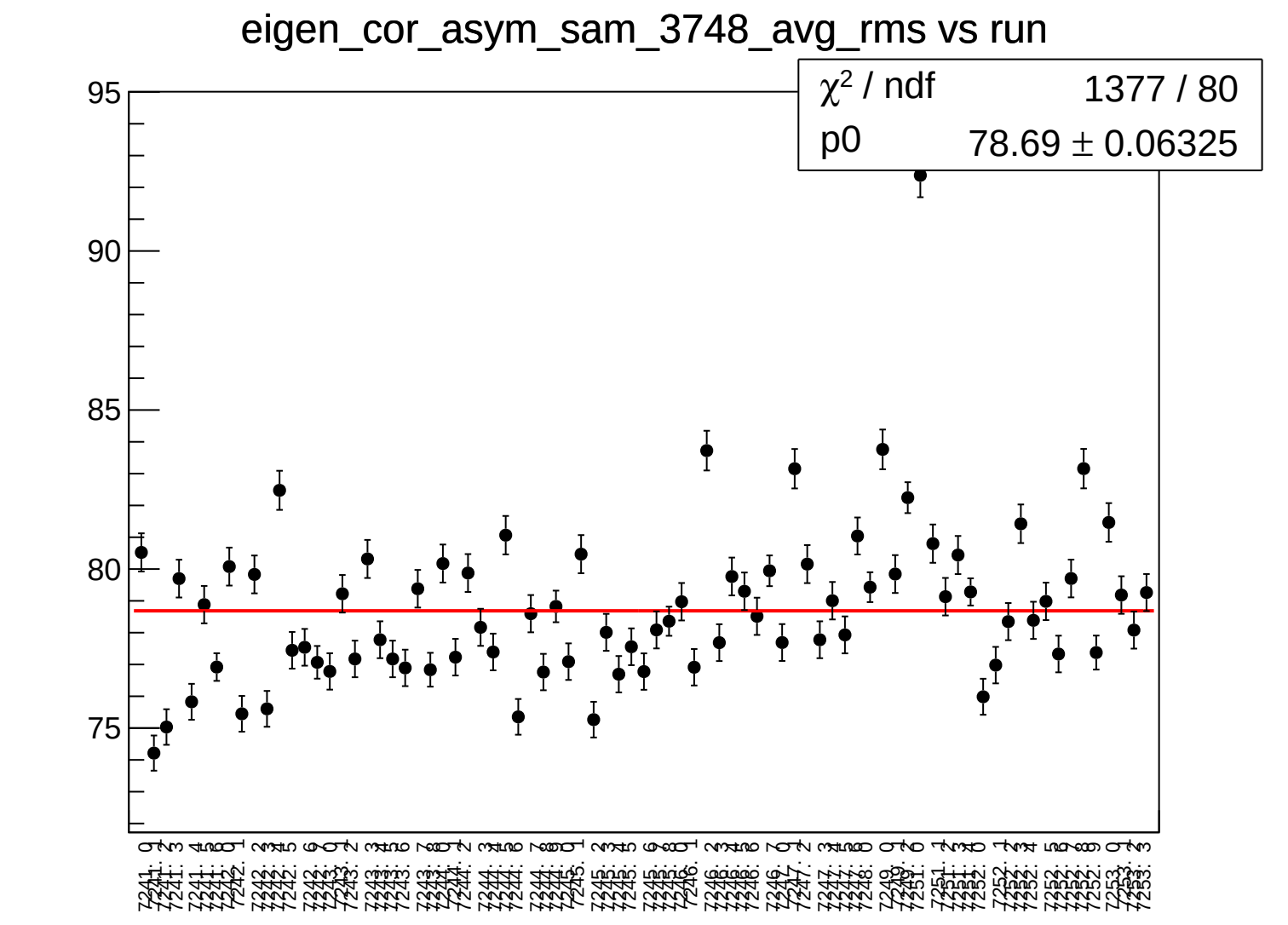

cor_asym_sam_3748_avg_rms vs run
χ^2 / ndf 1377 / 80
p0 78.69 ± 0.06325
95
90
85
80
75

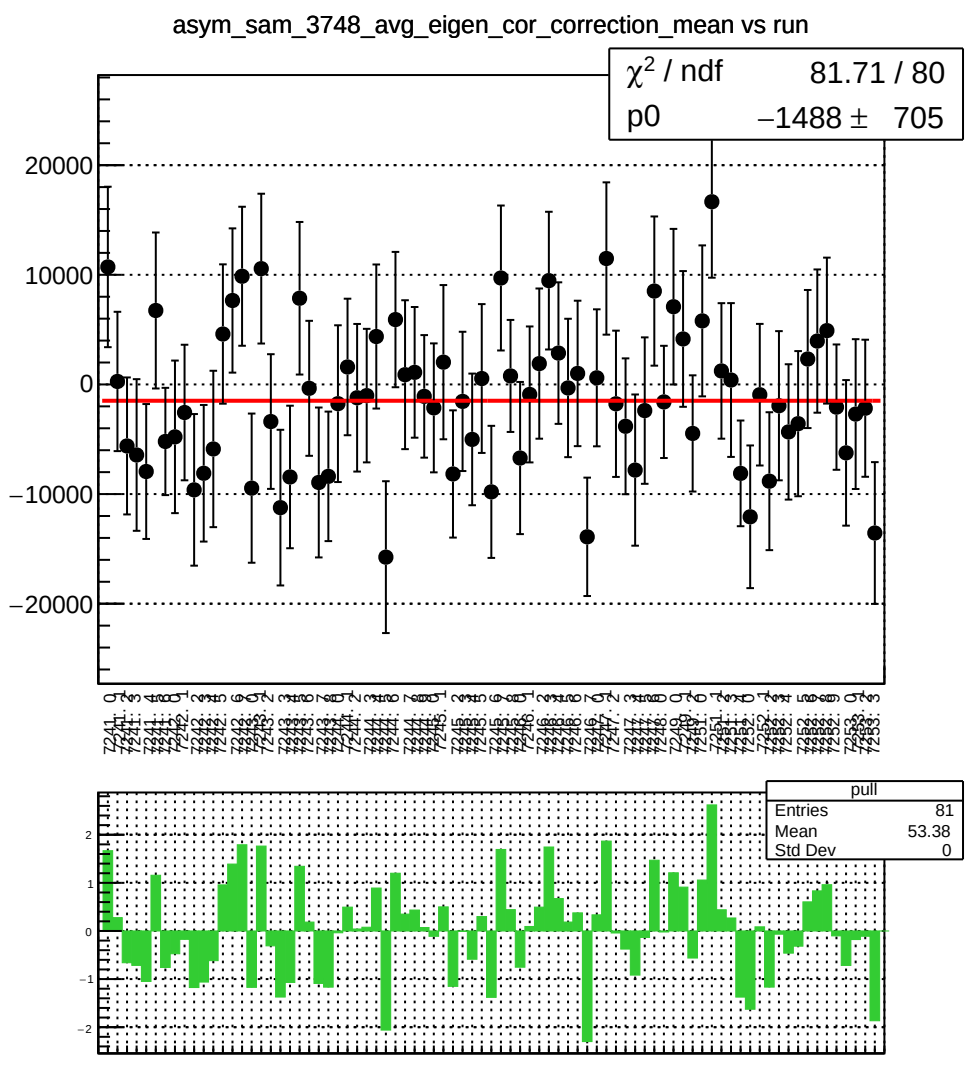

asym_sam_3748_avg_cor_correction_mean vs run
χ² / ndf 81.71 / 80
p0 −1488 ± 705
20000
10000
0
−10000
−20000
pull
Entries 81
Mean 53.38
Std Dev 0
2
1
0
−1
−2

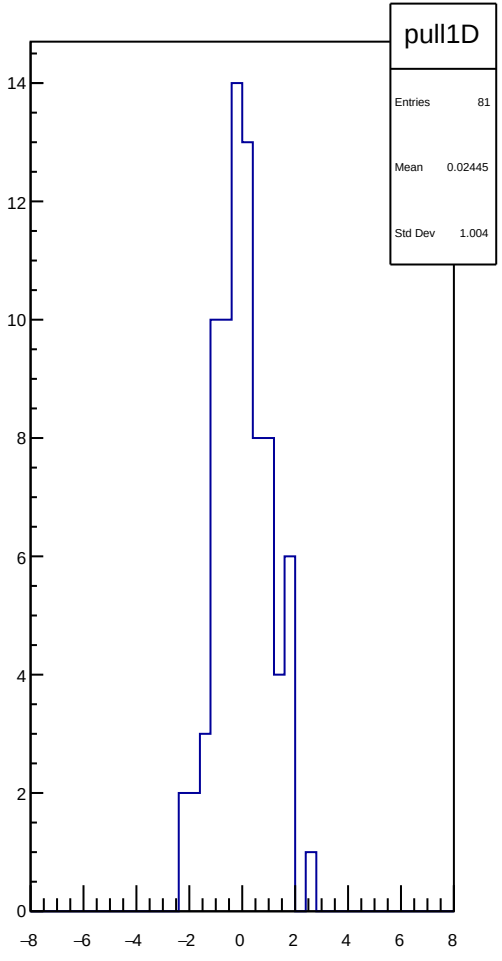

pull1D
Entries 81
Mean 0.02445
Std Dev 1.004
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

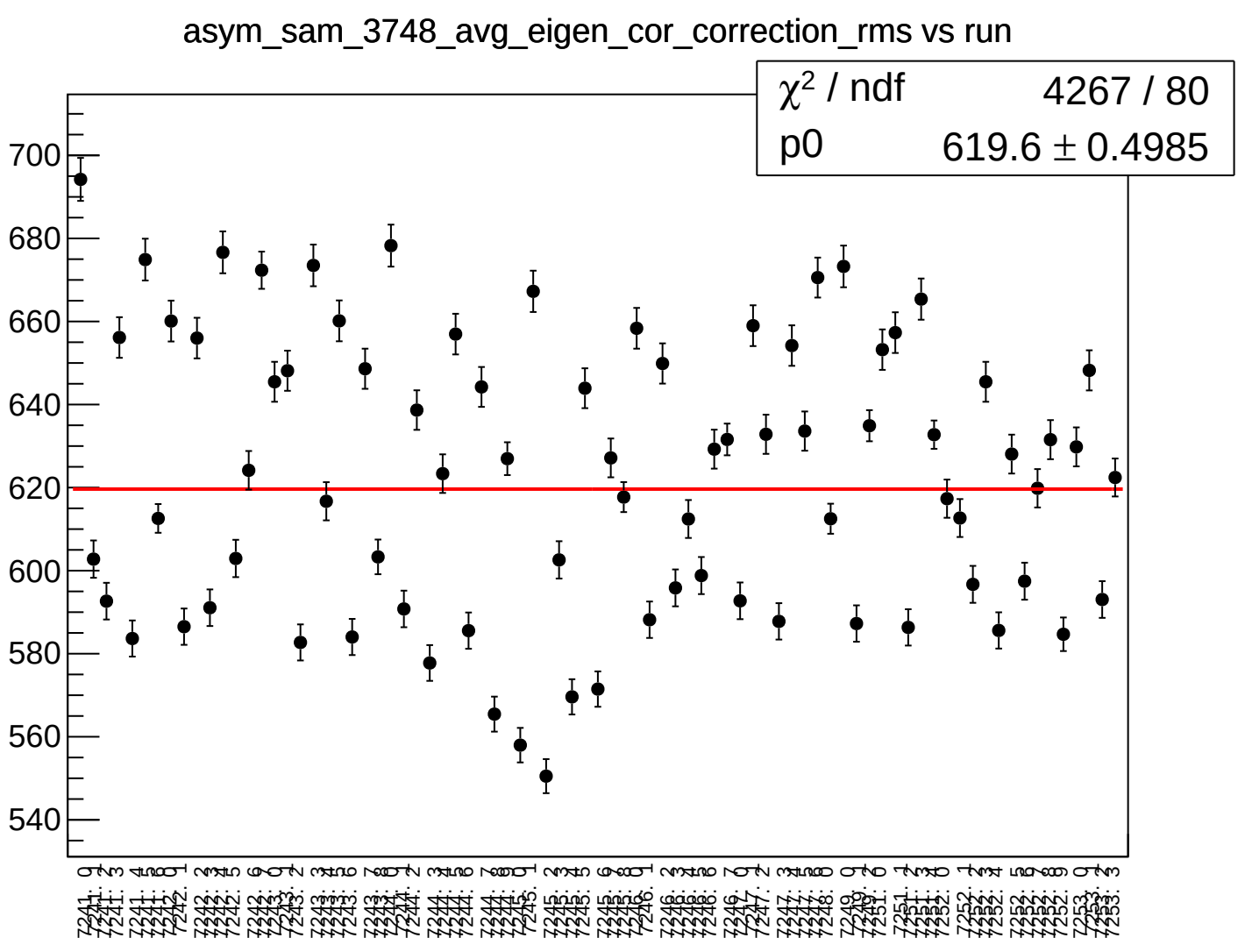

asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 4267 / 80
p0 619.6 ± 0.4985
700
680
660
640
620
600
580
560
540

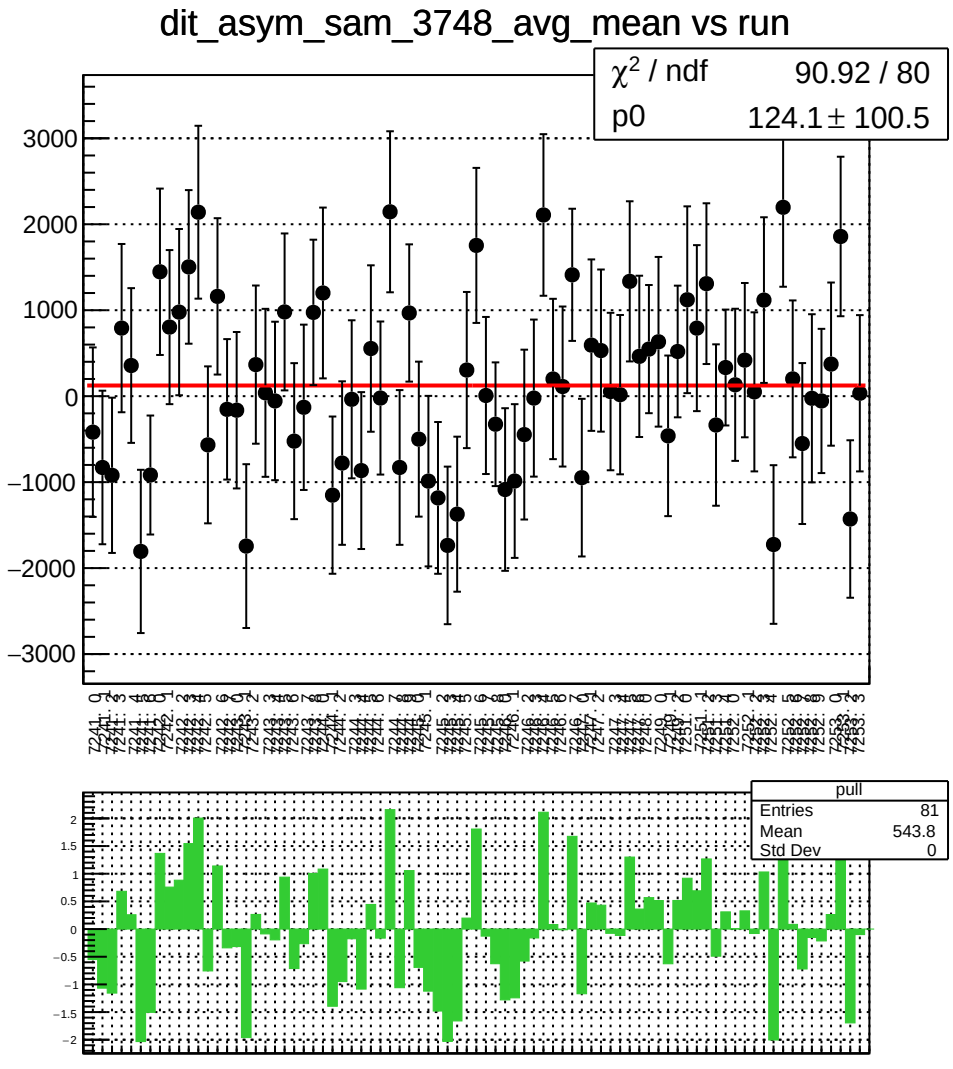

eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 88.65 / 80
p0 116.5 ± 89.45
pull
Entries 81
Mean 420.8
Std Dev 0
pull1D
Entries 81
Mean 0.01041
Std Dev 1.046

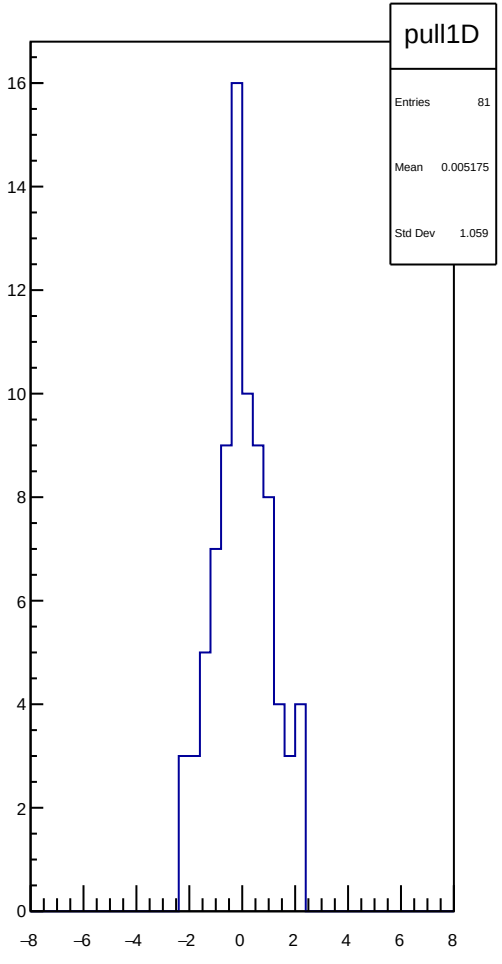

eigen_cor_asym_sam_3748_avg_rms vs run
χ² / ndf 1377 / 80
p0 78.69 ± 0.06325
95
90
85
80
75

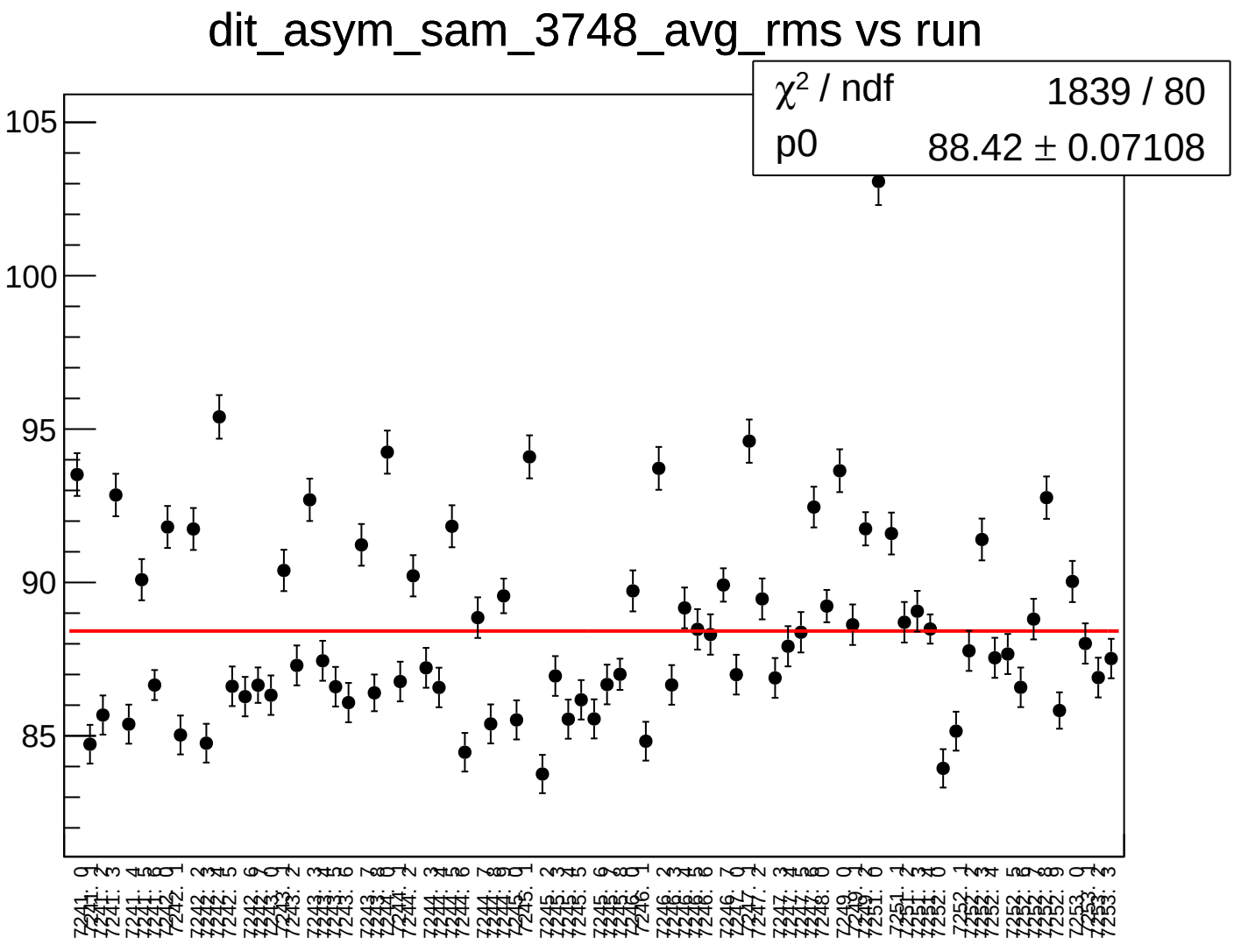

asym_sam_3748_avg_eigen_cor_correction_mean vs run
χ² / ndf 81.71 / 80
p0 −1488 ± 705
20000
10000
0
−10000
−20000
pull
Entries 81
Mean 53.38
Std Dev 0
2
1
0
−1
−2

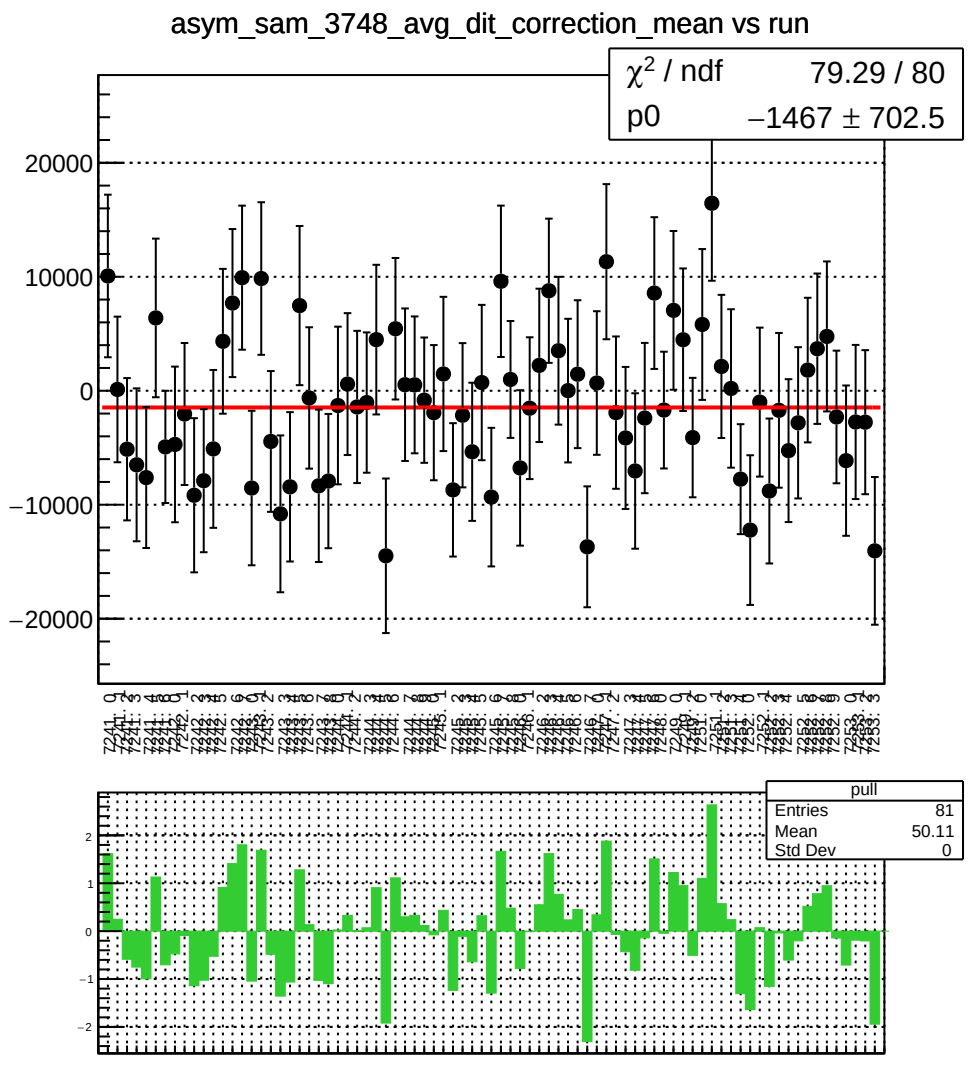

pull1D
Entries 81
Mean 0.02445
Std Dev 1.004
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

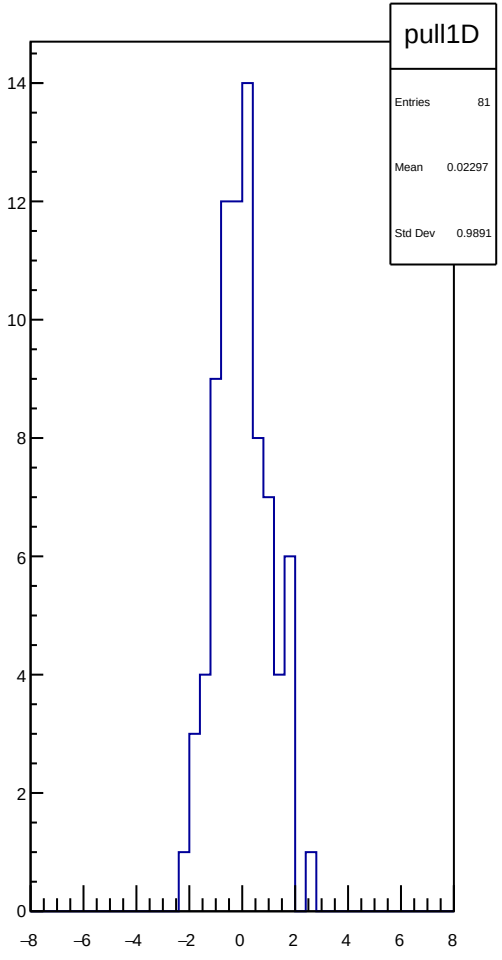

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 4267 / 80
p0 619.6 ± 0.4985
700
680
660
640
620
600
580
560
540

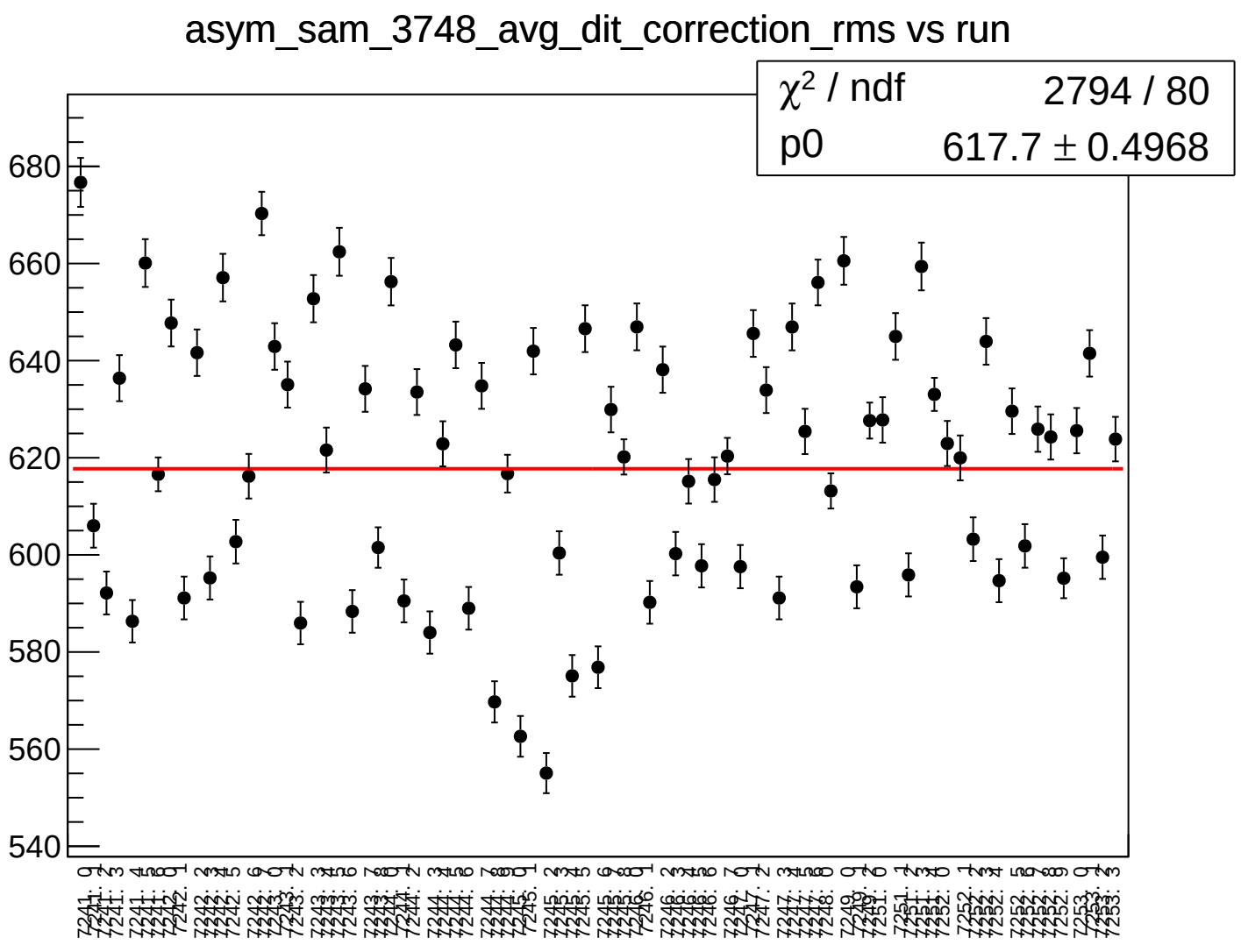

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 90.92 / 80
p0 124.1 ± 100.5
pull
Entries 81
Mean 543.8
Std Dev 0

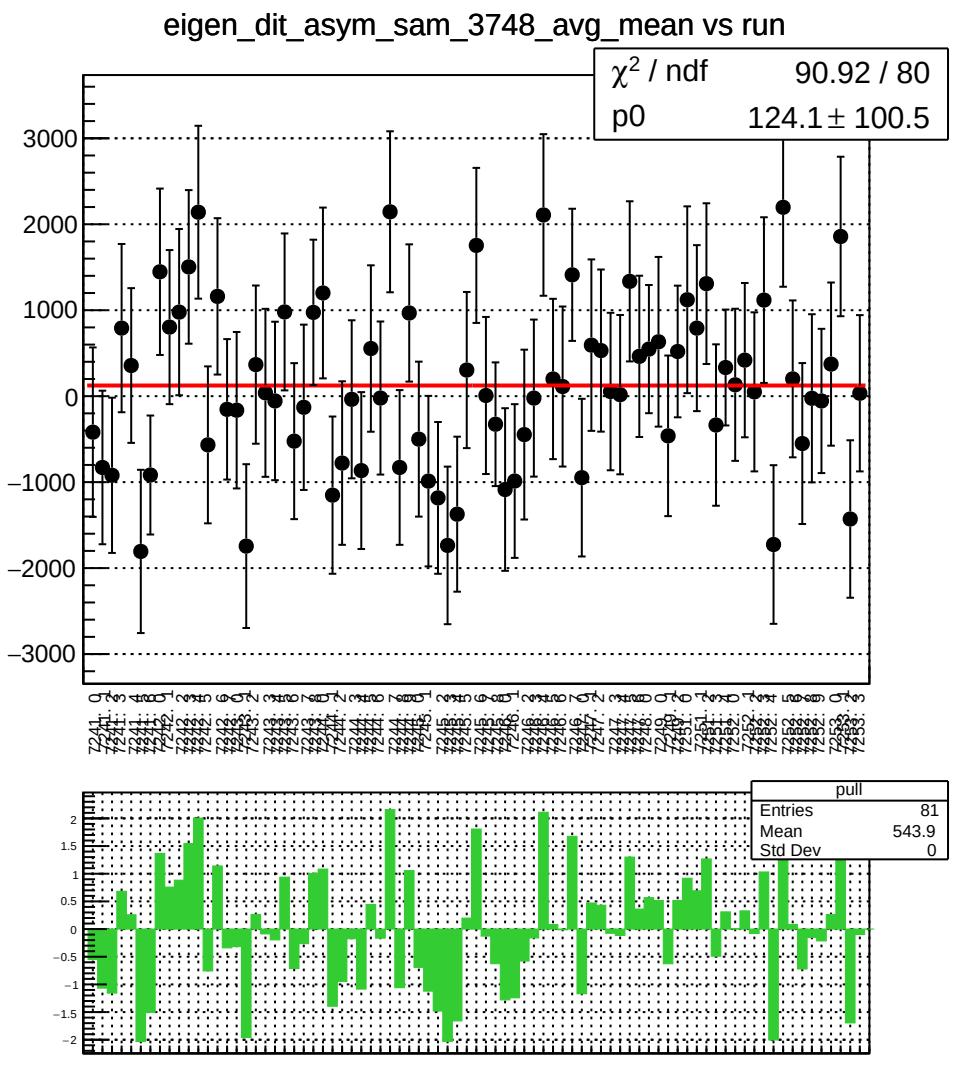

pull1D
Entries 81
Mean 0.005175
Std Dev 1.059

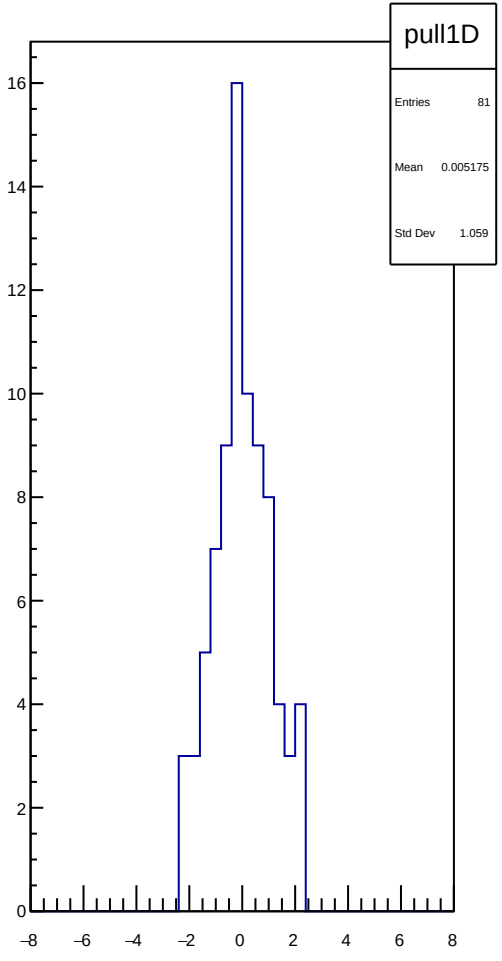

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 1839 / 80
p0 88.42 ± 0.07108
105
100
95
90
85

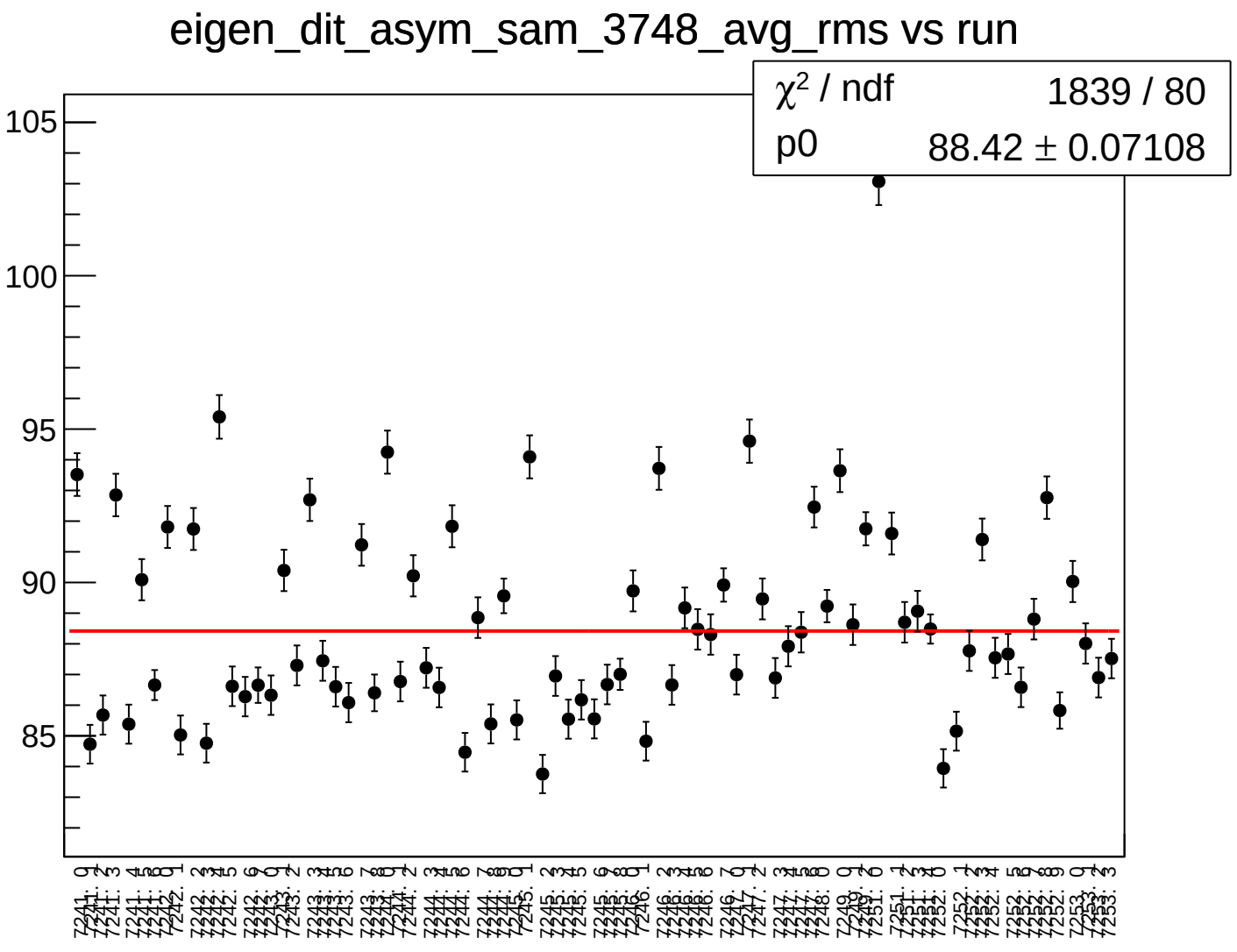

asym_sam_3748_avg_dit_correction_mean vs run
χ² / ndf 79.29 / 80
p0 −1467 ± 702.5
20000
10000
0
−10000
−20000
pull
Entries 81
Mean 50.11
Std Dev 0
2
1
0
−1
−2

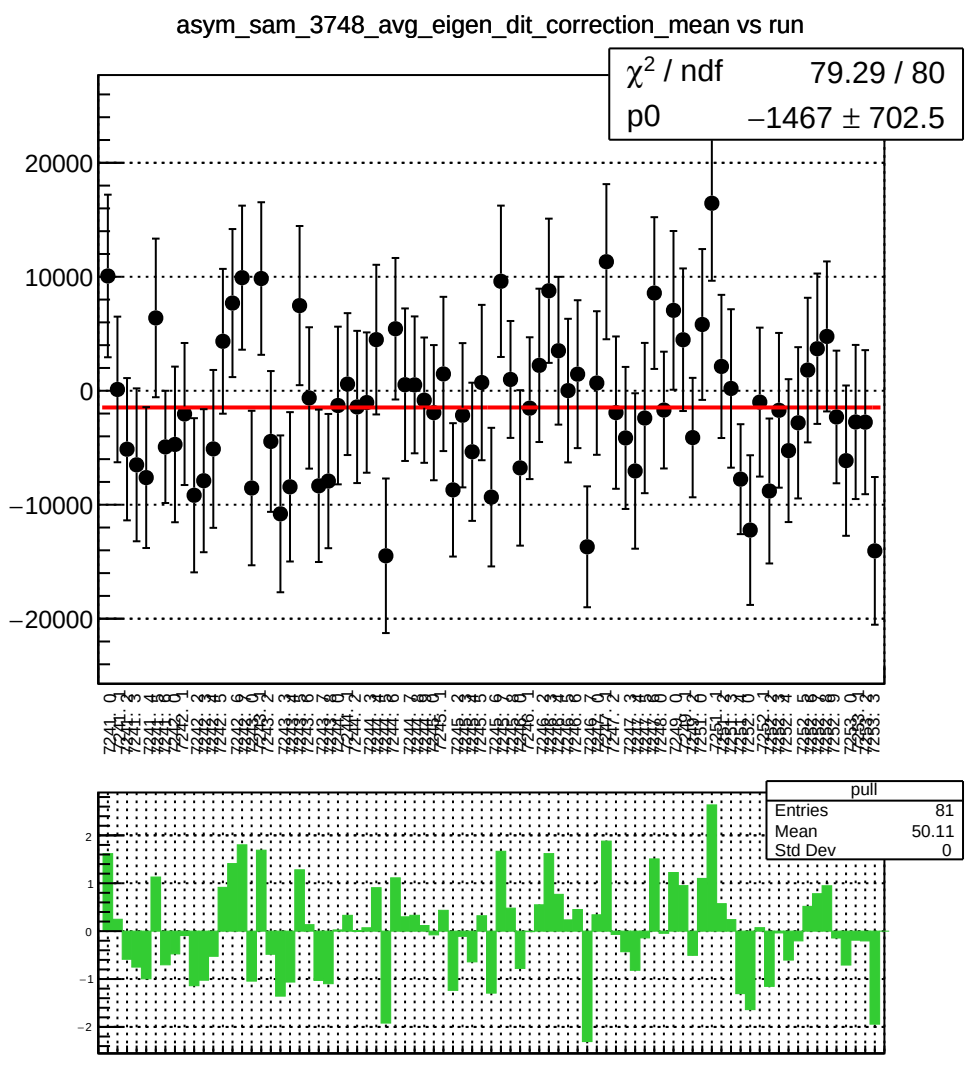

pull1D
Entries 81
Mean 0.02297
Std Dev 0.9891
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

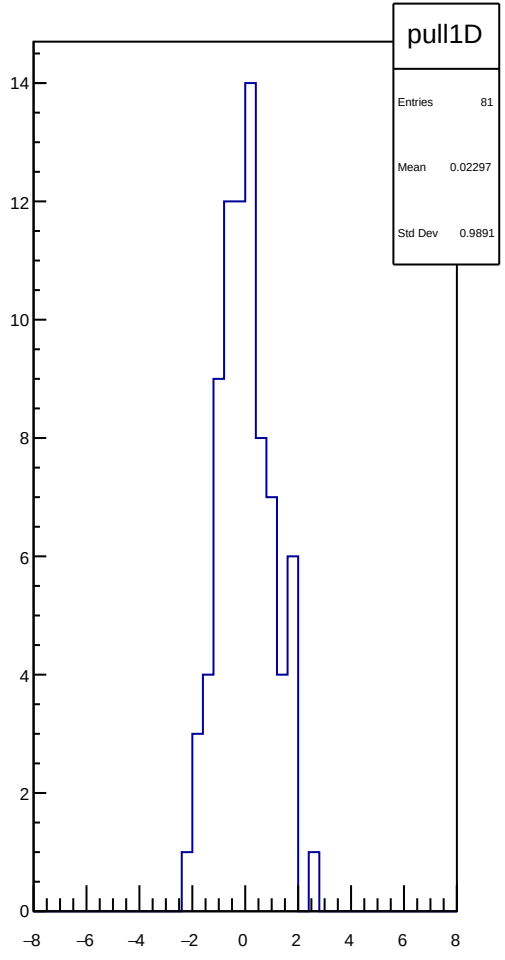

asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 2794 / 80
p0 617.7 ± 0.4968
680
660
640
620
600
580
560
540

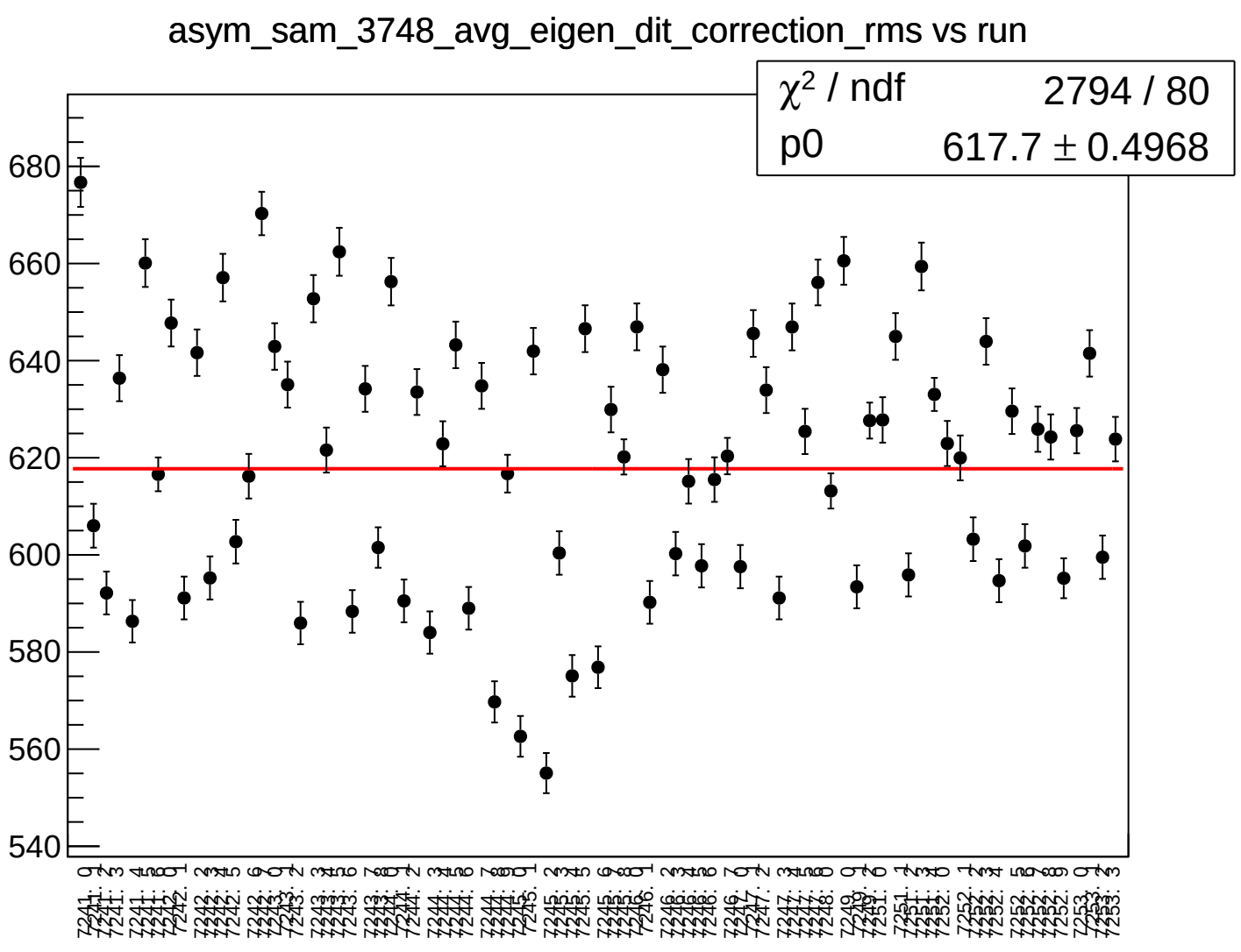

eigen_dit_asym_sam_3748_avg_mean vs run
χ^2 / ndf 90.92 / 80
p0 124.1 ± 100.5
pull
Entries 81
Mean 543.9
Std Dev 0

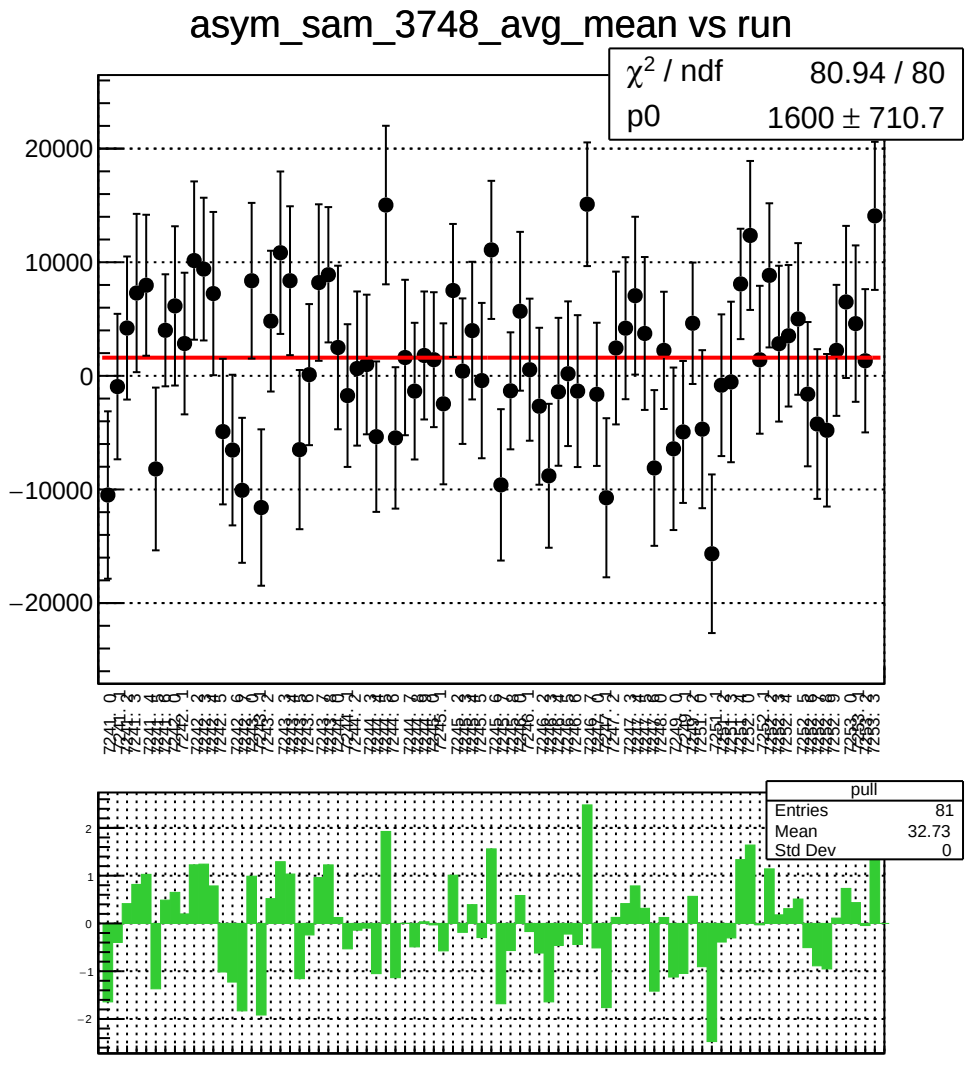

pull1D
Entries 81
Mean 0.005175
Std Dev 1.059

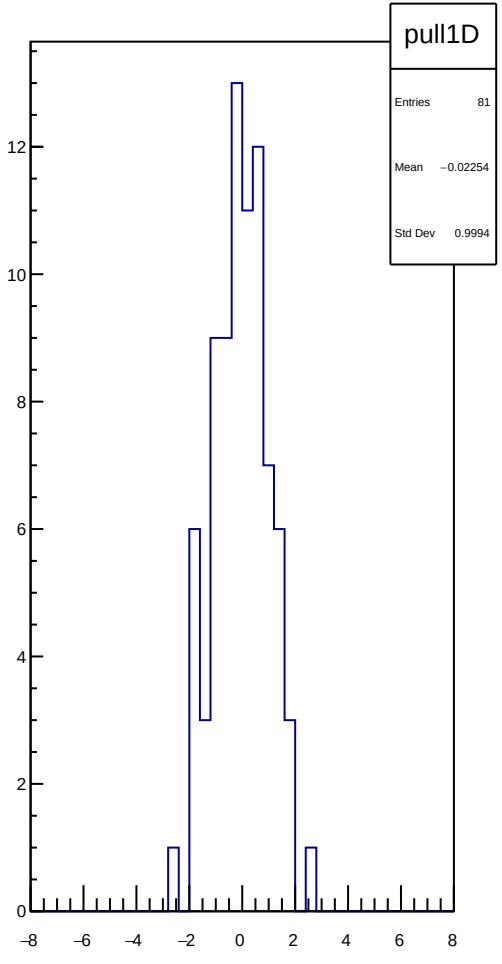

eigen_dit_asym_sam_3748_avg_rms vs run
χ^2 / ndf 1839 / 80
p0 88.42 ± 0.07108
105
100
95
90
85

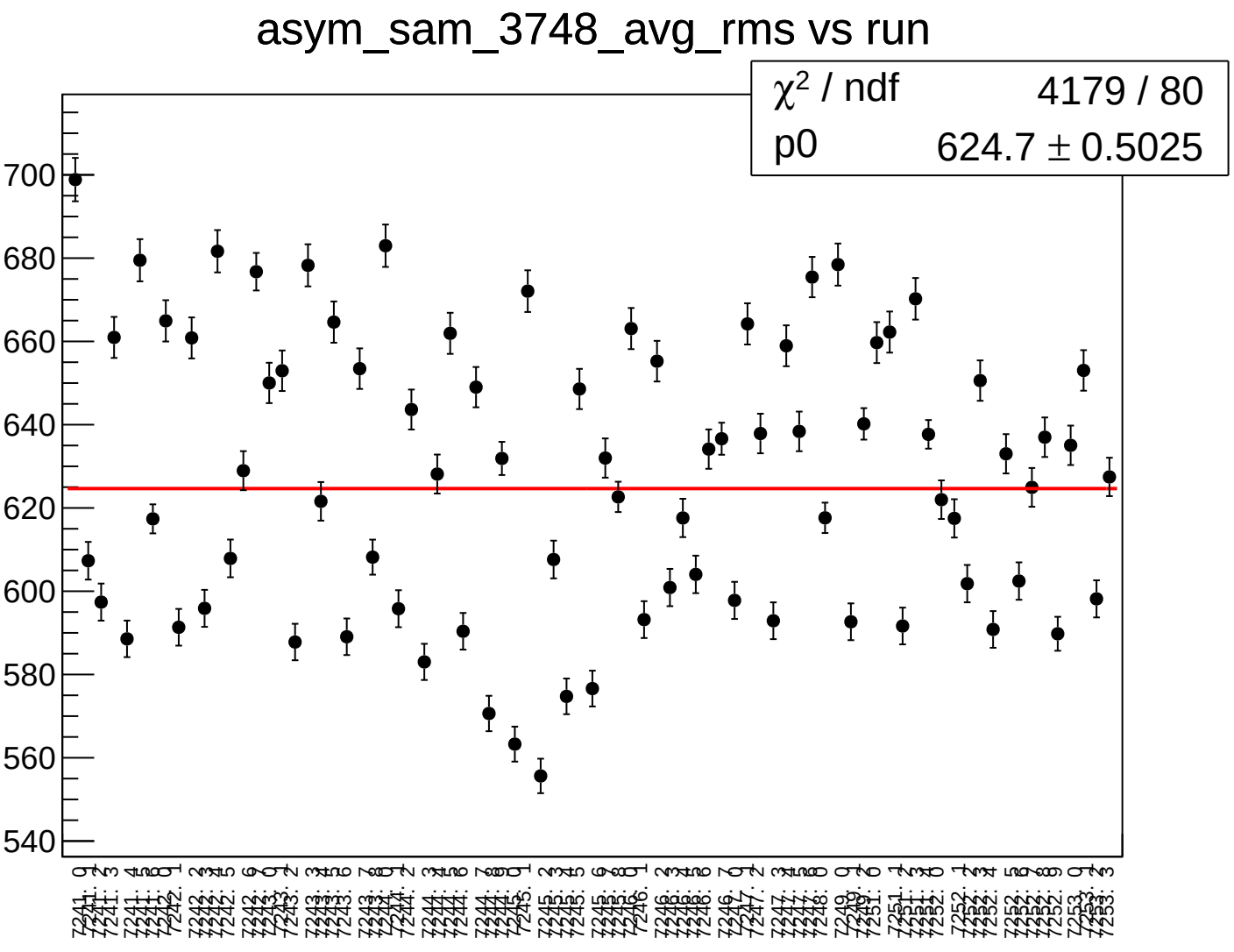

asym_sam_3748_avg_eigen_dit_correction_mean vs run
χ² / ndf 79.29 / 80
p0 −1467 ± 702.5
20000
10000
0
−10000
−20000
pull
Entries 81
Mean 50.11
Std Dev 0
2
1
0
−1
−2

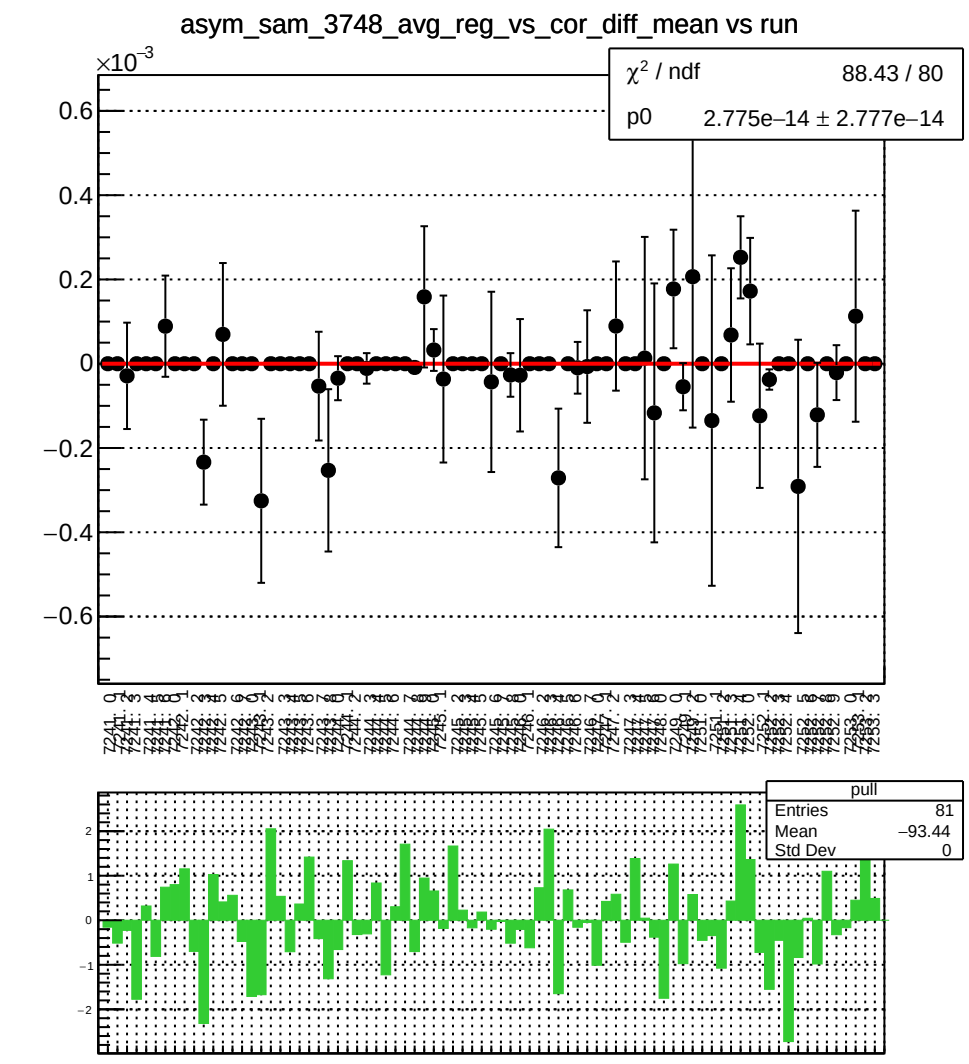

pull1D
Entries 81
Mean 0.02297
Std Dev 0.9891
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

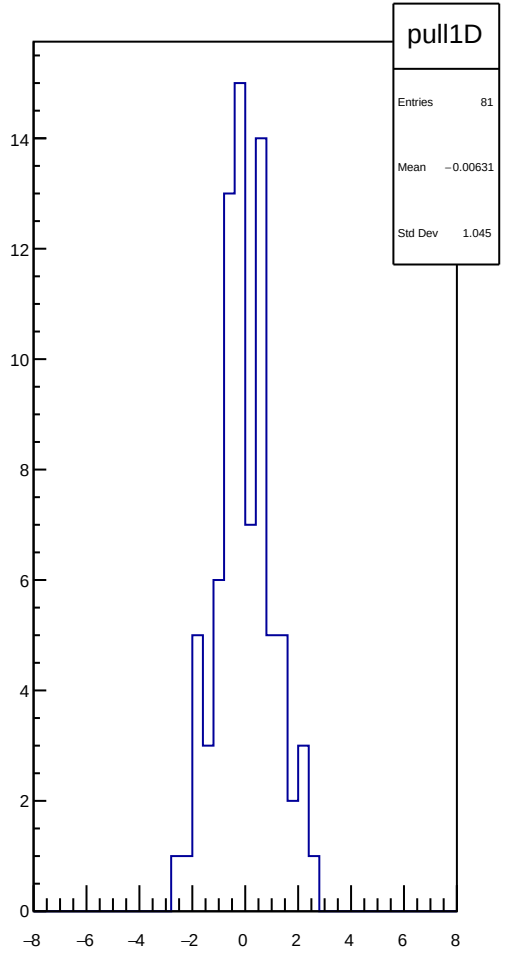

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 2794 / 80
p0 617.7 ± 0.4968
680
660
640
620
600
580
560
540

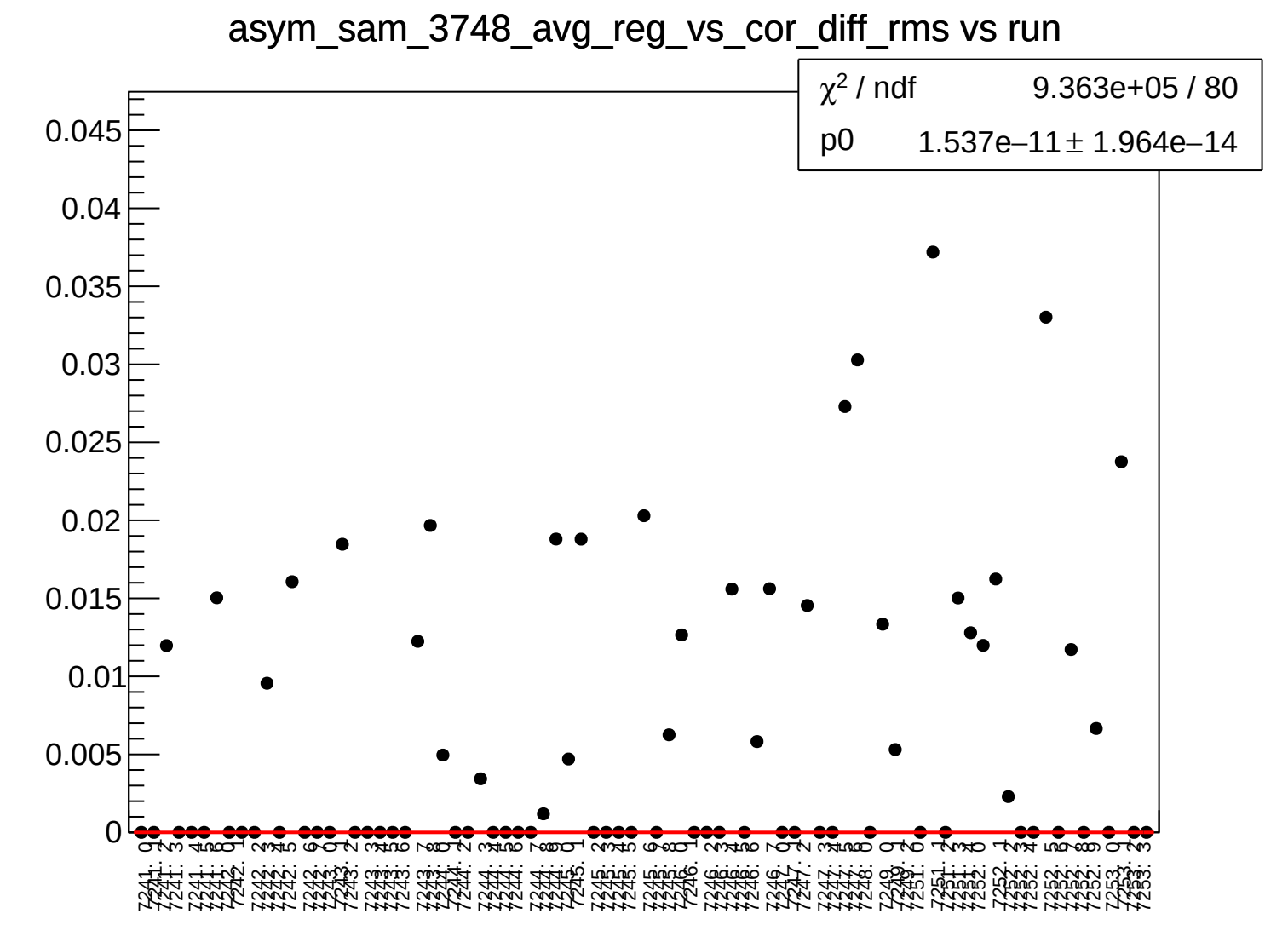

asym_sam_3748_avg_mean vs run
χ² / ndf 80.94 / 80
p0 1600 ± 710.7
20000
10000
0
−10000
−20000
pull
Entries 81
Mean 32.73
Std Dev 0
2
1
0
−1
−2

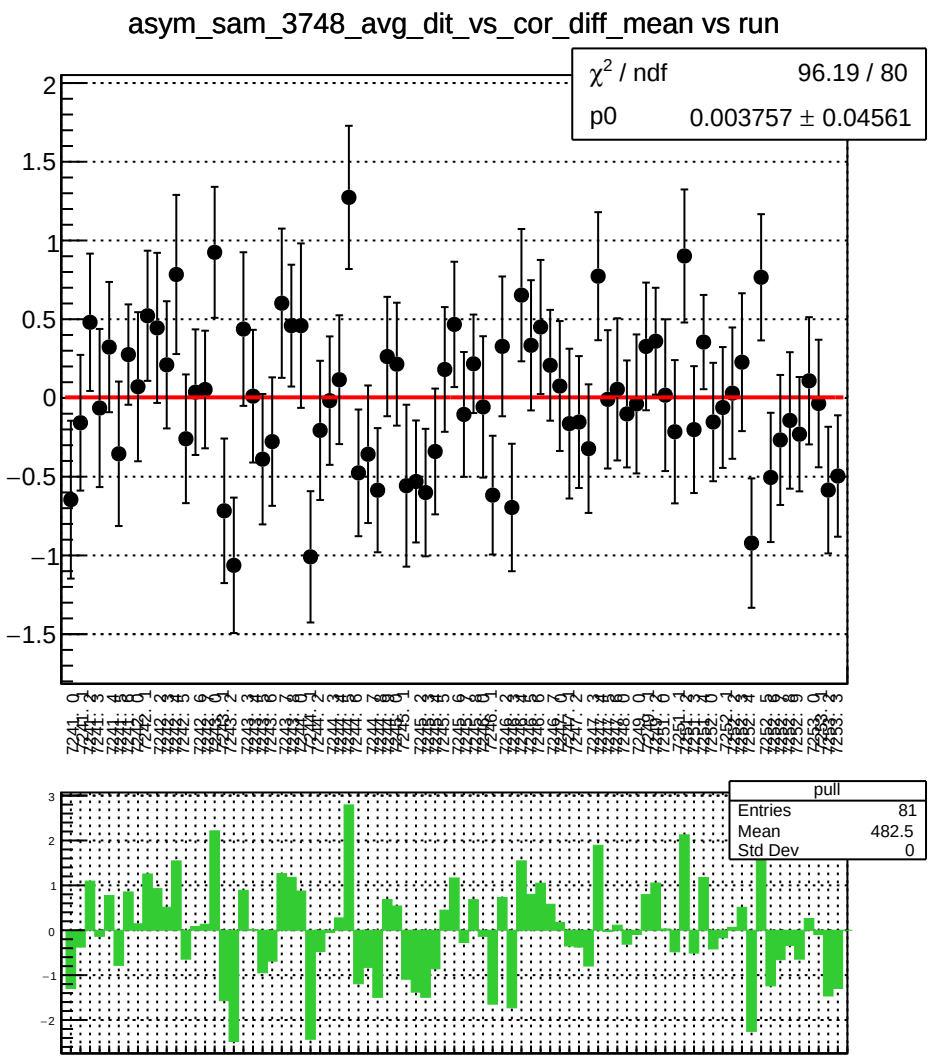

pull1D
Entries 81
Mean −0.02254
Std Dev 0.9994
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

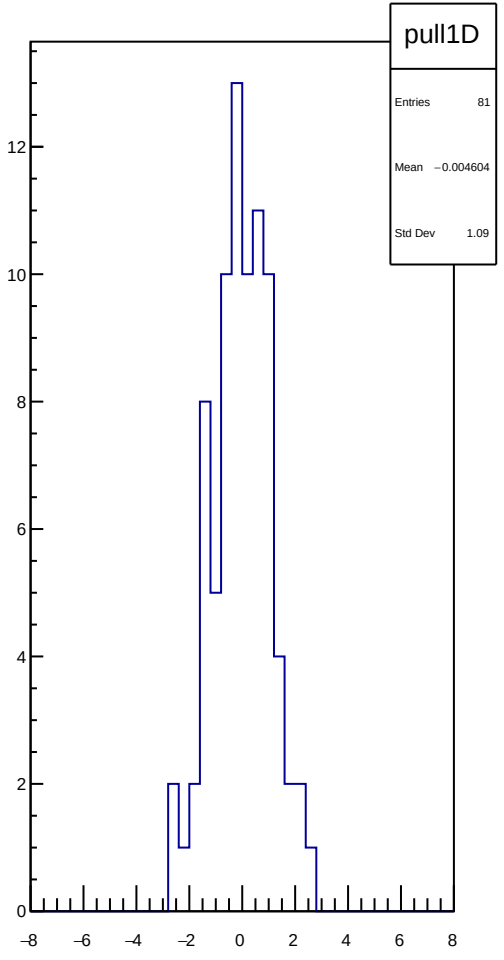

asym_sam_3748_avg_rms vs run
χ² / ndf 4179 / 80
p0 624.7 ± 0.5025
700
680
660
640
620
600
580
560
540

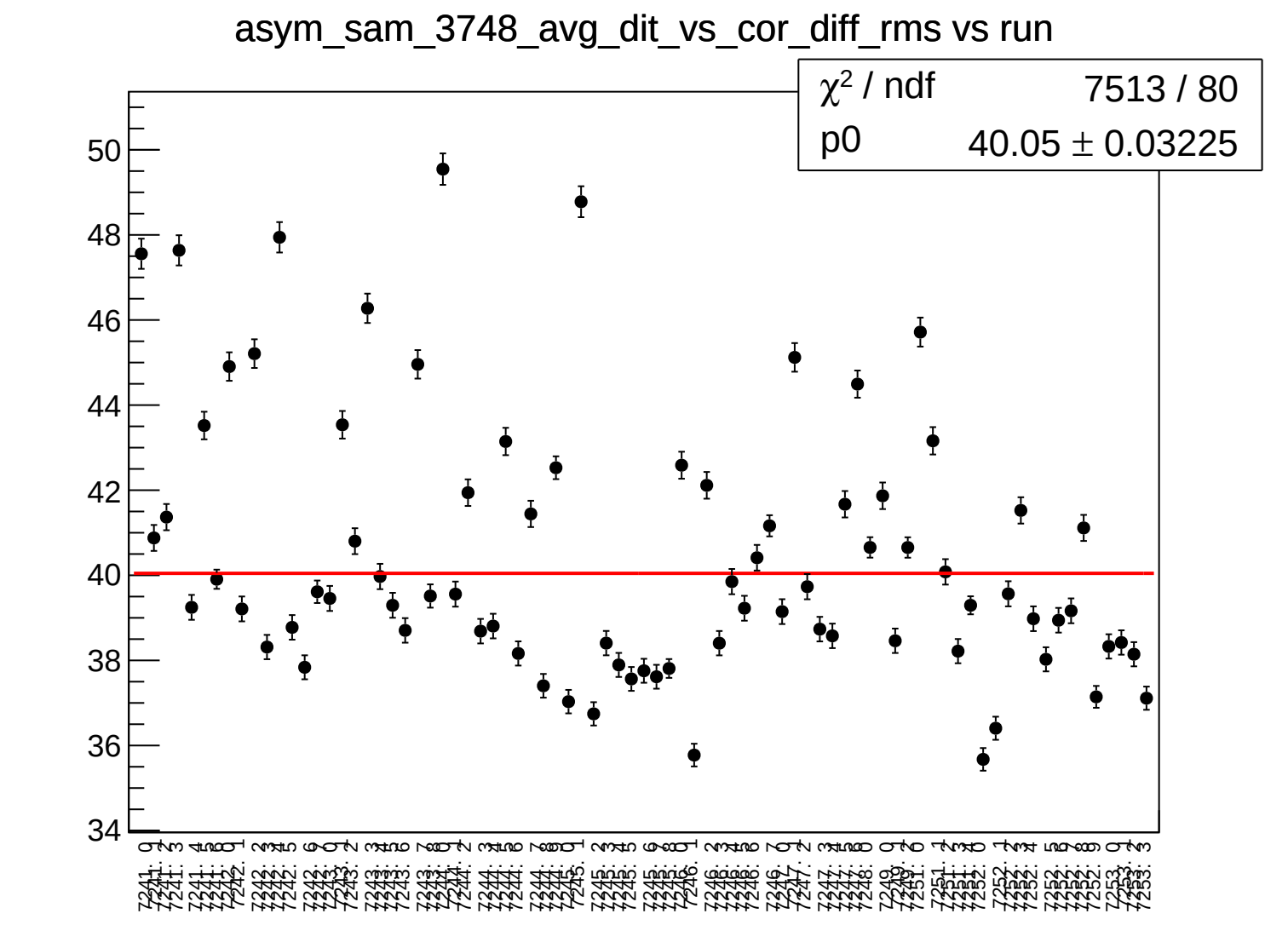

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 88.43 / 80
p0 2.775e−14 ± 2.777e−14
pull
Entries 81
Mean −93.44
Std Dev 0

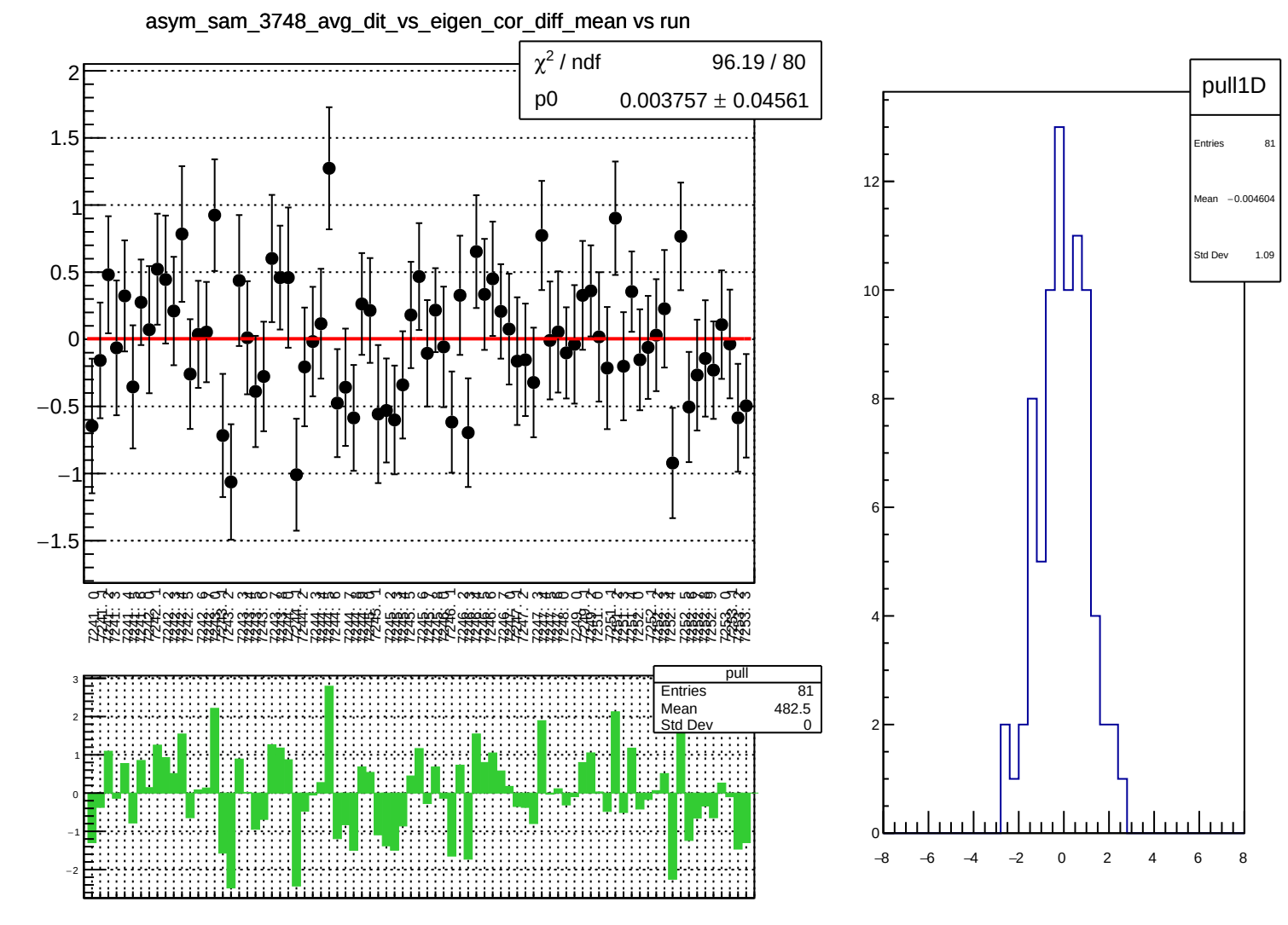

pull1D
Entries 81
Mean −0.00631
Std Dev 1.045

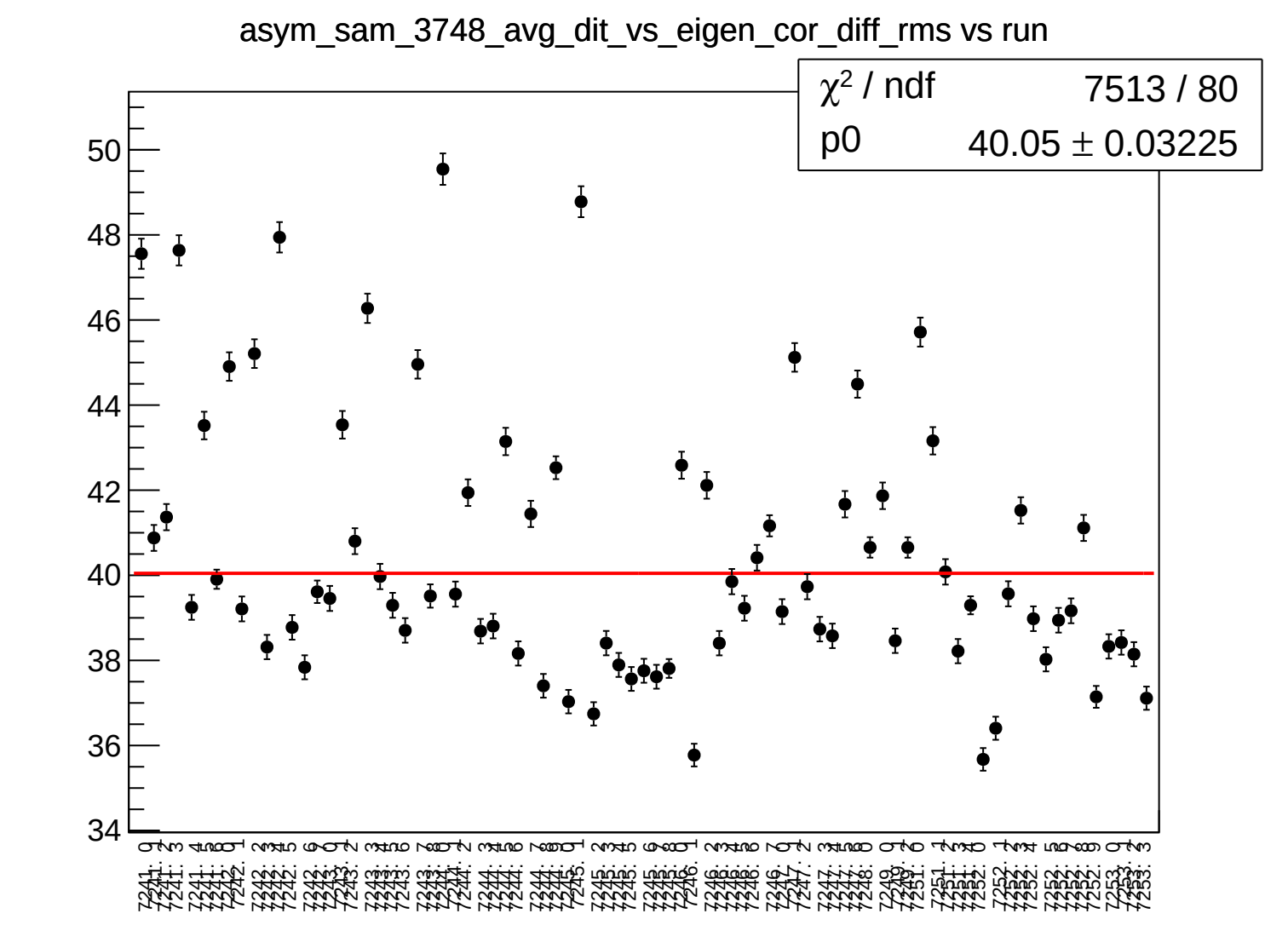

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.363e+05 / 80
p0 1.537e−11 ± 1.964e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

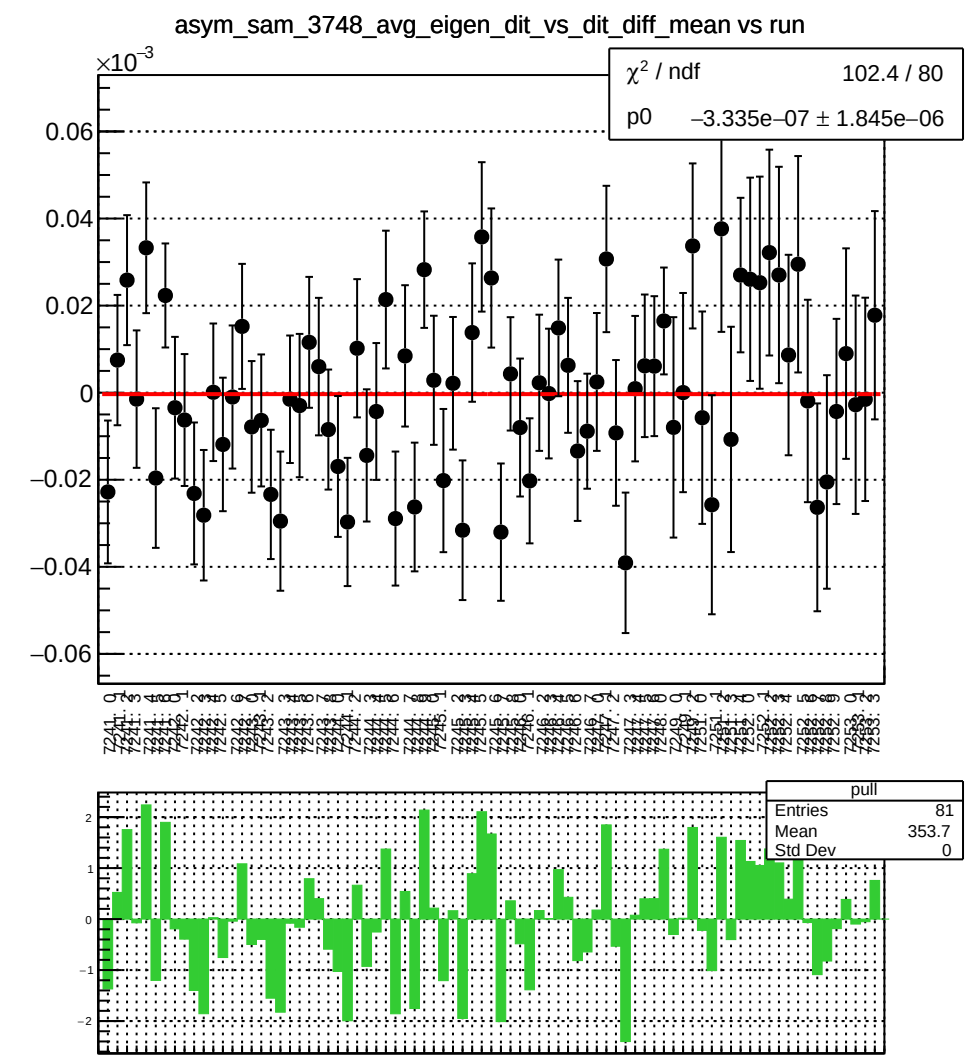

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 96.19 / 80
p0 0.003757 ± 0.04561
pull
Entries 81
Mean 482.5
Std Dev 0

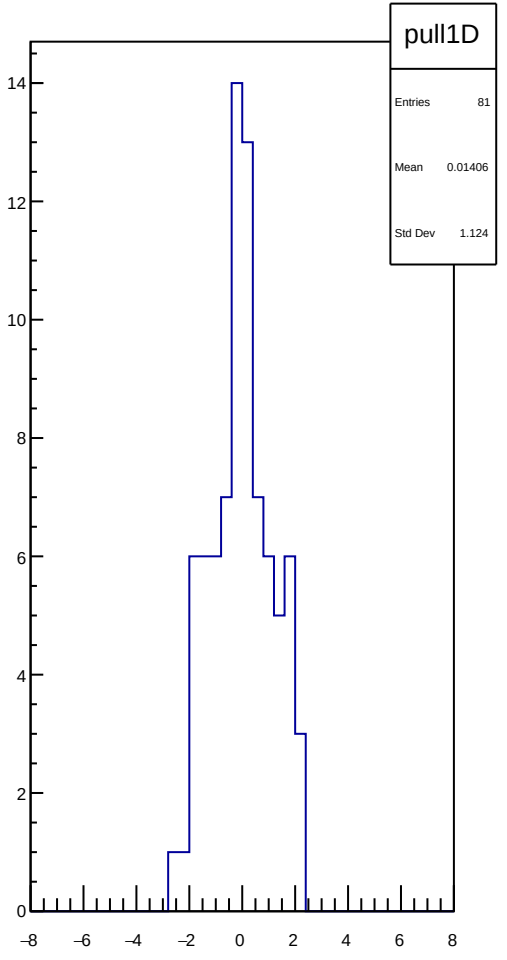

pull1D
Entries 81
Mean −0.004604
Std Dev 1.09

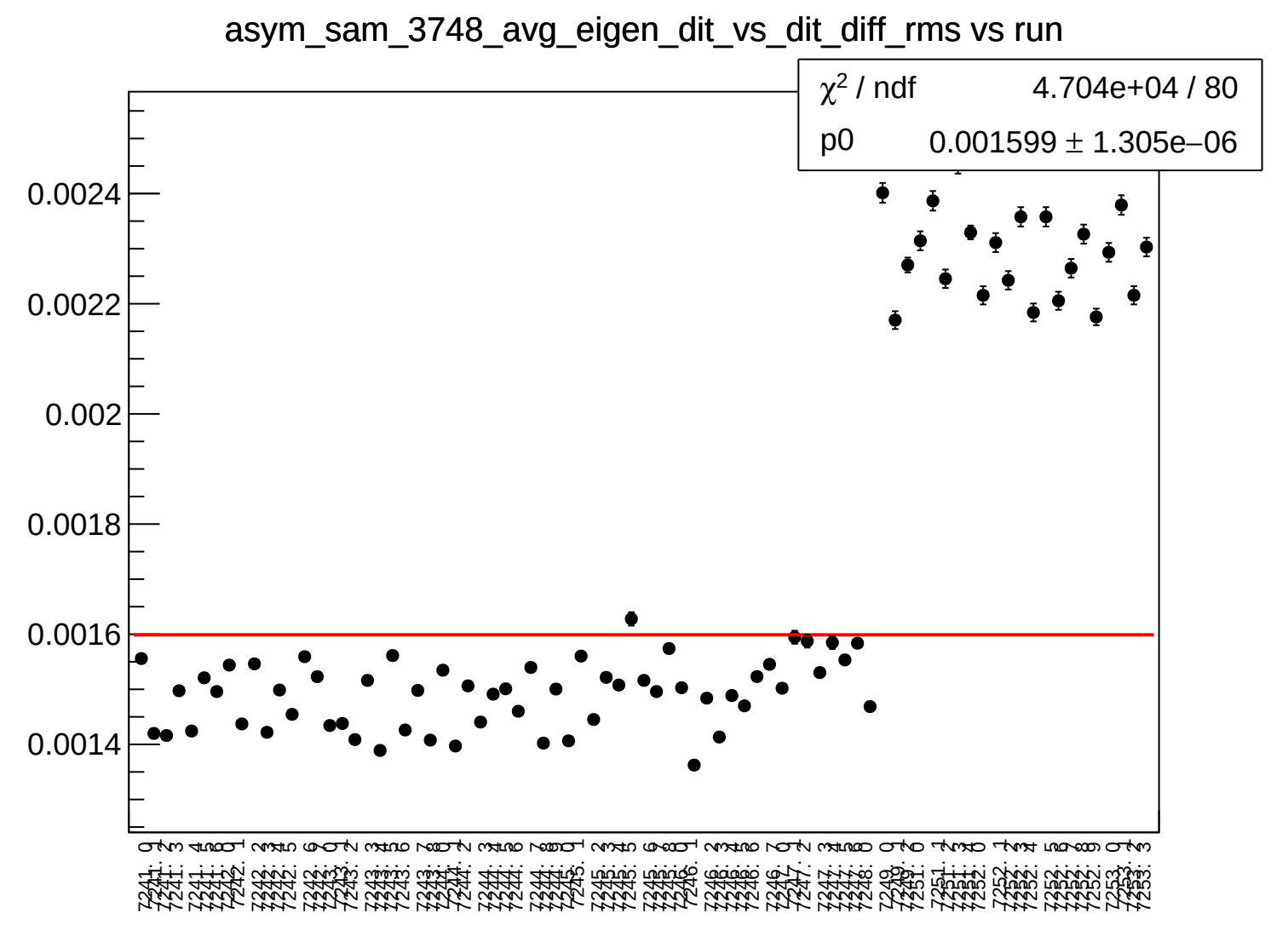

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7513 / 80
p0 40.05 ± 0.03225
50
48
46
44
42
40
38
36
34

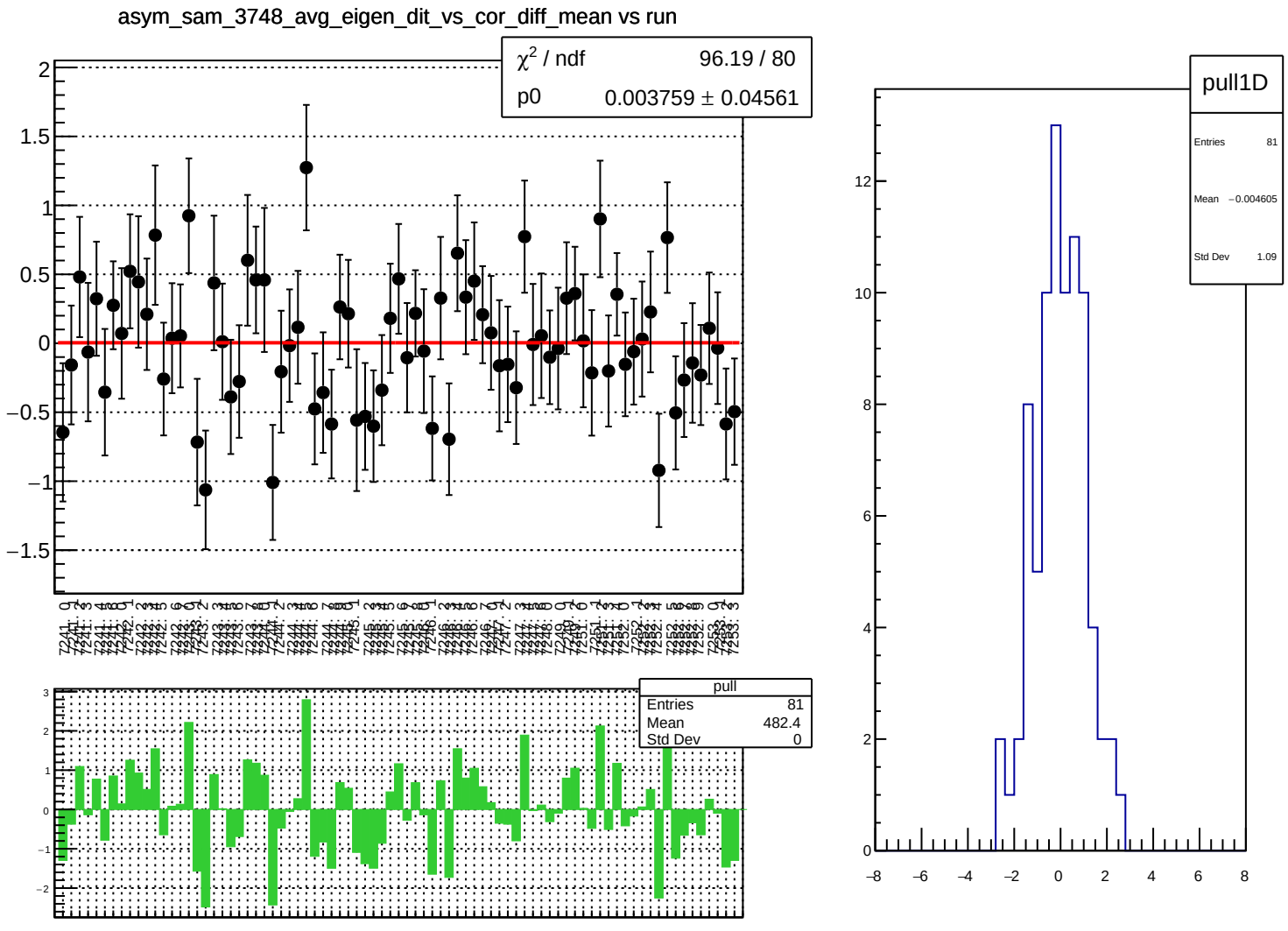

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.19 / 80
p0 0.003757 ± 0.04561
pull
Entries 81
Mean 482.5
Std Dev 0
pull1D
Entries 81
Mean −0.004604
Std Dev 1.09

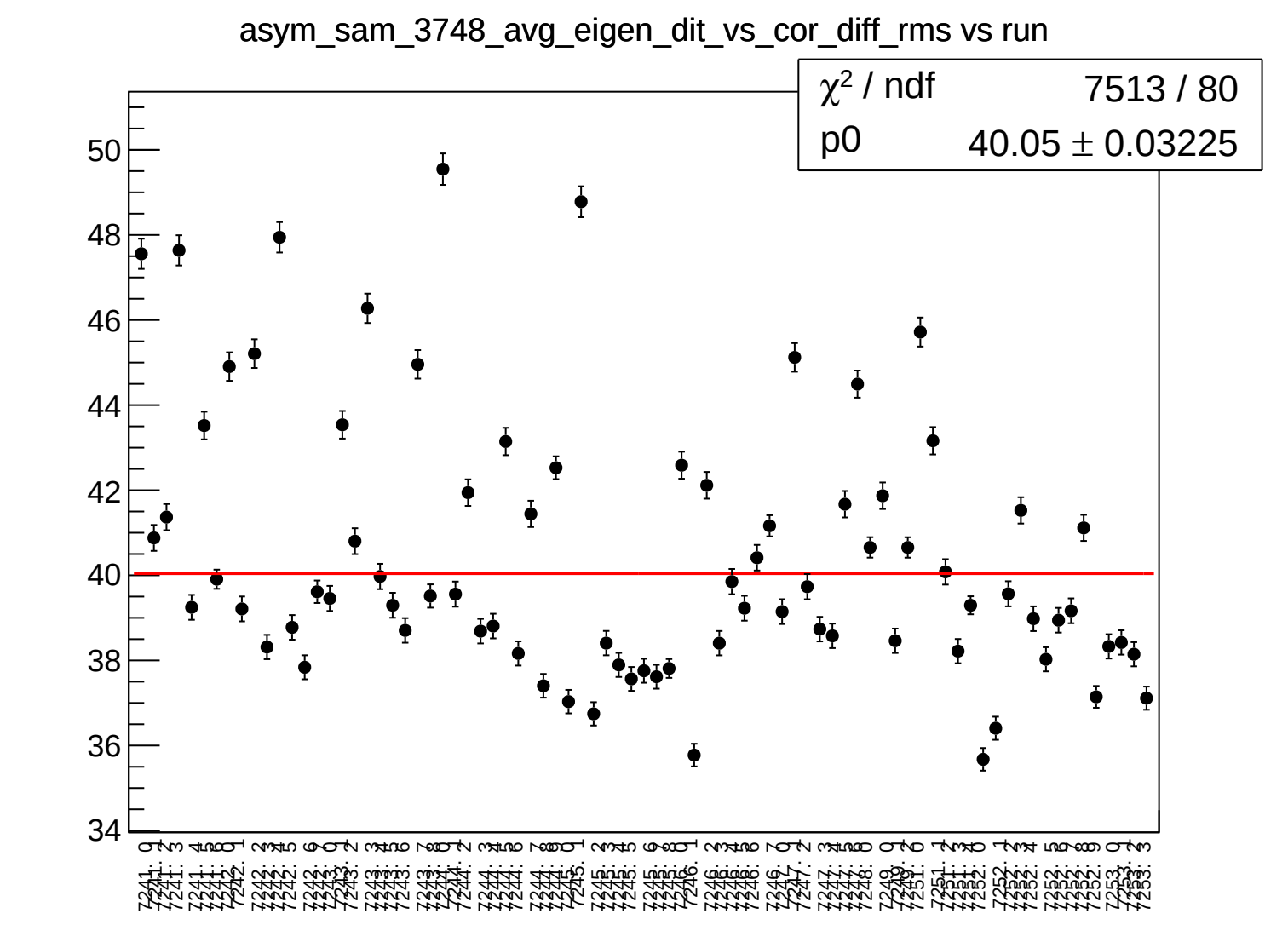

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7513 / 80
p0 40.05 ± 0.03225
50
48
46
44
42
40
38
36
34

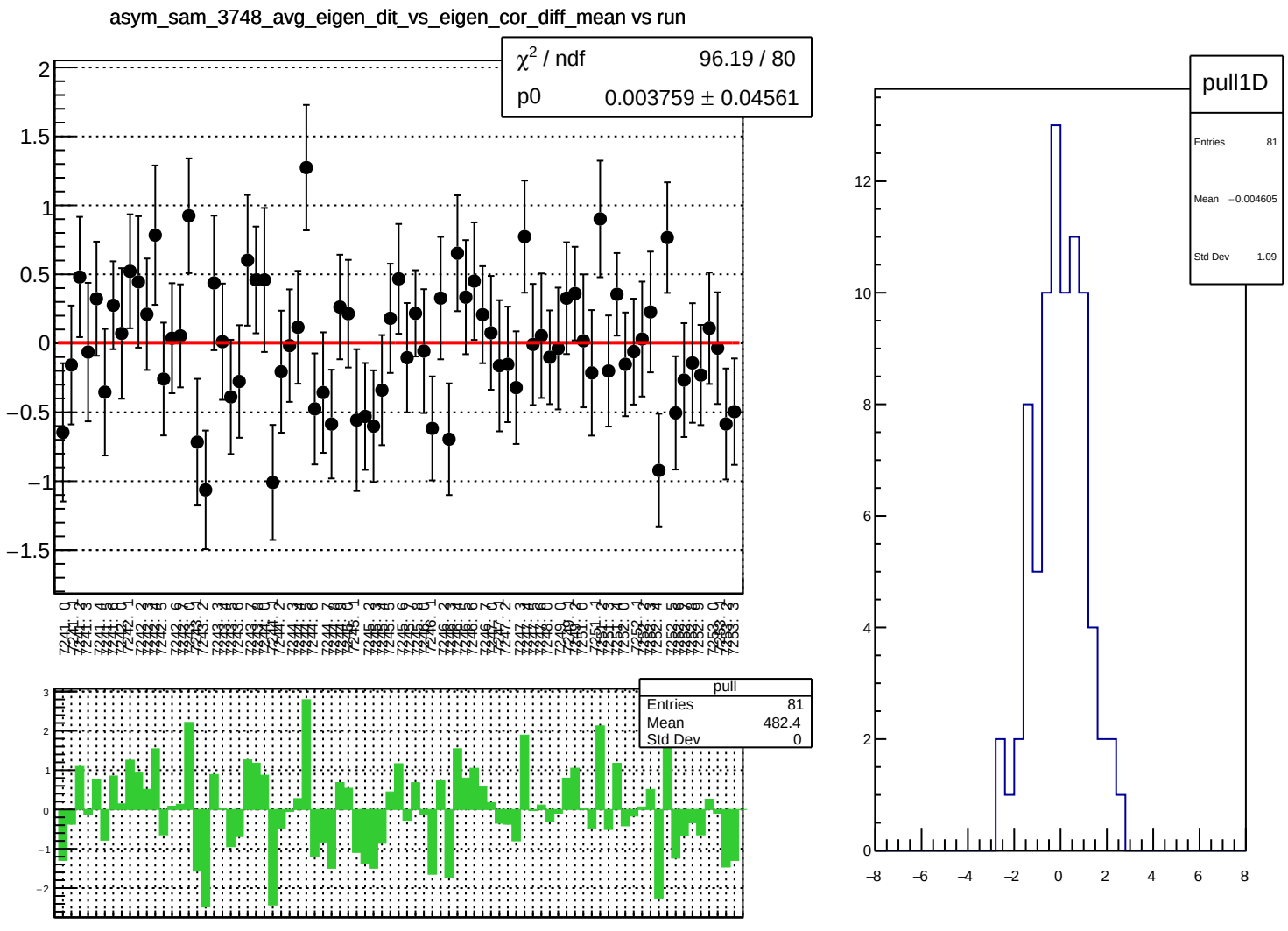

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 102.4 / 80
p0 −3.335e−07 ± 1.845e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 81
Mean 353.7
Std Dev 0
2
1
0
−1
−2

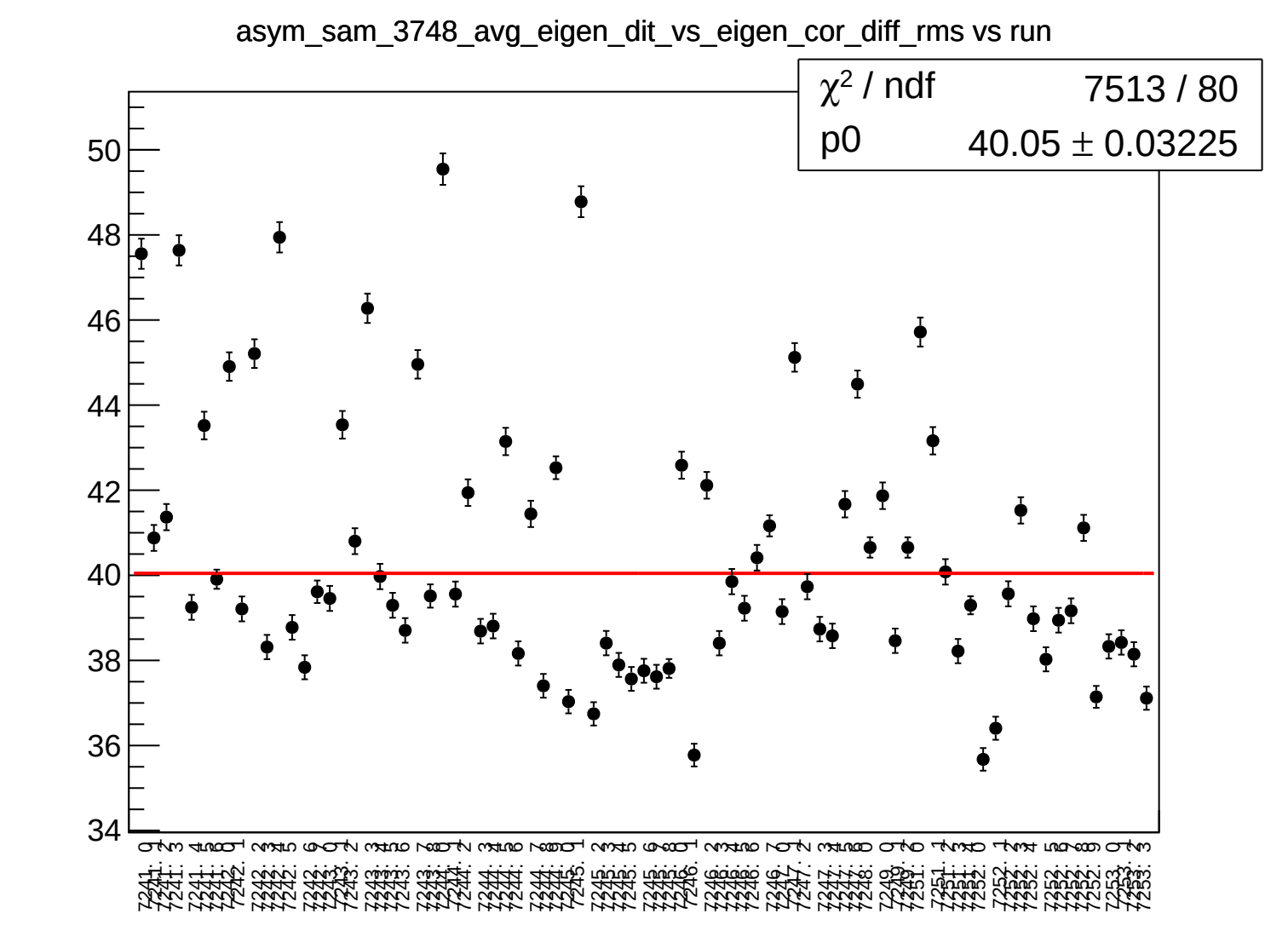

pull1D
Entries 81
Mean 0.01406
Std Dev 1.124
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

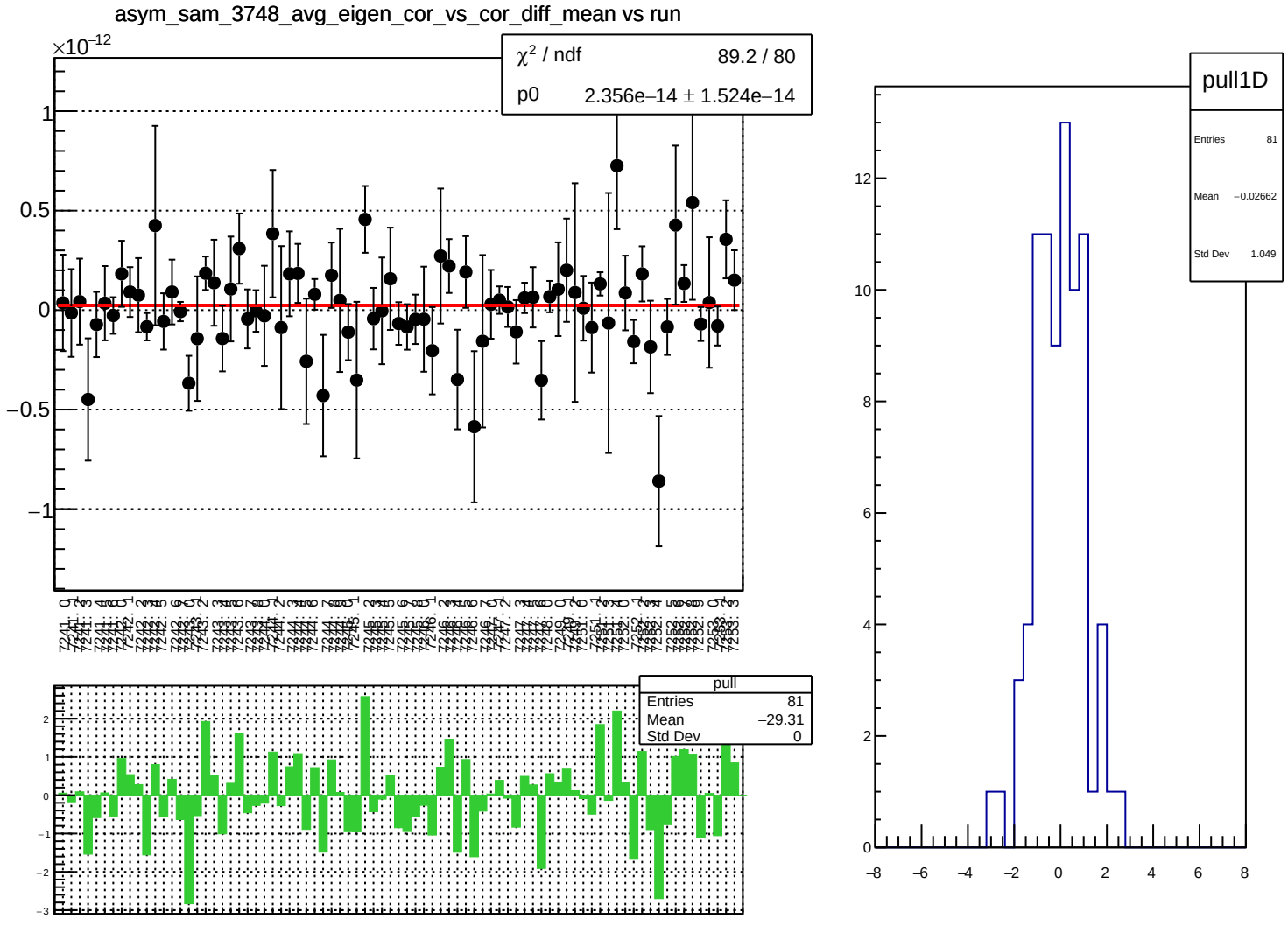

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.704e+04 / 80
p0 0.001599 ± 1.305e−06
0.0024
0.0022
0.002
0.0018
0.0016
0.0014

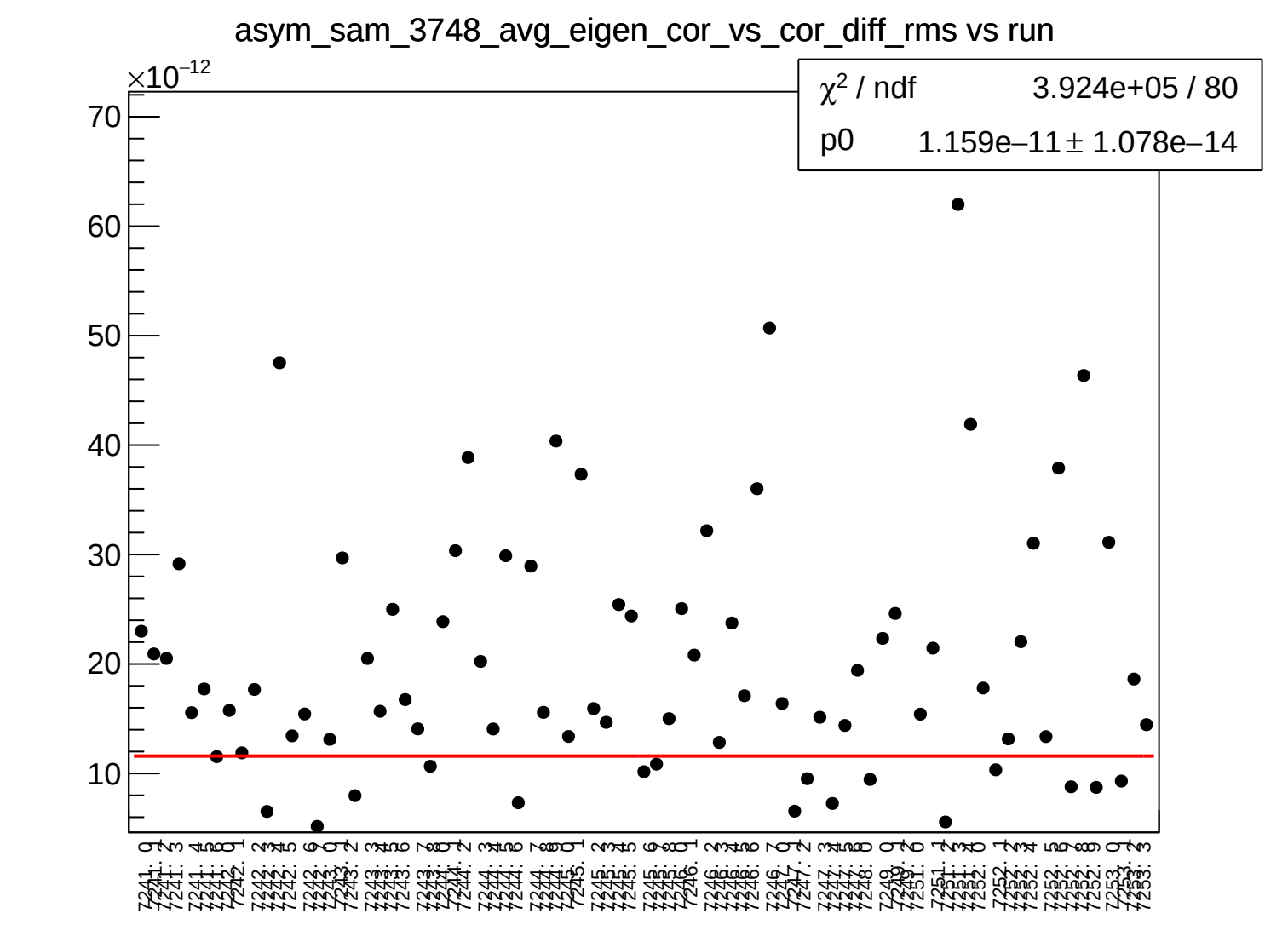

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.19 / 80
p0 0.003759 ± 0.04561
pull
Entries 81
Mean 482.4
Std Dev 0
pull1D
Entries 81
Mean −0.004605
Std Dev 1.09

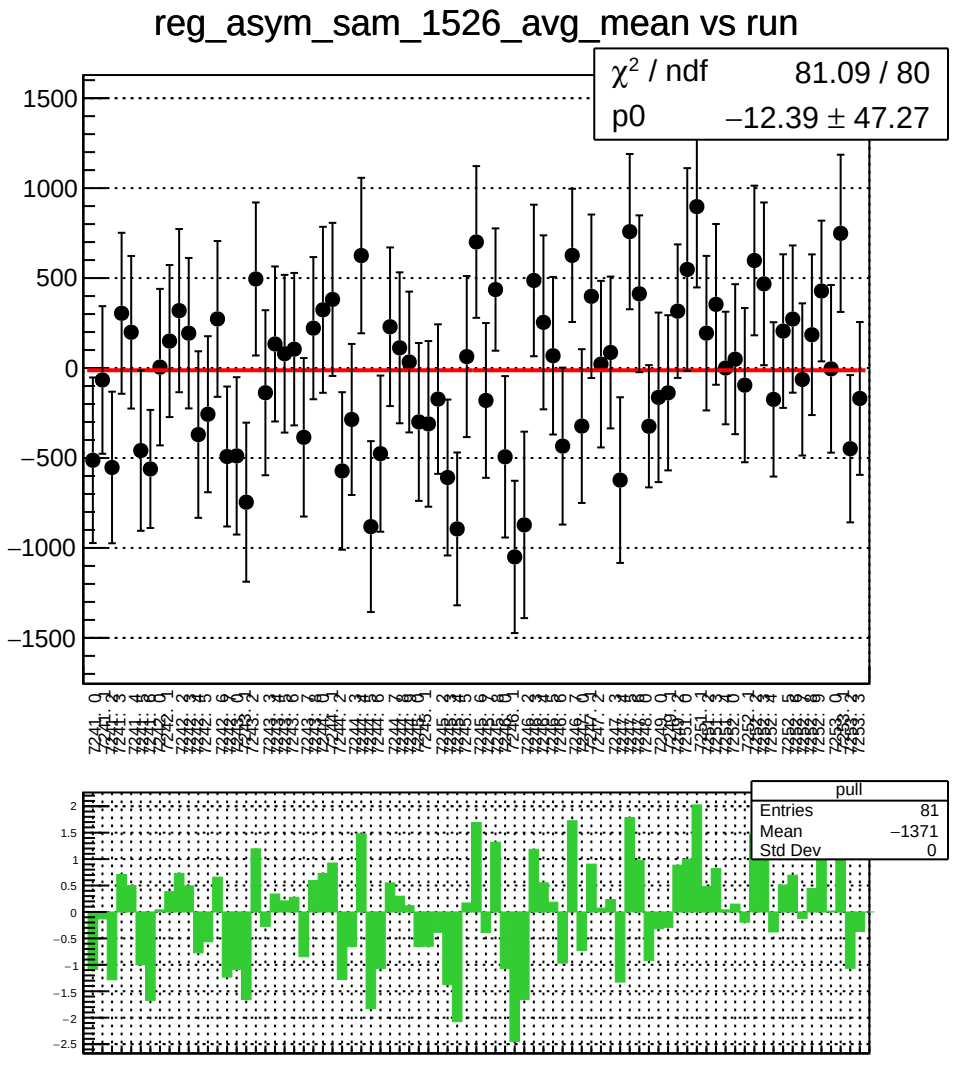

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7513 / 80
p0 40.05 ± 0.03225
50
48
46
44
42
40
38
36
34

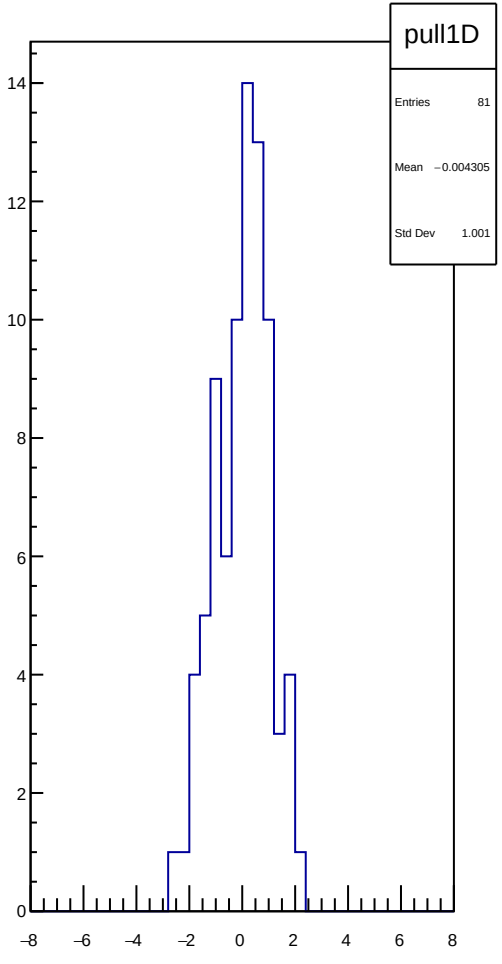

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.19 / 80
p0 0.003759 ± 0.04561
pull
Entries 81
Mean 482.4
Std Dev 0
pull1D
Entries 81
Mean −0.004605
Std Dev 1.09

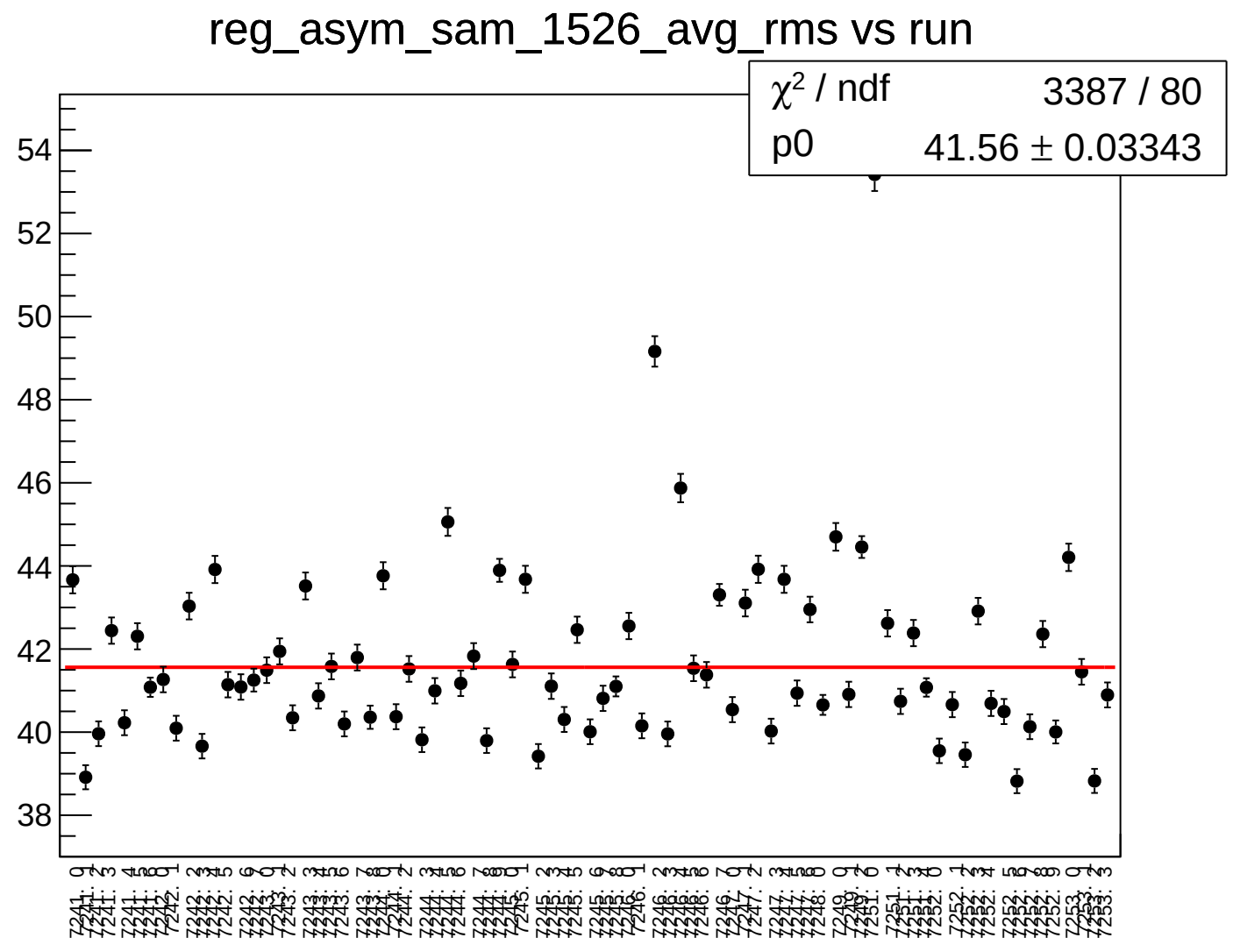

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7513 / 80
p0 40.05 ± 0.03225
50
48
46
44
42
40
38
36
34

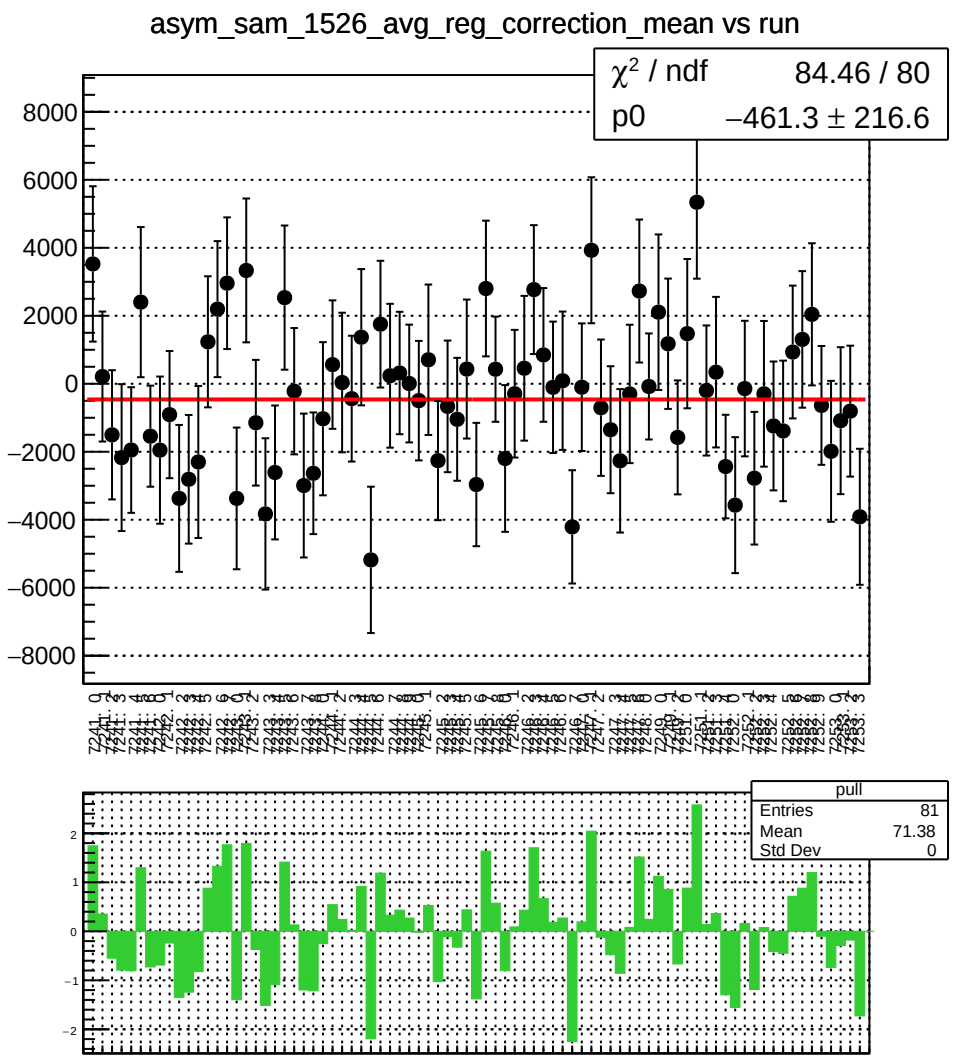

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.2 / 80
p0 2.356e−14 ± 1.524e−14
pull
Entries 81
Mean −29.31
Std Dev 0
pull1D
Entries 81
Mean −0.02662
Std Dev 1.049

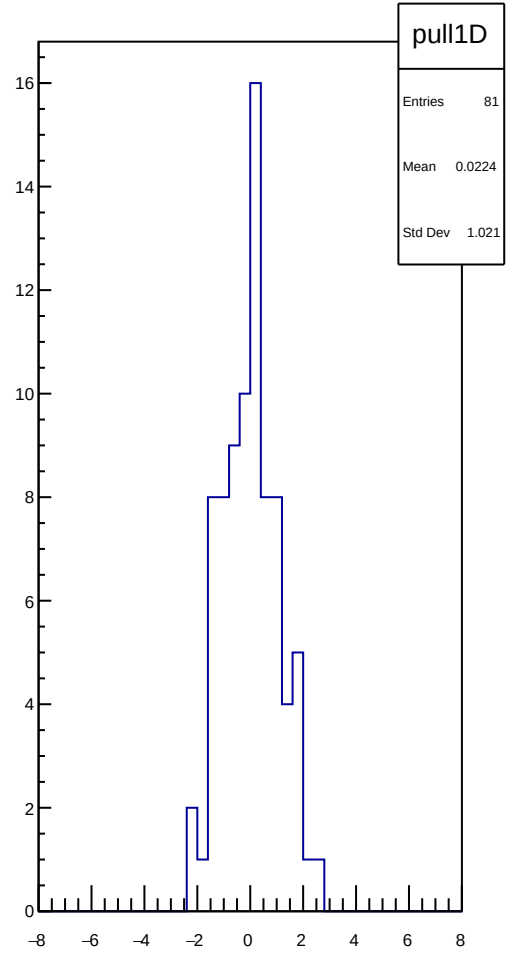

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.924e+05 / 80
p0 1.159e−11 ± 1.078e−14
70
60
50
40
30
20
10

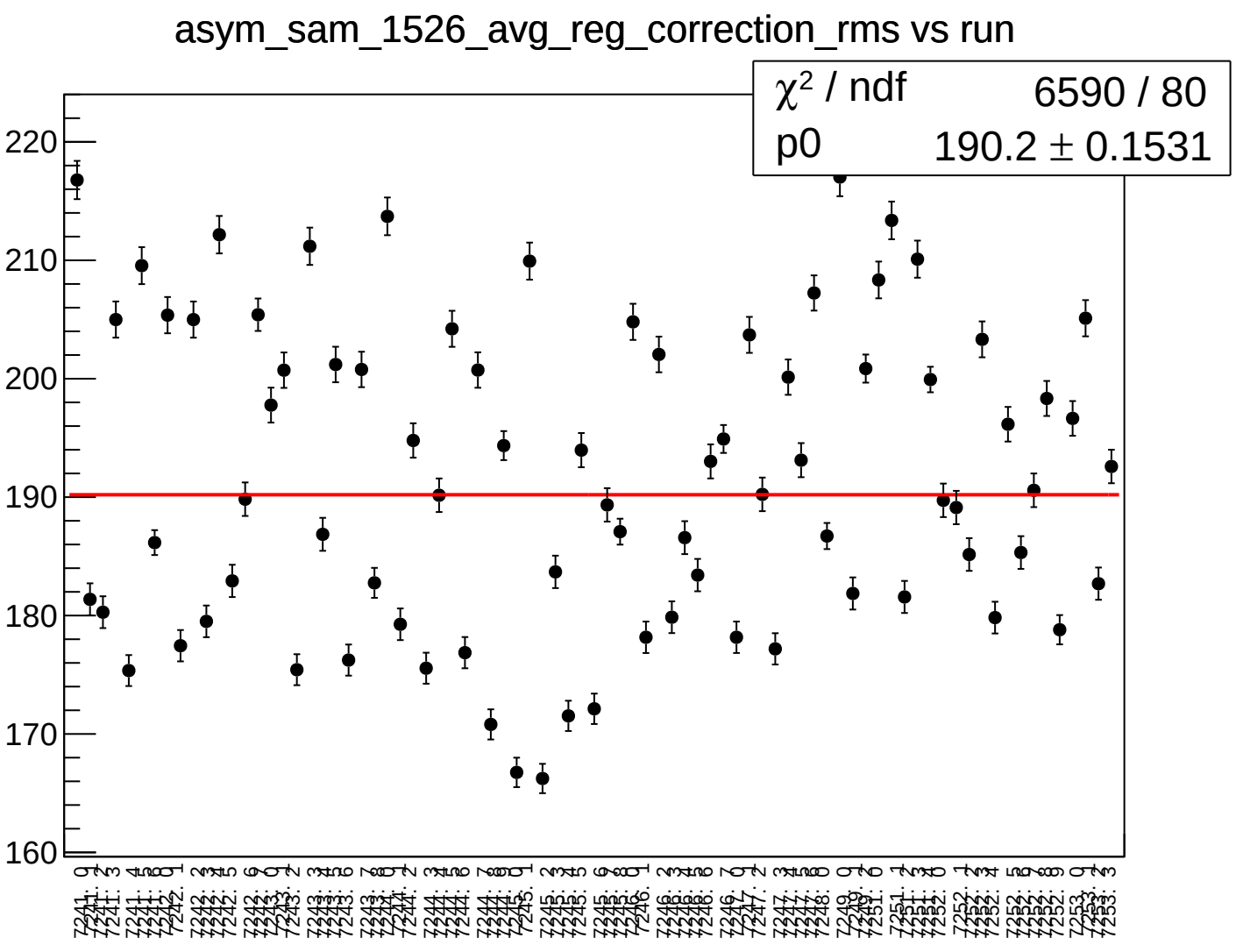

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 81.09 / 80
p0 −12.39 ± 47.27
pull
Entries 81
Mean −1371
Std Dev 0

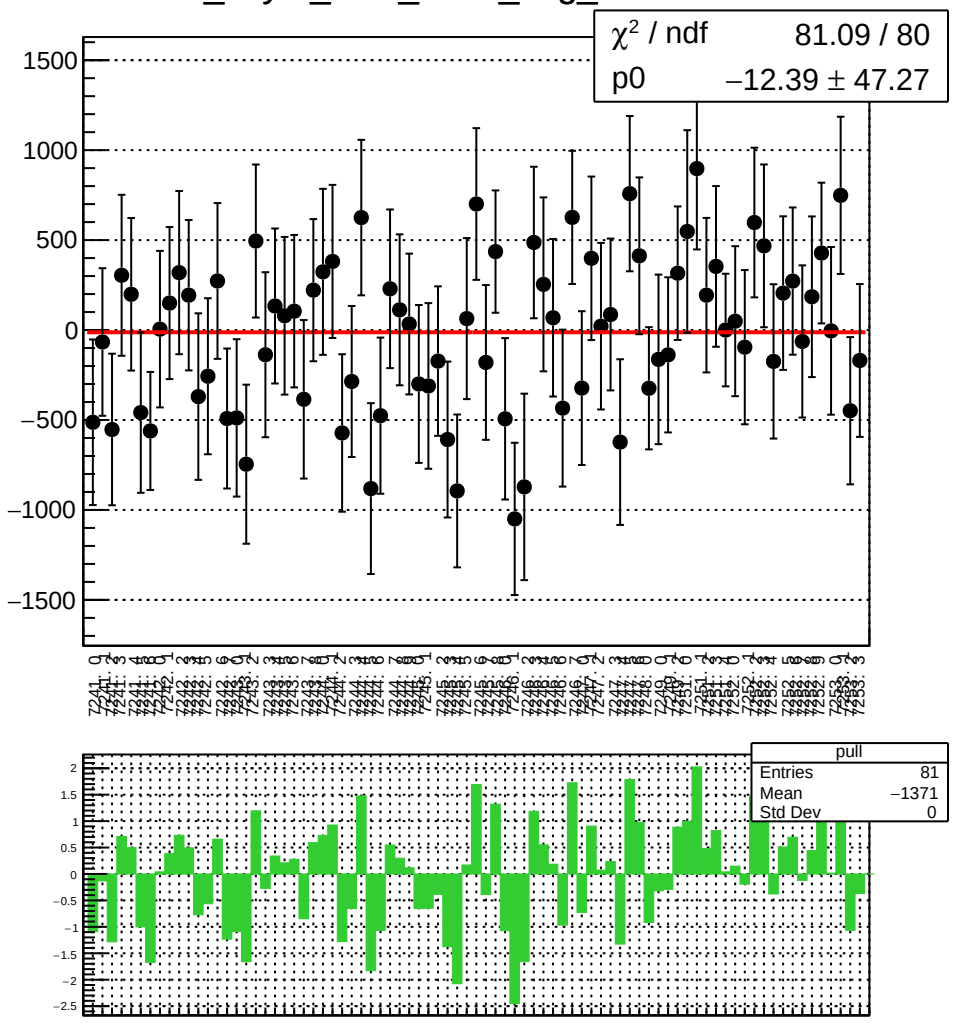

pull1D
Entries 81
Mean −0.004305
Std Dev 1.001

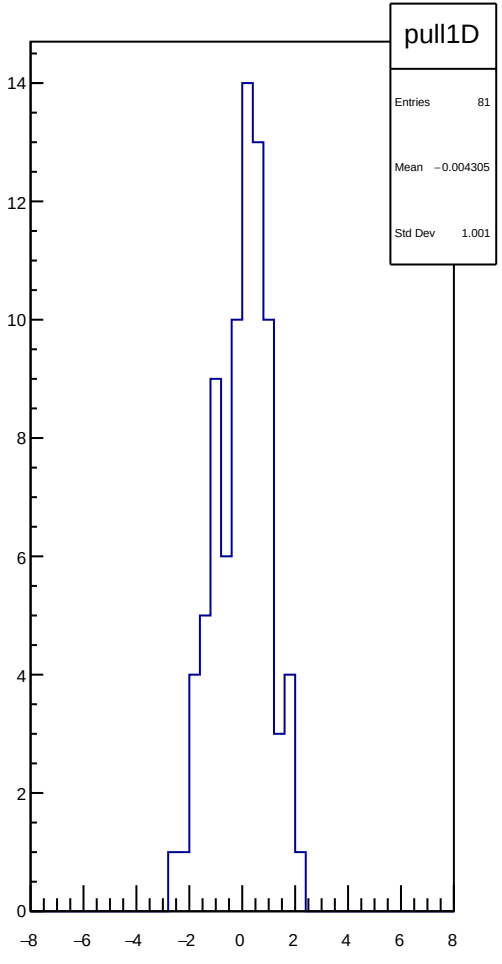

reg_asym_sam_1526_avg_rms vs run
χ² / ndf 3387 / 80
p0 41.56 ± 0.03343
54
52
50
48
46
44
42
40
38

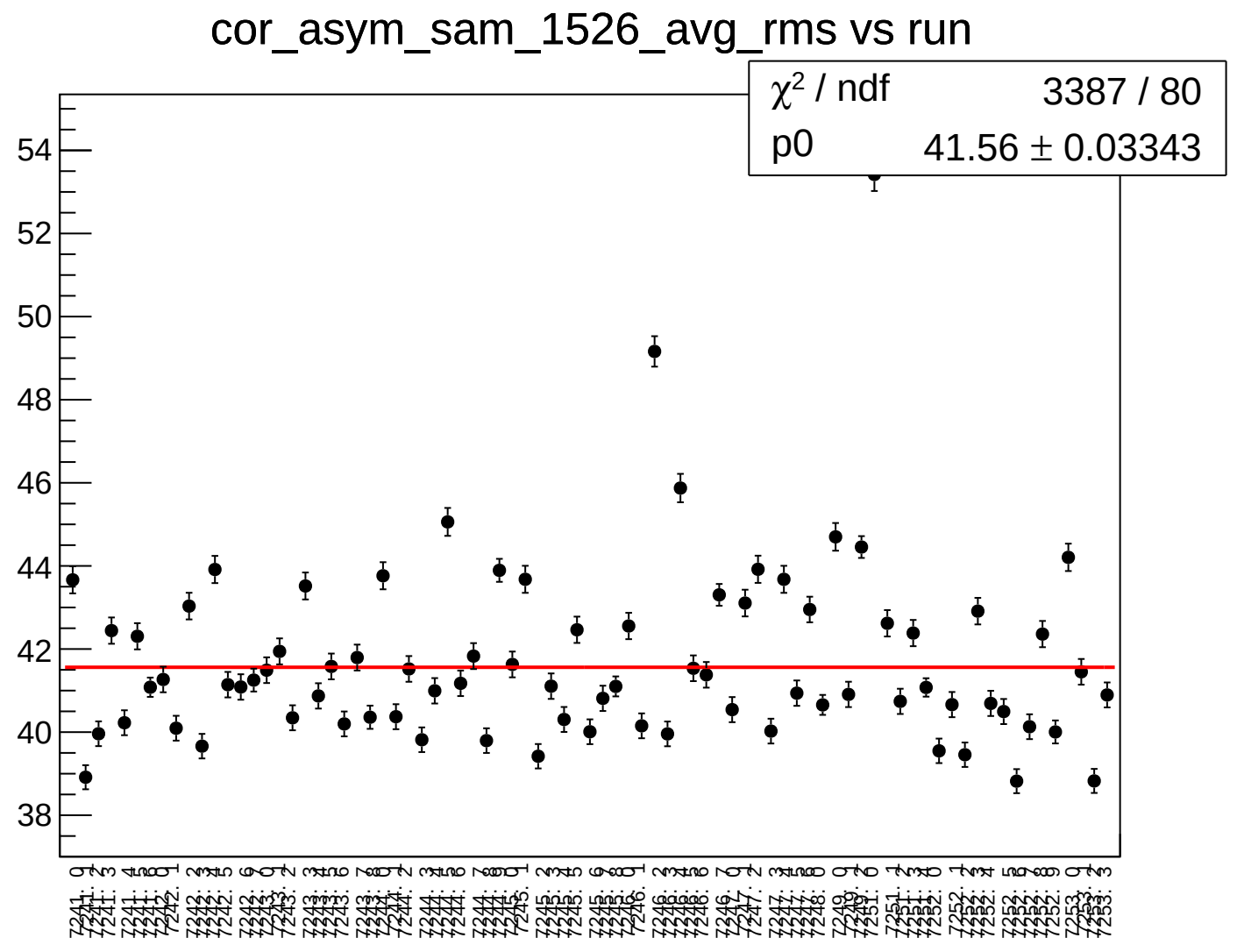

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 84.46 / 80
p0 −461.3 ± 216.6
pull
Entries 81
Mean 71.38
Std Dev 0

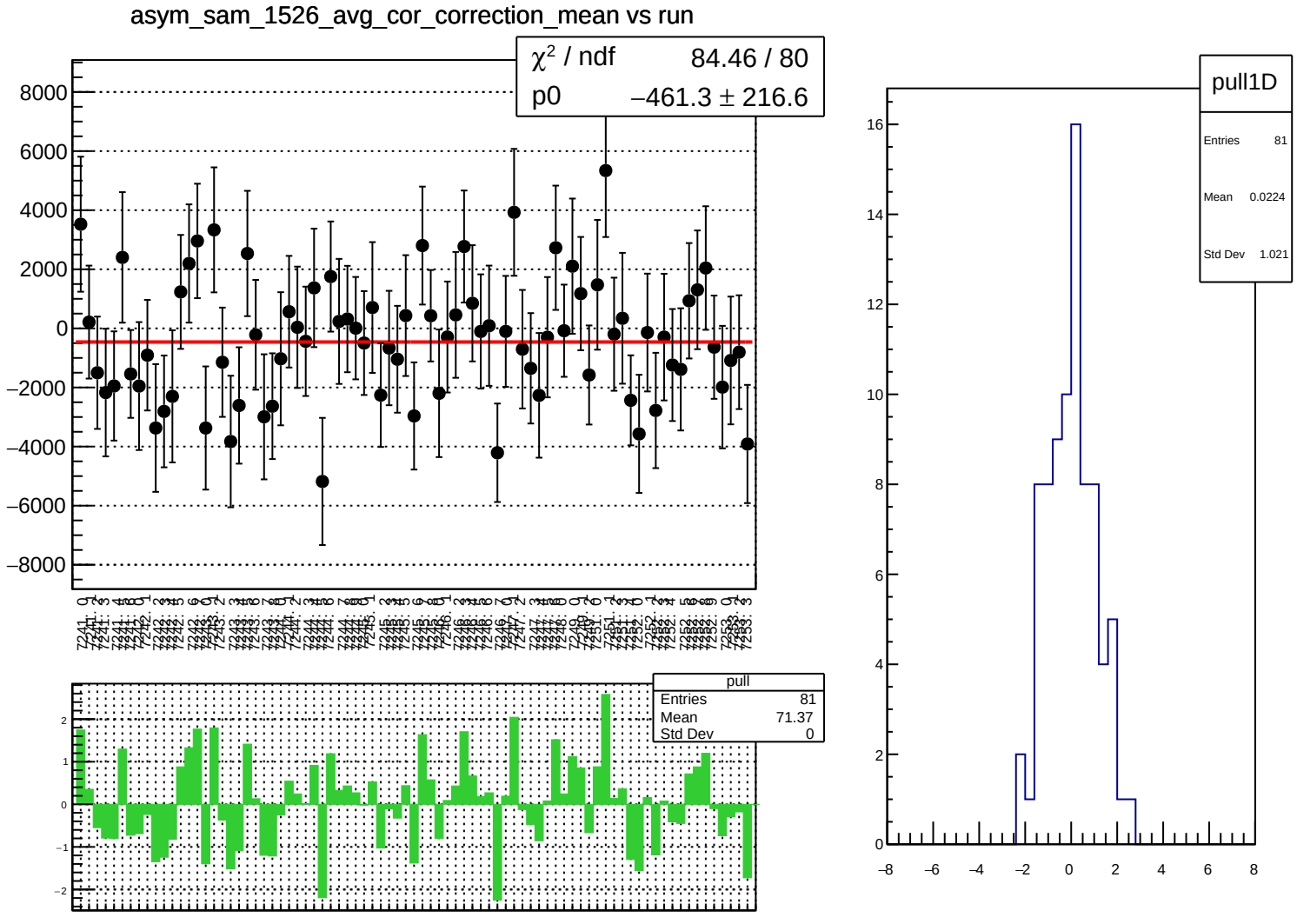

pull1D
Entries 81
Mean 0.0224
Std Dev 1.021

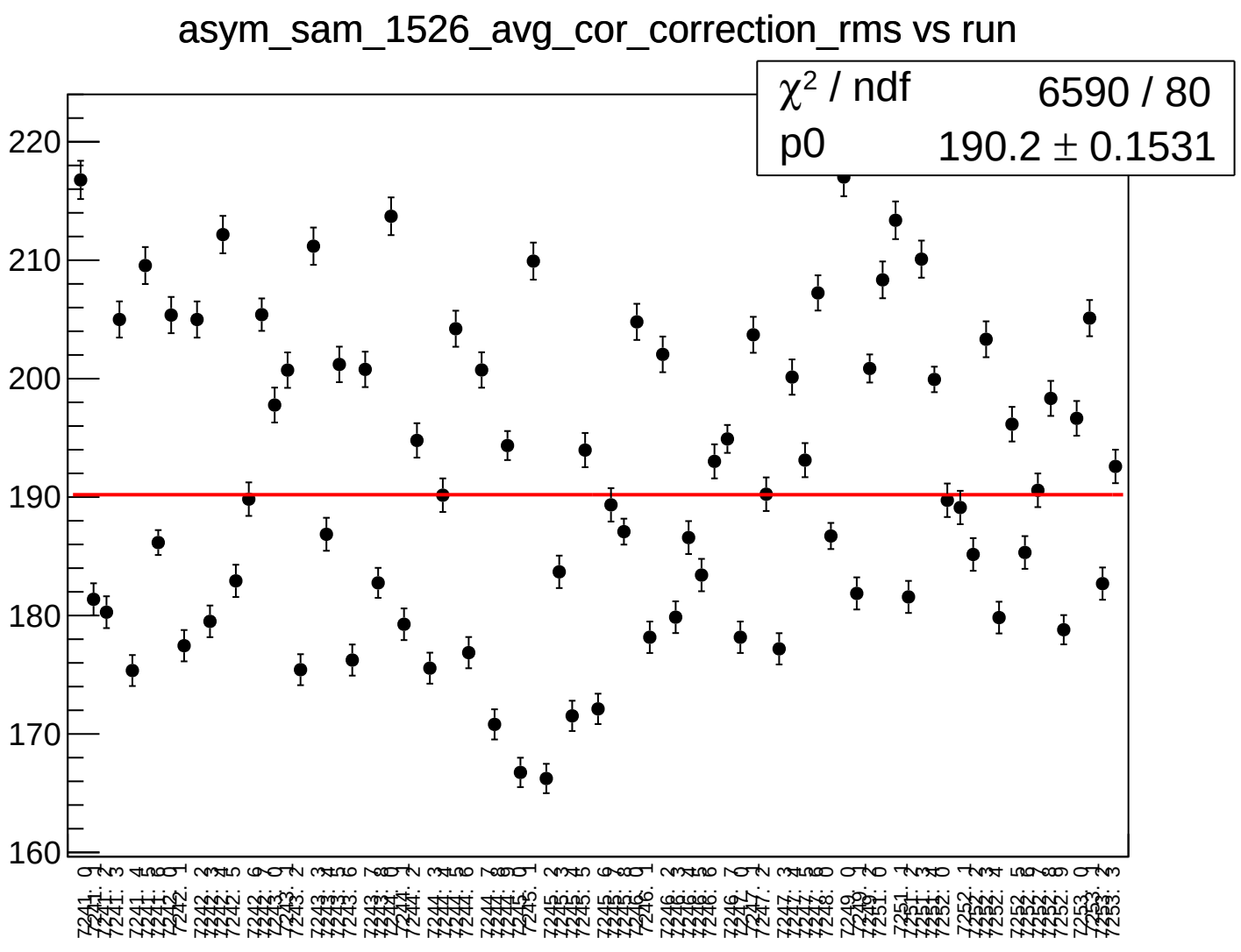

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 6590 / 80
p0 190.2 ± 0.1531
220
210
200
190
180
170
160

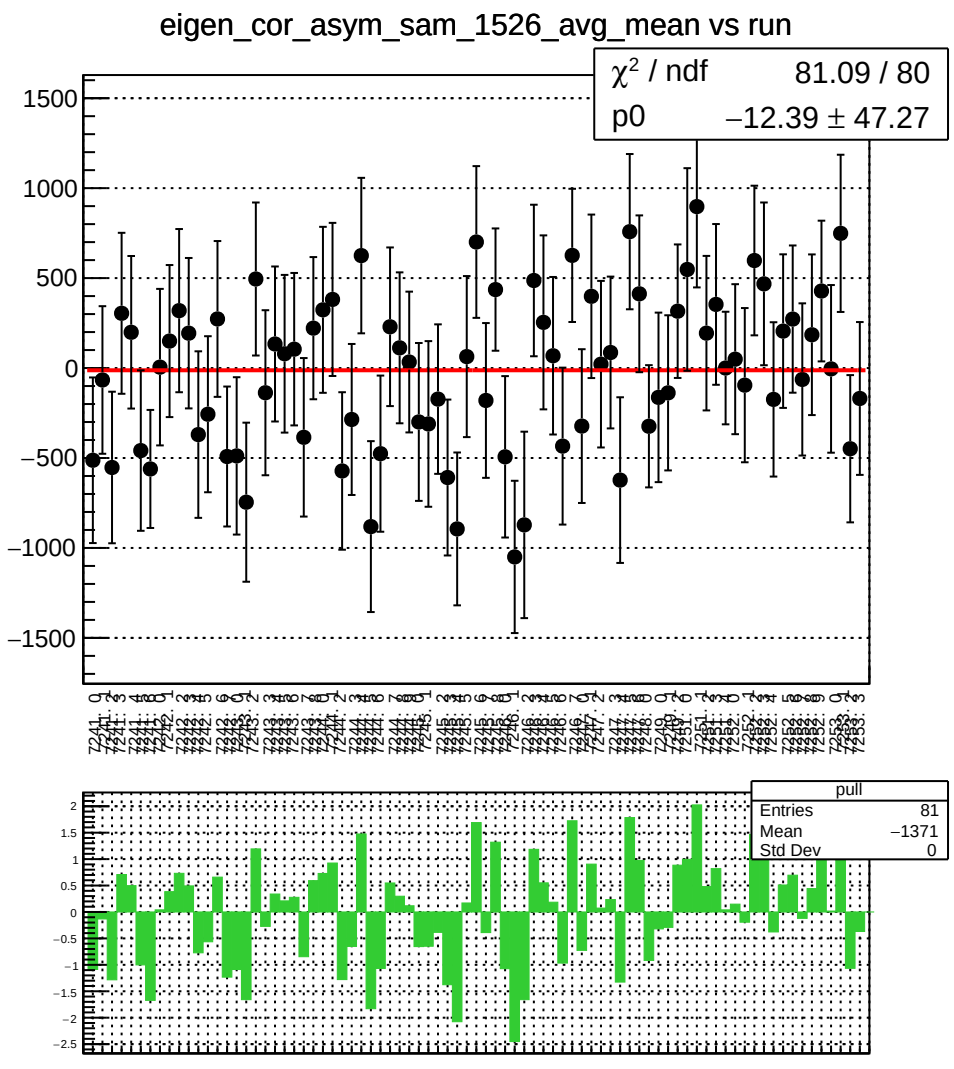

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 81.09 / 80
p0 −12.39 ± 47.27
pull
Entries 81
Mean −1371
Std Dev 0

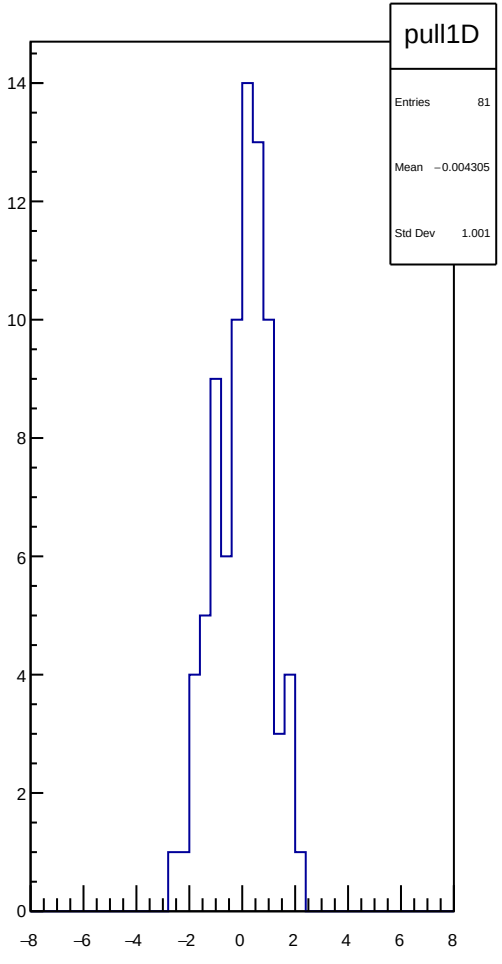

pull1D
Entries 81
Mean −0.004305
Std Dev 1.001

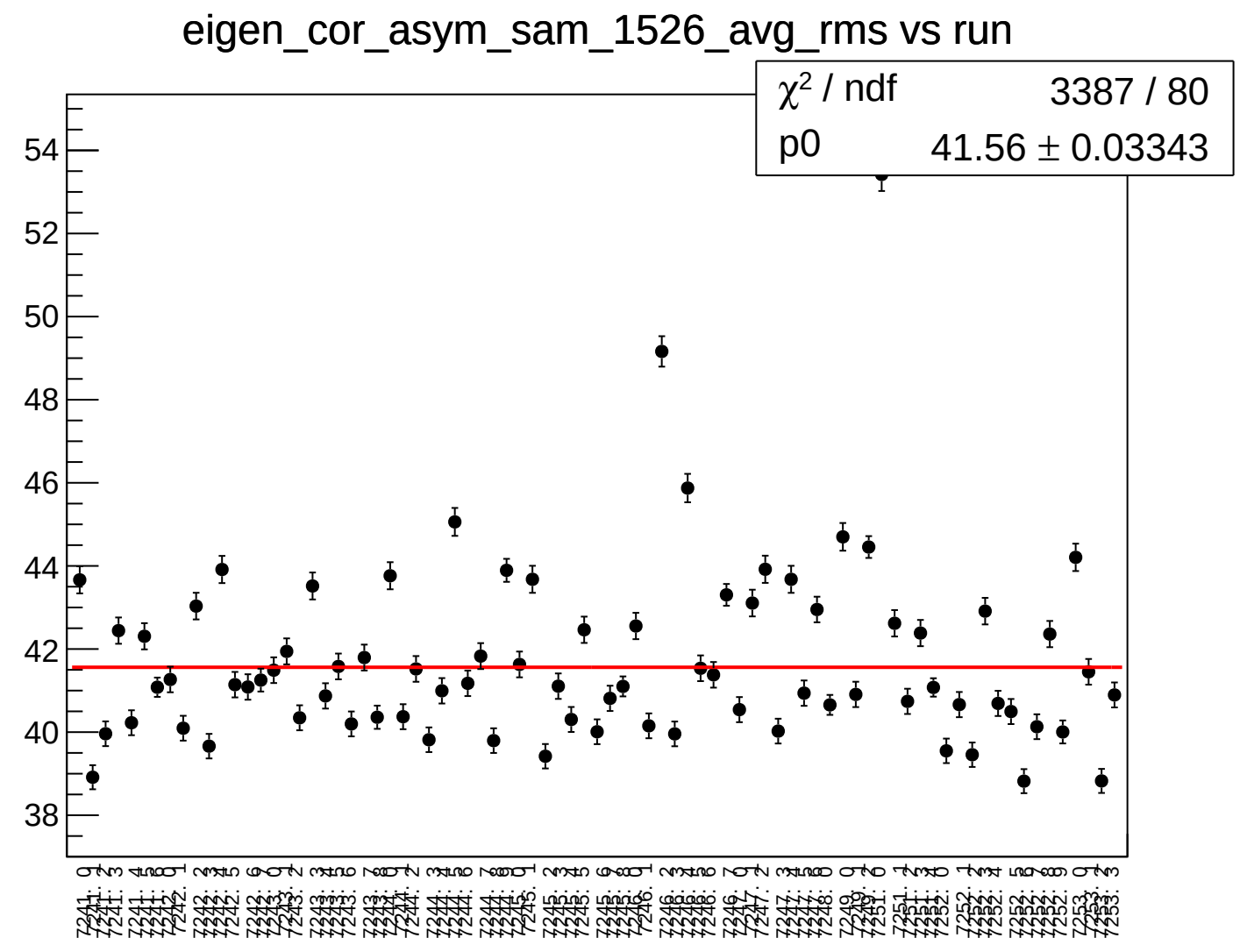

cor_asym_sam_1526_avg_rms vs run
χ² / ndf 3387 / 80
p0 41.56 ± 0.03343
54
52
50
48
46
44
42
40
38

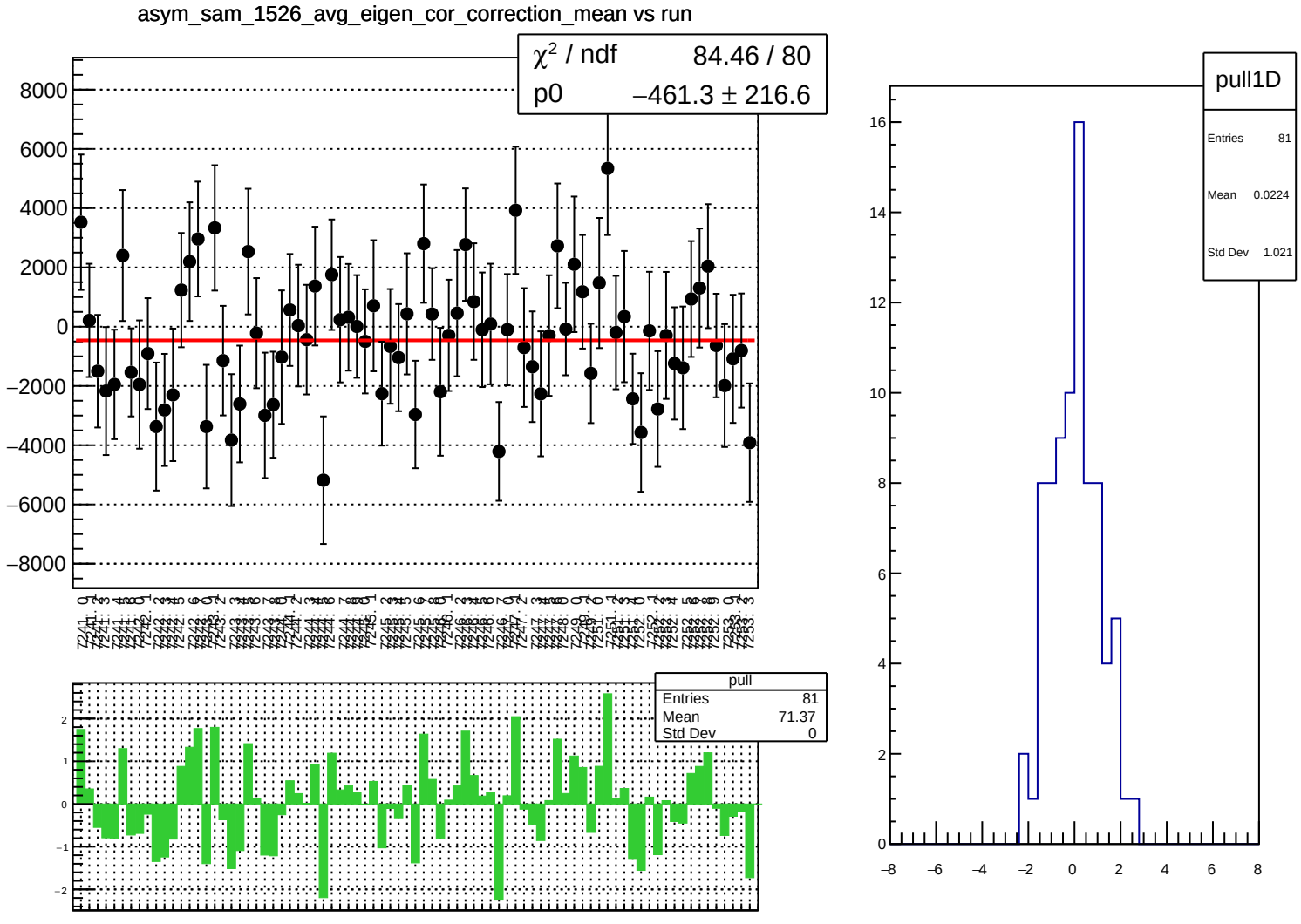

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 84.46 / 80
p0 −461.3 ± 216.6
pull
Entries 81
Mean 71.37
Std Dev 0
pull1D
Entries 81
Mean 0.0224
Std Dev 1.021

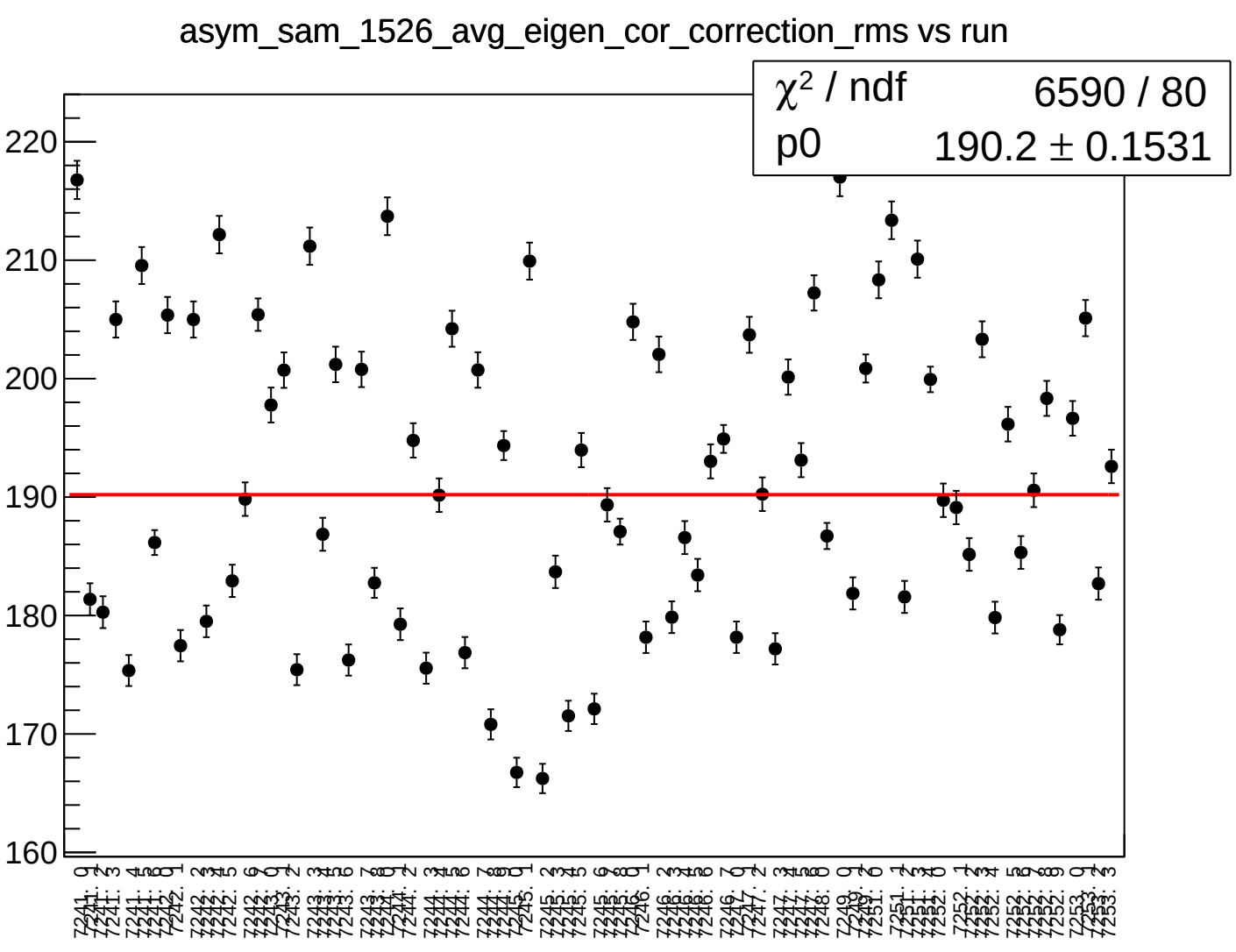

asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 6590 / 80
p0 190.2 ± 0.1531
220
210
200
190
180
170
160

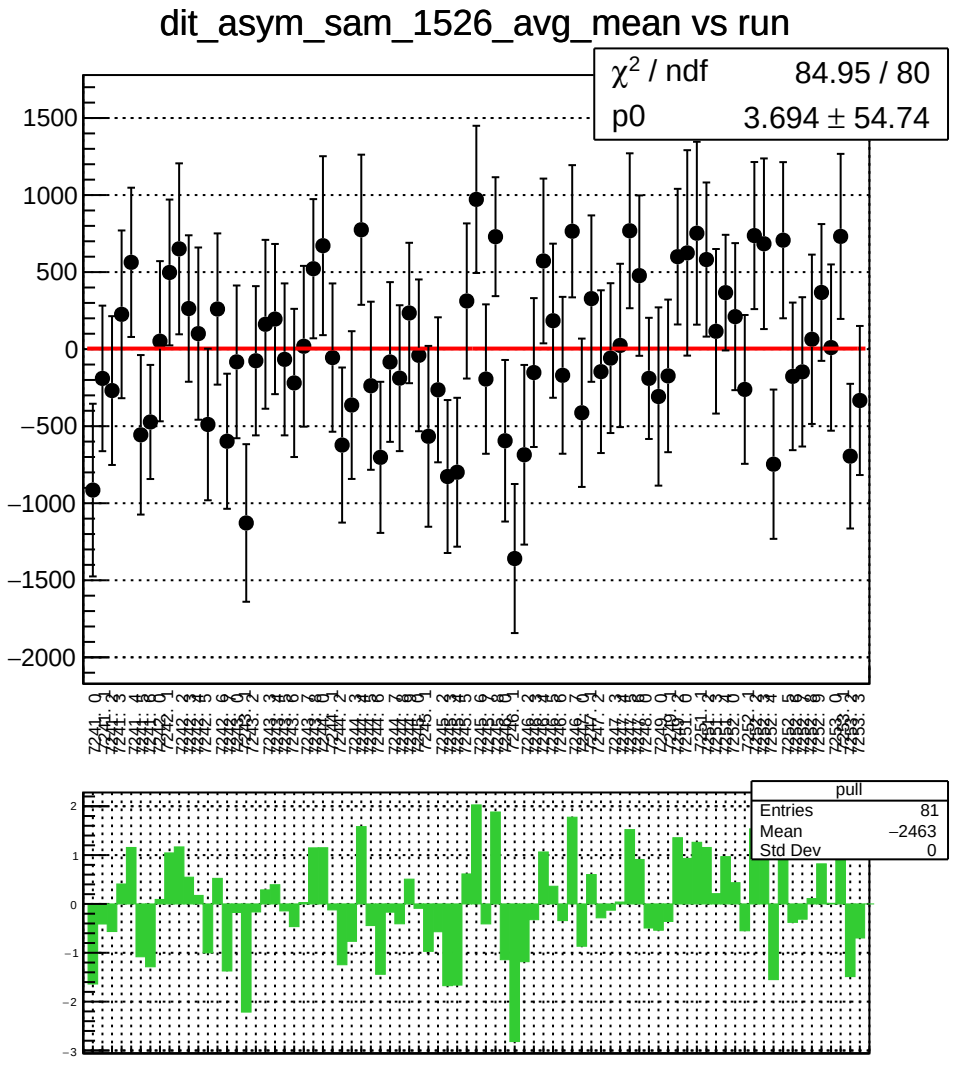

eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 81.09 / 80
p0 −12.39 ± 47.27
pull
Entries 81
Mean −1371
Std Dev 0

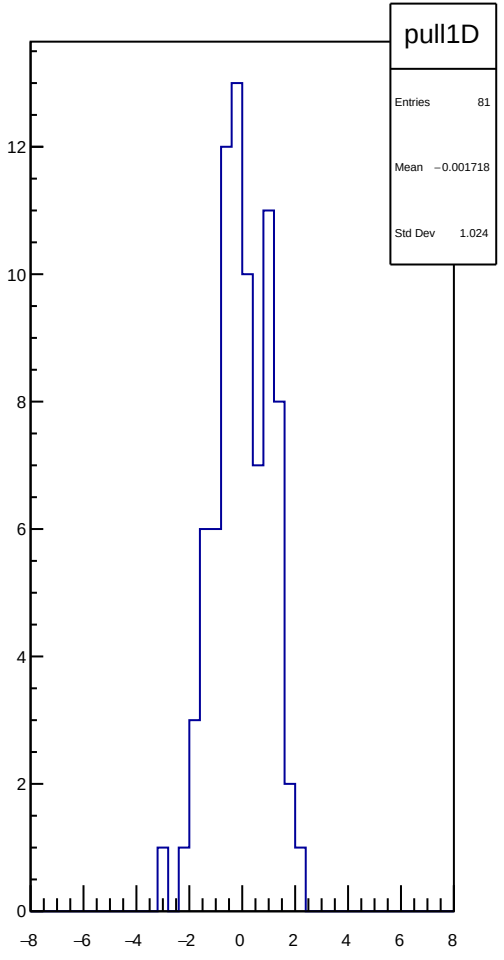

pull1D
Entries 81
Mean −0.004305
Std Dev 1.001

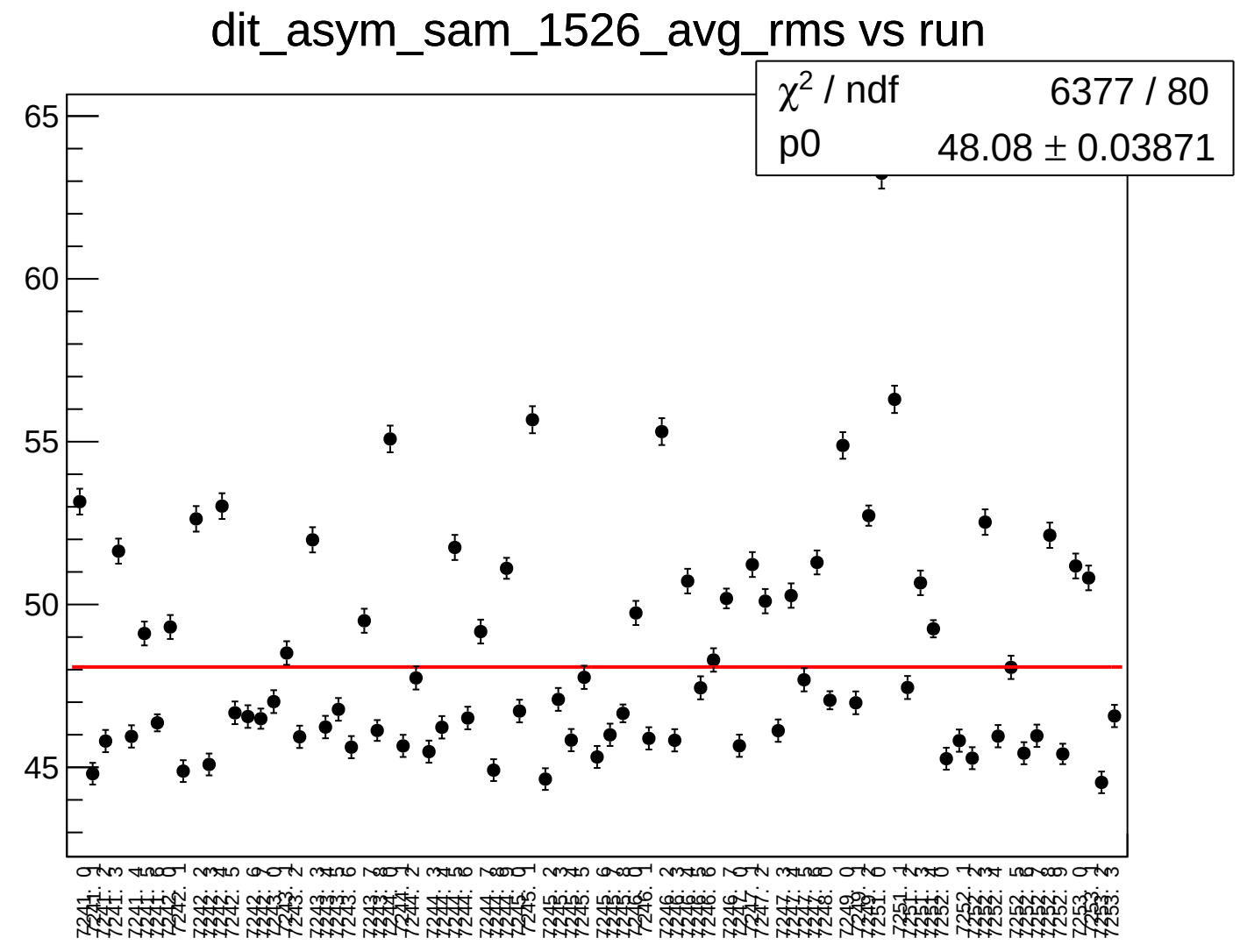

eigen_cor_asym_sam_1526_avg_rms vs run
χ² / ndf 3387 / 80
p0 41.56 ± 0.03343
54
52
50
48
46
44
42
40
38

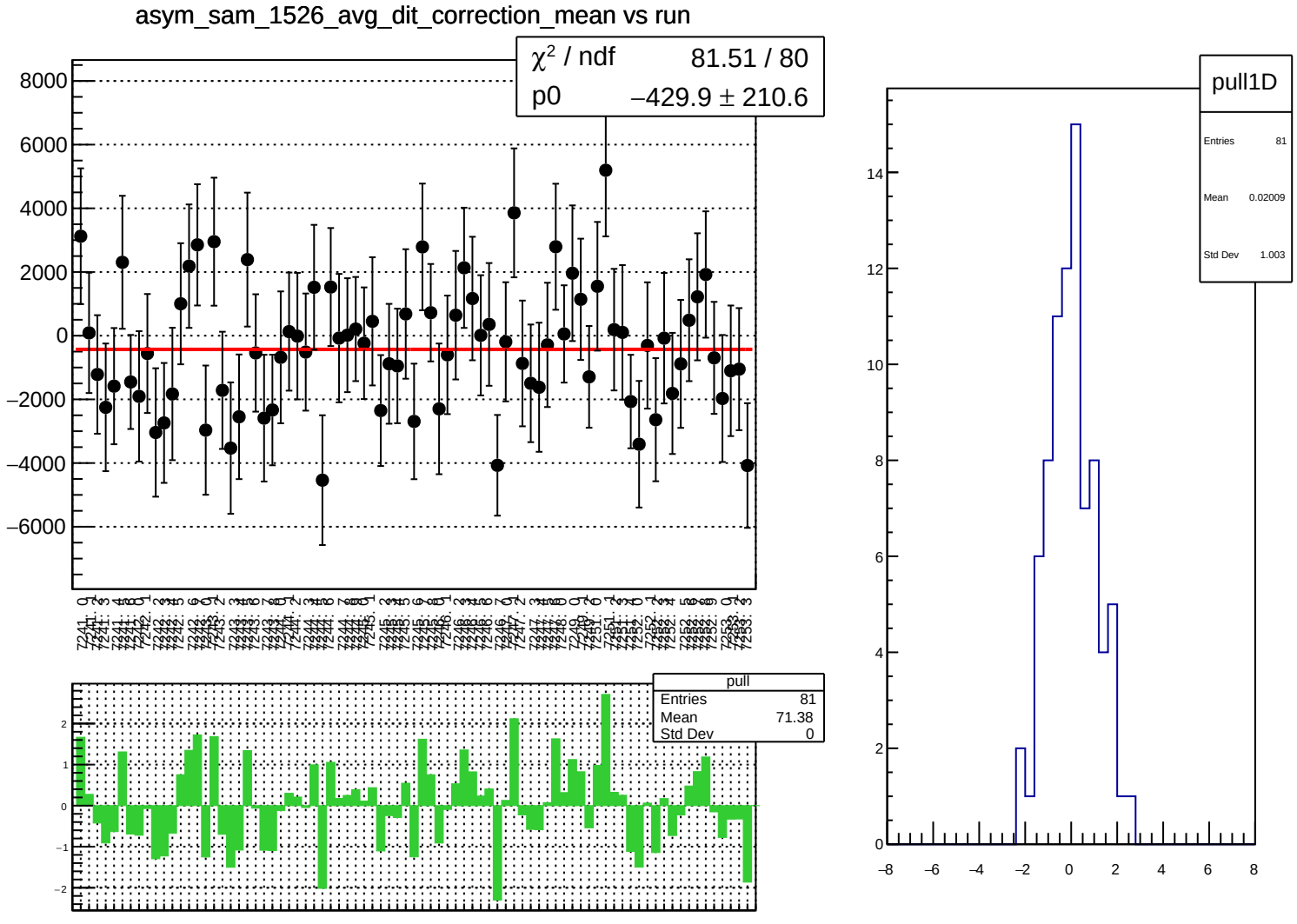

asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 84.46 / 80
p0 −461.3 ± 216.6
pull
Entries 81
Mean 71.37
Std Dev 0
pull1D
Entries 81
Mean 0.0224
Std Dev 1.021

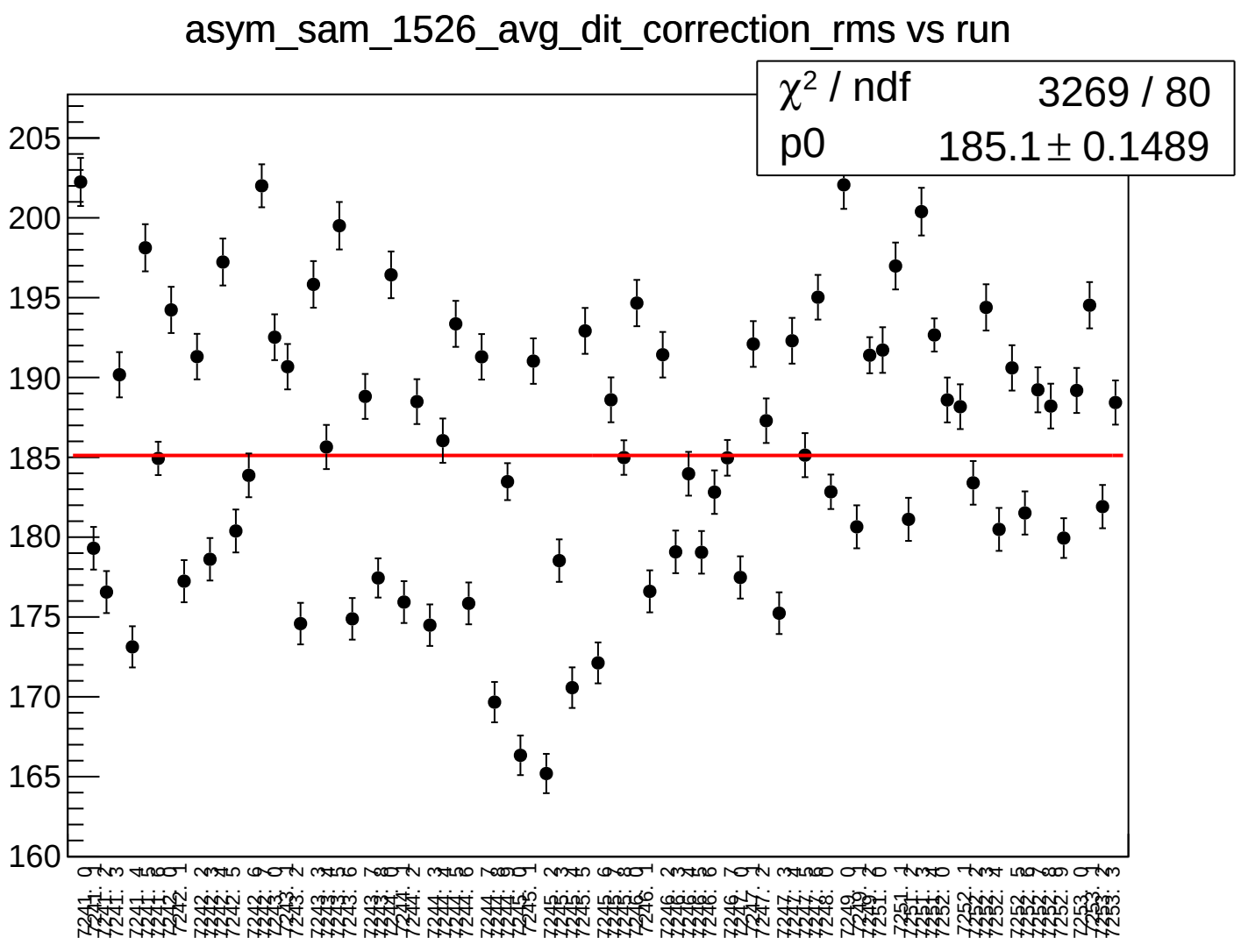

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 6590 / 80
p0 190.2 ± 0.1531
220
210
200
190
180
170
160

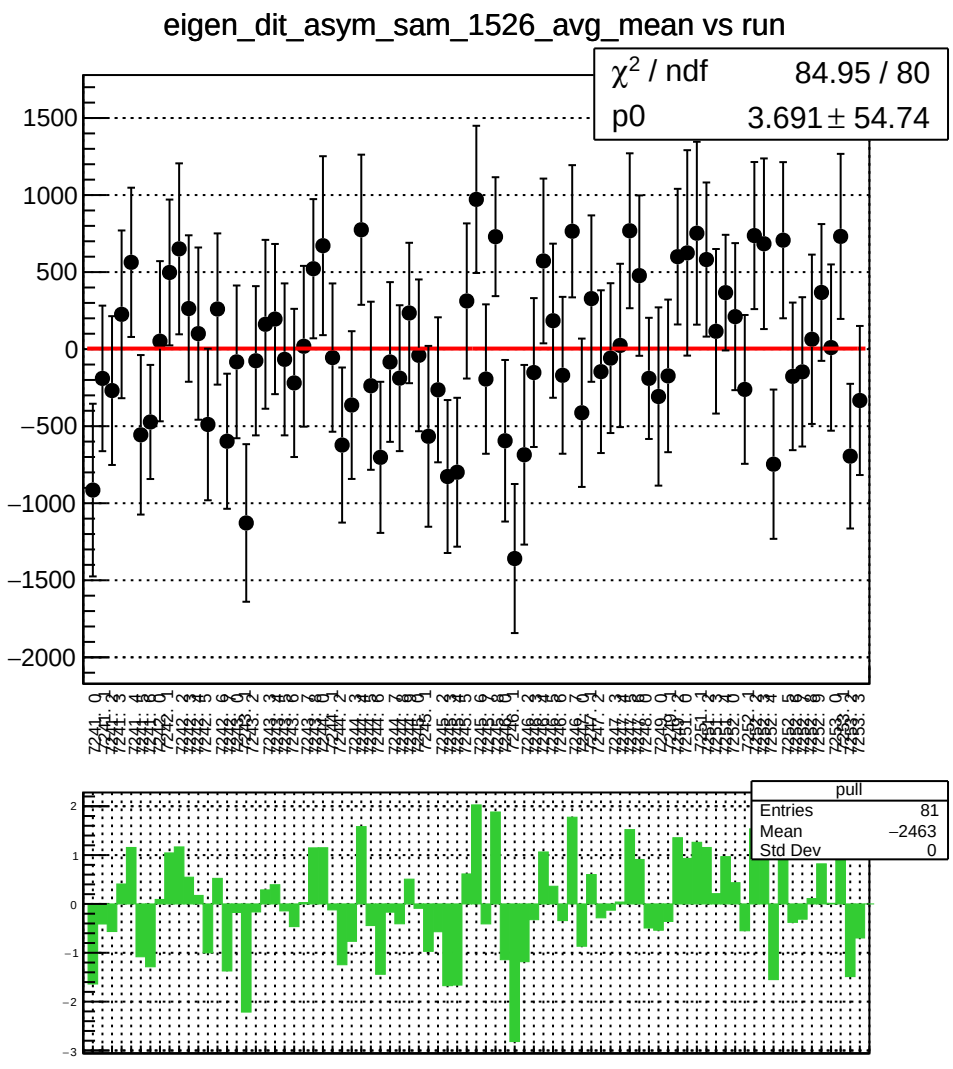

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 84.95 / 80
p0 3.694 ± 54.74
pull
Entries 81
Mean −2463
Std Dev 0

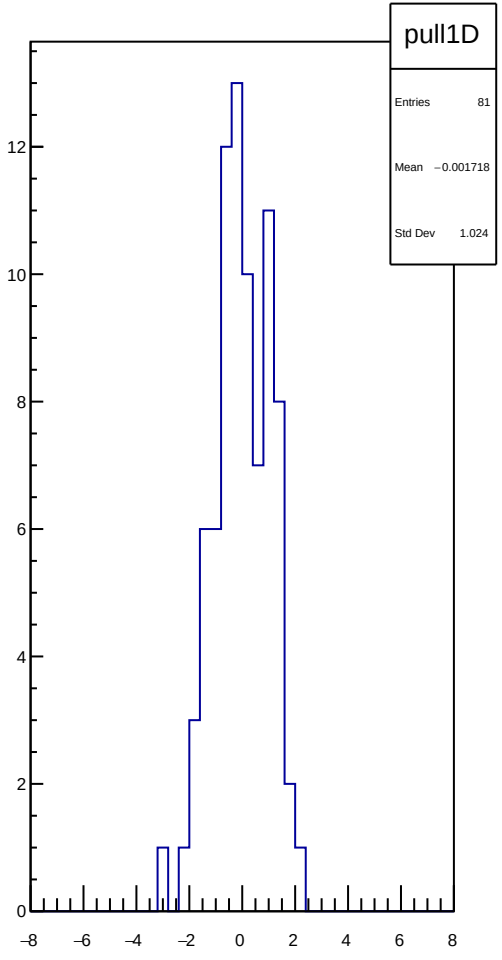

pull1D
Entries 81
Mean −0.001718
Std Dev 1.024

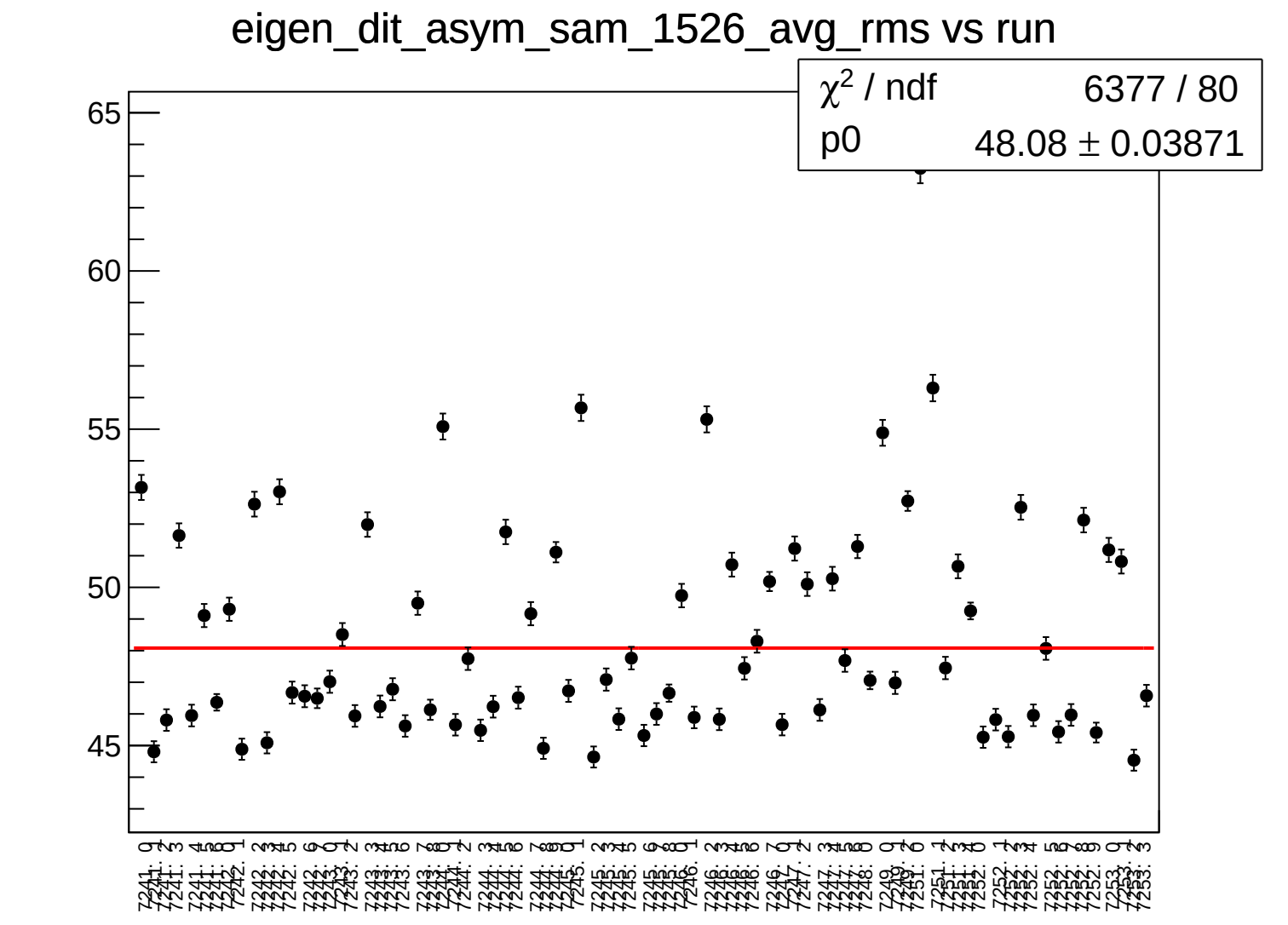

dit_asym_sam_1526_avg_rms vs run
χ^2 / ndf 6377 / 80
p0 48.08 ± 0.03871
65
60
55
50
45

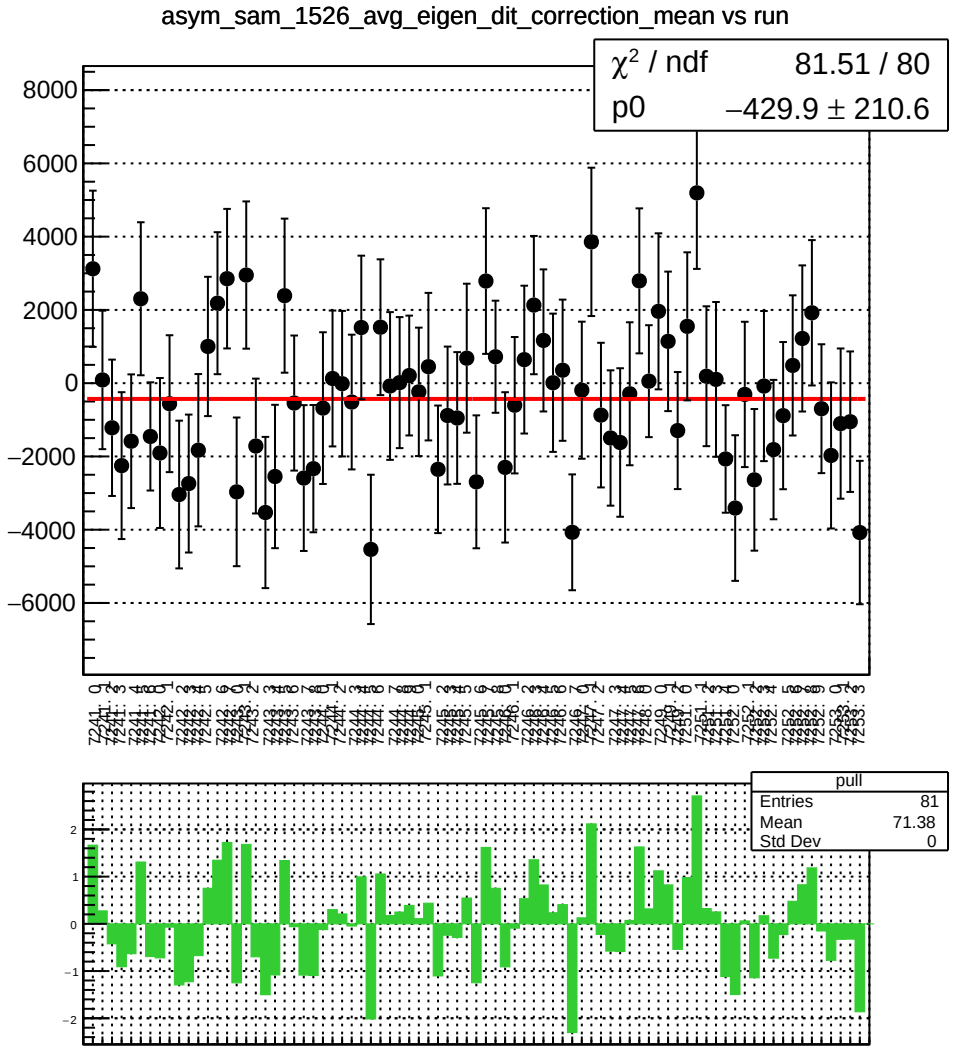

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 81.51 / 80
p0 −429.9 ± 210.6
pull
Entries 81
Mean 71.38
Std Dev 0
pull1D
Entries 81
Mean 0.02009
Std Dev 1.003

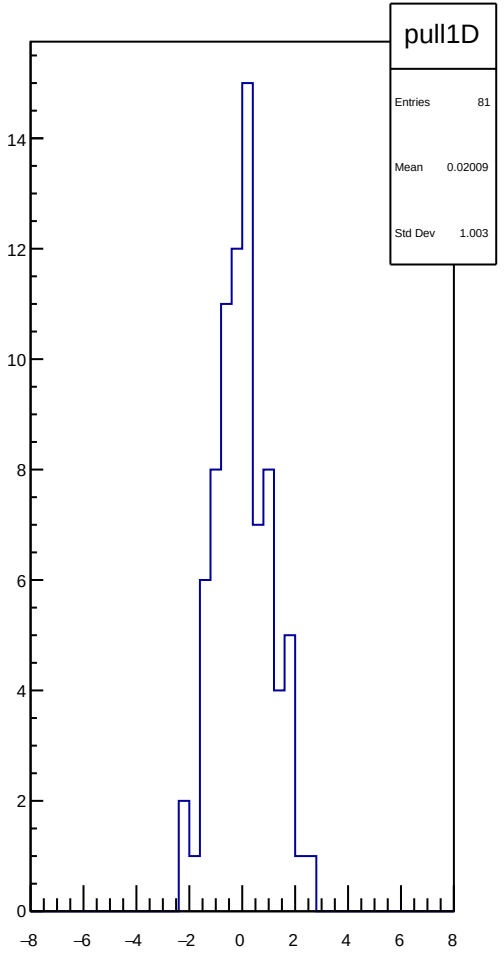

asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 3269 / 80
p0 185.1 ± 0.1489
205
200
195
190
185
180
175
170
165
160

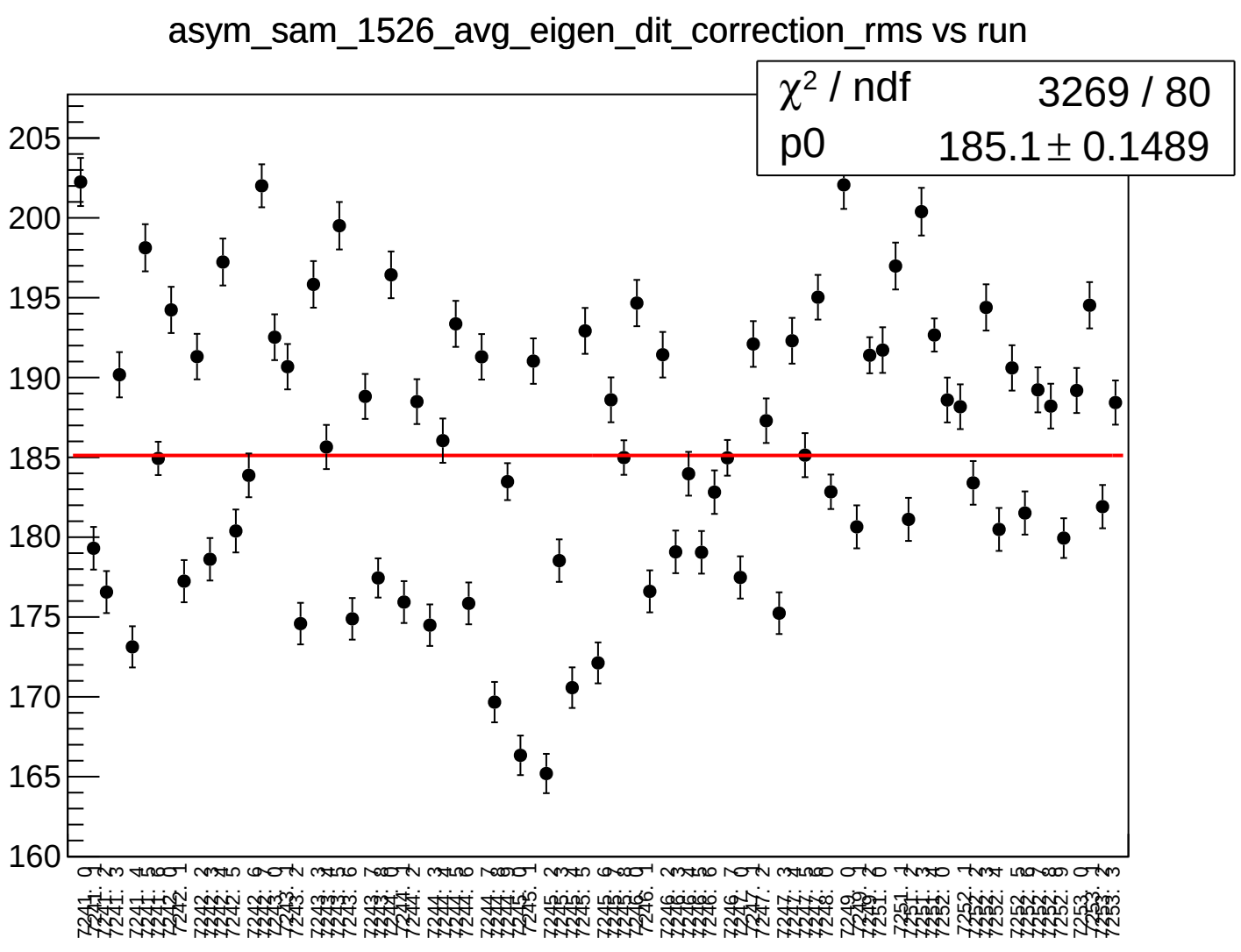

eigen_dit_asym_sam_1526_avg_mean vs run
χ² / ndf 84.95 / 80
p0 3.691 ± 54.74
pull
Entries 81
Mean −2463
Std Dev 0

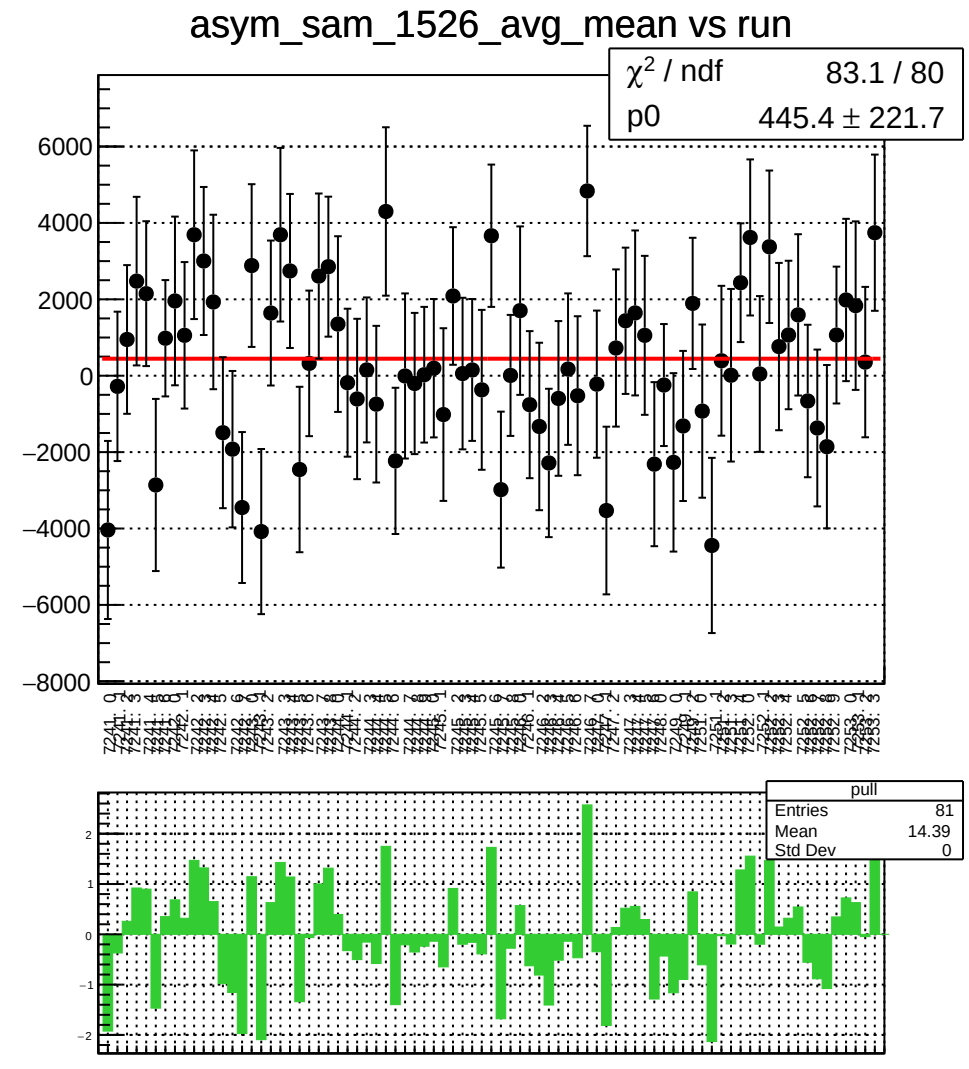

pull1D
Entries 81
Mean −0.001718
Std Dev 1.024

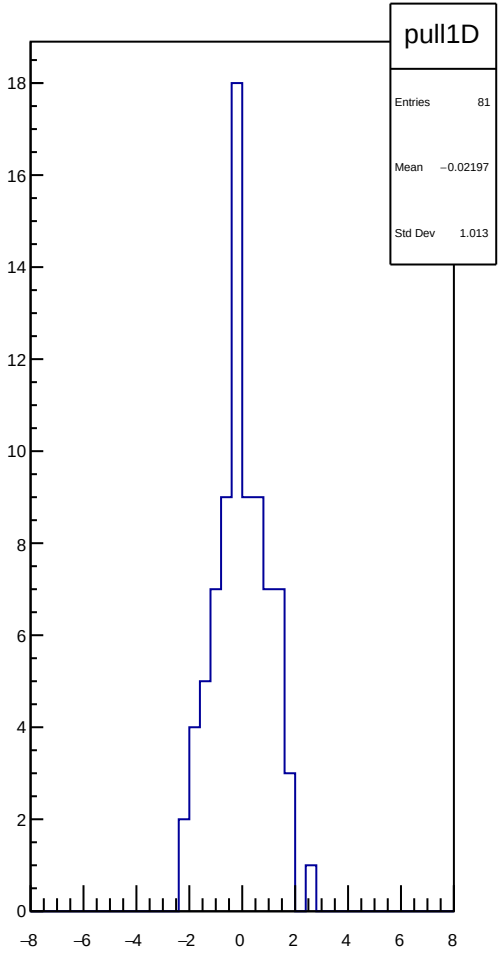

eigen_dit_asym_sam_1526_avg_rms vs run
χ² / ndf 6377 / 80
p0 48.08 ± 0.03871
65
60
55
50
45

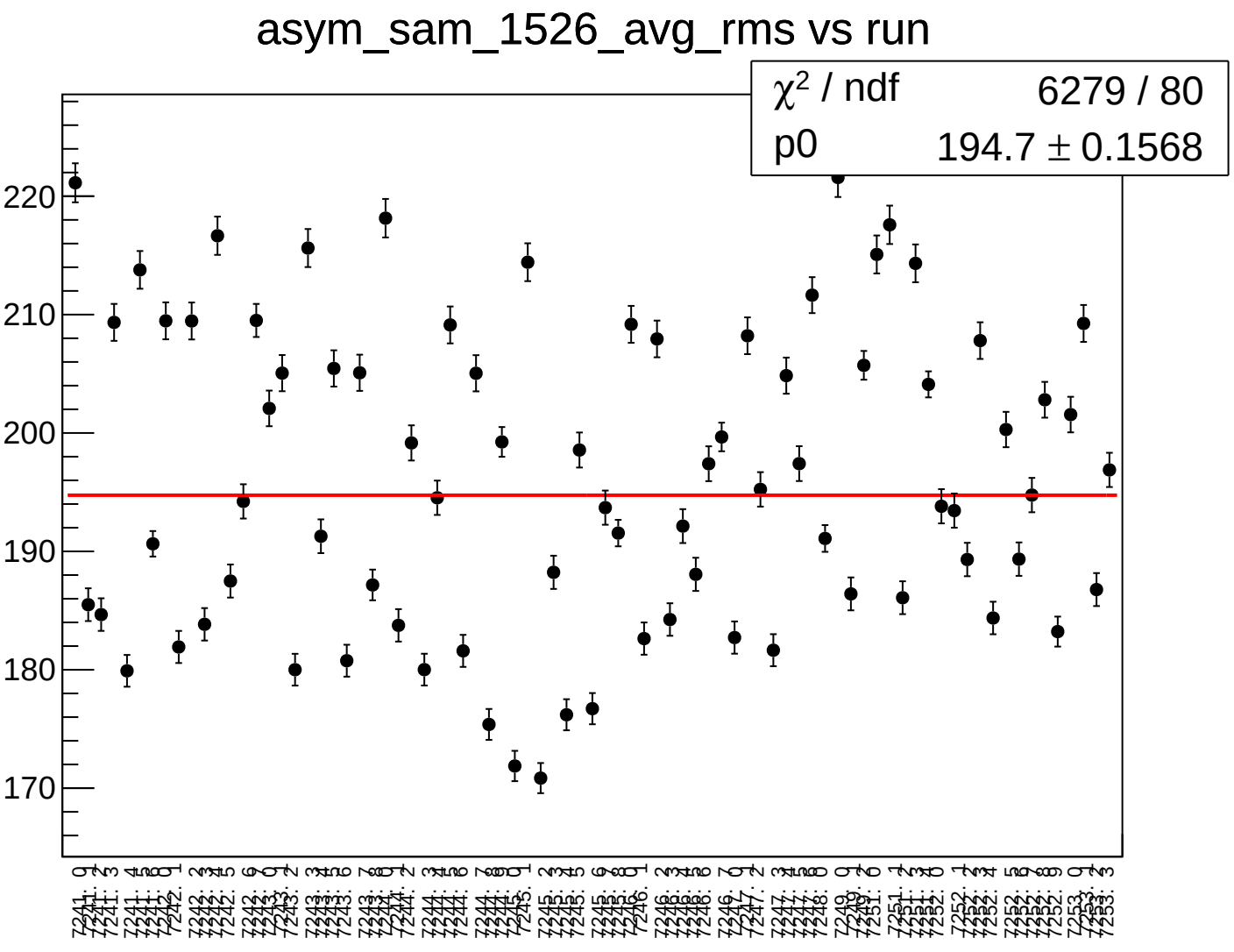

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 81.51 / 80
p0 −429.9 ± 210.6
pull
Entries 81
Mean 71.38
Std Dev 0

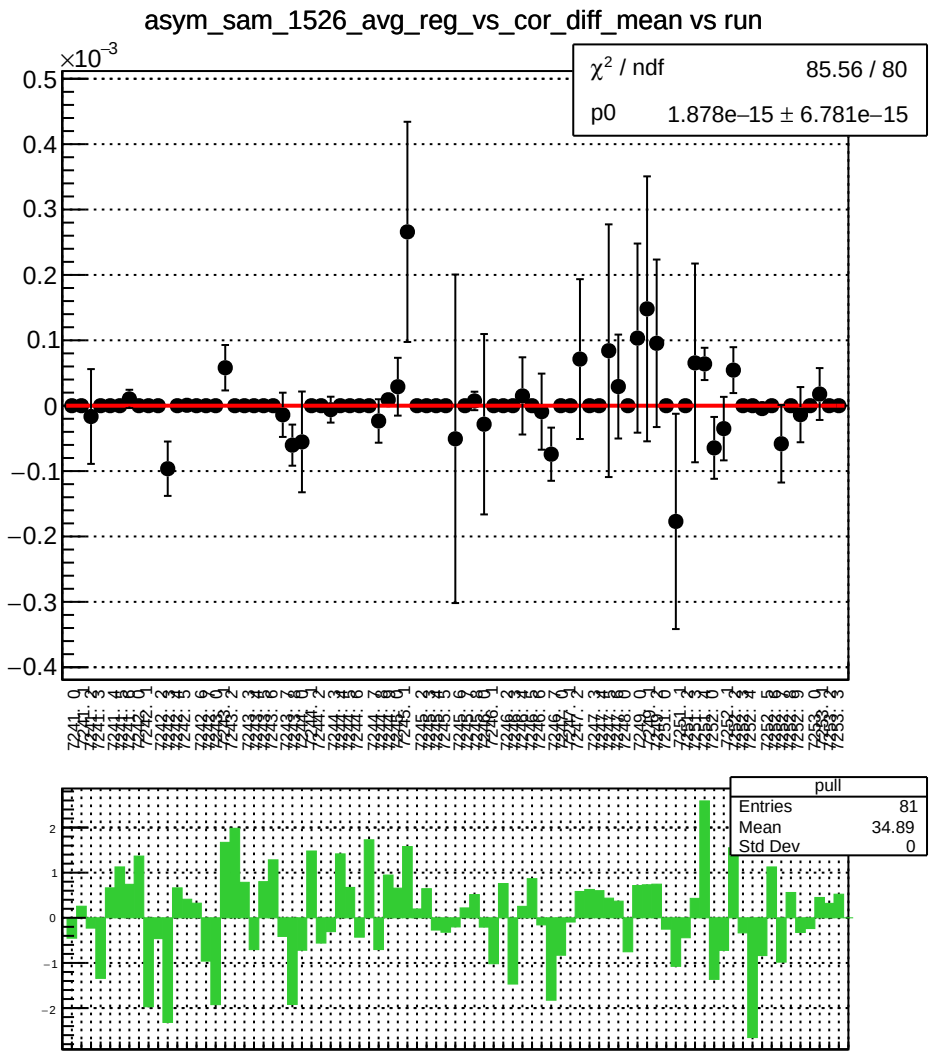

pull1D
Entries 81
Mean 0.02009
Std Dev 1.003

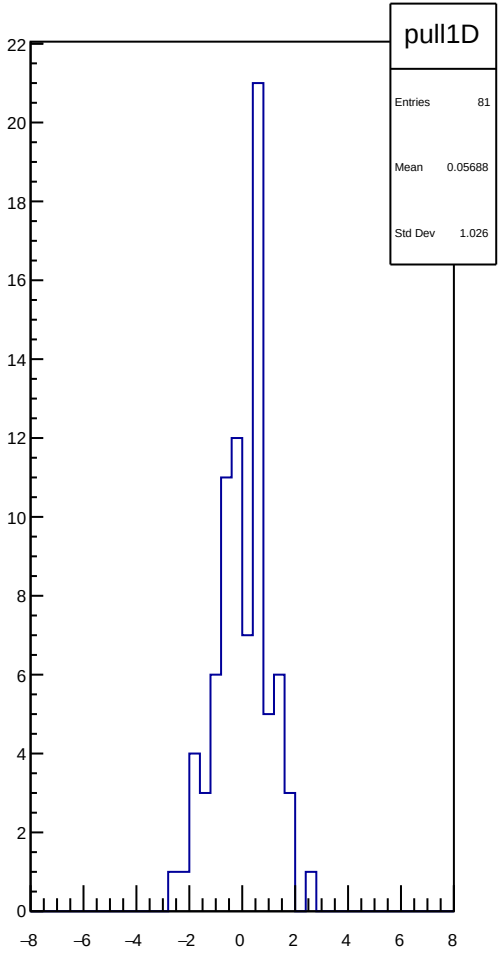

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 3269 / 80
p0 185.1 ± 0.1489
205
200
195
190
185
180
175
170
165
160

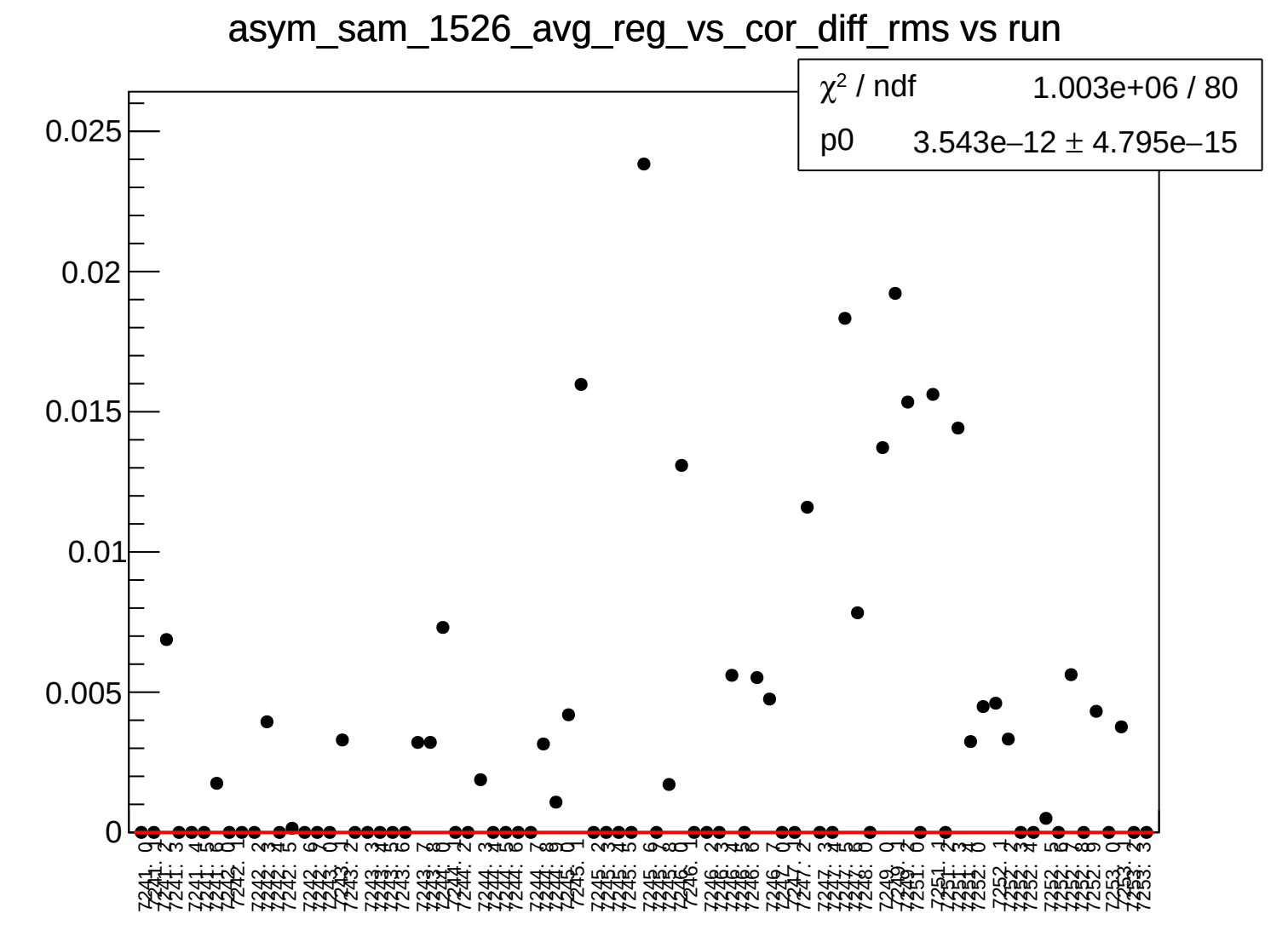

asym_sam_1526_avg_mean vs run
χ² / ndf 83.1 / 80
p0 445.4 ± 221.7
pull
Entries 81
Mean 14.39
Std Dev 0

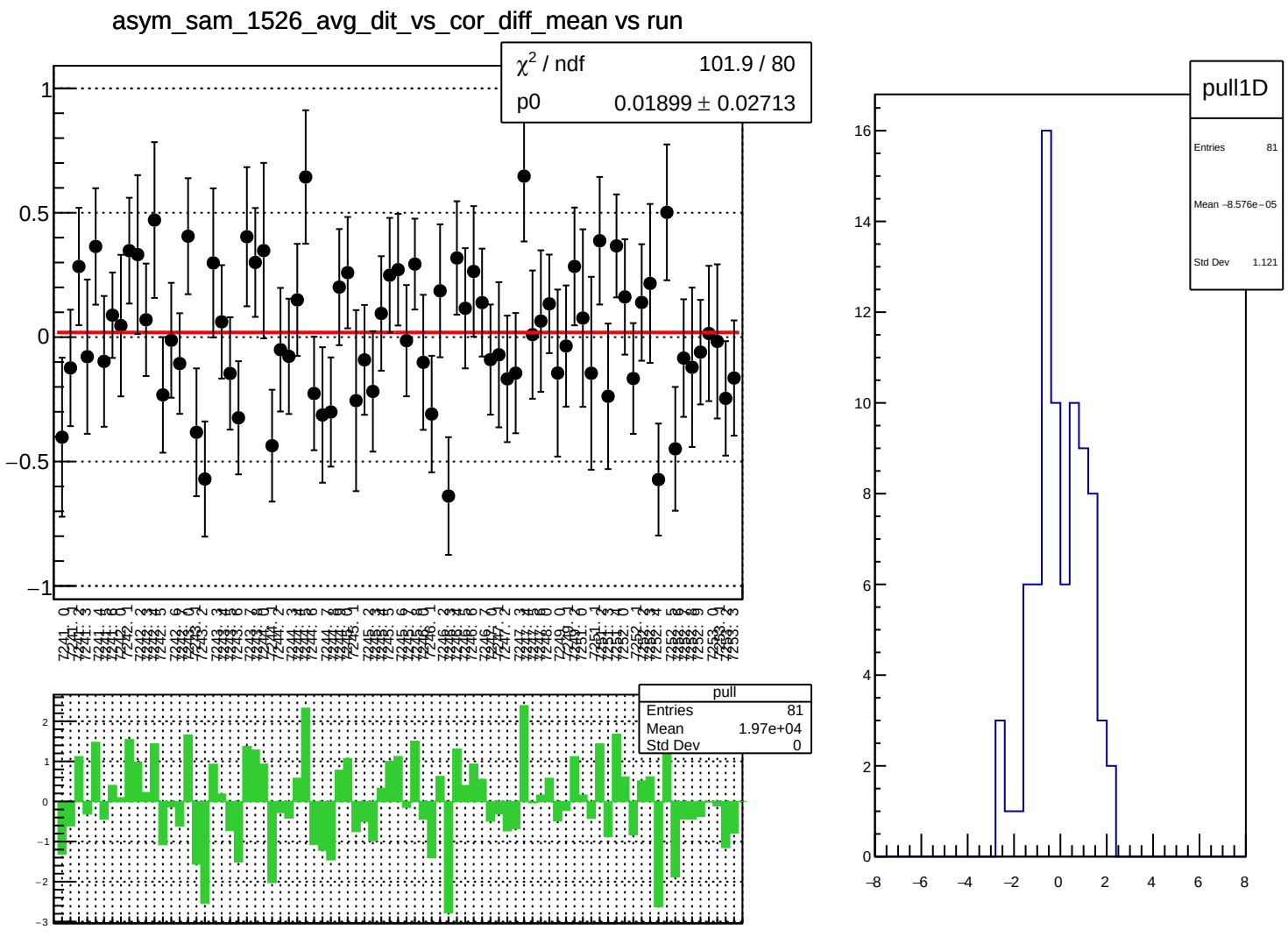

pull1D
Entries 81
Mean −0.02197
Std Dev 1.013

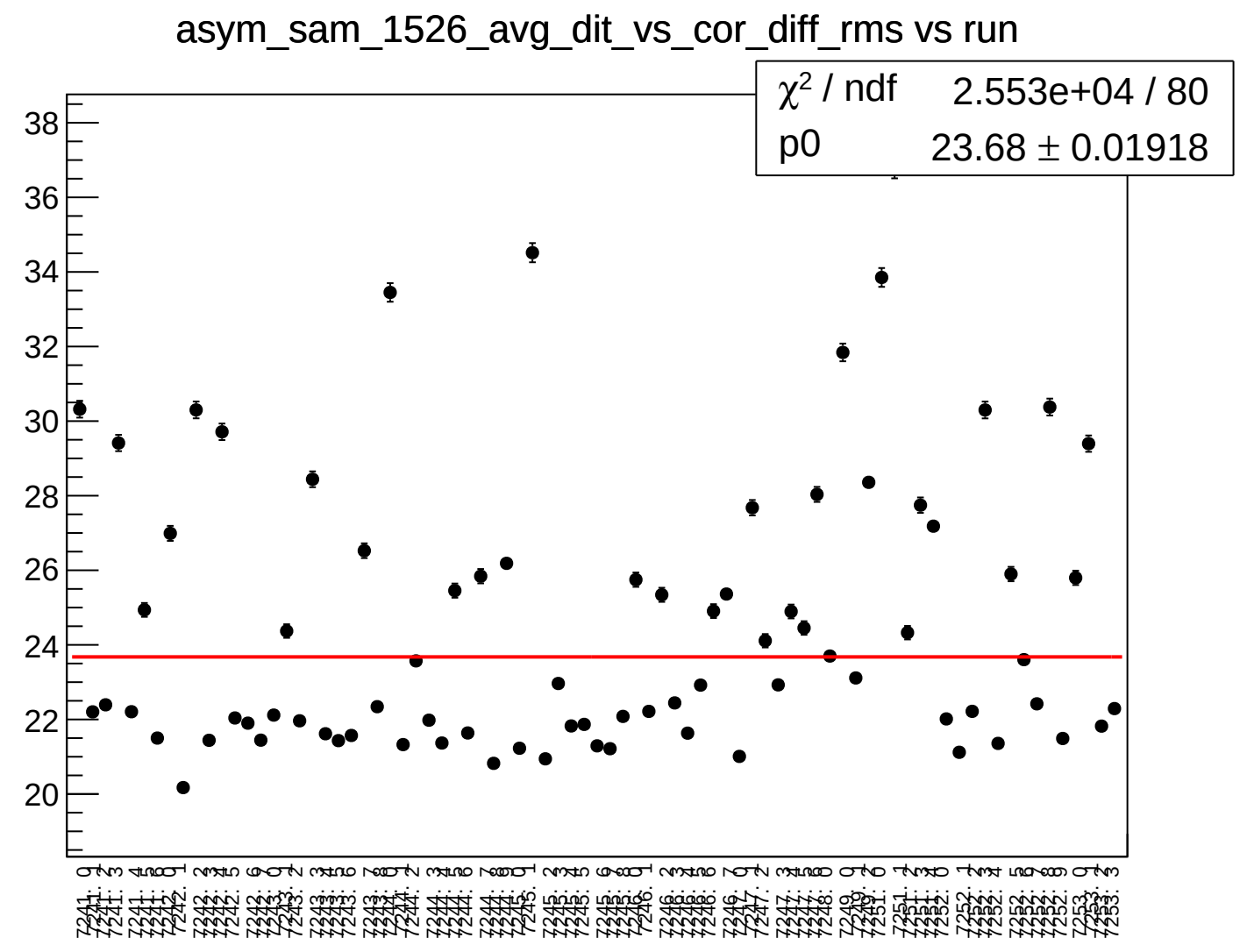

asym_sam_1526_avg_rms vs run
χ² / ndf 6279 / 80
p0 194.7 ± 0.1568
220
210
200
190
180
170

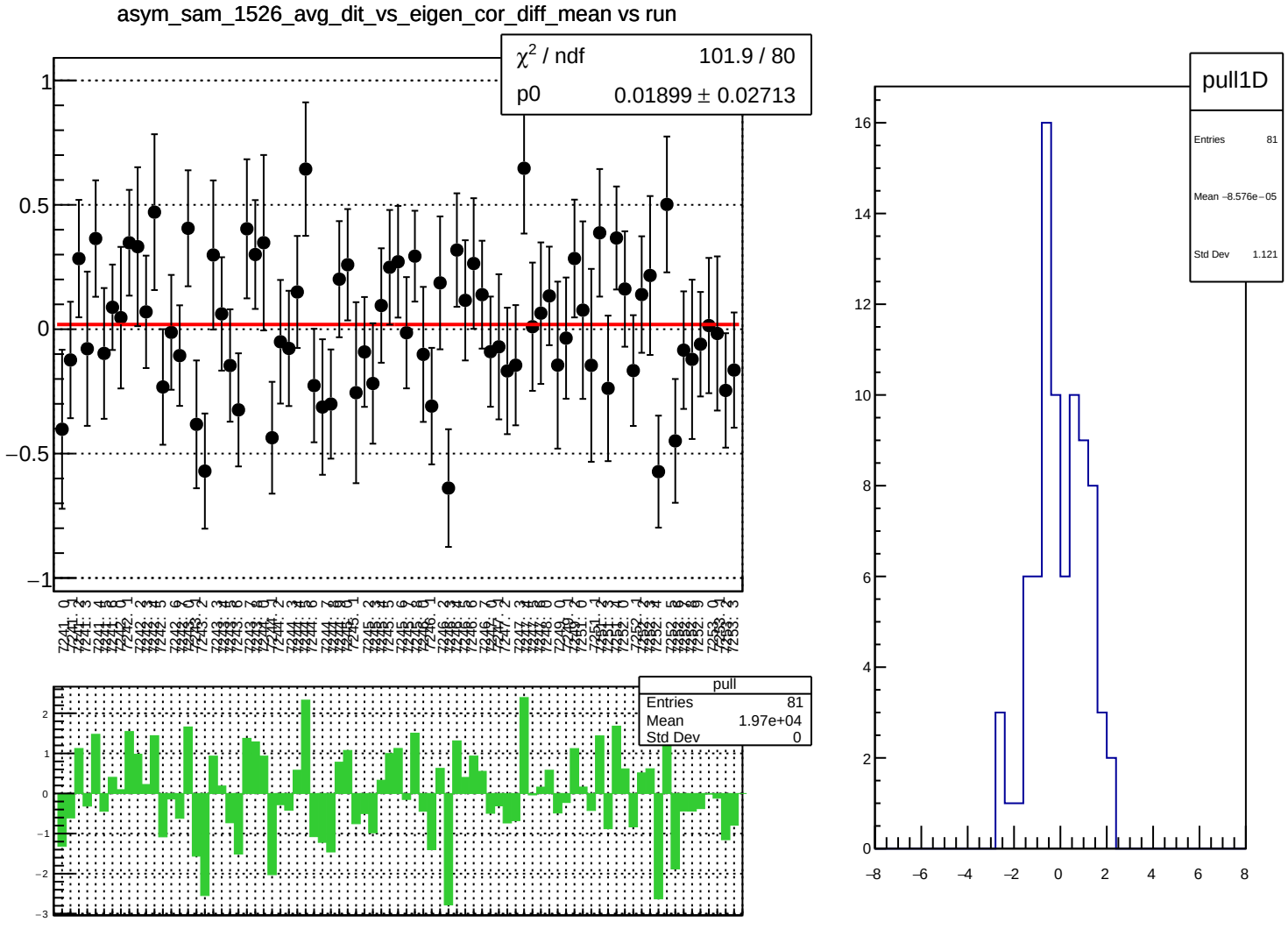

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 85.56 / 80
p0 1.878e−15 ± 6.781e−15
pull
Entries 81
Mean 34.89
Std Dev 0

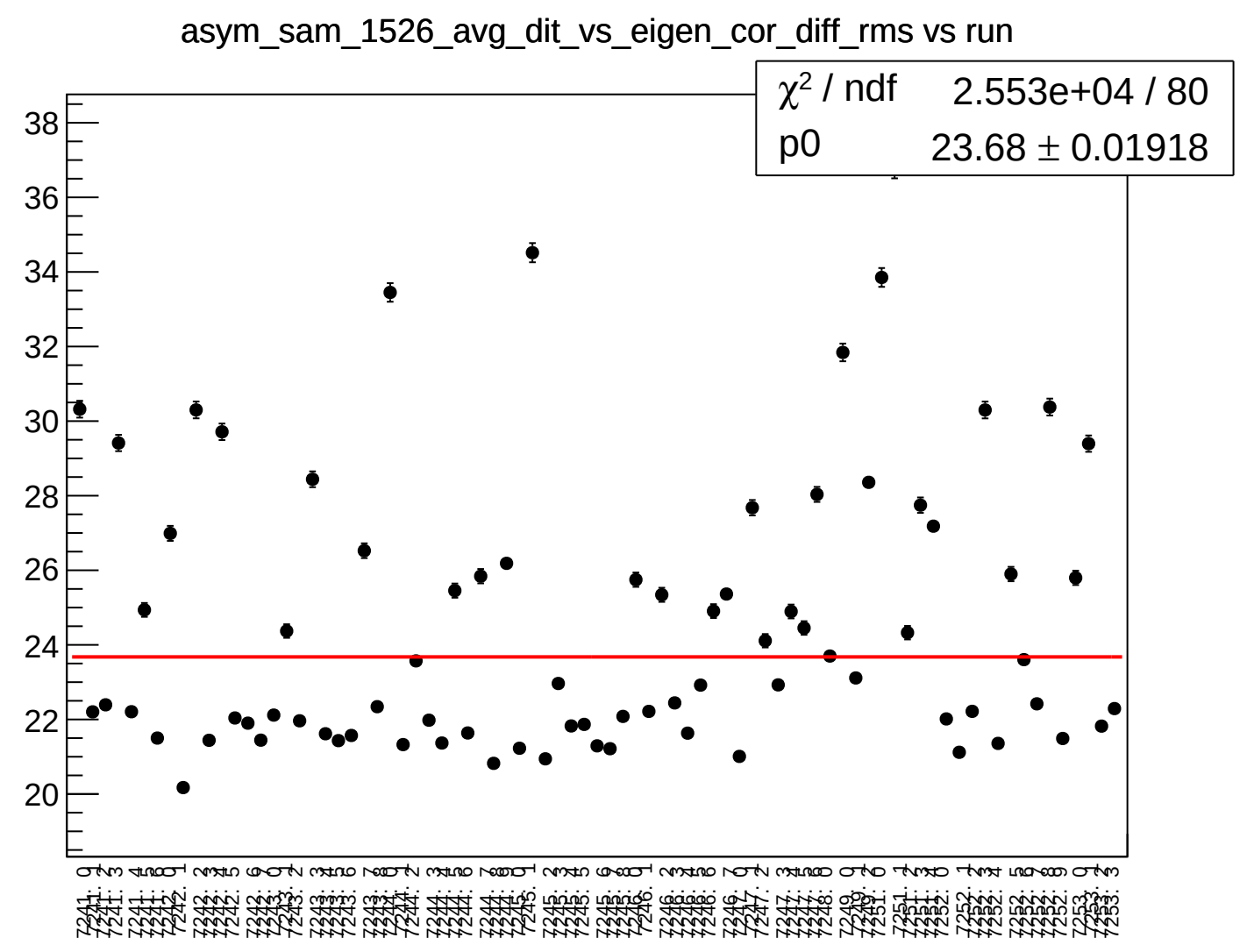

pull1D
Entries 81
Mean 0.05688
Std Dev 1.026

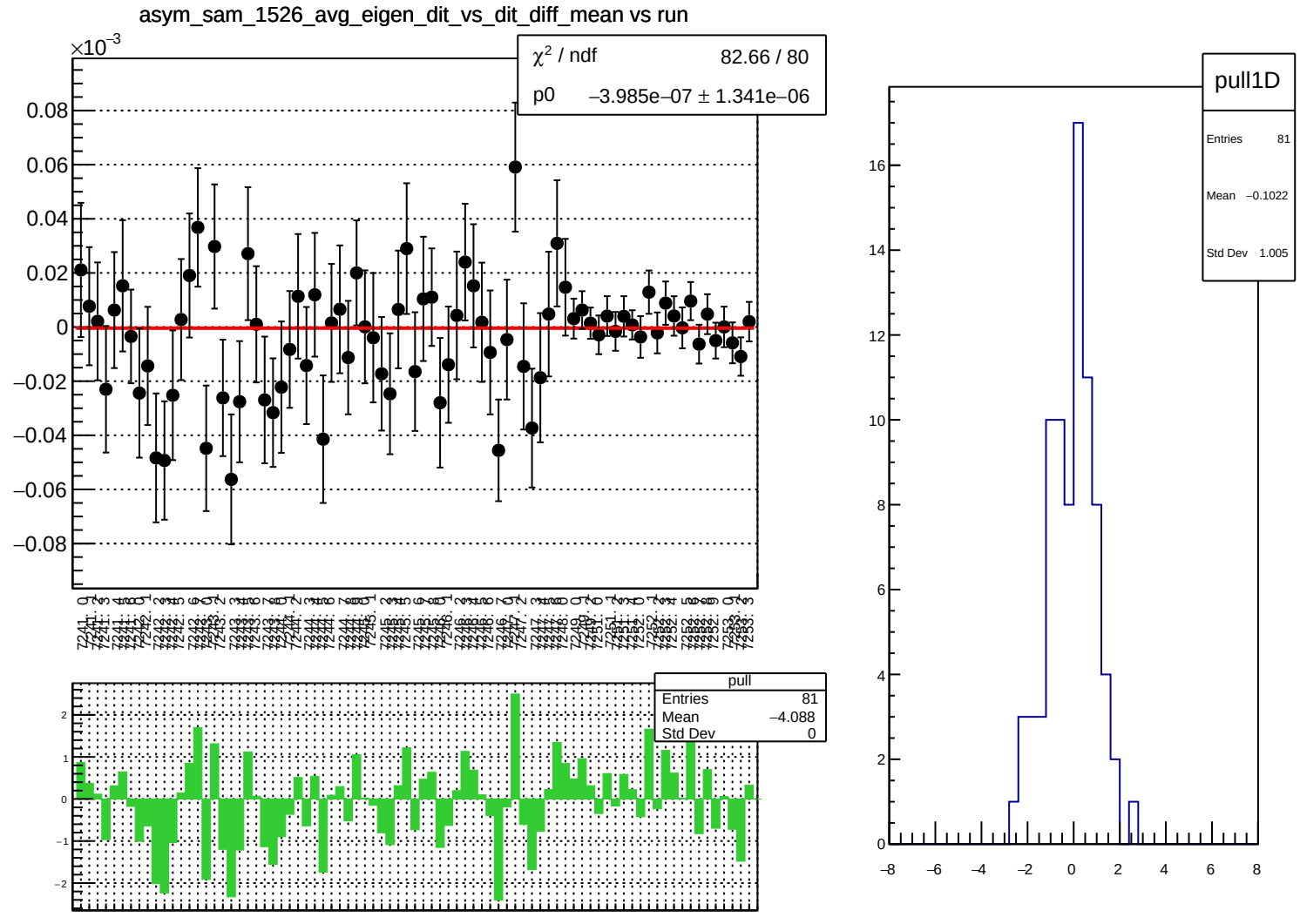

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.003e+06 / 80
p0 3.543e−12 ± 4.795e−15
0.025
0.02
0.015
0.01
0.005
0

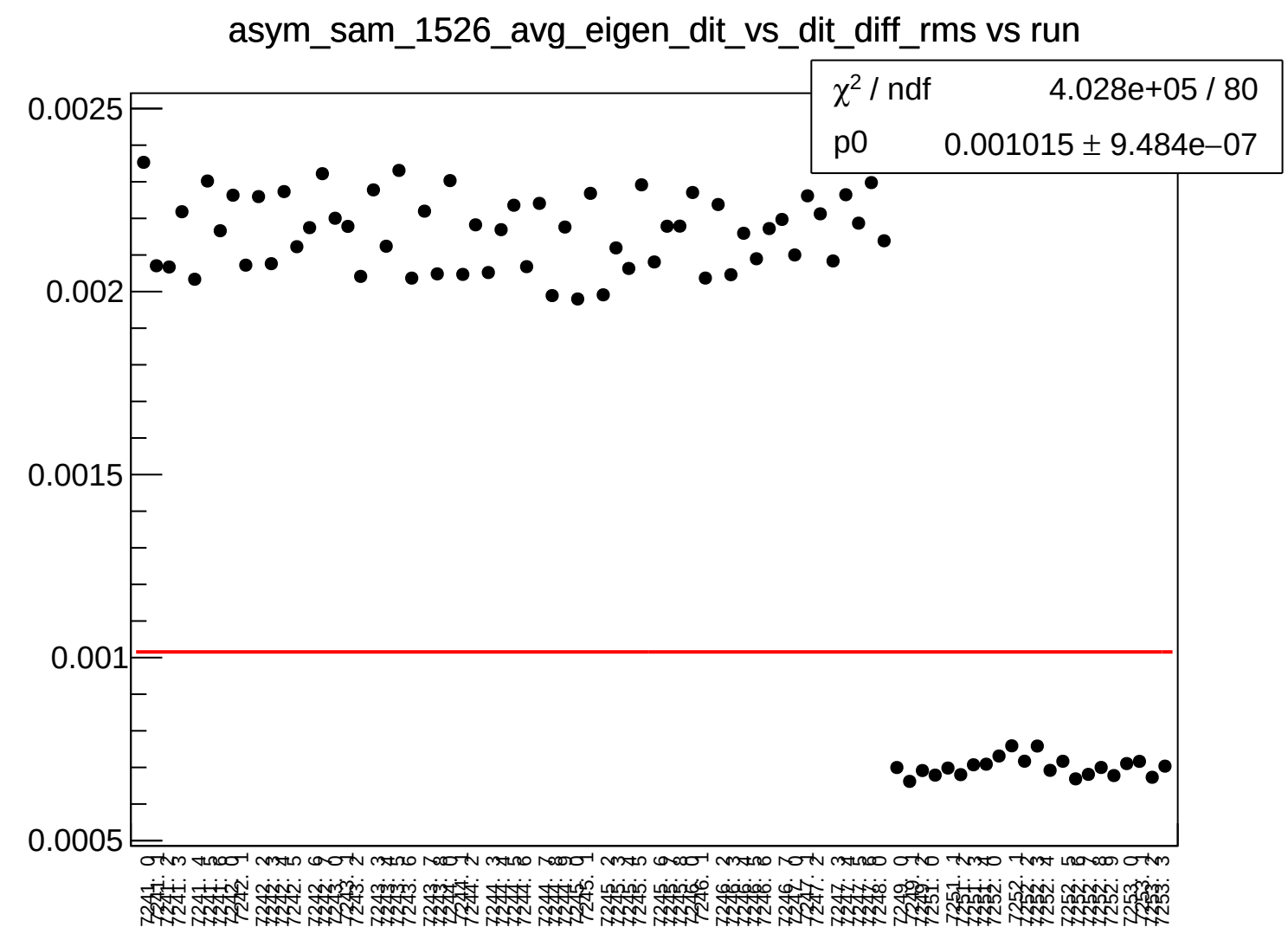

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 101.9 / 80
p0 0.01899 ± 0.02713
pull
Entries 81
Mean 1.97e+04
Std Dev 0
pull1D
Entries 81
Mean −8.576e−05
Std Dev 1.121

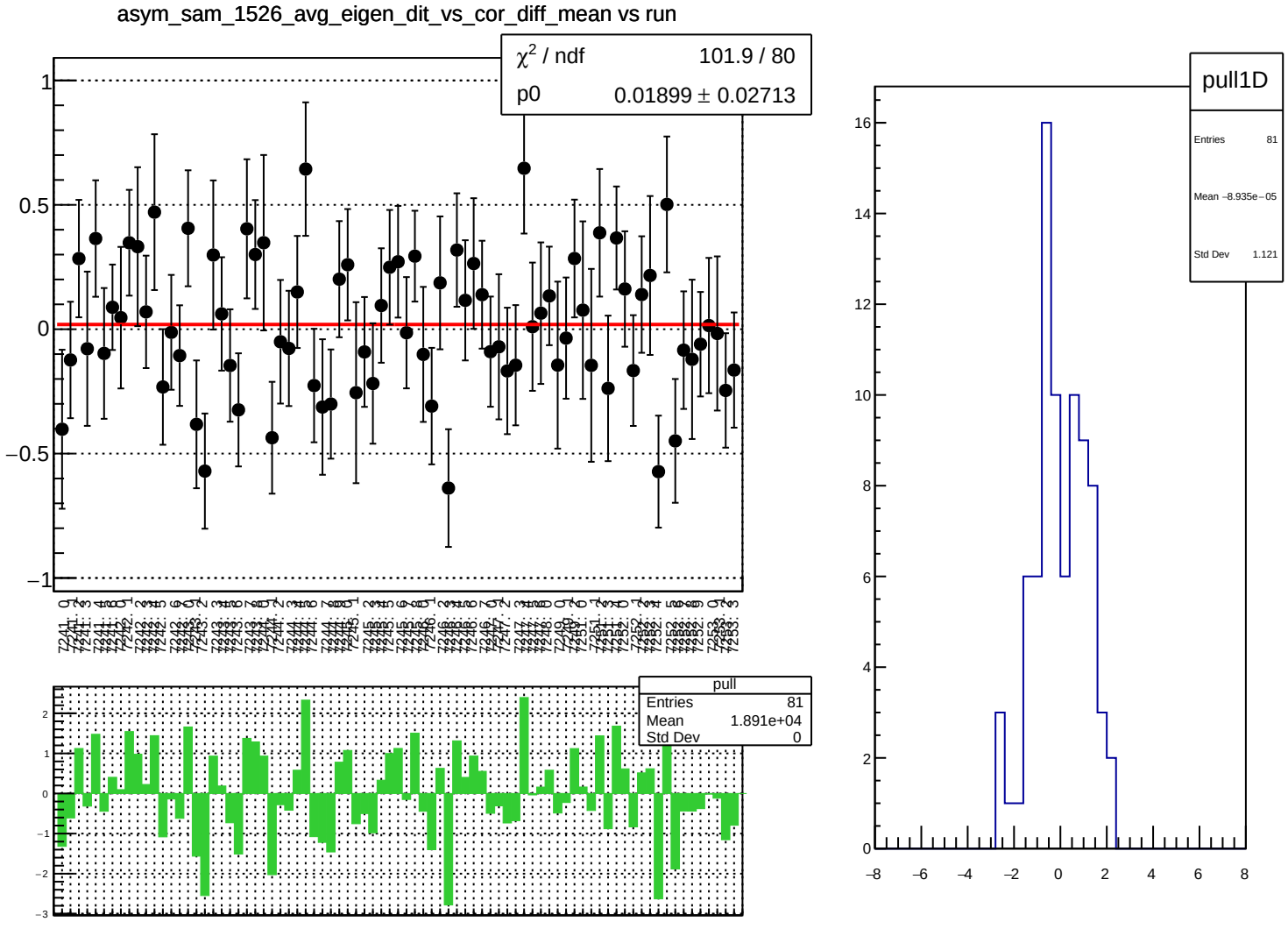

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.553e+04 / 80
p0 23.68 ± 0.01918
38
36
34
32
30
28
26
24
22
20

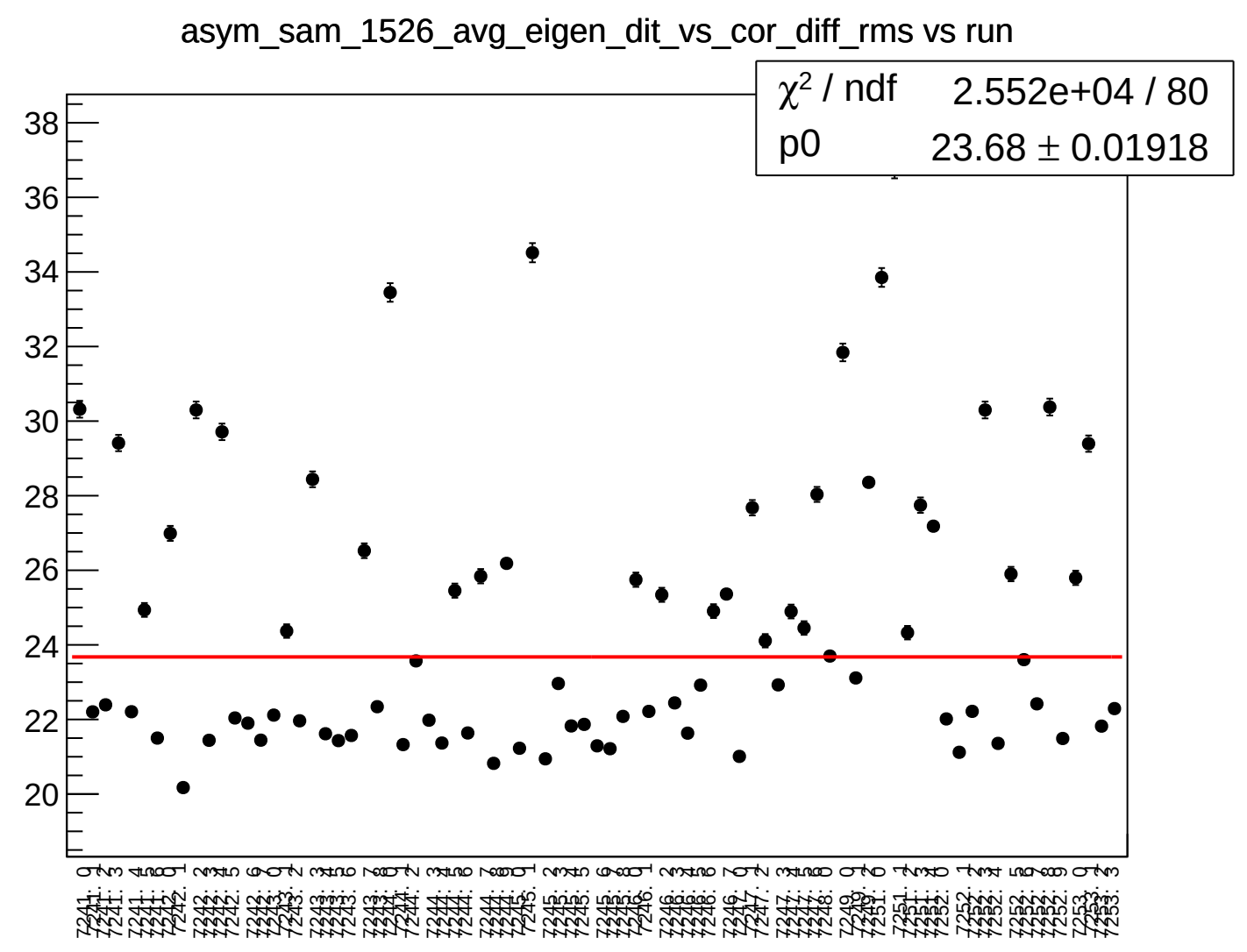

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.9 / 80
p0 0.01899 ± 0.02713
pull
Entries 81
Mean 1.97e+04
Std Dev 0
pull1D
Entries 81
Mean −8.576e−05
Std Dev 1.121

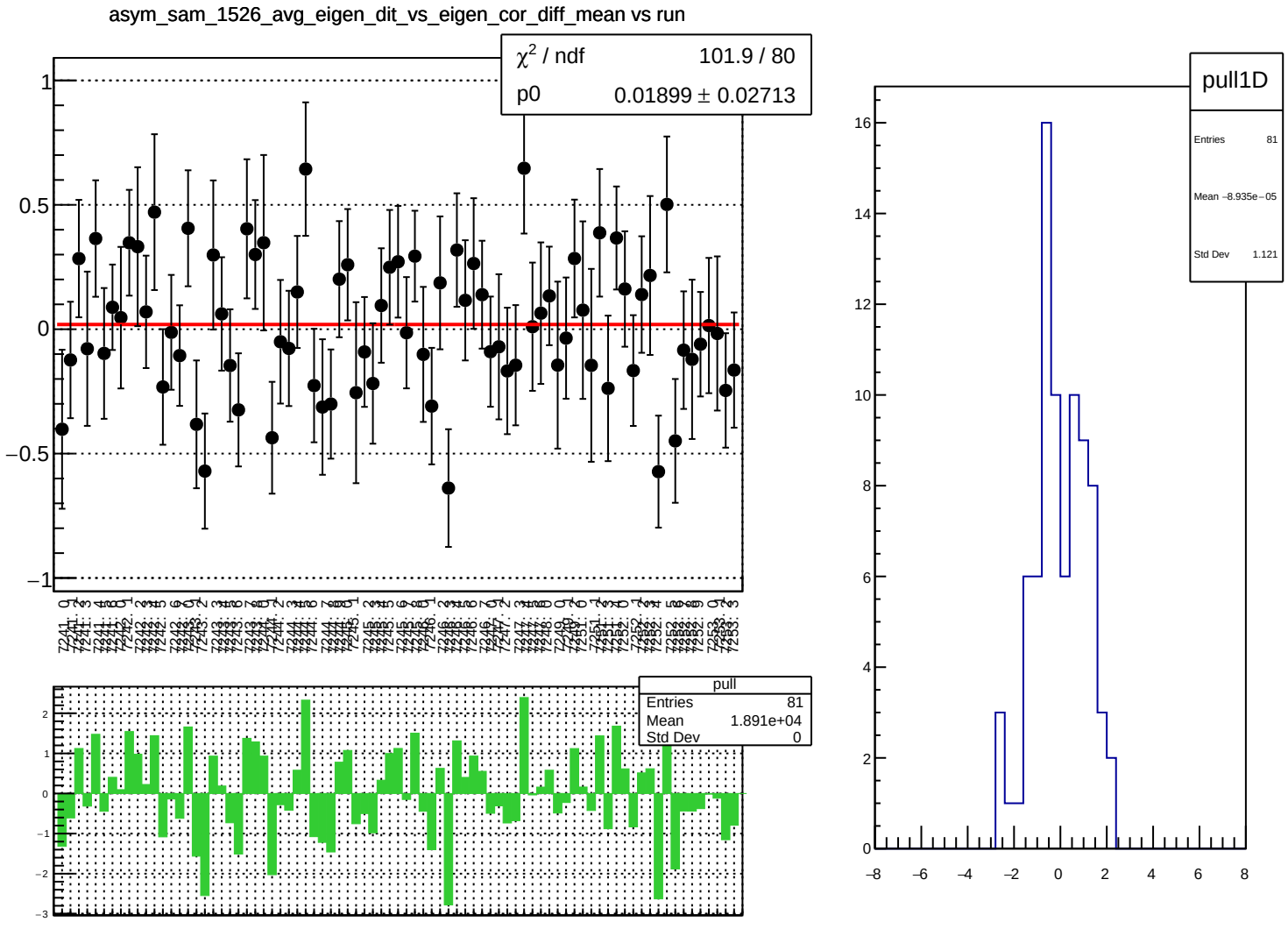

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.553e+04 / 80
p0 23.68 ± 0.01918
38
36
34
32
30
28
26
24
22
20

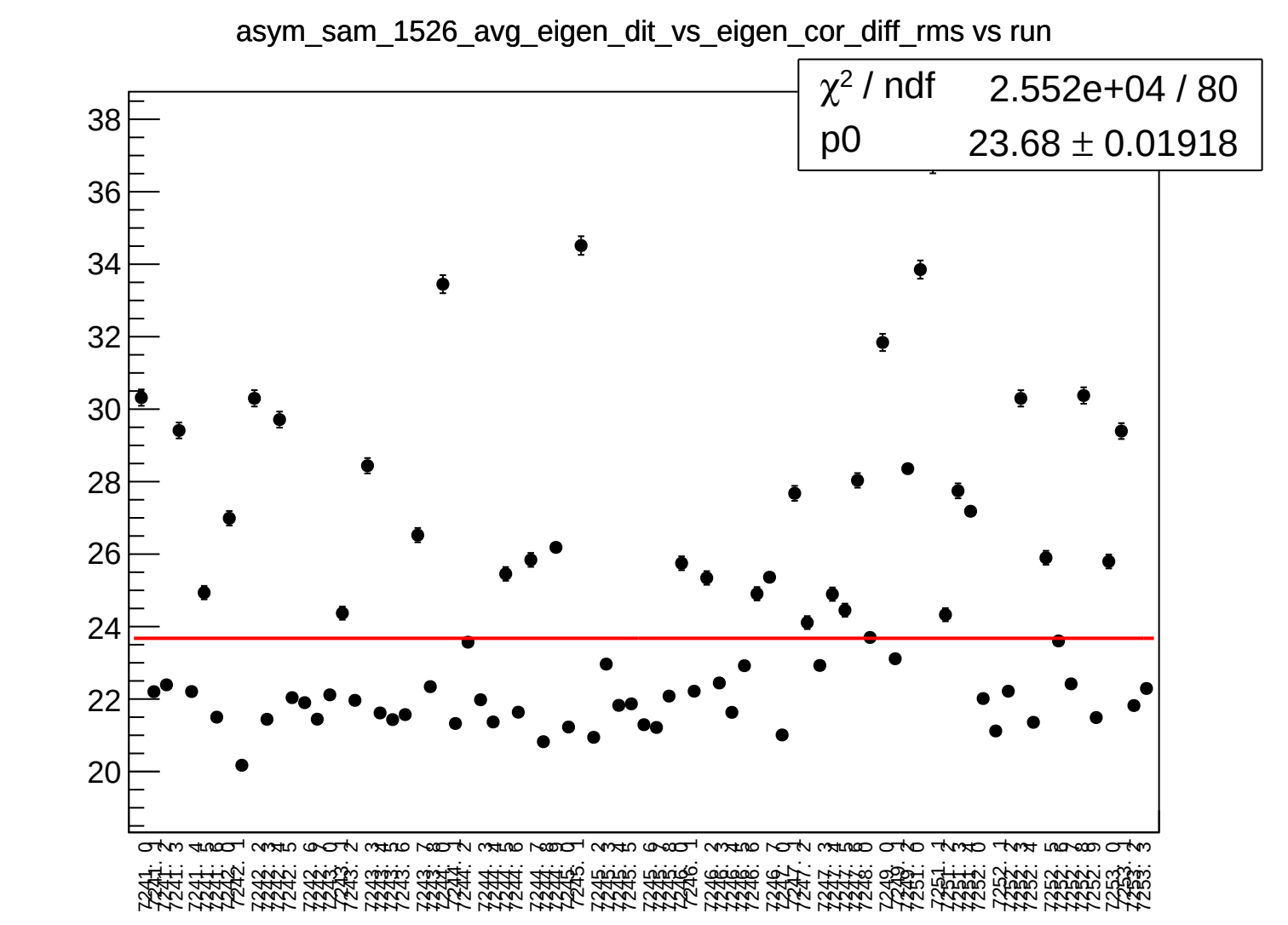

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.66 / 80
p0 −3.985e−07 ± 1.341e−06
pull
Entries 81
Mean −4.088
Std Dev 0
pull1D
Entries 81
Mean −0.1022
Std Dev 1.005

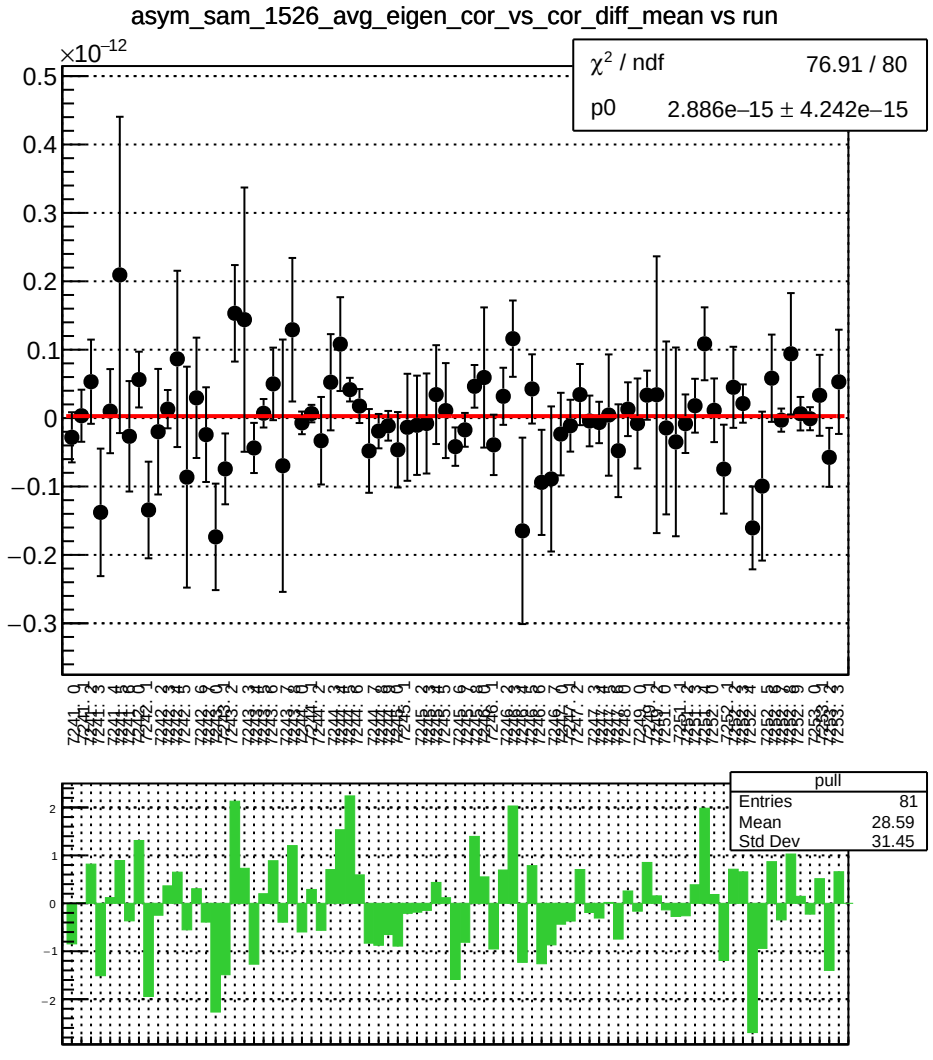

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.028e+05 / 80
p0 0.001015 ± 9.484e−07
0.0025
0.002
0.0015
0.001
0.0005

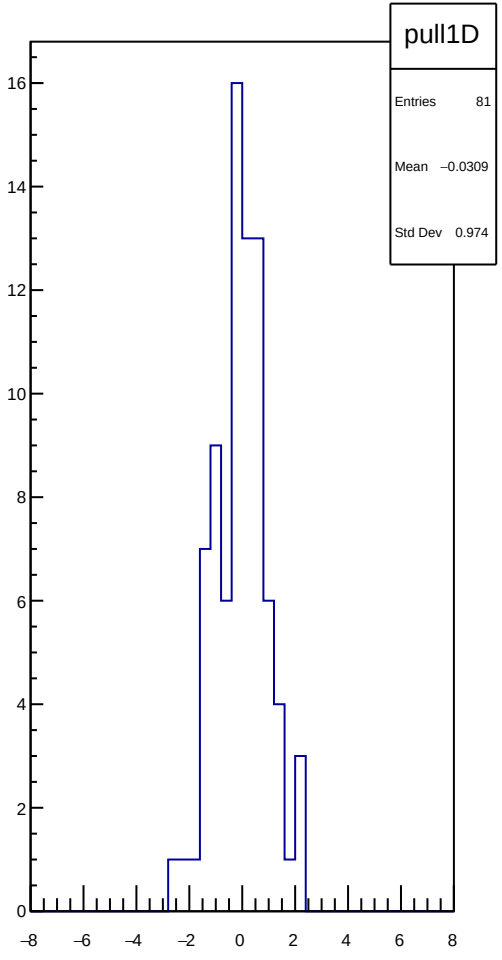

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101.9 / 80
p0 0.01899 ± 0.02713
pull
Entries 81
Mean 1.891e+04
Std Dev 0
pull1D
Entries 81
Mean −8.935e−05
Std Dev 1.121

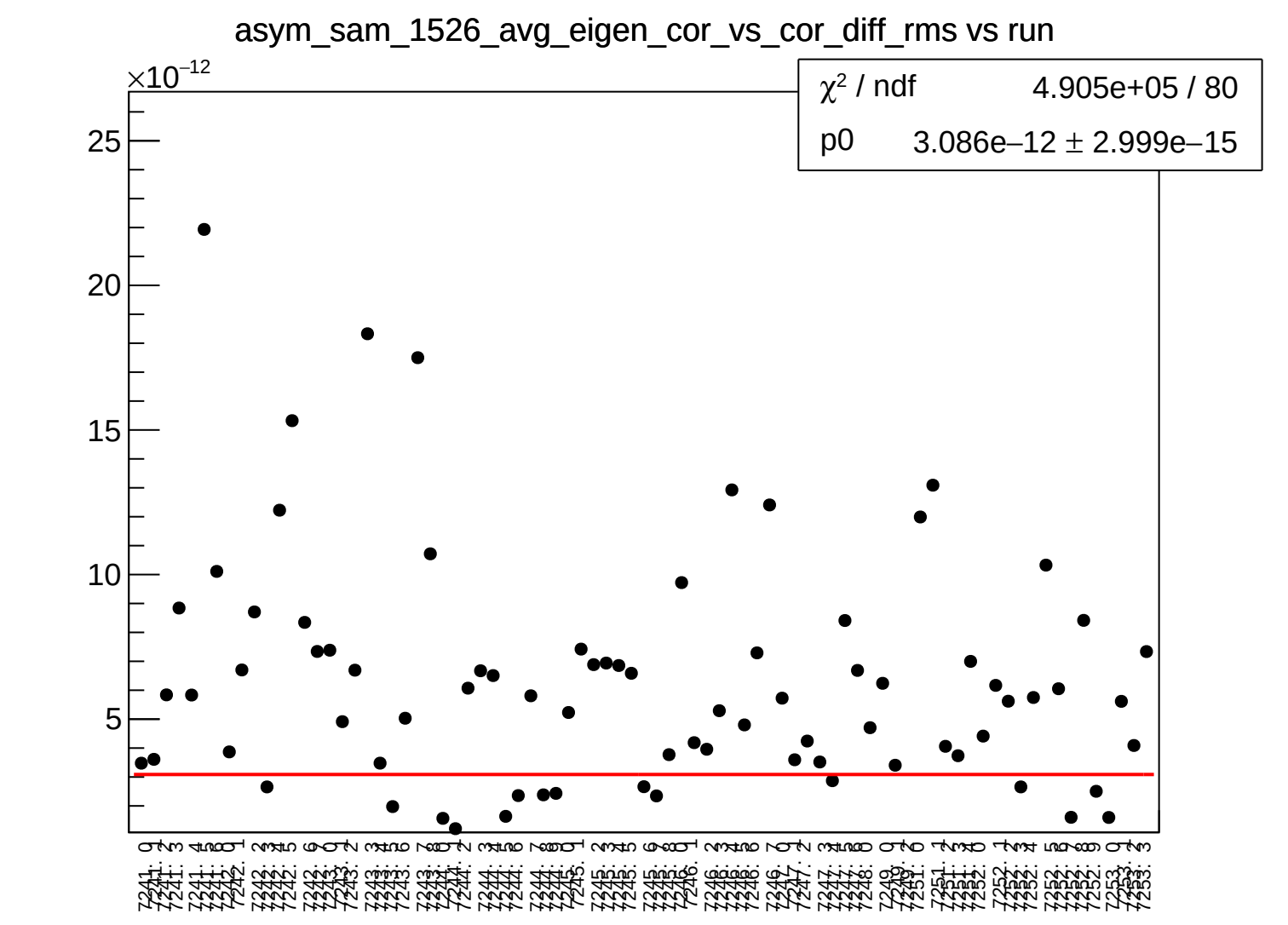

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.552e+04 / 80
p0 23.68 ± 0.01918
38
36
34
32
30
28
26
24
22
20

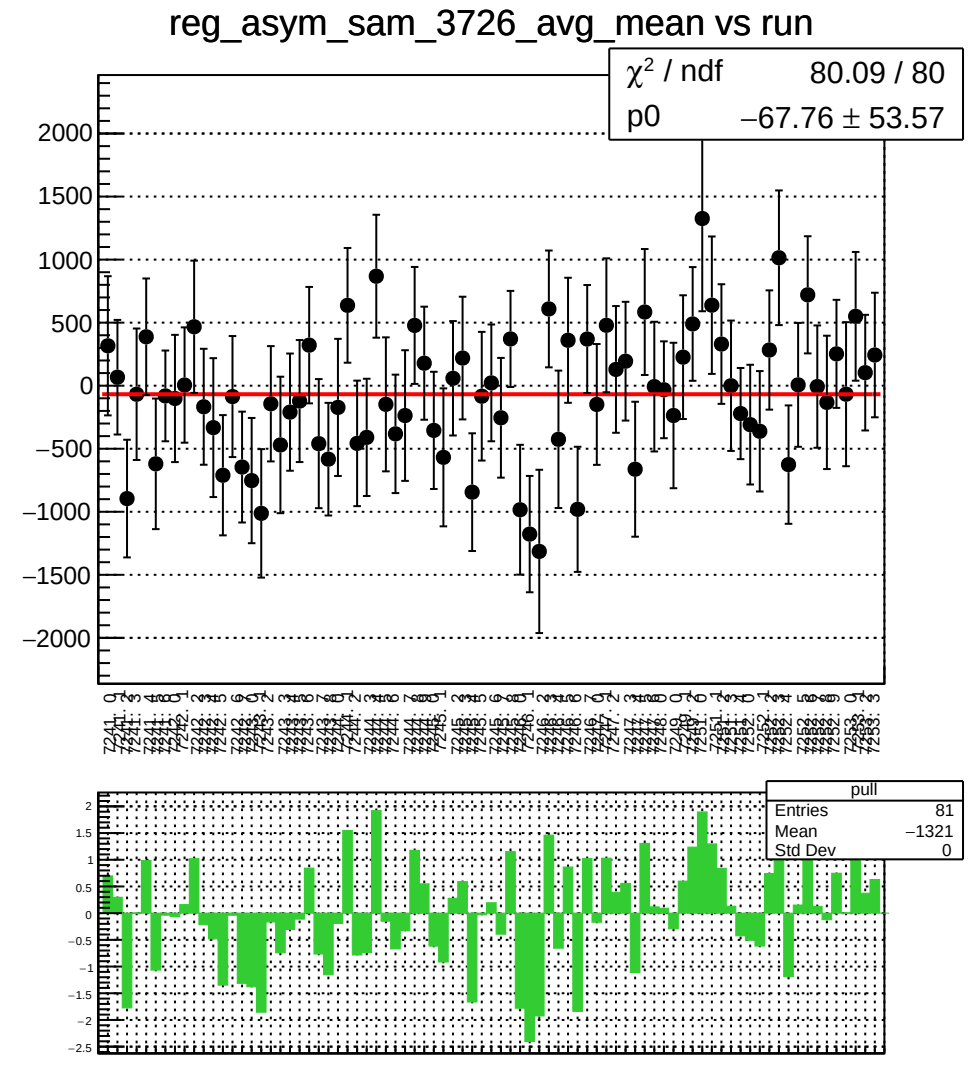

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.9 / 80
p0 0.01899 ± 0.02713
pull
Entries 81
Mean 1.891e+04
Std Dev 0
pull1D
Entries 81
Mean −8.935e−05
Std Dev 1.121

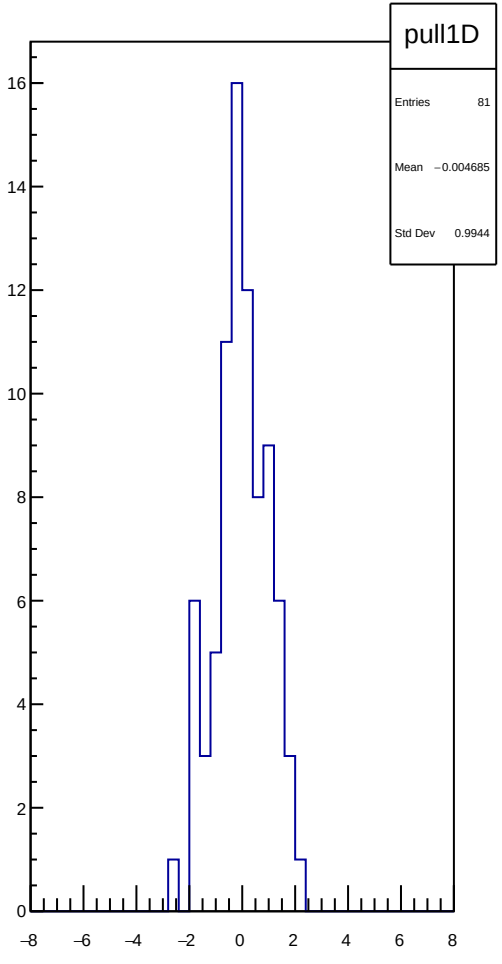

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.552e+04 / 80
p0 23.68 ± 0.01918
38
36
34
32
30
28
26
24
22
20

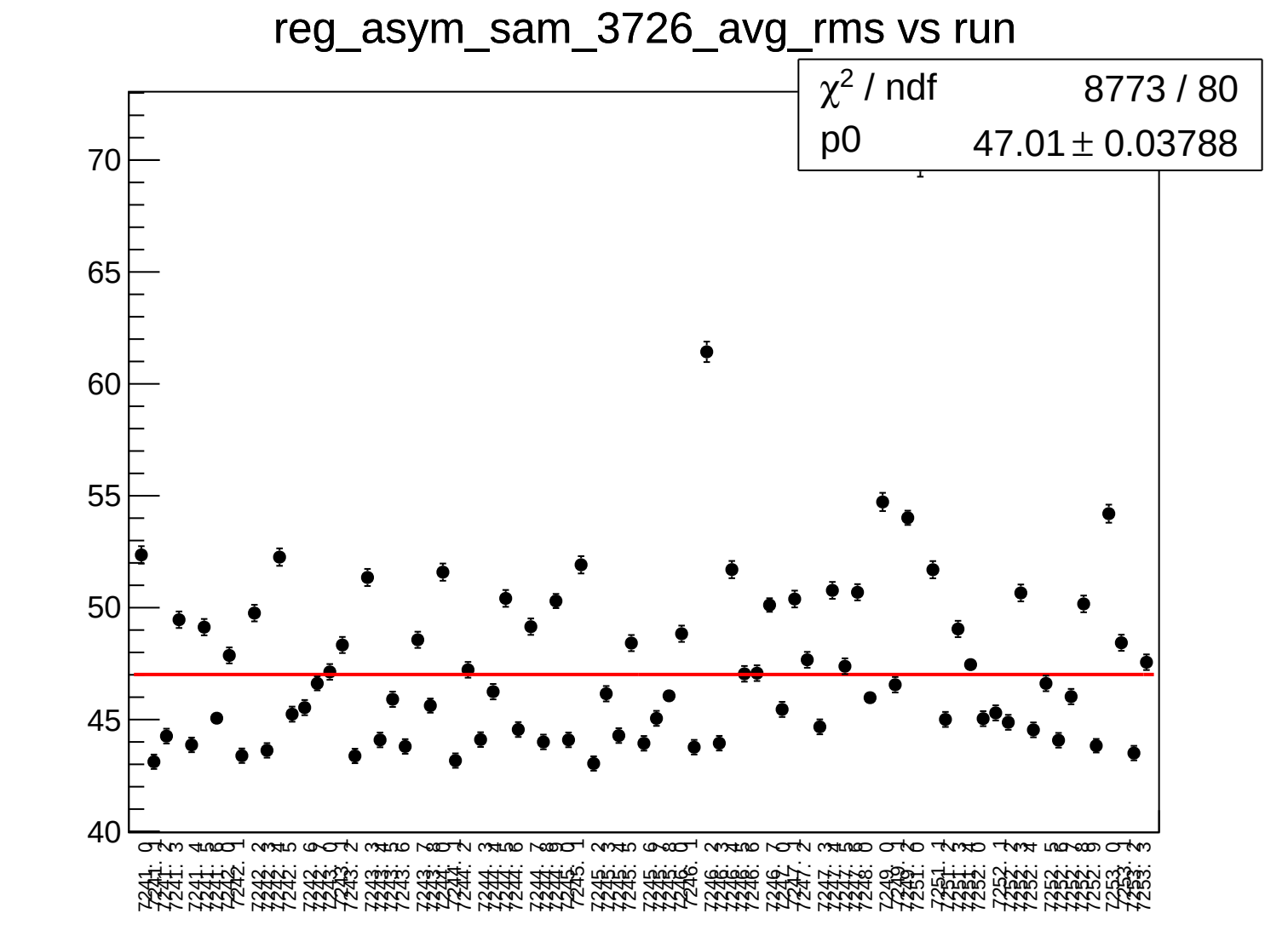

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.91 / 80
p0 2.886e−15 ± 4.242e−15
pull
Entries 81
Mean 28.59
Std Dev 31.45

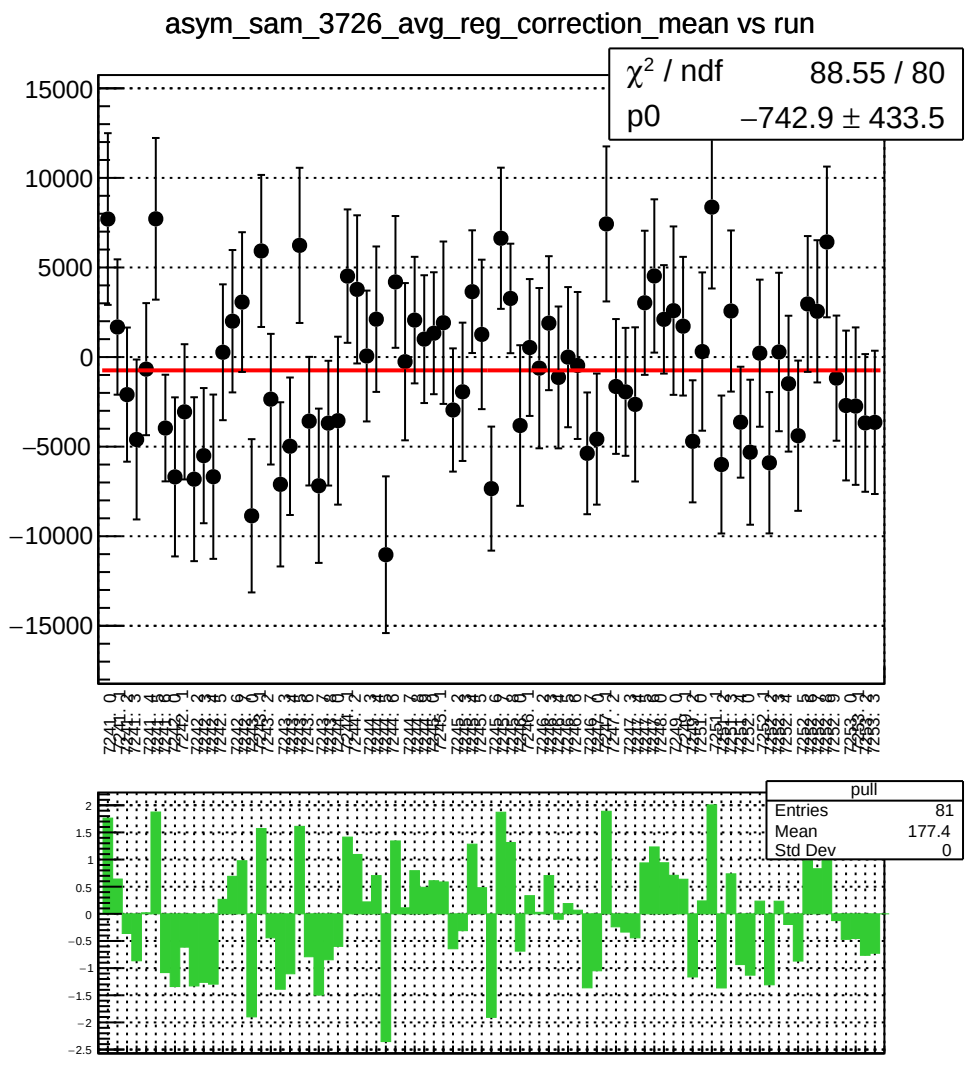

pull1D
Entries 81
Mean −0.0309
Std Dev 0.974

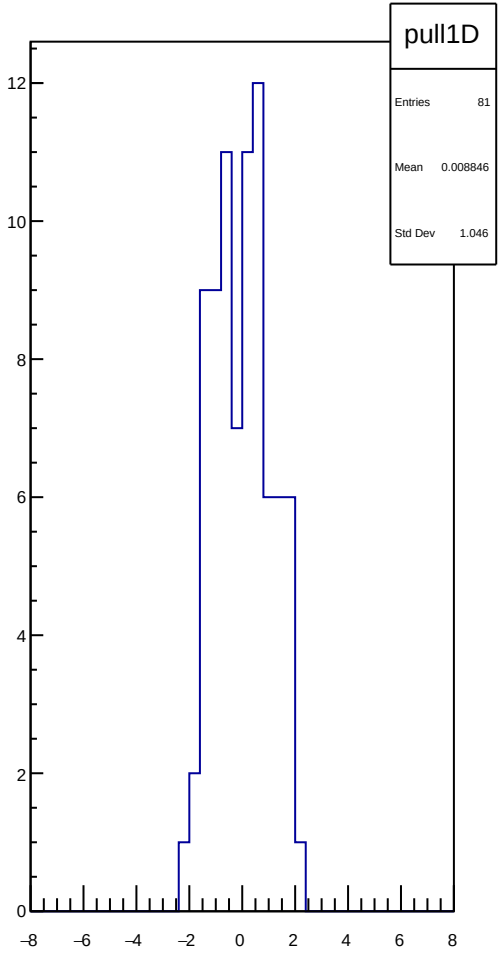

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.905e+05 / 80
p0 3.086e−12 ± 2.999e−15
25
20
15
10
5

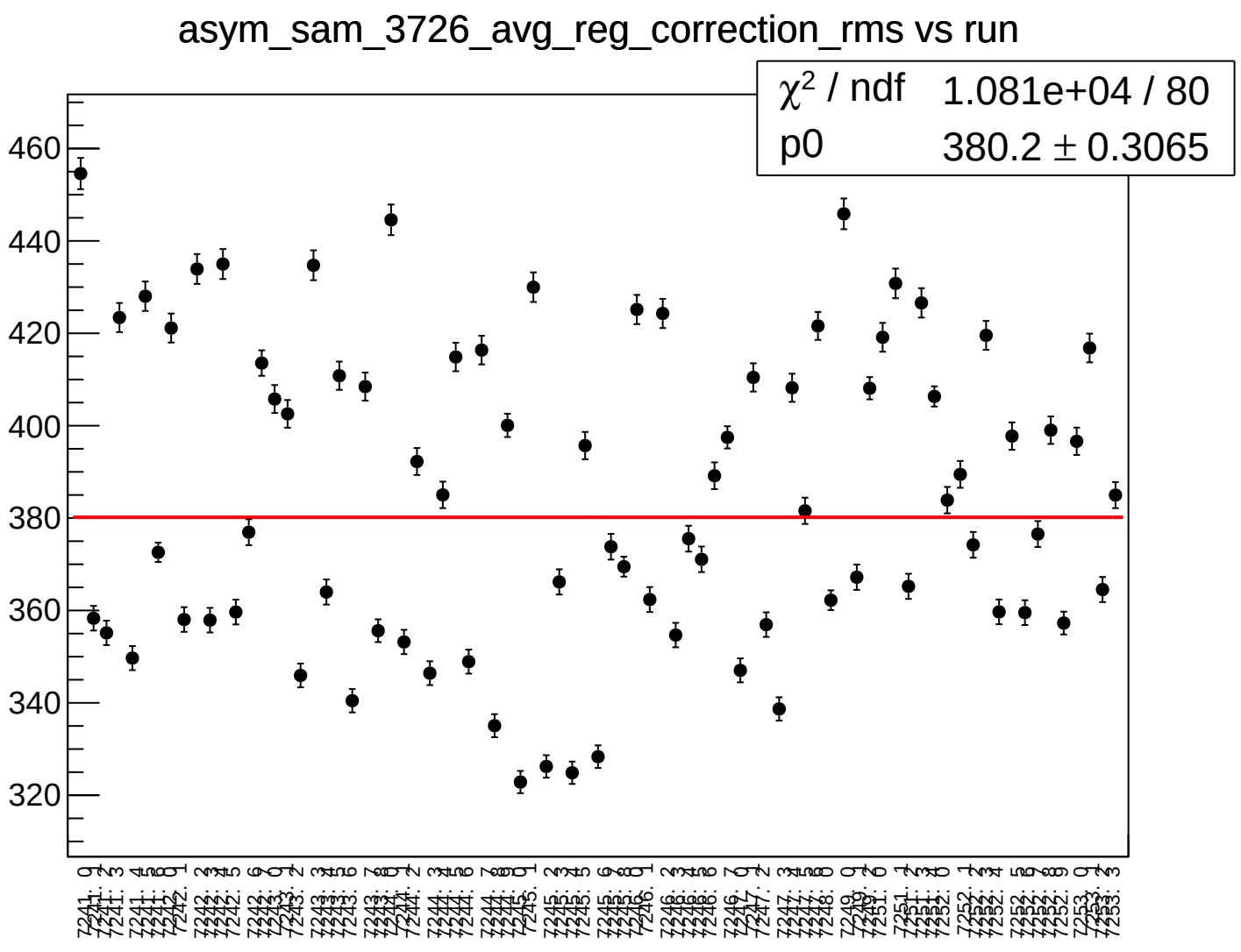

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 80.09 / 80
p0 −67.76 ± 53.57
pull
Entries 81
Mean −1321
Std Dev 0

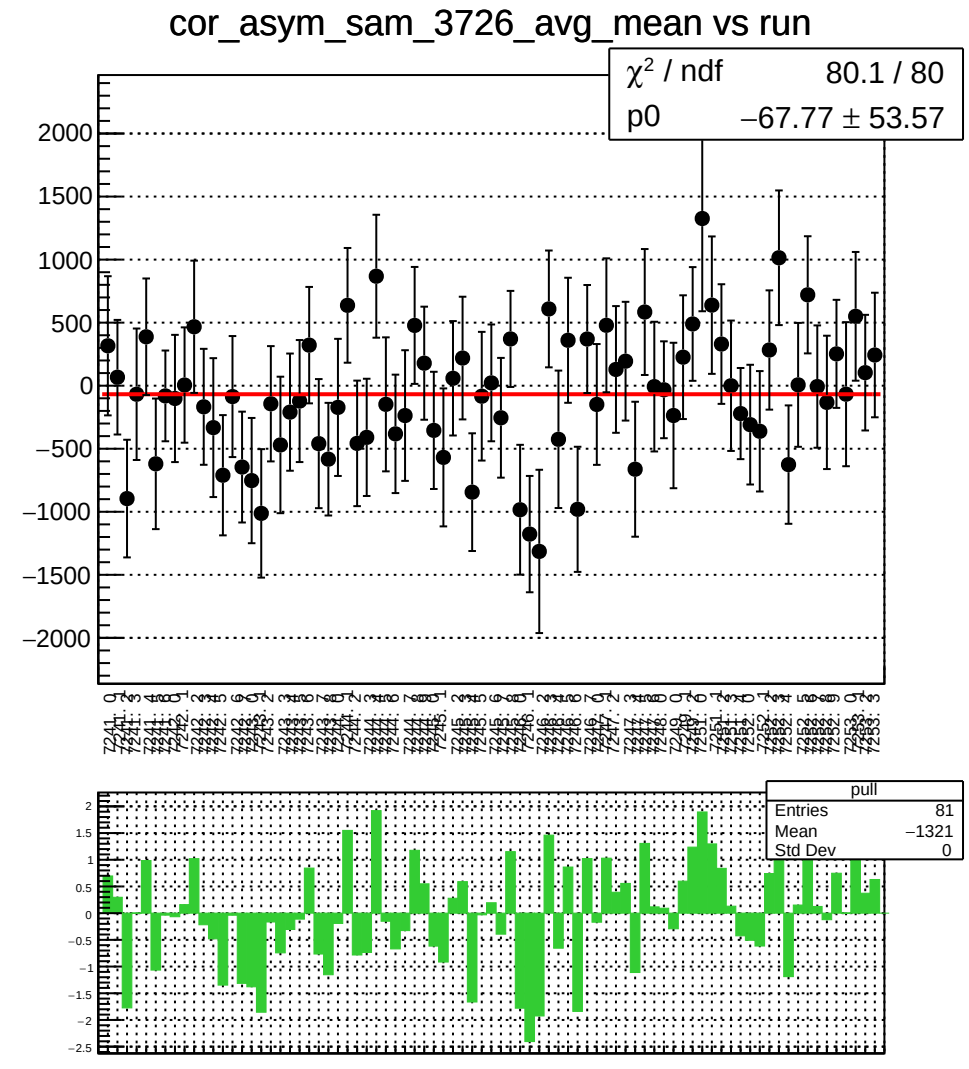

pull1D
Entries 81
Mean −0.004685
Std Dev 0.9944

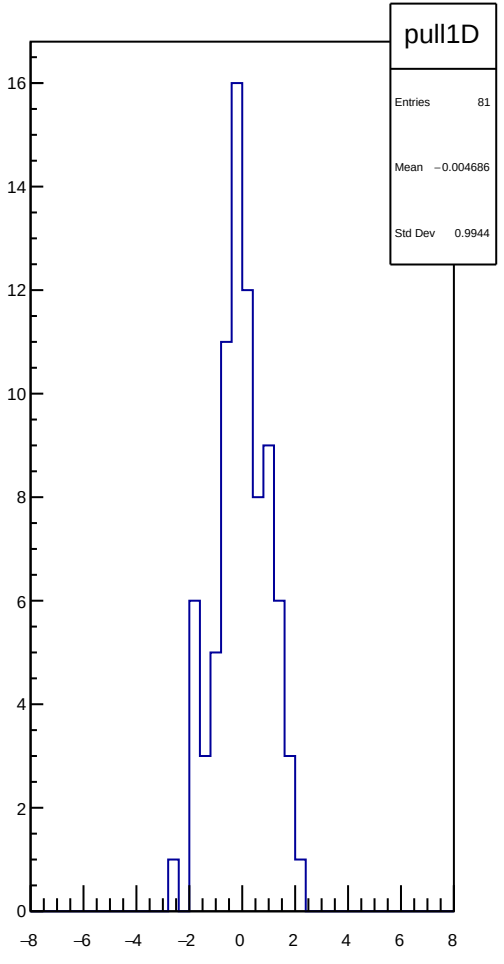

reg_asym_sam_3726_avg_rms vs run
χ^2 / ndf 8773 / 80
p0 47.01 ± 0.03788
70
65
60
55
50
45
40

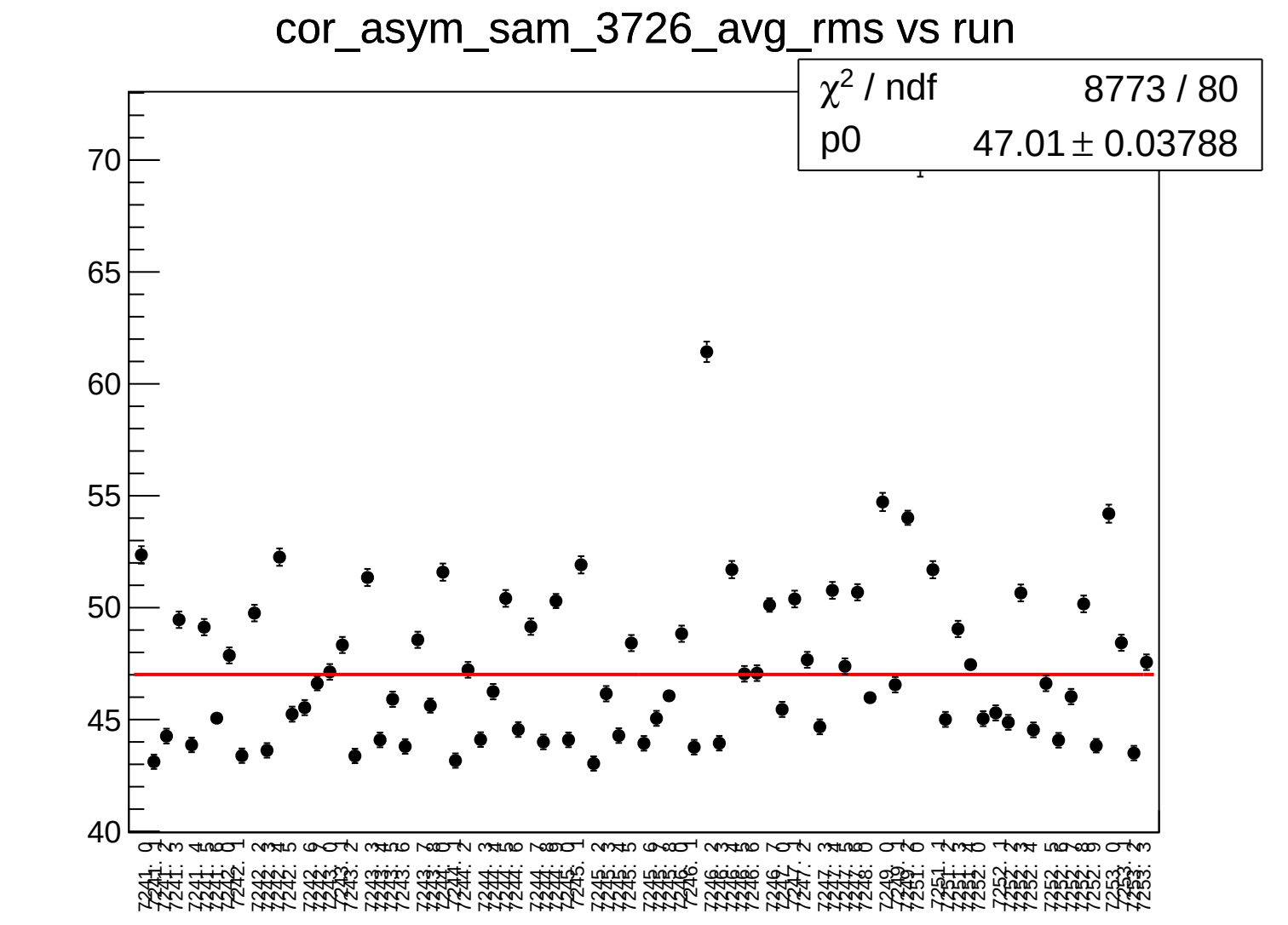

asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 88.55 / 80
p0 −742.9 ± 433.5
pull
Entries 81
Mean 177.4
Std Dev 0

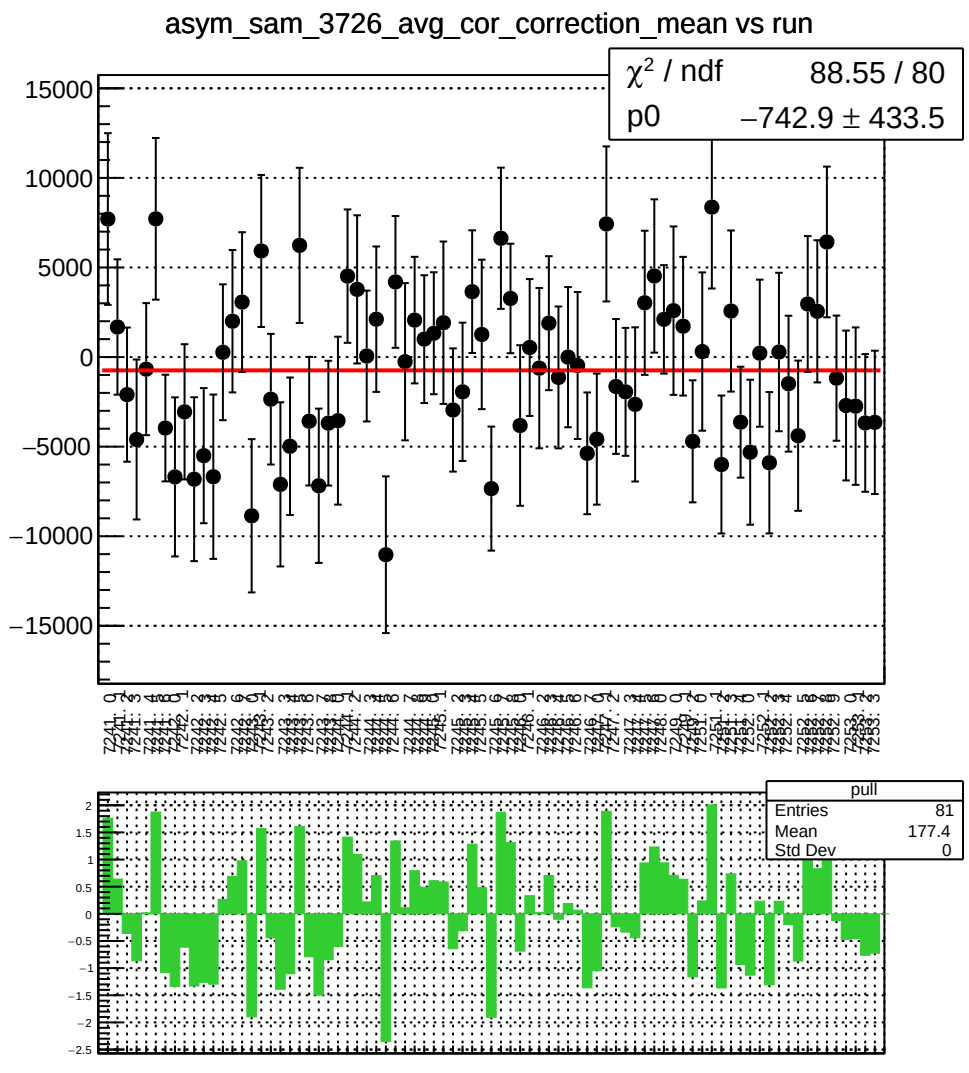

pull1D
Entries 81
Mean 0.008846
Std Dev 1.046

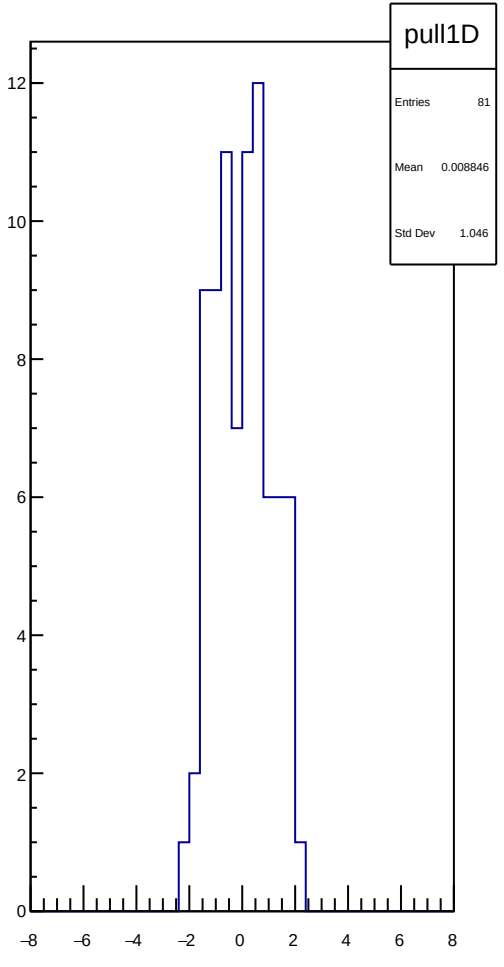

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 1.081e+04 / 80
p0 380.2 ± 0.3065
460
440
420
400
380
360
340
320

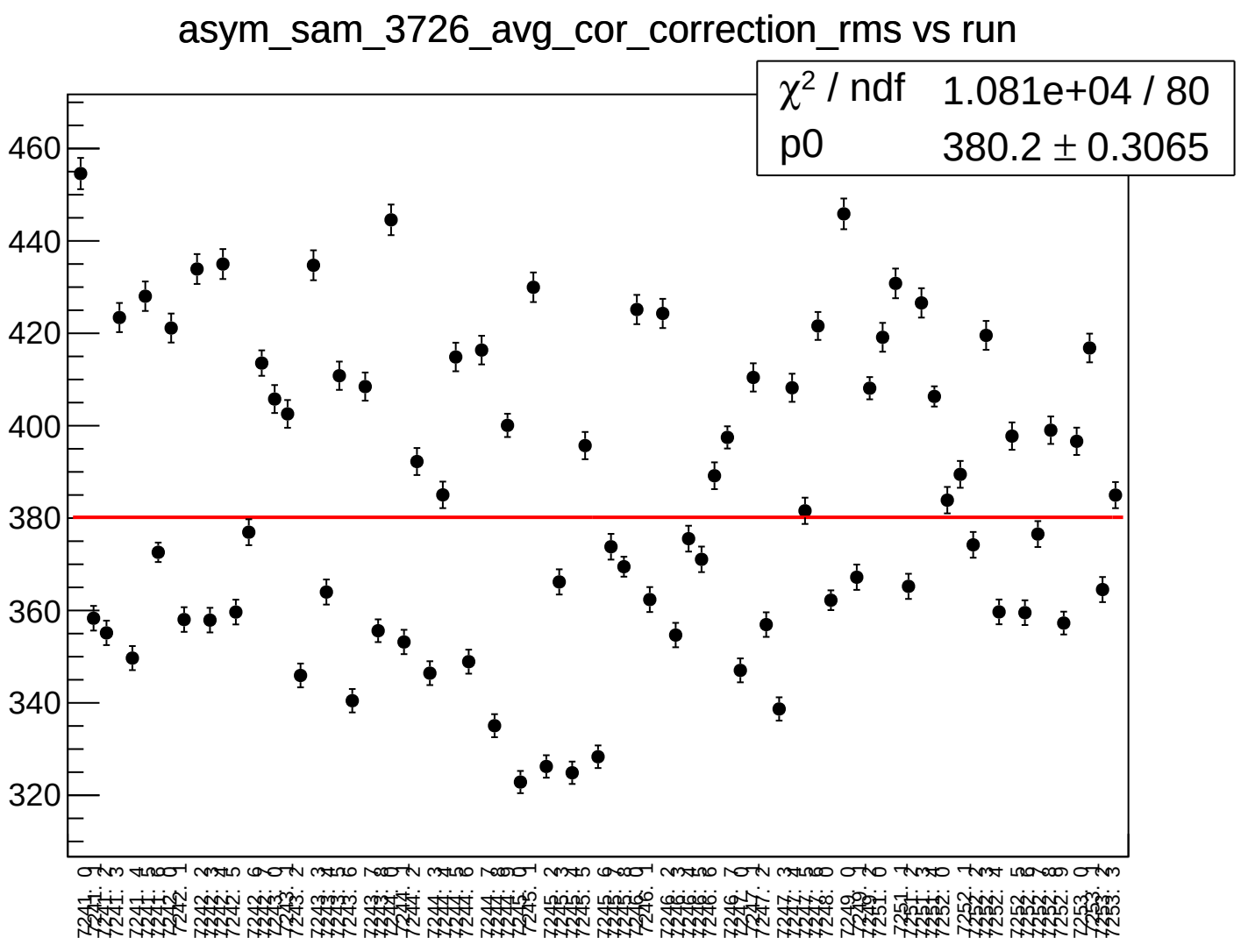

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 80.1 / 80
p0 −67.77 ± 53.57
pull
Entries 81
Mean −1321
Std Dev 0

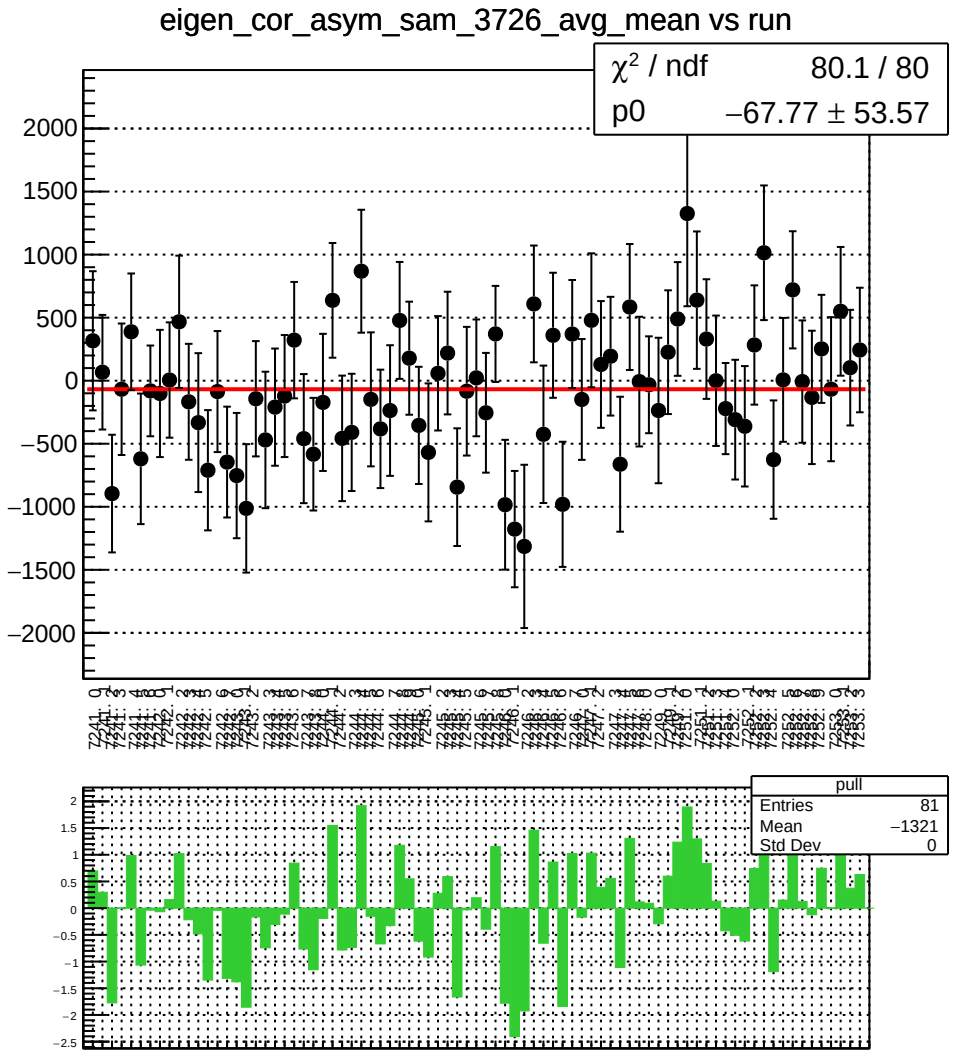

pull1D
Entries 81
Mean −0.004686
Std Dev 0.9944

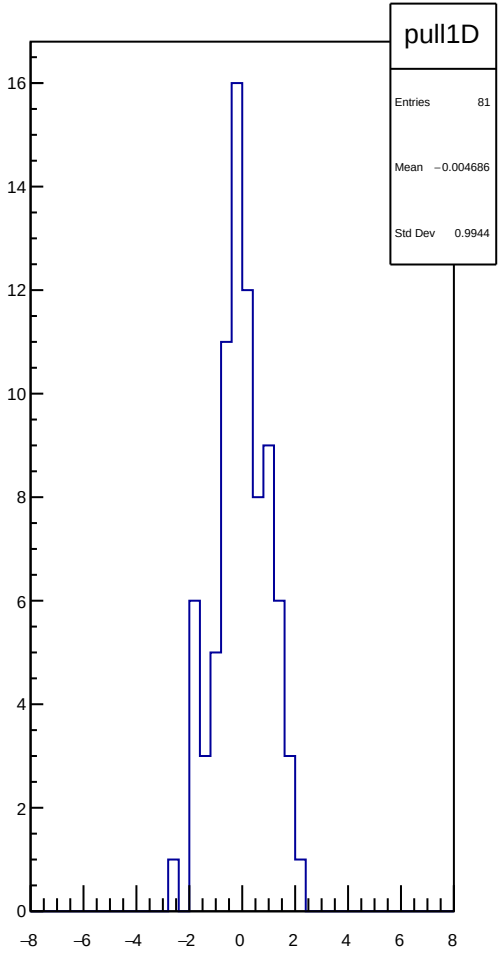

cor_asym_sam_3726_avg_rms vs run
χ^2 / ndf 8773 / 80
p0 47.01 ± 0.03788
70
65
60
55
50
45
40

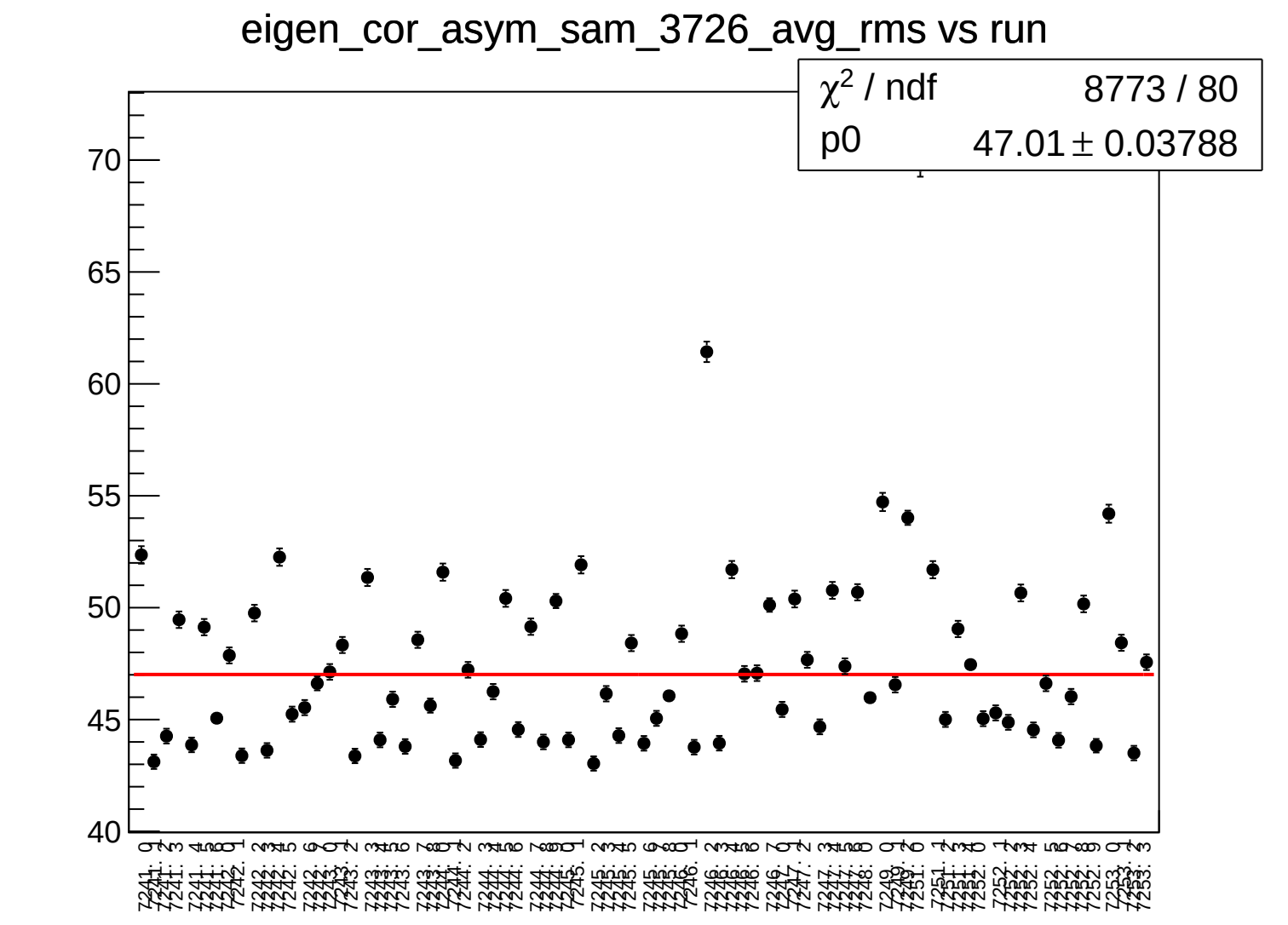

asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 88.55 / 80
p0 −742.9 ± 433.5
pull
Entries 81
Mean 177.4
Std Dev 0

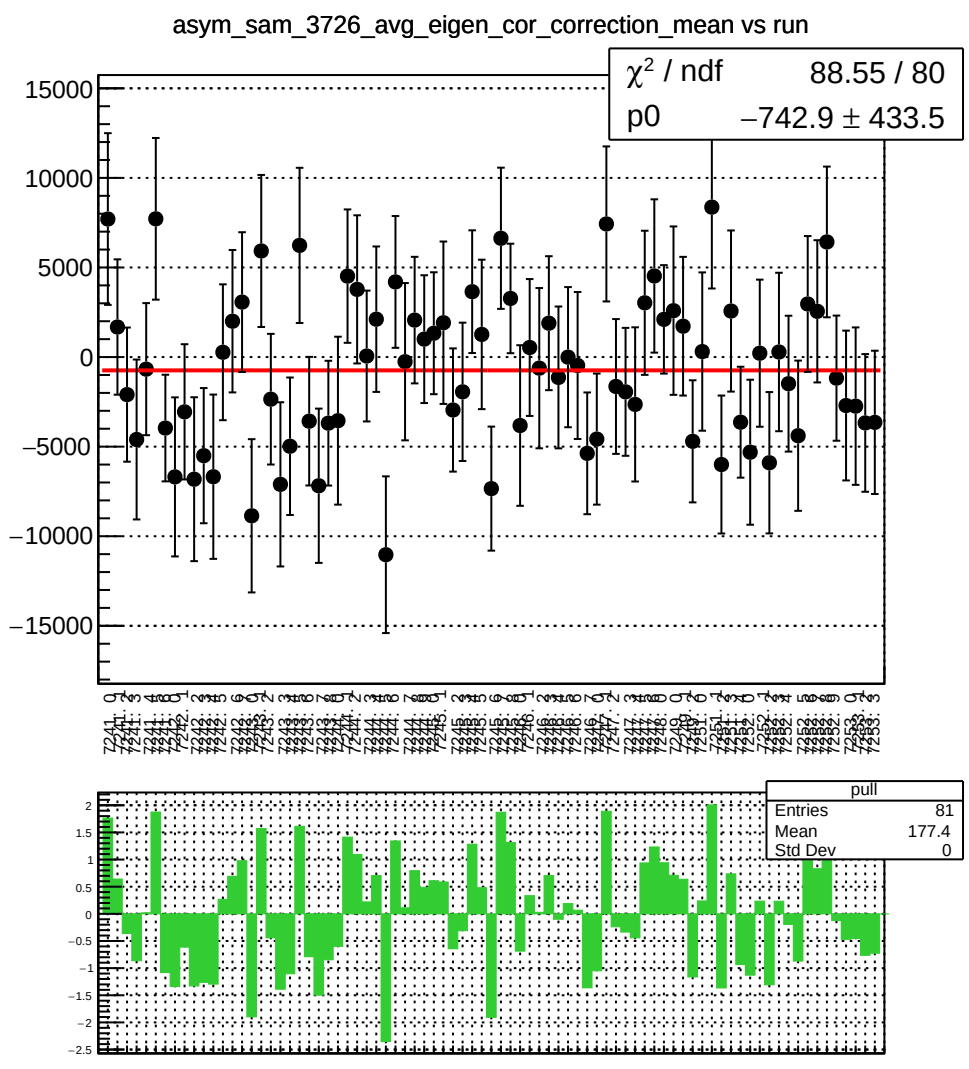

pull1D
Entries 81
Mean 0.008846
Std Dev 1.046

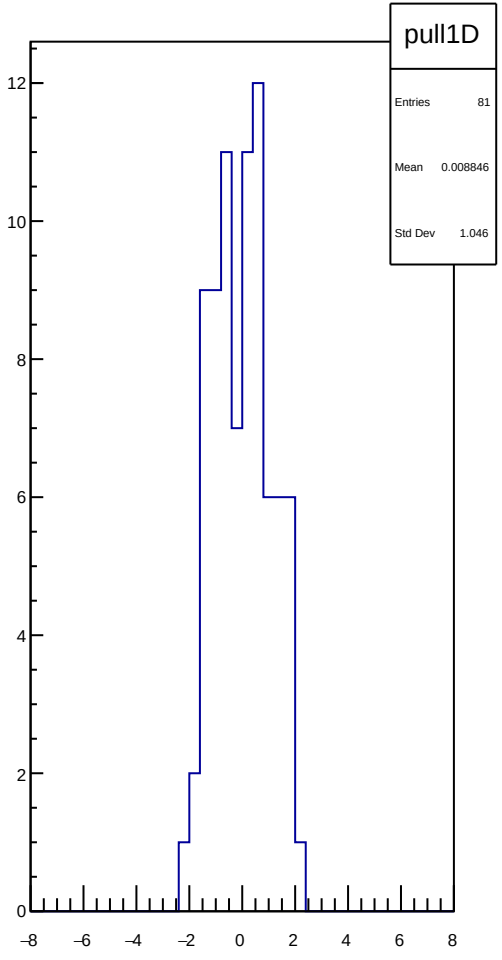

asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 1.081e+04 / 80
p0 380.2 ± 0.3065
460
440
420
400
380
360
340
320

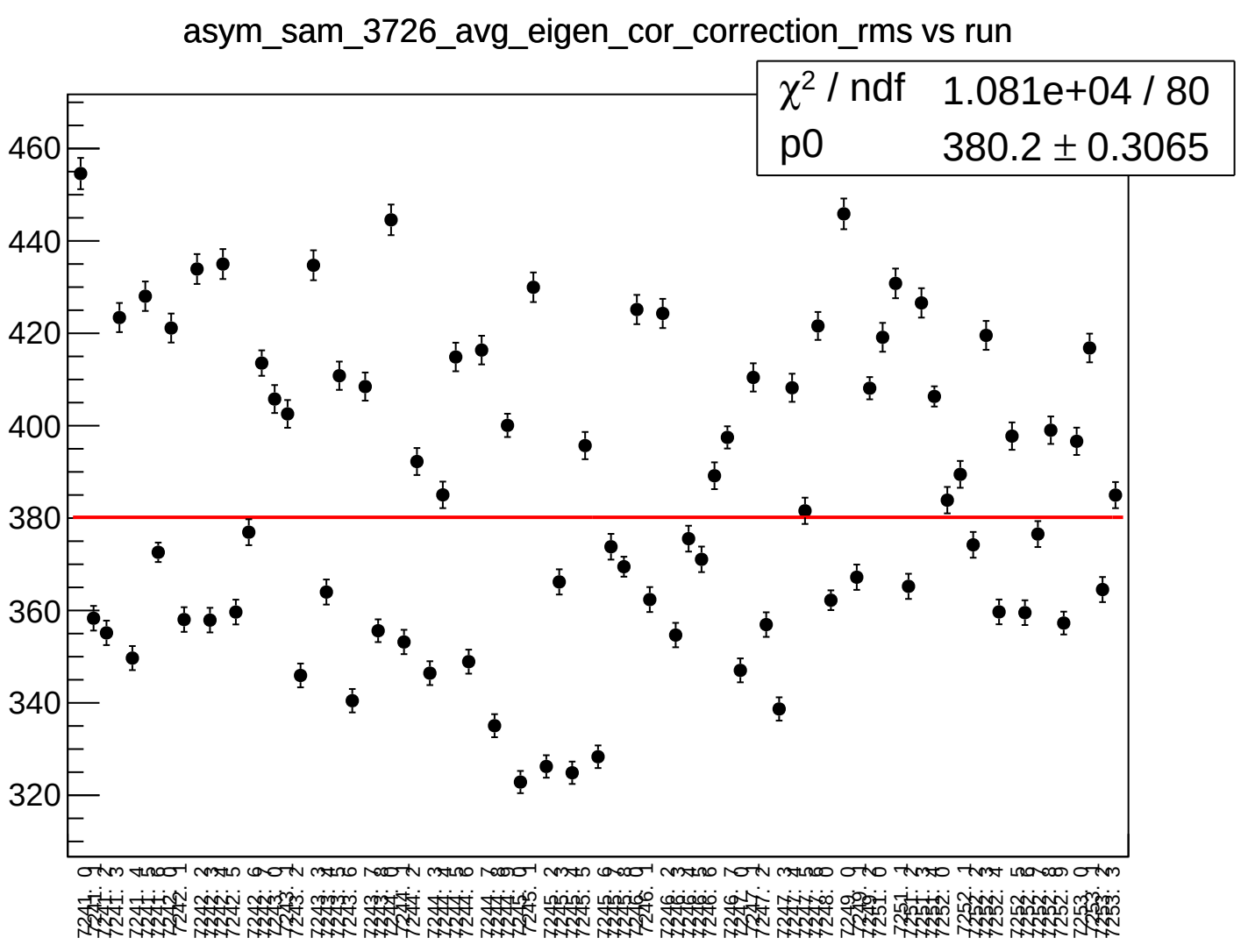

eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 80.1 / 80
p0 −67.77 ± 53.57
pull
Entries 81
Mean −1321
Std Dev 0

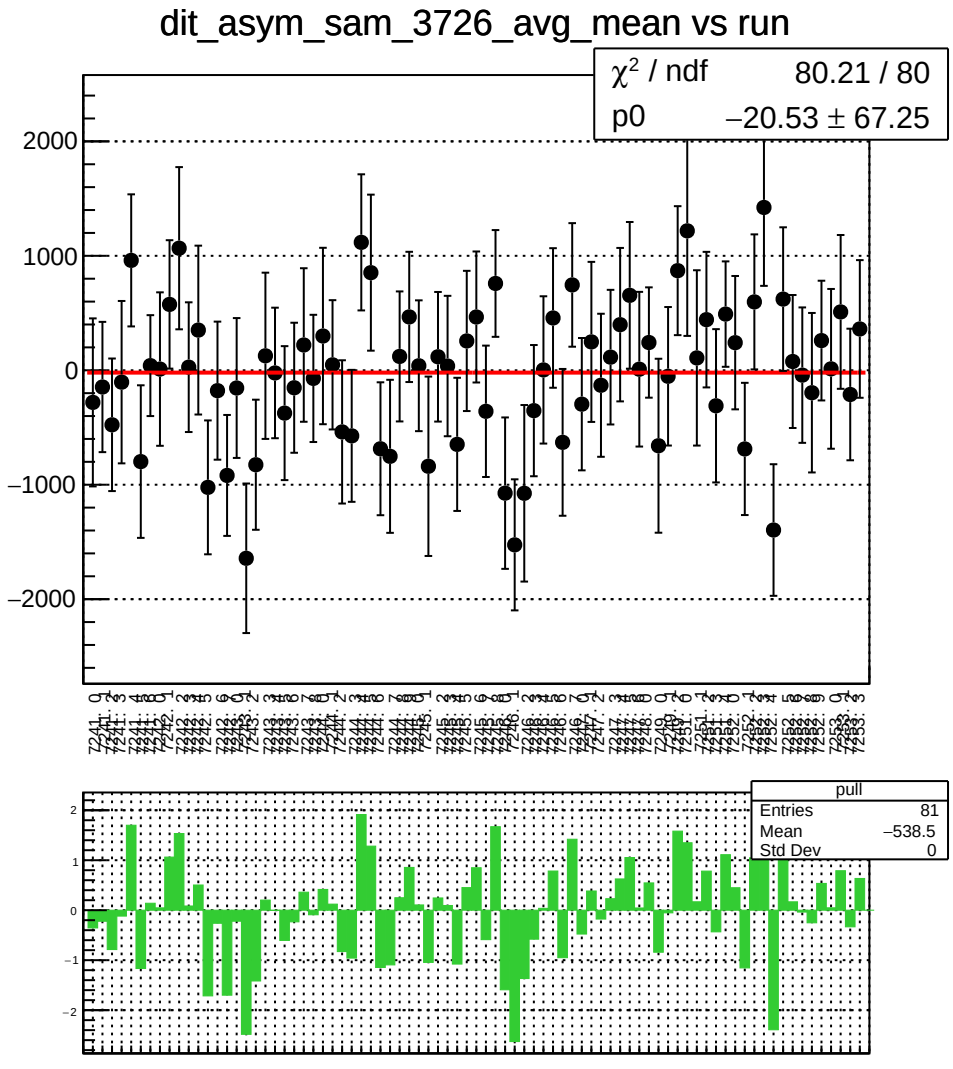

pull1D
Entries 81
Mean −0.004686
Std Dev 0.9944

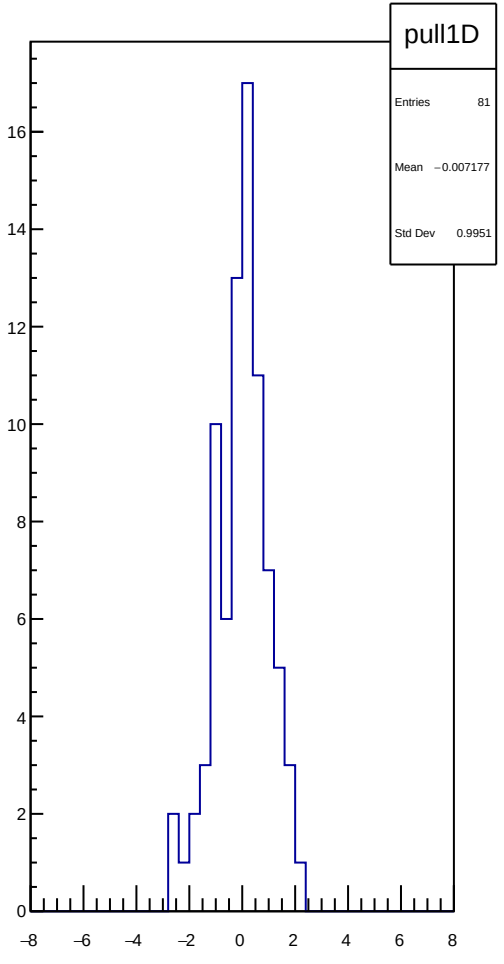

eigen_cor_asym_sam_3726_avg_rms vs run
χ^2 / ndf 8773 / 80
p0 47.01 ± 0.03788
70
65
60
55
50
45
40

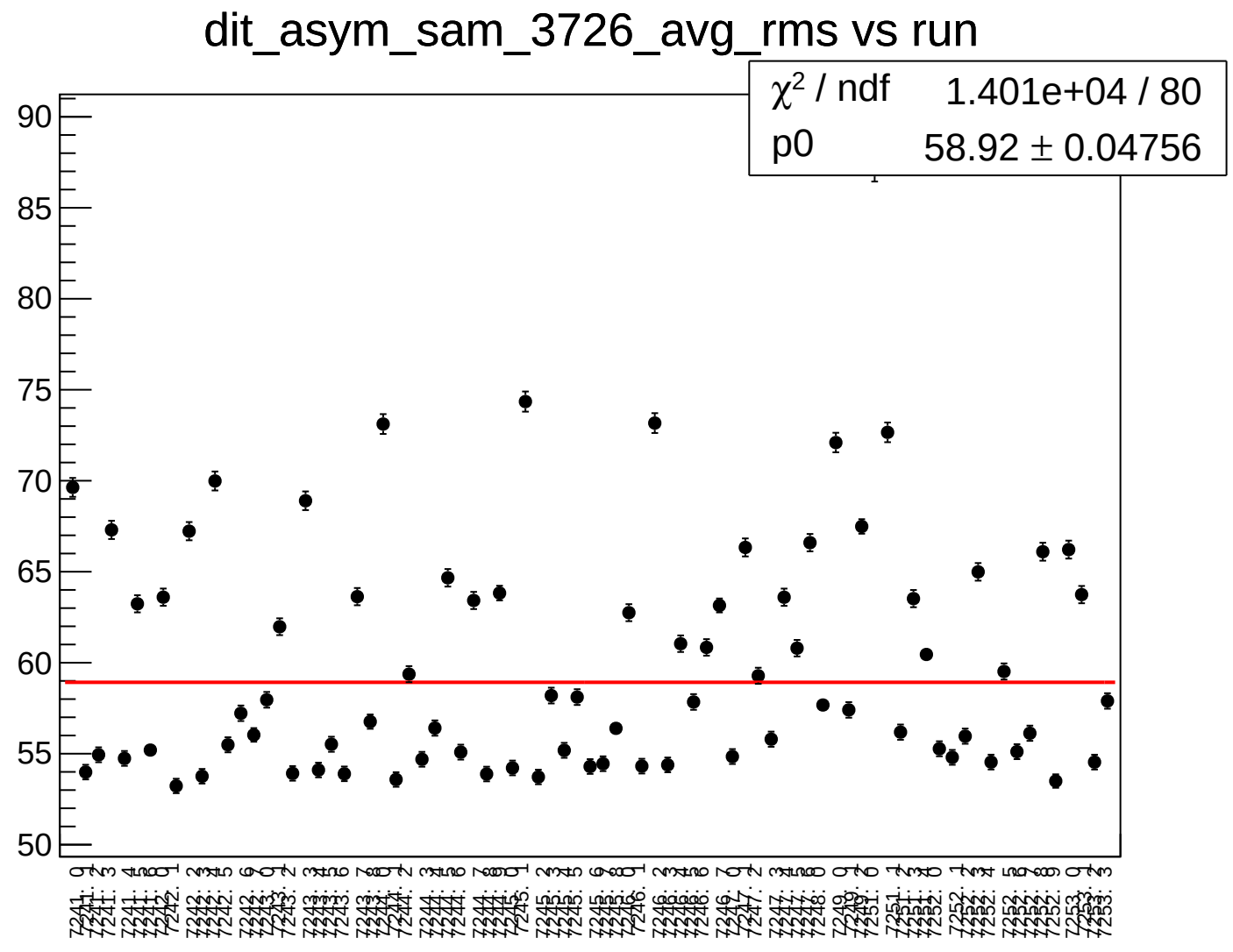

asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 88.55 / 80
p0 −742.9 ± 433.5
pull
Entries 81
Mean 177.4
Std Dev 0

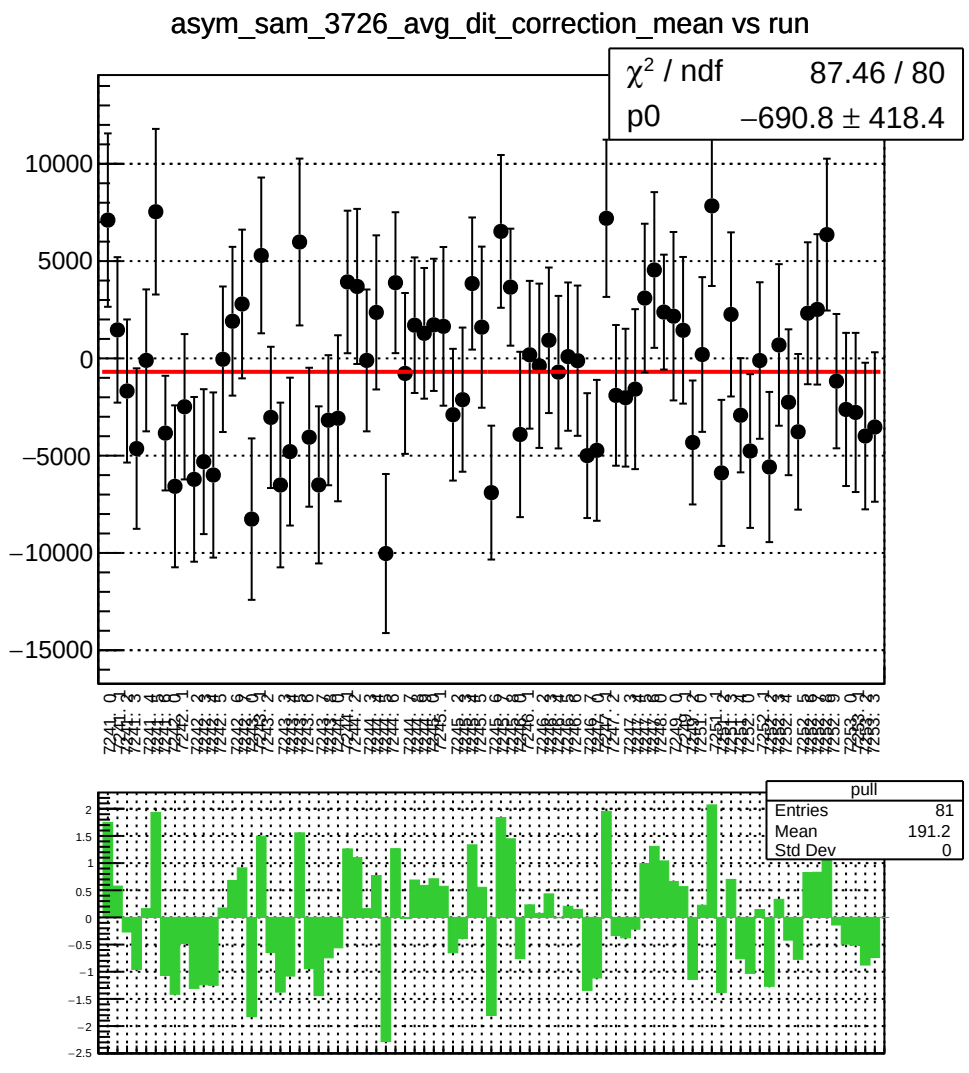

pull1D
Entries 81
Mean 0.008846
Std Dev 1.046

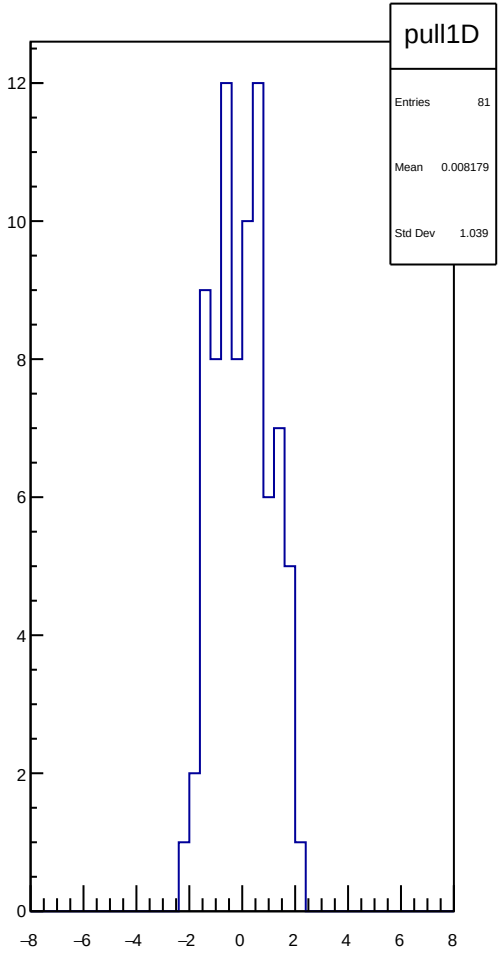

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.081e+04 / 80
p0 380.2 ± 0.3065
460
440
420
400
380
360
340
320

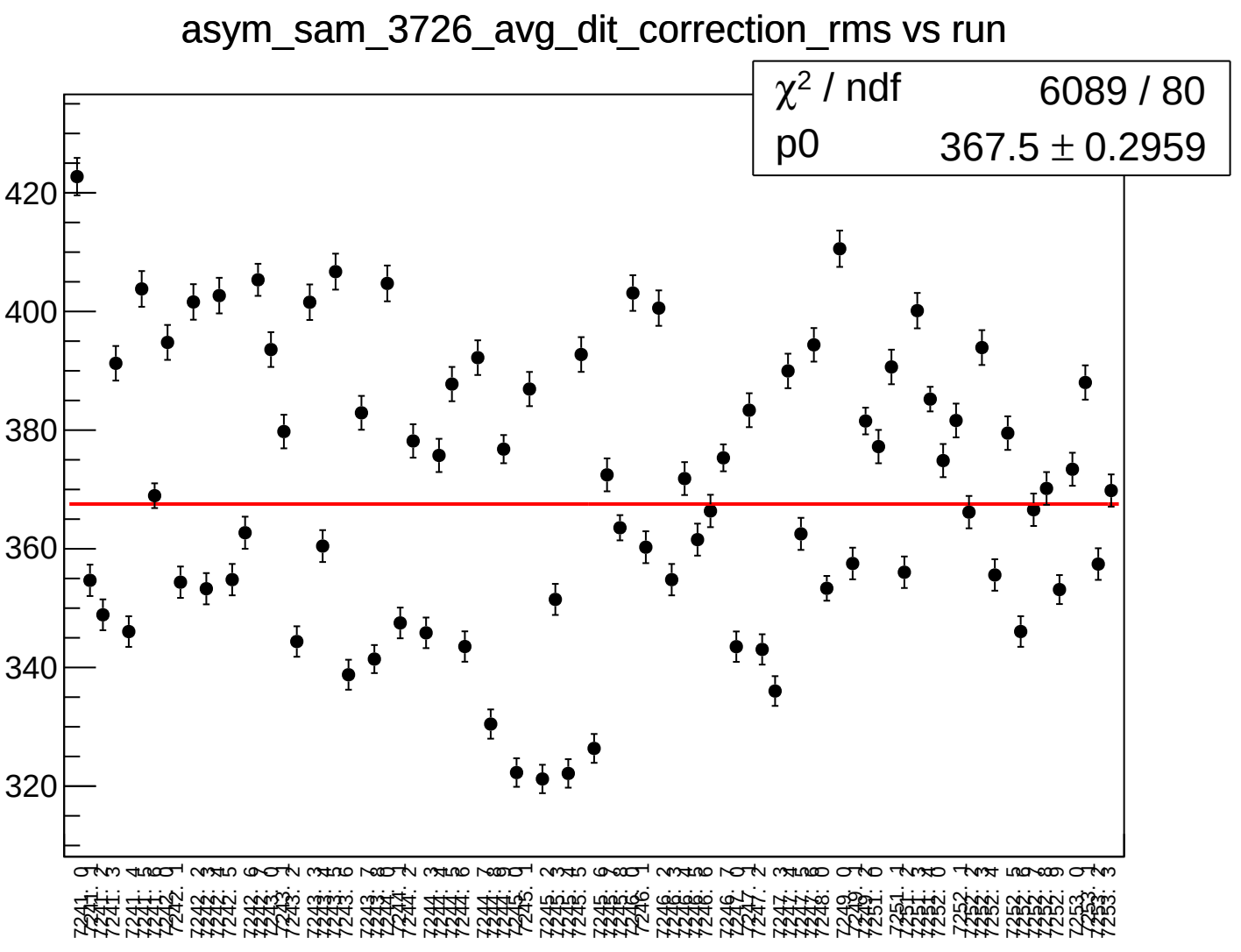

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 80.21 / 80
p0 −20.53 ± 67.25
2000
1000
0
−1000
−2000
pull
Entries 81
Mean −538.5
Std Dev 0
2
1
0
−1
−2

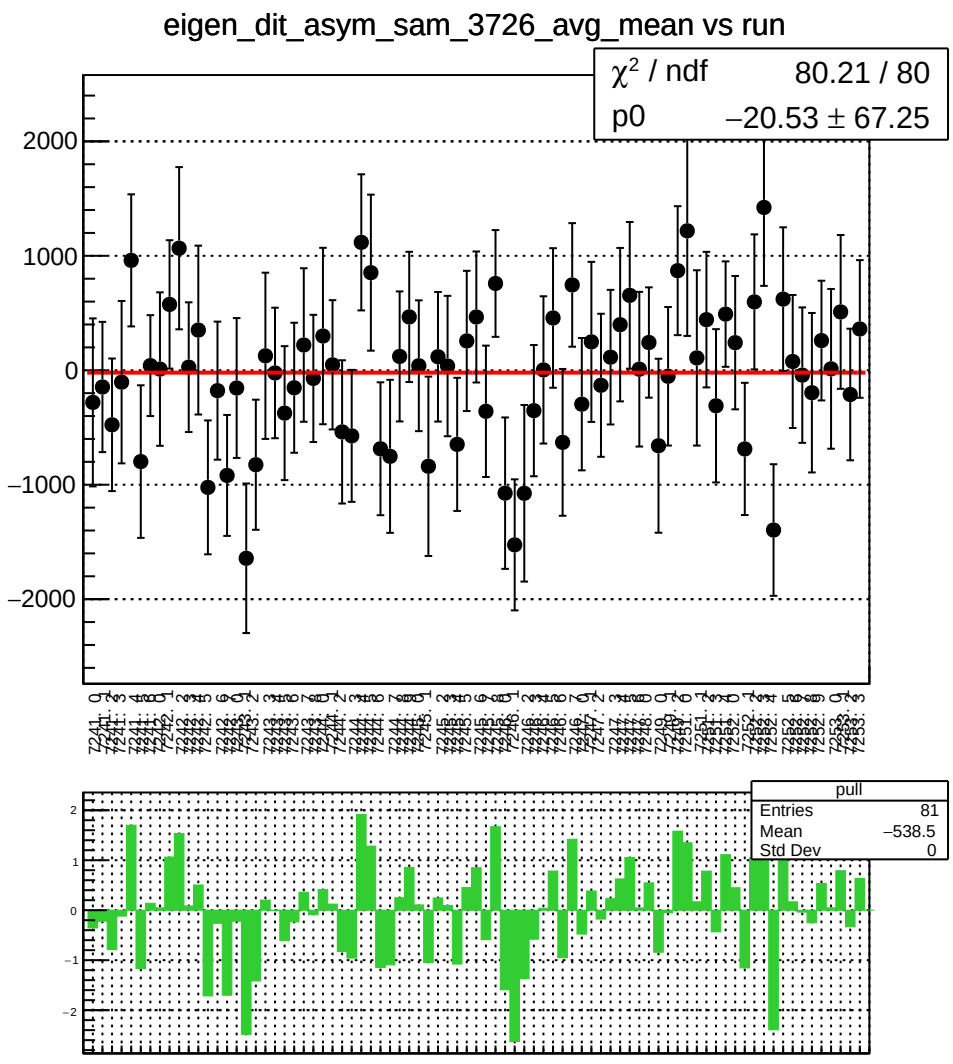

pull1D
Entries 81
Mean −0.007177
Std Dev 0.9951
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

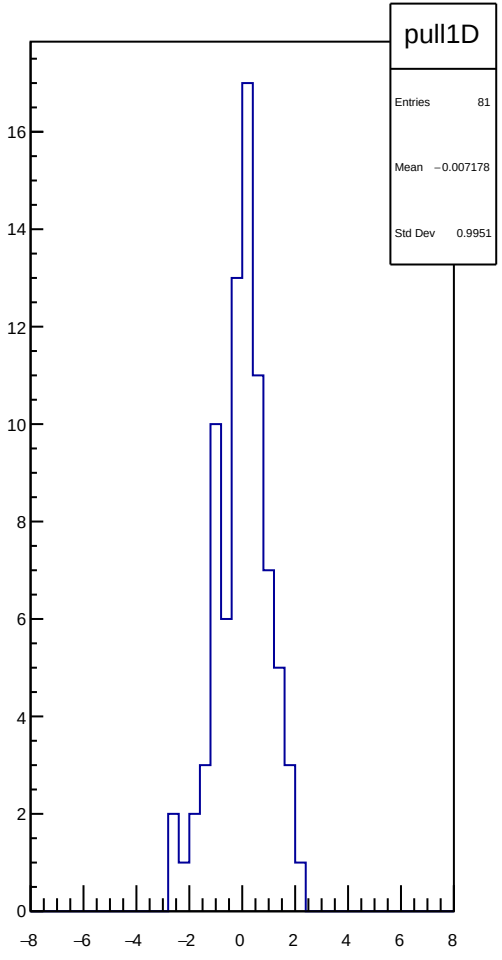

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 1.401e+04 / 80
p0 58.92 ± 0.04756
90
85
80
75
70
65
60
55
50

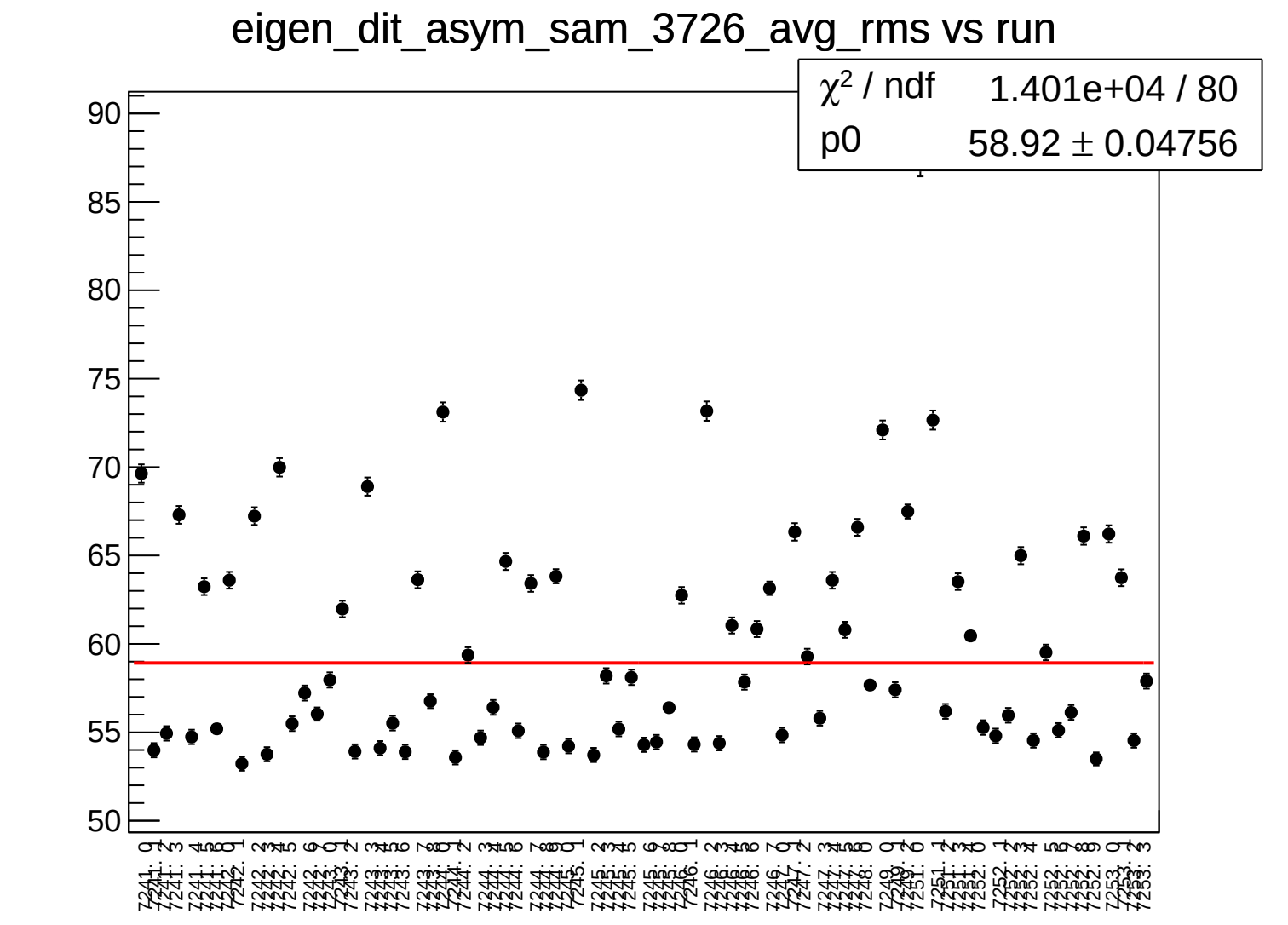

asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 87.46 / 80
p0 −690.8 ± 418.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean 191.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 81
Mean 0.008179
Std Dev 1.039
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

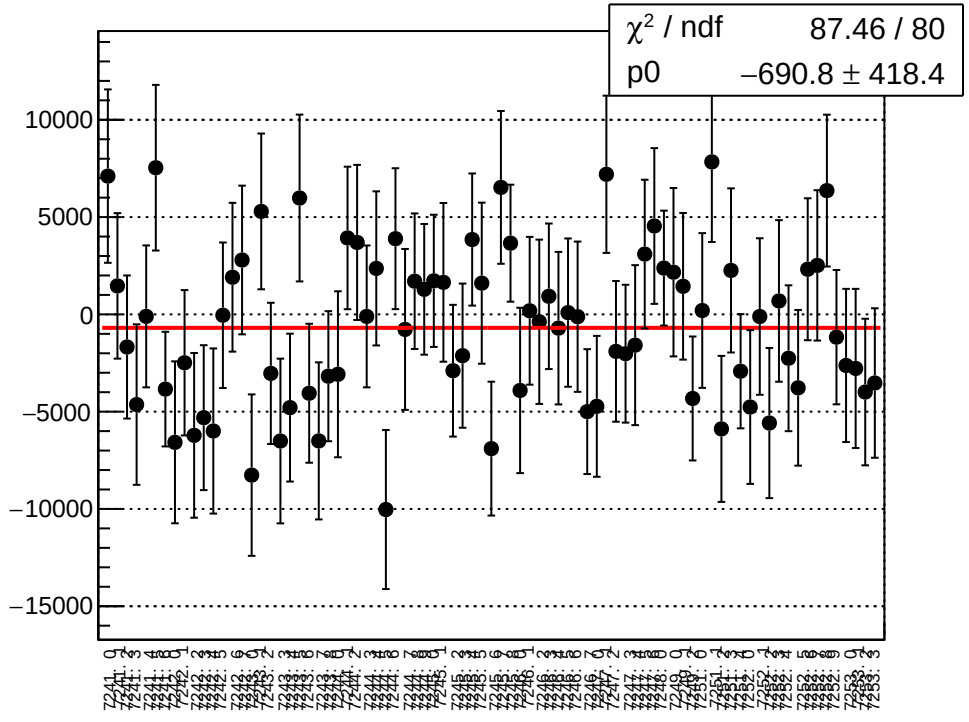

asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 6089 / 80
p0 367.5 ± 0.2959
420
400
380
360
340
320

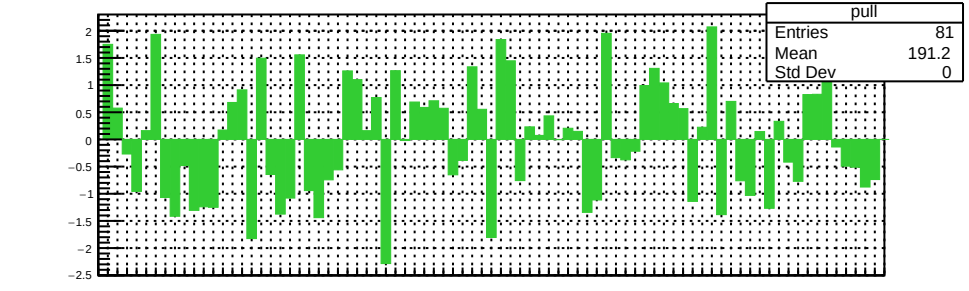

eigen_dit_asym_sam_3726_avg_mean vs run
χ² / ndf 80.21 / 80
p0 −20.53 ± 67.25
2000
1000
0
−1000
−2000
pull
Entries 81
Mean −538.5
Std Dev 0
2
1
0
−1
−2

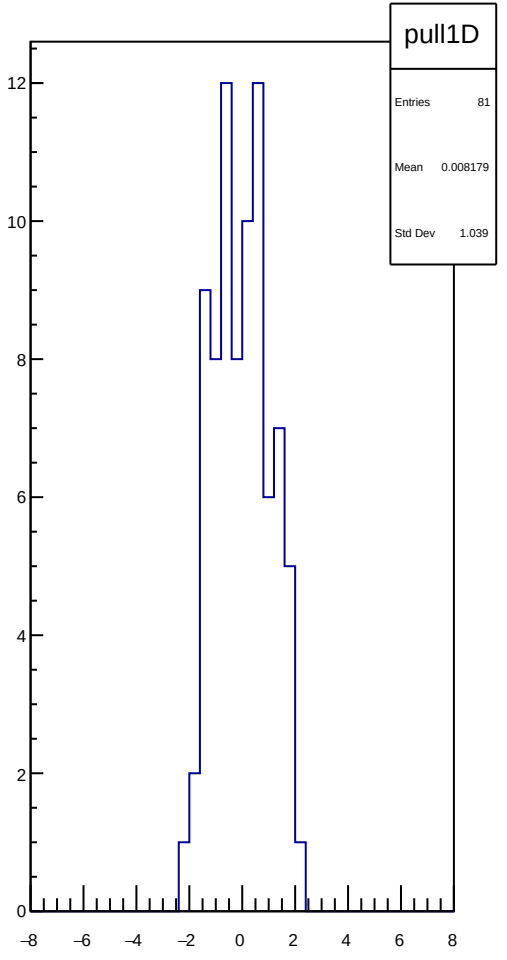

pull1D
Entries 81
Mean −0.007178
Std Dev 0.9951
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

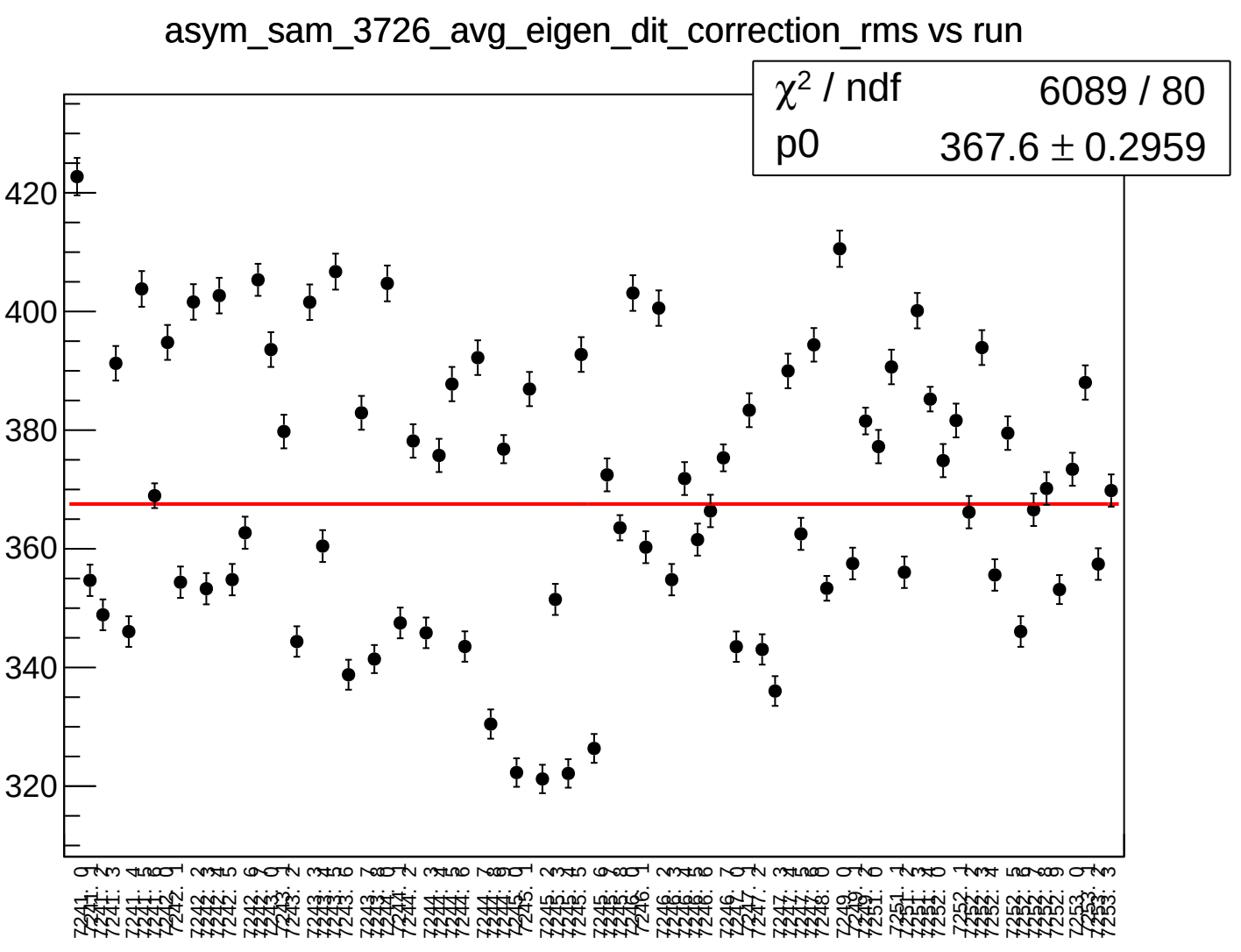

eigen_dit_asym_sam_3726_avg_rms vs run
χ² / ndf 1.401e+04 / 80
p0 58.92 ± 0.04756
90
85
80
75
70
65
60
55
50

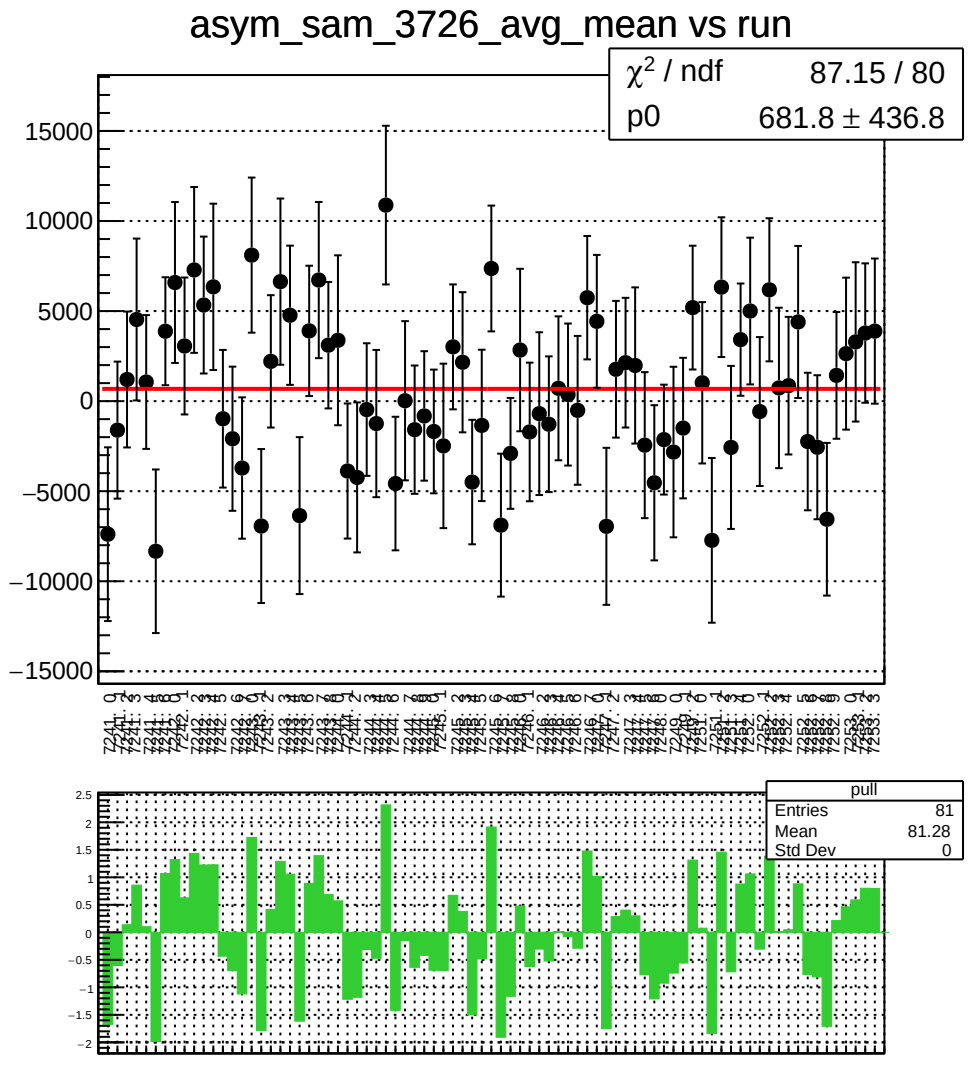
asym_sam_3726_avg_eigen_dit_correction_mean vs run

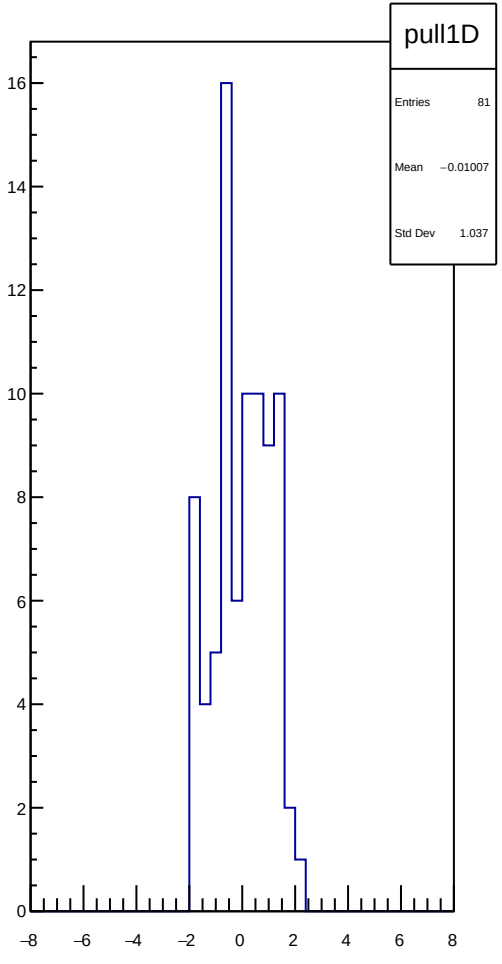


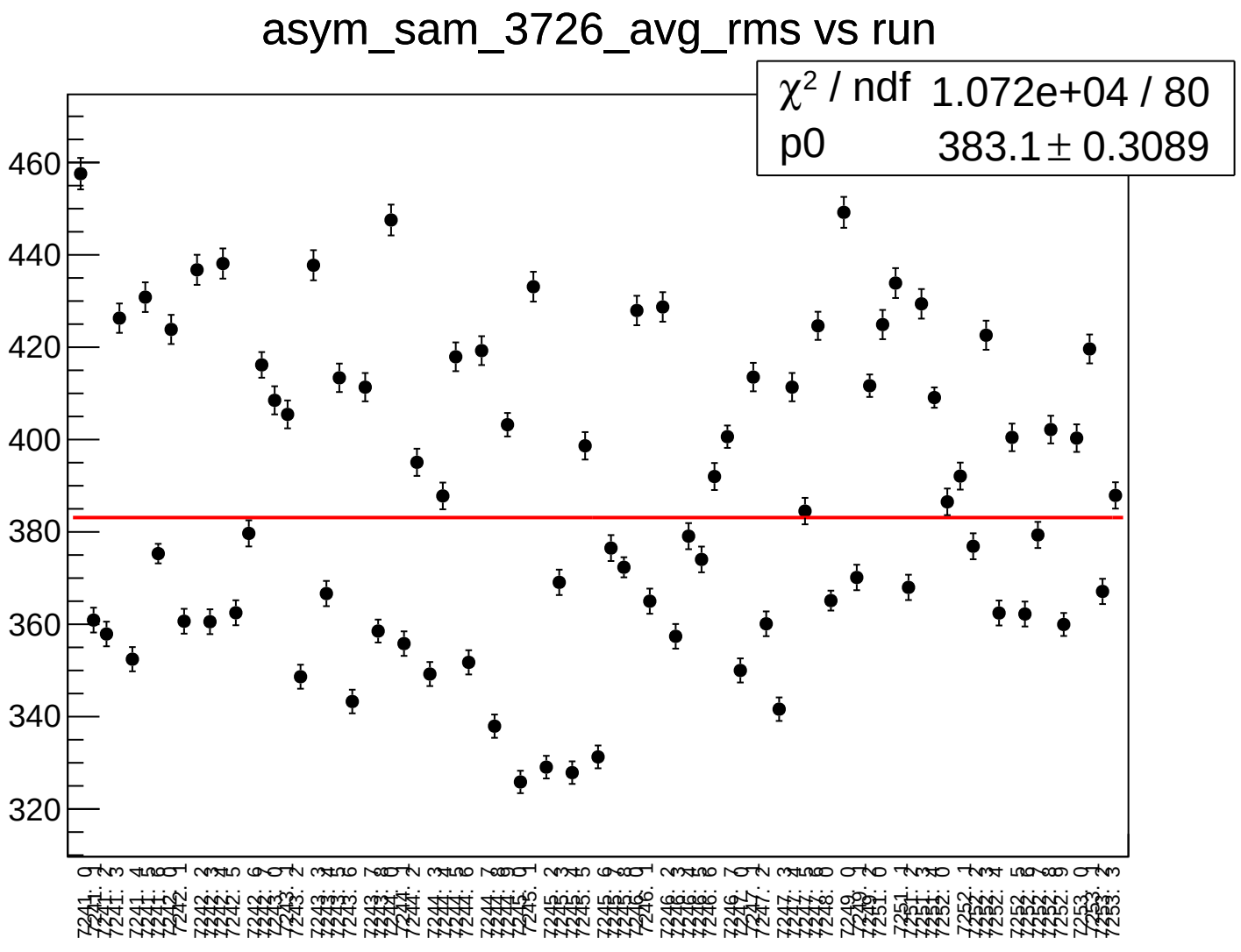


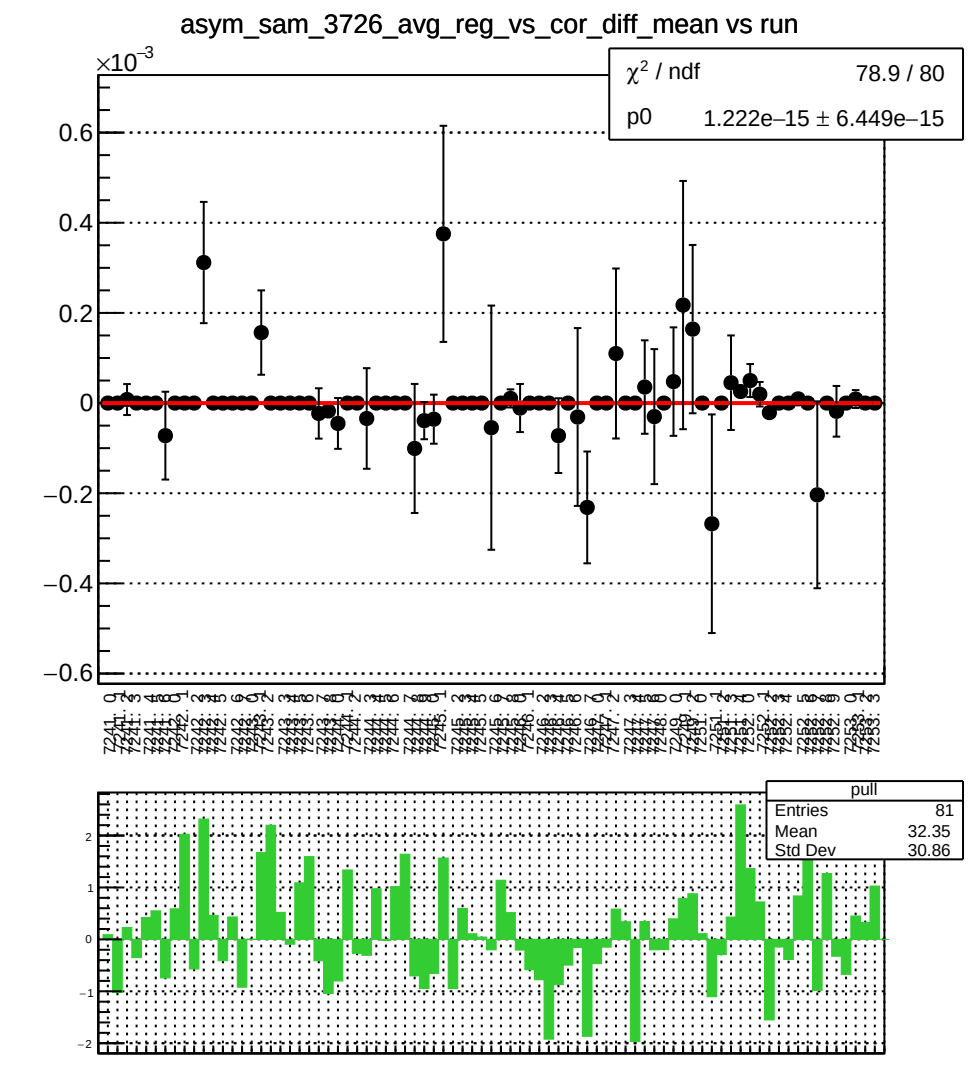


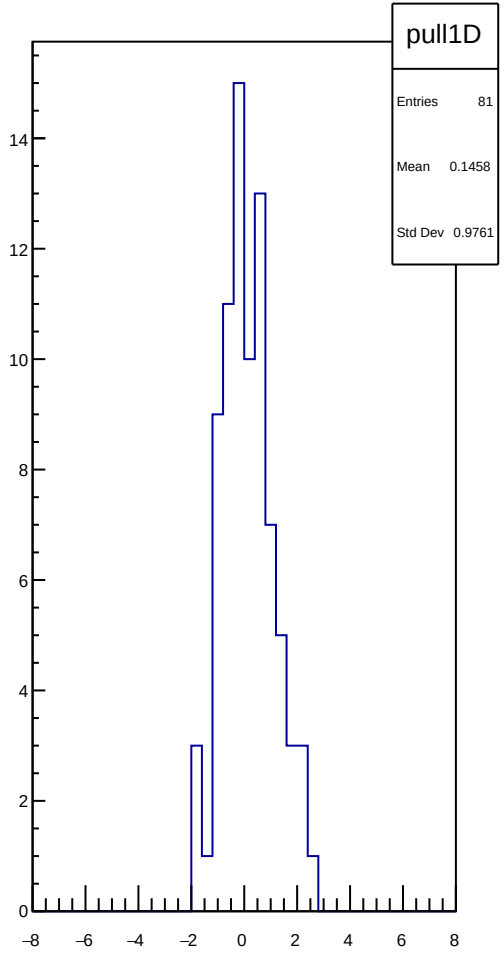

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 6089 / 80
p0 367.6 ± 0.2959
420
400
380
360
340
320

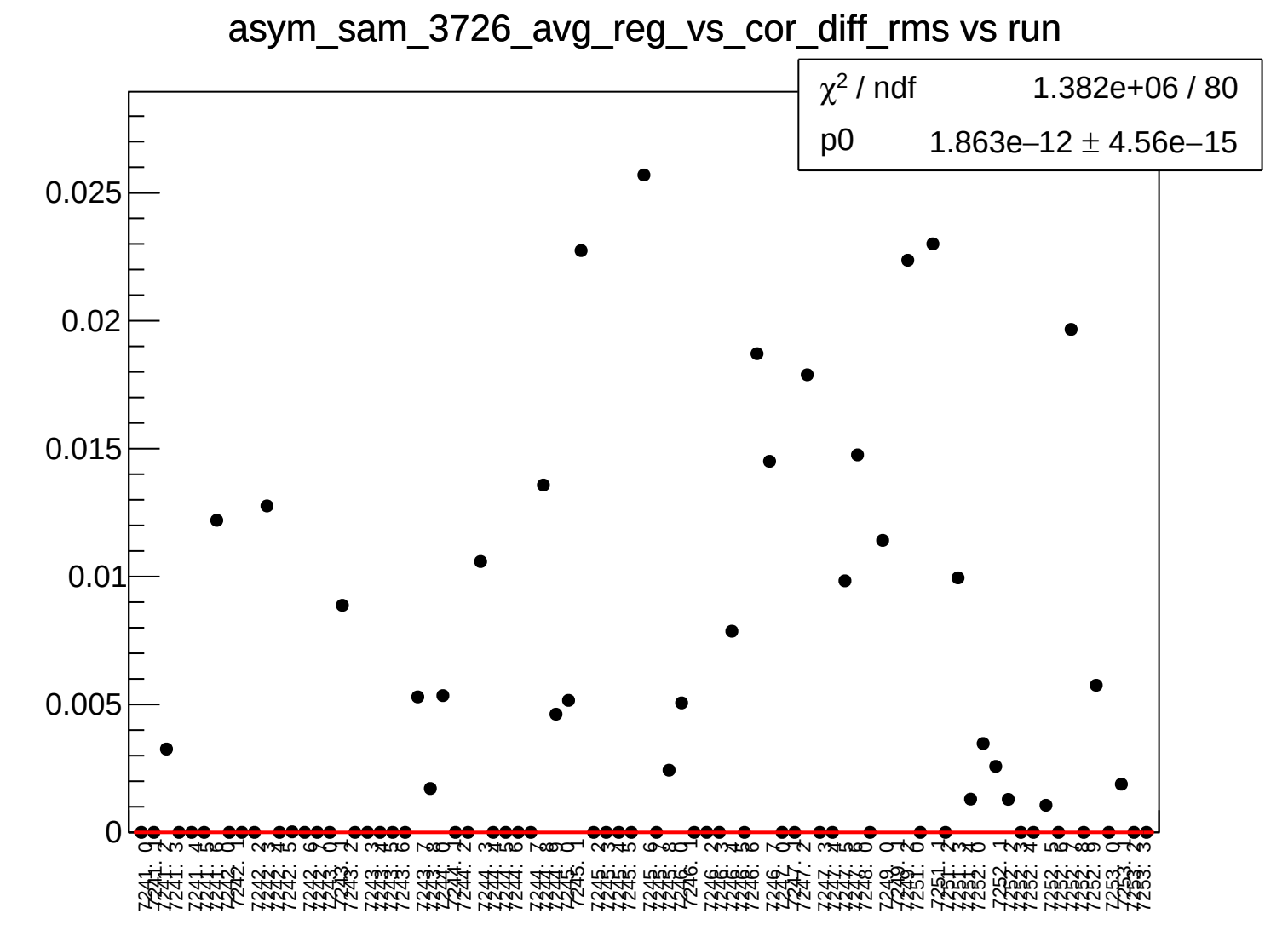

asym_sam_3726_avg_mean vs run
χ² / ndf 87.15 / 80
p0 681.8 ± 436.8
pull
Entries 81
Mean 81.28
Std Dev 0

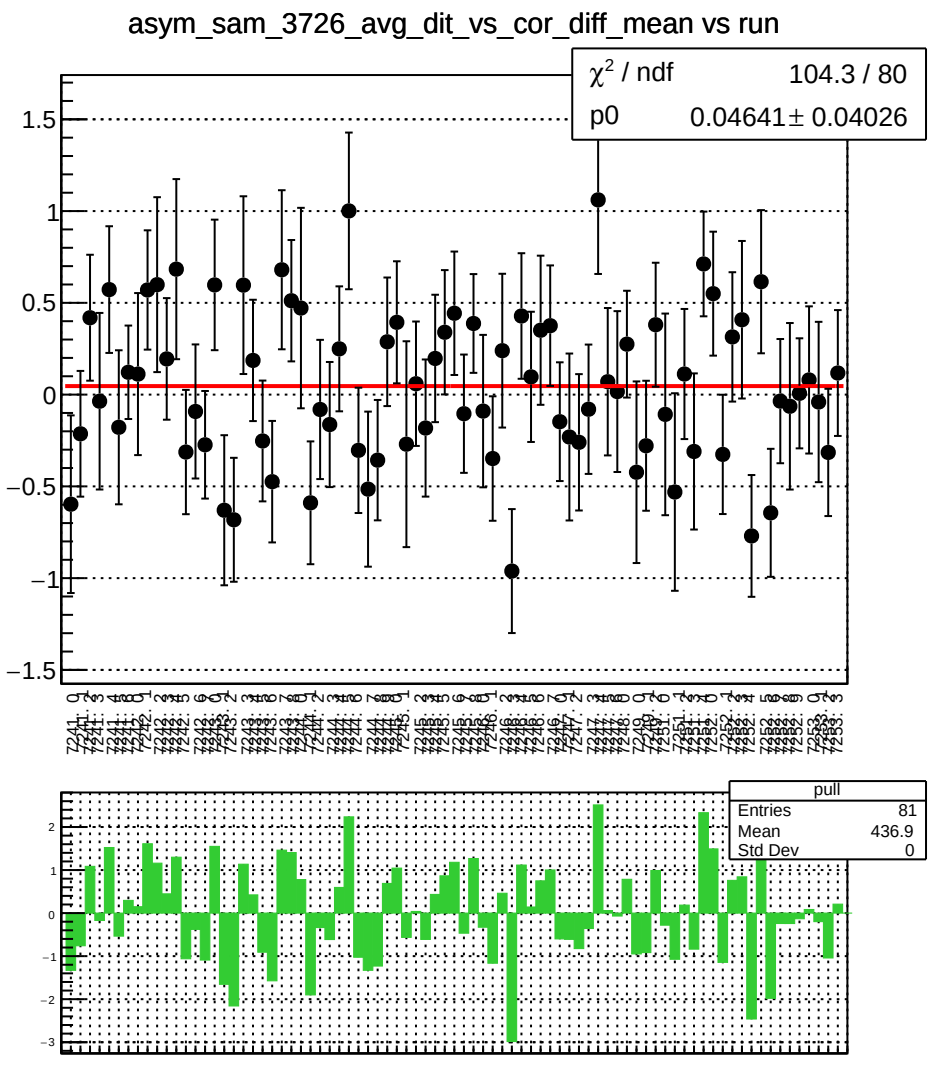

pull1D
Entries 81
Mean −0.01007
Std Dev 1.037

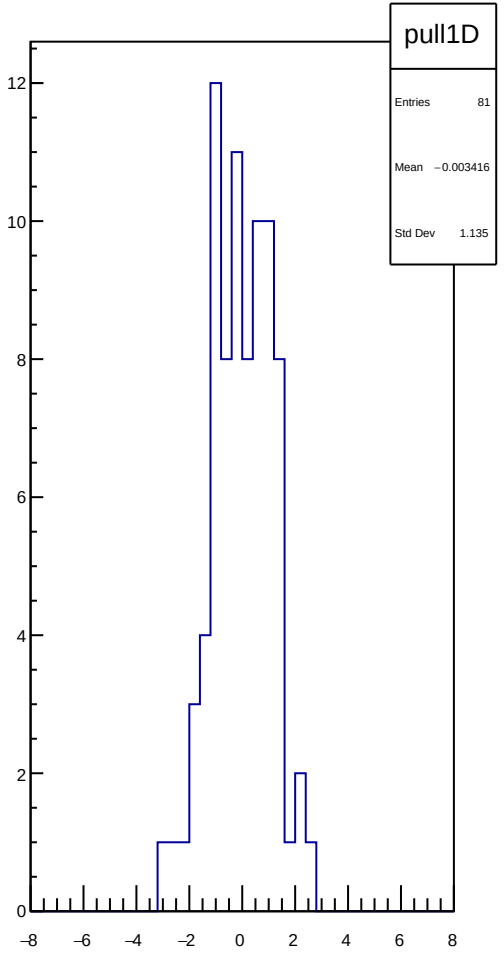

asym_sam_3726_avg_rms vs run
χ² / ndf 1.072e+04 / 80
p0 383.1 ± 0.3089
460
440
420
400
380
360
340
320

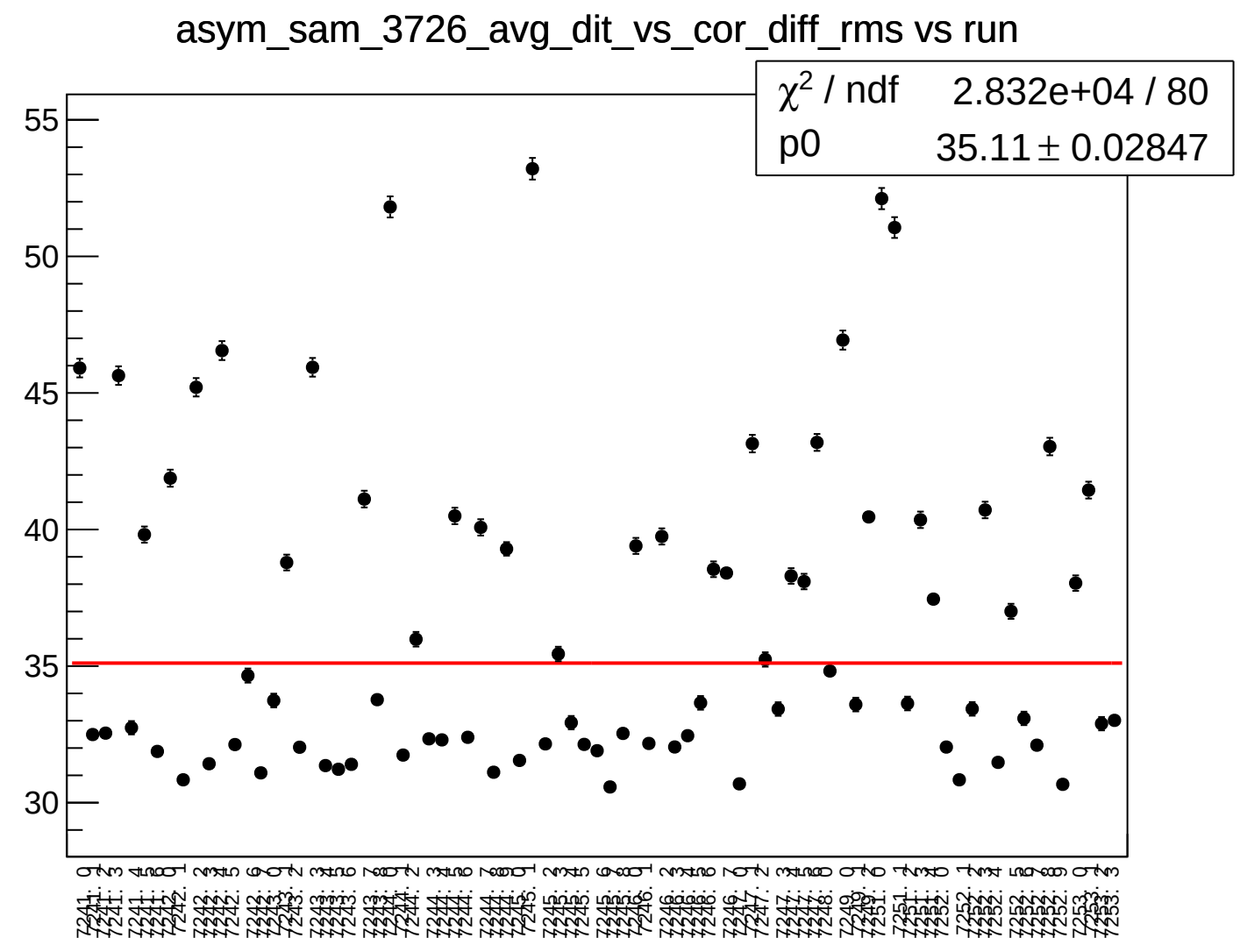

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 78.9 / 80
p0 1.222e−15 ± 6.449e−15
pull
Entries 81
Mean 32.35
Std Dev 30.86

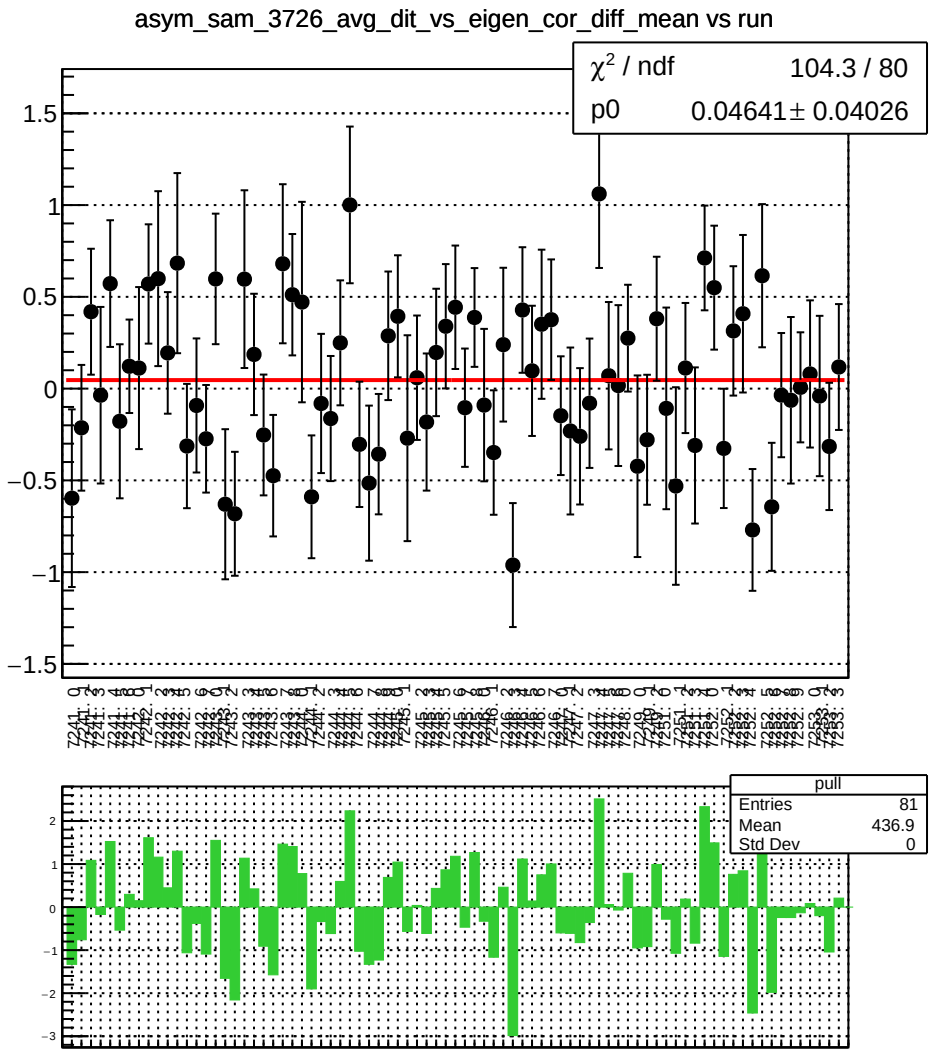

pull1D
Entries 81
Mean 0.1458
Std Dev 0.9761

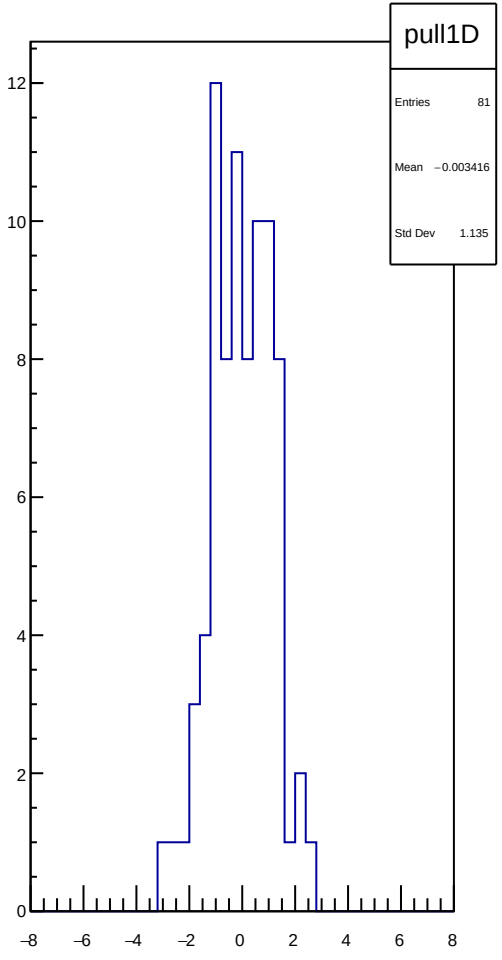

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.382e+06 / 80
p0 1.863e−12 ± 4.56e−15
0.025
0.02
0.015
0.01
0.005
0

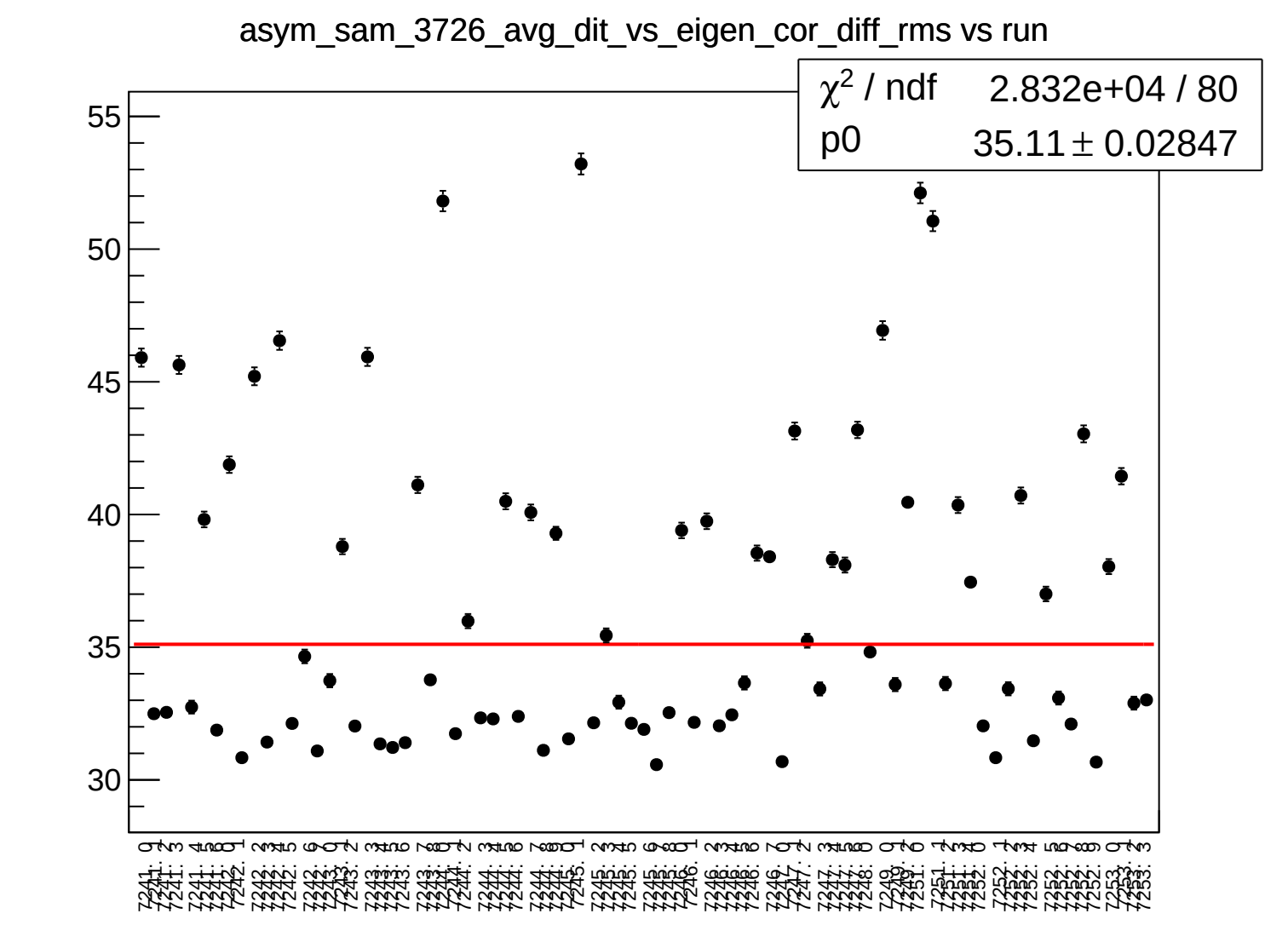

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 104.3 / 80
p0 0.04641 ± 0.04026
pull
Entries 81
Mean 436.9
Std Dev 0

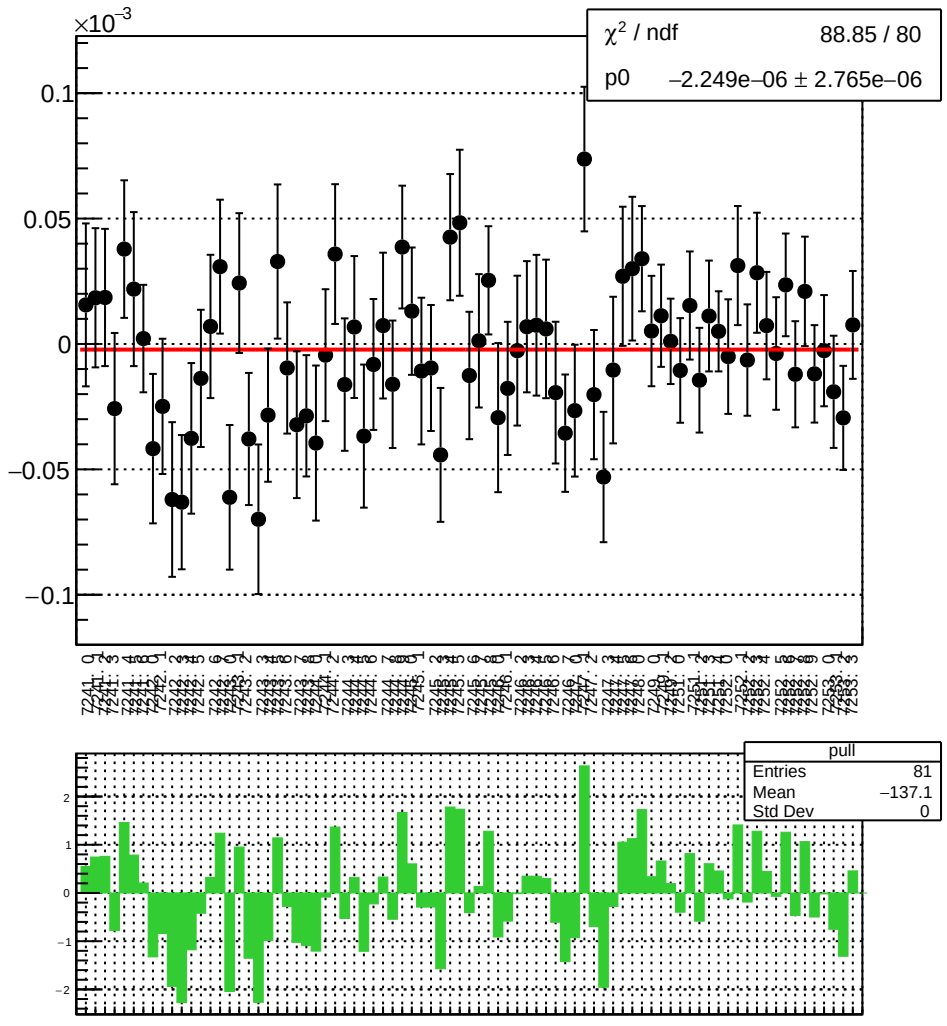

pull1D
Entries 81
Mean −0.003416
Std Dev 1.135

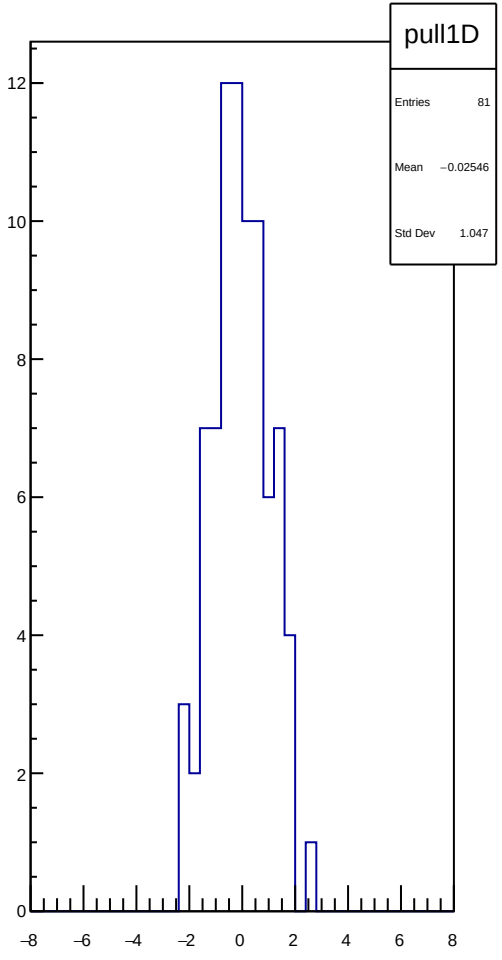

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.832e+04 / 80
p0 35.11 ± 0.02847
55
50
45
40
35
30

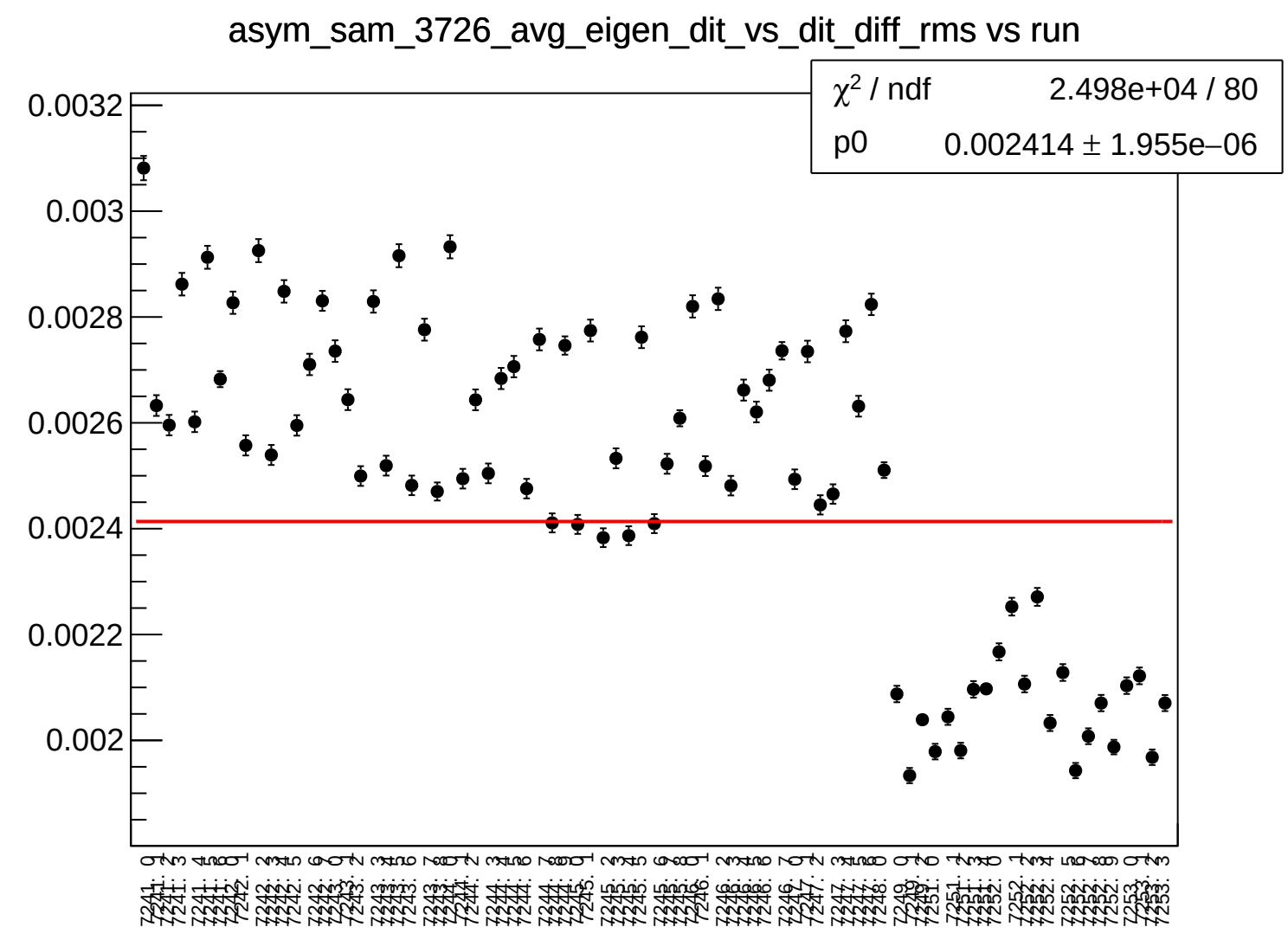

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.3 / 80
p0 0.04641 ± 0.04026
pull
Entries 81
Mean 436.9
Std Dev 0

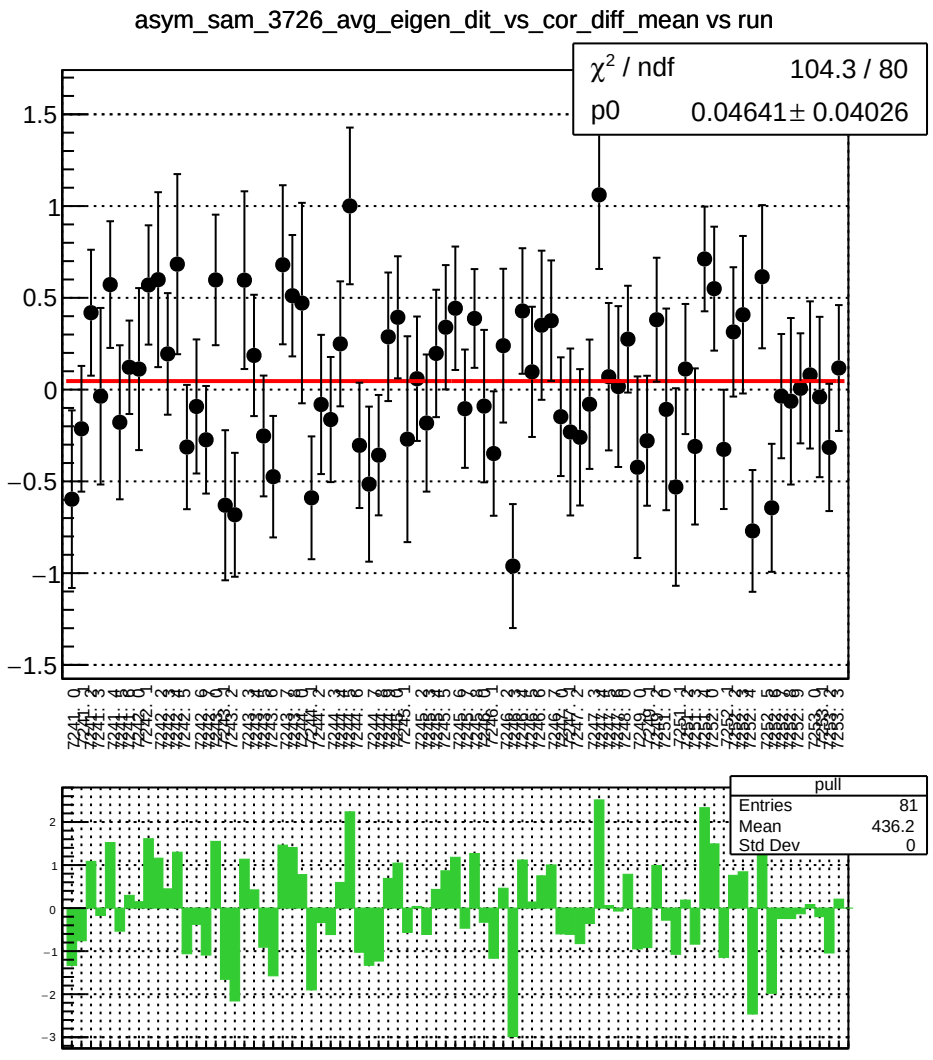

pull1D
Entries 81
Mean −0.003416
Std Dev 1.135

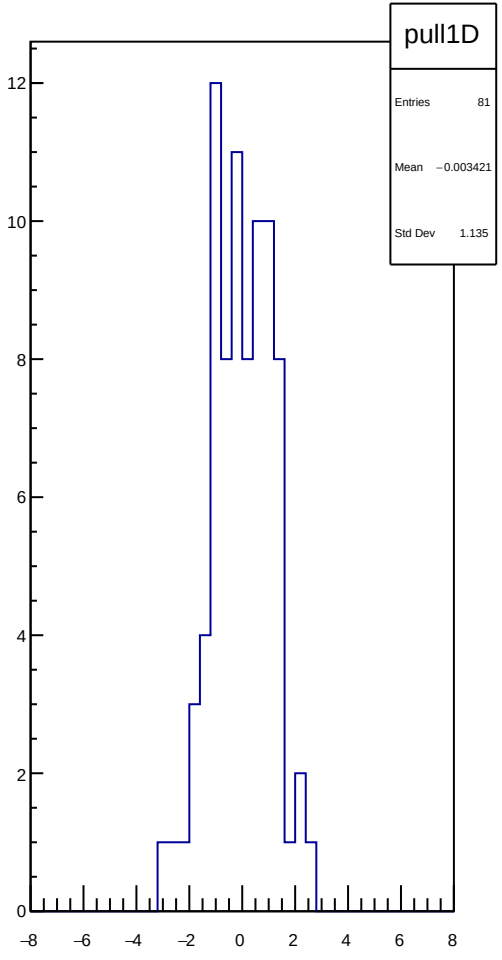

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.832e+04 / 80
p0 35.11 ± 0.02847
55
50
45
40
35
30

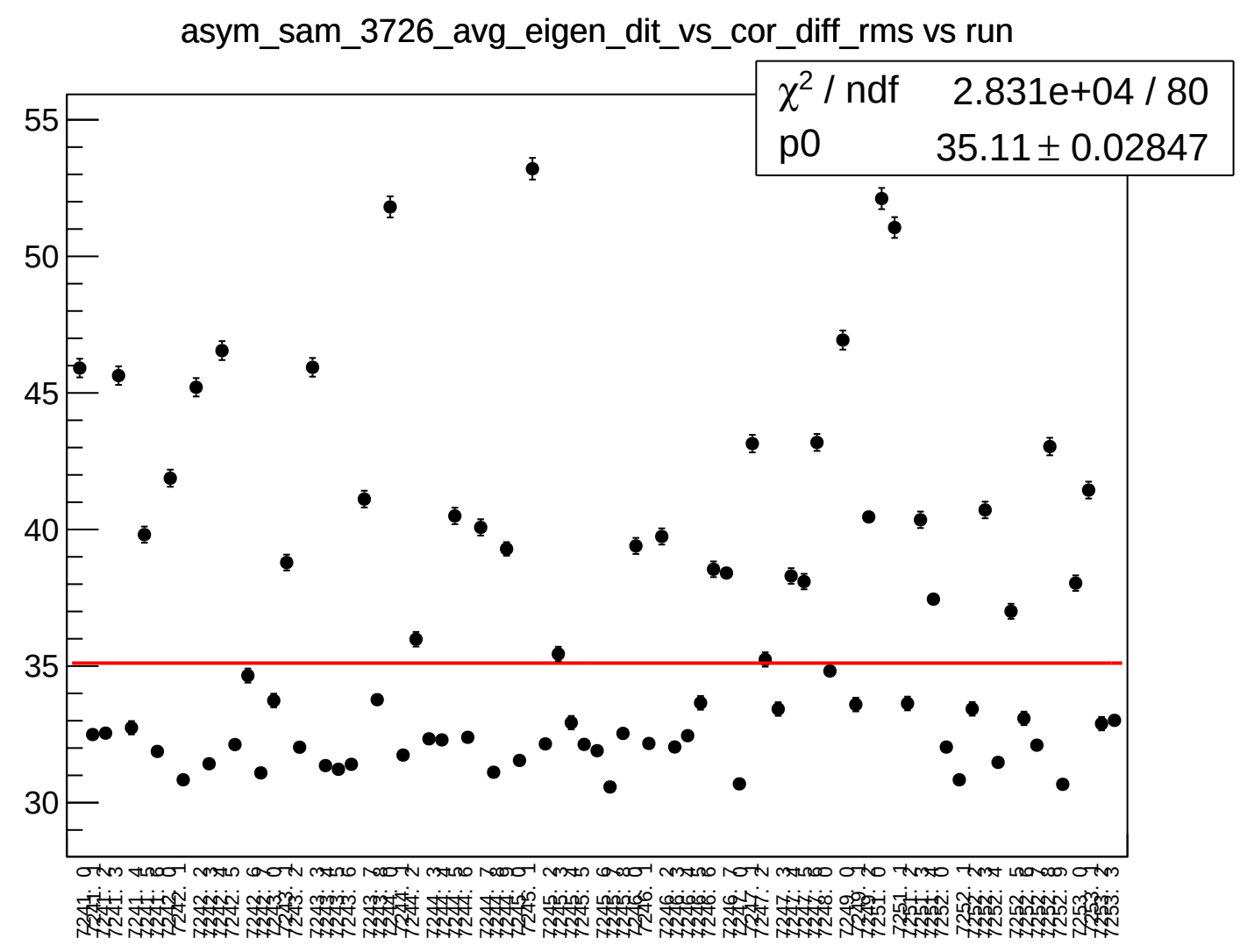

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.85 / 80
p0 −2.249e−06 ± 2.765e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 81
Mean −137.1
Std Dev 0
2
1
0
−1
−2

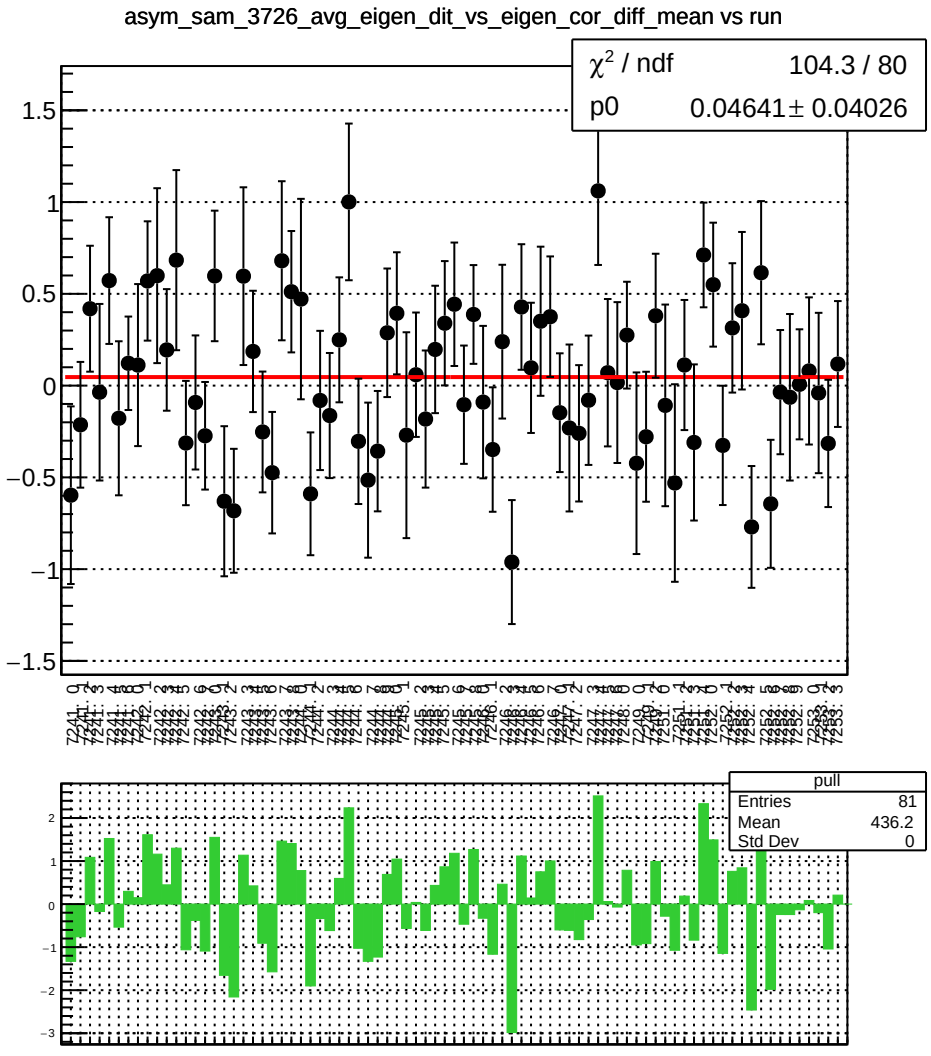

pull1D
Entries 81
Mean −0.02546
Std Dev 1.047
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

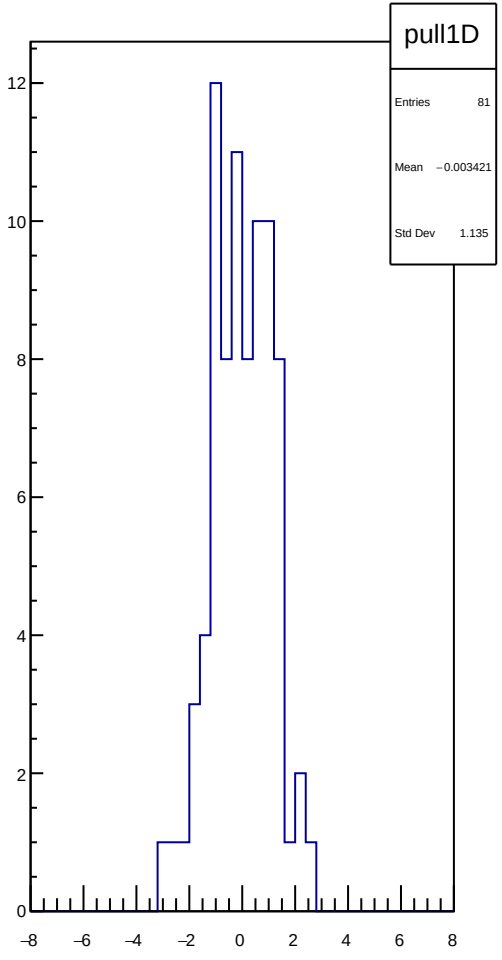

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.498e+04 / 80
p0 0.002414 ± 1.955e−06
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002

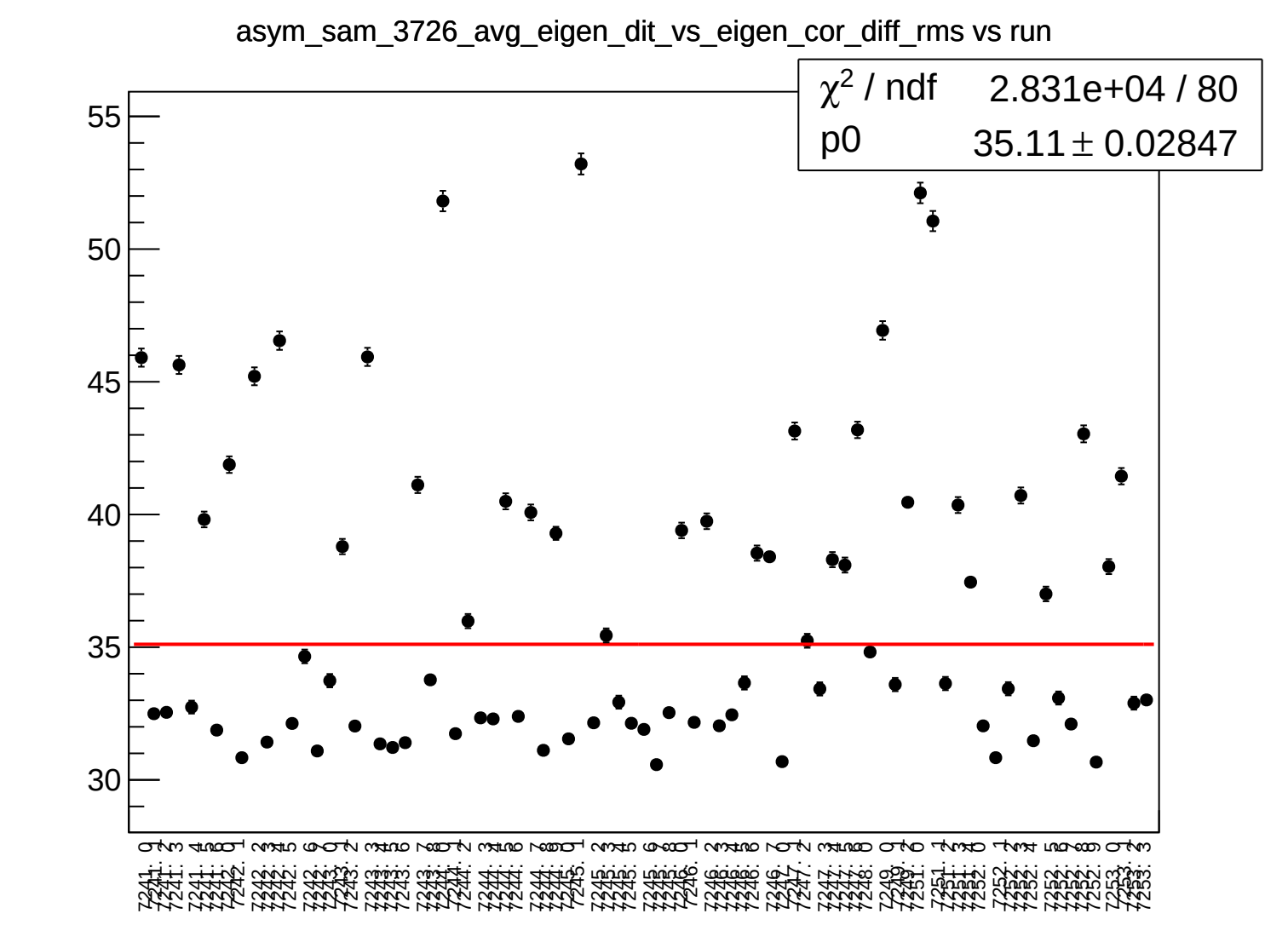

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.3 / 80
p0 0.04641 ± 0.04026
pull
Entries 81
Mean 436.2
Std Dev 0

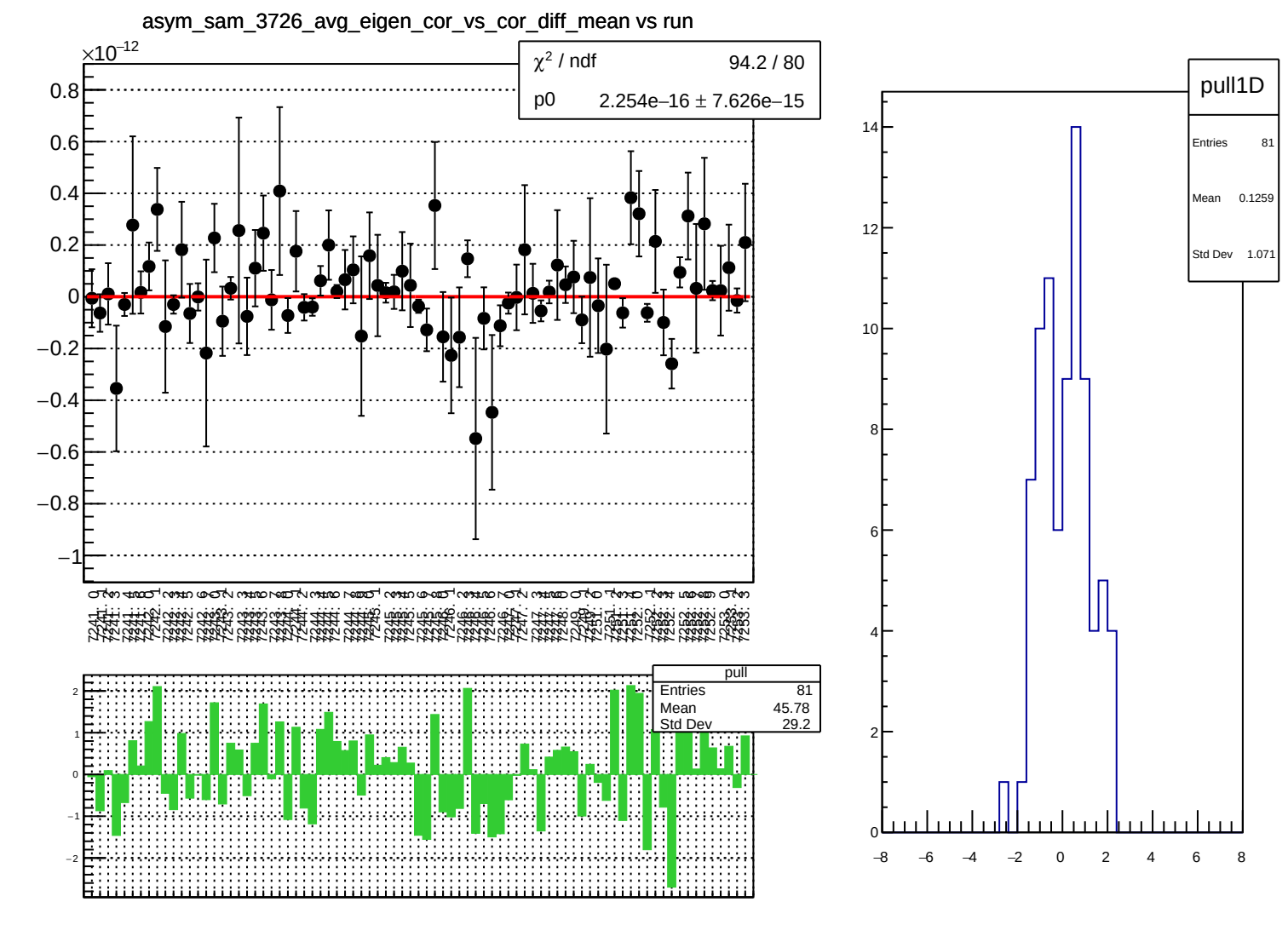

pull1D
Entries 81
Mean −0.003421
Std Dev 1.135

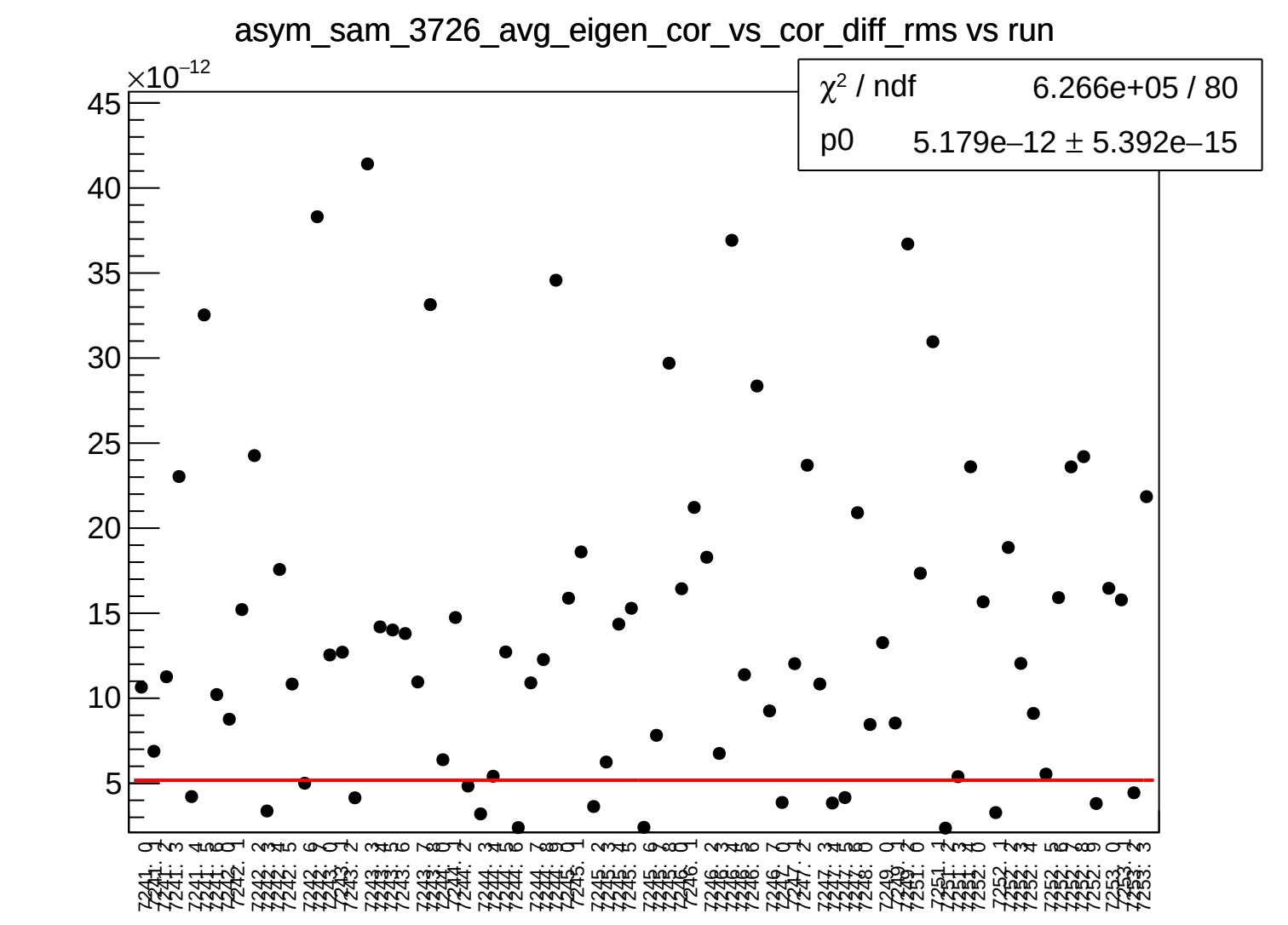

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.831e+04 / 80
p0 35.11 ± 0.02847
55
50
45
40
35
30

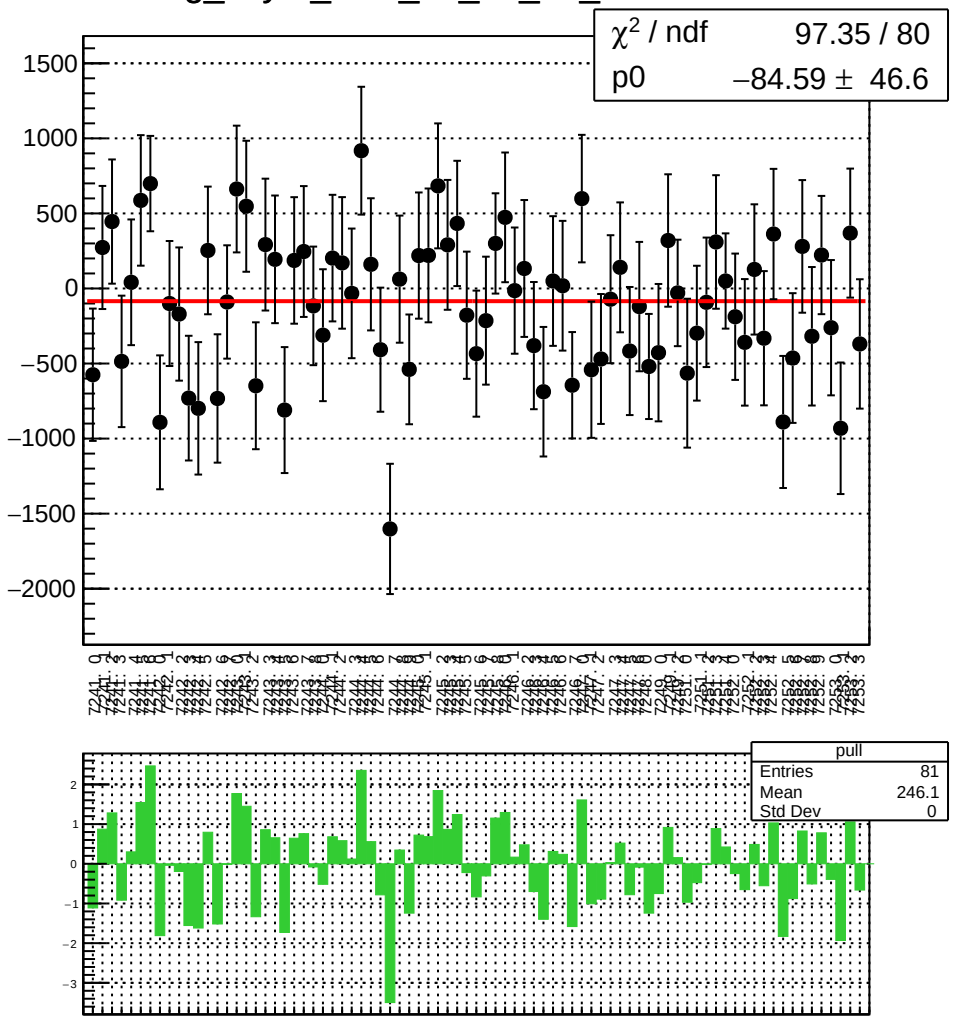

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.3 / 80
p0 0.04641 ± 0.04026
pull
Entries 81
Mean 436.2
Std Dev 0

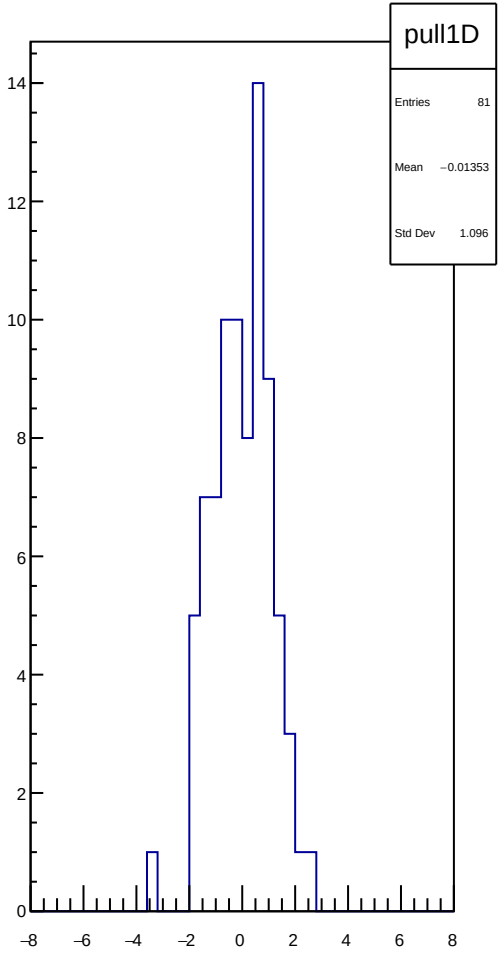

pull1D
Entries 81
Mean −0.003421
Std Dev 1.135

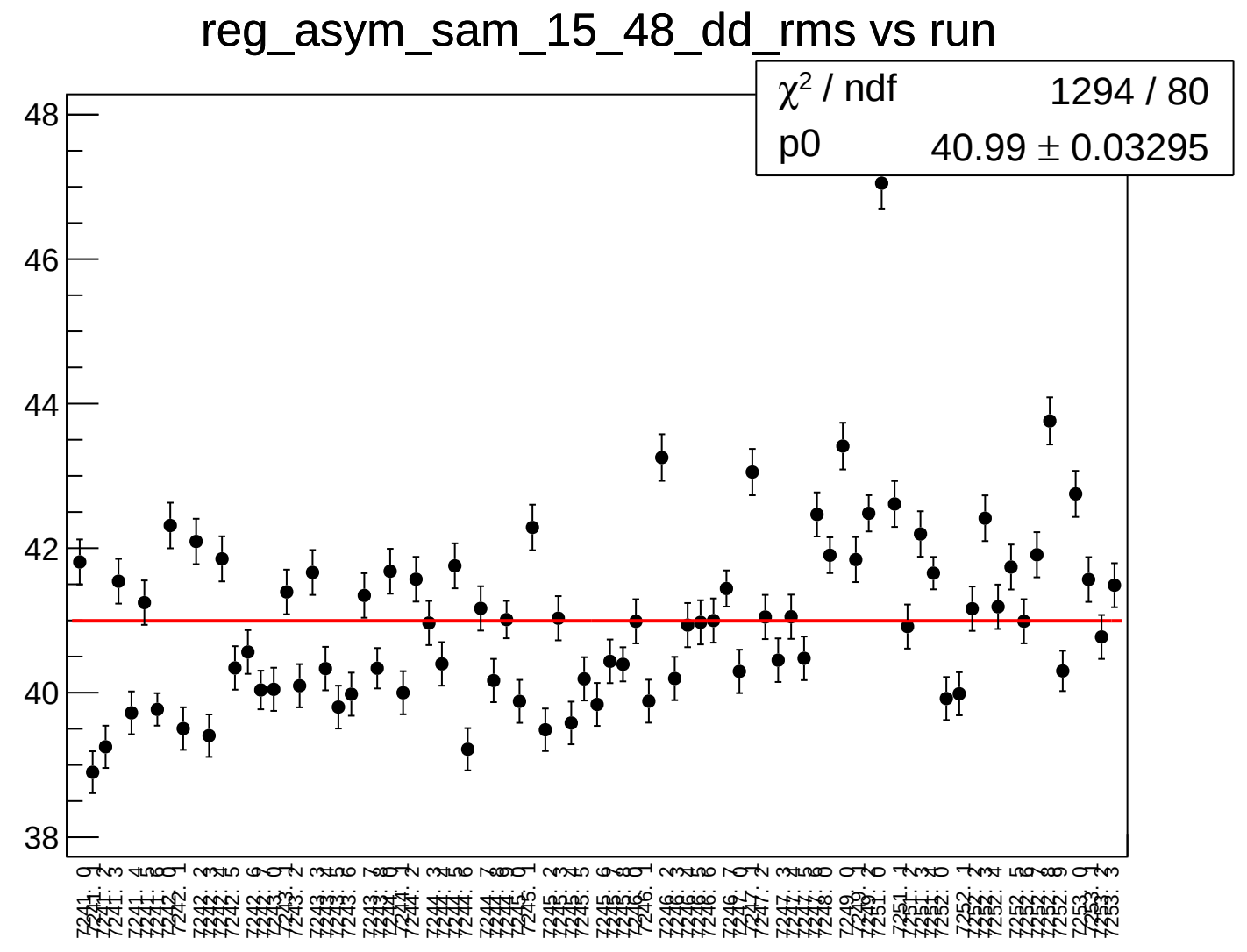

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.831e+04 / 80
p0 35.11 ± 0.02847
55
50
45
40
35
30

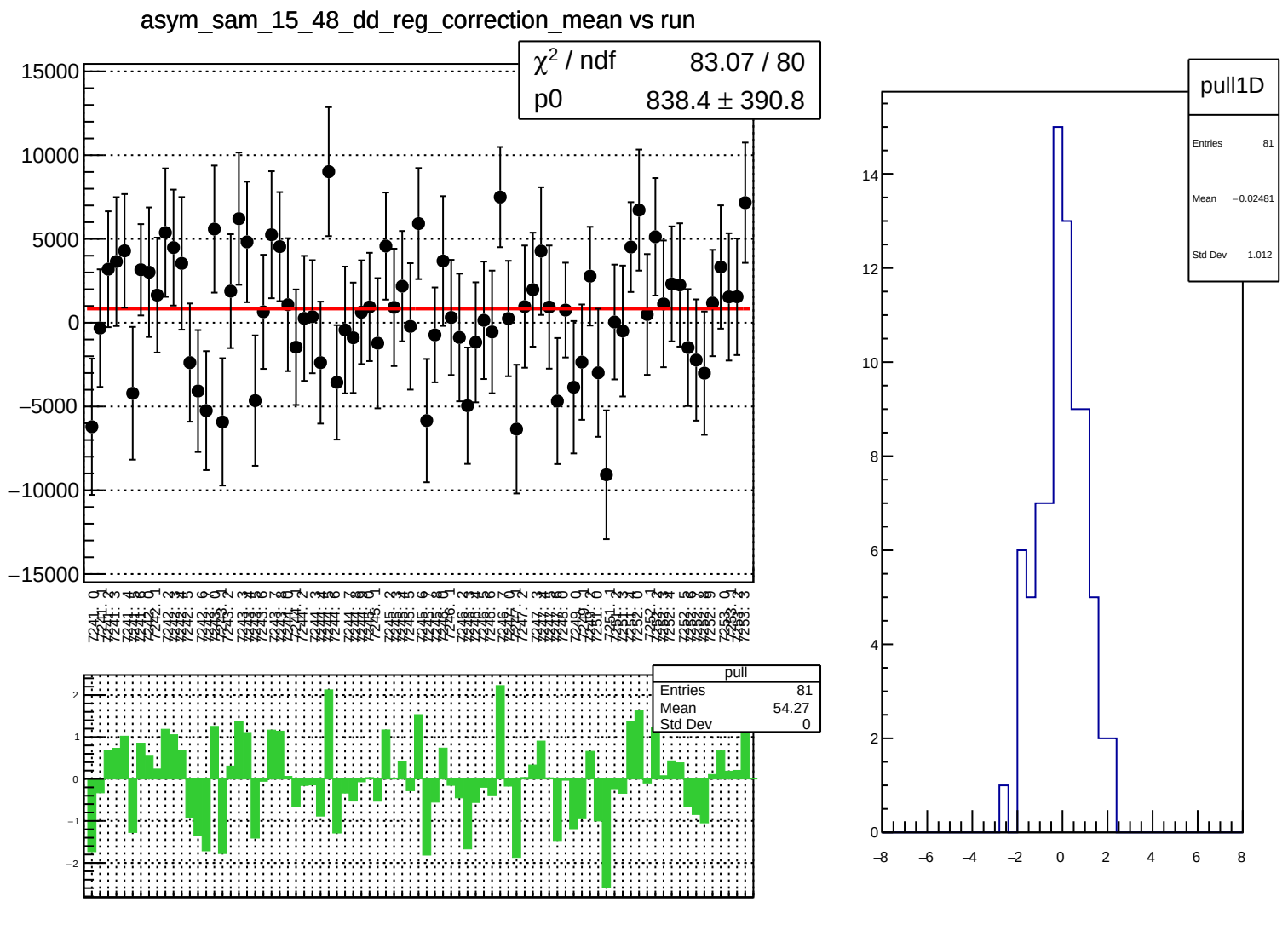

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.2 / 80
p0 2.254e−16 ± 7.626e−15
pull
Entries 81
Mean 45.78
Std Dev 29.2
pull1D
Entries 81
Mean 0.1259
Std Dev 1.071

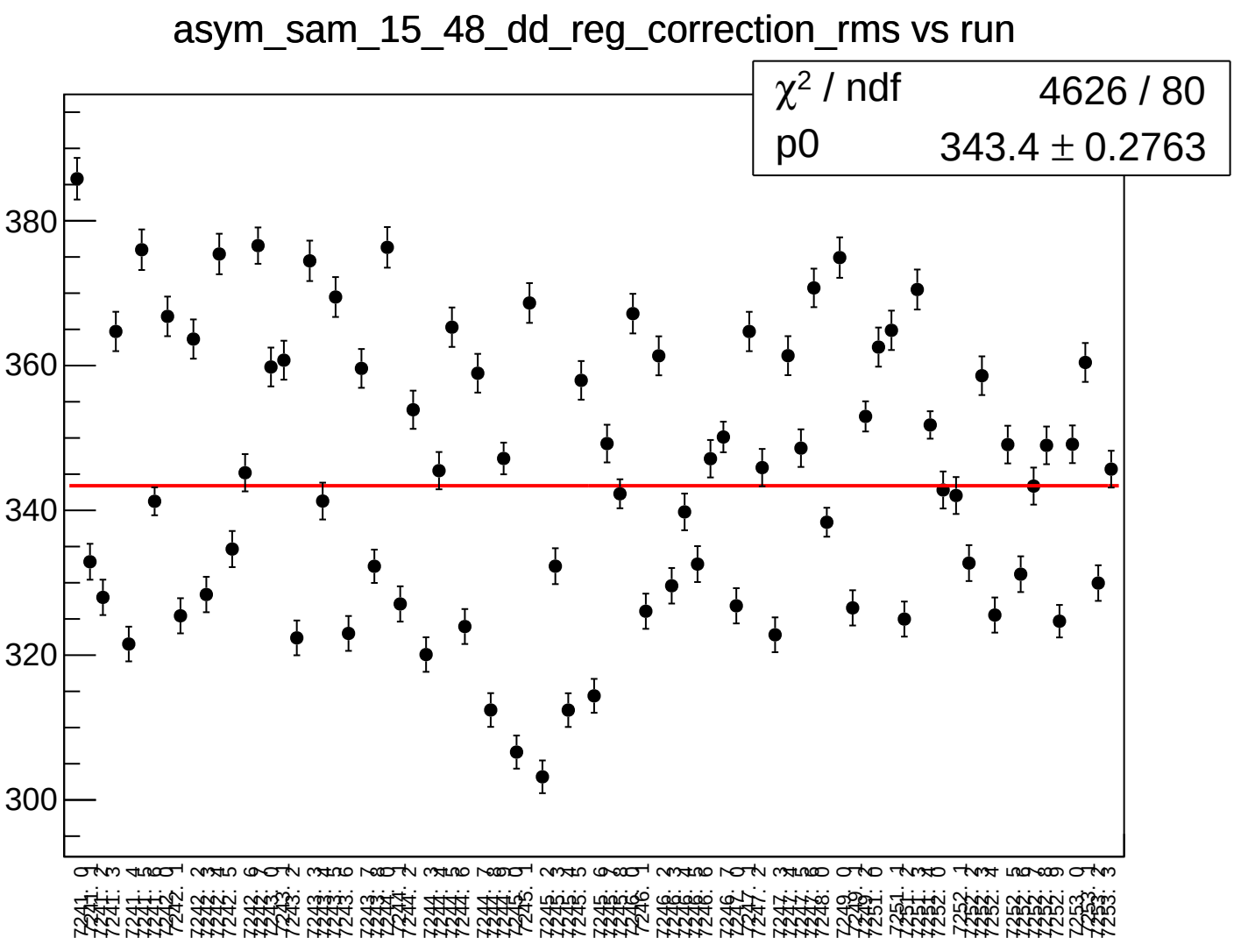

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.266e+05 / 80
p0 5.179e−12 ± 5.392e−15
45
40
35
30
25
20
15
10
5

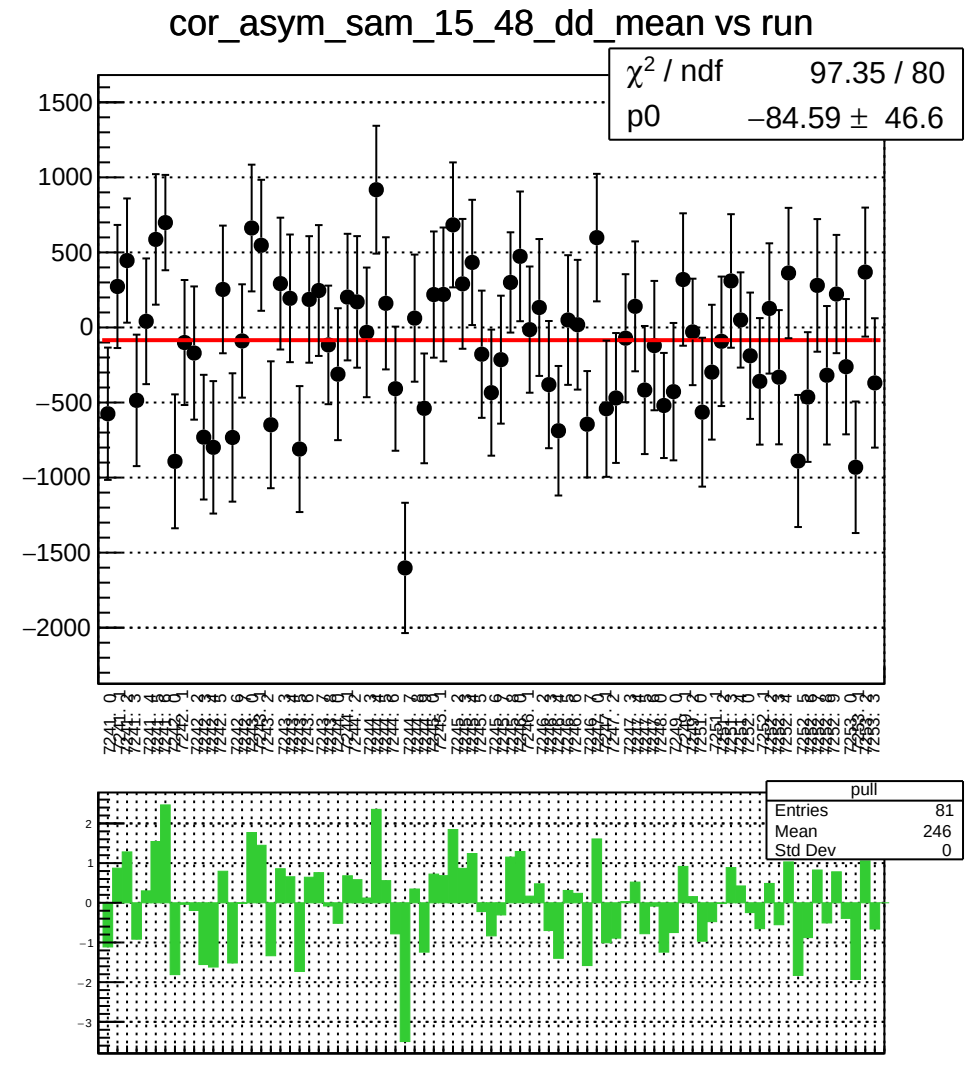

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 97.35 / 80
p0 −84.59 ± 46.6
pull
Entries 81
Mean 246.1
Std Dev 0

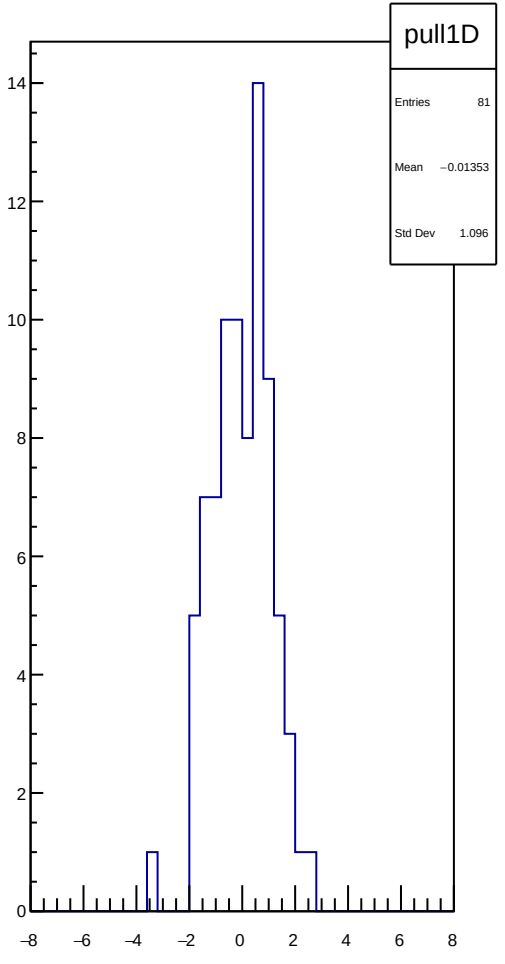

pull1D
Entries 81
Mean −0.01353
Std Dev 1.096

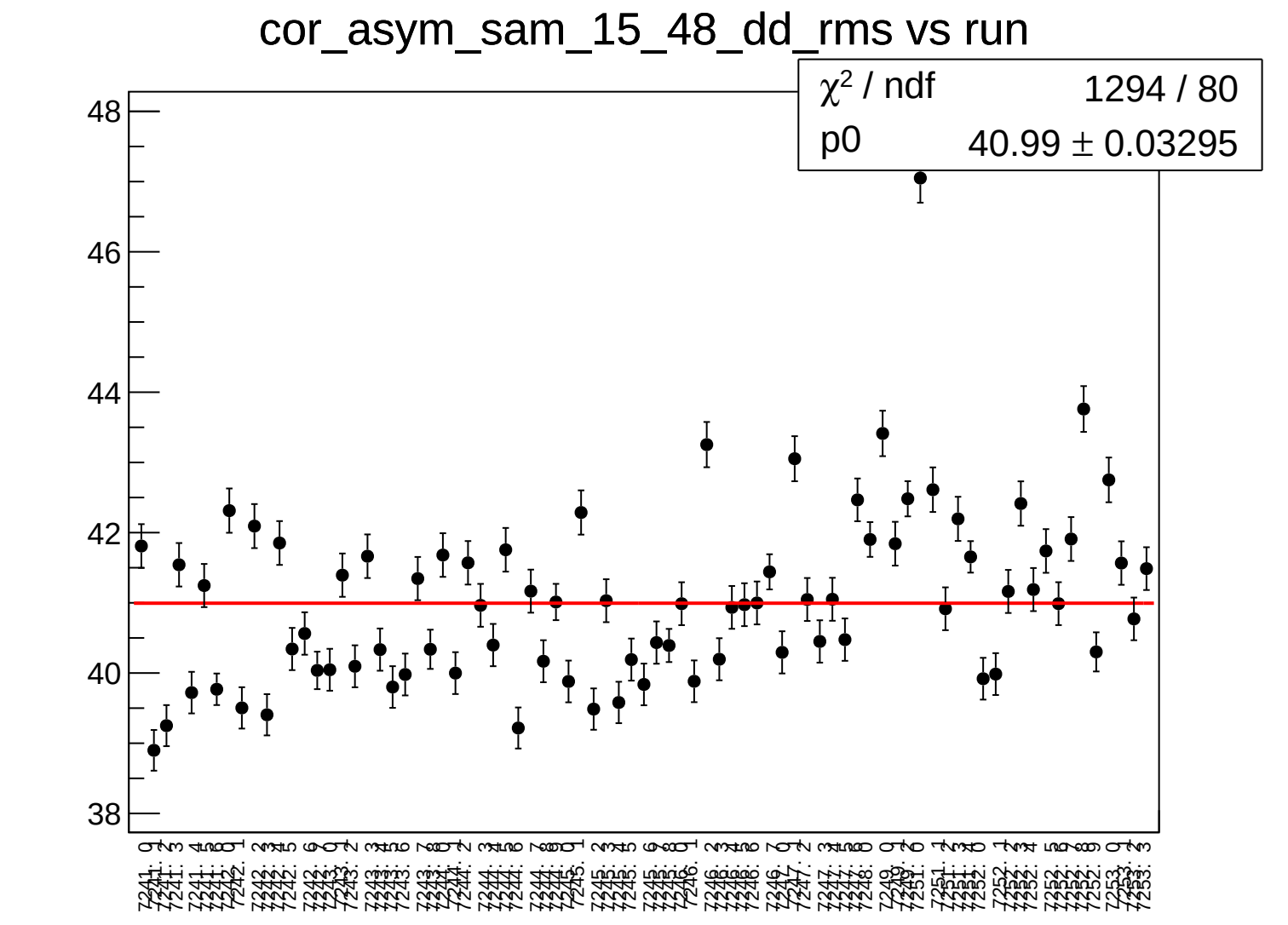

reg_asym_sam_15_48_dd_rms vs run
χ² / ndf 1294 / 80
p0 40.99 ± 0.03295
48
46
44
42
40
38

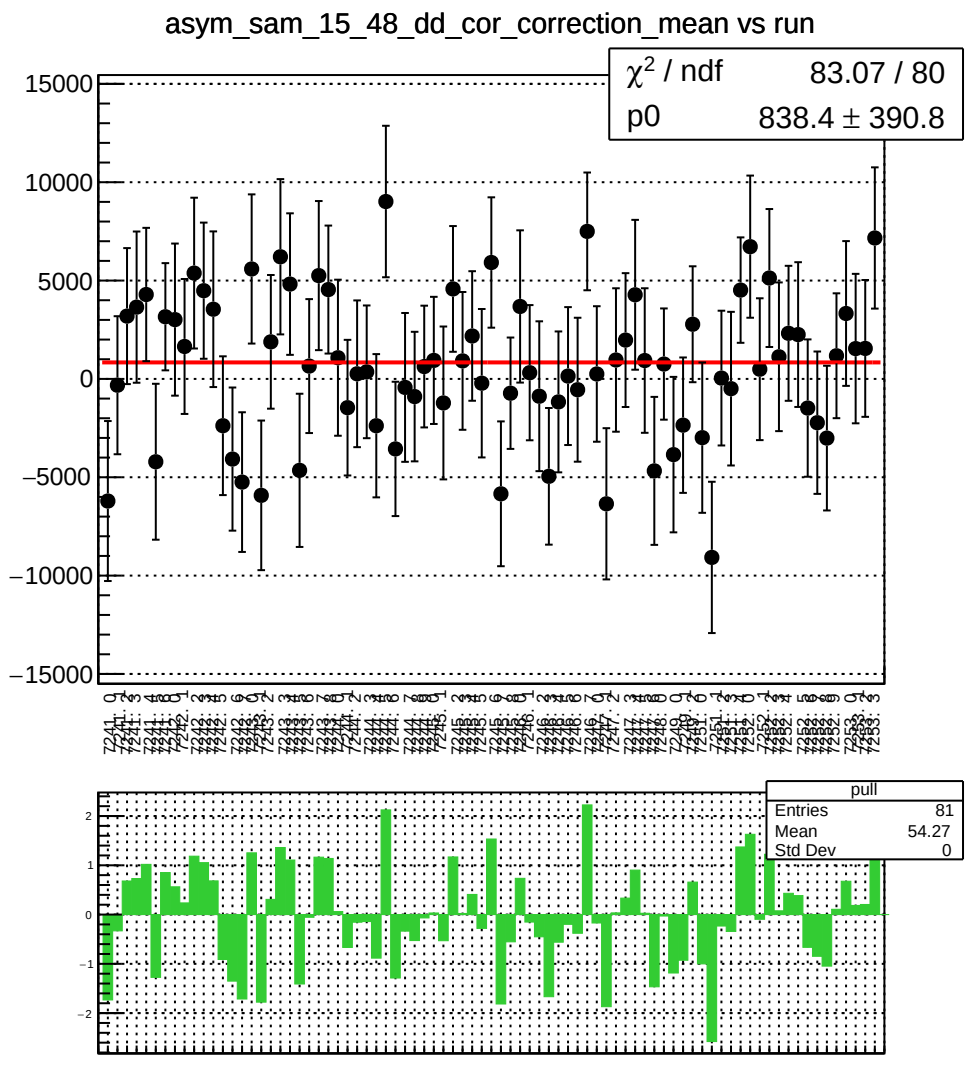

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 83.07 / 80
p0 838.4 ± 390.8
pull
Entries 81
Mean 54.27
Std Dev 0
pull1D
Entries 81
Mean −0.02481
Std Dev 1.012

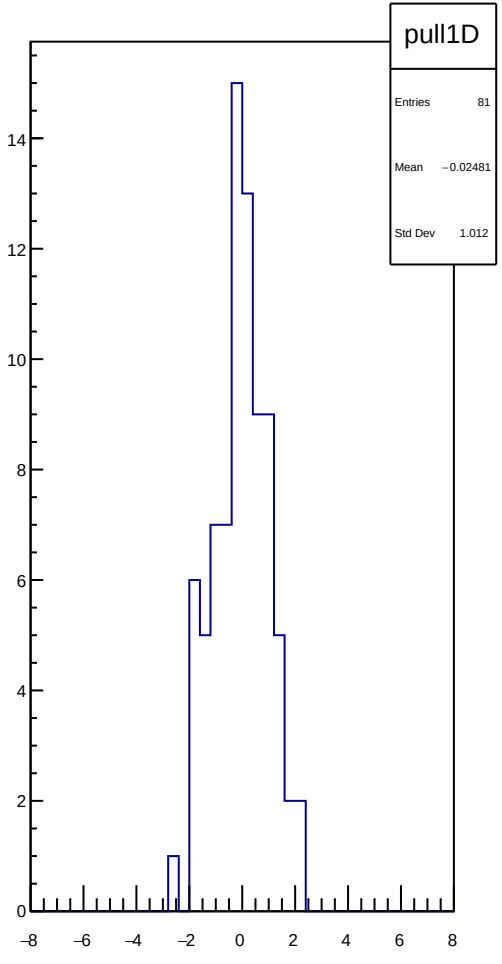

asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 4626 / 80
p0 343.4 ± 0.2763
380
360
340
320
300

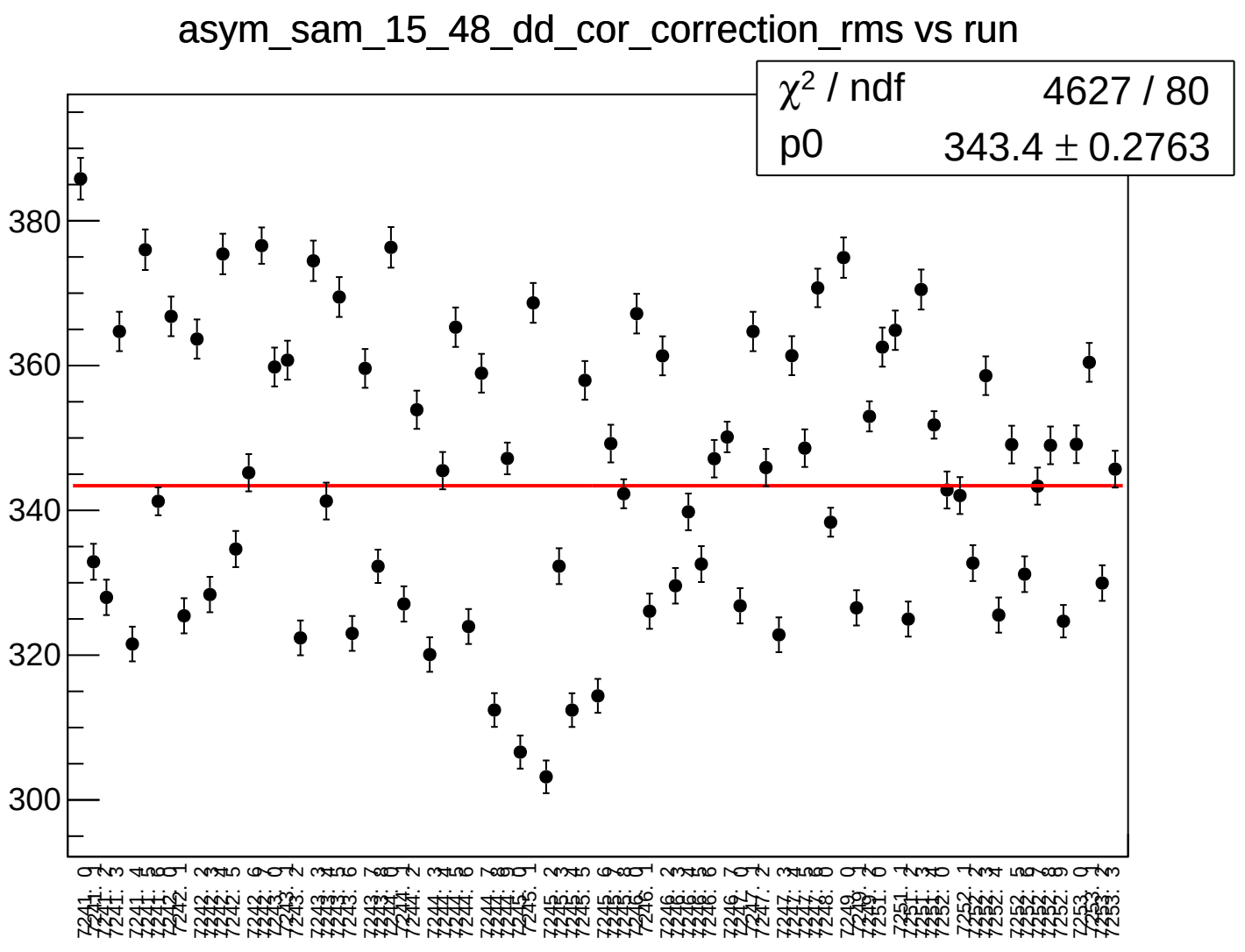

cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 97.35 / 80
p0 −84.59 ± 46.6
pull
Entries 81
Mean 246
Std Dev 0

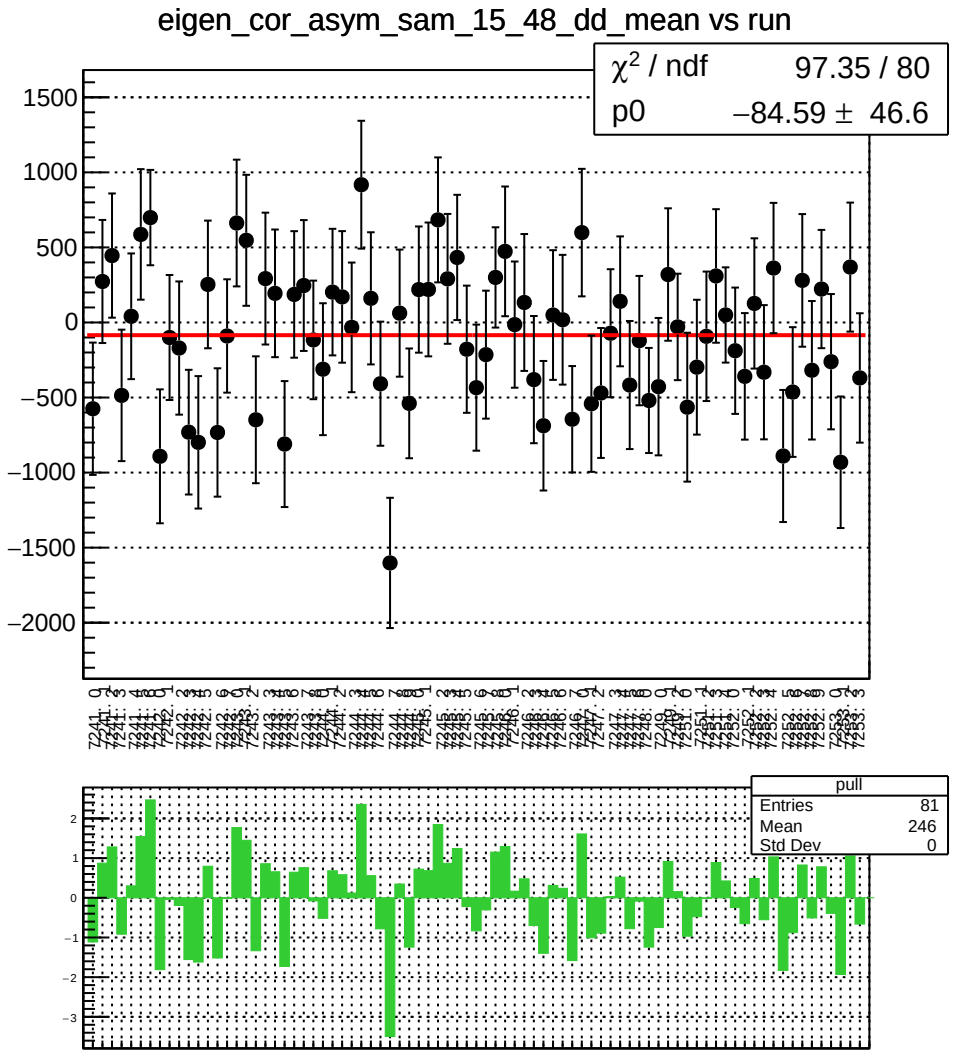

pull1D
Entries 81
Mean −0.01353
Std Dev 1.096

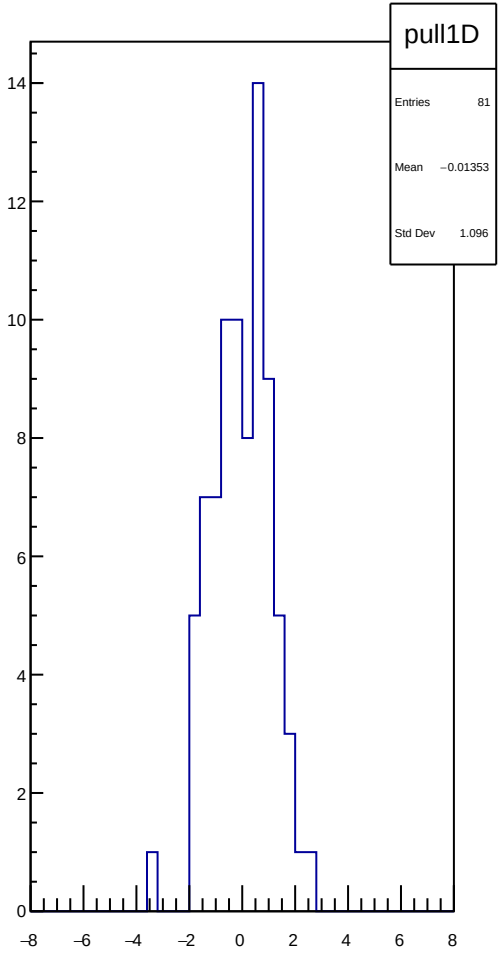

cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 1294 / 80
p0 40.99 ± 0.03295
48
46
44
42
40
38

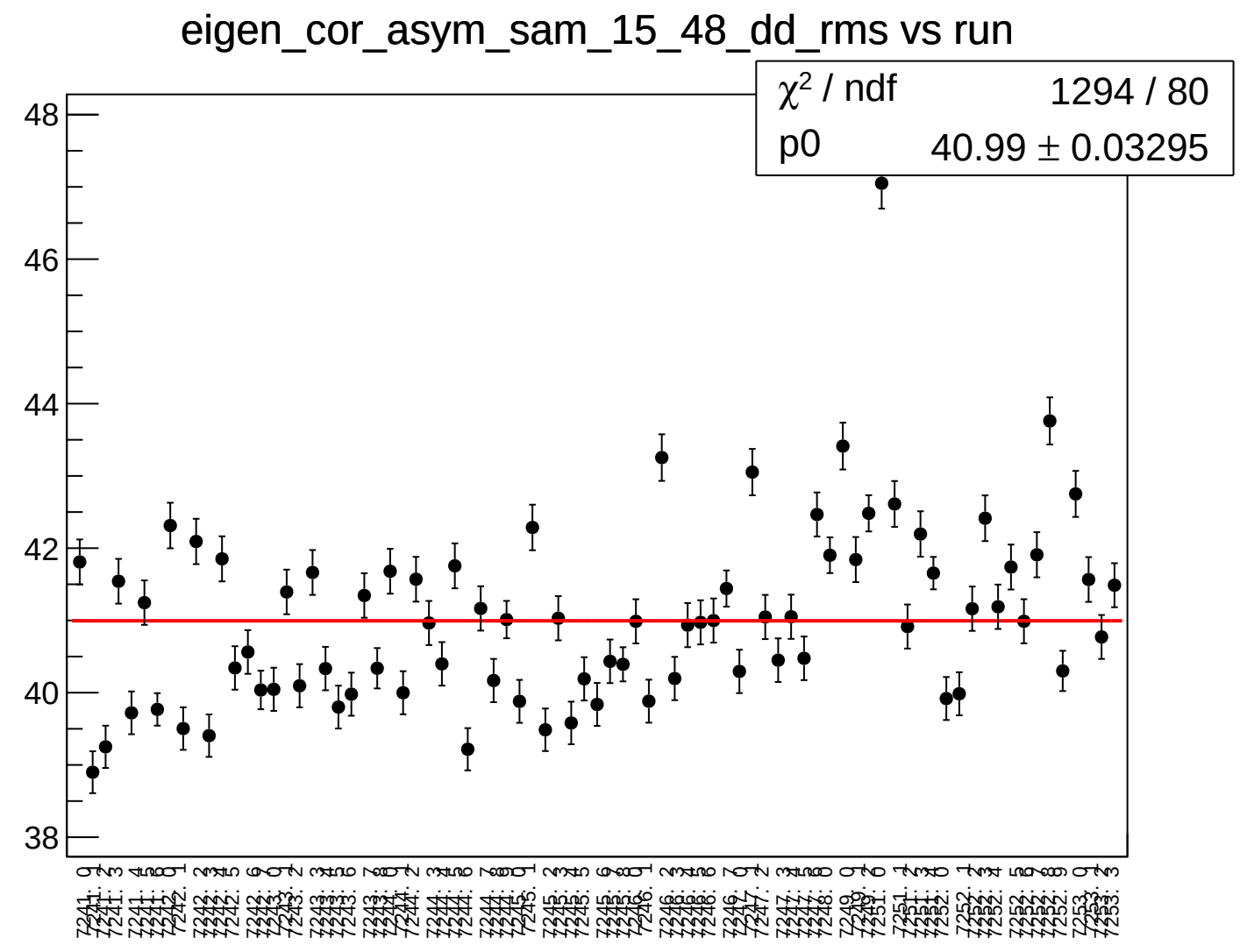

asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 83.07 / 80
p0 838.4 ± 390.8
pull
Entries 81
Mean 54.27
Std Dev 0

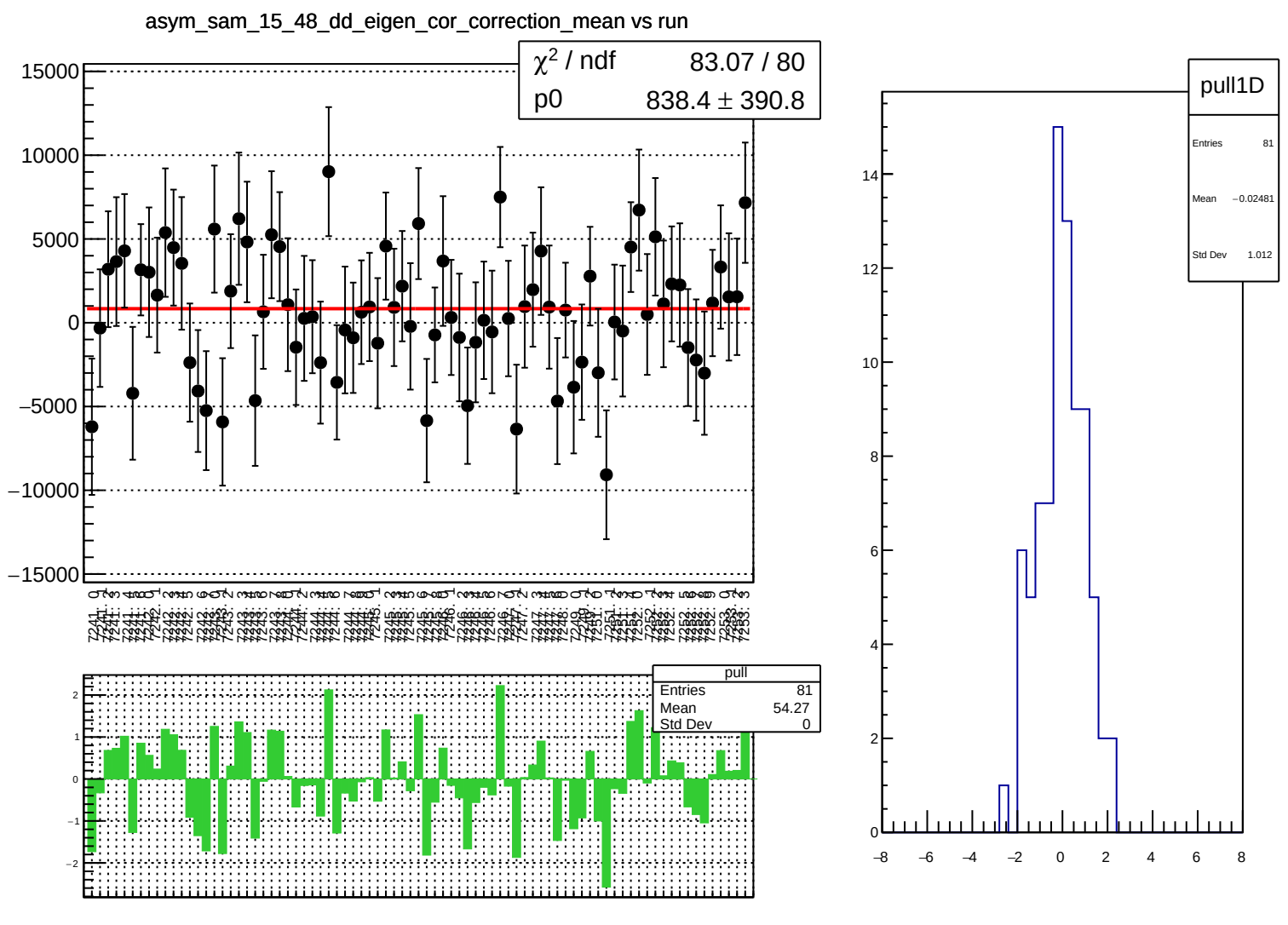

pull1D
Entries 81
Mean −0.02481
Std Dev 1.012

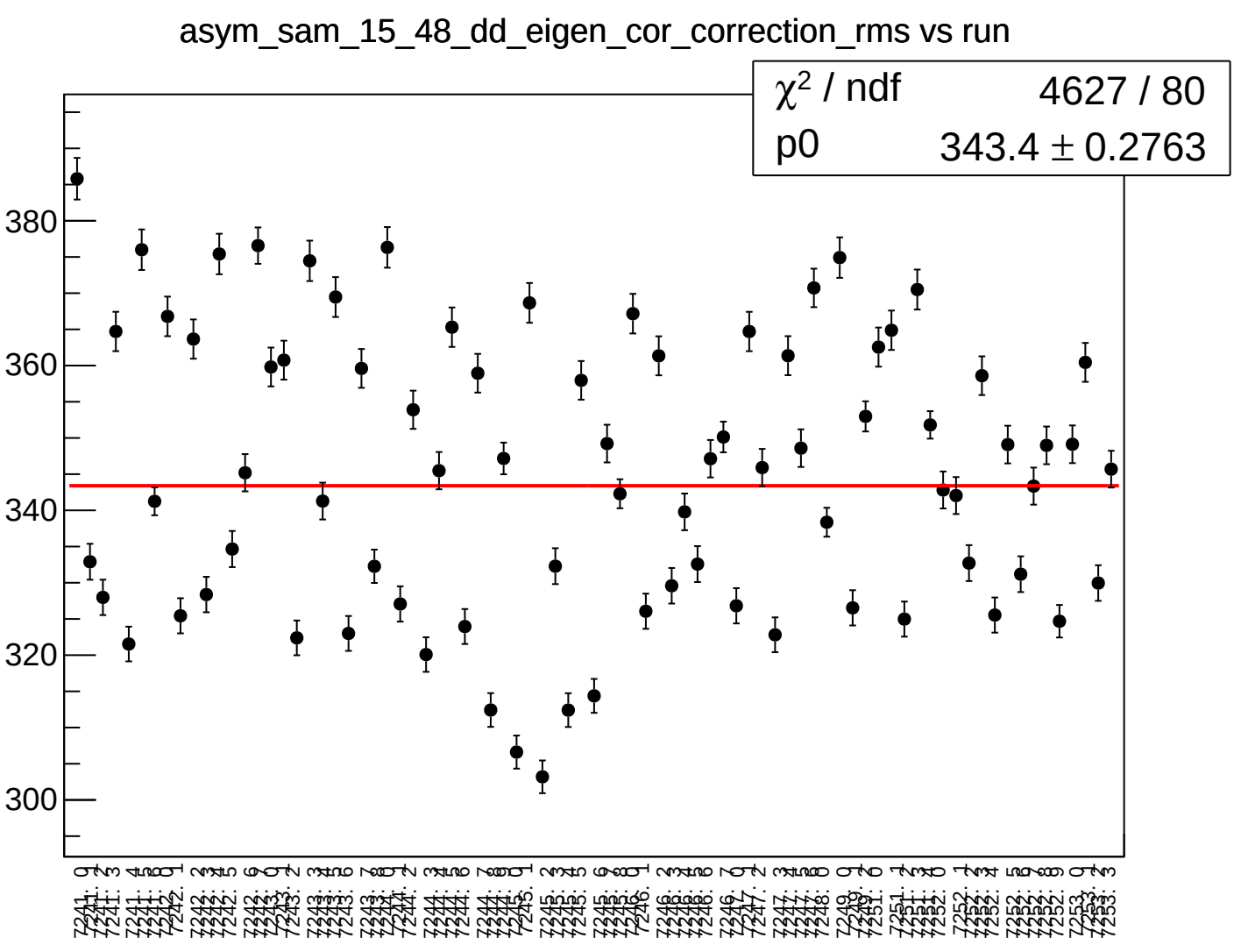

asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 4627 / 80
p0 343.4 ± 0.2763
380
360
340
320
300

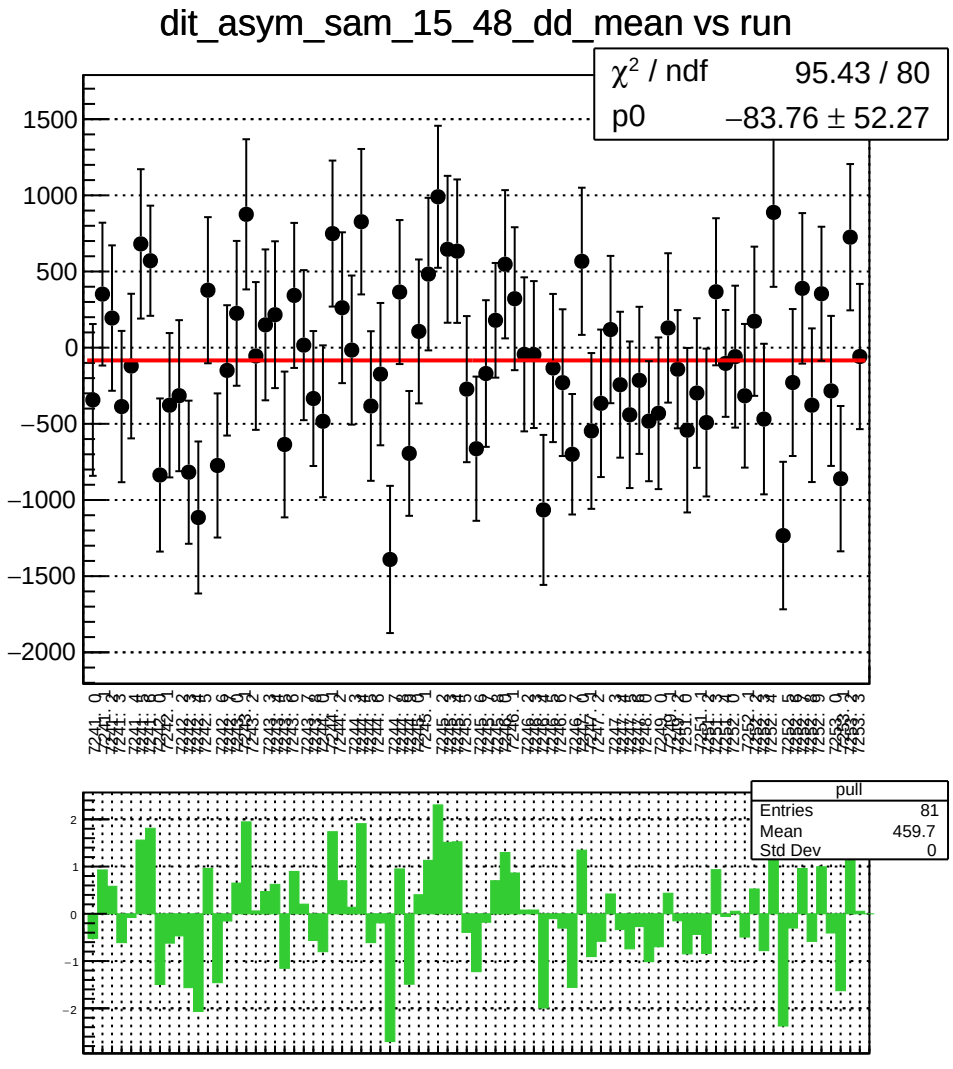

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 97.35 / 80
p0 −84.59 ± 46.6
pull
Entries 81
Mean 246
Std Dev 0

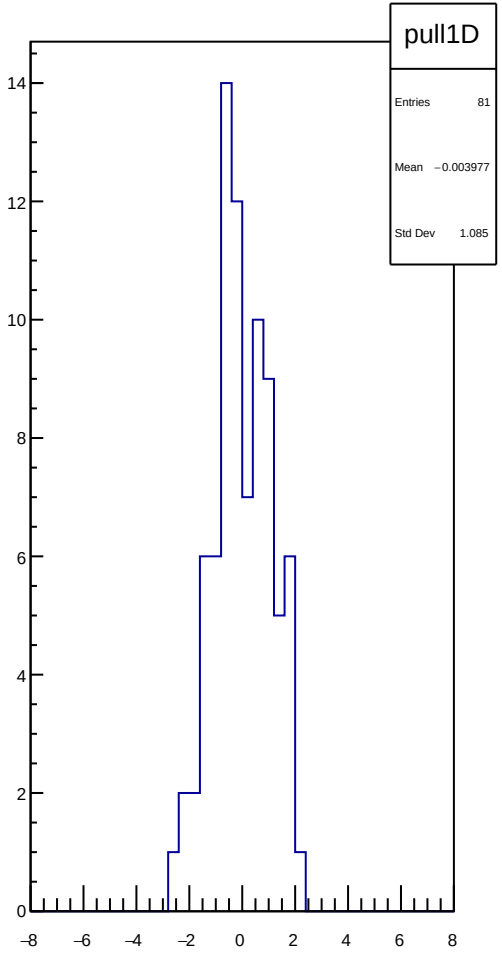

pull1D
Entries 81
Mean −0.01353
Std Dev 1.096

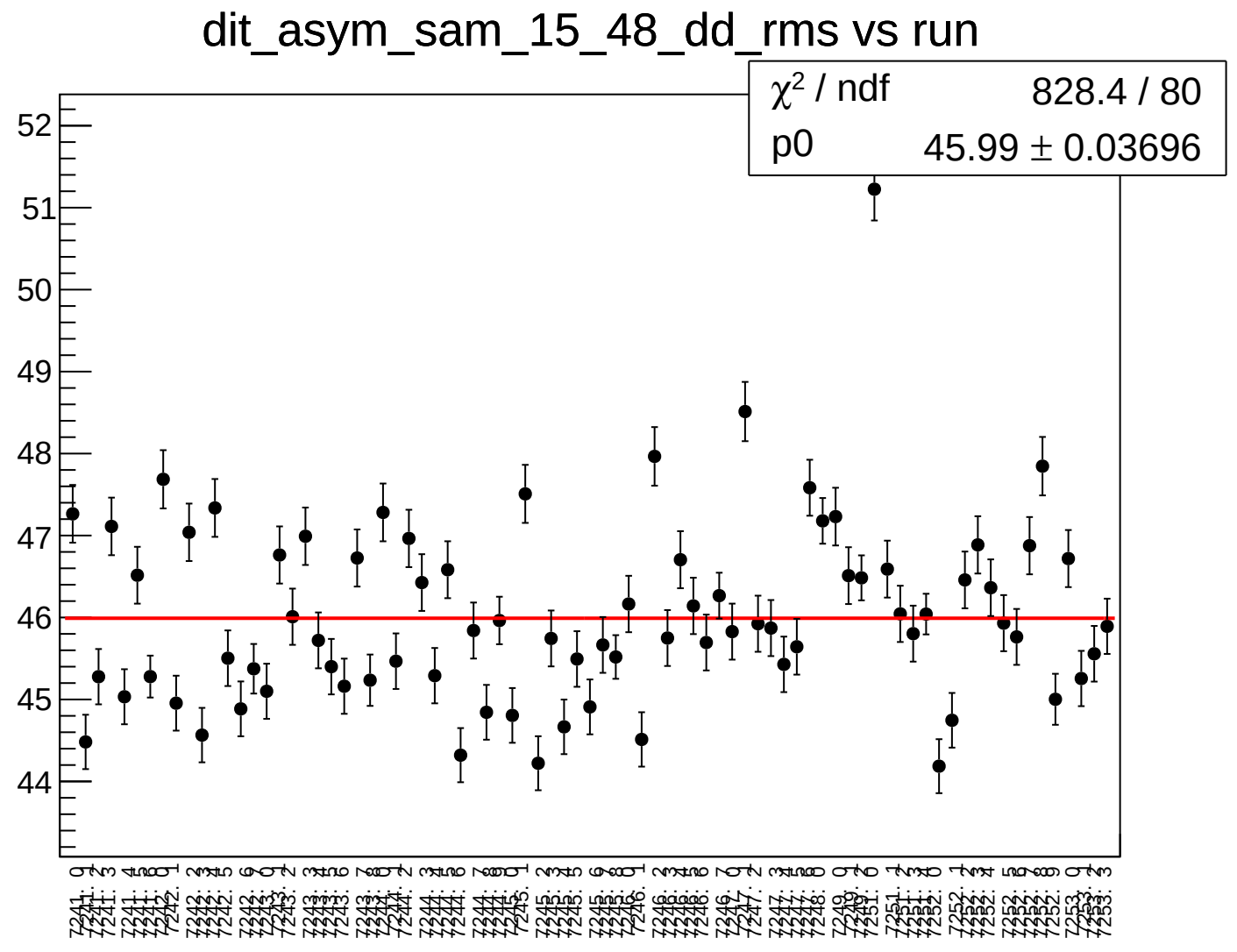

eigen_cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 1294 / 80
p0 40.99 ± 0.03295
48
46
44
42
40
38

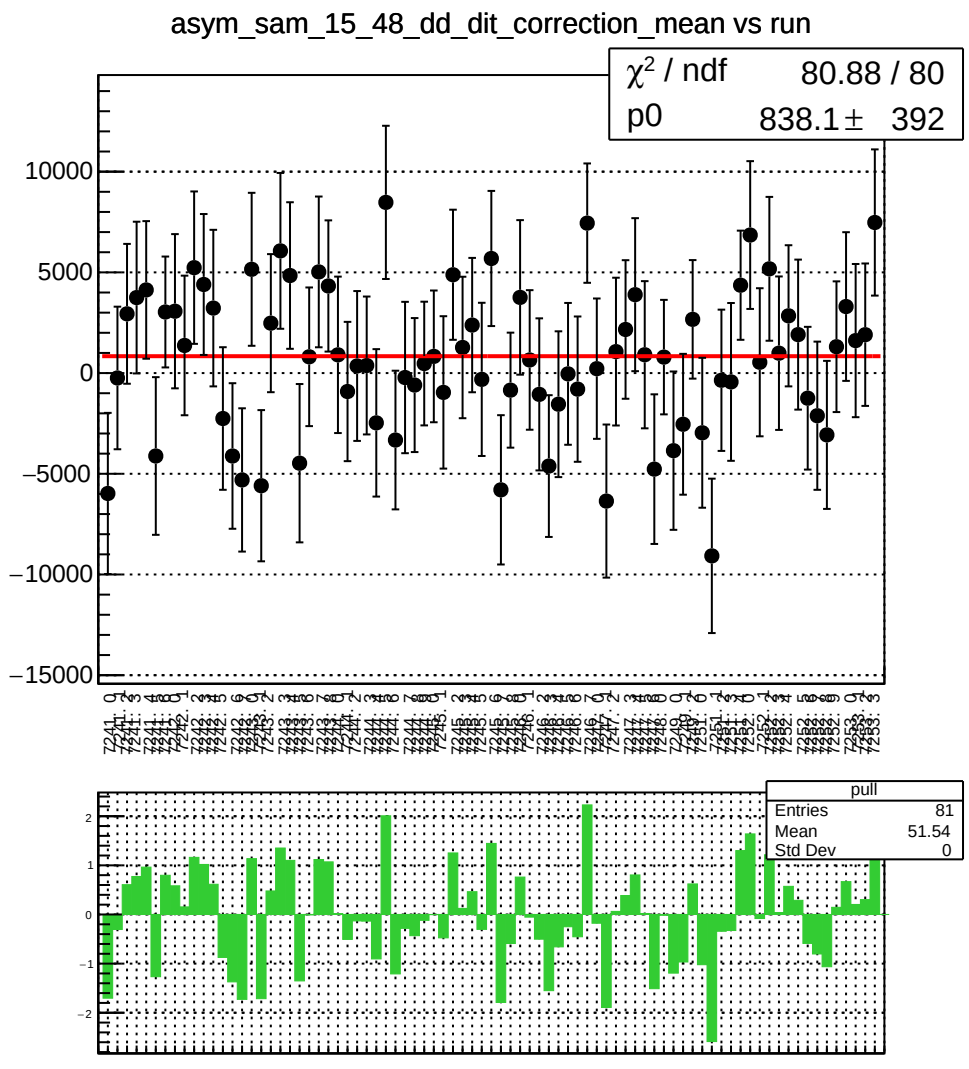

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 83.07 / 80
p0 838.4 ± 390.8
pull
Entries 81
Mean 54.27
Std Dev 0
pull1D
Entries 81
Mean −0.02481
Std Dev 1.012

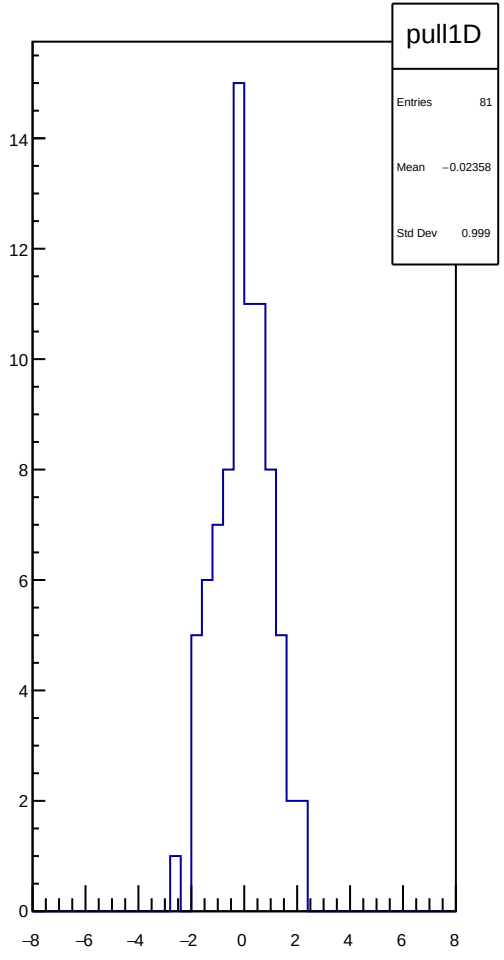

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 4627 / 80
p0 343.4 ± 0.2763
380
360
340
320
300

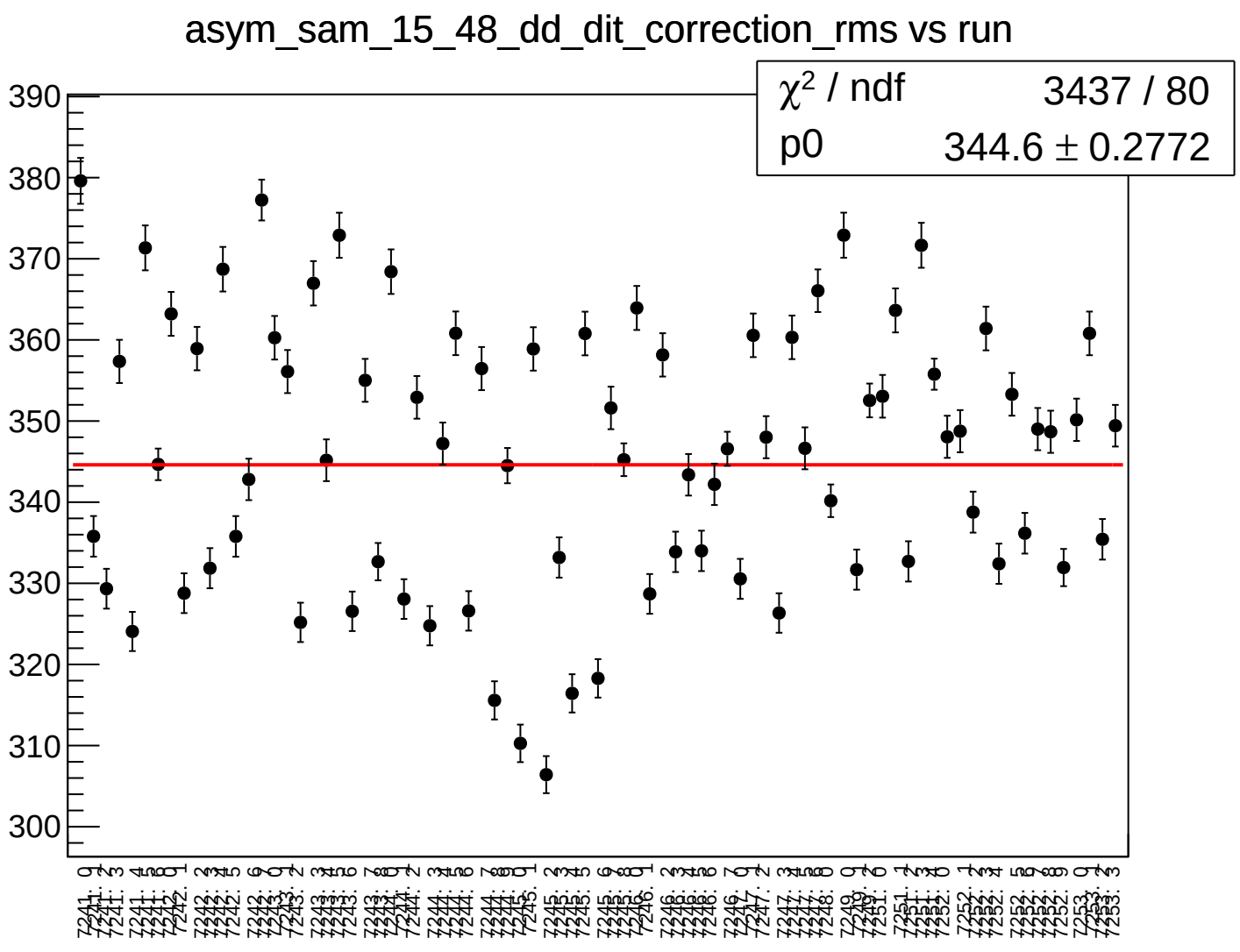

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 95.43 / 80
p0 −83.76 ± 52.27
pull
Entries 81
Mean 459.7
Std Dev 0

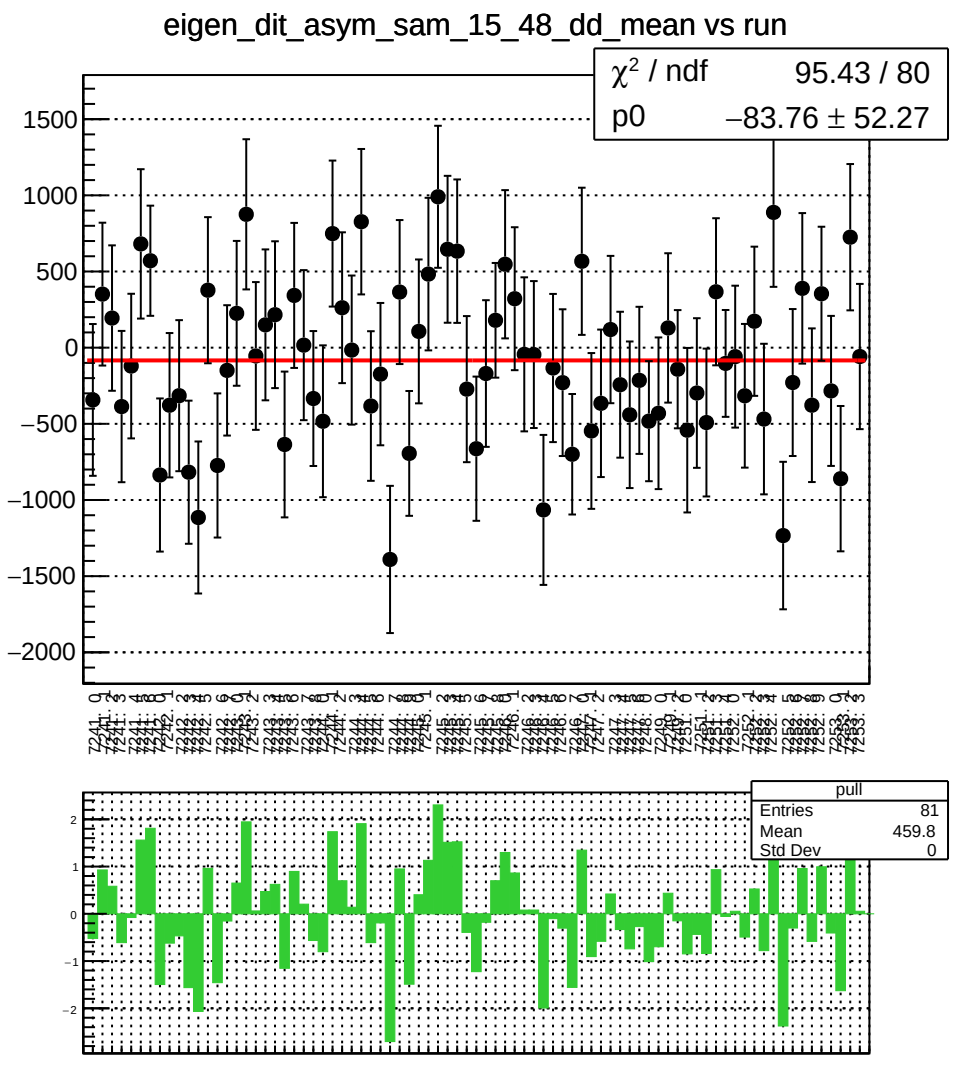

pull1D
Entries 81
Mean −0.003977
Std Dev 1.085

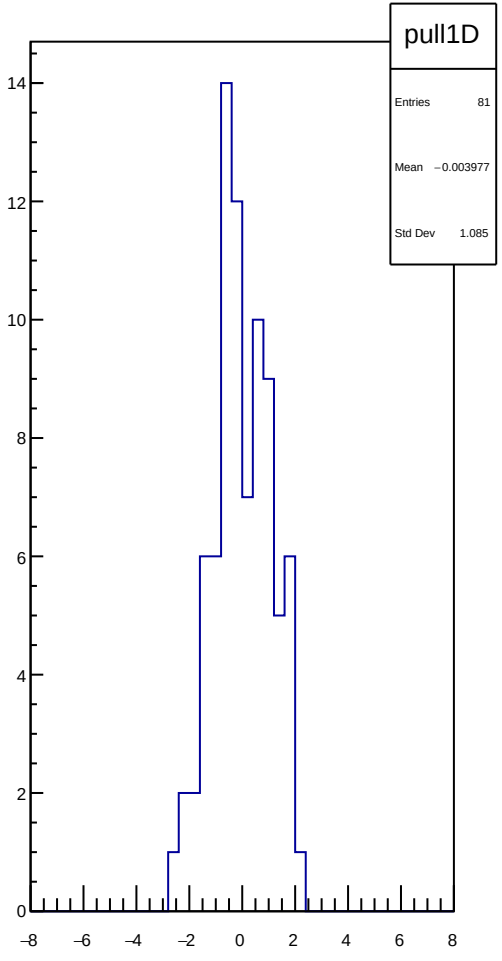

dit_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 828.4 / 80
p0 45.99 ± 0.03696
52
51
50
49
48
47
46
45
44

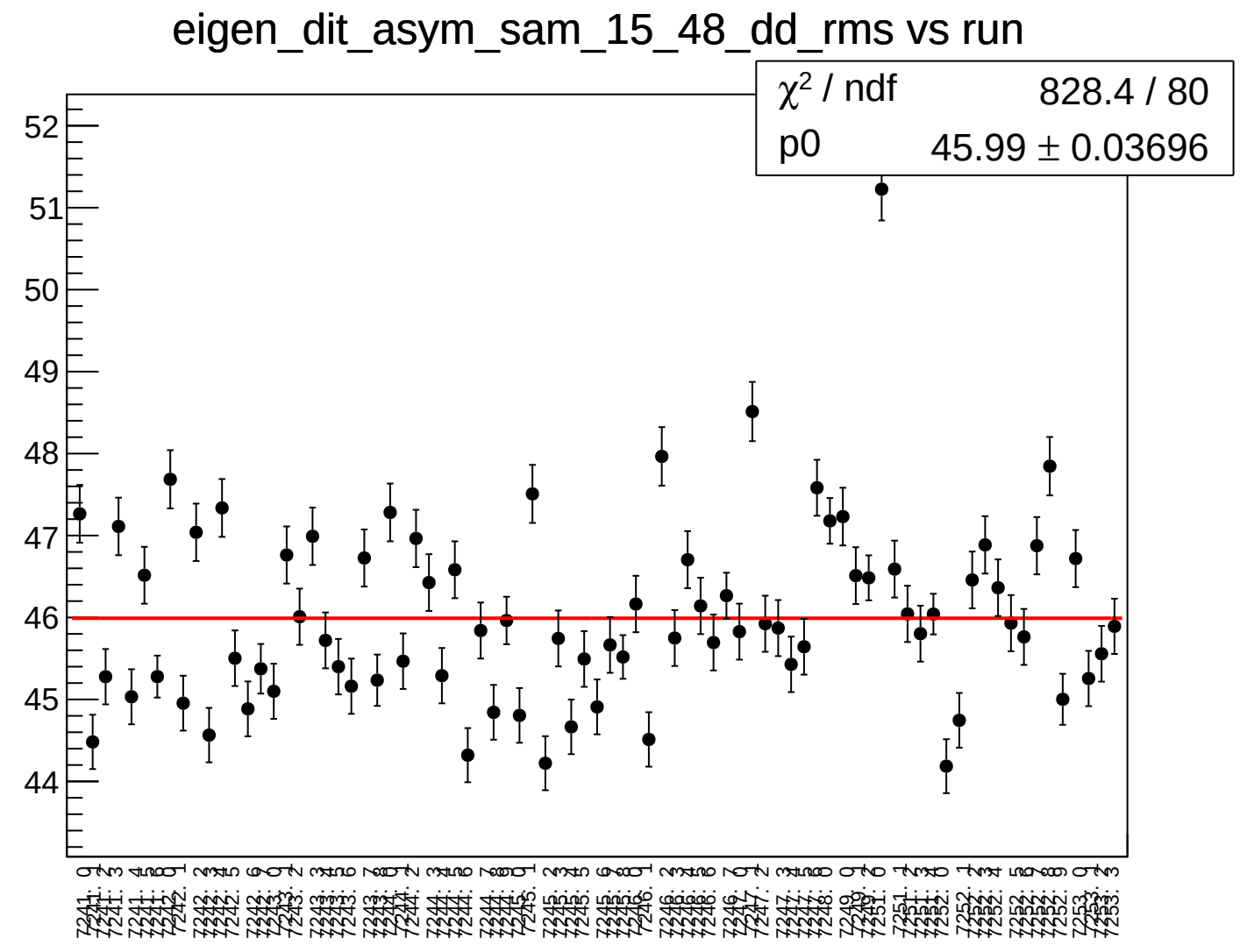

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 80.88 / 80
p0 838.1 ± 392
pull
Entries 81
Mean 51.54
Std Dev 0

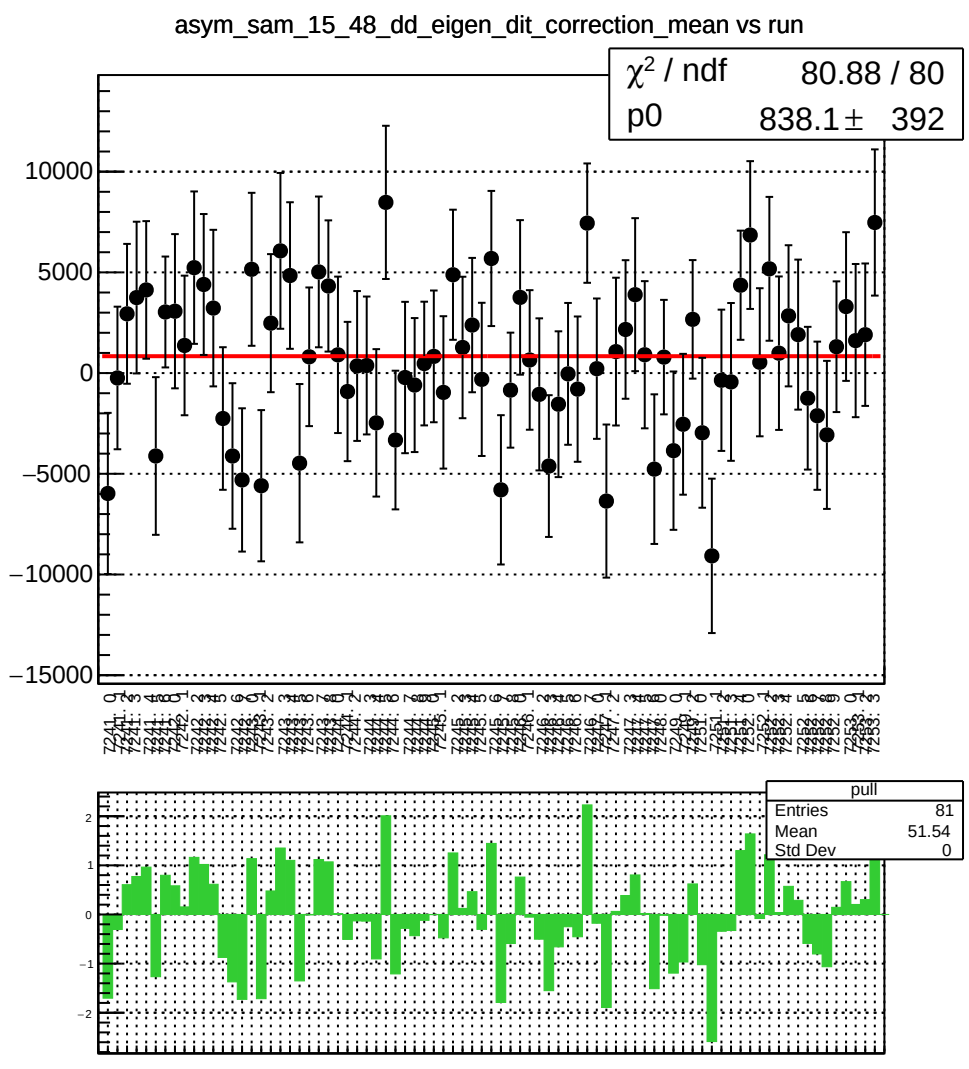

pull1D
Entries 81
Mean −0.02358
Std Dev 0.999

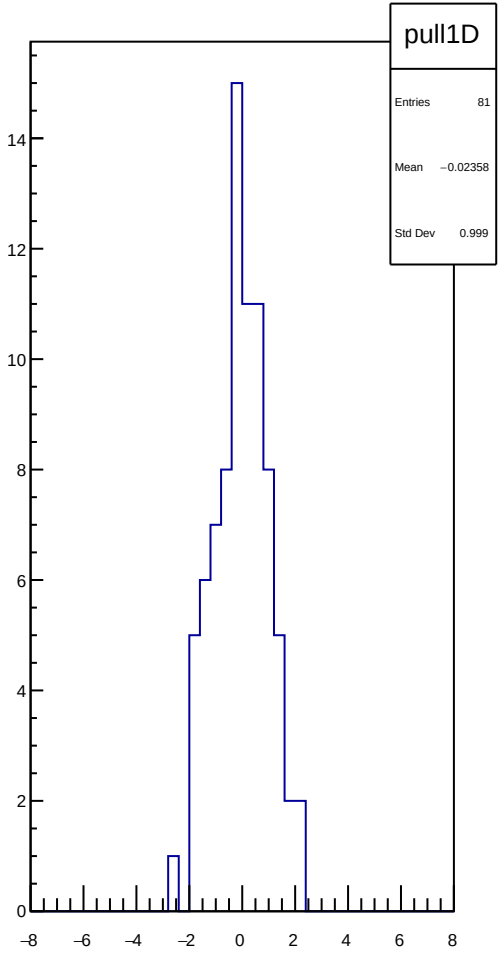

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 3437 / 80
p0 344.6 ± 0.2772
390
380
370
360
350
340
330
320
310
300

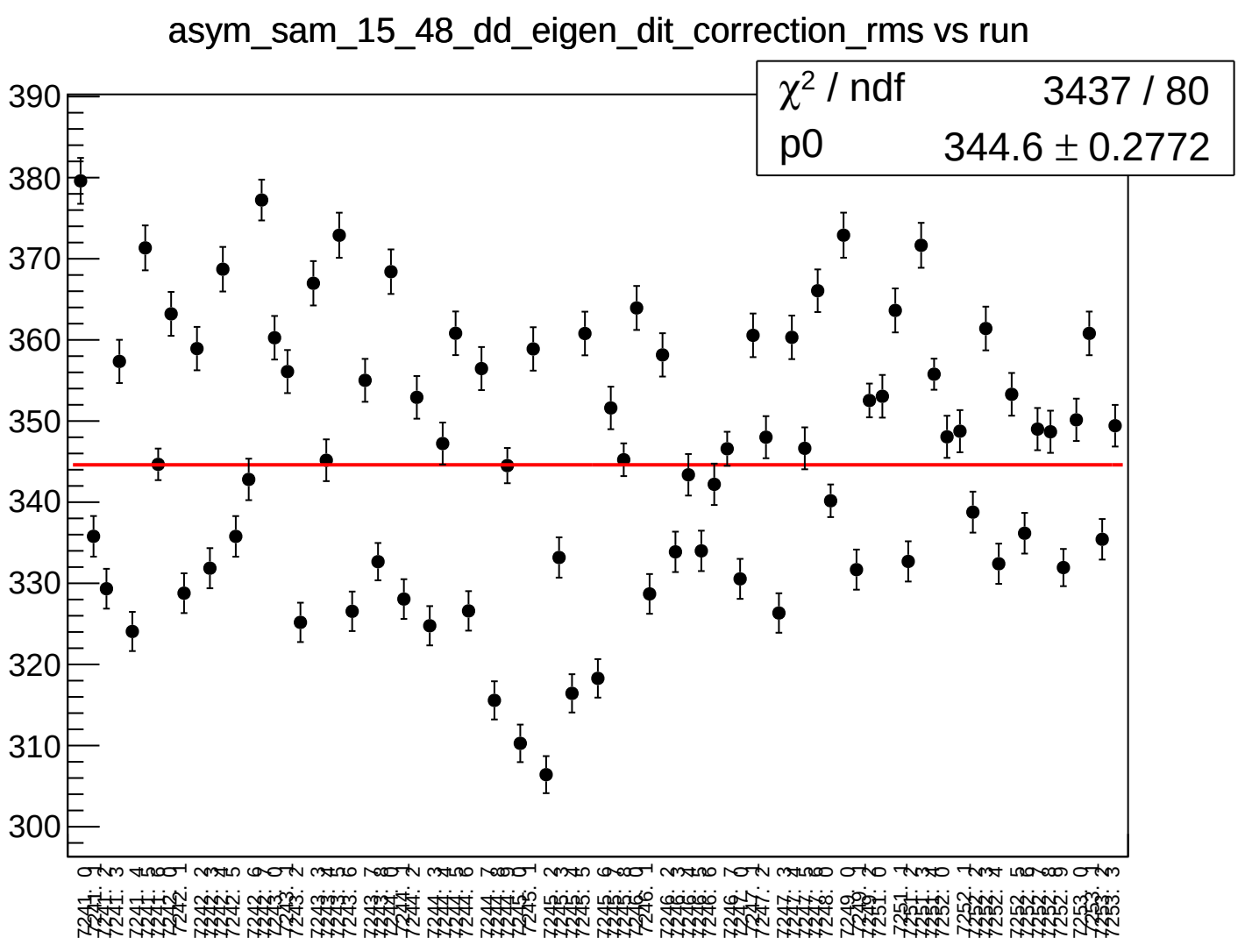

eigen_dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 95.43 / 80
p0 −83.76 ± 52.27
pull
Entries 81
Mean 459.8
Std Dev 0

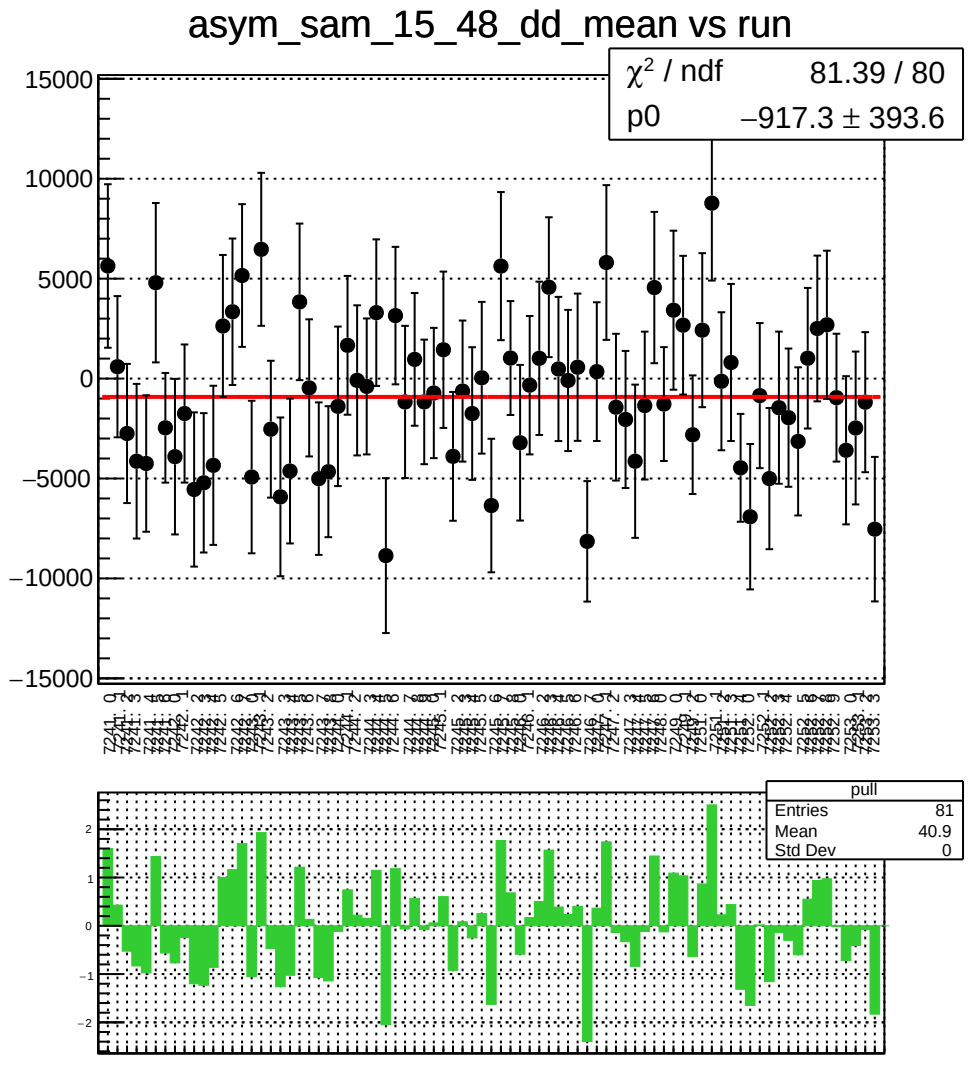

pull1D
Entries 81
Mean −0.003977
Std Dev 1.085

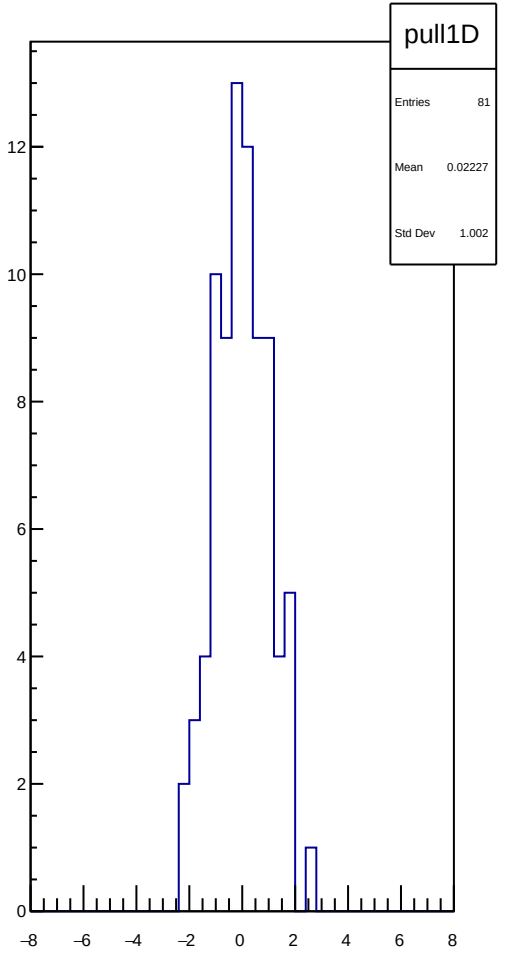

eigen_dit_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 828.4 / 80
p0 45.99 ± 0.03696
52
51
50
49
48
47
46
45
44

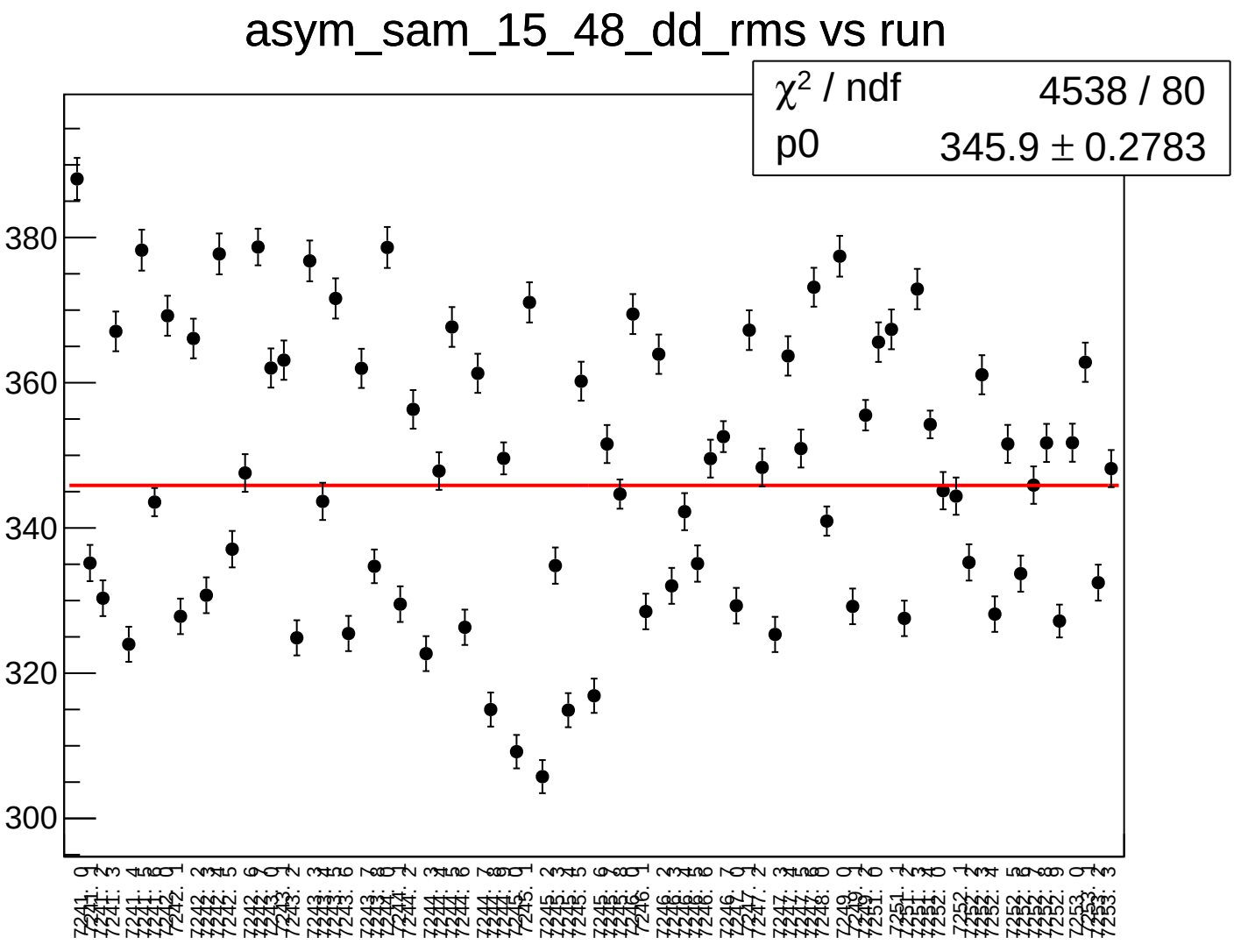

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 80.88 / 80
p0 838.1 ± 392
pull
Entries 81
Mean 51.54
Std Dev 0

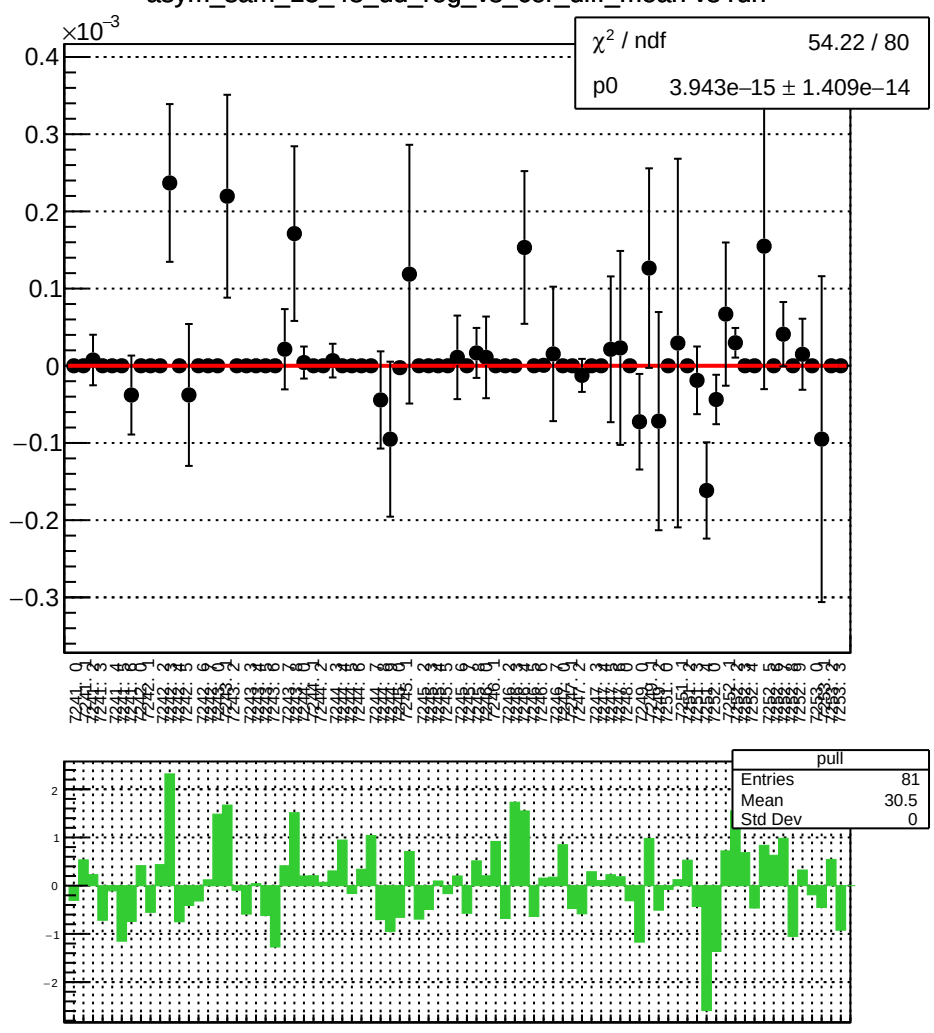

pull1D
Entries 81
Mean −0.02358
Std Dev 0.999

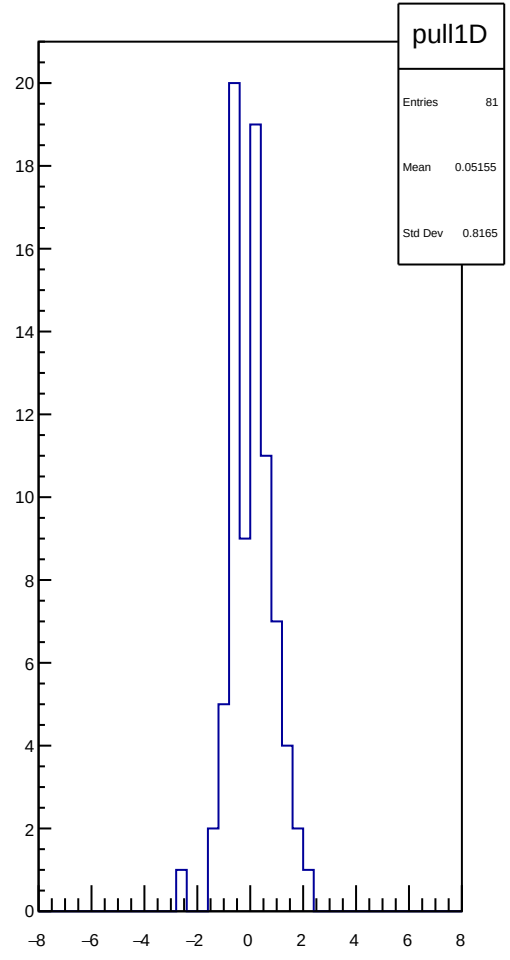

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 3437 / 80
p0 344.6 ± 0.2772
390
380
370
360
350
340
330
320
310
300

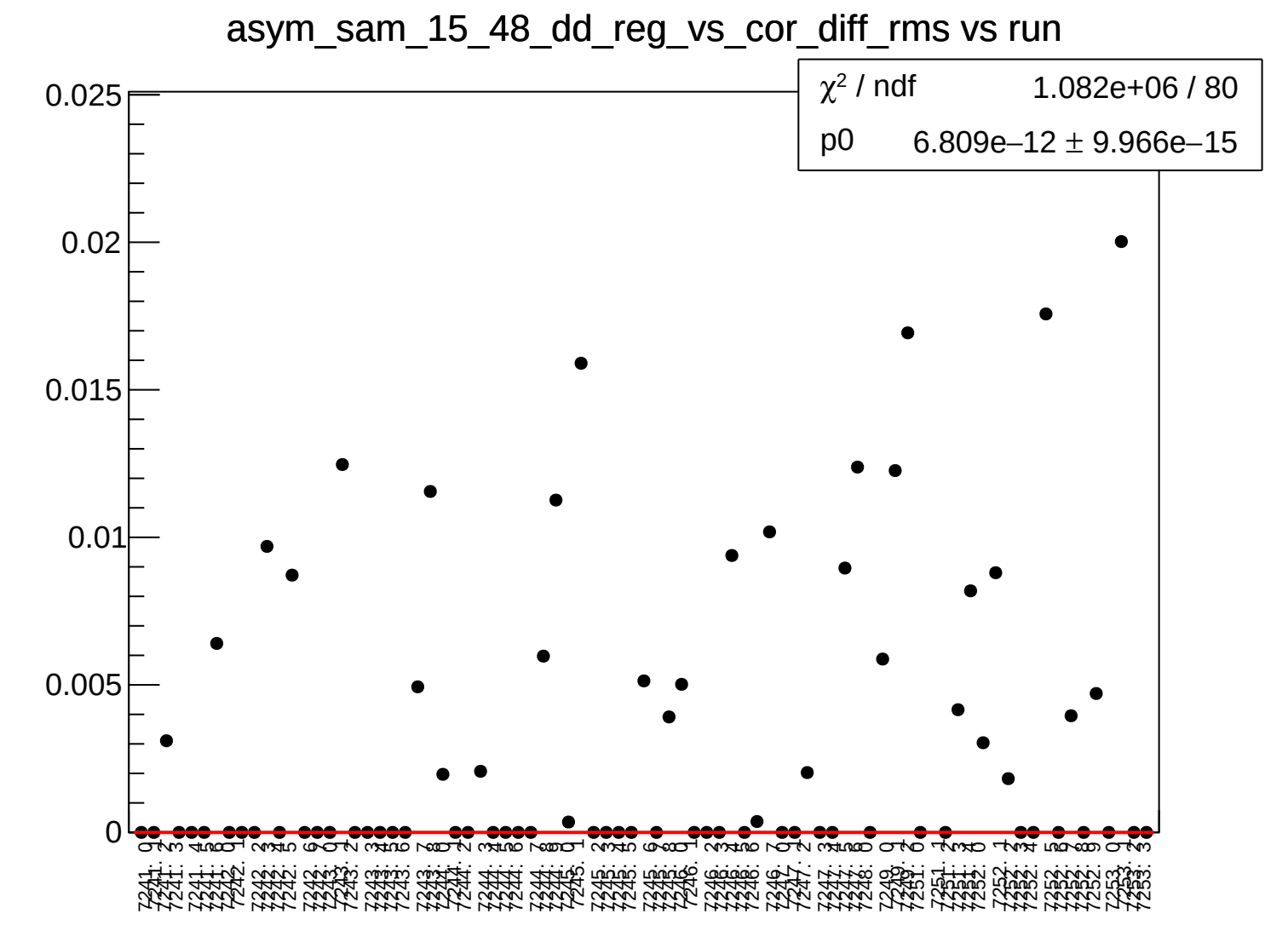

asym_sam_15_48_dd_mean vs run
χ² / ndf 81.39 / 80
p0 −917.3 ± 393.6
pull
Entries 81
Mean 40.9
Std Dev 0

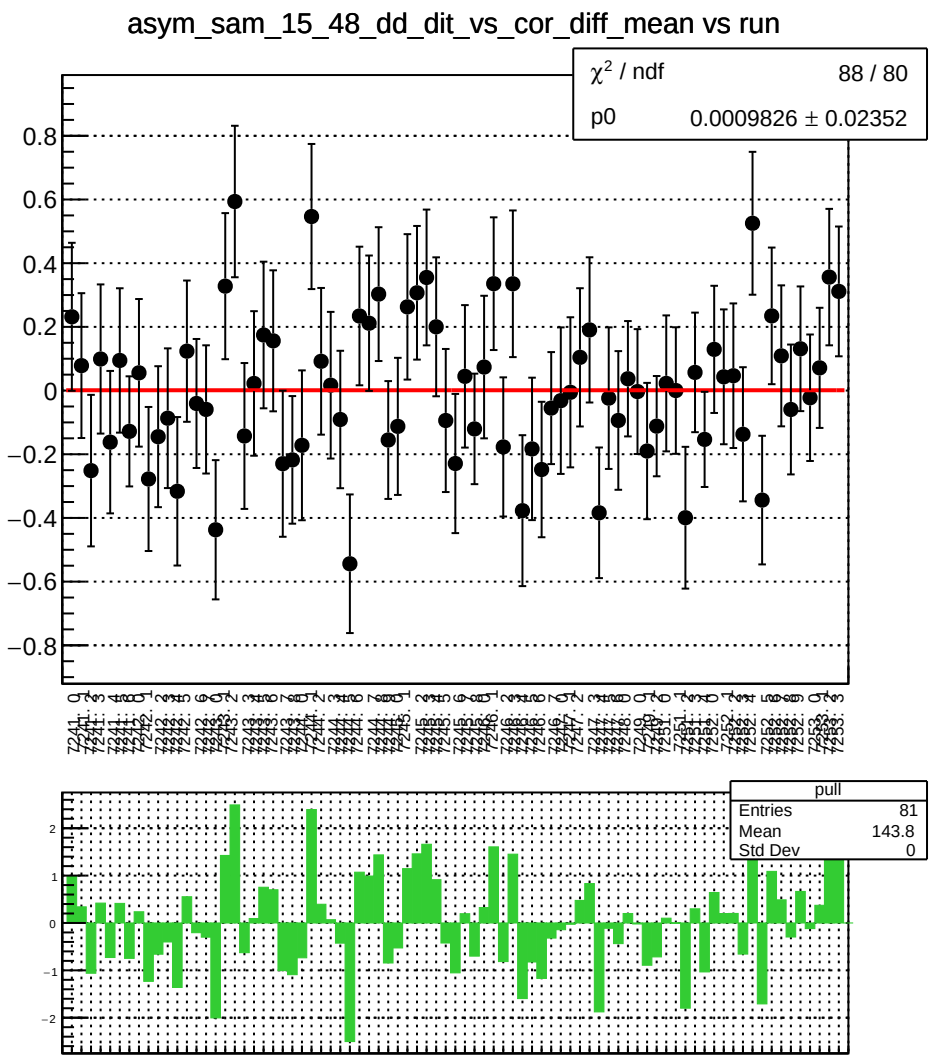

pull1D
Entries 81
Mean 0.02227
Std Dev 1.002

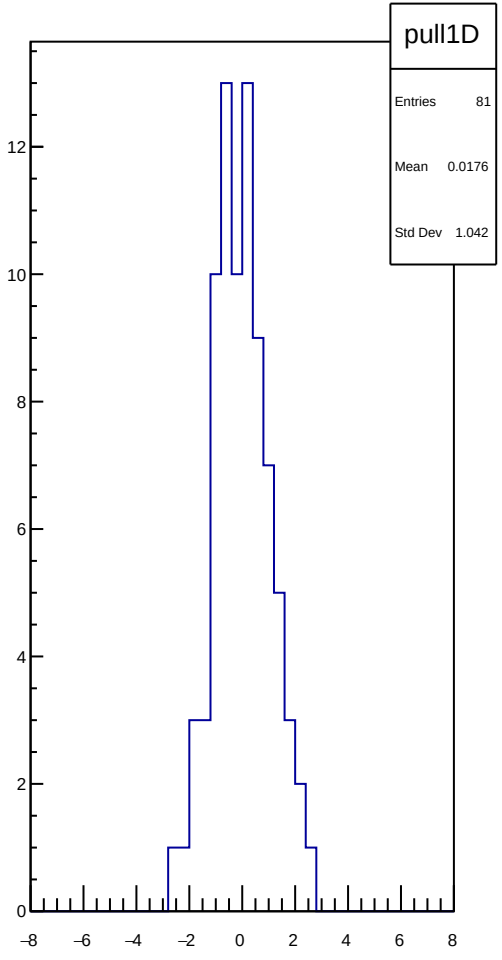

asym_sam_15_48_dd_rms vs run
χ² / ndf 4538 / 80
p0 345.9 ± 0.2783
380
360
340
320
300

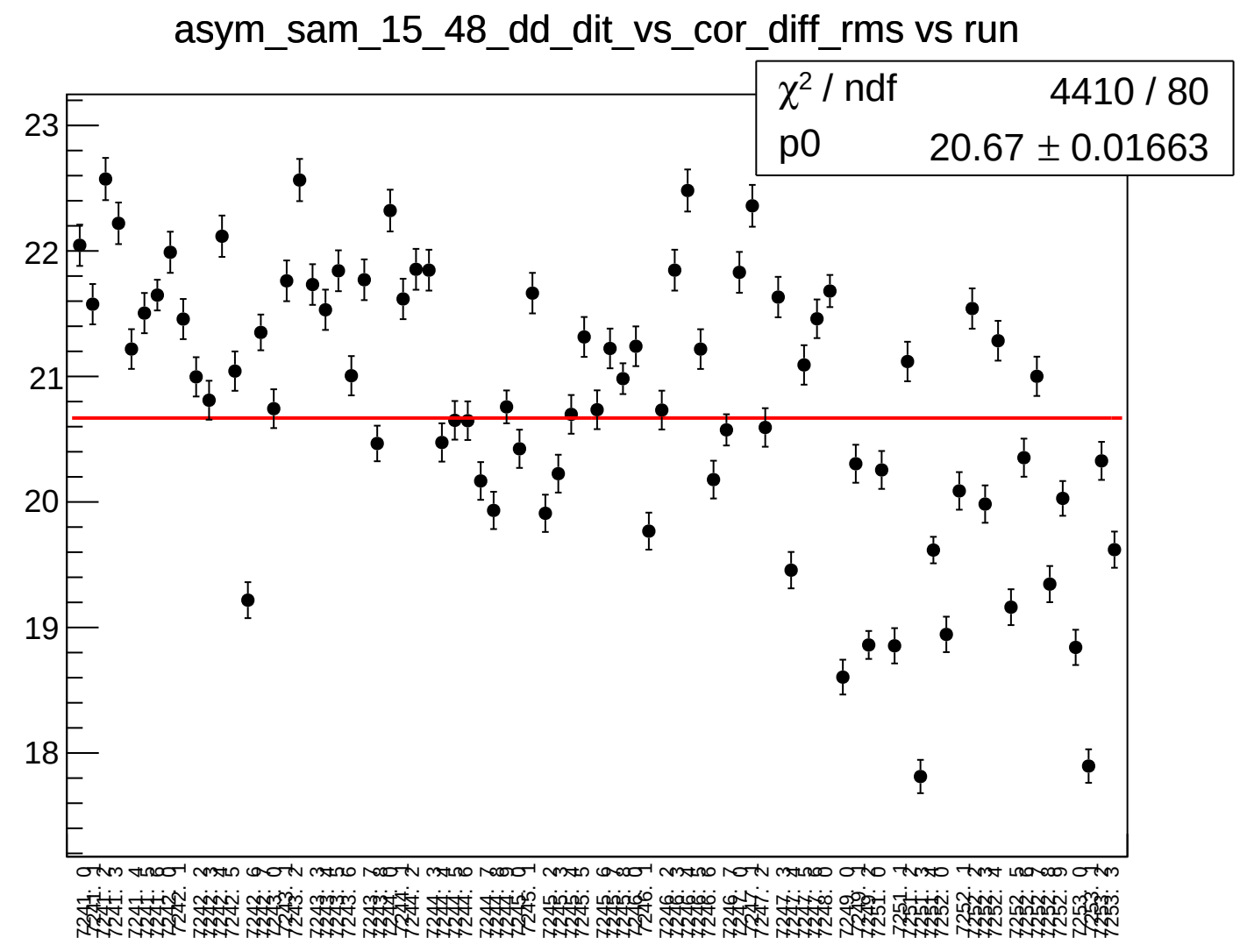

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 54.22 / 80
p0 3.943e−15 ± 1.409e−14
pull
Entries 81
Mean 30.5
Std Dev 0

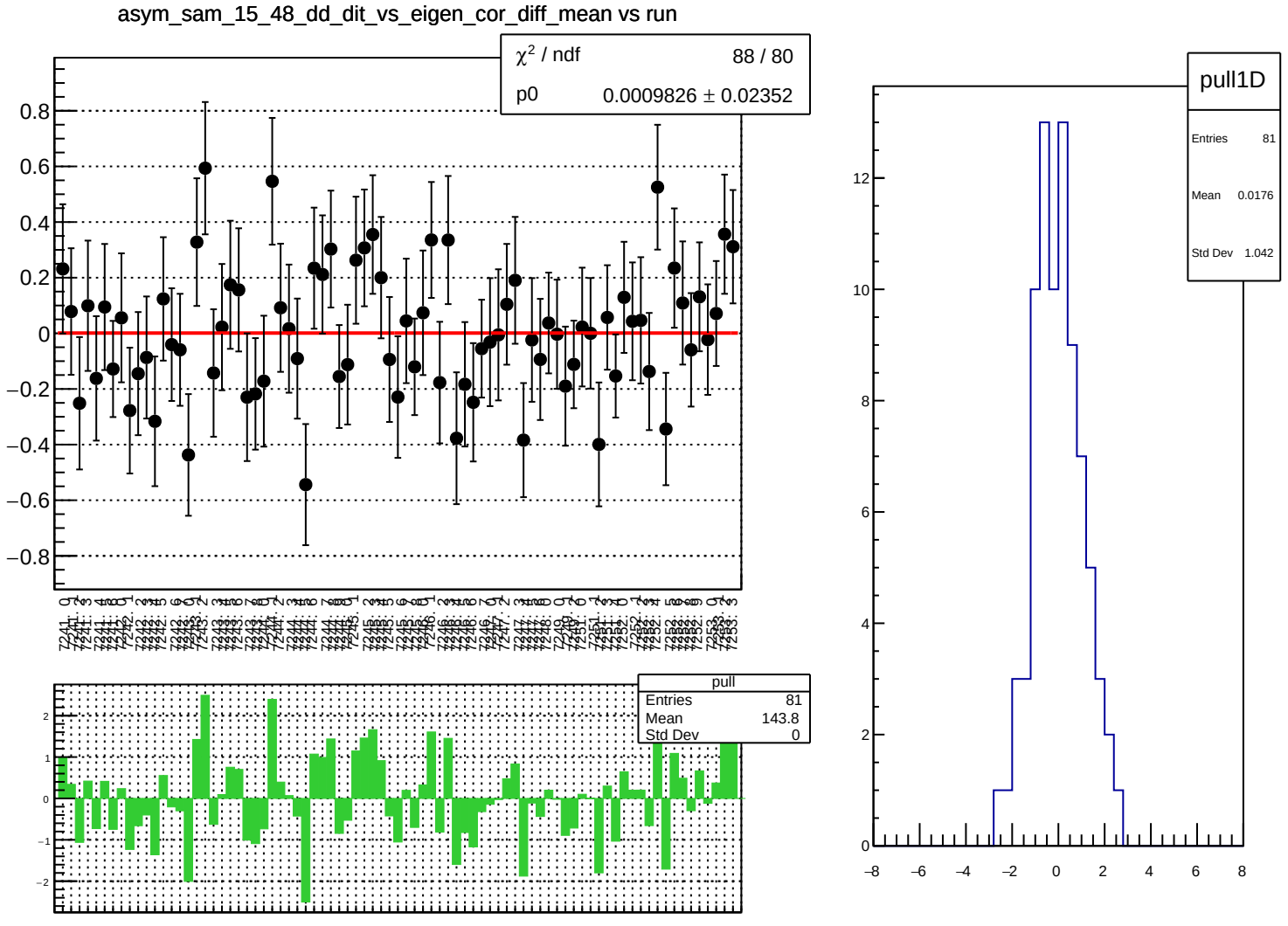

pull1D
Entries 81
Mean 0.05155
Std Dev 0.8165

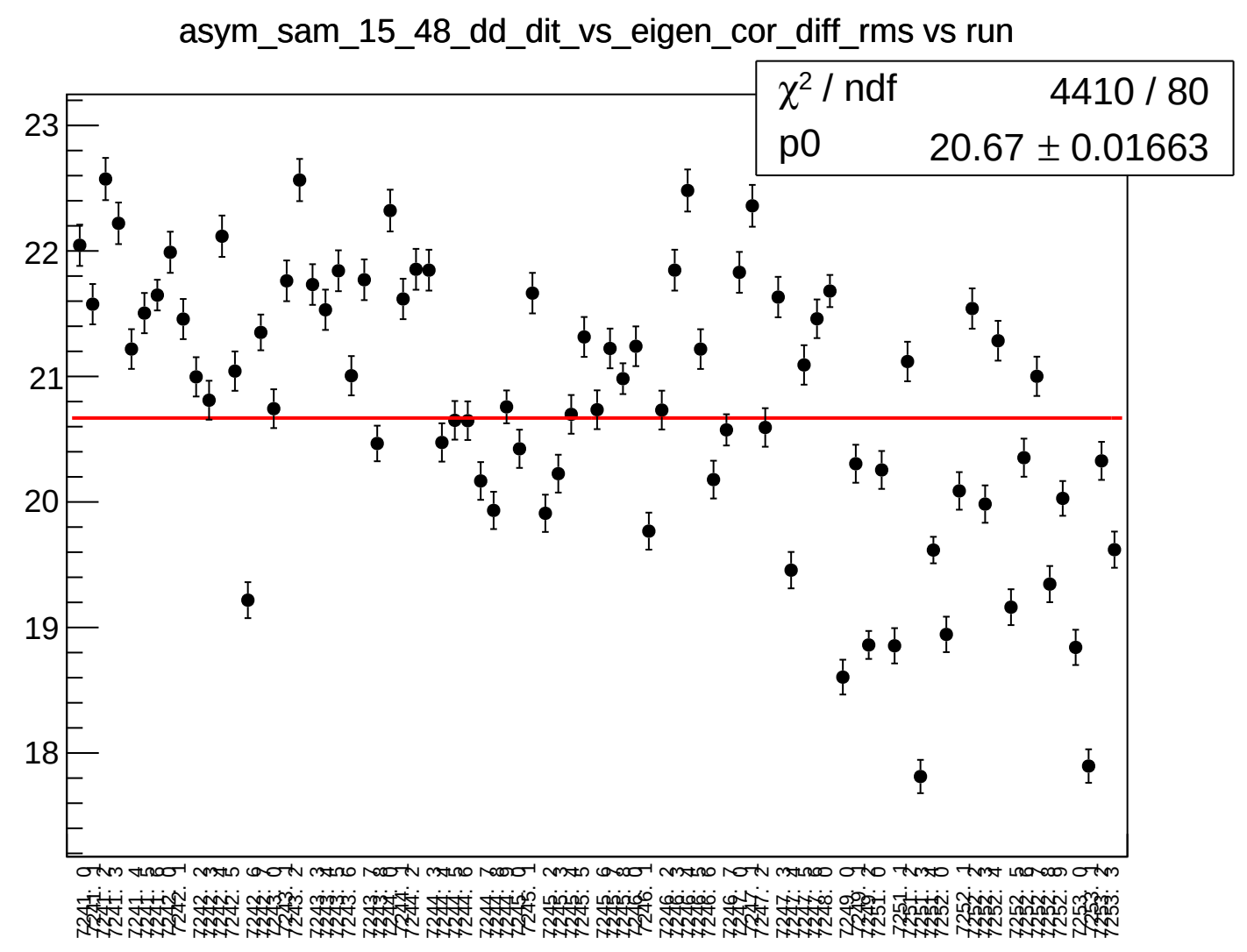

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.082e+06 / 80
p0 6.809e−12 ± 9.966e−15
0.025
0.02
0.015
0.01
0.005
0

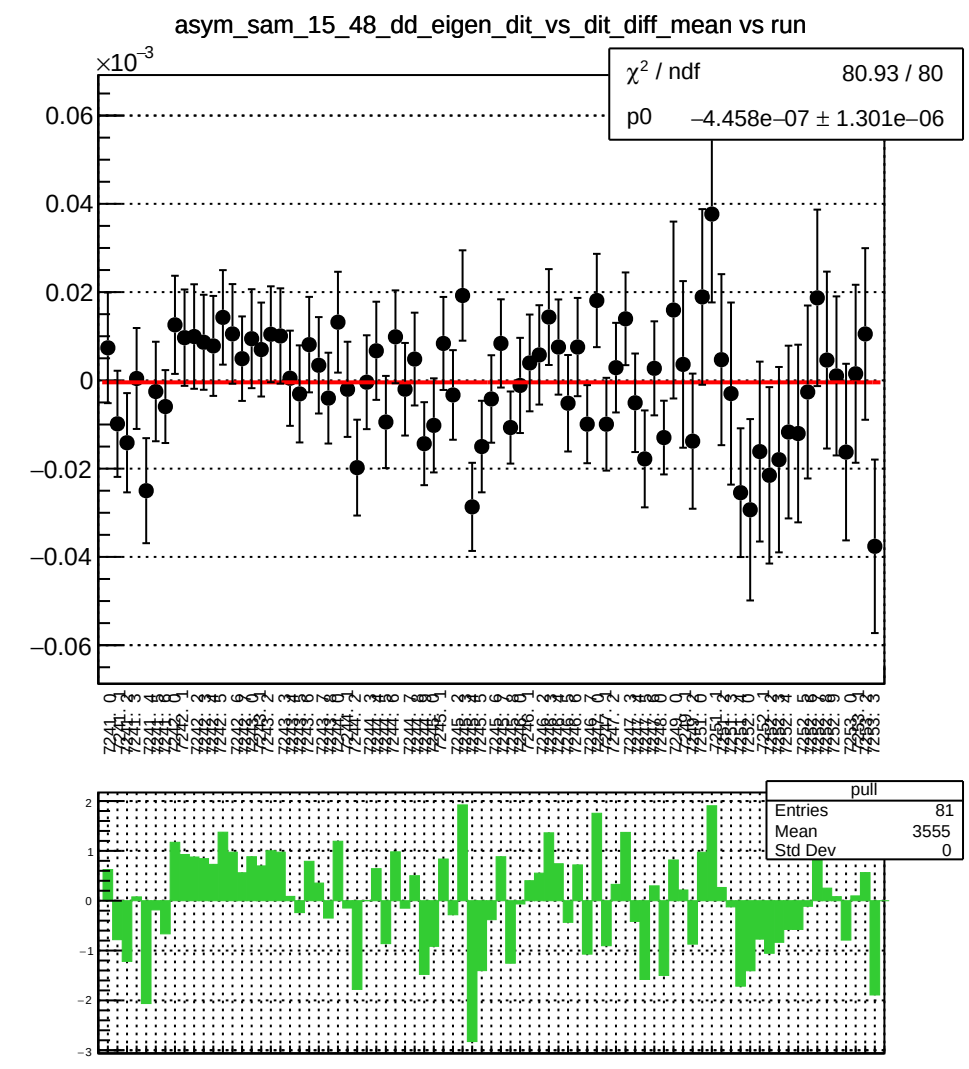

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 88 / 80
p0 0.0009826 ± 0.02352
pull
Entries 81
Mean 143.8
Std Dev 0

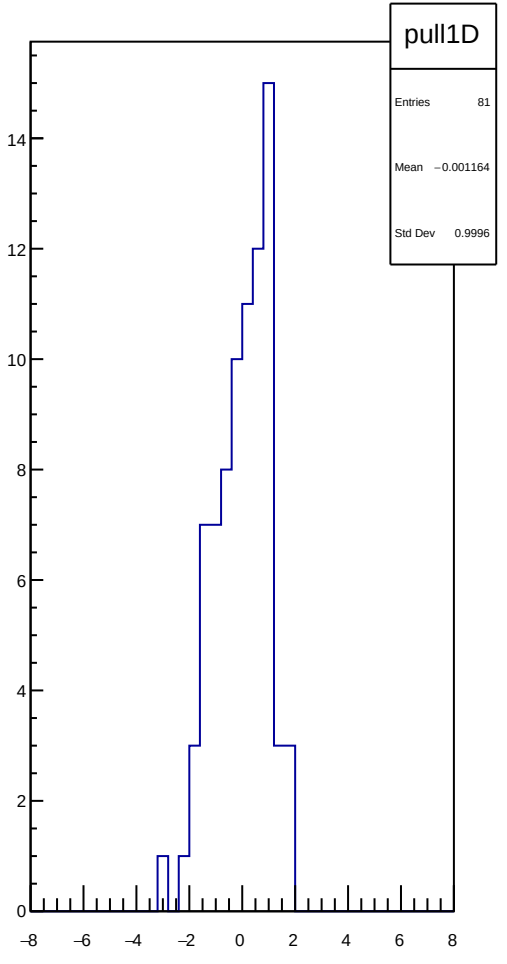

pull1D
Entries 81
Mean 0.0176
Std Dev 1.042

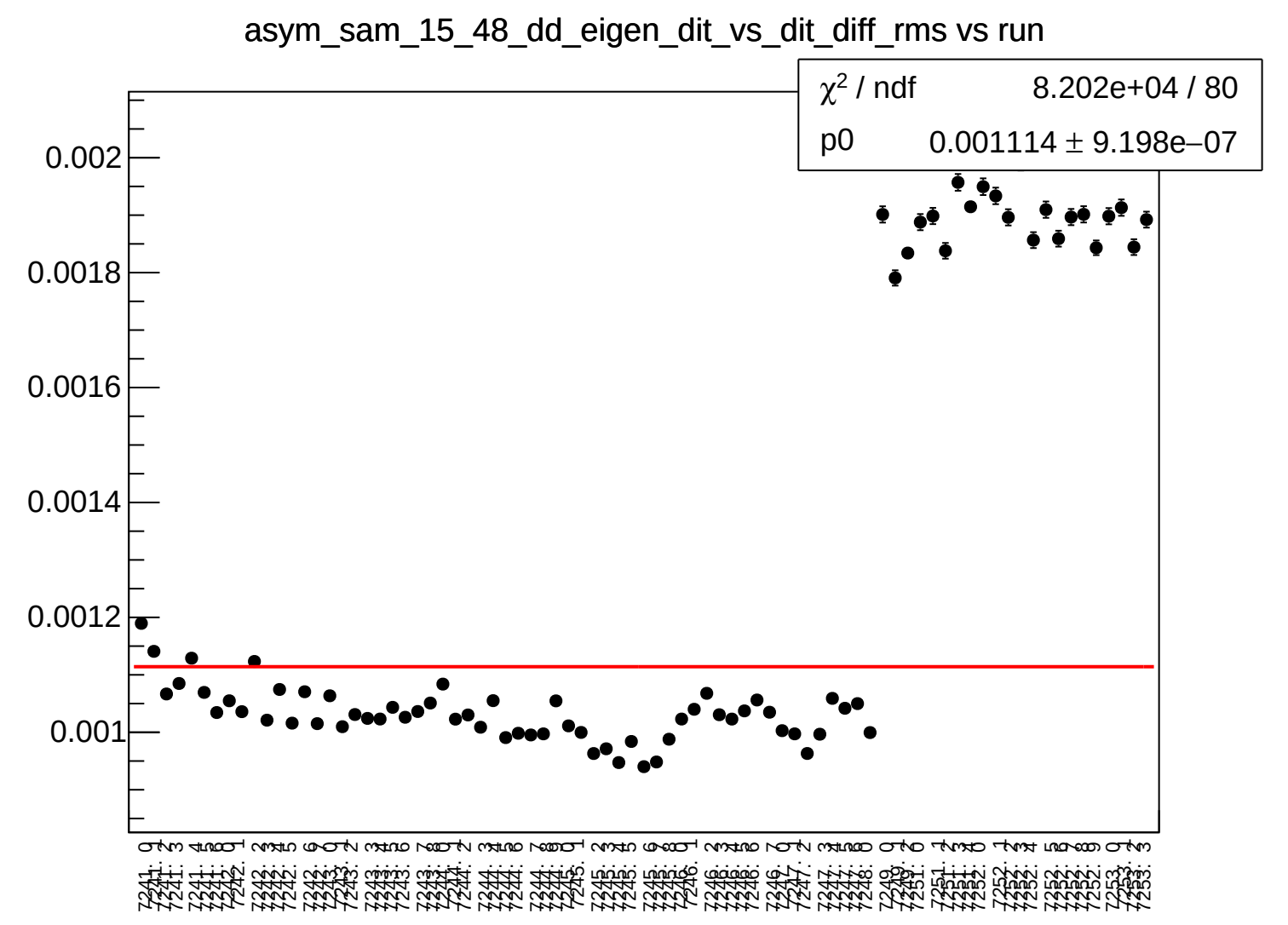

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4410 / 80
p0 20.67 ± 0.01663
23
22
21
20
19
18

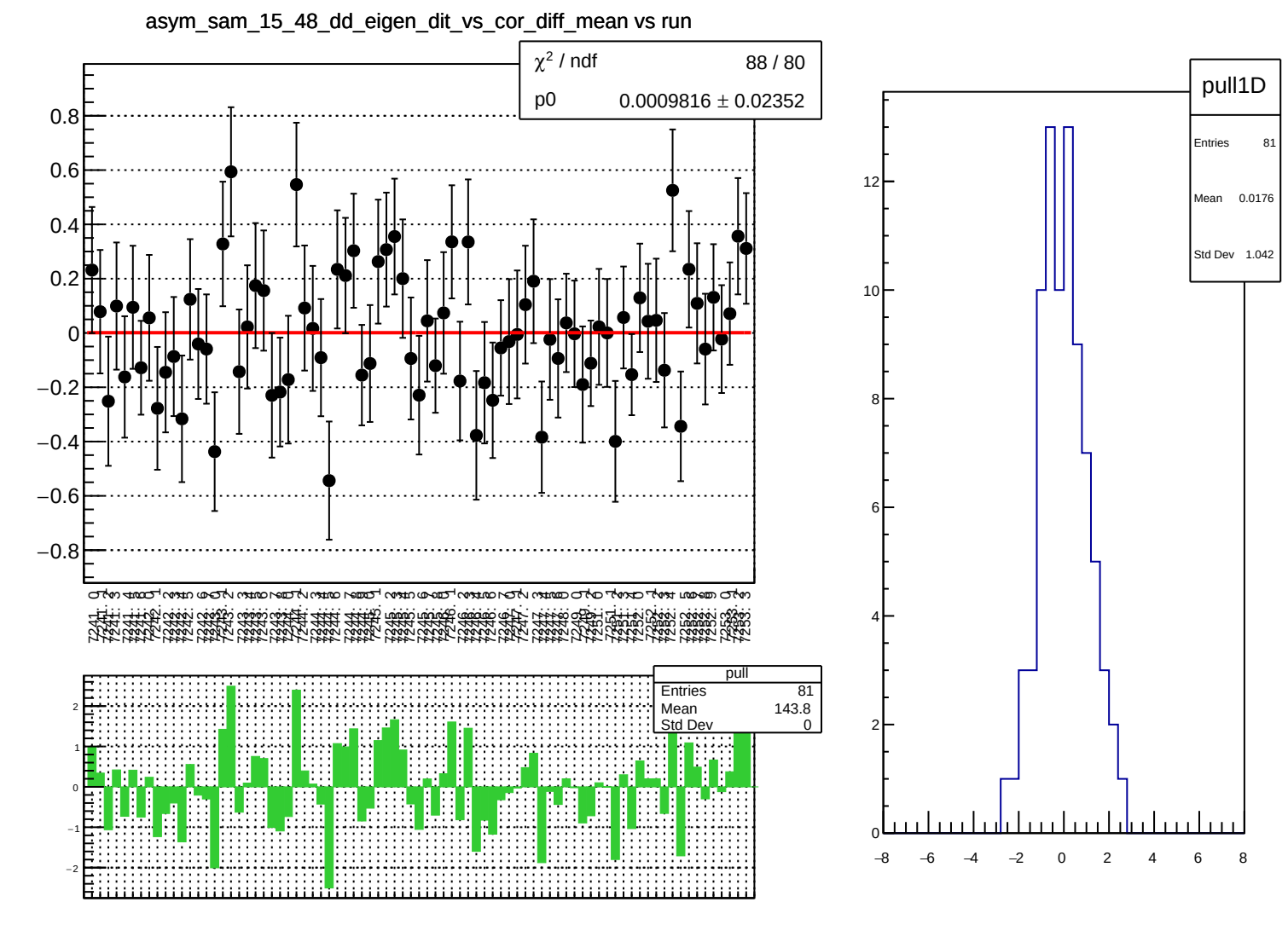

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88 / 80
p0 0.0009826 ± 0.02352
pull
Entries 81
Mean 143.8
Std Dev 0
pull1D
Entries 81
Mean 0.0176
Std Dev 1.042

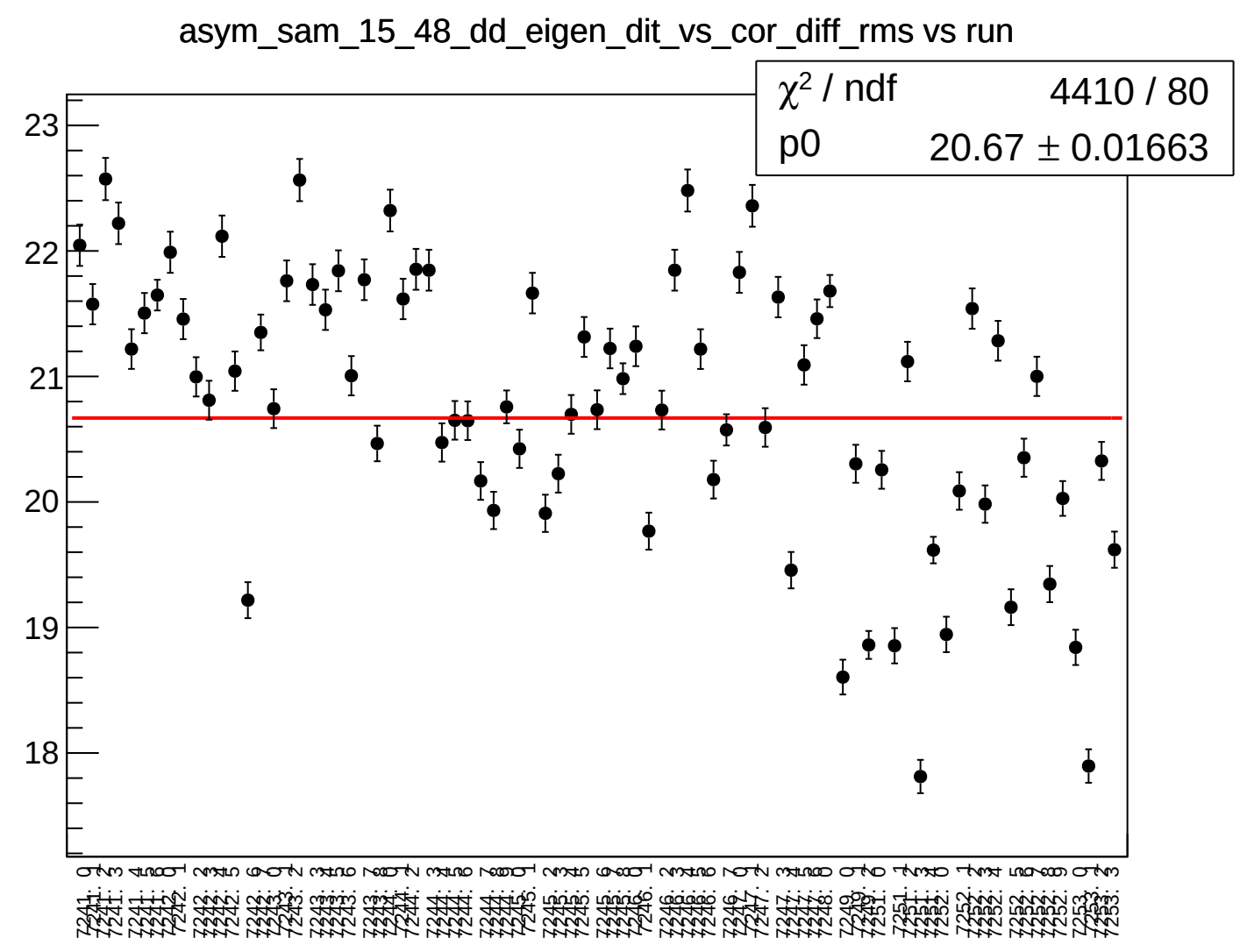

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4410 / 80
p0 20.67 ± 0.01663
23
22
21
20
19
18

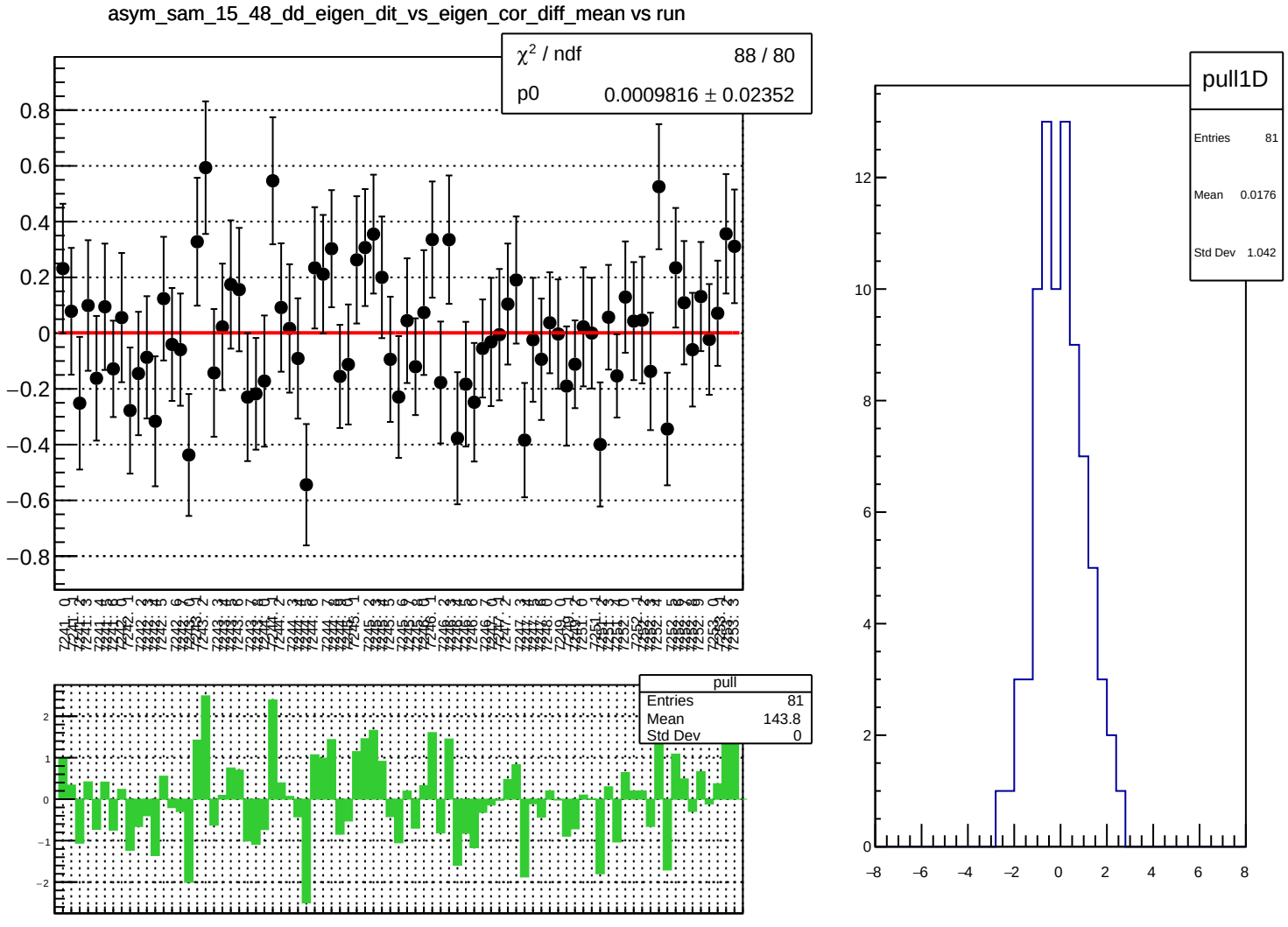

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.93 / 80
p0 −4.458e−07 ± 1.301e−06
pull
Entries 81
Mean 3555
Std Dev 0

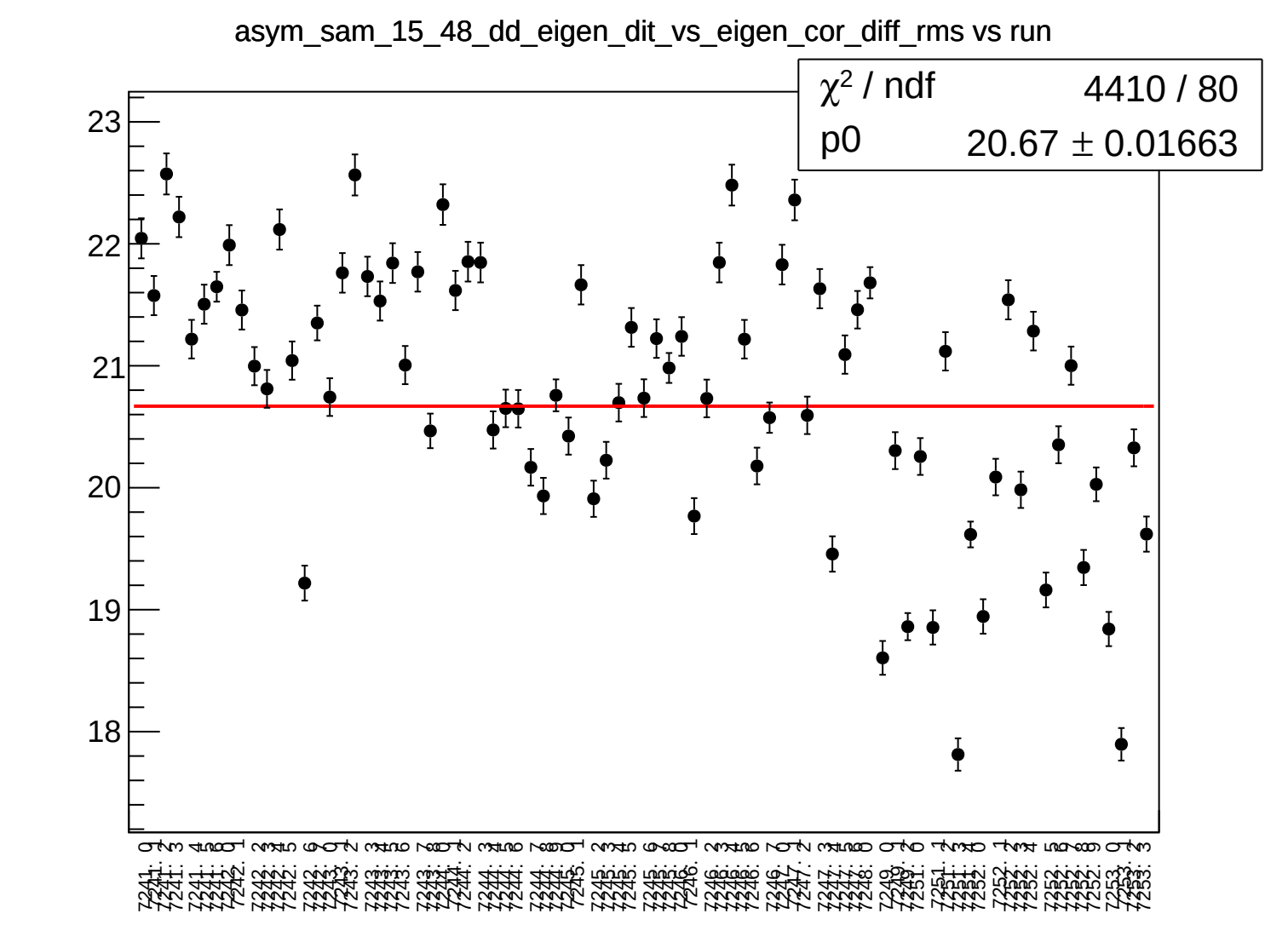

pull1D
Entries 81
Mean −0.001164
Std Dev 0.9996

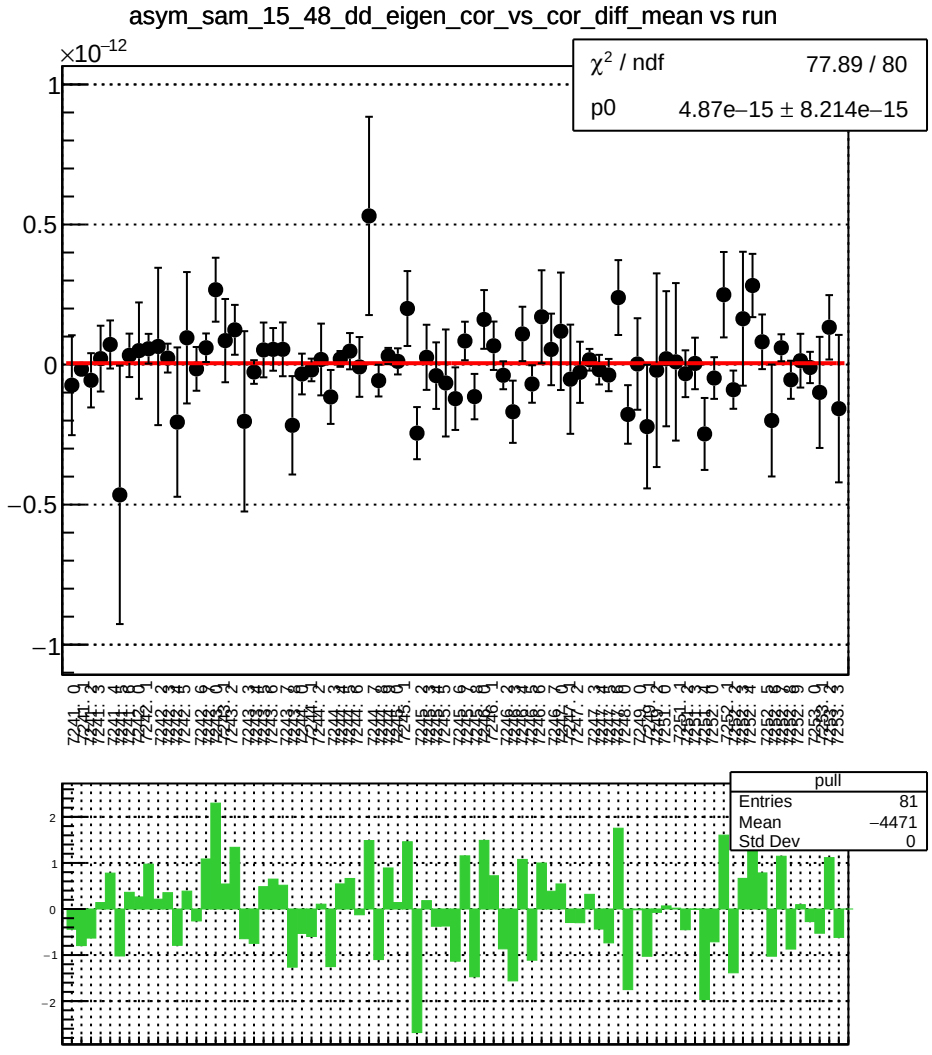

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.202e+04 / 80
p0 0.001114 ± 9.198e−07
0.002
0.0018
0.0016
0.0014
0.0012
0.001

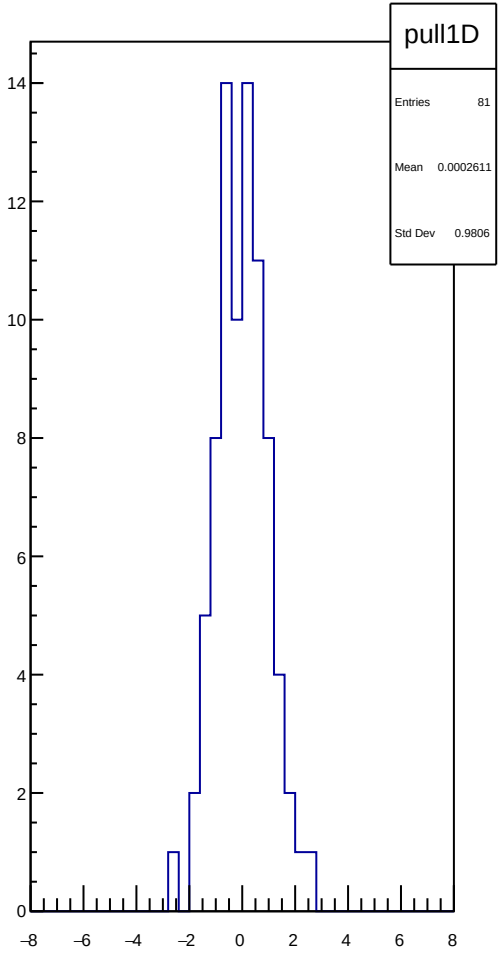

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88 / 80
p0 0.0009816 ± 0.02352
pull
Entries 81
Mean 143.8
Std Dev 0
pull1D
Entries 81
Mean 0.0176
Std Dev 1.042

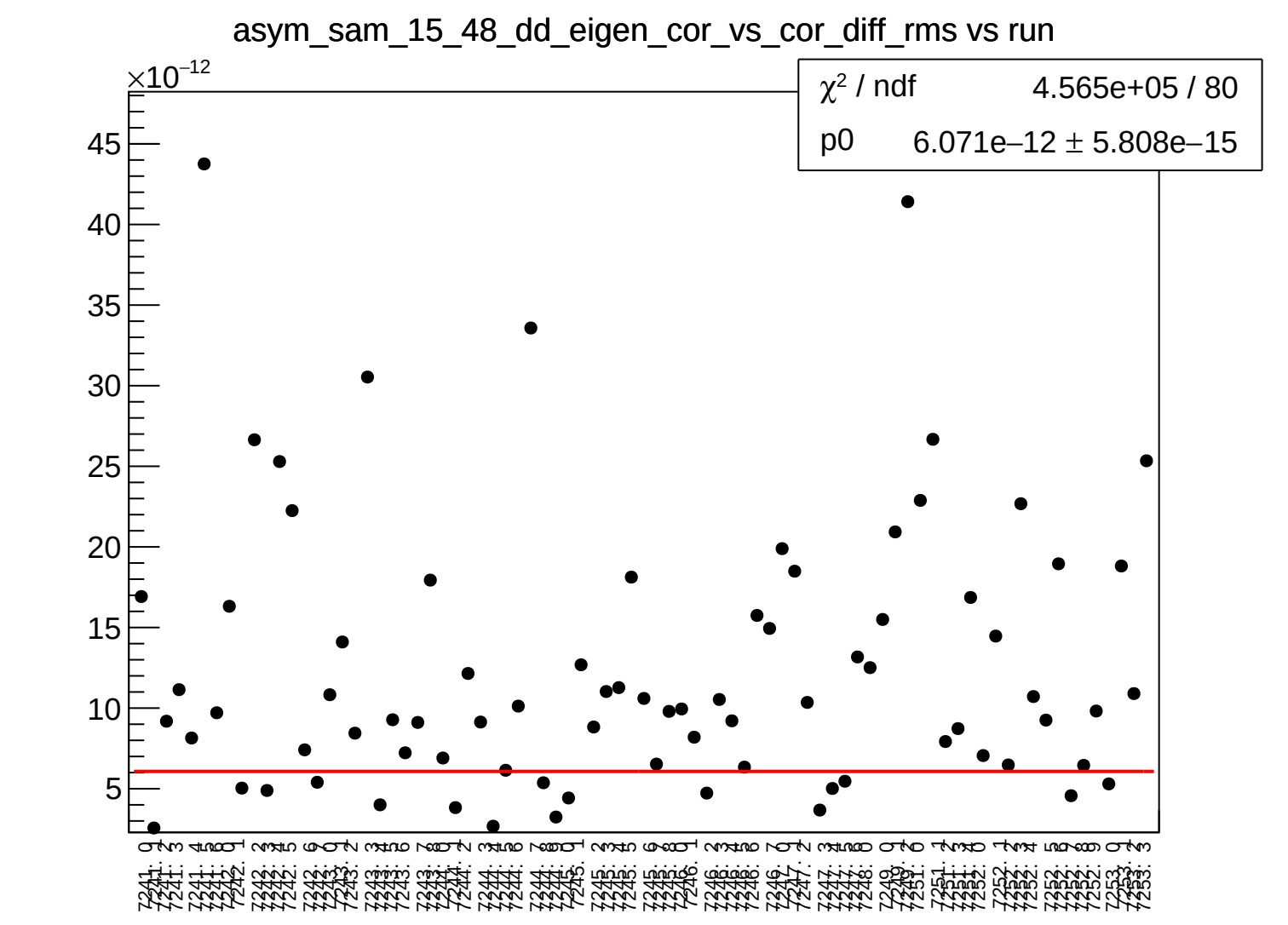

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4410 / 80
p0 20.67 ± 0.01663
23
22
21
20
19
18

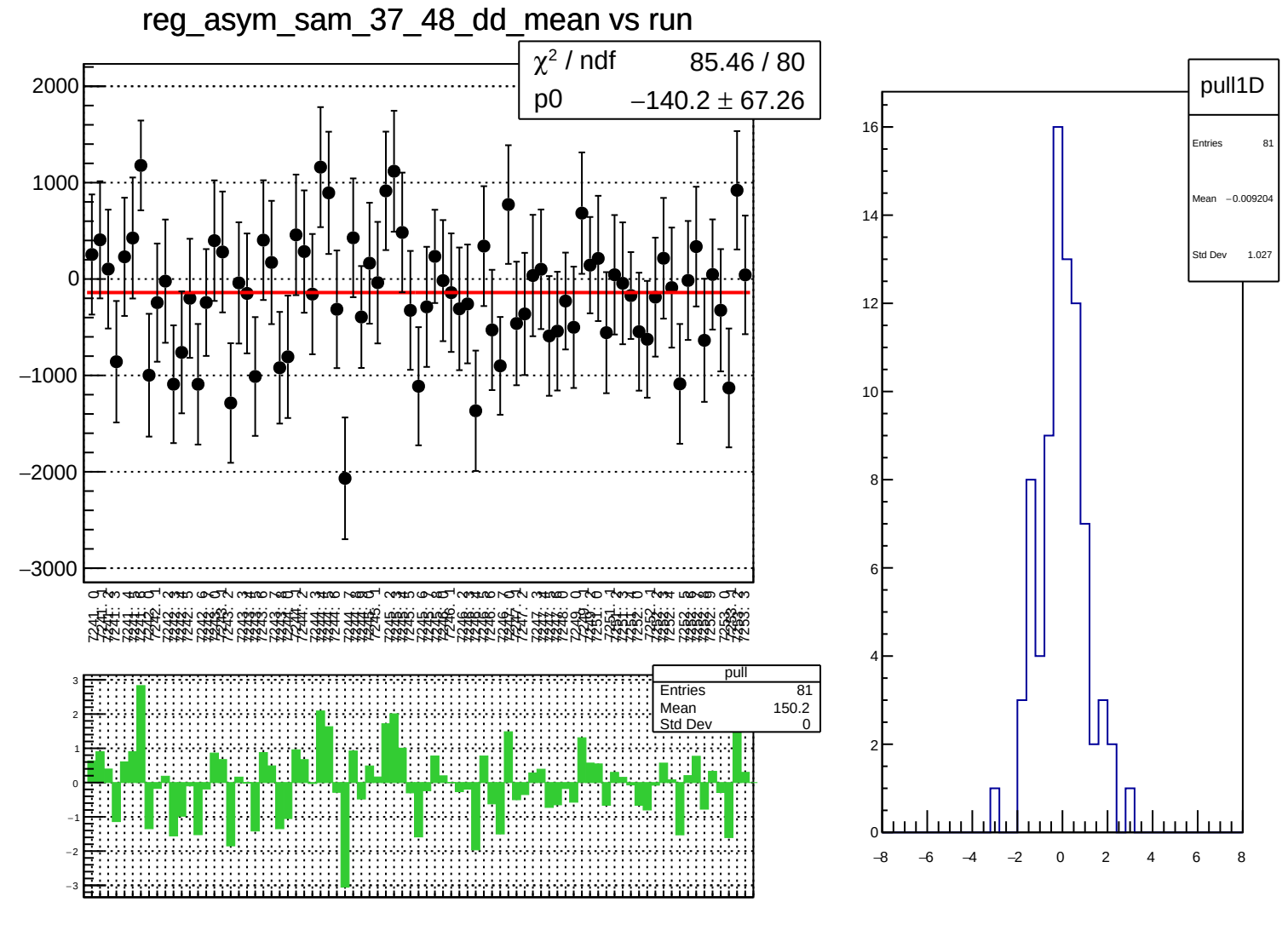

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88 / 80
p0 0.0009816 ± 0.02352
pull
Entries 81
Mean 143.8
Std Dev 0
pull1D
Entries 81
Mean 0.0176
Std Dev 1.042

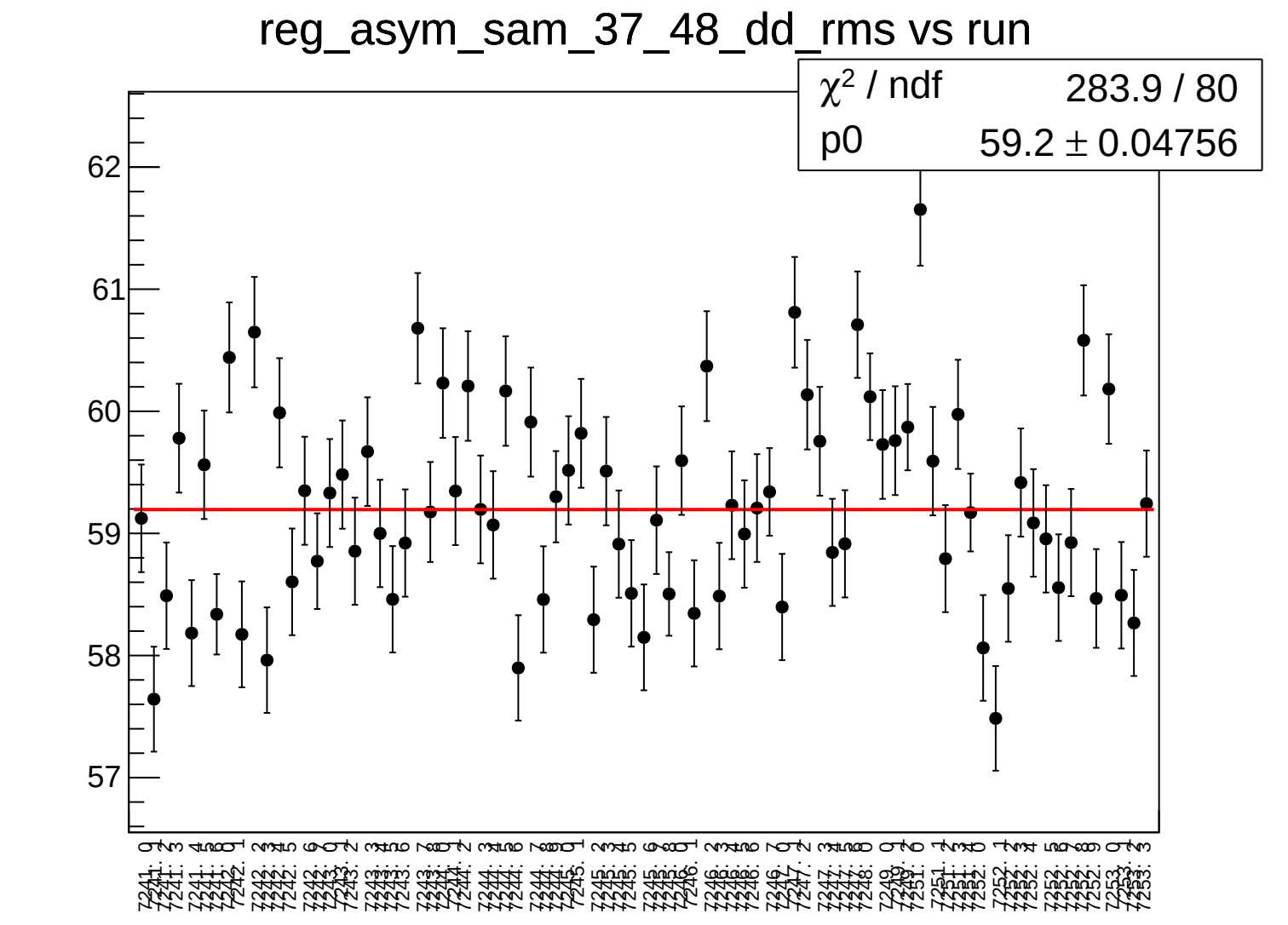

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4410 / 80
p0 20.67 ± 0.01663
23
22
21
20
19
18

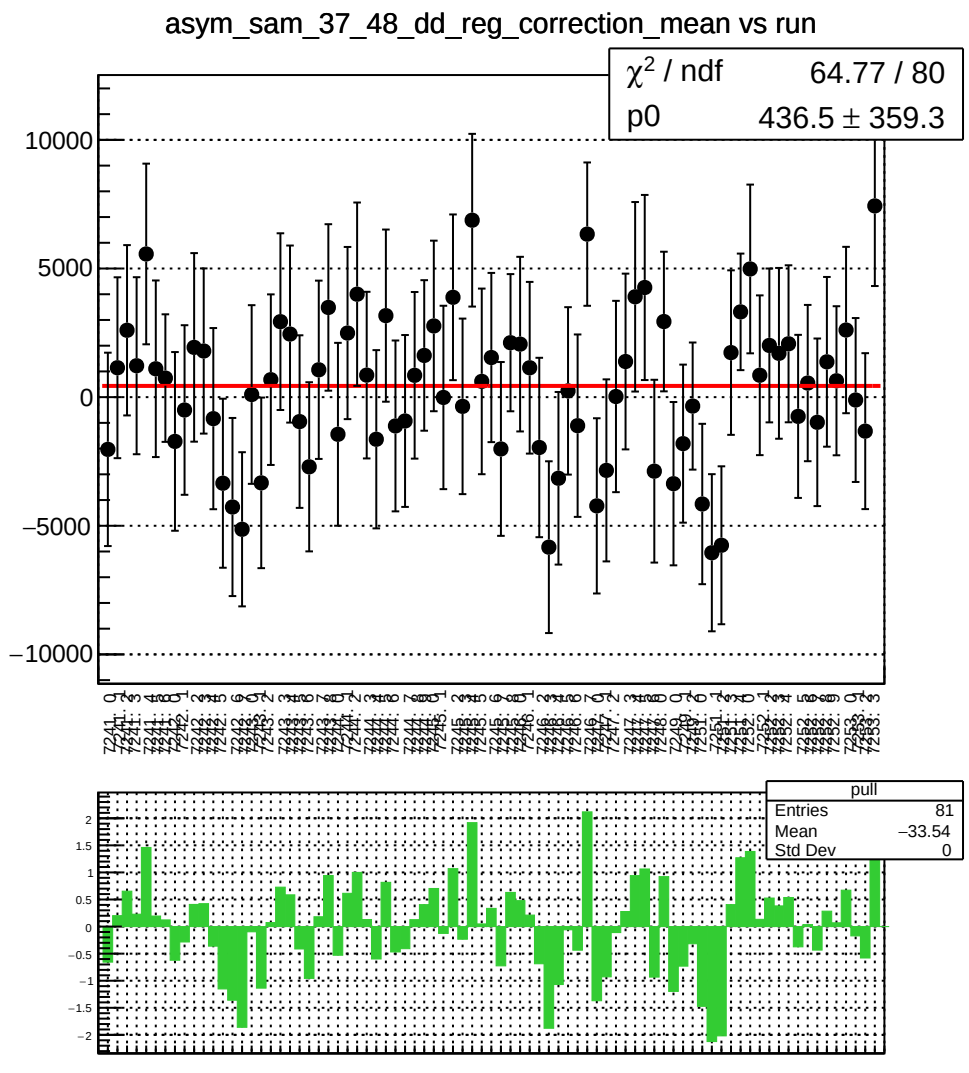

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 77.89 / 80
p0 4.87e−15 ± 8.214e−15
pull
Entries 81
Mean −4471
Std Dev 0

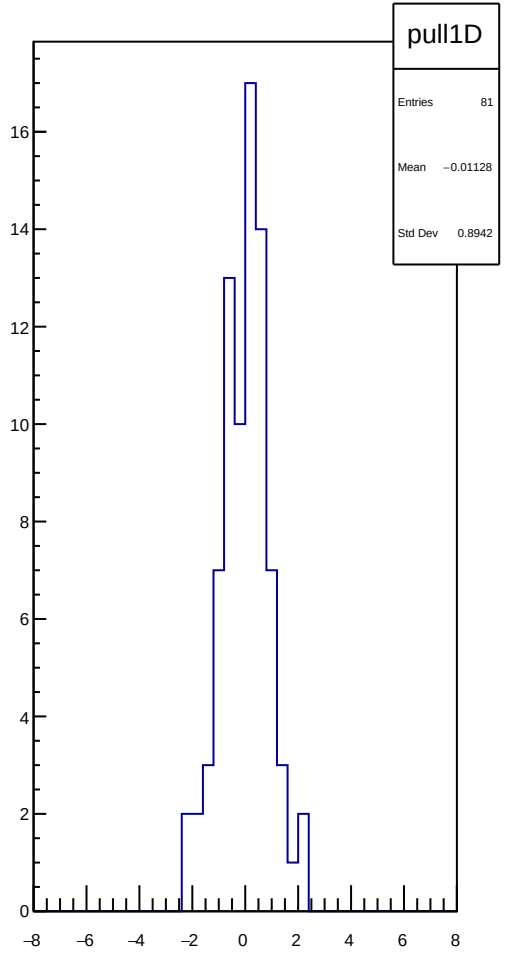

pull1D
Entries 81
Mean 0.0002611
Std Dev 0.9806

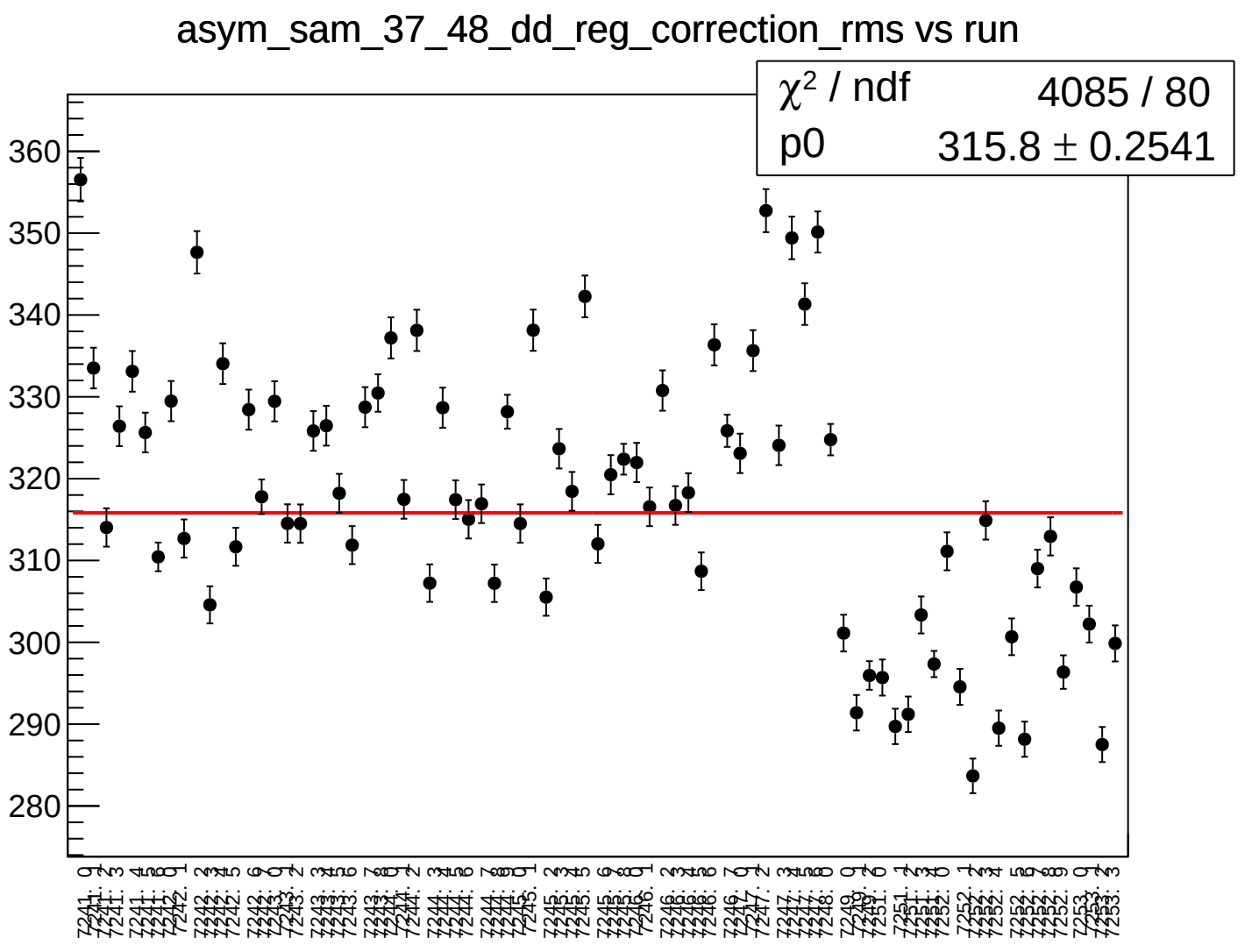

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.565e+05 / 80
p0 6.071e−12 ± 5.808e−15
45
40
35
30
25
20
15
10
5

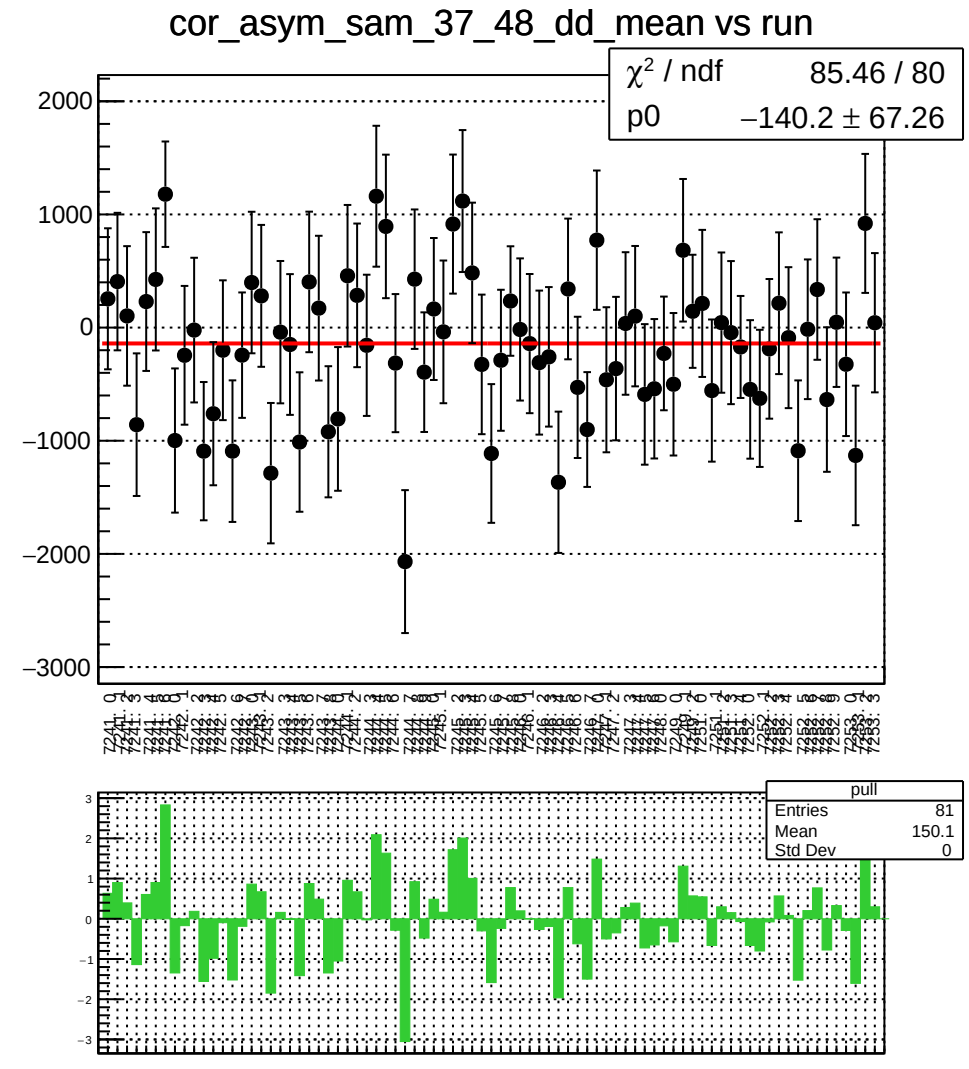

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 85.46 / 80
p0 −140.2 ± 67.26
2000
1000
0
−1000
−2000
−3000
pull
Entries 81
Mean 150.2
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 81
Mean −0.009204
Std Dev 1.027
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

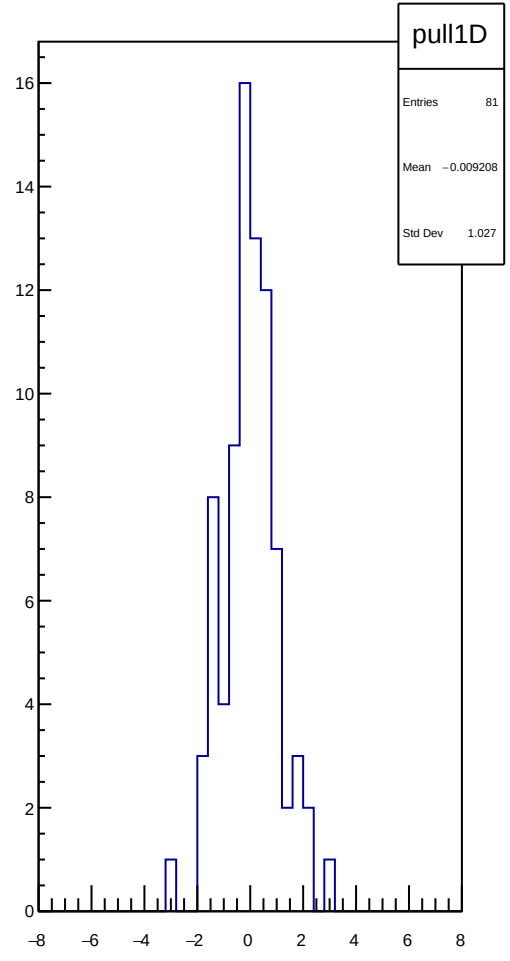

reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 283.9 / 80
p0 59.2 ± 0.04756
62
61
60
59
58
57

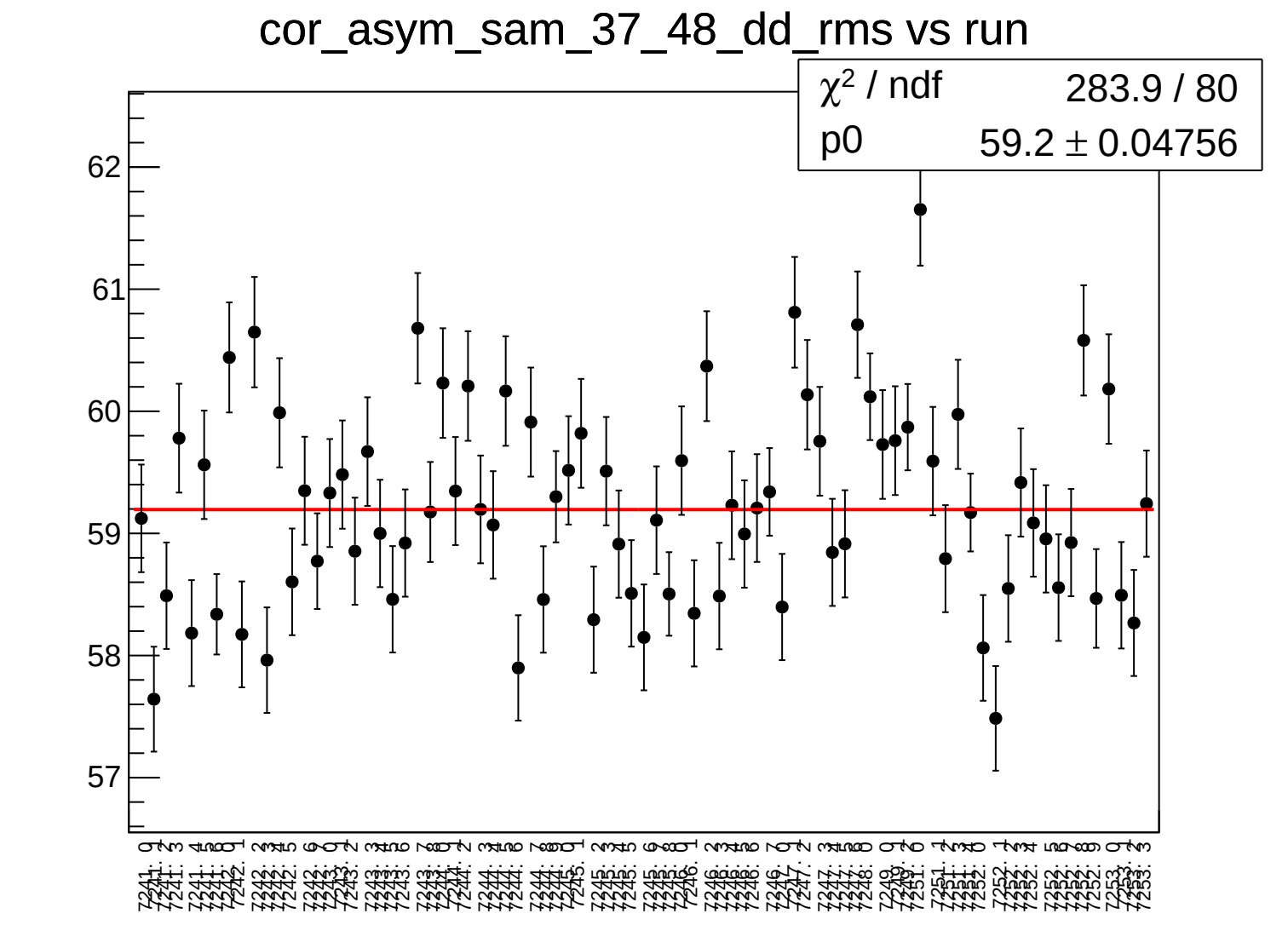

asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 64.77 / 80
p0 436.5 ± 359.3
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −33.54
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

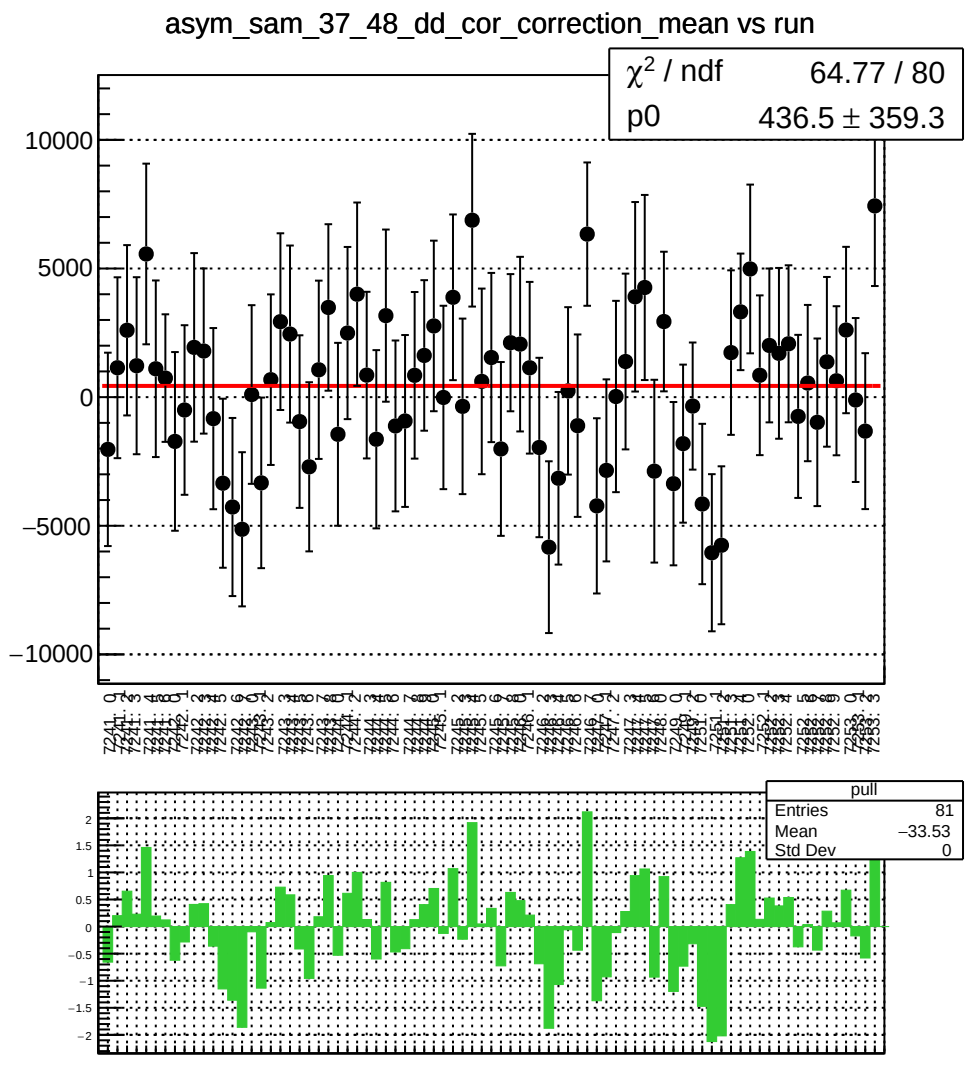

pull1D
Entries 81
Mean −0.01128
Std Dev 0.8942
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

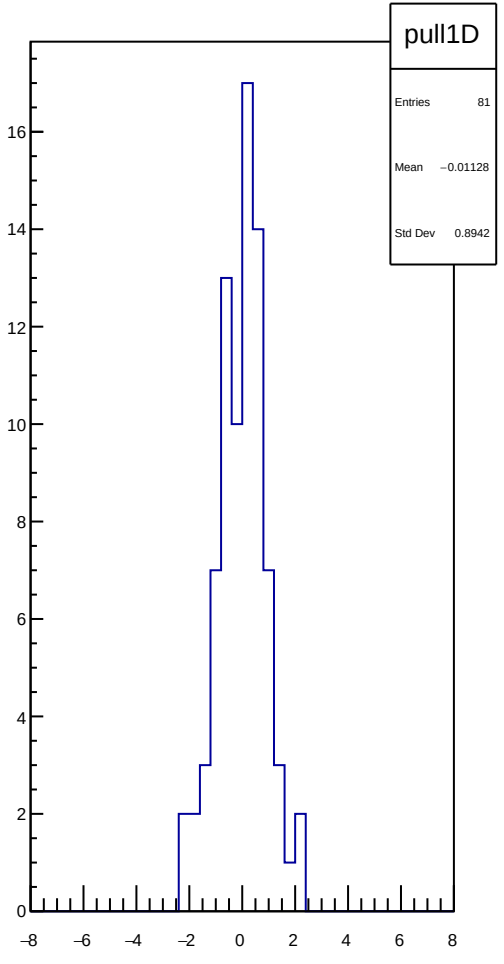

asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 4085 / 80
p0 315.8 ± 0.2541
360
350
340
330
320
310
300
290
280

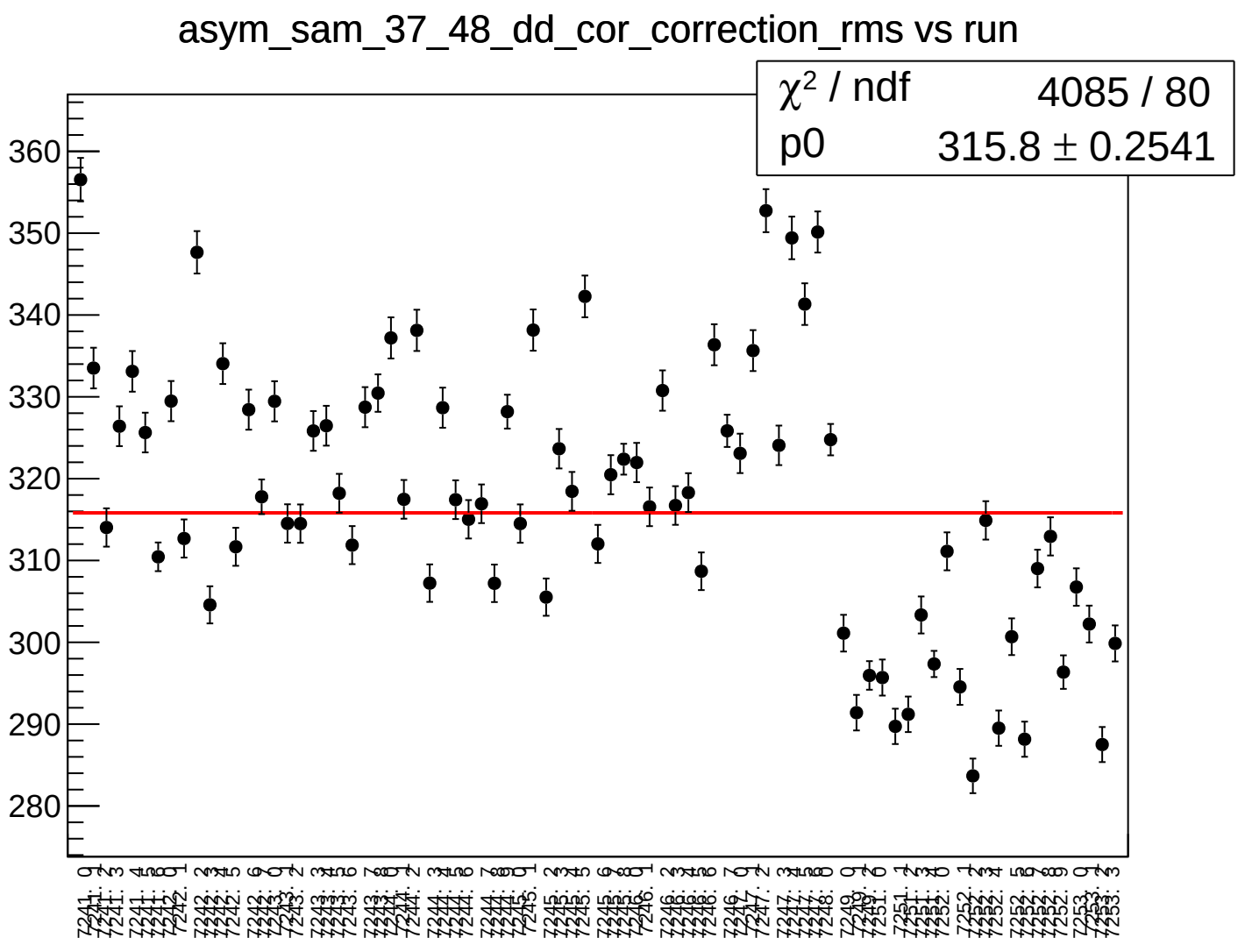

cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 85.46 / 80
p0 −140.2 ± 67.26
pull
Entries 81
Mean 150.1
Std Dev 0

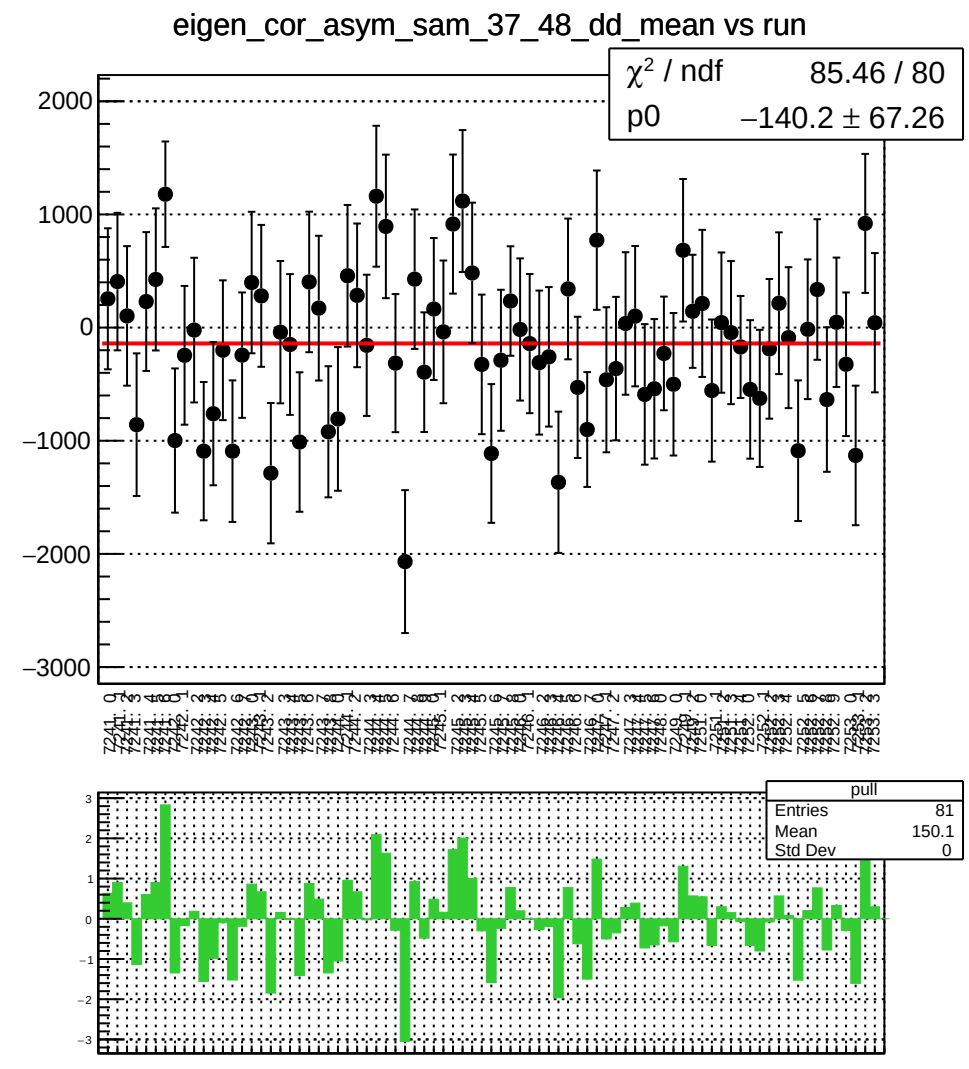

pull1D
Entries 81
Mean −0.009208
Std Dev 1.027

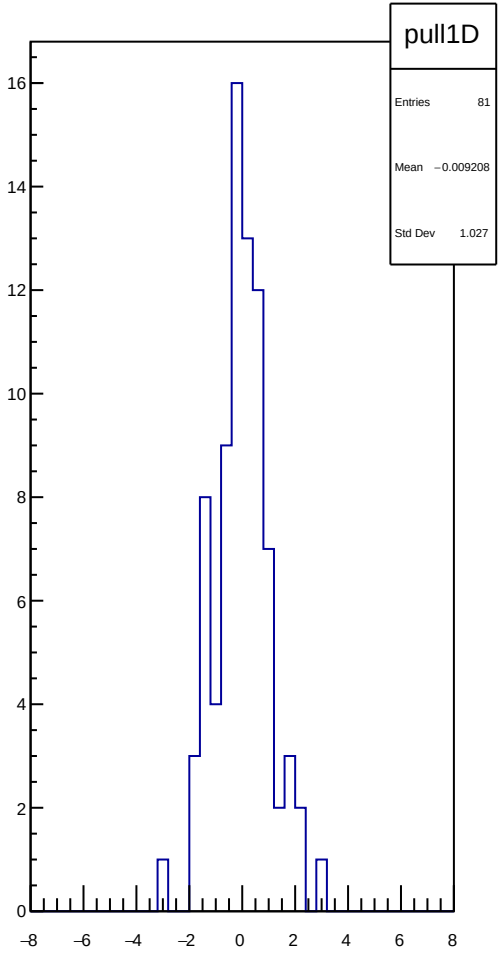

cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 283.9 / 80
p0 59.2 ± 0.04756
62
61
60
59
58
57

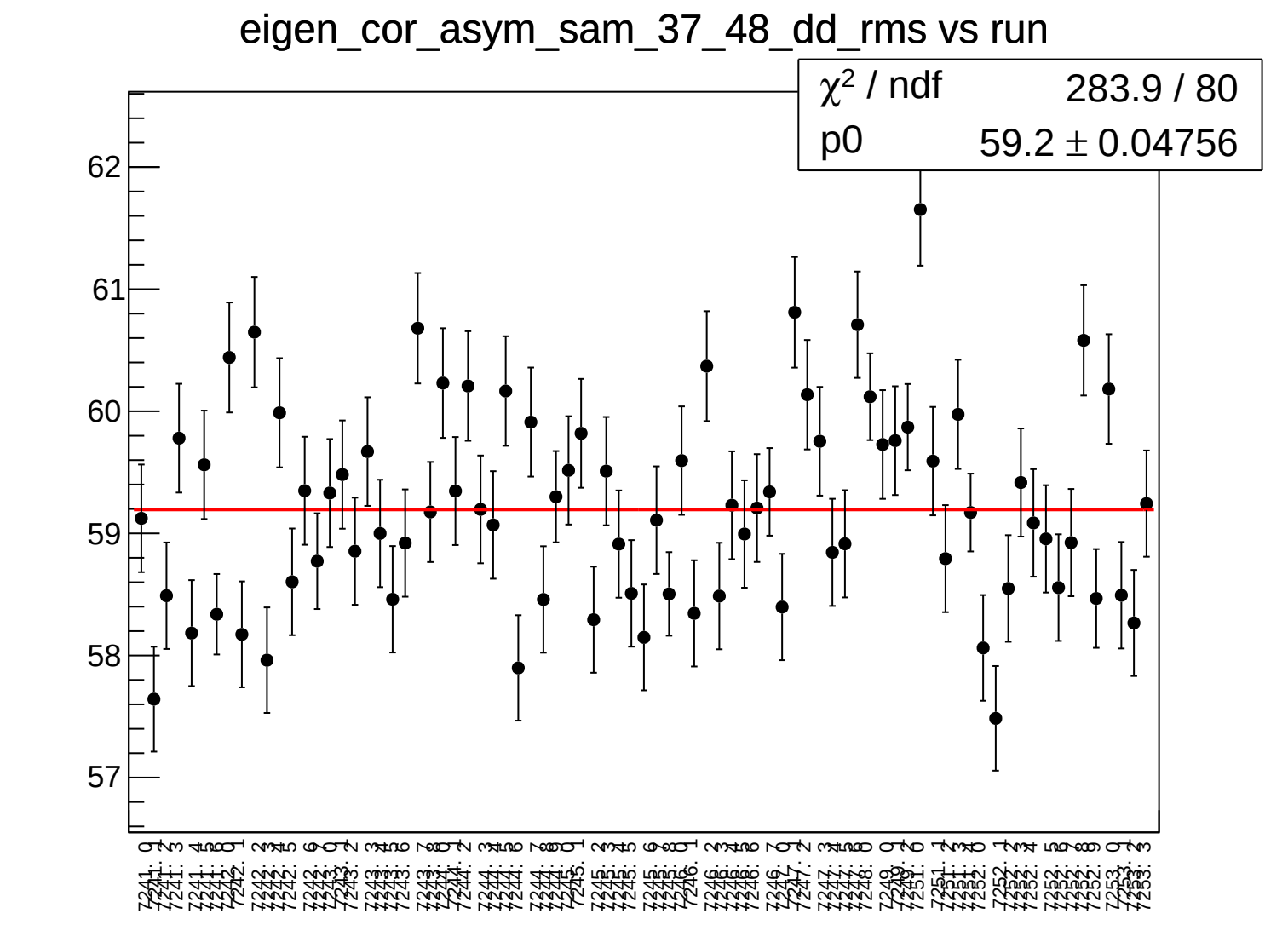

asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 64.77 / 80
p0 436.5 ± 359.3
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −33.53
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

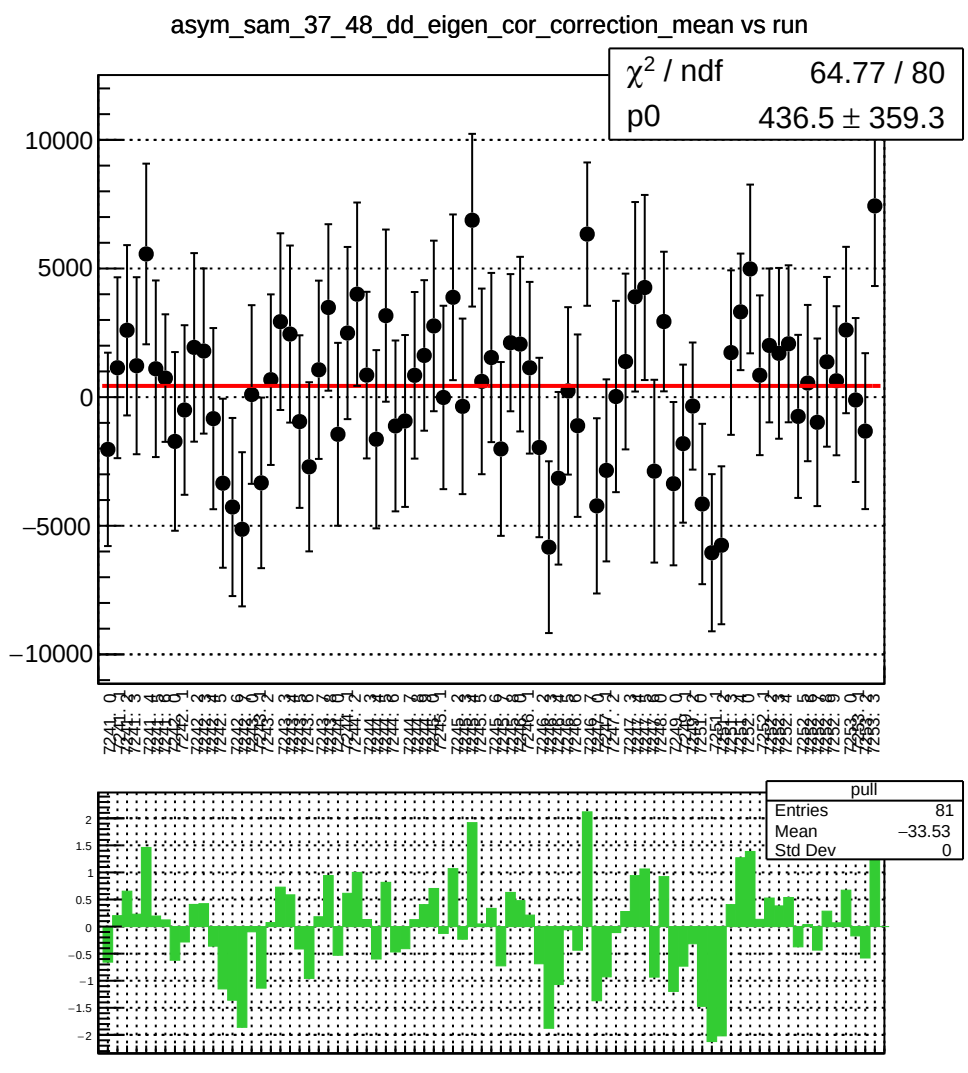

pull1D
Entries 81
Mean −0.01128
Std Dev 0.8942
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

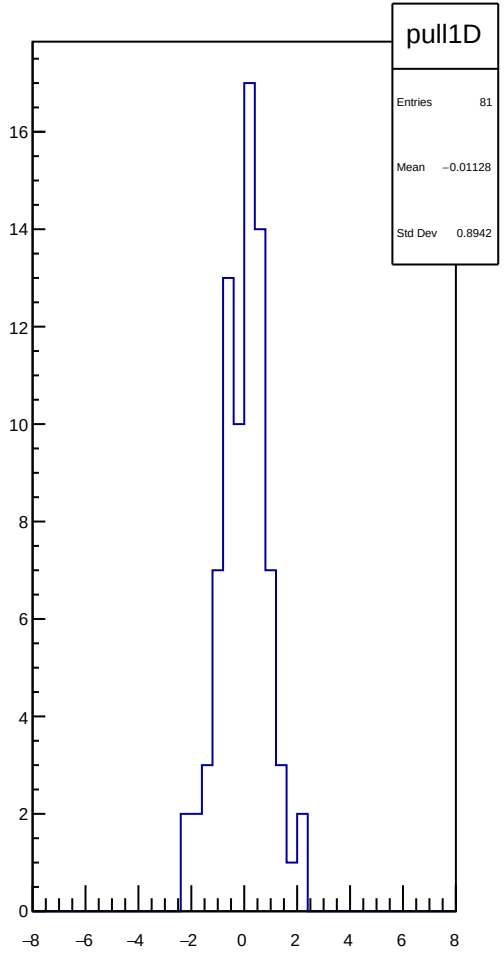

asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 4085 / 80
p0 315.8 ± 0.2541
360
350
340
330
320
310
300
290
280

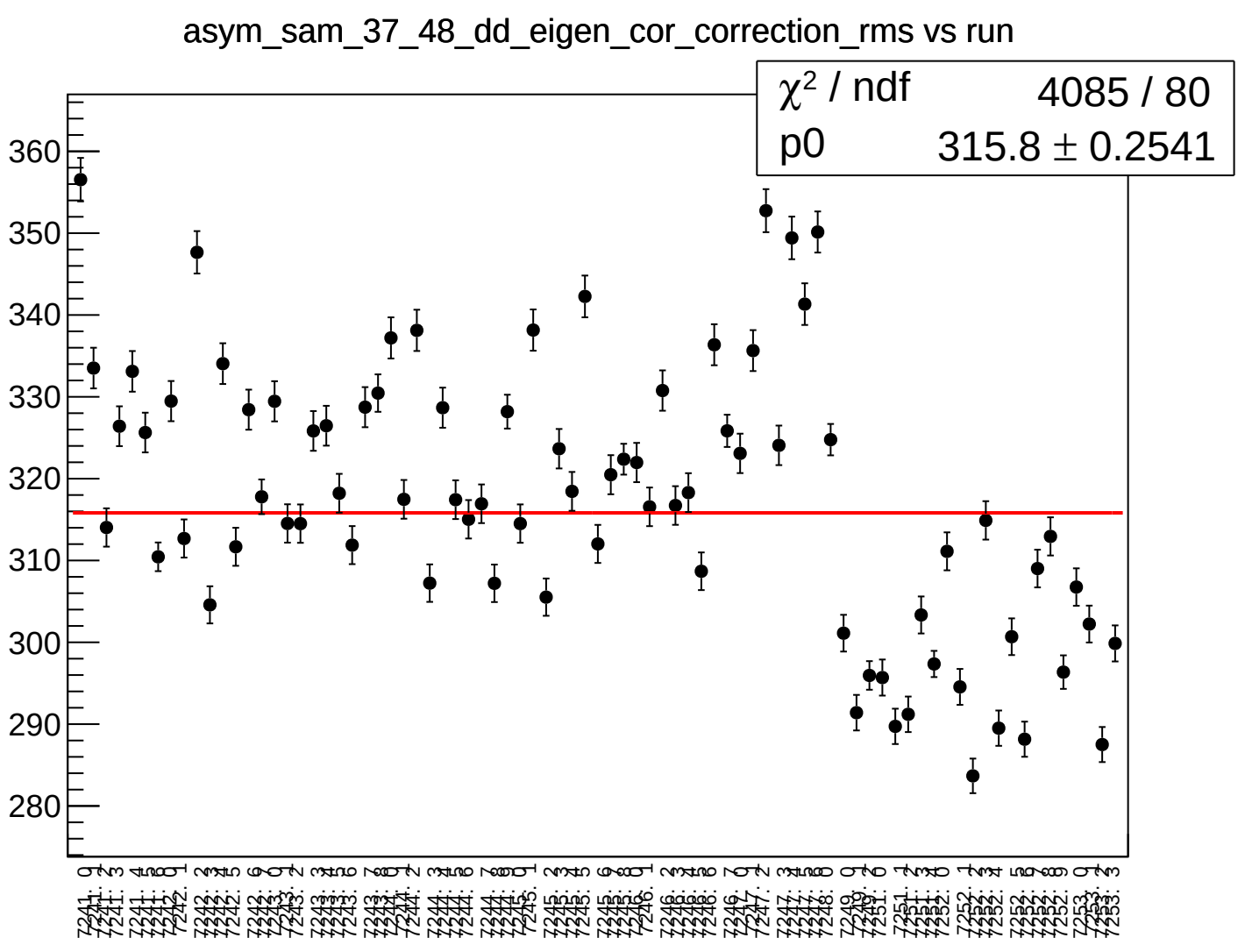

eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 85.46 / 80
p0 −140.2 ± 67.26
pull
Entries 81
Mean 150.1
Std Dev 0

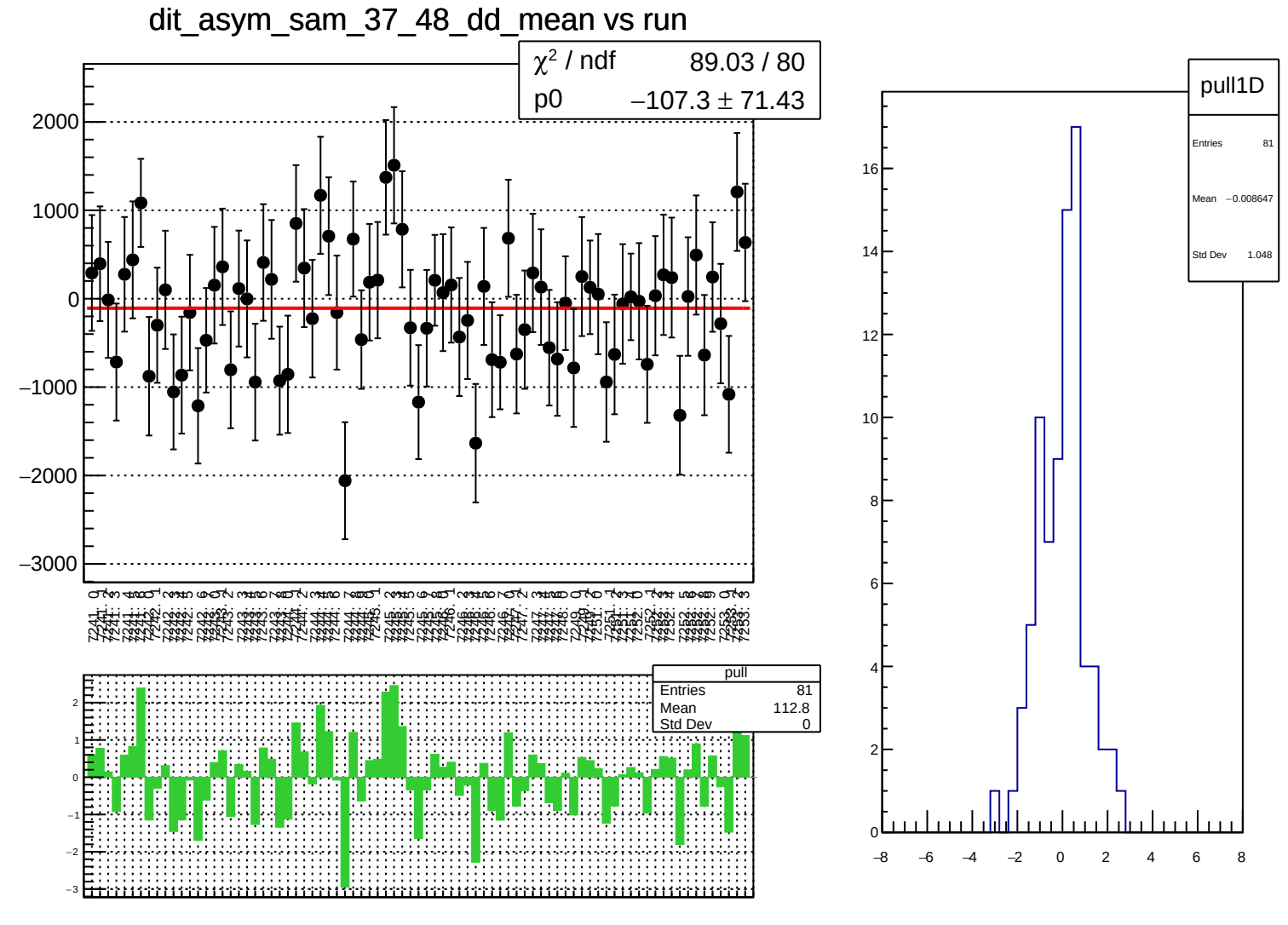

pull1D
Entries 81
Mean −0.009208
Std Dev 1.027

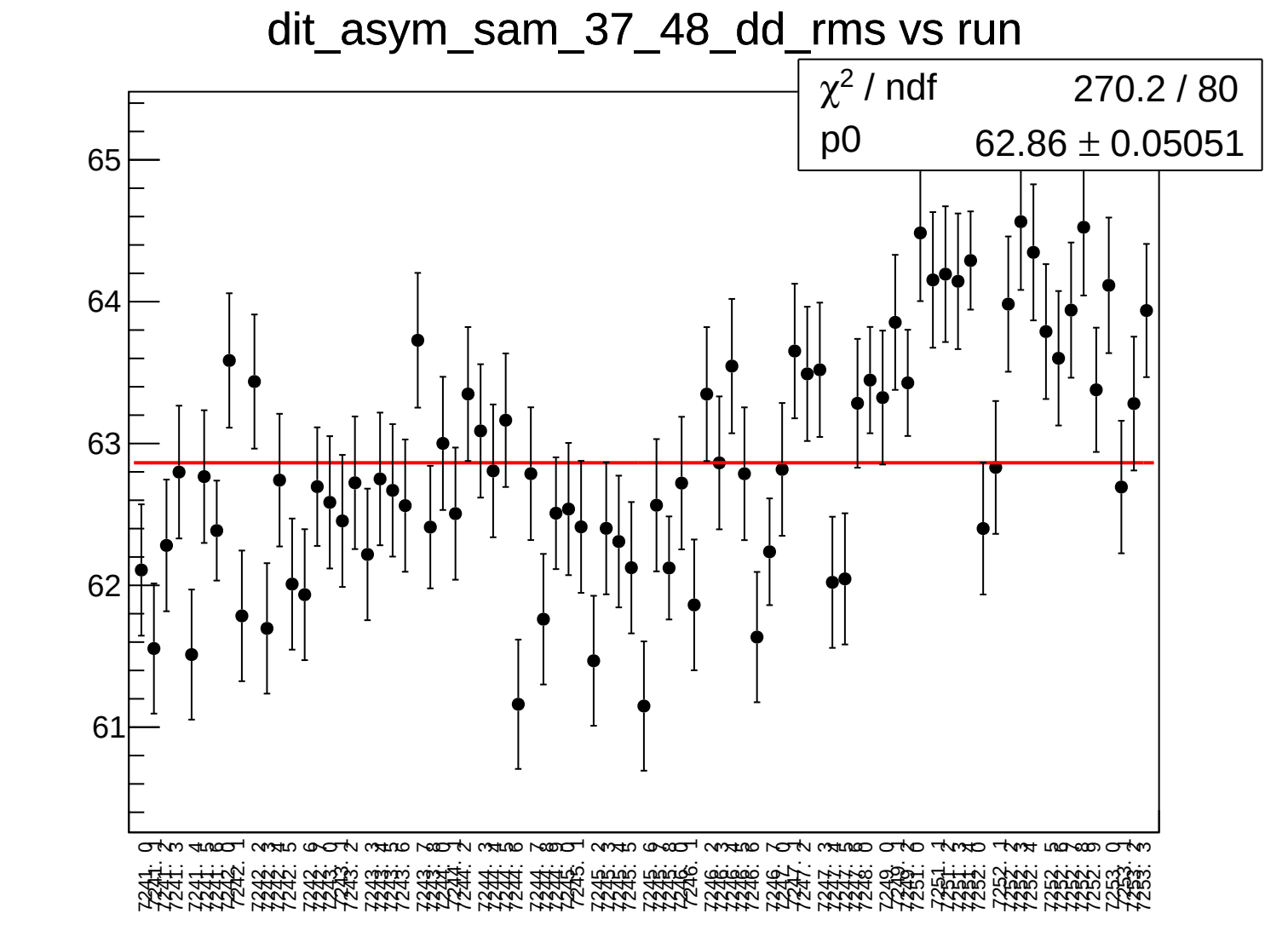

eigen_cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 283.9 / 80
p0 59.2 ± 0.04756
62
61
60
59
58
57

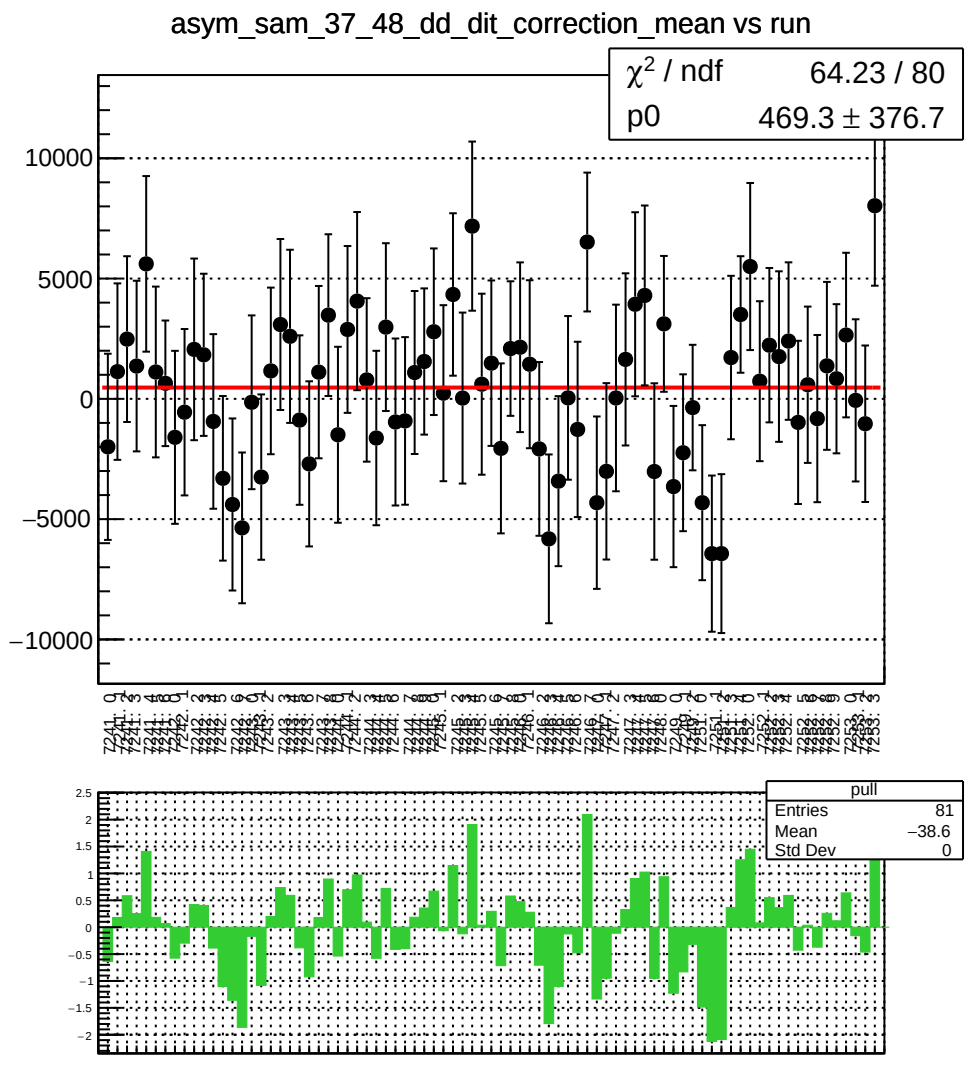

asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 64.77 / 80
p0 436.5 ± 359.3
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −33.53
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

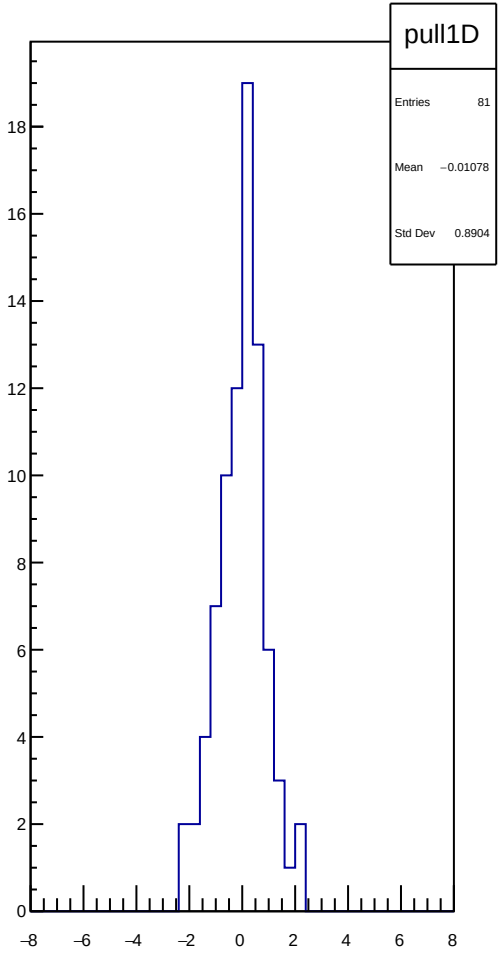

pull1D
Entries 81
Mean −0.01128
Std Dev 0.8942
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

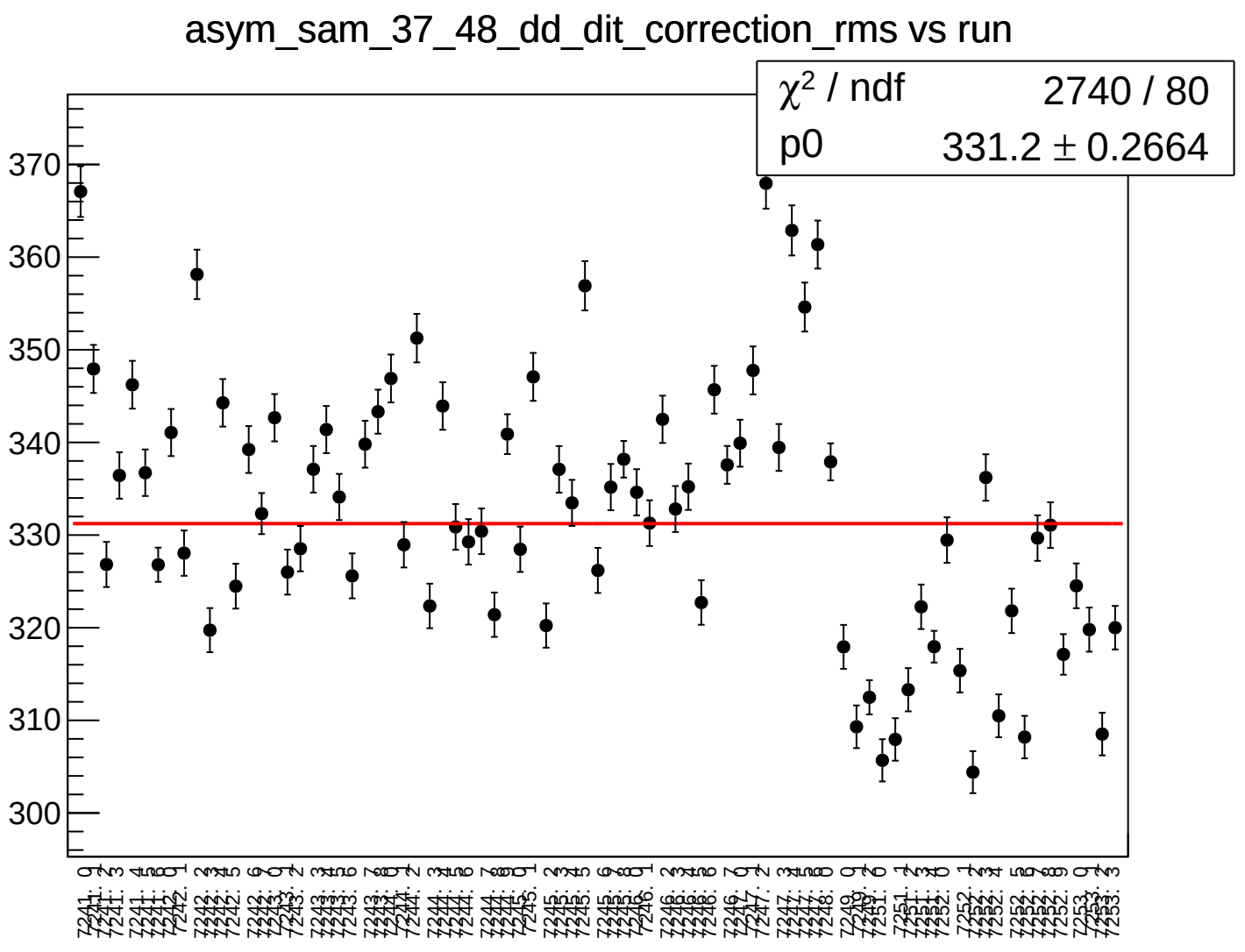

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 4085 / 80
p0 315.8 ± 0.2541
360
350
340
330
320
310
300
290
280

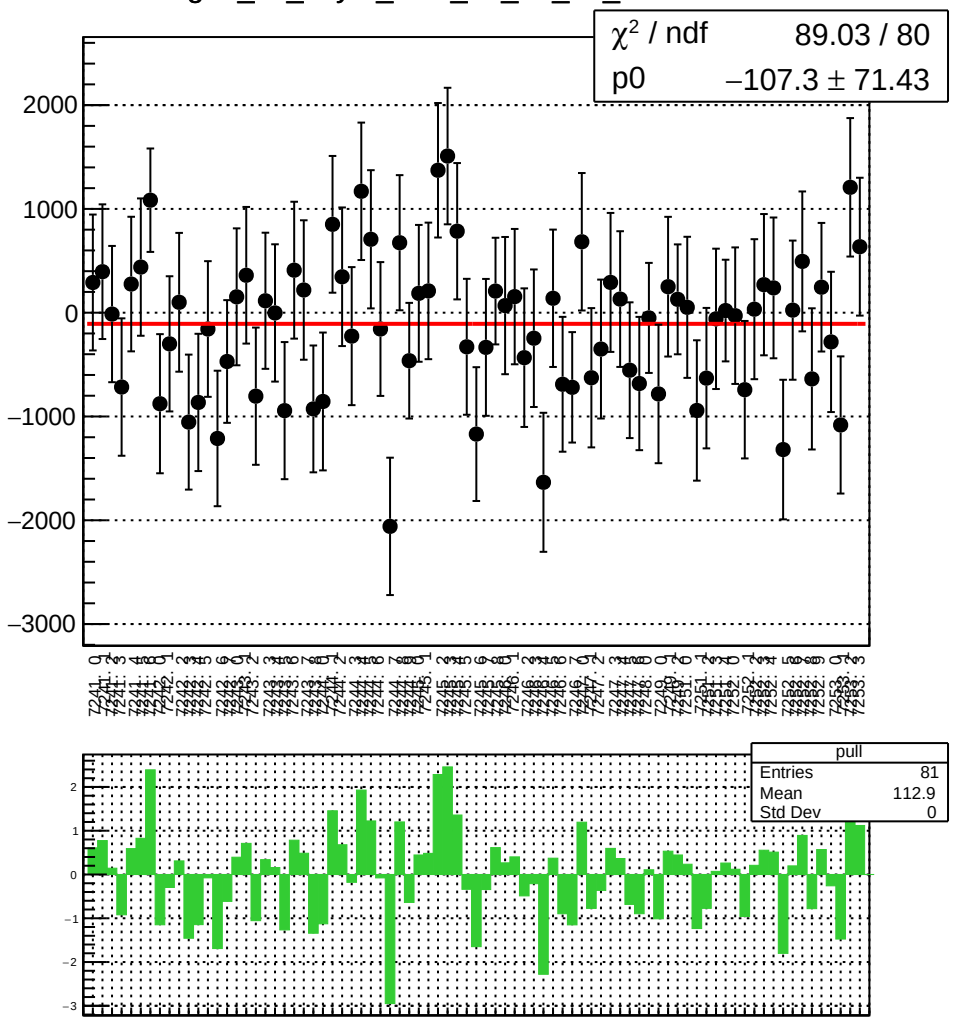

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 89.03 / 80
p0 −107.3 ± 71.43
2000
1000
0
−1000
−2000
−3000
pull
Entries 81
Mean 112.8
Std Dev 0
pull1D
Entries 81
Mean −0.008647
Std Dev 1.048
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

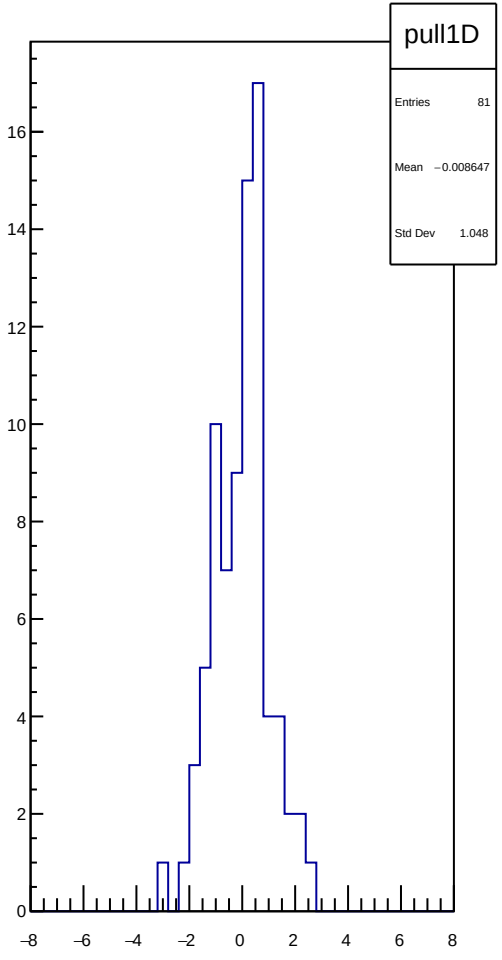

dit_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 270.2 / 80
p0 62.86 ± 0.05051
65
64
63
62
61

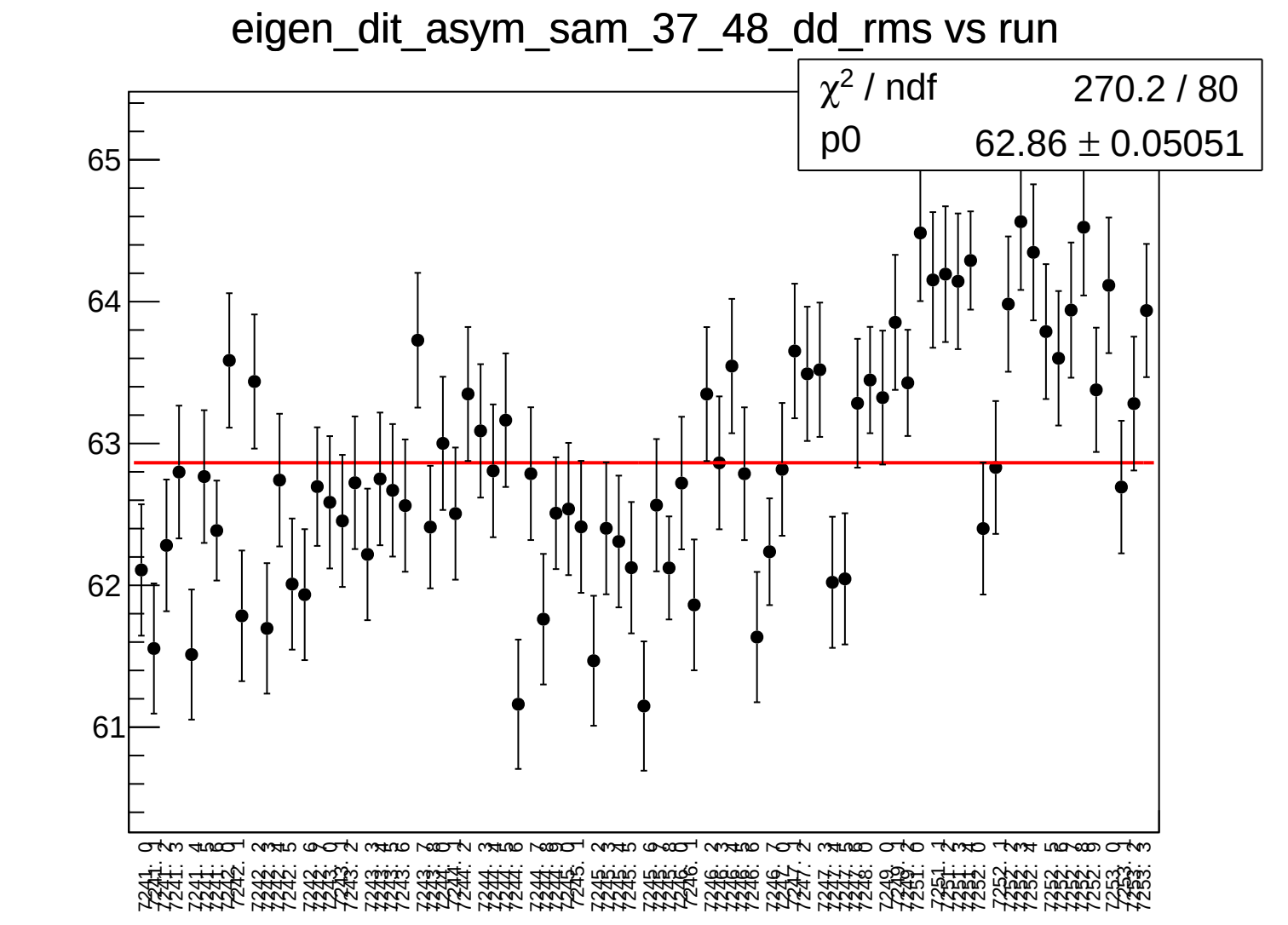

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 64.23 / 80
p0 469.3 ± 376.7
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −38.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

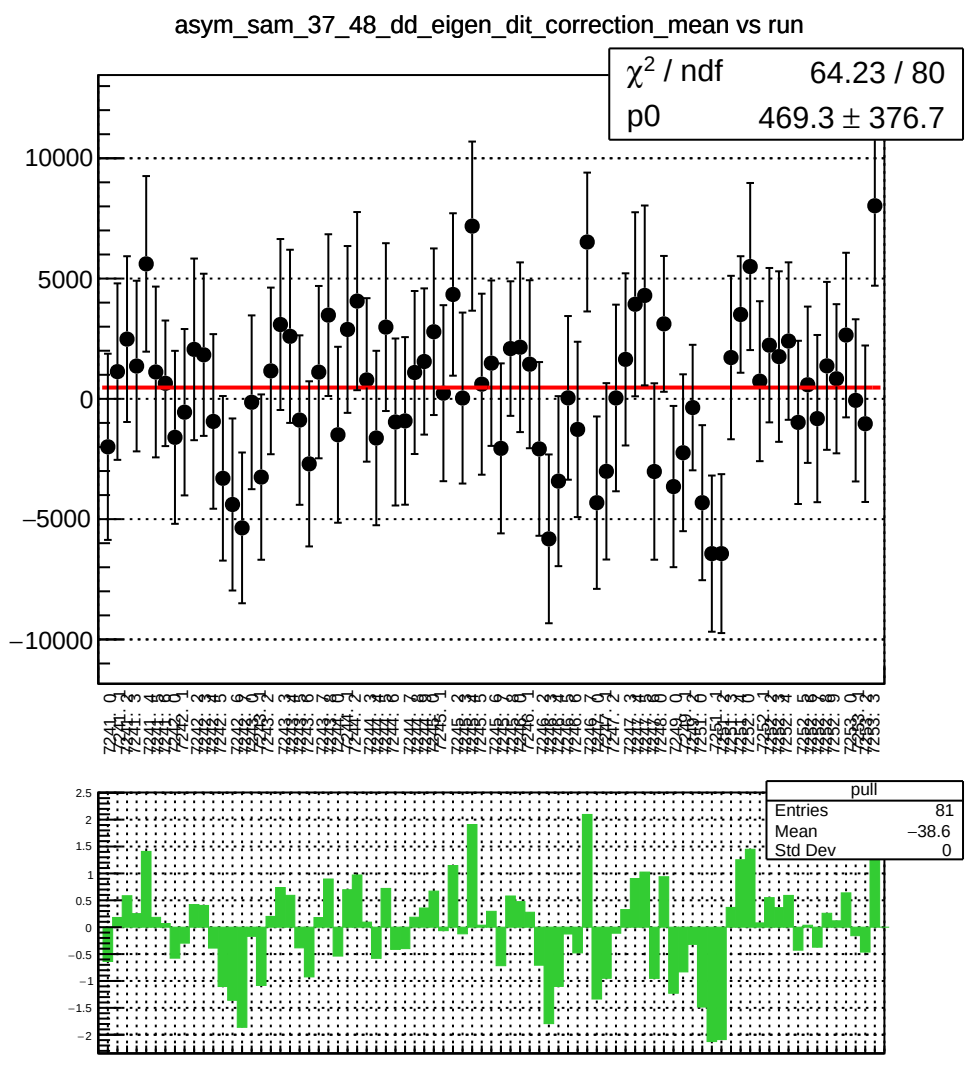

pull1D
Entries 81
Mean −0.01078
Std Dev 0.8904
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

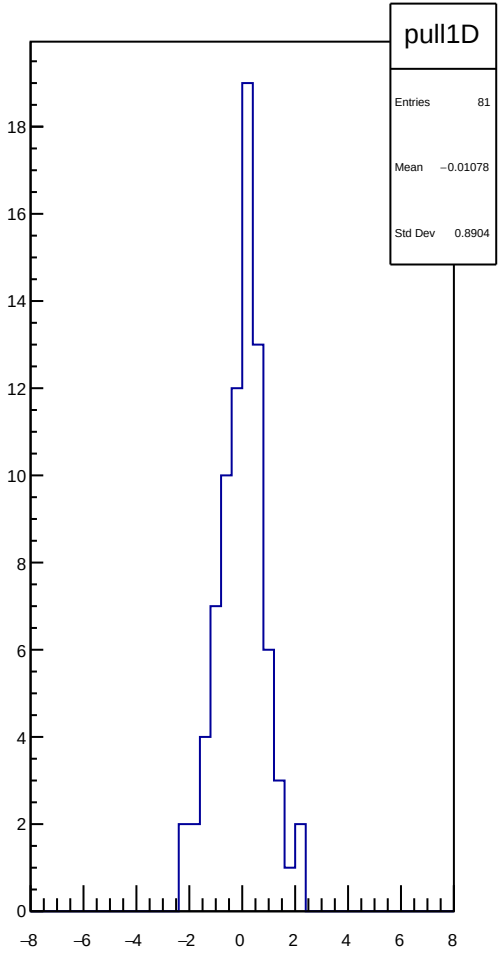

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 2740 / 80
p0 331.2 ± 0.2664
370
360
350
340
330
320
310
300

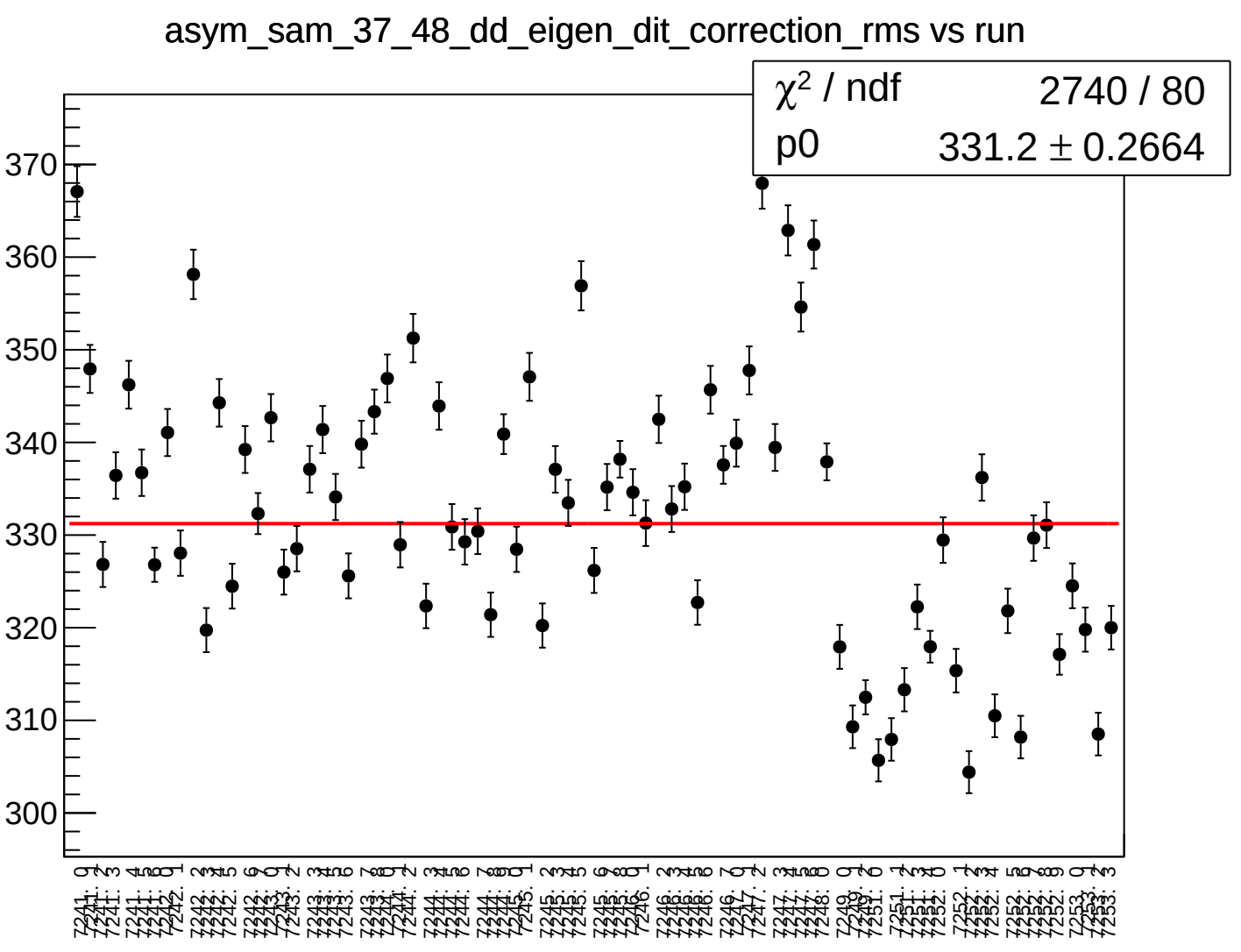

eigen_dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 89.03 / 80
p0 −107.3 ± 71.43
pull
Entries 81
Mean 112.9
Std Dev 0

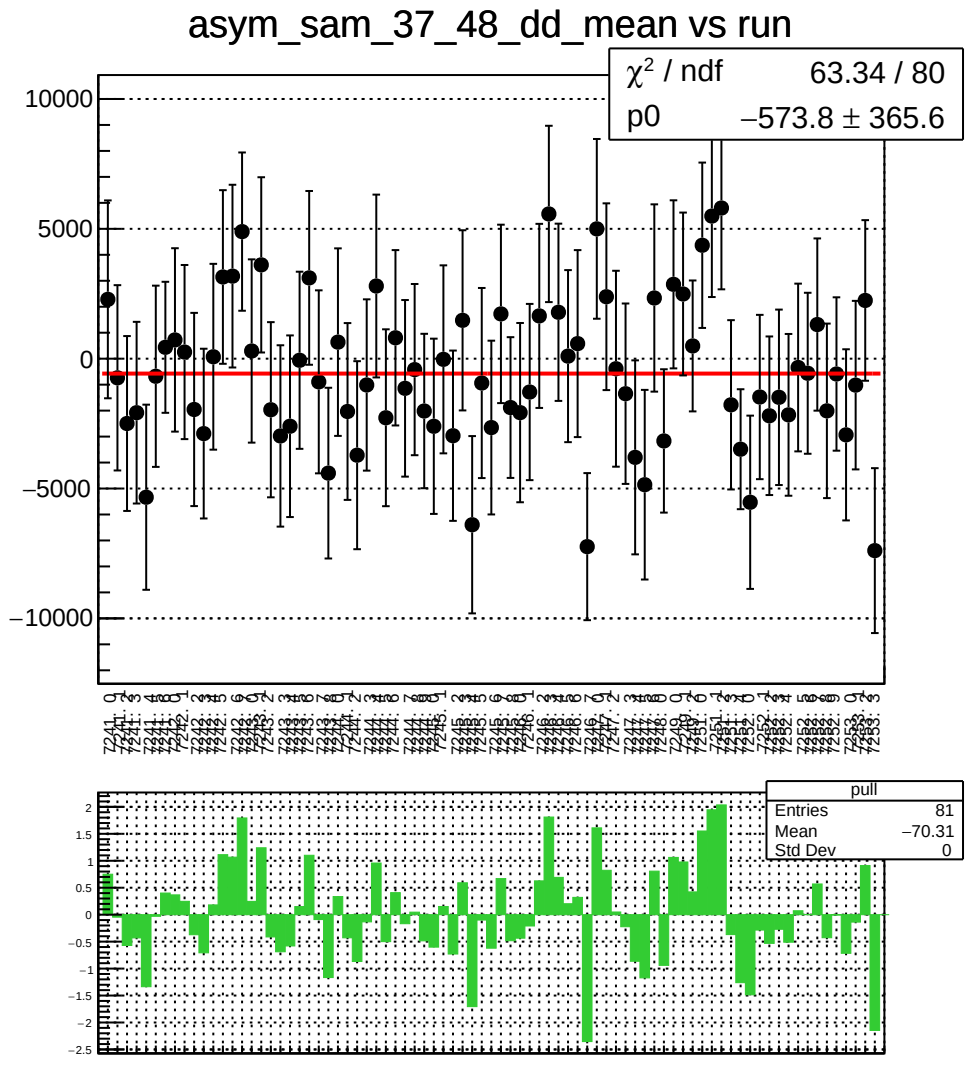

pull1D
Entries 81
Mean −0.008647
Std Dev 1.048

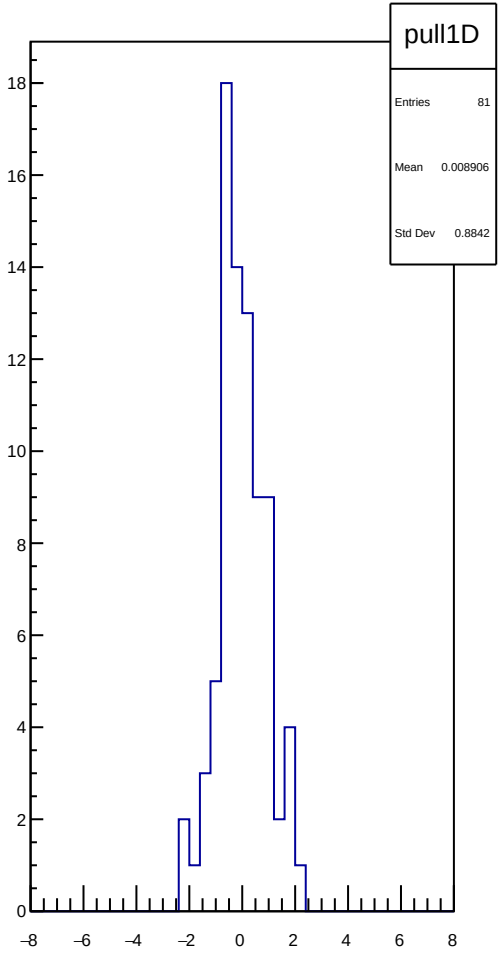

eigen_dit_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 270.2 / 80
p0 62.86 ± 0.05051
65
64
63
62
61

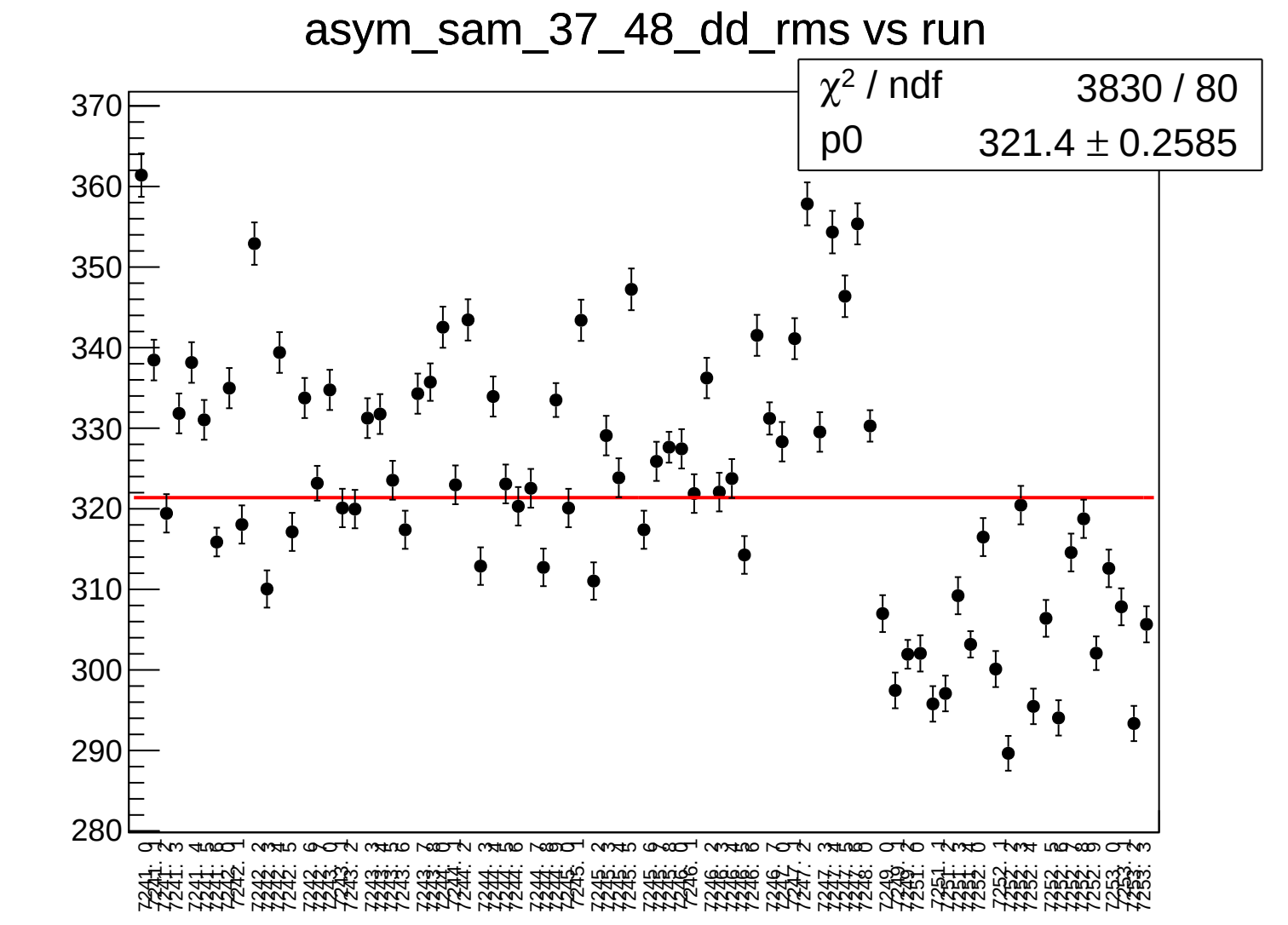

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 64.23 / 80
p0 469.3 ± 376.7
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −38.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

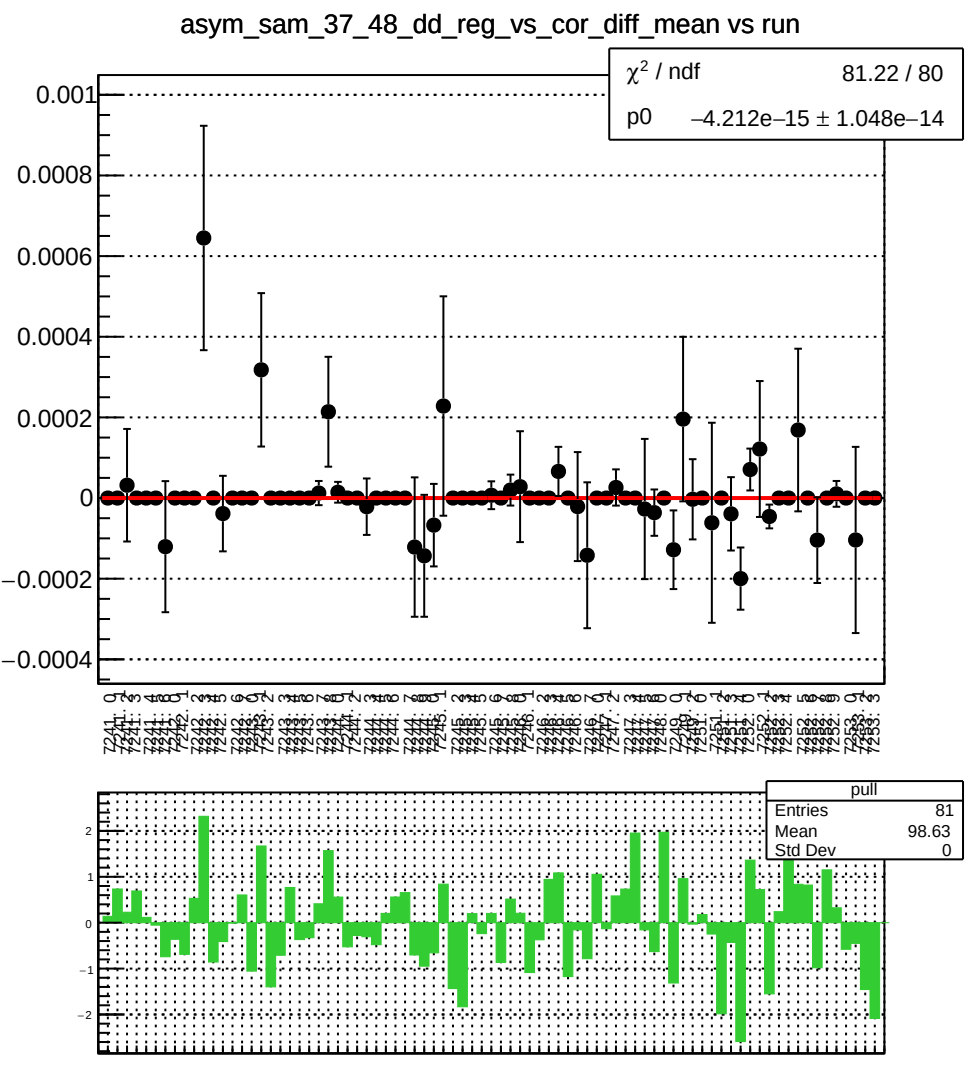

pull1D
Entries 81
Mean −0.01078
Std Dev 0.8904
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

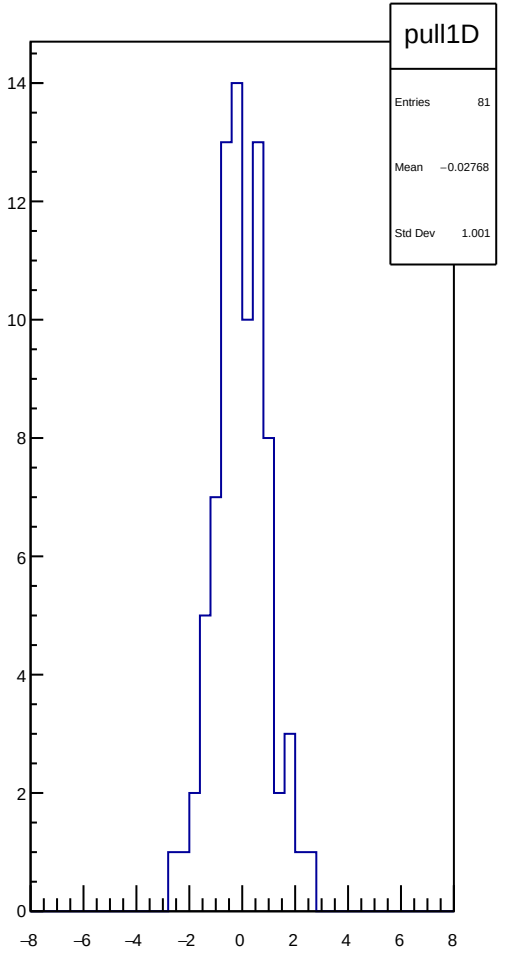

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 2740 / 80
p0 331.2 ± 0.2664
370
360
350
340
330
320
310
300

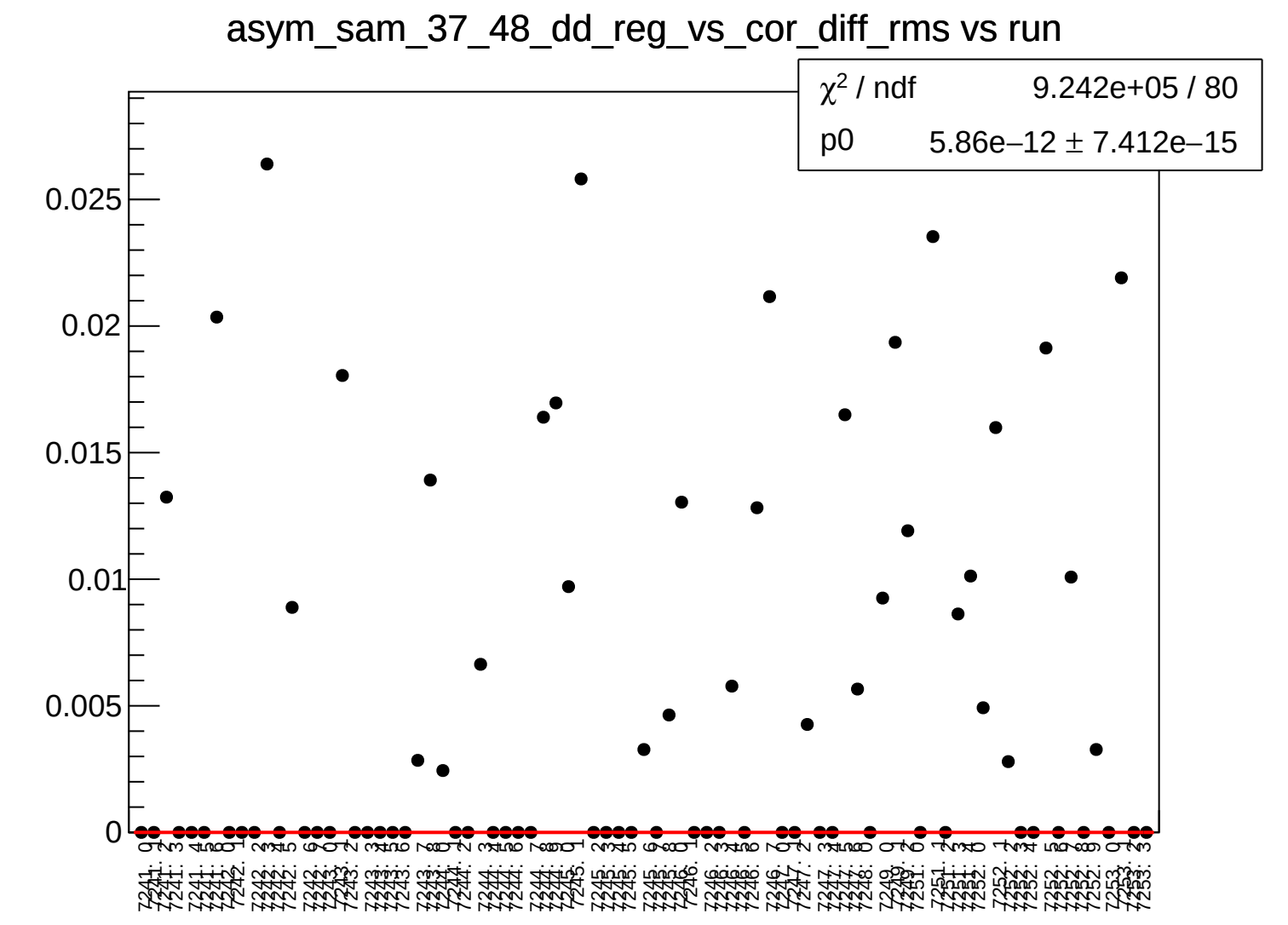

asym_sam_37_48_dd_mean vs run
χ² / ndf 63.34 / 80
p0 −573.8 ± 365.6
pull
Entries 81
Mean −70.31
Std Dev 0

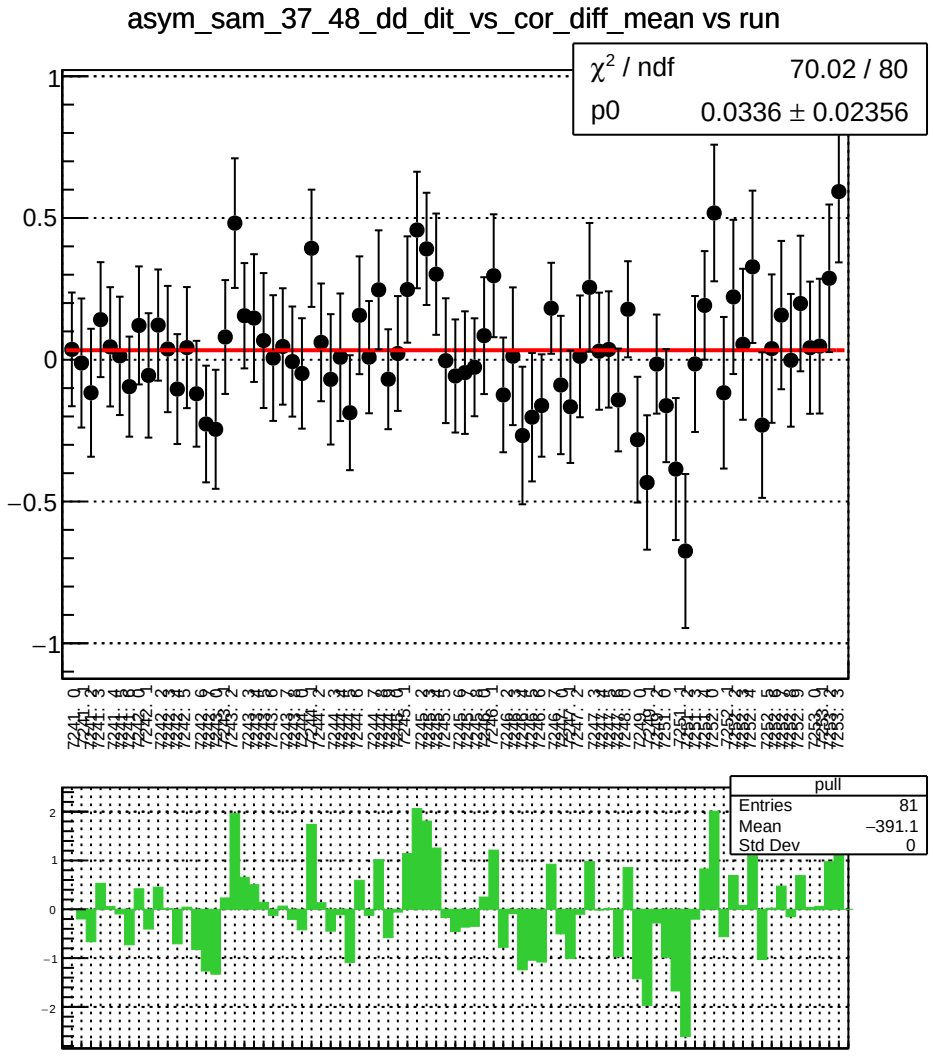

pull1D
Entries 81
Mean 0.008906
Std Dev 0.8842

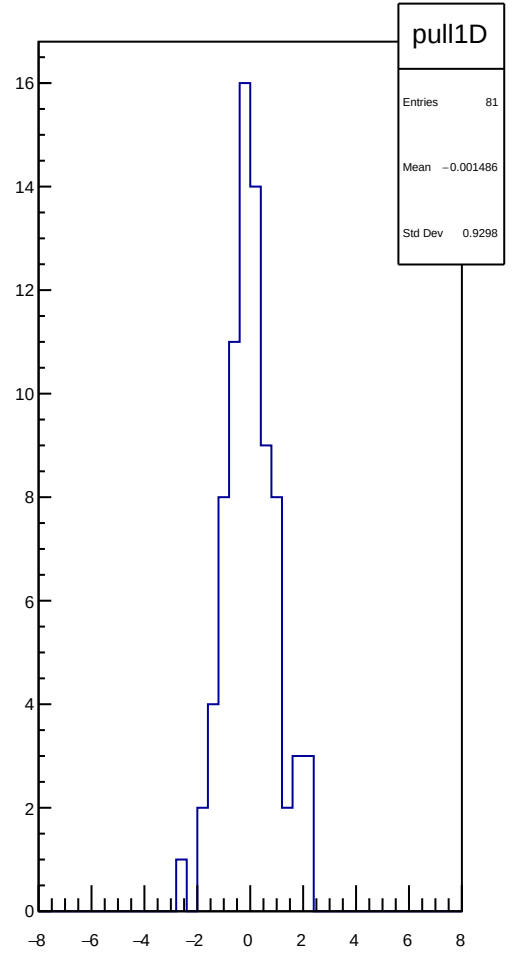

asym_sam_37_48_dd_rms vs run
χ^2 / ndf 3830 / 80
p0 321.4 ± 0.2585
370
360
350
340
330
320
310
300
290
280

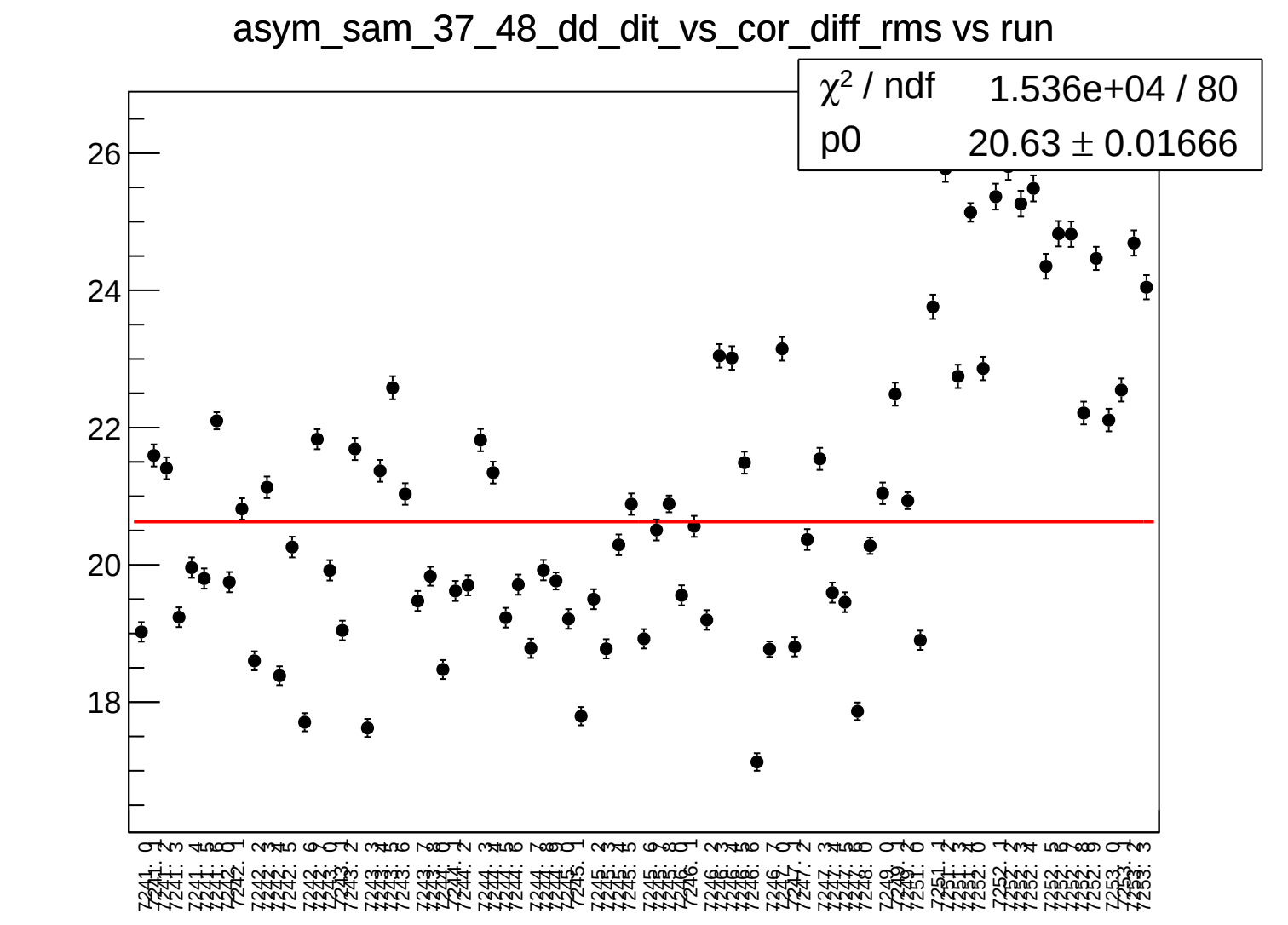

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 81.22 / 80
p0 −4.212e−15 ± 1.048e−14
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
pull
Entries 81
Mean 98.63
Std Dev 0
2
1
0
−1
−2

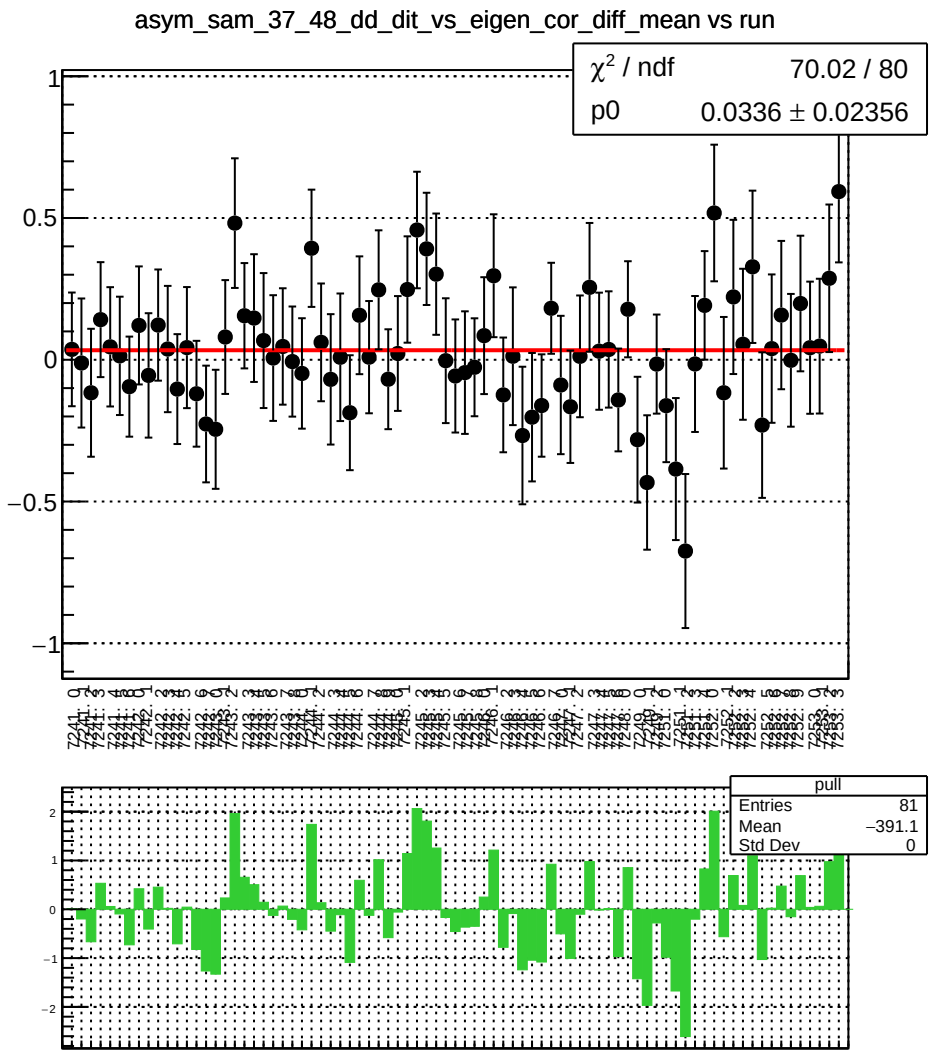

pull1D
Entries 81
Mean −0.02768
Std Dev 1.001
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

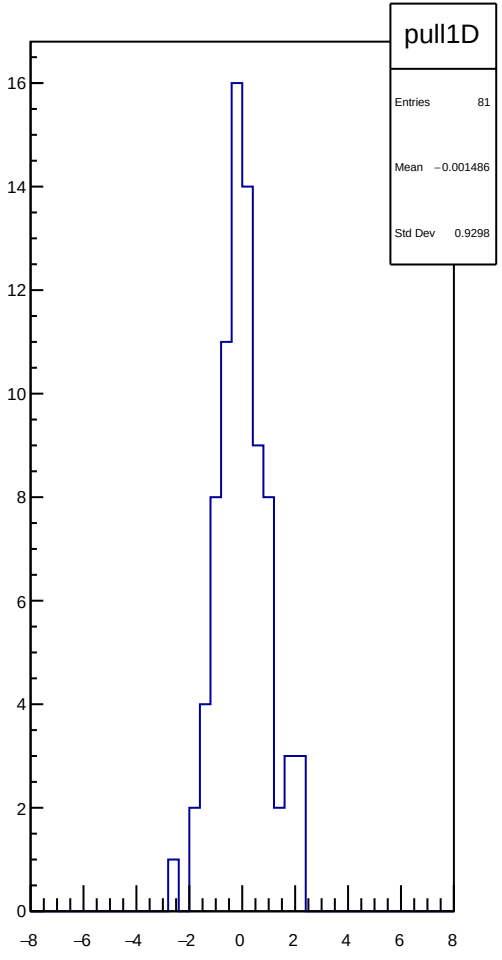

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.242e+05 / 80
p0 5.86e−12 ± 7.412e−15
0.025
0.02
0.015
0.01
0.005
0

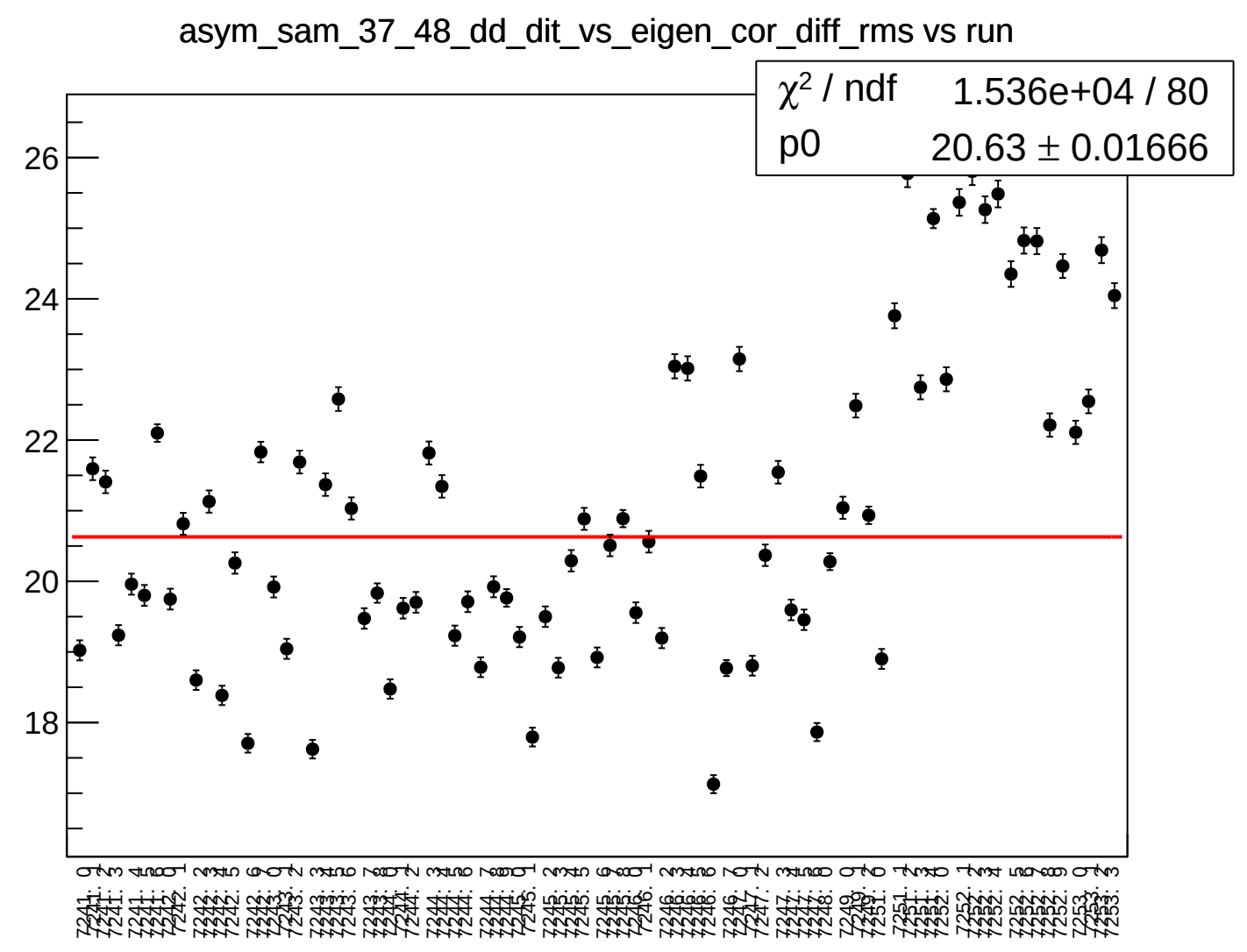

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 70.02 / 80
p0 0.0336 ± 0.02356
pull
Entries 81
Mean −391.1
Std Dev 0

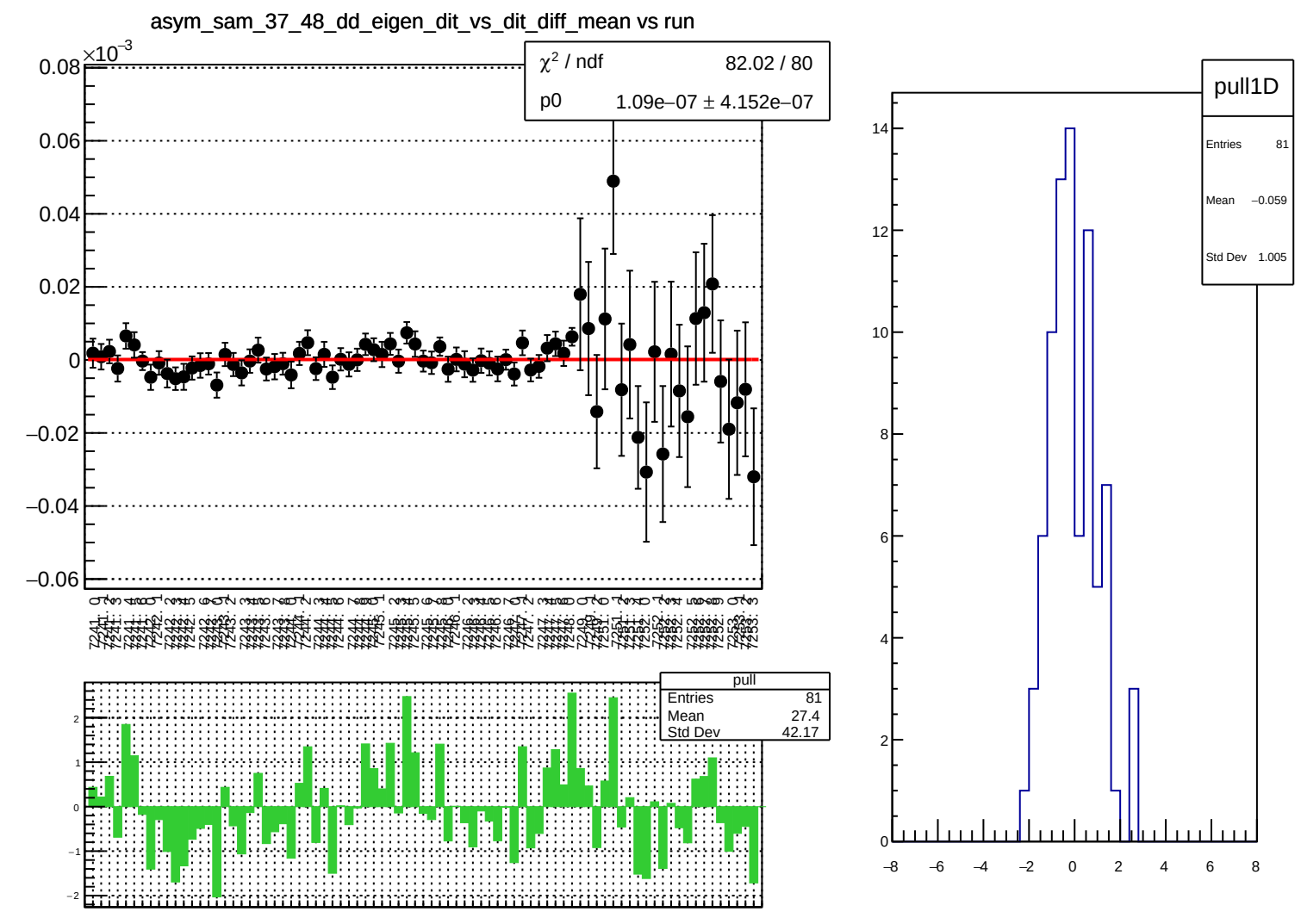

pull1D
Entries 81
Mean −0.001486
Std Dev 0.9298

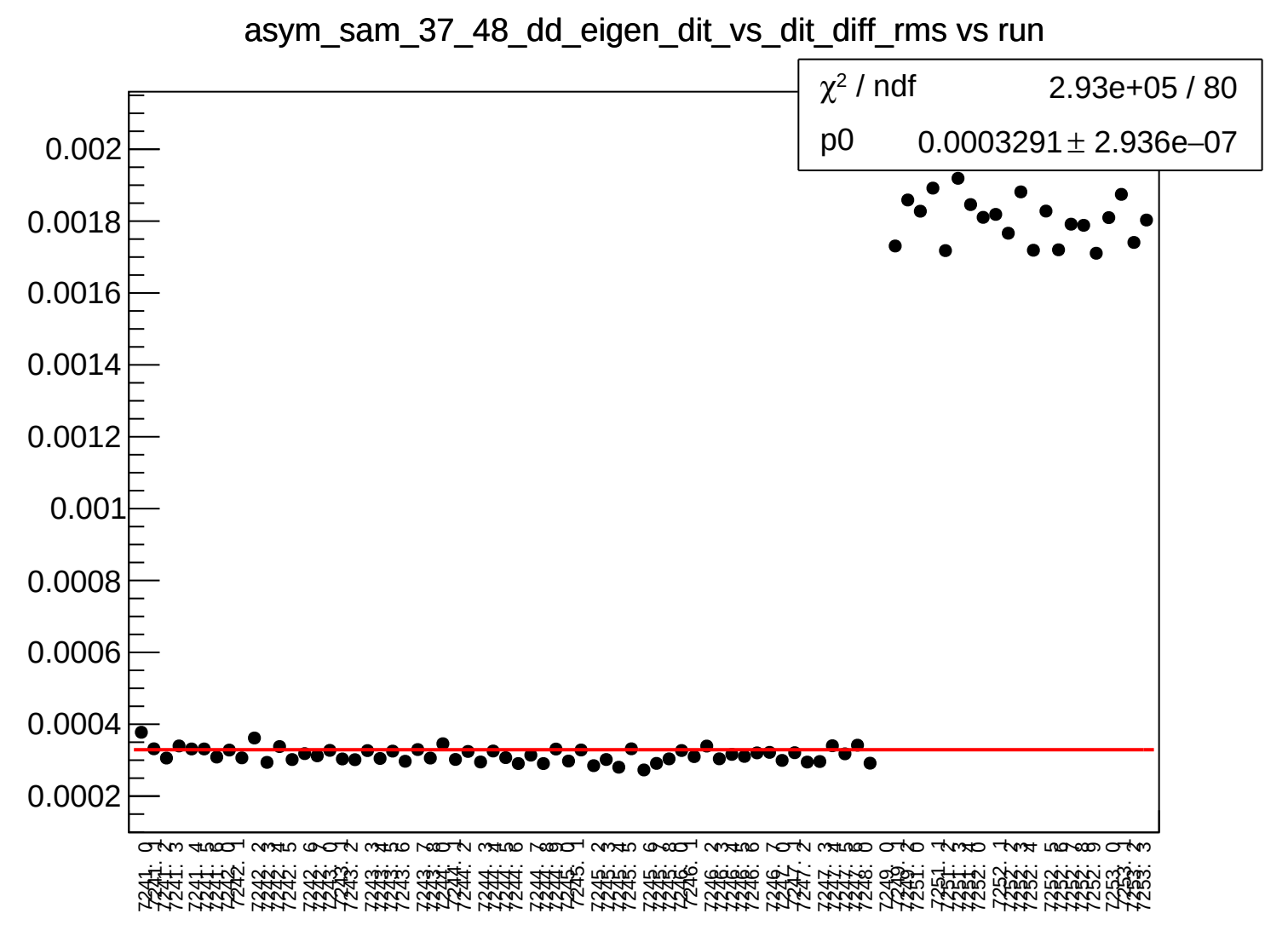

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.536e+04 / 80
p0 20.63 ± 0.01666
26
24
22
20
18

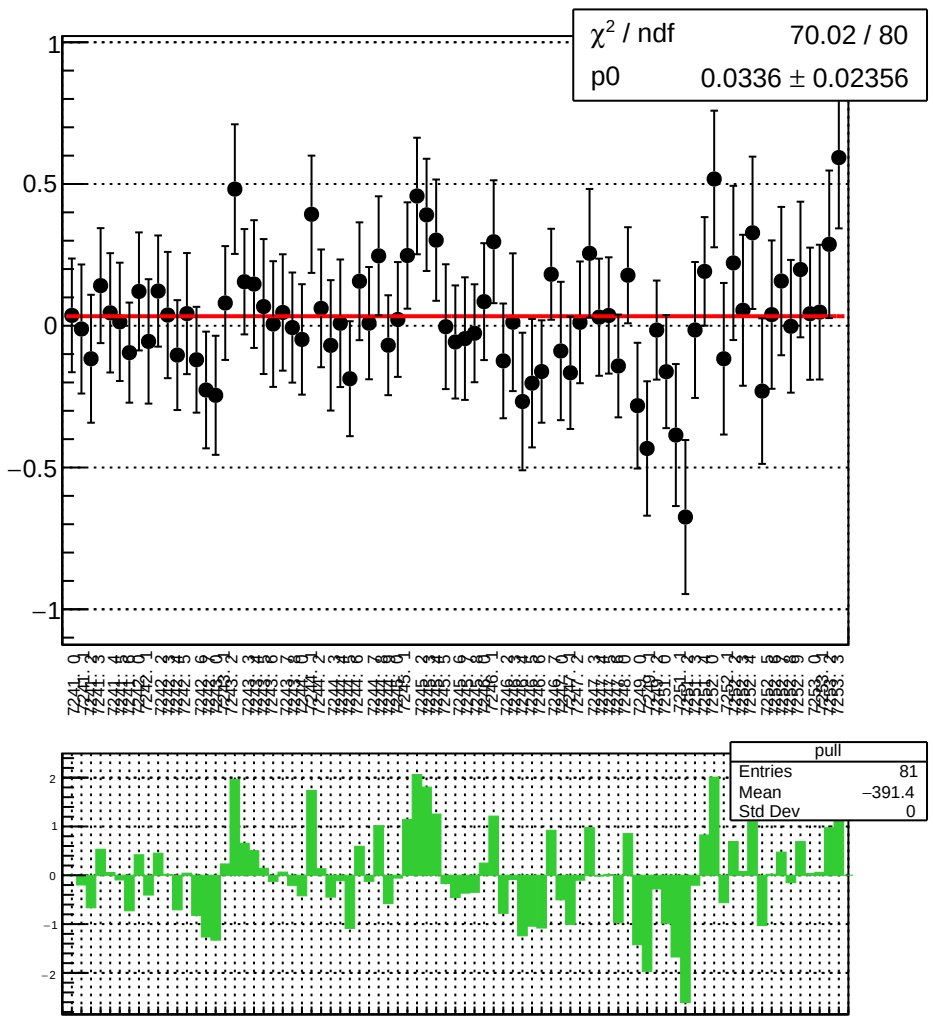

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.02 / 80
p0 0.0336 ± 0.02356
pull
Entries 81
Mean −391.1
Std Dev 0

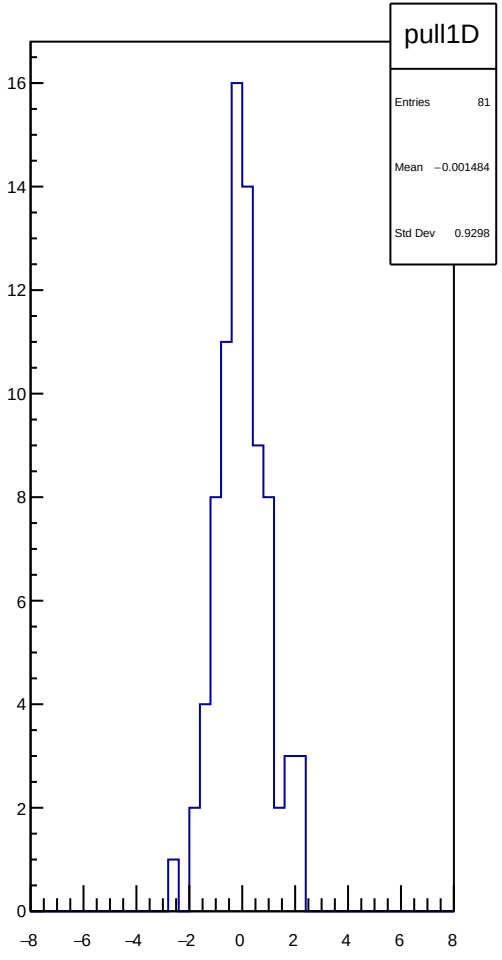

pull1D
Entries 81
Mean −0.001486
Std Dev 0.9298

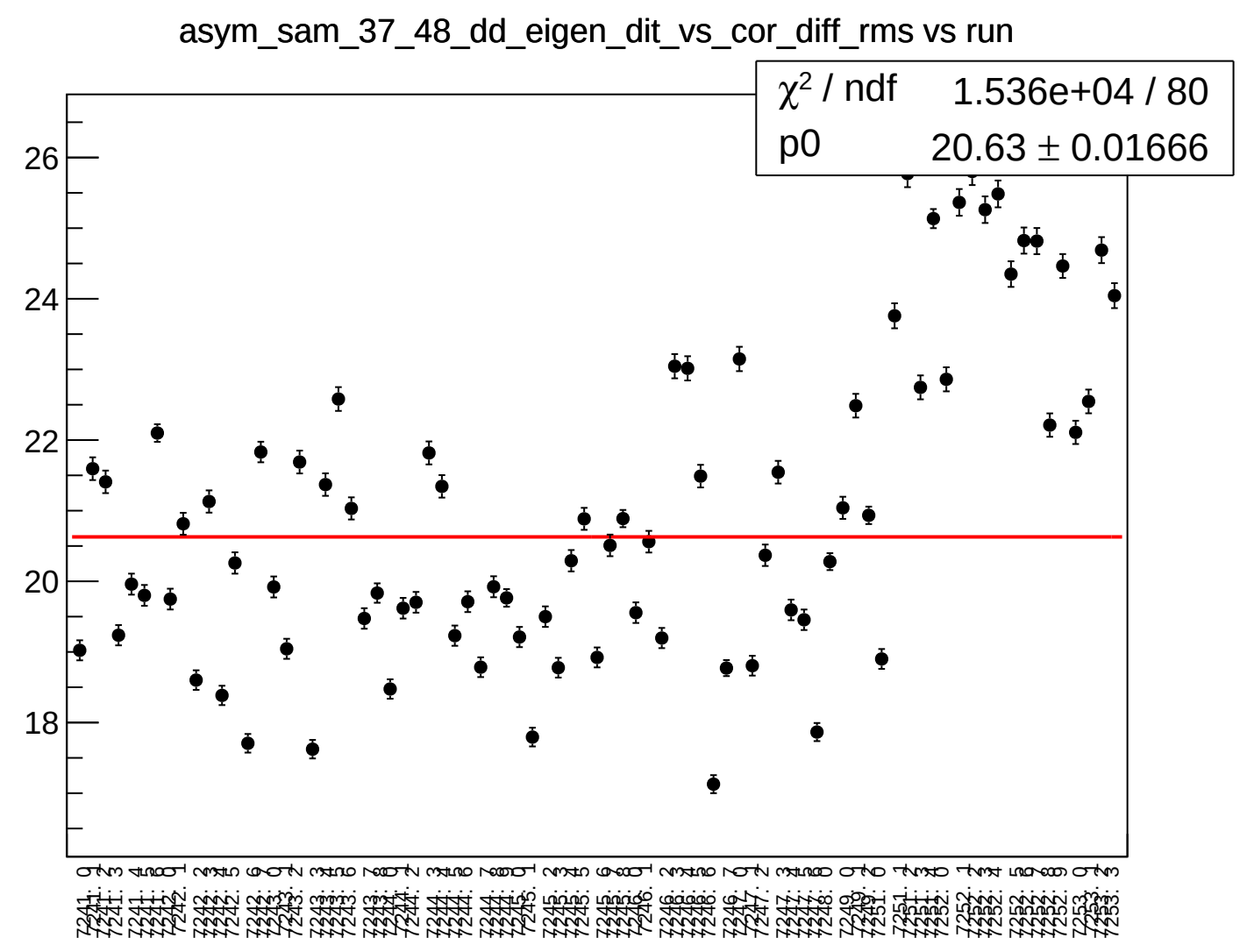

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.536e+04 / 80
p0 20.63 ± 0.01666
26
24
22
20
18

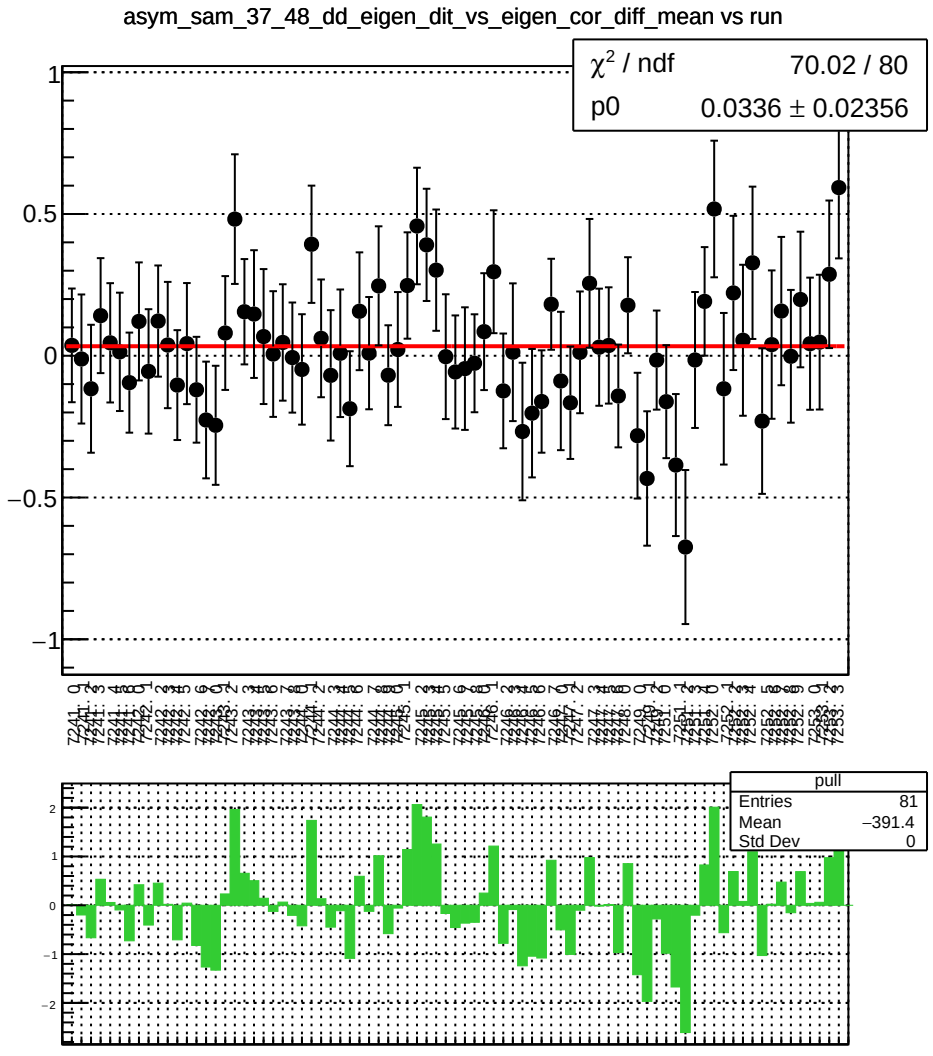

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.02 / 80
p0 1.09e−07 ± 4.152e−07
pull
Entries 81
Mean 27.4
Std Dev 42.17
pull1D
Entries 81
Mean −0.059
Std Dev 1.005

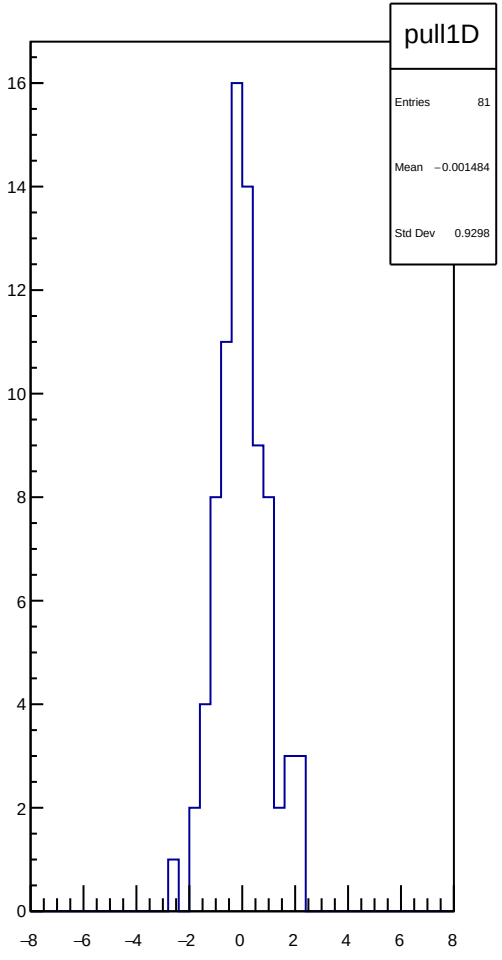

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.93e+05 / 80
p0 0.0003291 ± 2.936e−07
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

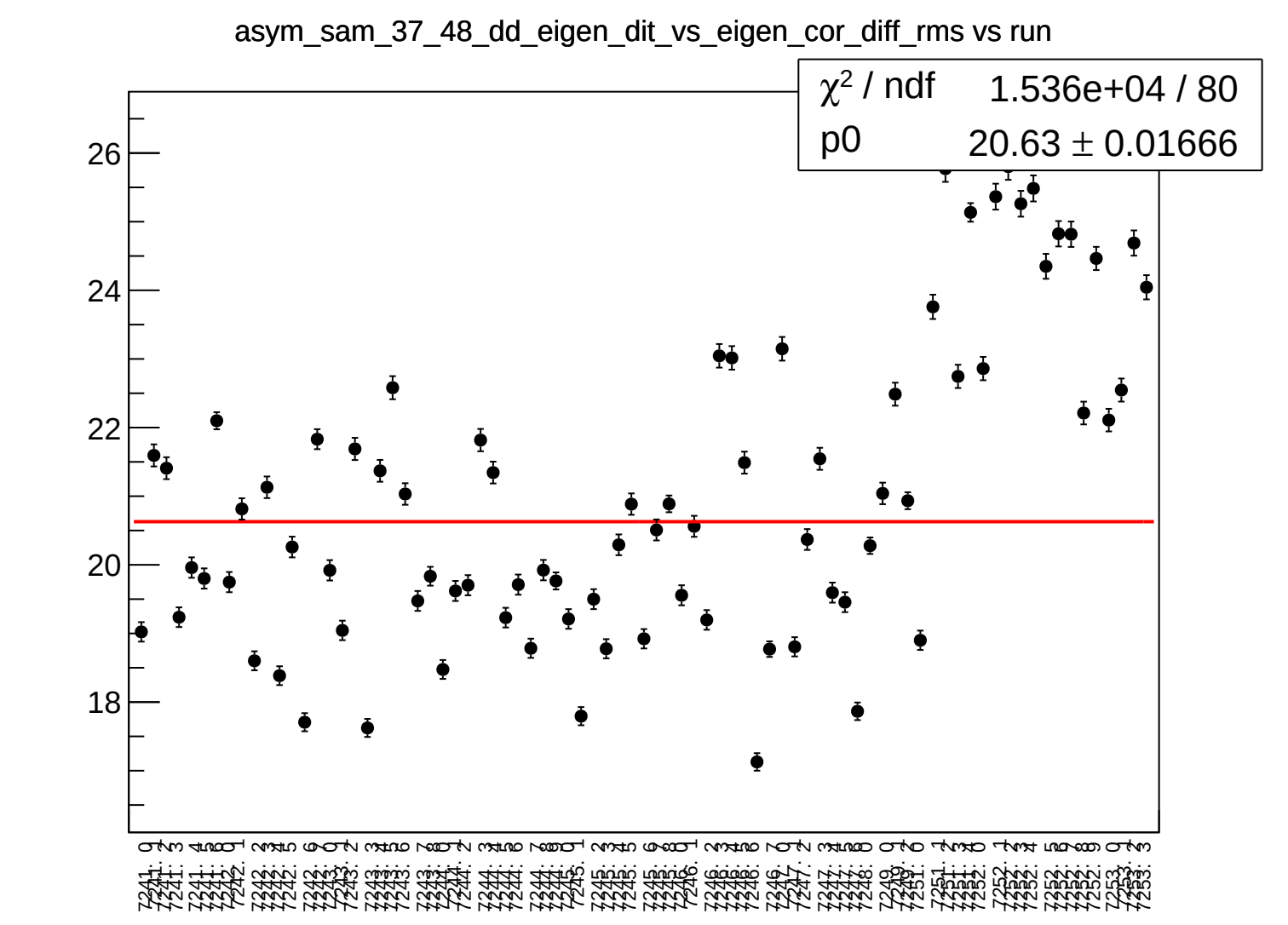

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 70.02 / 80
p0 0.0336 ± 0.02356
pull
Entries 81
Mean −391.4
Std Dev 0

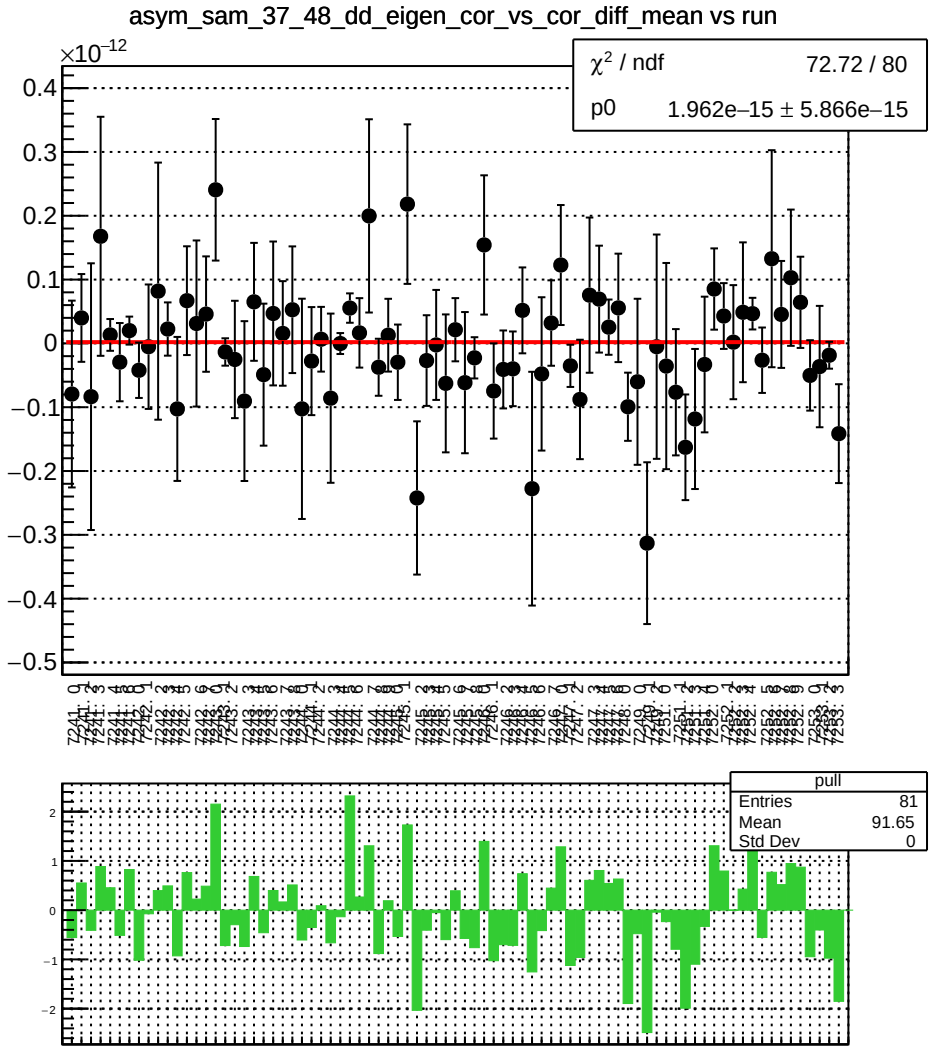

pull1D
Entries 81
Mean −0.001484
Std Dev 0.9298

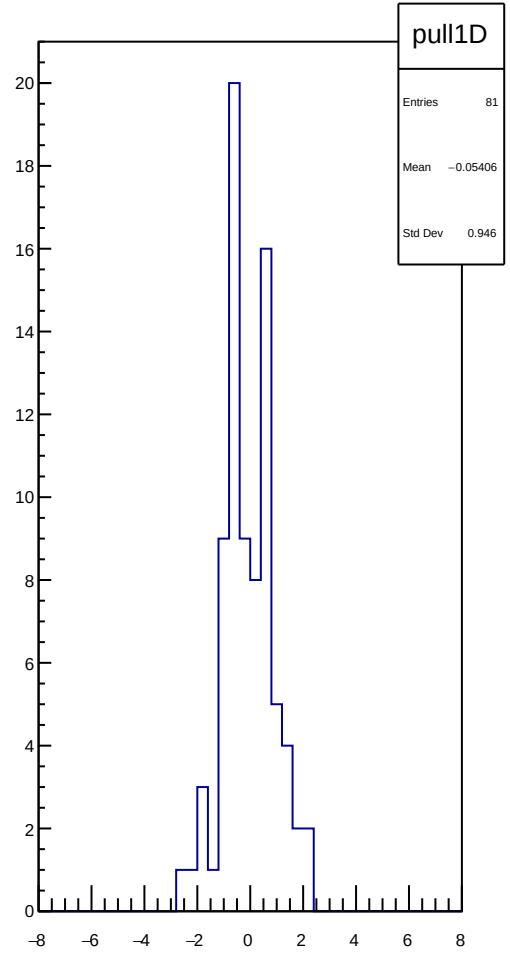

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.536e+04 / 80
p0 20.63 ± 0.01666
26
24
22
20
18

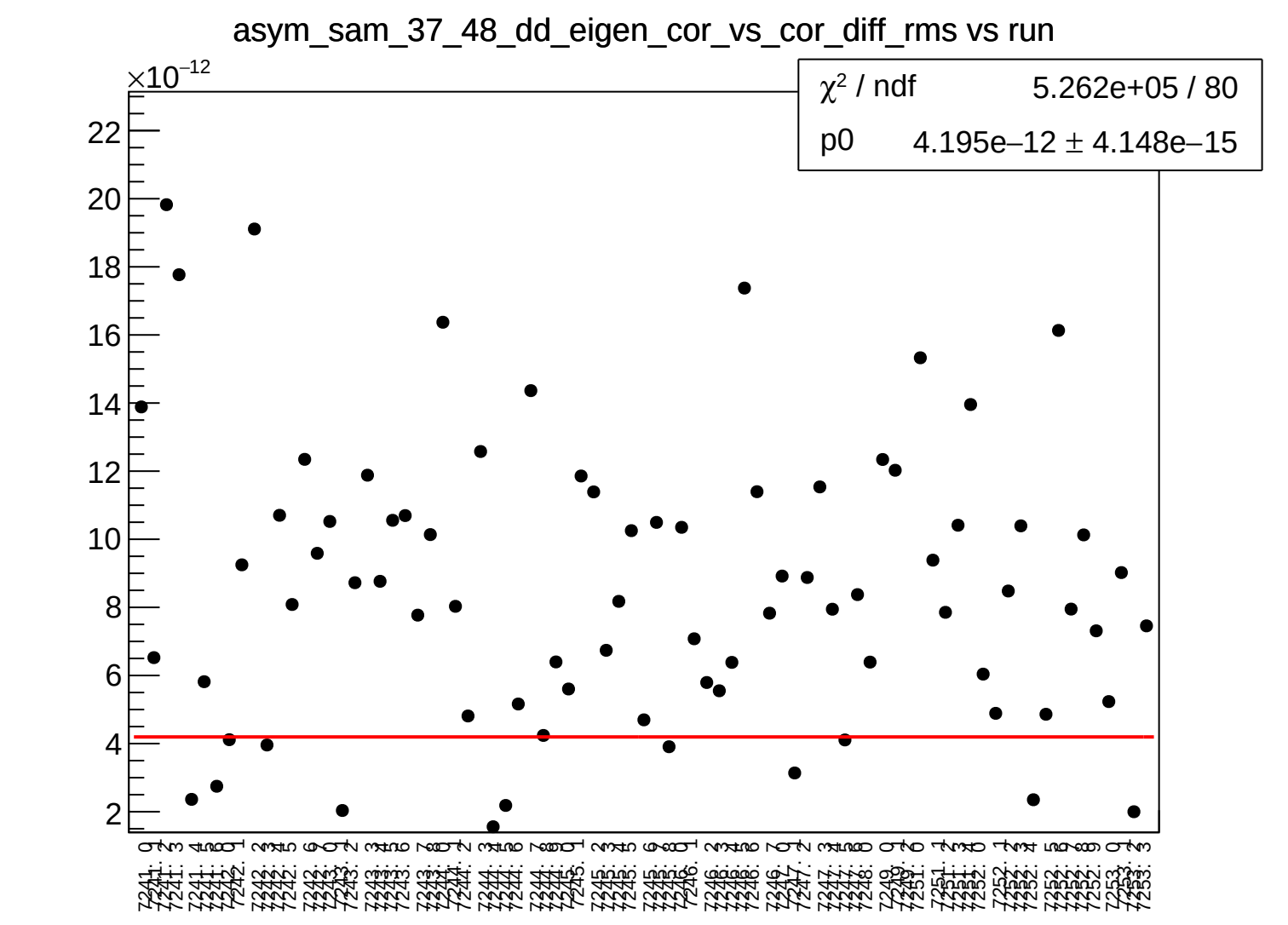

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.02 / 80
p0 0.0336 ± 0.02356
pull
Entries 81
Mean −391.4
Std Dev 0

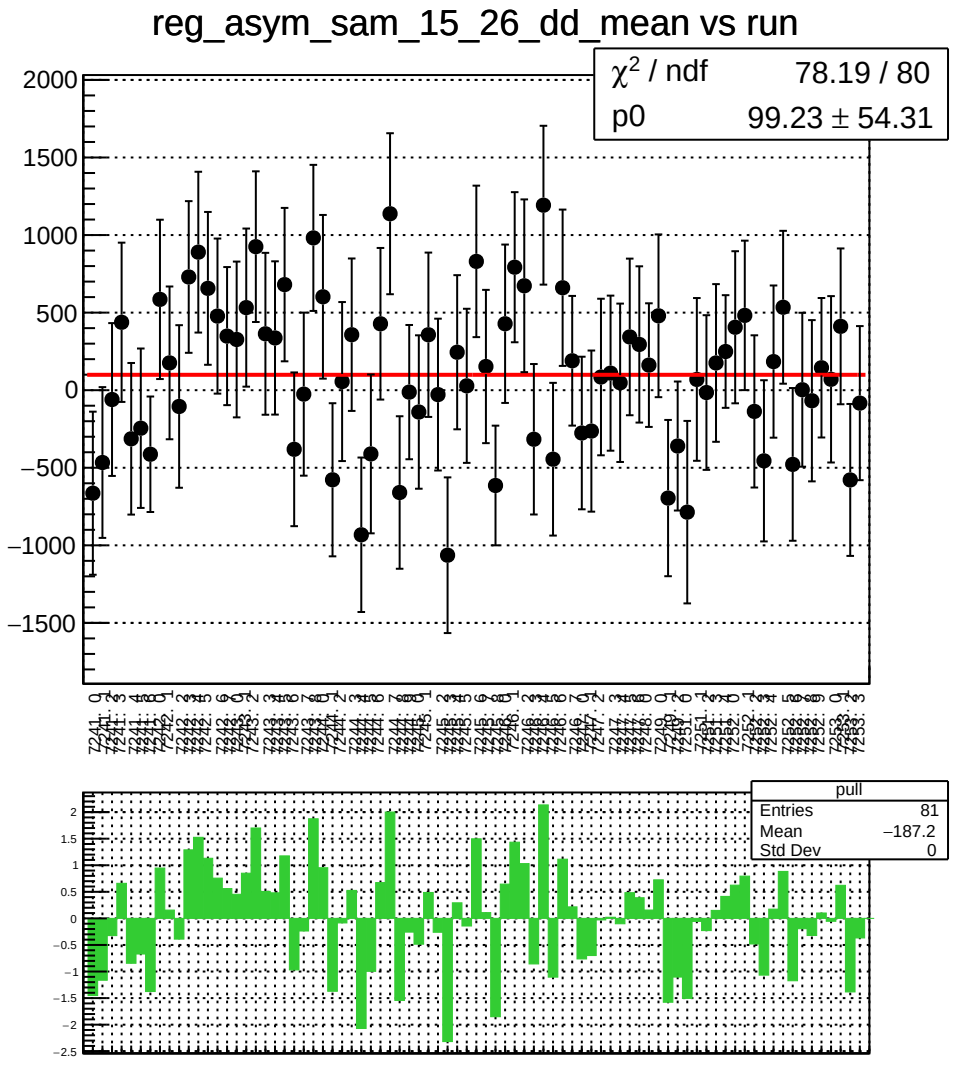

pull1D
Entries 81
Mean −0.001484
Std Dev 0.9298

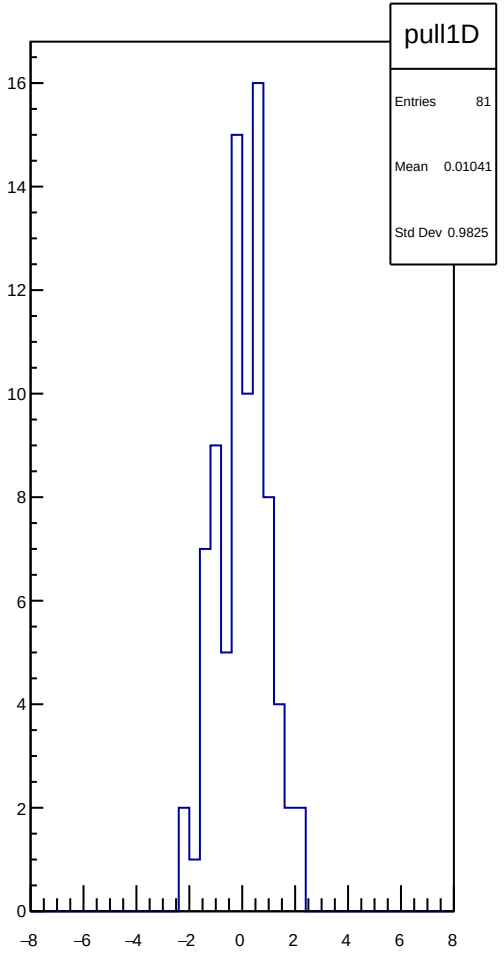

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.536e+04 / 80
p0 20.63 ± 0.01666
26
24
22
20
18

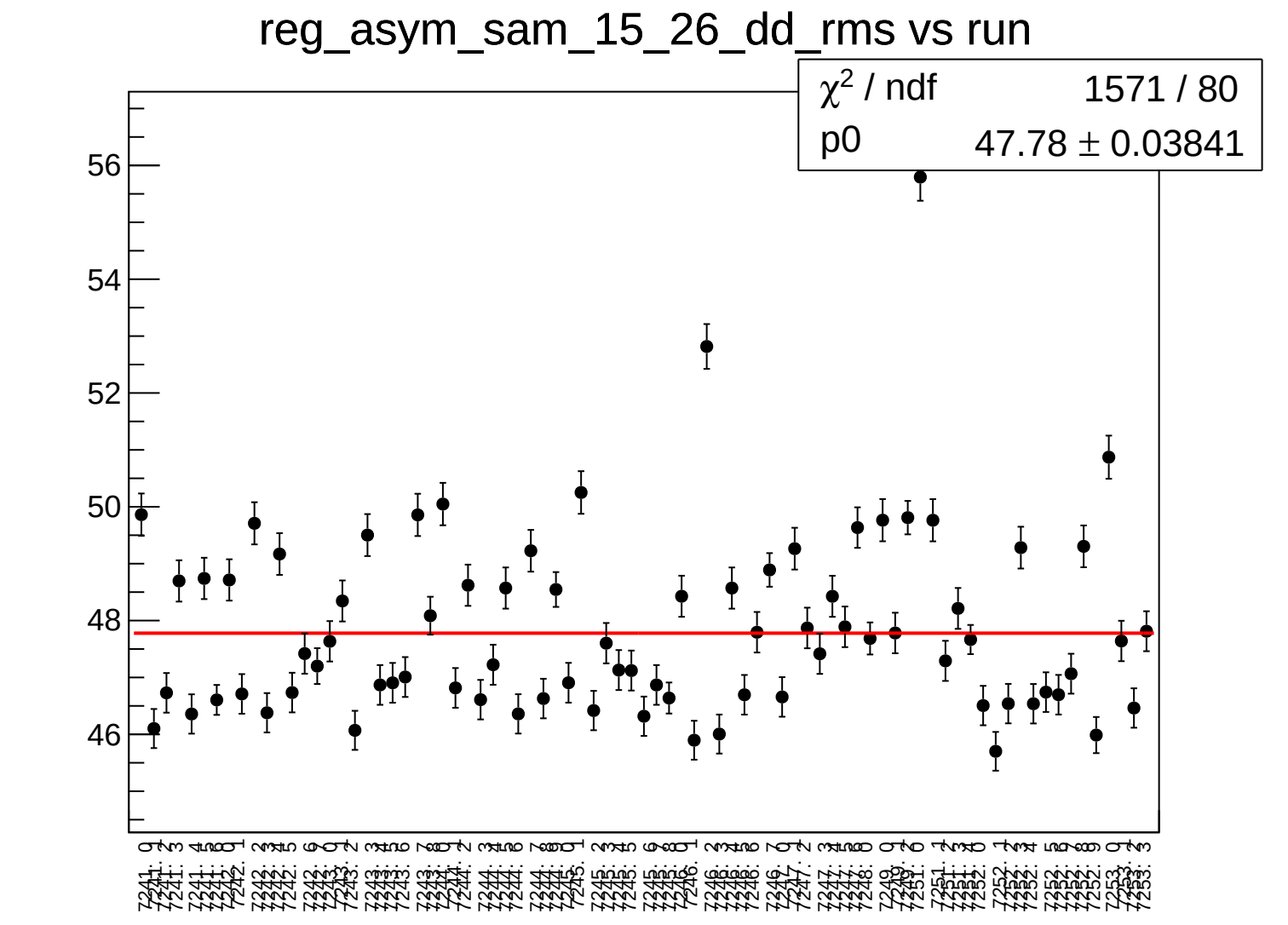

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.72 / 80
p0 1.962e−15 ± 5.866e−15
pull
Entries 81
Mean 91.65
Std Dev 0

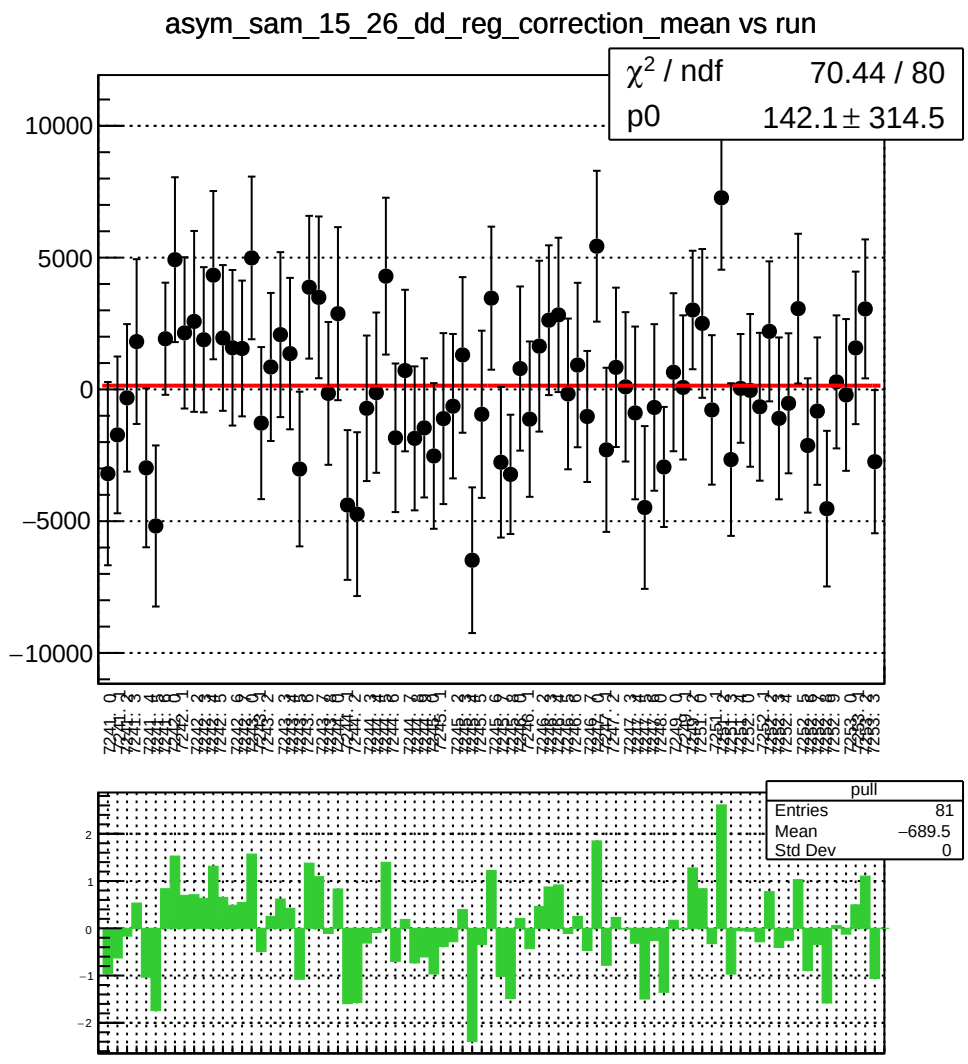

pull1D
Entries 81
Mean −0.05406
Std Dev 0.946

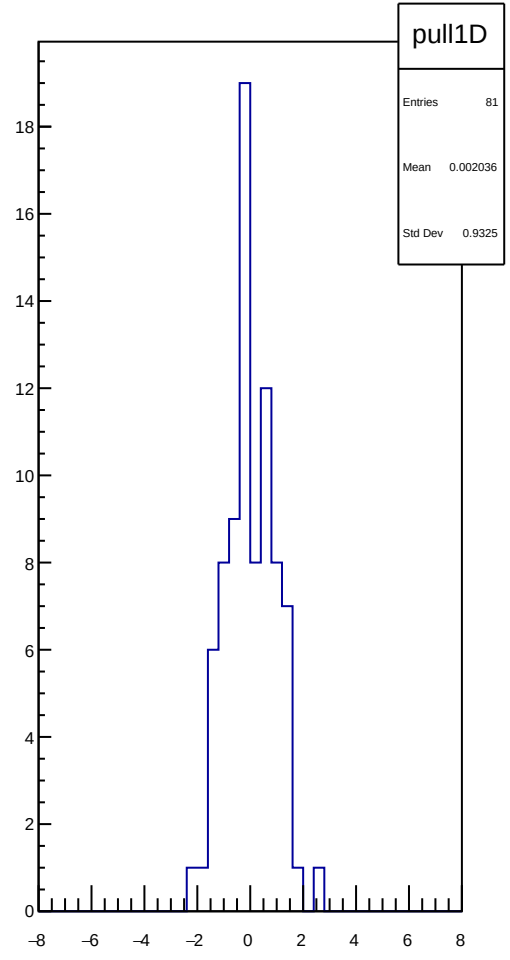

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.262e+05 / 80
p0 4.195e−12 ± 4.148e−15
22
20
18
16
14
12
10
8
6
4
2

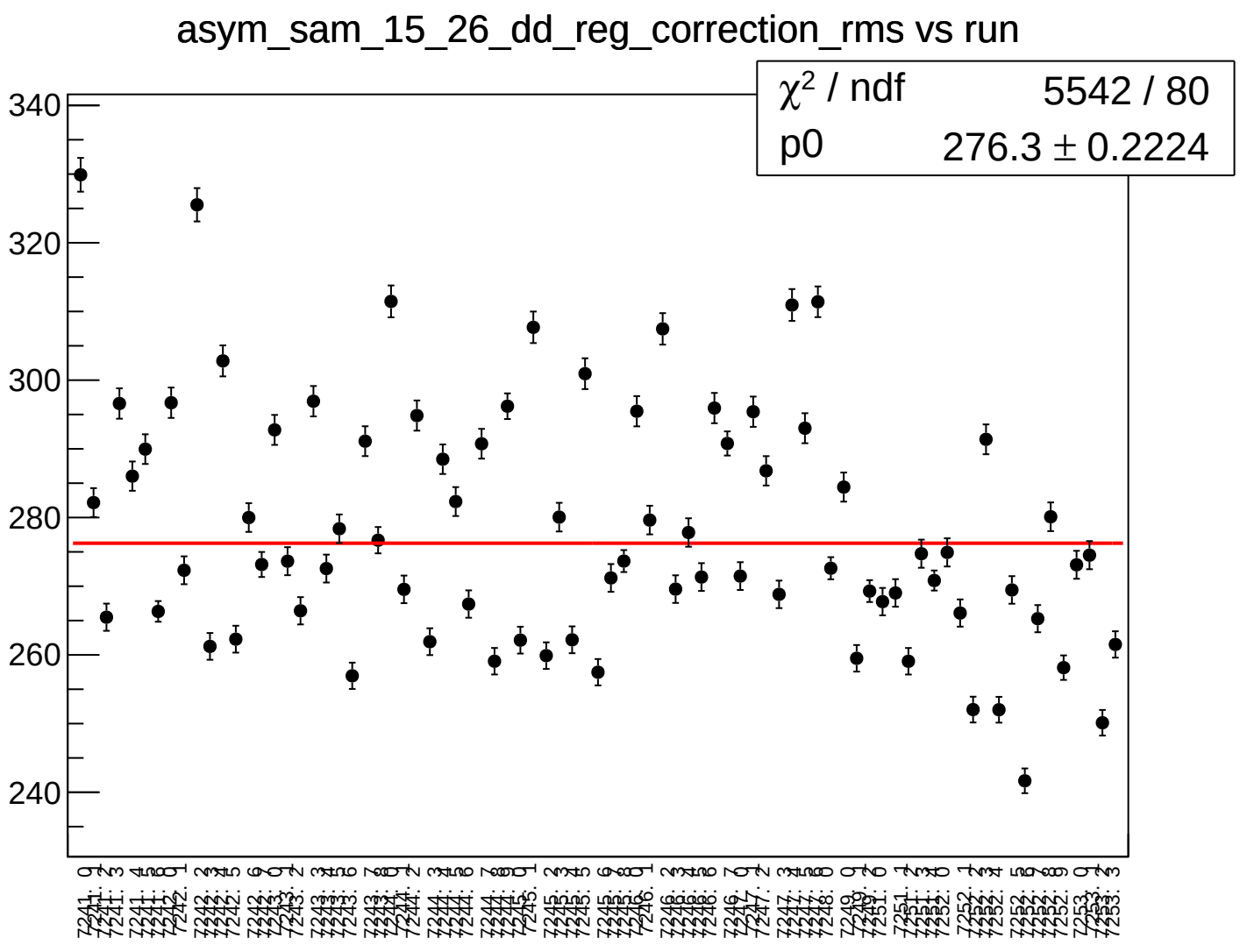

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 78.19 / 80
p0 99.23 ± 54.31
pull
Entries 81
Mean −187.2
Std Dev 0

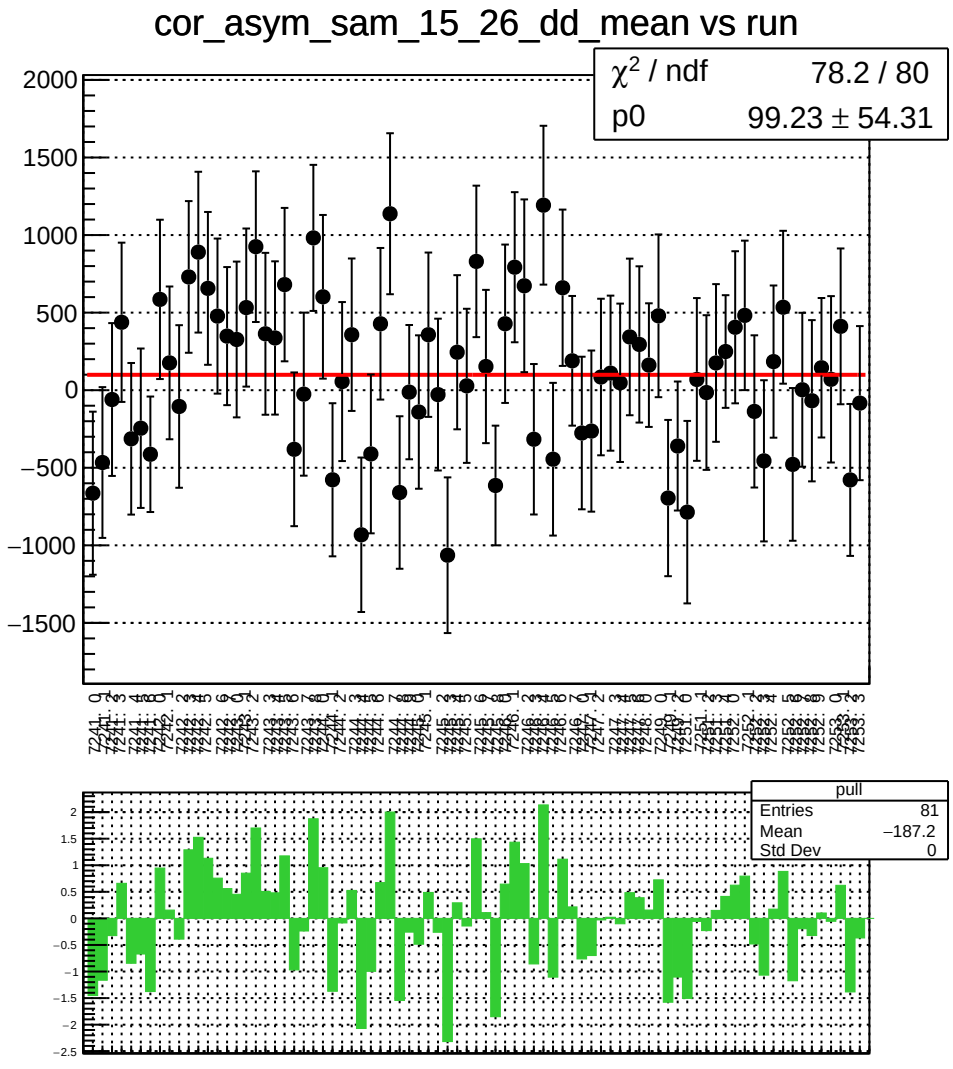

pull1D
Entries 81
Mean 0.01041
Std Dev 0.9825

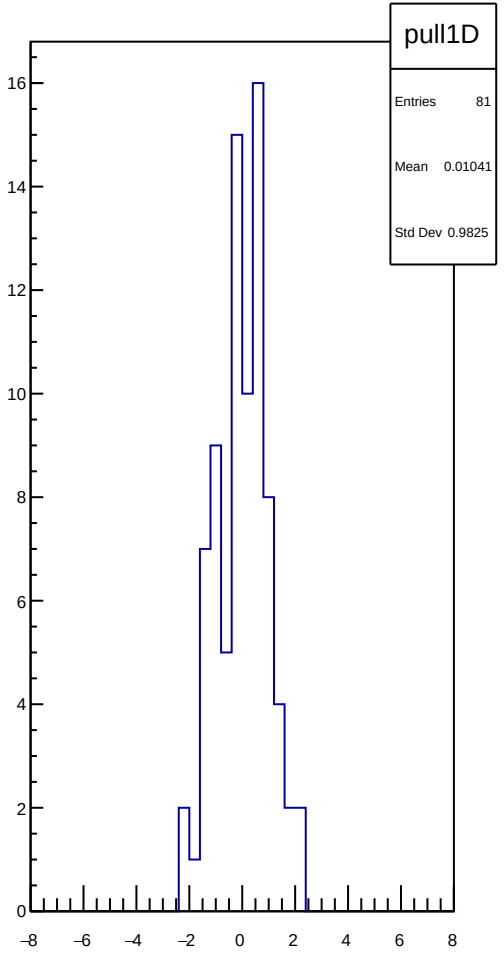

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 1571 / 80
p0 47.78 ± 0.03841
56
54
52
50
48
46

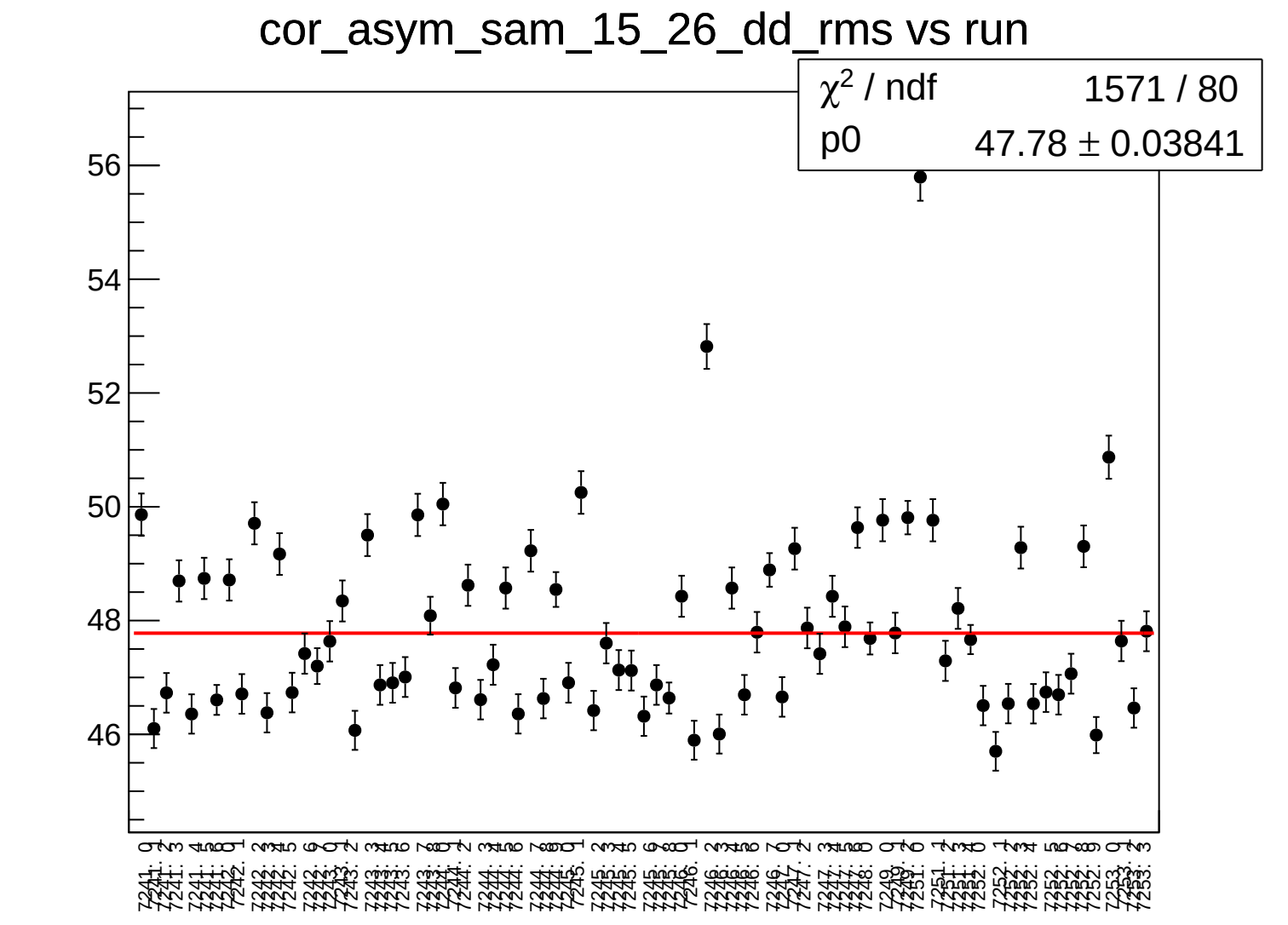

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 70.44 / 80
p0 142.1 ± 314.5
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −689.5
Std Dev 0
2
1
0
−1
−2

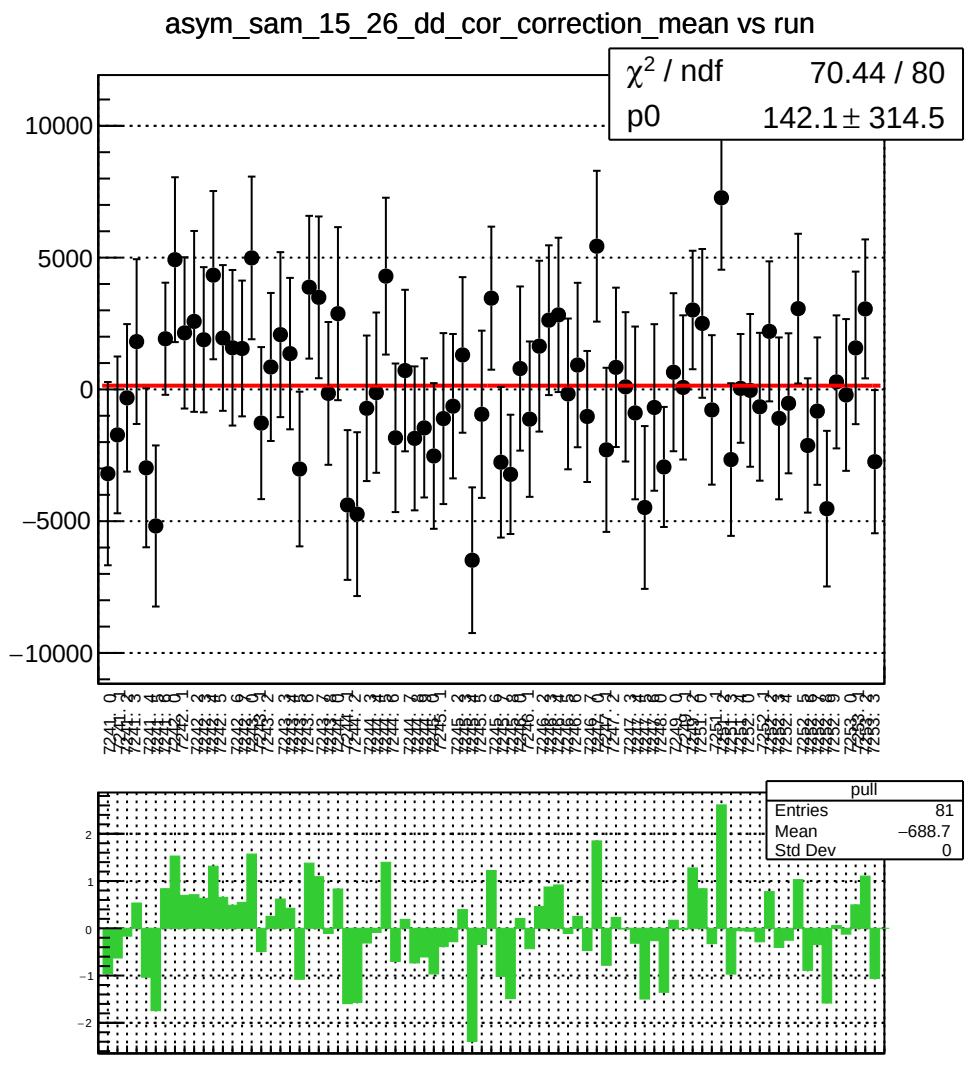

pull1D
Entries 81
Mean 0.002036
Std Dev 0.9325
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

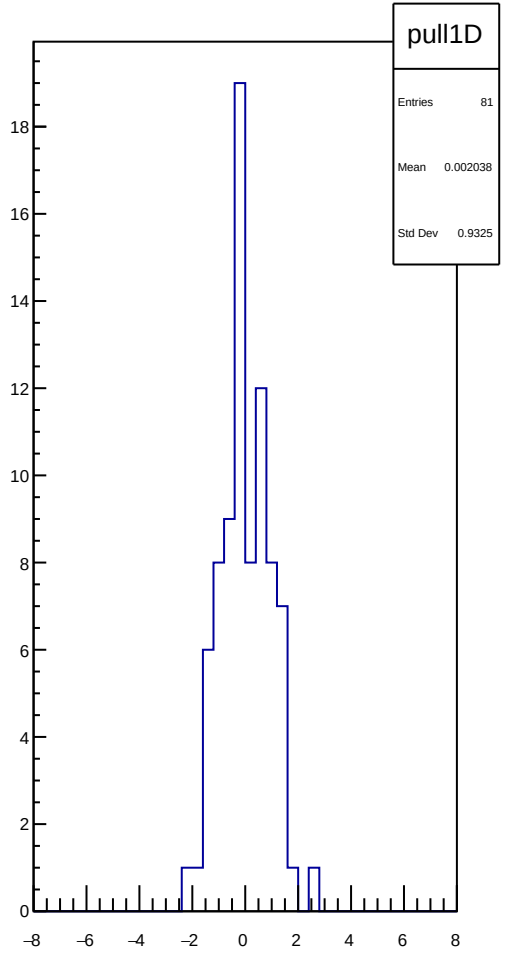

asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 5542 / 80
p0 276.3 ± 0.2224
340
320
300
280
260
240

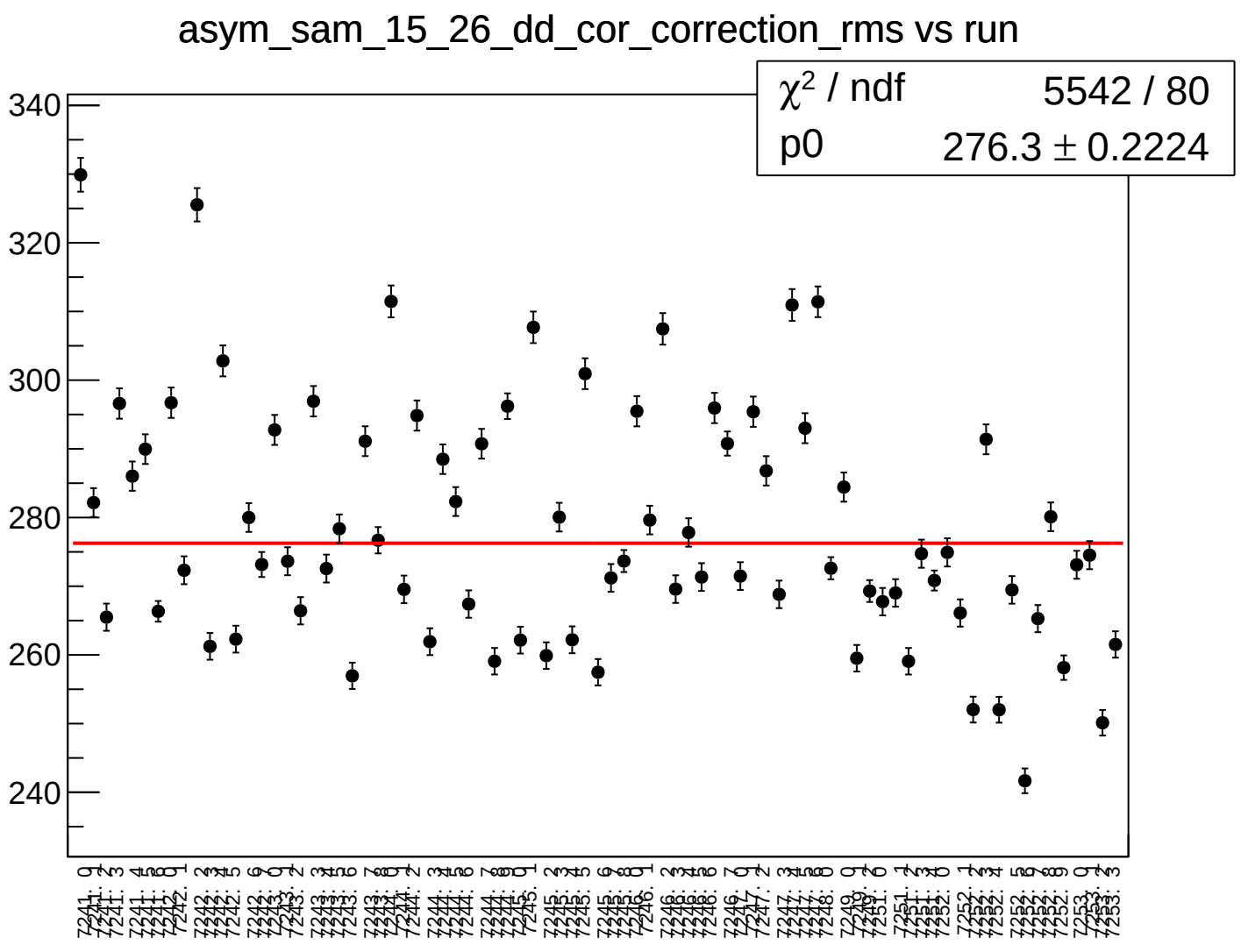

cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 78.2 / 80
p0 99.23 ± 54.31
pull
Entries 81
Mean −187.2
Std Dev 0

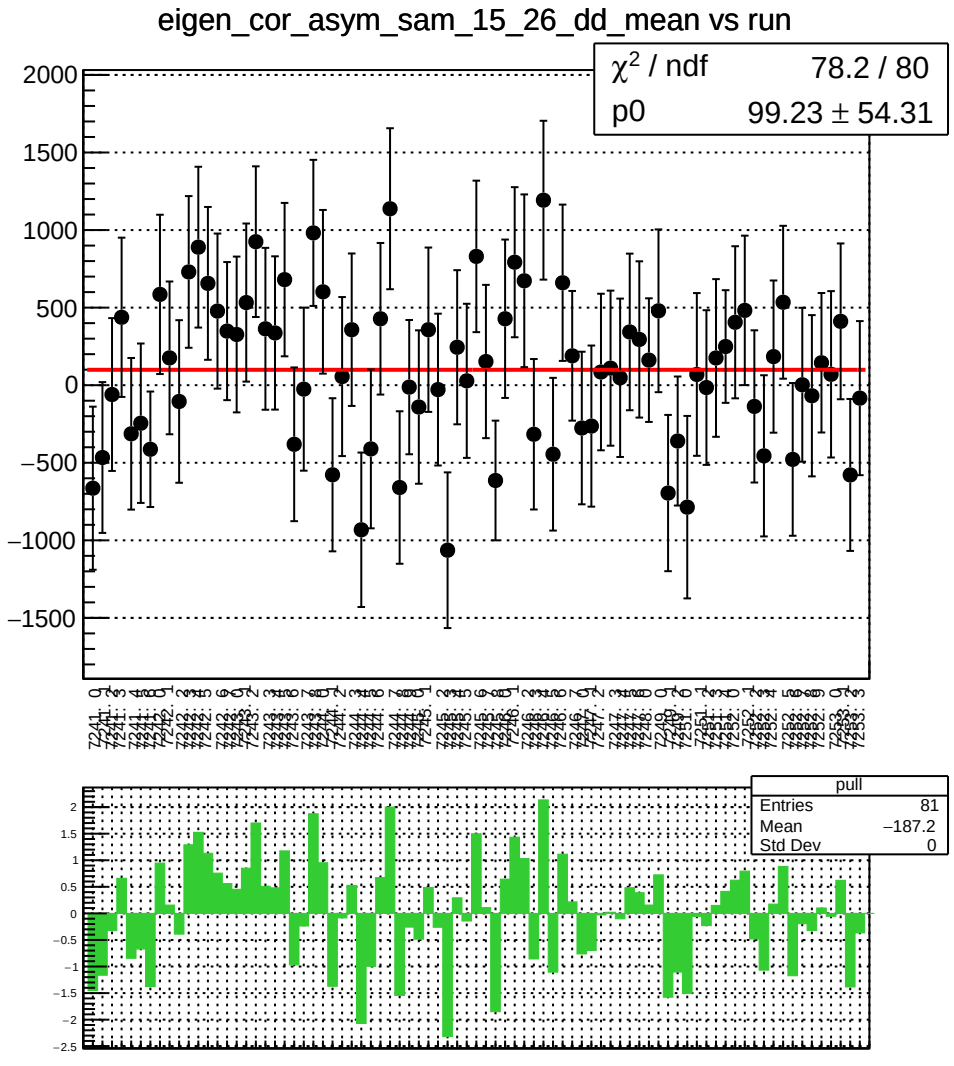

pull1D
Entries 81
Mean 0.01041
Std Dev 0.9825

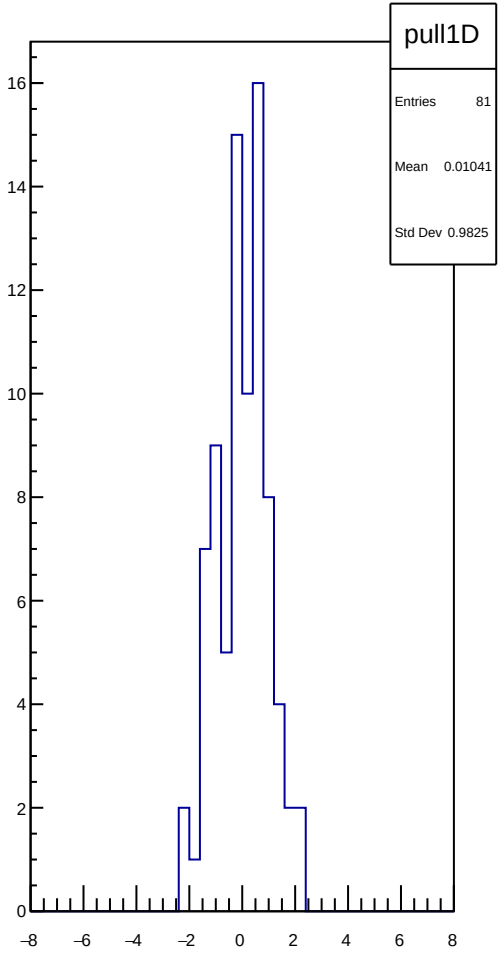

cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 1571 / 80
p0 47.78 ± 0.03841
56
54
52
50
48
46

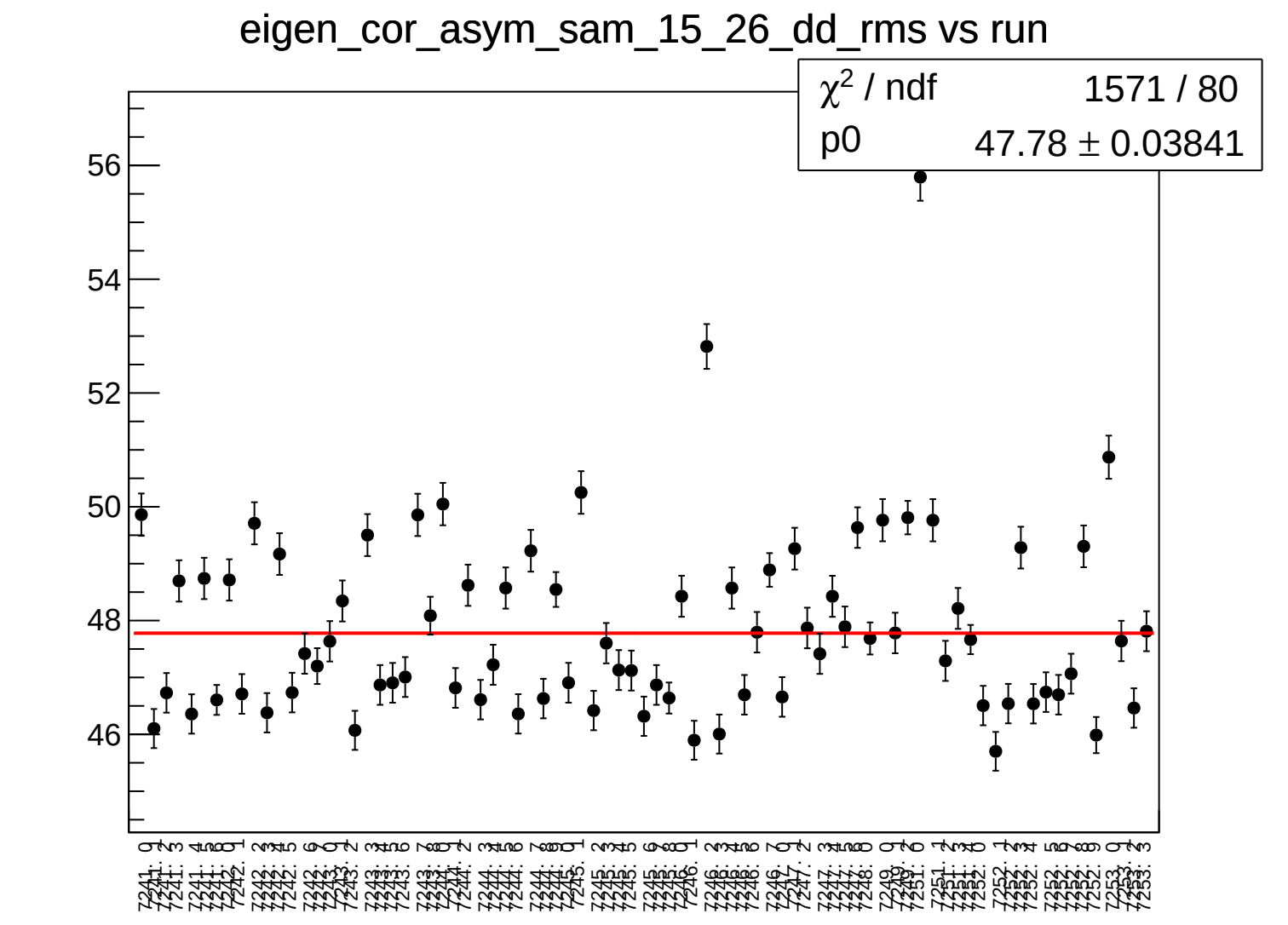

asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 70.44 / 80
p0 142.1 ± 314.5
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −688.7
Std Dev 0
2
1
0
−1
−2

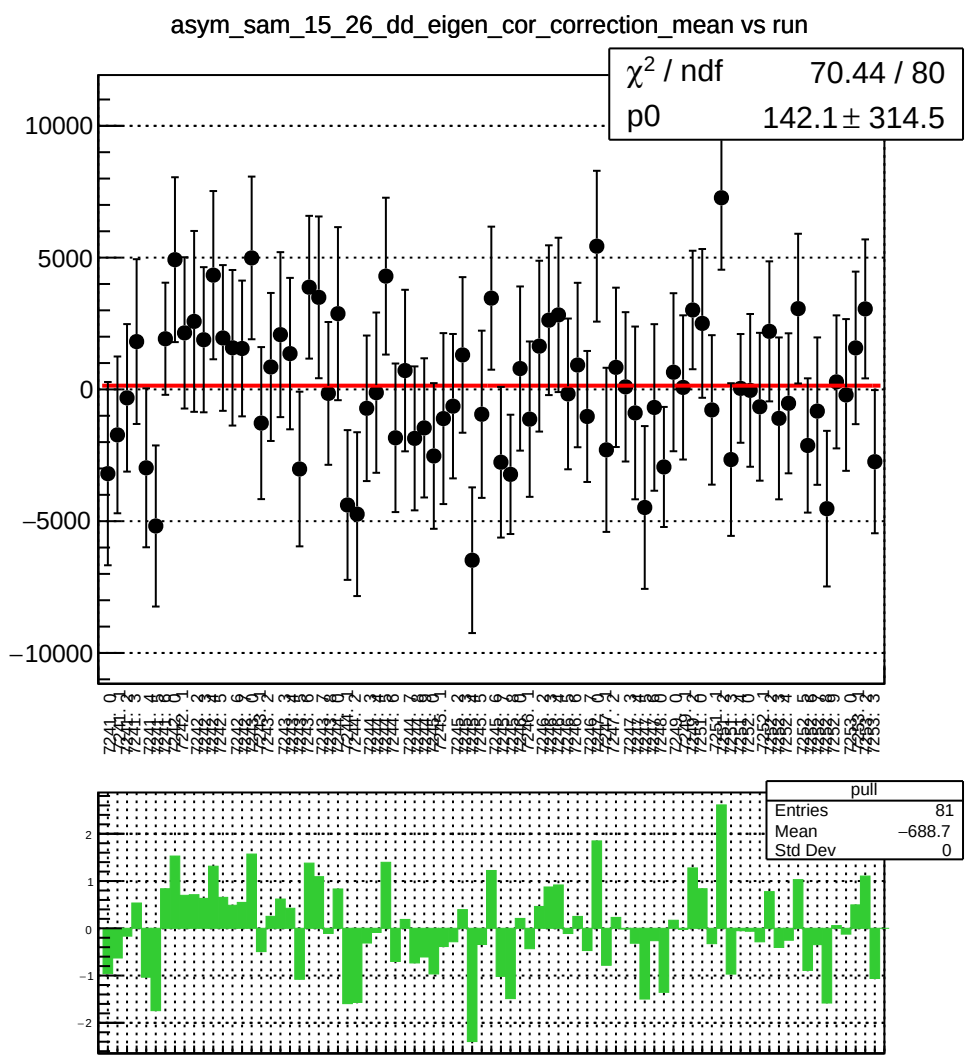

pull1D
Entries 81
Mean 0.002038
Std Dev 0.9325
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

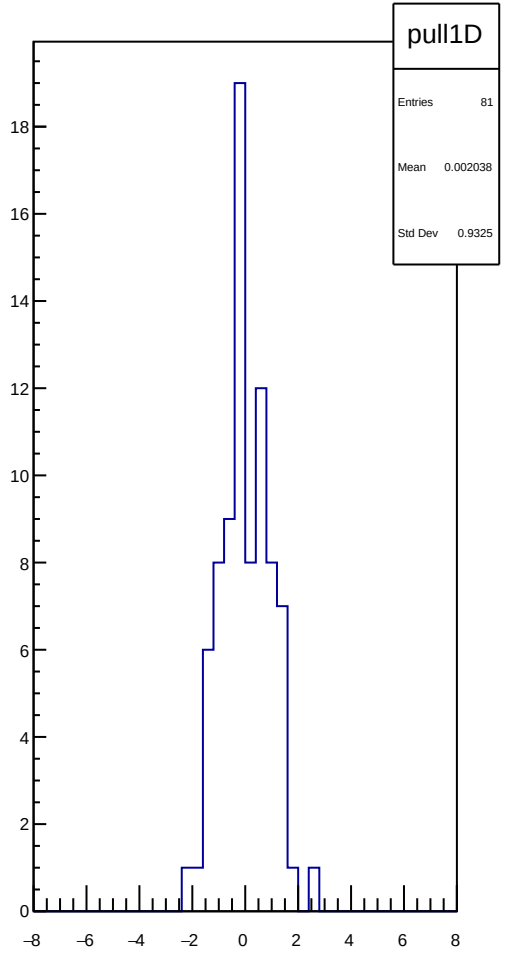

asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 5542 / 80
p0 276.3 ± 0.2224
340
320
300
280
260
240

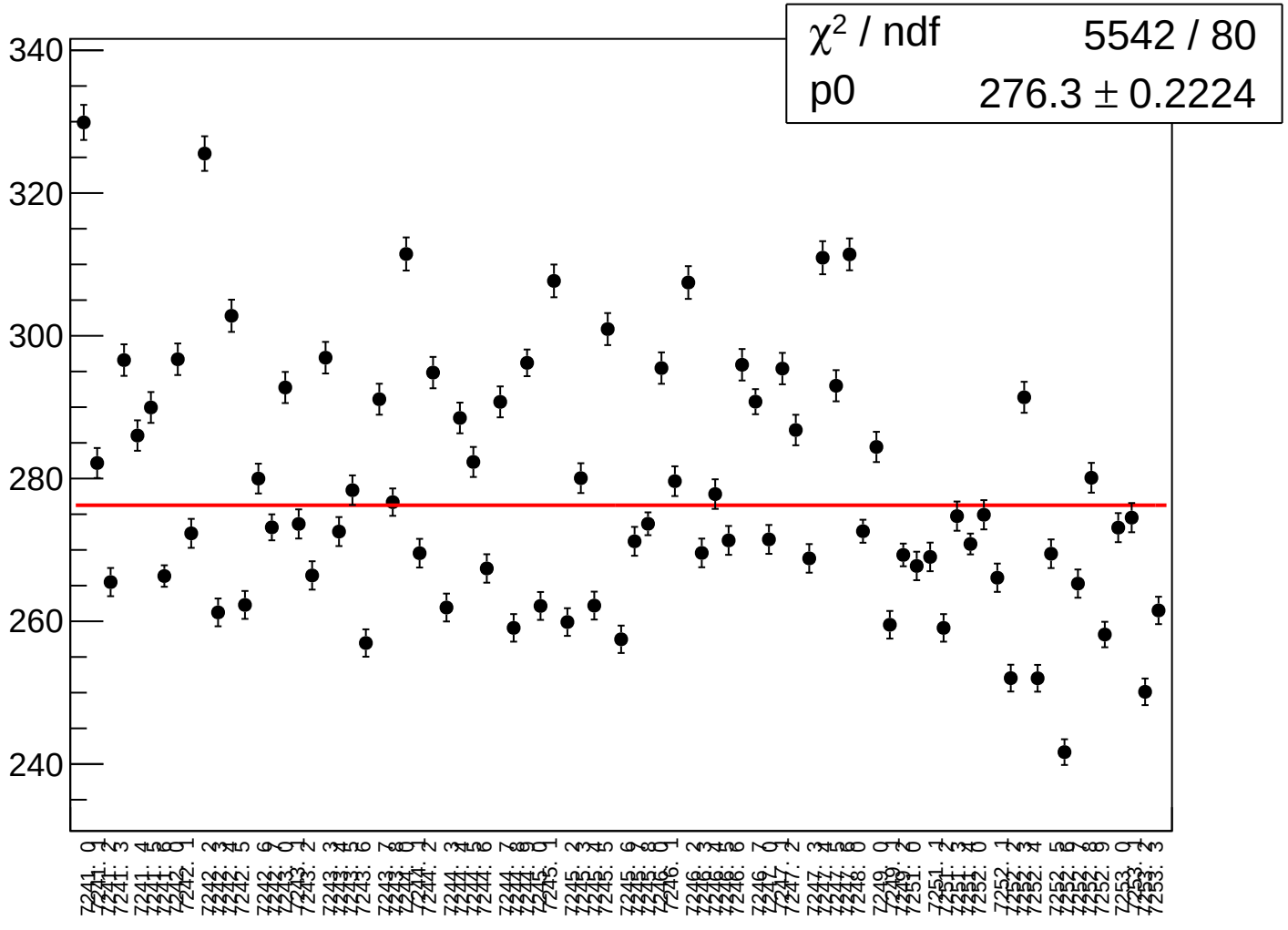

eigen_cor_asym_sam_15_26_dd_mean vs run
χ^2 / ndf 78.2 / 80
p0 99.23 ± 54.31
pull
Entries 81
Mean −187.2
Std Dev 0

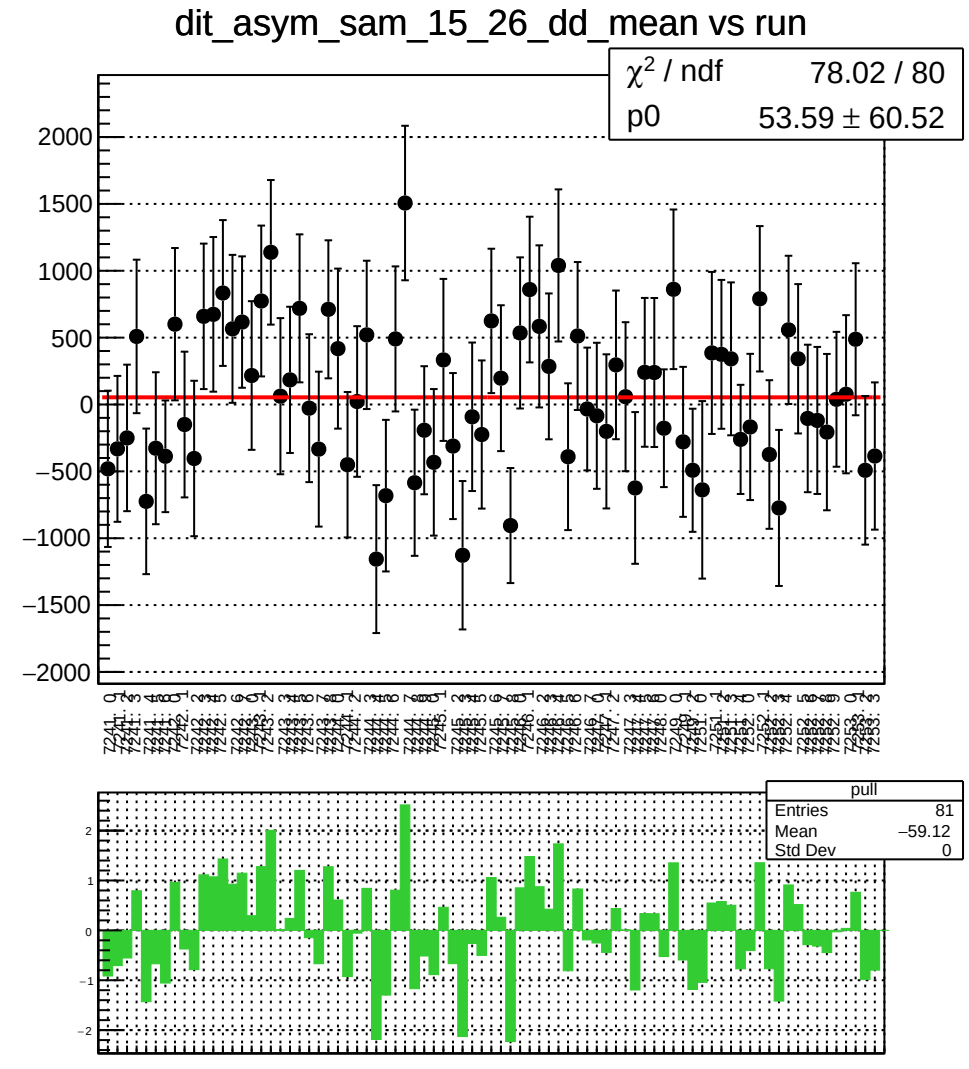

pull1D
Entries 81
Mean 0.01041
Std Dev 0.9825

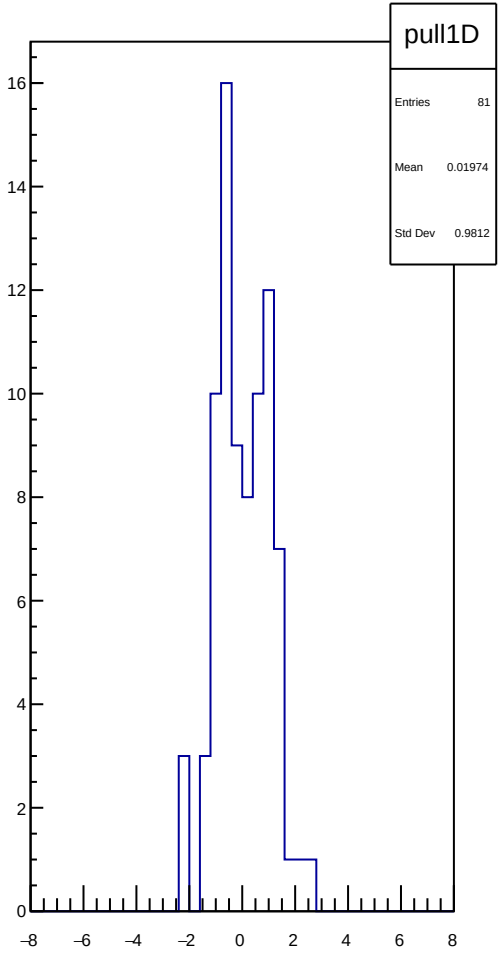

eigen_cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 1571 / 80
p0 47.78 ± 0.03841
56
54
52
50
48
46

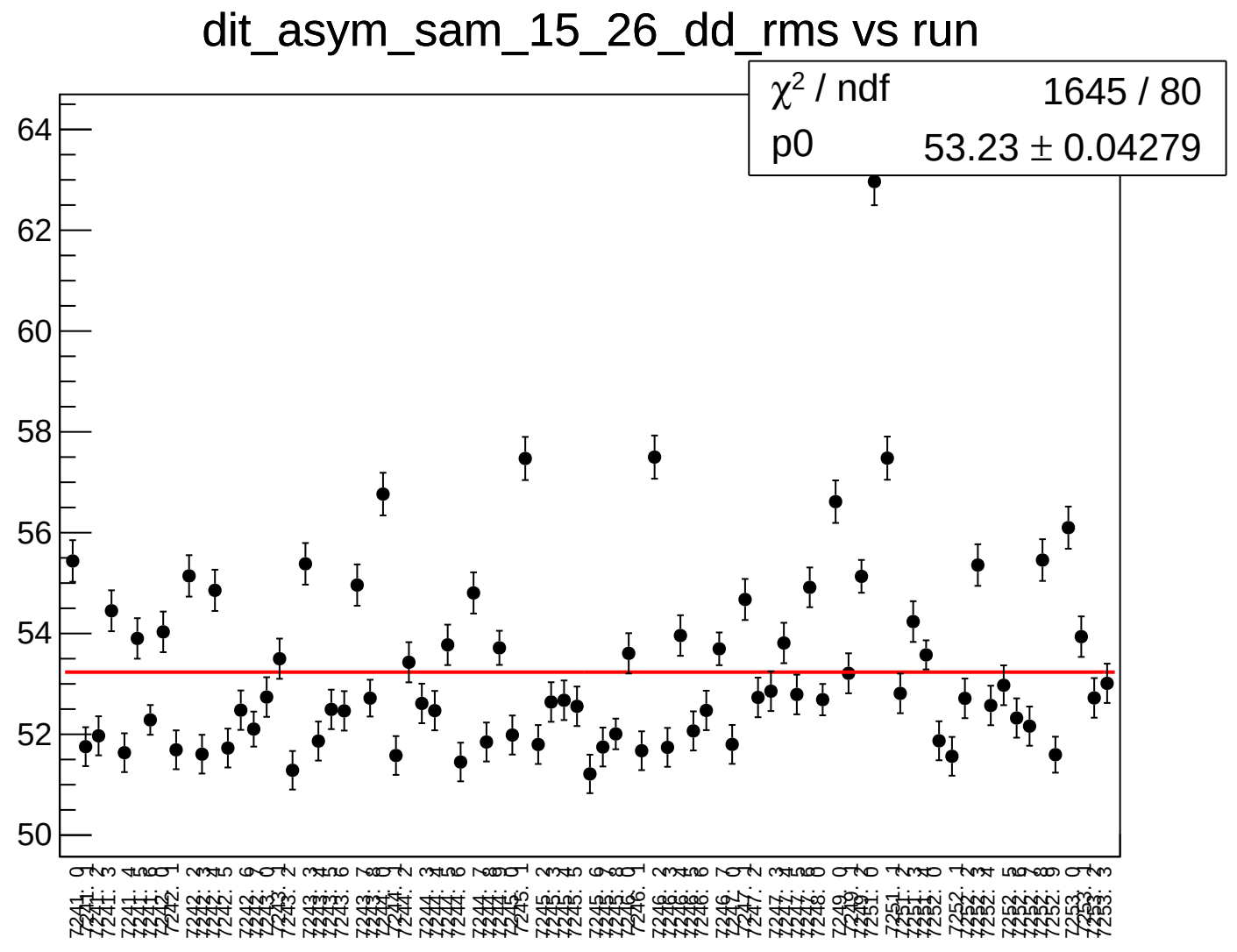

asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 70.44 / 80
p0 142.1 ± 314.5
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −688.7
Std Dev 0
2
1
0
−1
−2

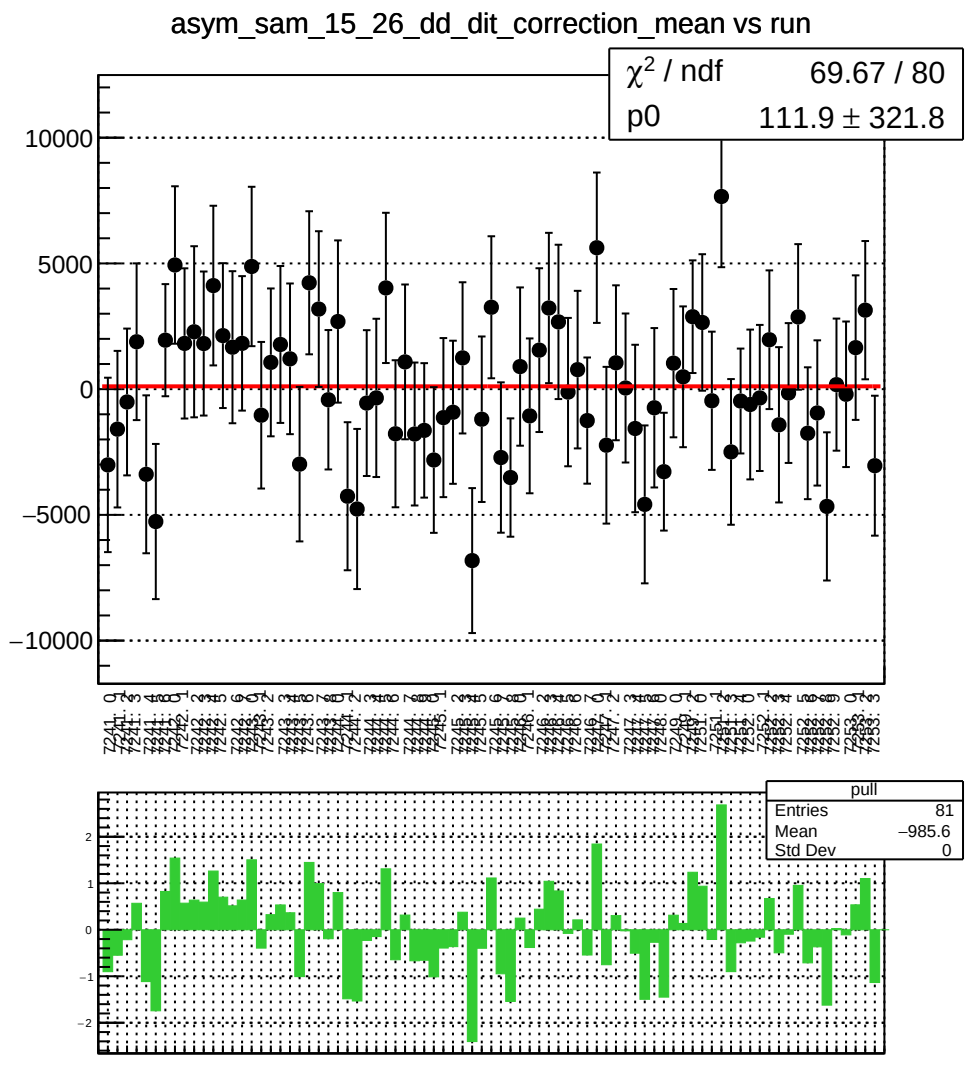

pull1D
Entries 81
Mean 0.002038
Std Dev 0.9325
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

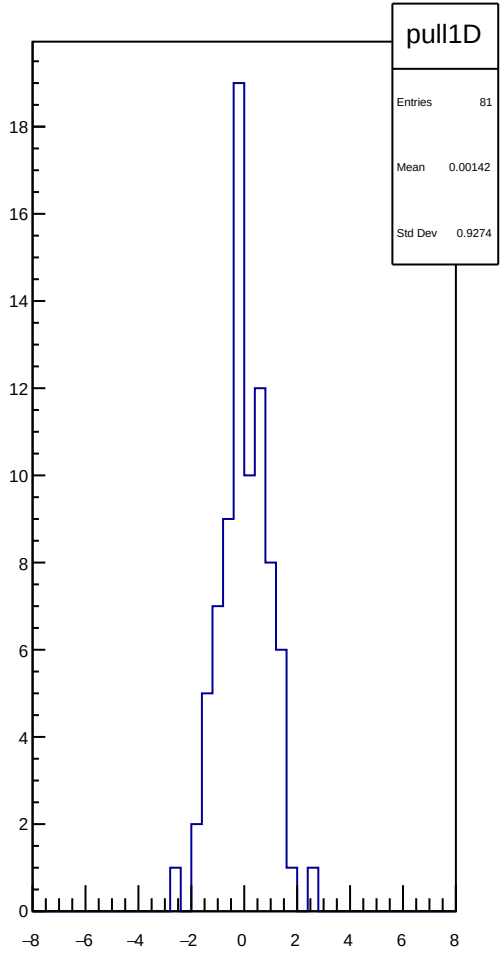

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 5542 / 80
p0 276.3 ± 0.2224
340
320
300
280
260
240

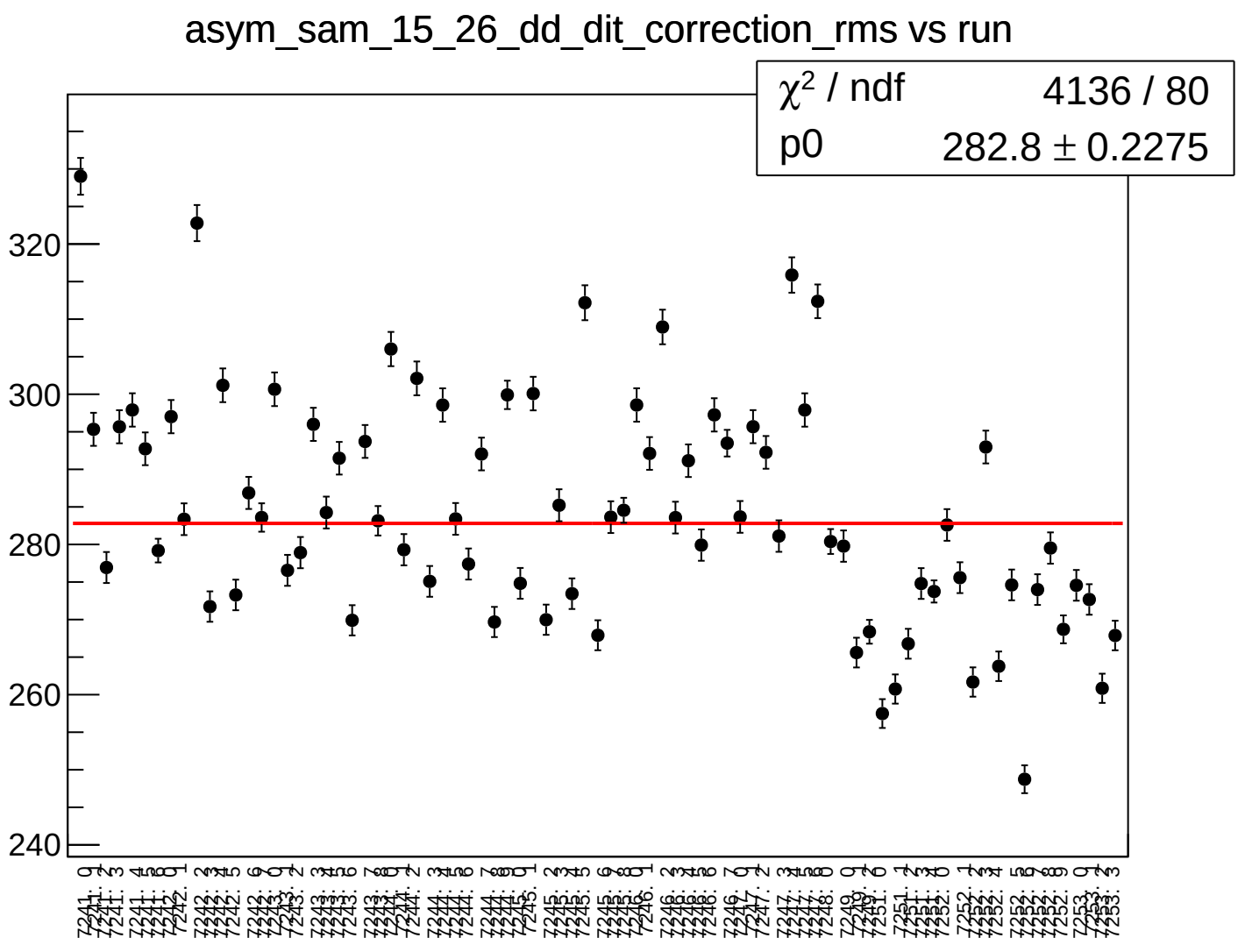

dit_asym_sam_15_26_dd_mean vs run
χ^2 / ndf 78.02 / 80
p0 53.59 ± 60.52
pull
Entries 81
Mean −59.12
Std Dev 0

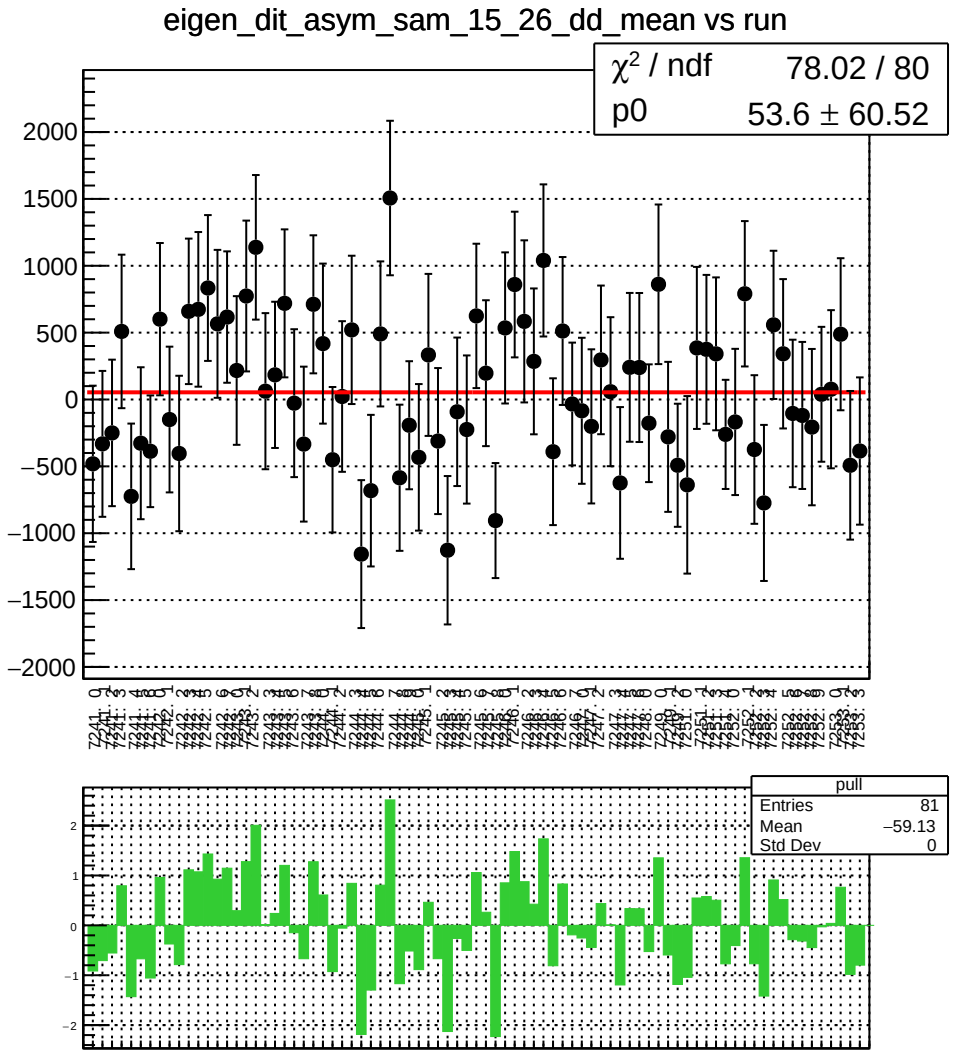

pull1D
Entries 81
Mean 0.01974
Std Dev 0.9812

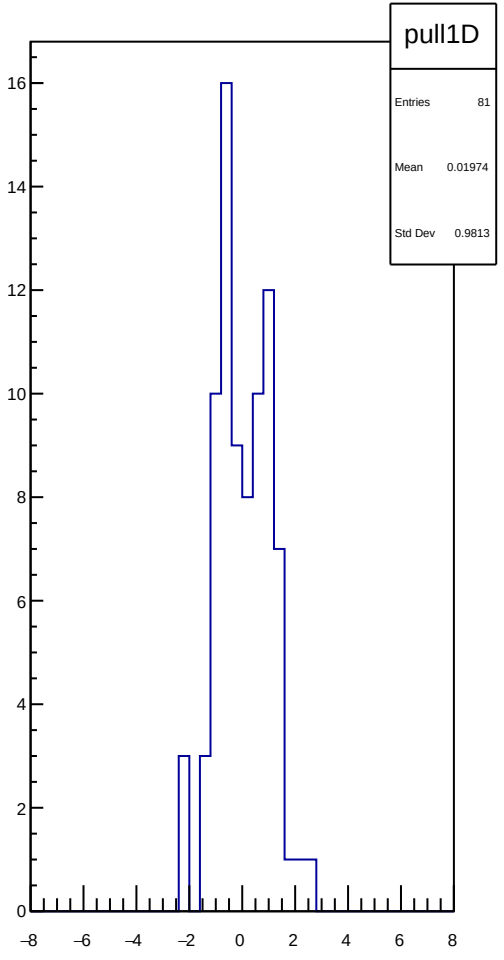

dit_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 1645 / 80
p0 53.23 ± 0.04279
64
62
60
58
56
54
52
50

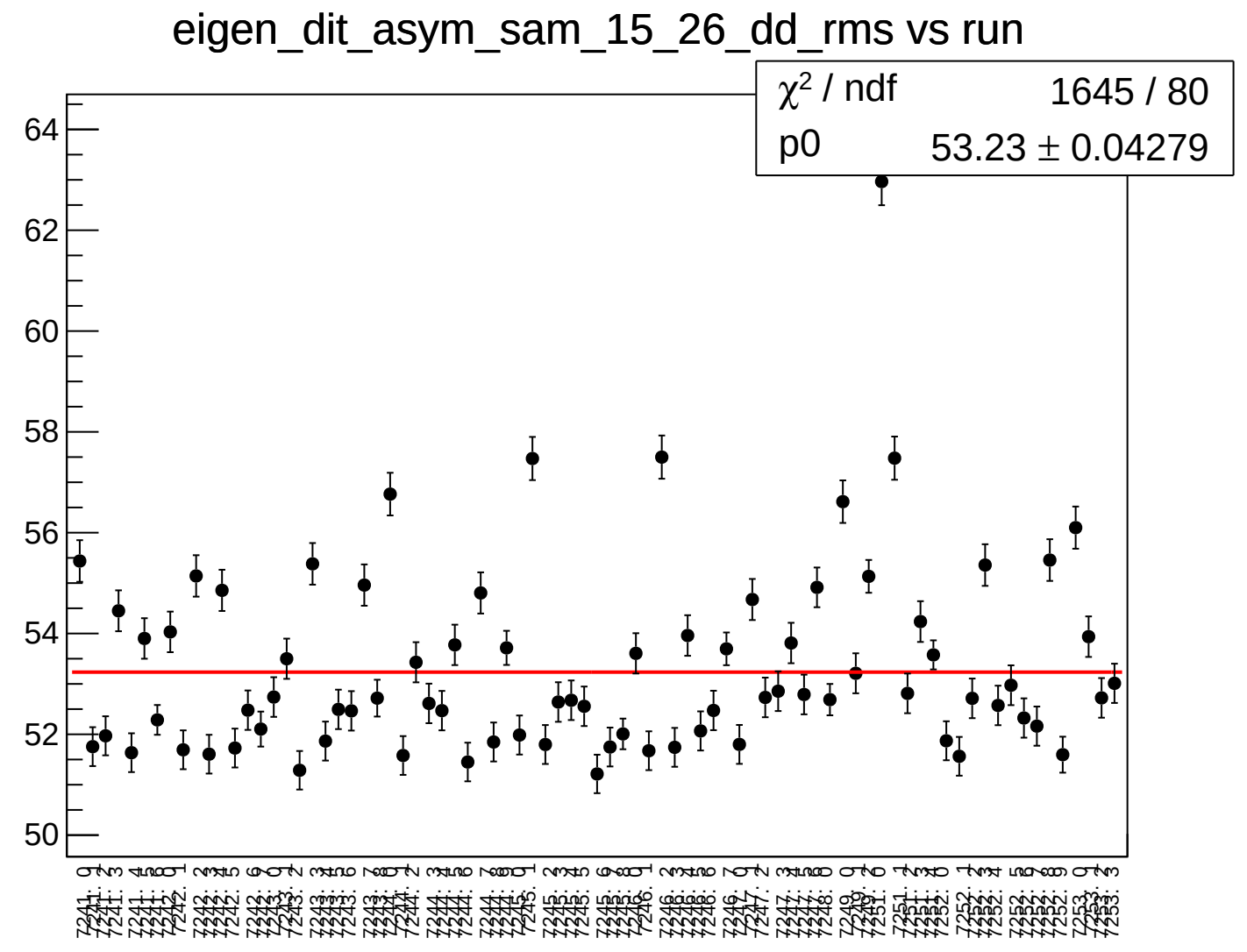

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 69.67 / 80
p0 111.9 ± 321.8
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −985.6
Std Dev 0
2
1
0
−1
−2

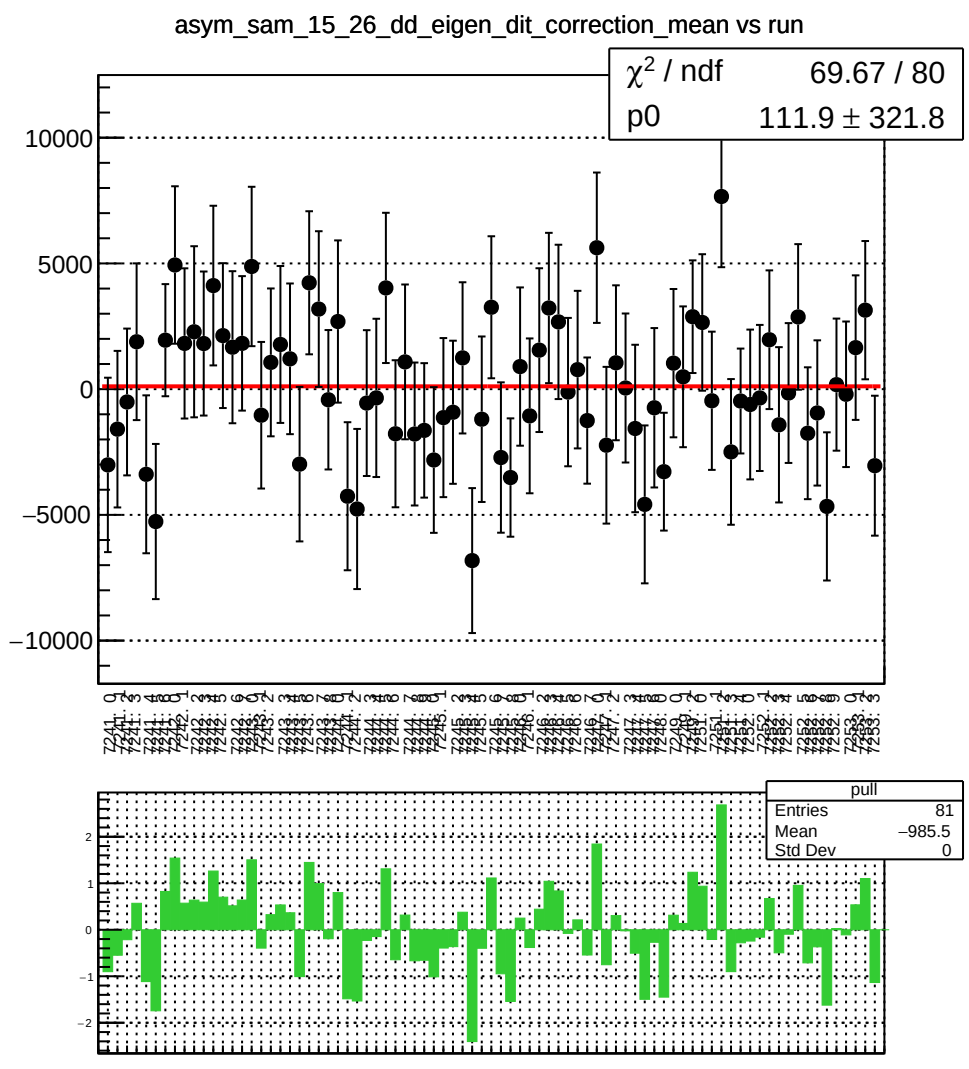

pull1D
Entries 81
Mean 0.00142
Std Dev 0.9274
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

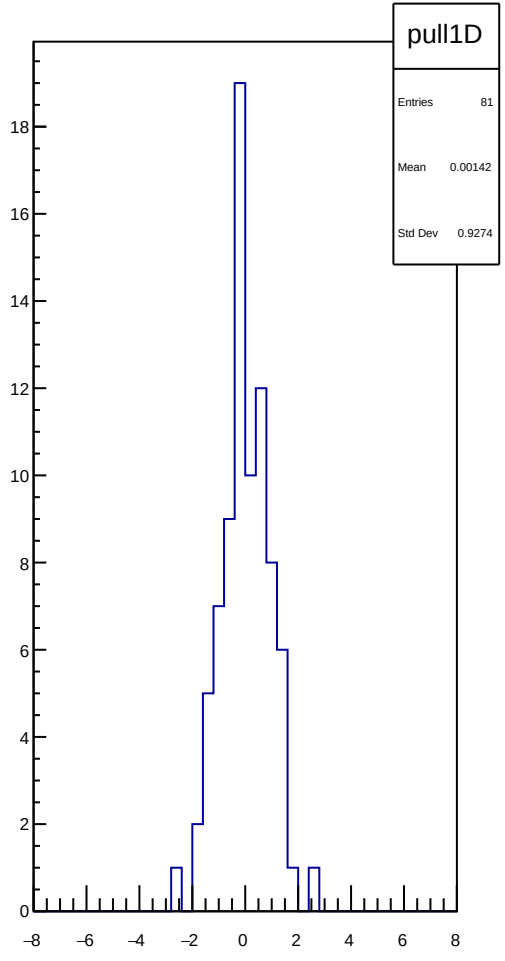

asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 4136 / 80
p0 282.8 ± 0.2275
320
300
280
260
240

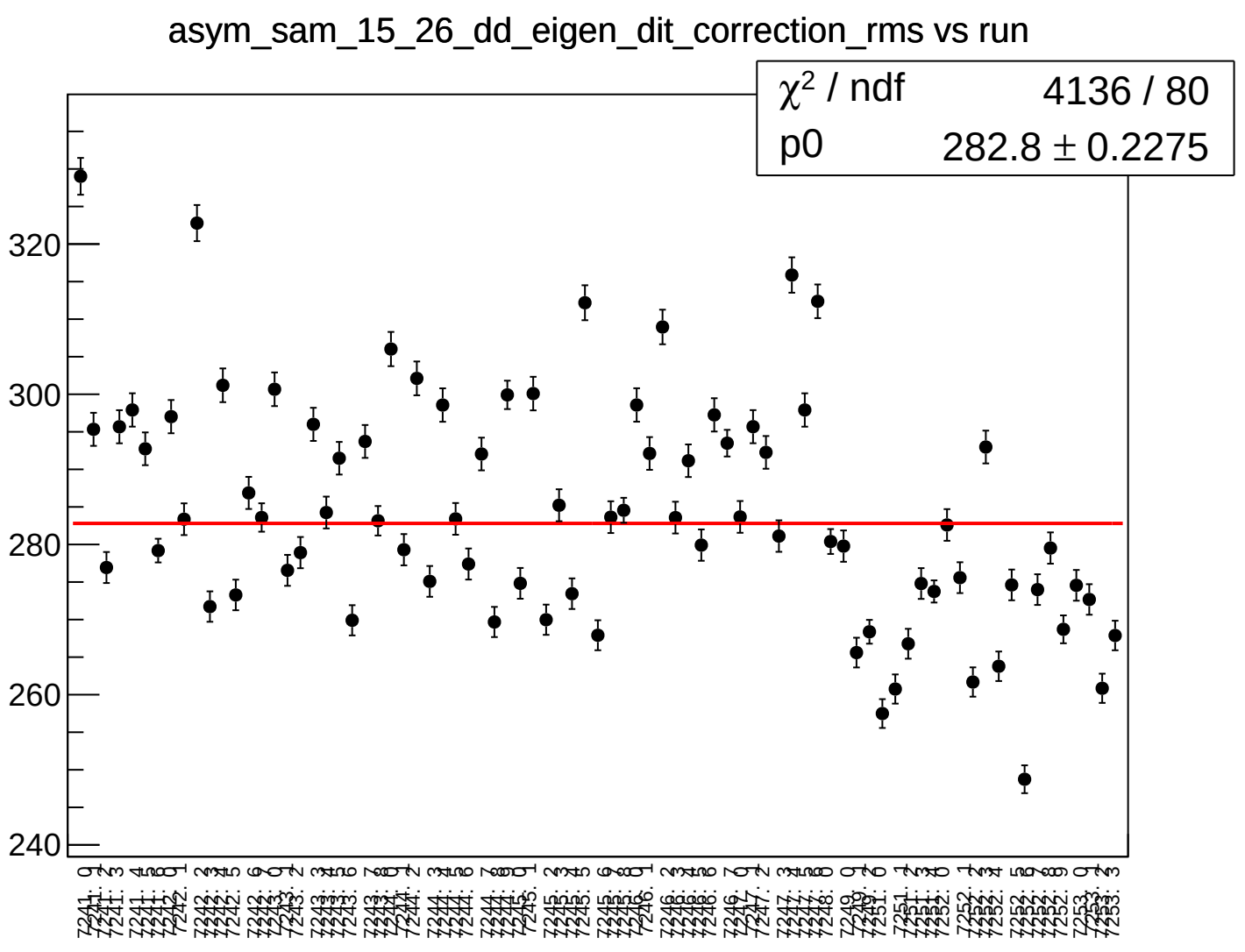

eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 78.02 / 80
p0 53.6 ± 60.52
pull
Entries 81
Mean −59.13
Std Dev 0

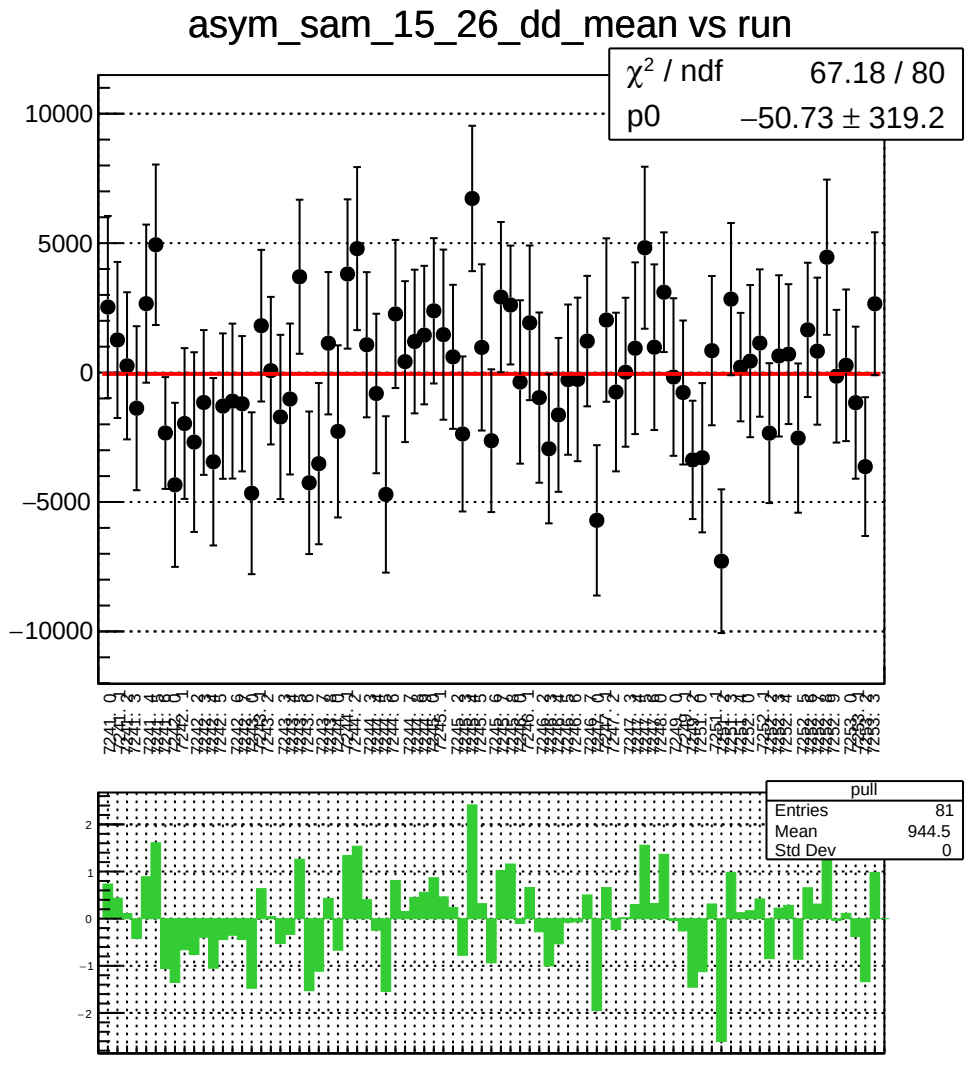

pull1D
Entries 81
Mean 0.01974
Std Dev 0.9813

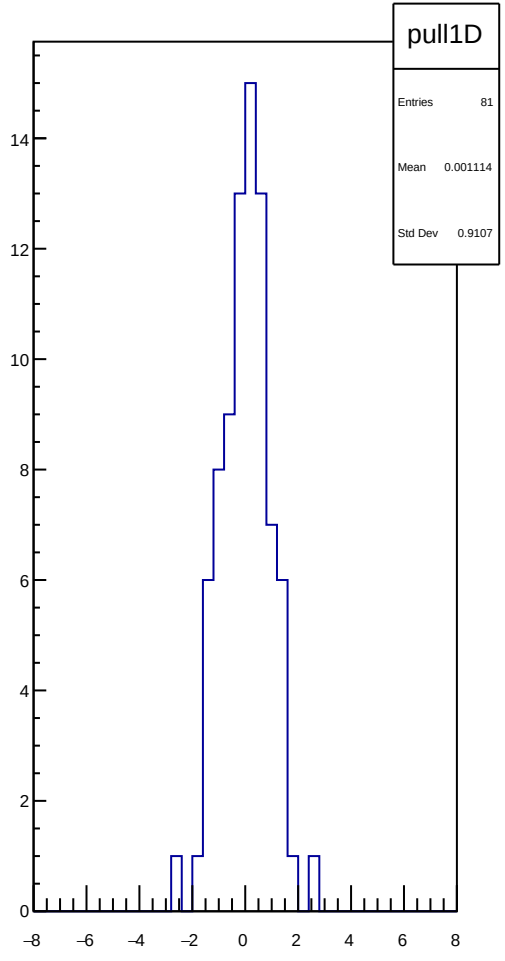

eigen_dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 1645 / 80
p0 53.23 ± 0.04279
64
62
60
58
56
54
52
50

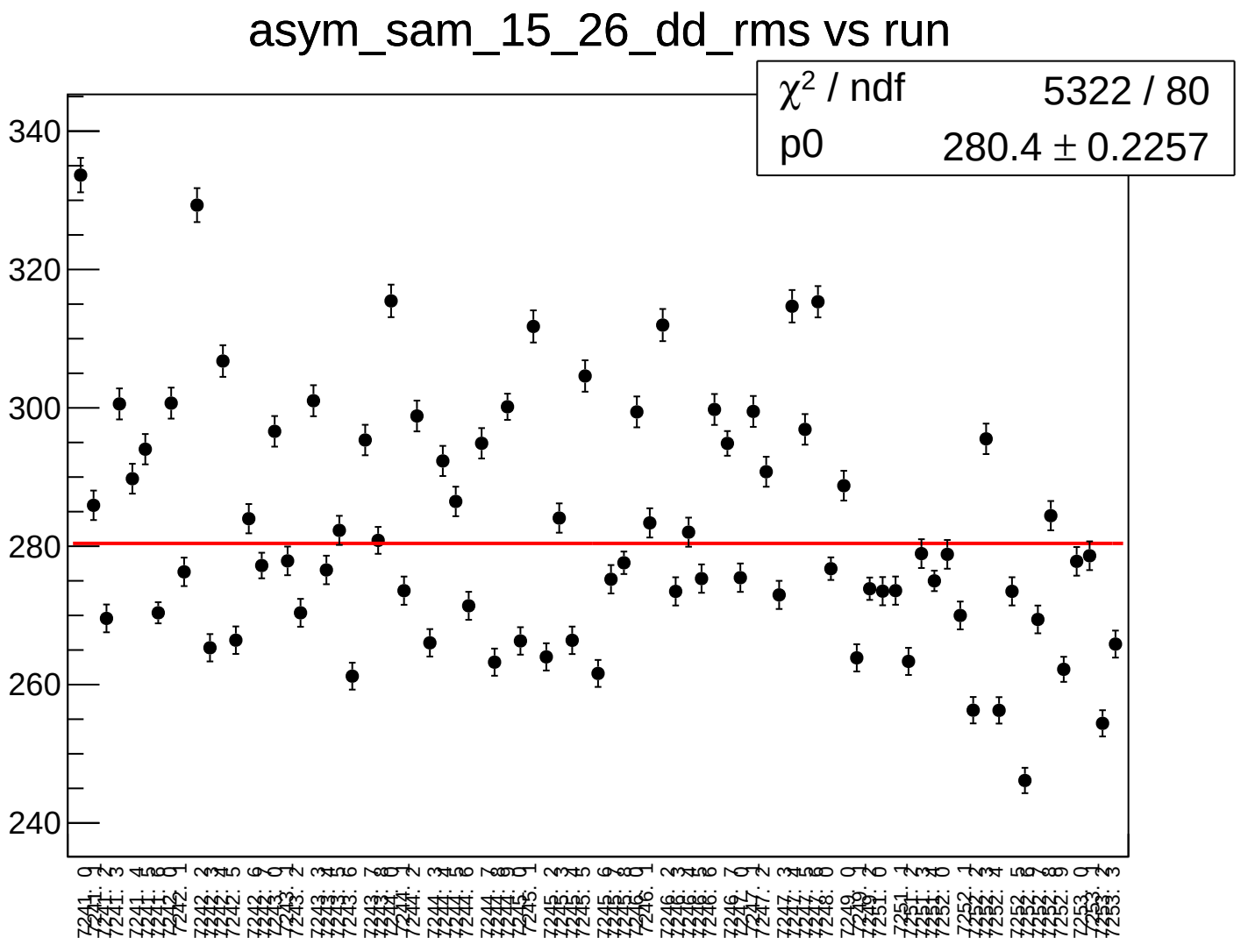

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 69.67 / 80
p0 111.9 ± 321.8
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −985.5
Std Dev 0
2
1
0
−1
−2

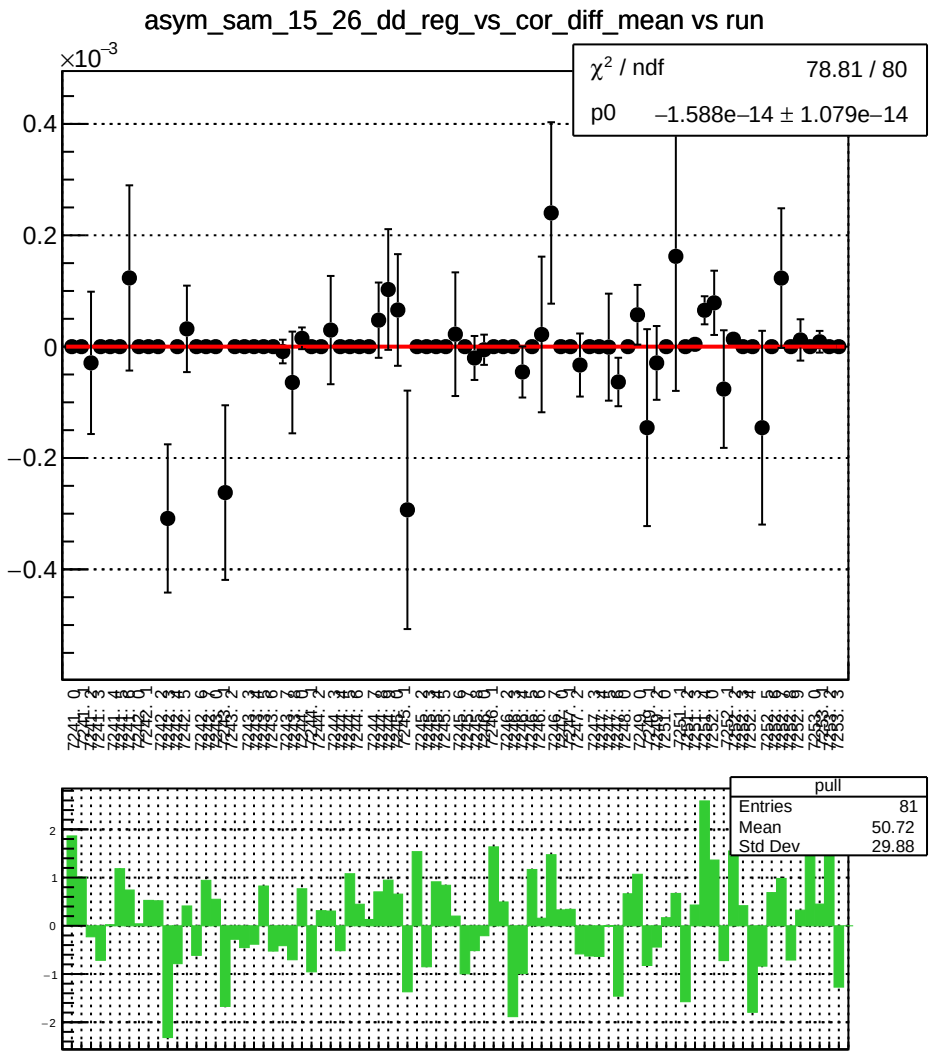

pull1D
Entries 81
Mean 0.00142
Std Dev 0.9274
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

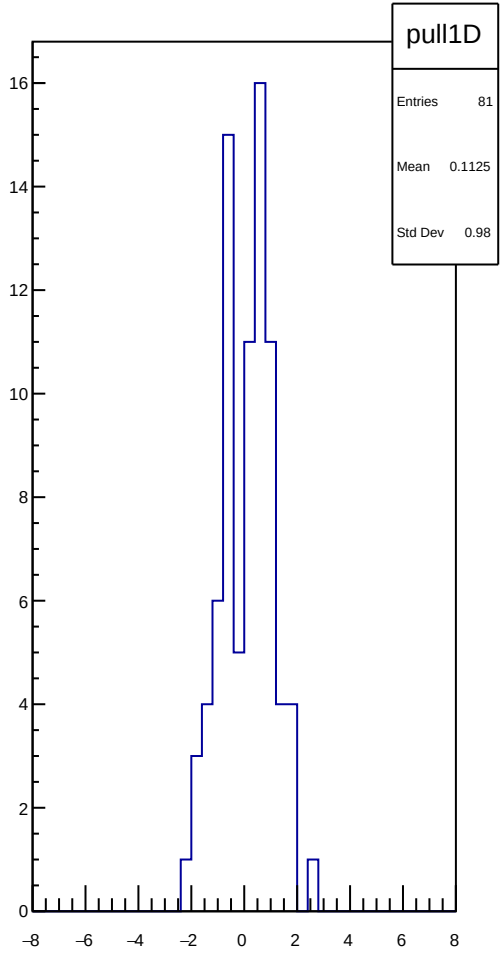

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 4136 / 80
p0 282.8 ± 0.2275
320
300
280
260
240

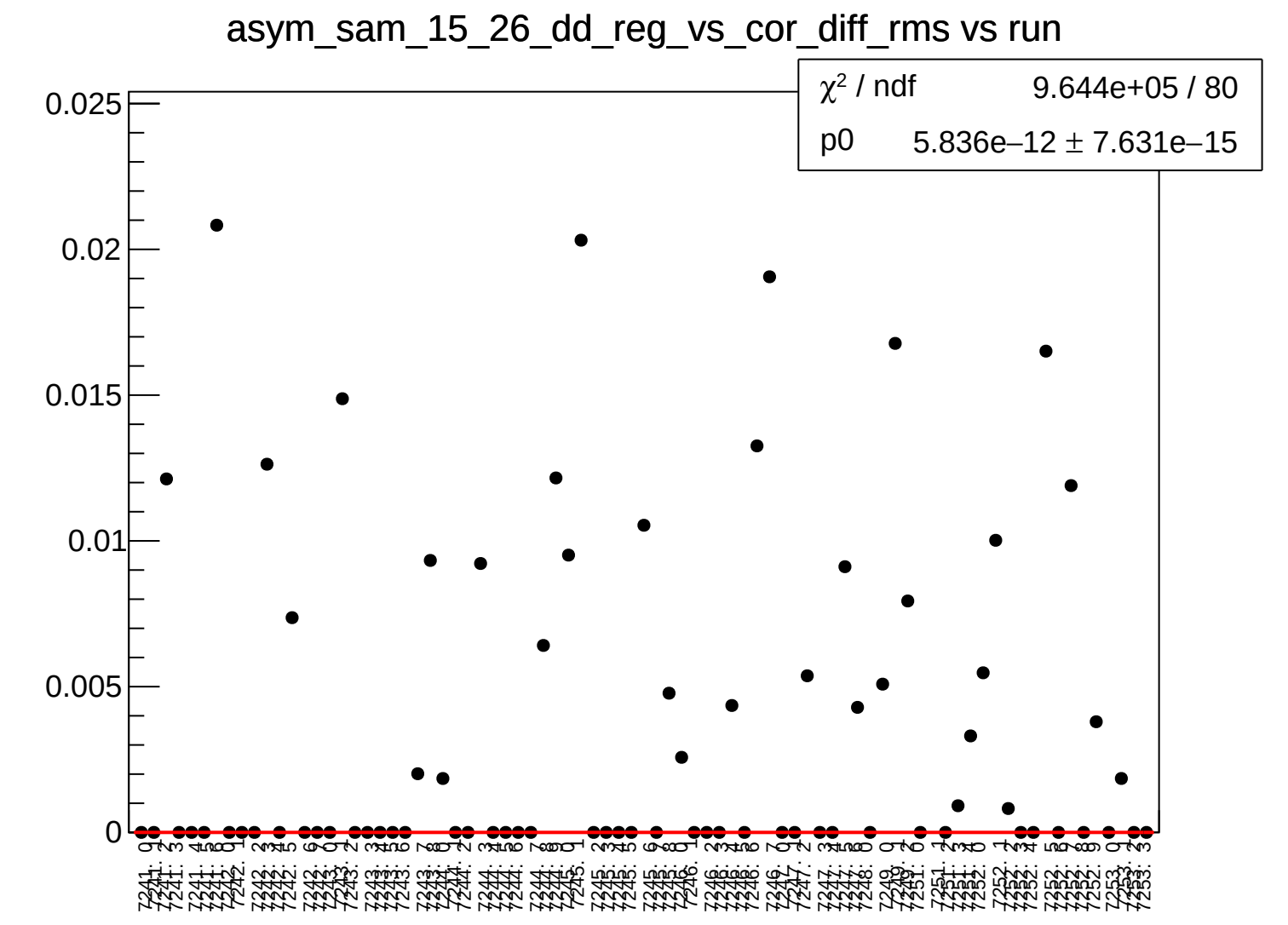

asym_sam_15_26_dd_mean vs run
χ² / ndf 67.18 / 80
p0 −50.73 ± 319.2
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 944.5
Std Dev 0
2
1
0
−1
−2

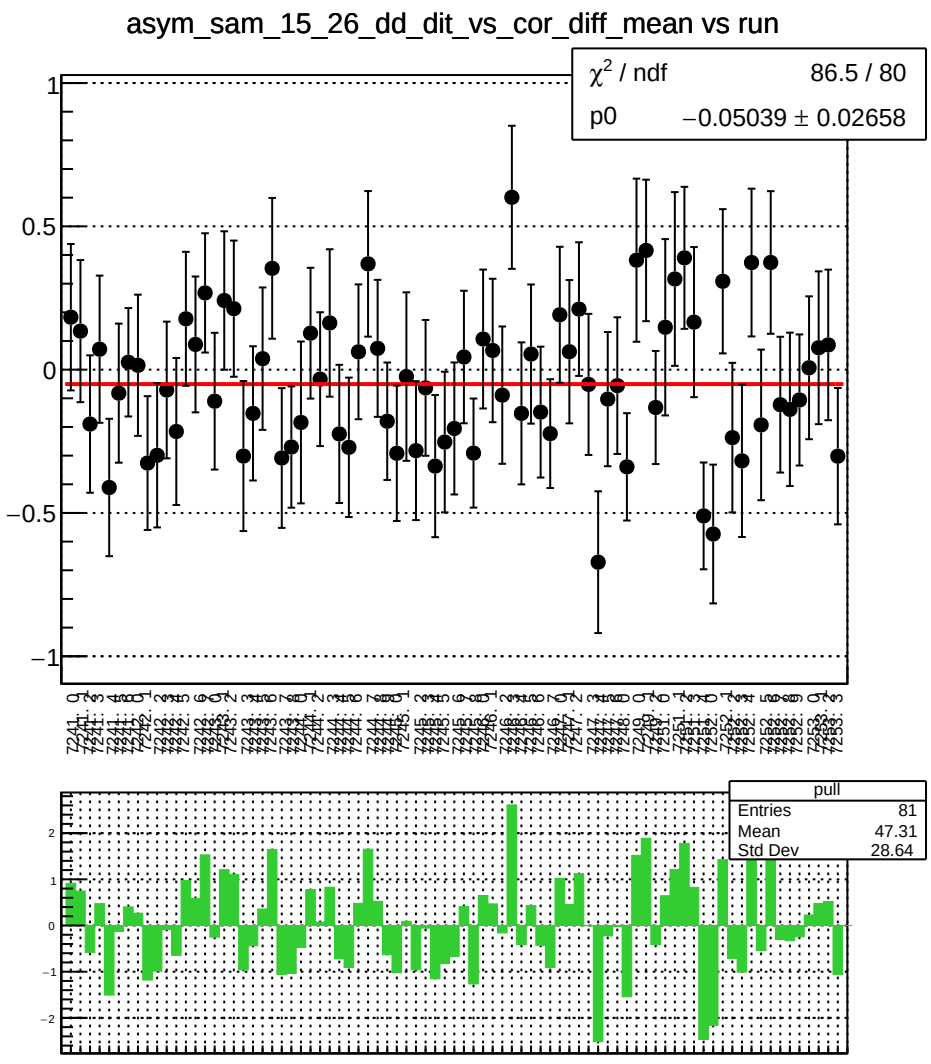

pull1D
Entries 81
Mean 0.001114
Std Dev 0.9107
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

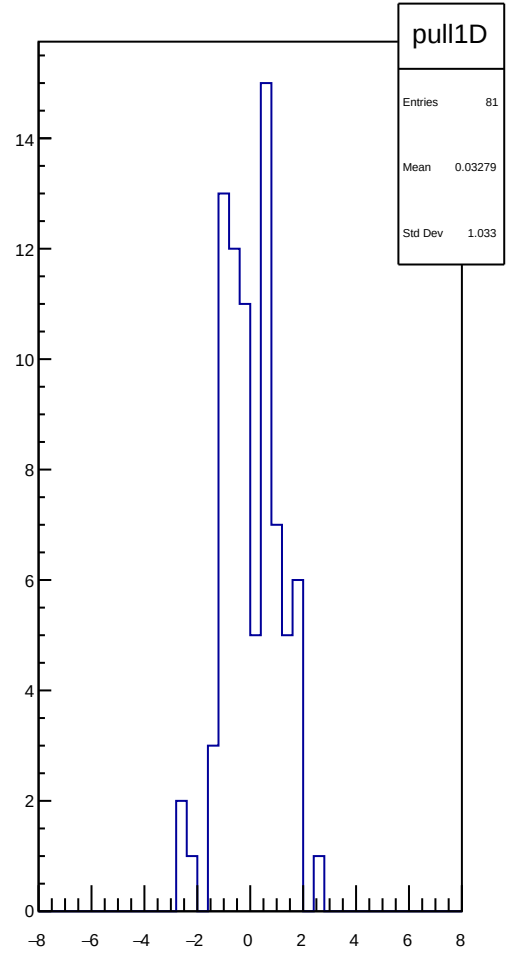

asym_sam_15_26_dd_rms vs run
χ² / ndf 5322 / 80
p0 280.4 ± 0.2257
340
320
300
280
260
240

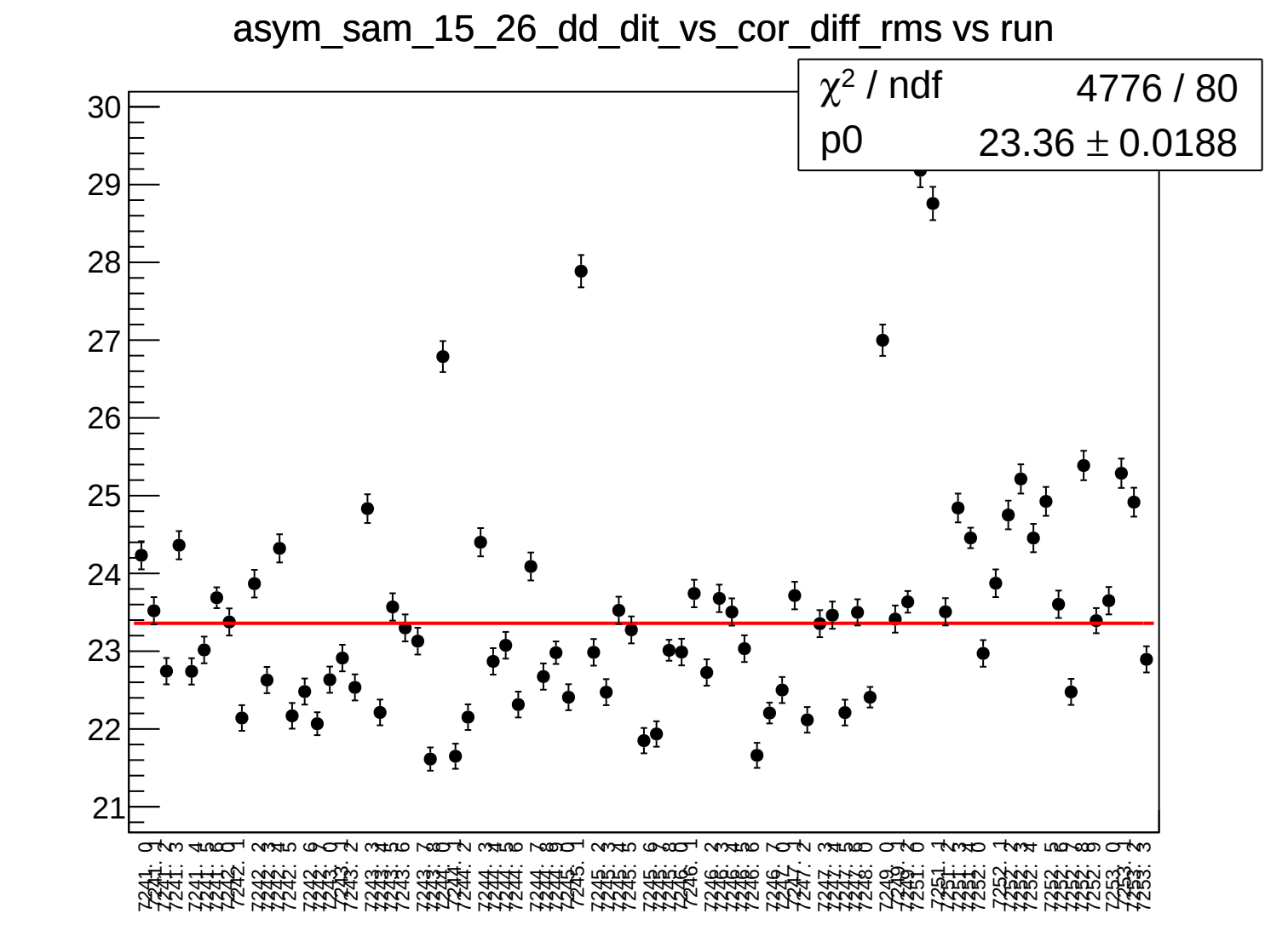

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 78.81 / 80
p0 −1.588e−14 ± 1.079e−14
0.4
0.2
0
−0.2
−0.4
pull
Entries 81
Mean 50.72
Std Dev 29.88
2
1
0
−1
−2

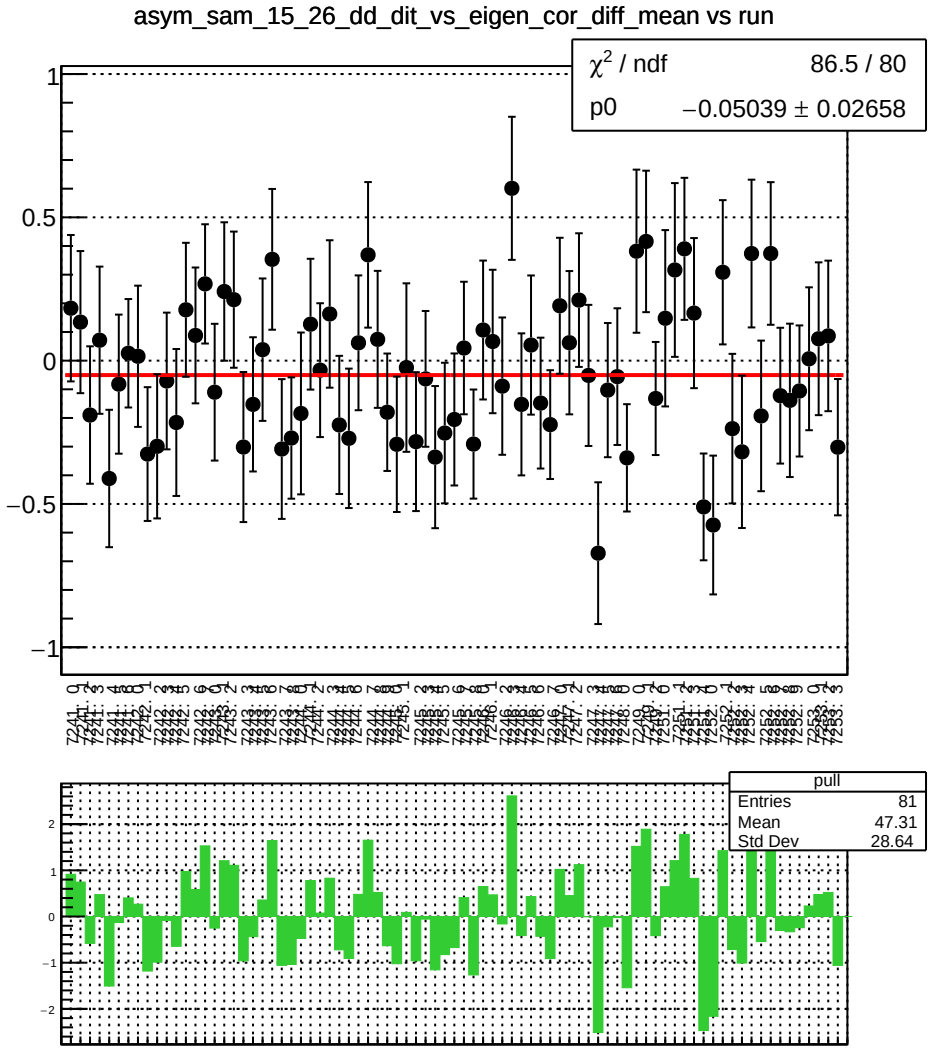

pull1D
Entries 81
Mean 0.1125
Std Dev 0.98
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

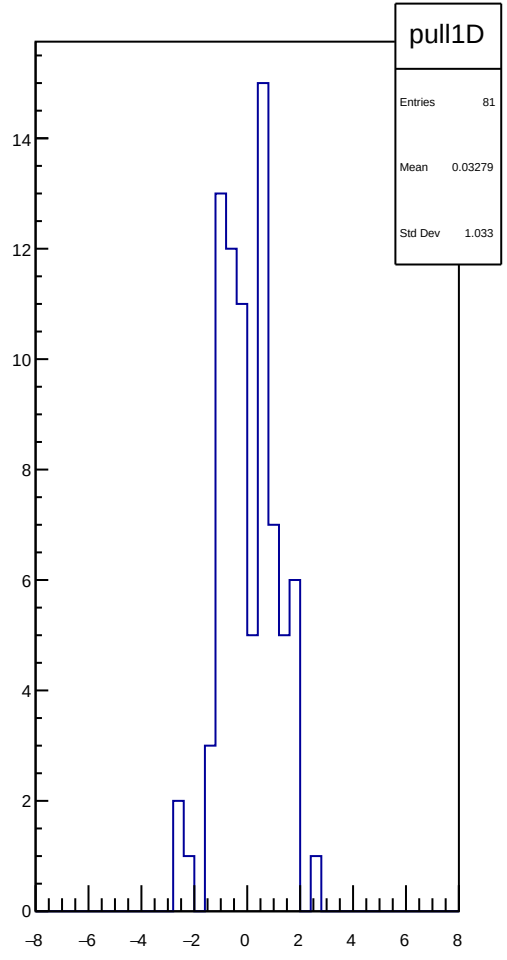

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.644e+05 / 80
p0 5.836e−12 ± 7.631e−15
0.025
0.02
0.015
0.01
0.005
0

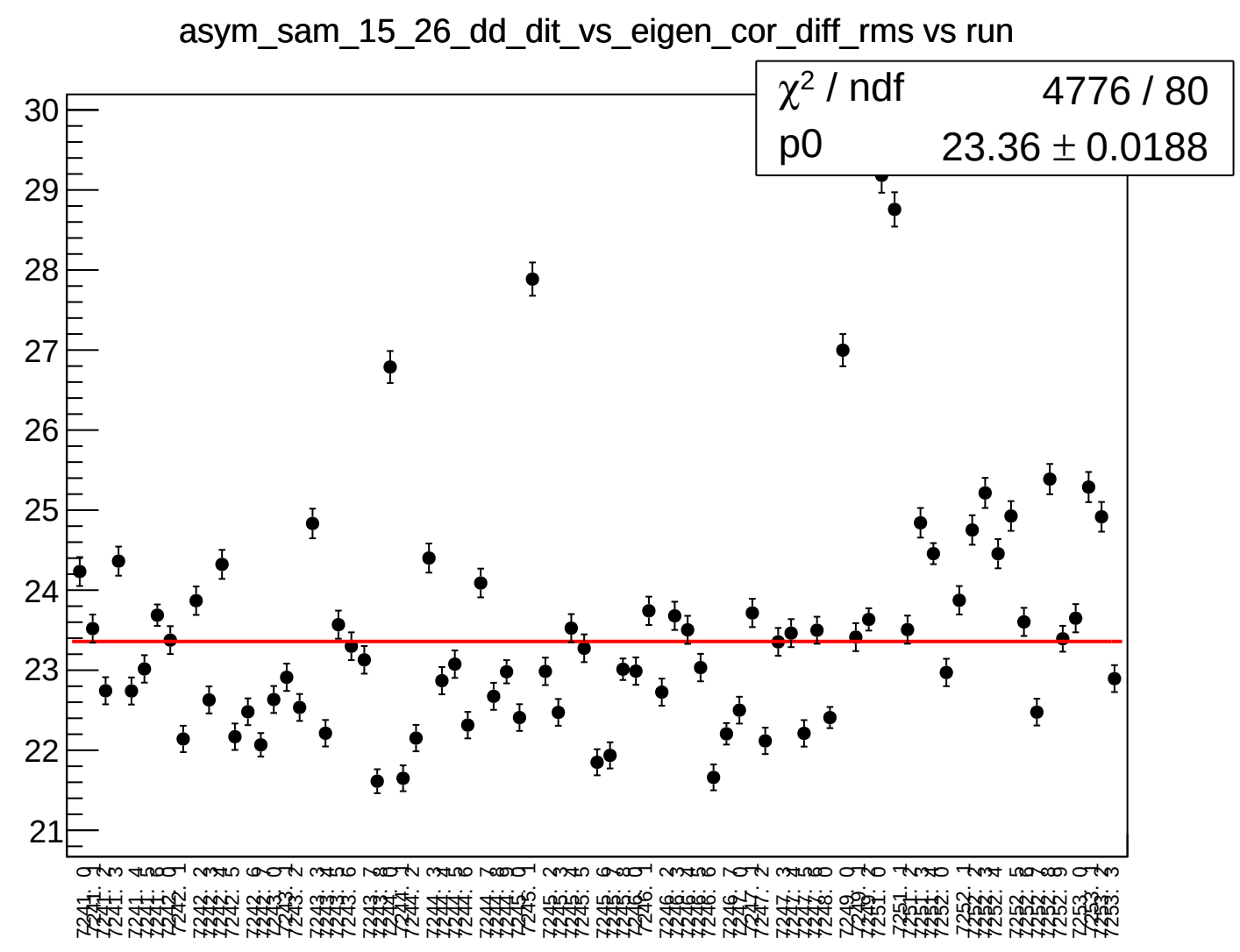

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.5 / 80
p0 −0.05039 ± 0.02658
pull
Entries 81
Mean 47.31
Std Dev 28.64

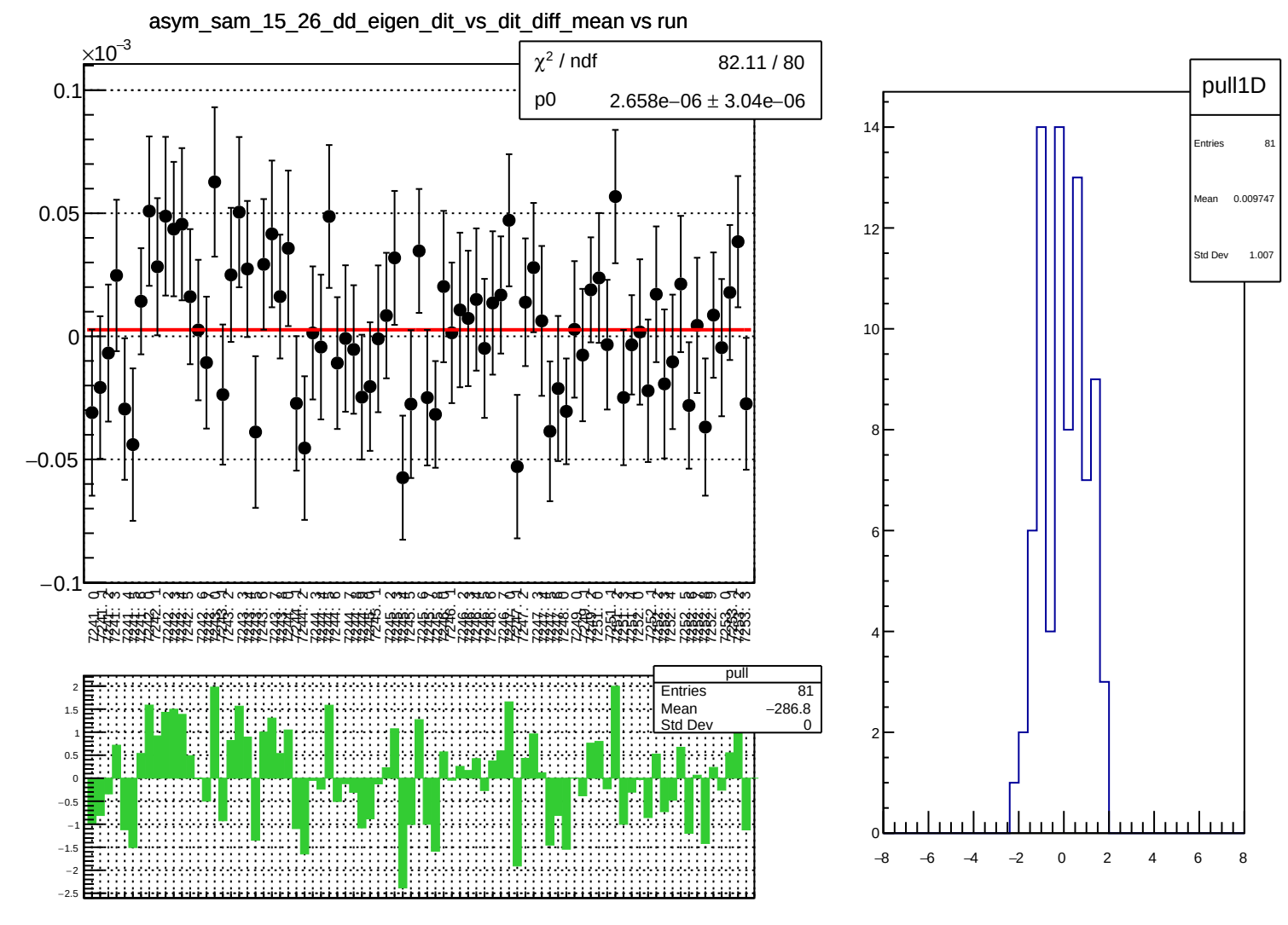

pull1D
Entries 81
Mean 0.03279
Std Dev 1.033

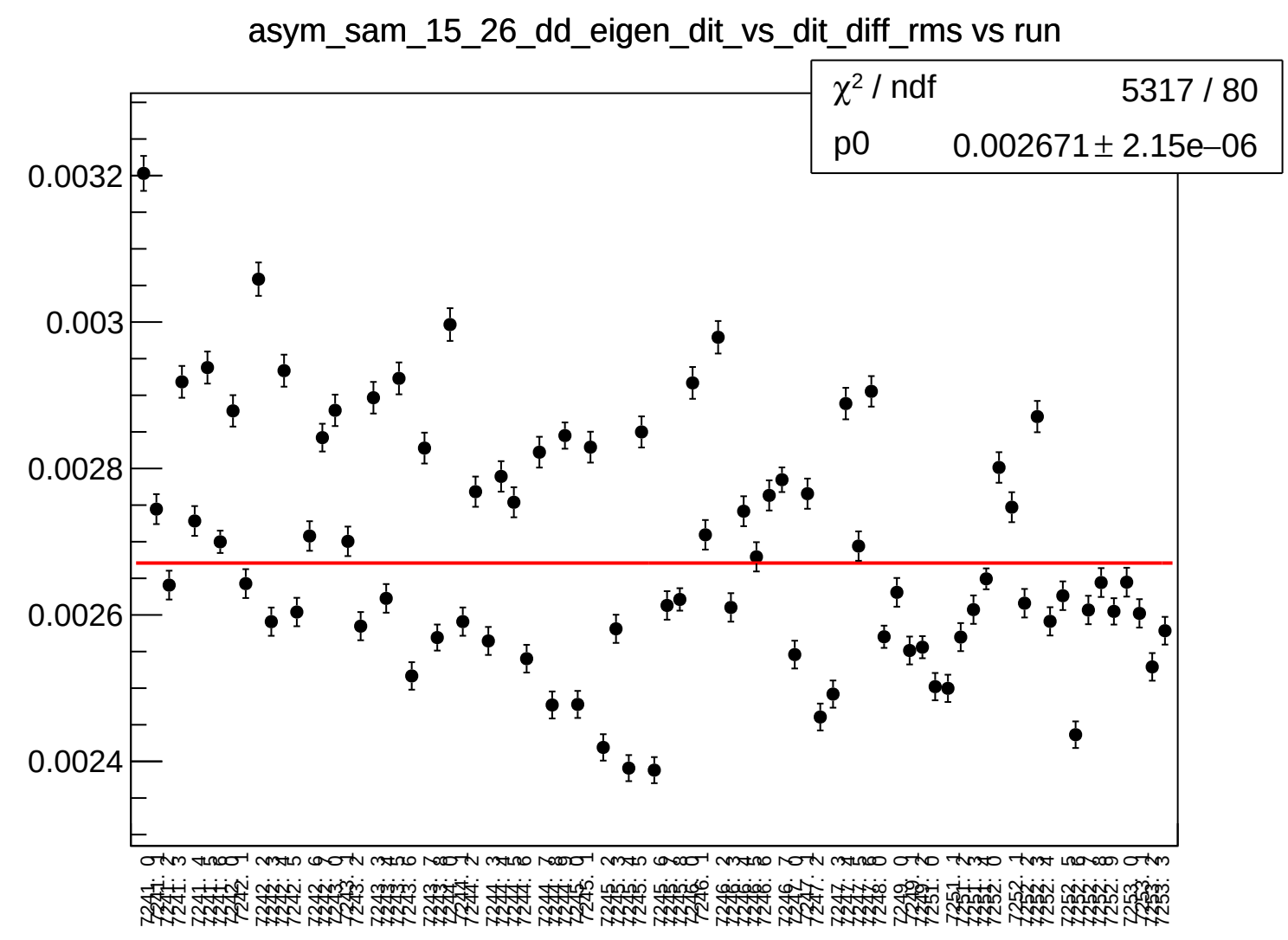

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4776 / 80
p0 23.36 ± 0.0188
30
29
28
27
26
25
24
23
22
21

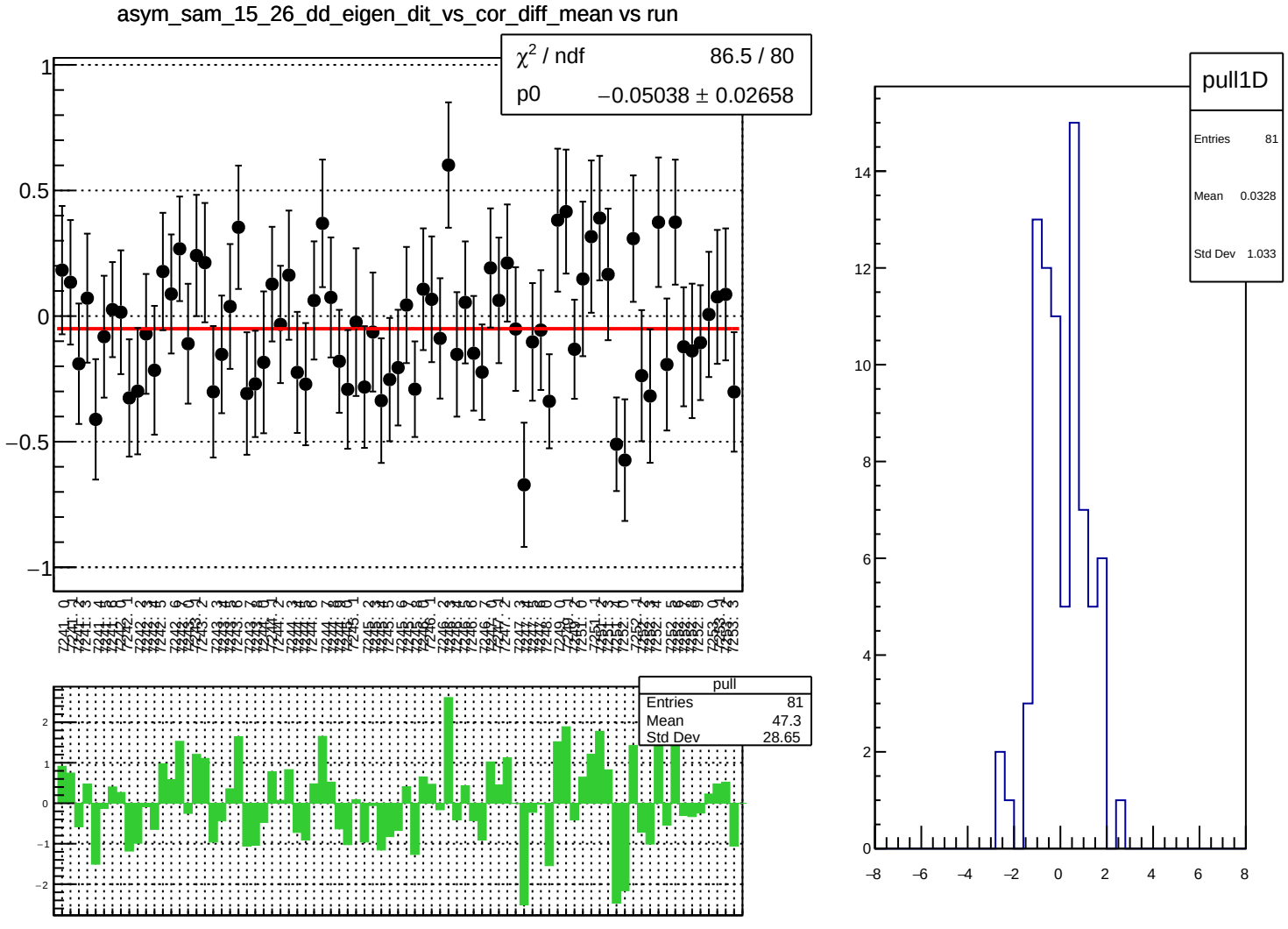

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.5 / 80
p0 −0.05039 ± 0.02658
pull
Entries 81
Mean 47.31
Std Dev 28.64

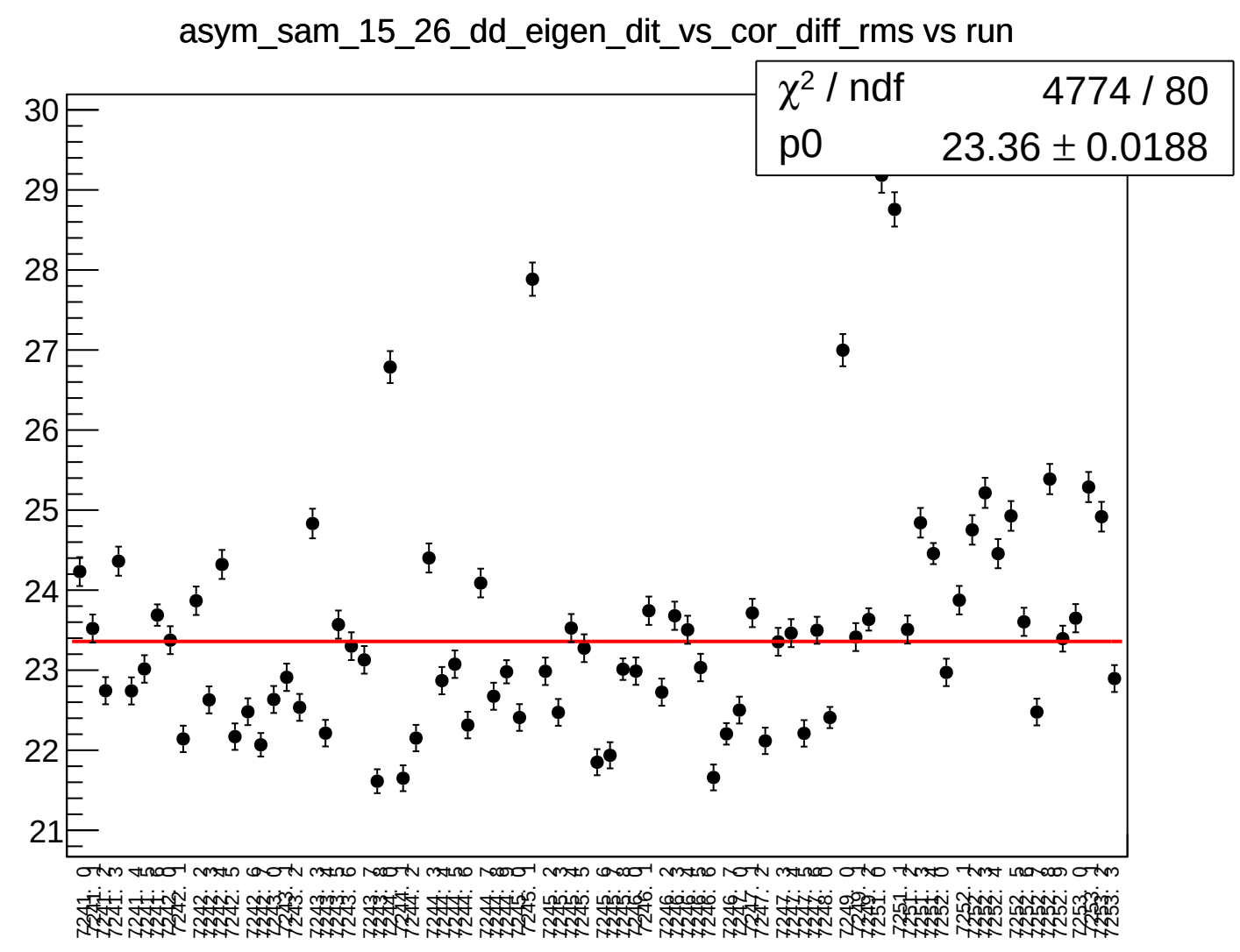

pull1D
Entries 81
Mean 0.03279
Std Dev 1.033

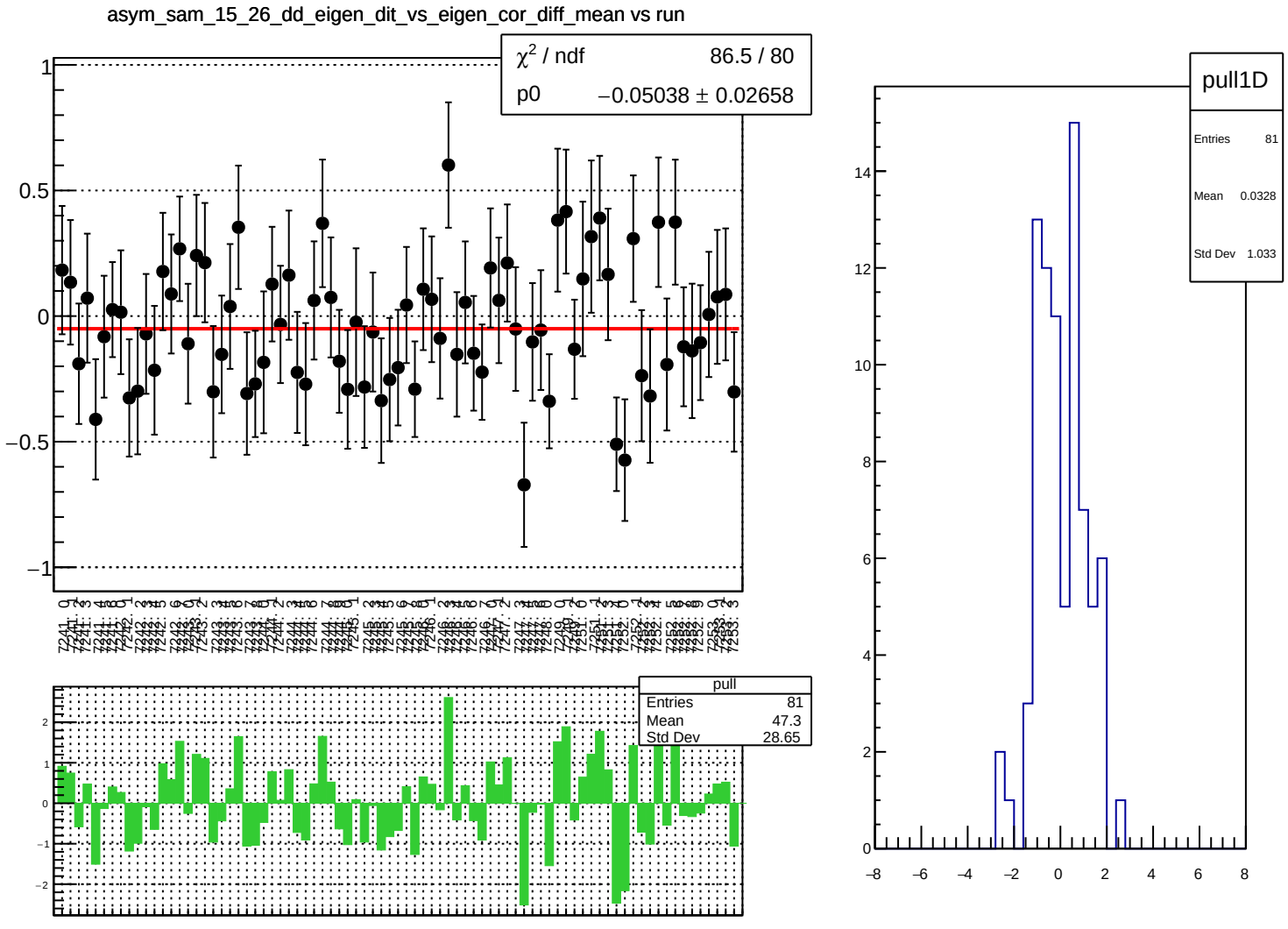

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4776 / 80
p0 23.36 ± 0.0188
30
29
28
27
26
25
24
23
22
21

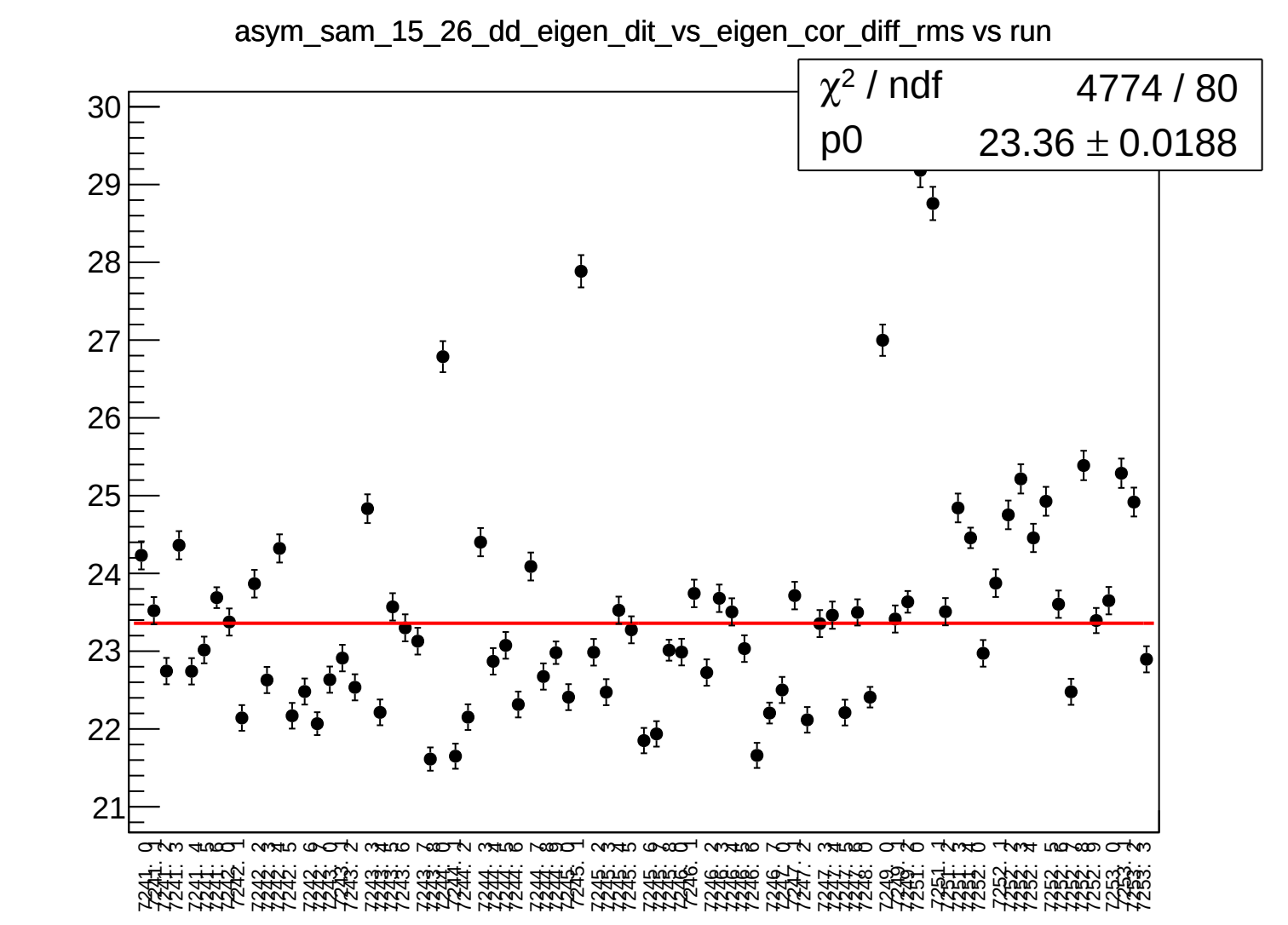

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 82.11 / 80
p0 2.658e−06 ± 3.04e−06
pull
Entries 81
Mean −286.8
Std Dev 0
pull1D
Entries 81
Mean 0.009747
Std Dev 1.007

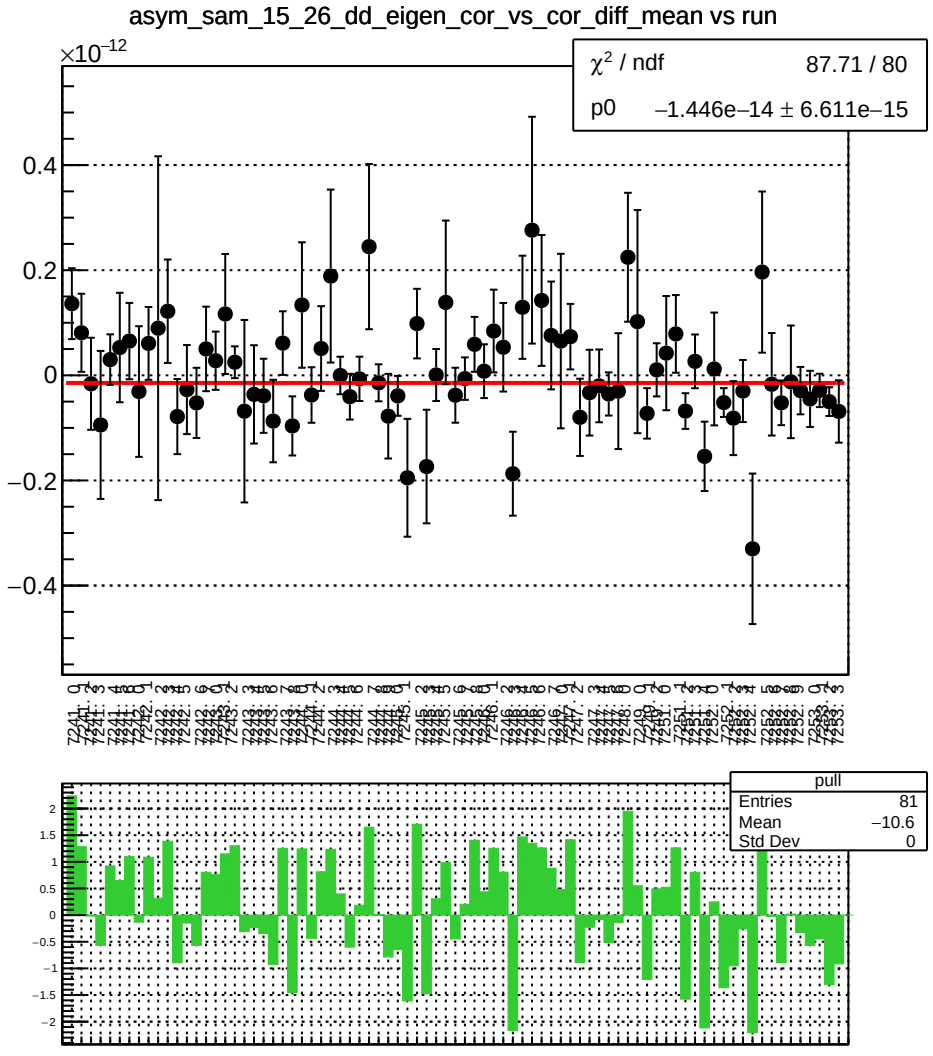

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5317 / 80
p0 0.002671 ± 2.15e–06
0.0032
0.003
0.0028
0.0026
0.0024

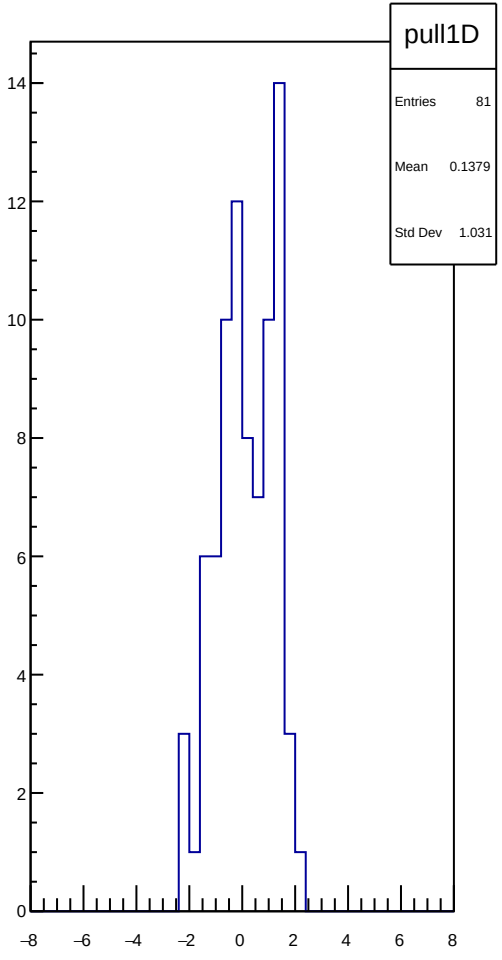

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.5 / 80
p0 −0.05038 ± 0.02658
pull
Entries 81
Mean 47.3
Std Dev 28.65
pull1D
Entries 81
Mean 0.0328
Std Dev 1.033

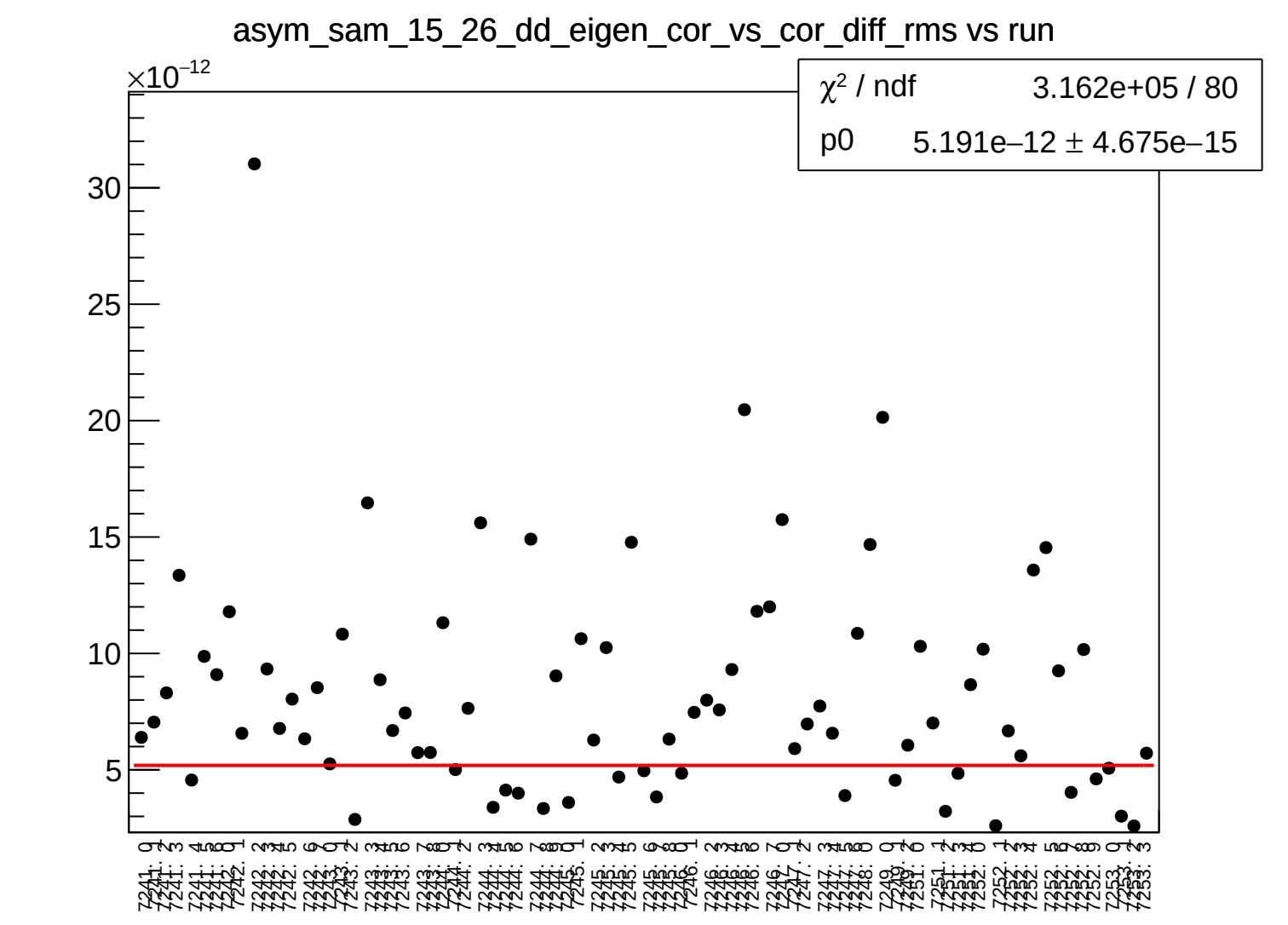

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4774 / 80
p0 23.36 ± 0.0188
30
29
28
27
26
25
24
23
22
21

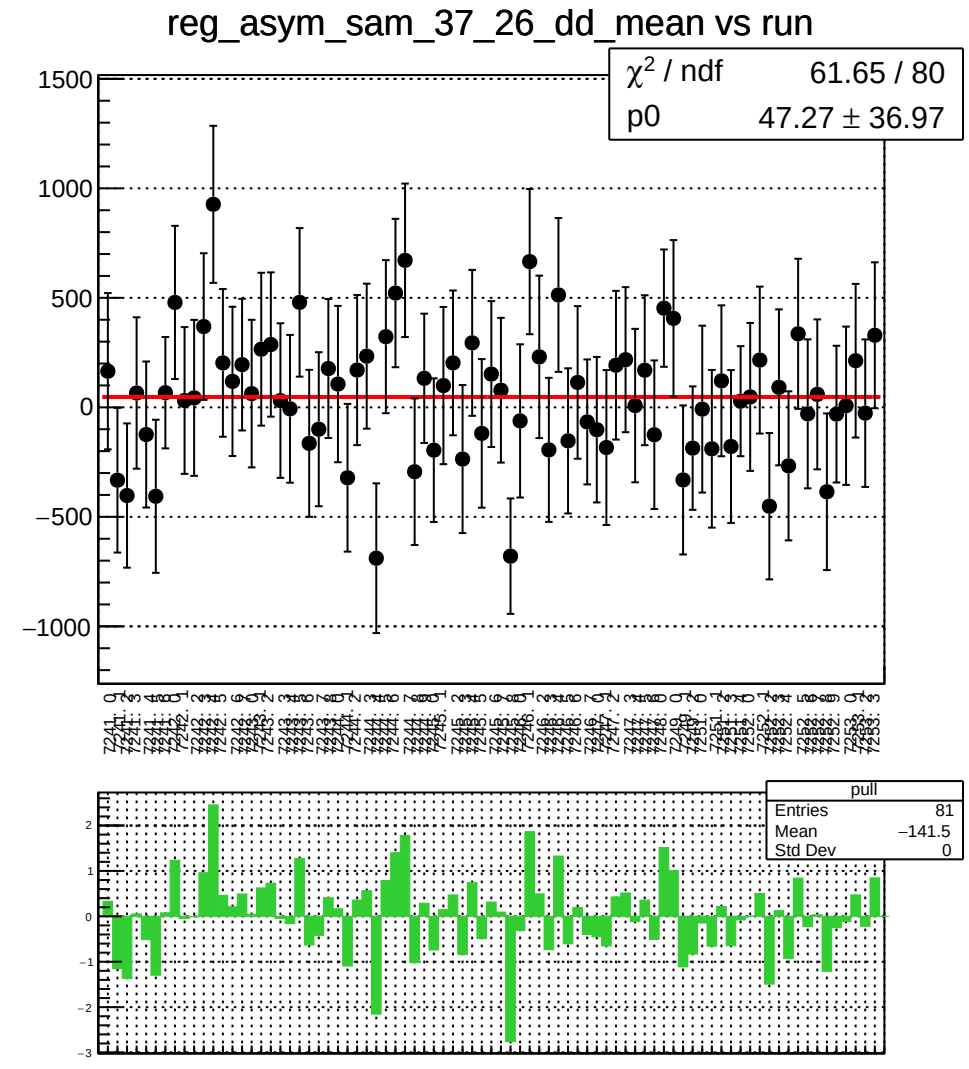

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.5 / 80
p0 −0.05038 ± 0.02658
pull
Entries 81
Mean 47.3
Std Dev 28.65
pull1D
Entries 81
Mean 0.0328
Std Dev 1.033

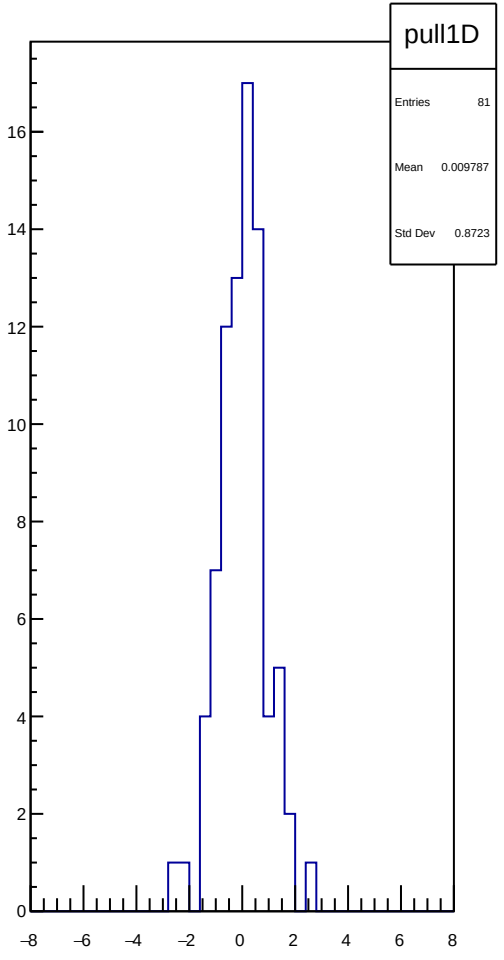

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4774 / 80
p0 23.36 ± 0.0188
30
29
28
27
26
25
24
23
22
21

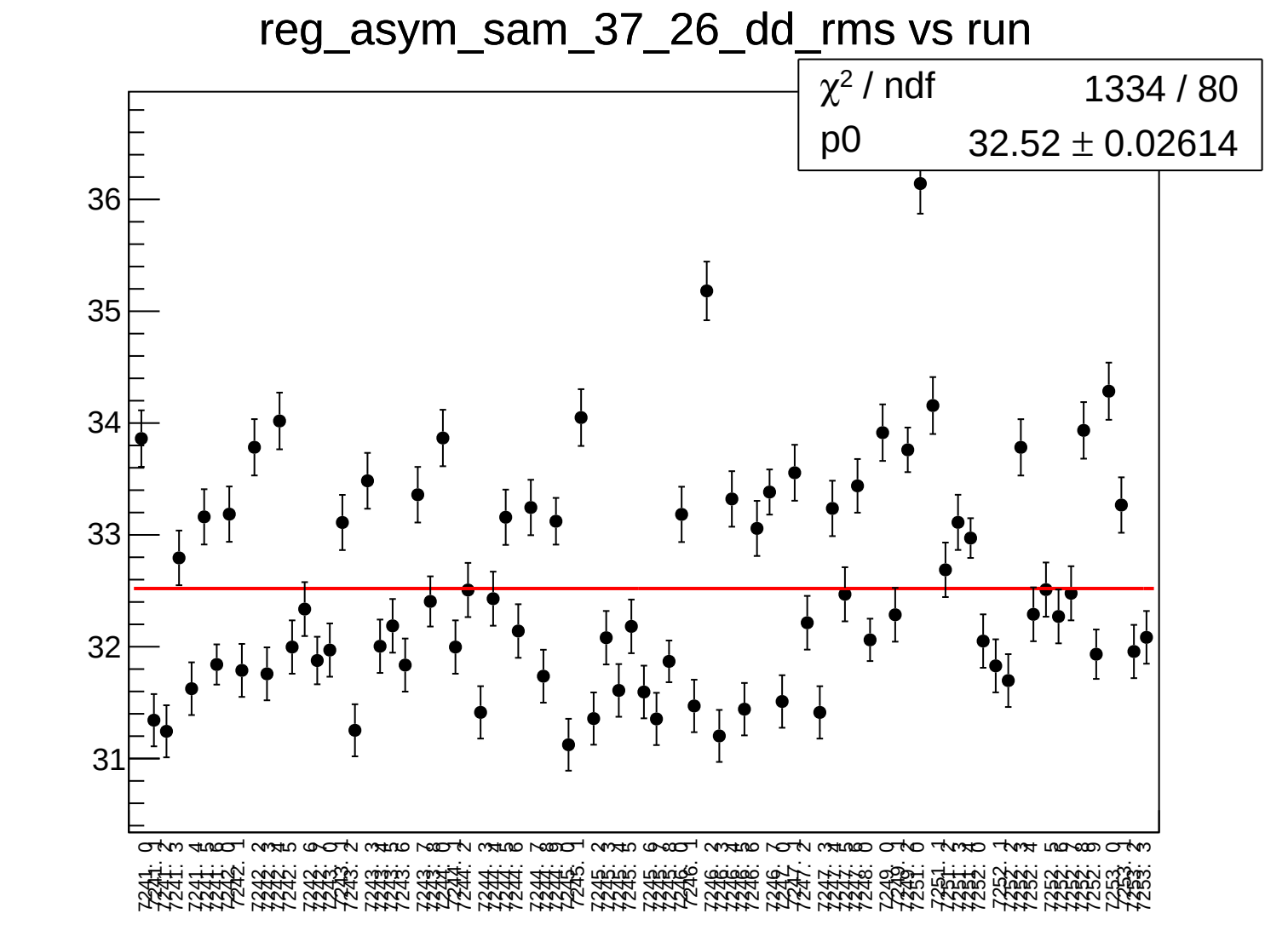

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.71 / 80
p0 −1.446e−14 ± 6.611e−15
0.4
0.2
0
−0.2
−0.4
pull
Entries 81
Mean −10.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

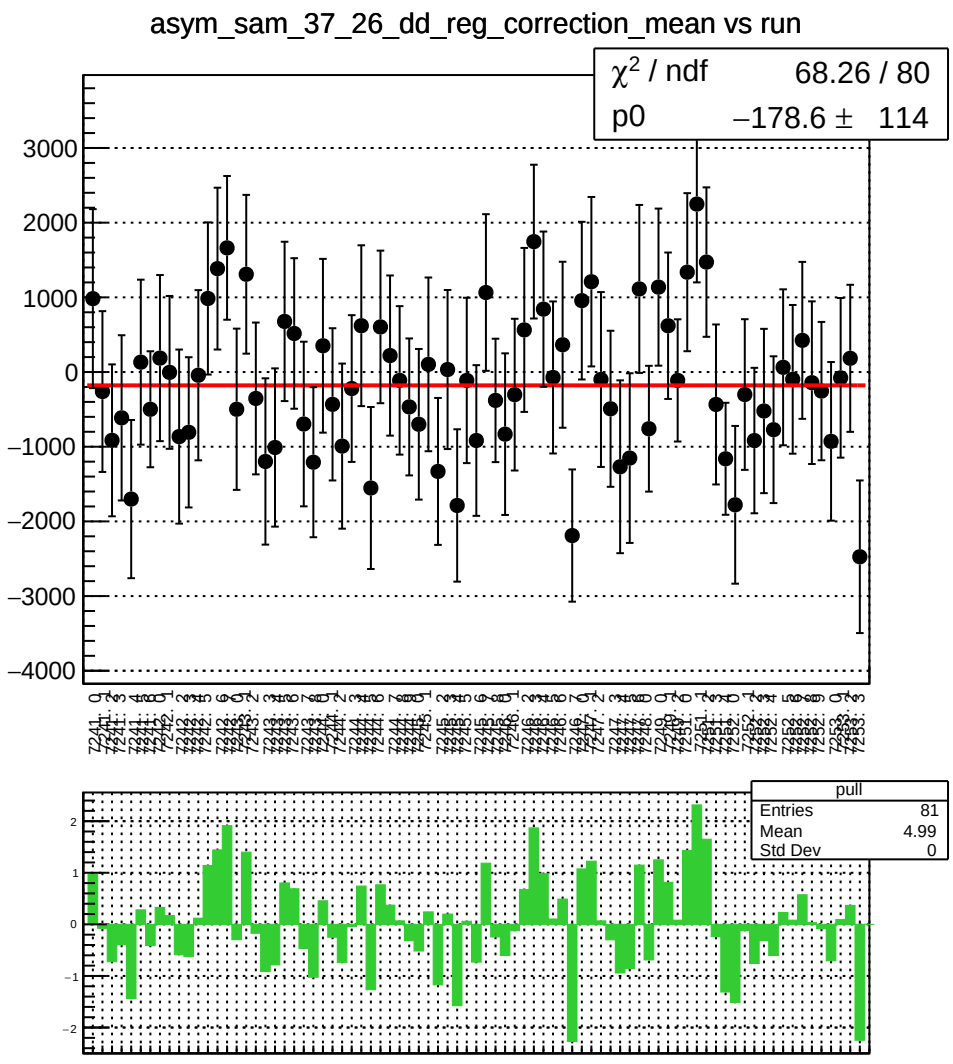

pull1D
Entries 81
Mean 0.1379
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

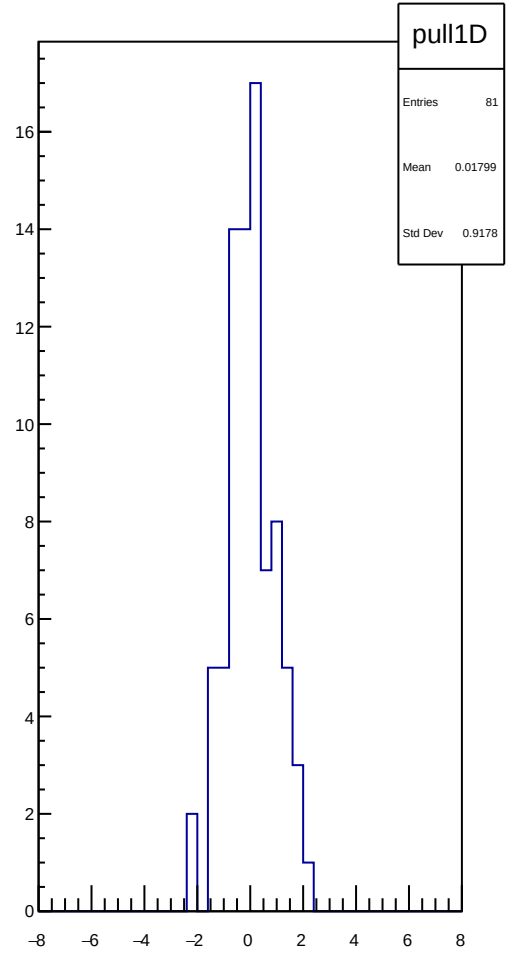

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.162e+05 / 80
p0 5.191e−12 ± 4.675e−15
30
25
20
15
10
5

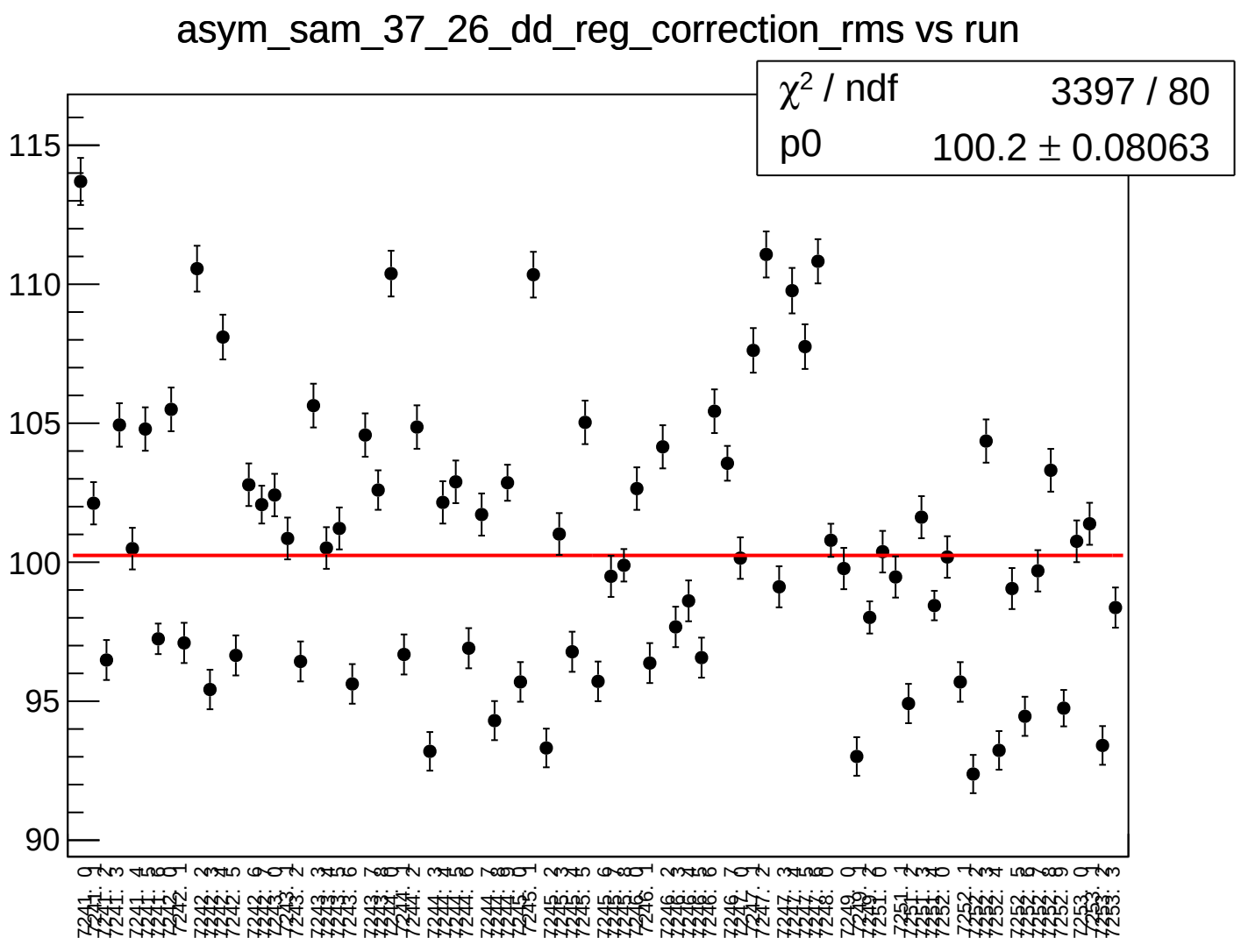

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 61.65 / 80
p0 47.27 ± 36.97
1500
1000
500
0
−500
−1000
pull
Entries 81
Mean −141.5
Std Dev 0
2
1
0
−1
−2
−3

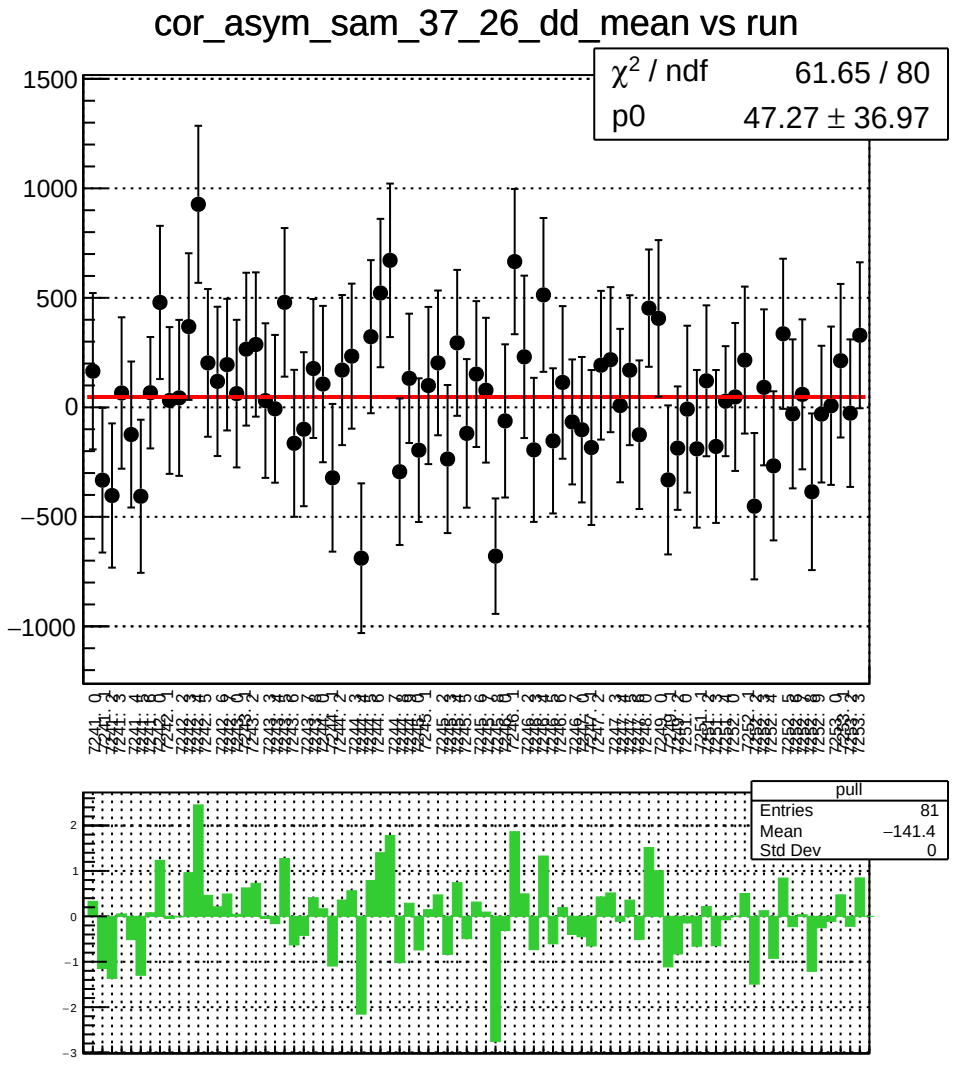

pull1D
Entries 81
Mean 0.009787
Std Dev 0.8723
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

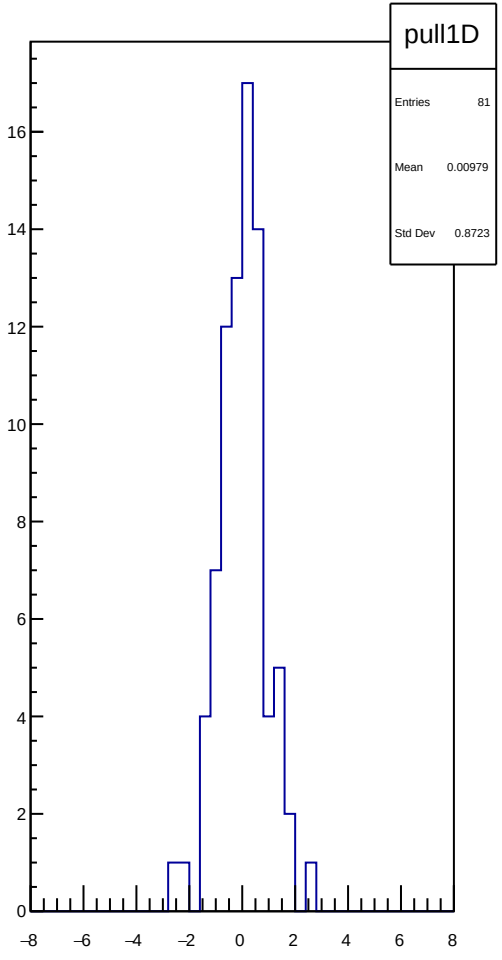

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 1334 / 80
p0 32.52 ± 0.02614
36
35
34
33
32
31

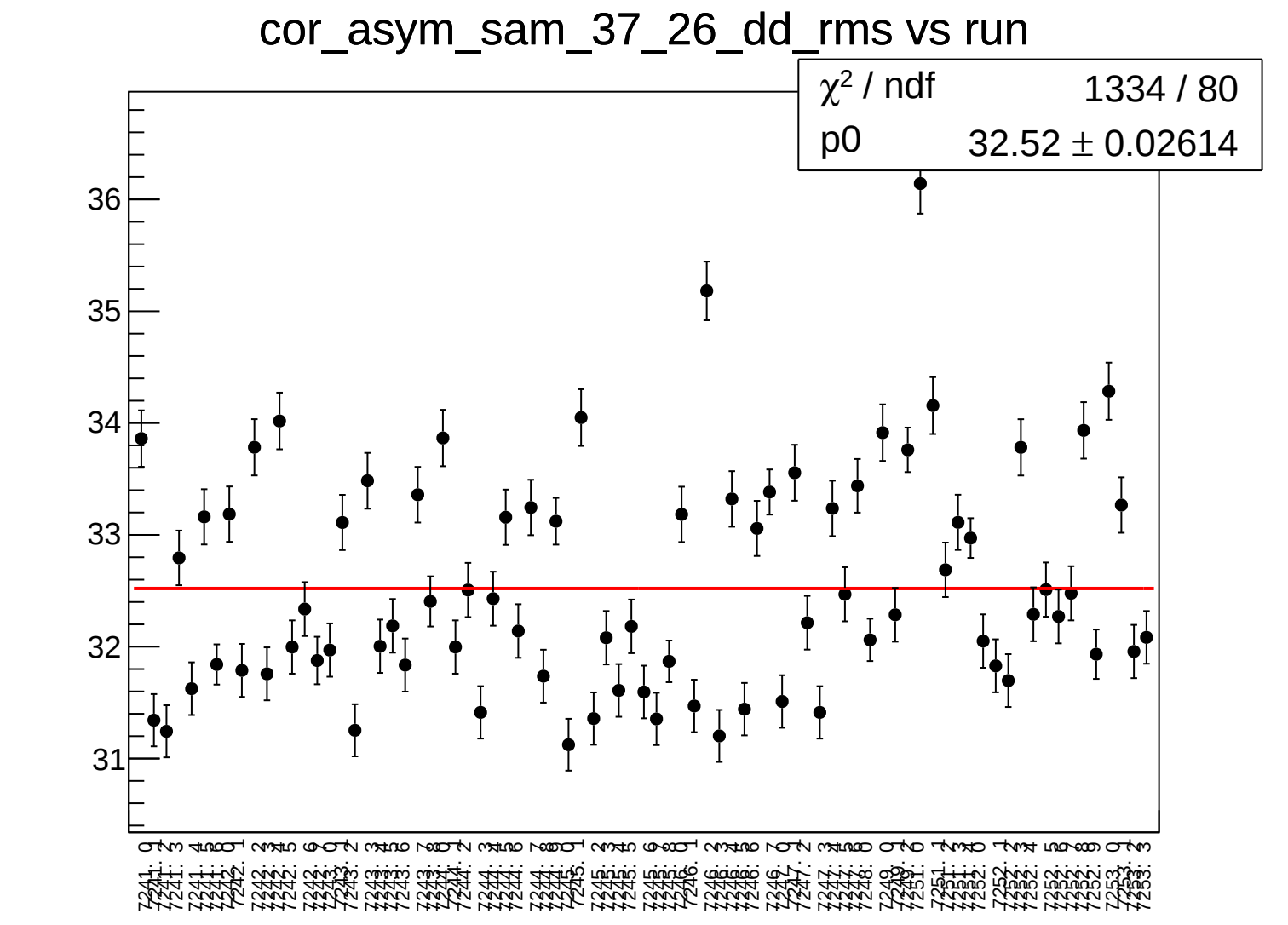

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 68.26 / 80
p0 −178.6 ± 114
pull
Entries 81
Mean 4.99
Std Dev 0

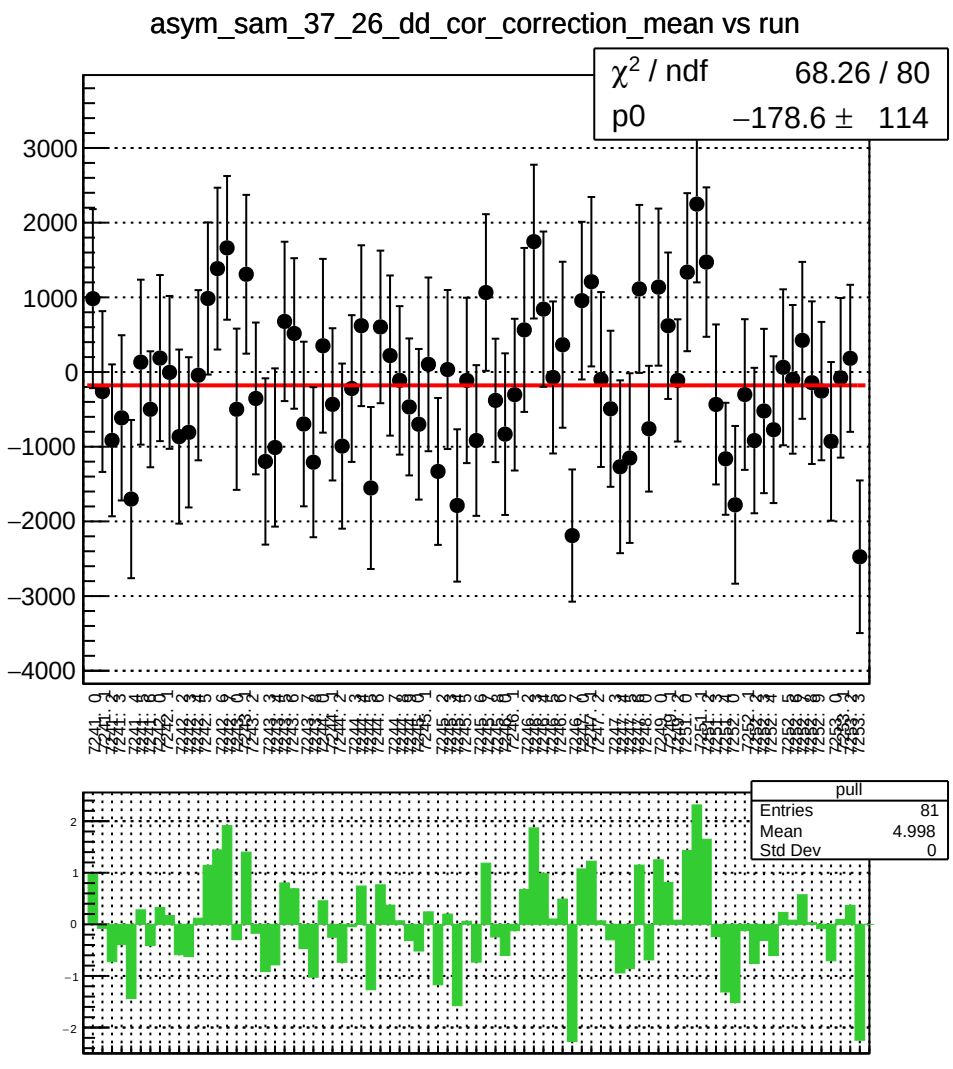

pull1D
Entries 81
Mean 0.01799
Std Dev 0.9178

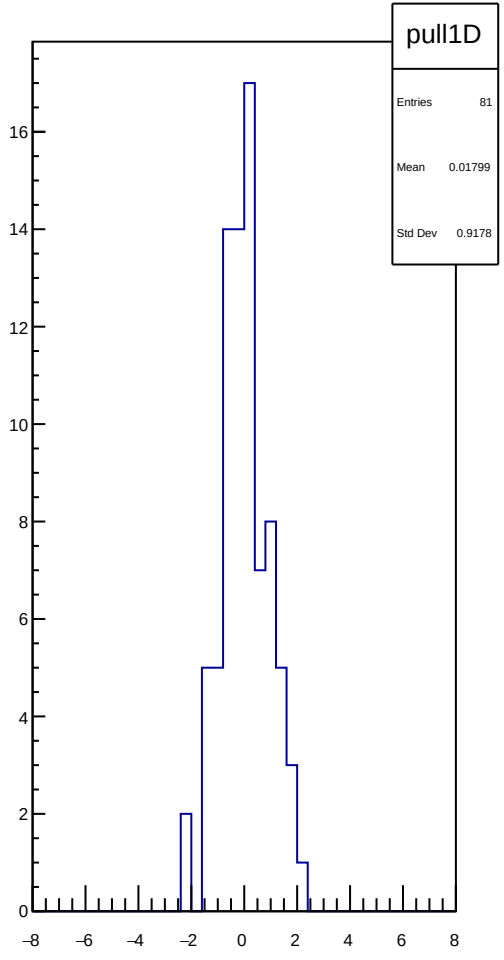

asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 3397 / 80
p0 100.2 ± 0.08063
115
110
105
100
95
90

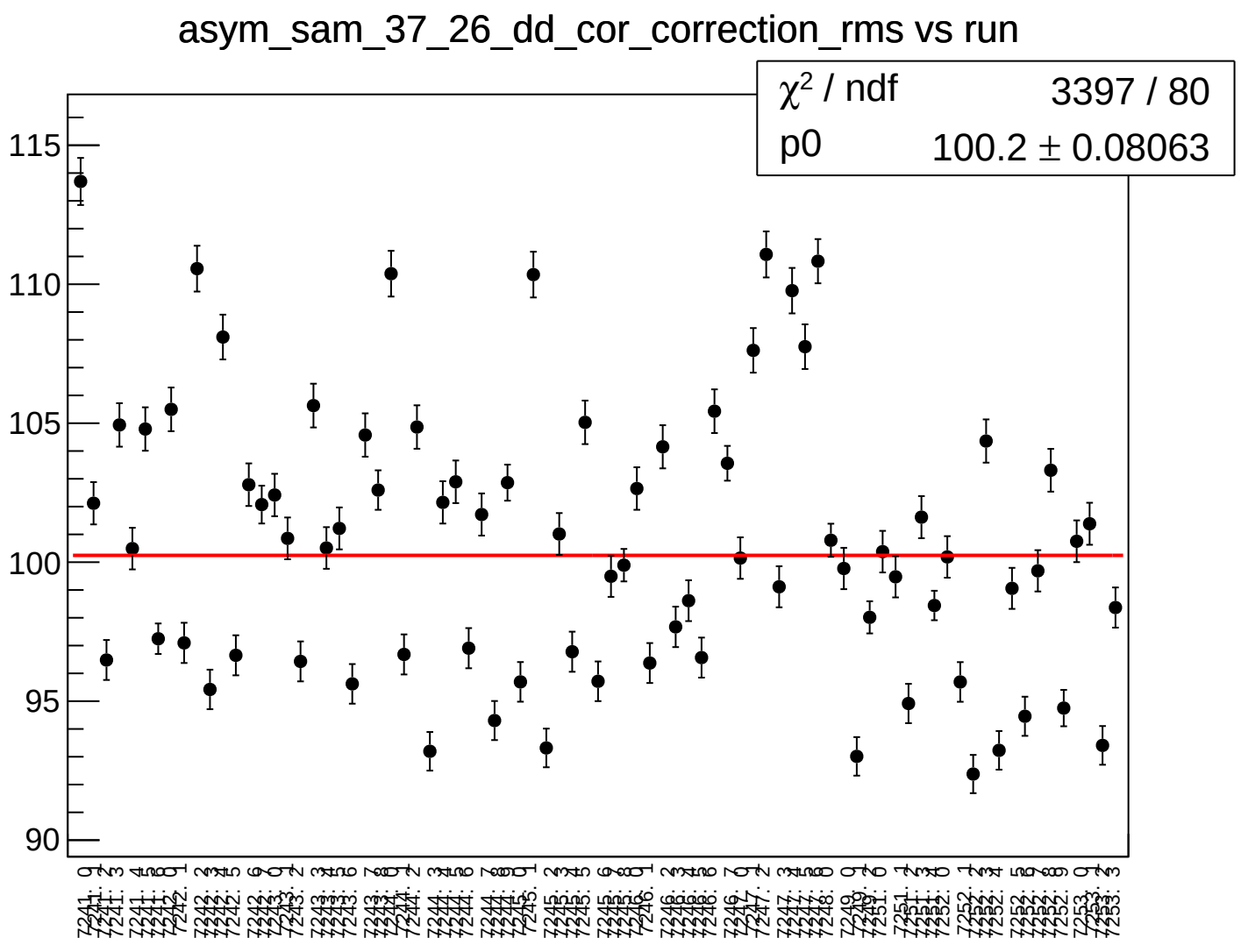

cor_asym_sam_37_26_dd_mean vs run
χ^2 / ndf 61.65 / 80
p0 47.27 ± 36.97
pull
Entries 81
Mean −141.4
Std Dev 0

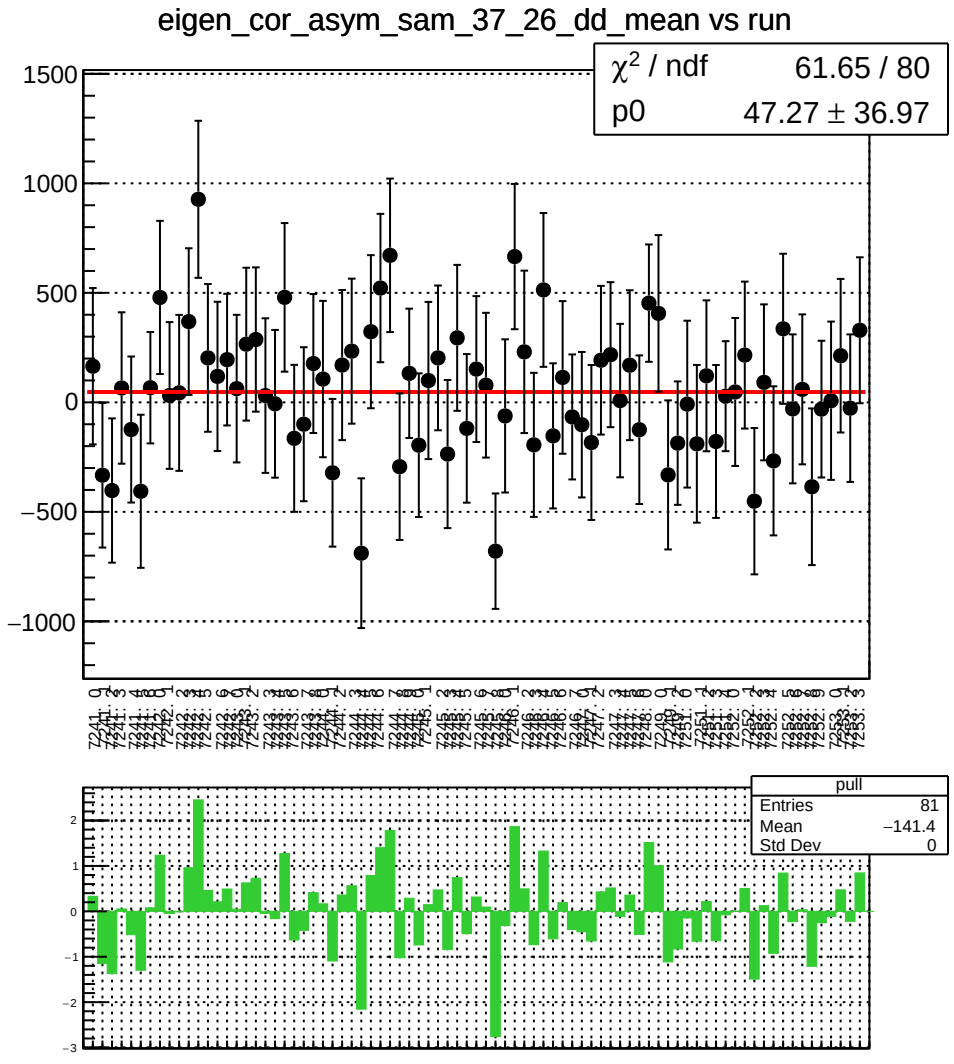

pull1D
Entries 81
Mean 0.00979
Std Dev 0.8723

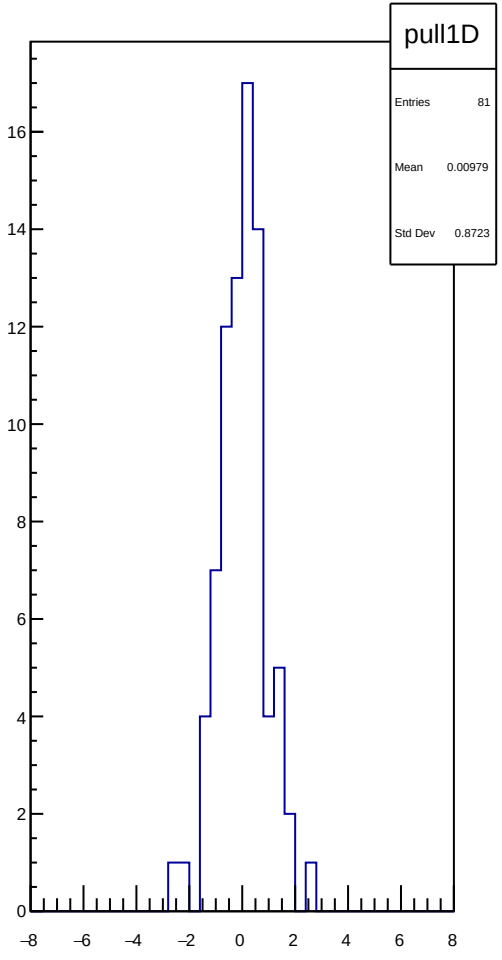

cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 1334 / 80
p0 32.52 ± 0.02614
36
35
34
33
32
31

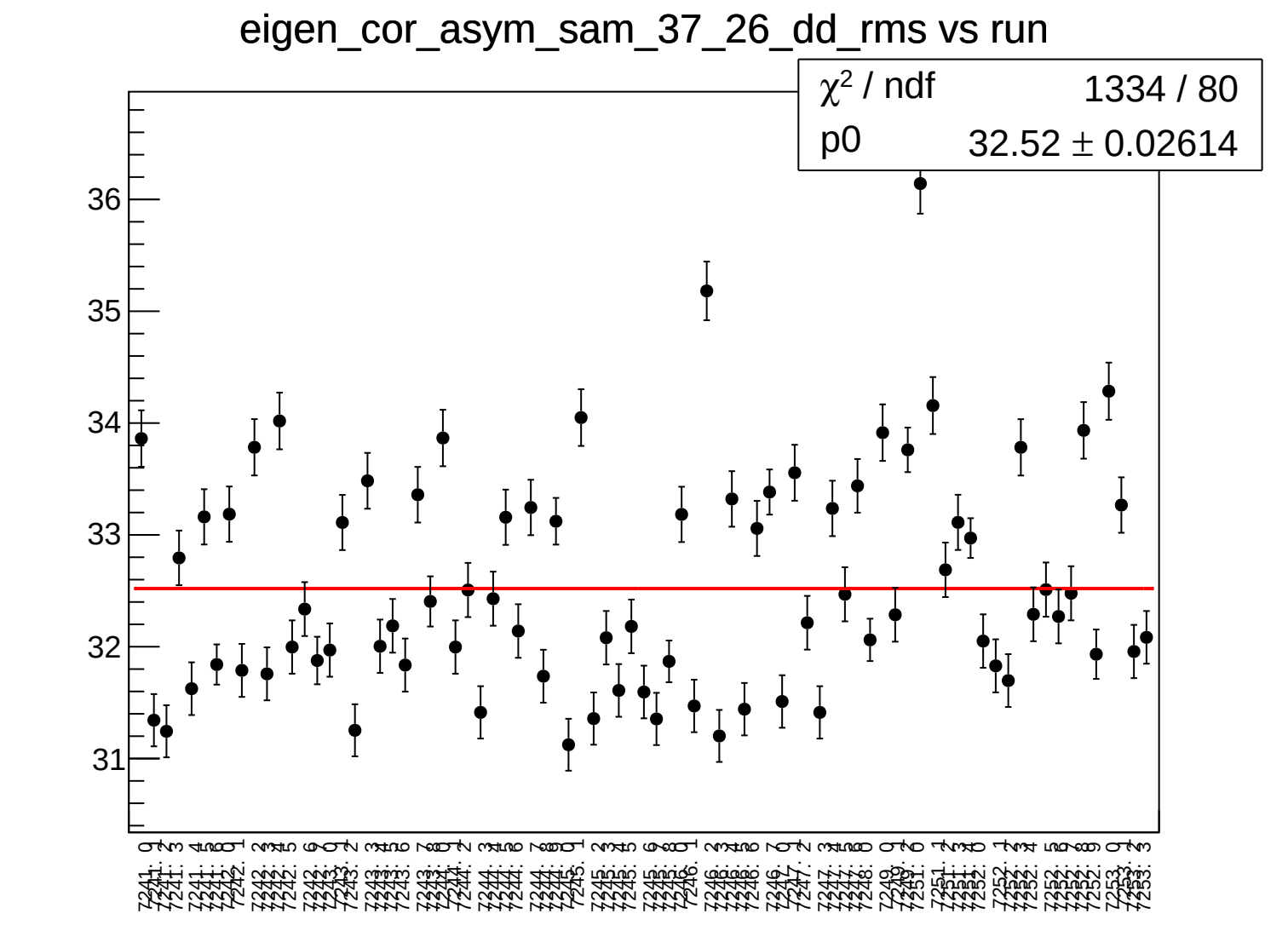

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 68.26 / 80
p0 −178.6 ± 114
pull
Entries 81
Mean 4.998
Std Dev 0

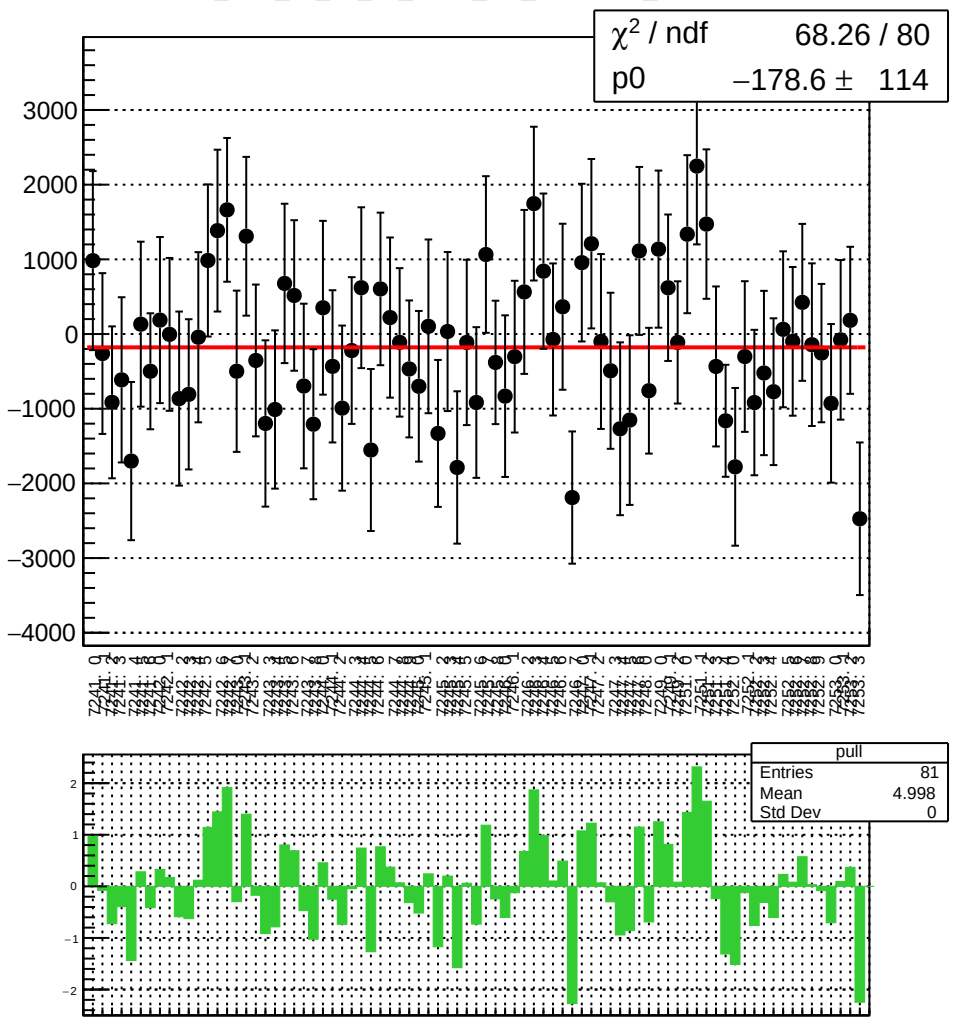

pull1D
Entries 81
Mean 0.01799
Std Dev 0.9178

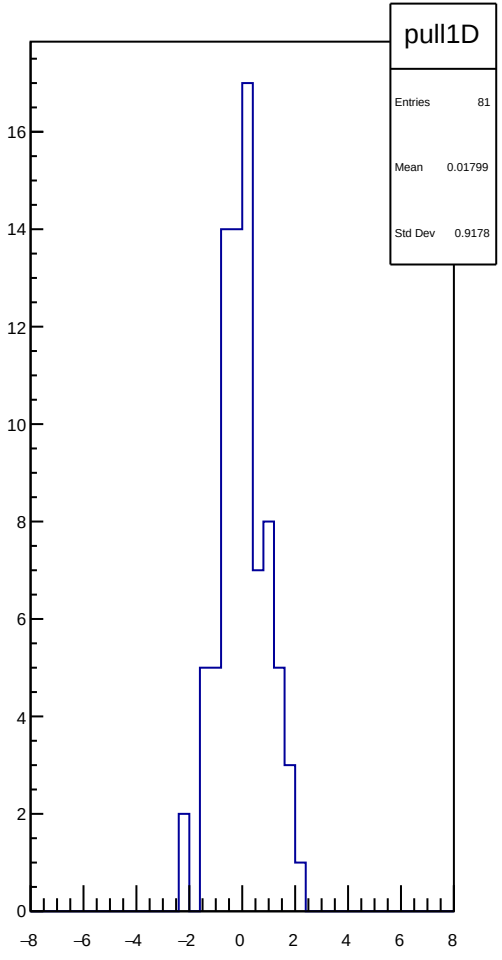

asym_sam_37_26_dd_cor_correction_rms vs run
χ² / ndf 3397 / 80
p0 100.2 ± 0.08063
115
110
105
100
95
90

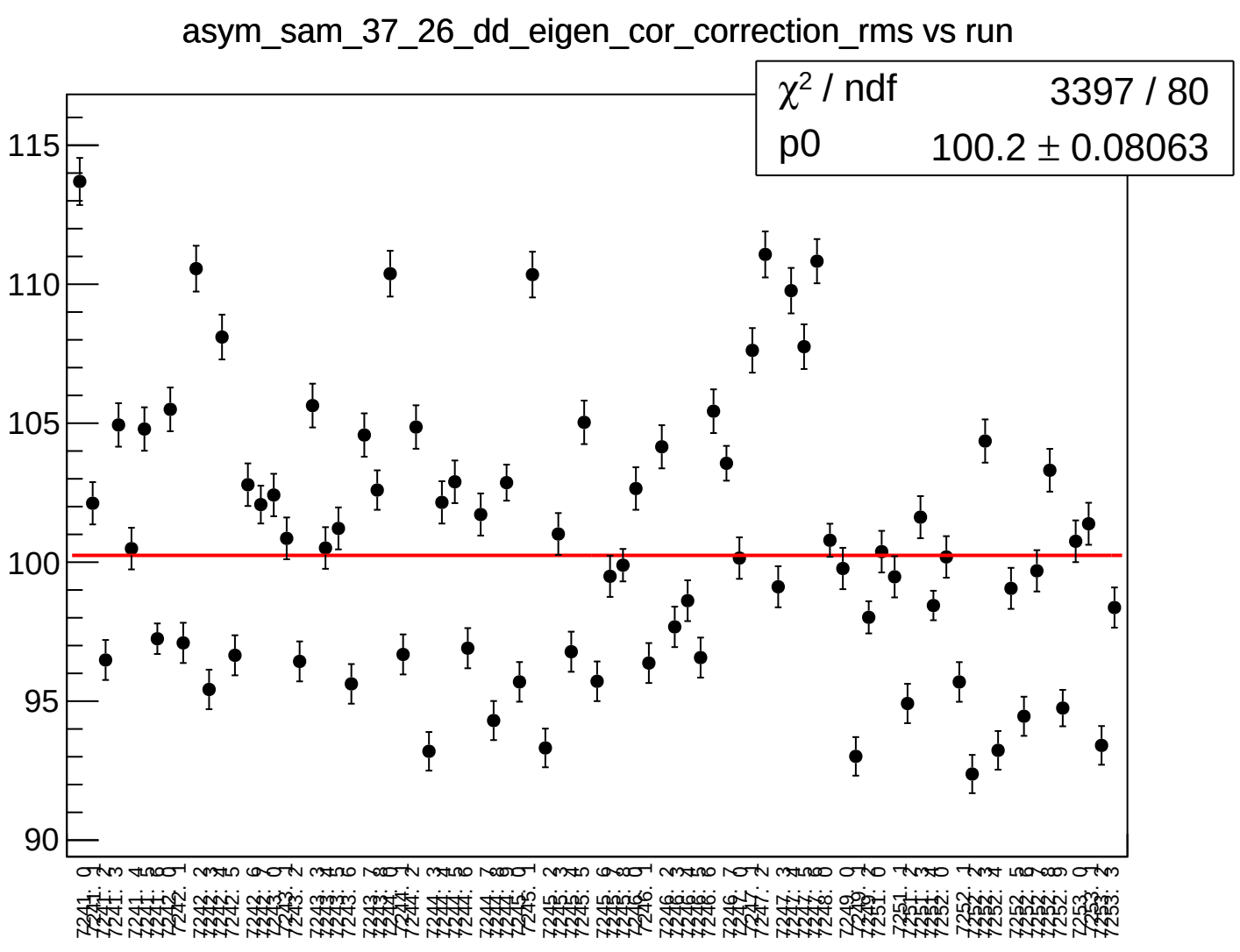

eigen_cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 61.65 / 80
p0 47.27 ± 36.97
pull
Entries 81
Mean −141.4
Std Dev 0

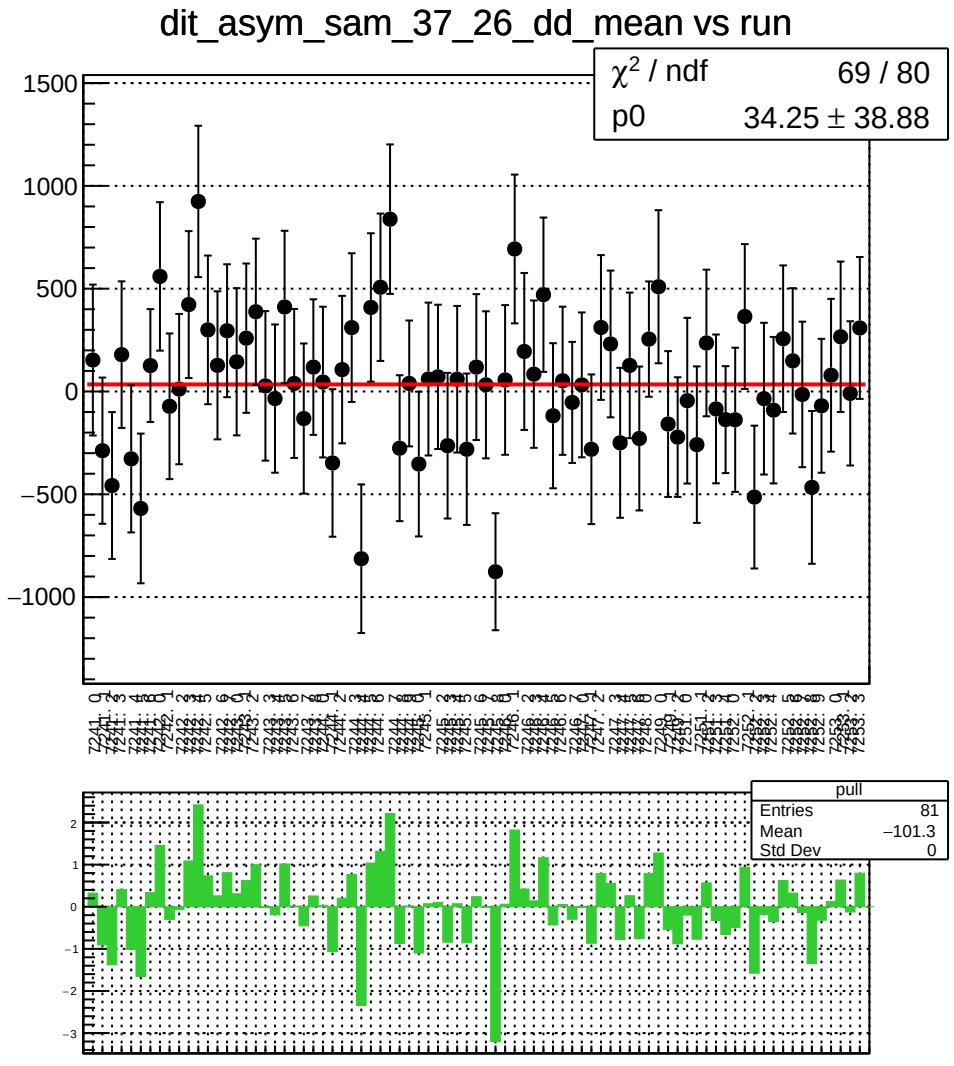

pull1D
Entries 81
Mean 0.00979
Std Dev 0.8723

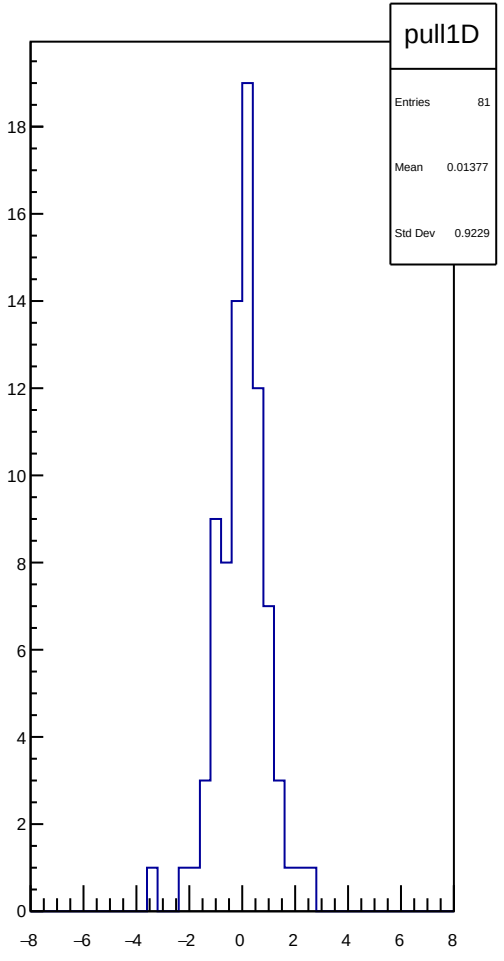

eigen_cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 1334 / 80
p0 32.52 ± 0.02614
36
35
34
33
32
31

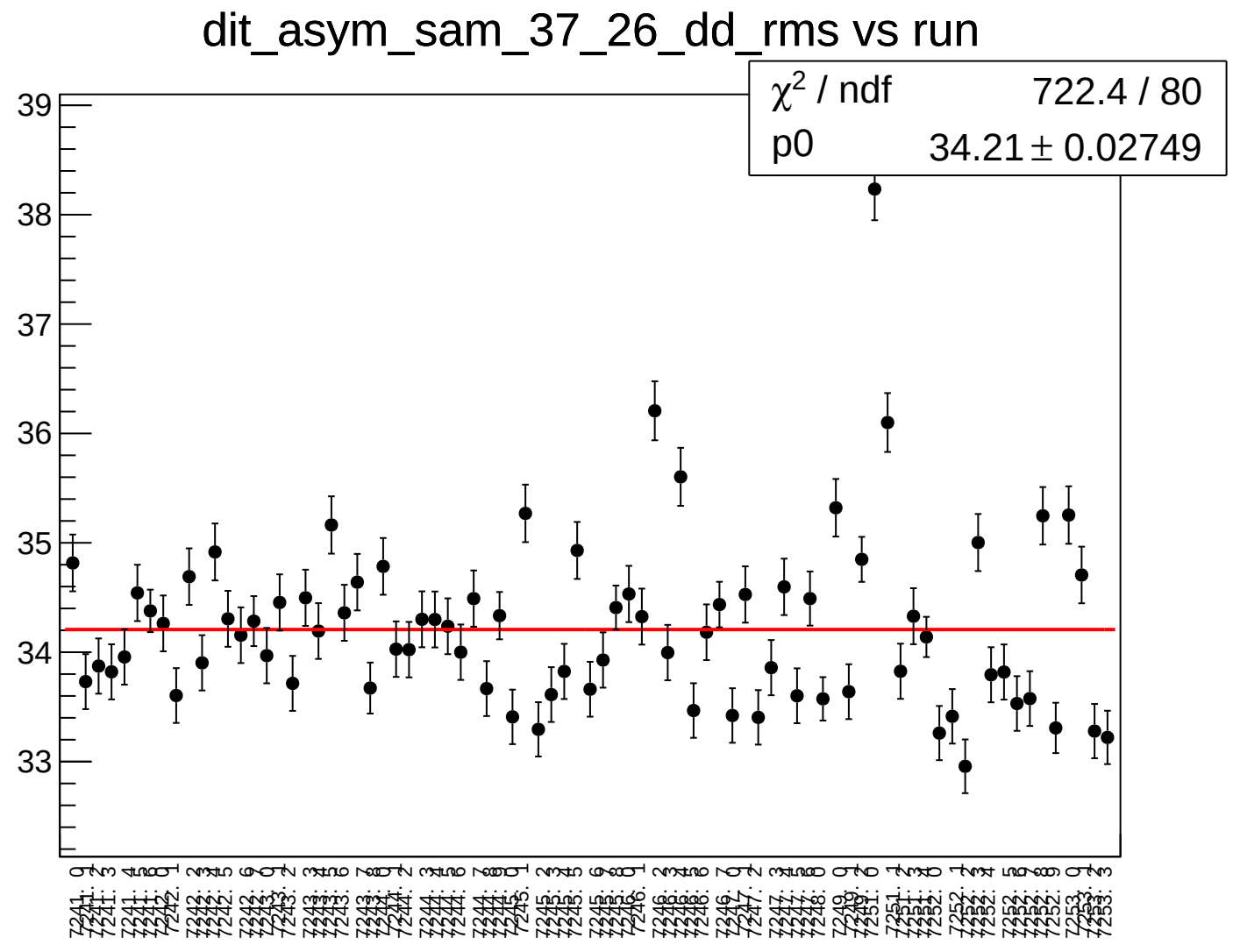

asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 68.26 / 80
p0 −178.6 ± 114
pull
Entries 81
Mean 4.998
Std Dev 0

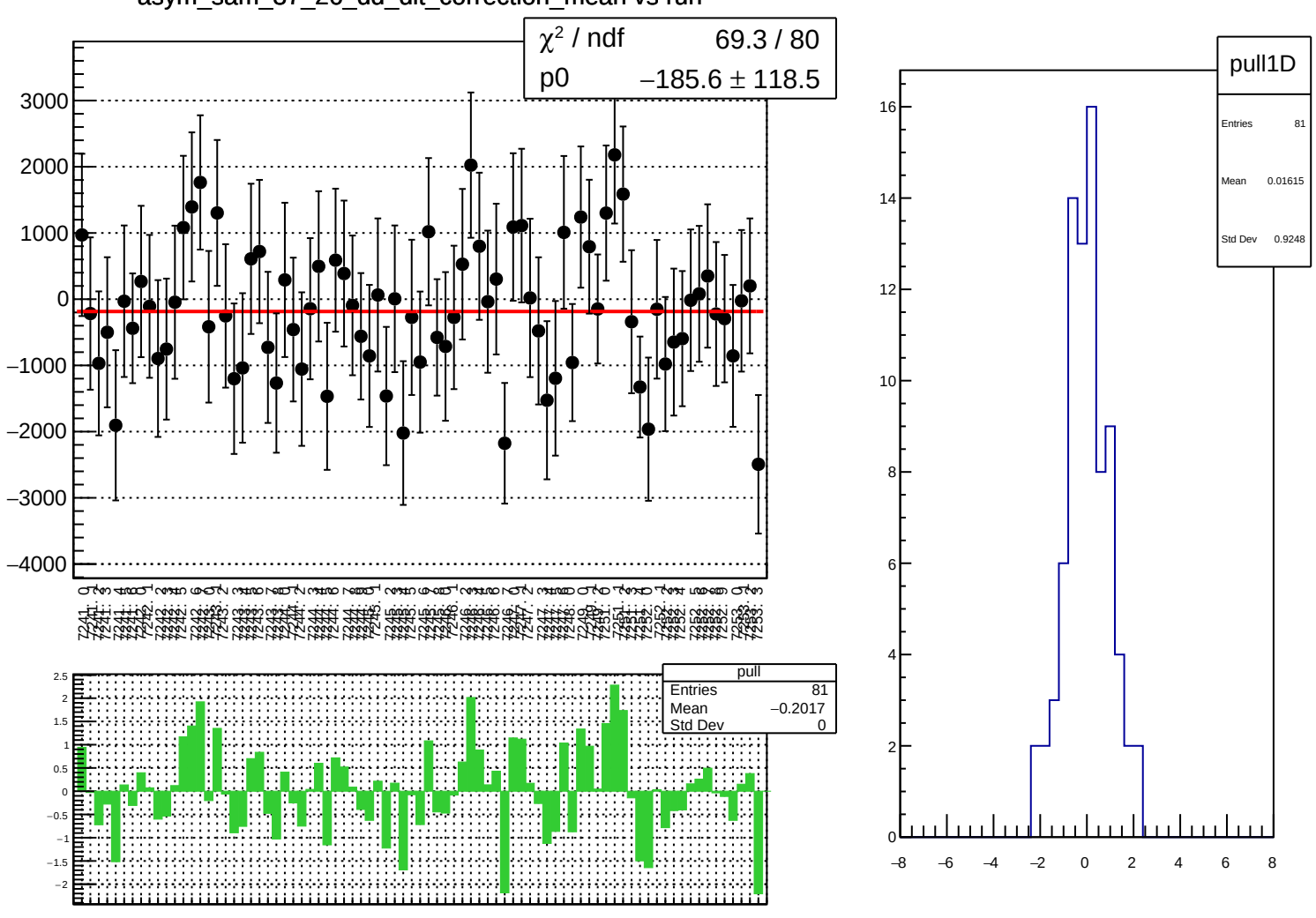

pull1D
Entries 81
Mean 0.01799
Std Dev 0.9178

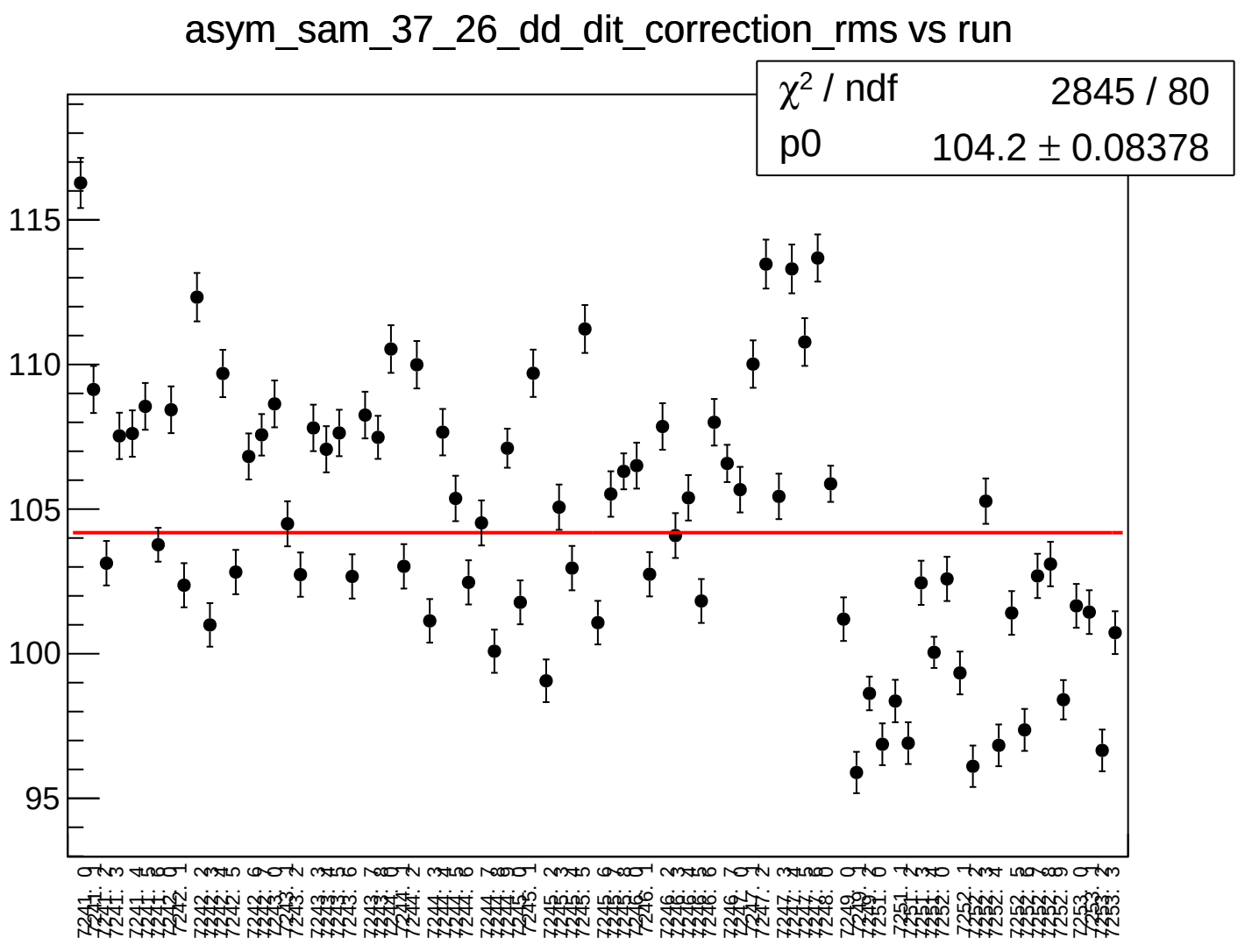

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 3397 / 80
p0 100.2 ± 0.08063
115
110
105
100
95
90

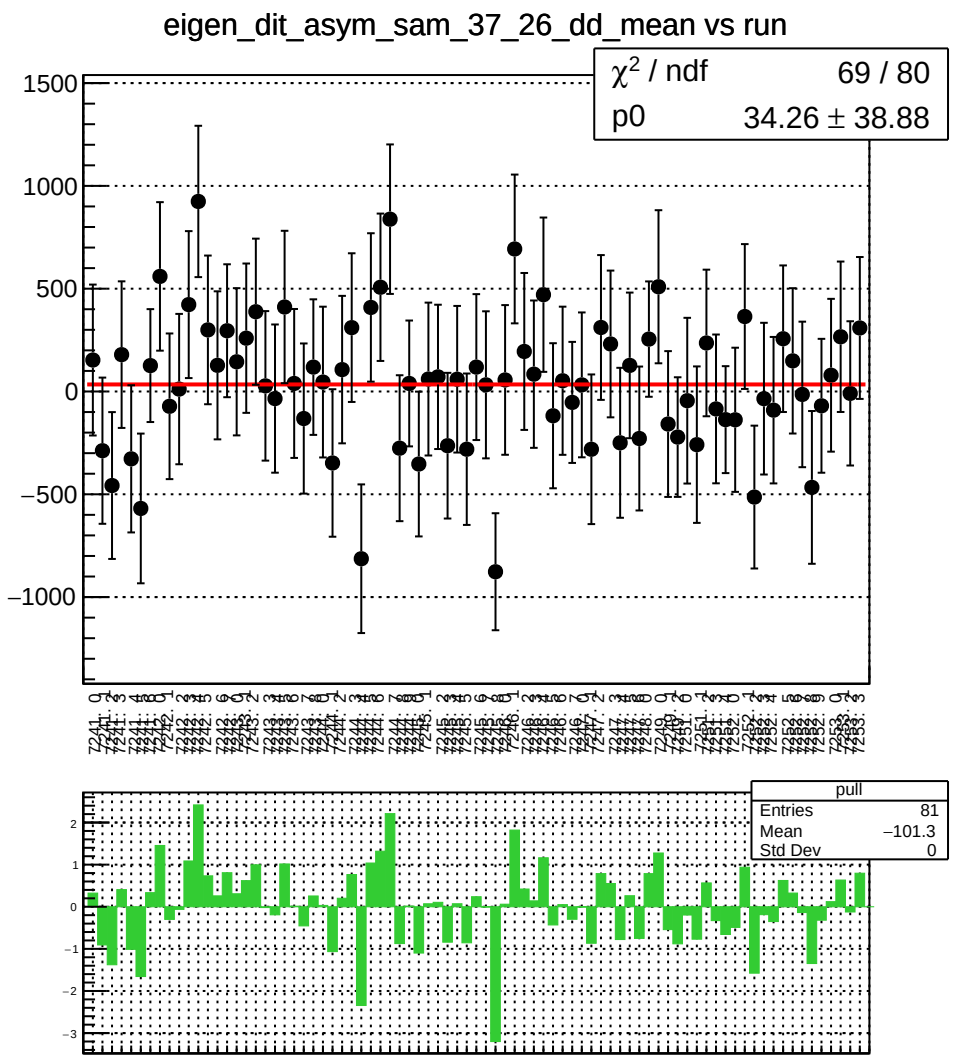

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 69 / 80
p0 34.25 ± 38.88
pull
Entries 81
Mean −101.3
Std Dev 0

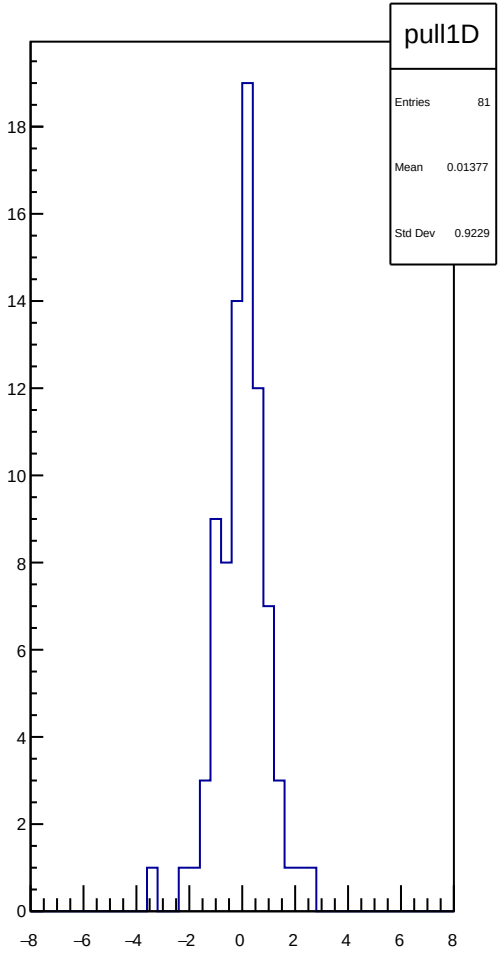

pull1D
Entries 81
Mean 0.01377
Std Dev 0.9229

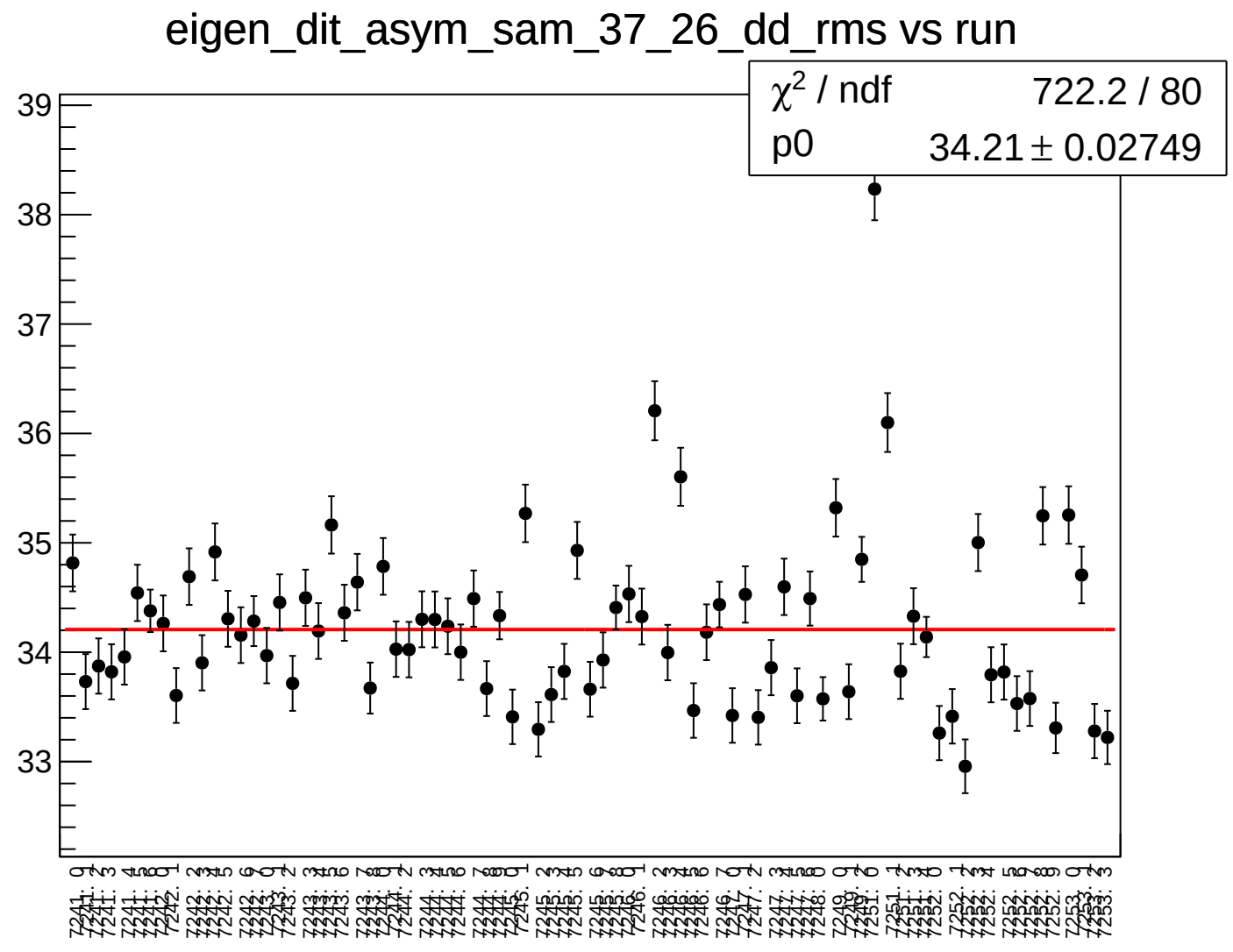

dit_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 722.4 / 80
p0 34.21 ± 0.02749
39
38
37
36
35
34
33

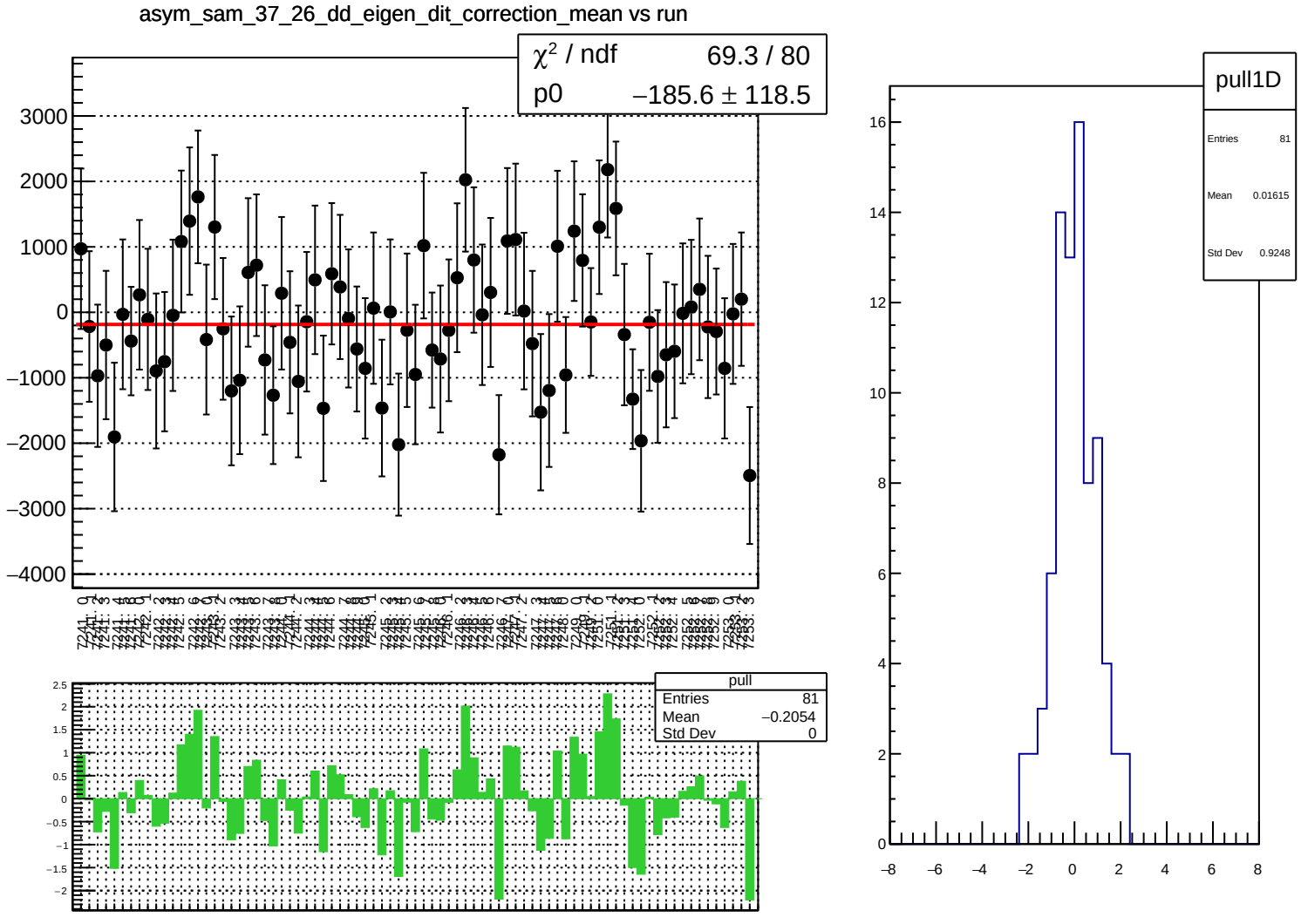

asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 69.3 / 80
p0 −185.6 ± 118.5
pull
Entries 81
Mean −0.2017
Std Dev 0
pull1D
Entries 81
Mean 0.01615
Std Dev 0.9248

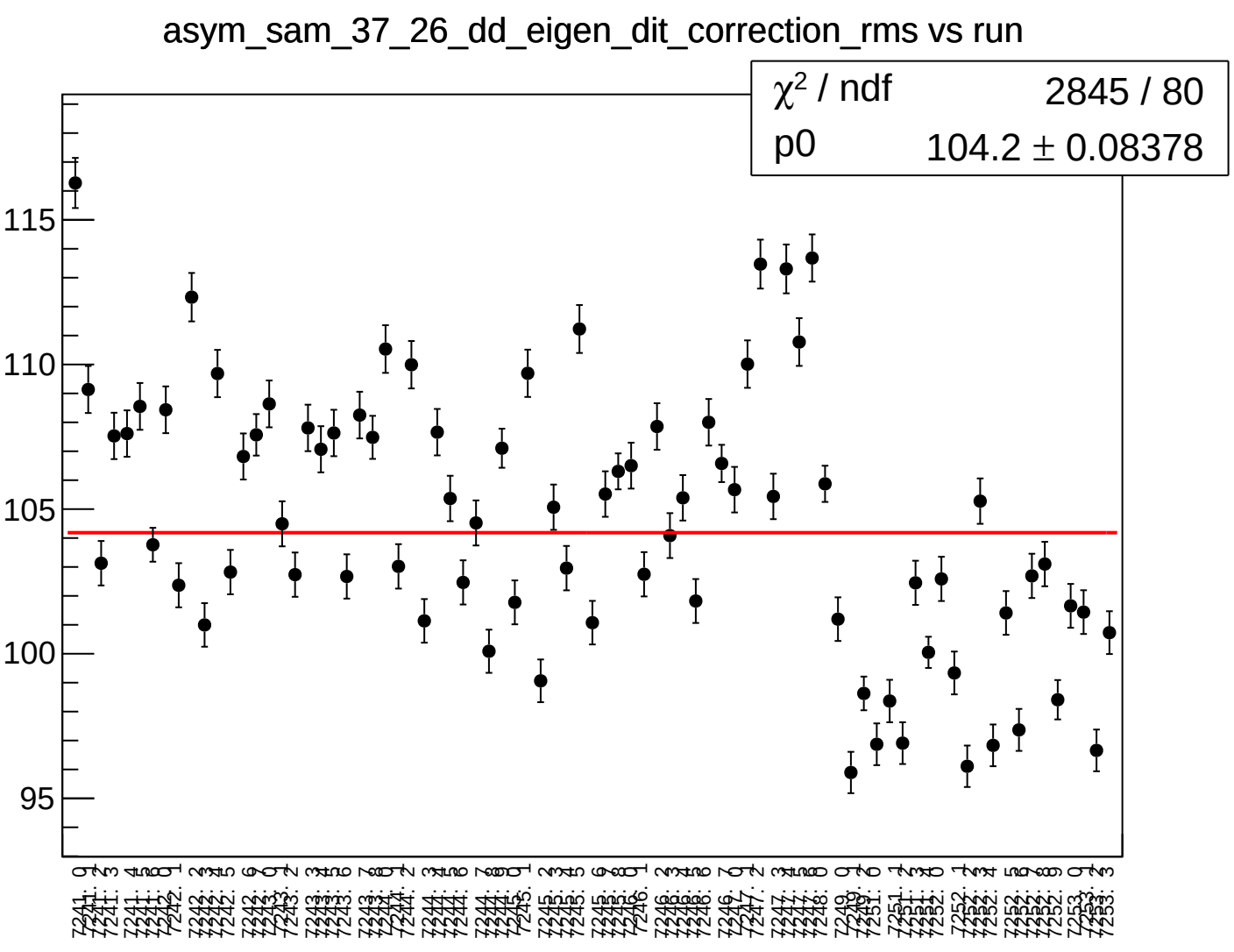

asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 2845 / 80
p0 104.2 ± 0.08378
115
110
105
100
95

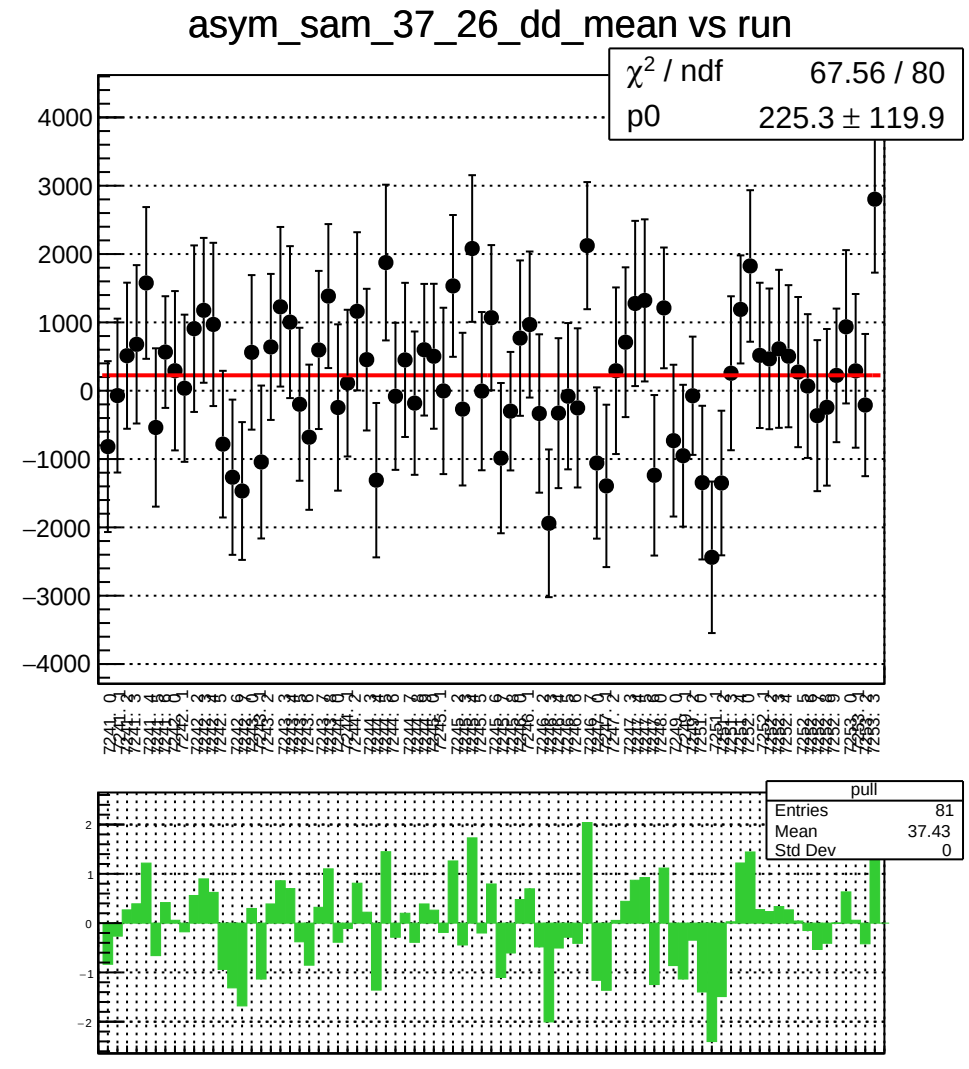

eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 69 / 80
p0 34.26 ± 38.88
pull
Entries 81
Mean −101.3
Std Dev 0

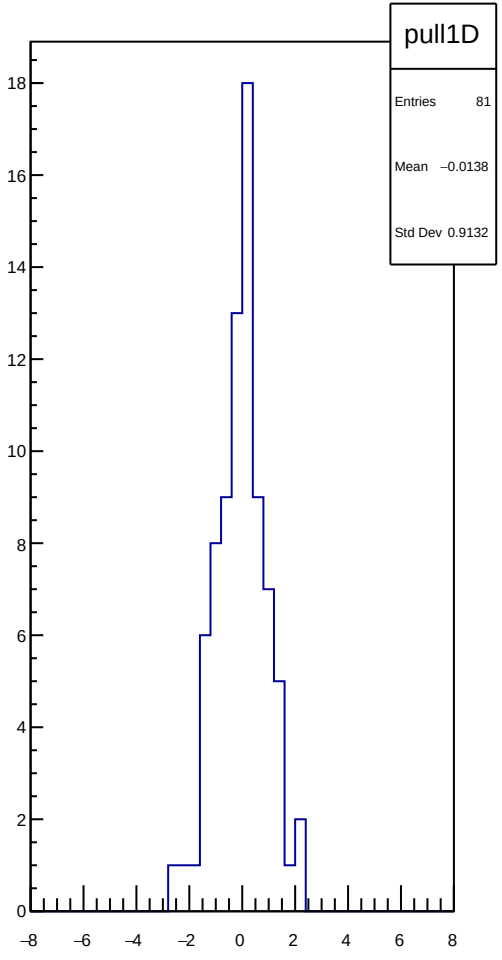

pull1D
Entries 81
Mean 0.01377
Std Dev 0.9229

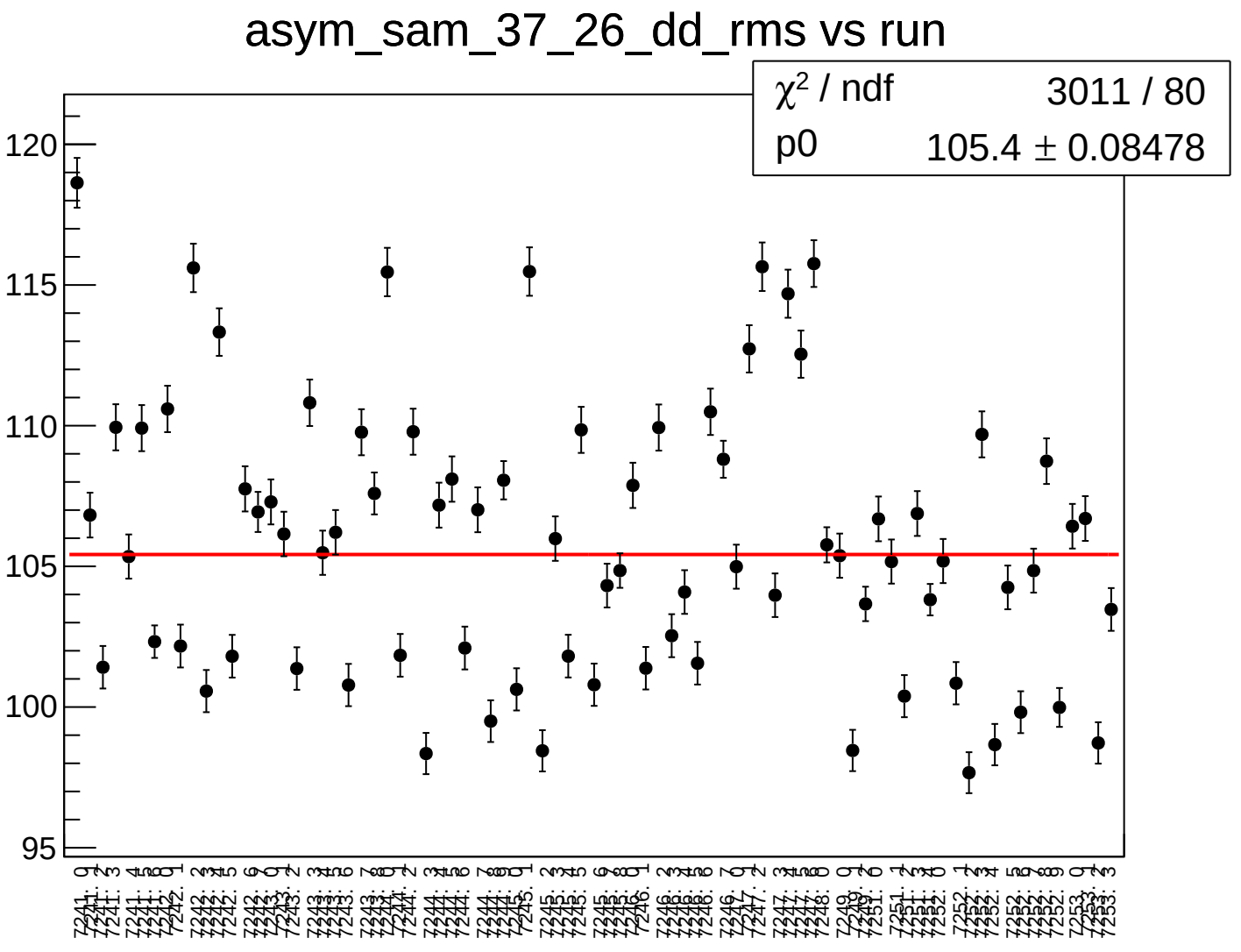

eigen_dit_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 722.2 / 80
p0 34.21 ± 0.02749
39
38
37
36
35
34
33

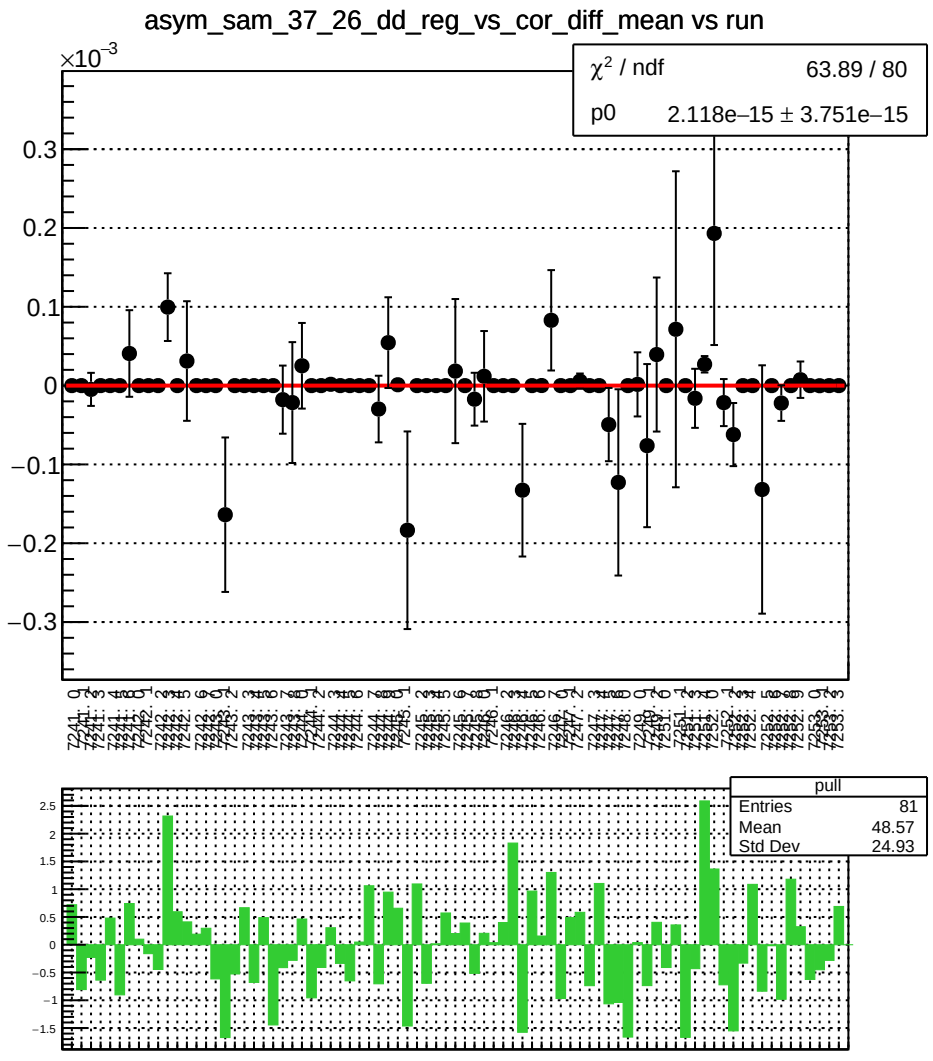

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 69.3 / 80
p0 −185.6 ± 118.5
pull
Entries 81
Mean −0.2054
Std Dev 0
pull1D
Entries 81
Mean 0.01615
Std Dev 0.9248

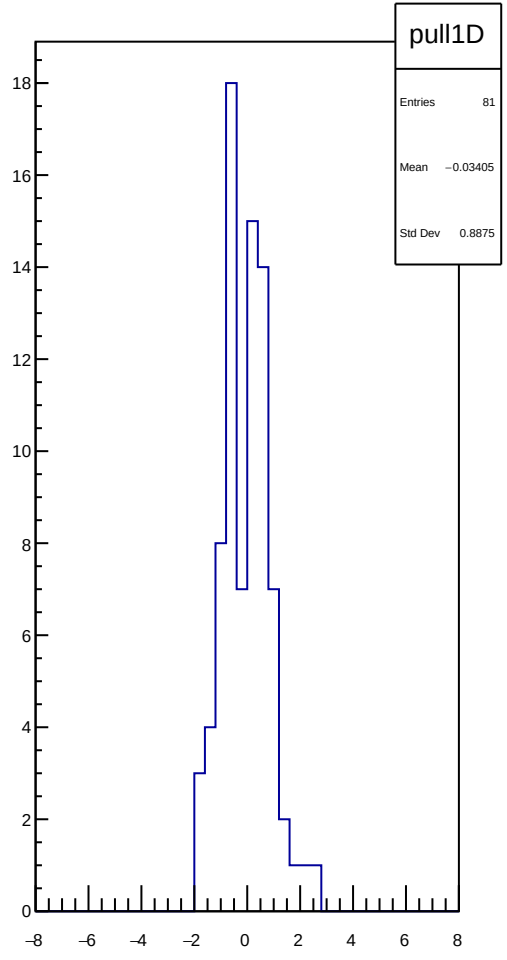

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 2845 / 80
p0 104.2 ± 0.08378
115
110
105
100
95

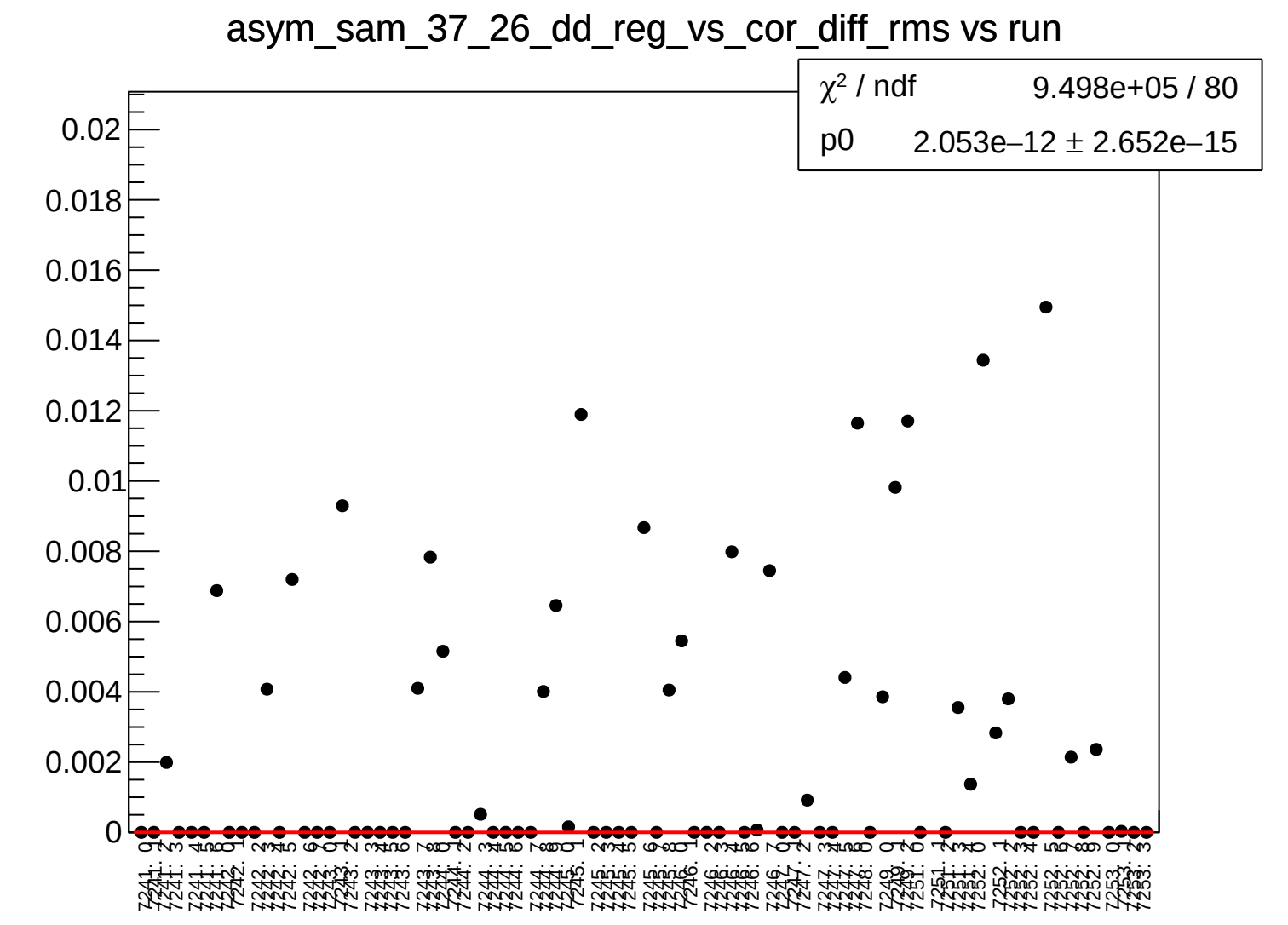

asym_sam_37_26_dd_mean vs run
χ² / ndf 67.56 / 80
p0 225.3 ± 119.9
pull
Entries 81
Mean 37.43
Std Dev 0

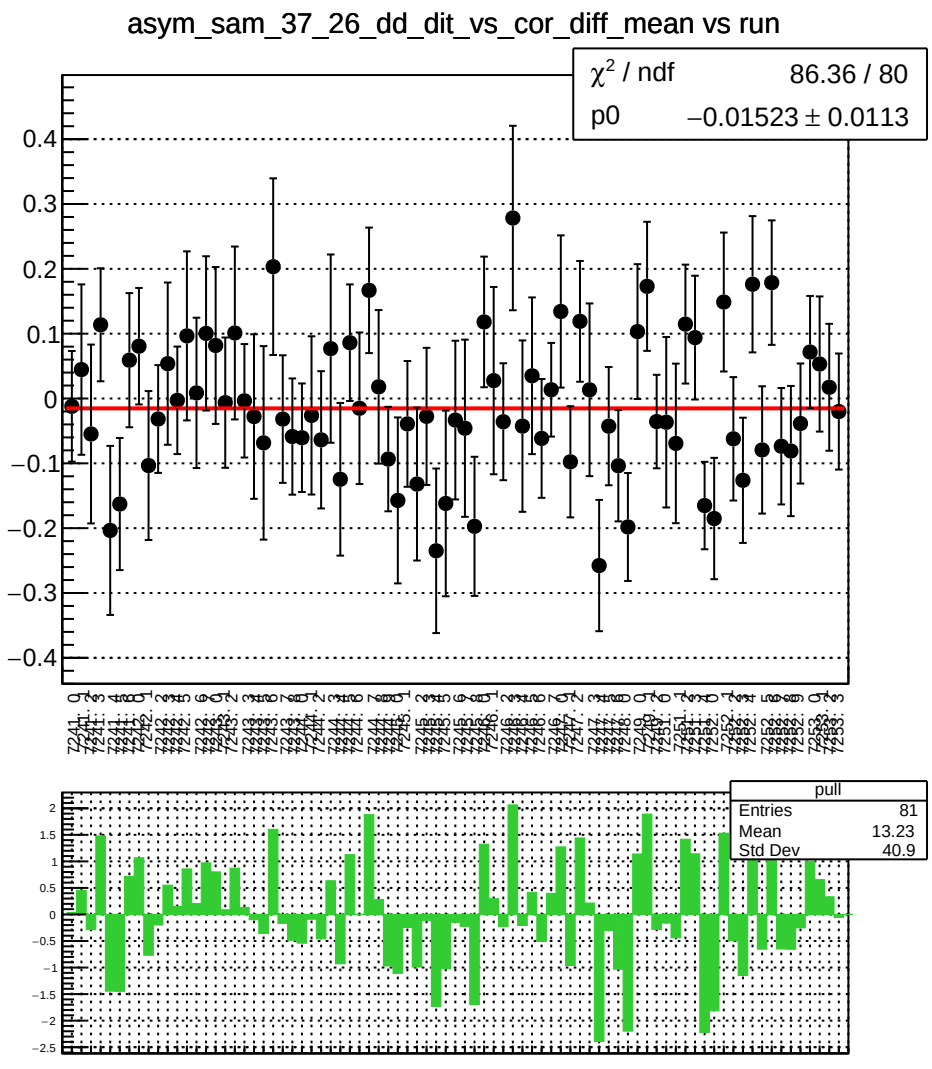

pull1D
Entries 81
Mean −0.0138
Std Dev 0.9132

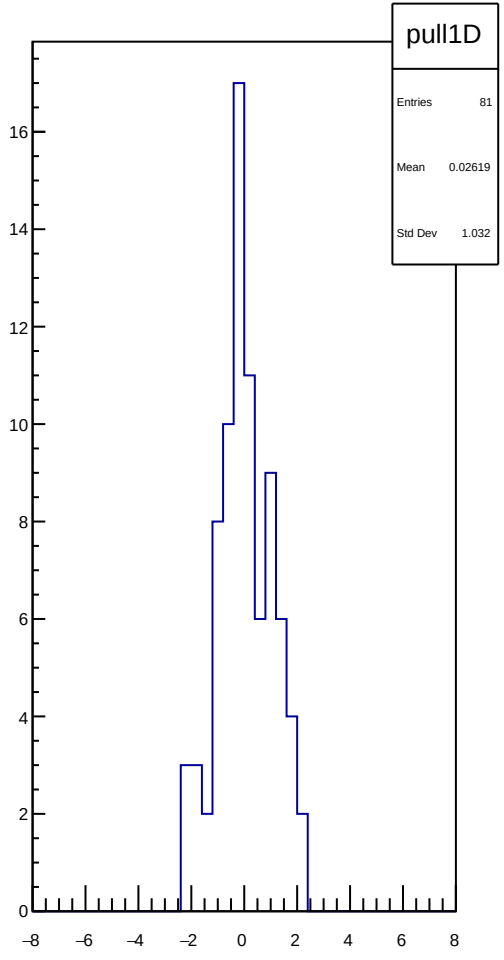

asym_sam_37_26_dd_rms vs run
χ^2 / ndf 3011 / 80
p0 105.4 ± 0.08478
120
115
110
105
100
95

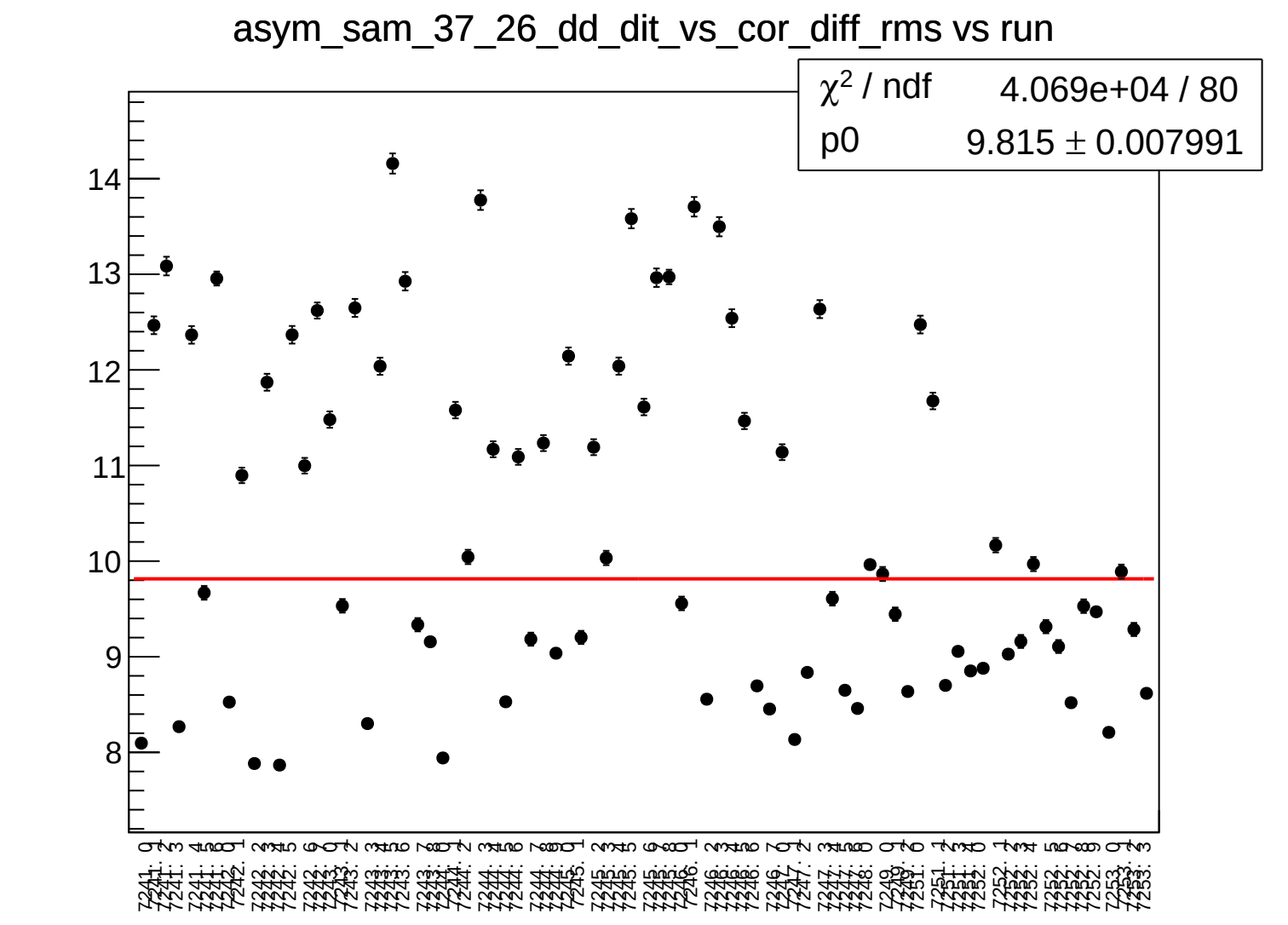

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 63.89 / 80
p0 2.118e−15 ± 3.751e−15
pull
Entries 81
Mean 48.57
Std Dev 24.93

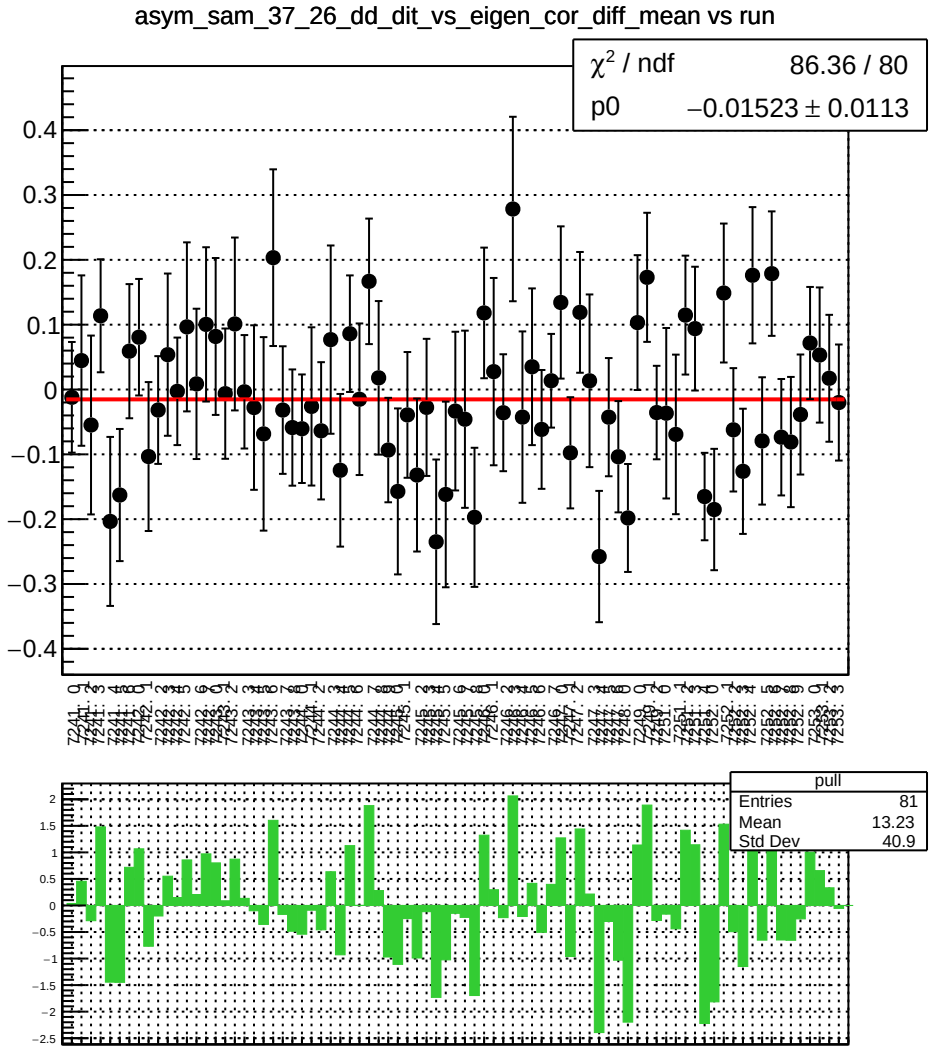

pull1D
Entries 81
Mean −0.03405
Std Dev 0.8875

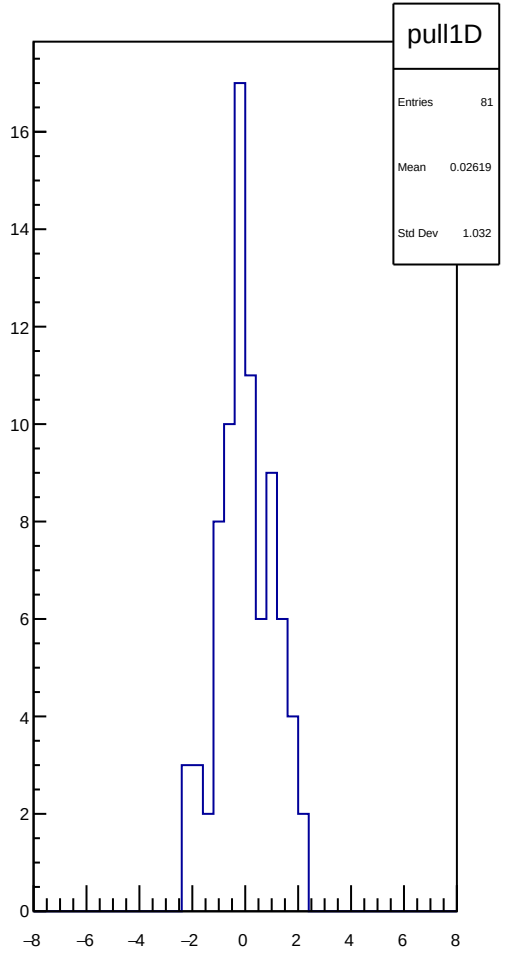

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.498e+05 / 80
p0 2.053e−12 ± 2.652e−15
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0

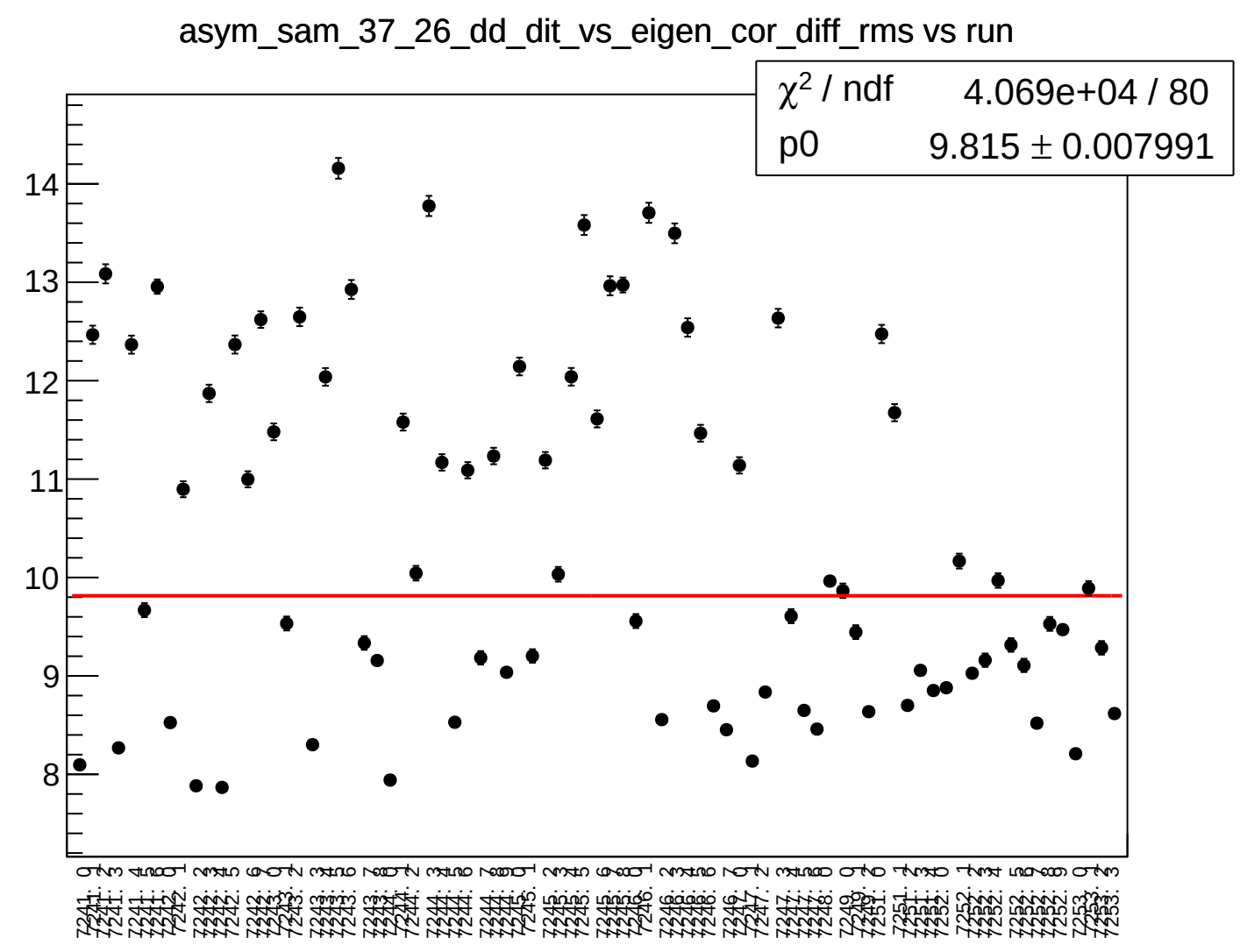

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.36 / 80
p0 −0.01523 ± 0.0113
pull
Entries 81
Mean 13.23
Std Dev 40.9

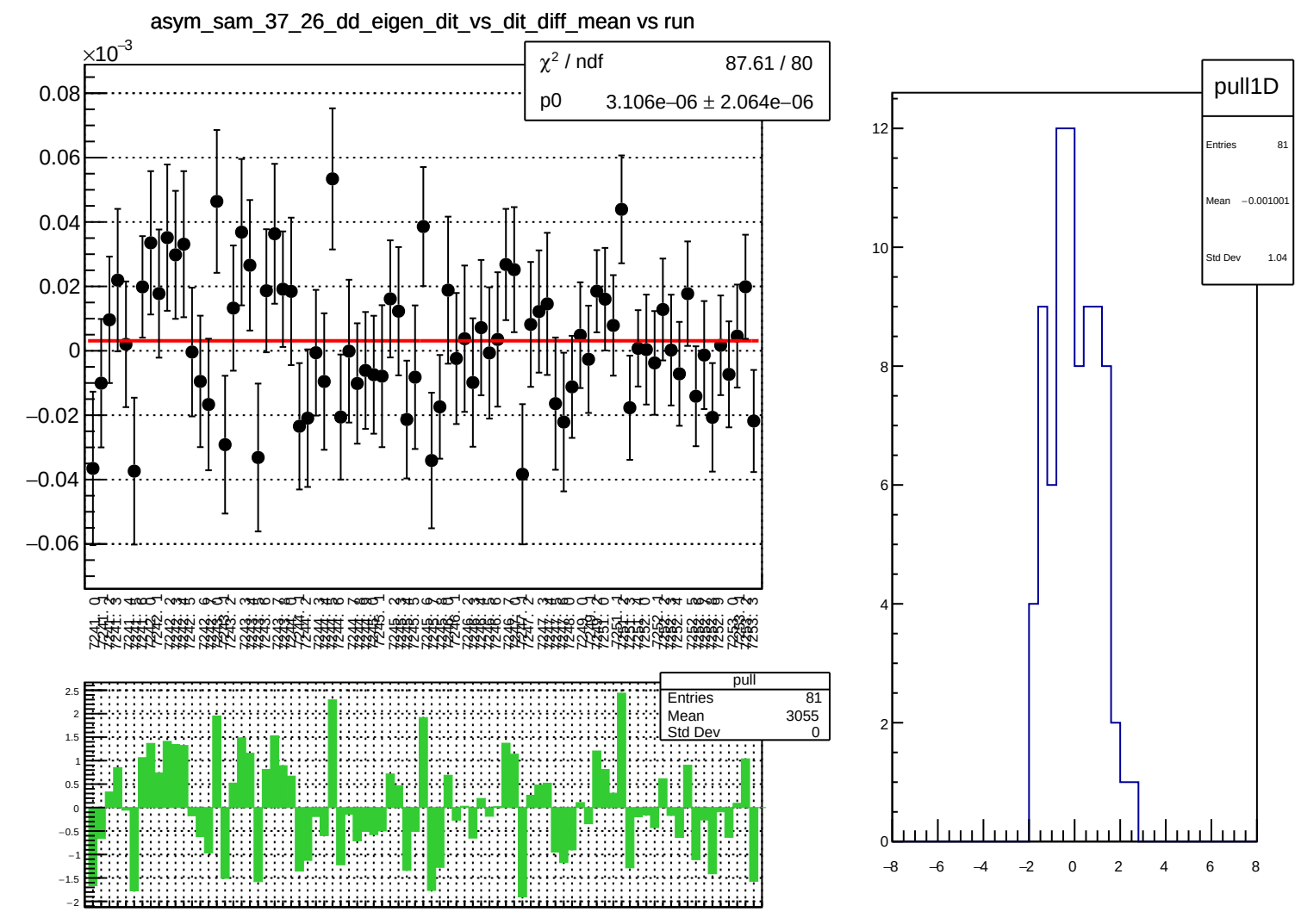

pull1D
Entries 81
Mean 0.02619
Std Dev 1.032

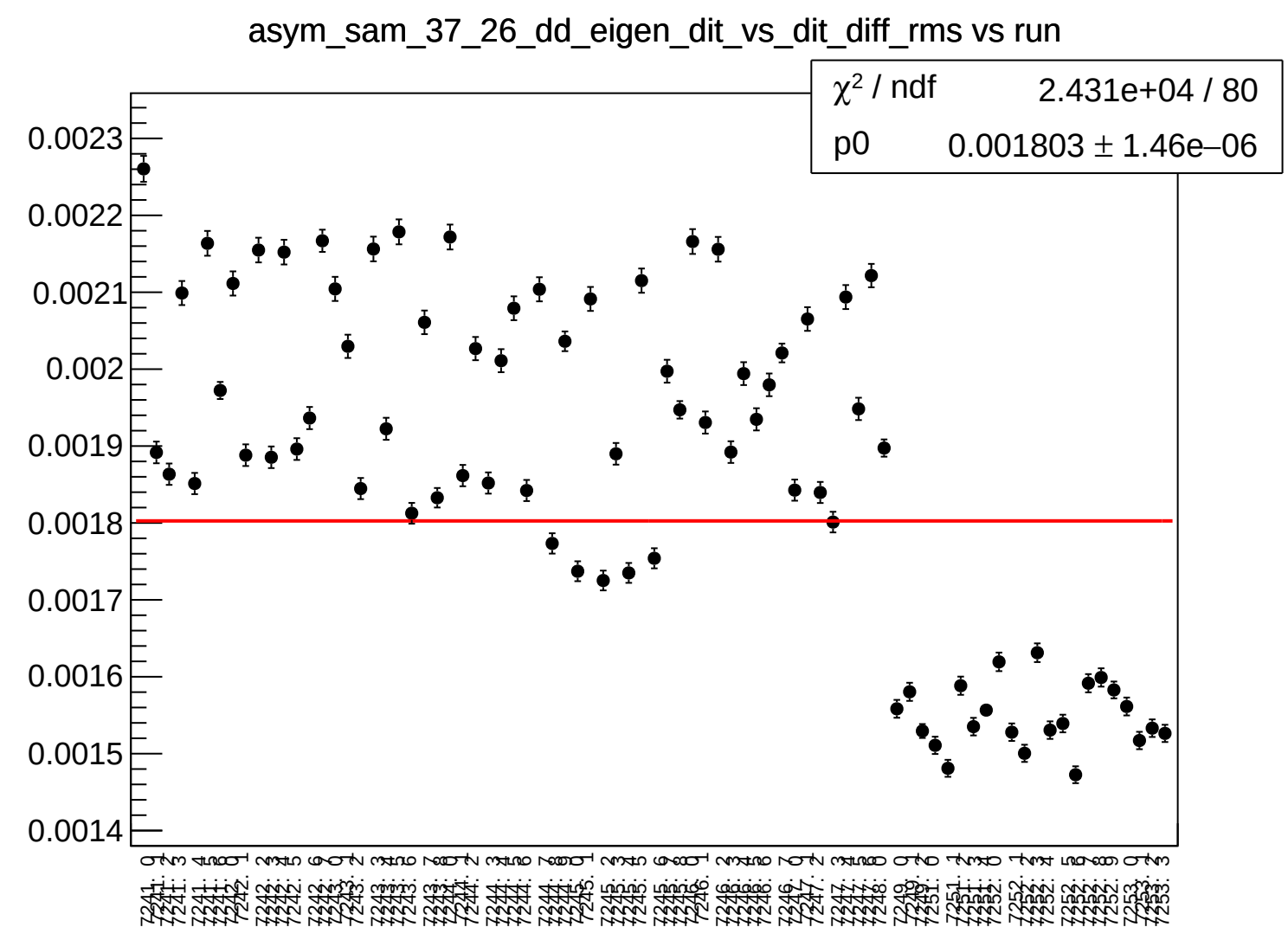

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.069e+04 / 80
p0 9.815 ± 0.007991
14
13
12
11
10
9
8

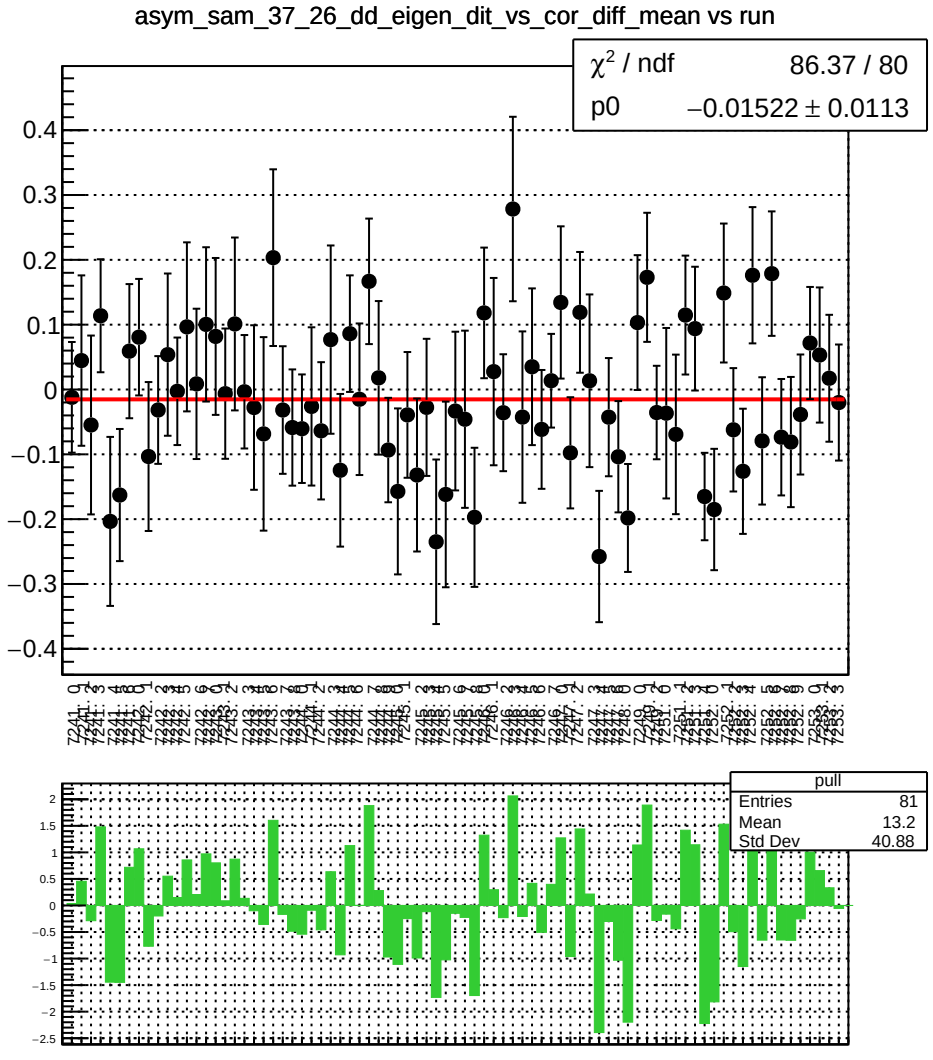

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.36 / 80
p0 −0.01523 ± 0.0113
pull
Entries 81
Mean 13.23
Std Dev 40.9

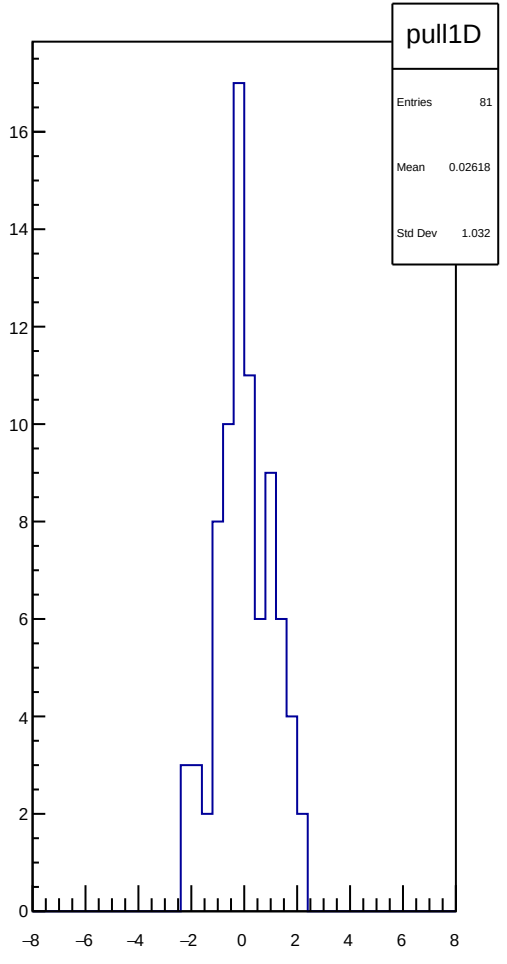

pull1D
Entries 81
Mean 0.02619
Std Dev 1.032

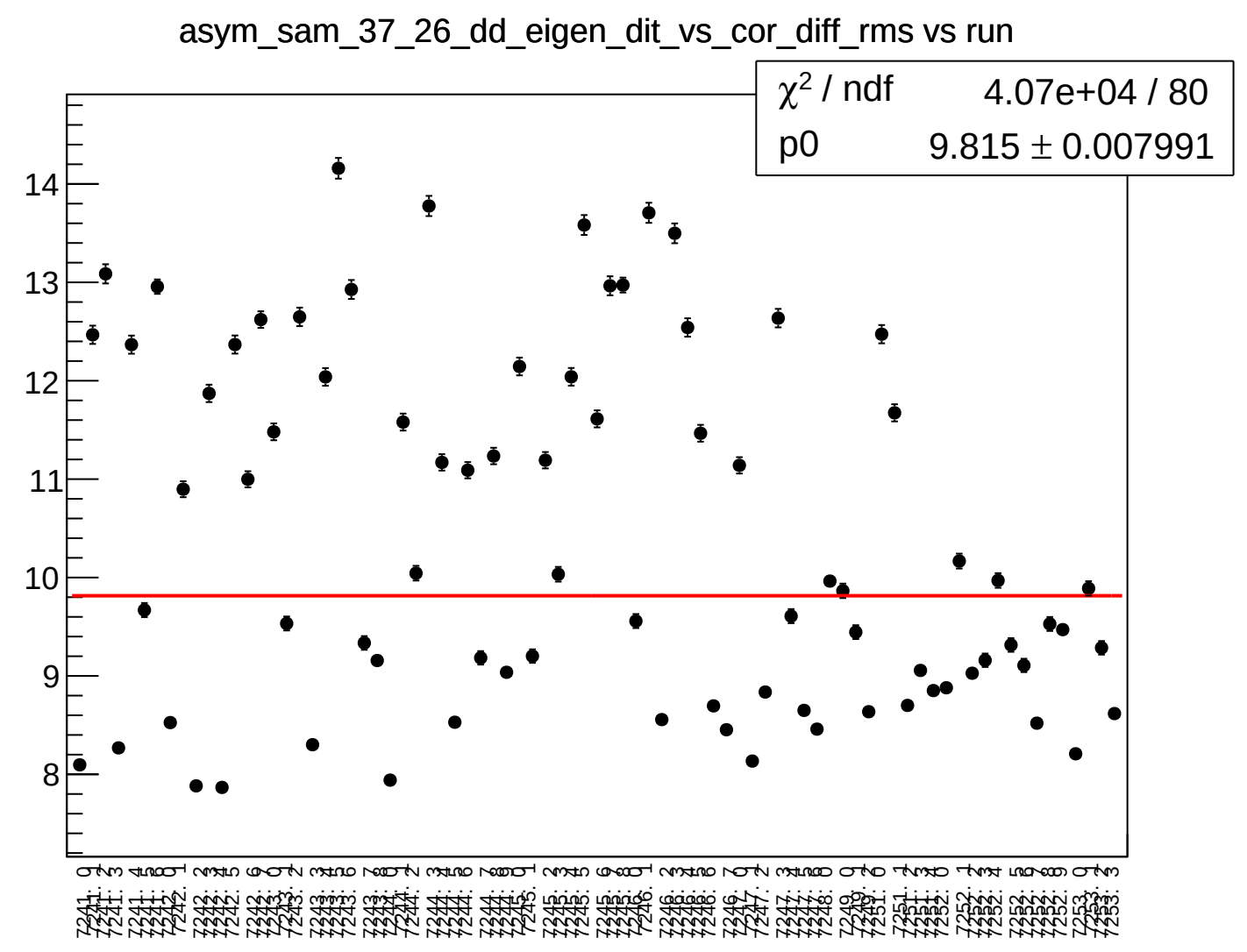

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 4.069e+04 / 80
p0 9.815 ± 0.007991
14
13
12
11
10
9
8

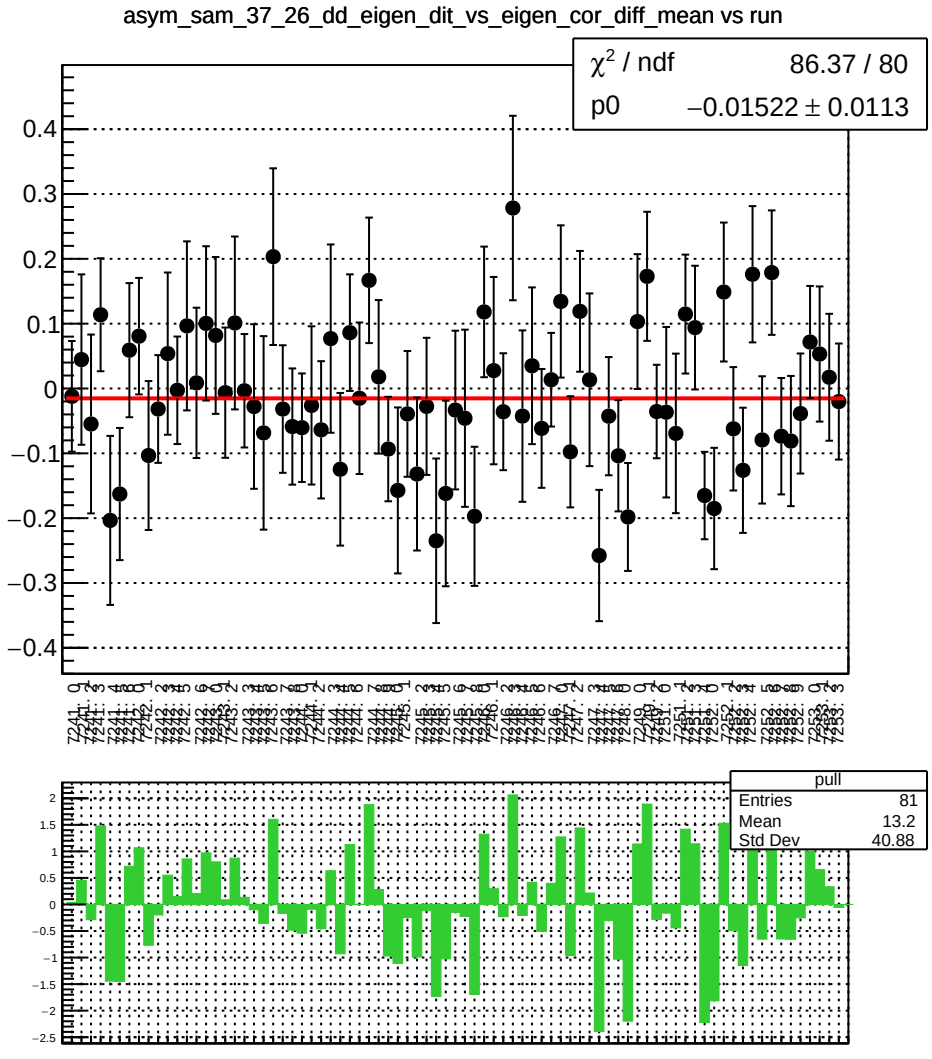

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.61 / 80
p0 3.106e−06 ± 2.064e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 81
Mean 3055
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 81
Mean −0.001001
Std Dev 1.04
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

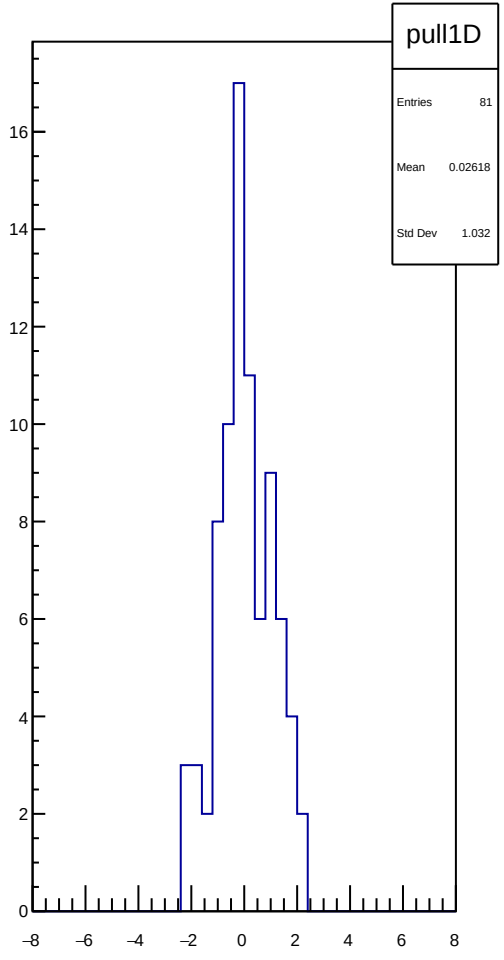

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.431e+04 / 80
p0 0.001803 ± 1.46e−06
0.0023
0.0022
0.0021
0.002
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014

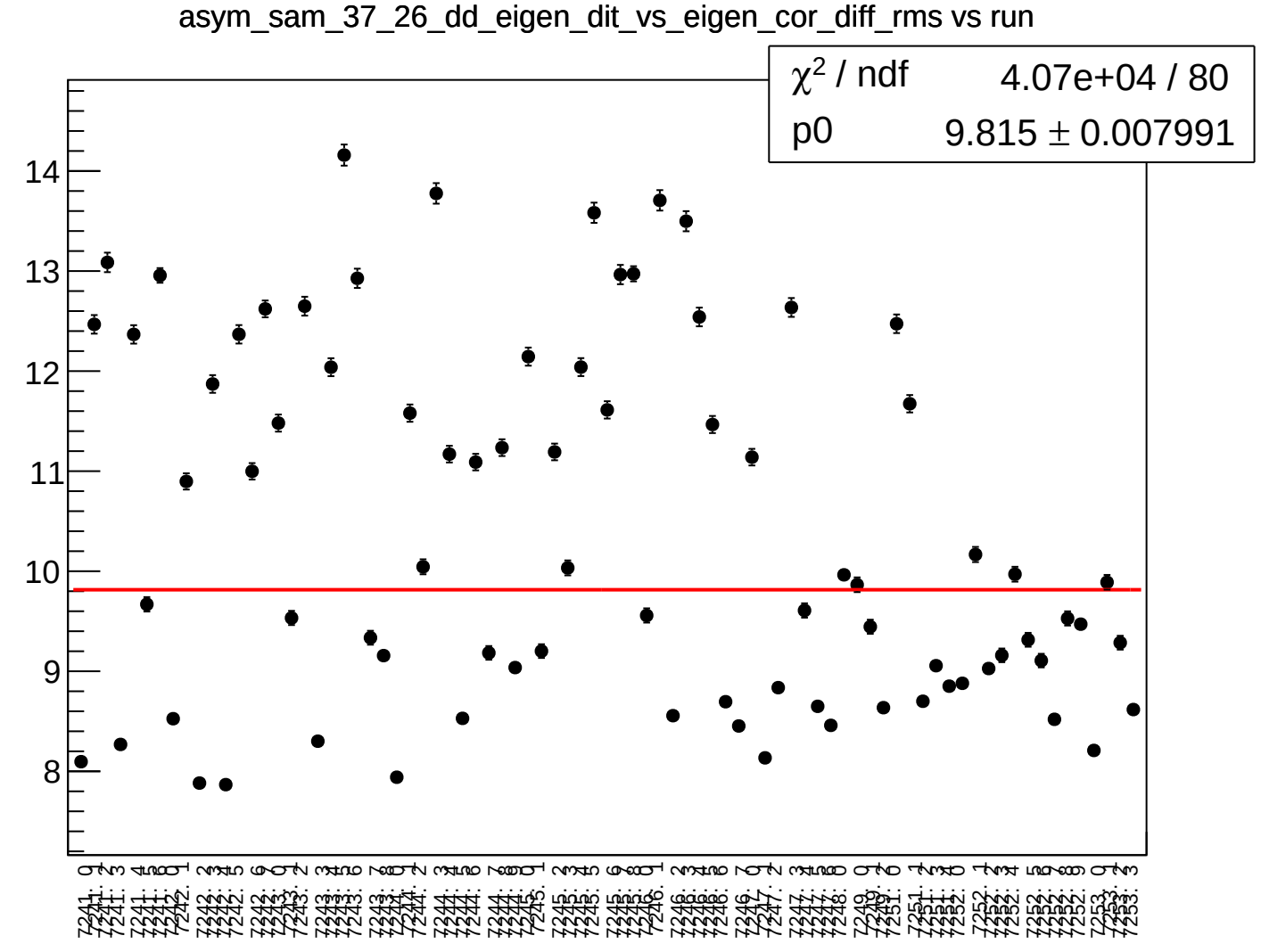

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.37 / 80
p0 −0.01522 ± 0.0113
pull
Entries 81
Mean 13.2
Std Dev 40.88

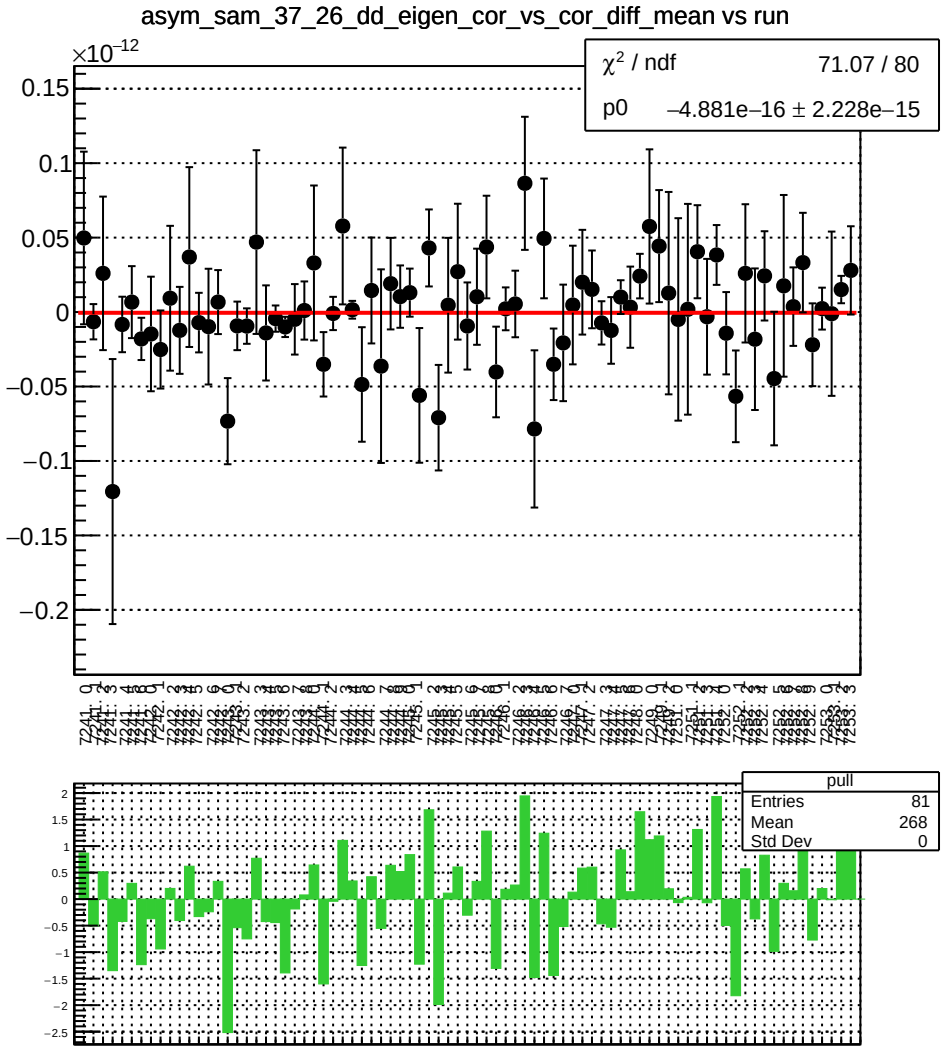

pull1D
Entries 81
Mean 0.02618
Std Dev 1.032

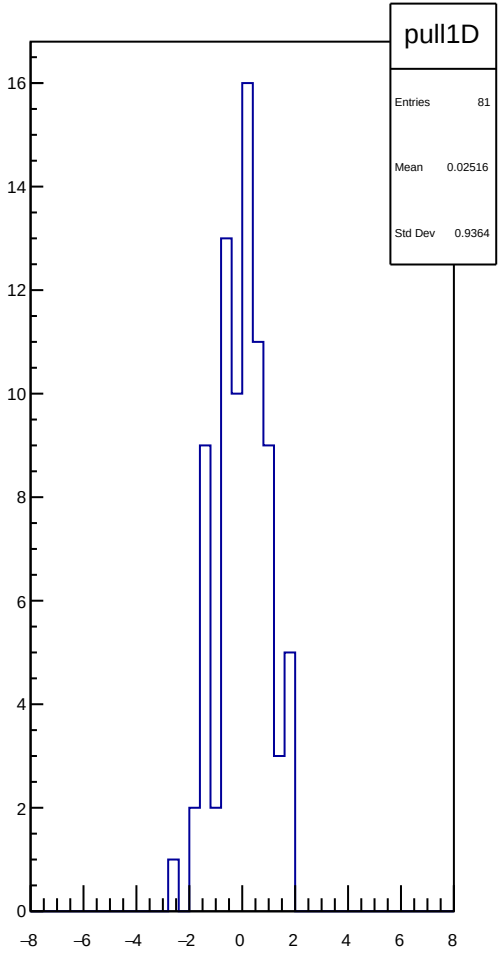

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.07e+04 / 80
p0 9.815 ± 0.007991
14
13
12
11
10
9
8

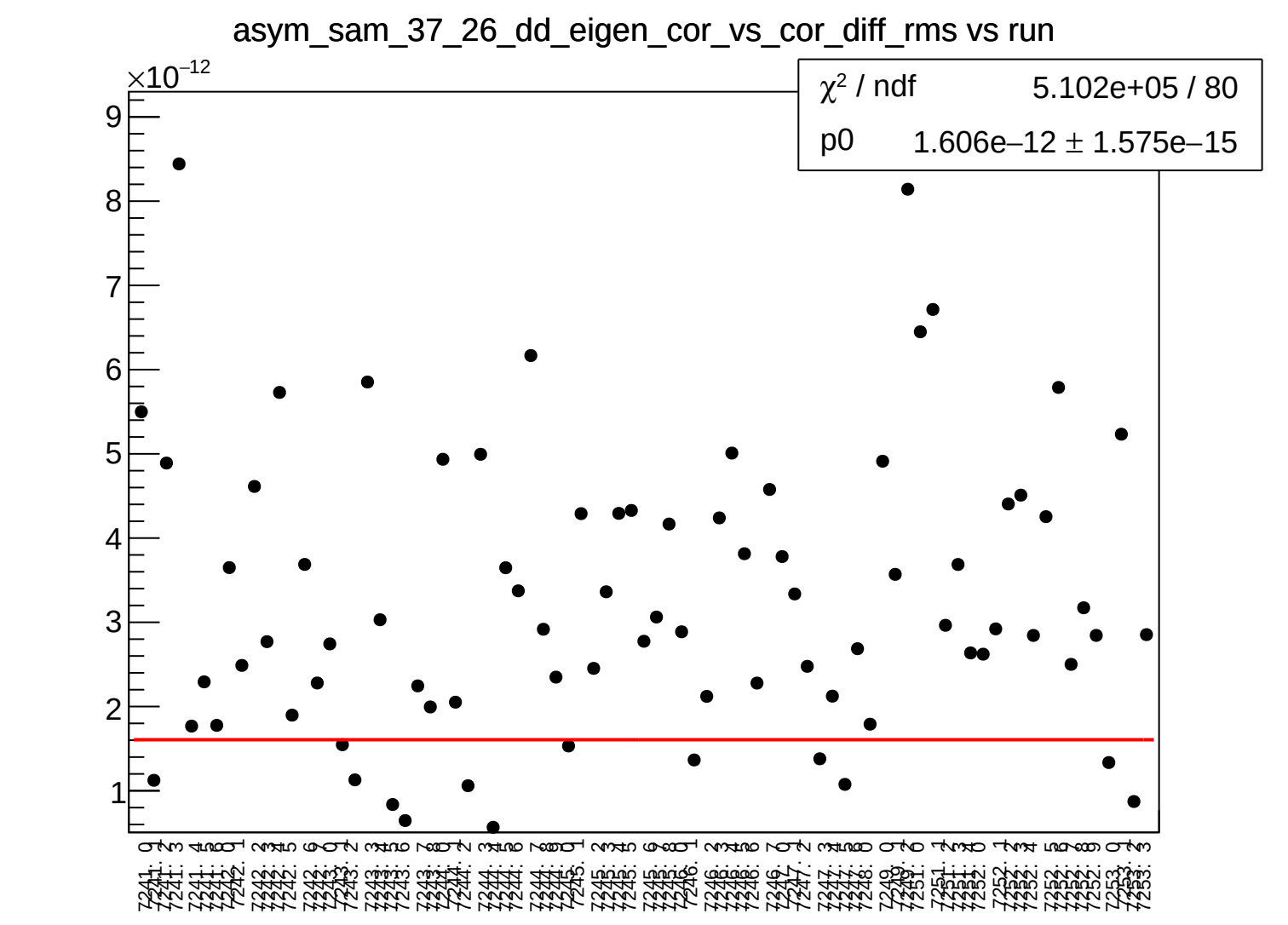

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.37 / 80
p0 −0.01522 ± 0.0113
pull
Entries 81
Mean 13.2
Std Dev 40.88

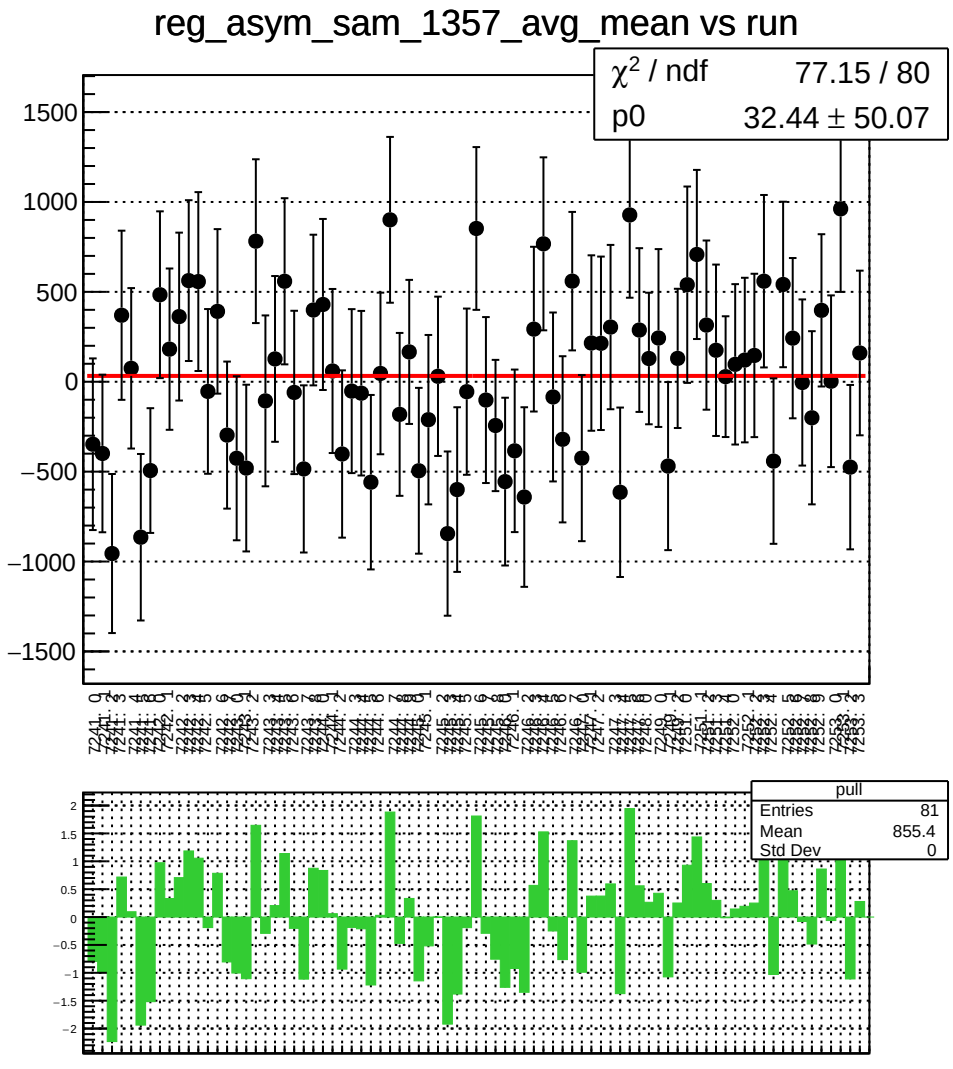

pull1D
Entries 81
Mean 0.02618
Std Dev 1.032

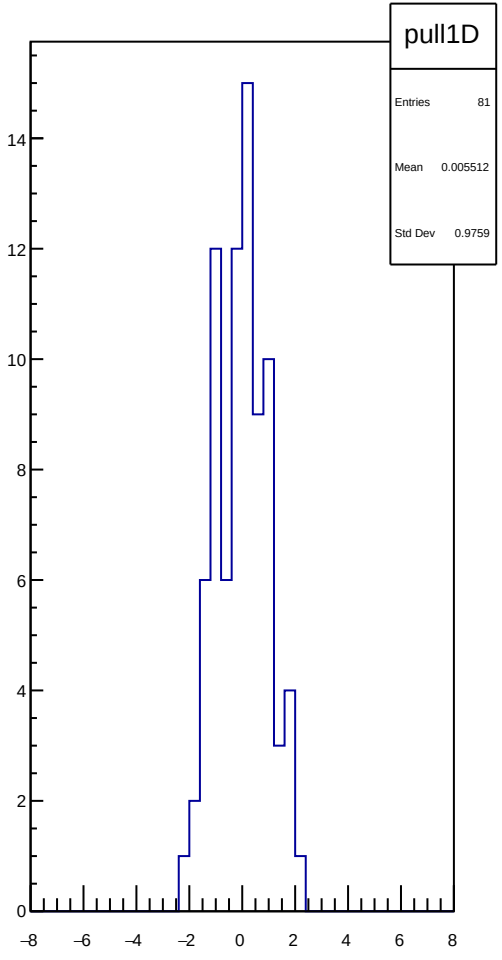

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.07e+04 / 80
p0 9.815 ± 0.007991
14
13
12
11
10
9
8

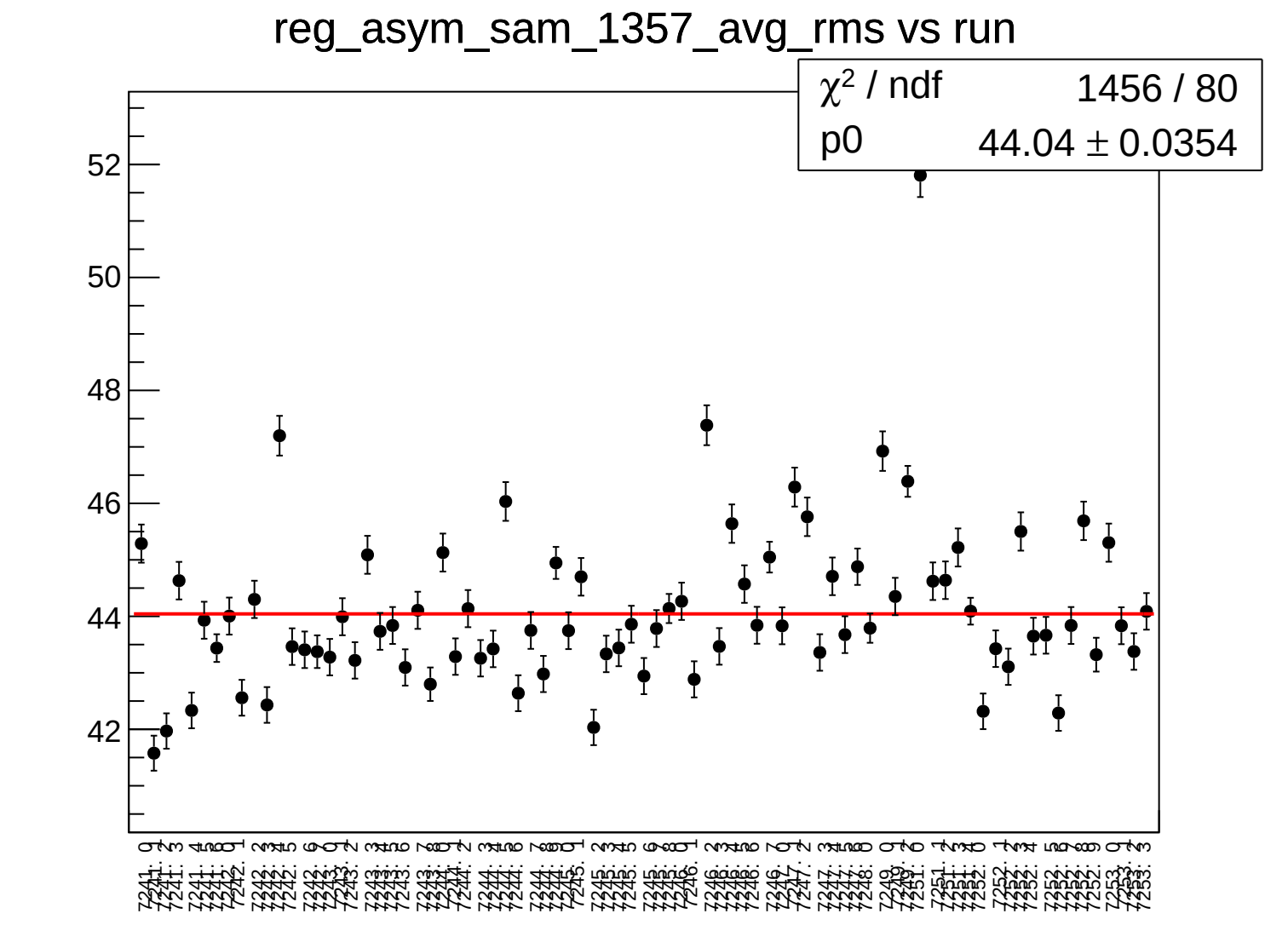

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71.07 / 80
p0 −4.881e−16 ± 2.228e−15
pull
Entries 81
Mean 268
Std Dev 0

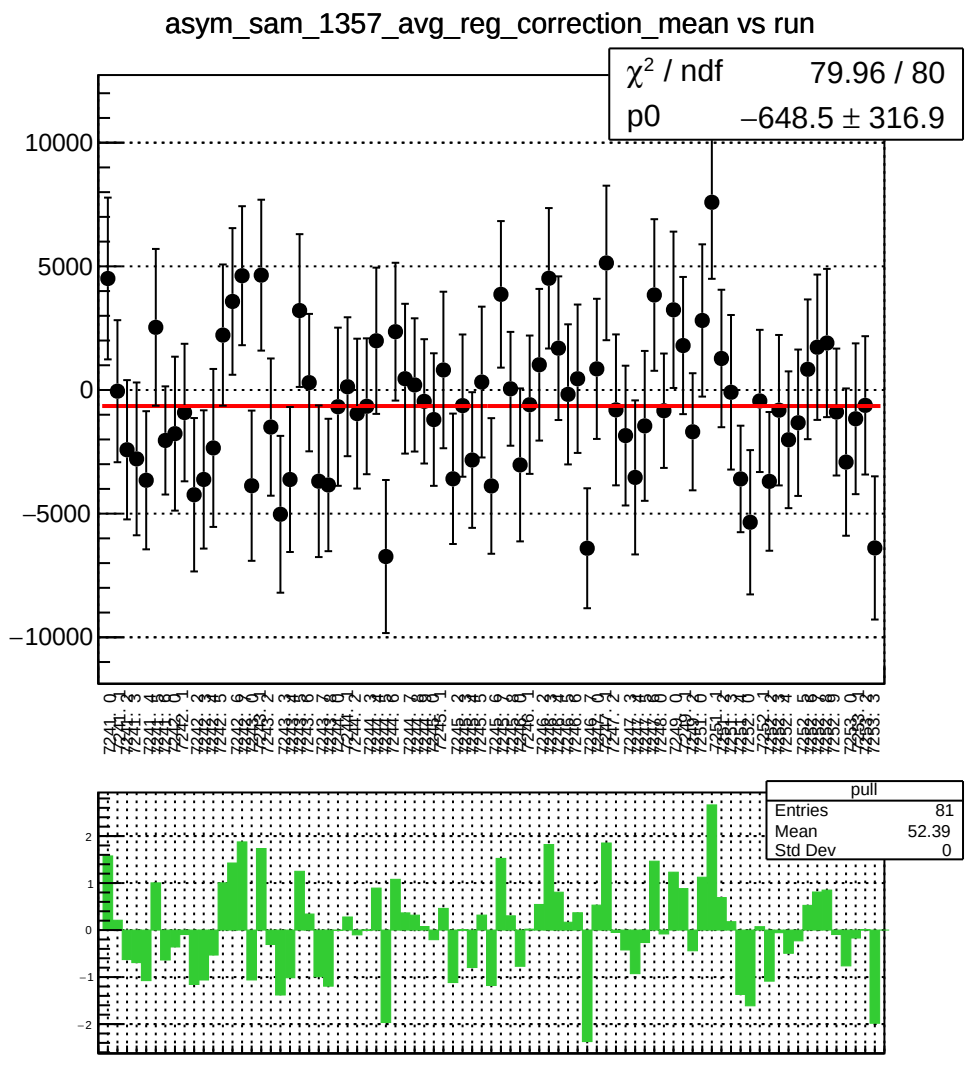

pull1D
Entries 81
Mean 0.02516
Std Dev 0.9364

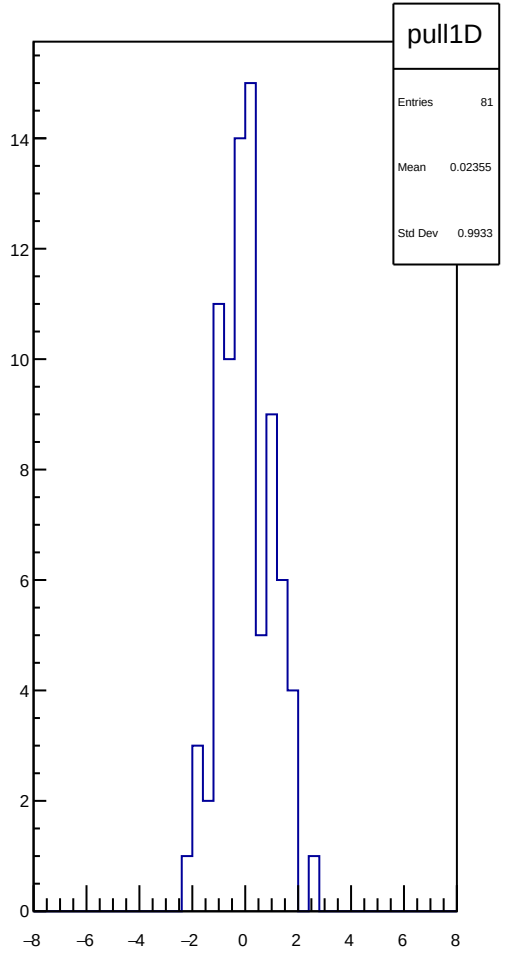

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.102e+05 / 80
p0 1.606e−12 ± 1.575e−15

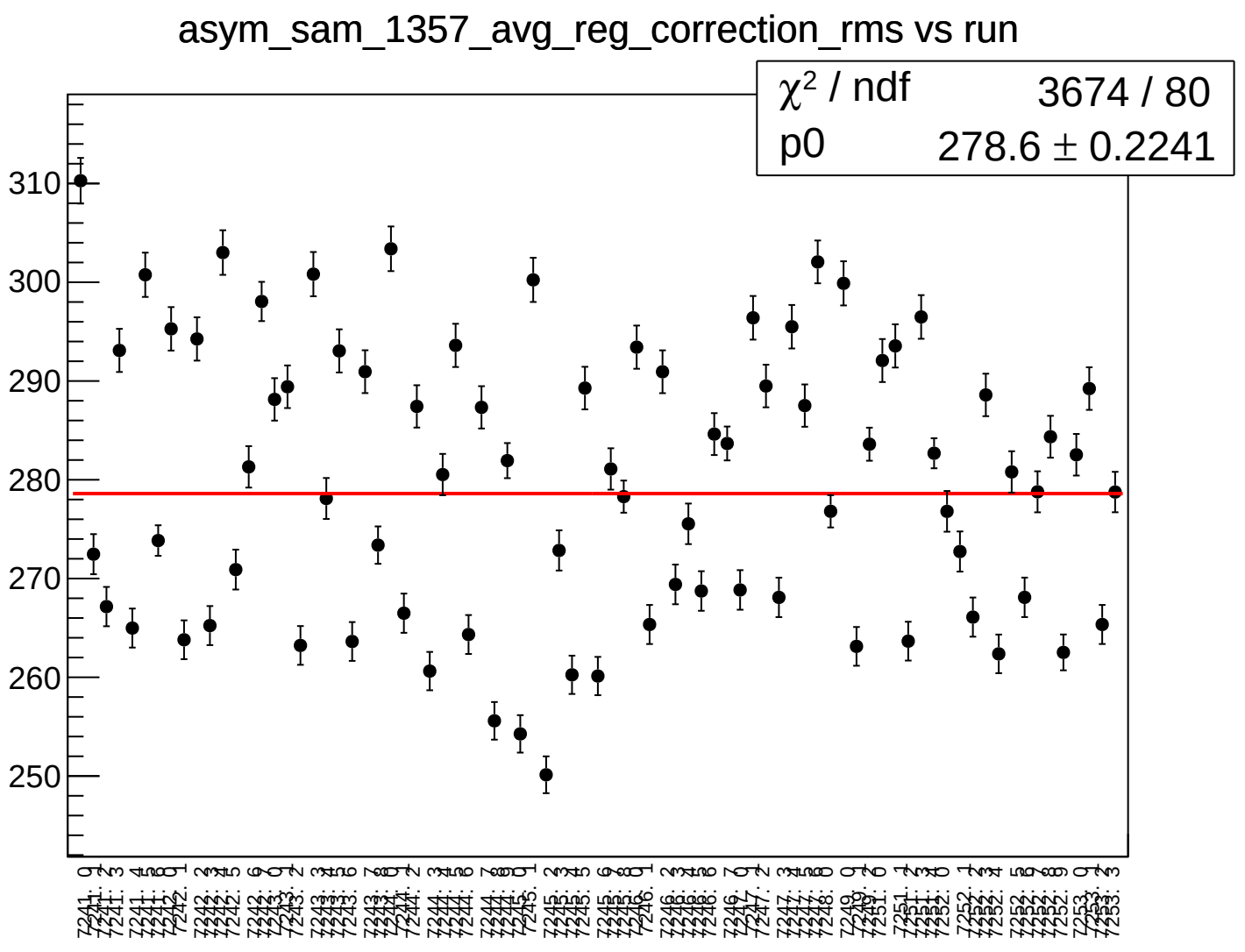

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 77.15 / 80
p0 32.44 ± 50.07
pull
Entries 81
Mean 855.4
Std Dev 0

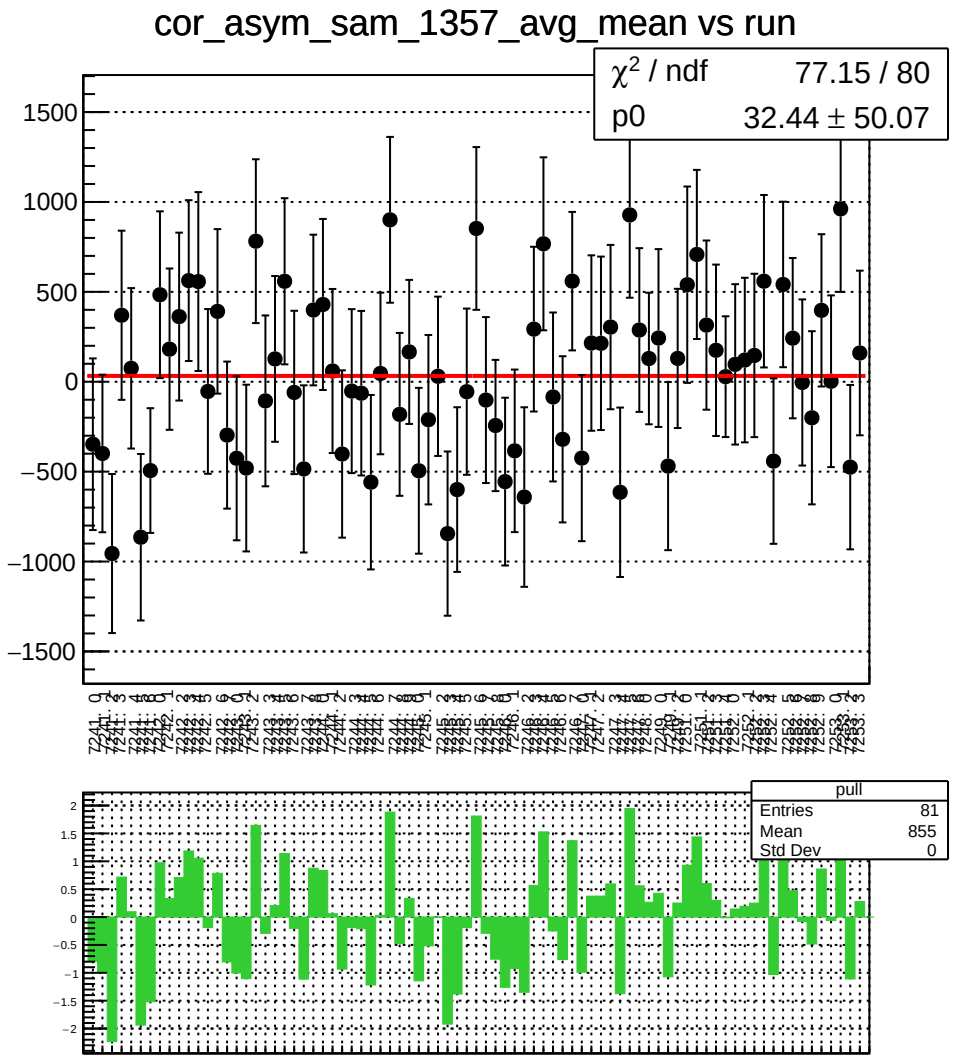

pull1D
Entries 81
Mean 0.005512
Std Dev 0.9759

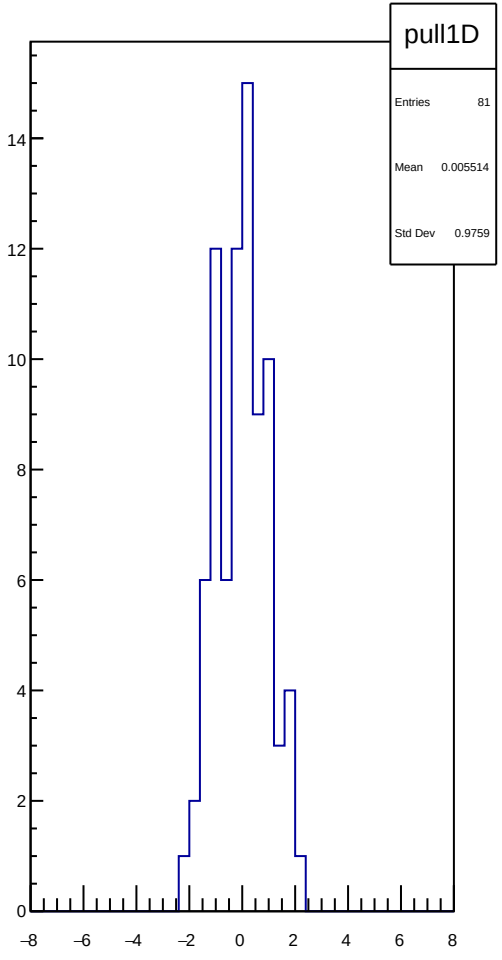

reg_asym_sam_1357_avg_rms vs run
χ² / ndf 1456 / 80
p0 44.04 ± 0.0354
52
50
48
46
44
42

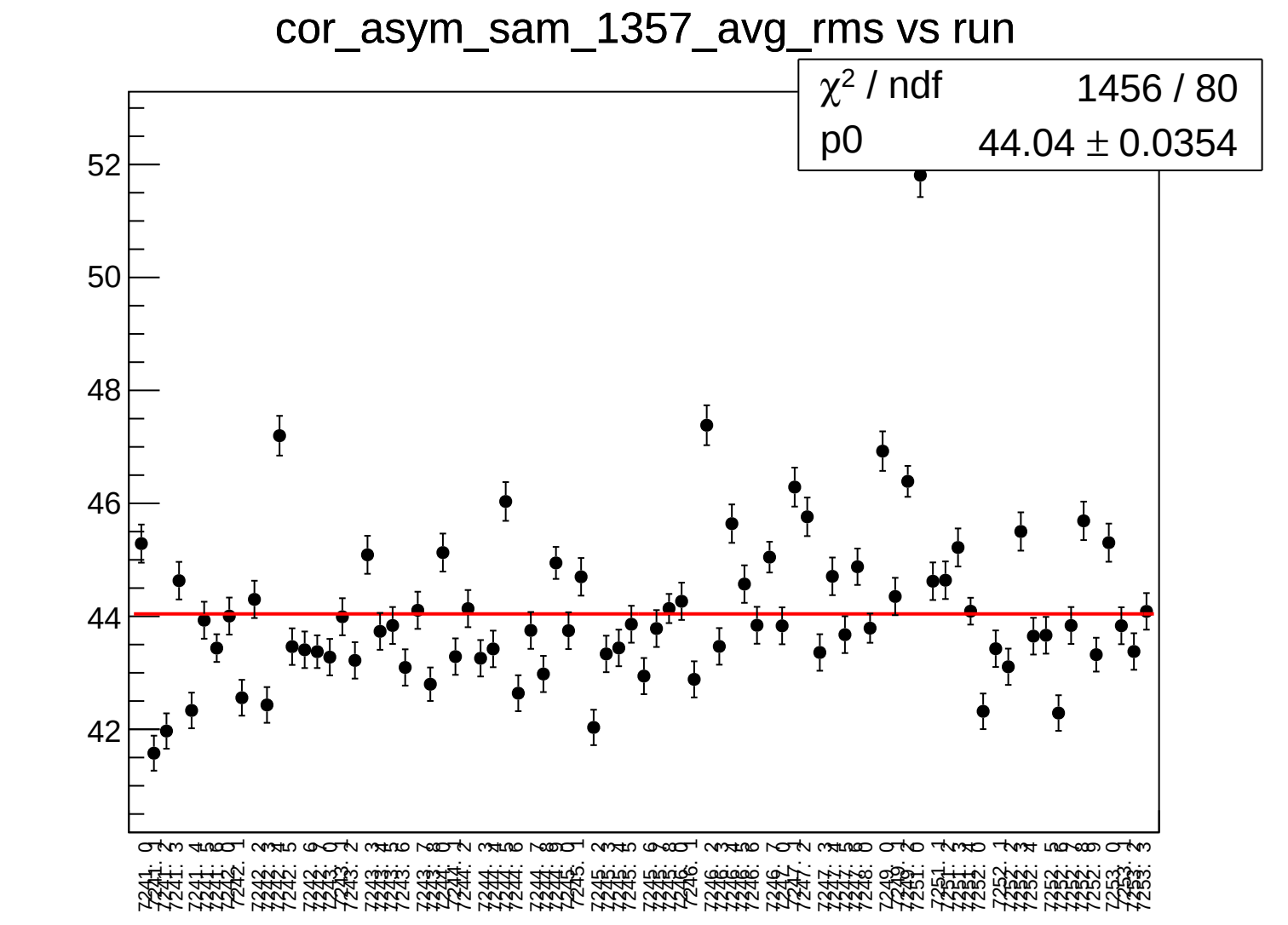

asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 79.96 / 80
p0 −648.5 ± 316.9
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 52.39
Std Dev 0
2
1
0
−1
−2

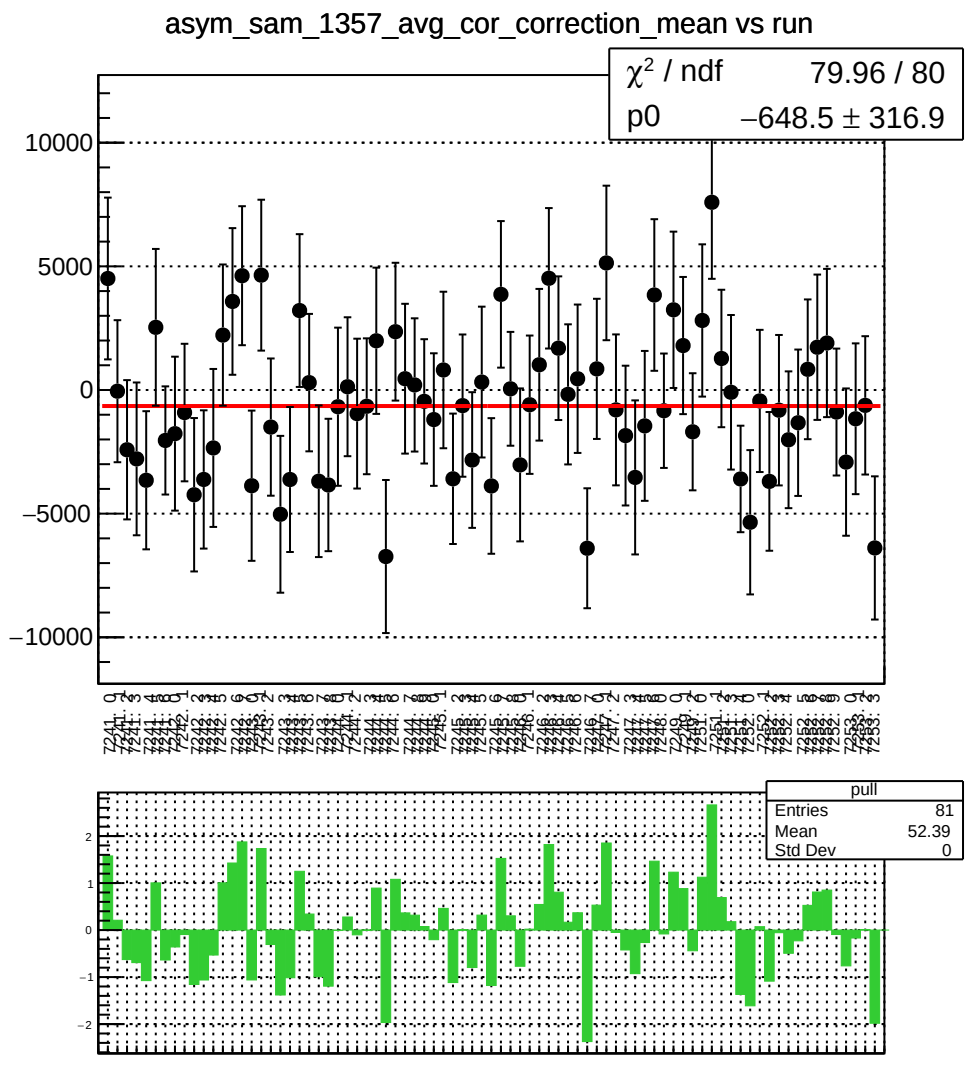

pull1D
Entries 81
Mean 0.02355
Std Dev 0.9933
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

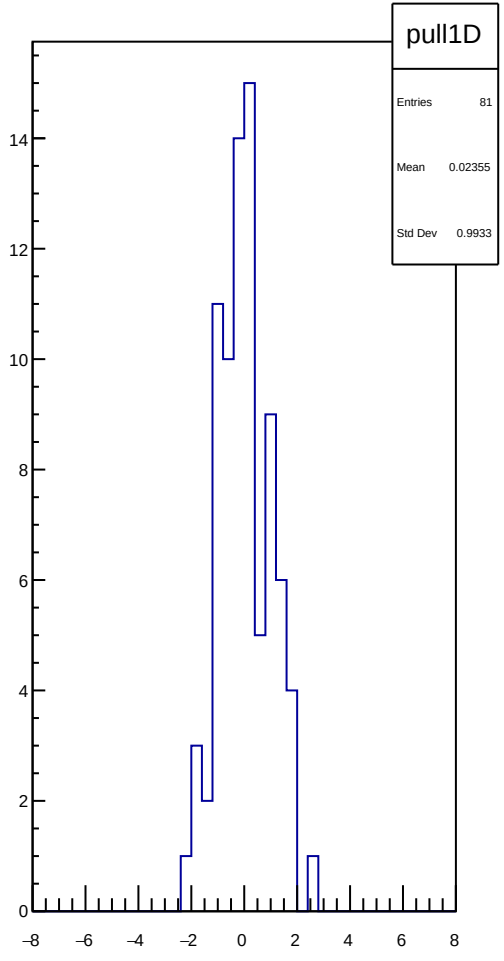

asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 3674 / 80
p0 278.6 ± 0.2241
310
300
290
280
270
260
250

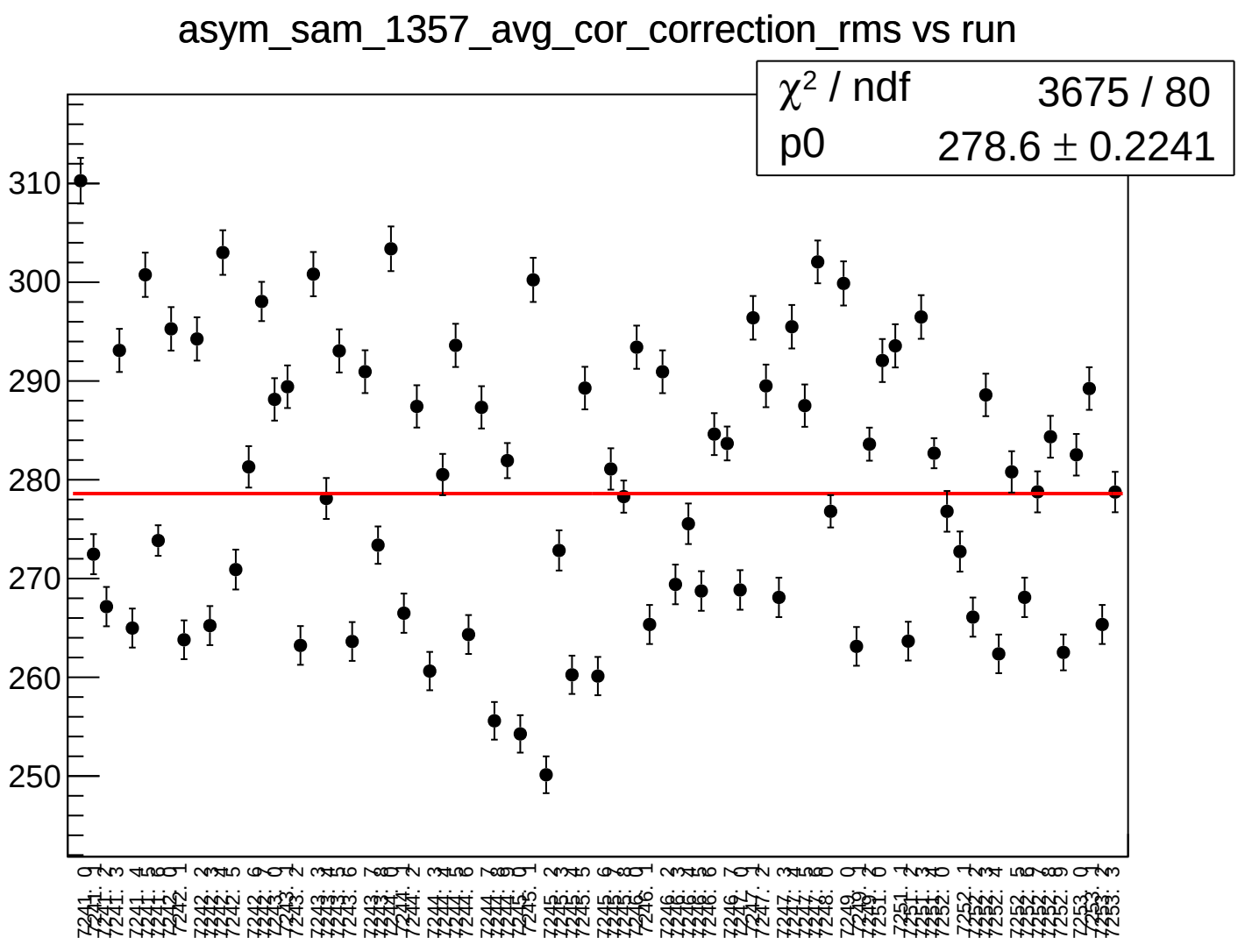

cor_asym_sam_1357_avg_mean vs run
χ² / ndf 77.15 / 80
p0 32.44 ± 50.07
pull
Entries 81
Mean 855
Std Dev 0

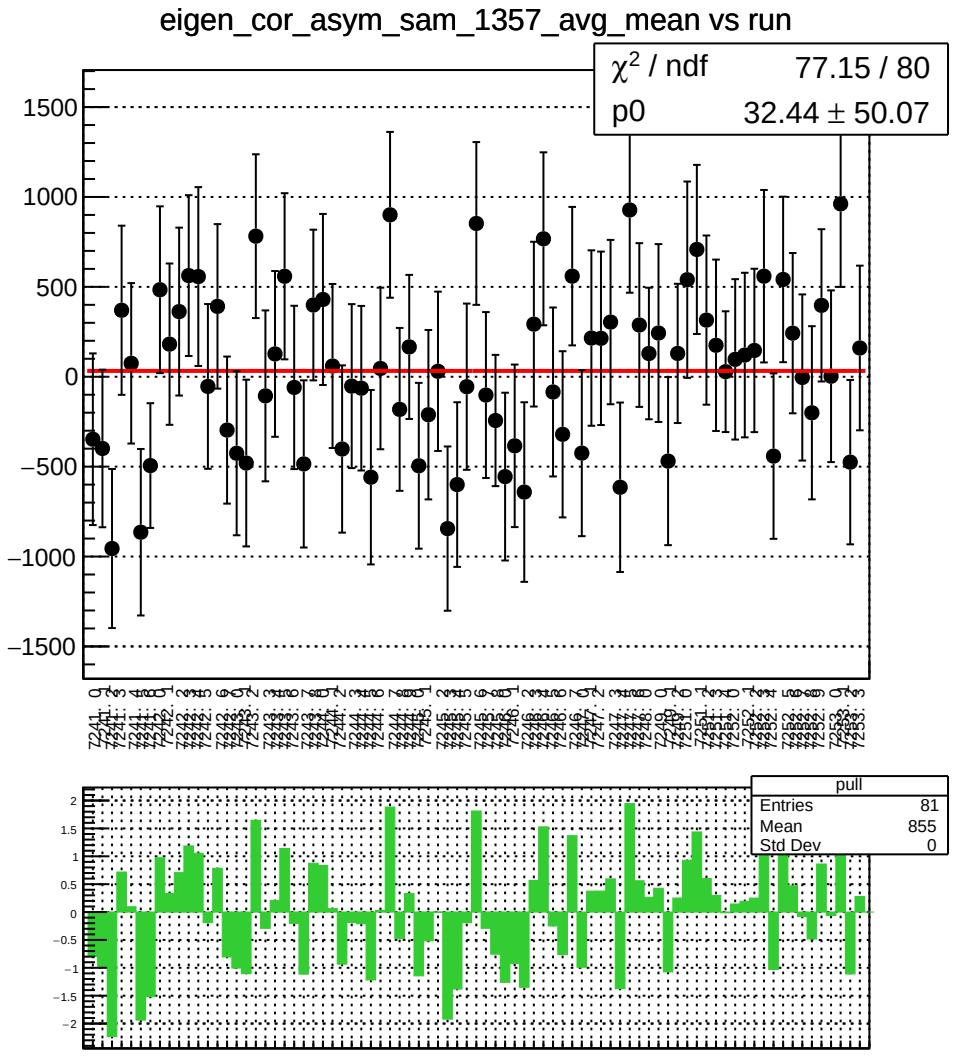

pull1D
Entries 81
Mean 0.005514
Std Dev 0.9759

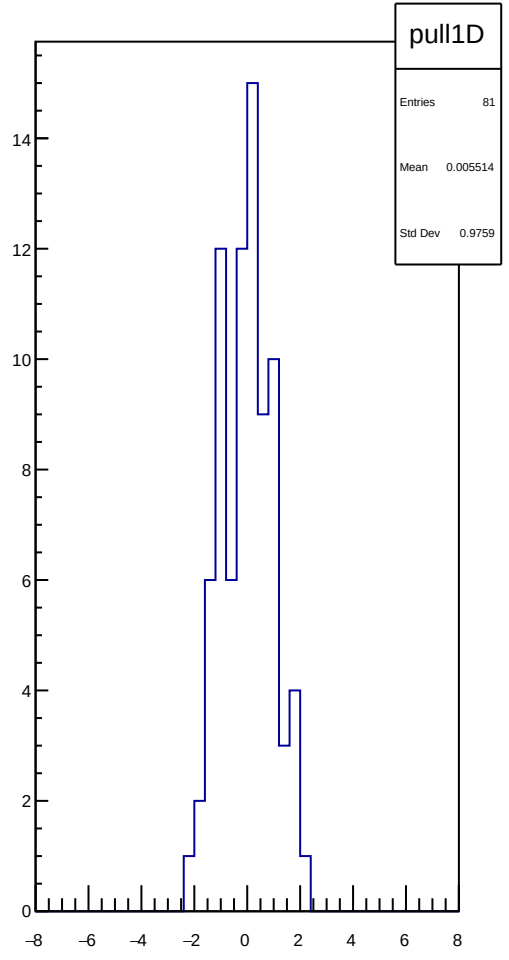

cor_asym_sam_1357_avg_rms vs run
χ² / ndf 1456 / 80
p0 44.04 ± 0.0354
52
50
48
46
44
42

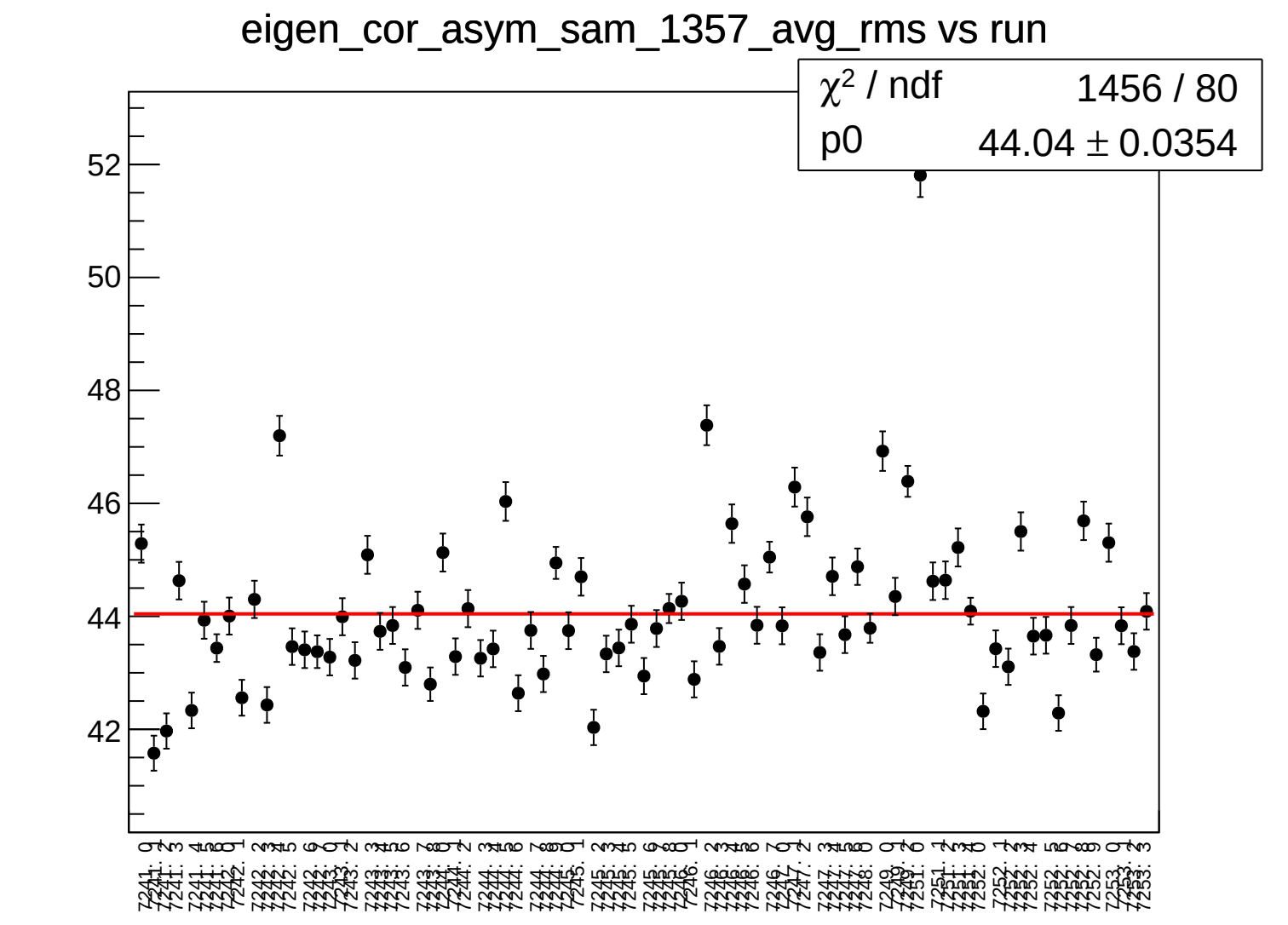

asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 79.96 / 80
p0 −648.5 ± 316.9
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 52.39
Std Dev 0
2
1
0
−1
−2

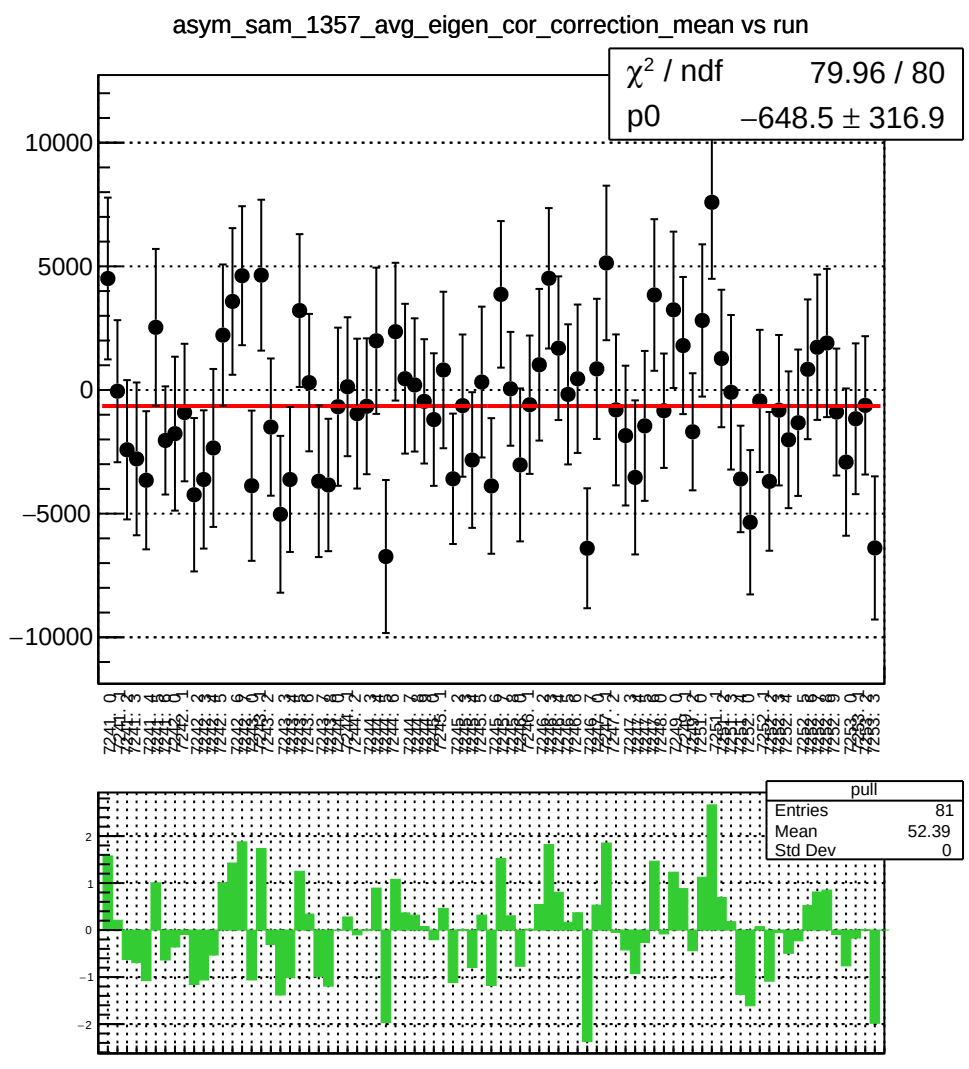

pull1D
Entries 81
Mean 0.02355
Std Dev 0.9933
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

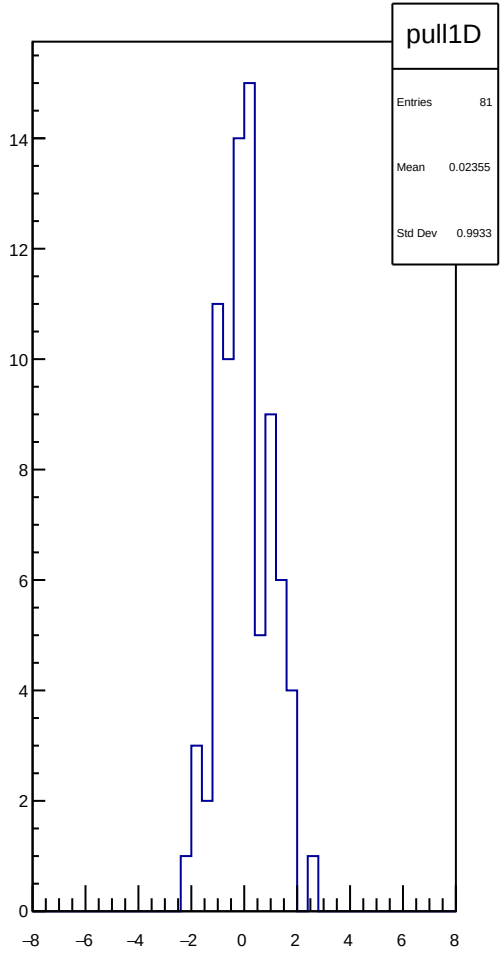

asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 3675 / 80
p0 278.6 ± 0.2241
310
300
290
280
270
260
250

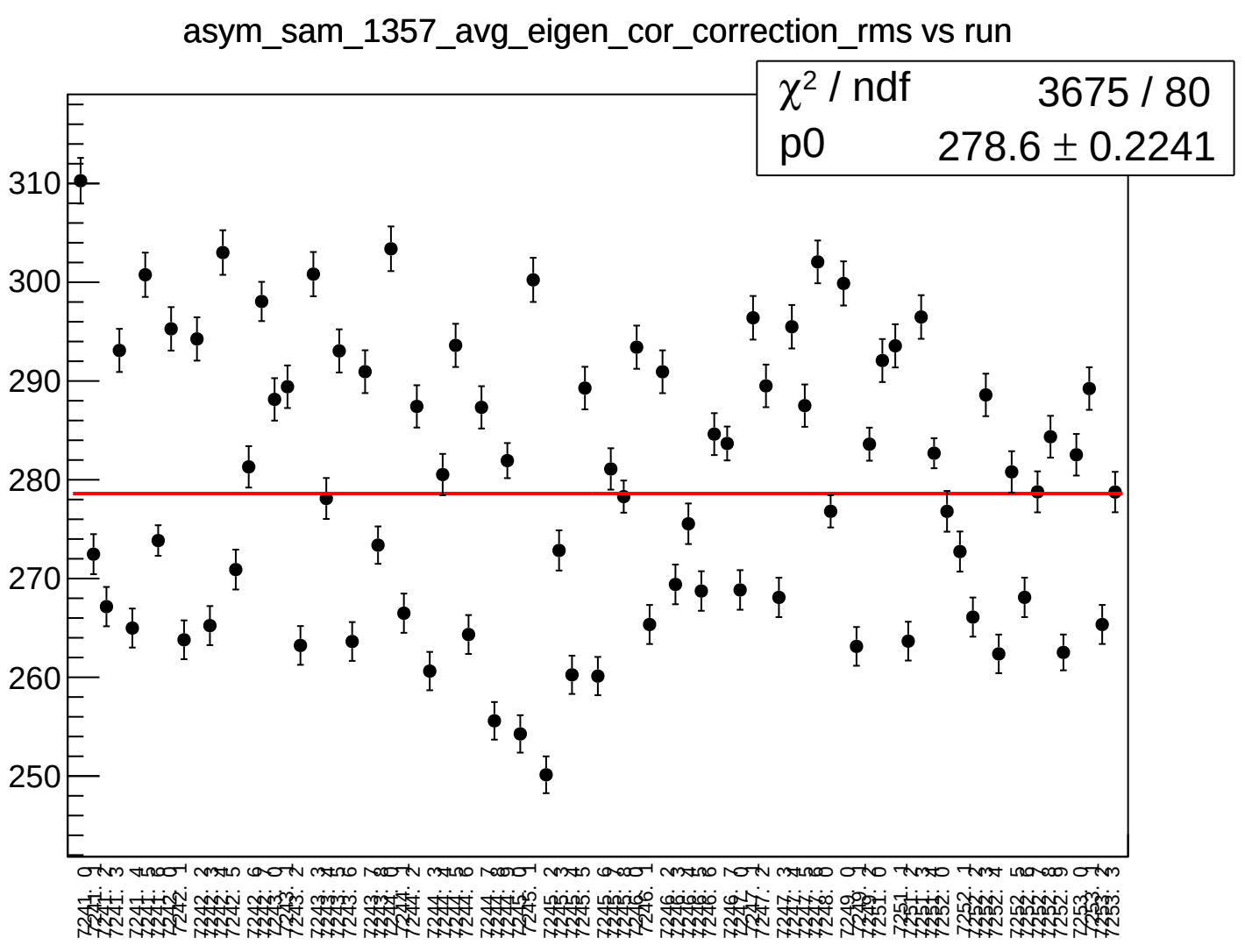

eigen_cor_asym_sam_1357_avg_mean vs run
χ^2 / ndf 77.15 / 80
p0 32.44 ± 50.07
1500
1000
500
0
−500
−1000
−1500
pull
Entries 81
Mean 855
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

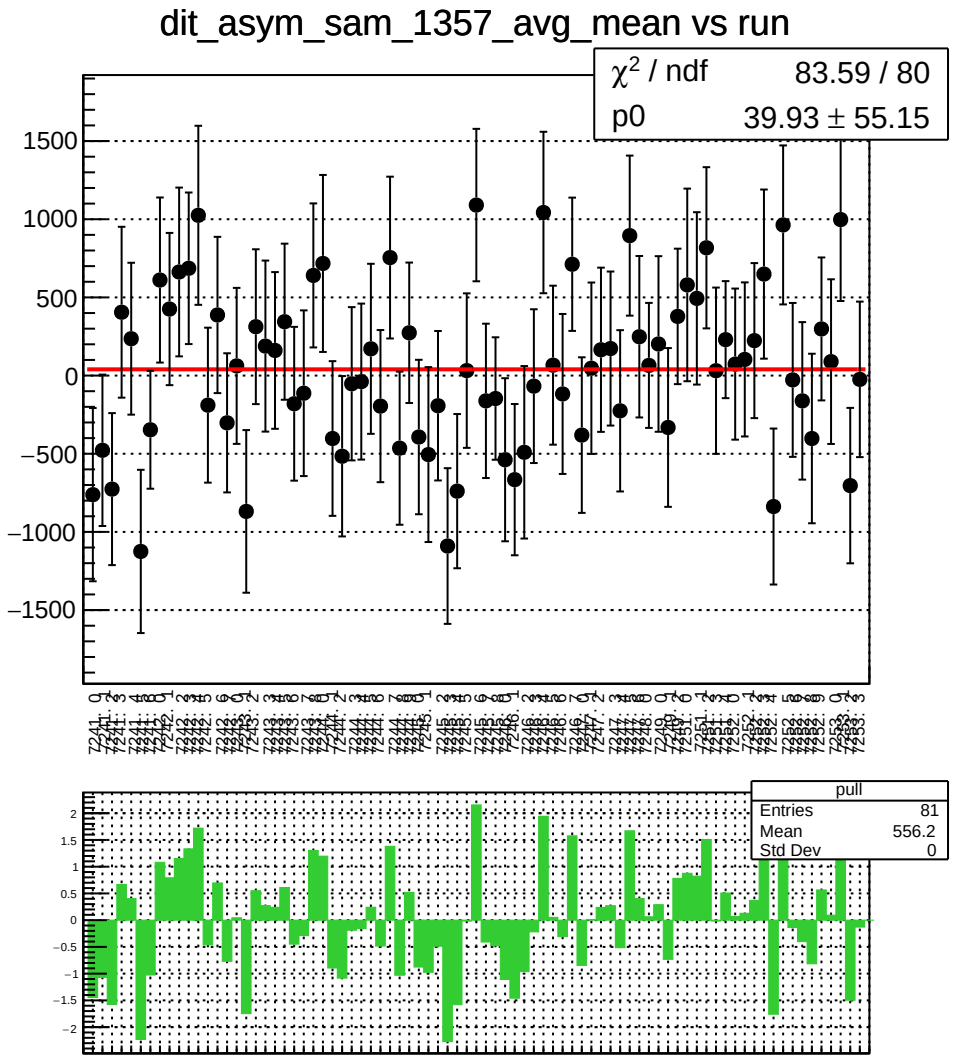

pull1D
Entries 81
Mean 0.005514
Std Dev 0.9759
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

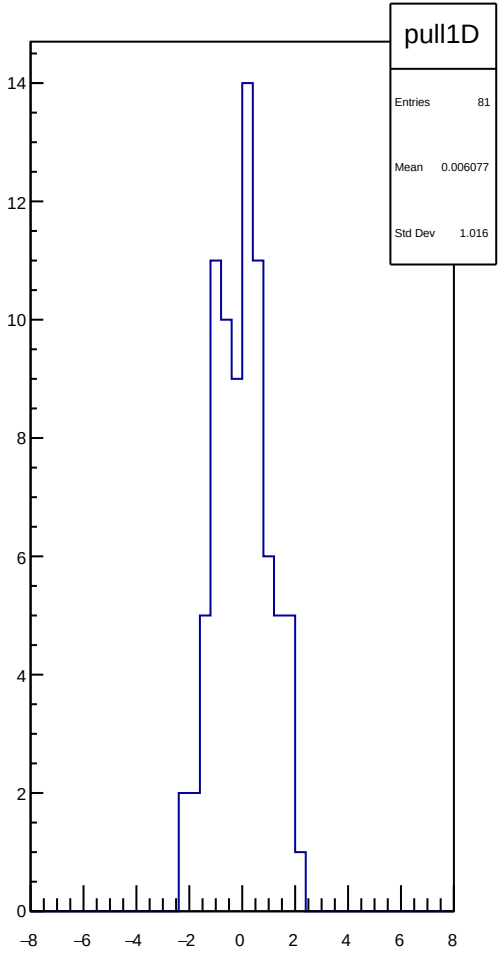

eigen_cor_asym_sam_1357_avg_rms vs run
χ² / ndf 1456 / 80
p0 44.04 ± 0.0354
52
50
48
46
44
42

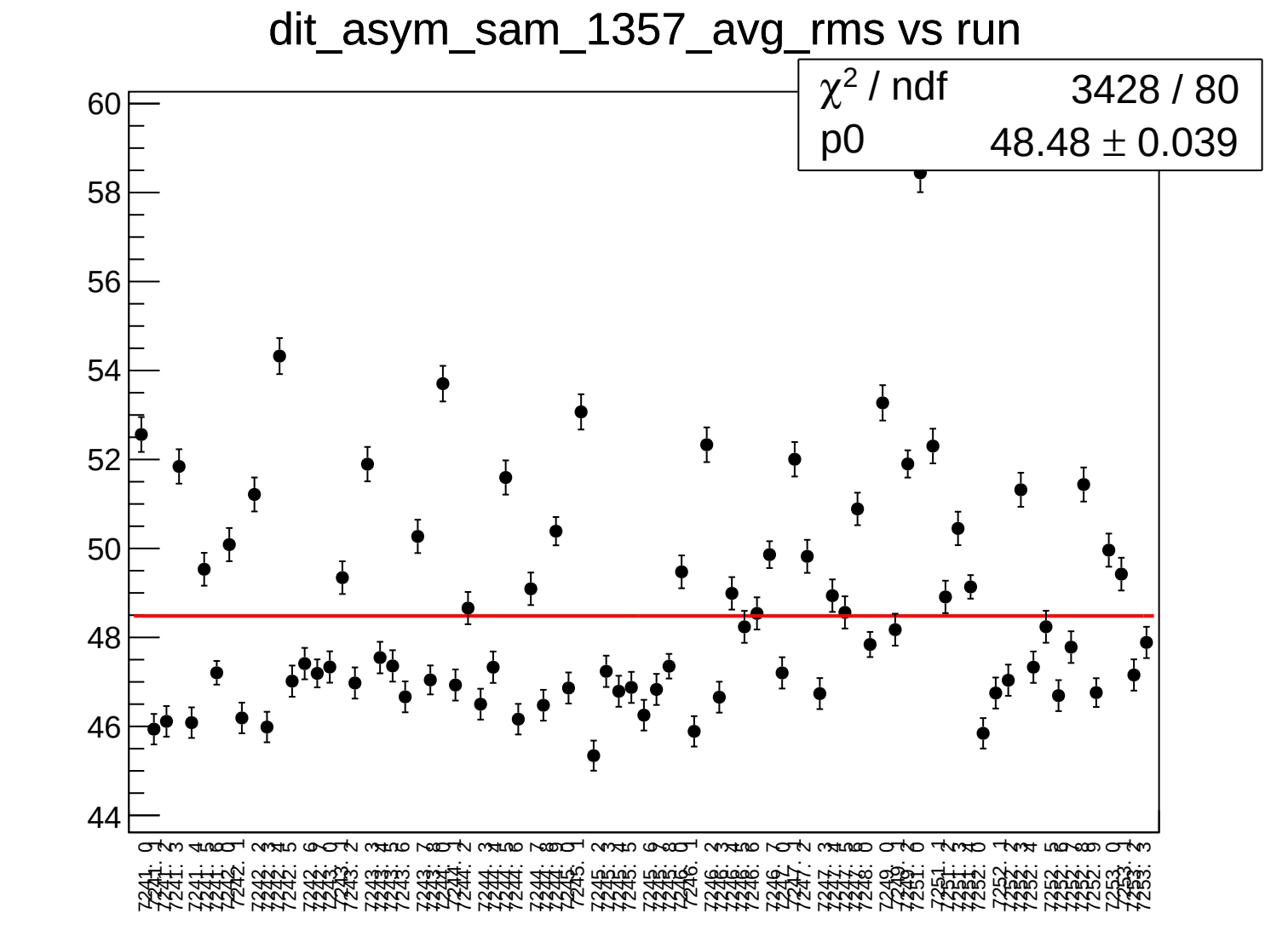

asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 79.96 / 80
p0 −648.5 ± 316.9
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 52.39
Std Dev 0
2
1
0
−1
−2

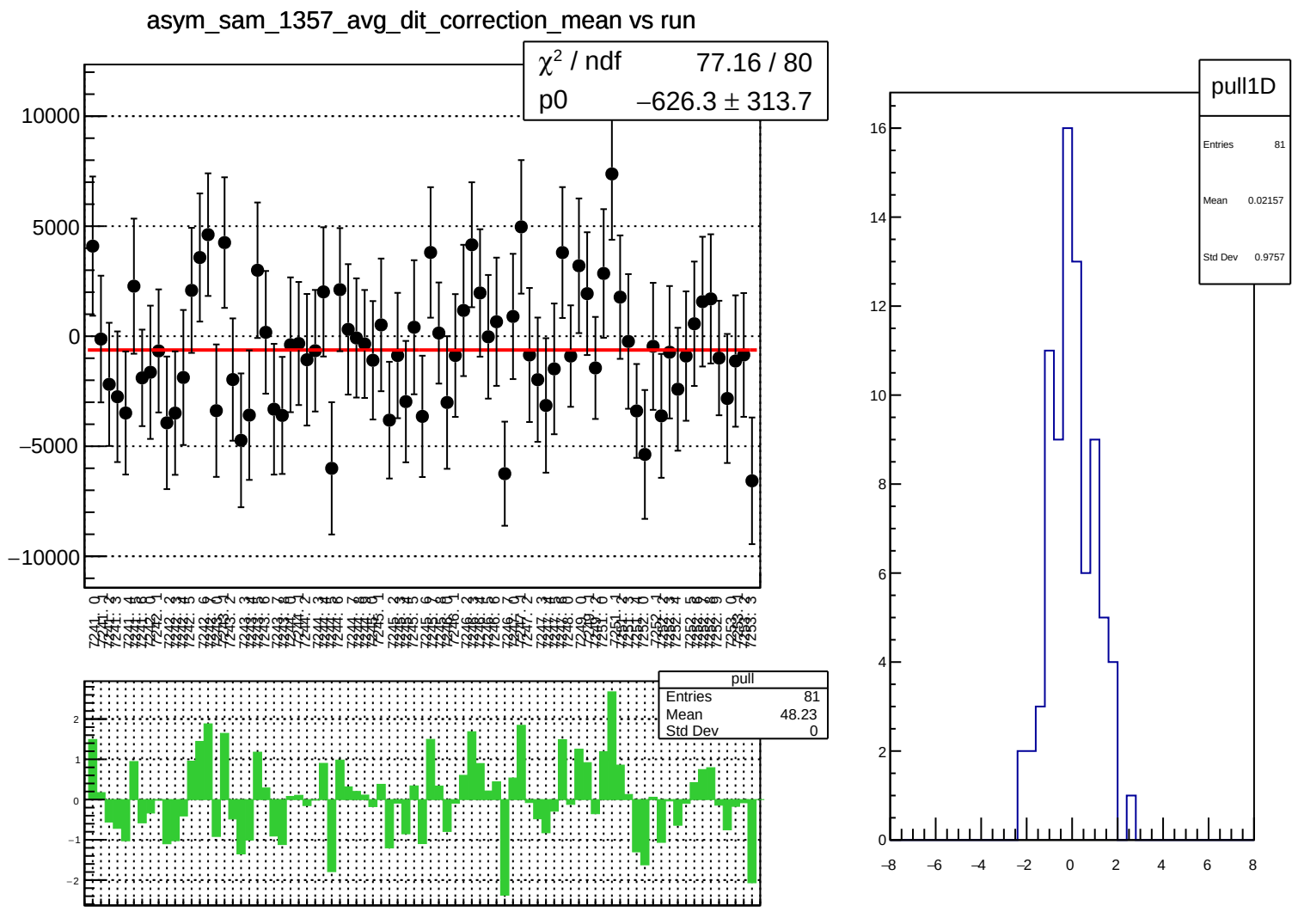

pull1D
Entries 81
Mean 0.02355
Std Dev 0.9933
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

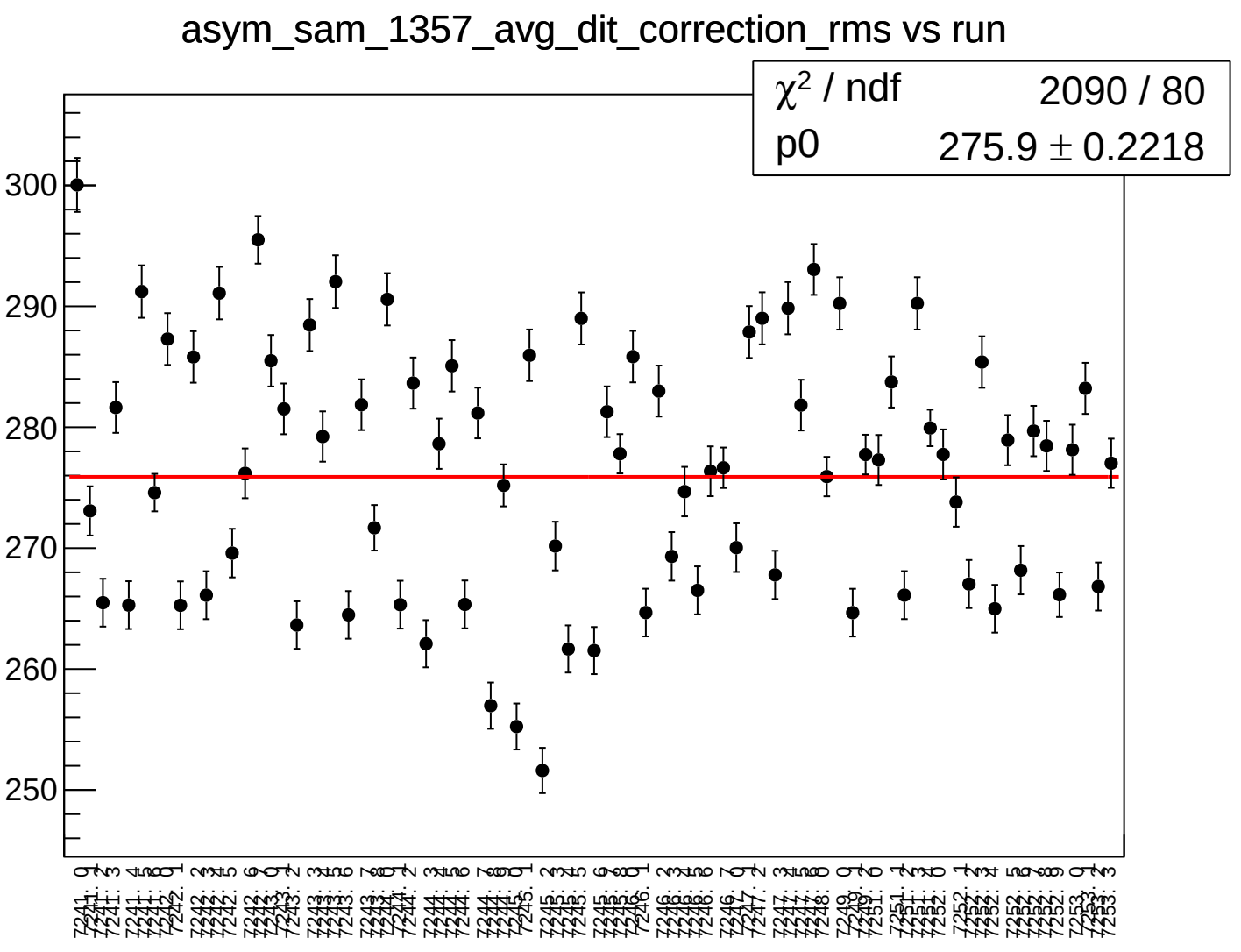

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 3675 / 80
p0 278.6 ± 0.2241
310
300
290
280
270
260
250

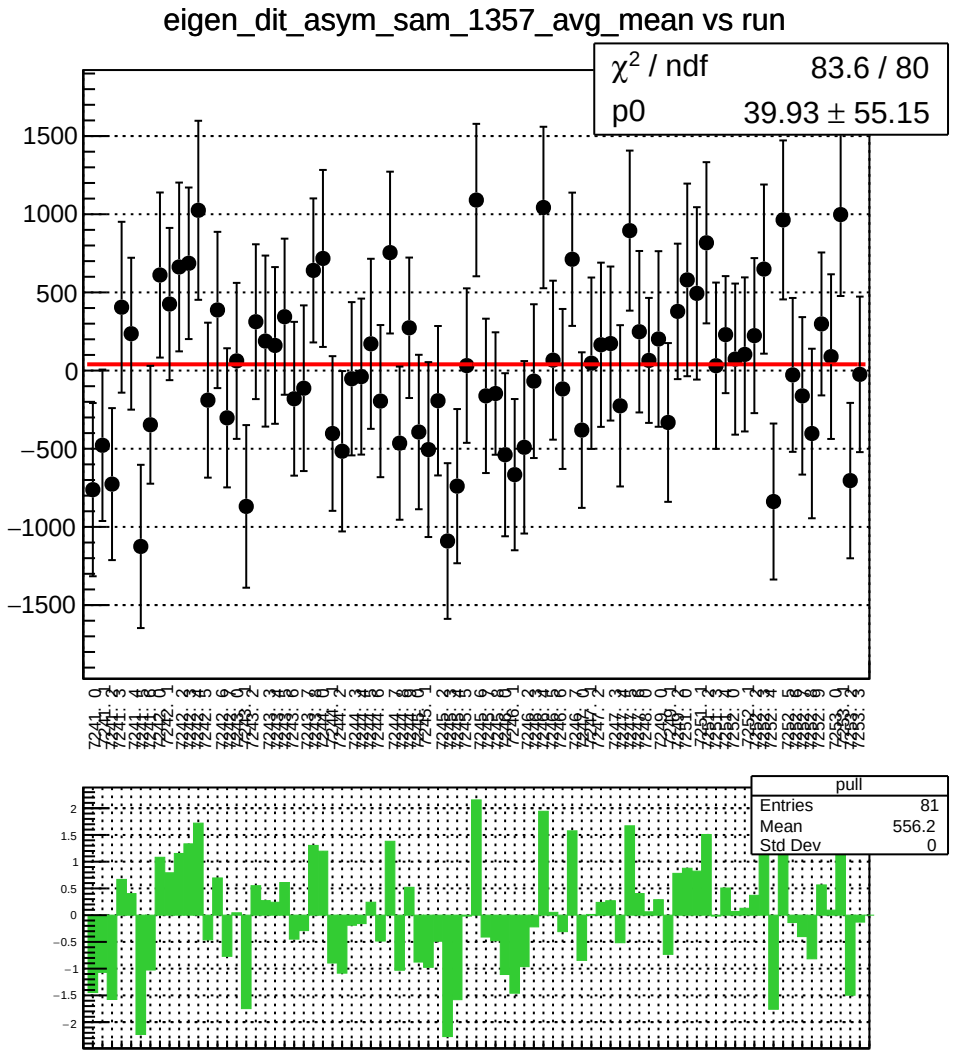

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 83.59 / 80
p0 39.93 ± 55.15
pull
Entries 81
Mean 556.2
Std Dev 0

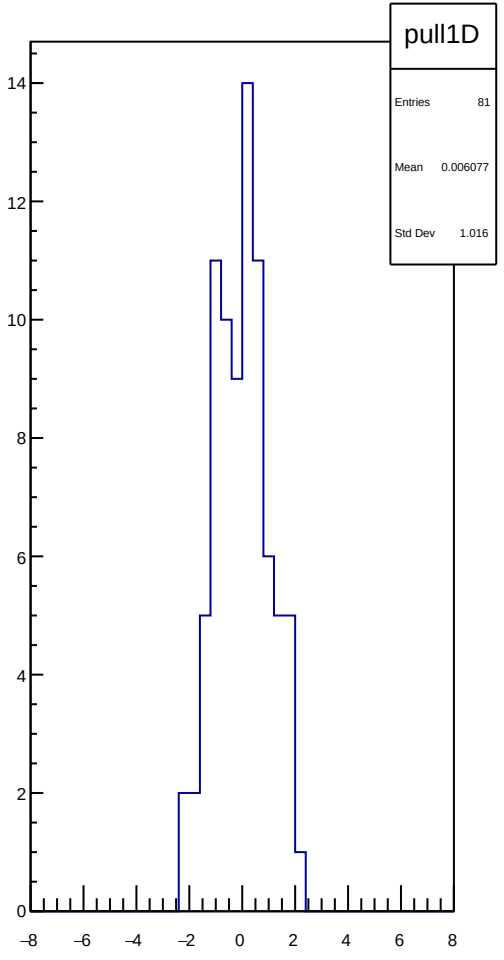

pull1D
Entries 81
Mean 0.006077
Std Dev 1.016

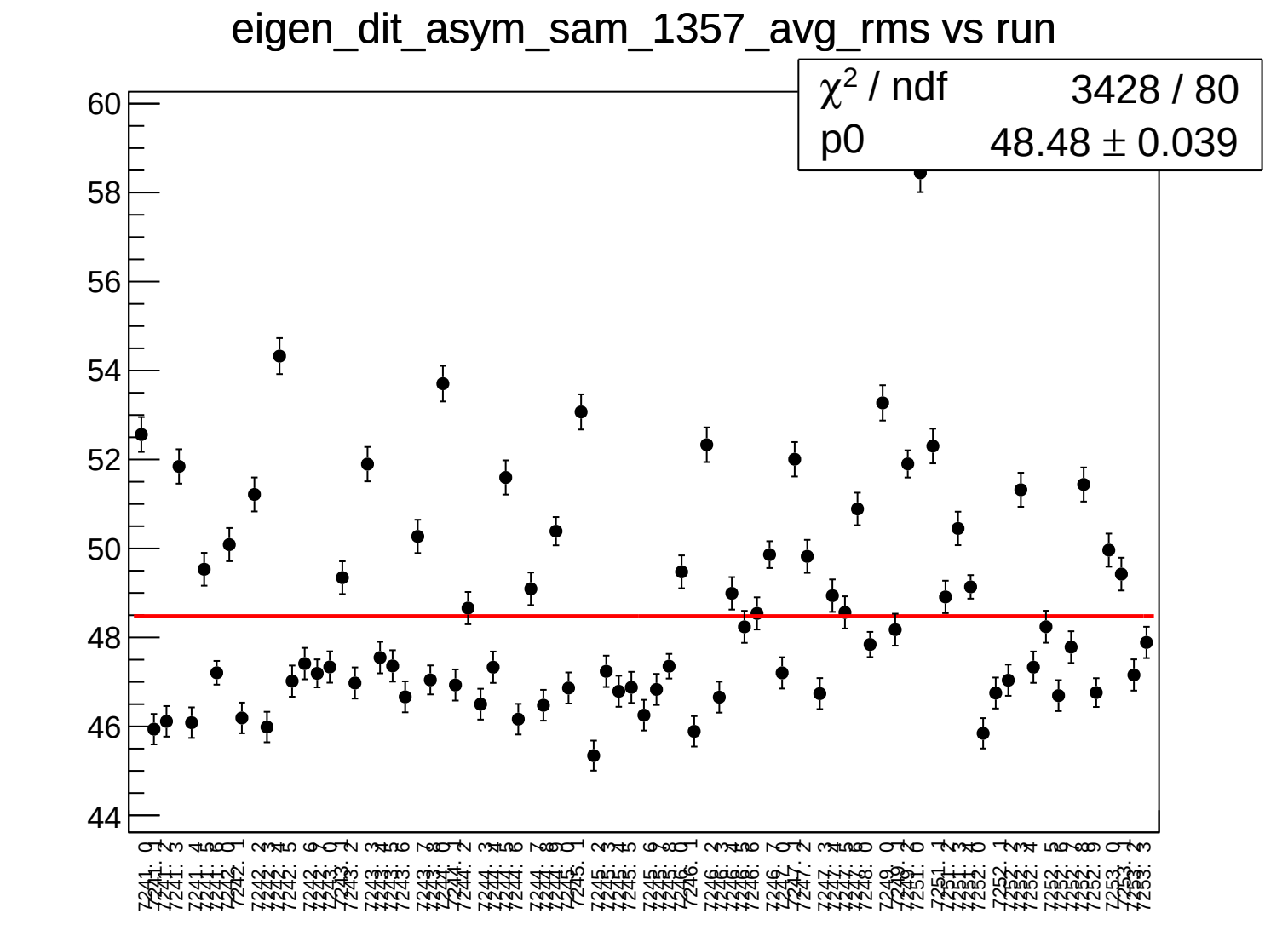

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 3428 / 80
p0 48.48 ± 0.039
60
58
56
54
52
50
48
46
44

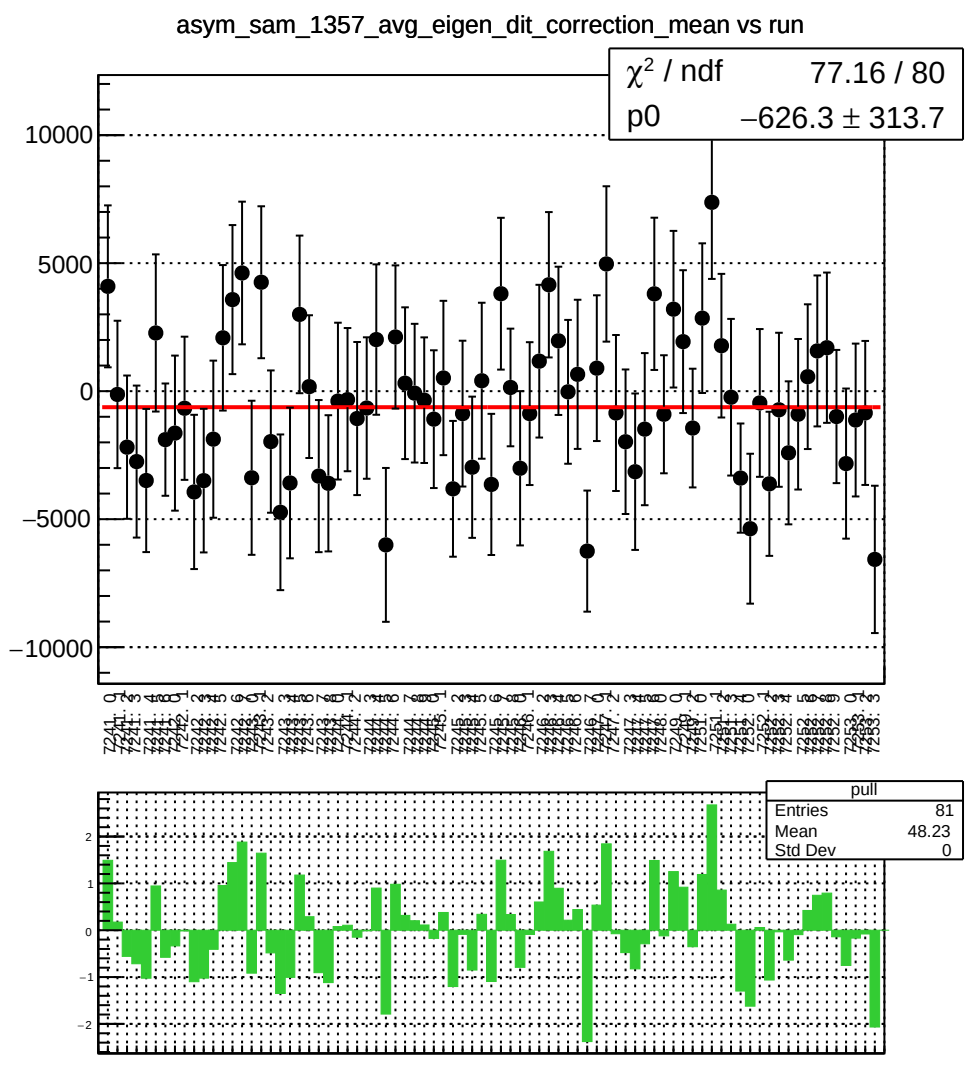

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 77.16 / 80
p0 −626.3 ± 313.7
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 48.23
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 81
Mean 0.02157
Std Dev 0.9757
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

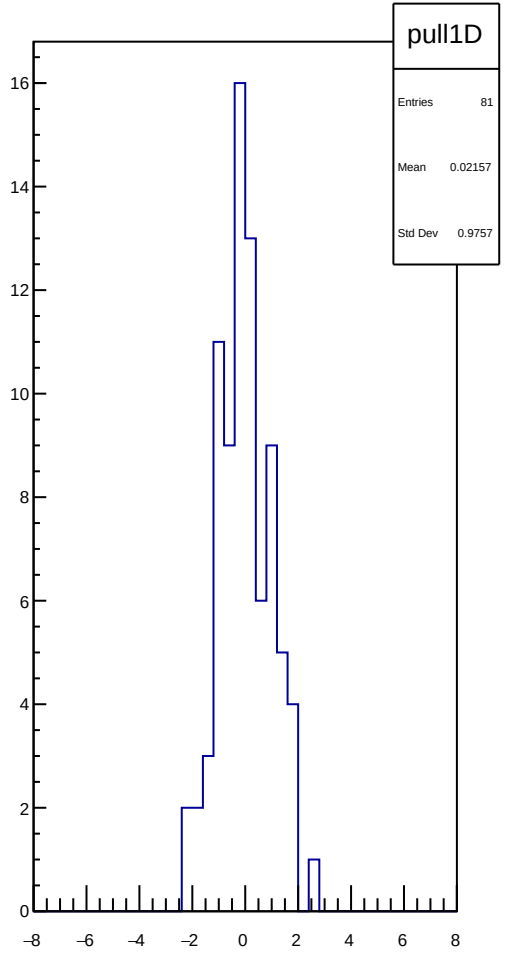

asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 2090 / 80
p0 275.9 ± 0.2218
300
290
280
270
260
250


eigen_dit_asym_sam_1357_avg_mean vs run
χ^2 / ndf 83.6 / 80
p0 39.93 ± 55.15
pull
Entries 81
Mean 556.2
Std Dev 0


pull1D
Entries 81
Mean 0.006077
Std Dev 1.016


eigen_dit_asym_sam_1357_avg_rms vs run
χ² / ndf 3428 / 80
p0 48.48 ± 0.039
60
58
56
54
52
50
48
46
44


asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 77.16 / 80
p0 −626.3 ± 313.7
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 48.23
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 81
Mean 0.02157
Std Dev 0.9757
16
14
12
10
8
6
4
2
0
−8
−6
−4
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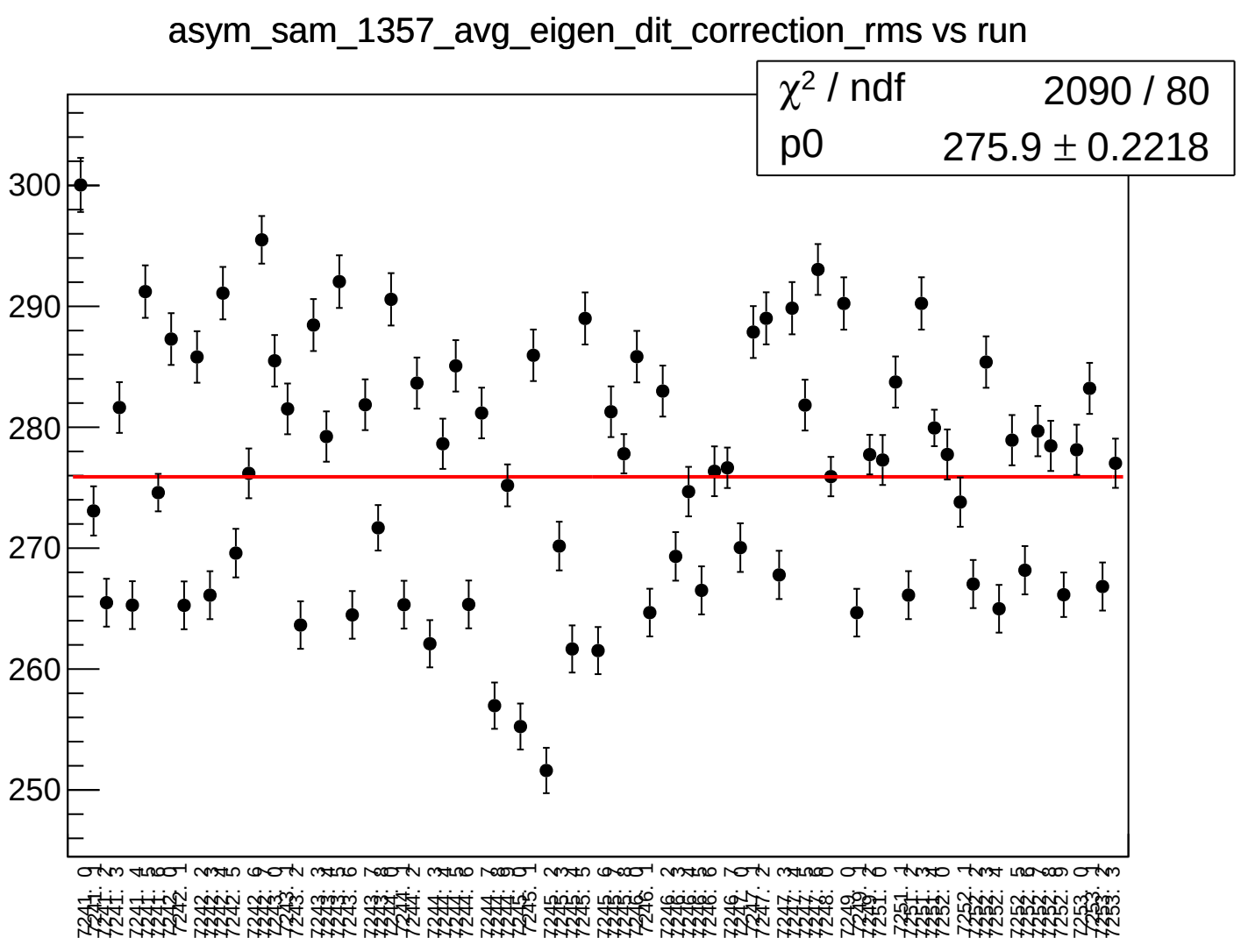
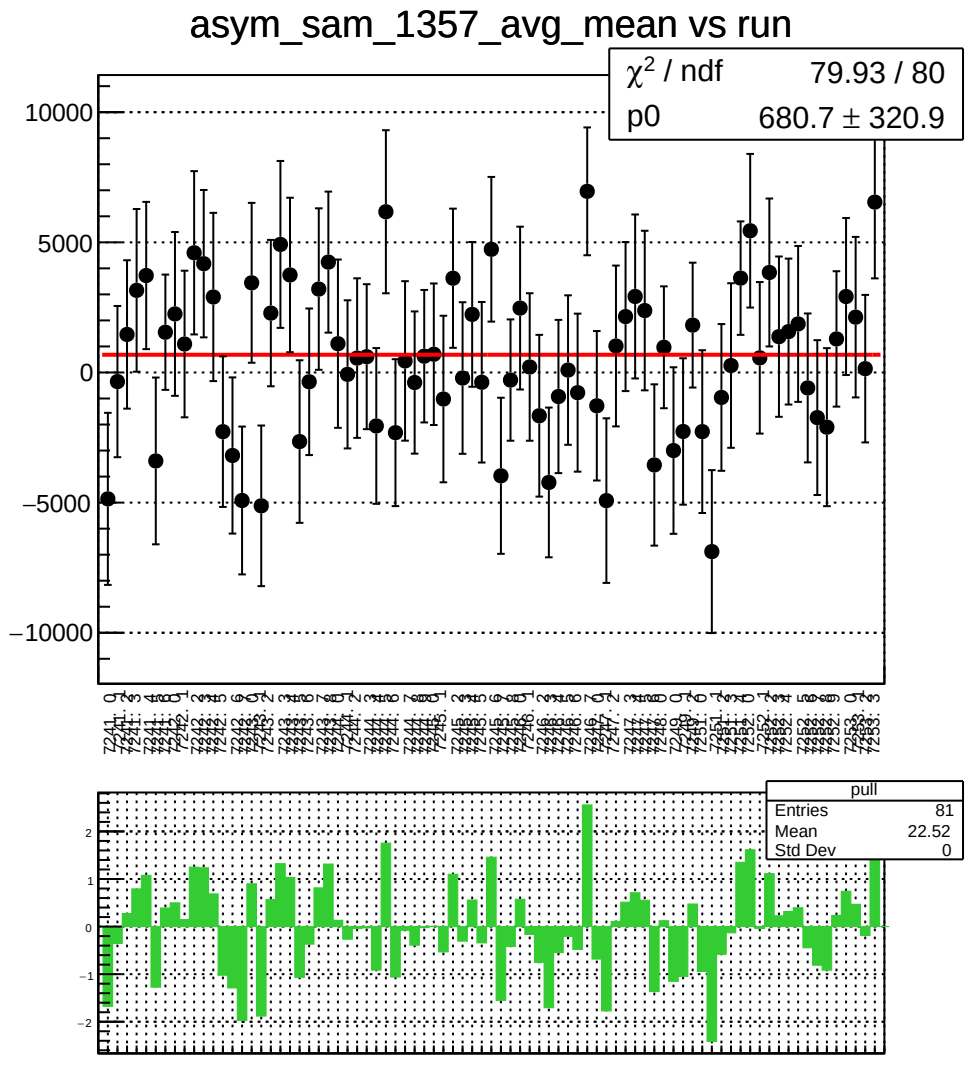
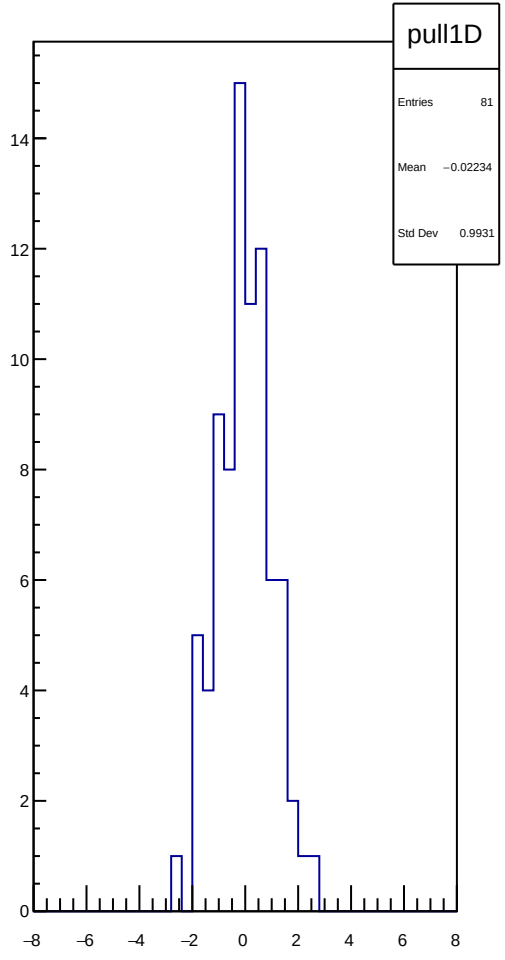
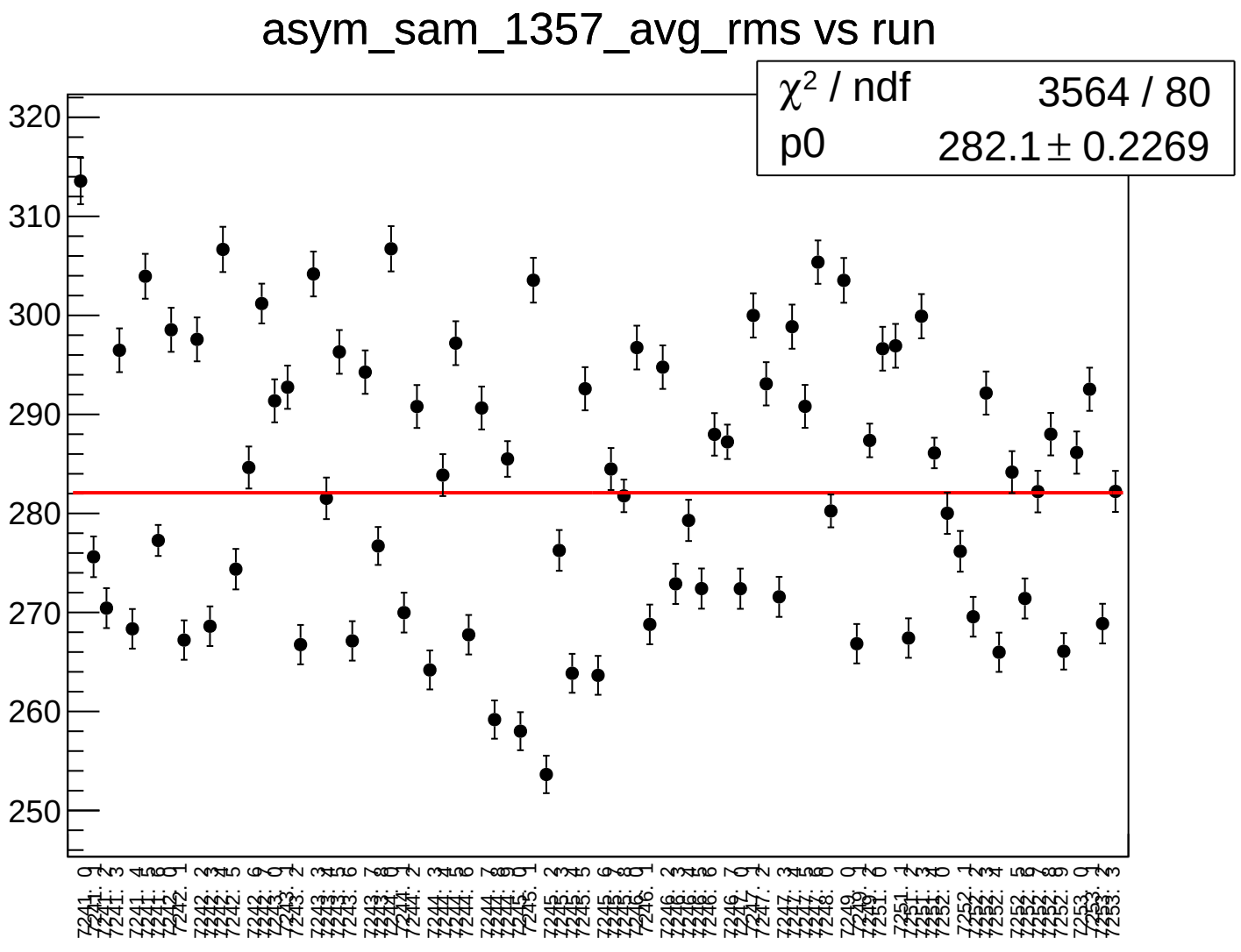
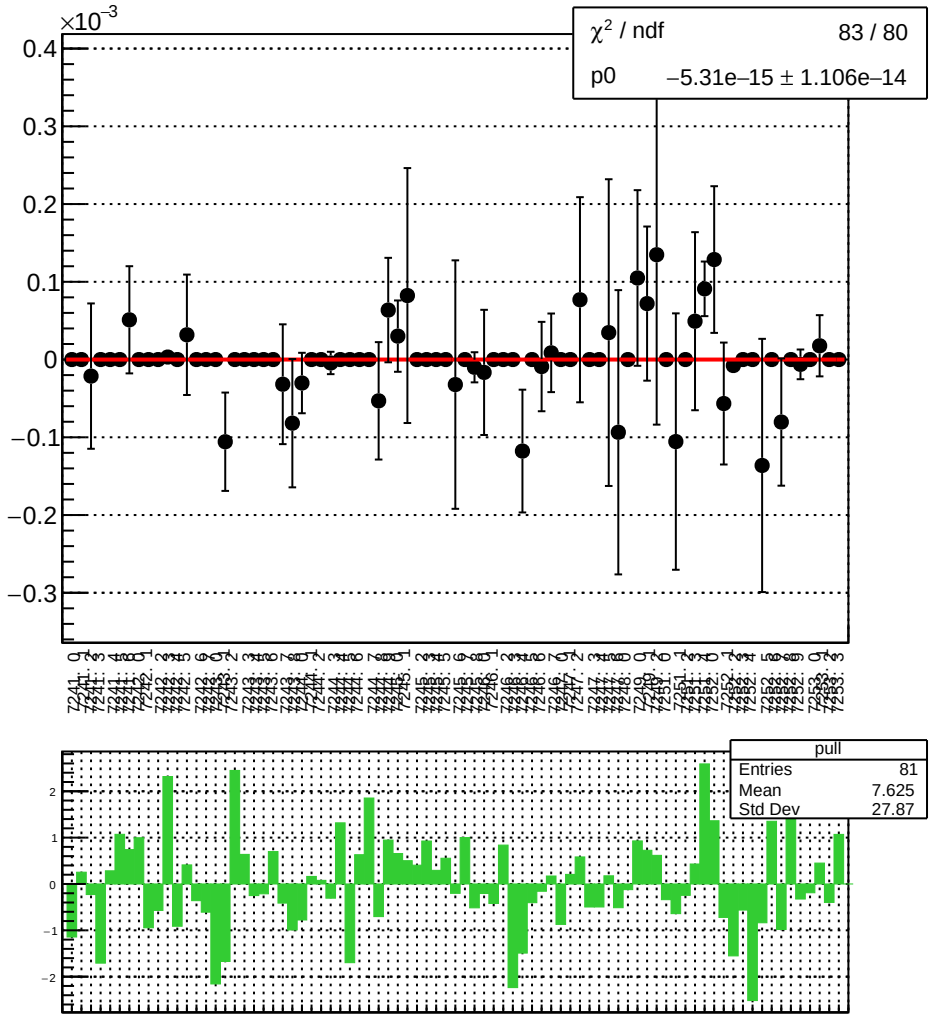
0
2
4
6
8

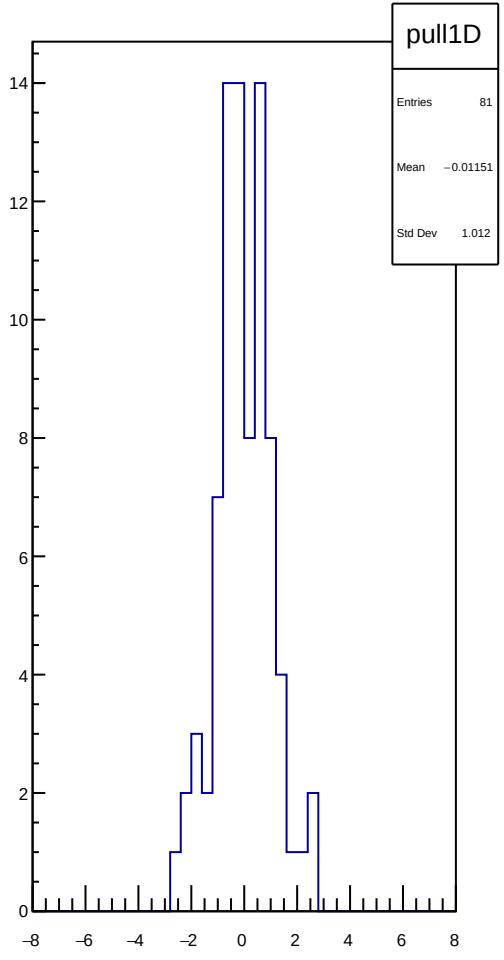

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ² / ndf 2090 / 80
p0 275.9 ± 0.2218
300
290
280
270
260
250

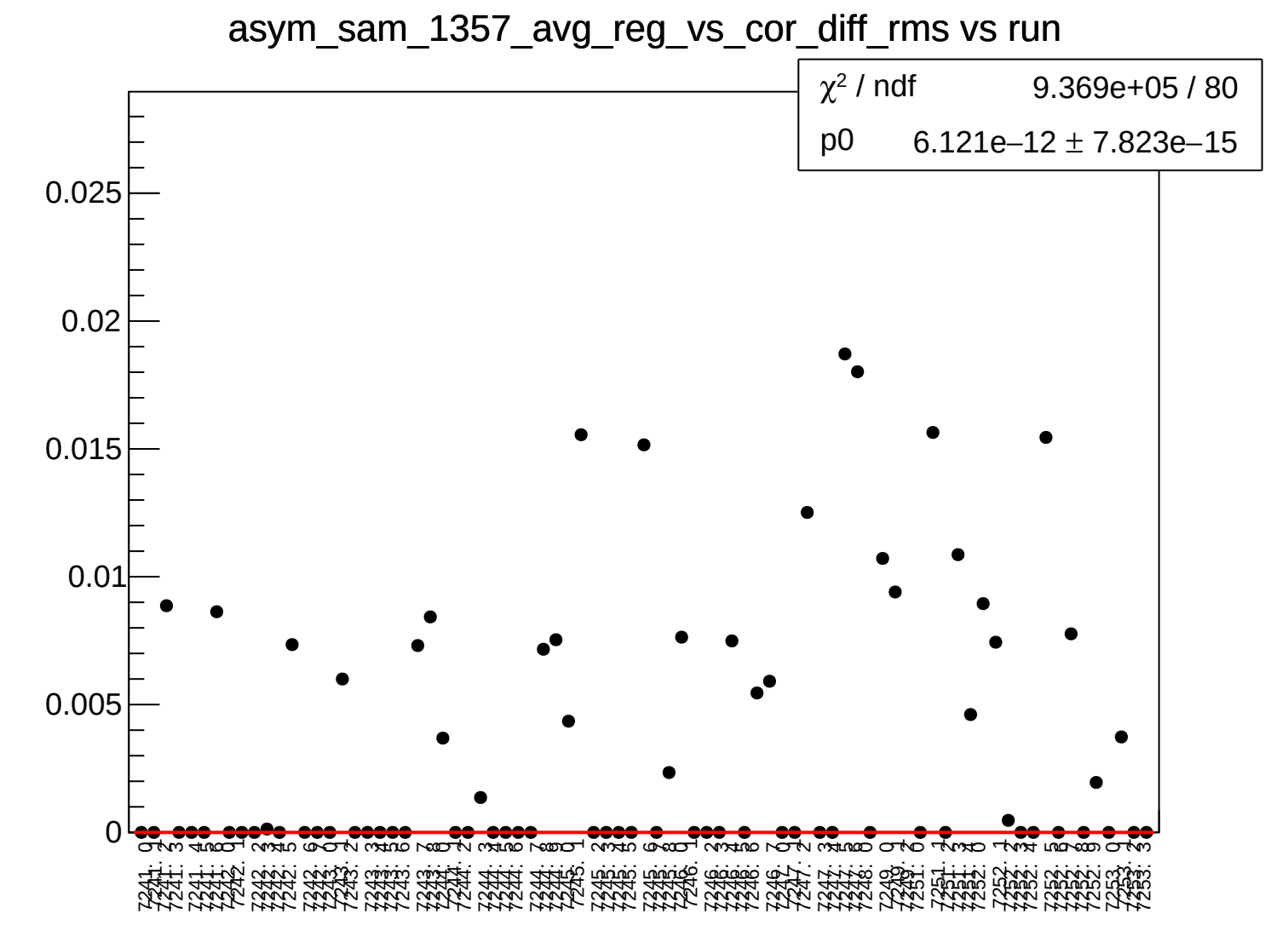

asym_sam_1357_avg_mean vs run
χ² / ndf 79.93 / 80
p0 680.7 ± 320.9
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 22.52
Std Dev 0
2
1
0
−1
−2

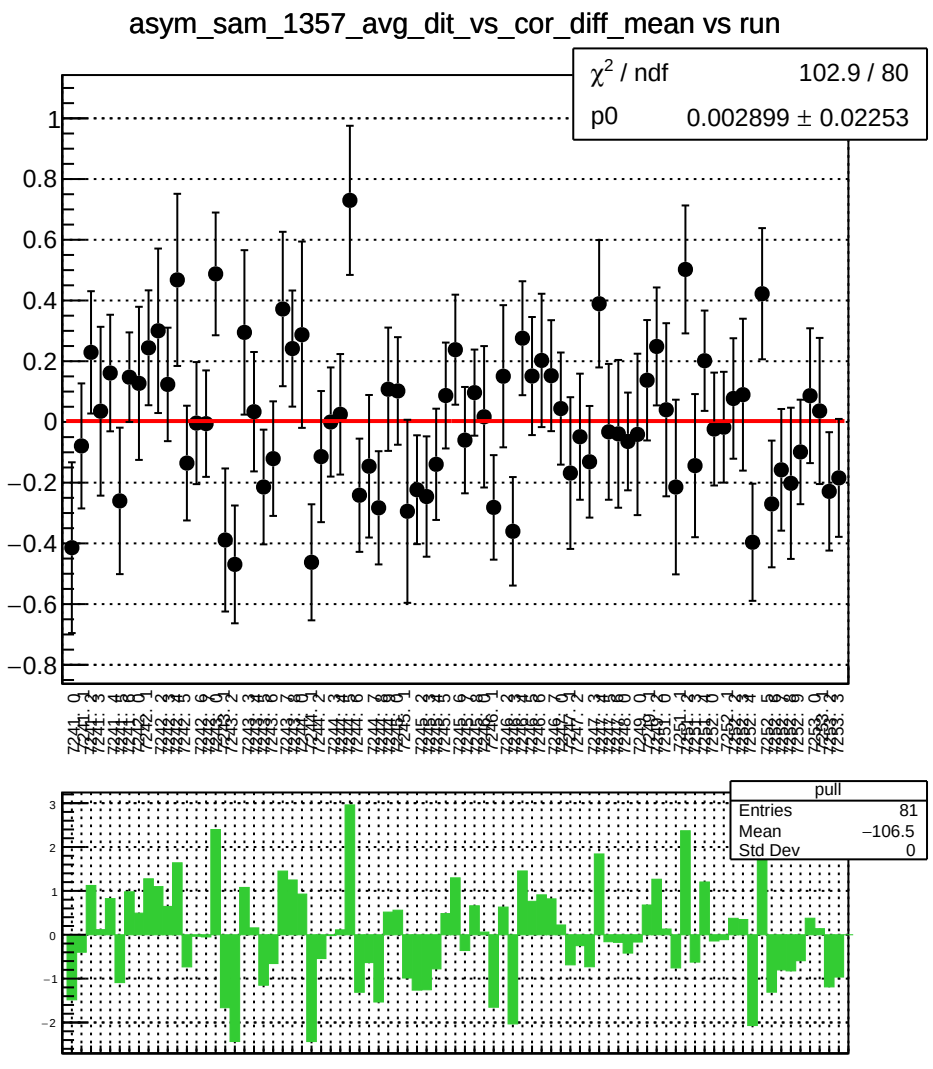

pull1D
Entries 81
Mean −0.02234
Std Dev 0.9931
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

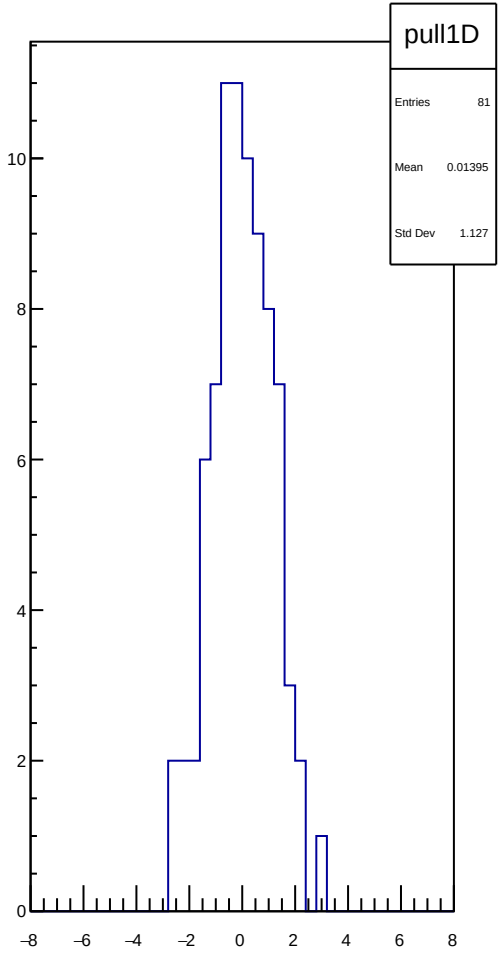

asym_sam_1357_avg_rms vs run
χ² / ndf 3564 / 80
p0 282.1 ± 0.2269
320
310
300
290
280
270
260
250

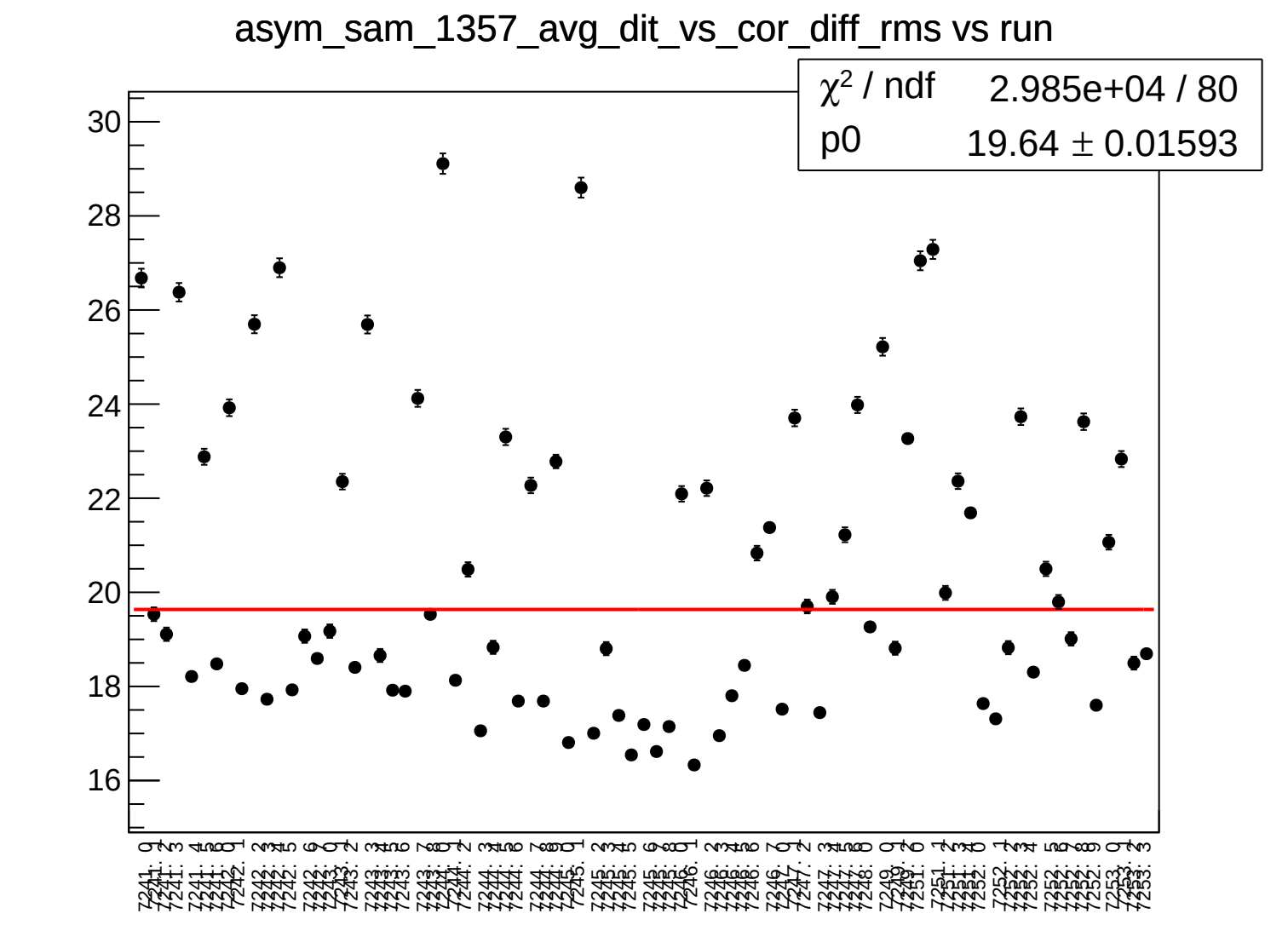

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 83 / 80
p0 −5.31e−15 ± 1.106e−14
pull
Entries 81
Mean 7.625
Std Dev 27.87

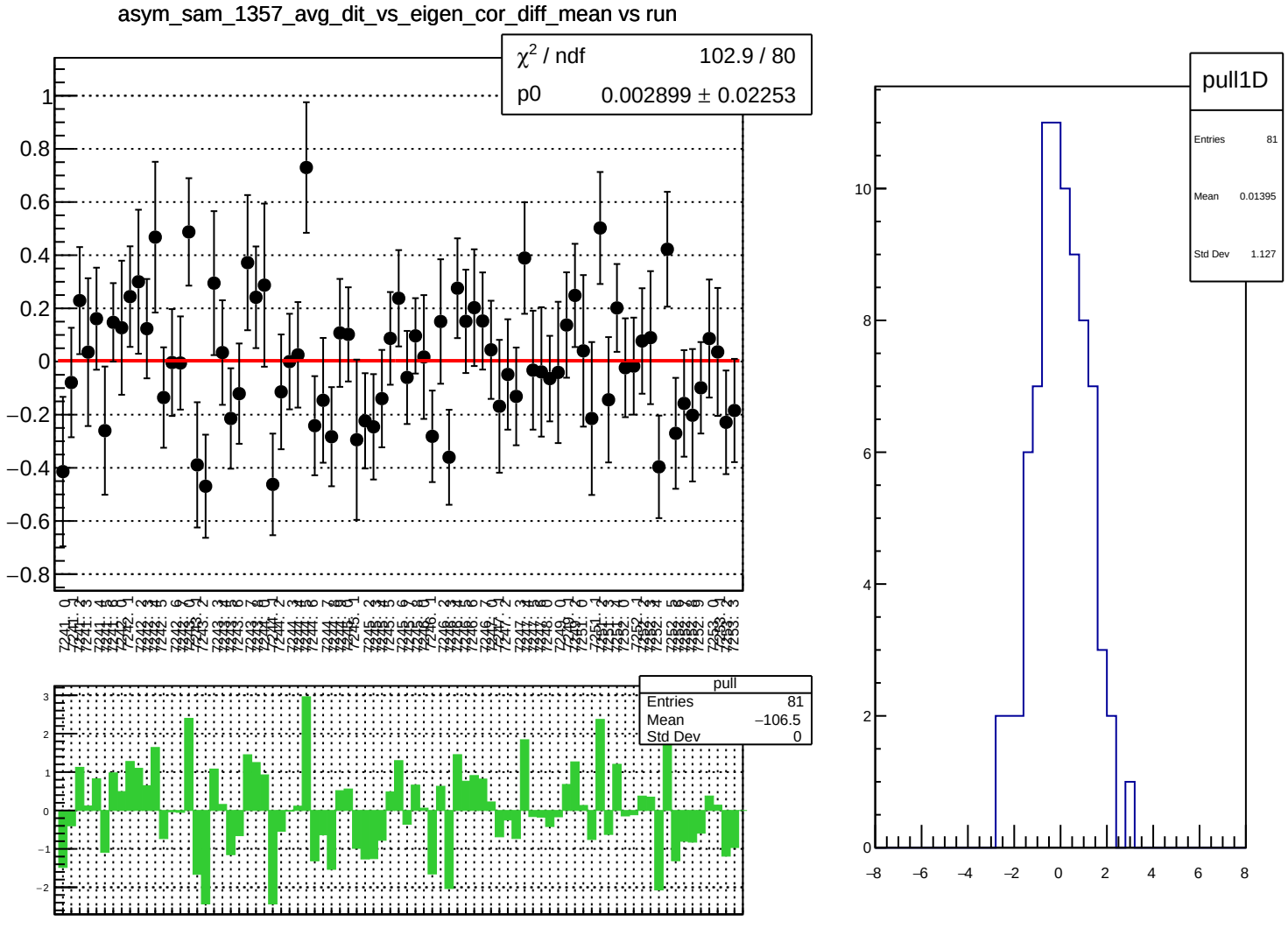

pull1D
Entries 81
Mean −0.01151
Std Dev 1.012

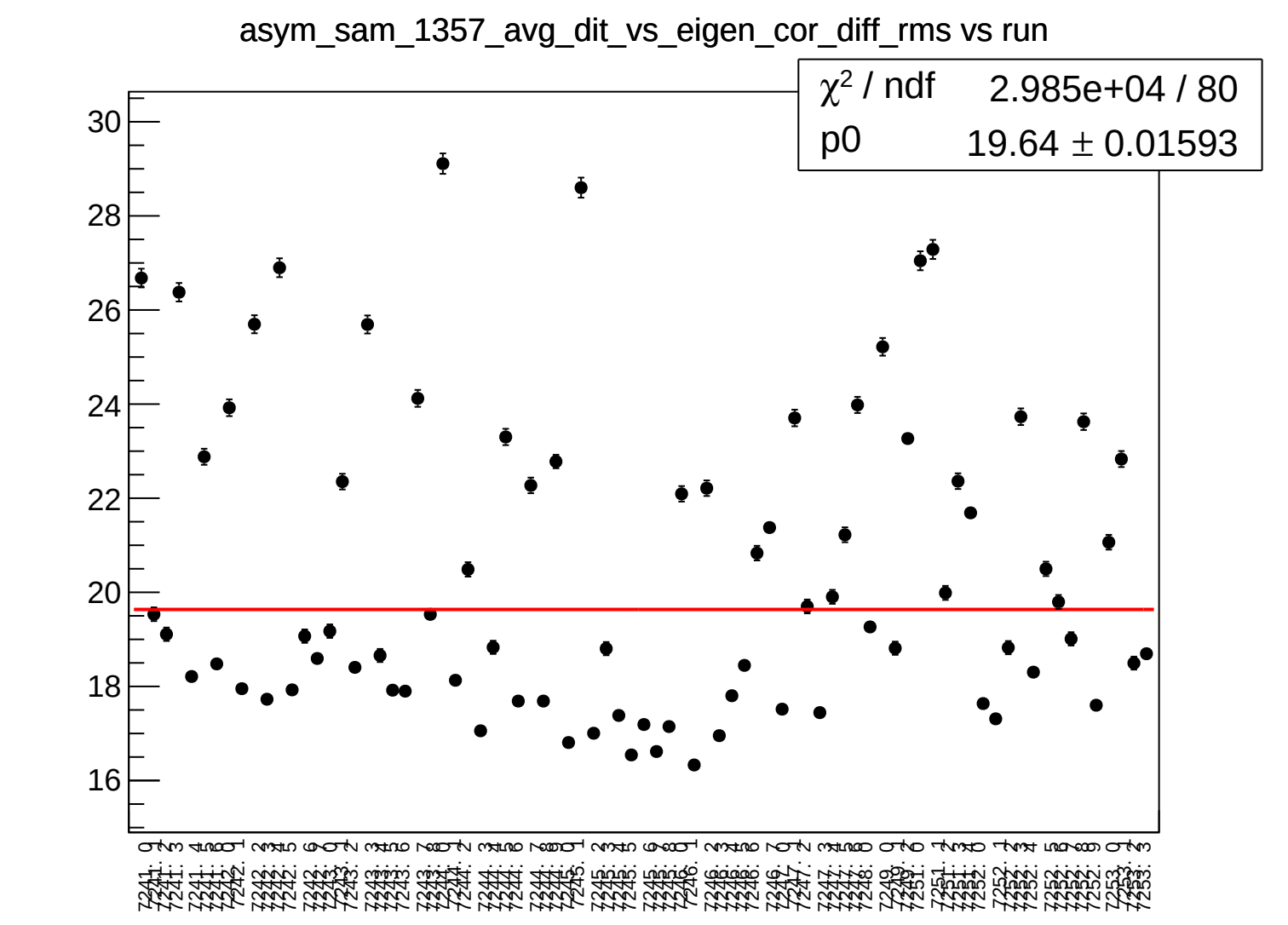

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.369e+05 / 80
p0 6.121e−12 ± 7.823e−15
0.025
0.02
0.015
0.01
0.005
0

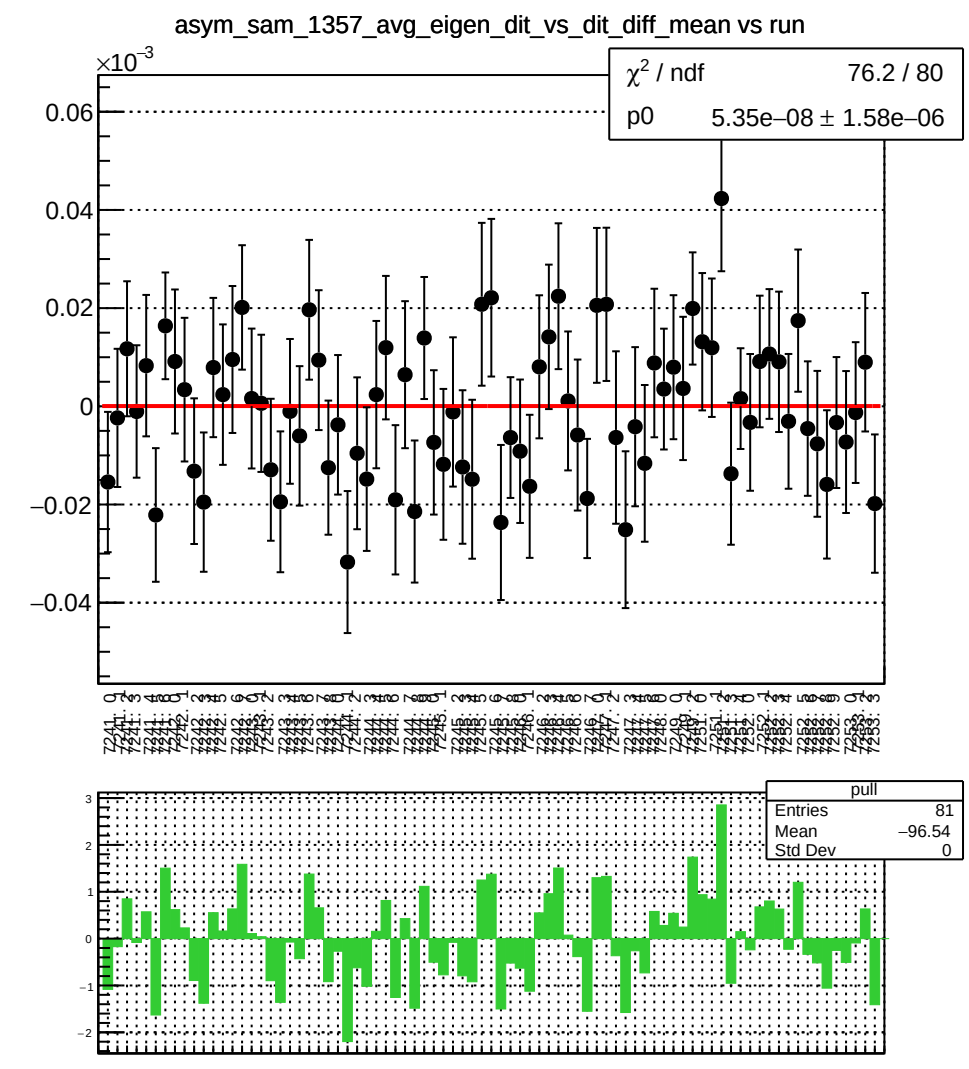

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 102.9 / 80
p0 0.002899 ± 0.02253
pull
Entries 81
Mean −106.5
Std Dev 0

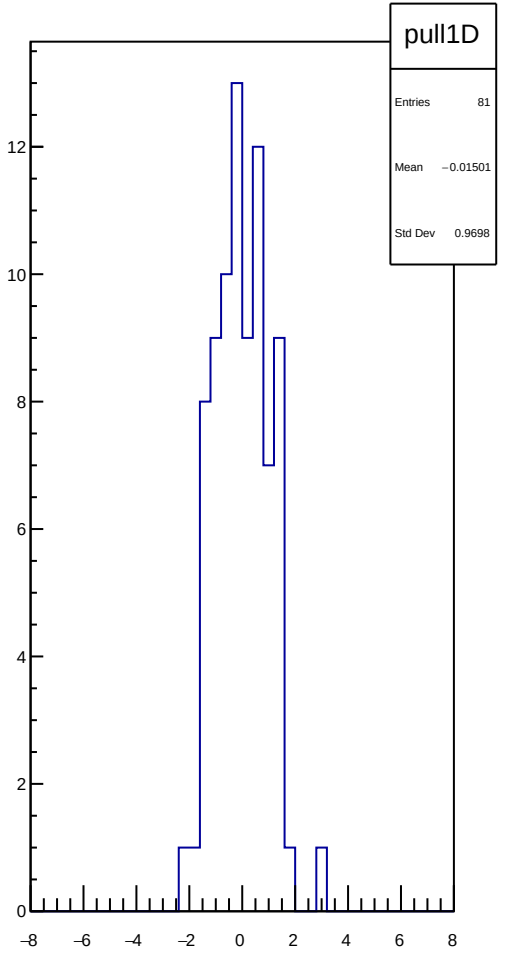

pull1D
Entries 81
Mean 0.01395
Std Dev 1.127

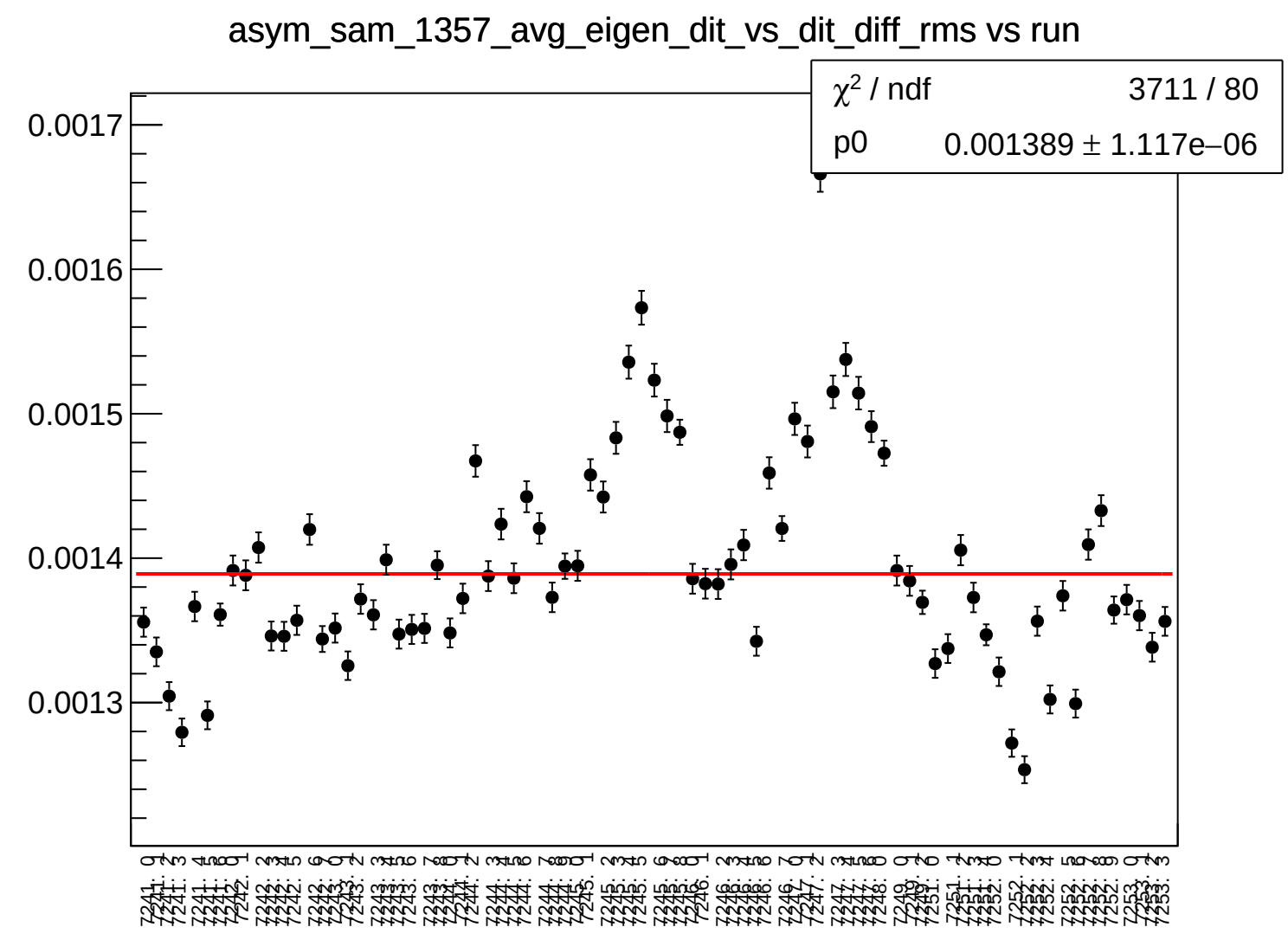

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.985e+04 / 80
p0 19.64 ± 0.01593
30
28
26
24
22
20
18
16

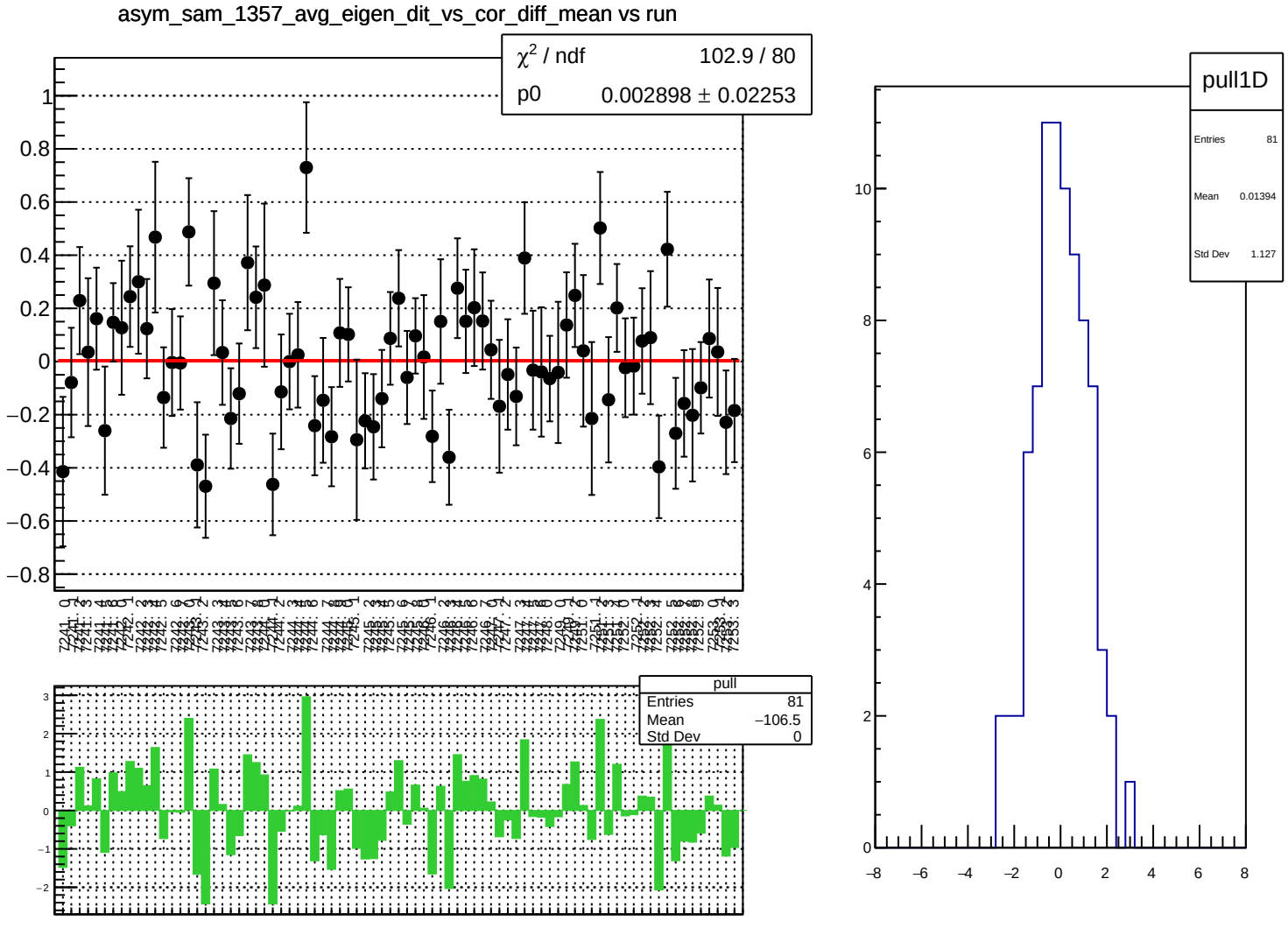

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.9 / 80
p0 0.002899 ± 0.02253
pull
Entries 81
Mean −106.5
Std Dev 0
pull1D
Entries 81
Mean 0.01395
Std Dev 1.127

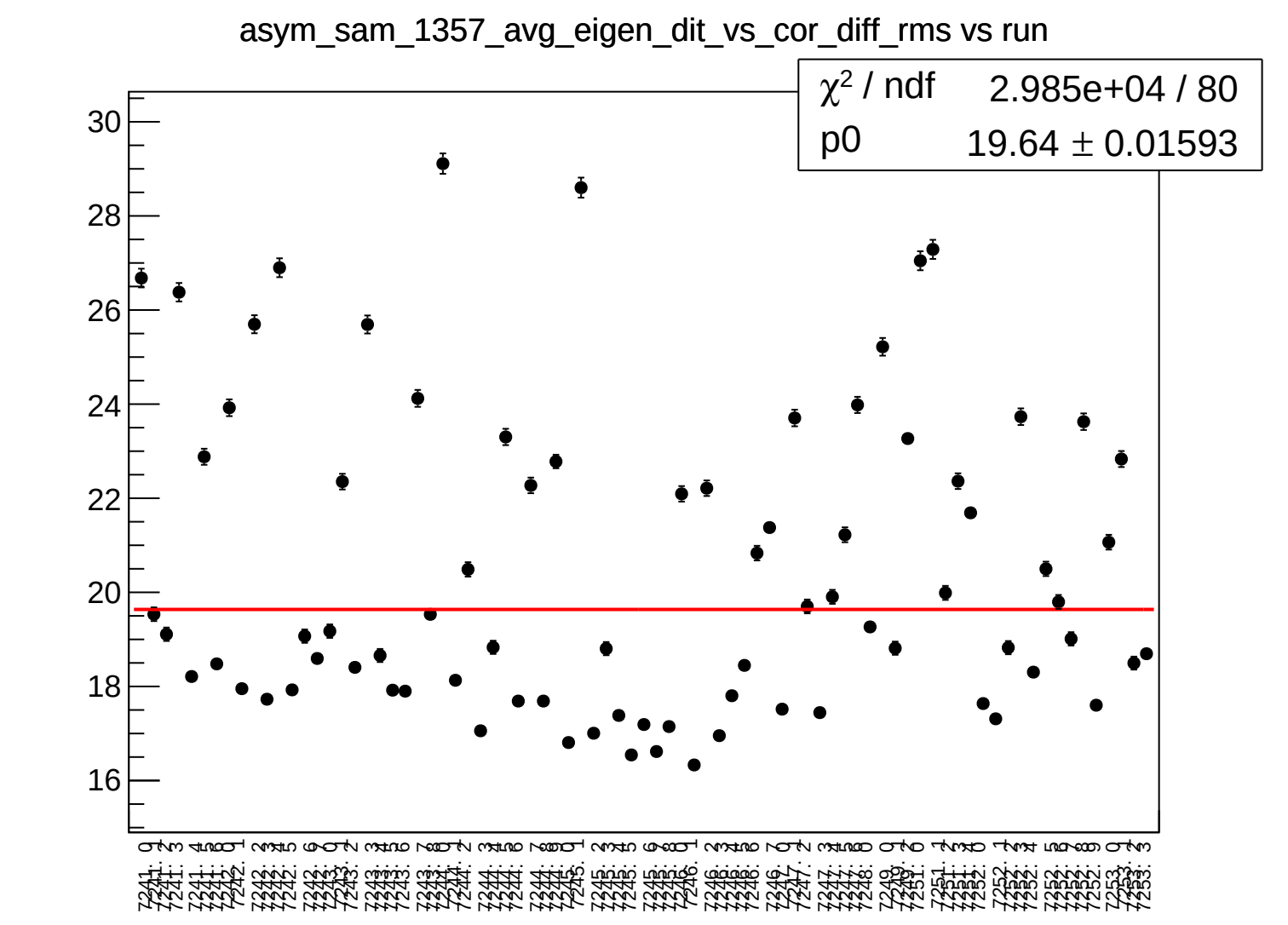

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.985e+04 / 80
p0 19.64 ± 0.01593
30
28
26
24
22
20
18
16

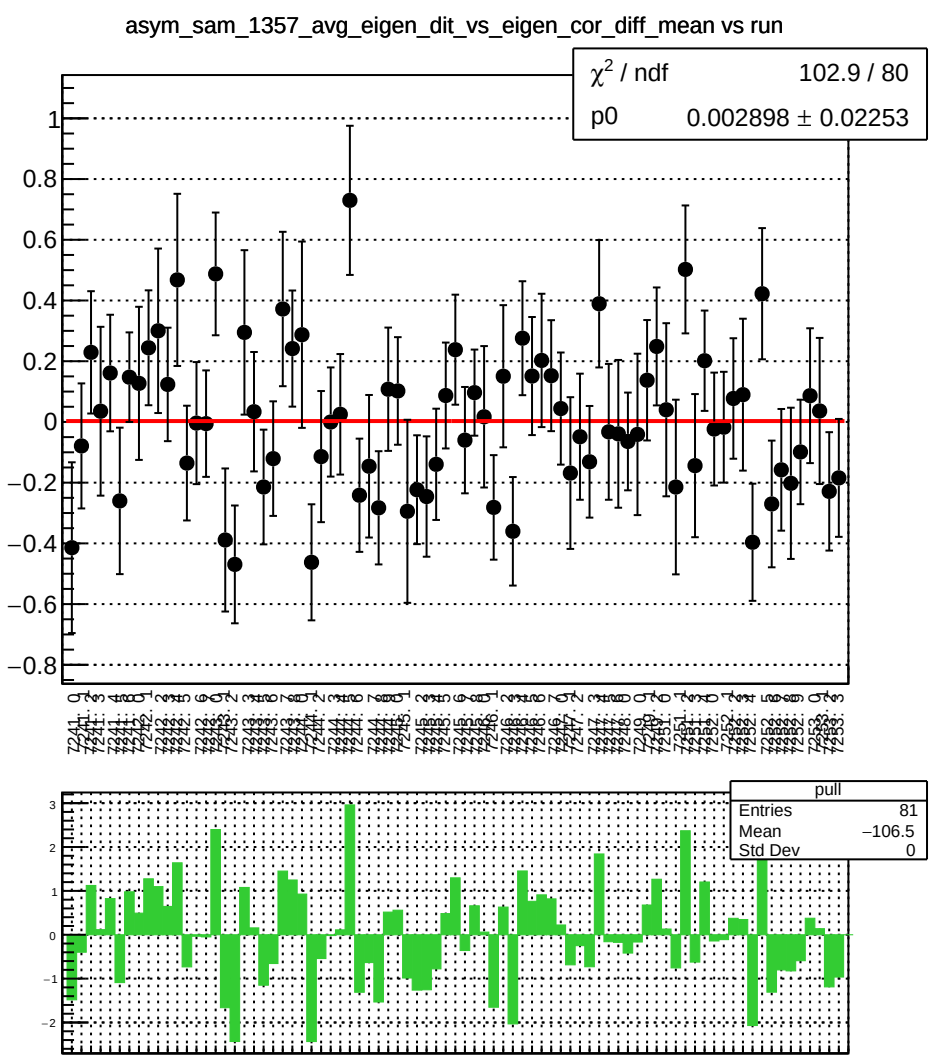

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.2 / 80
p0 5.35e−08 ± 1.58e−06
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 81
Mean −96.54
Std Dev 0
3
2
1
0
−1
−2

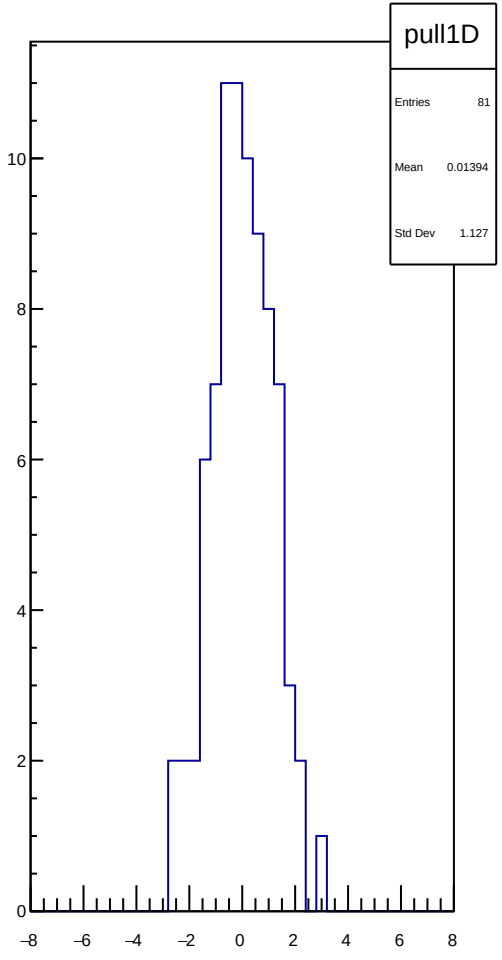

pull1D
Entries 81
Mean −0.01501
Std Dev 0.9698
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

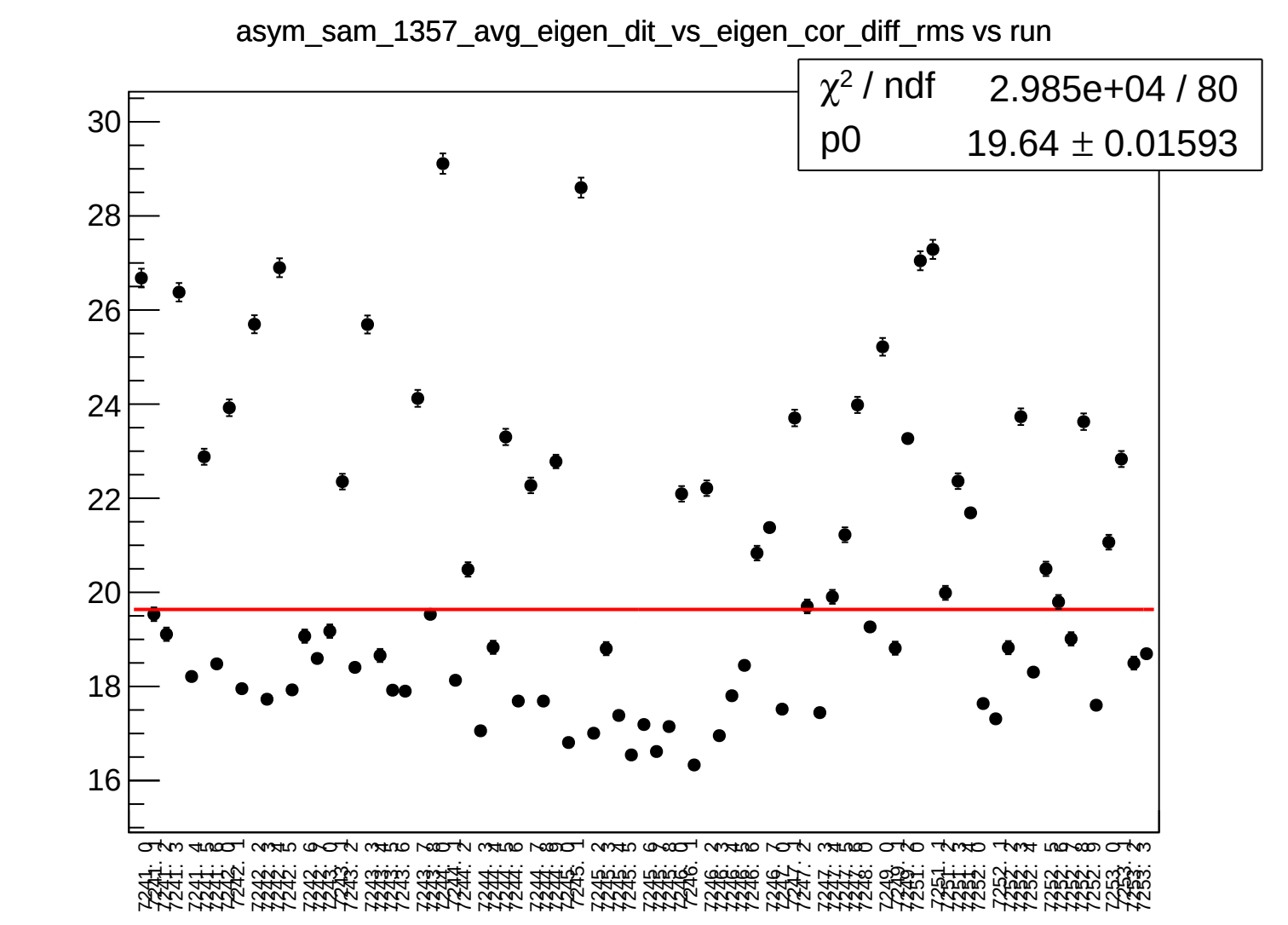

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3711 / 80
p0 0.001389 ± 1.117e−06
0.0017
0.0016
0.0015
0.0014
0.0013

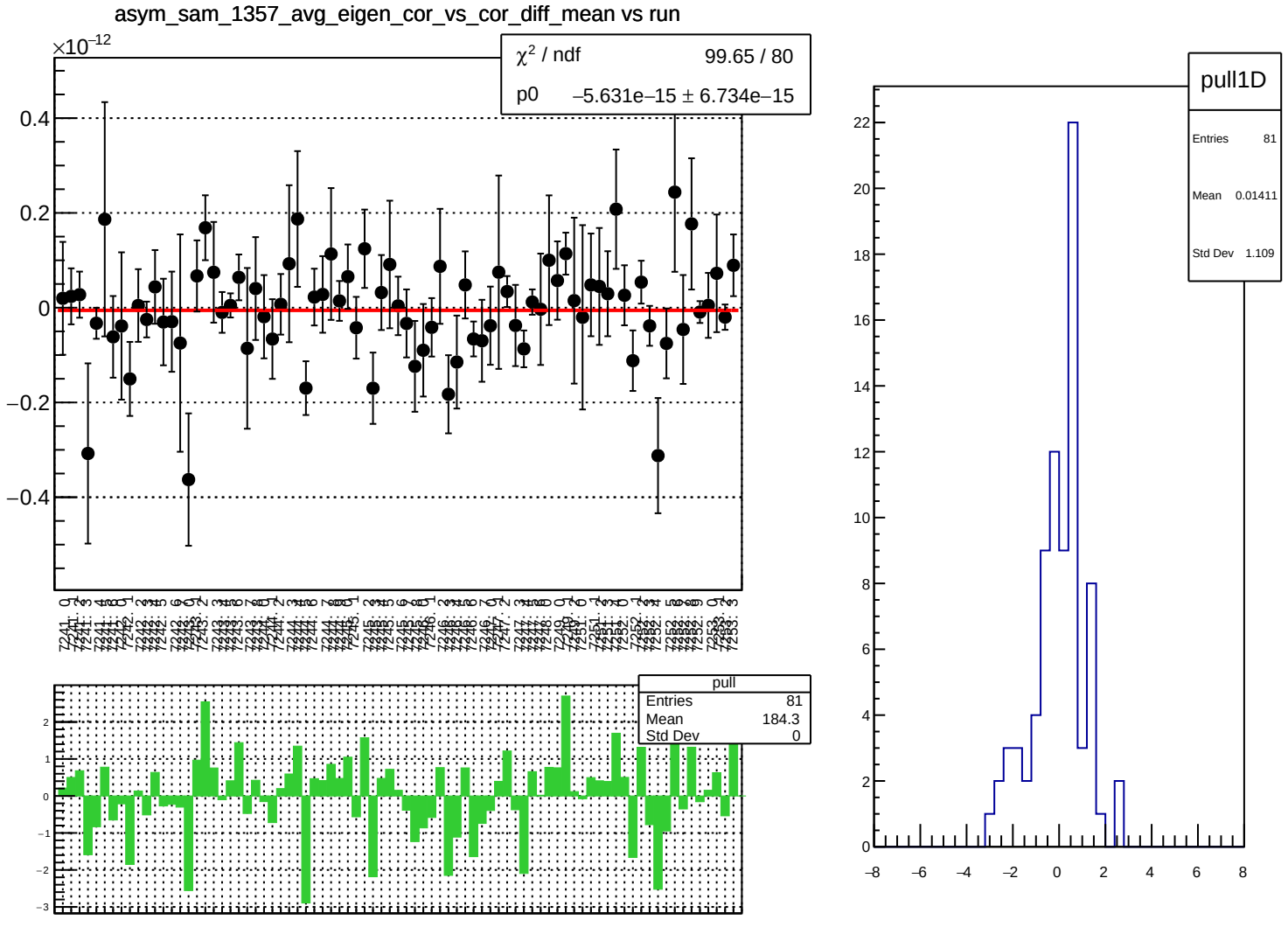

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 102.9 / 80
p0 0.002898 ± 0.02253
pull
Entries 81
Mean −106.5
Std Dev 0
pull1D
Entries 81
Mean 0.01394
Std Dev 1.127

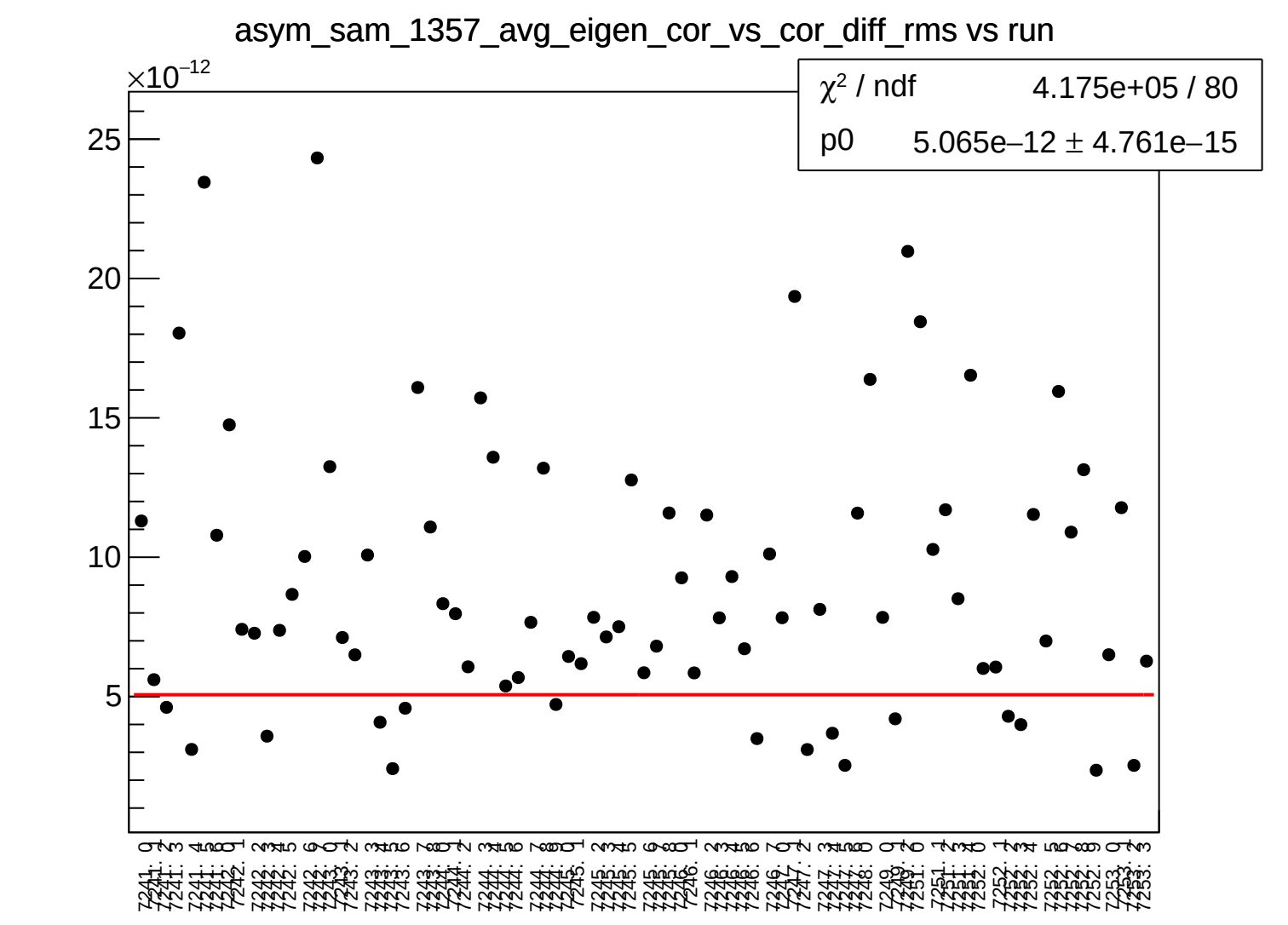

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.985e+04 / 80
p0 19.64 ± 0.01593
30
28
26
24
22
20
18
16

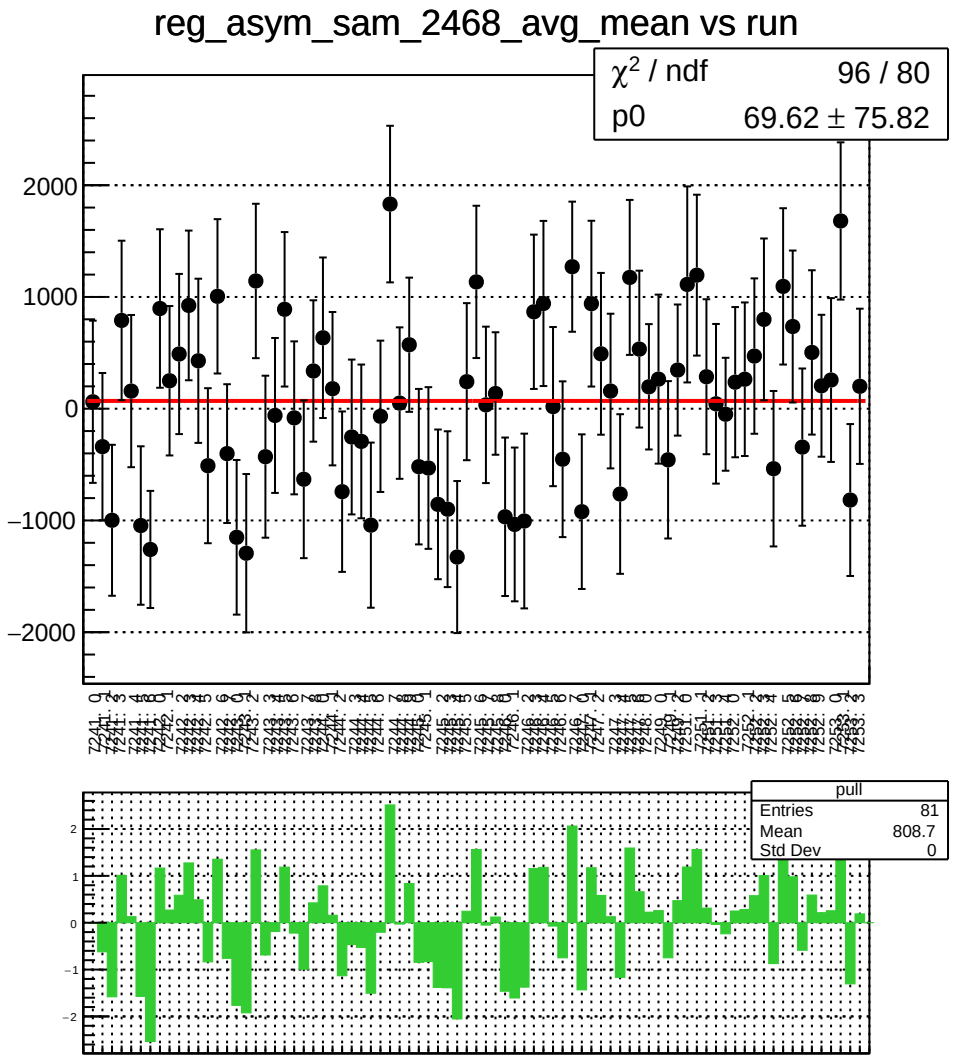

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.9 / 80
p0 0.002898 ± 0.02253
pull
Entries 81
Mean −106.5
Std Dev 0

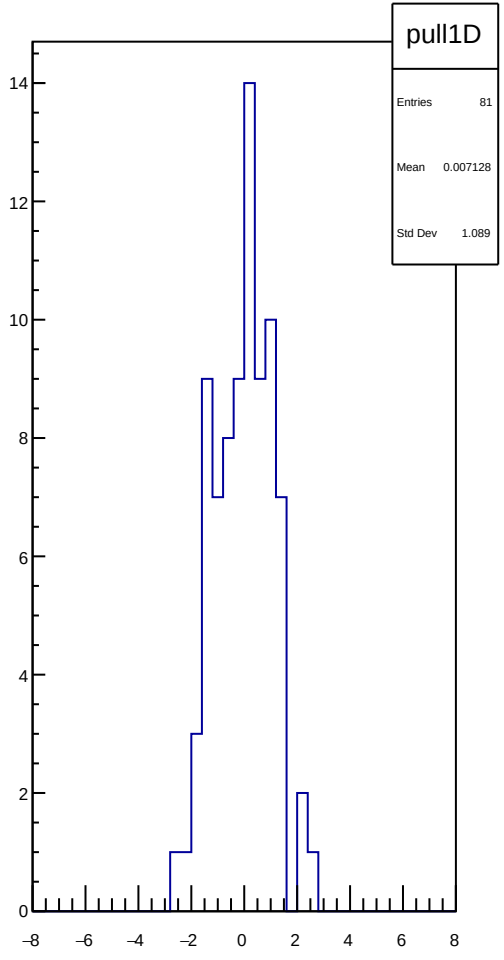

pull1D
Entries 81
Mean 0.01394
Std Dev 1.127

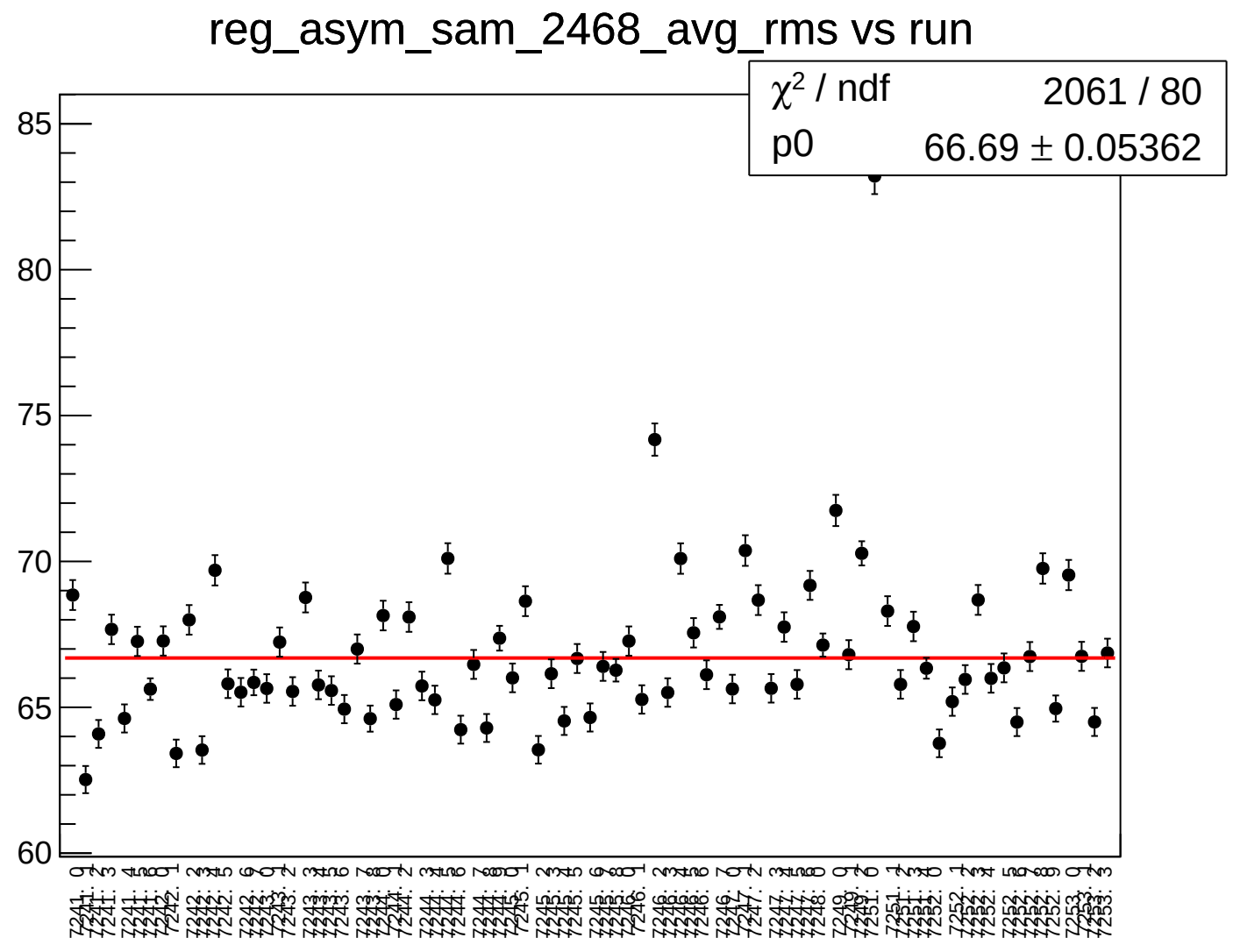

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.985e+04 / 80
p0 19.64 ± 0.01593
30
28
26
24
22
20
18
16

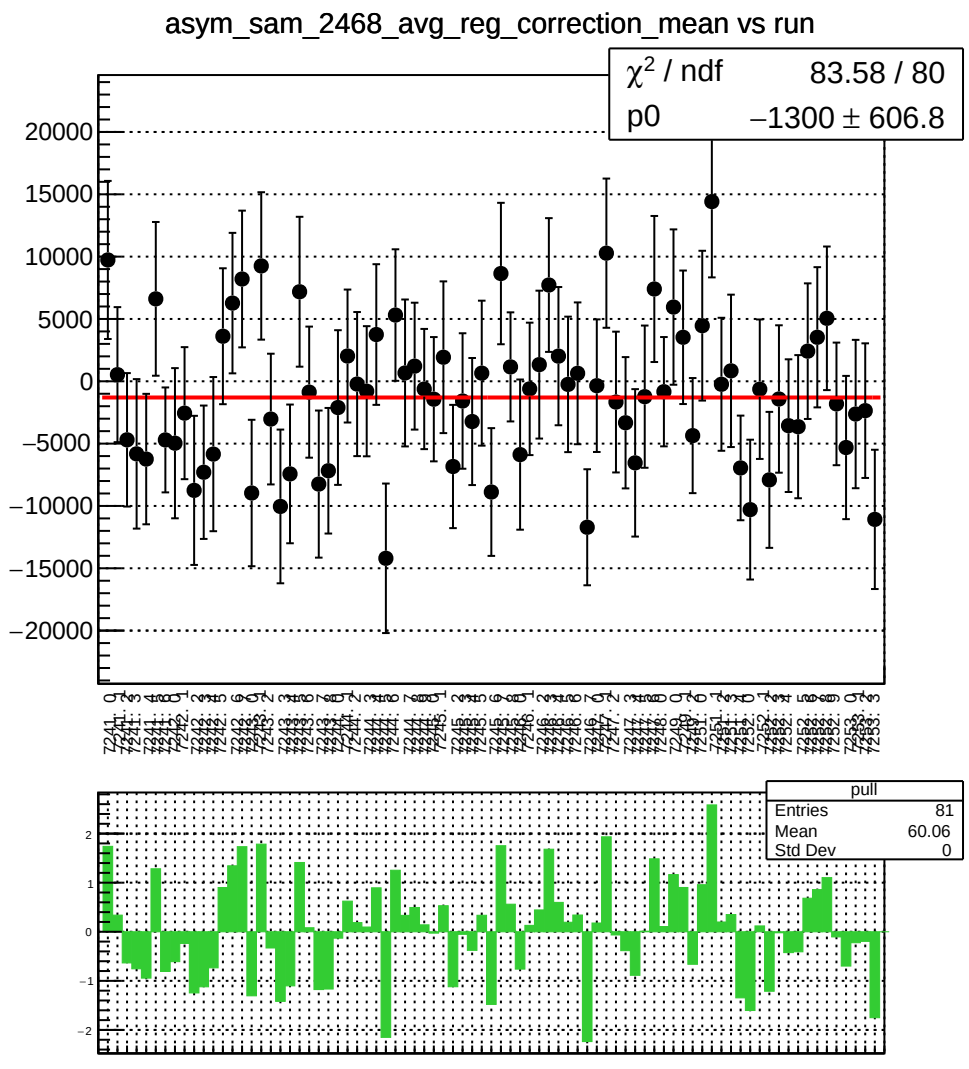

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 99.65 / 80
p0 −5.631e−15 ± 6.734e−15
0.4
0.2
0
−0.2
−0.4
pull
Entries 81
Mean 184.3
Std Dev 0
pull1D
Entries 81
Mean 0.01411
Std Dev 1.109
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

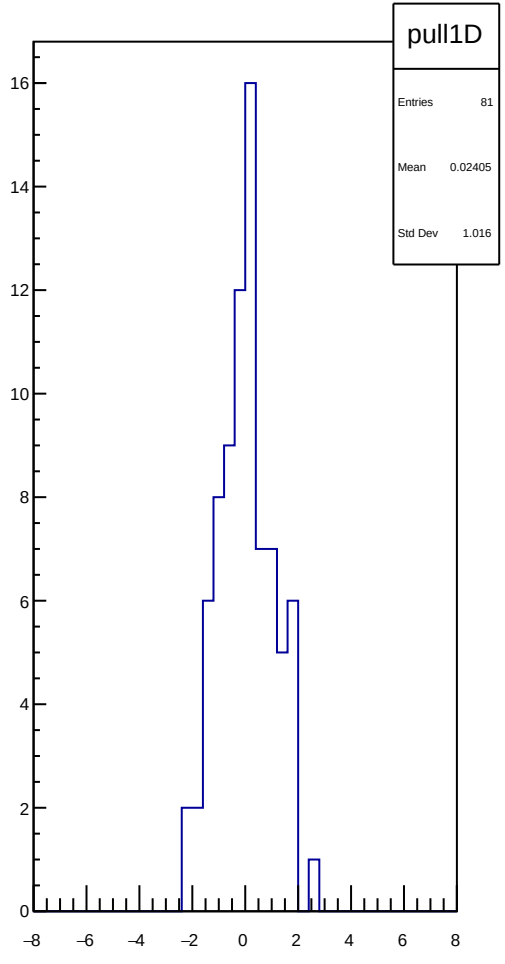

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.175e+05 / 80
p0 5.065e−12 ± 4.761e−15
25
20
15
10
5

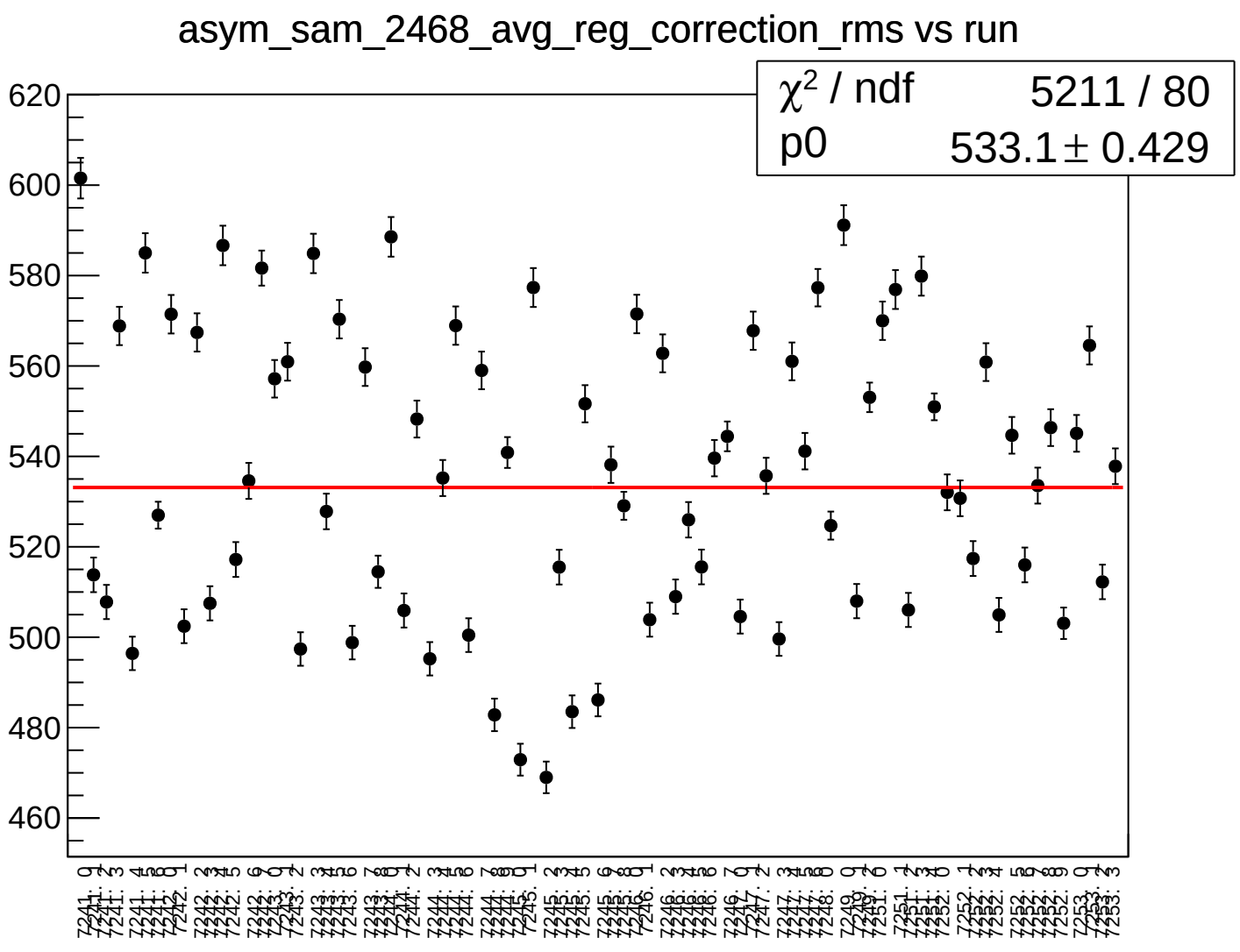

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 96 / 80
p0 69.62 ± 75.82
2000
1000
0
−1000
−2000
pull
Entries 81
Mean 808.7
Std Dev 0
2
1
0
−1
−2

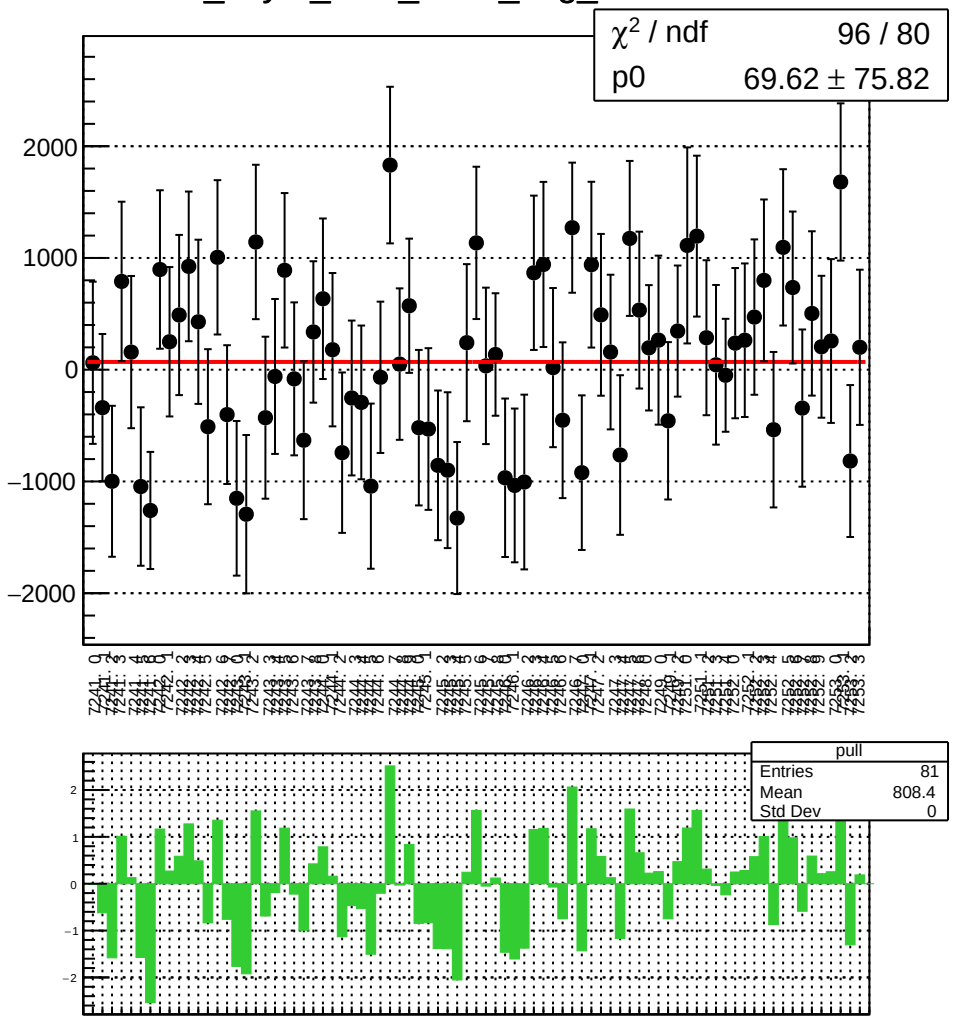

pull1D
Entries 81
Mean 0.007128
Std Dev 1.089
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

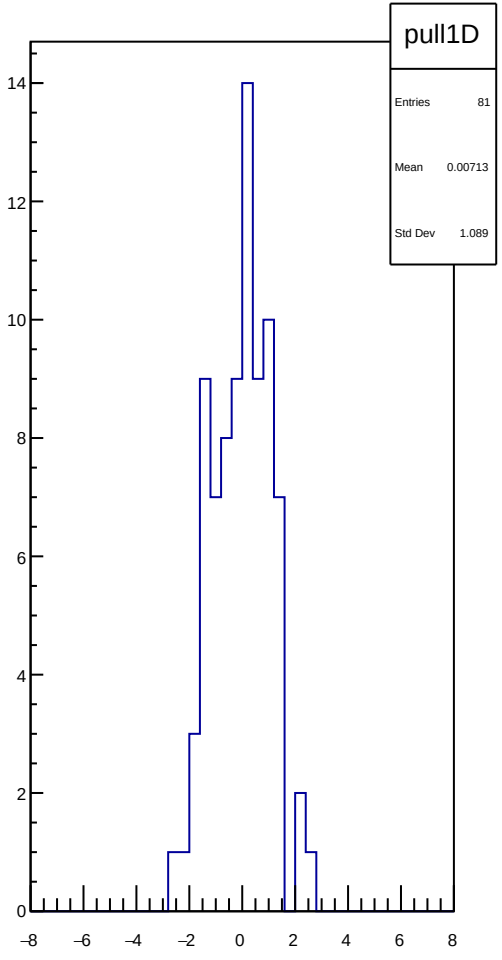

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 2061 / 80
p0 66.69 ± 0.05362
85
80
75
70
65
60

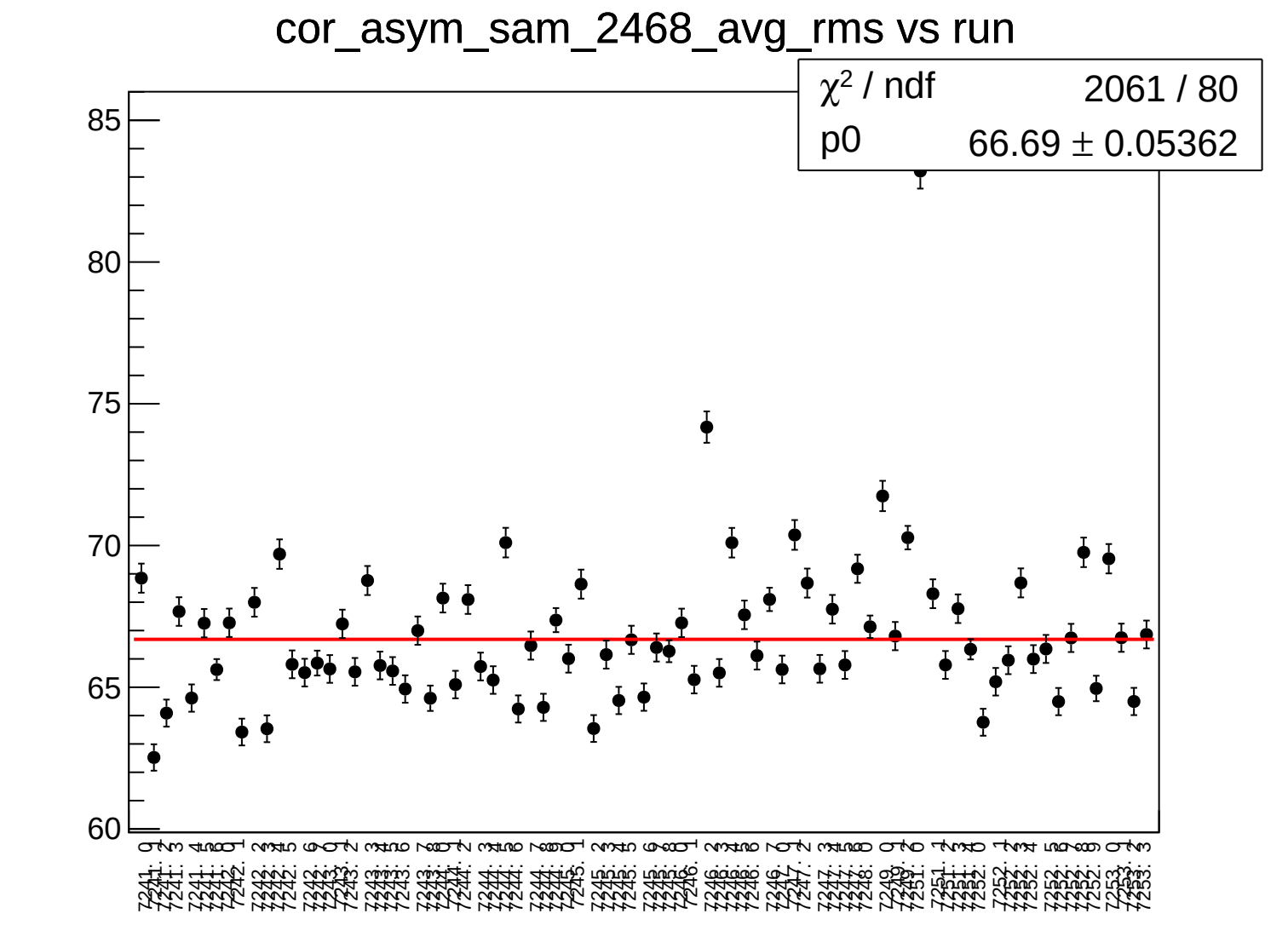

asym_sam_2468_avg_reg_correction_mean vs run
χ² / ndf 83.58 / 80
p0 −1300 ± 606.8
pull
Entries 81
Mean 60.06
Std Dev 0

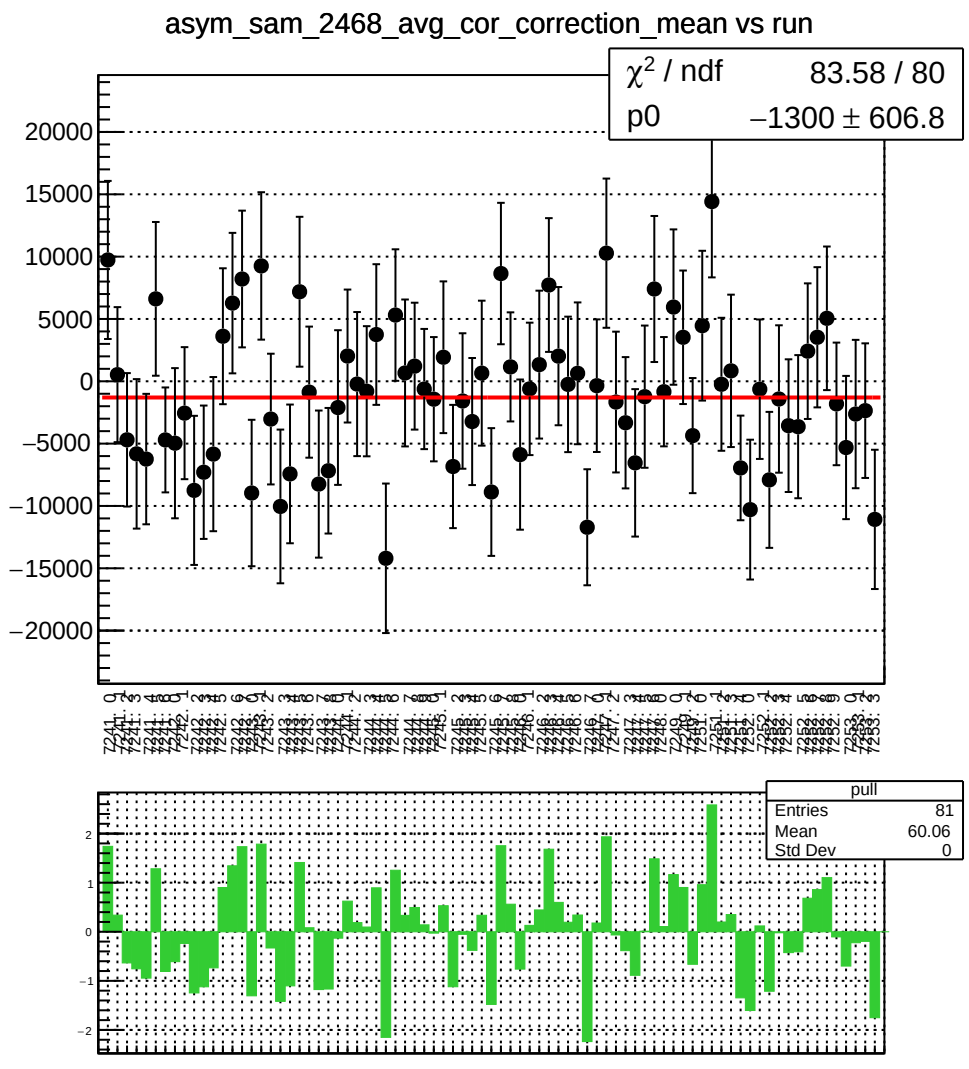

pull1D
Entries 81
Mean 0.02405
Std Dev 1.016

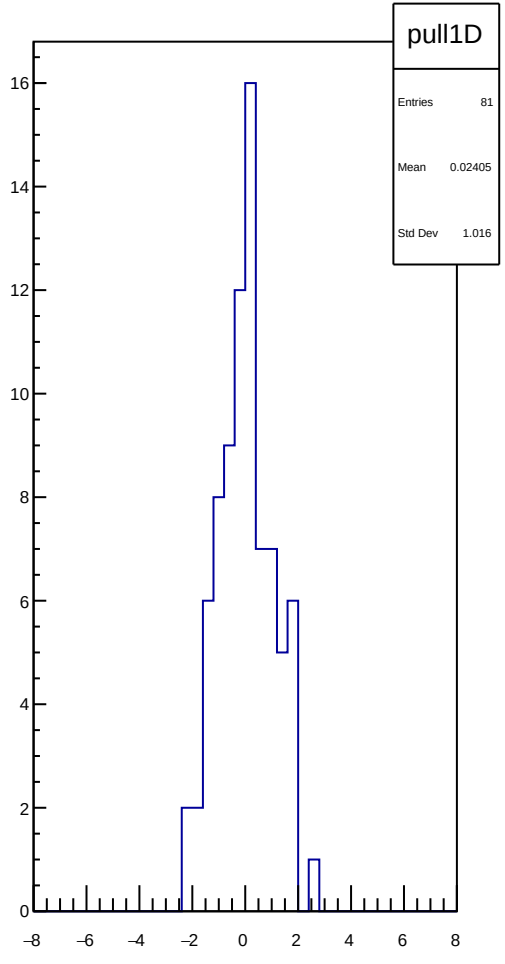

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 5211 / 80
p0 533.1 ± 0.429
620
600
580
560
540
520
500
480
460

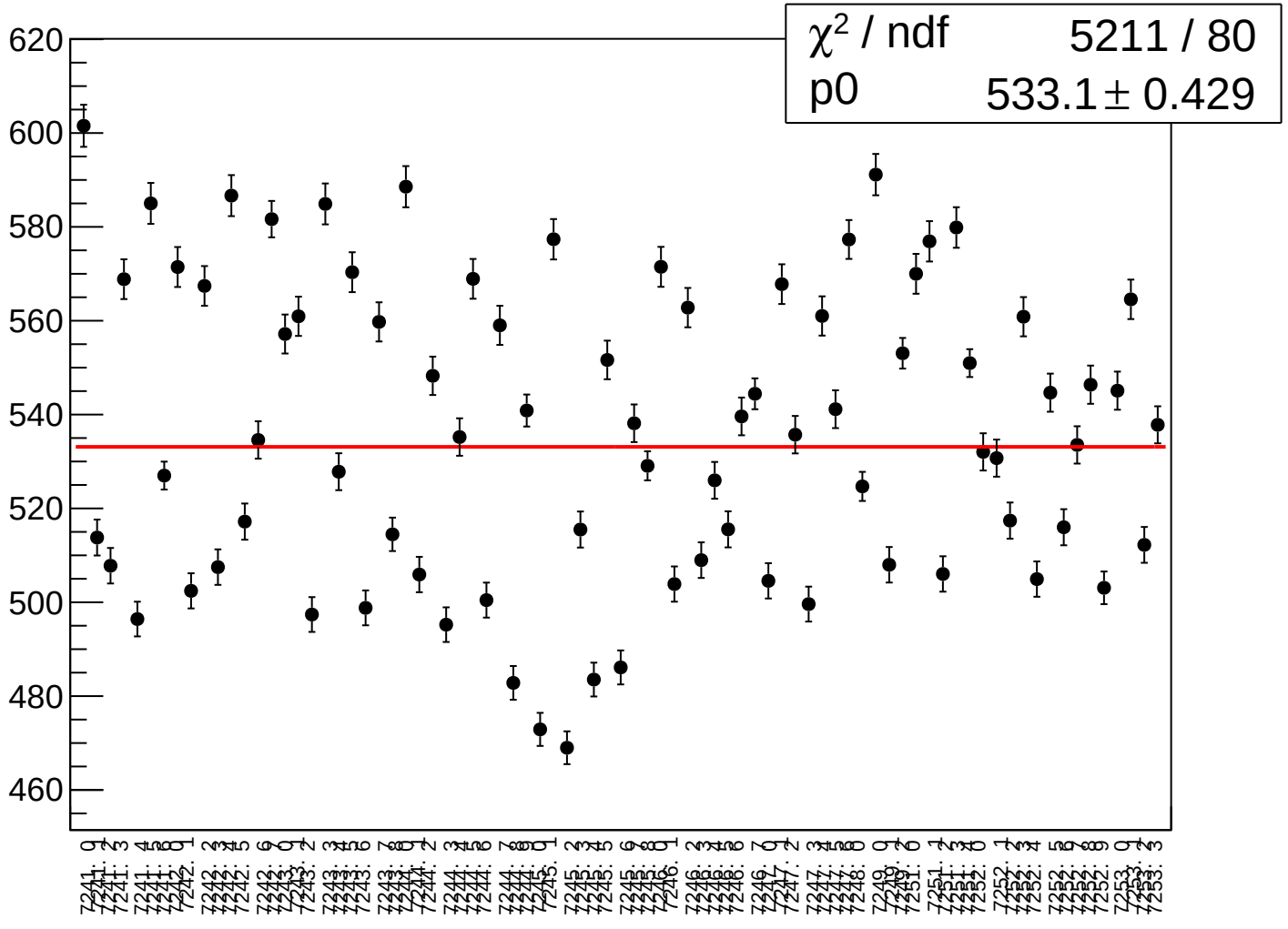

cor_asym_sam_2468_avg_mean vs run
χ² / ndf 96 / 80
p0 69.62 ± 75.82
pull
Entries 81
Mean 808.4
Std Dev 0

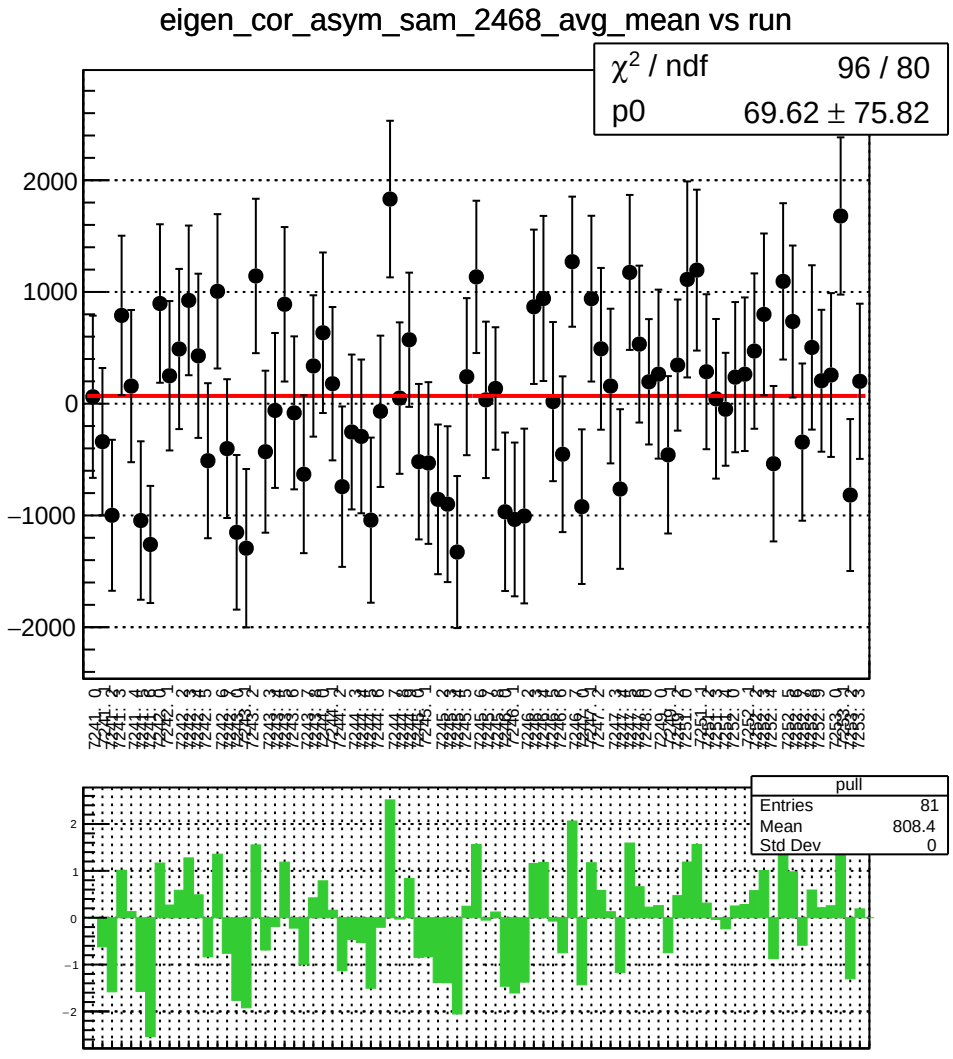

pull1D
Entries 81
Mean 0.00713
Std Dev 1.089

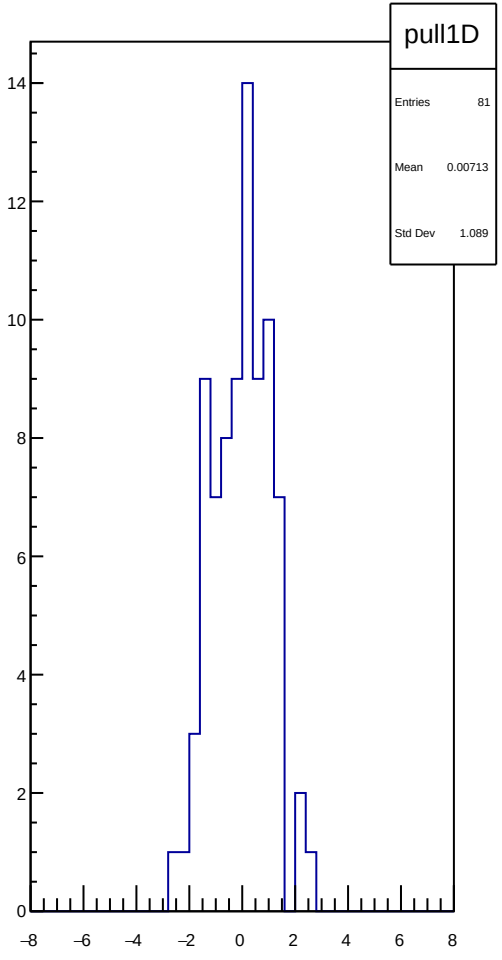

cor_asym_sam_2468_avg_rms vs run
χ^2 / ndf 2061 / 80
p0 66.69 ± 0.05362
85
80
75
70
65
60

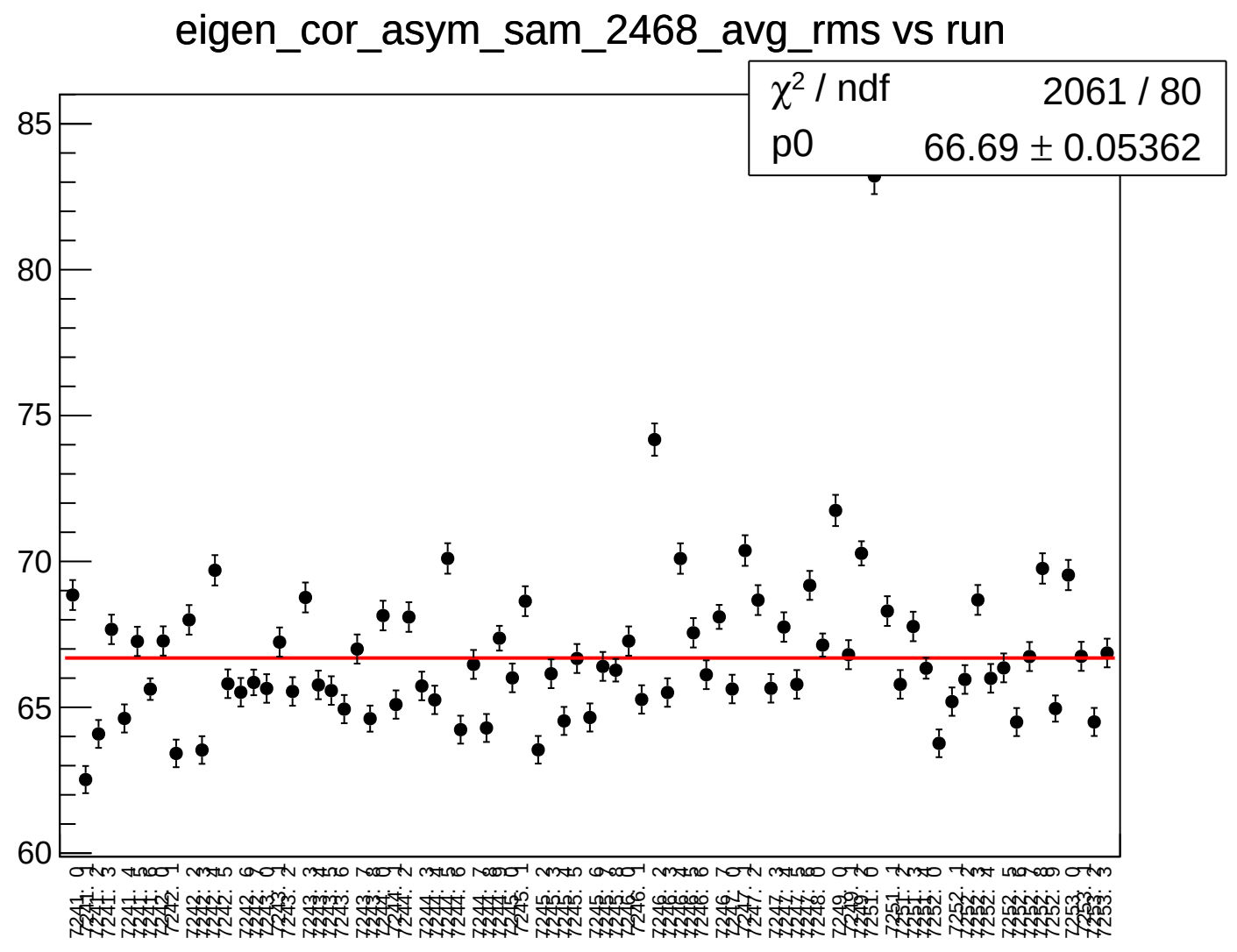

asym_sam_2468_avg_cor_correction_mean vs run
χ² / ndf 83.58 / 80
p0 −1300 ± 606.8
pull
Entries 81
Mean 60.06
Std Dev 0

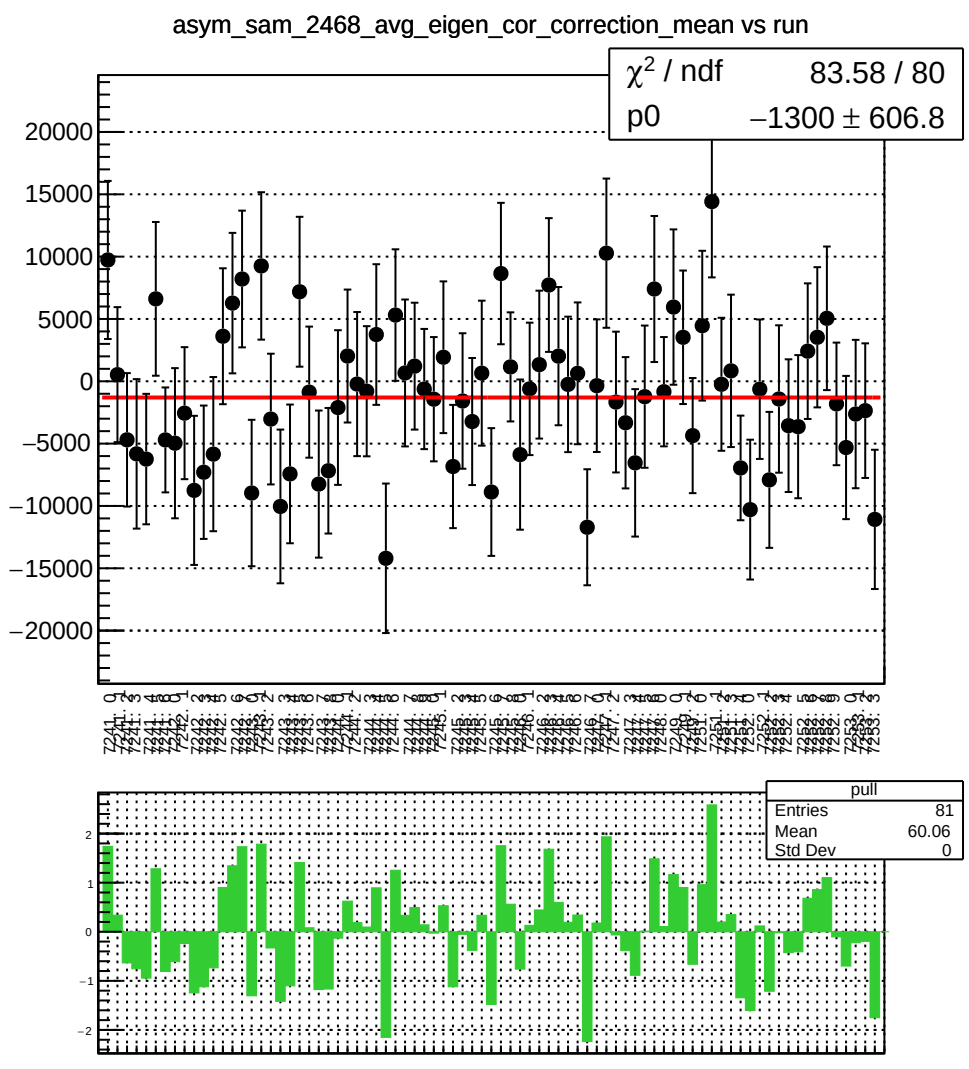

pull1D
Entries 81
Mean 0.02405
Std Dev 1.016

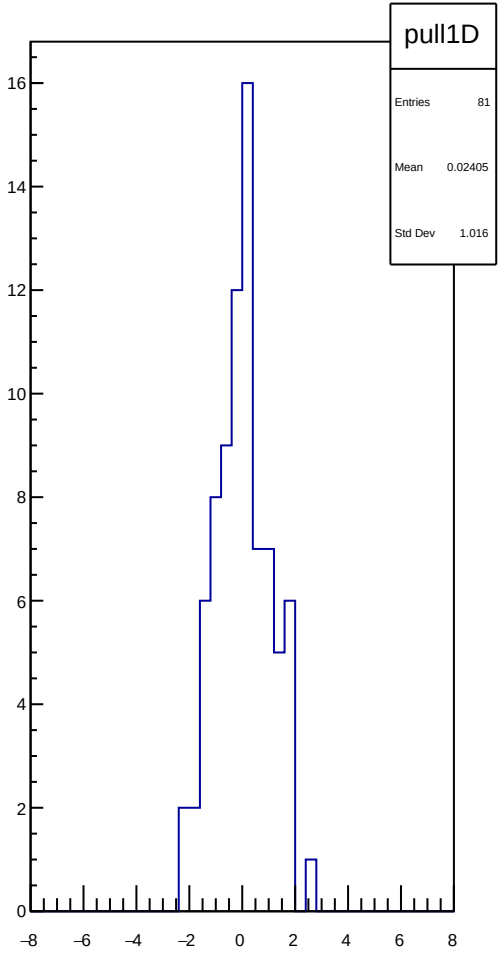

asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 5211 / 80
p0 533.1 ± 0.429
620
600
580
560
540
520
500
480
460

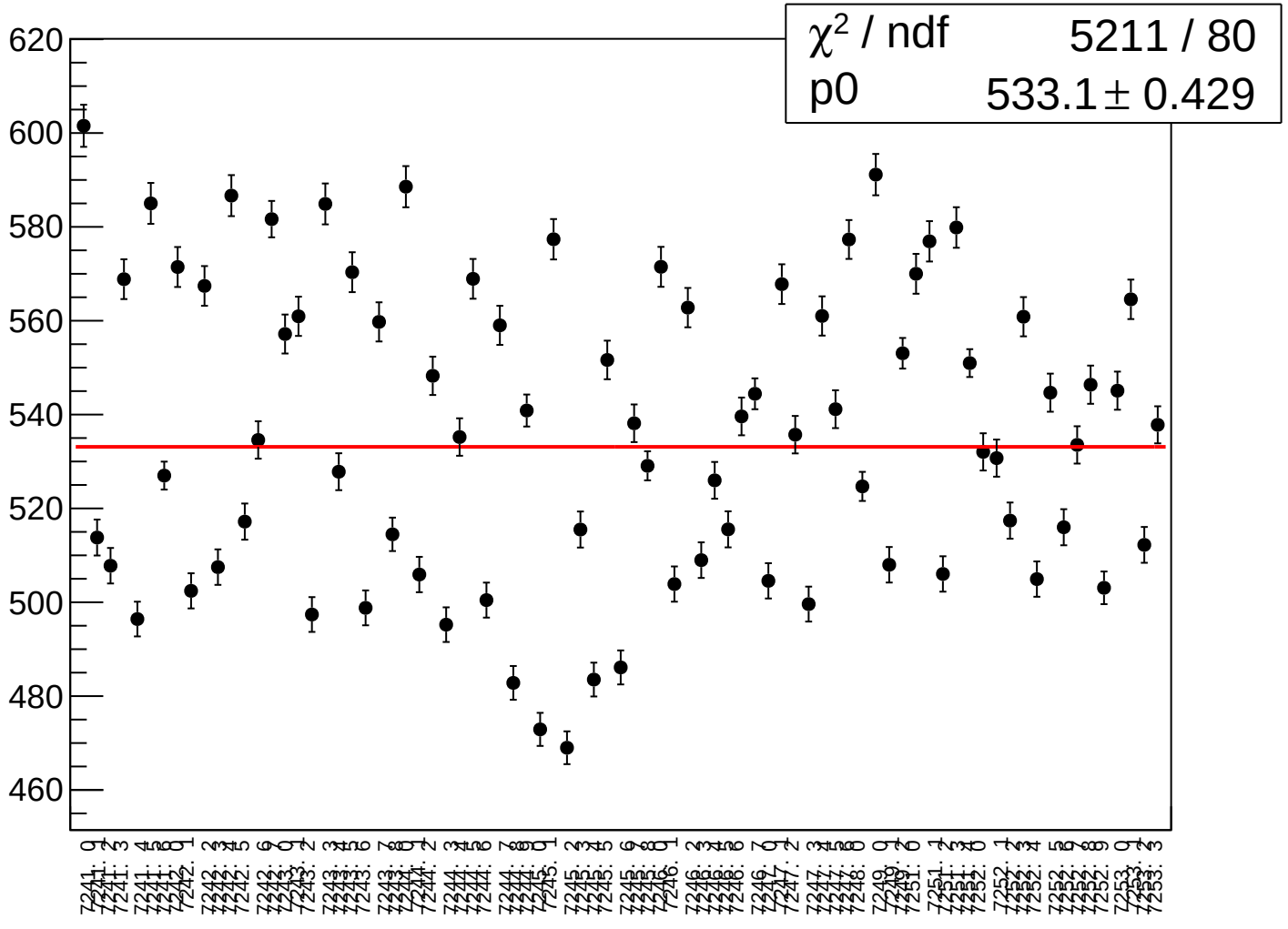

eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 96 / 80
p0 69.62 ± 75.82
pull
Entries 81
Mean 808.4
Std Dev 0

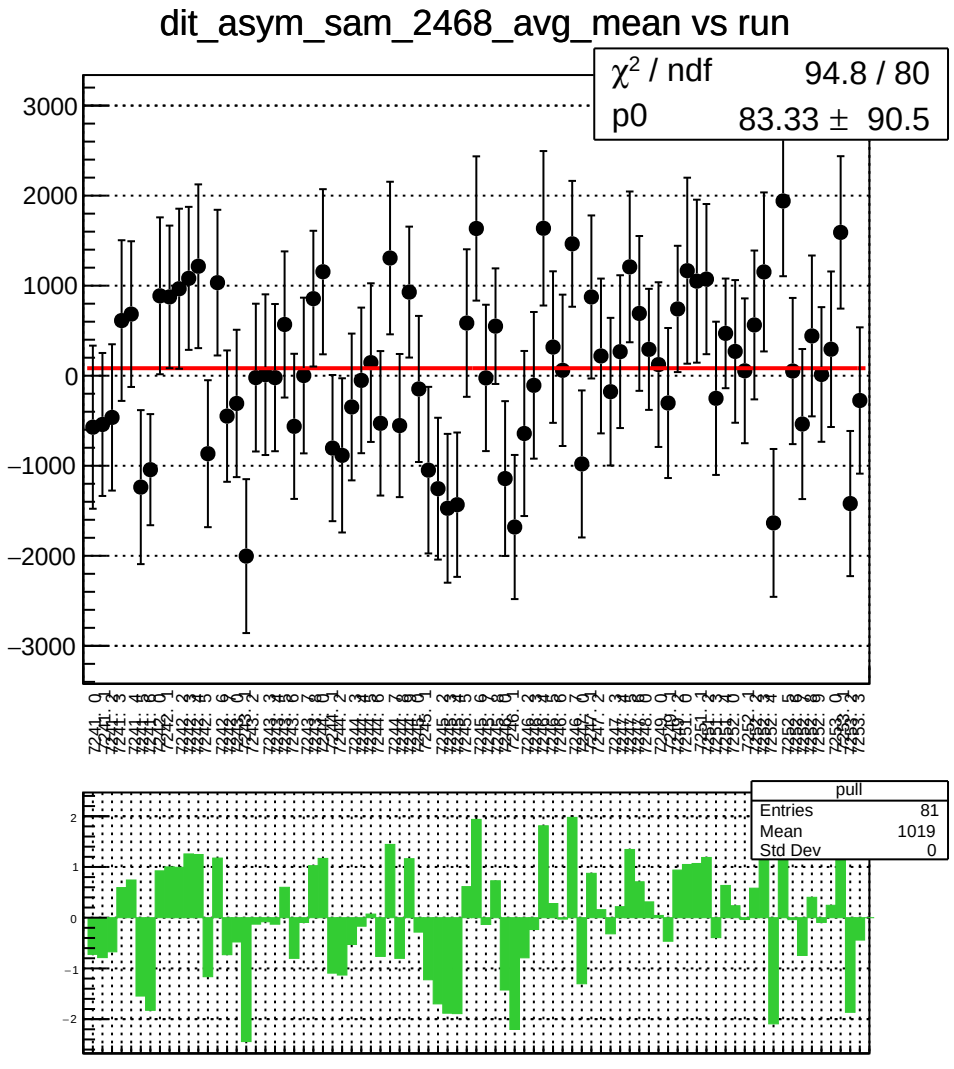

pull1D
Entries 81
Mean 0.00713
Std Dev 1.089

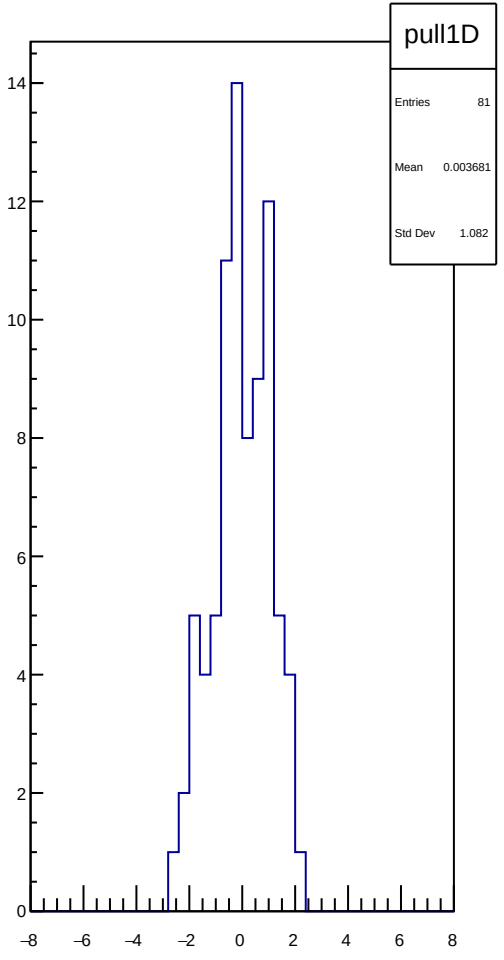

eigen_cor_asym_sam_2468_avg_rms vs run
χ^2 / ndf 2061 / 80
p0 66.69 ± 0.05362
85
80
75
70
65
60

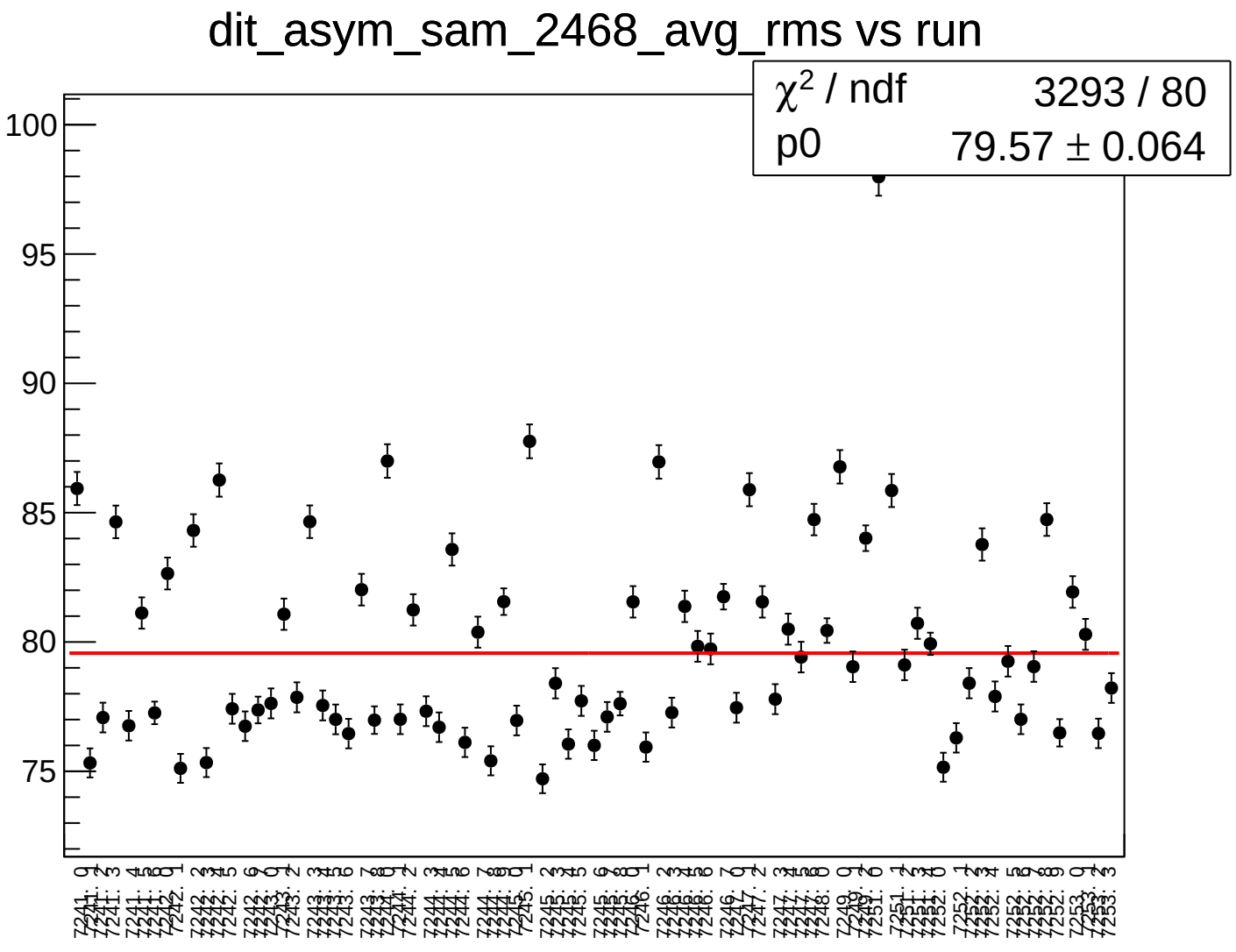

asym_sam_2468_avg_eigen_cor_correction_mean vs run
χ² / ndf 83.58 / 80
p0 −1300 ± 606.8
pull
Entries 81
Mean 60.06
Std Dev 0

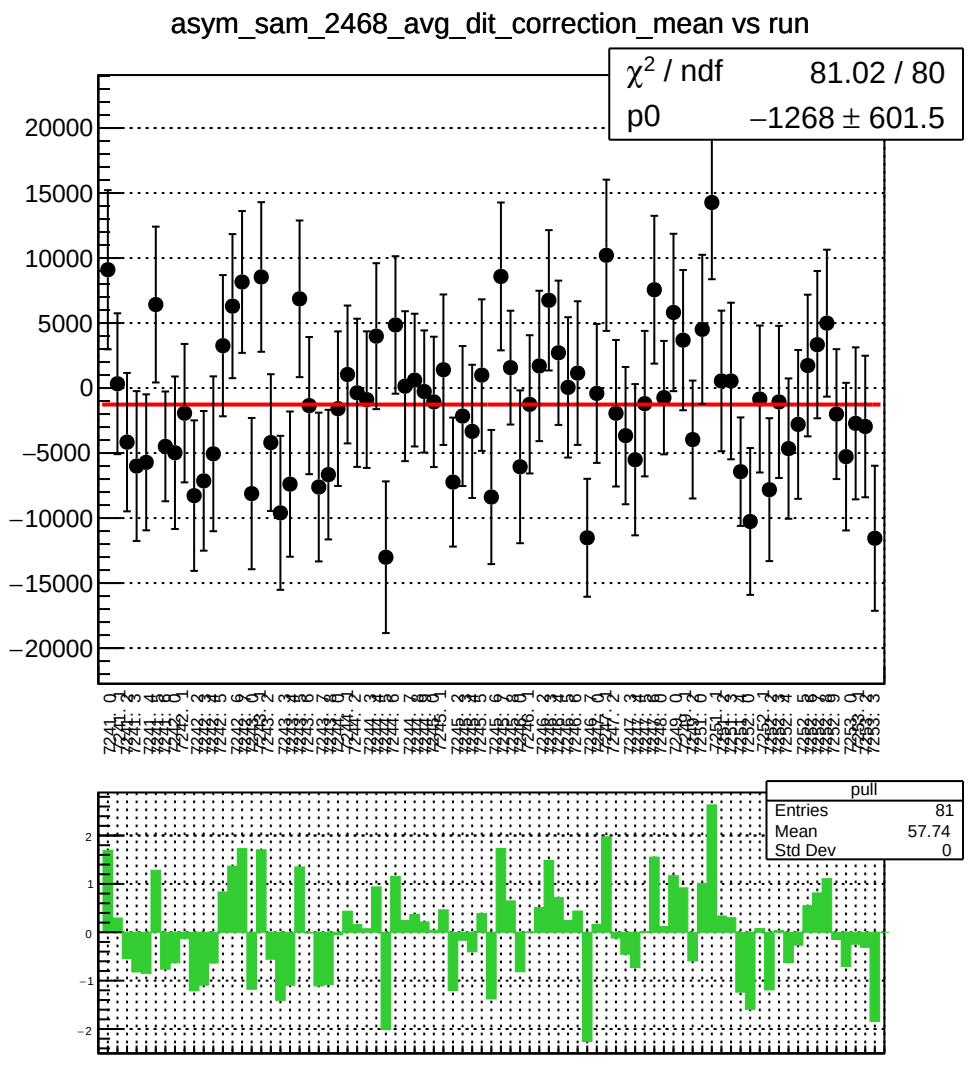

pull1D
Entries 81
Mean 0.02405
Std Dev 1.016

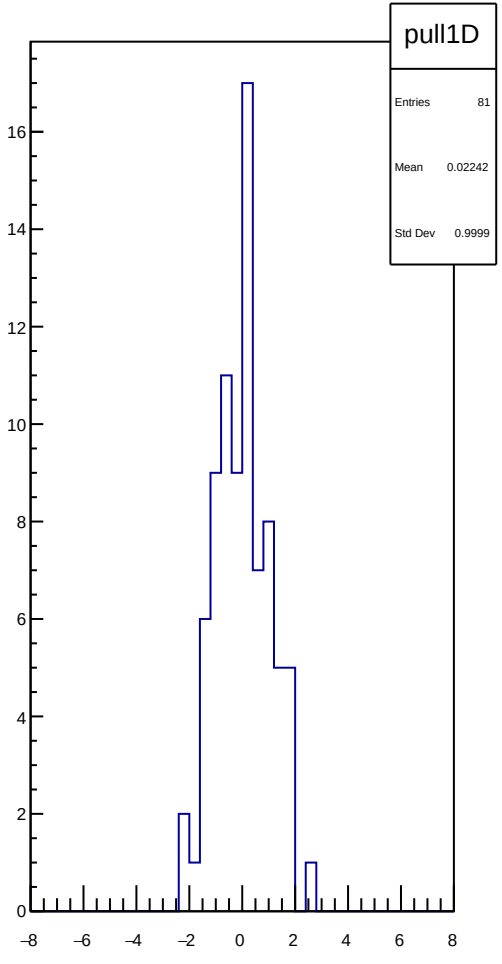

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 5211 / 80
p0 533.1 ± 0.429
620
600
580
560
540
520
500
480
460

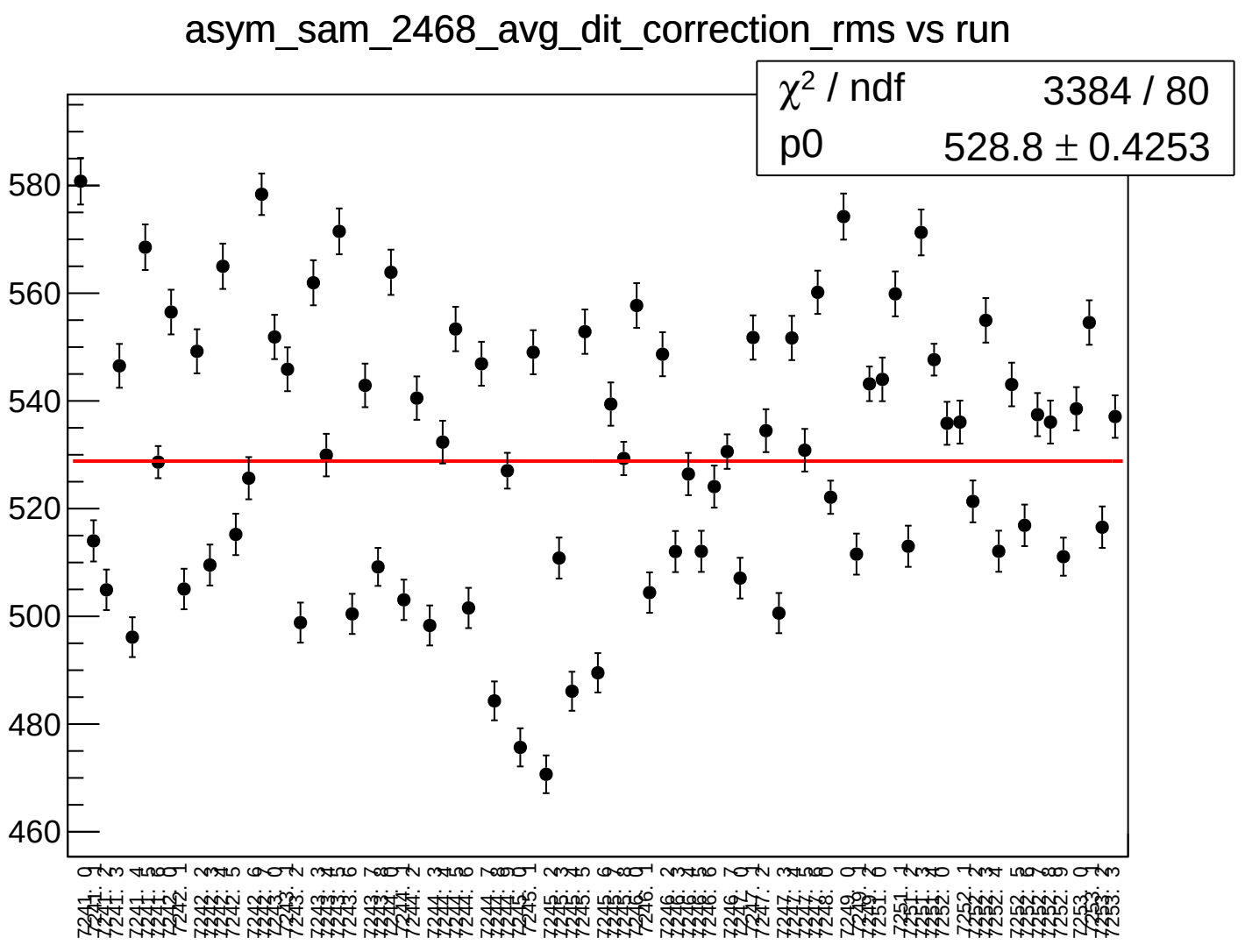

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 94.8 / 80
p0 83.33 ± 90.5
pull
Entries 81
Mean 1019
Std Dev 0

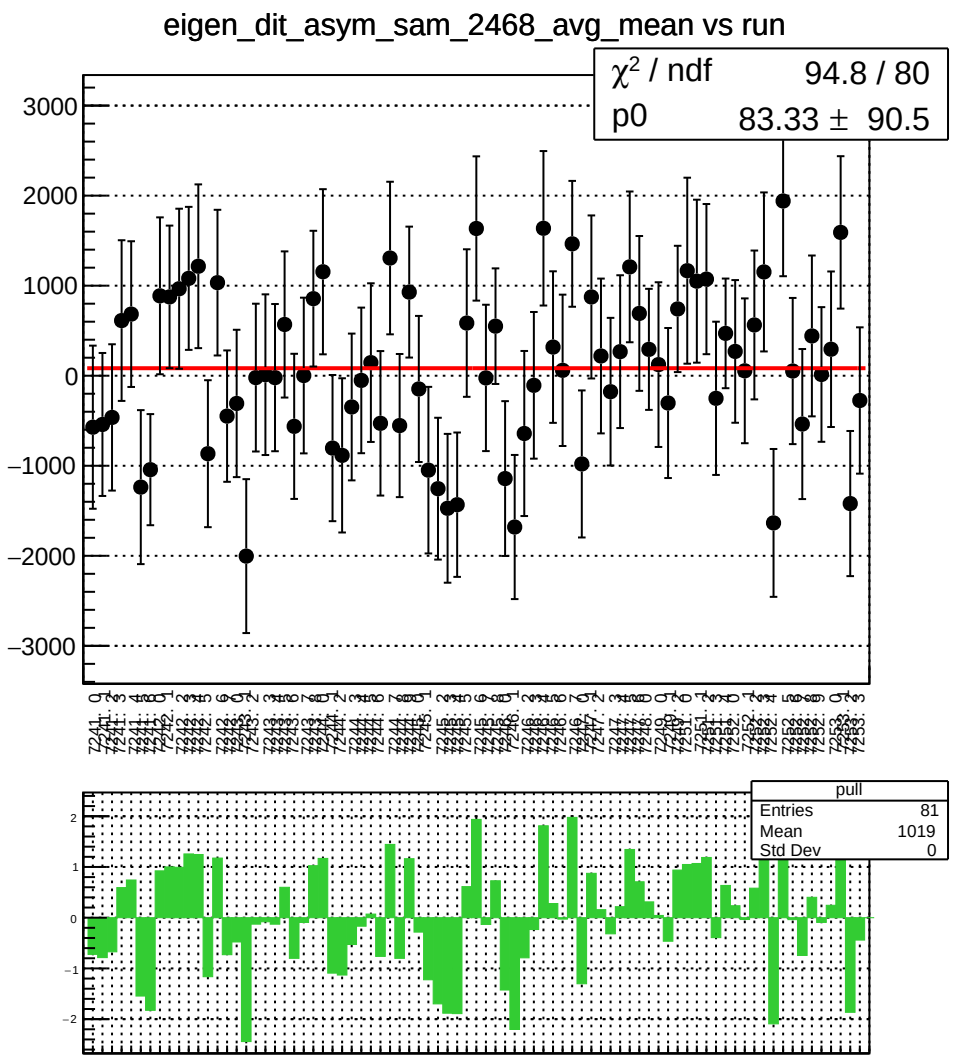

pull1D
Entries 81
Mean 0.003681
Std Dev 1.082

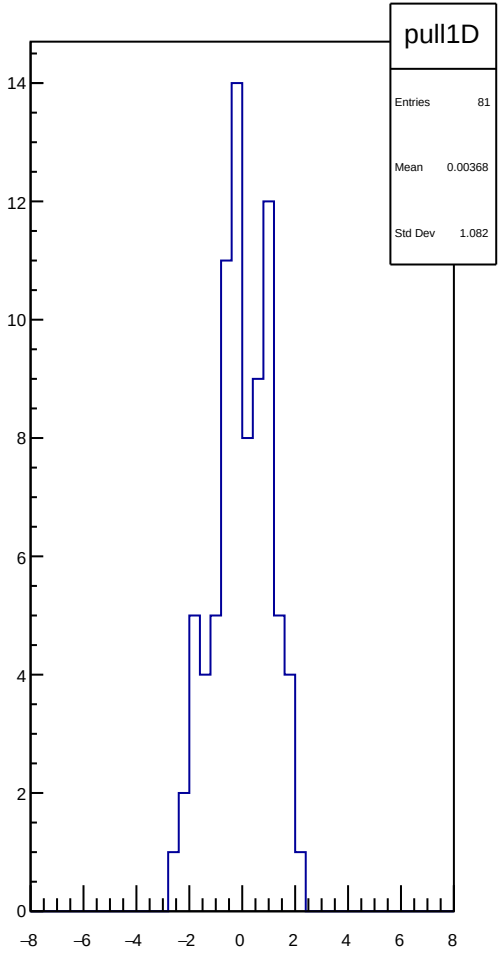

dit_asym_sam_2468_avg_rms vs run
χ^2 / ndf 3293 / 80
p0 79.57 ± 0.064
100
95
90
85
80
75

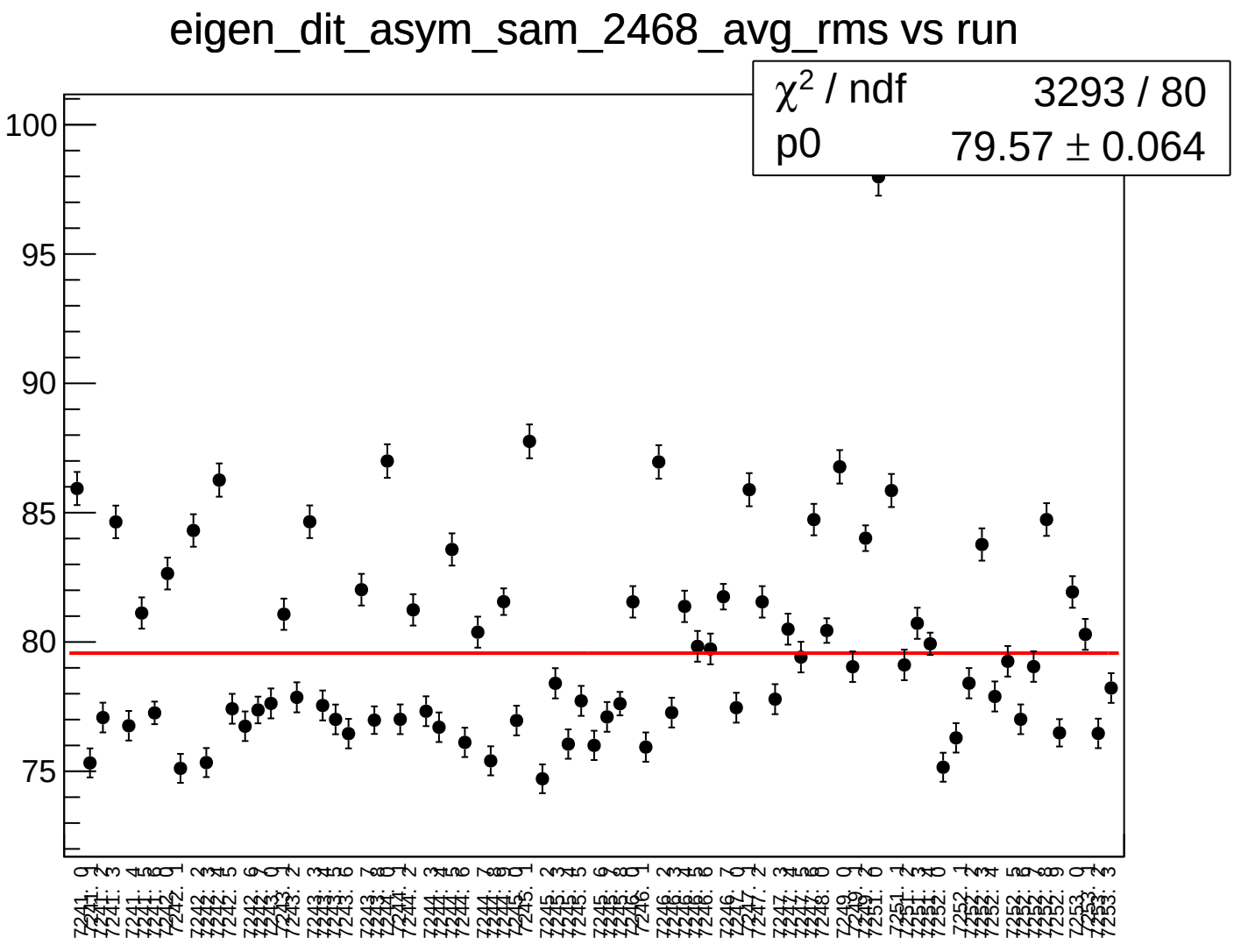

asym_sam_2468_avg_dit_correction_mean vs run
χ² / ndf 81.02 / 80
p0 −1268 ± 601.5
pull
Entries 81
Mean 57.74
Std Dev 0

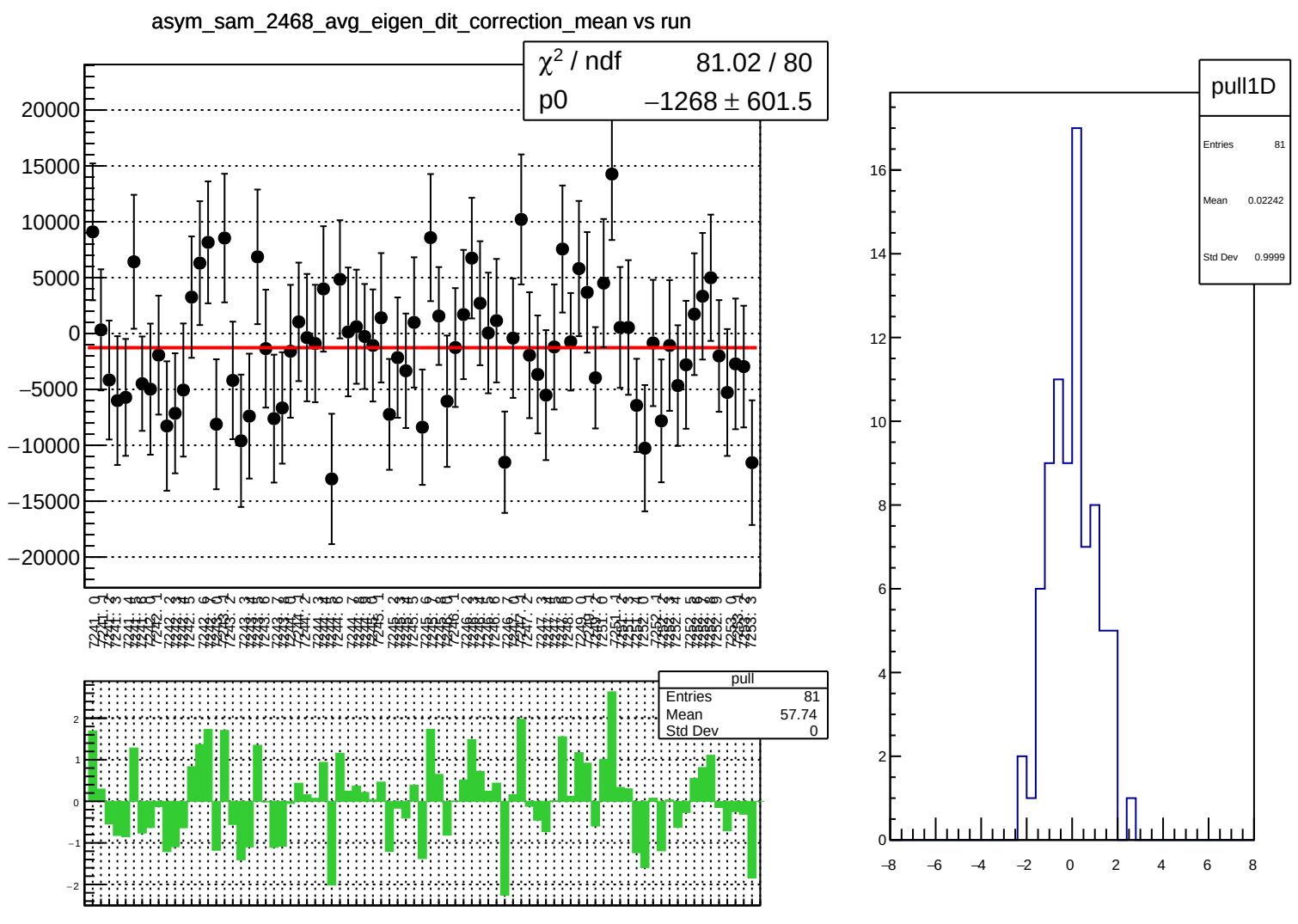

pull1D
Entries 81
Mean 0.02242
Std Dev 0.9999

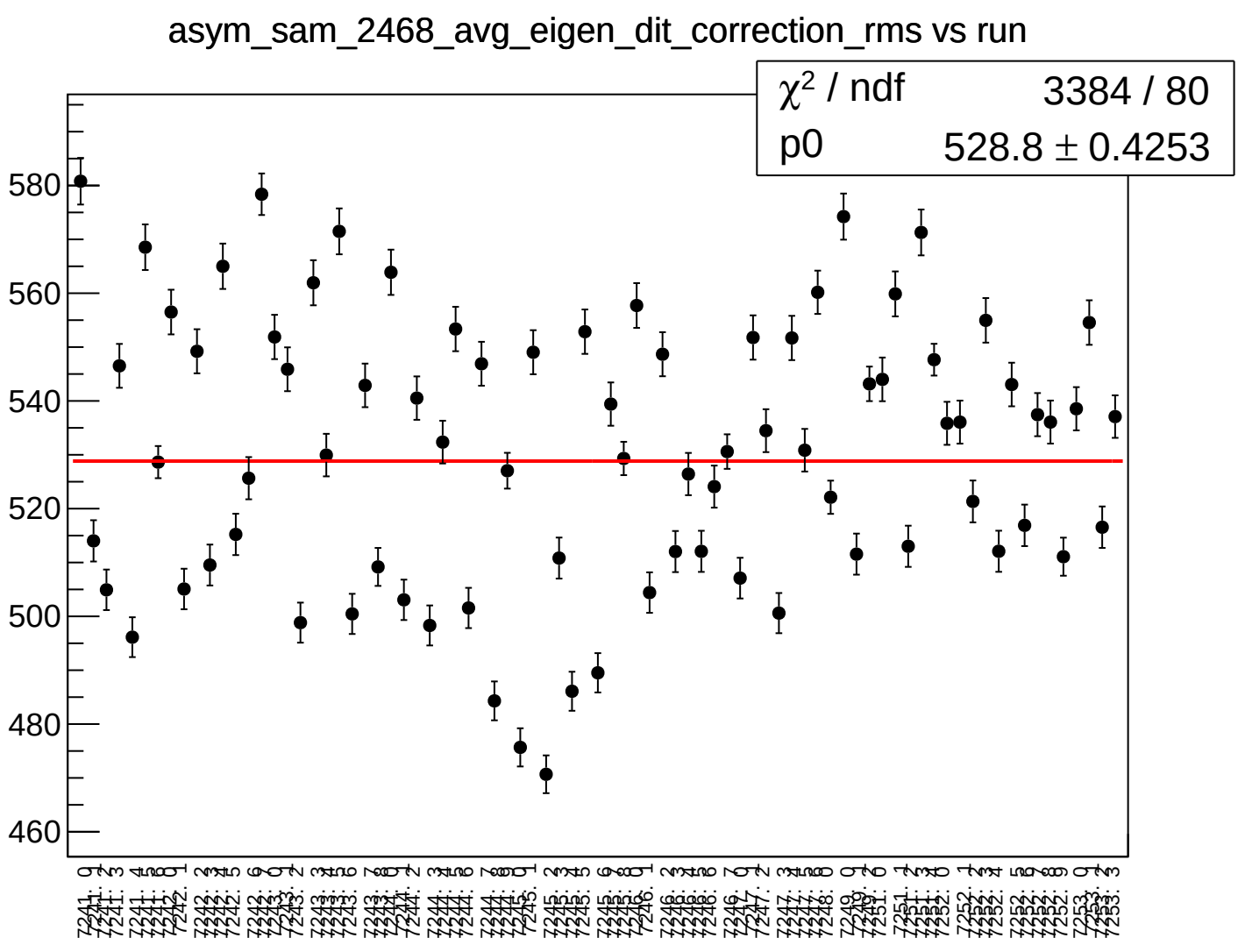

asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 3384 / 80
p0 528.8 ± 0.4253
580
560
540
520
500
480
460

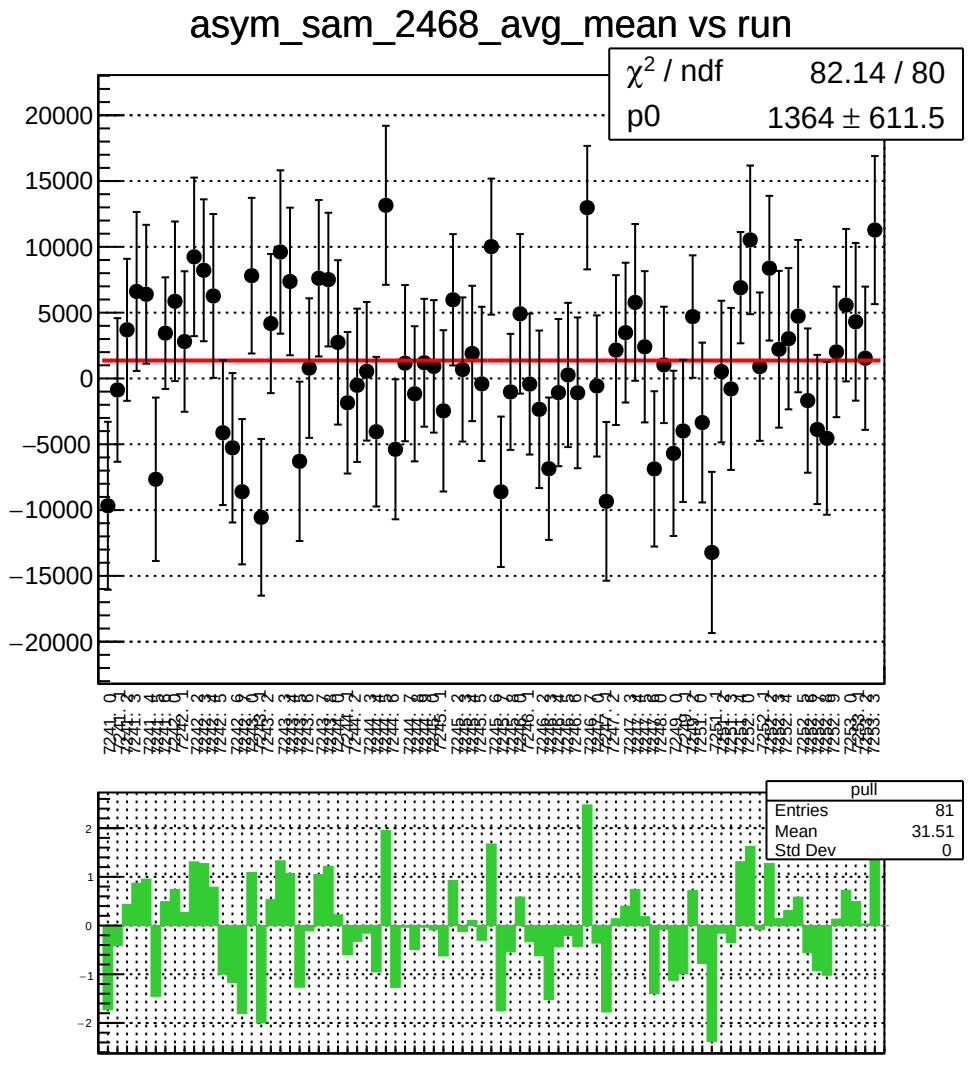

eigen_dit_asym_sam_2468_avg_mean vs run
χ² / ndf 94.8 / 80
p0 83.33 ± 90.5
pull
Entries 81
Mean 1019
Std Dev 0

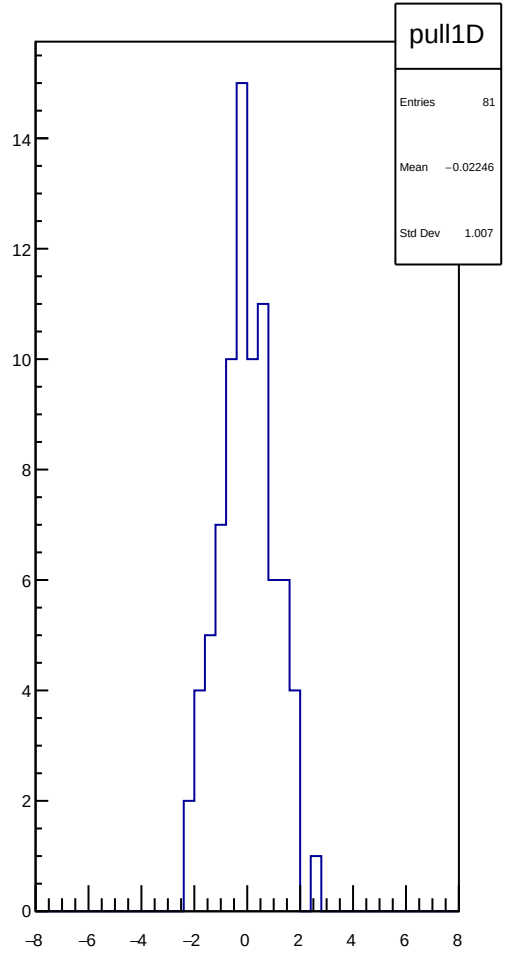

pull1D
Entries 81
Mean 0.00368
Std Dev 1.082

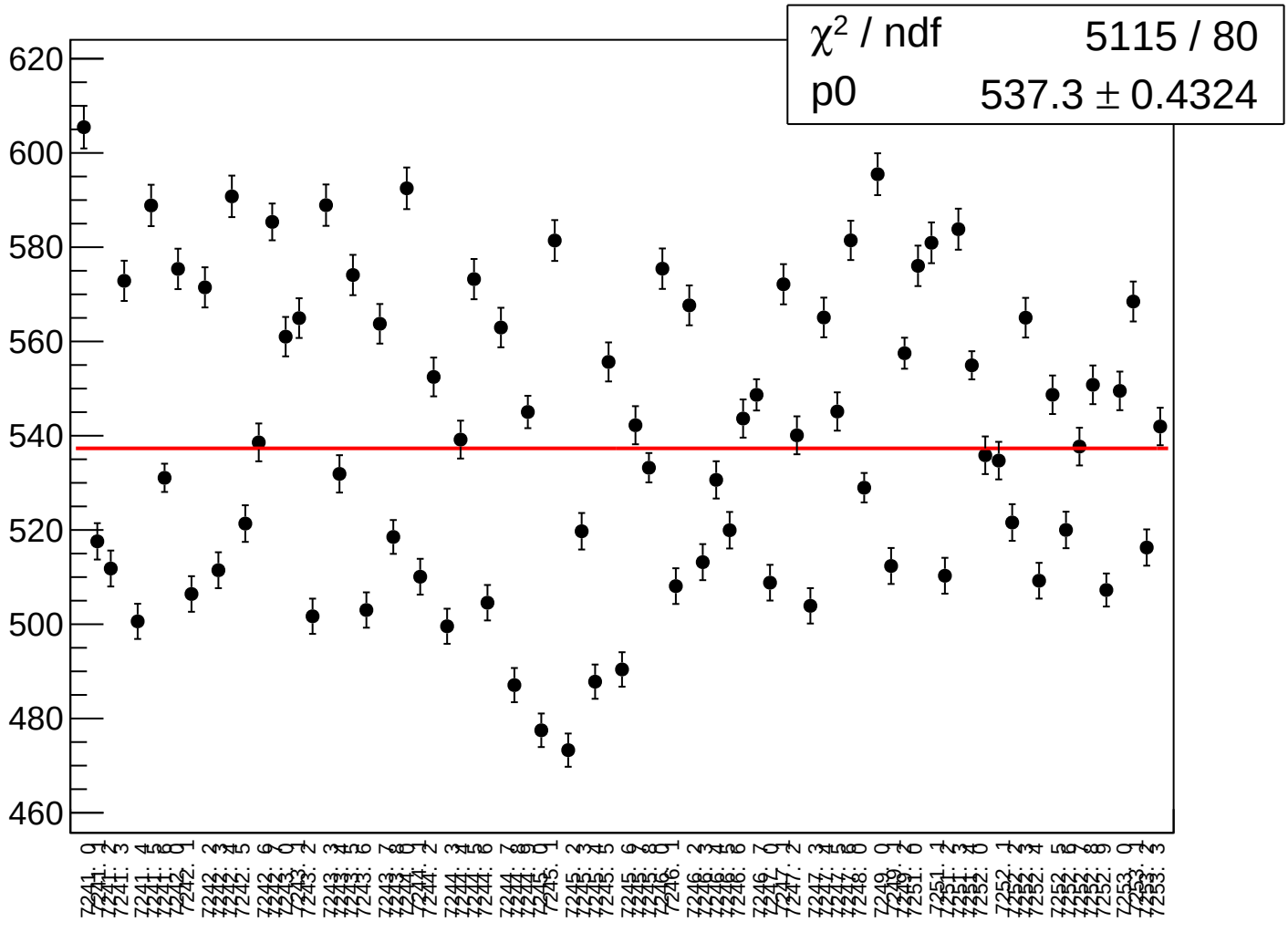

eigen_dit_asym_sam_2468_avg_rms vs run
χ² / ndf 3293 / 80
p0 79.57 ± 0.064
100
95
90
85
80
75

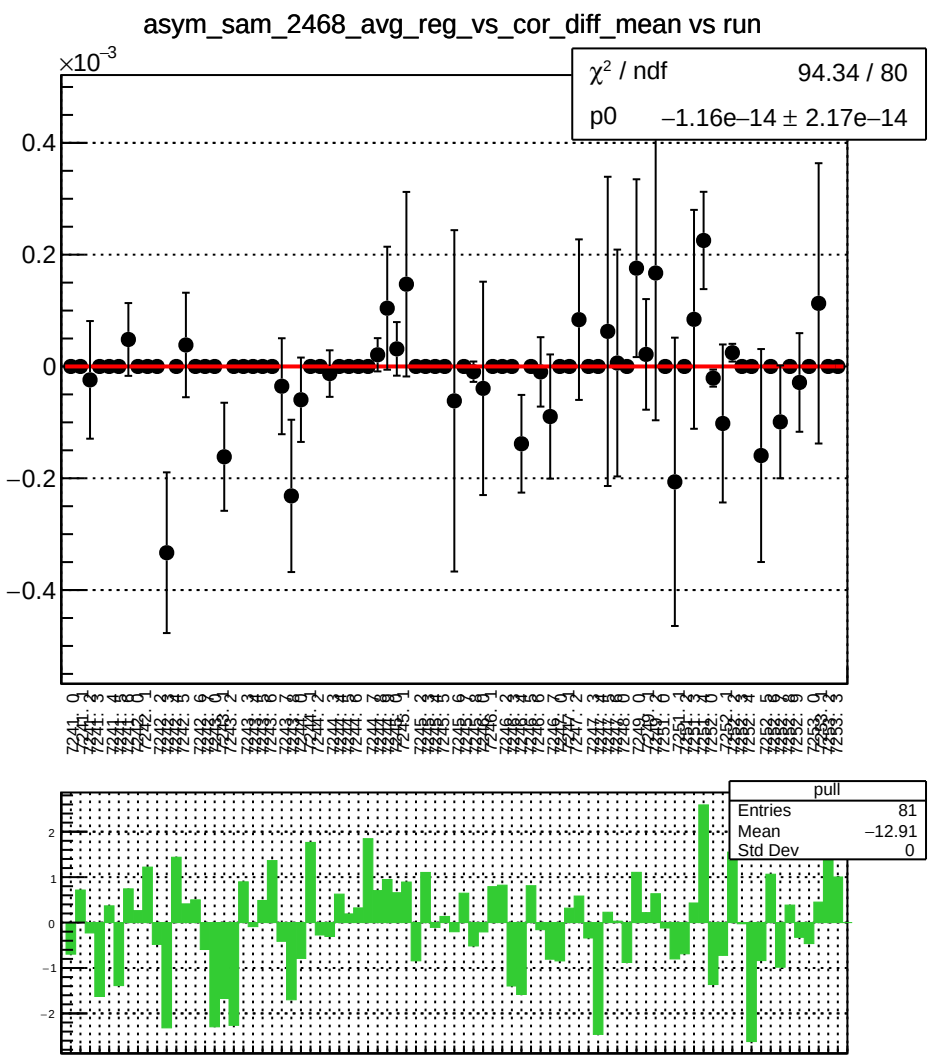

asym_sam_2468_avg_eigen_dit_correction_mean vs run
χ² / ndf 81.02 / 80
p0 −1268 ± 601.5
pull
Entries 81
Mean 57.74
Std Dev 0
pull1D
Entries 81
Mean 0.02242
Std Dev 0.9999

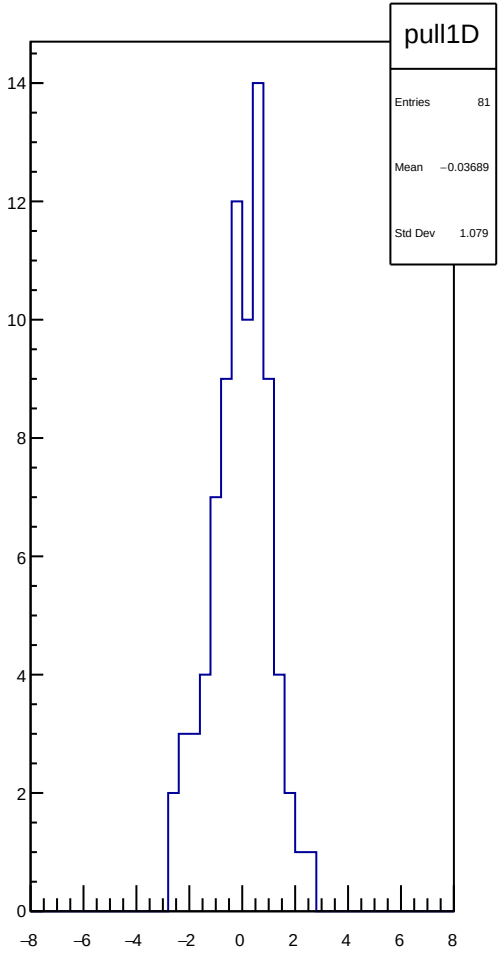

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 3384 / 80
p0 528.8 ± 0.4253
580
560
540
520
500
480
460

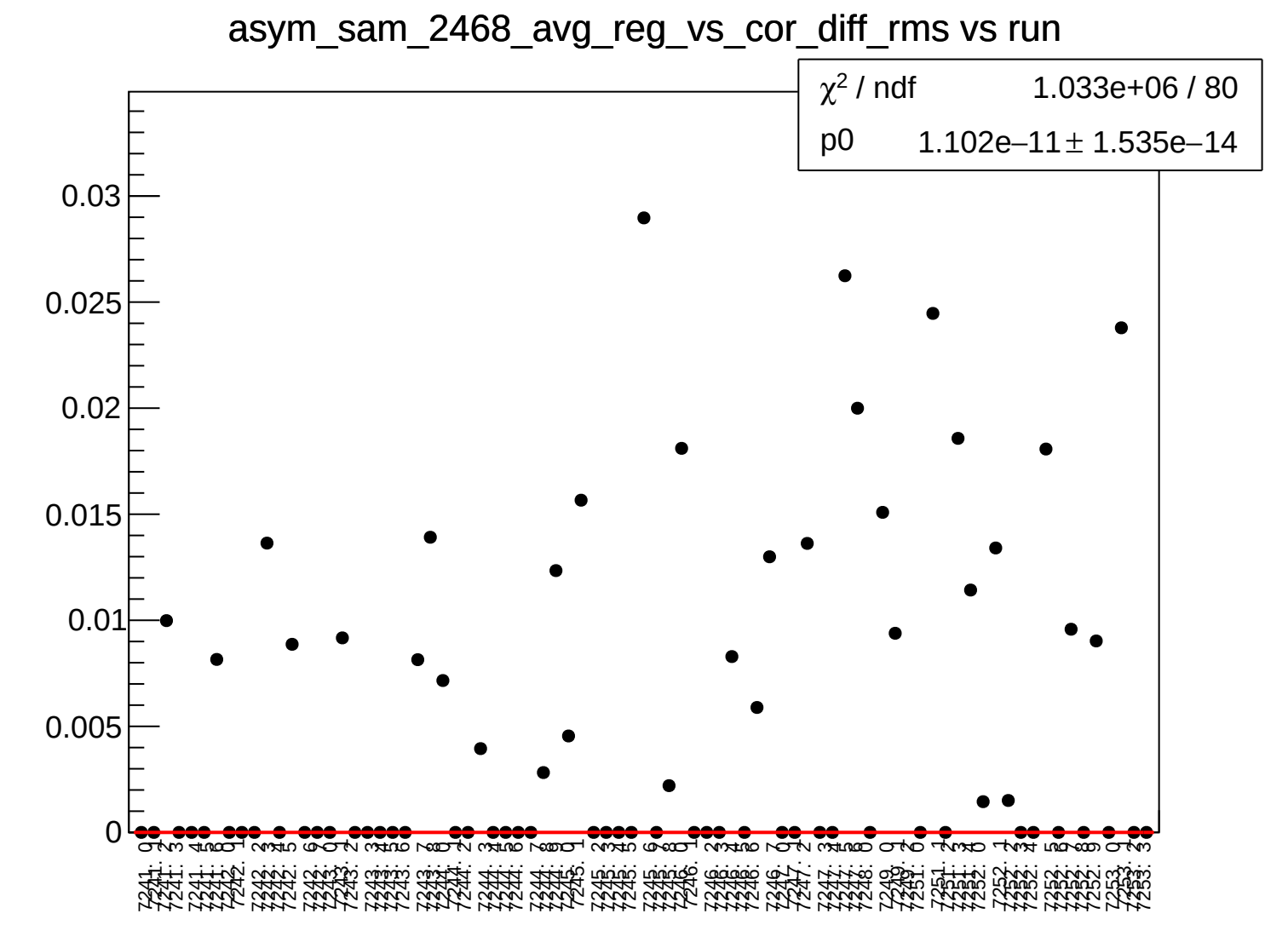

asym_sam_2468_avg_mean vs run
χ² / ndf 82.14 / 80
p0 1364 ± 611.5
pull
Entries 81
Mean 31.51
Std Dev 0

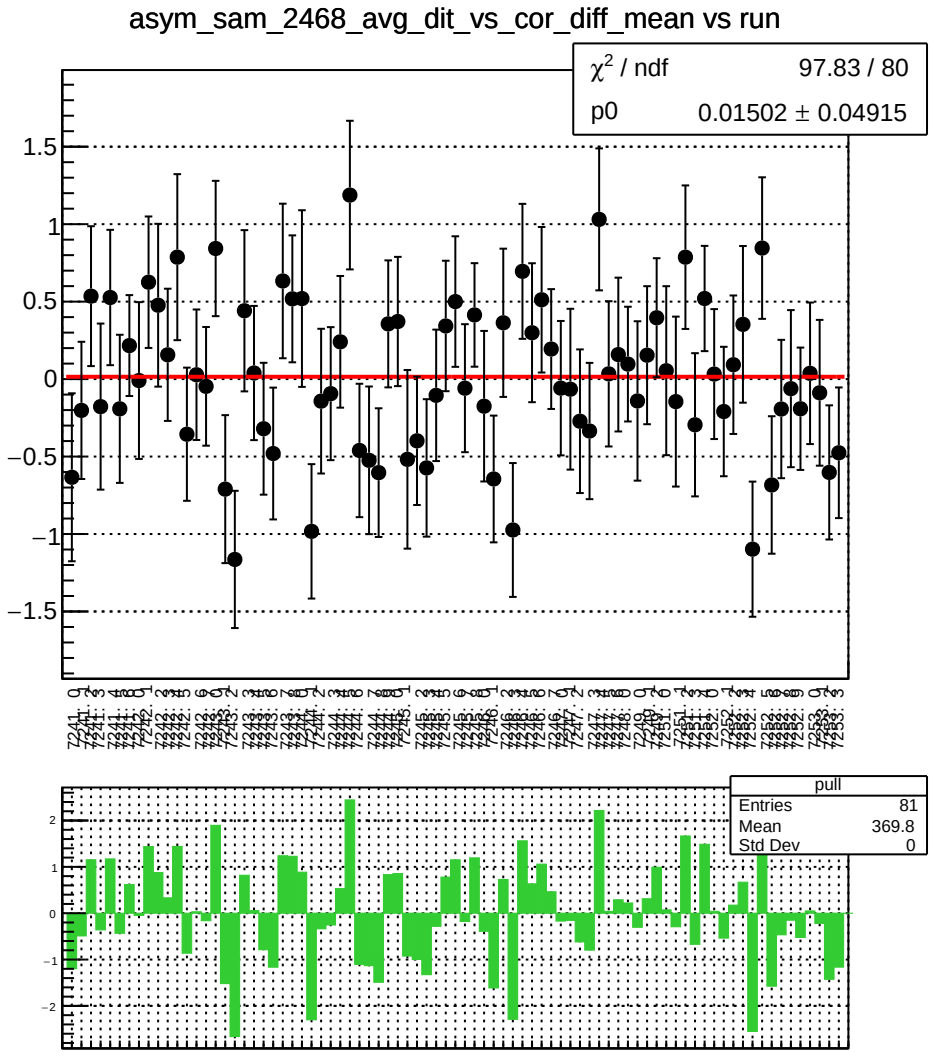

pull1D
Entries 81
Mean −0.02246
Std Dev 1.007

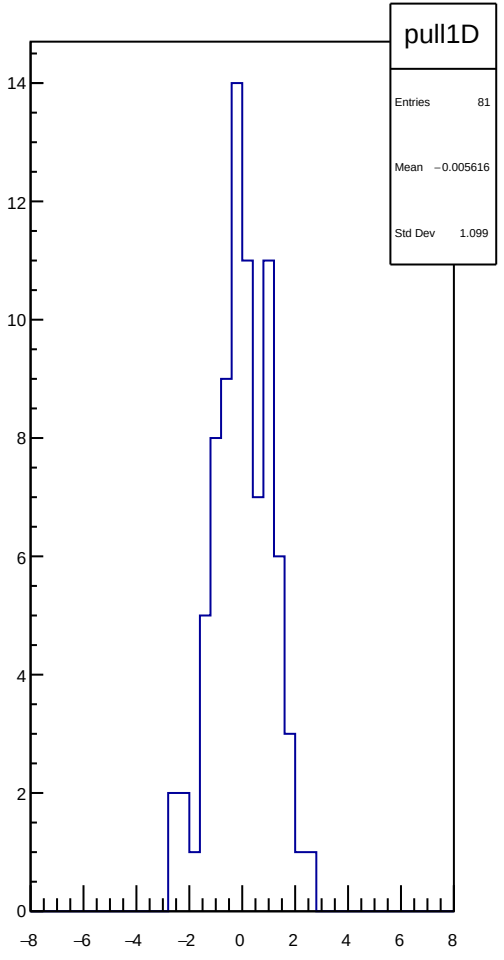

asym_sam_2468_avg_rms vs run
χ² / ndf 5115 / 80
p0 537.3 ± 0.4324
620
600
580
560
540
520
500
480
460

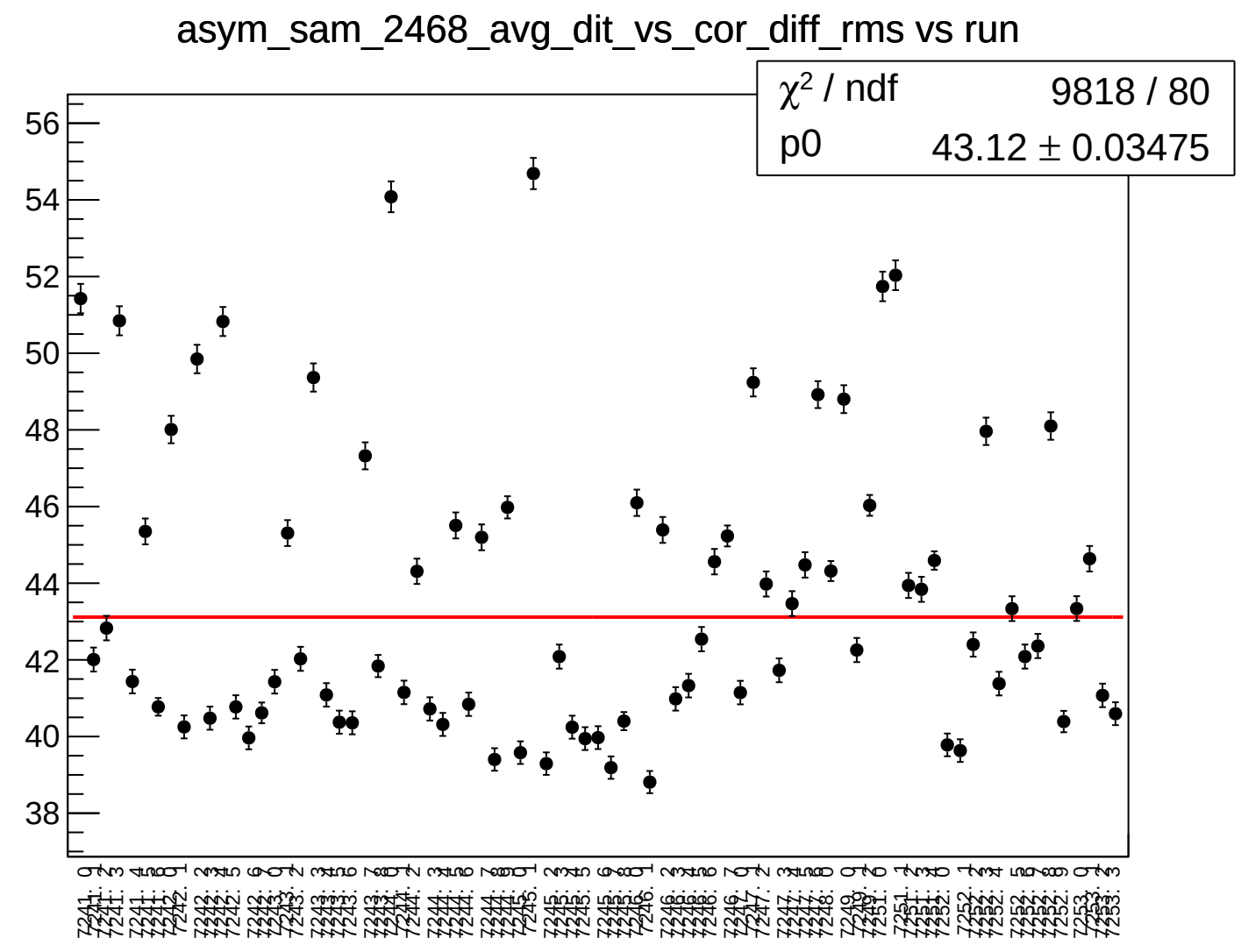

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 94.34 / 80
p0 −1.16e−14 ± 2.17e−14
0.4
0.2
0
−0.2
−0.4
pull
Entries 81
Mean −12.91
Std Dev 0
2
1
0
−1
−2

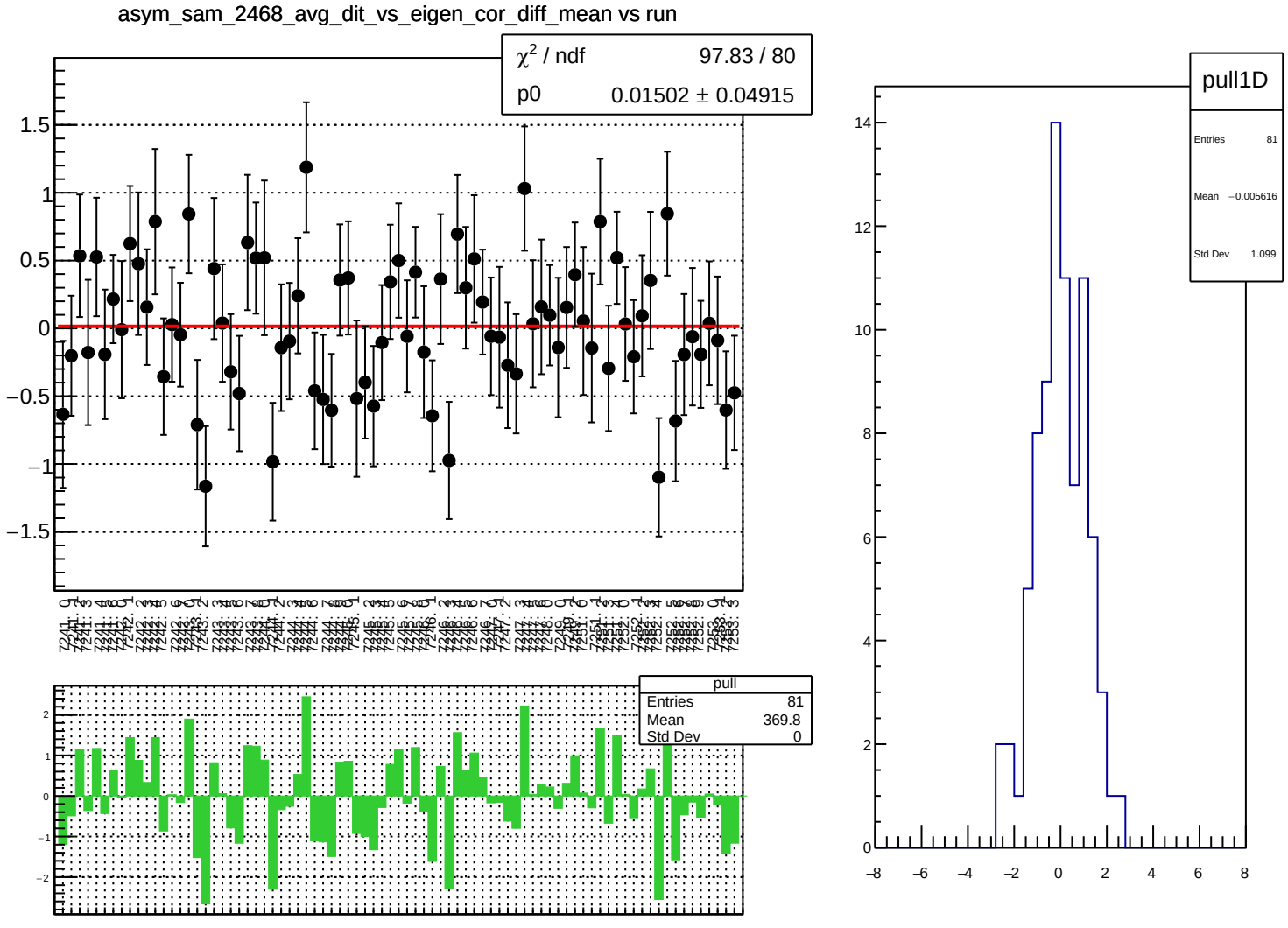

pull1D
Entries 81
Mean −0.03689
Std Dev 1.079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

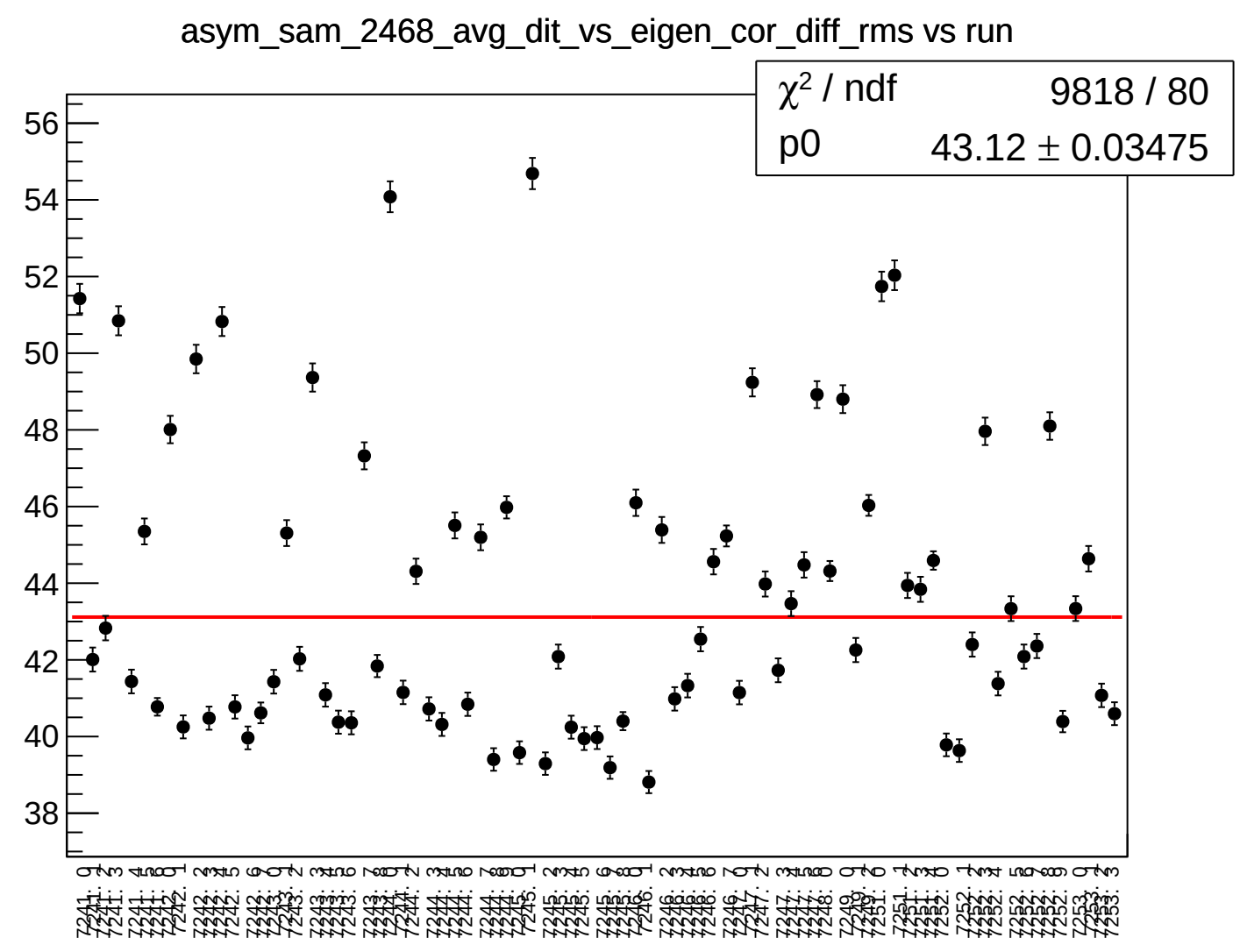

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.033e+06 / 80
p0 1.102e−11 ± 1.535e−14
0.03
0.025
0.02
0.015
0.01
0.005
0

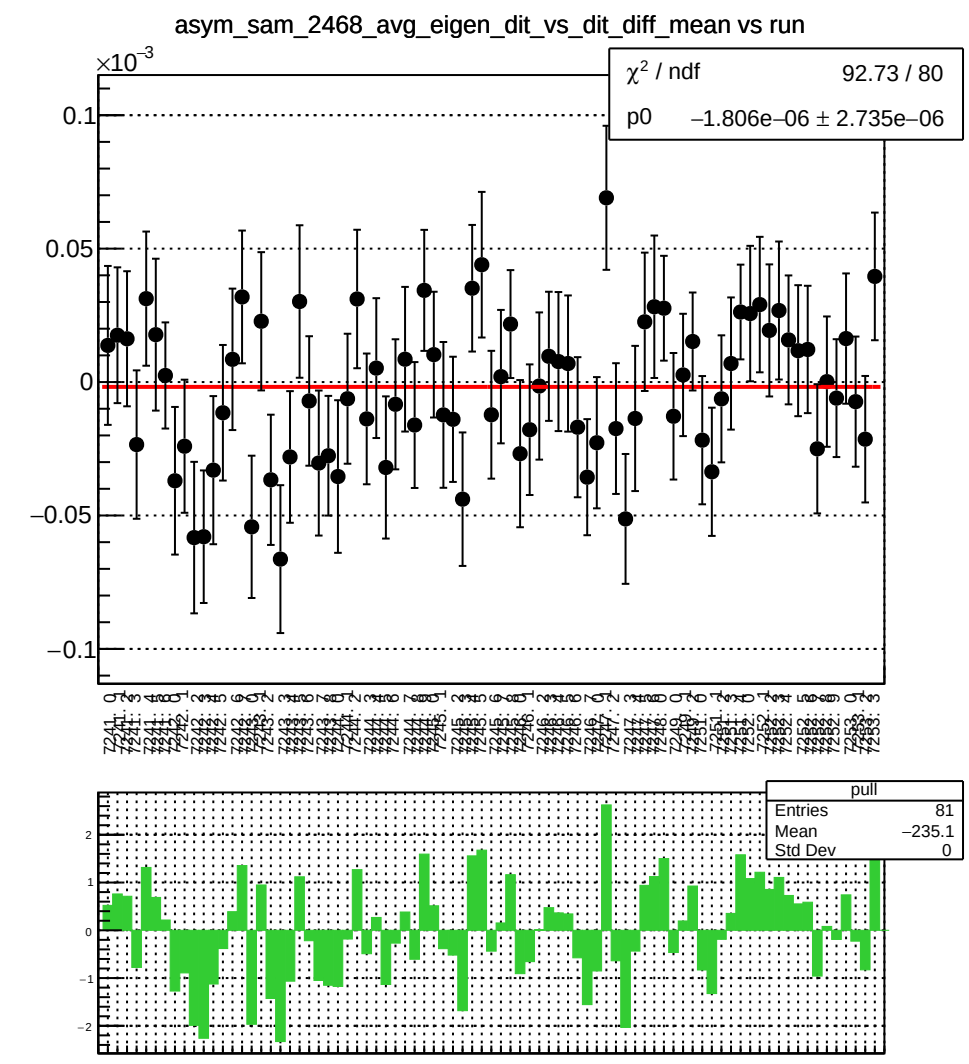

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 97.83 / 80
p0 0.01502 ± 0.04915
pull
Entries 81
Mean 369.8
Std Dev 0

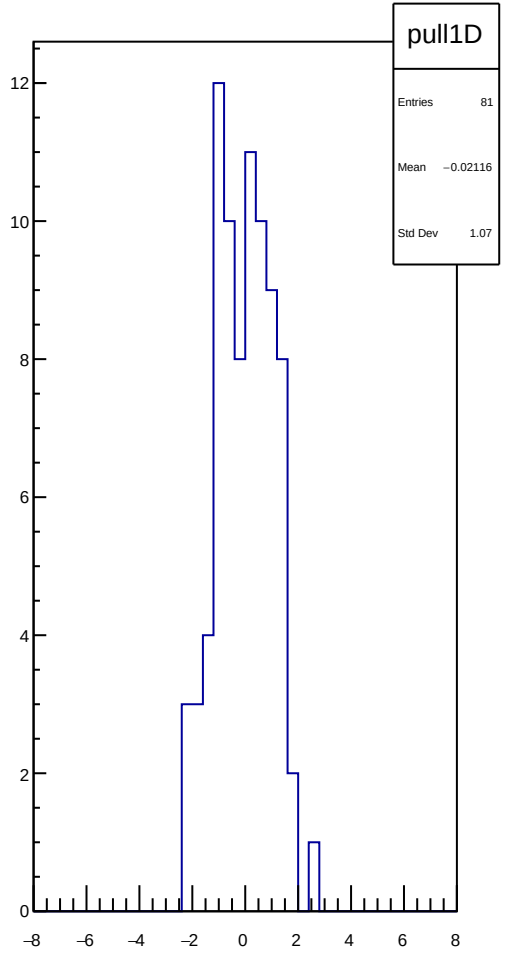

pull1D
Entries 81
Mean −0.005616
Std Dev 1.099

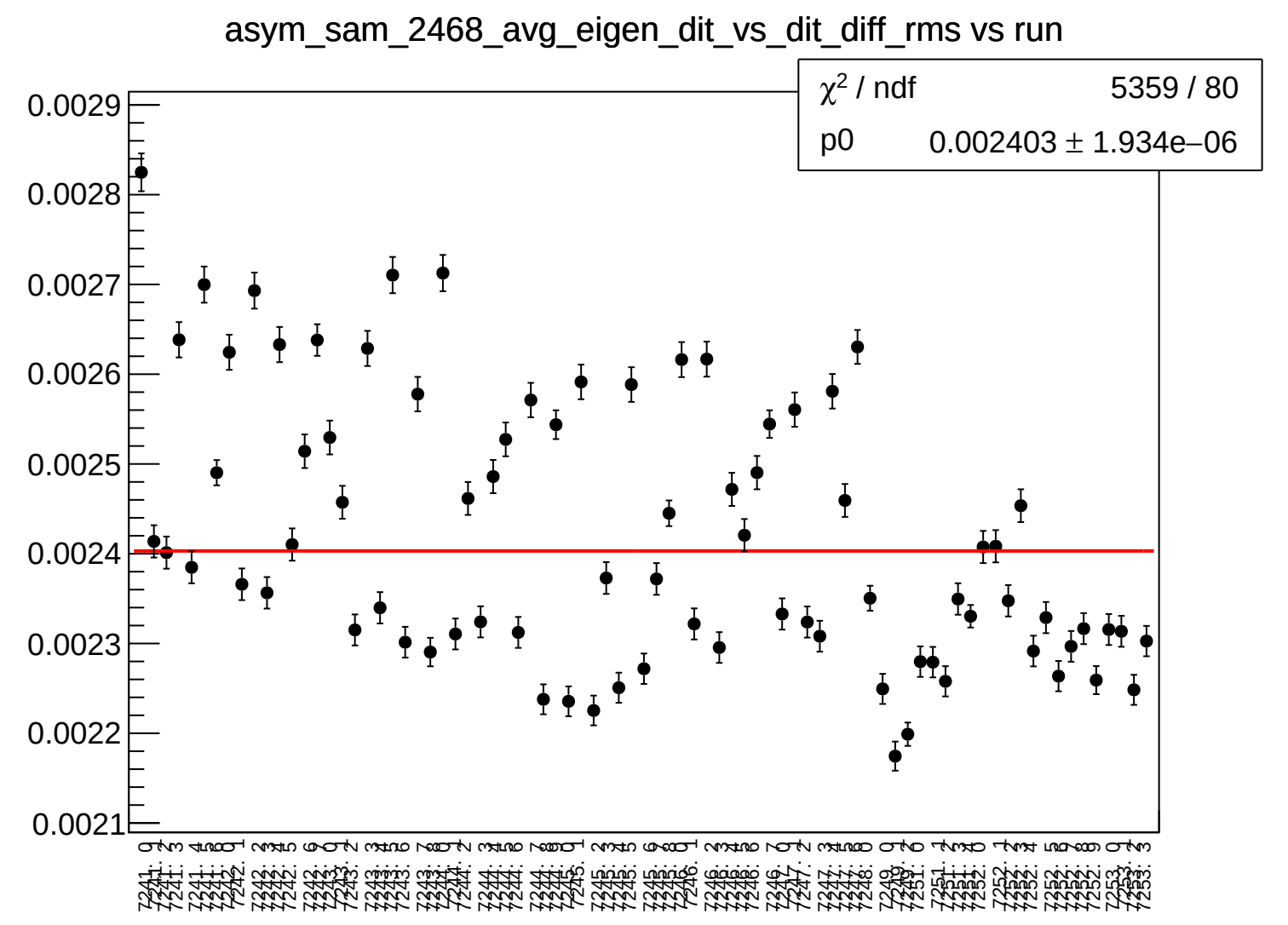

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9818 / 80
p0 43.12 ± 0.03475
56
54
52
50
48
46
44
42
40
38

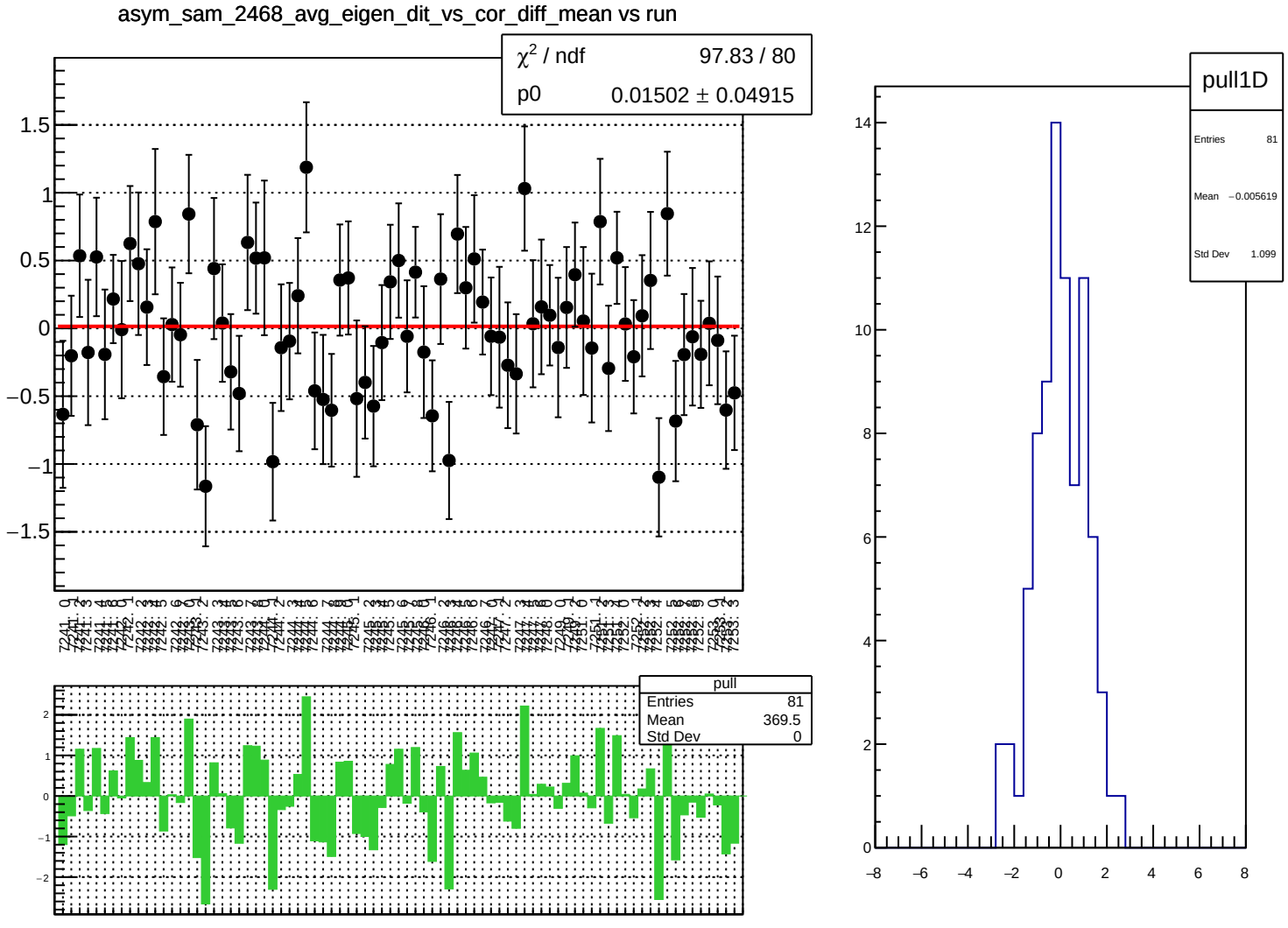

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.83 / 80
p0 0.01502 ± 0.04915
pull
Entries 81
Mean 369.8
Std Dev 0
pull1D
Entries 81
Mean −0.005616
Std Dev 1.099

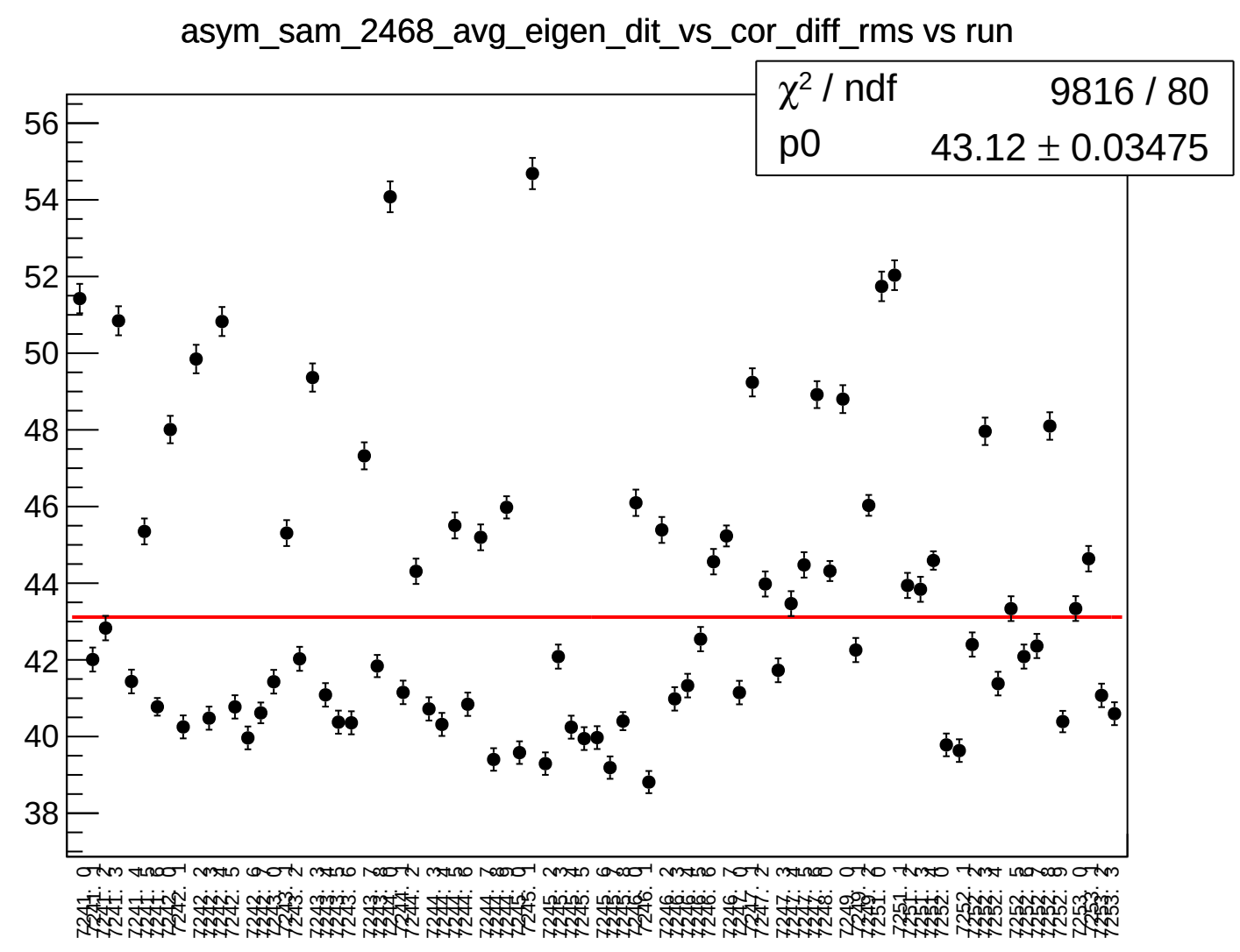

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9818 / 80
p0 43.12 ± 0.03475
56
54
52
50
48
46
44
42
40
38

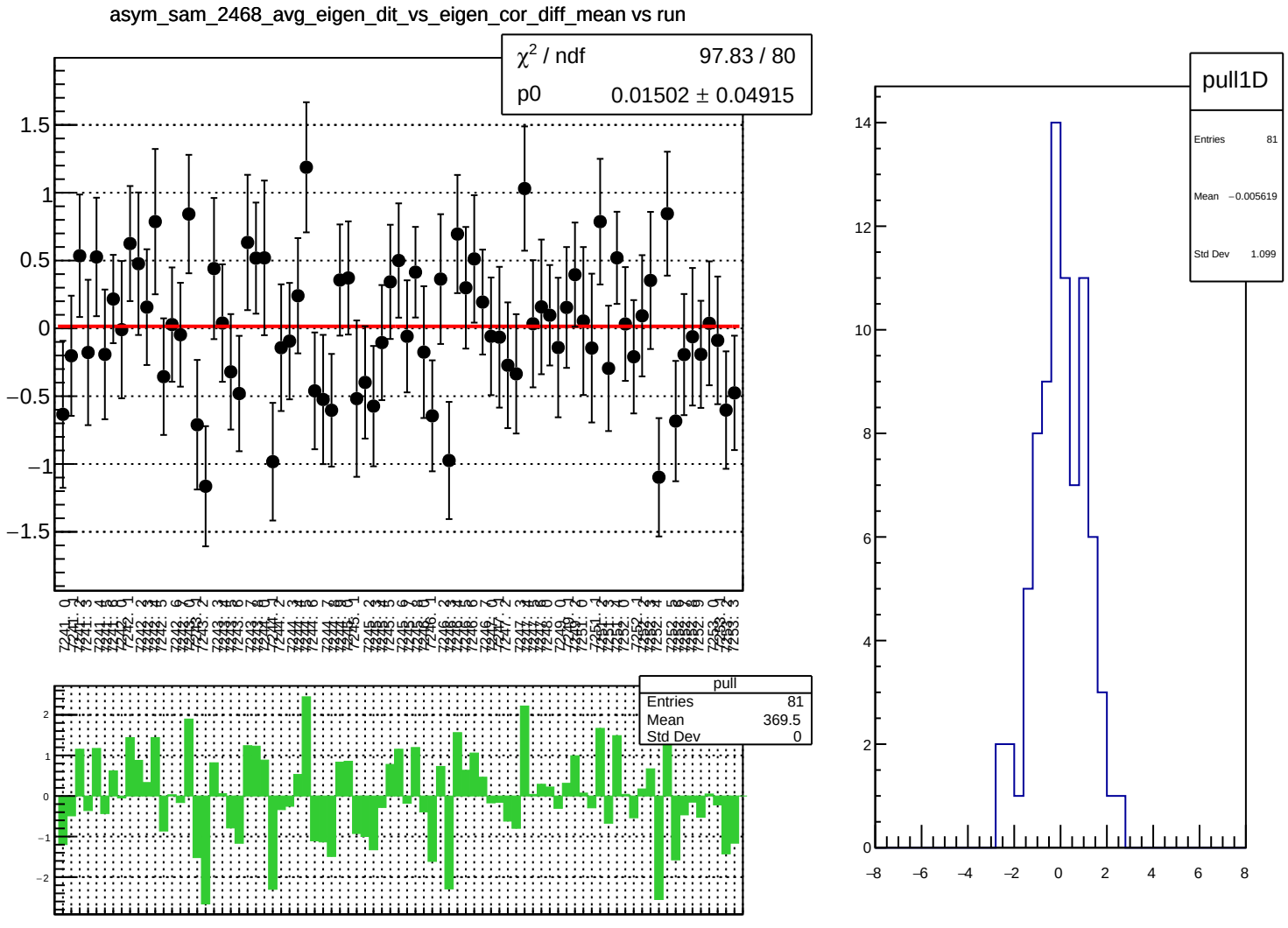

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.73 / 80
p0 −1.806e−06 ± 2.735e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 81
Mean −235.1
Std Dev 0
2
1
0
−1
−2

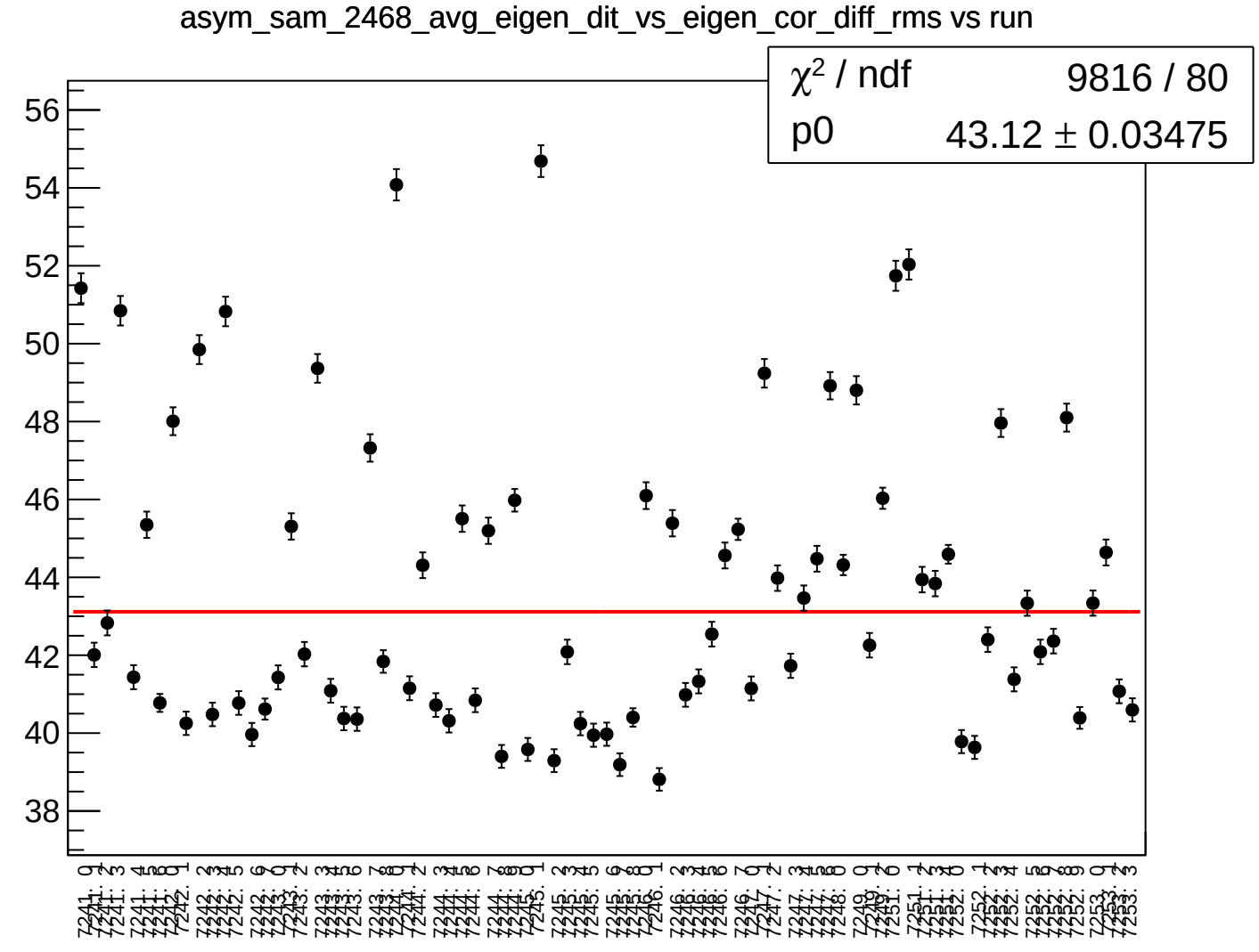

pull1D
Entries 81
Mean −0.02116
Std Dev 1.07
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

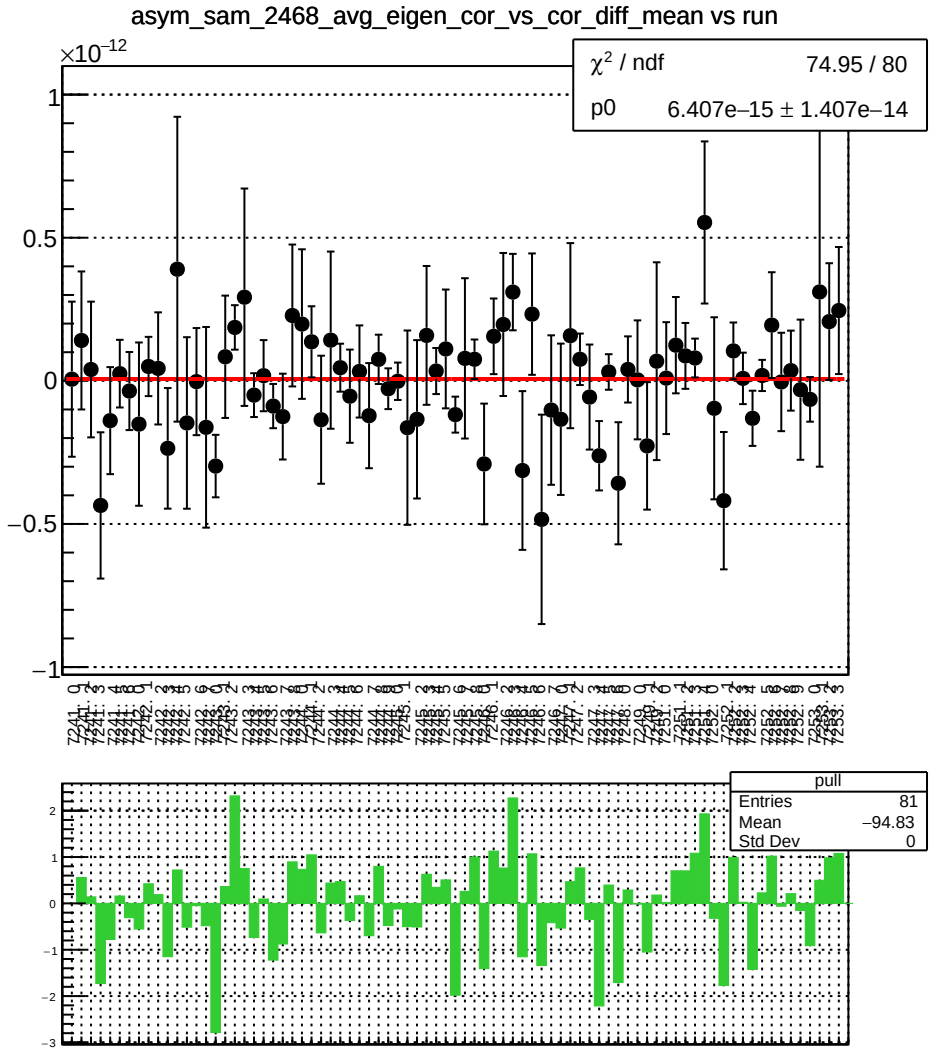

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5359 / 80
p0 0.002403 ± 1.934e−06
0.0029
0.0028
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021

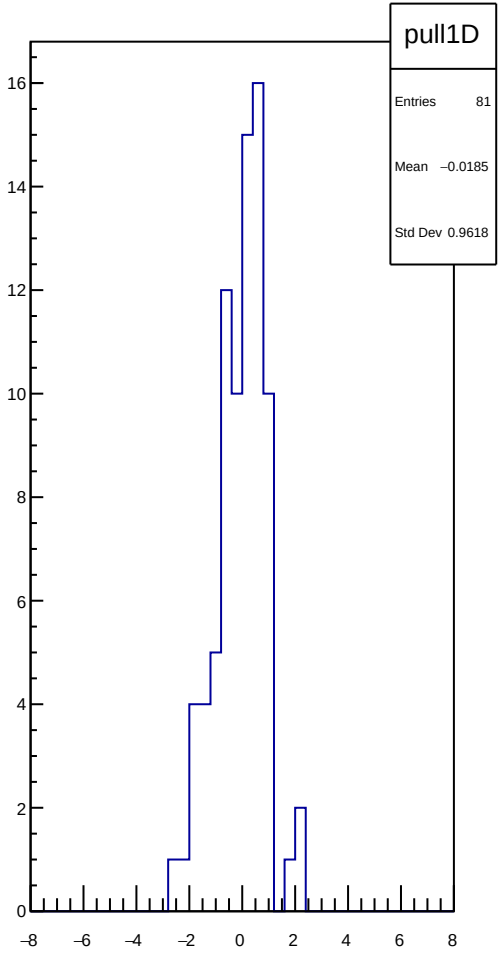

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.83 / 80
p0 0.01502 ± 0.04915
pull
Entries 81
Mean 369.5
Std Dev 0
pull1D
Entries 81
Mean −0.005619
Std Dev 1.099

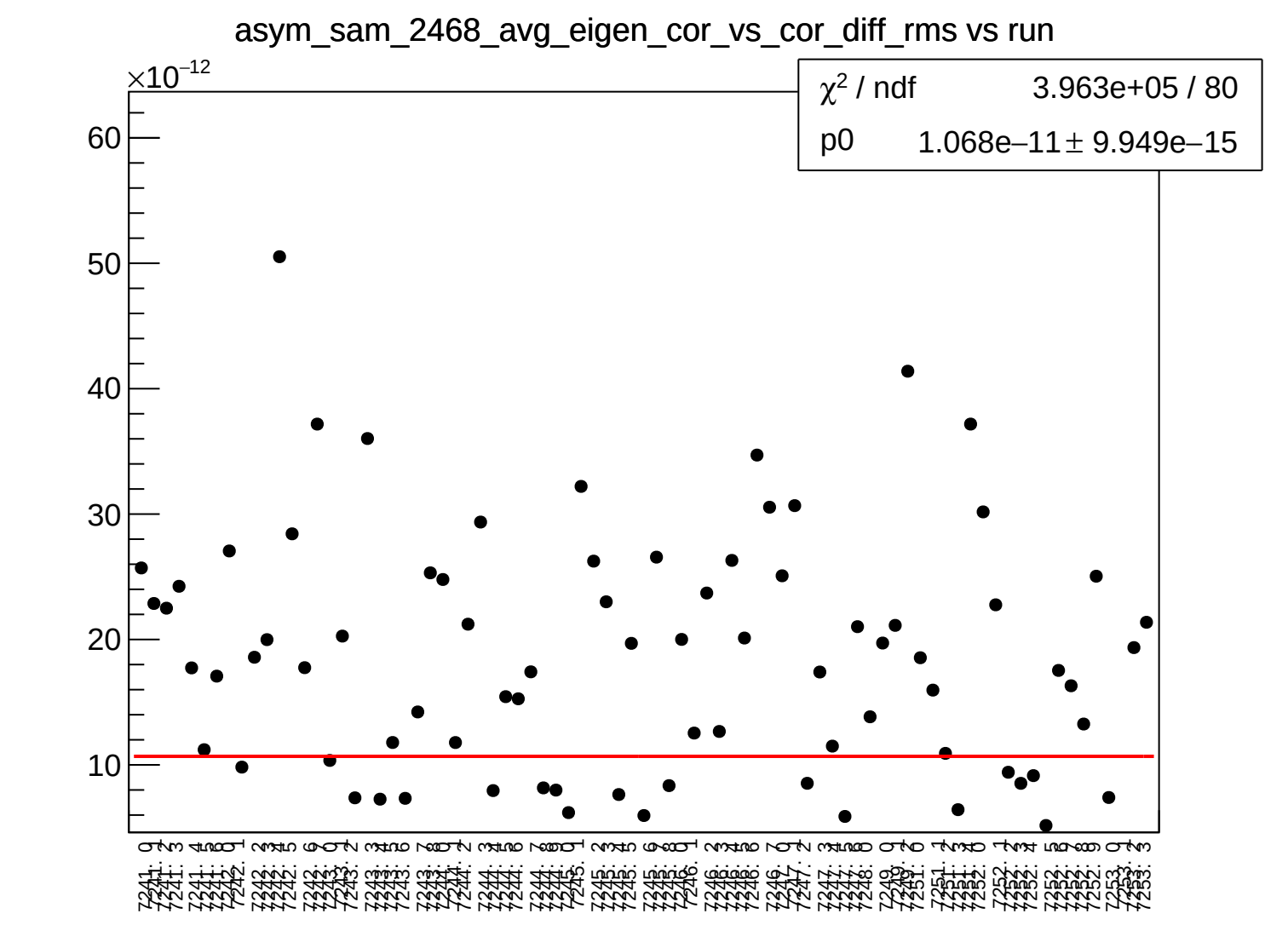

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9816 / 80
p0 43.12 ± 0.03475
56
54
52
50
48
46
44
42
40
38

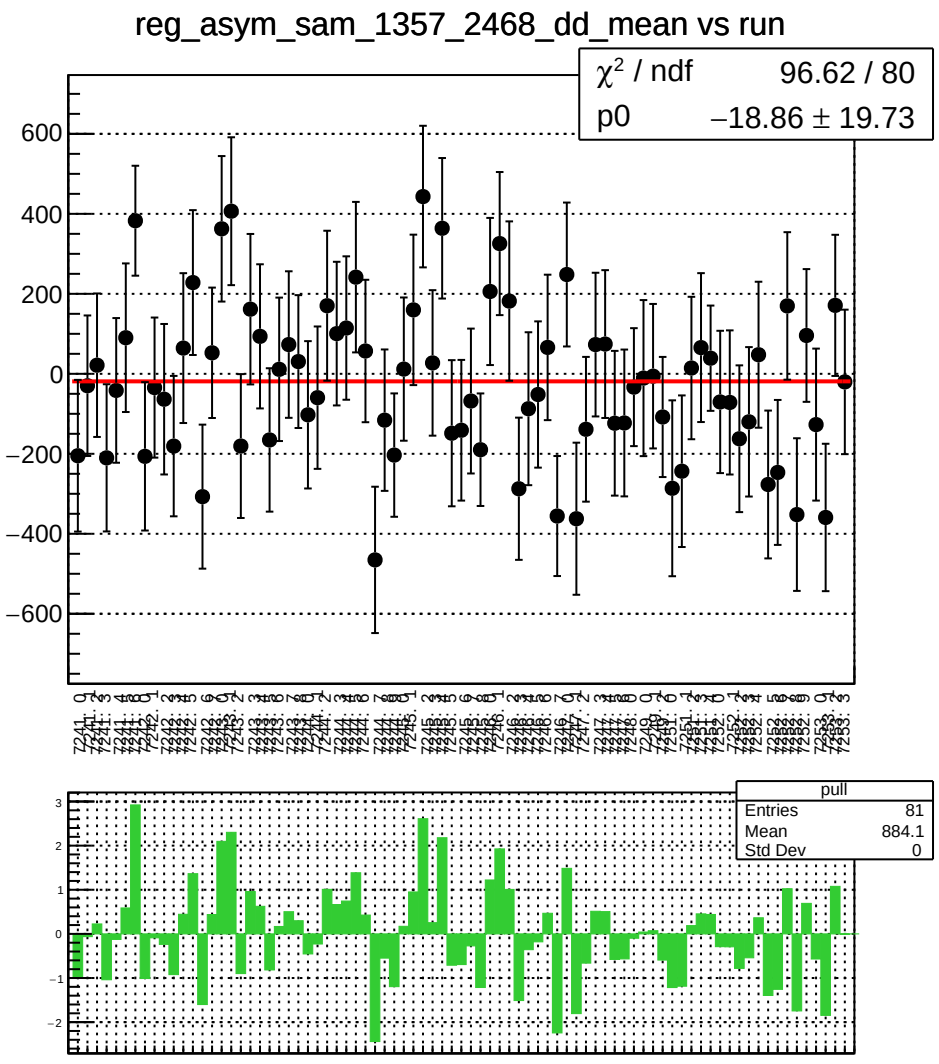

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.83 / 80
p0 0.01502 ± 0.04915
pull
Entries 81
Mean 369.5
Std Dev 0
pull1D
Entries 81
Mean −0.005619
Std Dev 1.099

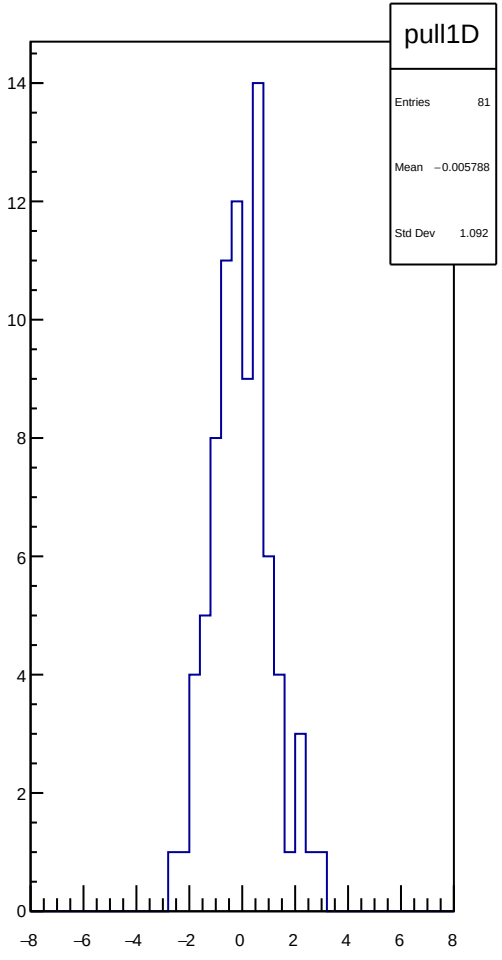

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9816 / 80
p0 43.12 ± 0.03475
56
54
52
50
48
46
44
42
40
38

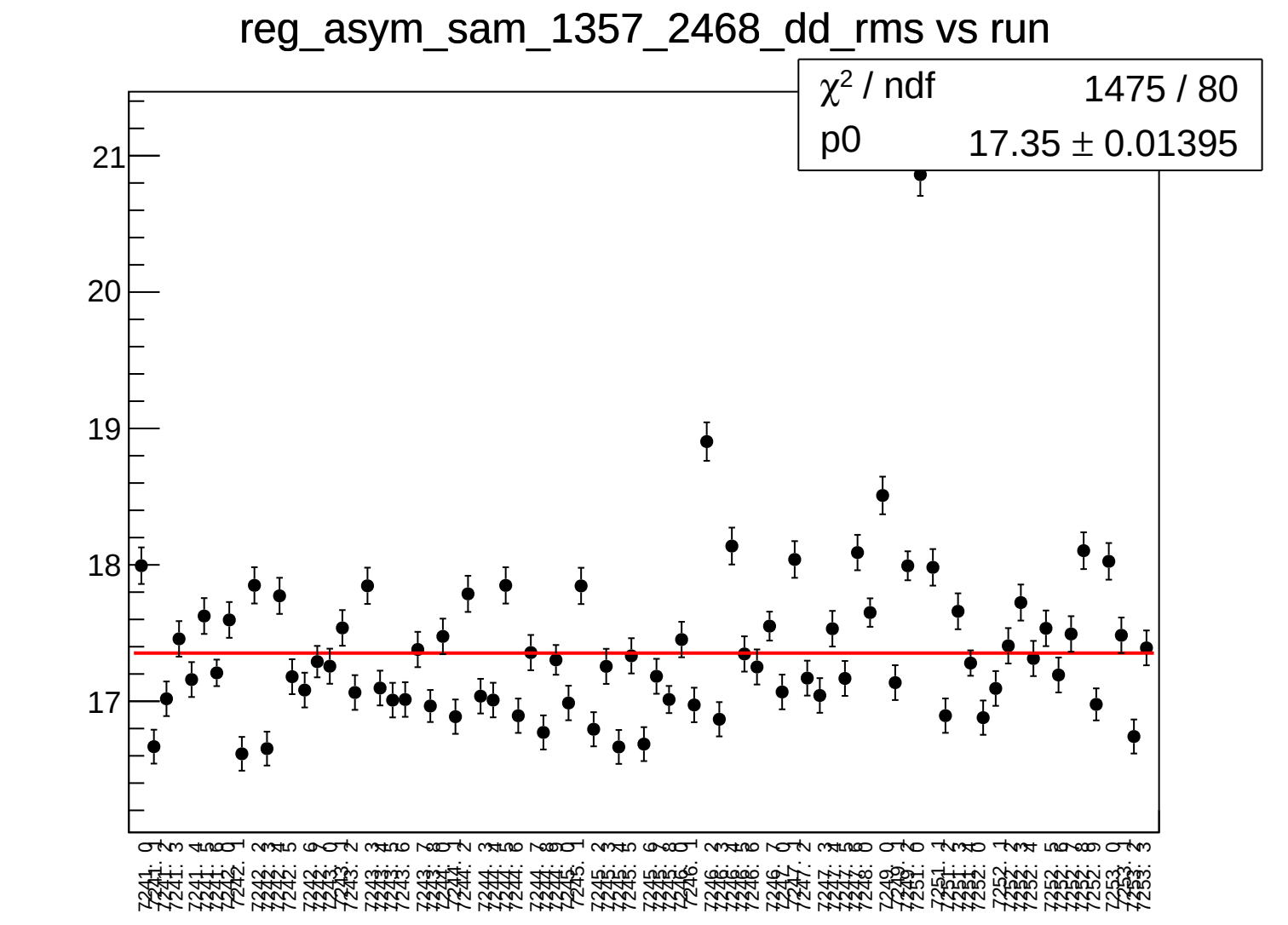

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.95 / 80
p0 6.407e−15 ± 1.407e−14
pull
Entries 81
Mean −94.83
Std Dev 0

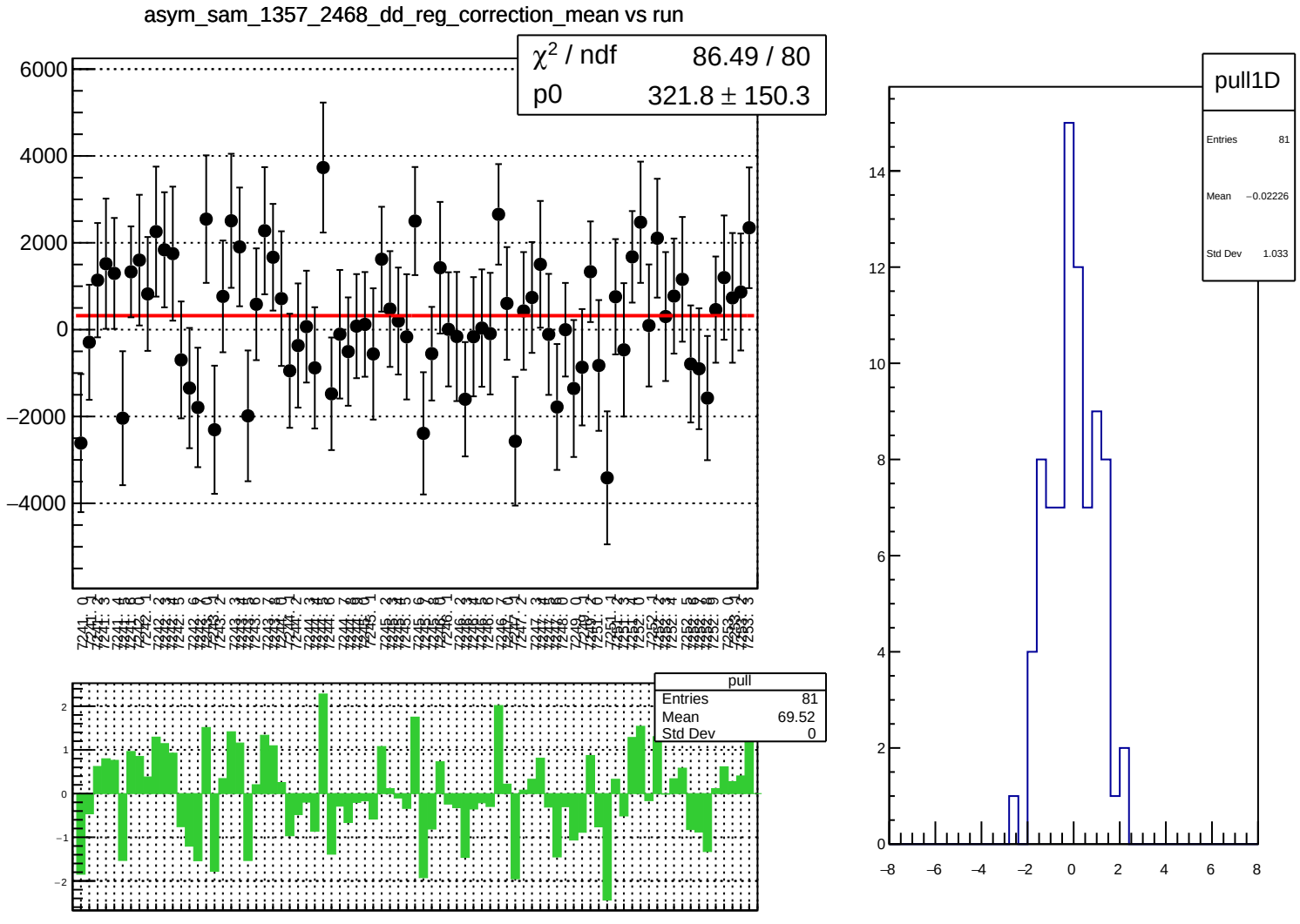

pull1D
Entries 81
Mean −0.0185
Std Dev 0.9618

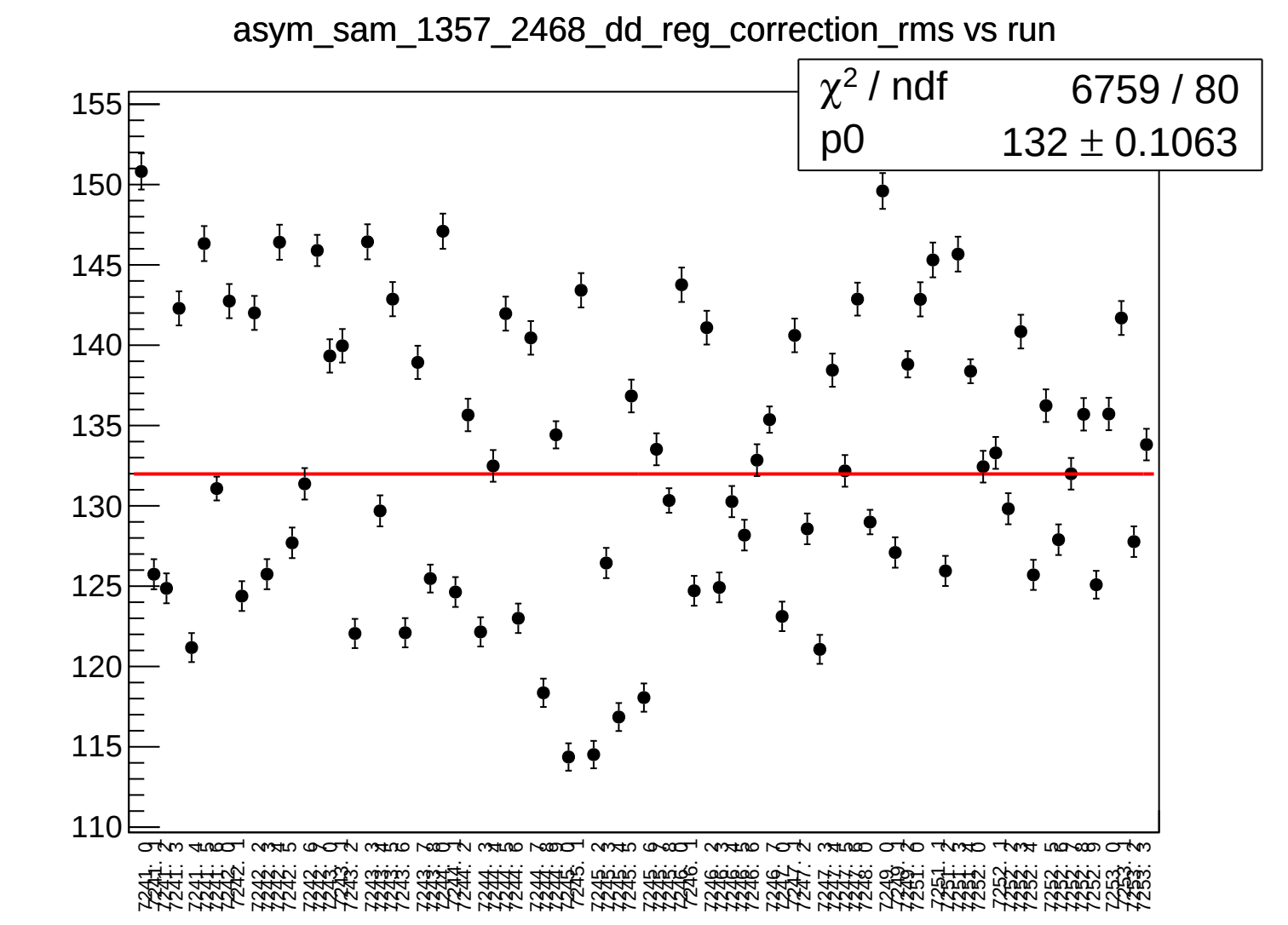

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.963e+05 / 80
p0 1.068e−11 ± 9.949e−15
60
50
40
30
20
10

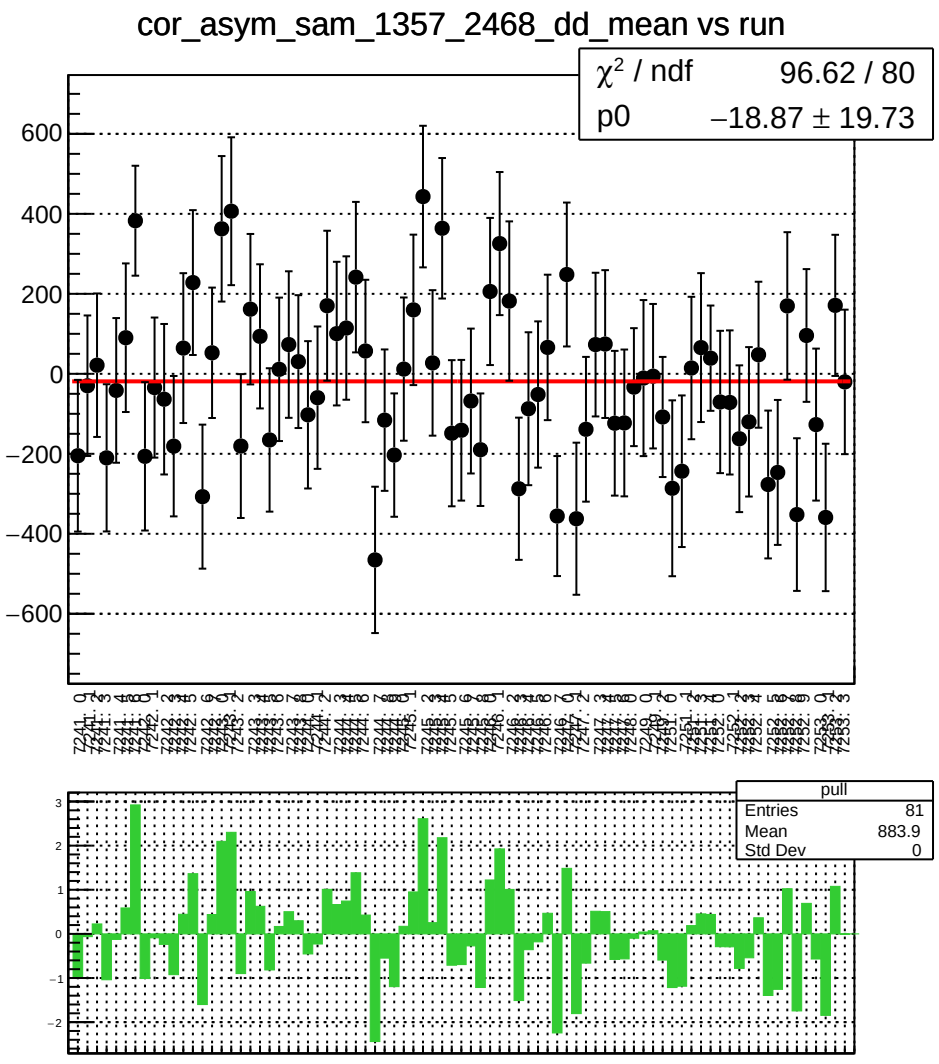

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 96.62 / 80
p0 −18.86 ± 19.73
pull
Entries 81
Mean 884.1
Std Dev 0

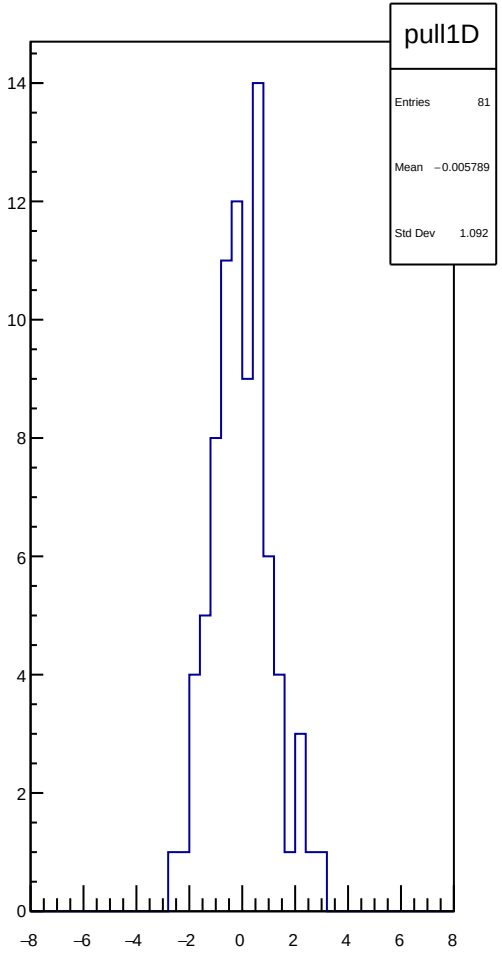

pull1D
Entries 81
Mean −0.005788
Std Dev 1.092

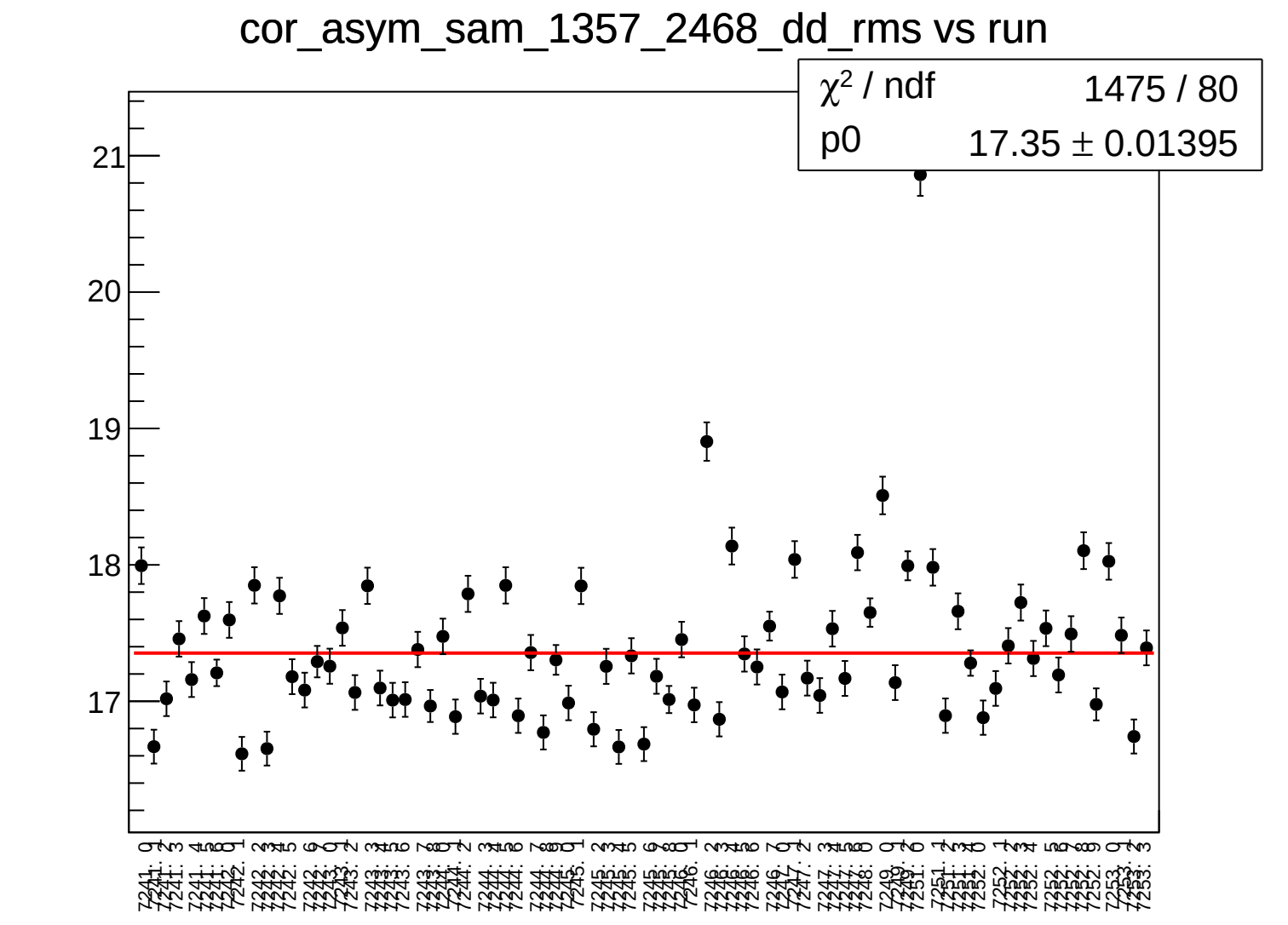

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1475 / 80
p0 17.35 ± 0.01395
21
20
19
18
17

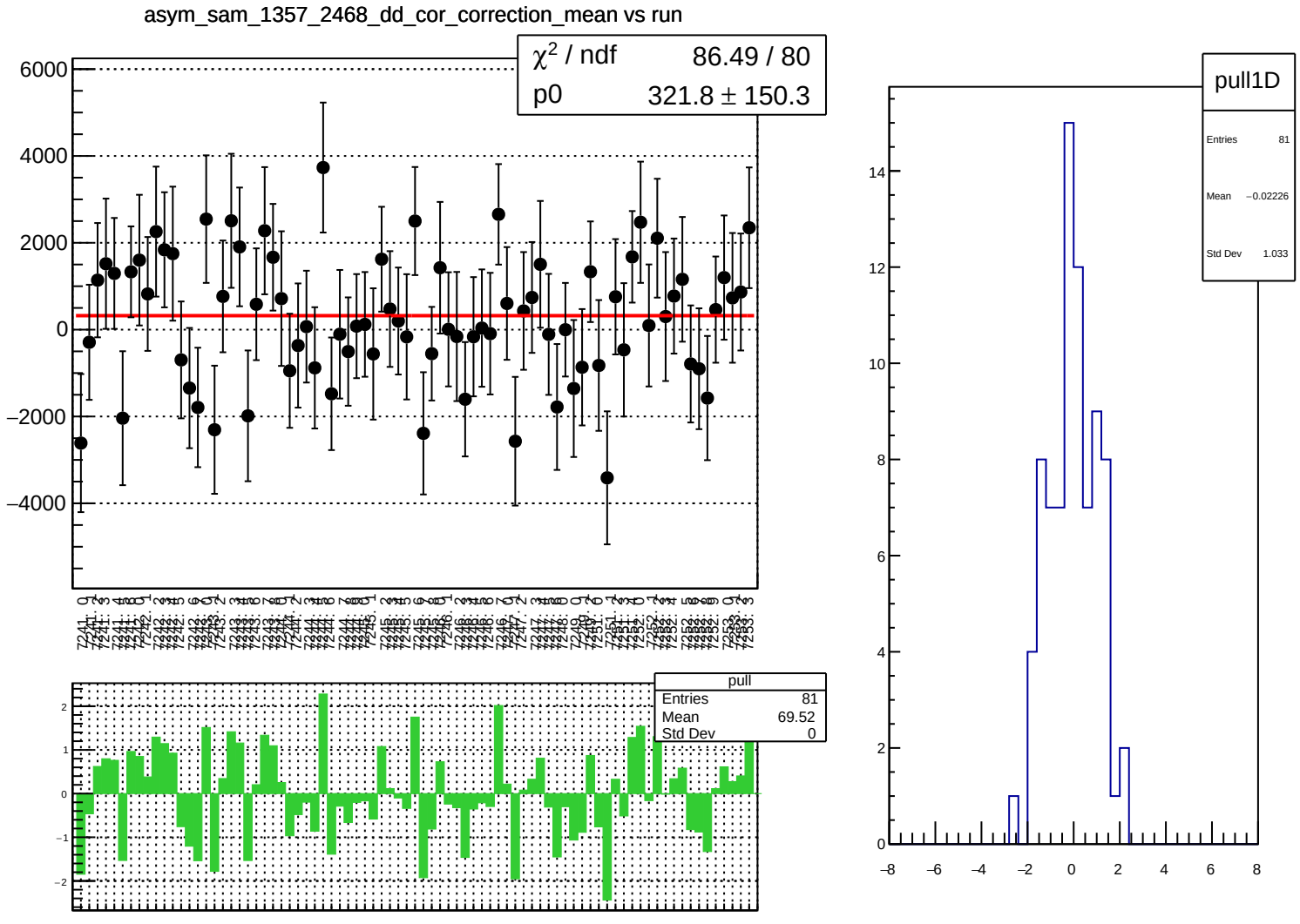

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 86.49 / 80
p0 321.8 ± 150.3
6000
4000
2000
0
−2000
−4000
pull
Entries 81
Mean 69.52
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 81
Mean −0.02226
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

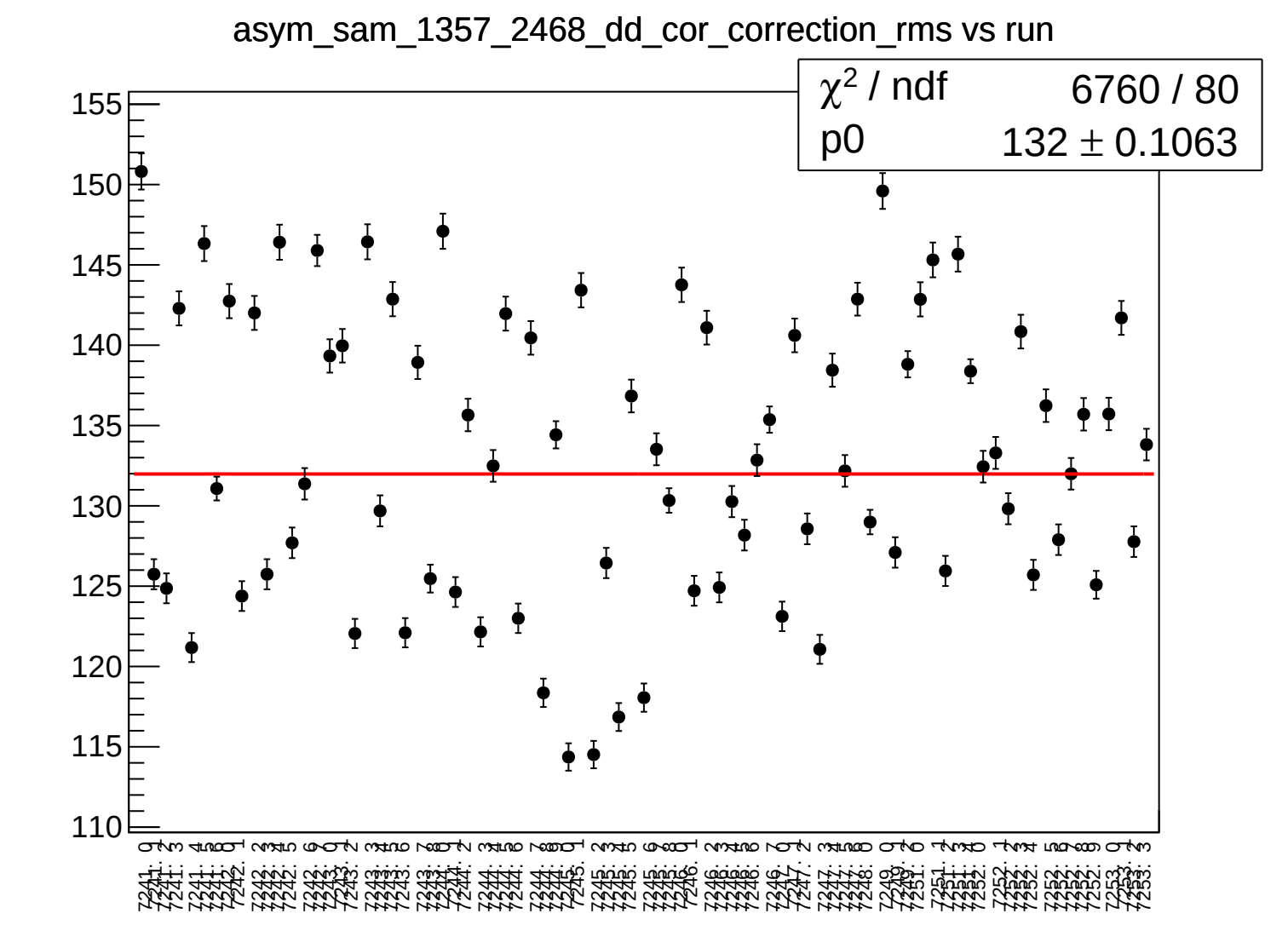

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ^2 / ndf 6759 / 80
p0 132 ± 0.1063
155
150
145
140
135
130
125
120
115
110

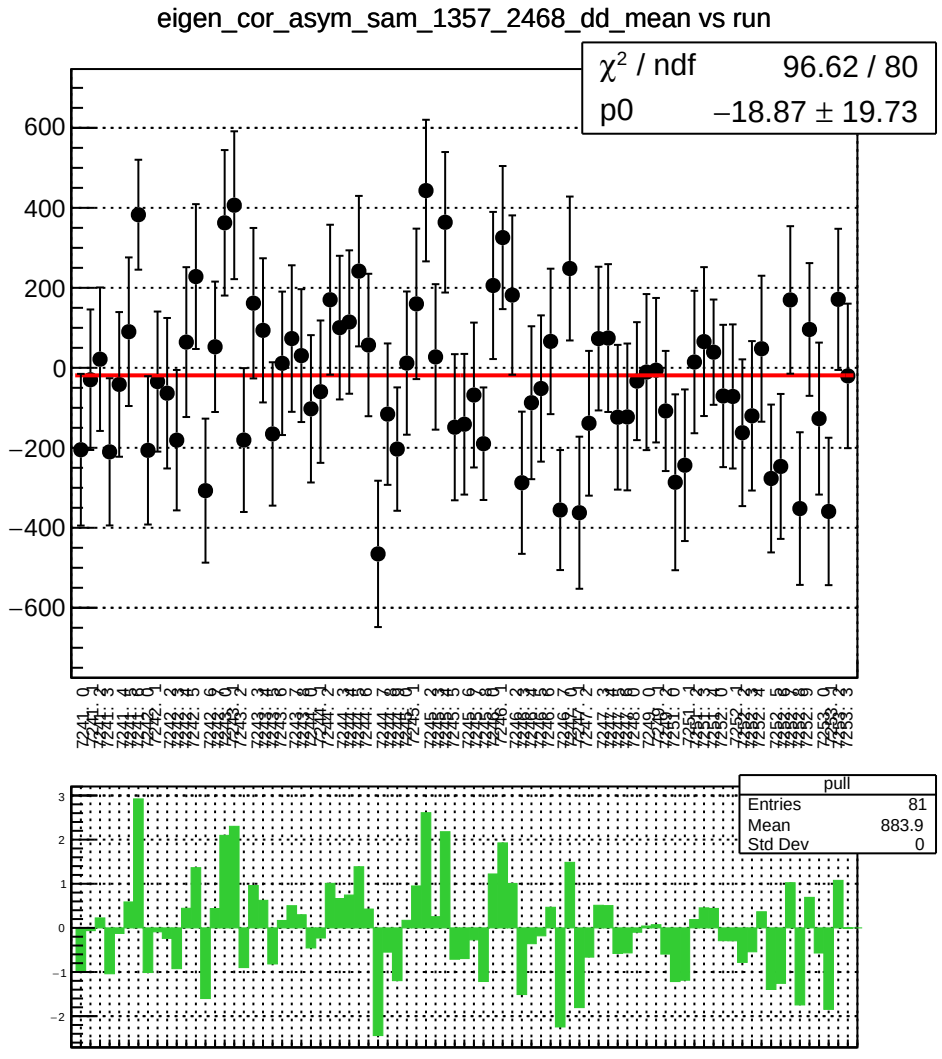

cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 96.62 / 80
p0 −18.87 ± 19.73
pull
Entries 81
Mean 883.9
Std Dev 0

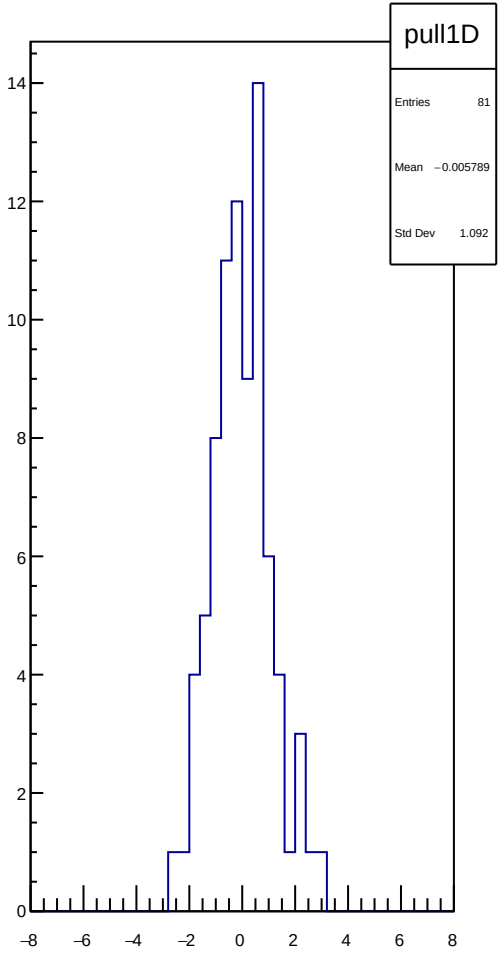

pull1D
Entries 81
Mean −0.005789
Std Dev 1.092

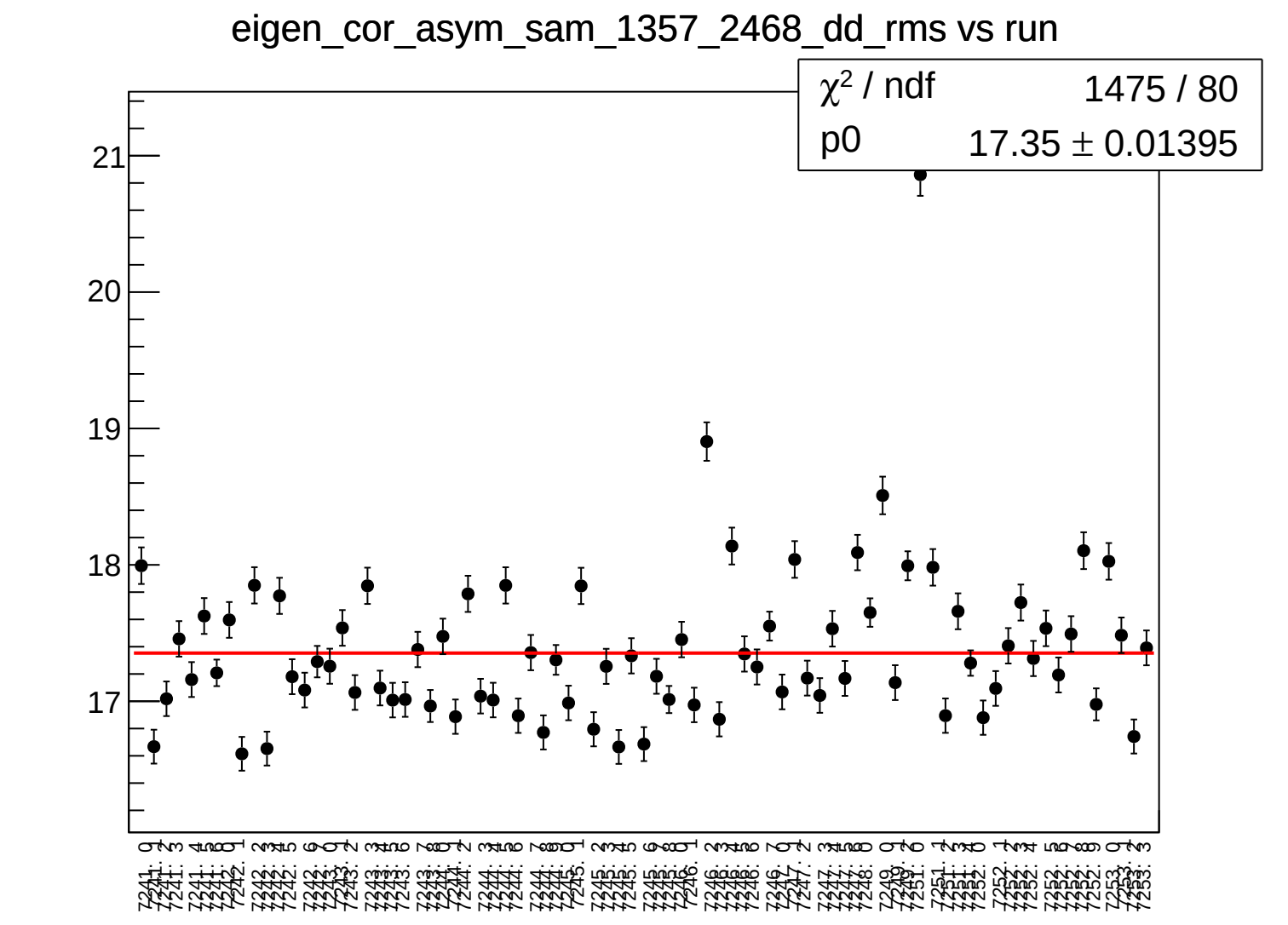

cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1475 / 80
p0 17.35 ± 0.01395
21
20
19
18
17

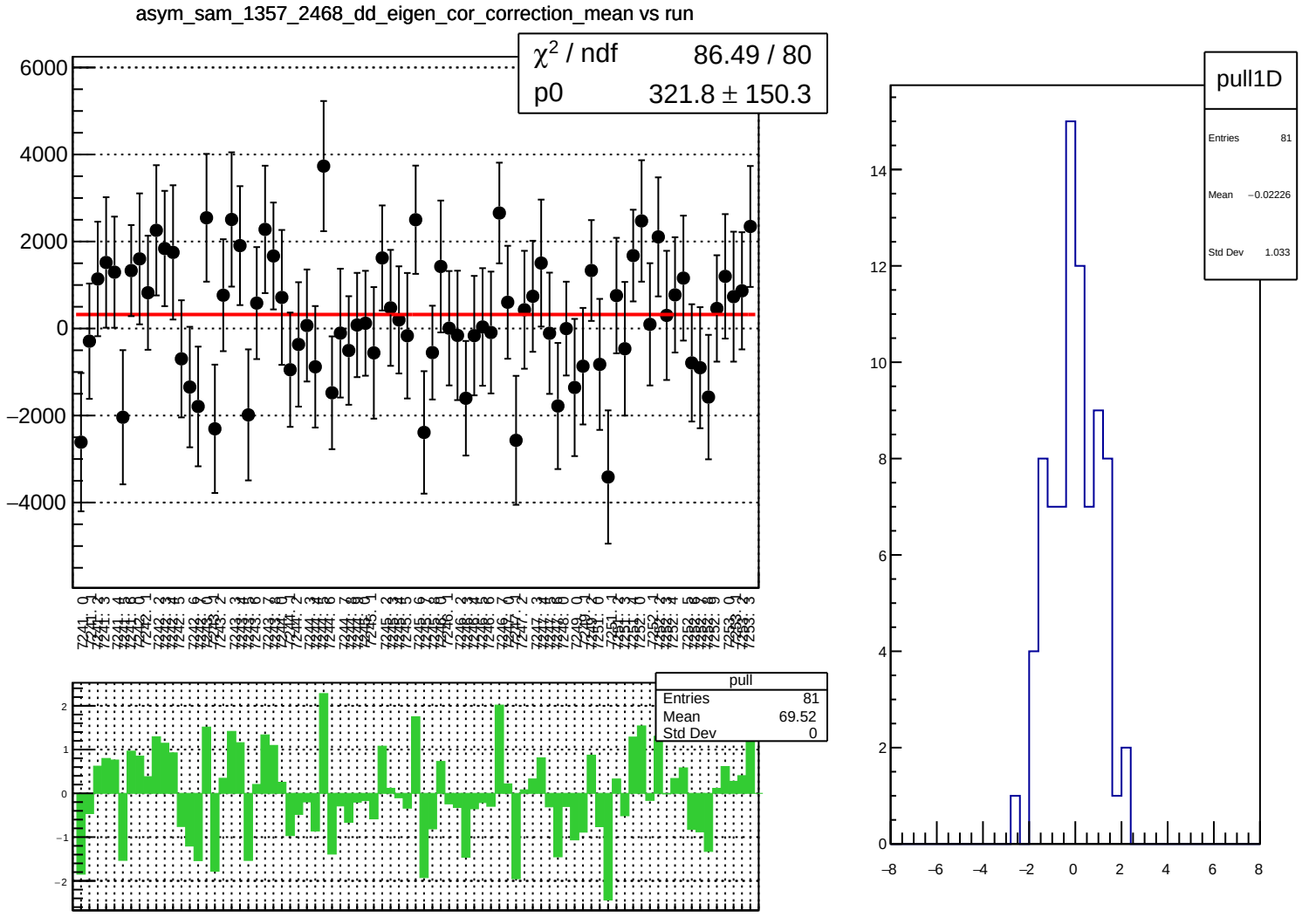

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 86.49 / 80
p0 321.8 ± 150.3
pull
Entries 81
Mean 69.52
Std Dev 0
pull1D
Entries 81
Mean −0.02226
Std Dev 1.033

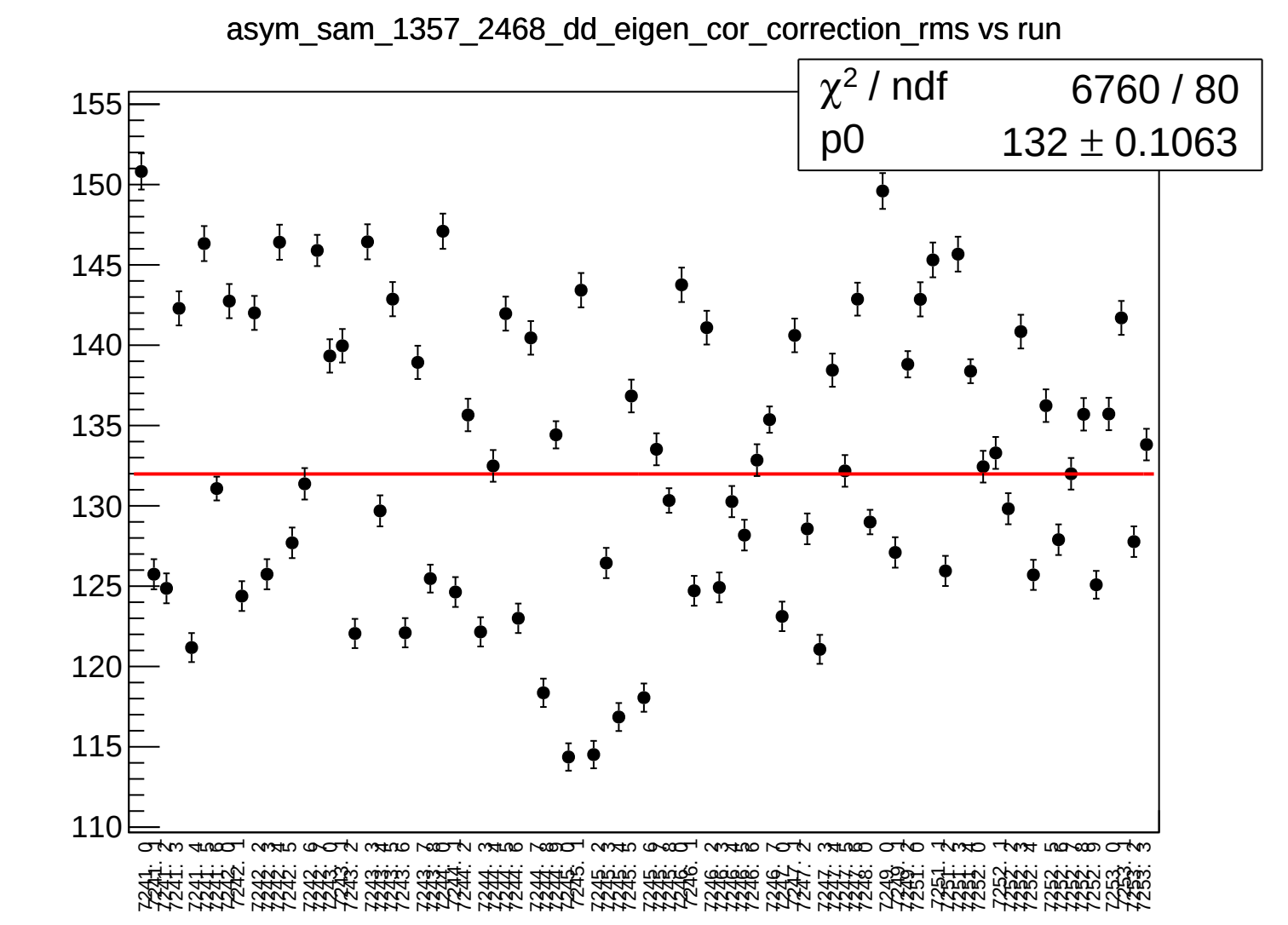

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ^2 / ndf 6760 / 80
p0 132 ± 0.1063
155
150
145
140
135
130
125
120
115
110

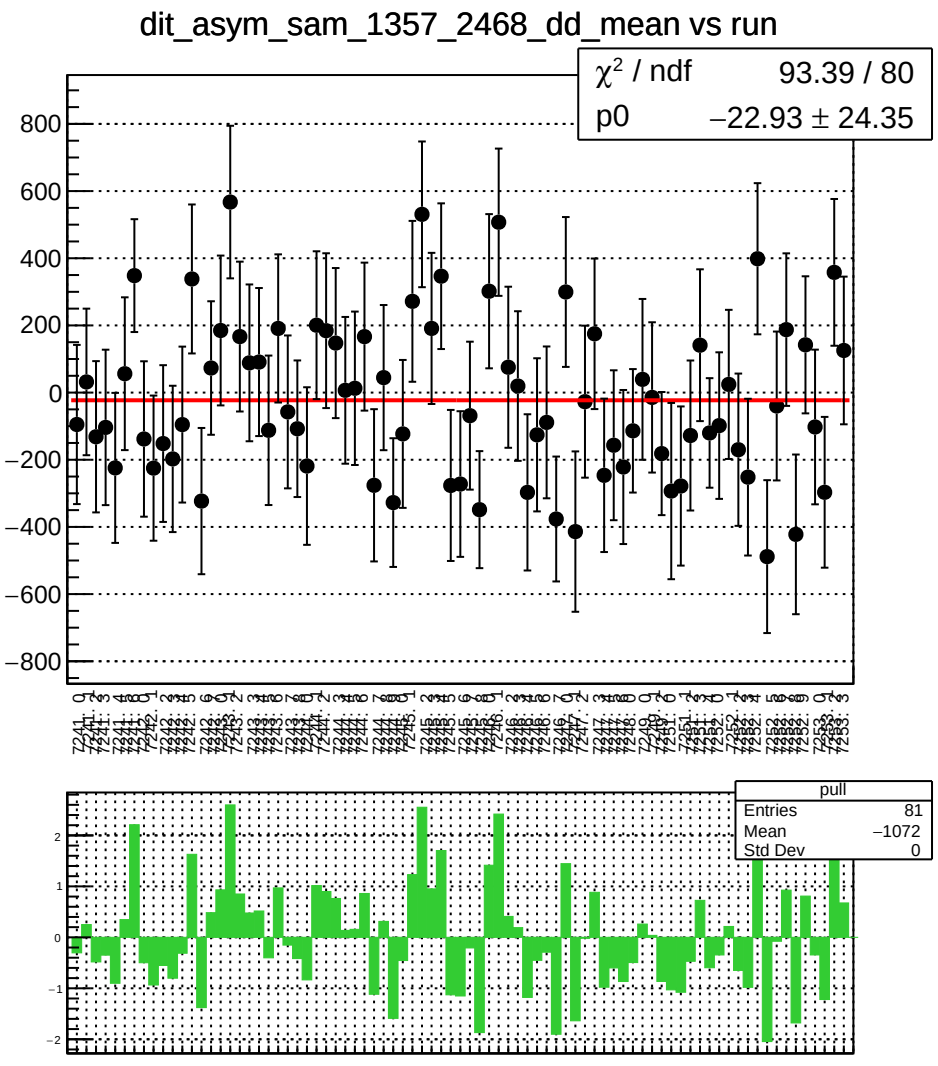

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 96.62 / 80
p0 −18.87 ± 19.73
pull
Entries 81
Mean 883.9
Std Dev 0

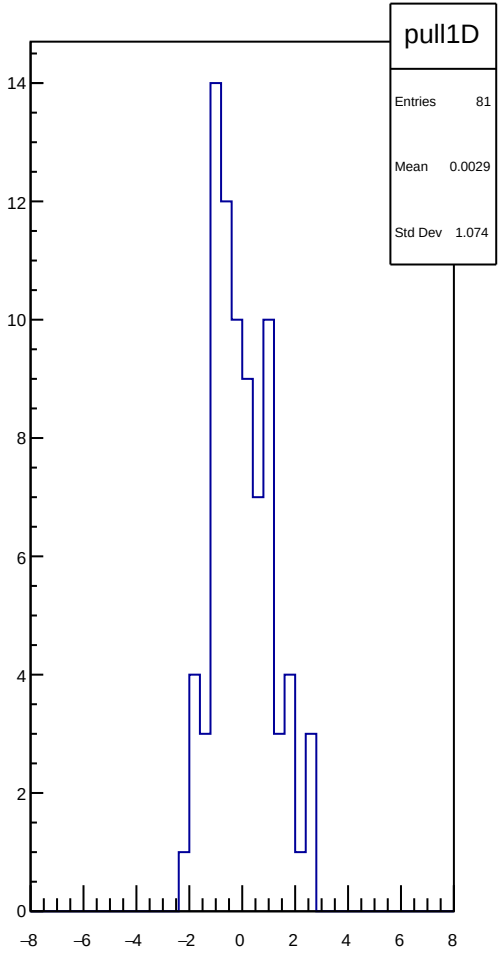

pull1D
Entries 81
Mean −0.005789
Std Dev 1.092

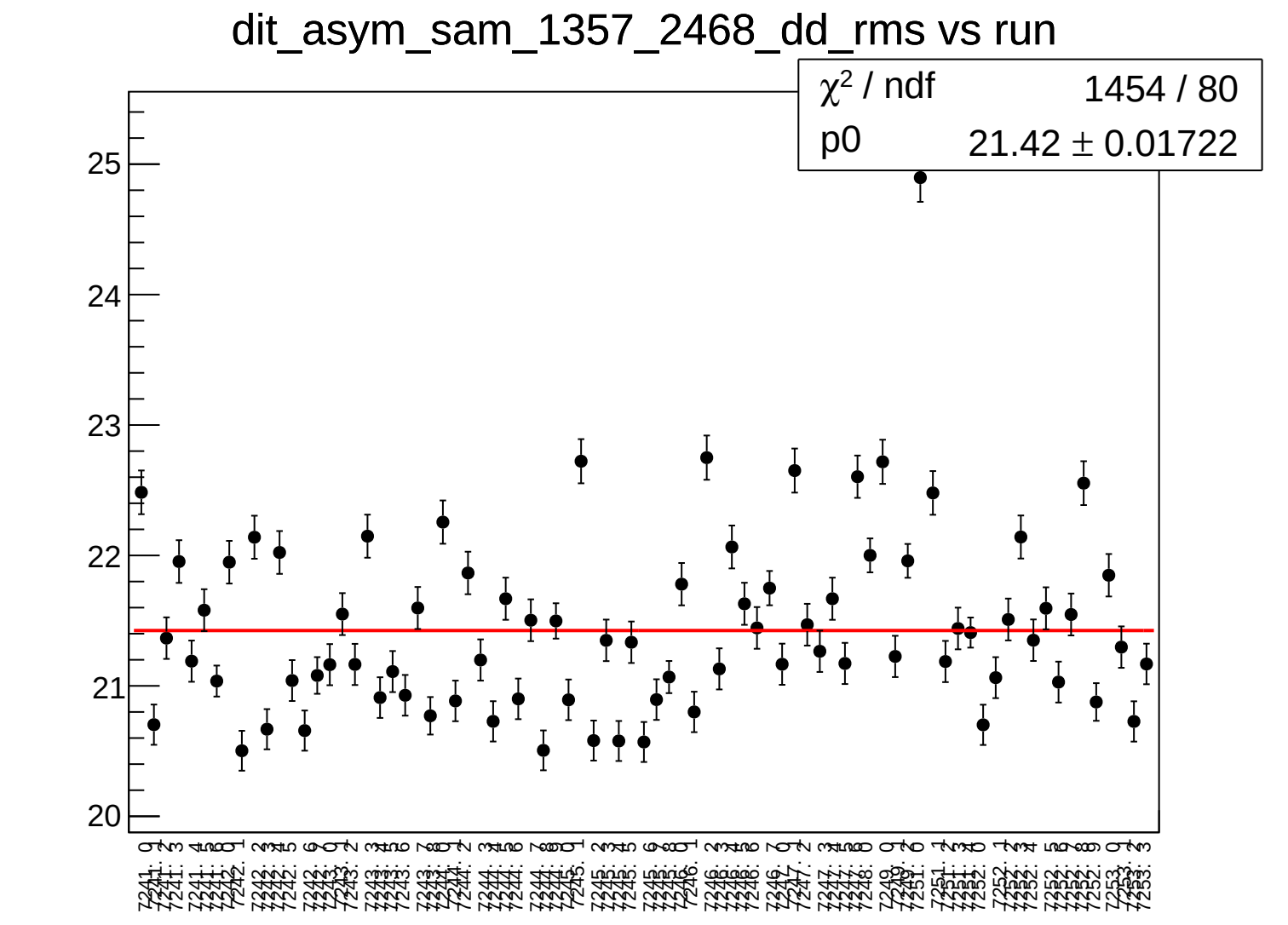

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1475 / 80
p0 17.35 ± 0.01395
21
20
19
18
17

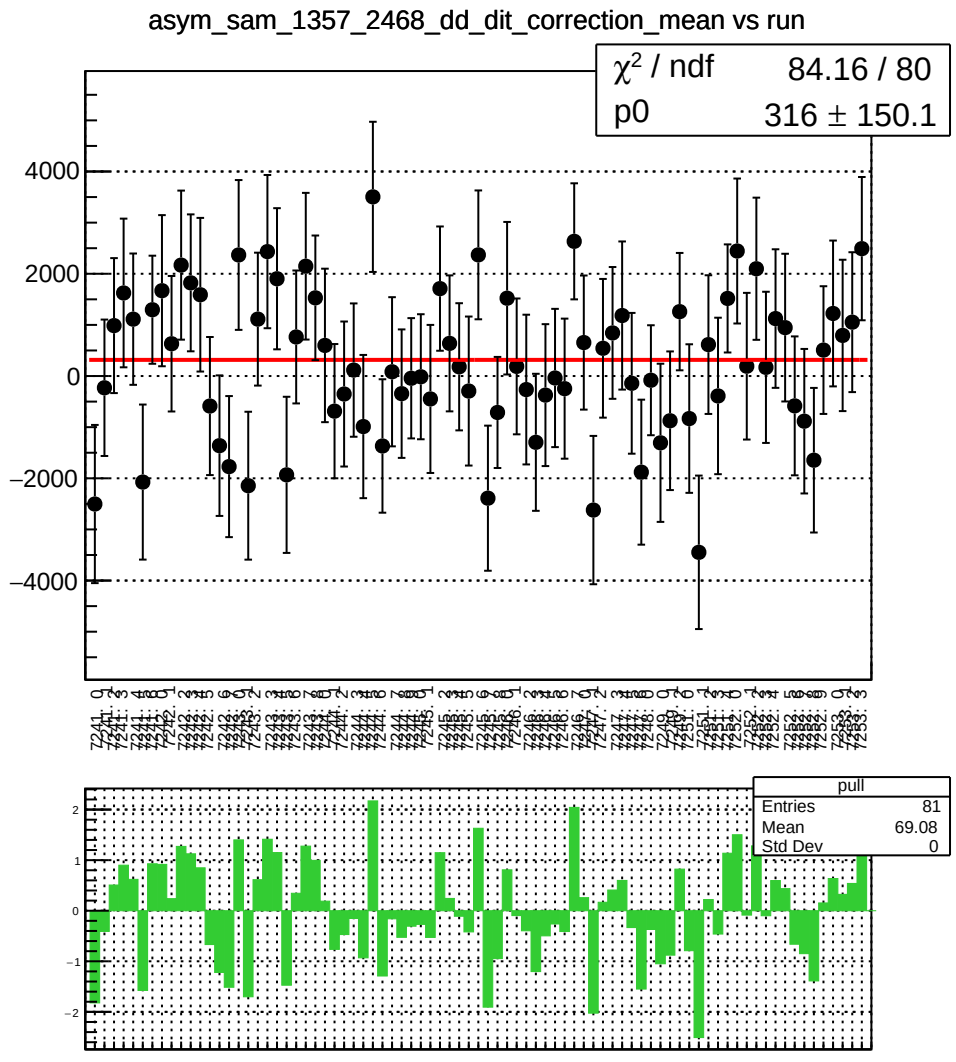

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 86.49 / 80
p0 321.8 ± 150.3
6000
4000
2000
0
−2000
−4000
pull
Entries 81
Mean 69.52
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 81
Mean −0.02226
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

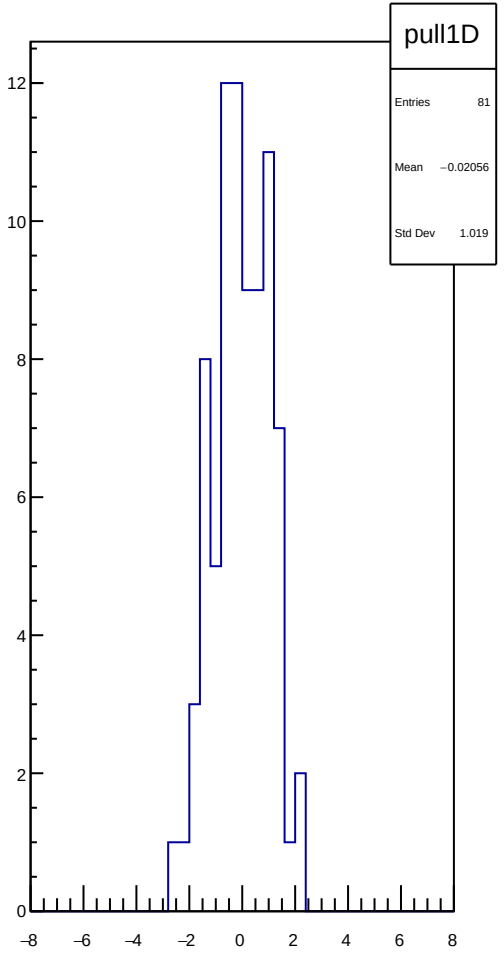

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 6760 / 80
p0 132 ± 0.1063
155
150
145
140
135
130
125
120
115
110

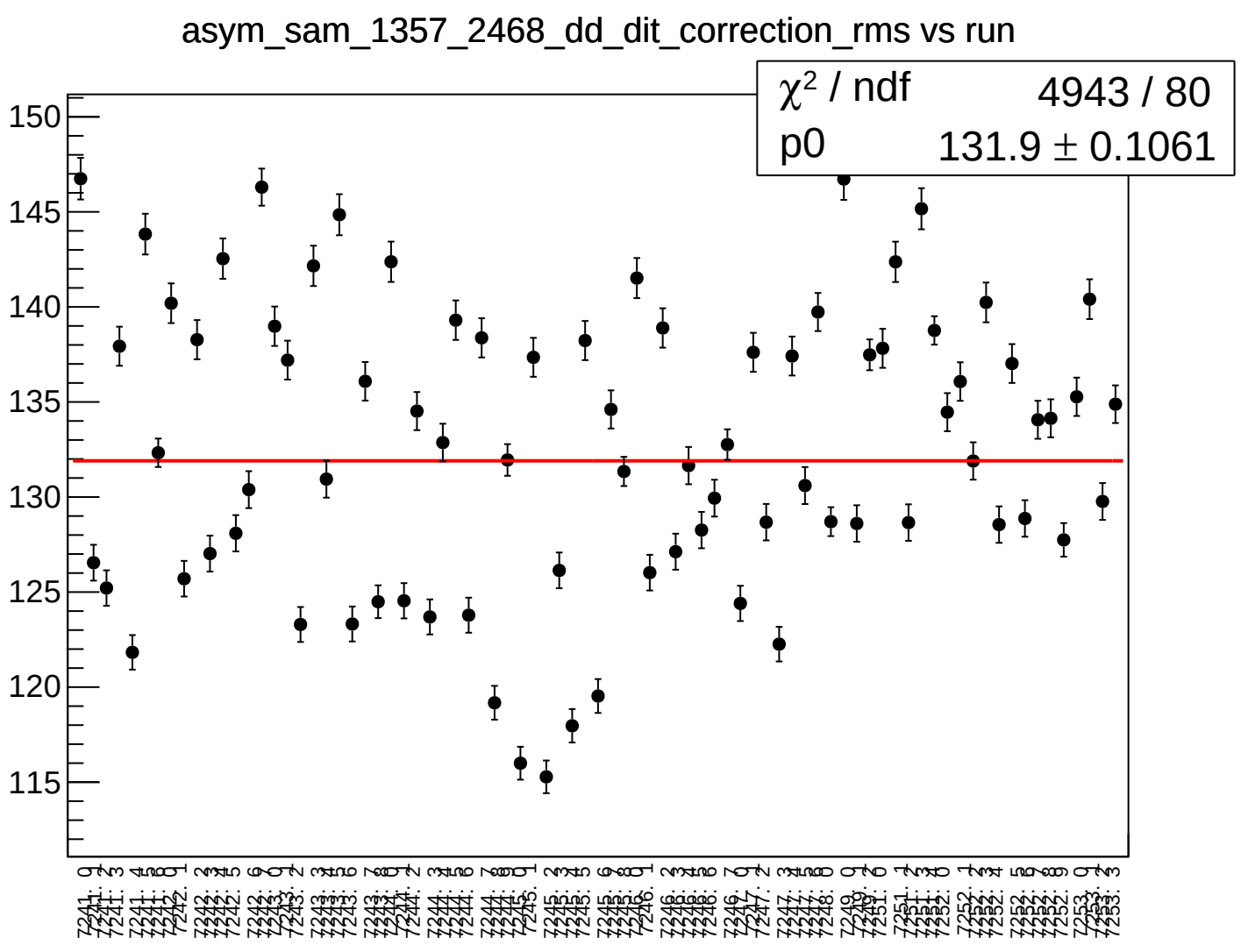

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 93.39 / 80
p0 −22.93 ± 24.35
pull
Entries 81
Mean −1072
Std Dev 0

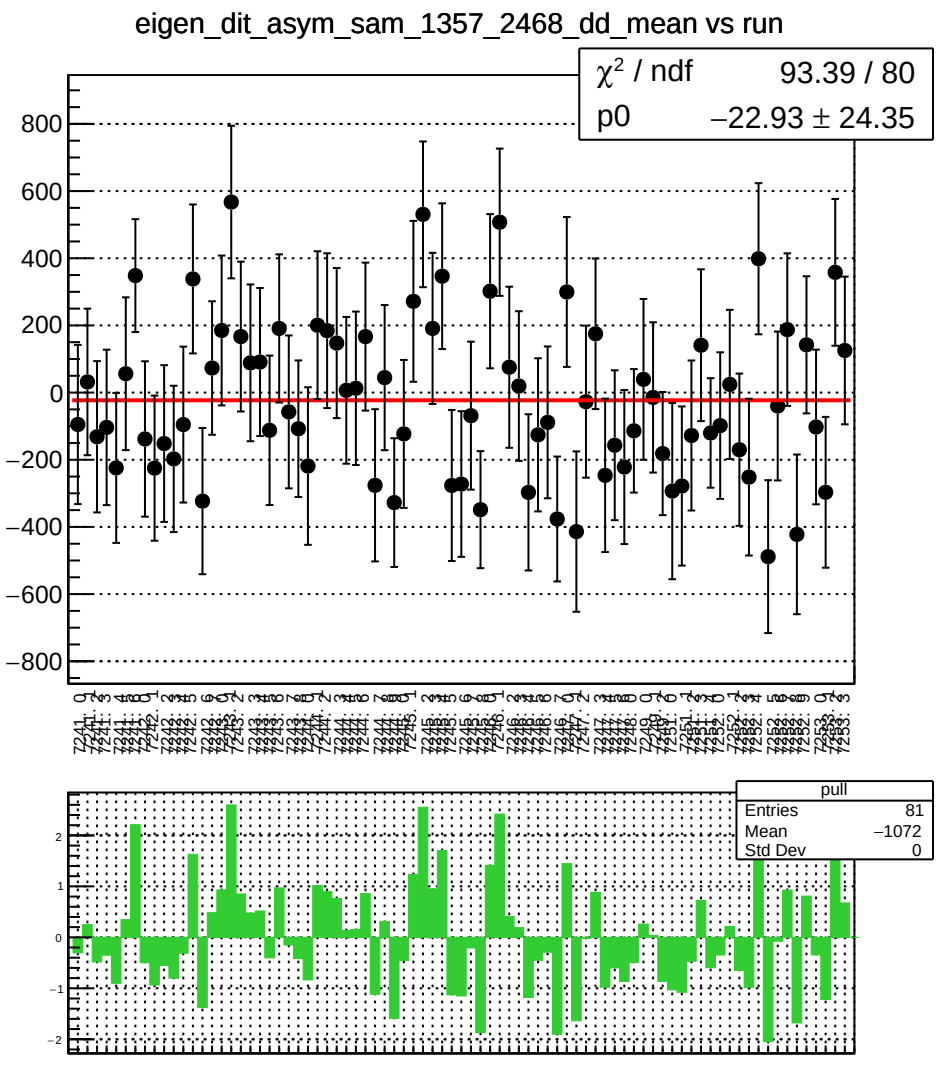

pull1D
Entries 81
Mean 0.0029
Std Dev 1.074

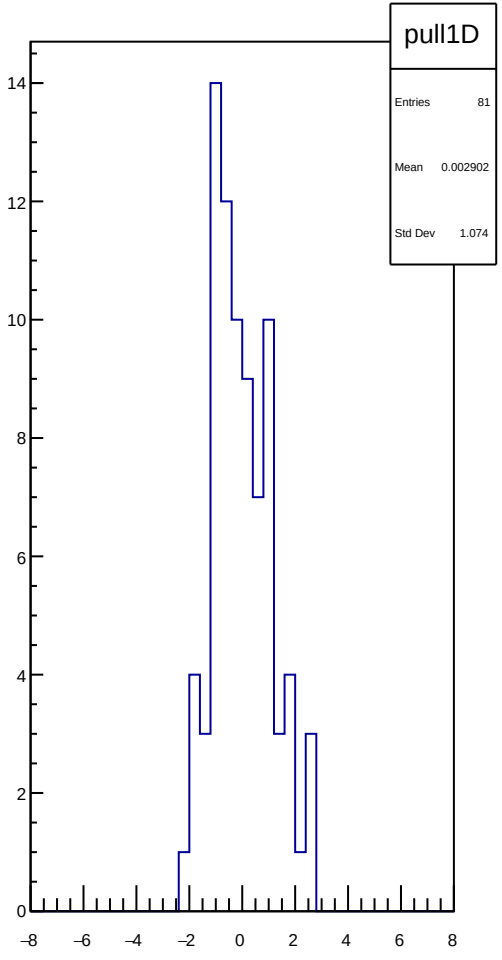

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1454 / 80
p0 21.42 ± 0.01722
25
24
23
22
21
20

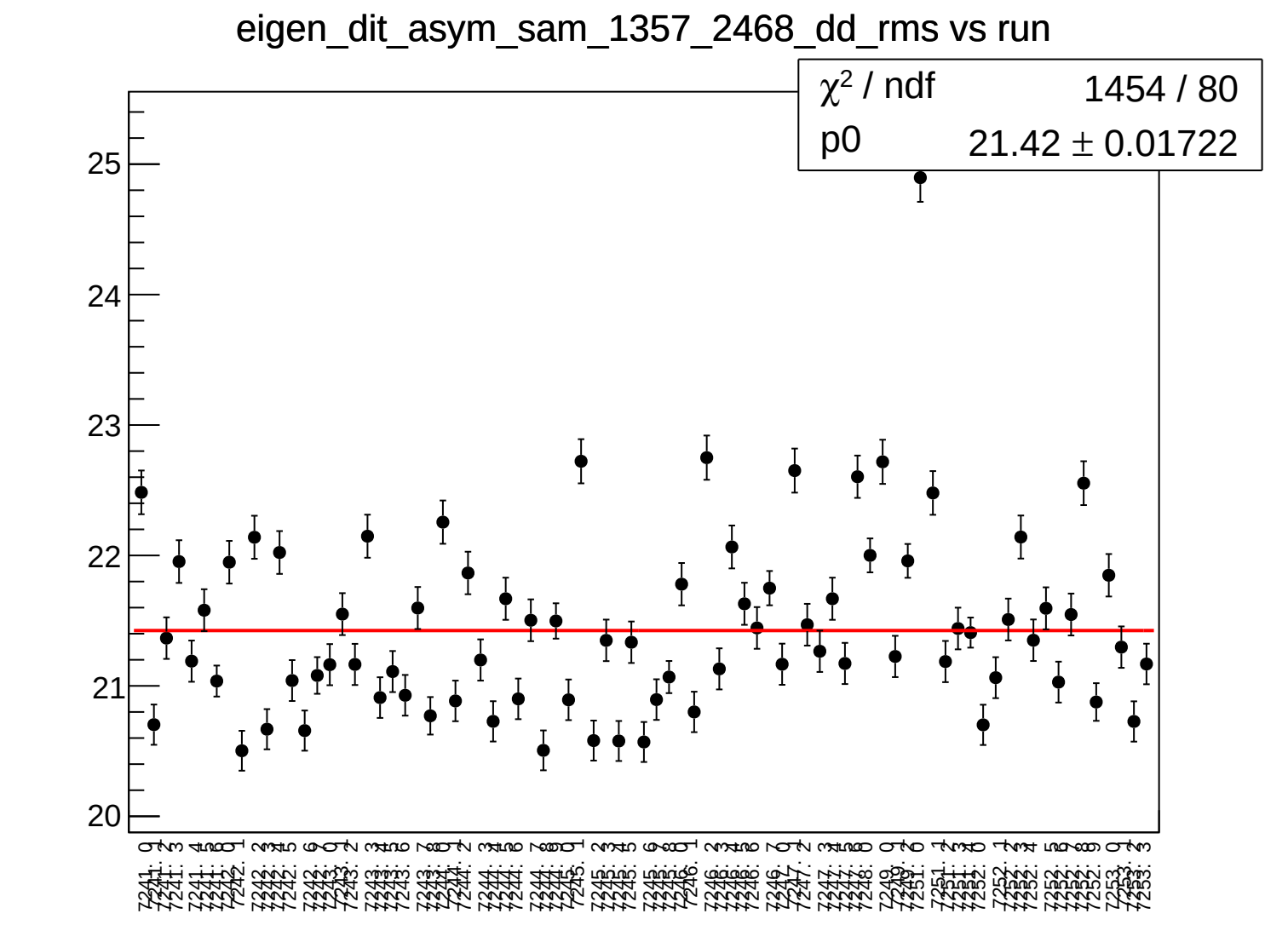

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 84.16 / 80
p0 316 ± 150.1
4000
2000
0
−2000
−4000
pull
Entries 81
Mean 69.08
Std Dev 0
2
1
0
−1
−2

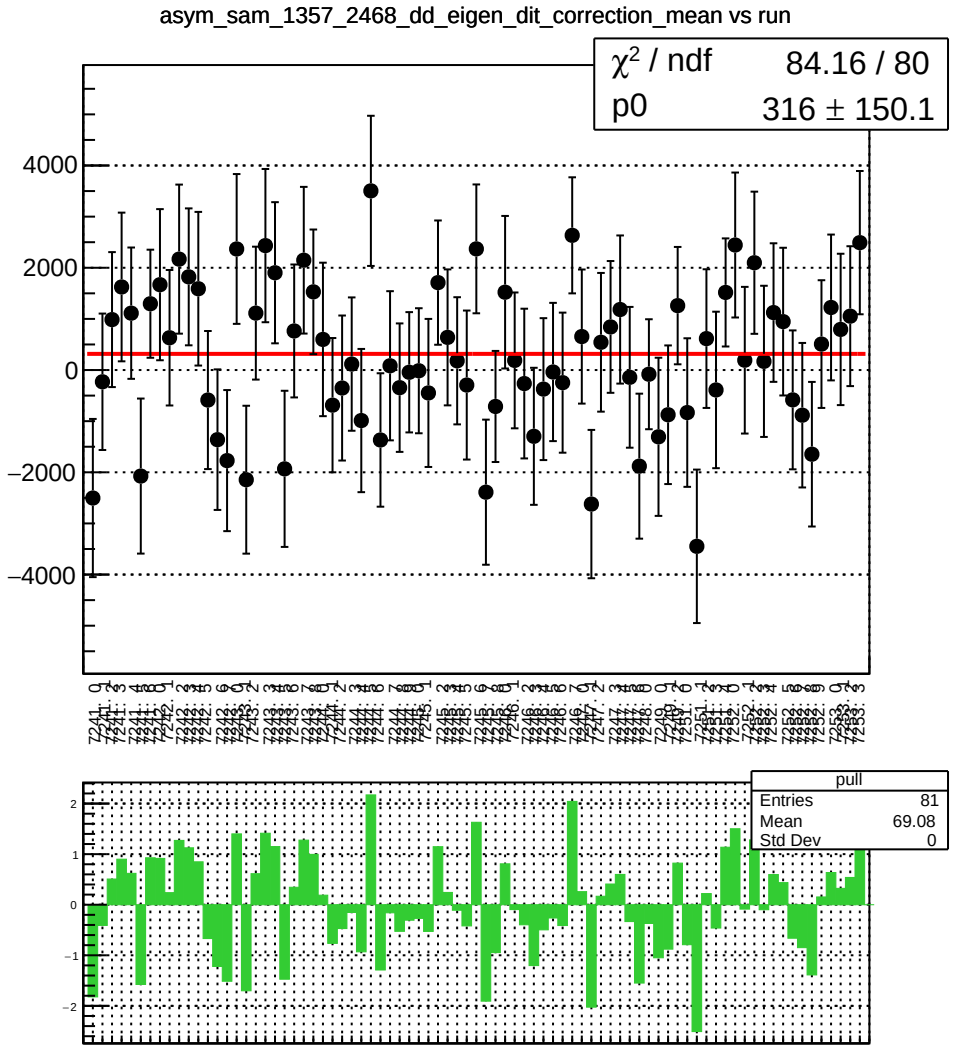

pull1D
Entries 81
Mean −0.02056
Std Dev 1.019
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

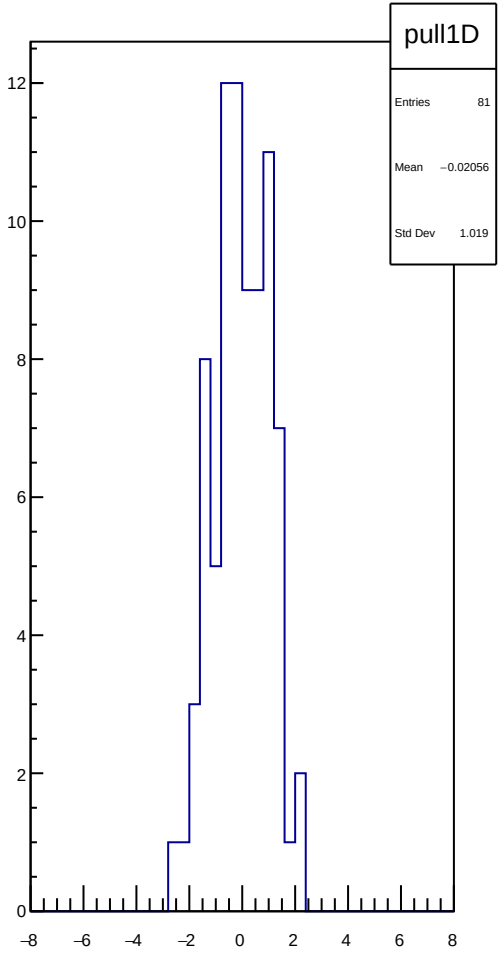

asym_sam_1357_2468_dd_dit_correction_rms vs run
χ² / ndf 4943 / 80
p0 131.9 ± 0.1061
150
145
140
135
130
125
120
115

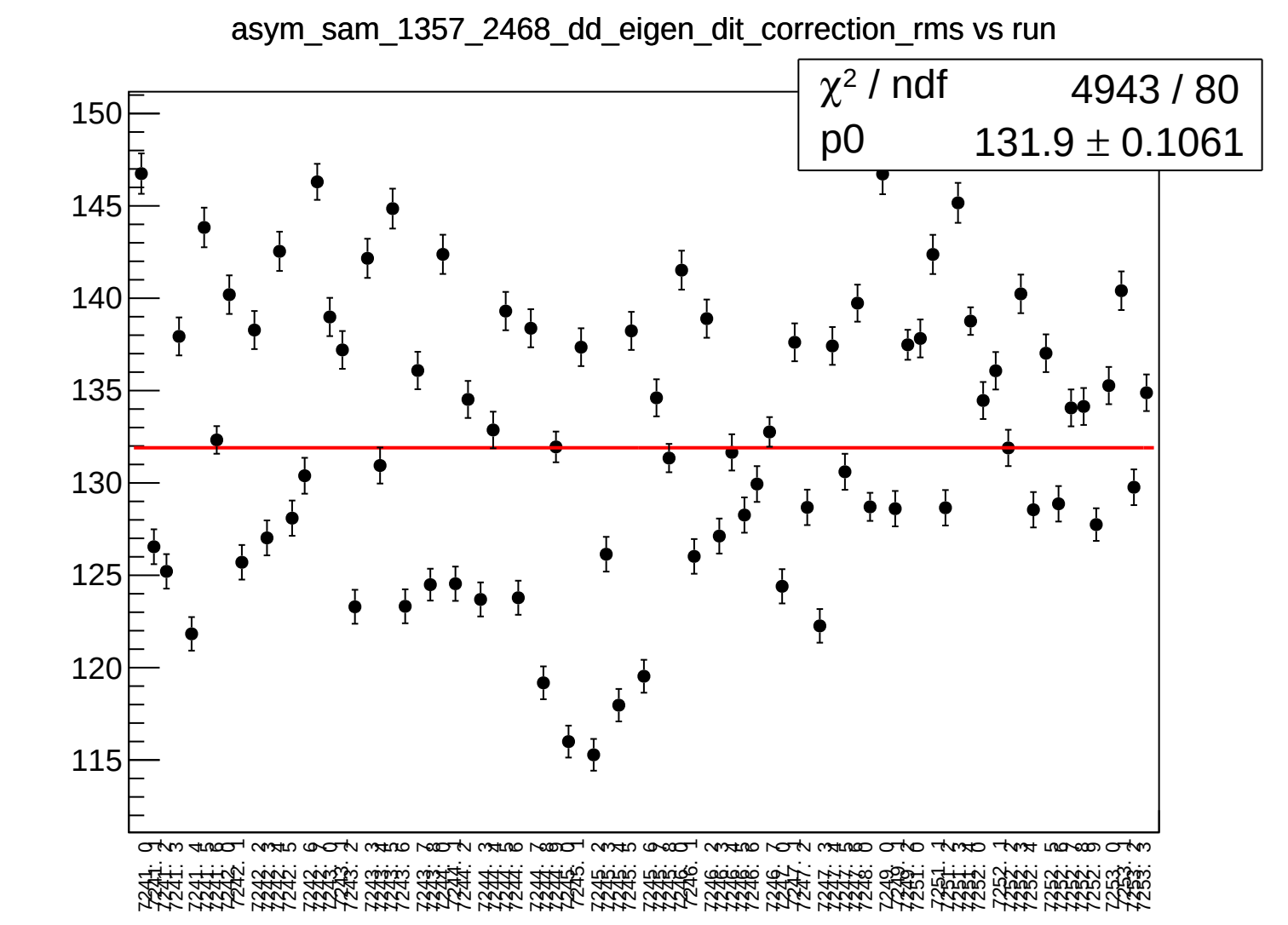

eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ^2 / ndf 93.39 / 80
p0 −22.93 ± 24.35
pull
Entries 81
Mean −1072
Std Dev 0

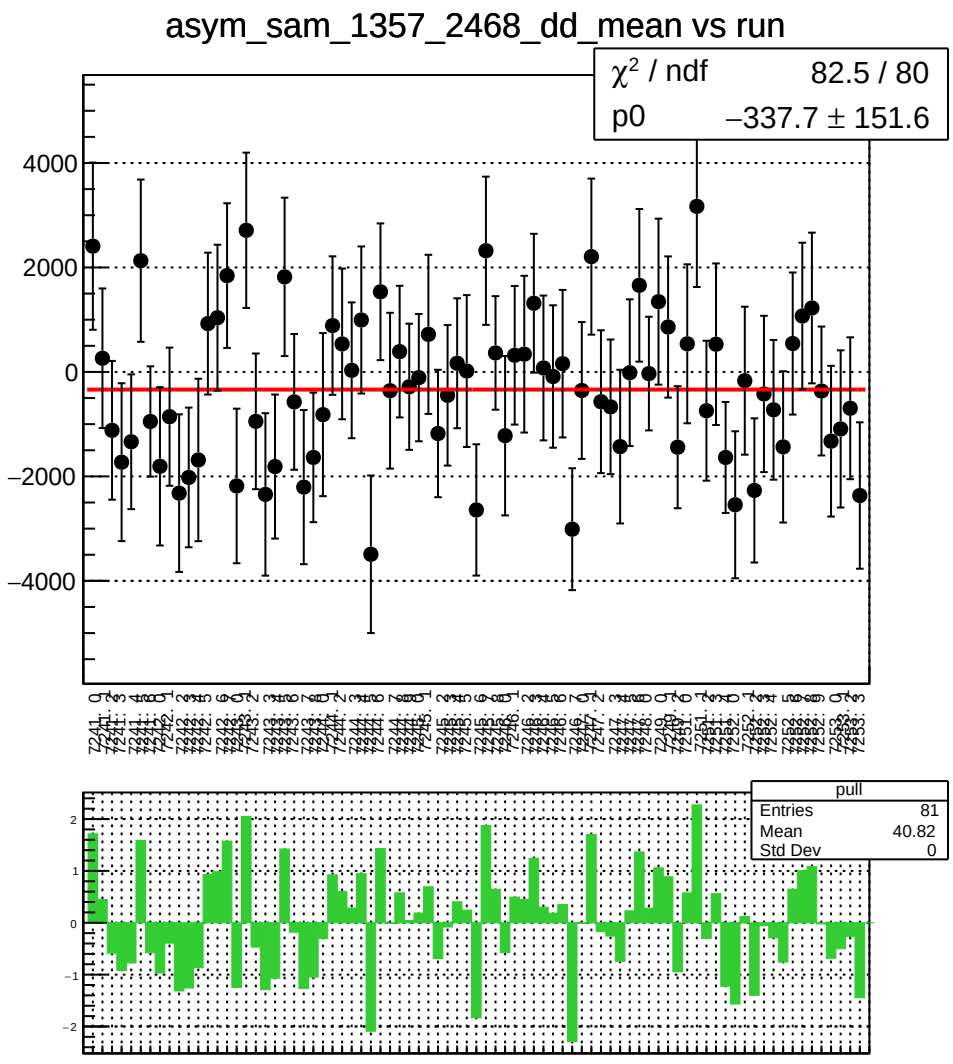

pull1D
Entries 81
Mean 0.002902
Std Dev 1.074

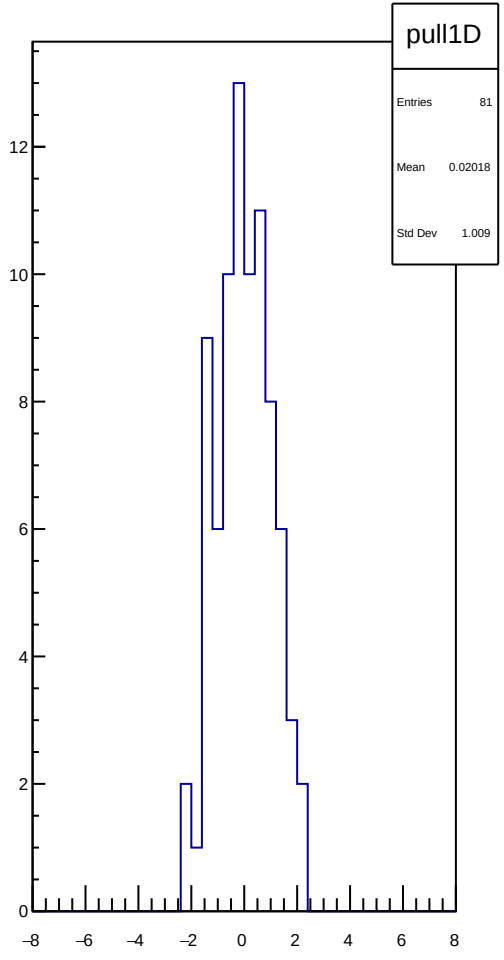

eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1454 / 80
p0 21.42 ± 0.01722
25
24
23
22
21
20

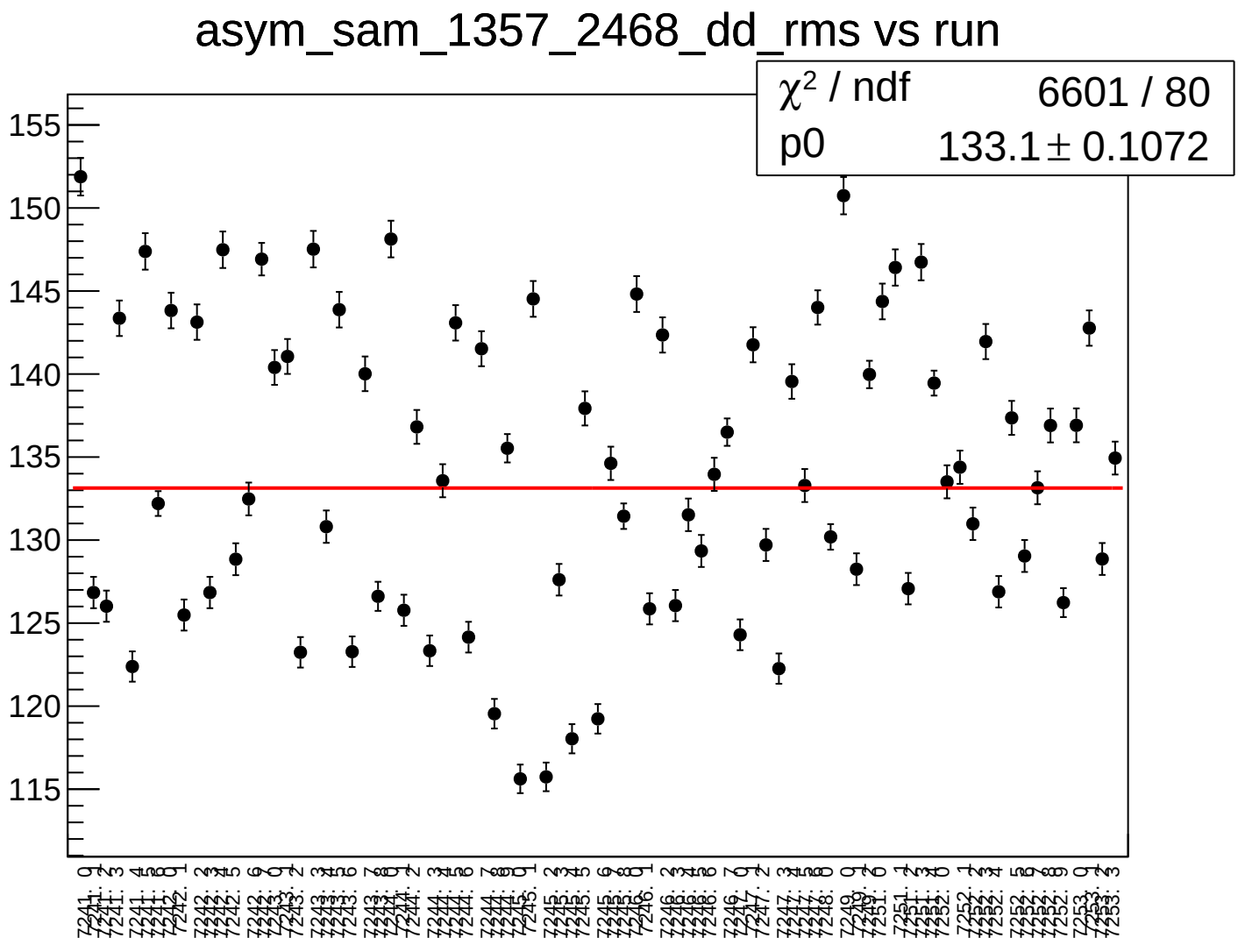

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 84.16 / 80
p0 316 ± 150.1
4000
2000
0
−2000
−4000
pull
Entries 81
Mean 69.08
Std Dev 0
2
1
0
−1
−2

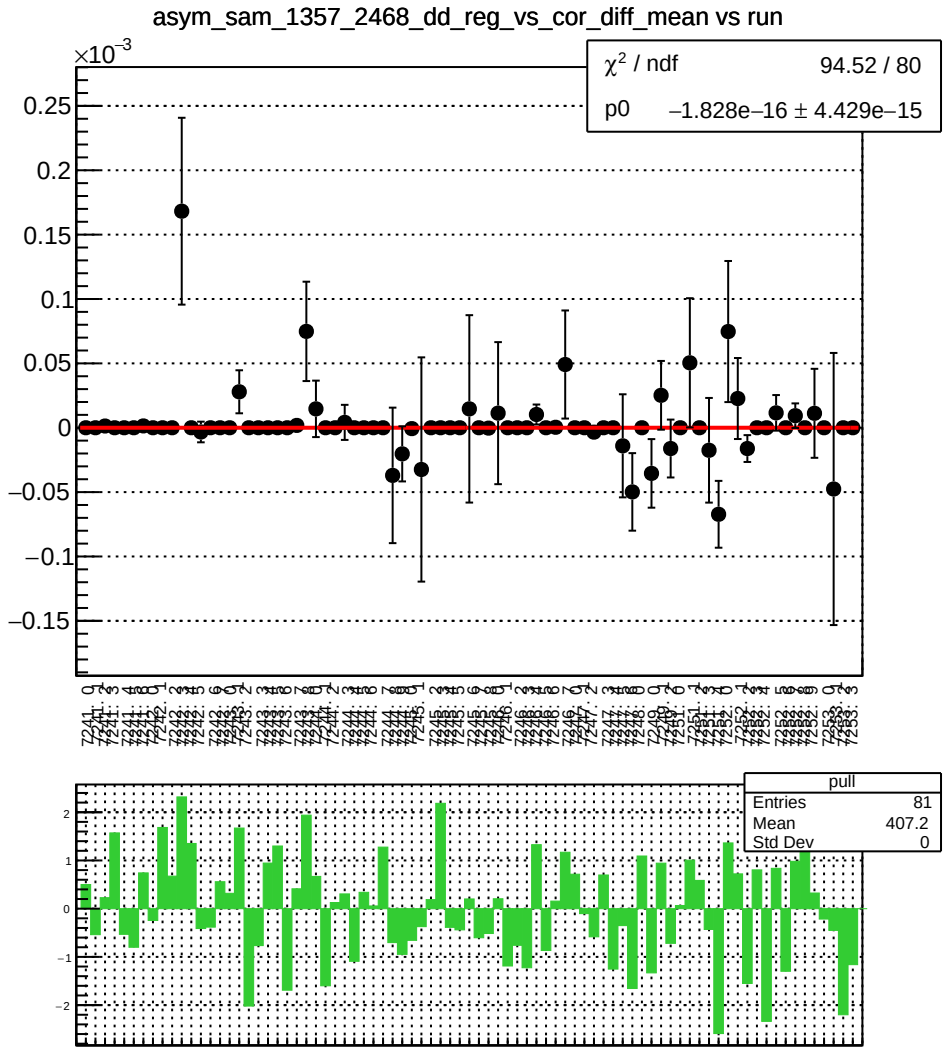

pull1D
Entries 81
Mean −0.02056
Std Dev 1.019
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

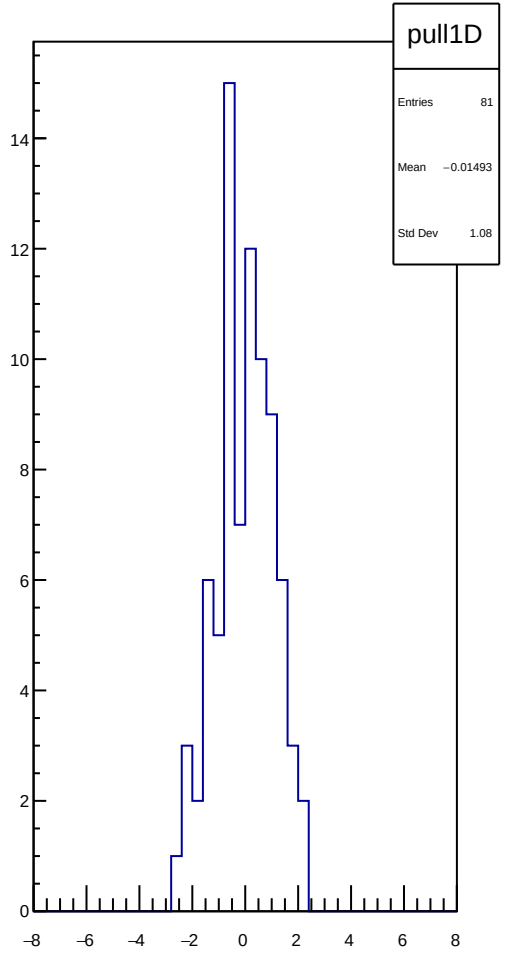

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 4943 / 80
p0 131.9 ± 0.1061
150
145
140
135
130
125
120
115

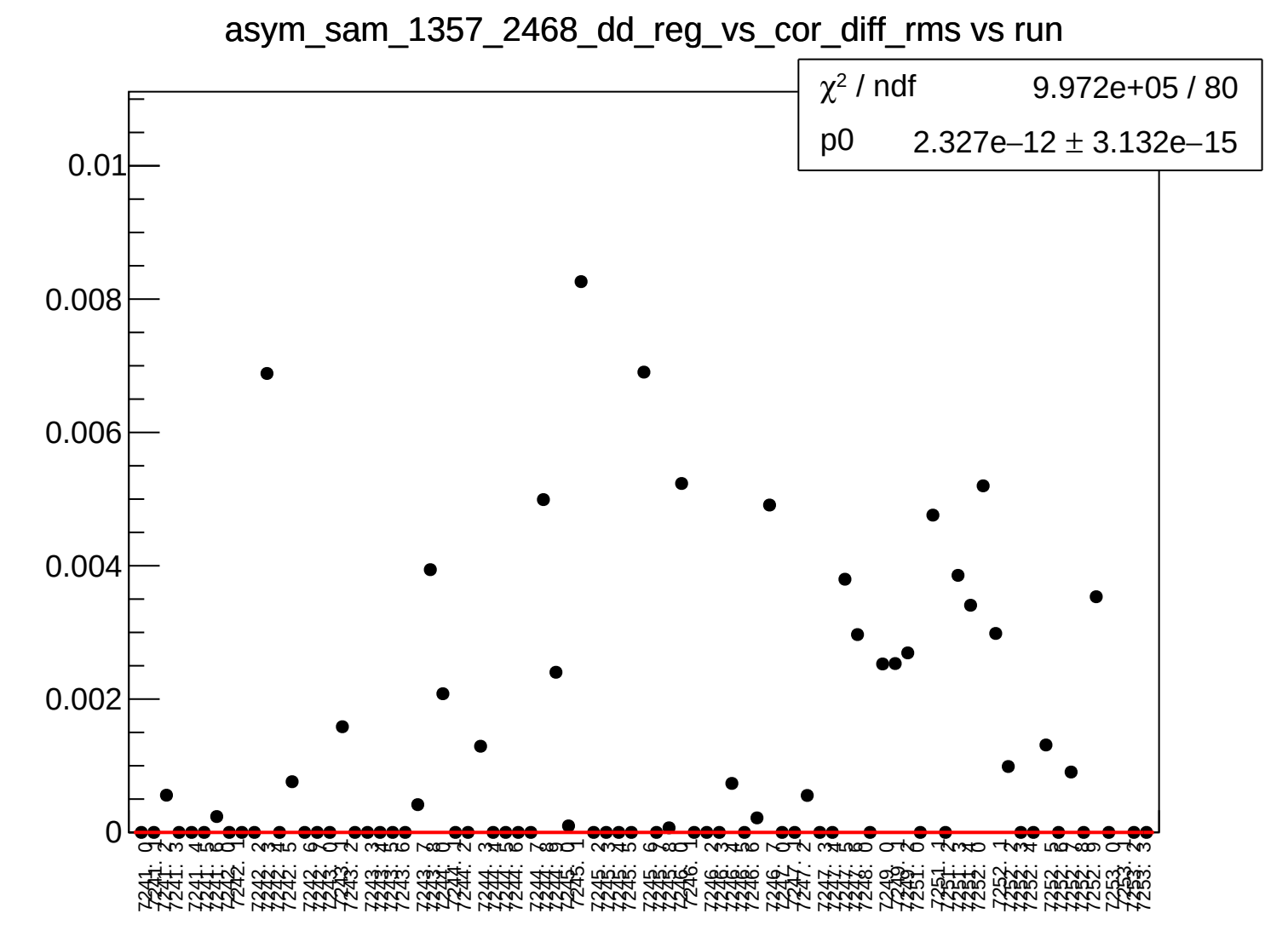

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 82.5 / 80
p0 −337.7 ± 151.6
4000
2000
0
−2000
−4000
pull
Entries 81
Mean 40.82
Std Dev 0
2
1
0
−1
−2

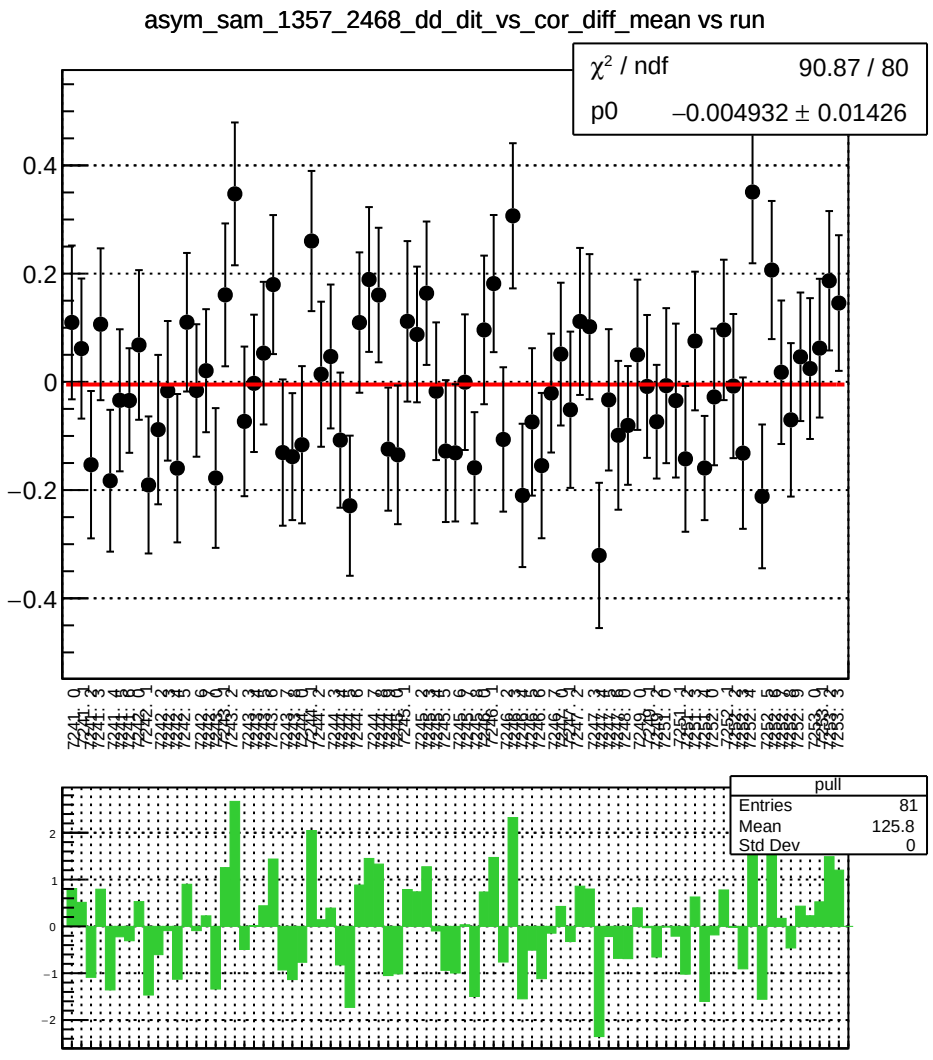

pull1D
Entries 81
Mean 0.02018
Std Dev 1.009
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

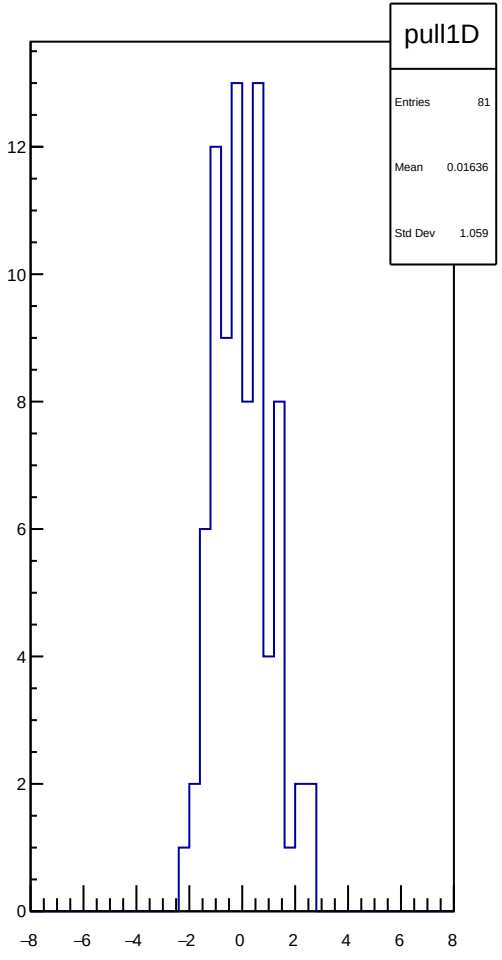

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 6601 / 80
p0 133.1 ± 0.1072
155
150
145
140
135
130
125
120
115

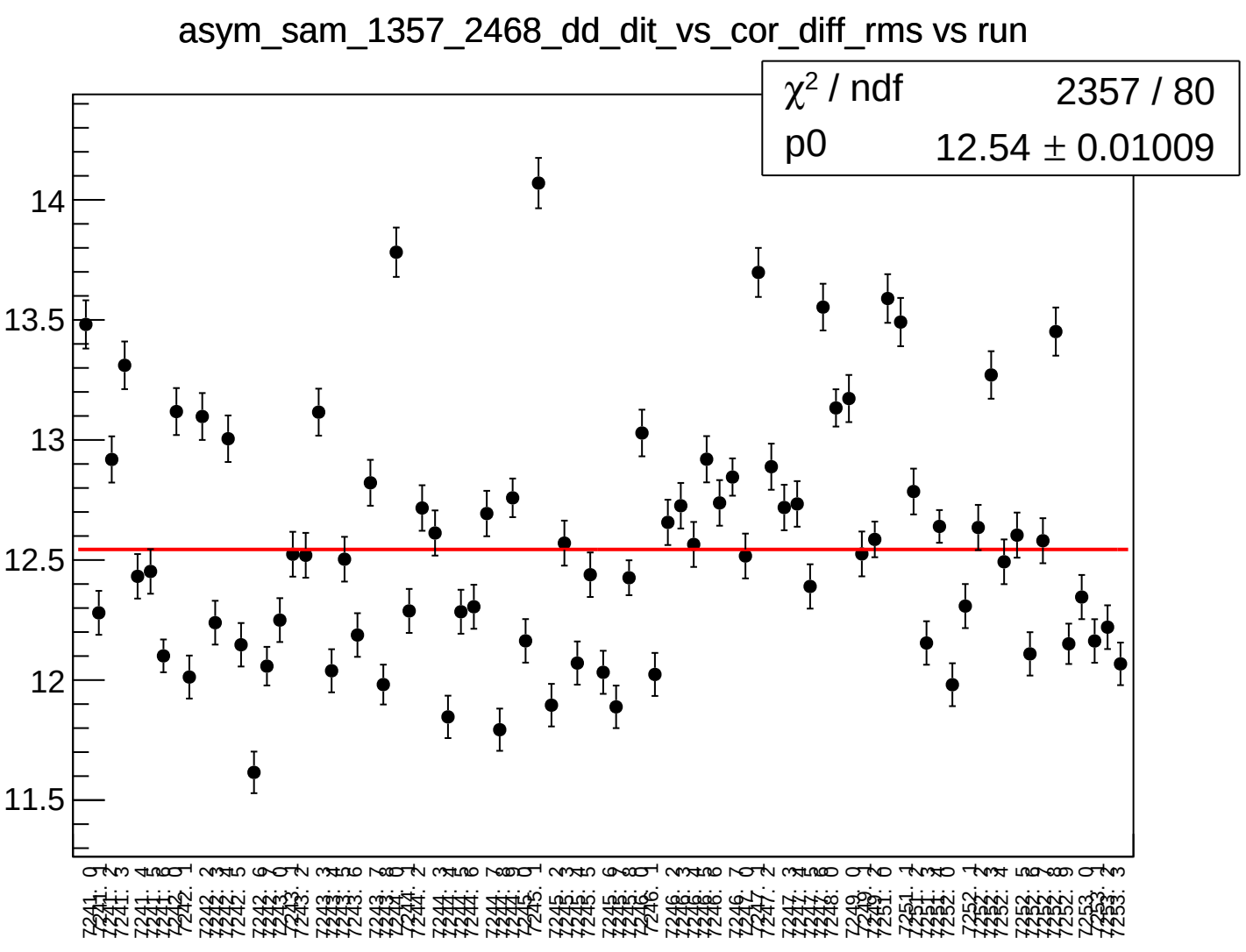

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 94.52 / 80
p0 −1.828e−16 ± 4.429e−15
pull
Entries 81
Mean 407.2
Std Dev 0

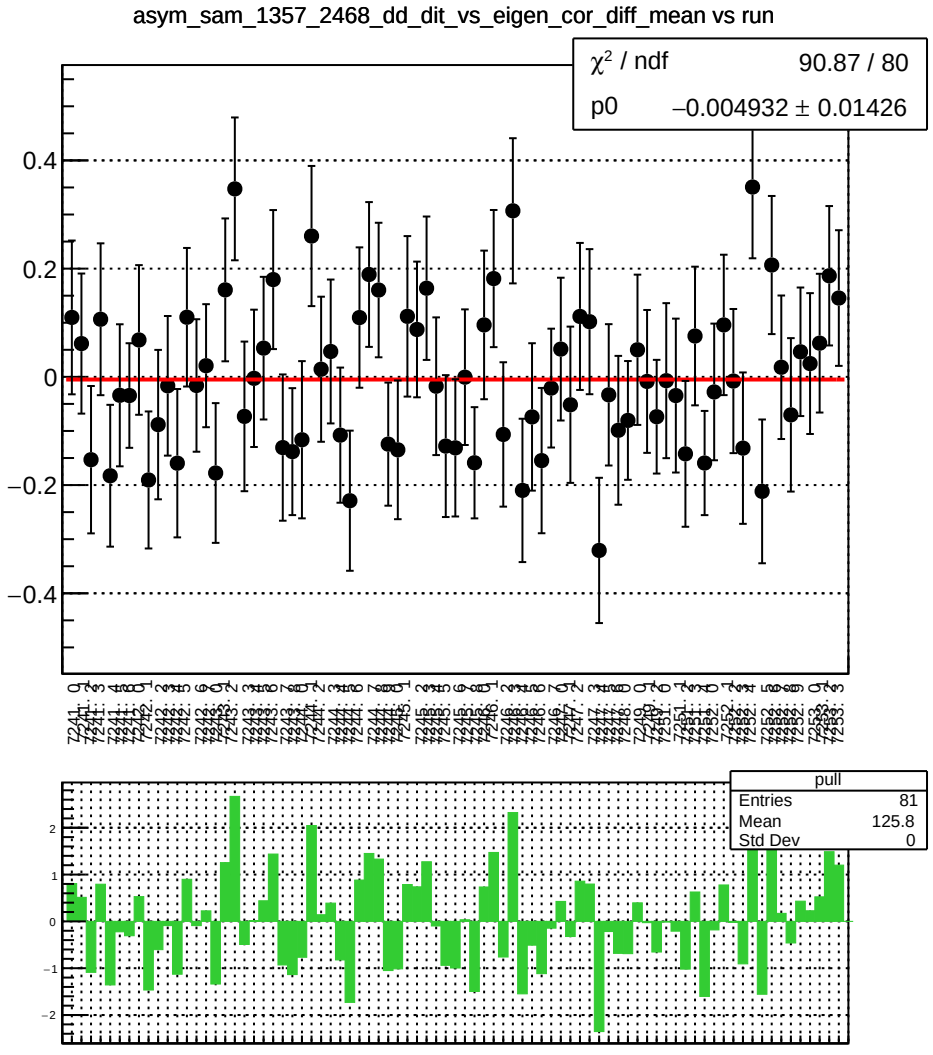

pull1D
Entries 81
Mean −0.01493
Std Dev 1.08

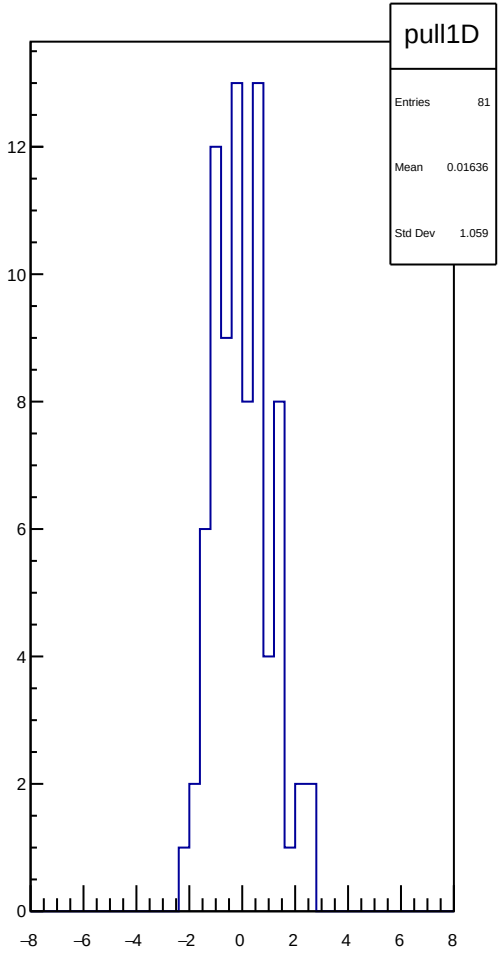

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.972e+05 / 80
p0 2.327e−12 ± 3.132e−15
0.01
0.008
0.006
0.004
0.002
0

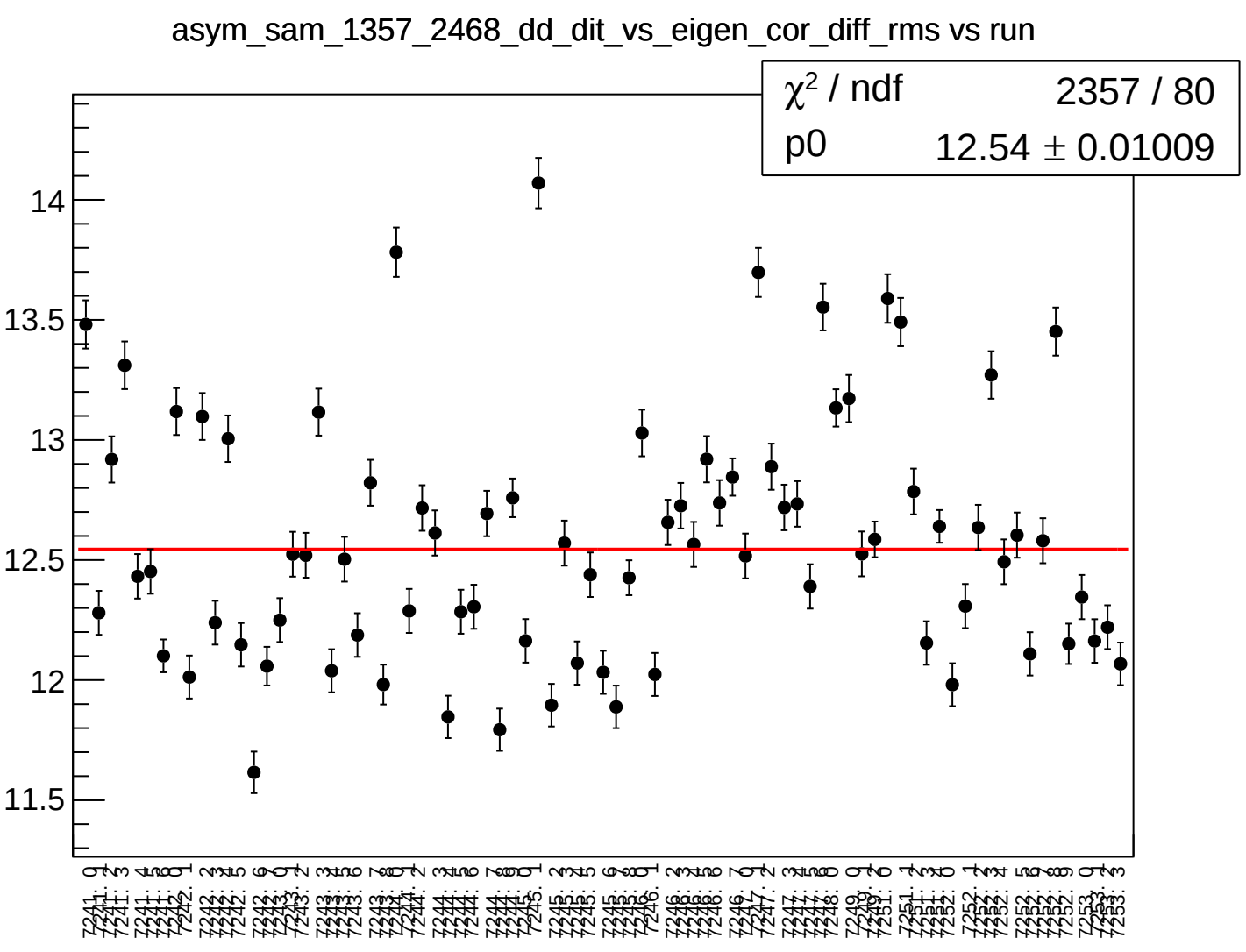

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 90.87 / 80
p0 −0.004932 ± 0.01426
pull
Entries 81
Mean 125.8
Std Dev 0

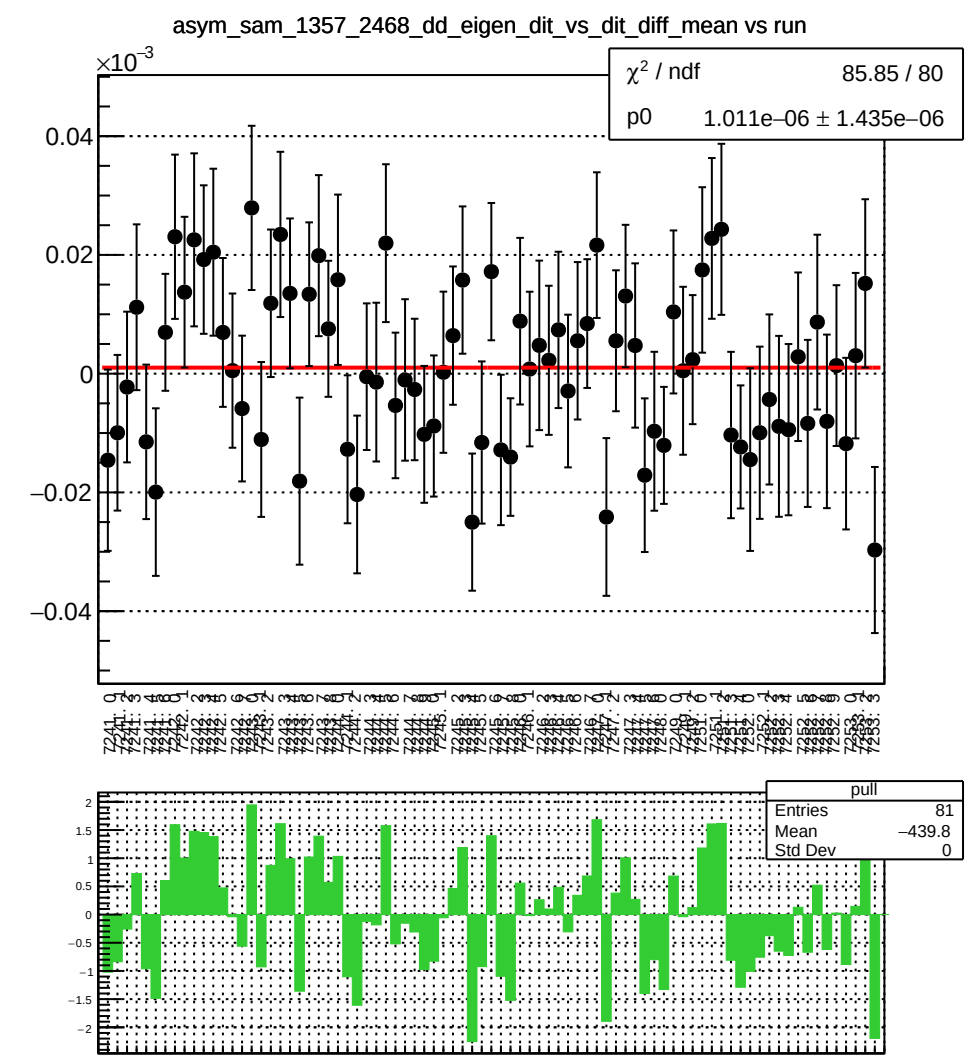

pull1D
Entries 81
Mean 0.01636
Std Dev 1.059

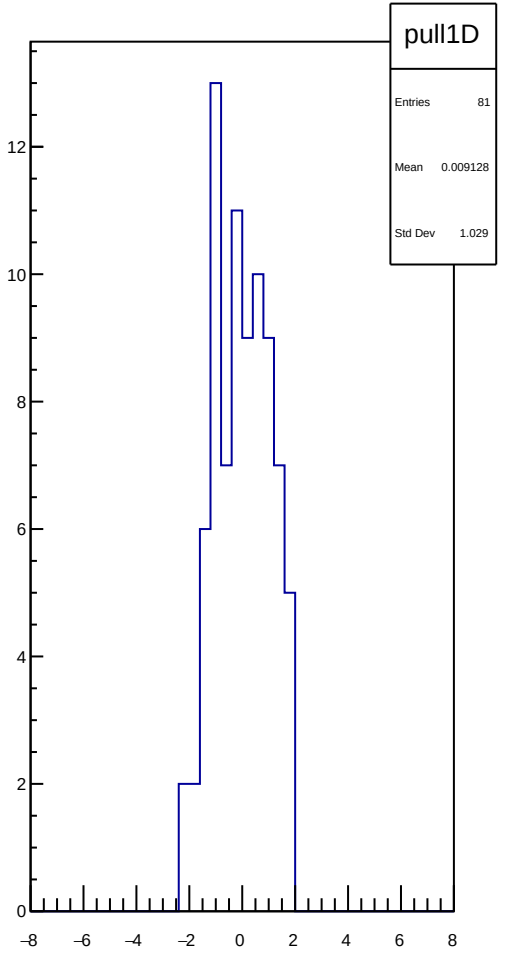

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2357 / 80
p0 12.54 ± 0.01009
14
13.5
13
12.5
12
11.5

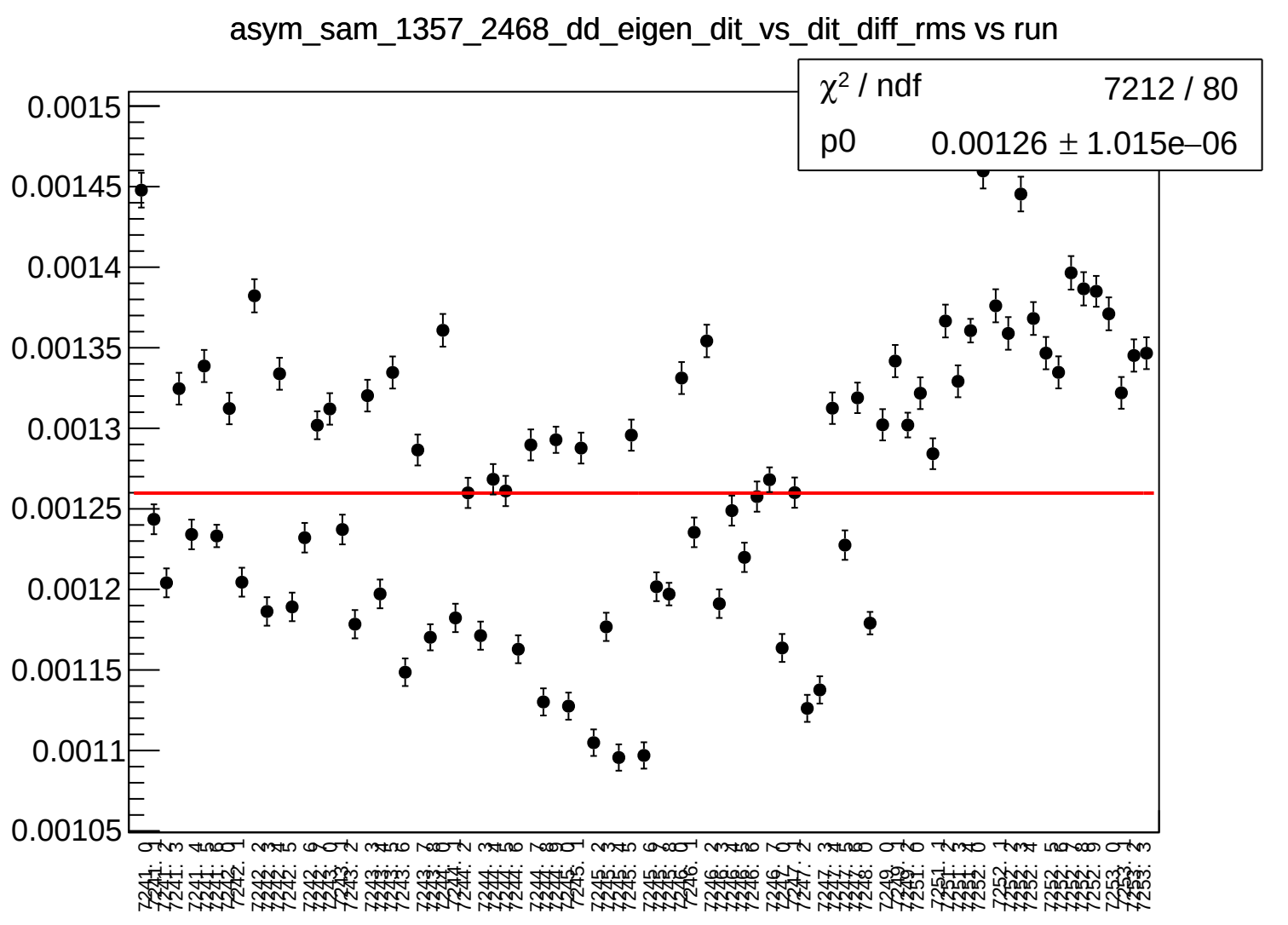

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.87 / 80
p0 −0.004932 ± 0.01426
0.4
0.2
0
−0.2
−0.4
pull
Entries 81
Mean 125.8
Std Dev 0
2
1
0
−1
−2

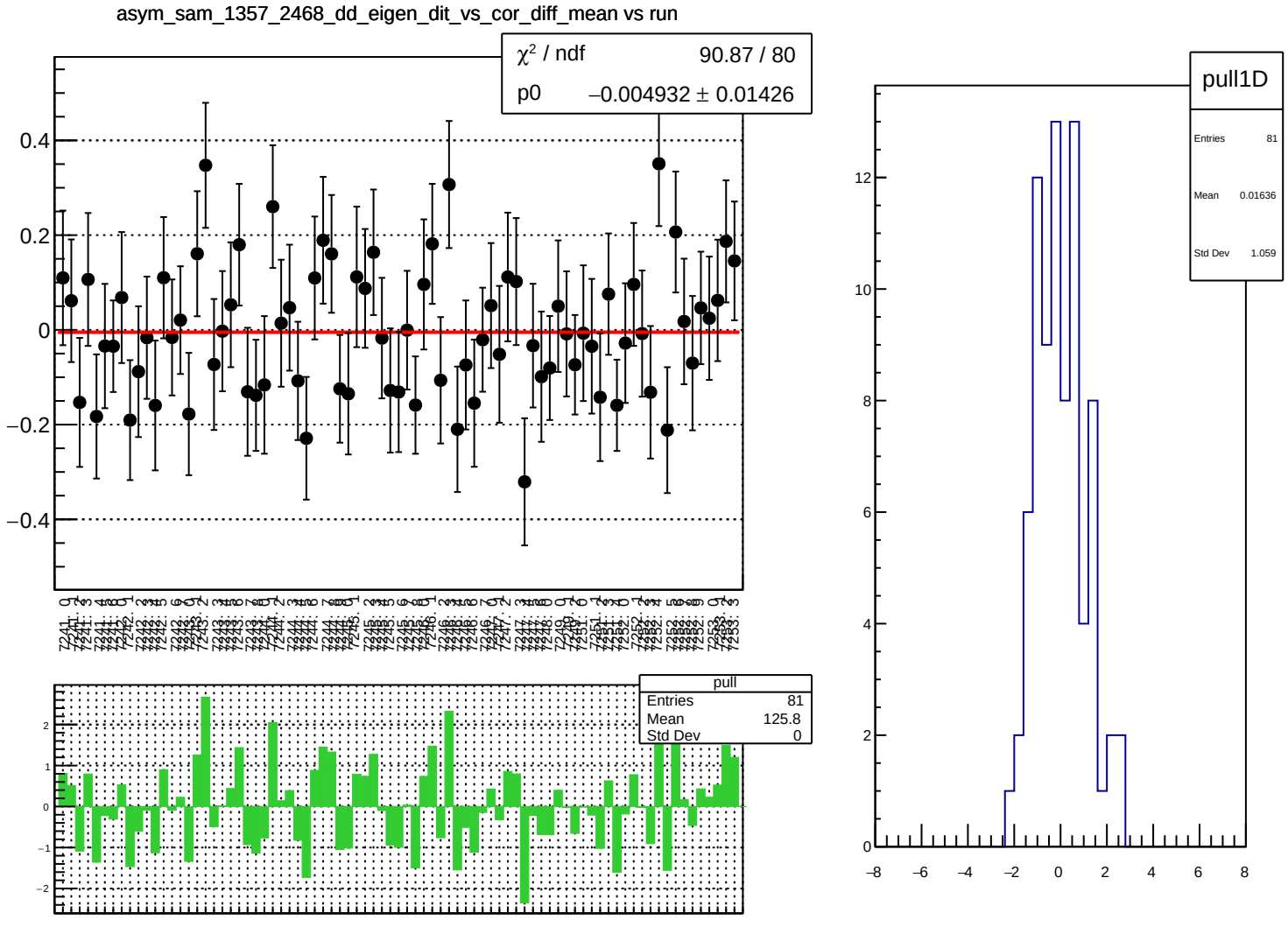

pull1D
Entries 81
Mean 0.01636
Std Dev 1.059
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

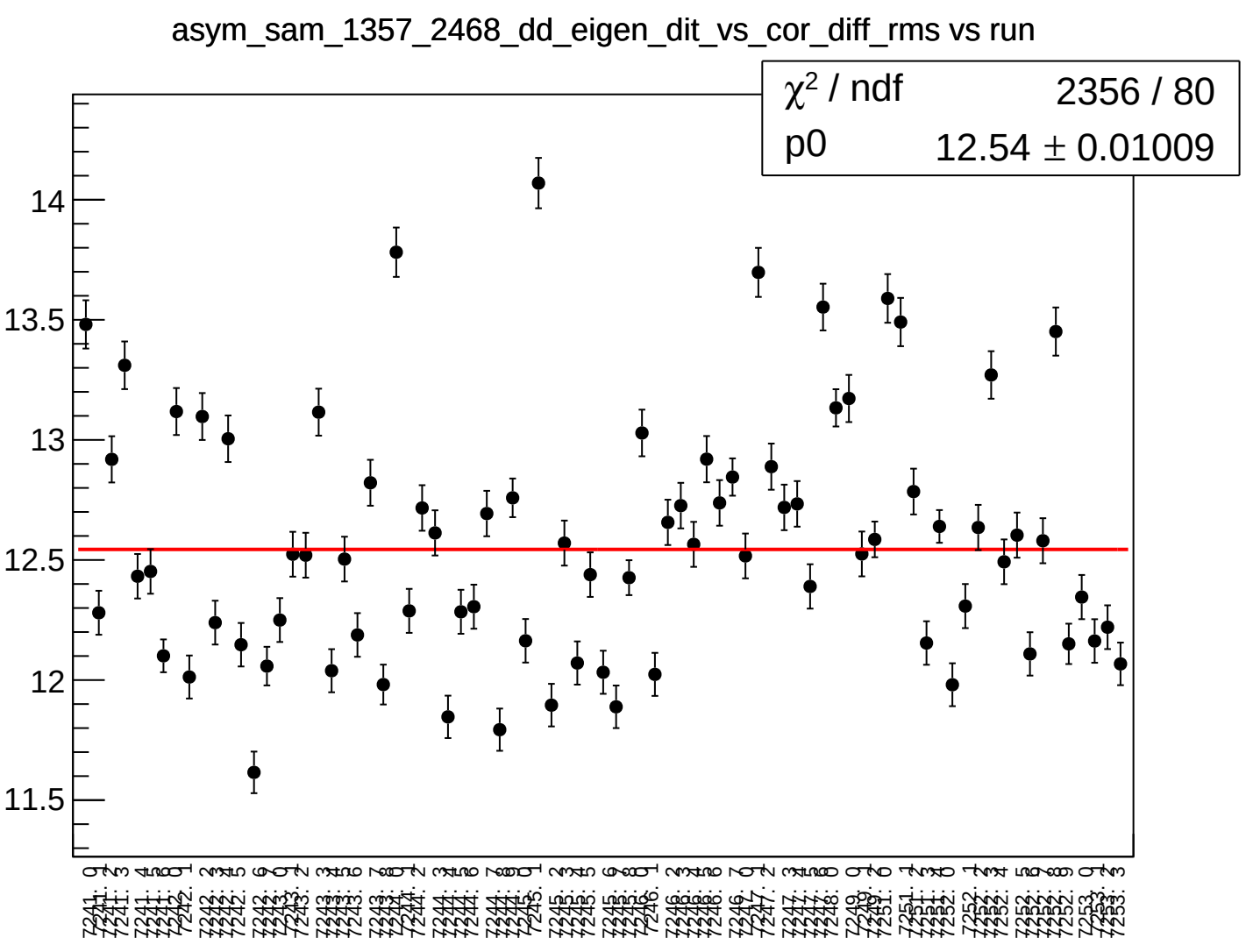

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2357 / 80
p0 12.54 ± 0.01009
14
13.5
13
12.5
12
11.5

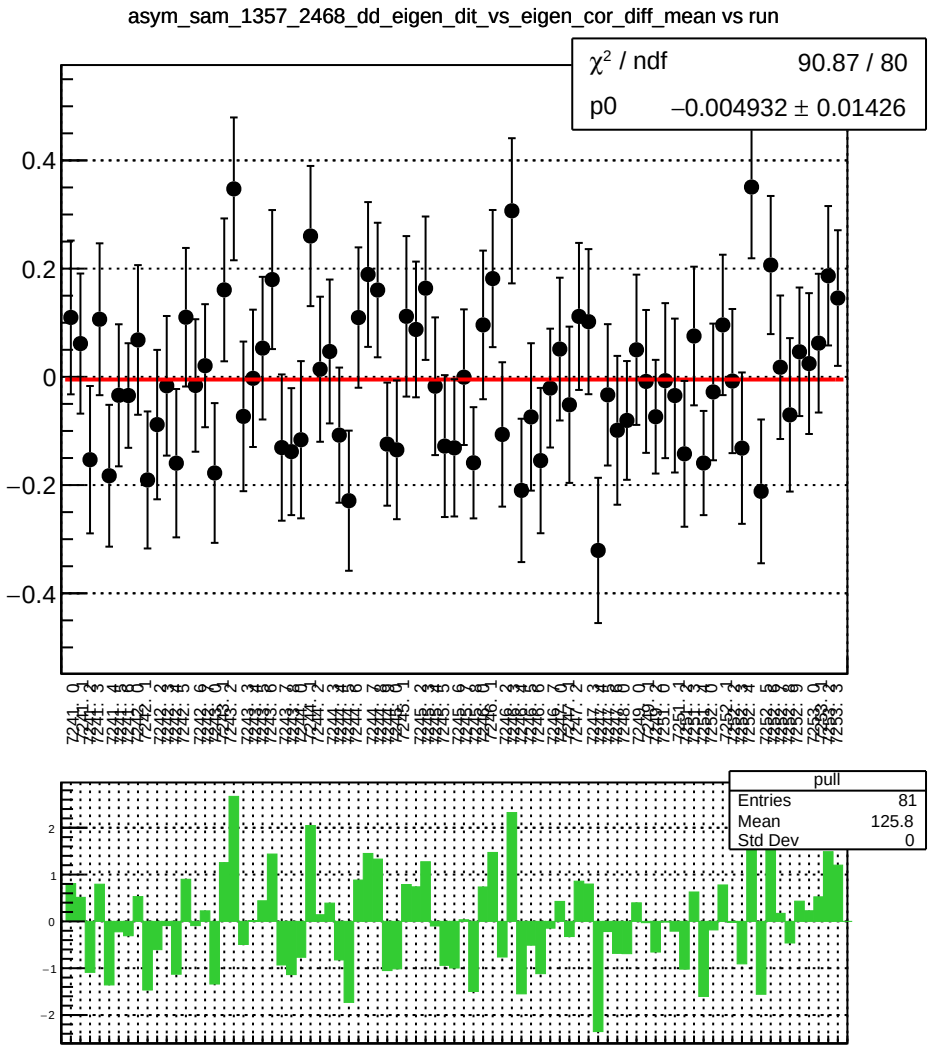

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.85 / 80
p0 1.011e−06 ± 1.435e−06
0.04
0.02
0
−0.02
−0.04
pull
Entries 81
Mean −439.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

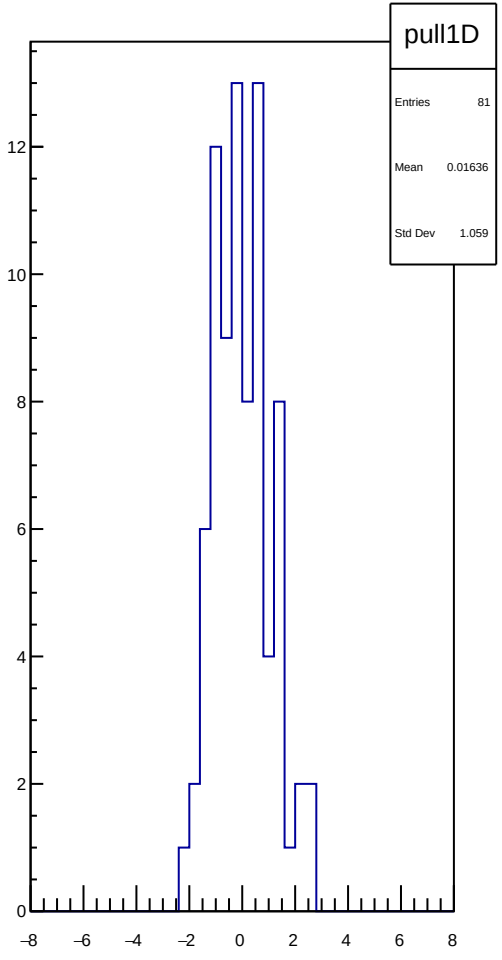

pull1D
Entries 81
Mean 0.009128
Std Dev 1.029
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

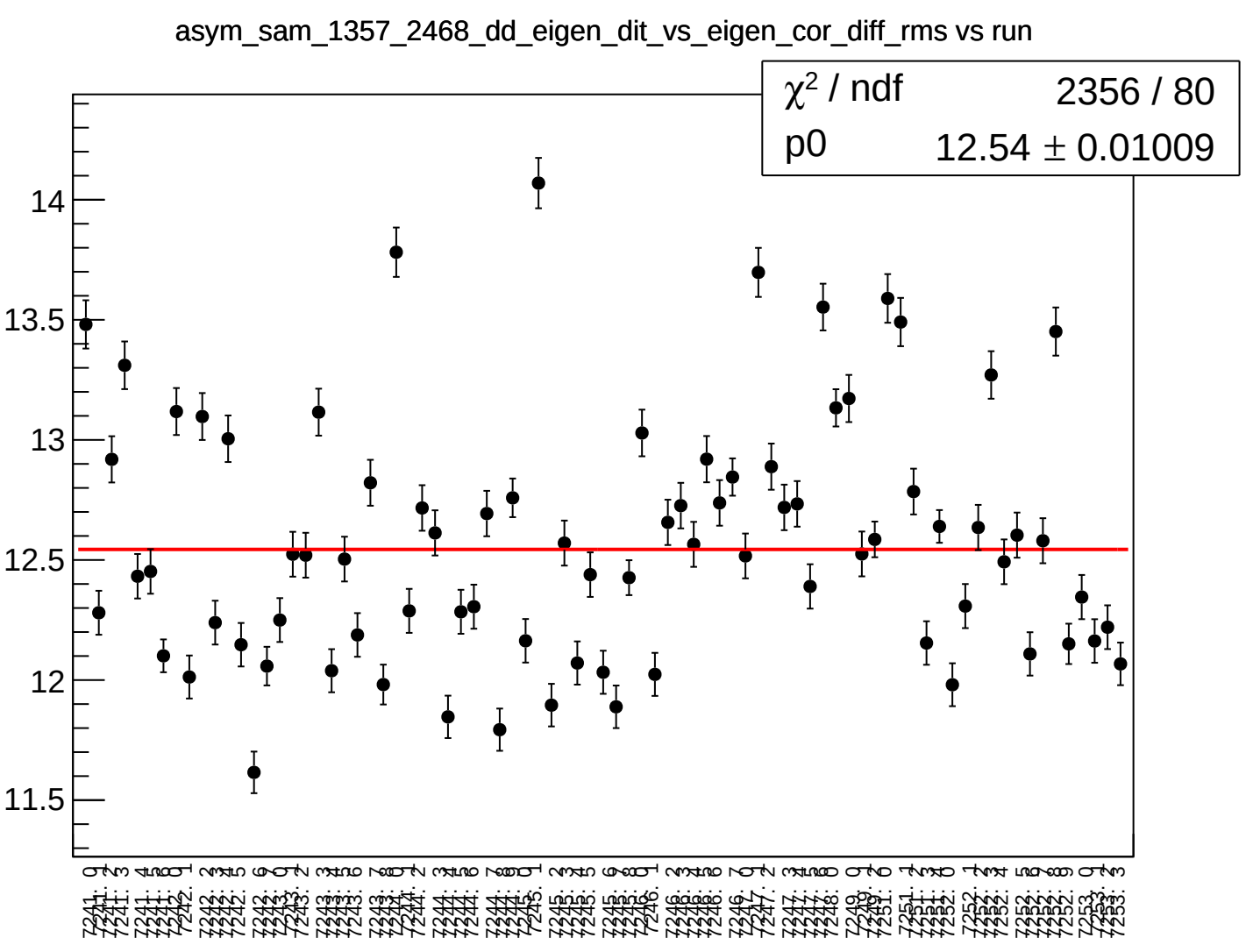

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7212 / 80
p0 0.00126 ± 1.015e−06
0.0015
0.00145
0.0014
0.00135
0.0013
0.00125
0.0012
0.00115
0.0011
0.00105

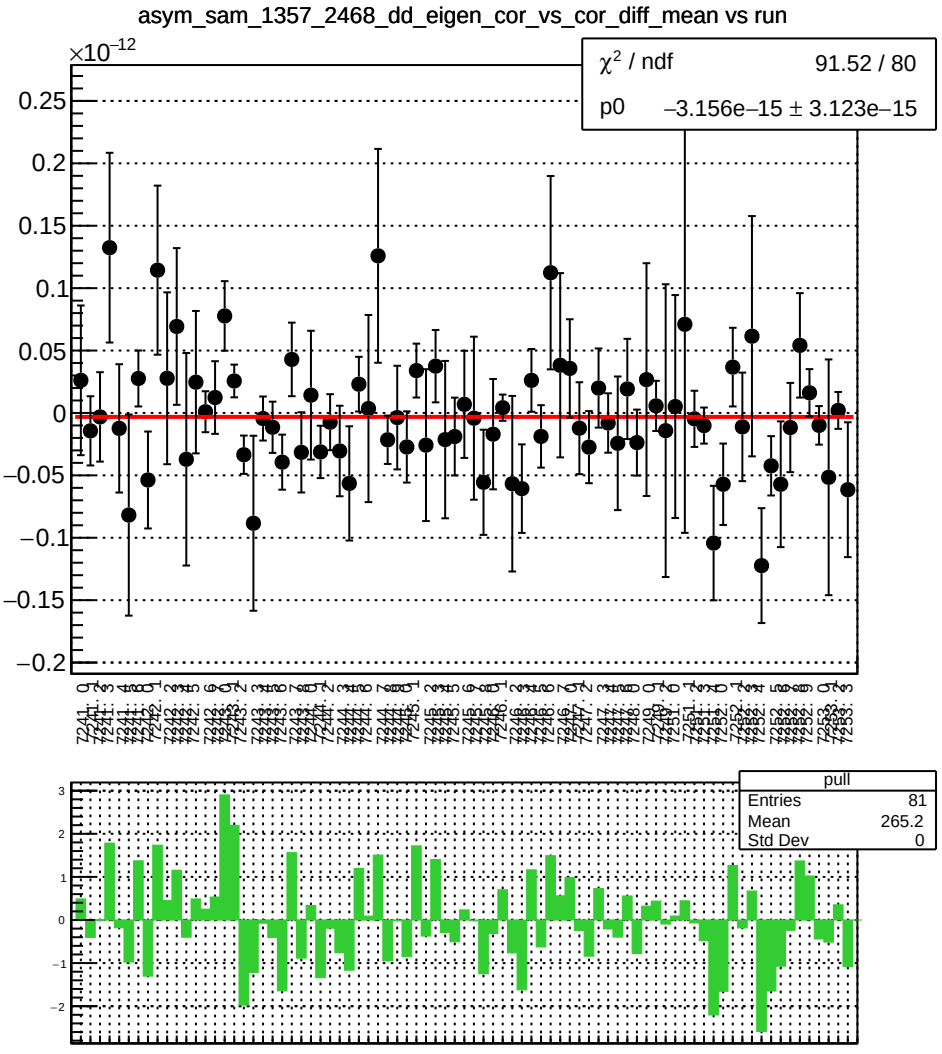

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.87 / 80
p0 −0.004932 ± 0.01426
0.4
0.2
0
−0.2
−0.4
pull
Entries 81
Mean 125.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 81
Mean 0.01636
Std Dev 1.059
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

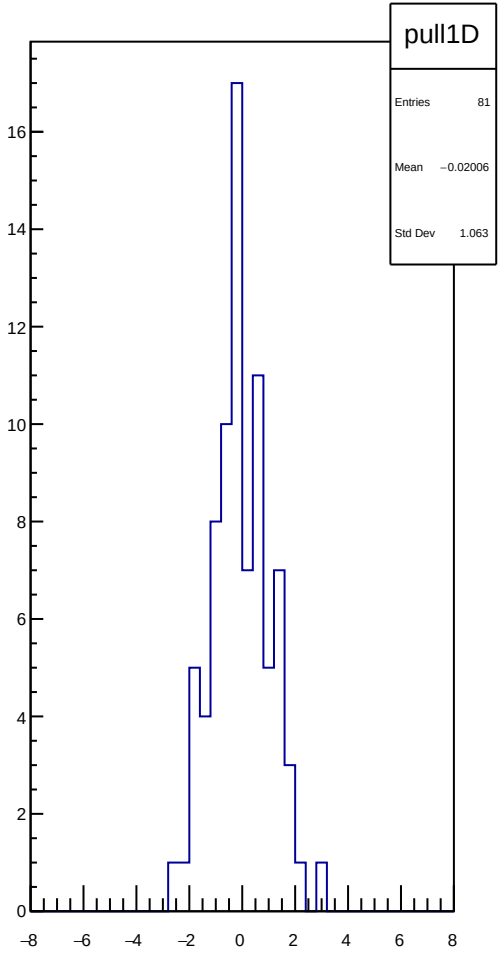

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2356 / 80
p0 12.54 ± 0.01009
14
13.5
13
12.5
12
11.5

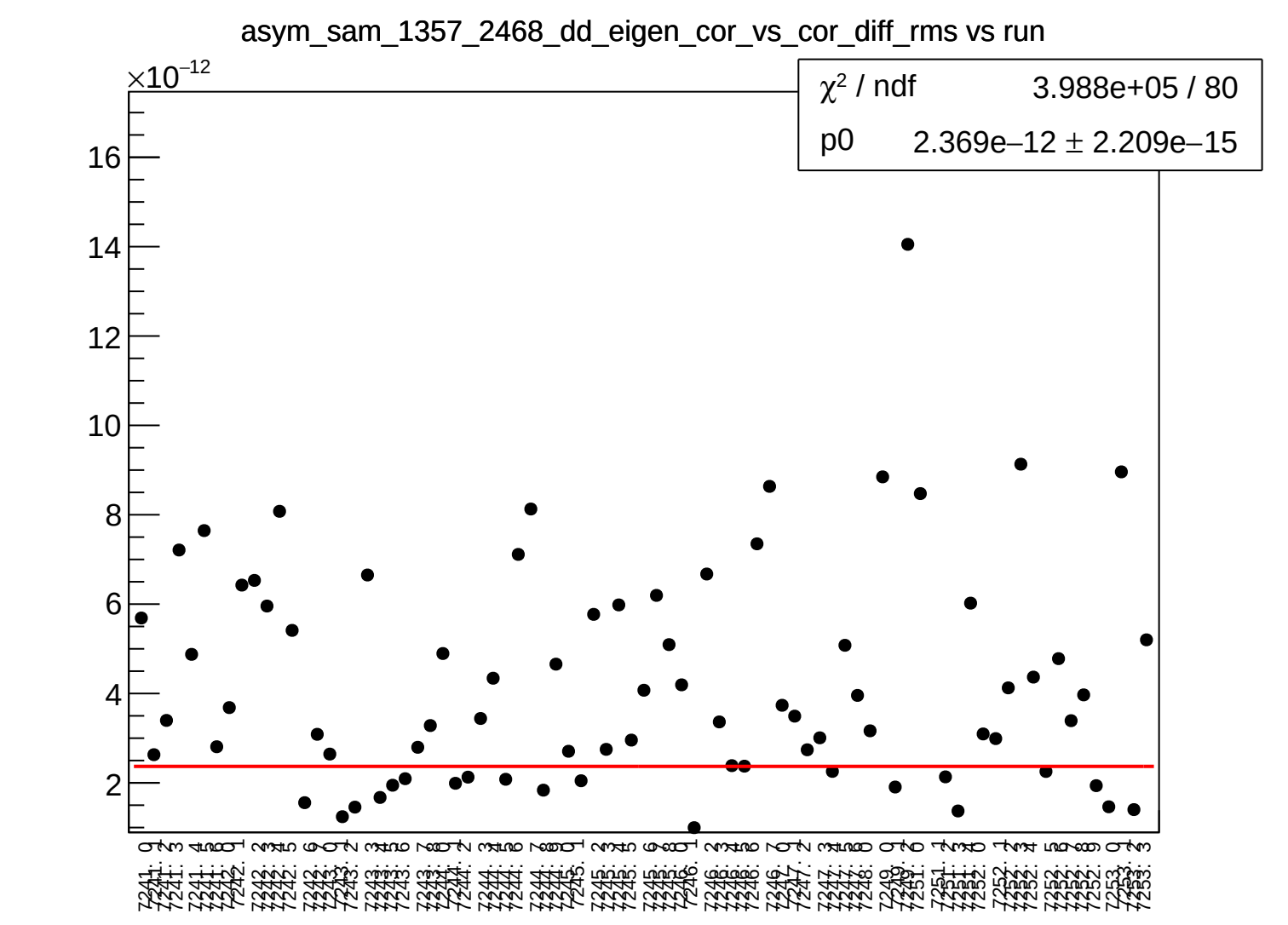

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.87 / 80
p0 −0.004932 ± 0.01426
0.4
0.2
0
−0.2
−0.4
pull
Entries 81
Mean 125.8
Std Dev 0
2
1
0
−1
−2

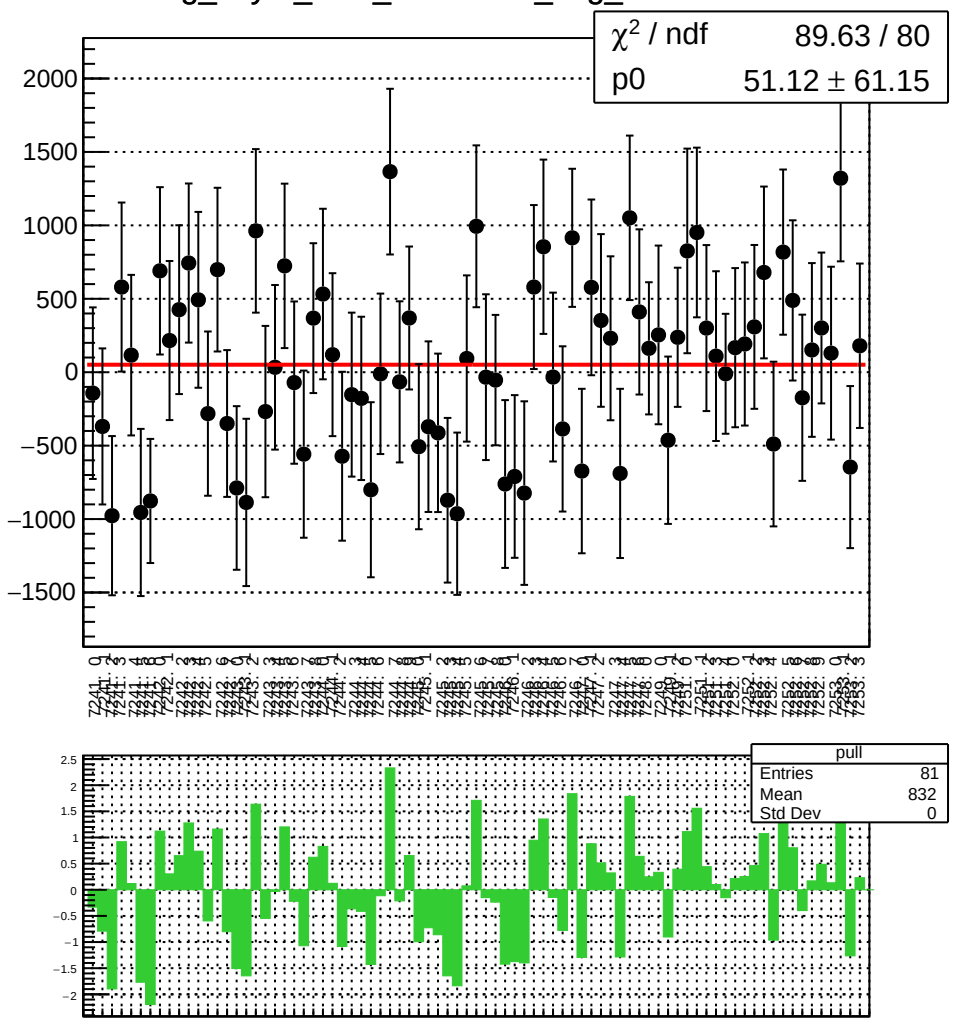

pull1D
Entries 81
Mean 0.01636
Std Dev 1.059
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

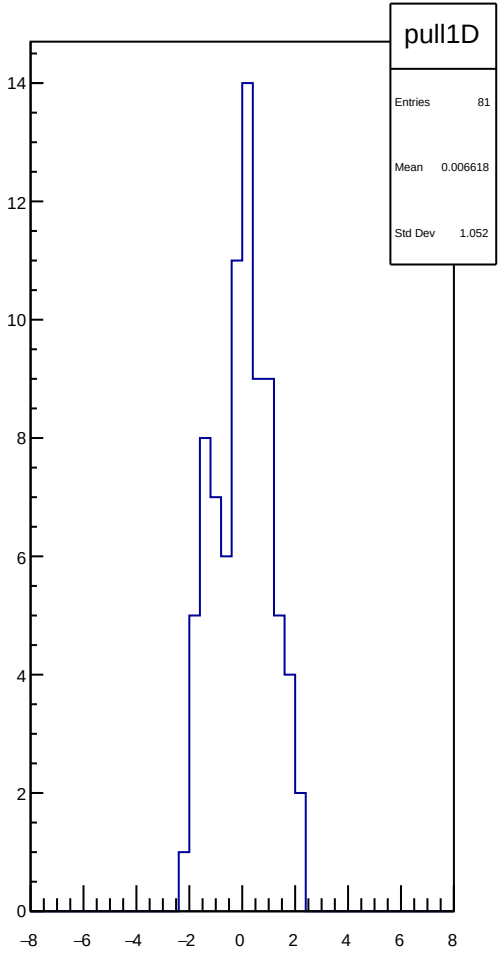

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2356 / 80
p0 12.54 ± 0.01009
14
13.5
13
12.5
12
11.5

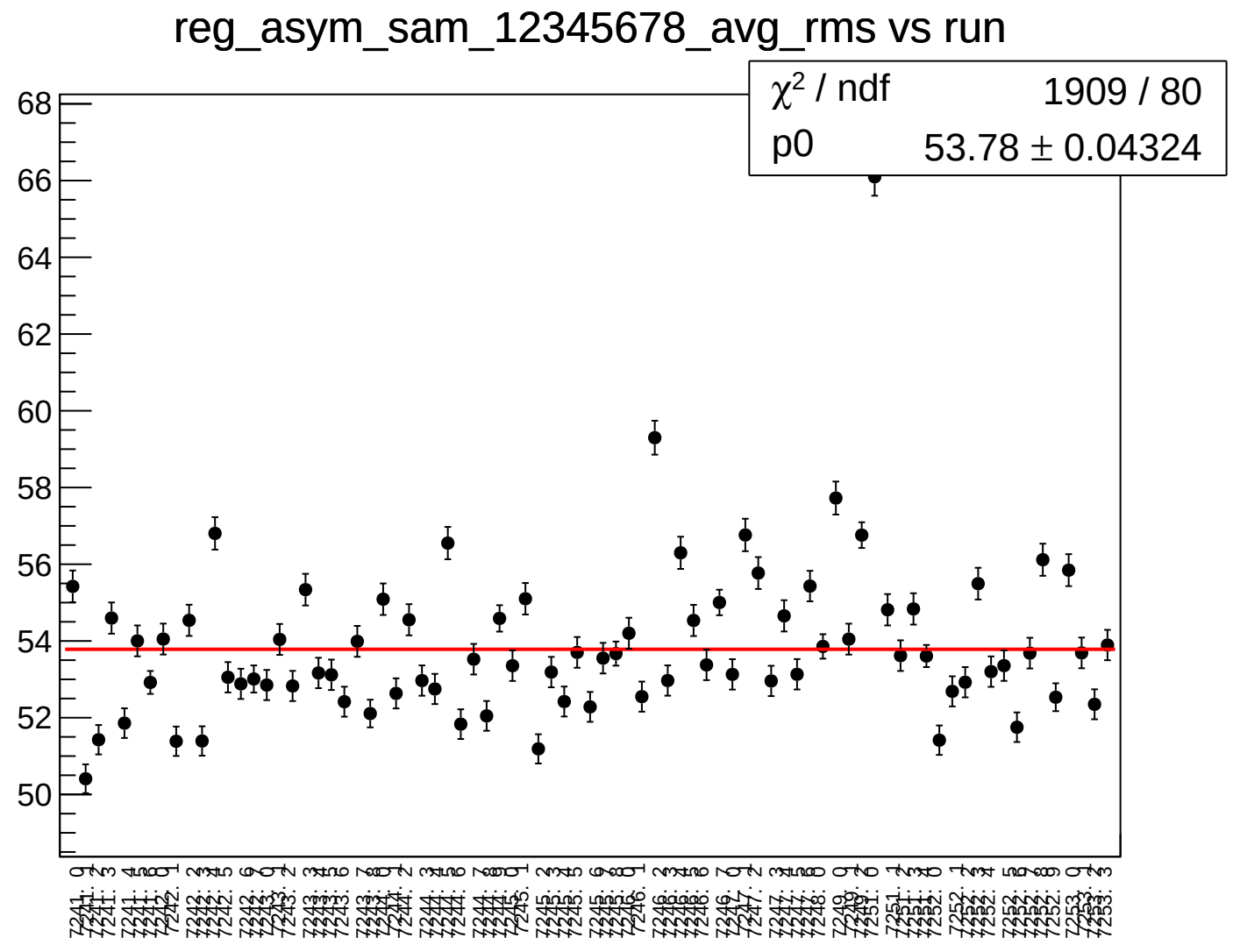

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.52 / 80
p0 −3.156e−15 ± 3.123e−15
pull
Entries 81
Mean 265.2
Std Dev 0

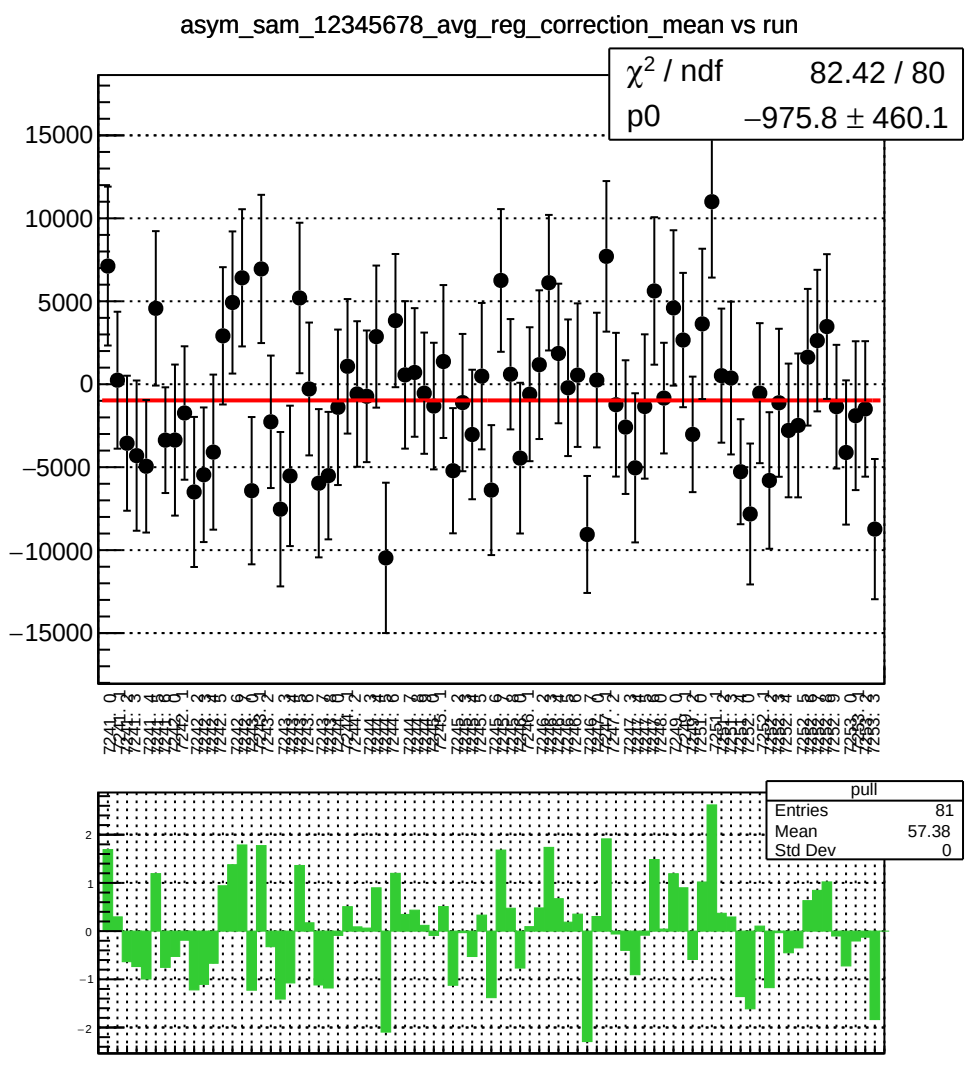

pull1D
Entries 81
Mean −0.02006
Std Dev 1.063

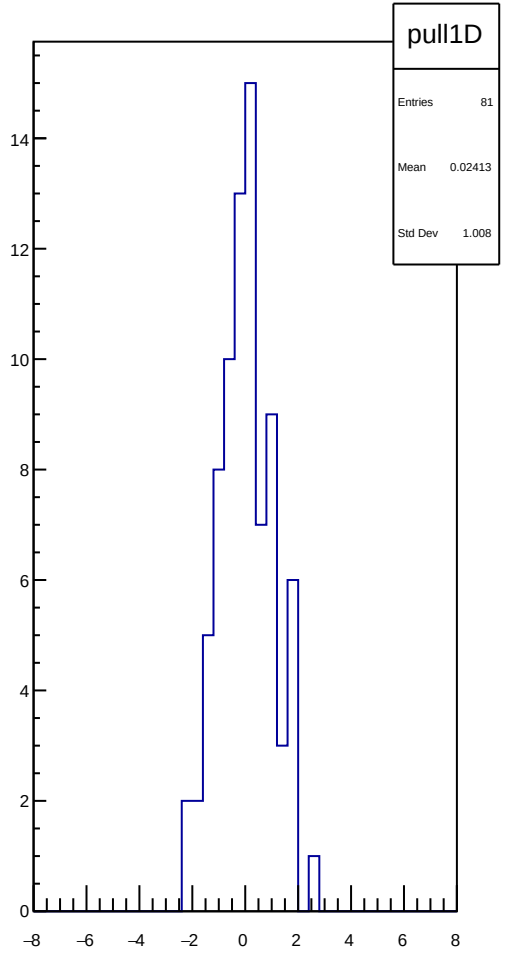

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.988e+05 / 80
p0 2.369e−12 ± 2.209e−15
16
14
12
10
8
6
4
2

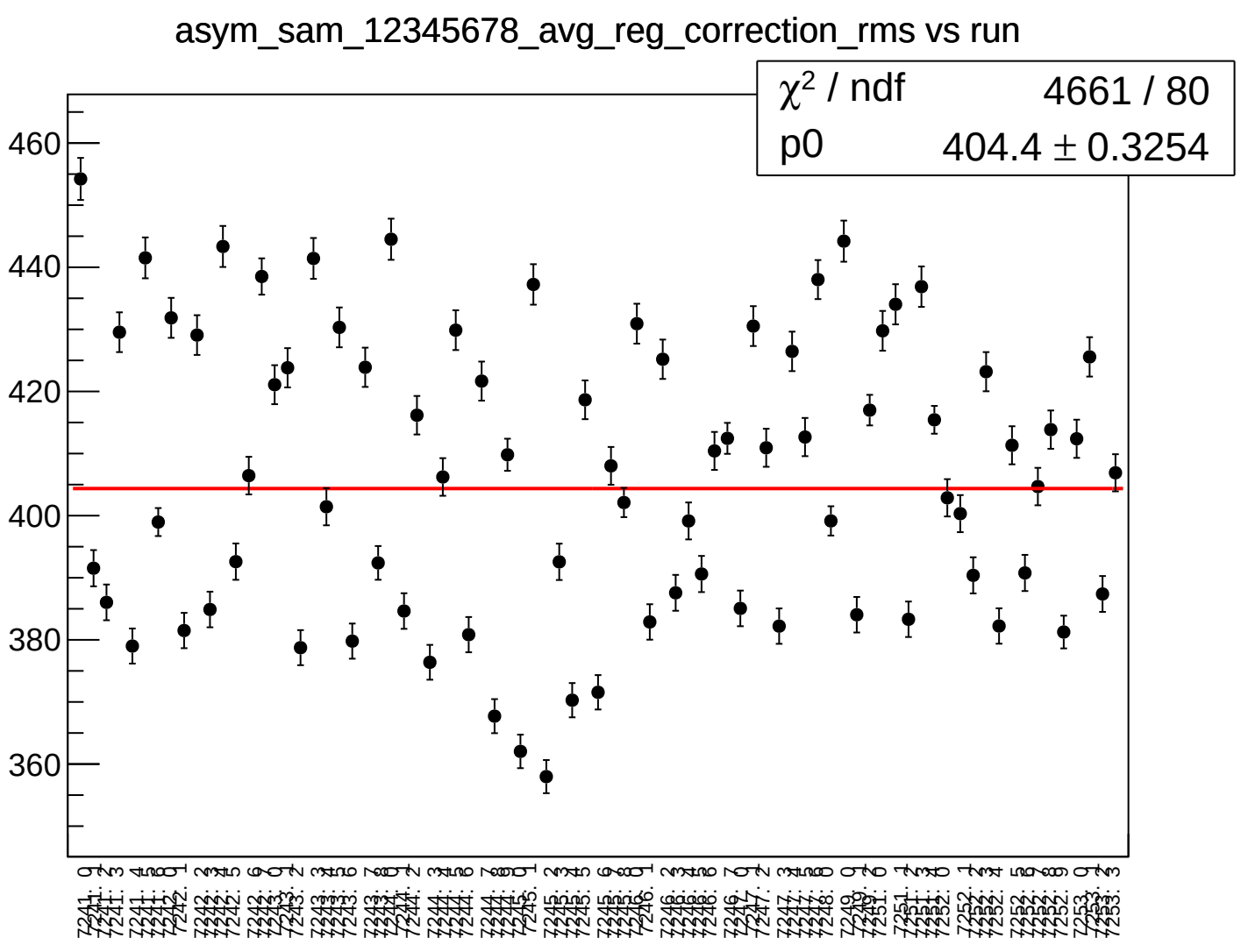

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 89.63 / 80
p0 51.12 ± 61.15
pull
Entries 81
Mean 832
Std Dev 0

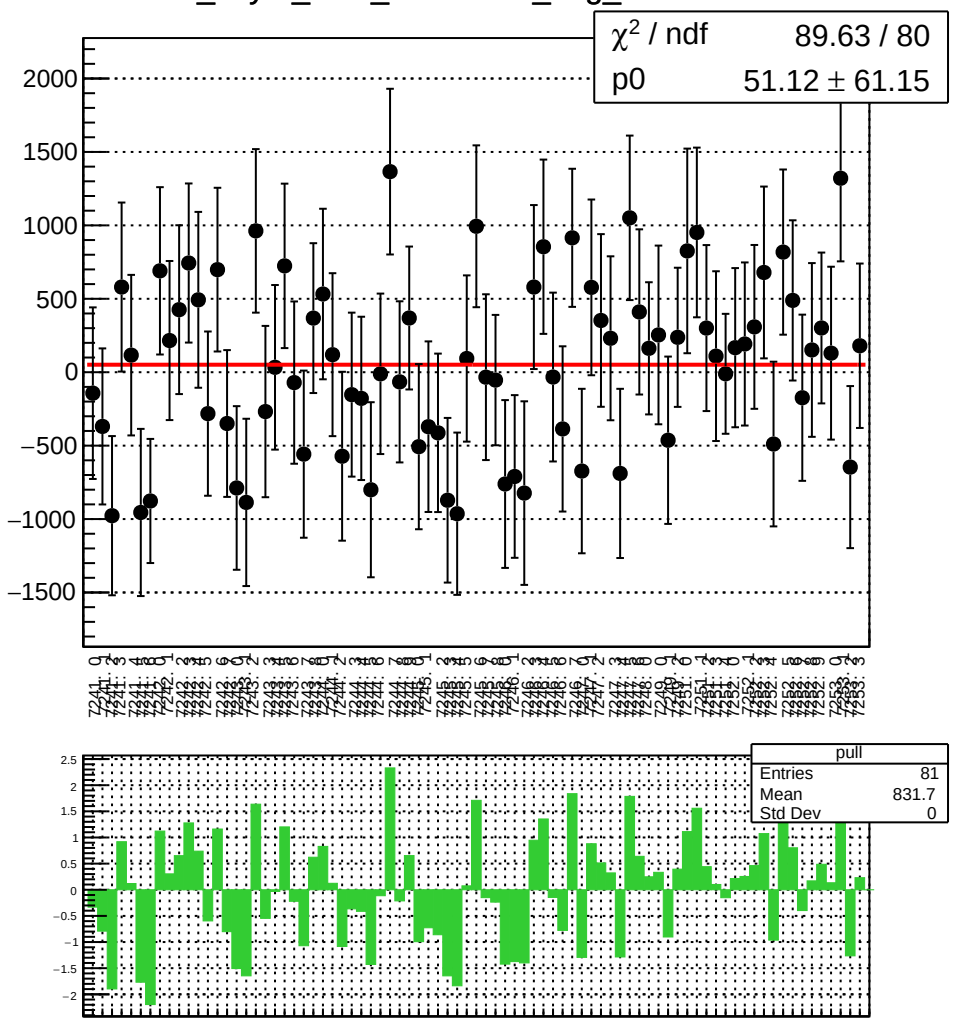

pull1D
Entries 81
Mean 0.006618
Std Dev 1.052

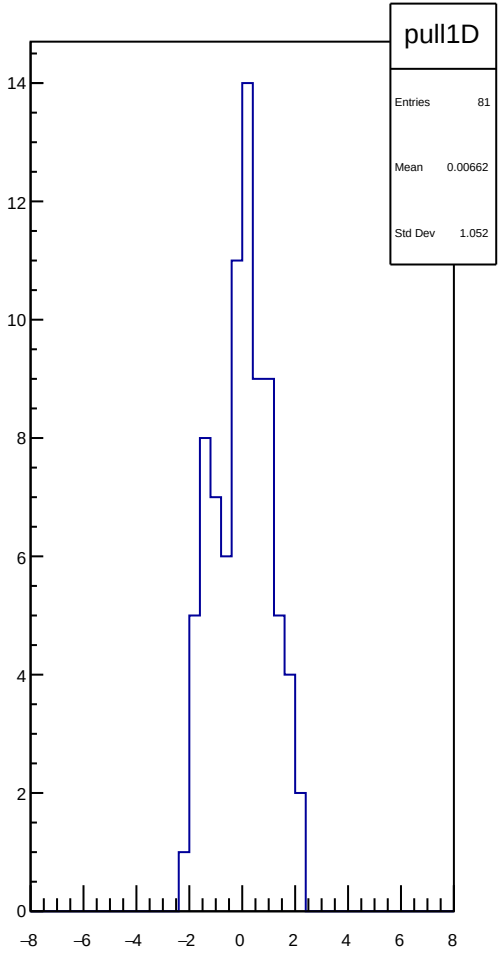

reg_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 1909 / 80
p0 53.78 ± 0.04324
68
66
64
62
60
58
56
54
52
50

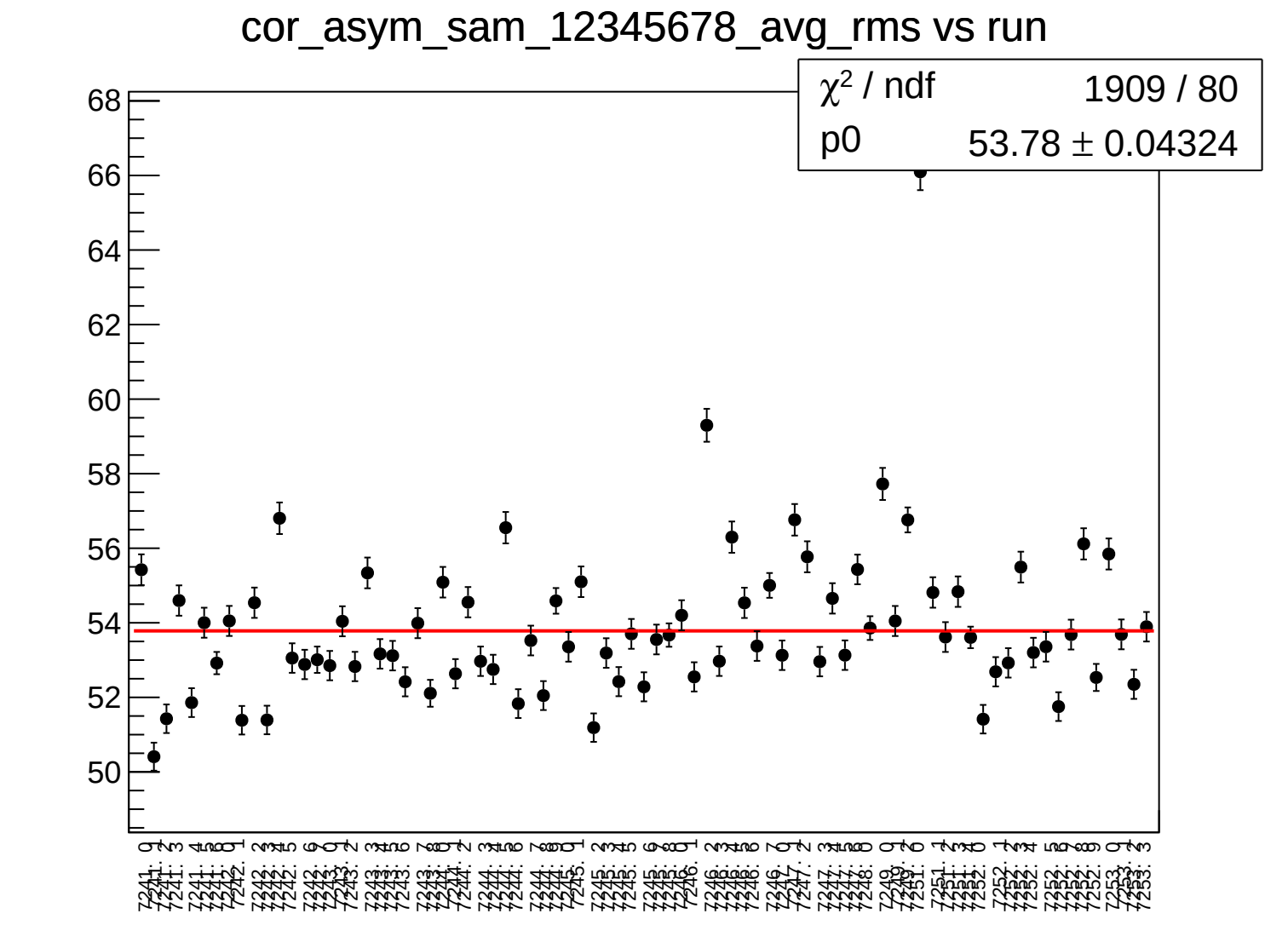

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 82.42 / 80
p0 −975.8 ± 460.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean 57.38
Std Dev 0
2
1
0
−1
−2

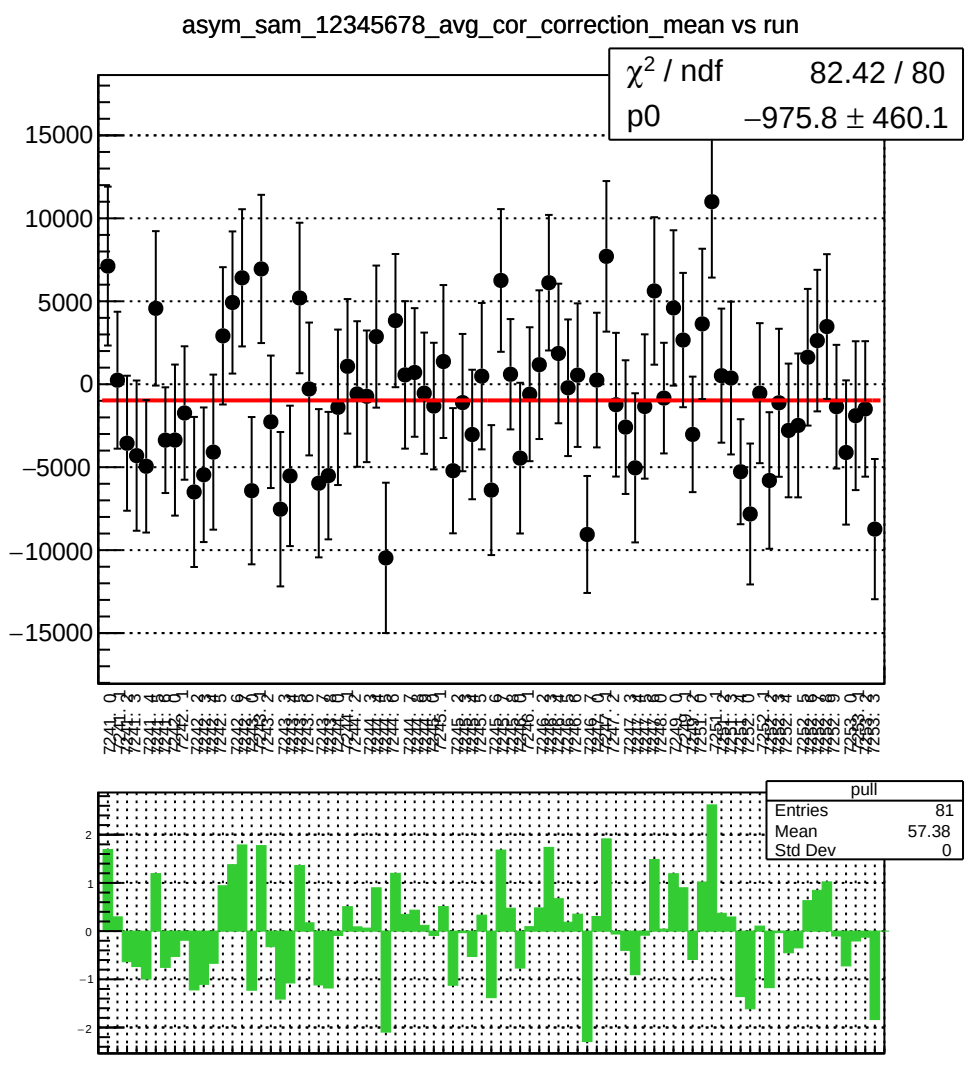

pull1D
Entries 81
Mean 0.02413
Std Dev 1.008
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

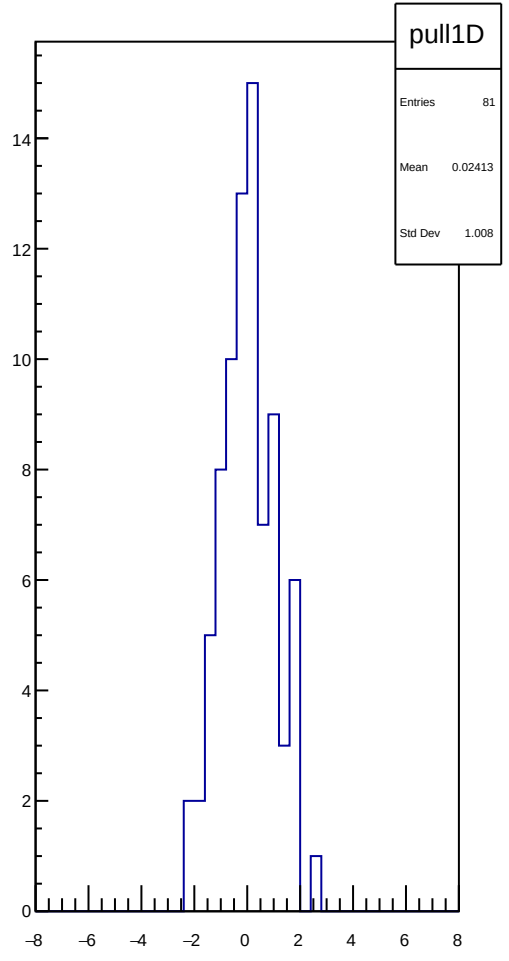

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 4661 / 80
p0 404.4 ± 0.3254
460
440
420
400
380
360

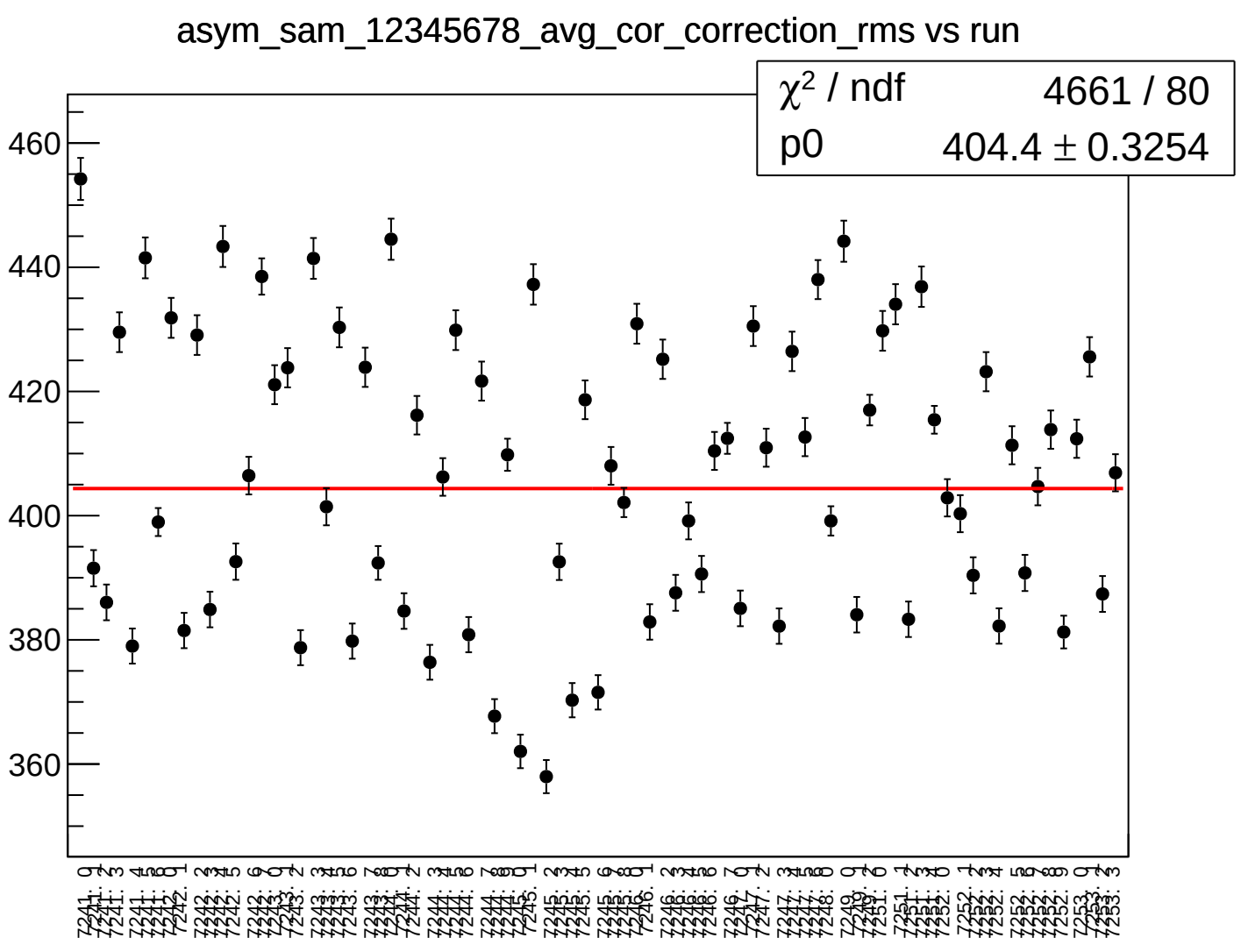

cor_asym_sam_12345678_avg_mean vs run
χ^2 / ndf 89.63 / 80
p0 51.12 ± 61.15
pull
Entries 81
Mean 831.7
Std Dev 0

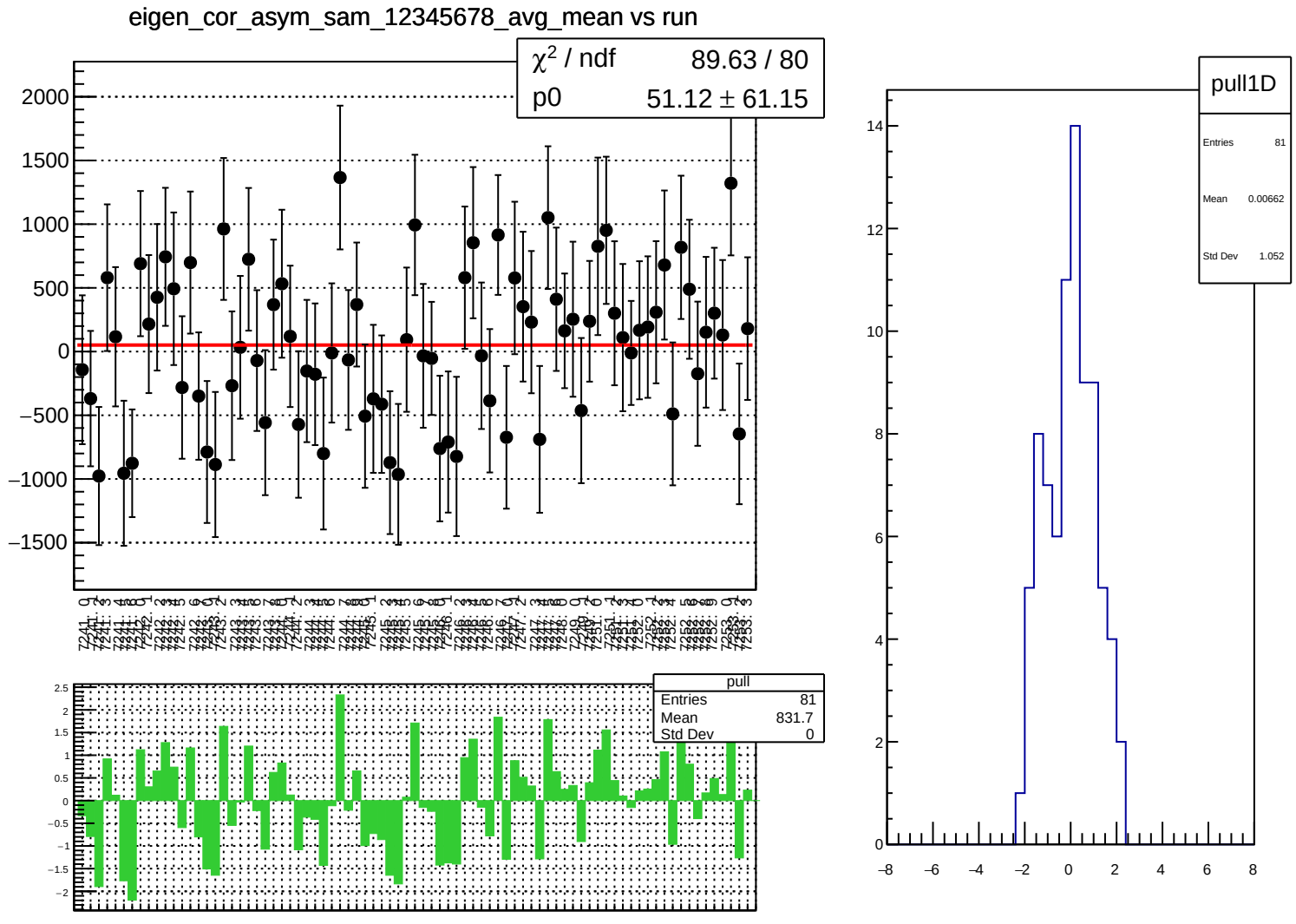

pull1D
Entries 81
Mean 0.00662
Std Dev 1.052

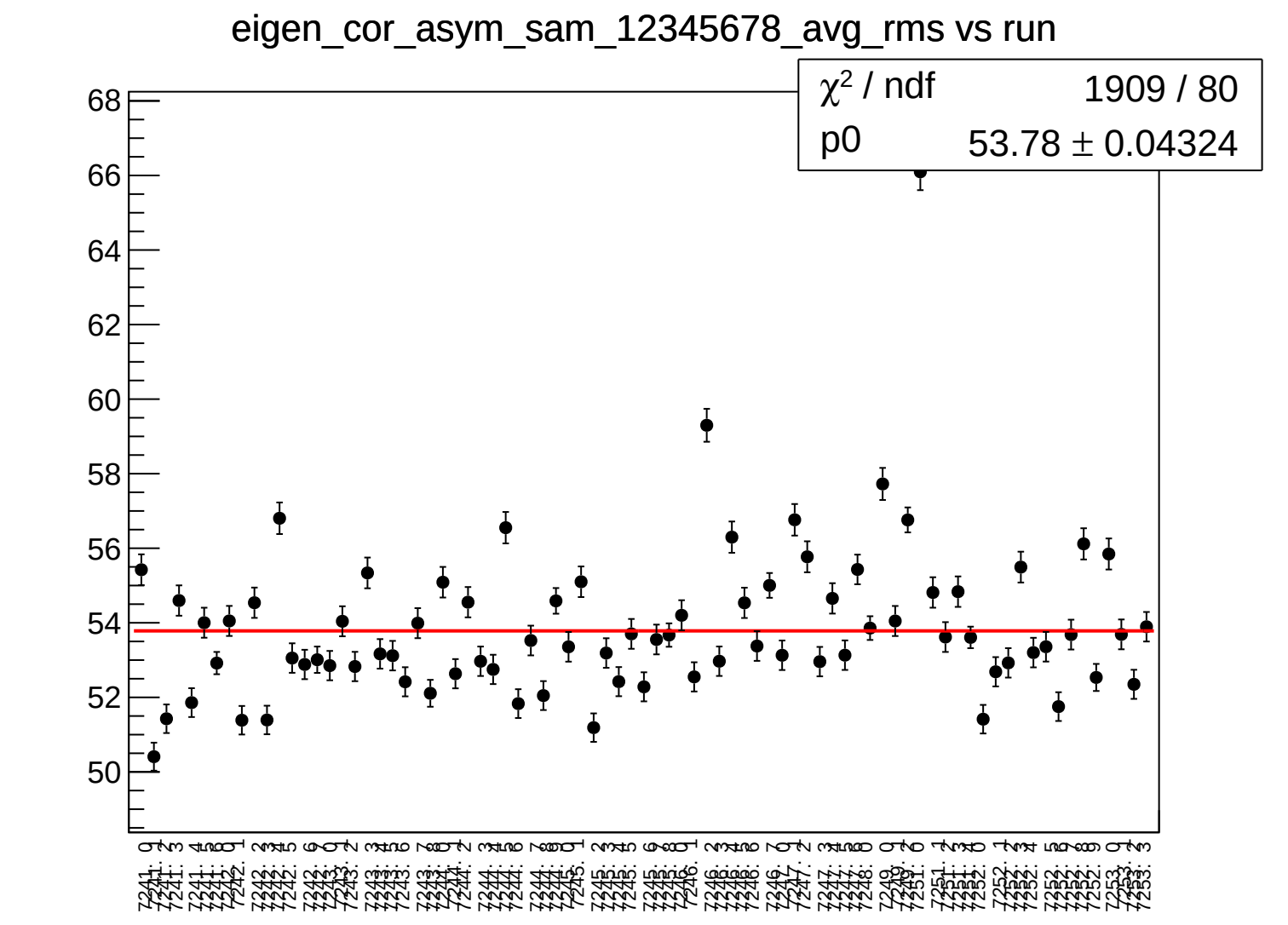

cor_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 1909 / 80
p0 53.78 ± 0.04324
68
66
64
62
60
58
56
54
52
50

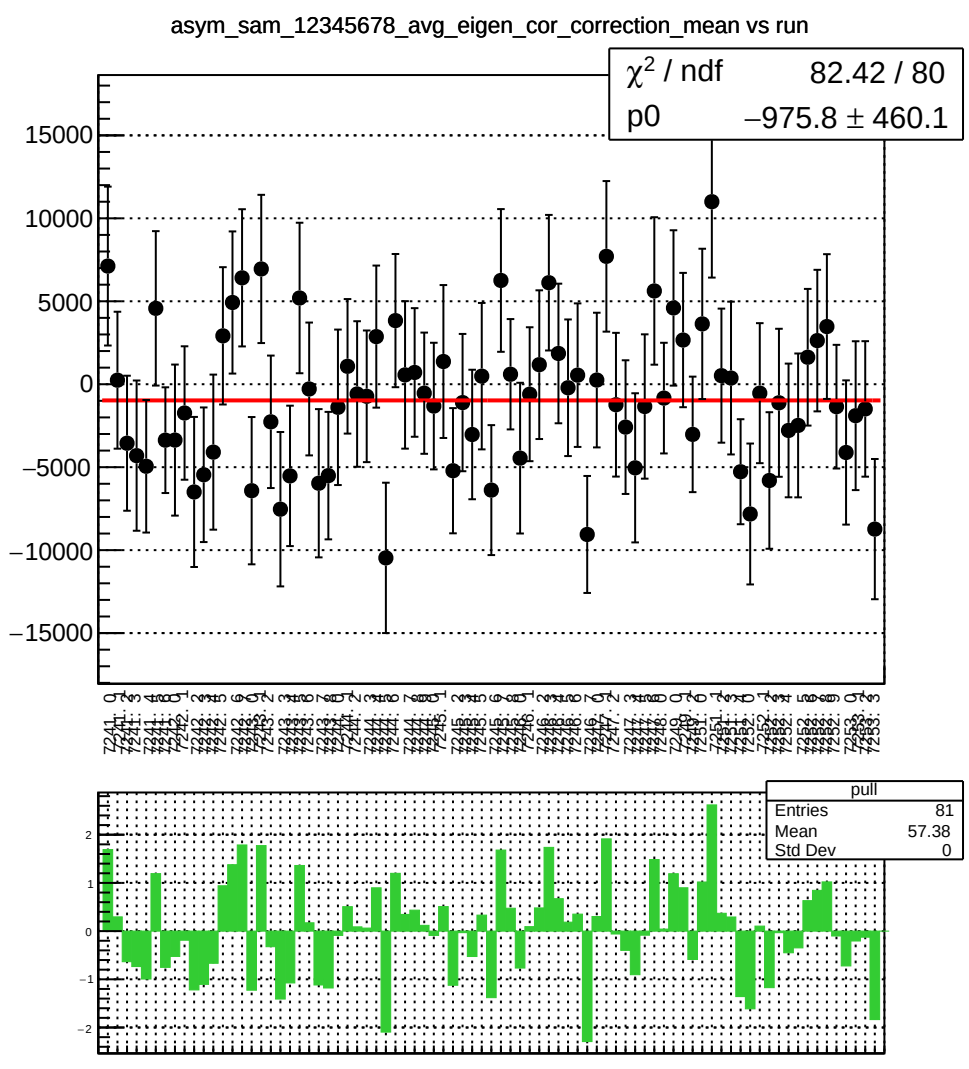

asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 82.42 / 80
p0 −975.8 ± 460.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean 57.38
Std Dev 0
2
1
0
−1
−2

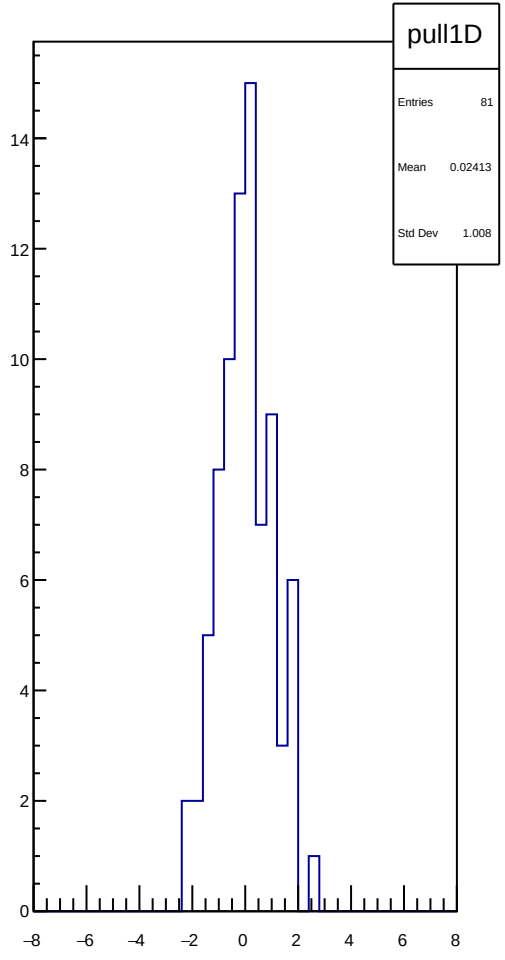

pull1D
Entries 81
Mean 0.02413
Std Dev 1.008
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

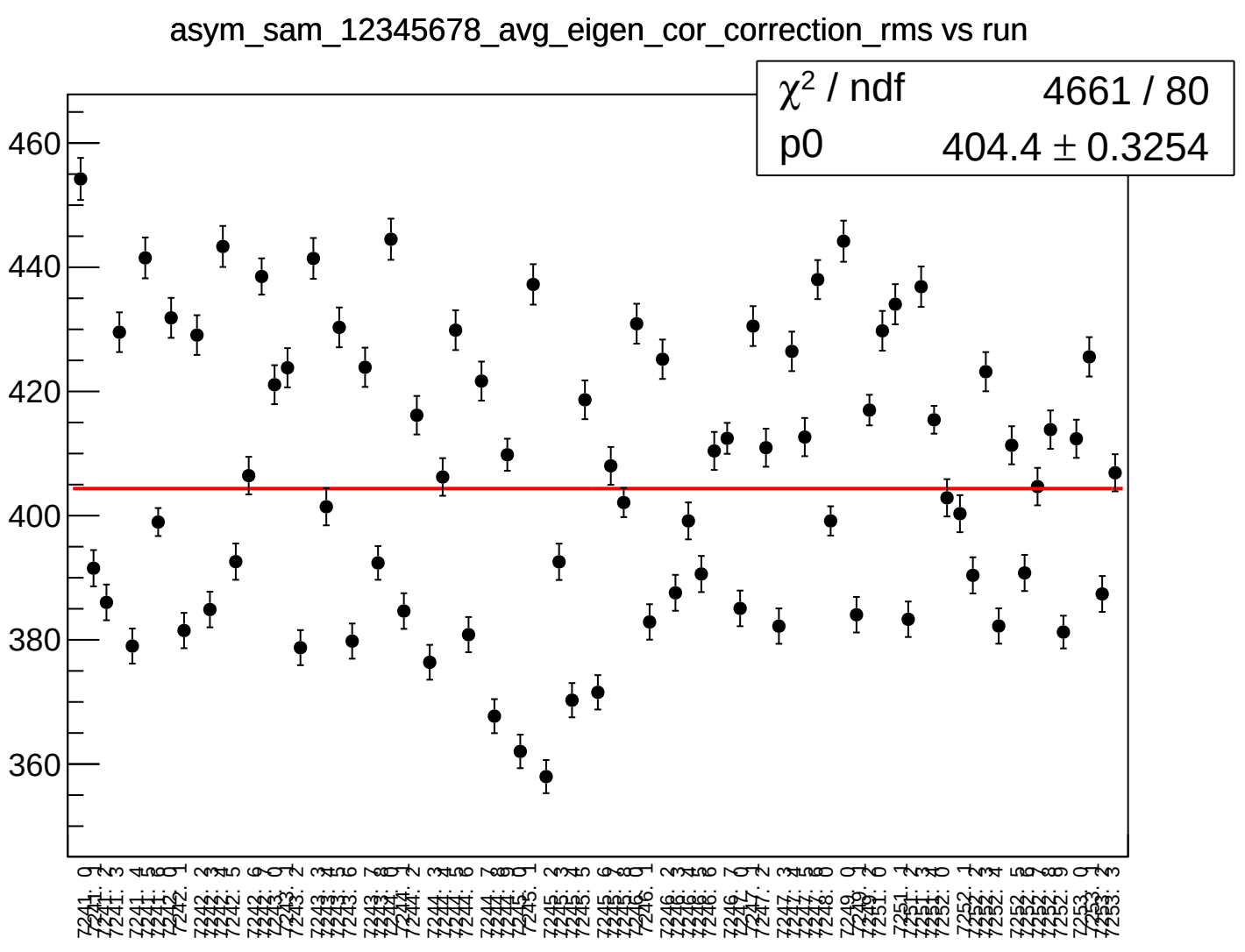

asym_sam_12345678_avg_cor_correction_rms vs run
χ² / ndf 4661 / 80
p0 404.4 ± 0.3254
460
440
420
400
380
360

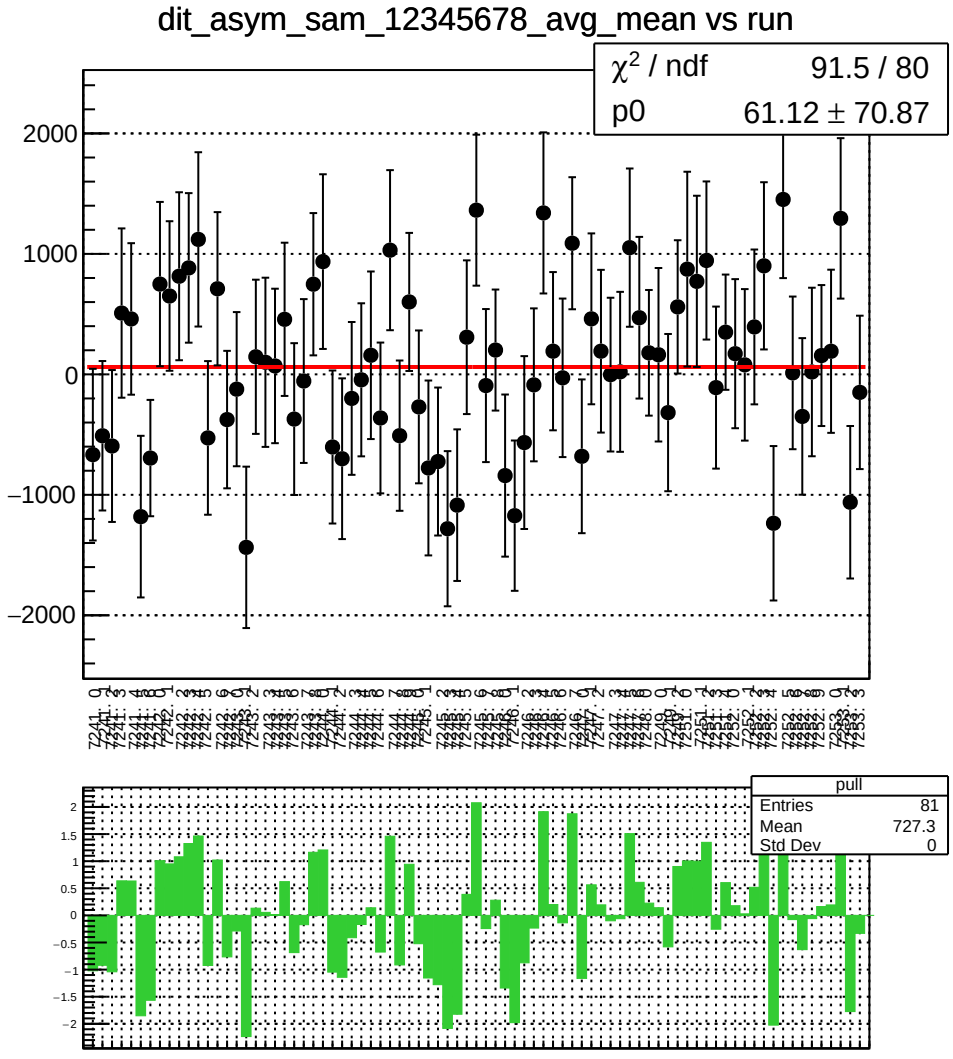

eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 89.63 / 80
p0 51.12 ± 61.15
pull
Entries 81
Mean 831.7
Std Dev 0
pull1D
Entries 81
Mean 0.00662
Std Dev 1.052

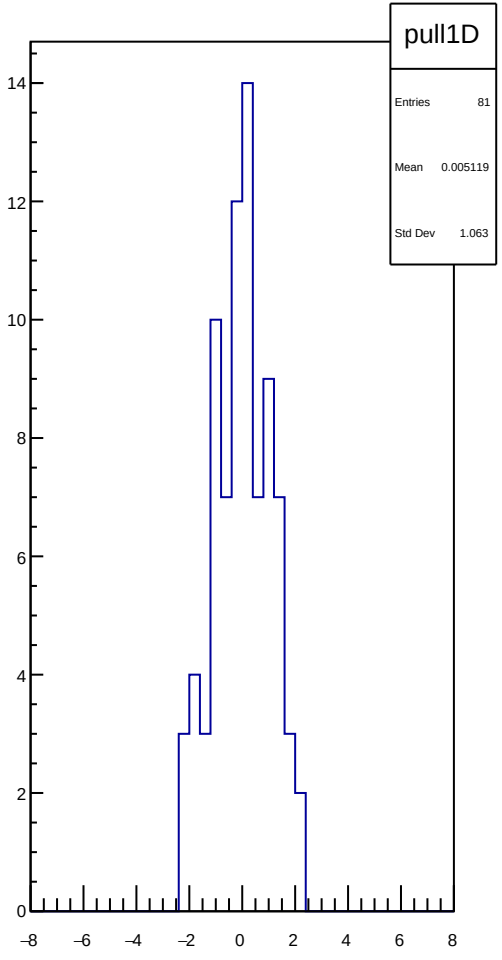

eigen_cor_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 1909 / 80
p0 53.78 ± 0.04324
68
66
64
62
60
58
56
54
52
50

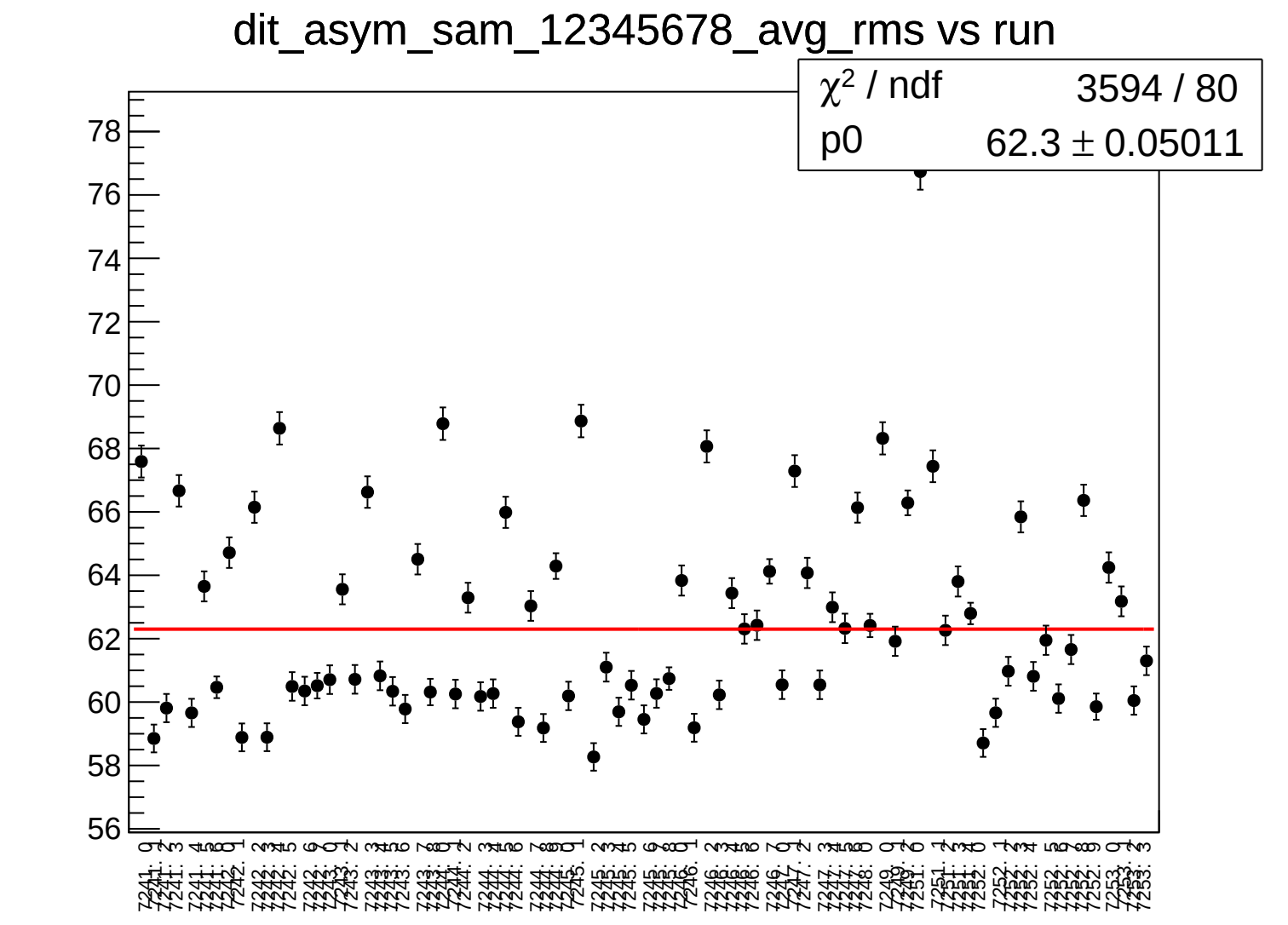

asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 82.42 / 80
p0 −975.8 ± 460.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean 57.38
Std Dev 0
2
1
0
−1
−2

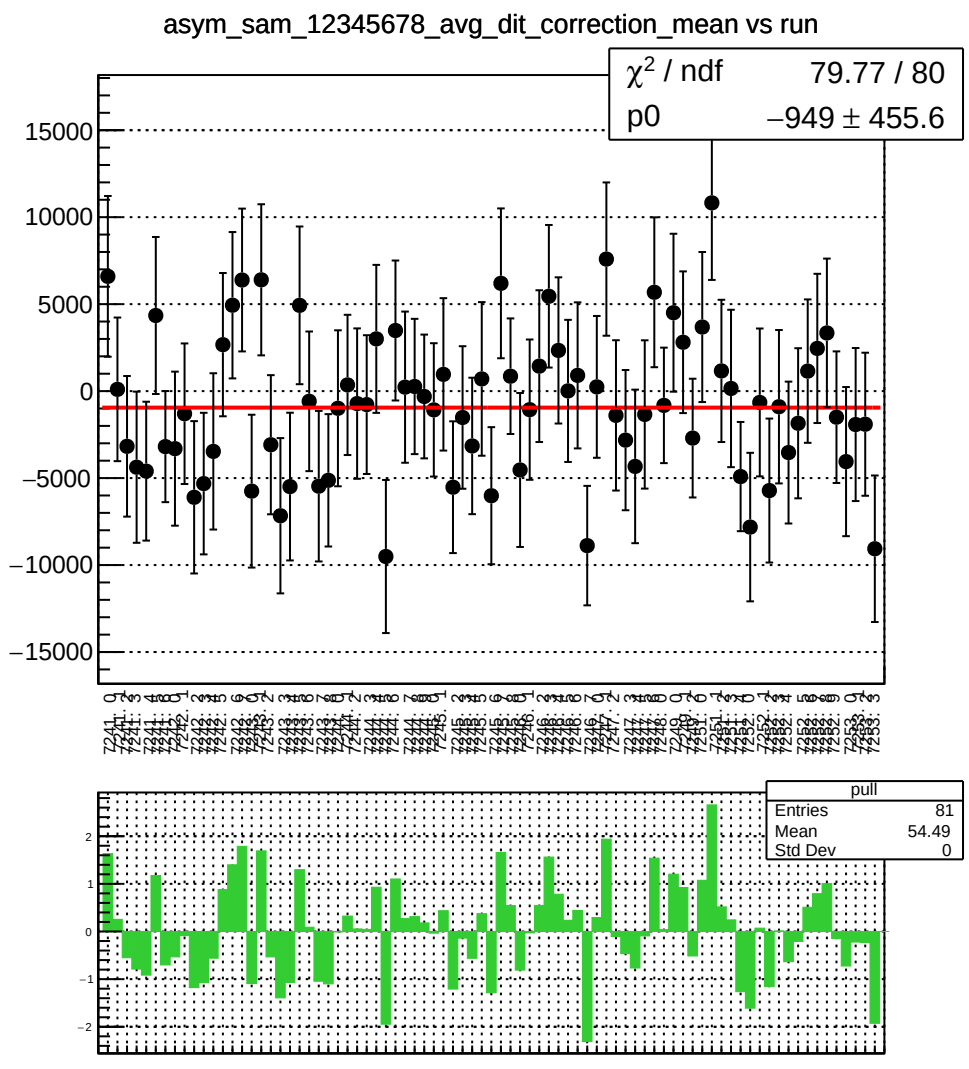

pull1D
Entries 81
Mean 0.02413
Std Dev 1.008
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

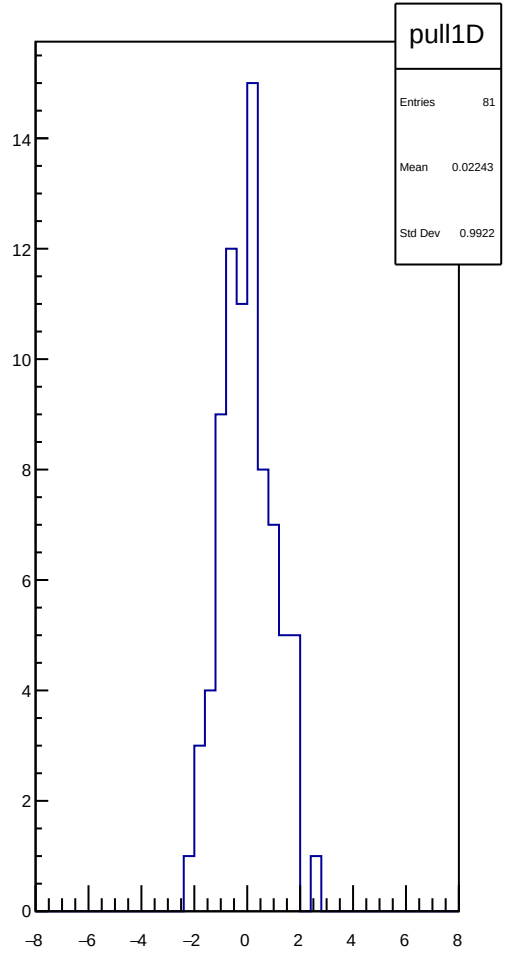

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 4661 / 80
p0 404.4 ± 0.3254
460
440
420
400
380
360

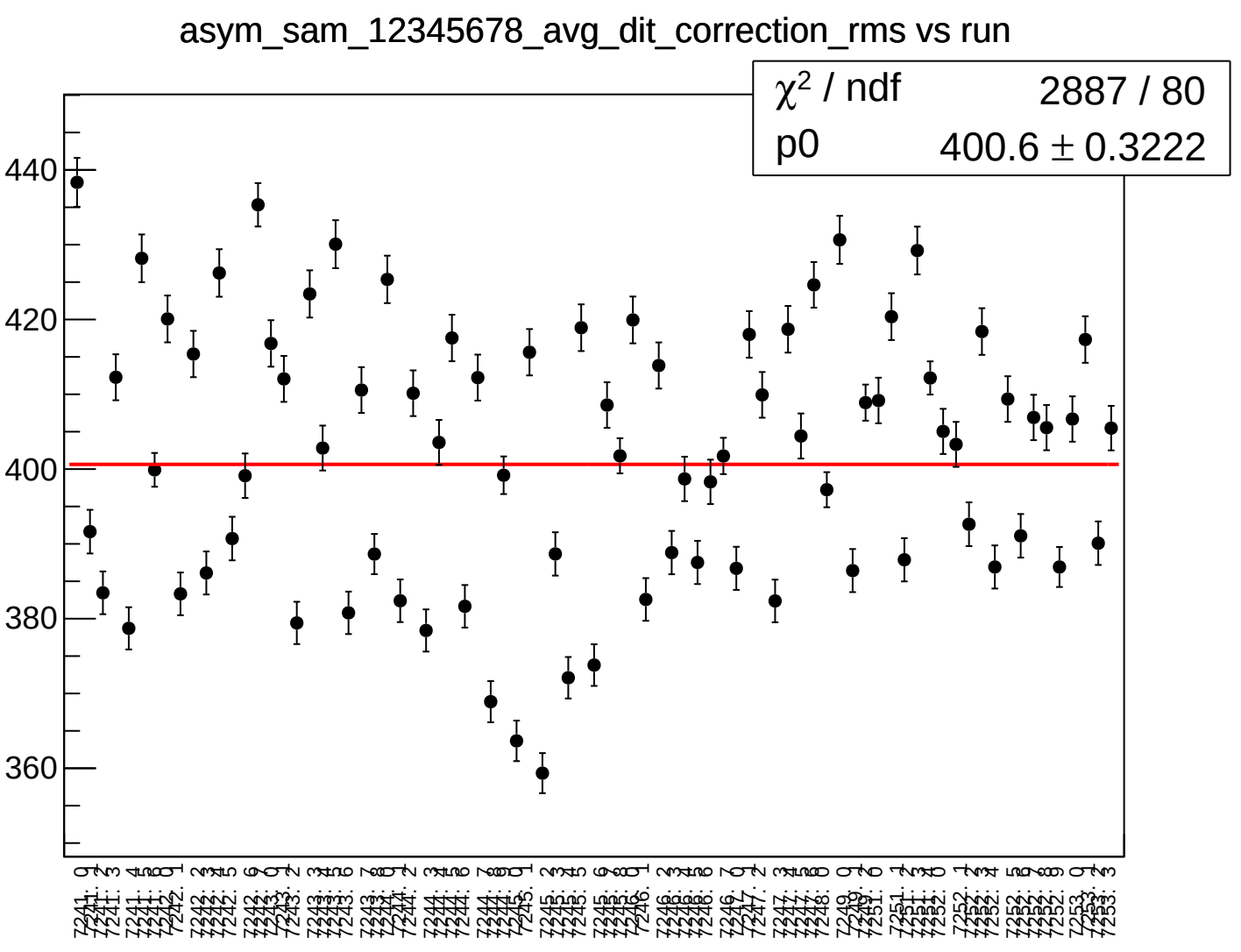

dit_asym_sam_12345678_avg_mean vs run
χ^2 / ndf 91.5 / 80
p0 61.12 ± 70.87
2000
1000
0
−1000
−2000
pull
Entries 81
Mean 727.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

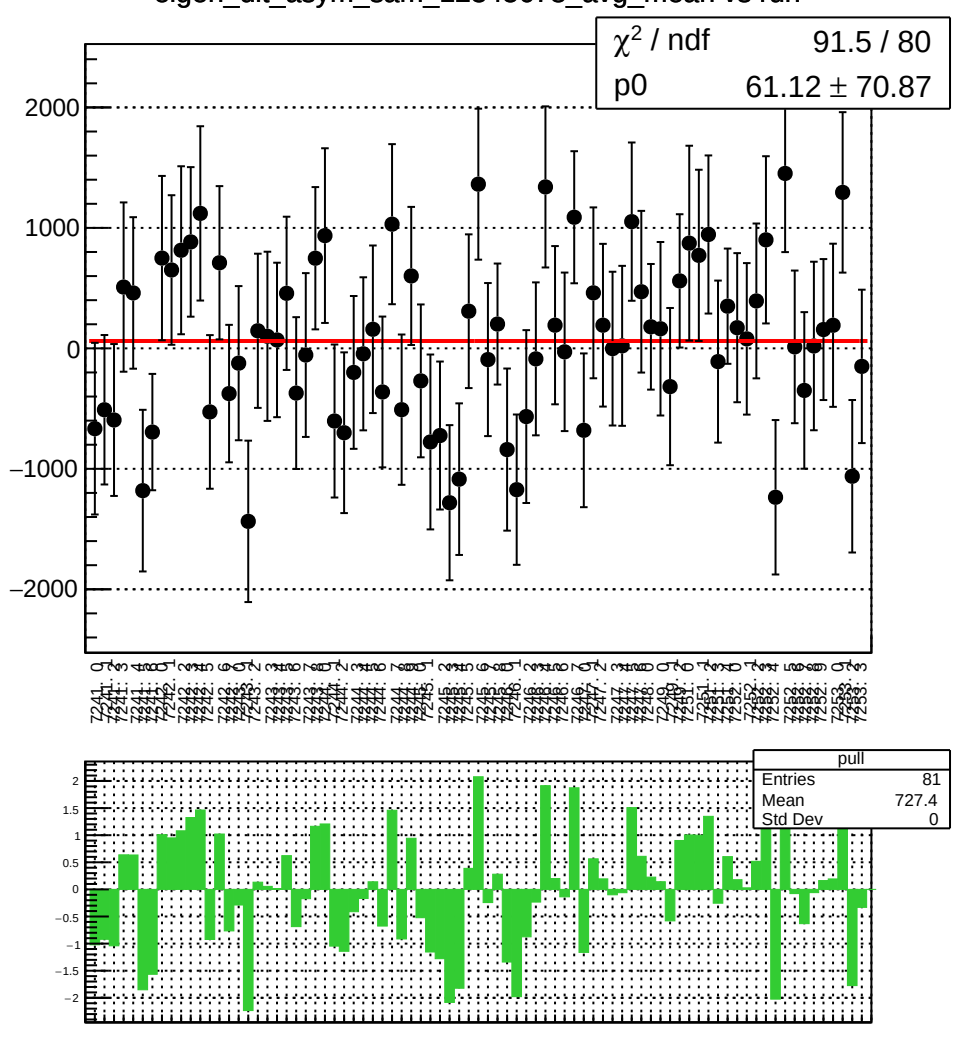

pull1D
Entries 81
Mean 0.005119
Std Dev 1.063
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

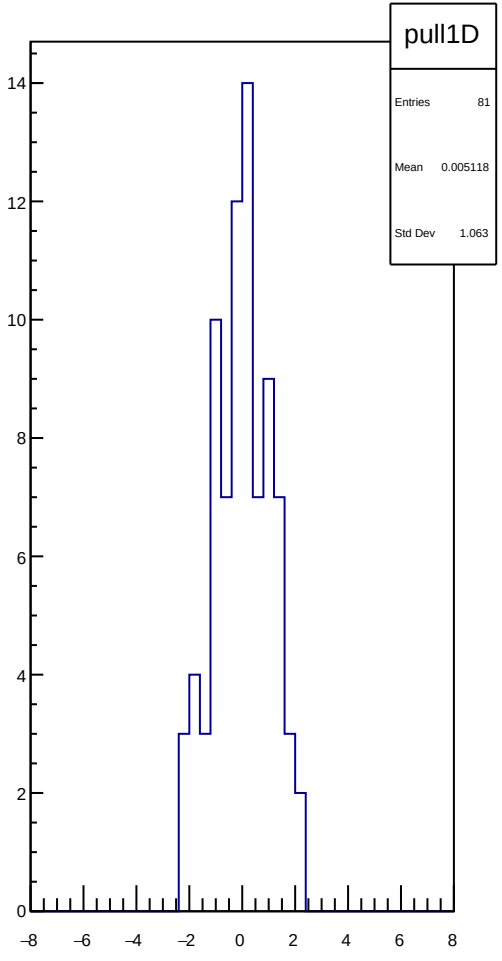

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 3594 / 80
p0 62.3 ± 0.05011
78
76
74
72
70
68
66
64
62
60
58
56

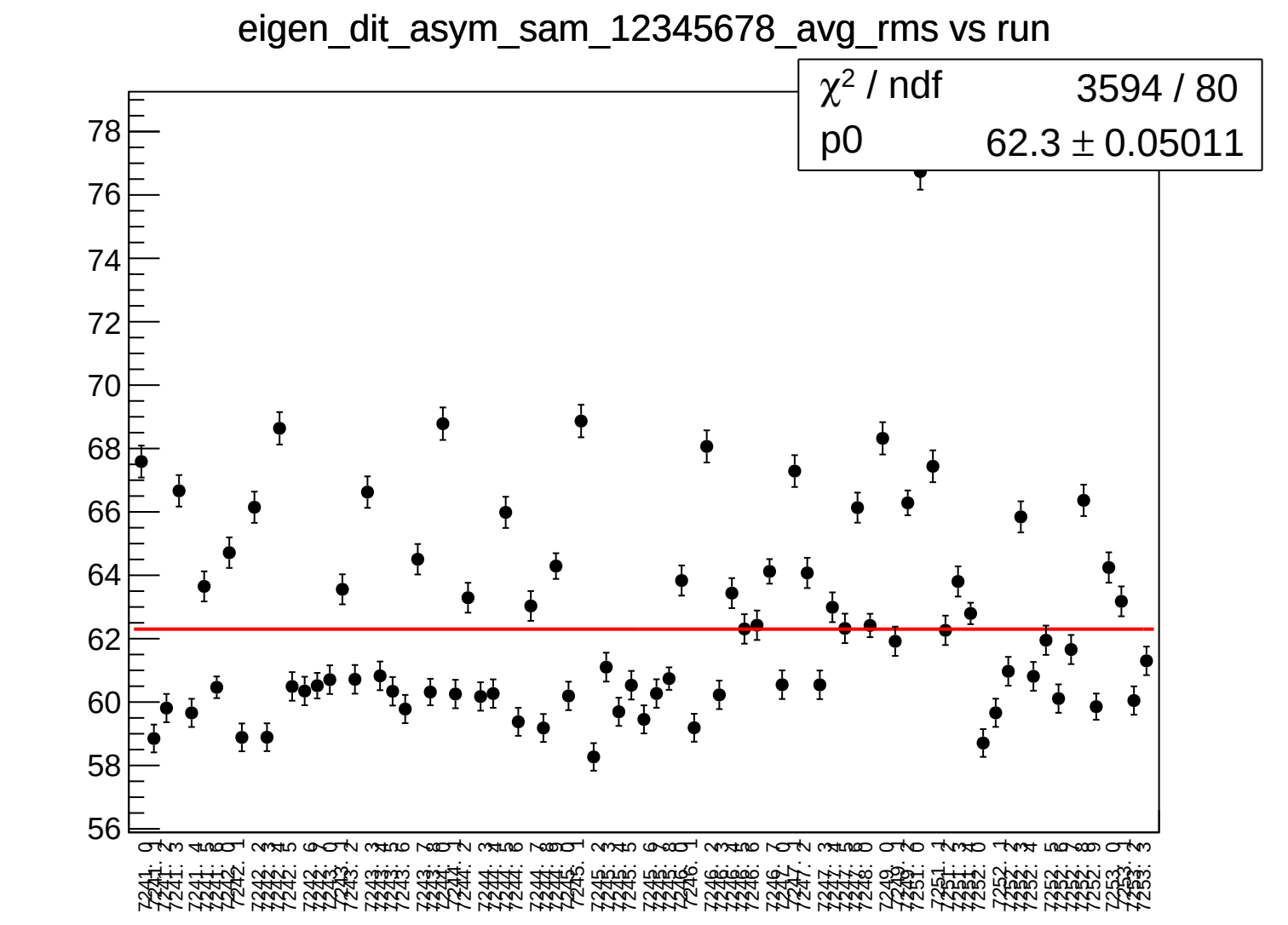

asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 79.77 / 80
p0 −949 ± 455.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean 54.49
Std Dev 0
2
1
0
−1
−2

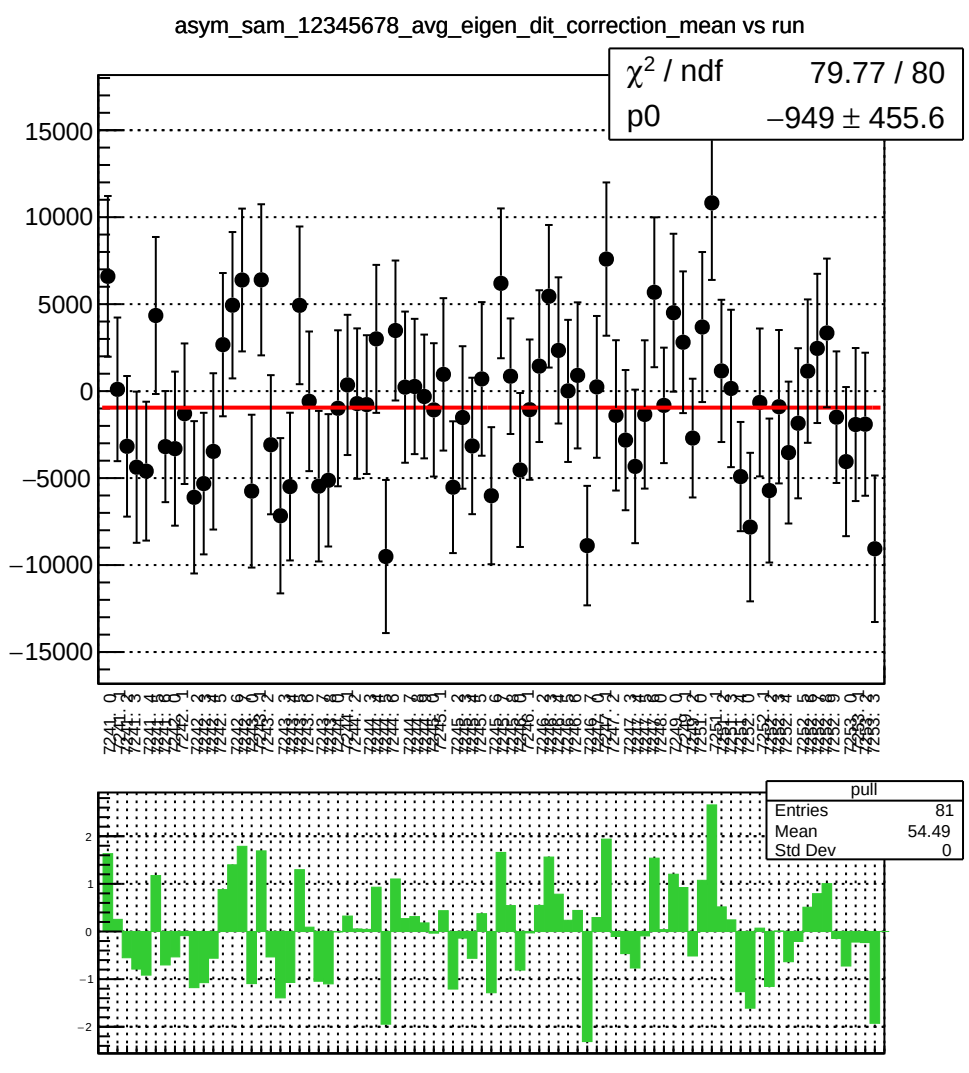

pull1D
Entries 81
Mean 0.02243
Std Dev 0.9922
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

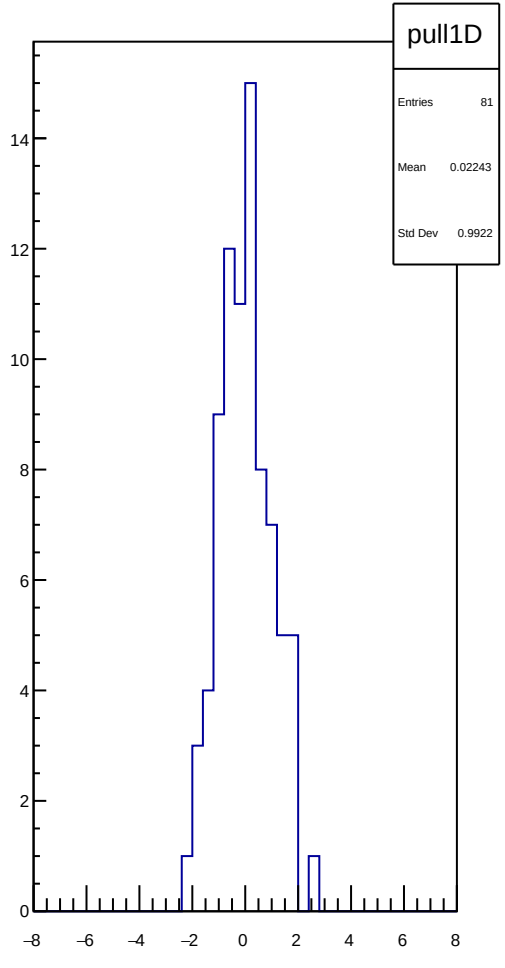

asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 2887 / 80
p0 400.6 ± 0.3222
440
420
400
380
360

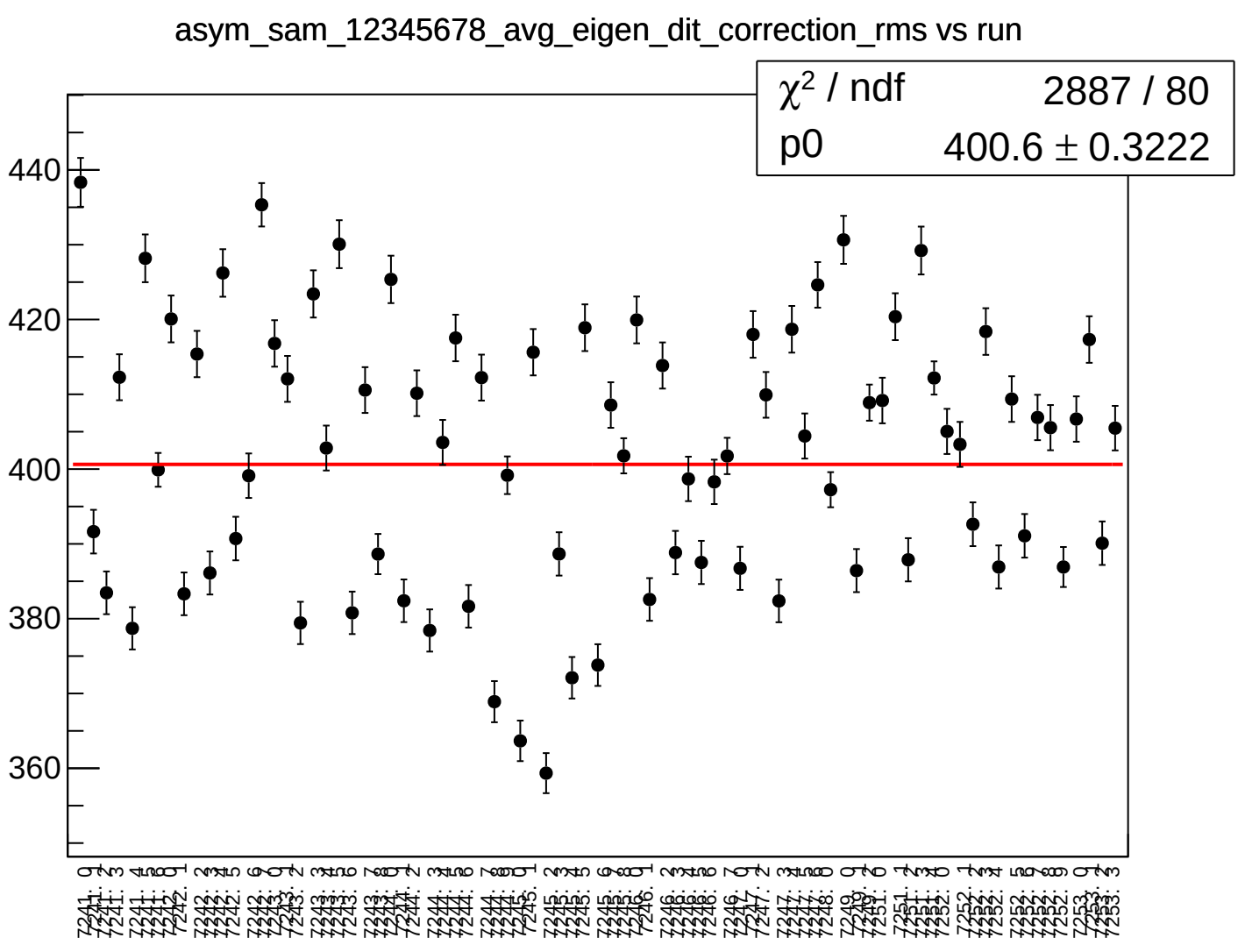

eigen_dit_asym_sam_12345678_avg_mean vs run
χ^2 / ndf 91.5 / 80
p0 61.12 ± 70.87
2000
1000
0
−1000
−2000
pull
Entries 81
Mean 727.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

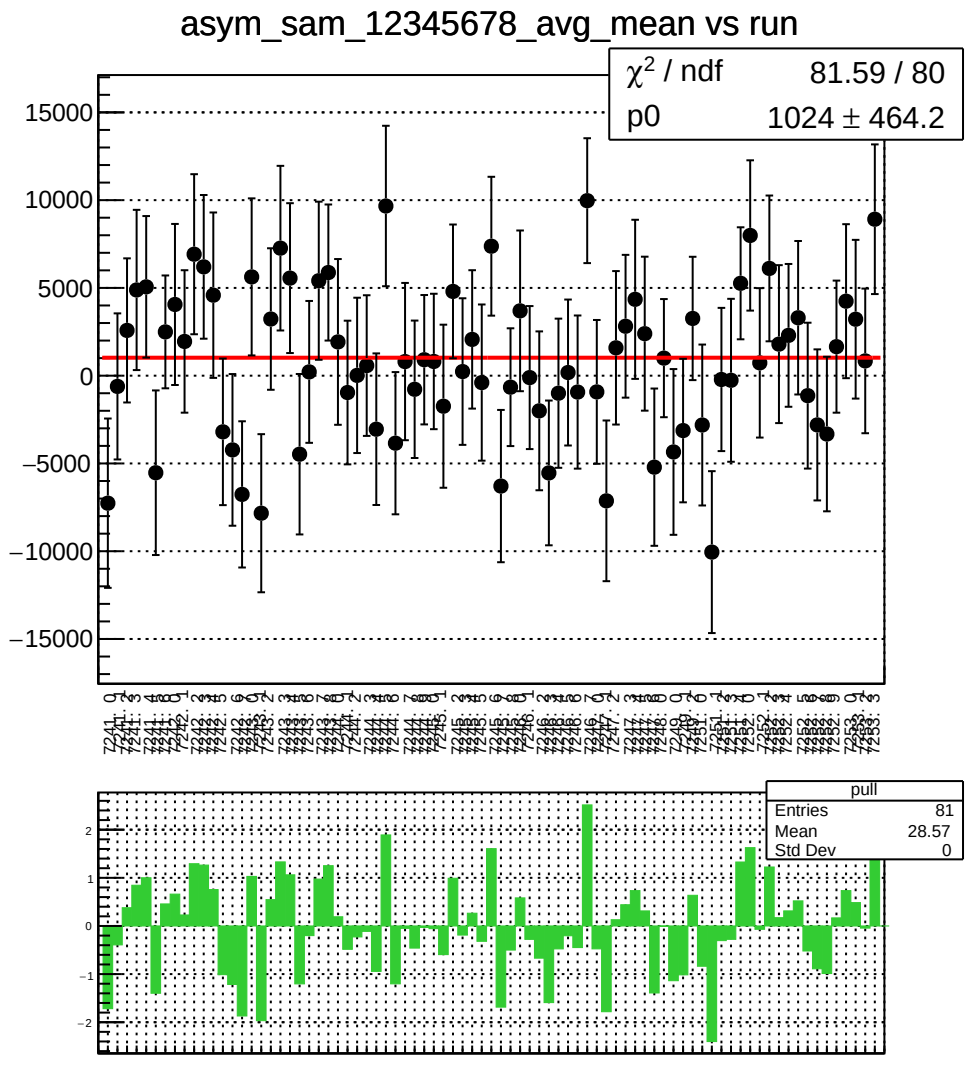

pull1D
Entries 81
Mean 0.005118
Std Dev 1.063
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

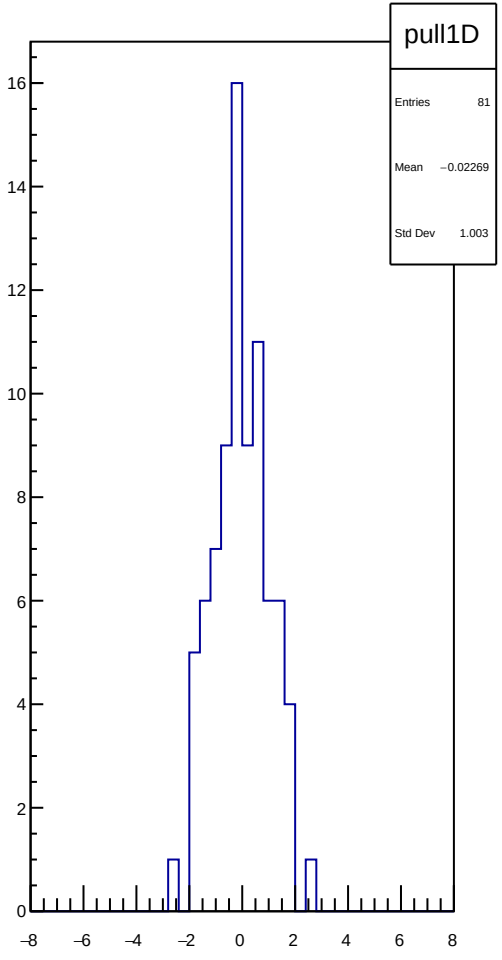

eigen_dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 3594 / 80
p0 62.3 ± 0.05011
78
76
74
72
70
68
66
64
62
60
58
56

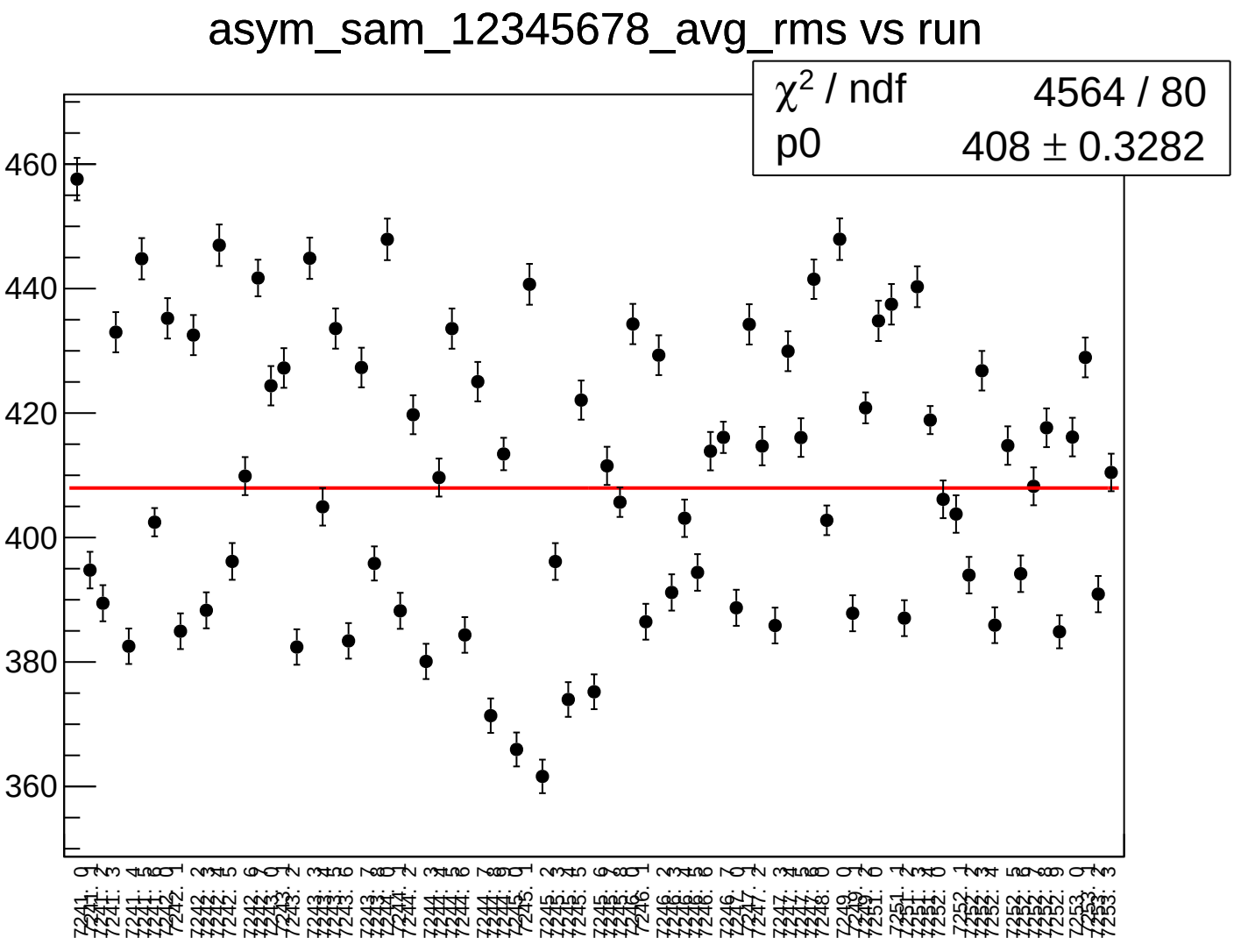

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 79.77 / 80
p0 −949 ± 455.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean 54.49
Std Dev 0
2
1
0
−1
−2

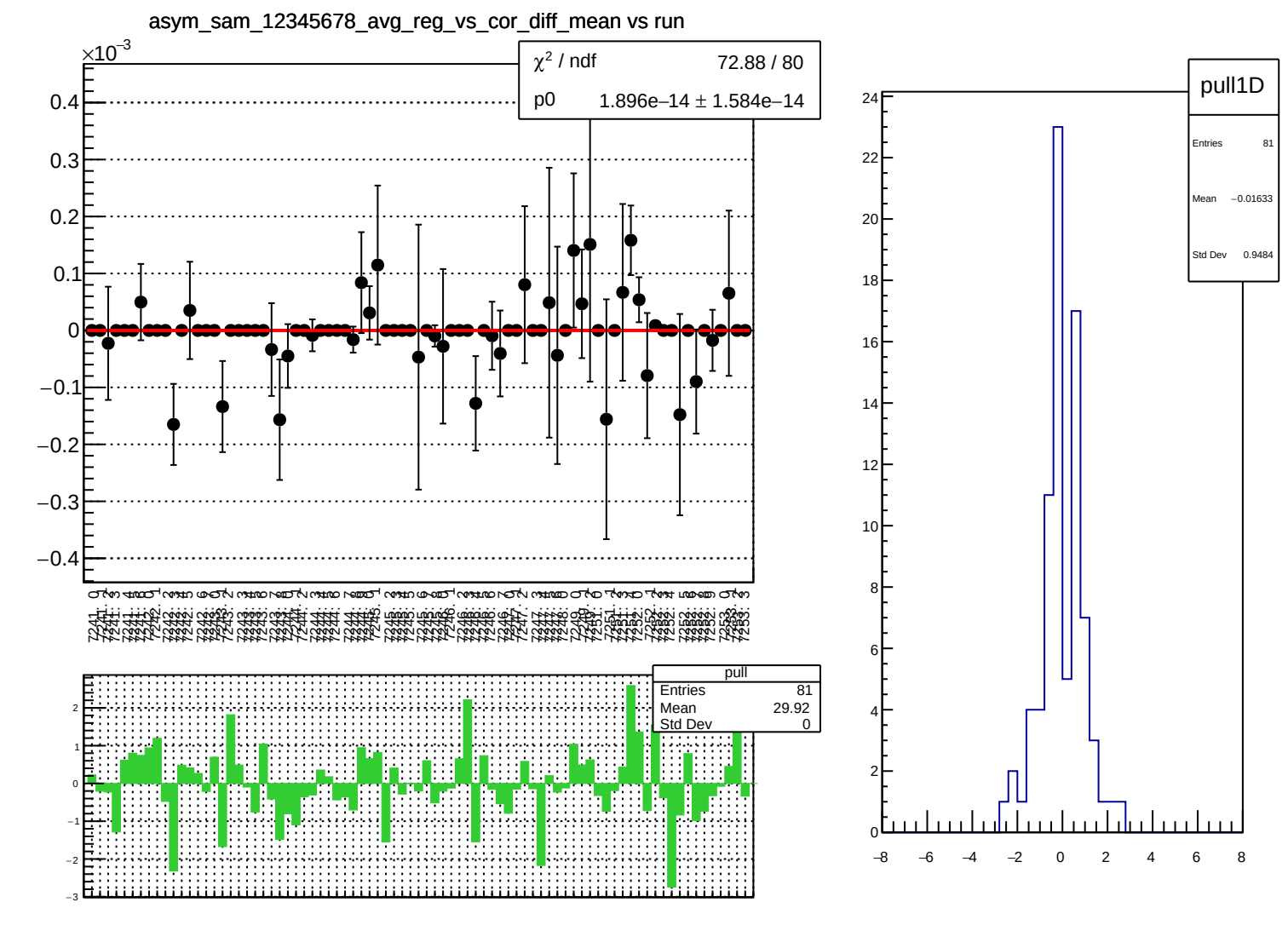

pull1D
Entries 81
Mean 0.02243
Std Dev 0.9922
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

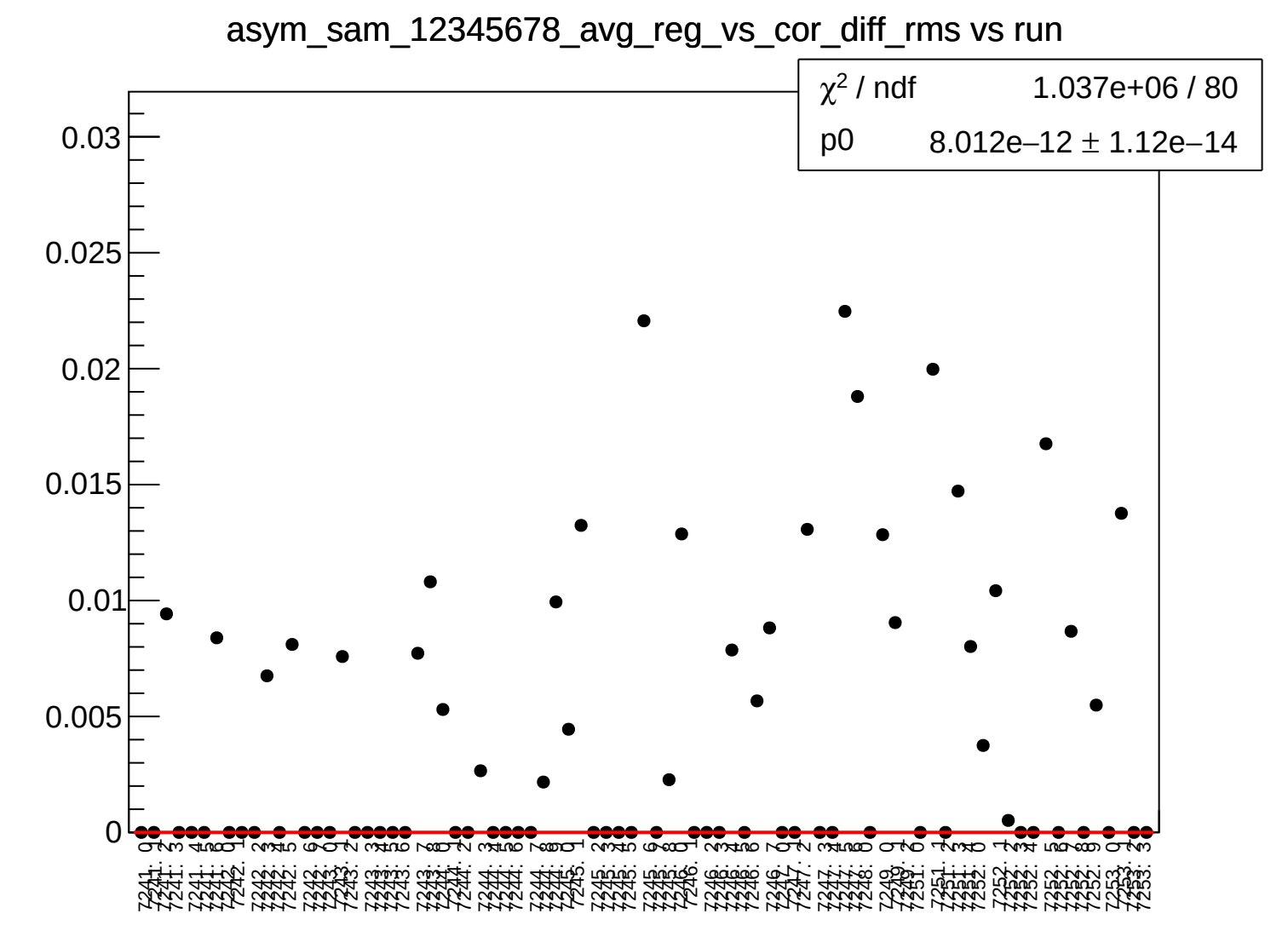

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 2887 / 80
p0 400.6 ± 0.3222
440
420
400
380
360

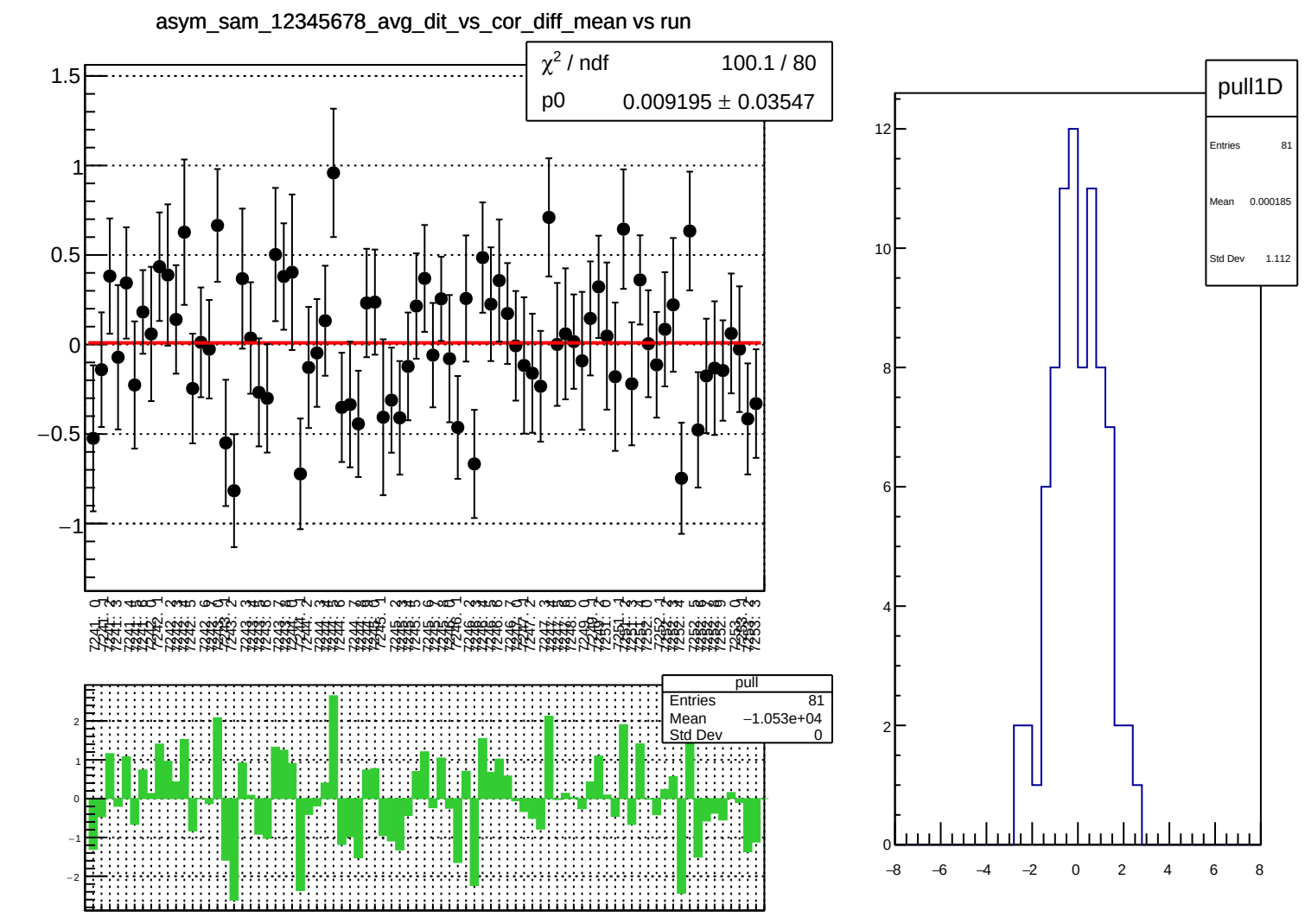

asym_sam_12345678_avg_mean vs run
χ² / ndf 81.59 / 80
p0 1024 ± 464.2
pull
Entries 81
Mean 28.57
Std Dev 0

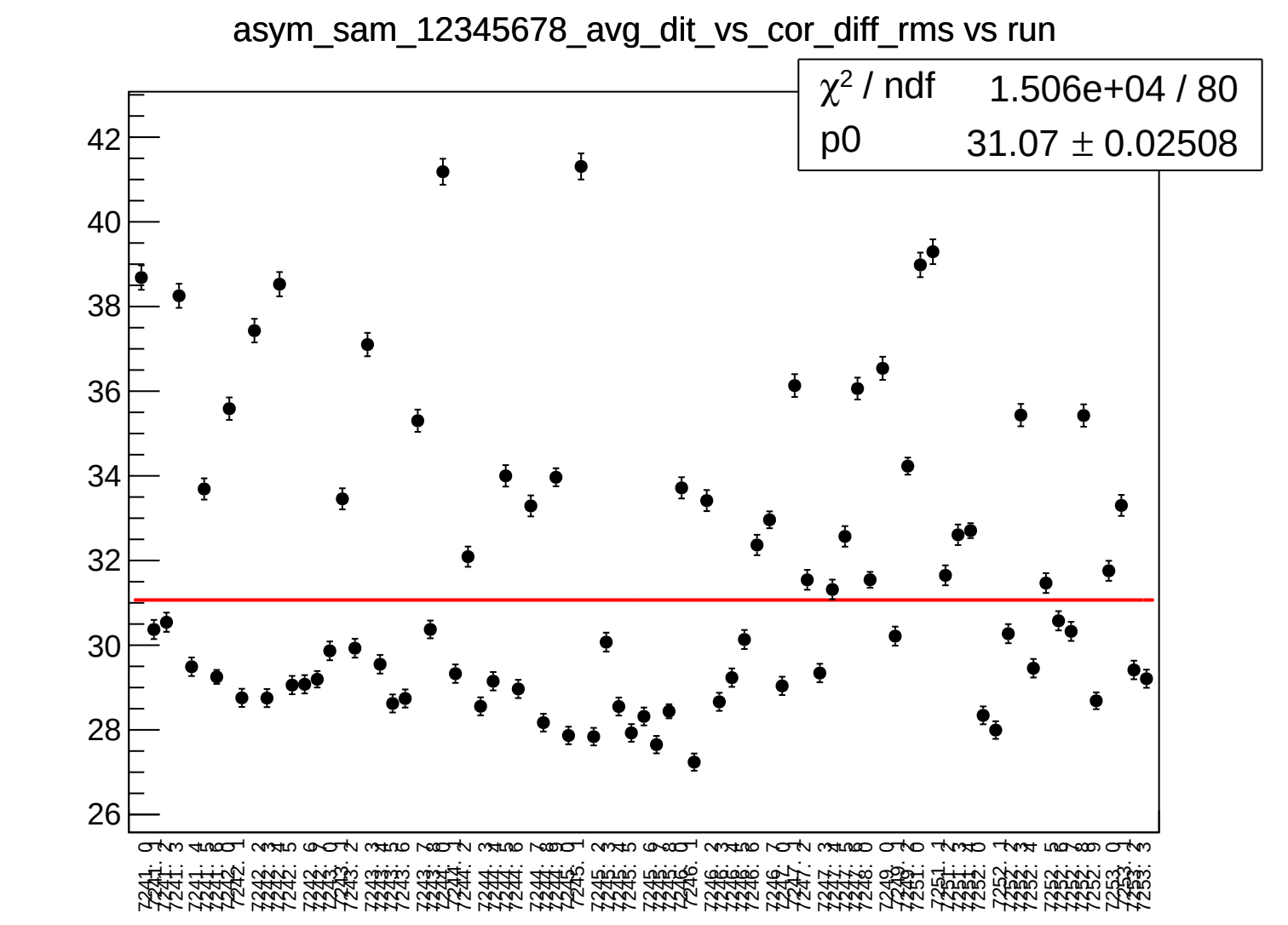

pull1D
Entries 81
Mean −0.02269
Std Dev 1.003

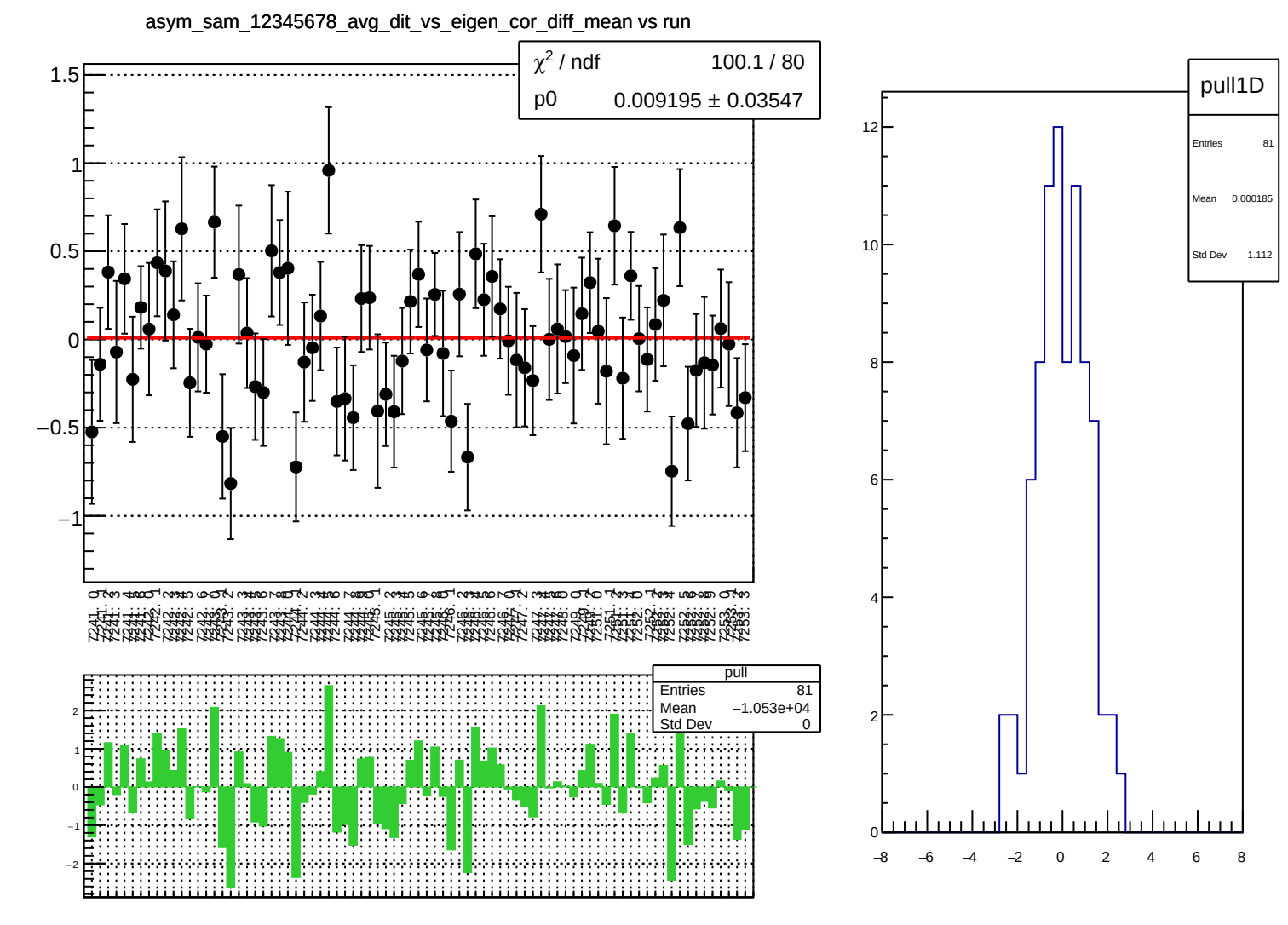

asym_sam_12345678_avg_rms vs run
χ² / ndf 4564 / 80
p0 408 ± 0.3282
460
440
420
400
380
360

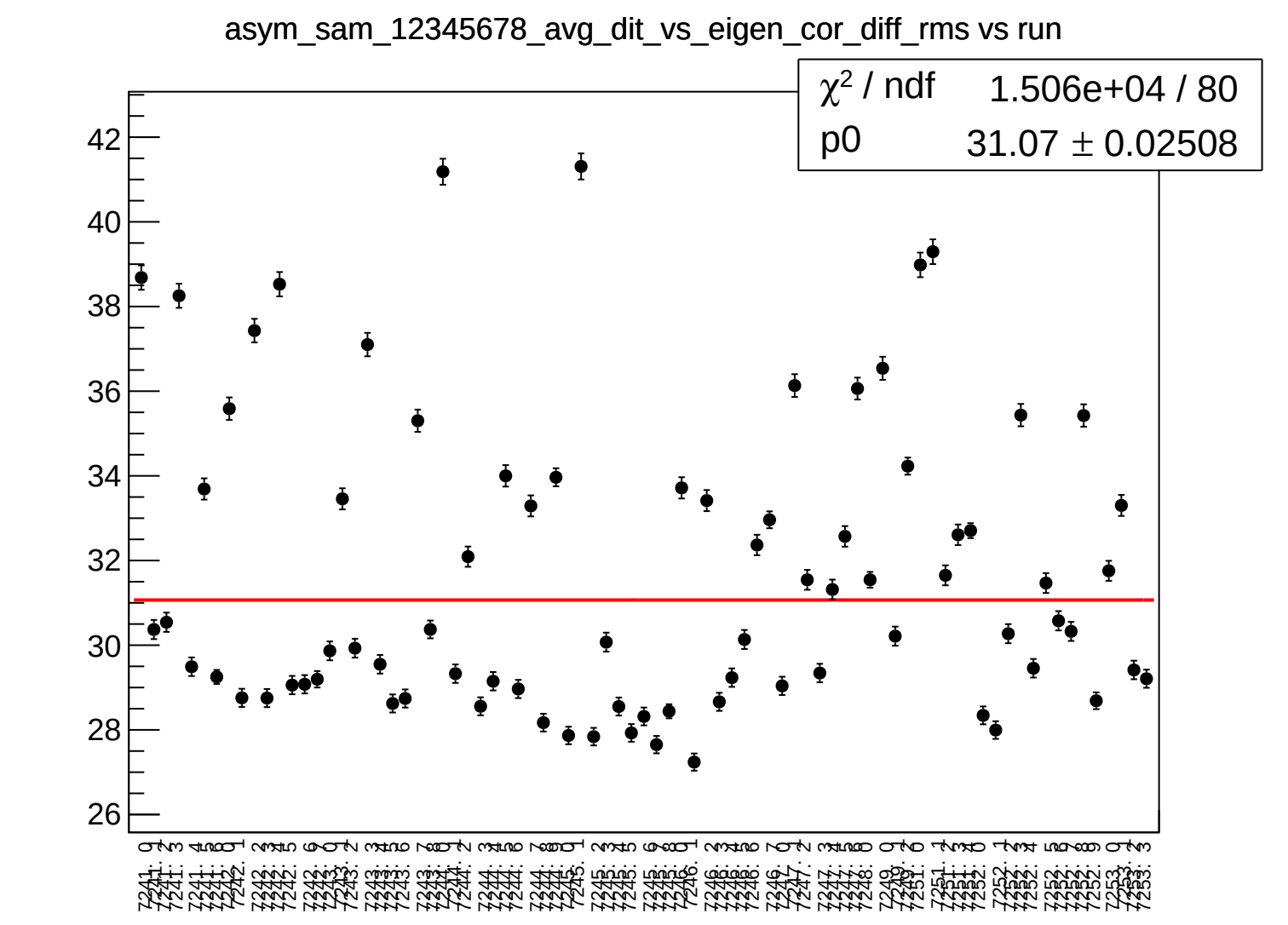

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 72.88 / 80
p0 1.896e−14 ± 1.584e−14
pull
Entries 81
Mean 29.92
Std Dev 0
pull1D
Entries 81
Mean −0.01633
Std Dev 0.9484

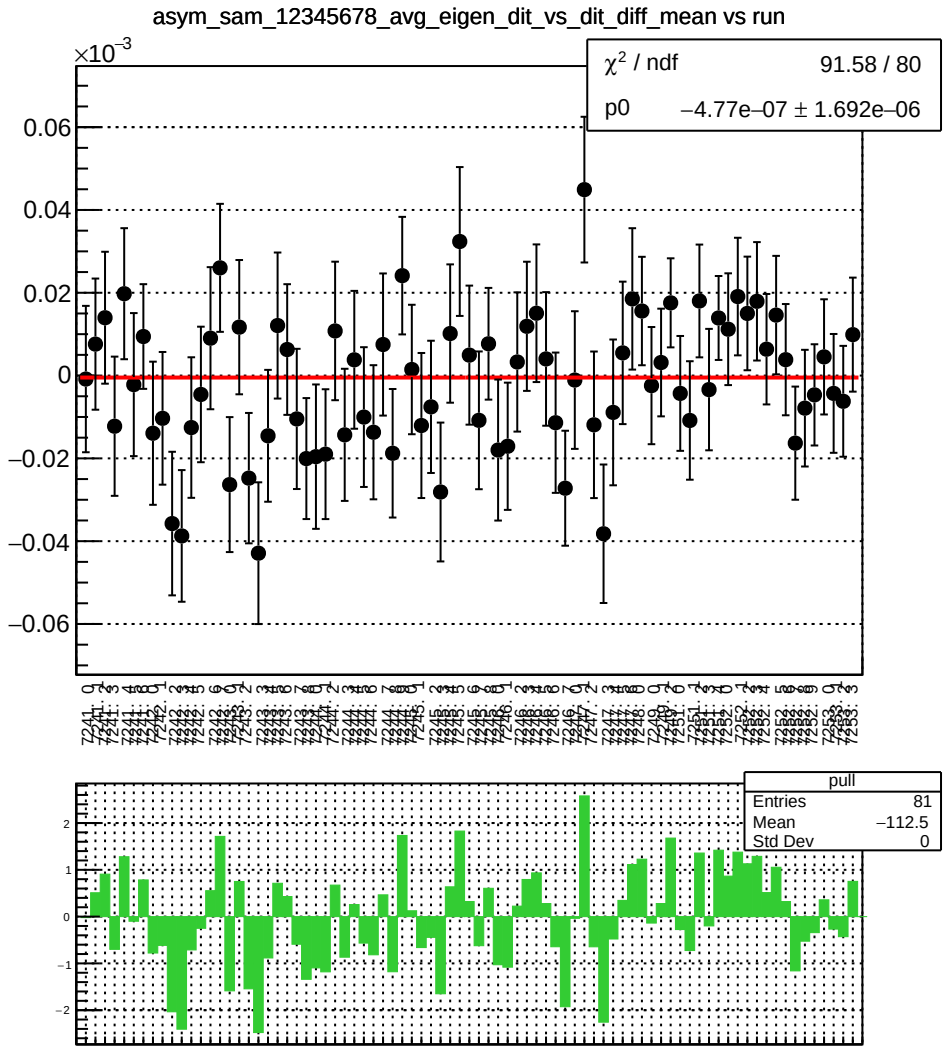

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.037e+06 / 80
p0 8.012e−12 ± 1.12e−14
0.03
0.025
0.02
0.015
0.01
0.005
0

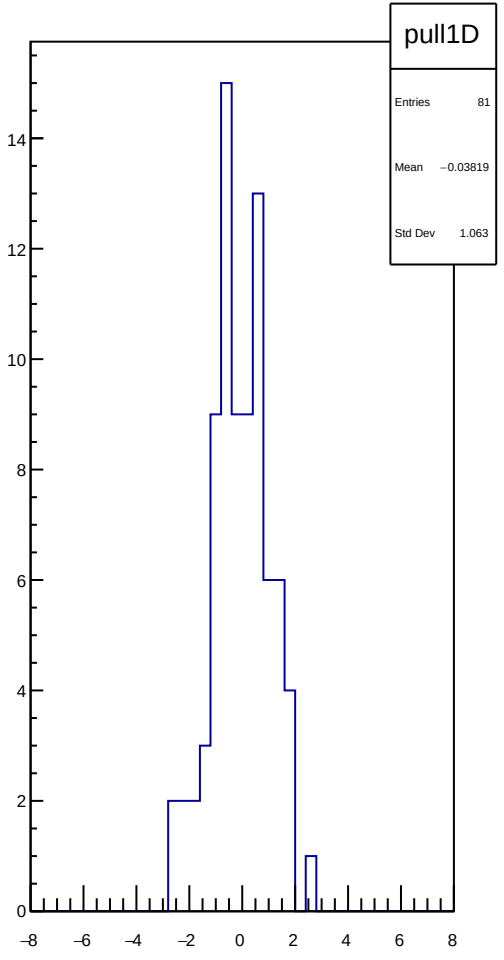

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 100.1 / 80
p0 0.009195 ± 0.03547
pull
Entries 81
Mean −1.053e+04
Std Dev 0
pull1D
Entries 81
Mean 0.000185
Std Dev 1.112

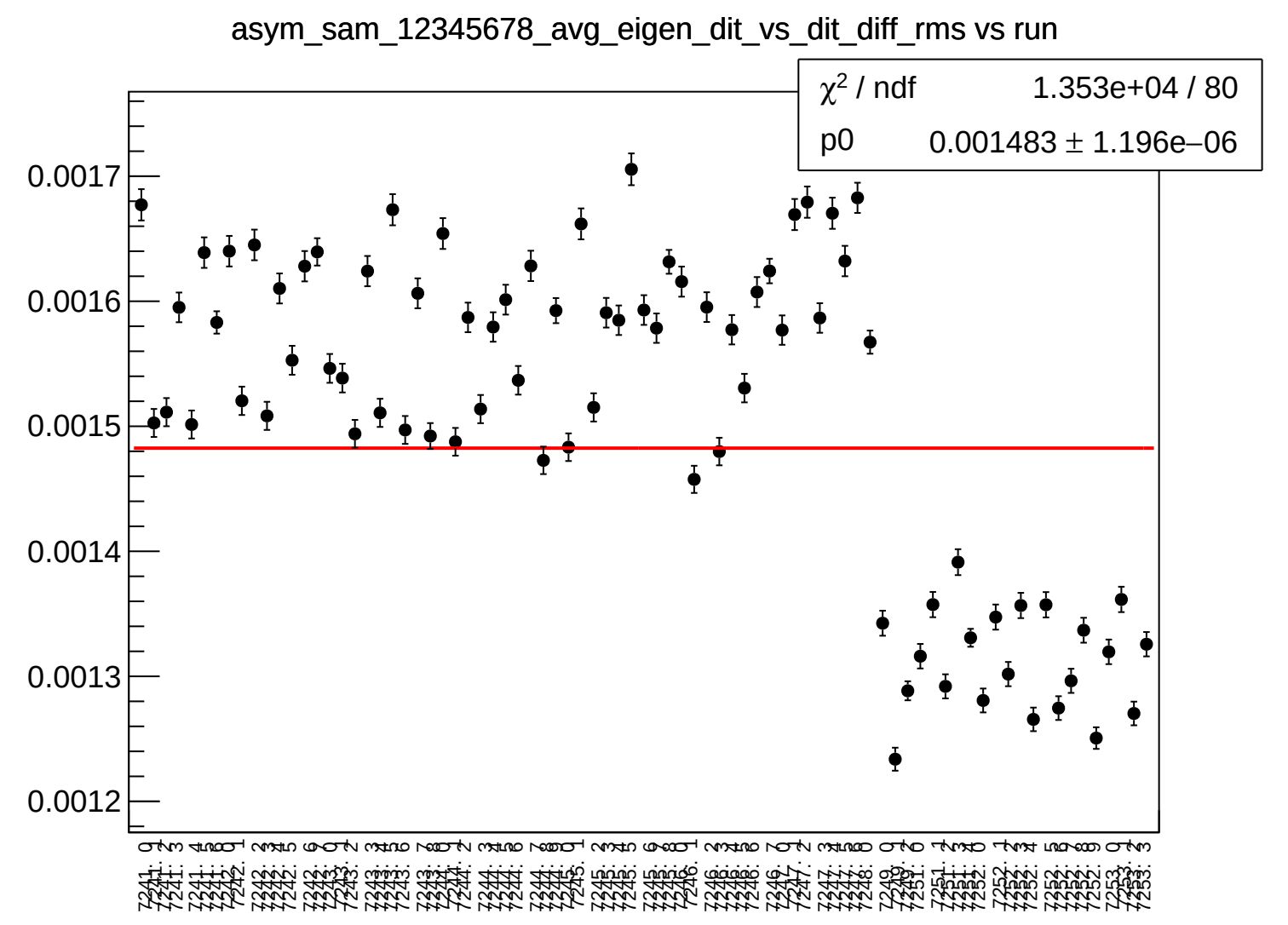

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.506e+04 / 80
p0 31.07 ± 0.02508
42
40
38
36
34
32
30
28
26

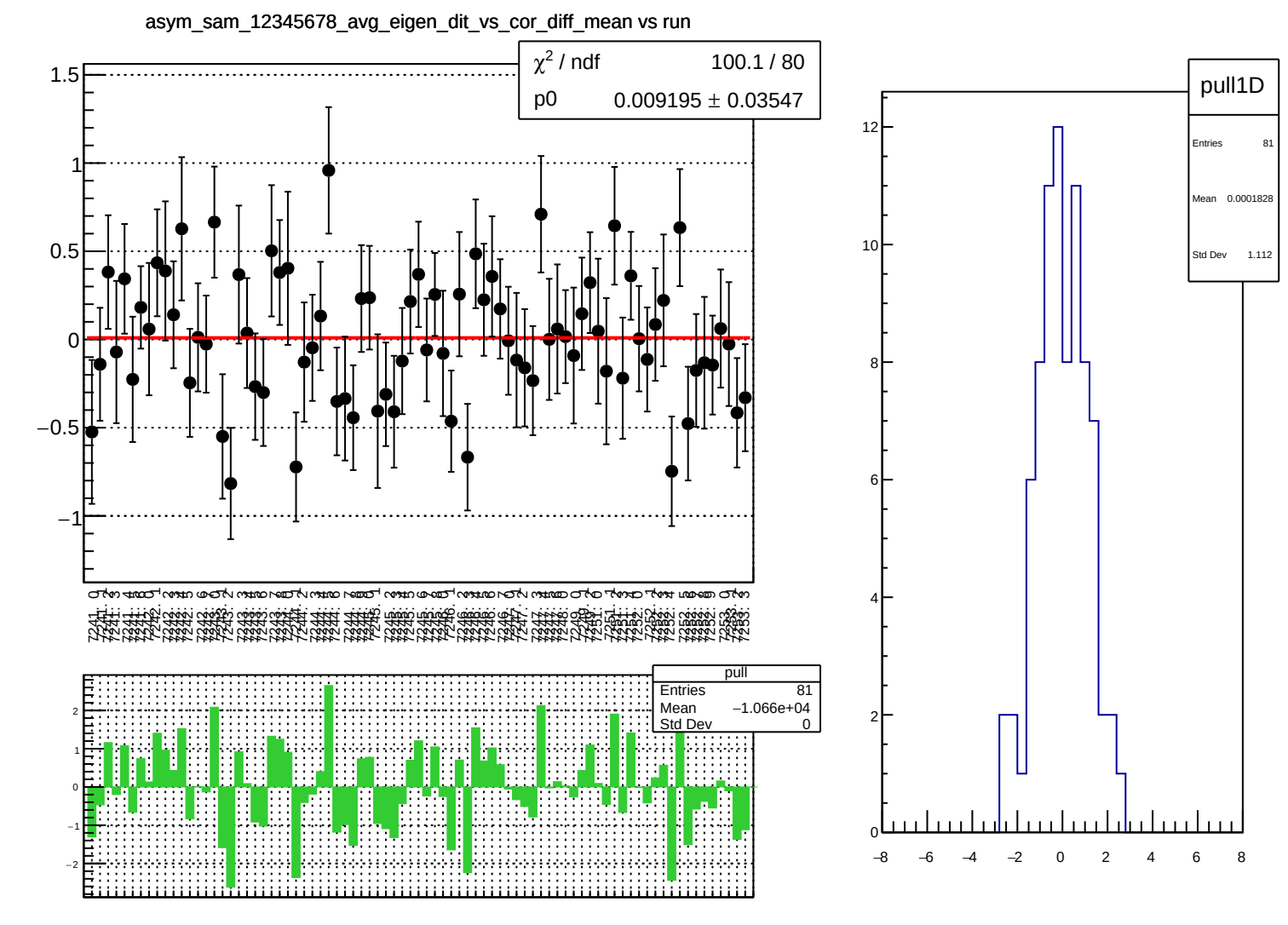

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.1 / 80
p0 0.009195 ± 0.03547
pull
Entries 81
Mean −1.053e+04
Std Dev 0
pull1D
Entries 81
Mean 0.000185
Std Dev 1.112

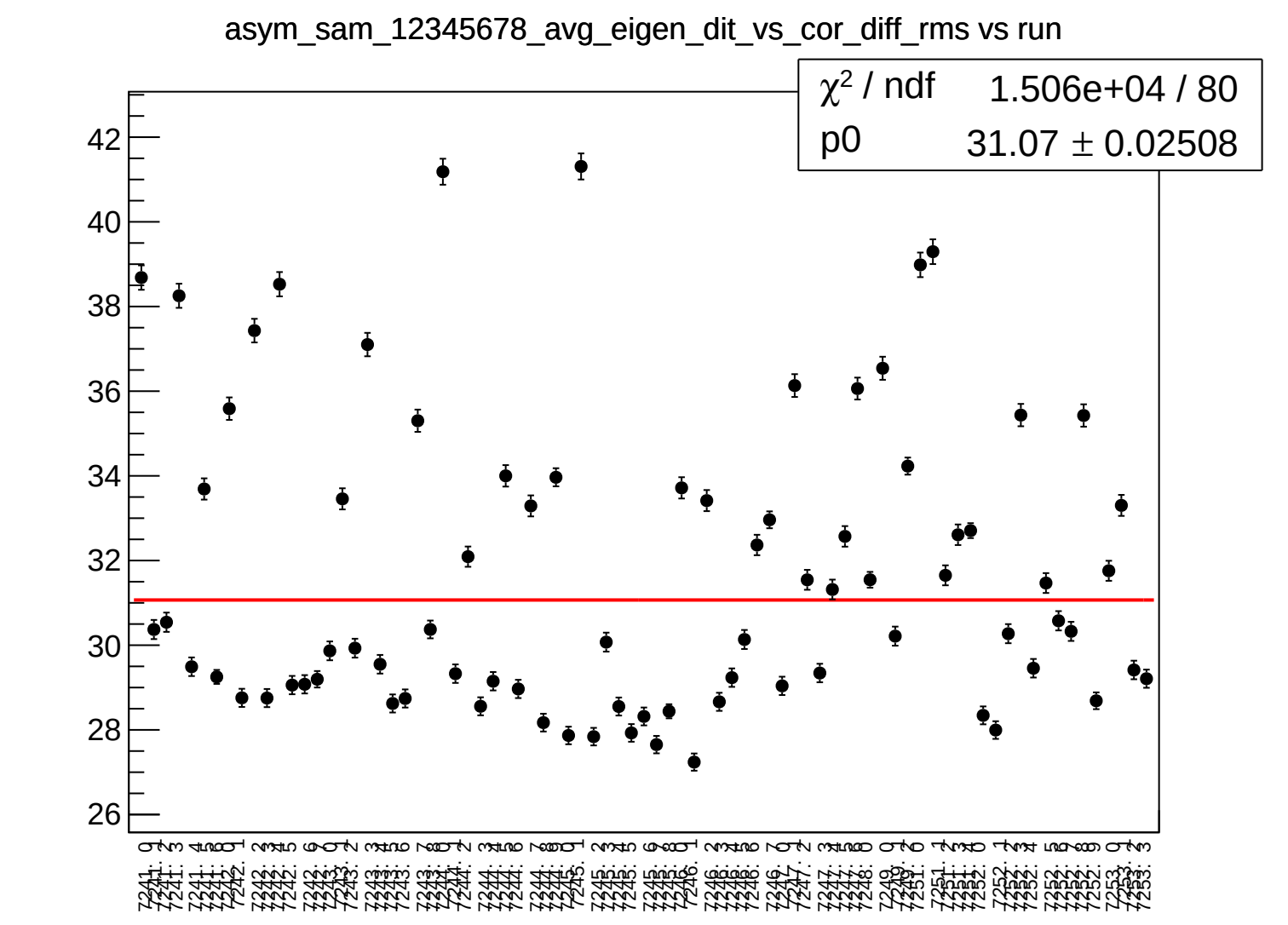

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.506e+04 / 80
p0 31.07 ± 0.02508
42
40
38
36
34
32
30
28
26

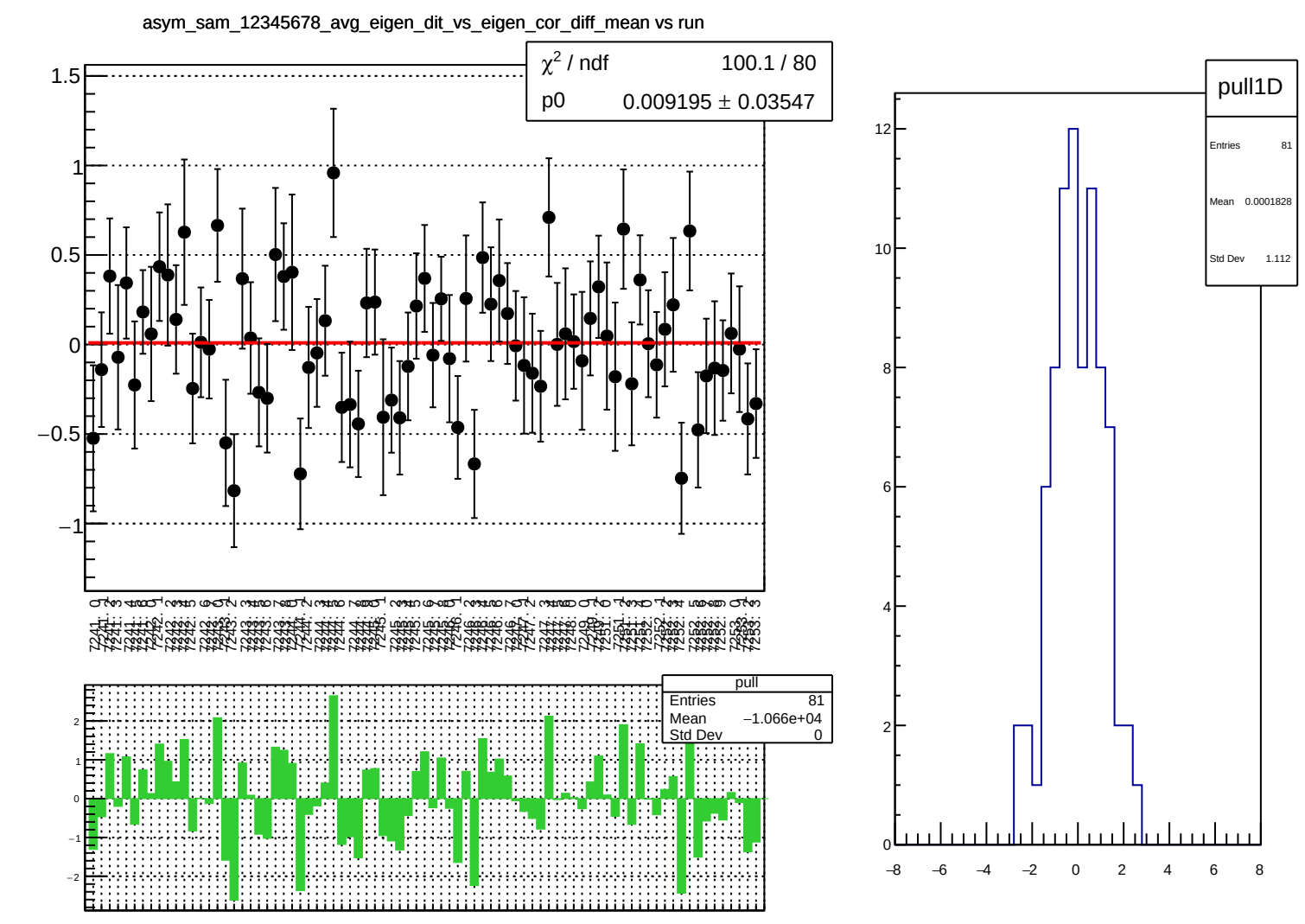

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.58 / 80
p0 −4.77e−07 ± 1.692e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 81
Mean −112.5
Std Dev 0
2
1
0
−1
−2

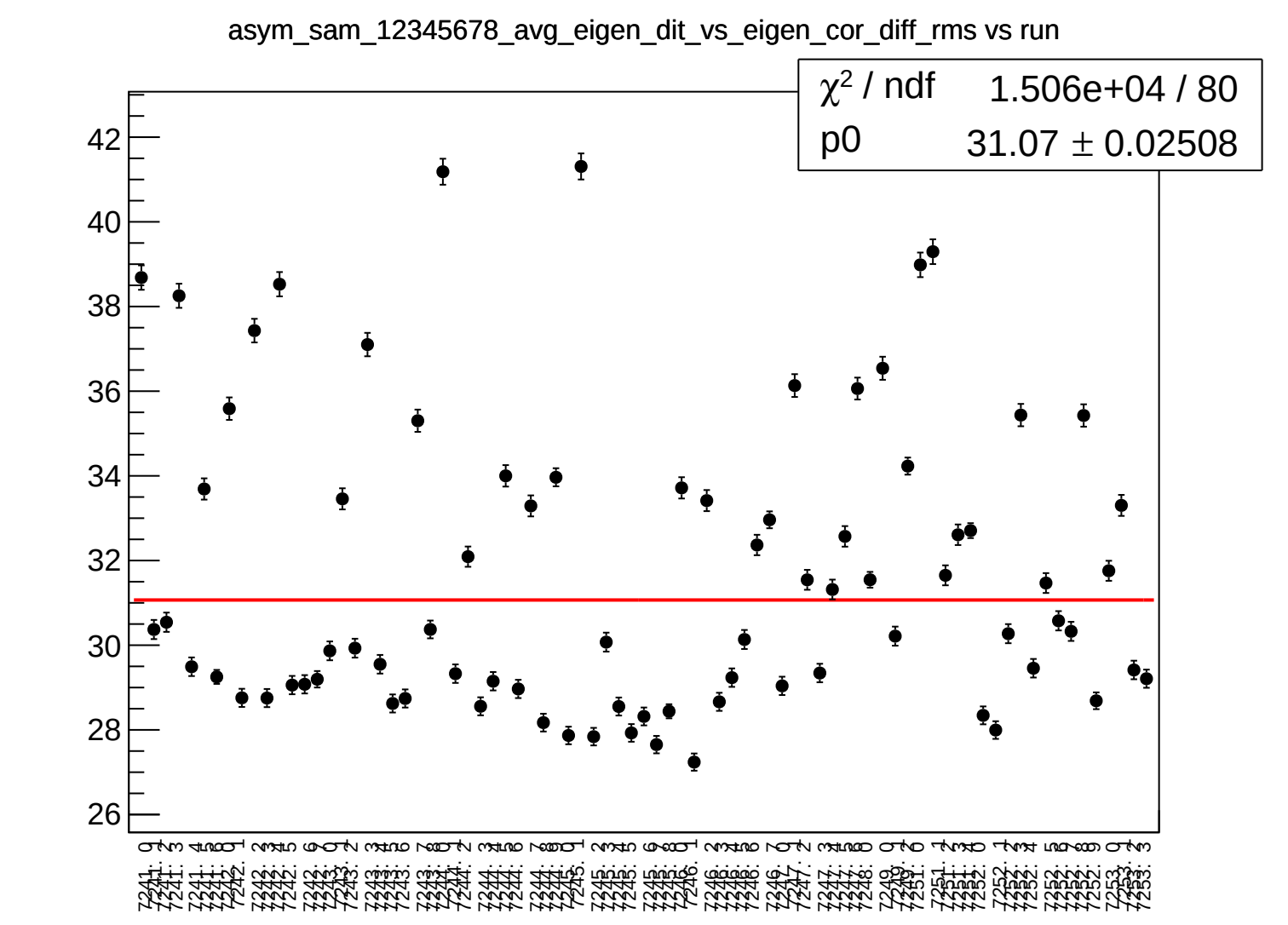

pull1D
Entries 81
Mean −0.03819
Std Dev 1.063
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

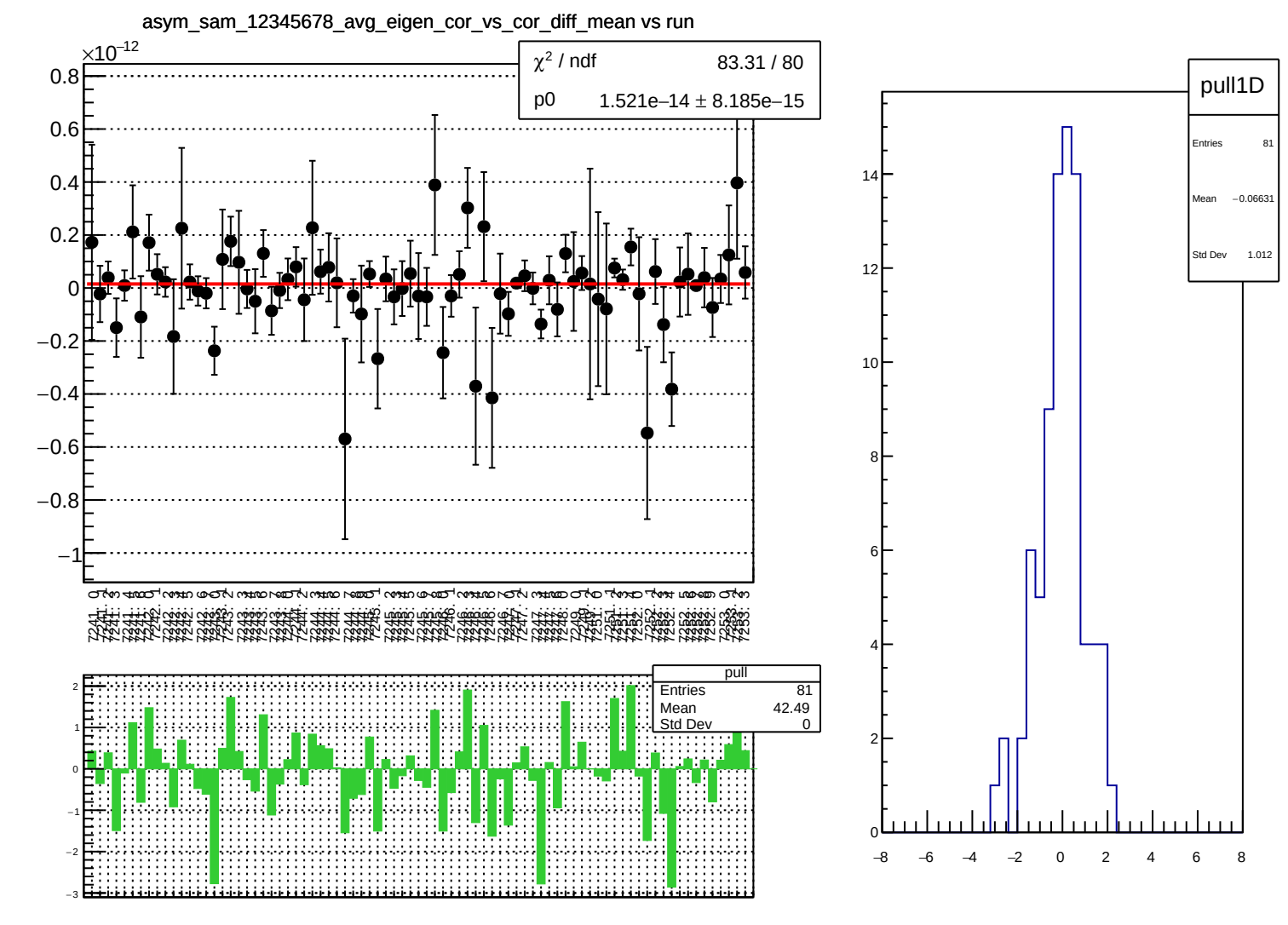

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.353e+04 / 80
p0 0.001483 ± 1.196e−06
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012

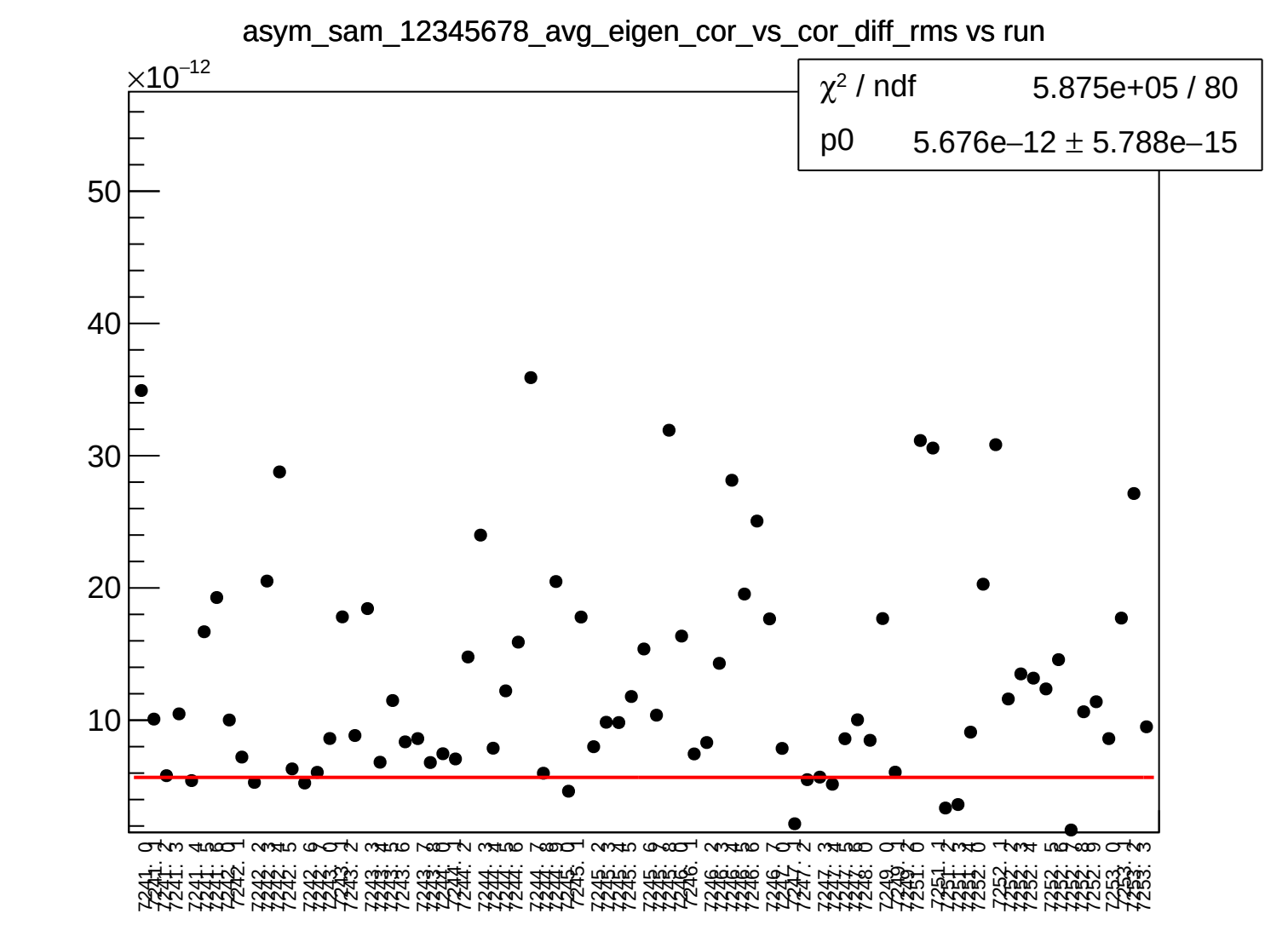

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.1 / 80
p0 0.009195 ± 0.03547
pull
Entries 81
Mean −1.066e+04
Std Dev 0
pull1D
Entries 81
Mean 0.0001828
Std Dev 1.112

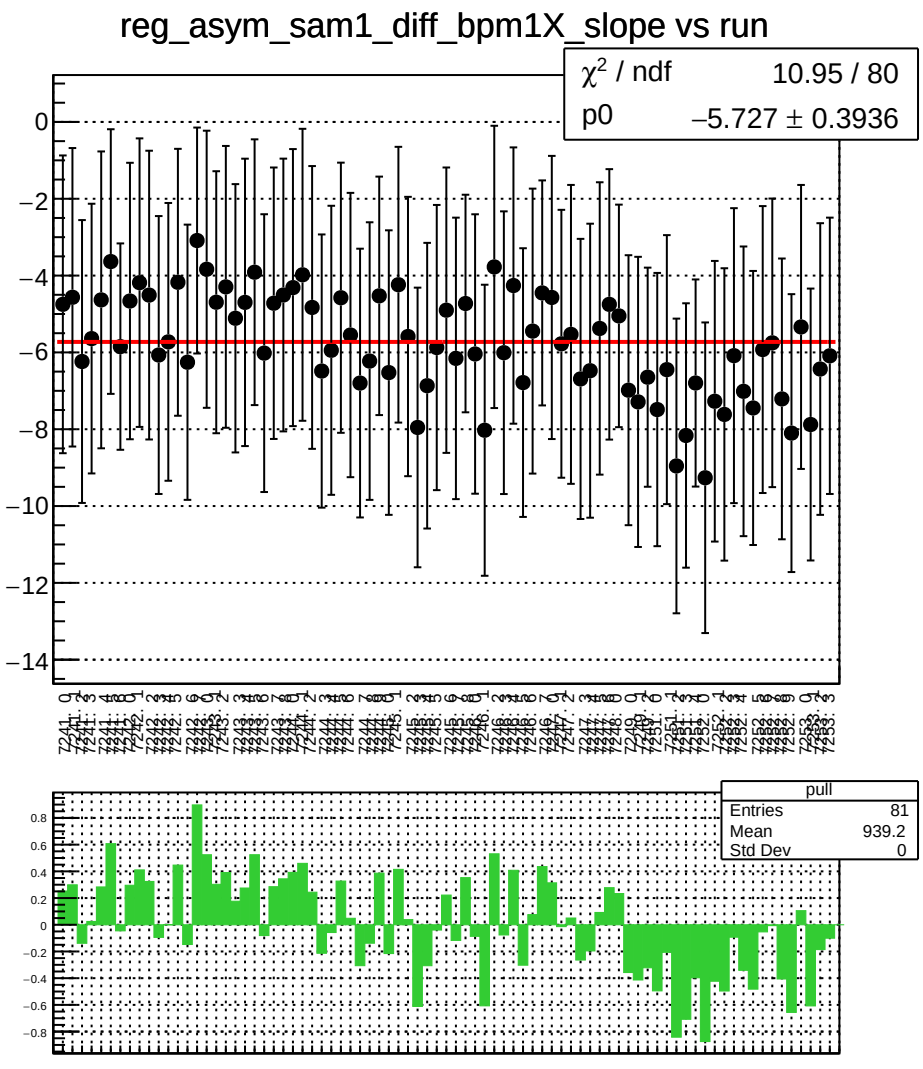

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.506e+04 / 80
p0 31.07 ± 0.02508
42
40
38
36
34
32
30
28
26

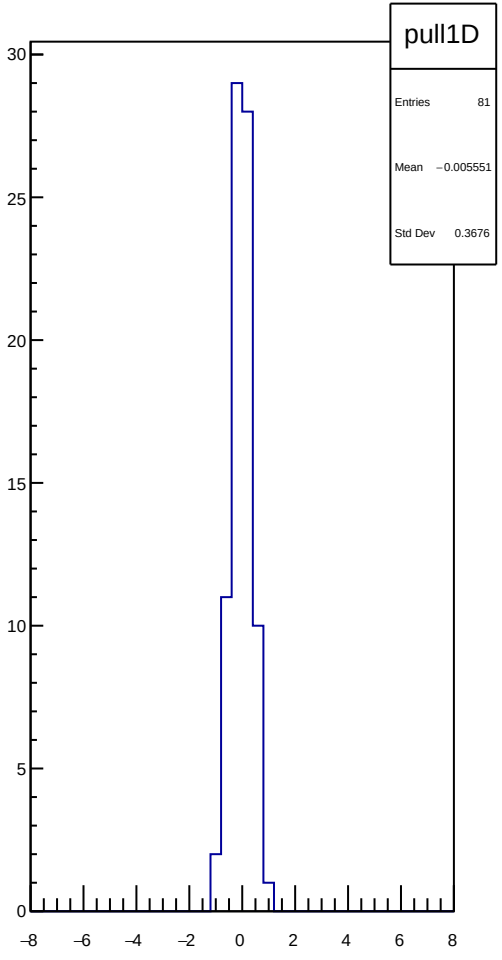

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.1 / 80
p0 0.009195 ± 0.03547
pull
Entries 81
Mean −1.066e+04
Std Dev 0
pull1D
Entries 81
Mean 0.0001828
Std Dev 1.112

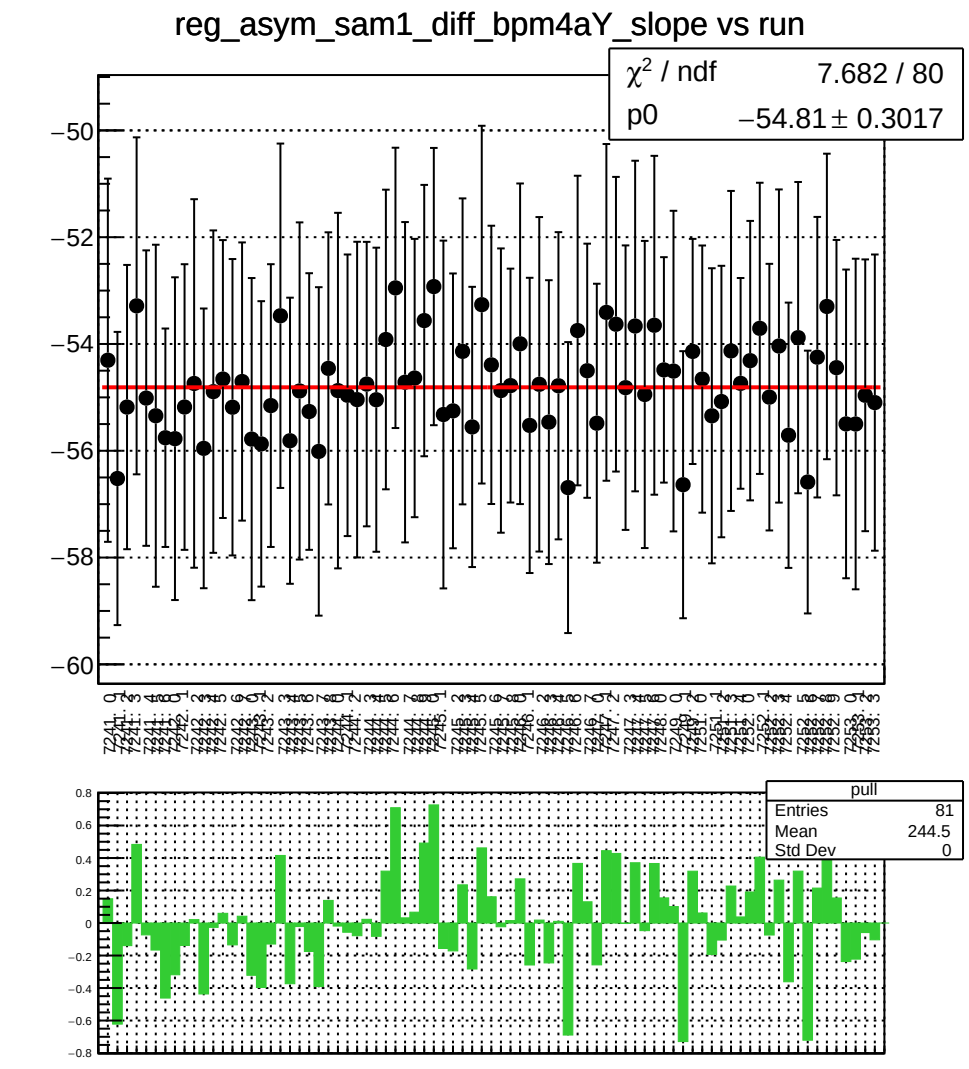

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.506e+04 / 80
p0 31.07 ± 0.02508
42
40
38
36
34
32
30
28
26

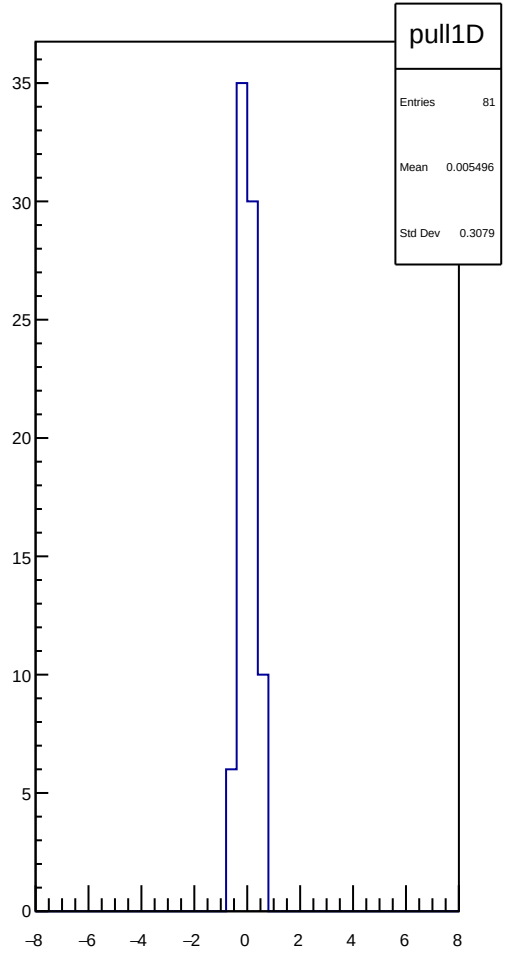

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.31 / 80
p0 1.521e−14 ± 8.185e−15
pull
Entries 81
Mean 42.49
Std Dev 0
pull1D
Entries 81
Mean −0.06631
Std Dev 1.012

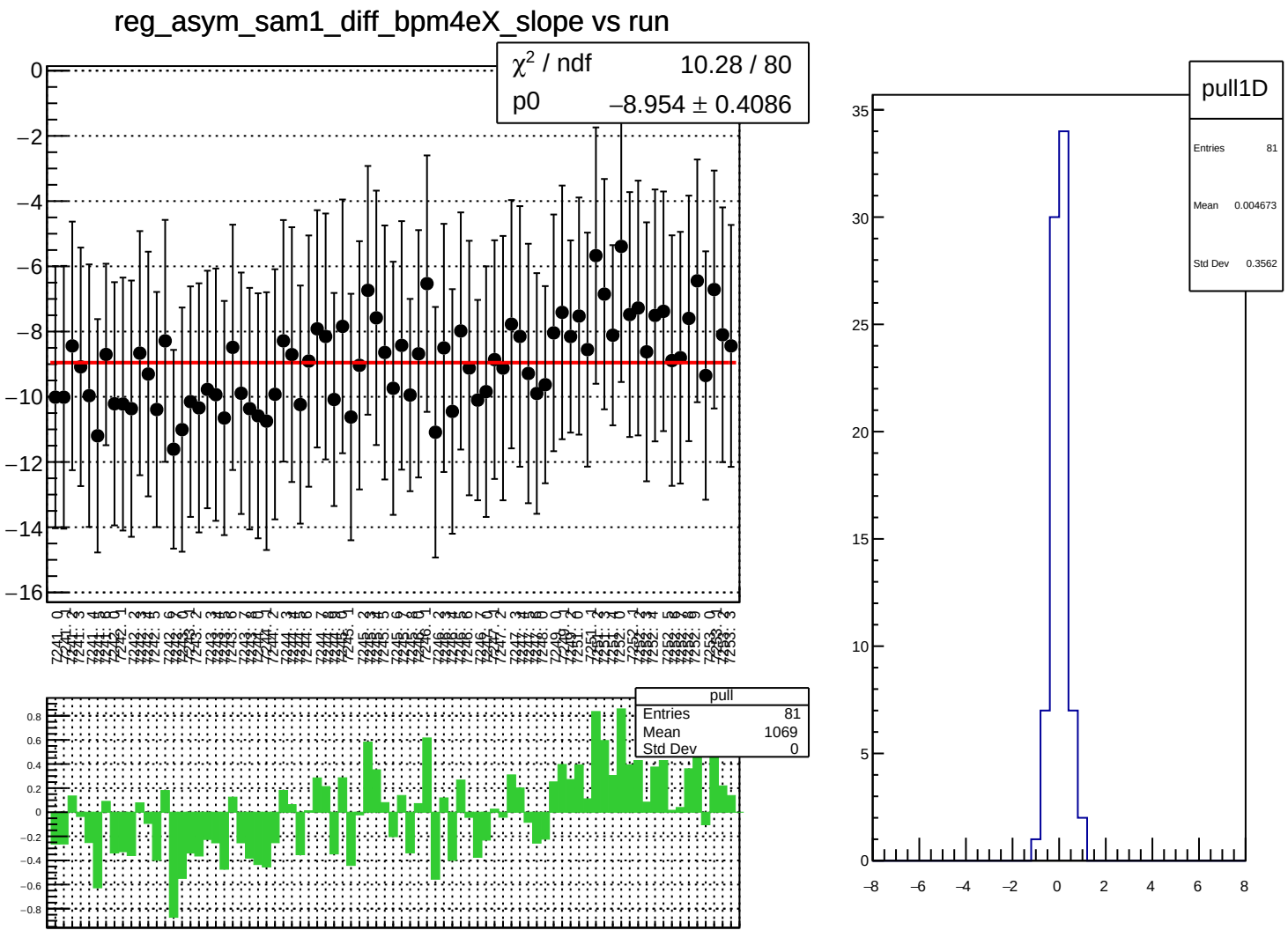

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.875e+05 / 80
p0 5.676e−12 ± 5.788e−15
50
40
30
20
10

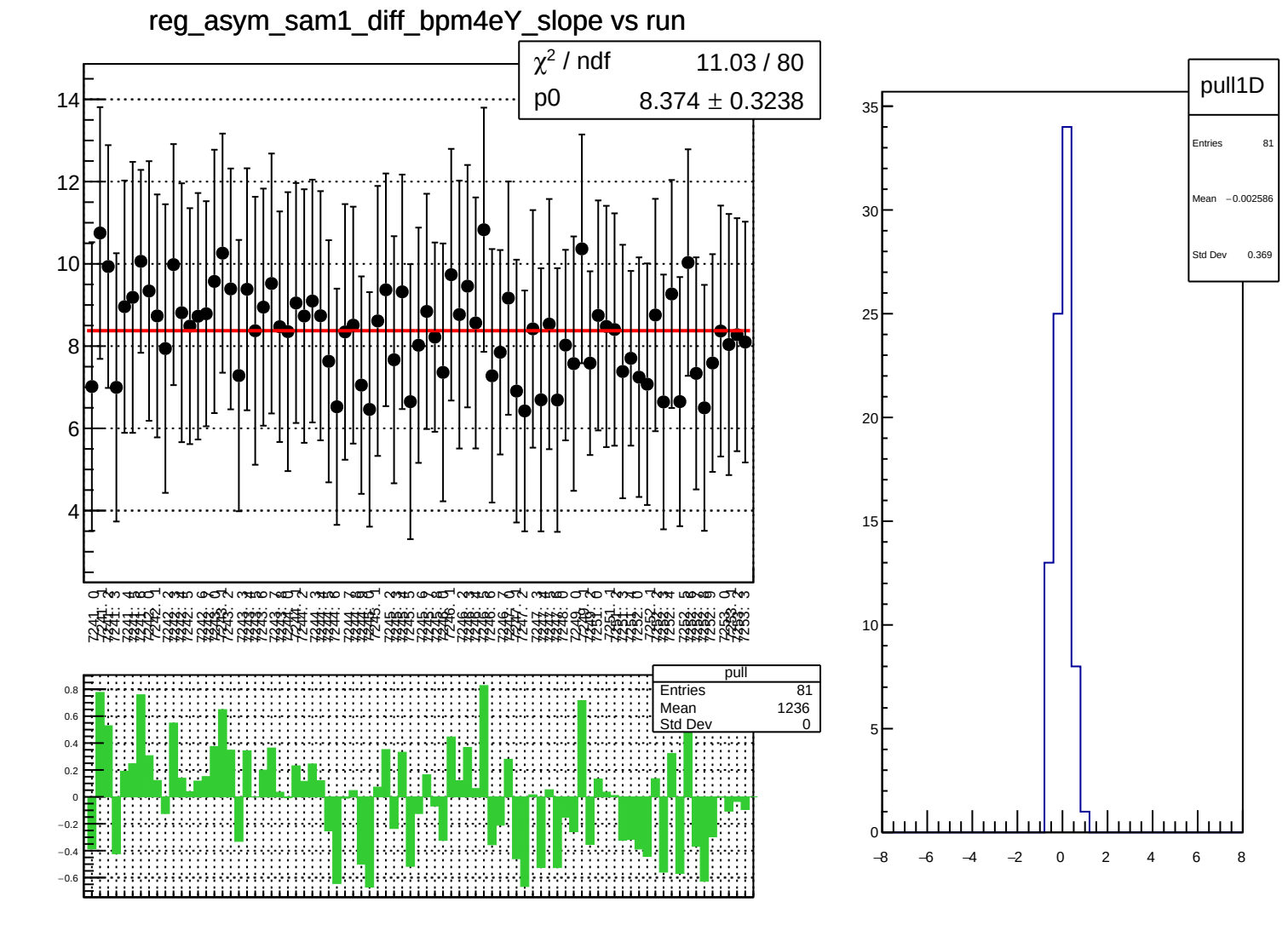

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 10.95 / 80
p0 −5.727 ± 0.3936
pull
Entries 81
Mean 939.2
Std Dev 0

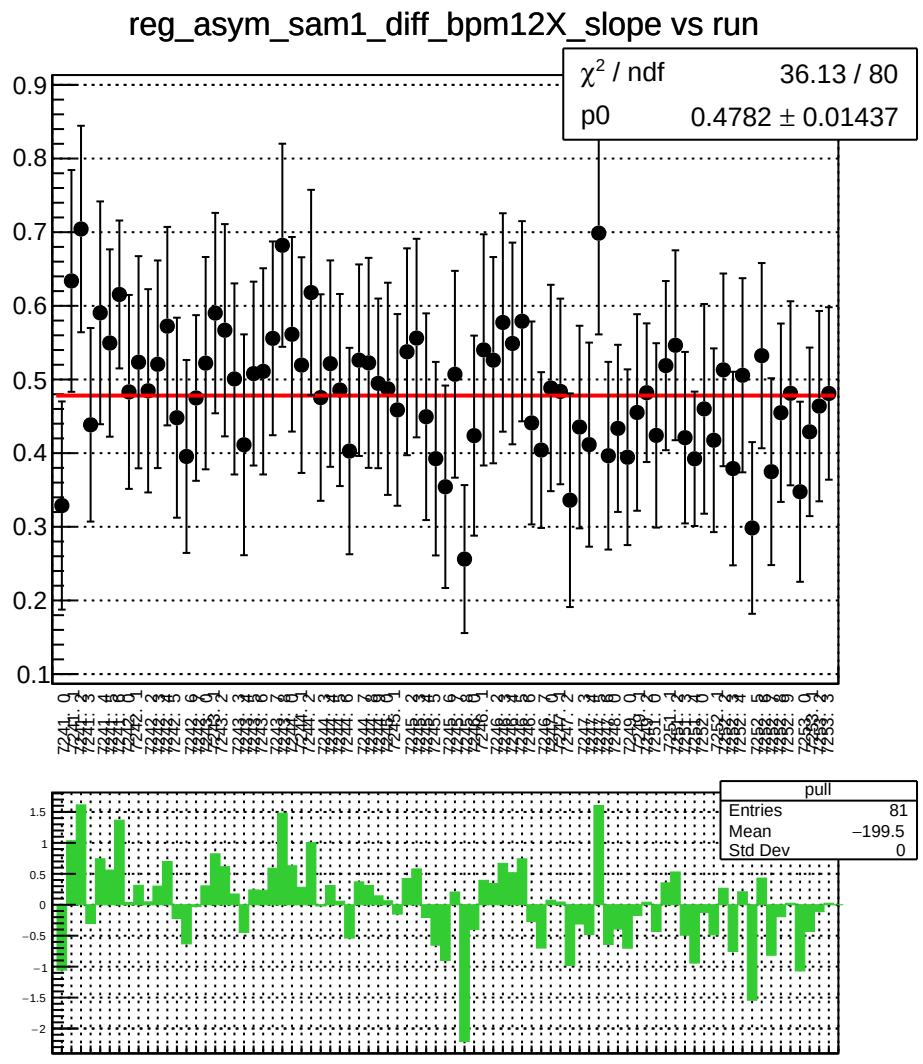

pull1D
Entries 81
Mean −0.005551
Std Dev 0.3676

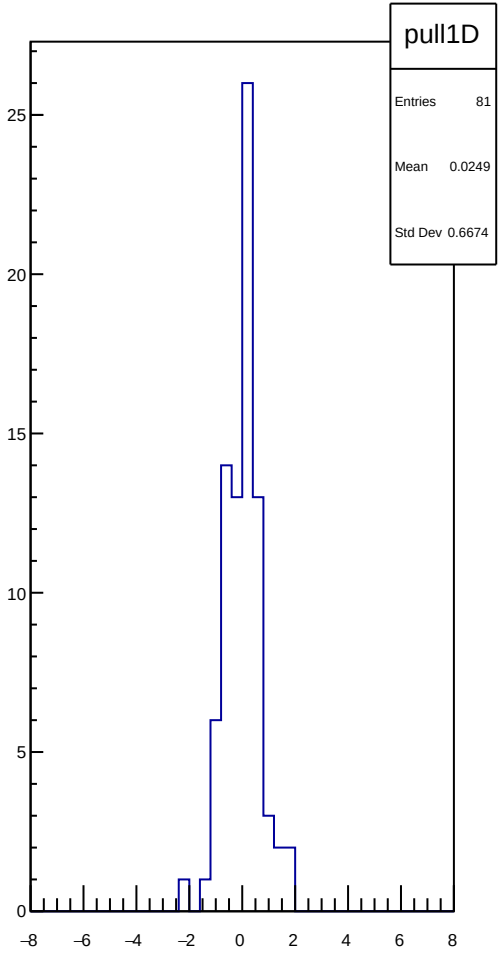

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 7.682 / 80
p0 −54.81 ± 0.3017
pull
Entries 81
Mean 244.5
Std Dev 0

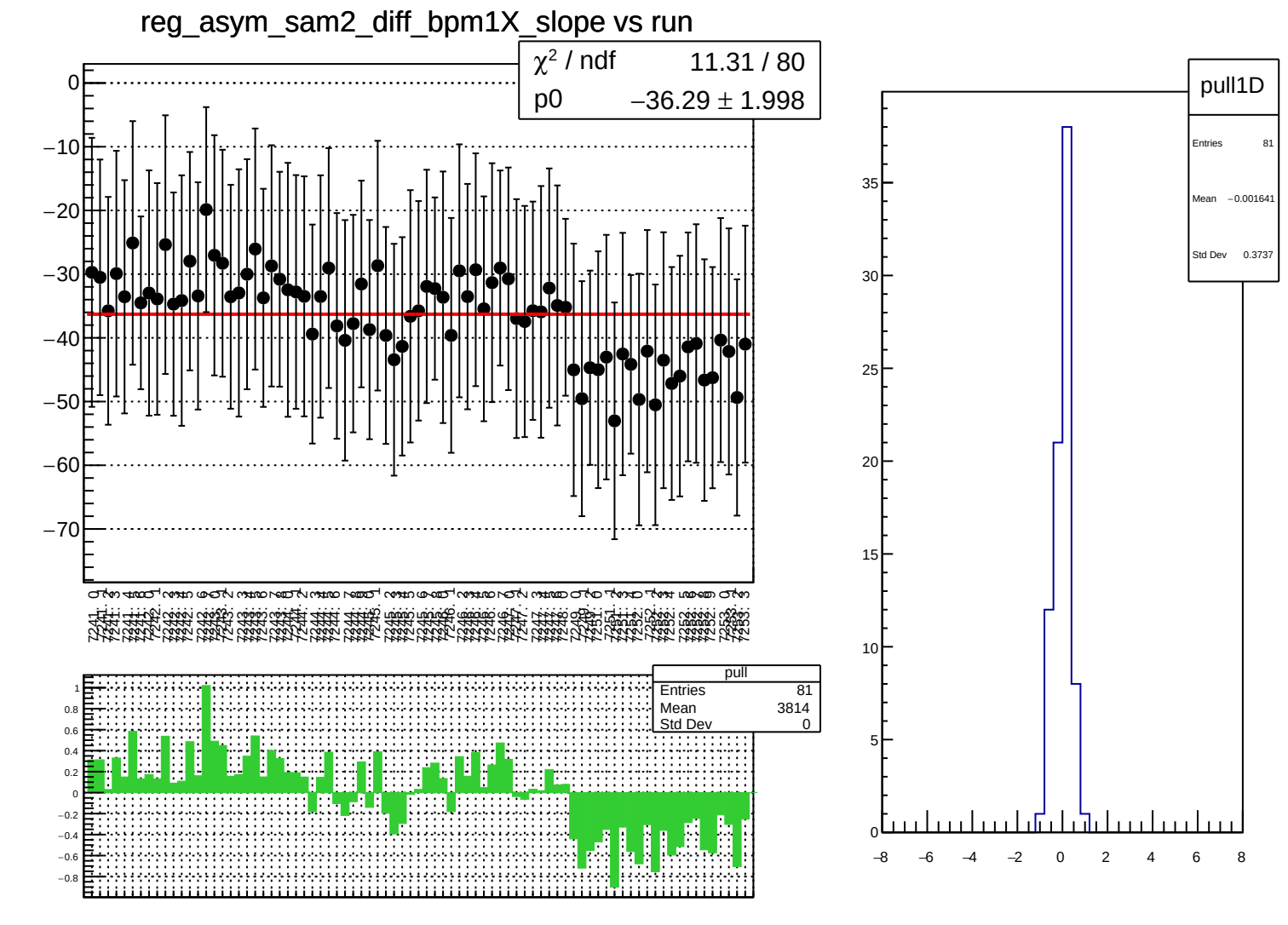

pull1D
Entries 81
Mean 0.005496
Std Dev 0.3079

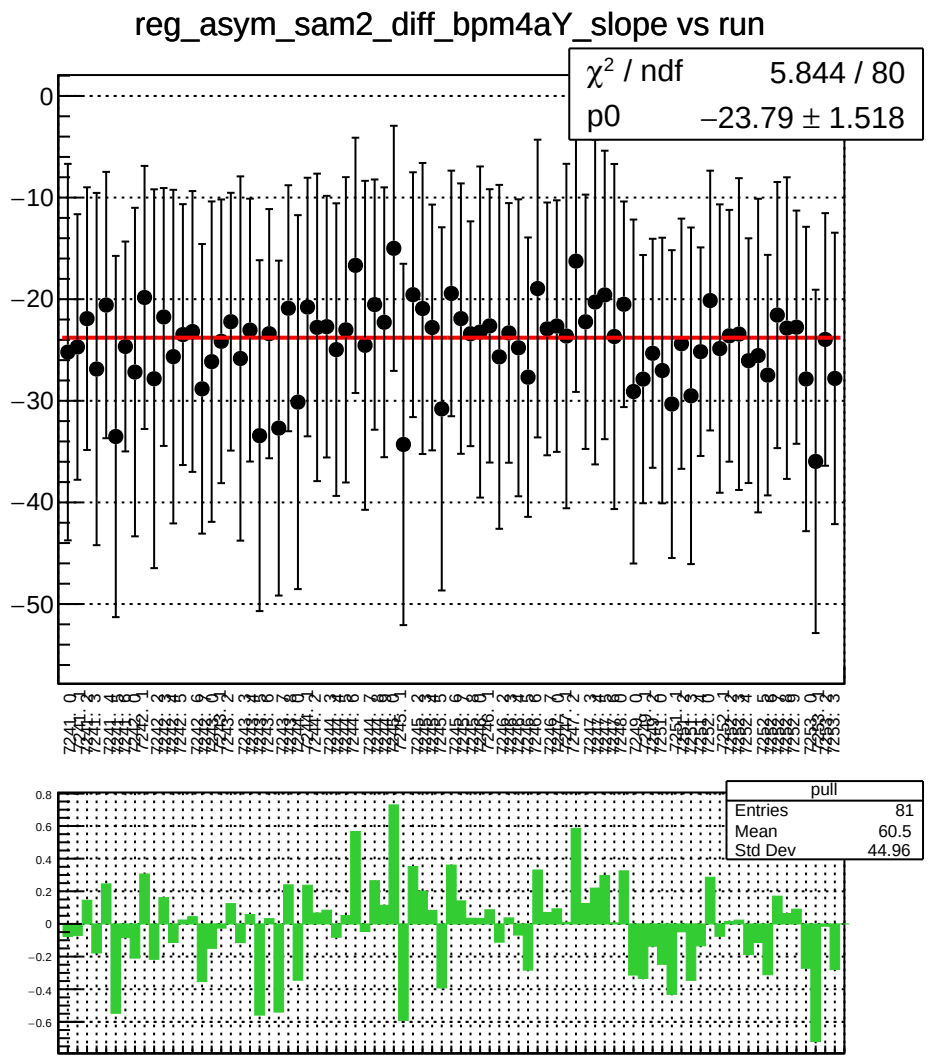

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 10.28 / 80
p0 −8.954 ± 0.4086
pull
Entries 81
Mean 1069
Std Dev 0
pull1D
Entries 81
Mean 0.004673
Std Dev 0.3562

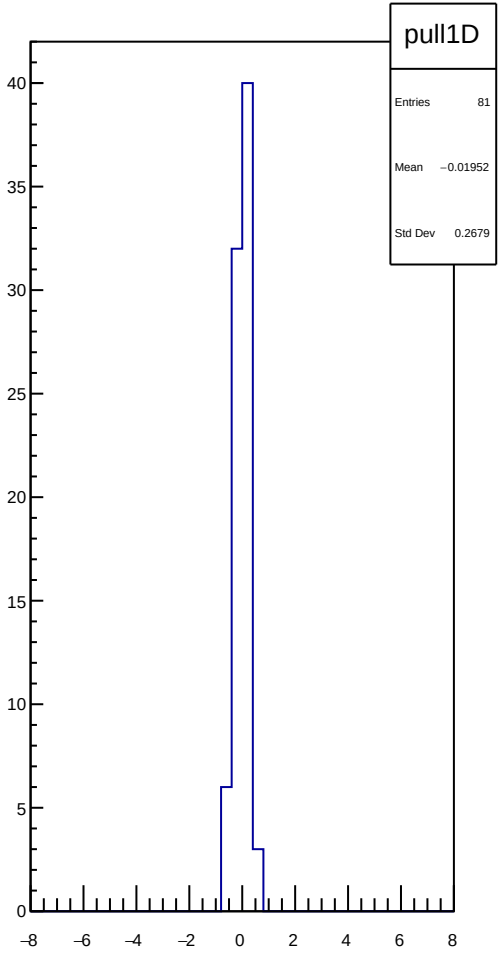

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 11.03 / 80
p0 8.374 ± 0.3238
pull
Entries 81
Mean 1236
Std Dev 0
pull1D
Entries 81
Mean −0.002586
Std Dev 0.369

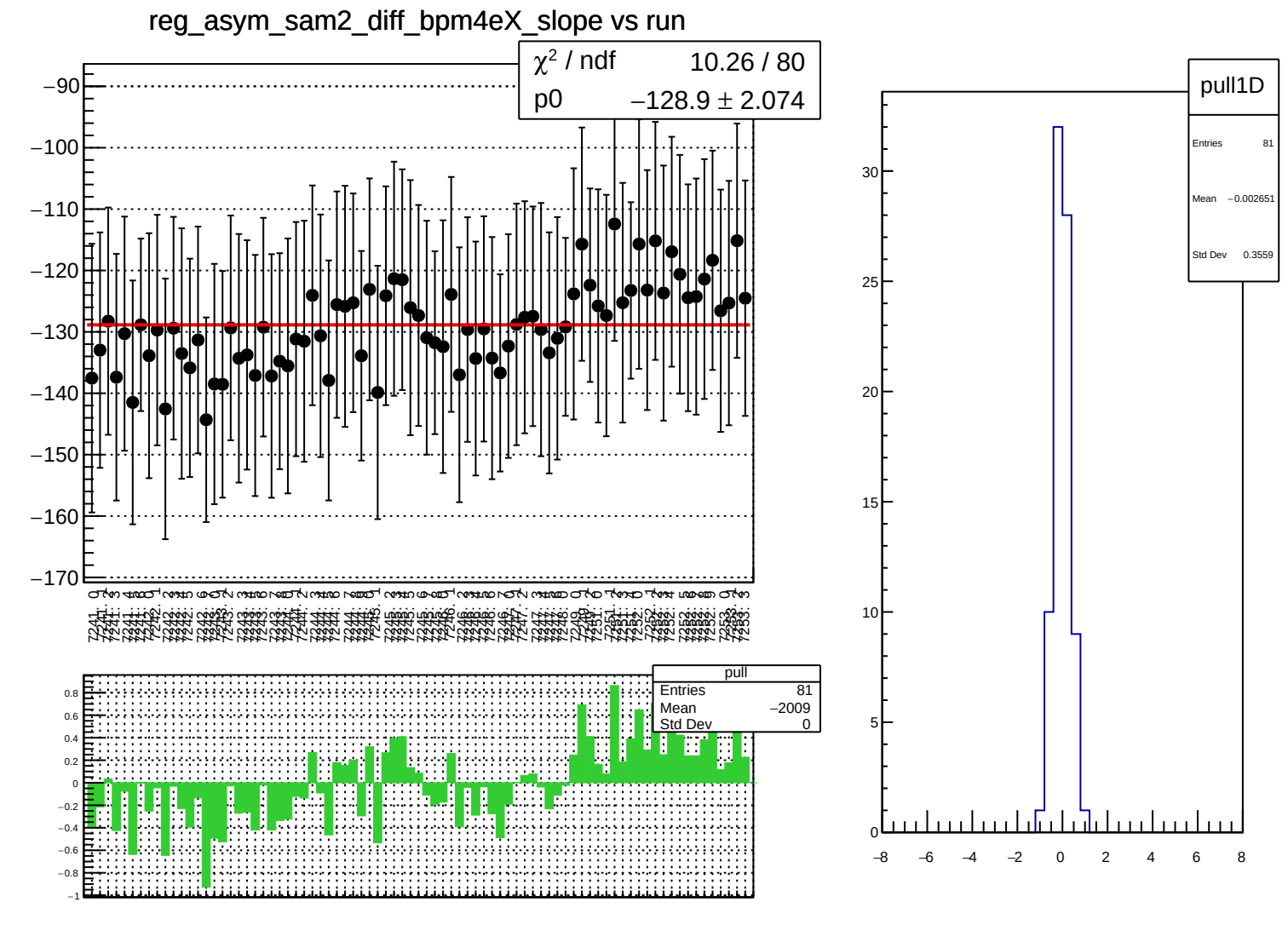

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 36.13 / 80
p0 0.4782 ± 0.01437
pull
Entries 81
Mean −199.5
Std Dev 0

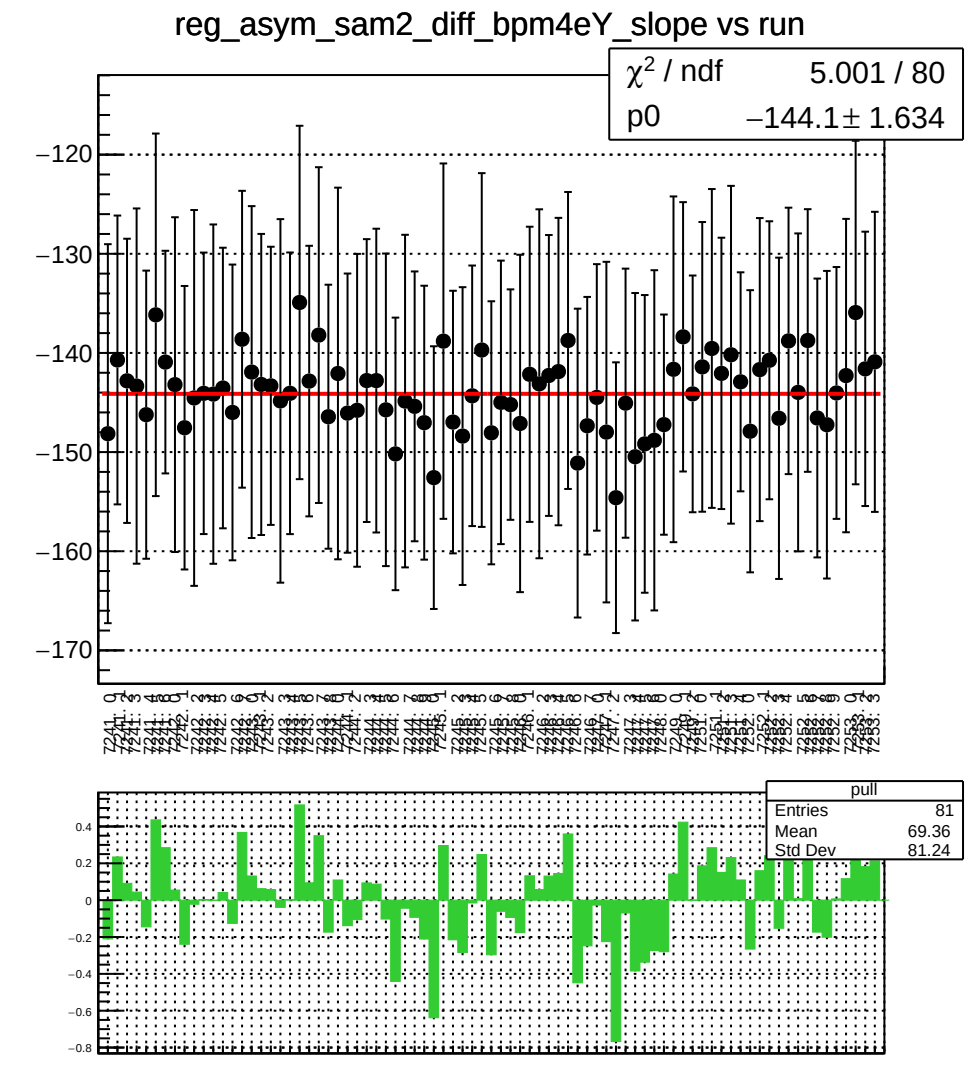

pull1D
Entries 81
Mean 0.0249
Std Dev 0.6674

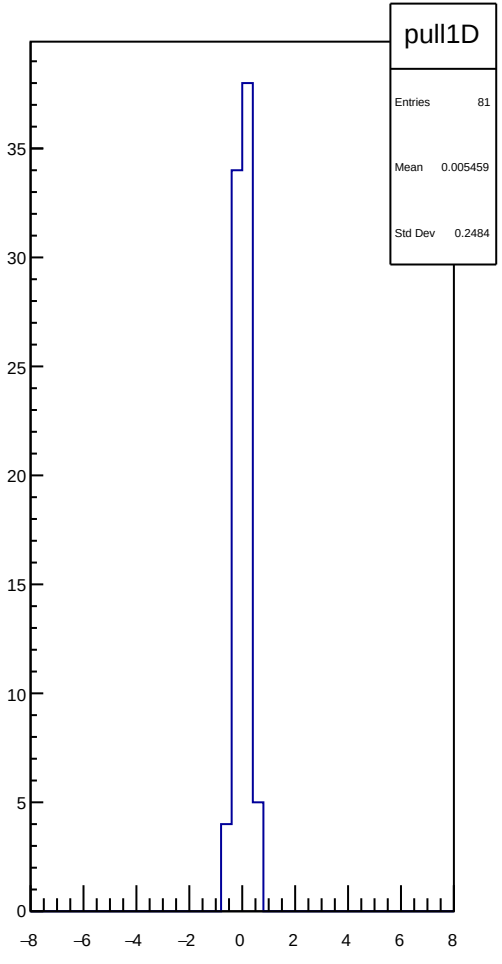

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 11.31 / 80
p0 −36.29 ± 1.998
pull
Entries 81
Mean 3814
Std Dev 0
pull1D
Entries 81
Mean −0.001641
Std Dev 0.3737

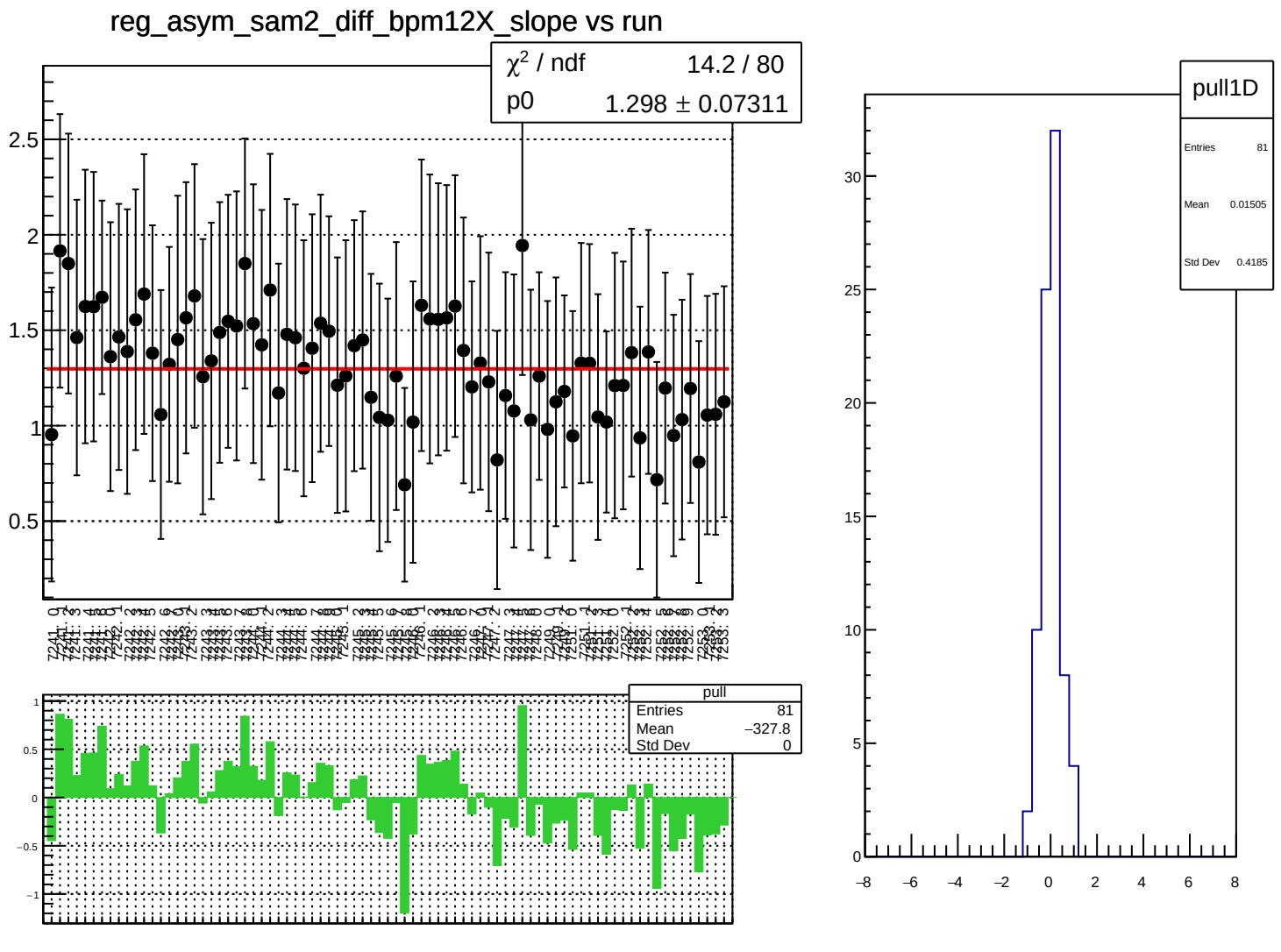

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 5.844 / 80
p0 −23.79 ± 1.518
pull
Entries 81
Mean 60.5
Std Dev 44.96

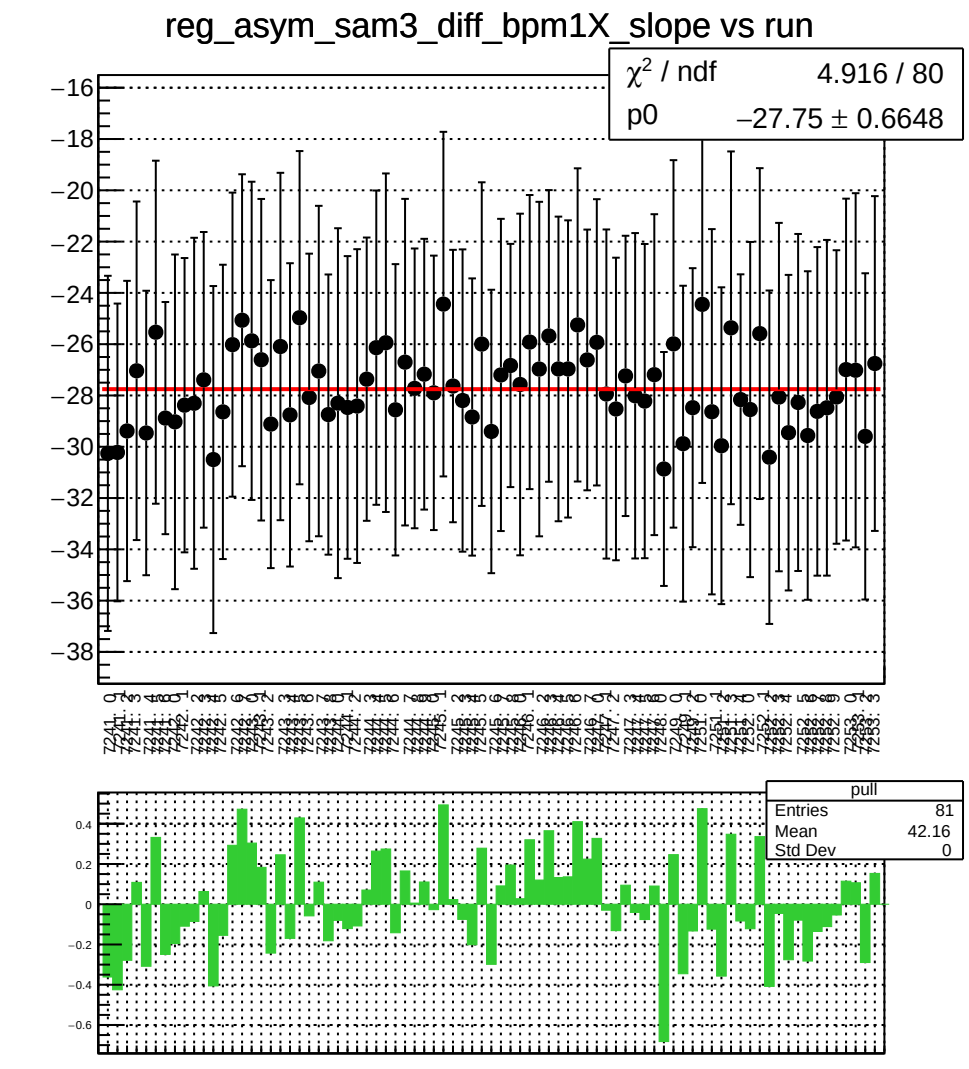

pull1D
Entries 81
Mean −0.01952
Std Dev 0.2679

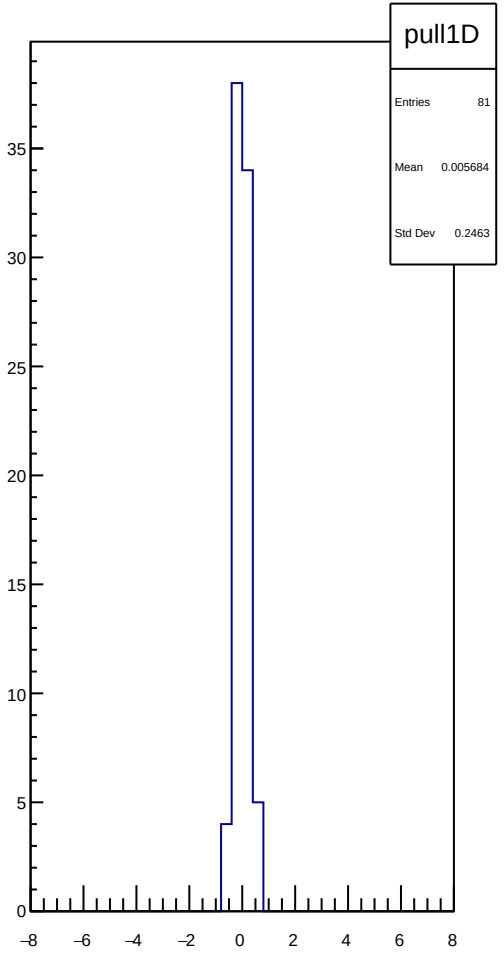

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 10.26 / 80
p0 −128.9 ± 2.074
pull
Entries 81
Mean −2009
Std Dev 0
pull1D
Entries 81
Mean −0.002651
Std Dev 0.3559

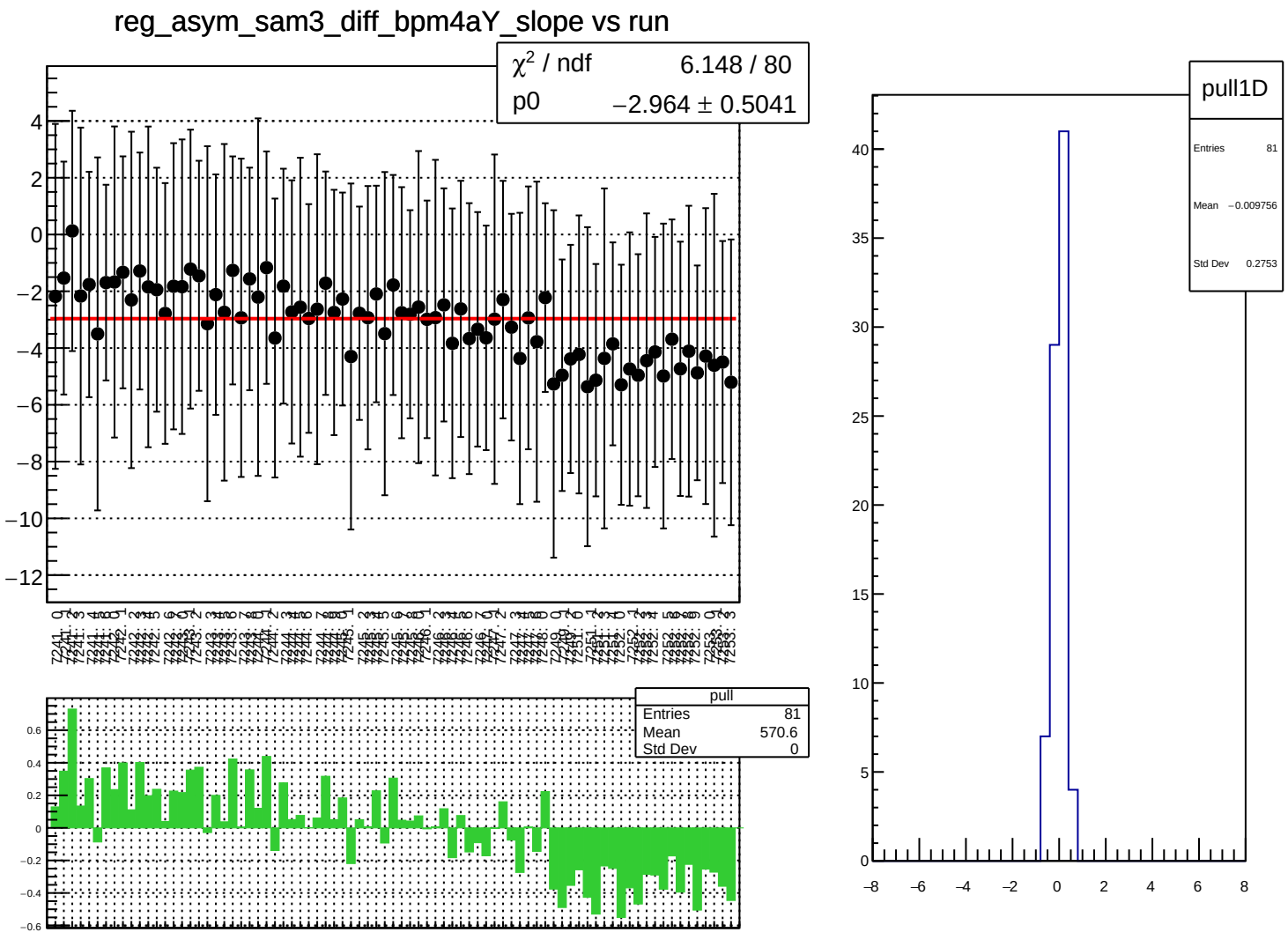

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 5.001 / 80
p0 −144.1± 1.634
pull
Entries 81
Mean 69.36
Std Dev 81.24

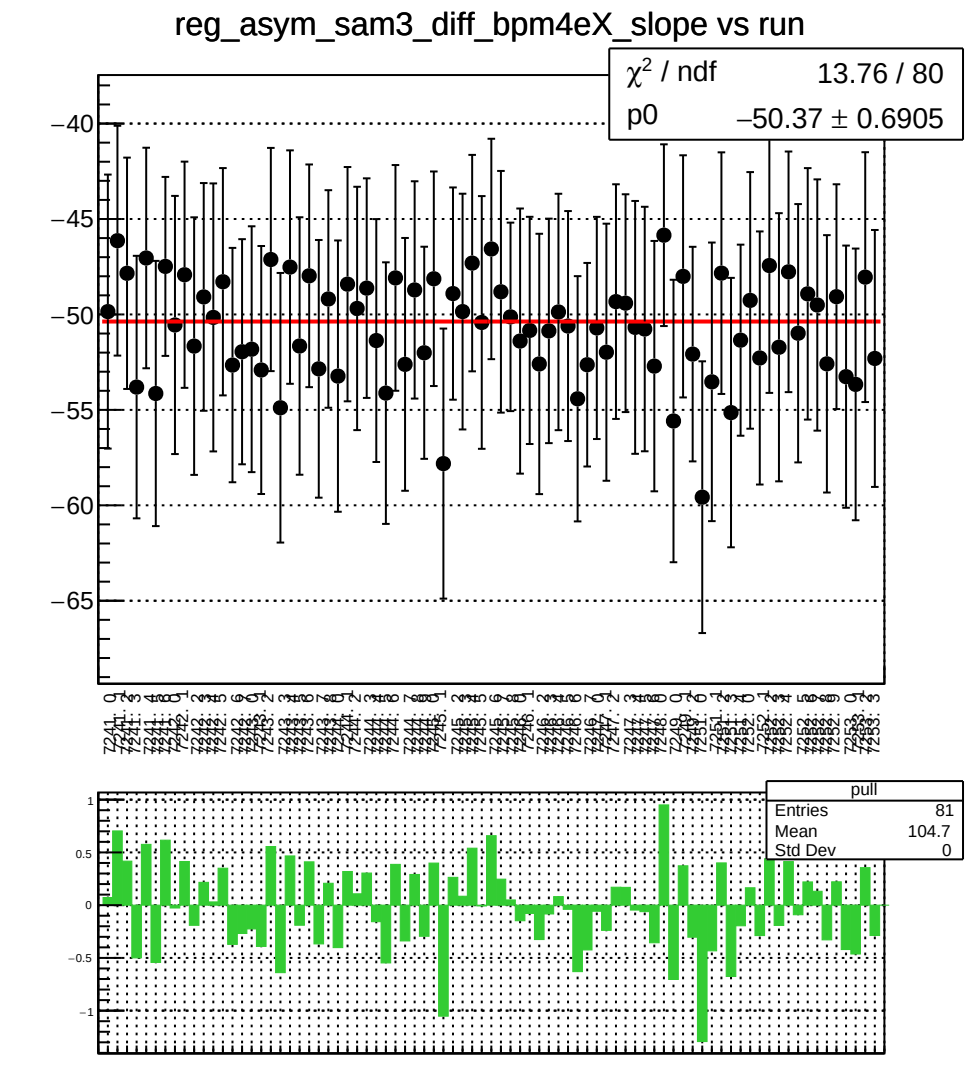

pull1D
Entries 81
Mean 0.005459
Std Dev 0.2484

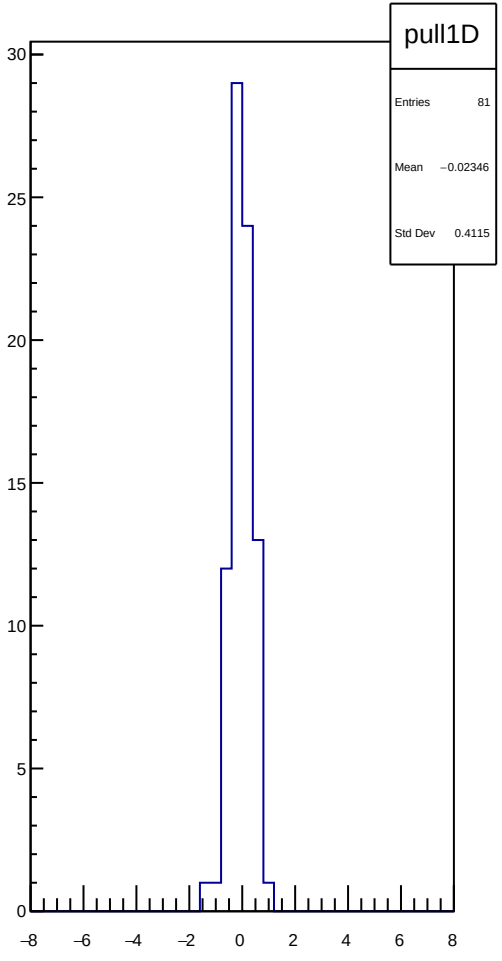

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 14.2 / 80
p0 1.298 ± 0.07311
pull
Entries 81
Mean −327.8
Std Dev 0
pull1D
Entries 81
Mean 0.01505
Std Dev 0.4185

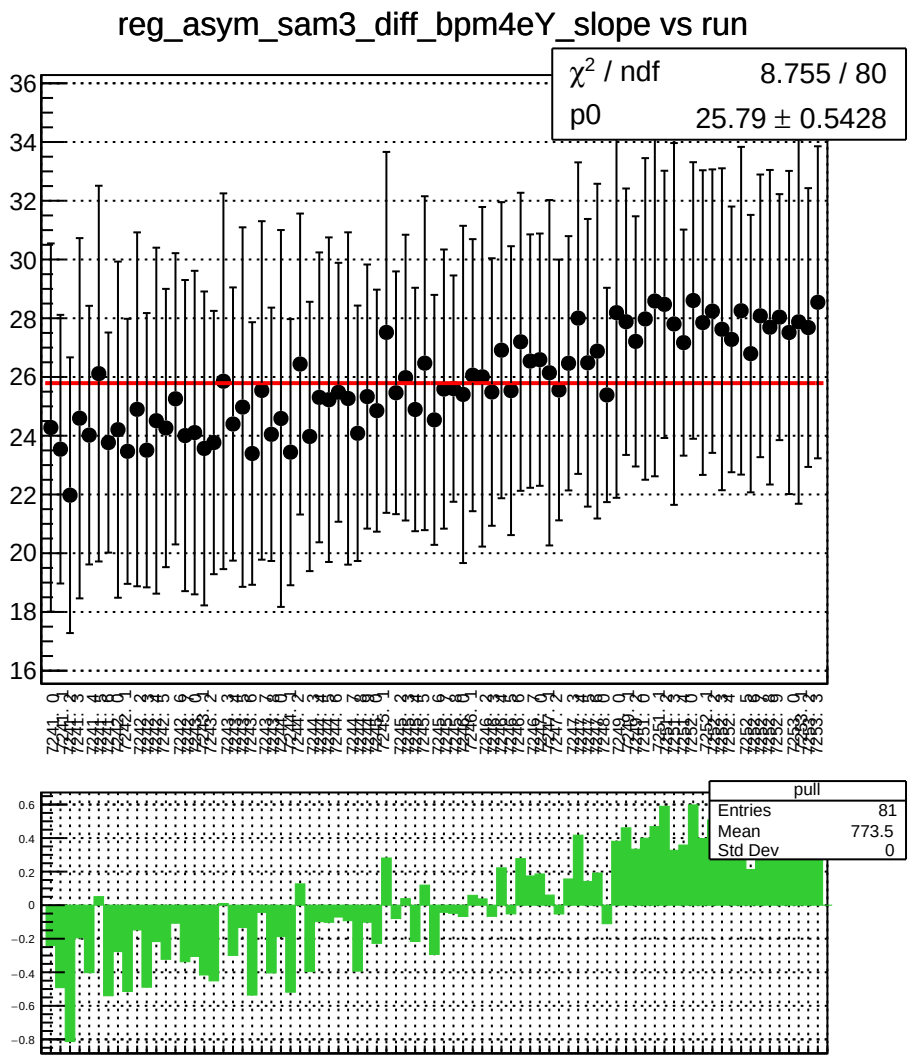

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 4.916 / 80
p0 −27.75 ± 0.6648
pull
Entries 81
Mean 42.16
Std Dev 0

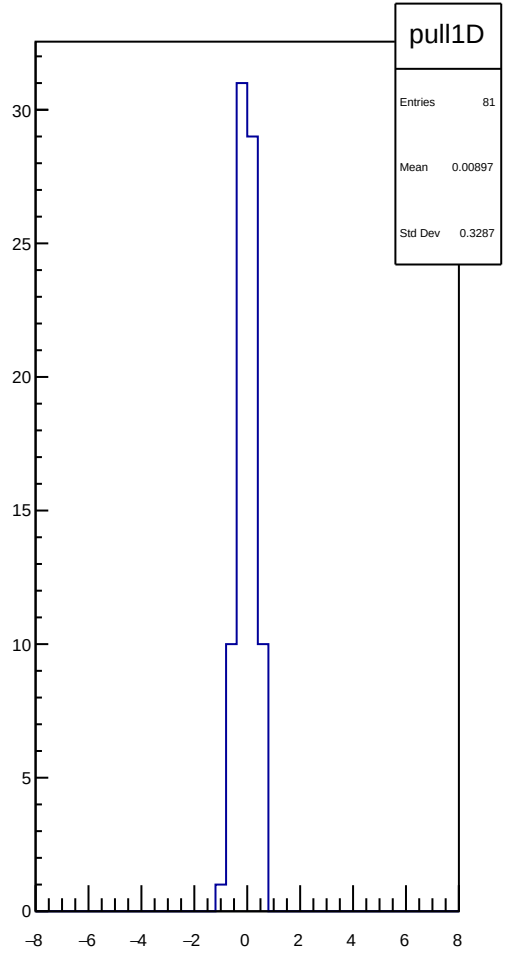

pull1D
Entries 81
Mean 0.005684
Std Dev 0.2463

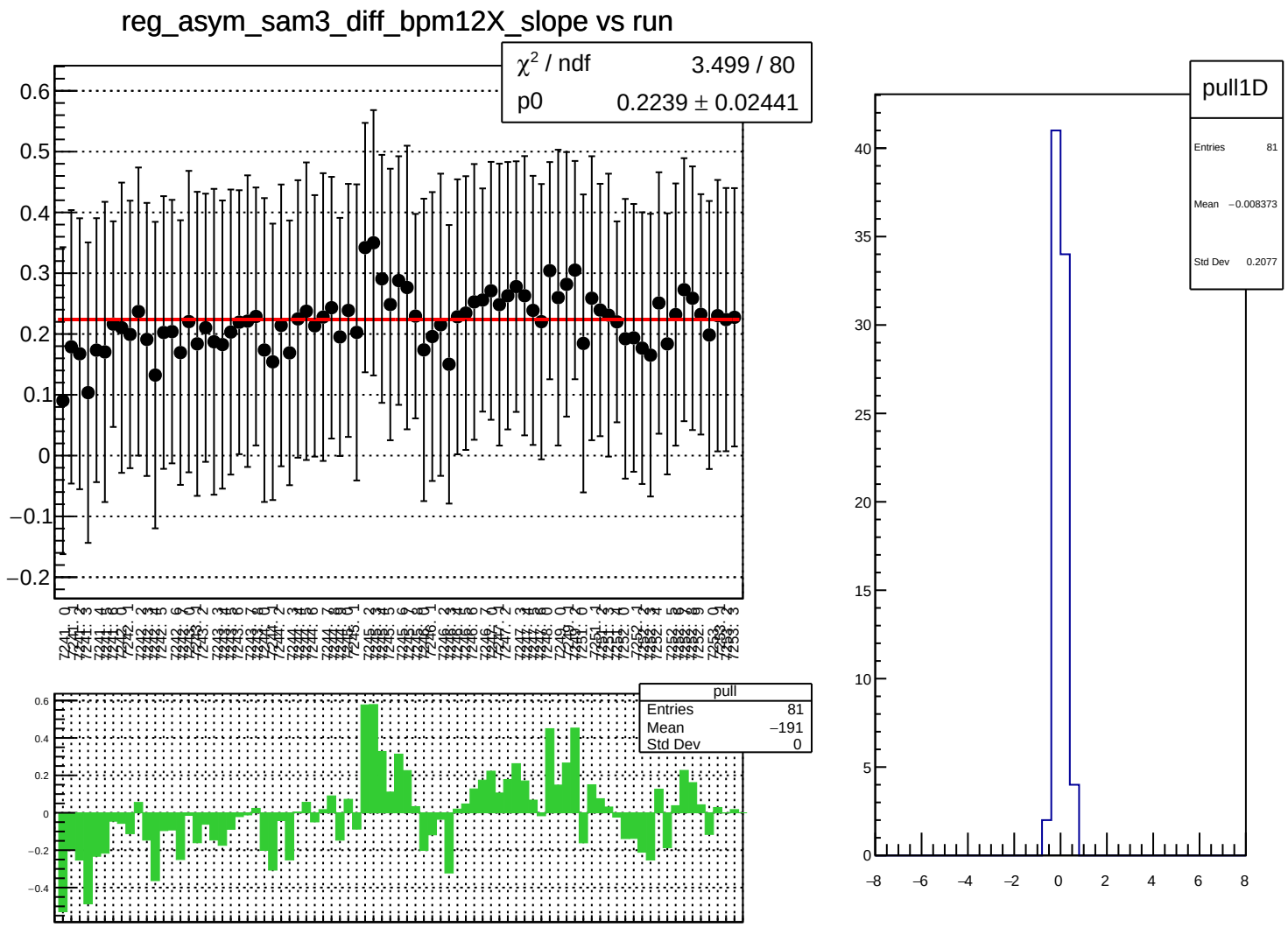

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 6.148 / 80
p0 −2.964 ± 0.5041
pull
Entries 81
Mean 570.6
Std Dev 0
pull1D
Entries 81
Mean −0.009756
Std Dev 0.2753

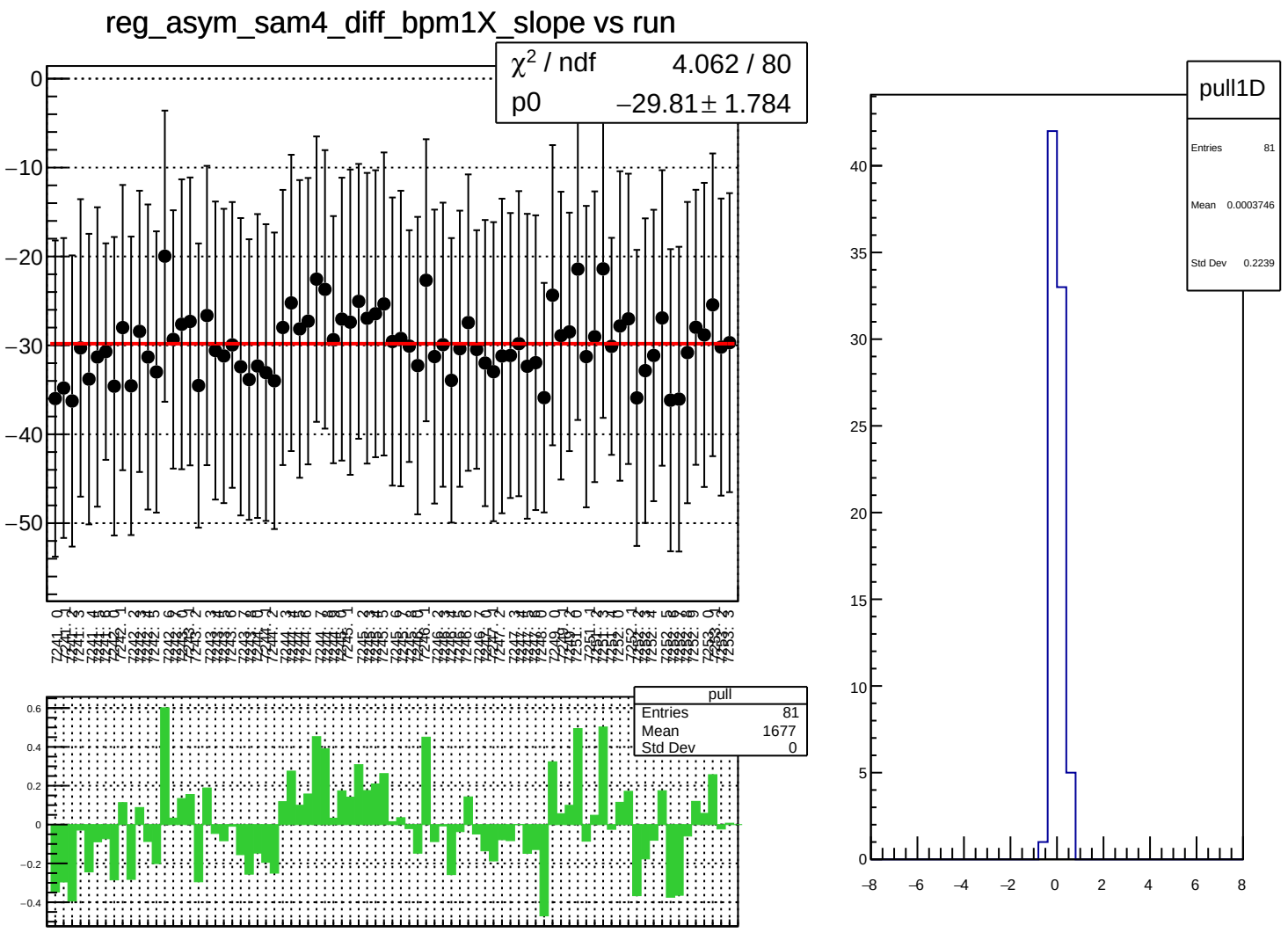

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 13.76 / 80
p0 −50.37 ± 0.6905
pull
Entries 81
Mean 104.7
Std Dev 0

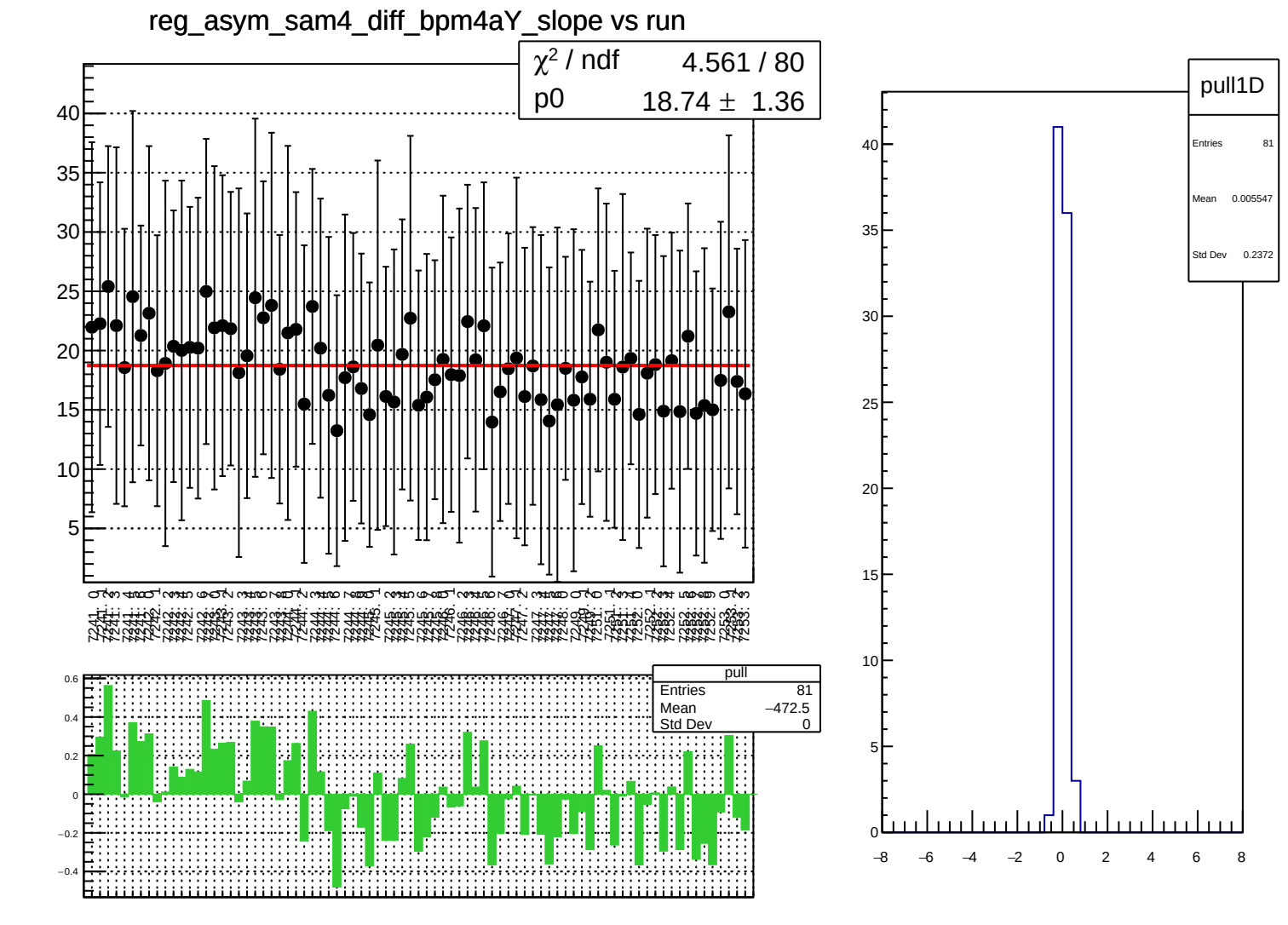

pull1D
Entries 81
Mean −0.02346
Std Dev 0.4115

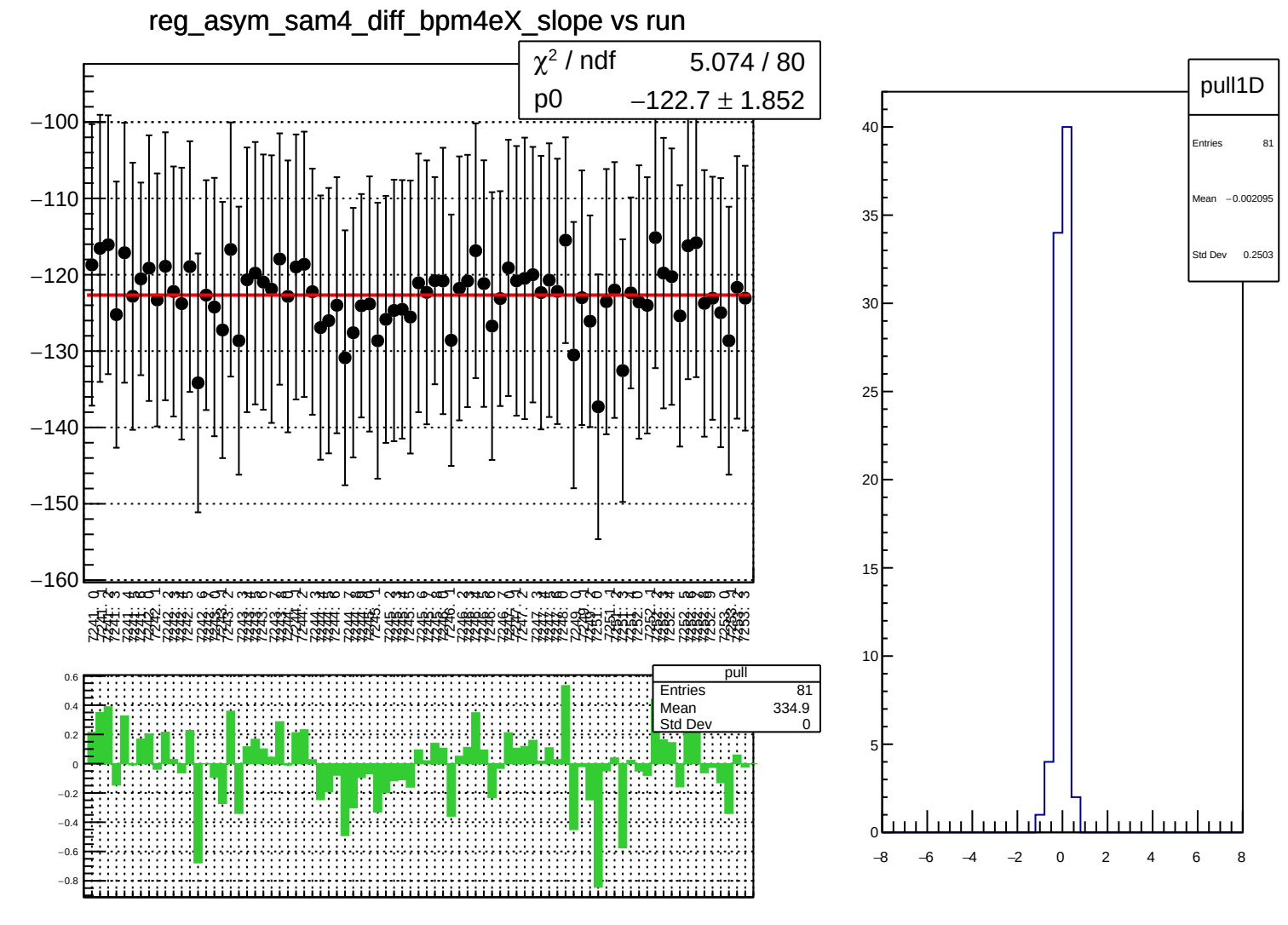

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 8.755 / 80
p0 25.79 ± 0.5428
pull
Entries 81
Mean 773.5
Std Dev 0

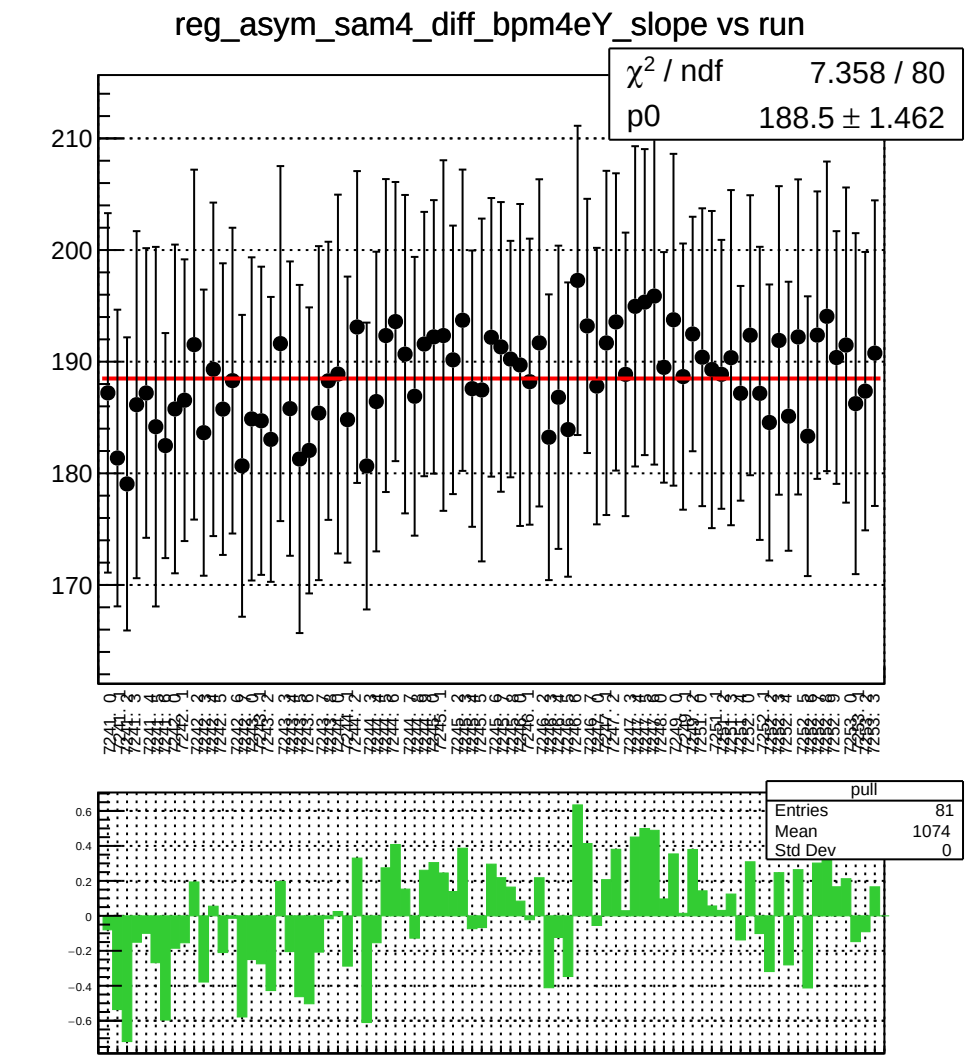

pull1D
Entries 81
Mean 0.00897
Std Dev 0.3287

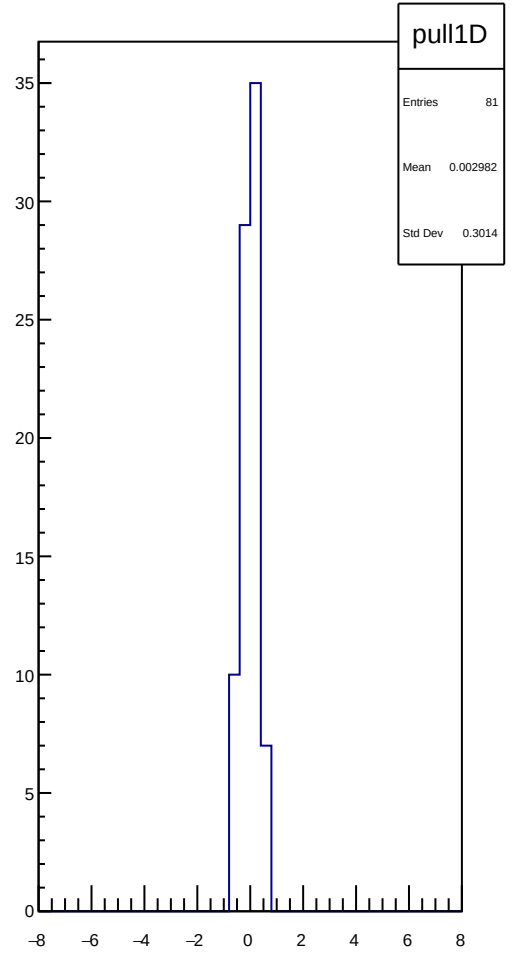

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 3.499 / 80
p0 0.2239 ± 0.02441
pull
Entries 81
Mean −191
Std Dev 0
pull1D
Entries 81
Mean −0.008373
Std Dev 0.2077

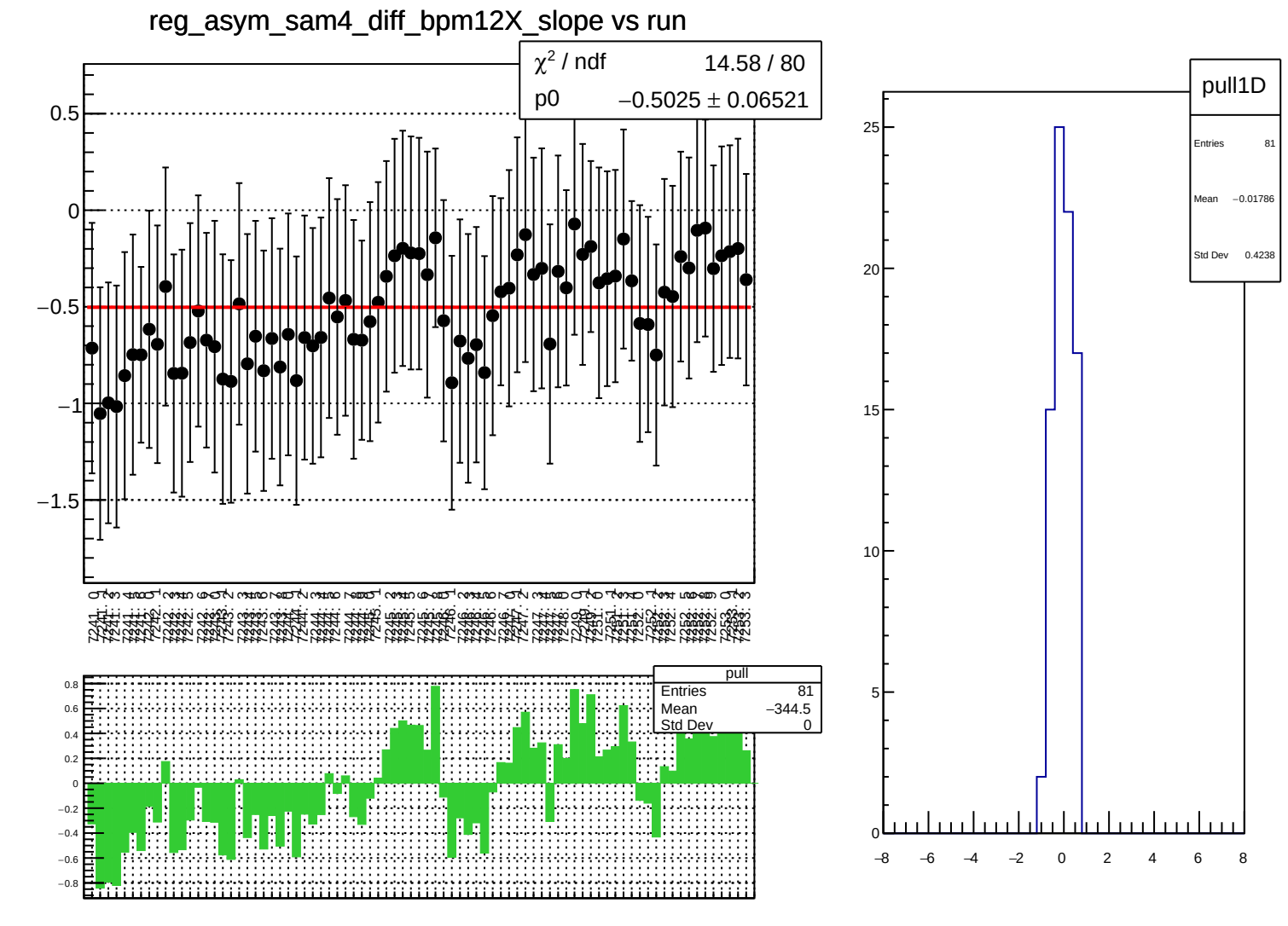

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 4.062 / 80
p0 −29.81 ± 1.784
pull
Entries 81
Mean 1677
Std Dev 0
pull1D
Entries 81
Mean 0.0003746
Std Dev 0.2239

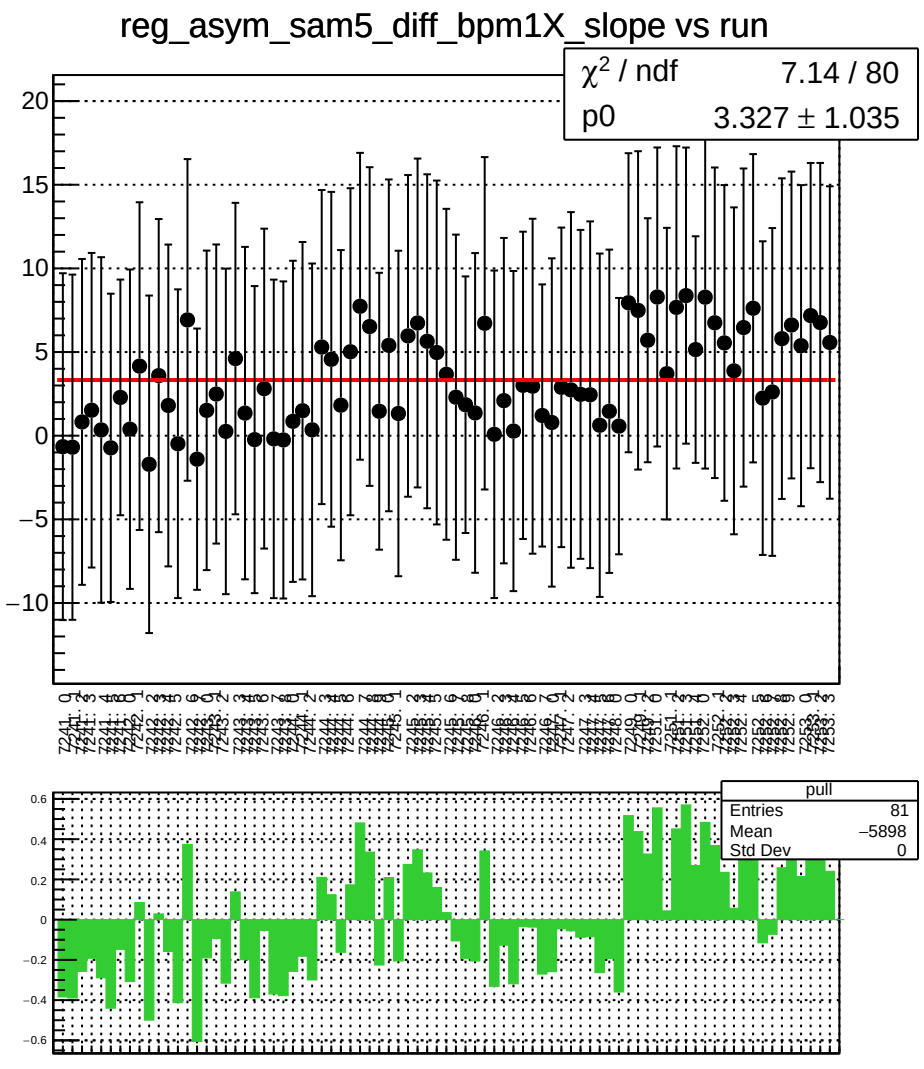

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 4.561 / 80
p0 18.74 ± 1.36
pull
Entries 81
Mean −472.5
Std Dev 0
pull1D
Entries 81
Mean 0.005547
Std Dev 0.2372

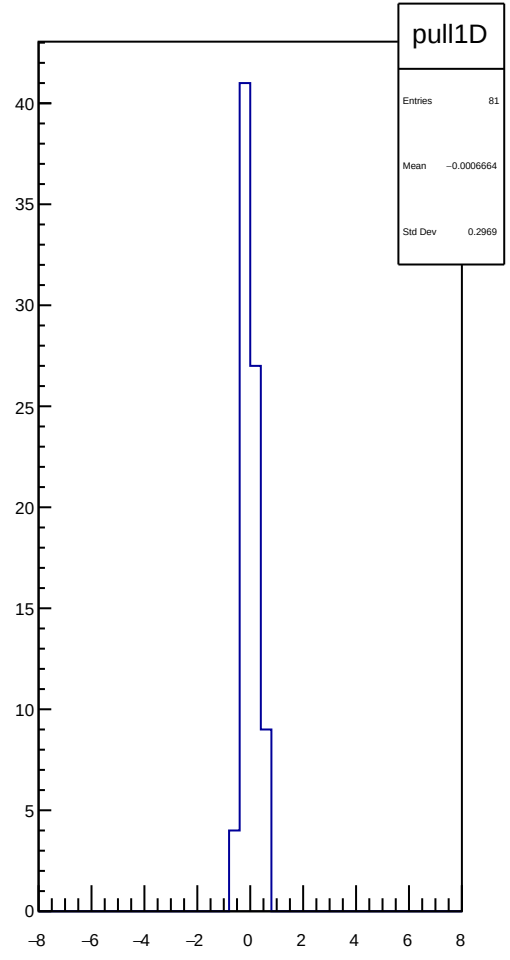

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 5.074 / 80
p0 −122.7 ± 1.852
pull
Entries 81
Mean 334.9
Std Dev 0
pull1D
Entries 81
Mean −0.002095
Std Dev 0.2503

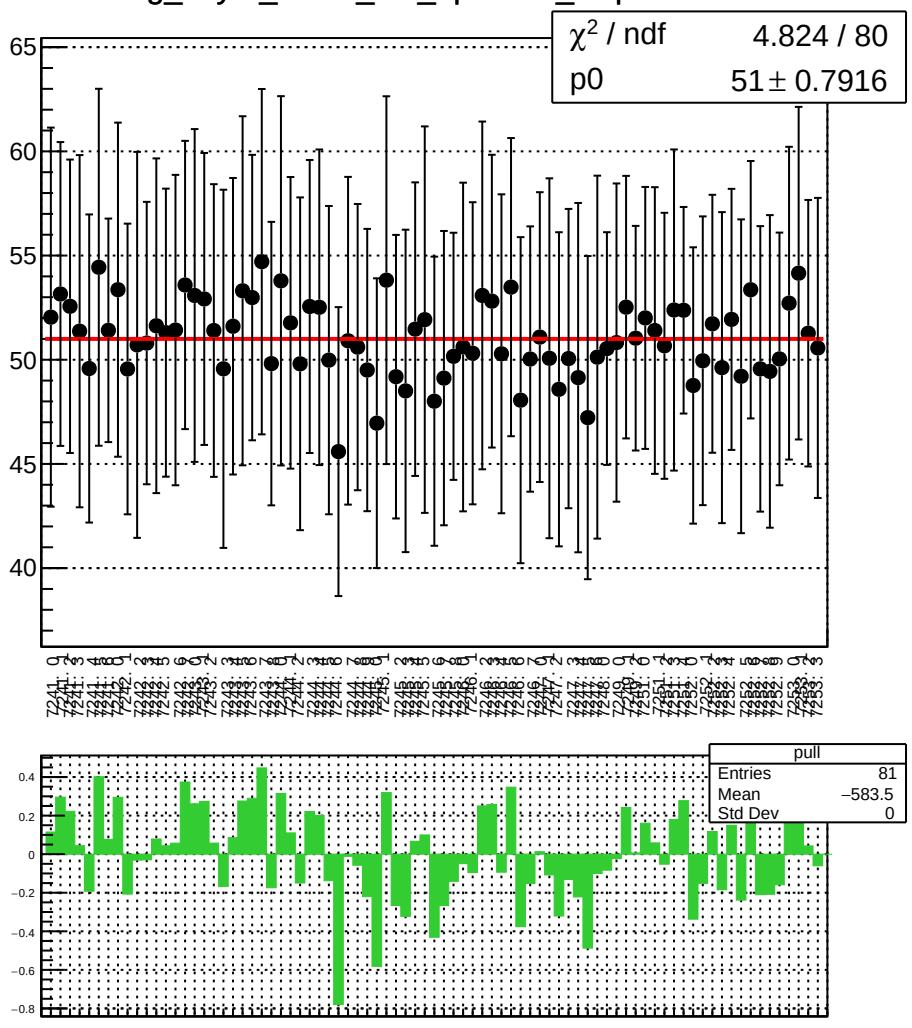

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 7.358 / 80
p0 188.5 ± 1.462
210
200
190
180
170
pull
Entries 81
Mean 1074
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

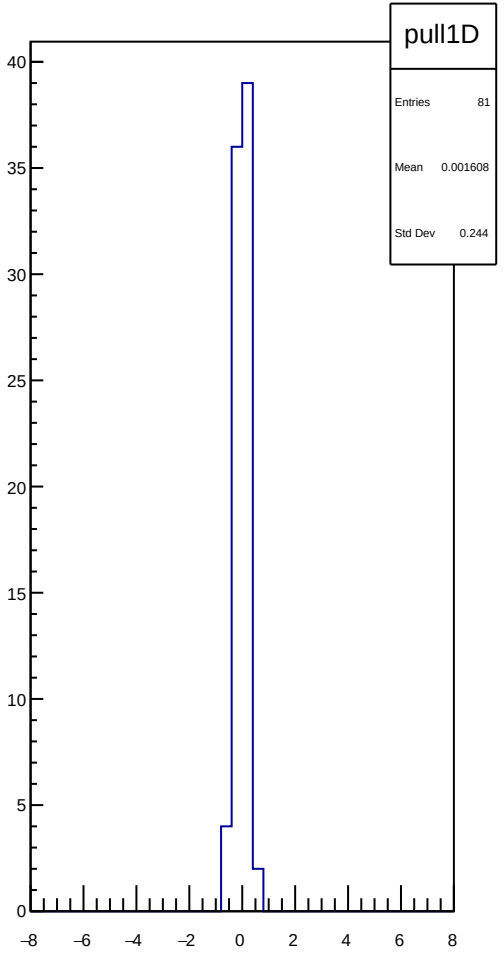

pull1D
Entries 81
Mean 0.002982
Std Dev 0.3014
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

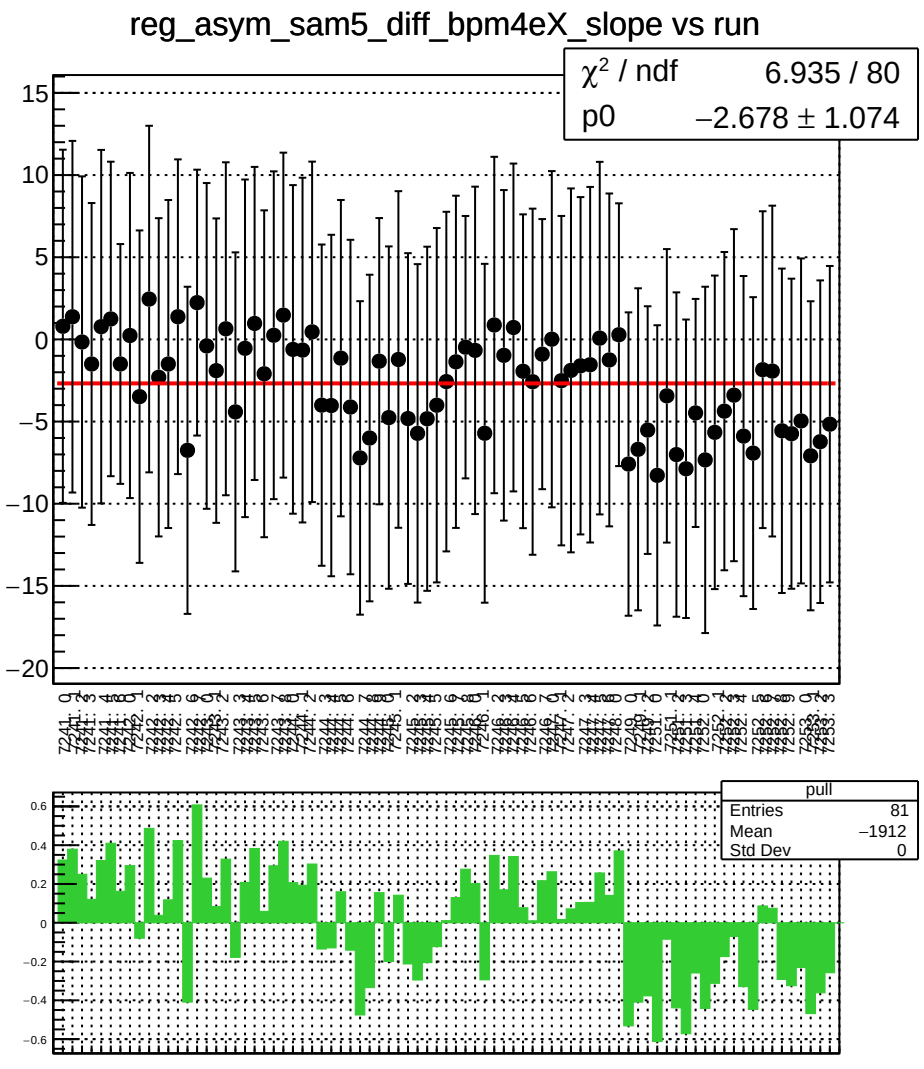

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 14.58 / 80
p0 −0.5025 ± 0.06521
pull
Entries 81
Mean −344.5
Std Dev 0
pull1D
Entries 81
Mean −0.01786
Std Dev 0.4238

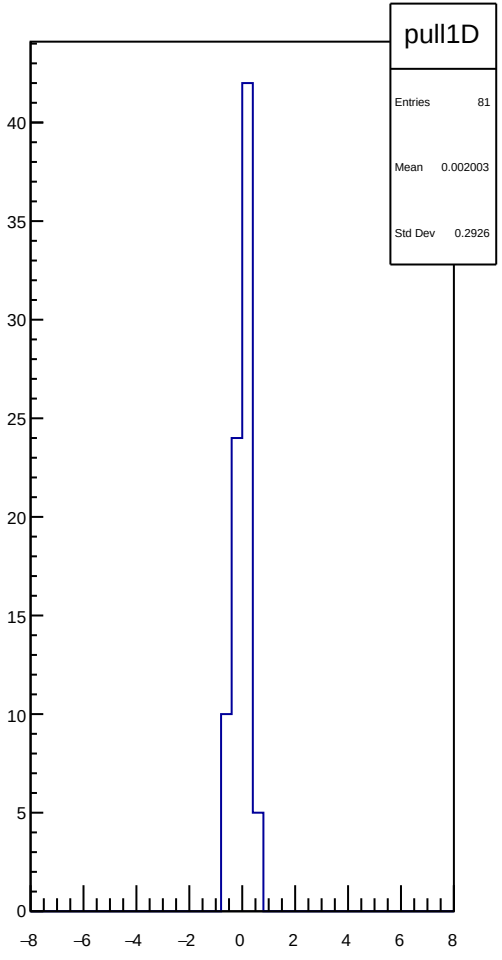

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 7.14 / 80
p0 3.327 ± 1.035
pull
Entries 81
Mean −5898
Std Dev 0

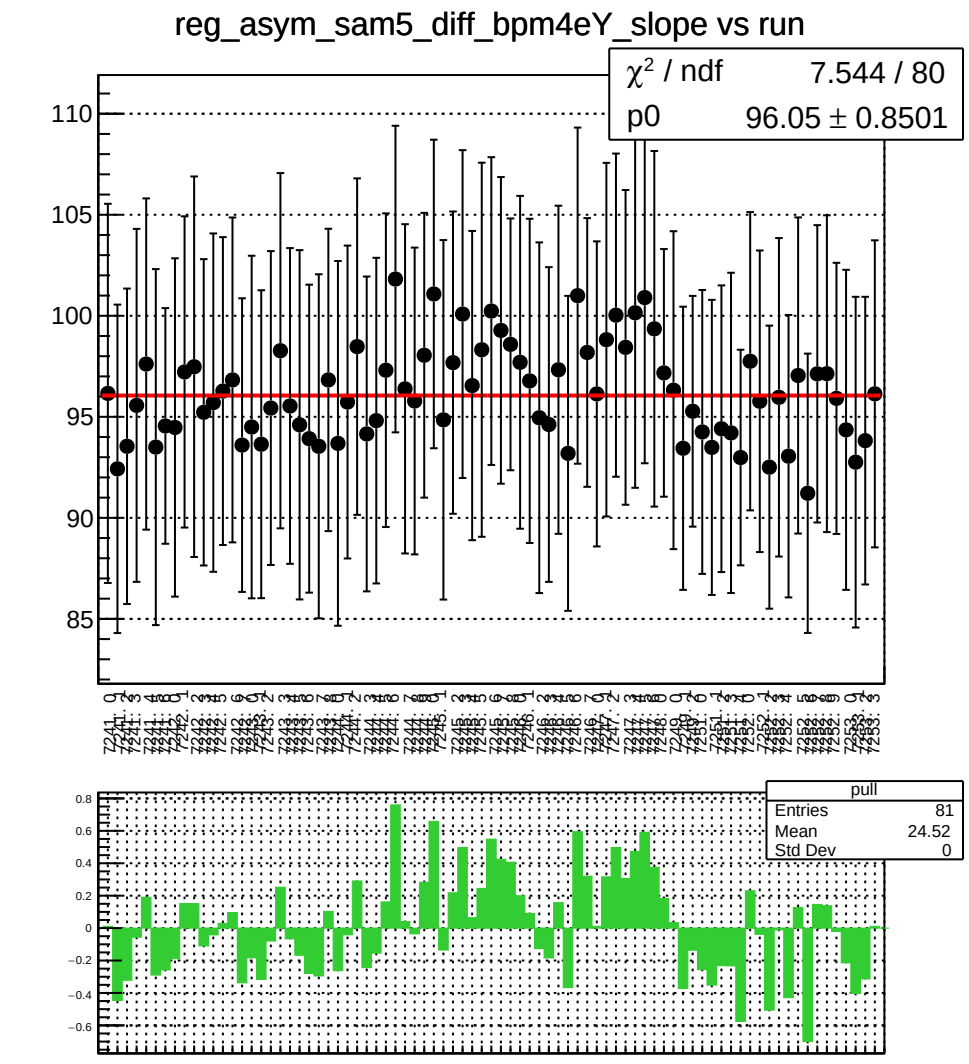

pull1D
Entries 81
Mean −0.0006664
Std Dev 0.2969

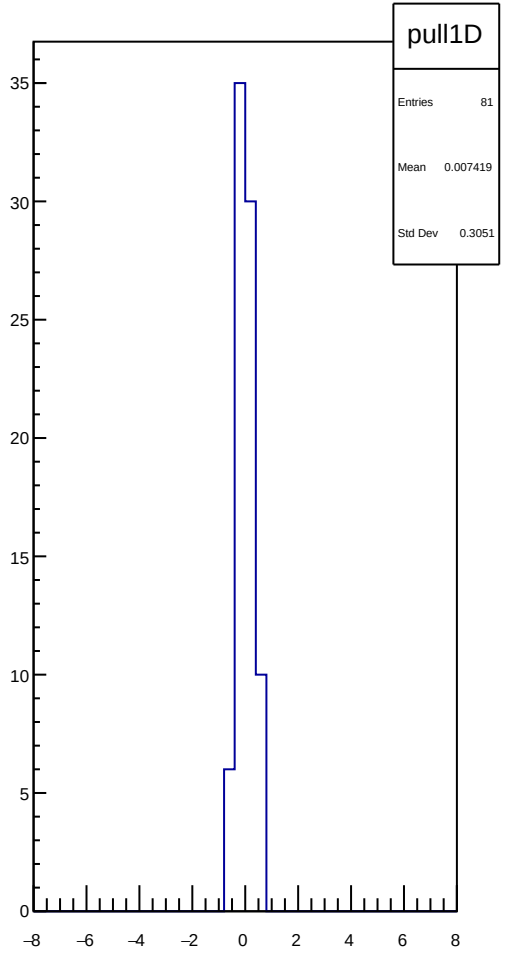

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 4.824 / 80
p0 51 ± 0.7916
pull
Entries 81
Mean −583.5
Std Dev 0

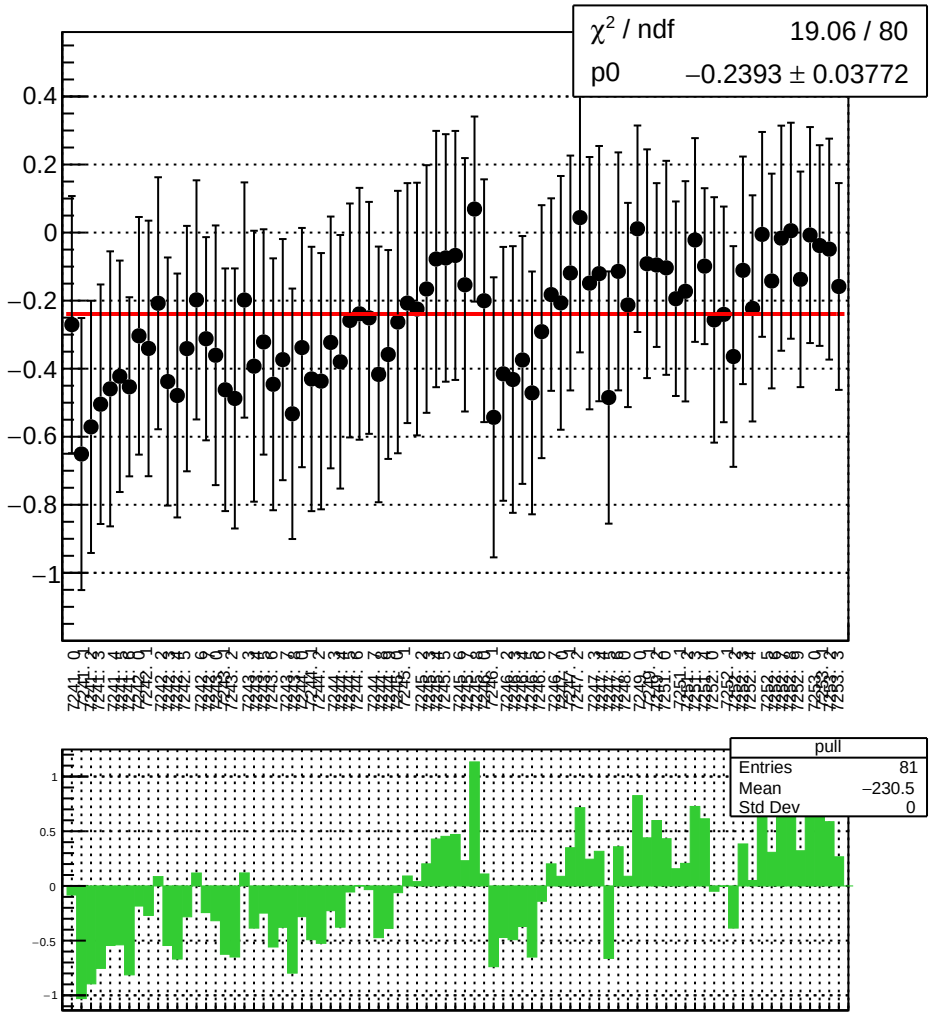

pull1D
Entries 81
Mean 0.001608
Std Dev 0.244

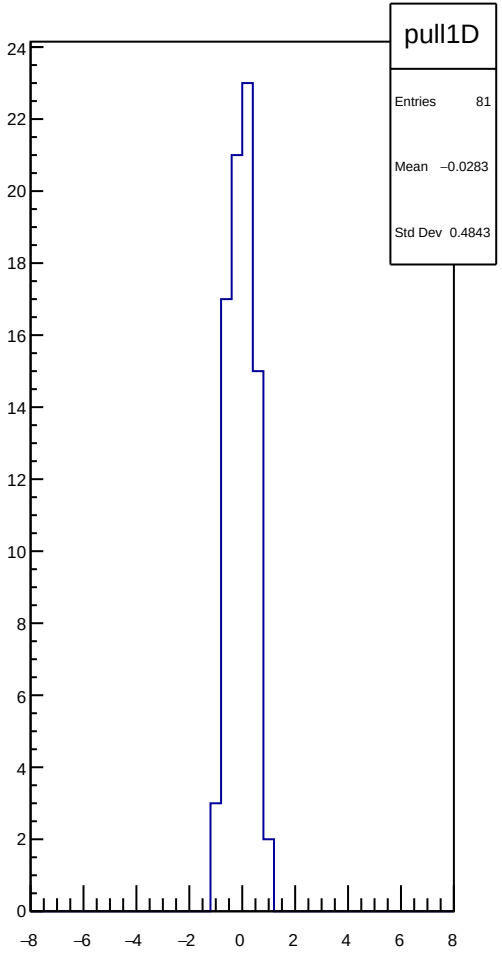

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 6.935 / 80
p0 −2.678 ± 1.074
pull
Entries 81
Mean −1912
Std Dev 0

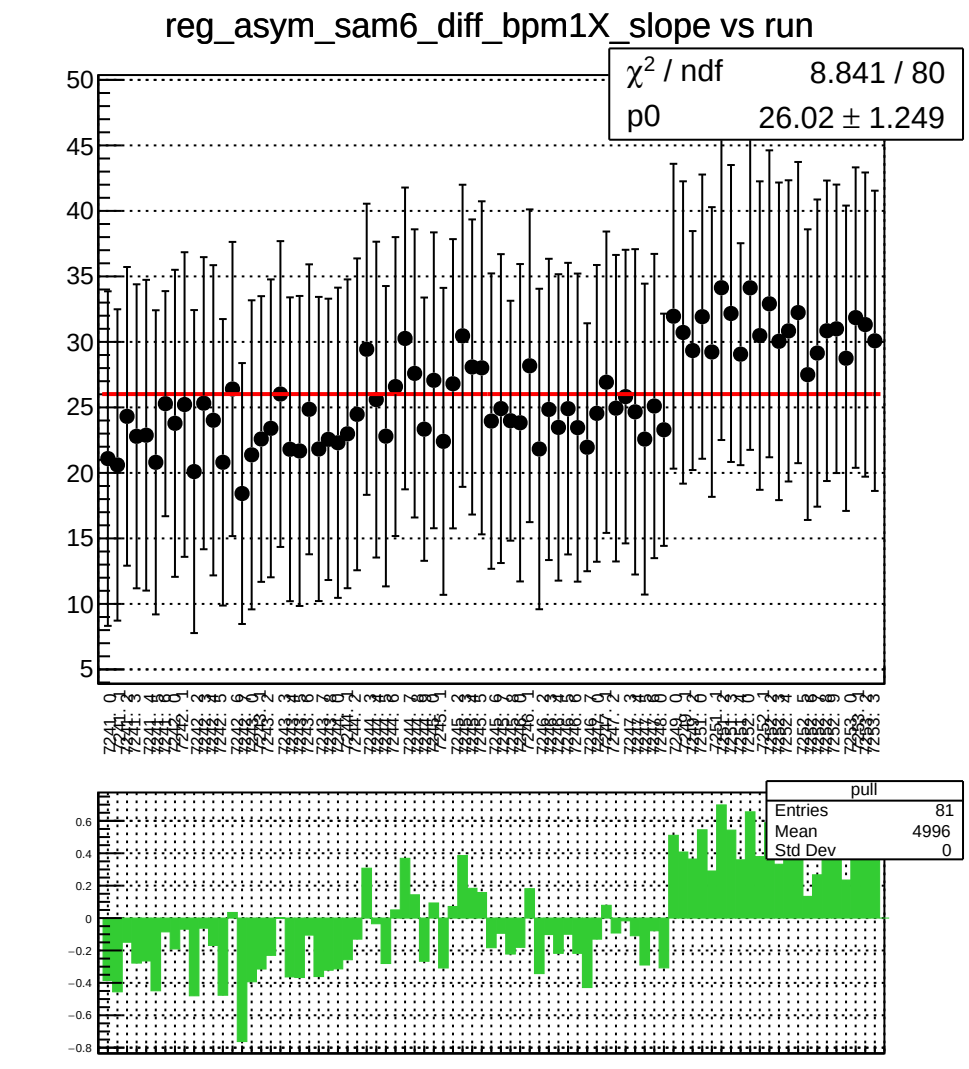

pull1D
Entries 81
Mean 0.002003
Std Dev 0.2926

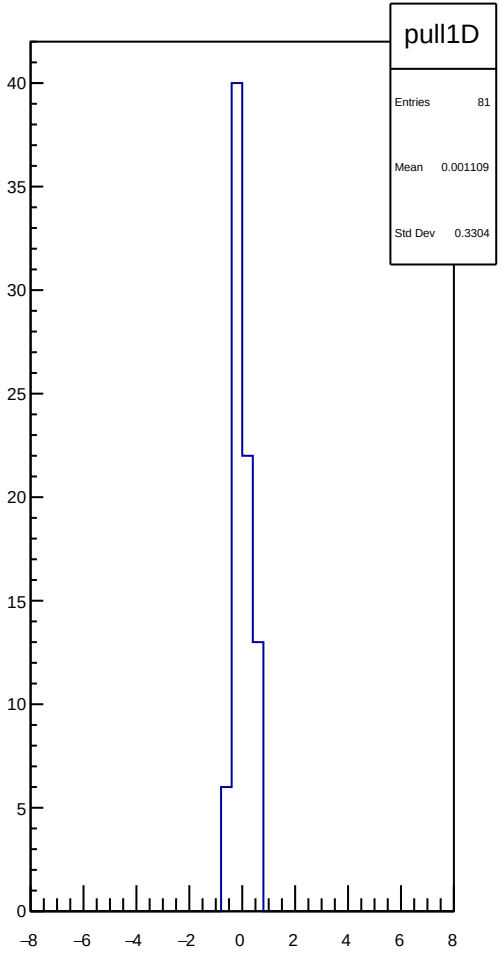

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 7.544 / 80
p0 96.05 ± 0.8501
pull
Entries 81
Mean 24.52
Std Dev 0

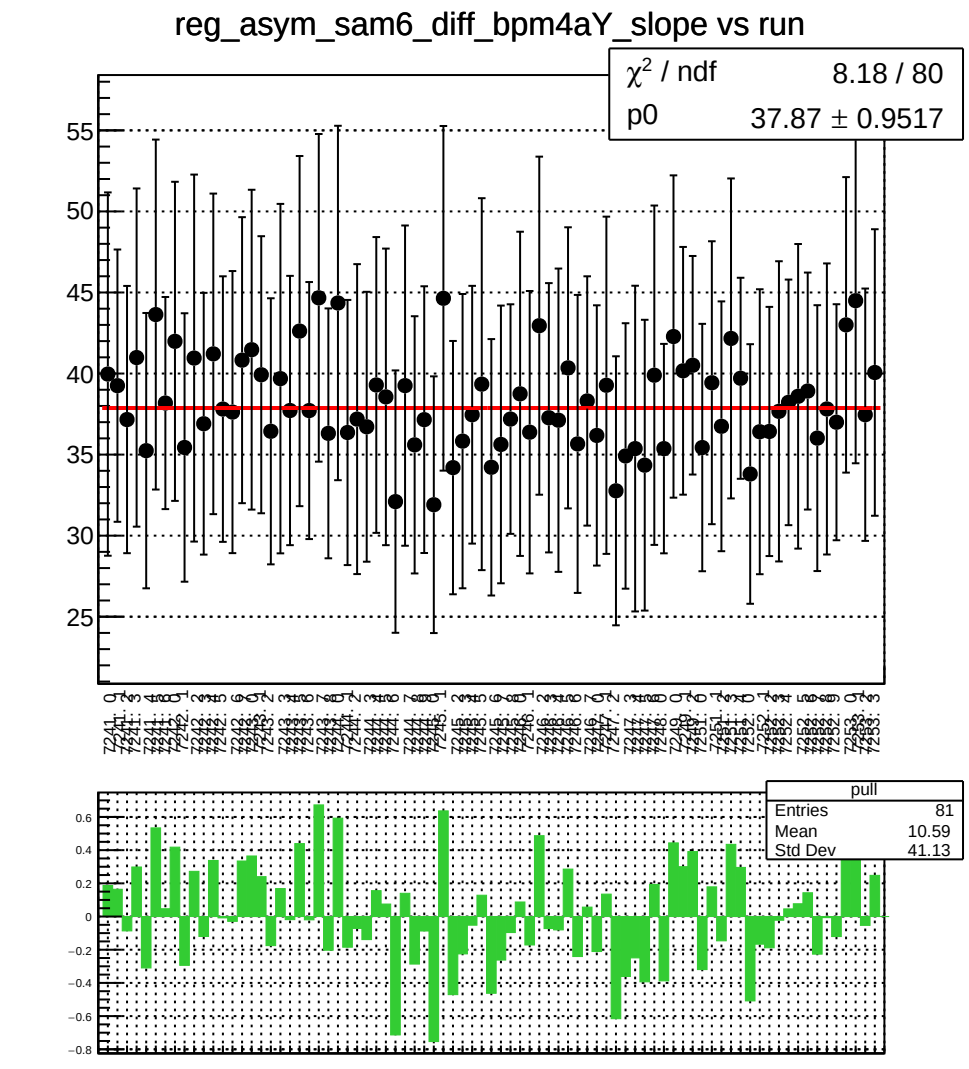

pull1D
Entries 81
Mean 0.007419
Std Dev 0.3051

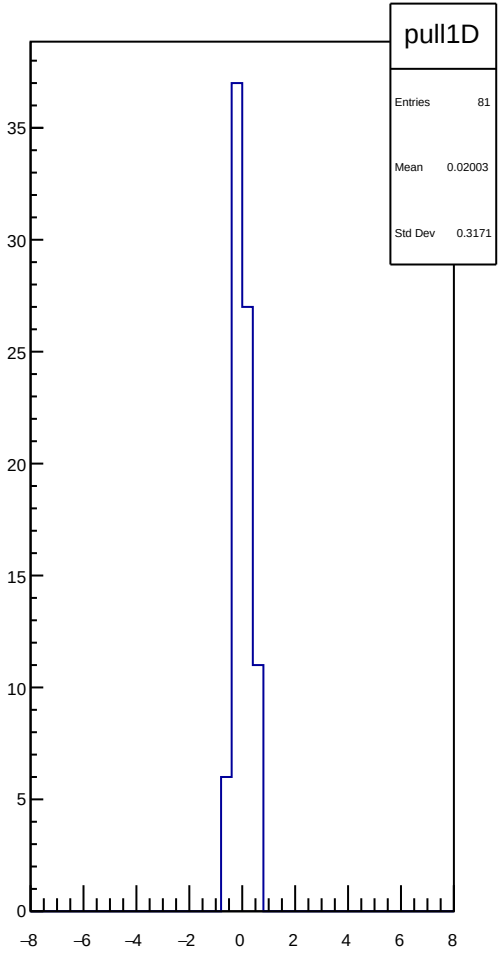

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 19.06 / 80
p0 −0.2393 ± 0.03772
pull
Entries 81
Mean −230.5
Std Dev 0

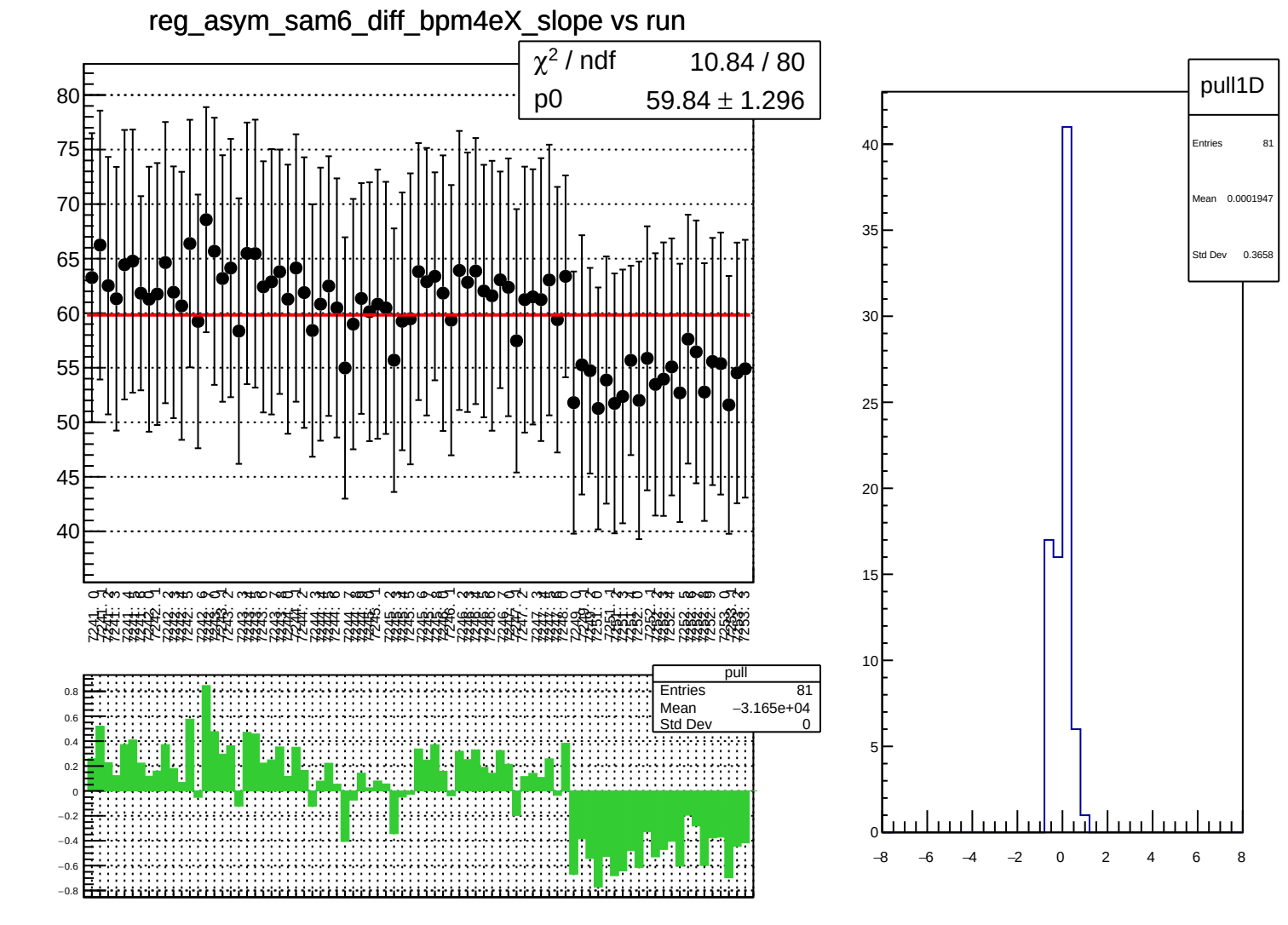

pull1D
Entries 81
Mean −0.0283
Std Dev 0.4843

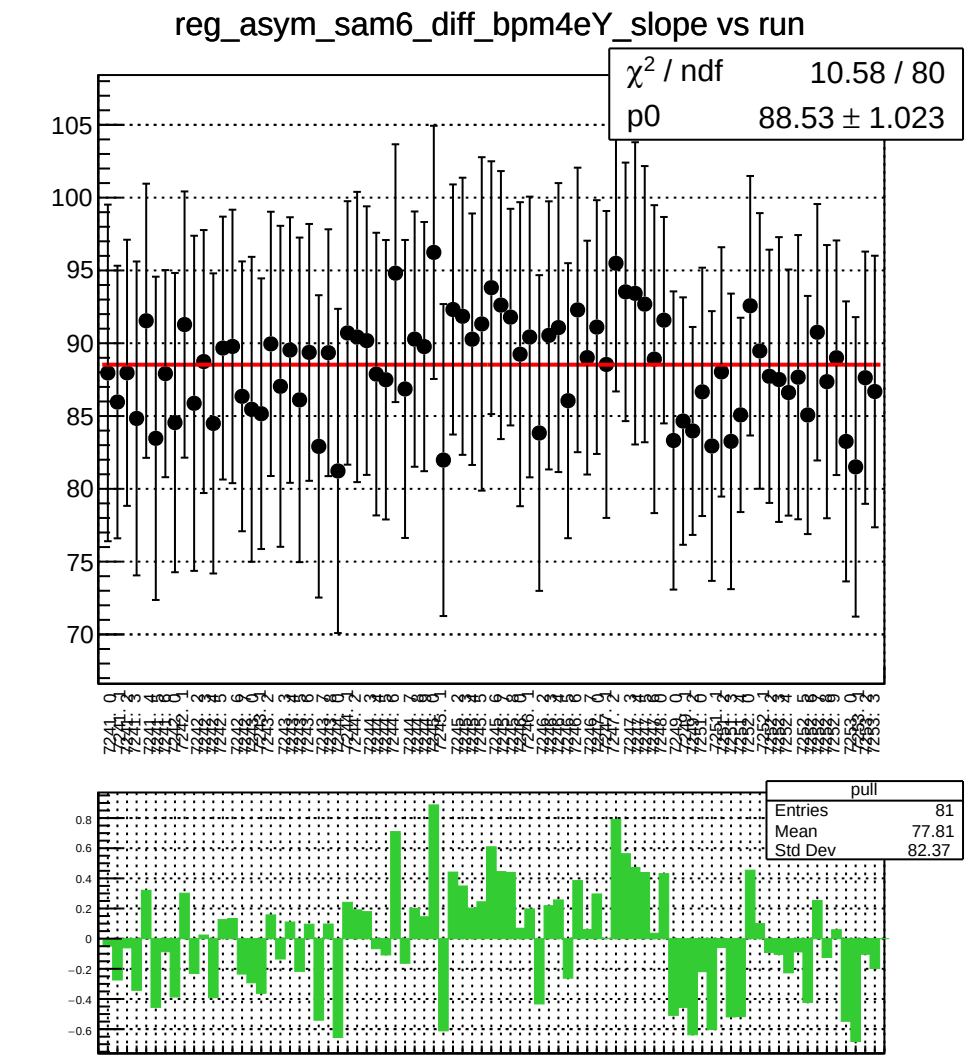

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 8.841 / 80
p0 26.02 ± 1.249
pull
Entries 81
Mean 4996
Std Dev 0

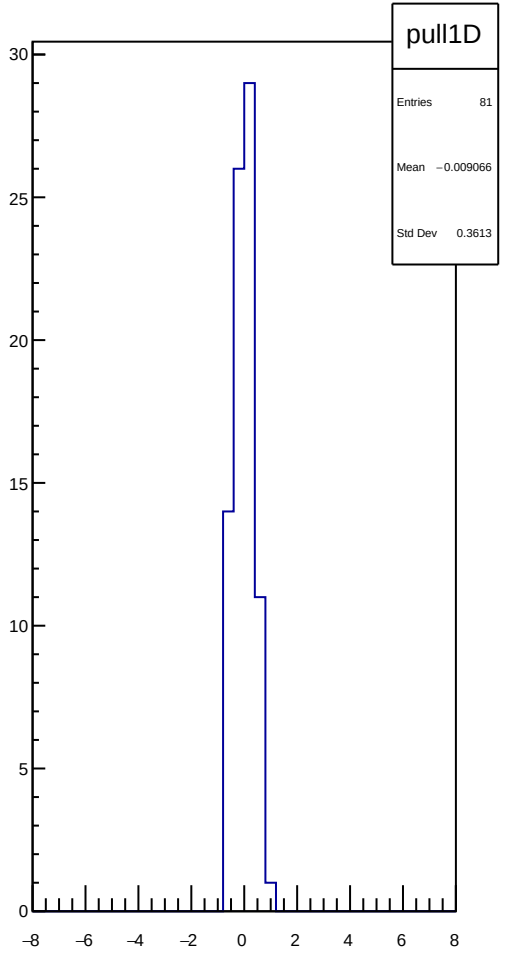

pull1D
Entries 81
Mean 0.001109
Std Dev 0.3304

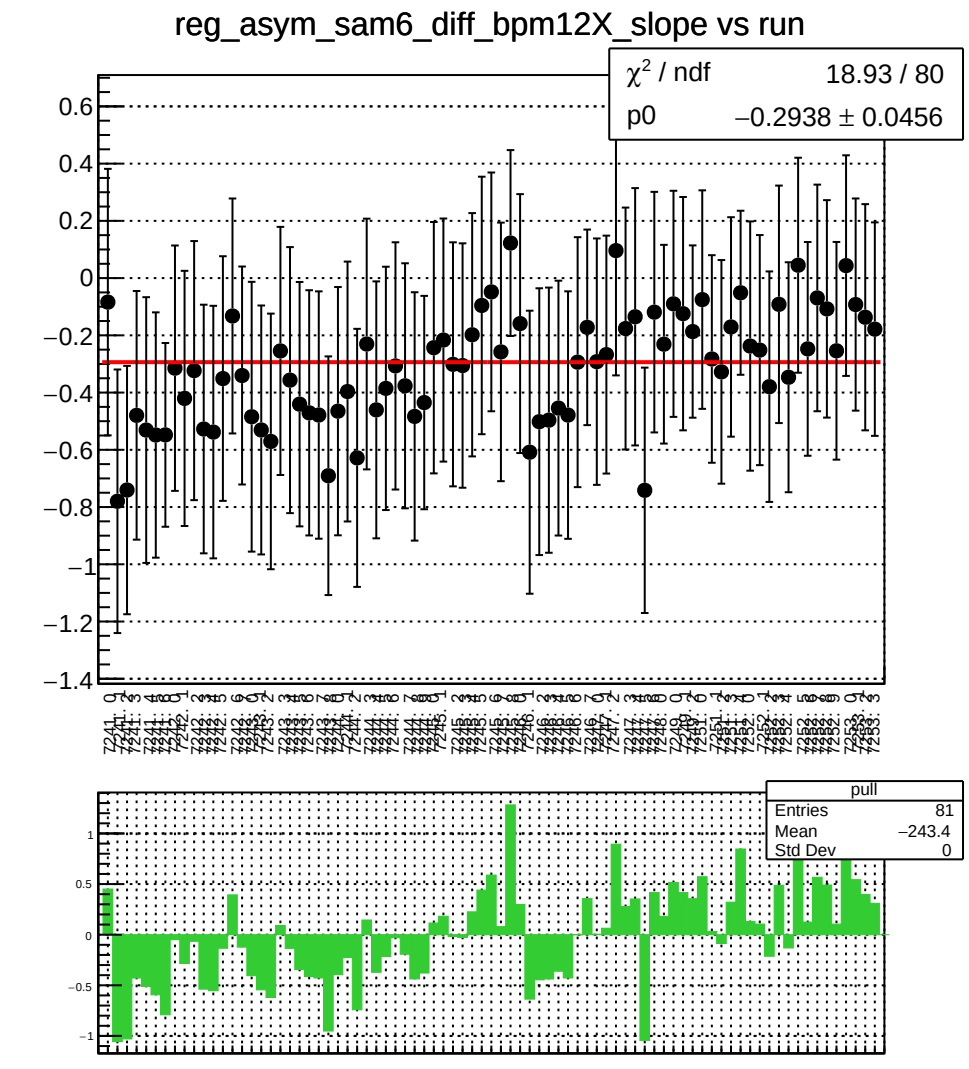

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 8.18 / 80
p0 37.87 ± 0.9517
pull
Entries 81
Mean 10.59
Std Dev 41.13

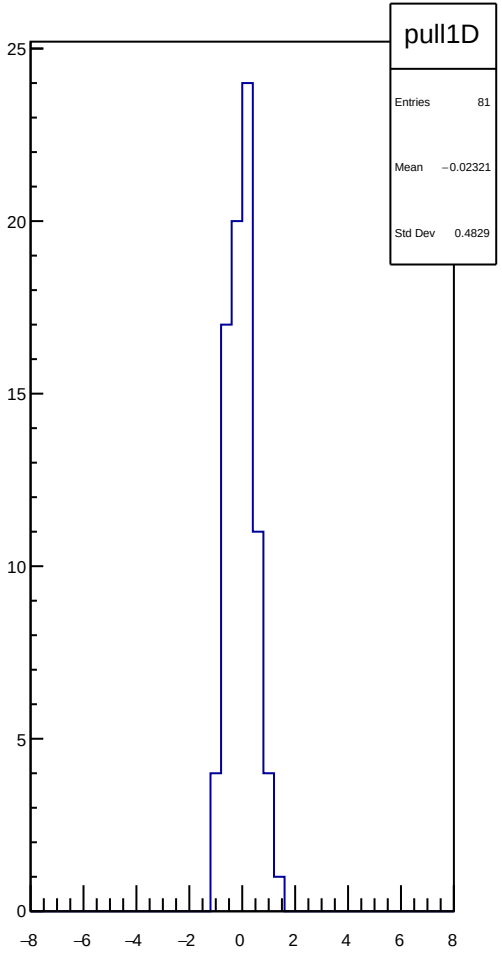

pull1D
Entries 81
Mean 0.02003
Std Dev 0.3171

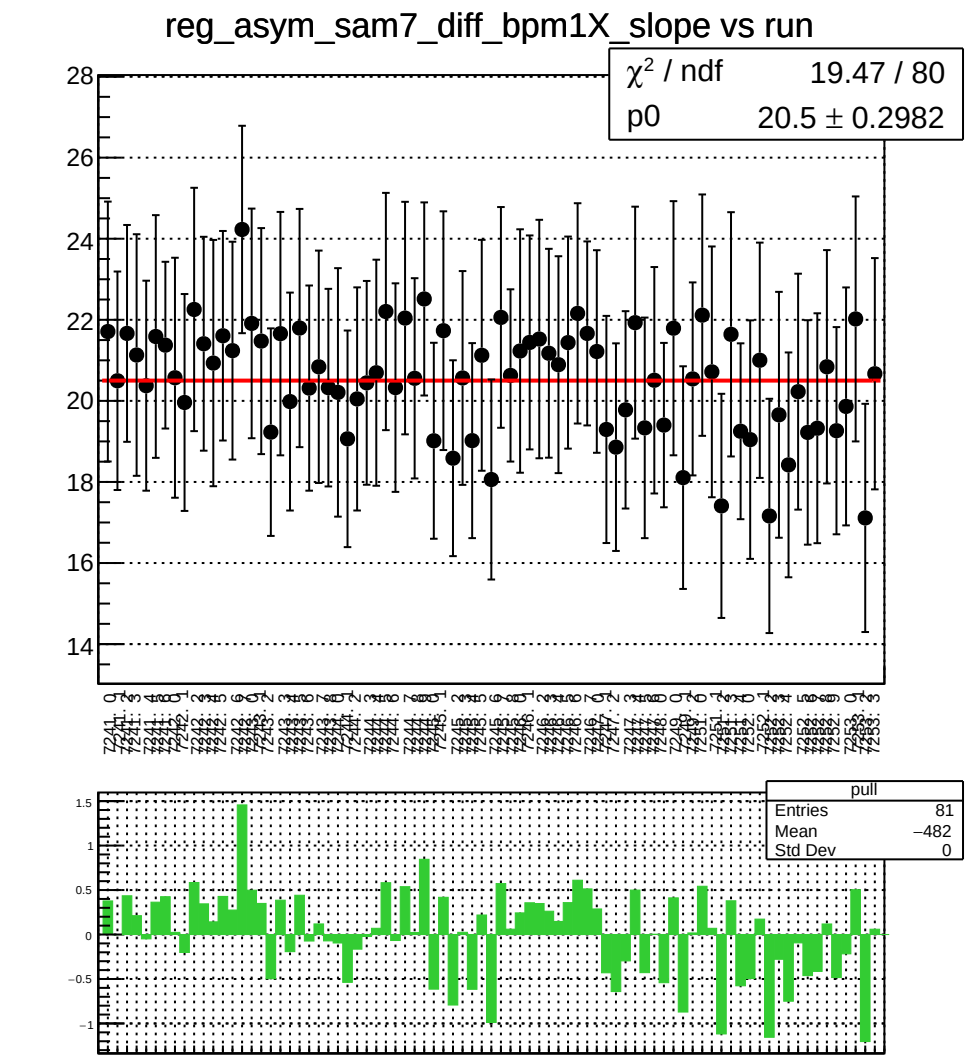

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 10.84 / 80
p0 59.84 ± 1.296
pull
Entries 81
Mean −3.165e+04
Std Dev 0
pull1D
Entries 81
Mean 0.0001947
Std Dev 0.3658

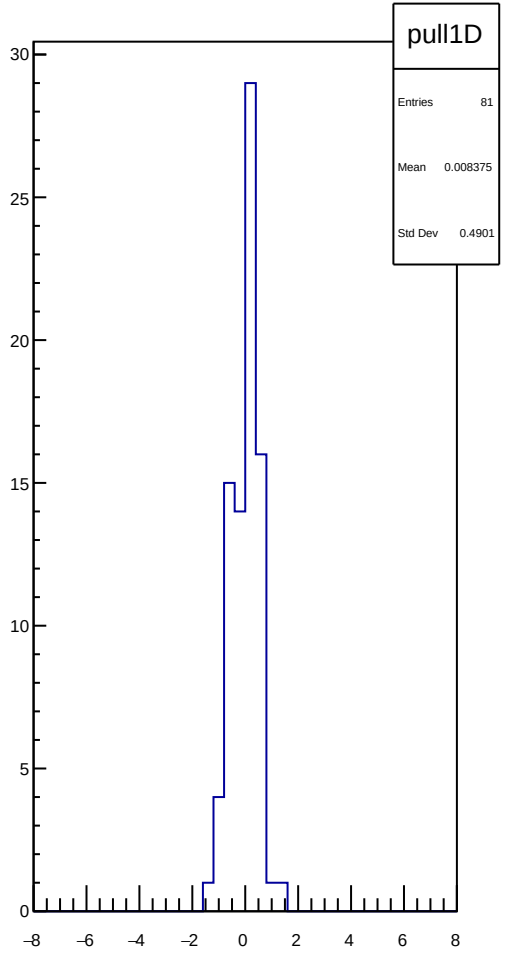

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 10.58 / 80
p0 88.53 ± 1.023
105
100
95
90
85
80
75
70
pull
Entries 81
Mean 77.81
Std Dev 82.37
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

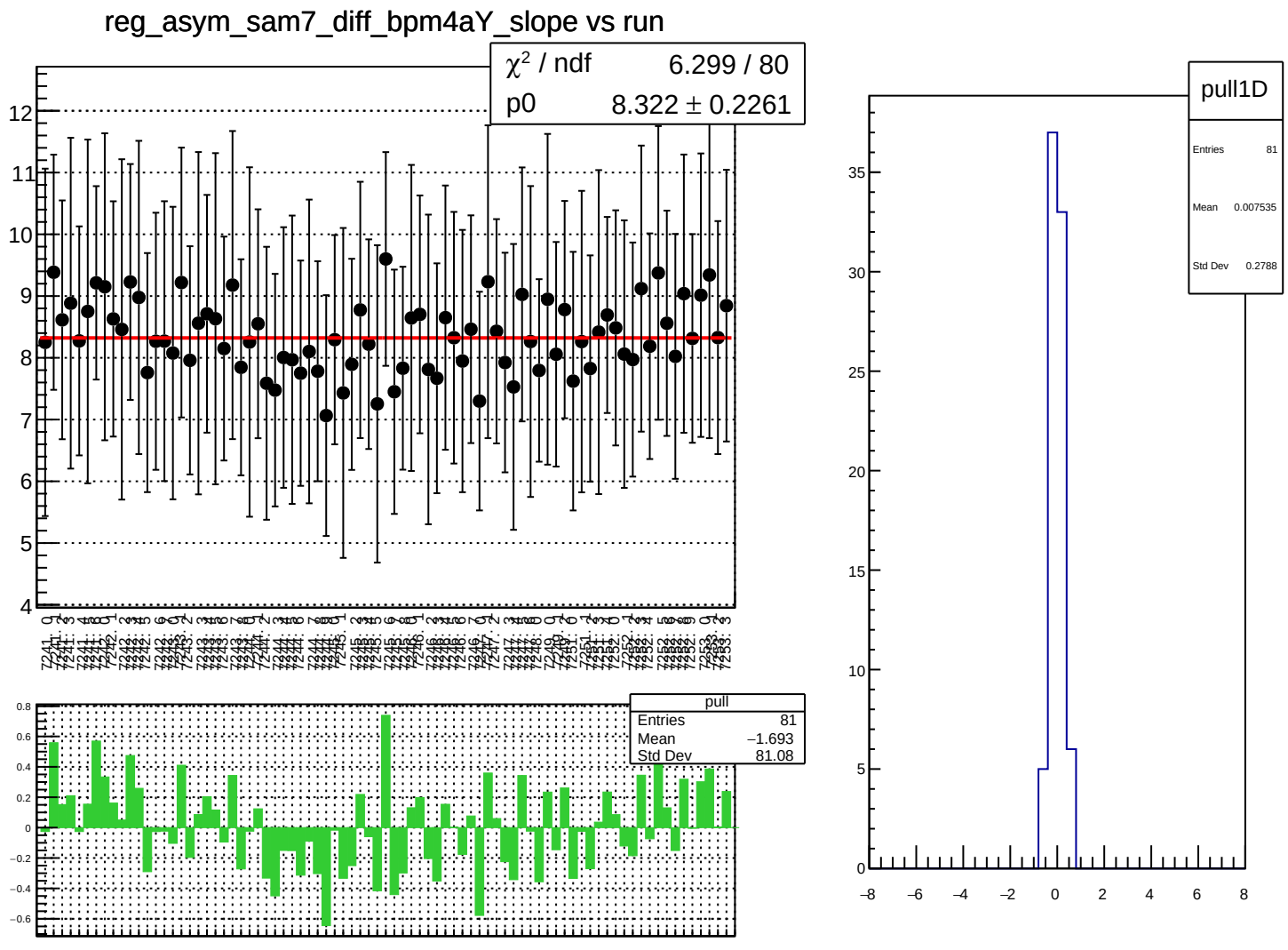

pull1D
Entries 81
Mean −0.009066
Std Dev 0.3613
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

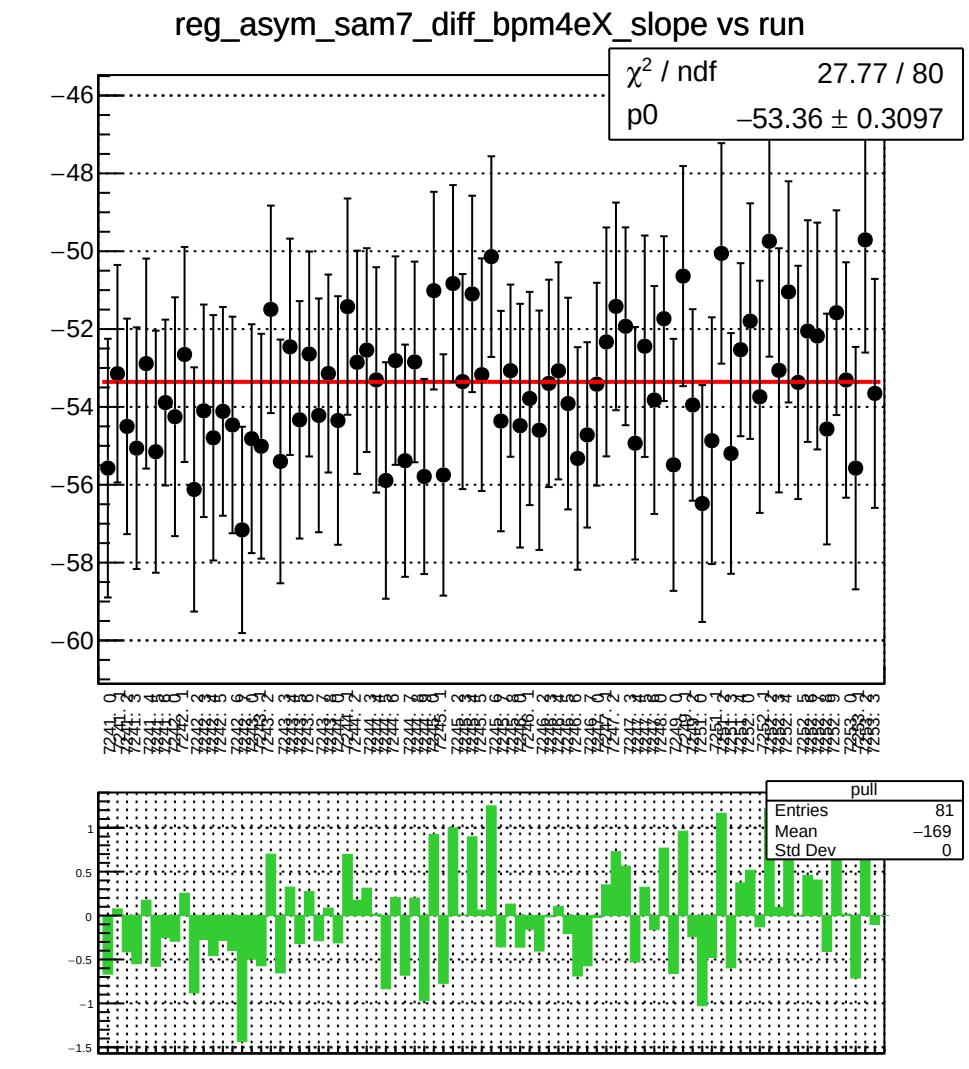

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 18.93 / 80
p0 −0.2938 ± 0.0456
pull
Entries 81
Mean −243.4
Std Dev 0

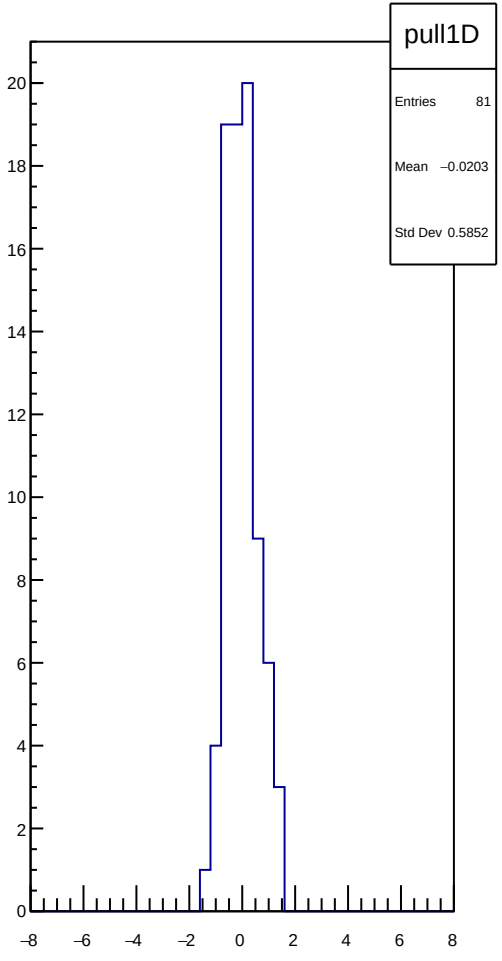

pull1D
Entries 81
Mean −0.02321
Std Dev 0.4829

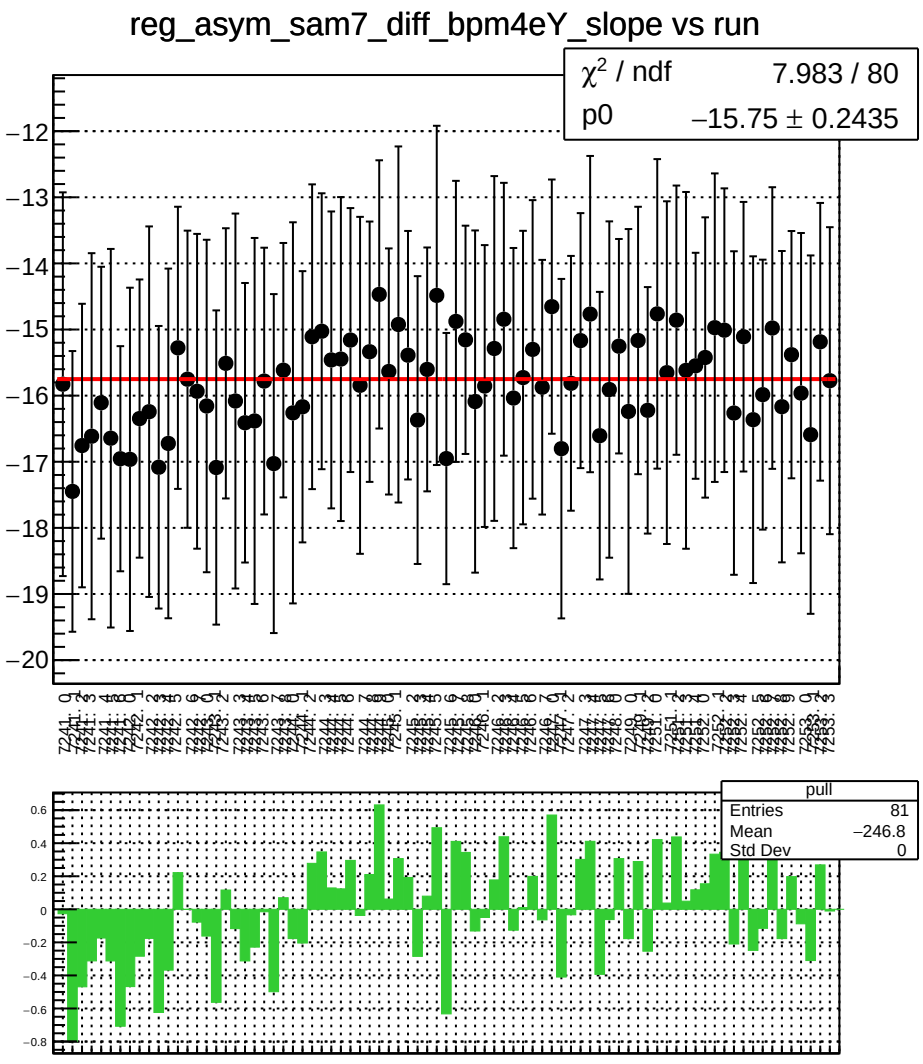

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 19.47 / 80
p0 20.5 ± 0.2982
pull
Entries 81
Mean −482
Std Dev 0

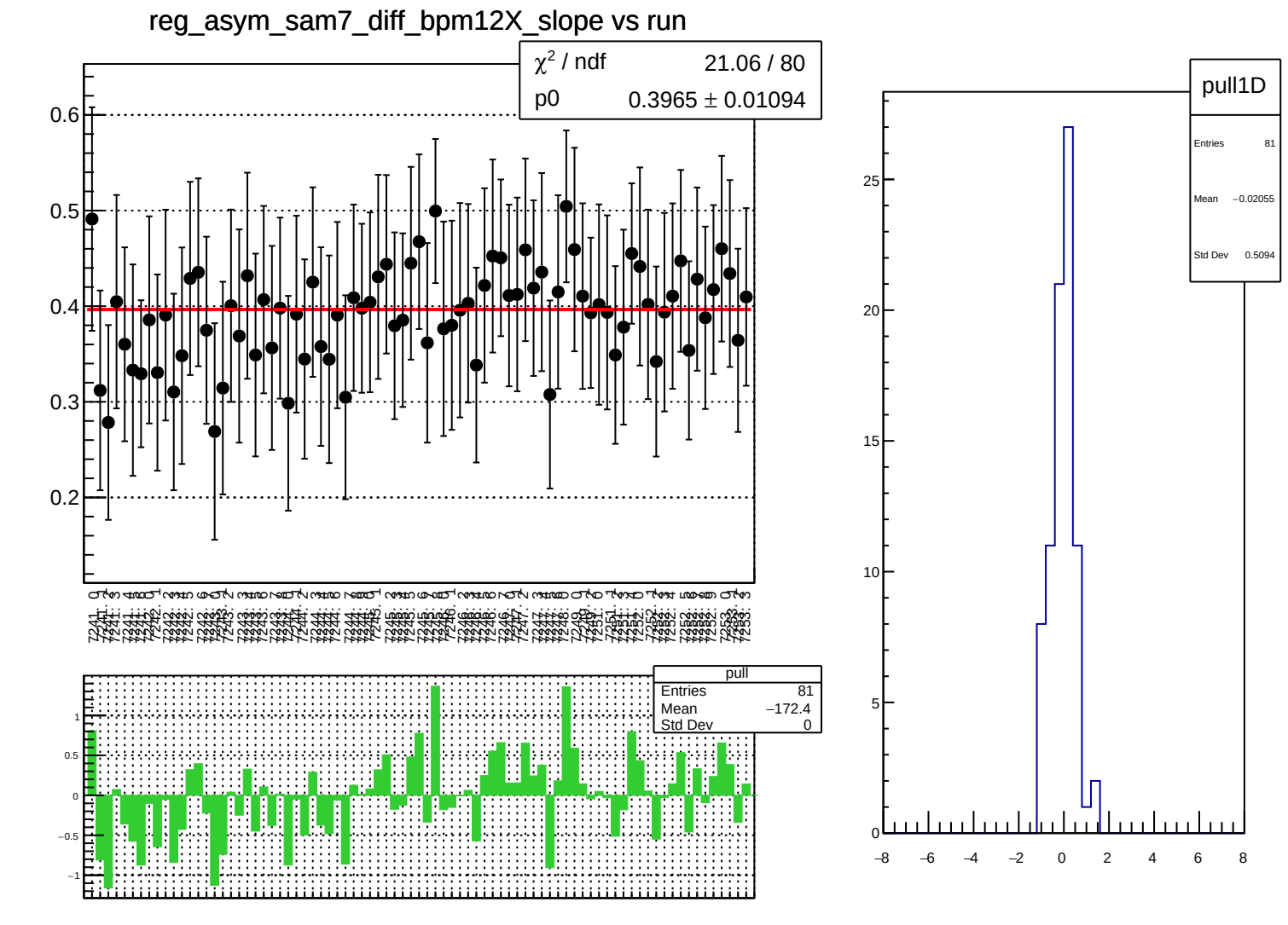

pull1D
Entries 81
Mean 0.008375
Std Dev 0.4901

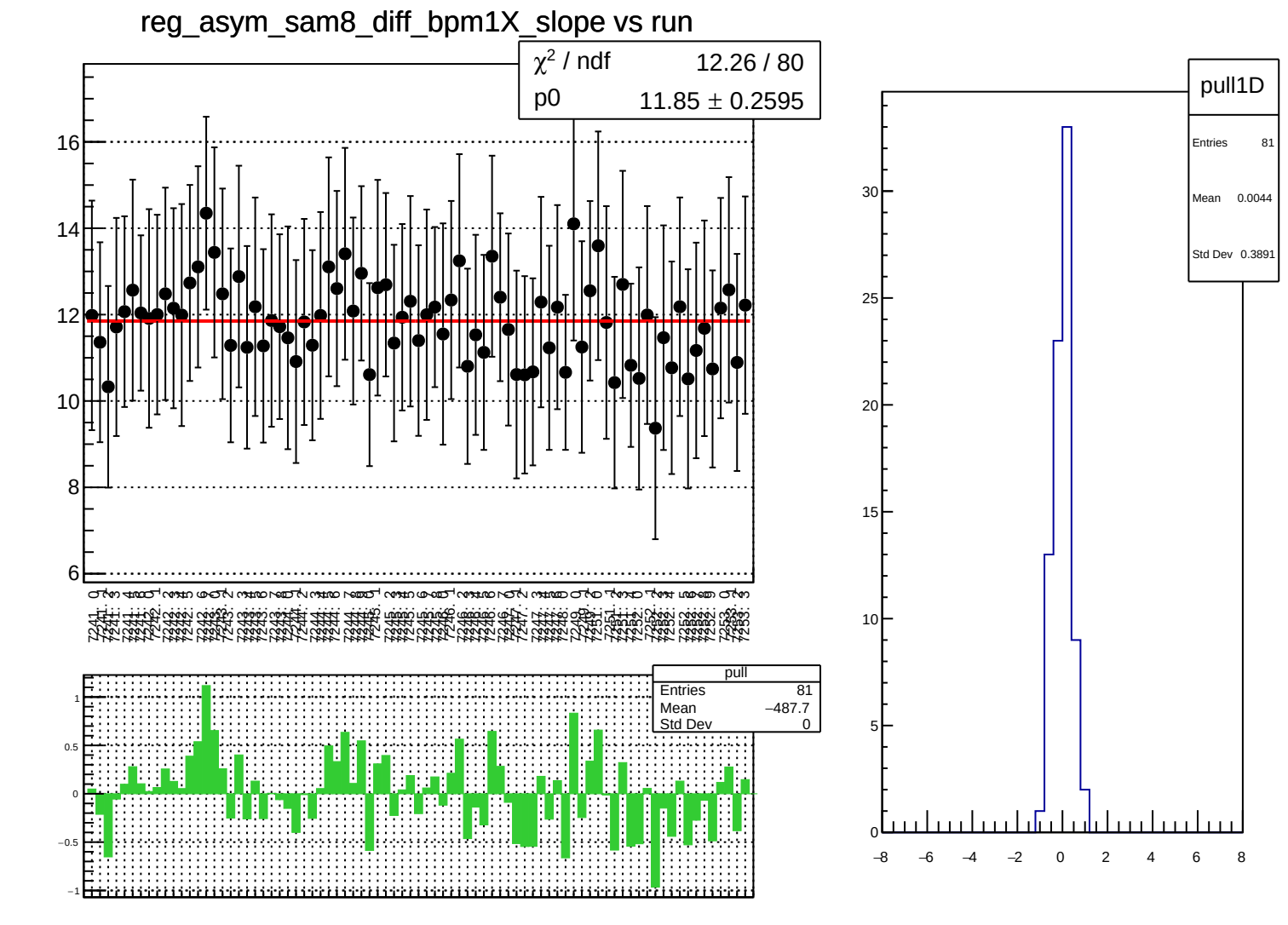

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 6.299 / 80
p0 8.322 ± 0.2261
pull
Entries 81
Mean −1.693
Std Dev 81.08
pull1D
Entries 81
Mean 0.007535
Std Dev 0.2788

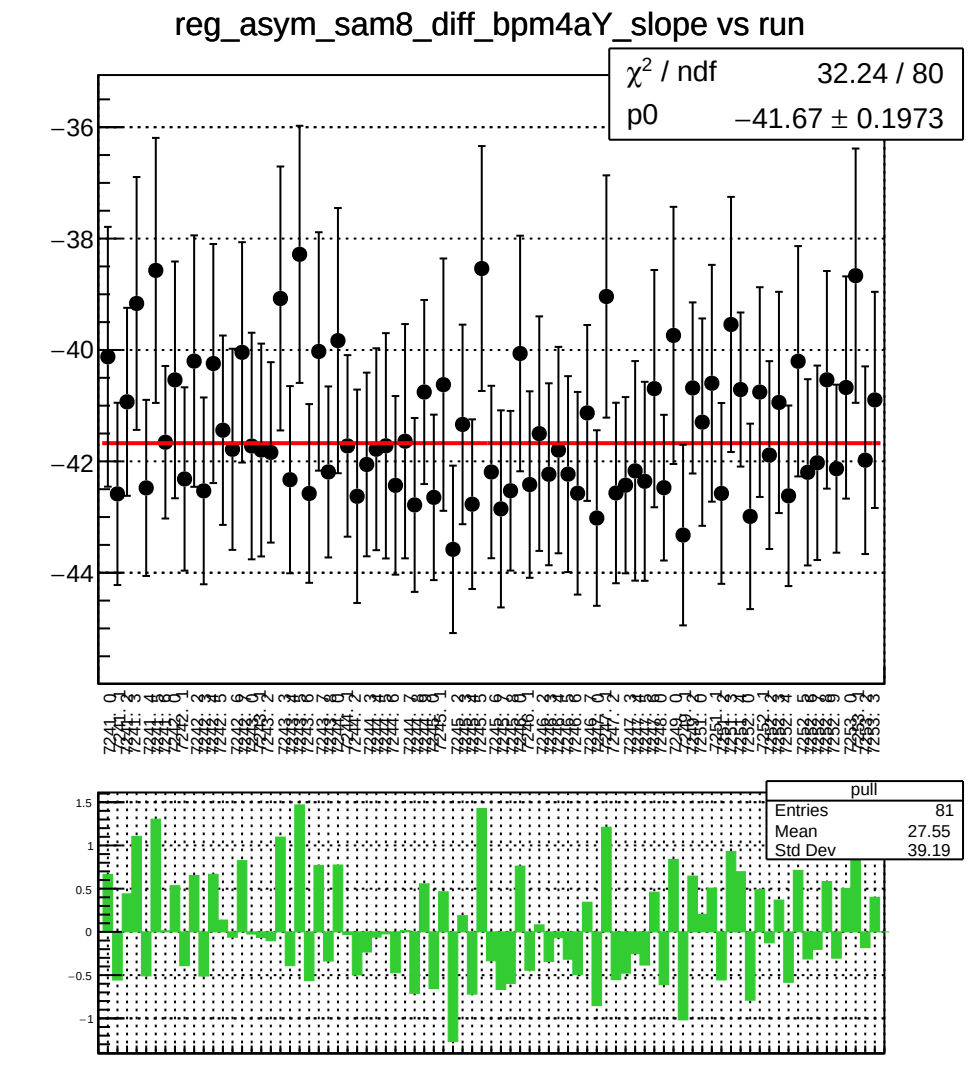

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 27.77 / 80
p0 −53.36 ± 0.3097
pull
Entries 81
Mean −169
Std Dev 0

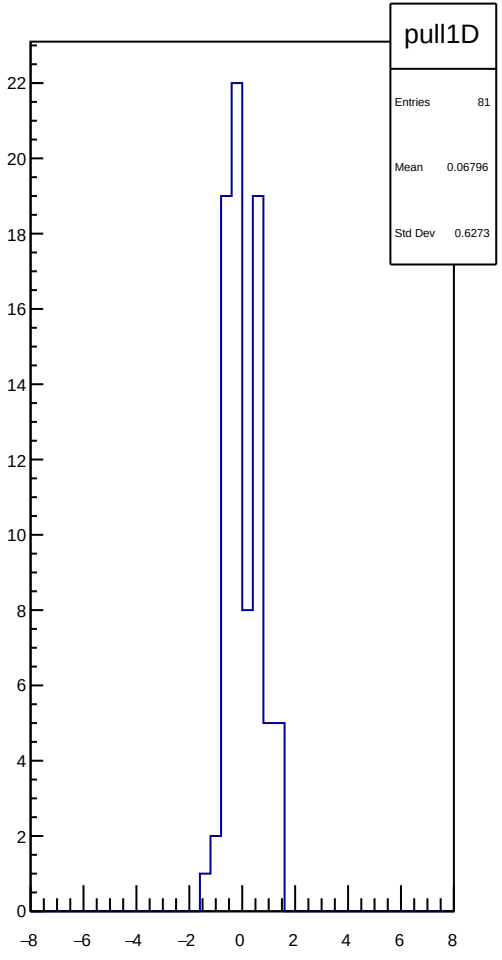

pull1D
Entries 81
Mean −0.0203
Std Dev 0.5852

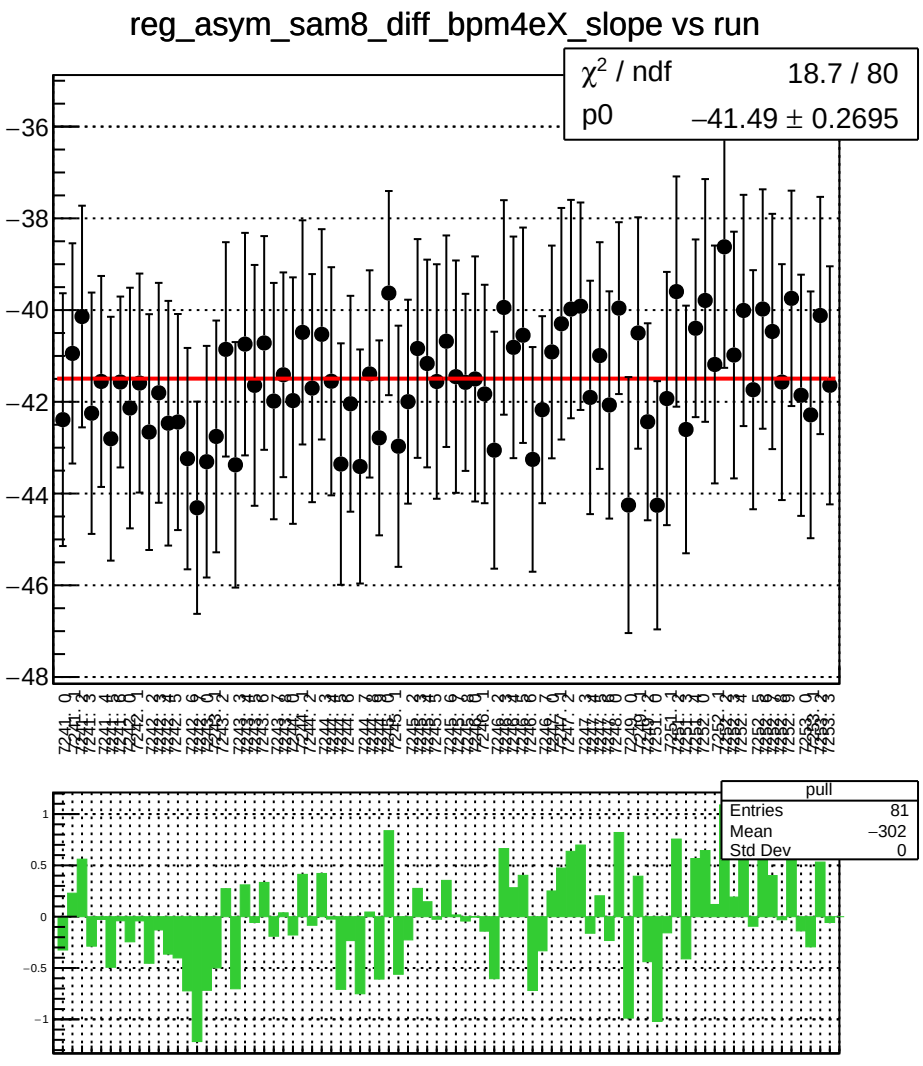

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 7.983 / 80
p0 −15.75 ± 0.2435
pull
Entries 81
Mean −246.8
Std Dev 0
pull1D
Entries 81
Mean −0.0102
Std Dev 0.3138

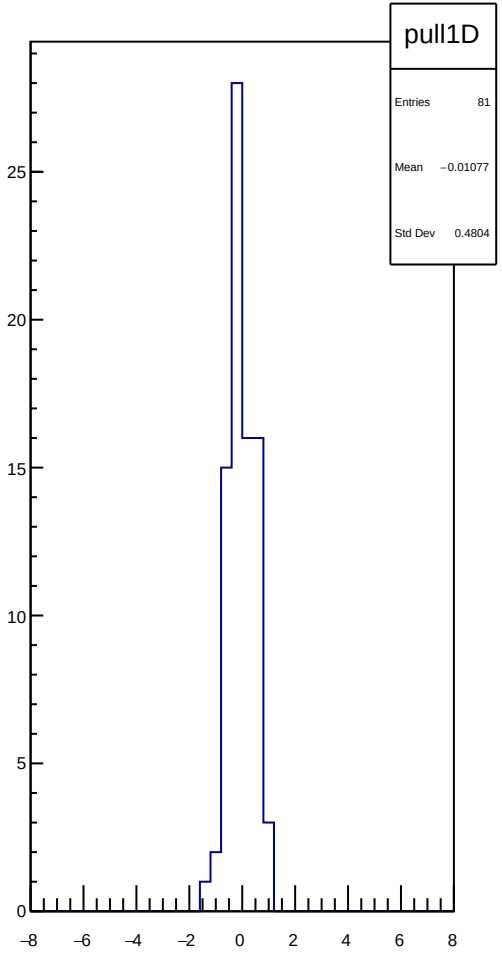

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 21.06 / 80
p0 0.3965 ± 0.01094
pull
Entries 81
Mean −172.4
Std Dev 0
pull1D
Entries 81
Mean −0.02055
Std Dev 0.5094

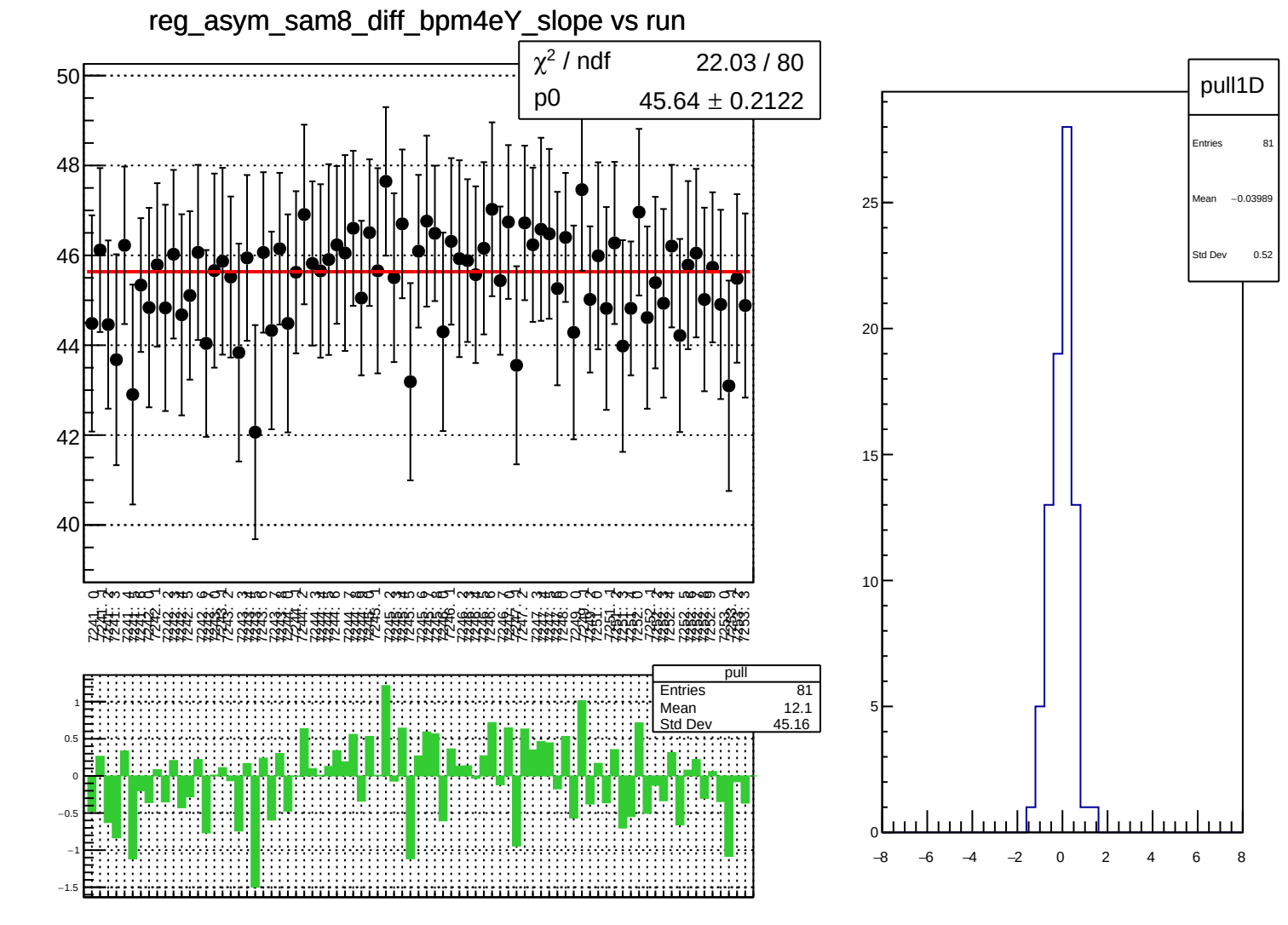

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 12.26 / 80
p0 11.85 ± 0.2595
pull
Entries 81
Mean −487.7
Std Dev 0
pull1D
Entries 81
Mean 0.0044
Std Dev 0.3891

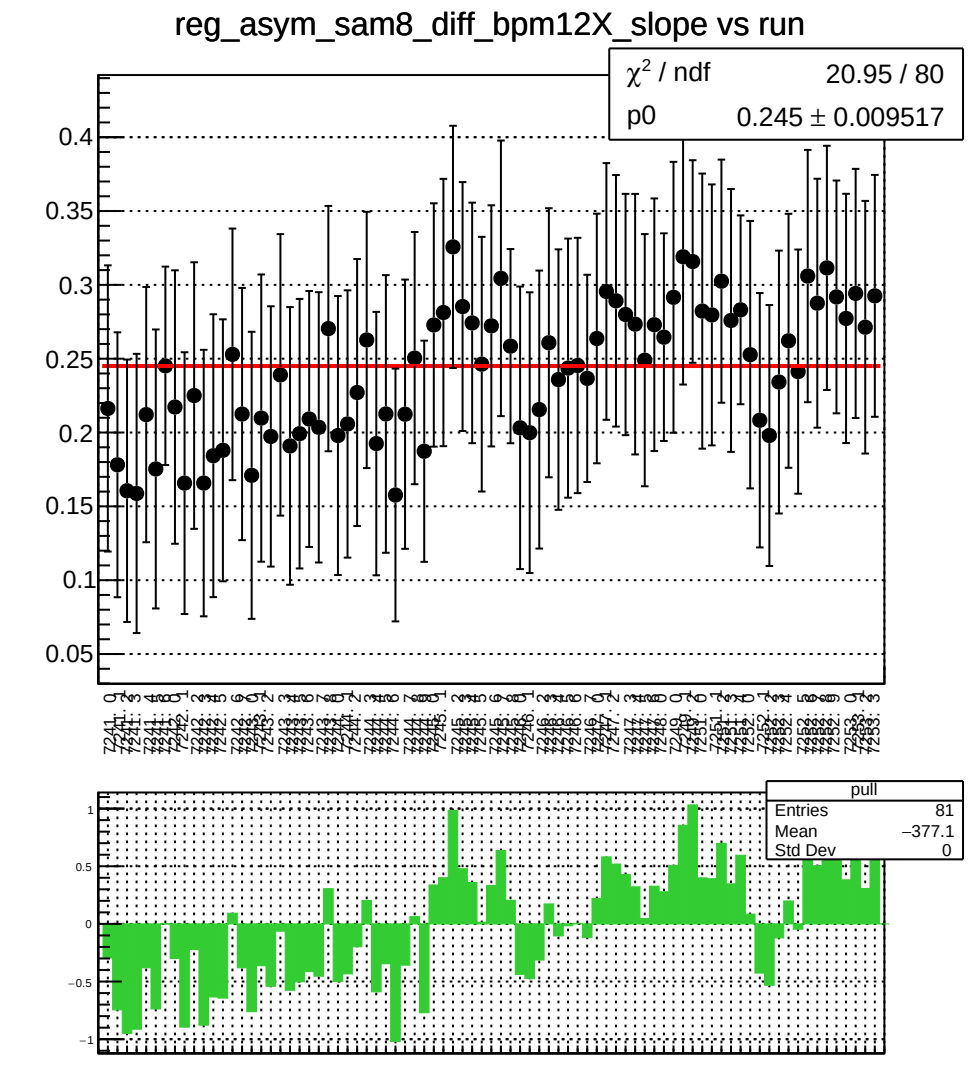

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 32.24 / 80
p0 −41.67 ± 0.1973
pull
Entries 81
Mean 27.55
Std Dev 39.19

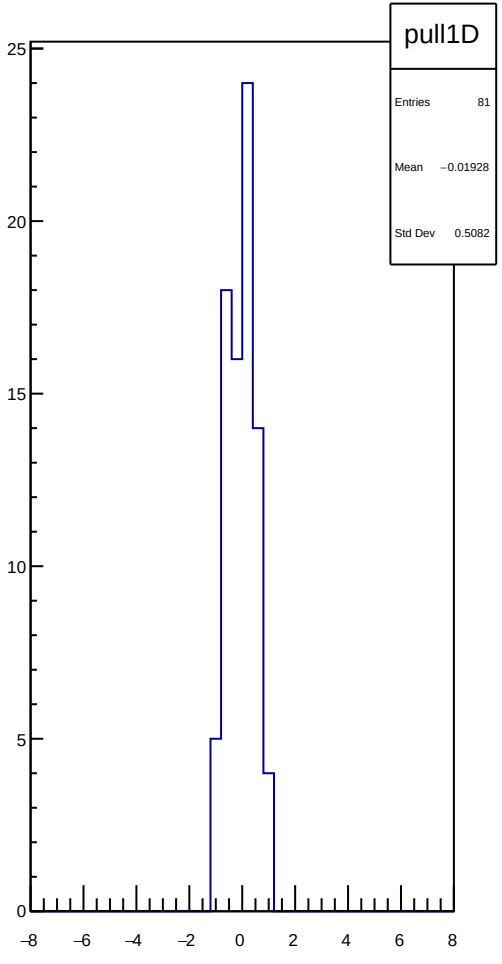

pull1D
Entries 81
Mean 0.06796
Std Dev 0.6273

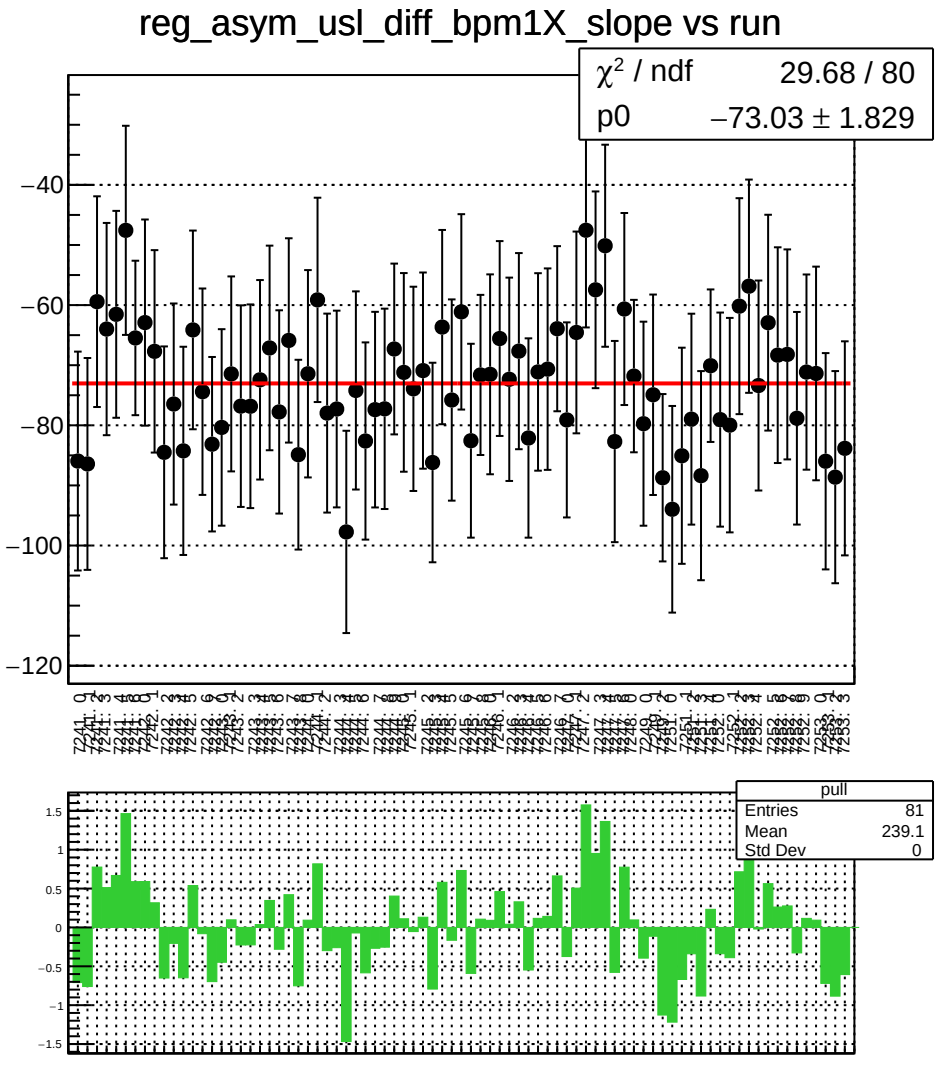

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 18.7 / 80
p0 −41.49 ± 0.2695
pull
Entries 81
Mean −302
Std Dev 0

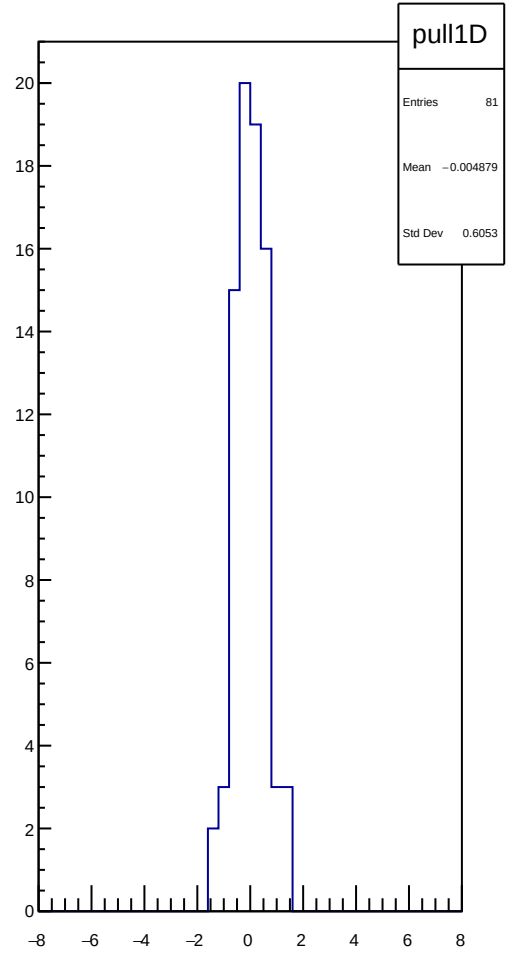

pull1D
Entries 81
Mean −0.01077
Std Dev 0.4804

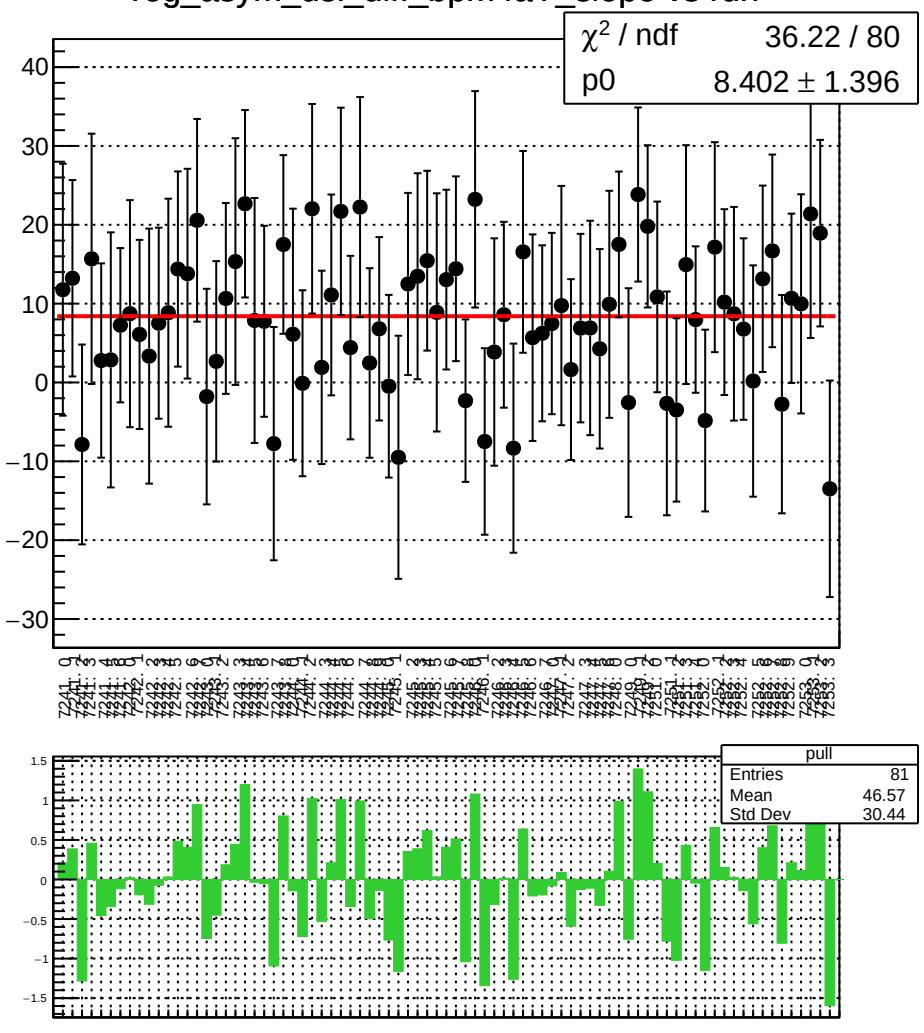

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 22.03 / 80
p0 45.64 ± 0.2122
pull
Entries 81
Mean 12.1
Std Dev 45.16
pull1D
Entries 81
Mean −0.03989
Std Dev 0.52

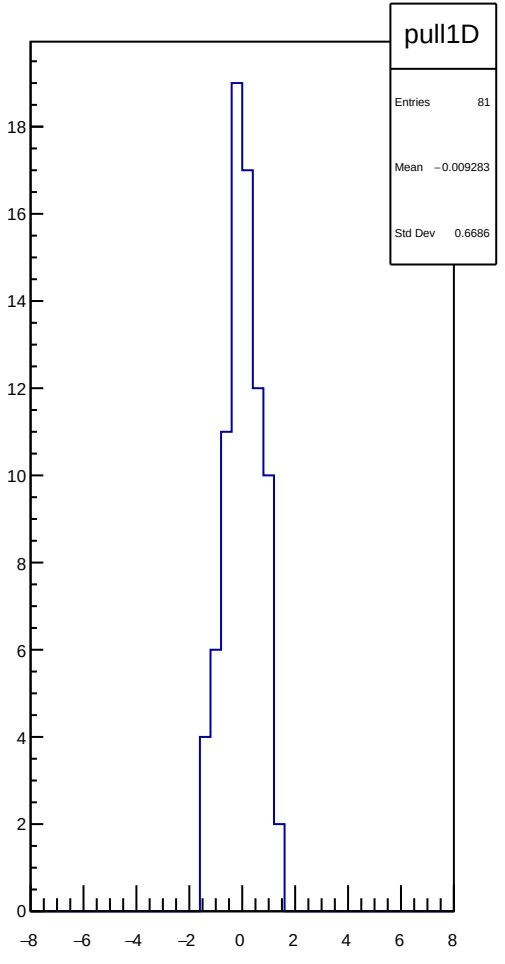

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 20.95 / 80
p0 0.245 ± 0.009517
pull
Entries 81
Mean −377.1
Std Dev 0

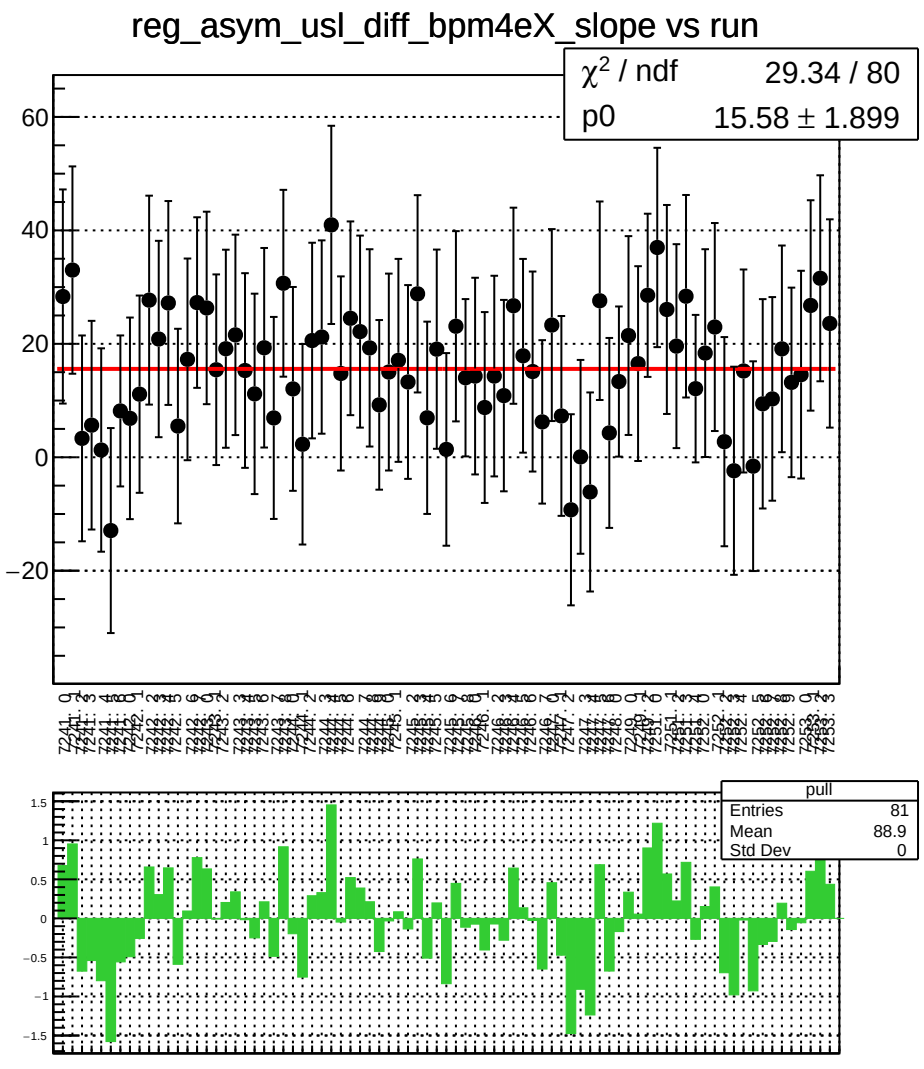

pull1D
Entries 81
Mean −0.01928
Std Dev 0.5082

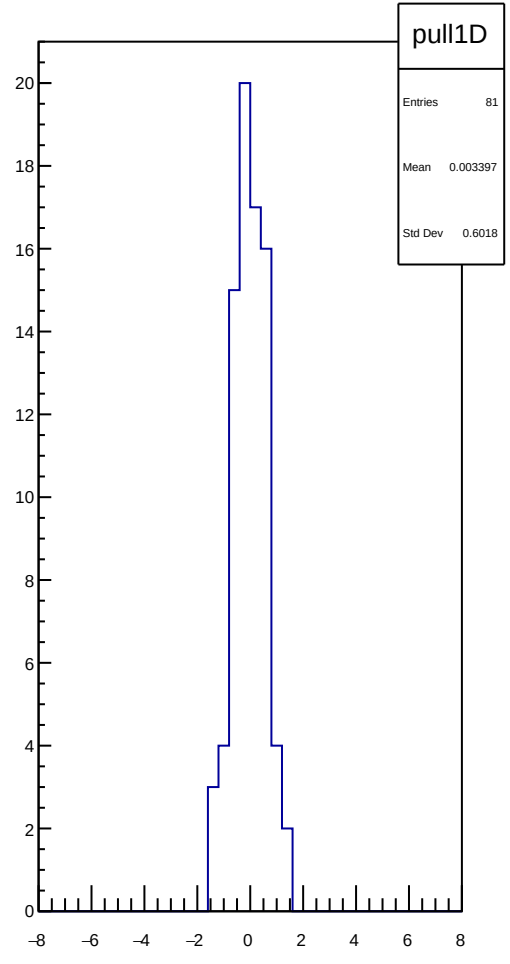

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 29.68 / 80
p0 −73.03 ± 1.829
−40
−60
−80
−100
−120
pull
Entries 81
Mean 239.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

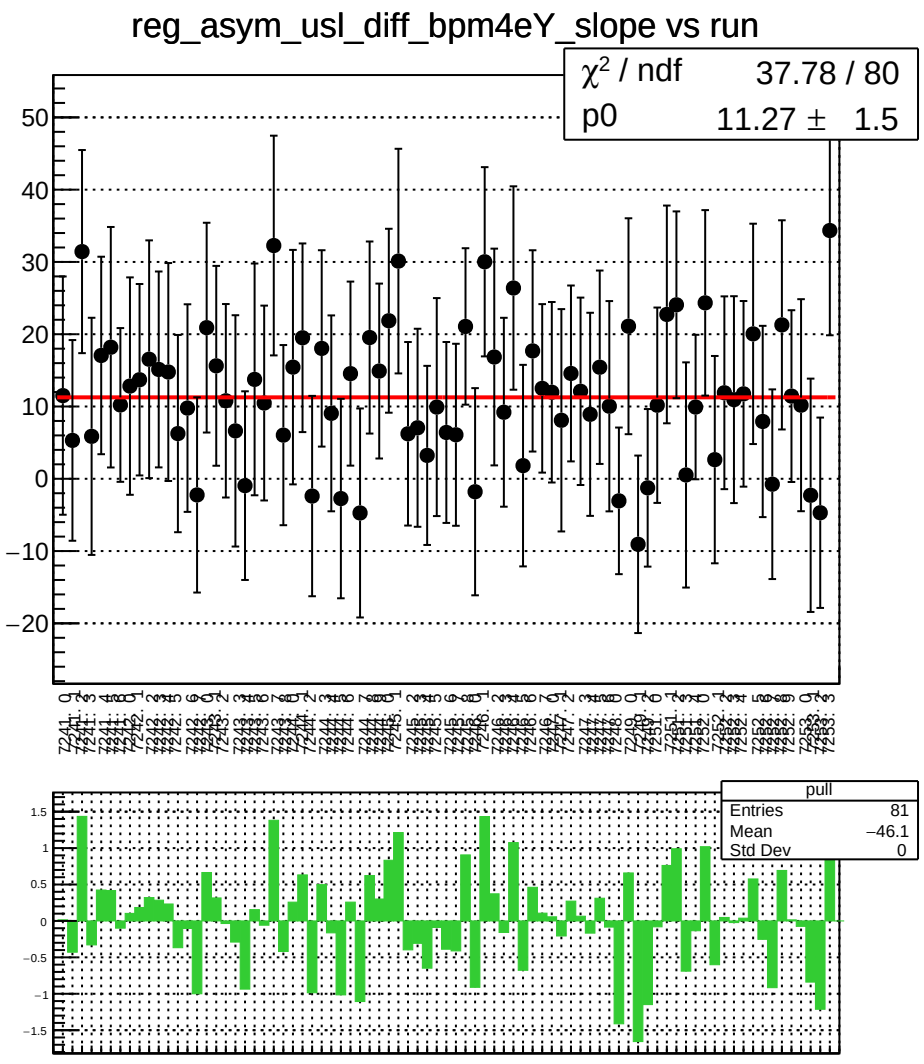

pull1D
Entries 81
Mean −0.004879
Std Dev 0.6053
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

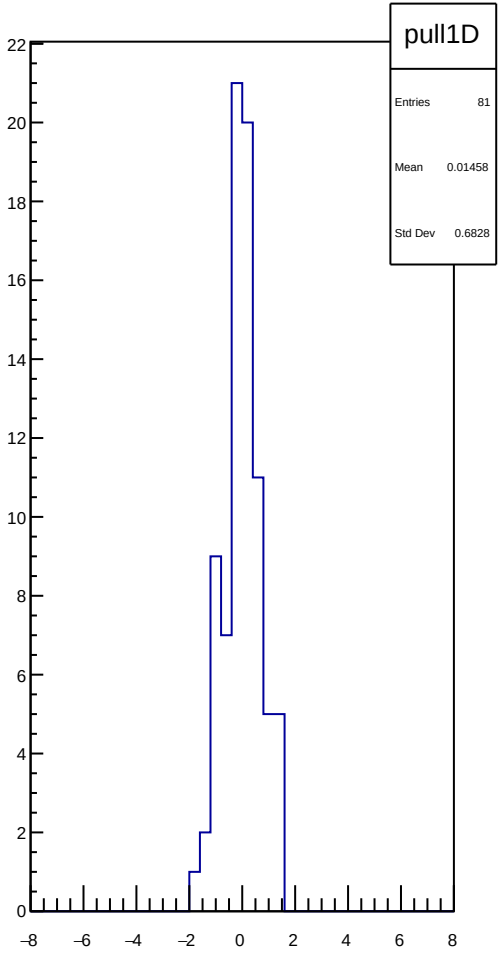

reg_asym_usl_diff_bpm4aY_slope vs run
χ^2 / ndf 36.22 / 80
p0 8.402 ± 1.396
pull
Entries 81
Mean 46.57
Std Dev 30.44

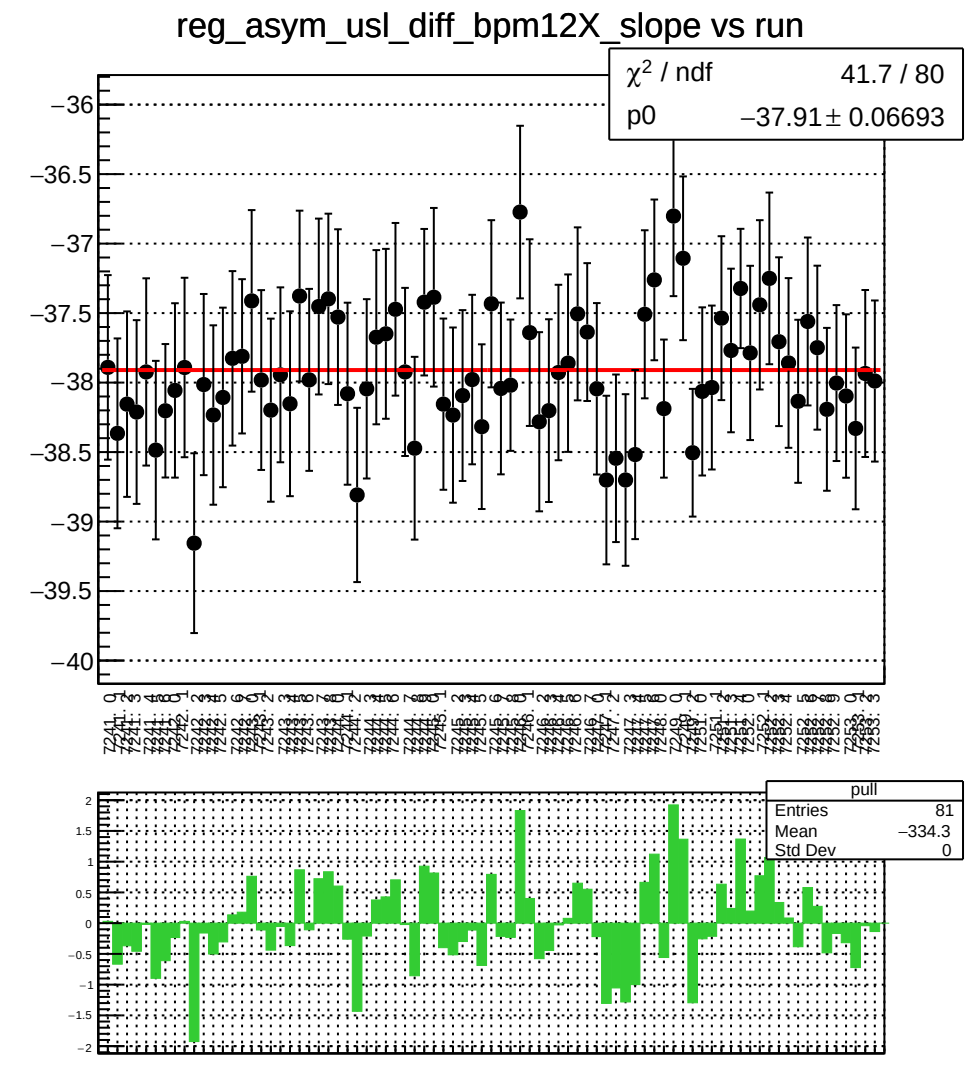

pull1D
Entries 81
Mean −0.009283
Std Dev 0.6686

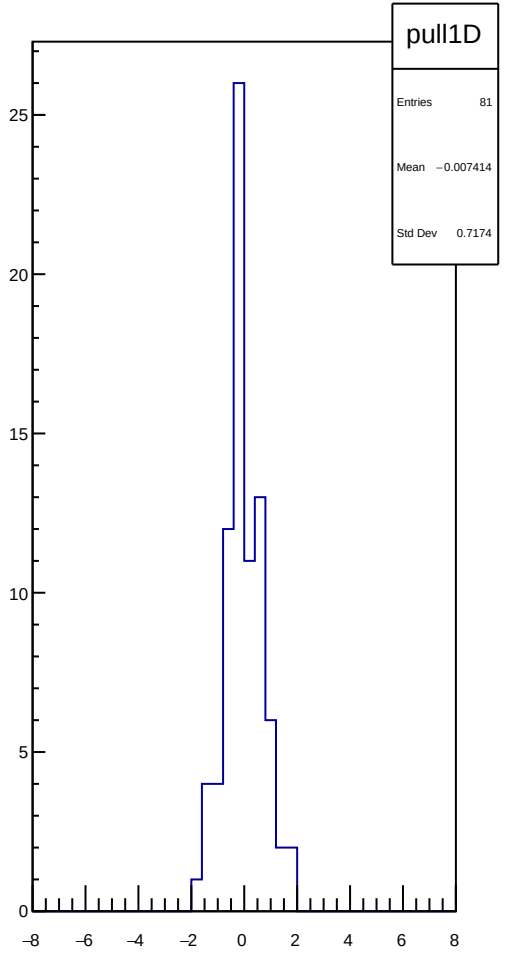

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 29.34 / 80
p0 15.58 ± 1.899
pull
Entries 81
Mean 88.9
Std Dev 0

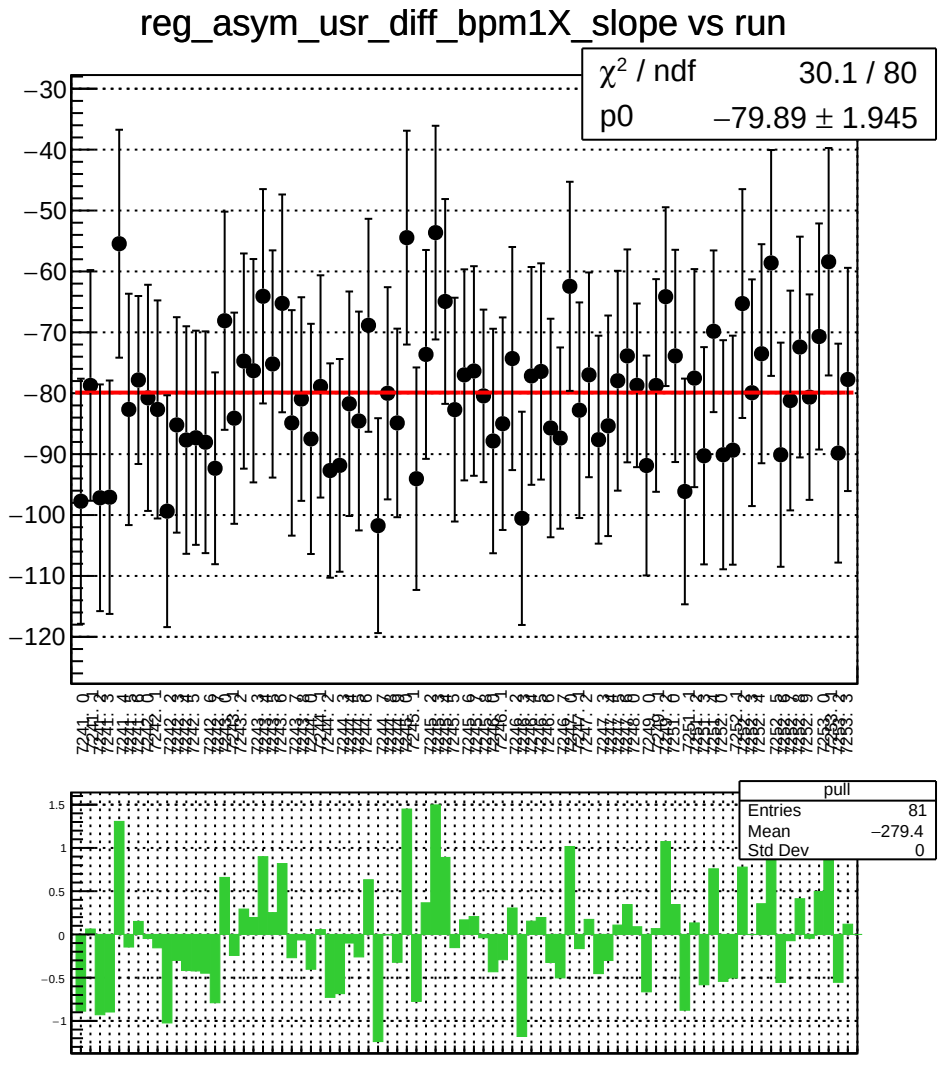

pull1D
Entries 81
Mean 0.003397
Std Dev 0.6018

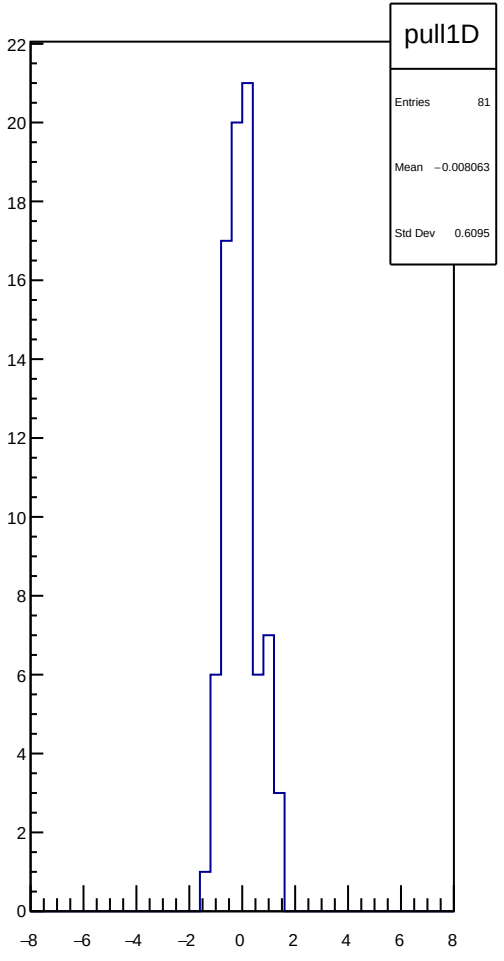

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 37.78 / 80
p0 11.27 ± 1.5
pull
Entries 81
Mean −46.1
Std Dev 0

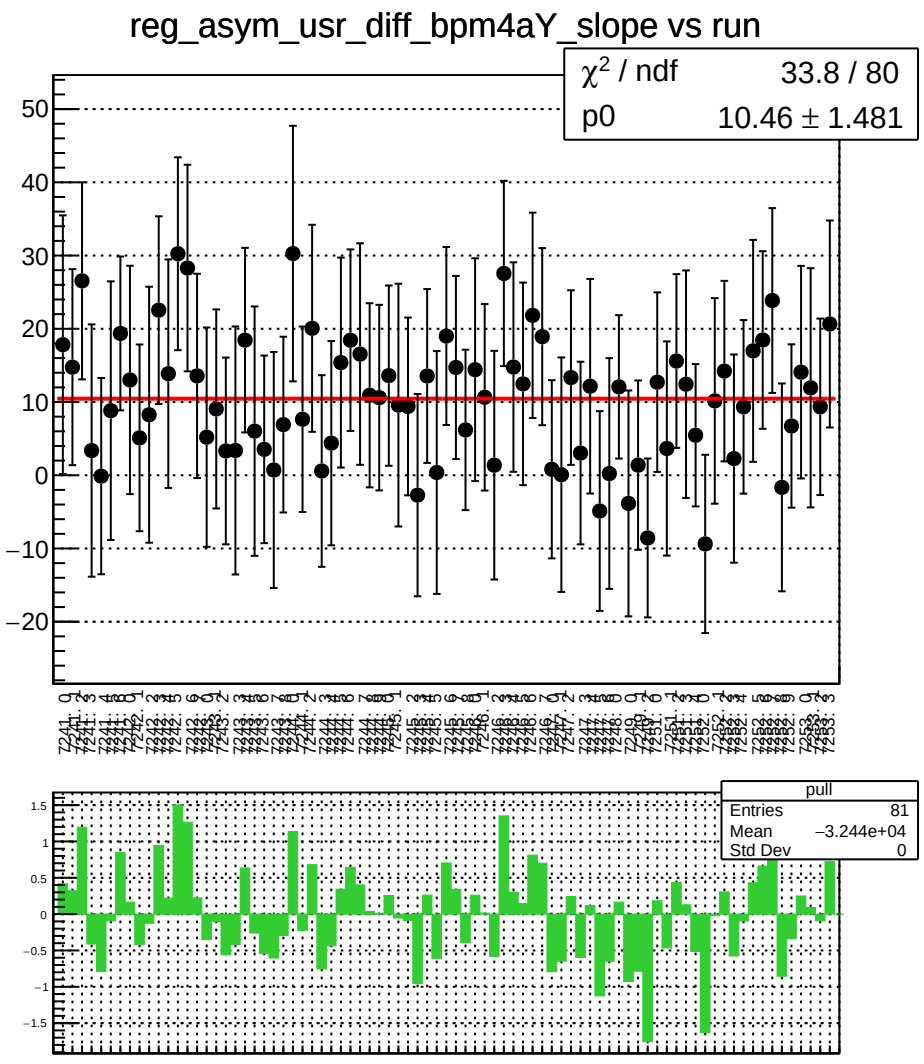

pull1D
Entries 81
Mean 0.01458
Std Dev 0.6828

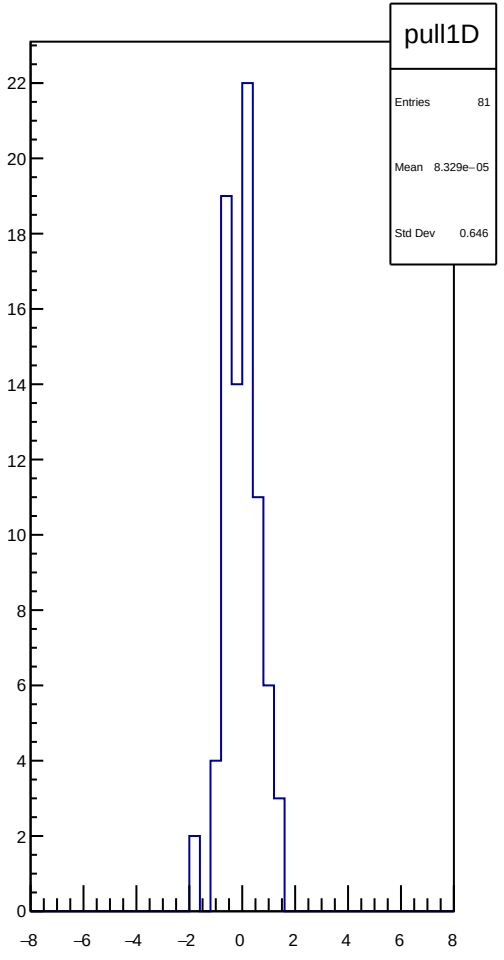

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 41.7 / 80
p0 −37.91 ± 0.06693
pull
Entries 81
Mean −334.3
Std Dev 0

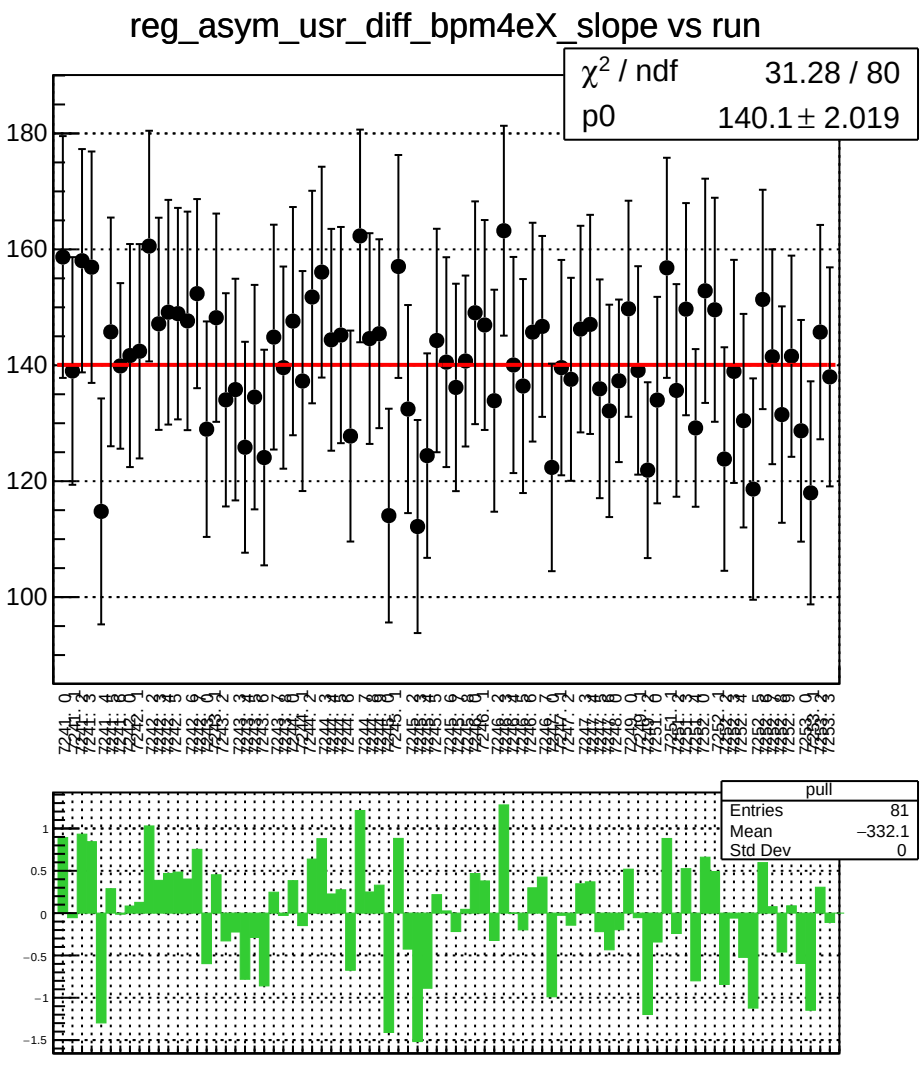

pull1D
Entries 81
Mean −0.007414
Std Dev 0.7174

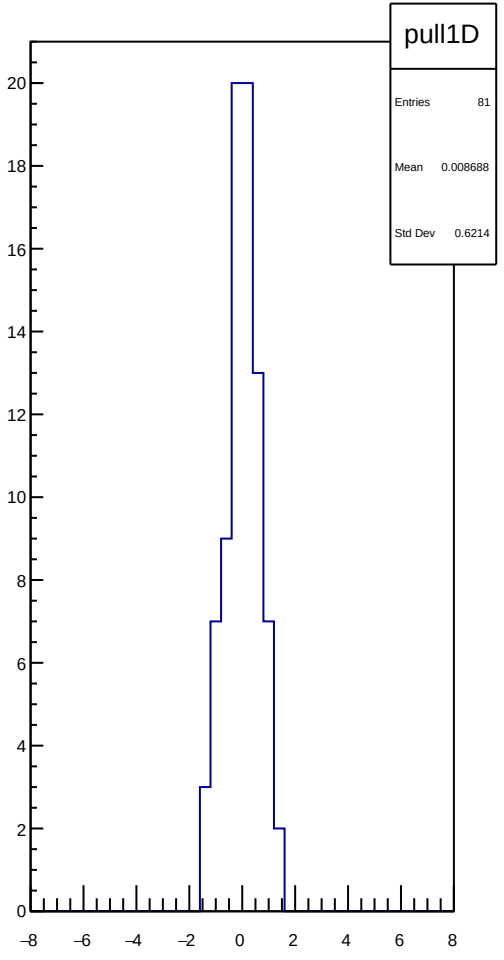

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 30.1 / 80
p0 −79.89 ± 1.945
pull
Entries 81
Mean −279.4
Std Dev 0

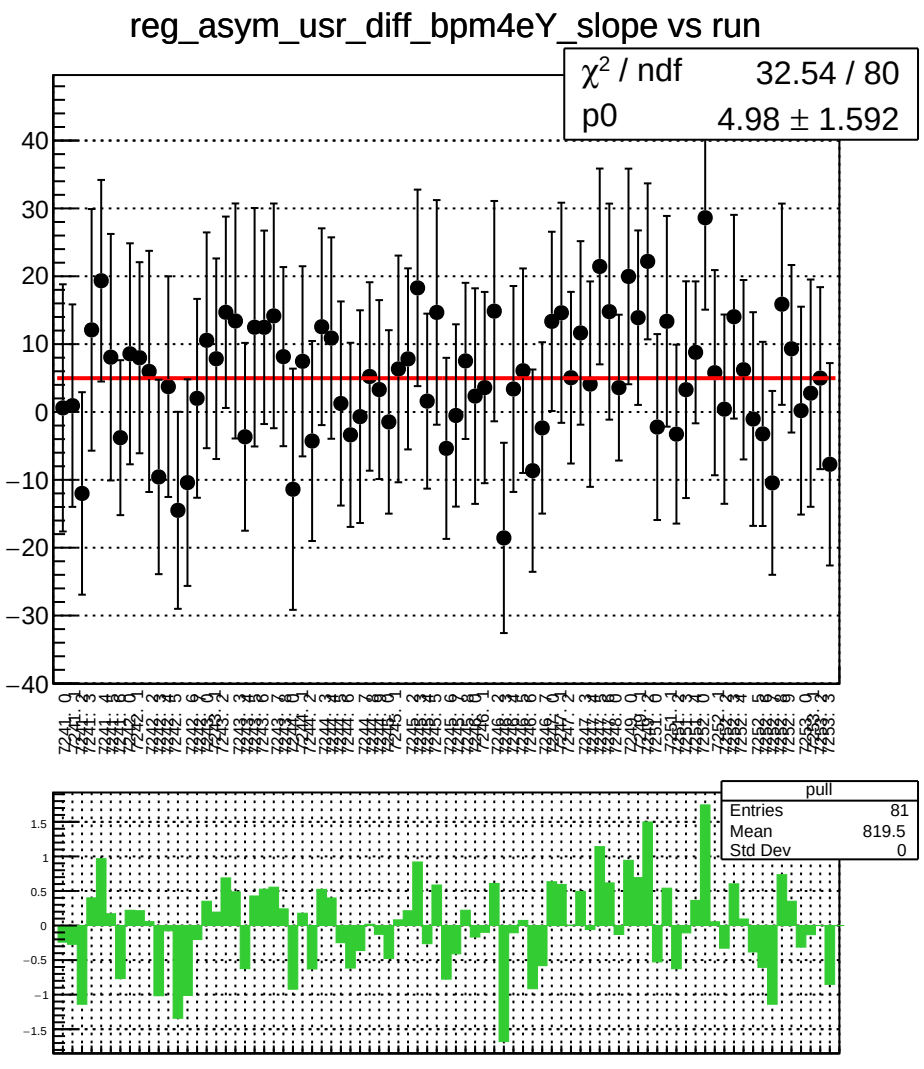

pull1D
Entries 81
Mean −0.008063
Std Dev 0.6095

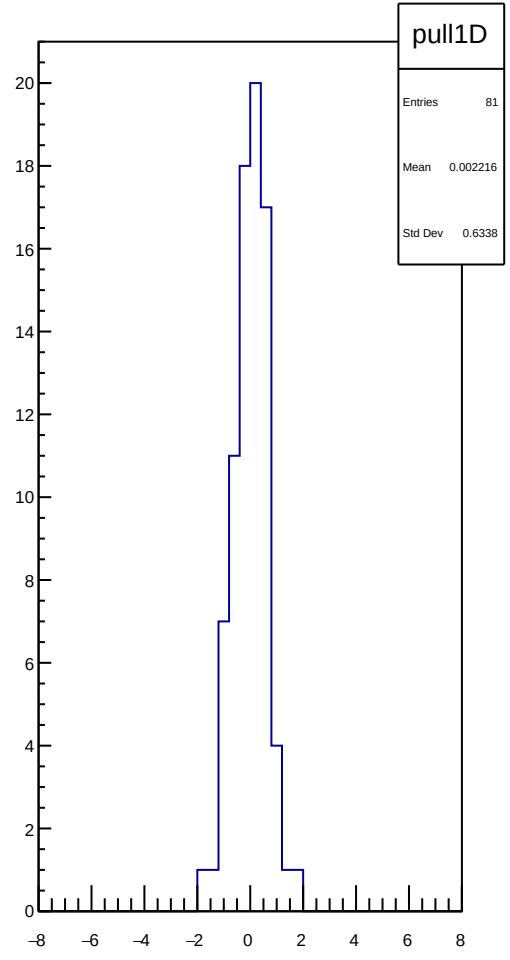

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 33.8 / 80
p0 10.46 ± 1.481
pull
Entries 81
Mean −3.244e+04
Std Dev 0

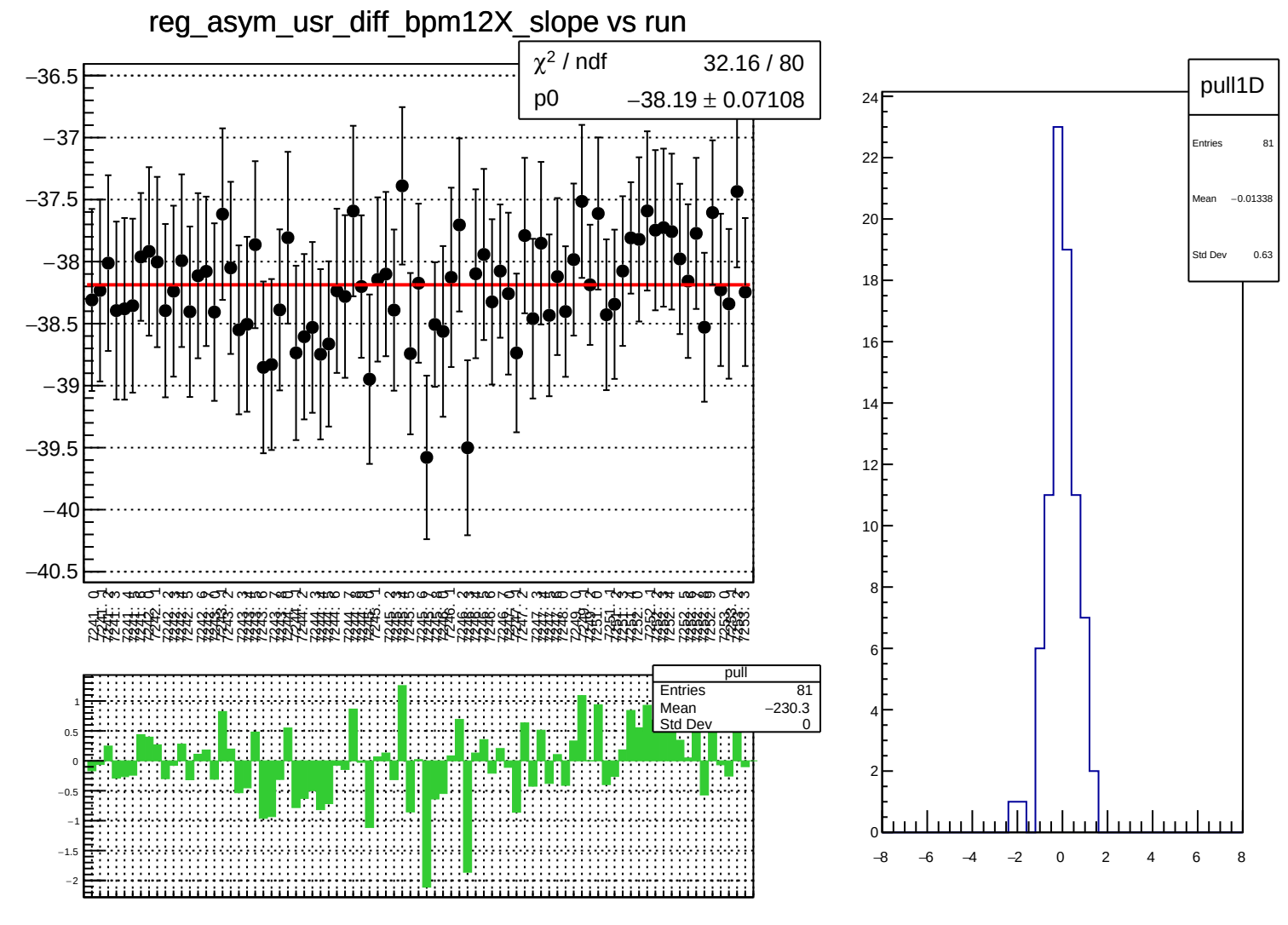

pull1D
Entries 81
Mean 8.329e−05
Std Dev 0.646

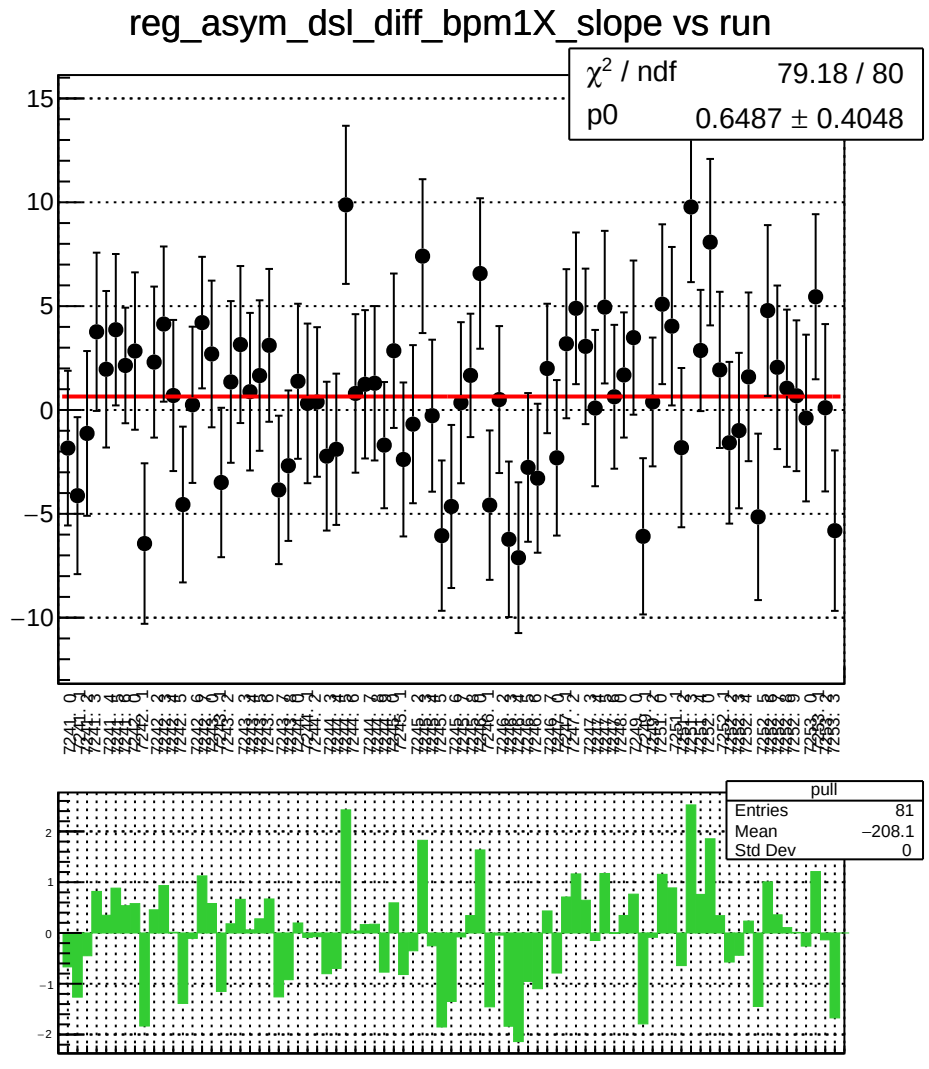

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 31.28 / 80
p0 140.1 ± 2.019
180
160
140
120
100
pull
Entries 81
Mean −332.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

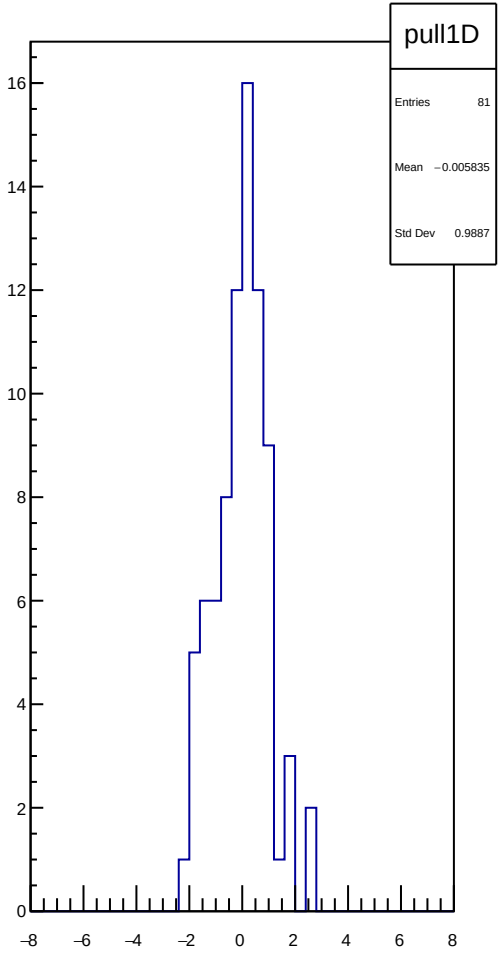

pull1D
Entries 81
Mean 0.008688
Std Dev 0.6214
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

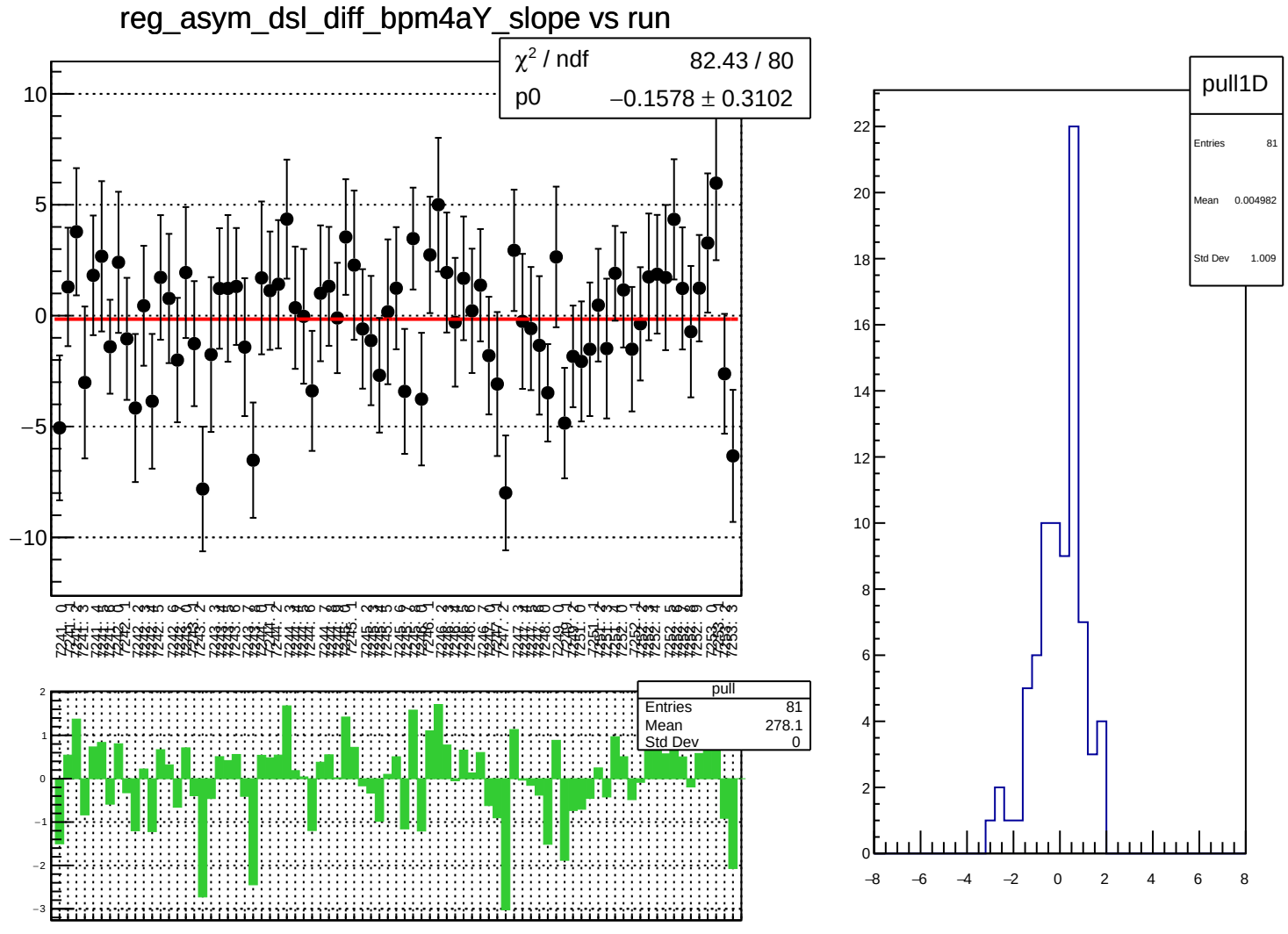

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 32.54 / 80
p0 4.98 ± 1.592
pull
Entries 81
Mean 819.5
Std Dev 0

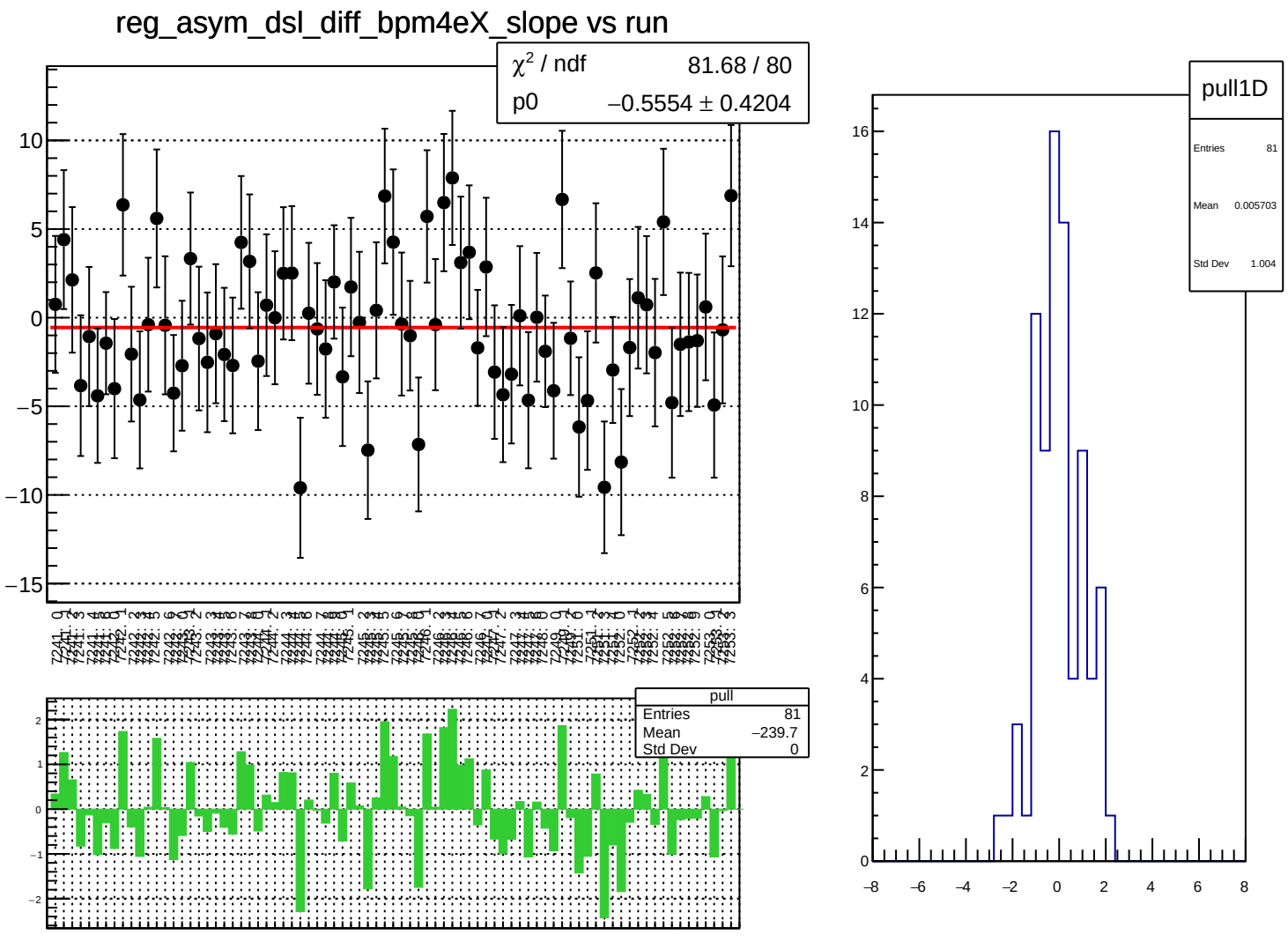

pull1D
Entries 81
Mean 0.002216
Std Dev 0.6338

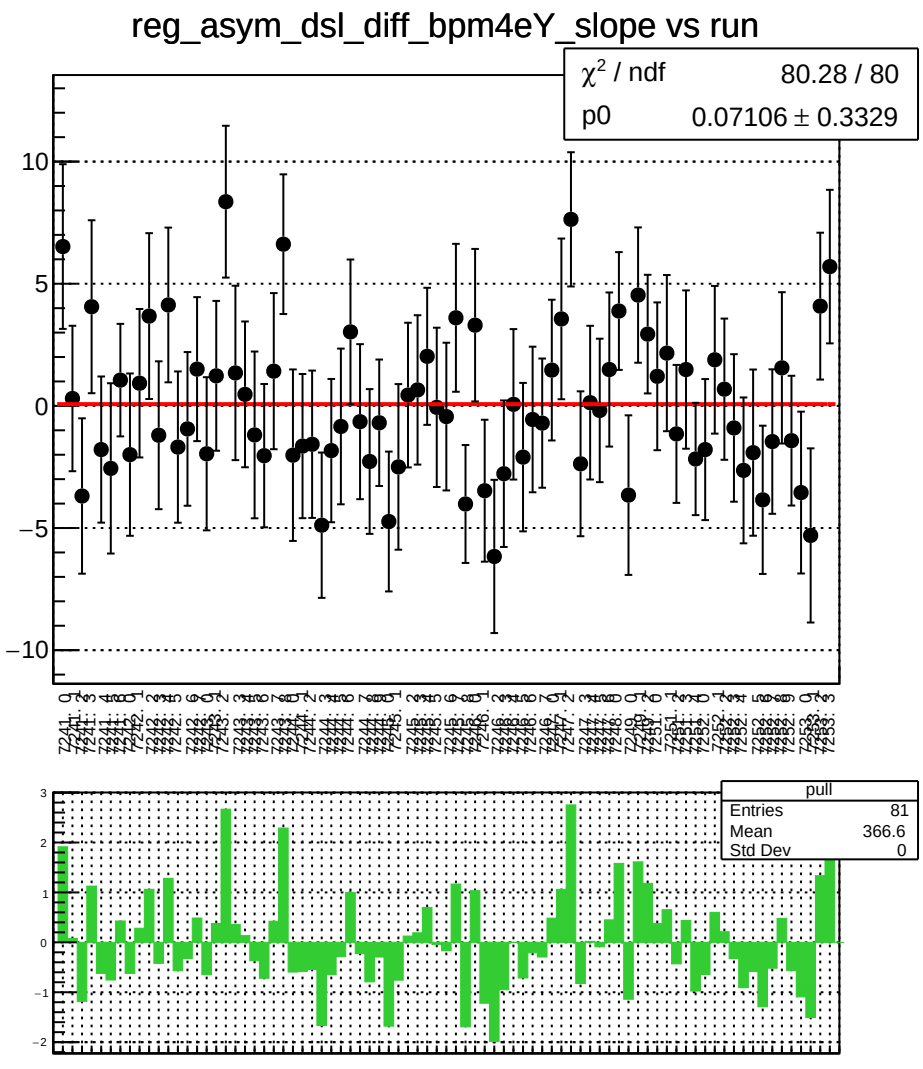

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 32.16 / 80
p0 −38.19 ± 0.07108
pull
Entries 81
Mean −230.3
Std Dev 0
pull1D
Entries 81
Mean −0.01338
Std Dev 0.63

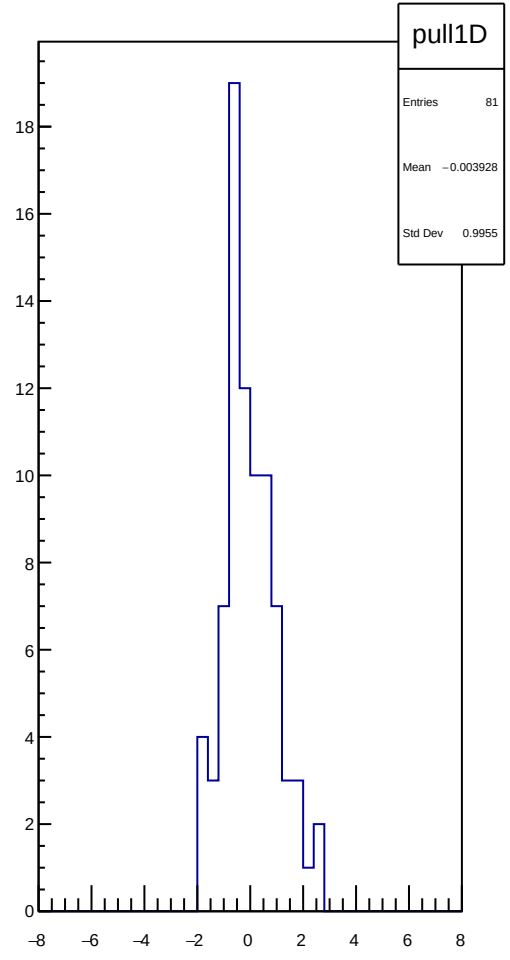

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 79.18 / 80
p0 0.6487 ± 0.4048
pull
Entries 81
Mean −208.1
Std Dev 0

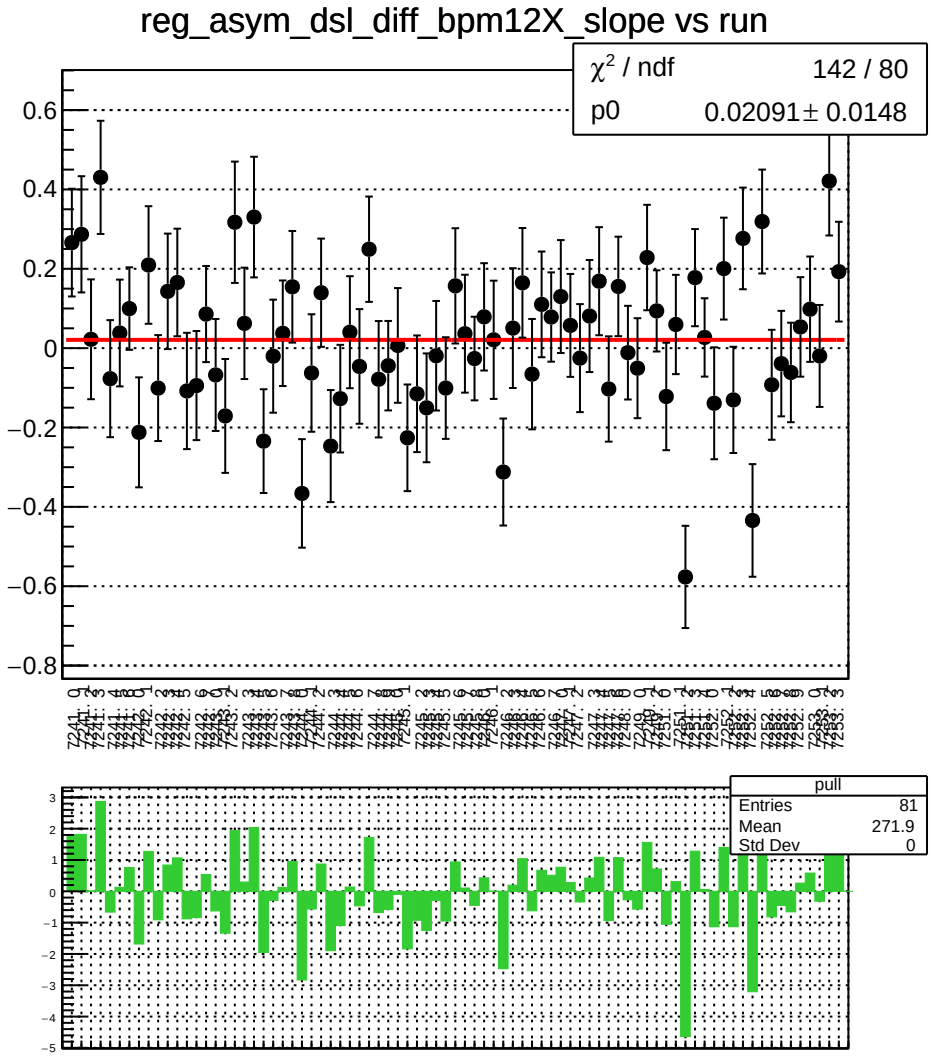

pull1D
Entries 81
Mean −0.005835
Std Dev 0.9887

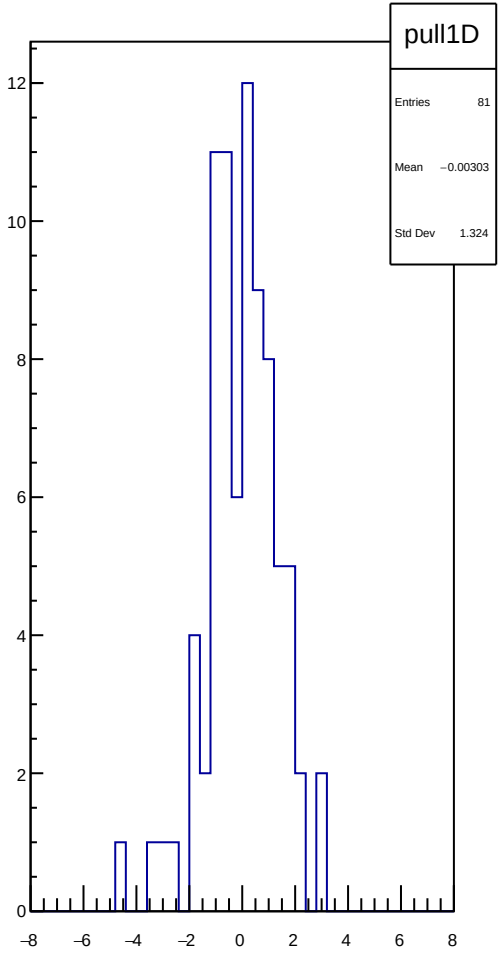

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 82.43 / 80
p0 −0.1578 ± 0.3102
pull
Entries 81
Mean 278.1
Std Dev 0
pull1D
Entries 81
Mean 0.004982
Std Dev 1.009

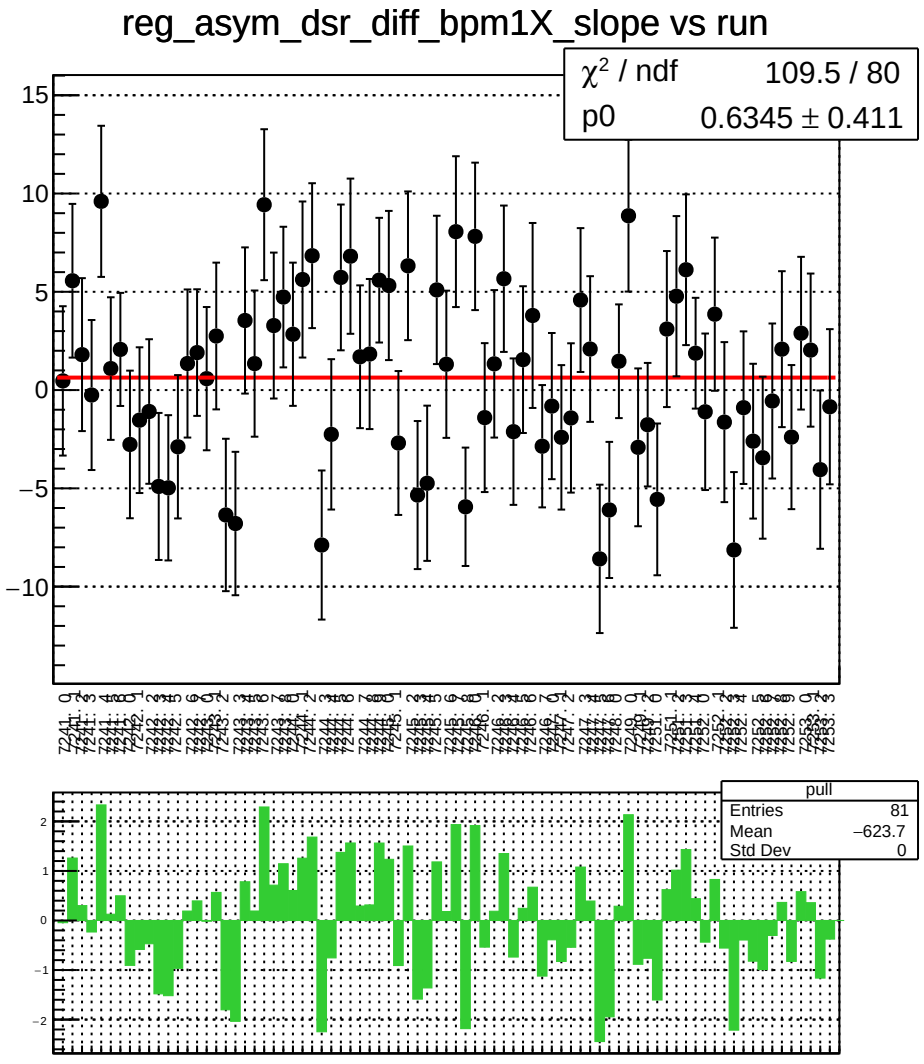

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 81.68 / 80
p0 −0.5554 ± 0.4204
pull
Entries 81
Mean −239.7
Std Dev 0
pull1D
Entries 81
Mean 0.005703
Std Dev 1.004

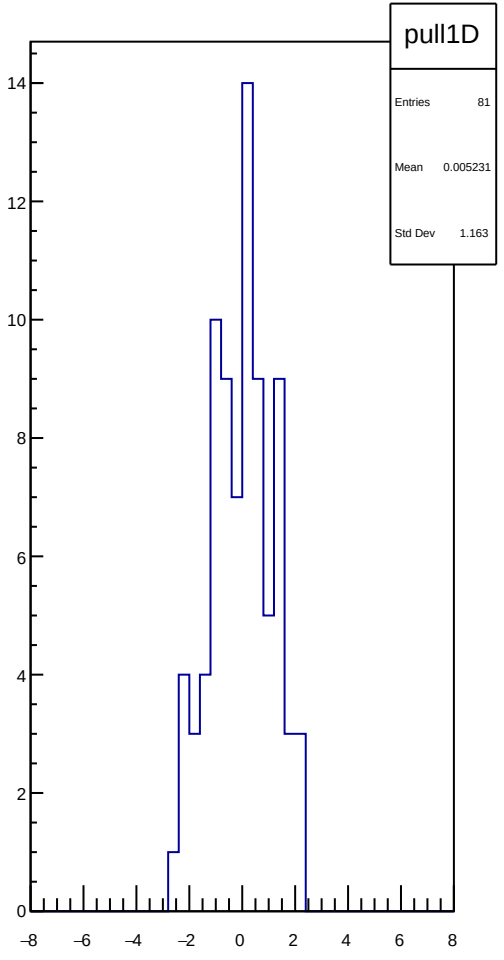

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 80.28 / 80
p0 0.07106 ± 0.3329
pull
Entries 81
Mean 366.6
Std Dev 0

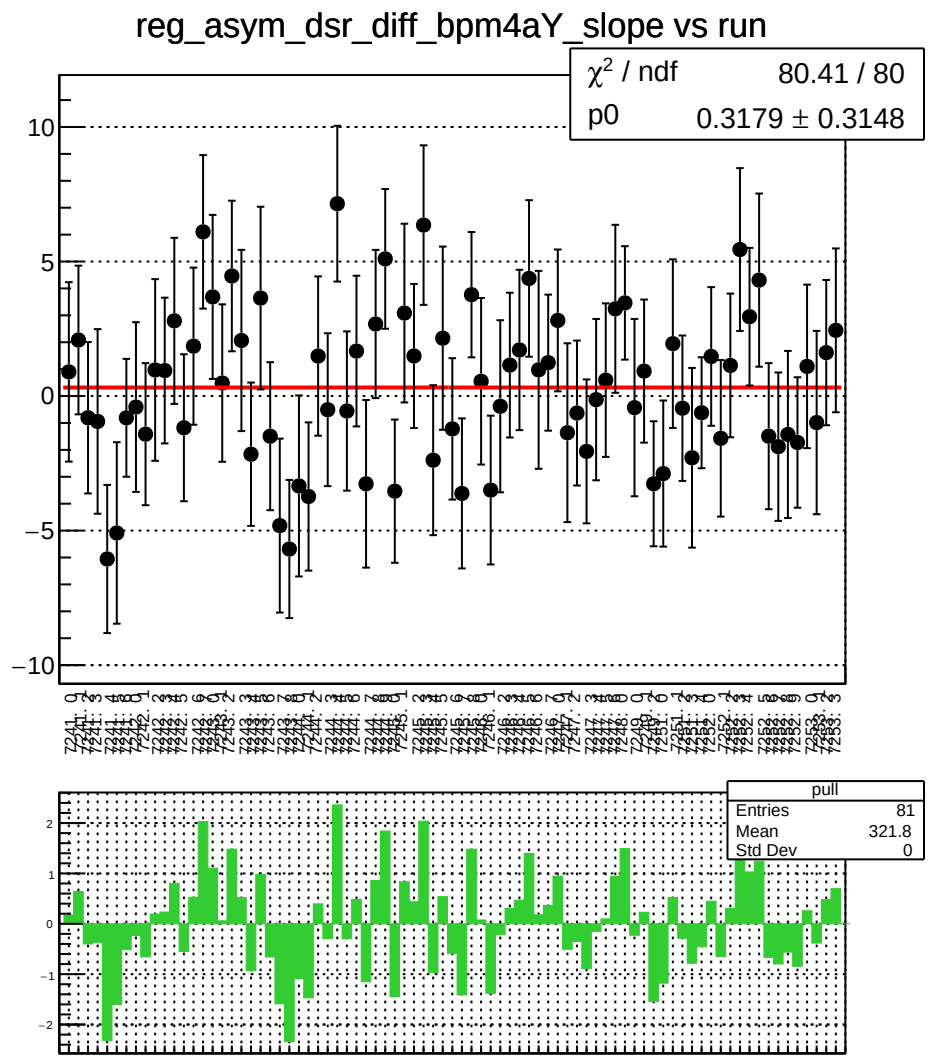

pull1D
Entries 81
Mean −0.003928
Std Dev 0.9955

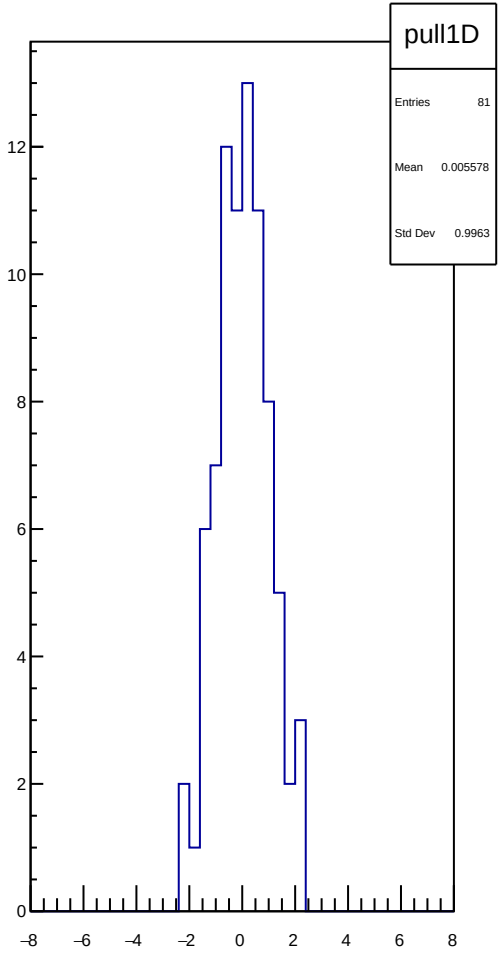

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 142 / 80
p0 0.02091 ± 0.0148
pull
Entries 81
Mean 271.9
Std Dev 0

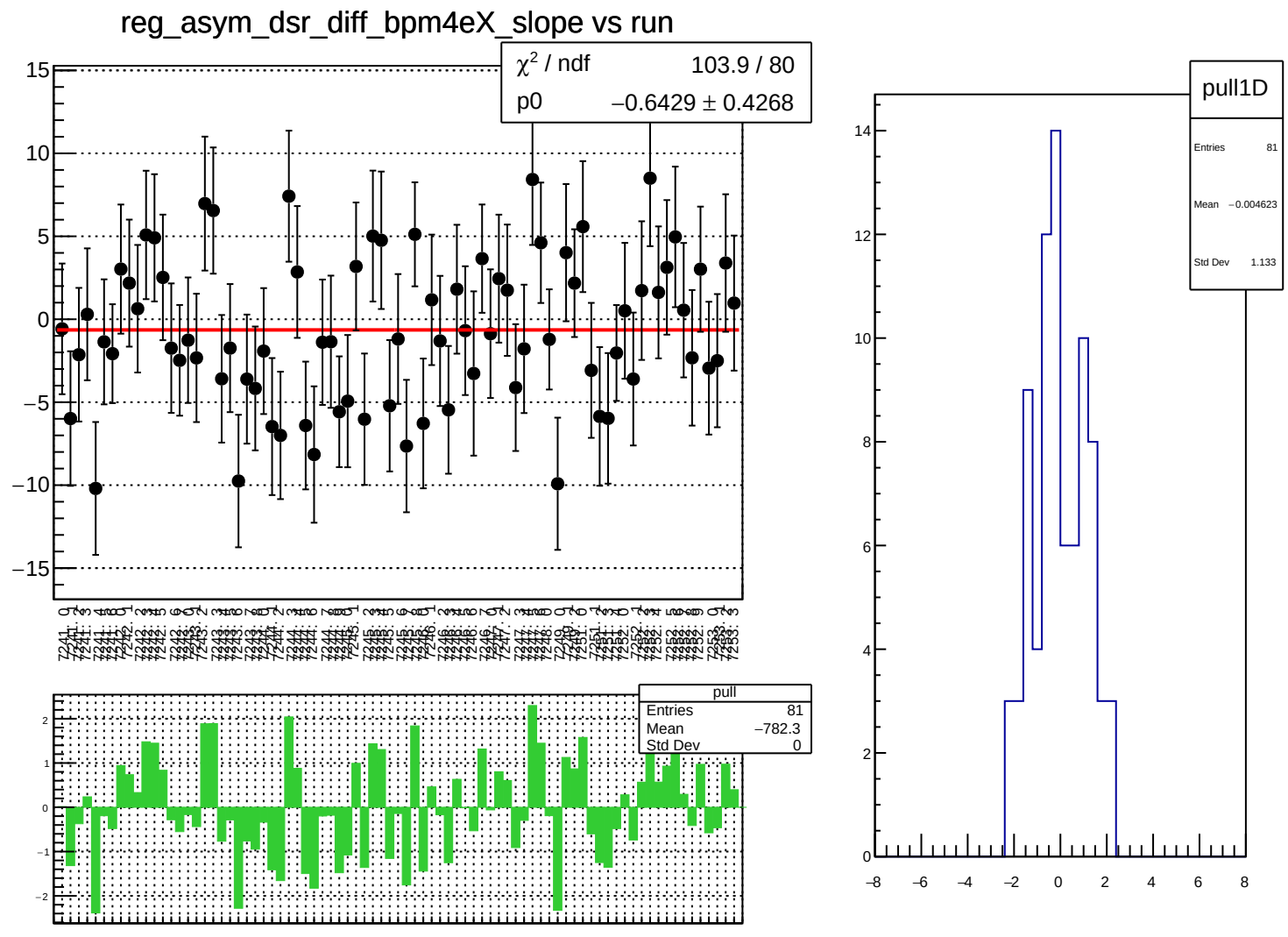

pull1D
Entries 81
Mean −0.00303
Std Dev 1.324

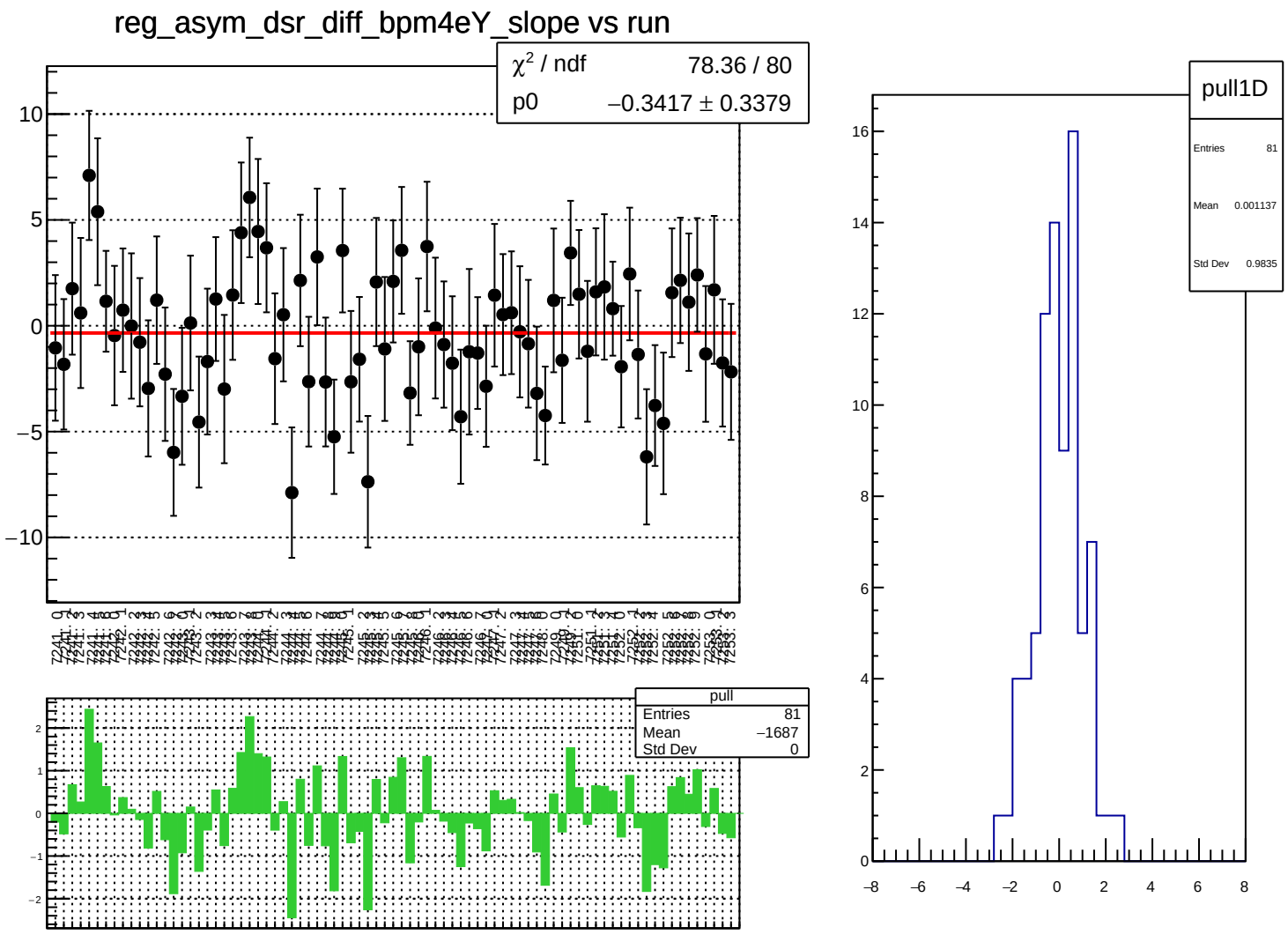

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 109.5 / 80
p0 0.6345 ± 0.411
pull
Entries 81
Mean −623.7
Std Dev 0

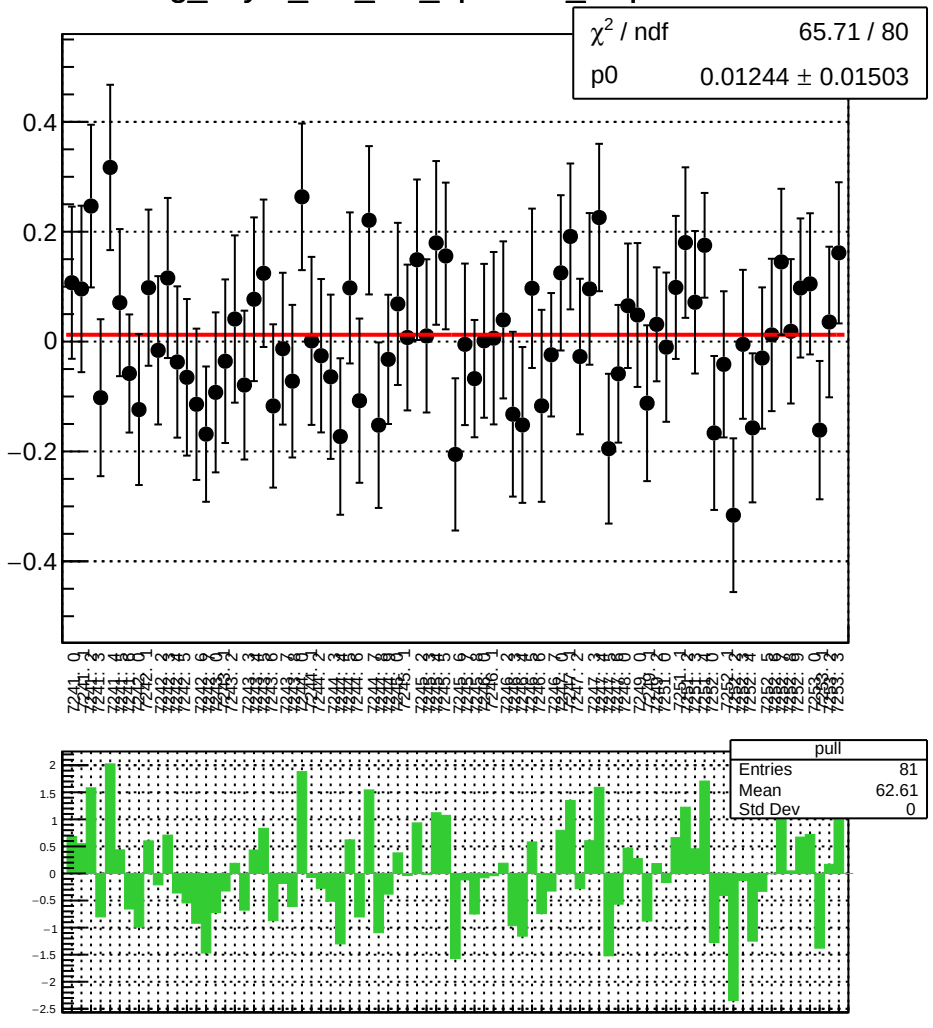

pull1D
Entries 81
Mean 0.005231
Std Dev 1.163

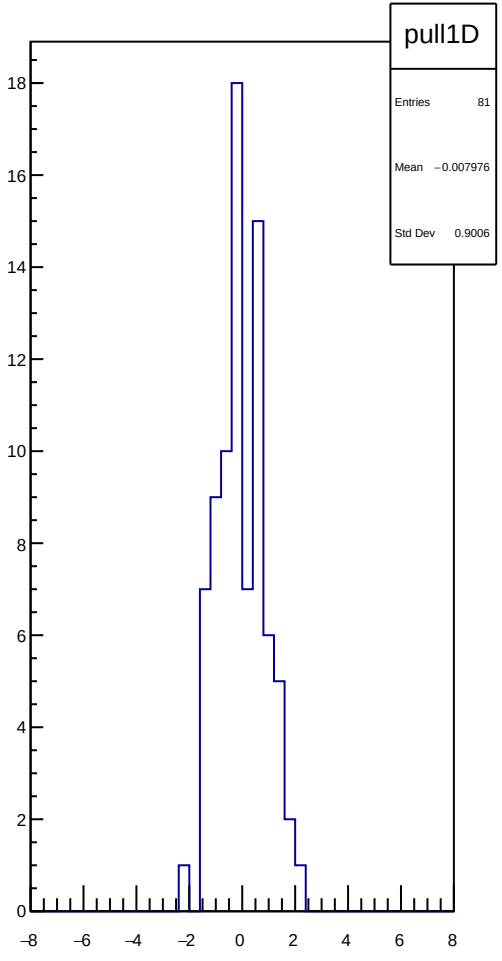

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 80.41 / 80
p0 0.3179 ± 0.3148
pull
Entries 81
Mean 321.8
Std Dev 0

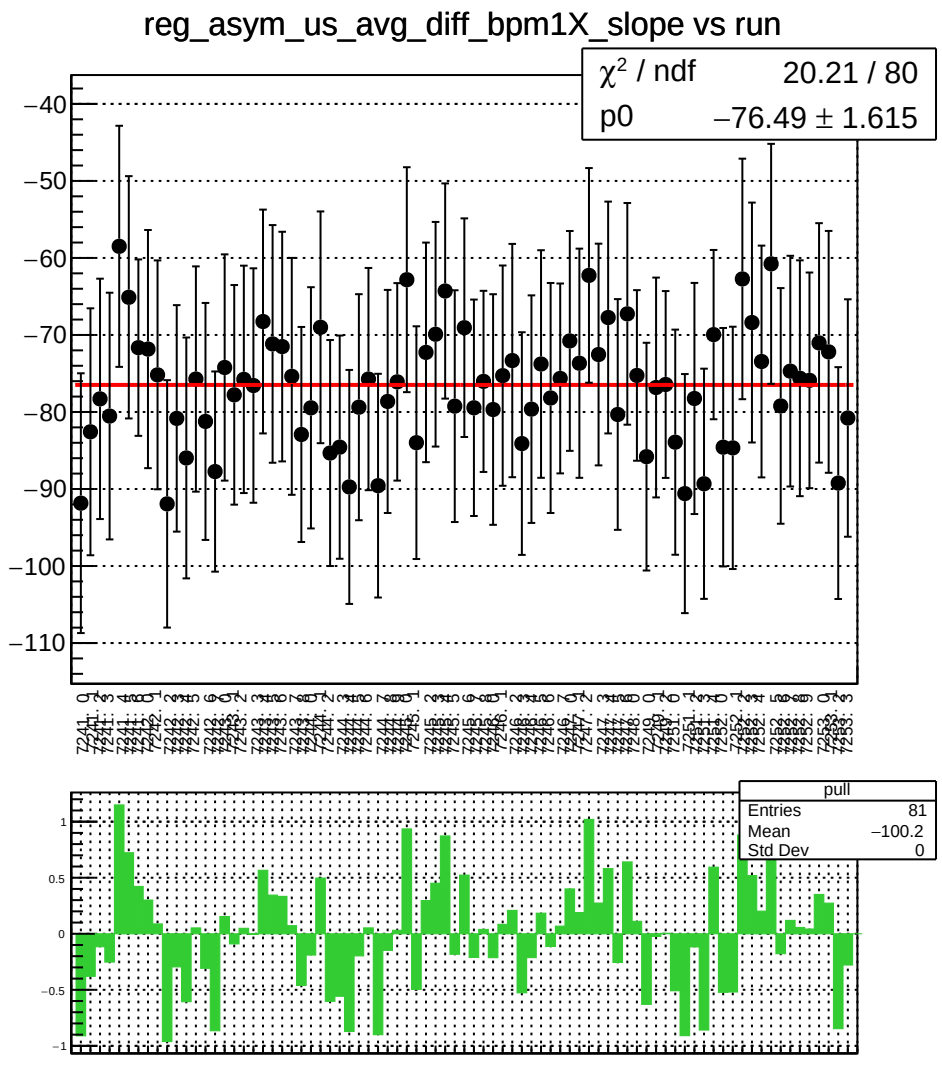

pull1D
Entries 81
Mean 0.005578
Std Dev 0.9963

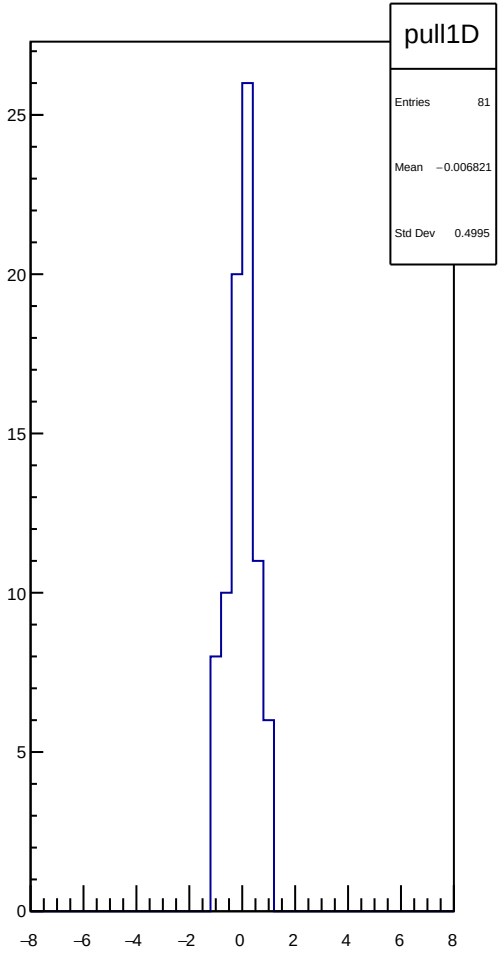

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 103.9 / 80
p0 −0.6429 ± 0.4268
pull
Entries 81
Mean −782.3
Std Dev 0
pull1D
Entries 81
Mean −0.004623
Std Dev 1.133

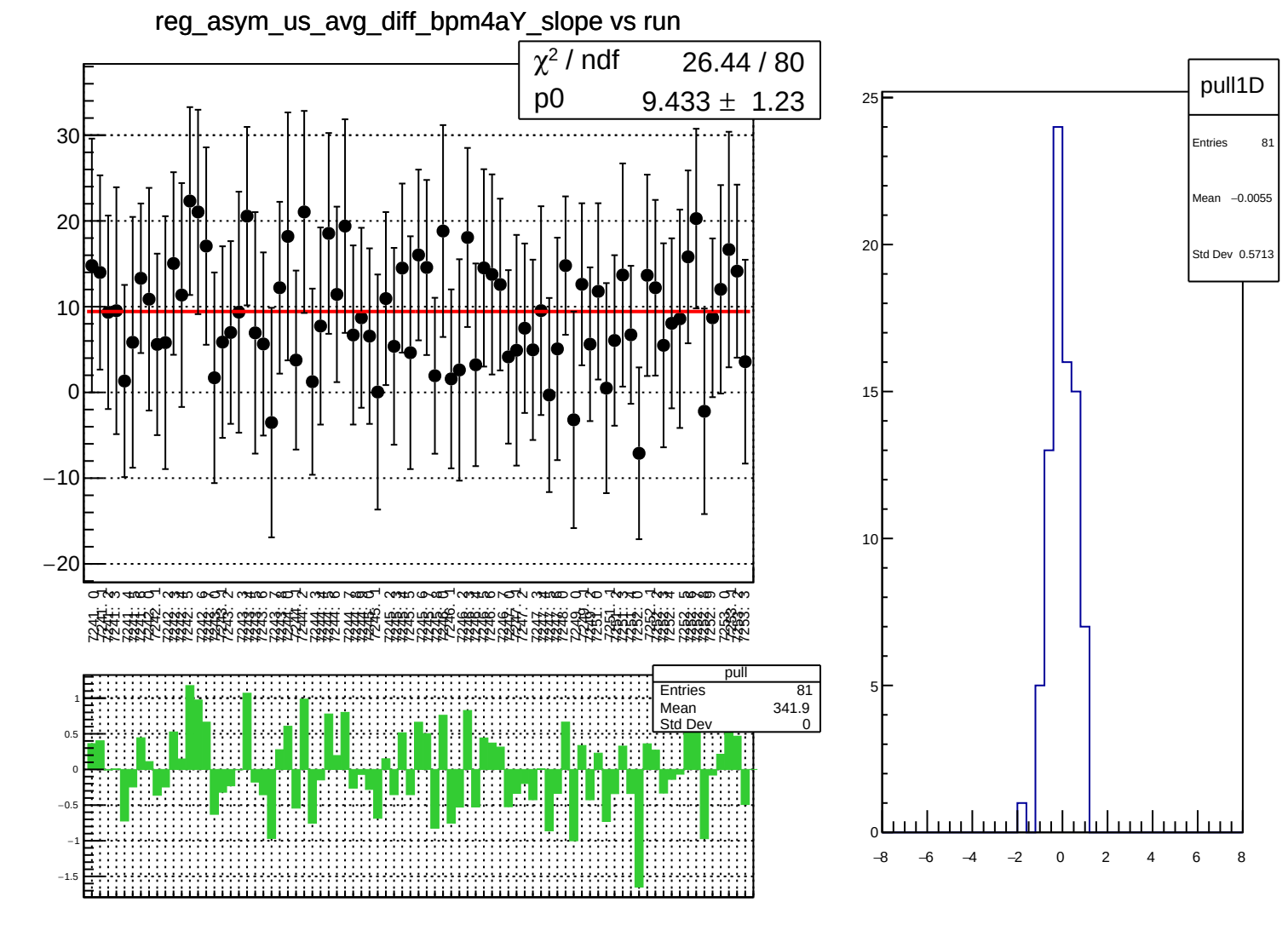

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 78.36 / 80
p0 −0.3417 ± 0.3379
pull
Entries 81
Mean −1687
Std Dev 0
pull1D
Entries 81
Mean 0.001137
Std Dev 0.9835

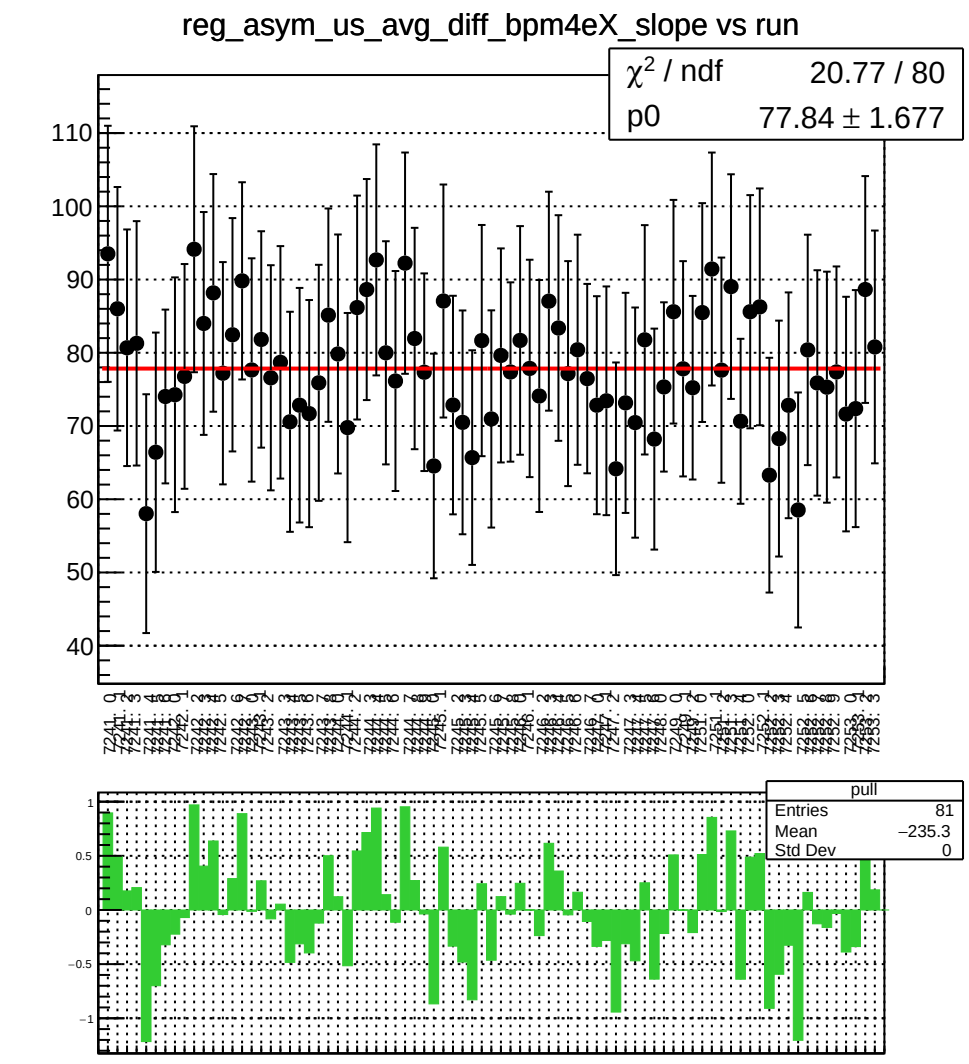

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 65.71 / 80
p0 0.01244 ± 0.01503
pull
Entries 81
Mean 62.61
Std Dev 0

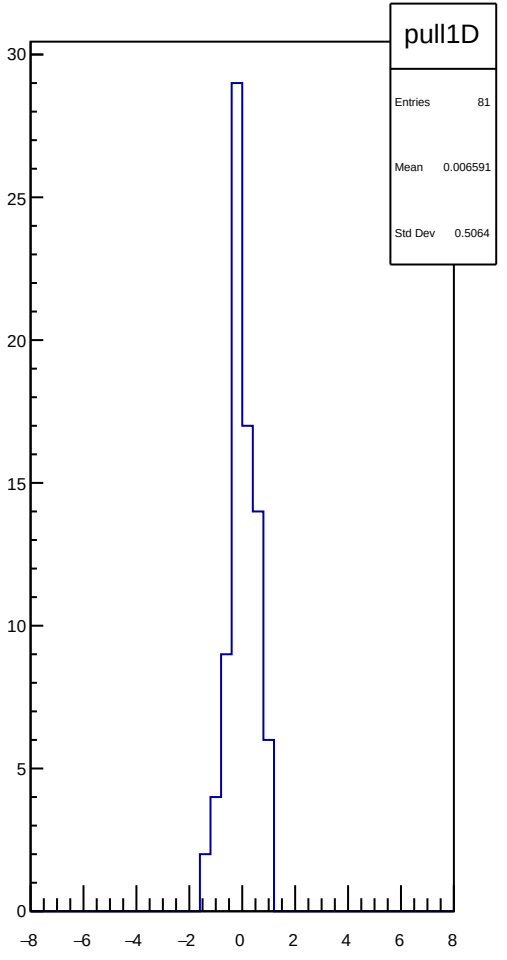

pull1D
Entries 81
Mean −0.007976
Std Dev 0.9006

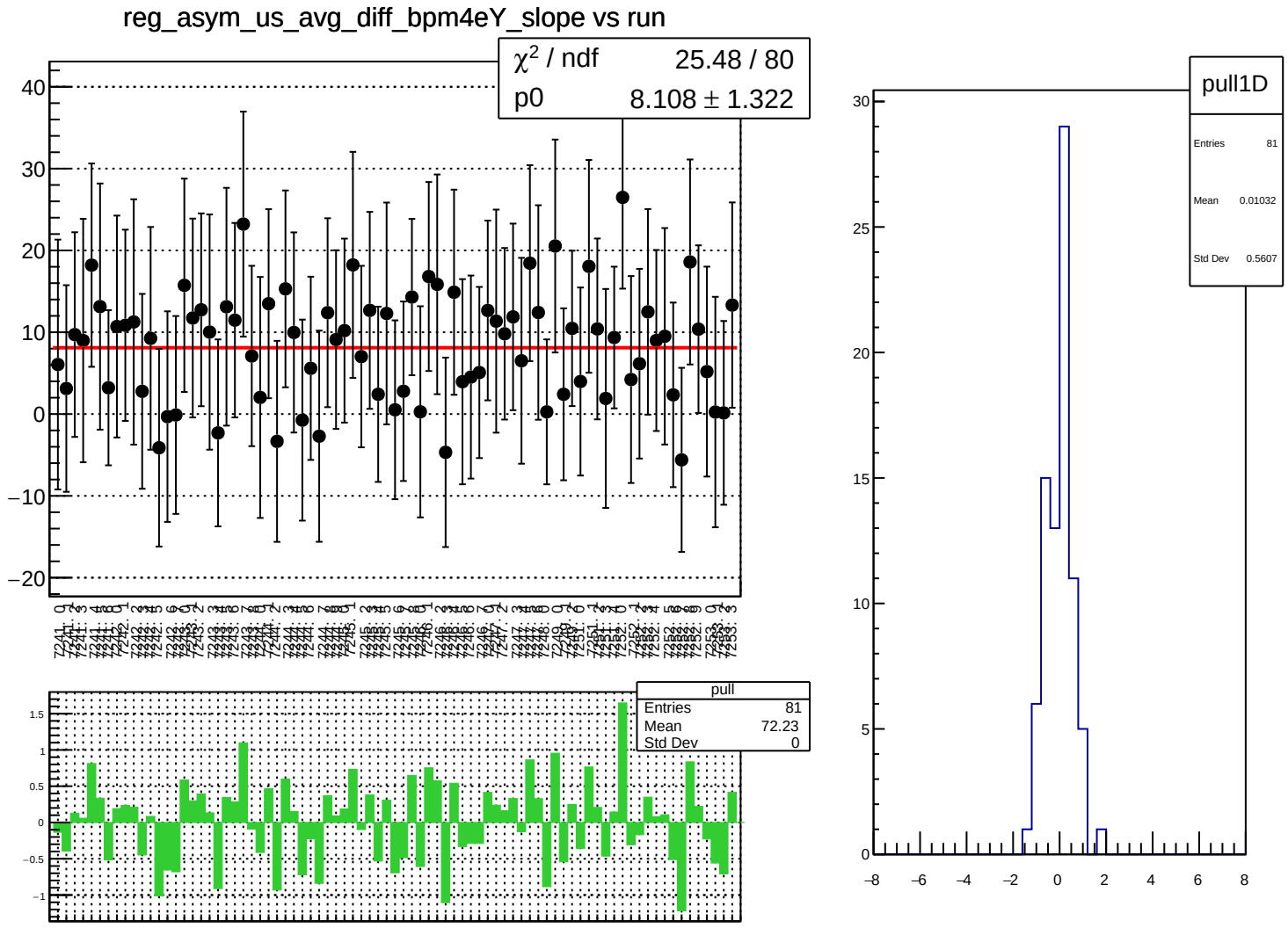

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 20.21 / 80
p0 −76.49 ± 1.615
pull
Entries 81
Mean −100.2
Std Dev 0

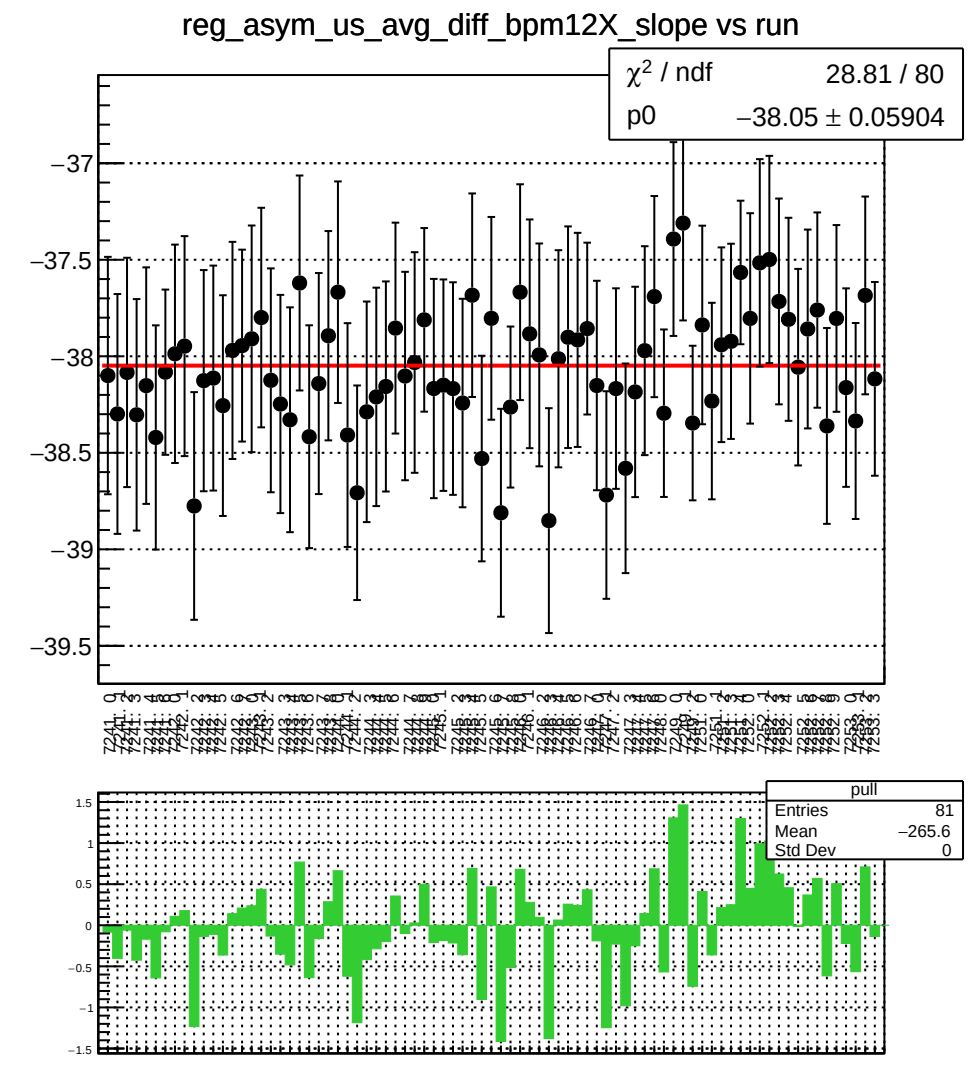

pull1D
Entries 81
Mean −0.006821
Std Dev 0.4995

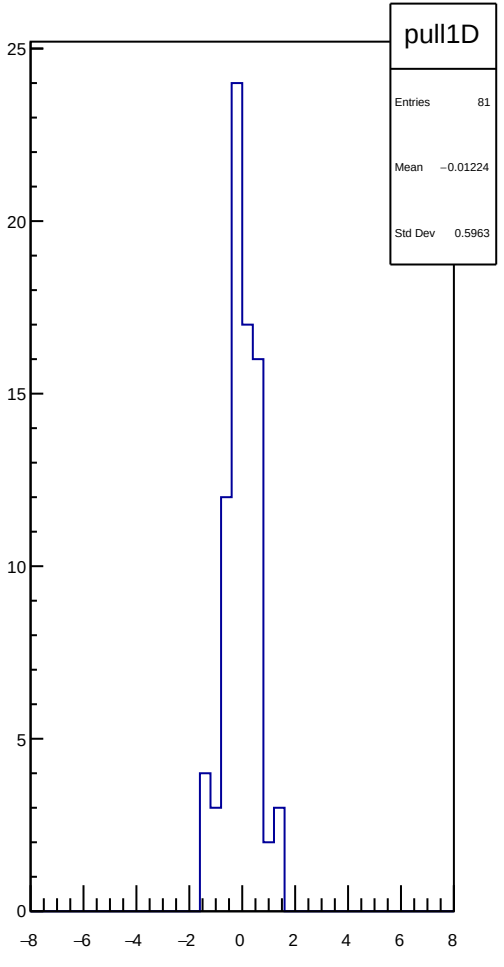

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 26.44 / 80
p0 9.433 ± 1.23
pull
Entries 81
Mean 341.9
Std Dev 0
pull1D
Entries 81
Mean −0.0055
Std Dev 0.5713

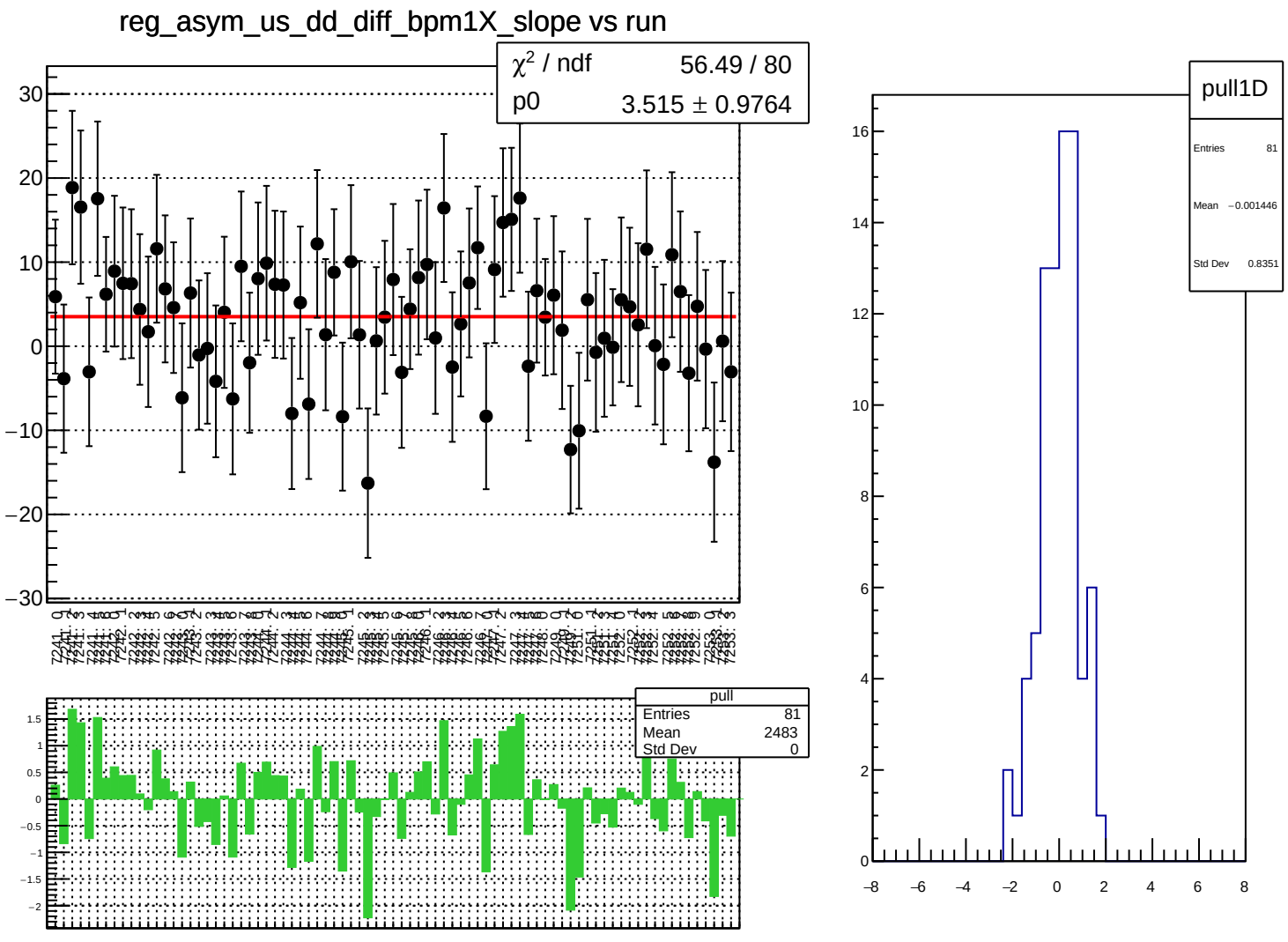

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 20.77 / 80
p0 77.84 ± 1.677
pull
Entries 81
Mean −235.3
Std Dev 0

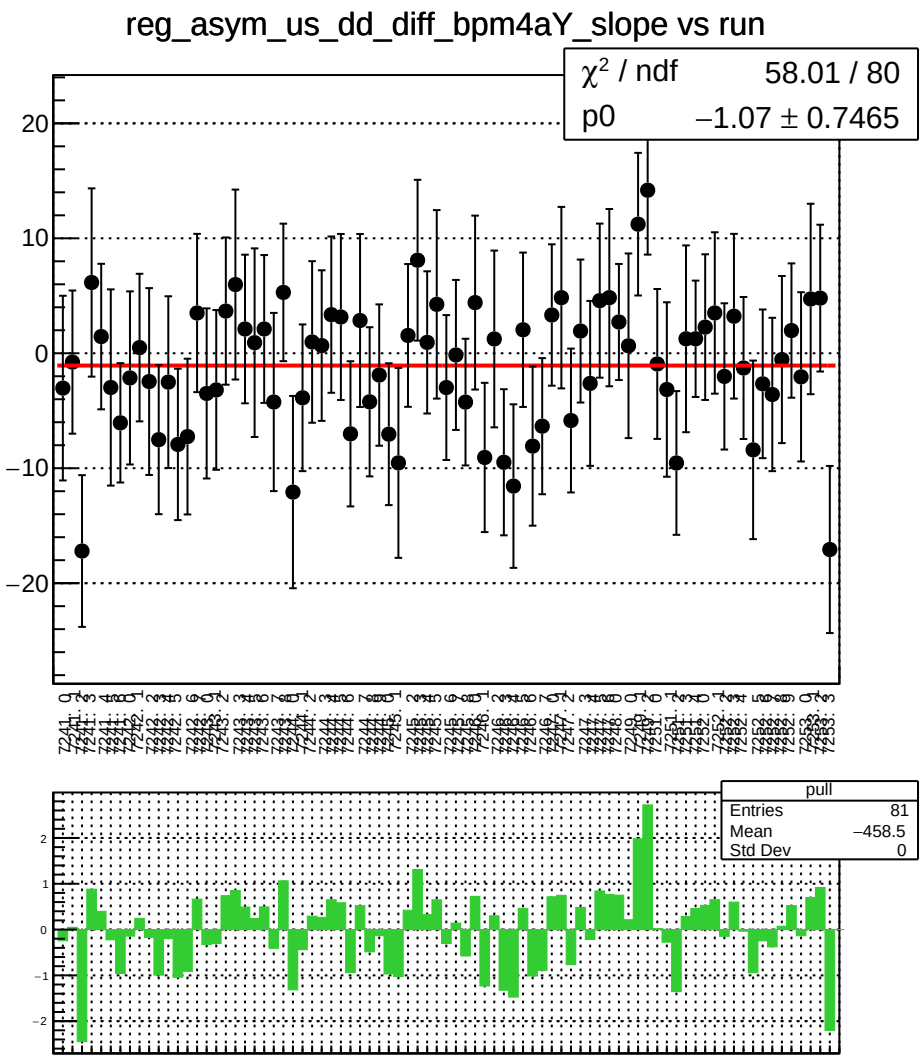

pull1D
Entries 81
Mean 0.006591
Std Dev 0.5064

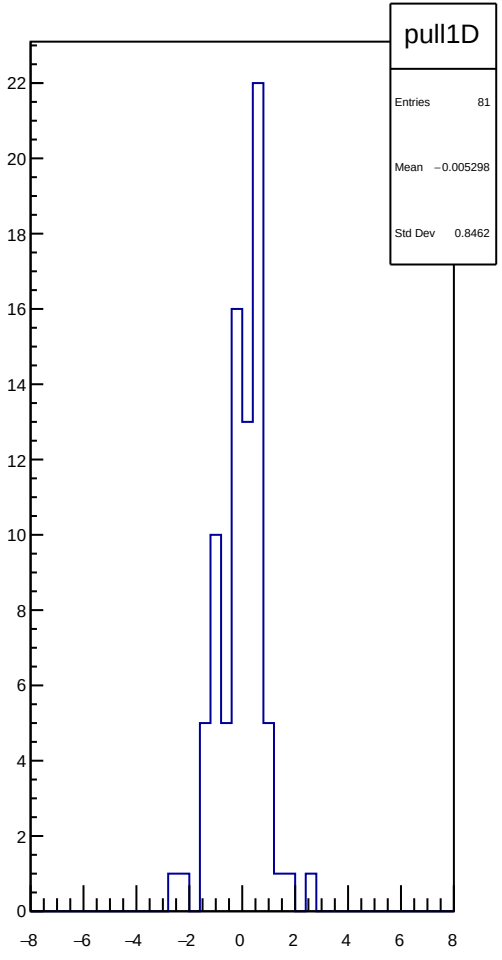

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 25.48 / 80
p0 8.108 ± 1.322
pull
Entries 81
Mean 72.23
Std Dev 0
pull1D
Entries 81
Mean 0.01032
Std Dev 0.5607

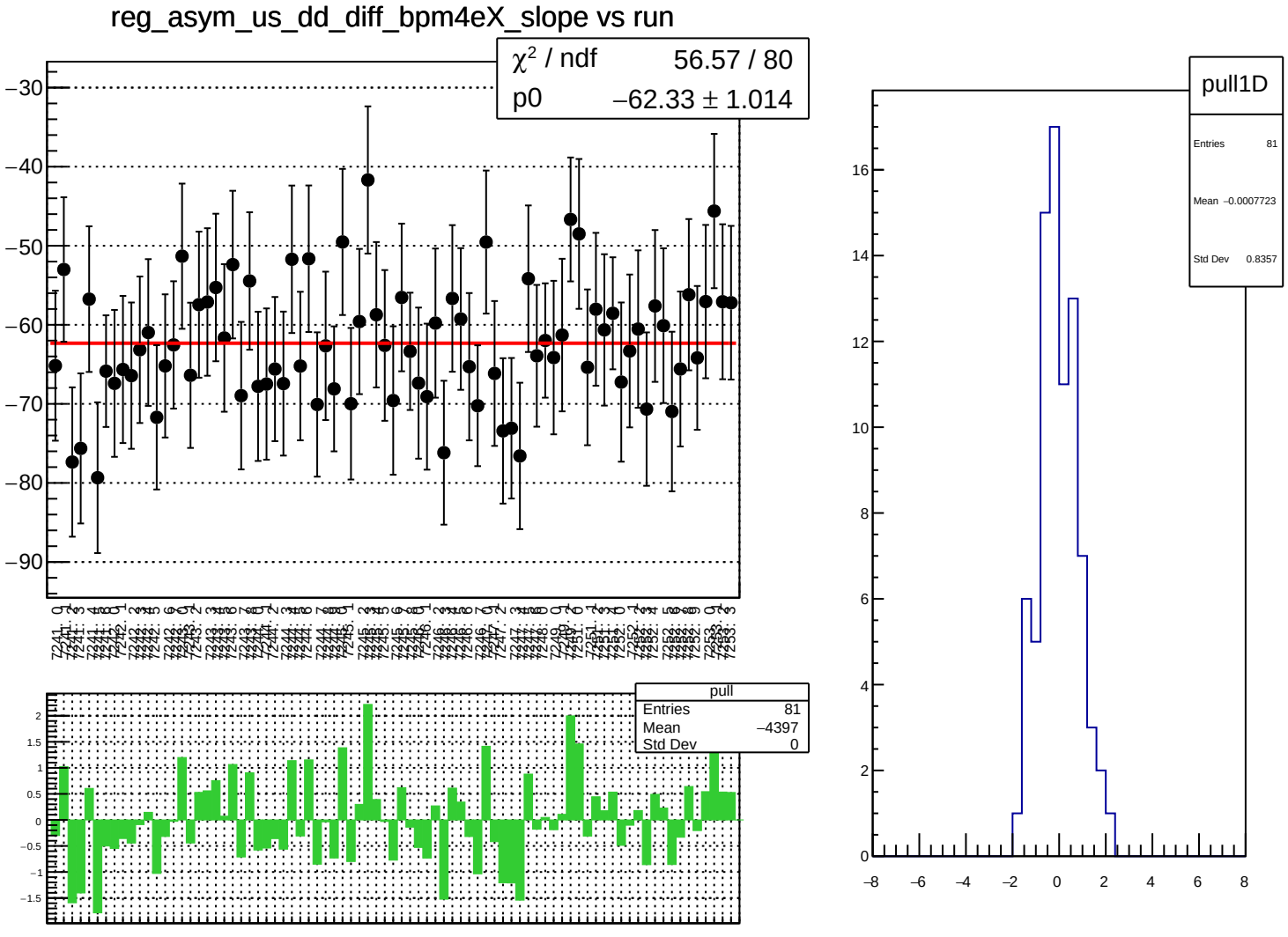

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 28.81 / 80
p0 −38.05 ± 0.05904
pull
Entries 81
Mean −265.6
Std Dev 0

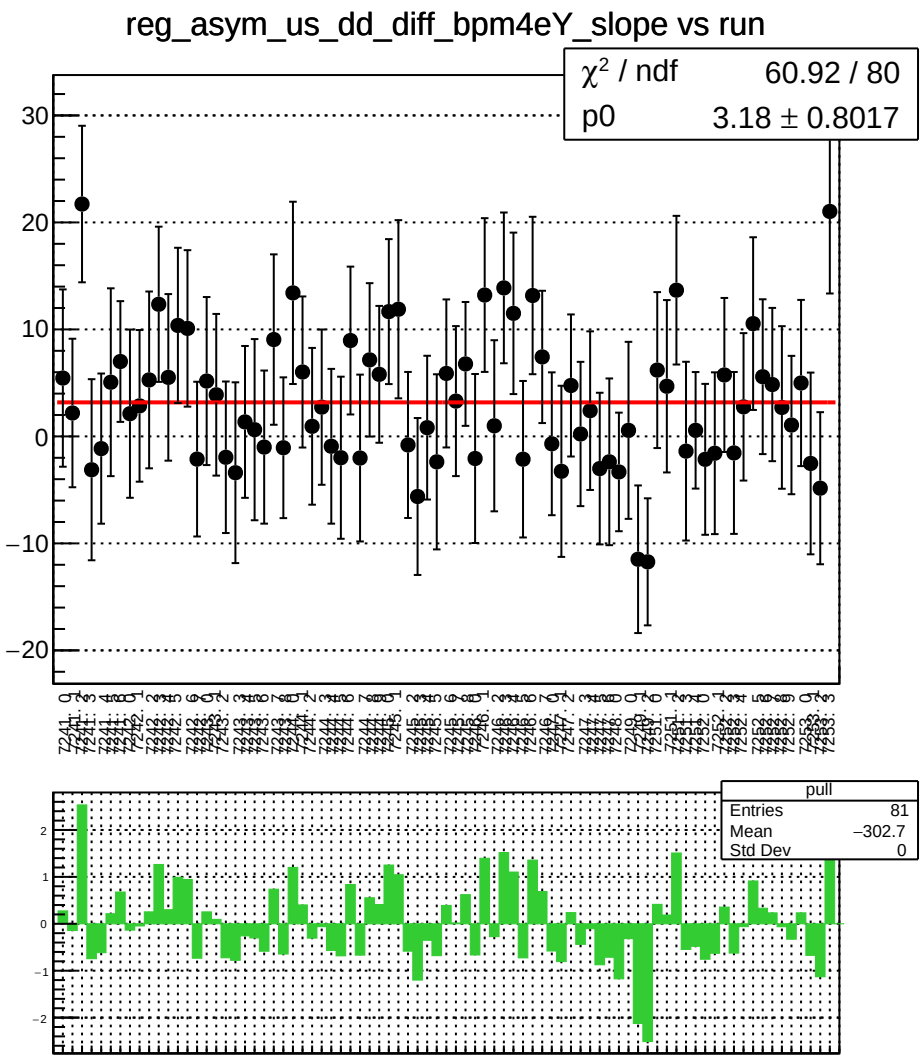

pull1D
Entries 81
Mean −0.01224
Std Dev 0.5963

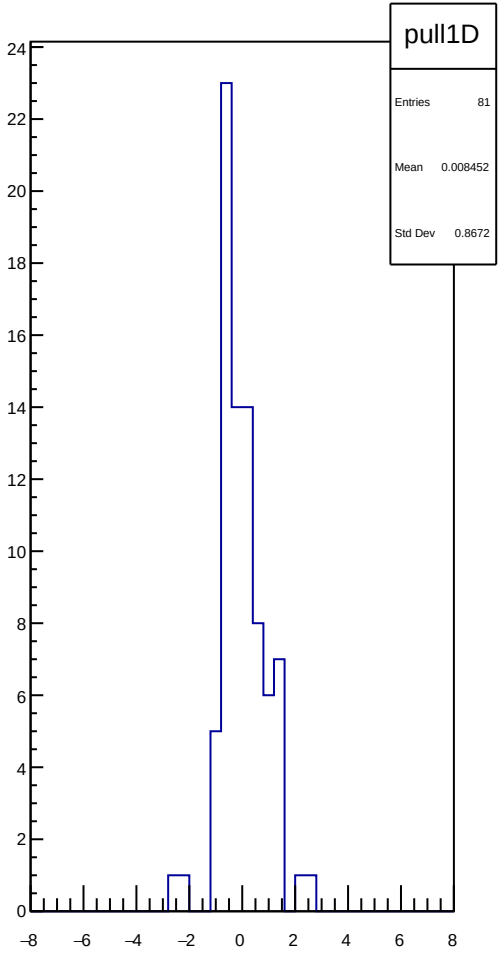

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 56.49 / 80
p0 3.515 ± 0.9764
pull
Entries 81
Mean 2483
Std Dev 0
pull1D
Entries 81
Mean −0.001446
Std Dev 0.8351

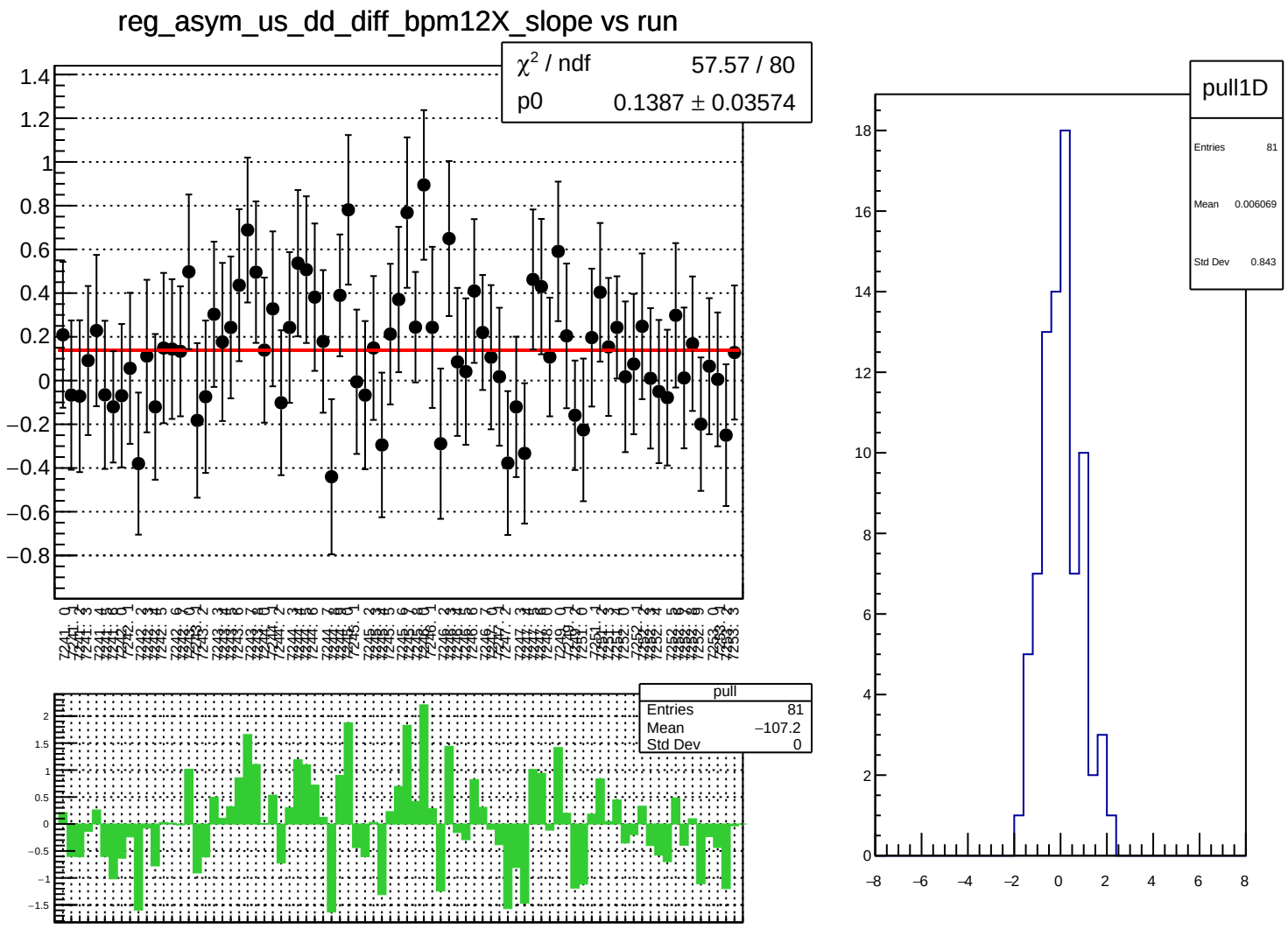

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 58.01 / 80
p0 −1.07 ± 0.7465
pull
Entries 81
Mean −458.5
Std Dev 0

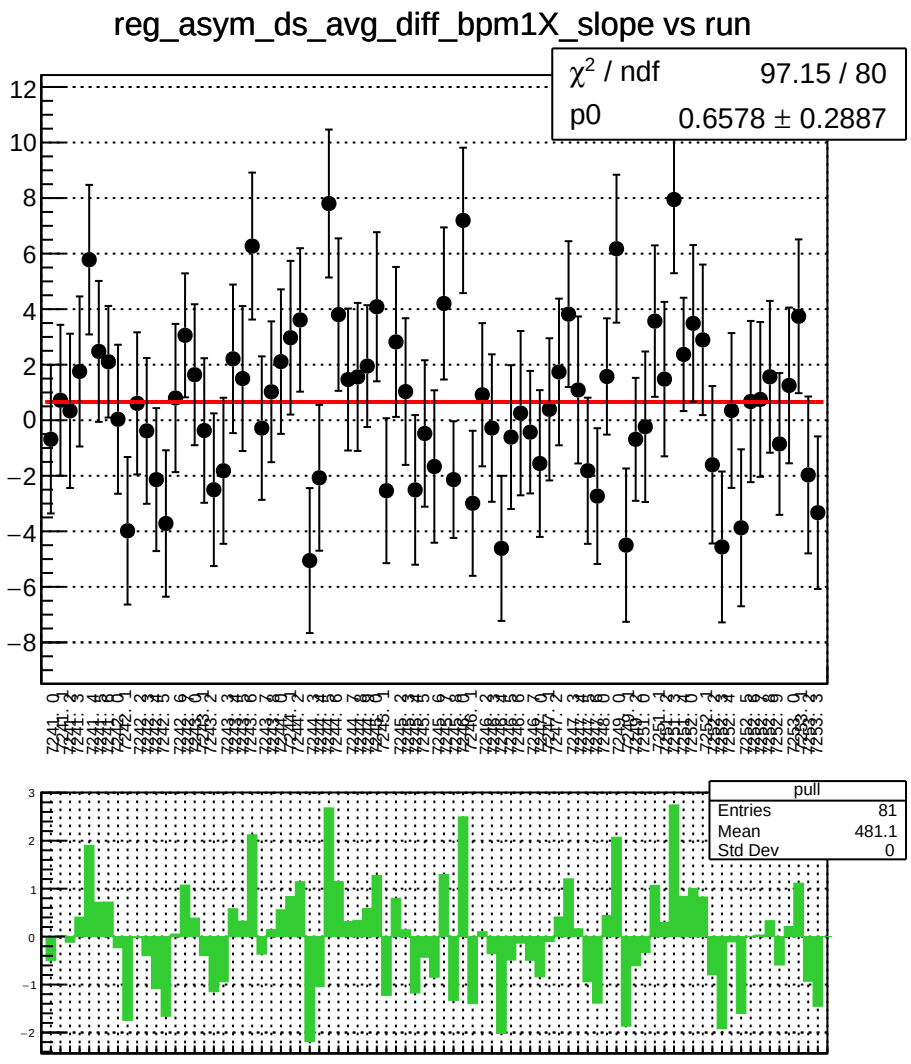

pull1D
Entries 81
Mean −0.005298
Std Dev 0.8462

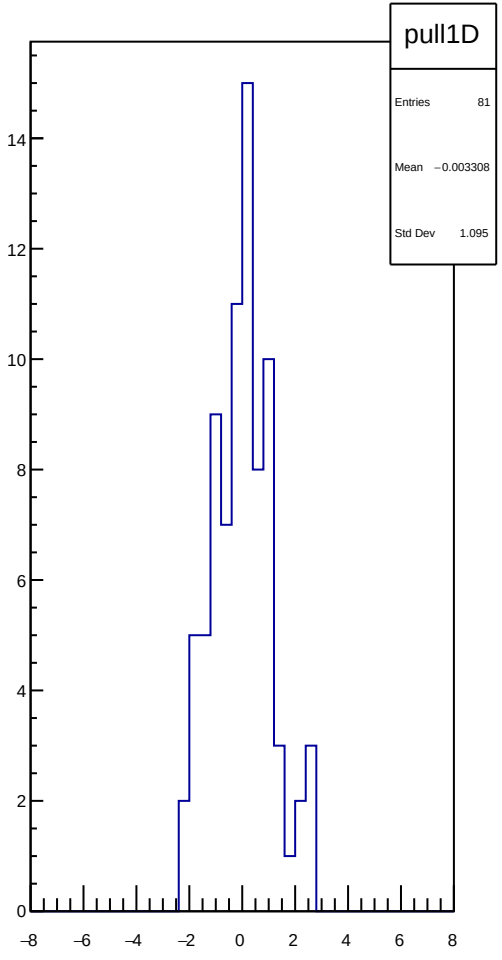

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 56.57 / 80
p0 −62.33 ± 1.014
pull
Entries 81
Mean −4397
Std Dev 0
pull1D
Entries 81
Mean −0.0007723
Std Dev 0.8357

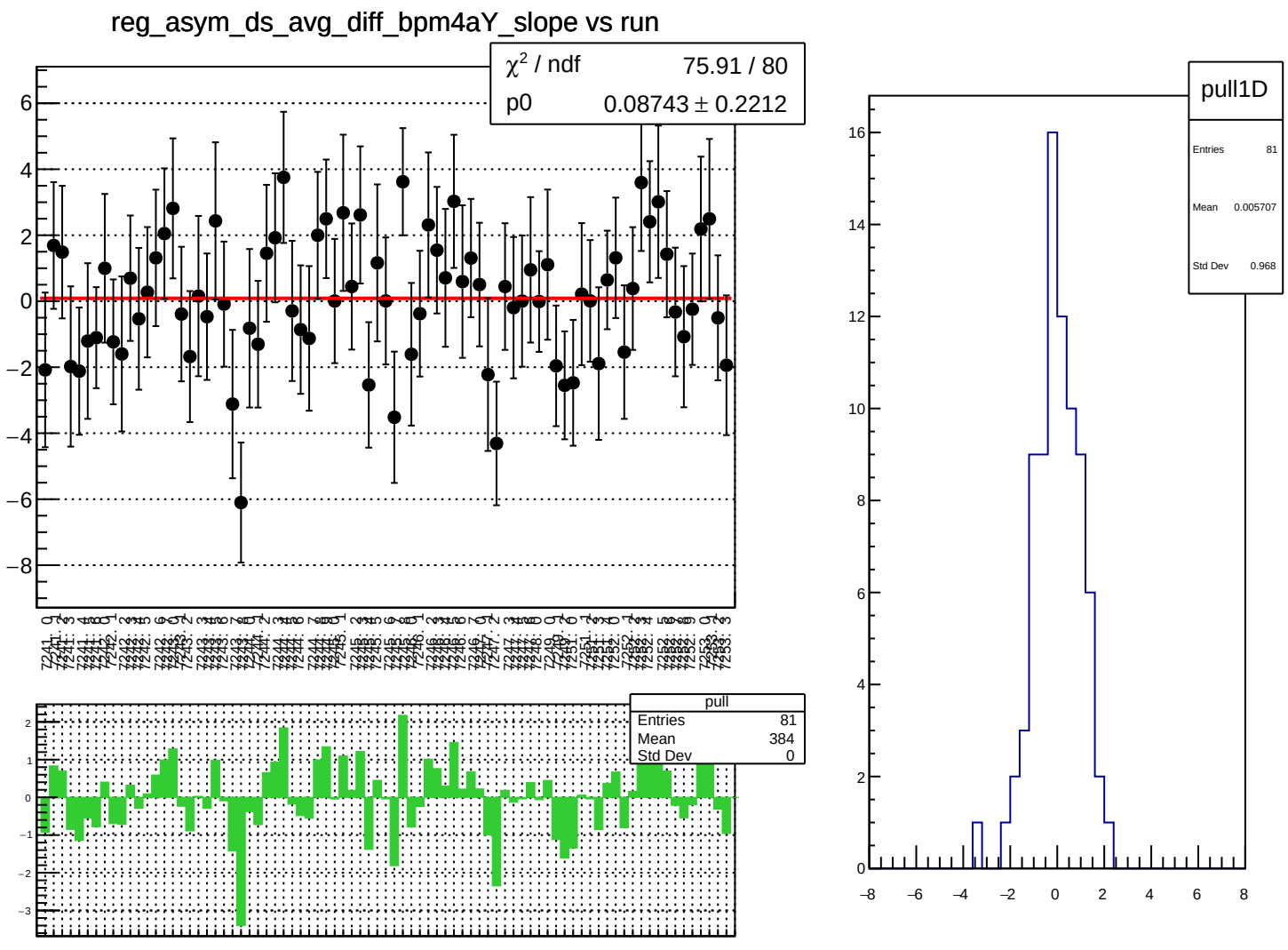

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 60.92 / 80
p0 3.18 ± 0.8017
pull
Entries 81
Mean −302.7
Std Dev 0

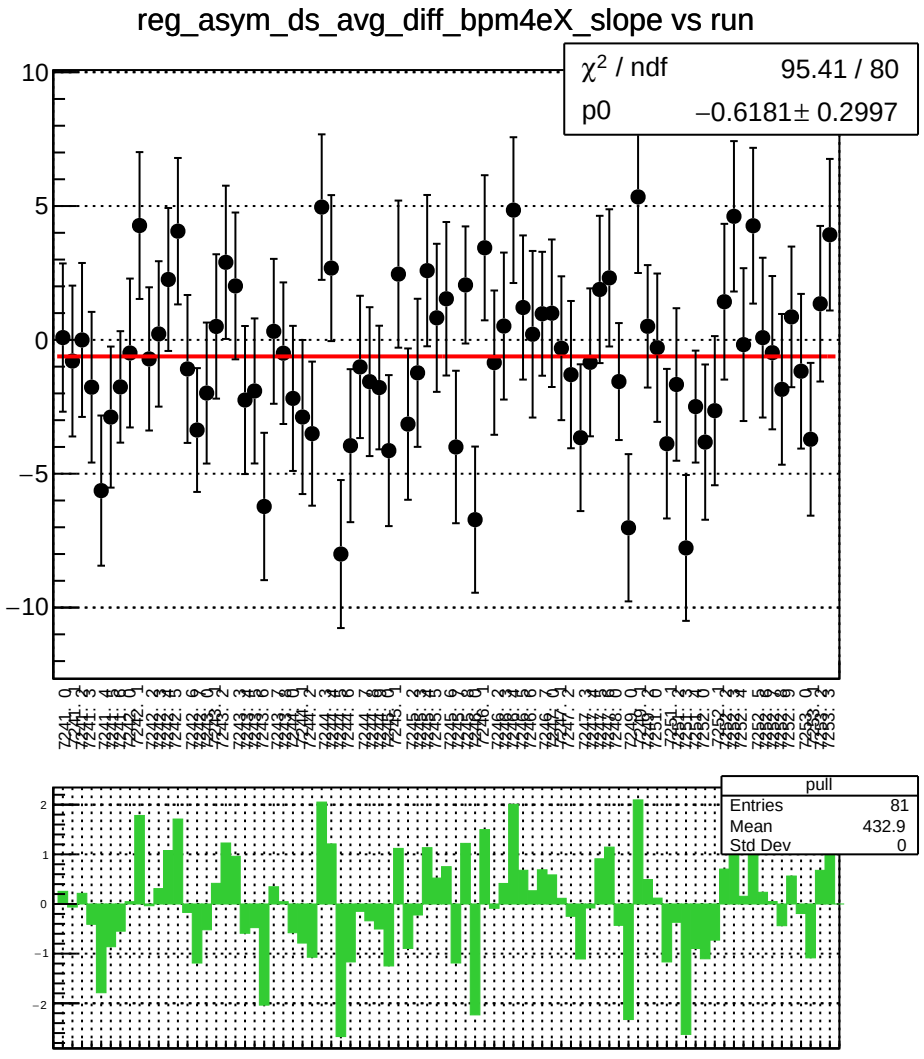

pull1D
Entries 81
Mean 0.008452
Std Dev 0.8672

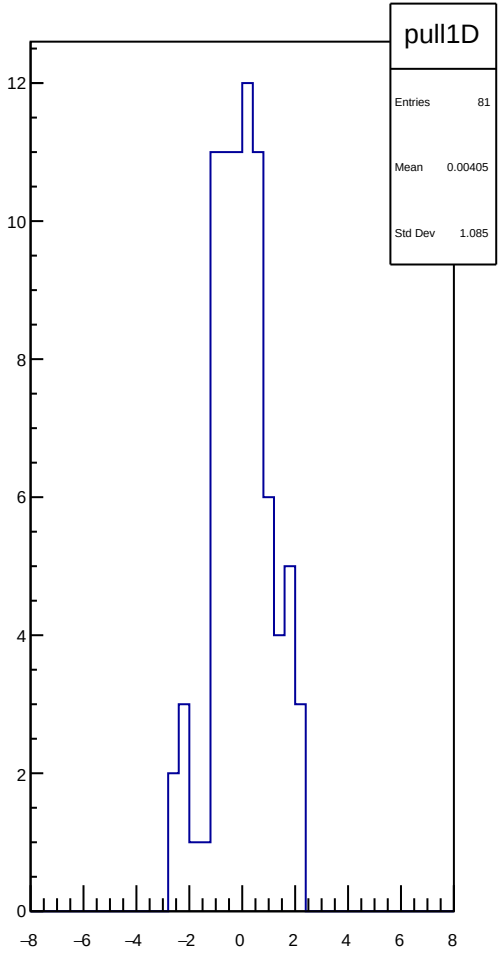

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 57.57 / 80
p0 0.1387 ± 0.03574
pull
Entries 81
Mean −107.2
Std Dev 0
pull1D
Entries 81
Mean 0.006069
Std Dev 0.843

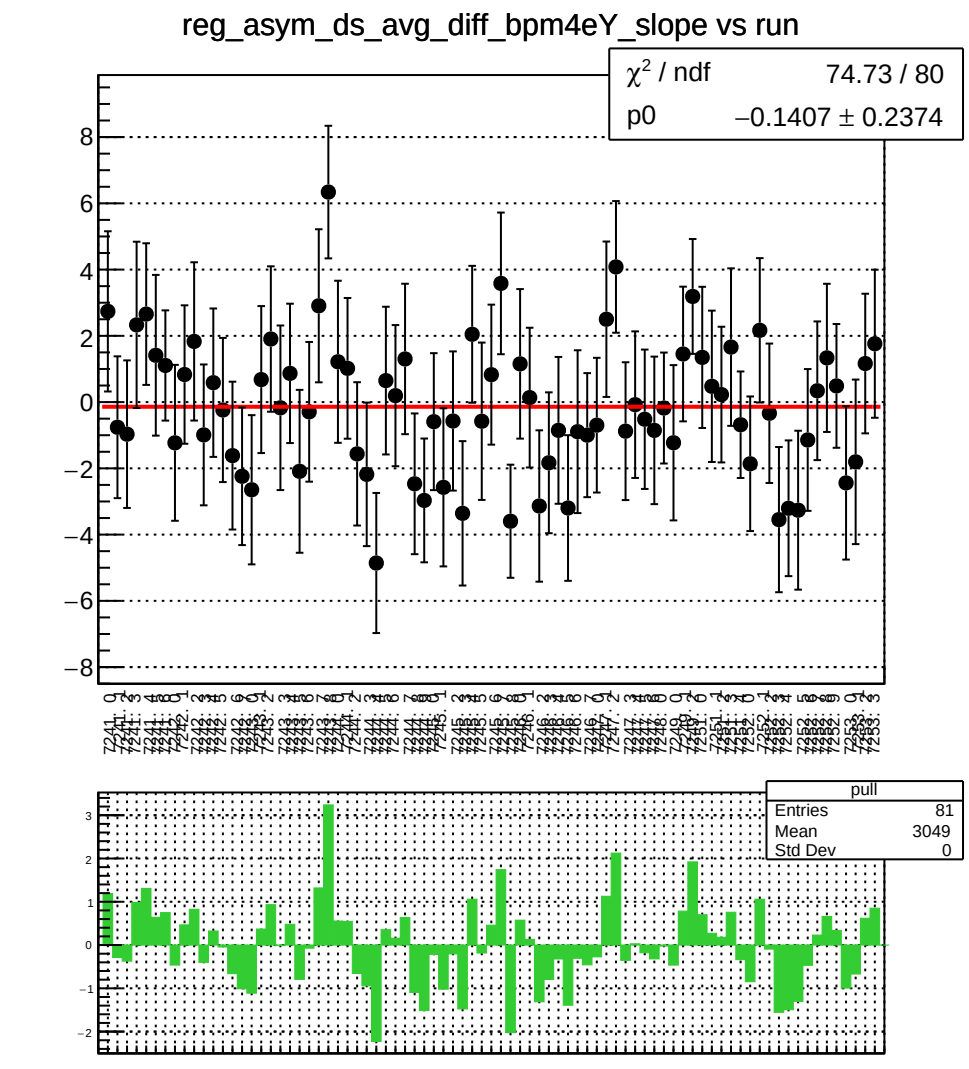

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 97.15 / 80
p0 0.6578 ± 0.2887
pull
Entries 81
Mean 481.1
Std Dev 0

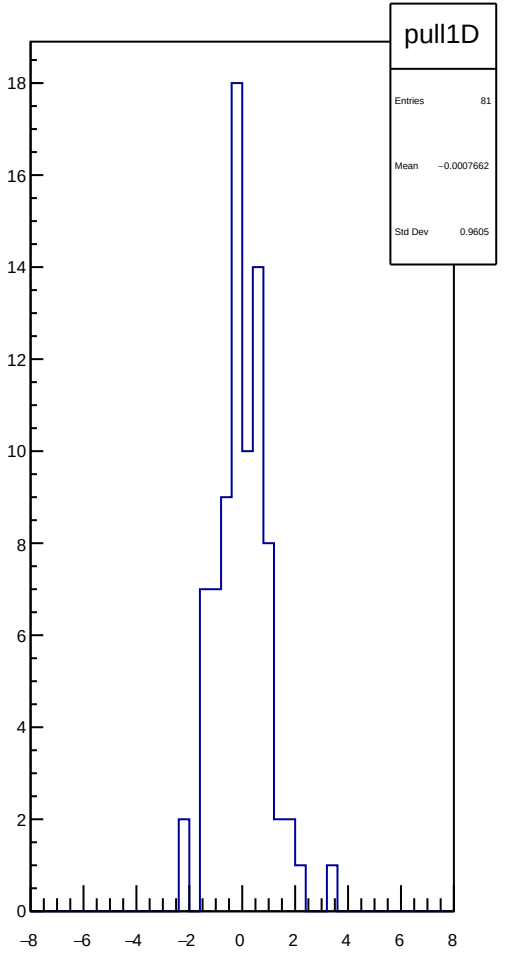

pull1D
Entries 81
Mean −0.003308
Std Dev 1.095

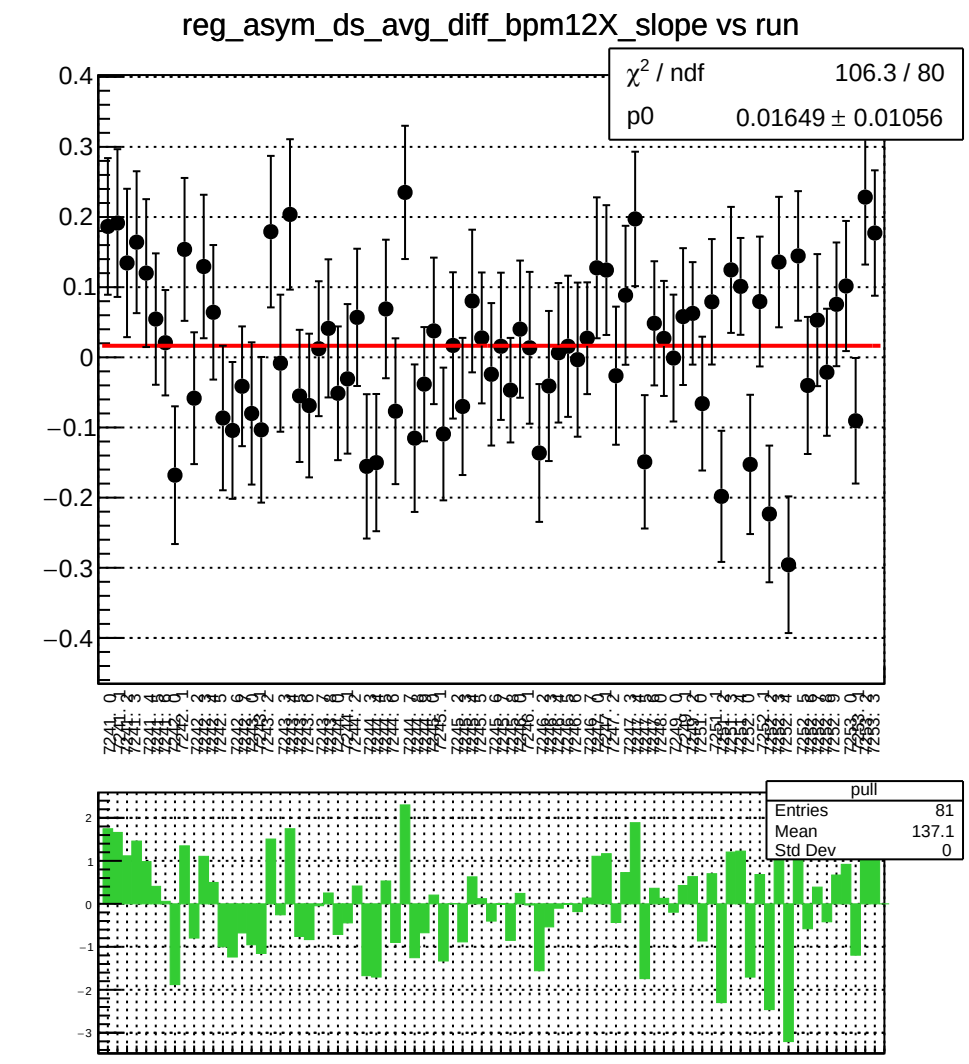

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 75.91 / 80
p0 0.08743 ± 0.2212
pull
Entries 81
Mean 384
Std Dev 0
pull1D
Entries 81
Mean 0.005707
Std Dev 0.968

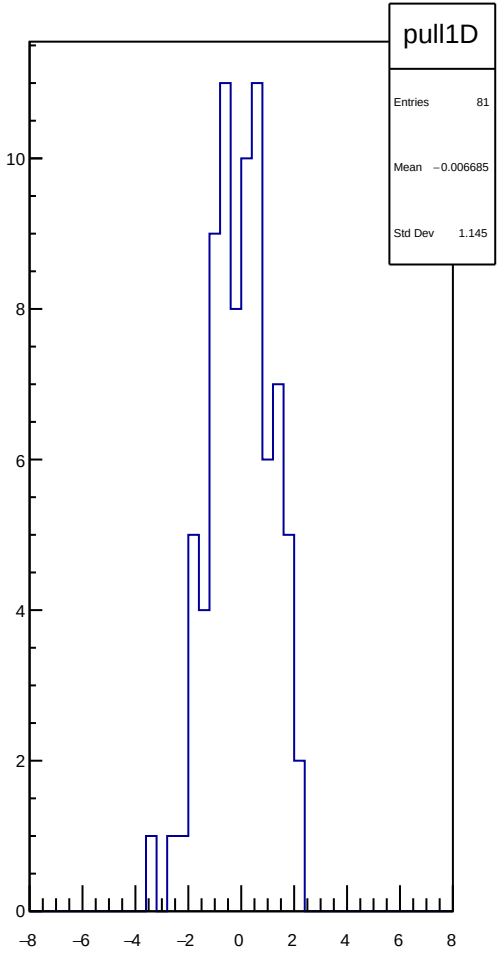

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 95.41 / 80
p0 −0.6181± 0.2997
pull
Entries 81
Mean 432.9
Std Dev 0

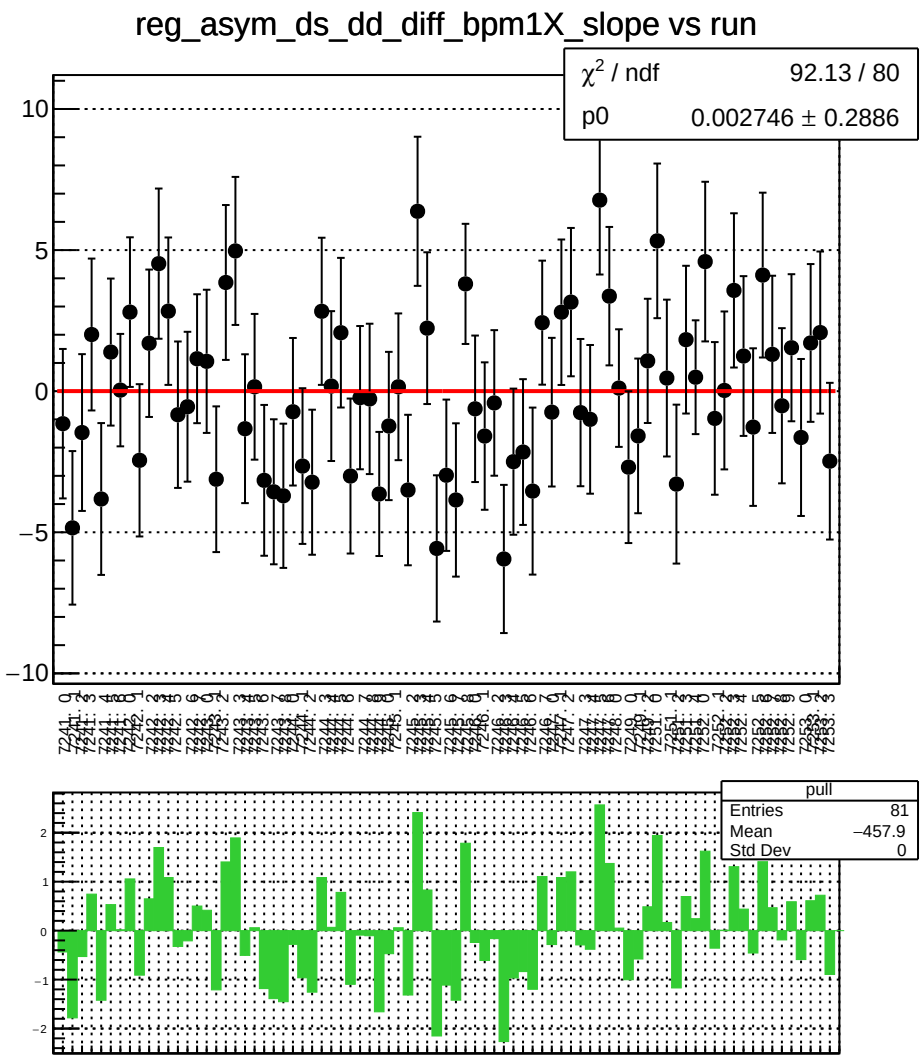

pull1D
Entries 81
Mean 0.00405
Std Dev 1.085

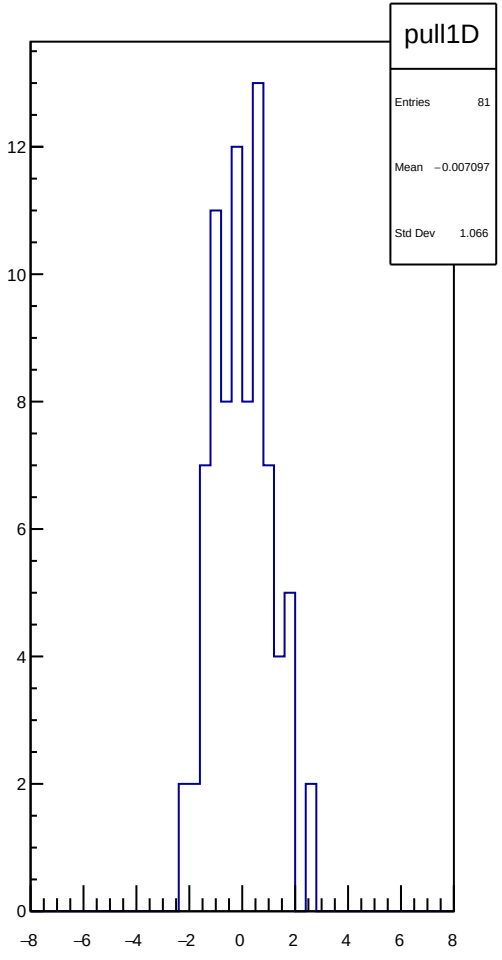

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 74.73 / 80
p0 −0.1407 ± 0.2374
pull
Entries 81
Mean 3049
Std Dev 0

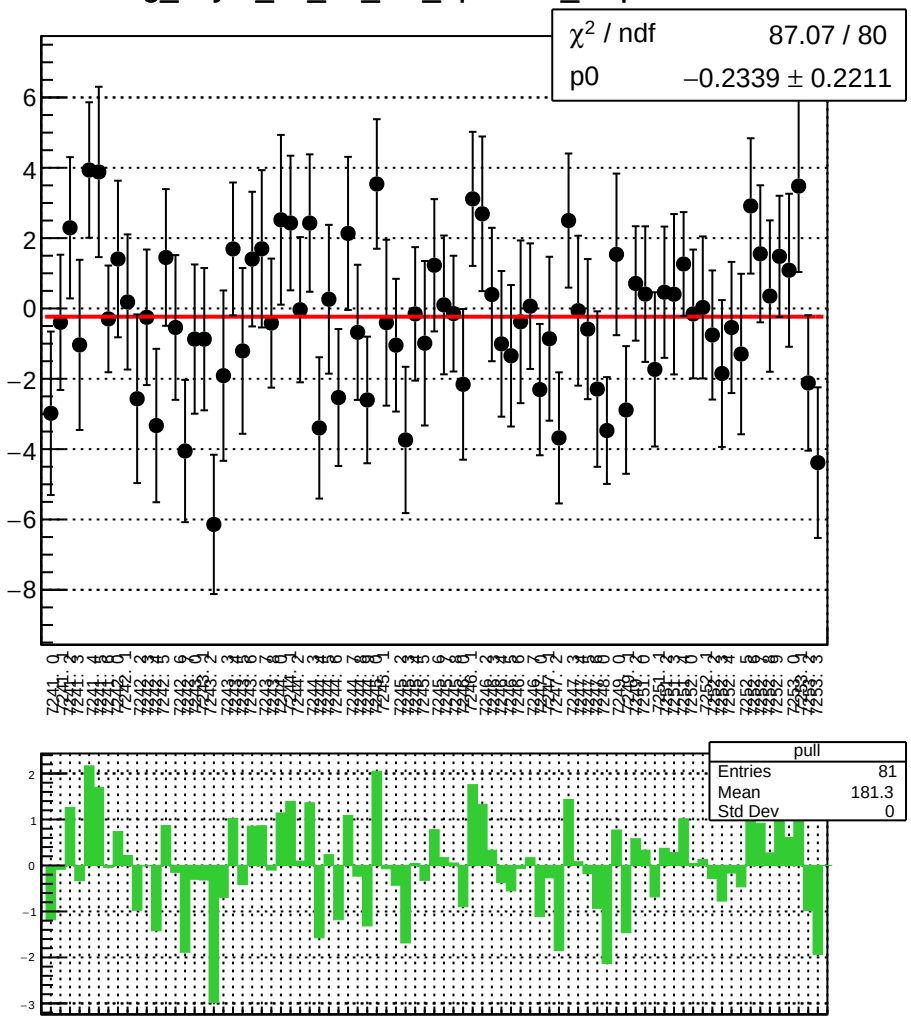

pull1D
Entries 81
Mean −0.0007662
Std Dev 0.9605

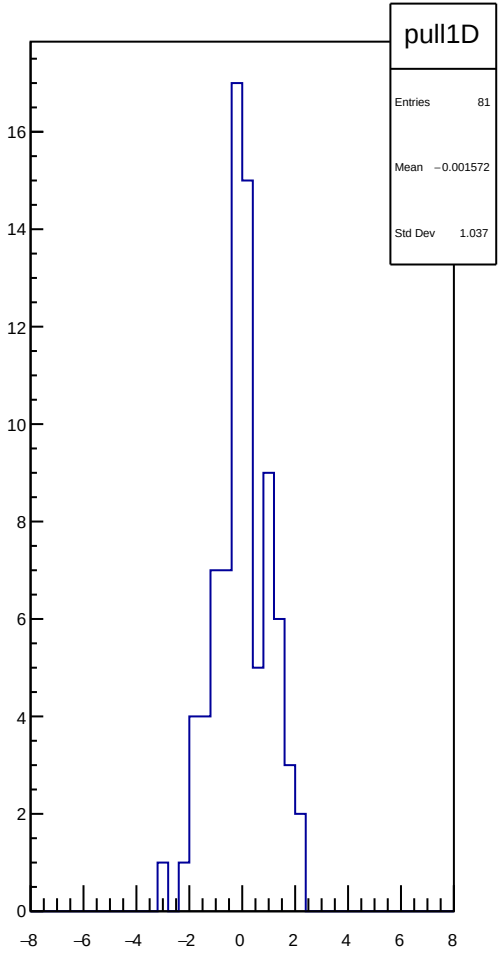

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 106.3 / 80
p0 0.01649 ± 0.01056
pull
Entries 81
Mean 137.1
Std Dev 0

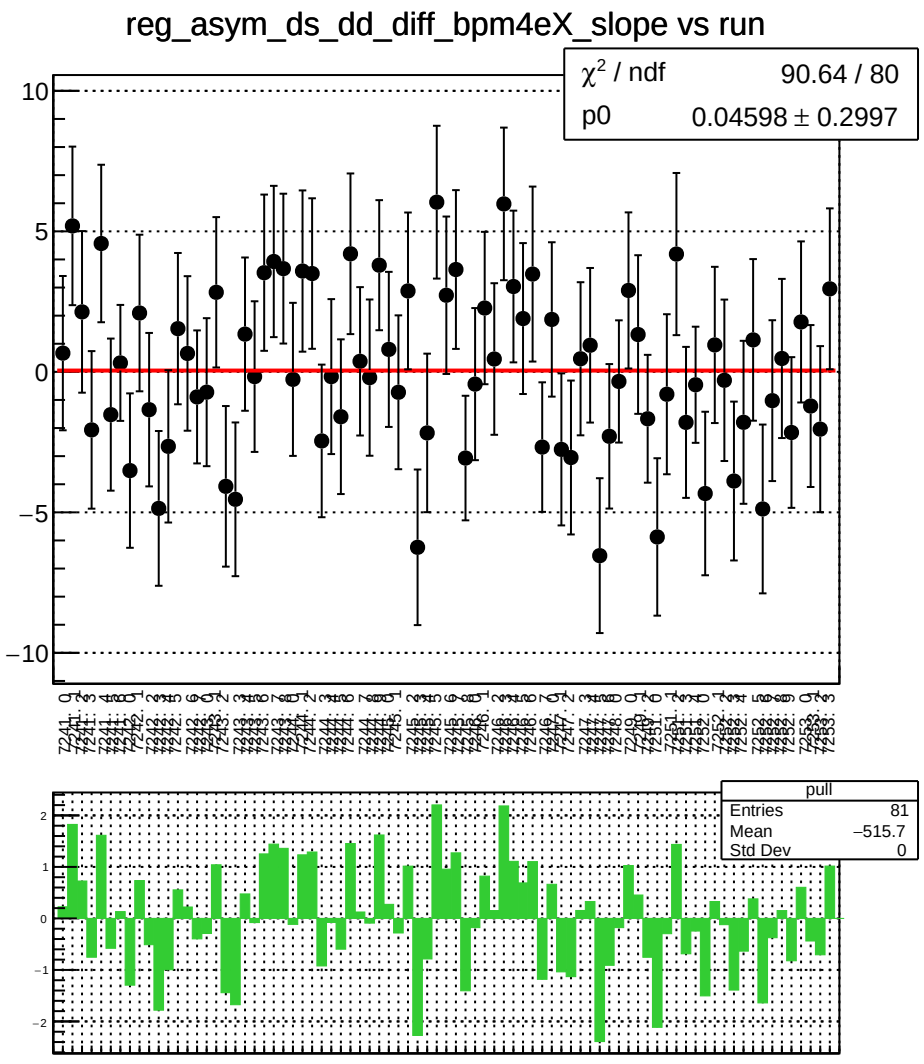

pull1D
Entries 81
Mean −0.006685
Std Dev 1.145

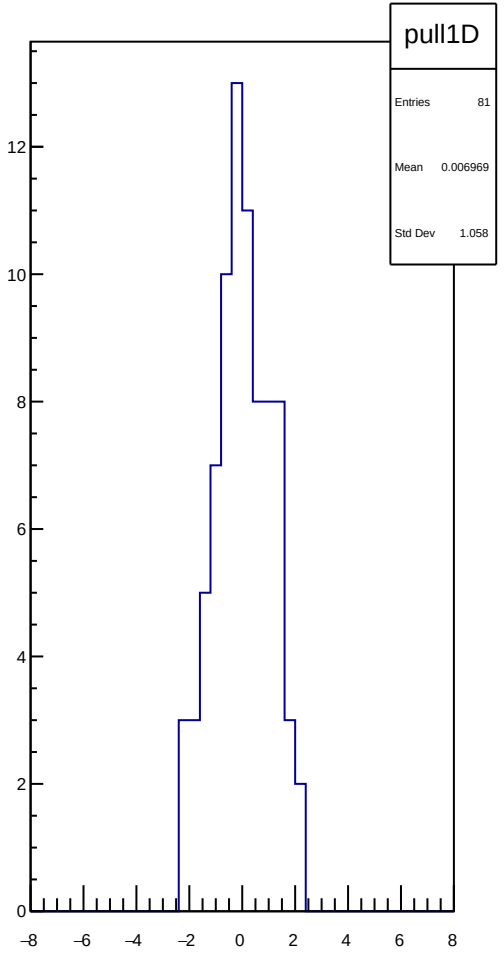

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 92.13 / 80
p0 0.002746 ± 0.2886
pull
Entries 81
Mean −457.9
Std Dev 0

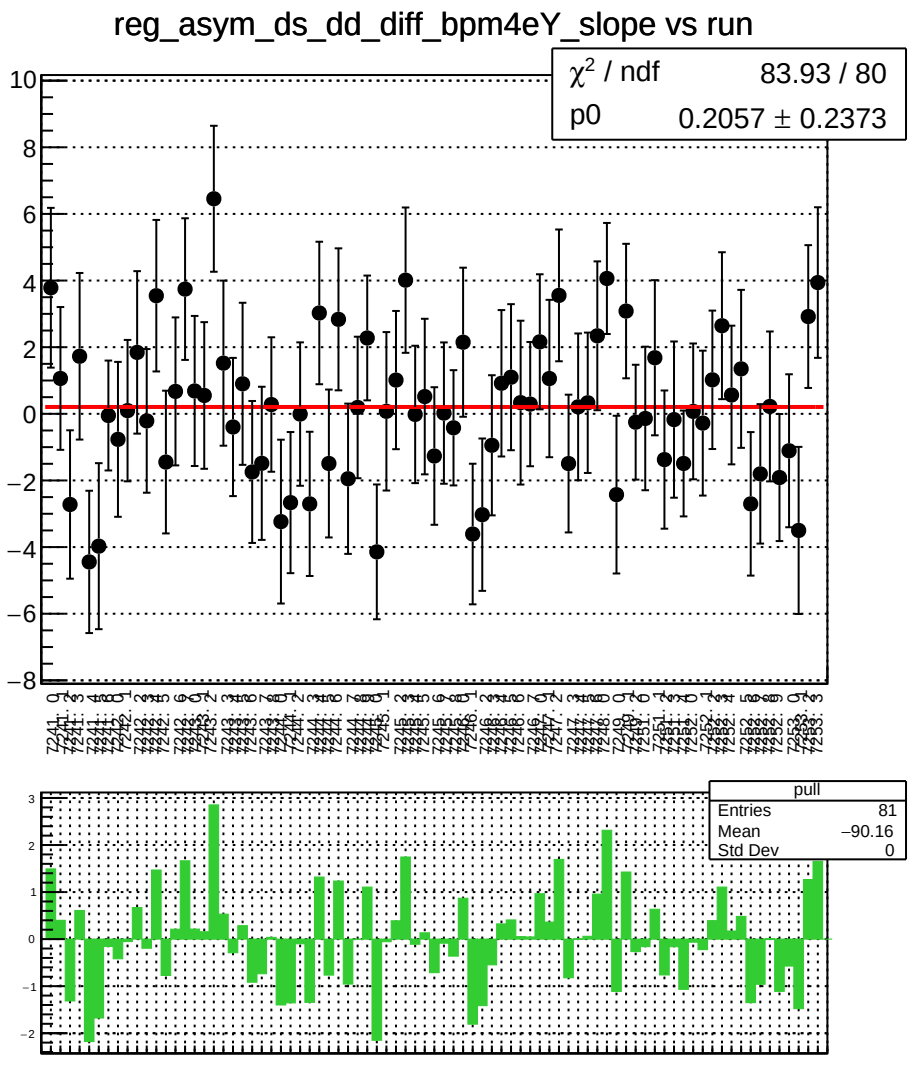

pull1D
Entries 81
Mean −0.007097
Std Dev 1.066

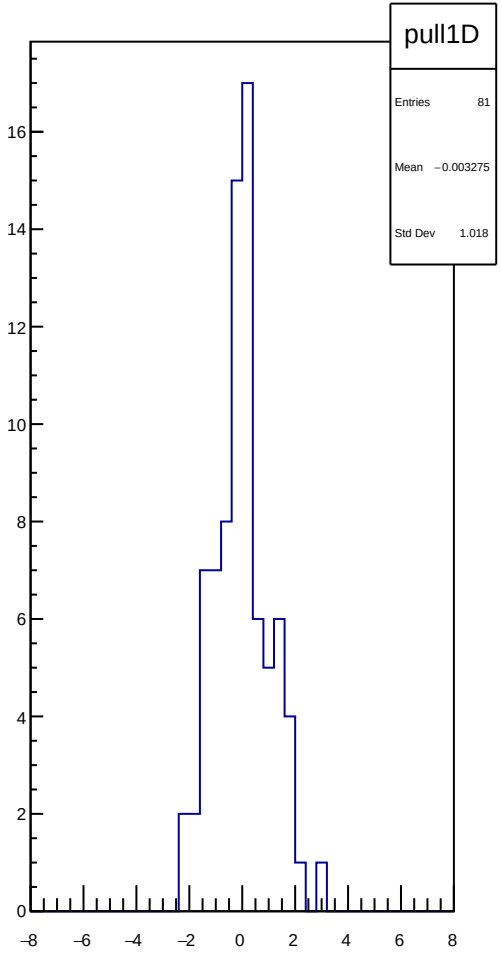

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 87.07 / 80
p0 −0.2339 ± 0.2211
pull
Entries 81
Mean 181.3
Std Dev 0

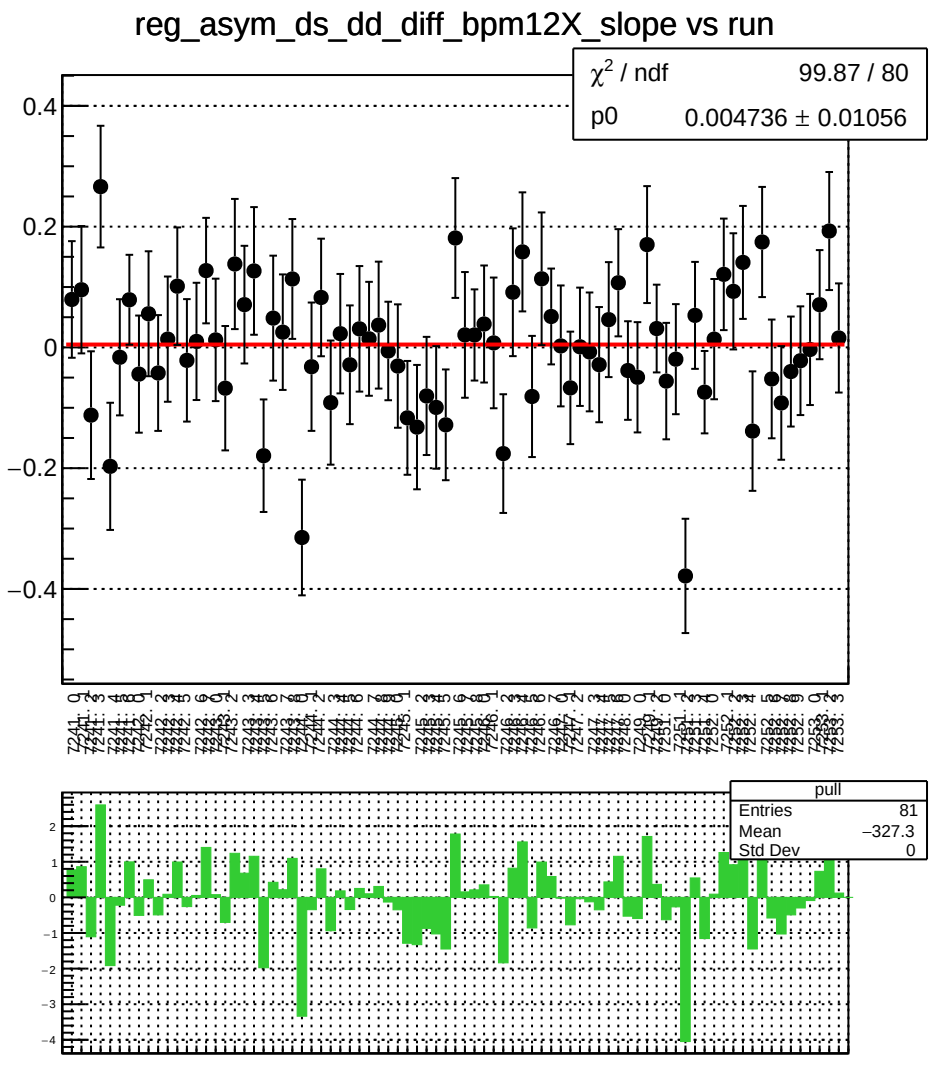

pull1D
Entries 81
Mean −0.001572
Std Dev 1.037

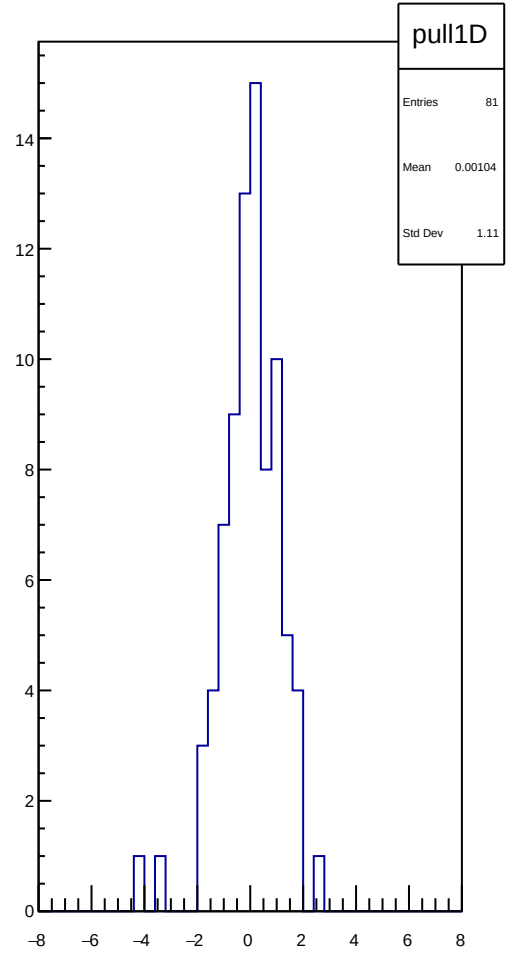

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 90.64 / 80
p0 0.04598 ± 0.2997
pull
Entries 81
Mean −515.7
Std Dev 0

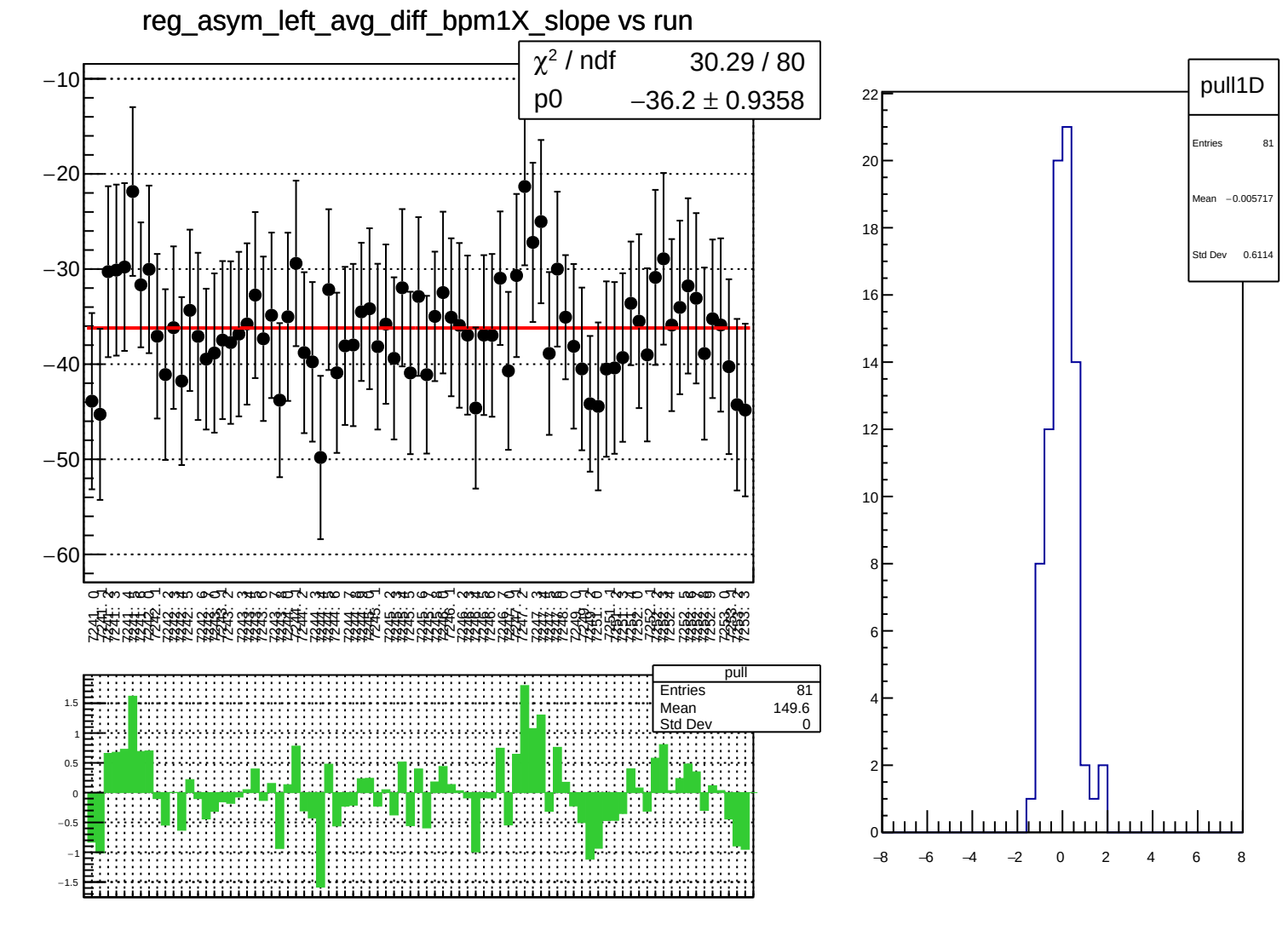

pull1D
Entries 81
Mean 0.006969
Std Dev 1.058

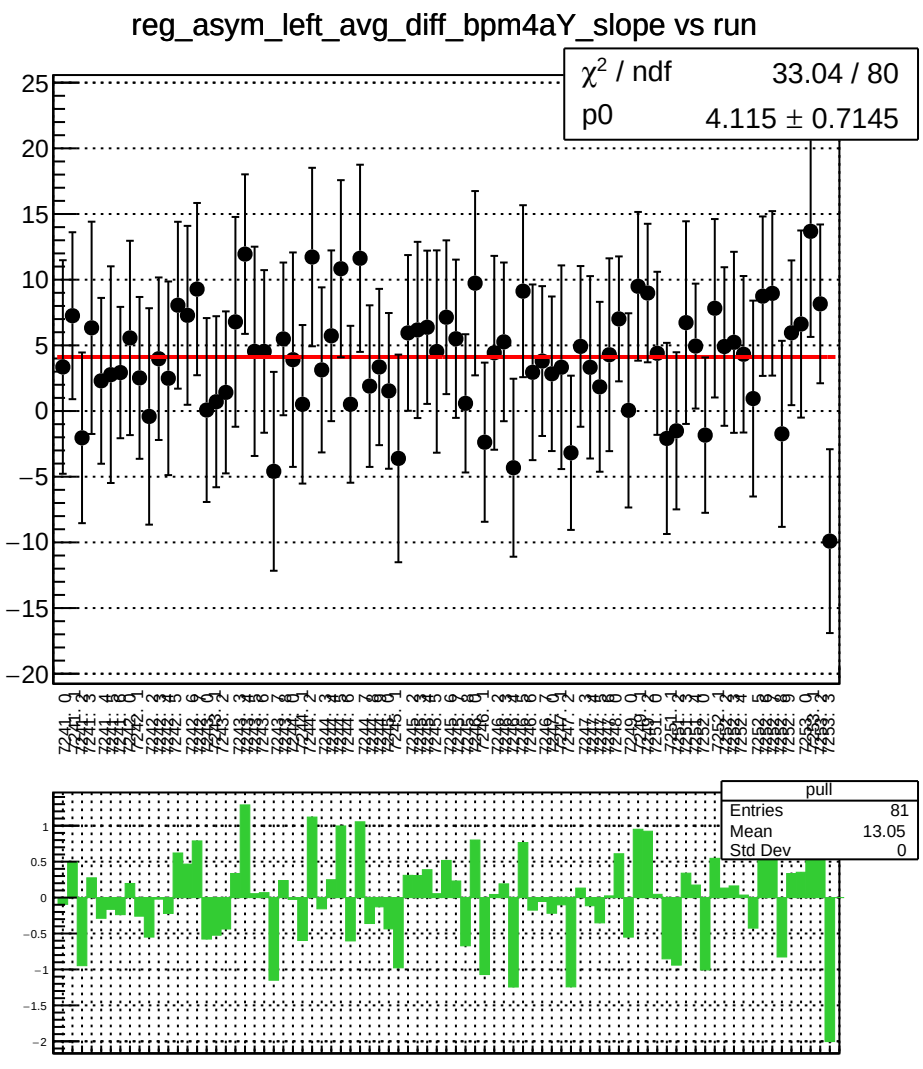

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 83.93 / 80
p0 0.2057 ± 0.2373
pull
Entries 81
Mean −90.16
Std Dev 0

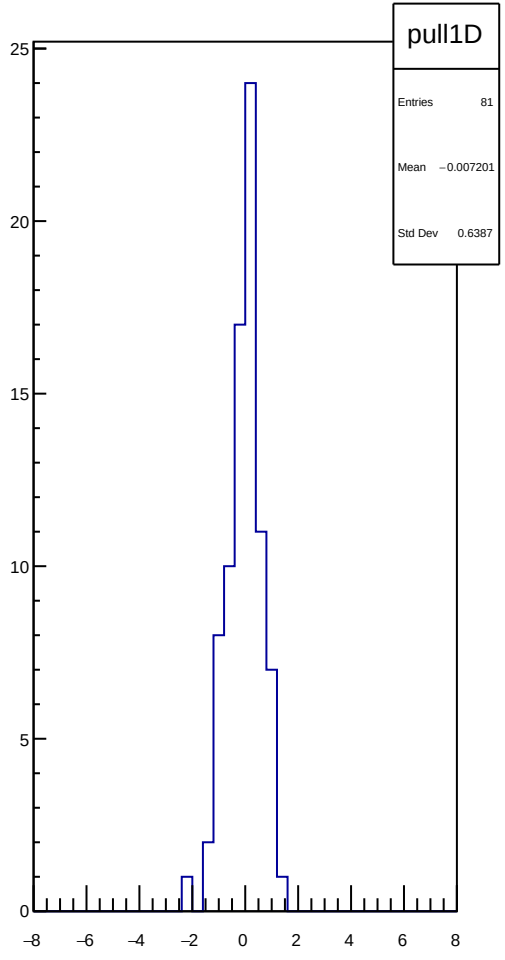

pull1D
Entries 81
Mean −0.003275
Std Dev 1.018

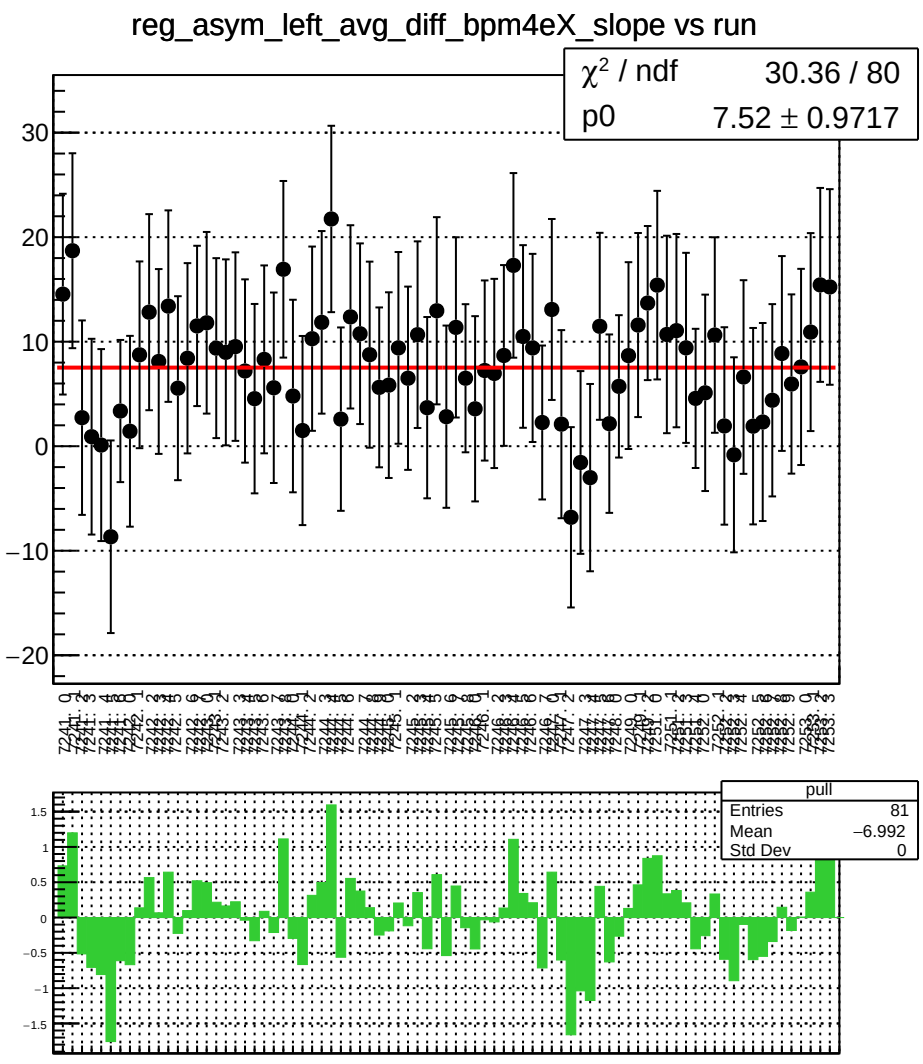

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 99.87 / 80
p0 0.004736 ± 0.01056
pull
Entries 81
Mean −327.3
Std Dev 0

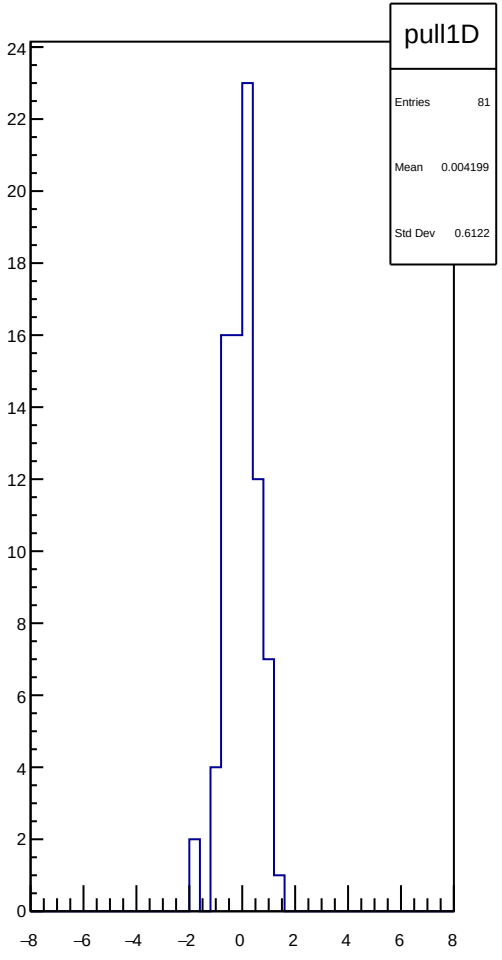

pull1D
Entries 81
Mean 0.00104
Std Dev 1.11

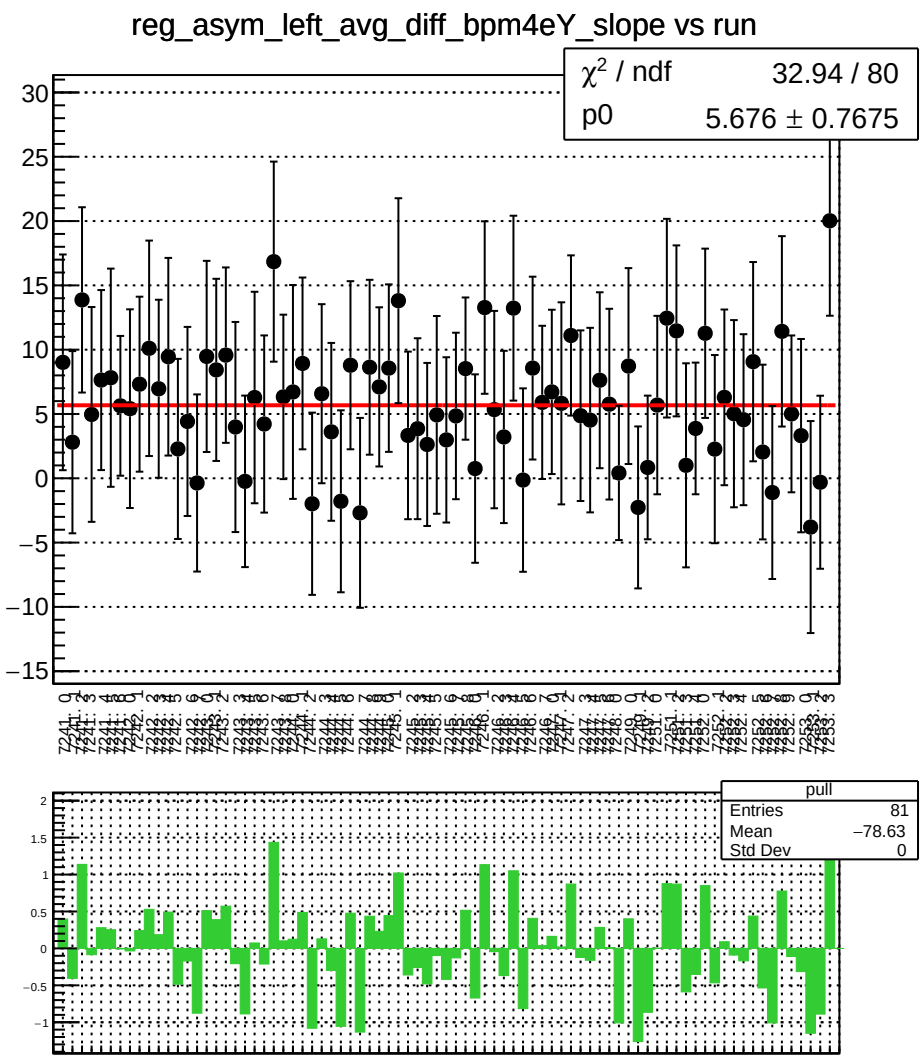

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 30.29 / 80
p0 −36.2 ± 0.9358
pull
Entries 81
Mean 149.6
Std Dev 0
pull1D
Entries 81
Mean −0.005717
Std Dev 0.6114

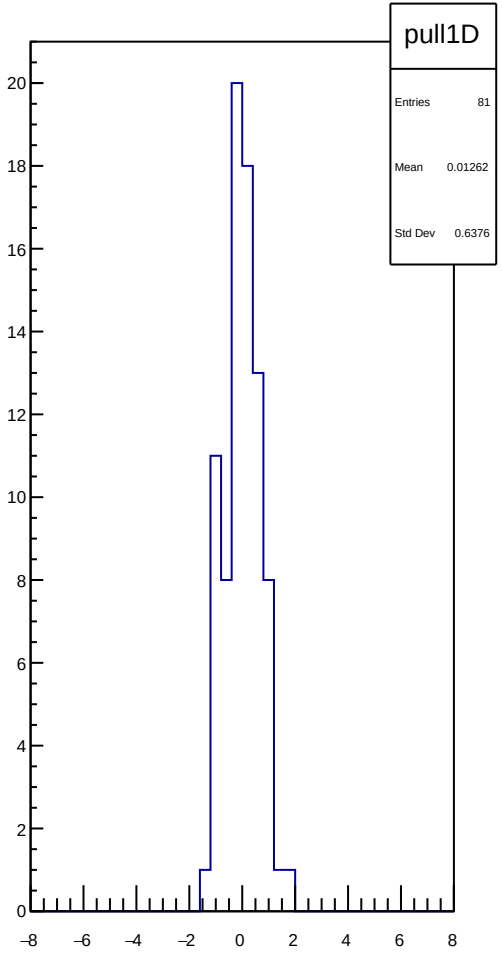

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 33.04 / 80
p0 4.115 ± 0.7145
pull
Entries 81
Mean 13.05
Std Dev 0

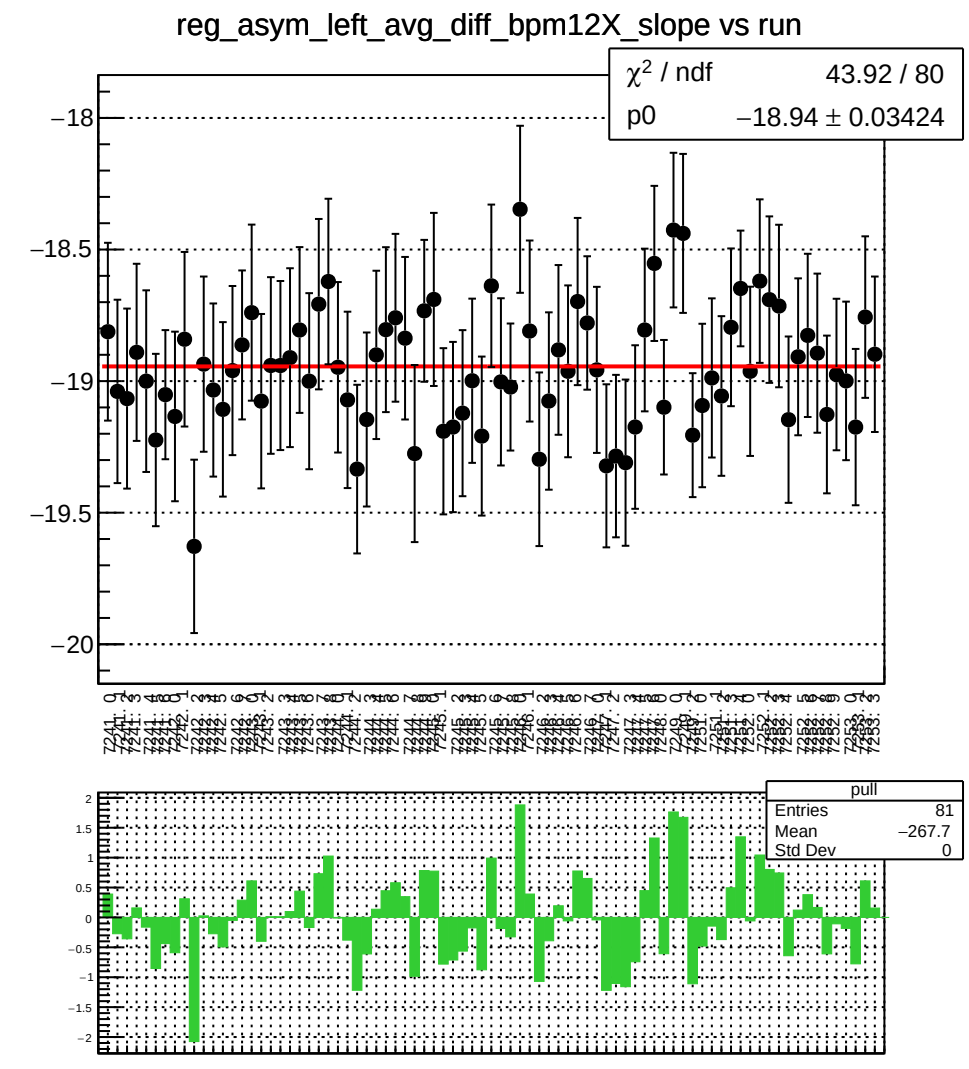

pull1D
Entries 81
Mean −0.007201
Std Dev 0.6387

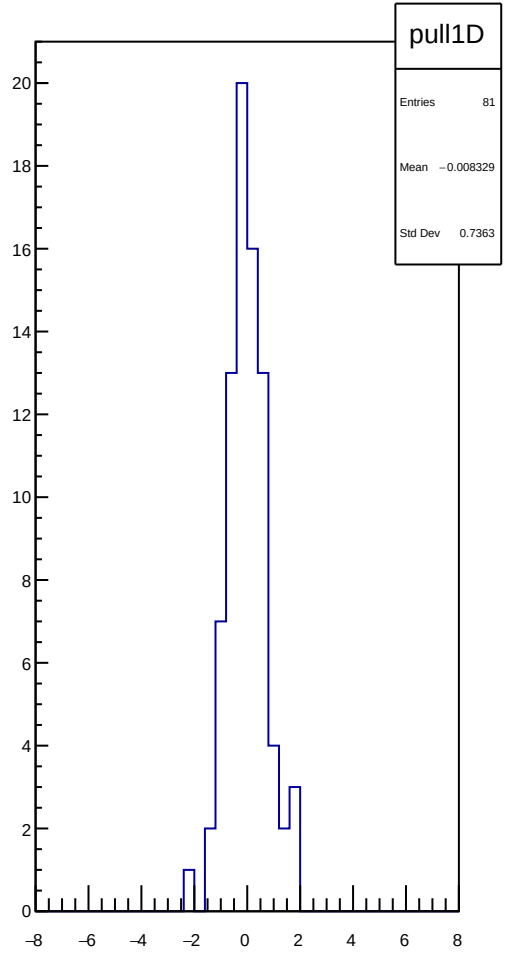

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 30.36 / 80
p0 7.52 ± 0.9717
pull
Entries 81
Mean −6.992
Std Dev 0

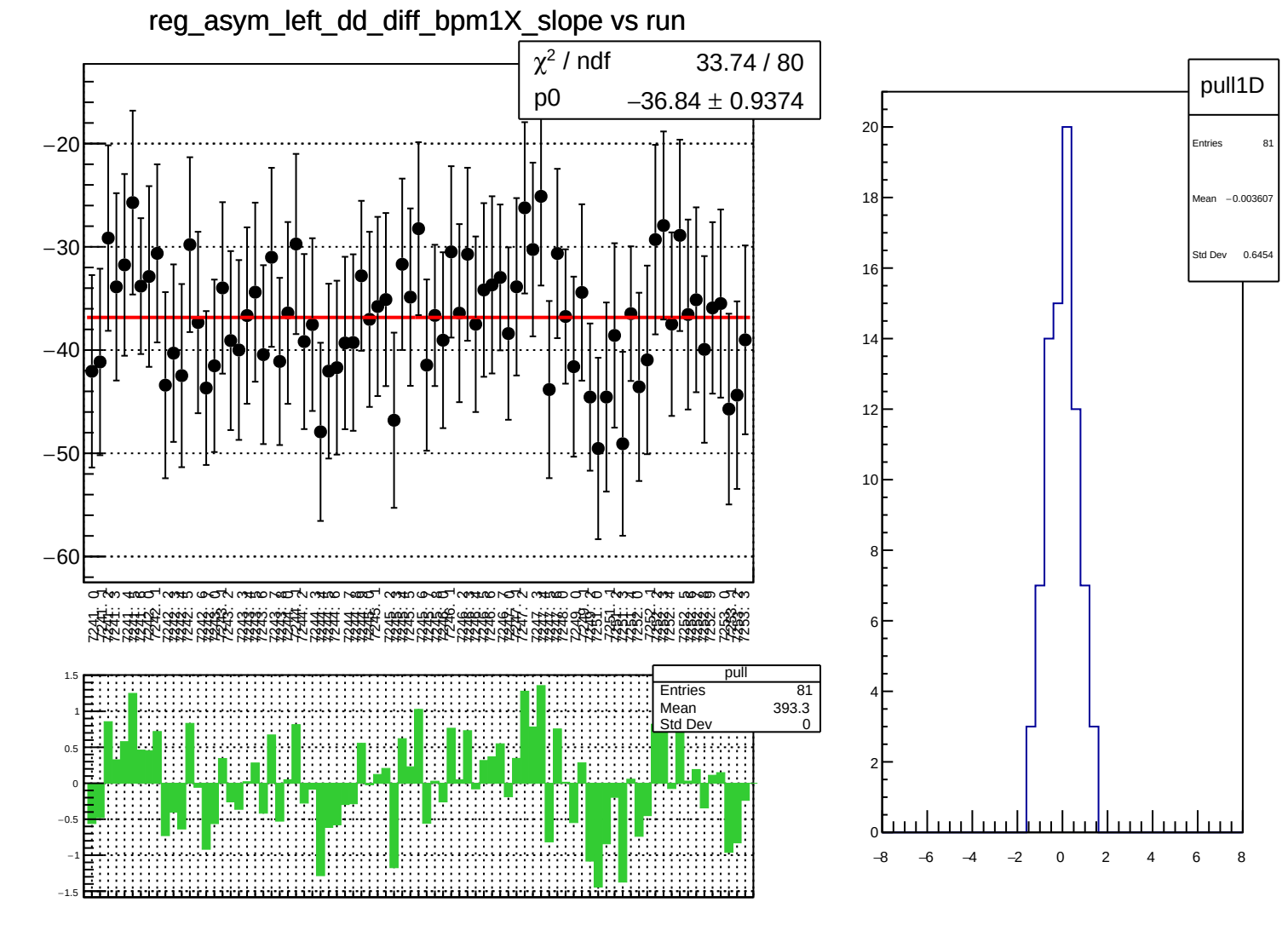

pull1D
Entries 81
Mean 0.004199
Std Dev 0.6122

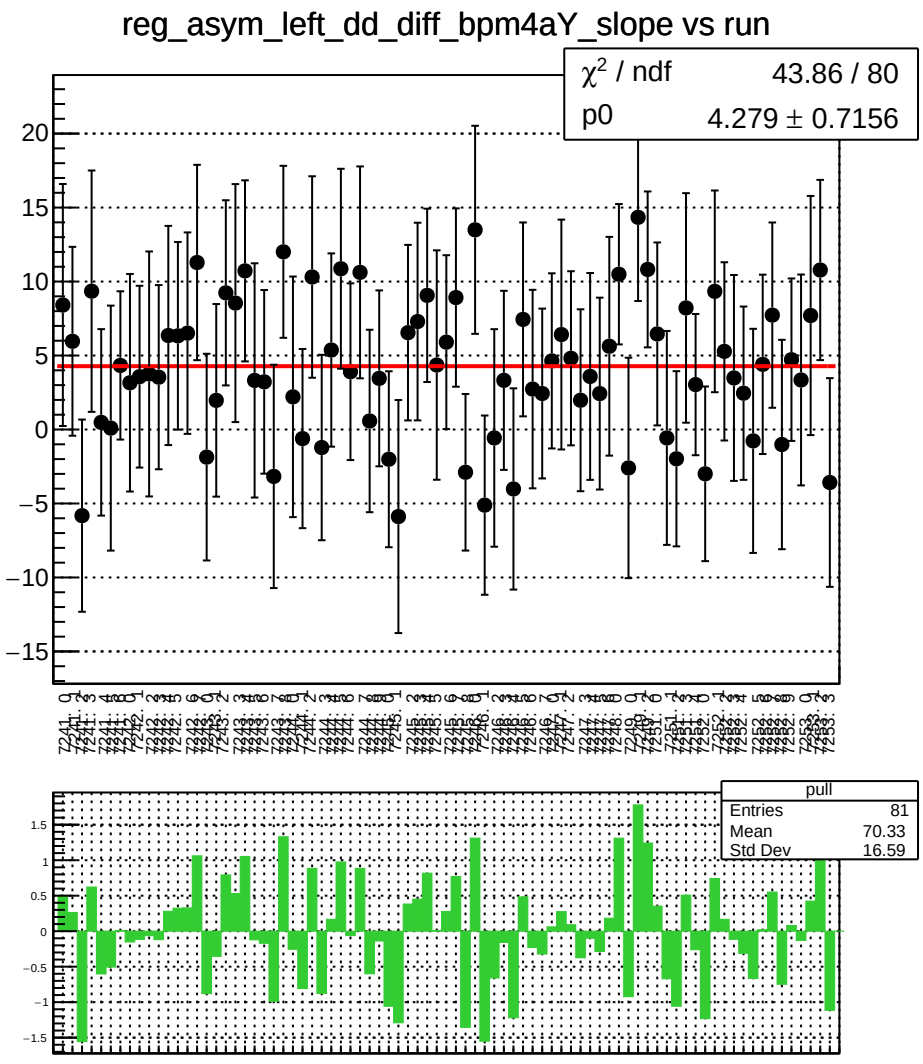

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 32.94 / 80
p0 5.676 ± 0.7675
pull
Entries 81
Mean −78.63
Std Dev 0

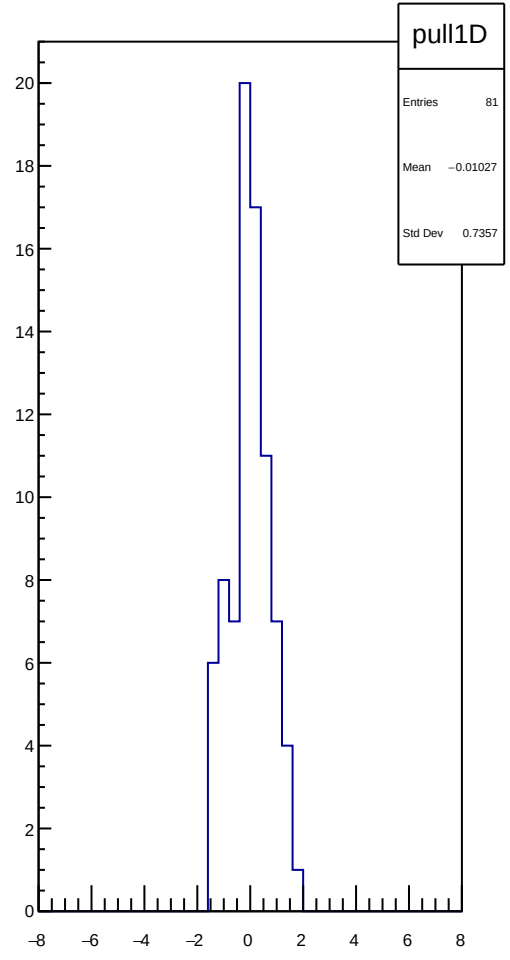

pull1D
Entries 81
Mean 0.01262
Std Dev 0.6376

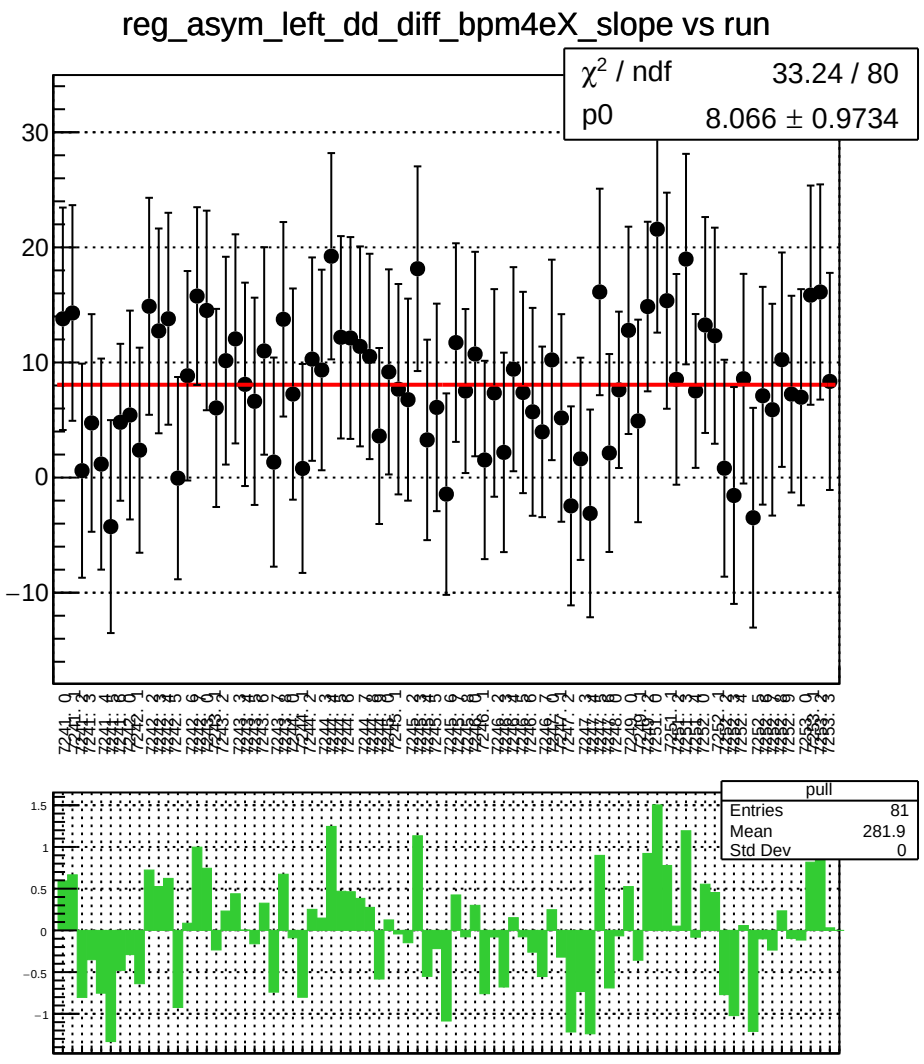

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 43.92 / 80
p0 −18.94 ± 0.03424
−18
−18.5
−19
−19.5
−20
pull
Entries 81
Mean −267.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

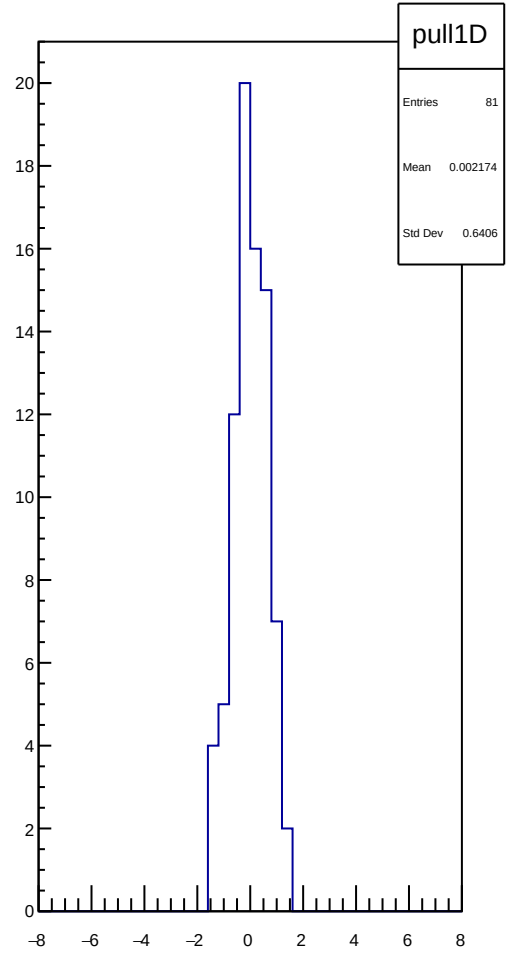

pull1D
Entries 81
Mean −0.008329
Std Dev 0.7363
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

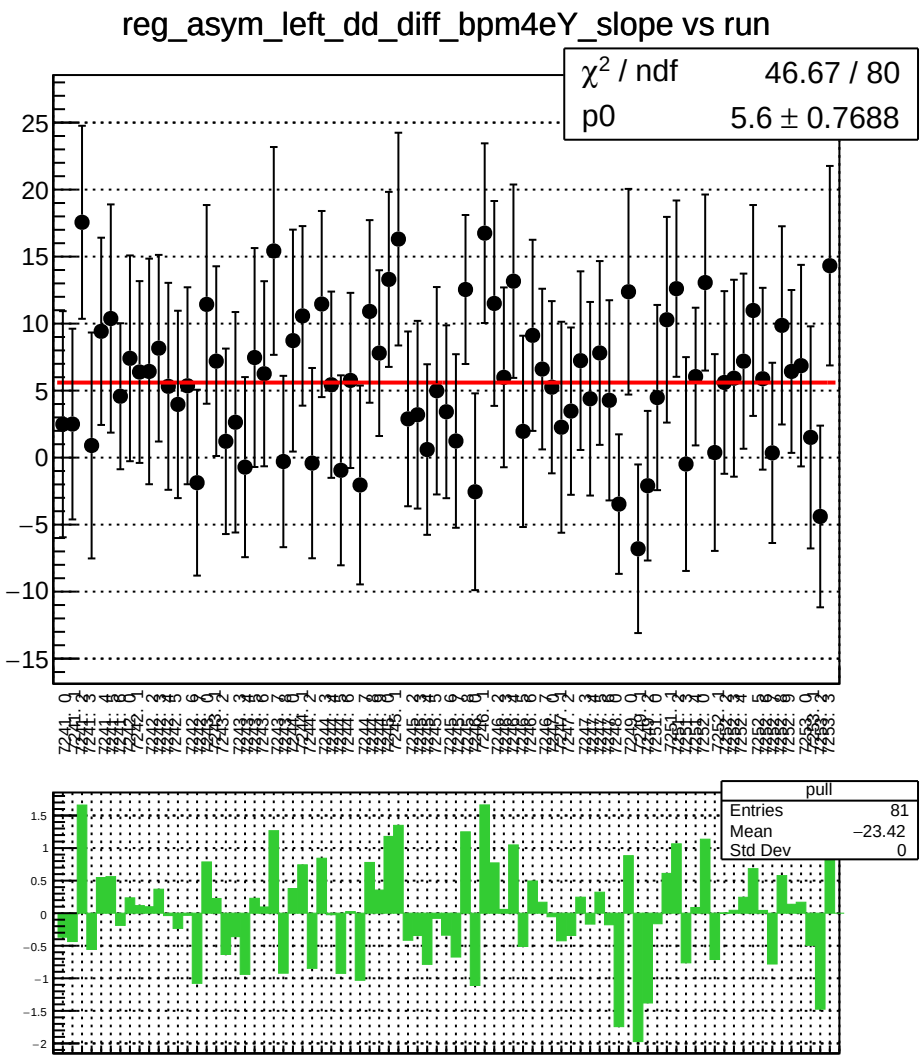

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 33.74 / 80
p0 −36.84 ± 0.9374
pull
Entries 81
Mean 393.3
Std Dev 0
pull1D
Entries 81
Mean −0.003607
Std Dev 0.6454

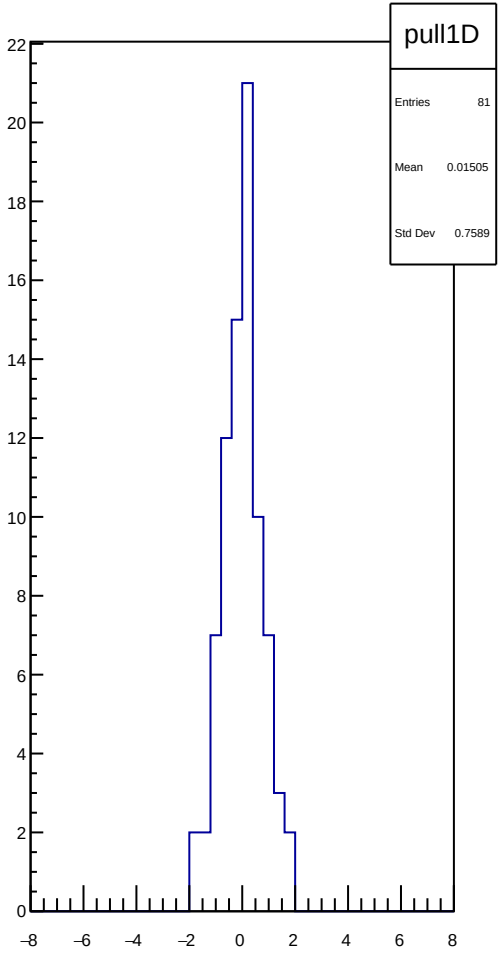

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 43.86 / 80
p0 4.279 ± 0.7156
pull
Entries 81
Mean 70.33
Std Dev 16.59

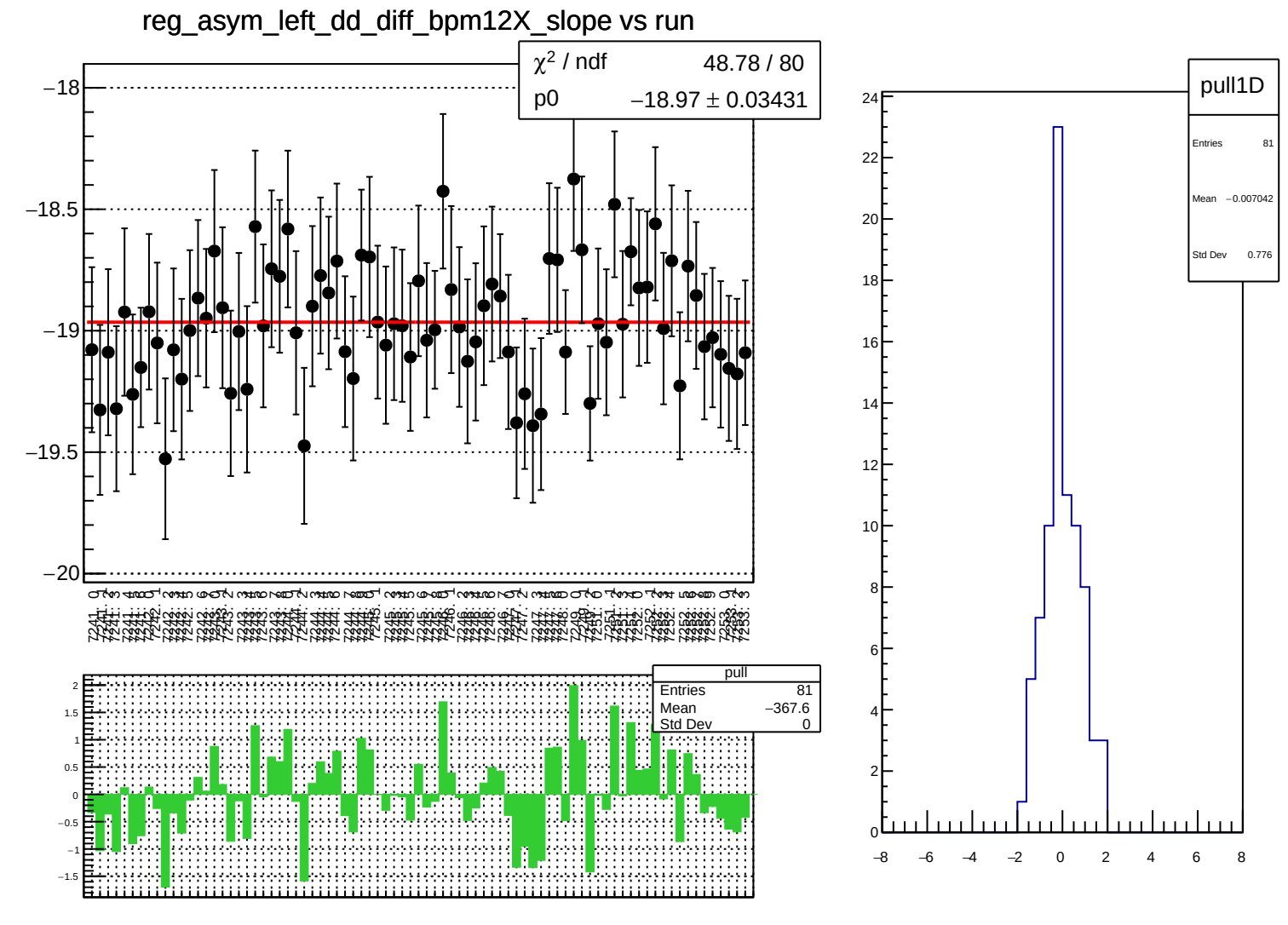

pull1D
Entries 81
Mean −0.01027
Std Dev 0.7357

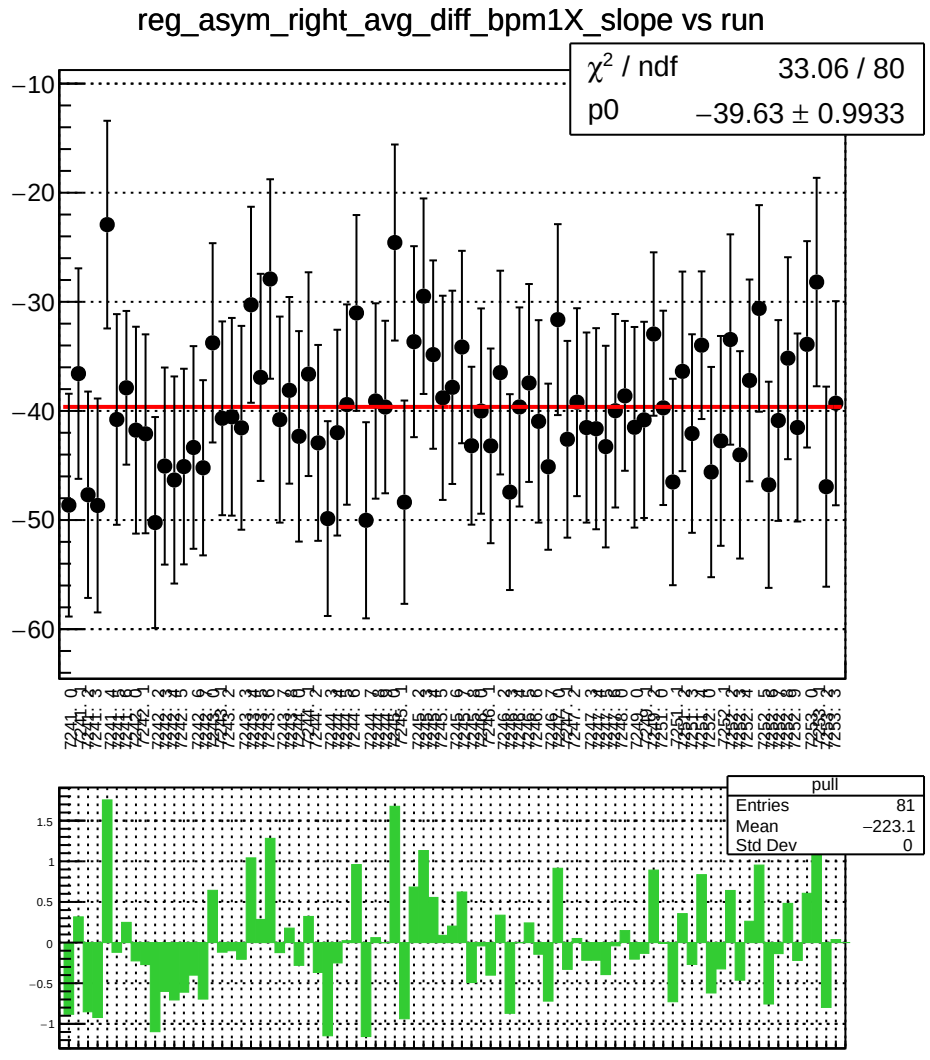

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 33.24 / 80
p0 8.066 ± 0.9734
pull
Entries 81
Mean 281.9
Std Dev 0

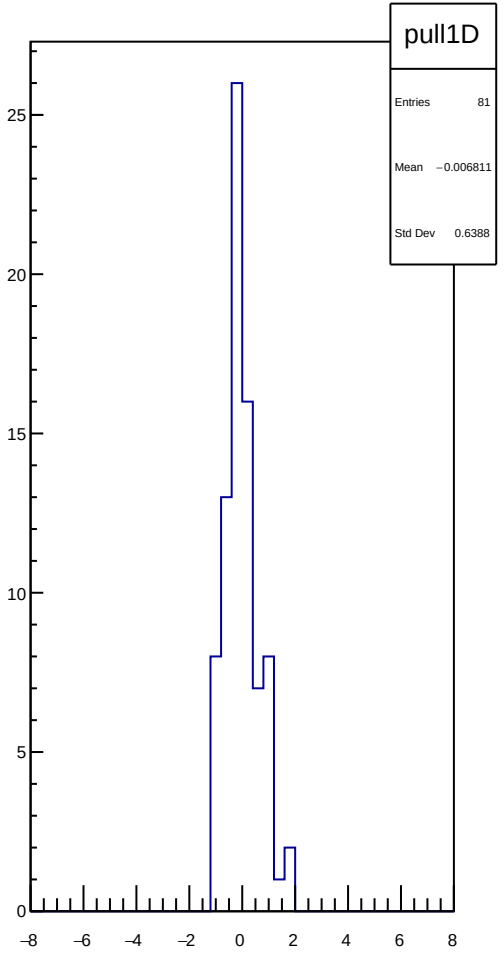

pull1D
Entries 81
Mean 0.002174
Std Dev 0.6406

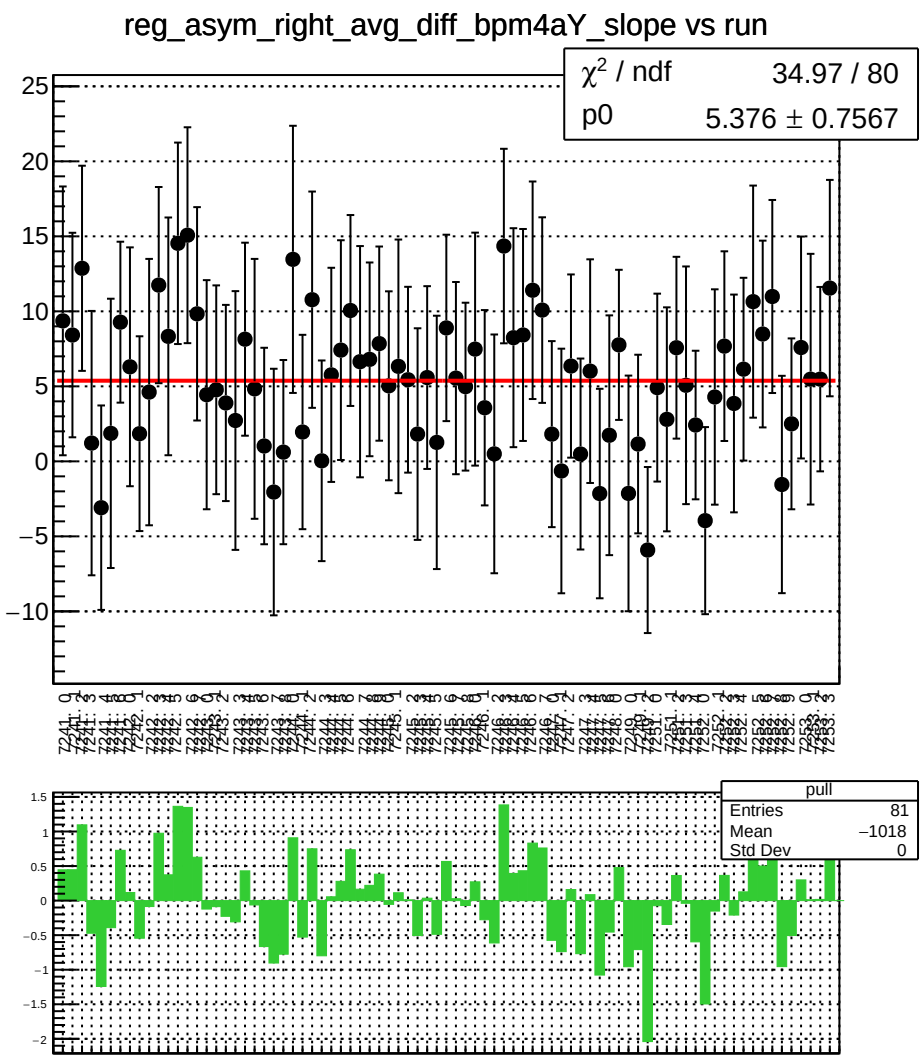

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 46.67 / 80
p0 5.6 ± 0.7688
pull
Entries 81
Mean −23.42
Std Dev 0

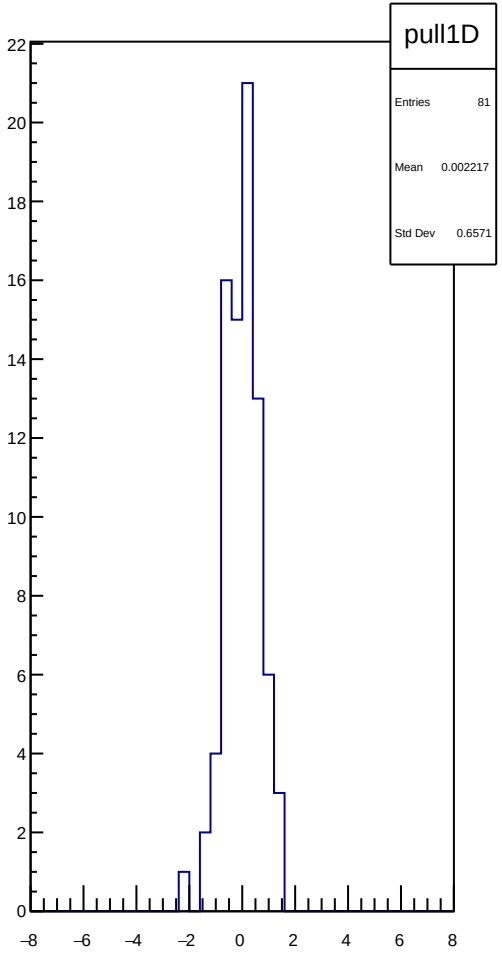

pull1D
Entries 81
Mean 0.01505
Std Dev 0.7589

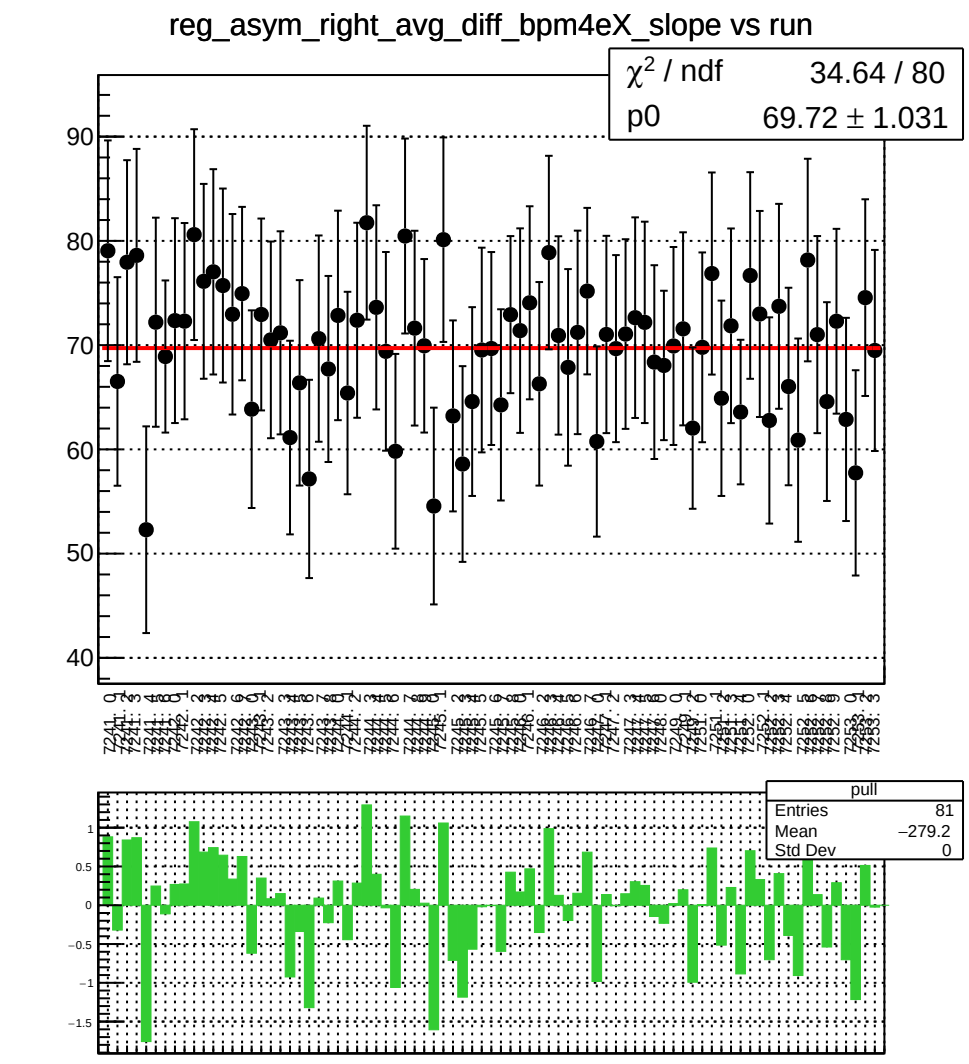

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 48.78 / 80
p0 −18.97 ± 0.03431
−18
−18.5
−19
−19.5
−20
pull
Entries 81
Mean −367.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 81
Mean −0.007042
Std Dev 0.776
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

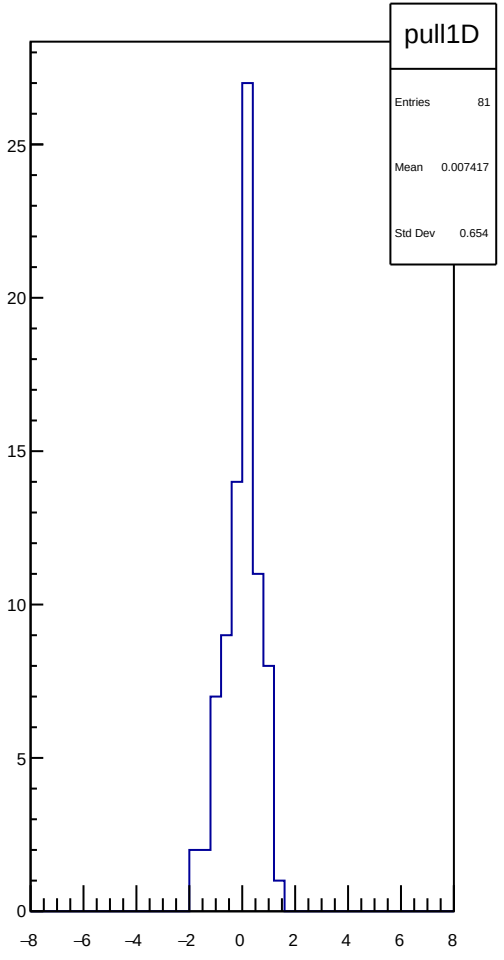

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 33.06 / 80
p0 −39.63 ± 0.9933
pull
Entries 81
Mean −223.1
Std Dev 0

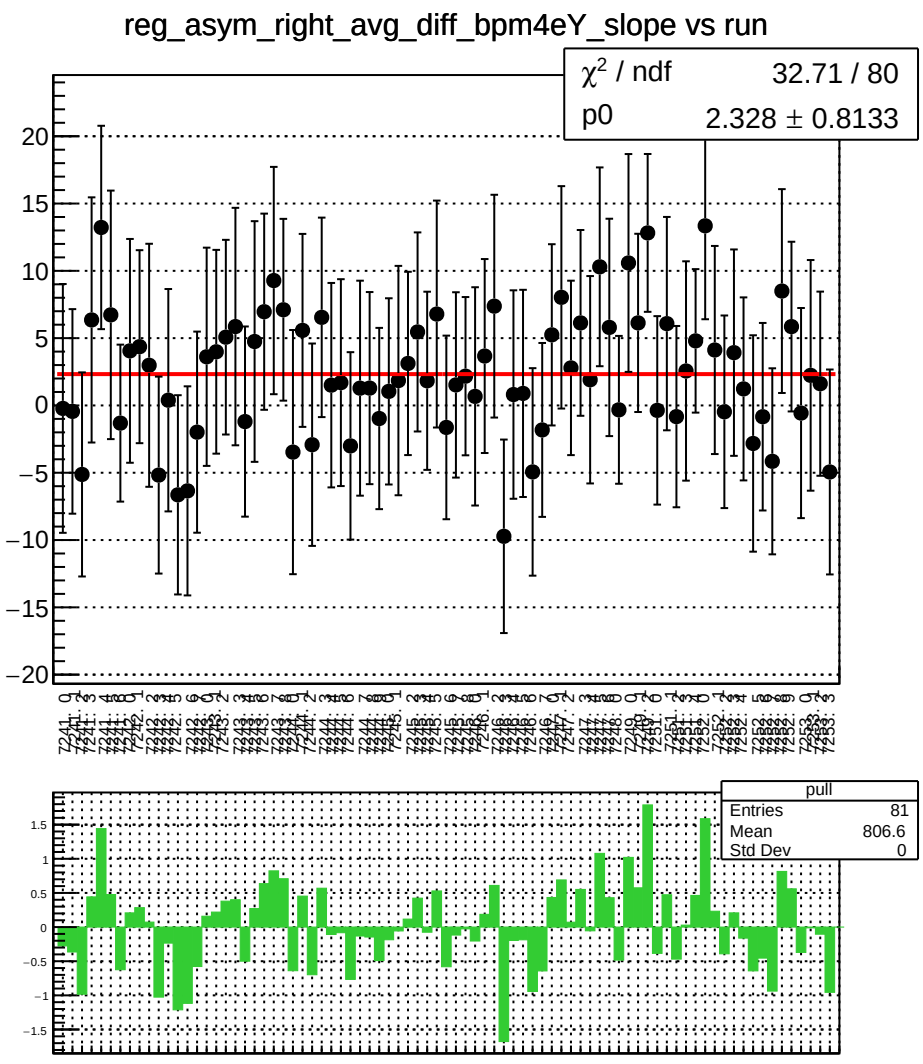

pull1D
Entries 81
Mean −0.006811
Std Dev 0.6388

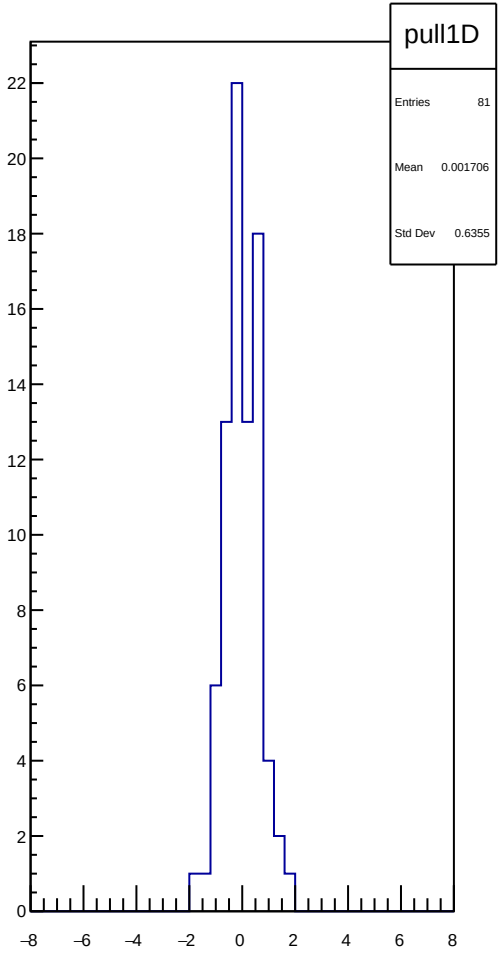

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 34.97 / 80
p0 5.376 ± 0.7567
pull
Entries 81
Mean −1018
Std Dev 0

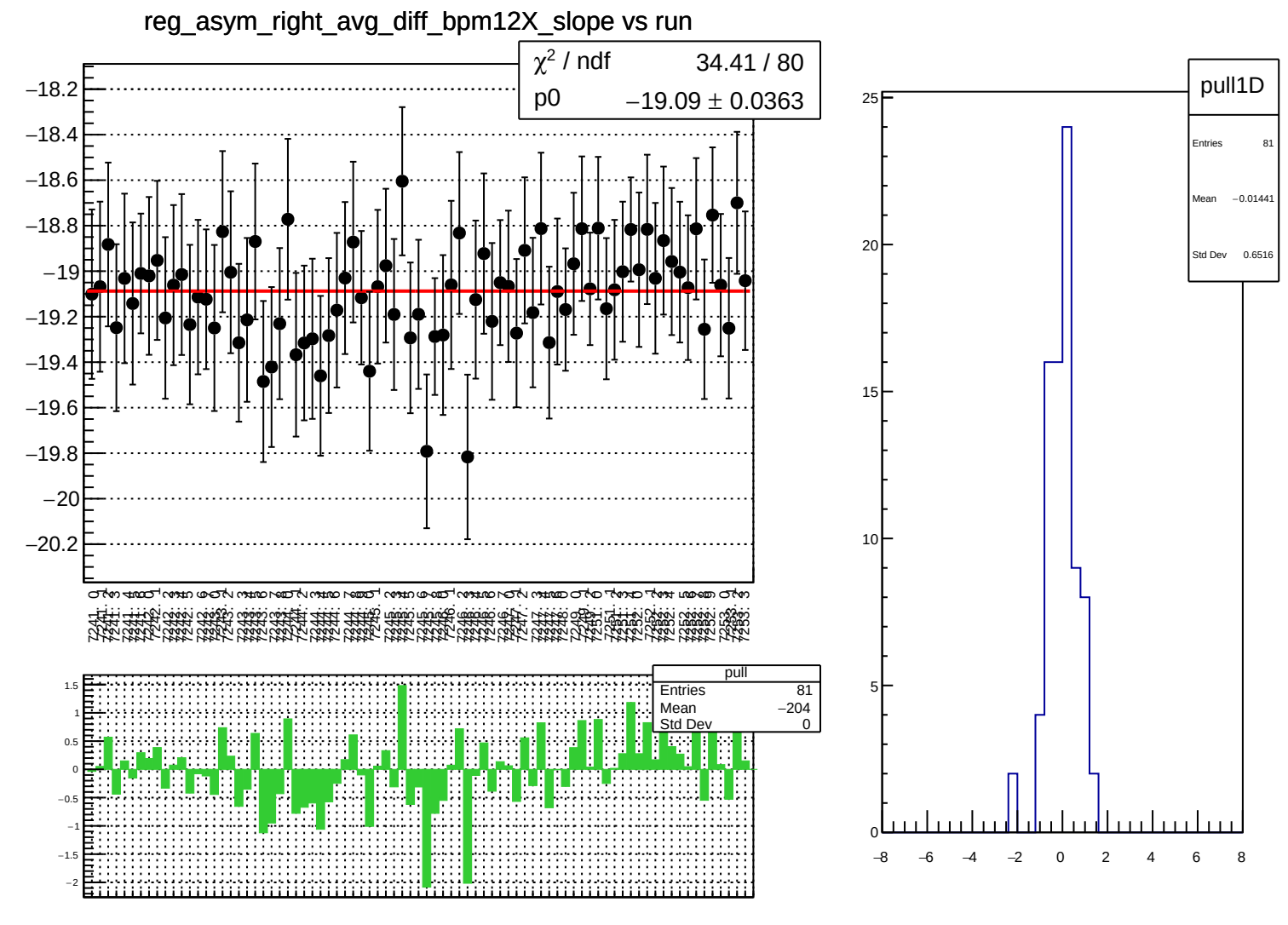

pull1D
Entries 81
Mean 0.002217
Std Dev 0.6571

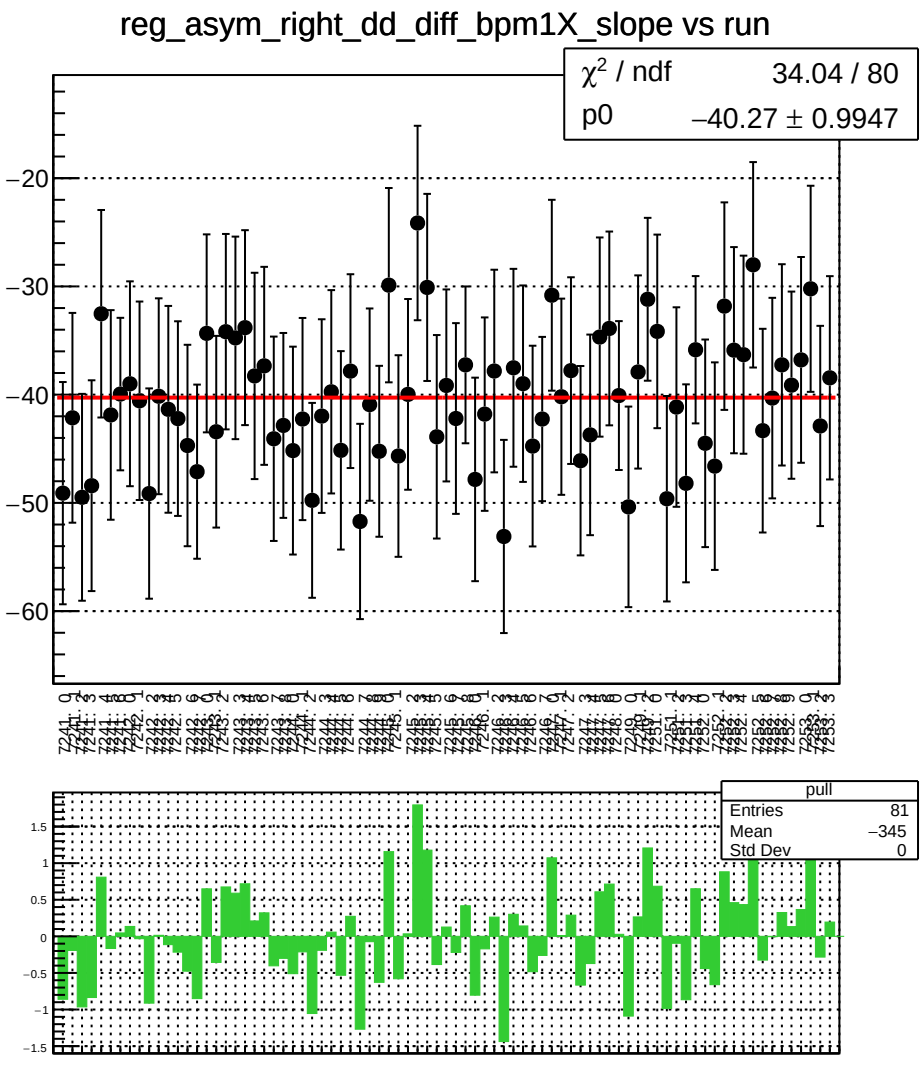

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 34.64 / 80
p0 69.72 ± 1.031
pull
Entries 81
Mean −279.2
Std Dev 0

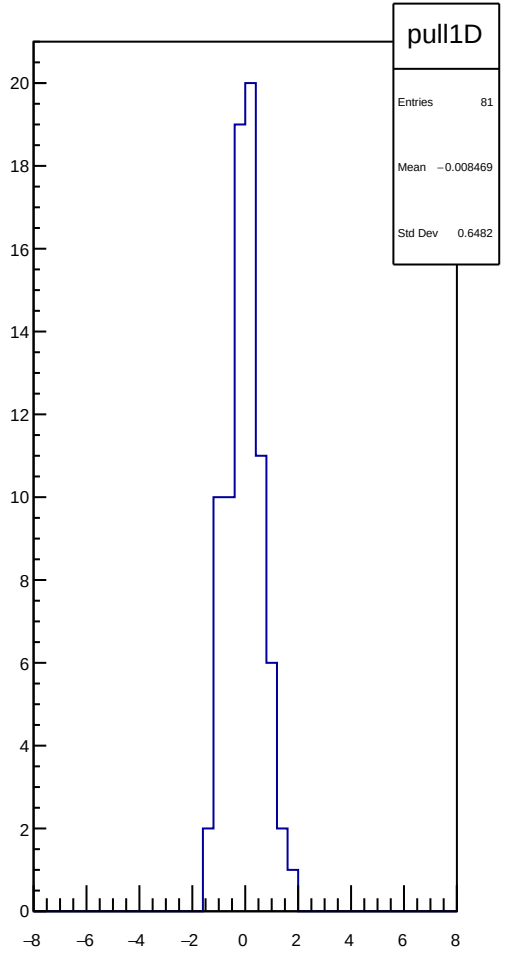

pull1D
Entries 81
Mean 0.007417
Std Dev 0.654

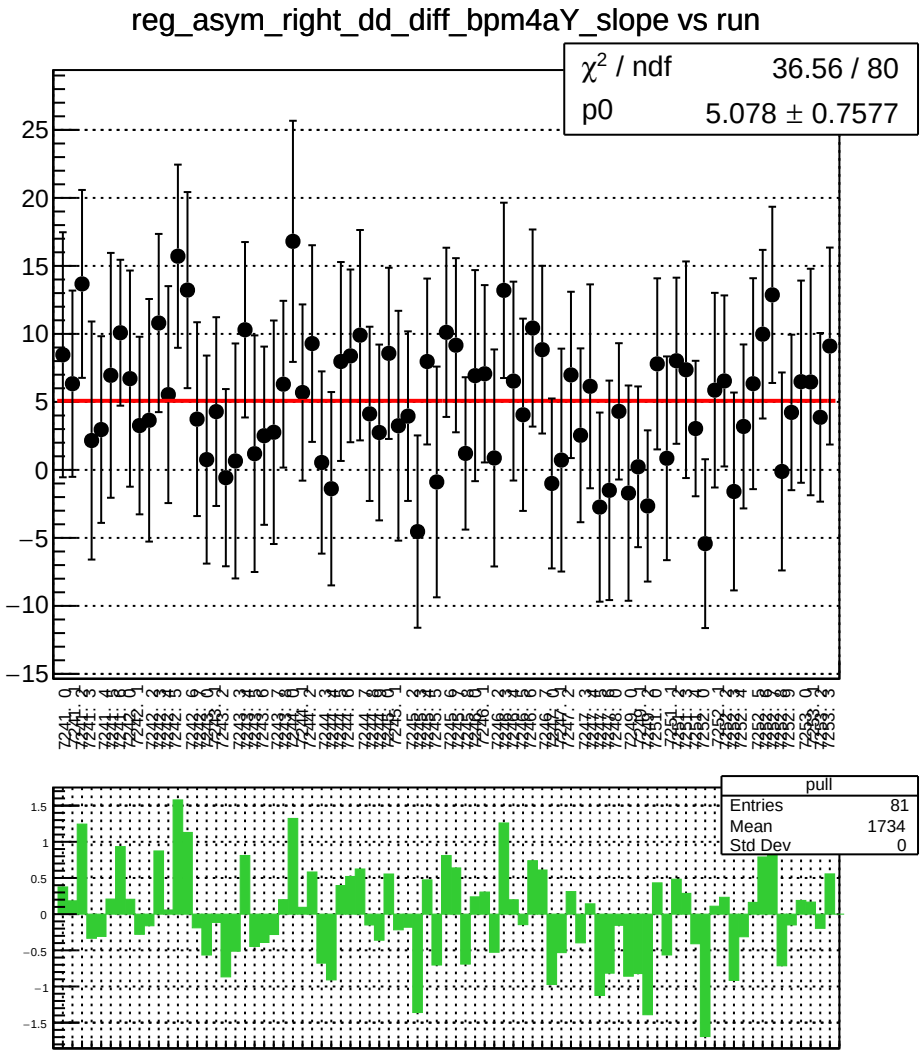

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 32.71 / 80
p0 2.328 ± 0.8133
pull
Entries 81
Mean 806.6
Std Dev 0

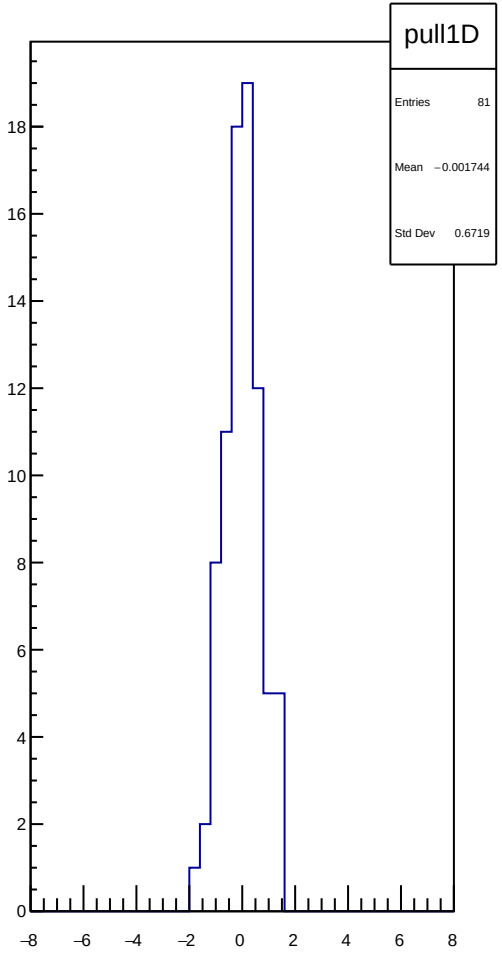

pull1D
Entries 81
Mean 0.001706
Std Dev 0.6355

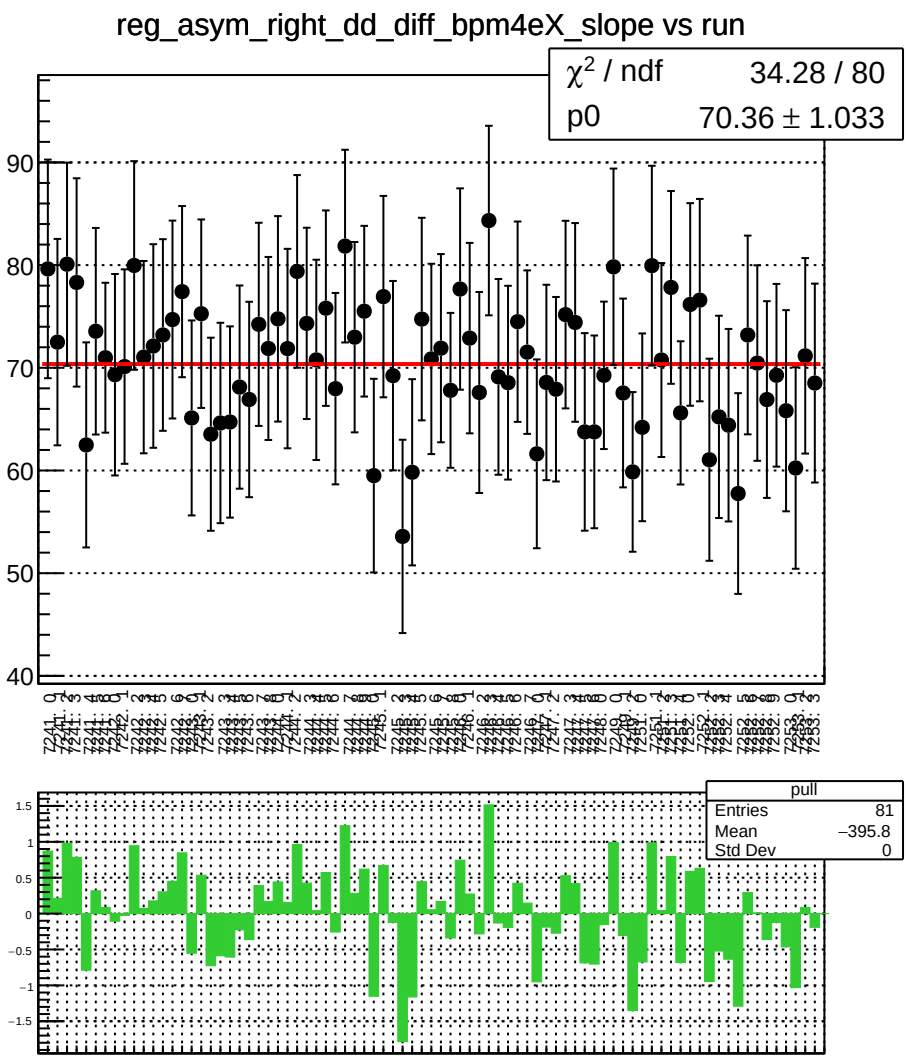

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 34.41 / 80
p0 −19.09 ± 0.0363
pull
Entries 81
Mean −204
Std Dev 0
pull1D
Entries 81
Mean −0.01441
Std Dev 0.6516

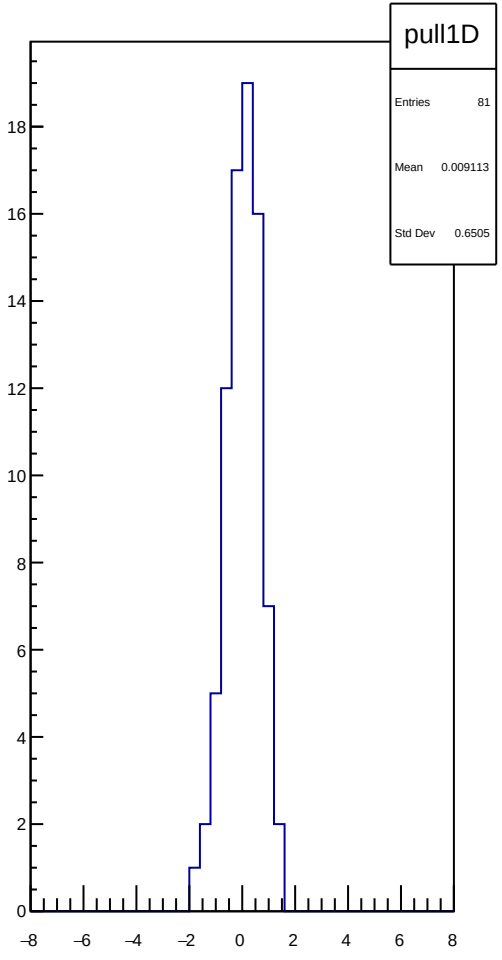

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 34.04 / 80
p0 −40.27 ± 0.9947
pull
Entries 81
Mean −345
Std Dev 0

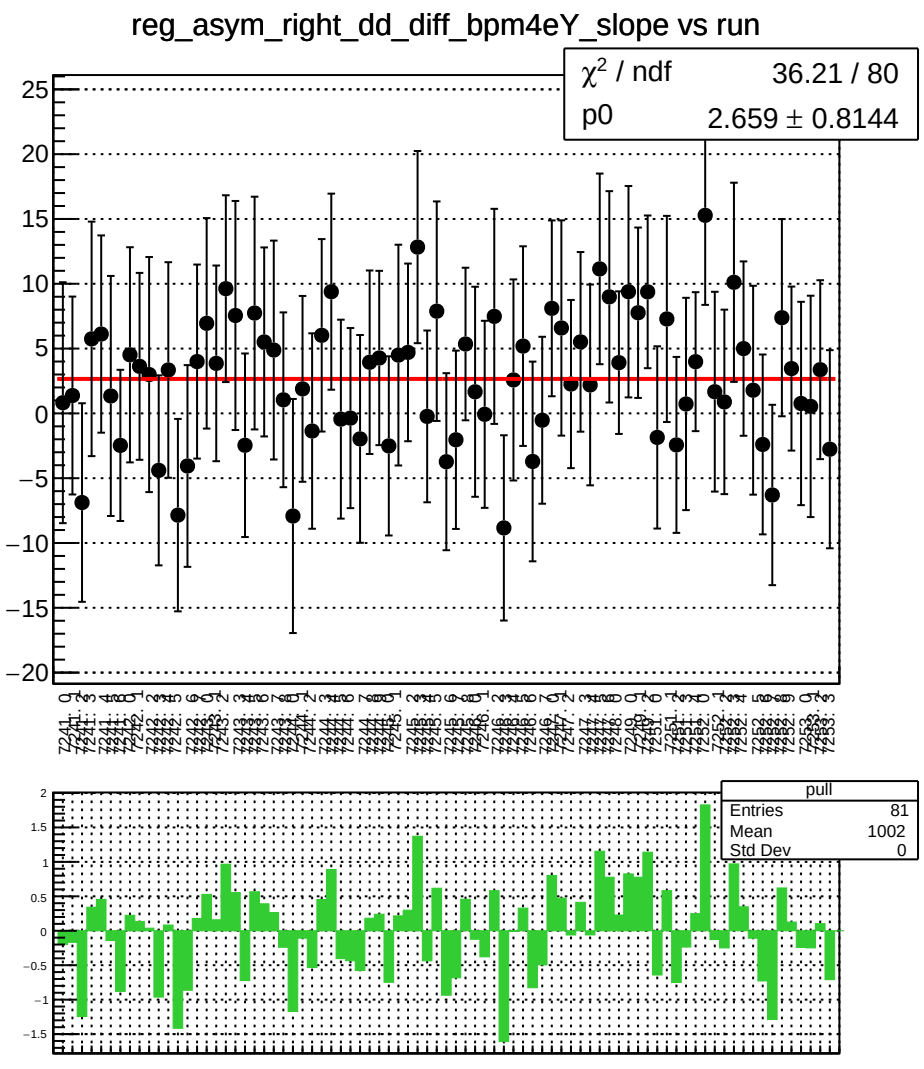

pull1D
Entries 81
Mean −0.008469
Std Dev 0.6482

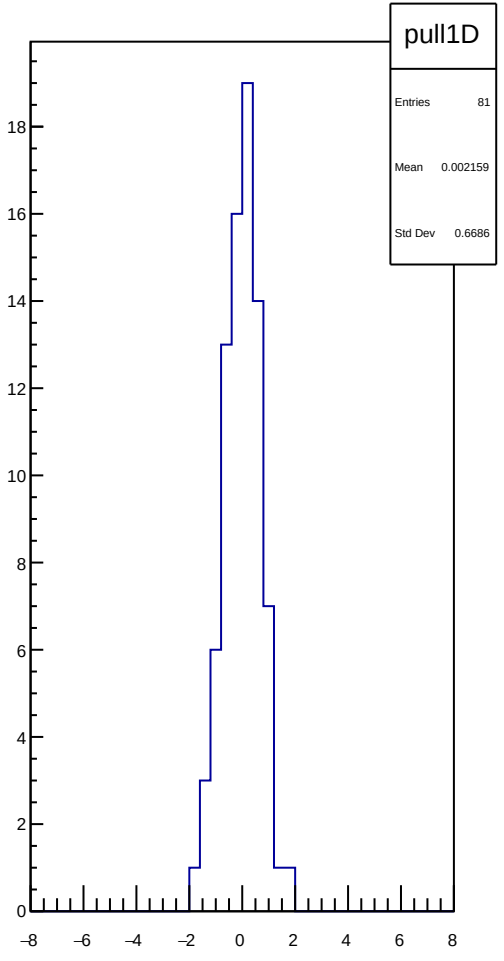

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 36.56 / 80
p0 5.078 ± 0.7577
pull
Entries 81
Mean 1734
Std Dev 0

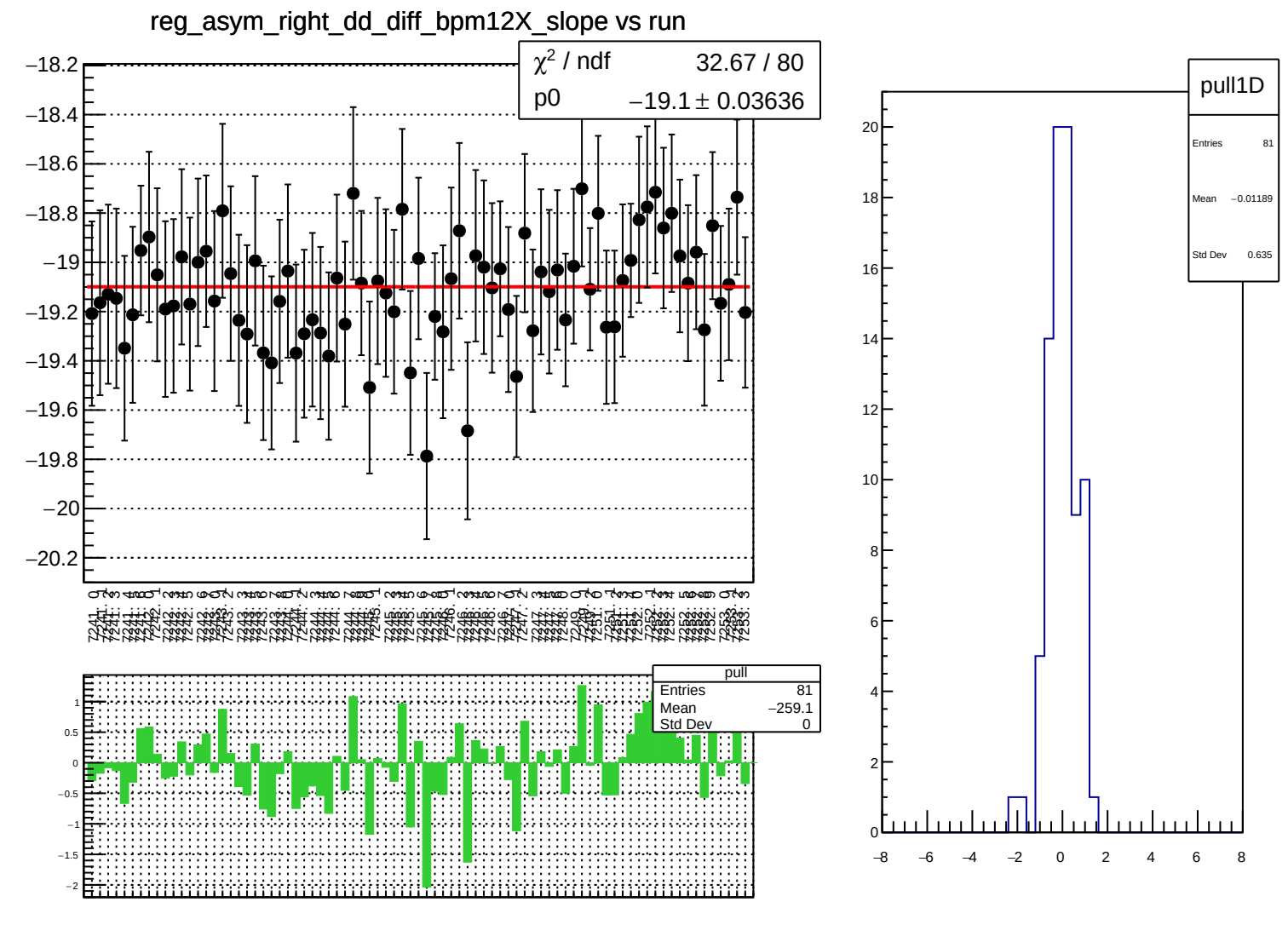

pull1D
Entries 81
Mean −0.001744
Std Dev 0.6719

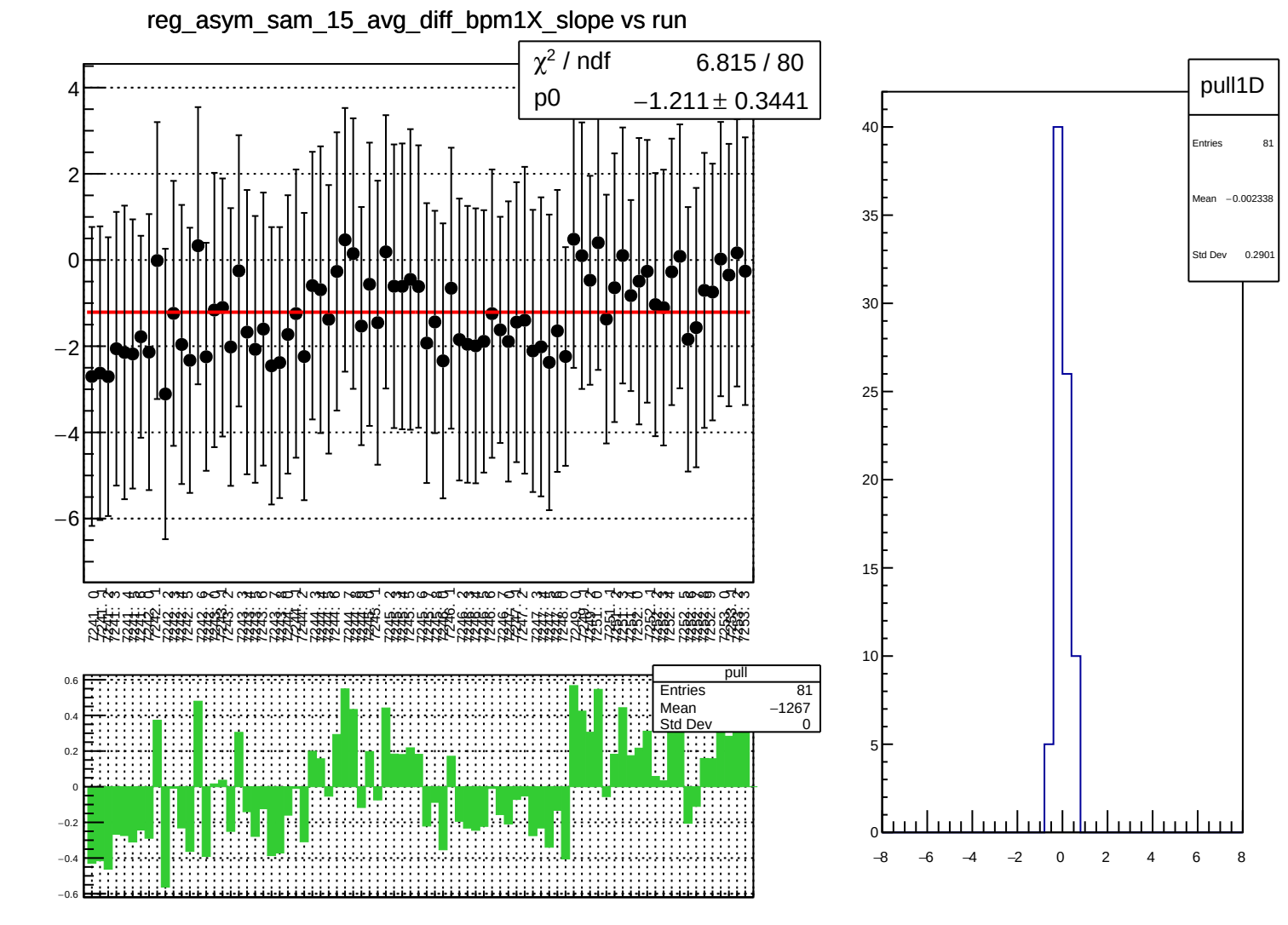

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 34.28 / 80
p0 70.36 ± 1.033
pull
Entries 81
Mean −395.8
Std Dev 0

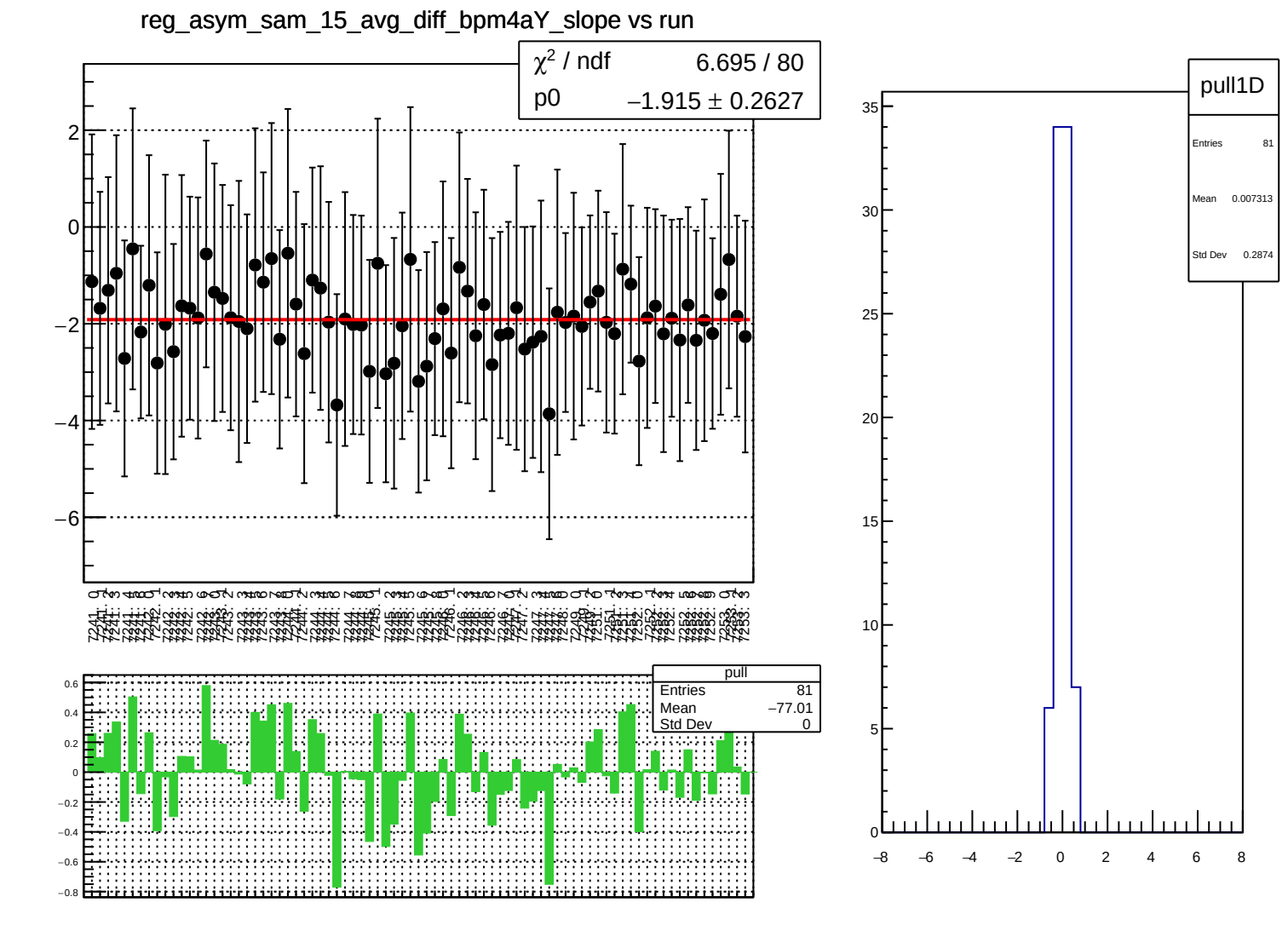

pull1D
Entries 81
Mean 0.009113
Std Dev 0.6505

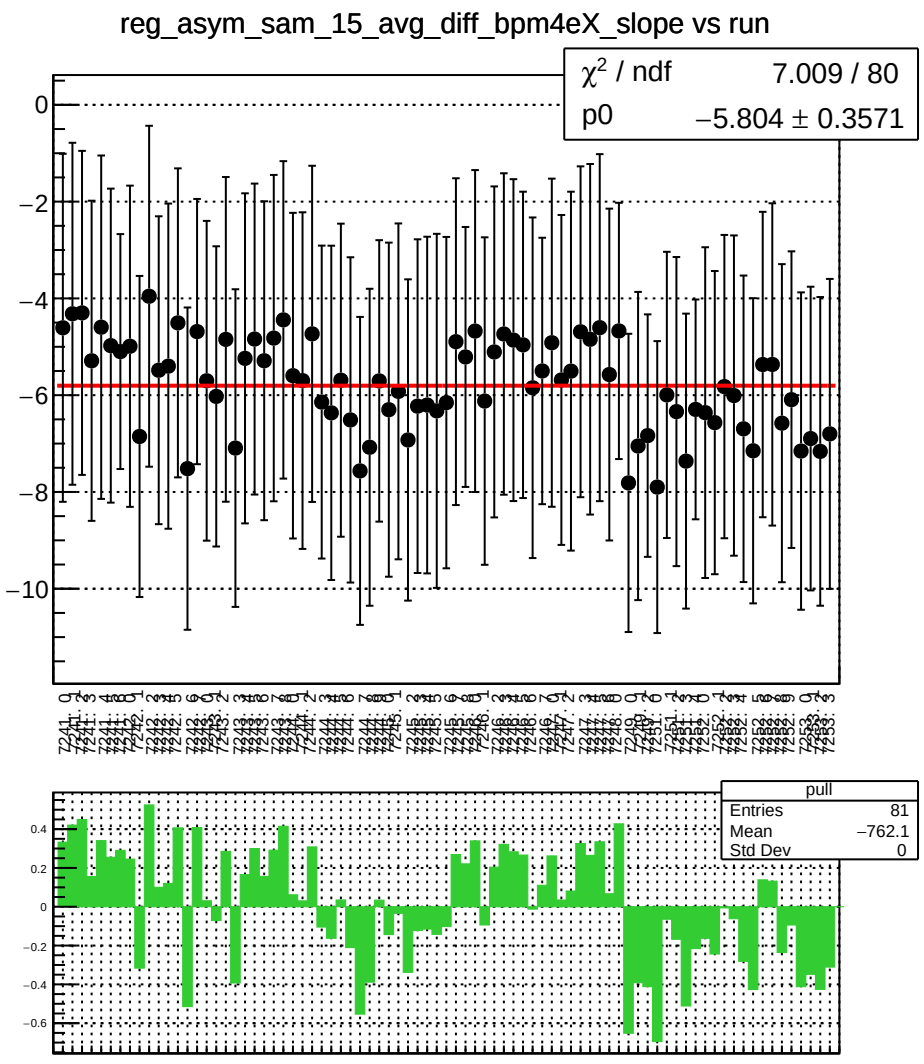

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 36.21 / 80
p0 2.659 ± 0.8144
pull
Entries 81
Mean 1002
Std Dev 0

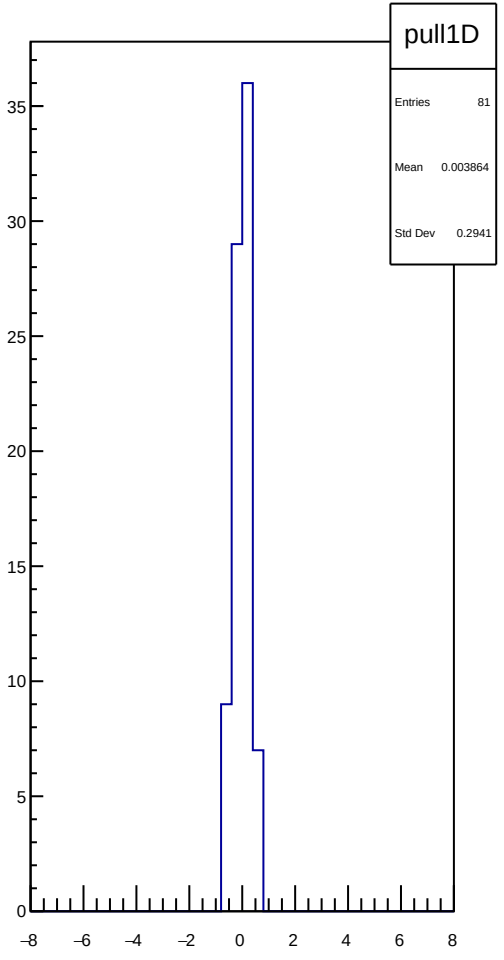

pull1D
Entries 81
Mean 0.002159
Std Dev 0.6686

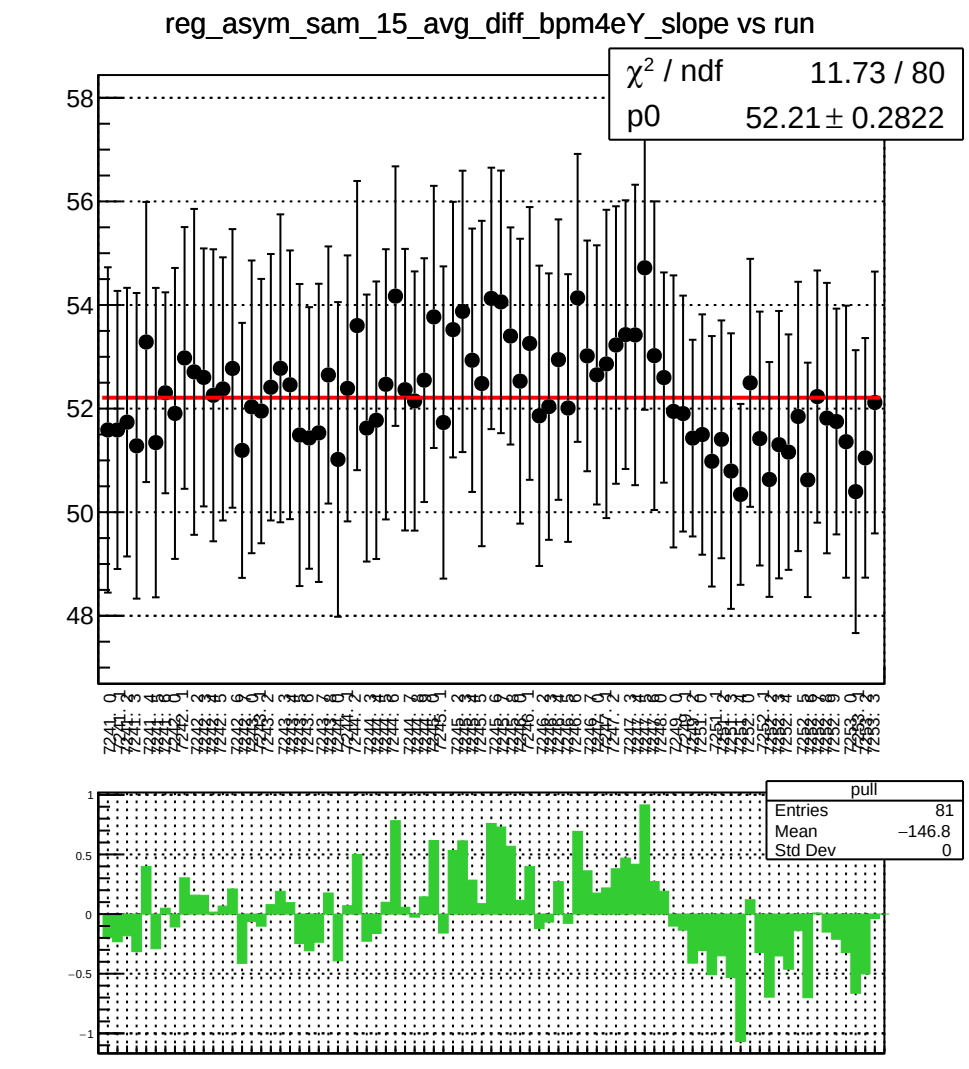

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 32.67 / 80
p0 −19.1 ± 0.03636
pull
Entries 81
Mean −259.1
Std Dev 0
pull1D
Entries 81
Mean −0.01189
Std Dev 0.635

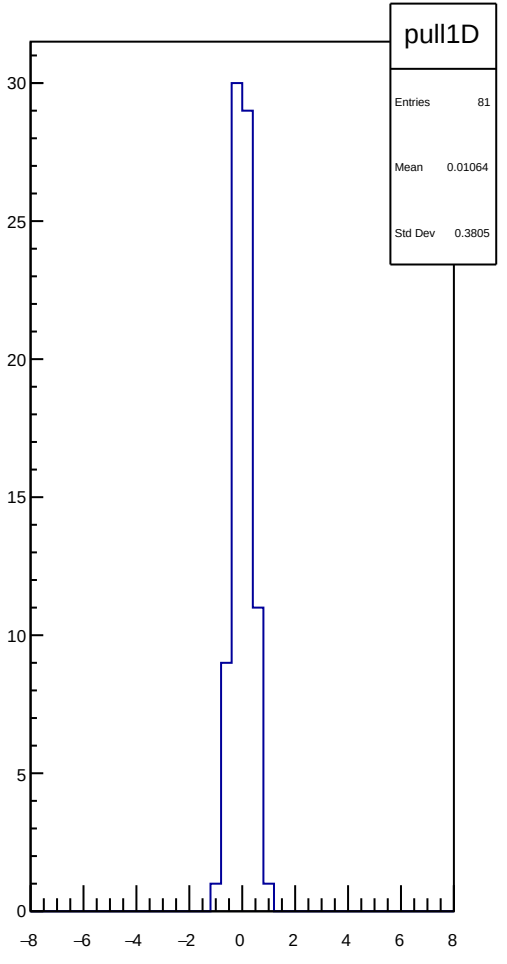

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 6.815 / 80
p0 −1.211 ± 0.3441
pull
Entries 81
Mean −1267
Std Dev 0
pull1D
Entries 81
Mean −0.002338
Std Dev 0.2901

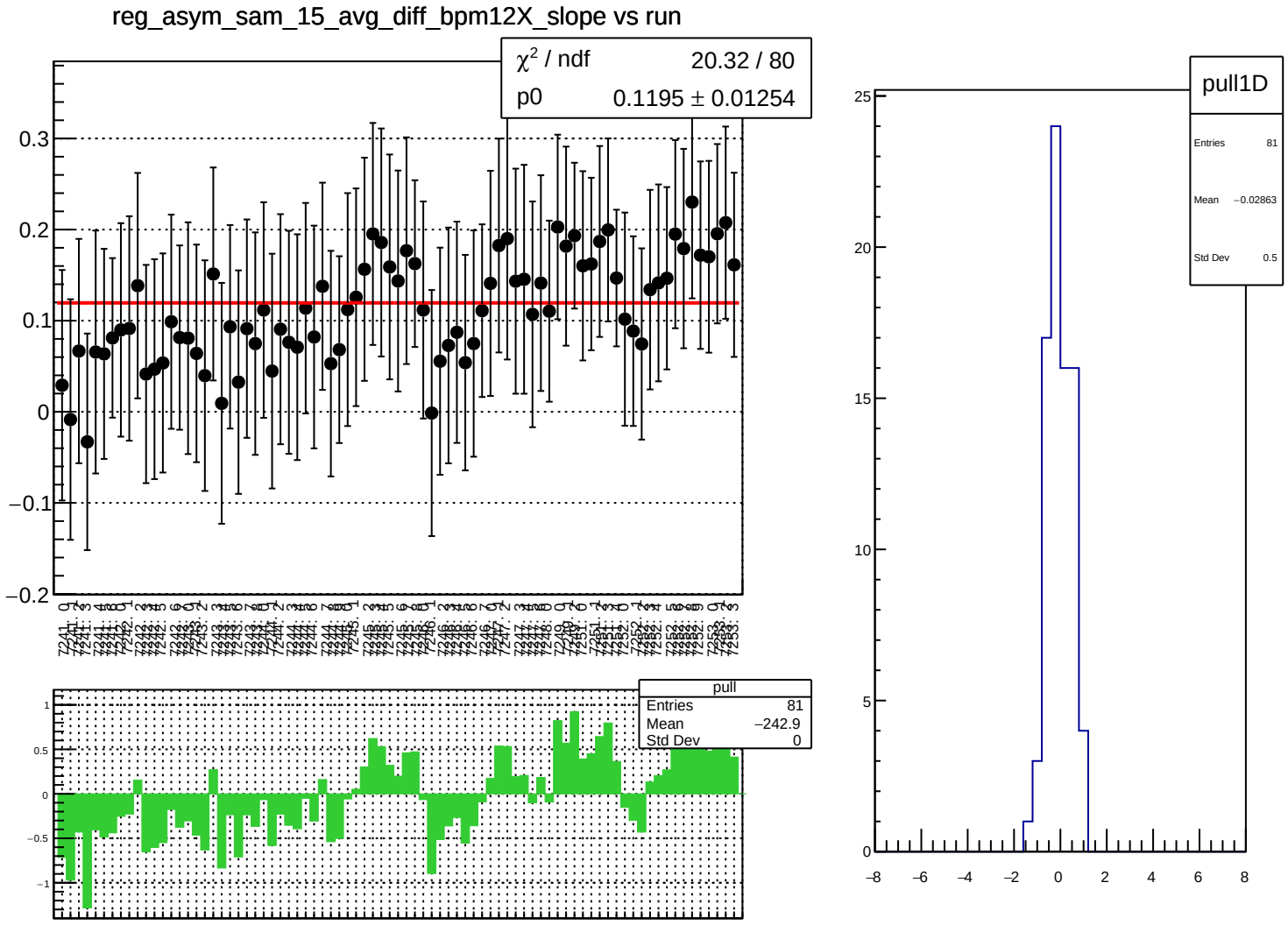

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.695 / 80
p0 −1.915 ± 0.2627
pull
Entries 81
Mean −77.01
Std Dev 0
pull1D
Entries 81
Mean 0.007313
Std Dev 0.2874

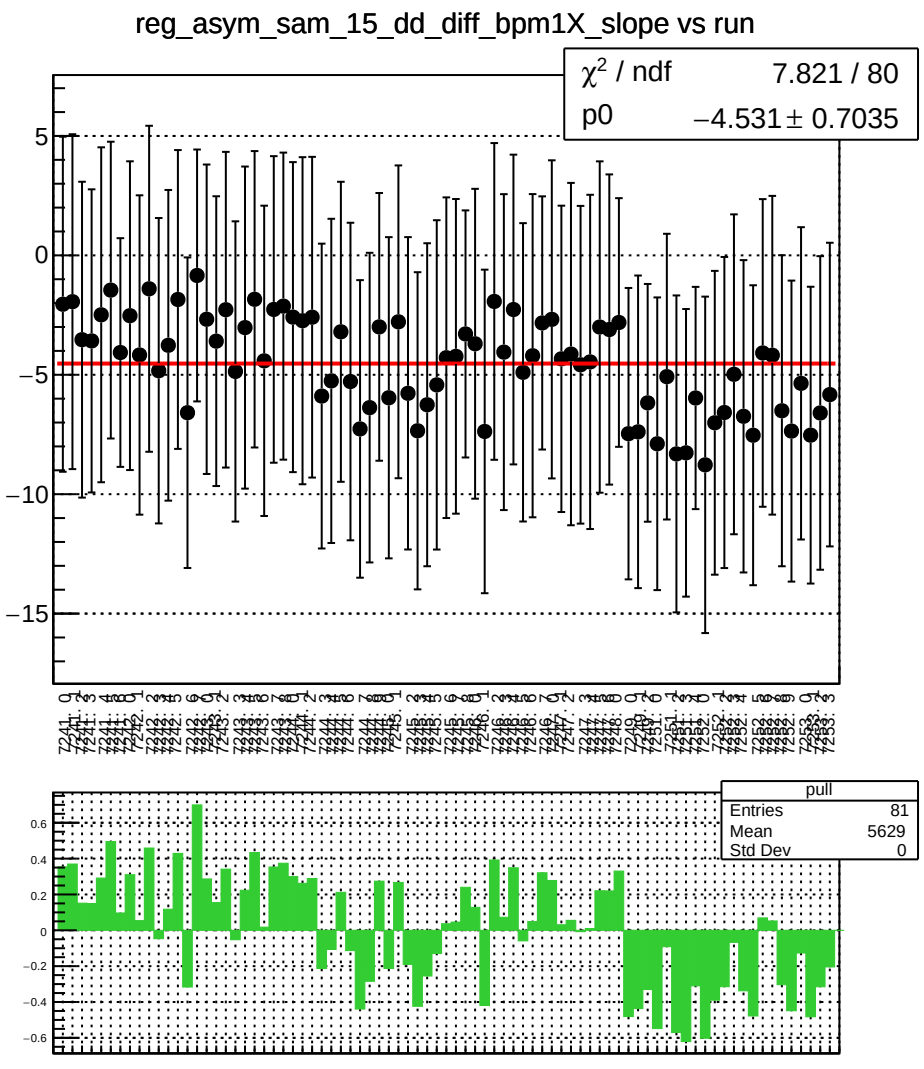

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.009 / 80
p0 −5.804 ± 0.3571
pull
Entries 81
Mean −762.1
Std Dev 0

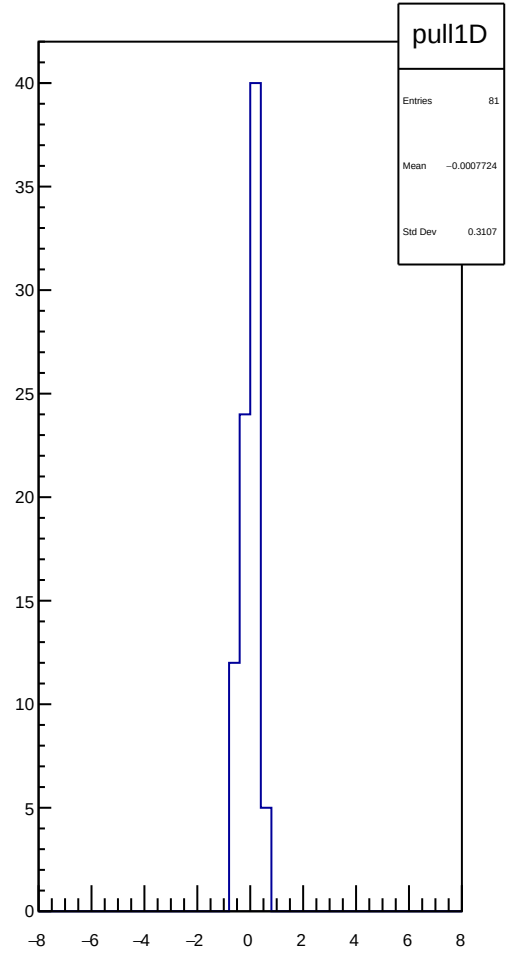

pull1D
Entries 81
Mean 0.003864
Std Dev 0.2941

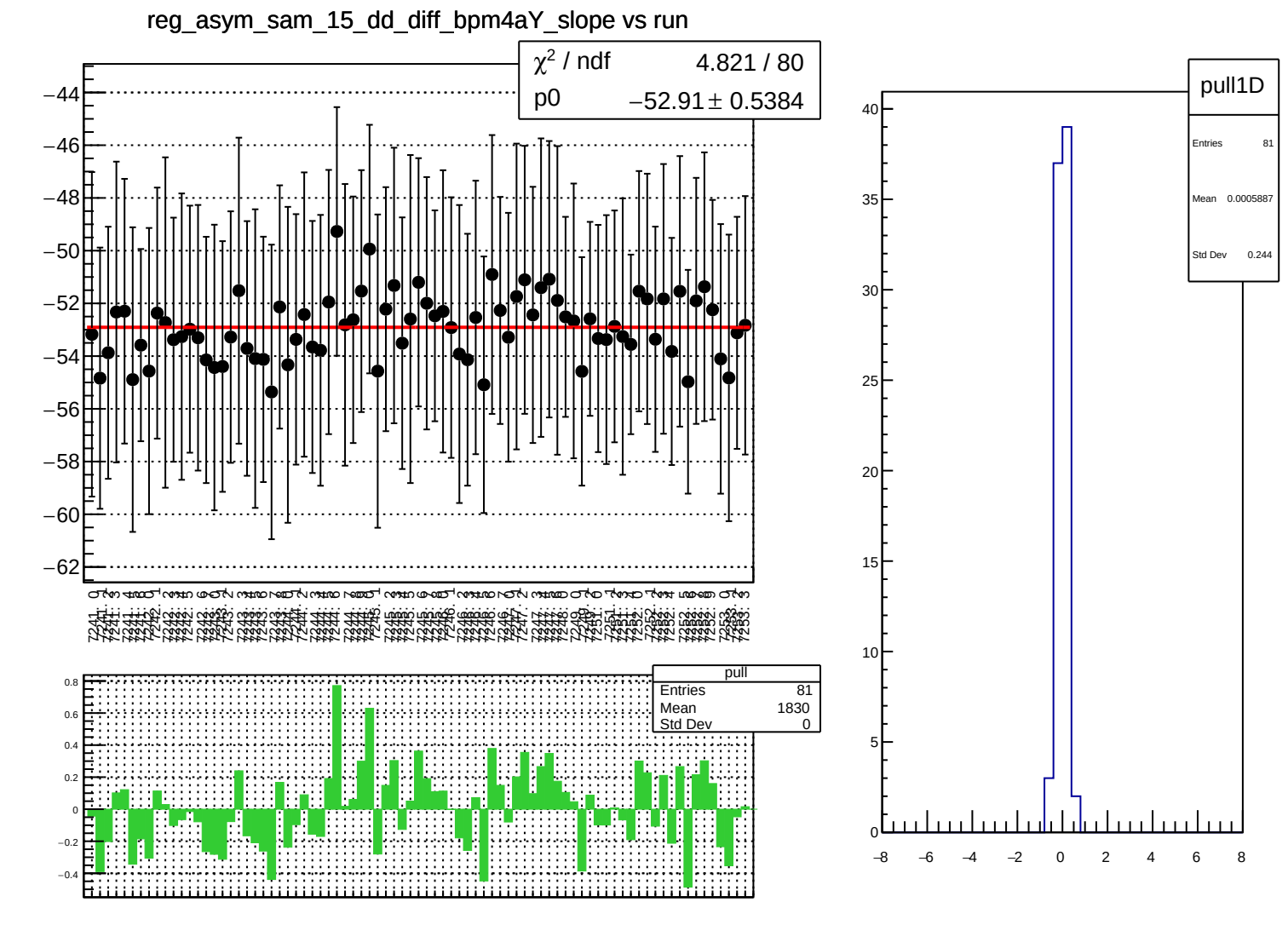

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.73 / 80
p0 52.21 ± 0.2822
58
56
54
52
50
48
pull
Entries 81
Mean −146.8
Std Dev 0
1
0.5
0
−0.5
−1

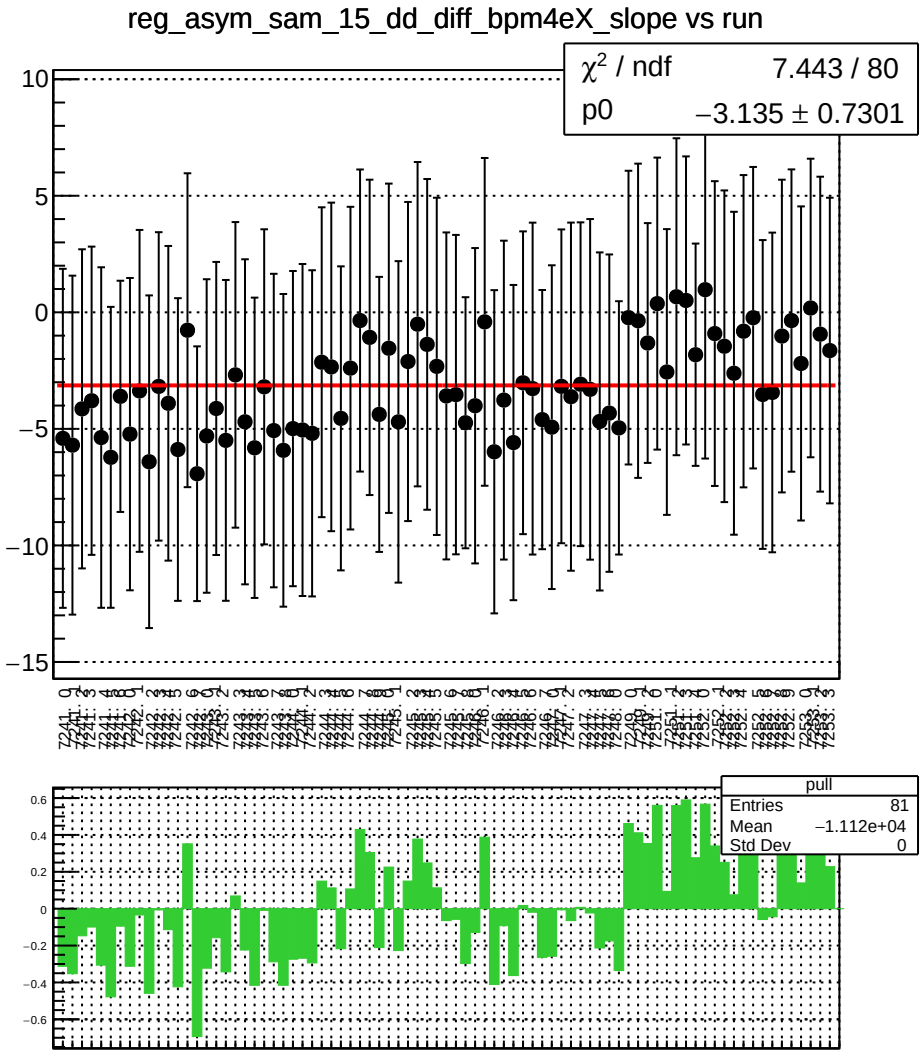

pull1D
Entries 81
Mean 0.01064
Std Dev 0.3805
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

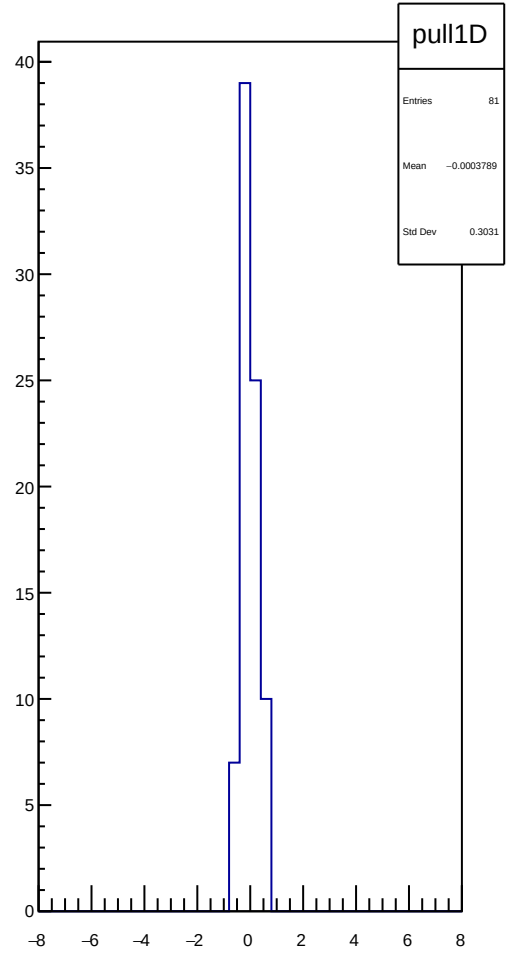

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 20.32 / 80
p0 0.1195 ± 0.01254
pull
Entries 81
Mean −242.9
Std Dev 0
pull1D
Entries 81
Mean −0.02863
Std Dev 0.5

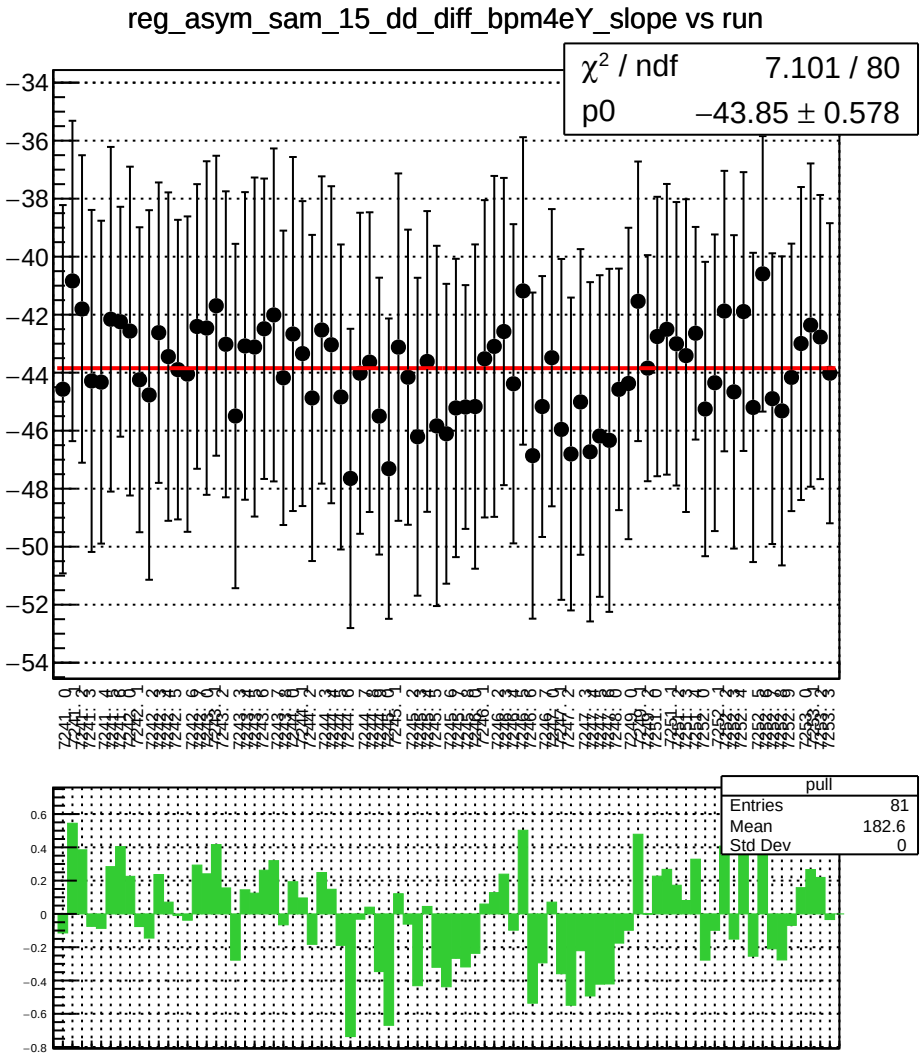

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 7.821 / 80
p0 −4.531 ± 0.7035
pull
Entries 81
Mean 5629
Std Dev 0

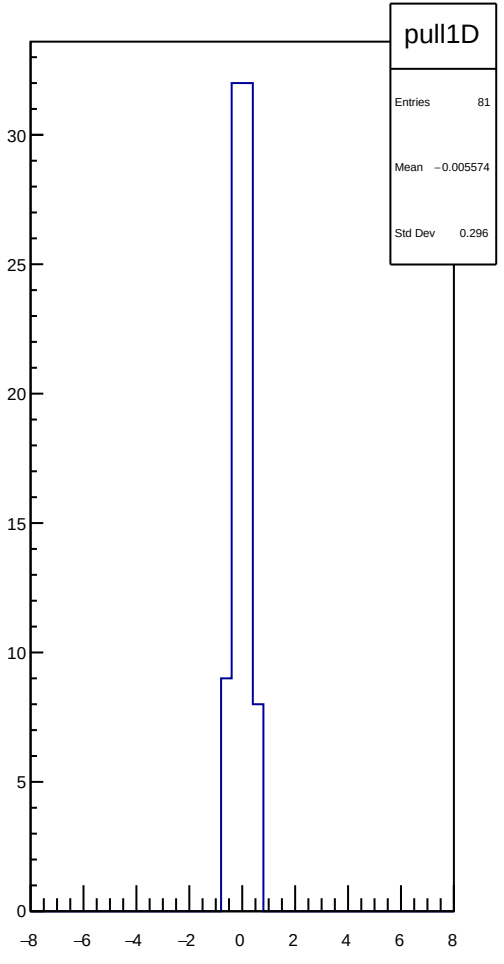

pull1D
Entries 81
Mean −0.0007724
Std Dev 0.3107

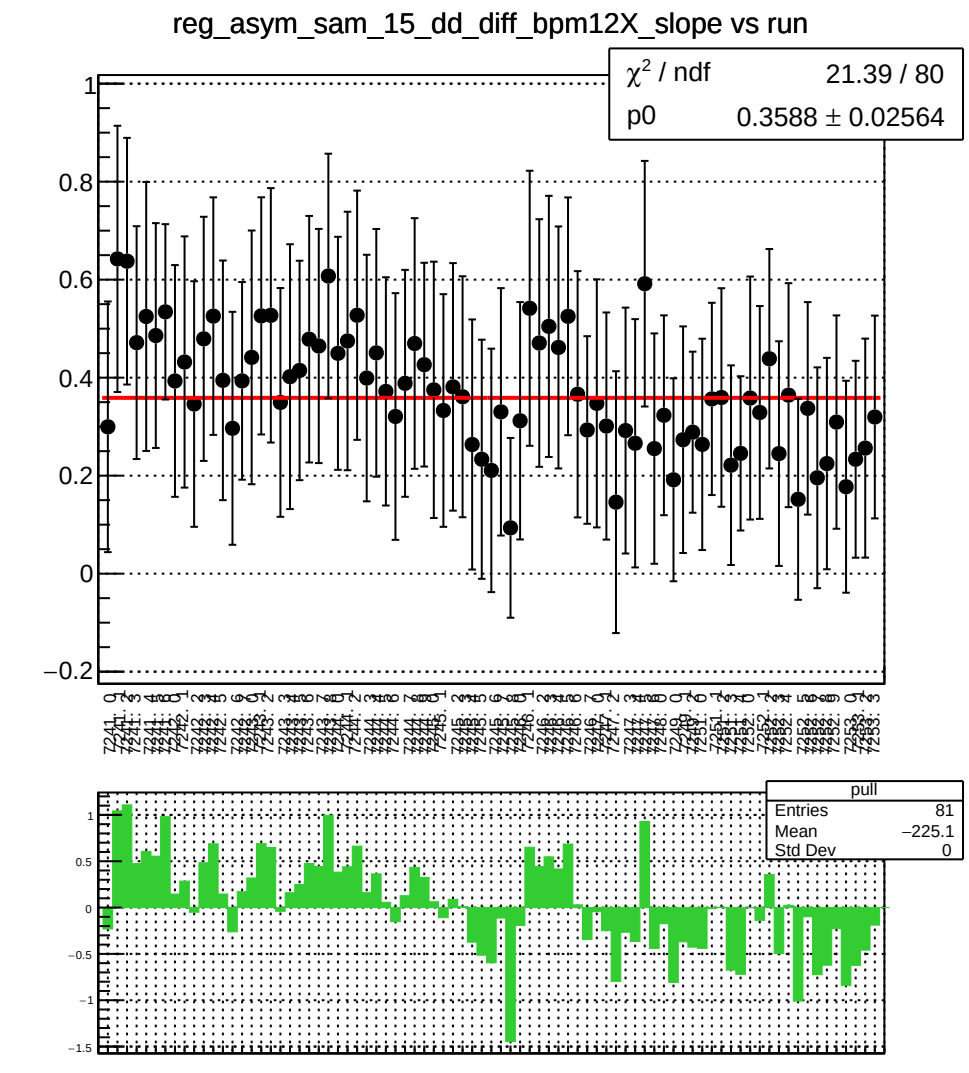

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.821 / 80
p0 −52.91 ± 0.5384
pull
Entries 81
Mean 1830
Std Dev 0
pull1D
Entries 81
Mean 0.0005887
Std Dev 0.244

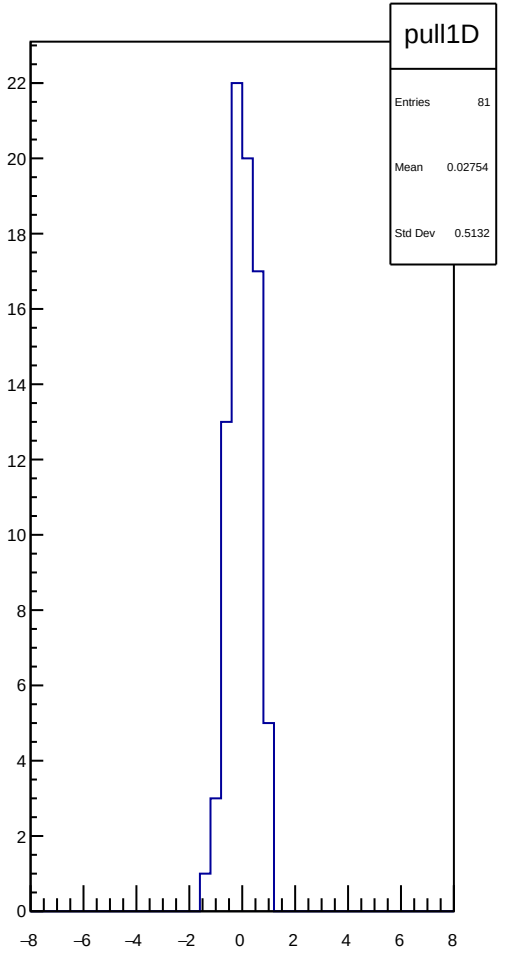

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.443 / 80
p0 −3.135 ± 0.7301
pull
Entries 81
Mean −1.112e+04
Std Dev 0

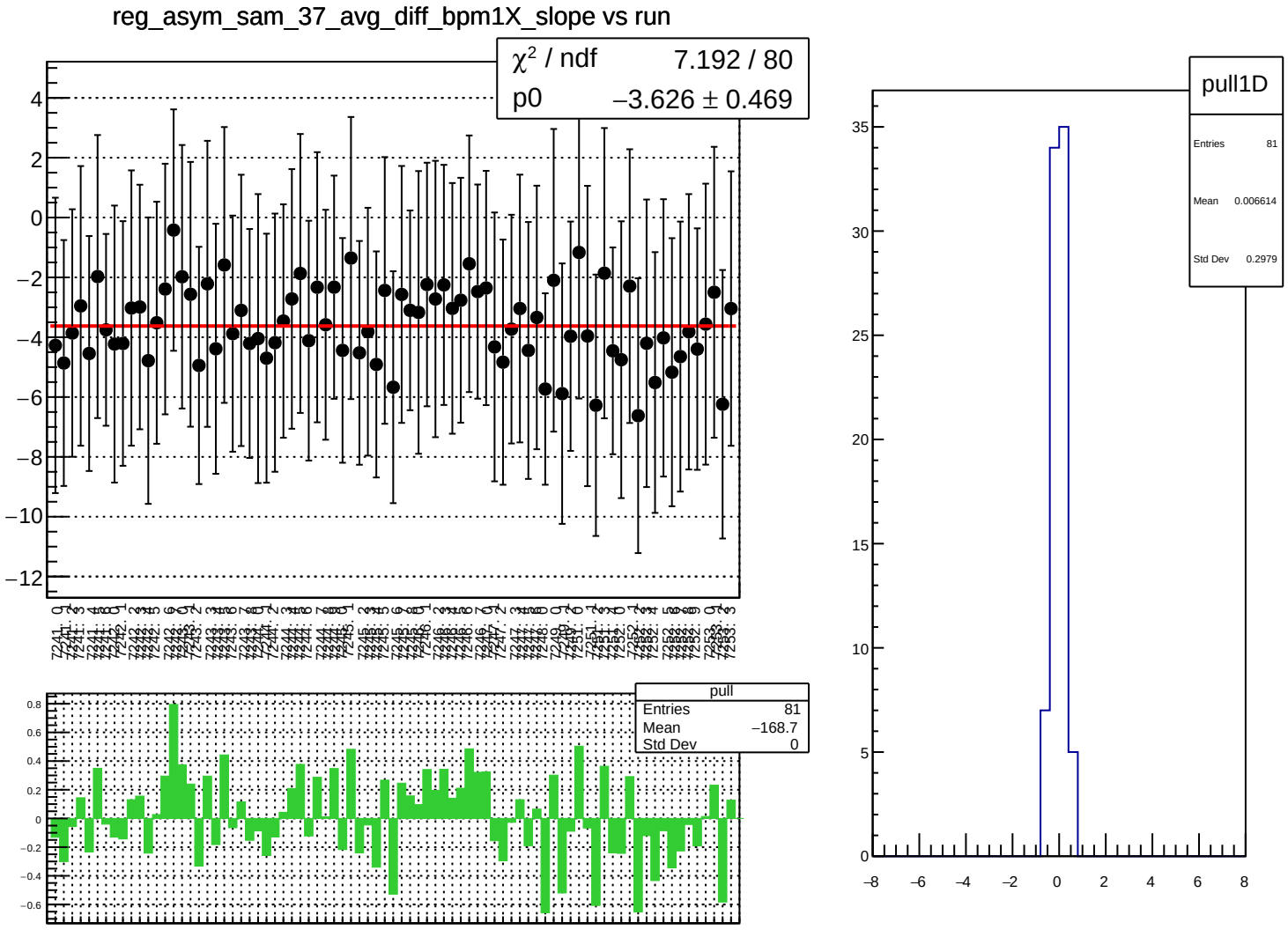

pull1D
Entries 81
Mean −0.0003789
Std Dev 0.3031

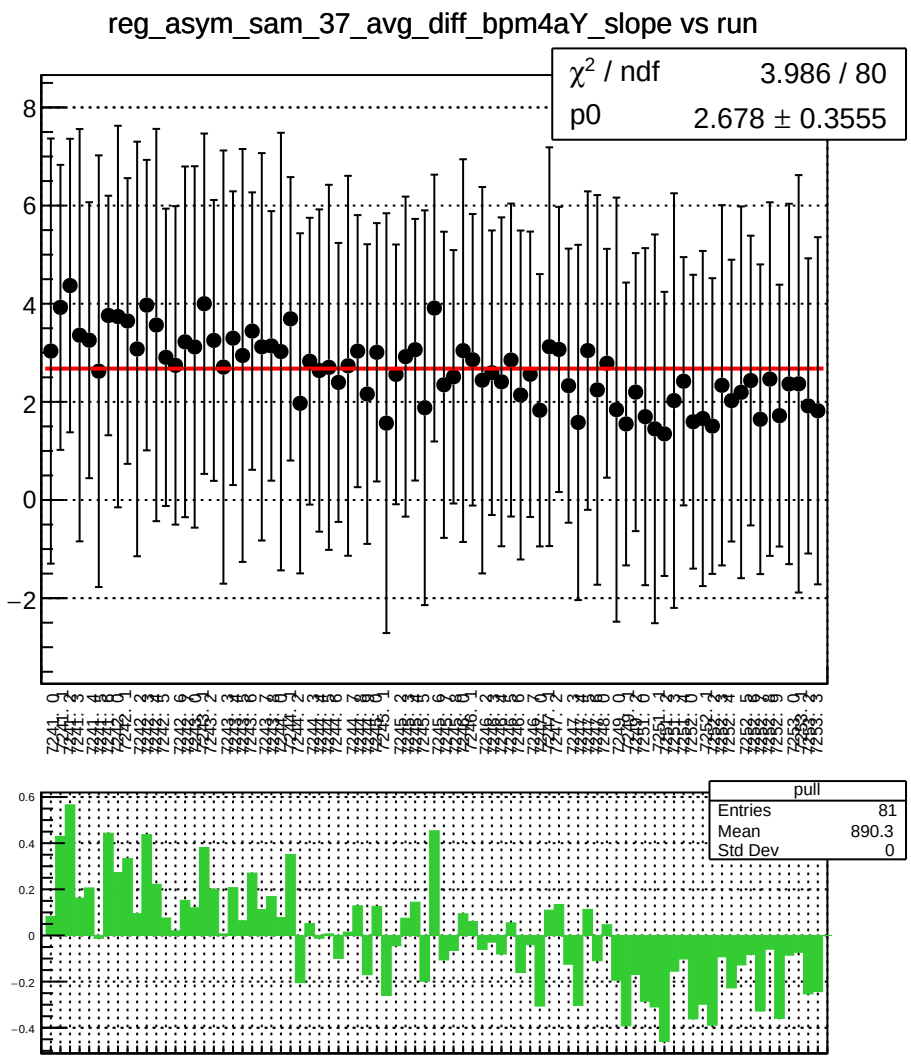

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.101 / 80
p0 −43.85 ± 0.578
pull
Entries 81
Mean 182.6
Std Dev 0

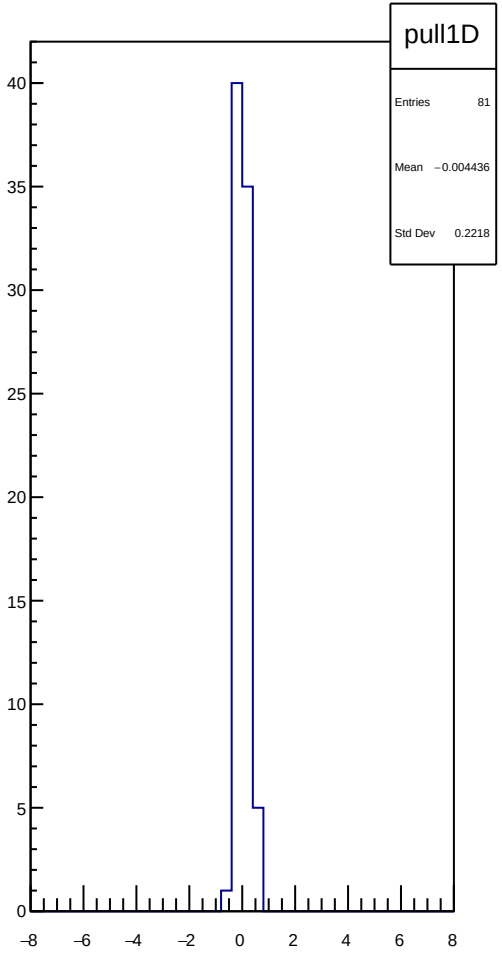

pull1D
Entries 81
Mean −0.005574
Std Dev 0.296

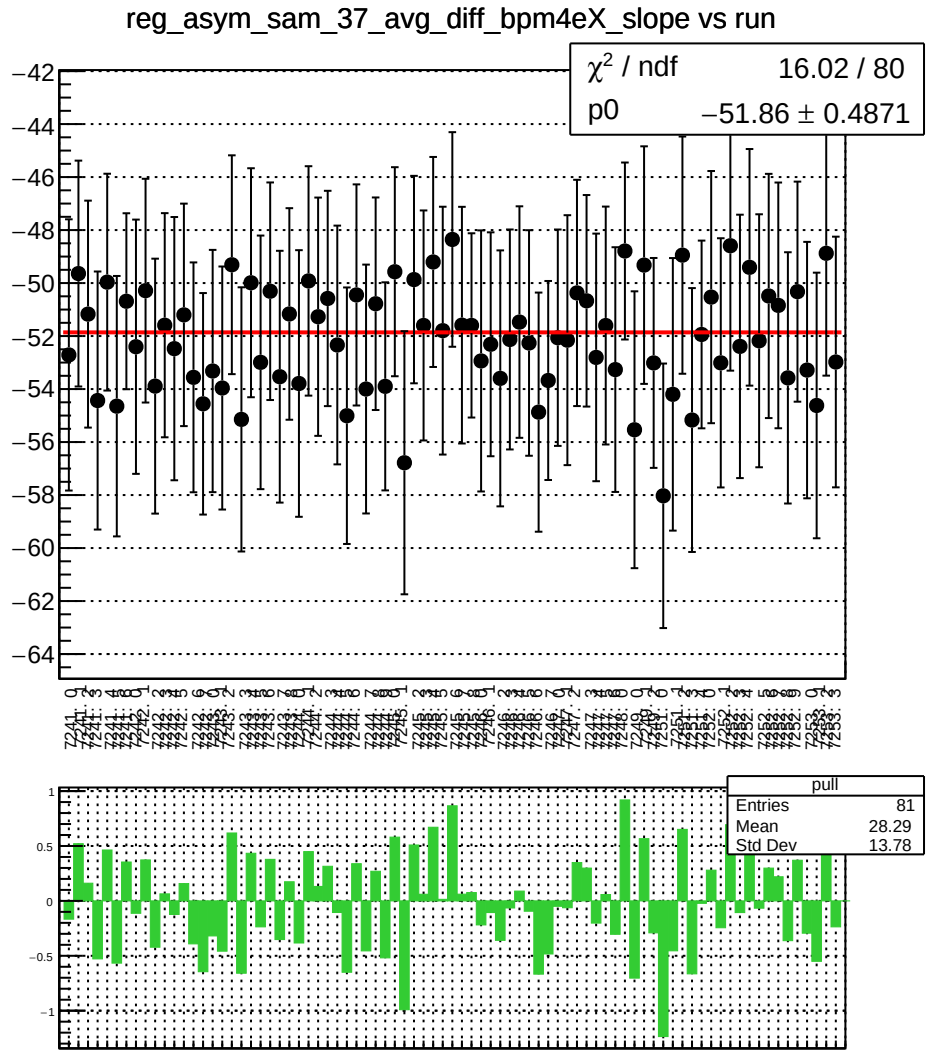

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 21.39 / 80
p0 0.3588 ± 0.02564
pull
Entries 81
Mean −225.1
Std Dev 0

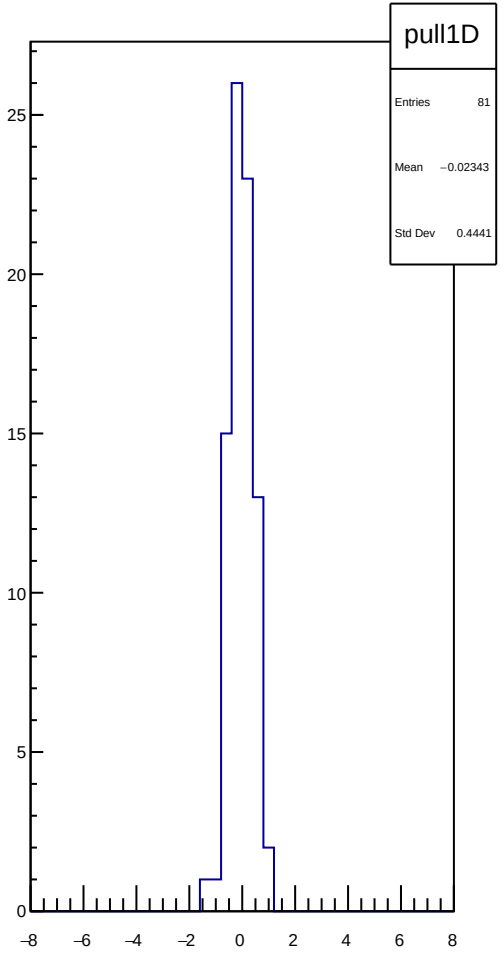

pull1D
Entries 81
Mean 0.02754
Std Dev 0.5132

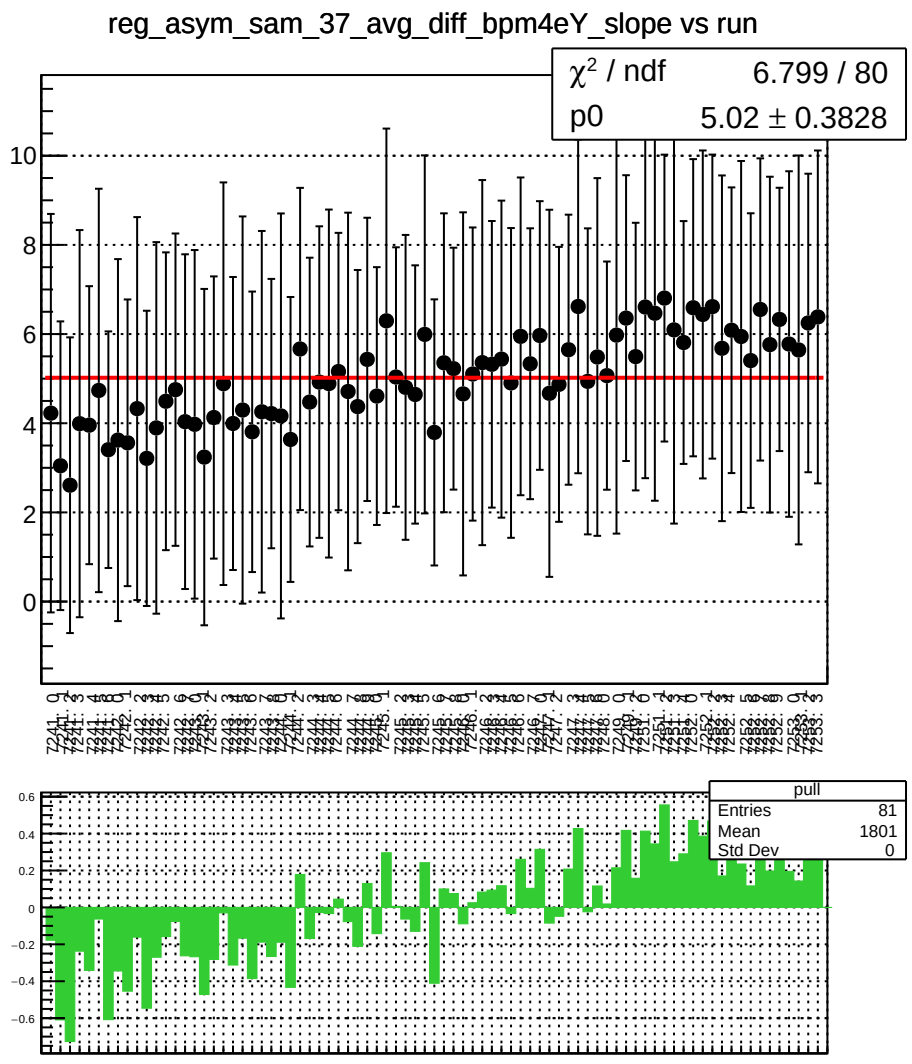

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 7.192 / 80
p0 −3.626 ± 0.469
pull
Entries 81
Mean −168.7
Std Dev 0
pull1D
Entries 81
Mean 0.006614
Std Dev 0.2979

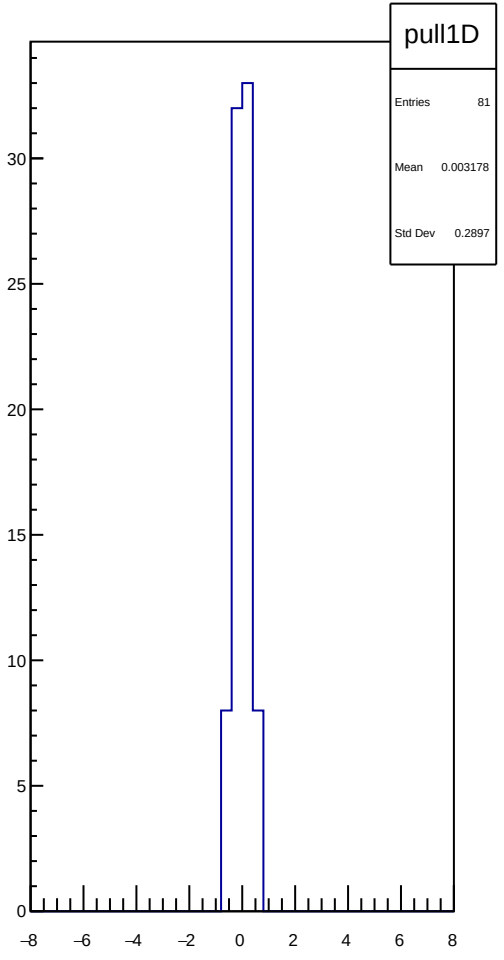

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.986 / 80
p0 2.678 ± 0.3555
pull
Entries 81
Mean 890.3
Std Dev 0

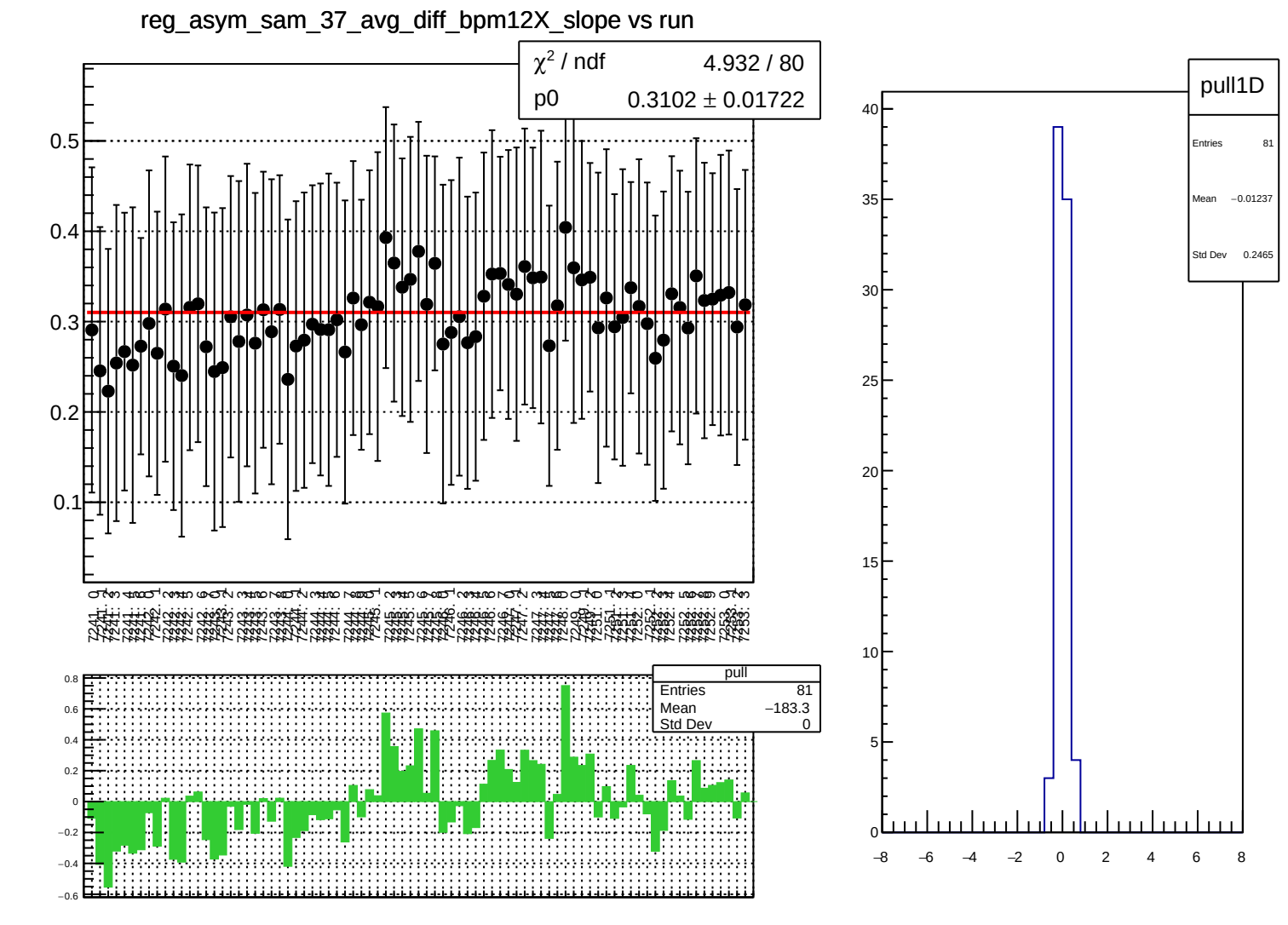

pull1D
Entries 81
Mean −0.004436
Std Dev 0.2218

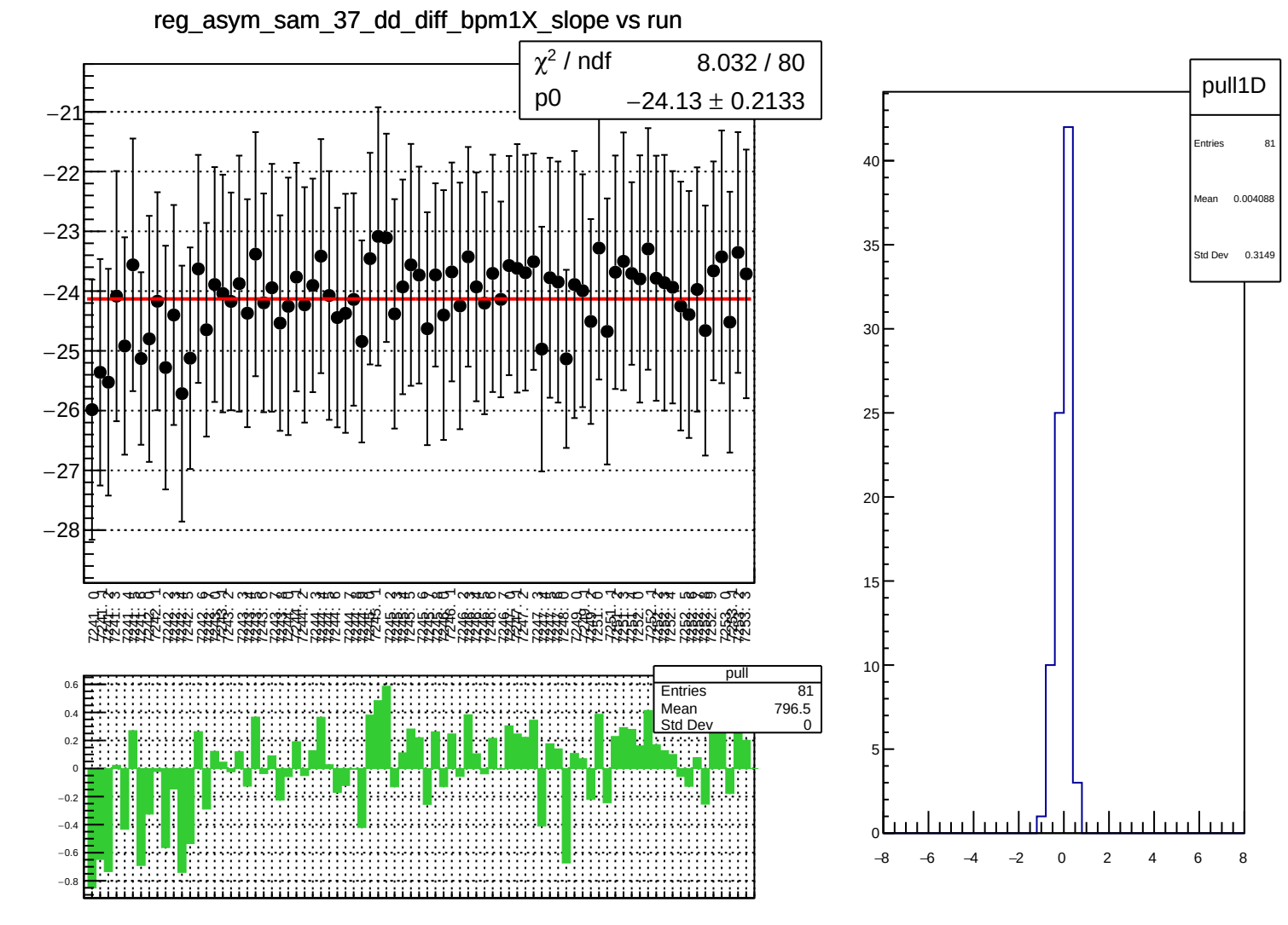

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 16.02 / 80
p0 −51.86 ± 0.4871
pull
Entries 81
Mean 28.29
Std Dev 13.78

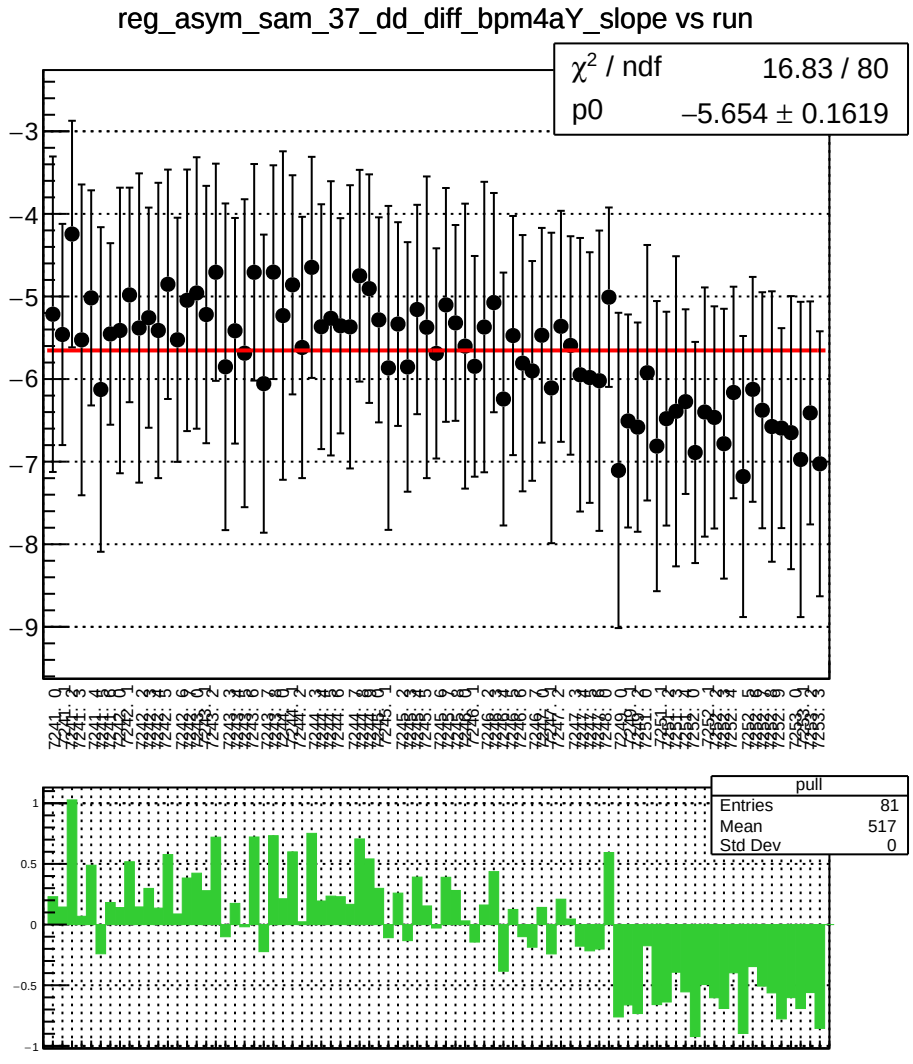

pull1D
Entries 81
Mean −0.02343
Std Dev 0.4441

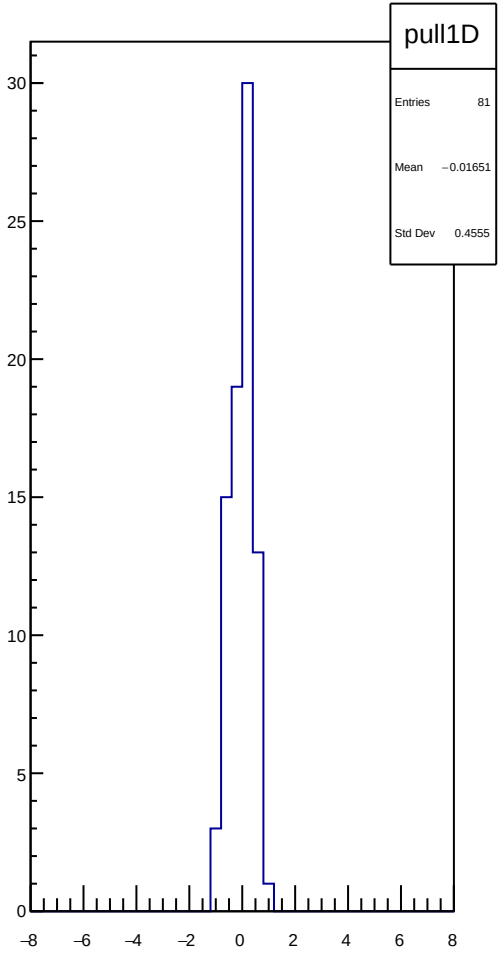

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.799 / 80
p0 5.02 ± 0.3828
pull
Entries 81
Mean 1801
Std Dev 0

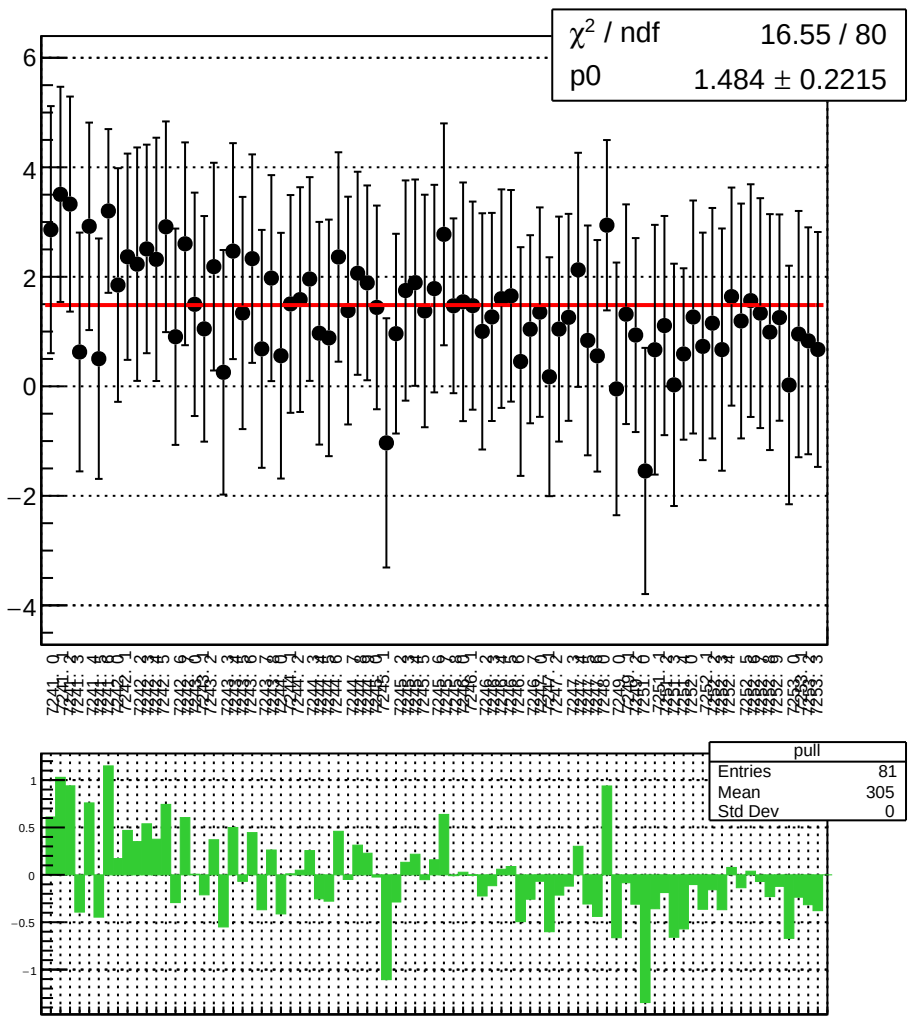

pull1D
Entries 81
Mean 0.003178
Std Dev 0.2897

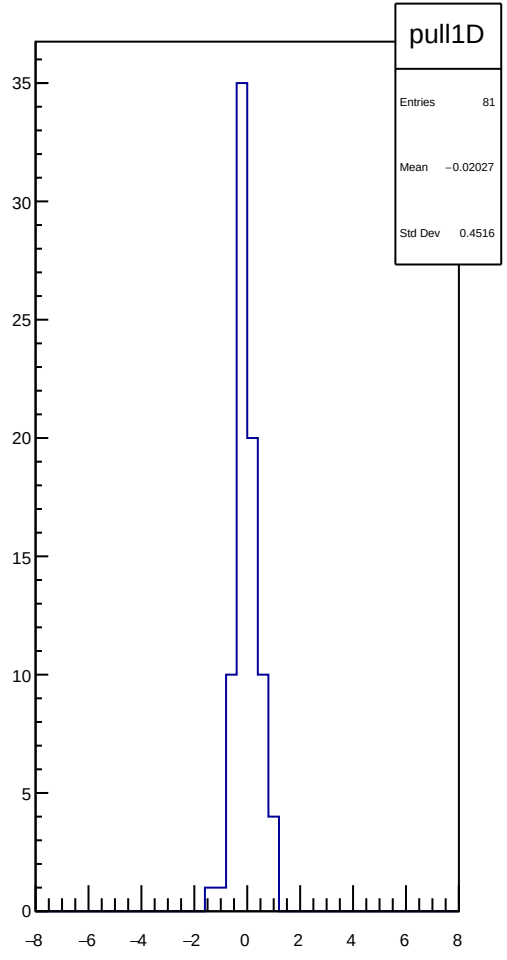

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 4.932 / 80
p0 0.3102 ± 0.01722
pull
Entries 81
Mean −183.3
Std Dev 0
pull1D
Entries 81
Mean −0.01237
Std Dev 0.2465

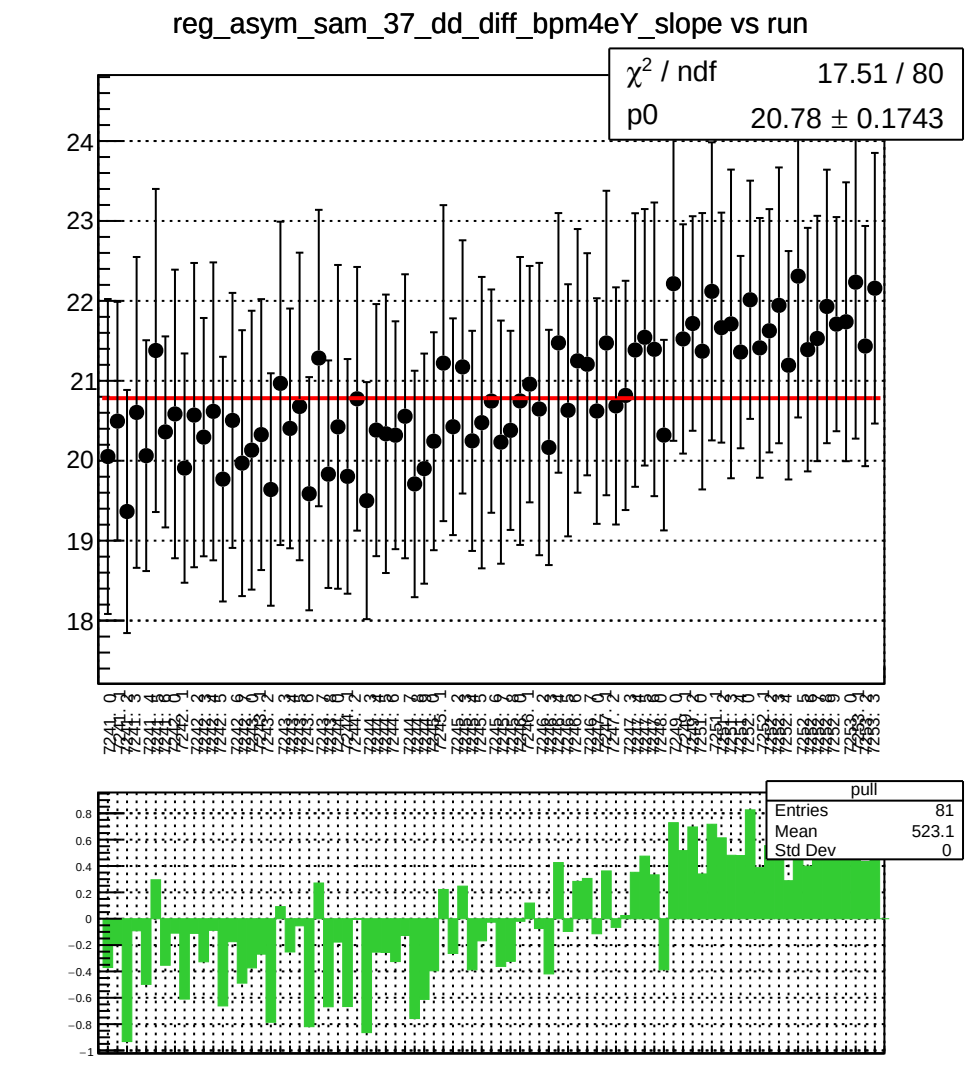

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 8.032 / 80
p0 −24.13 ± 0.2133
pull
Entries 81
Mean 796.5
Std Dev 0
pull1D
Entries 81
Mean 0.004088
Std Dev 0.3149

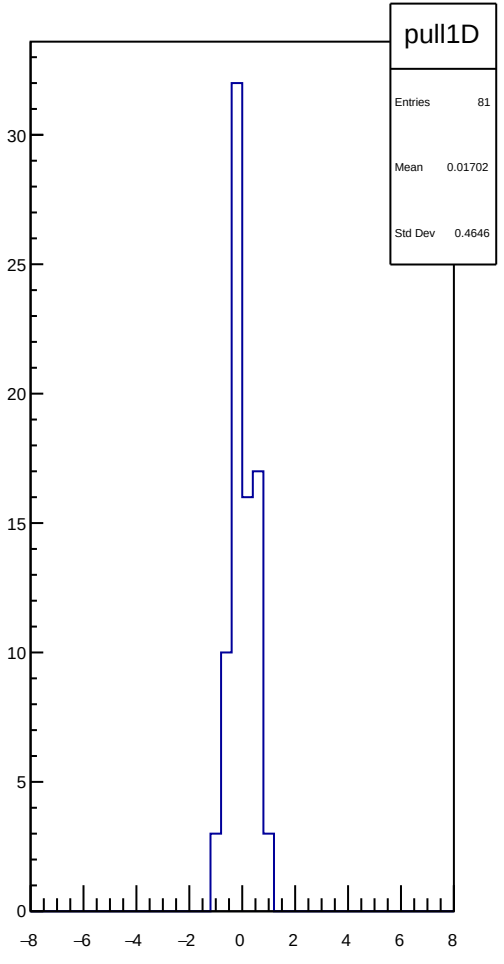

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.83 / 80
p0 −5.654 ± 0.1619
pull
Entries 81
Mean 517
Std Dev 0

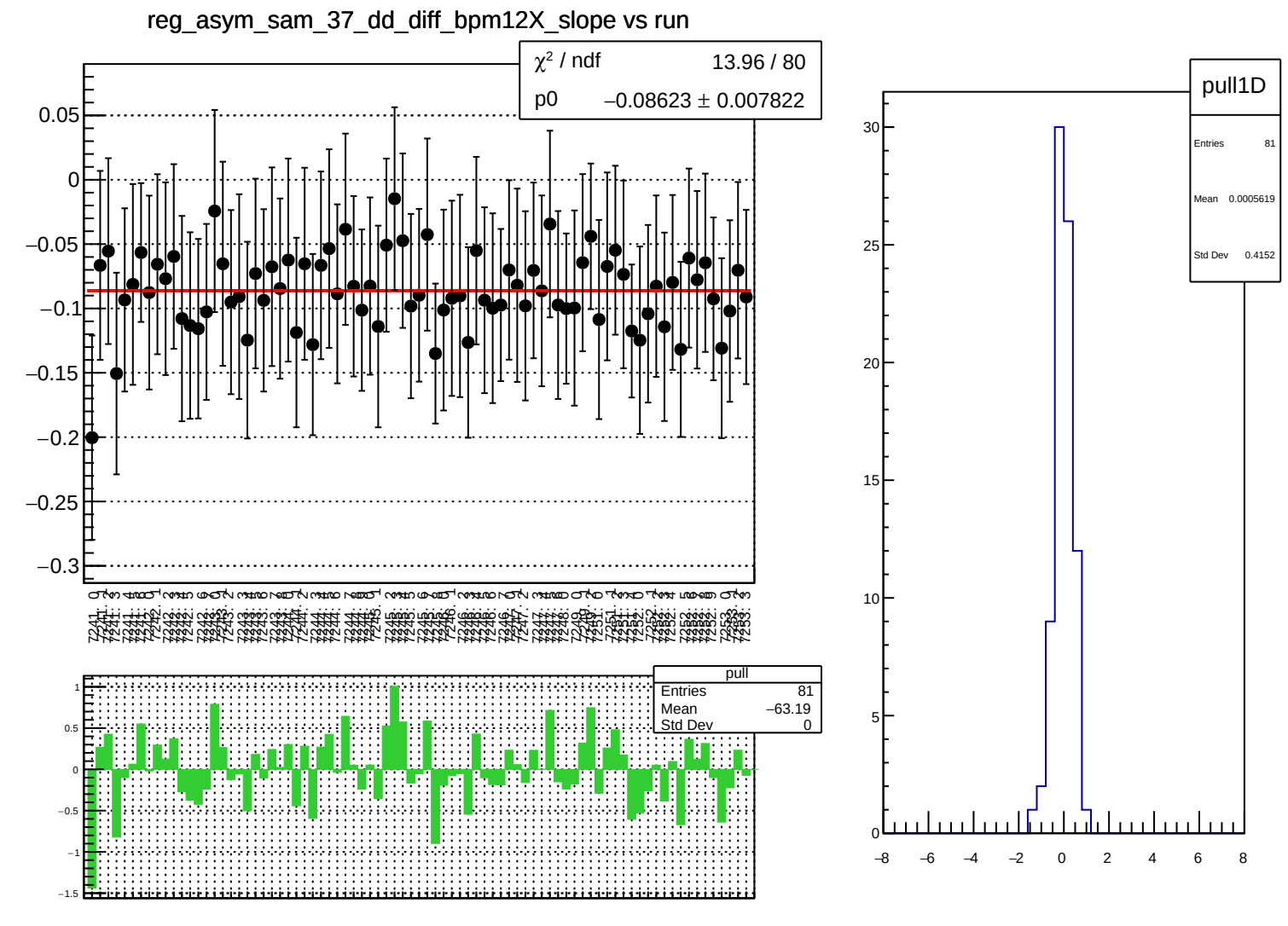

pull1D
Entries 81
Mean −0.01651
Std Dev 0.4555

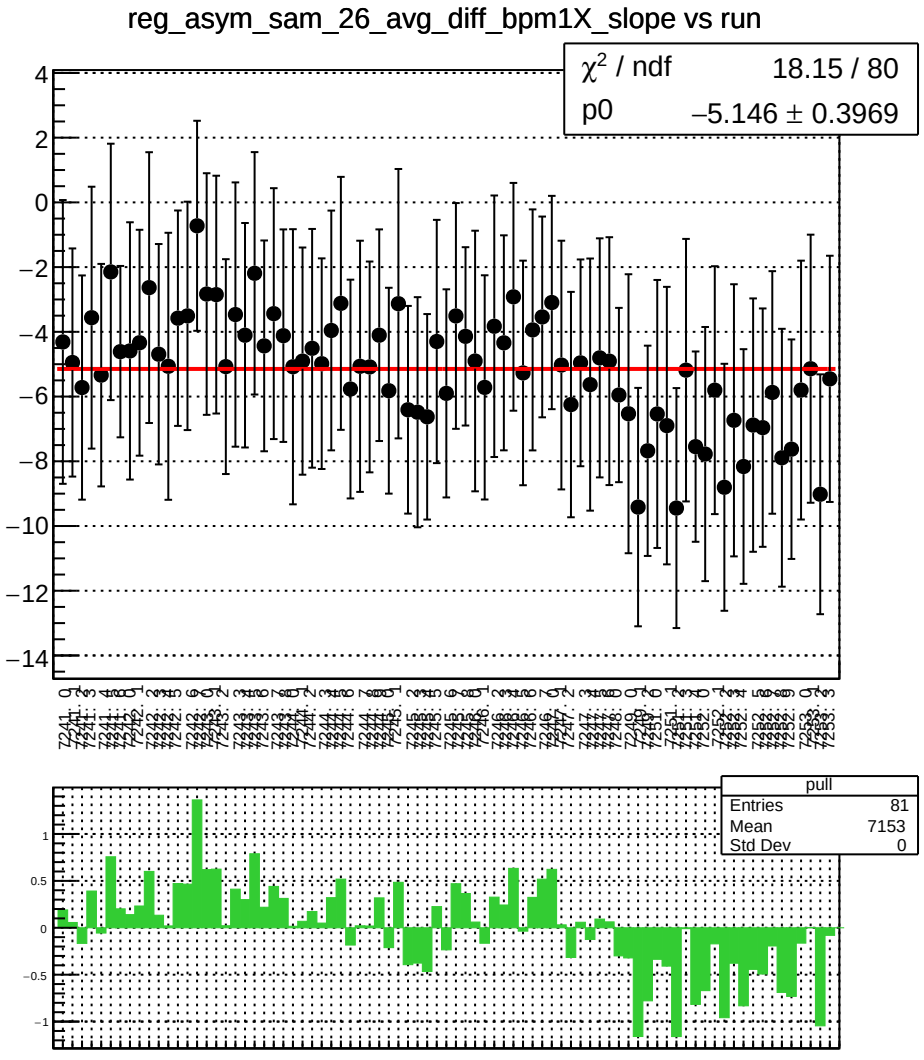

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 16.55 / 80
p0 1.484 ± 0.2215
pull
Entries 81
Mean 305
Std Dev 0

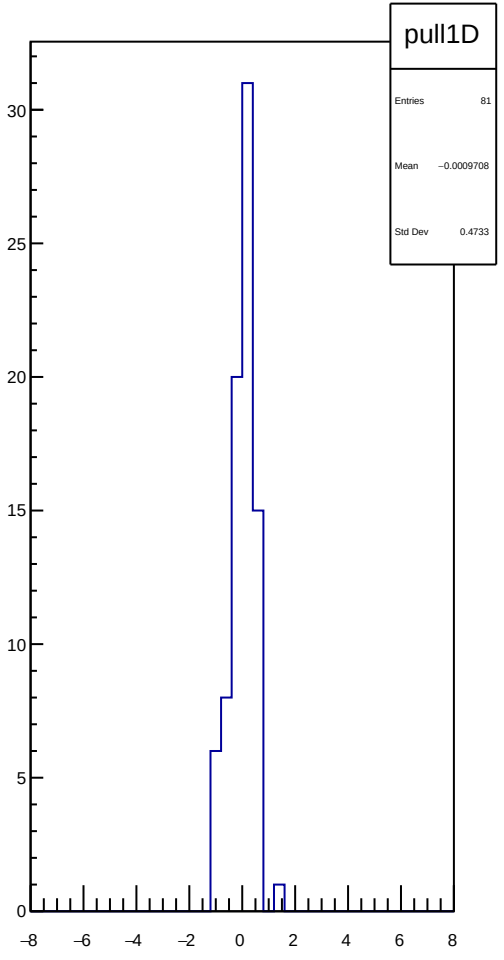

pull1D
Entries 81
Mean −0.02027
Std Dev 0.4516

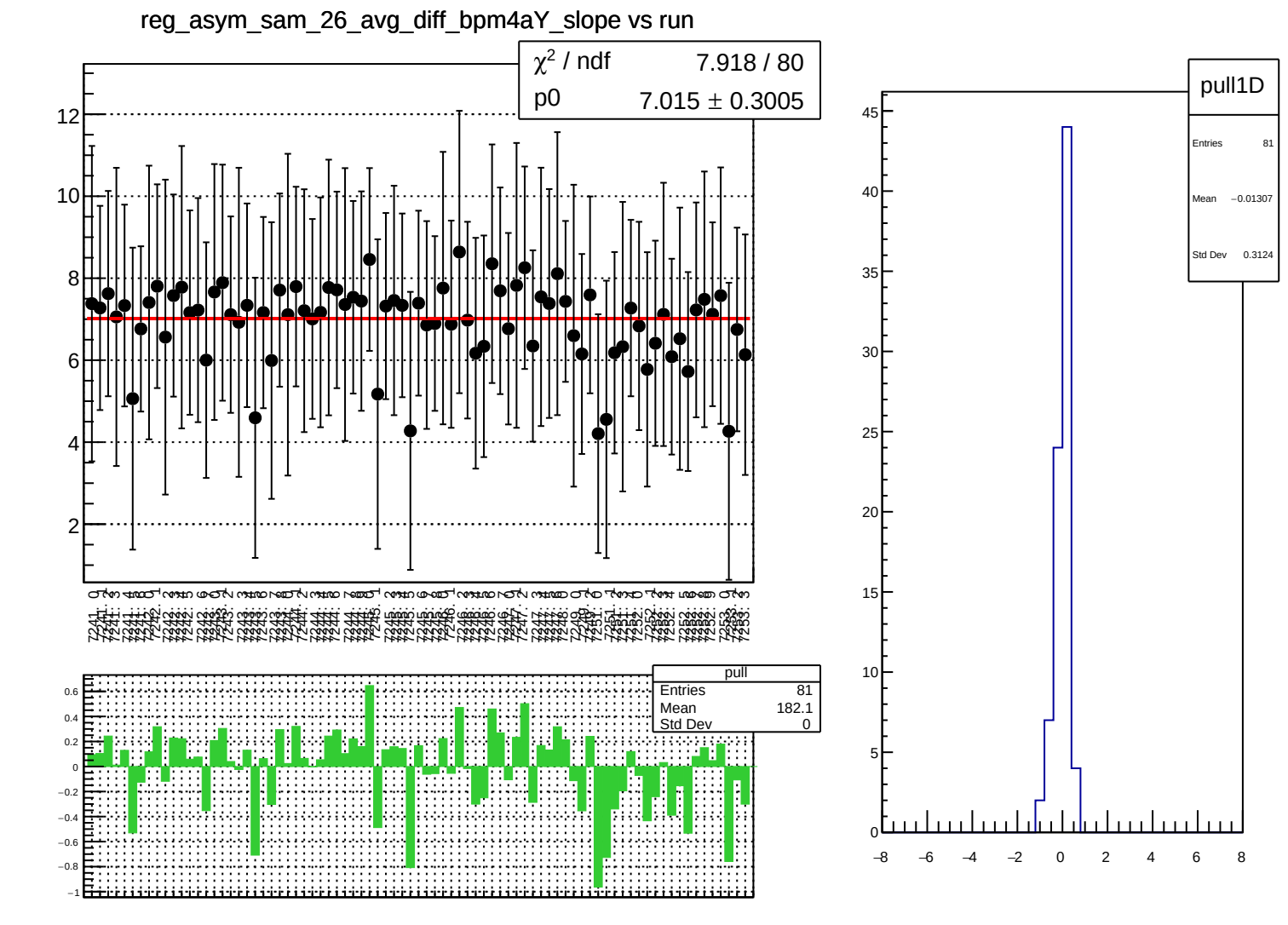

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.51 / 80
p0 20.78 ± 0.1743
pull
Entries 81
Mean 523.1
Std Dev 0

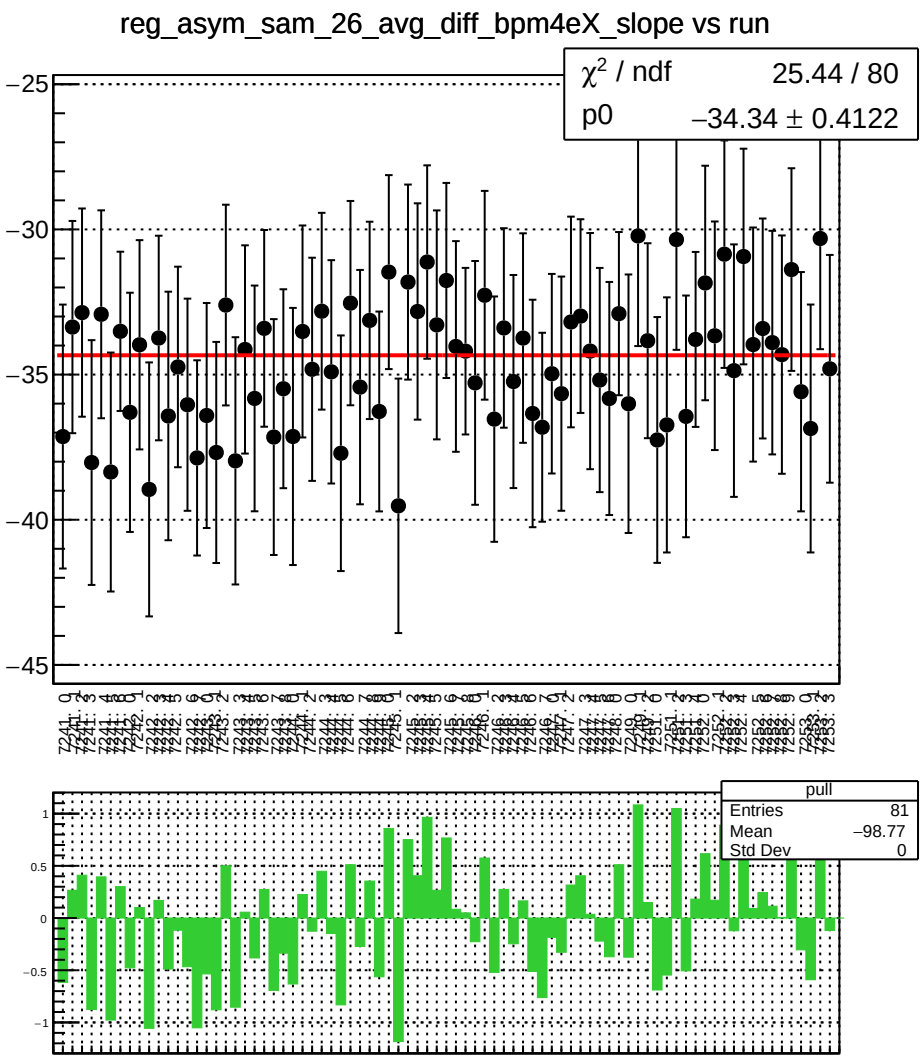

pull1D
Entries 81
Mean 0.01702
Std Dev 0.4646

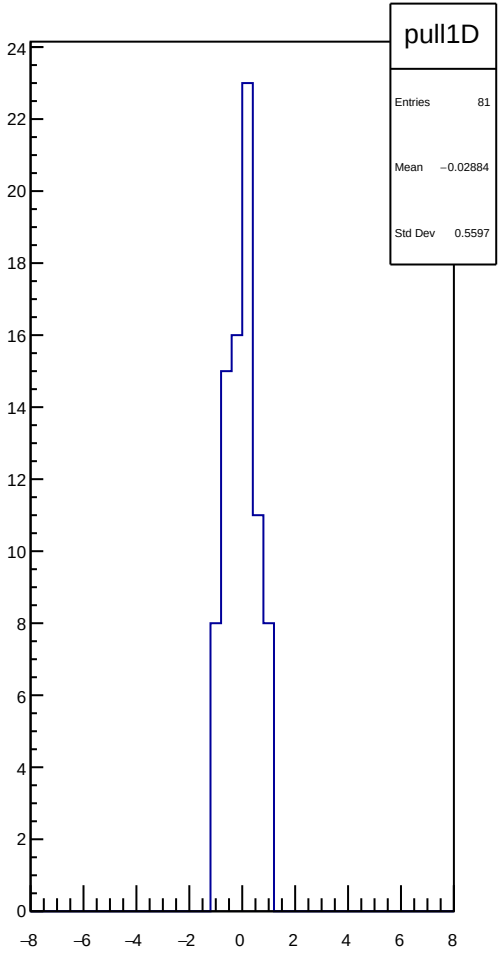

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 13.96 / 80
p0 −0.08623 ± 0.007822
pull
Entries 81
Mean −63.19
Std Dev 0
pull1D
Entries 81
Mean 0.0005619
Std Dev 0.4152

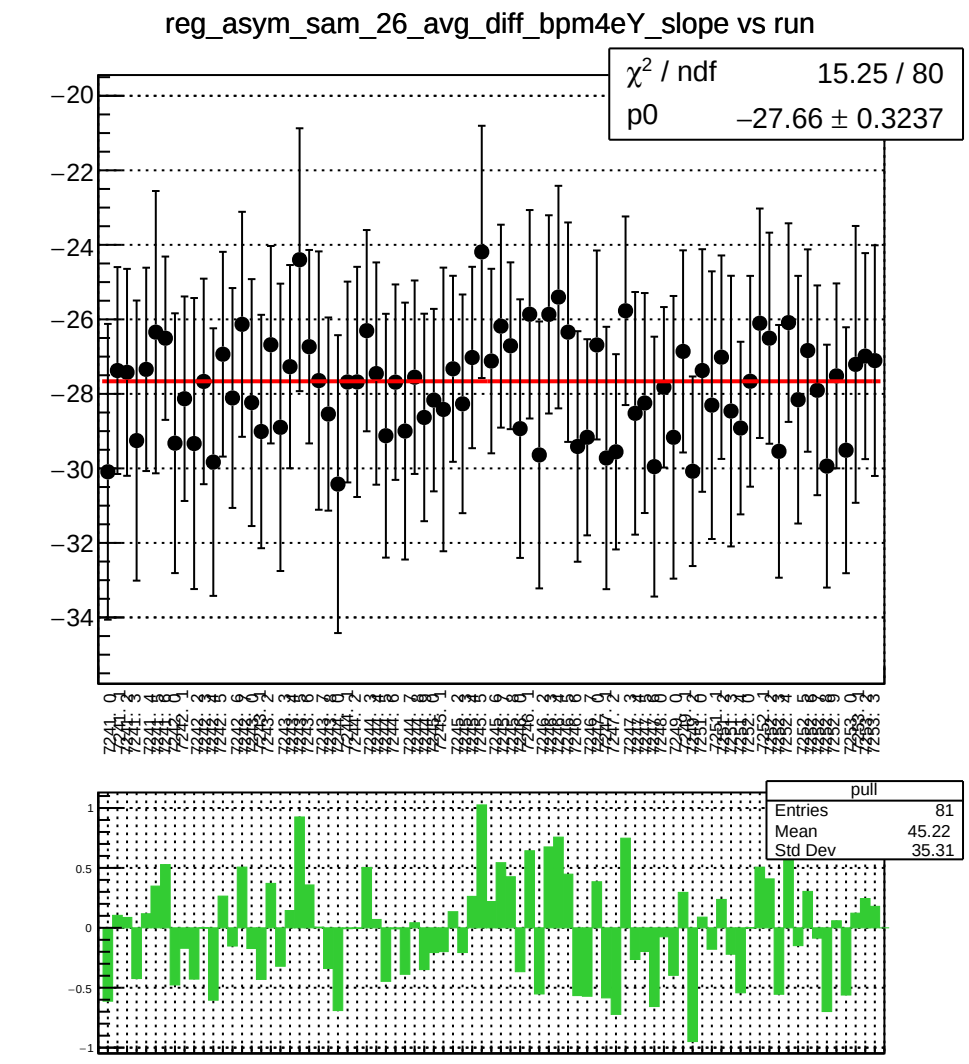

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 18.15 / 80
p0 −5.146 ± 0.3969
pull
Entries 81
Mean 7153
Std Dev 0

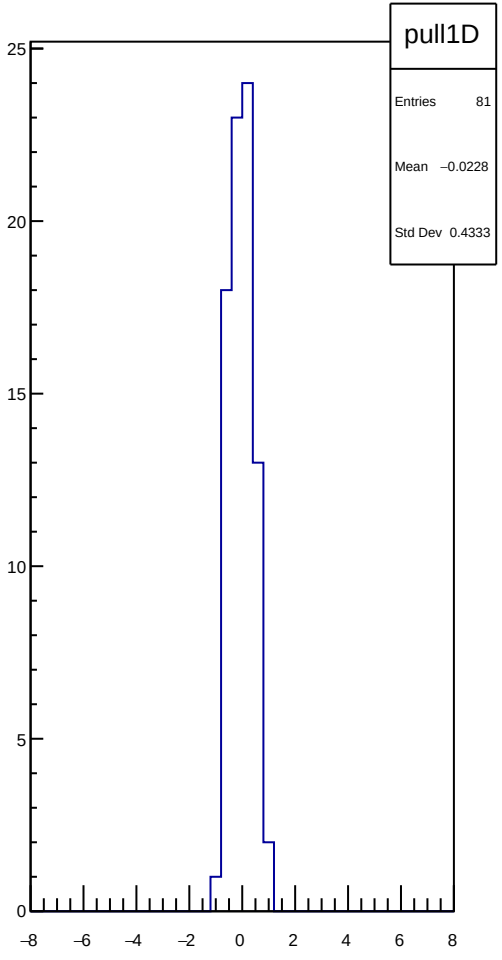

pull1D
Entries 81
Mean −0.0009708
Std Dev 0.4733

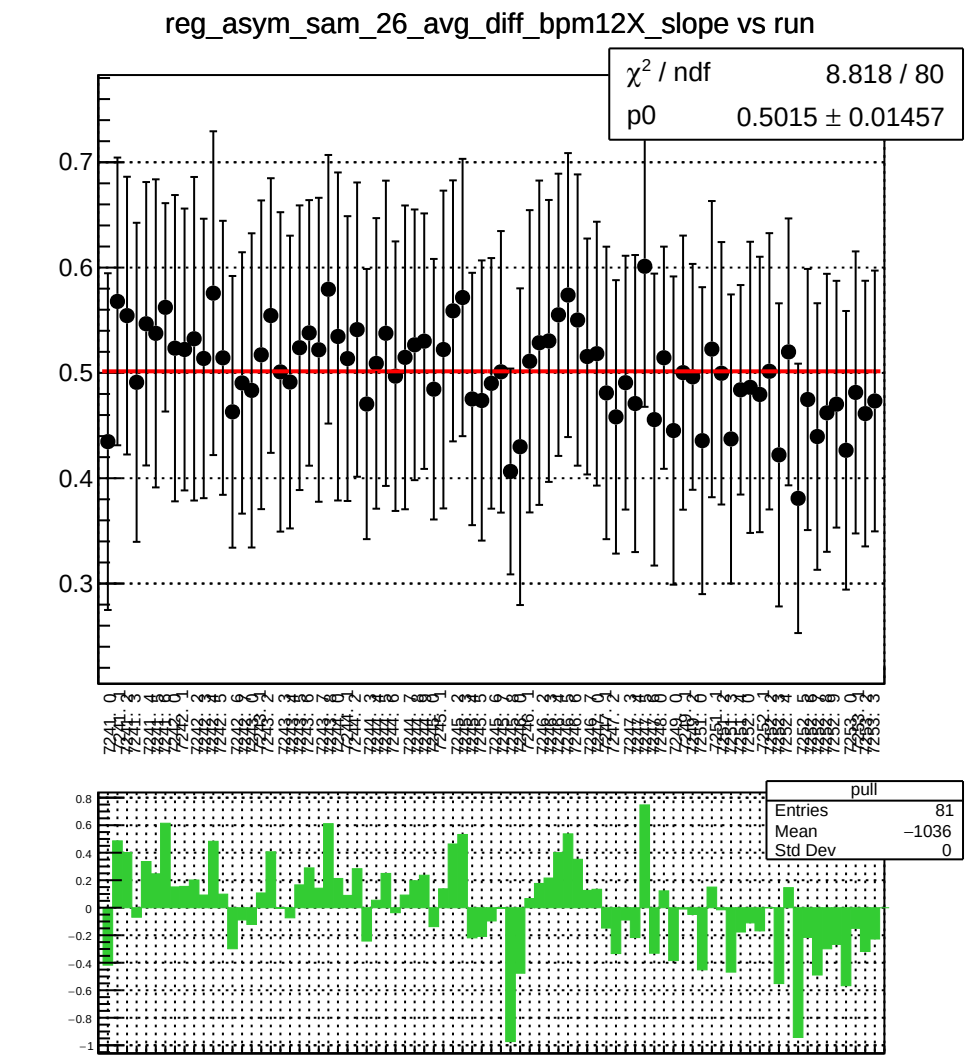

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.918 / 80
p0 7.015 ± 0.3005
pull
Entries 81
Mean 182.1
Std Dev 0
pull1D
Entries 81
Mean −0.01307
Std Dev 0.3124

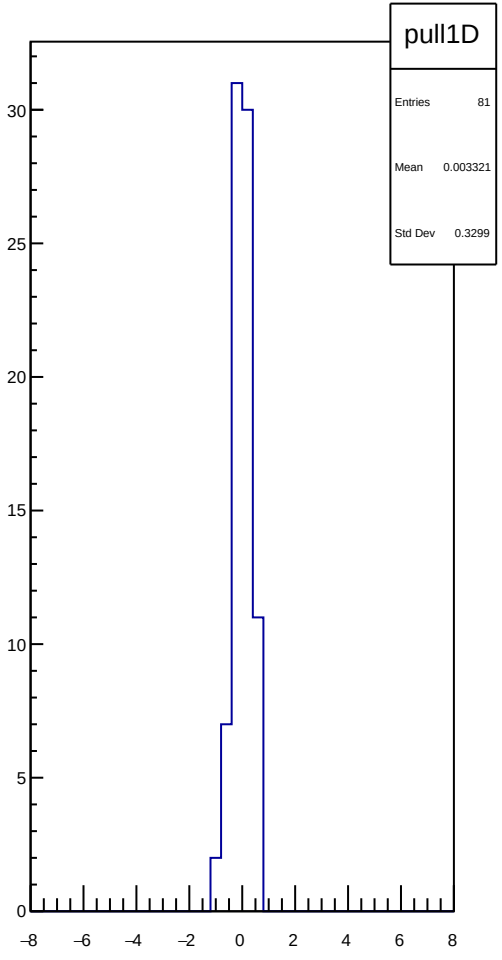

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 25.44 / 80
p0 −34.34 ± 0.4122
pull
Entries 81
Mean −98.77
Std Dev 0

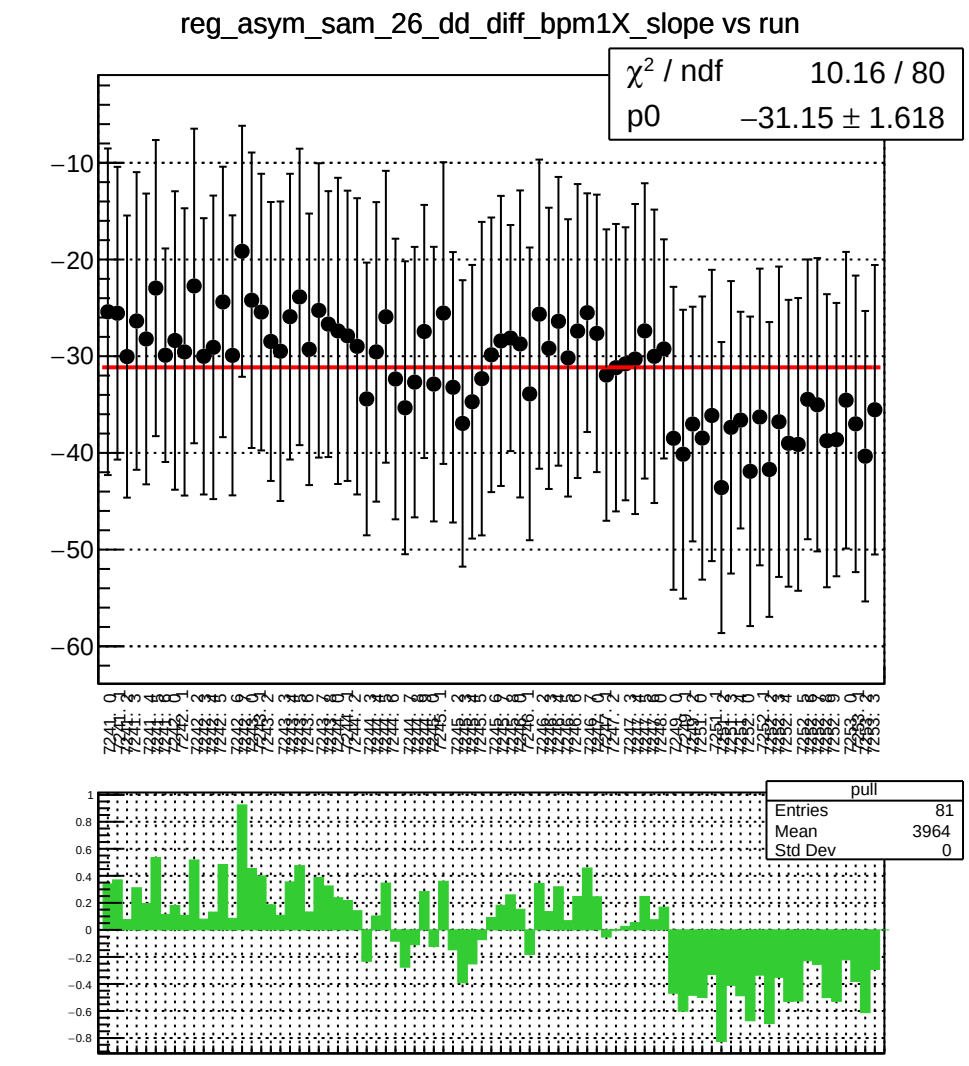

pull1D
Entries 81
Mean −0.02884
Std Dev 0.5597

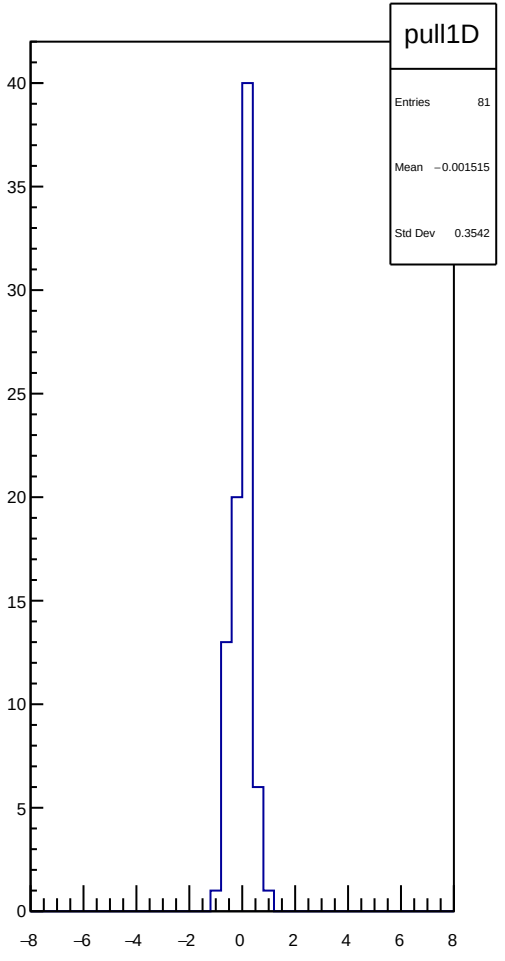

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 15.25 / 80
p0 −27.66 ± 0.3237
pull
Entries 81
Mean 45.22
Std Dev 35.31

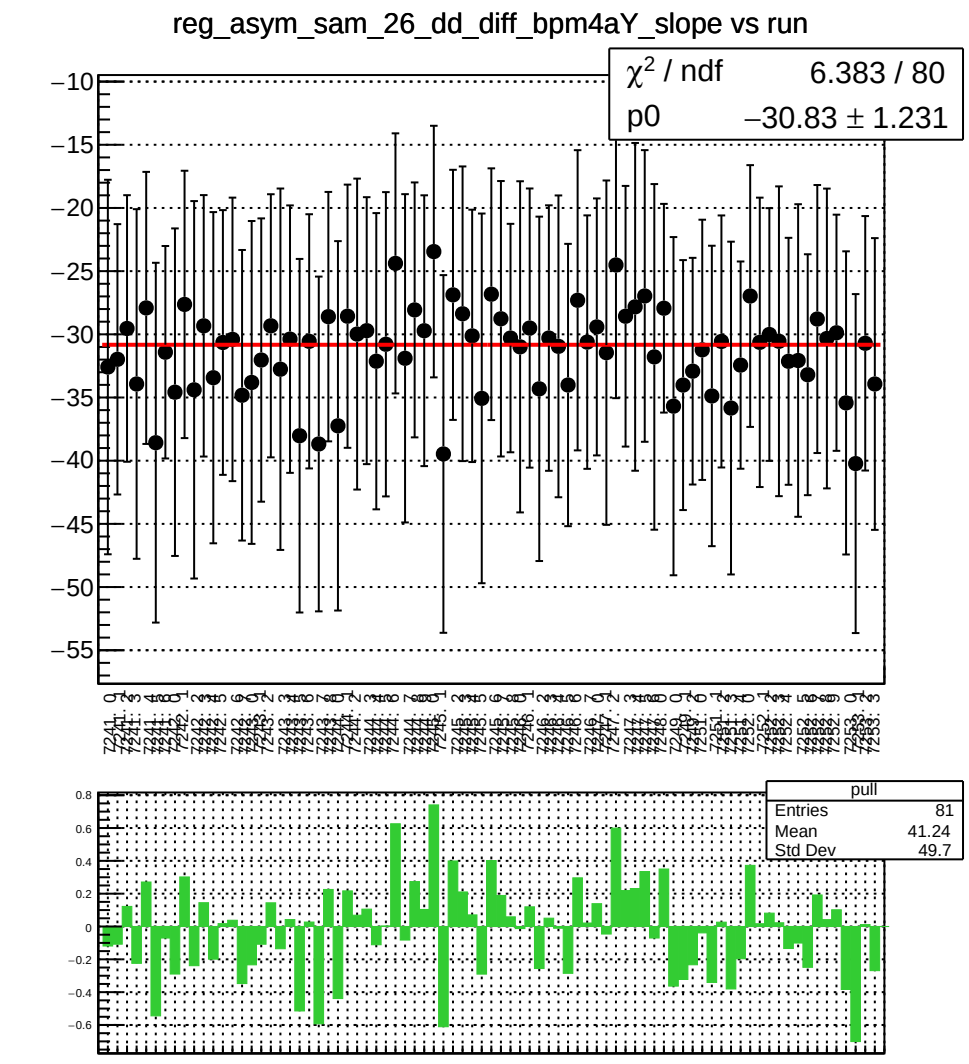

pull1D
Entries 81
Mean −0.0228
Std Dev 0.4333

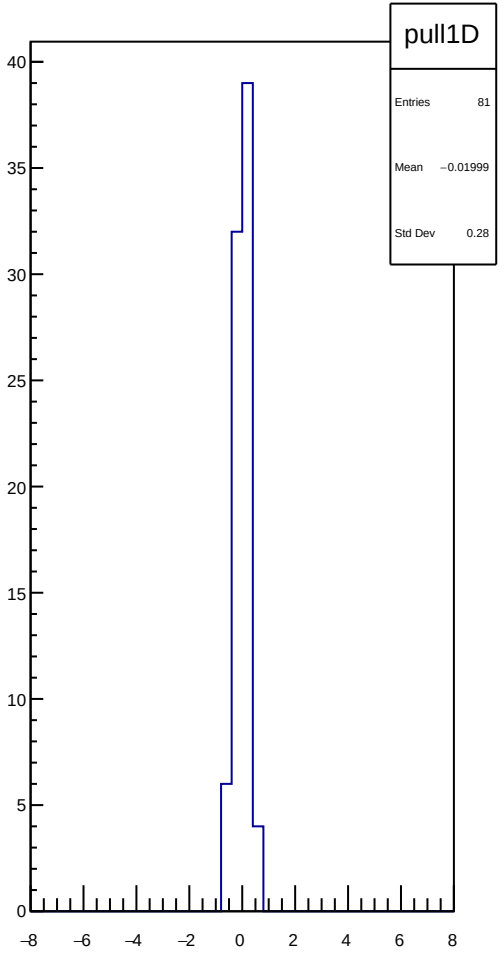

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 8.818 / 80
p0 0.5015 ± 0.01457
pull
Entries 81
Mean −1036
Std Dev 0

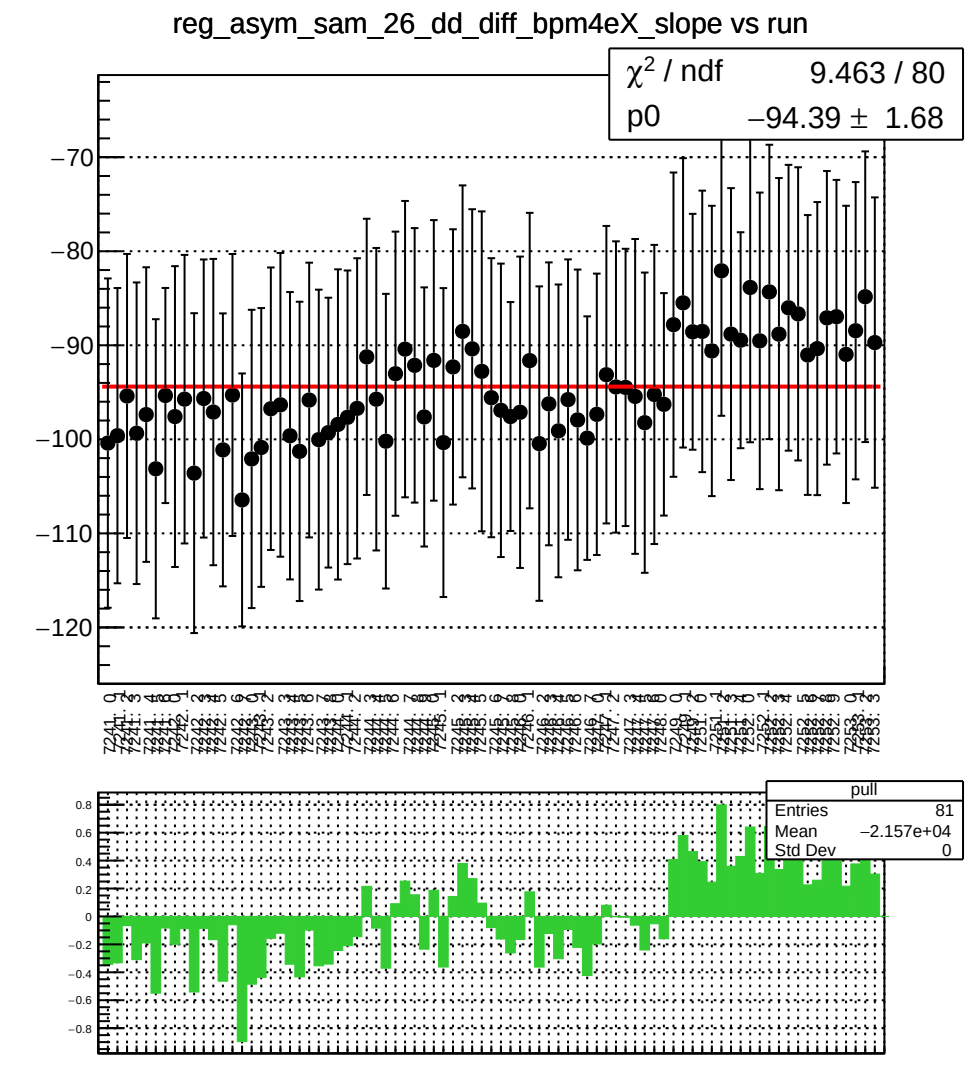

pull1D
Entries 81
Mean 0.003321
Std Dev 0.3299

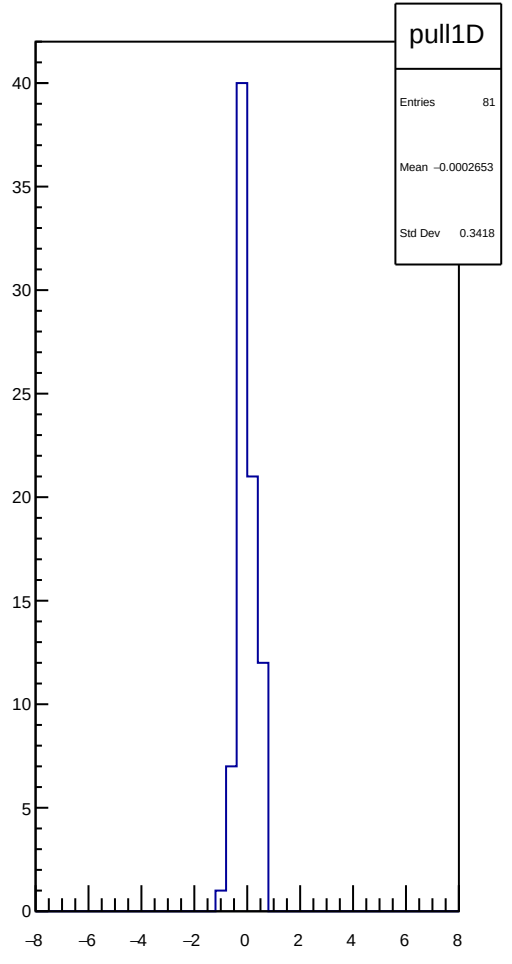

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 10.16 / 80
p0 −31.15 ± 1.618
pull
Entries 81
Mean 3964
Std Dev 0

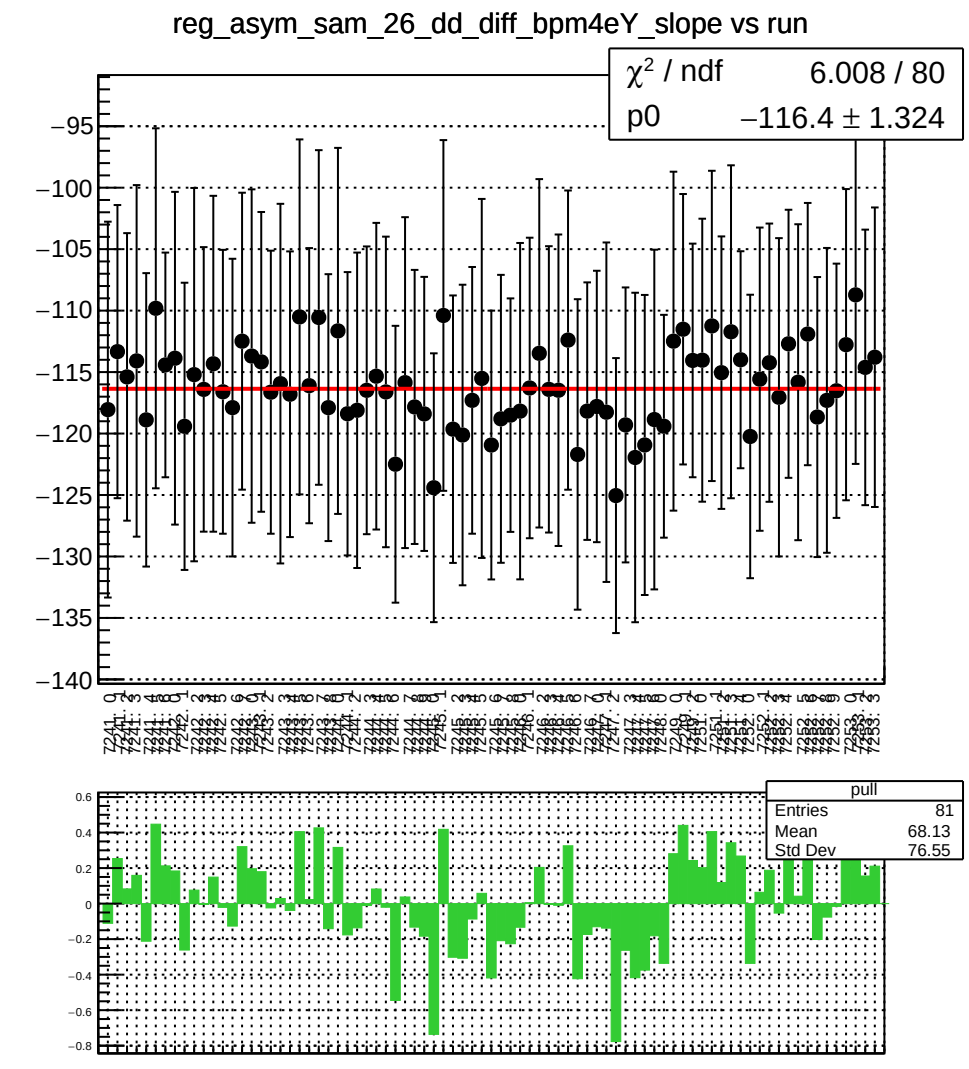

pull1D
Entries 81
Mean −0.001515
Std Dev 0.3542

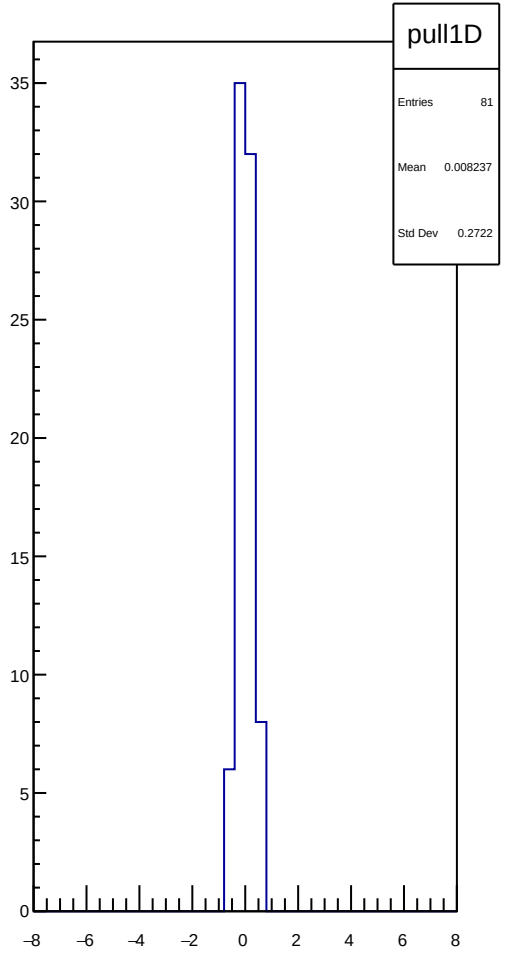

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.383 / 80
p0 −30.83 ± 1.231
pull
Entries 81
Mean 41.24
Std Dev 49.7

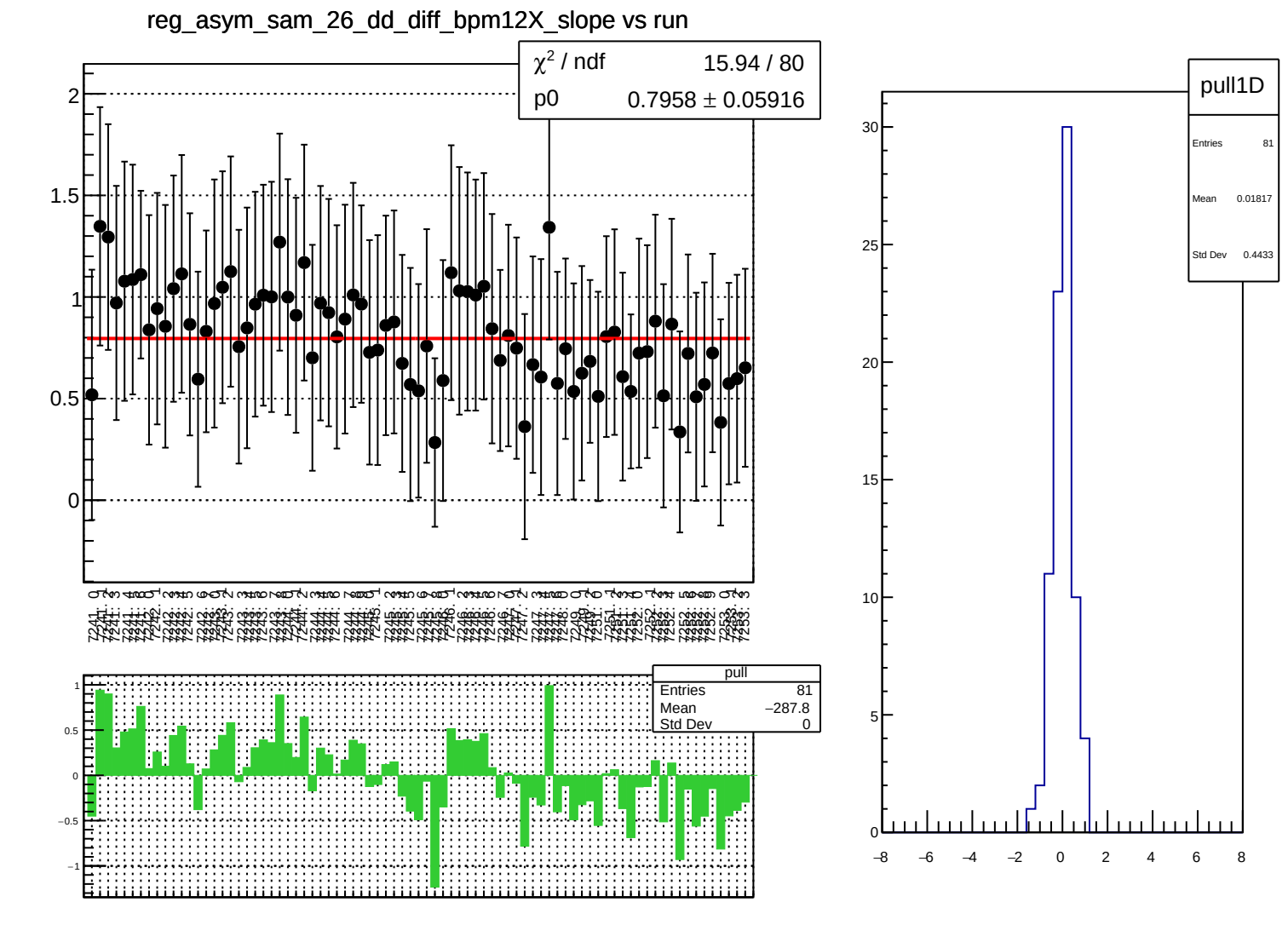

pull1D
Entries 81
Mean −0.01999
Std Dev 0.28

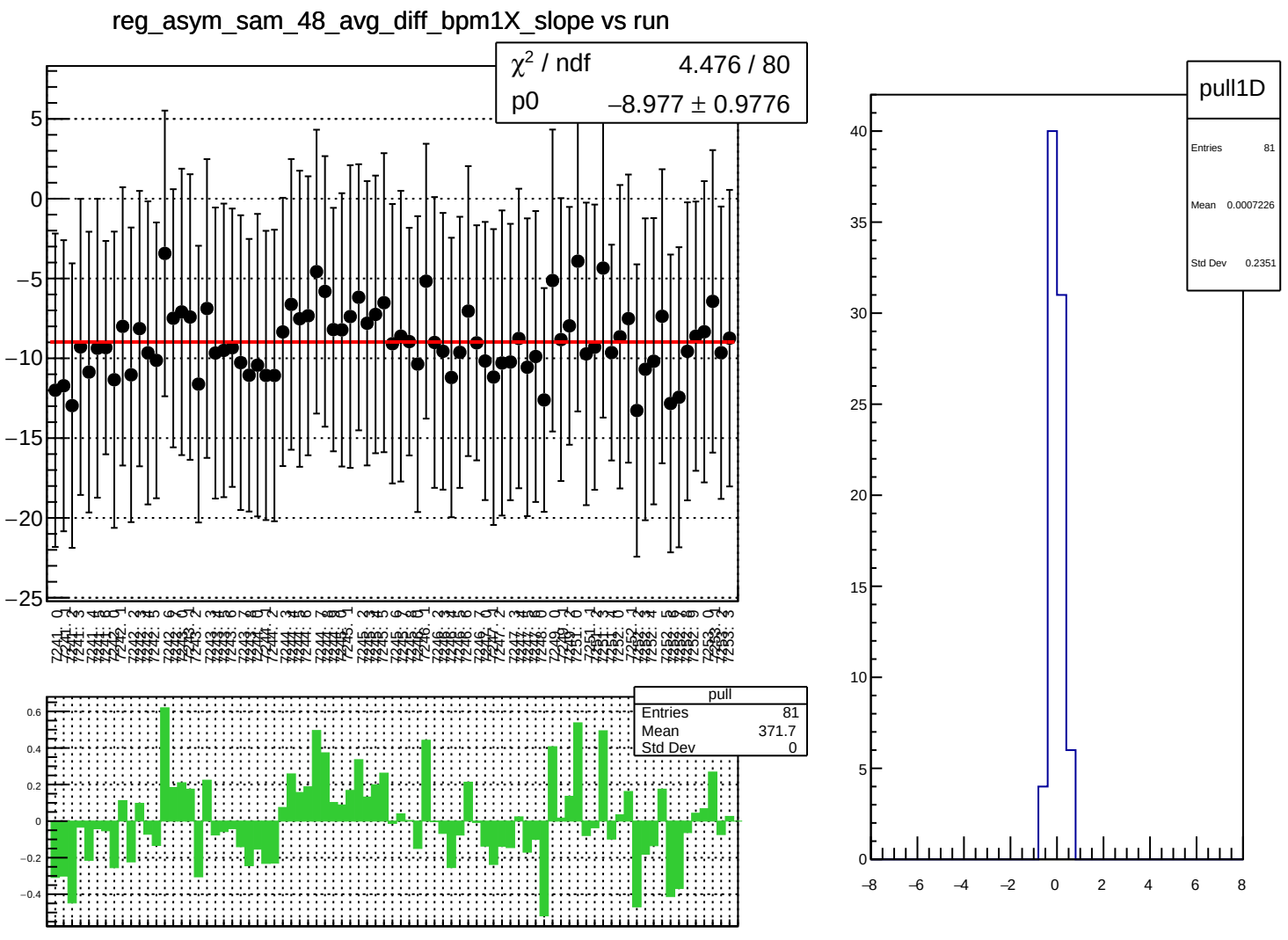

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.463 / 80
p0 −94.39 ± 1.68
−70
−80
−90
−100
−110
−120
pull
Entries 81
Mean −2.157e+04
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

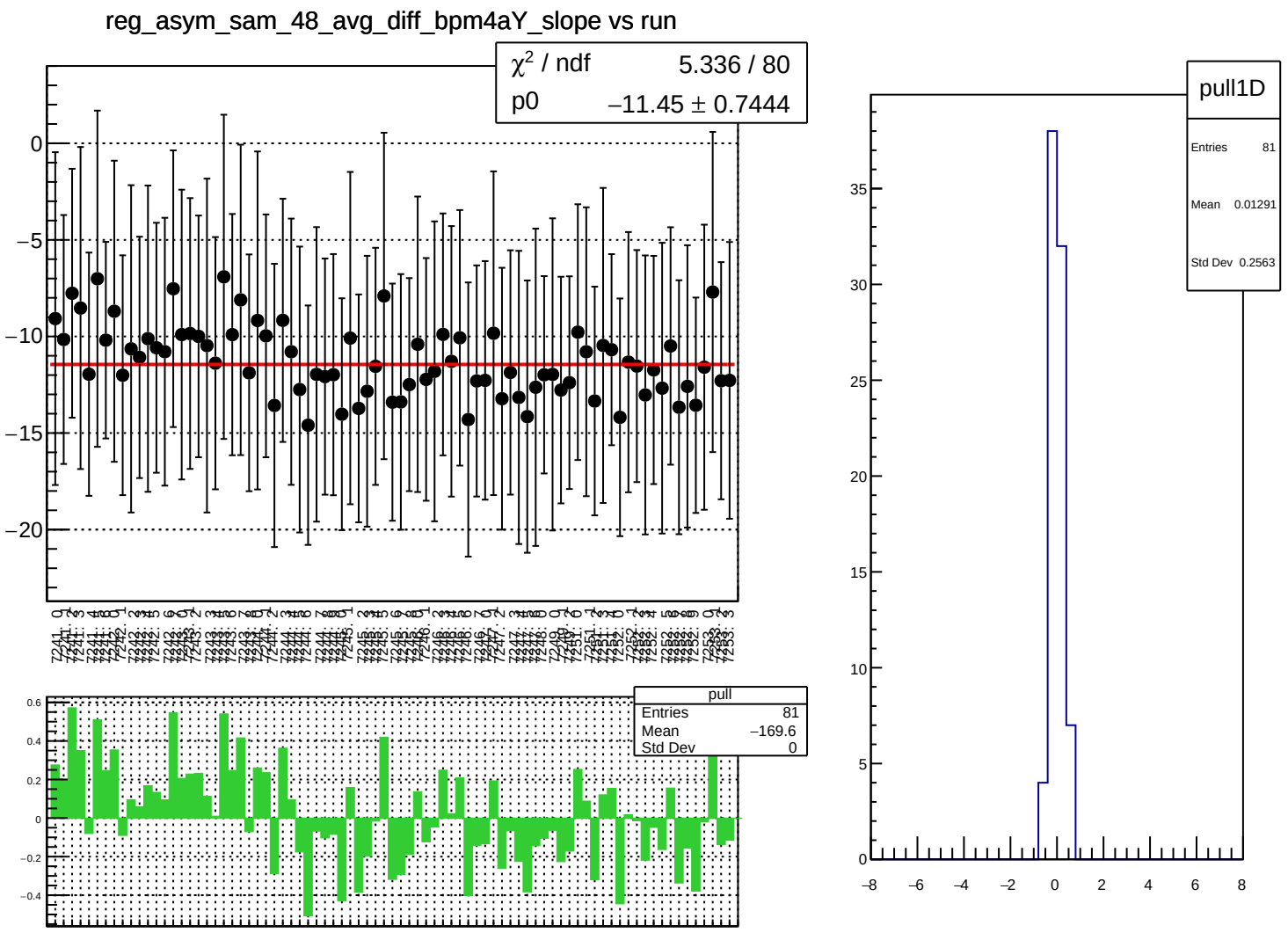

pull1D
Entries 81
Mean −0.0002653
Std Dev 0.3418
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

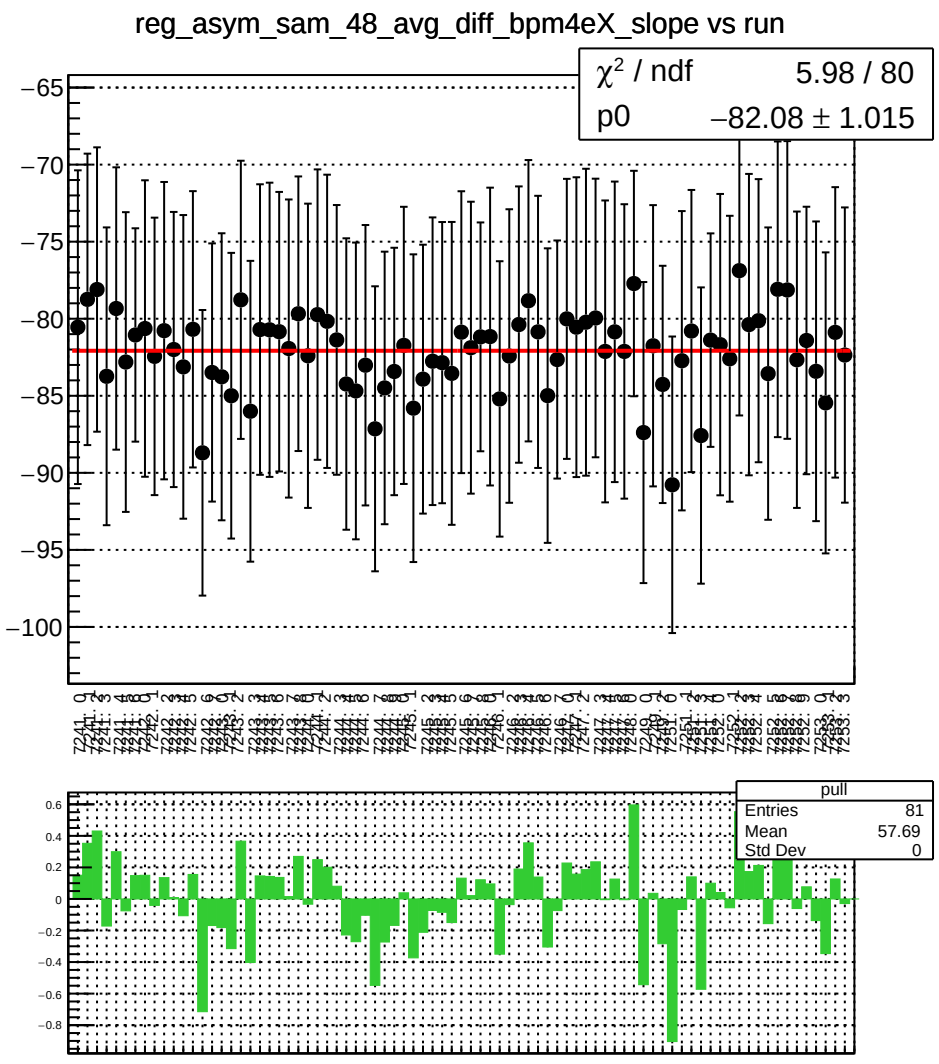

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.008 / 80
p0 −116.4 ± 1.324
pull
Entries 81
Mean 68.13
Std Dev 76.55

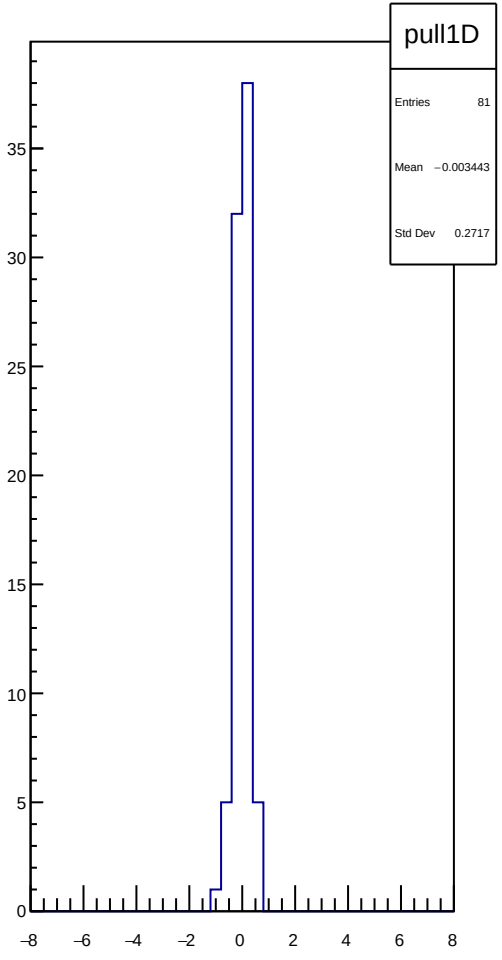

pull1D
Entries 81
Mean 0.008237
Std Dev 0.2722

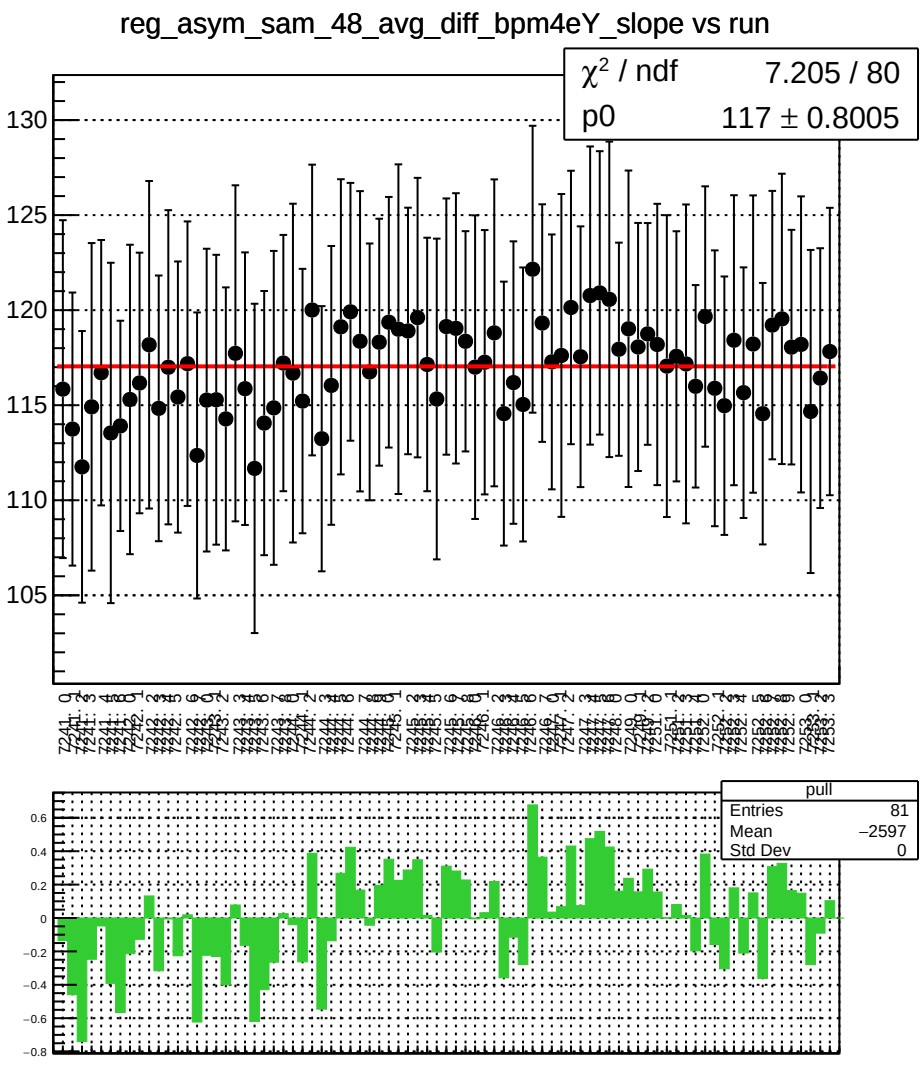

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 15.94 / 80
p0 0.7958 ± 0.05916
pull
Entries 81
Mean −287.8
Std Dev 0
pull1D
Entries 81
Mean 0.01817
Std Dev 0.4433

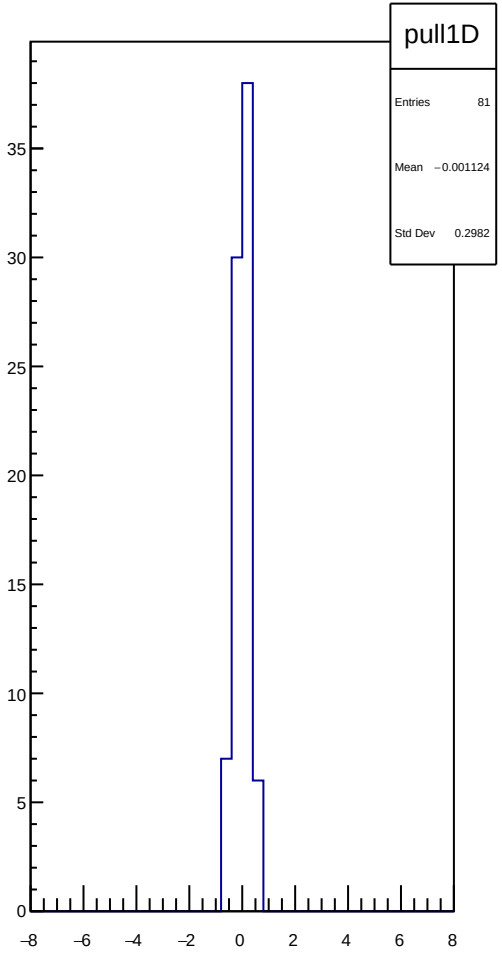

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 4.476 / 80
p0 −8.977 ± 0.9776
pull
Entries 81
Mean 371.7
Std Dev 0
pull1D
Entries 81
Mean 0.0007226
Std Dev 0.2351

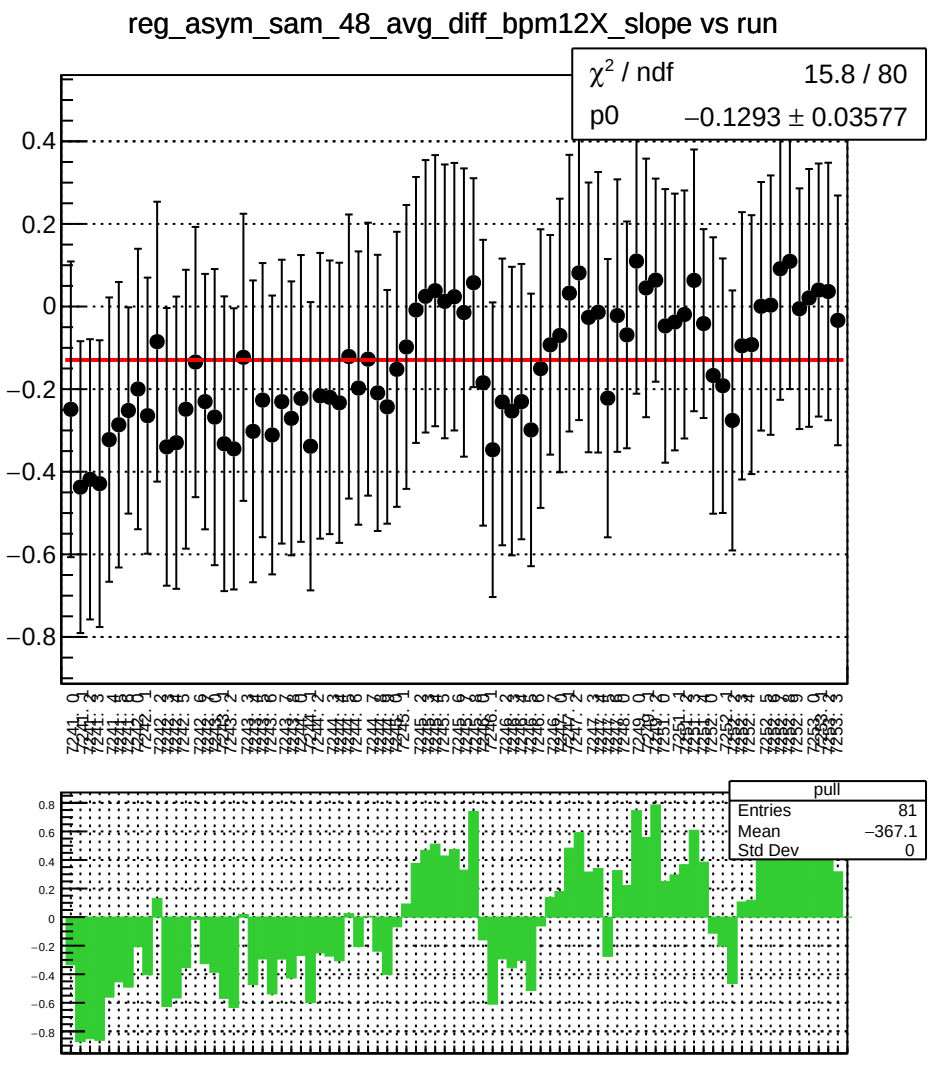

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.336 / 80
p0 −11.45 ± 0.7444
pull
Entries 81
Mean −169.6
Std Dev 0
pull1D
Entries 81
Mean 0.01291
Std Dev 0.2563

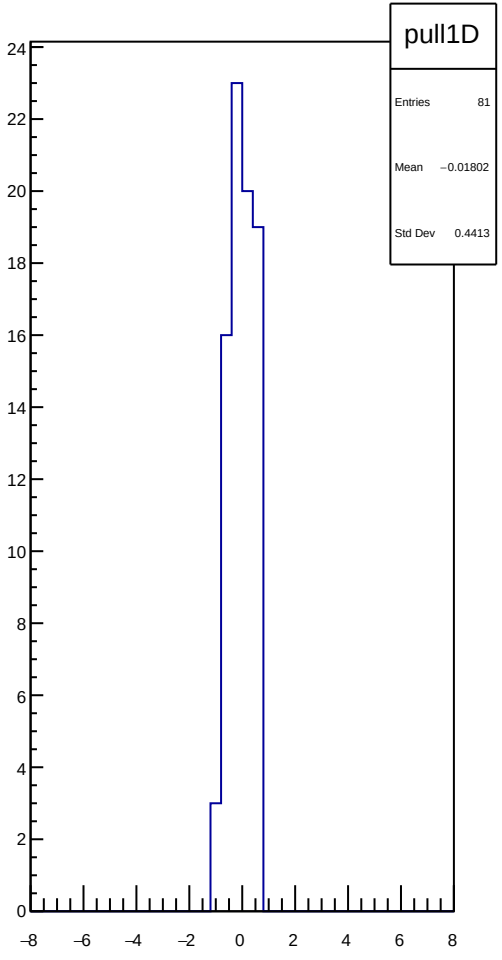

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.98 / 80
p0 −82.08 ± 1.015
pull
Entries 81
Mean 57.69
Std Dev 0

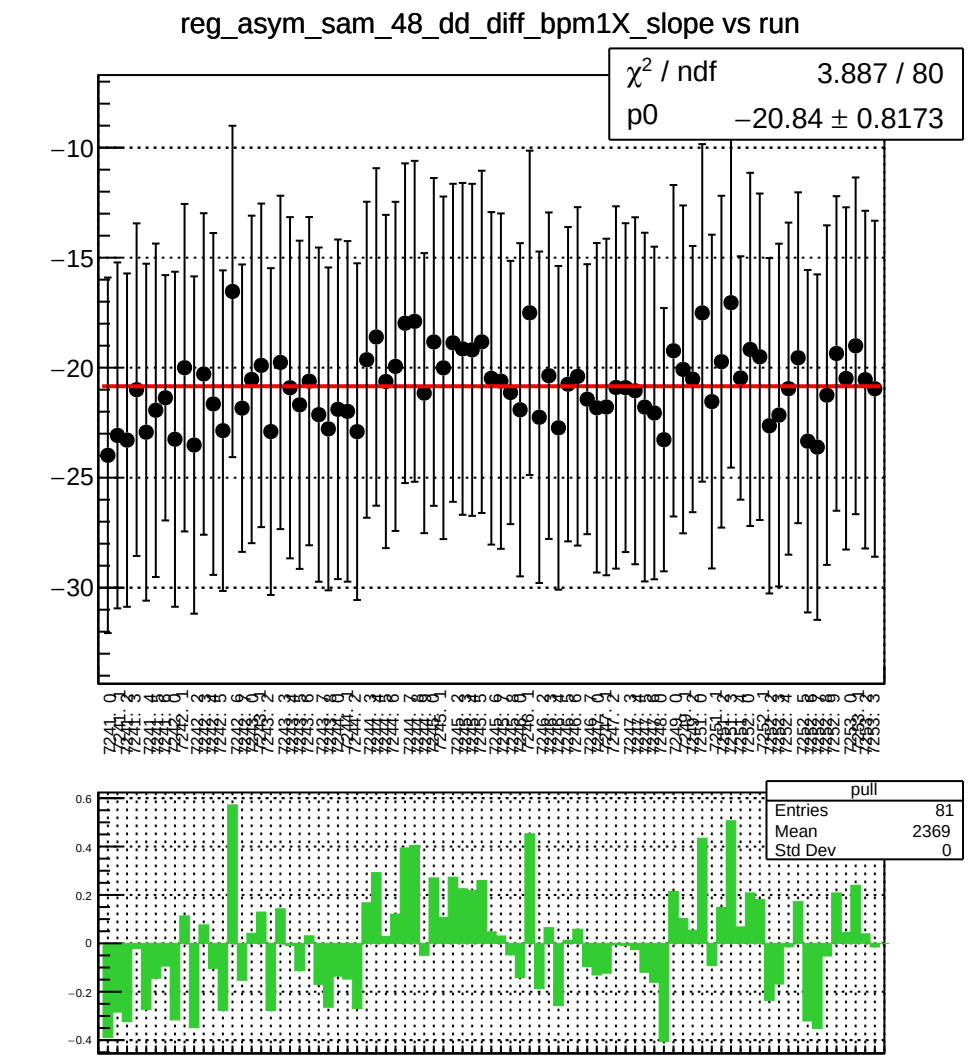

pull1D
Entries 81
Mean −0.003443
Std Dev 0.2717

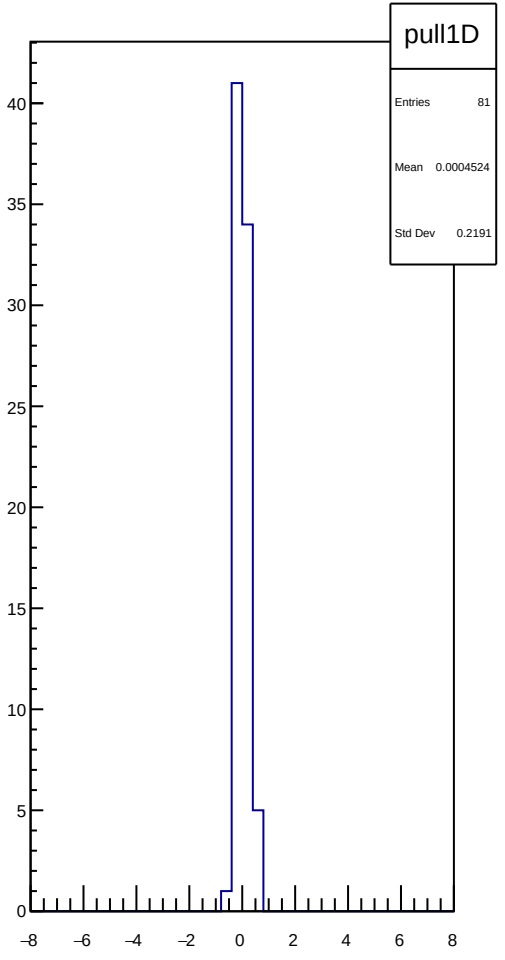

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.205 / 80
p0 117 ± 0.8005
pull
Entries 81
Mean −2597
Std Dev 0

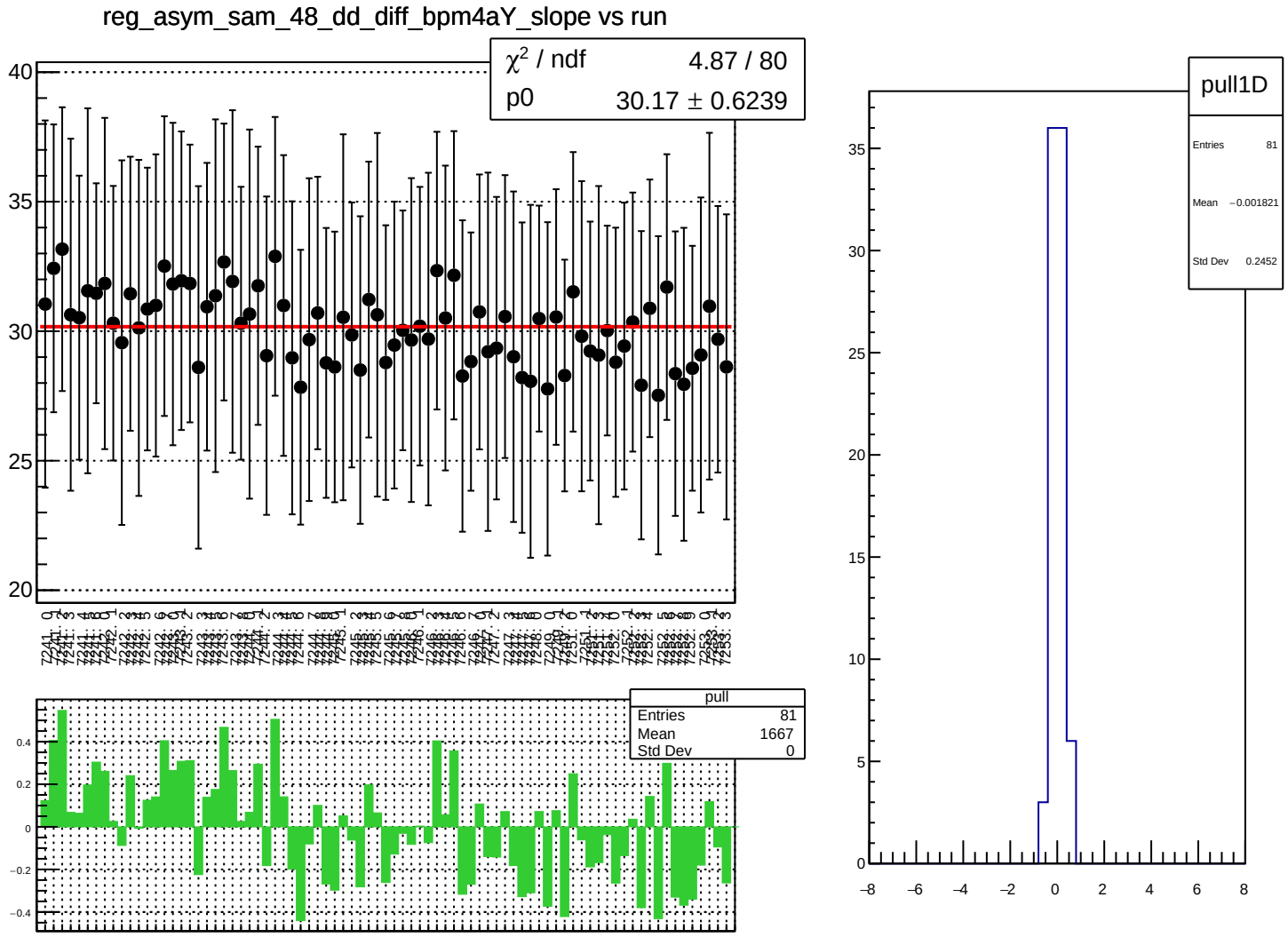

pull1D
Entries 81
Mean −0.001124
Std Dev 0.2982

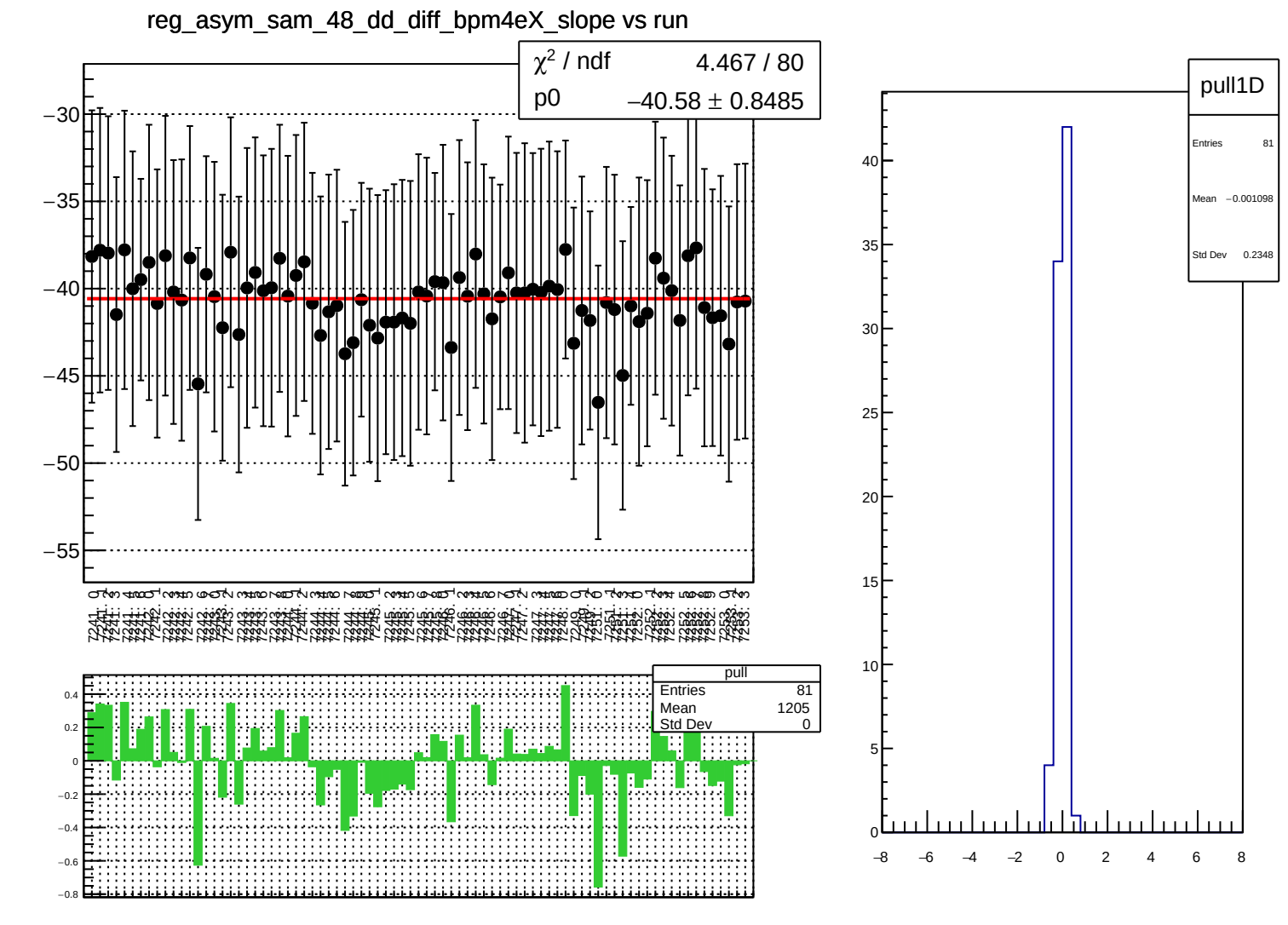

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 15.8 / 80
p0 −0.1293 ± 0.03577
pull
Entries 81
Mean −367.1
Std Dev 0

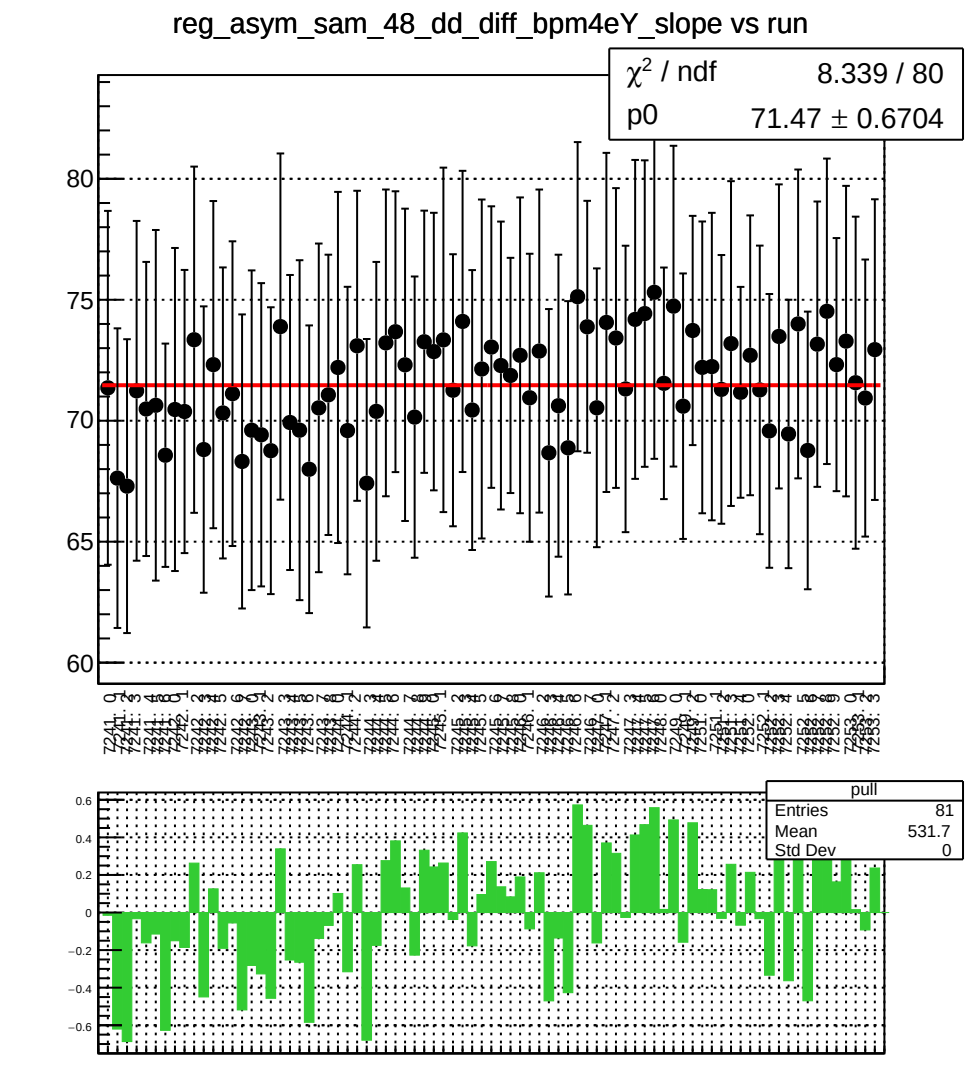

pull1D
Entries 81
Mean −0.01802
Std Dev 0.4413

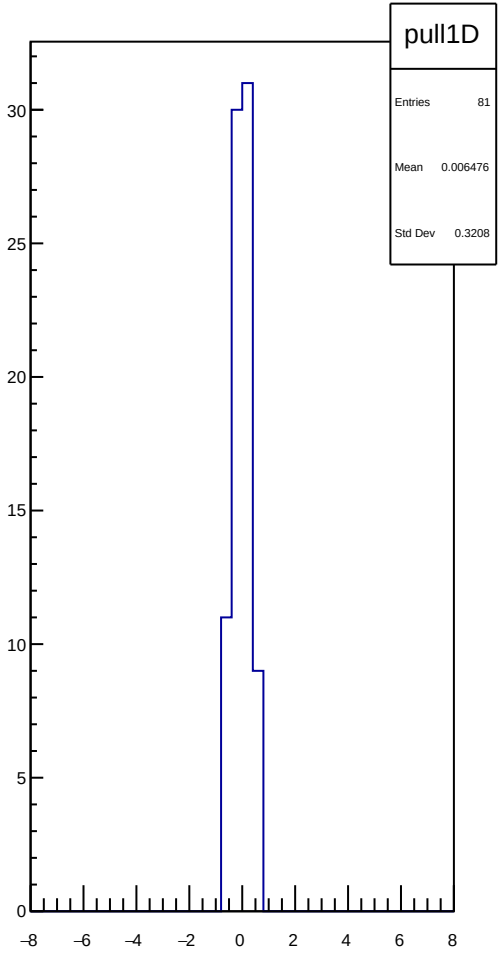

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 3.887 / 80
p0 −20.84 ± 0.8173
pull
Entries 81
Mean 2369
Std Dev 0

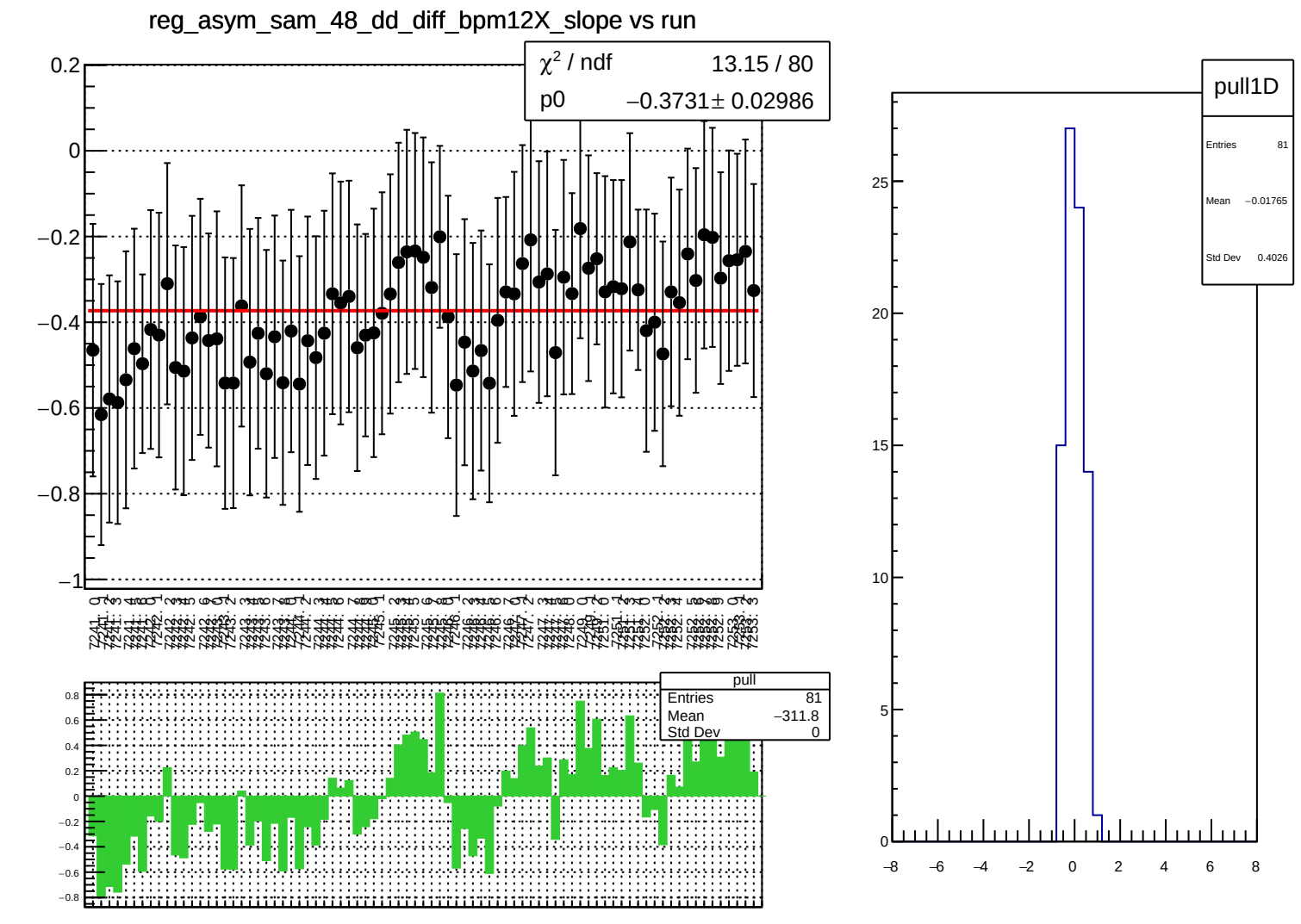

pull1D
Entries 81
Mean 0.0004524
Std Dev 0.2191

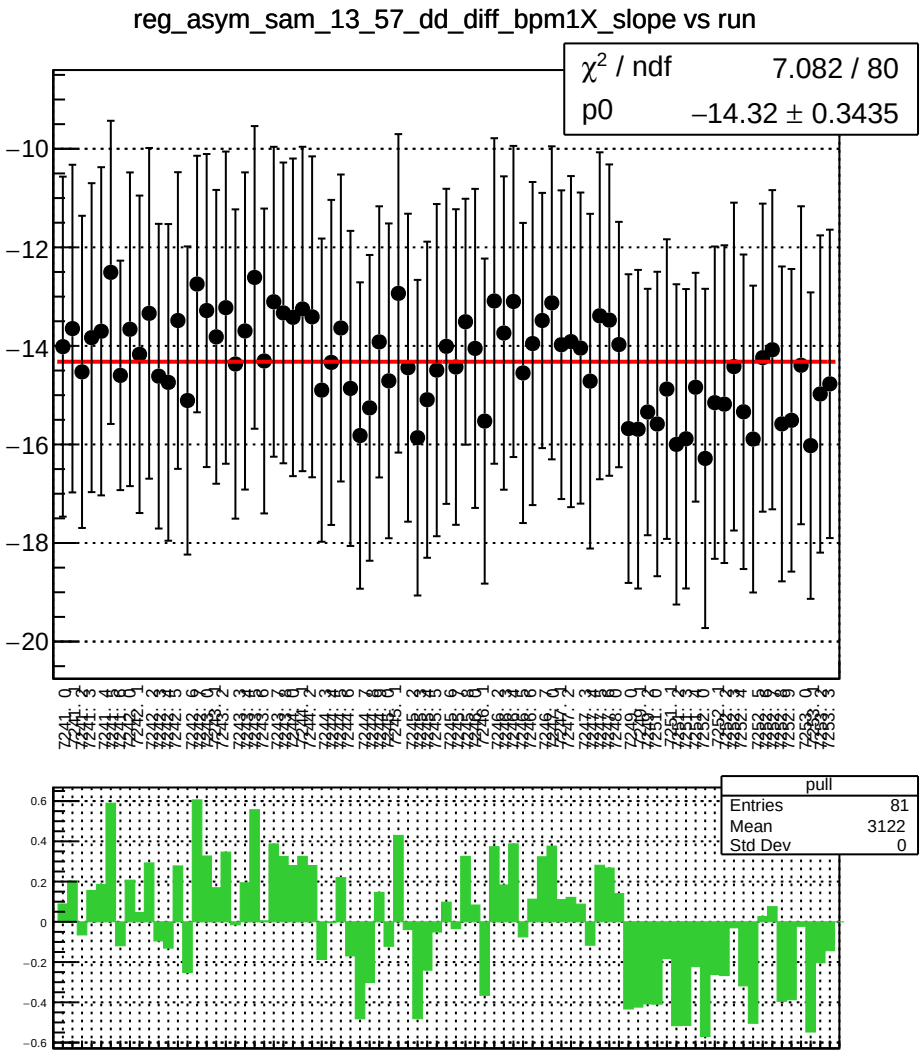

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.87 / 80
p0 30.17 ± 0.6239
pull
Entries 81
Mean 1667
Std Dev 0
pull1D
Entries 81
Mean −0.001821
Std Dev 0.2452

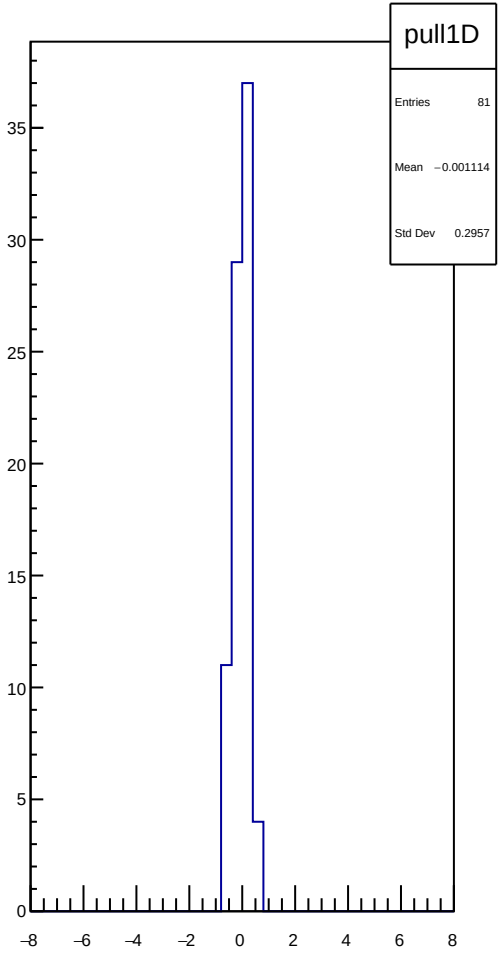

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.467 / 80
p0 −40.58 ± 0.8485
pull
Entries 81
Mean 1205
Std Dev 0
pull1D
Entries 81
Mean −0.001098
Std Dev 0.2348

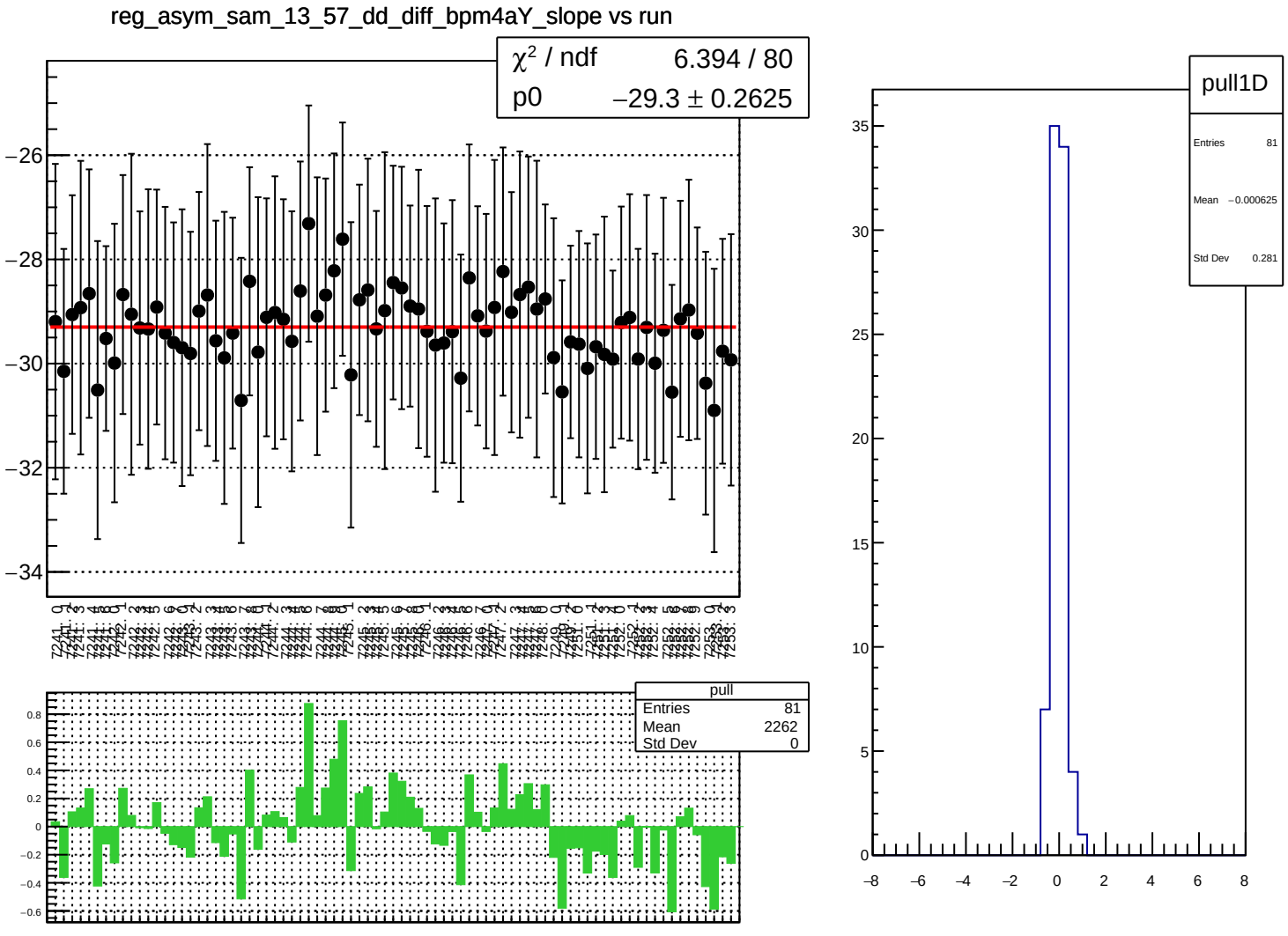

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.339 / 80
p0 71.47 ± 0.6704
pull
Entries 81
Mean 531.7
Std Dev 0

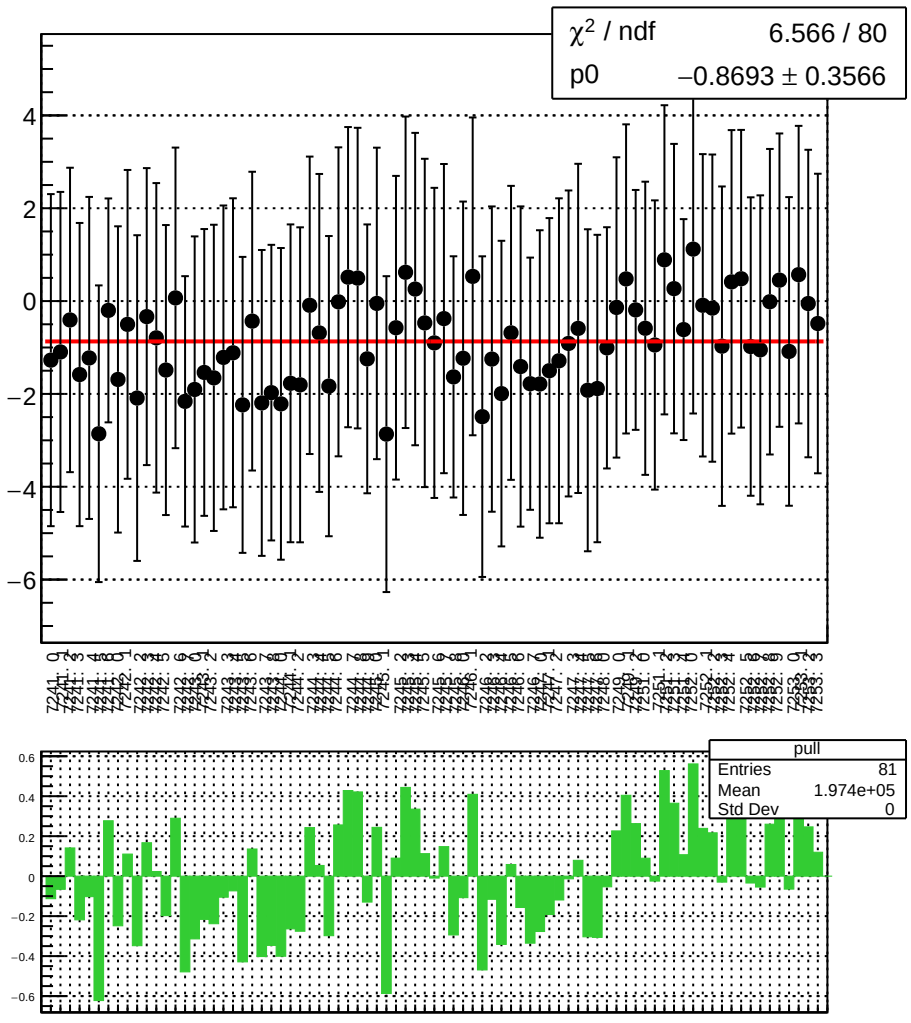

pull1D
Entries 81
Mean 0.006476
Std Dev 0.3208

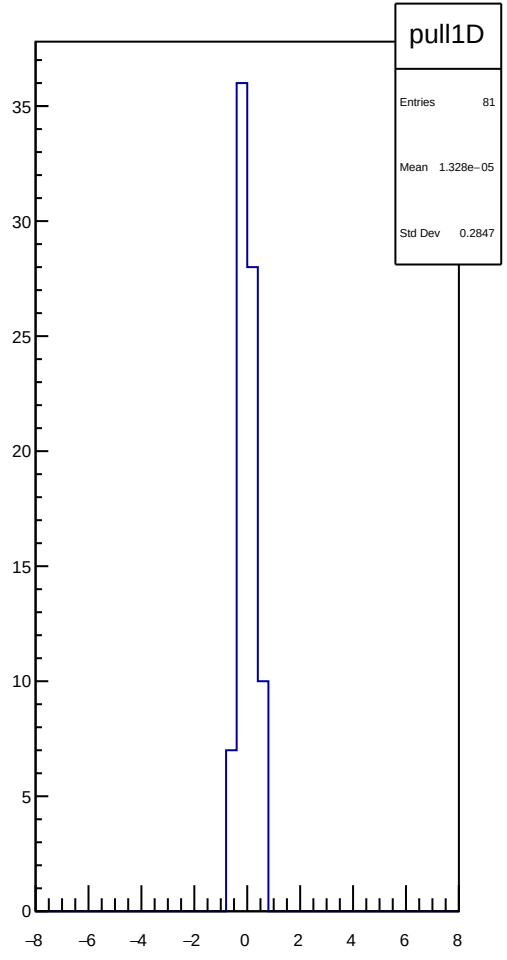

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 13.15 / 80
p0 −0.3731 ± 0.02986
pull
Entries 81
Mean −311.8
Std Dev 0
pull1D
Entries 81
Mean −0.01765
Std Dev 0.4026

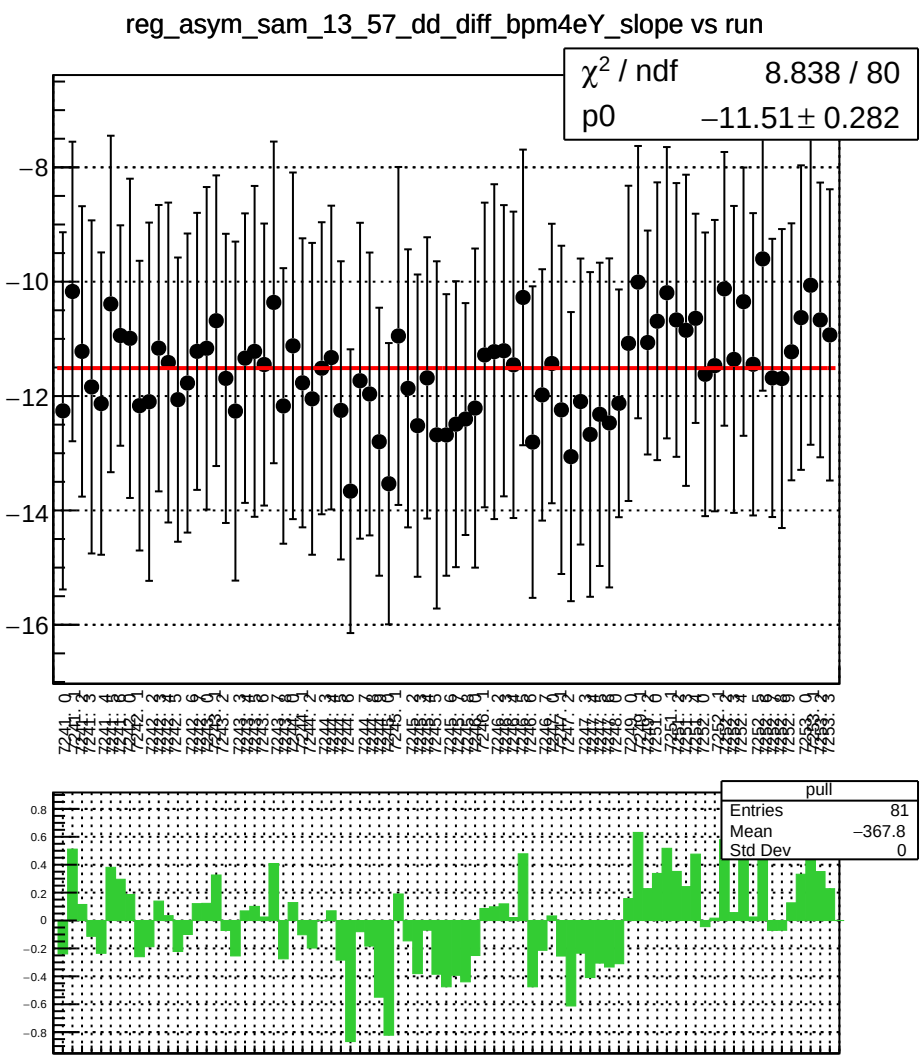

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 7.082 / 80
p0 −14.32 ± 0.3435
pull
Entries 81
Mean 3122
Std Dev 0

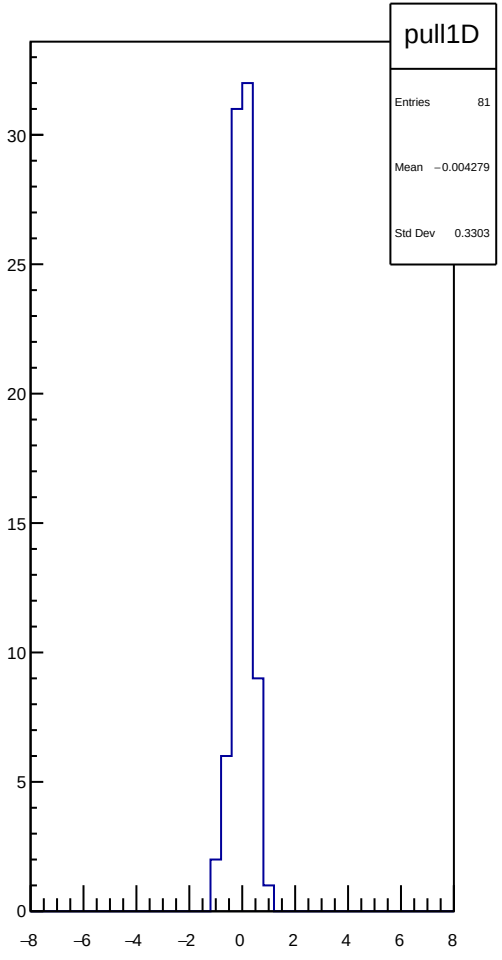

pull1D
Entries 81
Mean −0.001114
Std Dev 0.2957

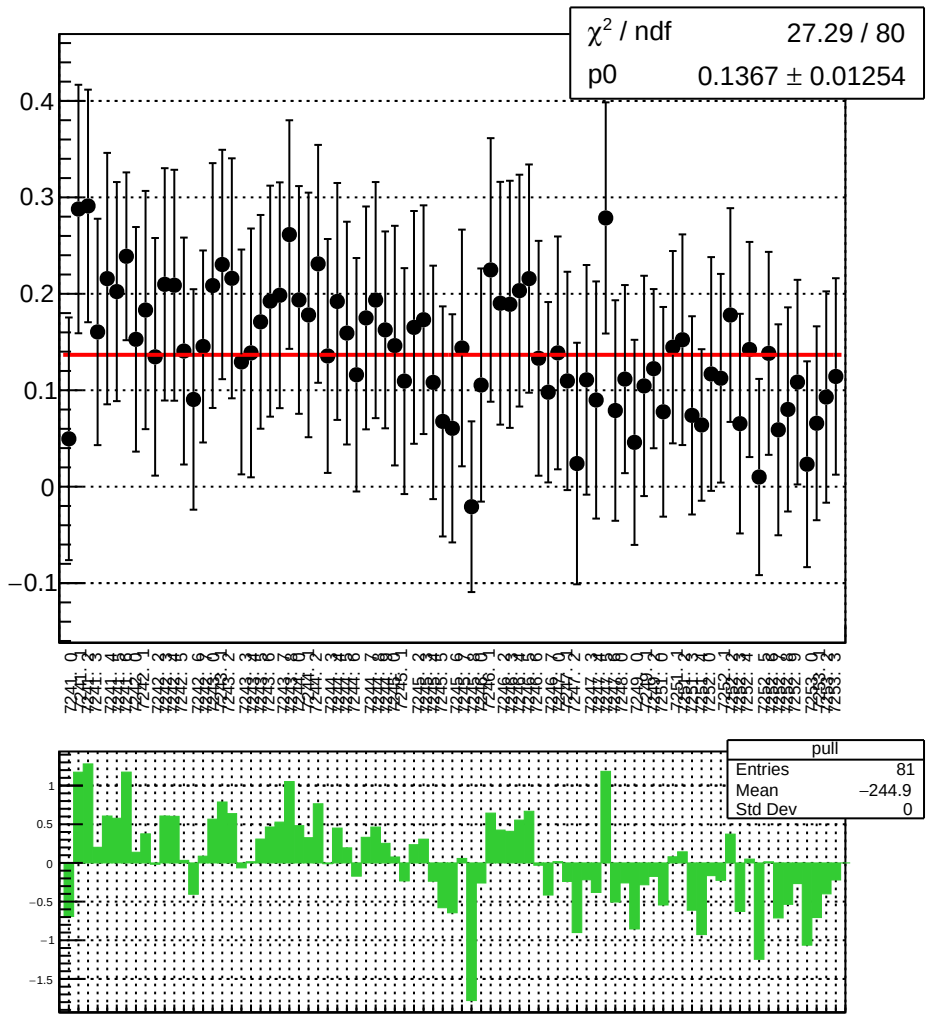

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.394 / 80
p0 −29.3 ± 0.2625
−26
−28
−30
−32
−34
pull
Entries 81
Mean 2262
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 81
Mean −0.000625
Std Dev 0.281
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

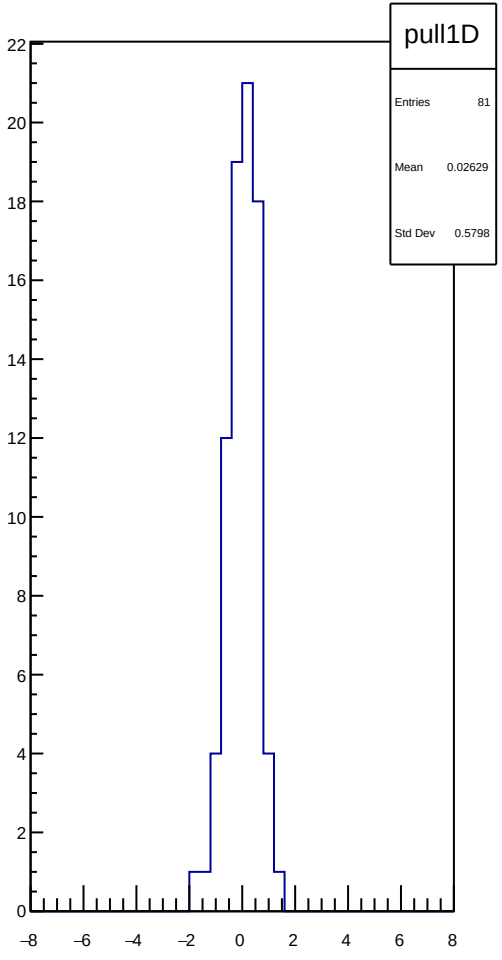

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.566 / 80
p0 −0.8693 ± 0.3566
pull
Entries 81
Mean 1.974e+05
Std Dev 0

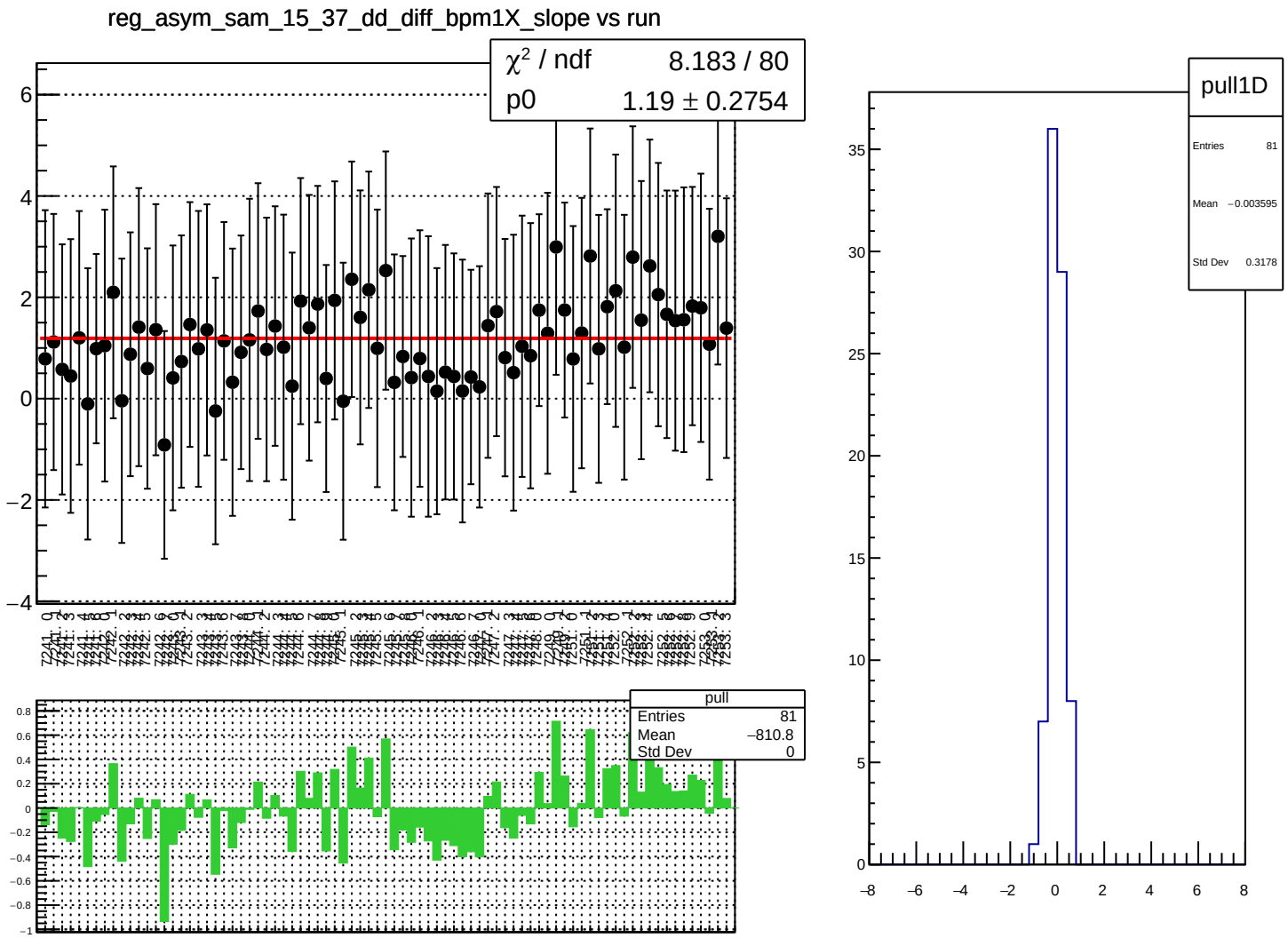

pull1D
Entries 81
Mean 1.328e−05
Std Dev 0.2847

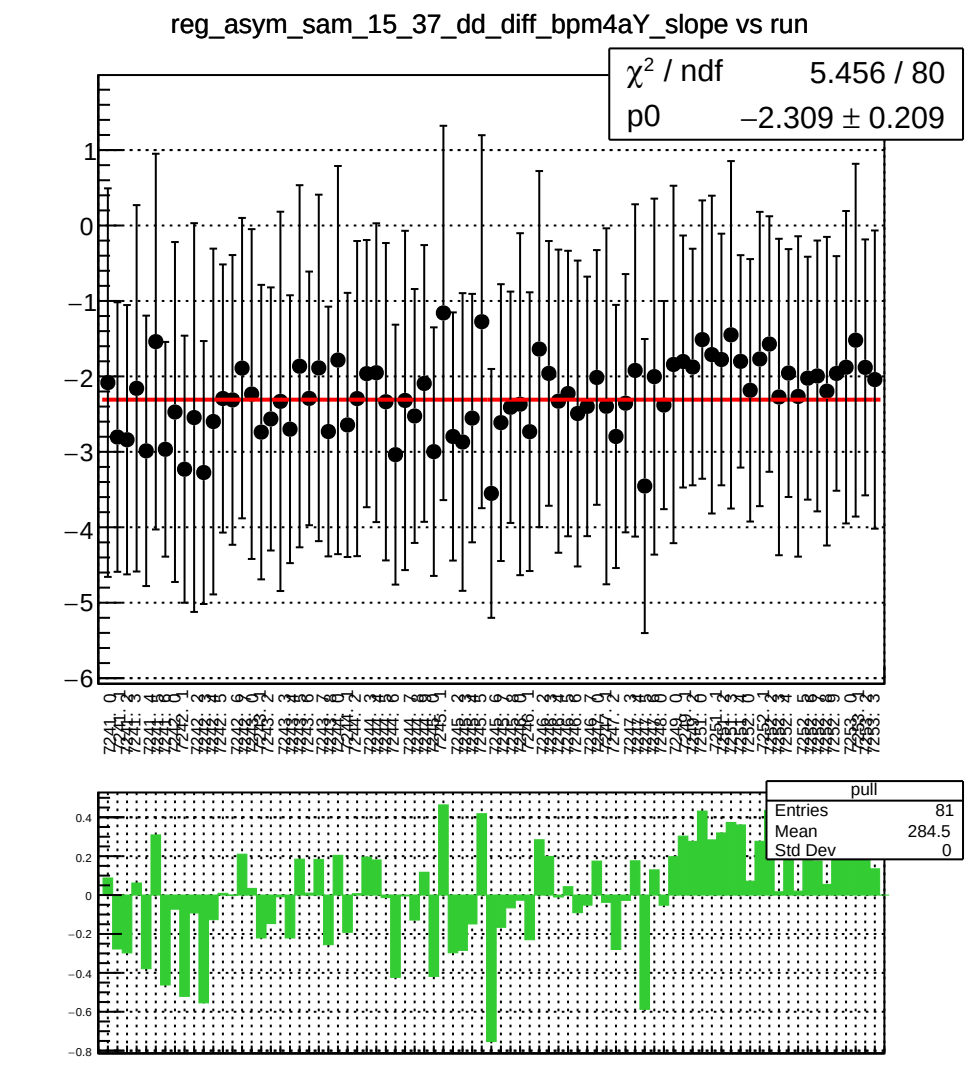

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.838 / 80
p0 −11.51 ± 0.282
pull
Entries 81
Mean −367.8
Std Dev 0

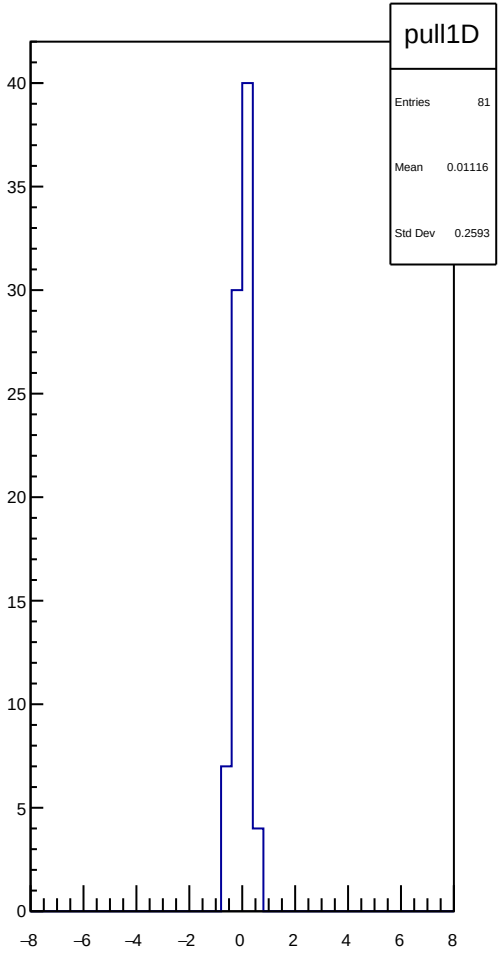

pull1D
Entries 81
Mean −0.004279
Std Dev 0.3303

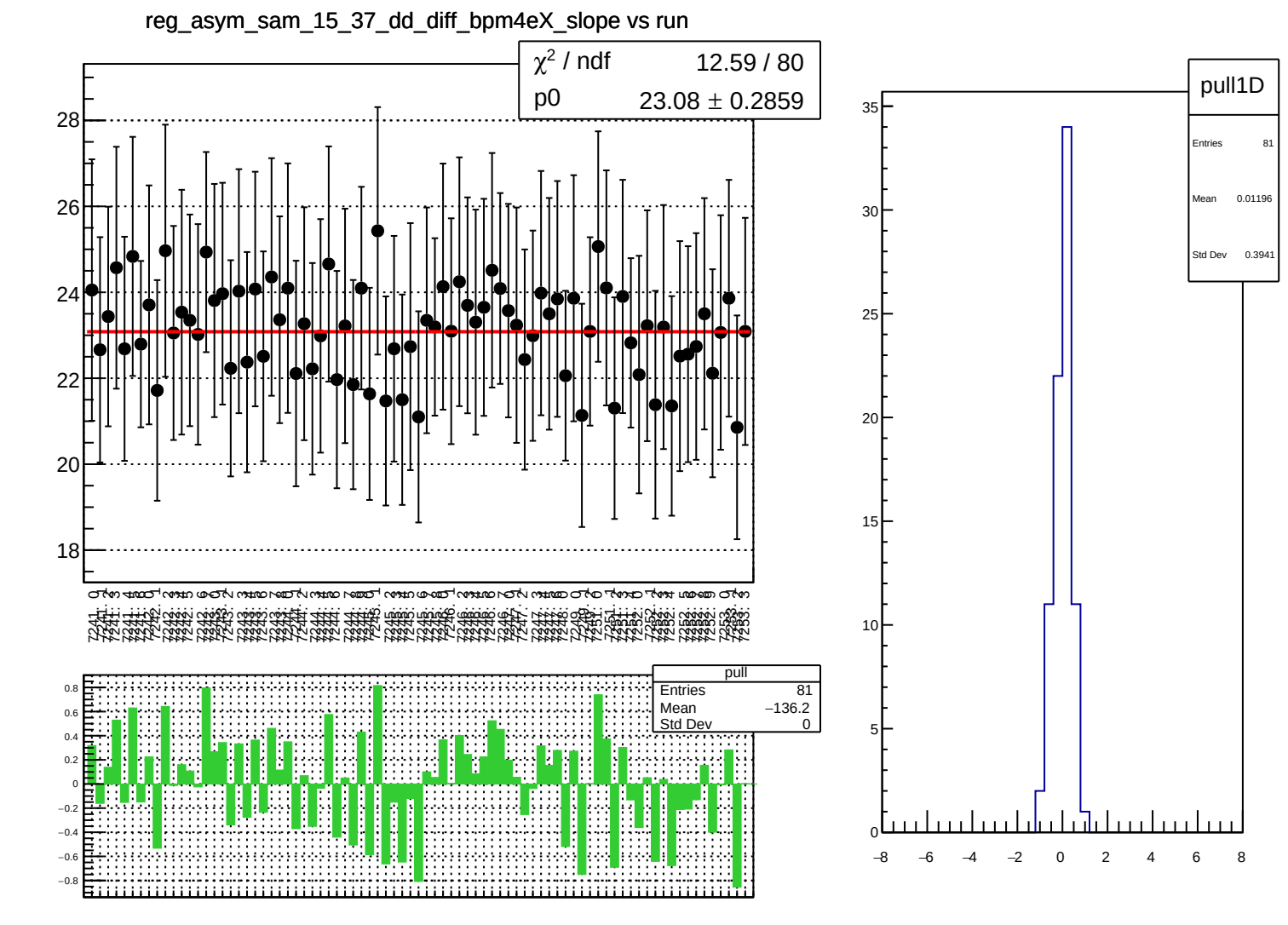

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 27.29 / 80
p0 0.1367 ± 0.01254
pull
Entries 81
Mean −244.9
Std Dev 0

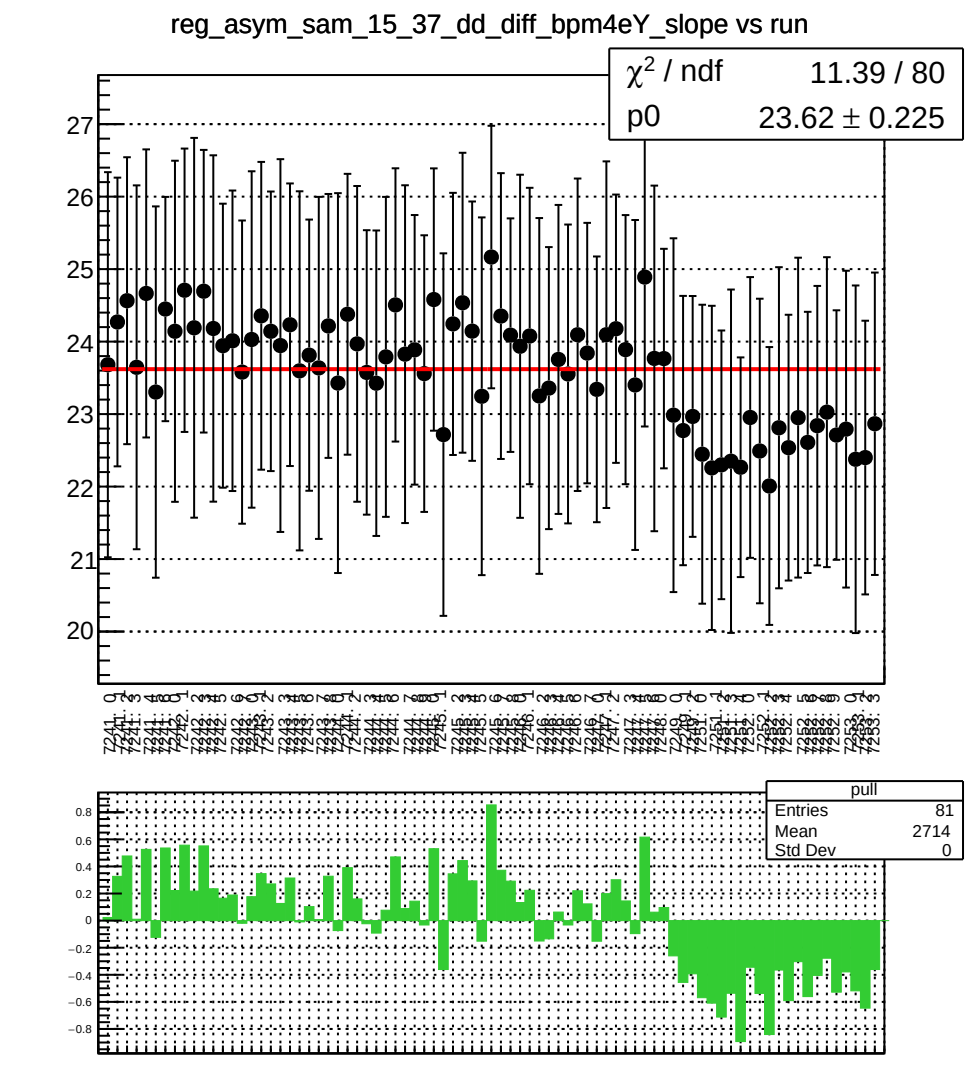

pull1D
Entries 81
Mean 0.02629
Std Dev 0.5798

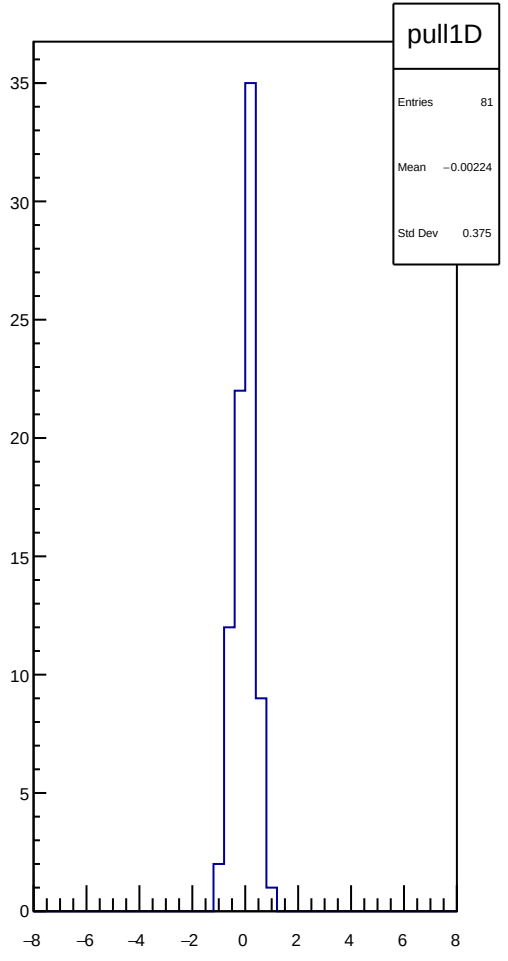

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 8.183 / 80
p0 1.19 ± 0.2754
pull
Entries 81
Mean −810.8
Std Dev 0
pull1D
Entries 81
Mean −0.003595
Std Dev 0.3178

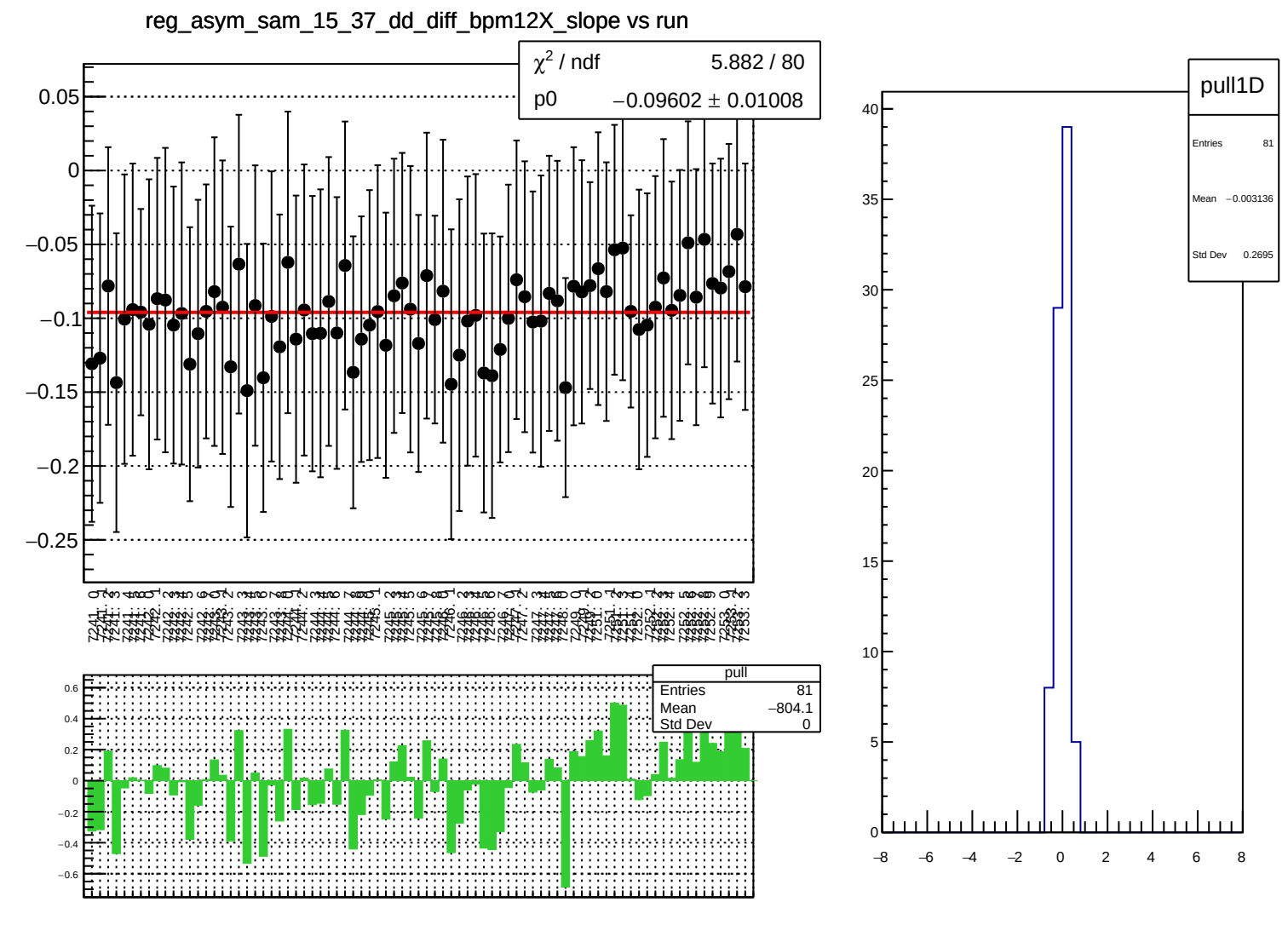

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.456 / 80
p0 −2.309 ± 0.209
pull
Entries 81
Mean 284.5
Std Dev 0

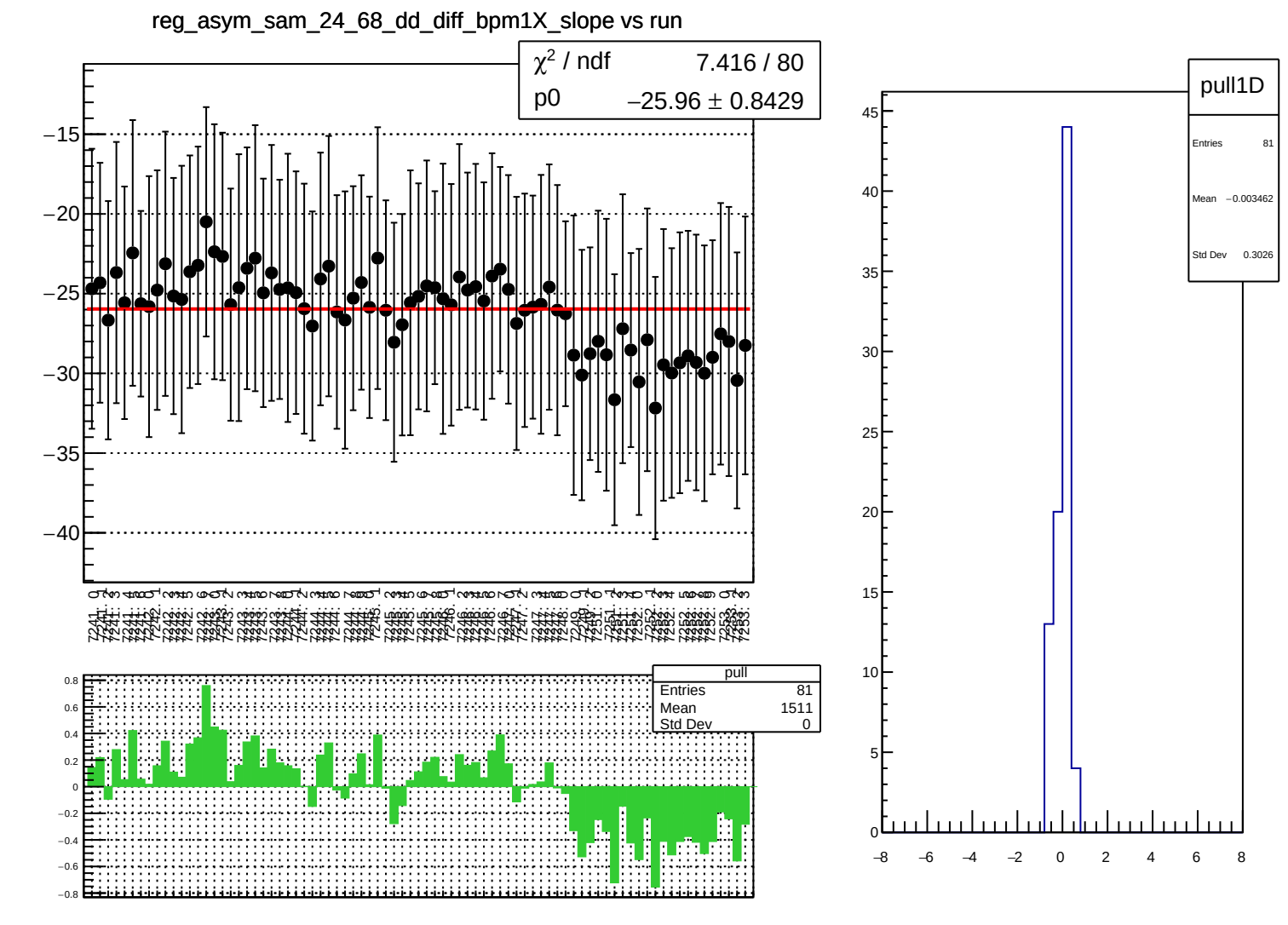

pull1D
Entries 81
Mean 0.01116
Std Dev 0.2593

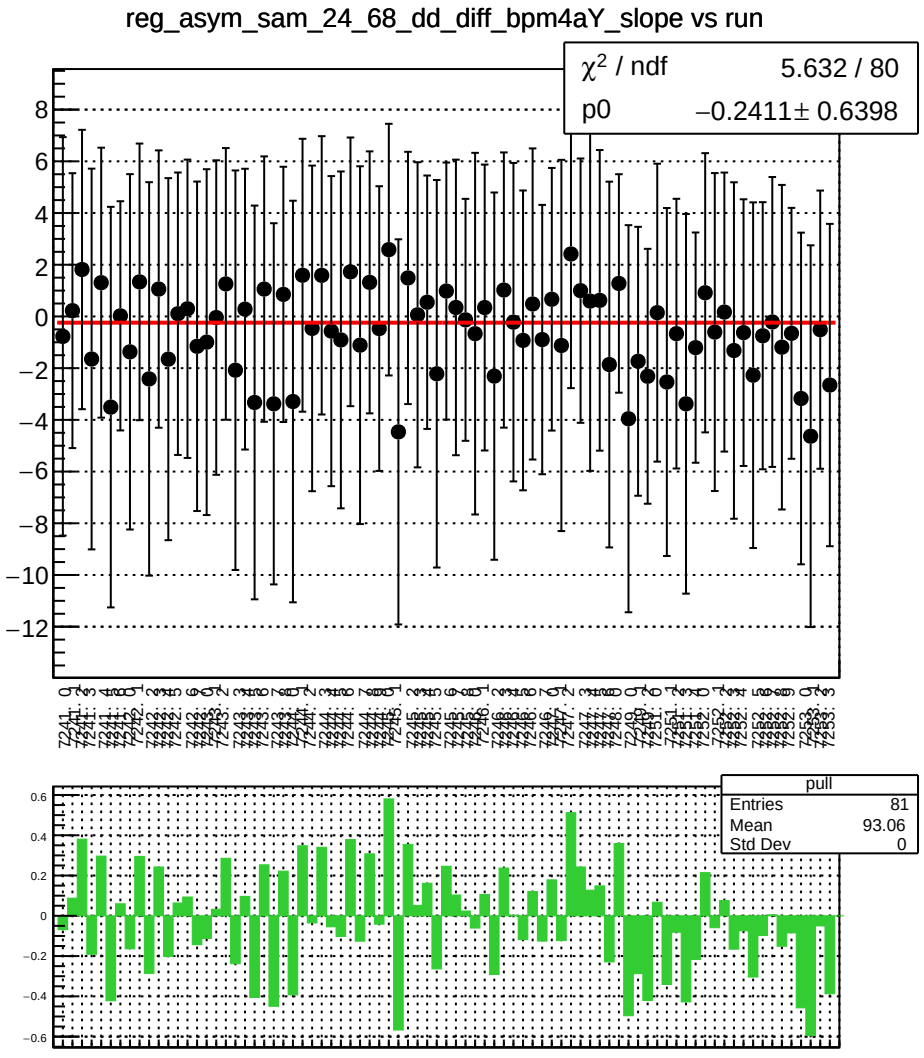

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 12.59 / 80
p0 23.08 ± 0.2859
pull
Entries 81
Mean −136.2
Std Dev 0
pull1D
Entries 81
Mean 0.01196
Std Dev 0.3941

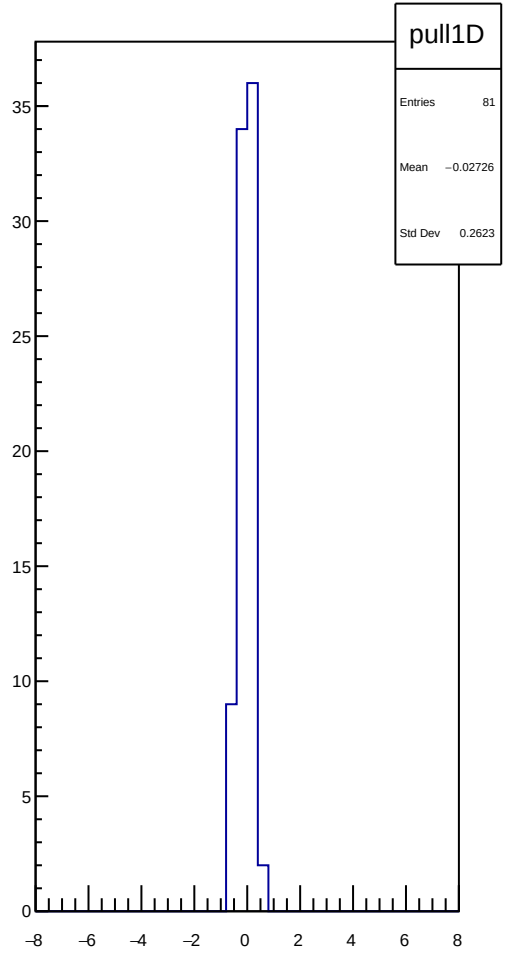

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.39 / 80
p0 23.62 ± 0.225
pull
Entries 81
Mean 2714
Std Dev 0

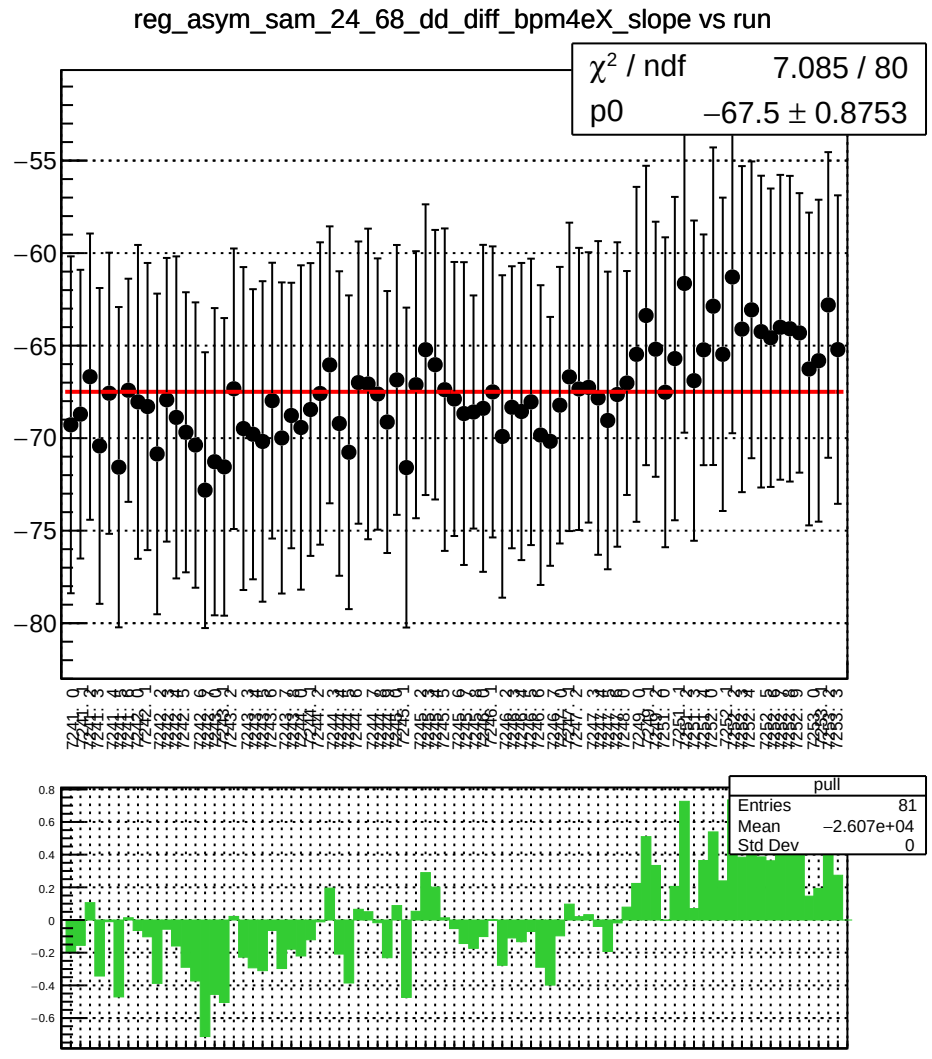

pull1D
Entries 81
Mean −0.00224
Std Dev 0.375

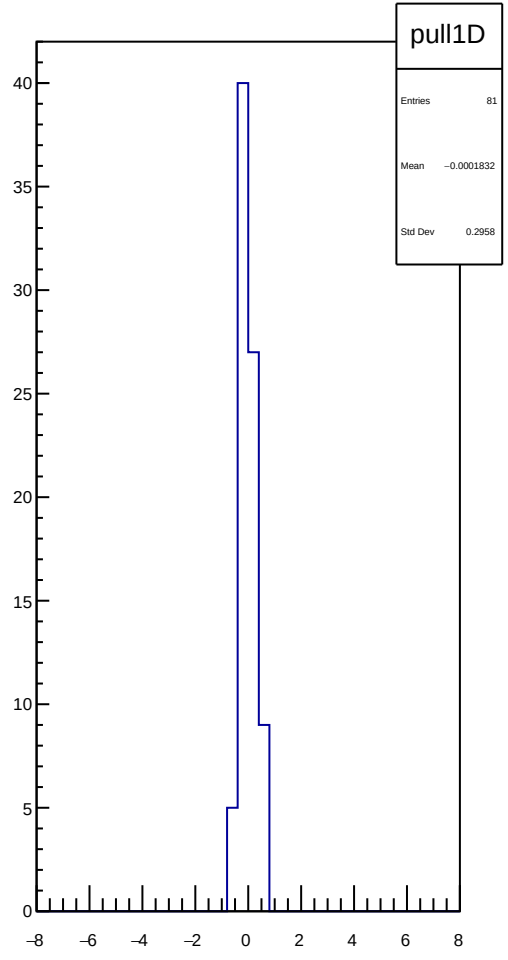

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 5.882 / 80
p0 −0.09602 ± 0.01008
pull
Entries 81
Mean −804.1
Std Dev 0
pull1D
Entries 81
Mean −0.003136
Std Dev 0.2695

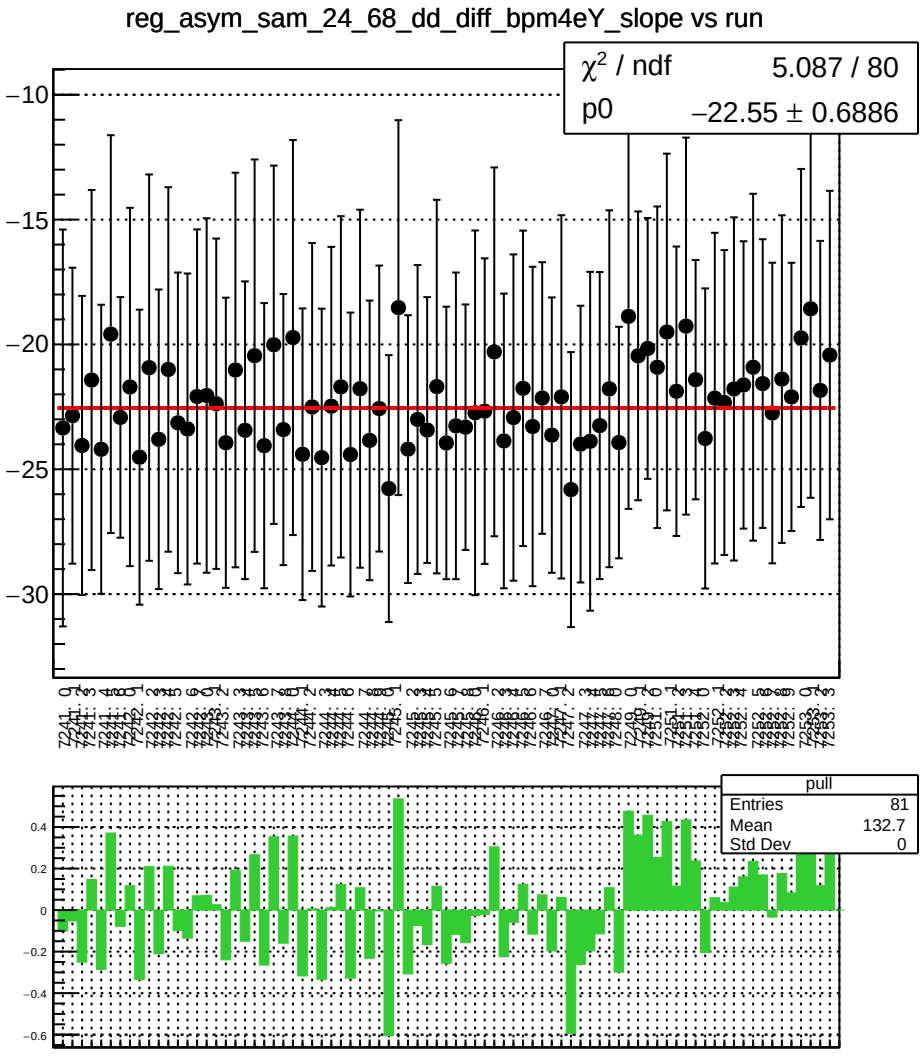

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 7.416 / 80
p0 −25.96 ± 0.8429
pull
Entries 81
Mean 1511
Std Dev 0
pull1D
Entries 81
Mean −0.003462
Std Dev 0.3026

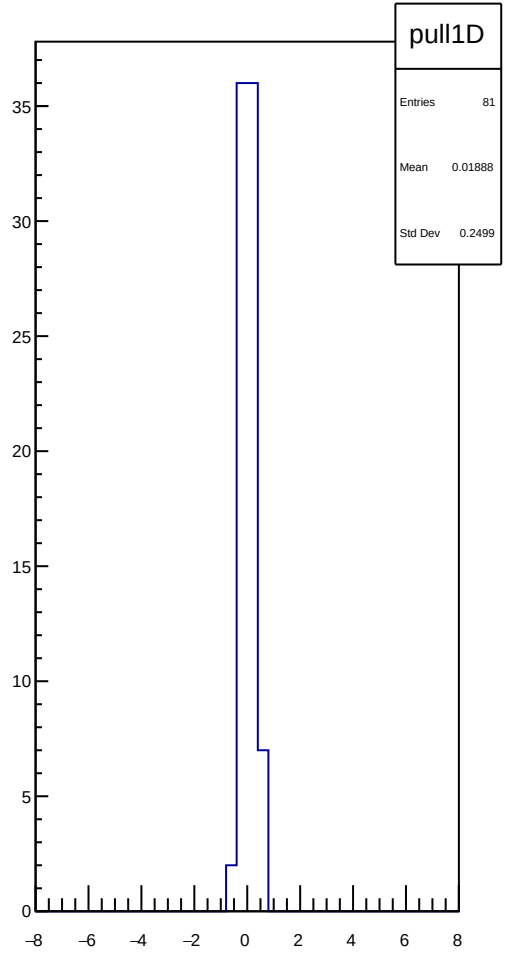

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.632 / 80
p0 −0.2411± 0.6398
pull
Entries 81
Mean 93.06
Std Dev 0

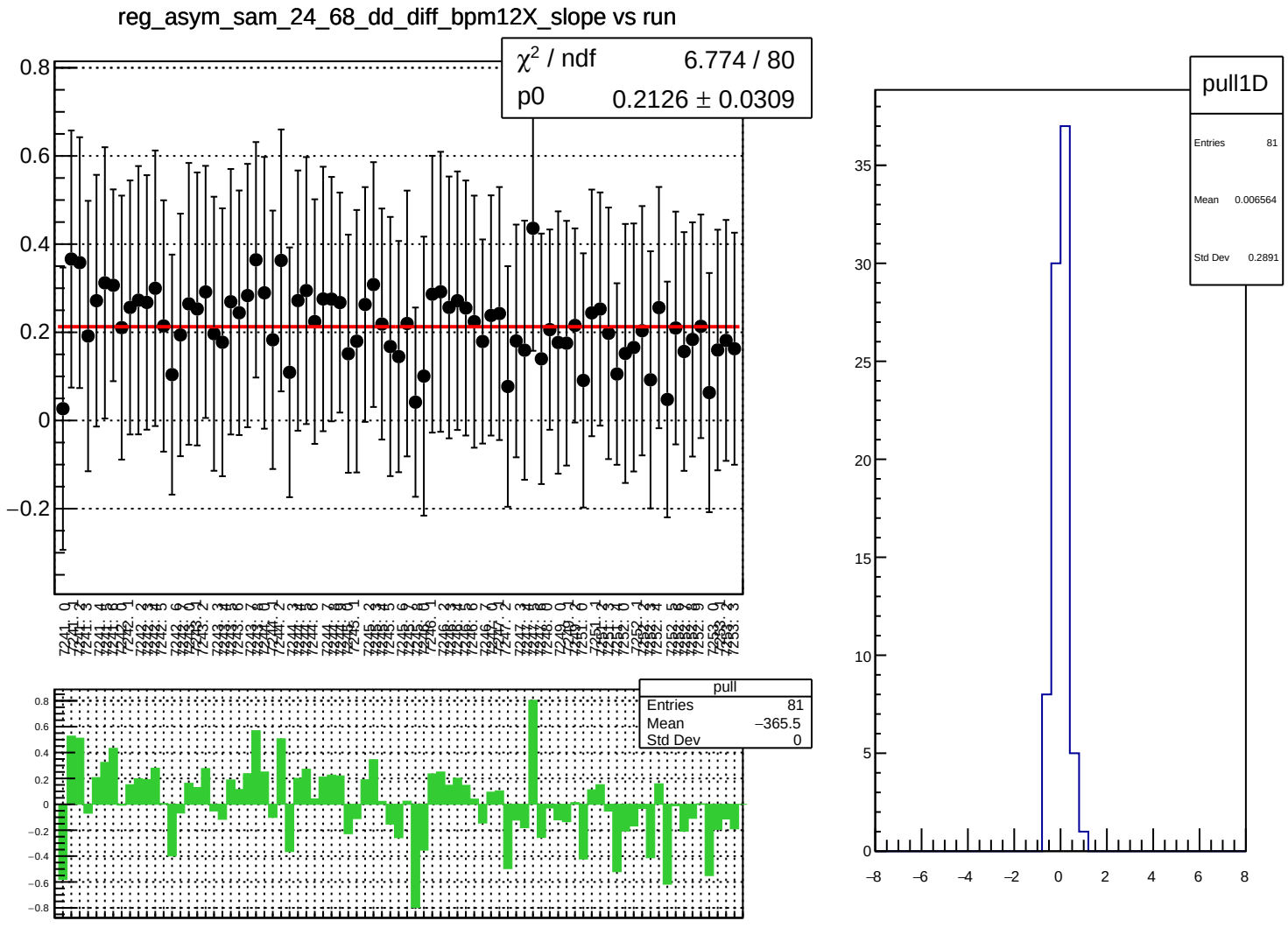

pull1D
Entries 81
Mean −0.02726
Std Dev 0.2623

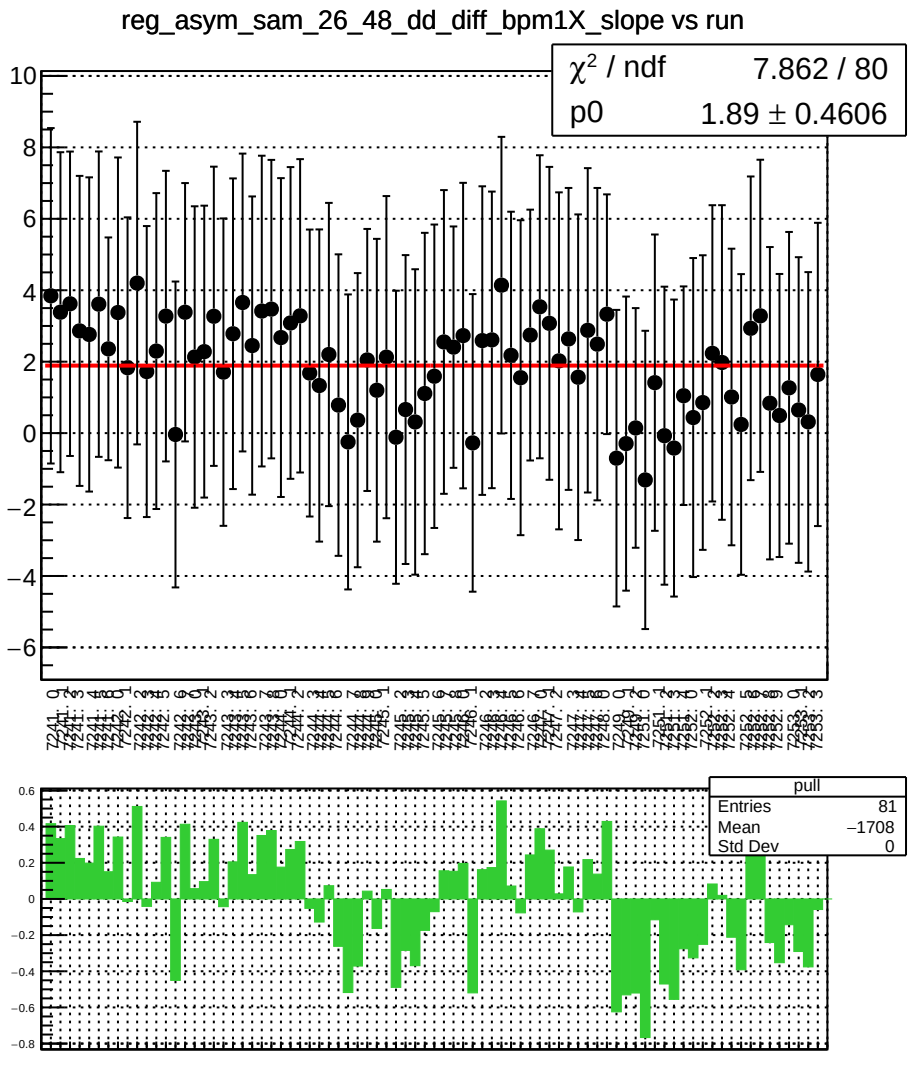

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.085 / 80
p0 −67.5 ± 0.8753
pull
Entries 81
Mean −2.607e+04
Std Dev 0

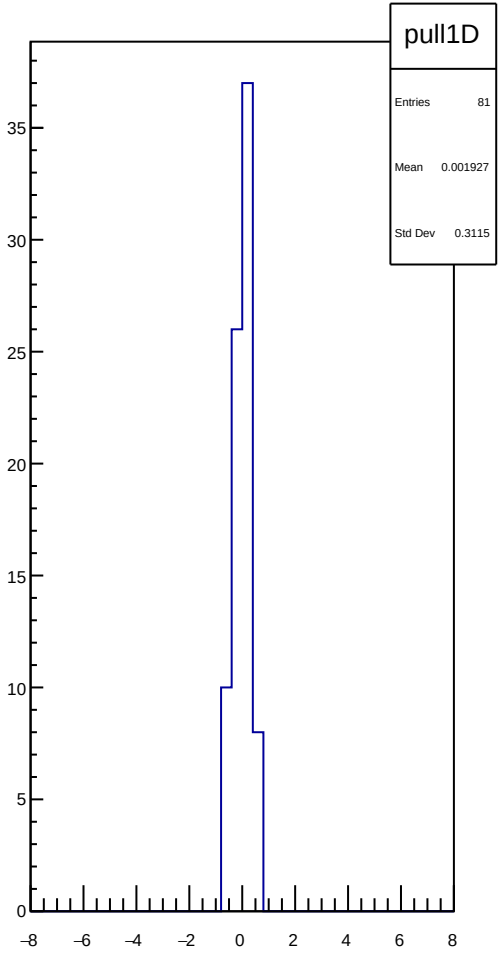

pull1D
Entries 81
Mean −0.0001832
Std Dev 0.2958

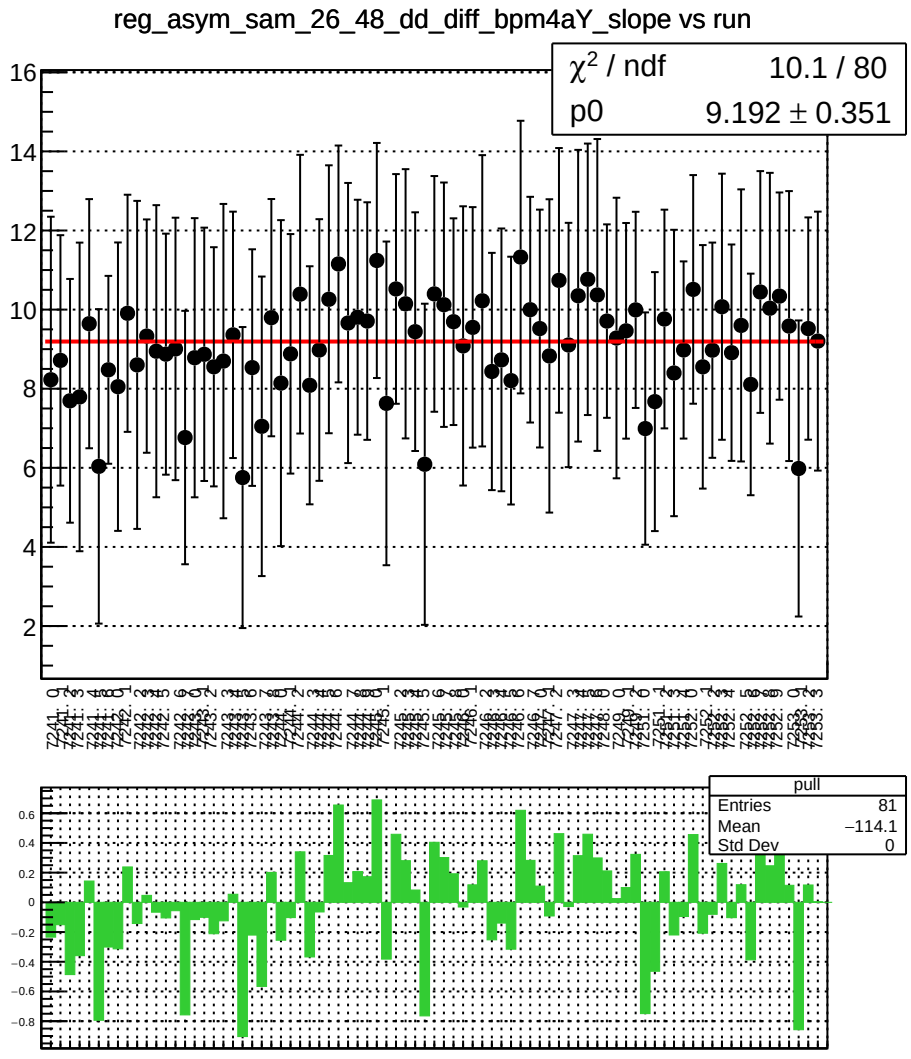

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.087 / 80
p0 −22.55 ± 0.6886
pull
Entries 81
Mean 132.7
Std Dev 0

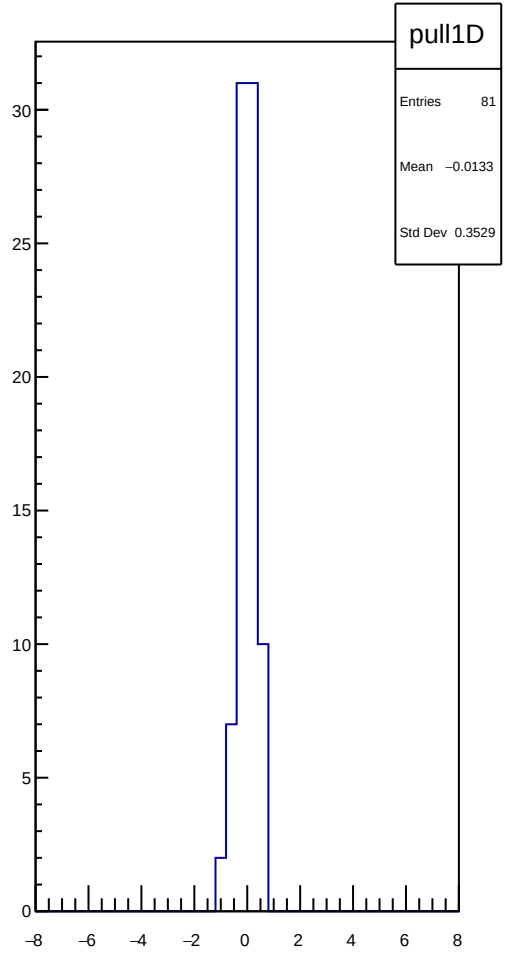

pull1D
Entries 81
Mean 0.01888
Std Dev 0.2499

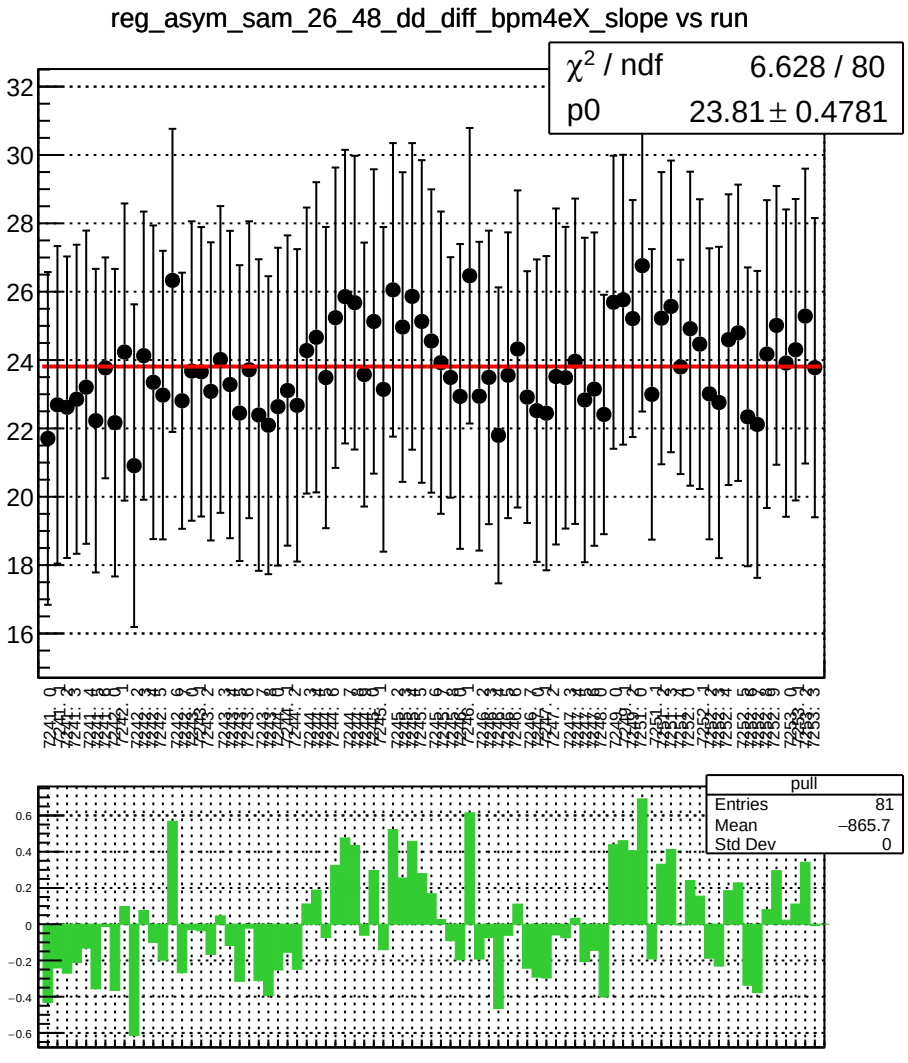

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 6.774 / 80
p0 0.2126 ± 0.0309
pull
Entries 81
Mean −365.5
Std Dev 0
pull1D
Entries 81
Mean 0.006564
Std Dev 0.2891

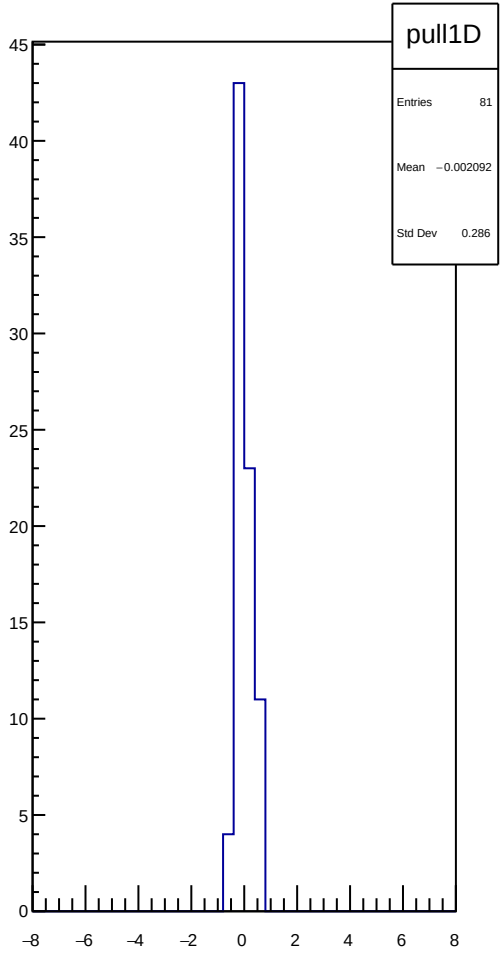

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 7.862 / 80
p0 1.89 ± 0.4606
pull
Entries 81
Mean −1708
Std Dev 0

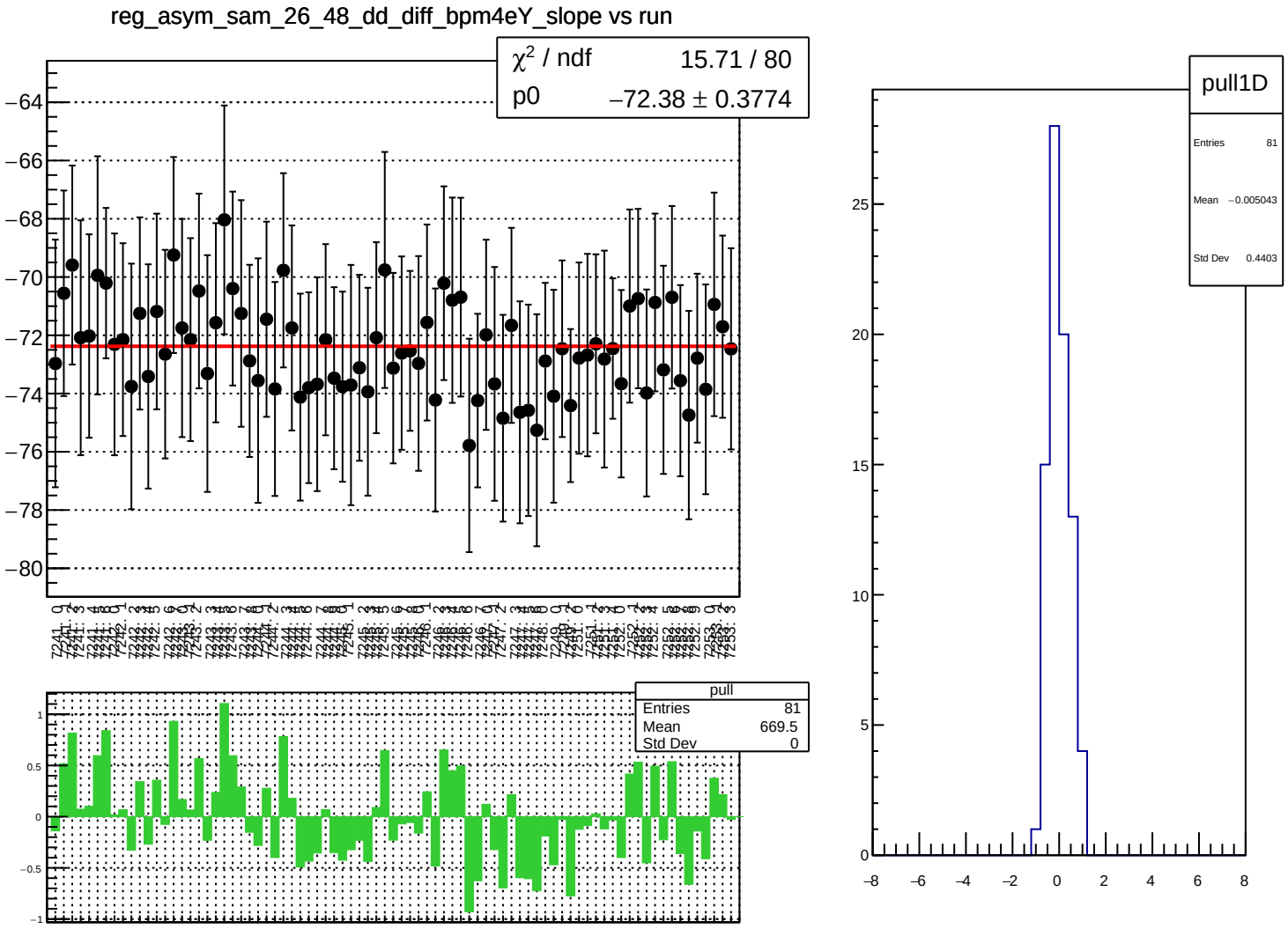

pull1D
Entries 81
Mean 0.001927
Std Dev 0.3115

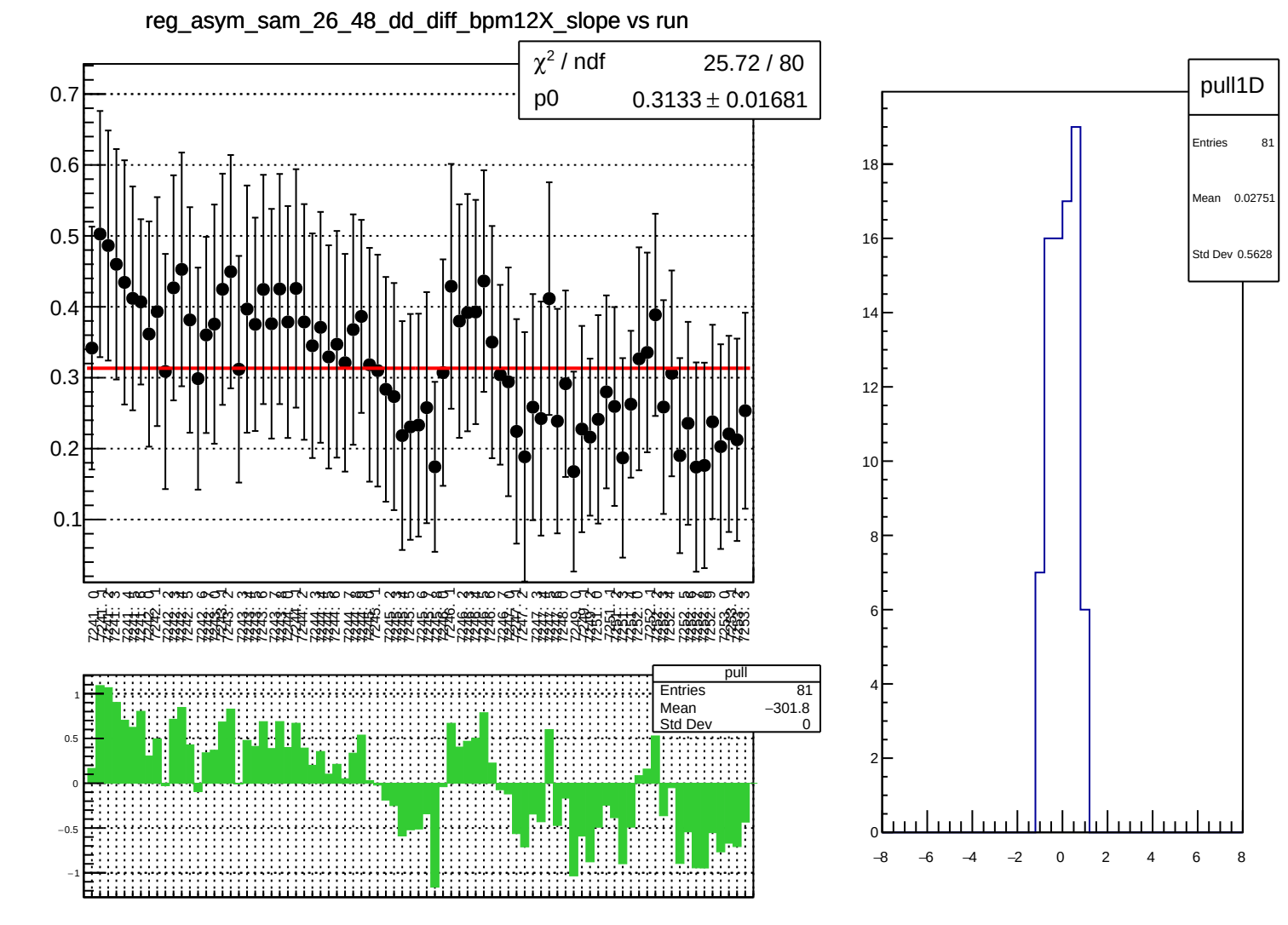

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.1 / 80
p0 9.192 ± 0.351
pull
Entries 81
Mean −114.1
Std Dev 0

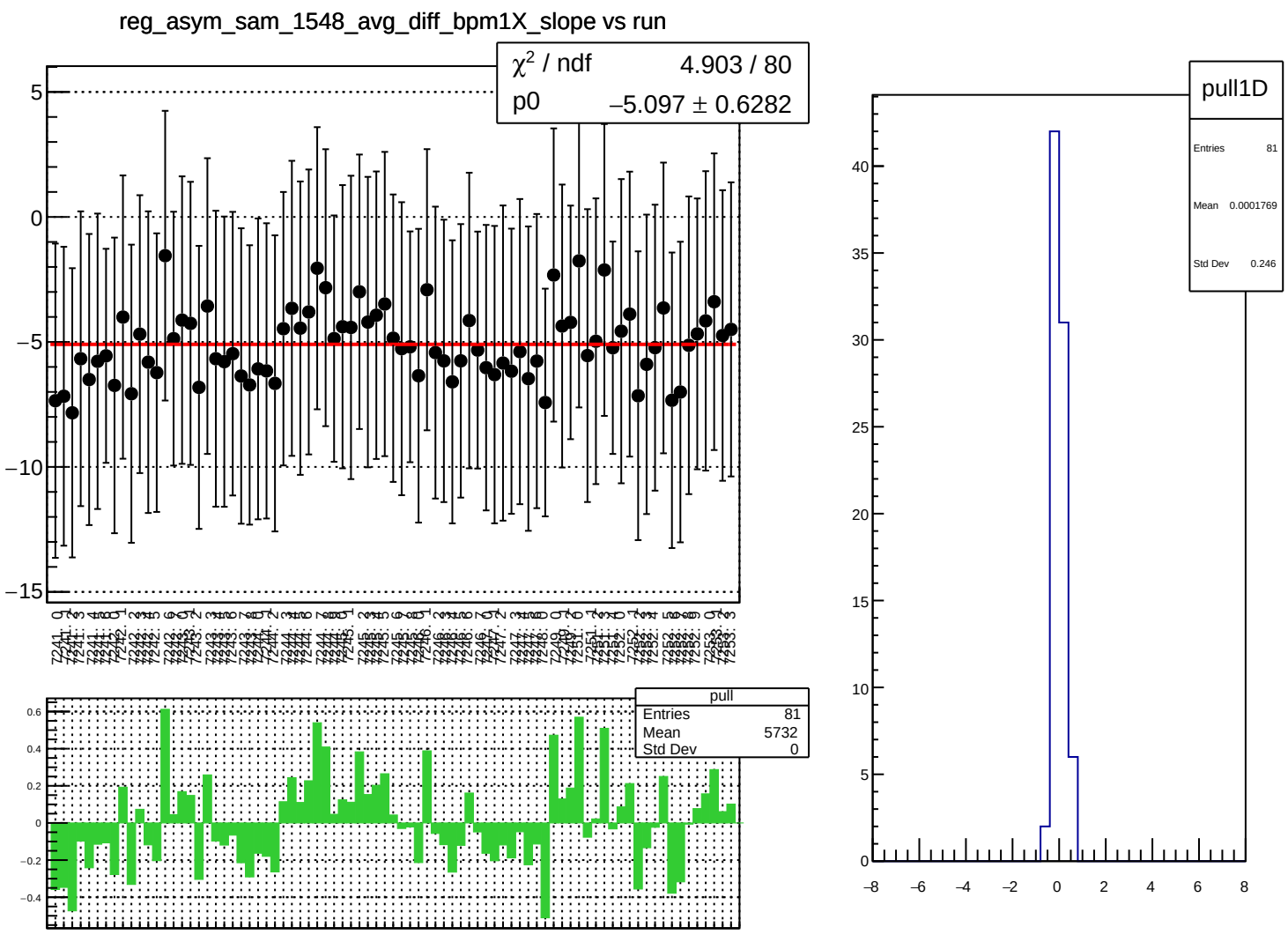

pull1D
Entries 81
Mean −0.0133
Std Dev 0.3529

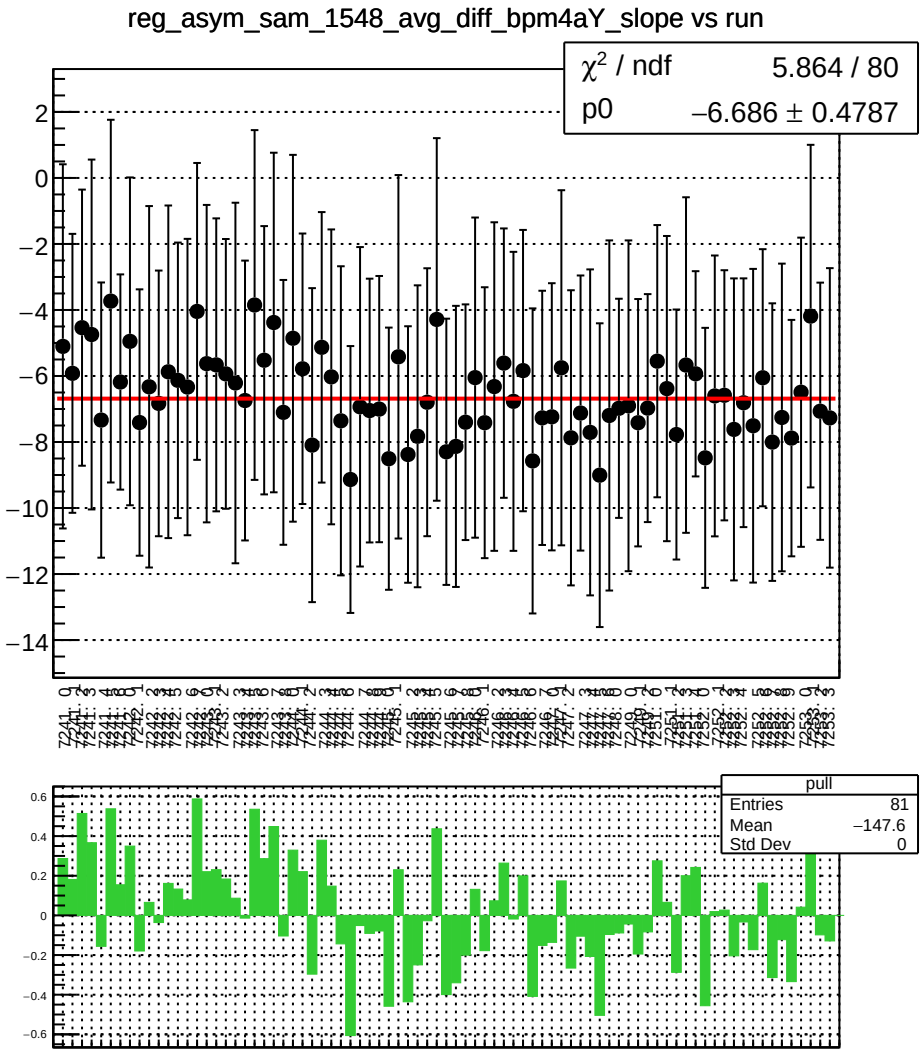

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.628 / 80
p0 23.81 ± 0.4781
pull
Entries 81
Mean −865.7
Std Dev 0

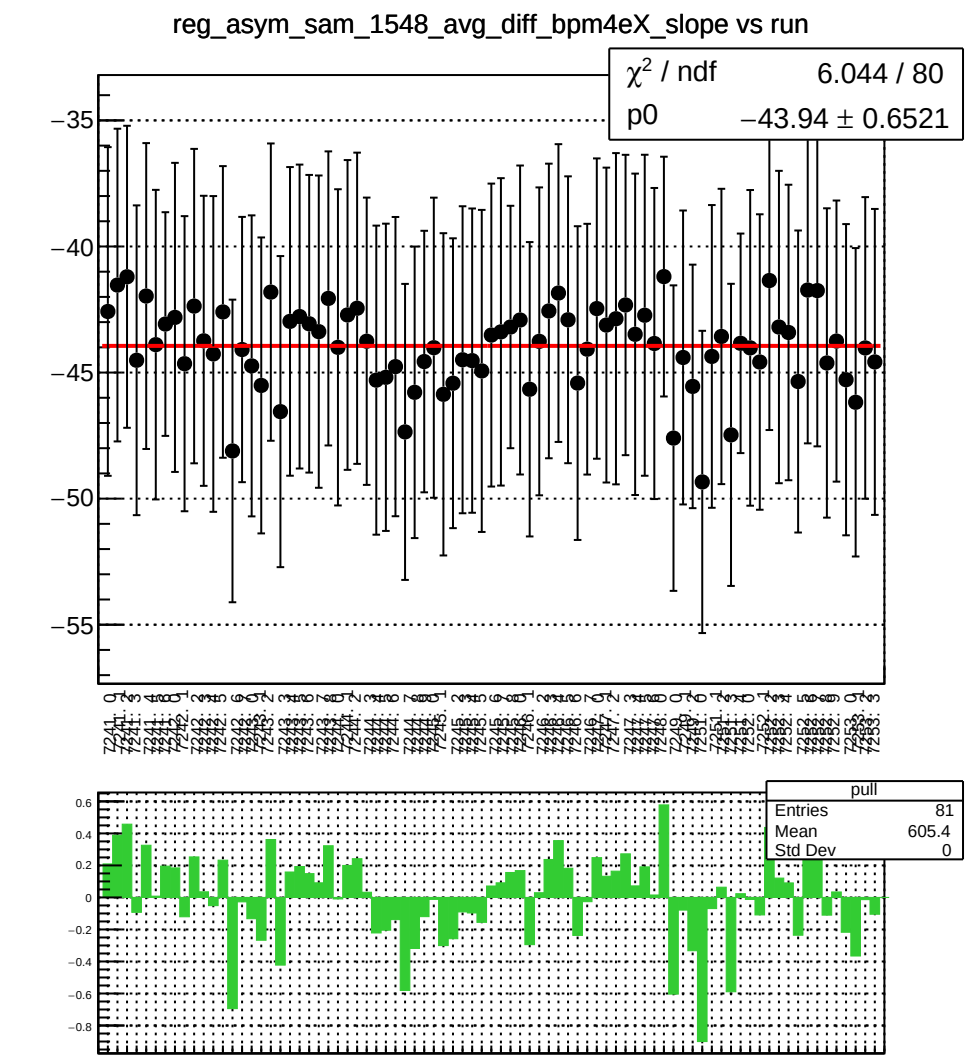

pull1D
Entries 81
Mean −0.002092
Std Dev 0.286

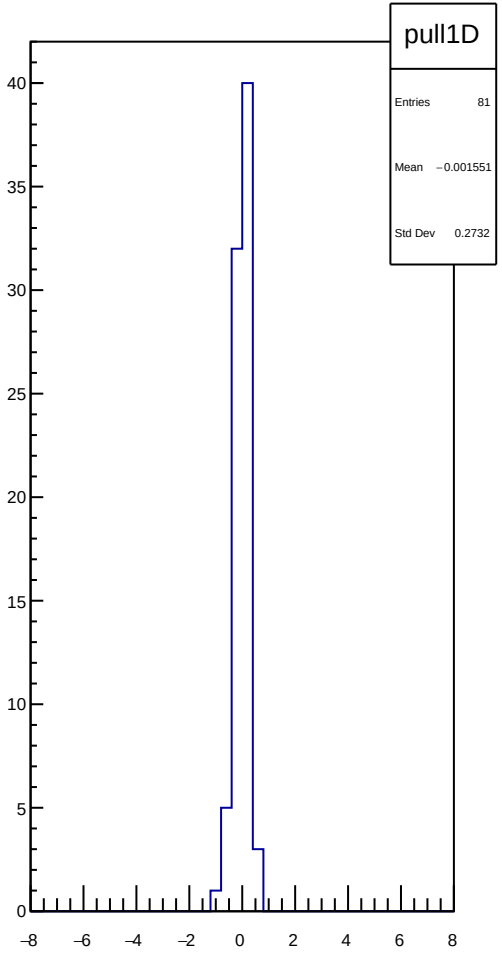

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.71 / 80
p0 −72.38 ± 0.3774
pull
Entries 81
Mean 669.5
Std Dev 0
pull1D
Entries 81
Mean −0.005043
Std Dev 0.4403

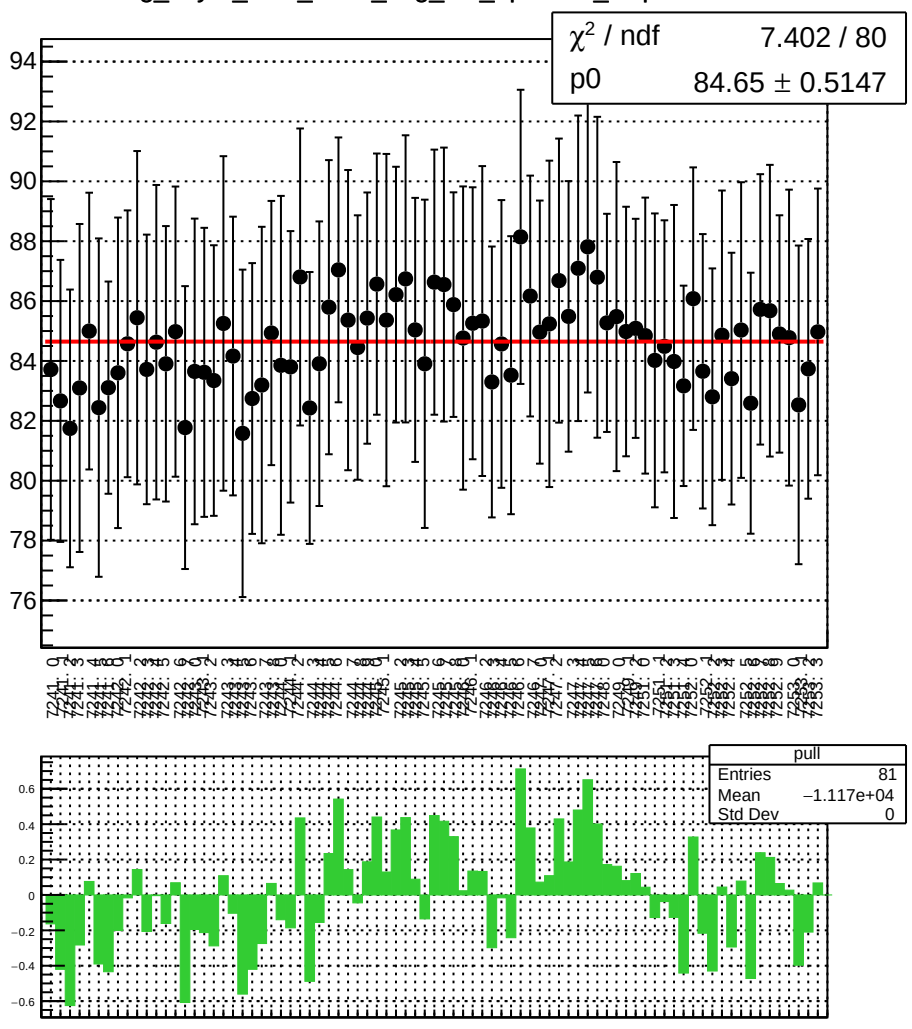

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 25.72 / 80
p0 0.3133 ± 0.01681
pull
Entries 81
Mean −301.8
Std Dev 0
pull1D
Entries 81
Mean 0.02751
Std Dev 0.5628

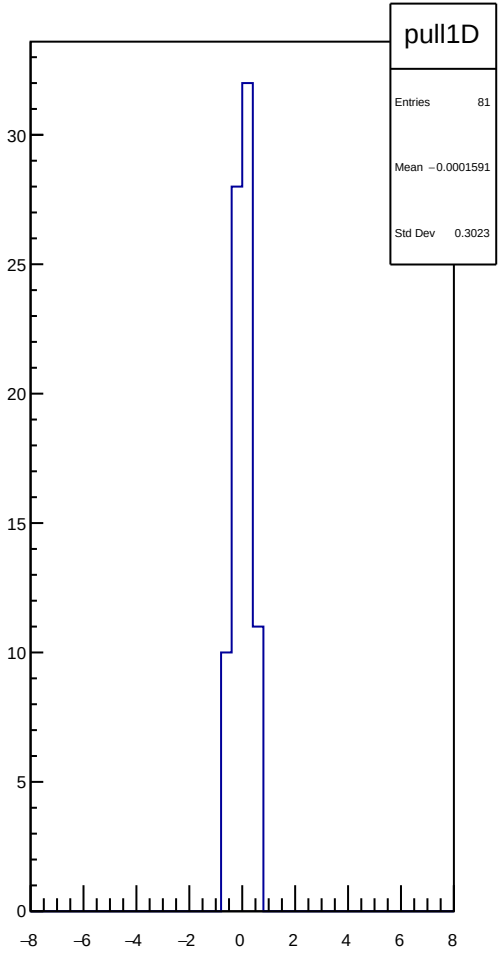

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 4.903 / 80
p0 −5.097 ± 0.6282
pull
Entries 81
Mean 5732
Std Dev 0
pull1D
Entries 81
Mean 0.0001769
Std Dev 0.246

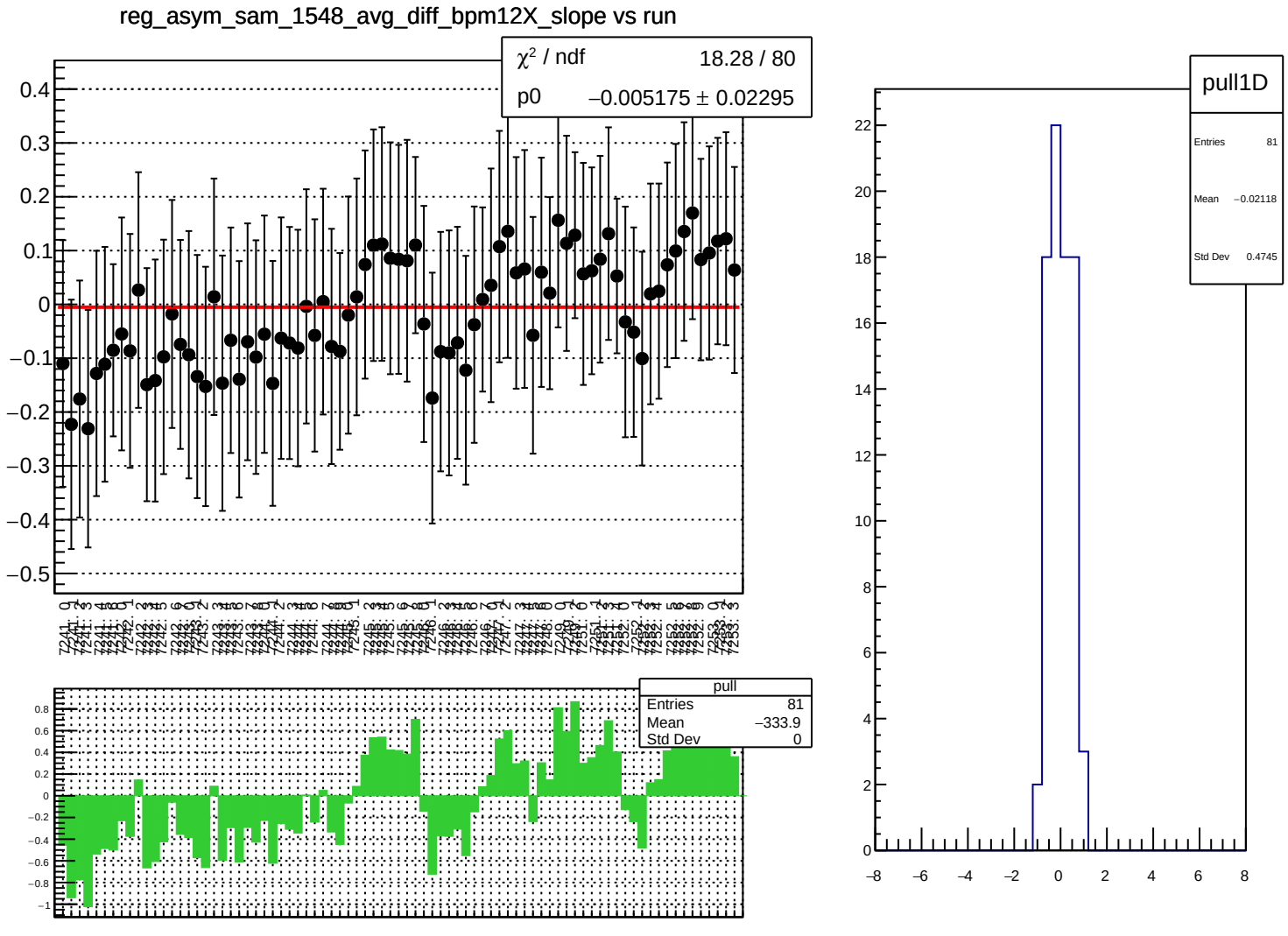

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.864 / 80
p0 −6.686 ± 0.4787
pull
Entries 81
Mean −147.6
Std Dev 0
pull1D
Entries 81
Mean 0.0125
Std Dev 0.2688

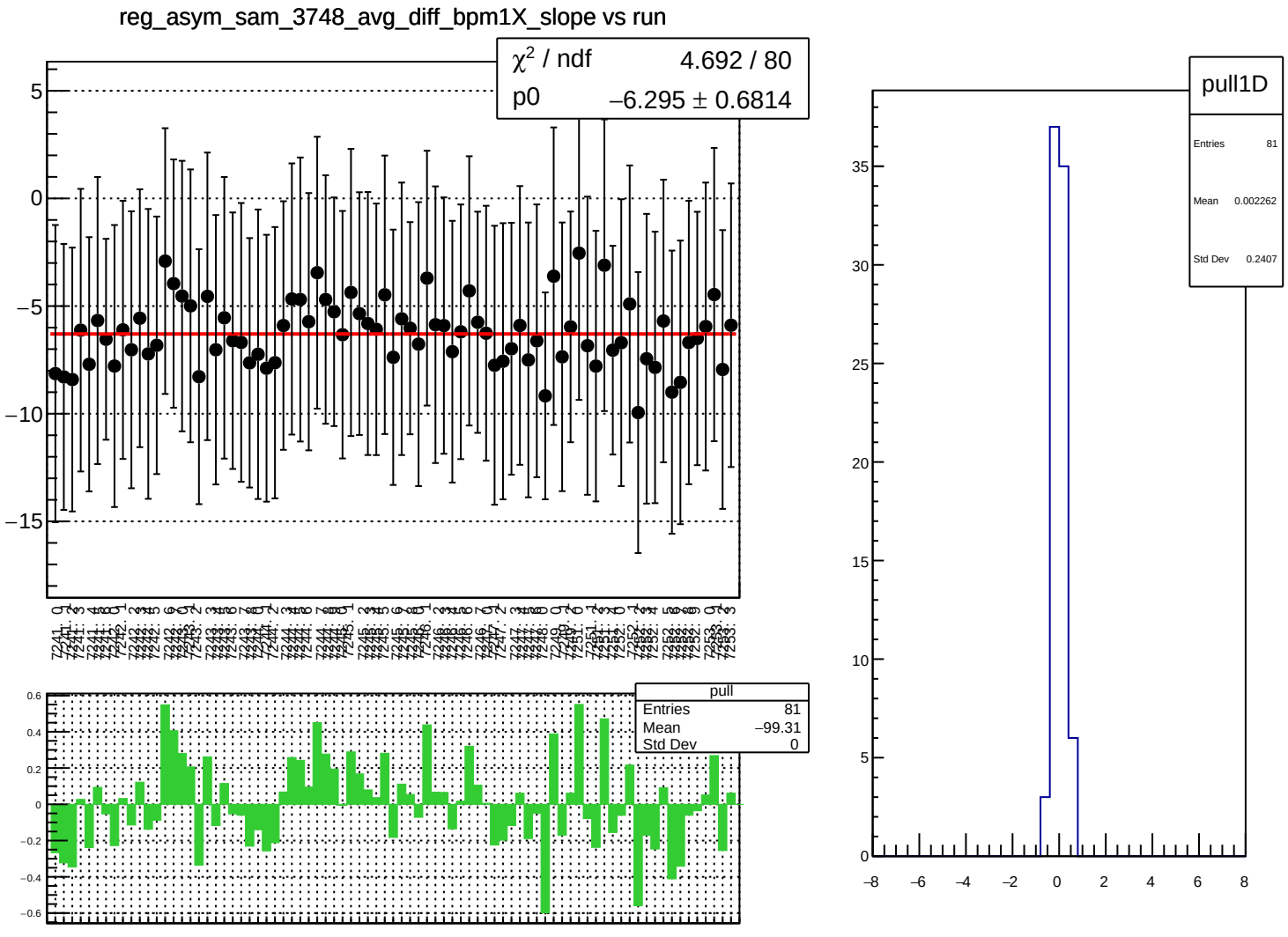

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.044 / 80
p0 −43.94 ± 0.6521
pull
Entries 81
Mean 605.4
Std Dev 0

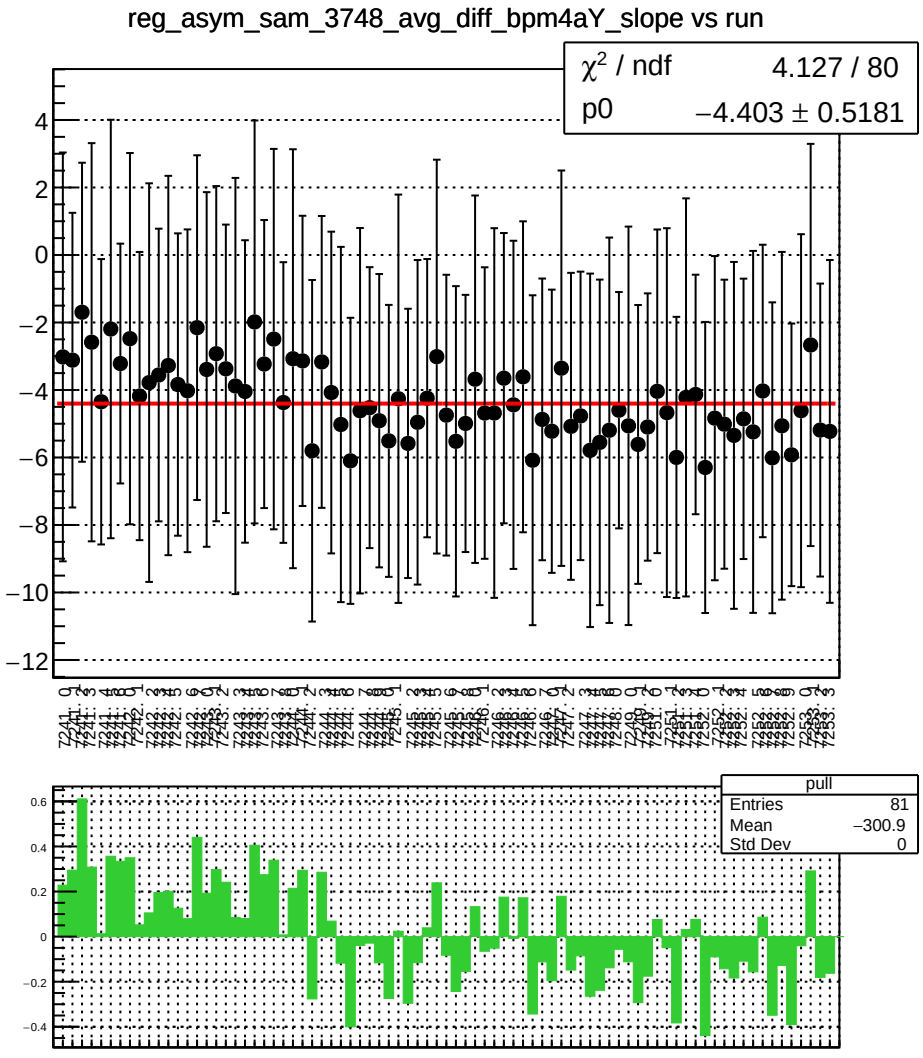

pull1D
Entries 81
Mean −0.001551
Std Dev 0.2732

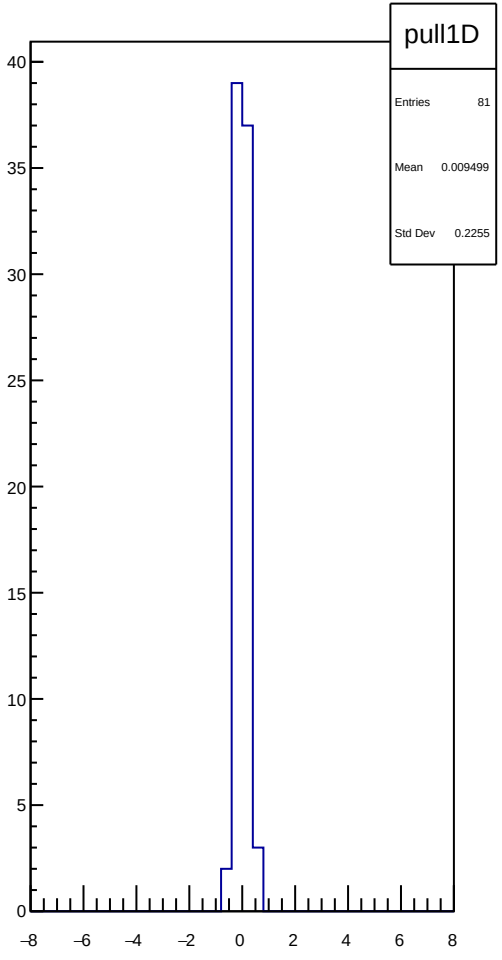

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.402 / 80
p0 84.65 ± 0.5147
pull
Entries 81
Mean −1.117e+04
Std Dev 0

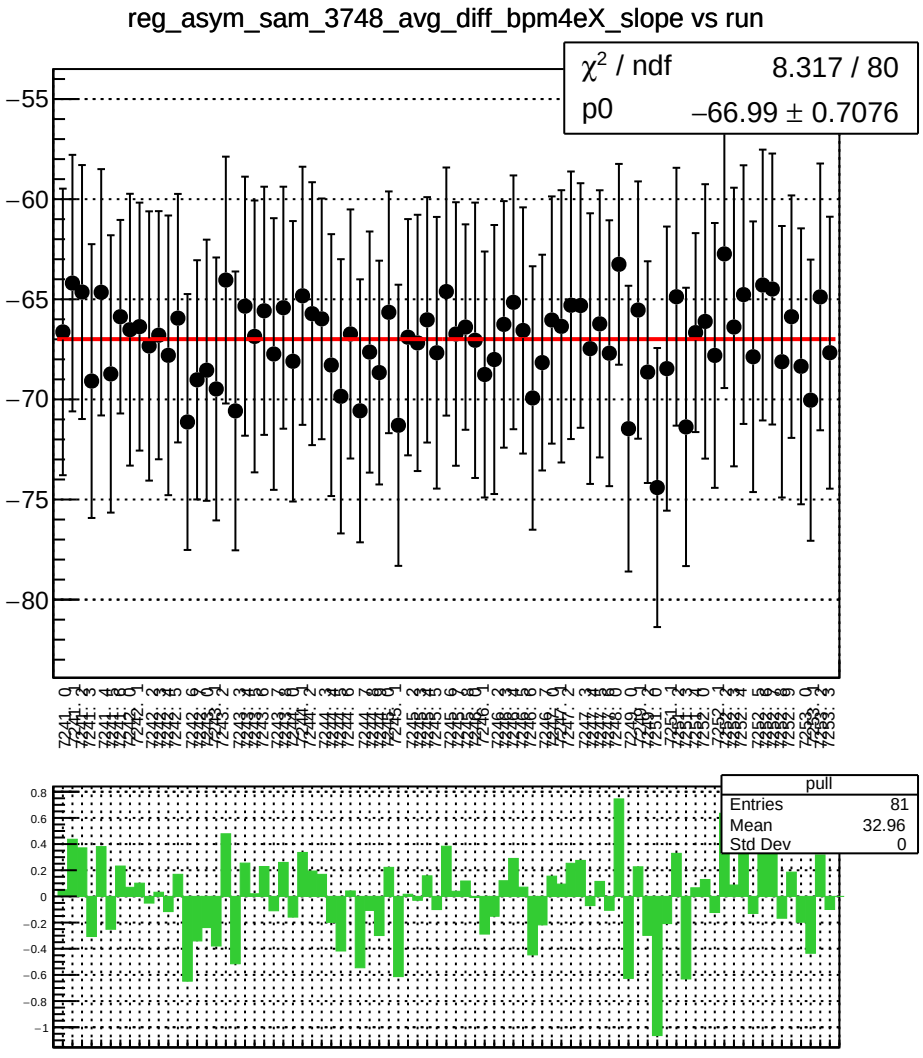

pull1D
Entries 81
Mean −0.0001591
Std Dev 0.3023

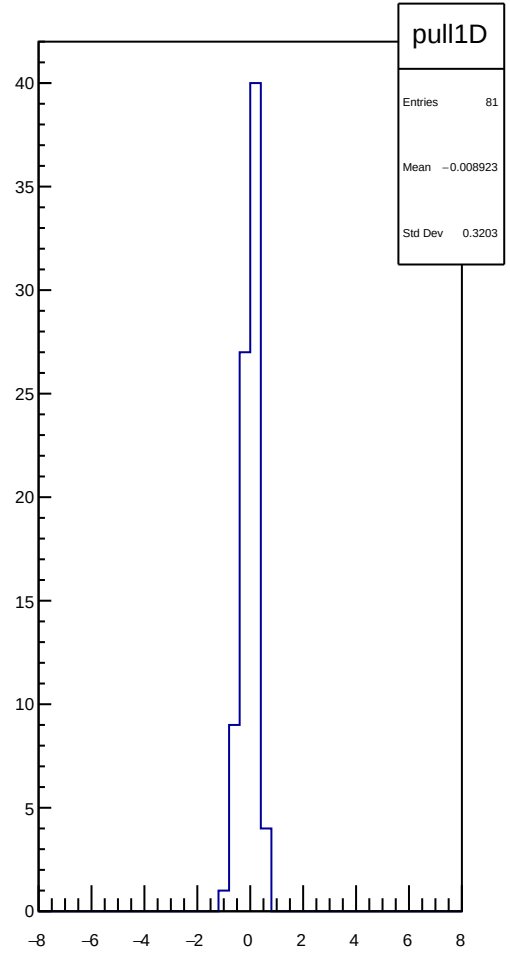

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 18.28 / 80
p0 −0.005175 ± 0.02295
pull
Entries 81
Mean −333.9
Std Dev 0
pull1D
Entries 81
Mean −0.02118
Std Dev 0.4745

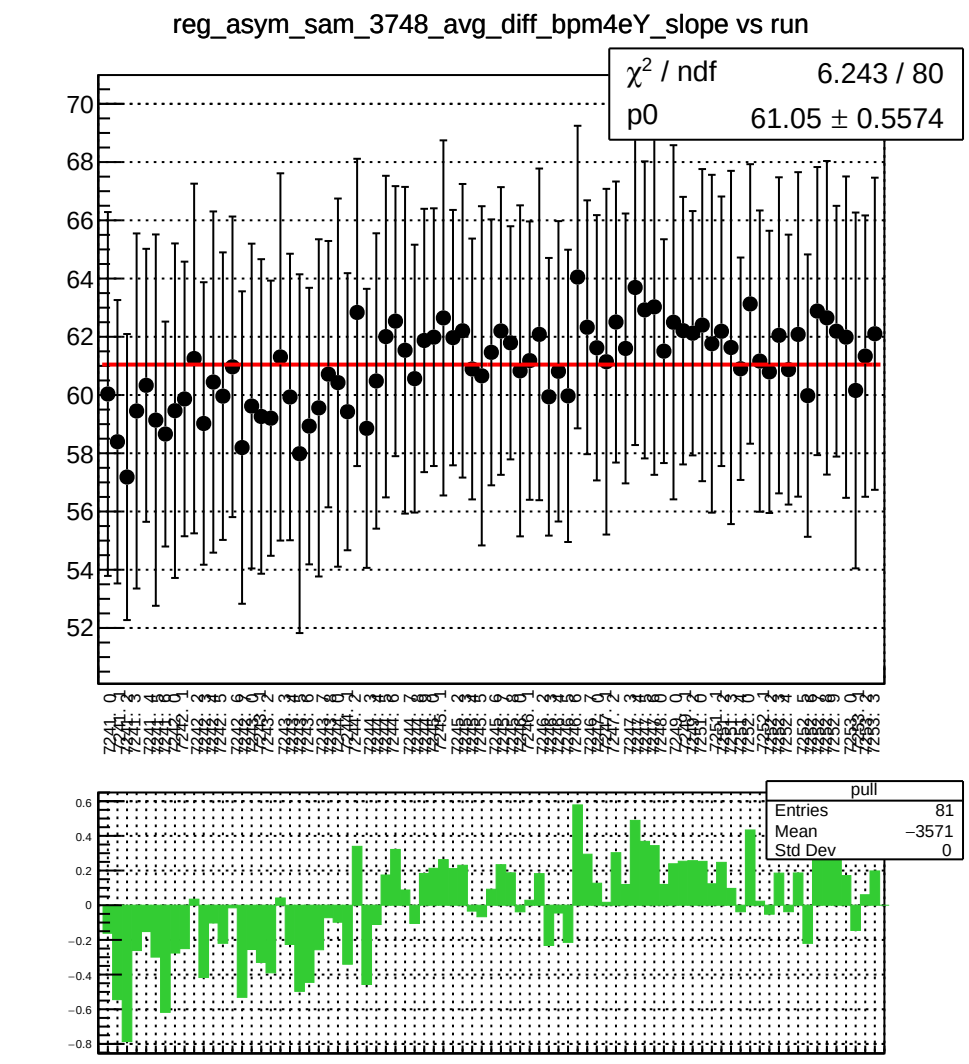

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 4.692 / 80
p0 −6.295 ± 0.6814
pull
Entries 81
Mean −99.31
Std Dev 0
pull1D
Entries 81
Mean 0.002262
Std Dev 0.2407

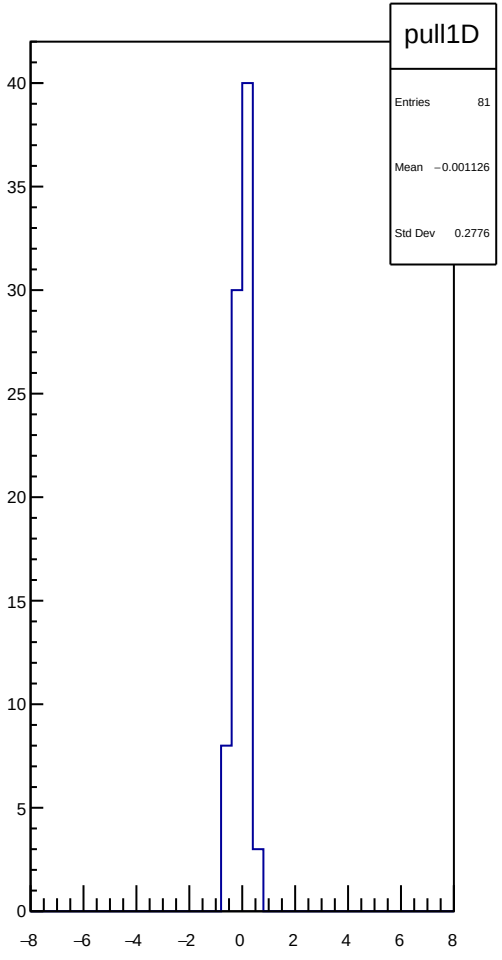

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.127 / 80
p0 −4.403 ± 0.5181
pull
Entries 81
Mean −300.9
Std Dev 0

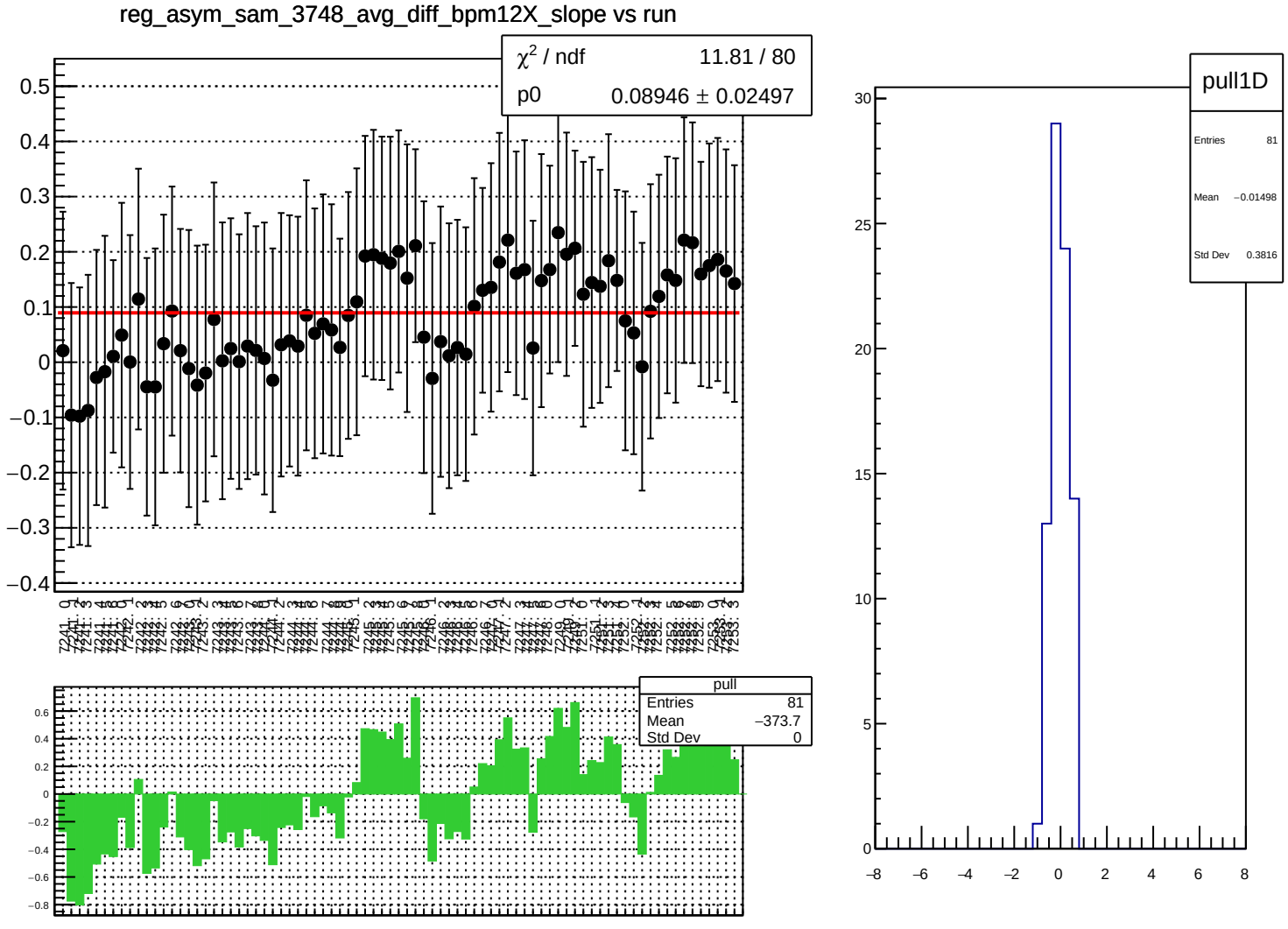

pull1D
Entries 81
Mean 0.009499
Std Dev 0.2255

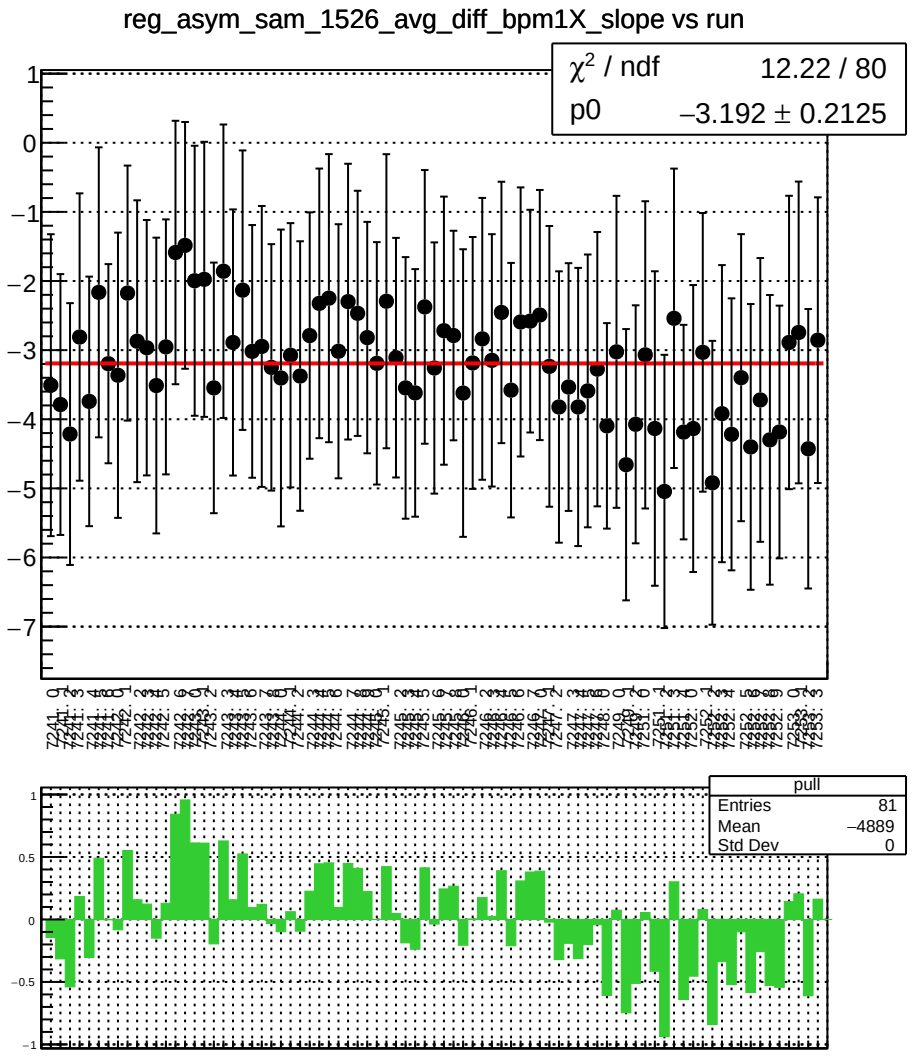

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.317 / 80
p0 −66.99 ± 0.7076
pull
Entries 81
Mean 32.96
Std Dev 0

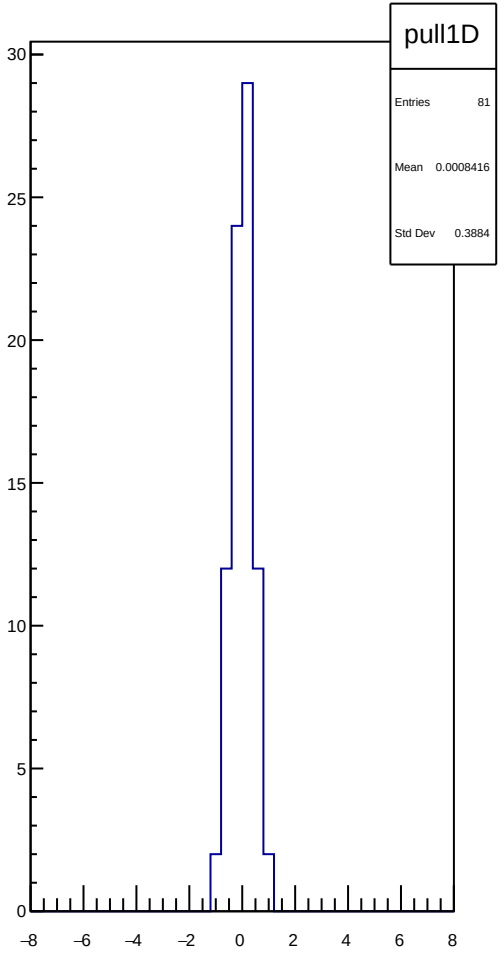

pull1D
Entries 81
Mean −0.008923
Std Dev 0.3203

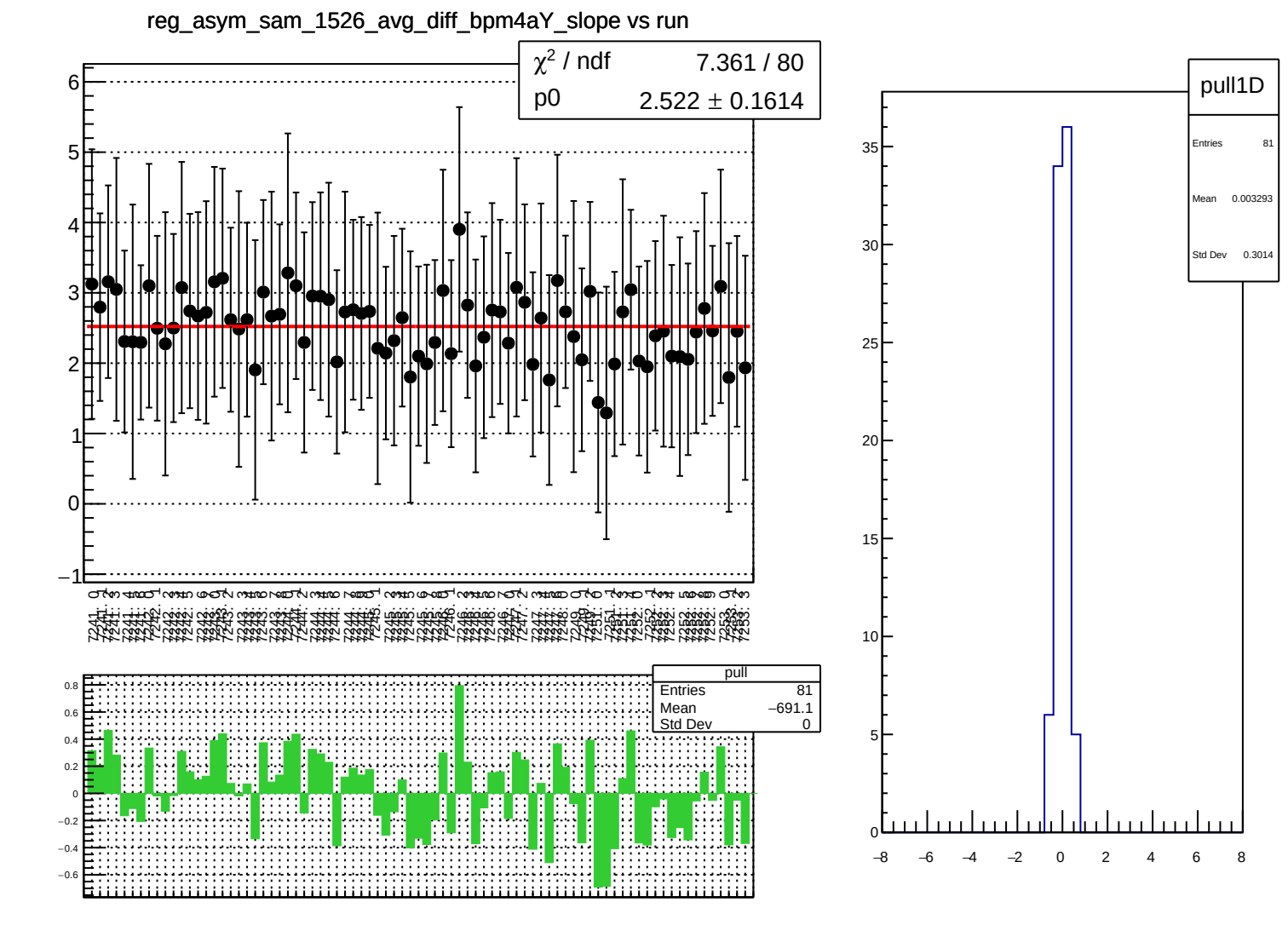

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.243 / 80
p0 61.05 ± 0.5574
pull
Entries 81
Mean −3571
Std Dev 0

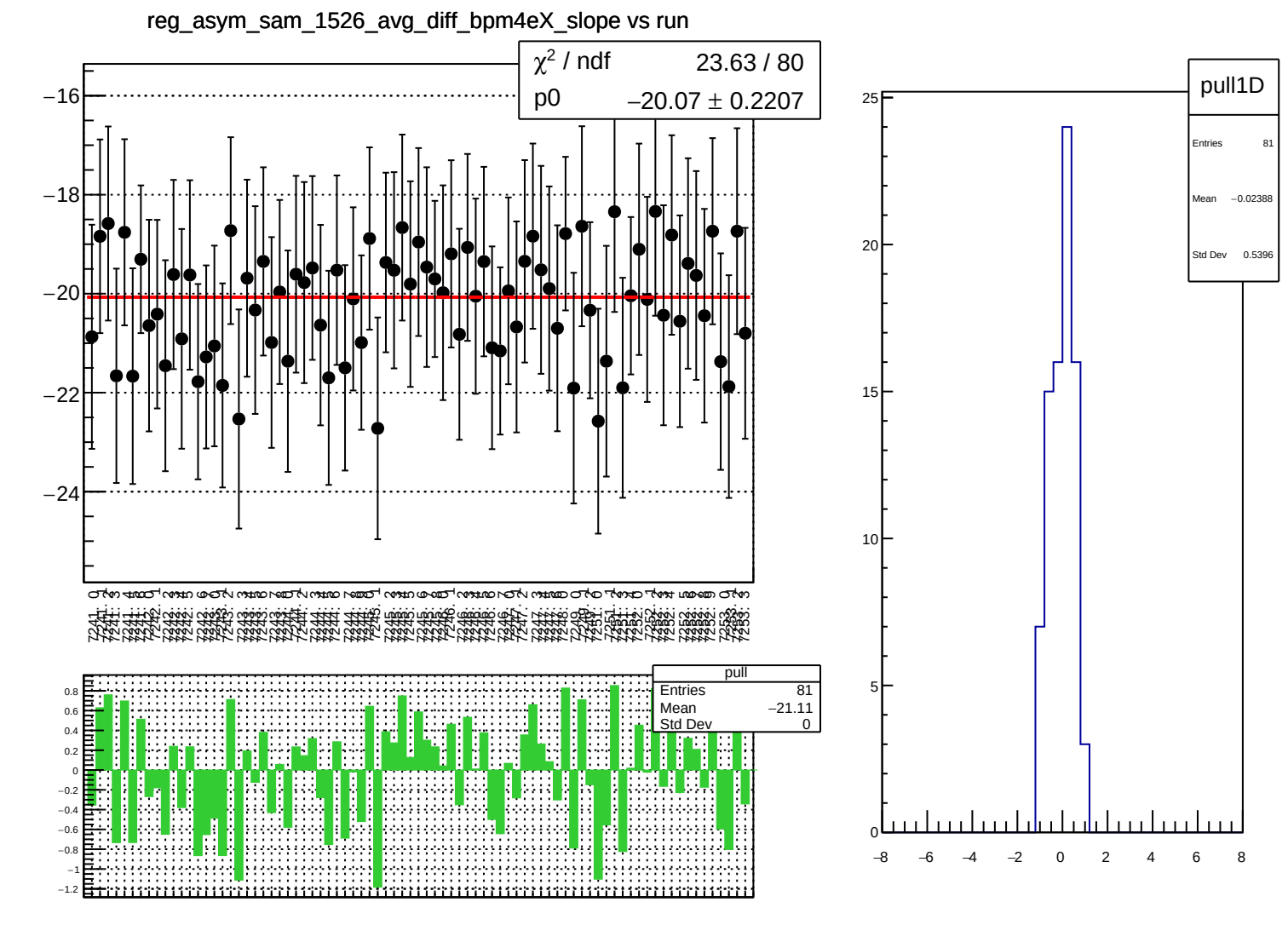

pull1D
Entries 81
Mean −0.001126
Std Dev 0.2776

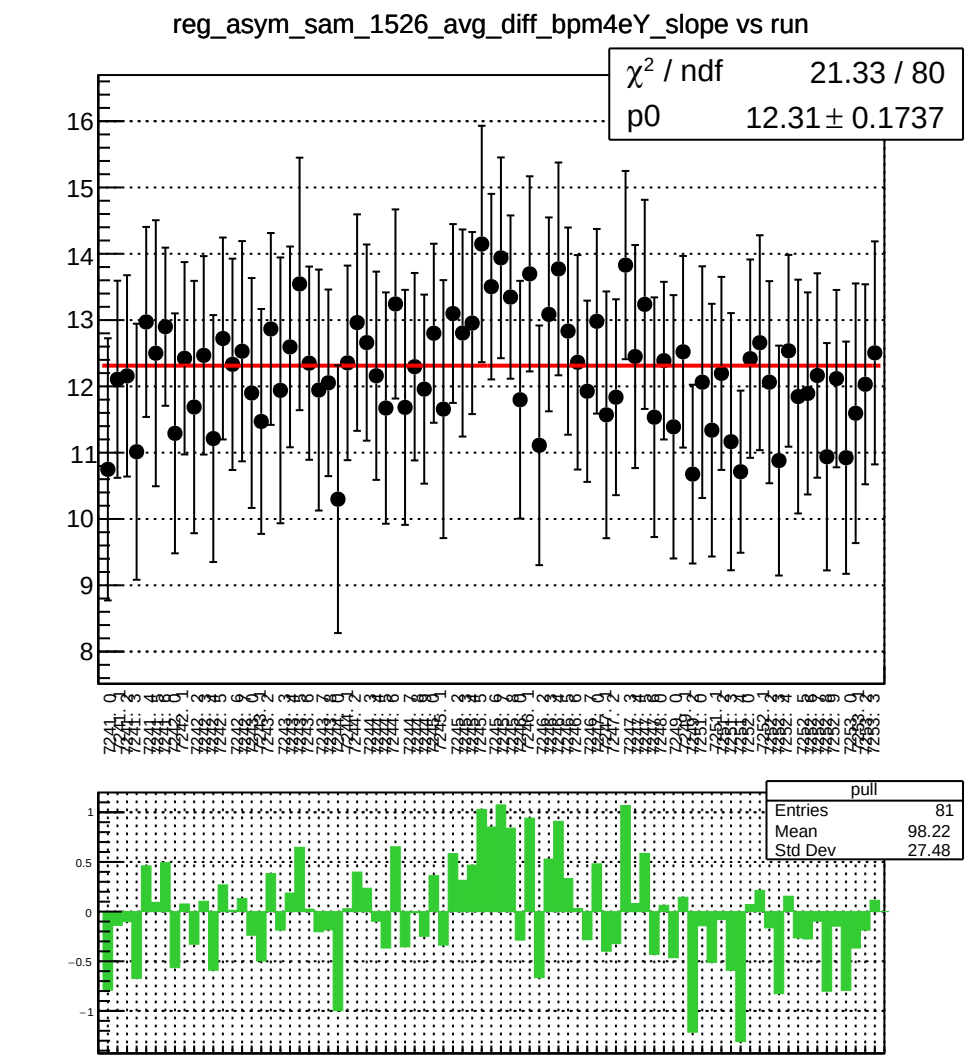

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 11.81 / 80
p0 0.08946 ± 0.02497
pull
Entries 81
Mean −373.7
Std Dev 0
pull1D
Entries 81
Mean −0.01498
Std Dev 0.3816

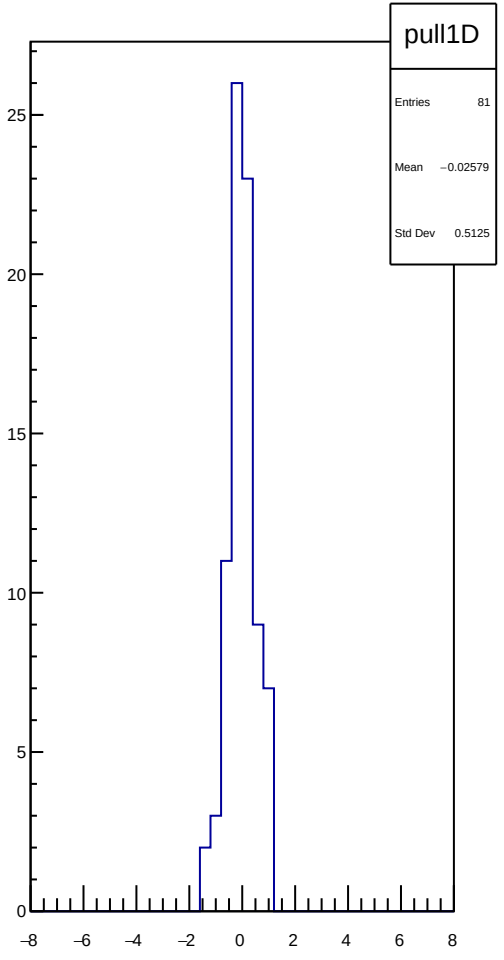

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 12.22 / 80
p0 −3.192 ± 0.2125
pull
Entries 81
Mean −4889
Std Dev 0

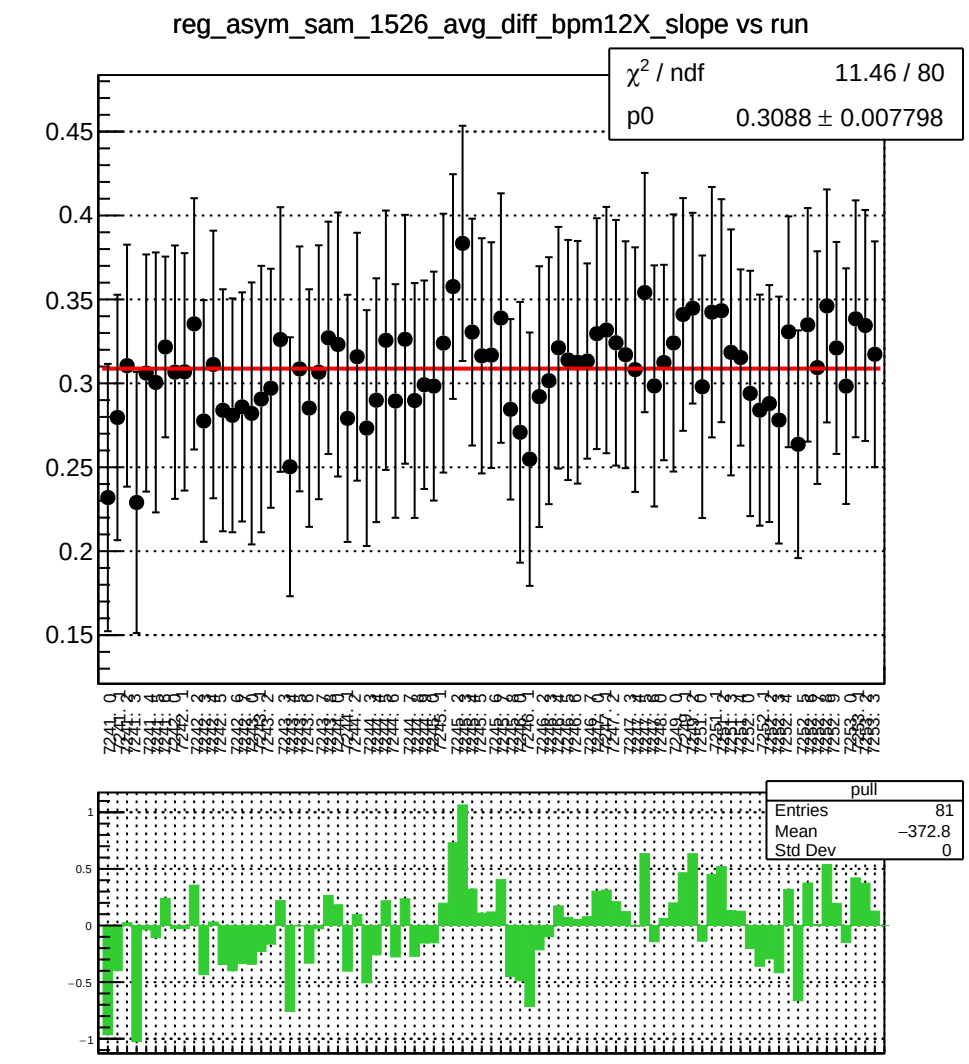

pull1D
Entries 81
Mean 0.0008416
Std Dev 0.3884

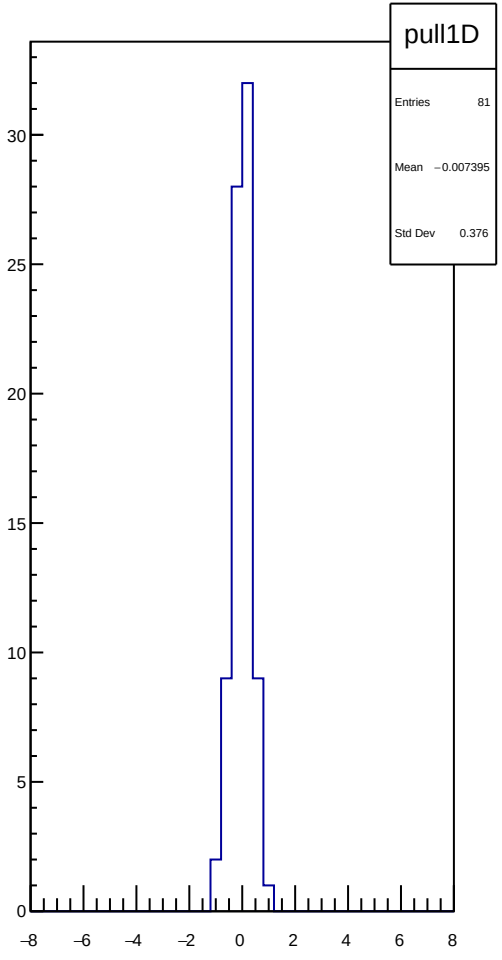

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.361 / 80
p0 2.522 ± 0.1614
pull
Entries 81
Mean −691.1
Std Dev 0
pull1D
Entries 81
Mean 0.003293
Std Dev 0.3014

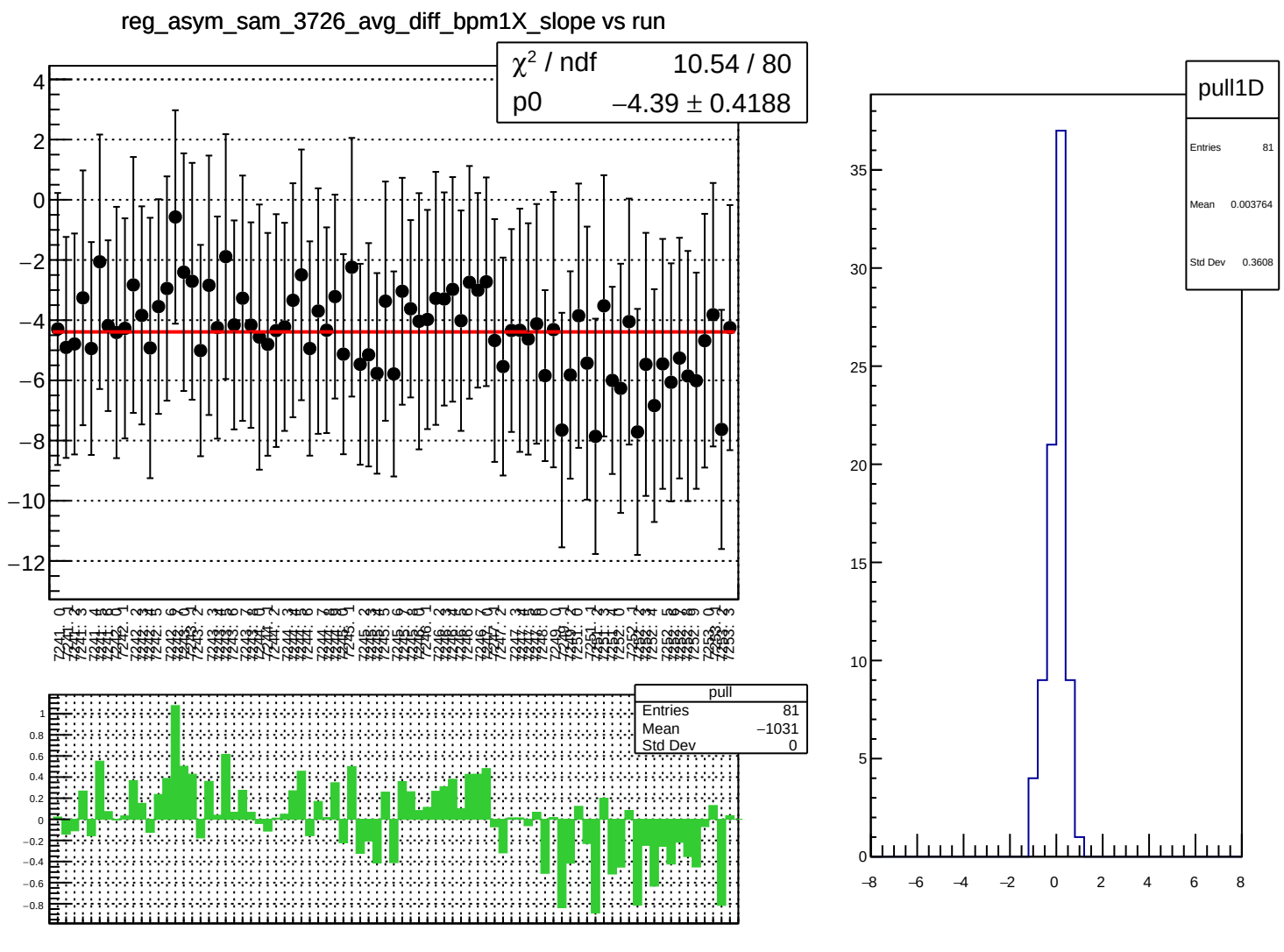

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 23.63 / 80
p0 −20.07 ± 0.2207
pull
Entries 81
Mean −21.11
Std Dev 0
pull1D
Entries 81
Mean −0.02388
Std Dev 0.5396

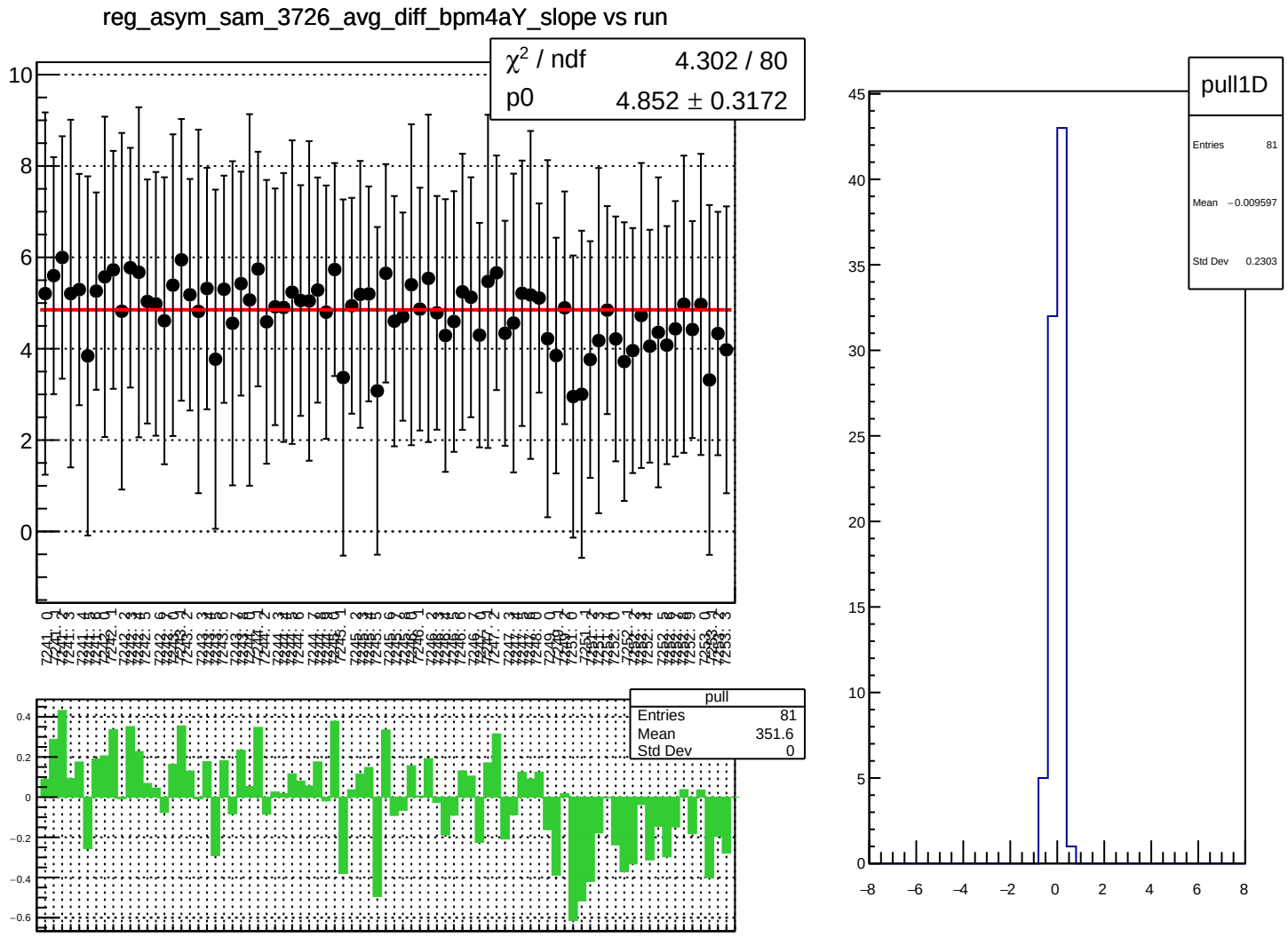

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 21.33 / 80
p0 12.31 ± 0.1737
pull
Entries 81
Mean 98.22
Std Dev 27.48

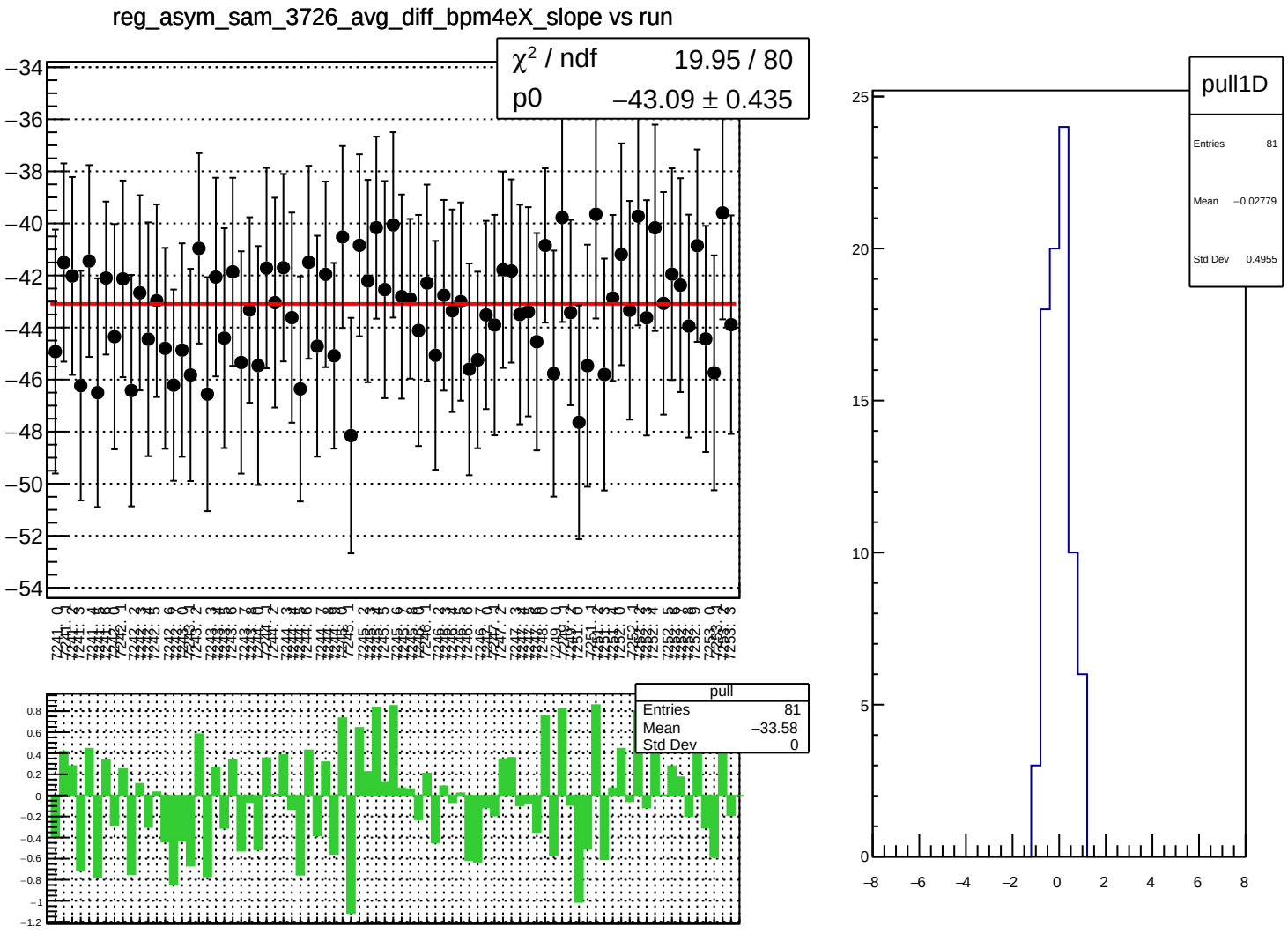

pull1D
Entries 81
Mean −0.02579
Std Dev 0.5125

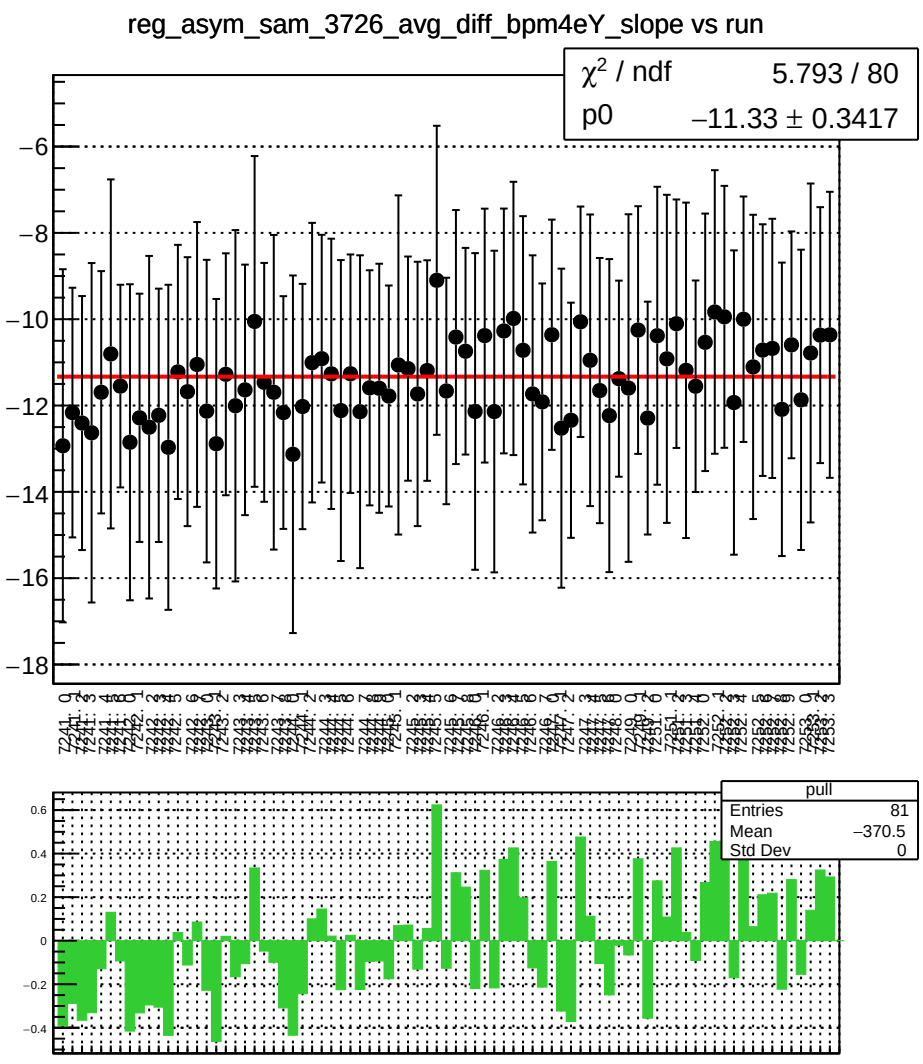

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 11.46 / 80
p0 0.3088 ± 0.007798
pull
Entries 81
Mean −372.8
Std Dev 0

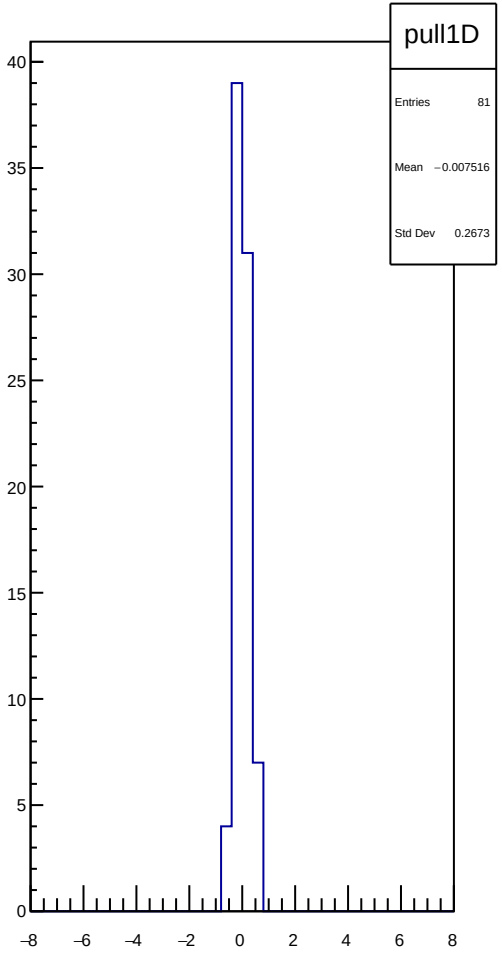

pull1D
Entries 81
Mean −0.007395
Std Dev 0.376

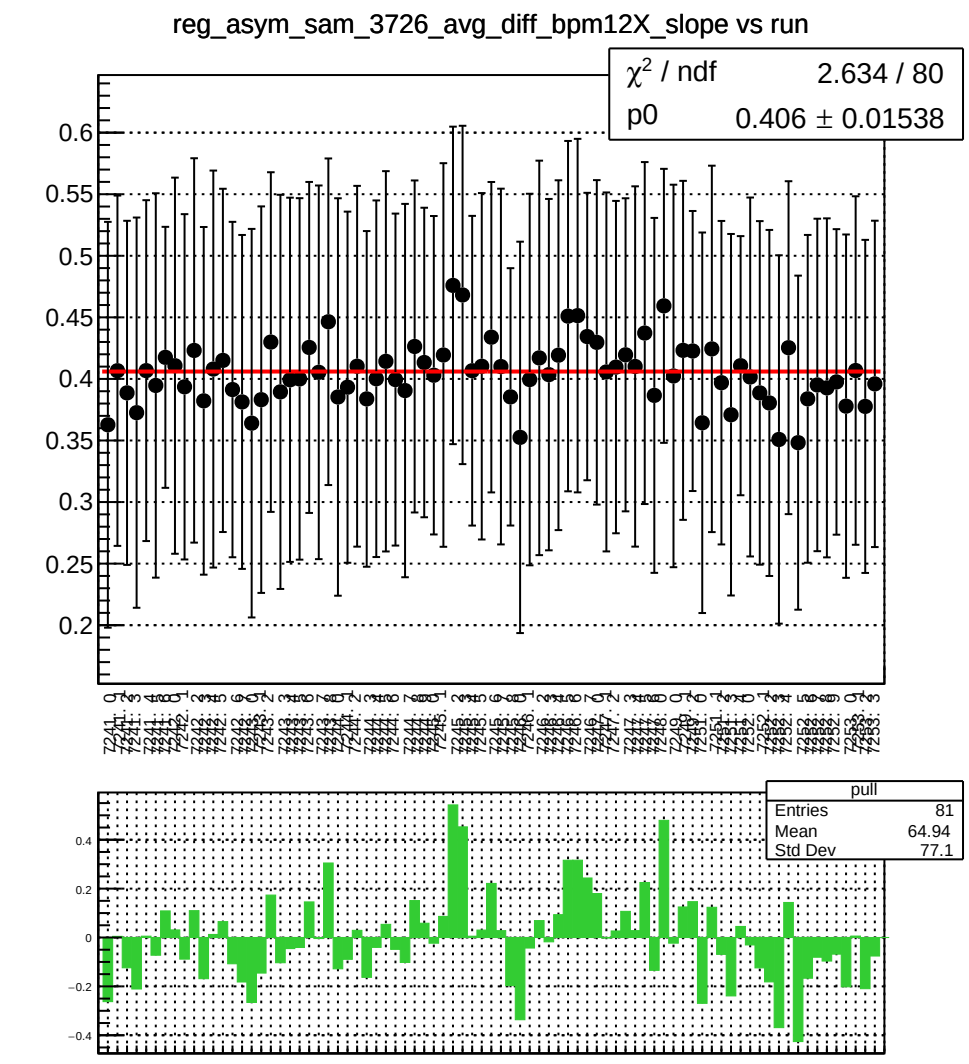

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 10.54 / 80
p0 −4.39 ± 0.4188
pull
Entries 81
Mean −1031
Std Dev 0
pull1D
Entries 81
Mean 0.003764
Std Dev 0.3608

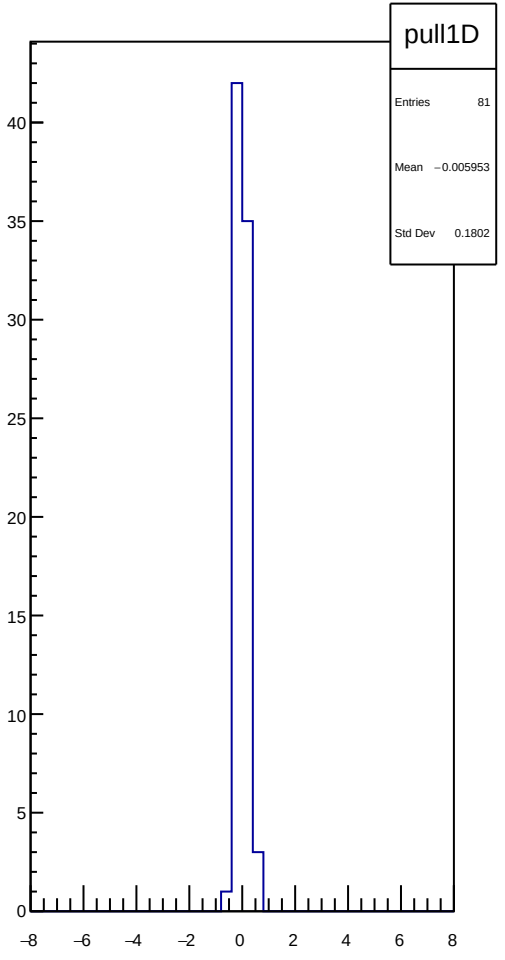

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.302 / 80
p0 4.852 ± 0.3172
pull
Entries 81
Mean 351.6
Std Dev 0
pull1D
Entries 81
Mean −0.009597
Std Dev 0.2303

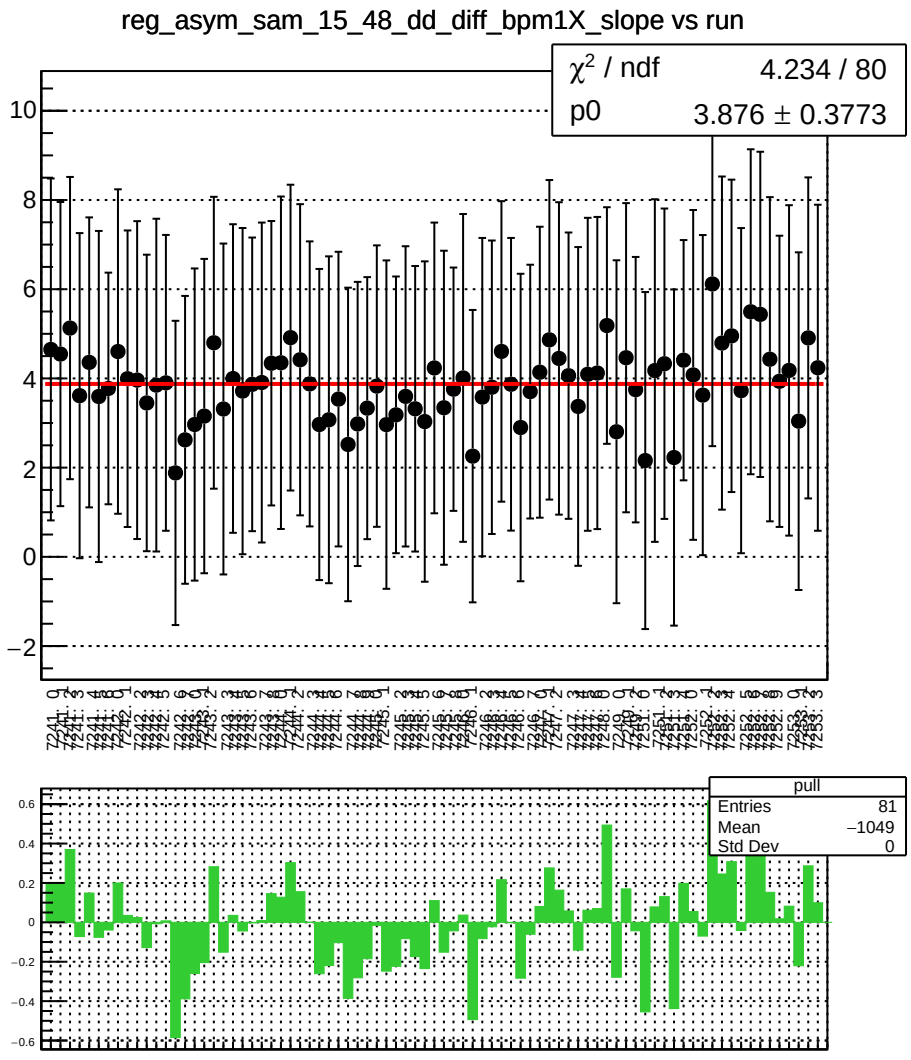

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 19.95 / 80
p0 −43.09 ± 0.435
pull
Entries 81
Mean −33.58
Std Dev 0
pull1D
Entries 81
Mean −0.02779
Std Dev 0.4955

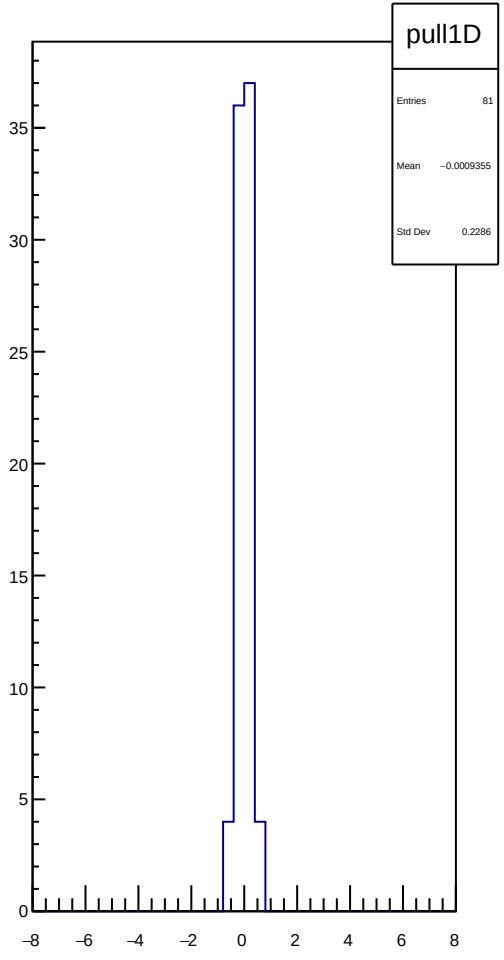

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.793 / 80
p0 −11.33 ± 0.3417
pull
Entries 81
Mean −370.5
Std Dev 0

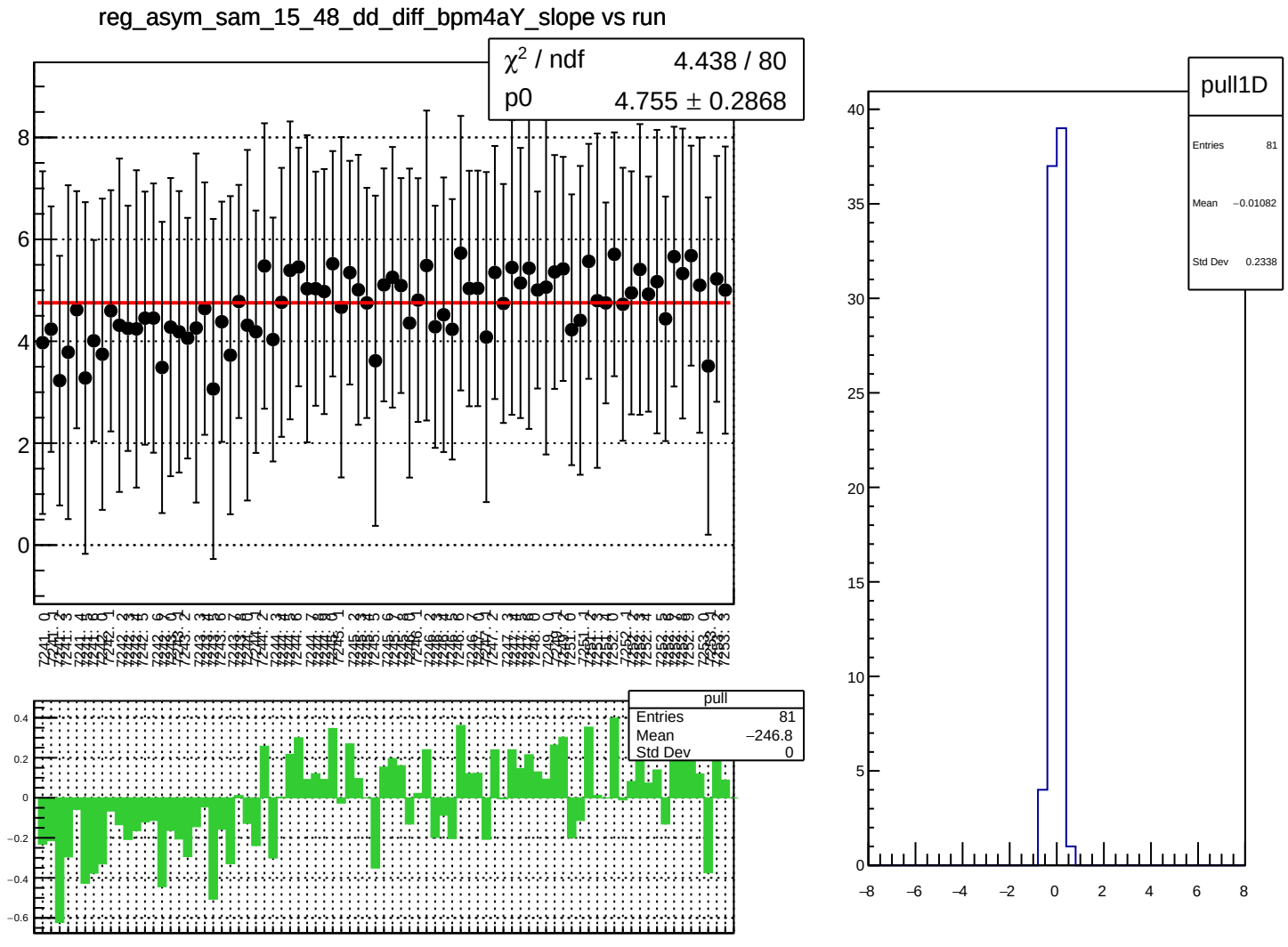

pull1D
Entries 81
Mean −0.007516
Std Dev 0.2673

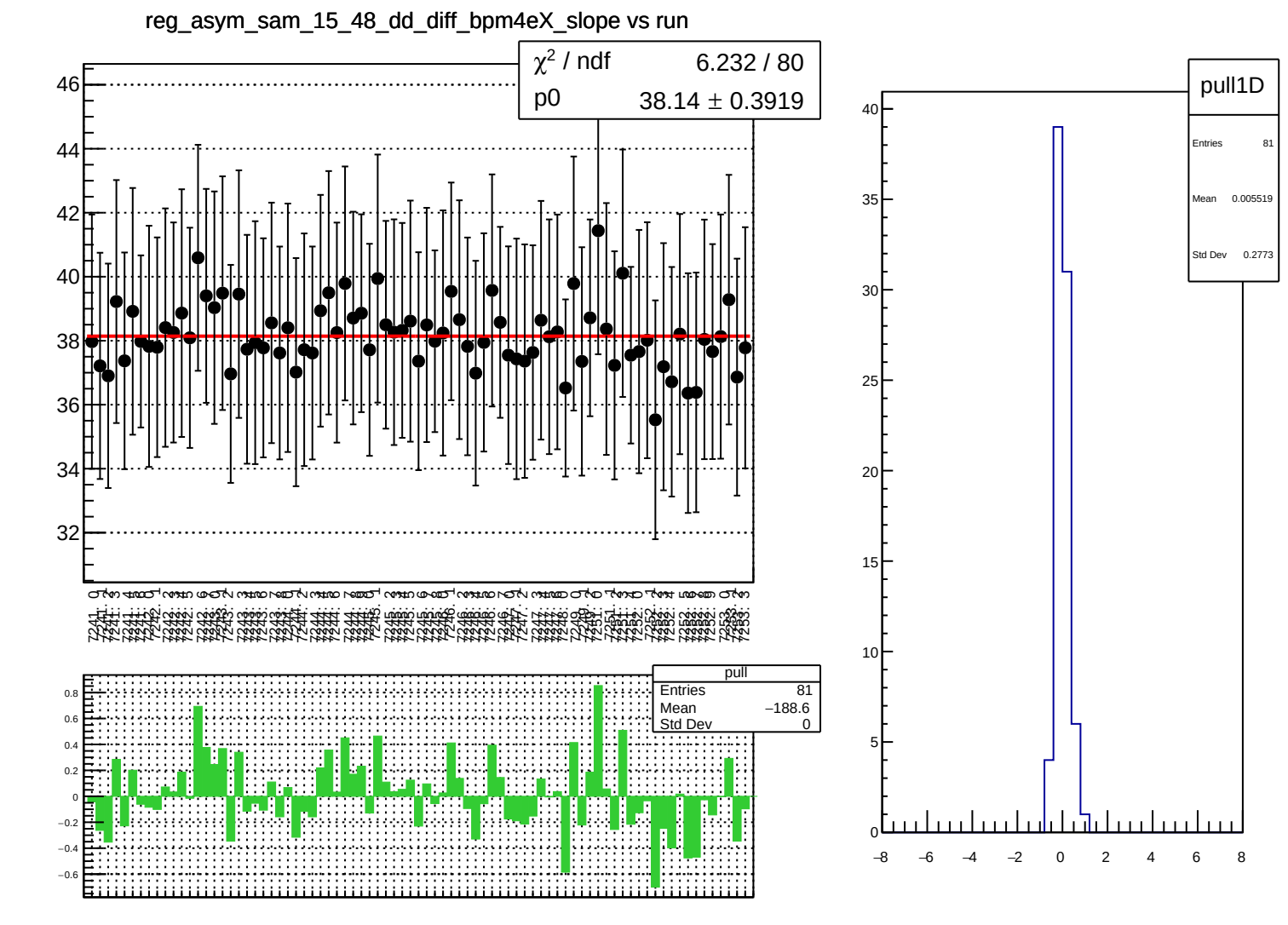

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 2.634 / 80
p0 0.406 ± 0.01538
pull
Entries 81
Mean 64.94
Std Dev 77.1

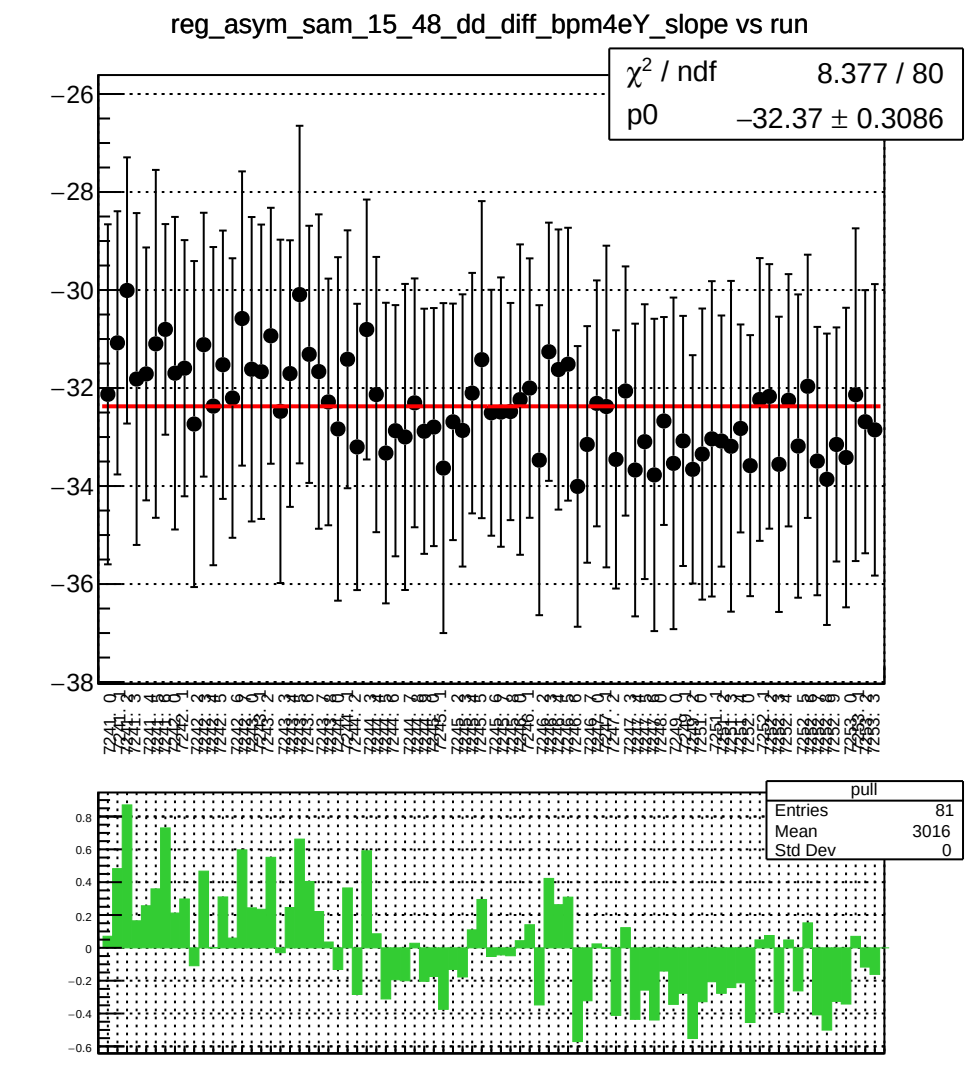

pull1D
Entries 81
Mean −0.005953
Std Dev 0.1802

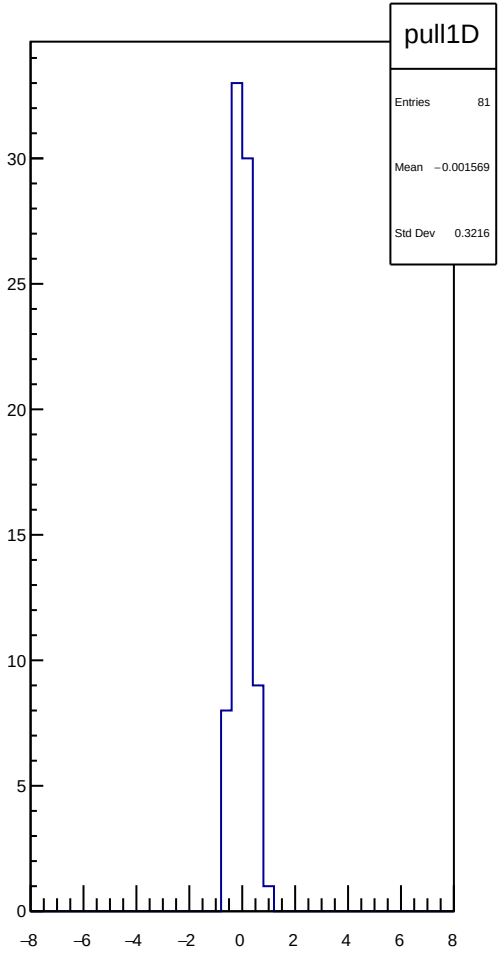

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 4.234 / 80
p0 3.876 ± 0.3773
pull
Entries 81
Mean −1049
Std Dev 0

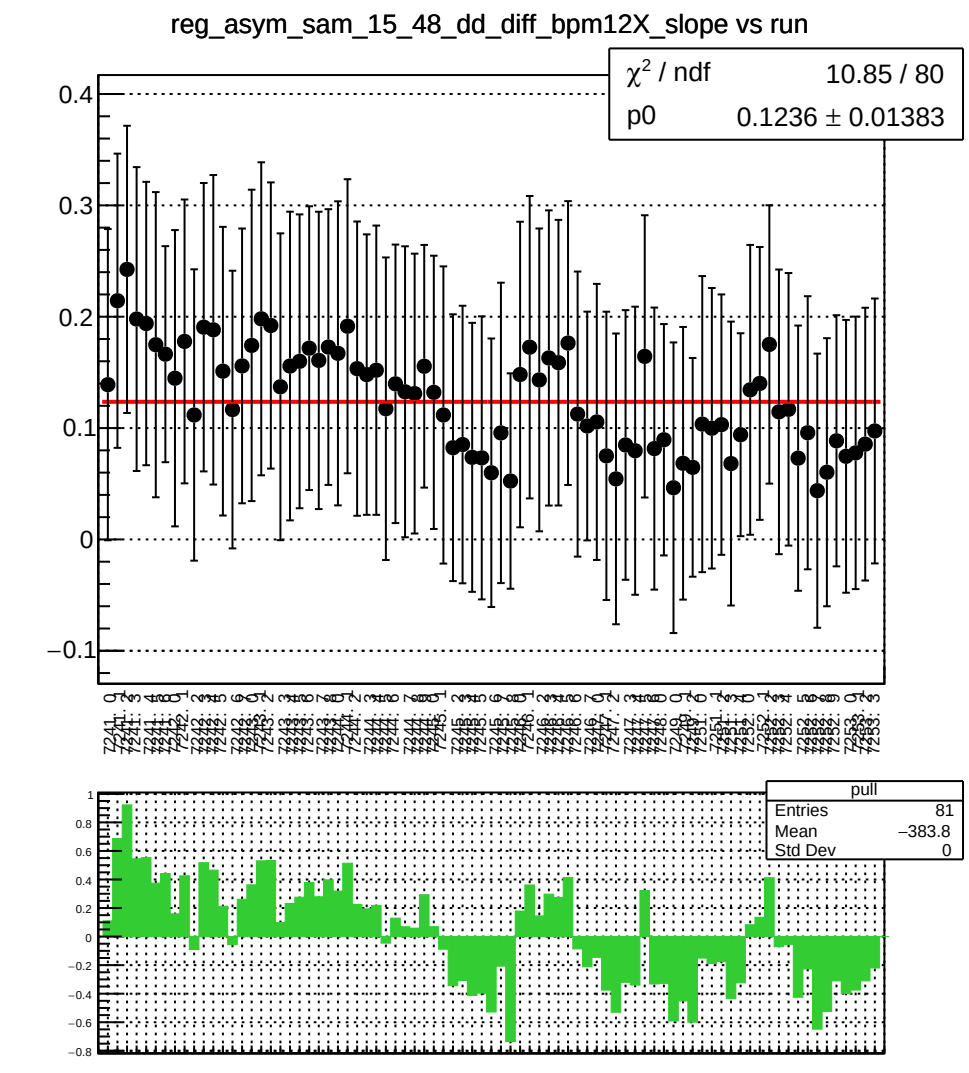

pull1D
Entries 81
Mean −0.0009355
Std Dev 0.2286

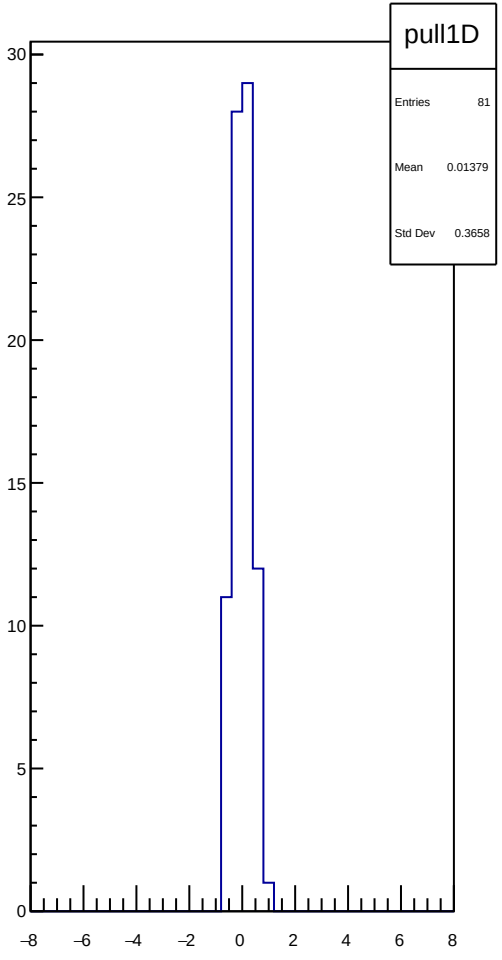

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.438 / 80
p0 4.755 ± 0.2868
pull
Entries 81
Mean −246.8
Std Dev 0
pull1D
Entries 81
Mean −0.01082
Std Dev 0.2338

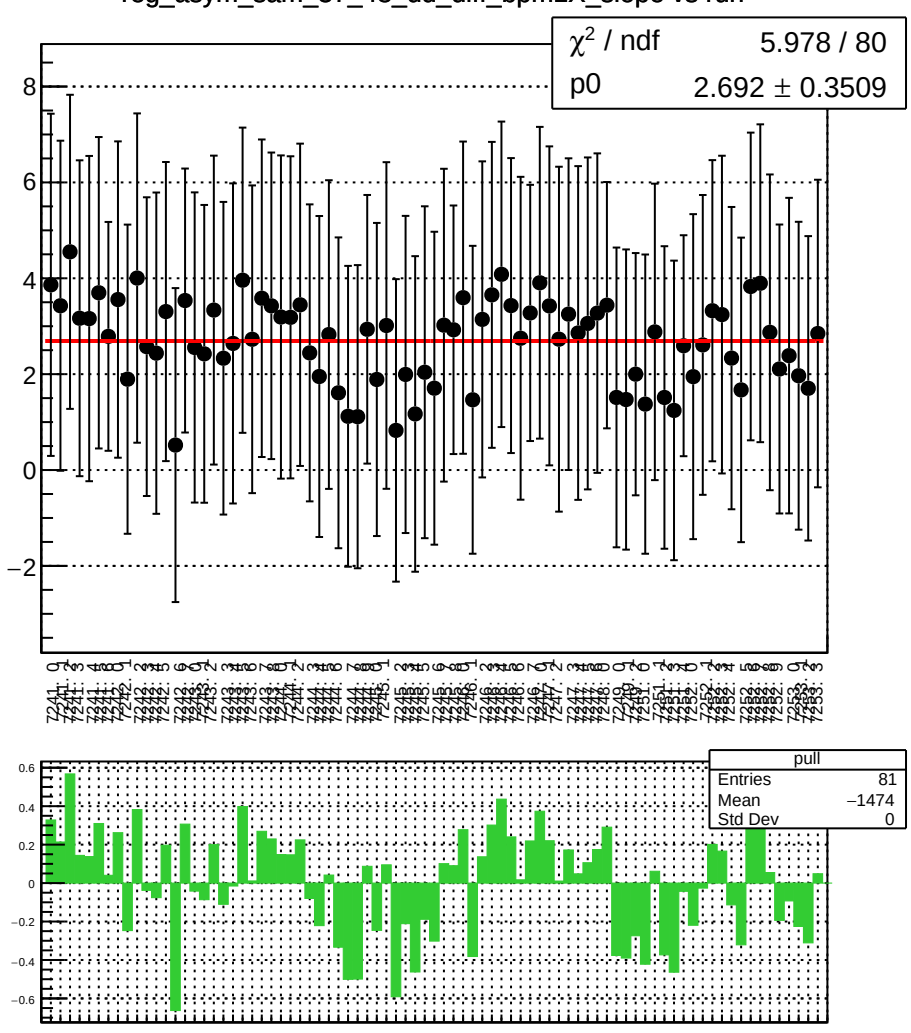

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.232 / 80
p0 38.14 ± 0.3919
pull
Entries 81
Mean −188.6
Std Dev 0
pull1D
Entries 81
Mean 0.005519
Std Dev 0.2773

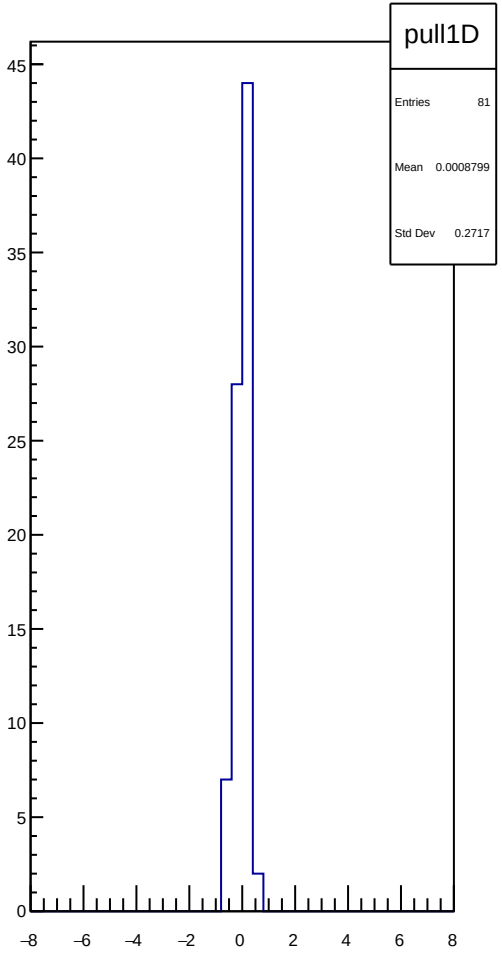

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.377 / 80
p0 −32.37 ± 0.3086
pull
Entries 81
Mean 3016
Std Dev 0

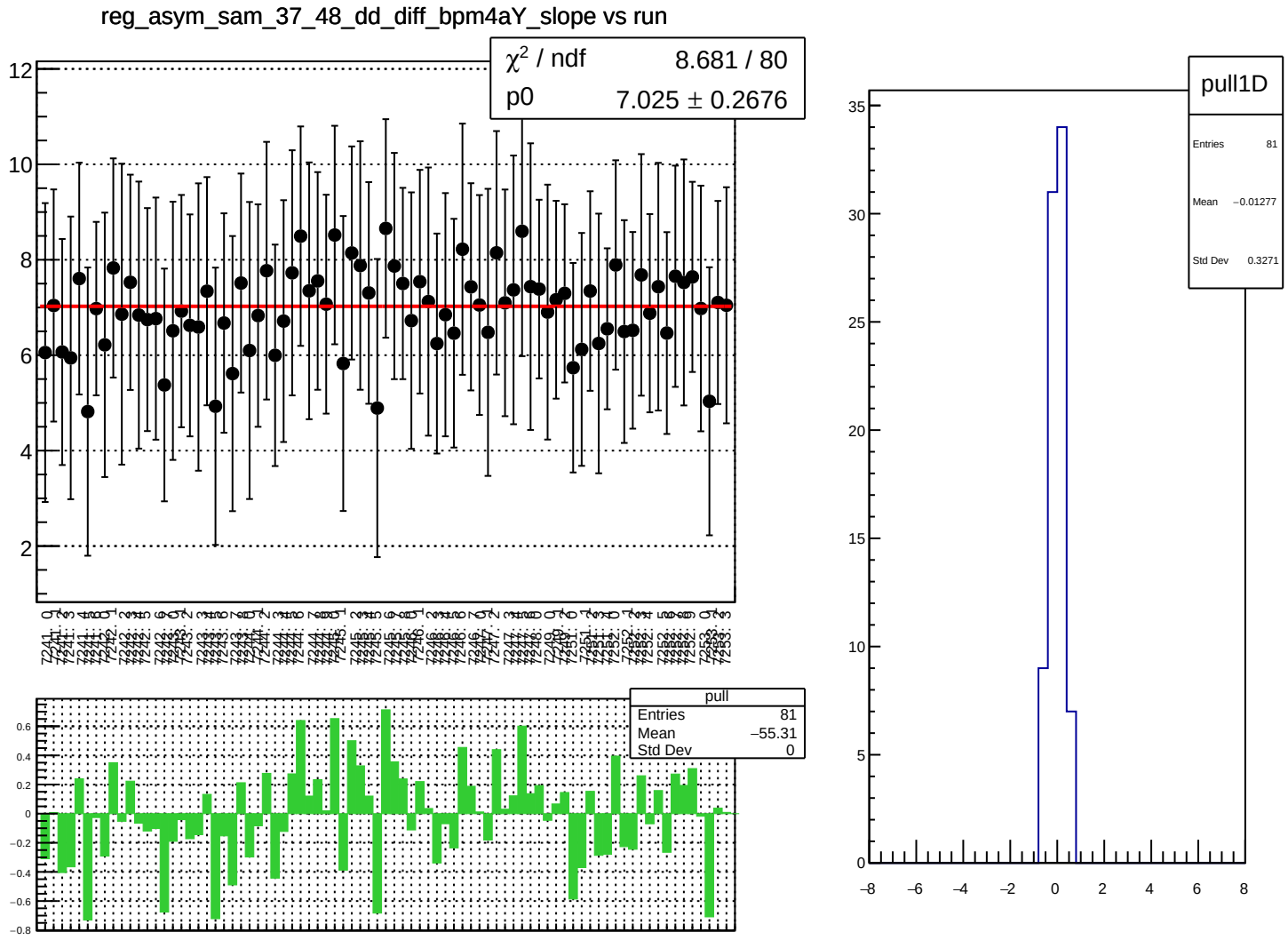

pull1D
Entries 81
Mean −0.001569
Std Dev 0.3216

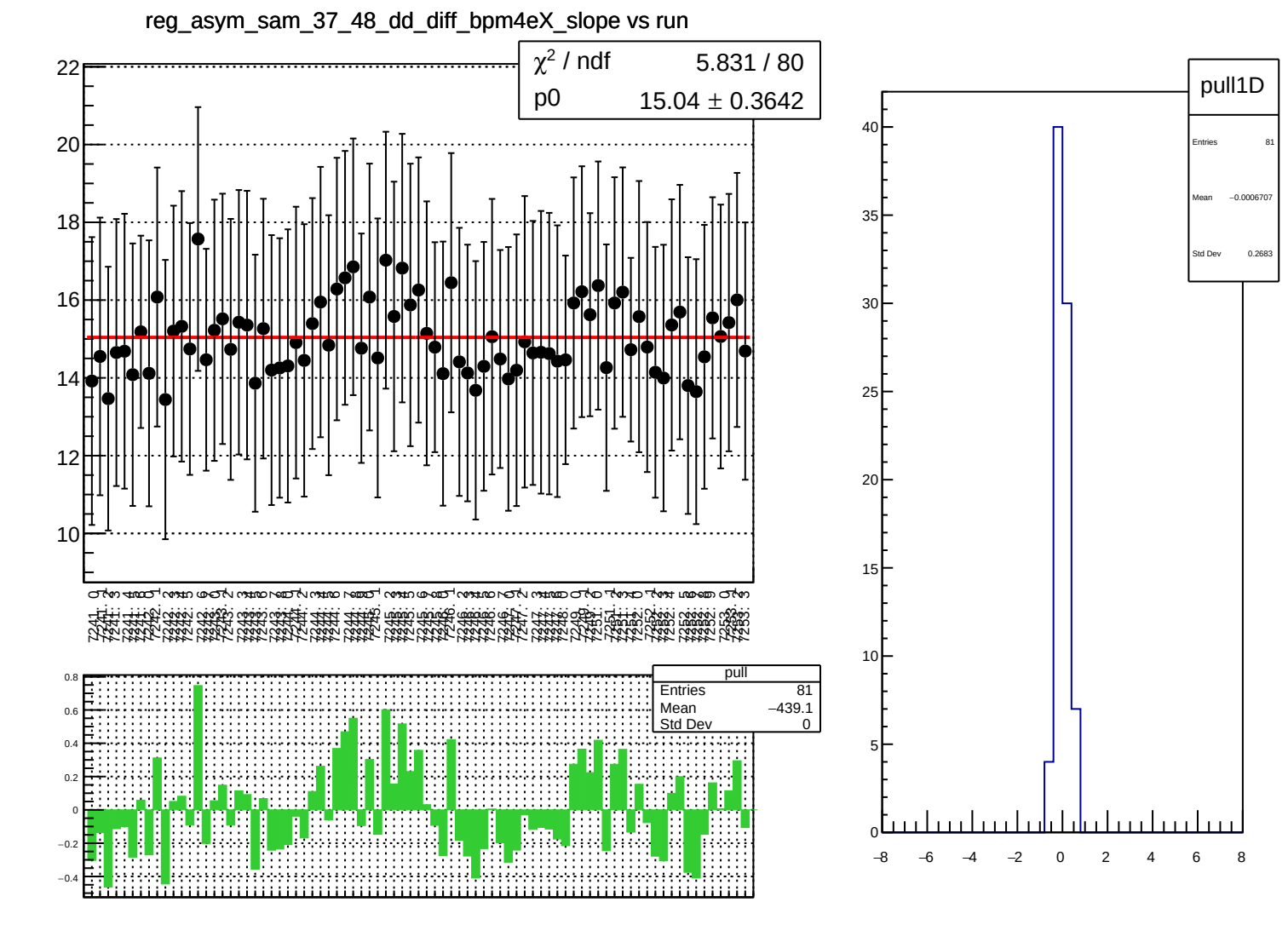

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 10.85 / 80
p0 0.1236 ± 0.01383
pull
Entries 81
Mean −383.8
Std Dev 0

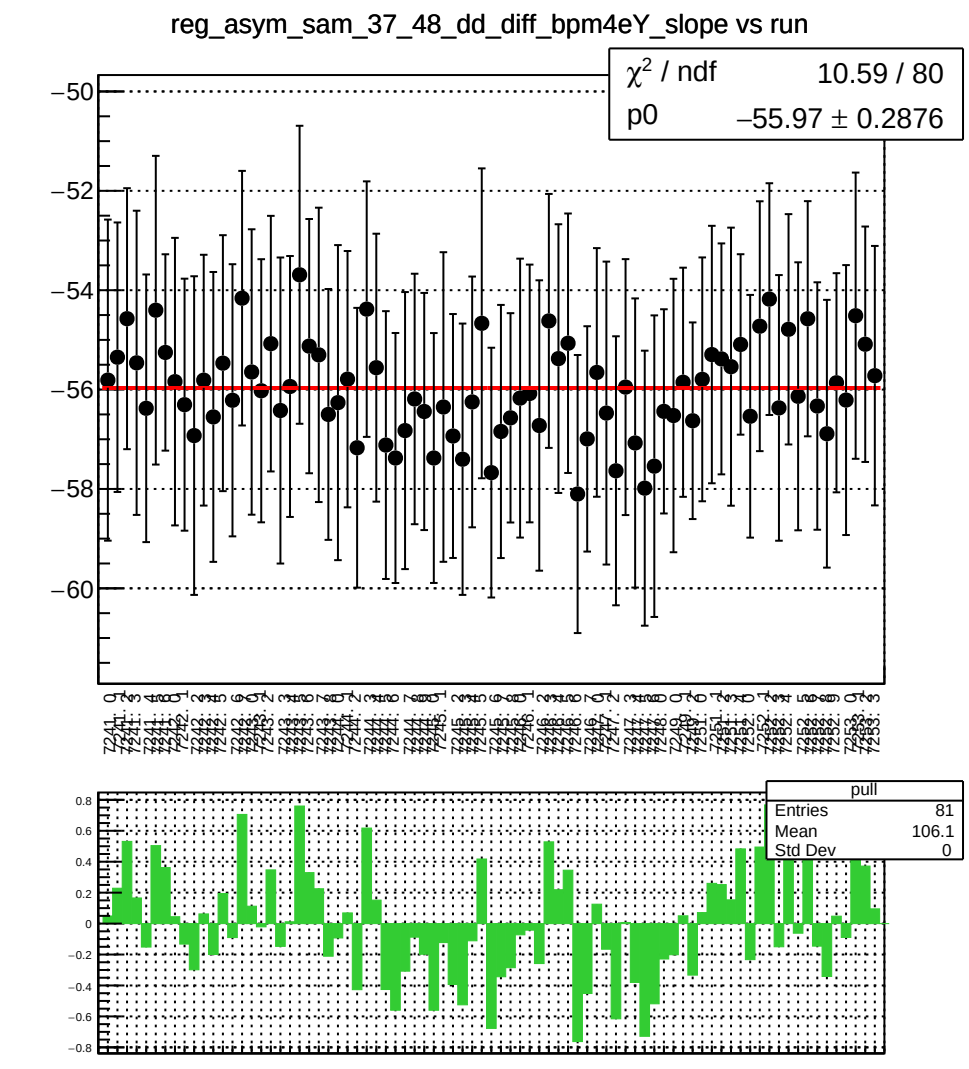

pull1D
Entries 81
Mean 0.01379
Std Dev 0.3658

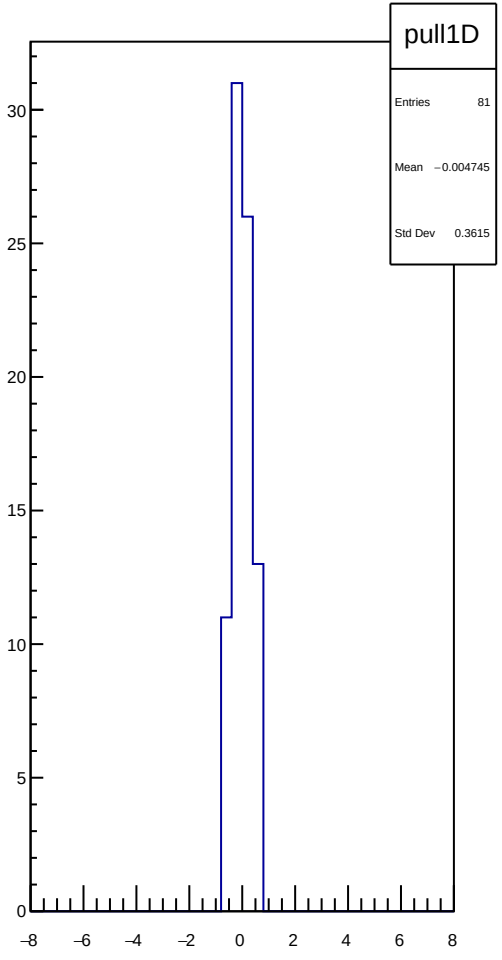

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 5.978 / 80
p0 2.692 ± 0.3509
pull
Entries 81
Mean −1474
Std Dev 0

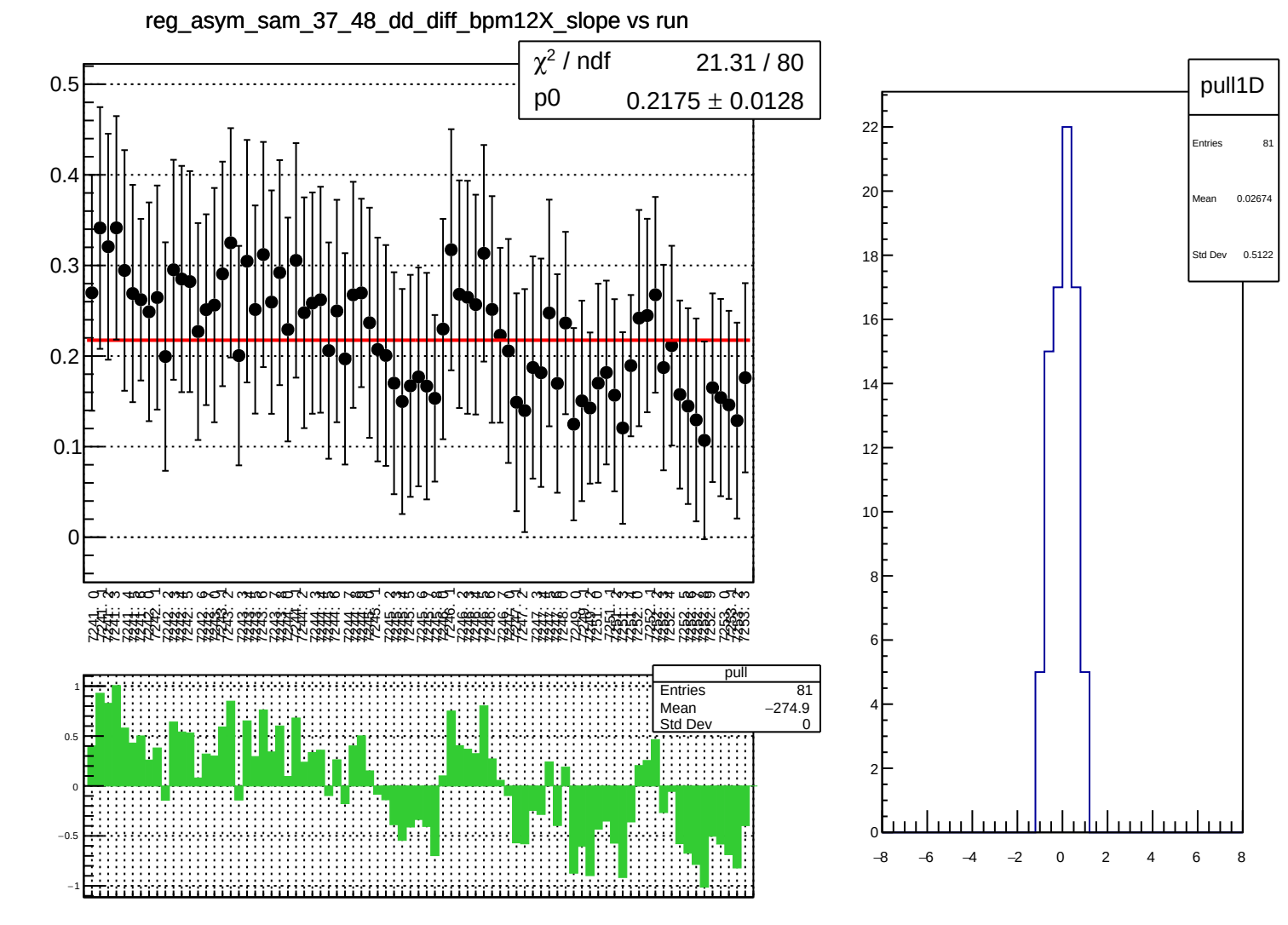

pull1D
Entries 81
Mean 0.0008799
Std Dev 0.2717

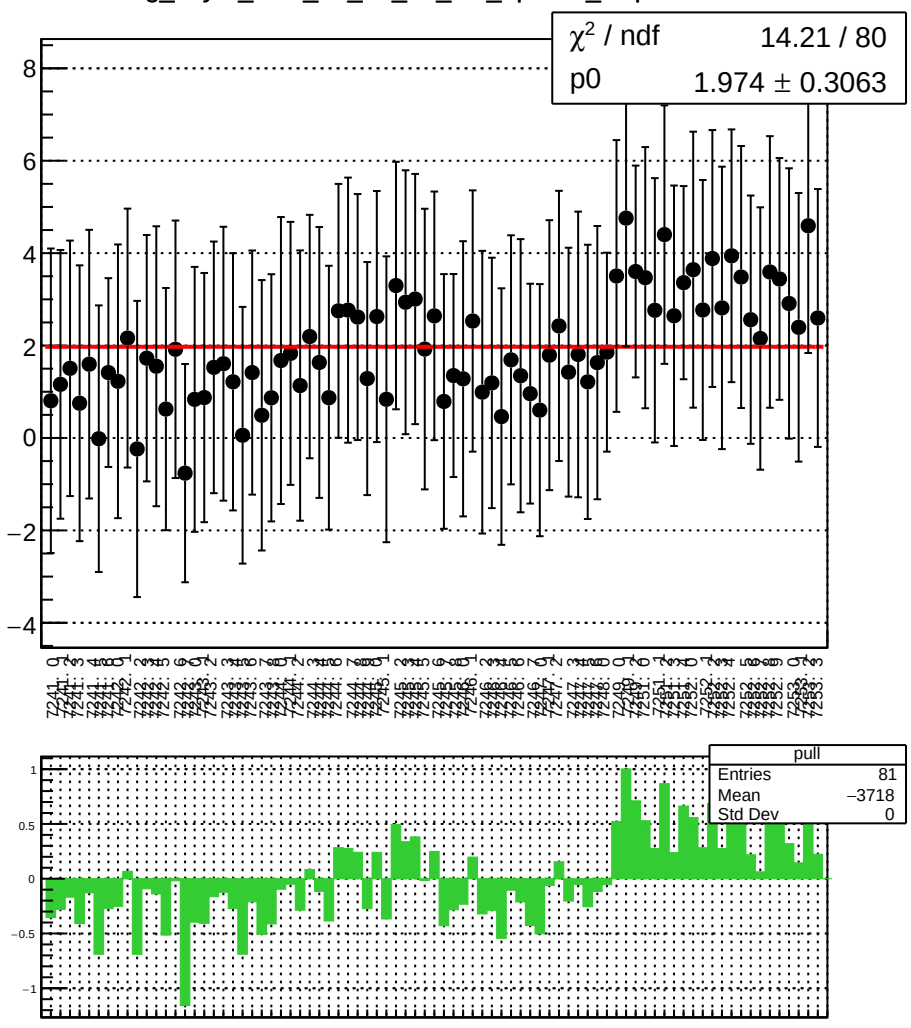

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.681 / 80
p0 7.025 ± 0.2676
pull
Entries 81
Mean −55.31
Std Dev 0
pull1D
Entries 81
Mean −0.01277
Std Dev 0.3271

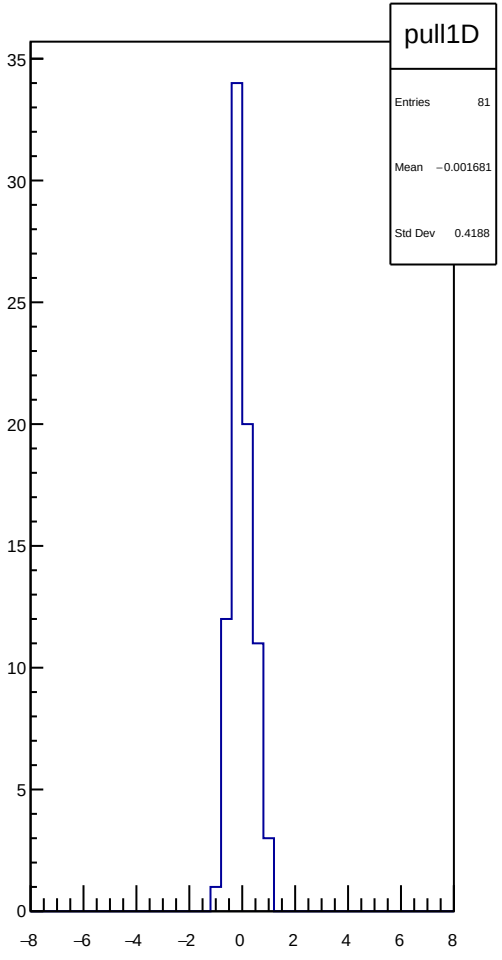

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.831 / 80
p0 15.04 ± 0.3642
pull
Entries 81
Mean −439.1
Std Dev 0
pull1D
Entries 81
Mean −0.0006707
Std Dev 0.2683

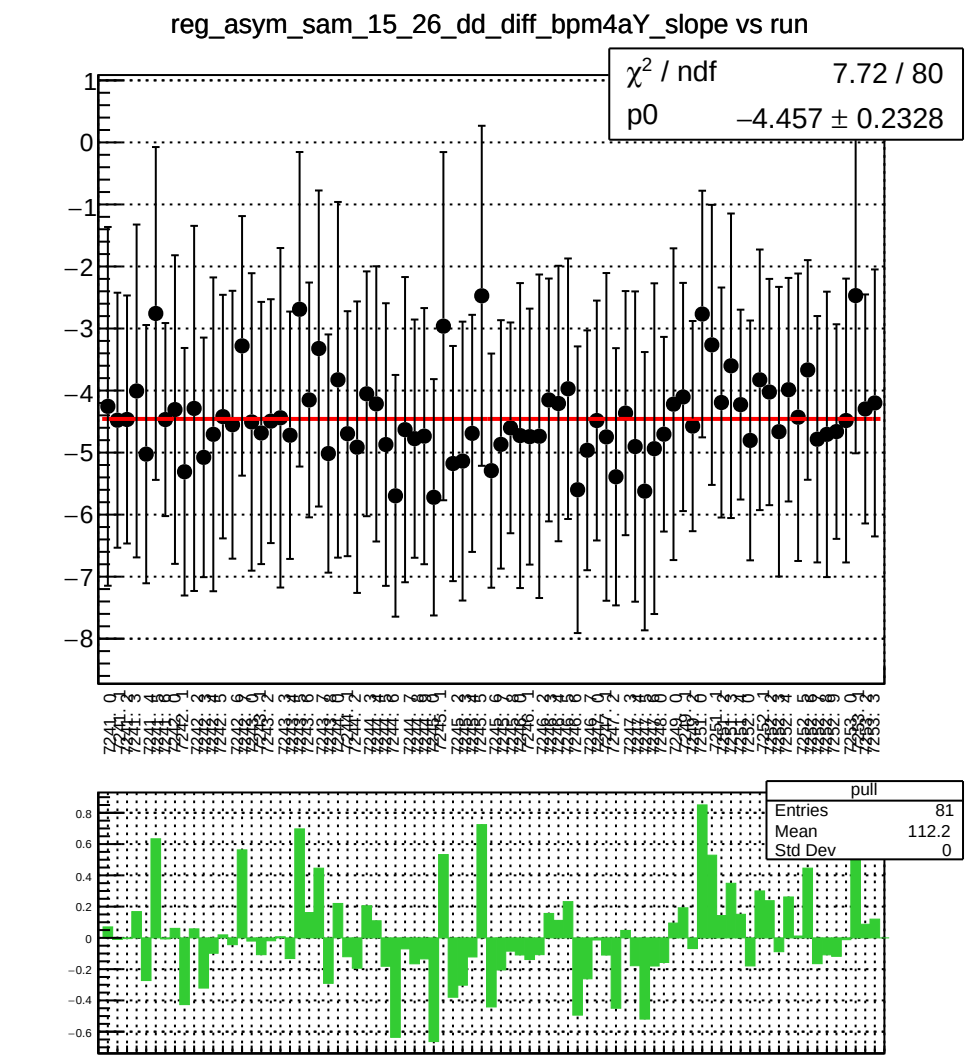

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.59 / 80
p0 −55.97 ± 0.2876
pull
Entries 81
Mean 106.1
Std Dev 0

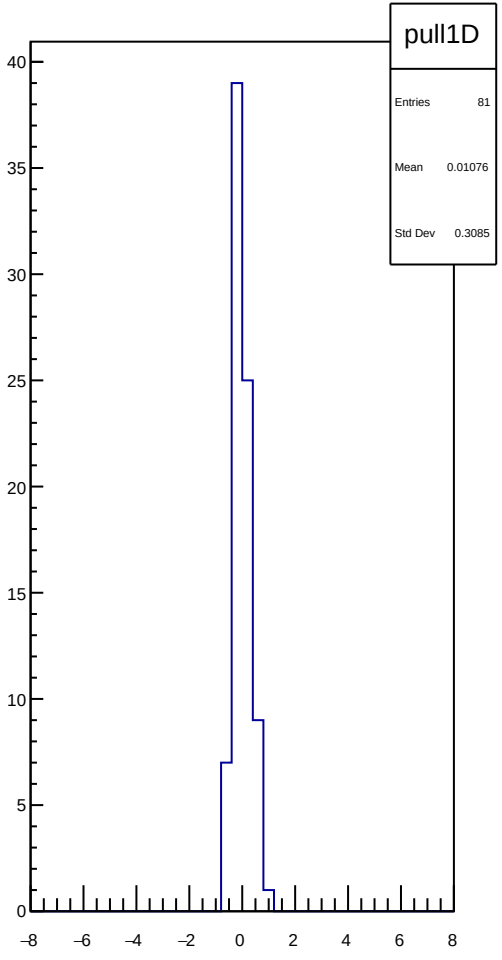

pull1D
Entries 81
Mean −0.004745
Std Dev 0.3615

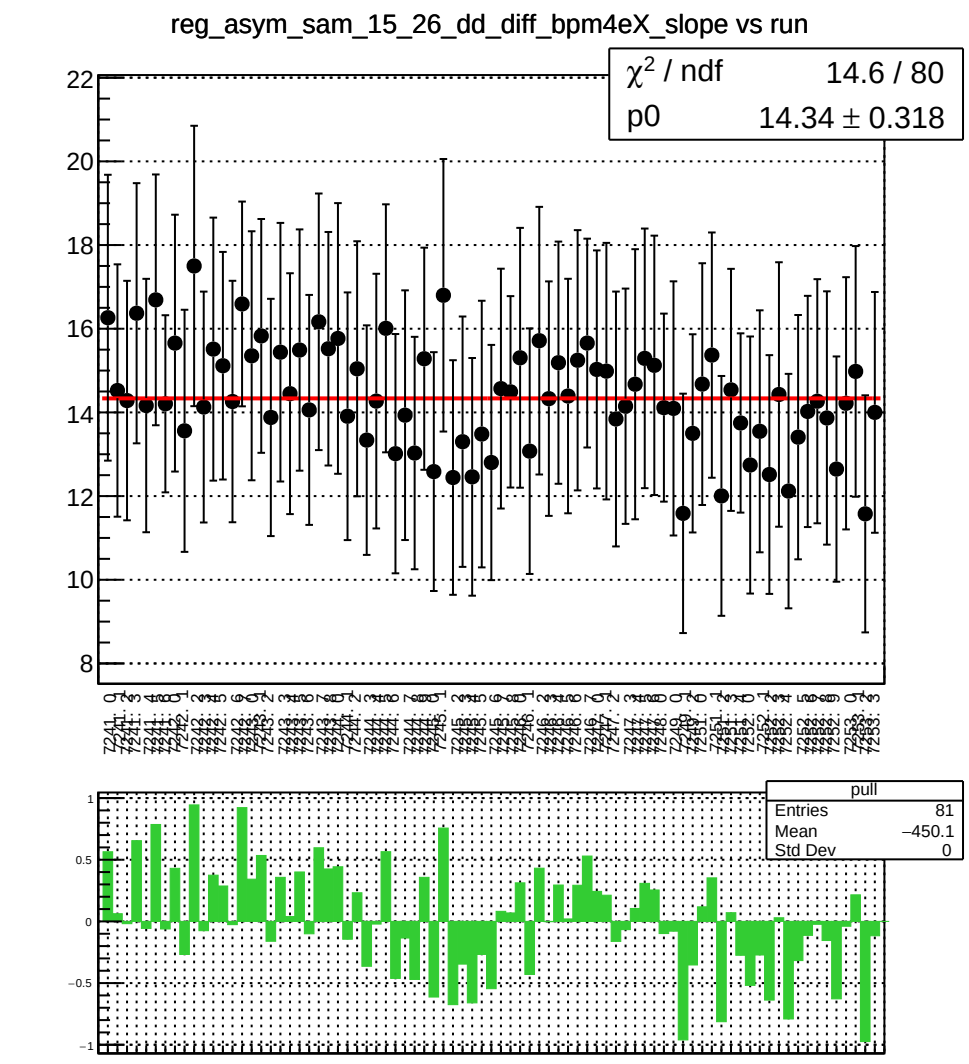

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 21.31 / 80
p0 0.2175 ± 0.0128
pull
Entries 81
Mean −274.9
Std Dev 0
pull1D
Entries 81
Mean 0.02674
Std Dev 0.5122

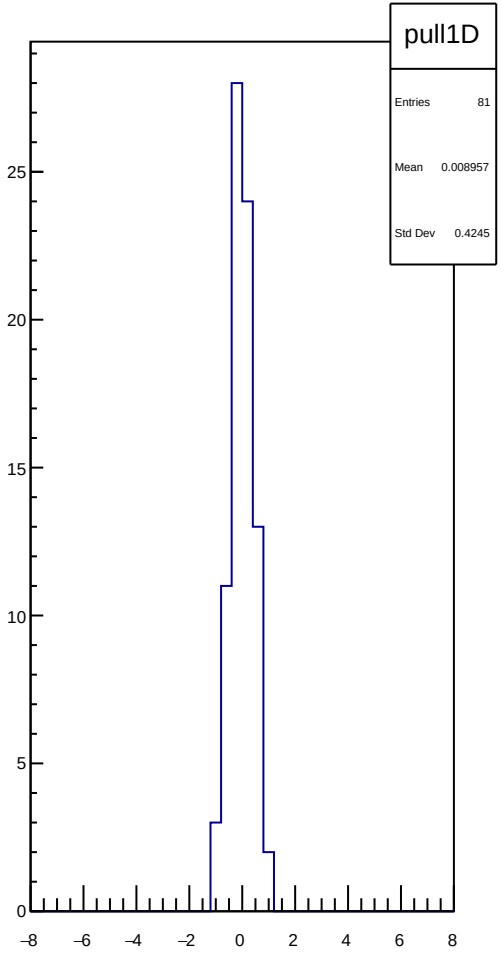

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 14.21 / 80
p0 1.974 ± 0.3063
pull
Entries 81
Mean −3718
Std Dev 0

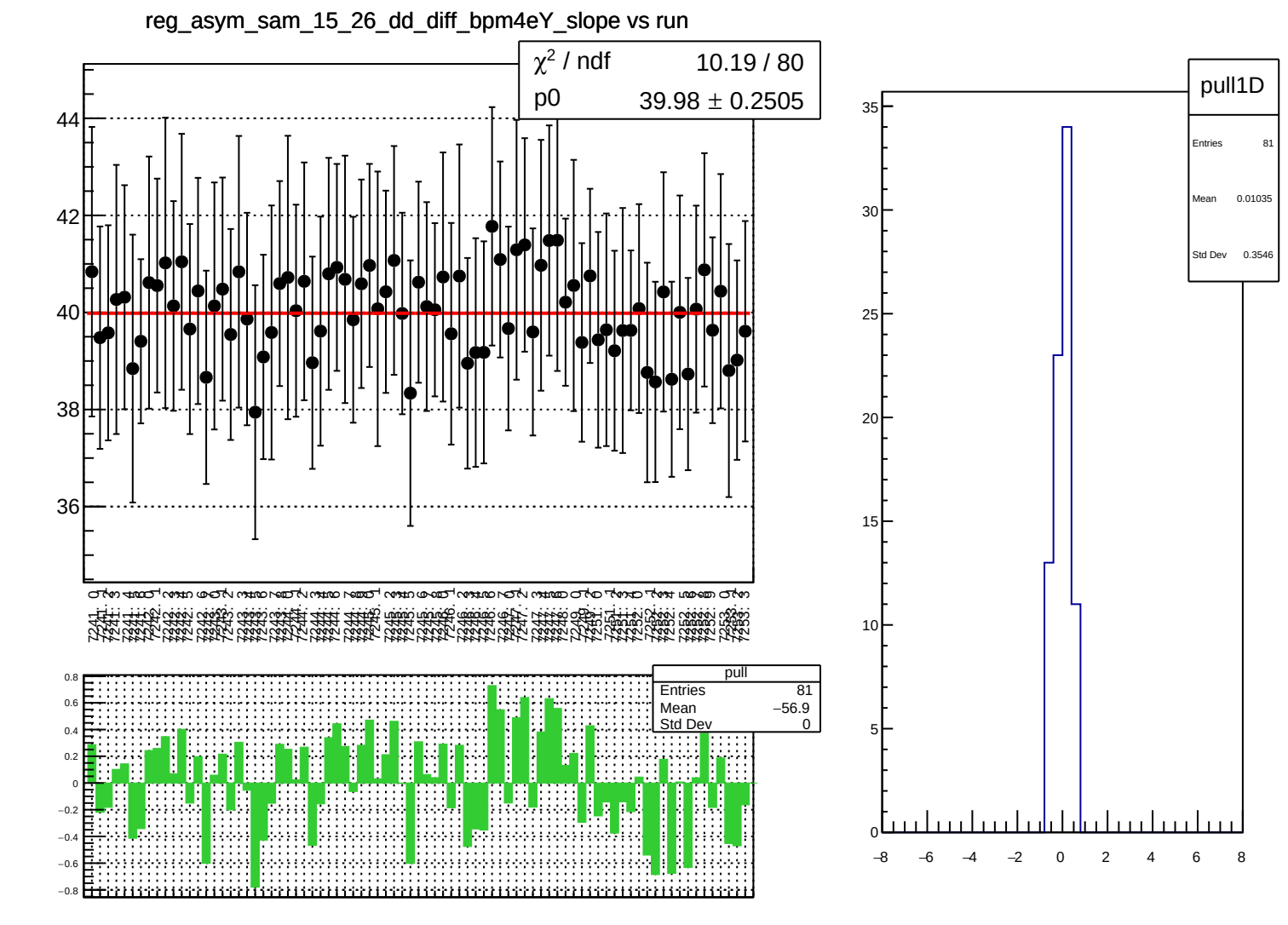

pull1D
Entries 81
Mean −0.001681
Std Dev 0.4188

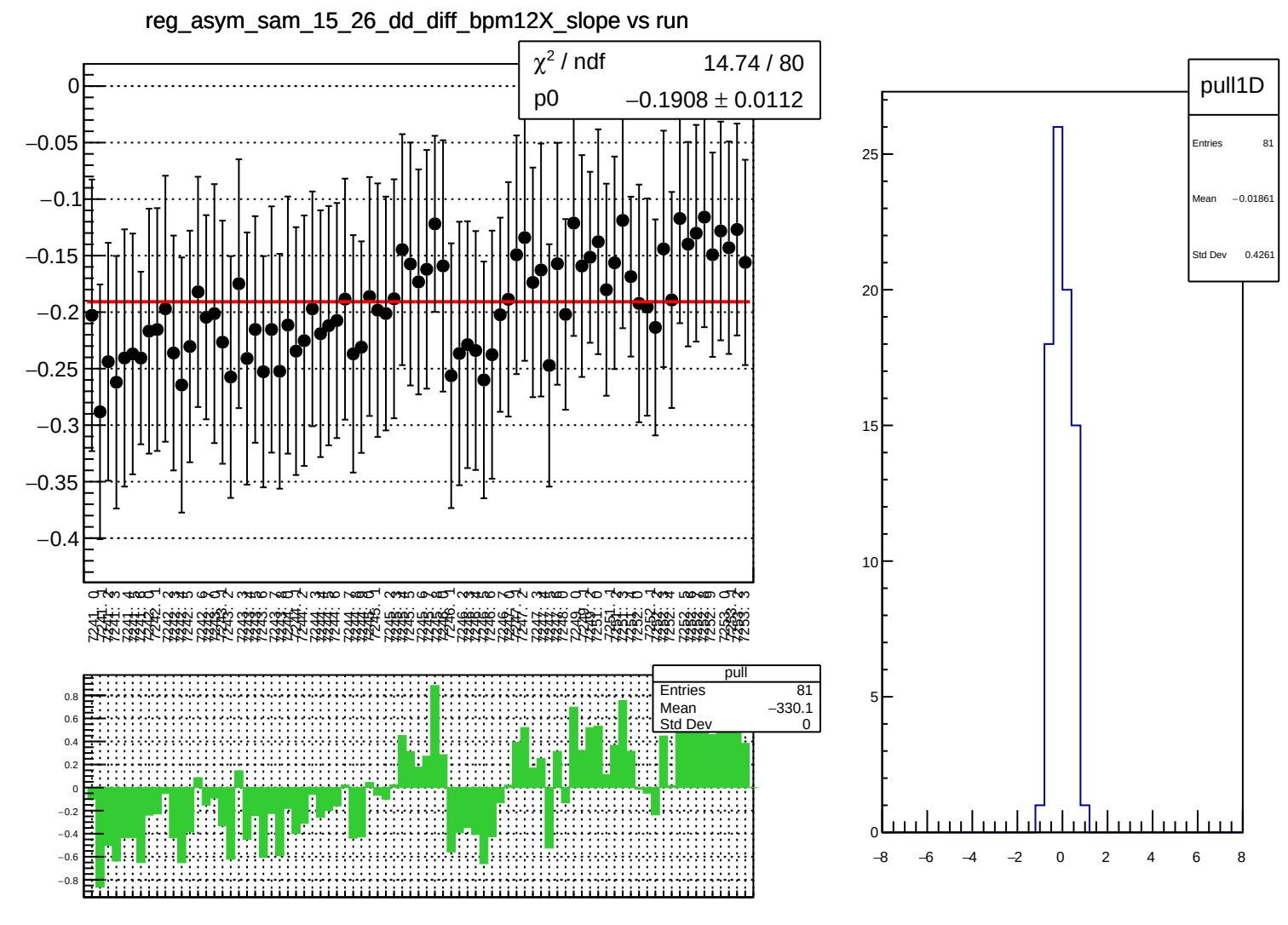

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.72 / 80
p0 −4.457 ± 0.2328
pull
Entries 81
Mean 112.2
Std Dev 0

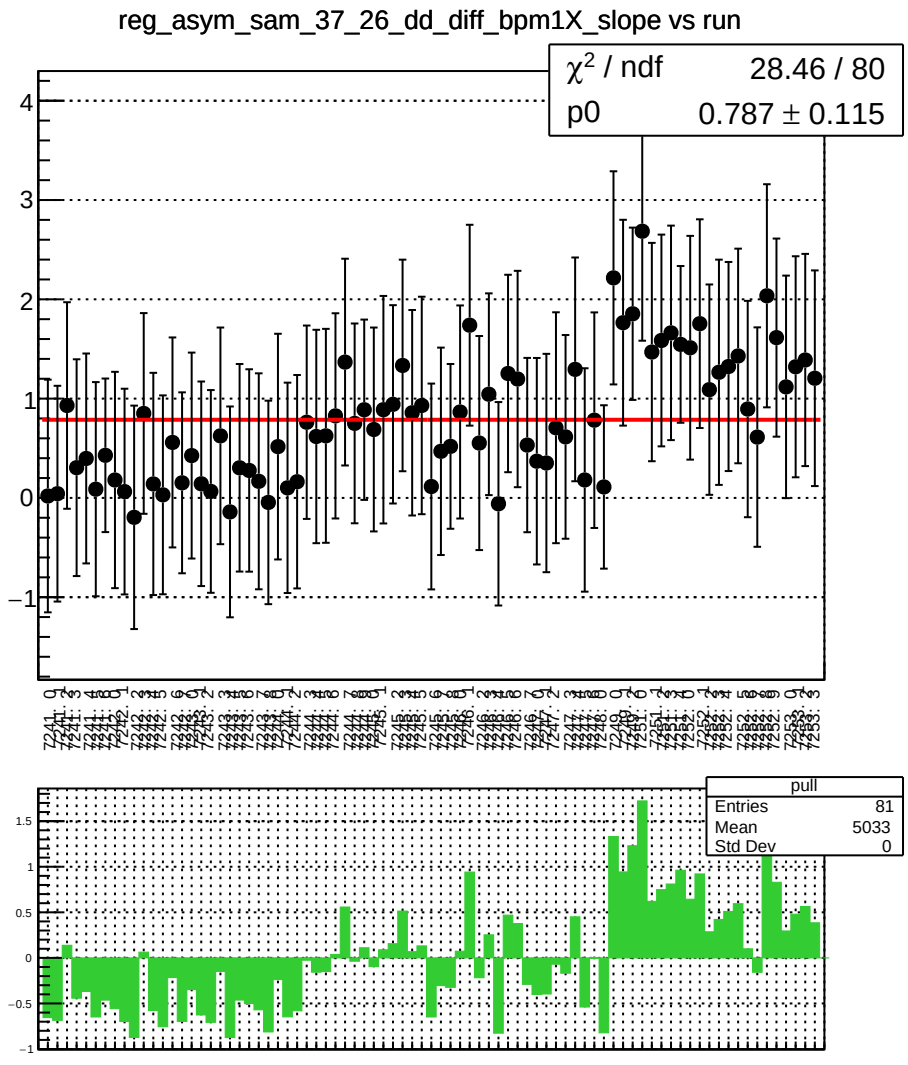

pull1D
Entries 81
Mean 0.01076
Std Dev 0.3085

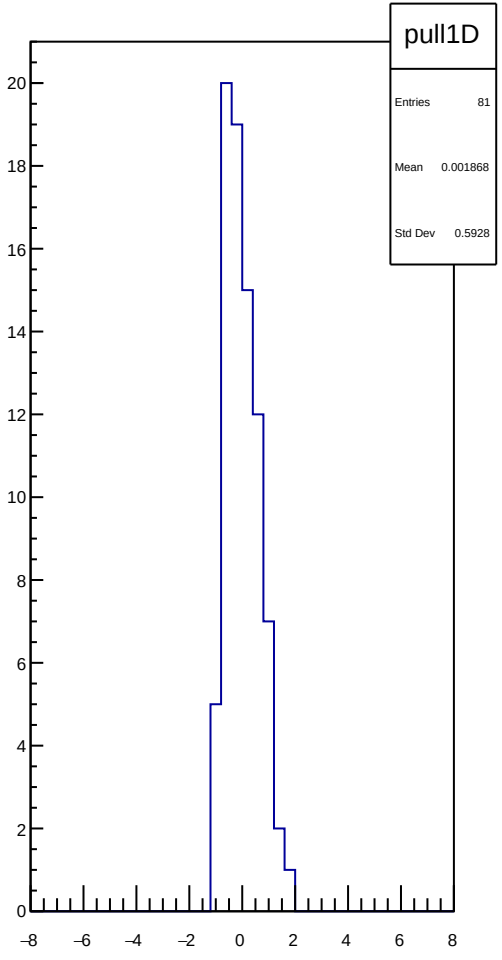

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.6 / 80
p0 14.34 ± 0.318
pull
Entries 81
Mean −450.1
Std Dev 0

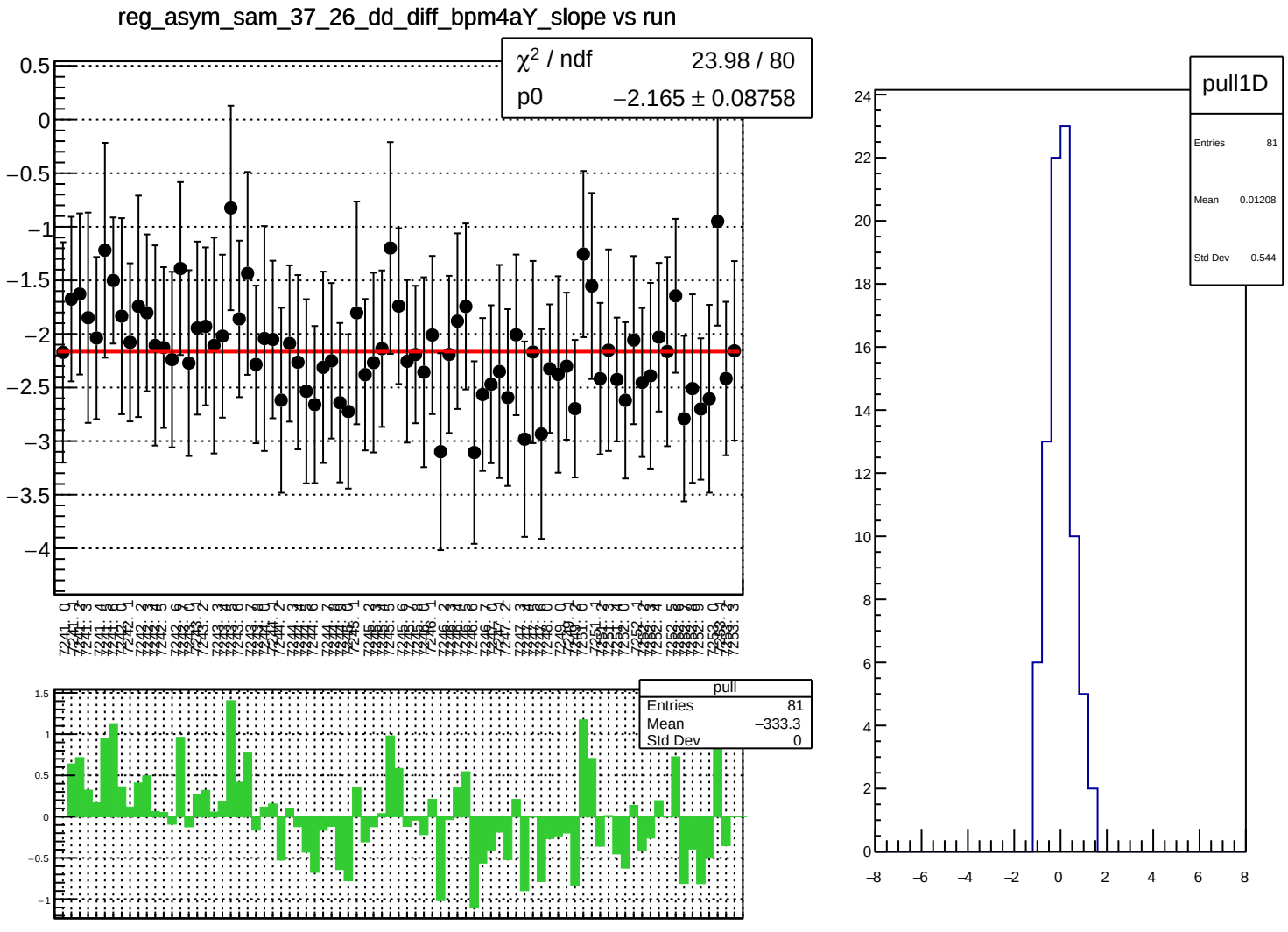

pull1D
Entries 81
Mean 0.008957
Std Dev 0.4245

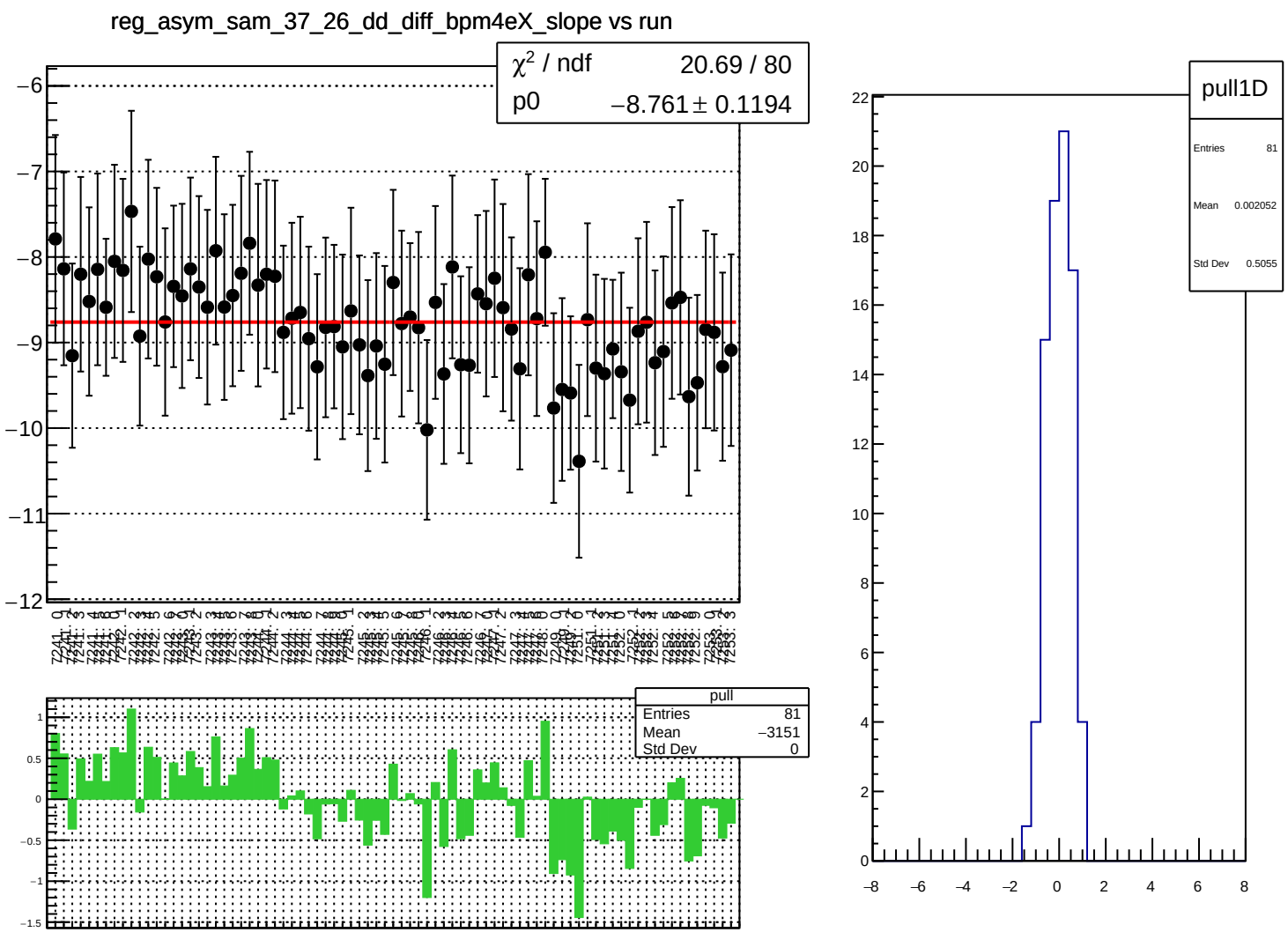

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.19 / 80
p0 39.98 ± 0.2505
pull
Entries 81
Mean −56.9
Std Dev 0
pull1D
Entries 81
Mean 0.01035
Std Dev 0.3546

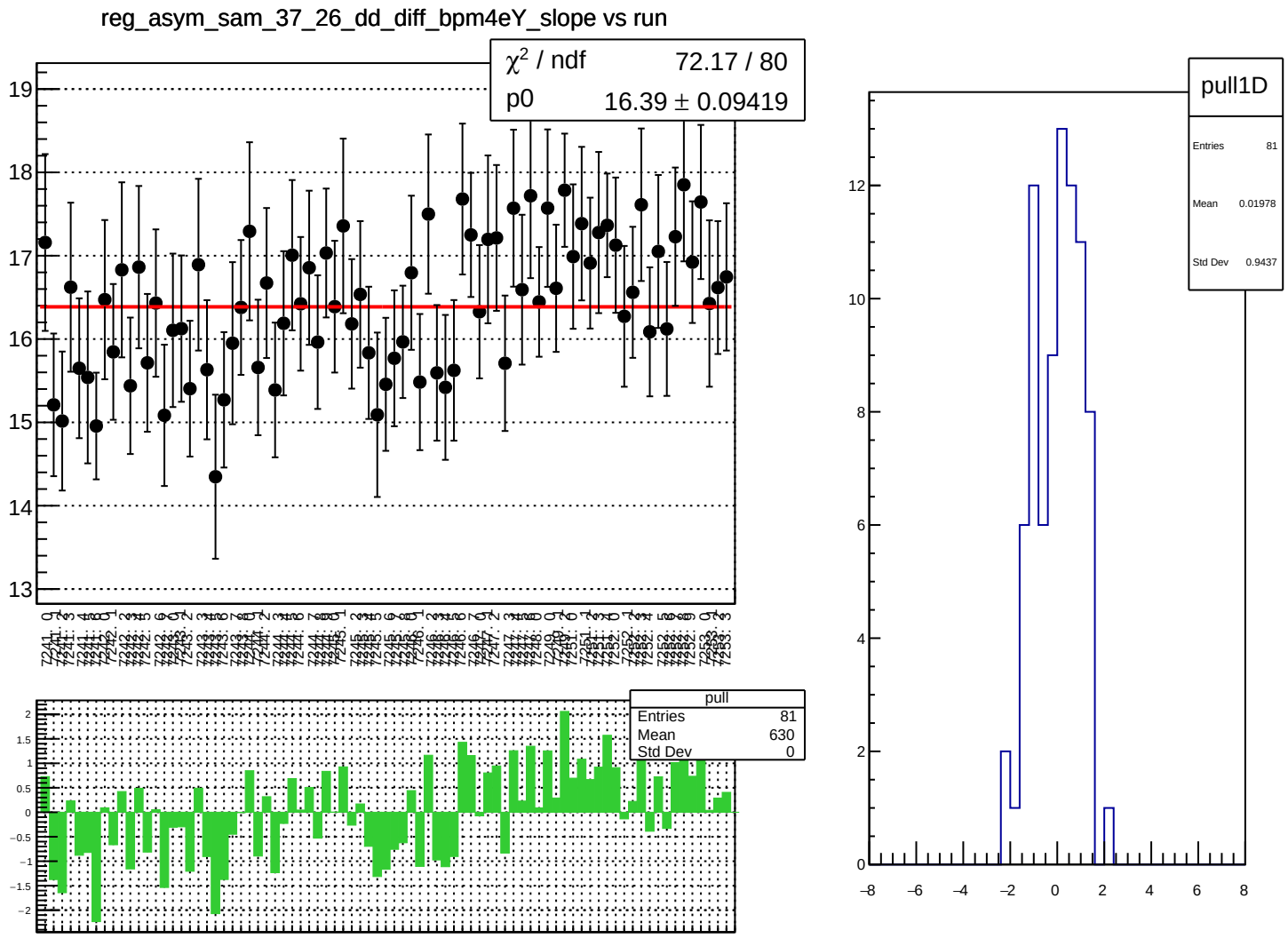

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 14.74 / 80
p0 −0.1908 ± 0.0112
pull
Entries 81
Mean −330.1
Std Dev 0
pull1D
Entries 81
Mean −0.01861
Std Dev 0.4261

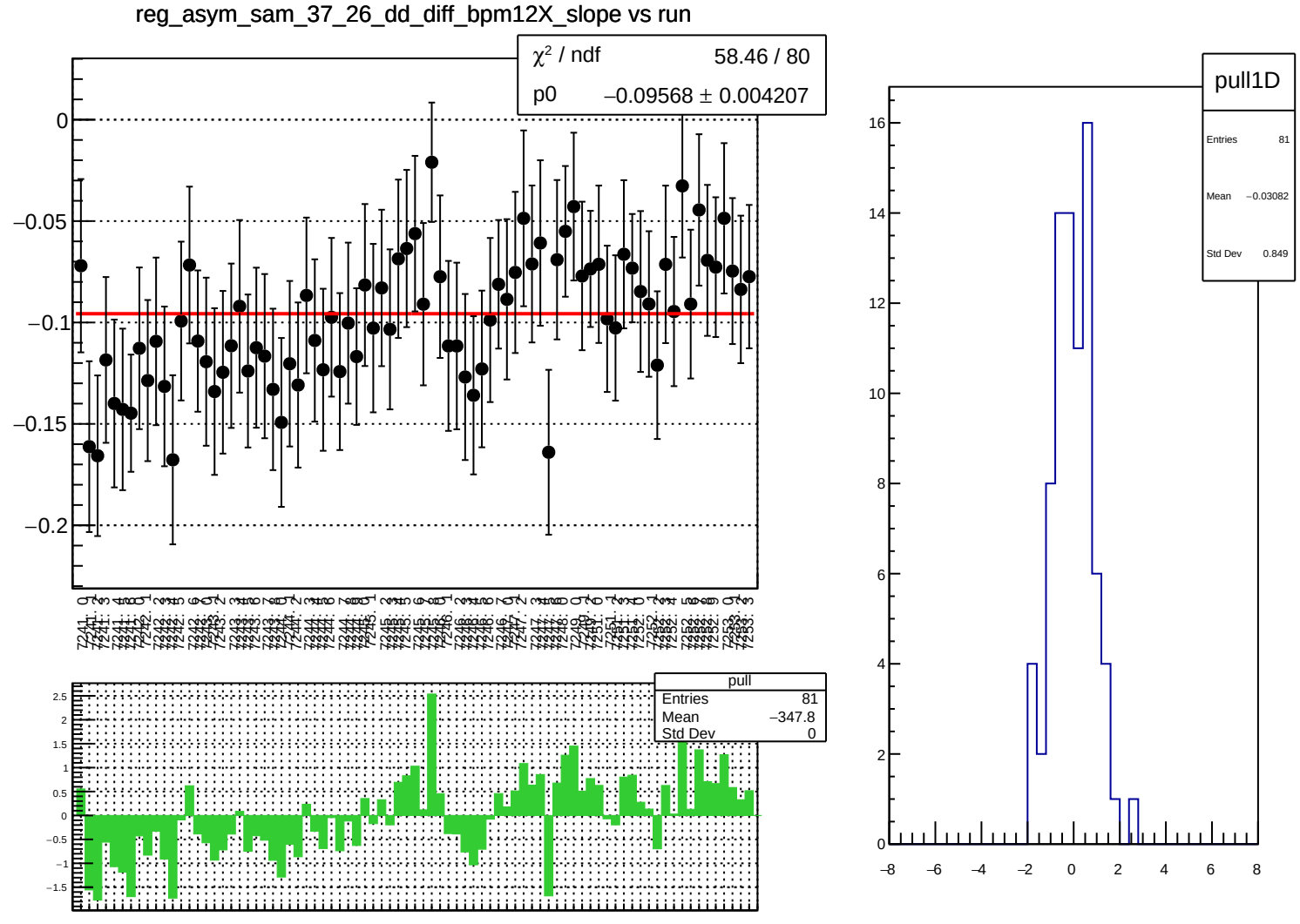

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 28.46 / 80
p0 0.787 ± 0.115
pull
Entries 81
Mean 5033
Std Dev 0

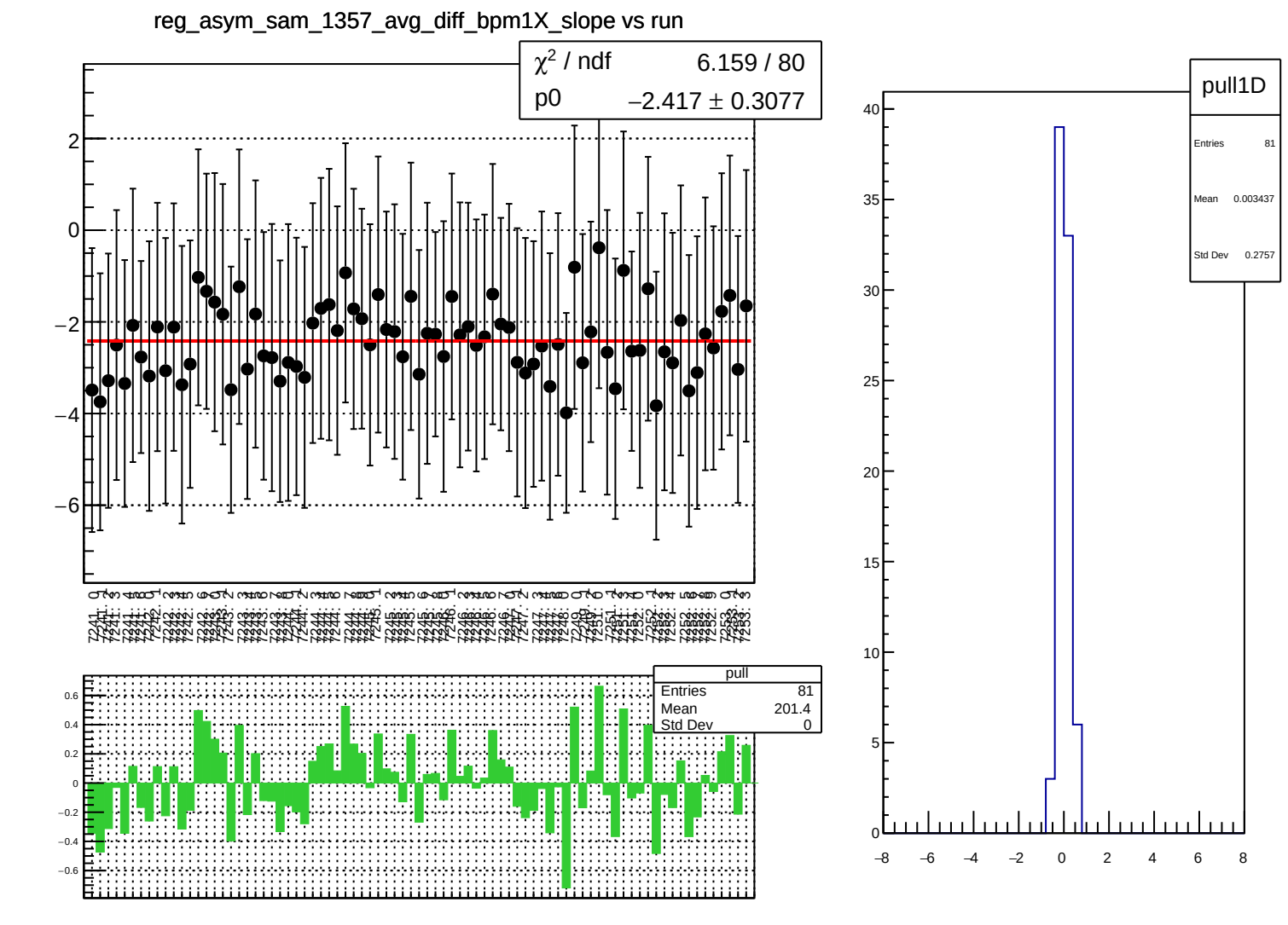

pull1D
Entries 81
Mean 0.001868
Std Dev 0.5928

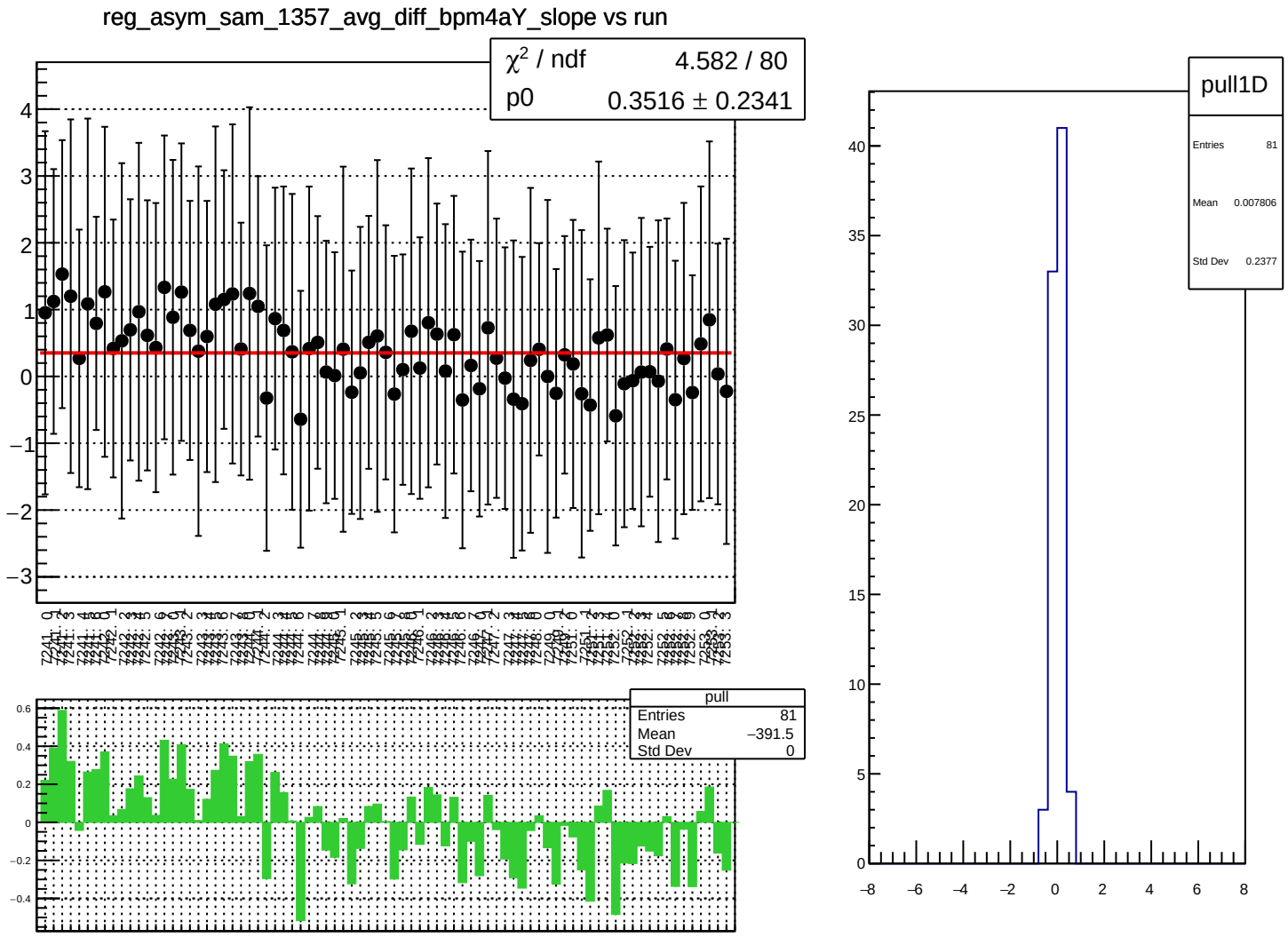

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 23.98 / 80
p0 −2.165 ± 0.08758
pull
Entries 81
Mean −333.3
Std Dev 0
pull1D
Entries 81
Mean 0.01208
Std Dev 0.544

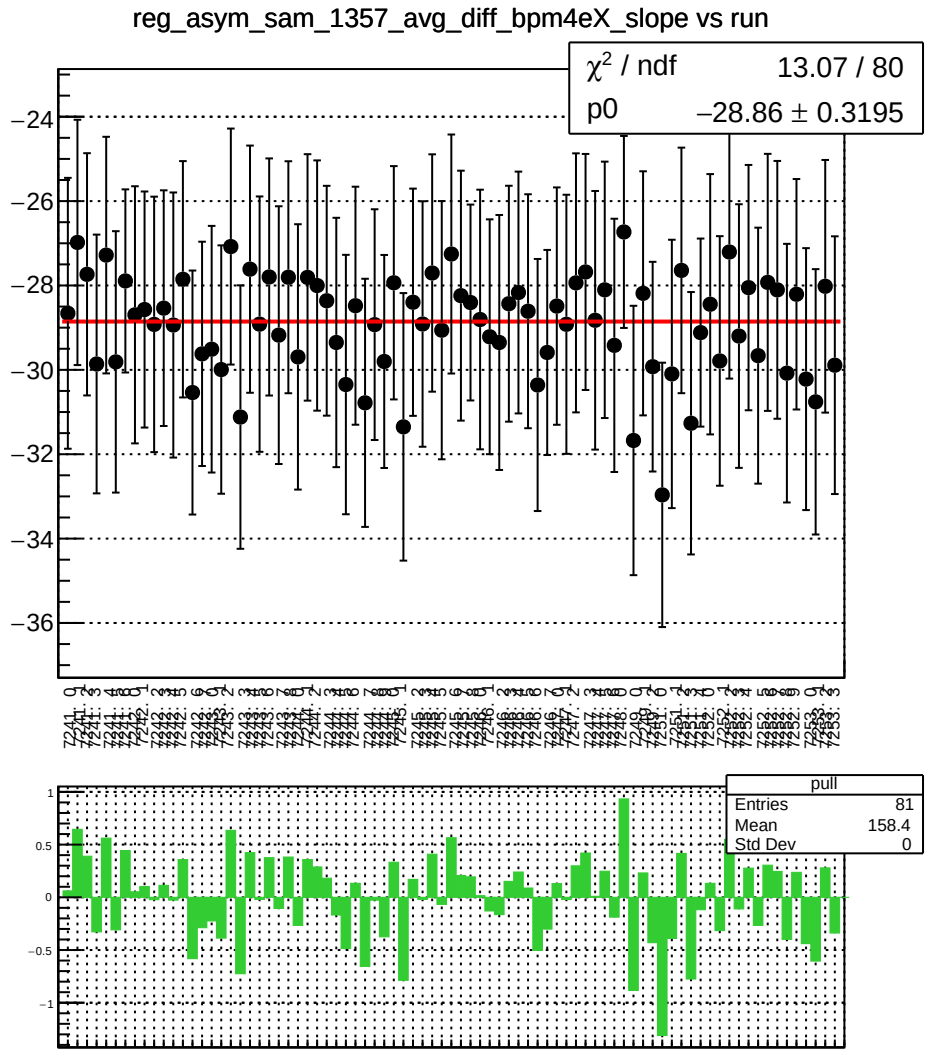

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 20.69 / 80
p0 −8.761 ± 0.1194
pull
Entries 81
Mean −3151
Std Dev 0
pull1D
Entries 81
Mean 0.002052
Std Dev 0.5055

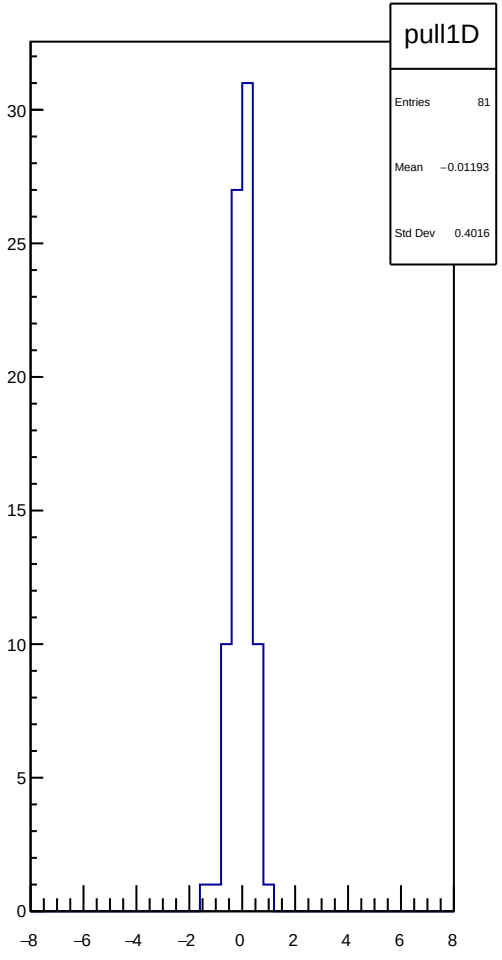

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 72.17 / 80
p0 16.39 ± 0.09419
pull
Entries 81
Mean 630
Std Dev 0
pull1D
Entries 81
Mean 0.01978
Std Dev 0.9437

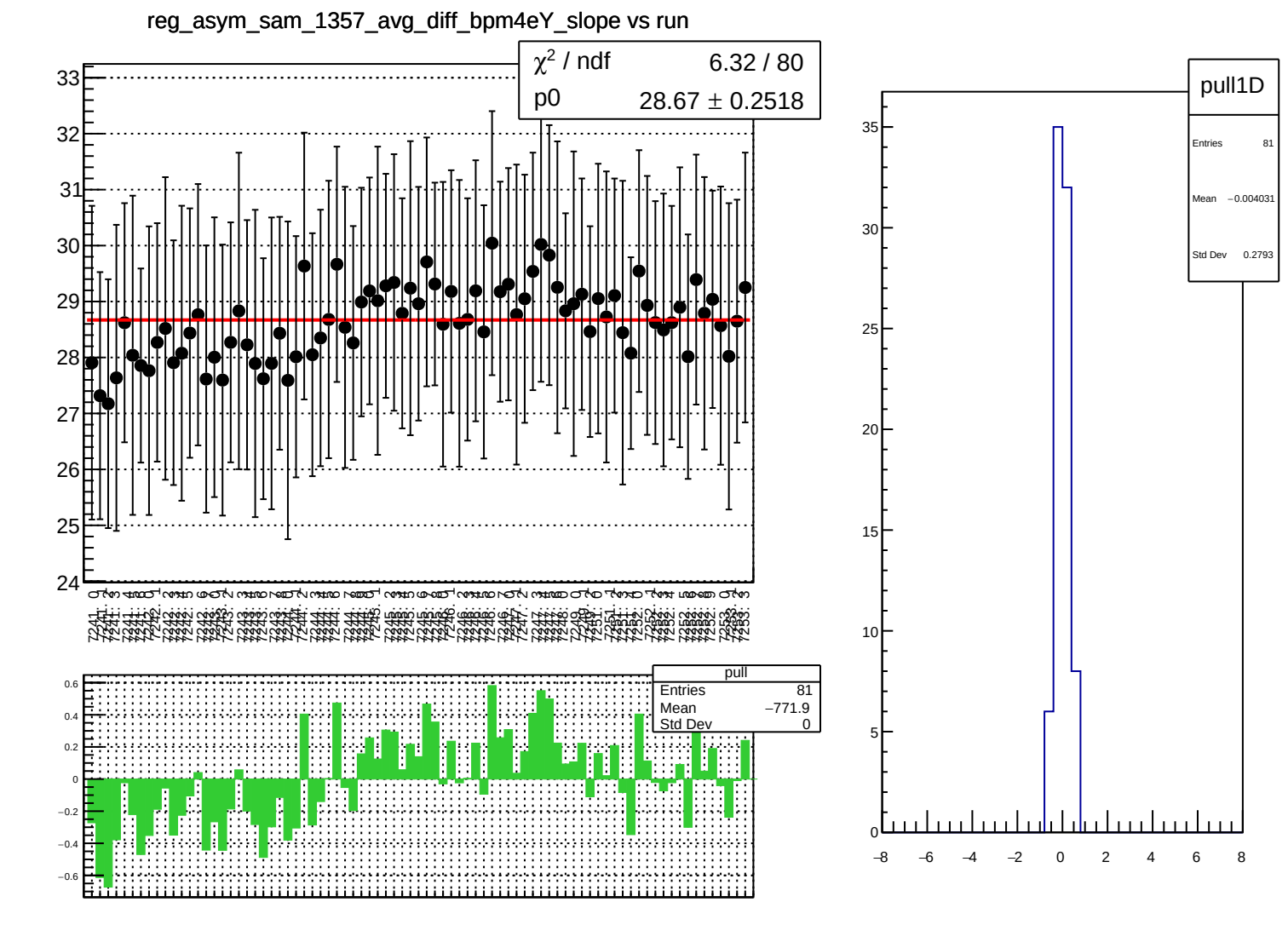

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 58.46 / 80
p0 −0.09568 ± 0.004207
pull
Entries 81
Mean −347.8
Std Dev 0
pull1D
Entries 81
Mean −0.03082
Std Dev 0.849

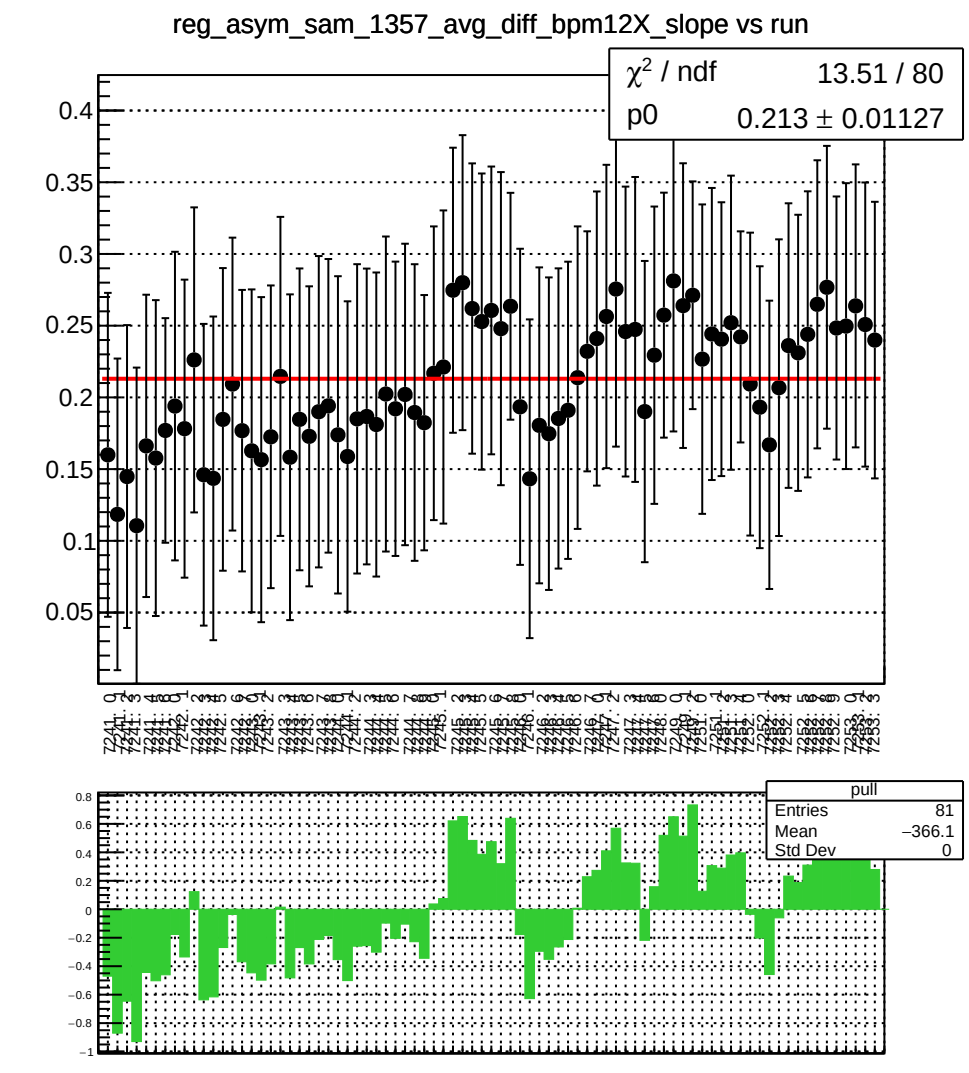

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 6.159 / 80
p0 −2.417 ± 0.3077
pull
Entries 81
Mean 201.4
Std Dev 0
pull1D
Entries 81
Mean 0.003437
Std Dev 0.2757

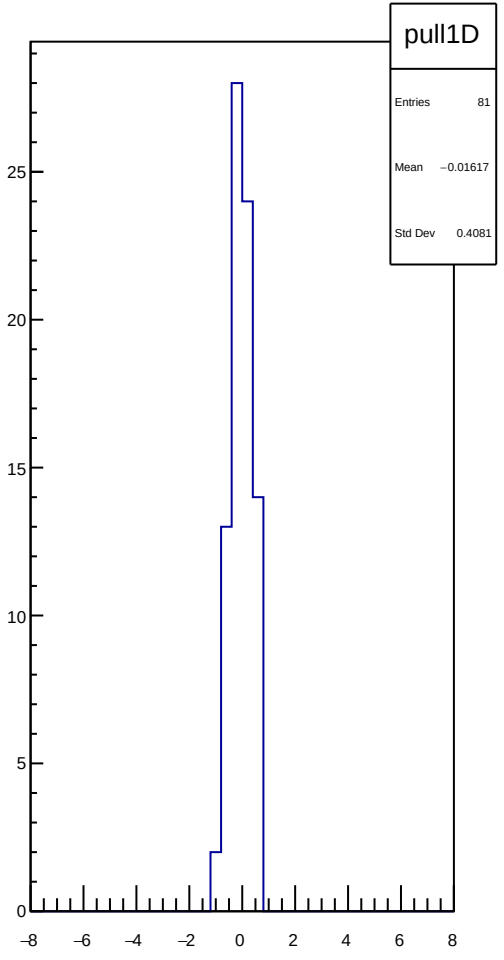

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.582 / 80
p0 0.3516 ± 0.2341
pull
Entries 81
Mean −391.5
Std Dev 0
pull1D
Entries 81
Mean 0.007806
Std Dev 0.2377

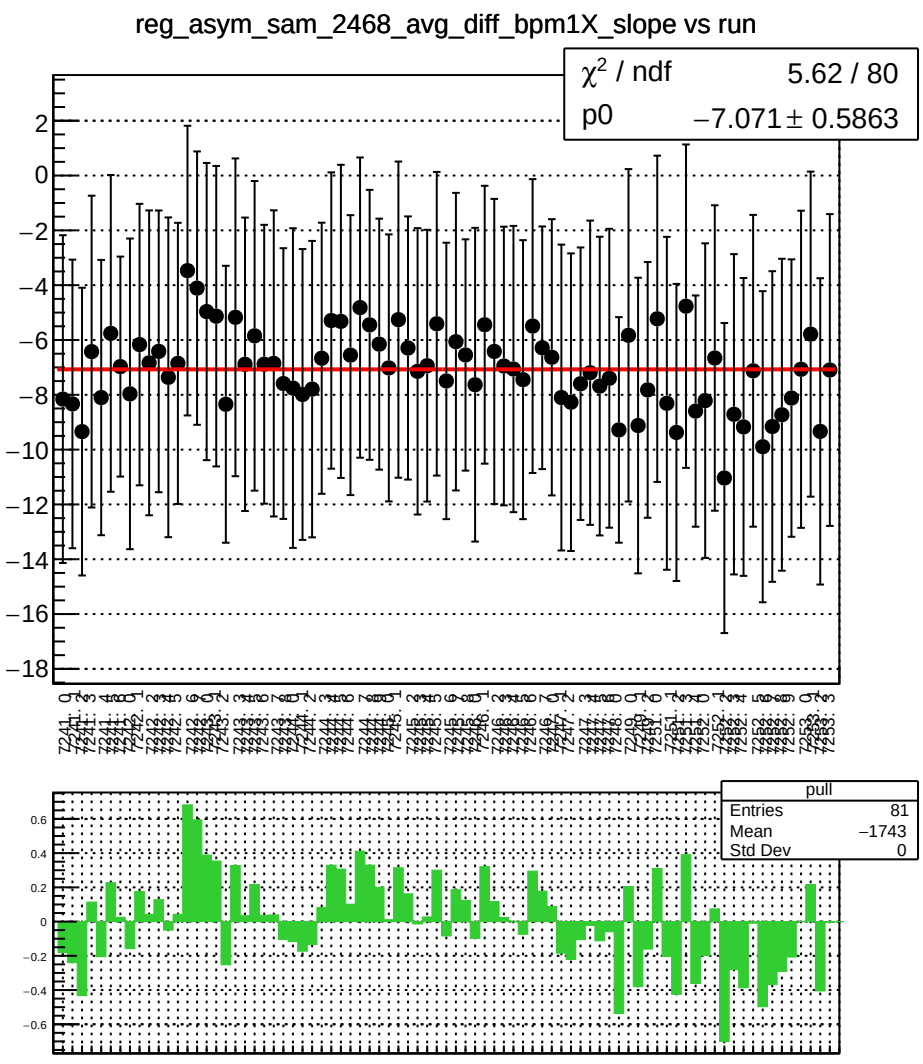

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 13.07 / 80
p0 −28.86 ± 0.3195
pull
Entries 81
Mean 158.4
Std Dev 0

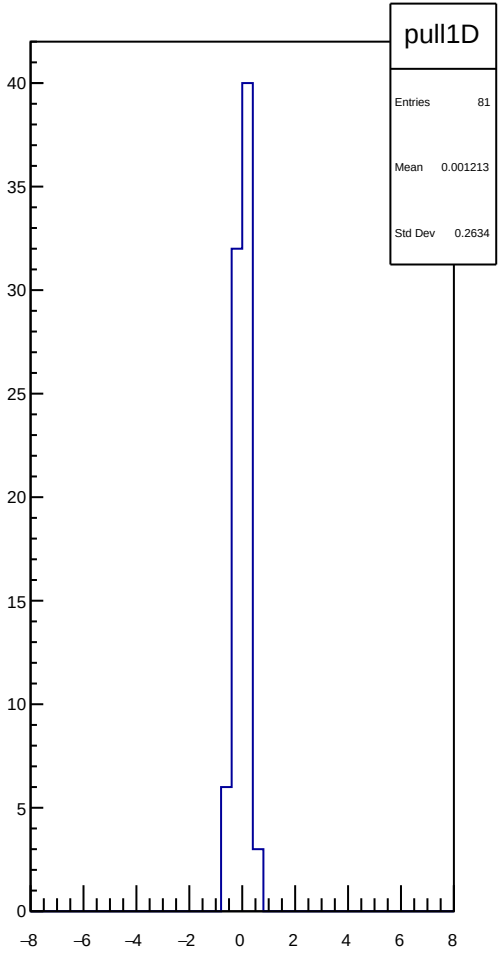

pull1D
Entries 81
Mean −0.01193
Std Dev 0.4016

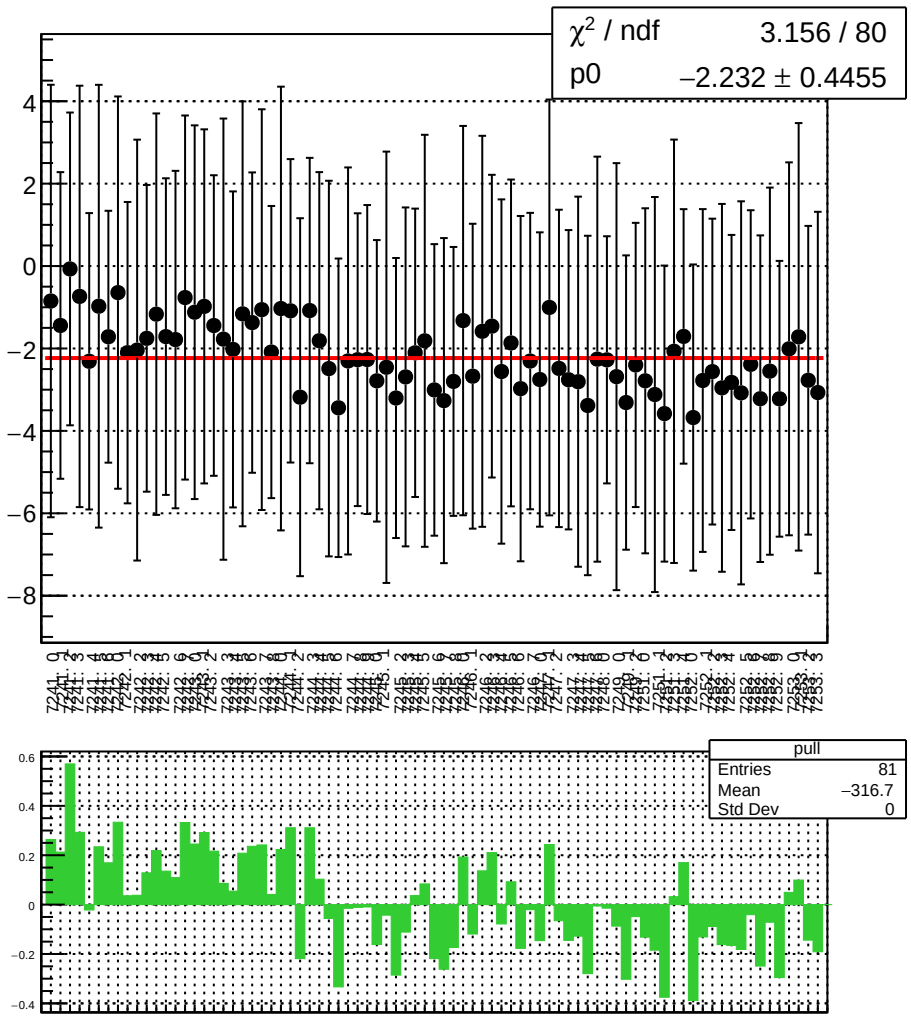

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.32 / 80
p0 28.67 ± 0.2518
pull
Entries 81
Mean −771.9
Std Dev 0
pull1D
Entries 81
Mean −0.004031
Std Dev 0.2793

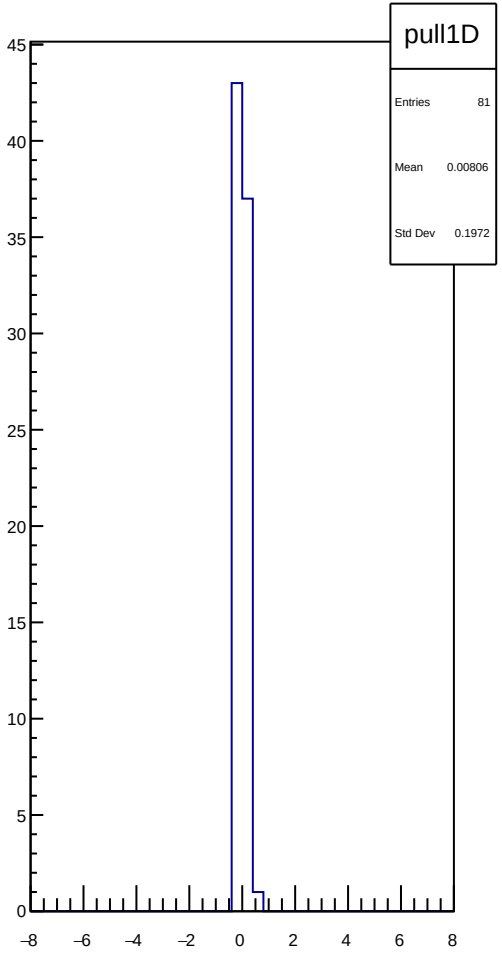

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 13.51 / 80
p0 0.213 ± 0.01127
pull
Entries 81
Mean −366.1
Std Dev 0

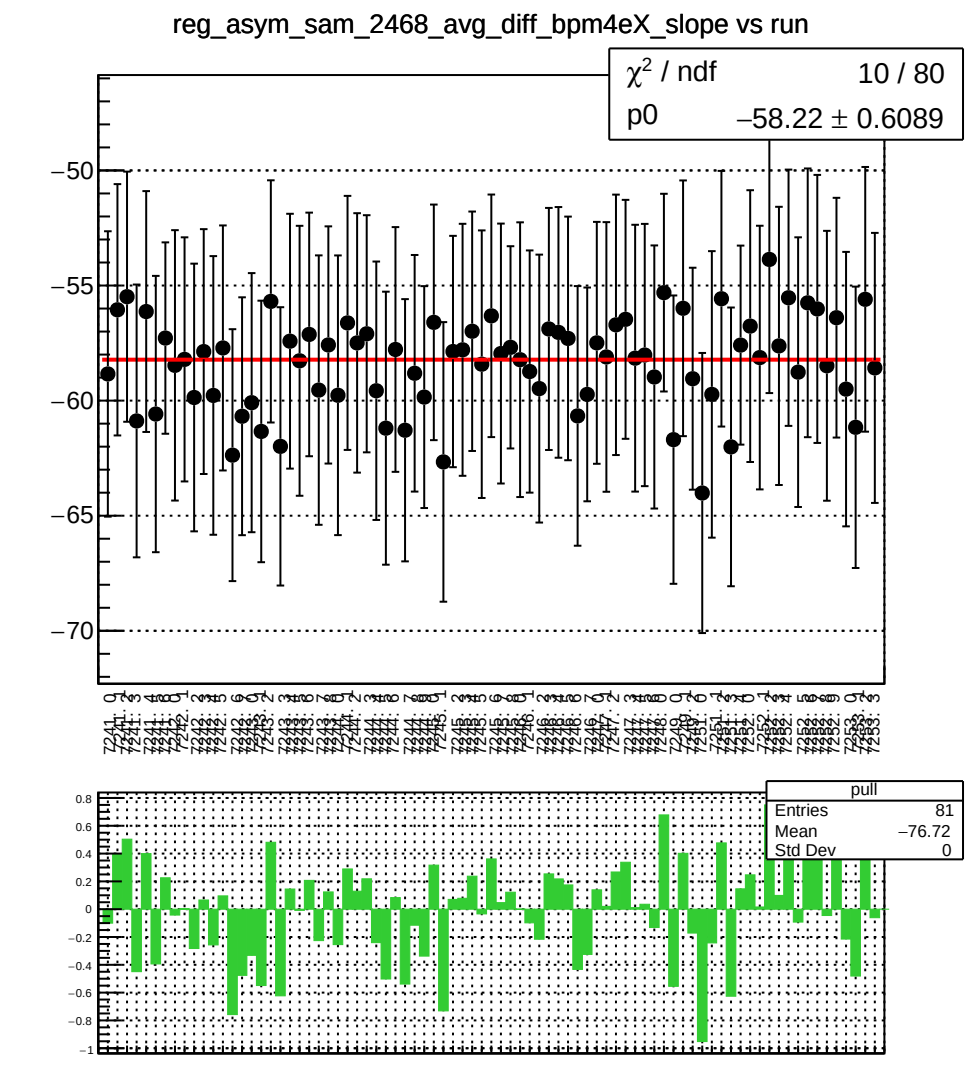

pull1D
Entries 81
Mean −0.01617
Std Dev 0.4081

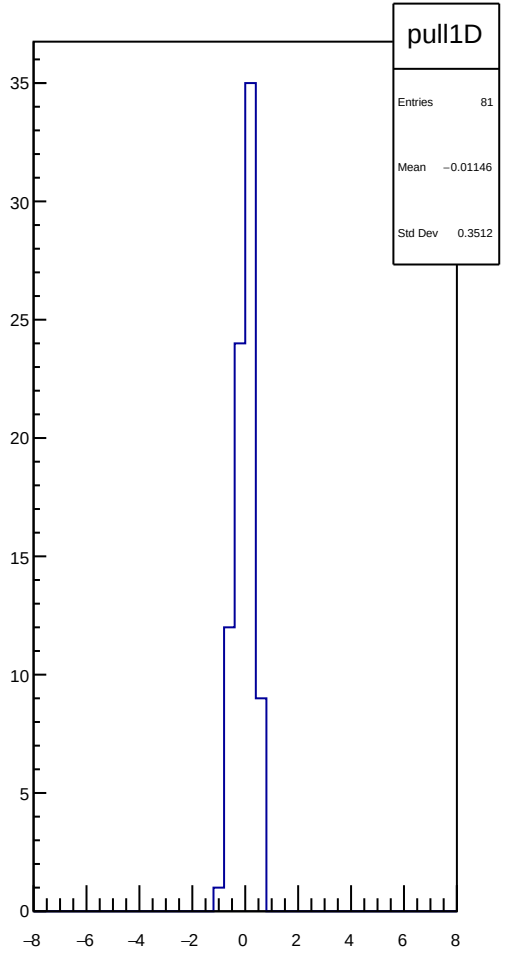

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 5.62 / 80
p0 −7.071 ± 0.5863
pull
Entries 81
Mean −1743
Std Dev 0

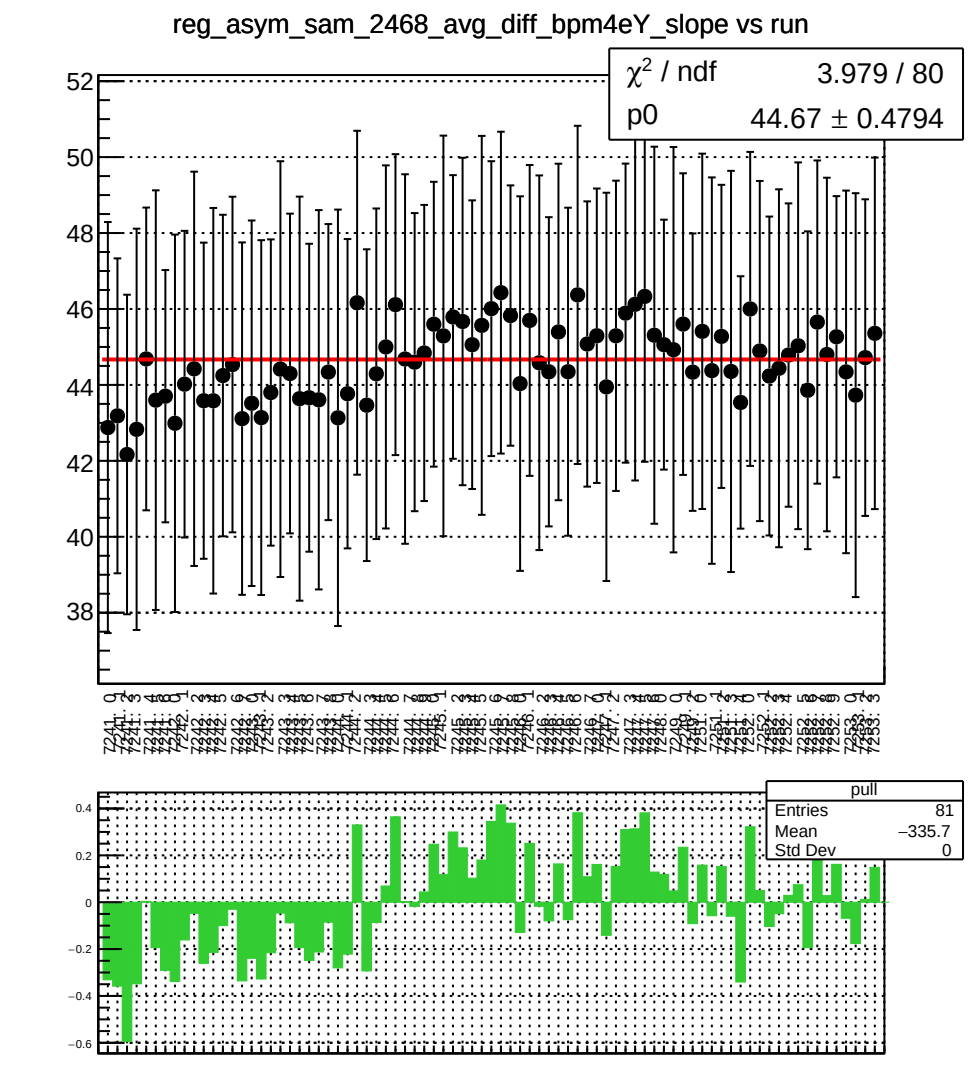

pull1D
Entries 81
Mean 0.001213
Std Dev 0.2634

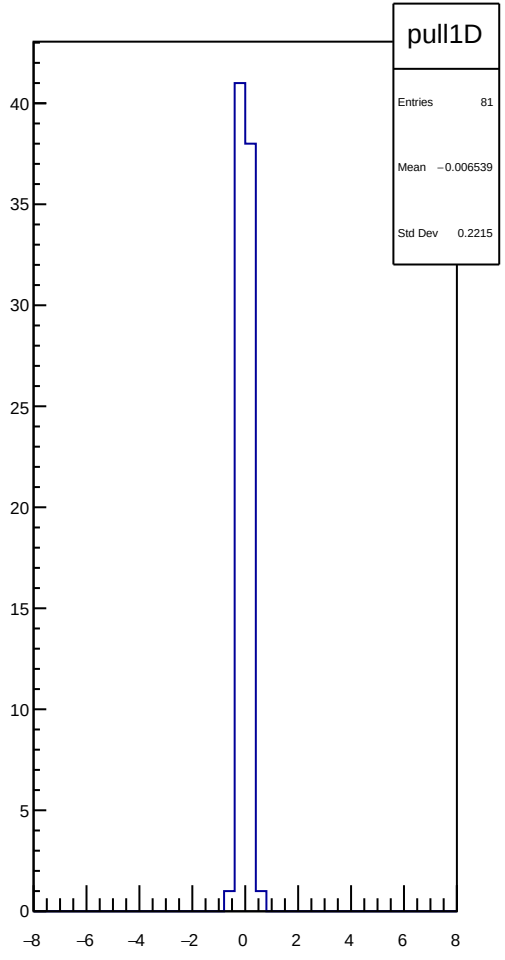

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.156 / 80
p0 −2.232 ± 0.4455
pull
Entries 81
Mean −316.7
Std Dev 0

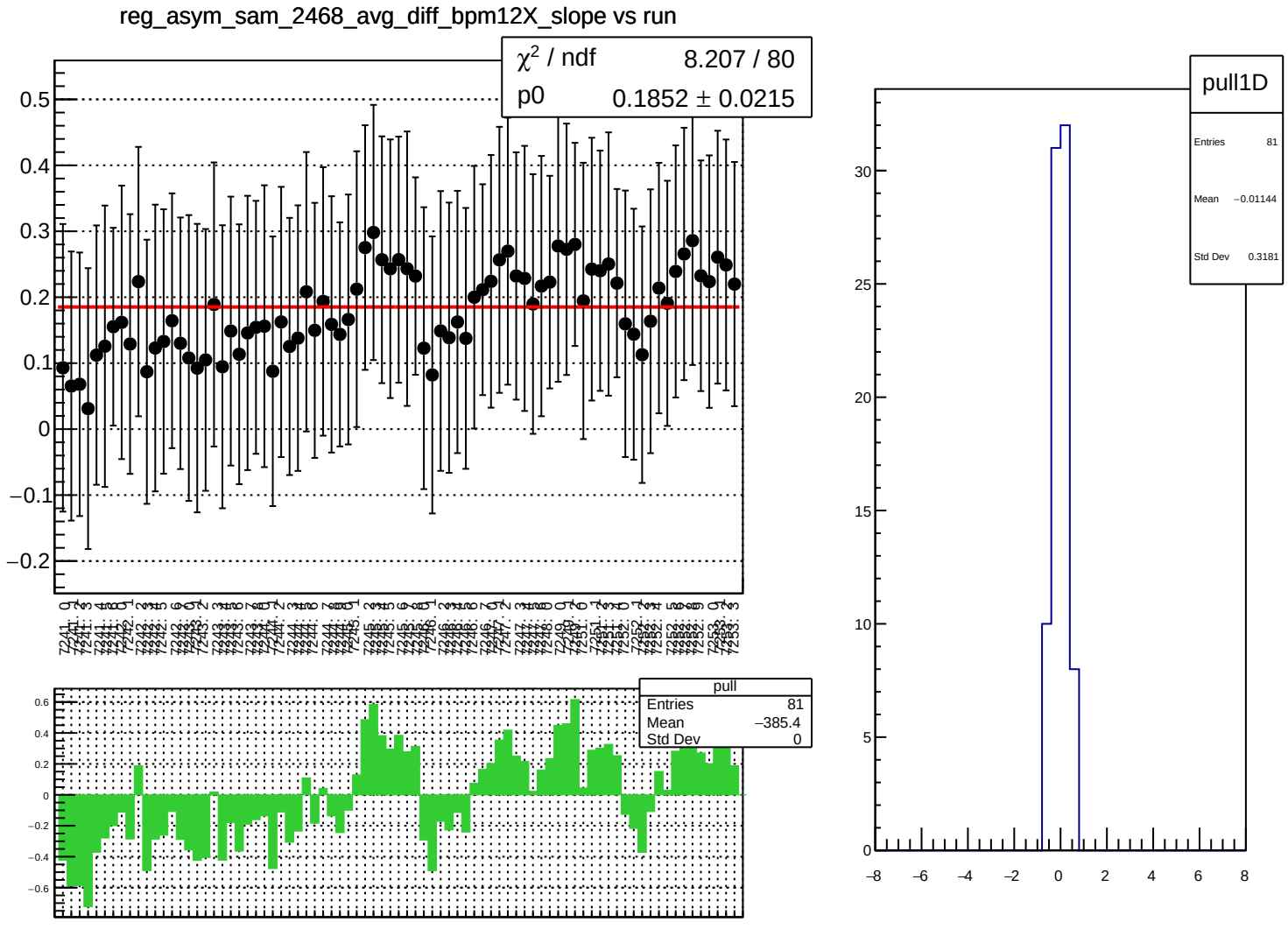

pull1D
Entries 81
Mean 0.00806
Std Dev 0.1972

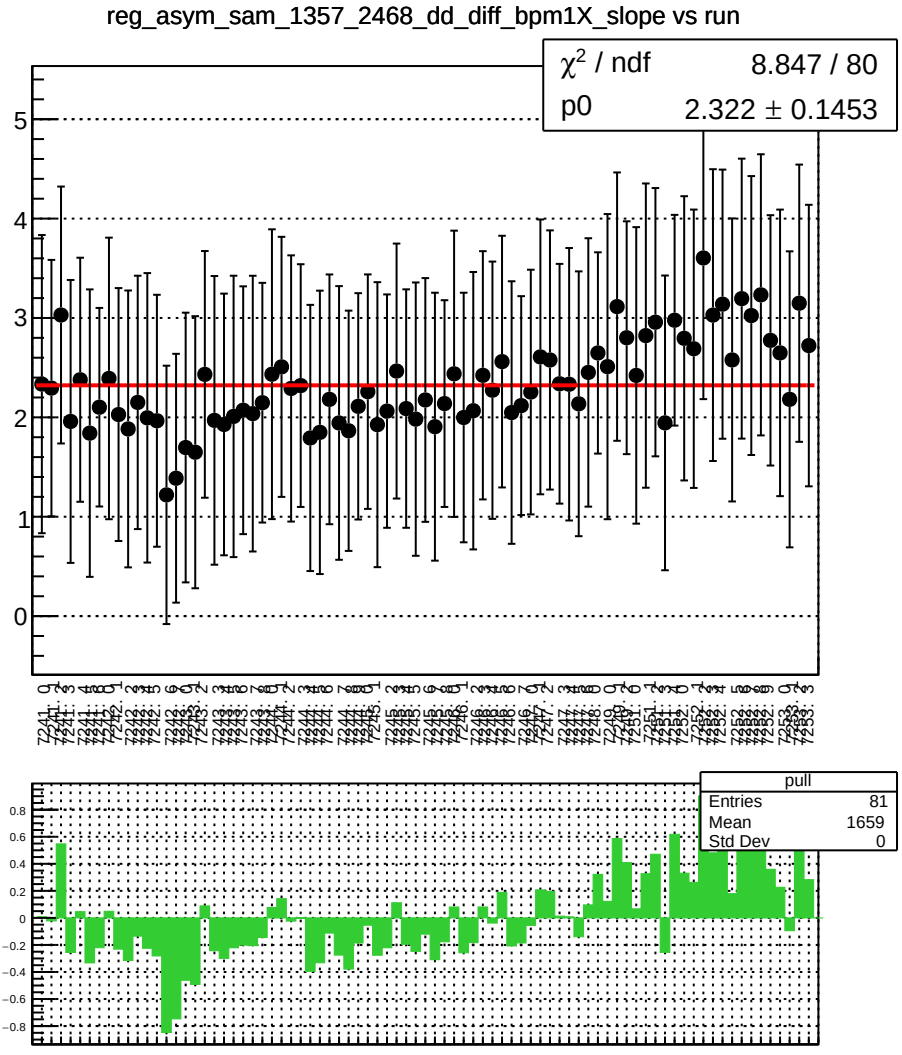

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 10 / 80
p0 −58.22 ± 0.6089
pull
Entries 81
Mean −76.72
Std Dev 0

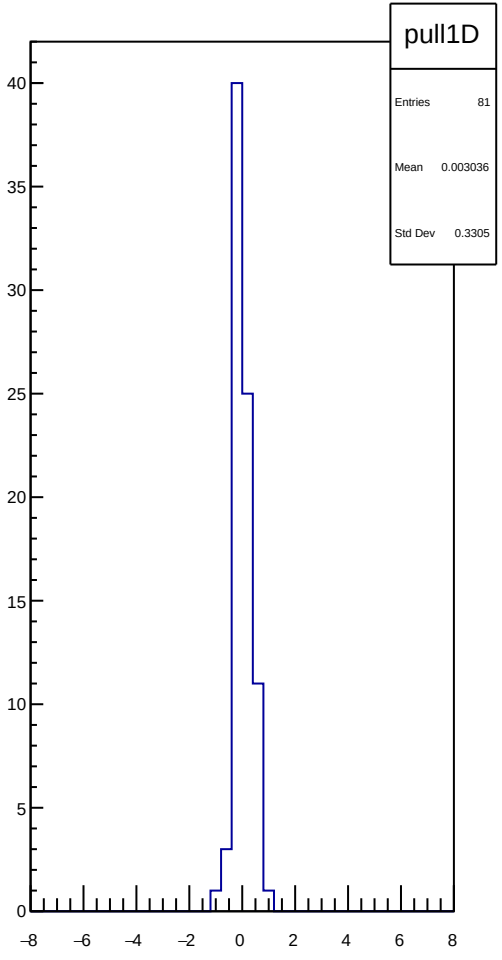

pull1D
Entries 81
Mean −0.01146
Std Dev 0.3512

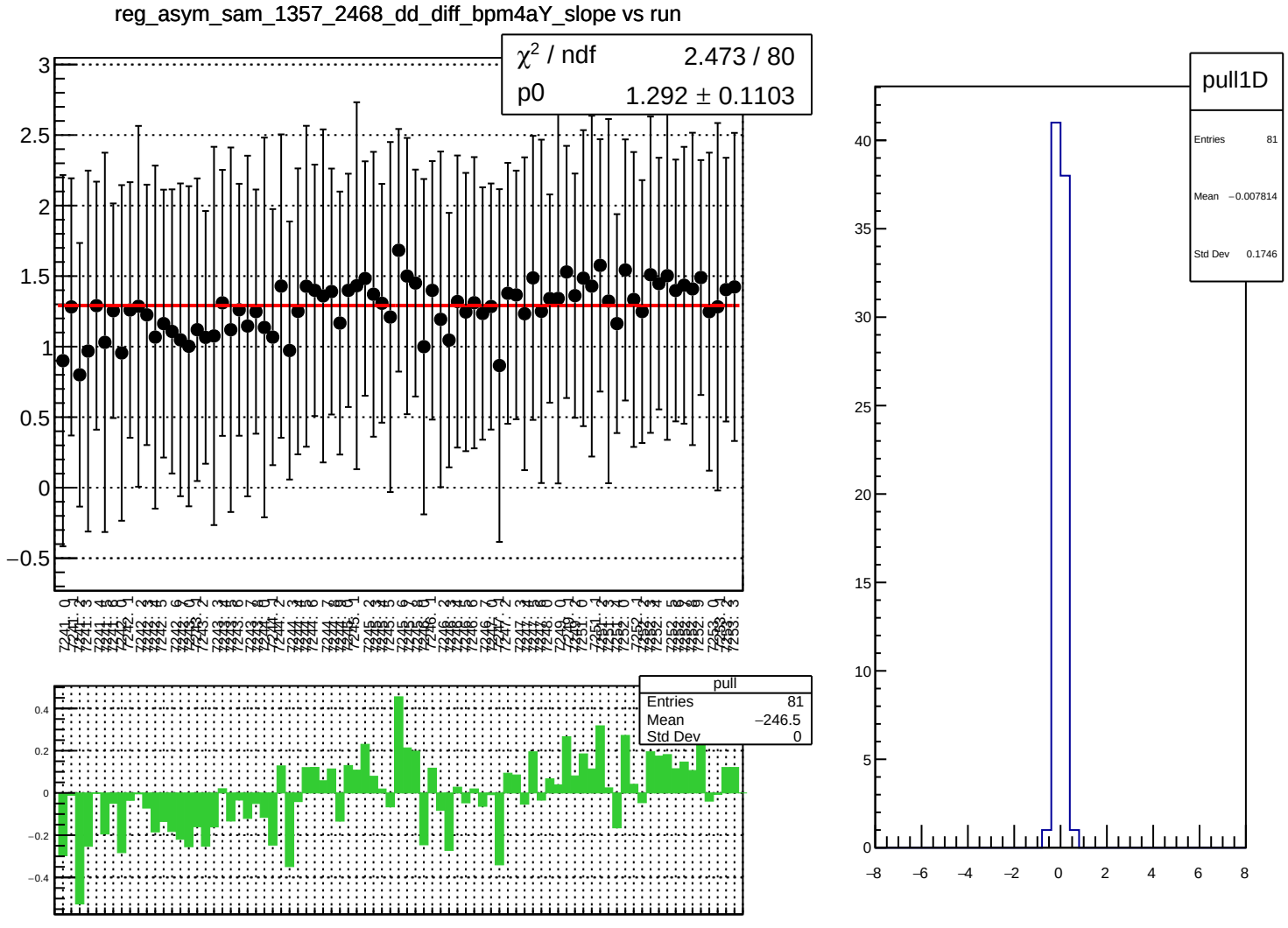

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.979 / 80
p0 44.67 ± 0.4794
pull
Entries 81
Mean −335.7
Std Dev 0

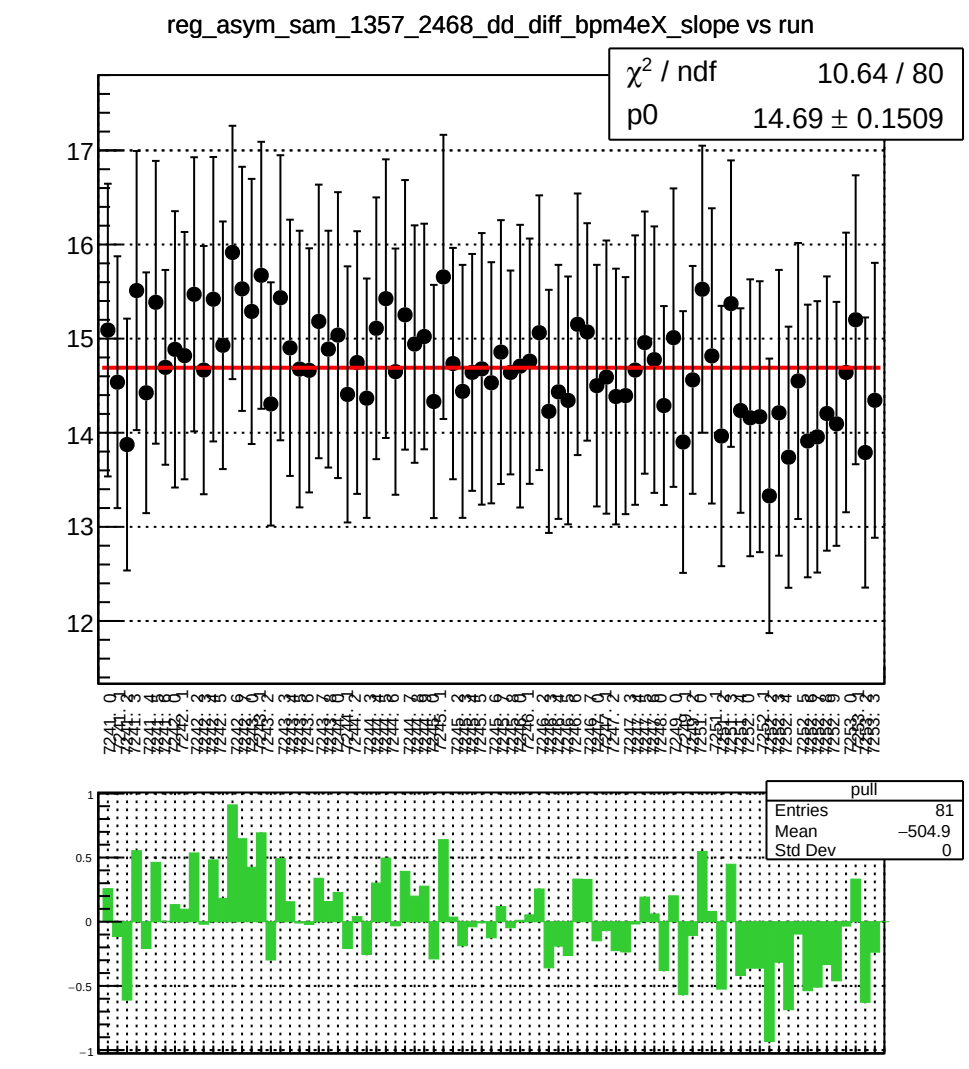

pull1D
Entries 81
Mean −0.006539
Std Dev 0.2215

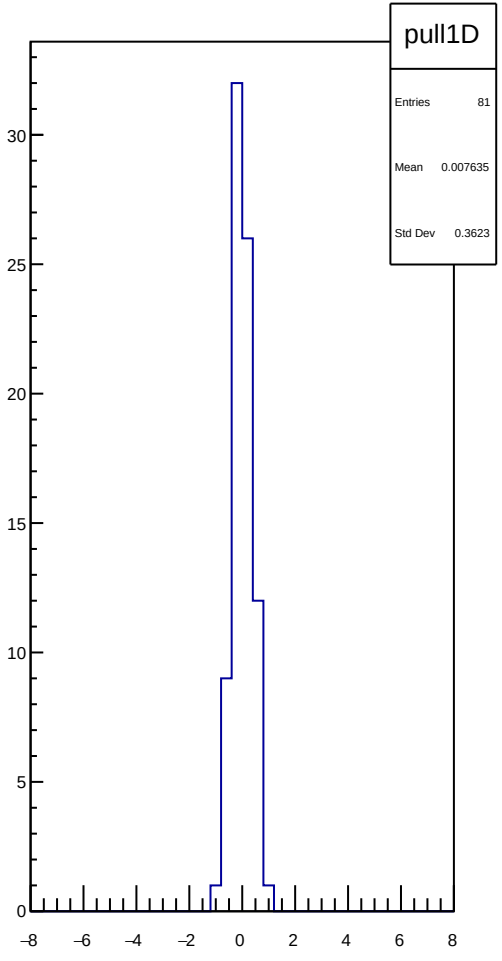

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 8.207 / 80
p0 0.1852 ± 0.0215
pull
Entries 81
Mean −385.4
Std Dev 0
pull1D
Entries 81
Mean −0.01144
Std Dev 0.3181

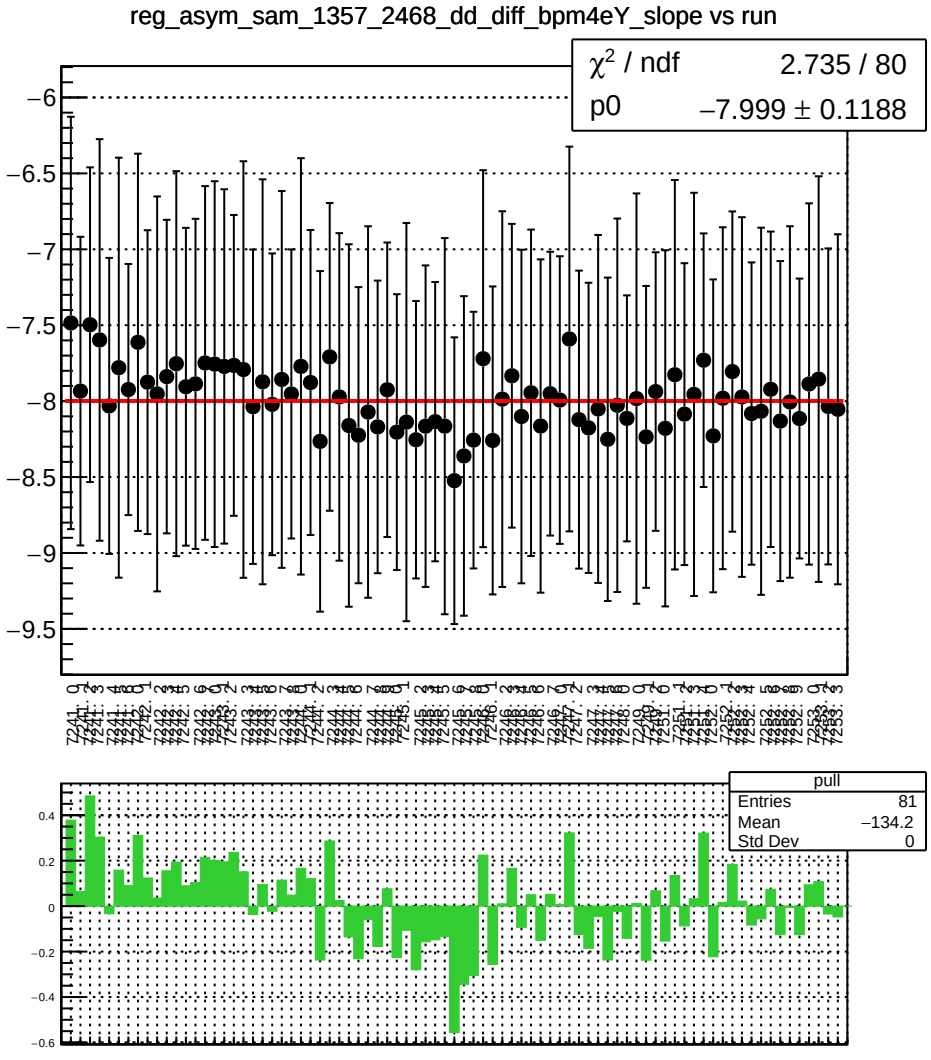

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 8.847 / 80
p0 2.322 ± 0.1453
pull
Entries 81
Mean 1659
Std Dev 0

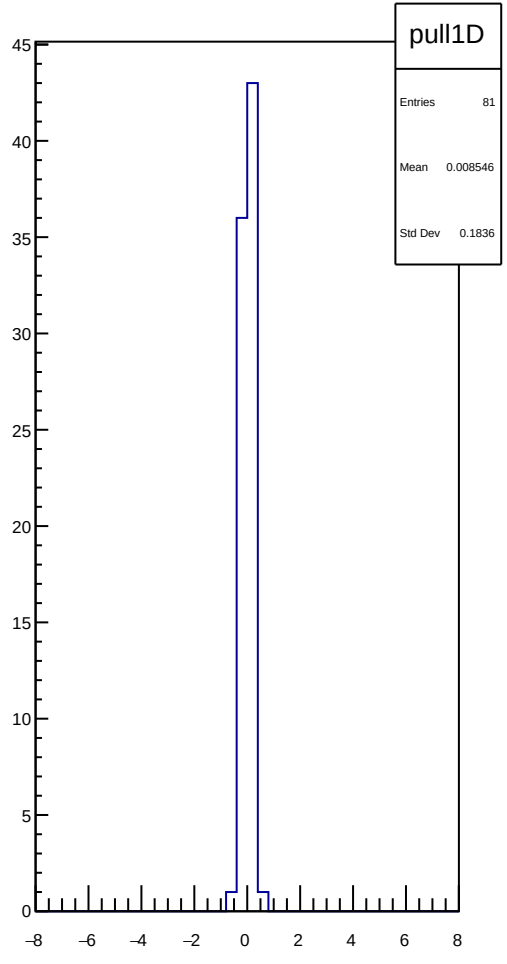

pull1D
Entries 81
Mean 0.003036
Std Dev 0.3305

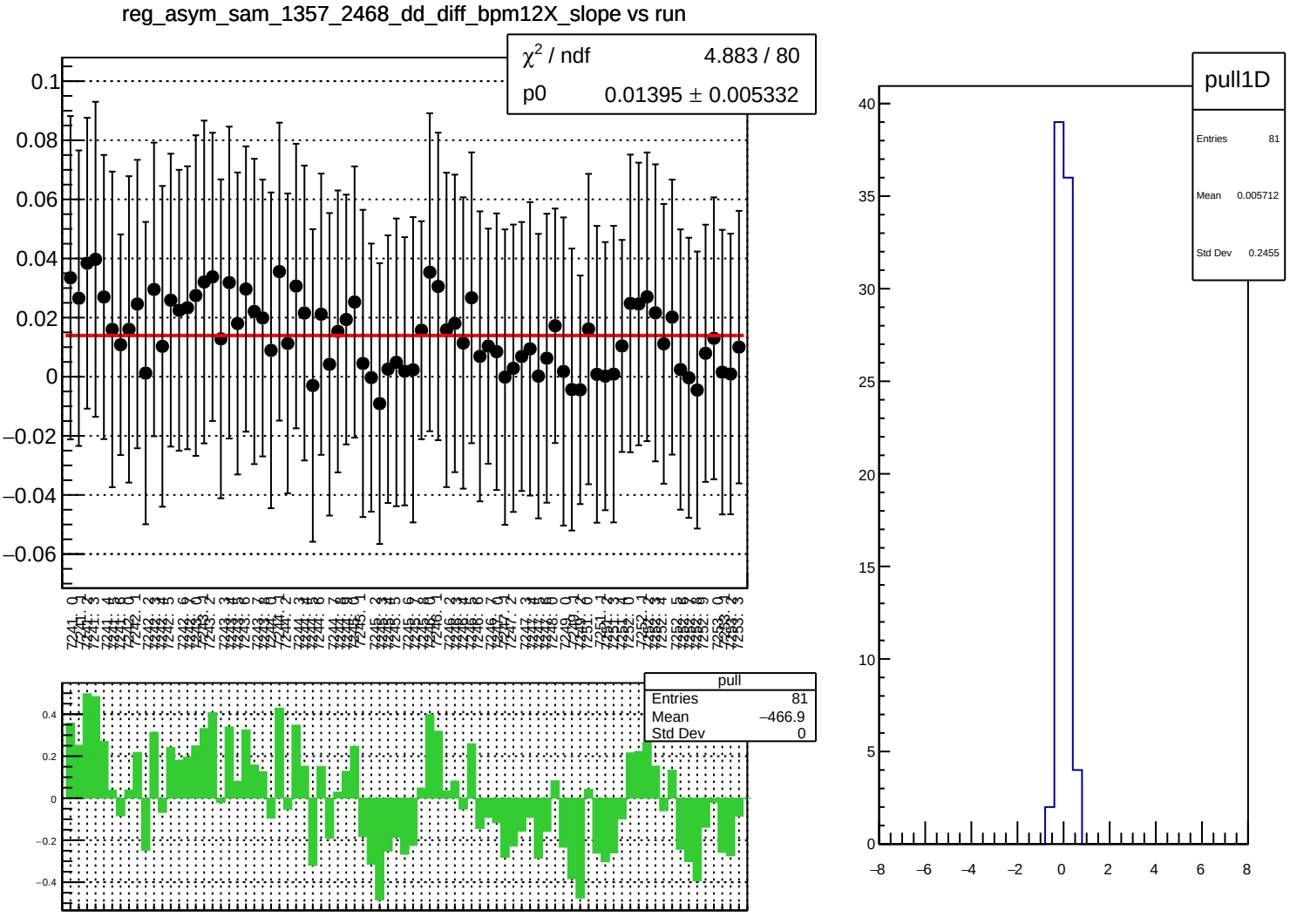

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.473 / 80
p0 1.292 ± 0.1103
pull
Entries 81
Mean −246.5
Std Dev 0
pull1D
Entries 81
Mean −0.007814
Std Dev 0.1746

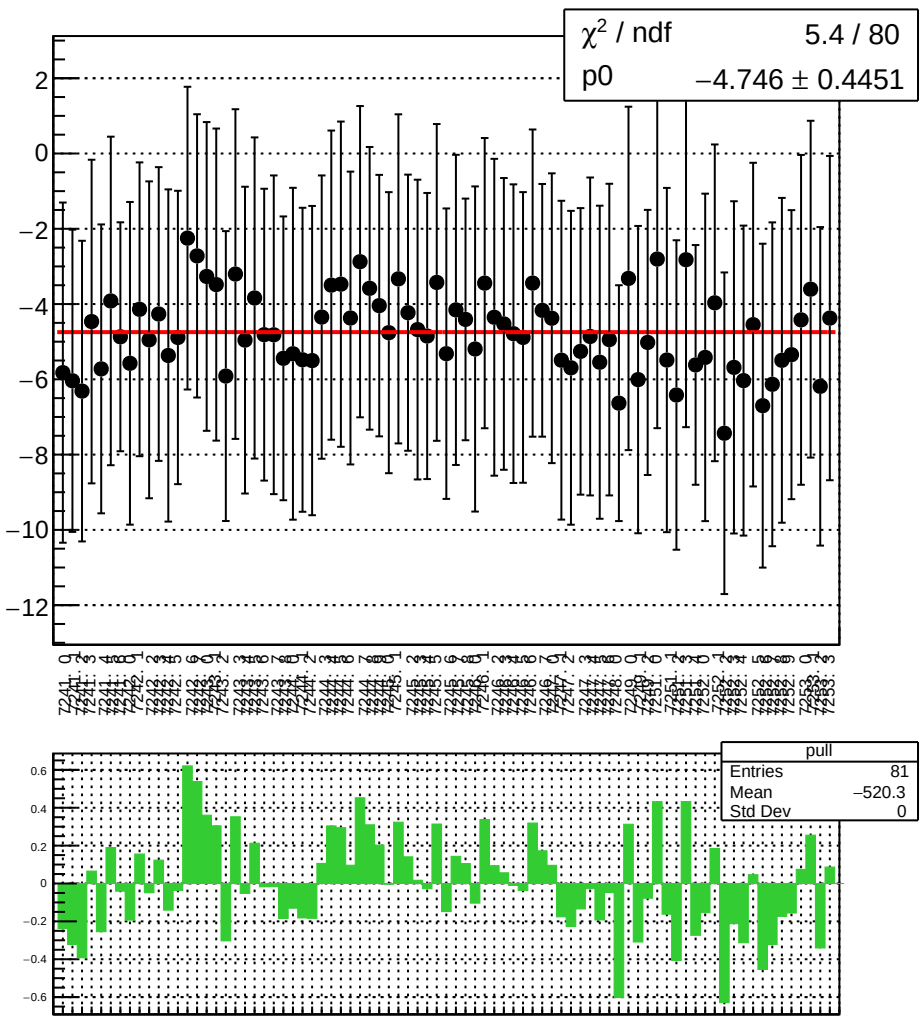

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.64 / 80
p0 14.69 ± 0.1509
pull
Entries 81
Mean −504.9
Std Dev 0

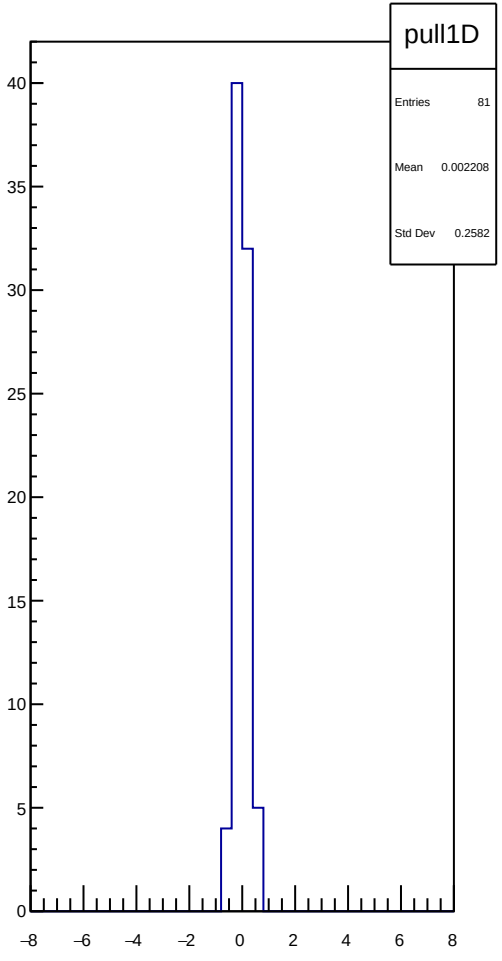

pull1D
Entries 81
Mean 0.007635
Std Dev 0.3623

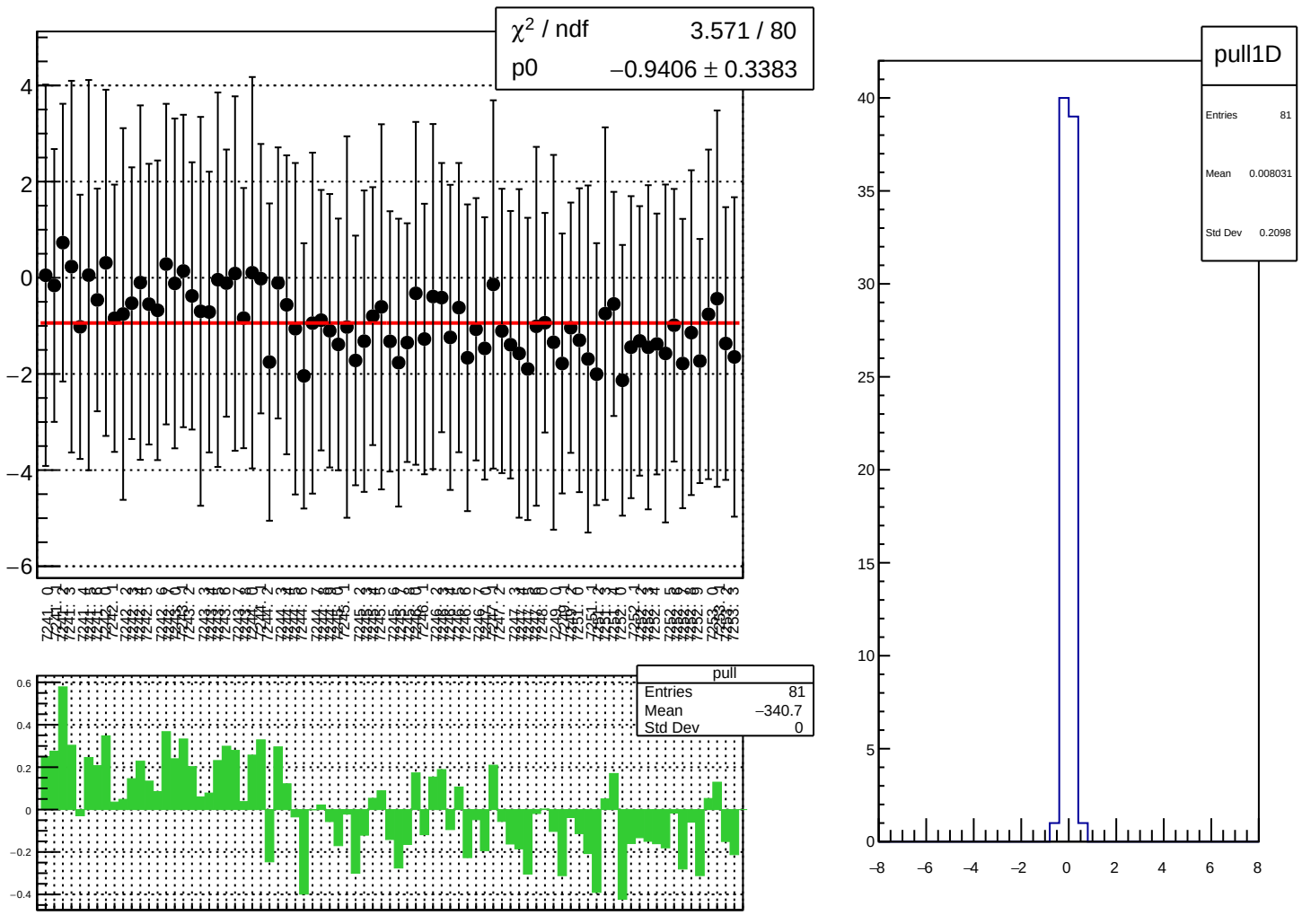

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.735 / 80
p0 −7.999 ± 0.1188
pull
Entries 81
Mean −134.2
Std Dev 0

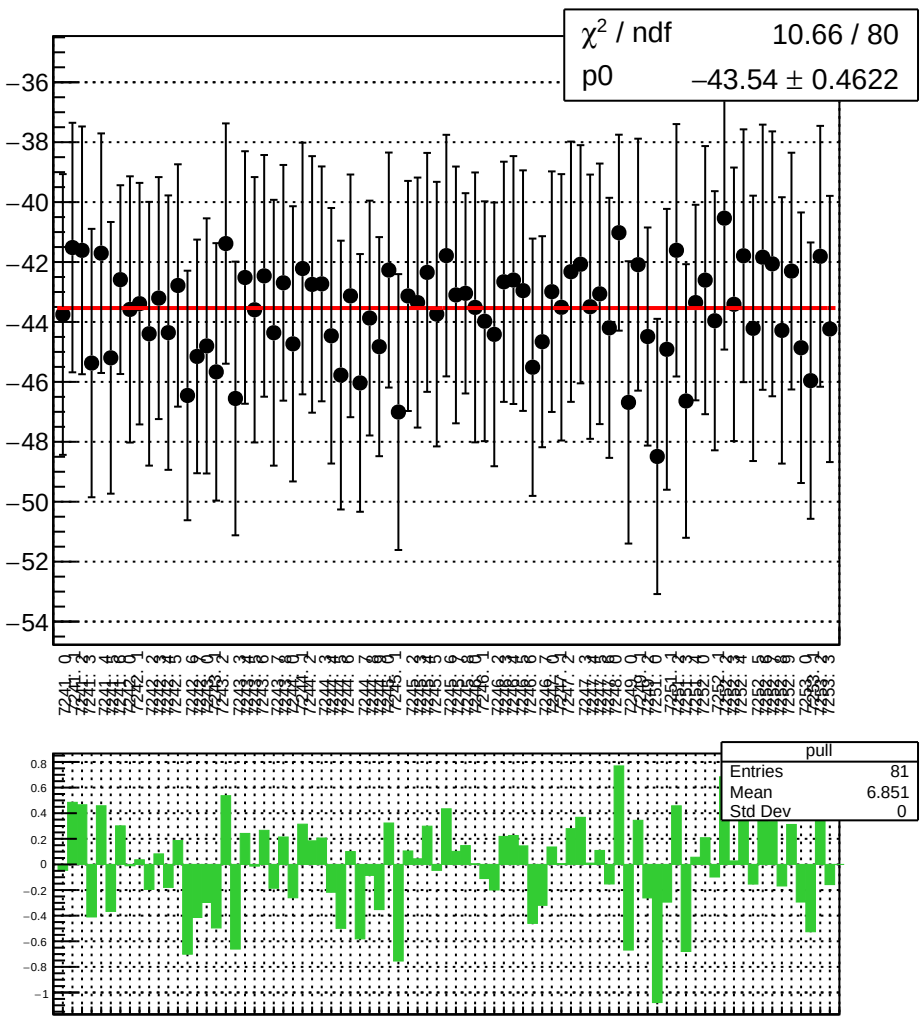

pull1D
Entries 81
Mean 0.008546
Std Dev 0.1836

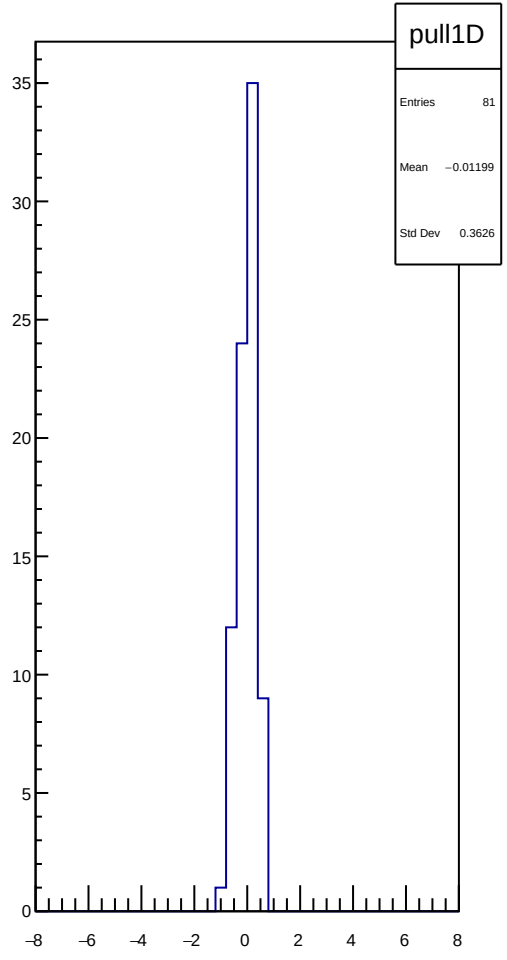

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 4.883 / 80
p0 0.01395 ± 0.005332
pull
Entries 81
Mean −466.9
Std Dev 0
pull1D
Entries 81
Mean 0.005712
Std Dev 0.2455

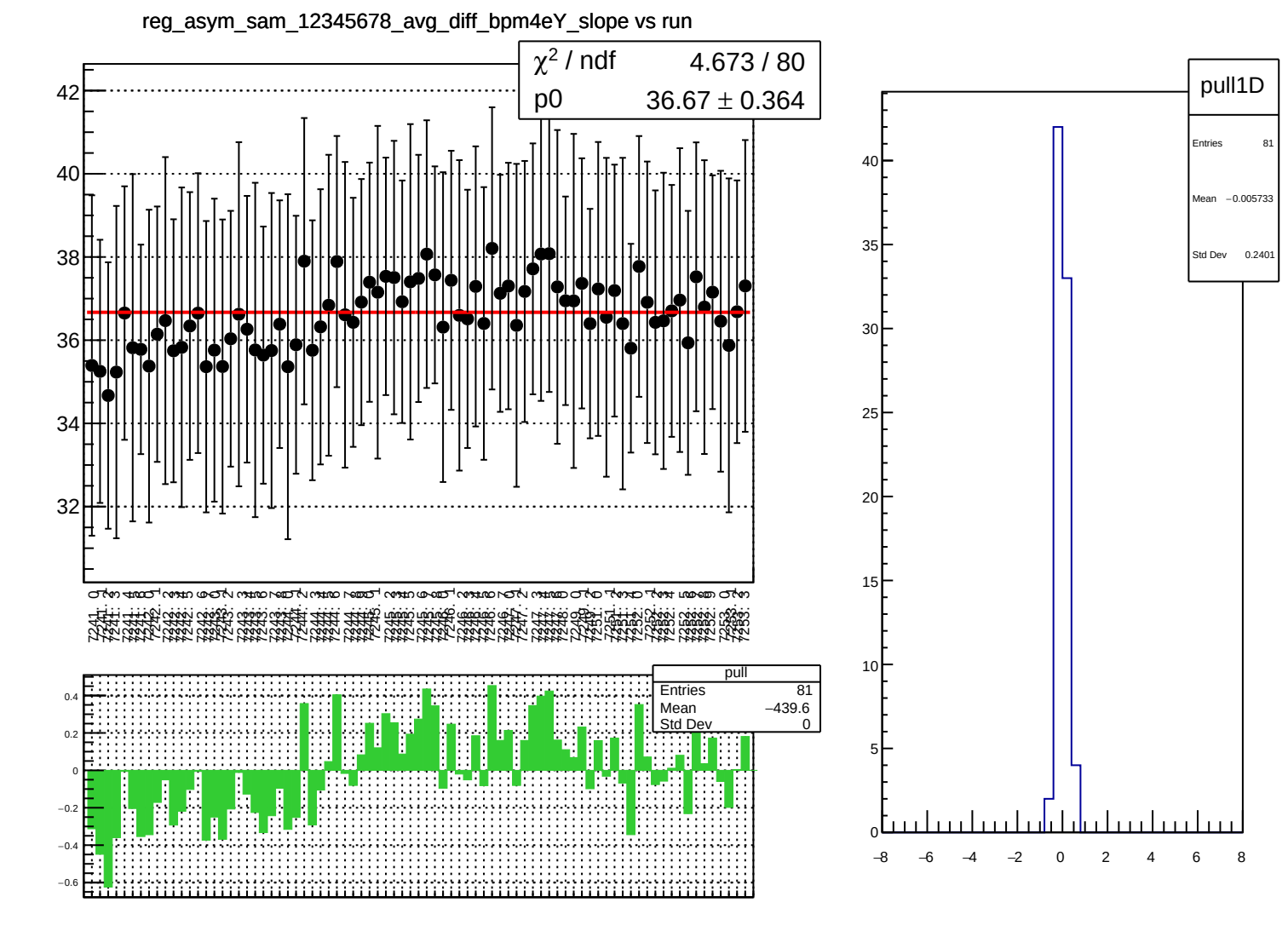

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 5.4 / 80
p0 −4.746 ± 0.4451
pull
Entries 81
Mean −520.3
Std Dev 0

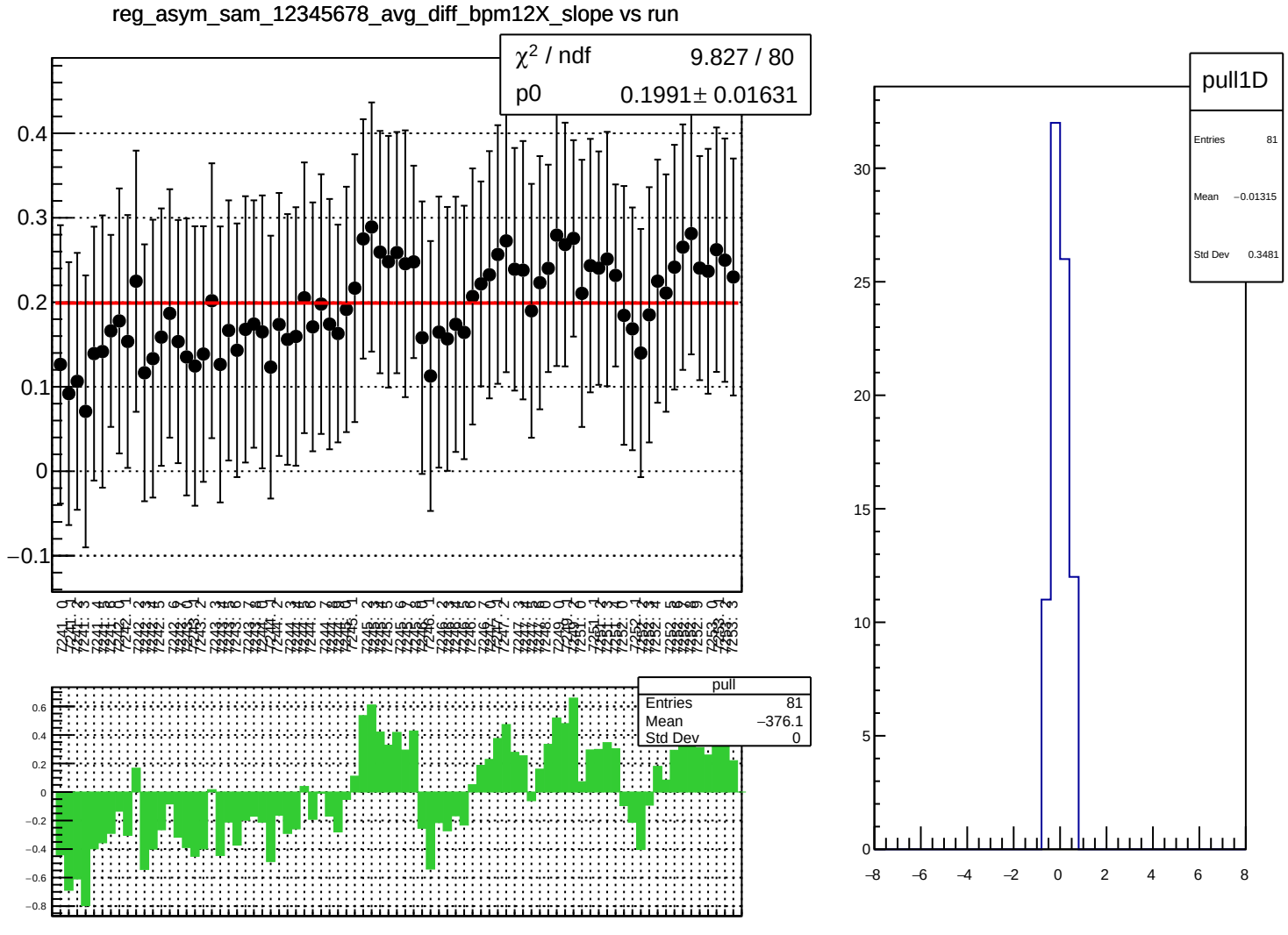

pull1D
Entries 81
Mean 0.002208
Std Dev 0.2582

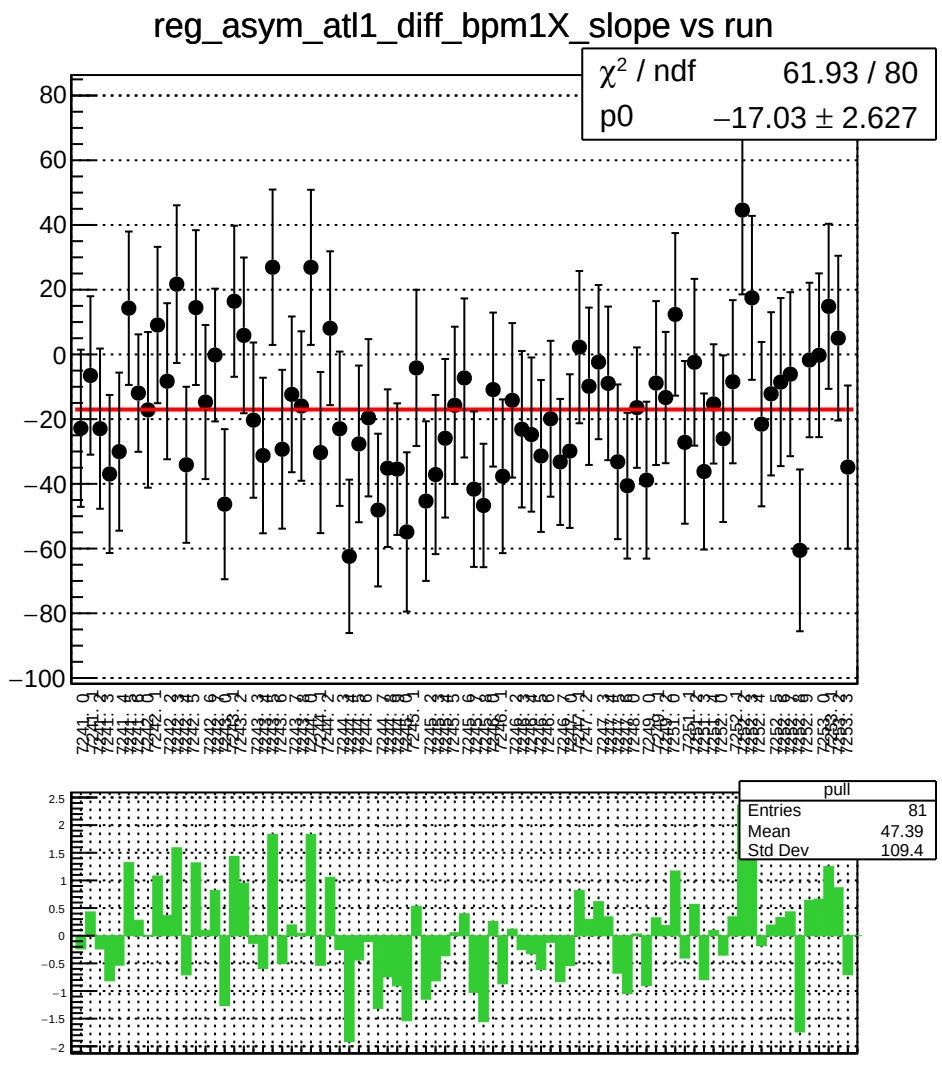

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.571 / 80
p0 −0.9406 ± 0.3383
pull
Entries 81
Mean −340.7
Std Dev 0
pull1D
Entries 81
Mean 0.008031
Std Dev 0.2098

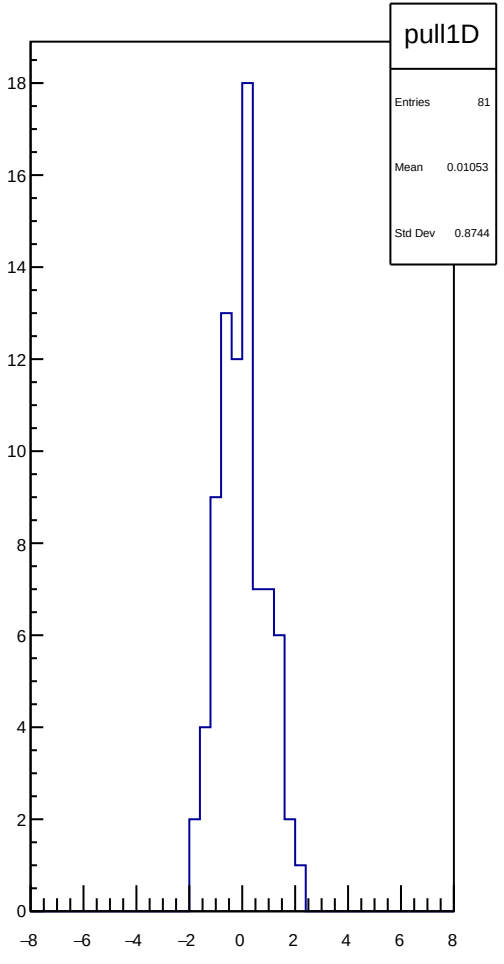

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.66 / 80
p0 −43.54 ± 0.4622
pull
Entries 81
Mean 6.851
Std Dev 0

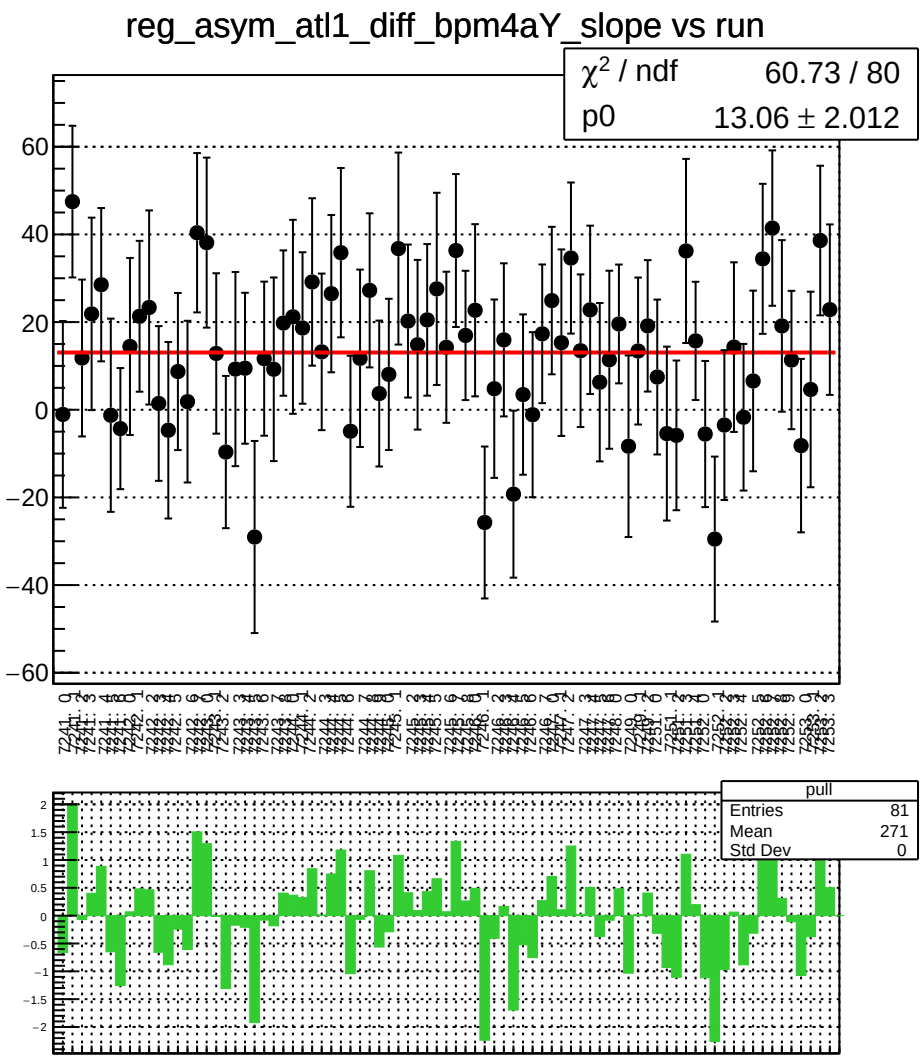

pull1D
Entries 81
Mean −0.01199
Std Dev 0.3626

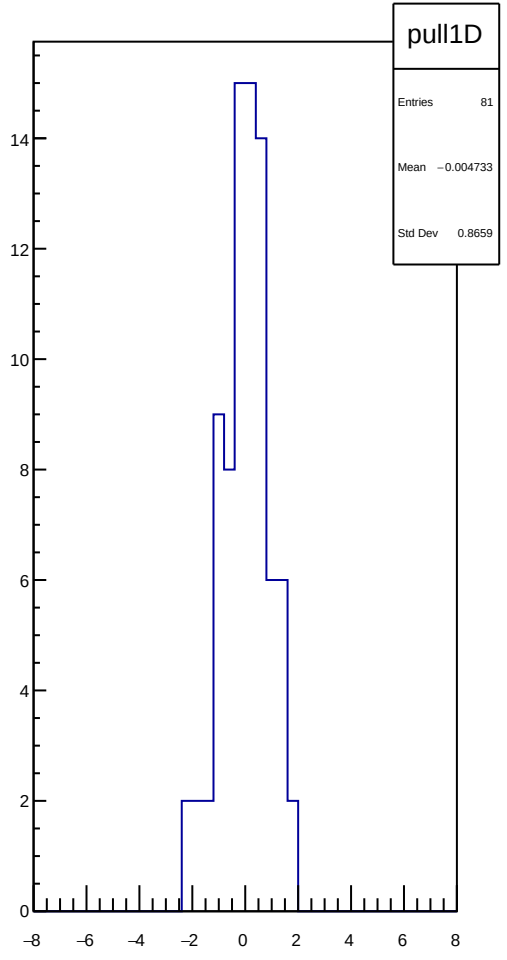

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.673 / 80
p0 36.67 ± 0.364
pull
Entries 81
Mean −439.6
Std Dev 0
pull1D
Entries 81
Mean −0.005733
Std Dev 0.2401

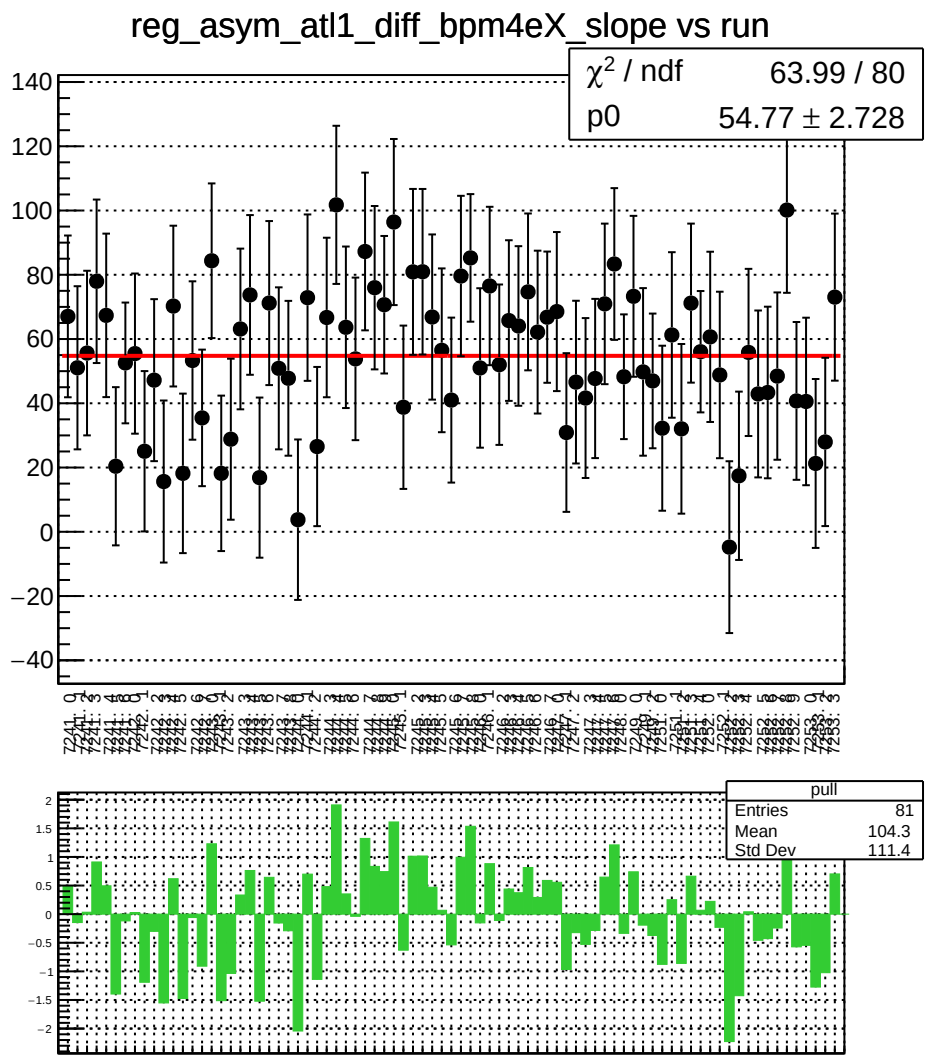

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 9.827 / 80
p0 0.1991± 0.01631
pull
Entries 81
Mean −376.1
Std Dev 0
pull1D
Entries 81
Mean −0.01315
Std Dev 0.3481

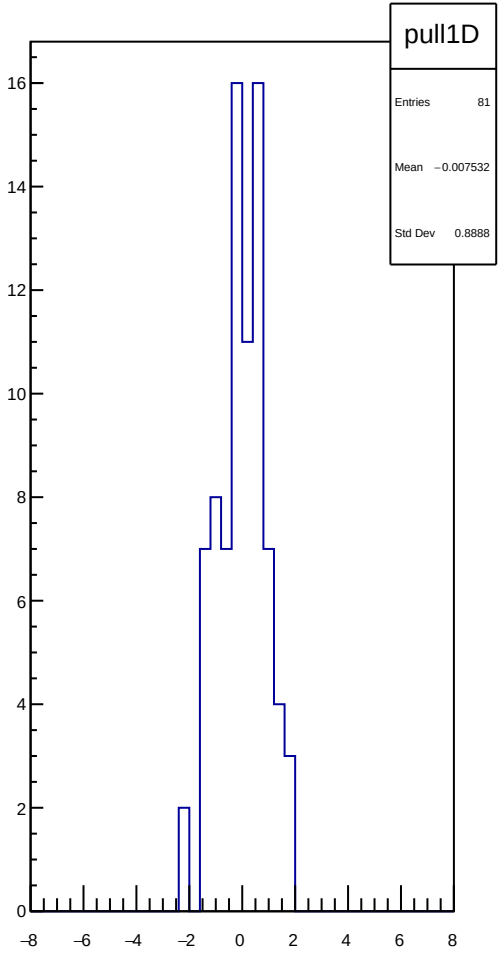

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 61.93 / 80
p0 −17.03 ± 2.627
pull
Entries 81
Mean 47.39
Std Dev 109.4

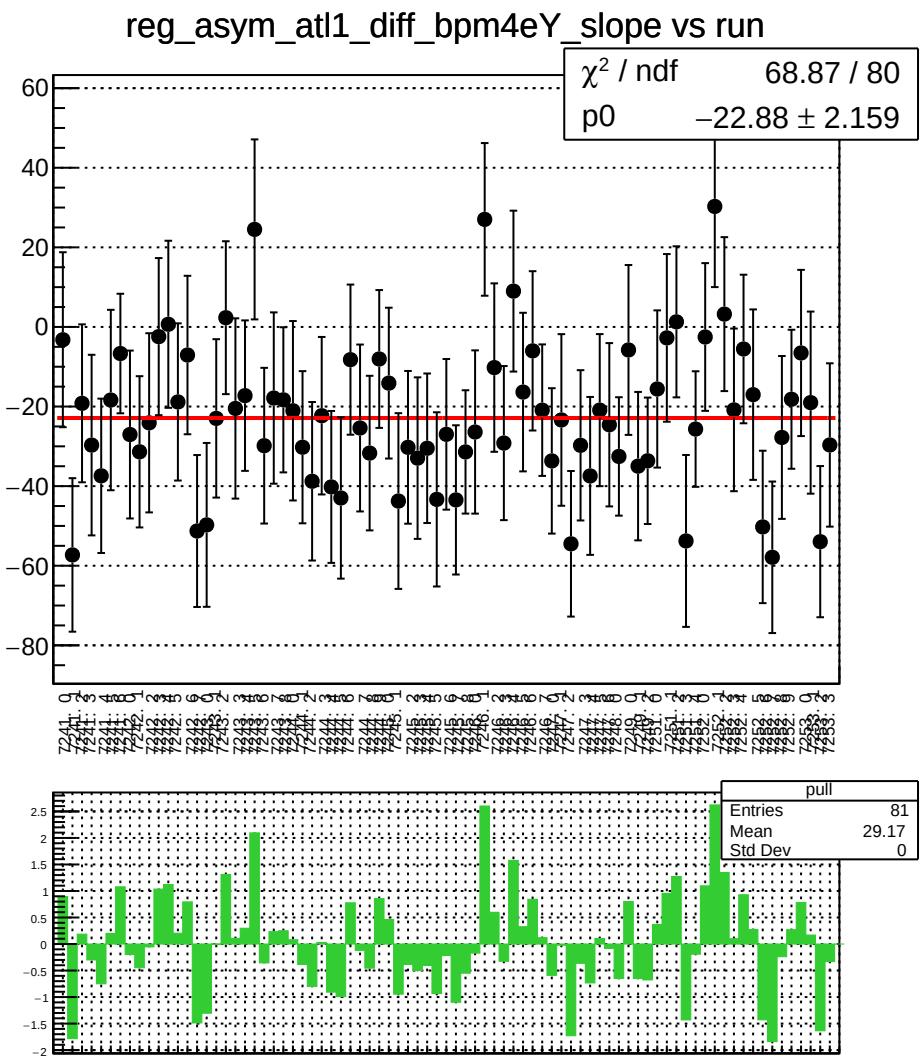

pull1D
Entries 81
Mean 0.01053
Std Dev 0.8744

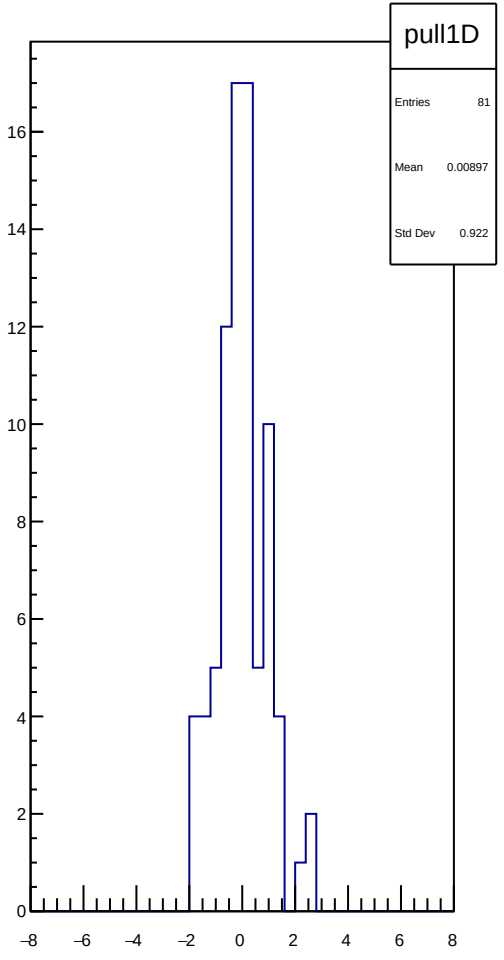

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 60.73 / 80
p0 13.06 ± 2.012
pull
Entries 81
Mean 271
Std Dev 0

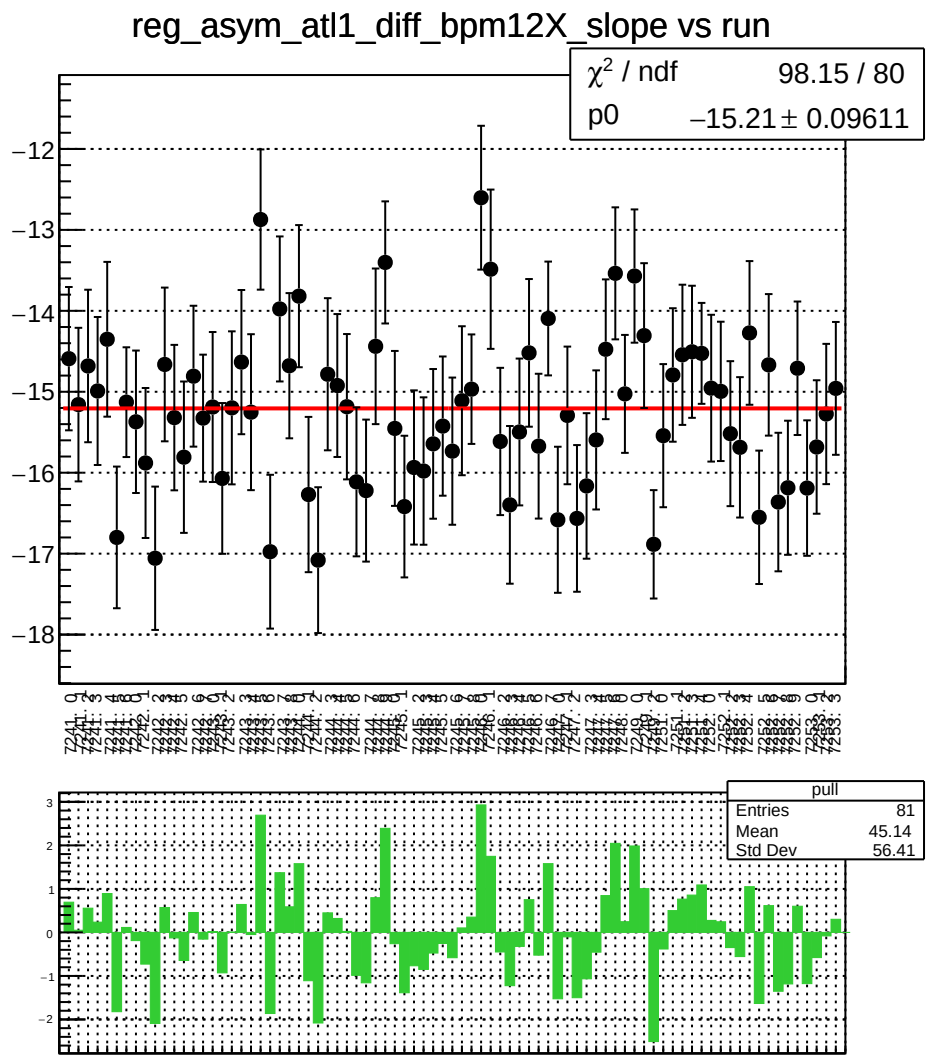

pull1D
Entries 81
Mean −0.004733
Std Dev 0.8659

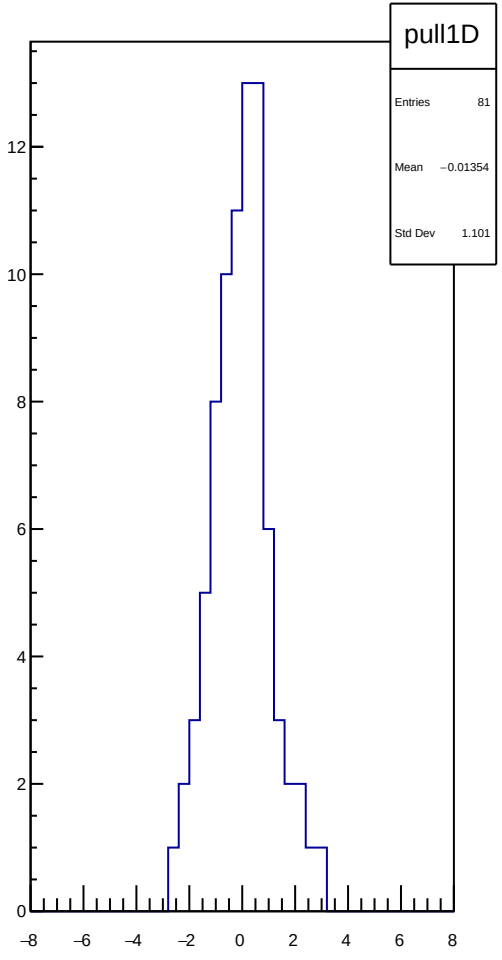

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 63.99 / 80
p0 54.77 ± 2.728
pull
Entries 81
Mean 104.3
Std Dev 111.4

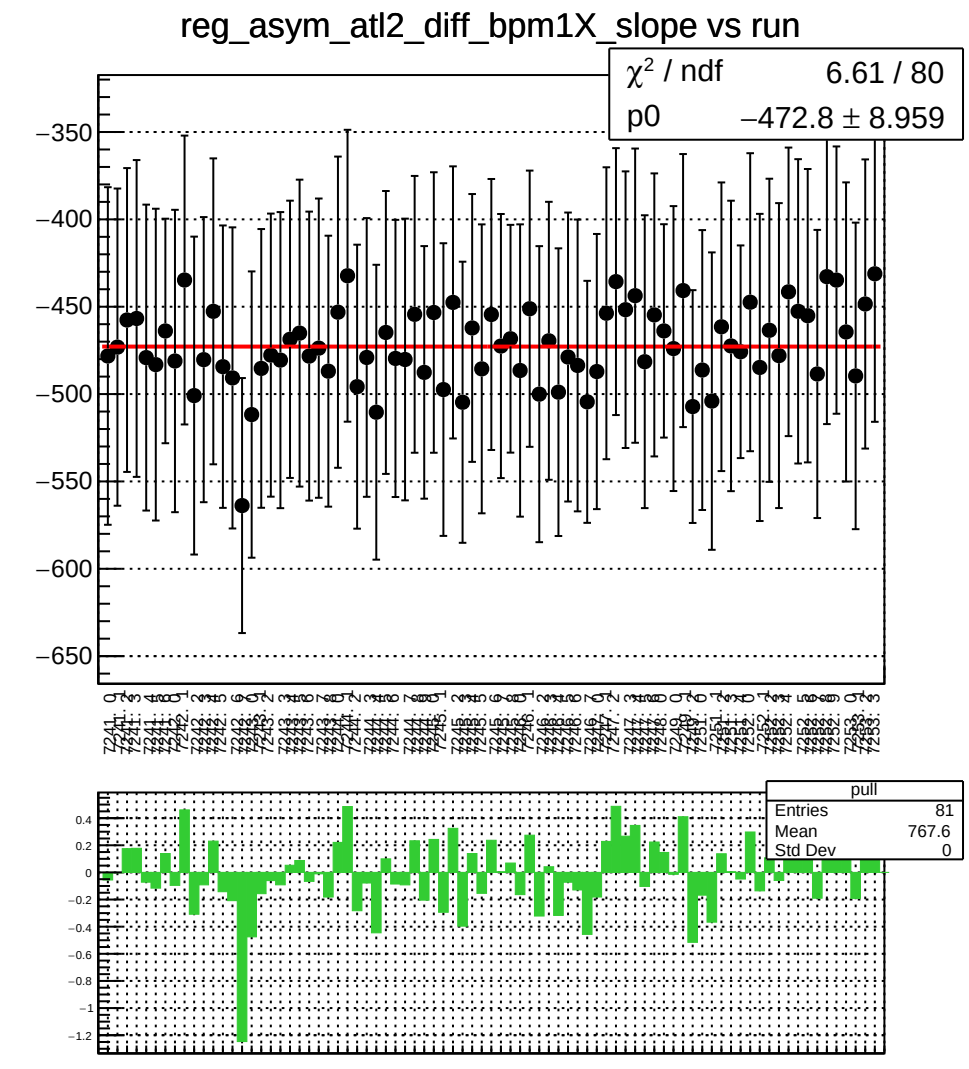

pull1D
Entries 81
Mean −0.007532
Std Dev 0.8888

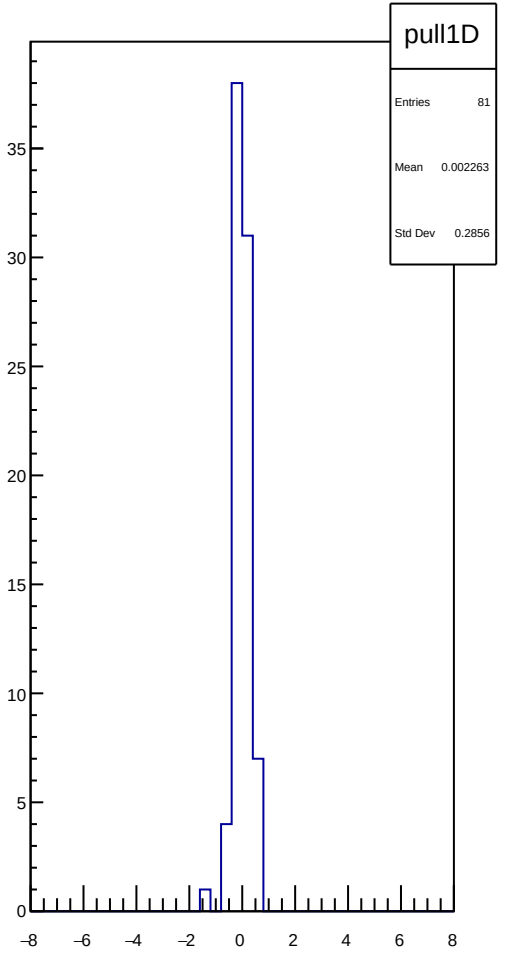

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 68.87 / 80
p0 −22.88 ± 2.159
pull
Entries 81
Mean 29.17
Std Dev 0

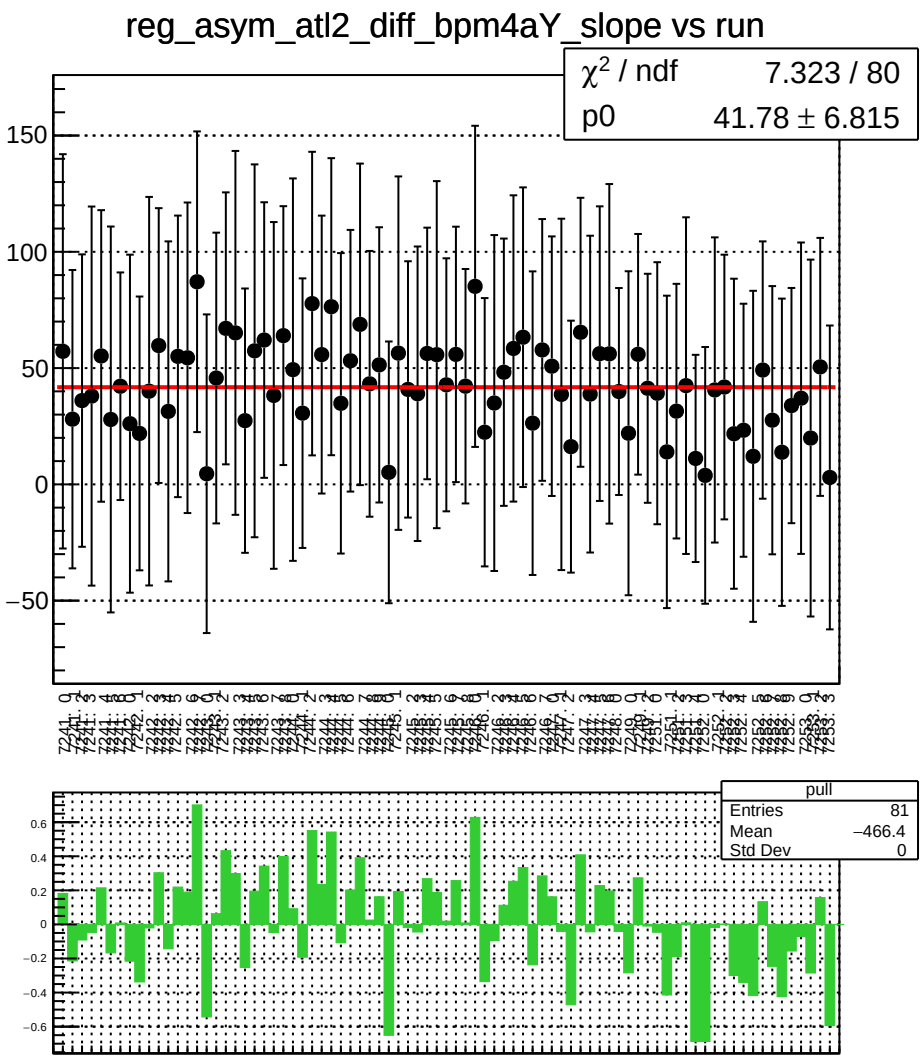

pull1D
Entries 81
Mean 0.00897
Std Dev 0.922

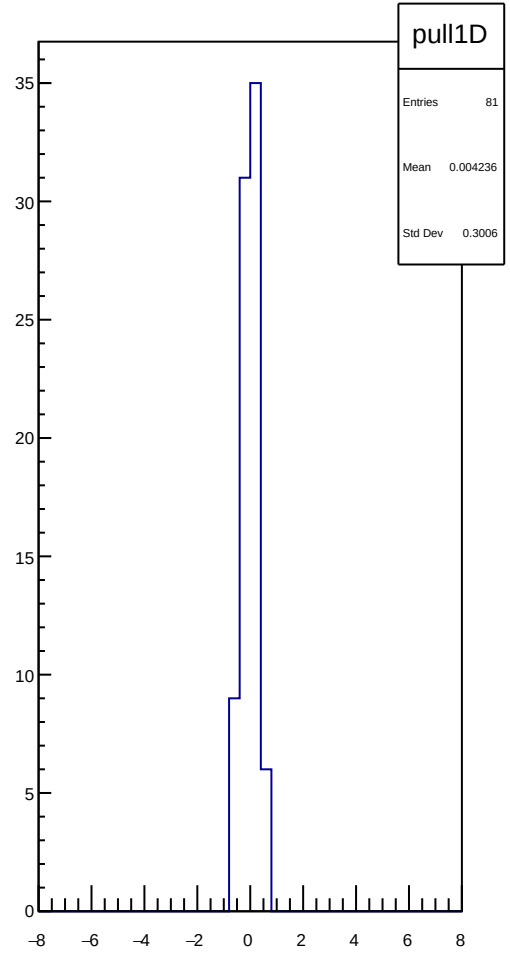

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 98.15 / 80
p0 −15.21 ± 0.09611
pull
Entries 81
Mean 45.14
Std Dev 56.41

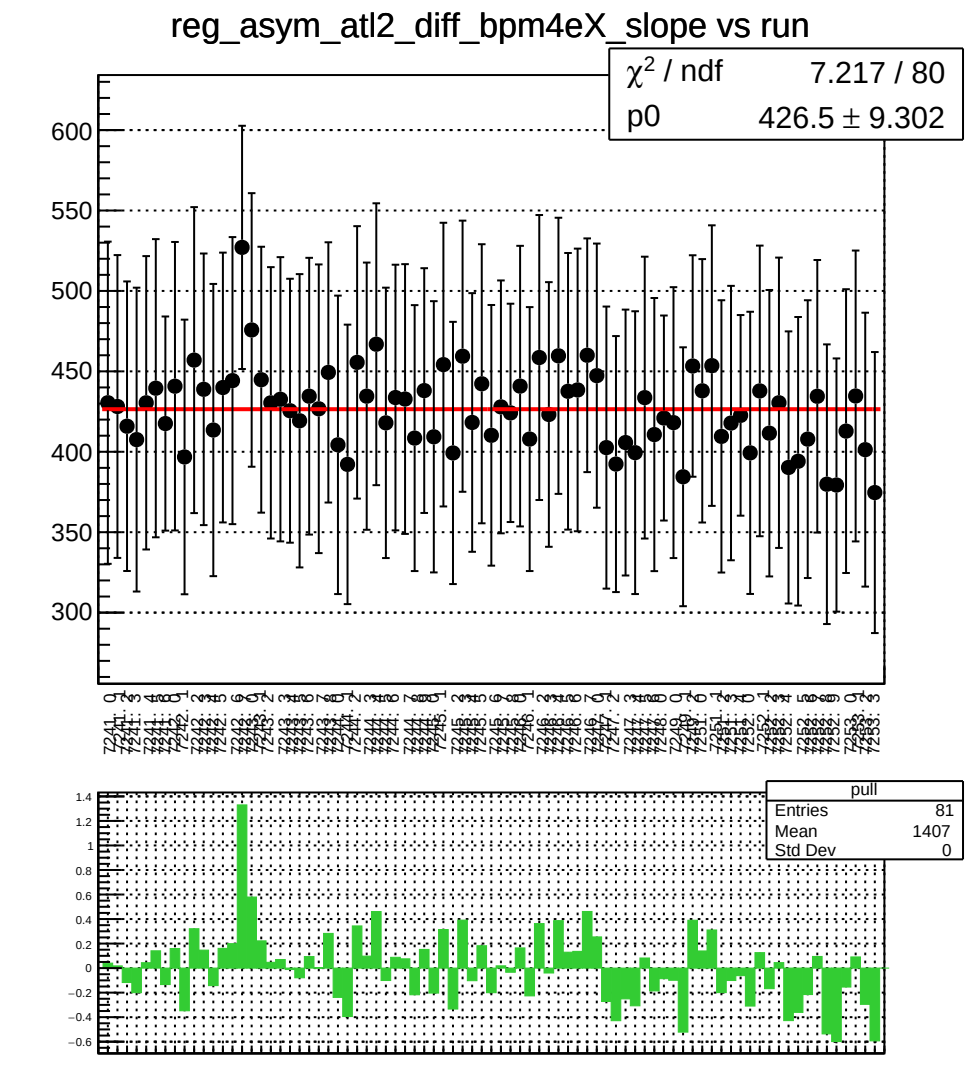

pull1D
Entries 81
Mean −0.01354
Std Dev 1.101

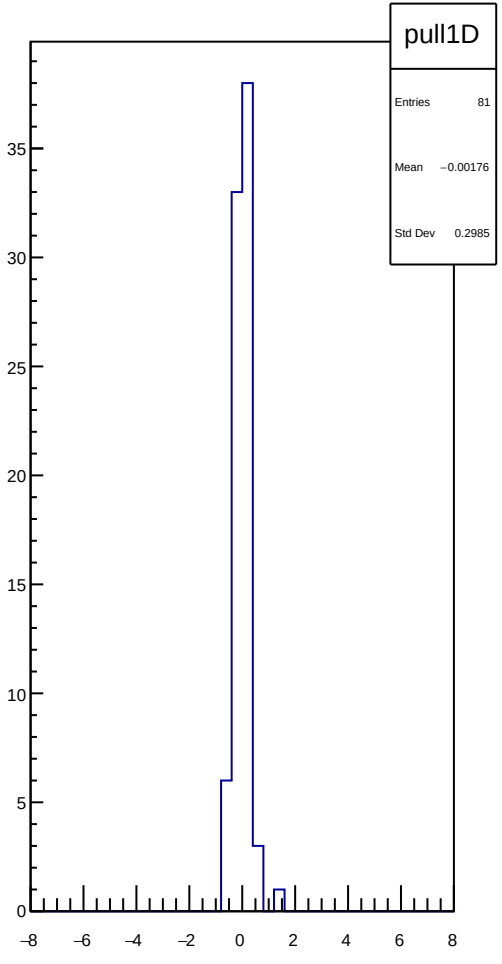

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 6.61 / 80
p0 −472.8 ± 8.959
−350
−400
−450
−500
−550
−600
−650
pull
Entries 81
Mean 767.6
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

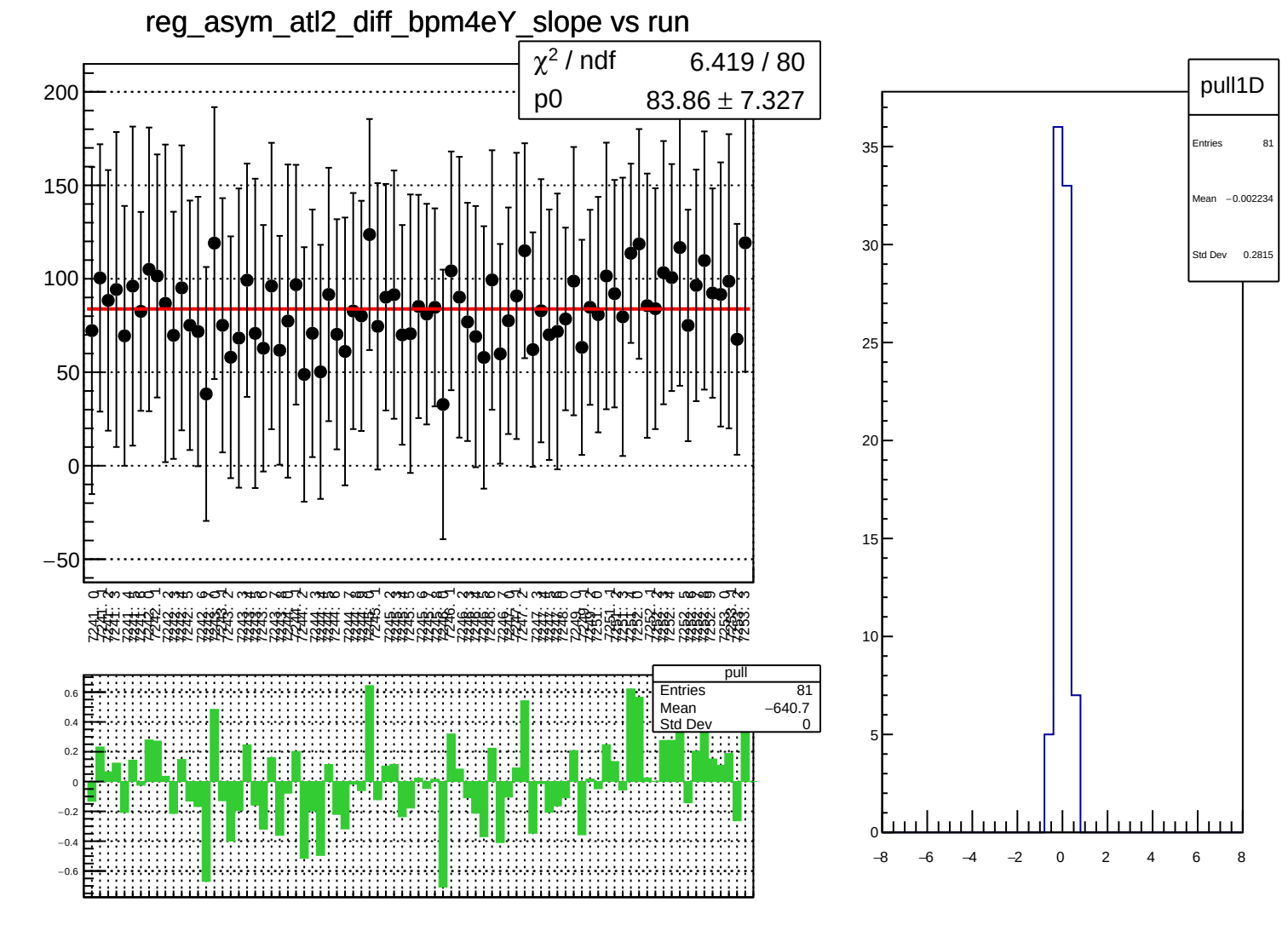

pull1D
Entries 81
Mean 0.002263
Std Dev 0.2856
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

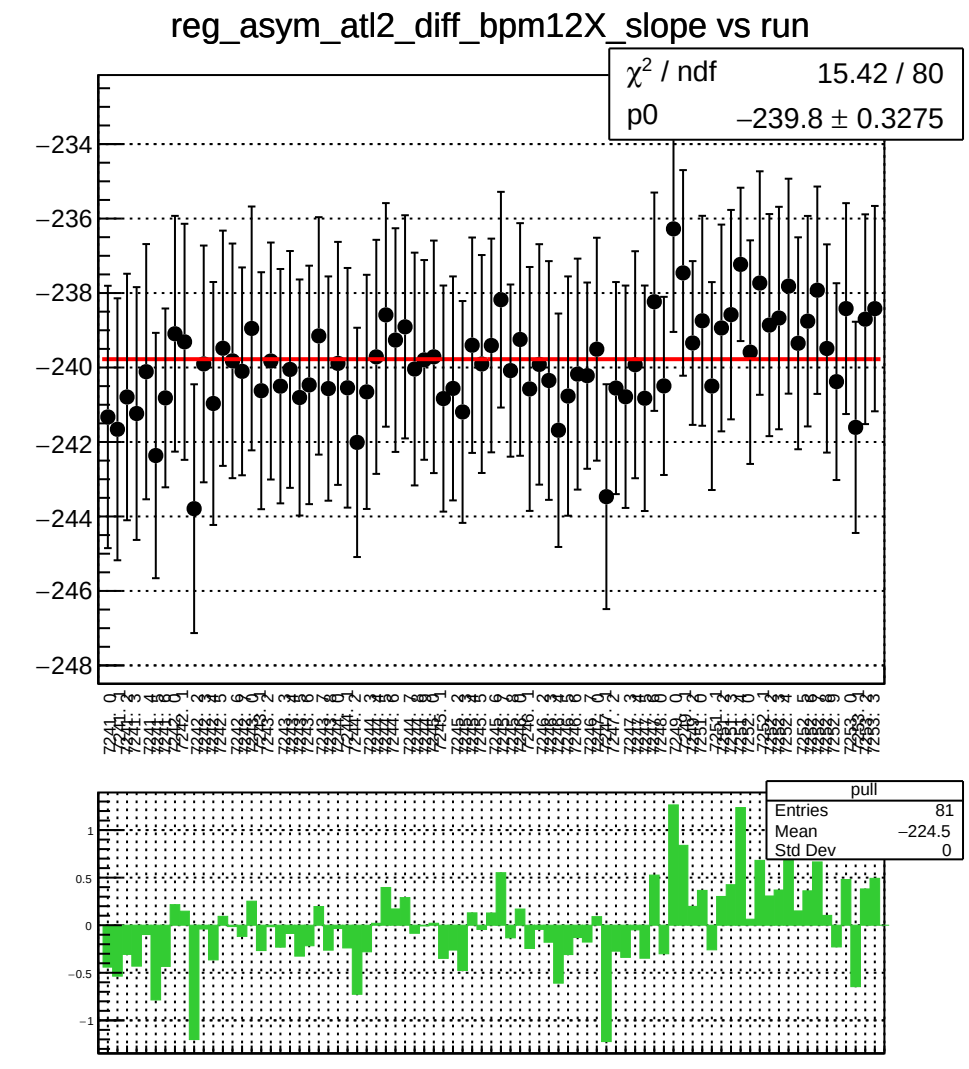

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 7.323 / 80
p0 41.78 ± 6.815
150
100
50
0
−50
pull
Entries 81
Mean −466.4
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

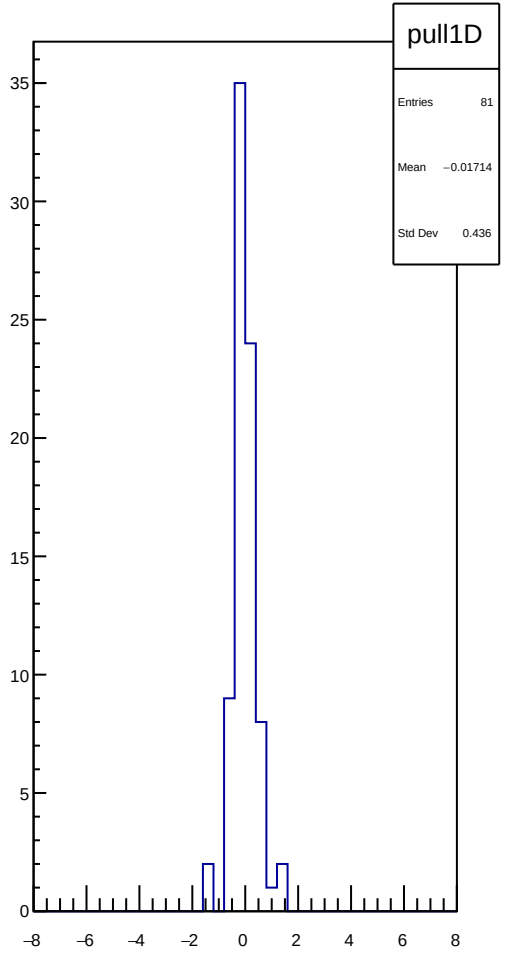

pull1D
Entries 81
Mean 0.004236
Std Dev 0.3006
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

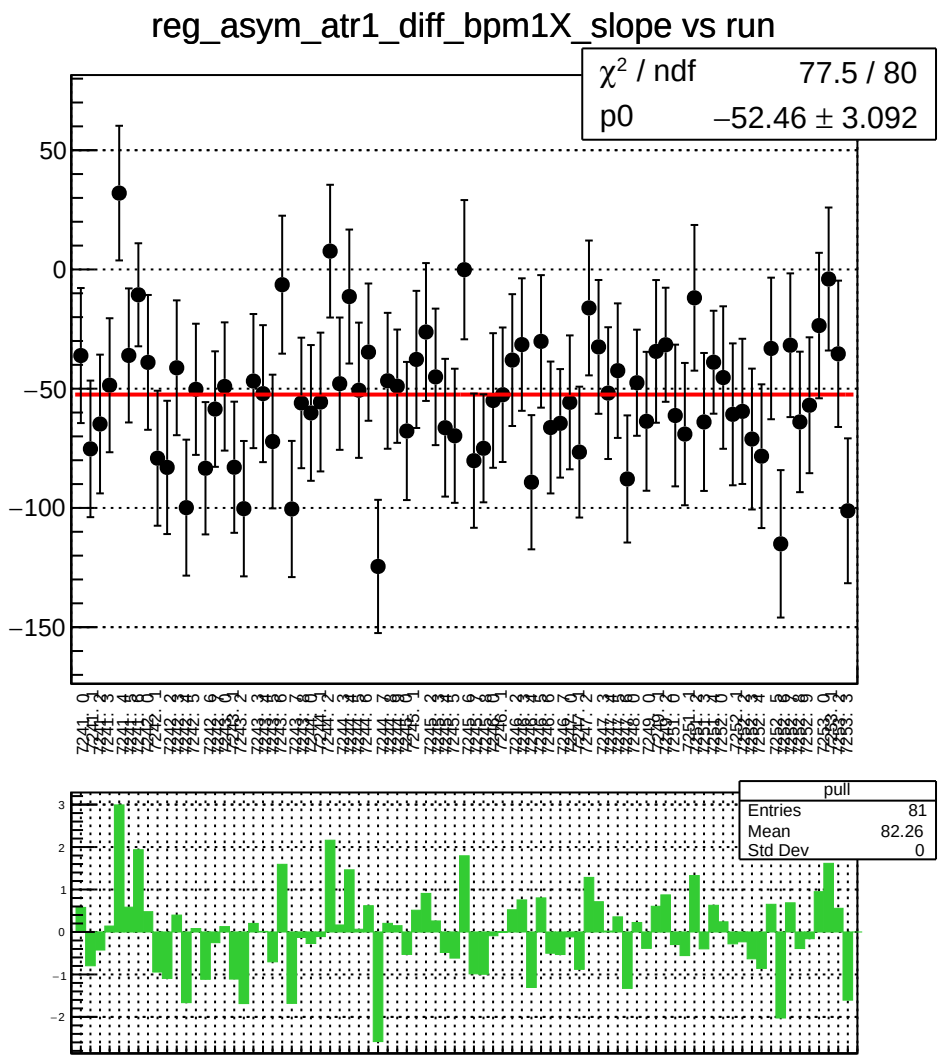

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 7.217 / 80
p0 426.5 ± 9.302
pull
Entries 81
Mean 1407
Std Dev 0

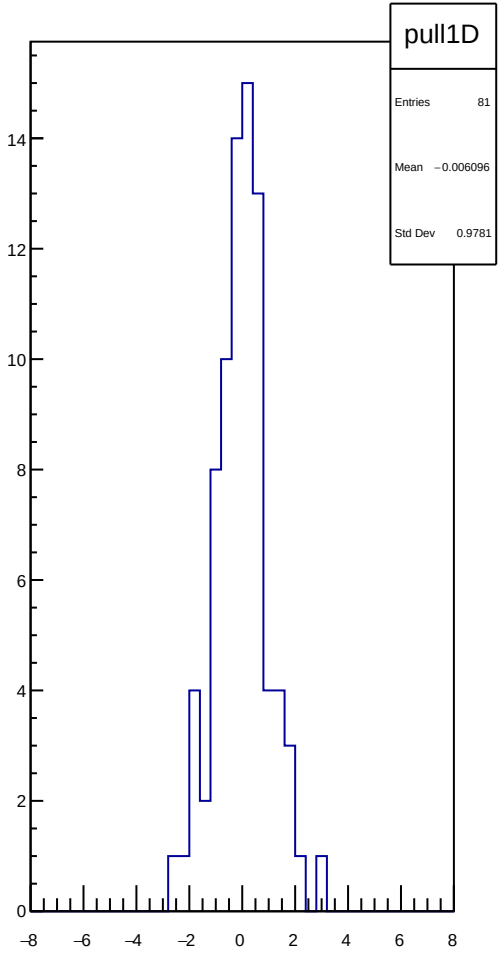

pull1D
Entries 81
Mean −0.00176
Std Dev 0.2985

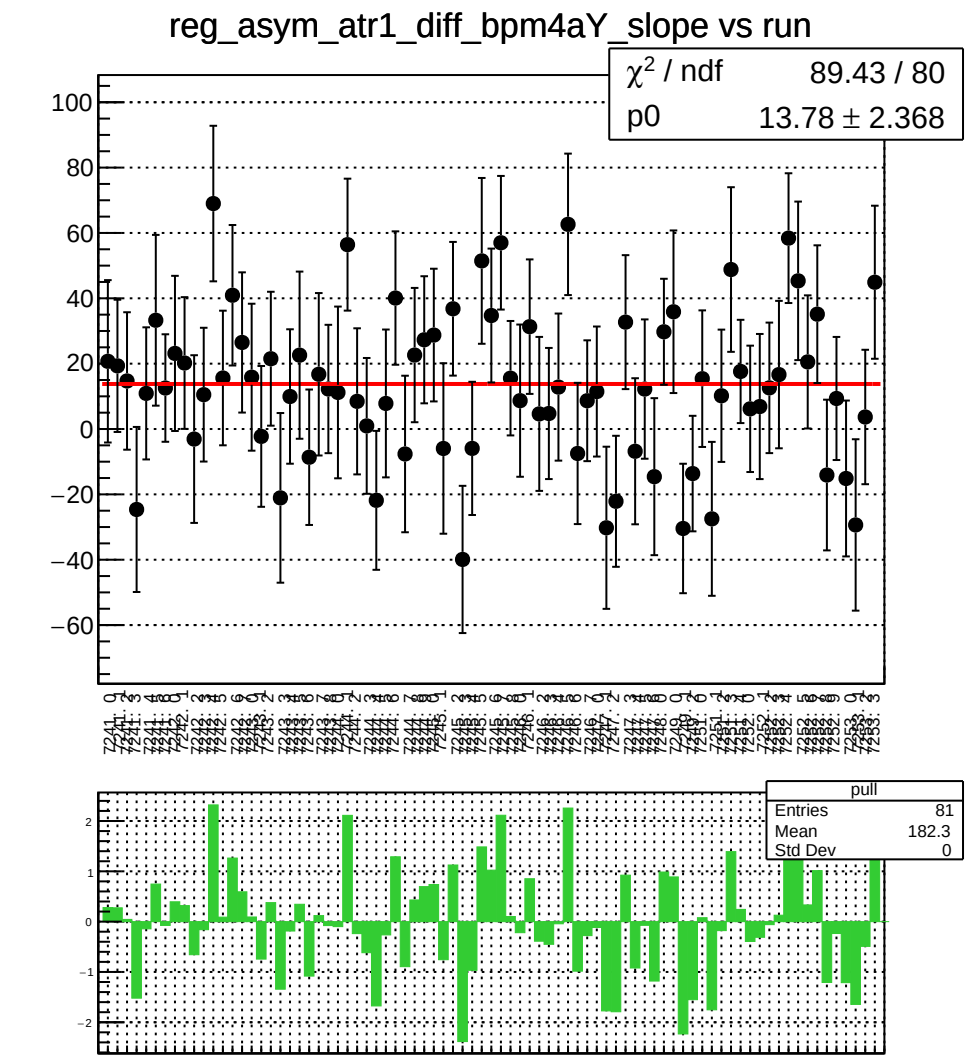

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 6.419 / 80
p0 83.86 ± 7.327
pull
Entries 81
Mean −640.7
Std Dev 0
pull1D
Entries 81
Mean −0.002234
Std Dev 0.2815

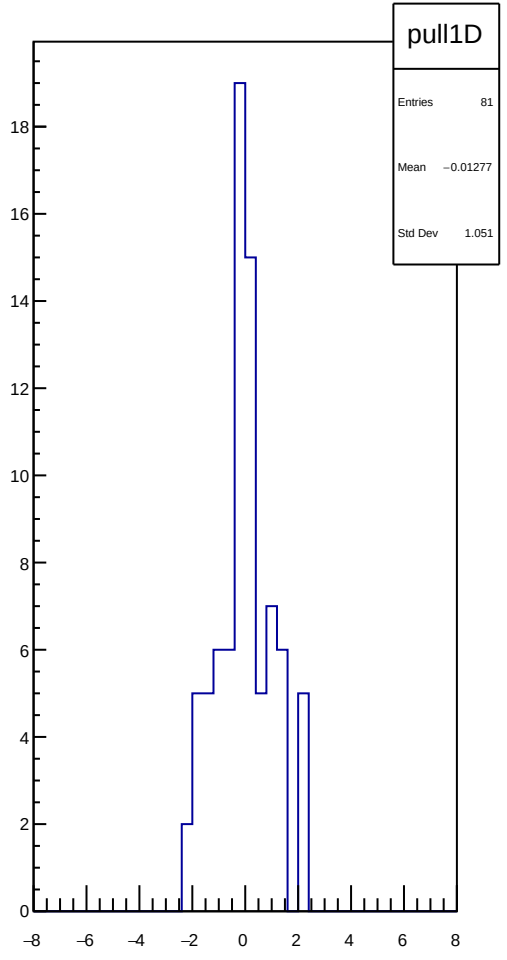

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 15.42 / 80
p0 −239.8 ± 0.3275
pull
Entries 81
Mean −224.5
Std Dev 0

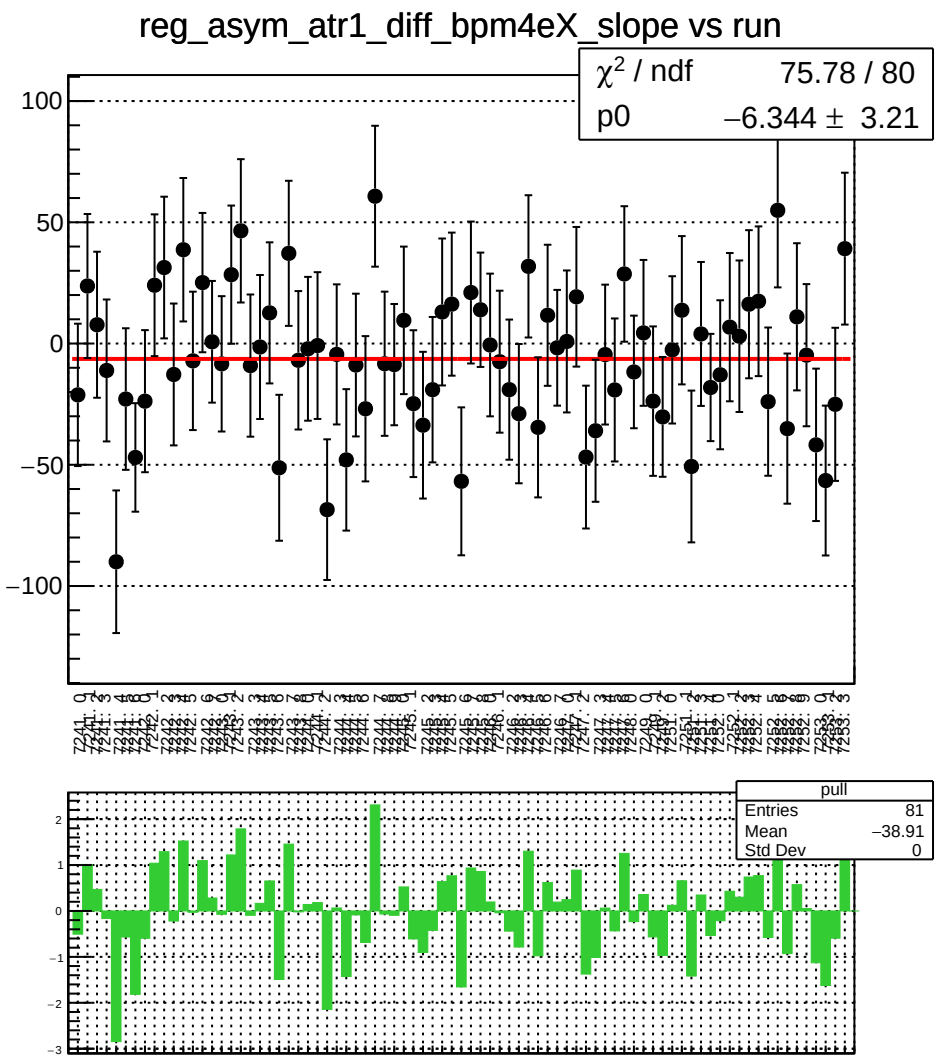

pull1D
Entries 81
Mean −0.01714
Std Dev 0.436

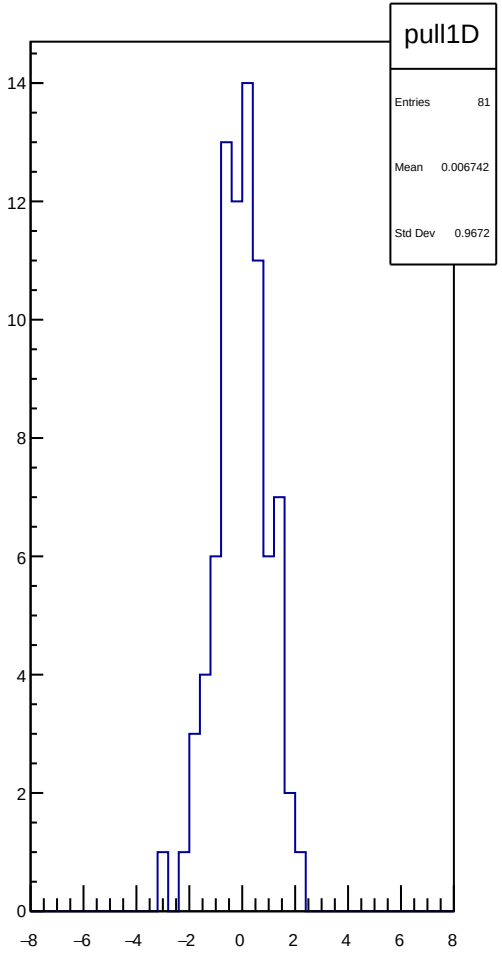

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 77.5 / 80
p0 −52.46 ± 3.092
pull
Entries 81
Mean 82.26
Std Dev 0

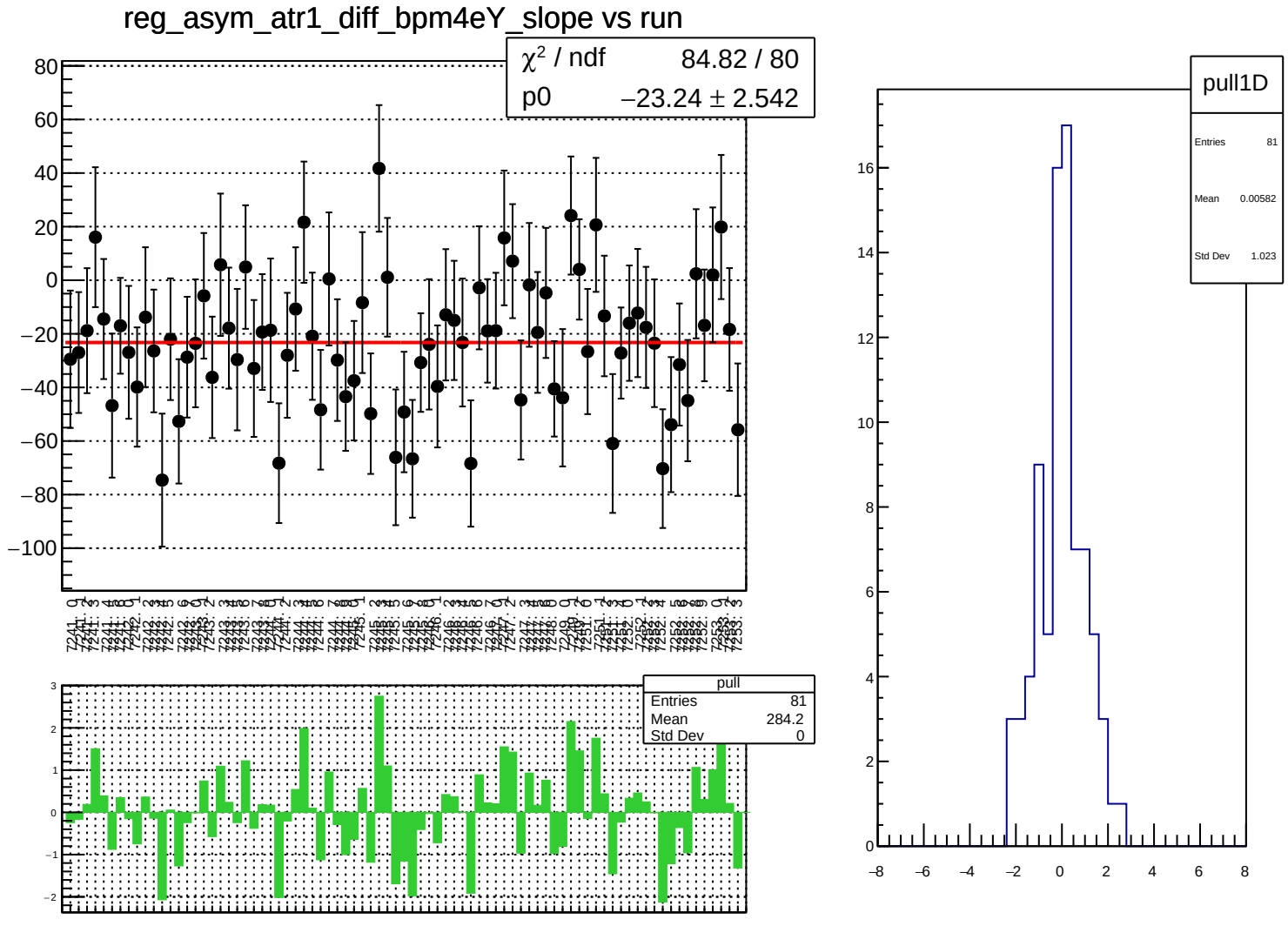

pull1D
Entries 81
Mean −0.006096
Std Dev 0.9781

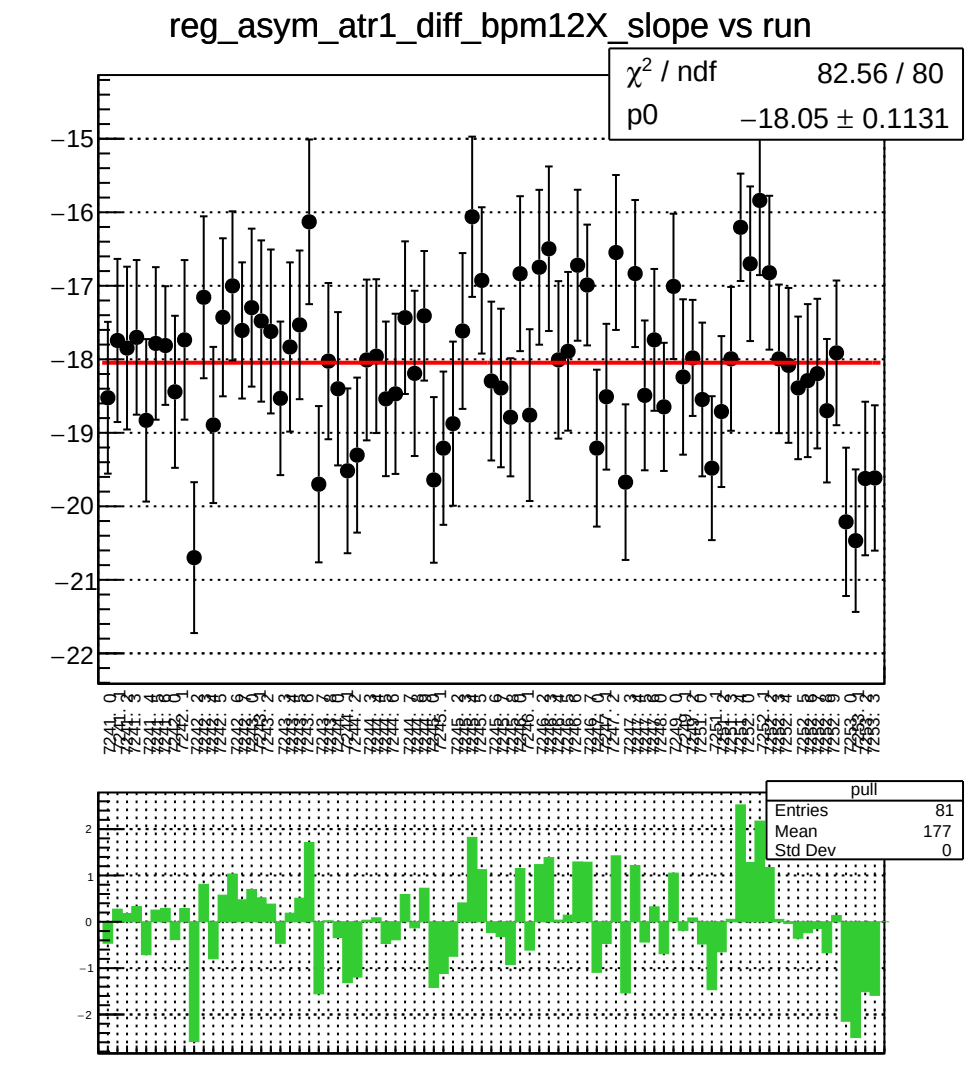

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 89.43 / 80
p0 13.78 ± 2.368
pull
Entries 81
Mean 182.3
Std Dev 0

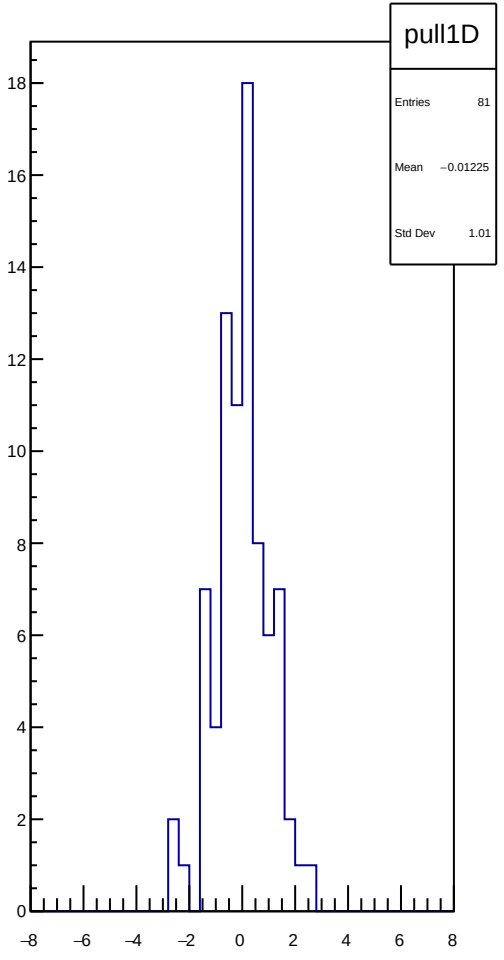

pull1D
Entries 81
Mean −0.01277
Std Dev 1.051

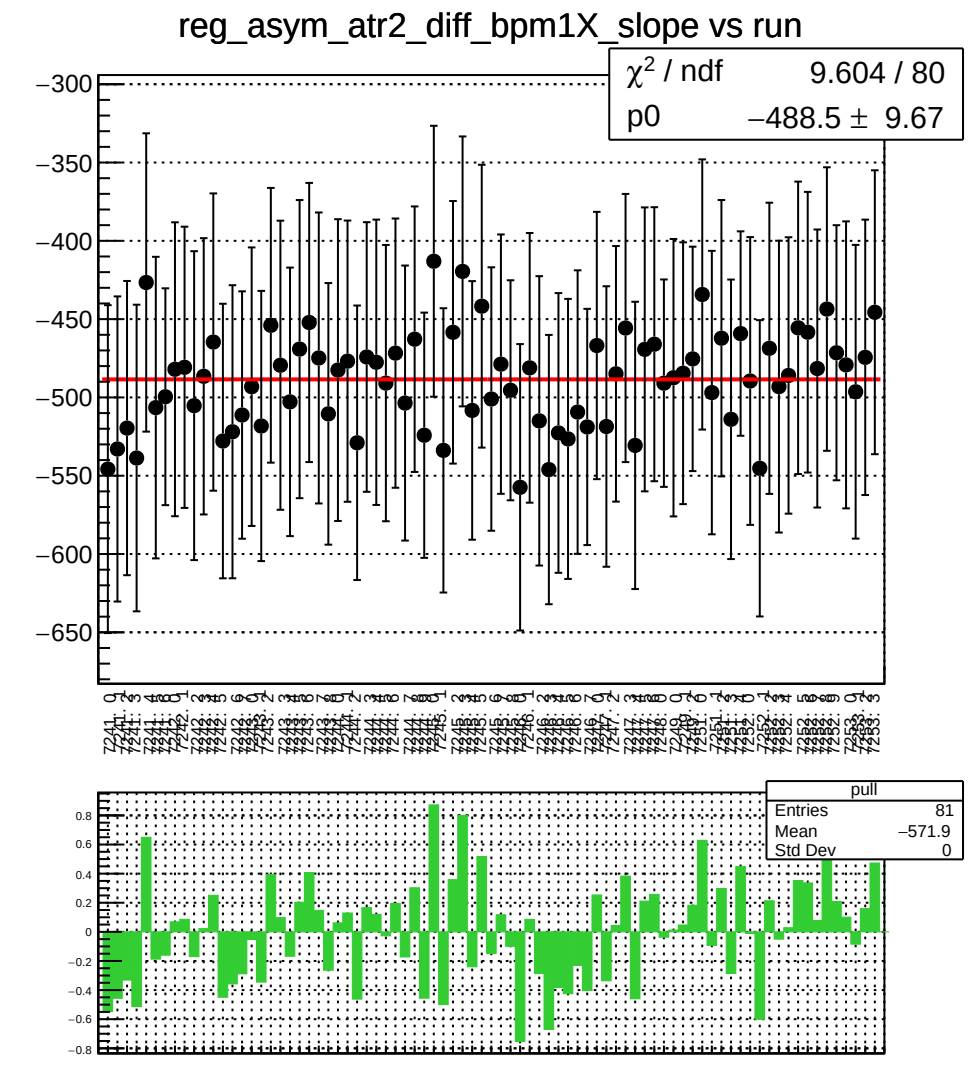

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 75.78 / 80
p0 −6.344 ± 3.21
pull
Entries 81
Mean −38.91
Std Dev 0

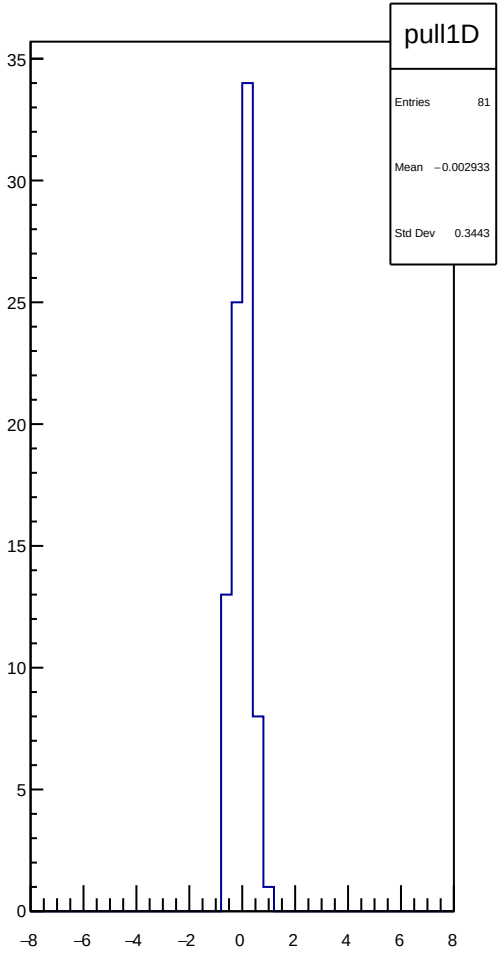

pull1D
Entries 81
Mean 0.006742
Std Dev 0.9672

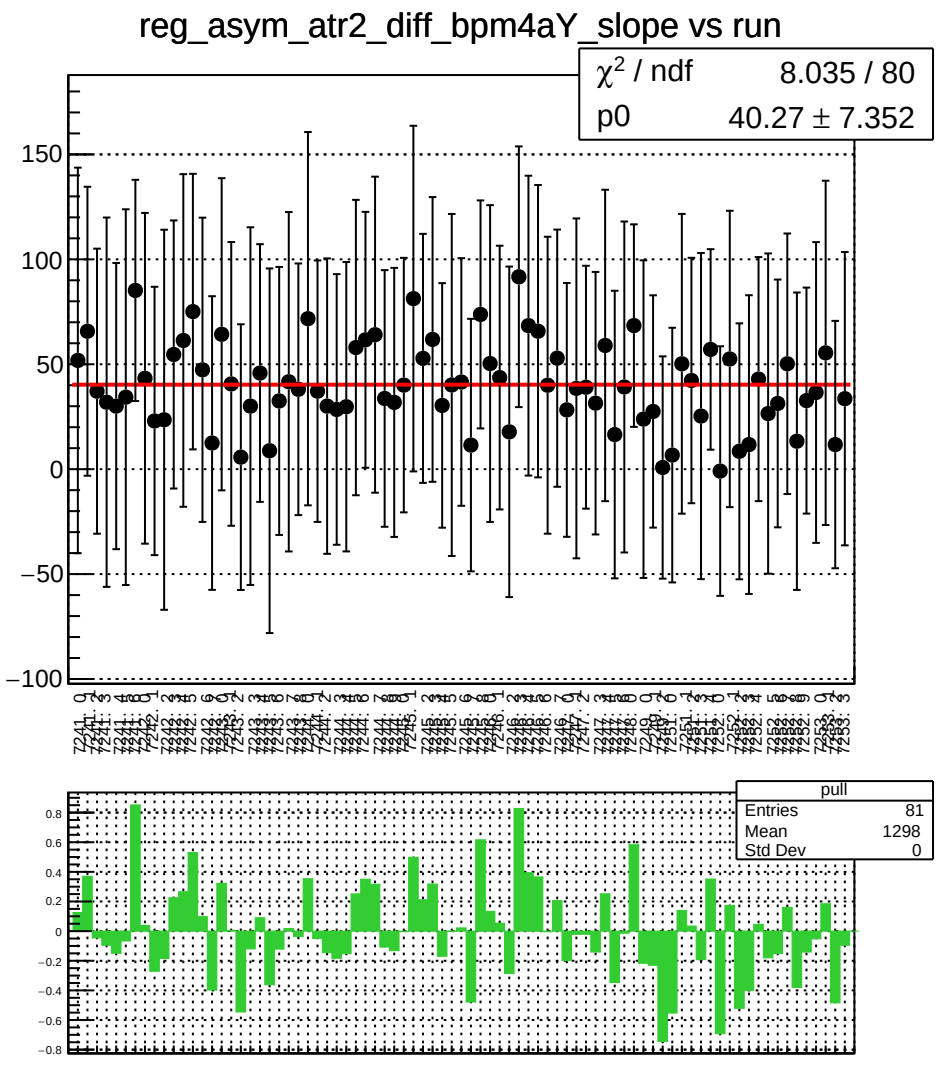

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 84.82 / 80
p0 −23.24 ± 2.542
pull
Entries 81
Mean 284.2
Std Dev 0
pull1D
Entries 81
Mean 0.00582
Std Dev 1.023

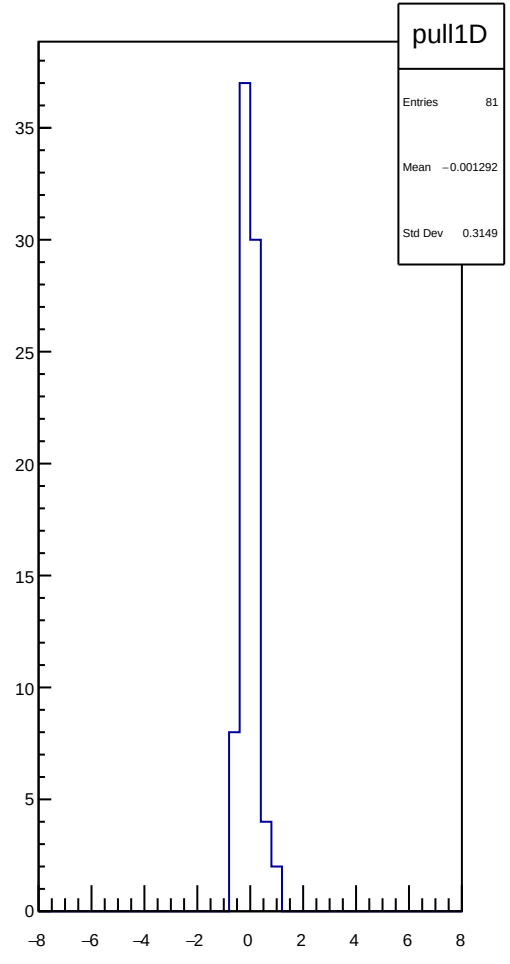

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 82.56 / 80
p0 −18.05 ± 0.1131
pull
Entries 81
Mean 177
Std Dev 0

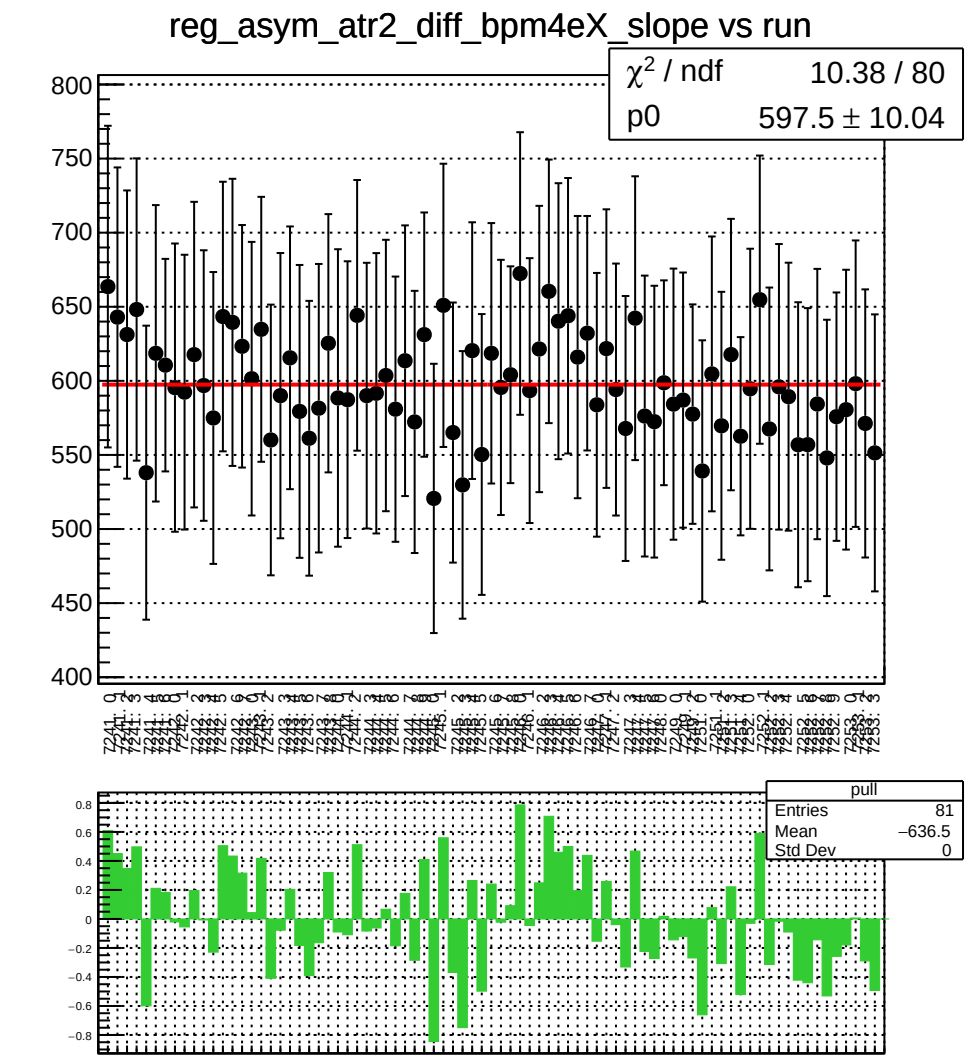

pull1D
Entries 81
Mean −0.01225
Std Dev 1.01

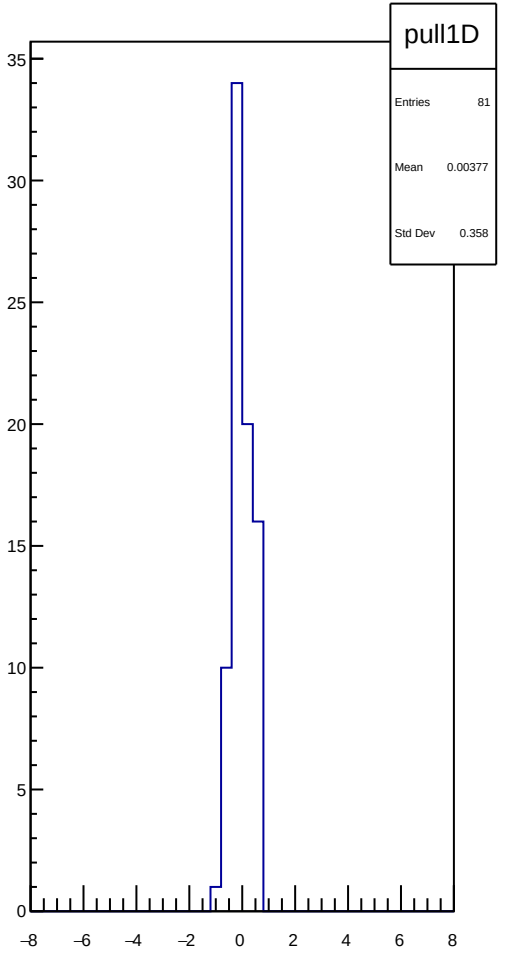

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 9.604 / 80
p0 −488.5 ± 9.67
pull
Entries 81
Mean −571.9
Std Dev 0

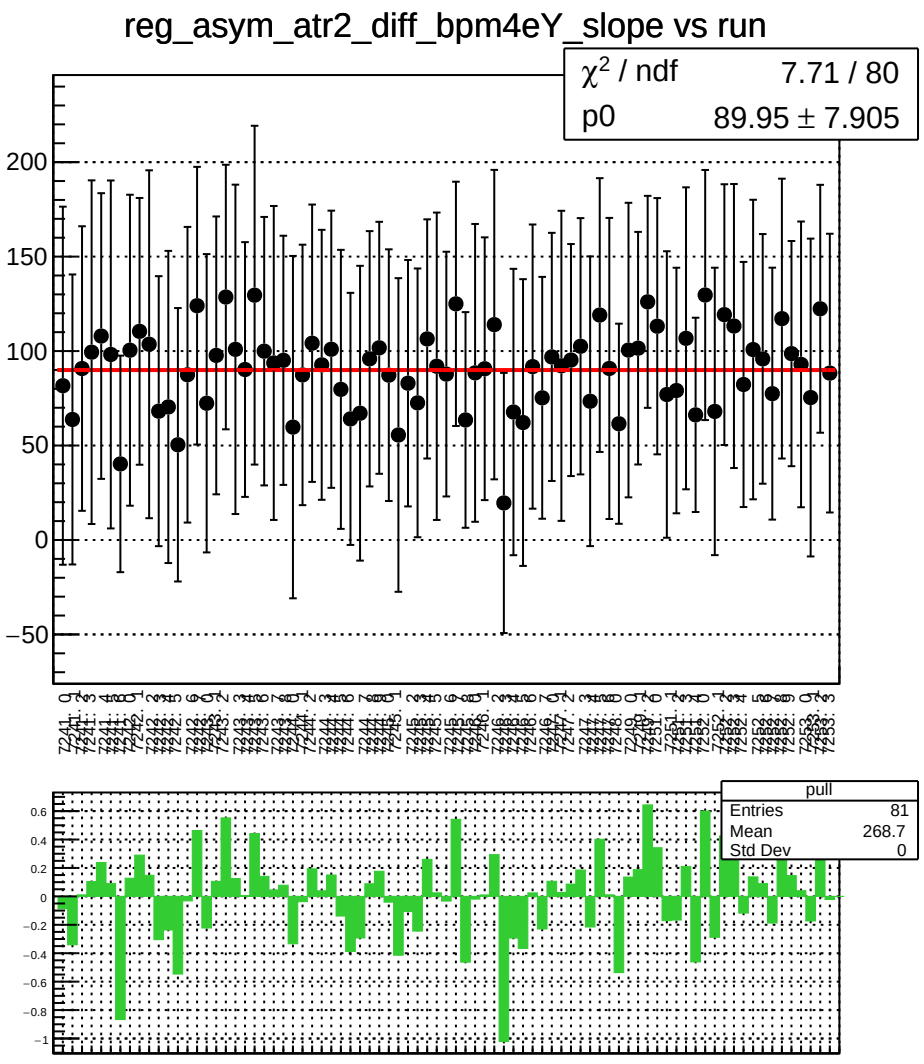

pull1D
Entries 81
Mean −0.002933
Std Dev 0.3443

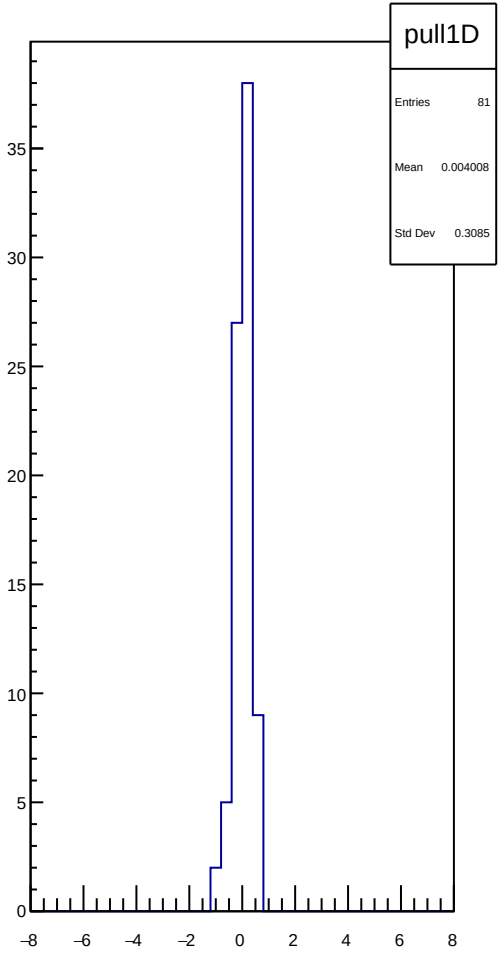

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 8.035 / 80
p0 40.27 ± 7.352
pull
Entries 81
Mean 1298
Std Dev 0

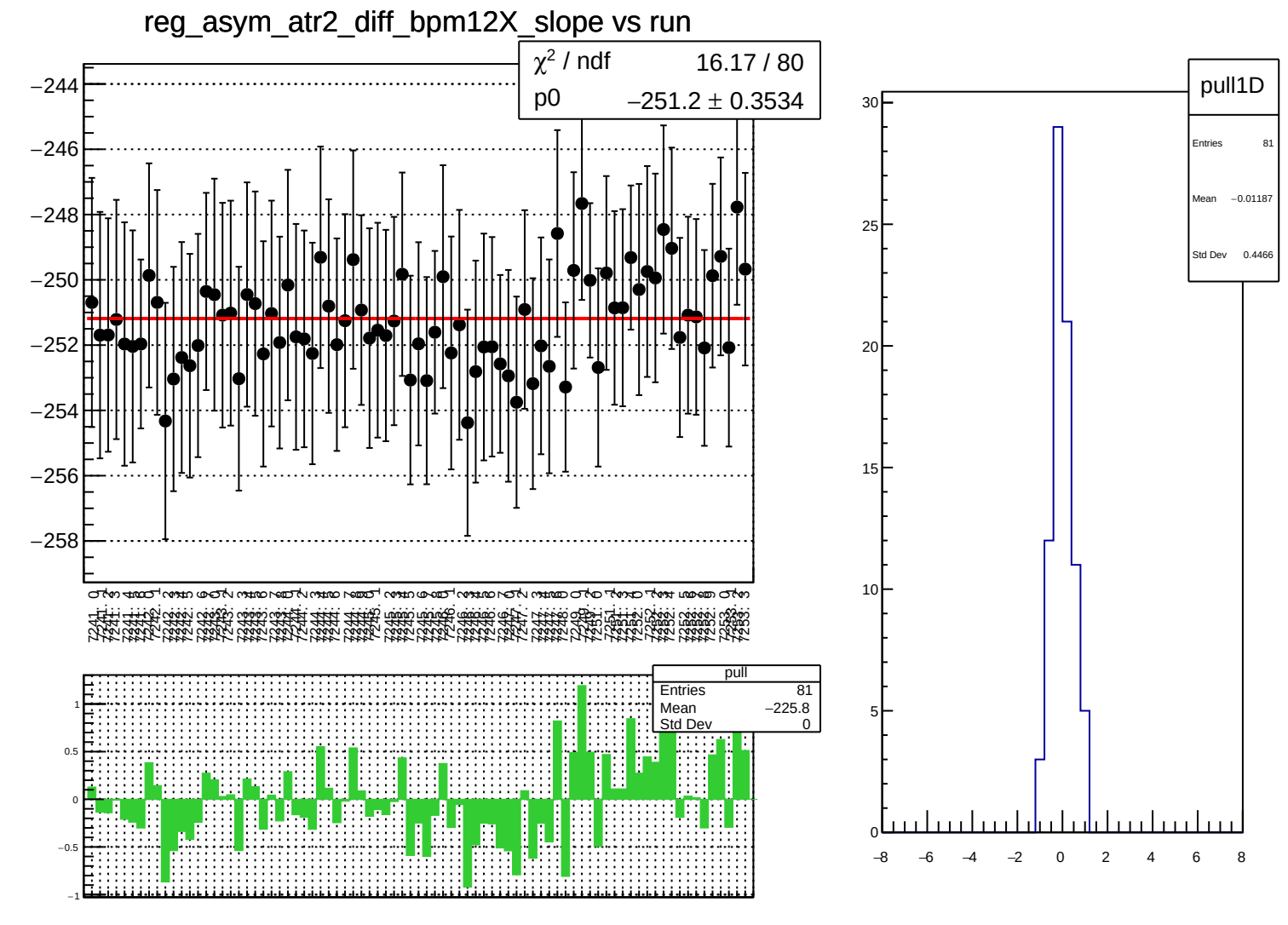

pull1D
Entries 81
Mean −0.001292
Std Dev 0.3149

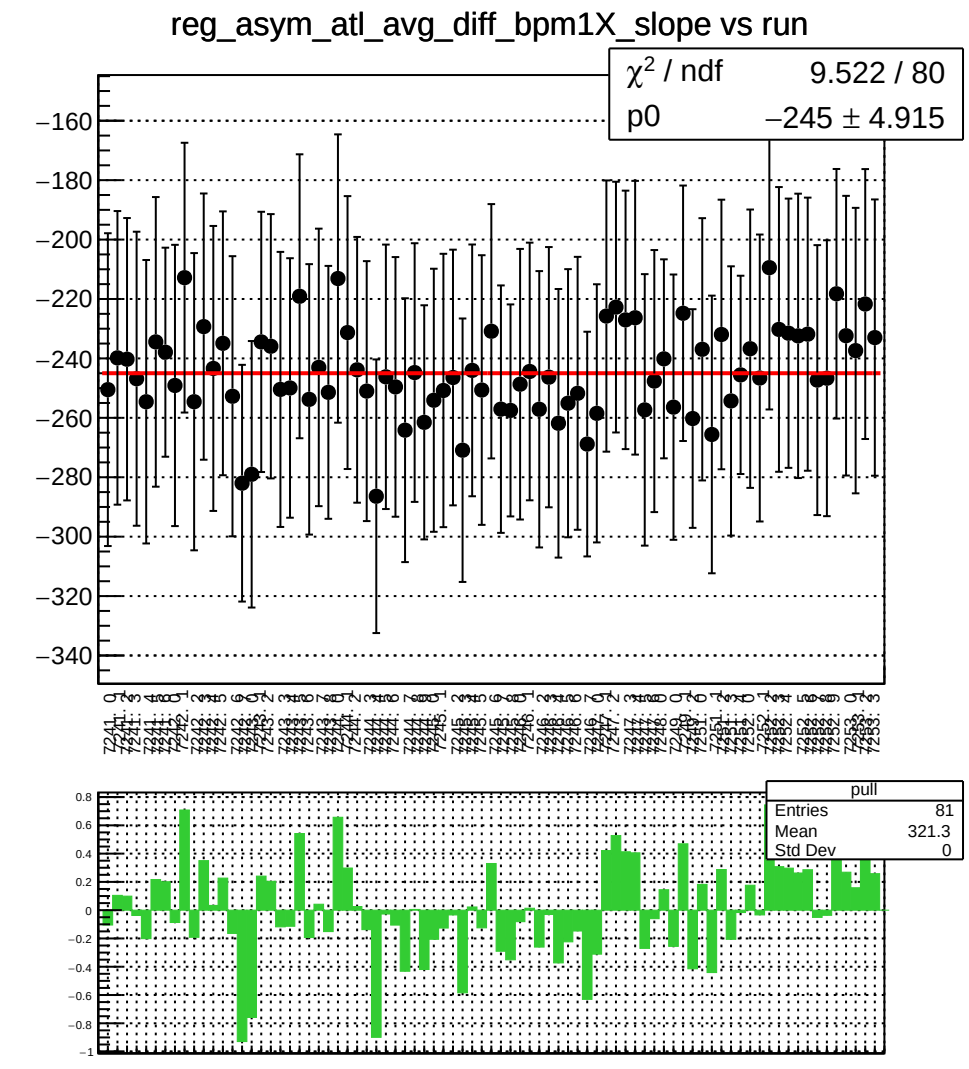

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 10.38 / 80
p0 597.5 ± 10.04
800
750
700
650
600
550
500
450
400
pull
Entries 81
Mean −636.5
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

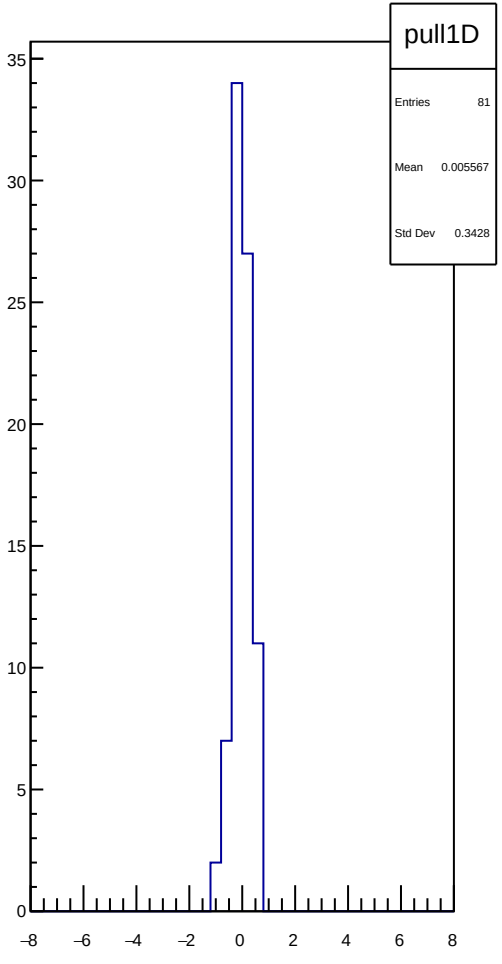

pull1D
Entries 81
Mean 0.00377
Std Dev 0.358
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

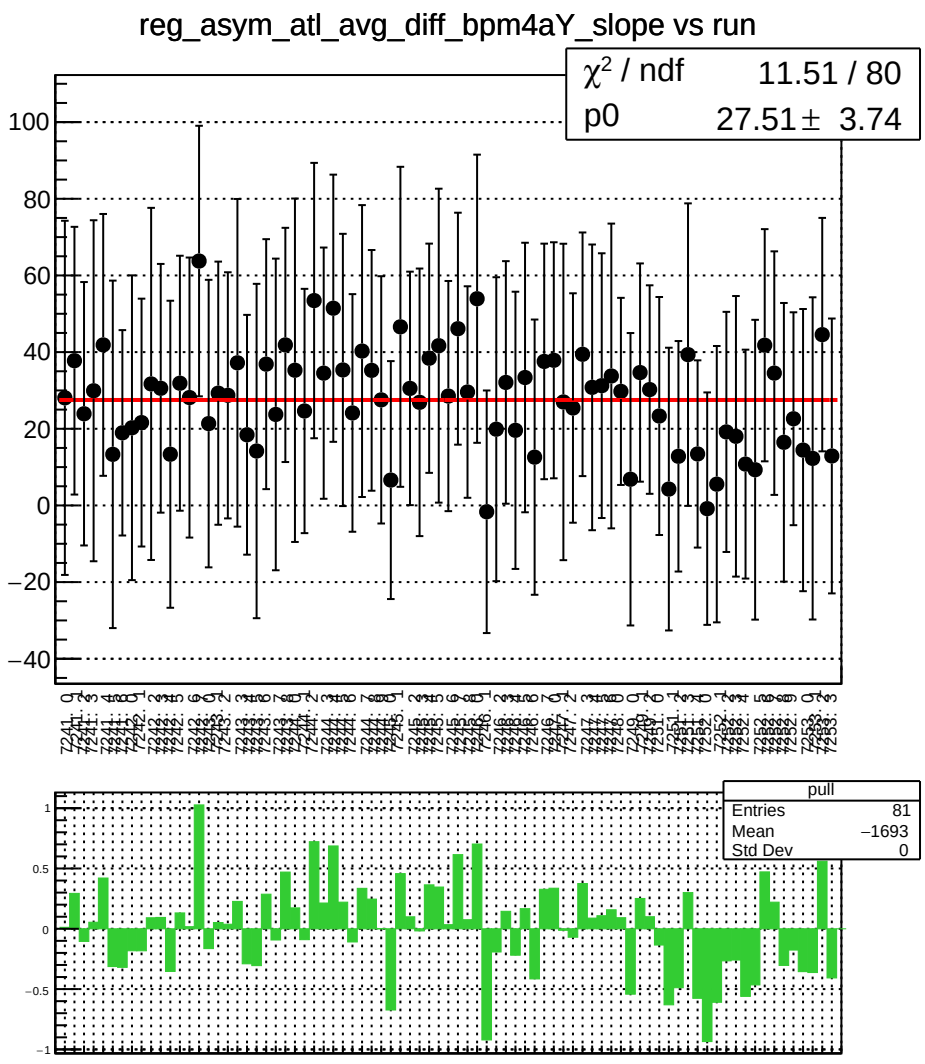

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 7.71 / 80
p0 89.95 ± 7.905
pull
Entries 81
Mean 268.7
Std Dev 0

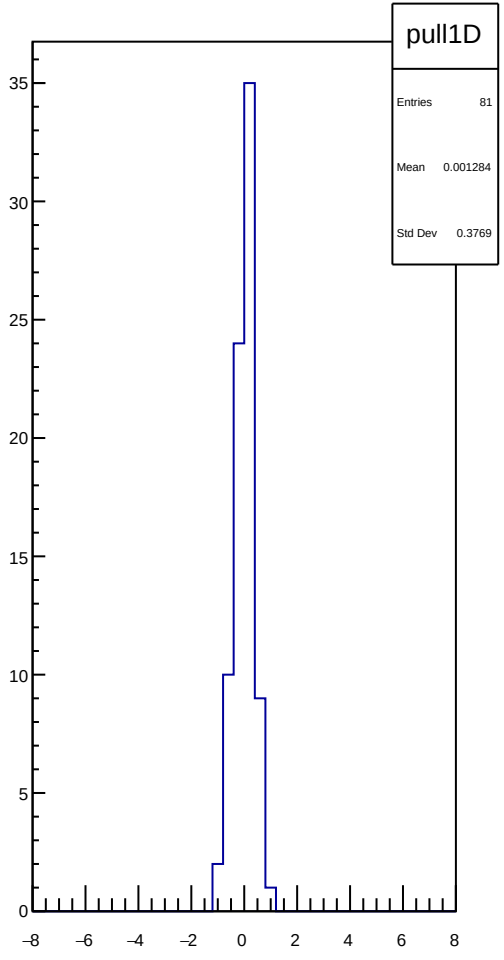

pull1D
Entries 81
Mean 0.004008
Std Dev 0.3085

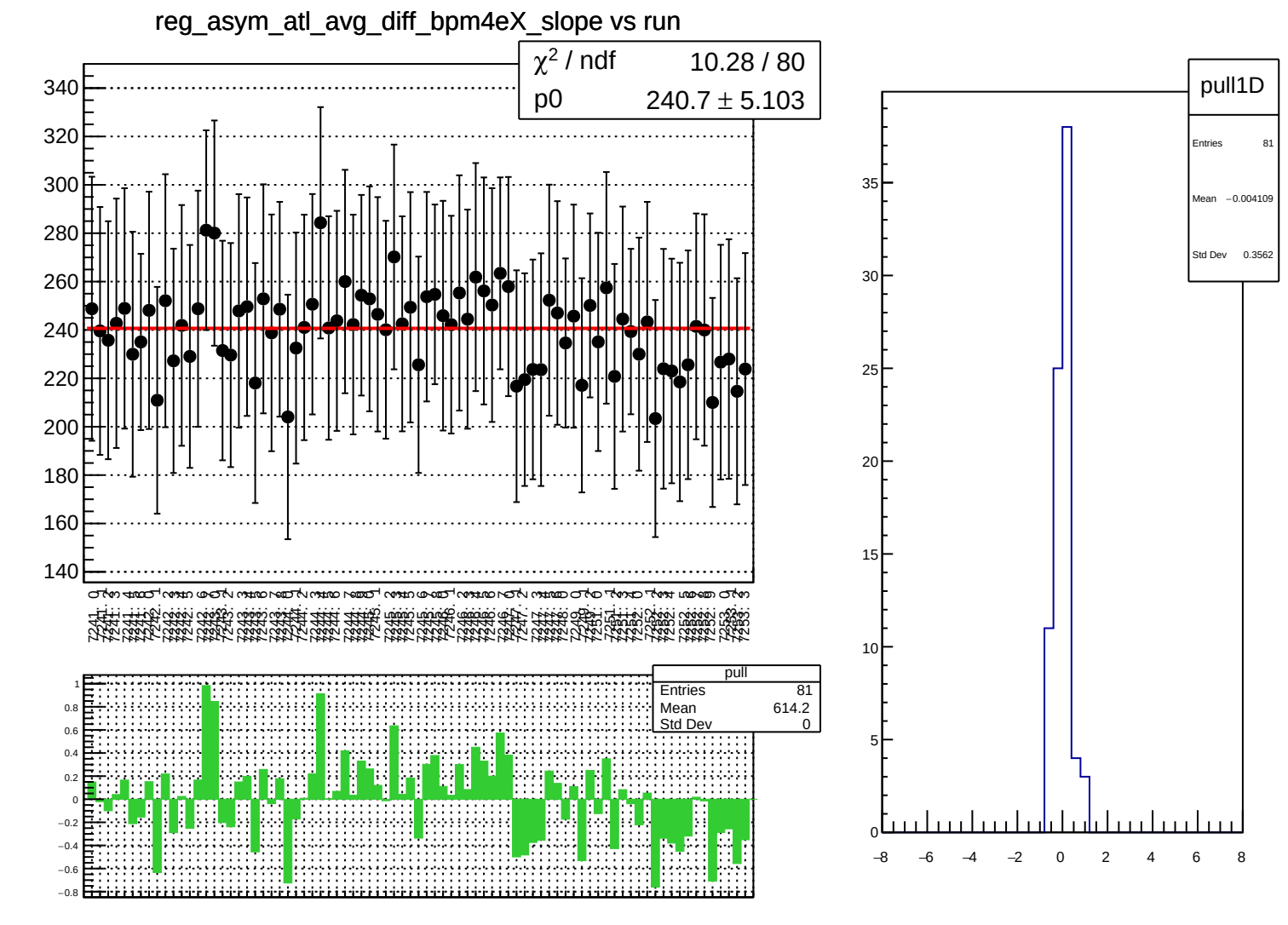

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 16.17 / 80
p0 −251.2 ± 0.3534
pull
Entries 81
Mean −225.8
Std Dev 0
pull1D
Entries 81
Mean −0.01187
Std Dev 0.4466

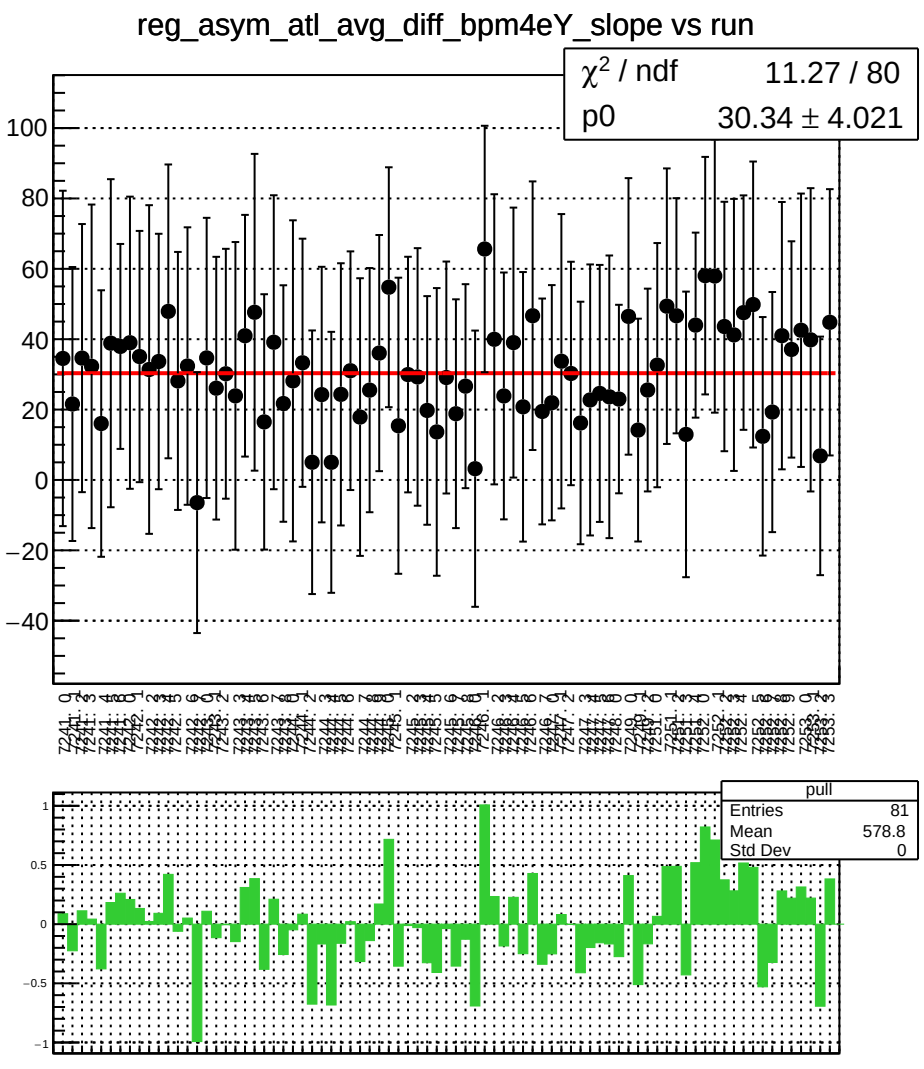

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 9.522 / 80
p0 −245 ± 4.915
pull
Entries 81
Mean 321.3
Std Dev 0

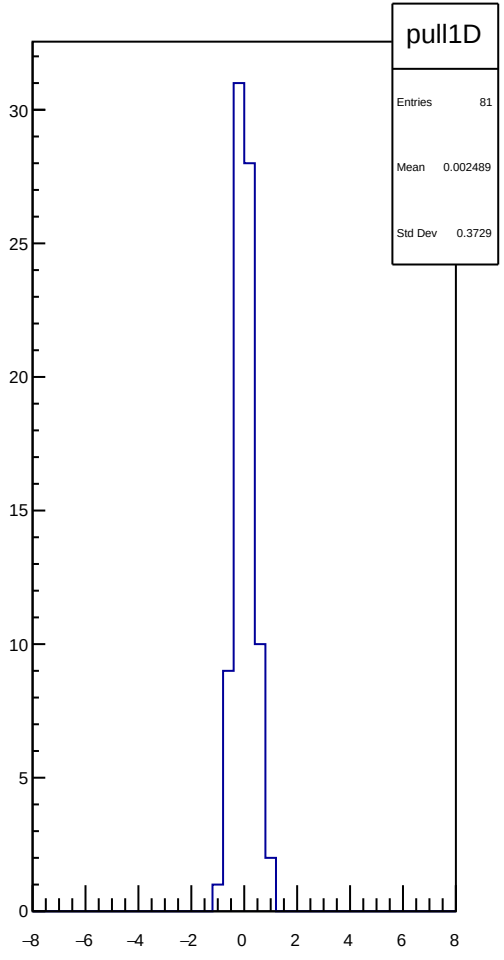

pull1D
Entries 81
Mean 0.005567
Std Dev 0.3428

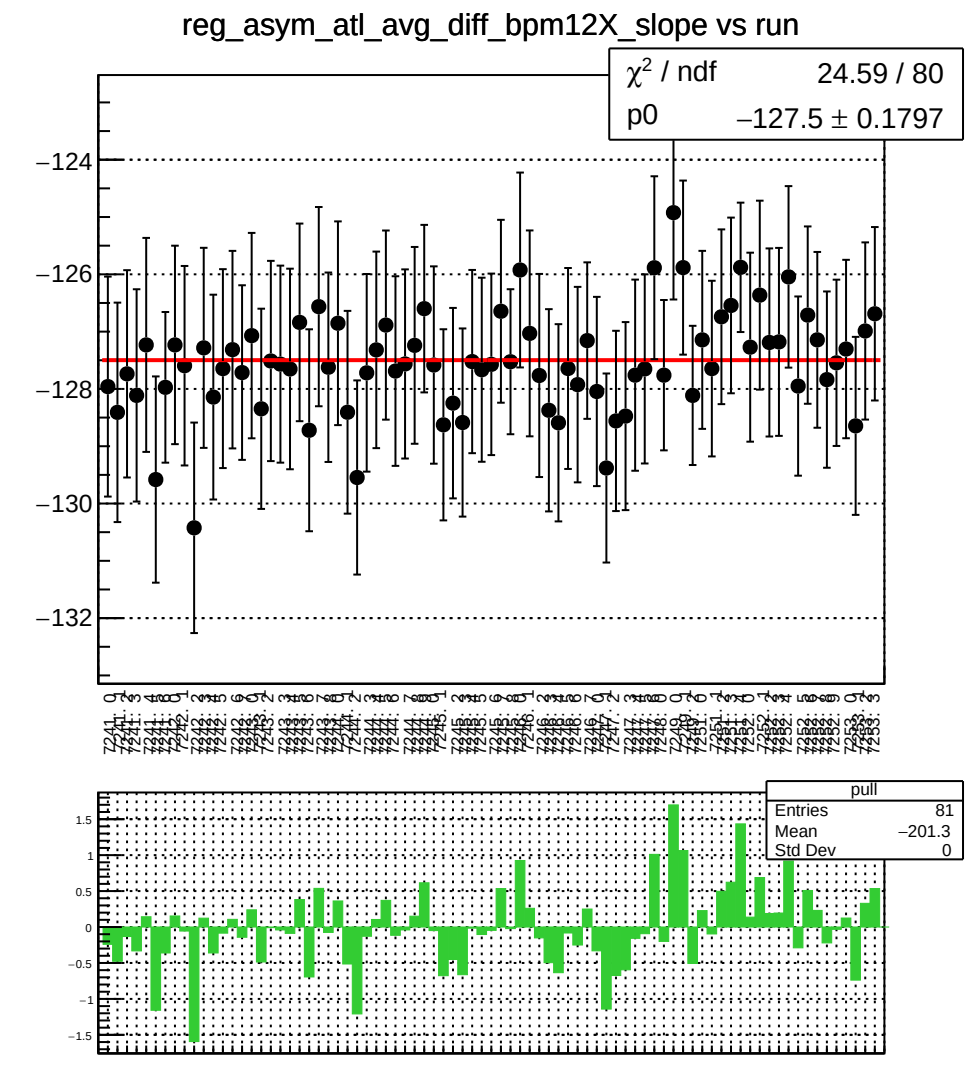

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.51 / 80
p0 27.51 ± 3.74
pull
Entries 81
Mean −1693
Std Dev 0

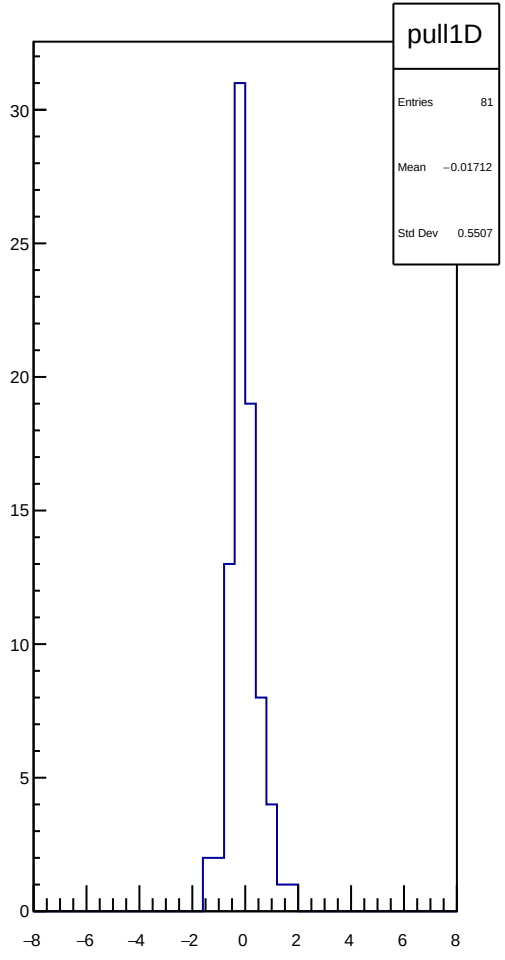

pull1D
Entries 81
Mean 0.001284
Std Dev 0.3769

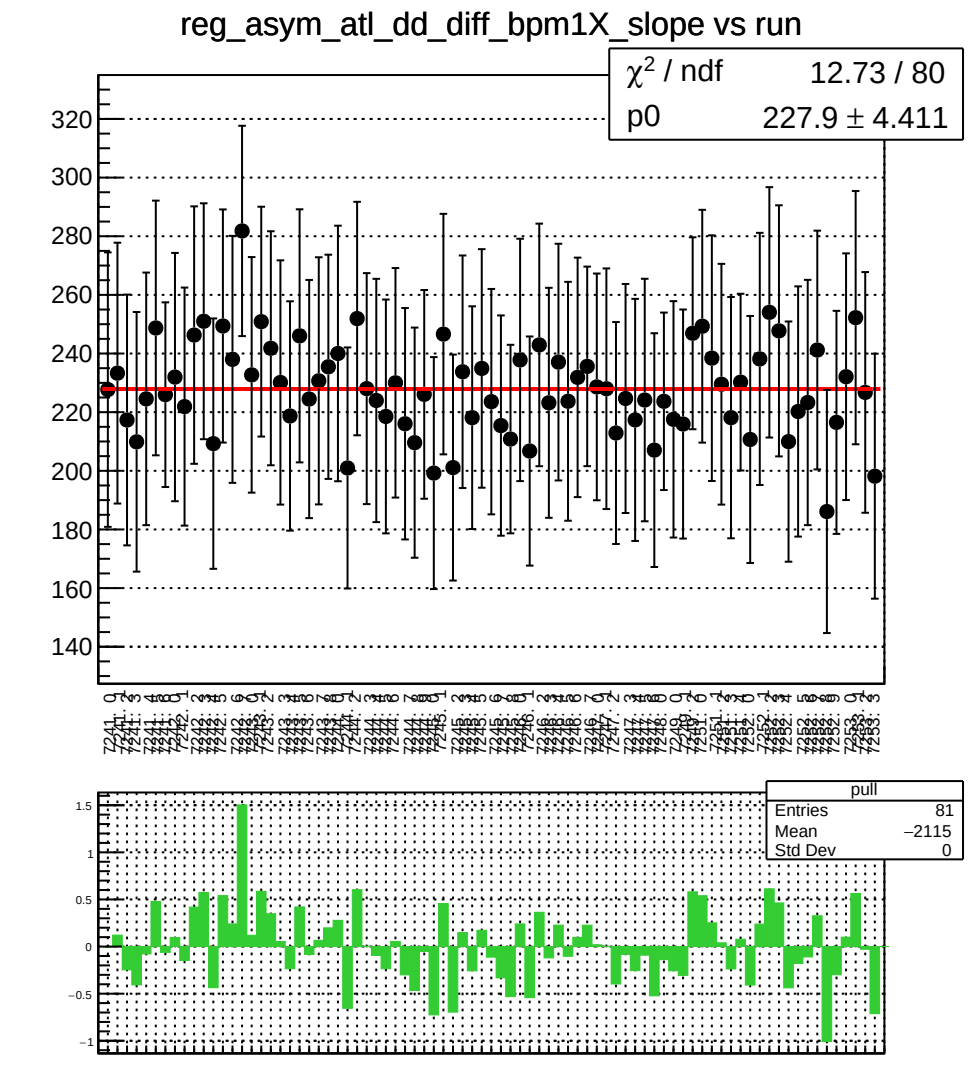

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.28 / 80
p0 240.7 ± 5.103
pull
Entries 81
Mean 614.2
Std Dev 0
pull1D
Entries 81
Mean −0.004109
Std Dev 0.3562

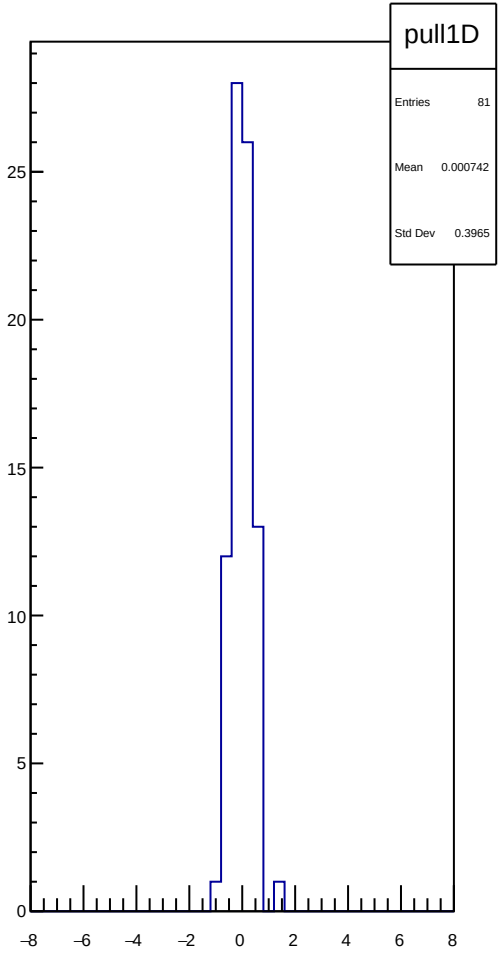

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 11.27 / 80
p0 30.34 ± 4.021
pull
Entries 81
Mean 578.8
Std Dev 0

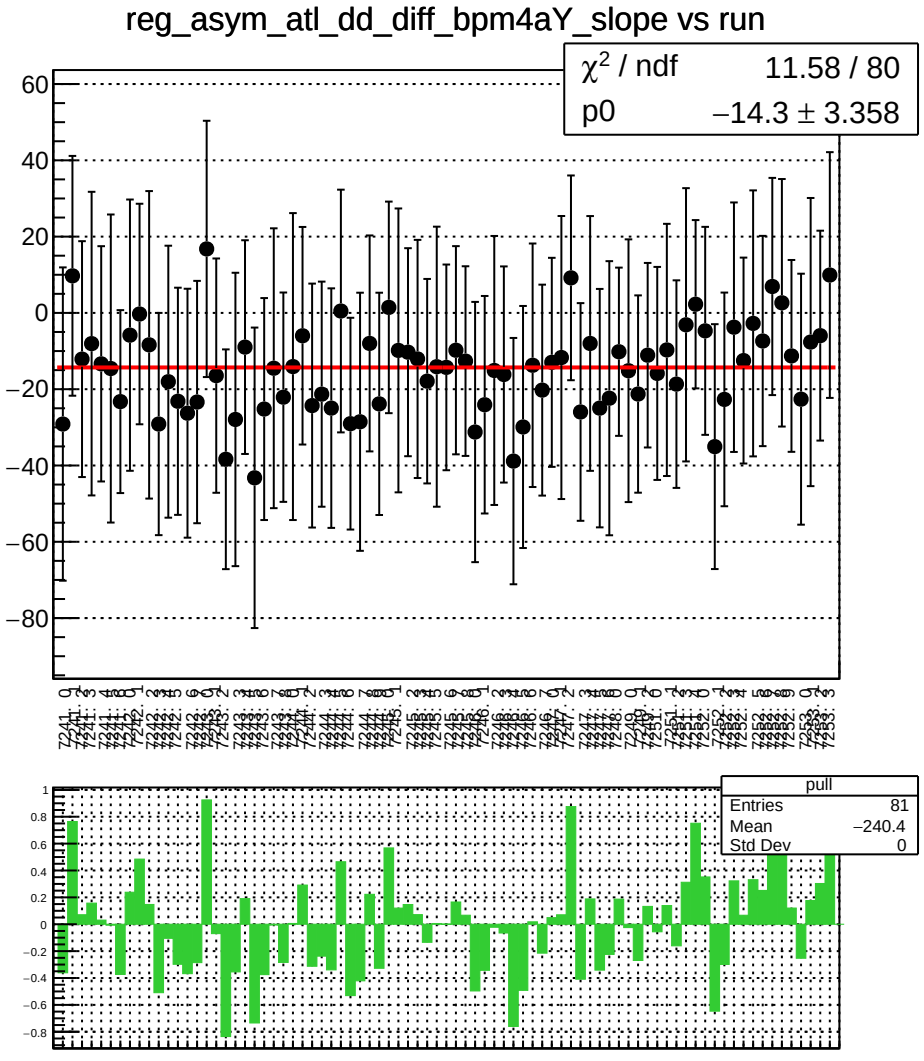

pull1D
Entries 81
Mean 0.002489
Std Dev 0.3729

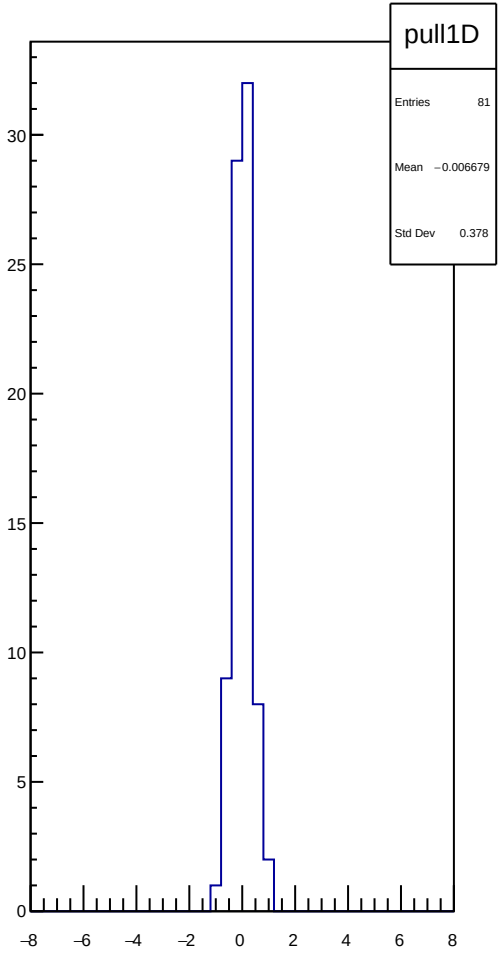

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 24.59 / 80
p0 −127.5 ± 0.1797
−124
−126
−128
−130
−132
pull
Entries 81
Mean −201.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

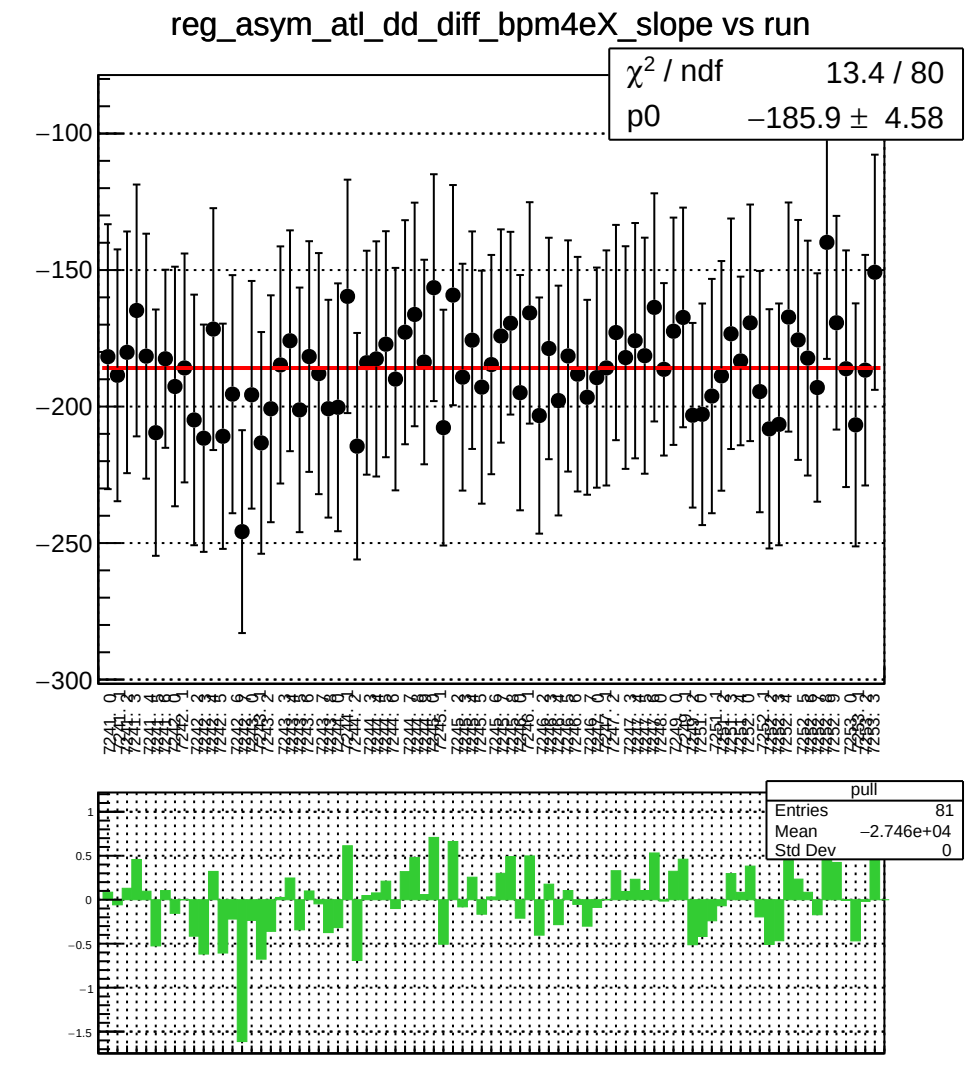

pull1D
Entries 81
Mean −0.01712
Std Dev 0.5507
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

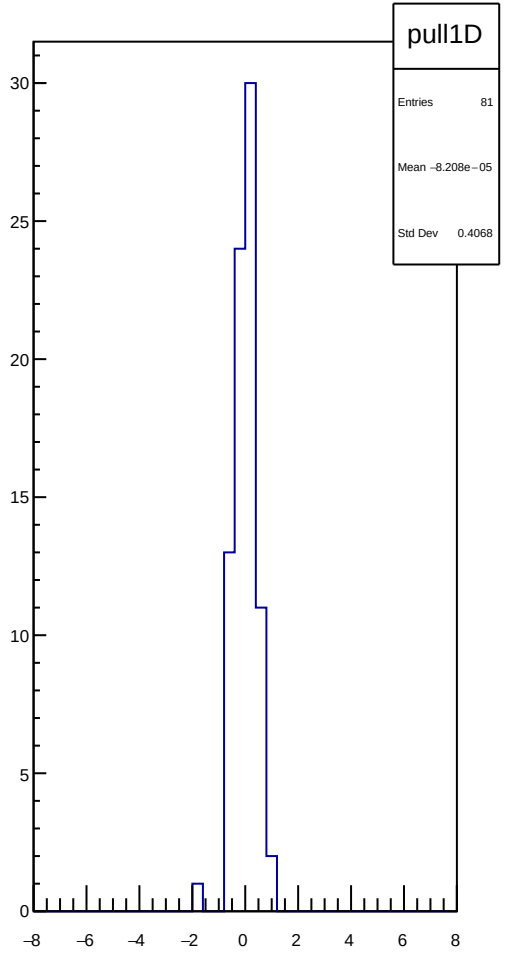

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 12.73 / 80
p0 227.9 ± 4.411
pull
Entries 81
Mean −2115
Std Dev 0

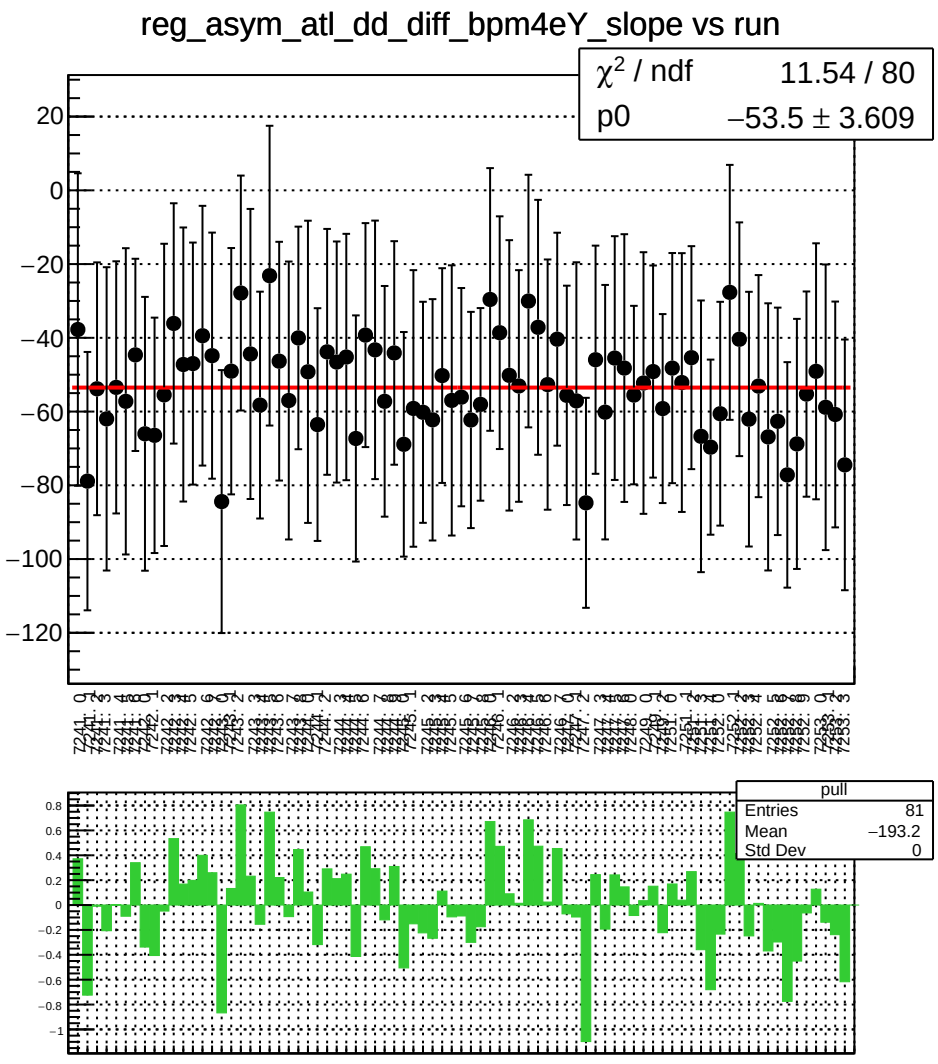

pull1D
Entries 81
Mean 0.000742
Std Dev 0.3965

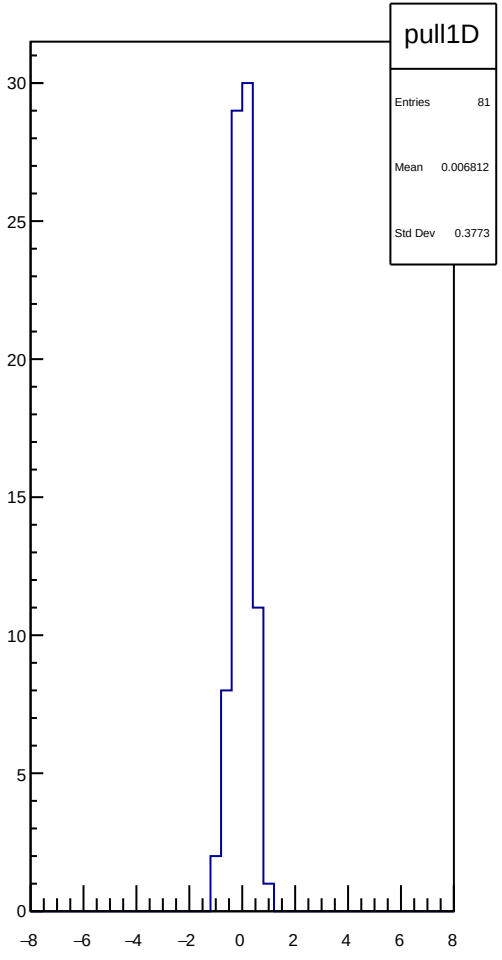

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.58 / 80
p0 −14.3 ± 3.358
pull
Entries 81
Mean −240.4
Std Dev 0

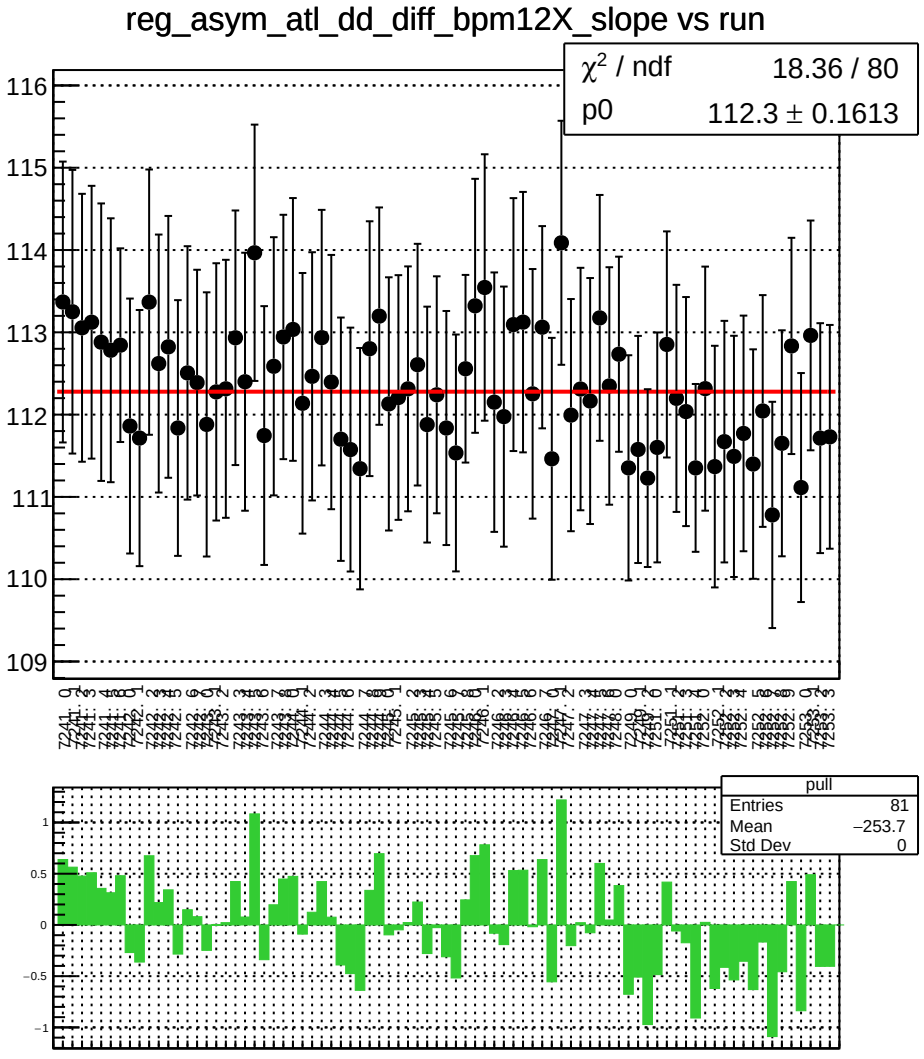

pull1D
Entries 81
Mean −0.006679
Std Dev 0.378

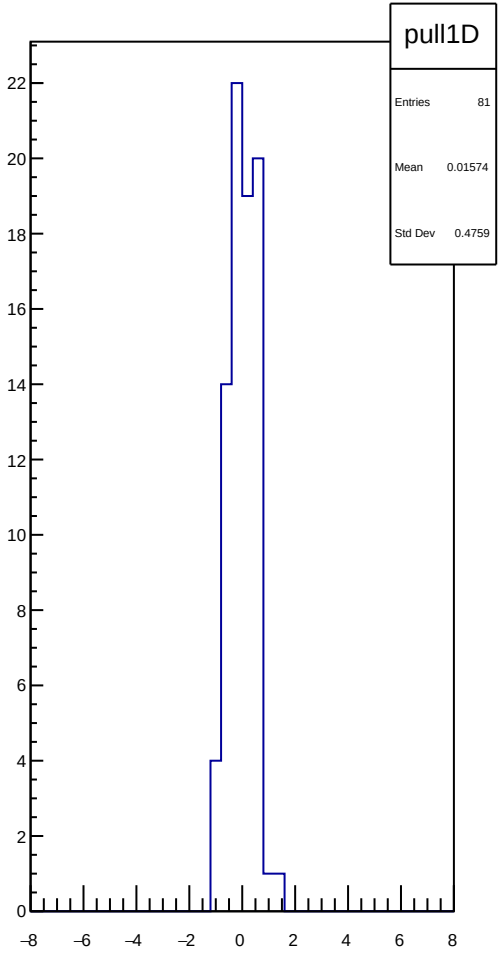

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 13.4 / 80
p0 −185.9 ± 4.58
−100
−150
−200
−250
−300
pull
Entries 81
Mean −2.746e+04
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

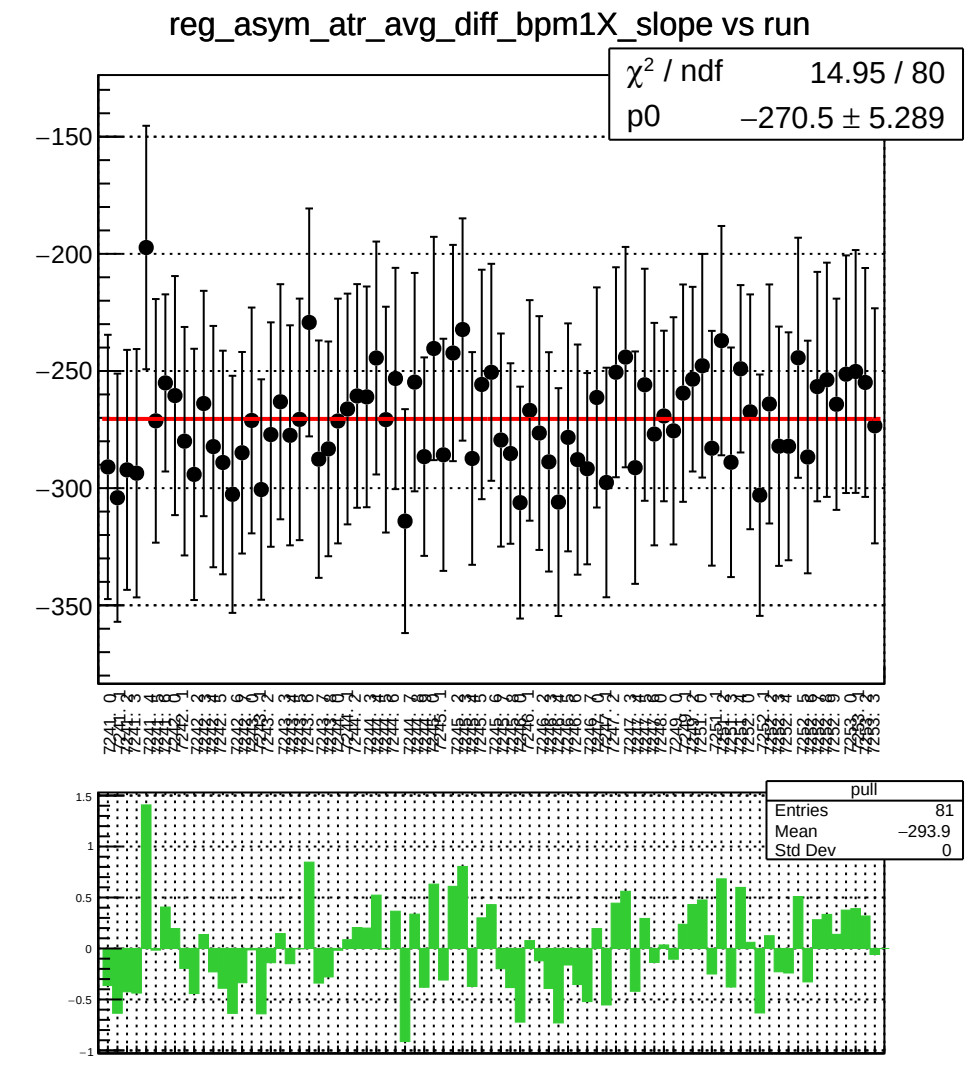

pull1D
Entries 81
Mean −8.208e−05
Std Dev 0.4068
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

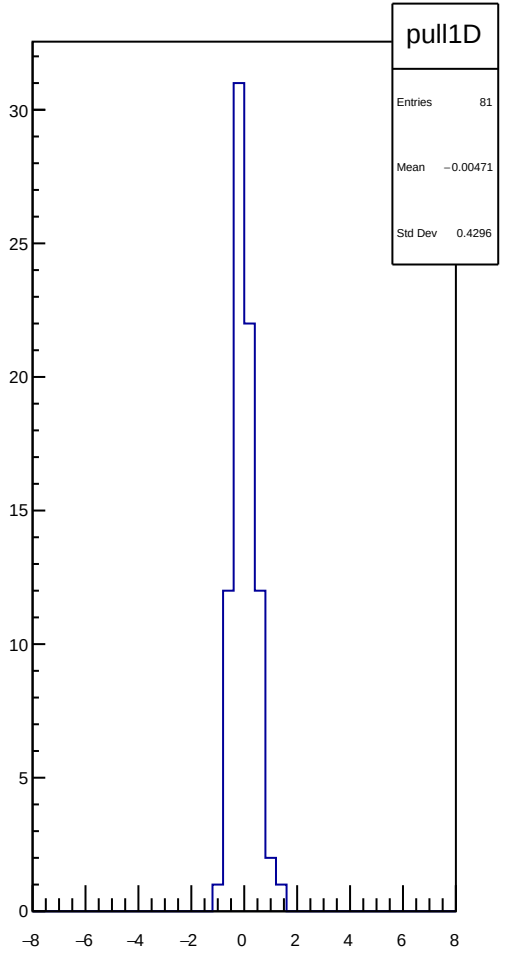

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.54 / 80
p0 −53.5 ± 3.609
pull
Entries 81
Mean −193.2
Std Dev 0

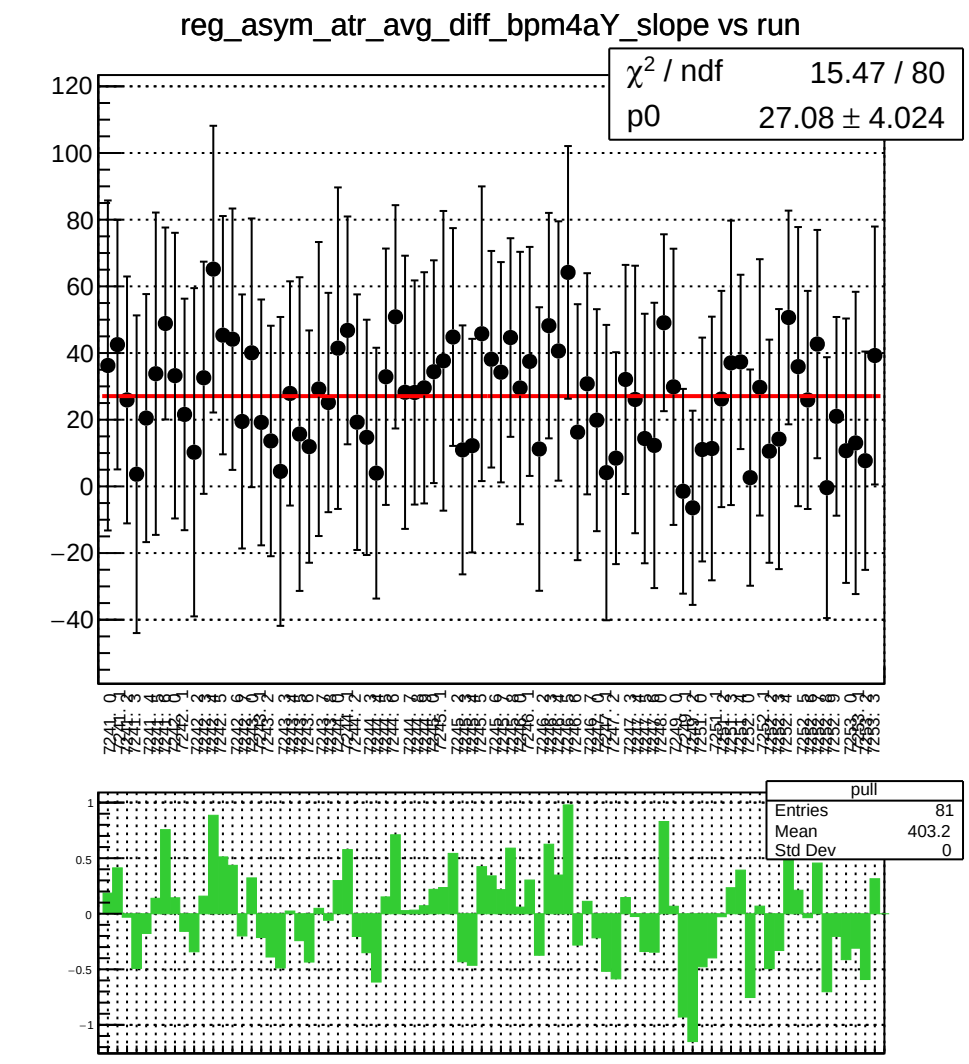

pull1D
Entries 81
Mean 0.006812
Std Dev 0.3773

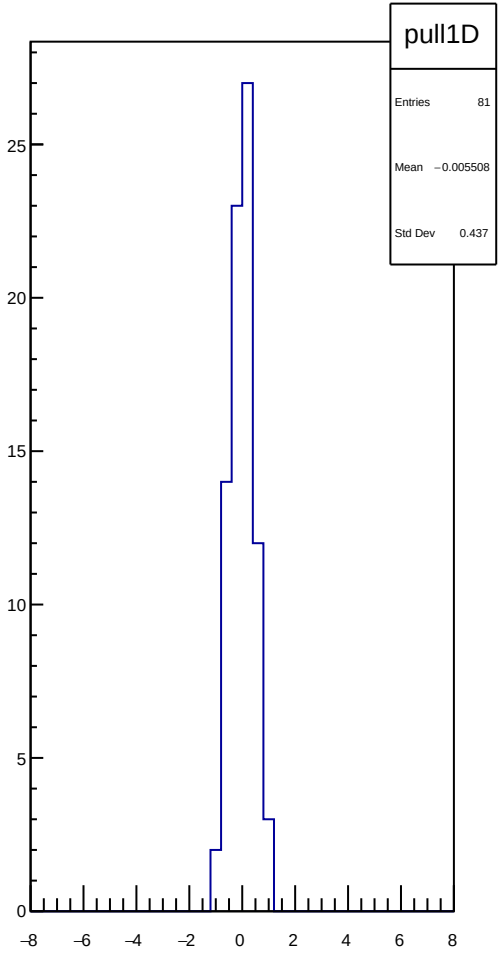

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 18.36 / 80
p0 112.3 ± 0.1613
pull
Entries 81
Mean −253.7
Std Dev 0

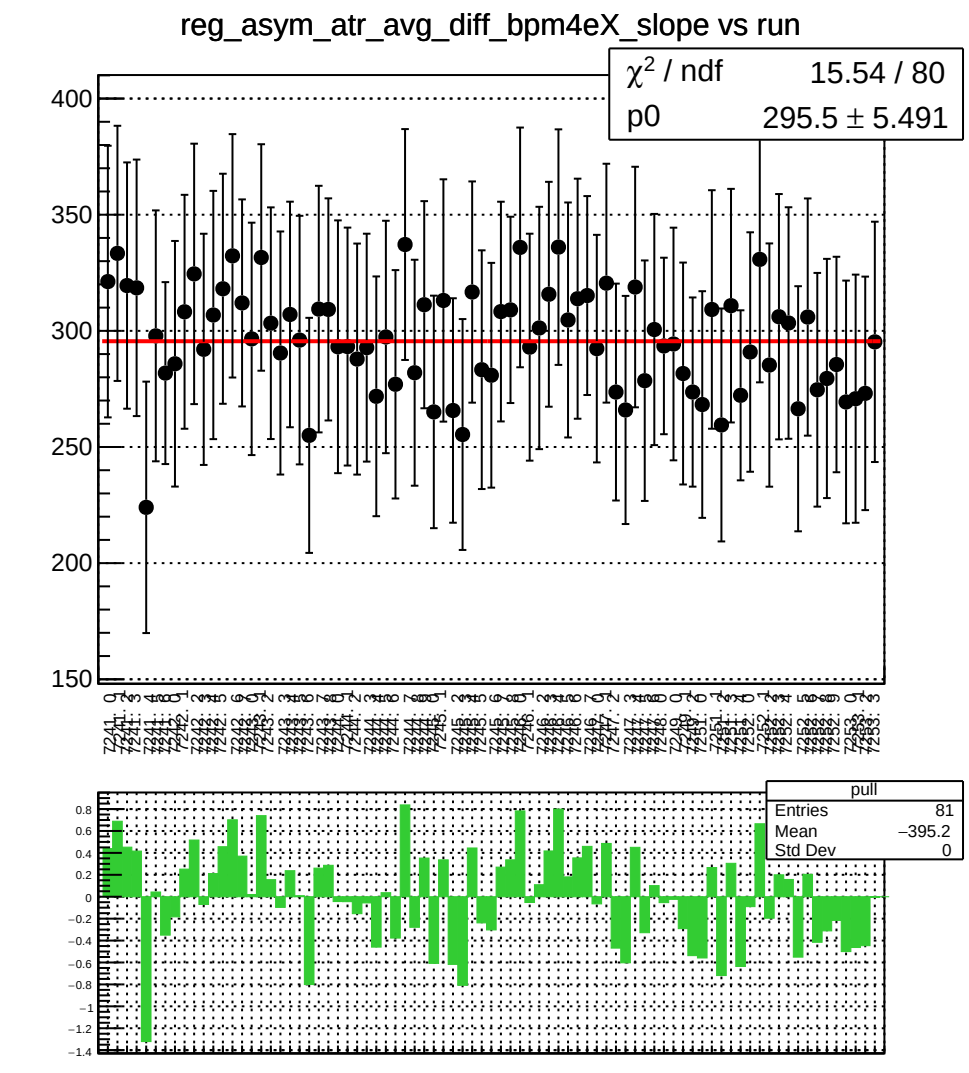

pull1D
Entries 81
Mean 0.01574
Std Dev 0.4759

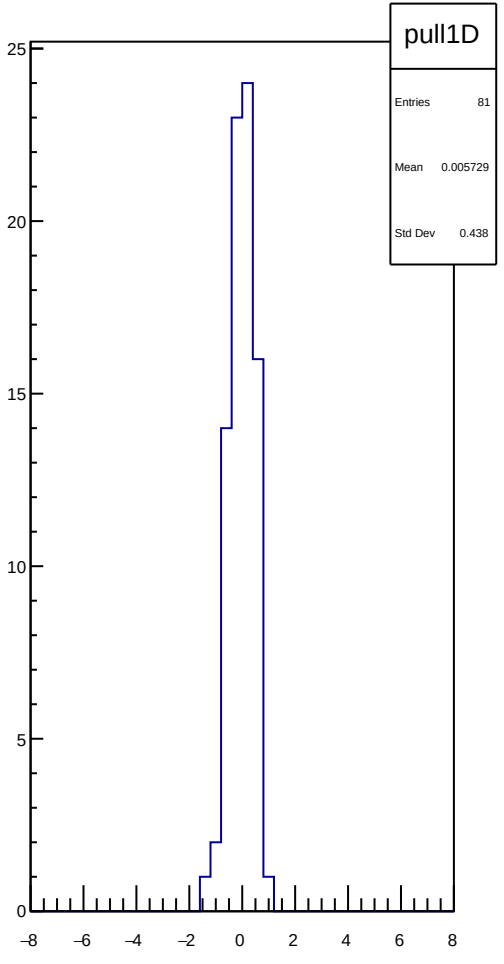

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 14.95 / 80
p0 −270.5 ± 5.289
−150
−200
−250
−300
−350
pull
Entries 81
Mean −293.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1

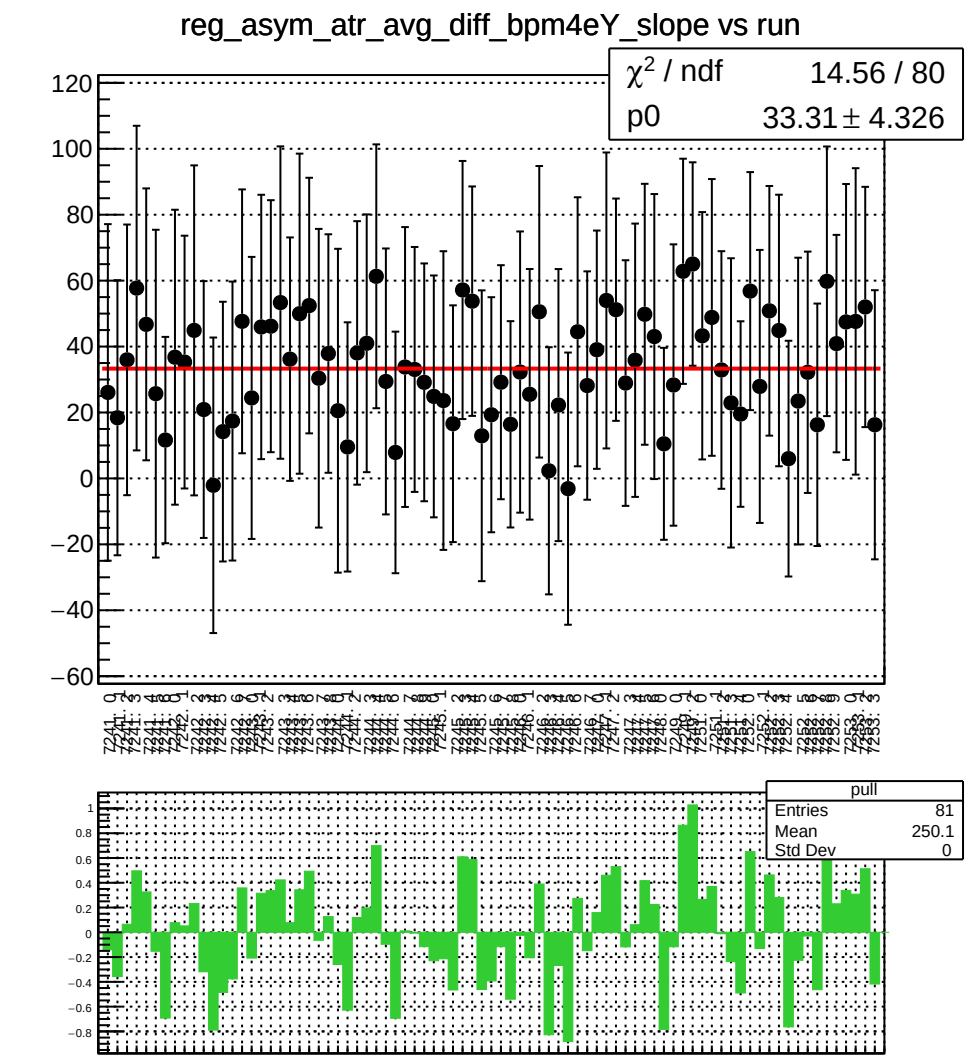

pull1D
Entries 81
Mean −0.00471
Std Dev 0.4296
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

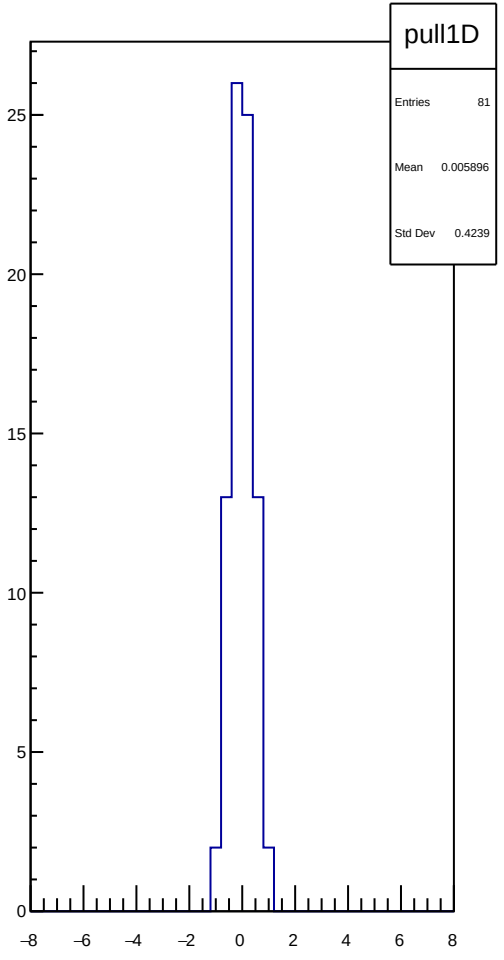

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 15.47 / 80
p0 27.08 ± 4.024
pull
Entries 81
Mean 403.2
Std Dev 0

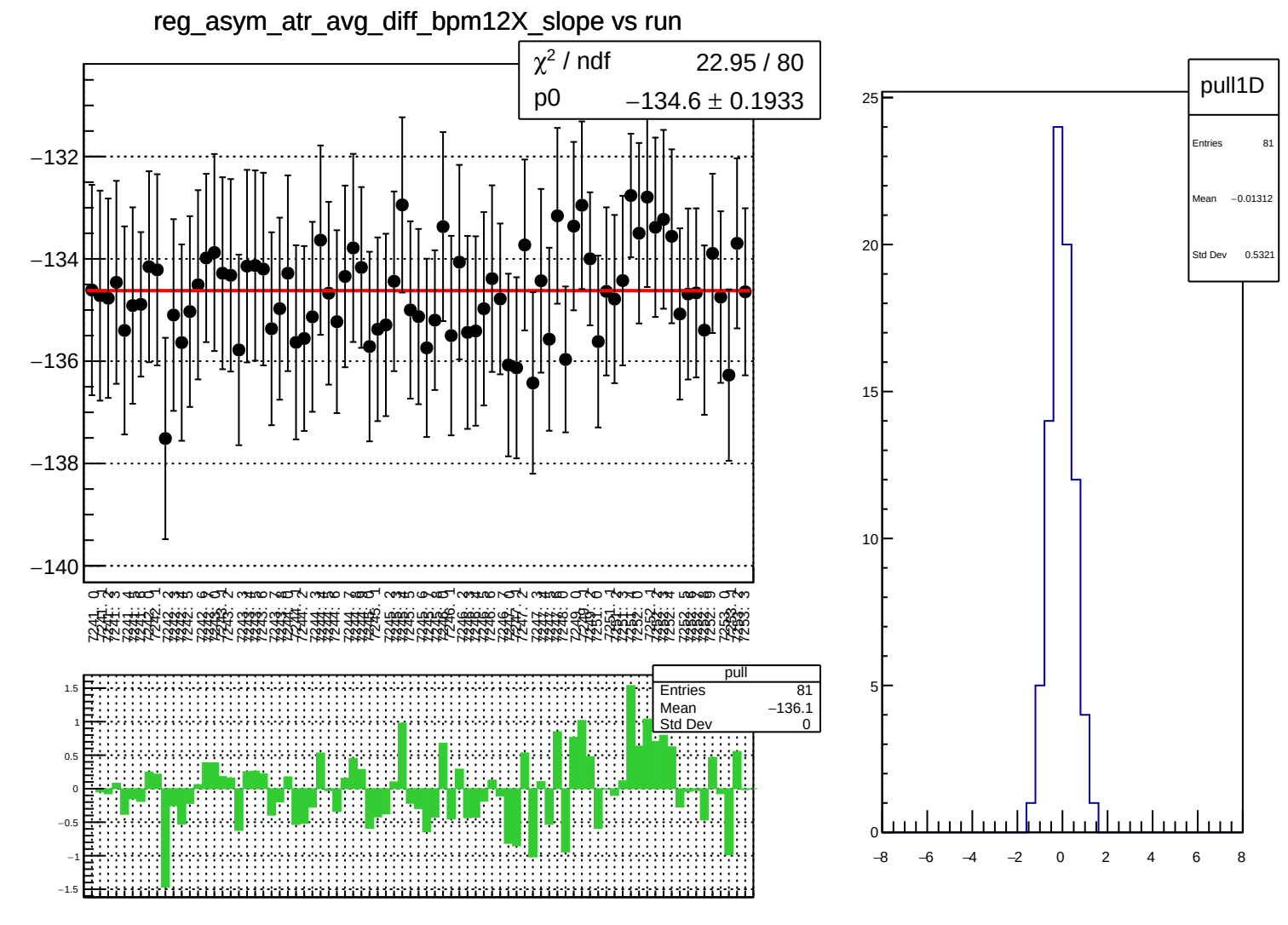

pull1D
Entries 81
Mean −0.005508
Std Dev 0.437

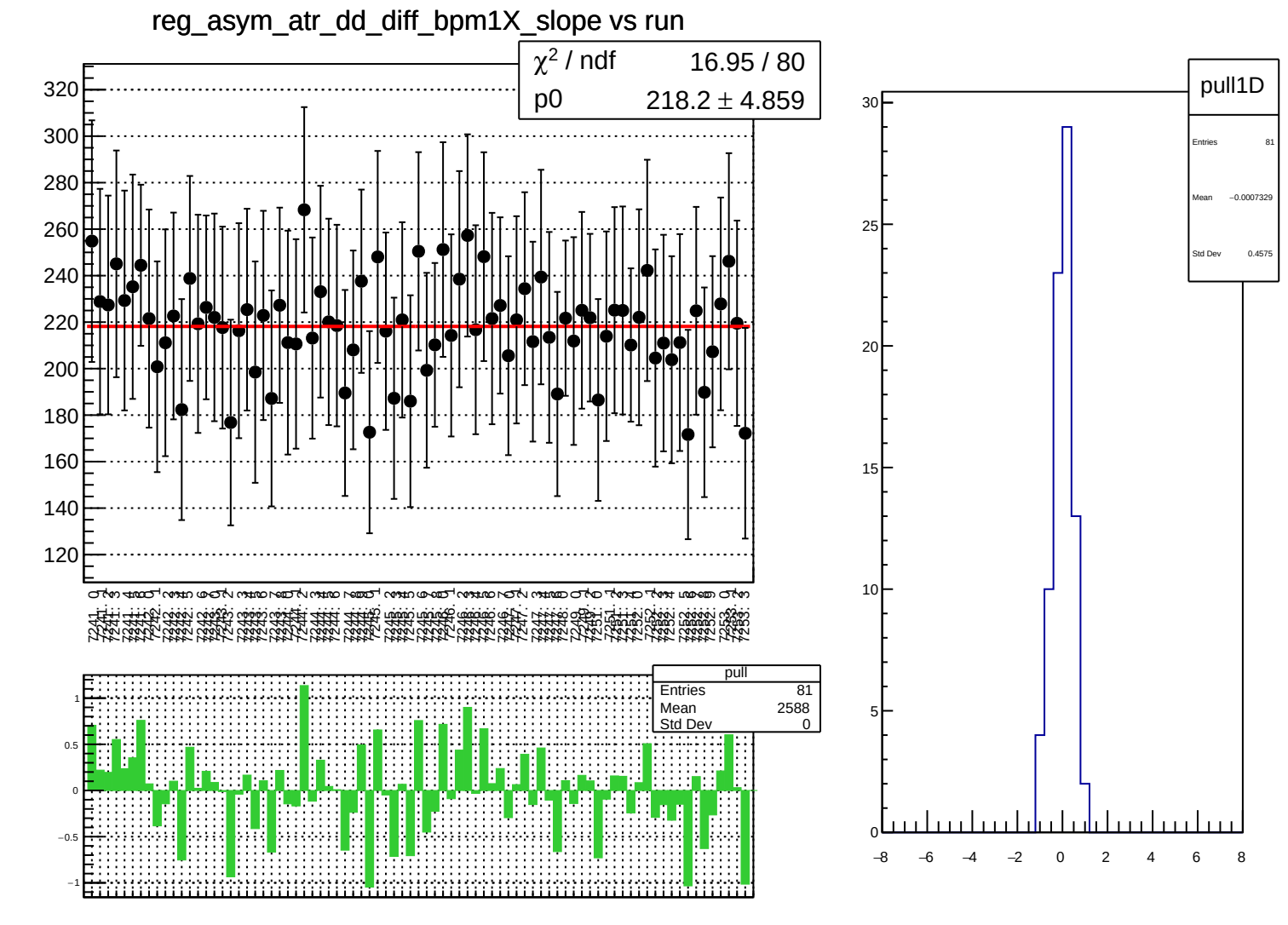

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 15.54 / 80
p0 295.5 ± 5.491
pull
Entries 81
Mean −395.2
Std Dev 0

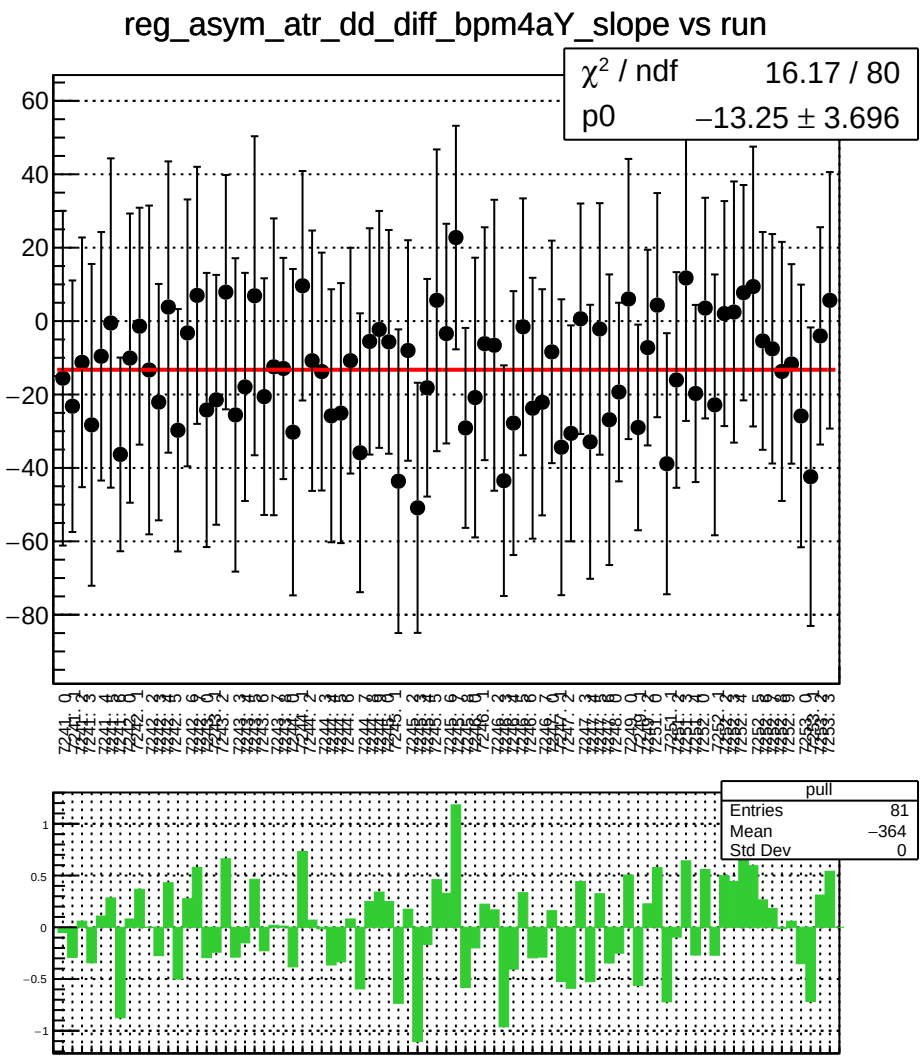

pull1D
Entries 81
Mean 0.005729
Std Dev 0.438

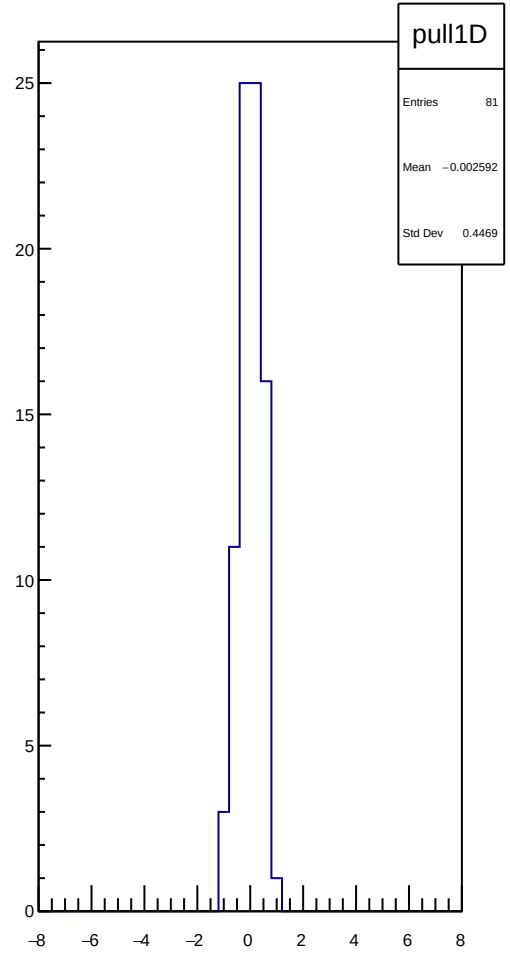

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.56 / 80
p0 33.31 ± 4.326
pull
Entries 81
Mean 250.1
Std Dev 0

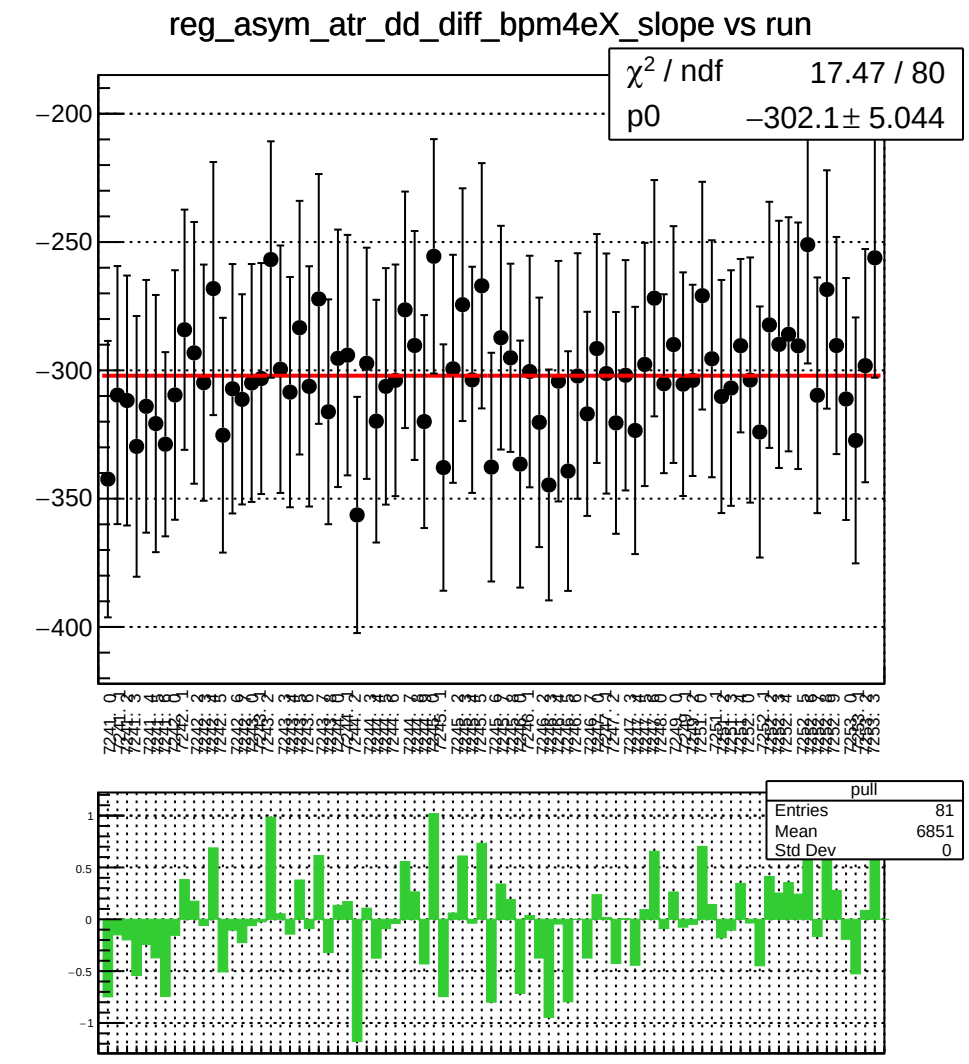

pull1D
Entries 81
Mean 0.005896
Std Dev 0.4239

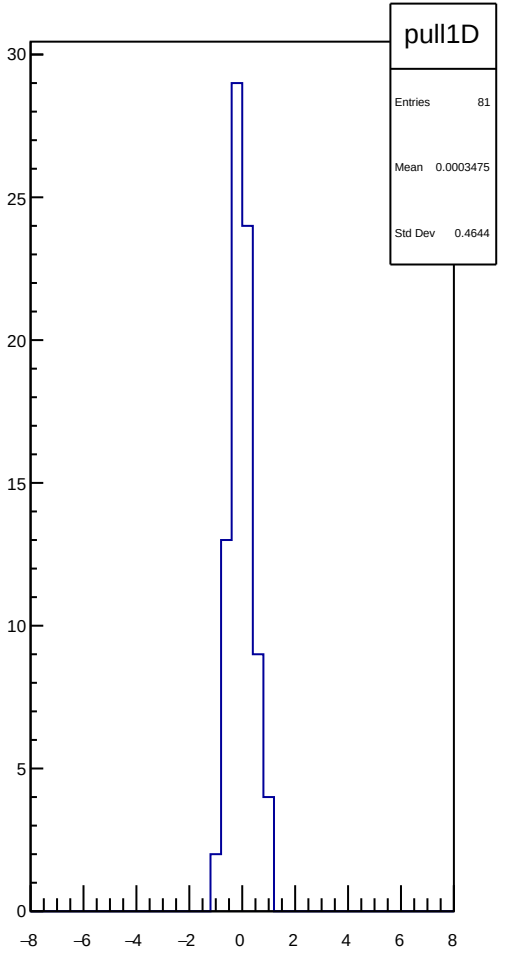

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 22.95 / 80
p0 −134.6 ± 0.1933
−132
−134
−136
−138
−140
pull
Entries 81
Mean −136.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 81
Mean −0.01312
Std Dev 0.5321
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

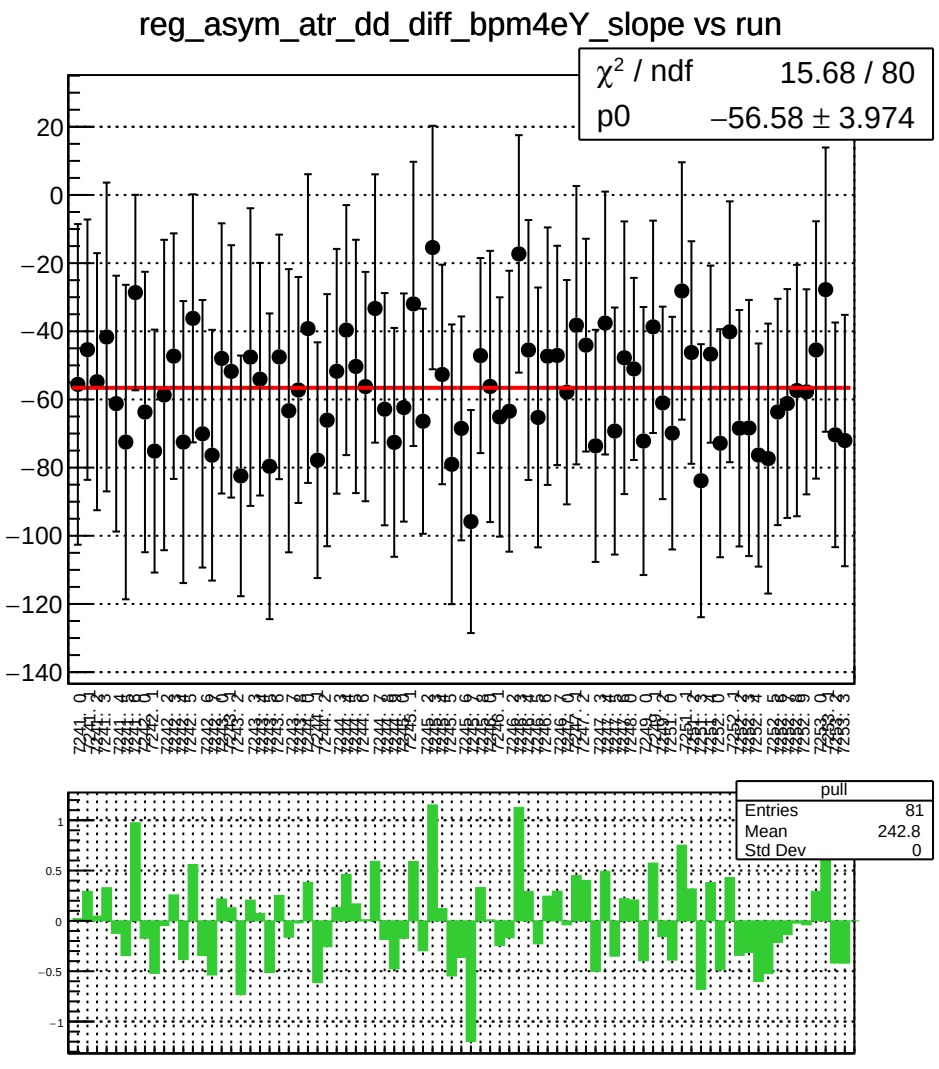

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 16.95 / 80
p0 218.2 ± 4.859
pull
Entries 81
Mean 2588
Std Dev 0
pull1D
Entries 81
Mean −0.0007329
Std Dev 0.4575

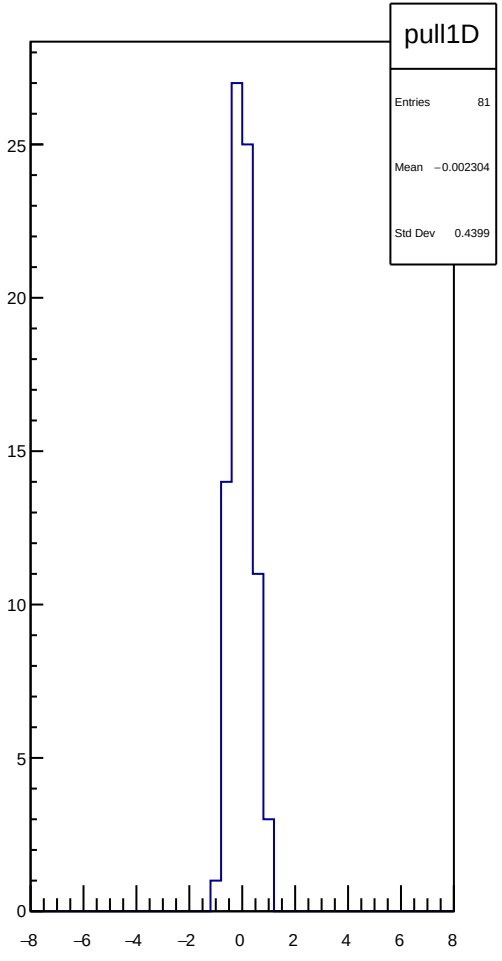

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.17 / 80
p0 −13.25 ± 3.696
pull
Entries 81
Mean −364
Std Dev 0

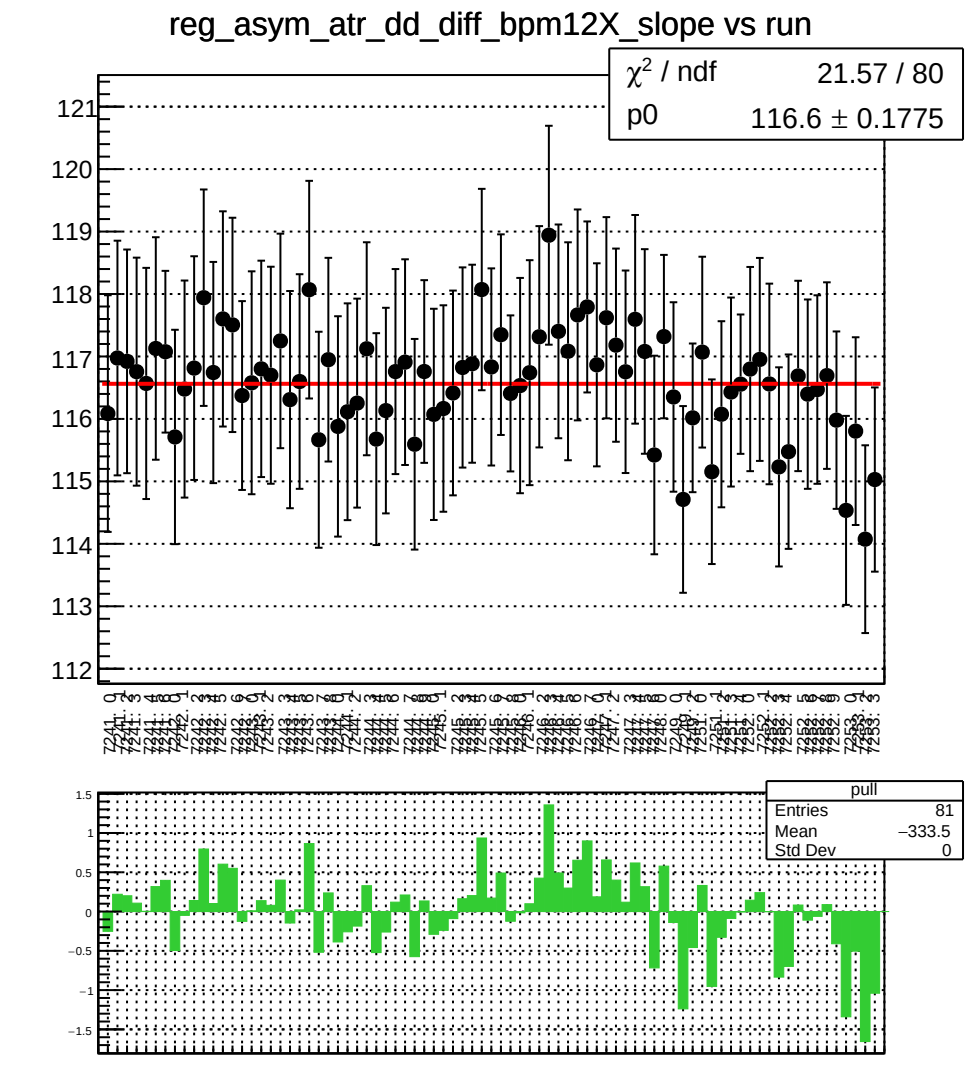

pull1D
Entries 81
Mean −0.002592
Std Dev 0.4469

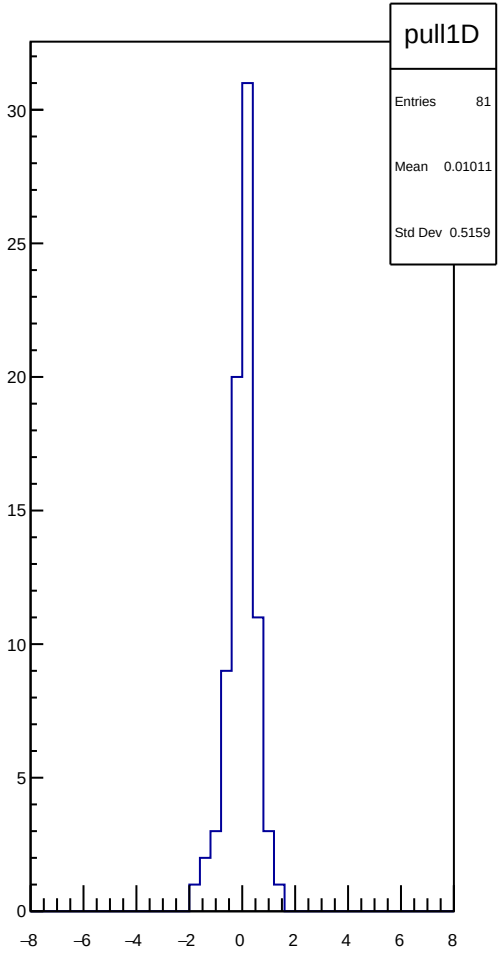

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 17.47 / 80
p0 −302.1 ± 5.044
−200
−250
−300
−350
−400
pull
Entries 81
Mean 6851
Std Dev 0
1
0.5
0
−0.5
−1

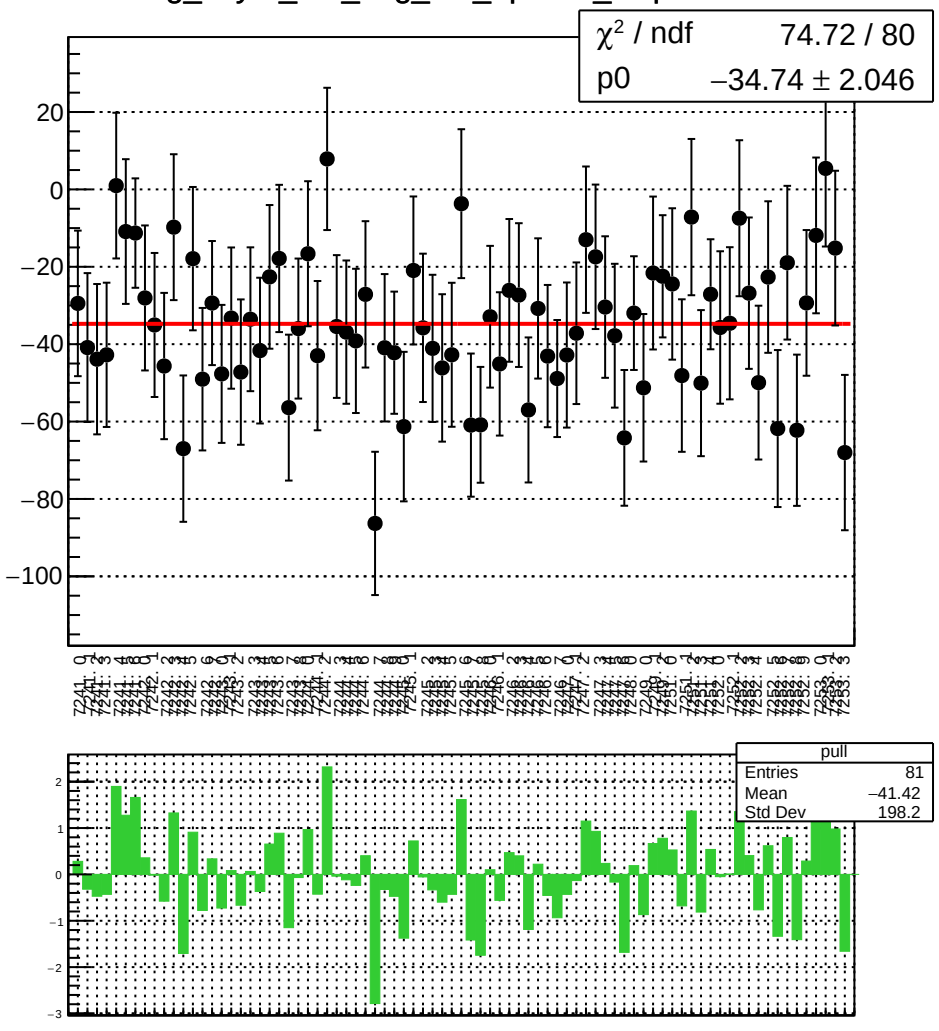

pull1D
Entries 81
Mean 0.0003475
Std Dev 0.4644
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

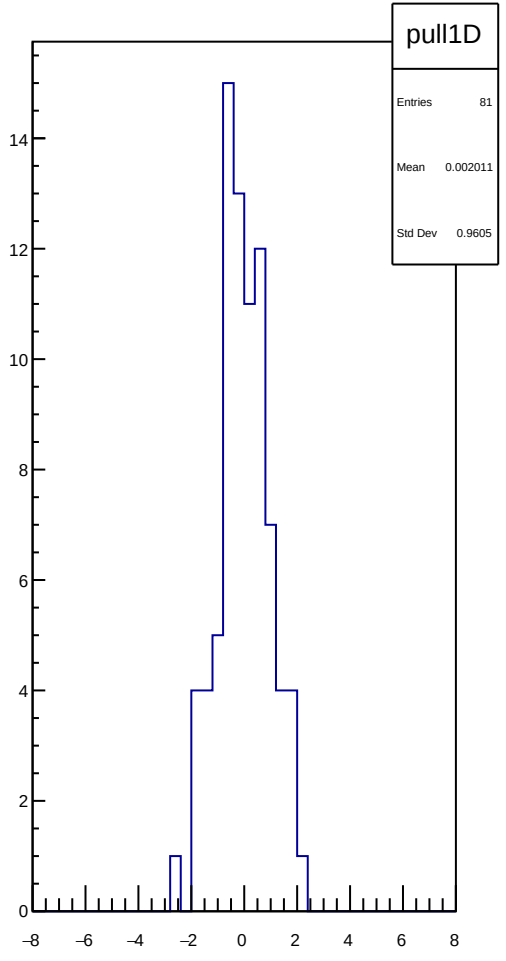

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.68 / 80
p0 −56.58 ± 3.974
pull
Entries 81
Mean 242.8
Std Dev 0

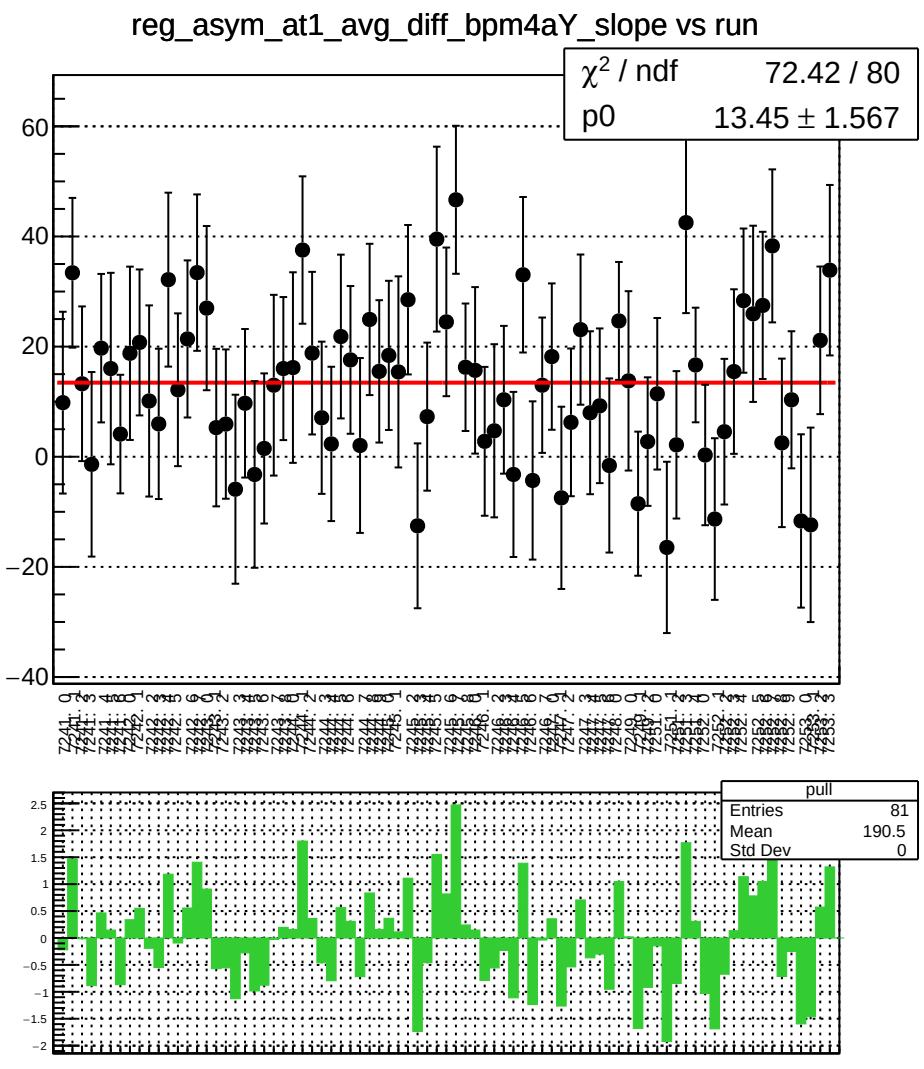

pull1D
Entries 81
Mean −0.002304
Std Dev 0.4399

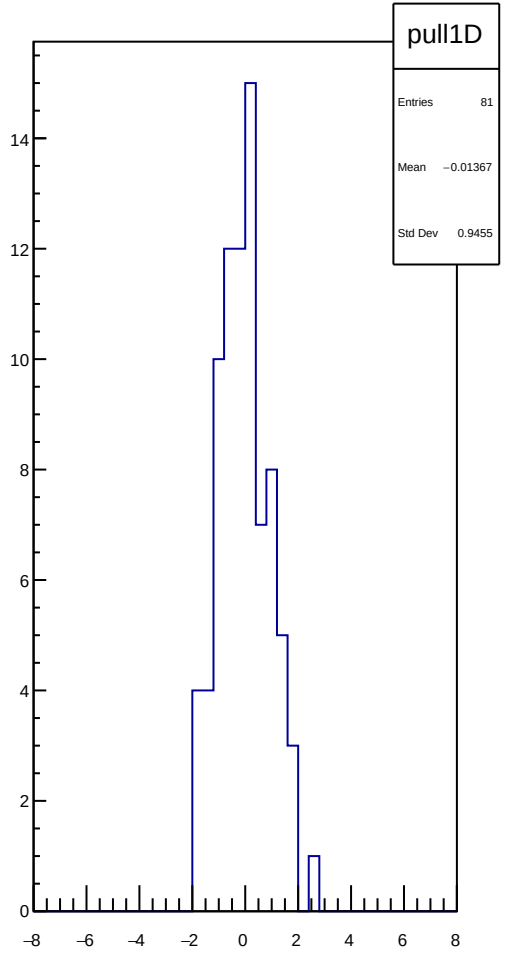

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 21.57 / 80
p0 116.6 ± 0.1775
pull
Entries 81
Mean −333.5
Std Dev 0

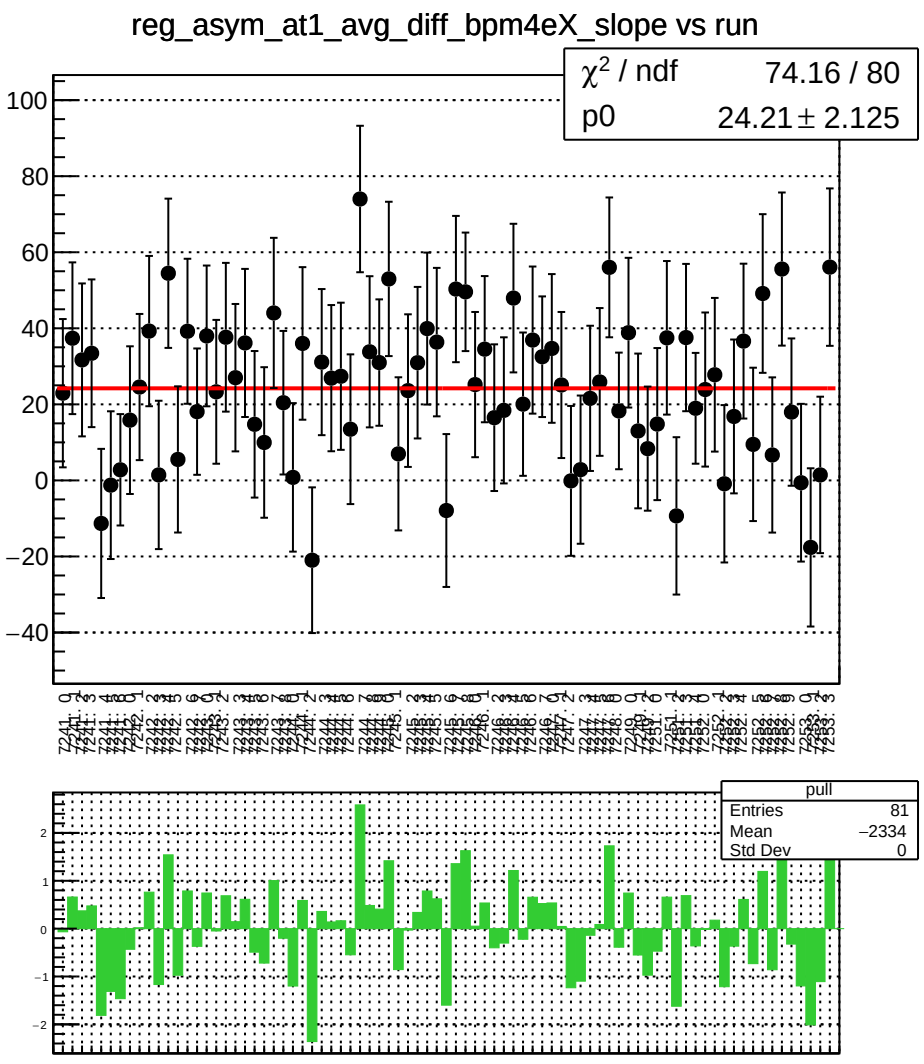

pull1D
Entries 81
Mean 0.01011
Std Dev 0.5159

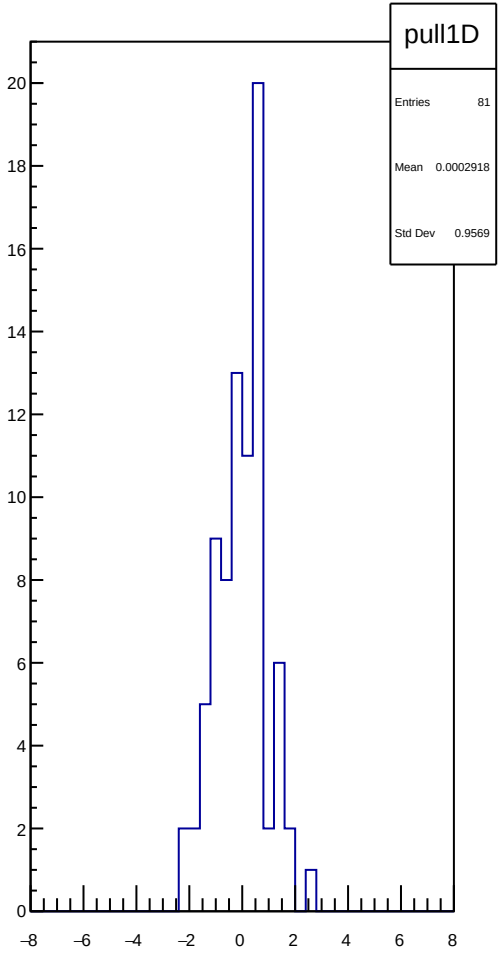

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 74.72 / 80
p0 −34.74 ± 2.046
pull
Entries 81
Mean −41.42
Std Dev 198.2

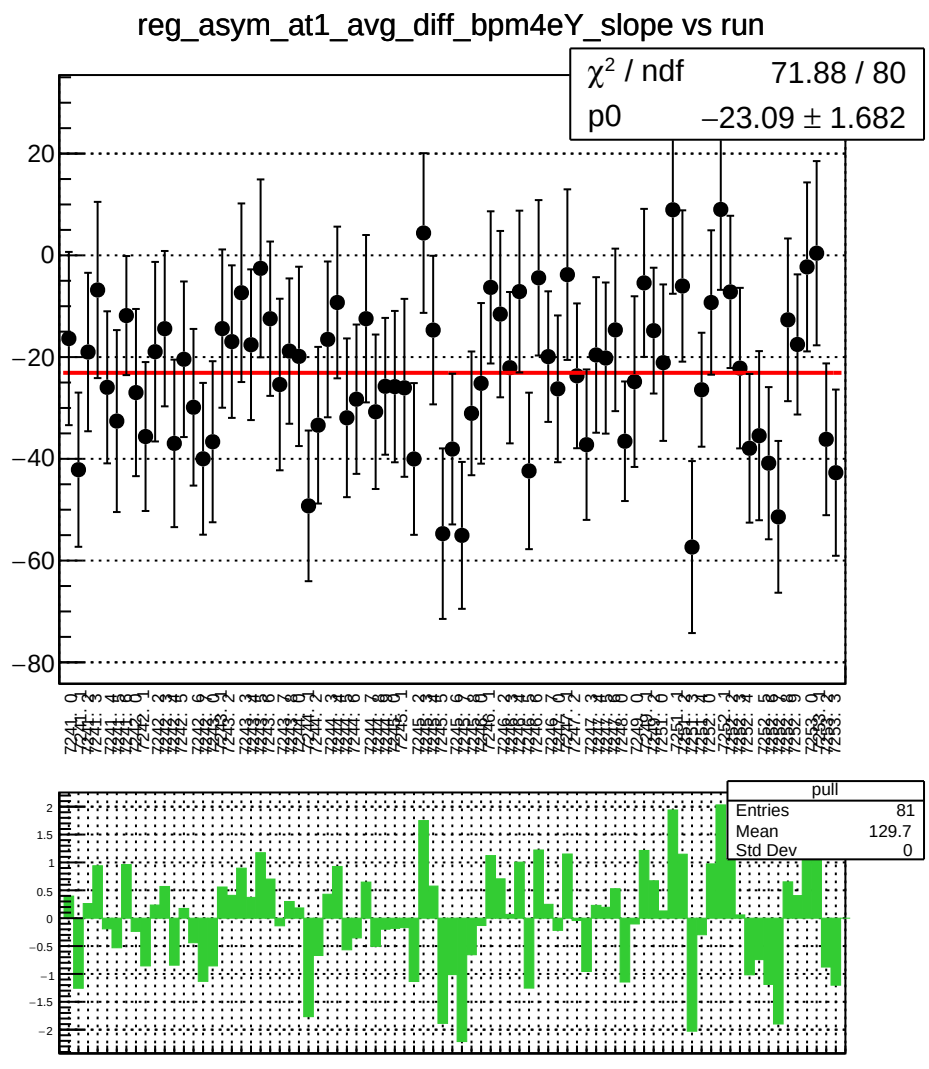

pull1D
Entries 81
Mean 0.002011
Std Dev 0.9605

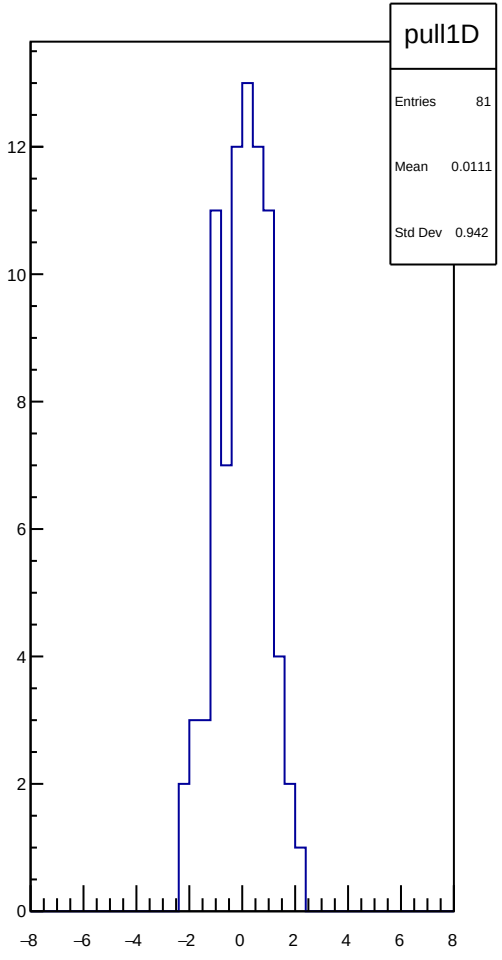

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 72.42 / 80
p0 13.45 ± 1.567
pull
Entries 81
Mean 190.5
Std Dev 0

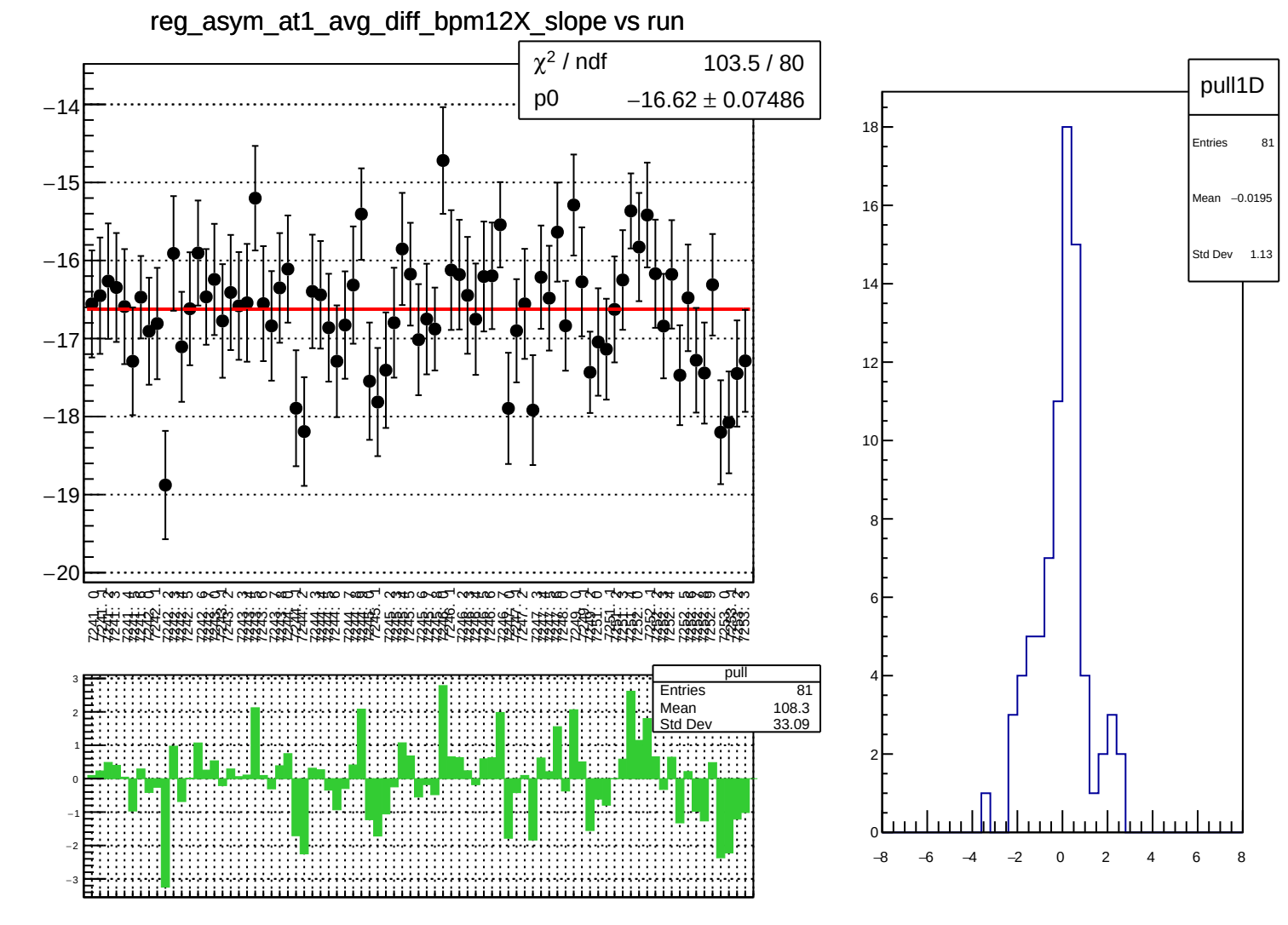

pull1D
Entries 81
Mean −0.01367
Std Dev 0.9455

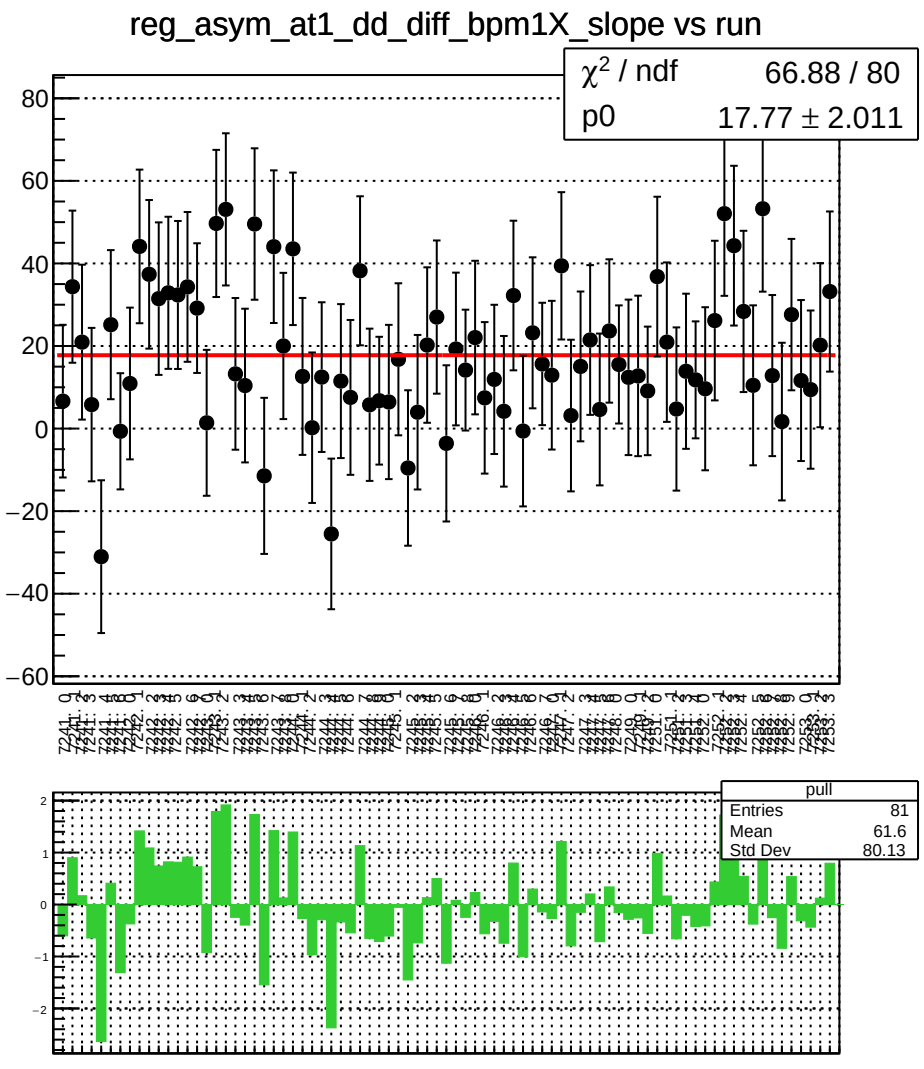

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 74.16 / 80
p0 24.21 ± 2.125
pull
Entries 81
Mean −2334
Std Dev 0

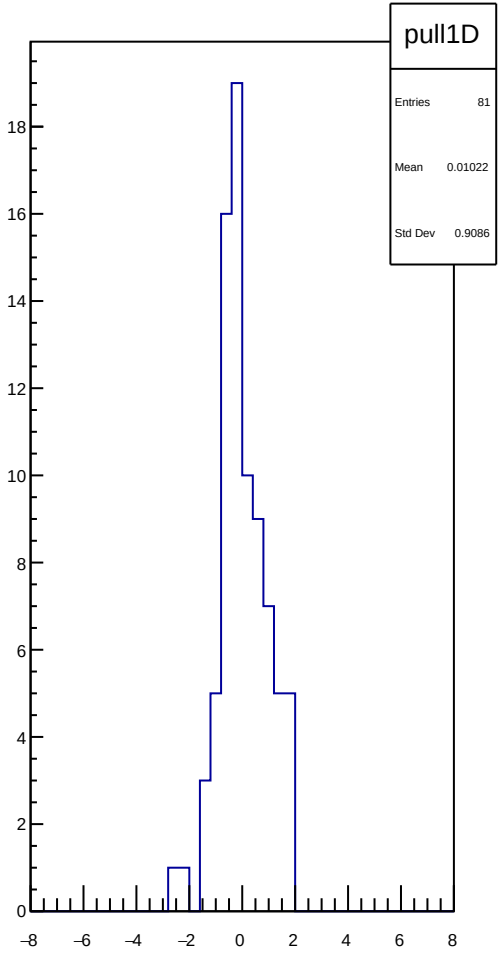

pull1D
Entries 81
Mean 0.0002918
Std Dev 0.9569

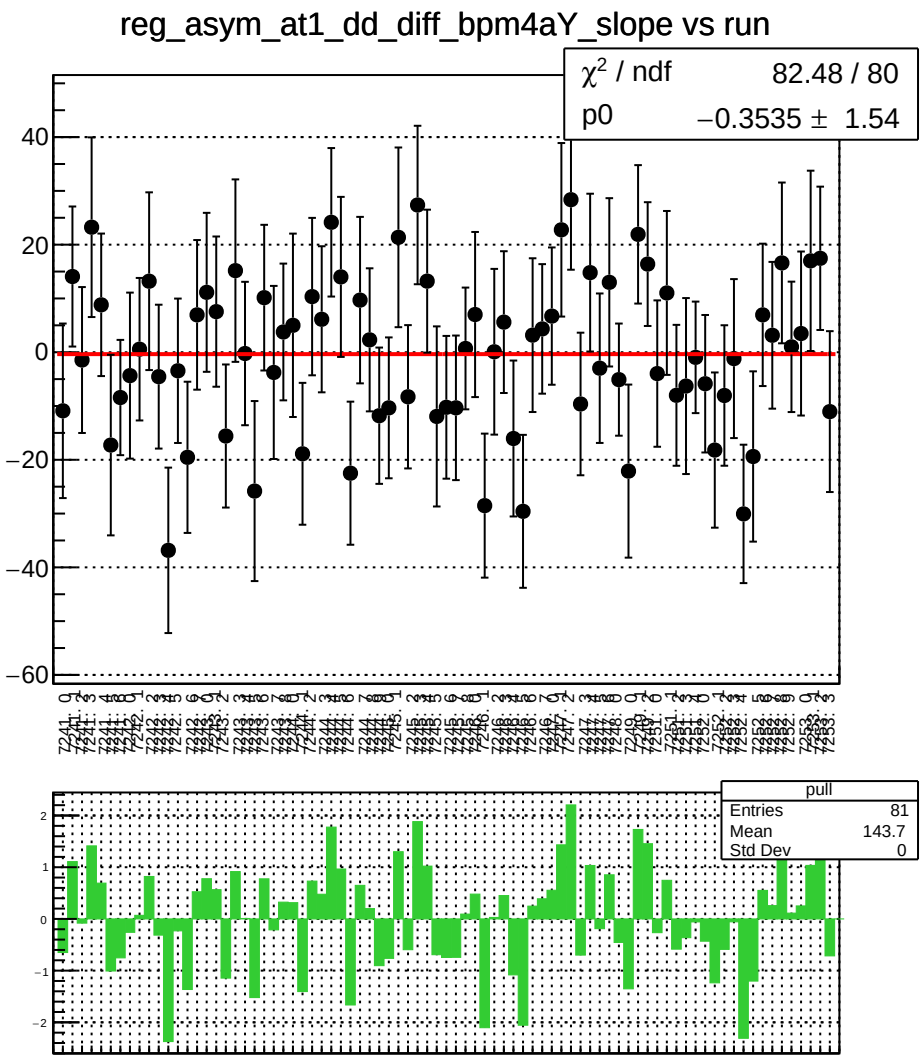

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 71.88 / 80
p0 −23.09 ± 1.682
pull
Entries 81
Mean 129.7
Std Dev 0

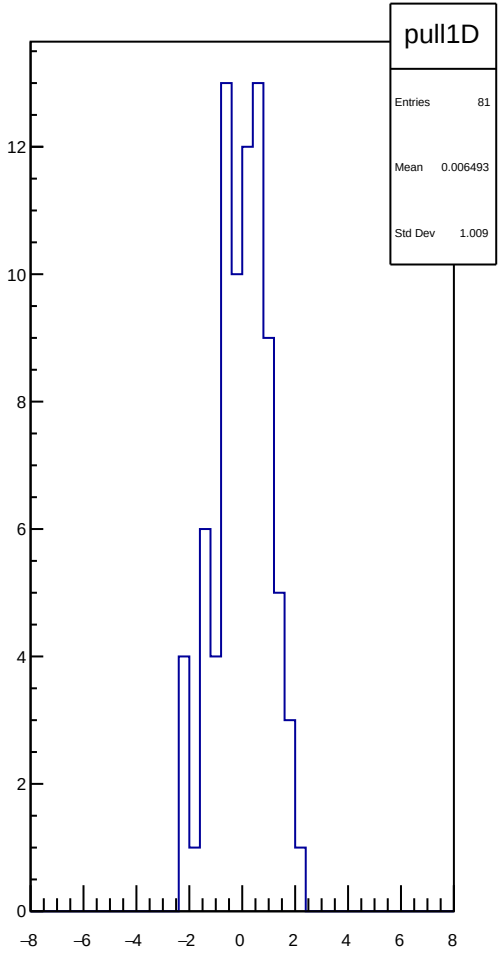

pull1D
Entries 81
Mean 0.0111
Std Dev 0.942

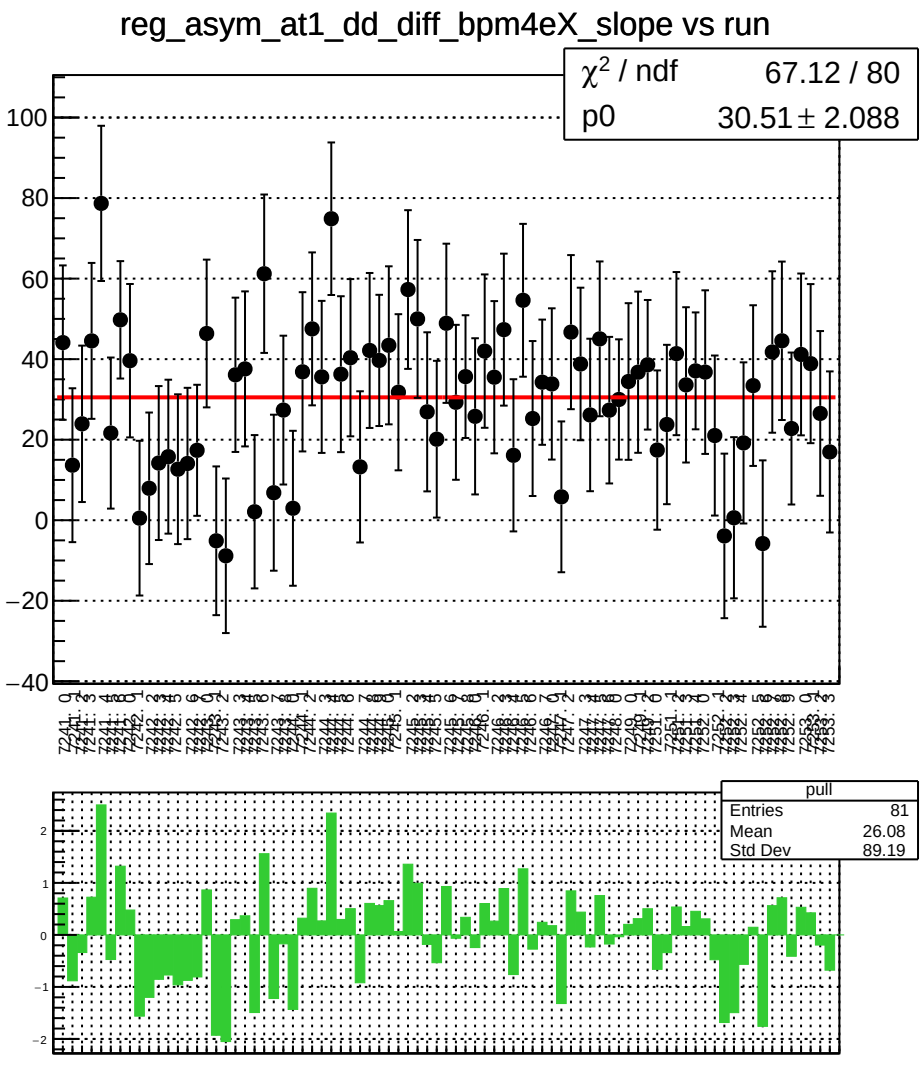

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 103.5 / 80
p0 −16.62 ± 0.07486
pull
Entries 81
Mean 108.3
Std Dev 33.09
pull1D
Entries 81
Mean −0.0195
Std Dev 1.13

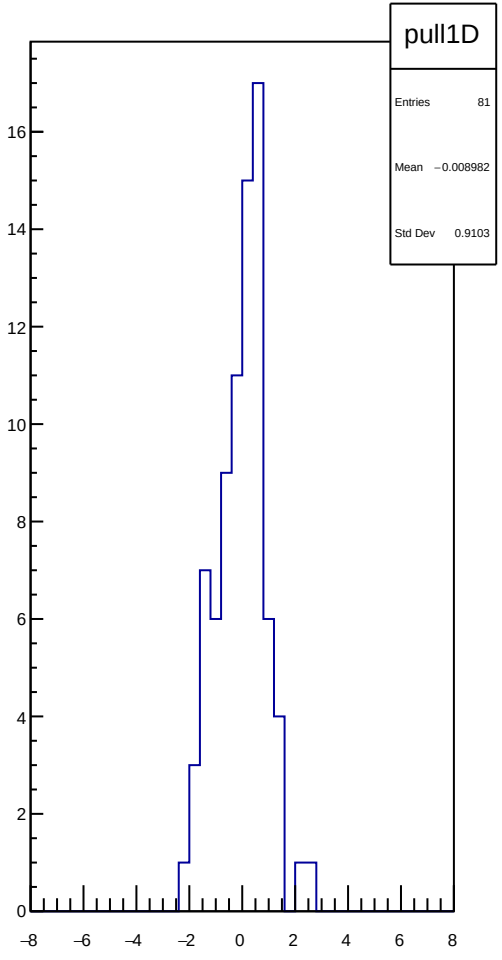

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 66.88 / 80
p0 17.77 ± 2.011
pull
Entries 81
Mean 61.6
Std Dev 80.13

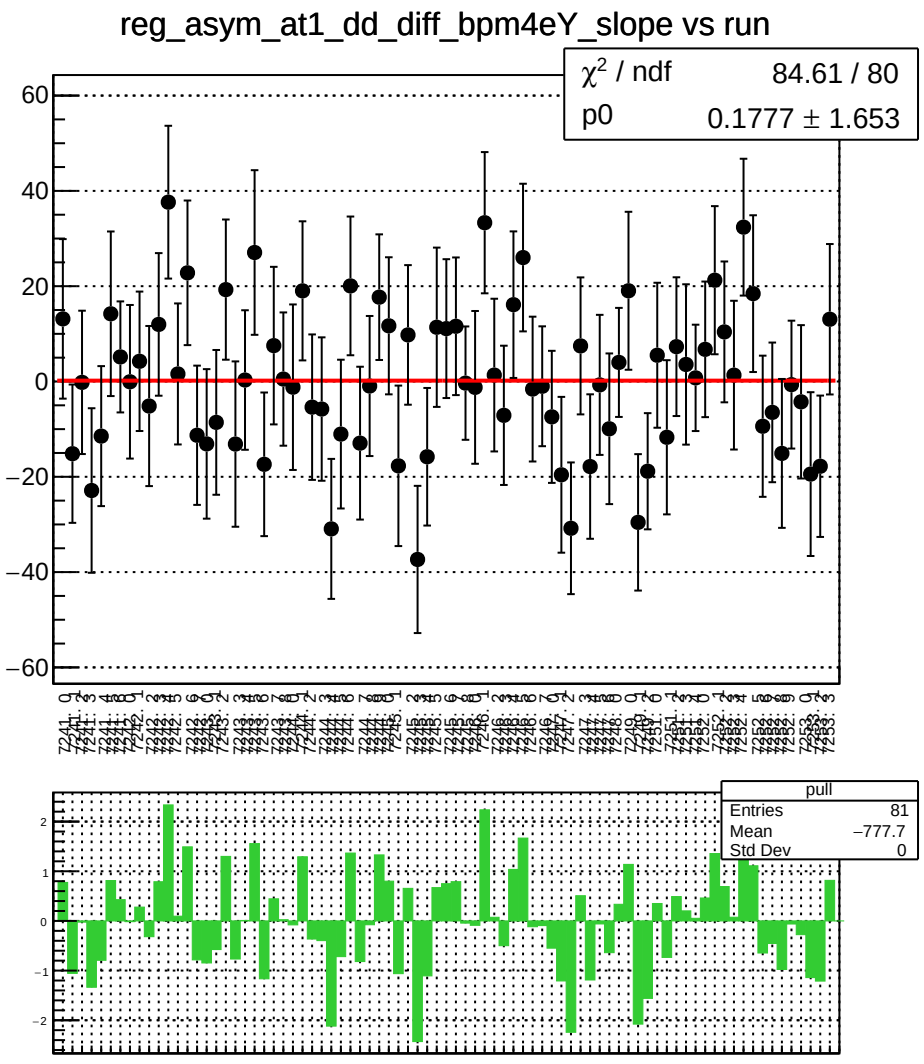

pull1D
Entries 81
Mean 0.01022
Std Dev 0.9086

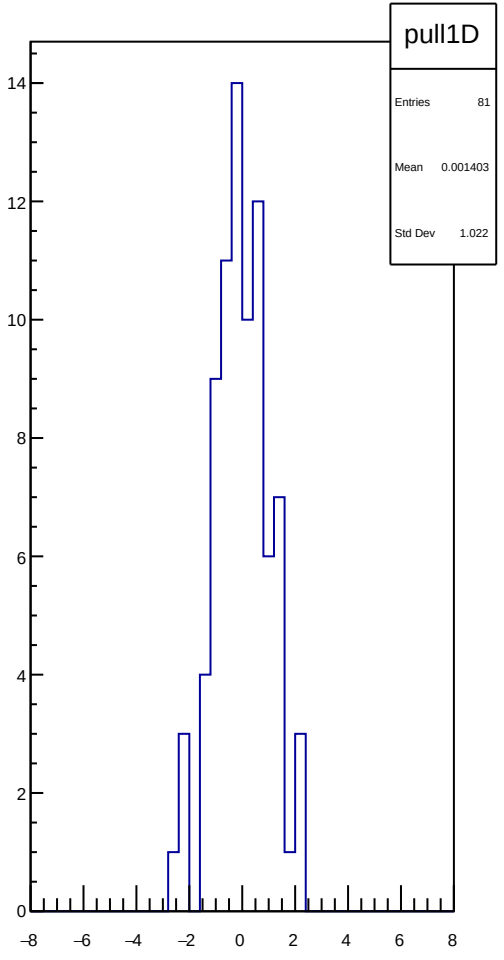

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 82.48 / 80
p0 −0.3535 ± 1.54
pull
Entries 81
Mean 143.7
Std Dev 0

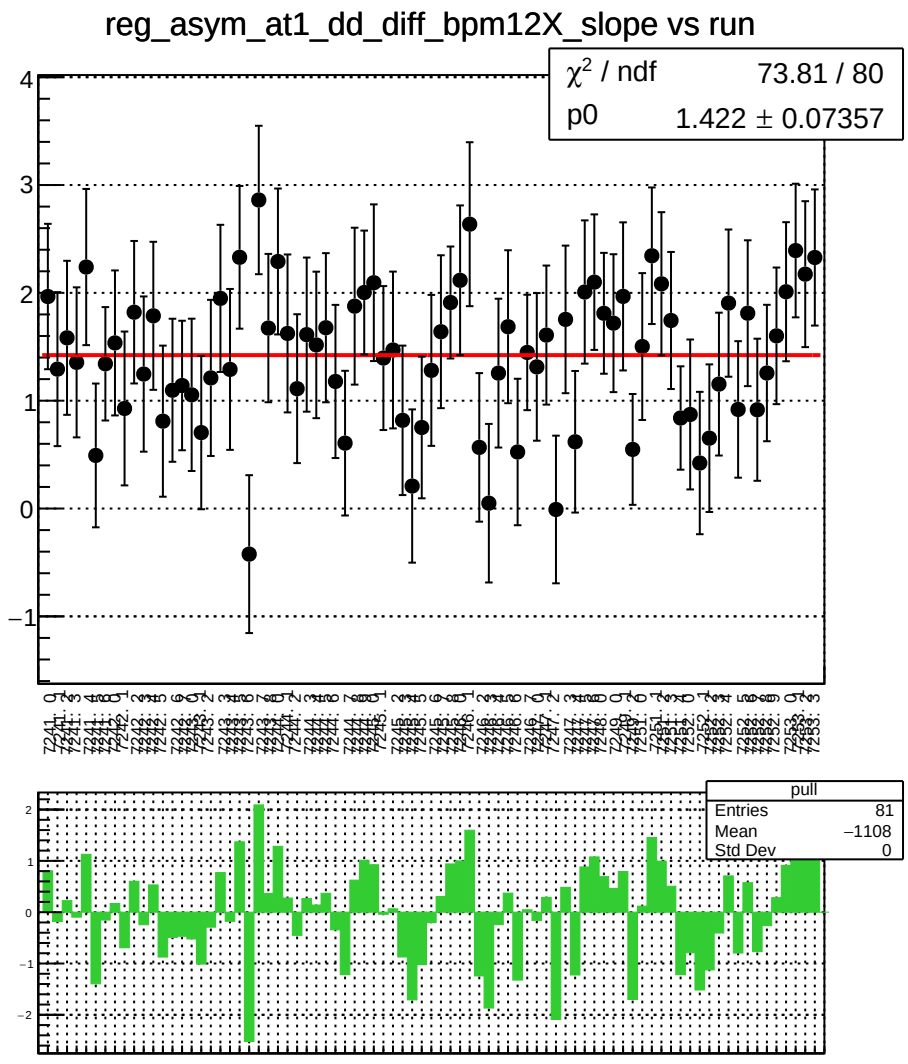

pull1D
Entries 81
Mean 0.006493
Std Dev 1.009

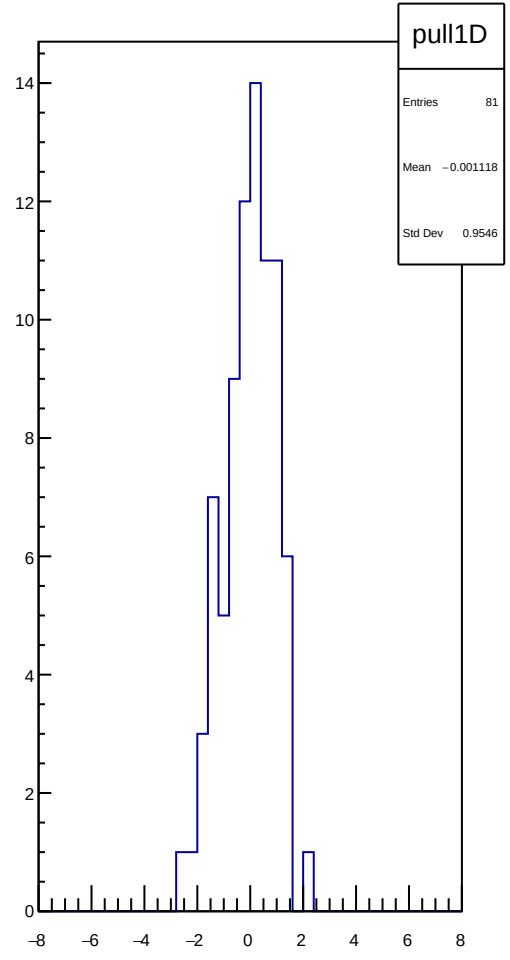

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 67.12 / 80
p0 30.51 ± 2.088
pull
Entries 81
Mean 26.08
Std Dev 89.19

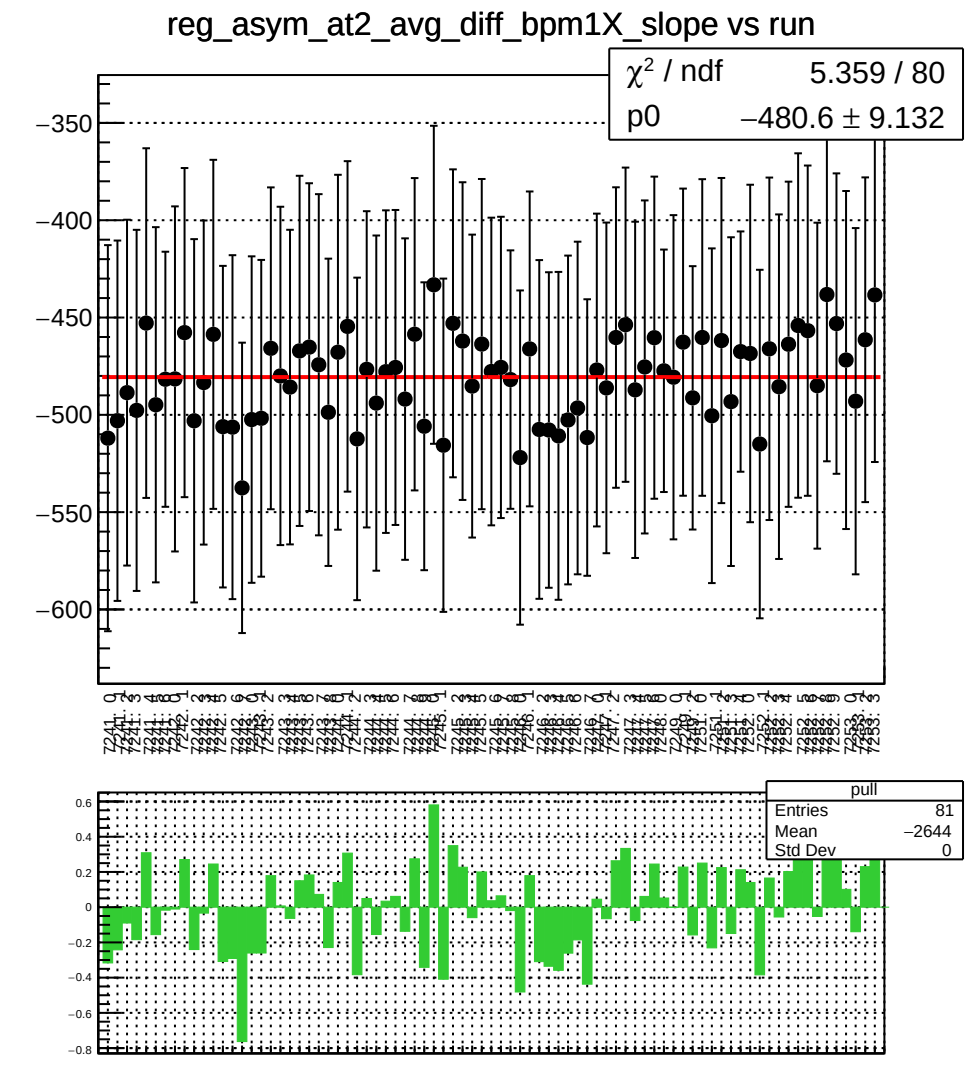

pull1D
Entries 81
Mean −0.008982
Std Dev 0.9103

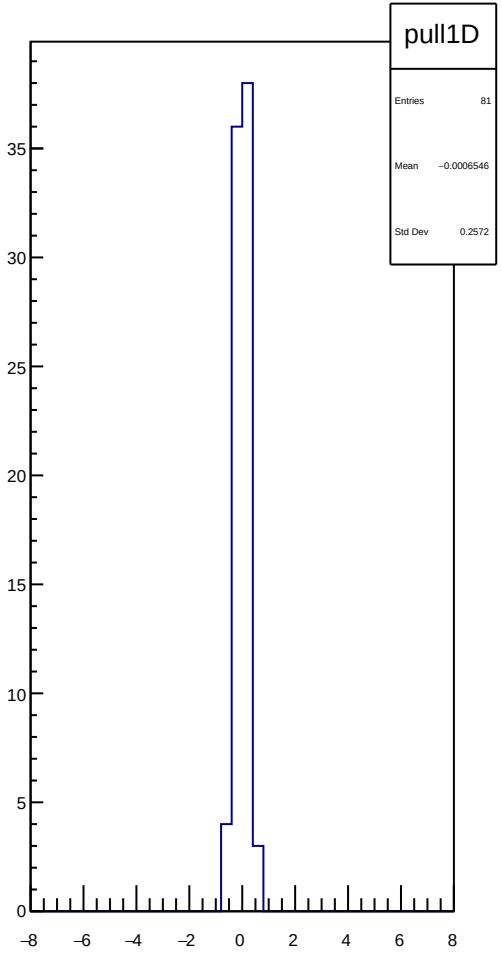

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 84.61 / 80
p0 0.1777 ± 1.653
pull
Entries 81
Mean −777.7
Std Dev 0

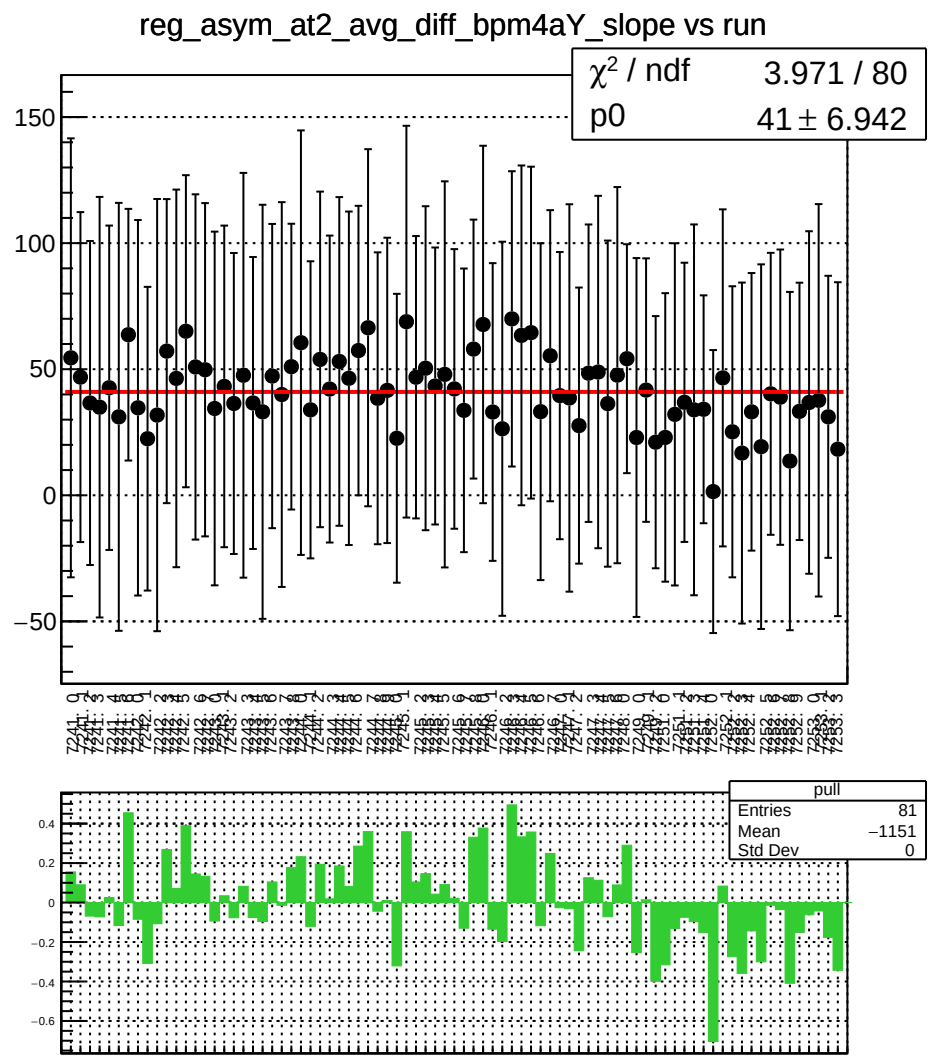

pull1D
Entries 81
Mean 0.001403
Std Dev 1.022

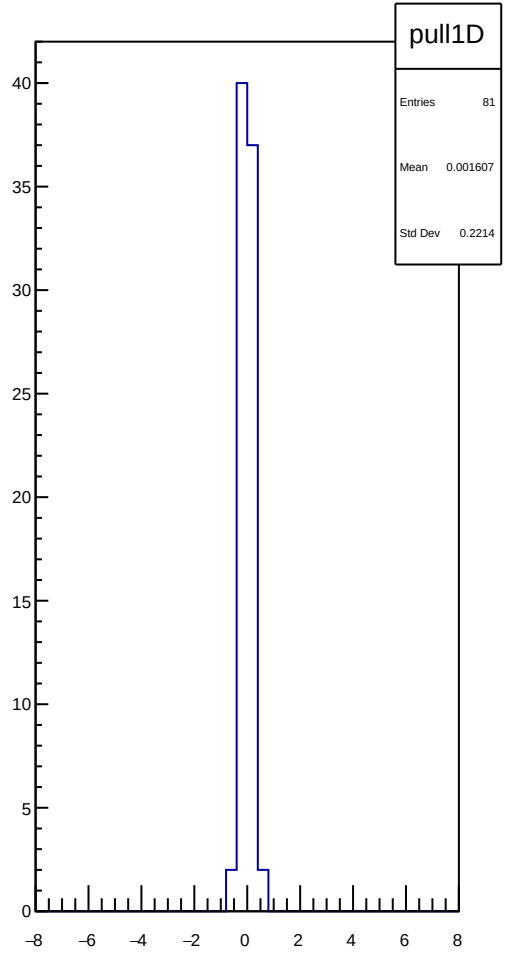

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 73.81 / 80
p0 1.422 ± 0.07357
pull
Entries 81
Mean −1108
Std Dev 0

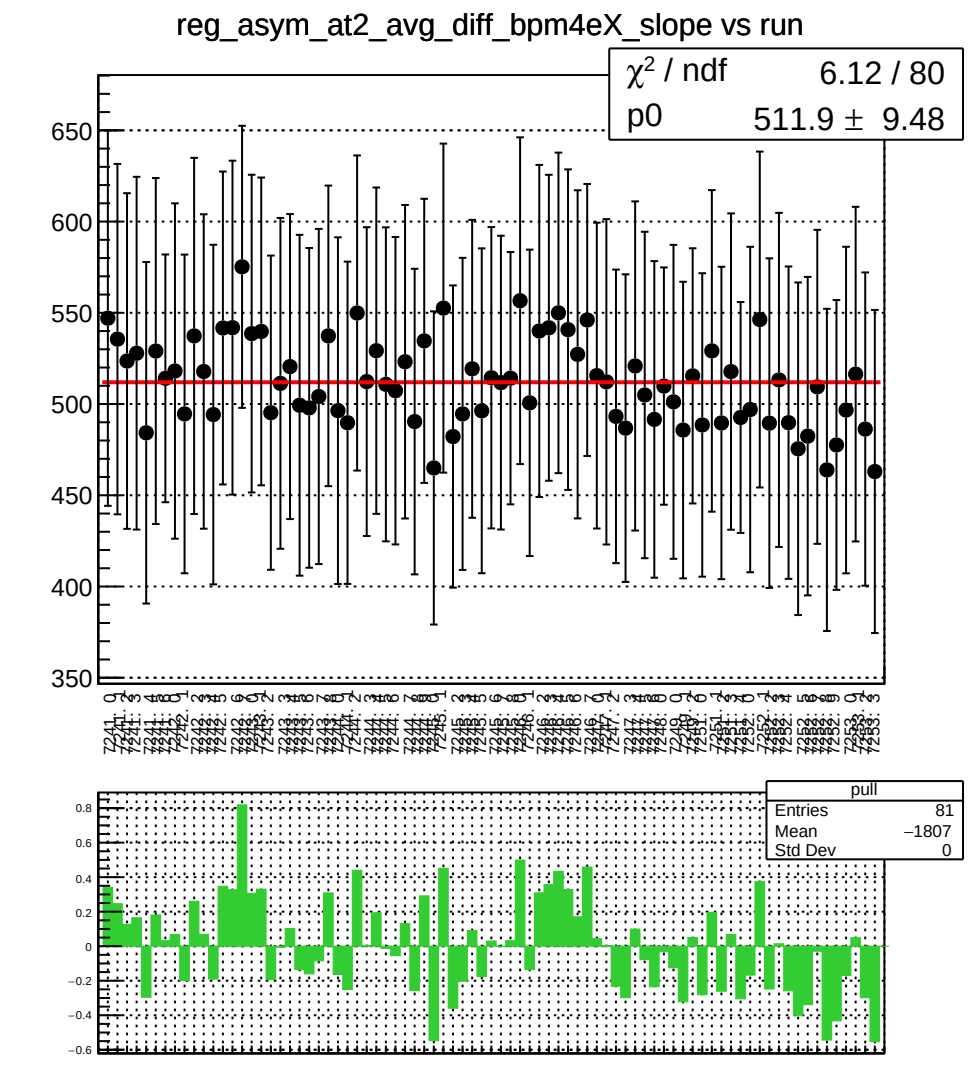

pull1D
Entries 81
Mean −0.001118
Std Dev 0.9546

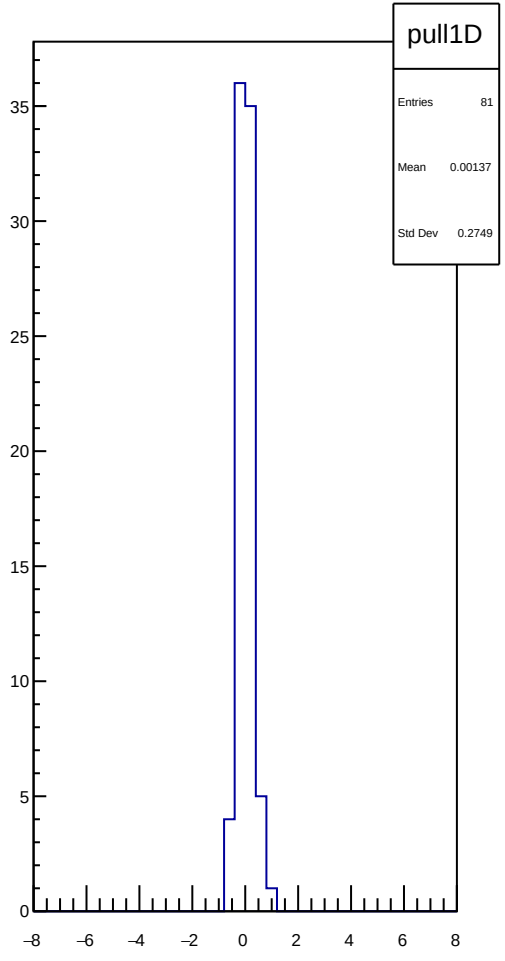

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 5.359 / 80
p0 −480.6 ± 9.132
pull
Entries 81
Mean −2644
Std Dev 0

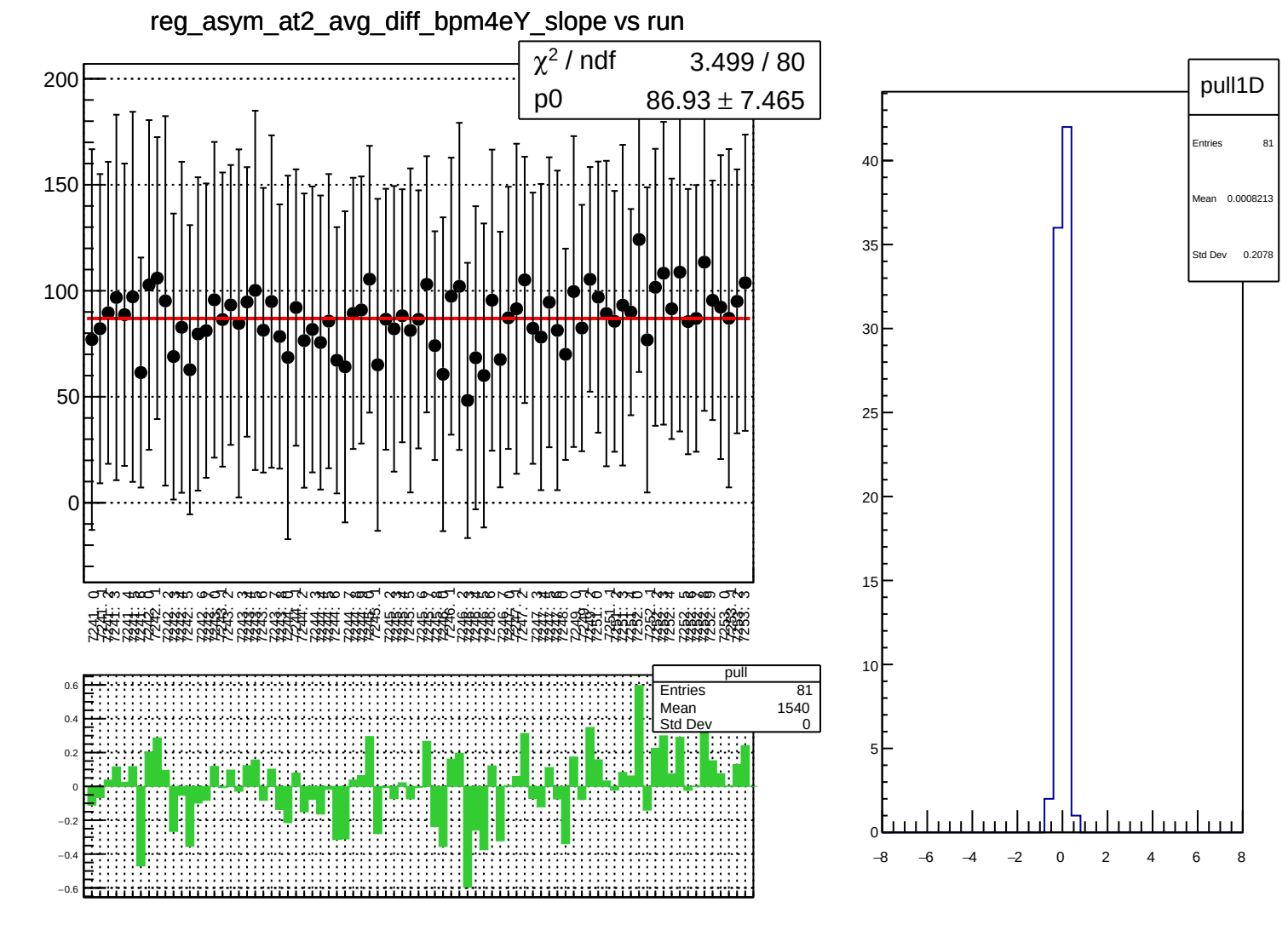

pull1D
Entries 81
Mean −0.0006546
Std Dev 0.2572

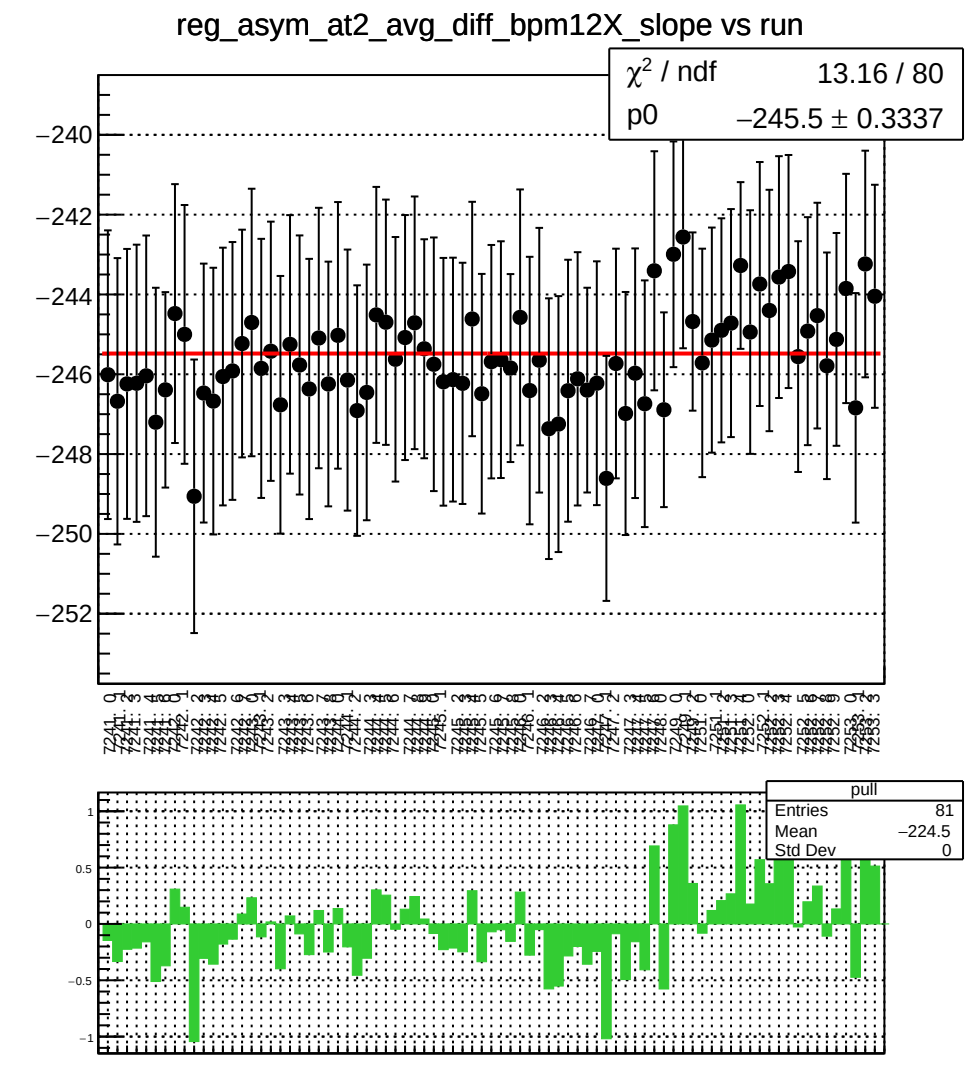

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.971 / 80
p0 41 ± 6.942
150
100
50
0
−50
pull
Entries 81
Mean −1151
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6

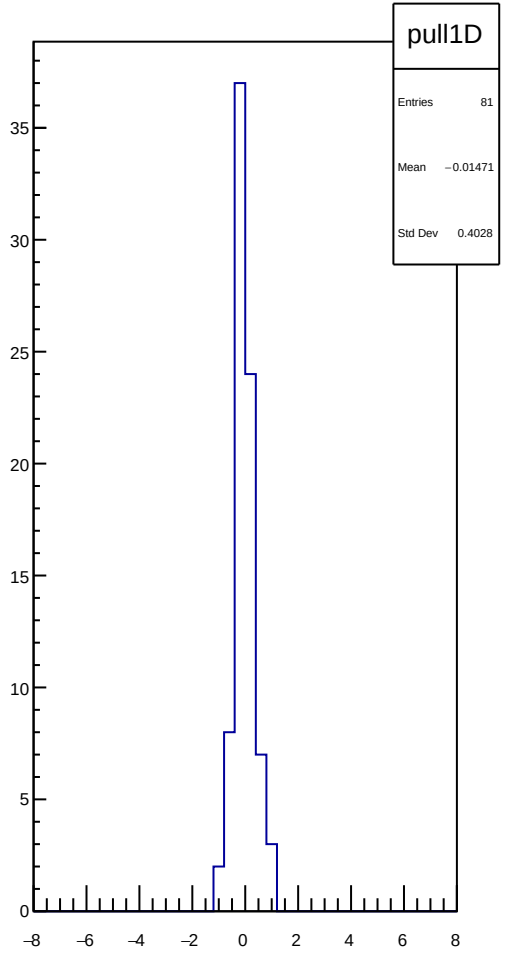

pull1D
Entries 81
Mean 0.001607
Std Dev 0.2214
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

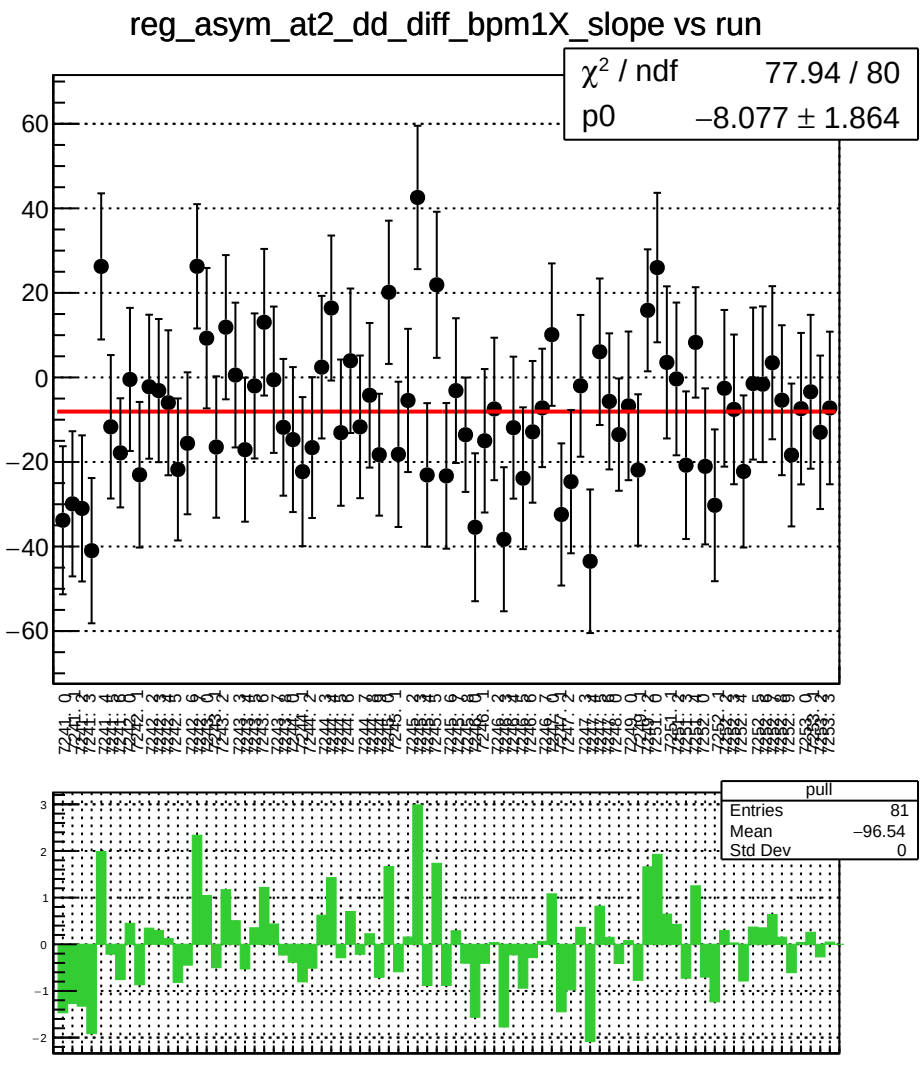

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.12 / 80
p0 511.9 ± 9.48
650
600
550
500
450
400
350
pull
Entries 81
Mean −1807
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

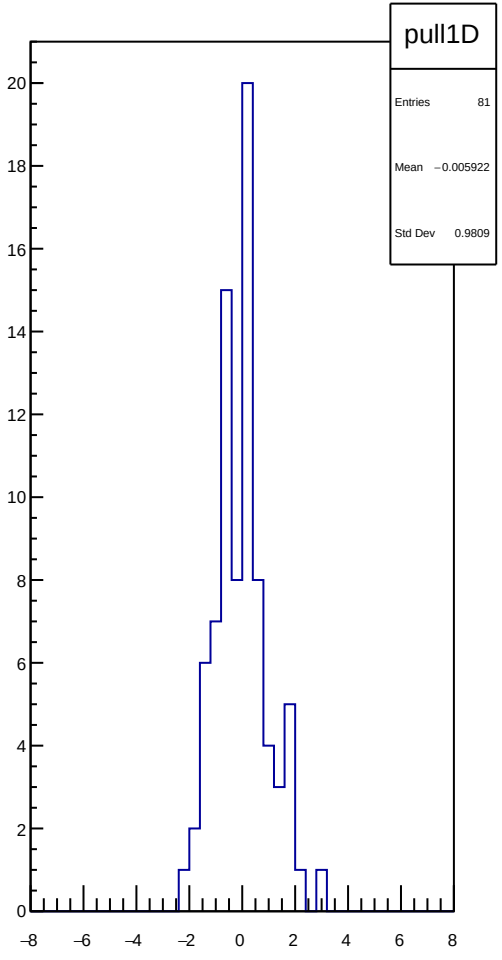

pull1D
Entries 81
Mean 0.00137
Std Dev 0.2749
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

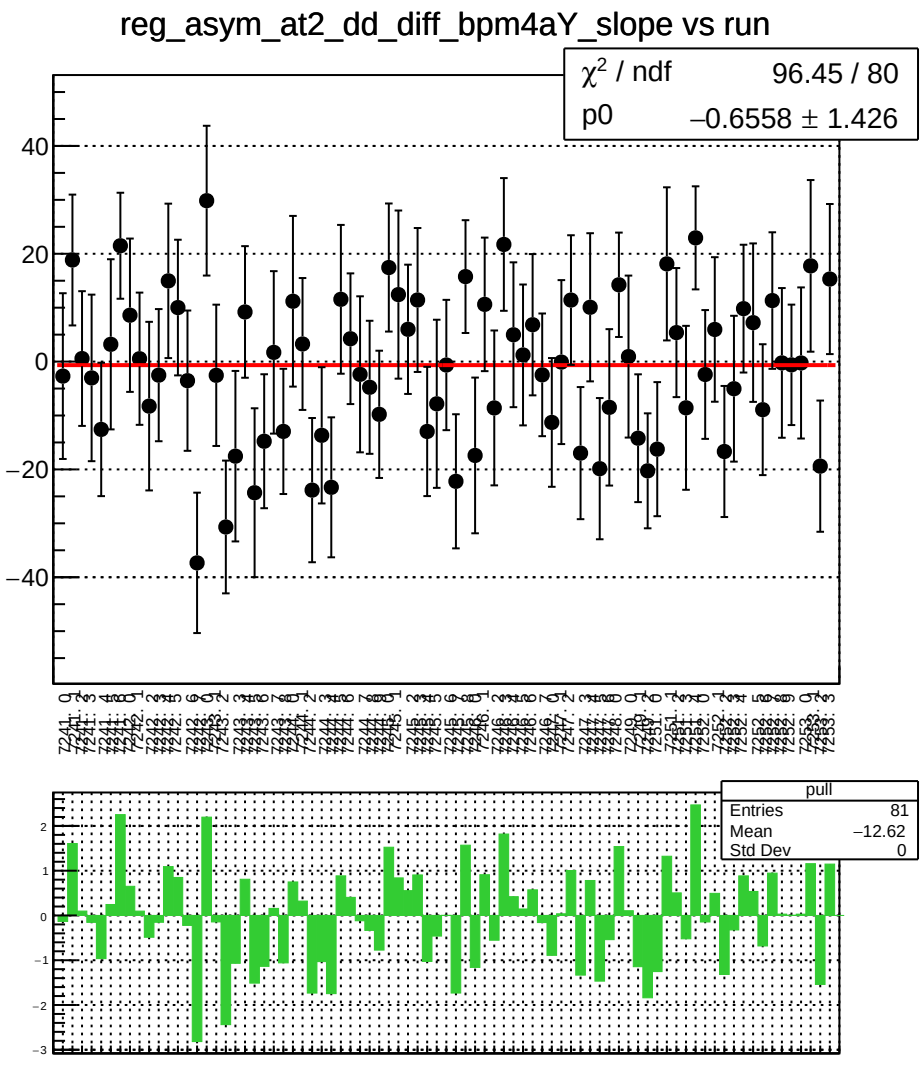

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.499 / 80
p0 86.93 ± 7.465
200
150
100
50
0
pull
Entries 81
Mean 1540
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 81
Mean 0.0008213
Std Dev 0.2078
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

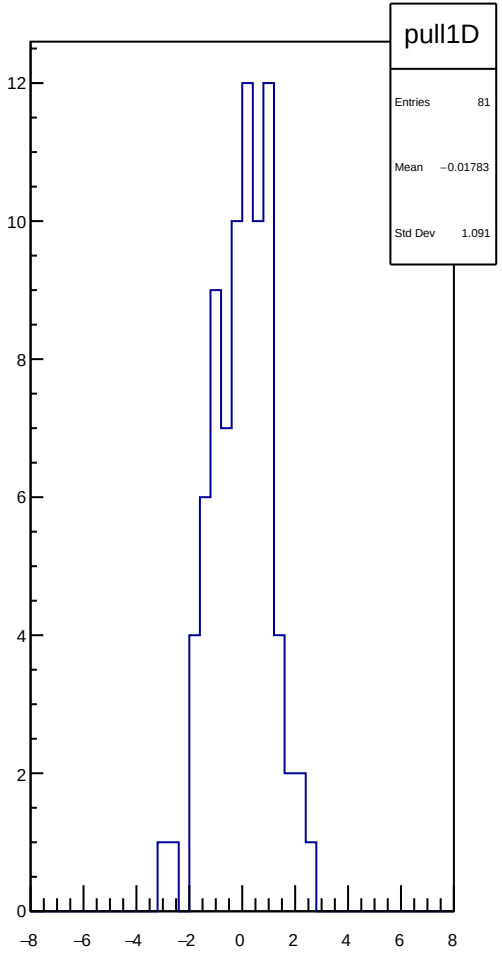

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 13.16 / 80
p0 −245.5 ± 0.3337
−240
−242
−244
−246
−248
−250
−252
pull
Entries 81
Mean −224.5
Std Dev 0
1
0.5
0
−0.5
−1

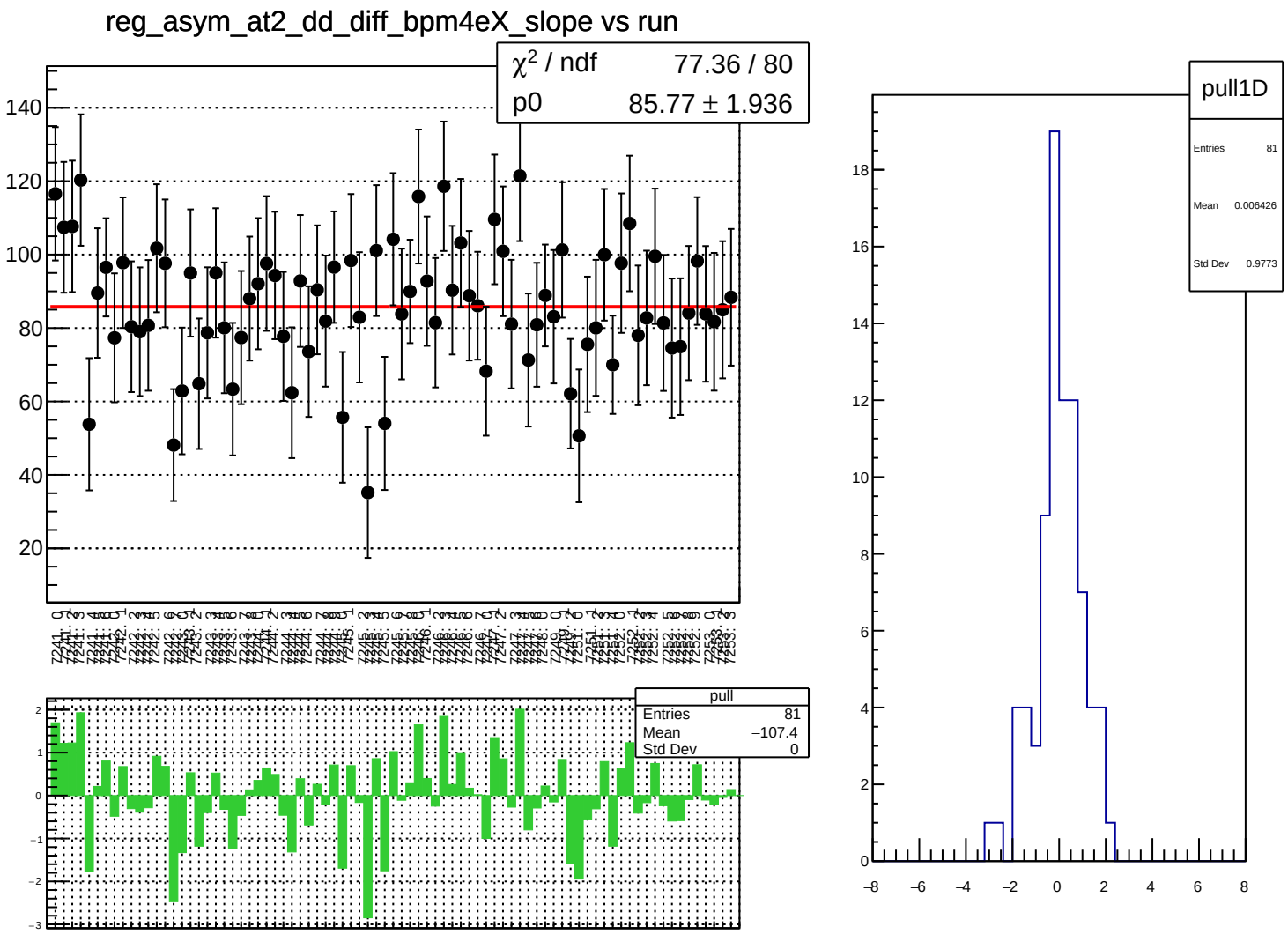

pull1D
Entries 81
Mean −0.01471
Std Dev 0.4028
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

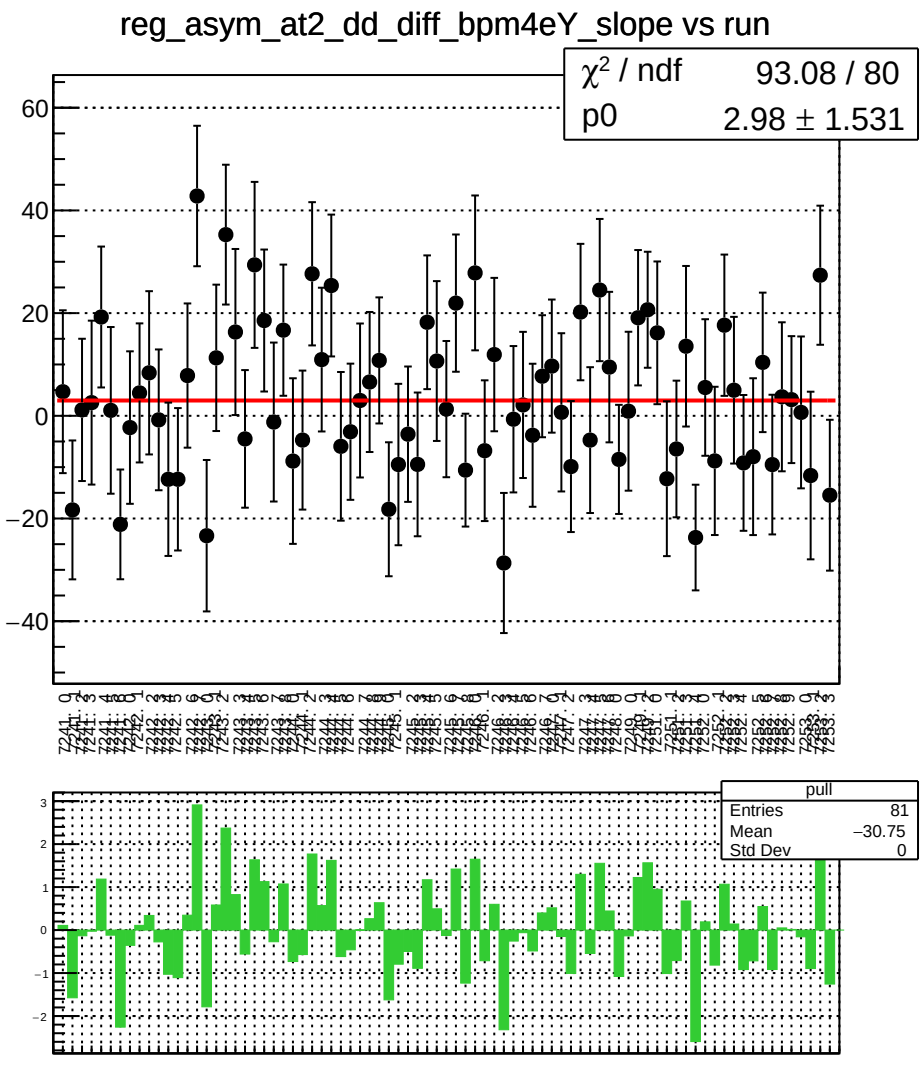

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 77.94 / 80
p0 −8.077 ± 1.864
pull
Entries 81
Mean −96.54
Std Dev 0

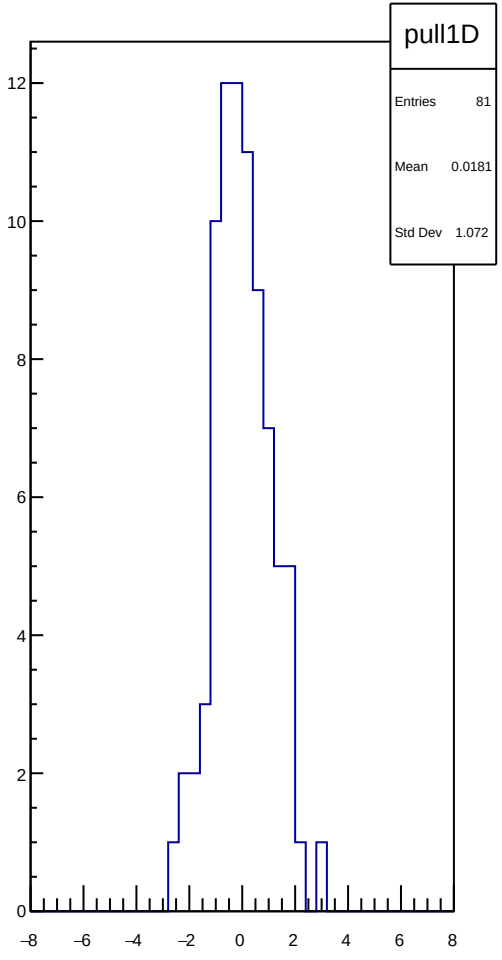

pull1D
Entries 81
Mean −0.005922
Std Dev 0.9809

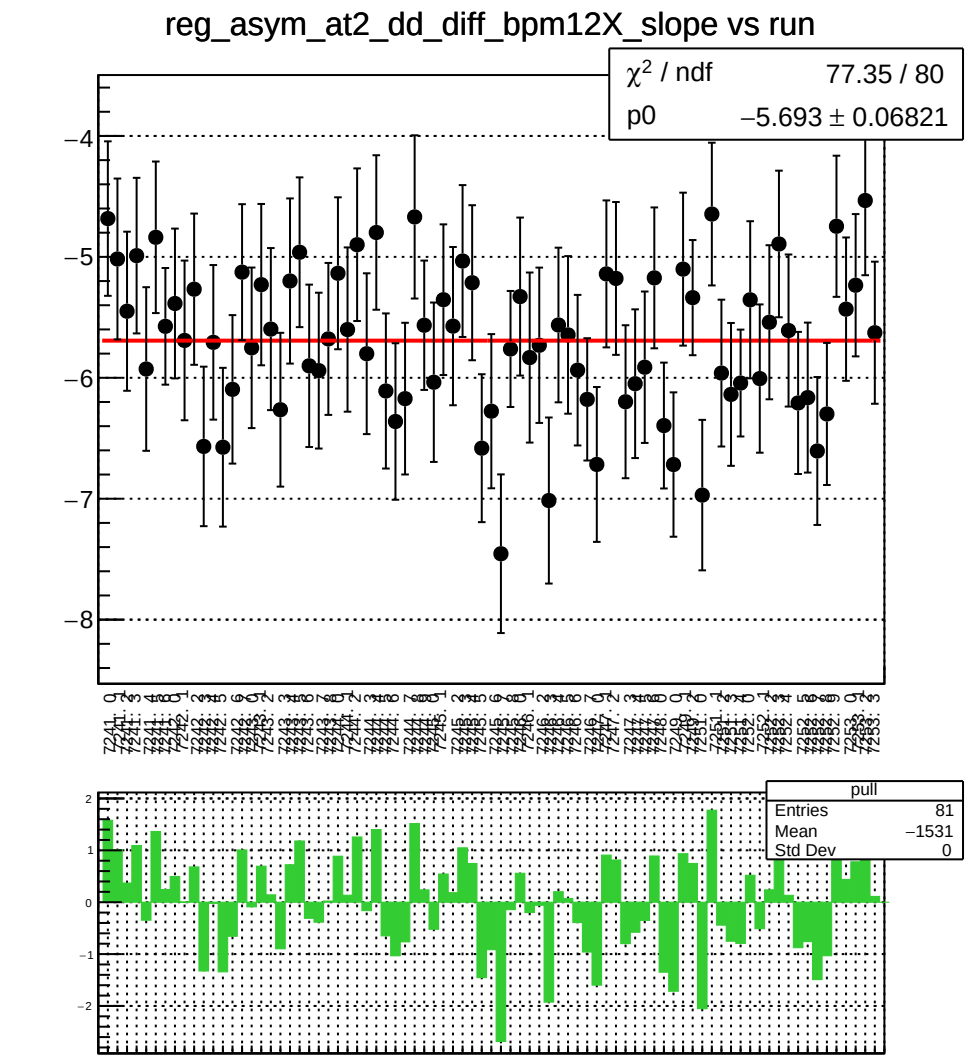

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 96.45 / 80
p0 −0.6558 ± 1.426
pull
Entries 81
Mean −12.62
Std Dev 0

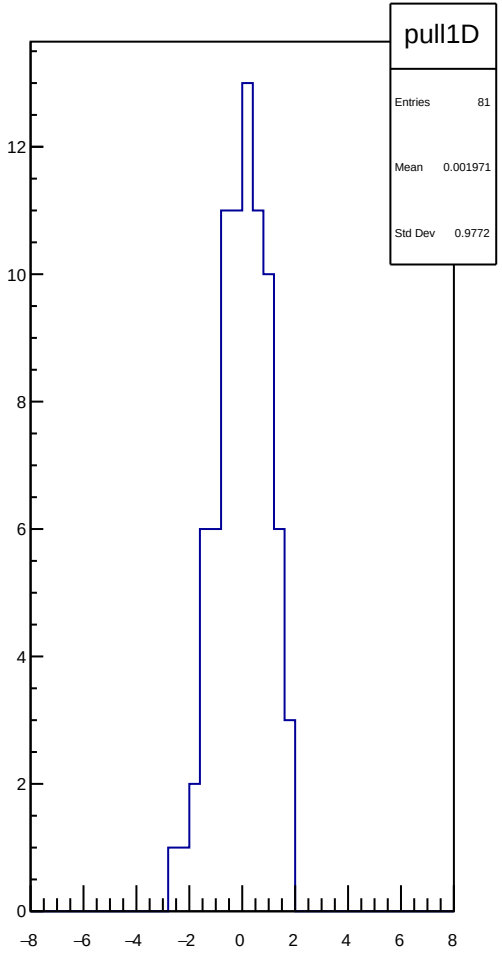

pull1D
Entries 81
Mean −0.01783
Std Dev 1.091

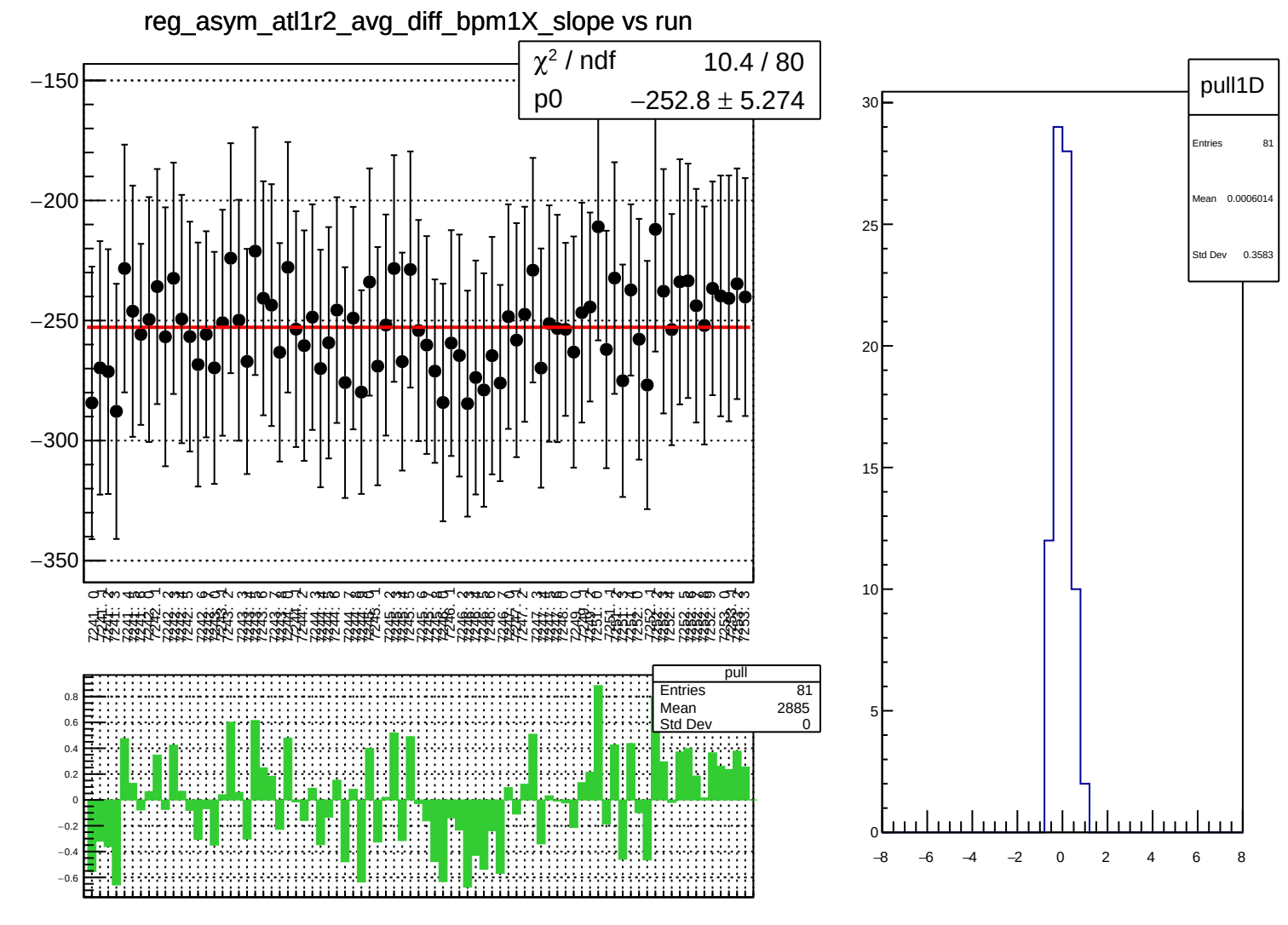

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 77.36 / 80
p0 85.77 ± 1.936
pull
Entries 81
Mean −107.4
Std Dev 0
pull1D
Entries 81
Mean 0.006426
Std Dev 0.9773

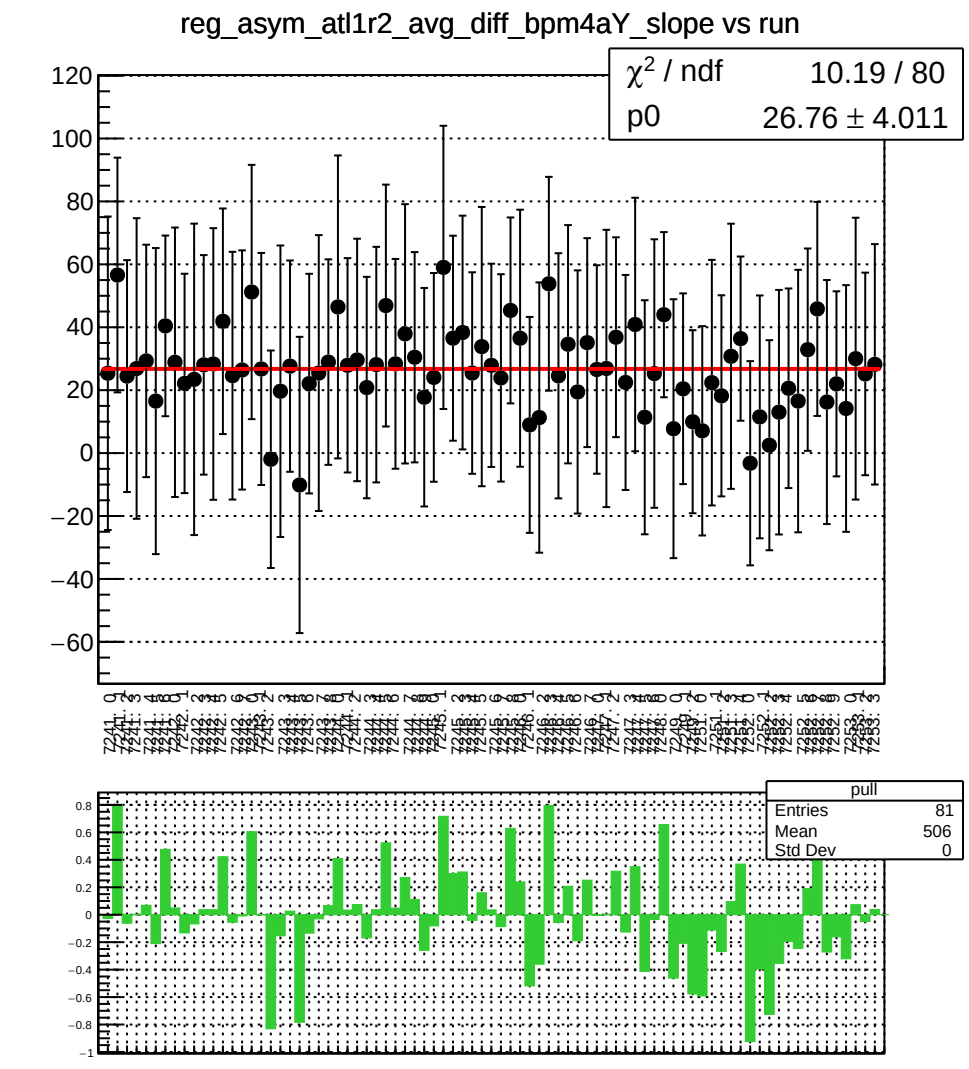

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 93.08 / 80
p0 2.98 ± 1.531
pull
Entries 81
Mean −30.75
Std Dev 0

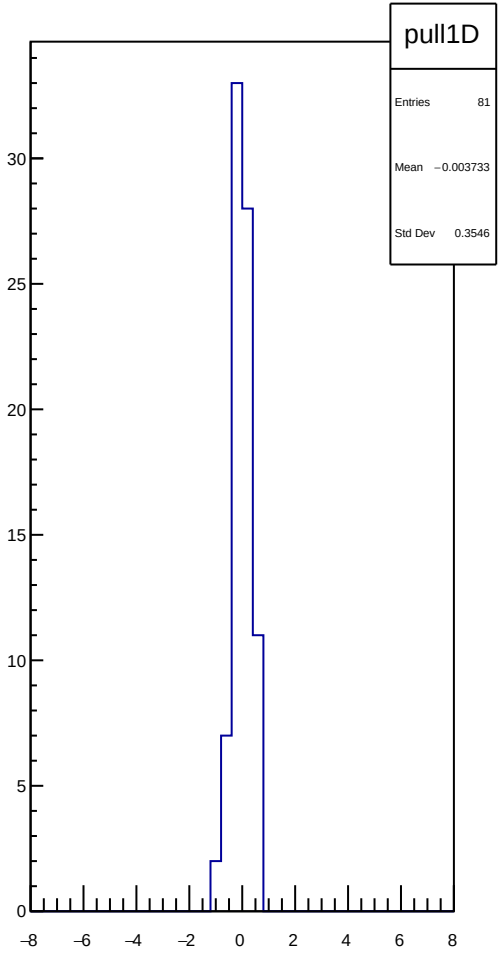

pull1D
Entries 81
Mean 0.0181
Std Dev 1.072

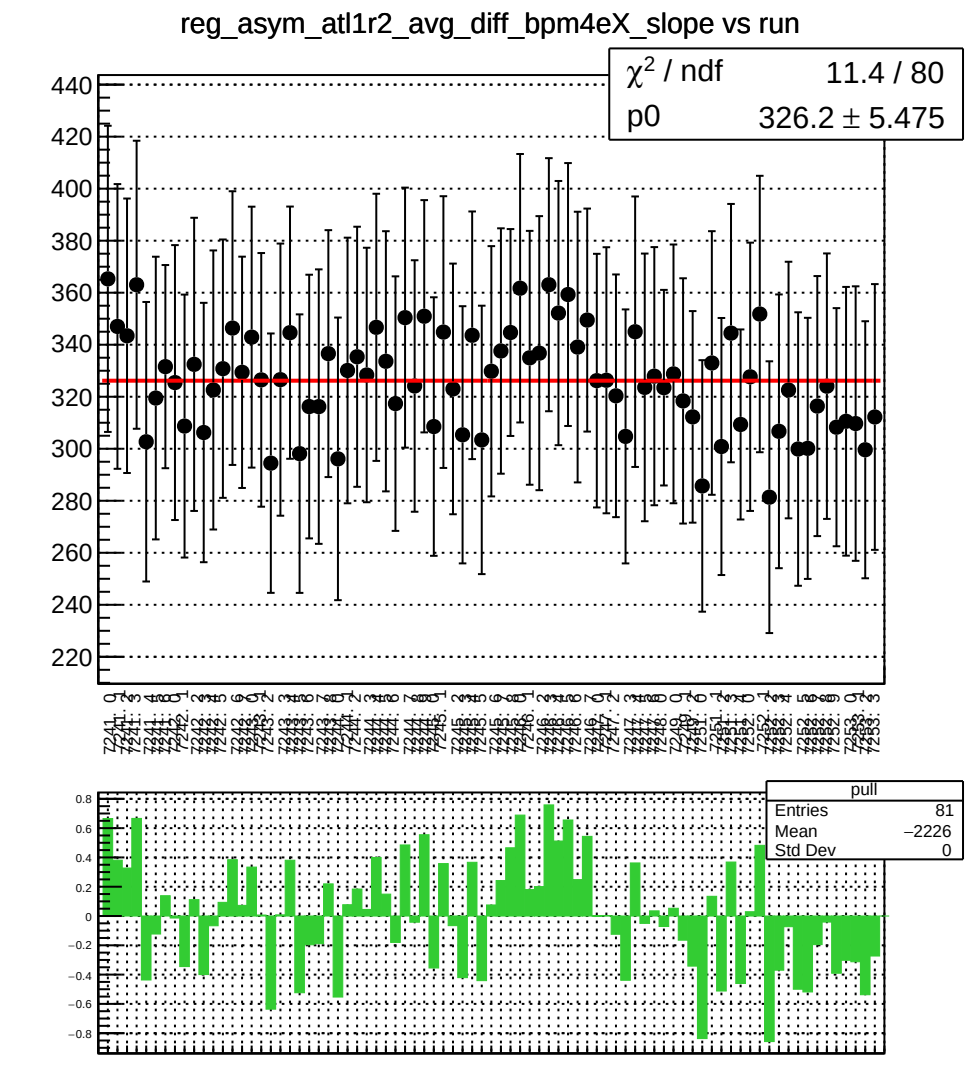

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 77.35 / 80
p0 −5.693 ± 0.06821
pull
Entries 81
Mean −1531
Std Dev 0

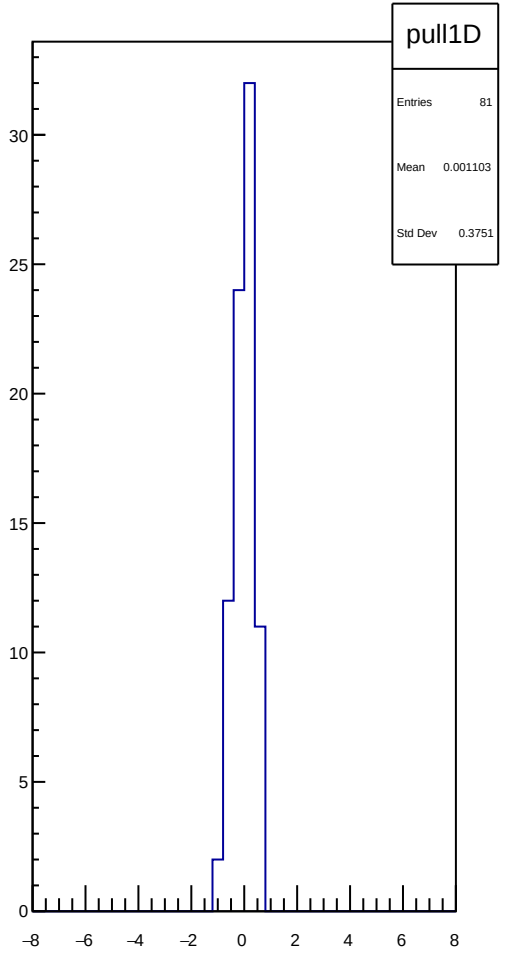

pull1D
Entries 81
Mean 0.001971
Std Dev 0.9772

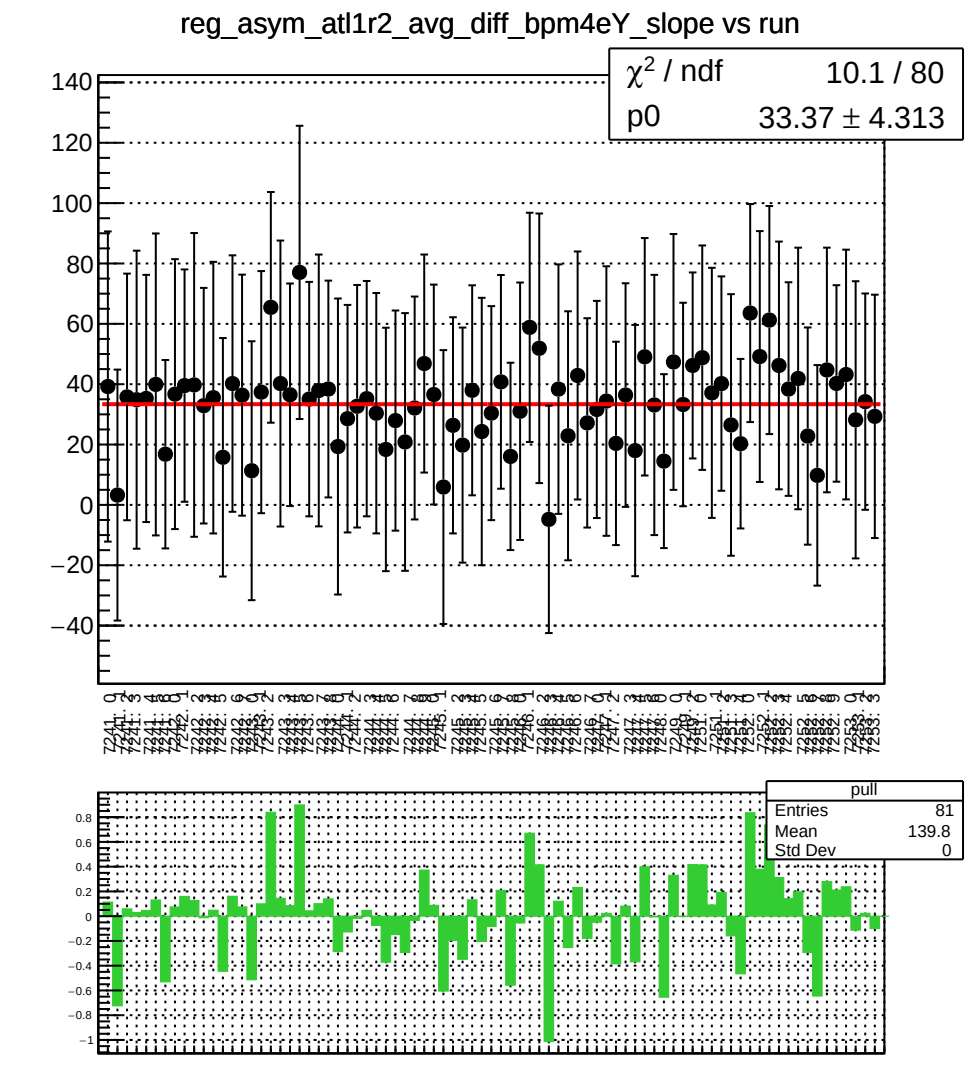

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 10.4 / 80
p0 −252.8 ± 5.274
−150
−200
−250
−300
−350
pull
Entries 81
Mean 2885
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 81
Mean 0.0006014
Std Dev 0.3583
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

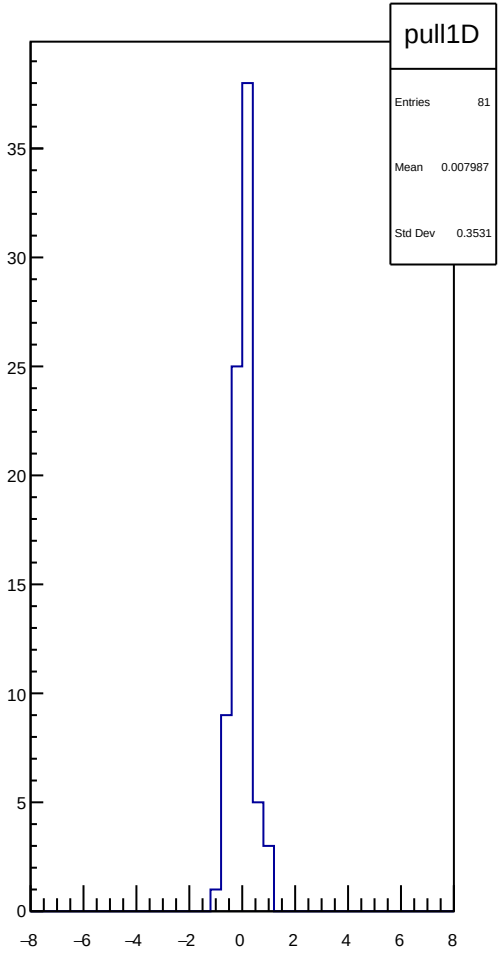

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.19 / 80
p0 26.76 ± 4.011
pull
Entries 81
Mean 506
Std Dev 0

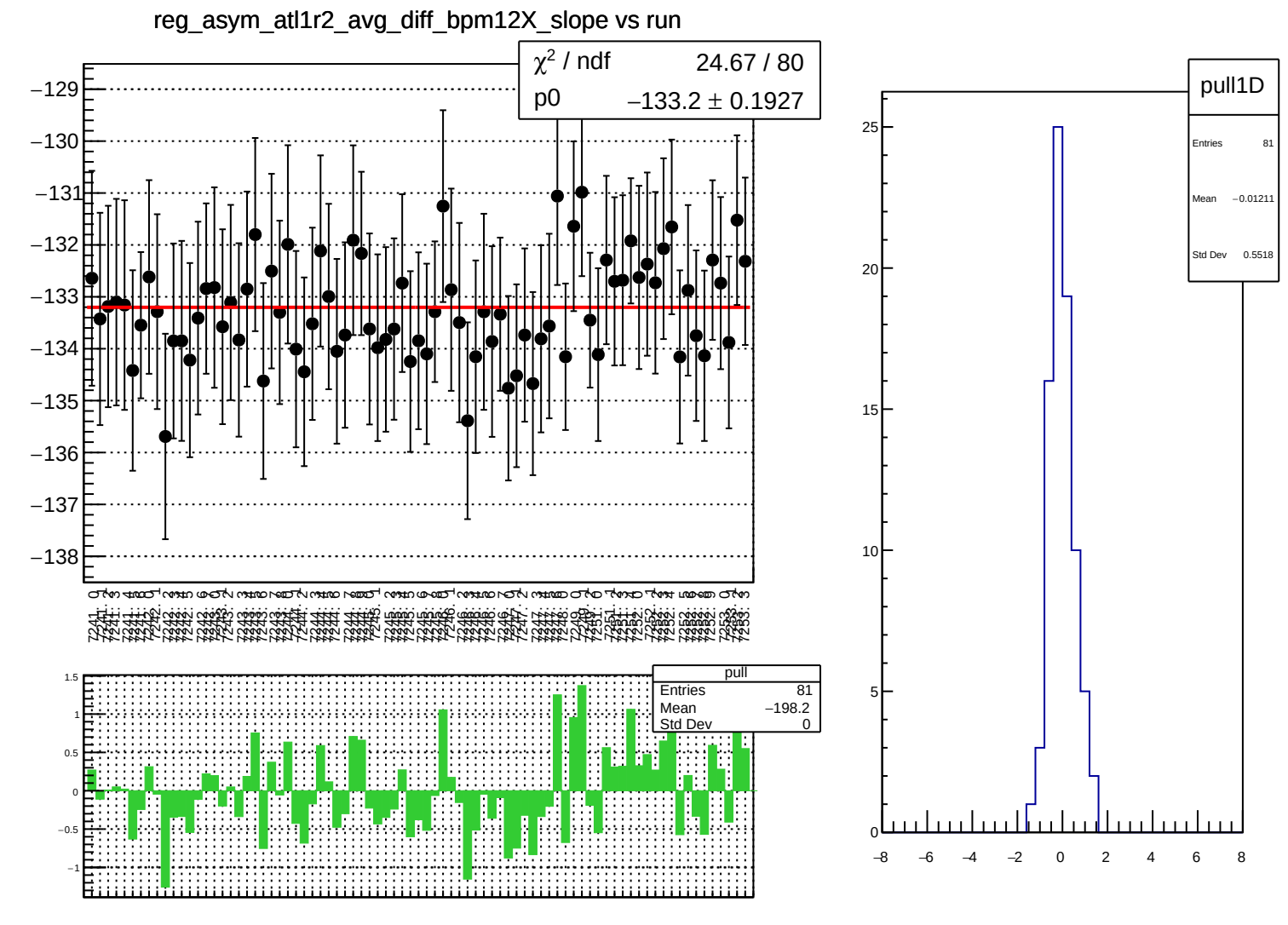

pull1D
Entries 81
Mean −0.003733
Std Dev 0.3546

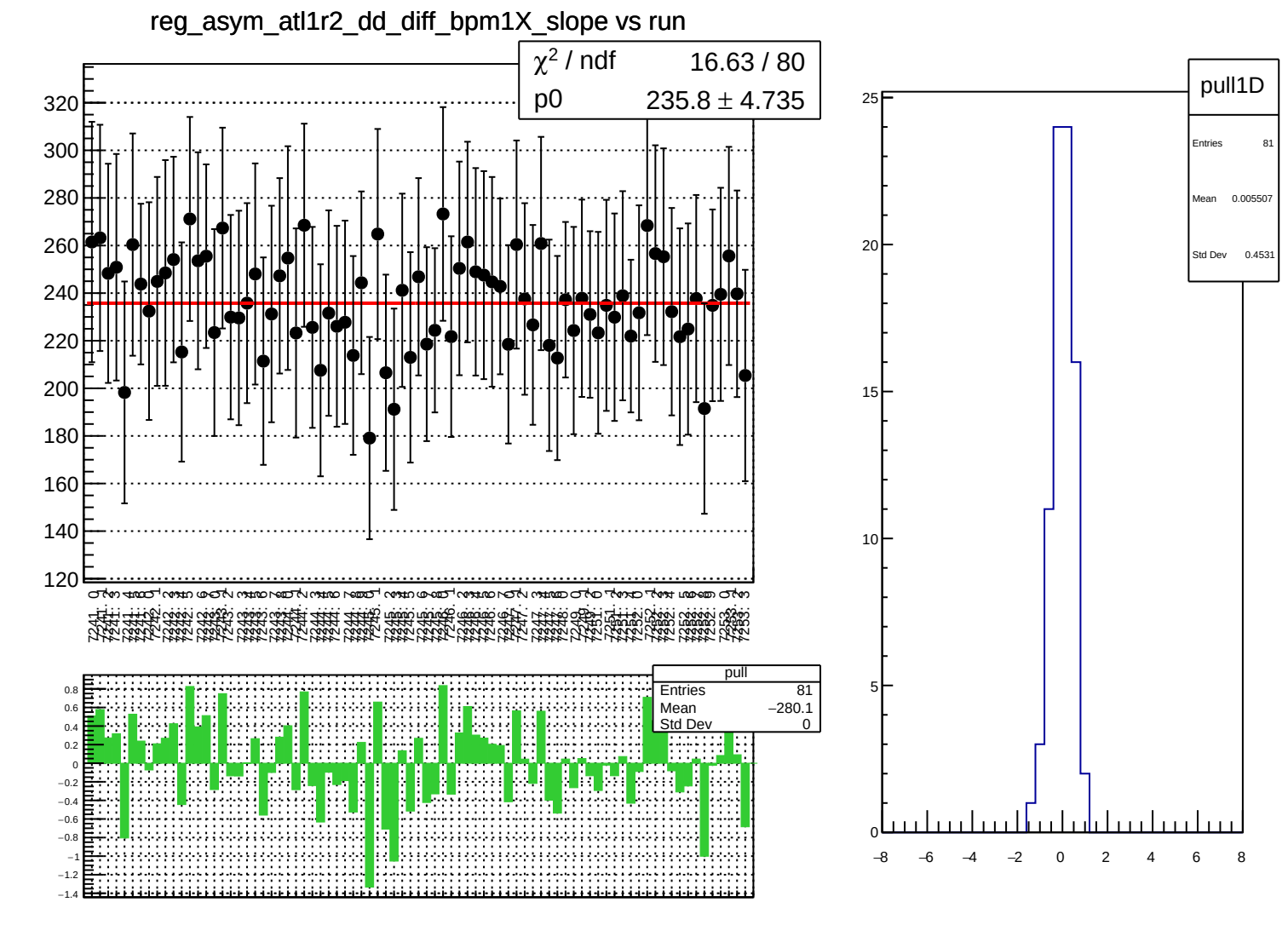

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 11.4 / 80
p0 326.2 ± 5.475
pull
Entries 81
Mean −2226
Std Dev 0

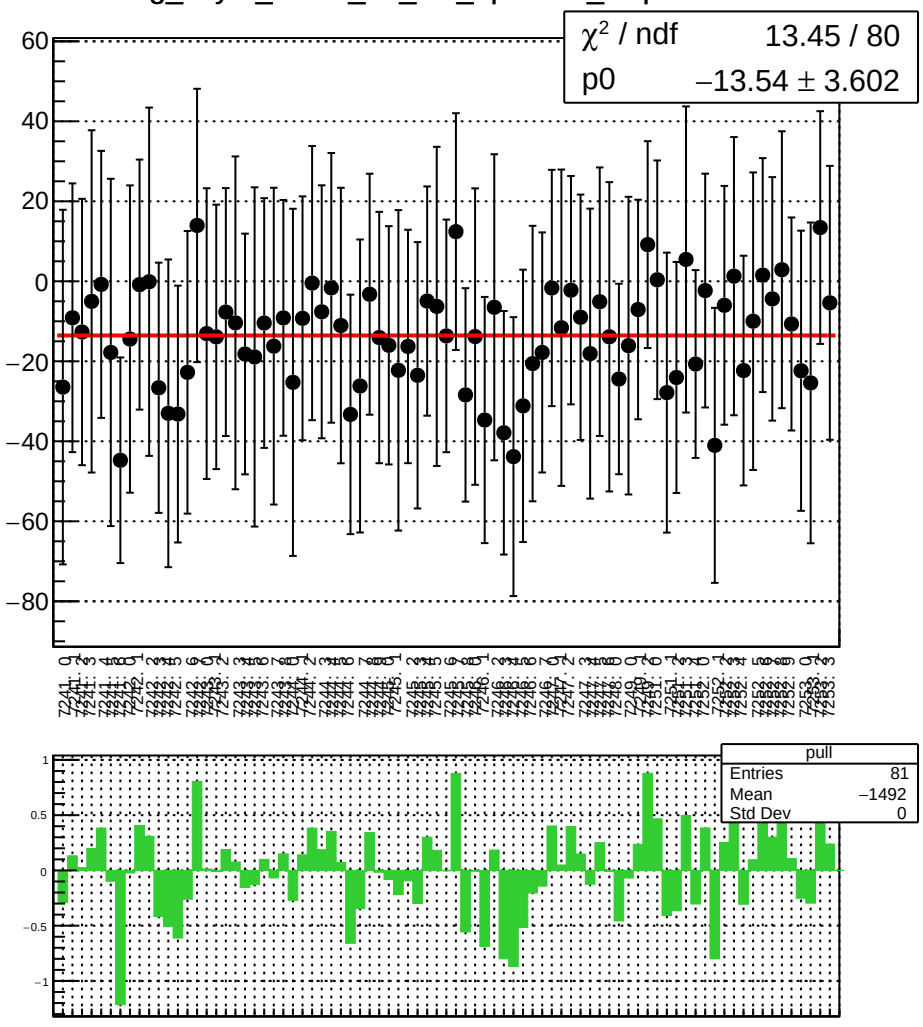

pull1D
Entries 81
Mean 0.001103
Std Dev 0.3751

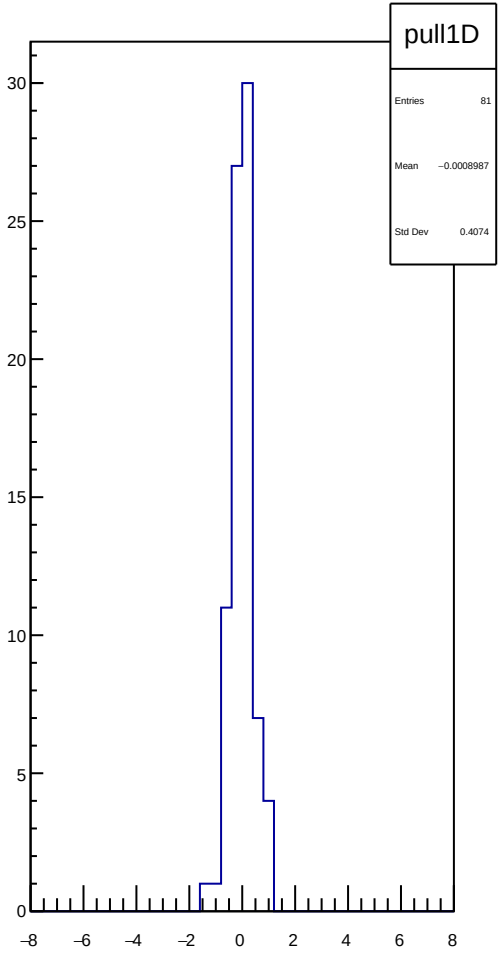

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.1 / 80
p0 33.37 ± 4.313
pull
Entries 81
Mean 139.8
Std Dev 0

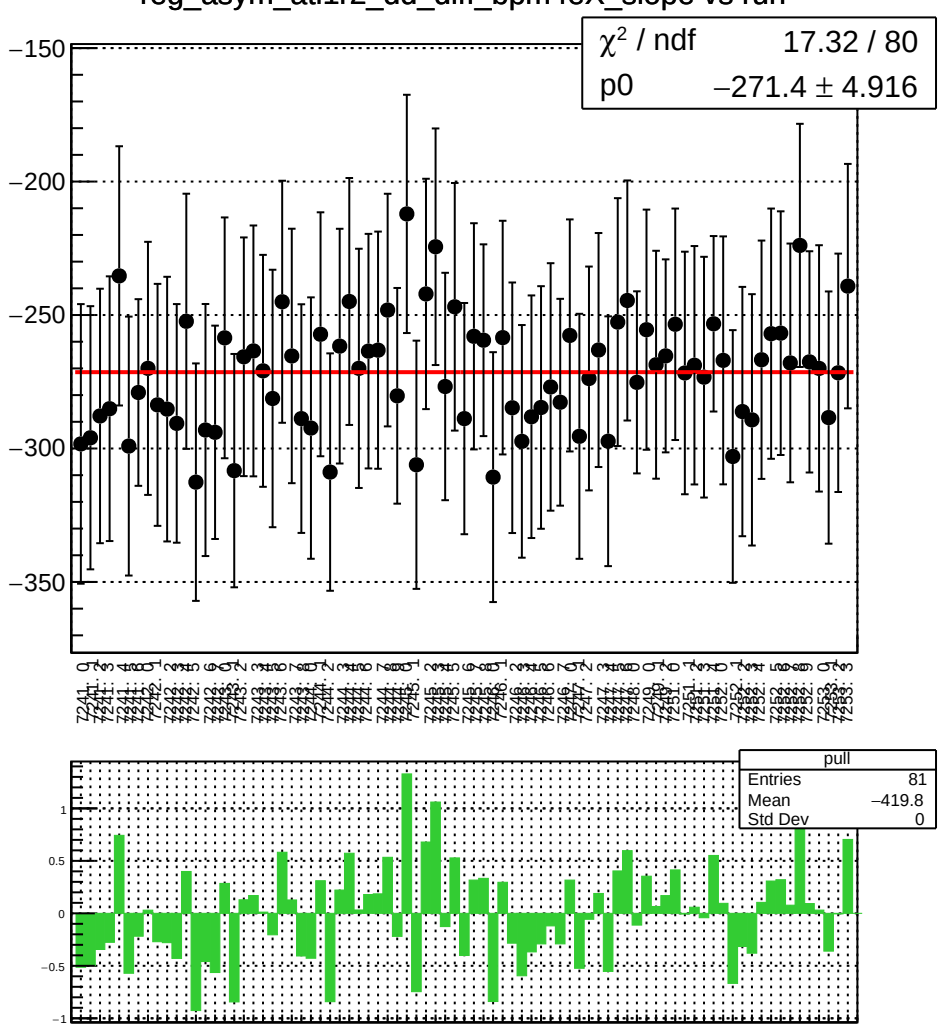

pull1D
Entries 81
Mean 0.007987
Std Dev 0.3531

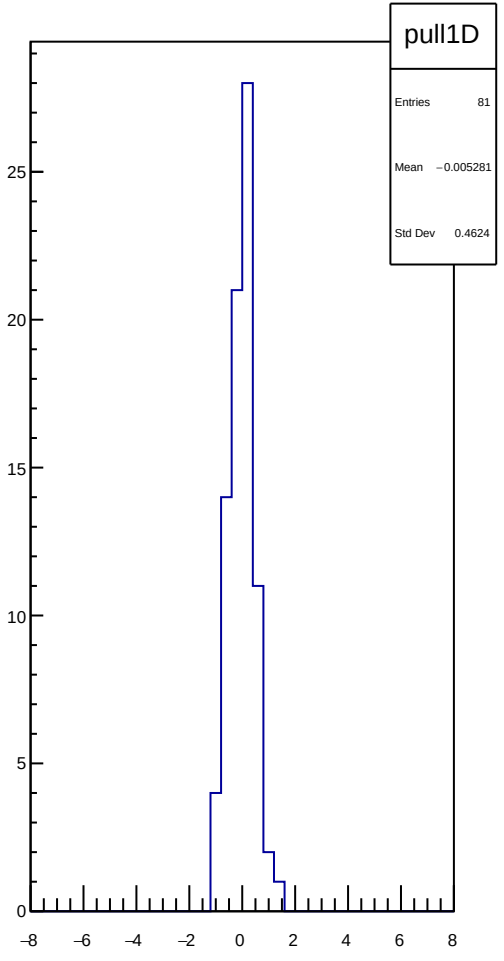

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 24.67 / 80
p0 −133.2 ± 0.1927
pull
Entries 81
Mean −198.2
Std Dev 0
pull1D
Entries 81
Mean −0.01211
Std Dev 0.5518

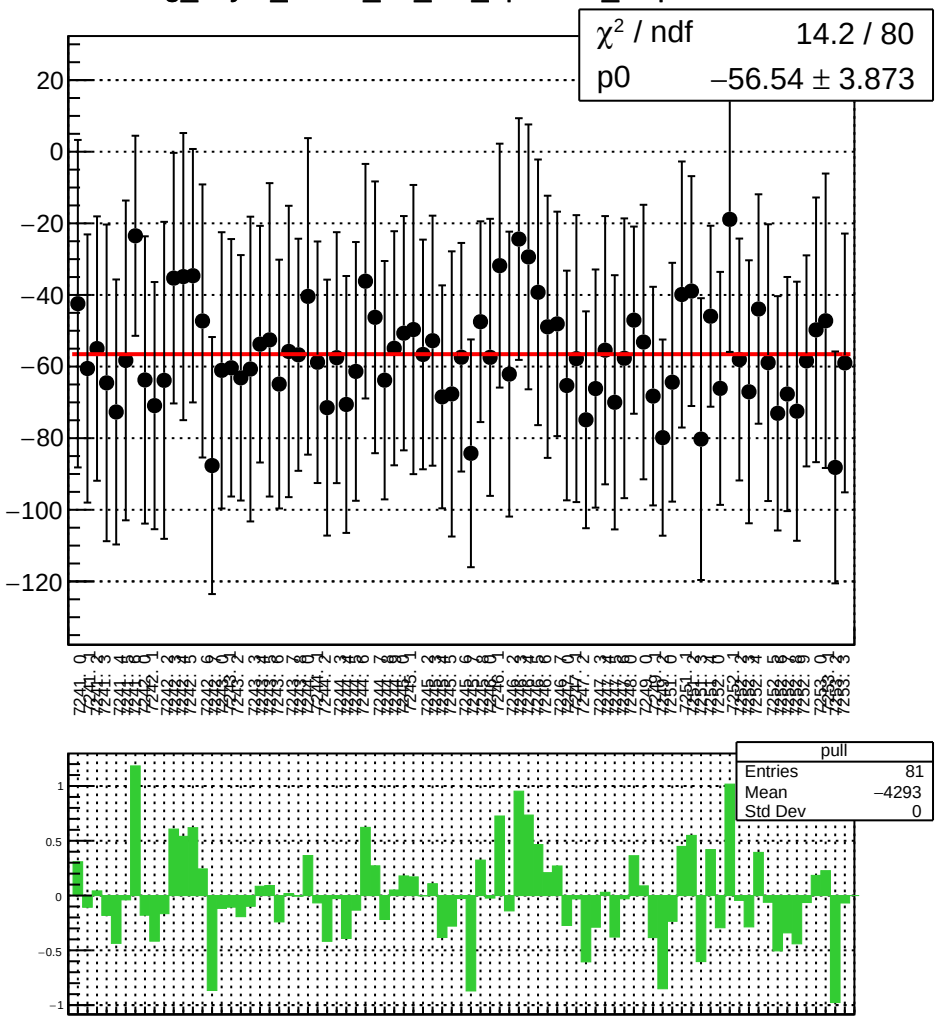

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 16.63 / 80
p0 235.8 ± 4.735
pull
Entries 81
Mean −280.1
Std Dev 0
pull1D
Entries 81
Mean 0.005507
Std Dev 0.4531

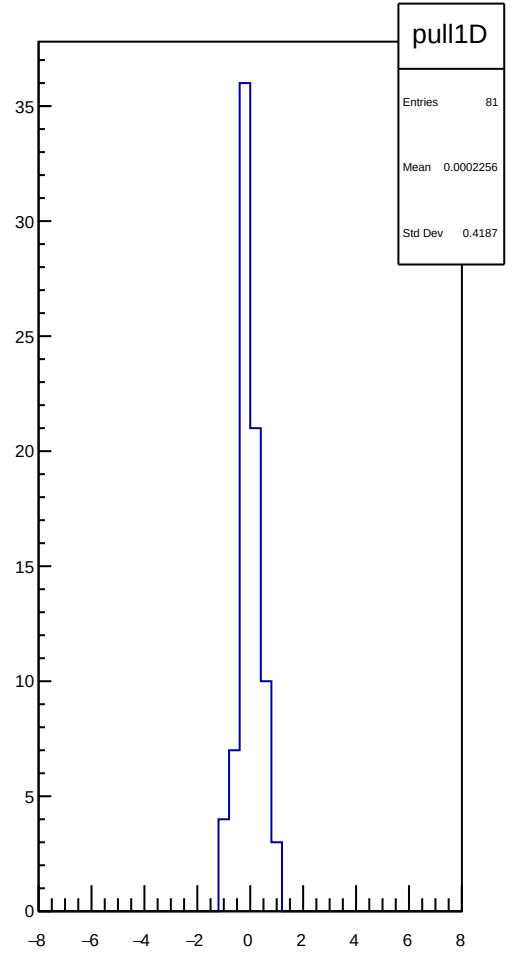

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.45 / 80
p0 −13.54 ± 3.602
pull
Entries 81
Mean −1492
Std Dev 0

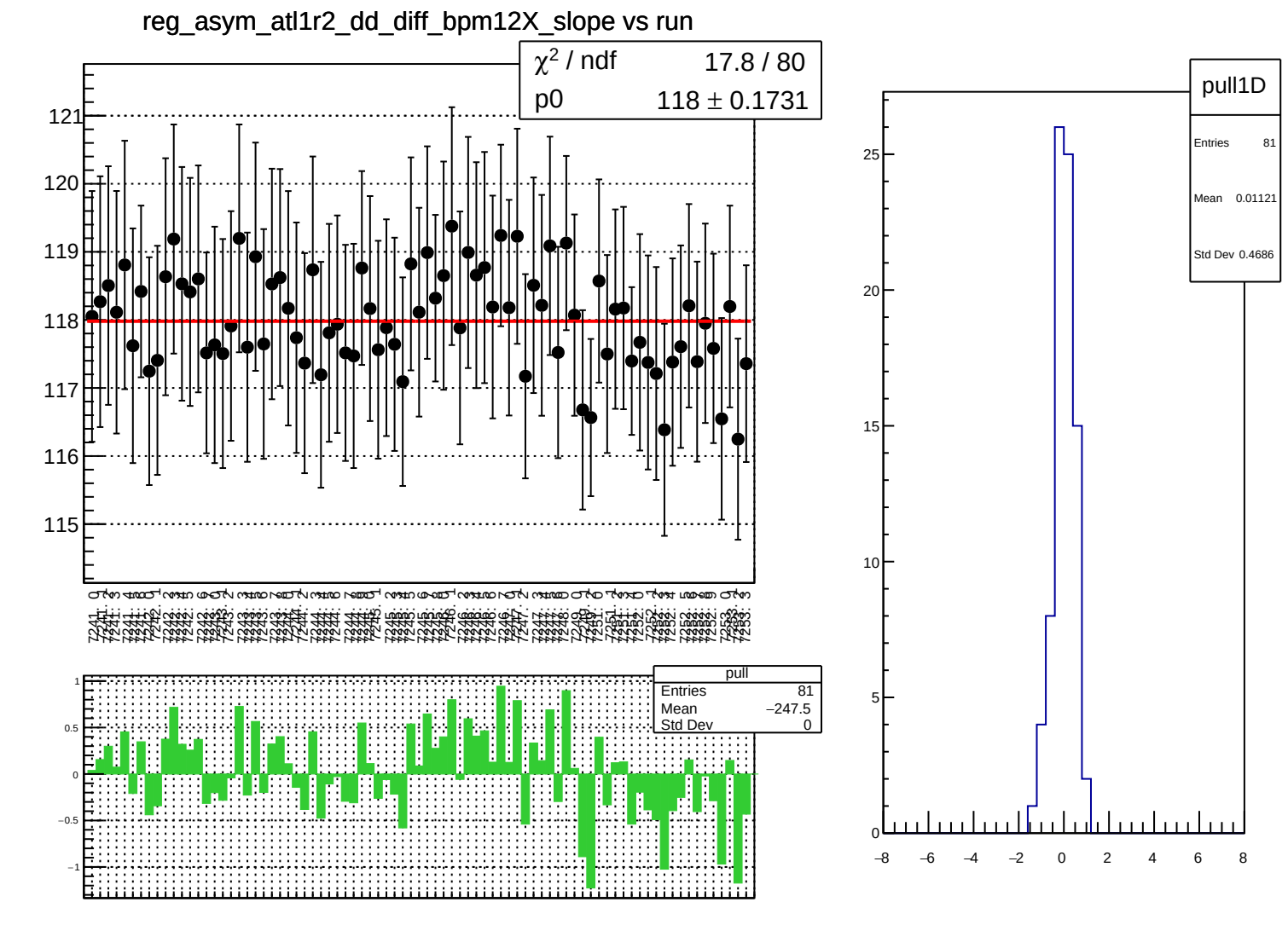

pull1D
Entries 81
Mean −0.0008987
Std Dev 0.4074

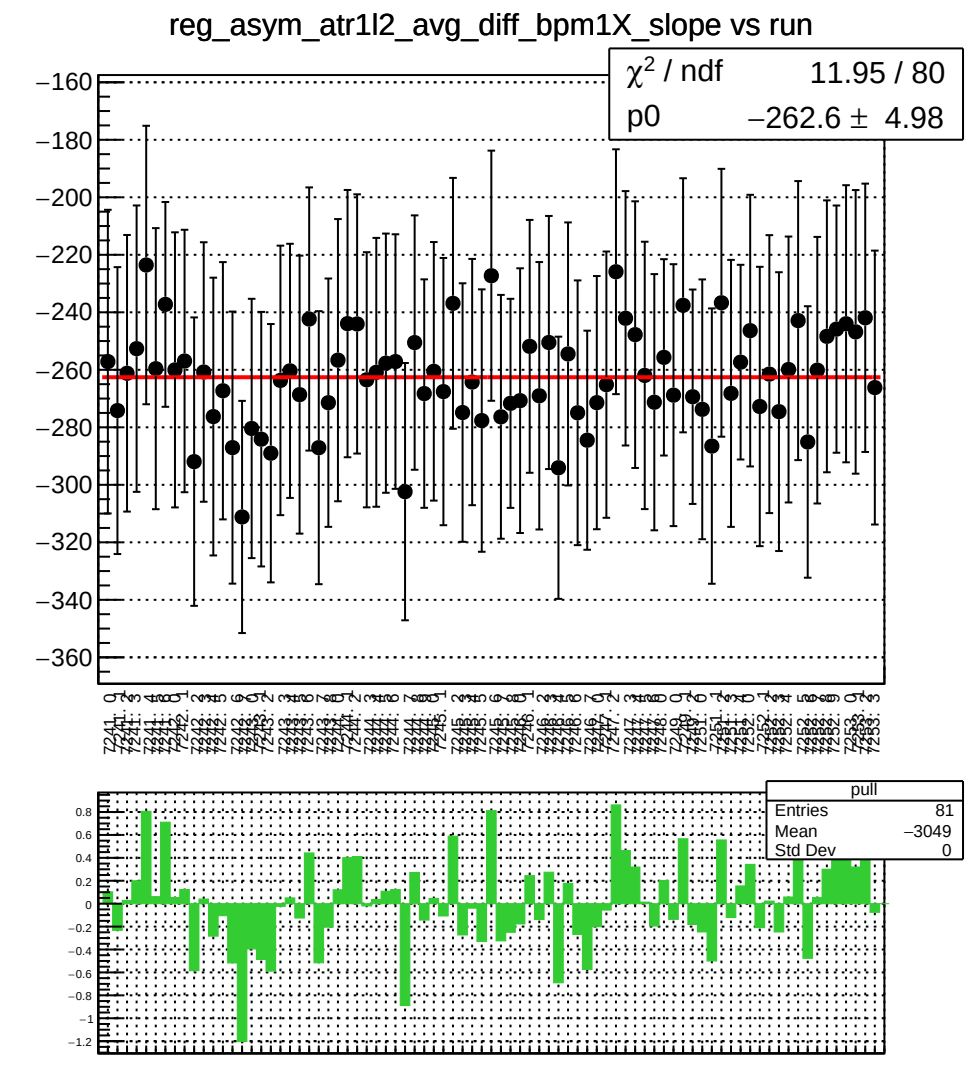

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 17.32 / 80
p0 −271.4 ± 4.916
pull
Entries 81
Mean −419.8
Std Dev 0

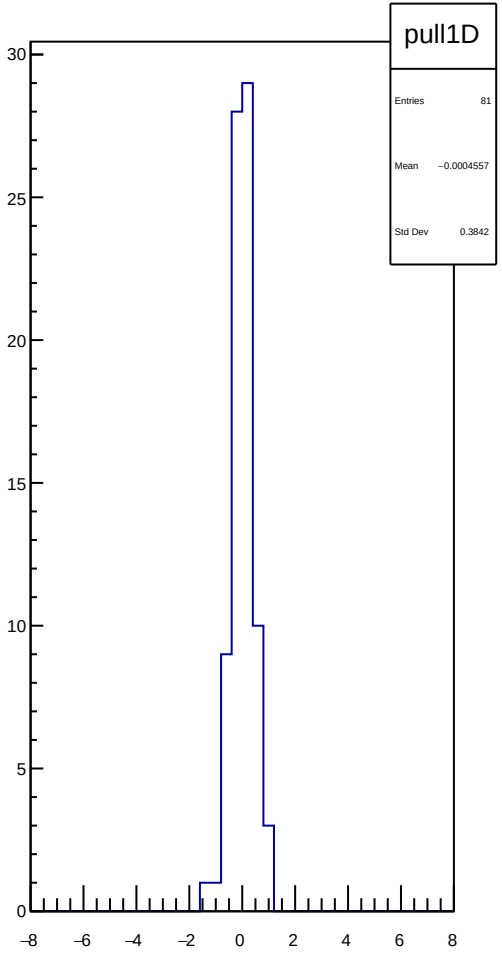

pull1D
Entries 81
Mean −0.005281
Std Dev 0.4624

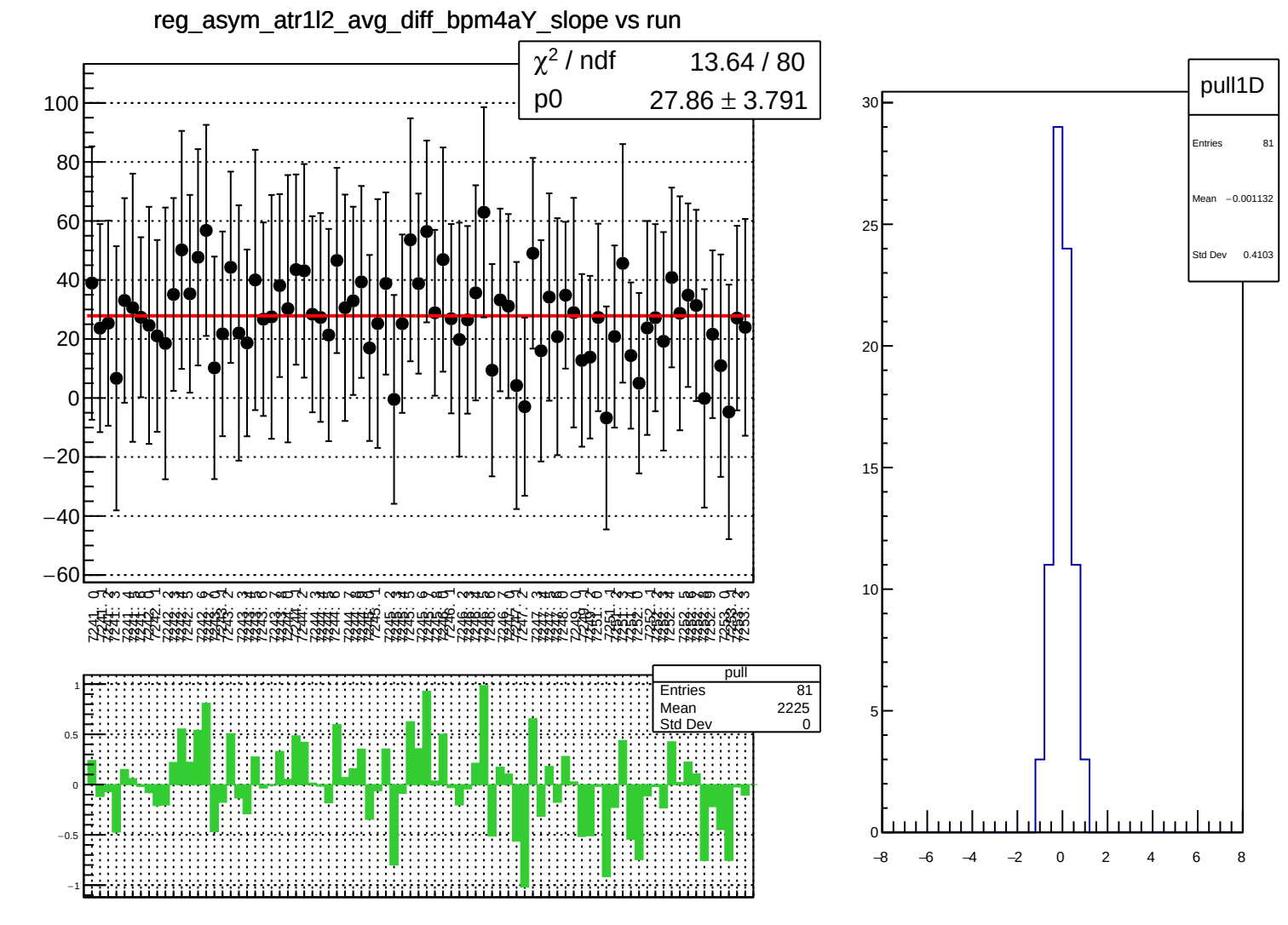

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.2 / 80
p0 −56.54 ± 3.873
pull
Entries 81
Mean −4293
Std Dev 0

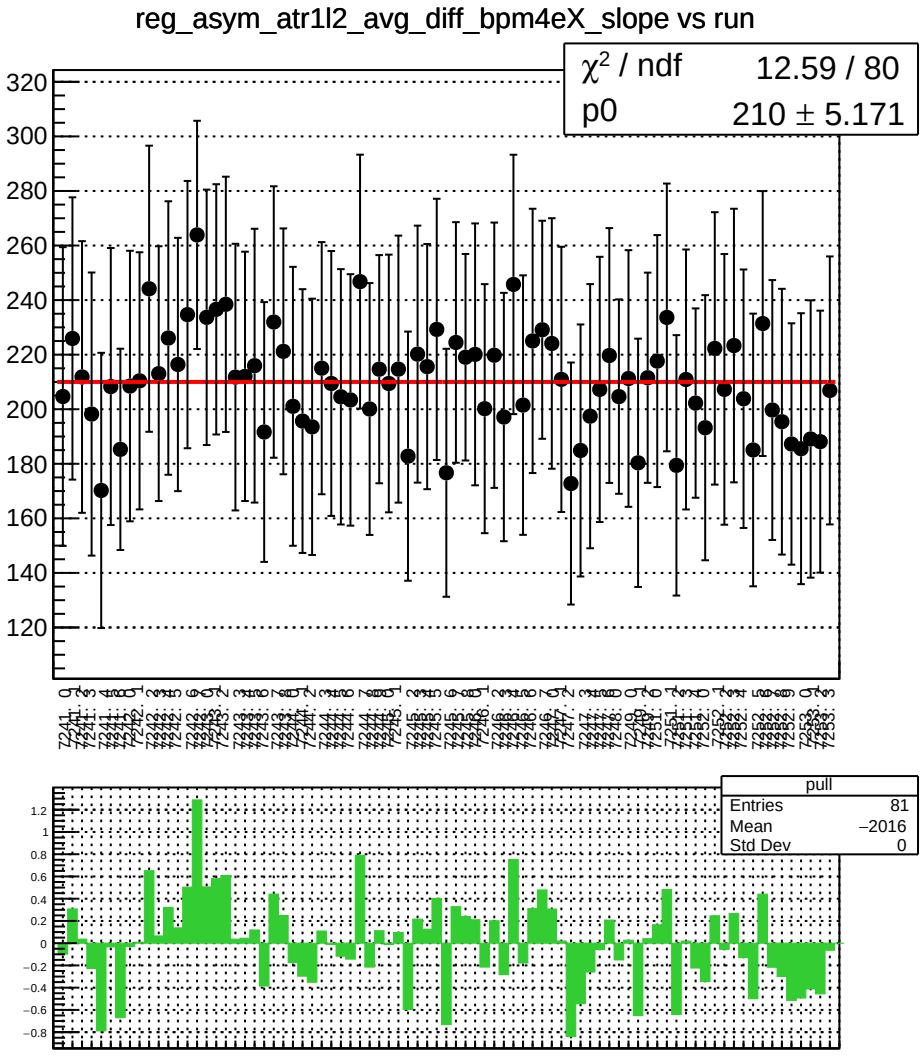

pull1D
Entries 81
Mean 0.0002256
Std Dev 0.4187

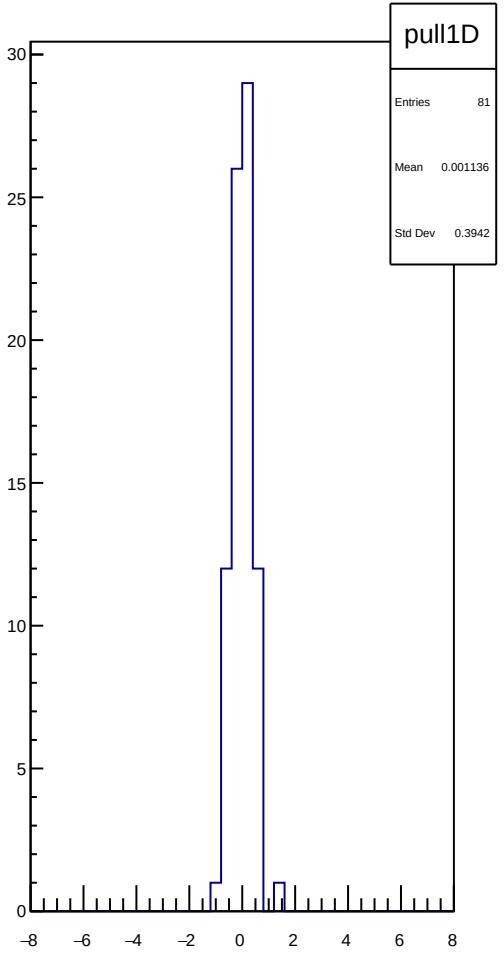

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 17.8 / 80
p0 118 ± 0.1731
121
120
119
118
117
116
115
pull
Entries 81
Mean −247.5
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 81
Mean 0.01121
Std Dev 0.4686
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

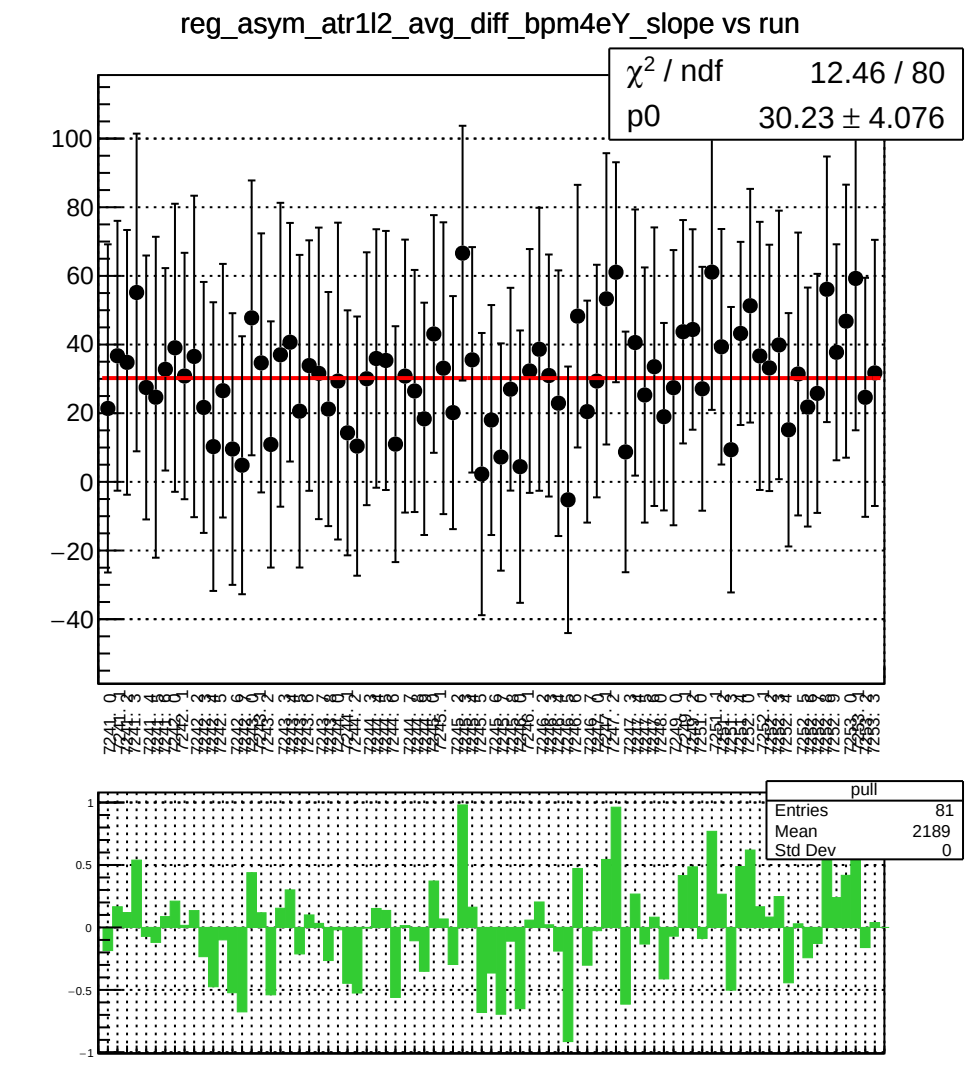

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 11.95 / 80
p0 −262.6 ± 4.98
pull
Entries 81
Mean −3049
Std Dev 0

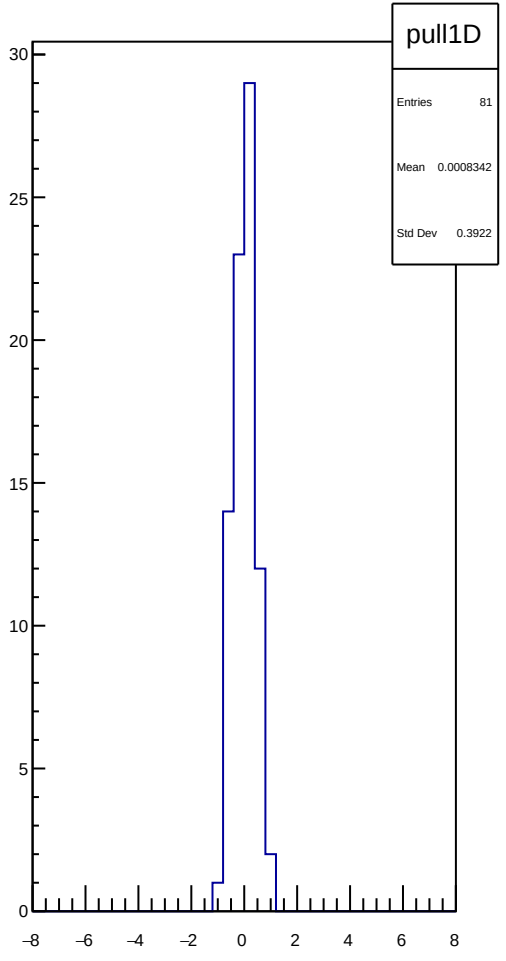

pull1D
Entries 81
Mean −0.0004557
Std Dev 0.3842

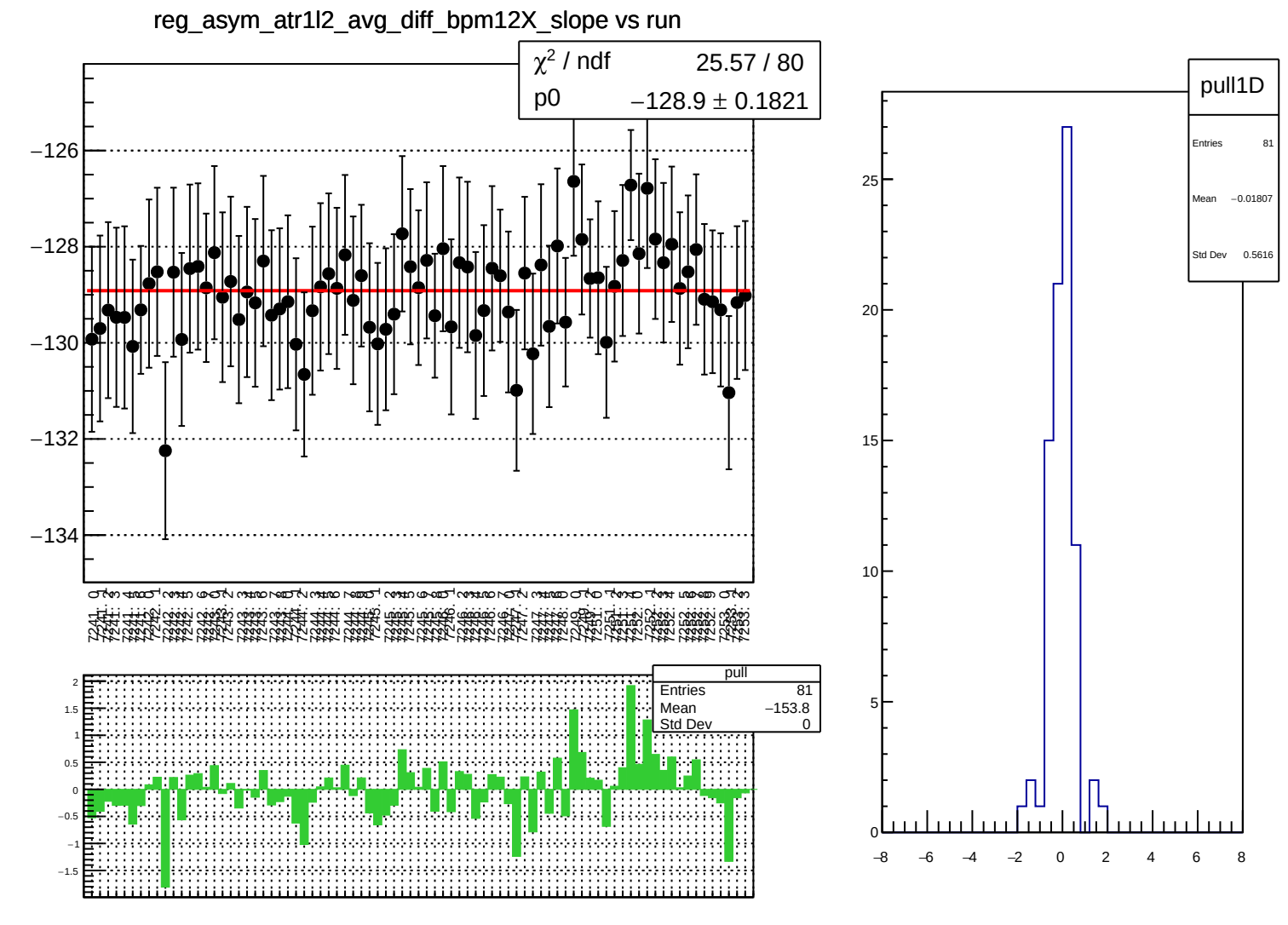

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.64 / 80
p0 27.86 ± 3.791
pull
Entries 81
Mean 2225
Std Dev 0
pull1D
Entries 81
Mean −0.001132
Std Dev 0.4103

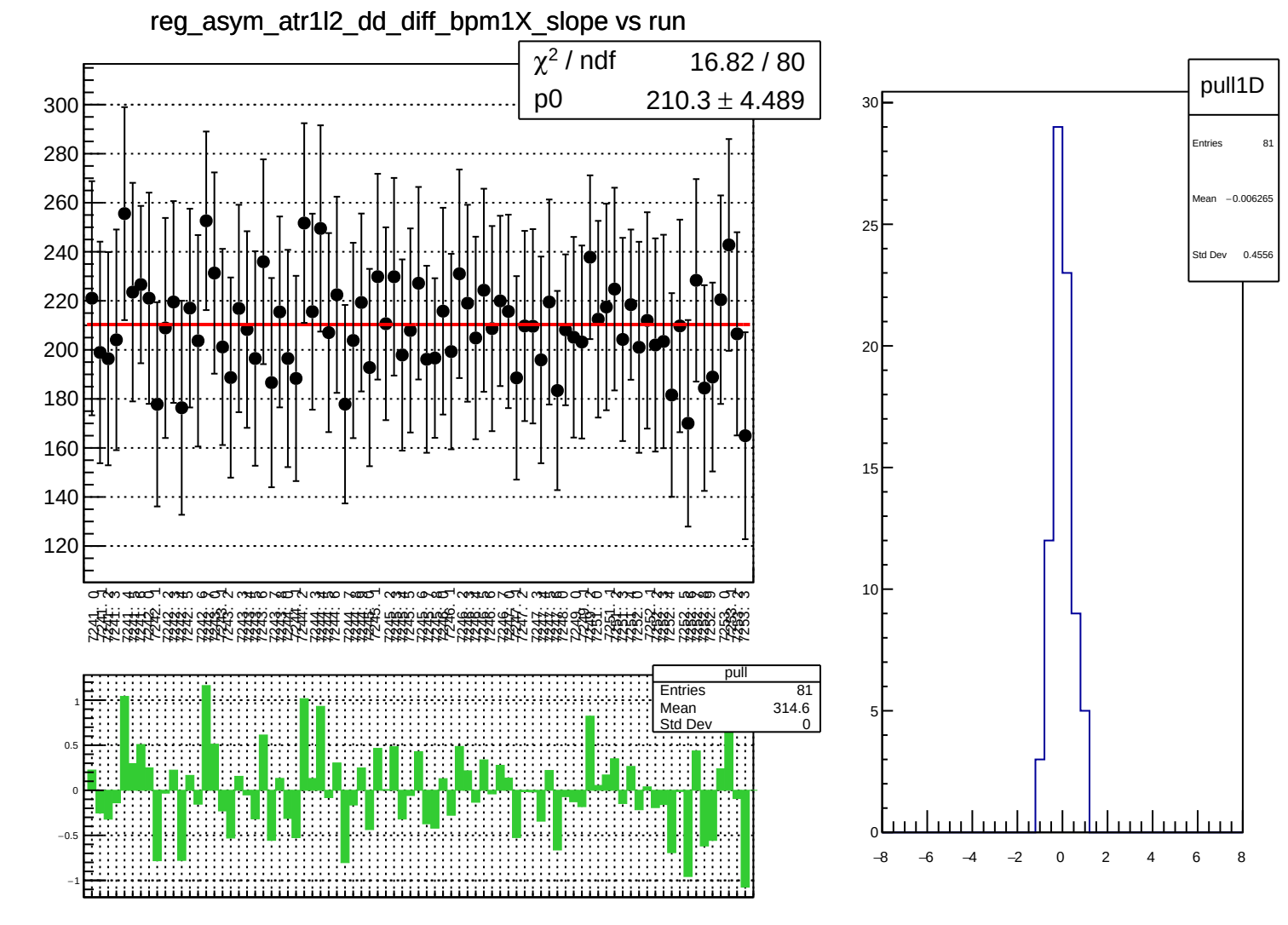

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.59 / 80
p0 210 ± 5.171
pull
Entries 81
Mean −2016
Std Dev 0

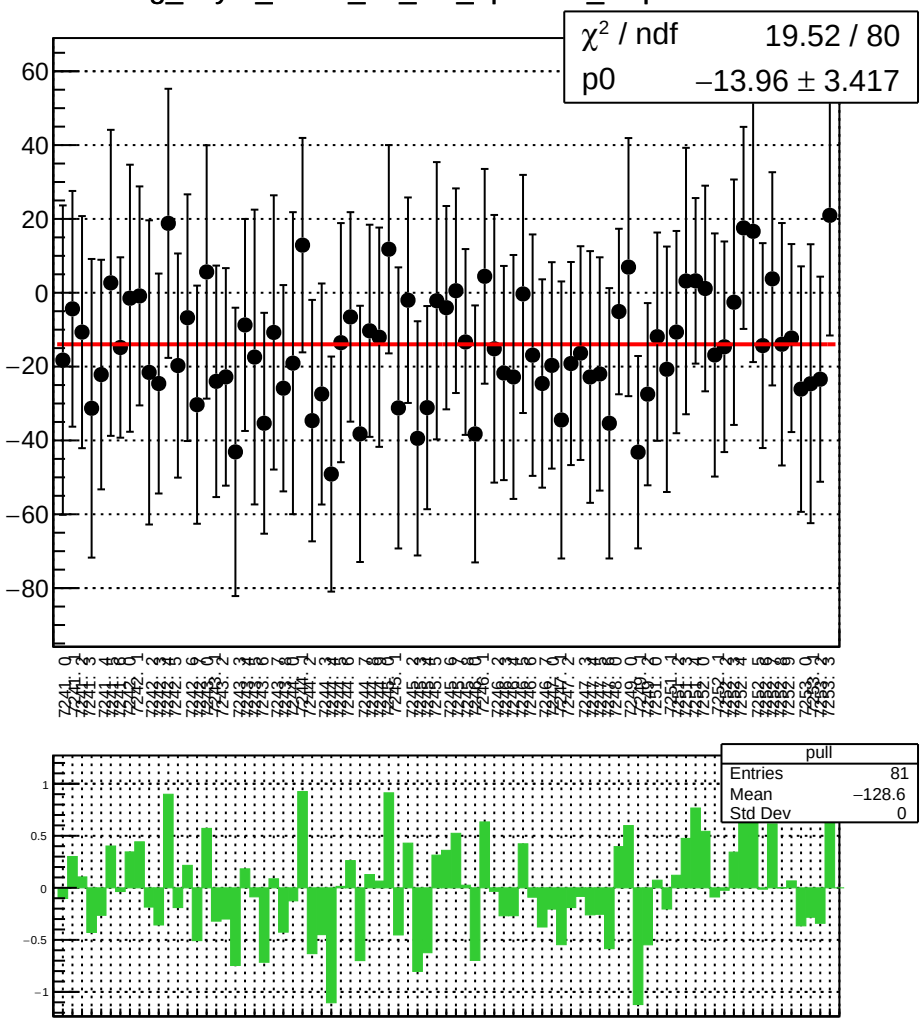

pull1D
Entries 81
Mean 0.001136
Std Dev 0.3942

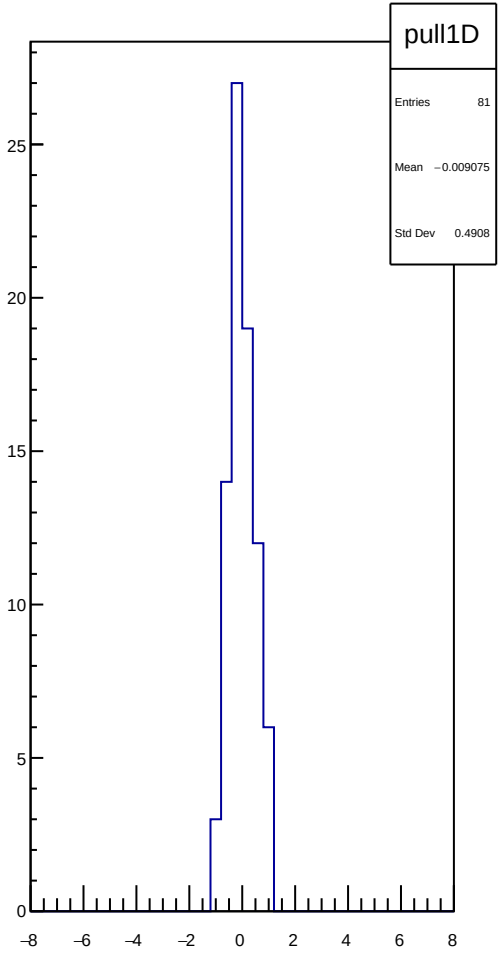

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.46 / 80
p0 30.23 ± 4.076
pull
Entries 81
Mean 2189
Std Dev 0

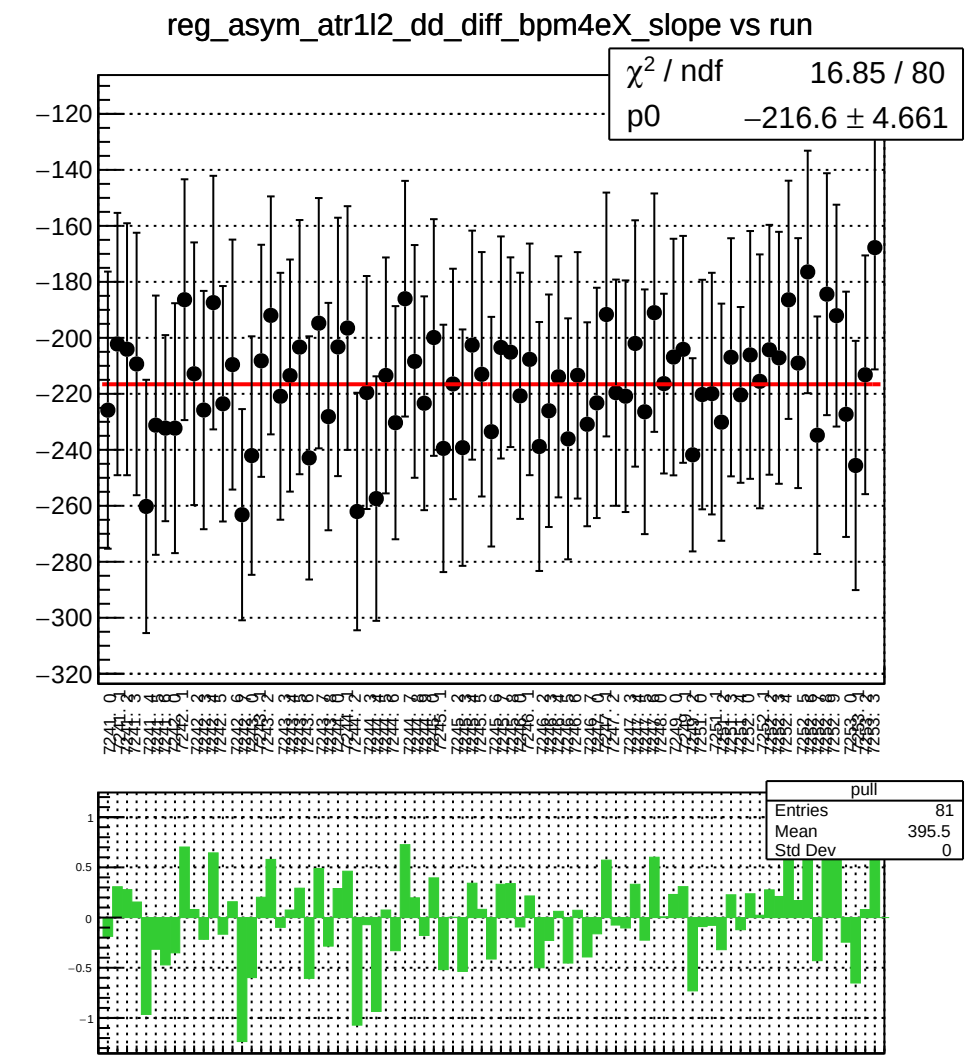

pull1D
Entries 81
Mean 0.0008342
Std Dev 0.3922

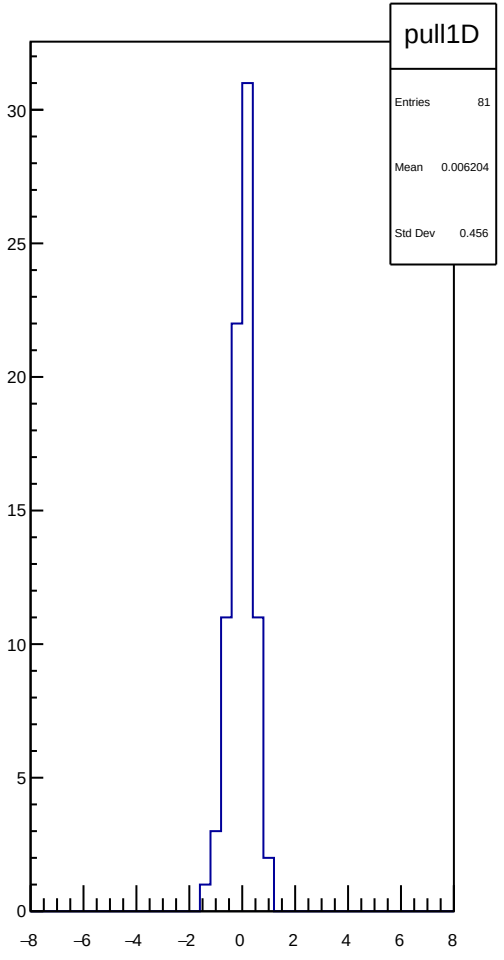

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 25.57 / 80
p0 −128.9 ± 0.1821
−126
−128
−130
−132
−134
pull
Entries 81
Mean −153.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 81
Mean −0.01807
Std Dev 0.5616
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

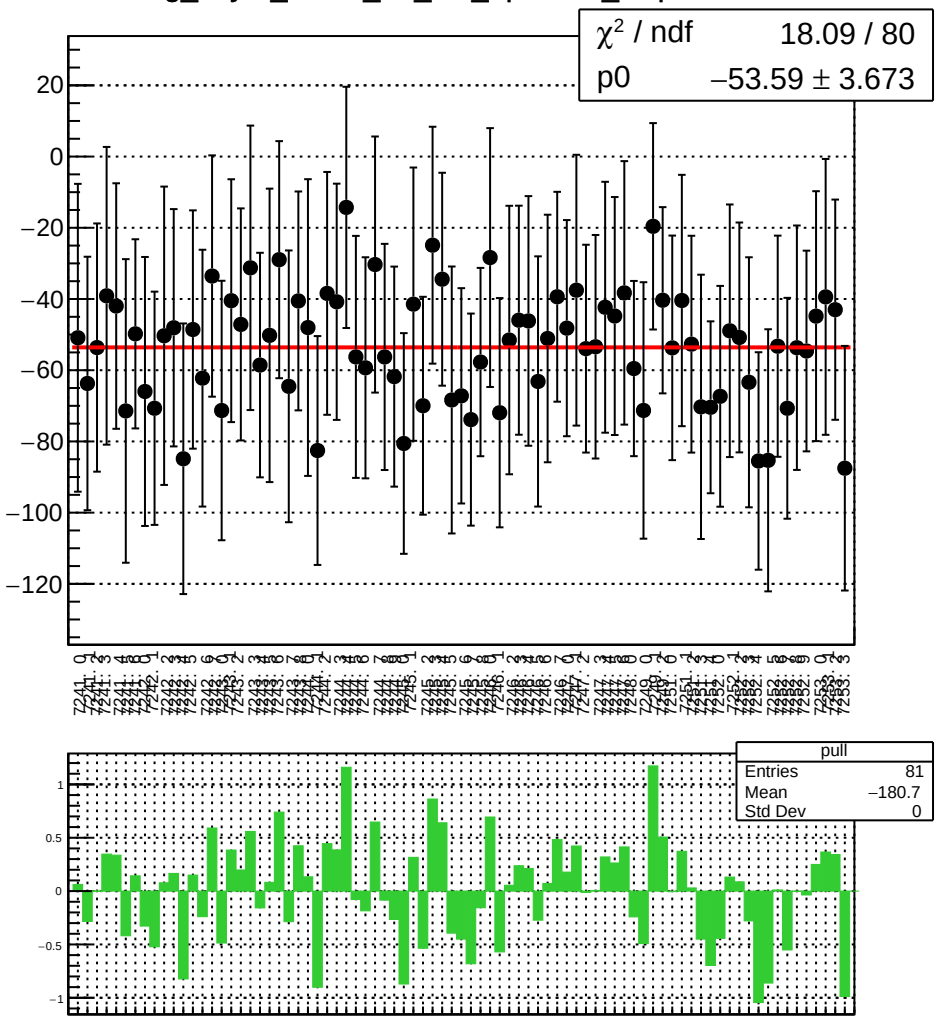

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 16.82 / 80
p0 210.3 ± 4.489
pull
Entries 81
Mean 314.6
Std Dev 0
pull1D
Entries 81
Mean −0.006265
Std Dev 0.4556

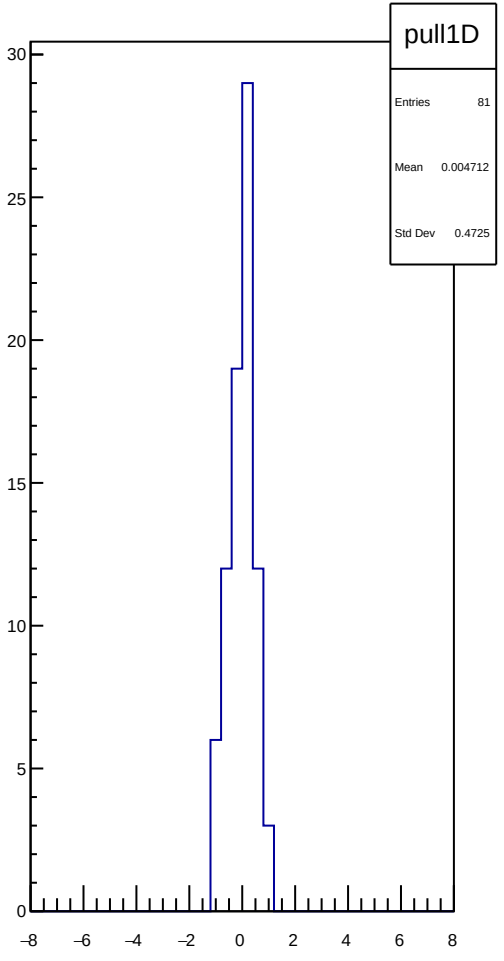

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 19.52 / 80
p0 −13.96 ± 3.417
pull
Entries 81
Mean −128.6
Std Dev 0

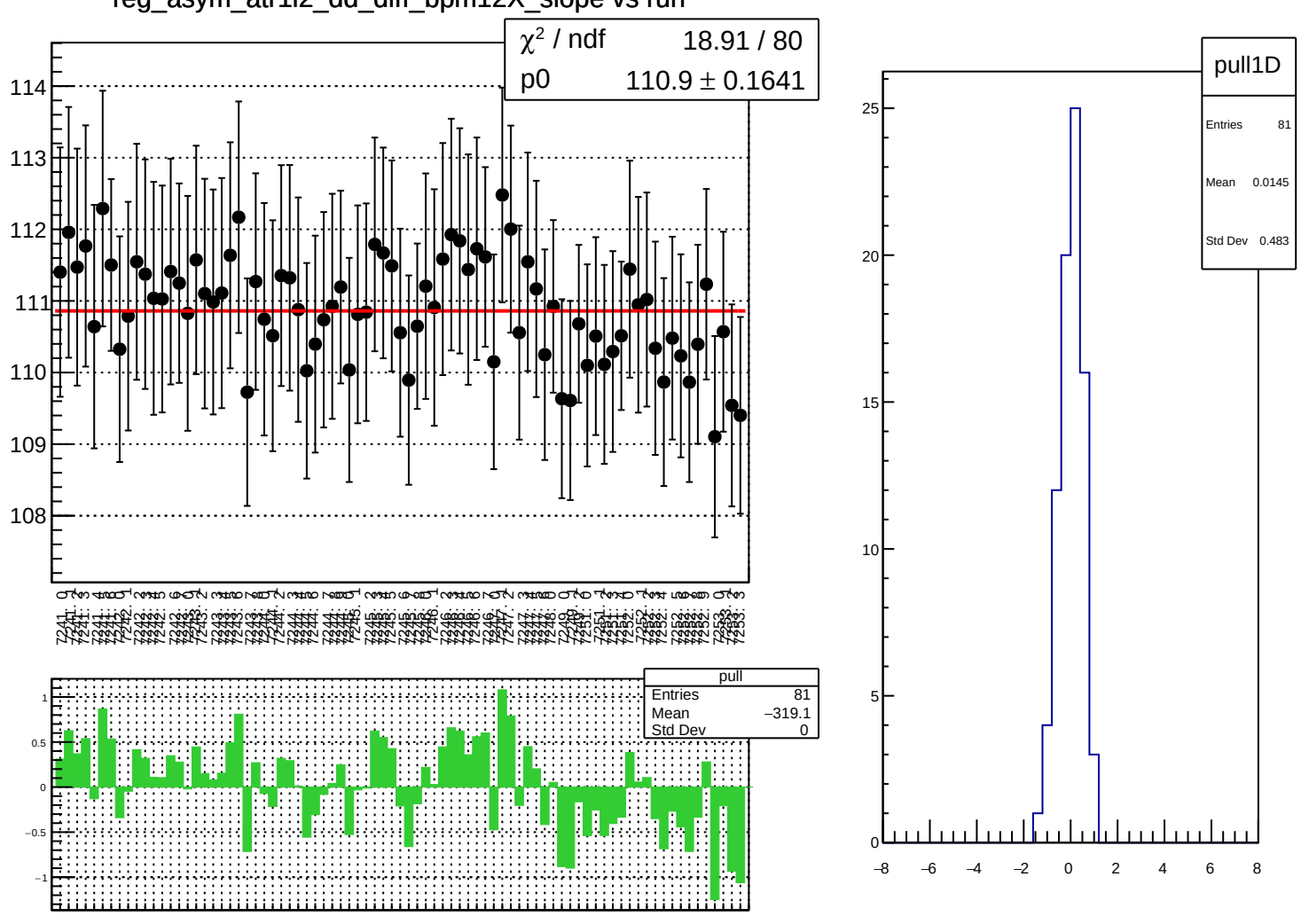

pull1D
Entries 81
Mean −0.009075
Std Dev 0.4908

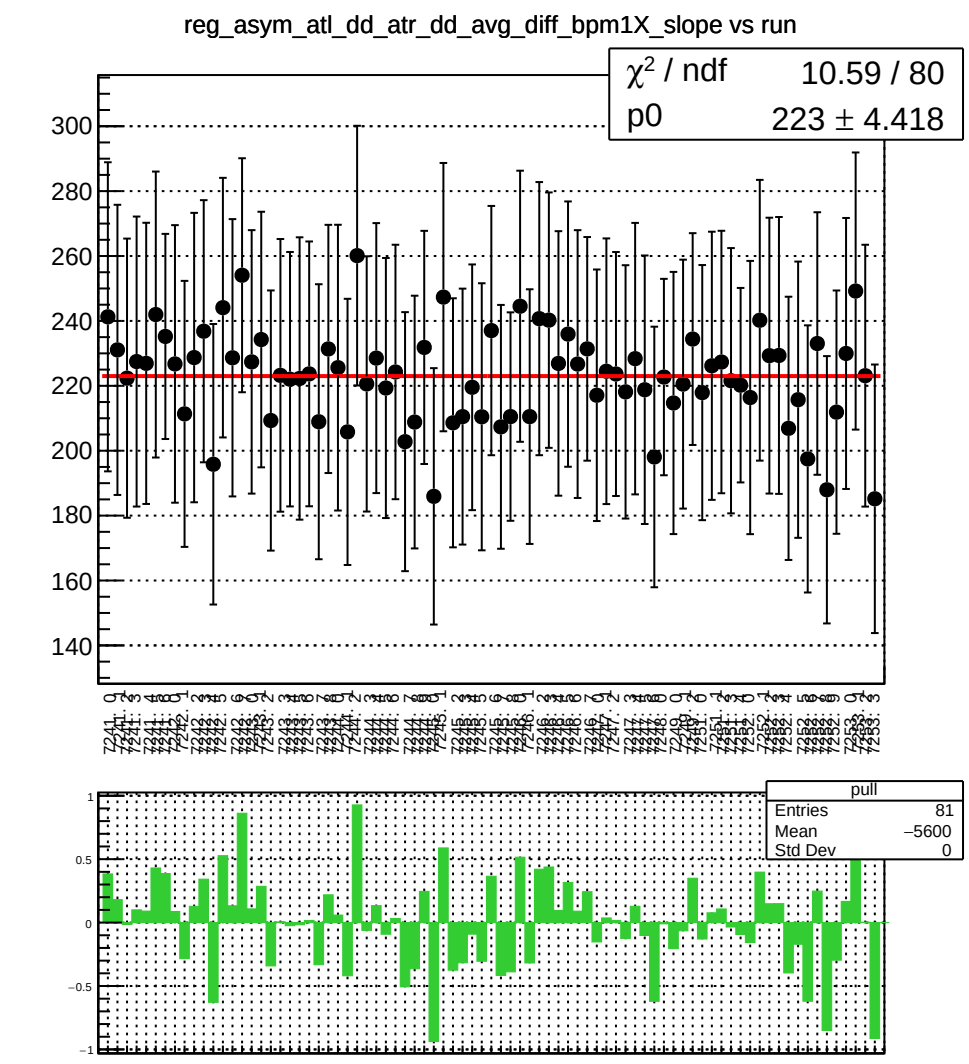

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 16.85 / 80
p0 −216.6 ± 4.661
pull
Entries 81
Mean 395.5
Std Dev 0

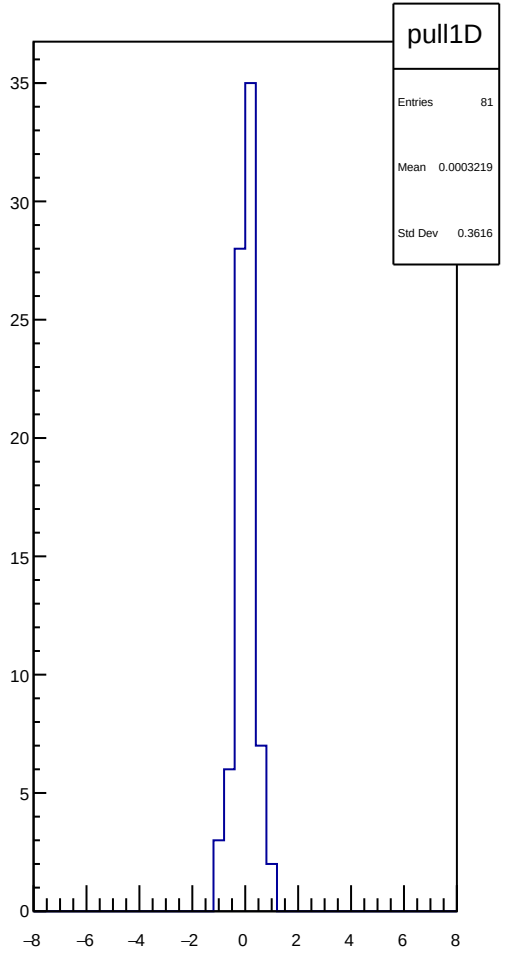

pull1D
Entries 81
Mean 0.006204
Std Dev 0.456

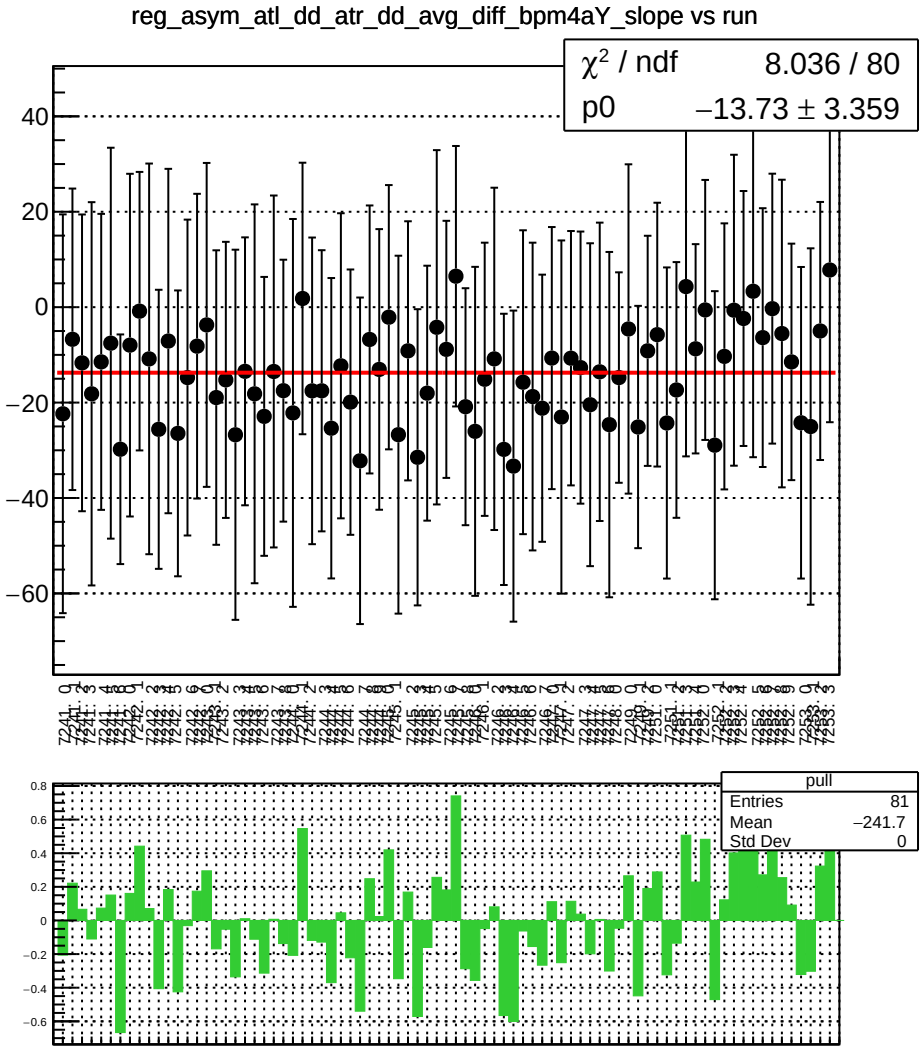

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 18.09 / 80
p0 −53.59 ± 3.673
pull
Entries 81
Mean −180.7
Std Dev 0

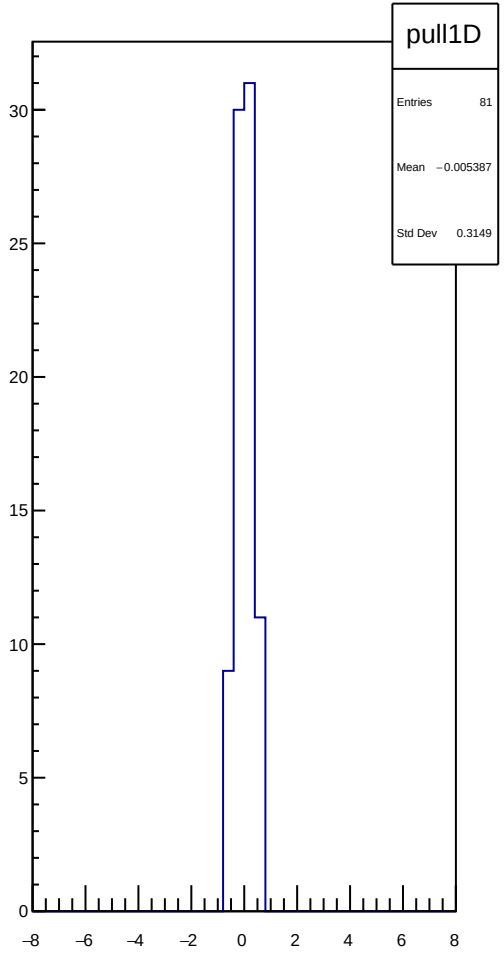

pull1D
Entries 81
Mean 0.004712
Std Dev 0.4725

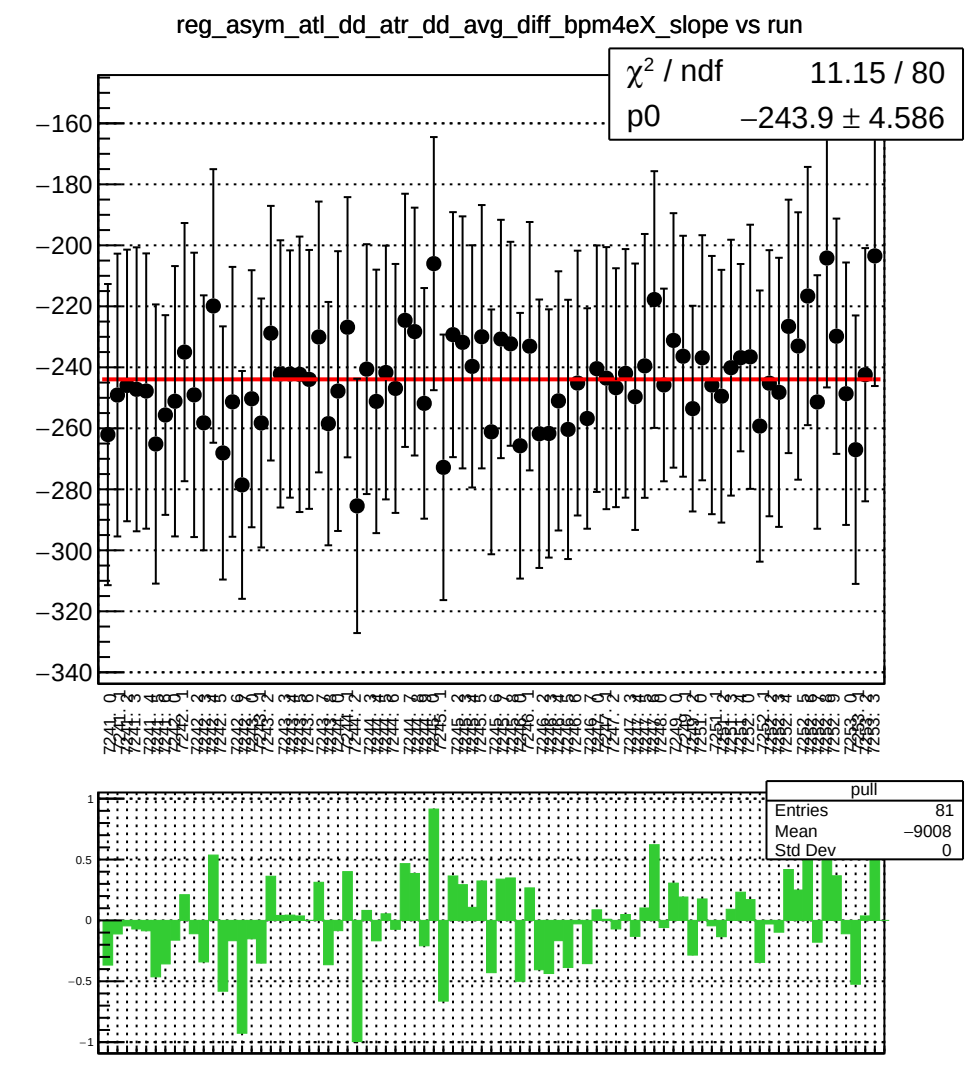

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 18.91 / 80
p0 110.9 ± 0.1641
pull
Entries 81
Mean −319.1
Std Dev 0
pull1D
Entries 81
Mean 0.0145
Std Dev 0.483

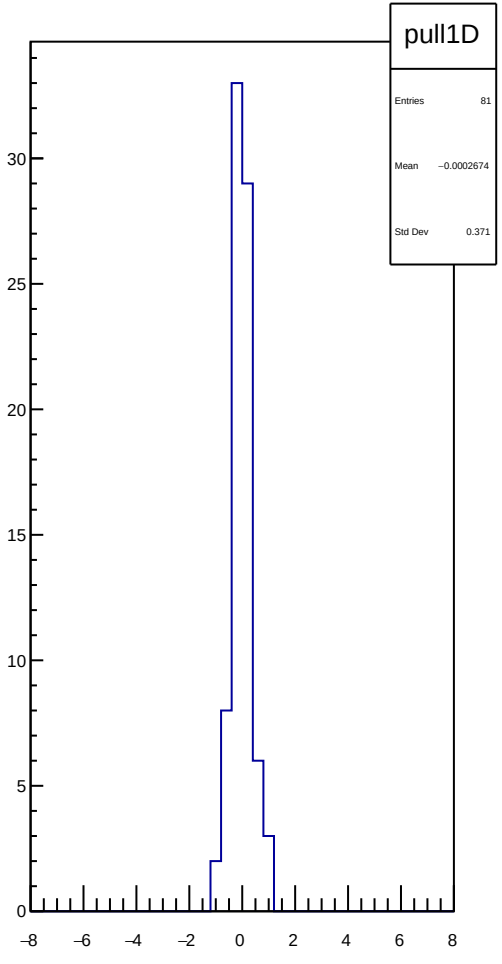

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 10.59 / 80
p0 223 ± 4.418
pull
Entries 81
Mean −5600
Std Dev 0

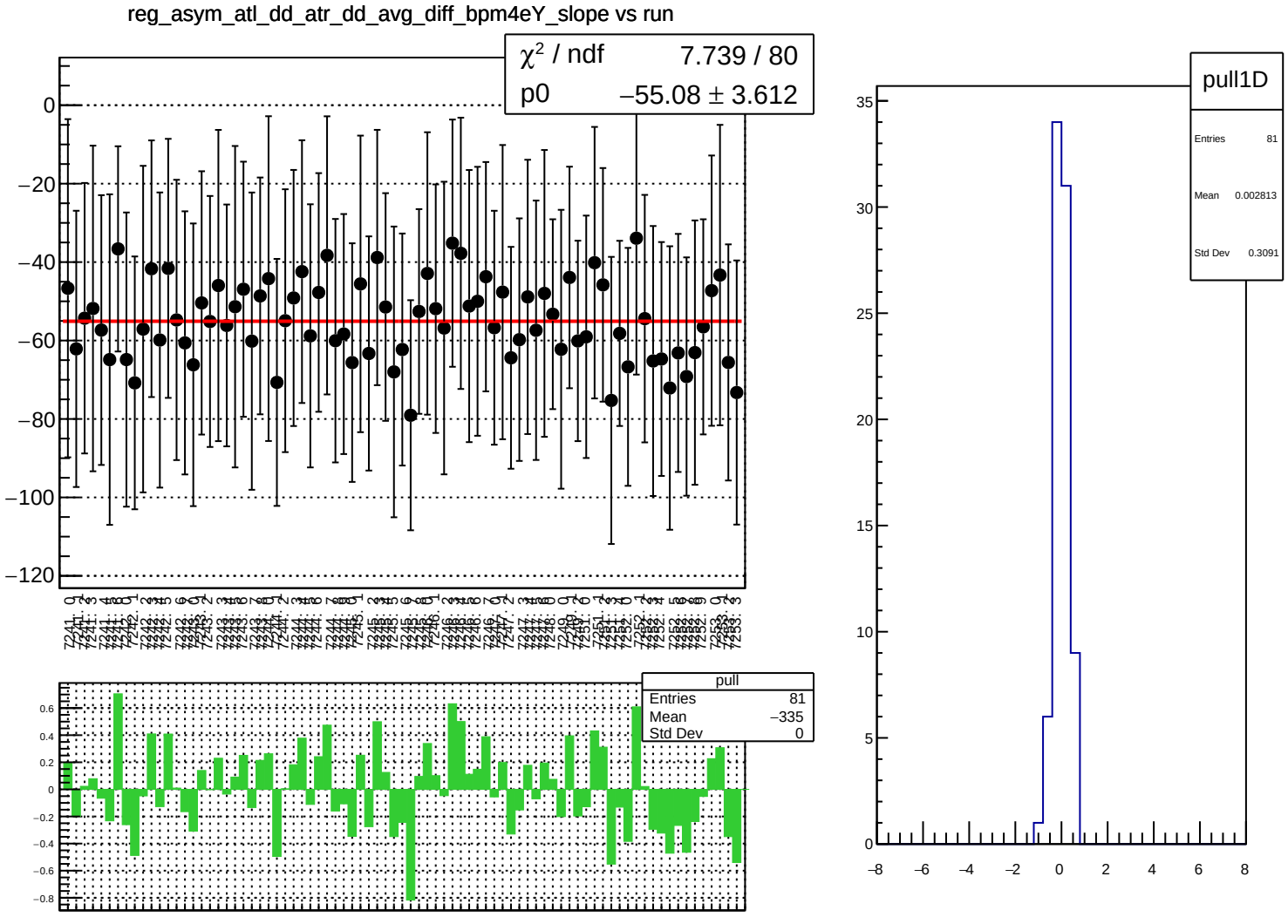

pull1D
Entries 81
Mean 0.0003219
Std Dev 0.3616

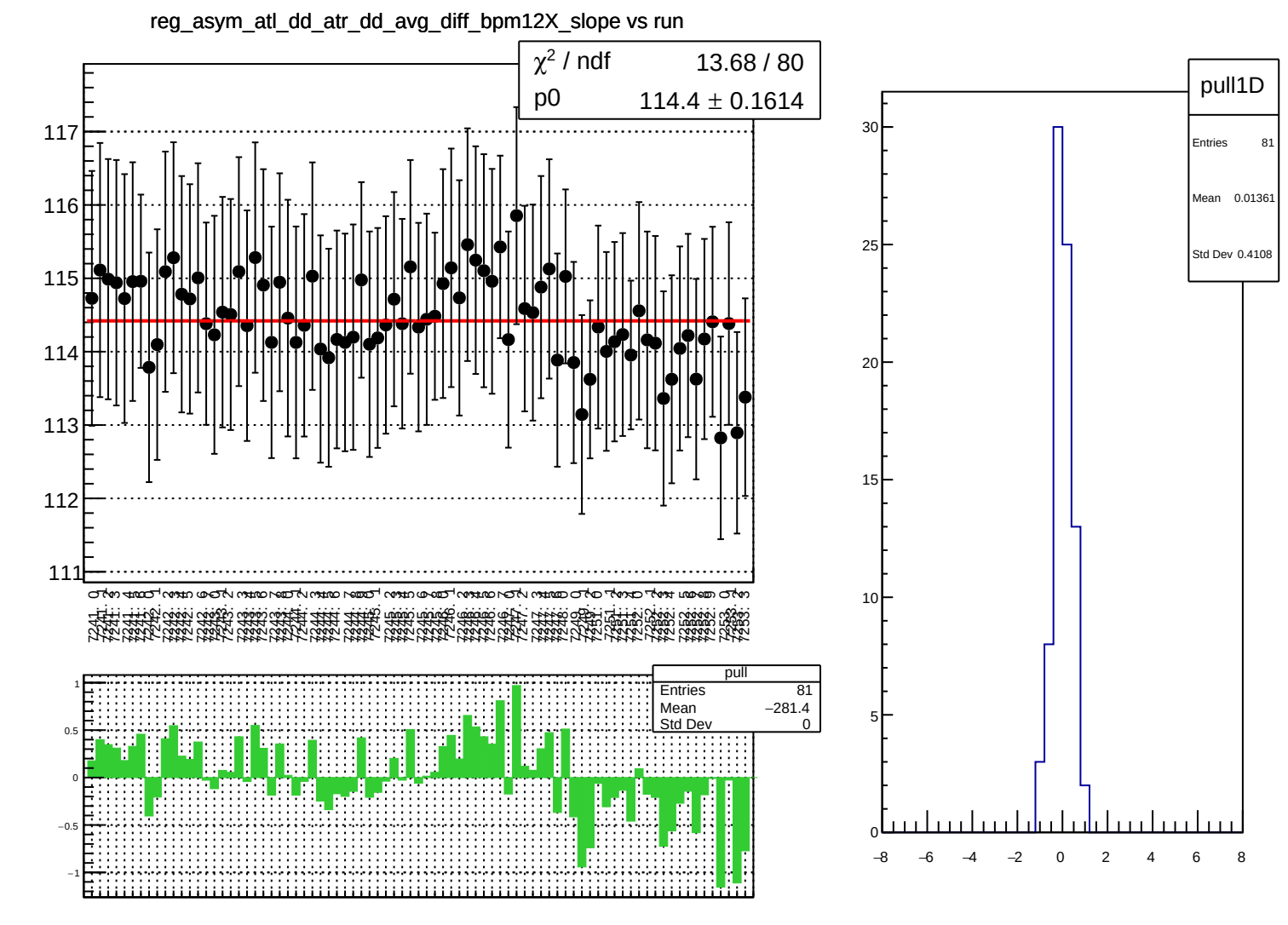

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.036 / 80
p0 −13.73 ± 3.359
pull
Entries 81
Mean −241.7
Std Dev 0

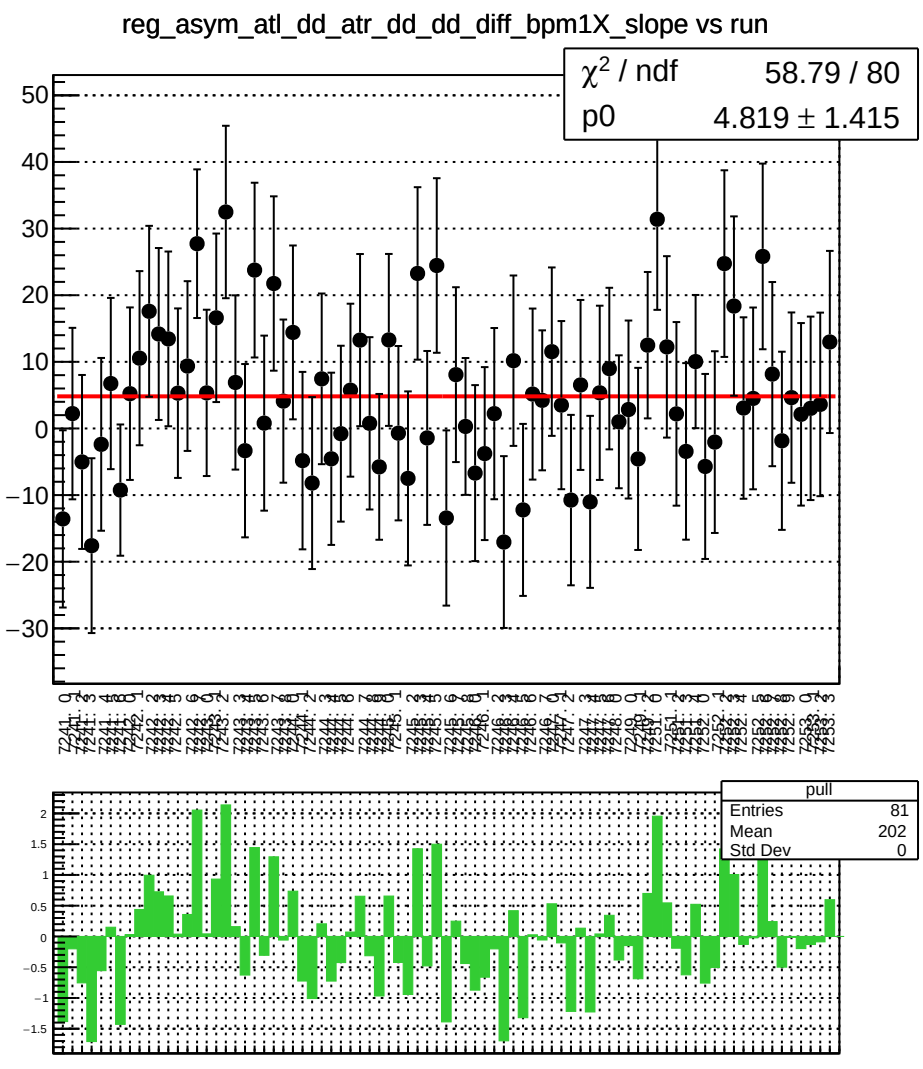

pull1D
Entries 81
Mean −0.005387
Std Dev 0.3149

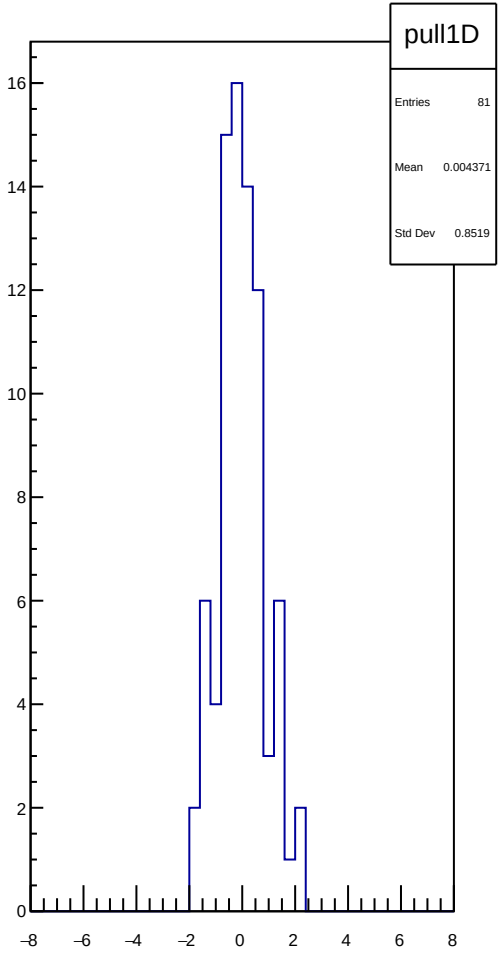

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 11.15 / 80
p0 −243.9 ± 4.586
pull
Entries 81
Mean −9008
Std Dev 0

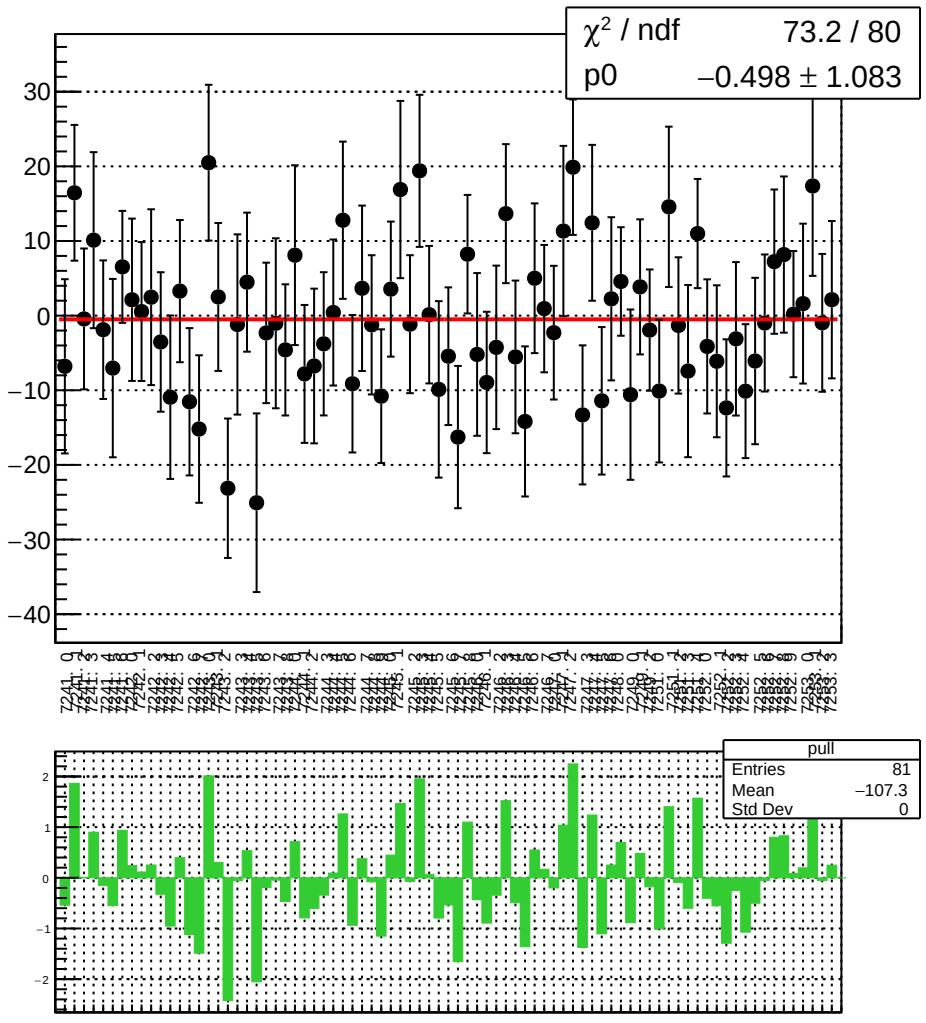

pull1D
Entries 81
Mean −0.0002674
Std Dev 0.371

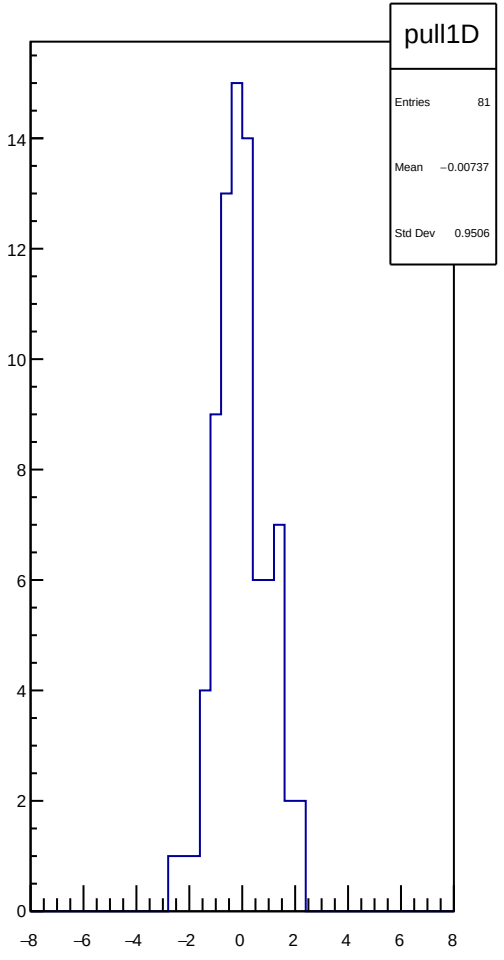

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.739 / 80
p0 −55.08 ± 3.612
pull
Entries 81
Mean −335
Std Dev 0
pull1D
Entries 81
Mean 0.002813
Std Dev 0.3091

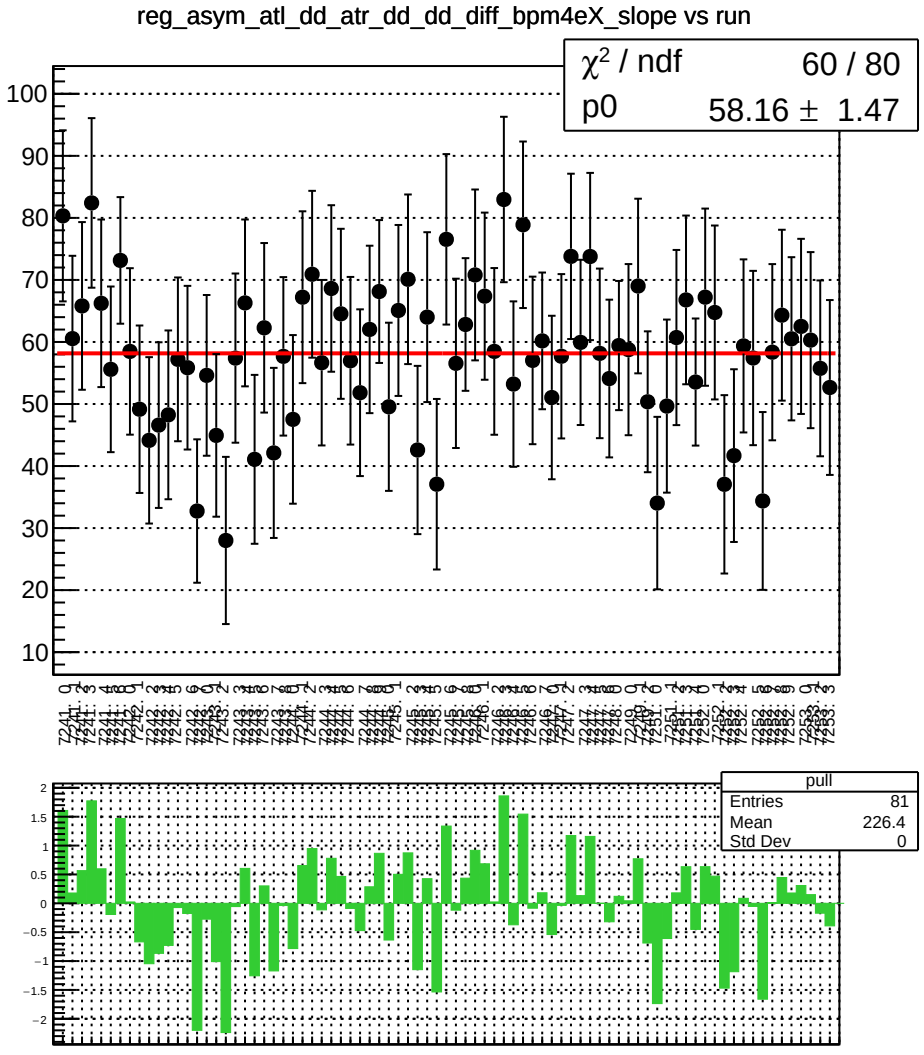

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 13.68 / 80
p0 114.4 ± 0.1614
117
116
115
114
113
112
111
pull
Entries 81
Mean −281.4
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 81
Mean 0.01361
Std Dev 0.4108
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

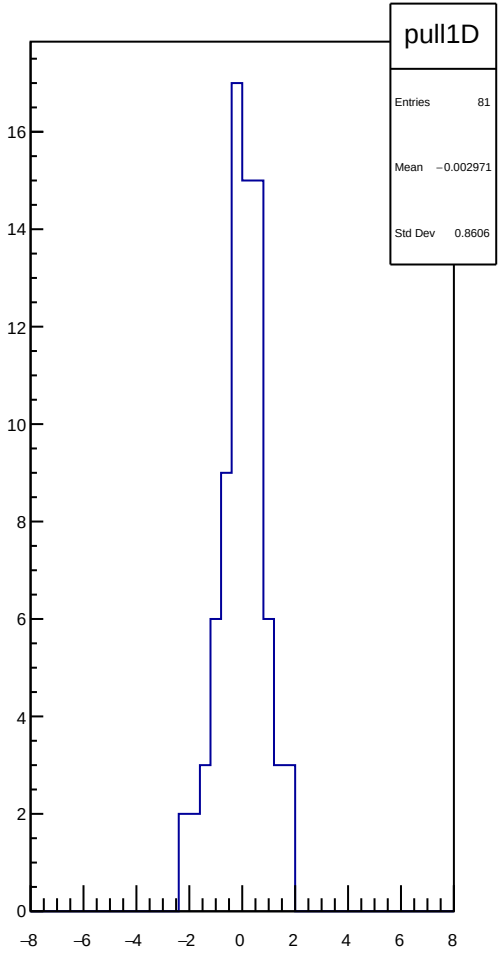

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 58.79 / 80
p0 4.819 ± 1.415
pull
Entries 81
Mean 202
Std Dev 0

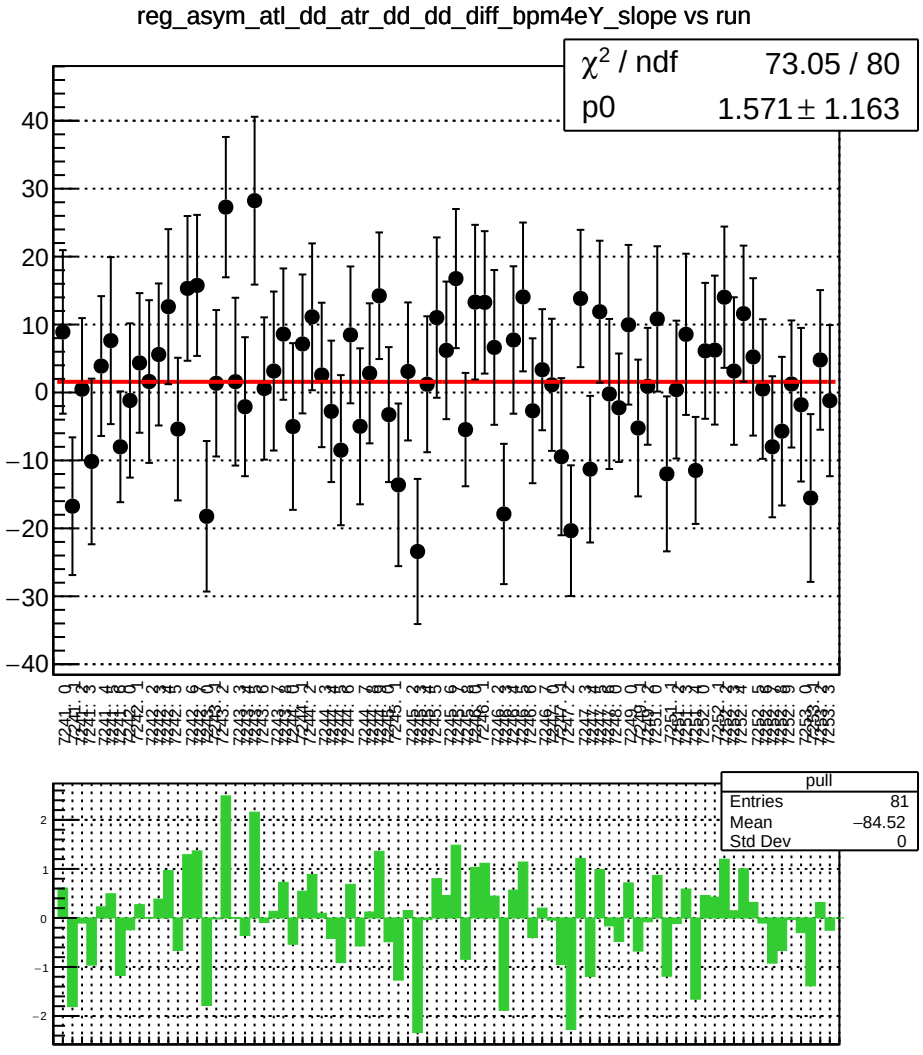

pull1D
Entries 81
Mean 0.004371
Std Dev 0.8519

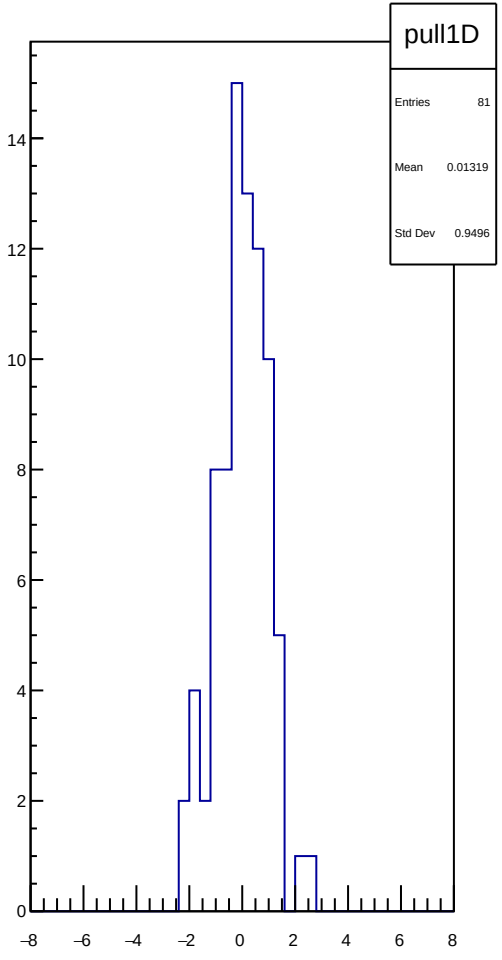

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 73.2 / 80
p0 −0.498 ± 1.083
pull
Entries 81
Mean −107.3
Std Dev 0

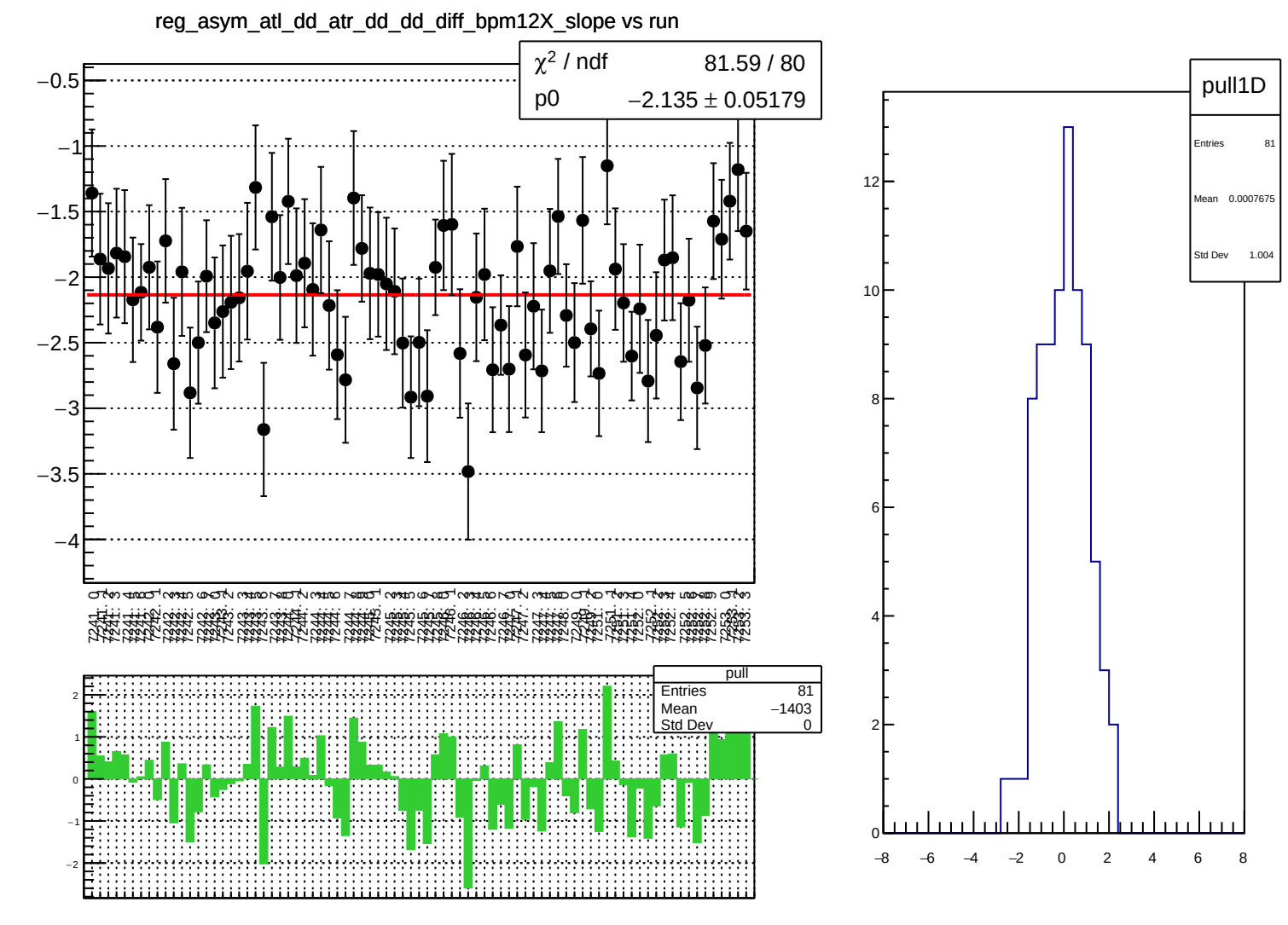

pull1D
Entries 81
Mean −0.00737
Std Dev 0.9506

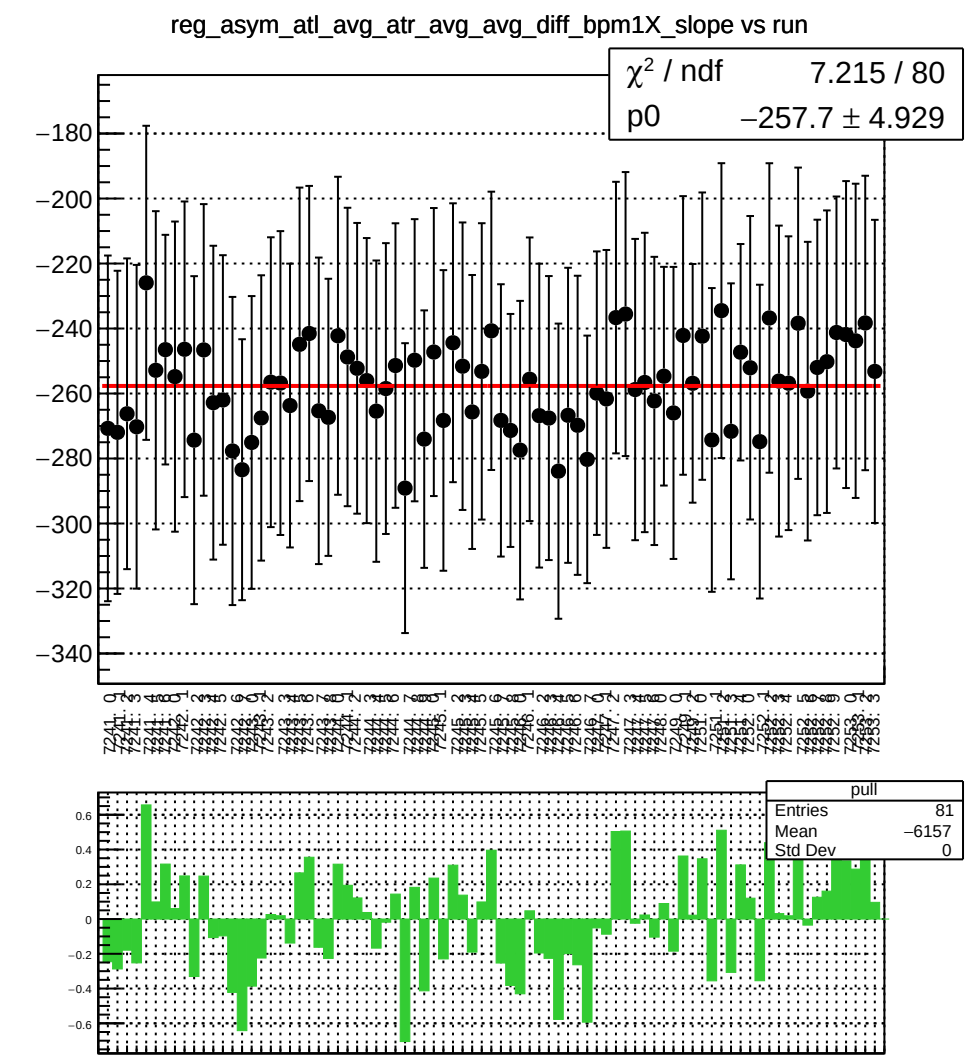

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 60 / 80
p0 58.16 ± 1.47
pull
Entries 81
Mean 226.4
Std Dev 0

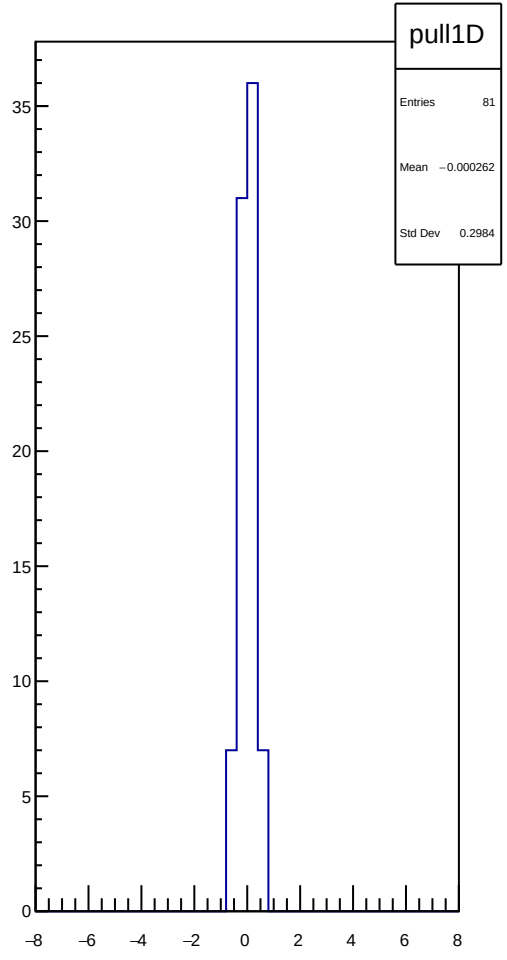

pull1D
Entries 81
Mean −0.002971
Std Dev 0.8606

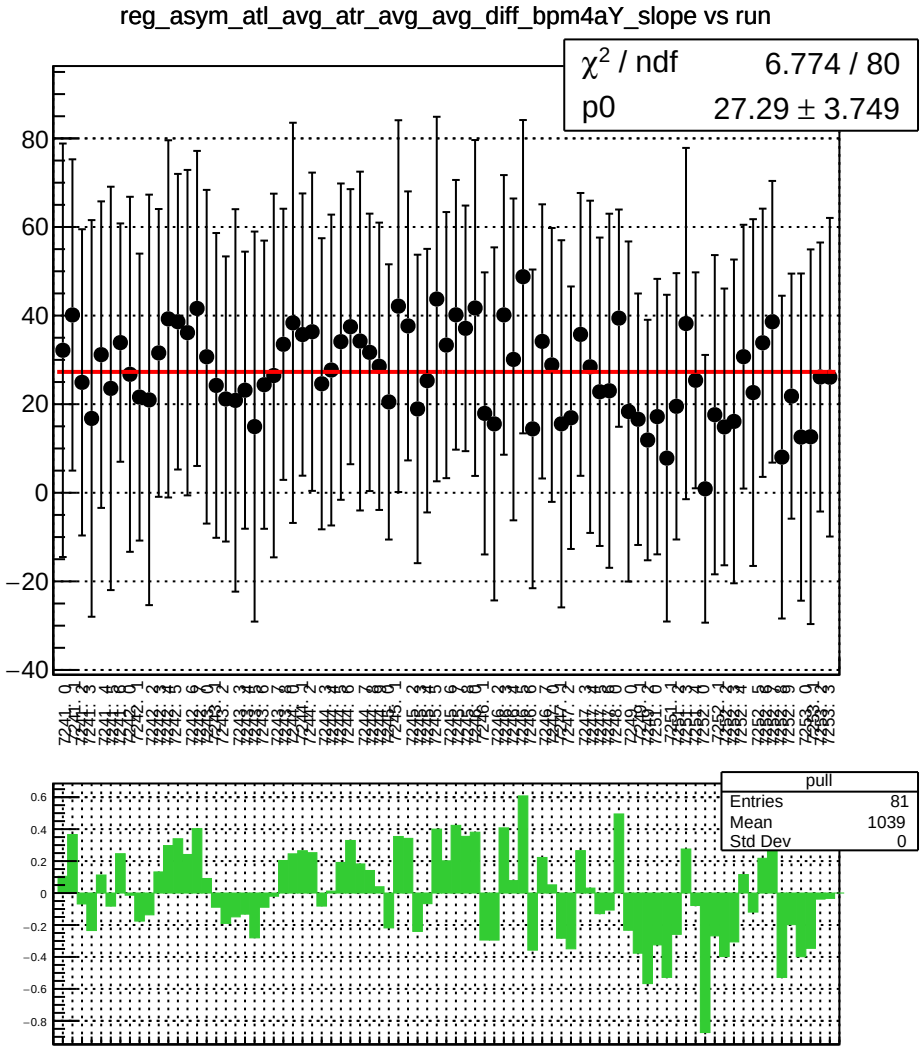

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 73.05 / 80
p0 1.571 ± 1.163
pull
Entries 81
Mean −84.52
Std Dev 0

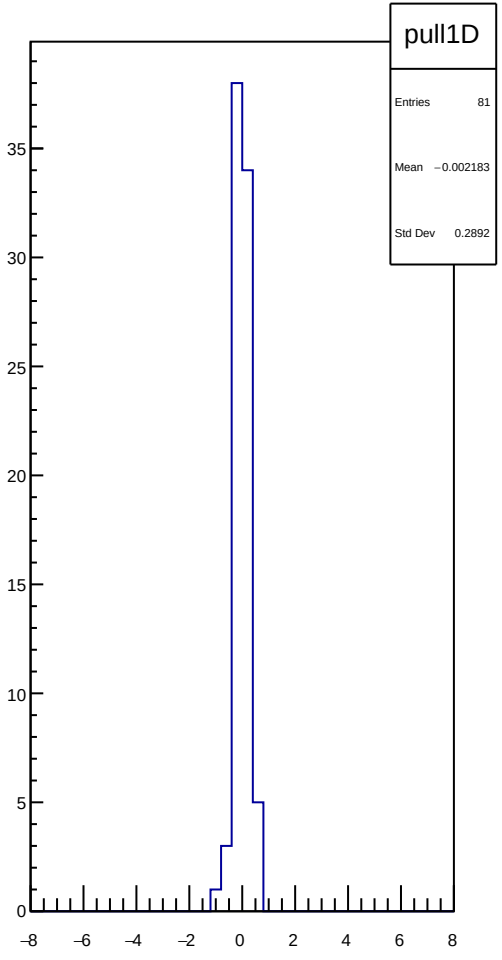

pull1D
Entries 81
Mean 0.01319
Std Dev 0.9496

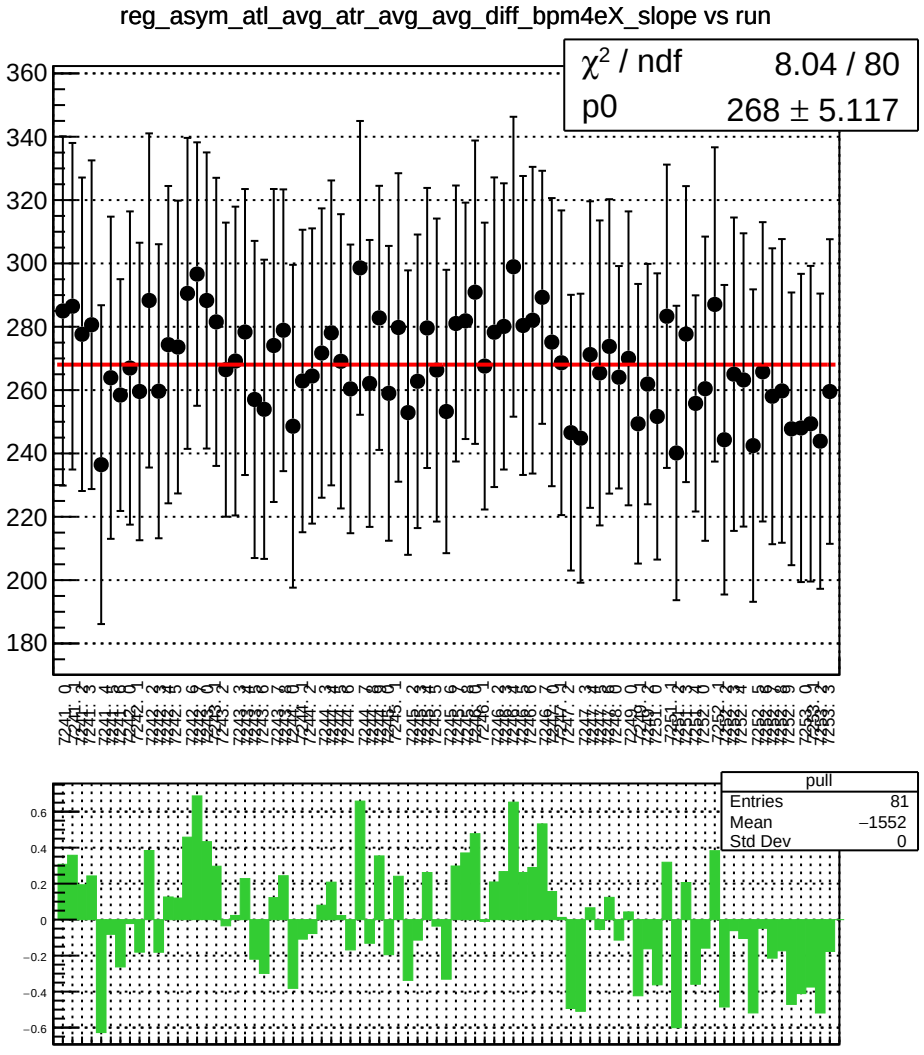

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 81.59 / 80
p0 −2.135 ± 0.05179
pull
Entries 81
Mean −1403
Std Dev 0
pull1D
Entries 81
Mean 0.0007675
Std Dev 1.004

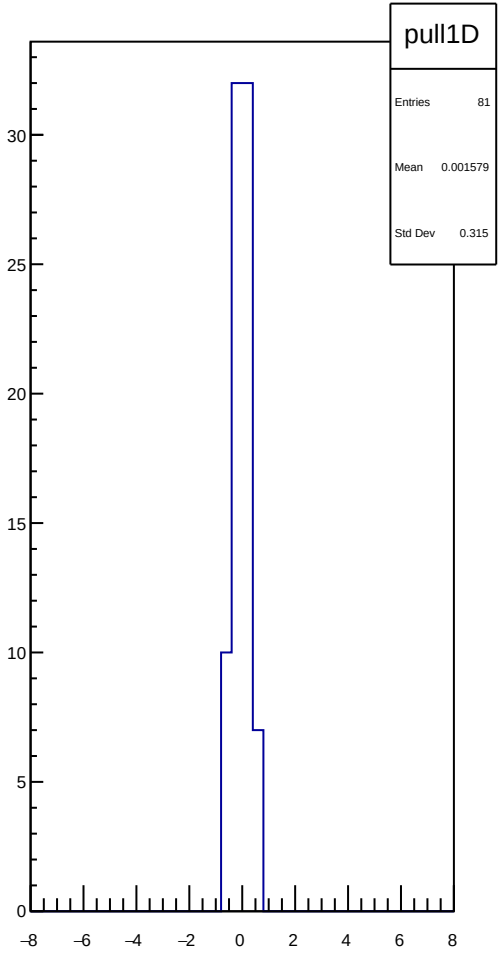

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 7.215 / 80
p0 −257.7 ± 4.929
pull
Entries 81
Mean −6157
Std Dev 0

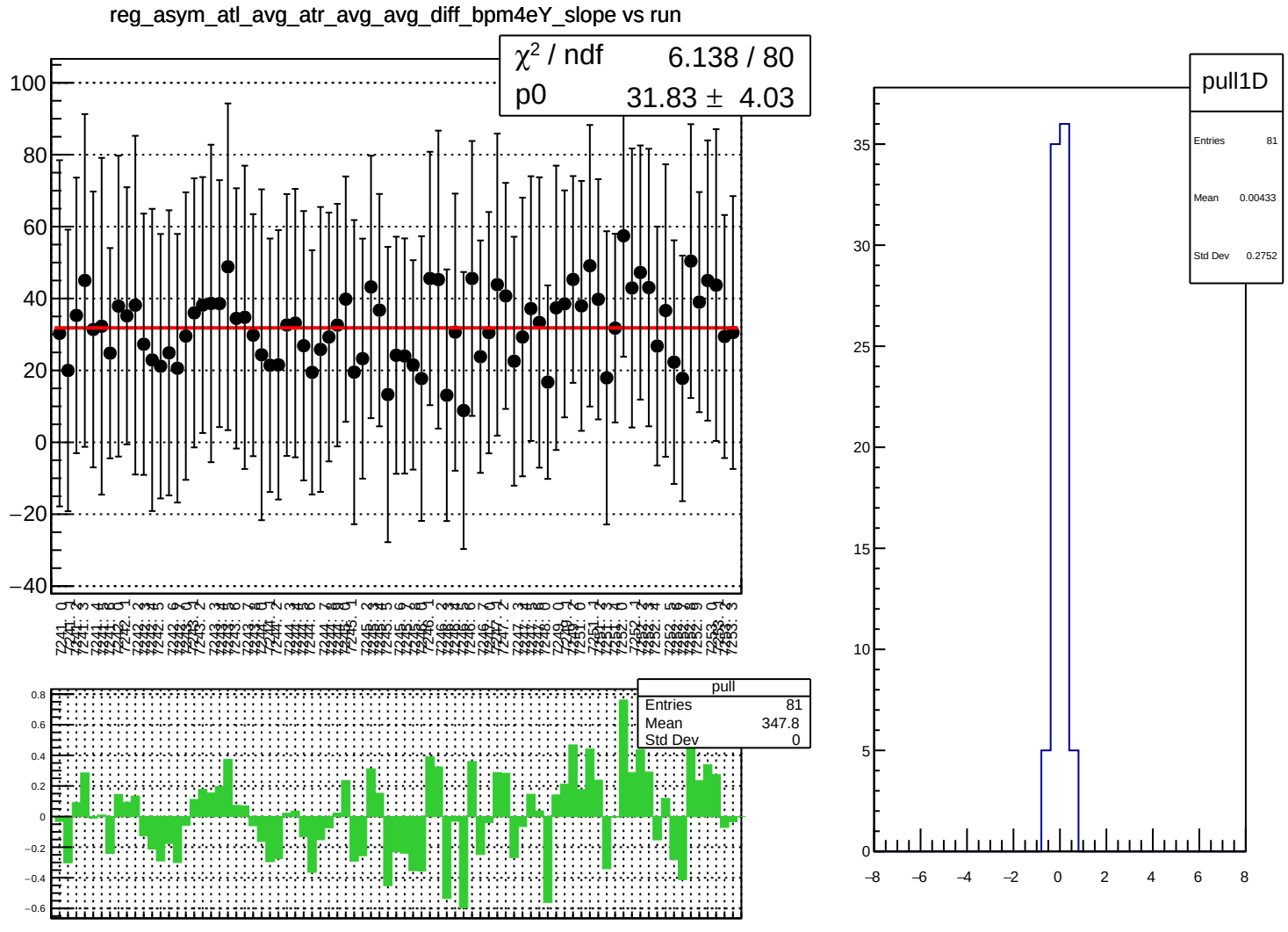

pull1D
Entries 81
Mean −0.000262
Std Dev 0.2984

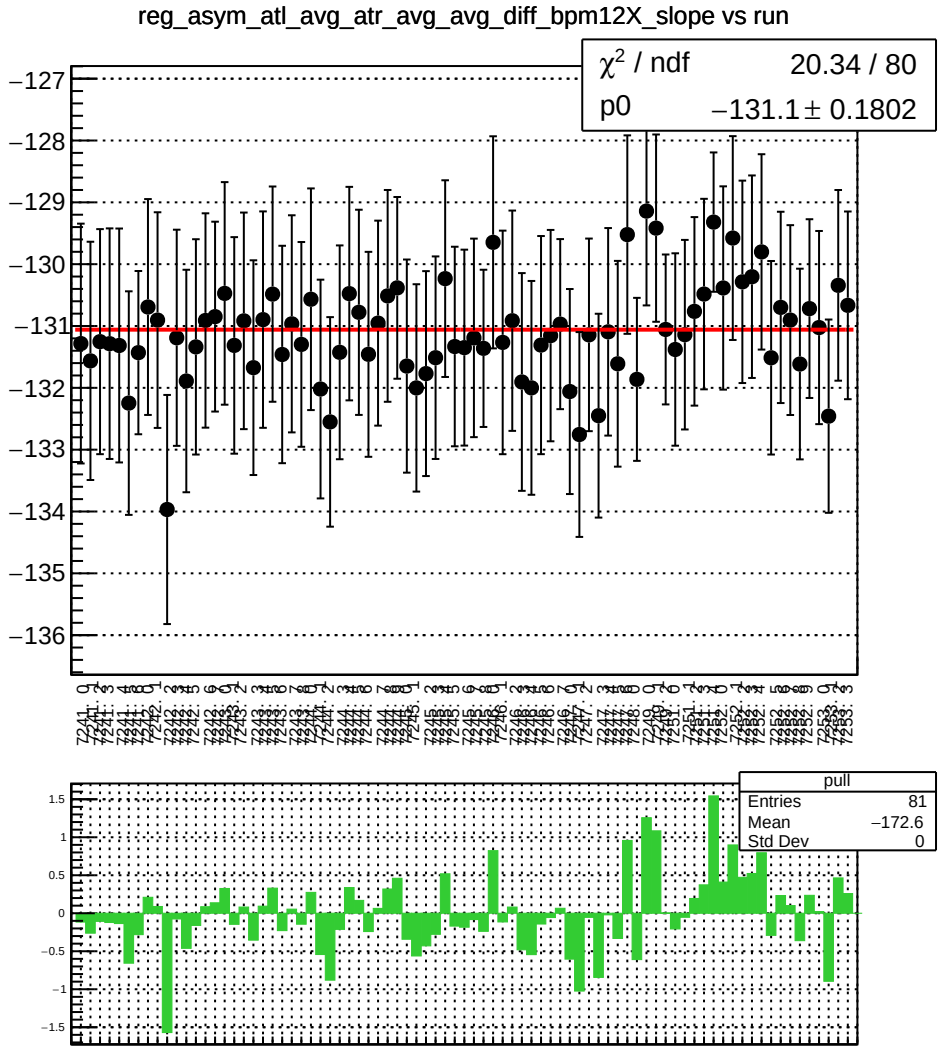

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.774 / 80
p0 27.29 ± 3.749
pull
Entries 81
Mean 1039
Std Dev 0

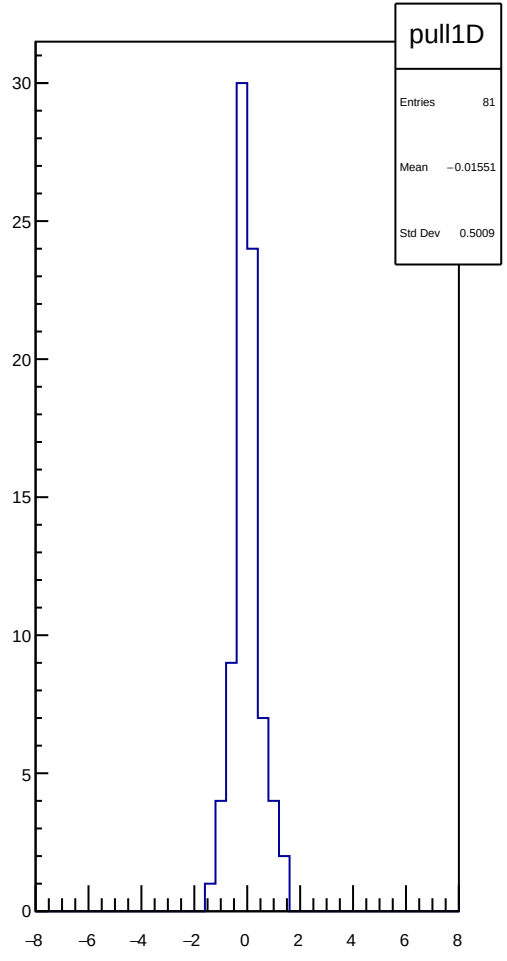

pull1D
Entries 81
Mean −0.002183
Std Dev 0.2892

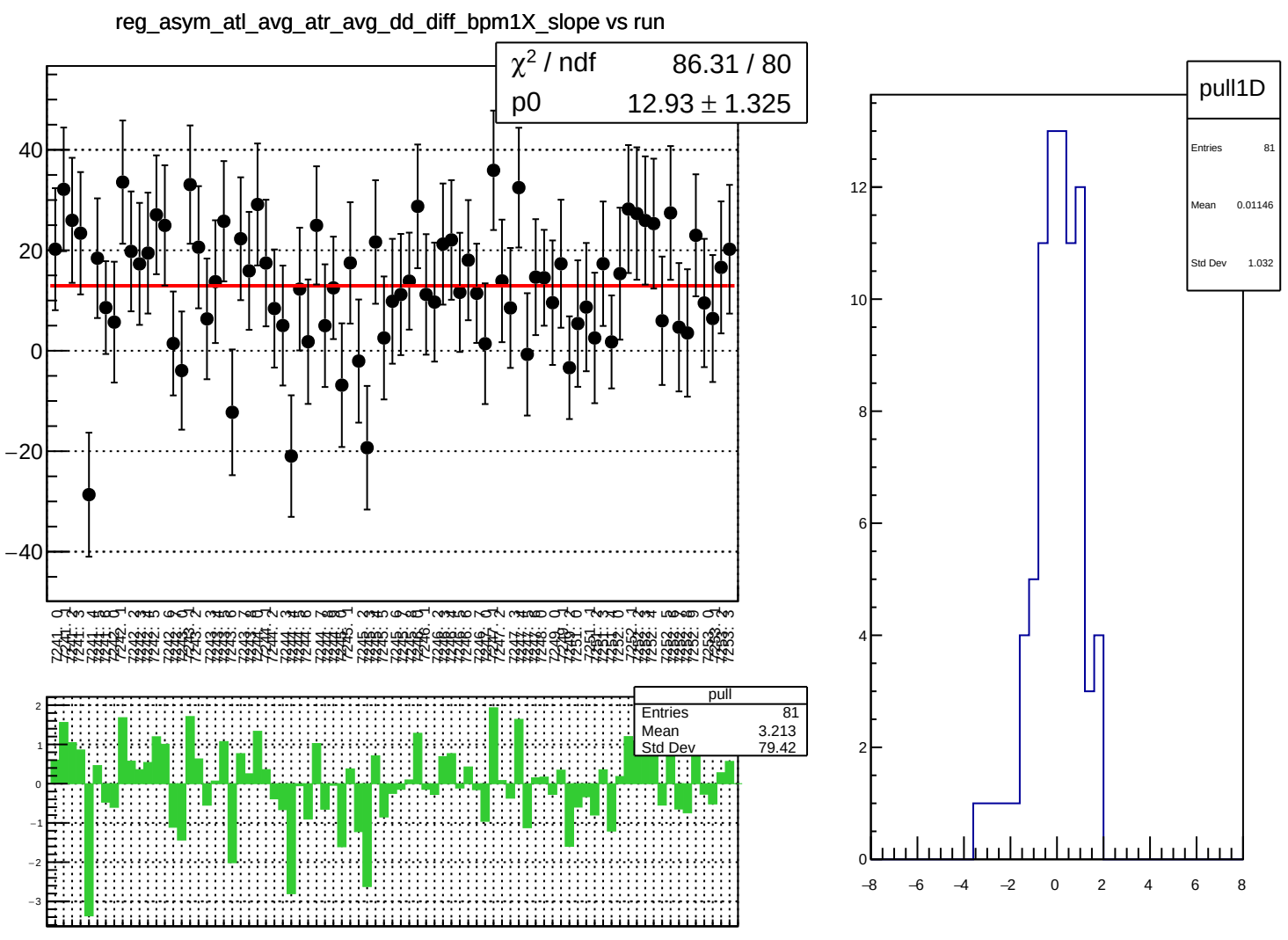

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.04 / 80
p0 268 ± 5.117
pull
Entries 81
Mean −1552
Std Dev 0

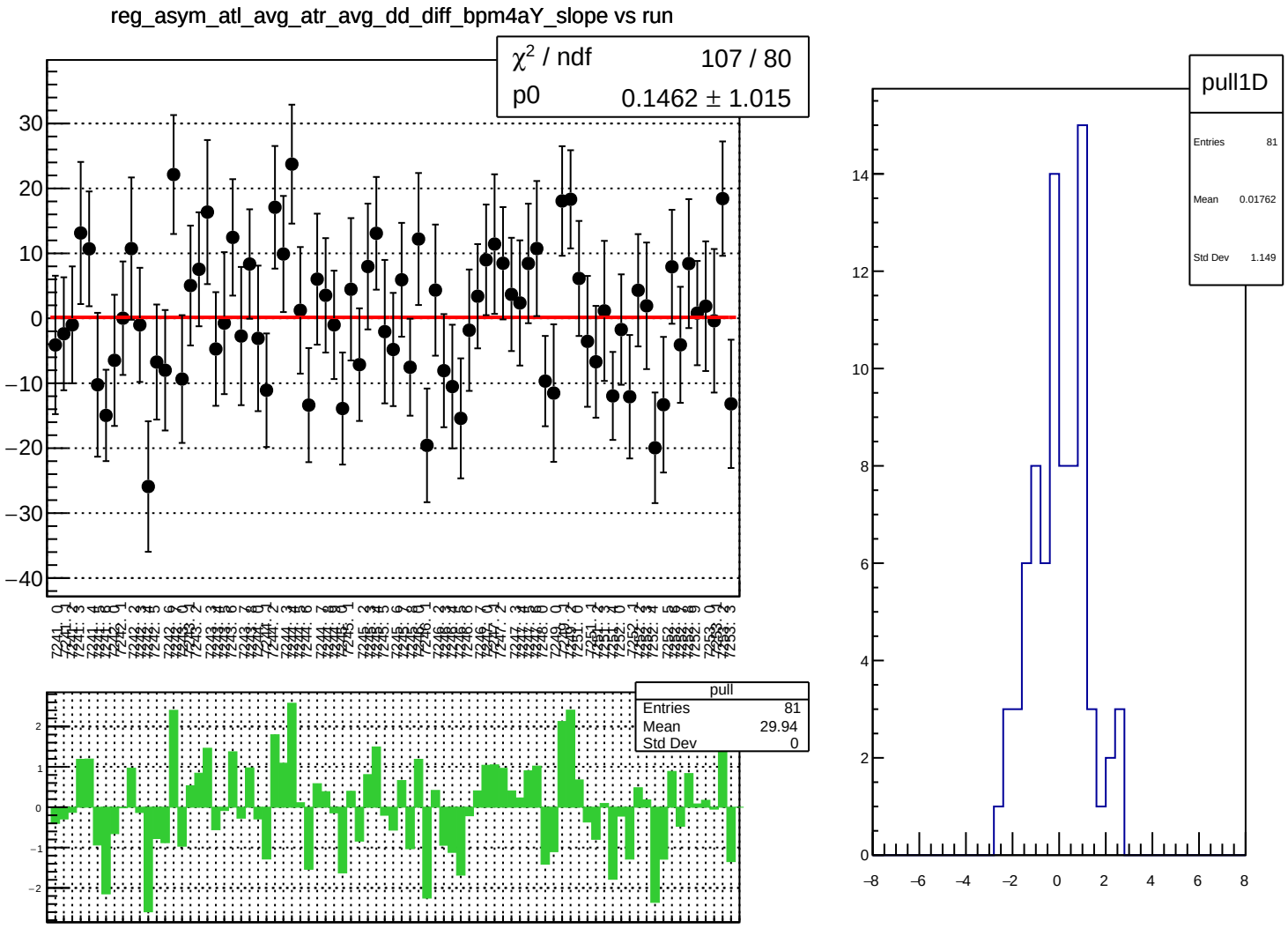

pull1D
Entries 81
Mean 0.001579
Std Dev 0.315

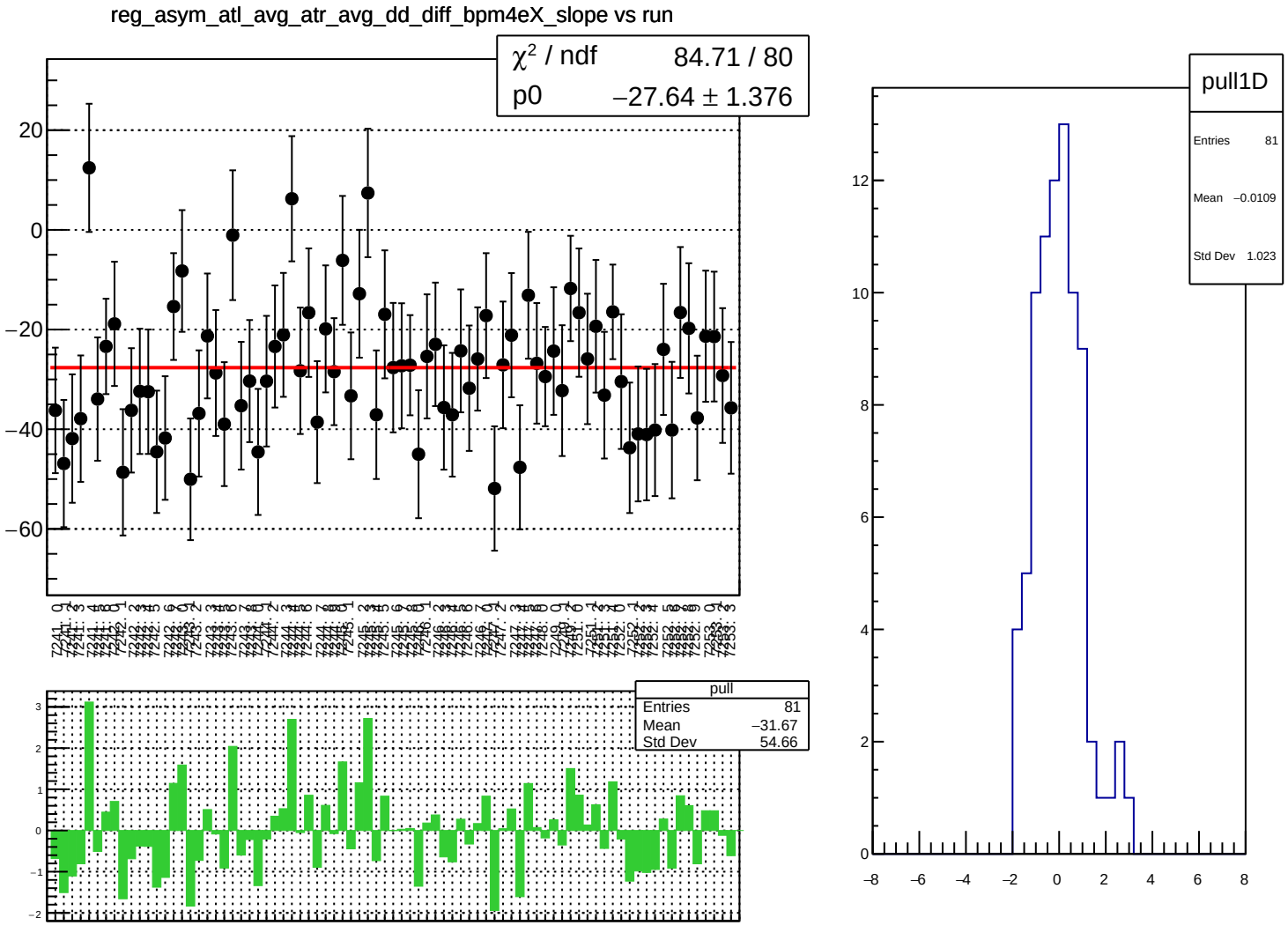

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.138 / 80
p0 31.83 ± 4.03
pull
Entries 81
Mean 347.8
Std Dev 0
pull1D
Entries 81
Mean 0.00433
Std Dev 0.2752

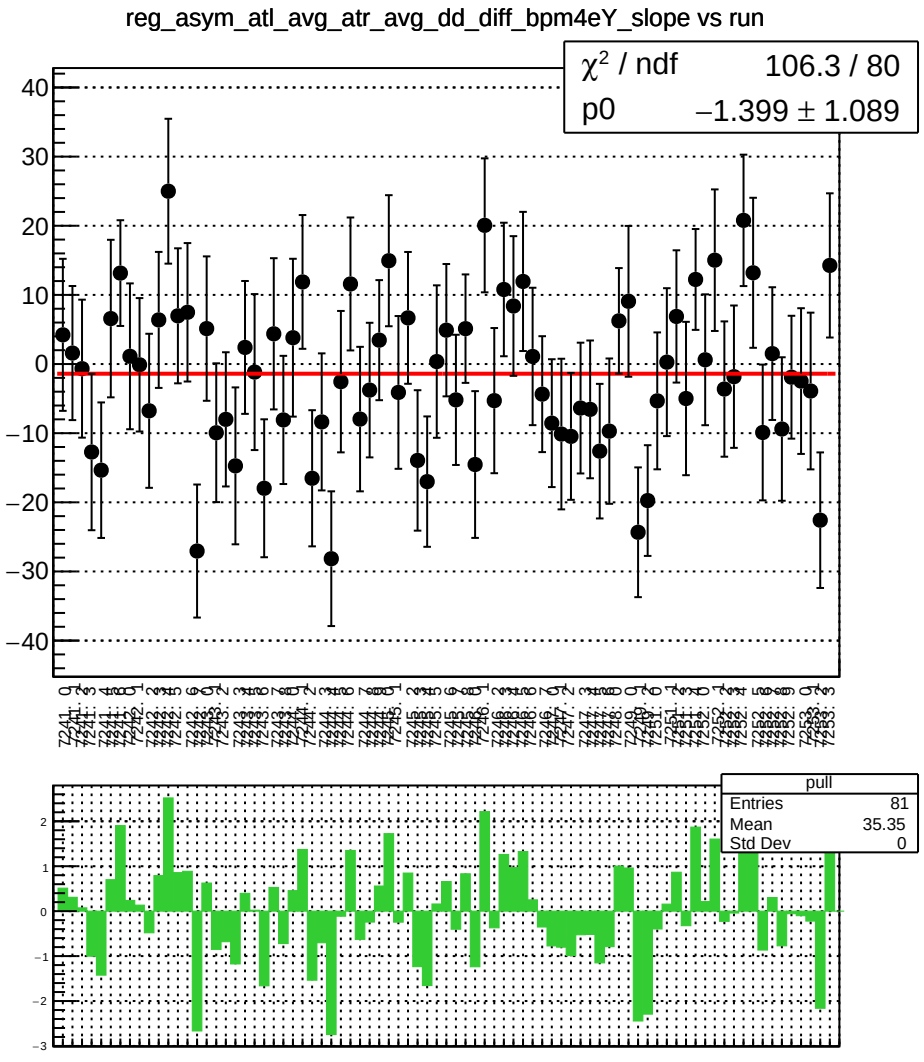

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 20.34 / 80
p0 −131.1 ± 0.1802
pull
Entries 81
Mean −172.6
Std Dev 0

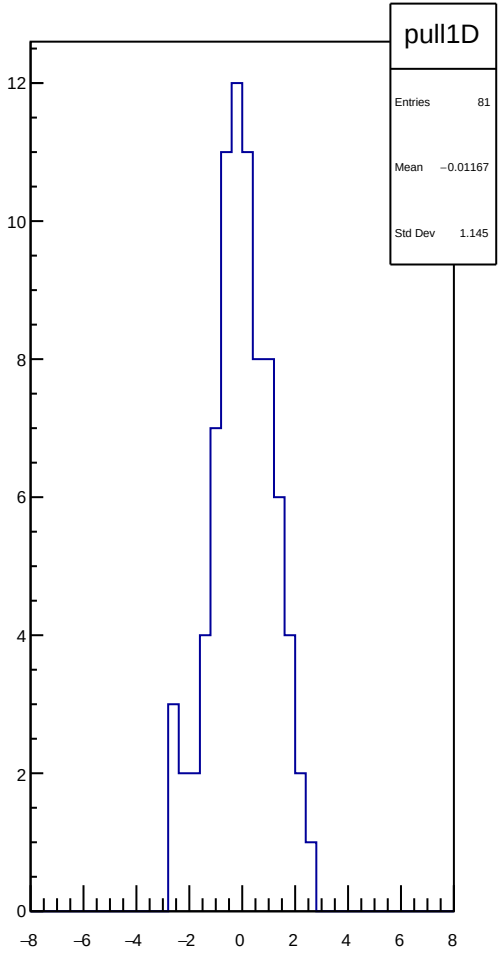

pull1D
Entries 81
Mean −0.01551
Std Dev 0.5009

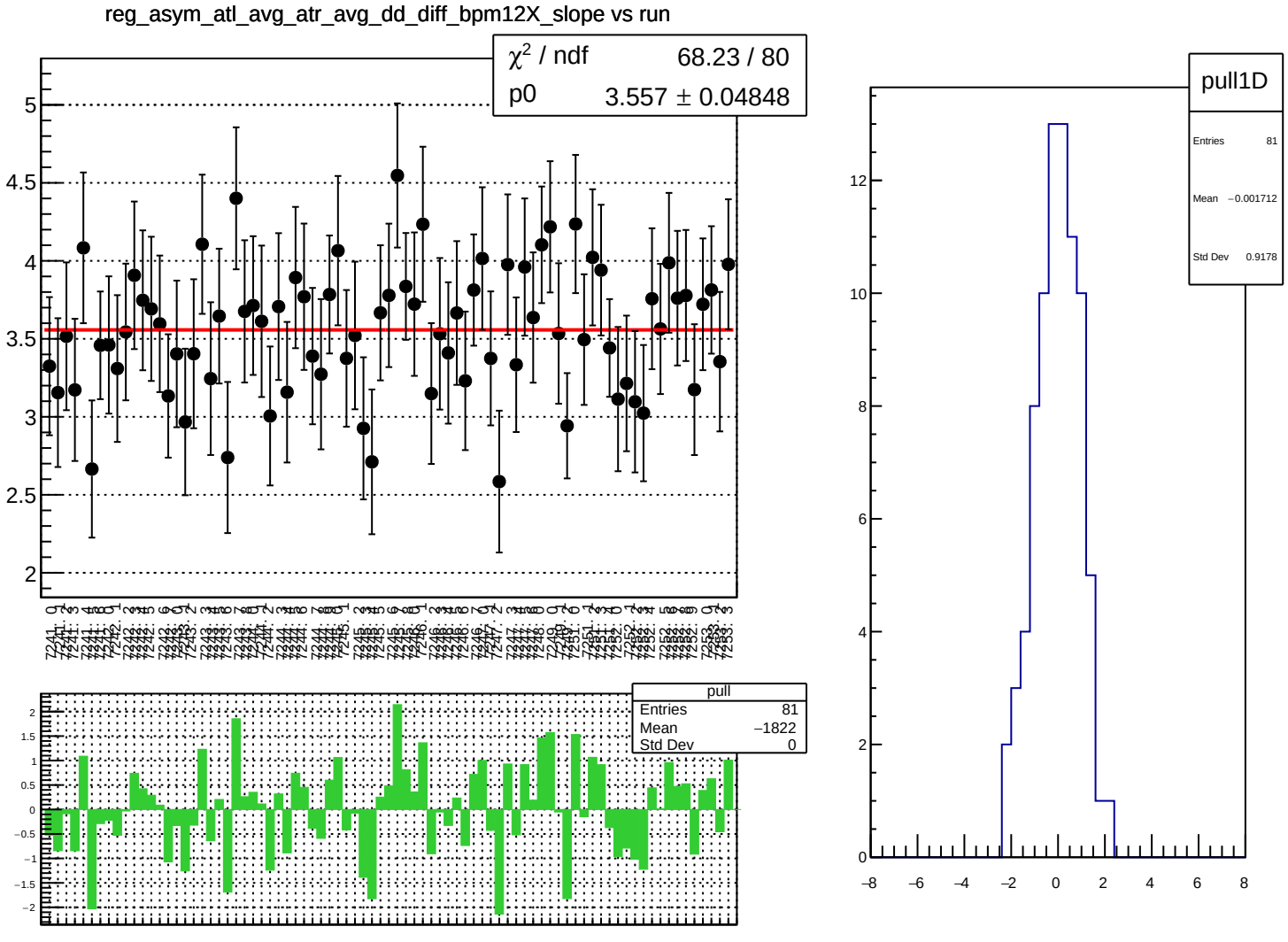

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 86.31 / 80
p0 12.93 ± 1.325
pull
Entries 81
Mean 3.213
Std Dev 79.42
pull1D
Entries 81
Mean 0.01146
Std Dev 1.032

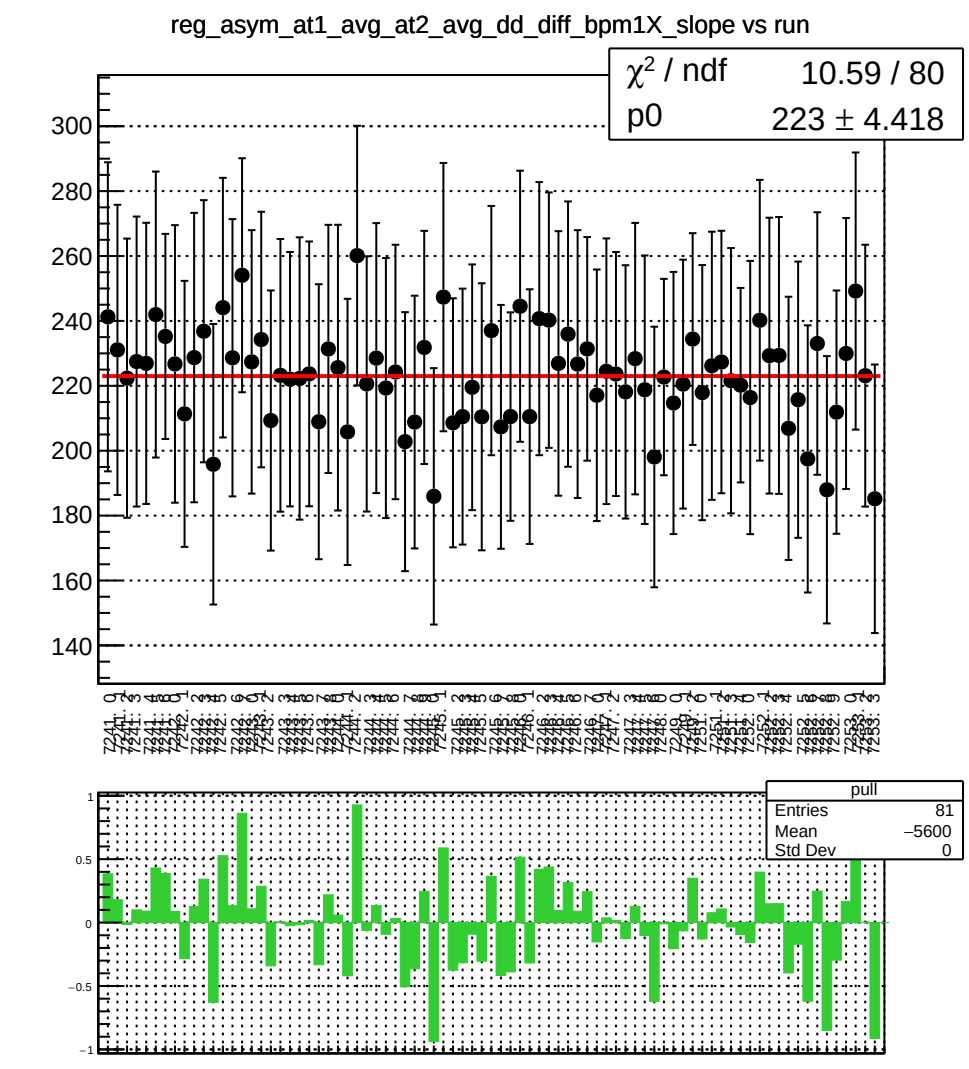

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 107 / 80
p0 0.1462 ± 1.015
pull
Entries 81
Mean 29.94
Std Dev 0
pull1D
Entries 81
Mean 0.01762
Std Dev 1.149

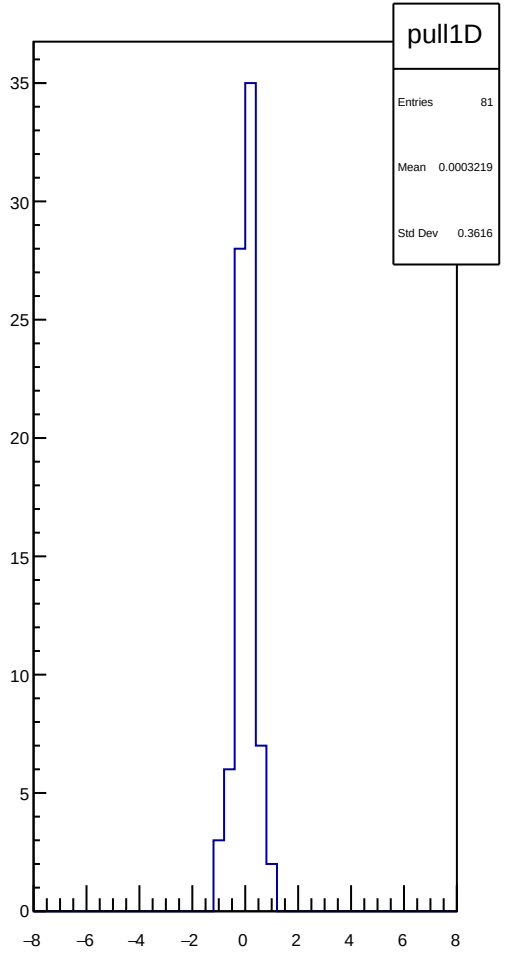

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 84.71 / 80
p0 −27.64 ± 1.376
pull
Entries 81
Mean −31.67
Std Dev 54.66
pull1D
Entries 81
Mean −0.0109
Std Dev 1.023

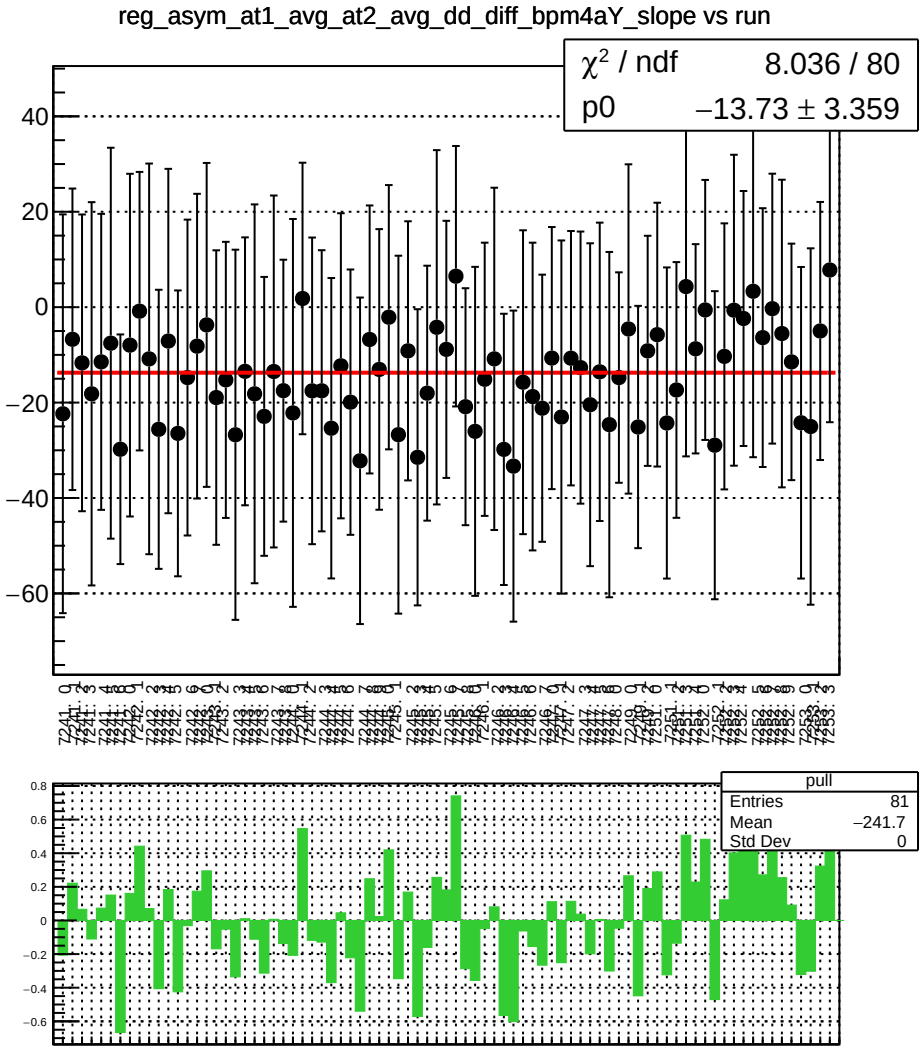

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 106.3 / 80
p0 −1.399 ± 1.089
pull
Entries 81
Mean 35.35
Std Dev 0

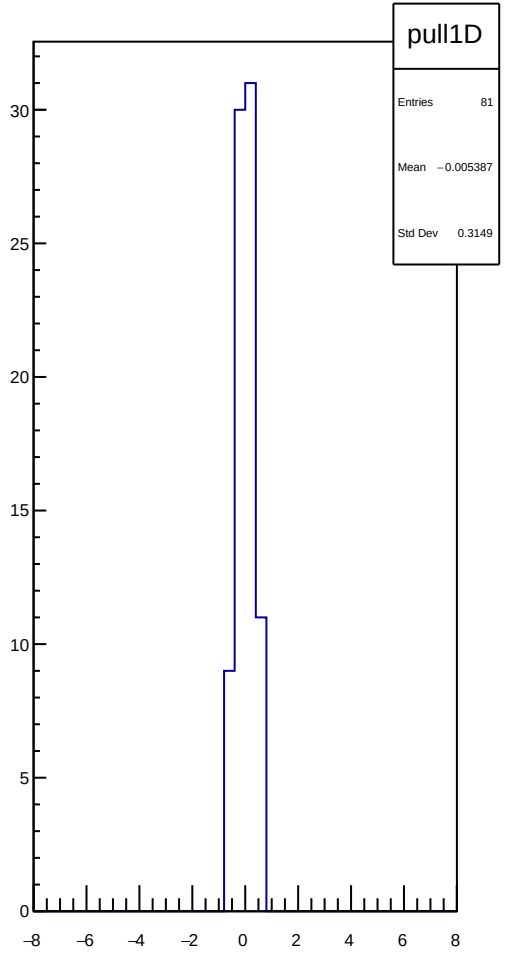

pull1D
Entries 81
Mean −0.01167
Std Dev 1.145

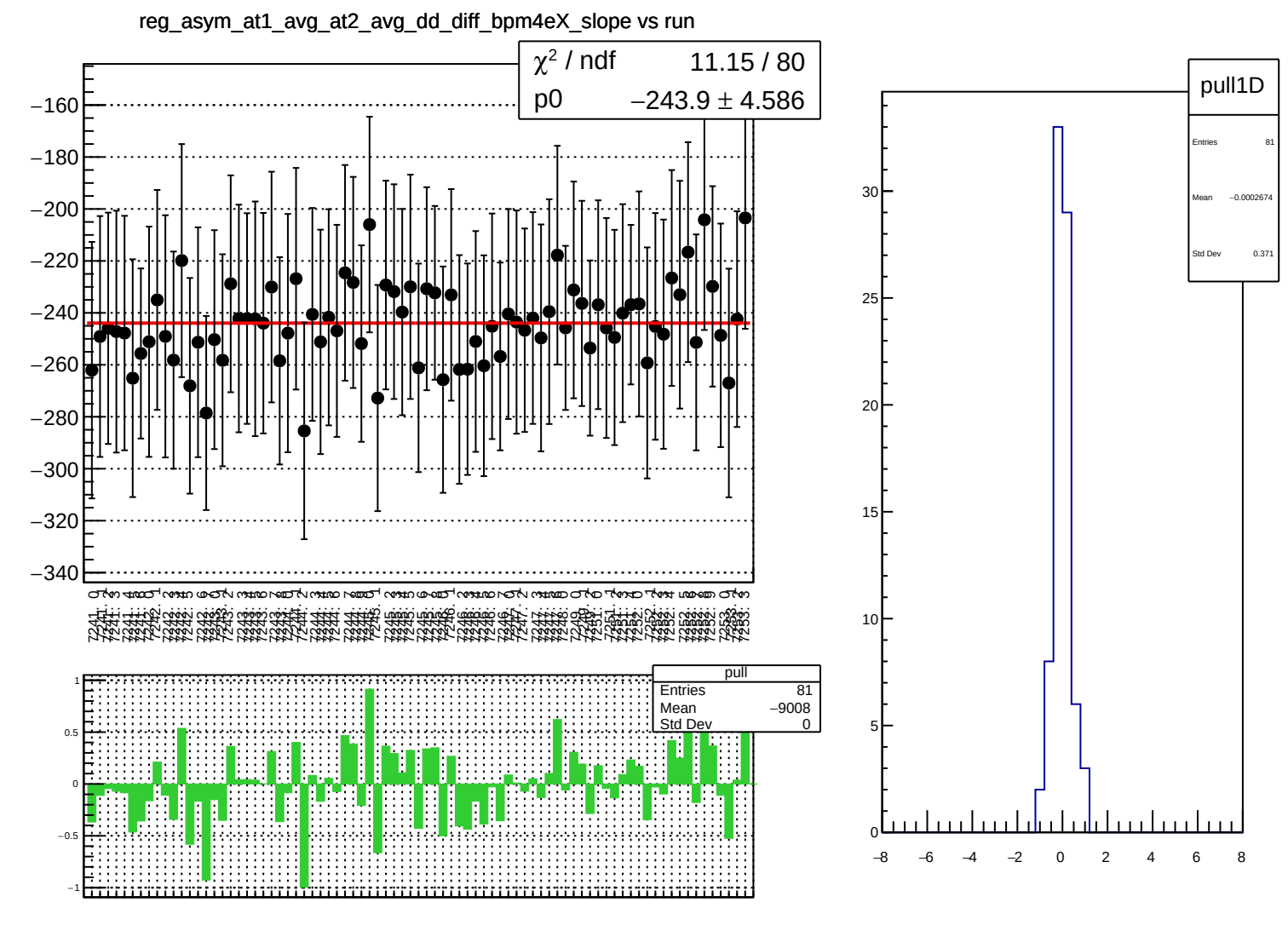

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 68.23 / 80
p0 3.557 ± 0.04848
pull
Entries 81
Mean −1822
Std Dev 0
pull1D
Entries 81
Mean −0.001712
Std Dev 0.9178

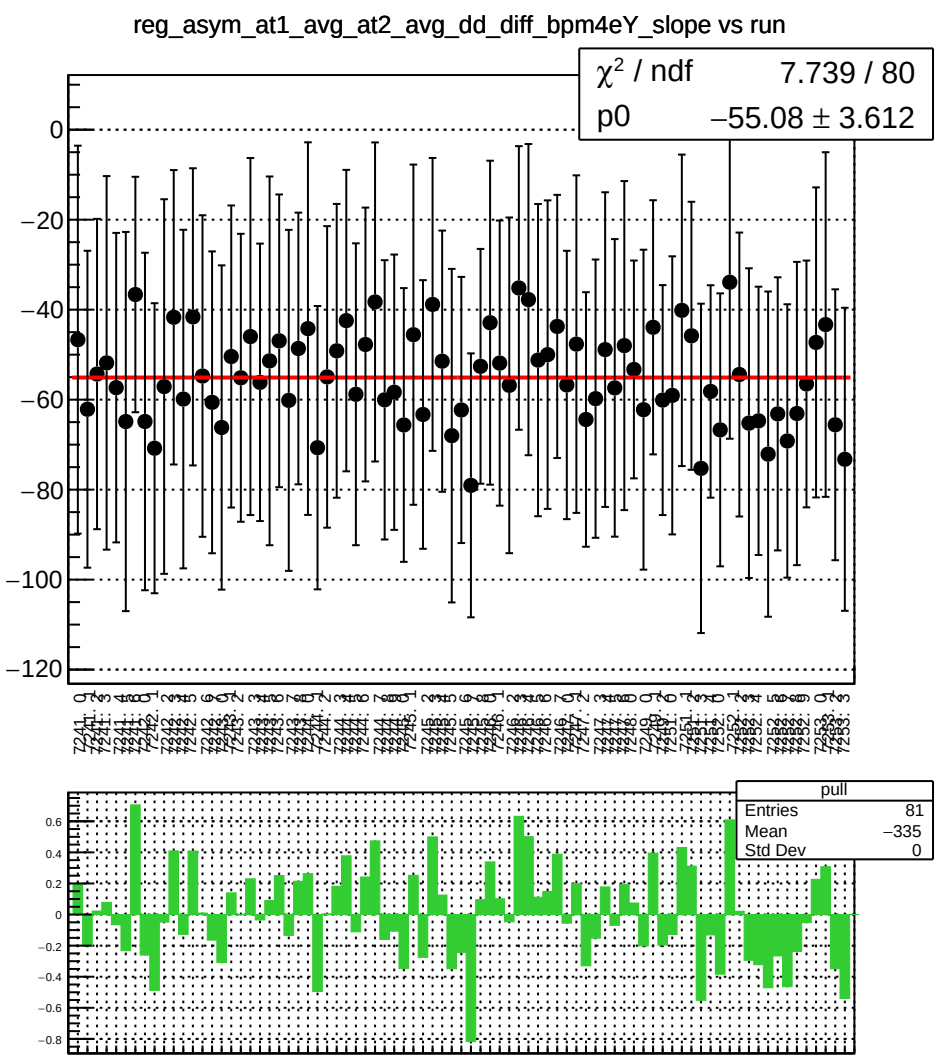

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 10.59 / 80
p0 223 ± 4.418
pull
Entries 81
Mean −5600
Std Dev 0

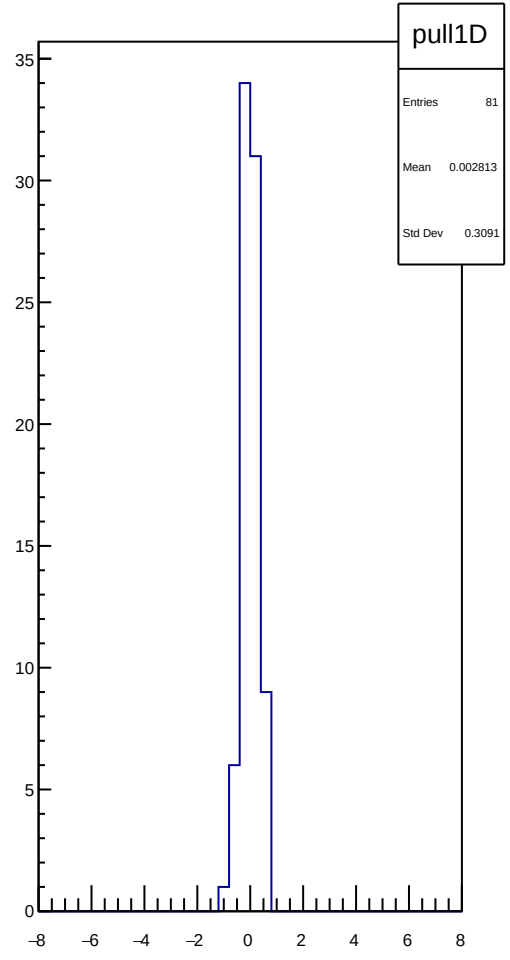

pull1D
Entries 81
Mean 0.0003219
Std Dev 0.3616

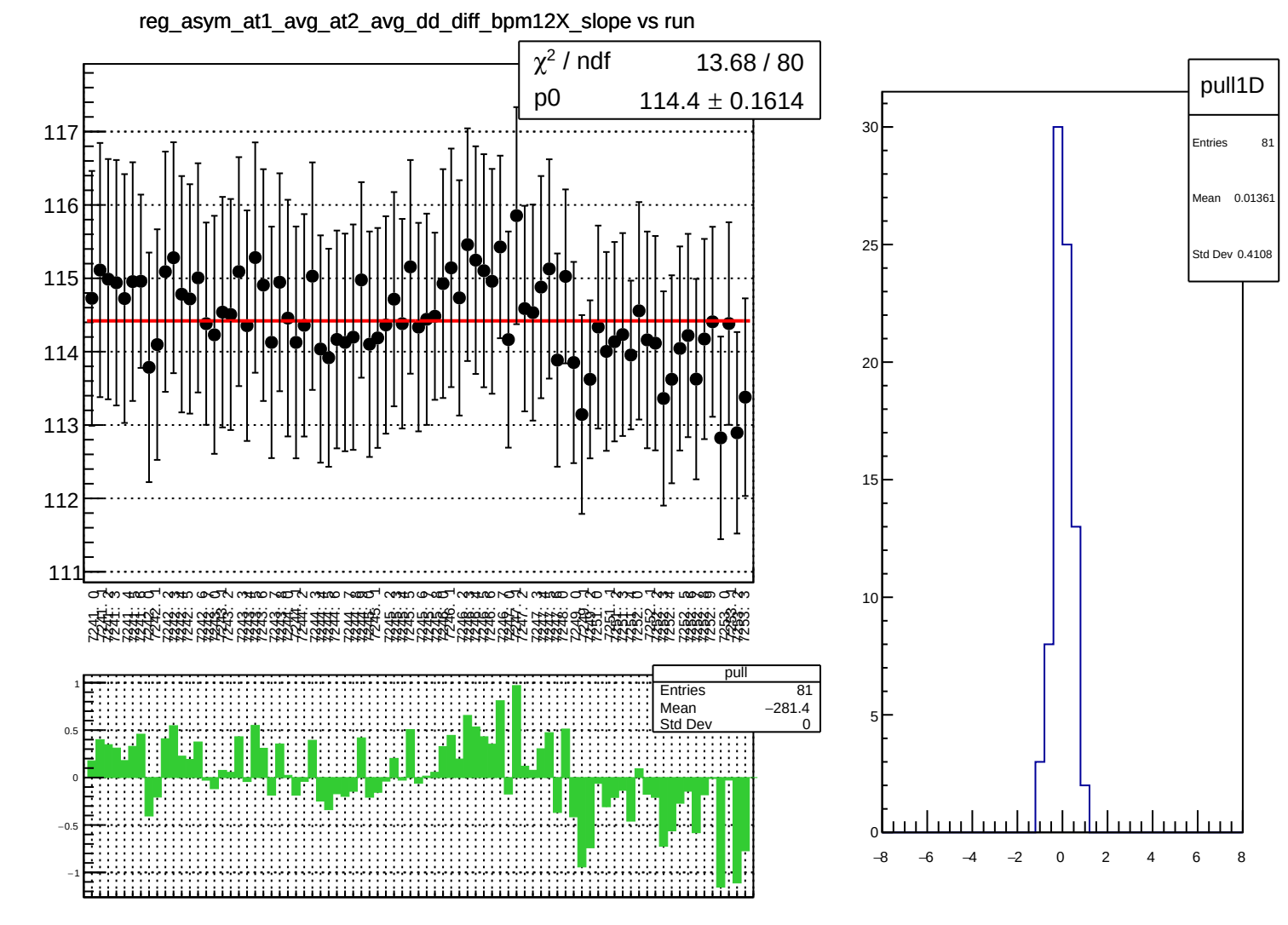

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.036 / 80
p0 −13.73 ± 3.359
pull
Entries 81
Mean −241.7
Std Dev 0

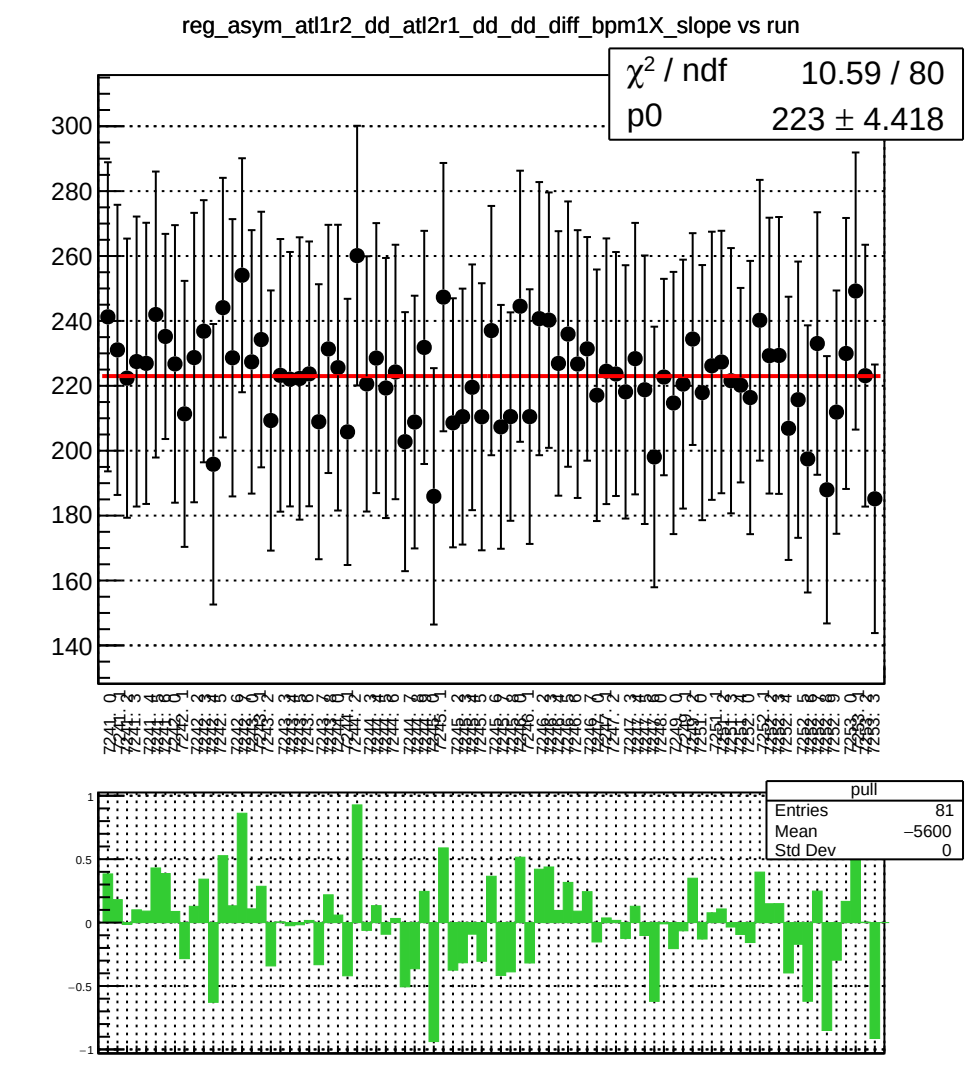

pull1D
Entries 81
Mean −0.005387
Std Dev 0.3149

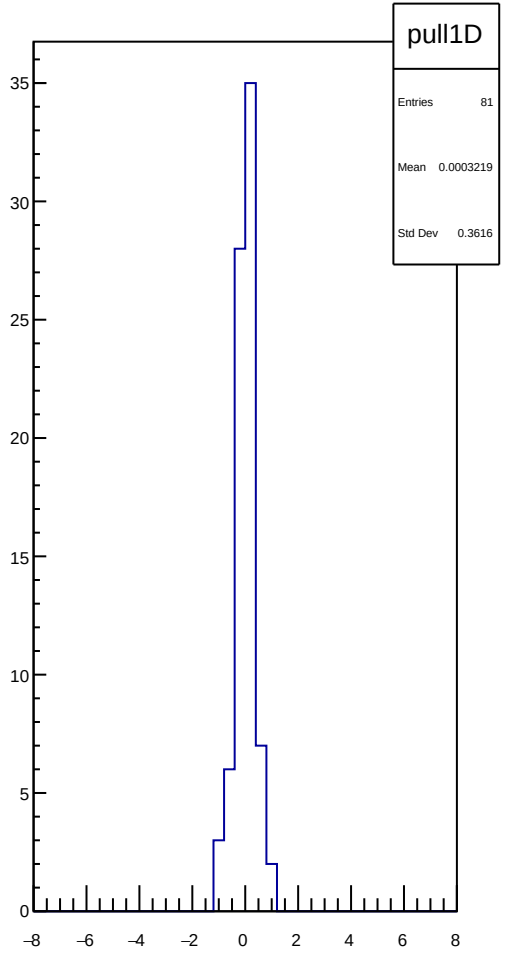

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.15 / 80
p0 −243.9 ± 4.586
pull
Entries 81
Mean −9008
Std Dev 0
pull1D
Entries 81
Mean −0.0002674
Std Dev 0.371

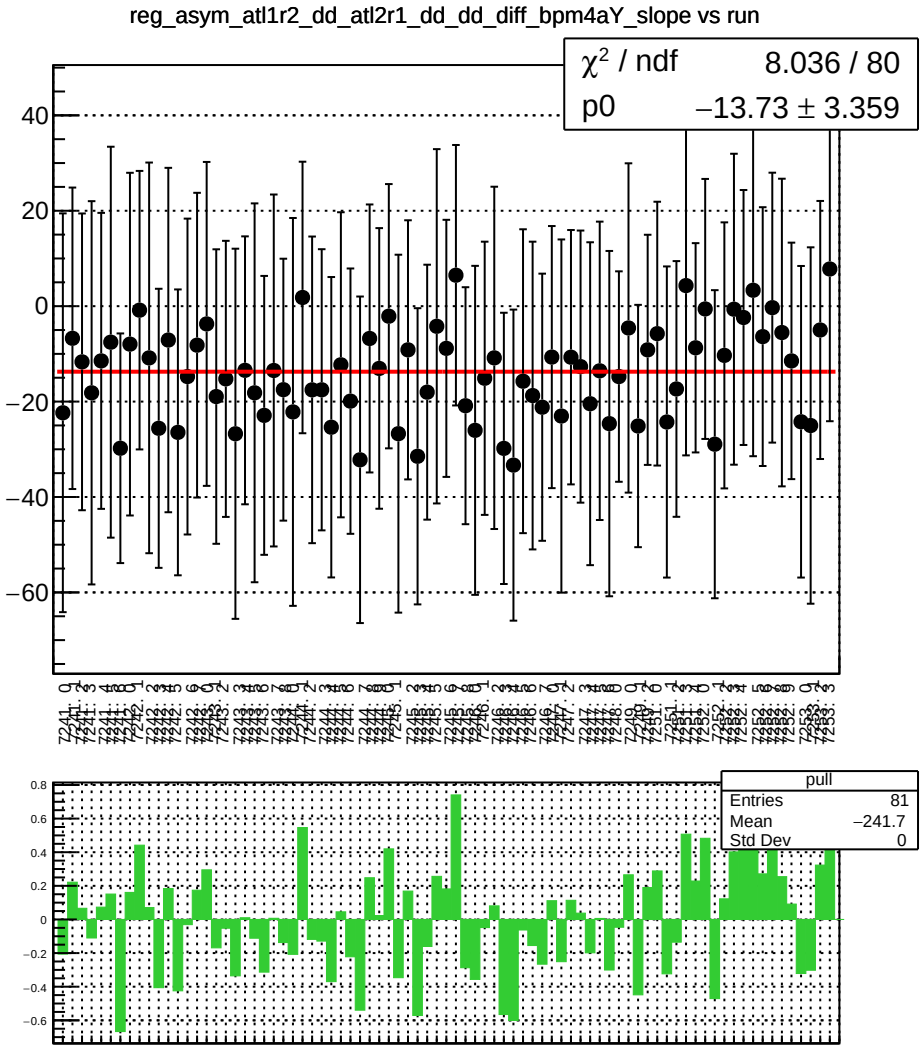

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.739 / 80
p0 −55.08 ± 3.612
pull
Entries 81
Mean −335
Std Dev 0

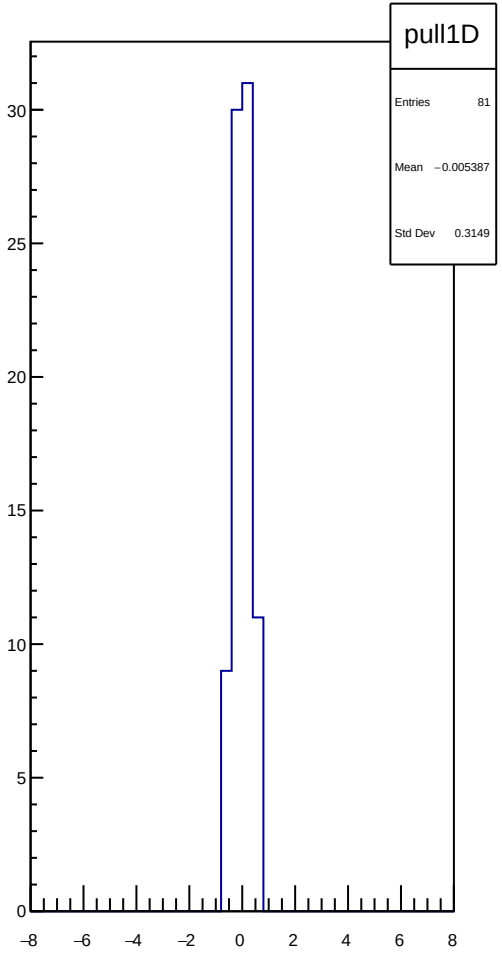

pull1D
Entries 81
Mean 0.002813
Std Dev 0.3091

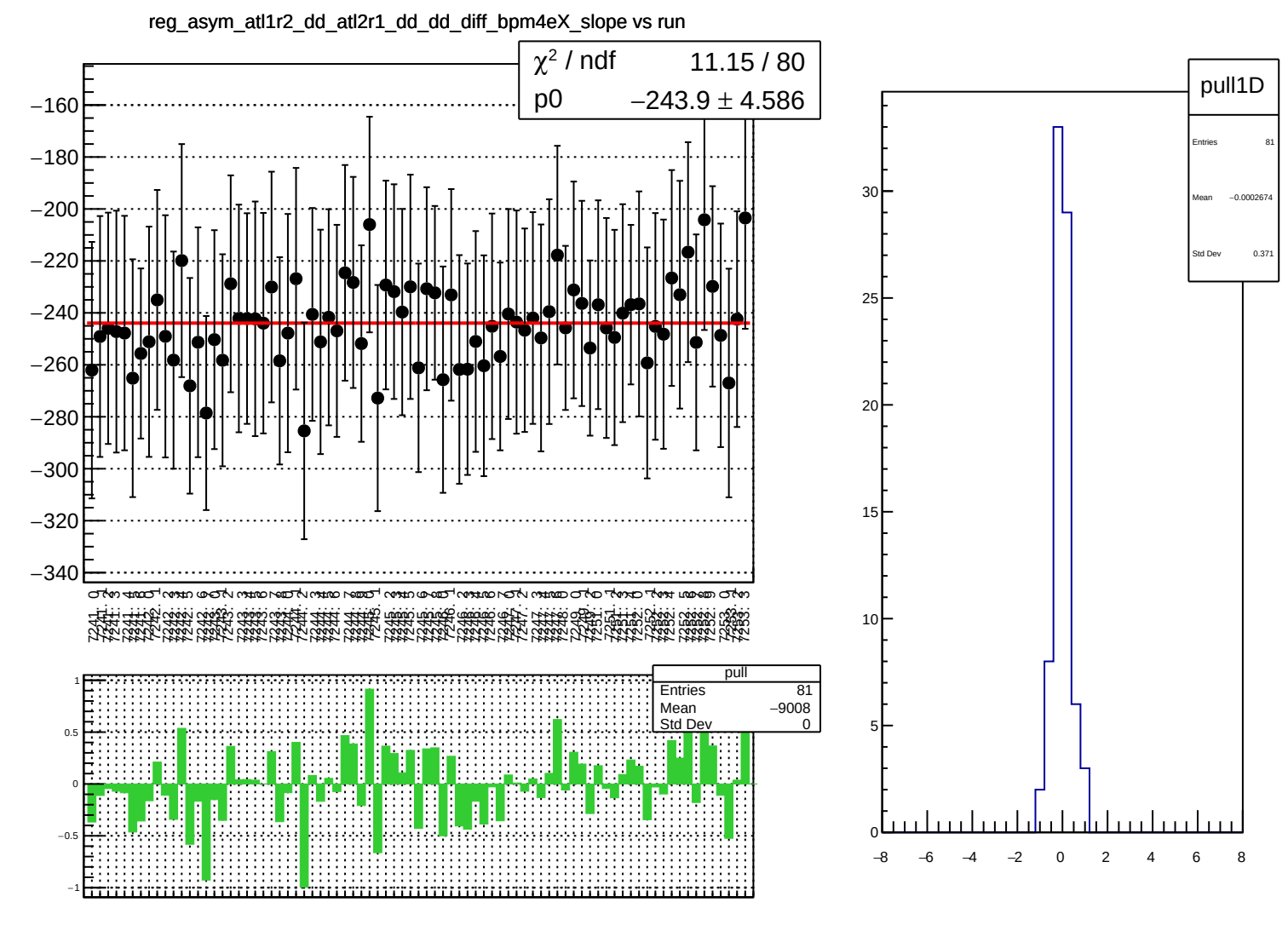

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 13.68 / 80
p0 114.4 ± 0.1614
pull
Entries 81
Mean −281.4
Std Dev 0
pull1D
Entries 81
Mean 0.01361
Std Dev 0.4108

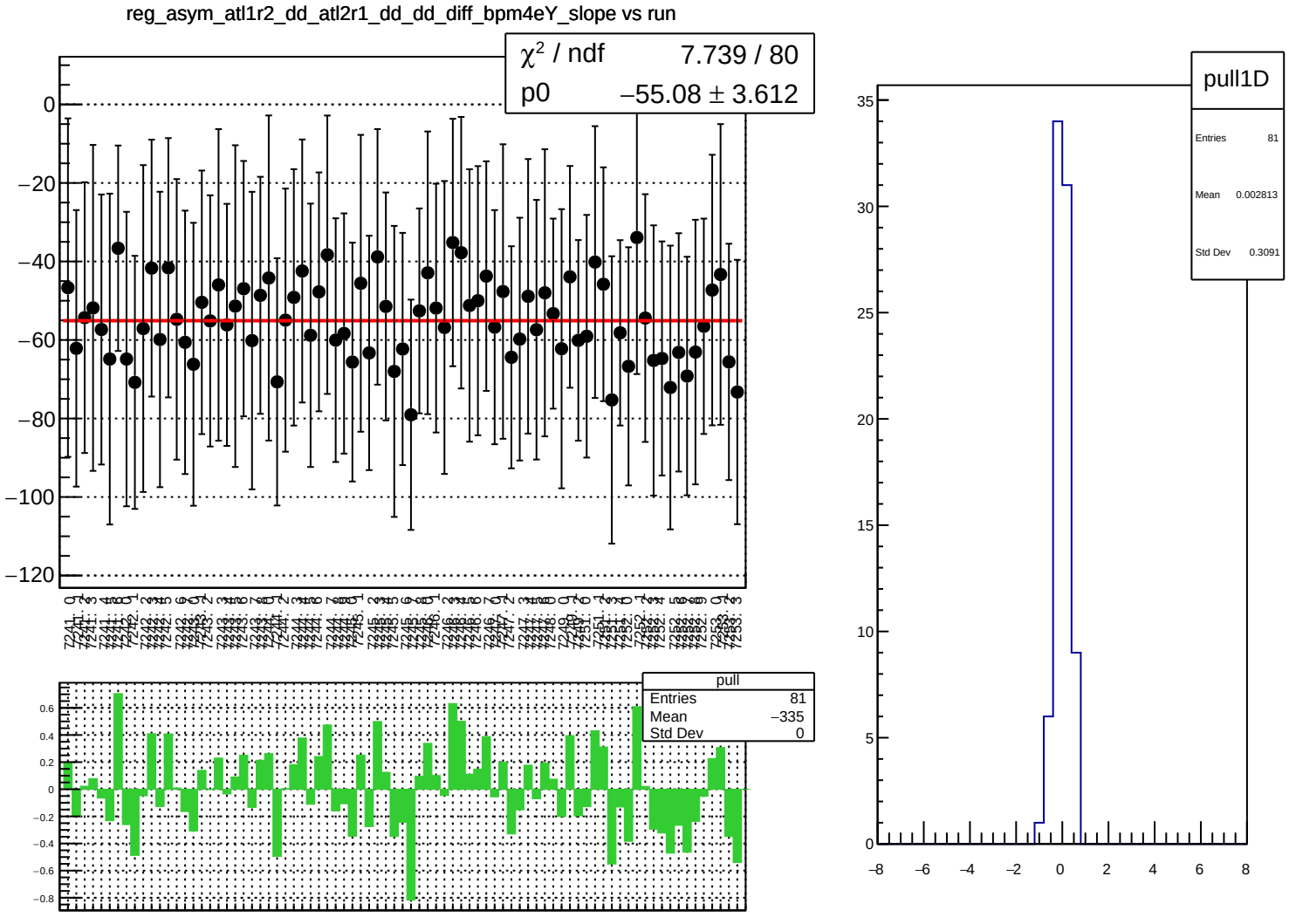

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 10.59 / 80
p0 223 ± 4.418
pull
Entries 81
Mean −5600
Std Dev 0

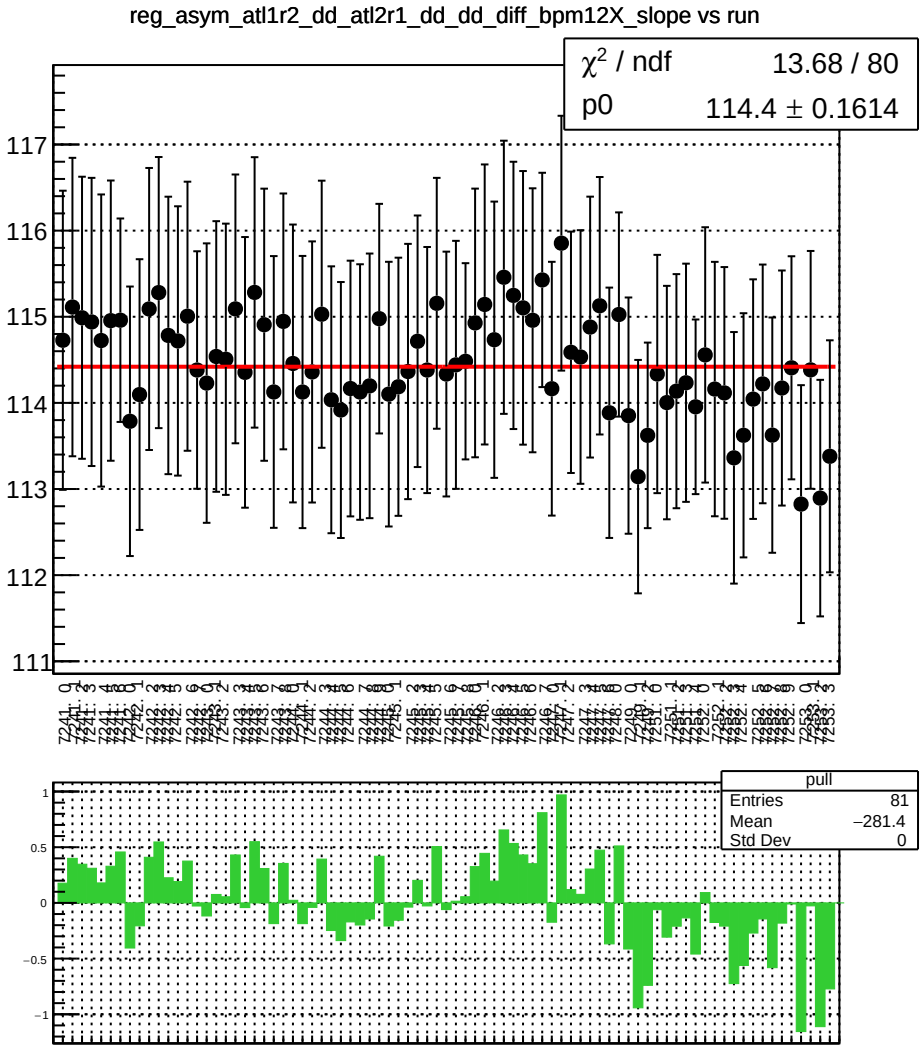

pull1D
Entries 81
Mean 0.0003219
Std Dev 0.3616

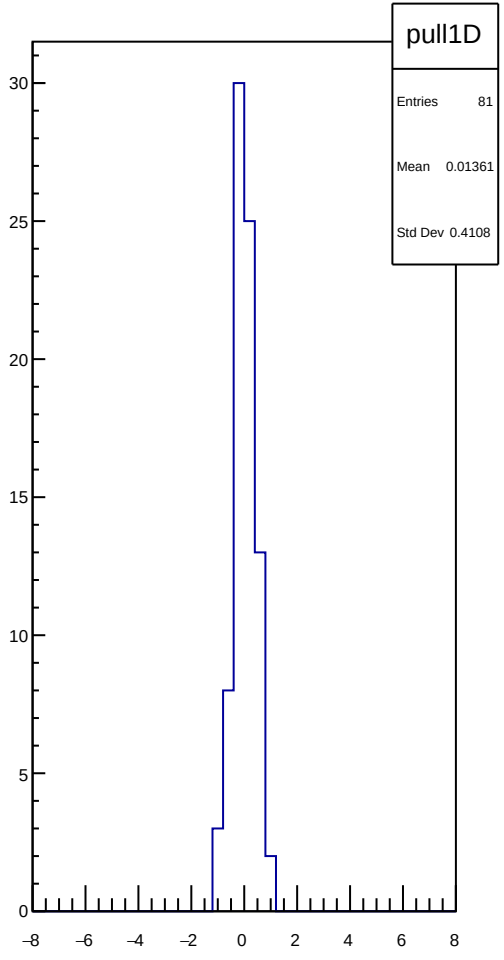

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.036 / 80
p0 −13.73 ± 3.359
pull
Entries 81
Mean −241.7
Std Dev 0

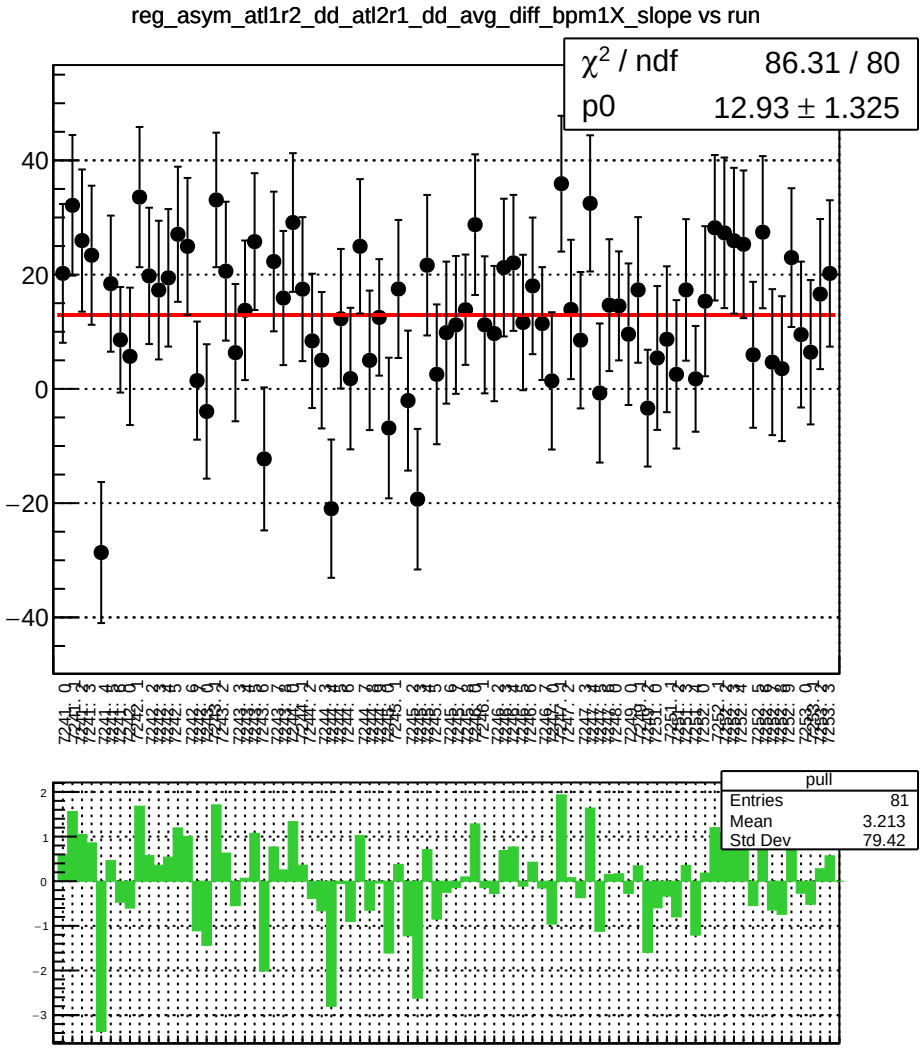

pull1D
Entries 81
Mean −0.005387
Std Dev 0.3149

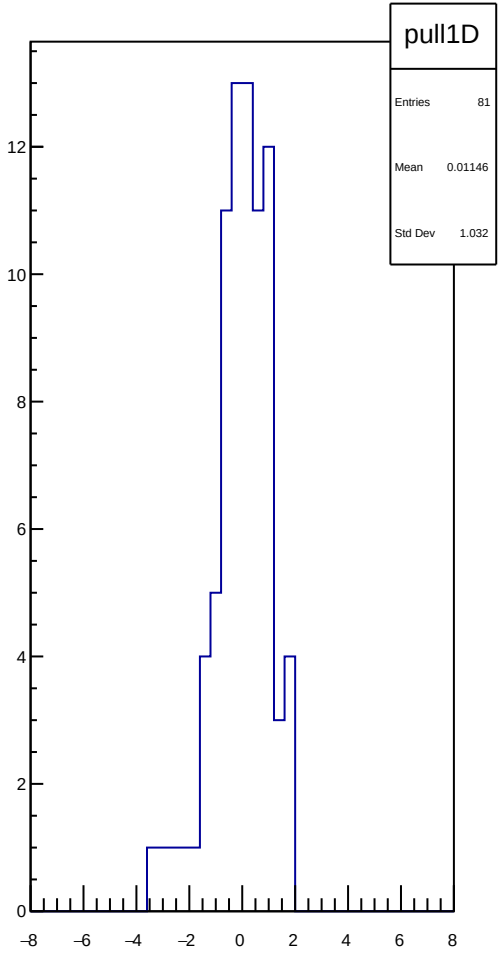

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.15 / 80
p0 −243.9 ± 4.586
pull
Entries 81
Mean −9008
Std Dev 0
pull1D
Entries 81
Mean −0.0002674
Std Dev 0.371

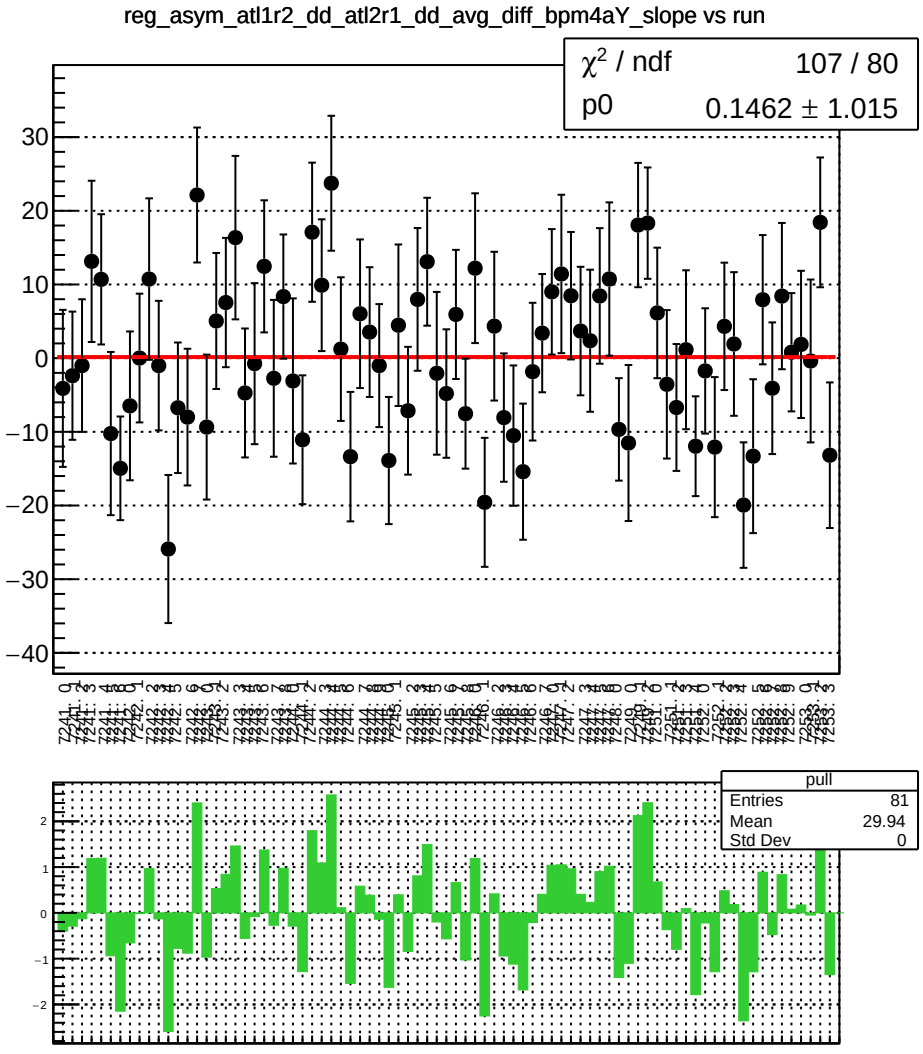

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.739 / 80
p0 −55.08 ± 3.612
pull
Entries 81
Mean −335
Std Dev 0
pull1D
Entries 81
Mean 0.002813
Std Dev 0.3091

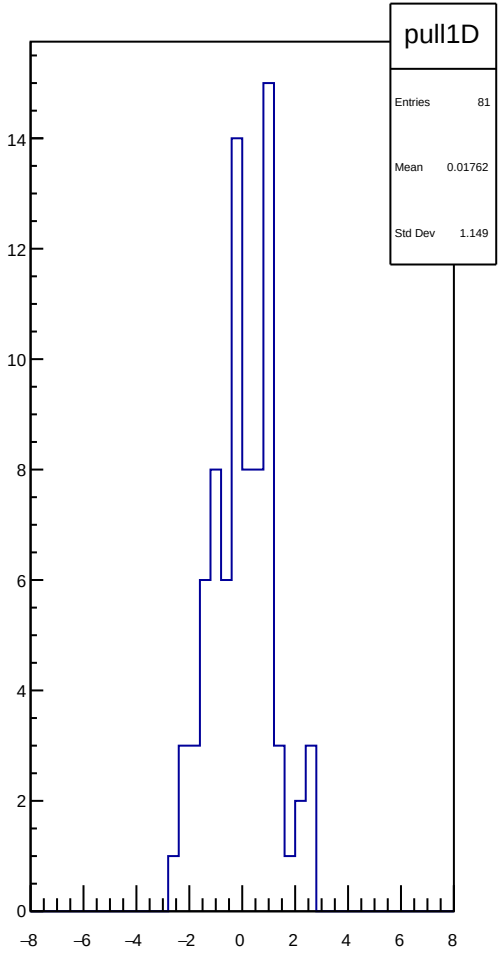

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 13.68 / 80
p0 114.4 ± 0.1614
117
116
115
114
113
112
111
pull
Entries 81
Mean −281.4
Std Dev 0
1
0.5
0
−0.5
−1

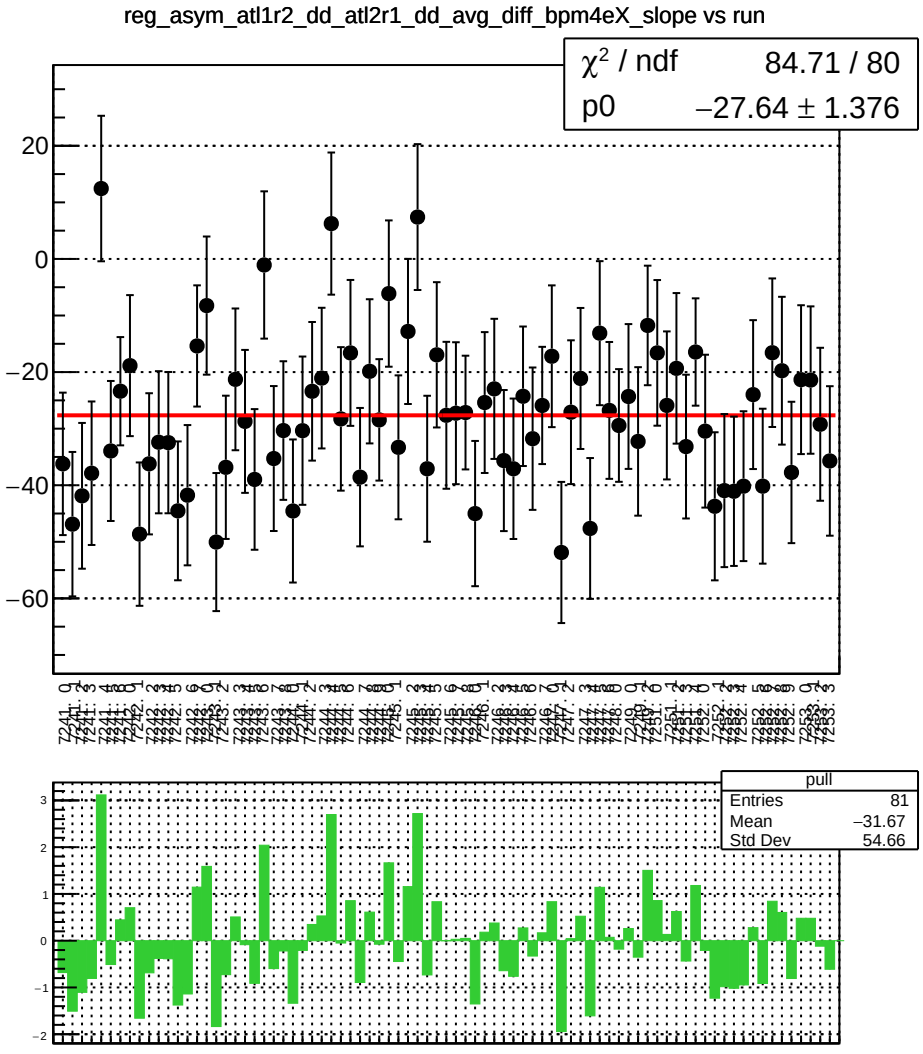

pull1D
Entries 81
Mean 0.01361
Std Dev 0.4108
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

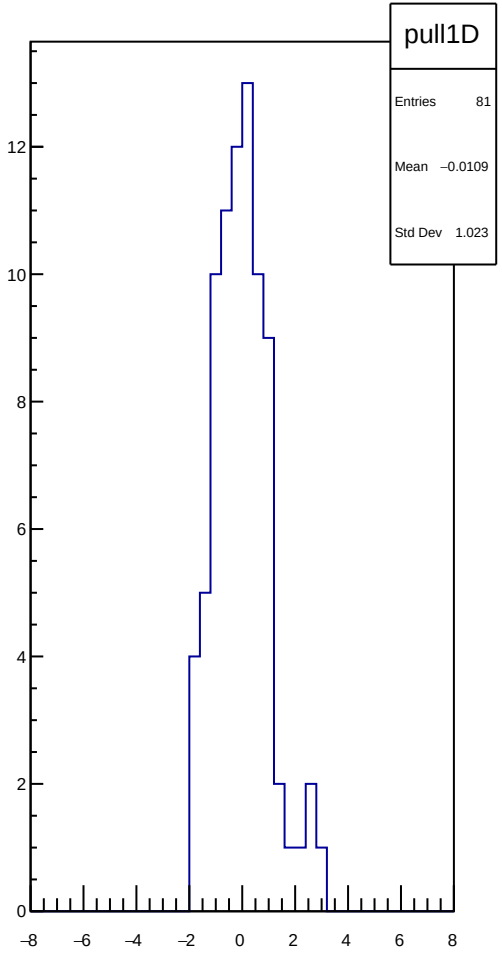

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 86.31 / 80
p0 12.93 ± 1.325
pull
Entries 81
Mean 3.213
Std Dev 79.42

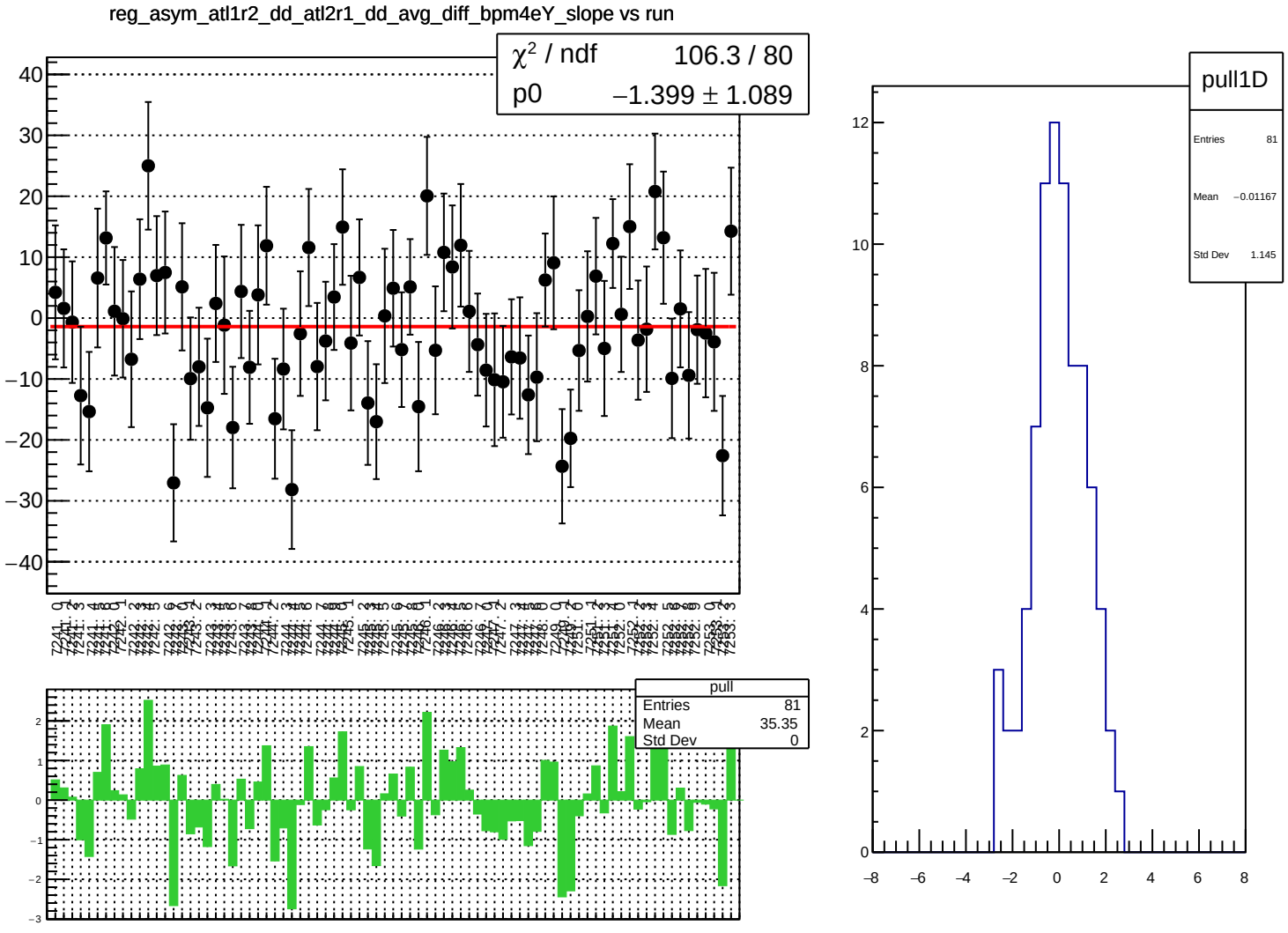

pull1D
Entries 81
Mean 0.01146
Std Dev 1.032

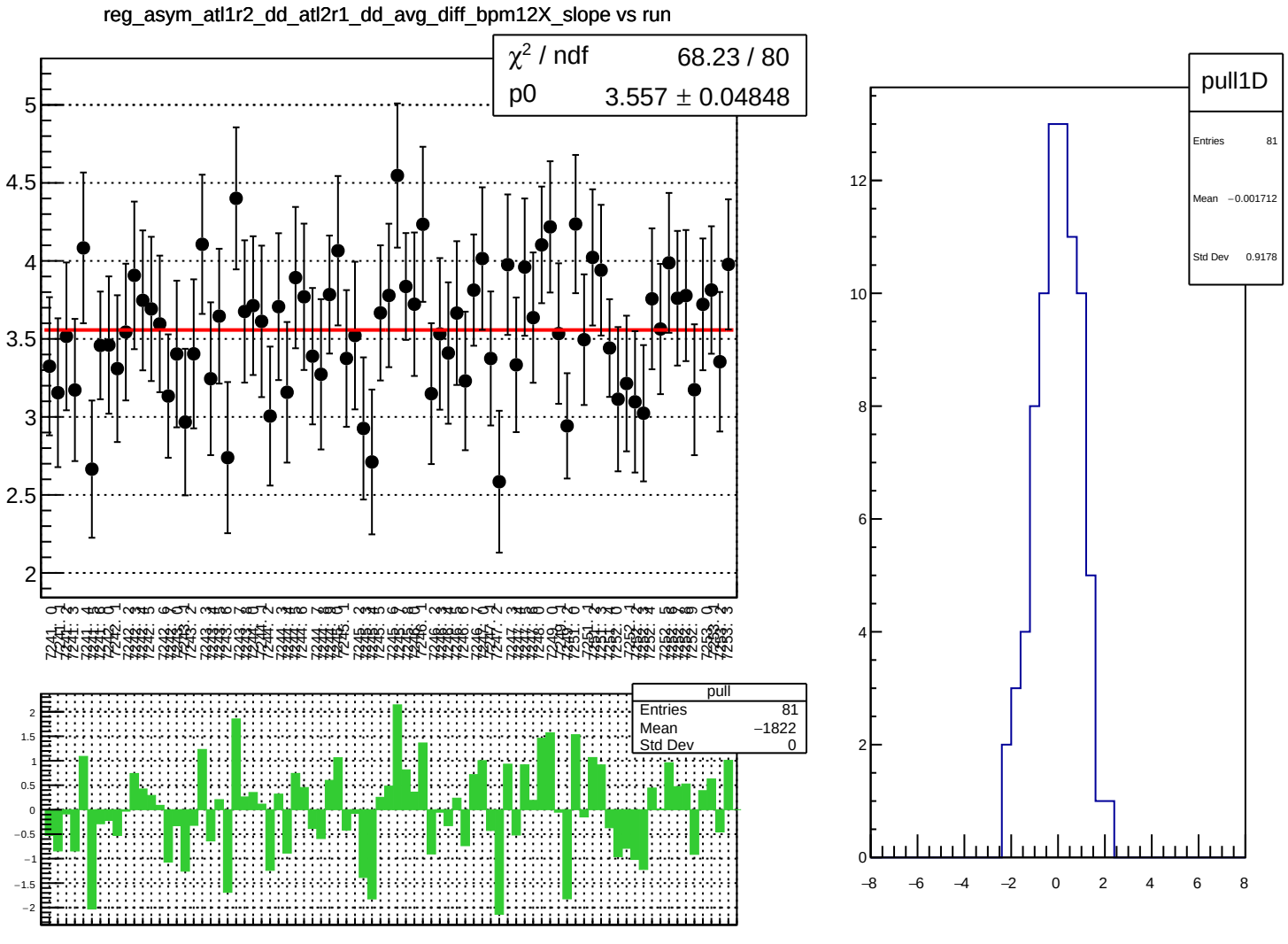

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 107 / 80
p0 0.1462 ± 1.015
pull
Entries 81
Mean 29.94
Std Dev 0

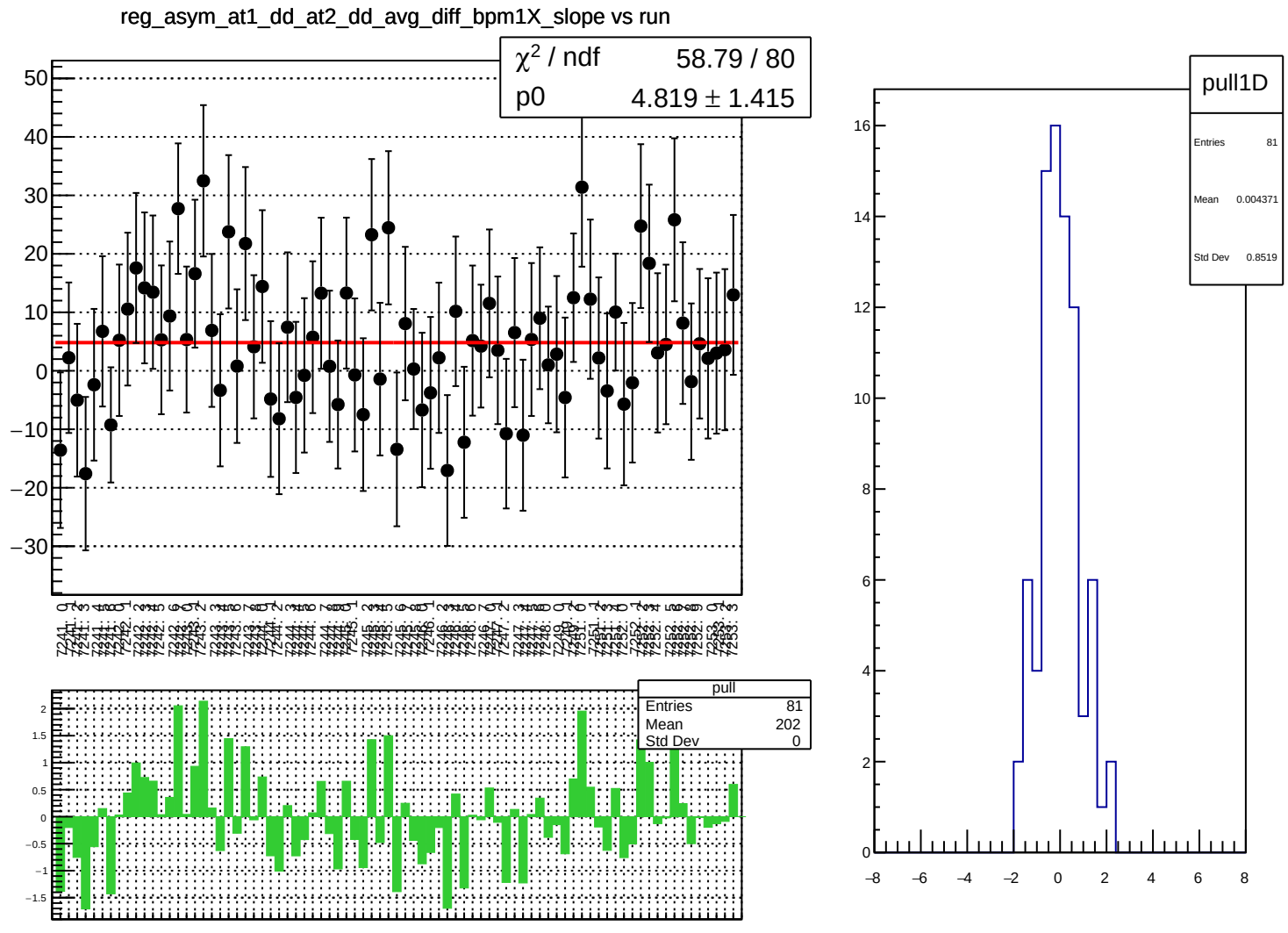

pull1D
Entries 81
Mean 0.01762
Std Dev 1.149

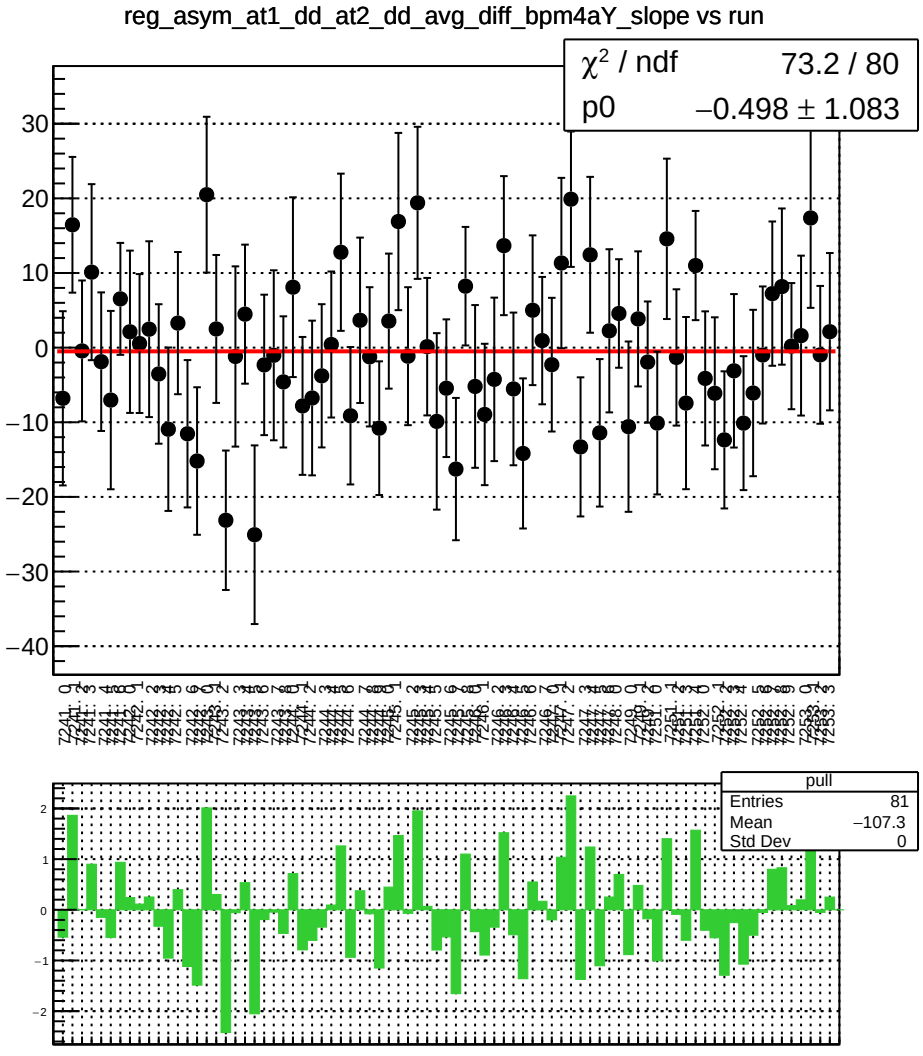

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 84.71 / 80
p0 −27.64 ± 1.376
pull
Entries 81
Mean −31.67
Std Dev 54.66

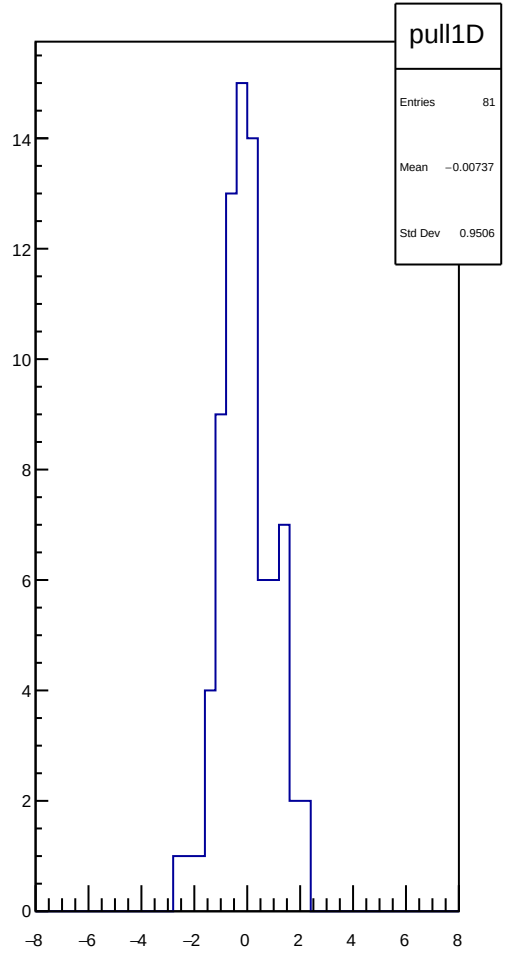

pull1D
Entries 81
Mean −0.0109
Std Dev 1.023

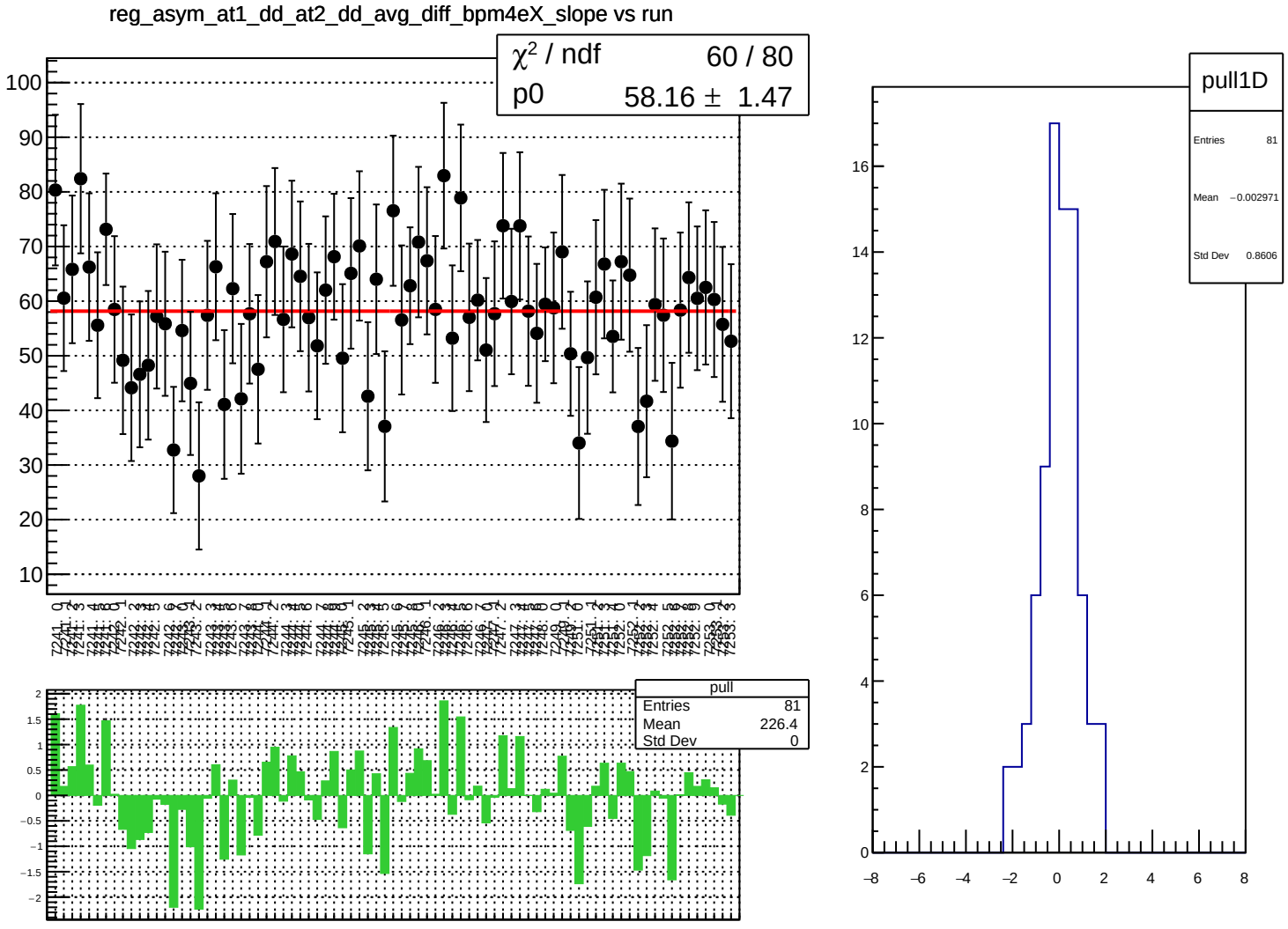

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 106.3 / 80
p0 −1.399 ± 1.089
pull
Entries 81
Mean 35.35
Std Dev 0
pull1D
Entries 81
Mean −0.01167
Std Dev 1.145

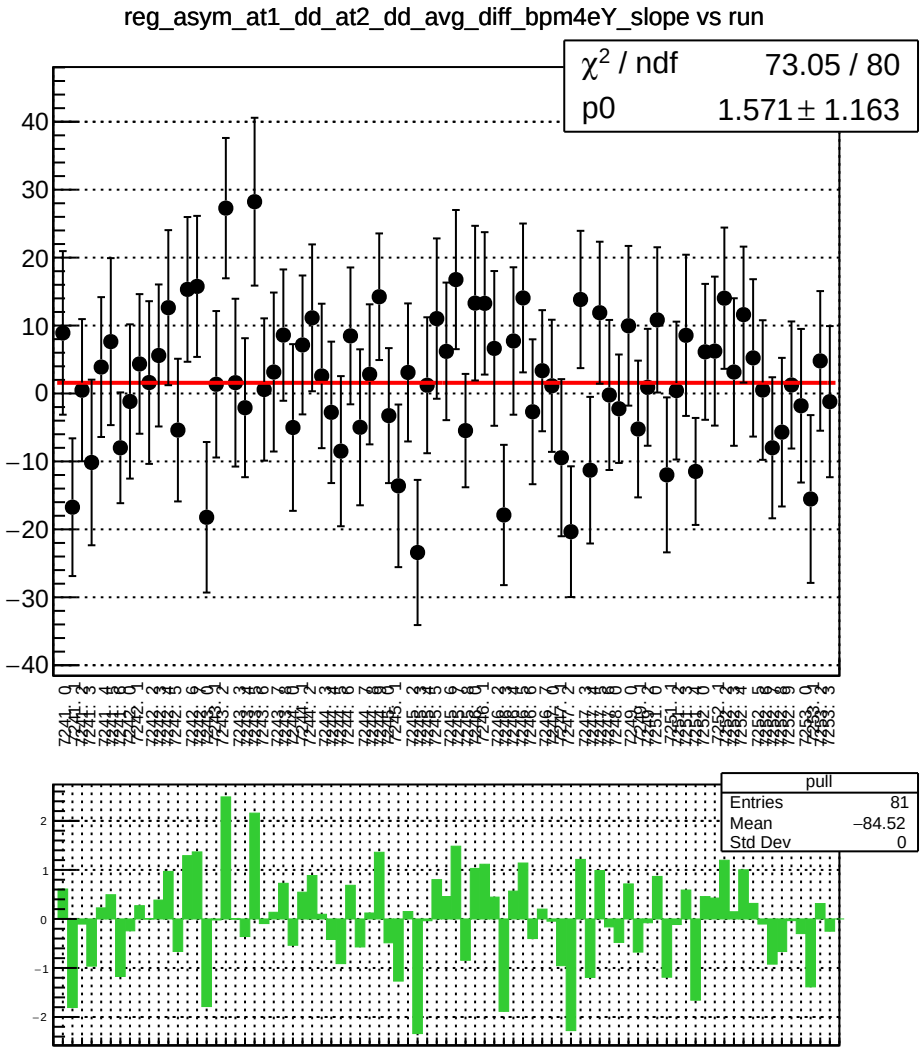

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 68.23 / 80
p0 3.557 ± 0.04848
pull
Entries 81
Mean −1822
Std Dev 0
pull1D
Entries 81
Mean −0.001712
Std Dev 0.9178

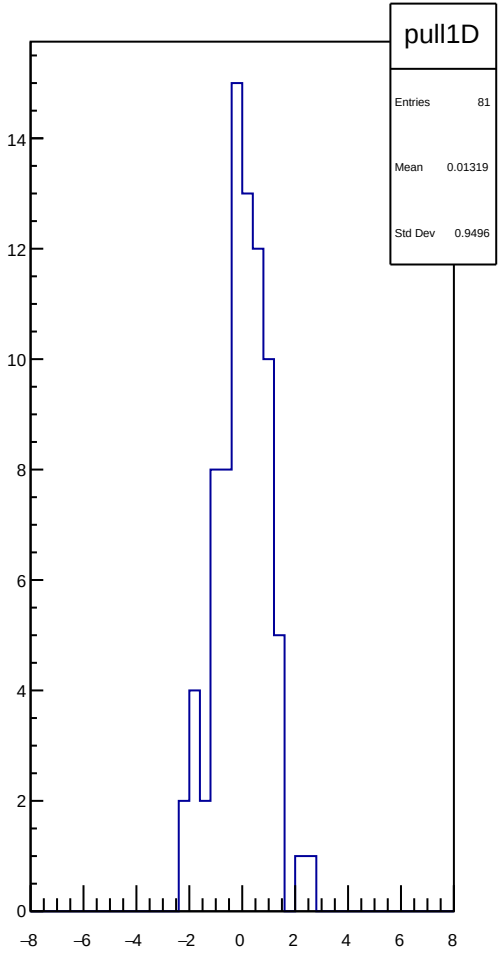

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 58.79 / 80
p0 4.819 ± 1.415
pull
Entries 81
Mean 202
Std Dev 0
pull1D
Entries 81
Mean 0.004371
Std Dev 0.8519

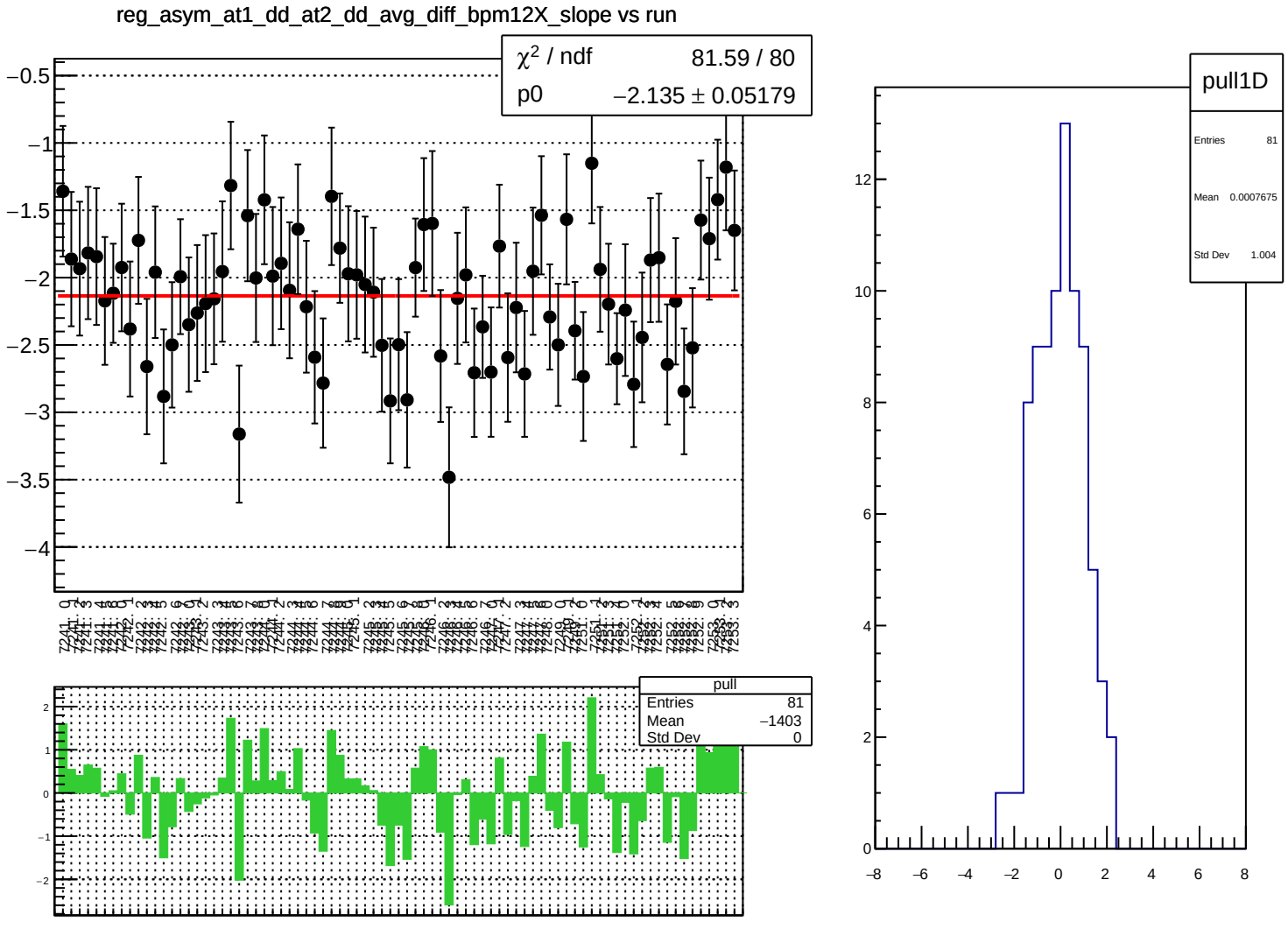

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 73.2 / 80
p0 −0.498 ± 1.083
pull
Entries 81
Mean −107.3
Std Dev 0

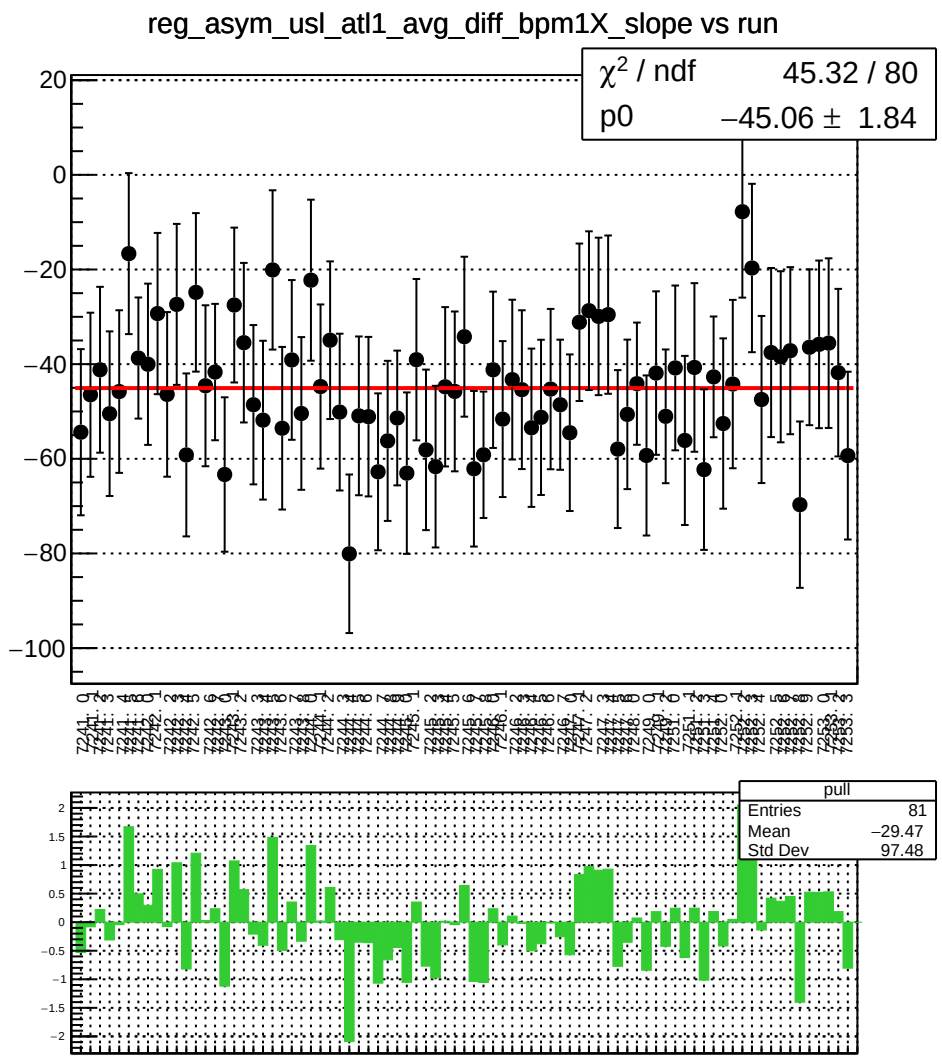

pull1D
Entries 81
Mean −0.00737
Std Dev 0.9506

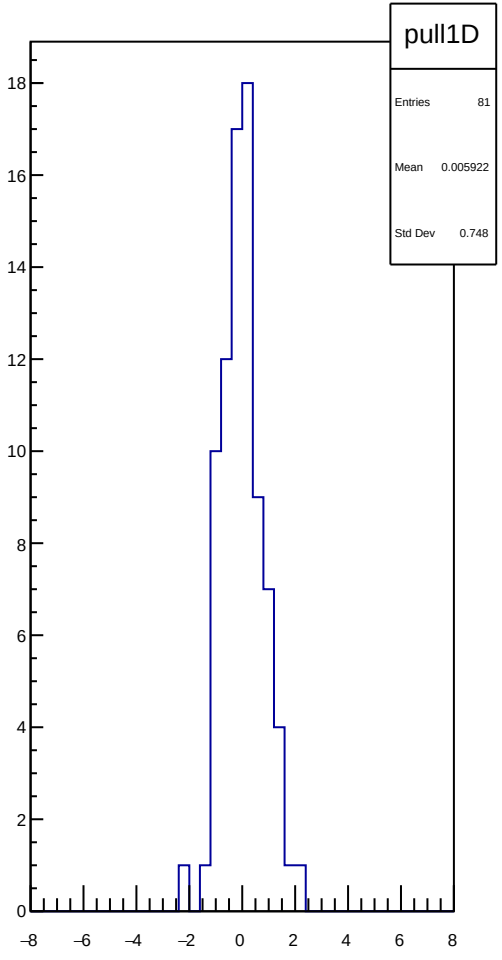

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 60 / 80
p0 58.16 ± 1.47
pull
Entries 81
Mean 226.4
Std Dev 0
pull1D
Entries 81
Mean −0.002971
Std Dev 0.8606

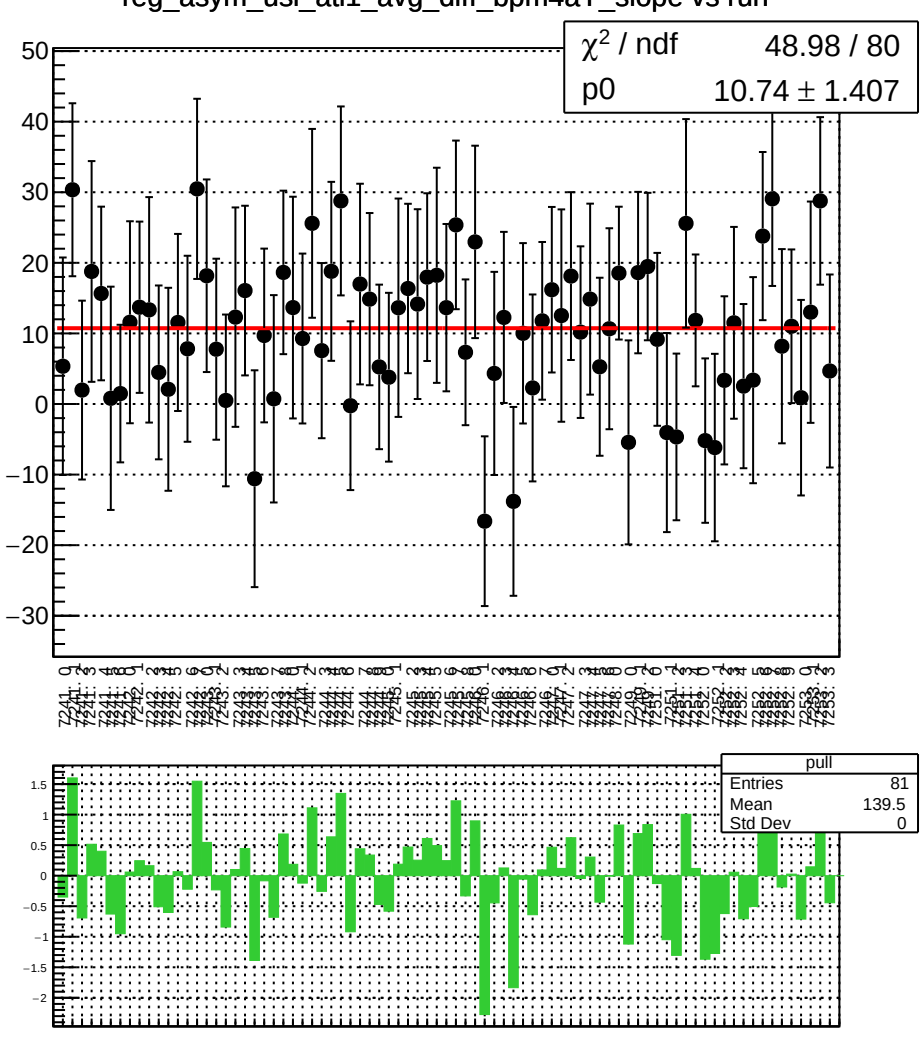

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 73.05 / 80
p0 1.571 ± 1.163
pull
Entries 81
Mean −84.52
Std Dev 0

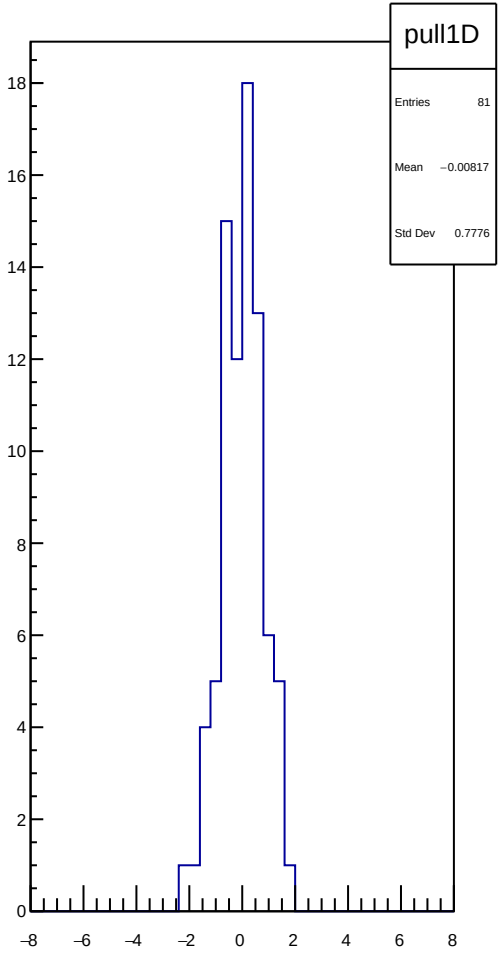

pull1D
Entries 81
Mean 0.01319
Std Dev 0.9496

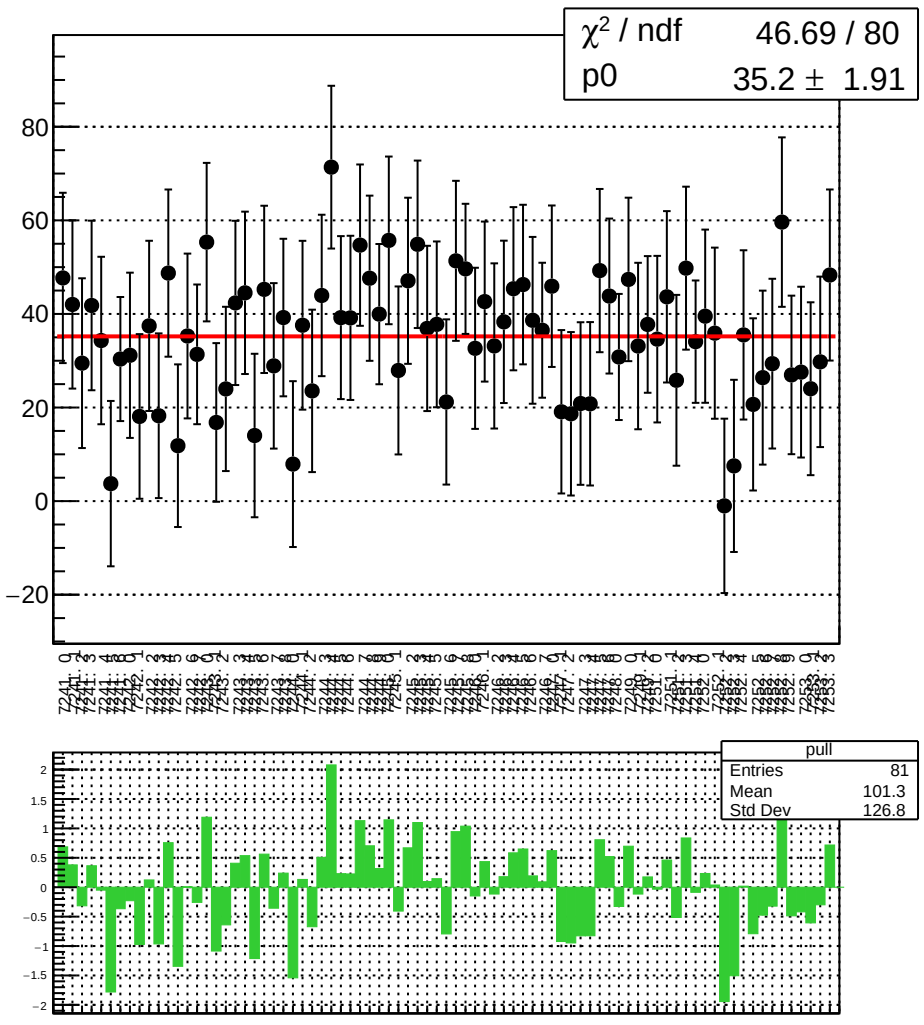

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 81.59 / 80
p0 −2.135 ± 0.05179
pull
Entries 81
Mean −1403
Std Dev 0
pull1D
Entries 81
Mean 0.0007675
Std Dev 1.004

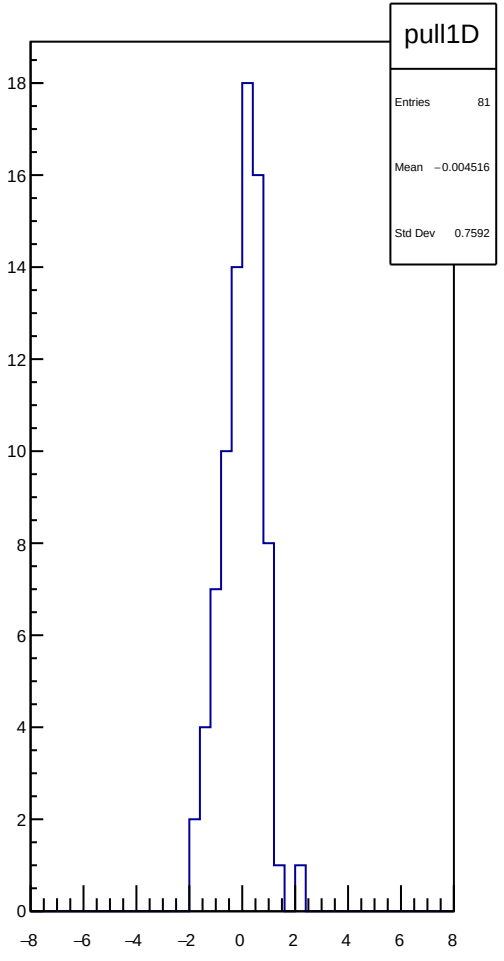

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 45.32 / 80
p0 −45.06 ± 1.84
pull
Entries 81
Mean −29.47
Std Dev 97.48

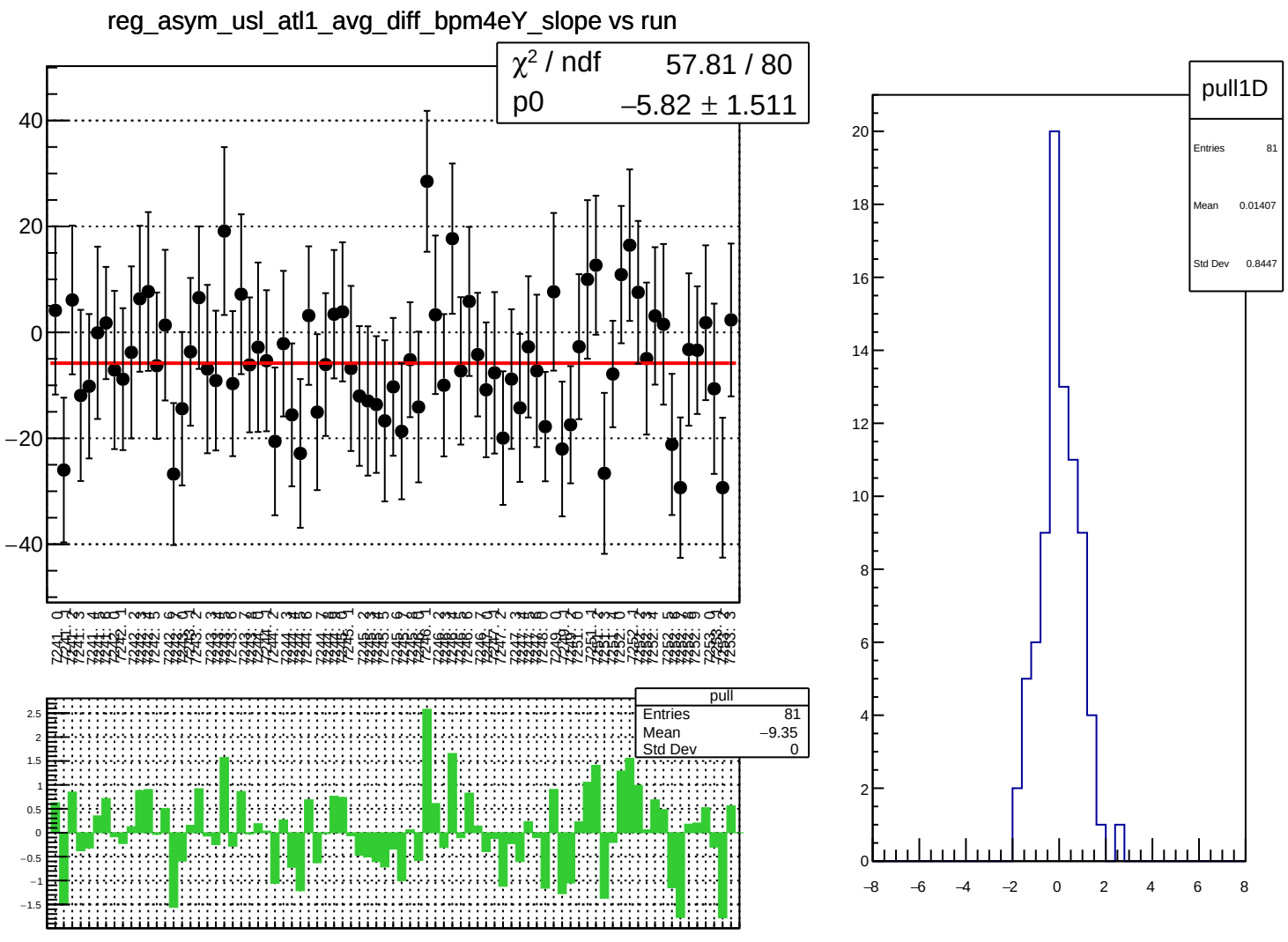

pull1D
Entries 81
Mean 0.005922
Std Dev 0.748

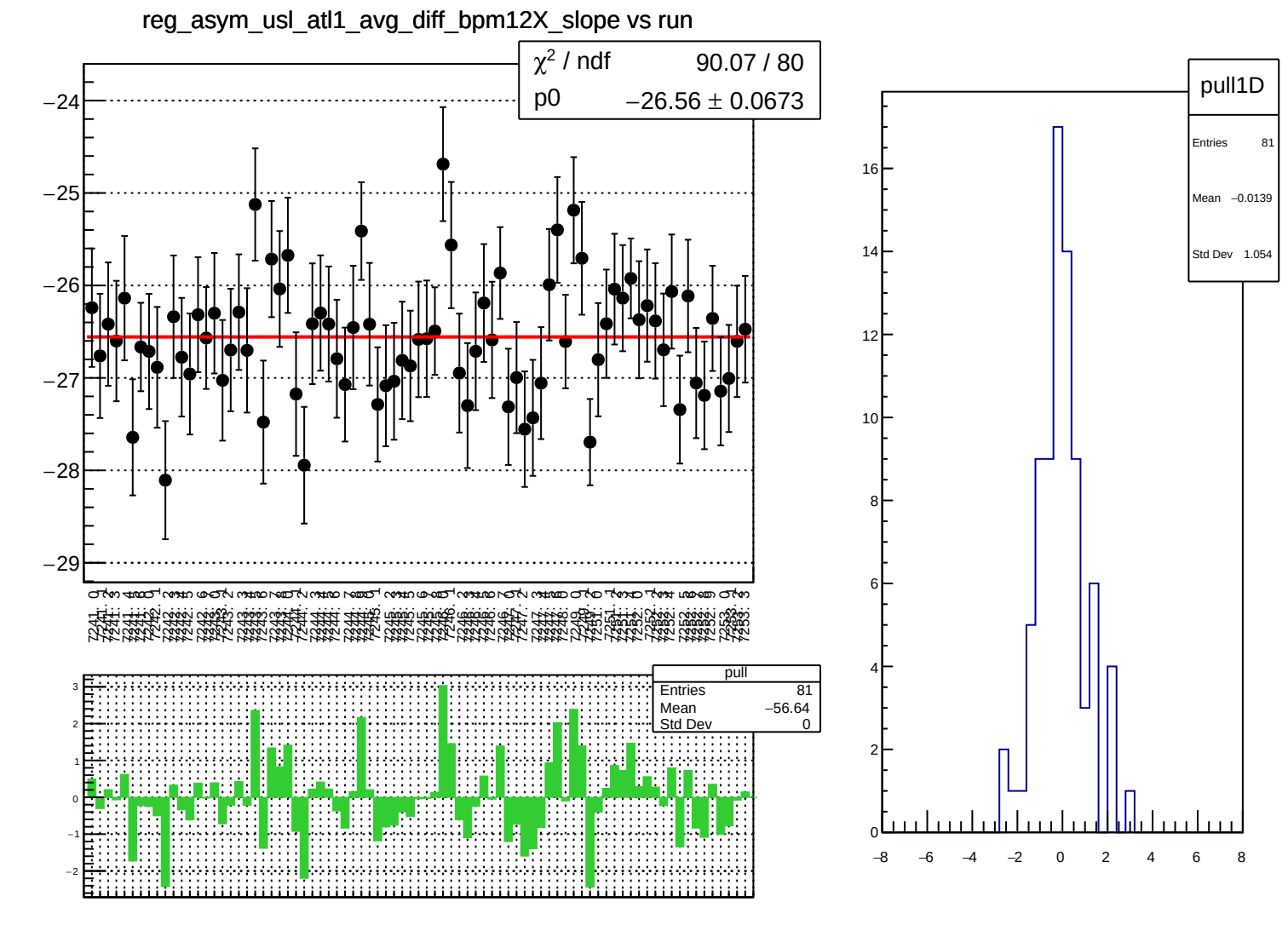

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 48.98 / 80
p0 10.74 ± 1.407
pull
Entries 81
Mean 139.5
Std Dev 0

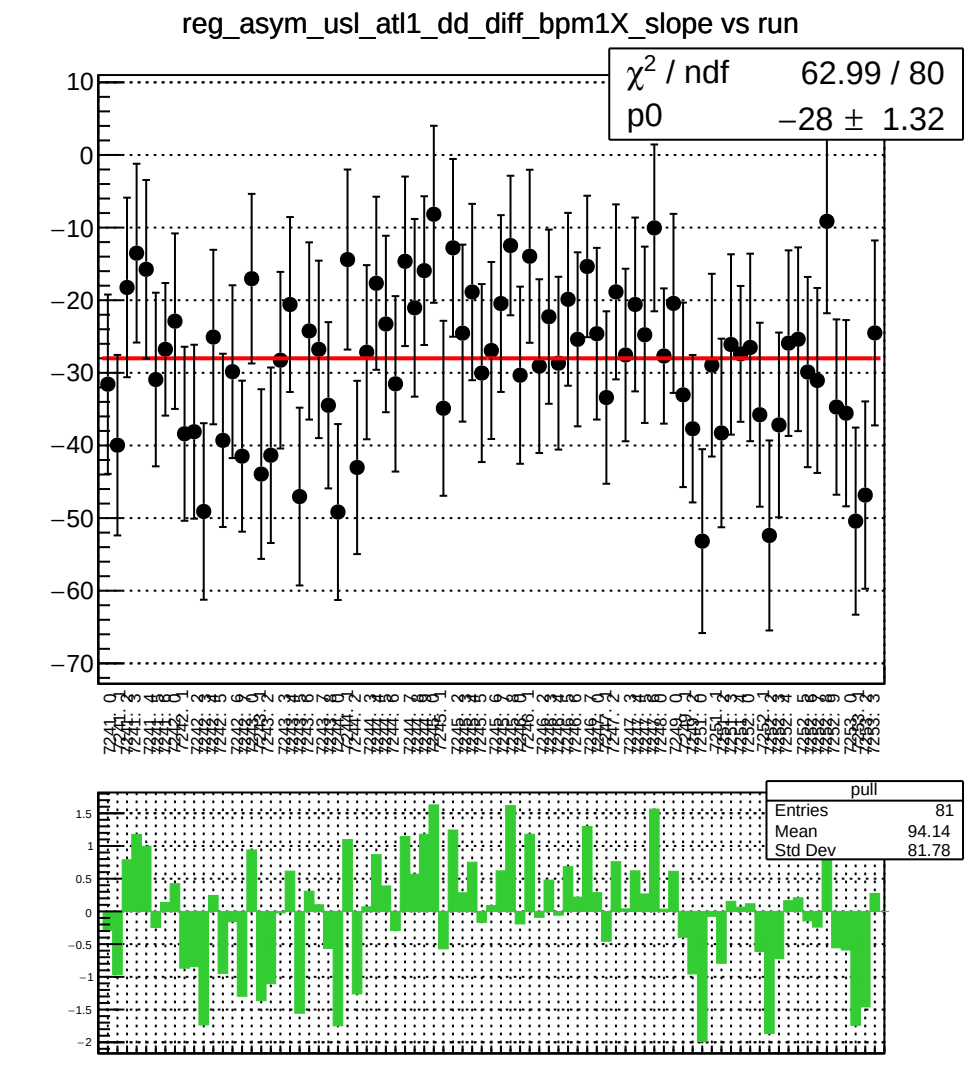

pull1D
Entries 81
Mean −0.00817
Std Dev 0.7776

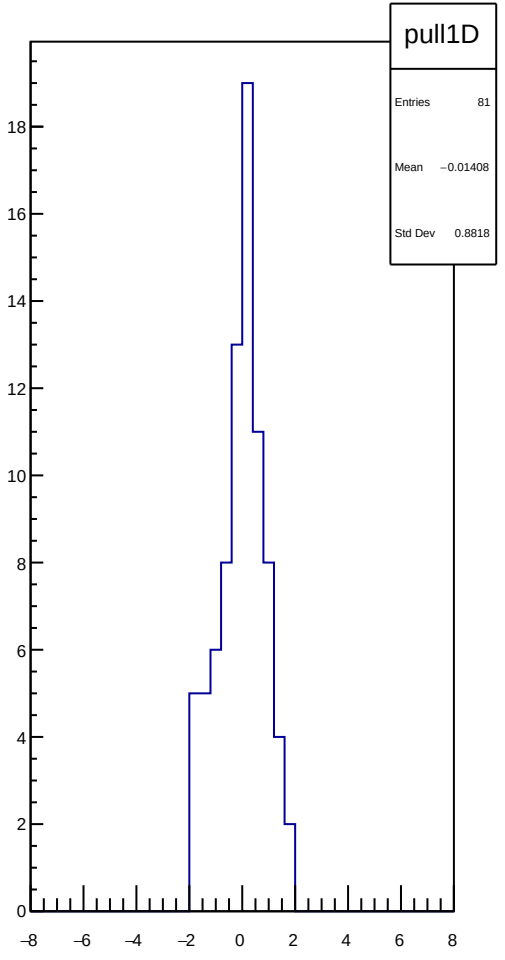

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 46.69 / 80
p0 35.2 ± 1.91
pull
Entries 81
Mean 101.3
Std Dev 126.8

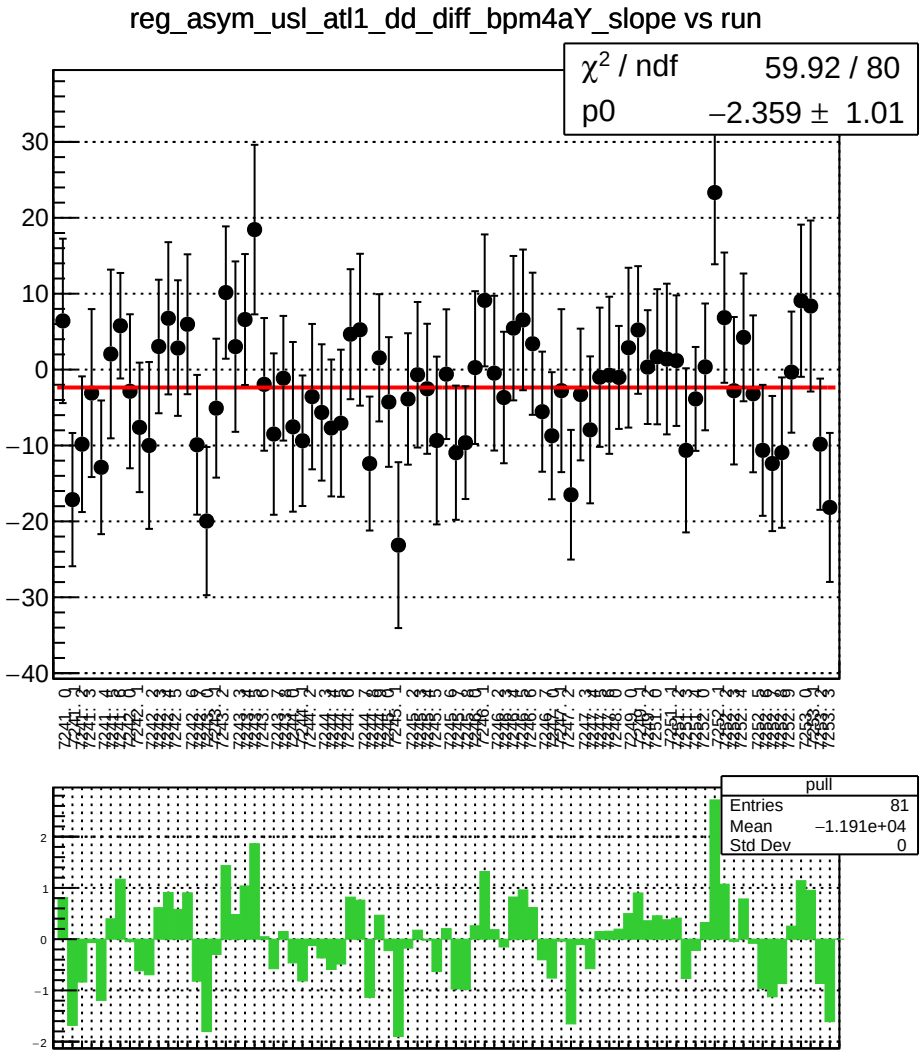

pull1D
Entries 81
Mean −0.004516
Std Dev 0.7592

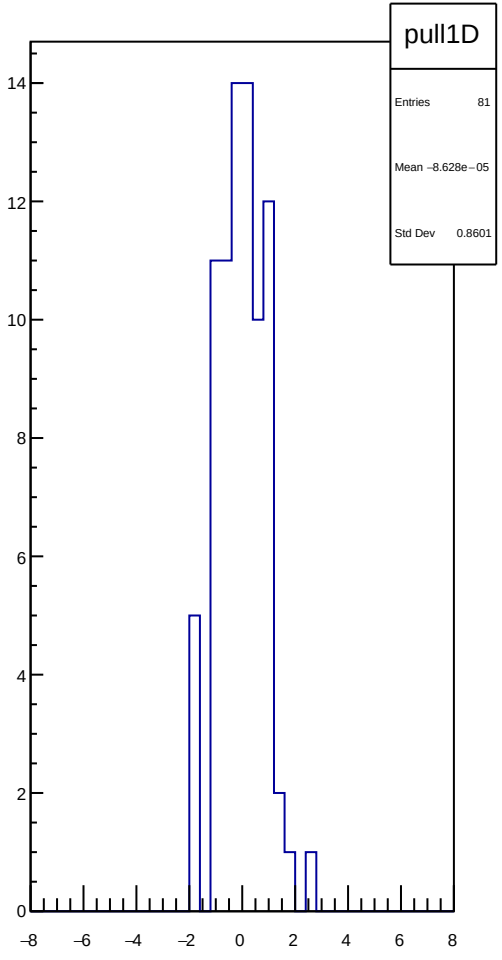

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 57.81 / 80
p0 −5.82 ± 1.511
pull
Entries 81
Mean −9.35
Std Dev 0
pull1D
Entries 81
Mean 0.01407
Std Dev 0.8447

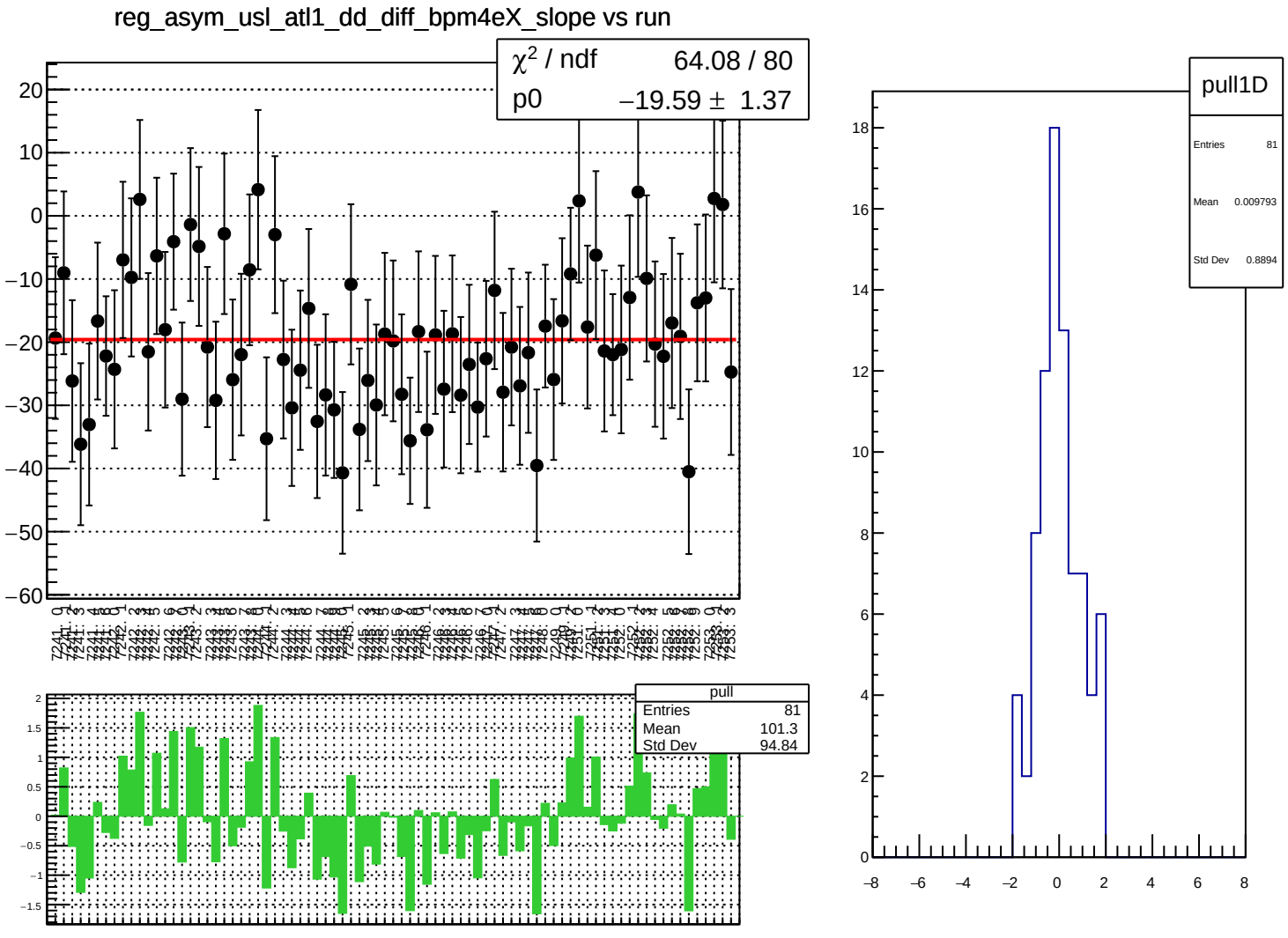

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 90.07 / 80
p0 −26.56 ± 0.0673
pull
Entries 81
Mean −56.64
Std Dev 0
pull1D
Entries 81
Mean −0.0139
Std Dev 1.054

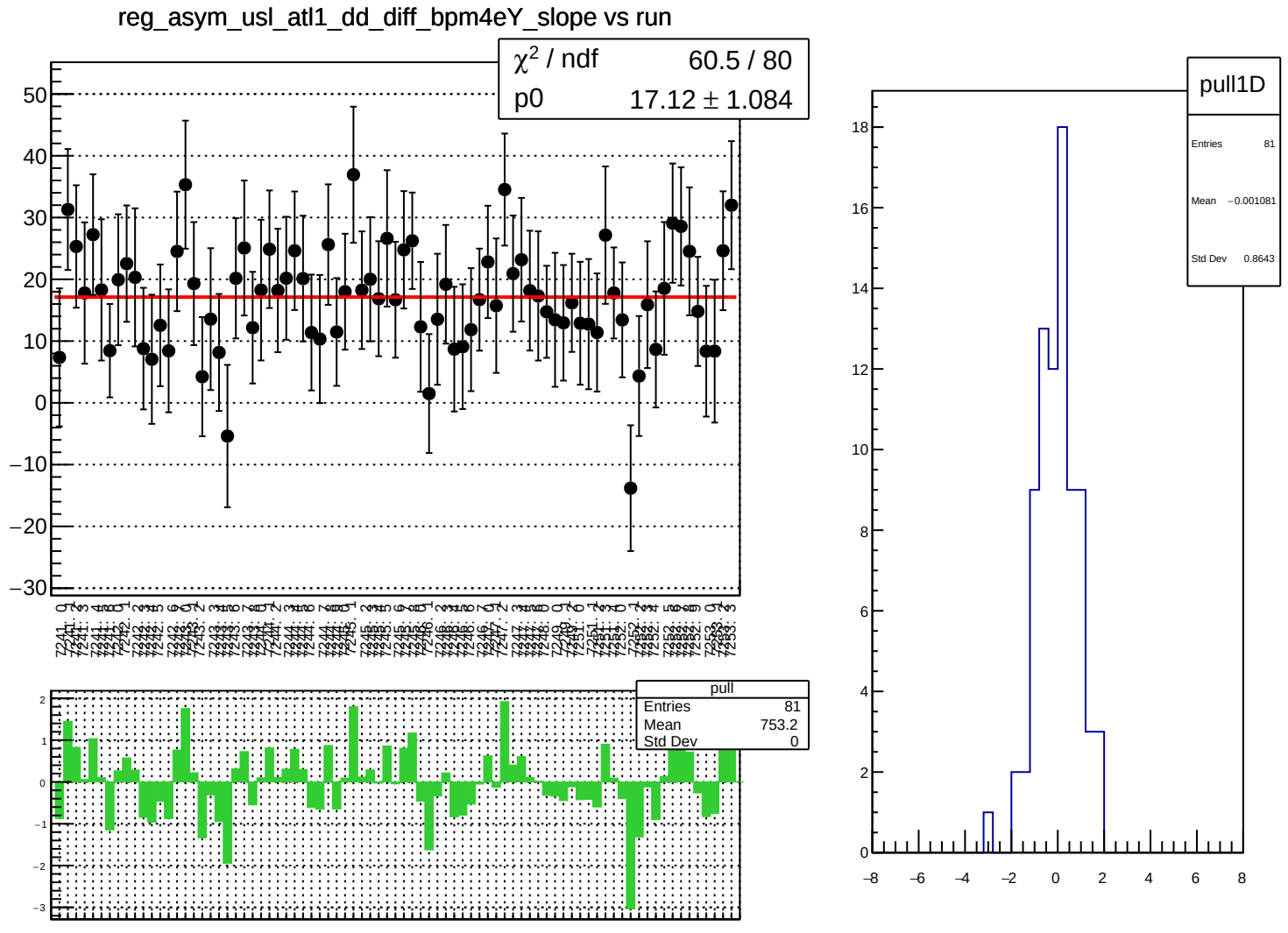

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 62.99 / 80
p0 −28 ± 1.32
pull
Entries 81
Mean 94.14
Std Dev 81.78

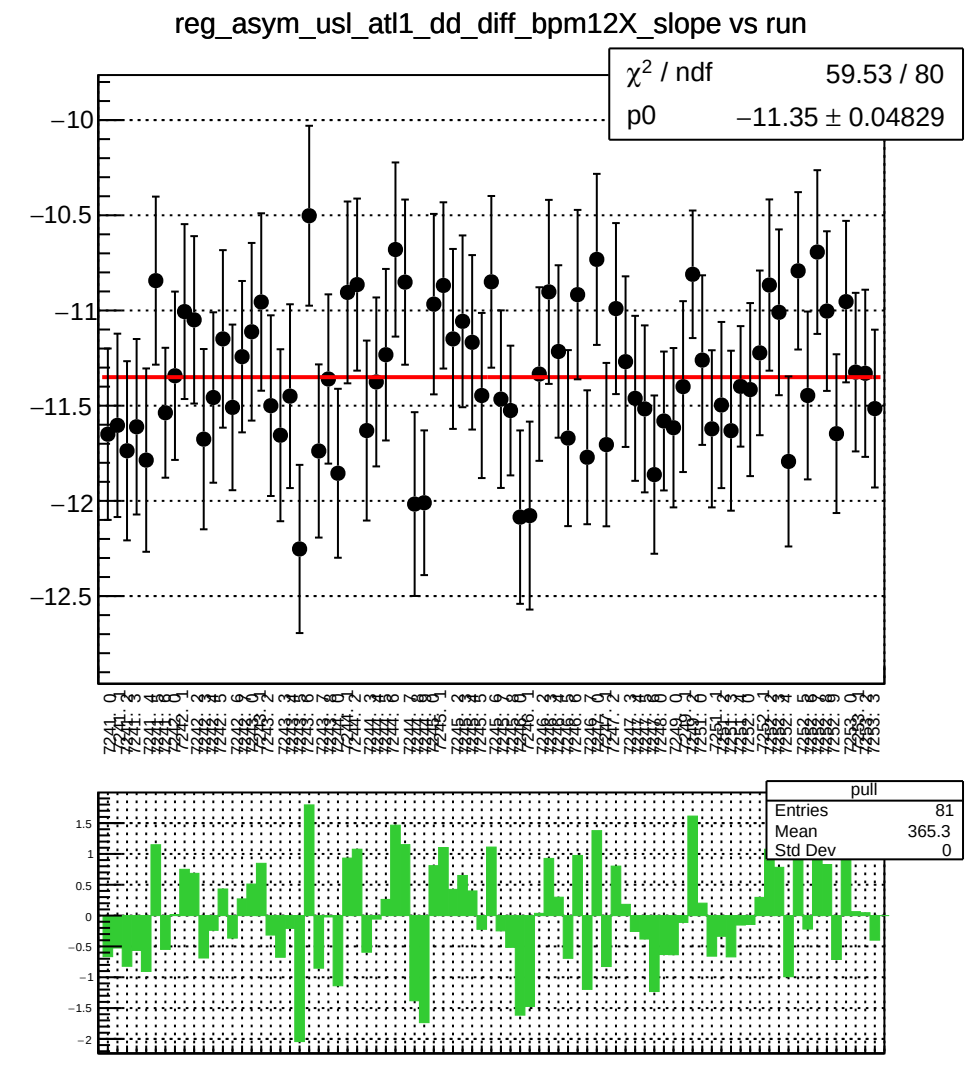

pull1D
Entries 81
Mean −0.01408
Std Dev 0.8818

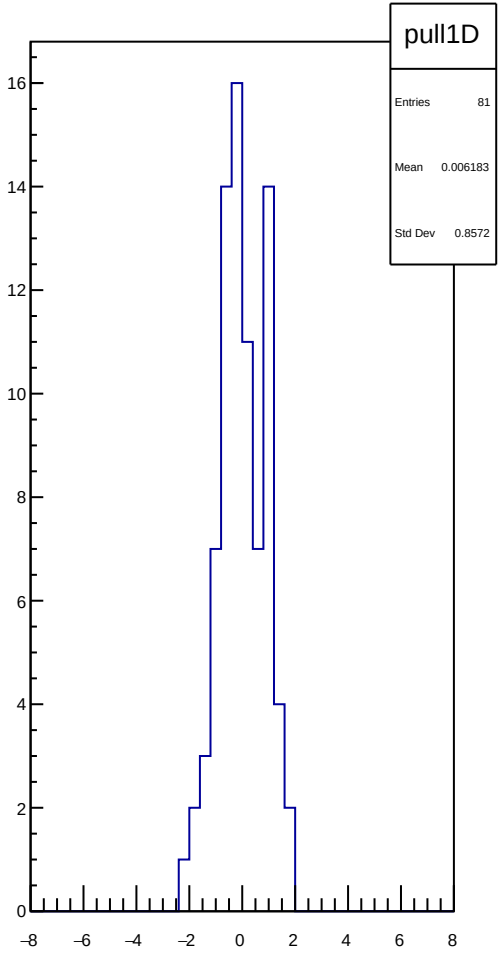

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 59.92 / 80
p0 −2.359 ± 1.01
pull
Entries 81
Mean −1.191e+04
Std Dev 0

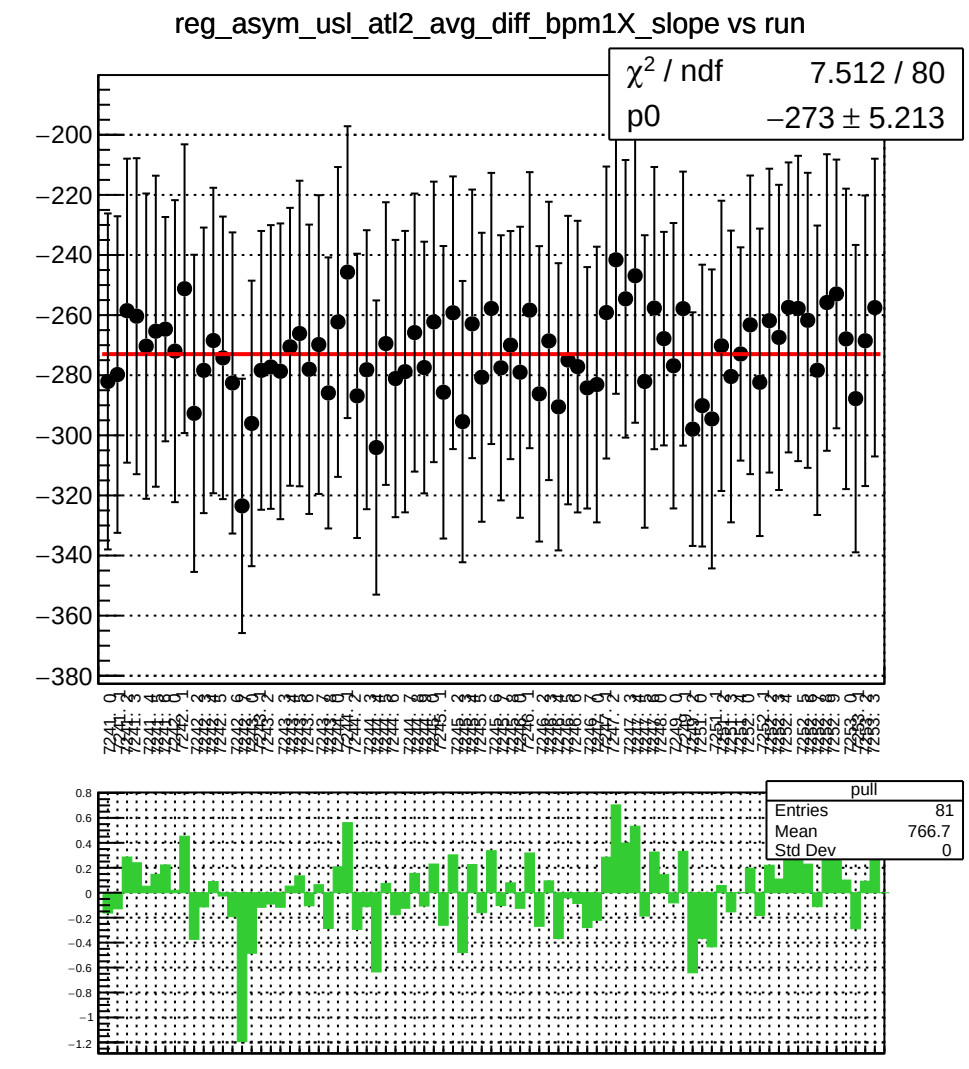

pull1D
Entries 81
Mean −8.628e−05
Std Dev 0.8601

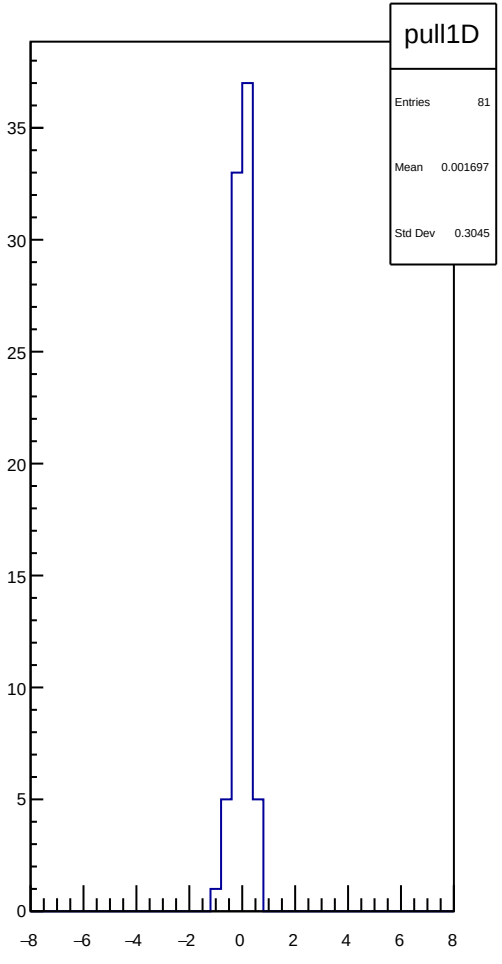

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 64.08 / 80
p0 −19.59 ± 1.37
pull
Entries 81
Mean 101.3
Std Dev 94.84
pull1D
Entries 81
Mean 0.009793
Std Dev 0.8894

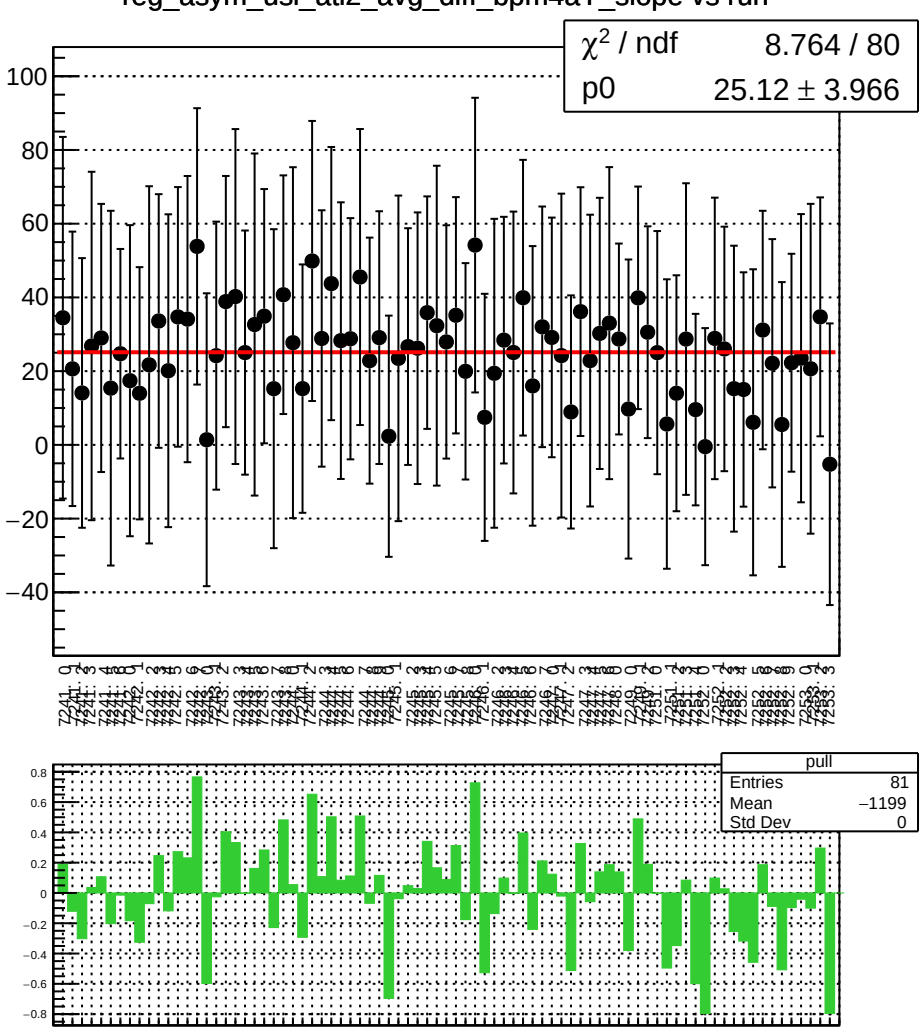

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 60.5 / 80
p0 17.12 ± 1.084
pull
Entries 81
Mean 753.2
Std Dev 0
pull1D
Entries 81
Mean −0.001081
Std Dev 0.8643

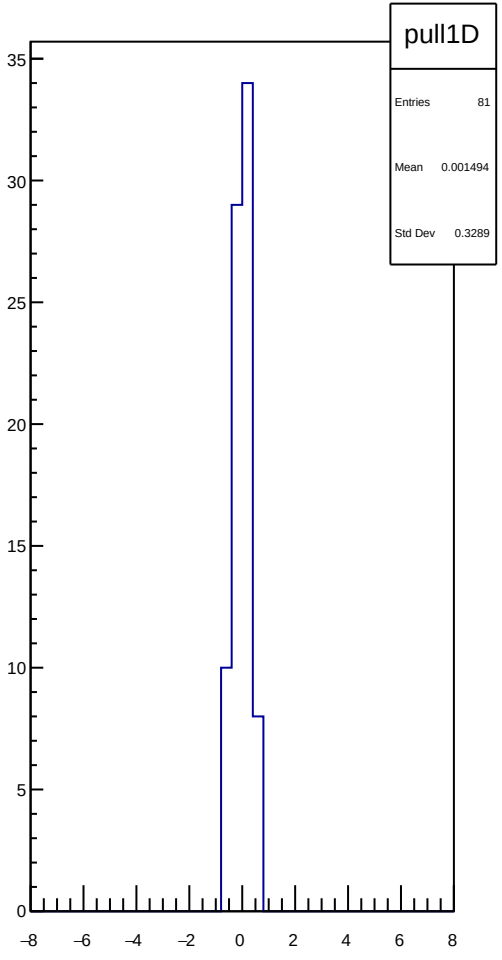

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 59.53 / 80
p0 −11.35 ± 0.04829
−10
−10.5
−11
−11.5
−12
−12.5
pull
Entries 81
Mean 365.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

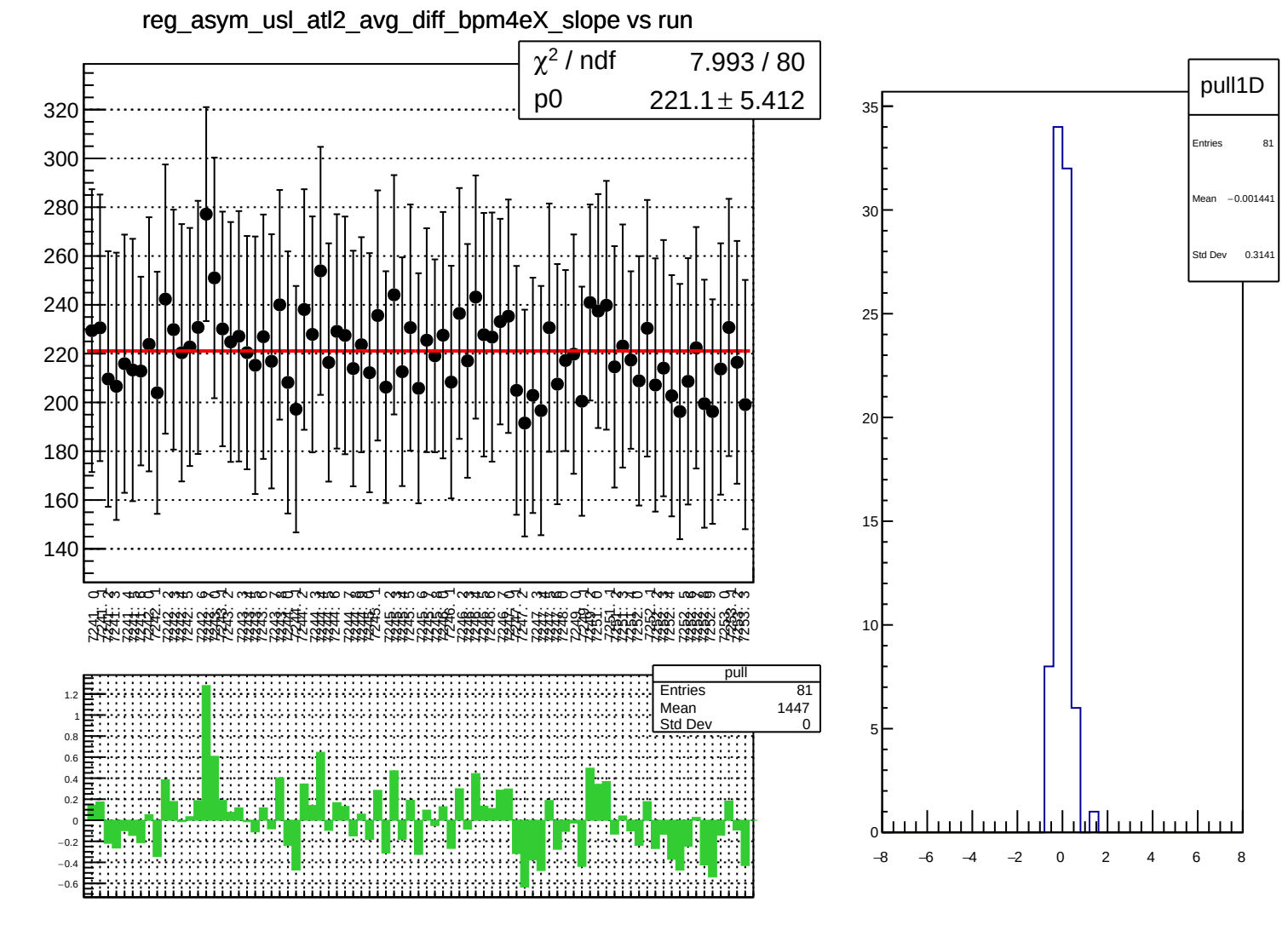

pull1D
Entries 81
Mean 0.006183
Std Dev 0.8572
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

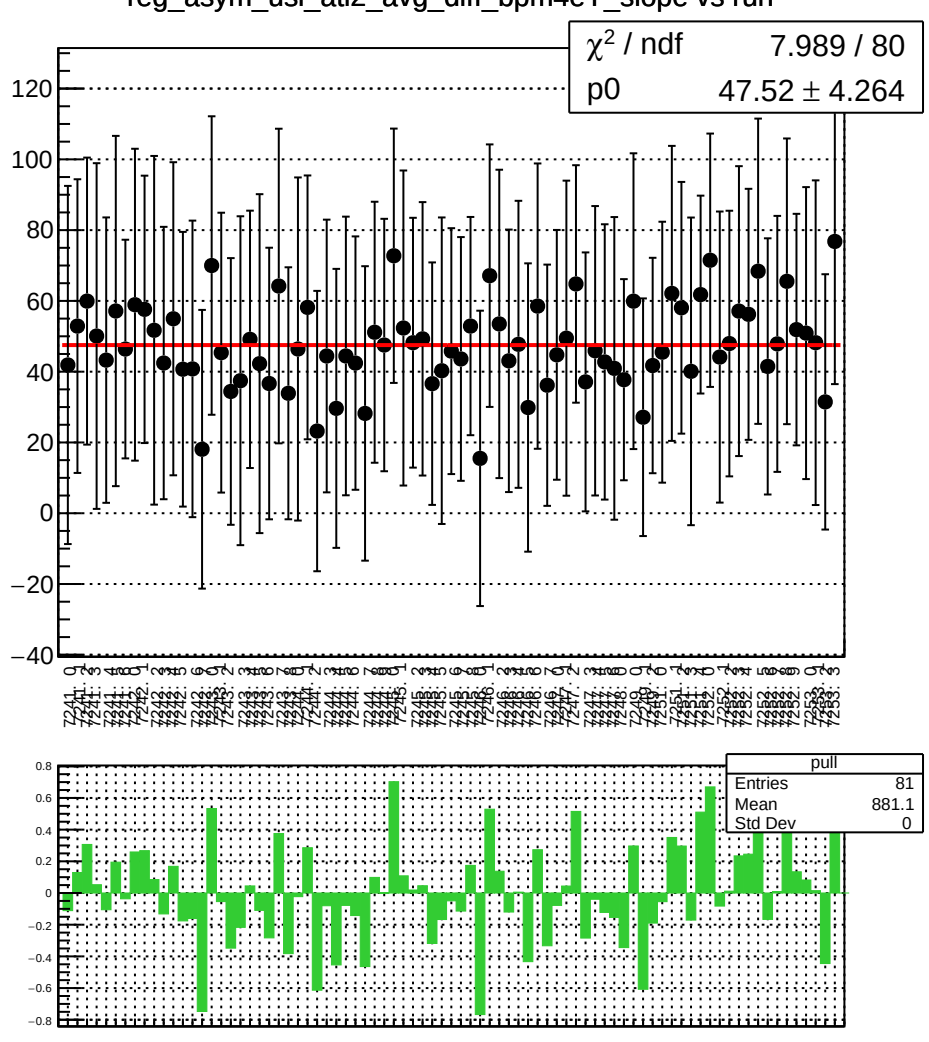

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 7.512 / 80
p0 −273 ± 5.213
pull
Entries 81
Mean 766.7
Std Dev 0

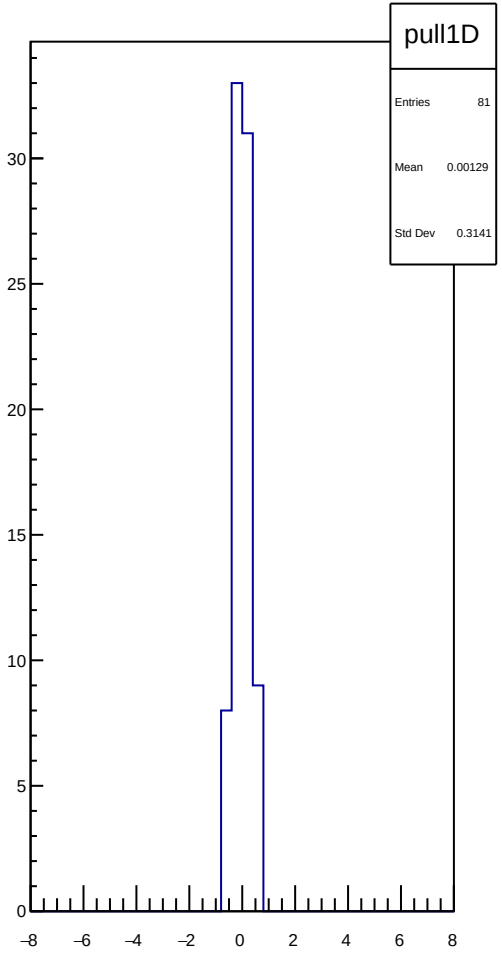

pull1D
Entries 81
Mean 0.001697
Std Dev 0.3045

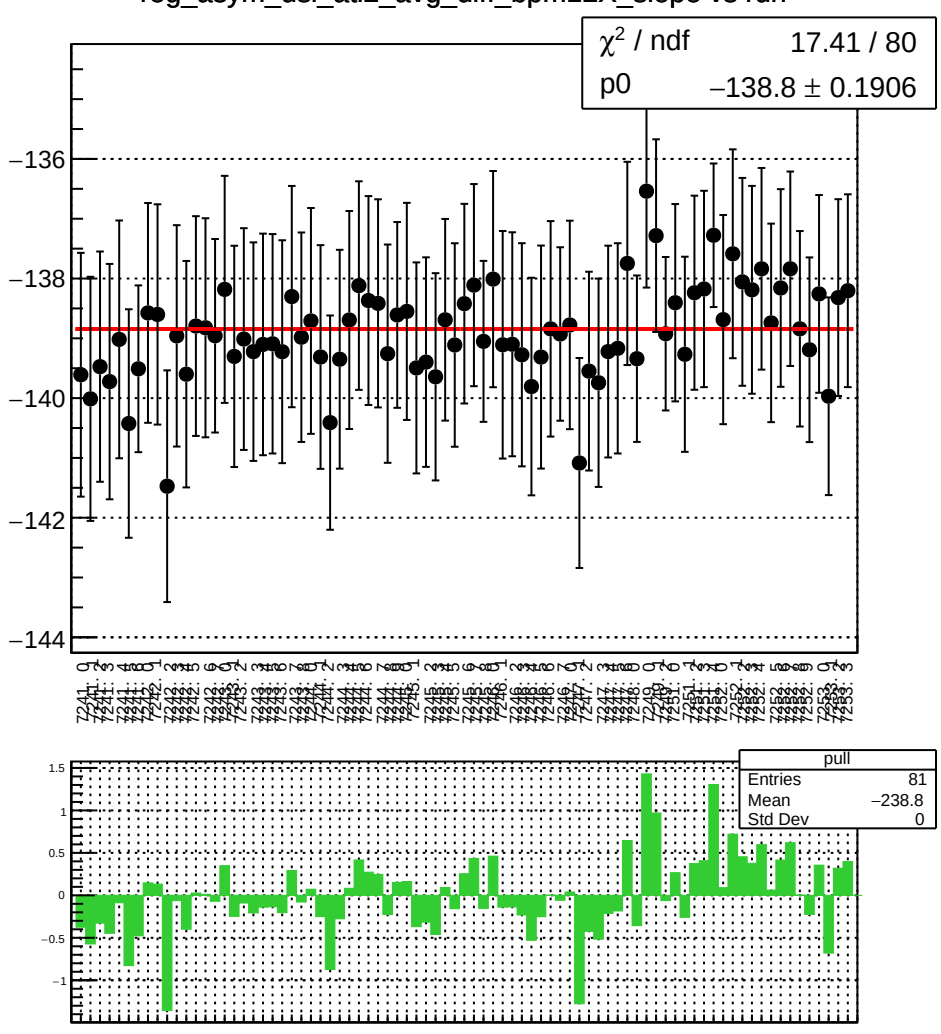

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.764 / 80
p0 25.12 ± 3.966
pull
Entries 81
Mean −1199
Std Dev 0

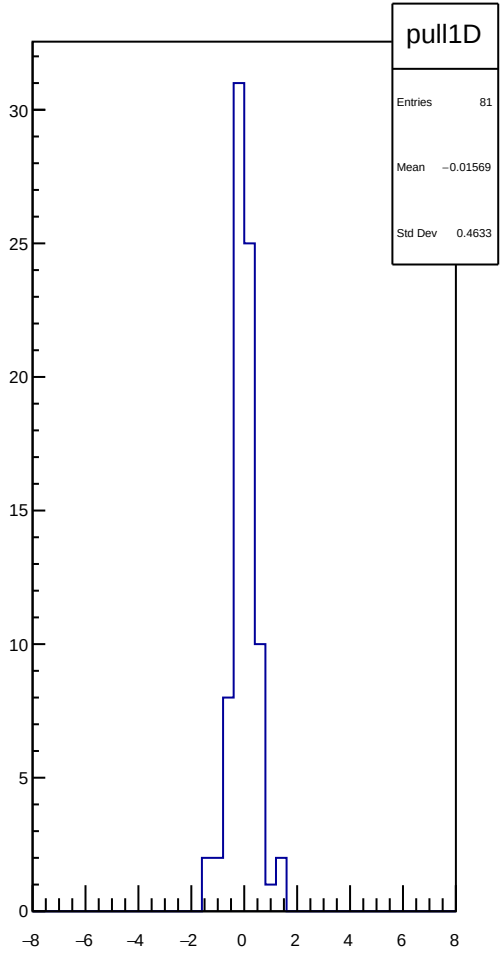

pull1D
Entries 81
Mean 0.001494
Std Dev 0.3289

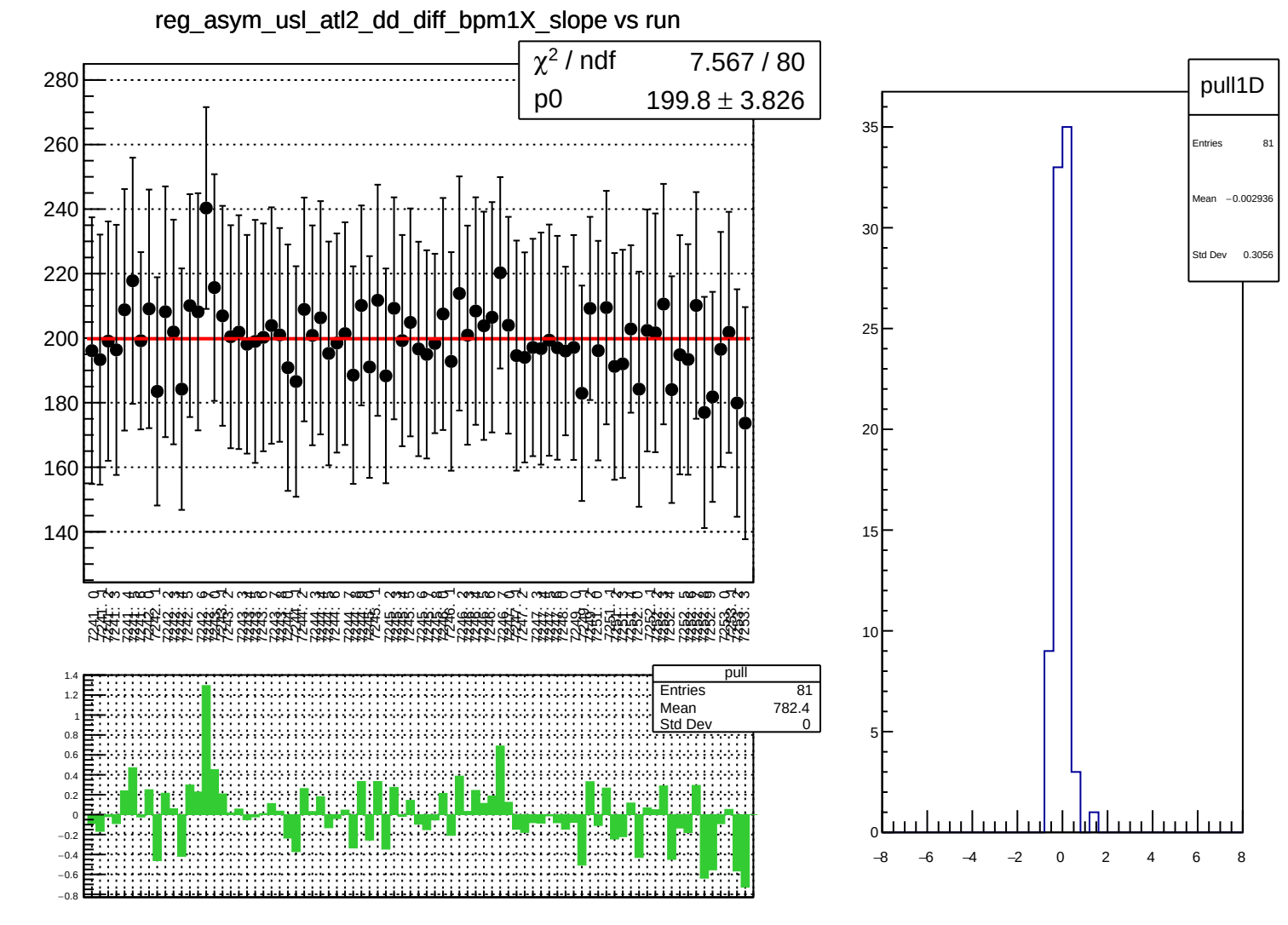

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.993 / 80
p0 221.1 ± 5.412
pull
Entries 81
Mean 1447
Std Dev 0
pull1D
Entries 81
Mean −0.001441
Std Dev 0.3141

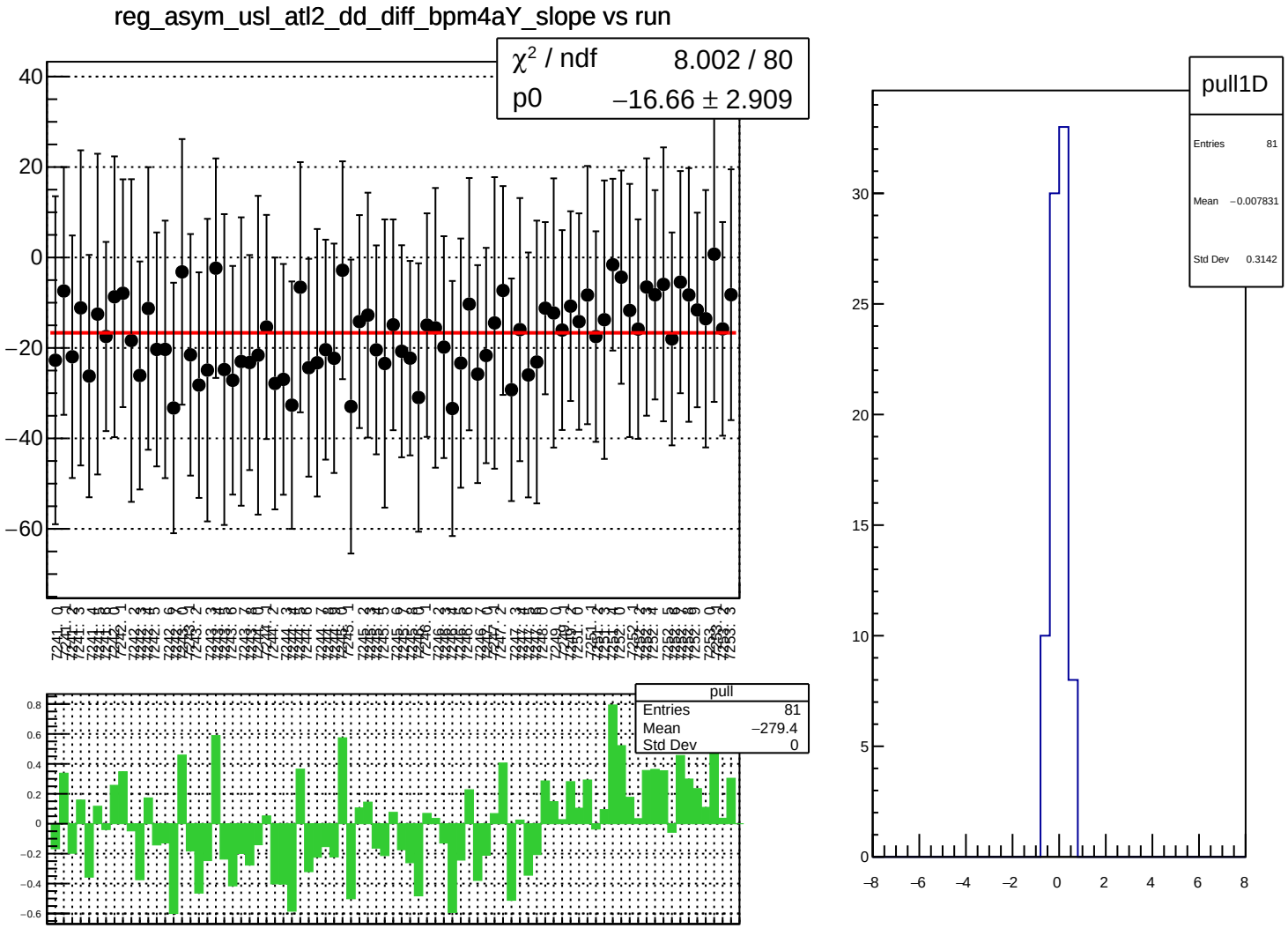

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.989 / 80
p0 47.52 ± 4.264
pull
Entries 81
Mean 881.1
Std Dev 0

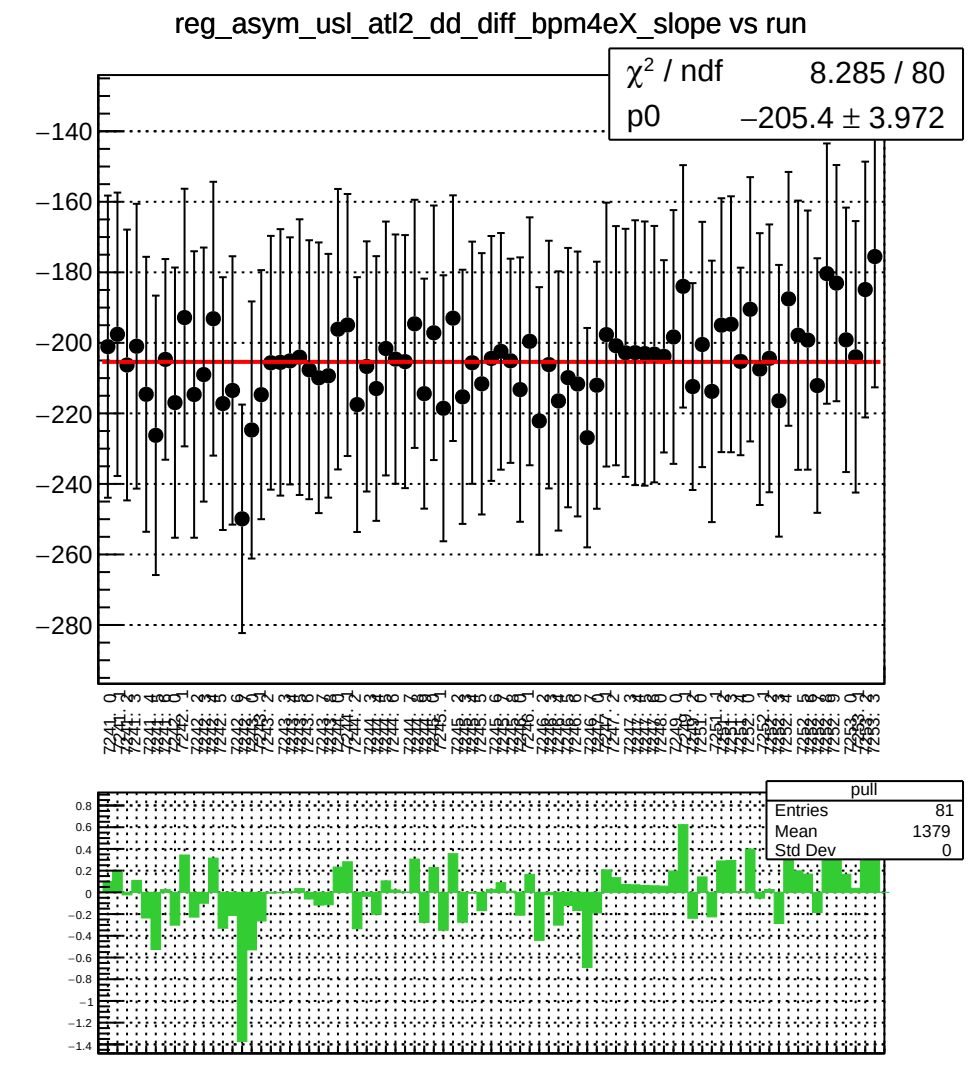

pull1D
Entries 81
Mean 0.00129
Std Dev 0.3141

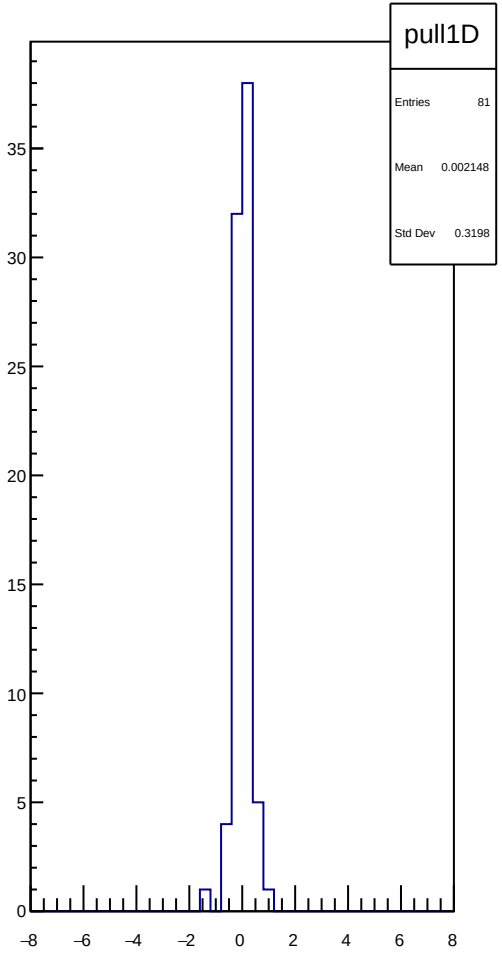

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 17.41 / 80
p0 −138.8 ± 0.1906
−136
−138
−140
−142
−144
pull
Entries 81
Mean −238.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1

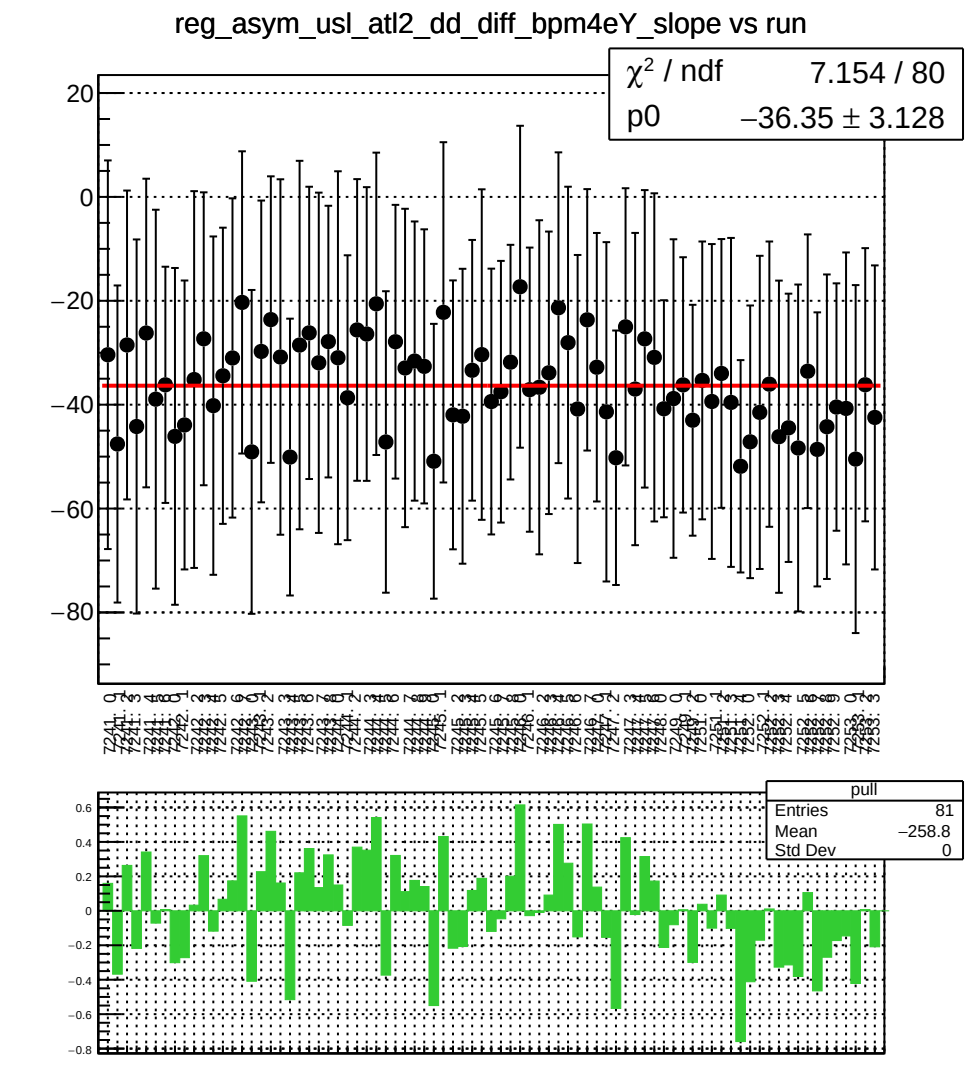

pull1D
Entries 81
Mean −0.01569
Std Dev 0.4633
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

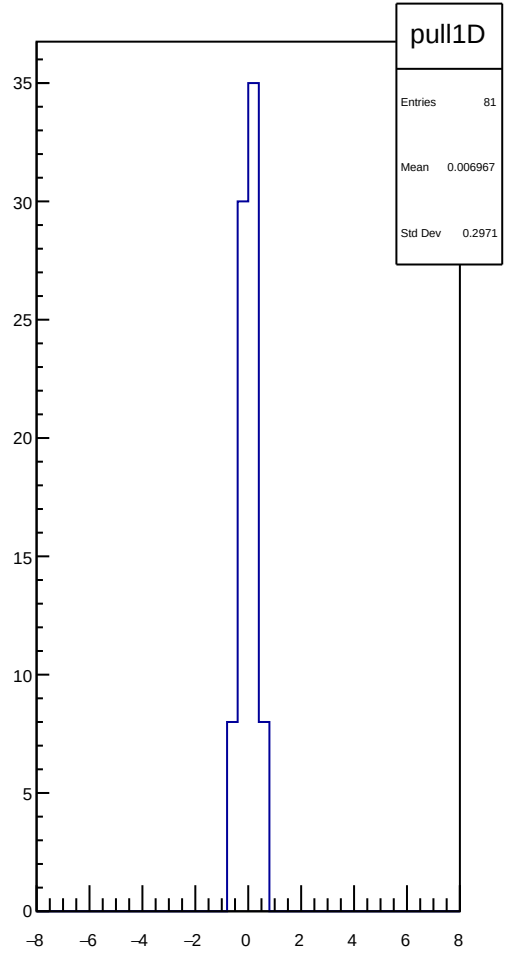

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 7.567 / 80
p0 199.8 ± 3.826
pull
Entries 81
Mean 782.4
Std Dev 0
pull1D
Entries 81
Mean −0.002936
Std Dev 0.3056

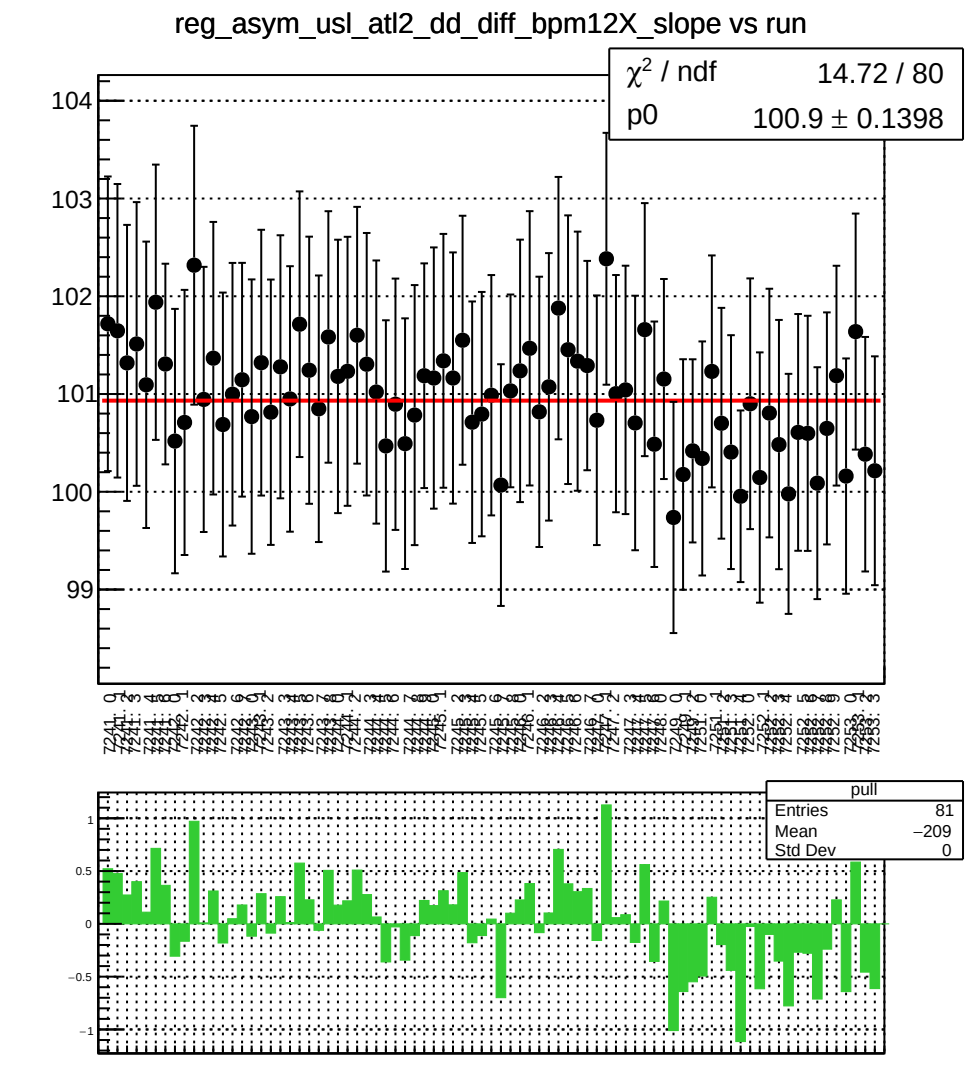

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.002 / 80
p0 −16.66 ± 2.909
pull
Entries 81
Mean −279.4
Std Dev 0
pull1D
Entries 81
Mean −0.007831
Std Dev 0.3142

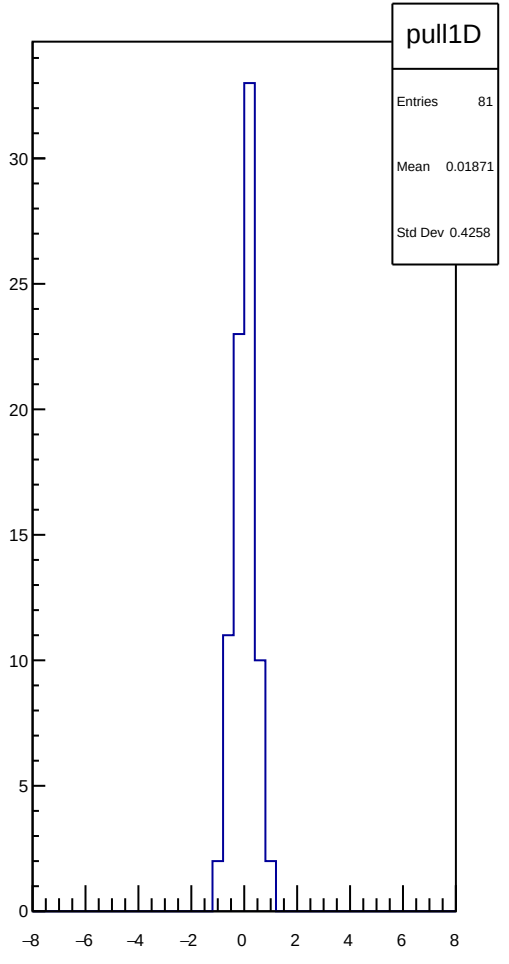

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.285 / 80
p0 −205.4 ± 3.972
pull
Entries 81
Mean 1379
Std Dev 0

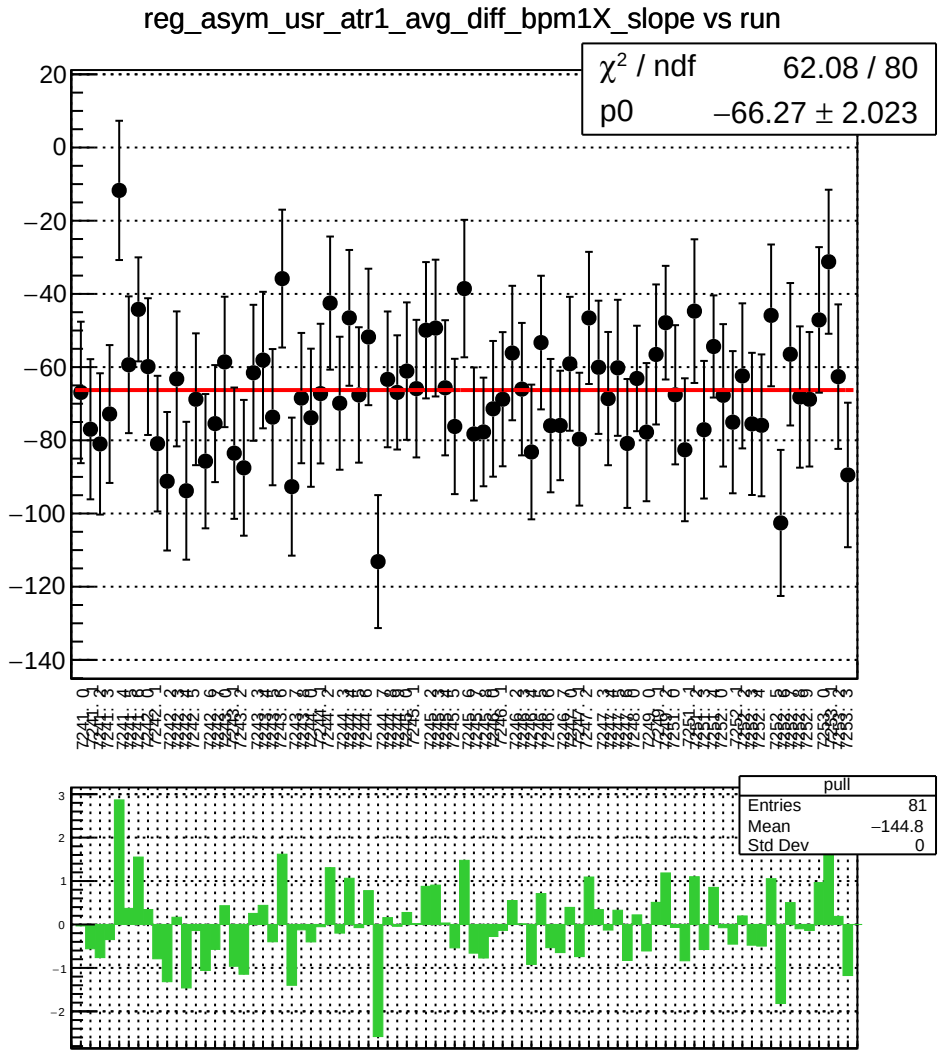

pull1D
Entries 81
Mean 0.002148
Std Dev 0.3198

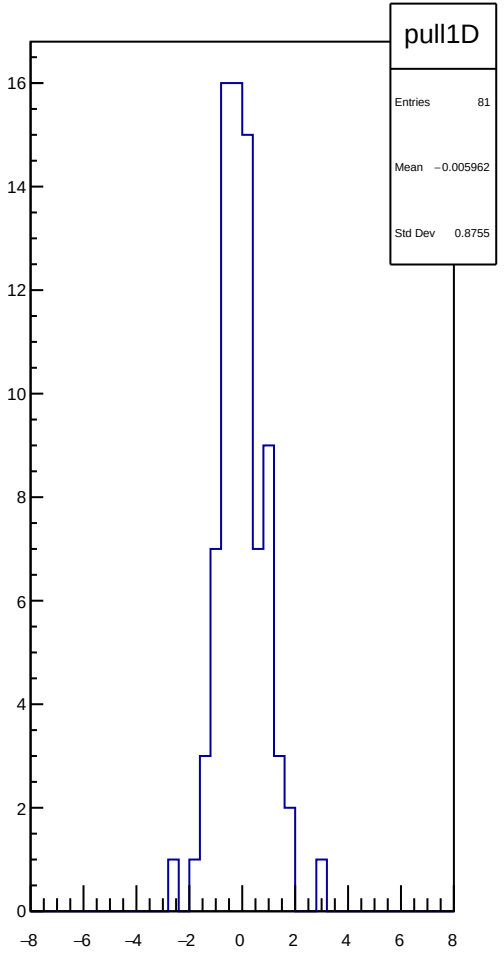

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.154 / 80
p0 −36.35 ± 3.128
pull
Entries 81
Mean −258.8
Std Dev 0

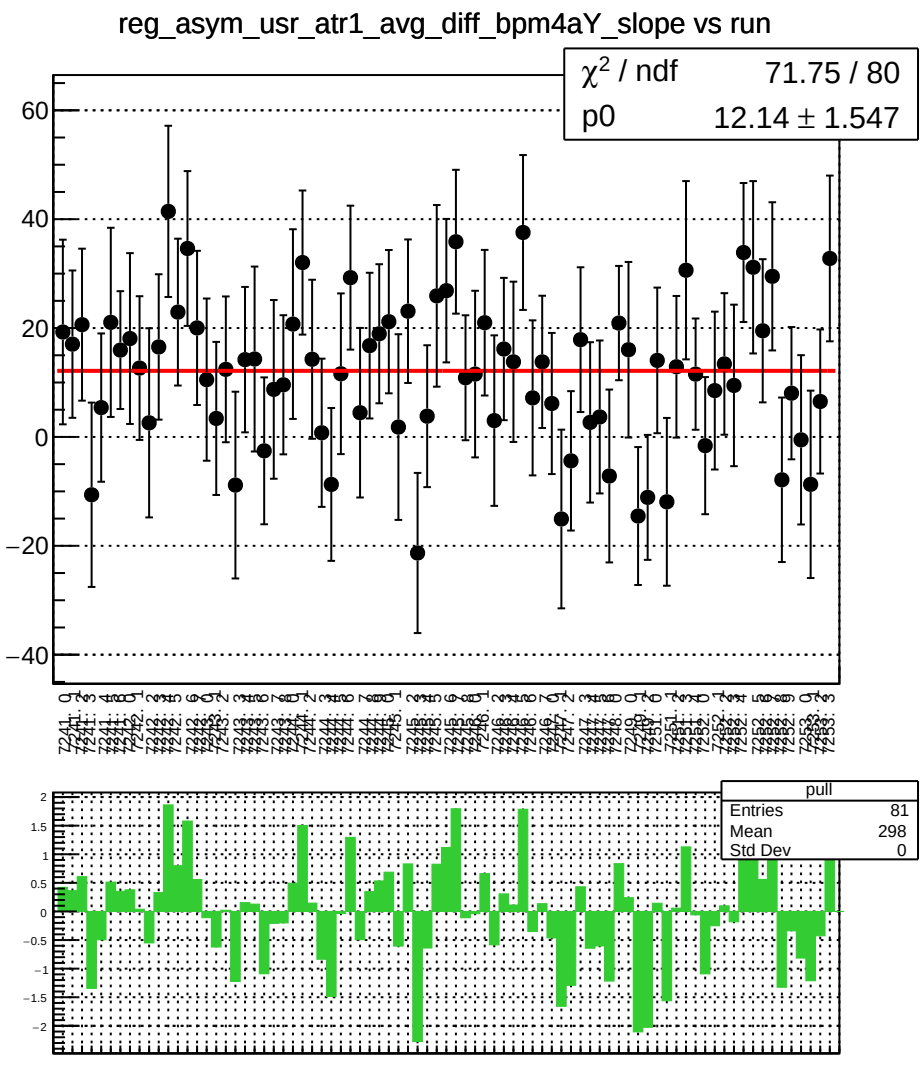

pull1D
Entries 81
Mean 0.006967
Std Dev 0.2971

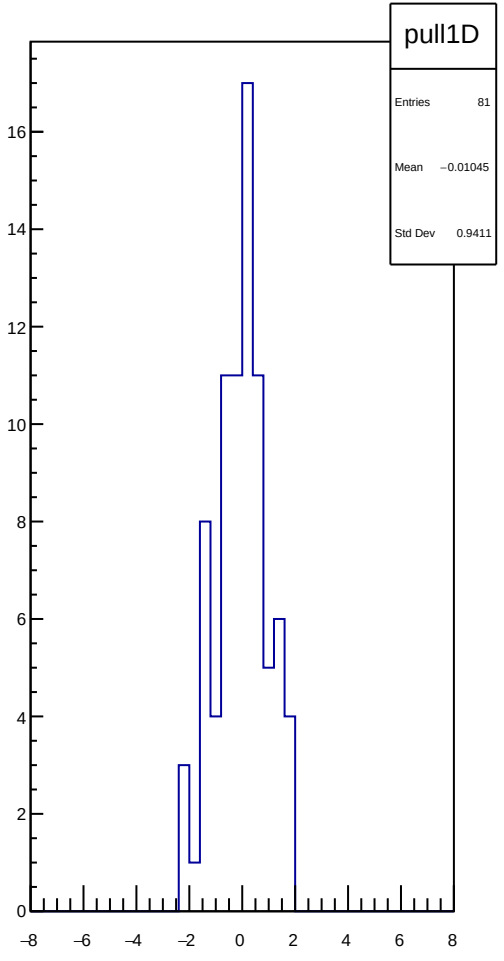

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 14.72 / 80
p0 100.9 ± 0.1398
104
103
102
101
100
99
pull
Entries 81
Mean −209
Std Dev 0
1
0.5
0
−0.5
−1

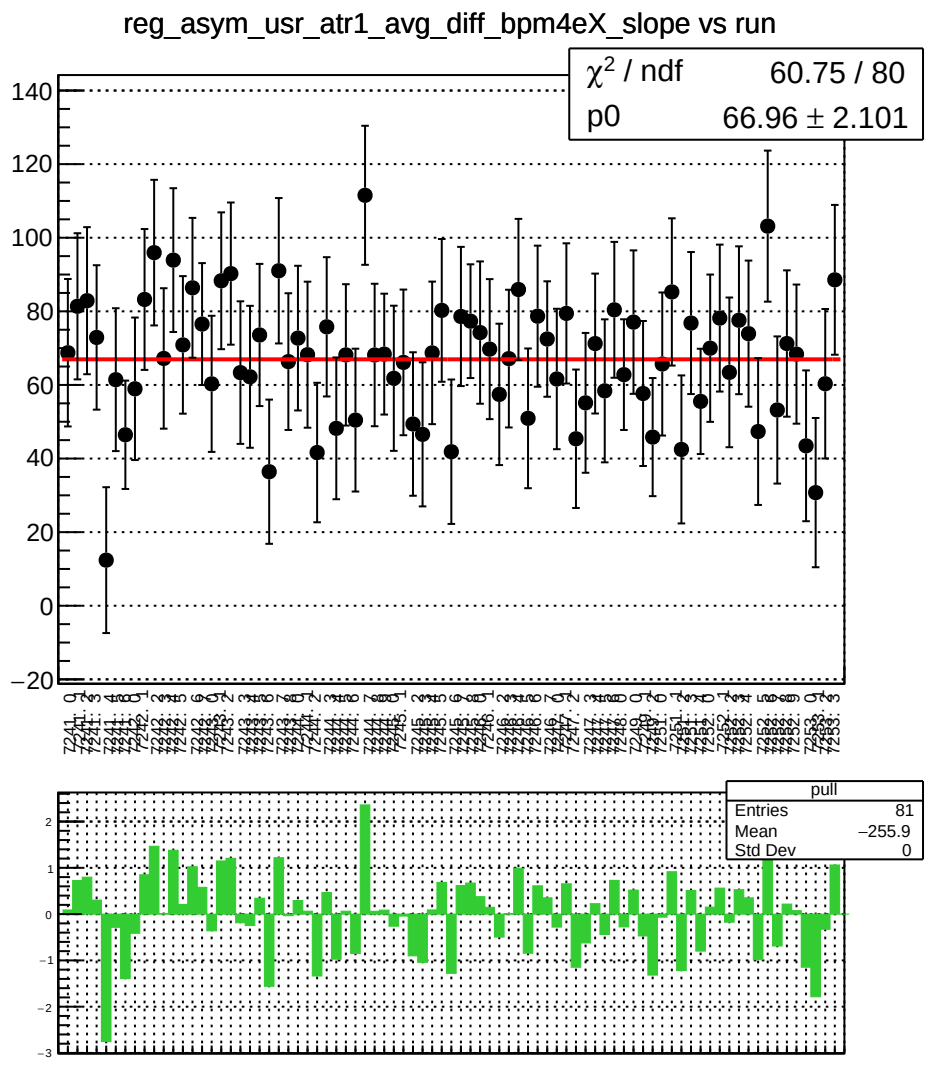

pull1D
Entries 81
Mean 0.01871
Std Dev 0.4258
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

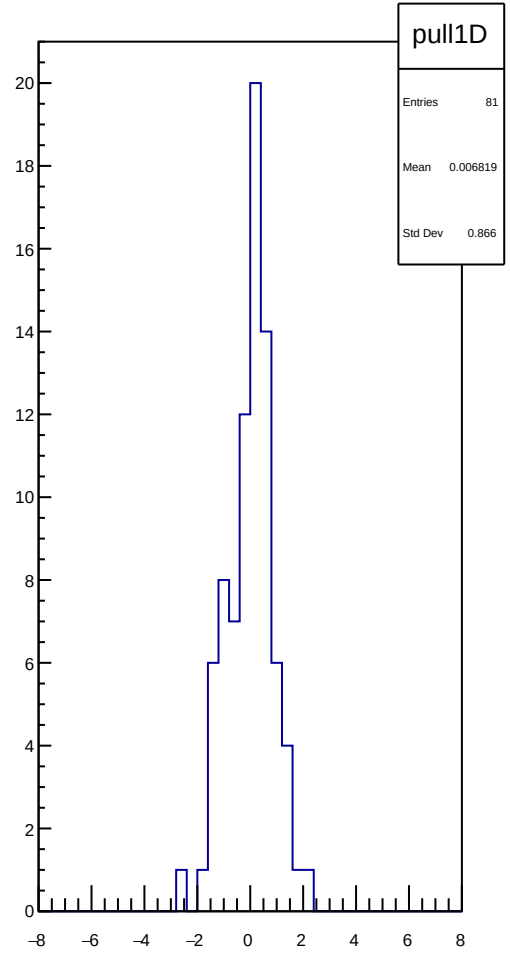

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 62.08 / 80
p0 −66.27 ± 2.023
pull
Entries 81
Mean −144.8
Std Dev 0

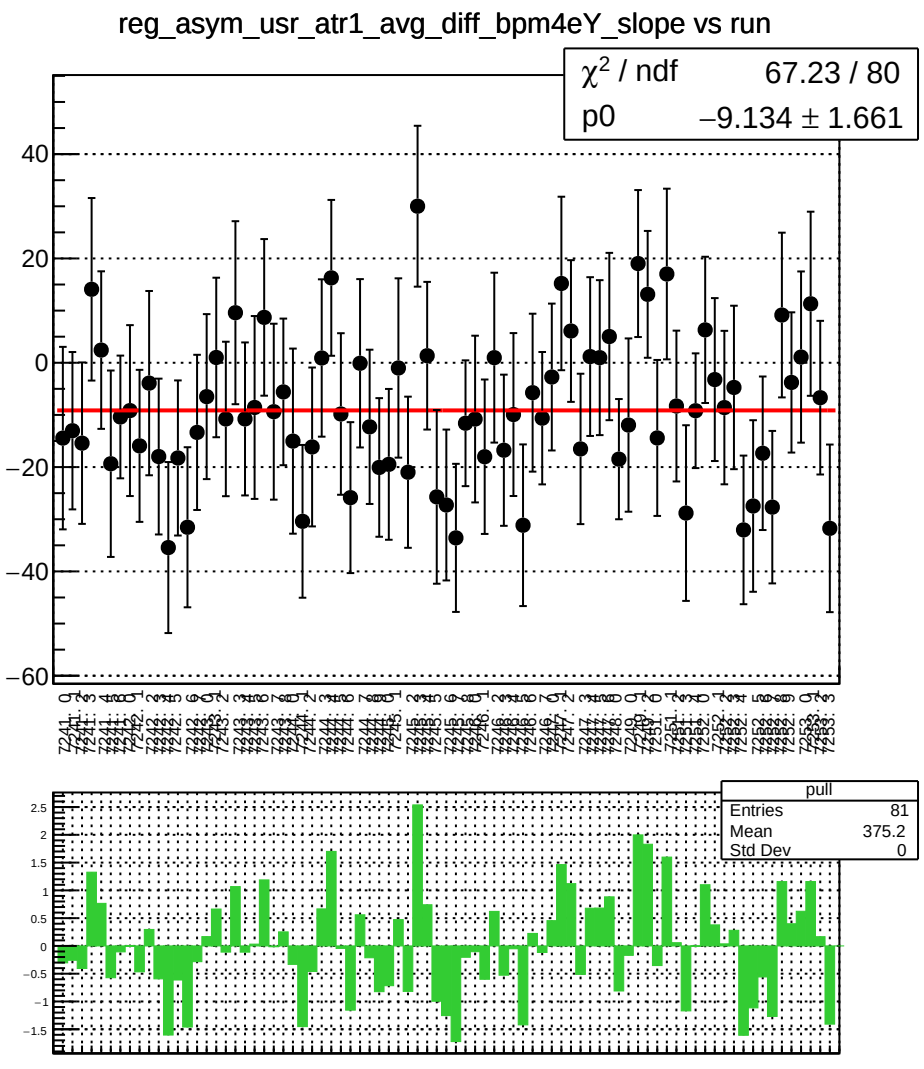

pull1D
Entries 81
Mean −0.005962
Std Dev 0.8755

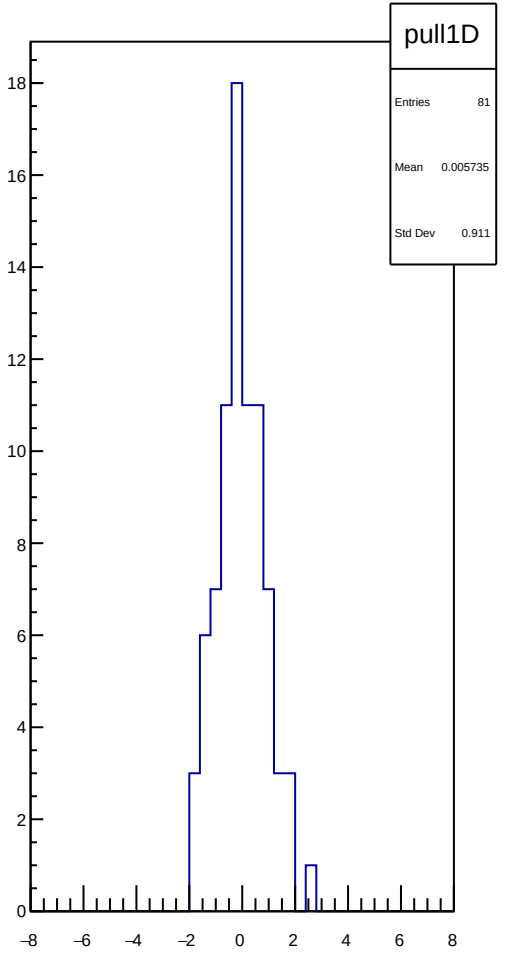

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 71.75 / 80
p0 12.14 ± 1.547
pull
Entries 81
Mean 298
Std Dev 0

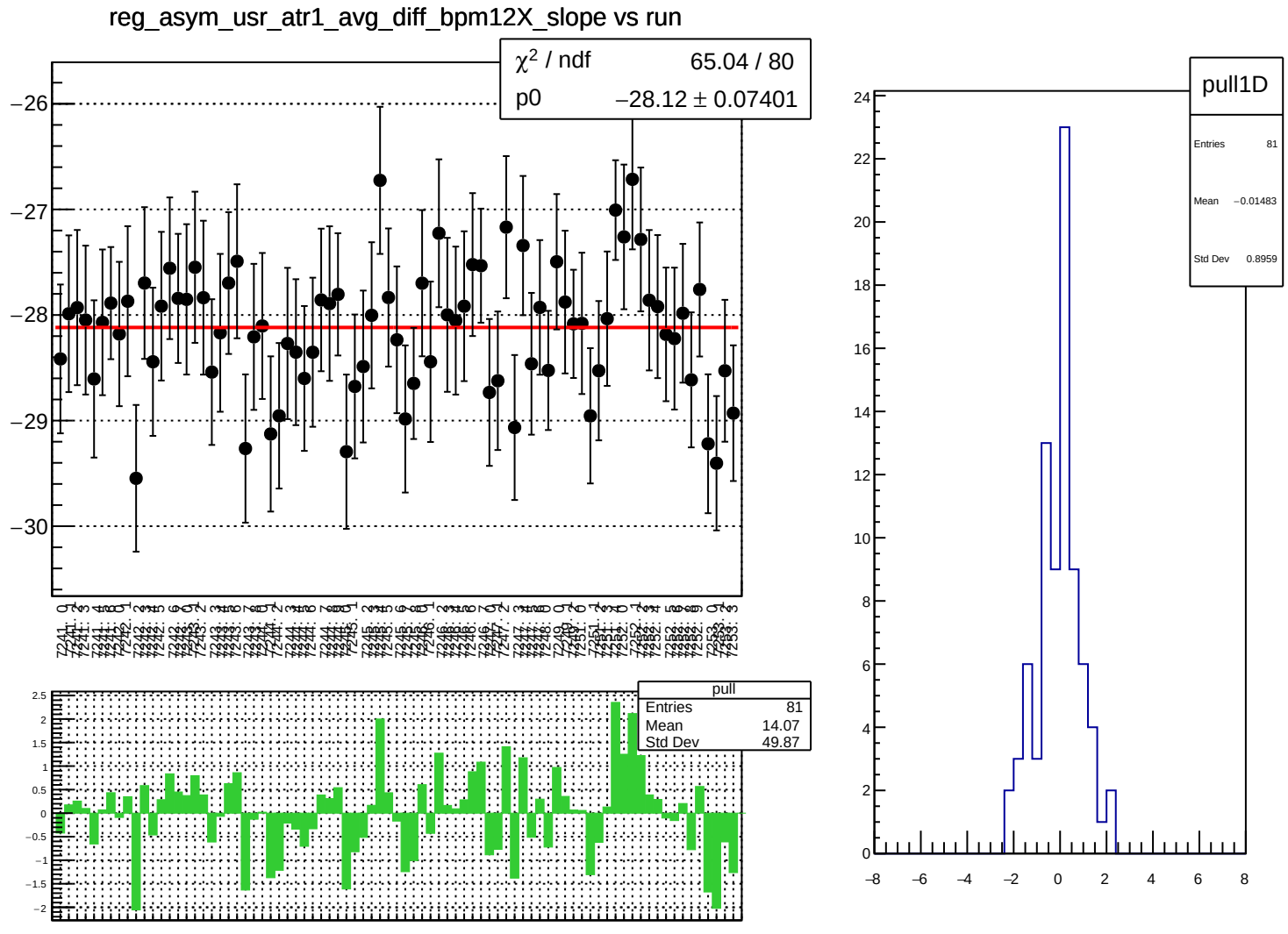

pull1D
Entries 81
Mean −0.01045
Std Dev 0.9411

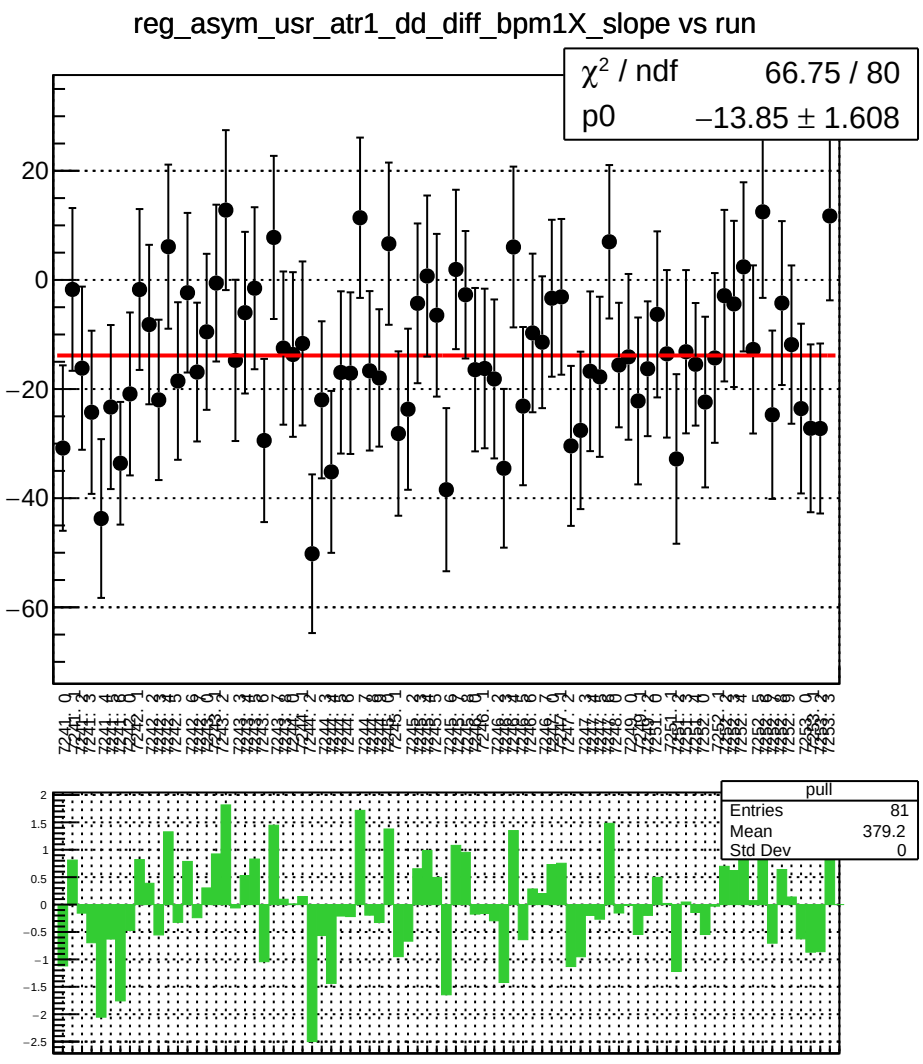

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 60.75 / 80
p0 66.96 ± 2.101
pull
Entries 81
Mean −255.9
Std Dev 0

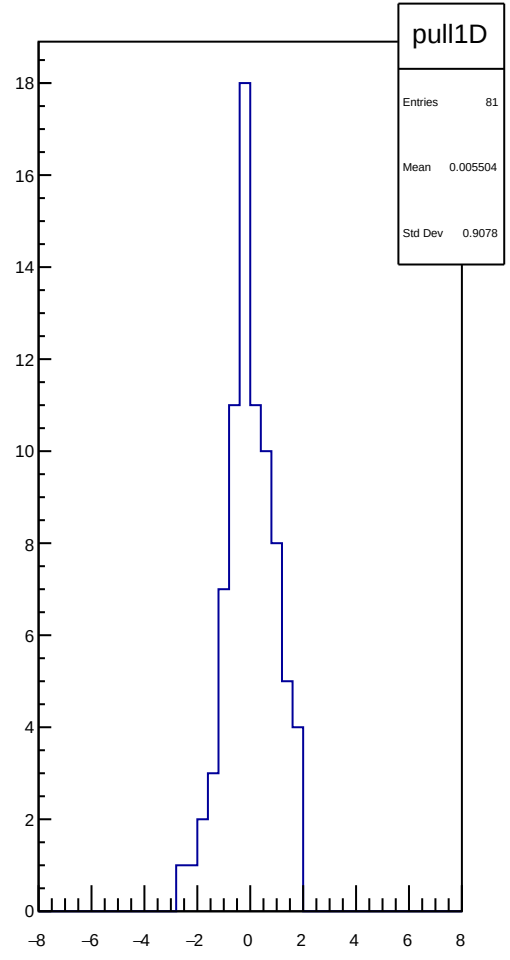

pull1D
Entries 81
Mean 0.006819
Std Dev 0.866

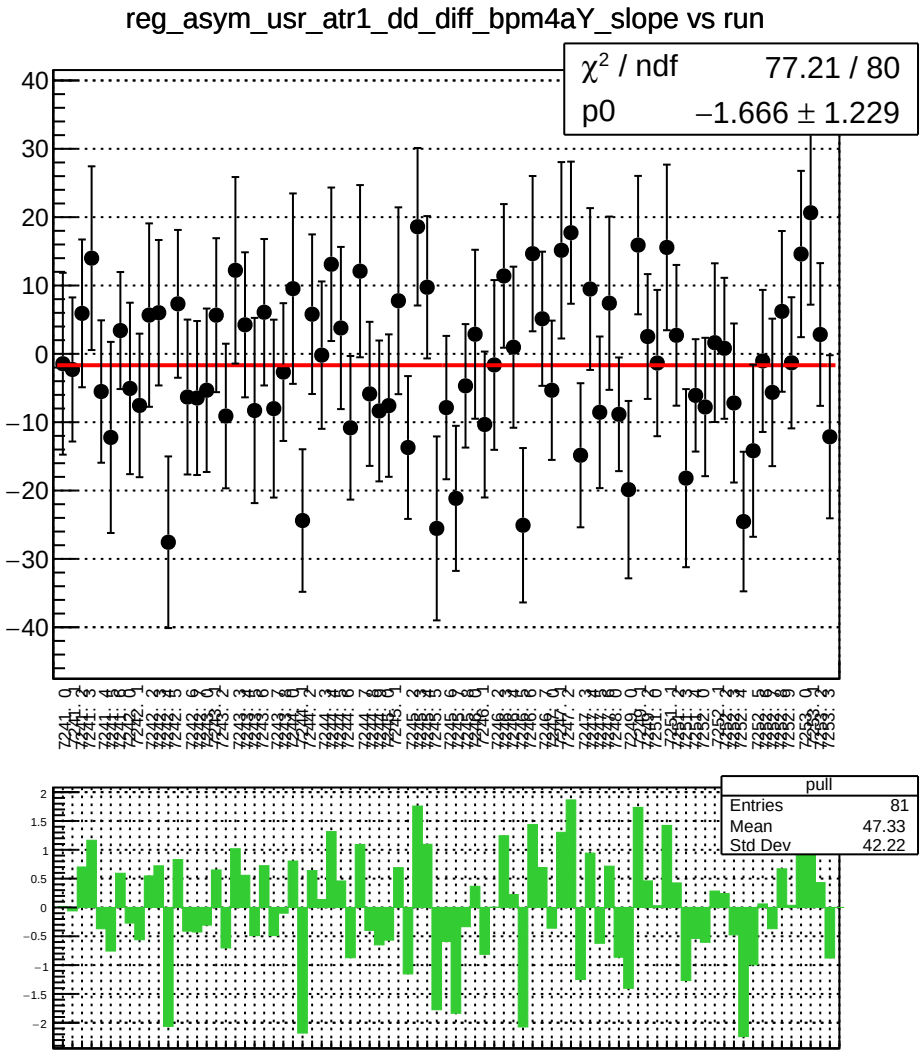

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 67.23 / 80
p0 −9.134 ± 1.661
pull
Entries 81
Mean 375.2
Std Dev 0

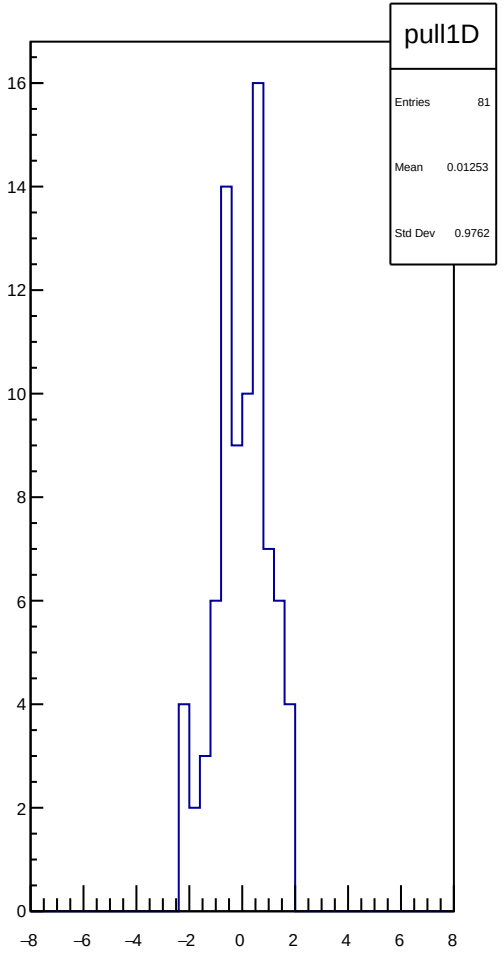

pull1D
Entries 81
Mean 0.005735
Std Dev 0.911

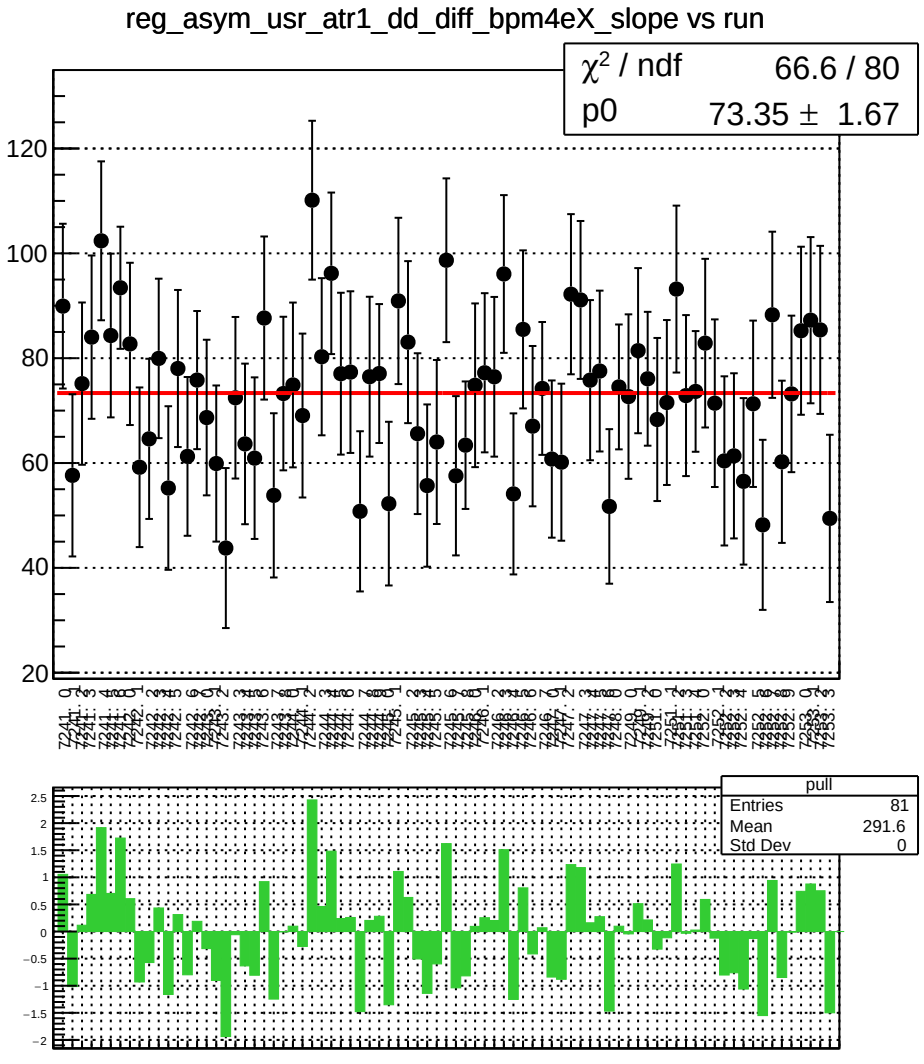

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 65.04 / 80
p0 −28.12 ± 0.07401
pull
Entries 81
Mean 14.07
Std Dev 49.87
pull1D
Entries 81
Mean −0.01483
Std Dev 0.8959

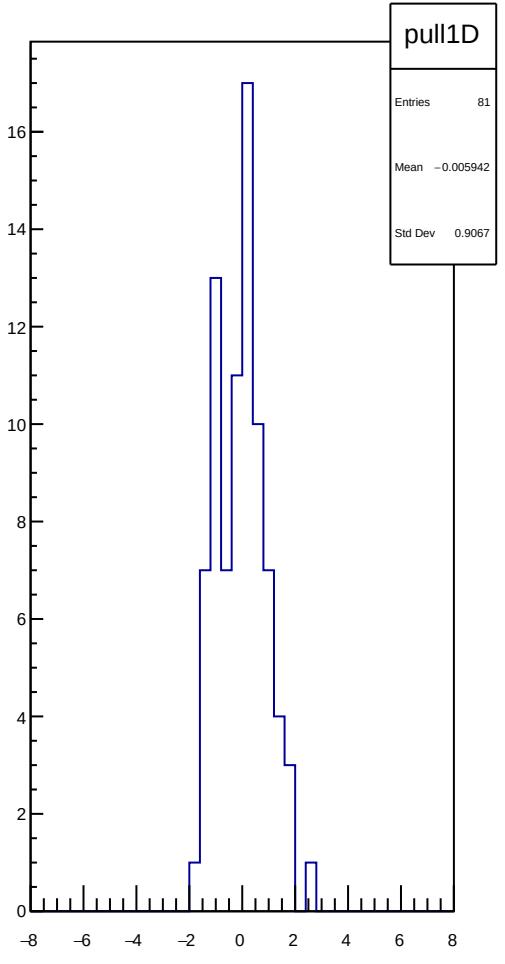

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 66.75 / 80
p0 −13.85 ± 1.608
pull
Entries 81
Mean 379.2
Std Dev 0

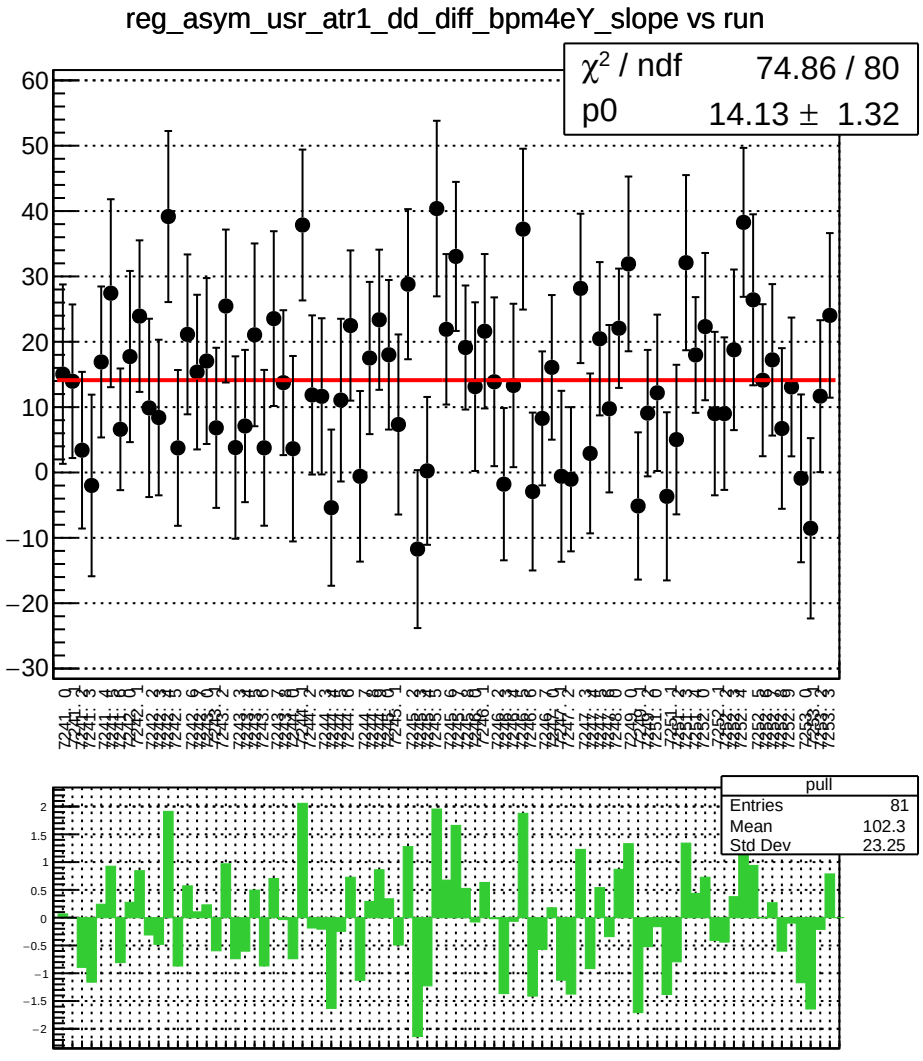

pull1D
Entries 81
Mean 0.005504
Std Dev 0.9078

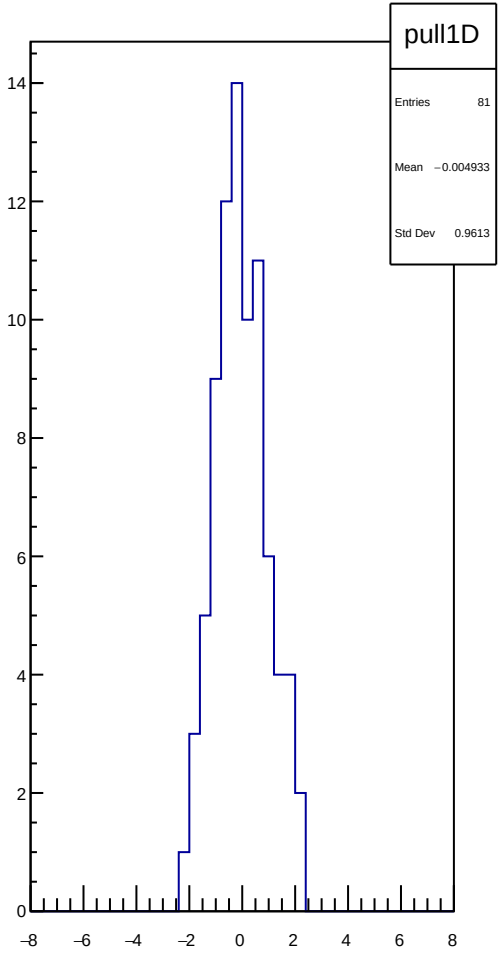

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 77.21 / 80
p0 −1.666 ± 1.229
pull
Entries 81
Mean 47.33
Std Dev 42.22

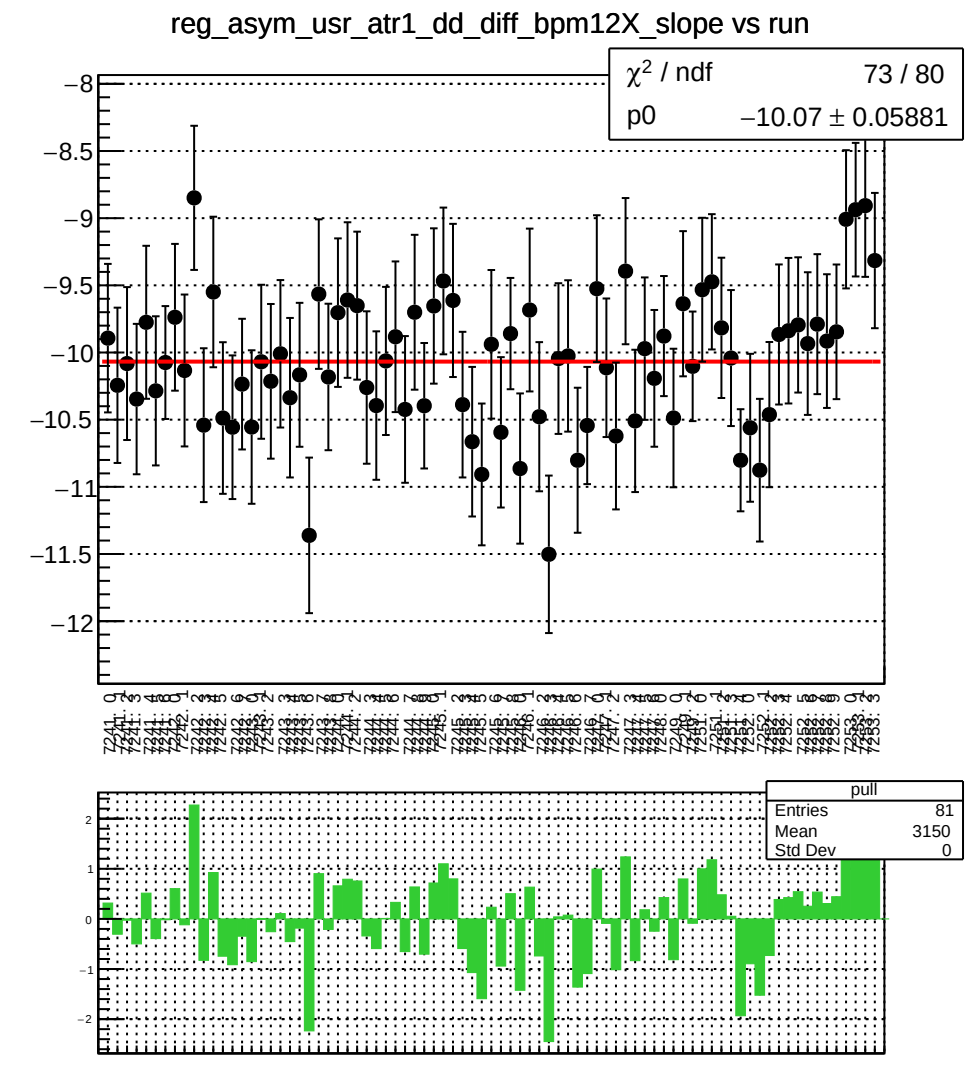

pull1D
Entries 81
Mean 0.01253
Std Dev 0.9762

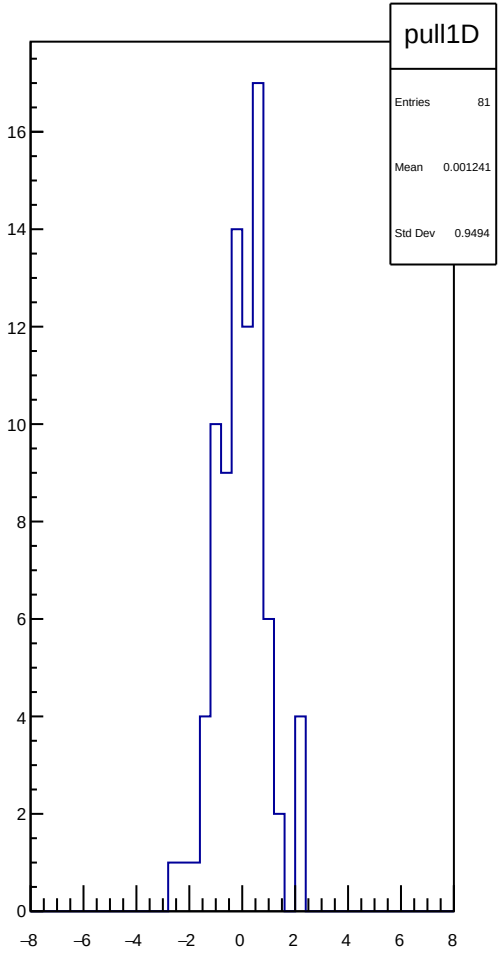

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 66.6 / 80
p0 73.35 ± 1.67
pull
Entries 81
Mean 291.6
Std Dev 0

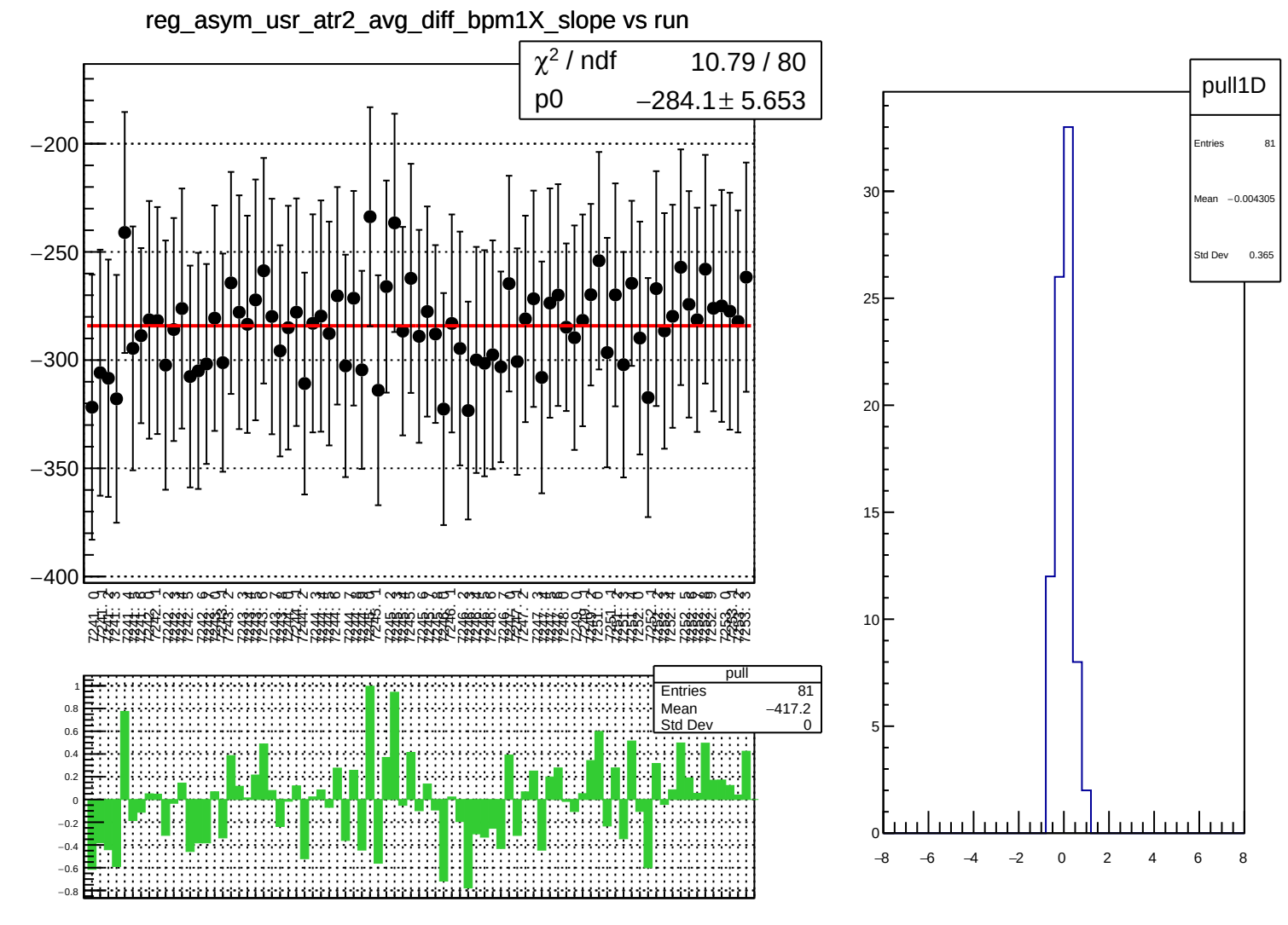

pull1D
Entries 81
Mean −0.005942
Std Dev 0.9067

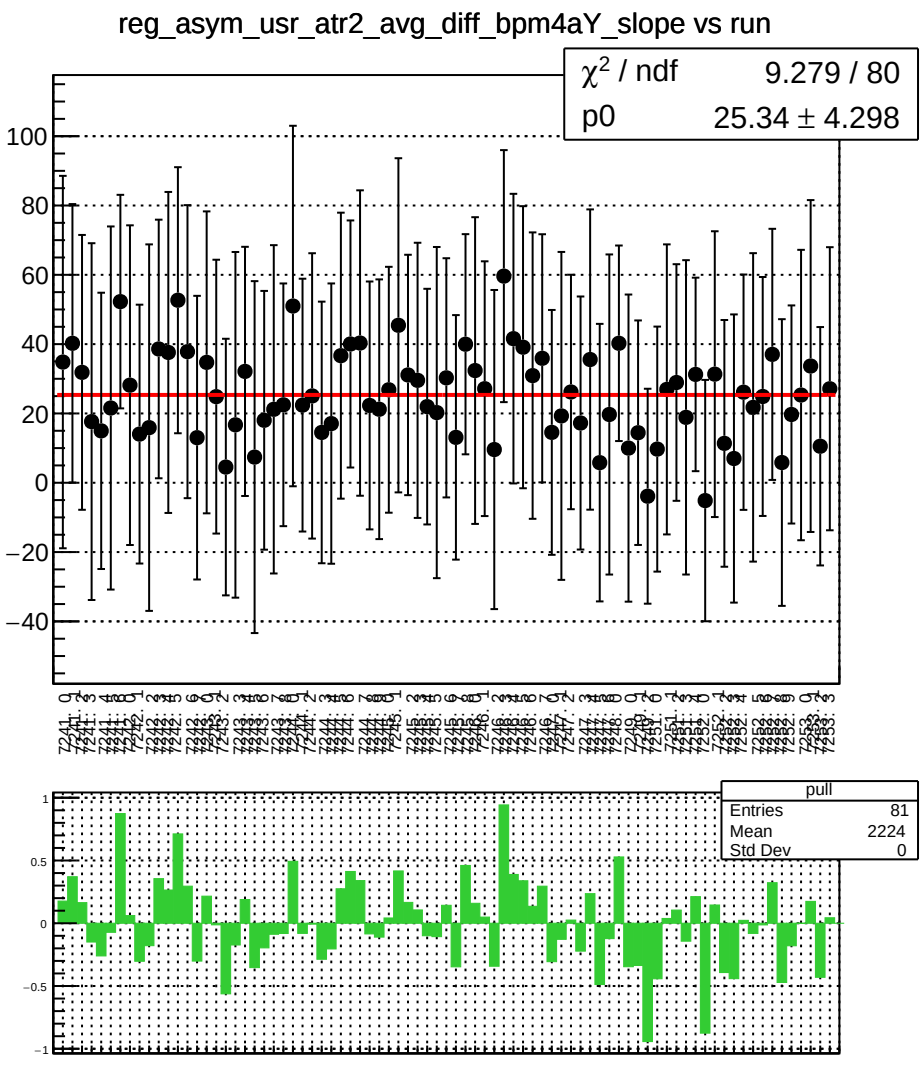

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 74.86 / 80
p0 14.13 ± 1.32
pull
Entries 81
Mean 102.3
Std Dev 23.25

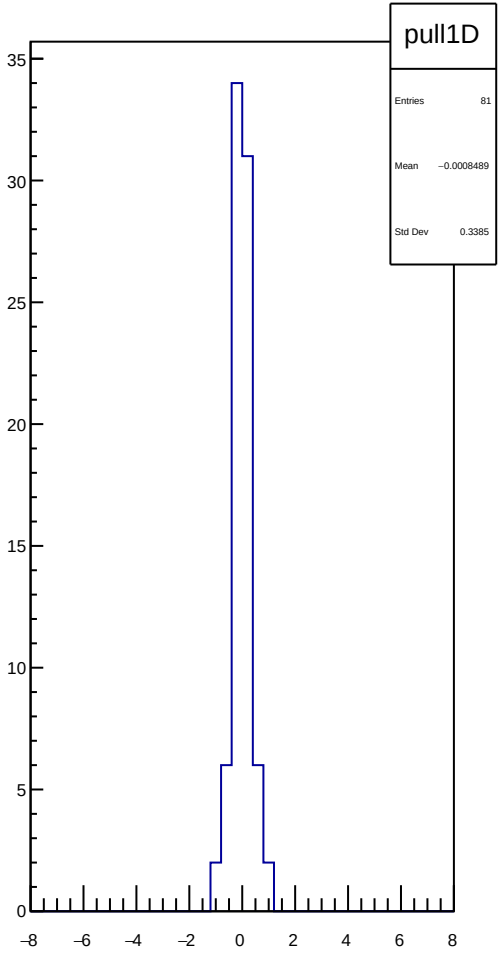

pull1D
Entries 81
Mean −0.004933
Std Dev 0.9613

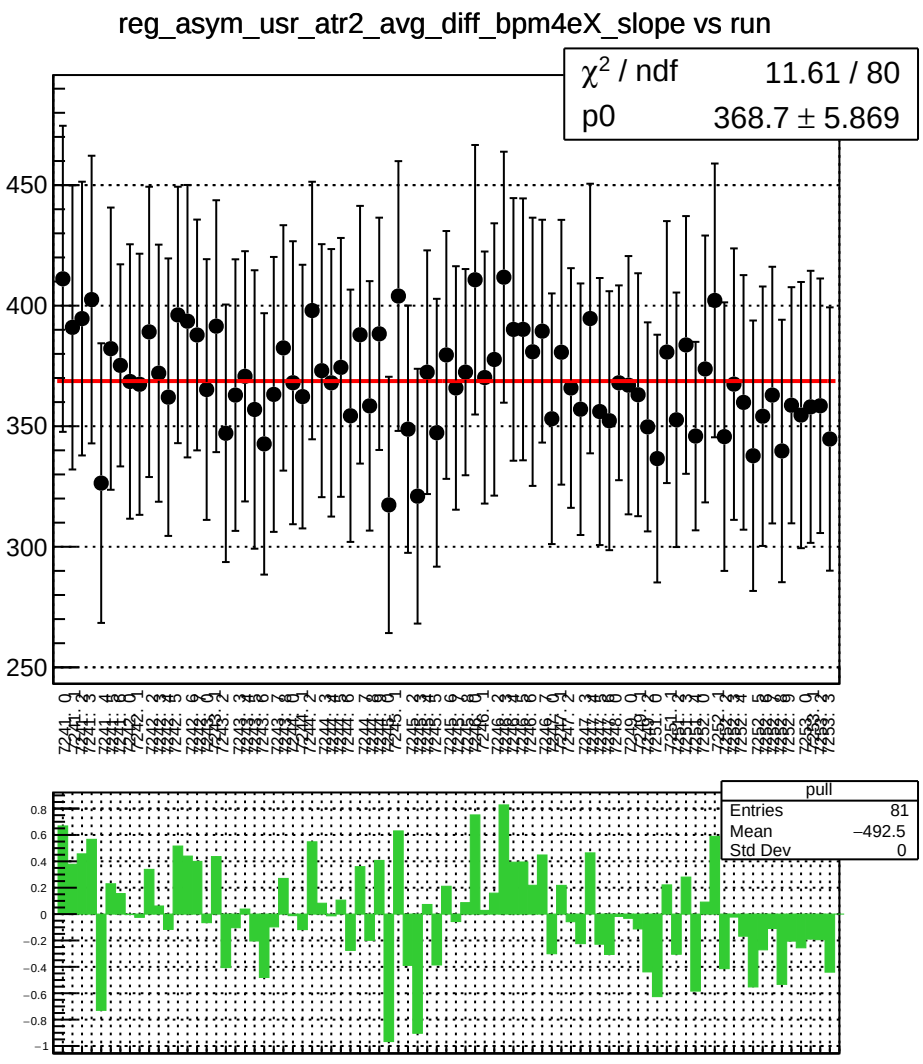

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 73 / 80
p0 −10.07 ± 0.05881
pull
Entries 81
Mean 3150
Std Dev 0

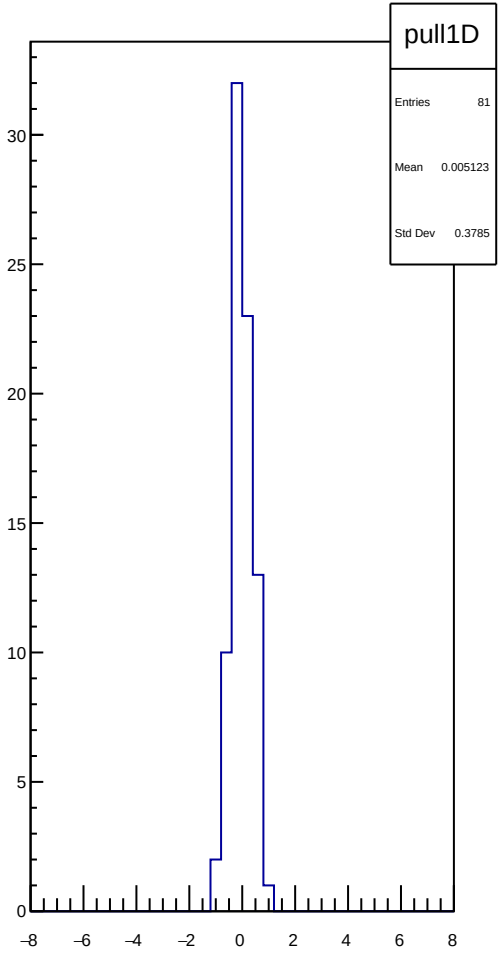

pull1D
Entries 81
Mean 0.001241
Std Dev 0.9494

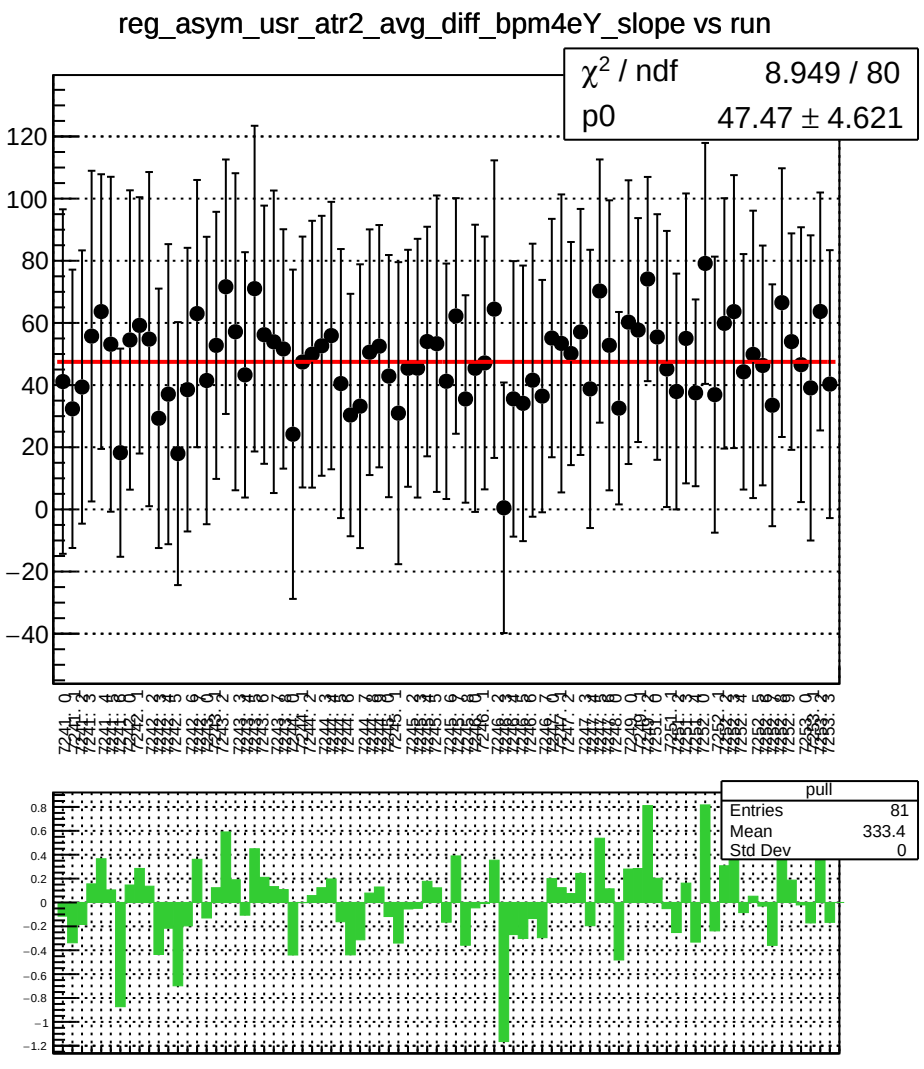

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 10.79 / 80
p0 −284.1 ± 5.653
−200
−250
−300
−350
−400
pull
Entries 81
Mean −417.2
Std Dev 0
pull1D
Entries 81
Mean −0.004305
Std Dev 0.365
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

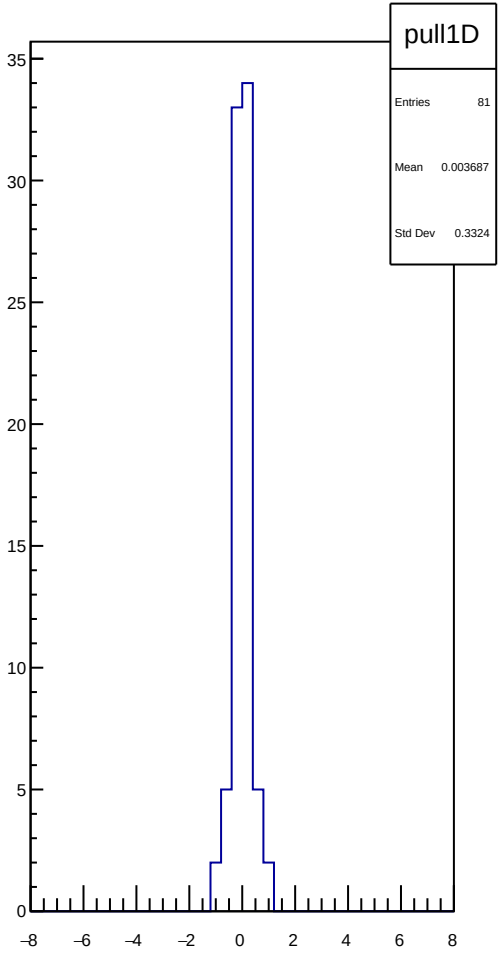

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.279 / 80
p0 25.34 ± 4.298
pull
Entries 81
Mean 2224
Std Dev 0

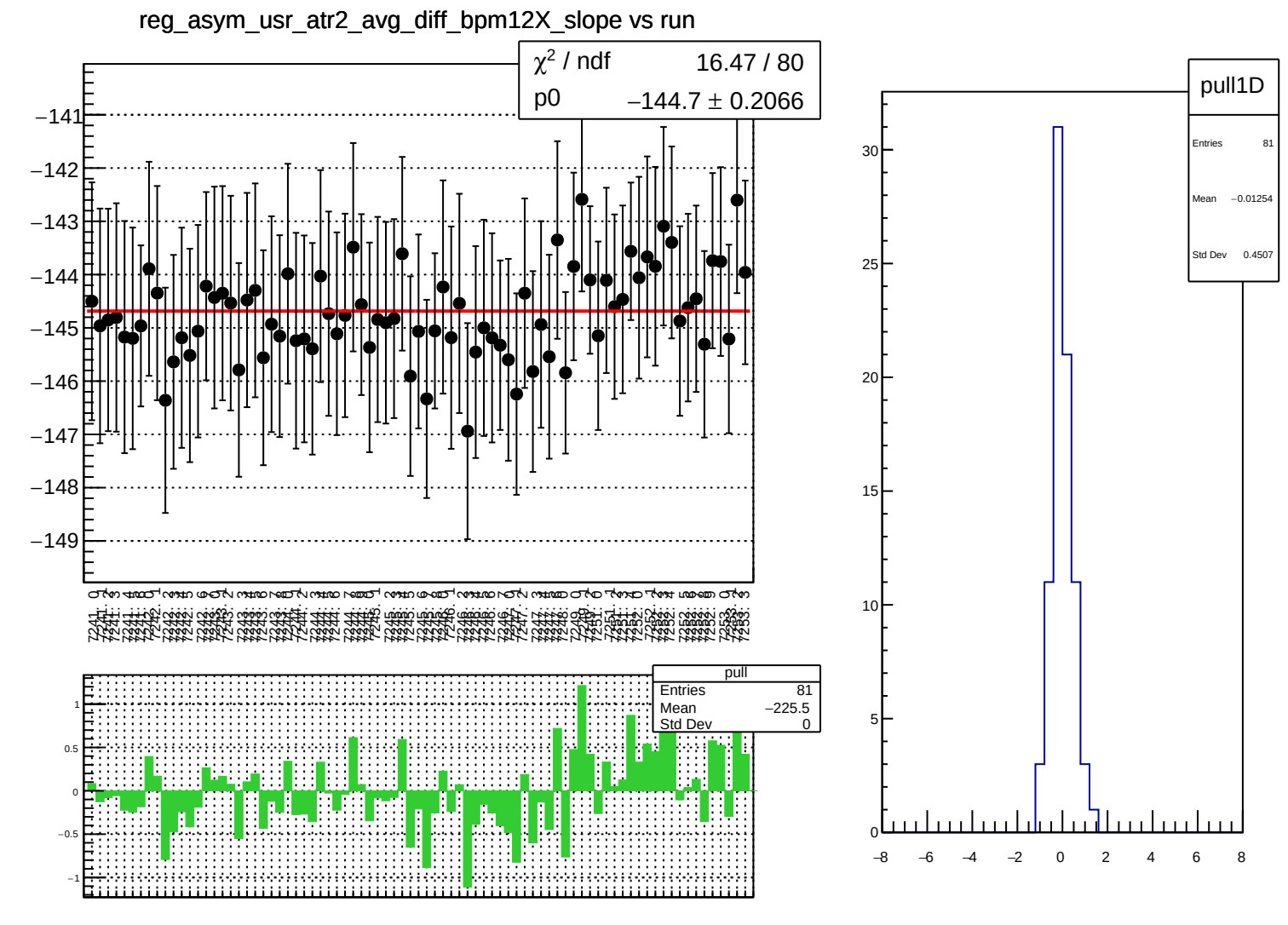

pull1D
Entries 81
Mean −0.0008489
Std Dev 0.3385

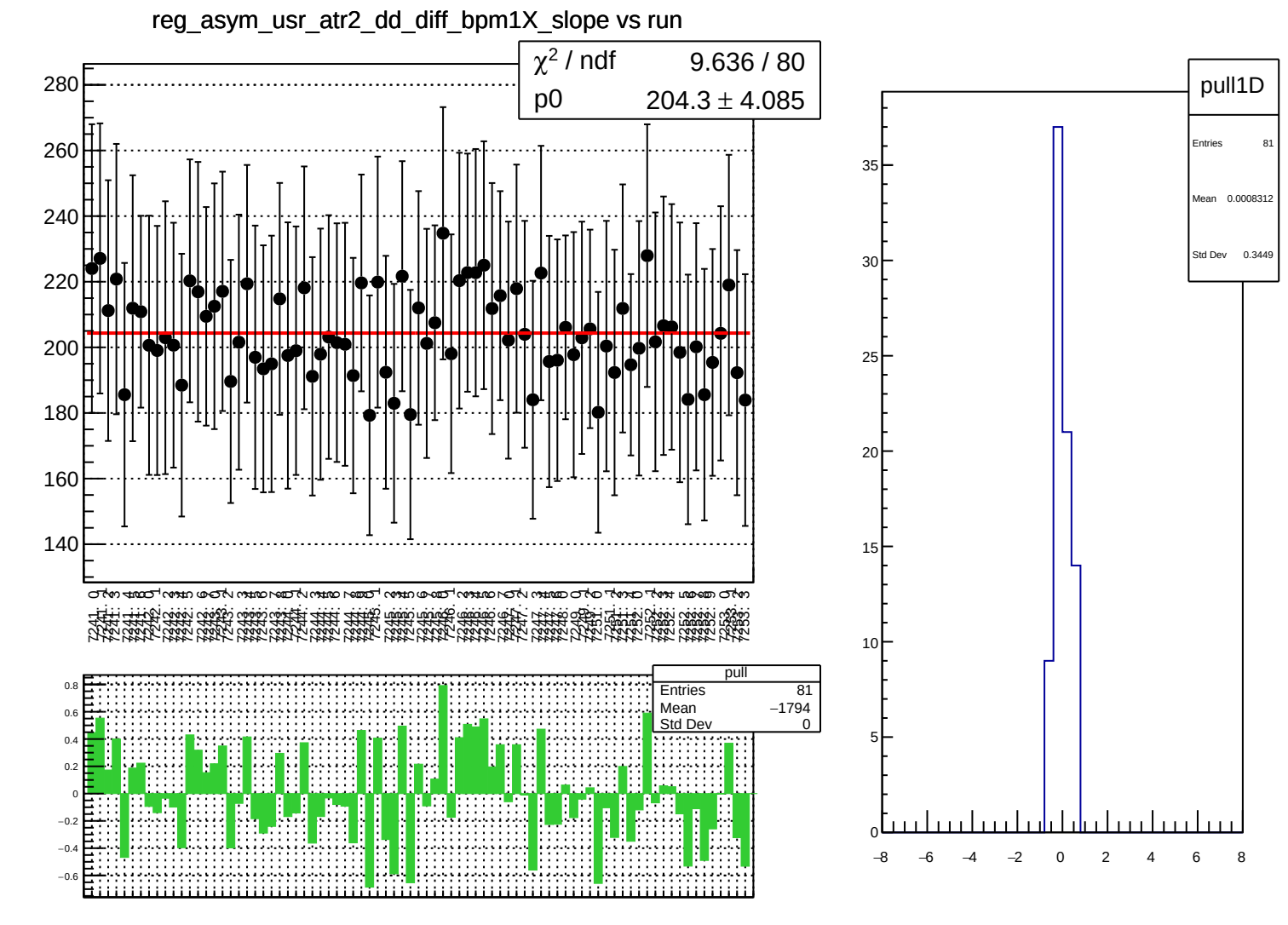

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 11.61 / 80
p0 368.7 ± 5.869
pull
Entries 81
Mean −492.5
Std Dev 0

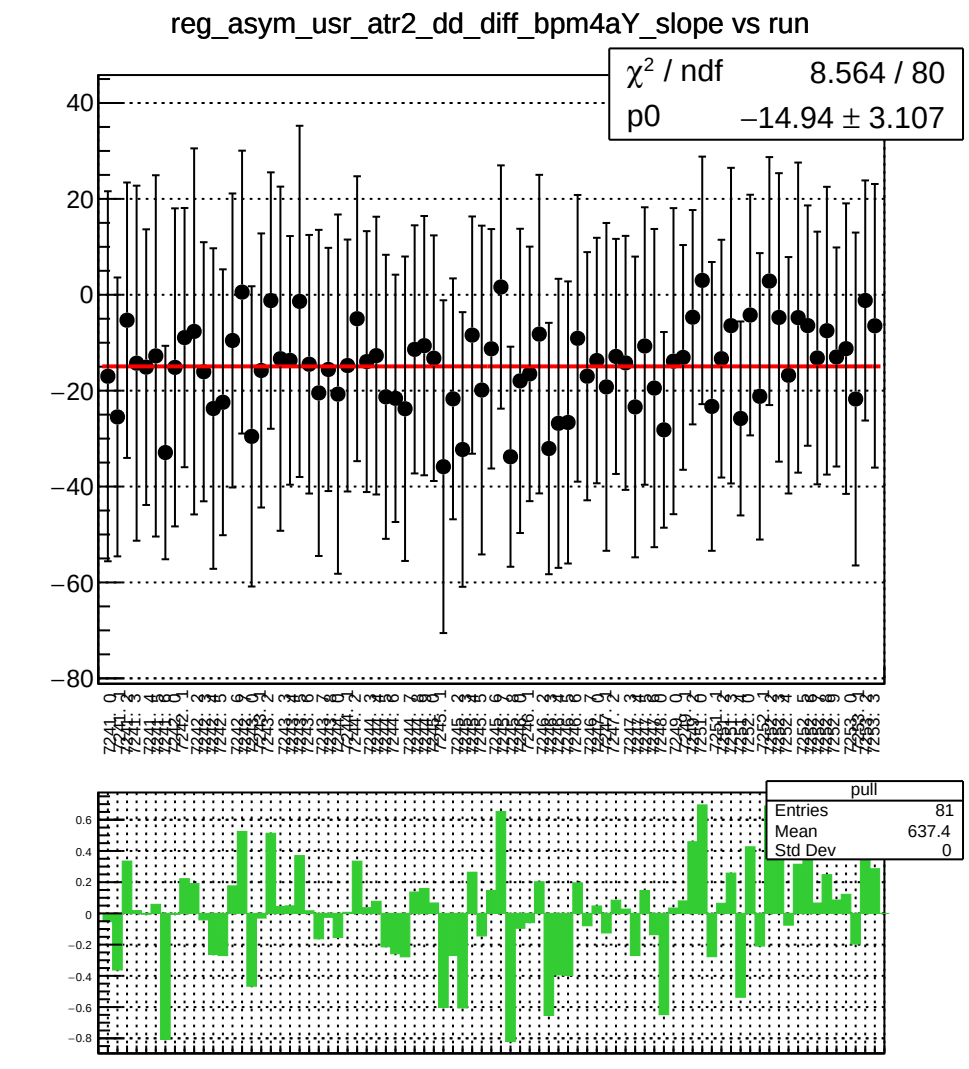

pull1D
Entries 81
Mean 0.005123
Std Dev 0.3785

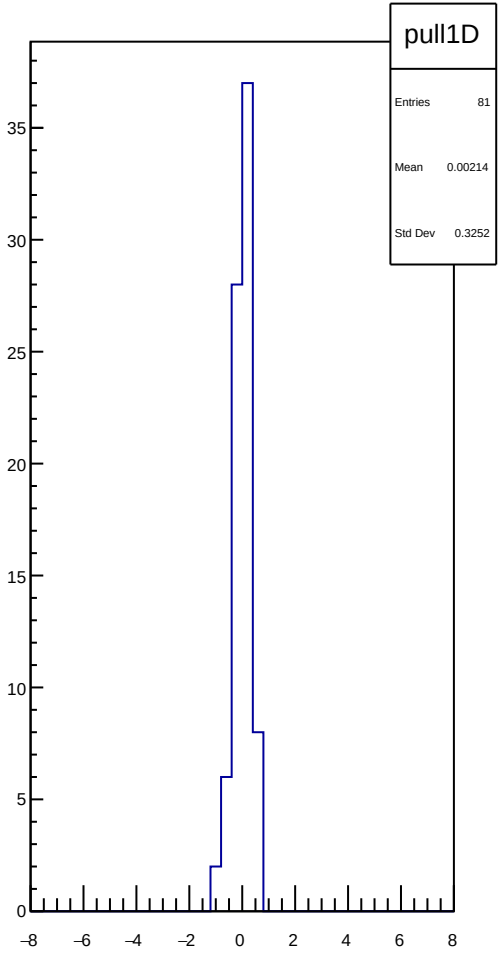

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.949 / 80
p0 47.47 ± 4.621
pull
Entries 81
Mean 333.4
Std Dev 0

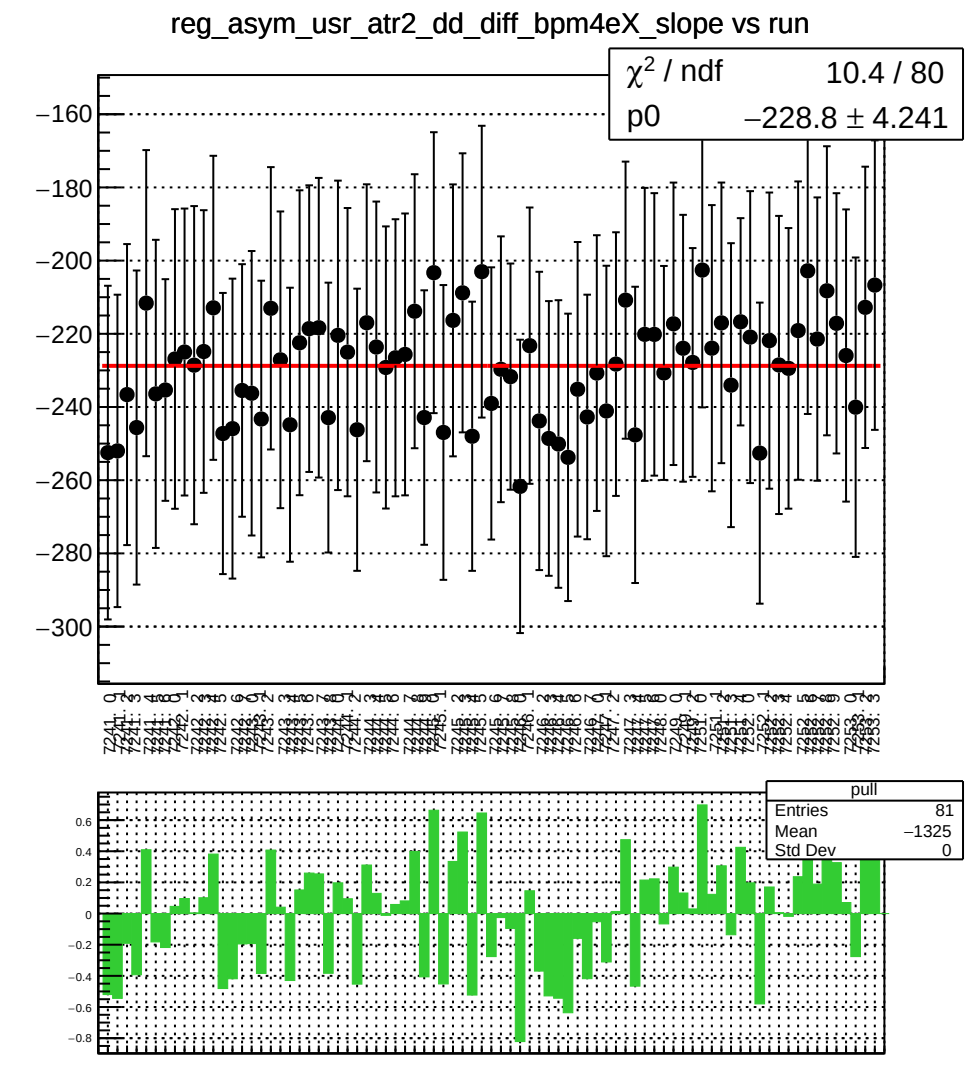

pull1D
Entries 81
Mean 0.003687
Std Dev 0.3324

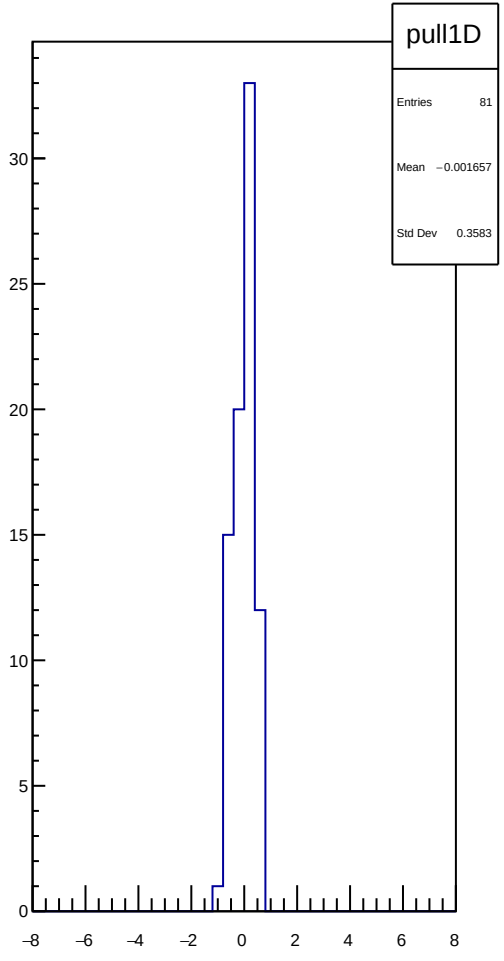

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 16.47 / 80
p0 −144.7 ± 0.2066
pull
Entries 81
Mean −225.5
Std Dev 0
pull1D
Entries 81
Mean −0.01254
Std Dev 0.4507

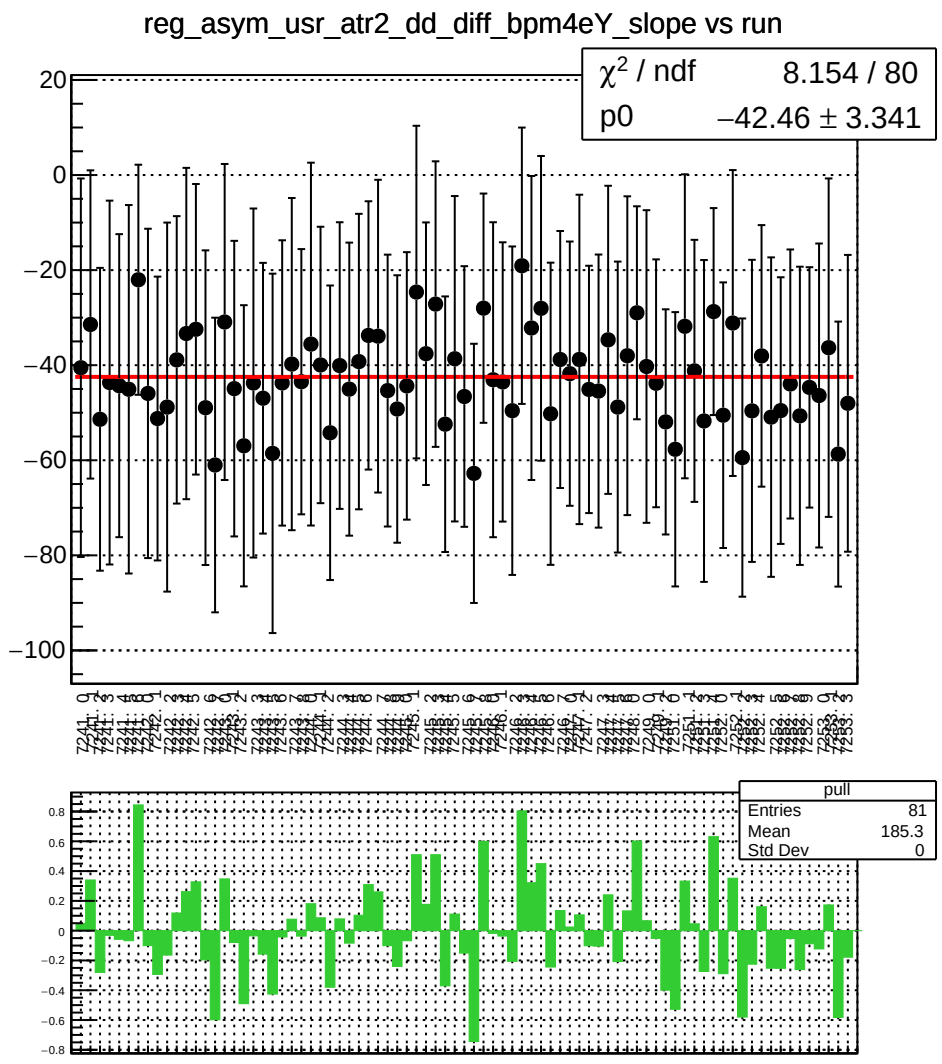

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 9.636 / 80
p0 204.3 ± 4.085
pull
Entries 81
Mean −1794
Std Dev 0
pull1D
Entries 81
Mean 0.0008312
Std Dev 0.3449

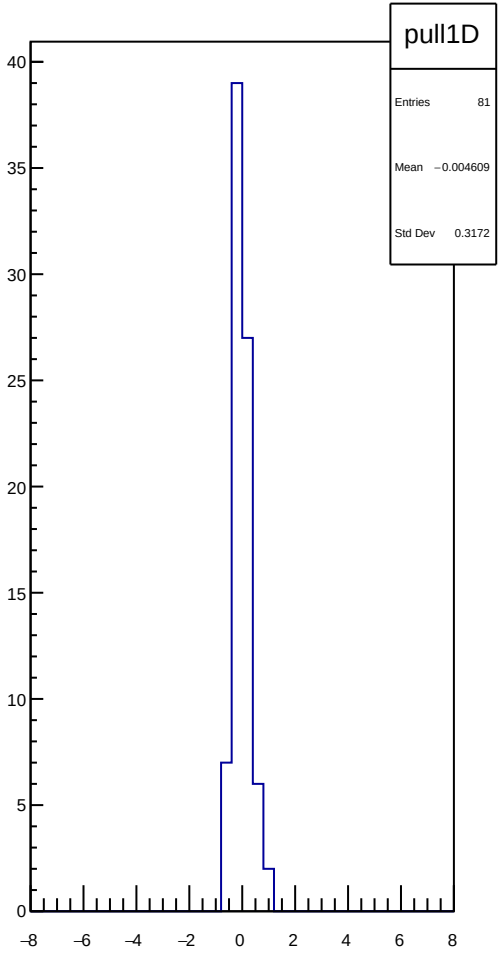

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.564 / 80
p0 −14.94 ± 3.107
pull
Entries 81
Mean 637.4
Std Dev 0

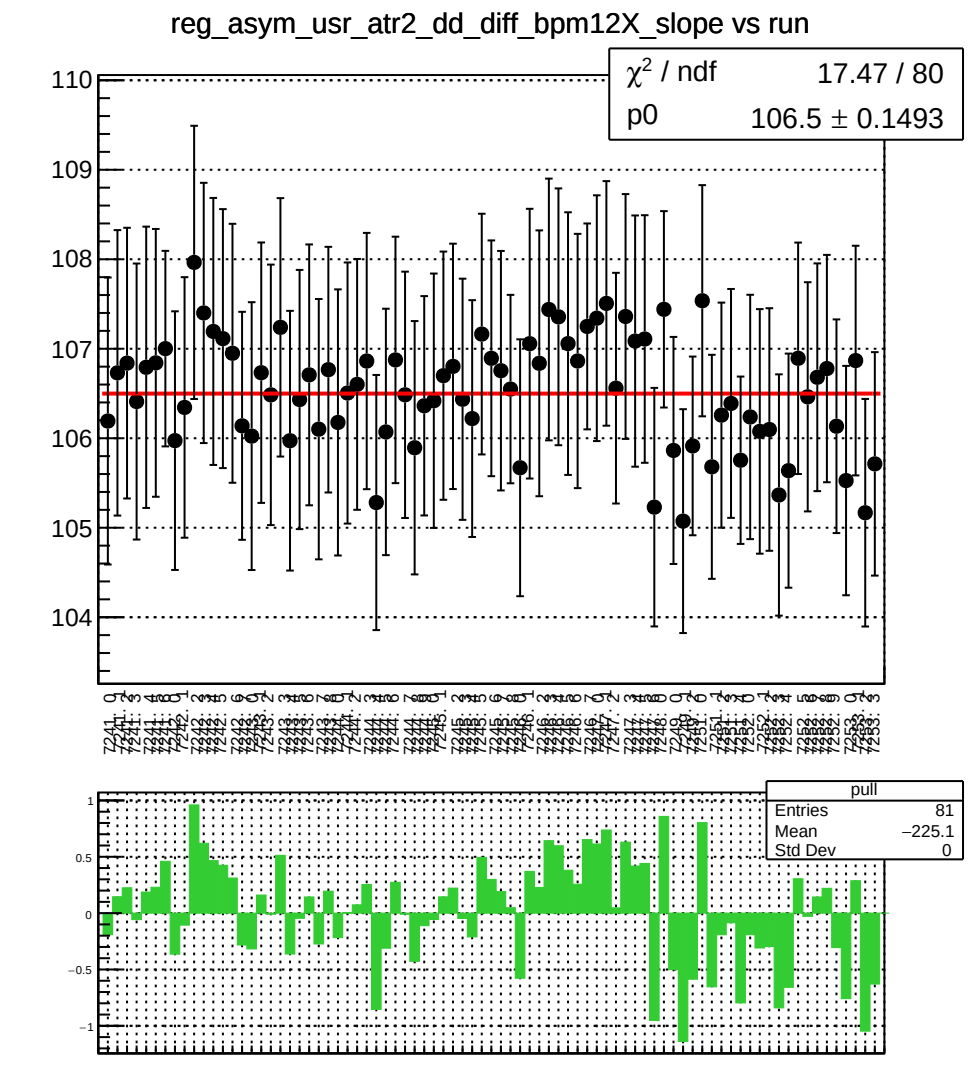

pull1D
Entries 81
Mean 0.00214
Std Dev 0.3252

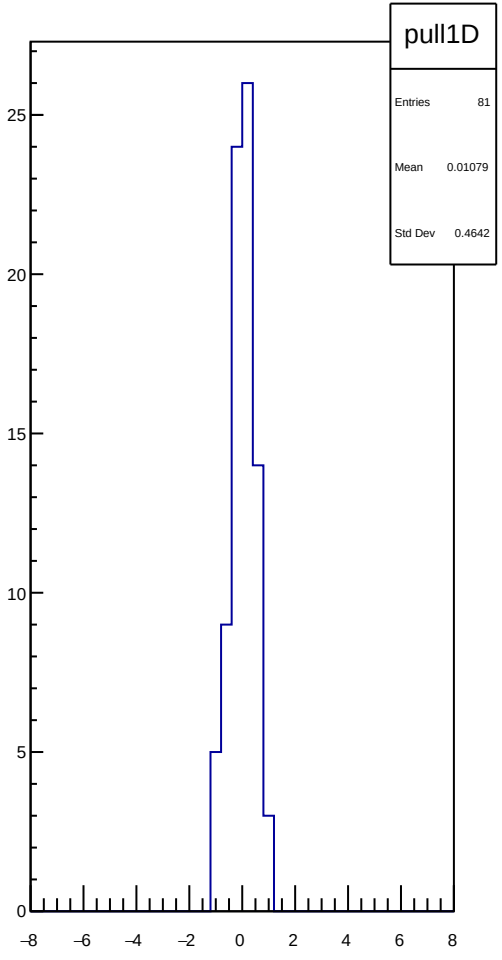

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.4 / 80
p0 −228.8 ± 4.241
pull
Entries 81
Mean −1325
Std Dev 0

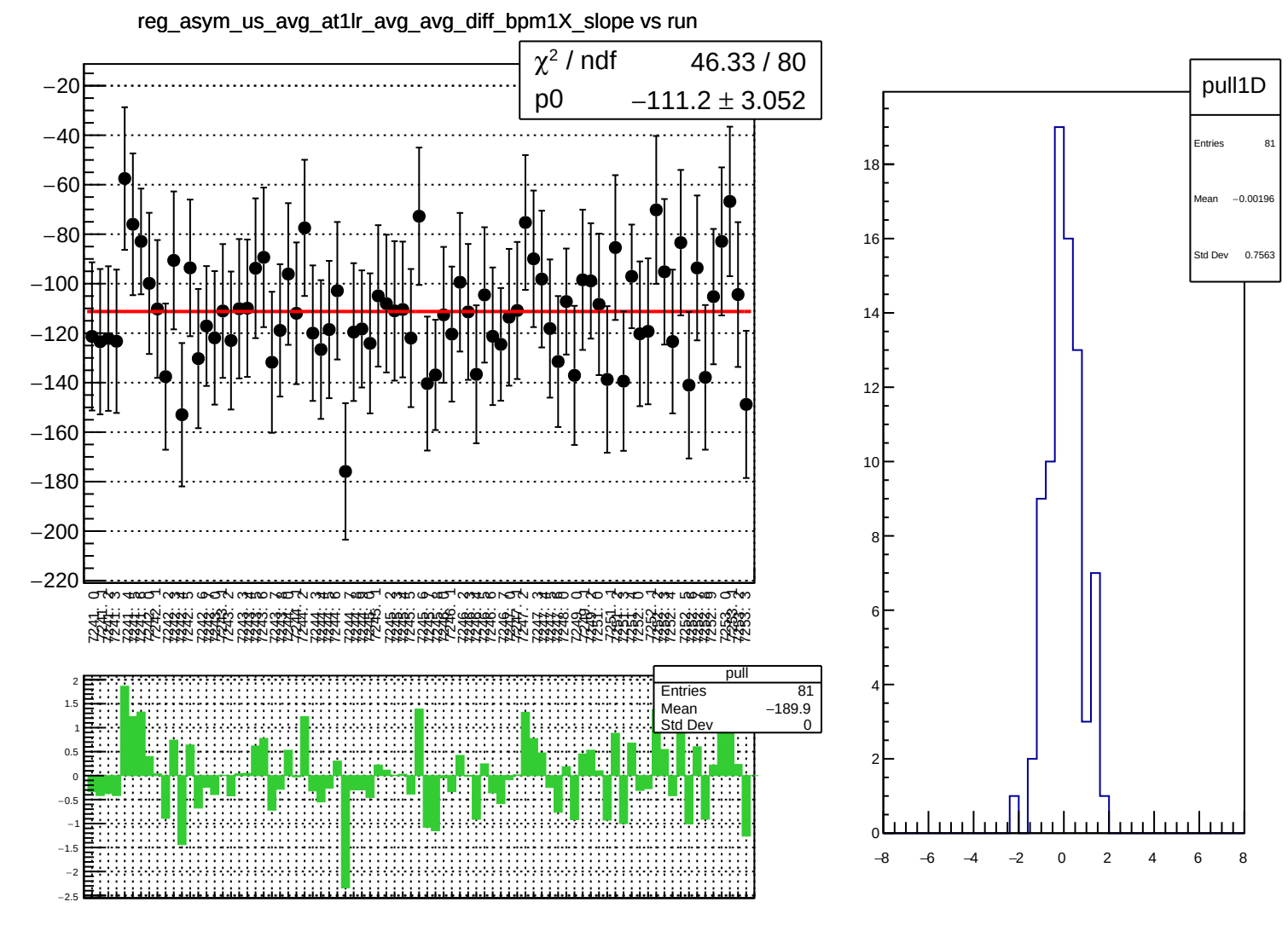

pull1D
Entries 81
Mean −0.001657
Std Dev 0.3583

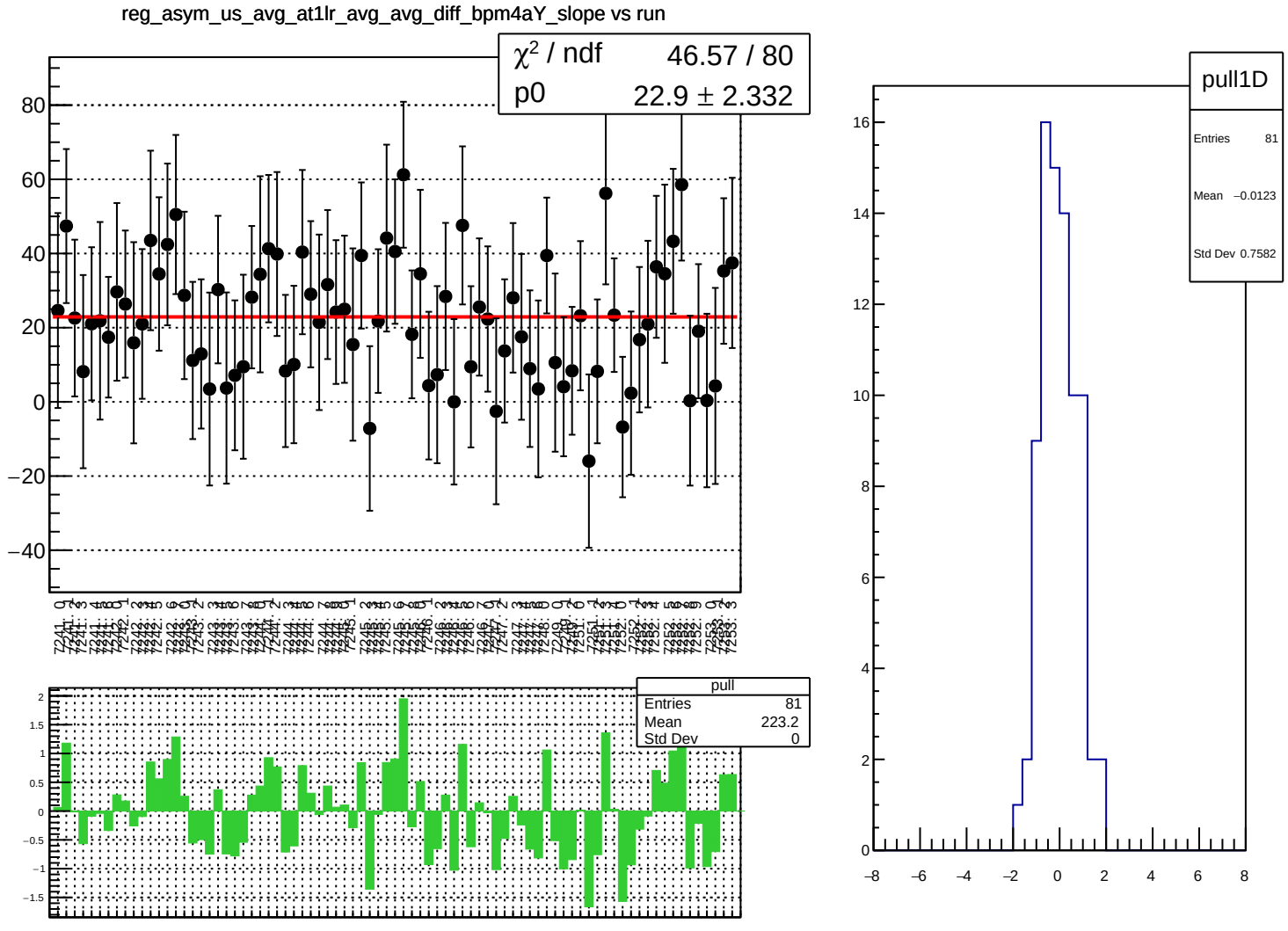

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.154 / 80
p0 −42.46 ± 3.341
pull
Entries 81
Mean 185.3
Std Dev 0

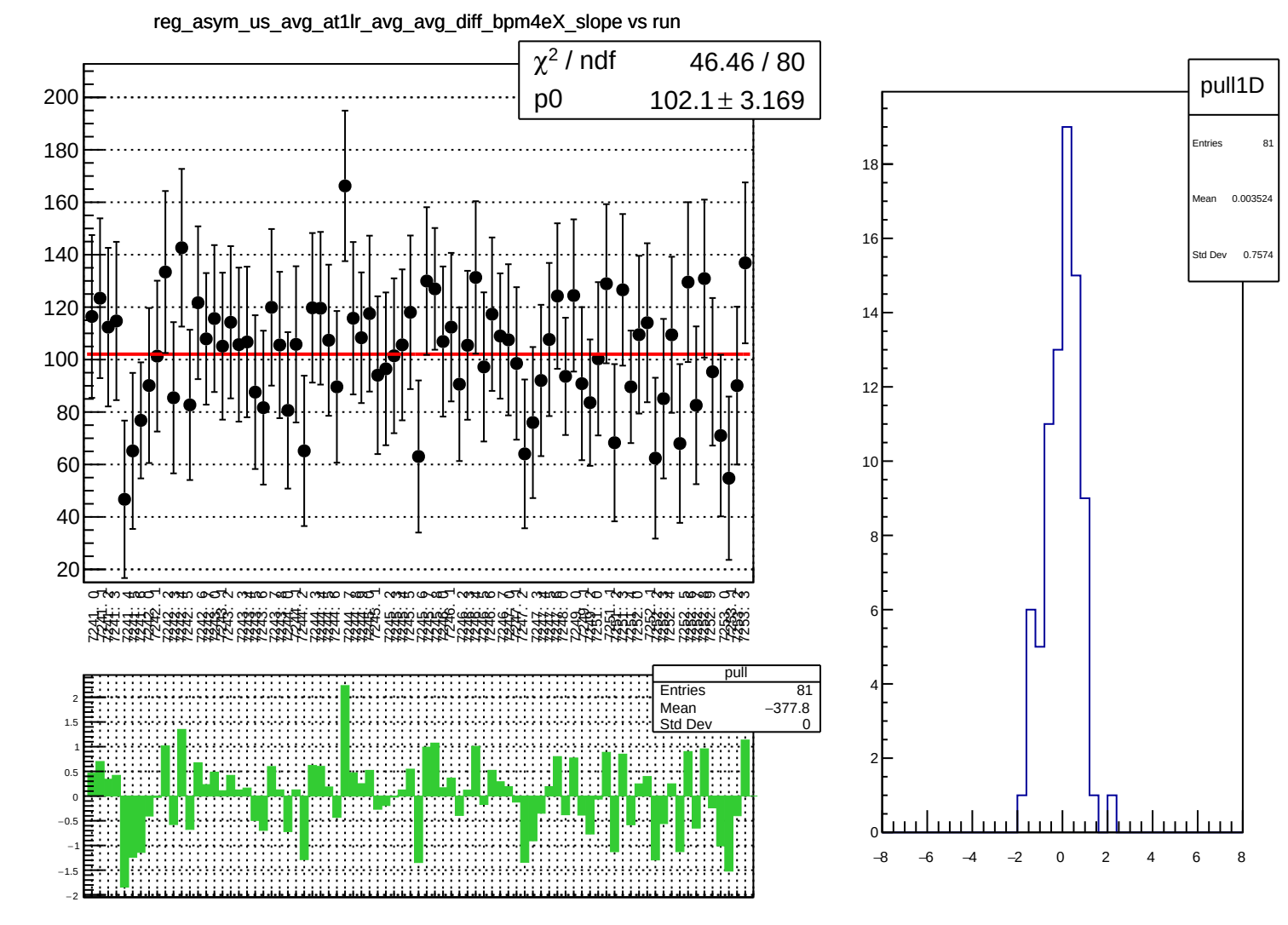

pull1D
Entries 81
Mean −0.004609
Std Dev 0.3172

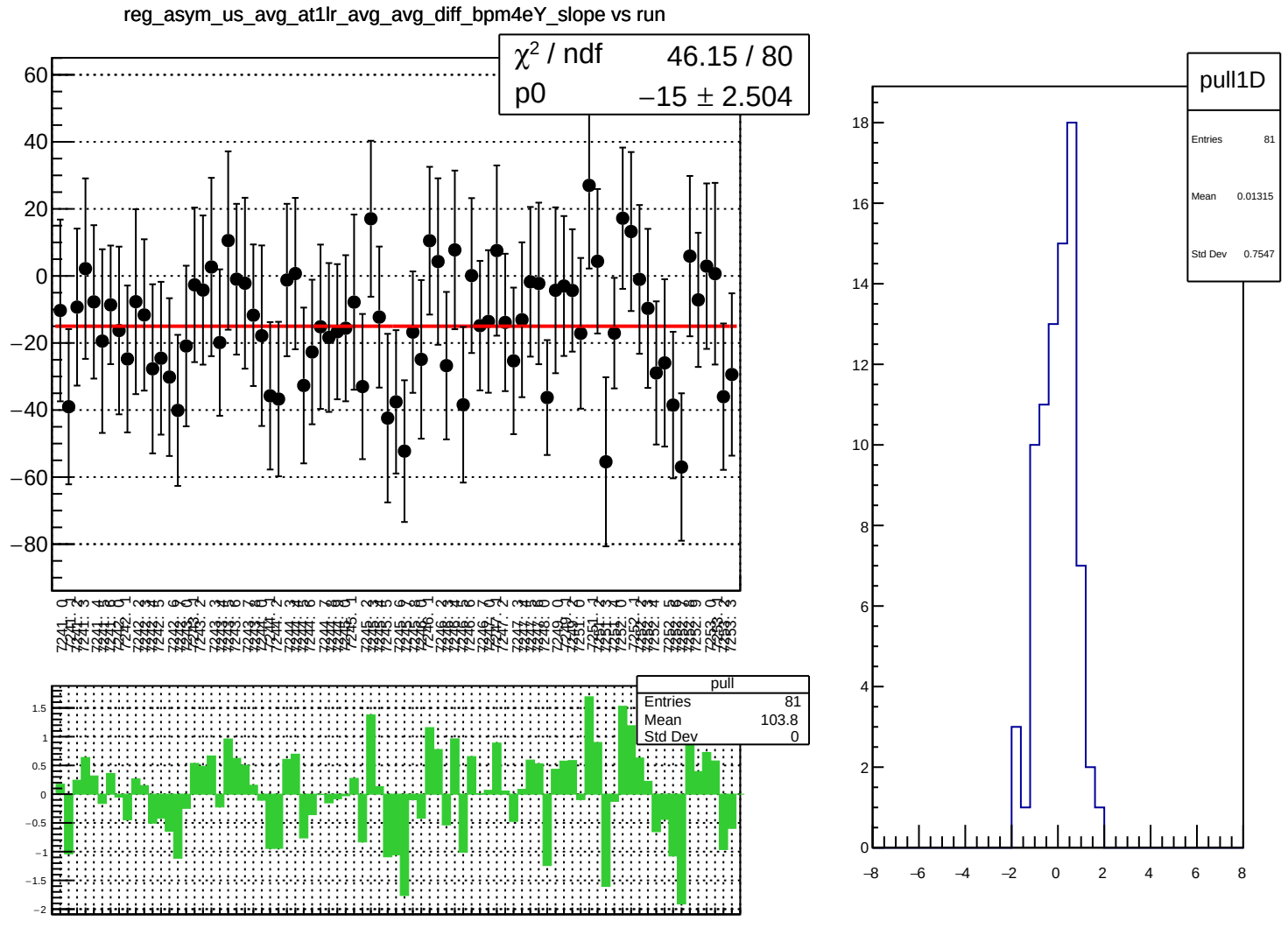

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 17.47 / 80
p0 106.5 ± 0.1493
pull
Entries 81
Mean −225.1
Std Dev 0

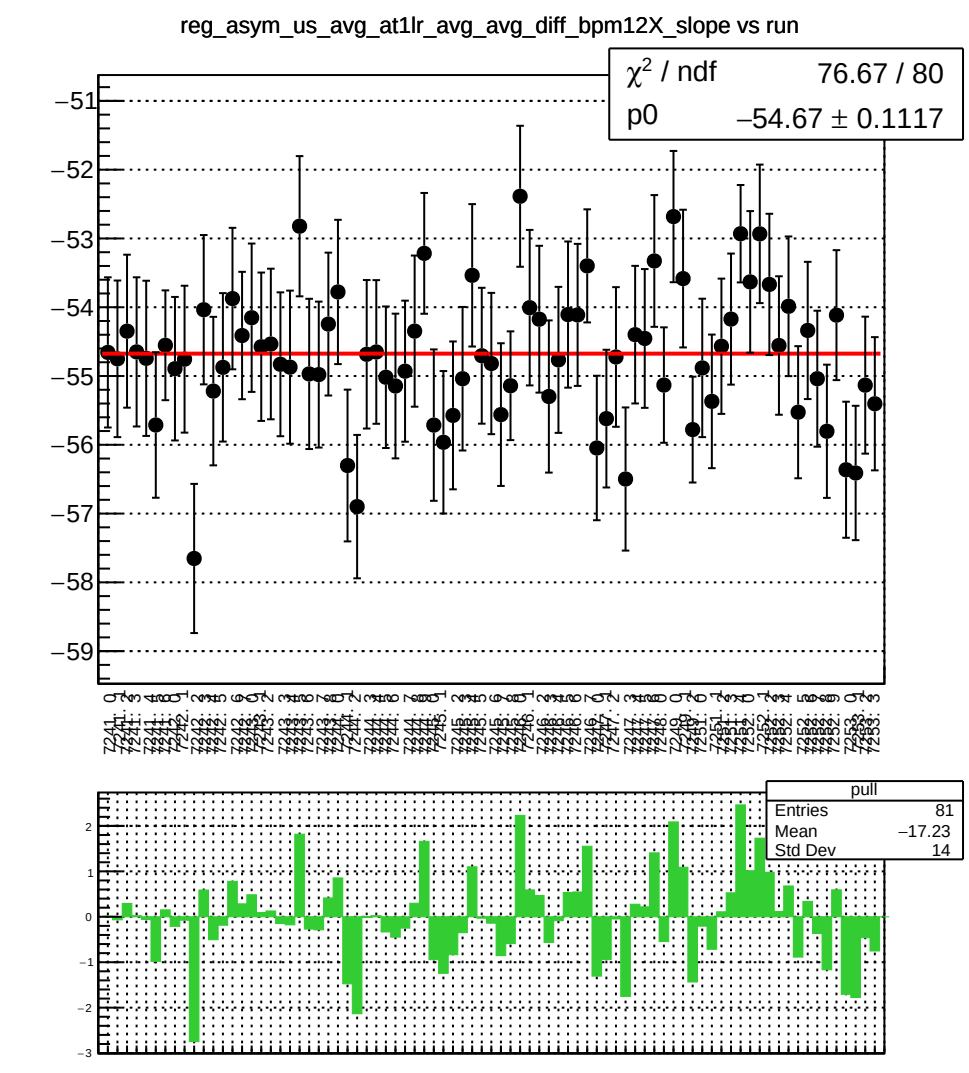

pull1D
Entries 81
Mean 0.01079
Std Dev 0.4642

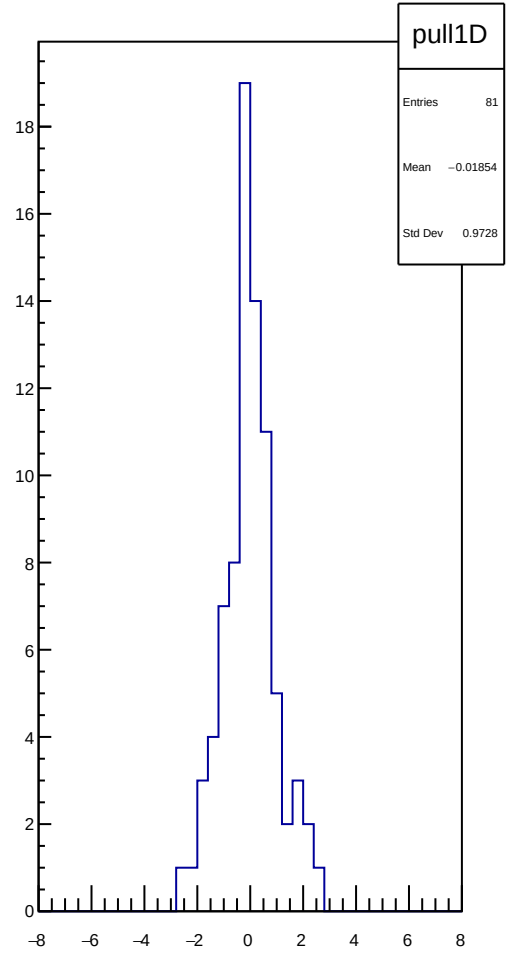

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 46.33 / 80
p0 −111.2 ± 3.052
pull
Entries 81
Mean −189.9
Std Dev 0
pull1D
Entries 81
Mean −0.00196
Std Dev 0.7563

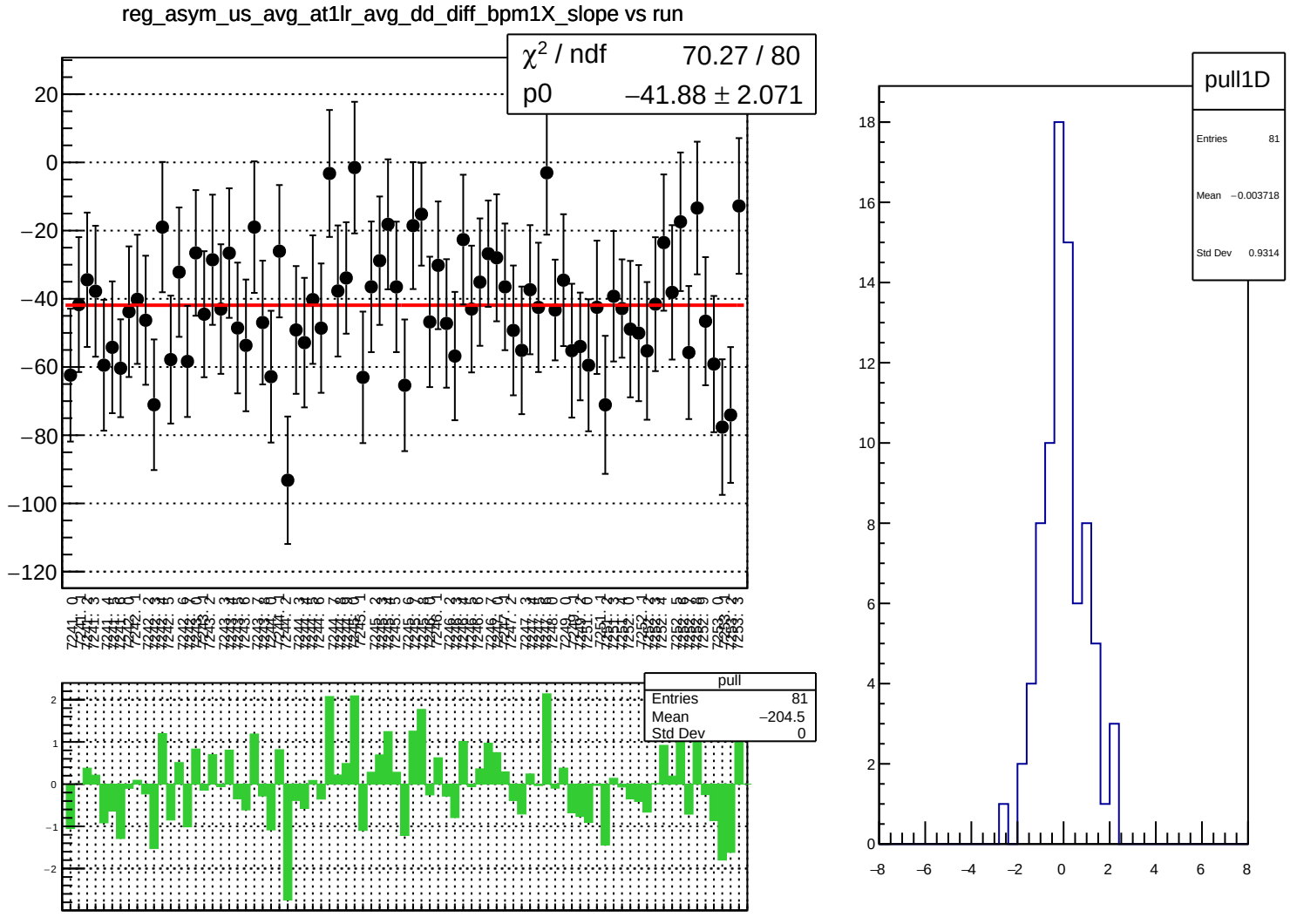

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 46.57 / 80
p0 22.9 ± 2.332
pull
Entries 81
Mean 223.2
Std Dev 0
pull1D
Entries 81
Mean −0.0123
Std Dev 0.7582

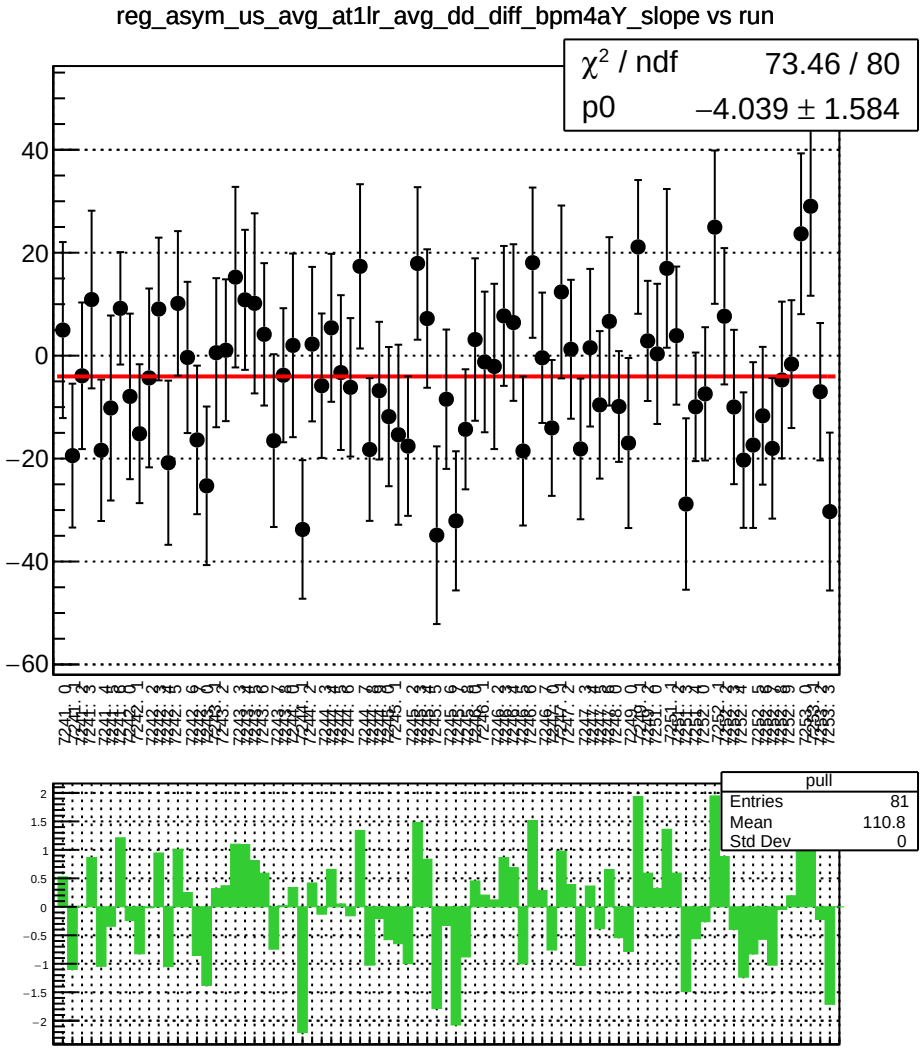

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 46.46 / 80
p0 102.1 ± 3.169
pull
Entries 81
Mean −377.8
Std Dev 0
pull1D
Entries 81
Mean 0.003524
Std Dev 0.7574

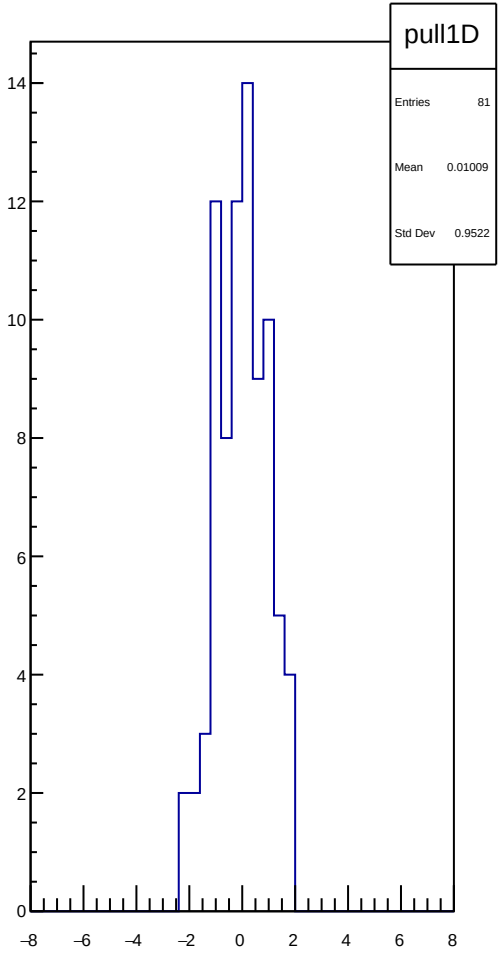

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 46.15 / 80
p0 −15 ± 2.504
pull
Entries 81
Mean 103.8
Std Dev 0
pull1D
Entries 81
Mean 0.01315
Std Dev 0.7547

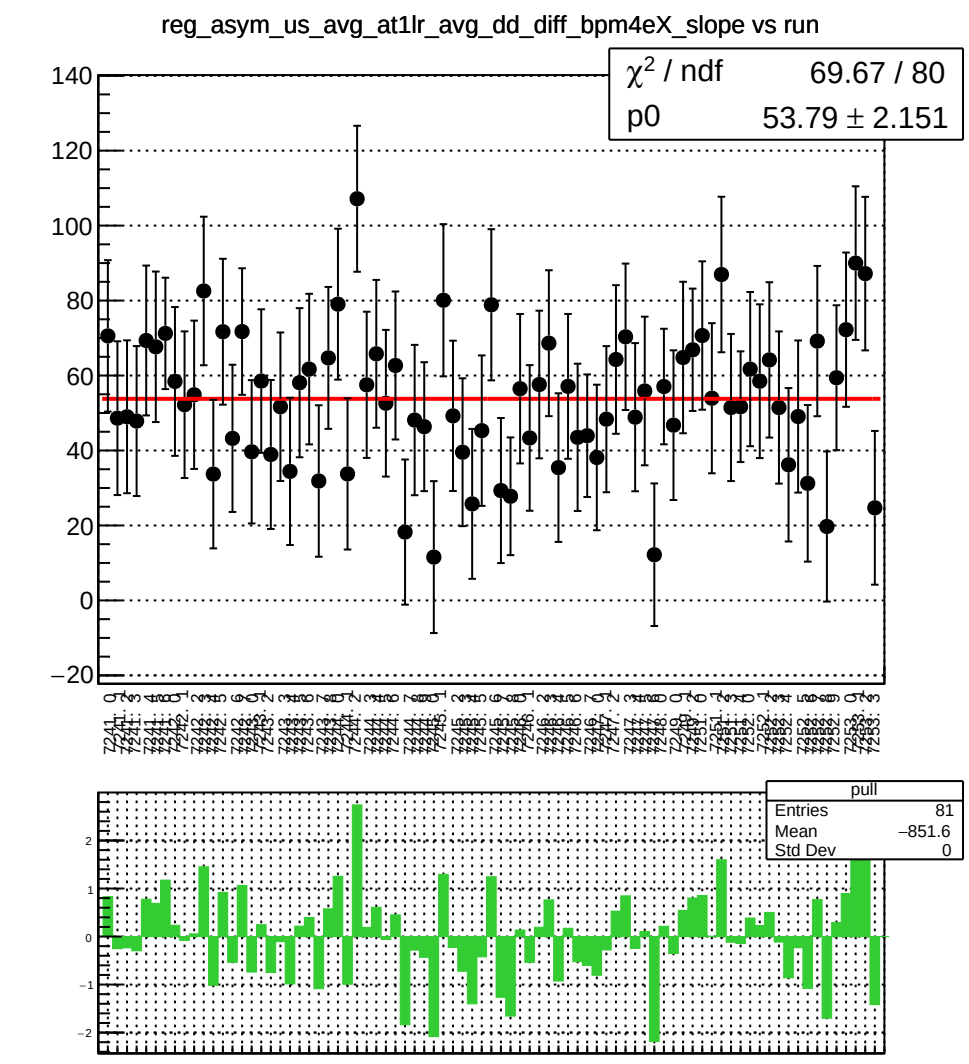

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 76.67 / 80
p0 −54.67 ± 0.1117
pull
Entries 81
Mean −17.23
Std Dev 14

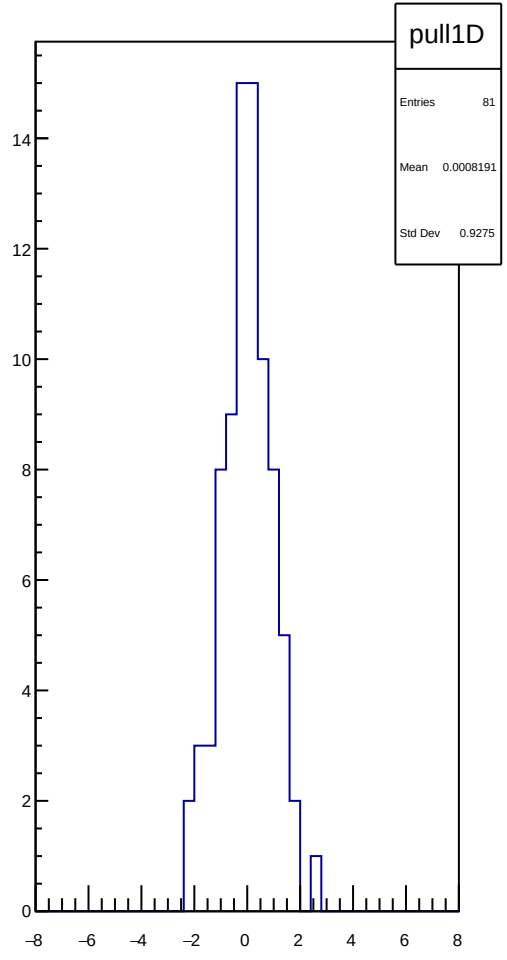

pull1D
Entries 81
Mean −0.01854
Std Dev 0.9728

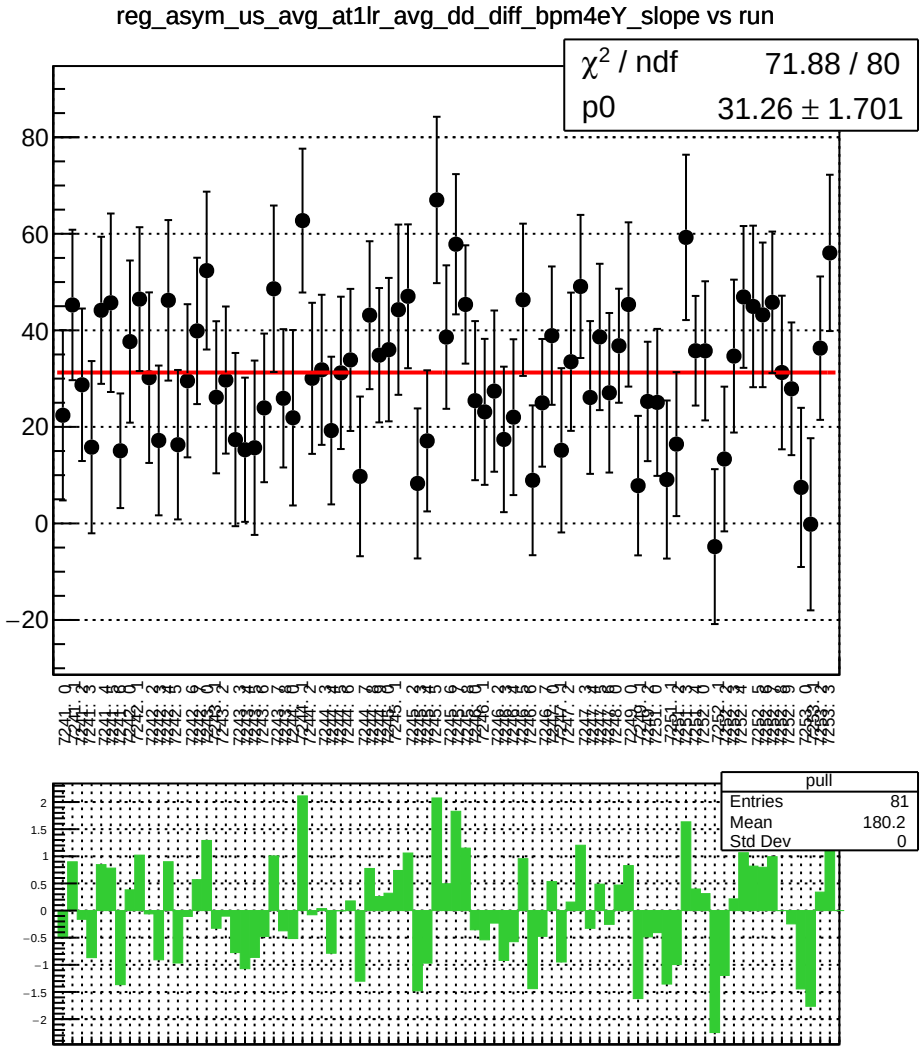

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 70.27 / 80
p0 −41.88 ± 2.071
pull
Entries 81
Mean −204.5
Std Dev 0
pull1D
Entries 81
Mean −0.003718
Std Dev 0.9314

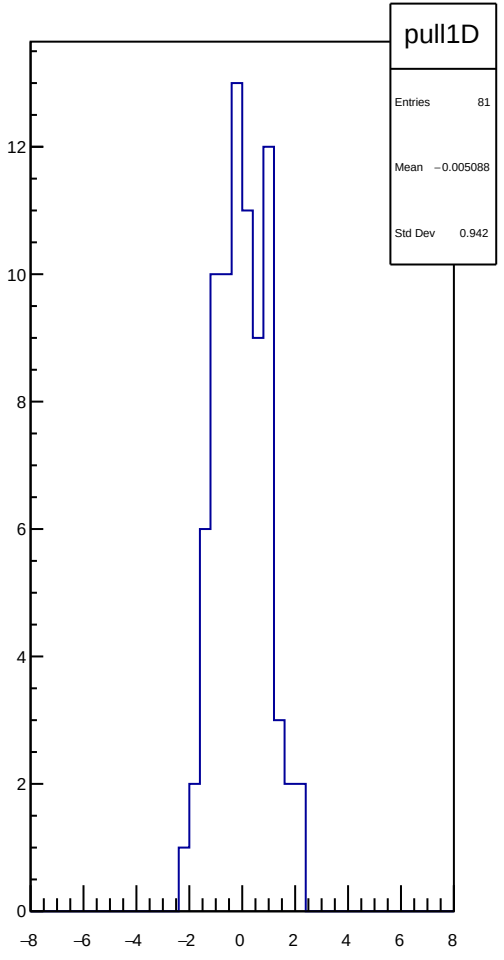

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 73.46 / 80
p0 −4.039 ± 1.584
pull
Entries 81
Mean 110.8
Std Dev 0

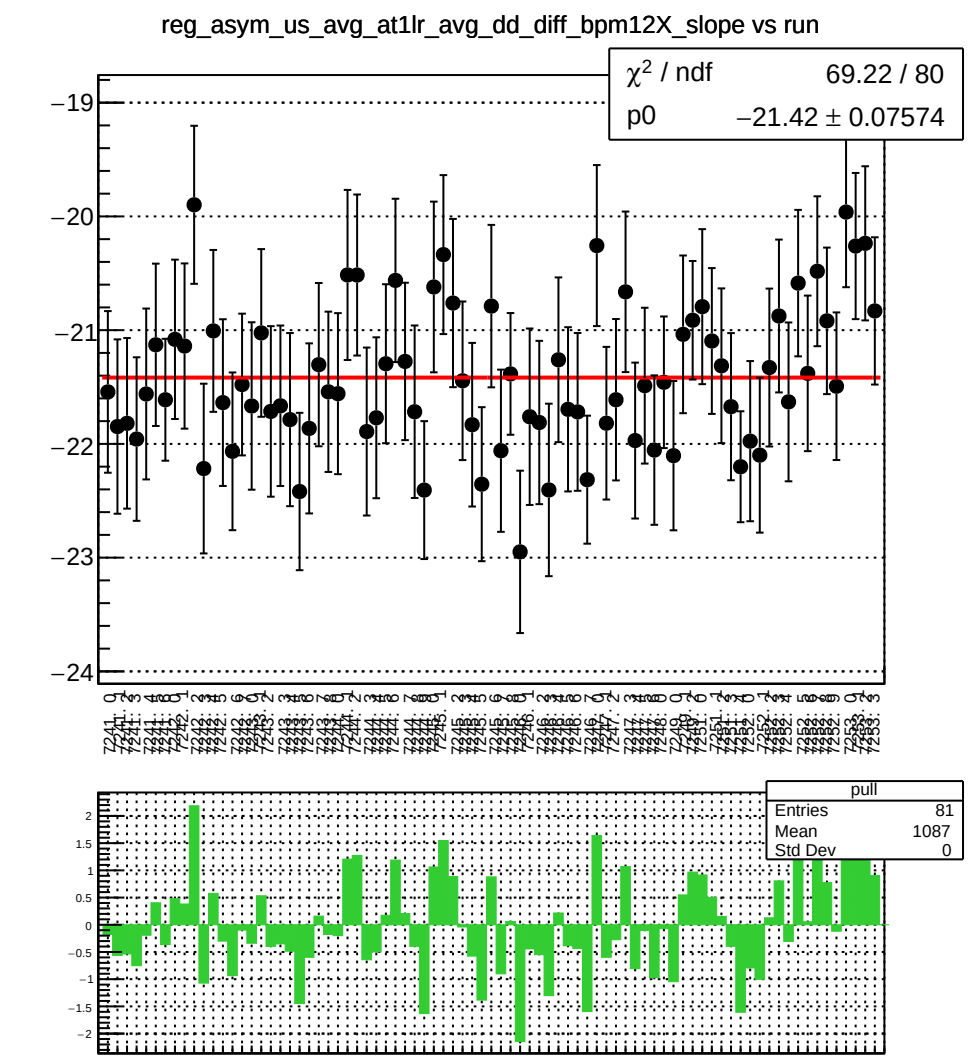

pull1D
Entries 81
Mean 0.01009
Std Dev 0.9522

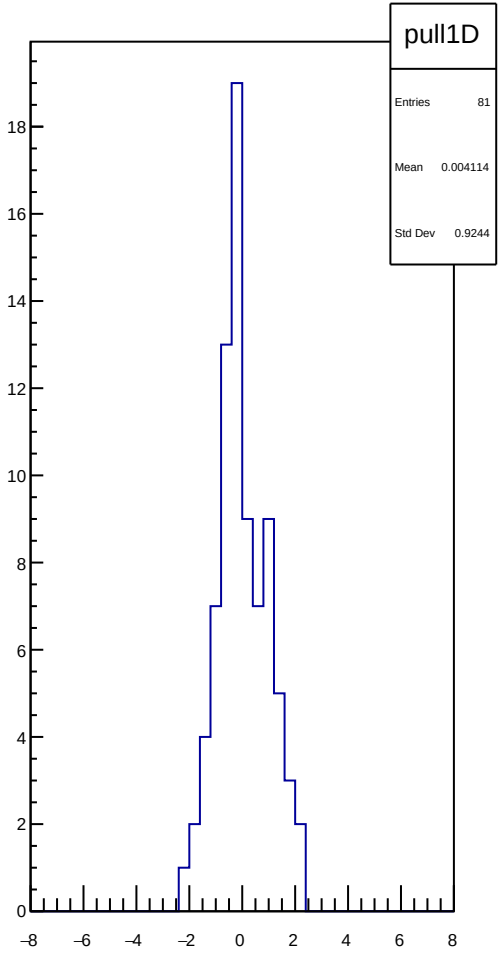

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 69.67 / 80
p0 53.79 ± 2.151
pull
Entries 81
Mean −851.6
Std Dev 0

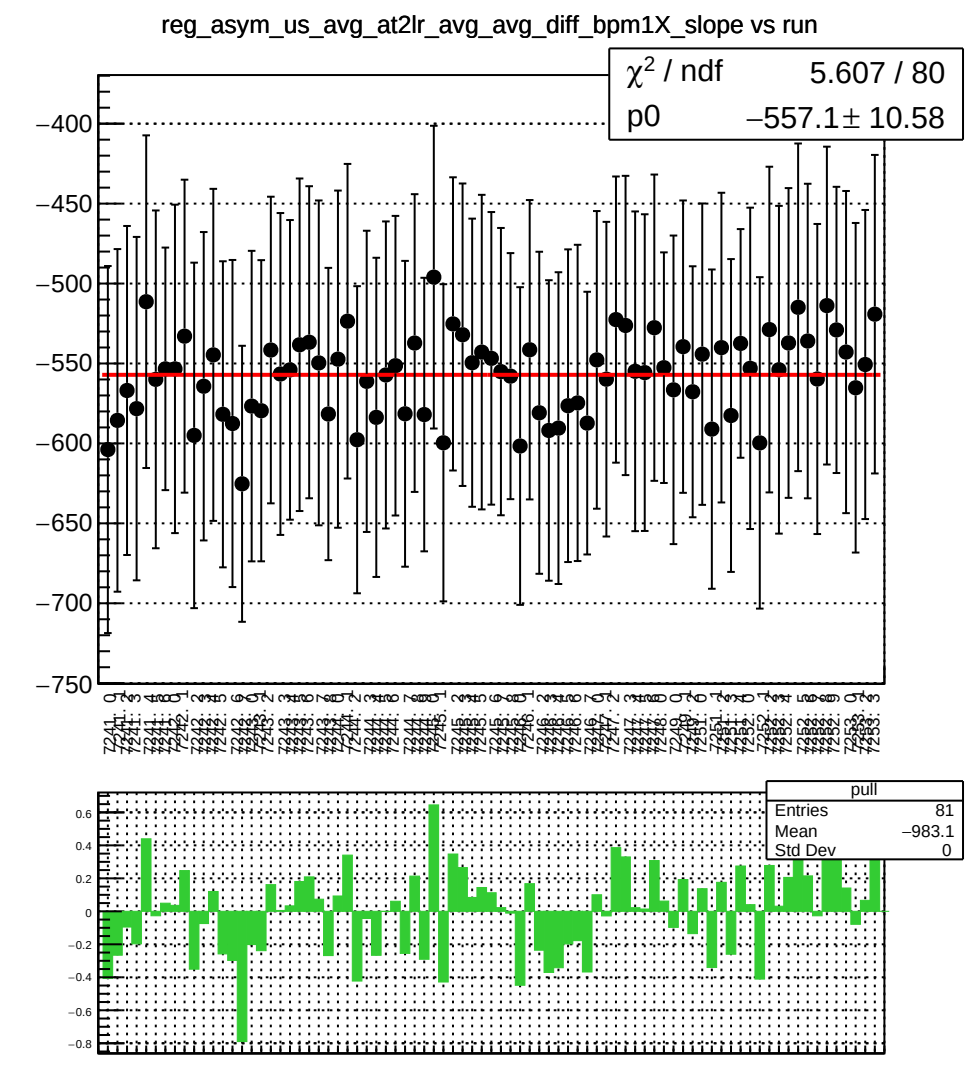

pull1D
Entries 81
Mean 0.0008191
Std Dev 0.9275

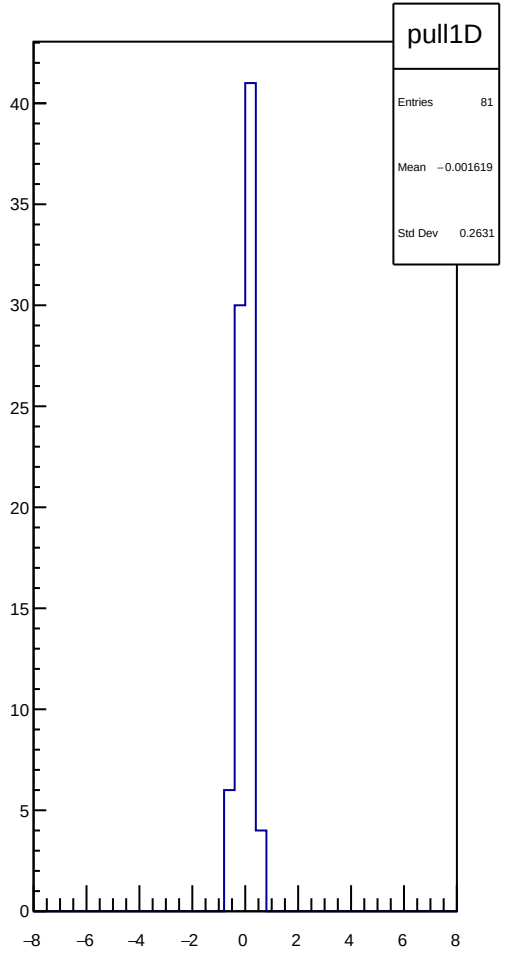

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 71.88 / 80
p0 31.26 ± 1.701
pull
Entries 81
Mean 180.2
Std Dev 0

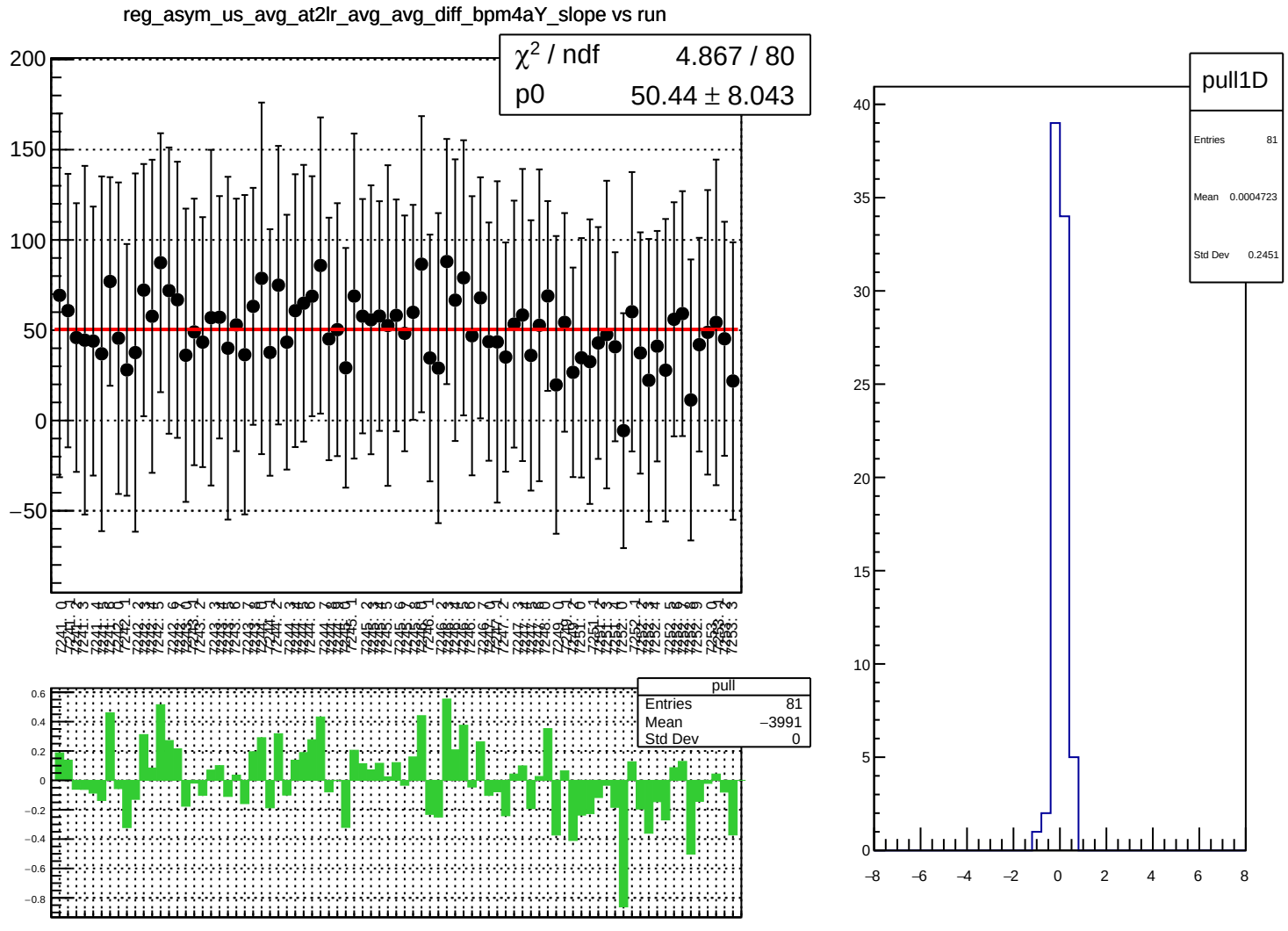

pull1D
Entries 81
Mean −0.005088
Std Dev 0.942

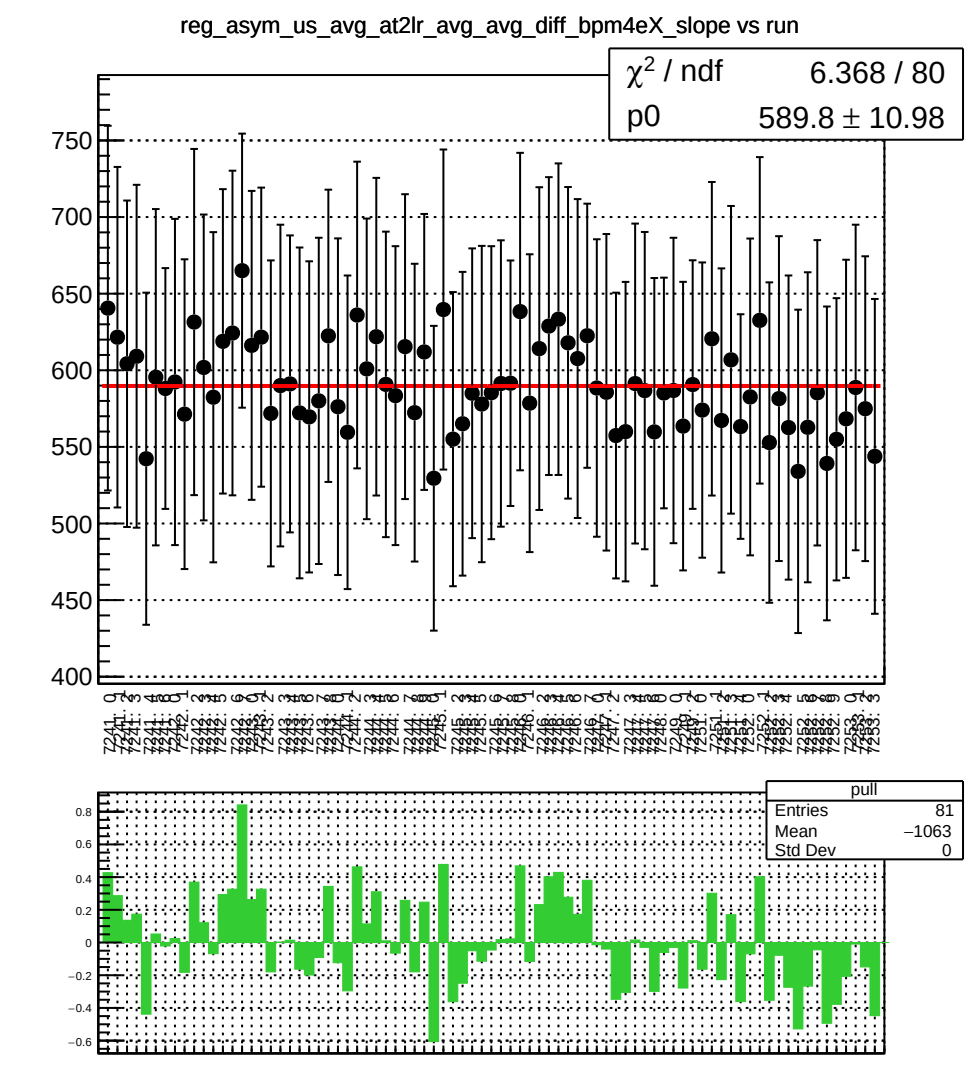

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 69.22 / 80
p0 −21.42 ± 0.07574
pull
Entries 81
Mean 1087
Std Dev 0

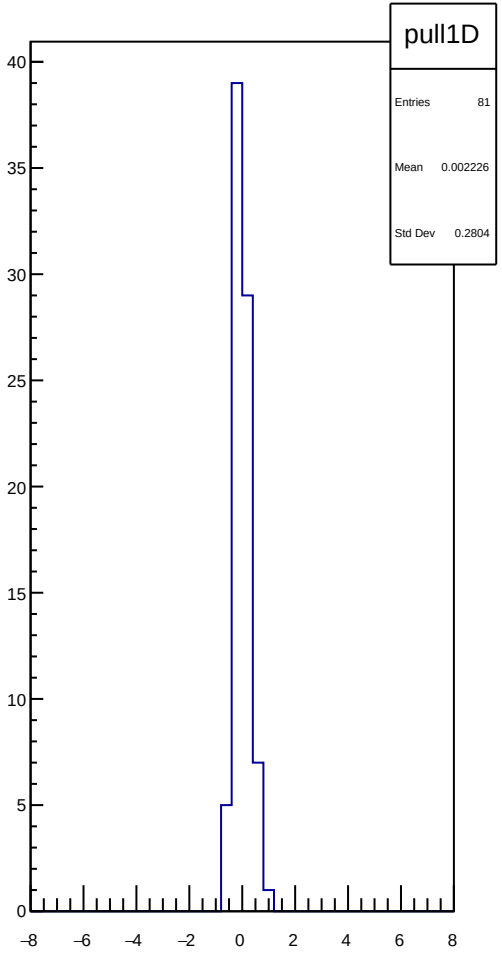

pull1D
Entries 81
Mean 0.004114
Std Dev 0.9244

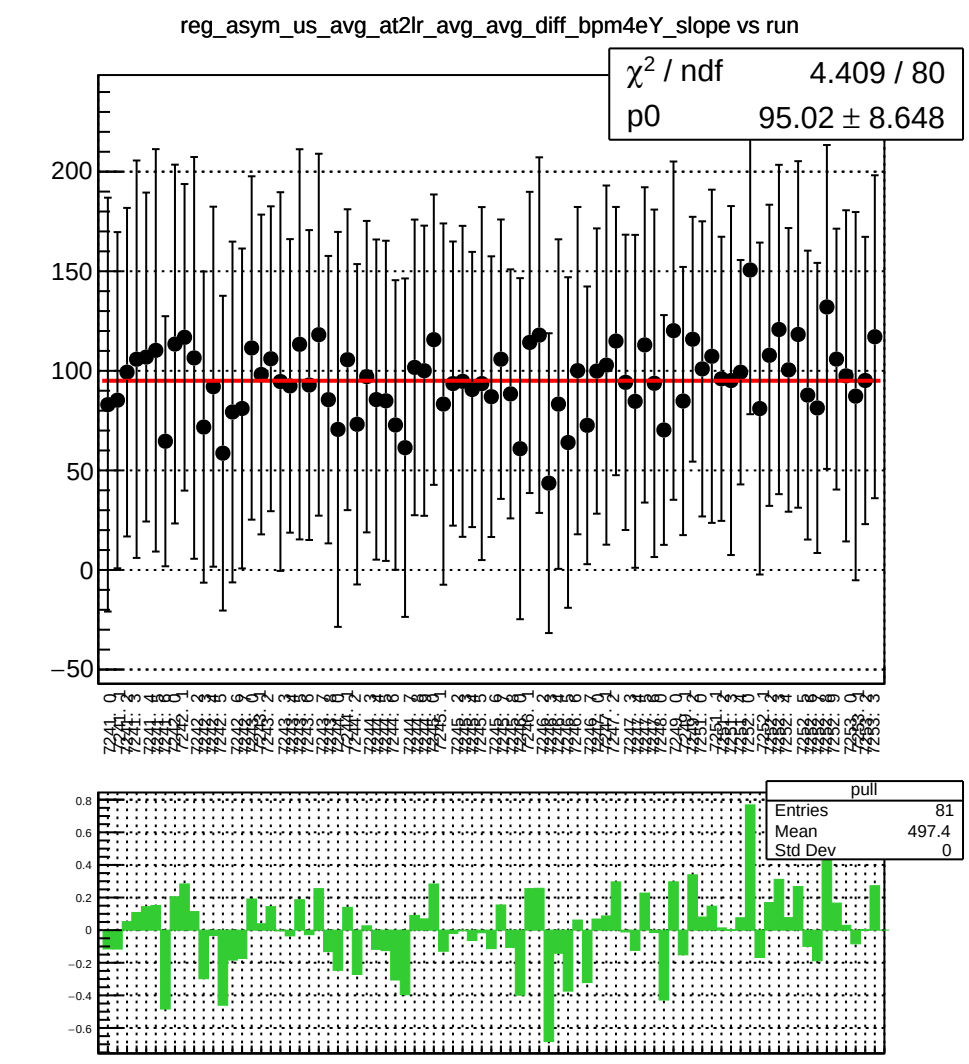

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 5.607 / 80
p0 −557.1± 10.58
pull
Entries 81
Mean −983.1
Std Dev 0

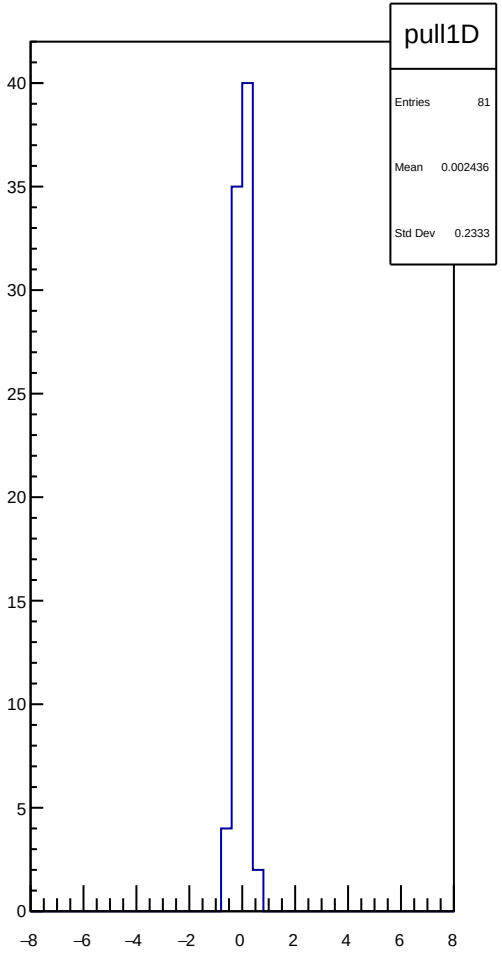

pull1D
Entries 81
Mean −0.001619
Std Dev 0.2631

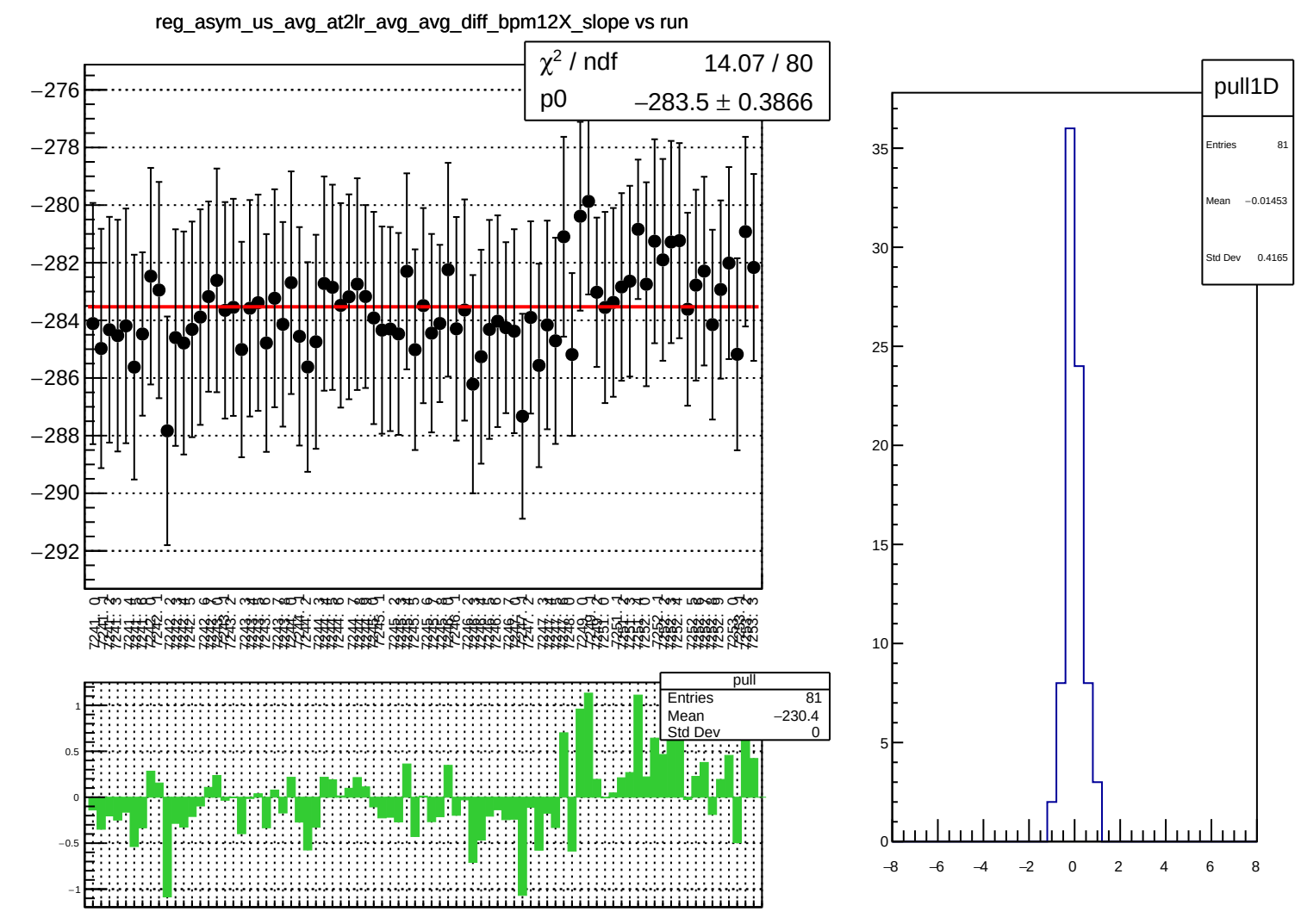

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.867 / 80
p0 50.44 ± 8.043
pull
Entries 81
Mean −3991
Std Dev 0
pull1D
Entries 81
Mean 0.0004723
Std Dev 0.2451

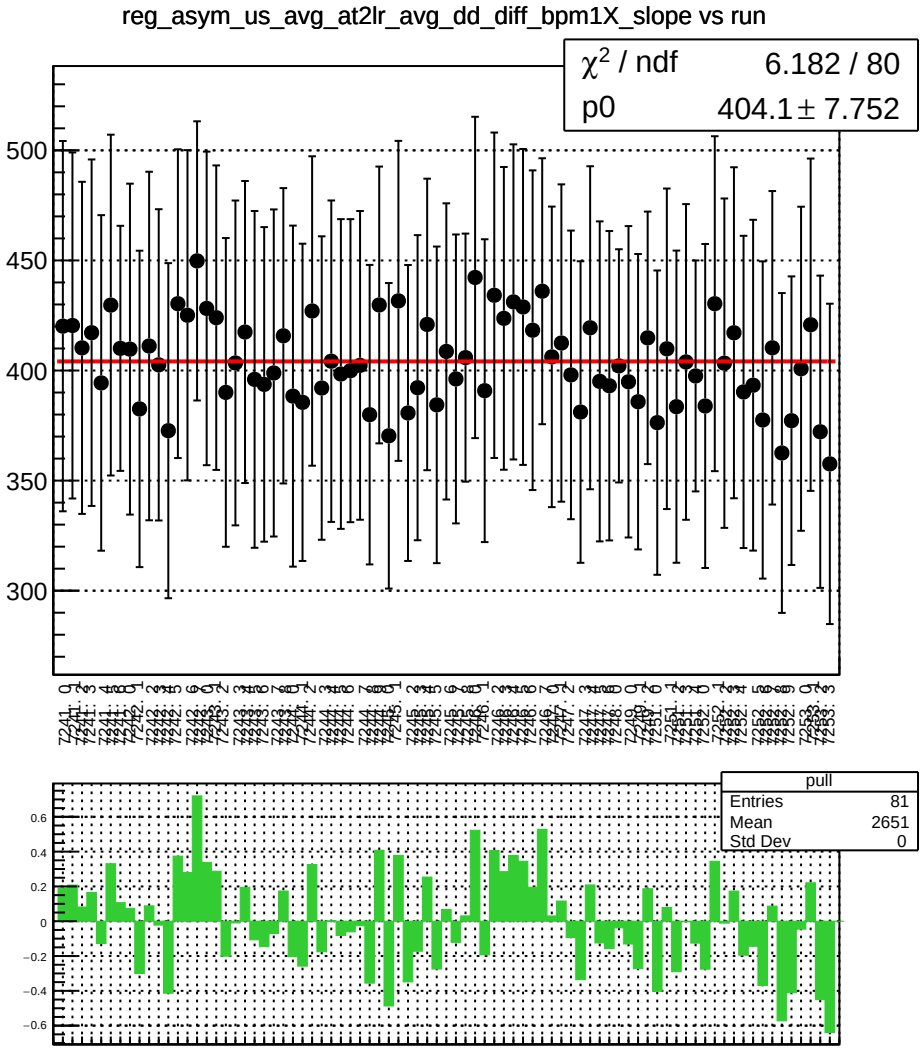

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.368 / 80
p0 589.8 ± 10.98
pull
Entries 81
Mean −1063
Std Dev 0

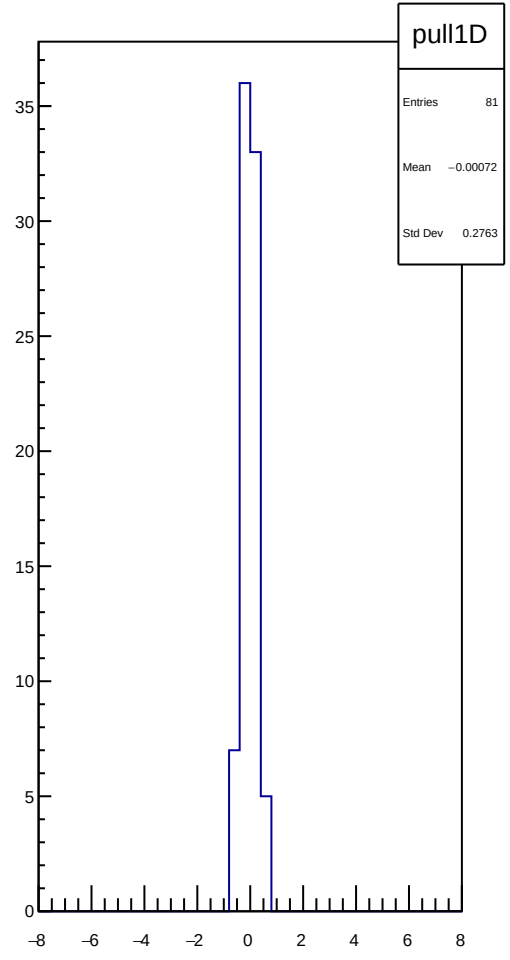

pull1D
Entries 81
Mean 0.002226
Std Dev 0.2804

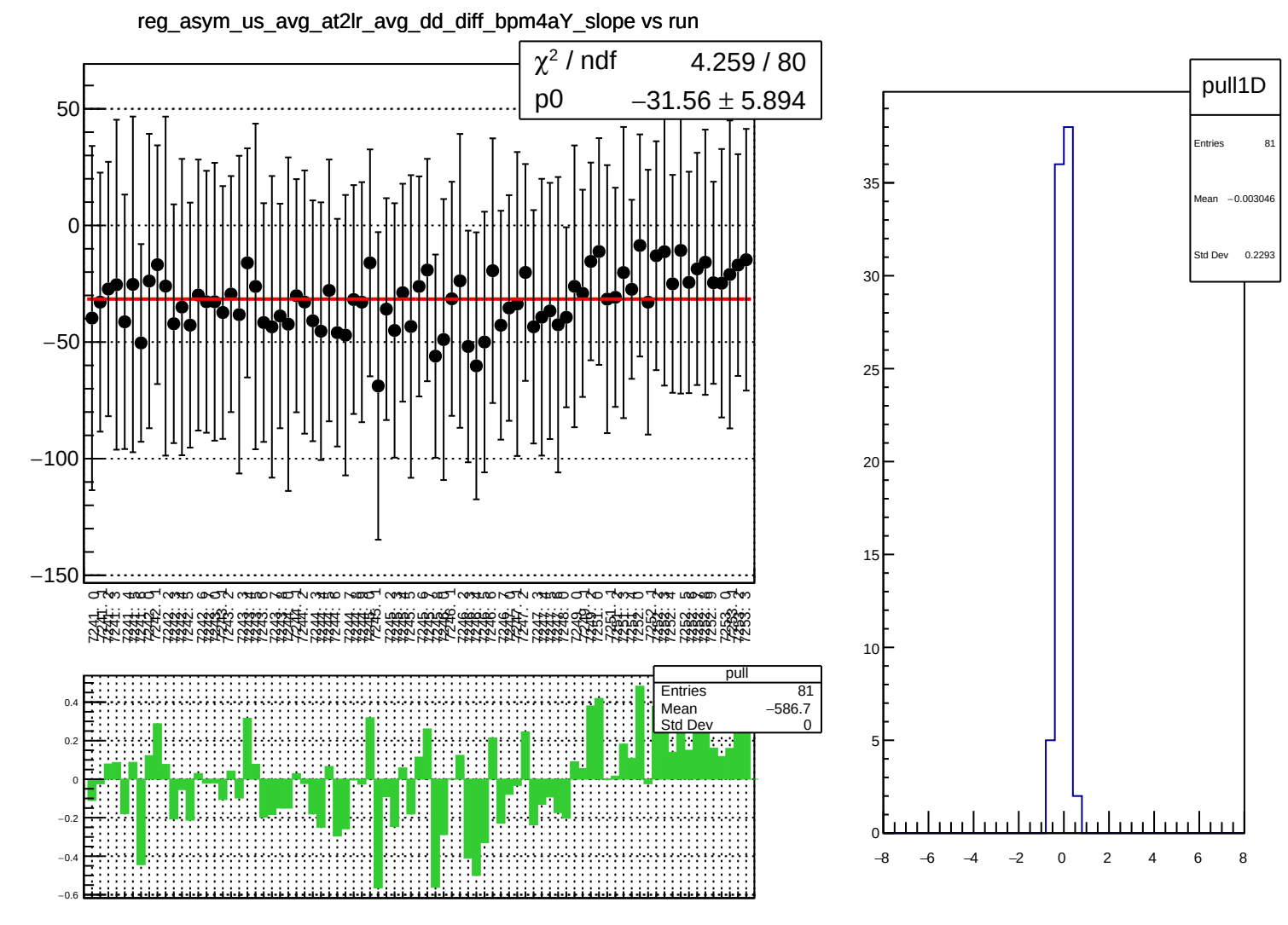

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.409 / 80
p0 95.02 ± 8.648
pull
Entries 81
Mean 497.4
Std Dev 0

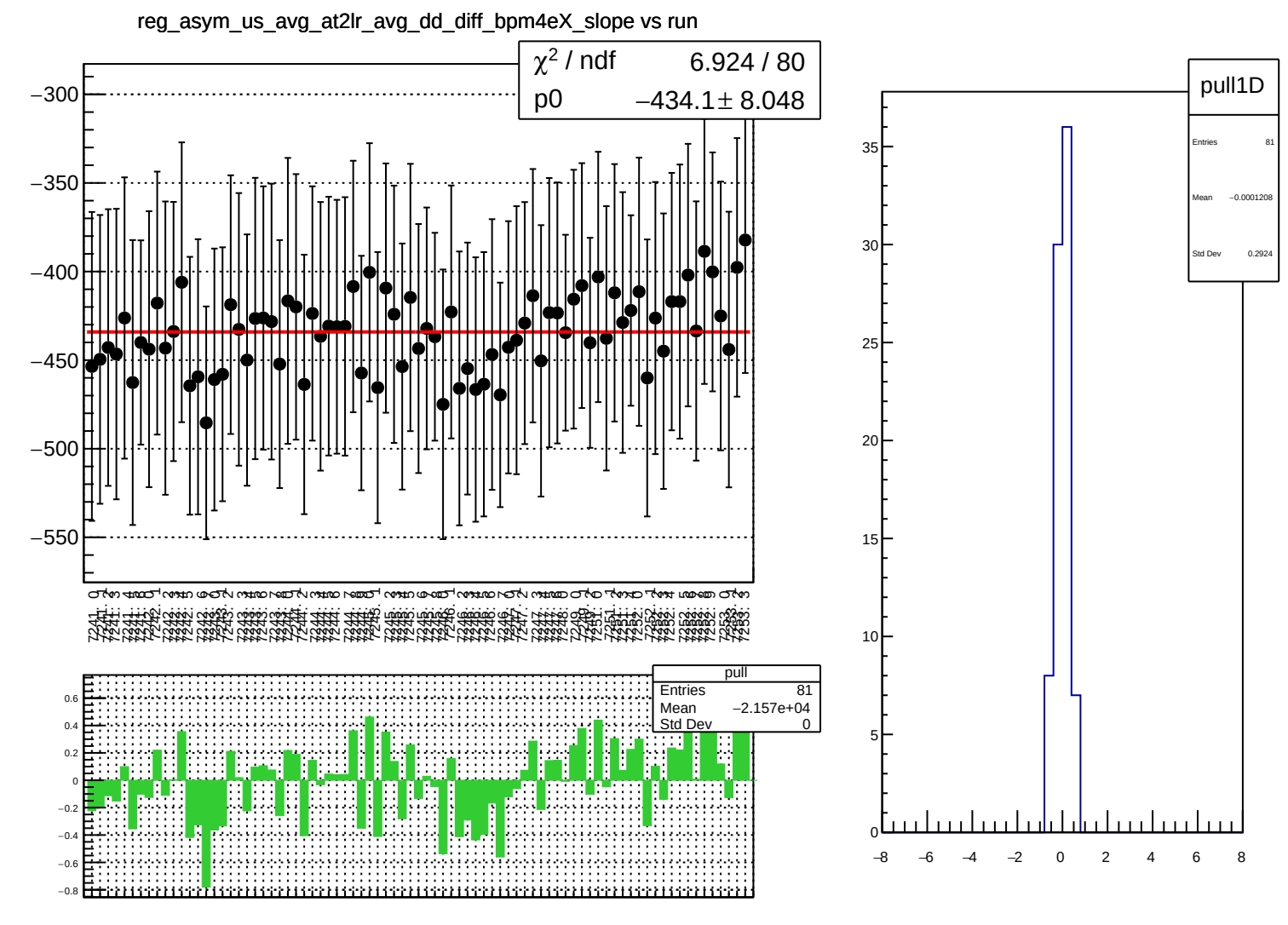

pull1D
Entries 81
Mean 0.002436
Std Dev 0.2333

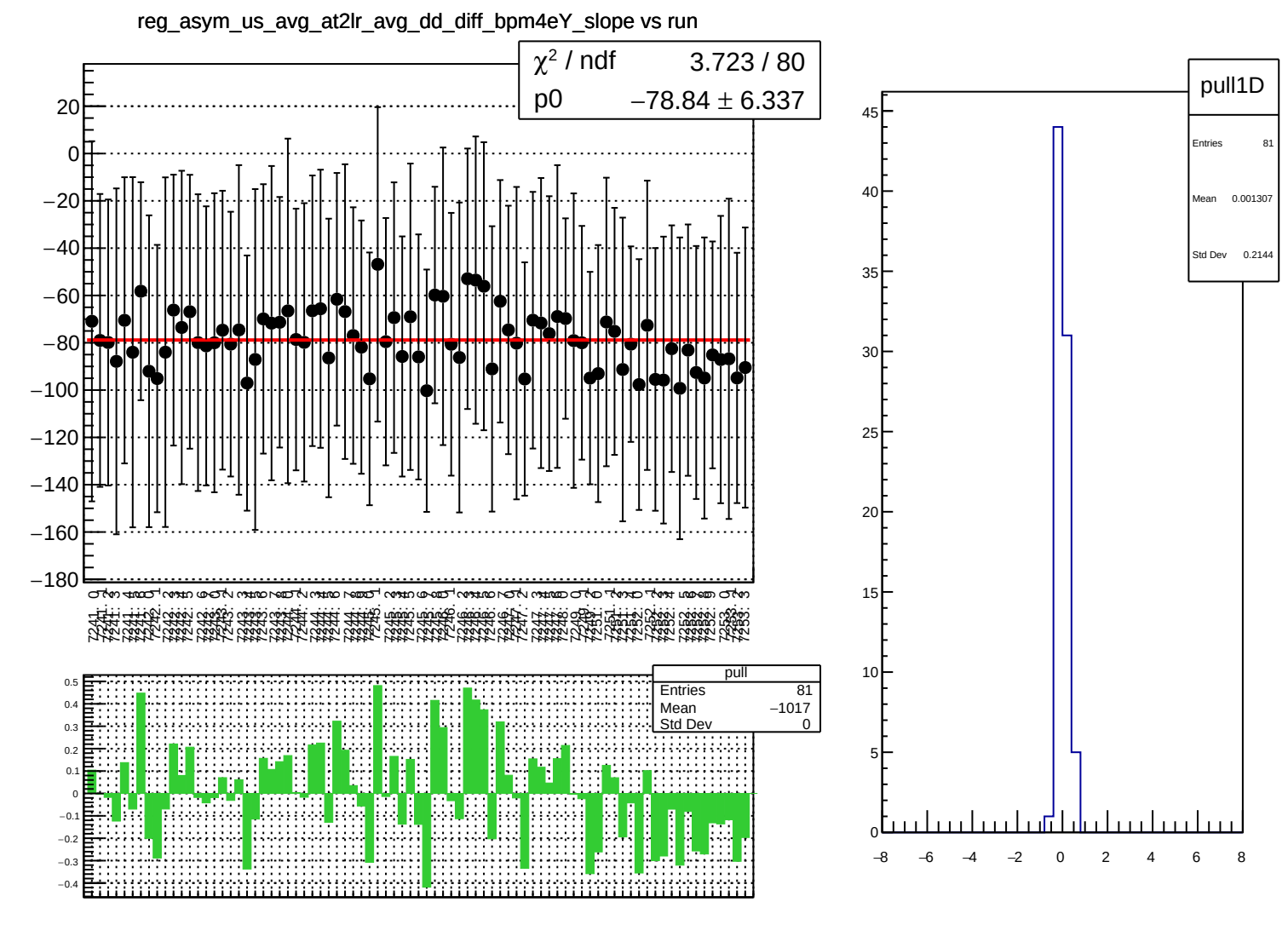

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 14.07 / 80
p0 −283.5 ± 0.3866
pull
Entries 81
Mean −230.4
Std Dev 0
pull1D
Entries 81
Mean −0.01453
Std Dev 0.4165

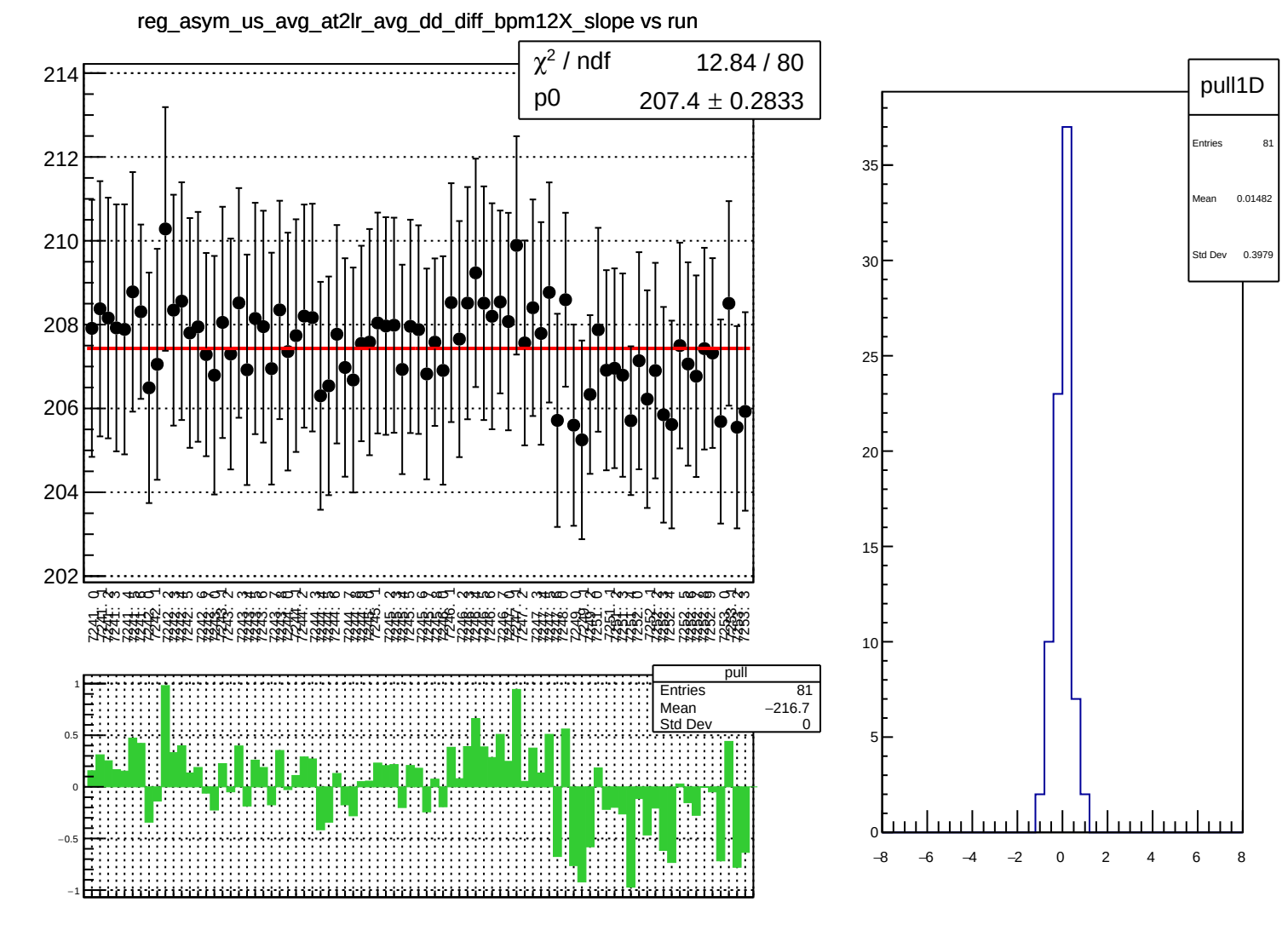

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 6.182 / 80
p0 404.1 ± 7.752
pull
Entries 81
Mean 2651
Std Dev 0

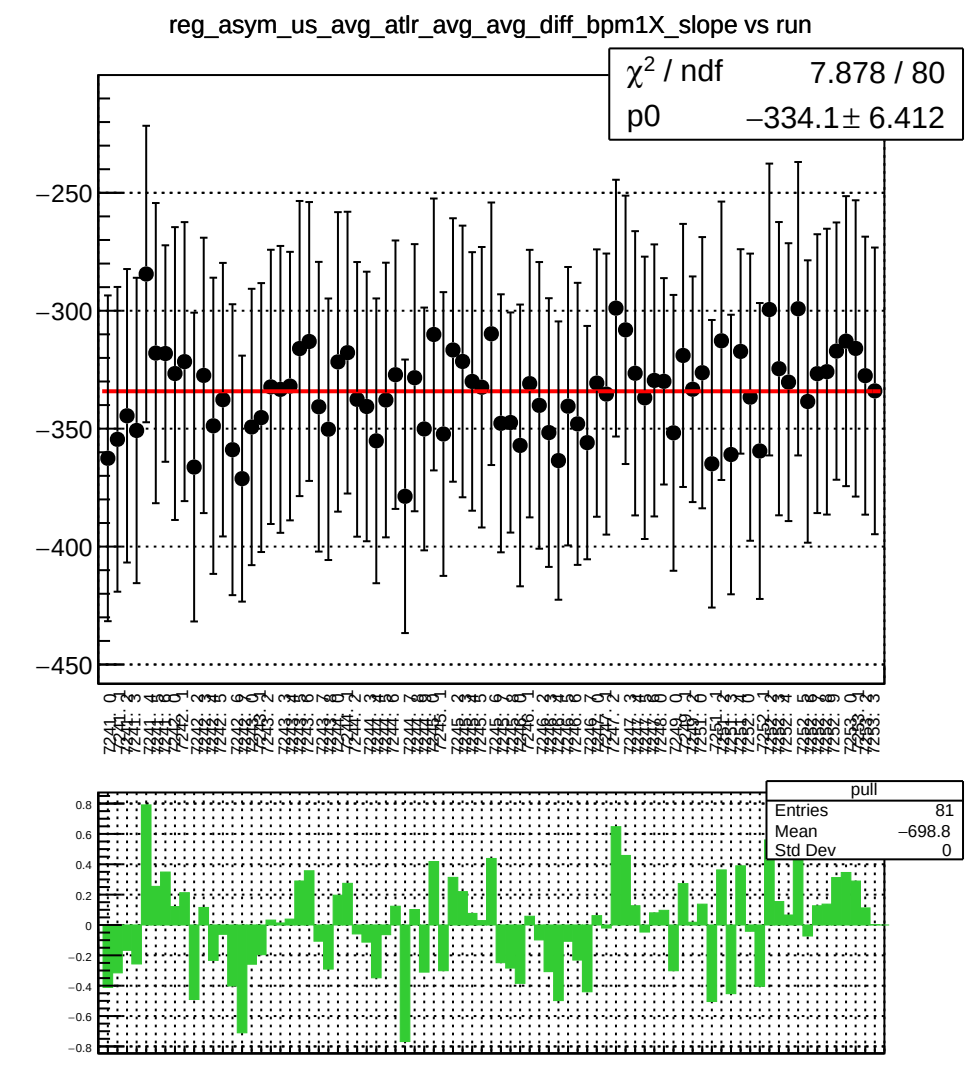

pull1D
Entries 81
Mean −0.00072
Std Dev 0.2763

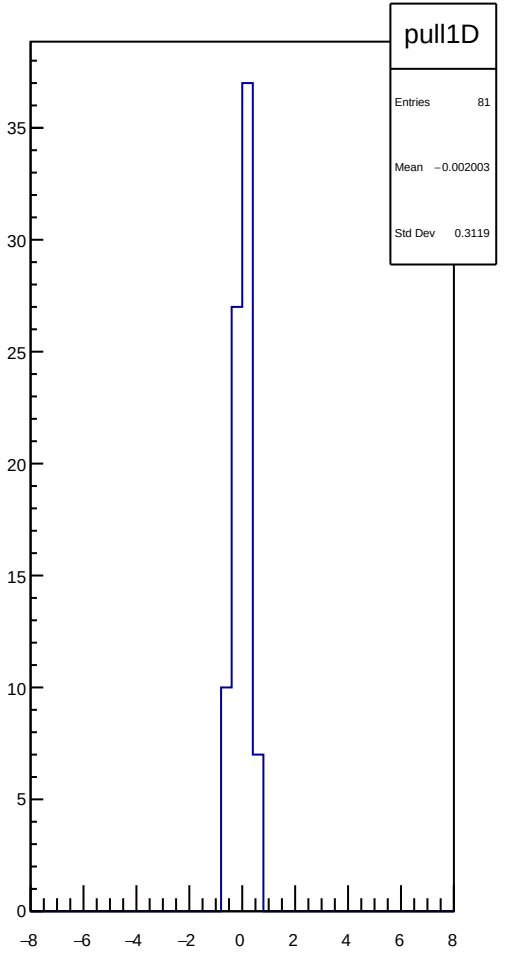

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.259 / 80
p0 −31.56 ± 5.894
50
0
−50
−100
−150
pull
Entries 81
Mean −586.7
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 81
Mean −0.003046
Std Dev 0.2293
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

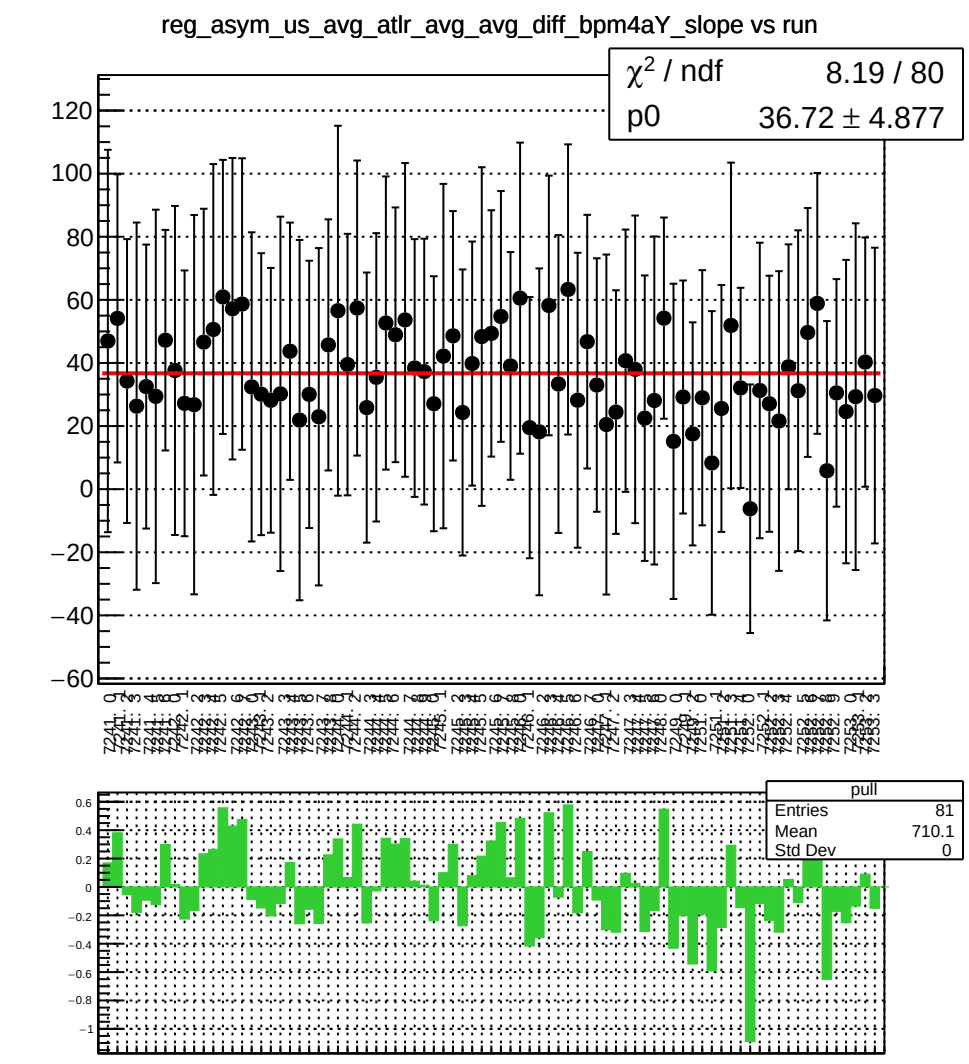

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.924 / 80
p0 −434.1 ± 8.048
−300
−350
−400
−450
−500
−550
pull
Entries 81
Mean −2.157e+04
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 81
Mean −0.0001208
Std Dev 0.2924
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

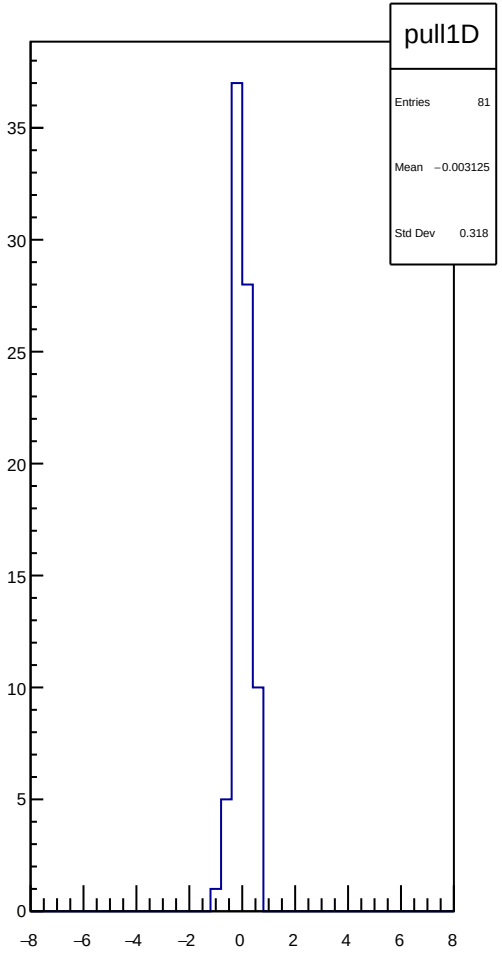

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.723 / 80
p0 −78.84 ± 6.337
pull
Entries 81
Mean −1017
Std Dev 0
pull1D
Entries 81
Mean 0.001307
Std Dev 0.2144

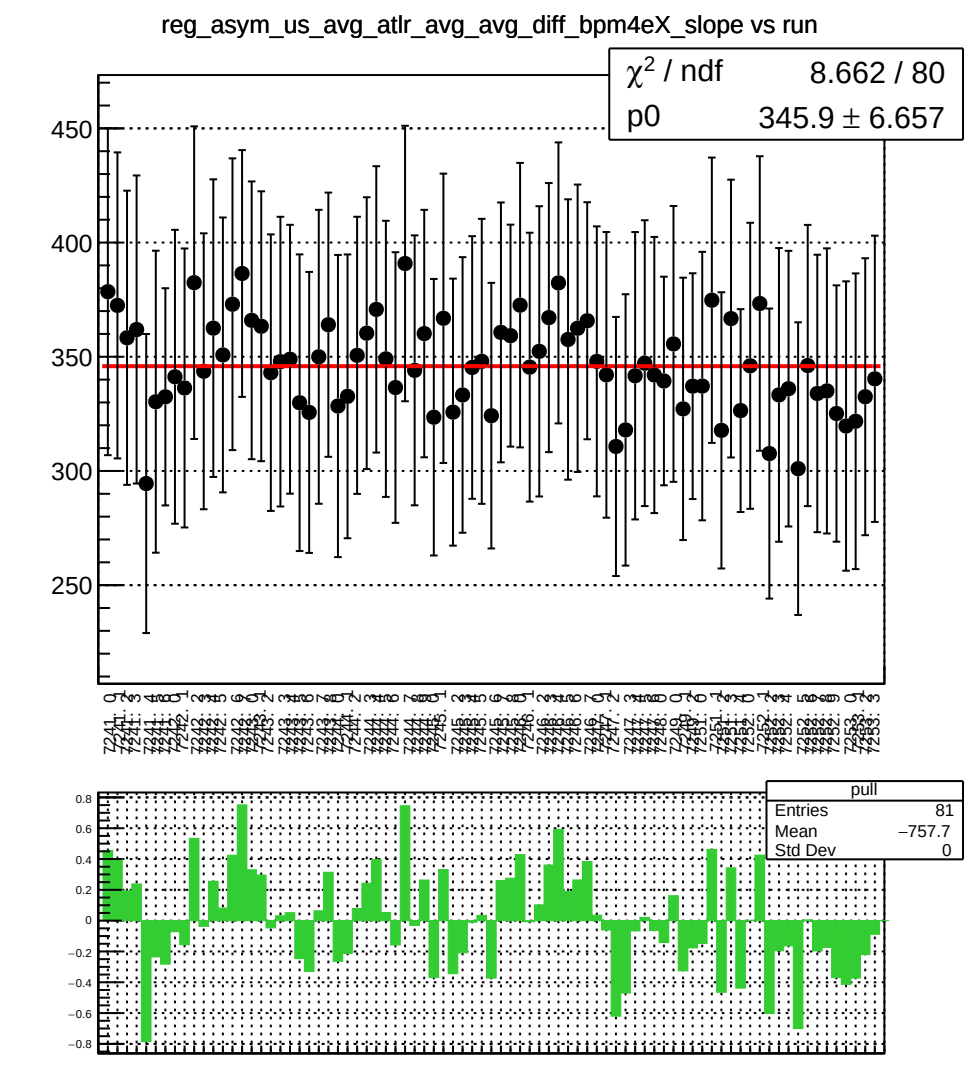

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 12.84 / 80
p0 207.4 ± 0.2833
214
212
210
208
206
204
202
pull
Entries 81
Mean −216.7
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 81
Mean 0.01482
Std Dev 0.3979
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

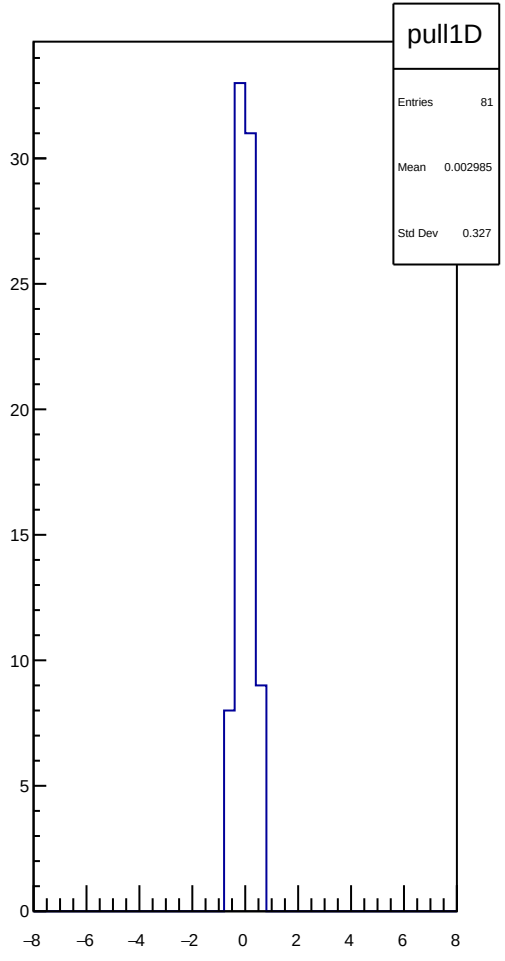

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 7.878 / 80
p0 −334.1± 6.412
−250
−300
−350
−400
−450
pull
Entries 81
Mean −698.8
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

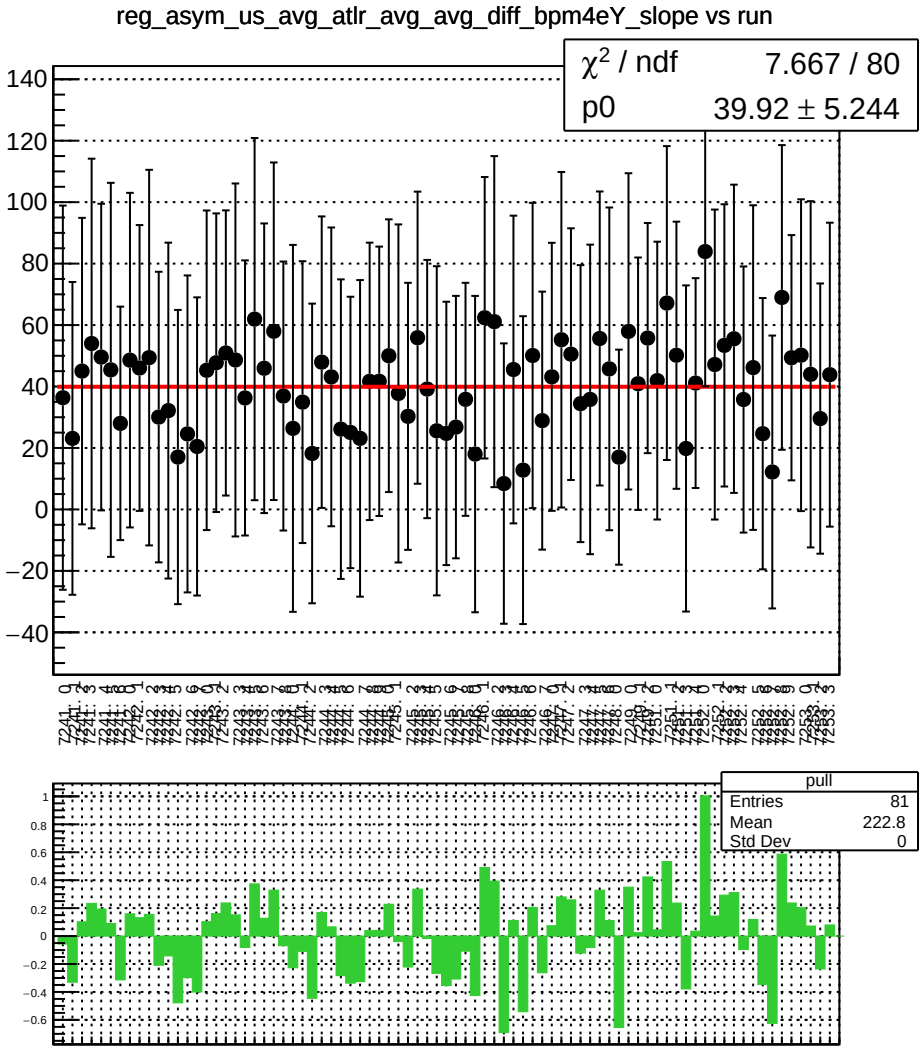

pull1D
Entries 81
Mean −0.002003
Std Dev 0.3119
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

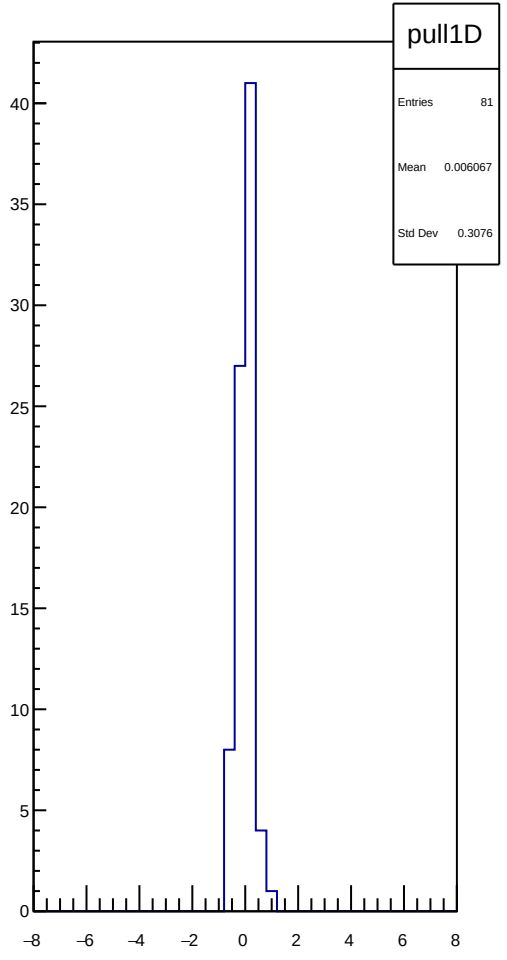

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.19 / 80
p0 36.72 ± 4.877
pull
Entries 81
Mean 710.1
Std Dev 0

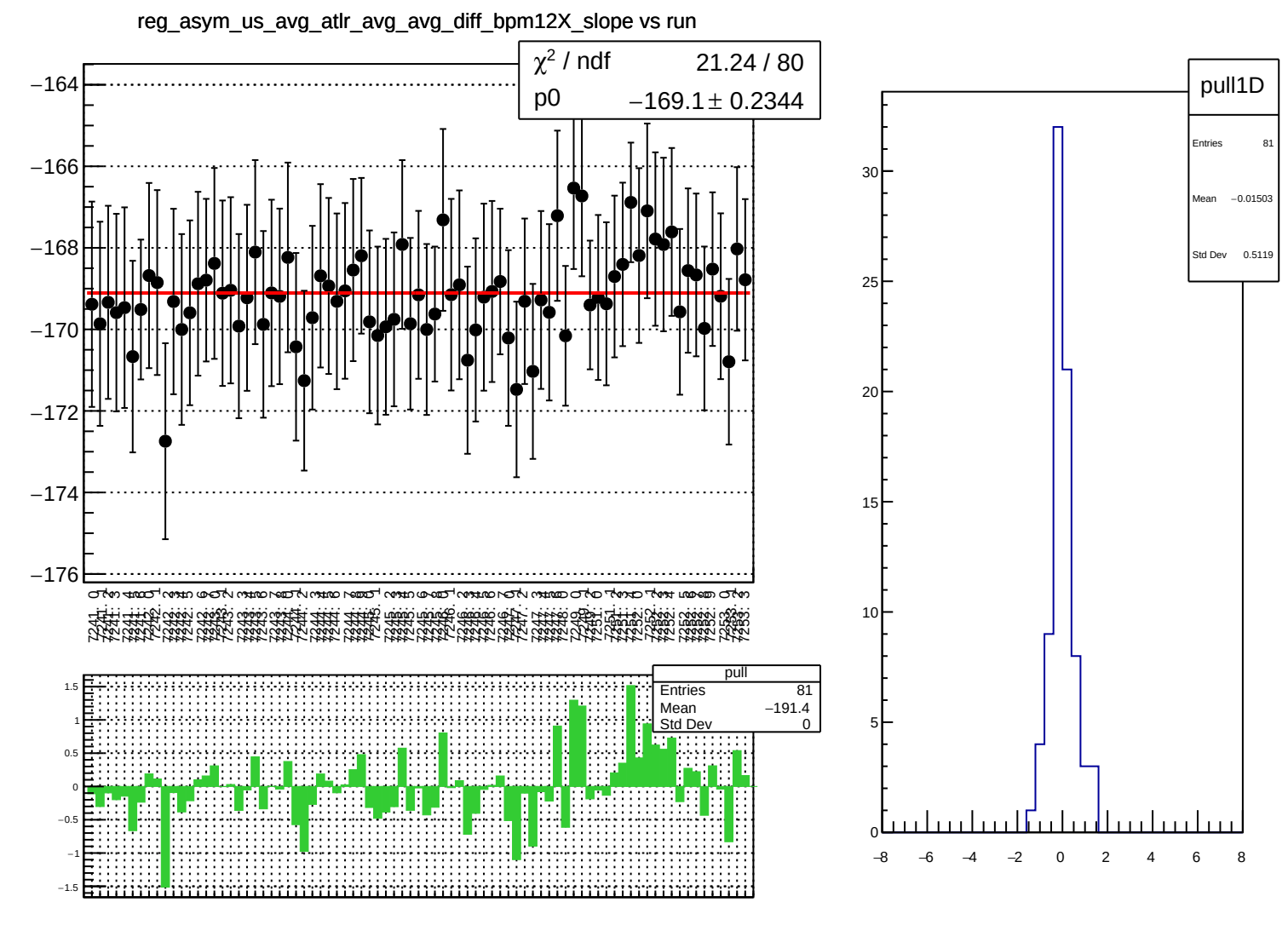

pull1D
Entries 81
Mean −0.003125
Std Dev 0.318

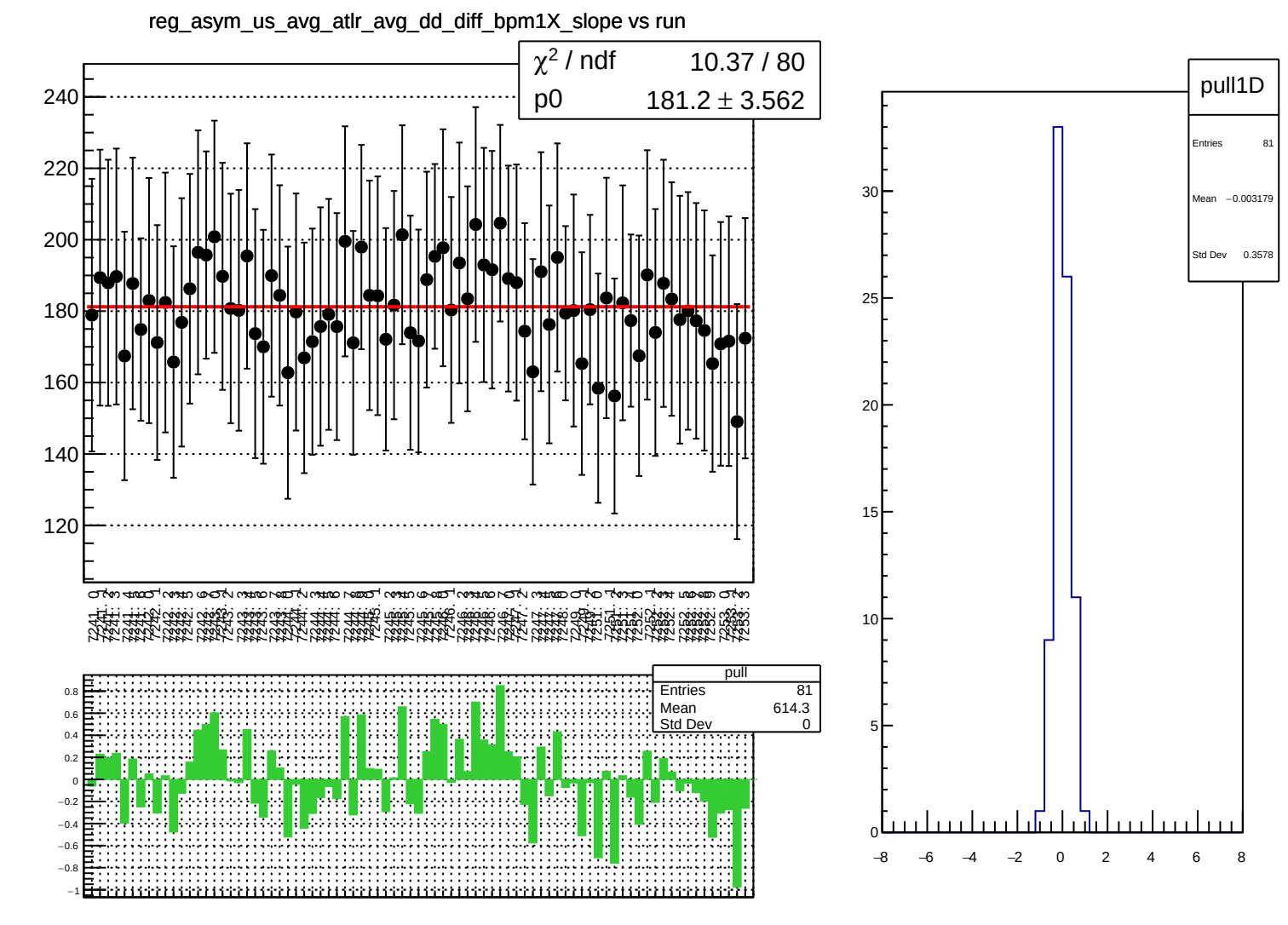

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.662 / 80
p0 345.9 ± 6.657
450
400
350
300
250
pull
Entries 81
Mean −757.7
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

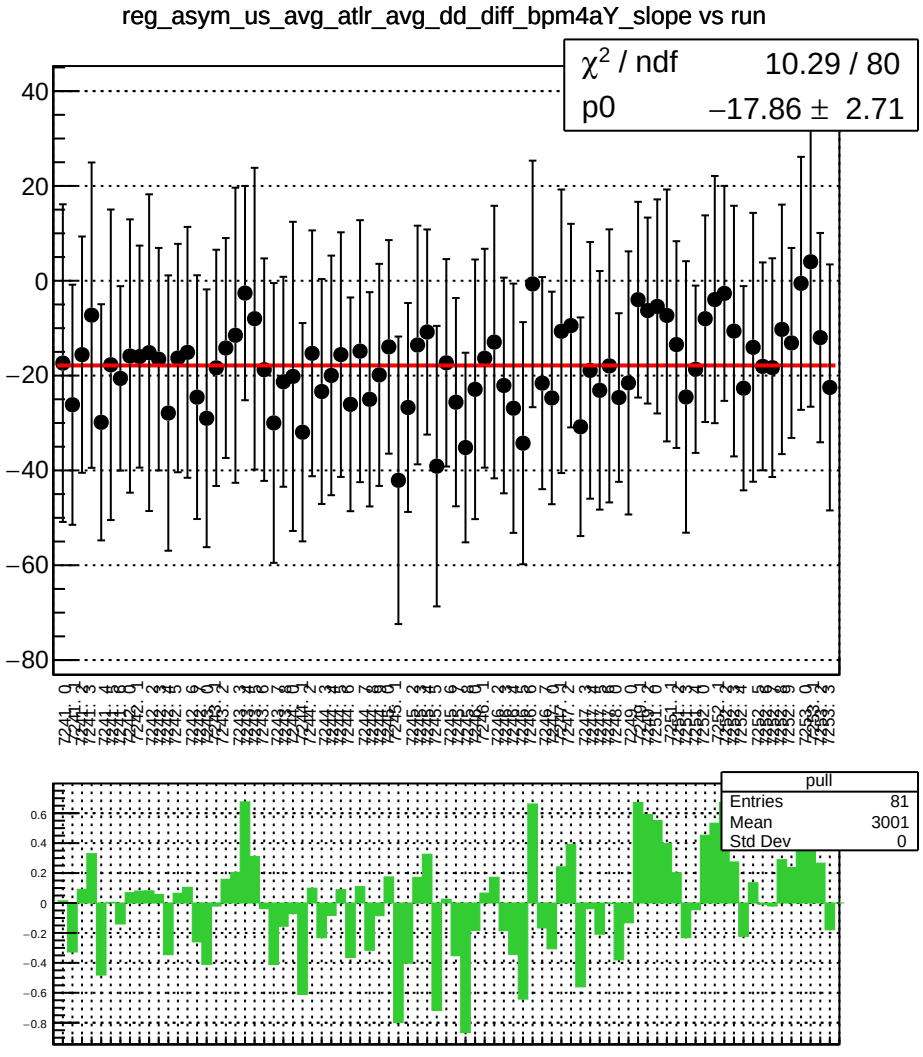

pull1D
Entries 81
Mean 0.002985
Std Dev 0.327
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

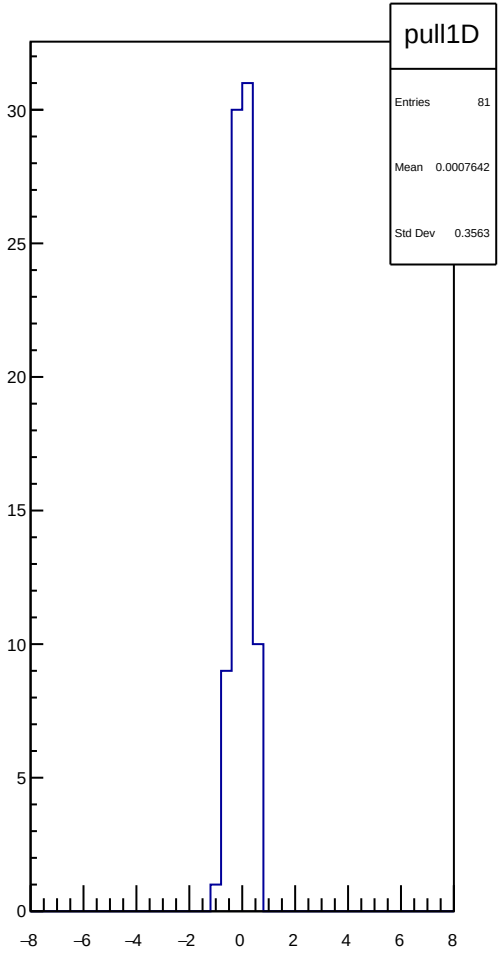

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.667 / 80
p0 39.92 ± 5.244
pull
Entries 81
Mean 222.8
Std Dev 0

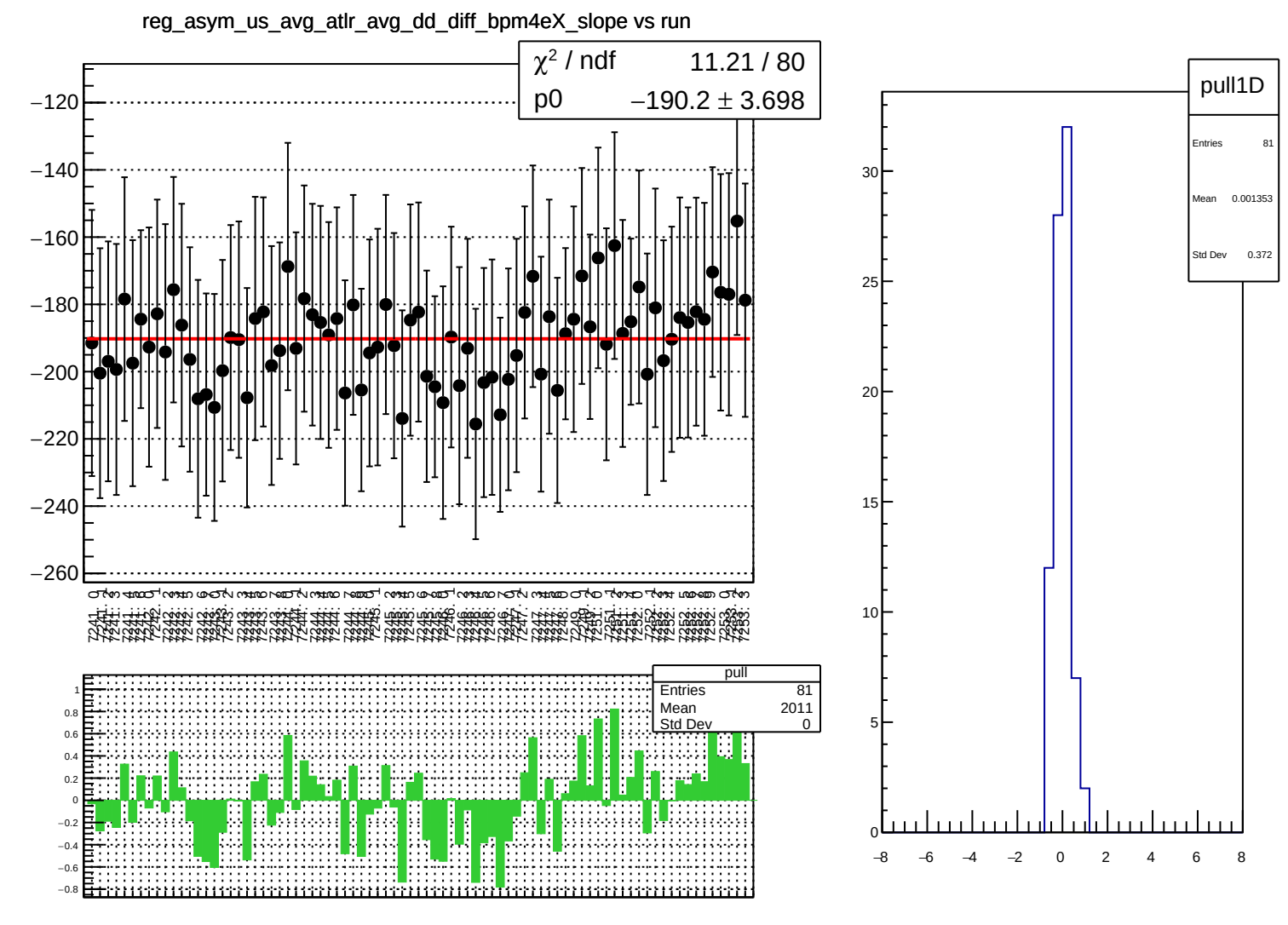

pull1D
Entries 81
Mean 0.006067
Std Dev 0.3076

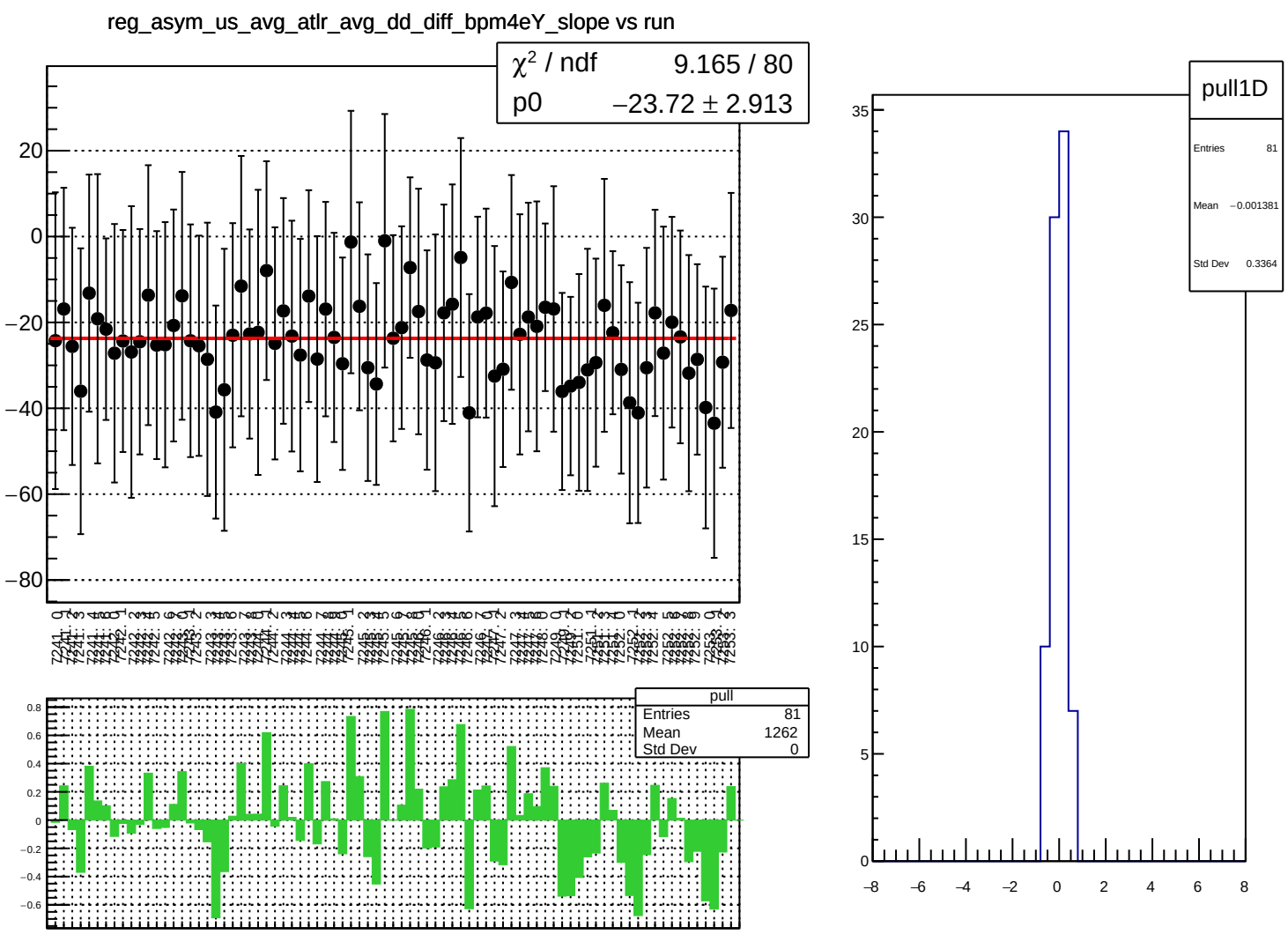

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 21.24 / 80
p0 −169.1 ± 0.2344
pull
Entries 81
Mean −191.4
Std Dev 0
pull1D
Entries 81
Mean −0.01503
Std Dev 0.5119

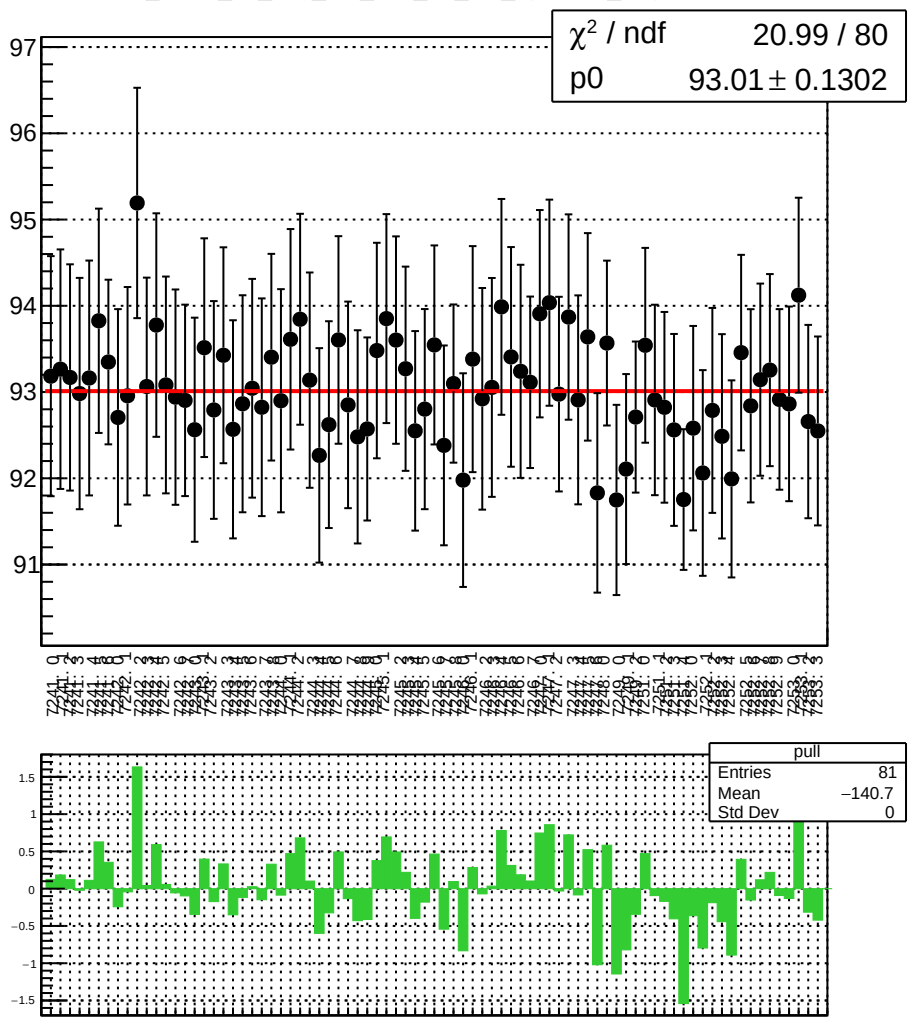

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 10.37 / 80
p0 181.2 ± 3.562
240
220
200
180
160
140
120
pull
Entries 81
Mean 614.3
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 81
Mean −0.003179
Std Dev 0.3578
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

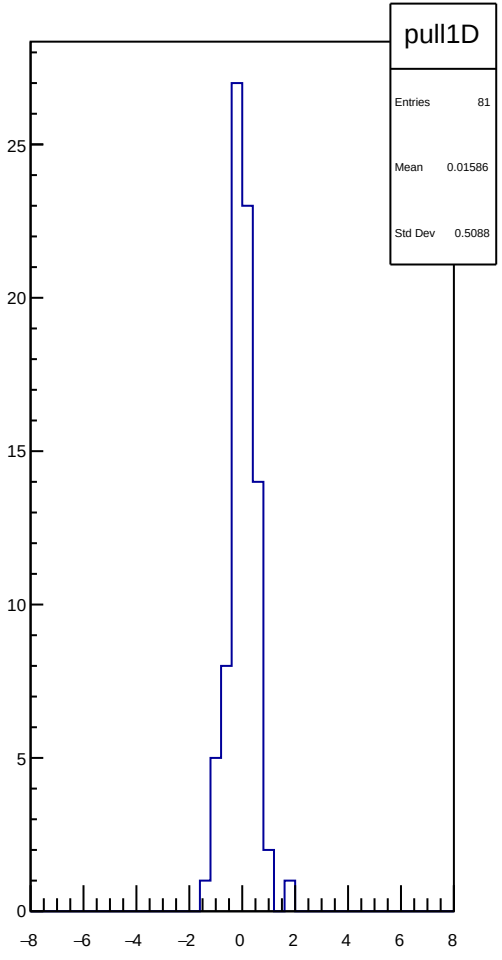

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.29 / 80
p0 −17.86 ± 2.71
pull
Entries 81
Mean 3001
Std Dev 0

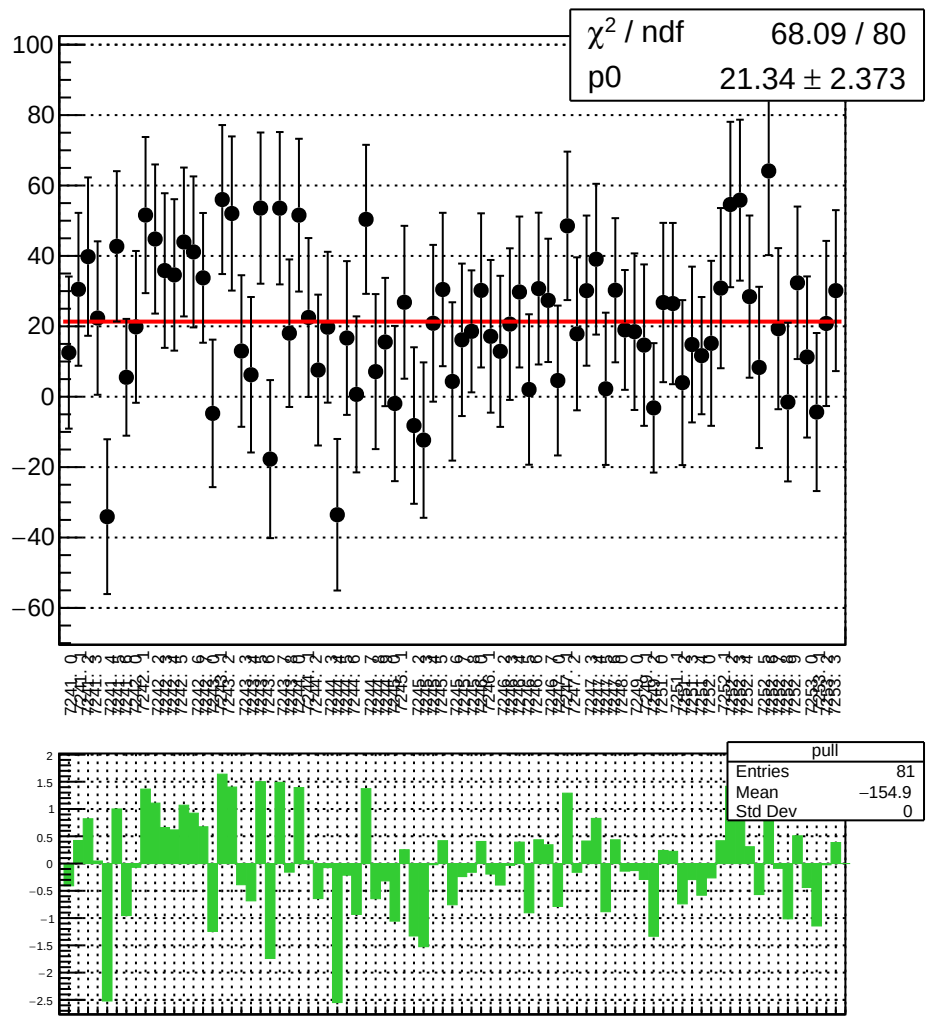

pull1D
Entries 81
Mean 0.0007642
Std Dev 0.3563

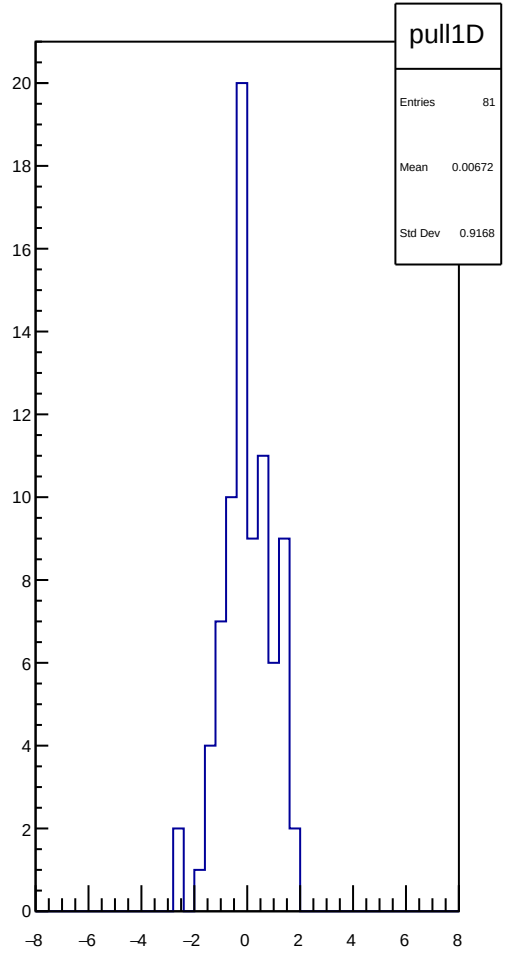

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.21 / 80
p0 −190.2 ± 3.698
pull
Entries 81
Mean 2011
Std Dev 0
pull1D
Entries 81
Mean 0.001353
Std Dev 0.372

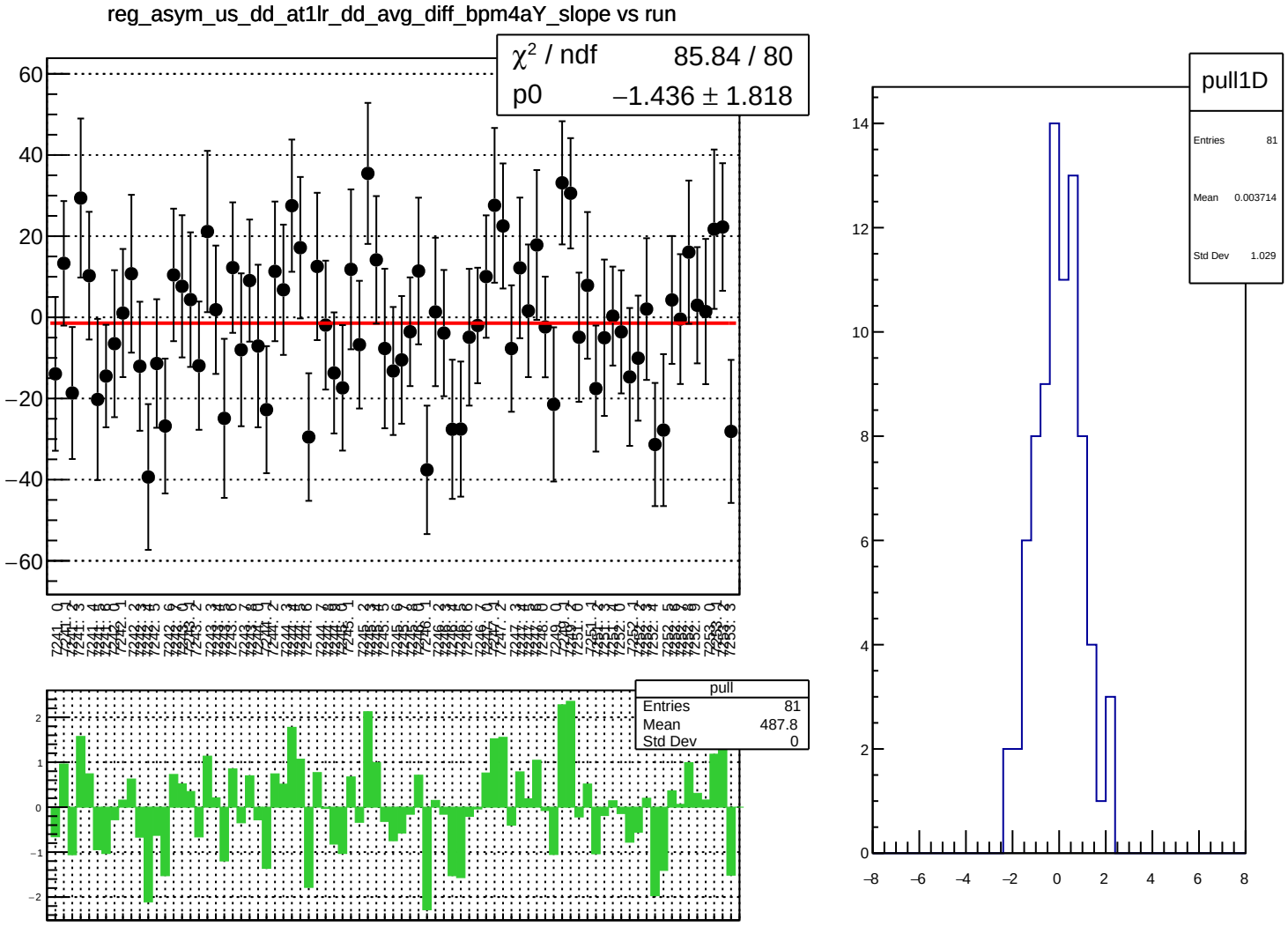

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.165 / 80
p0 −23.72 ± 2.913
pull
Entries 81
Mean 1262
Std Dev 0
pull1D
Entries 81
Mean −0.001381
Std Dev 0.3364

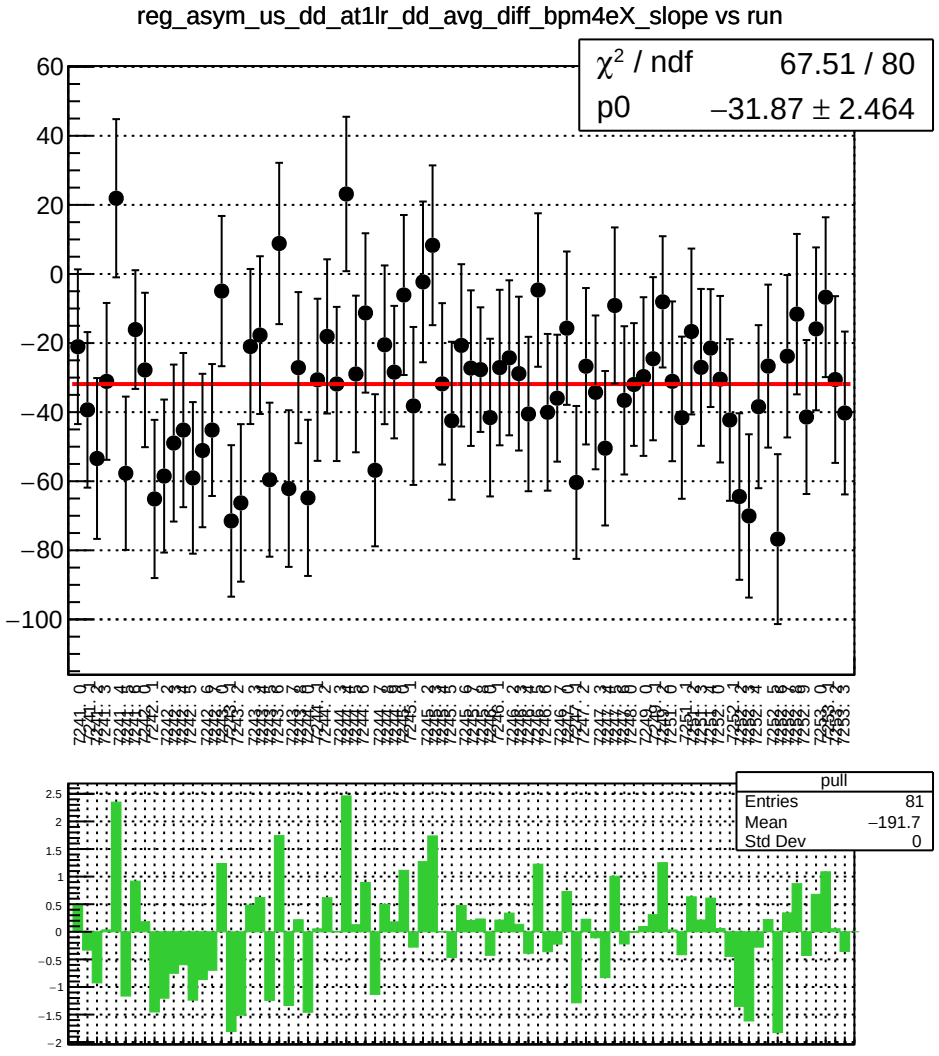

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 20.99 / 80
p0 93.01 ± 0.1302
pull
Entries 81
Mean −140.7
Std Dev 0

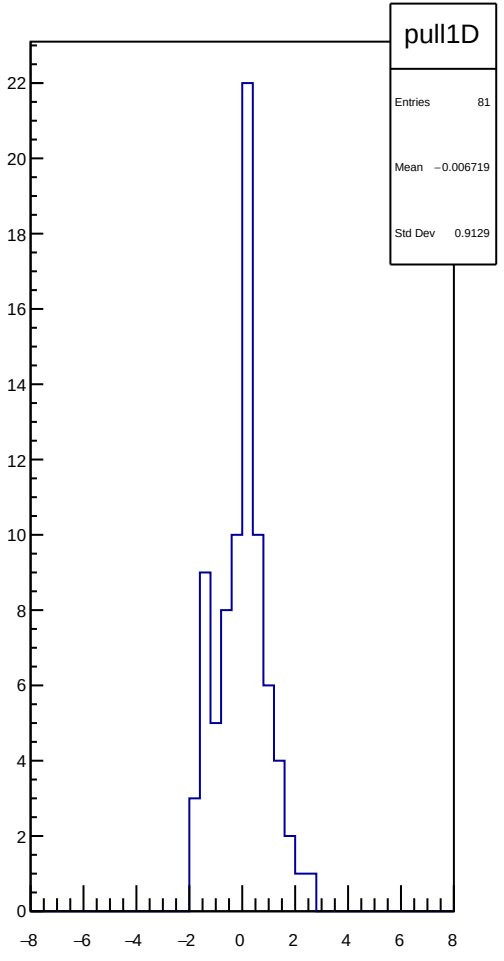

pull1D
Entries 81
Mean 0.01586
Std Dev 0.5088

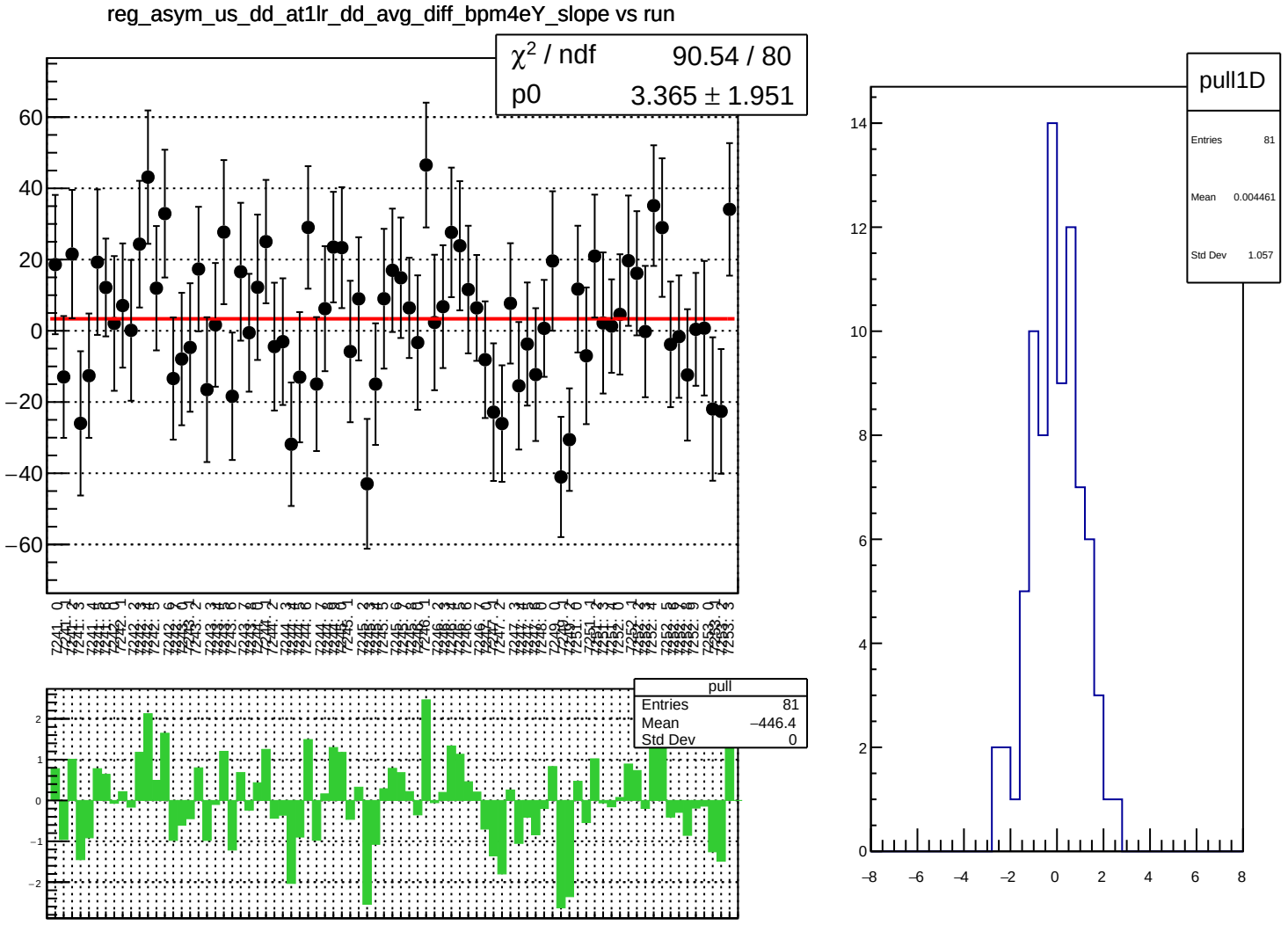

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 68.09 / 80
p0 21.34 ± 2.373
pull
Entries 81
Mean −154.9
Std Dev 0

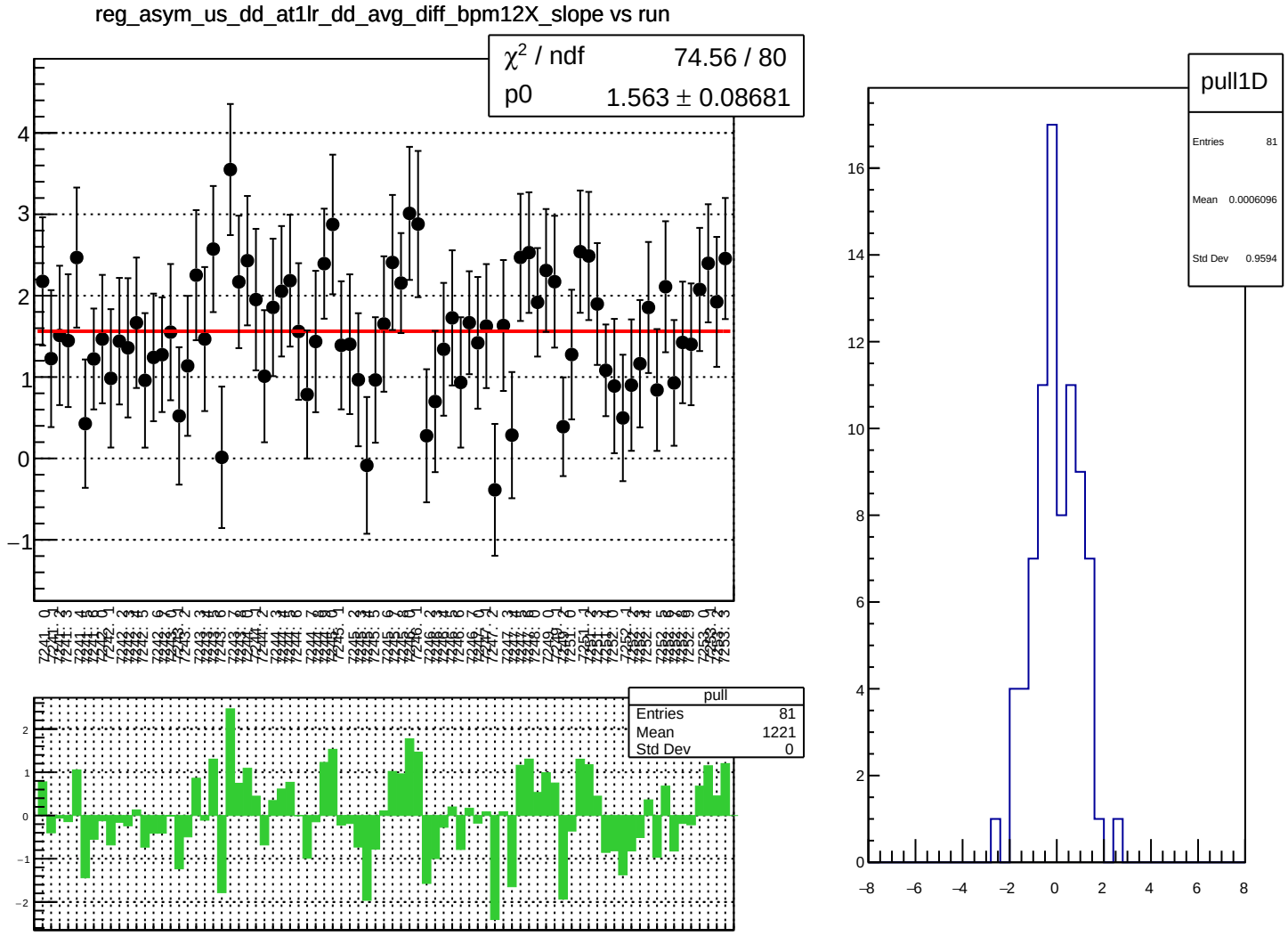

pull1D
Entries 81
Mean 0.00672
Std Dev 0.9168

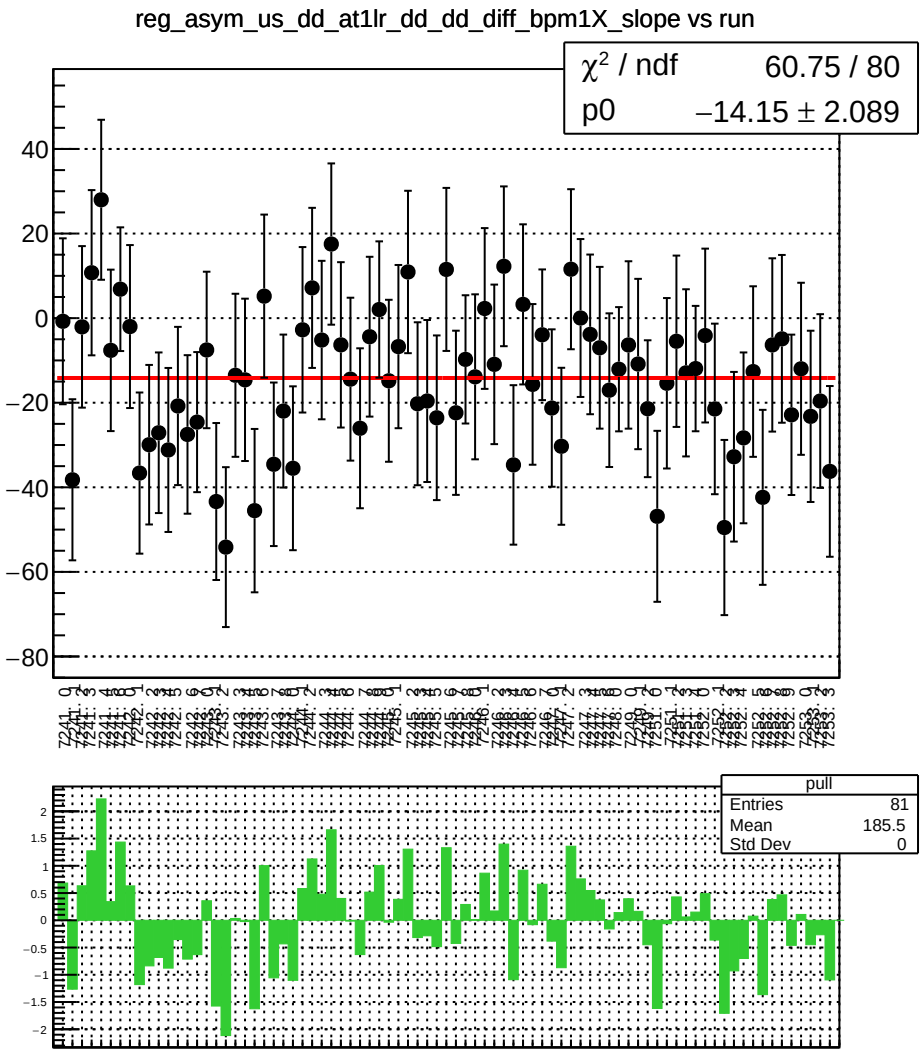

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 85.84 / 80
p0 −1.436 ± 1.818
pull
Entries 81
Mean 487.8
Std Dev 0
pull1D
Entries 81
Mean 0.003714
Std Dev 1.029

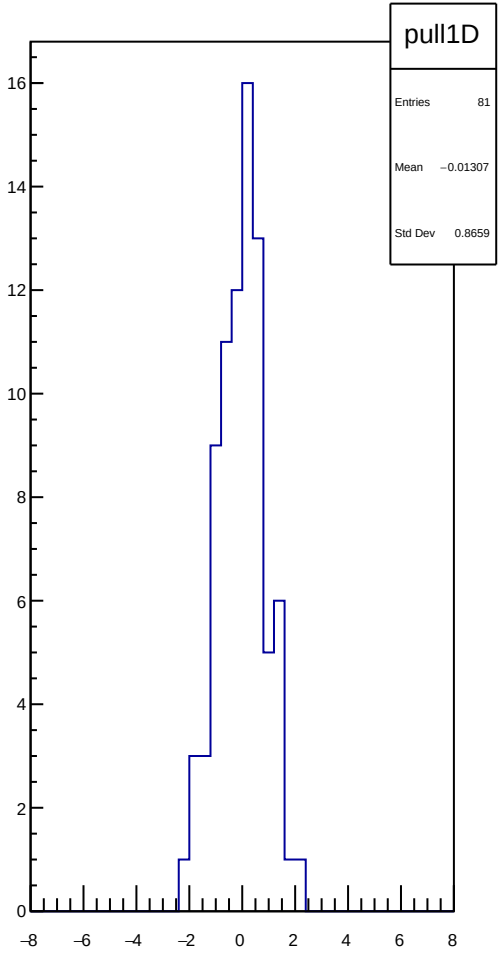

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 67.51 / 80
p0 −31.87 ± 2.464
pull
Entries 81
Mean −191.7
Std Dev 0

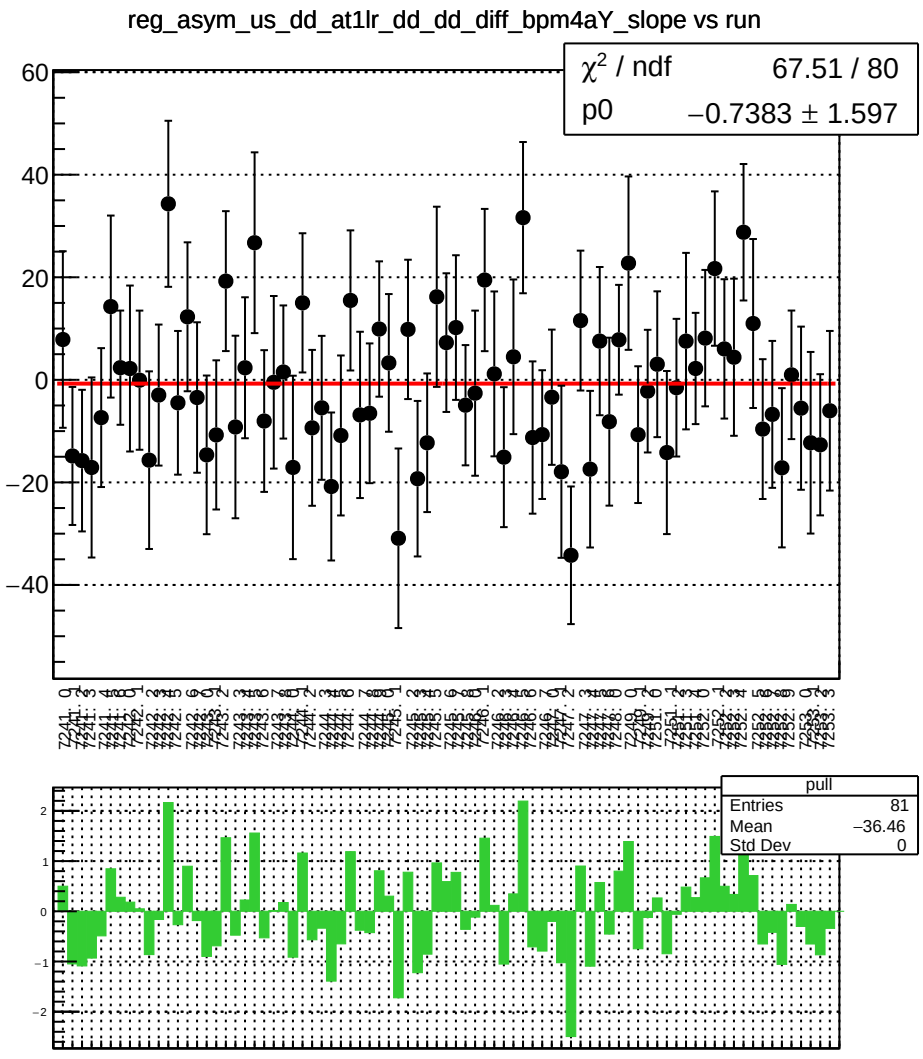

pull1D
Entries 81
Mean −0.006719
Std Dev 0.9129

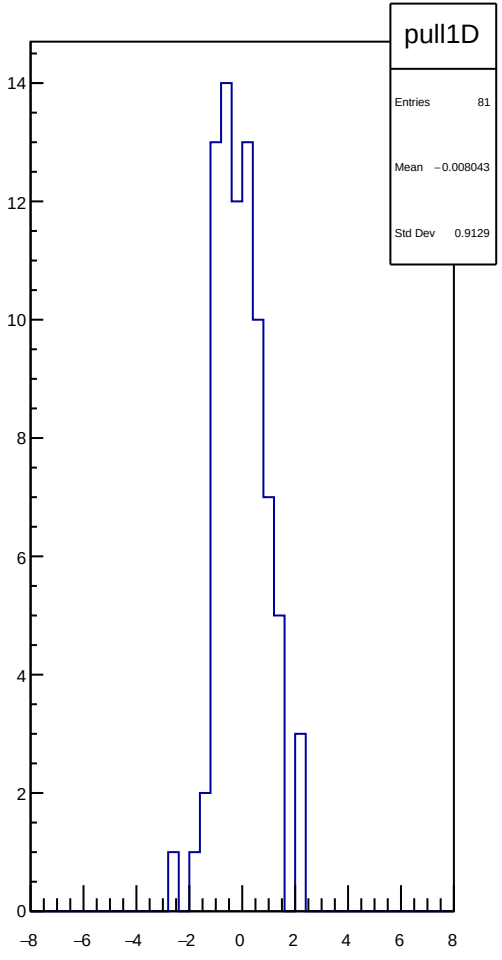

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 90.54 / 80
p0 3.365 ± 1.951
pull
Entries 81
Mean −446.4
Std Dev 0
pull1D
Entries 81
Mean 0.004461
Std Dev 1.057

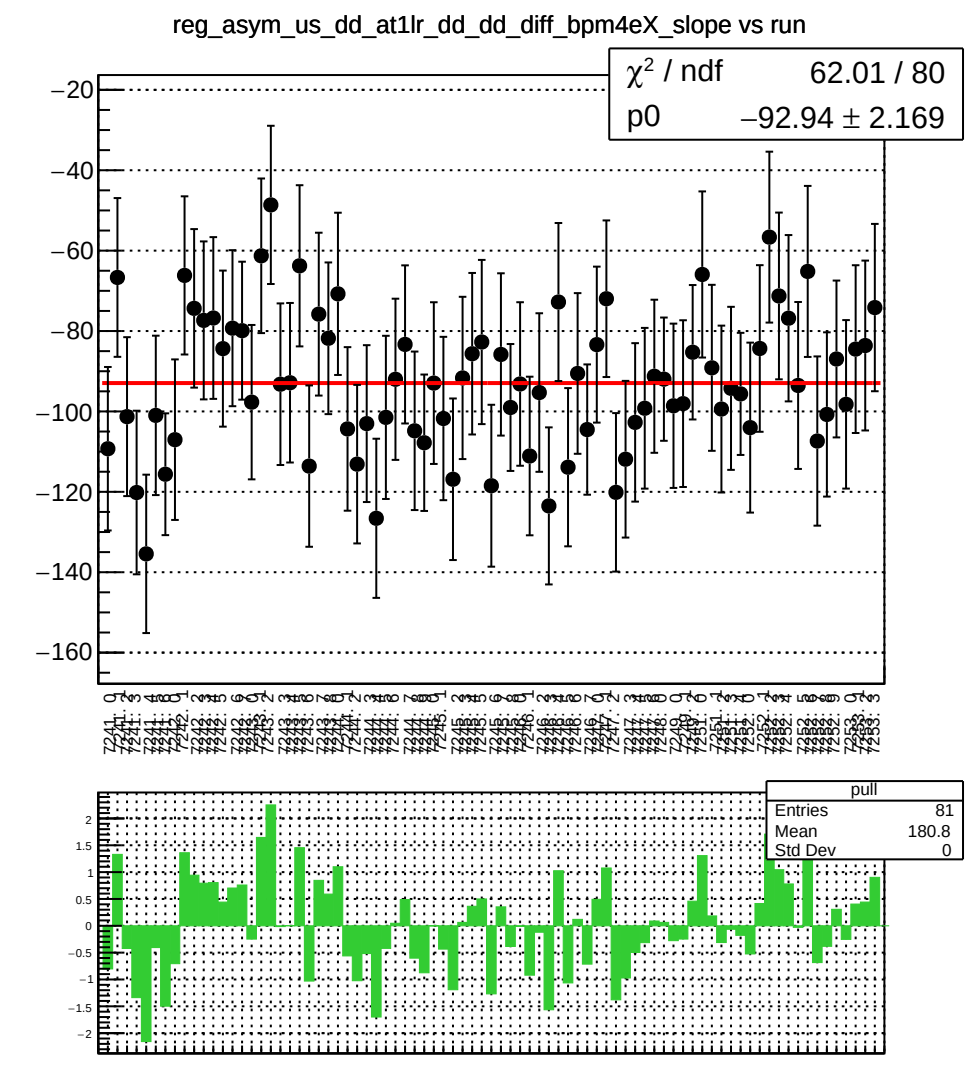

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 74.56 / 80
p0 1.563 ± 0.08681
pull
Entries 81
Mean 1221
Std Dev 0
pull1D
Entries 81
Mean 0.0006096
Std Dev 0.9594

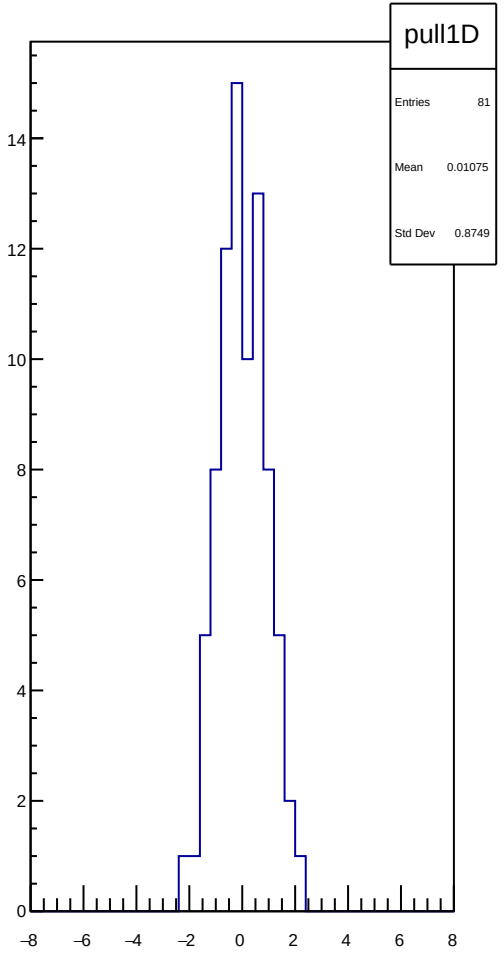

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 60.75 / 80
p0 −14.15 ± 2.089
pull
Entries 81
Mean 185.5
Std Dev 0

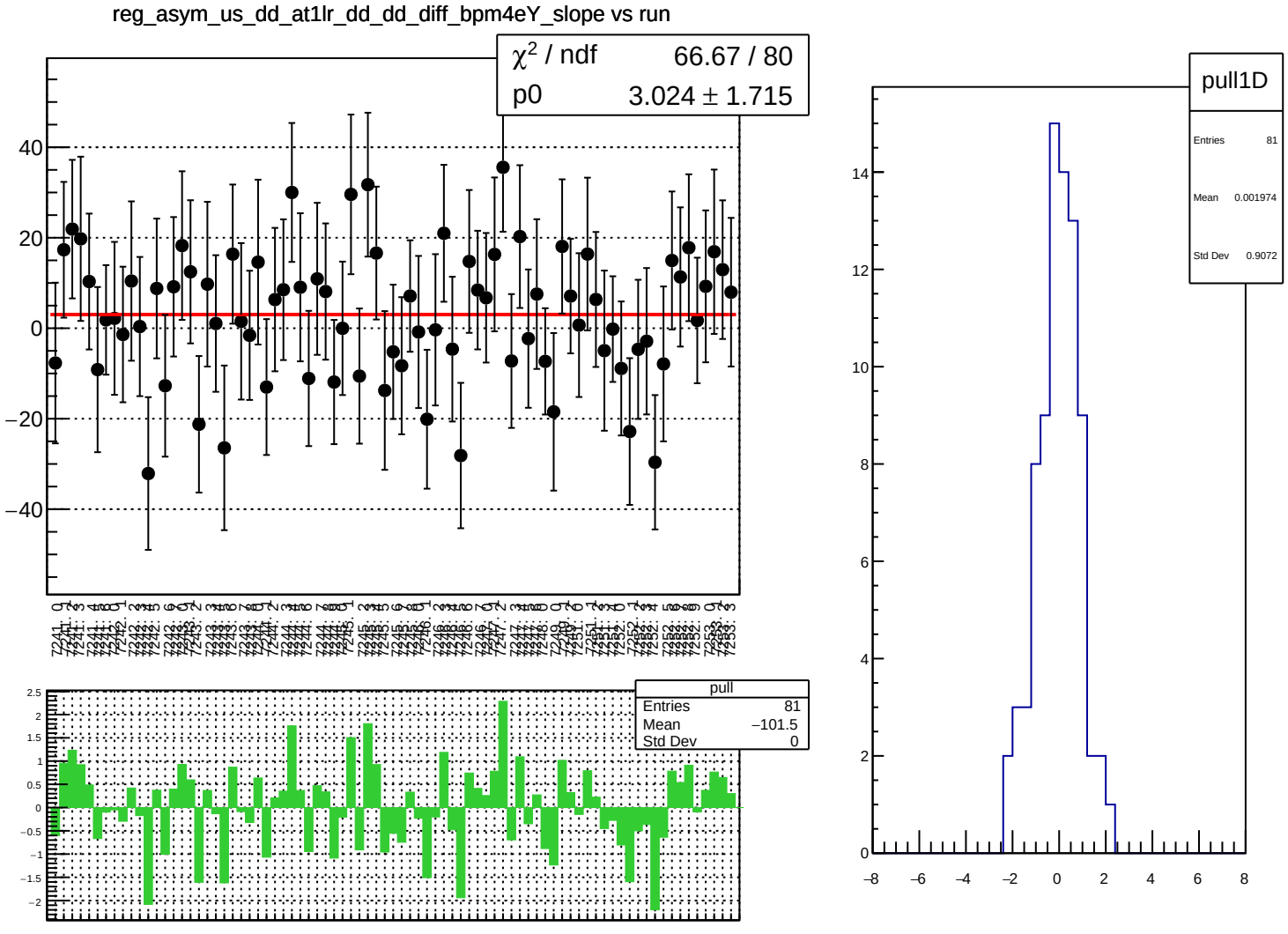

pull1D
Entries 81
Mean −0.01307
Std Dev 0.8659

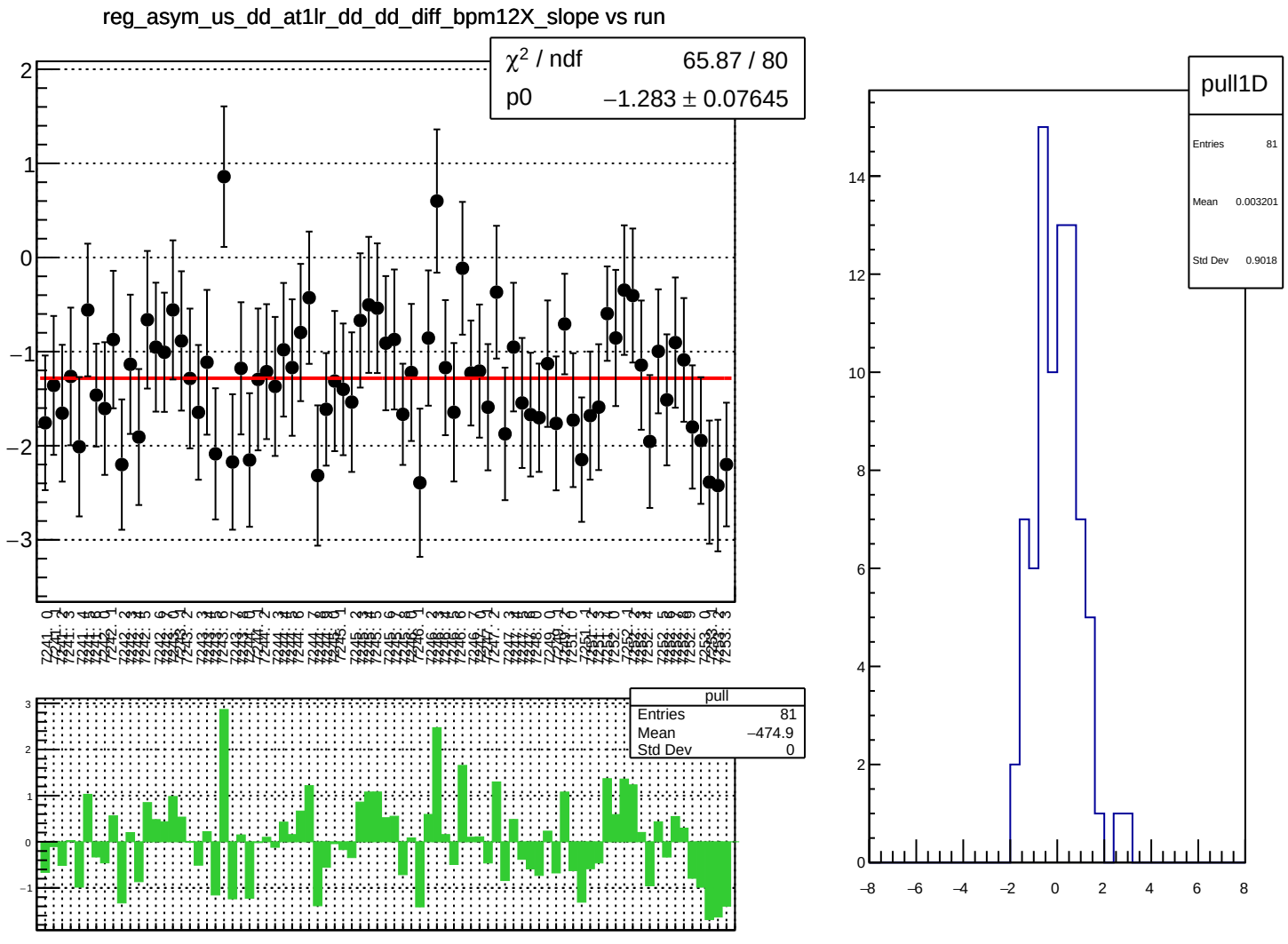

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 67.51 / 80
p0 −0.7383 ± 1.597
pull
Entries 81
Mean −36.46
Std Dev 0

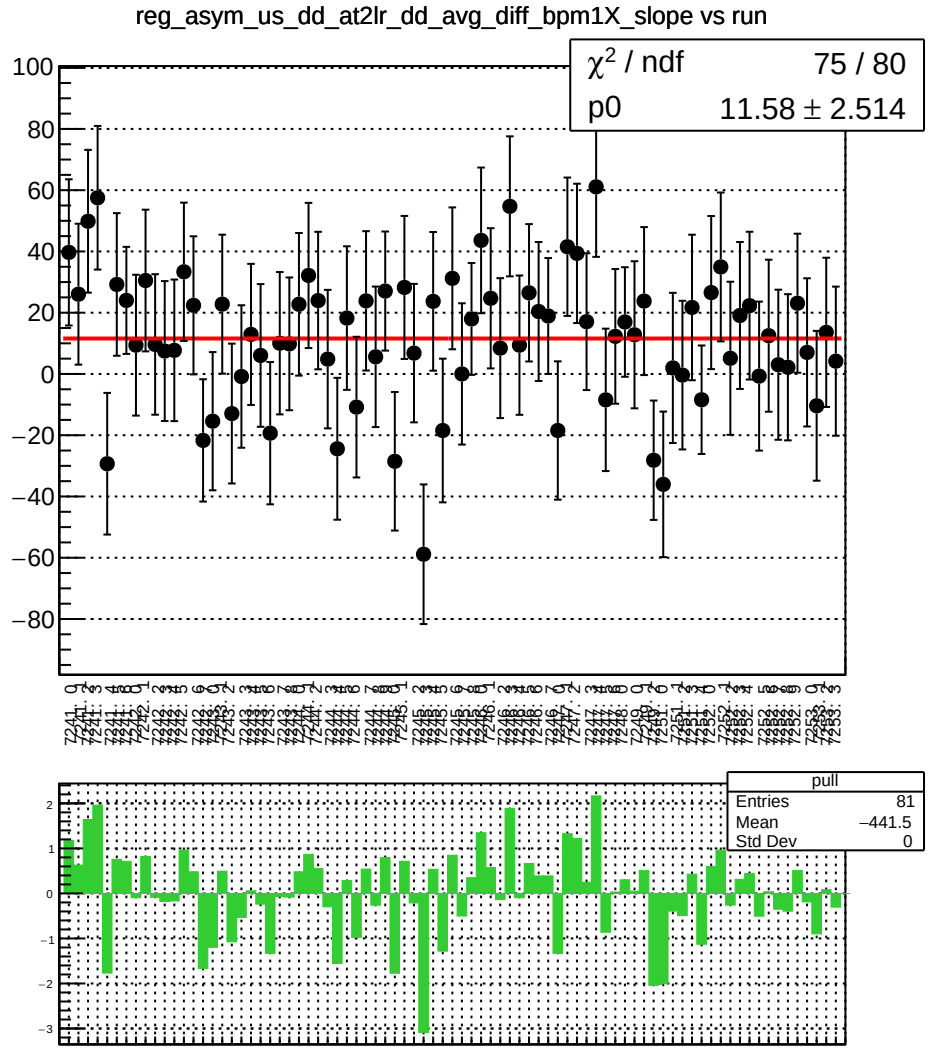

pull1D
Entries 81
Mean −0.008043
Std Dev 0.9129

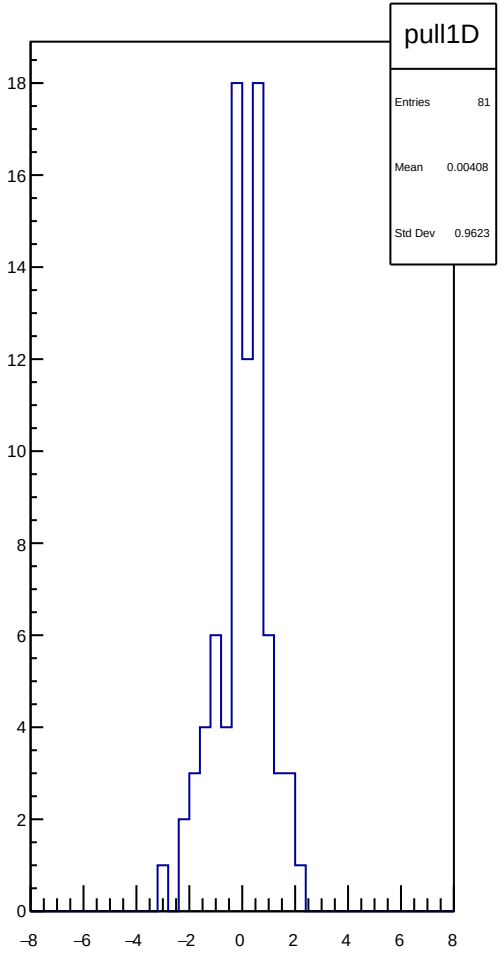

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 62.01 / 80
p0 −92.94 ± 2.169
pull
Entries 81
Mean 180.8
Std Dev 0

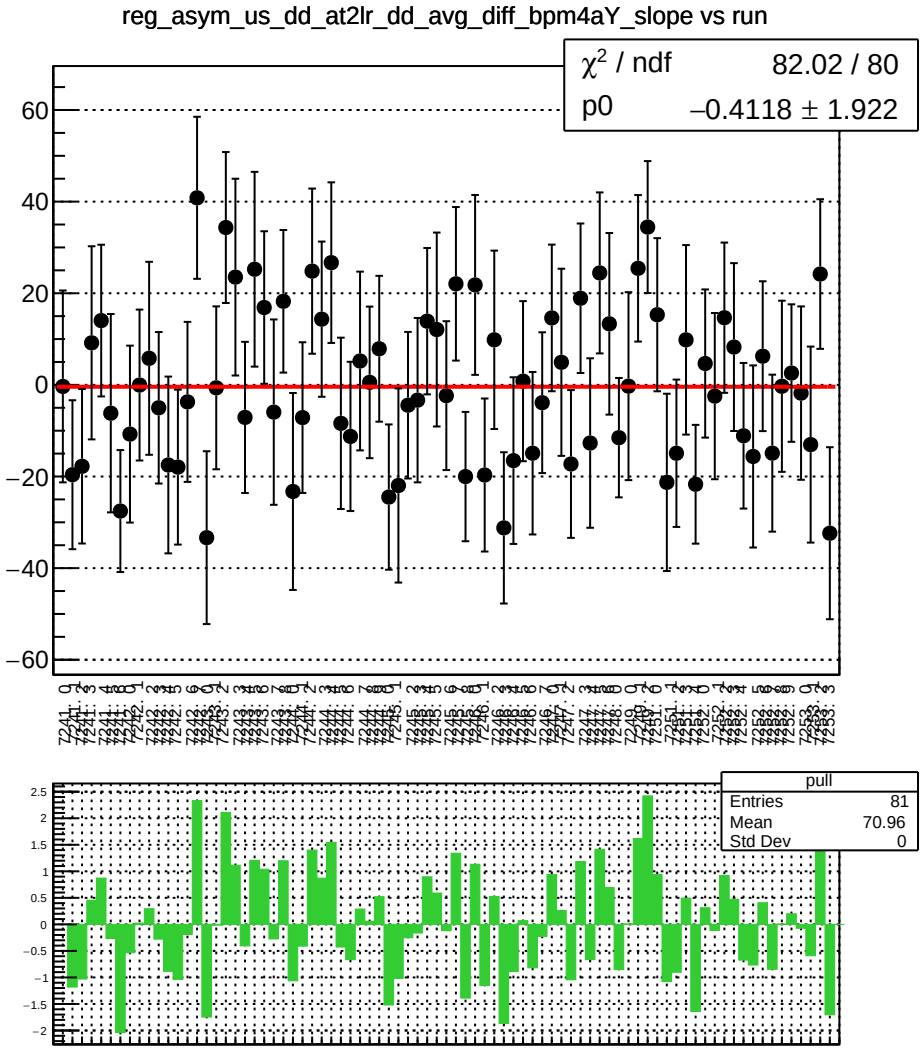

pull1D
Entries 81
Mean 0.01075
Std Dev 0.8749

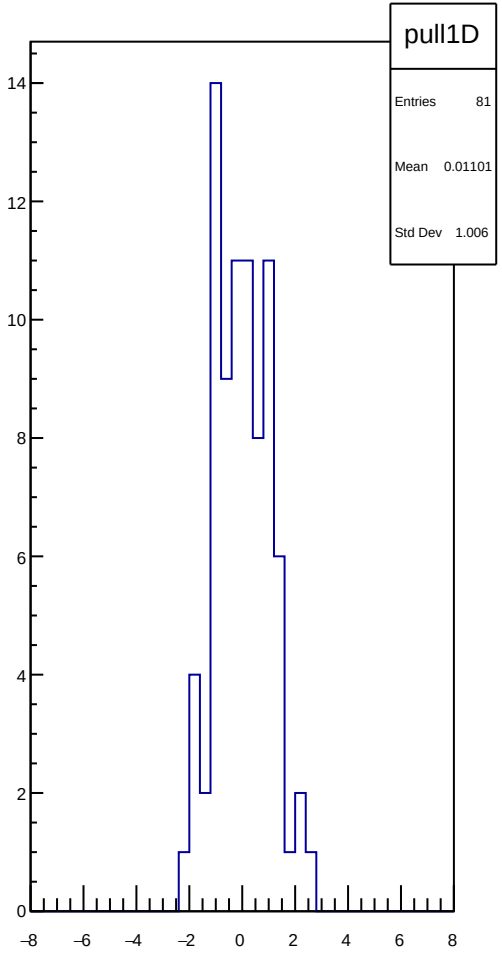

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 66.67 / 80
p0 3.024 ± 1.715
pull
Entries 81
Mean −101.5
Std Dev 0
pull1D
Entries 81
Mean 0.001974
Std Dev 0.9072

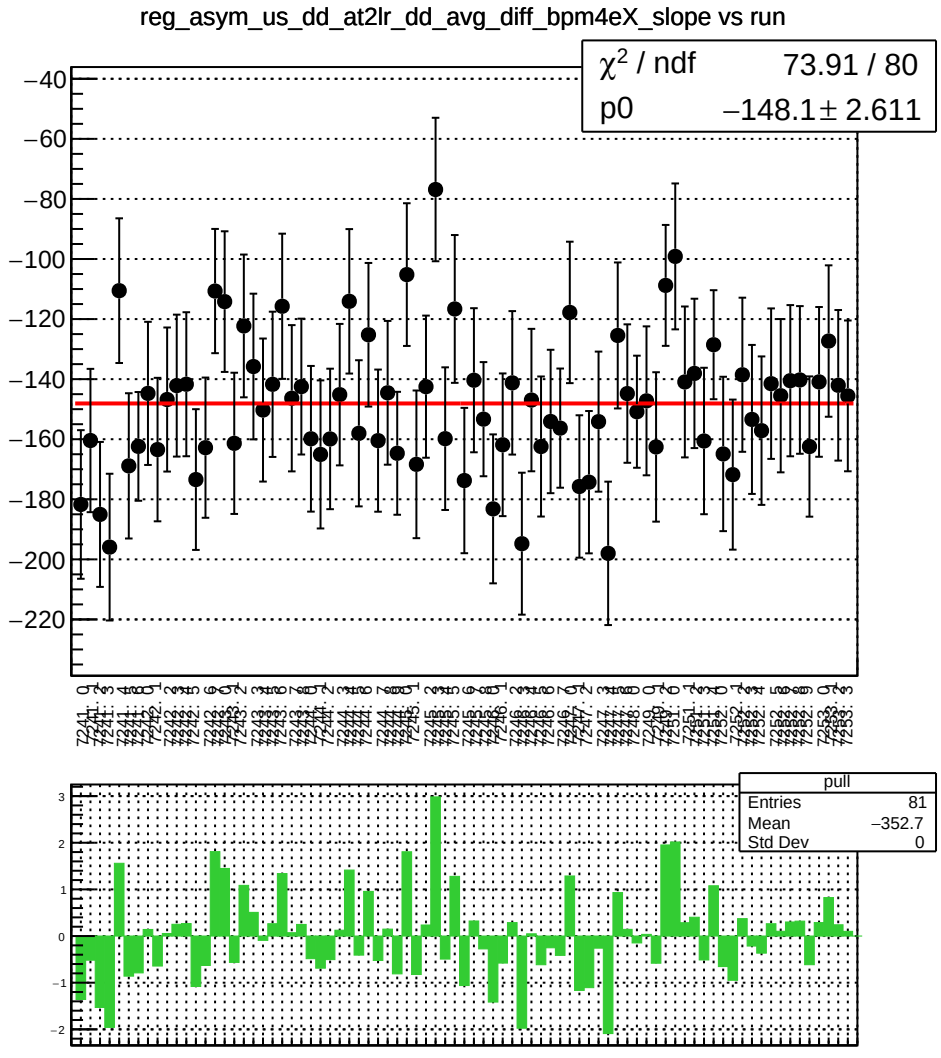

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 65.87 / 80
p0 −1.283 ± 0.07645
pull
Entries 81
Mean −474.9
Std Dev 0
pull1D
Entries 81
Mean 0.003201
Std Dev 0.9018

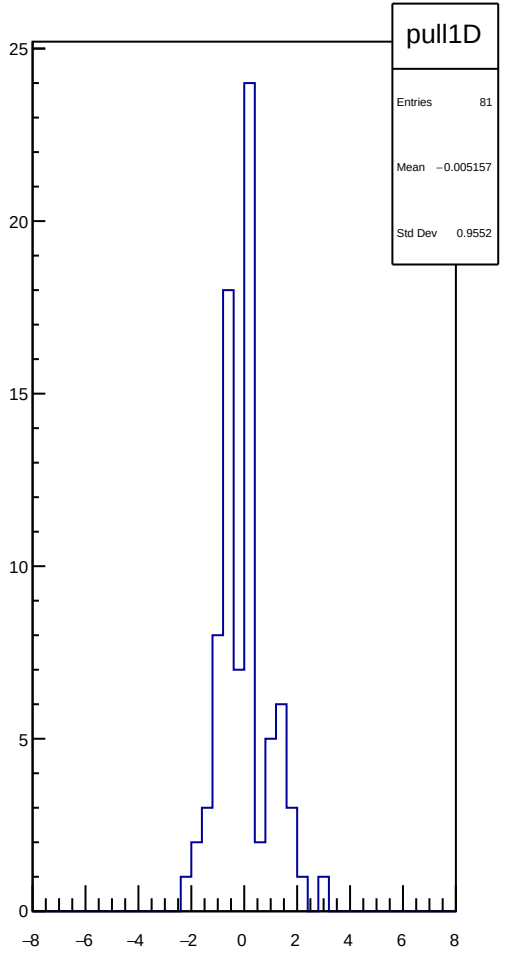

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 75 / 80
p0 11.58 ± 2.514
pull
Entries 81
Mean −441.5
Std Dev 0

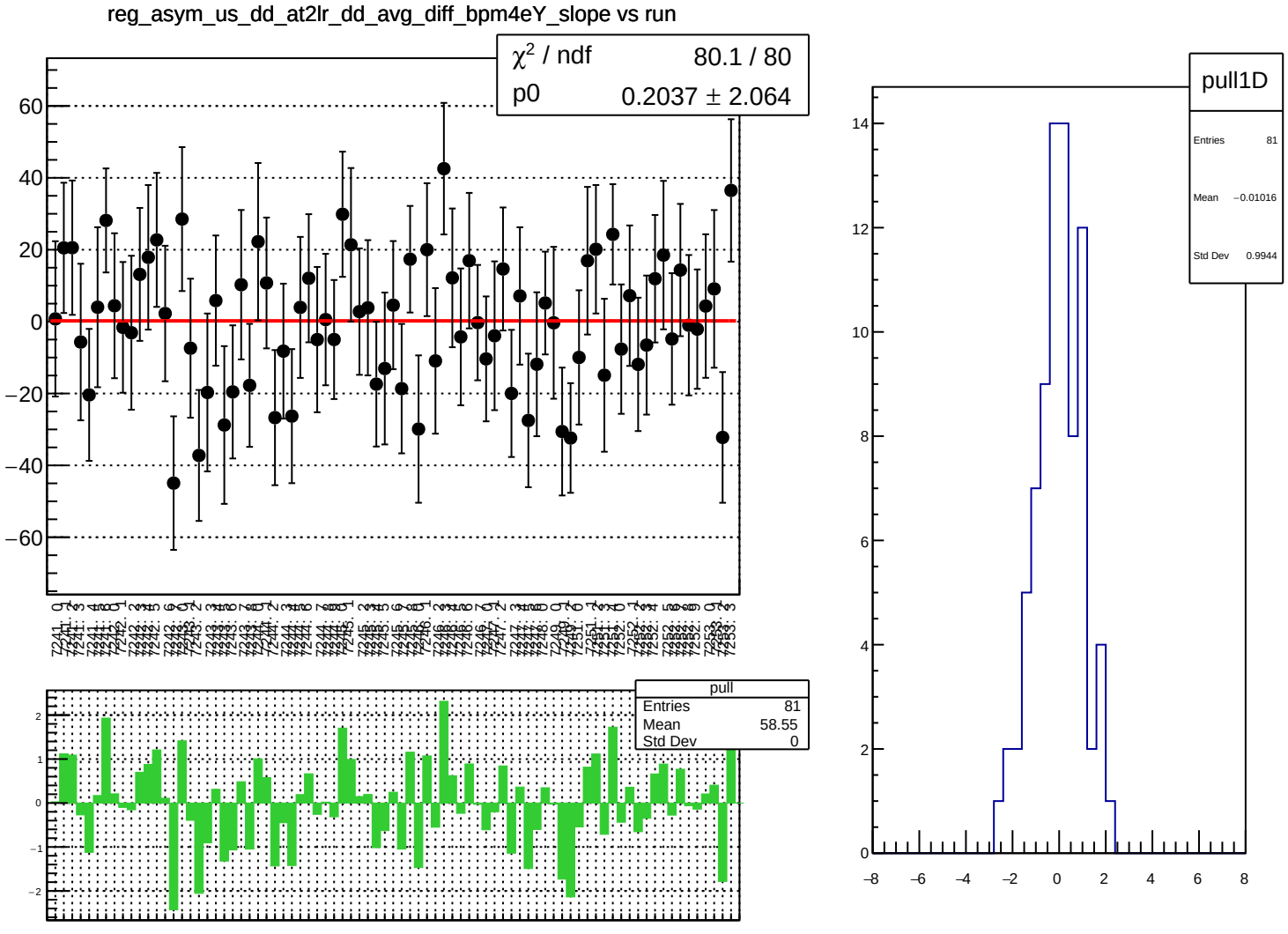

pull1D
Entries 81
Mean 0.00408
Std Dev 0.9623

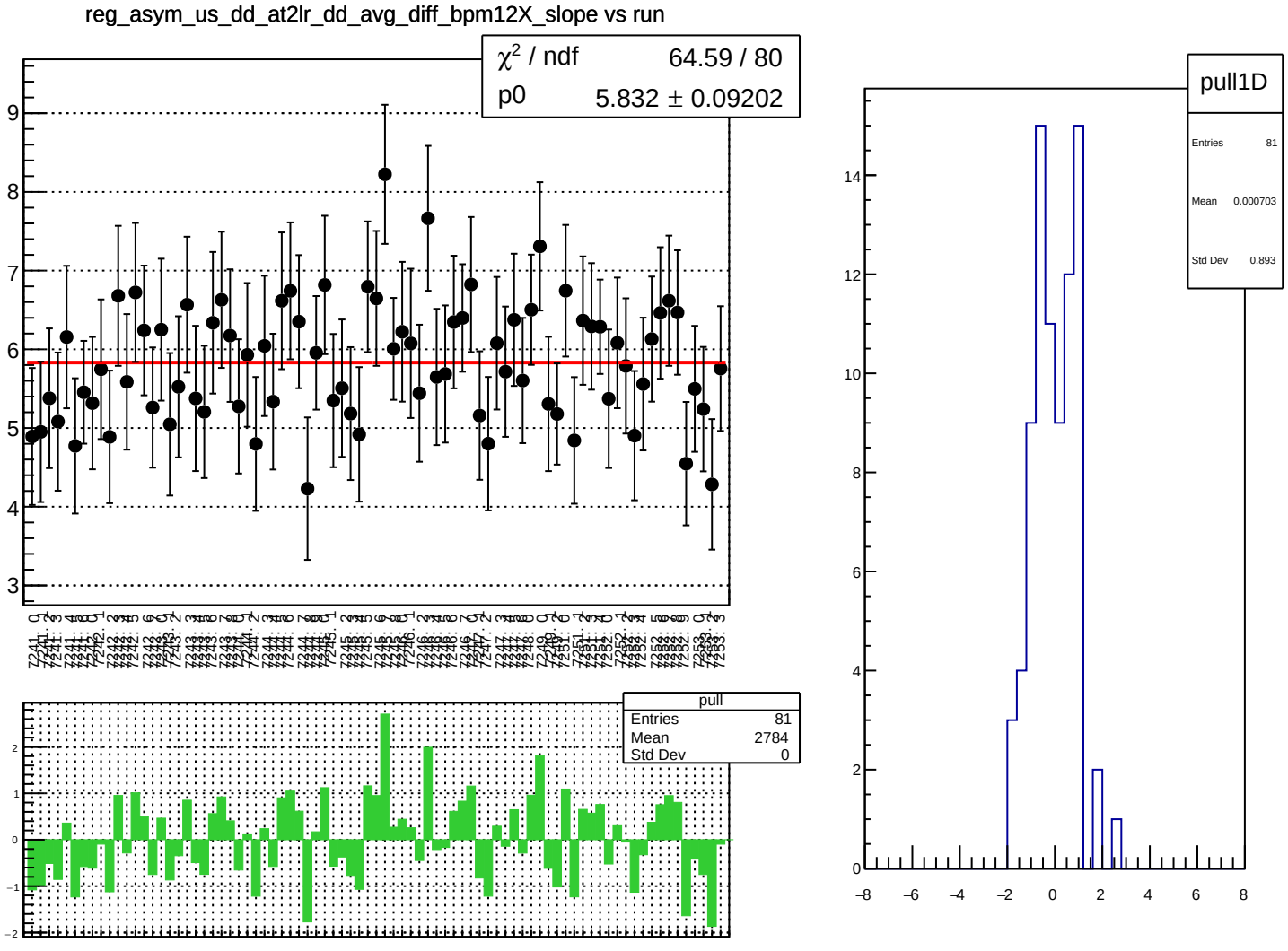

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 82.02 / 80
p0 −0.4118 ± 1.922
pull
Entries 81
Mean 70.96
Std Dev 0

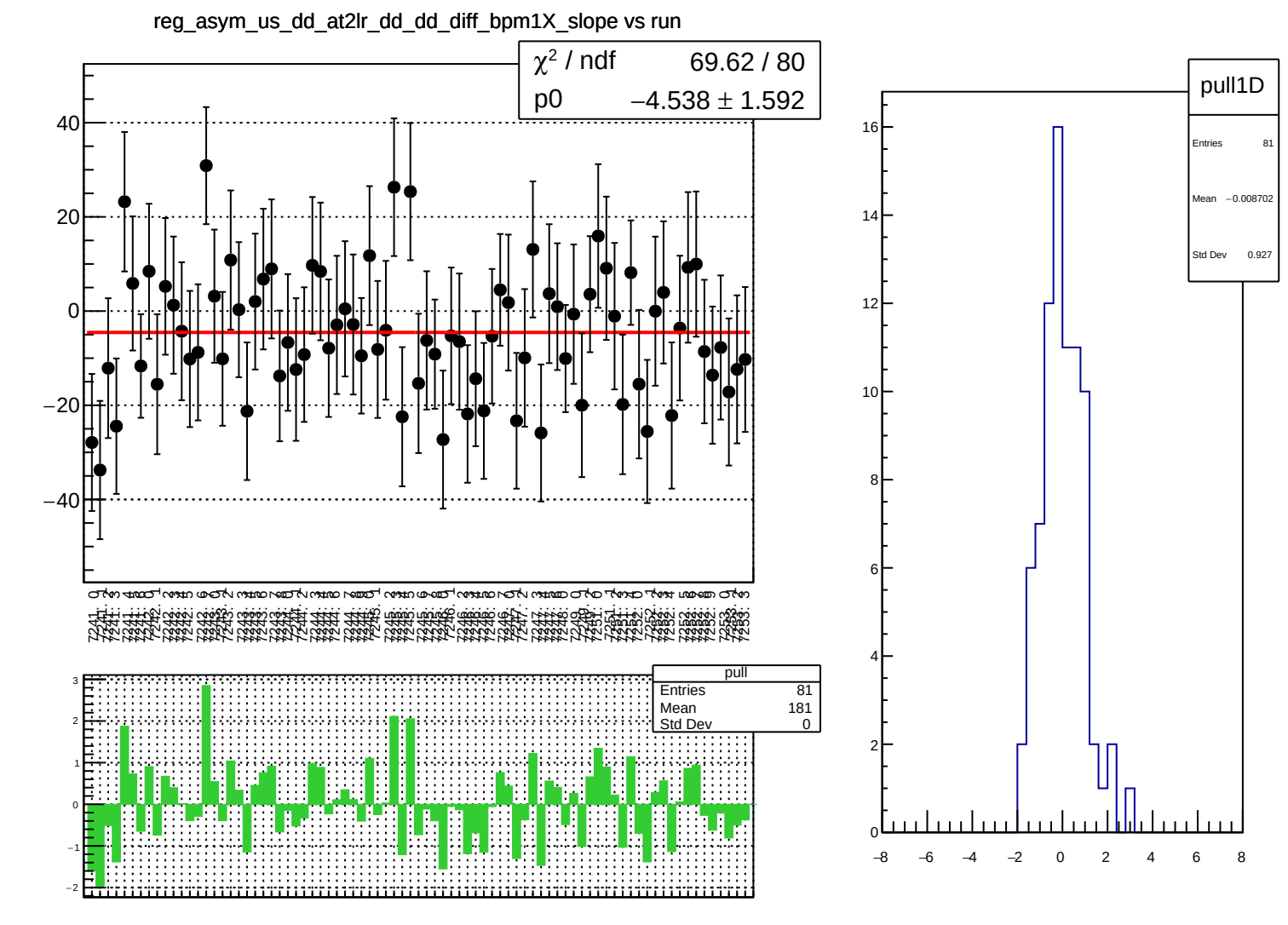

pull1D
Entries 81
Mean 0.01101
Std Dev 1.006

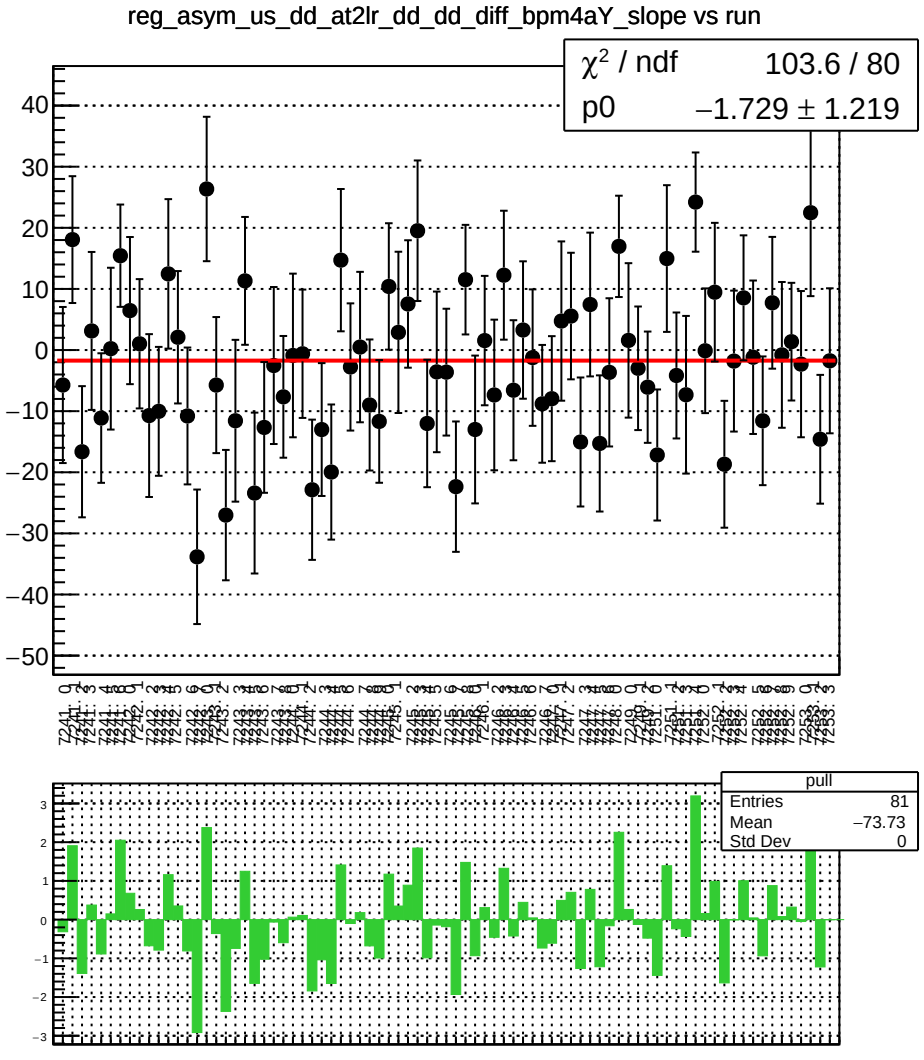

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 73.91 / 80
p0 −148.1 ± 2.611
pull
Entries 81
Mean −352.7
Std Dev 0

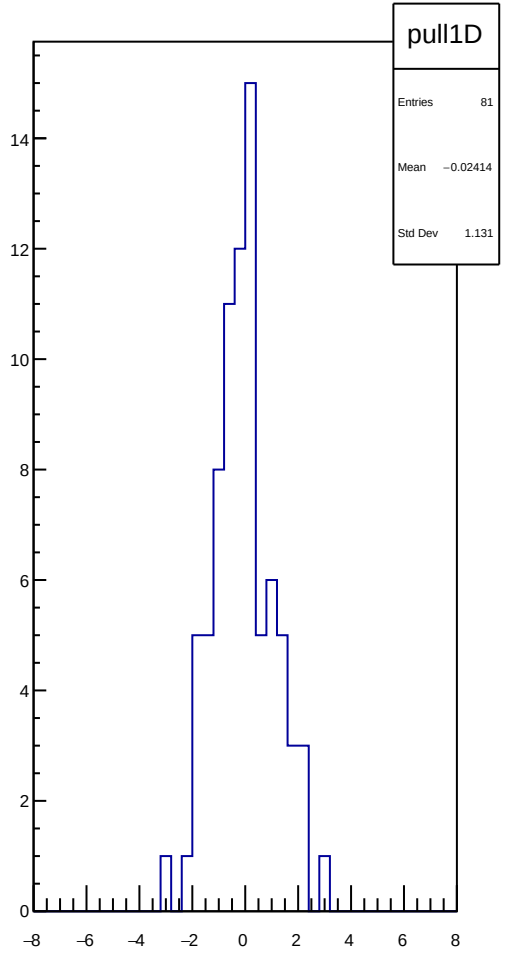

pull1D
Entries 81
Mean −0.005157
Std Dev 0.9552

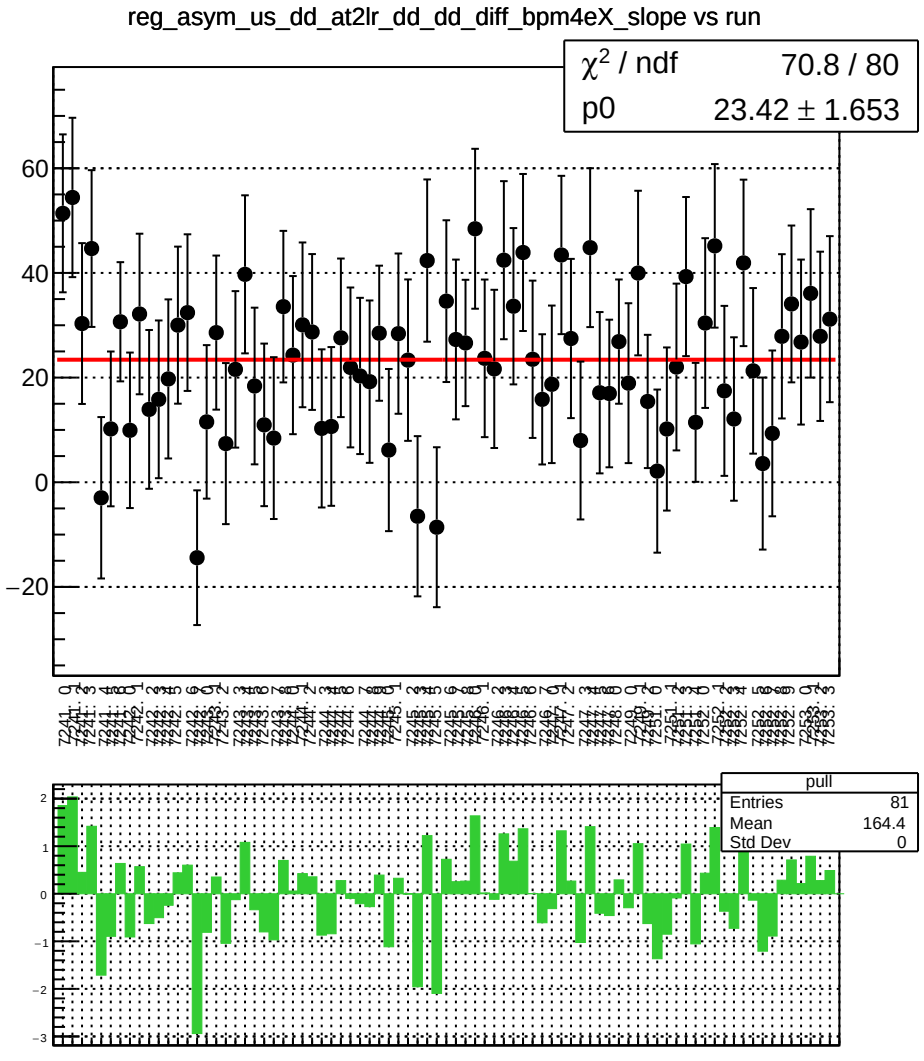

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 80.1 / 80
p0 0.2037 ± 2.064
pull
Entries 81
Mean 58.55
Std Dev 0
pull1D
Entries 81
Mean −0.01016
Std Dev 0.9944

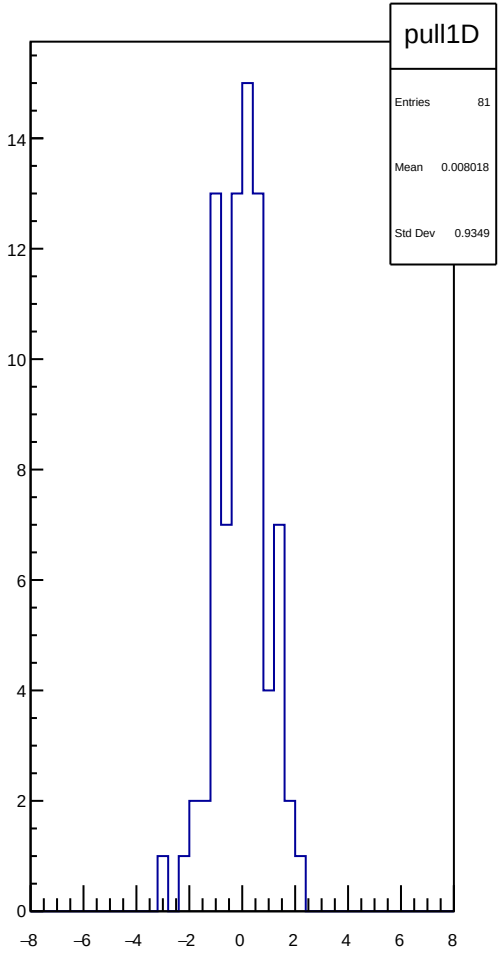

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 64.59 / 80
p0 5.832 ± 0.09202
pull
Entries 81
Mean 2784
Std Dev 0
pull1D
Entries 81
Mean 0.000703
Std Dev 0.893

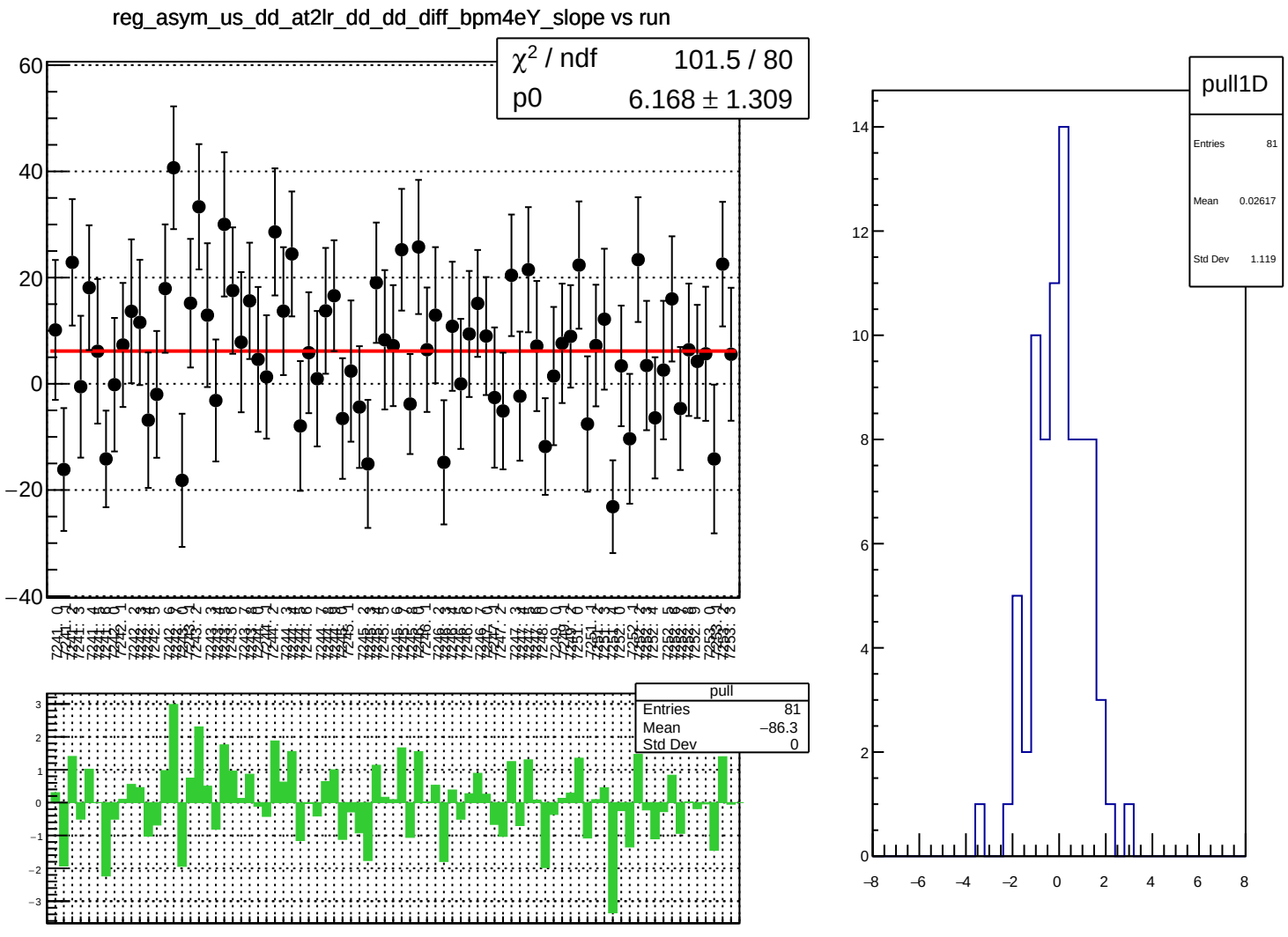

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 69.62 / 80
p0 −4.538 ± 1.592
pull
Entries 81
Mean 181
Std Dev 0
pull1D
Entries 81
Mean −0.008702
Std Dev 0.927

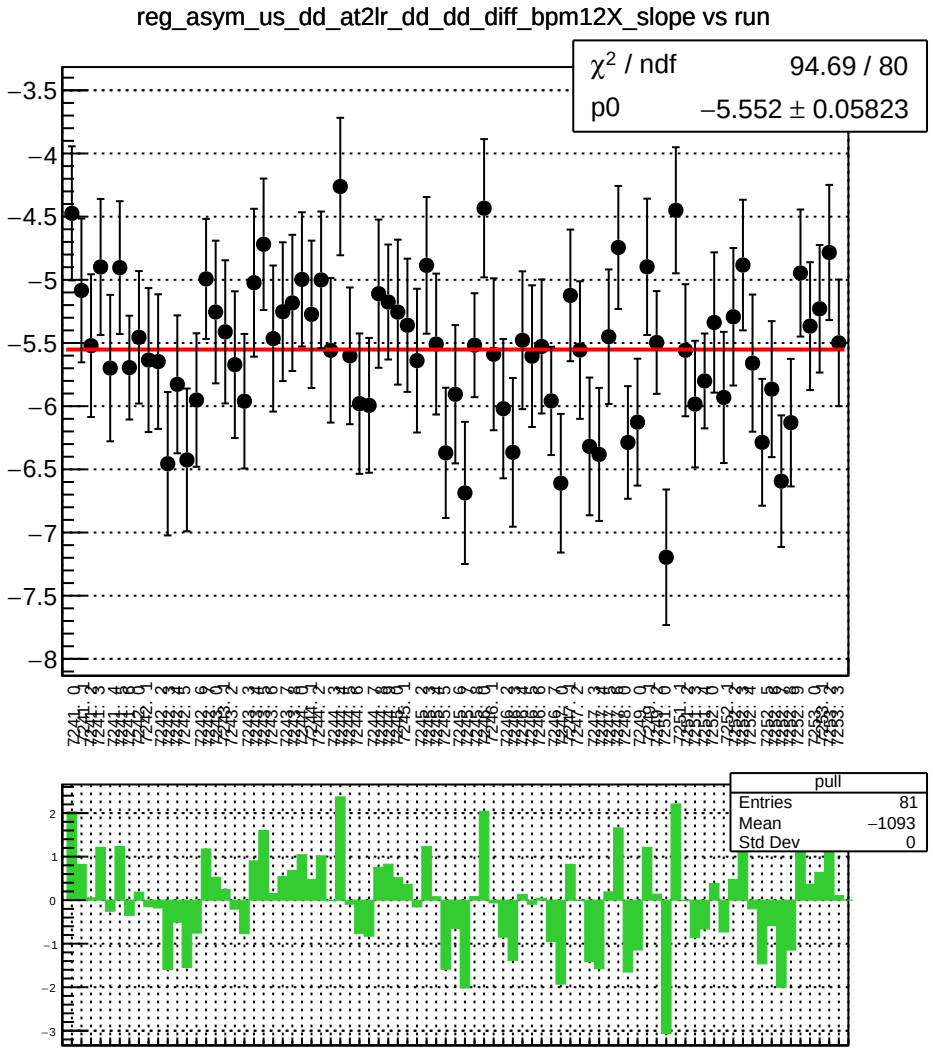

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 103.6 / 80
p0 −1.729 ± 1.219
pull
Entries 81
Mean −73.73
Std Dev 0

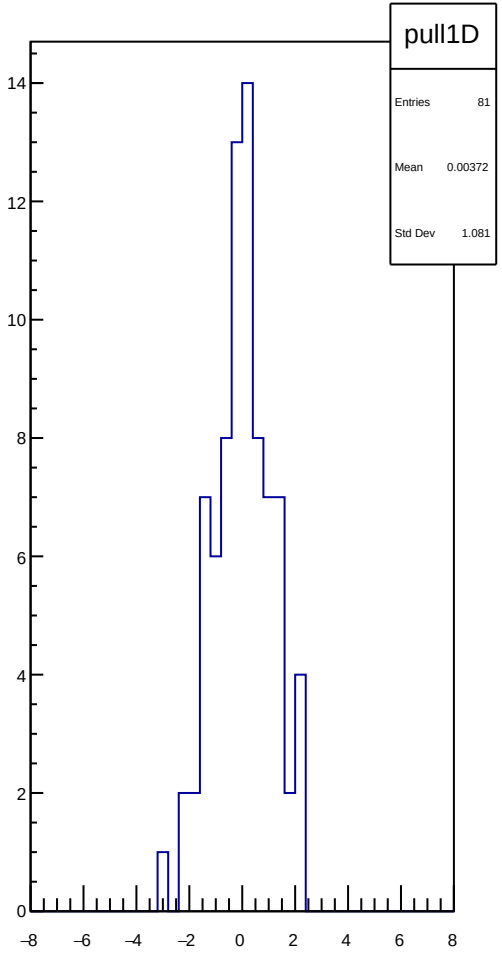

pull1D
Entries 81
Mean −0.02414
Std Dev 1.131

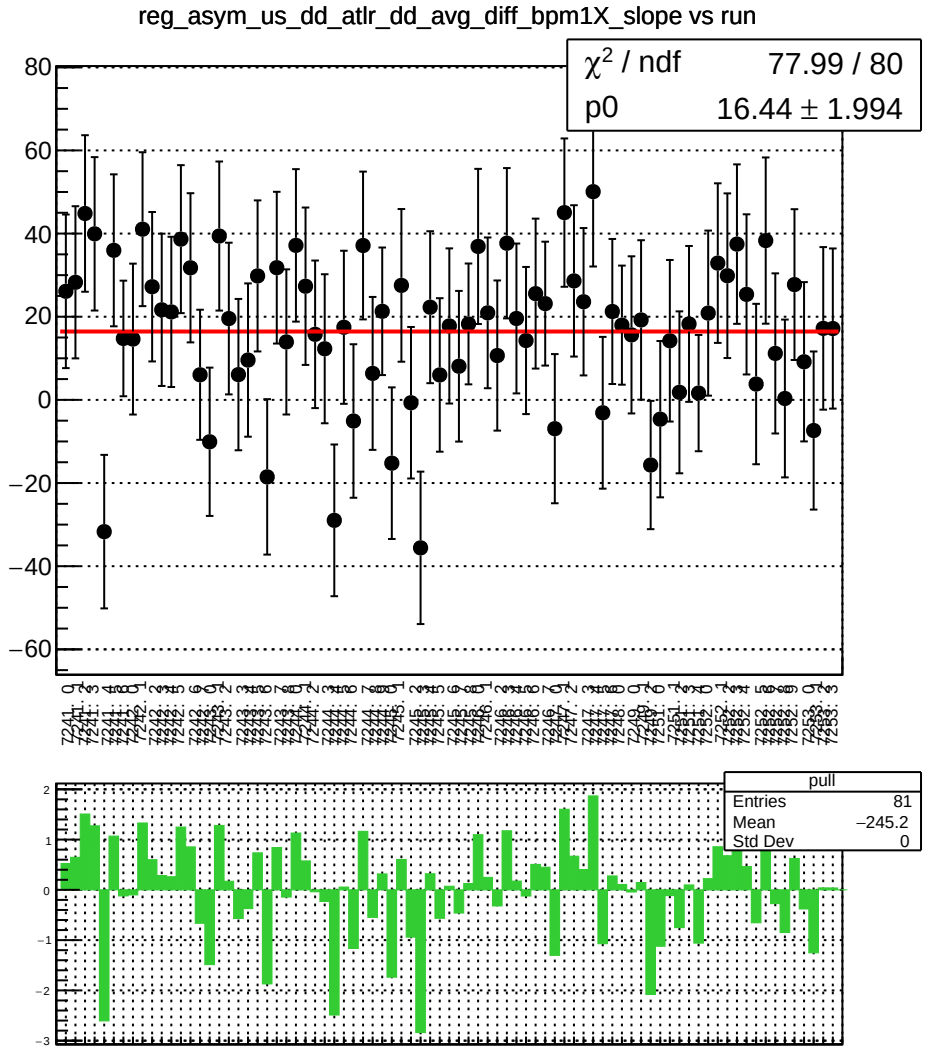

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 70.8 / 80
p0 23.42 ± 1.653
pull
Entries 81
Mean 164.4
Std Dev 0

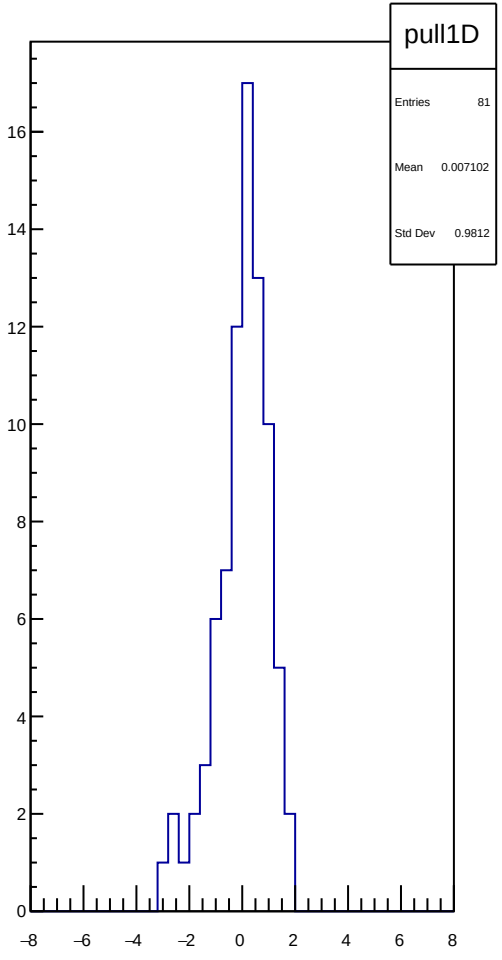

pull1D
Entries 81
Mean 0.008018
Std Dev 0.9349

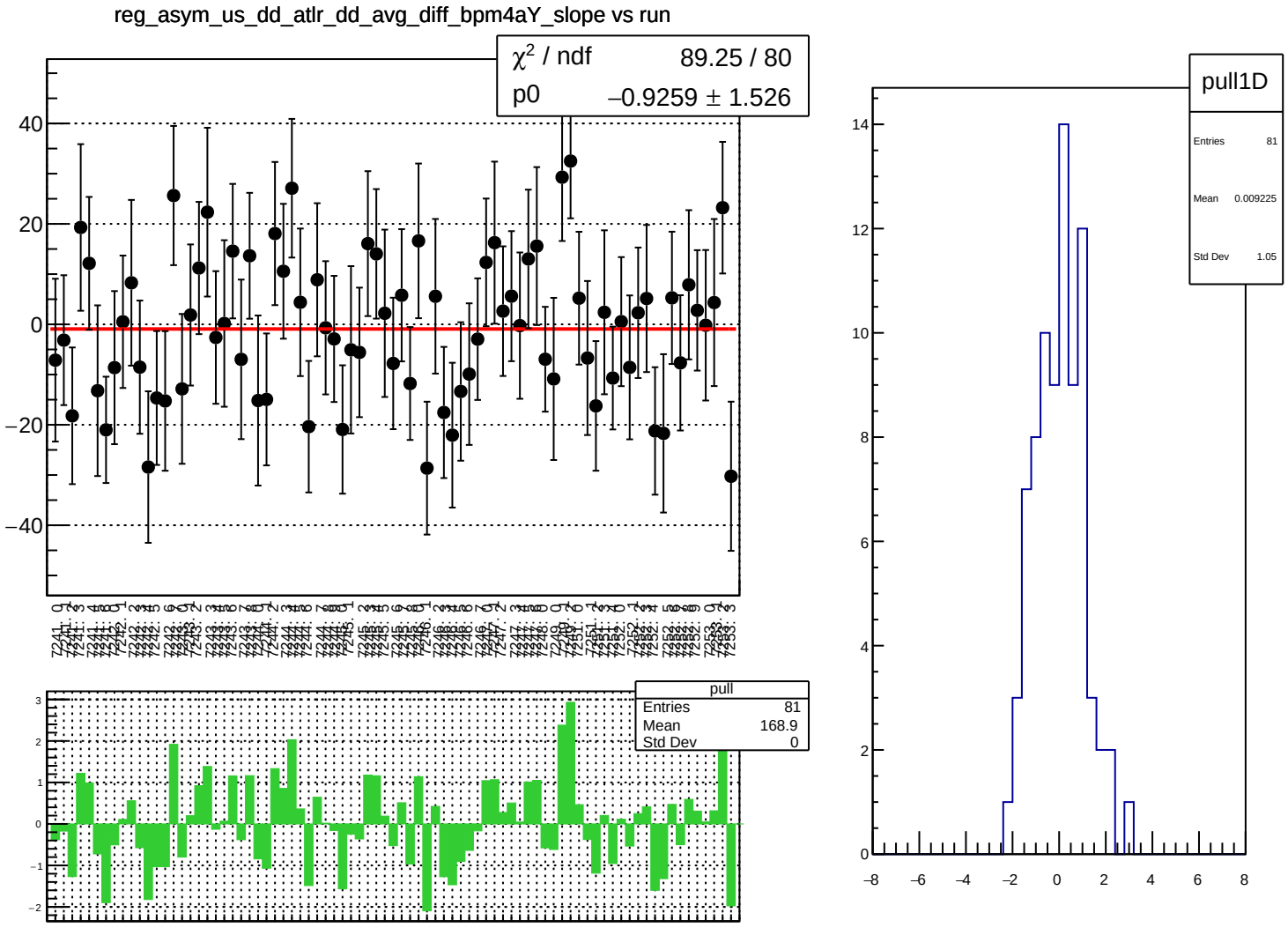

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 101.5 / 80
p0 6.168 ± 1.309
pull
Entries 81
Mean −86.3
Std Dev 0
pull1D
Entries 81
Mean 0.02617
Std Dev 1.119

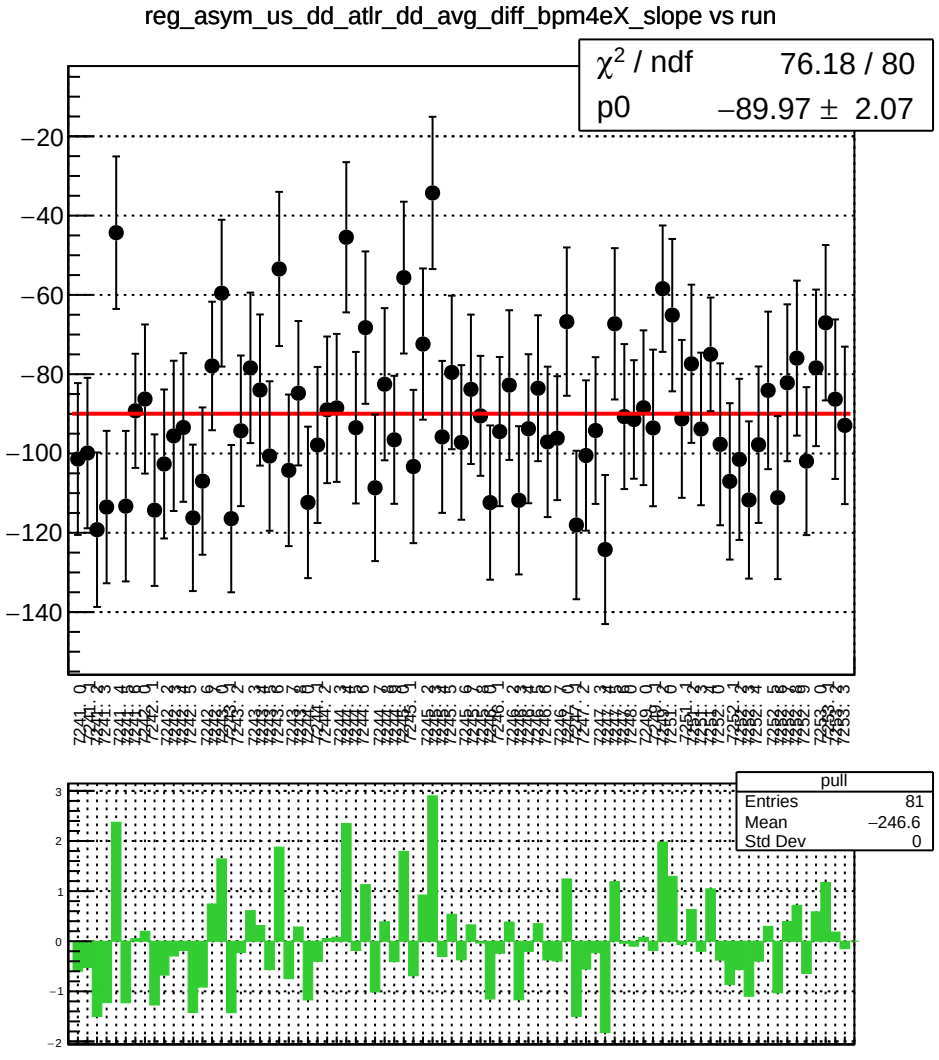

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 94.69 / 80
p0 −5.552 ± 0.05823
pull
Entries 81
Mean −1093
Std Dev 0

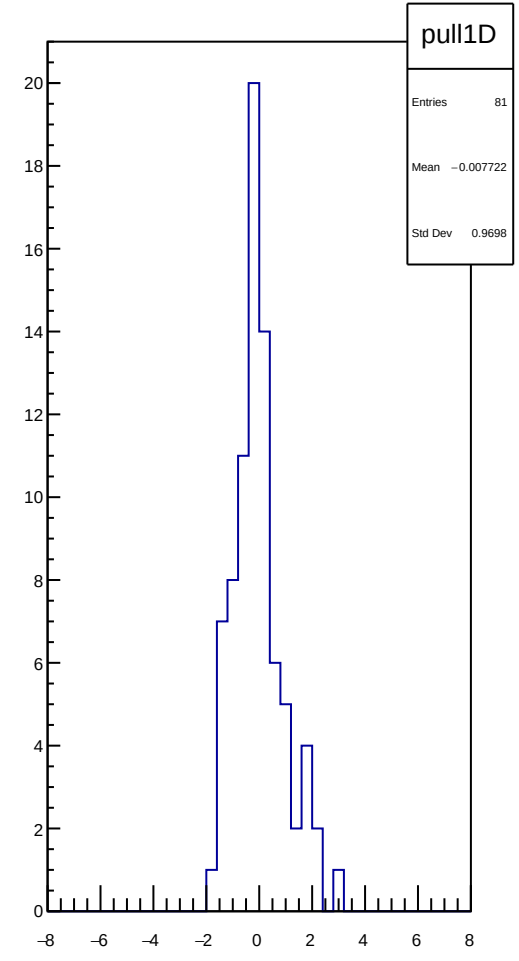

pull1D
Entries 81
Mean 0.00372
Std Dev 1.081

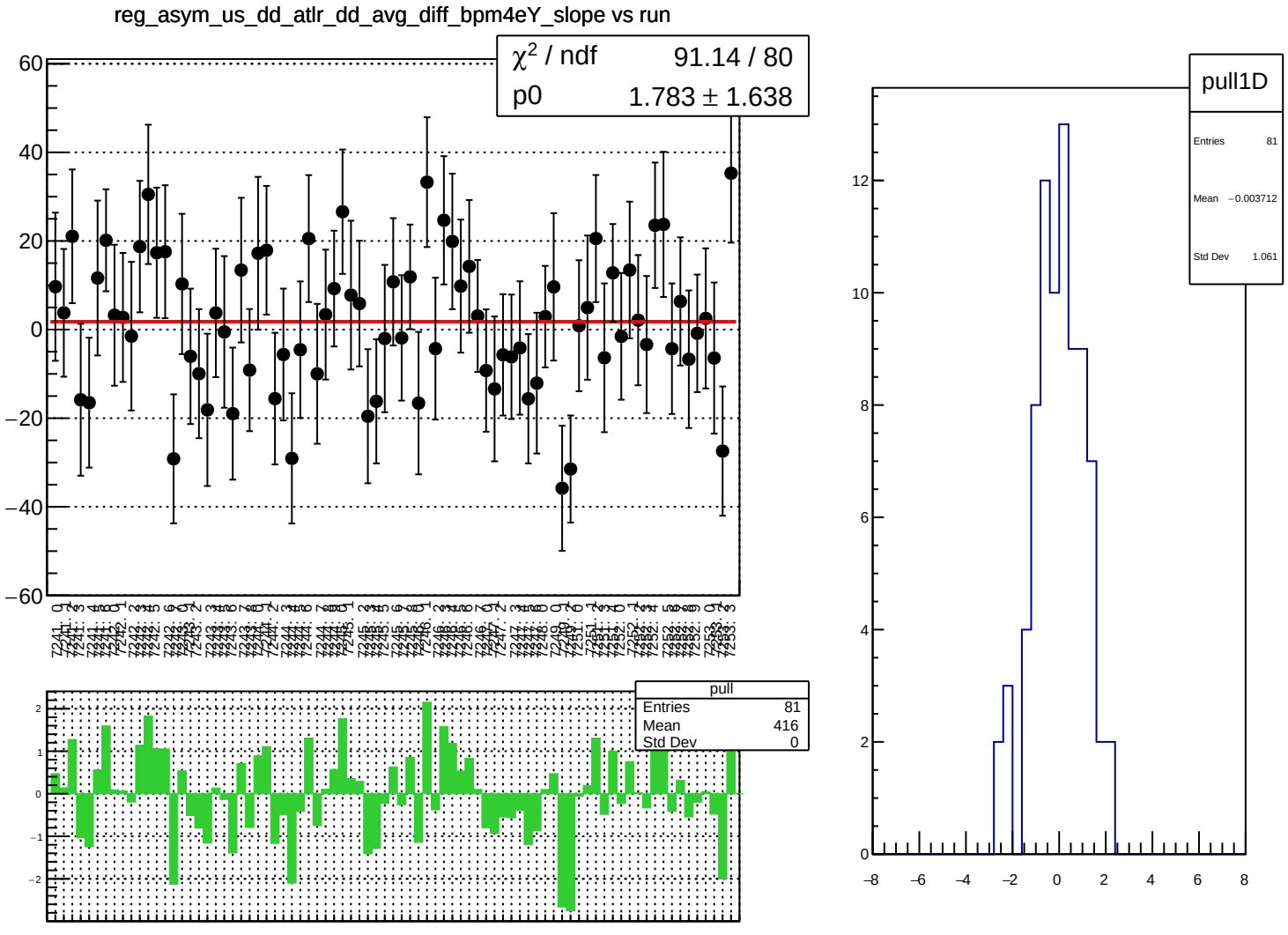

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 77.99 / 80
p0 16.44 ± 1.994
pull
Entries 81
Mean −245.2
Std Dev 0

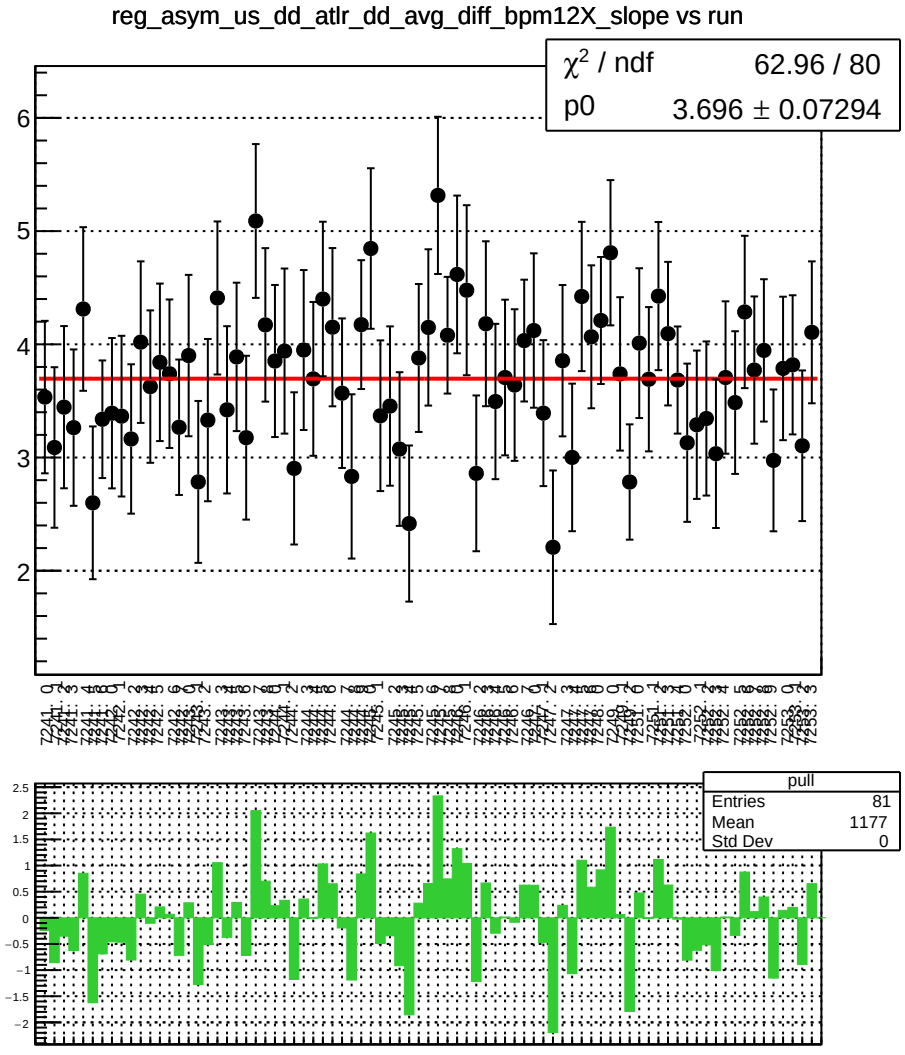

pull1D
Entries 81
Mean 0.007102
Std Dev 0.9812

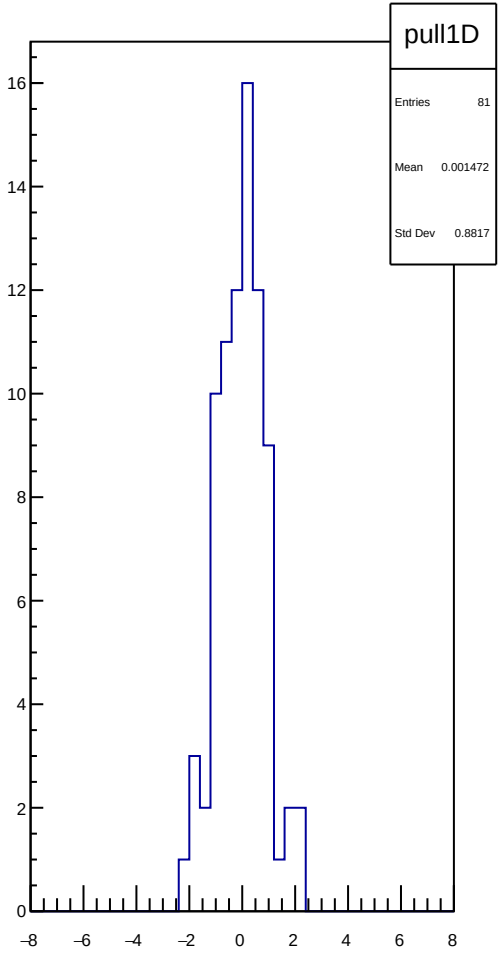

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 89.25 / 80
p0 −0.9259 ± 1.526
pull
Entries 81
Mean 168.9
Std Dev 0
pull1D
Entries 81
Mean 0.009225
Std Dev 1.05

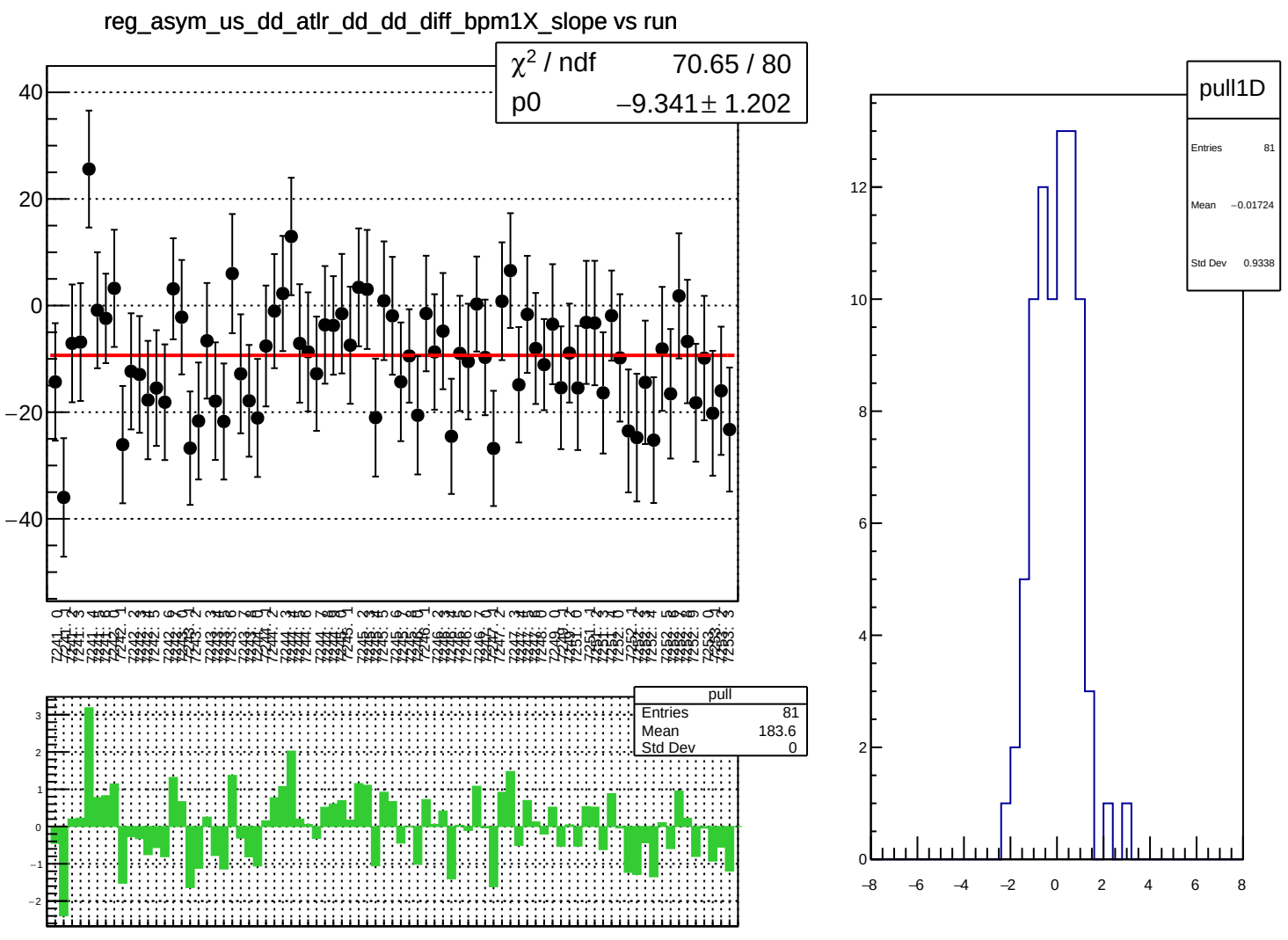

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 76.18 / 80
p0 −89.97 ± 2.07
pull
Entries 81
Mean −246.6
Std Dev 0

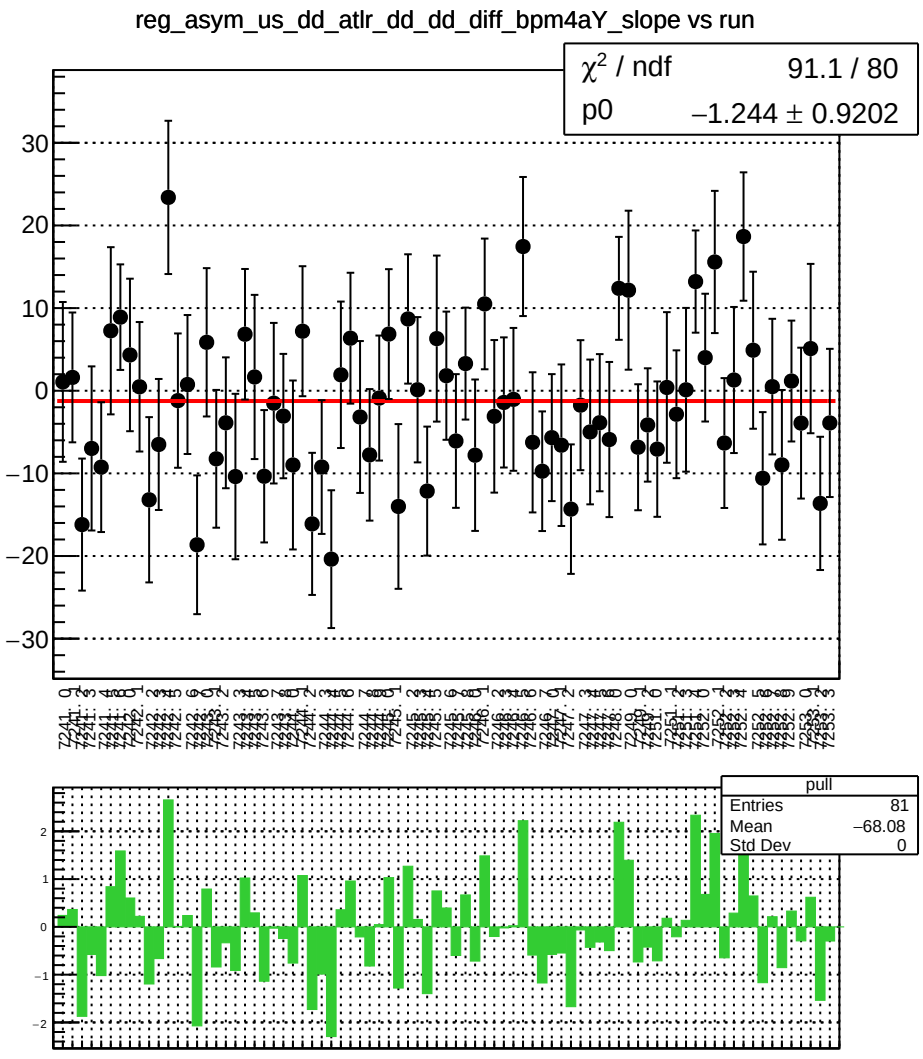

pull1D
Entries 81
Mean −0.007722
Std Dev 0.9698

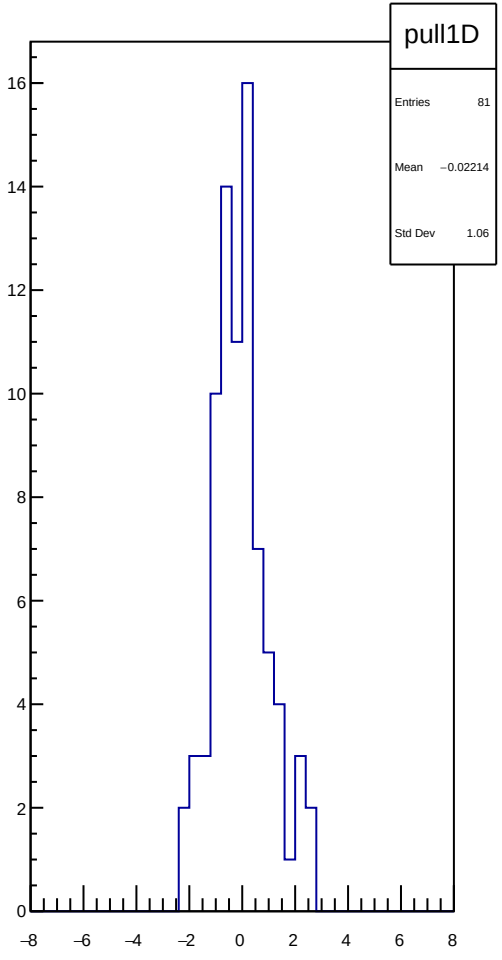

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 91.14 / 80
p0 1.783 ± 1.638
pull
Entries 81
Mean 416
Std Dev 0
pull1D
Entries 81
Mean −0.003712
Std Dev 1.061

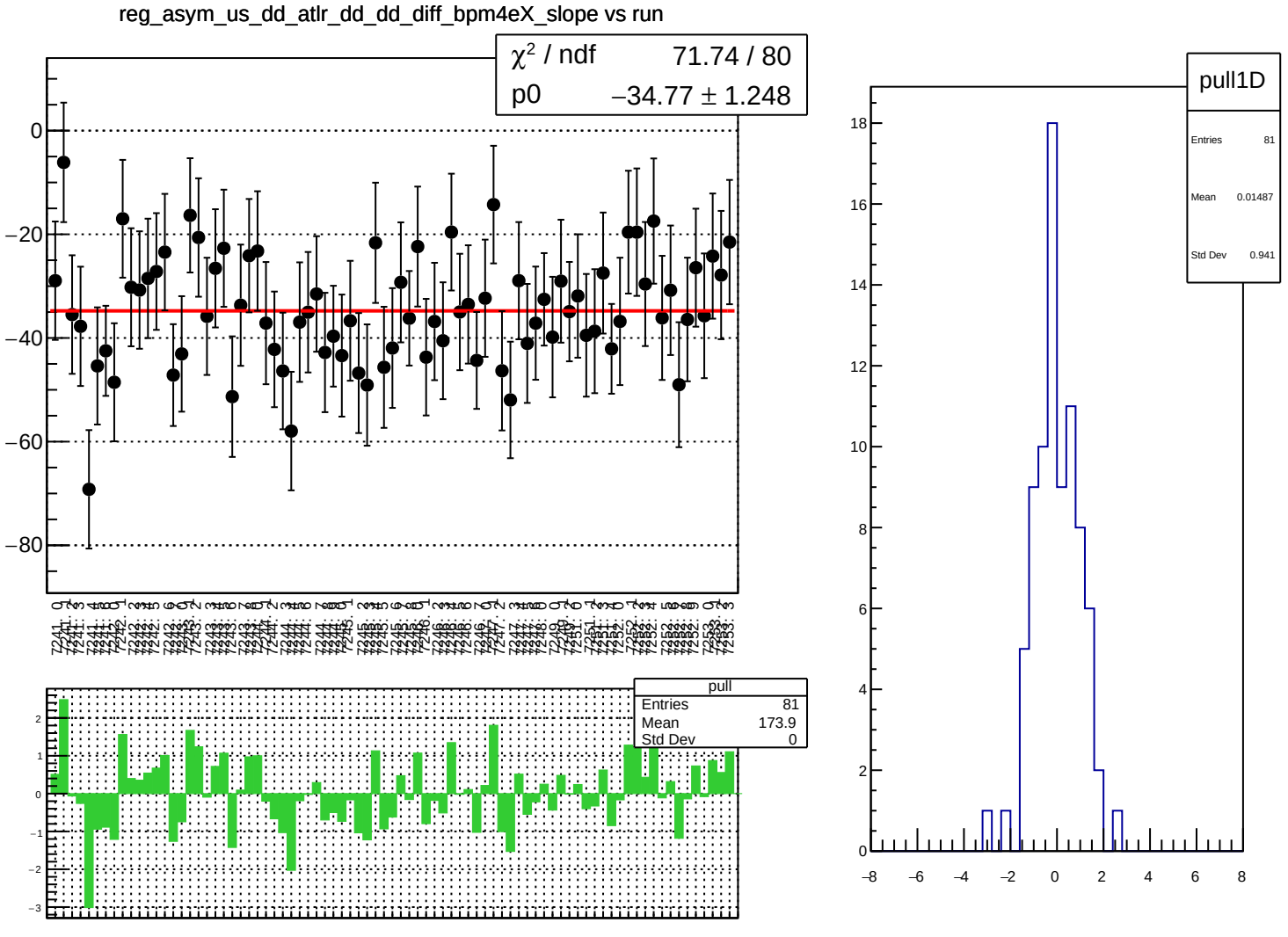

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 62.96 / 80
p0 3.696 ± 0.07294
pull
Entries 81
Mean 1177
Std Dev 0

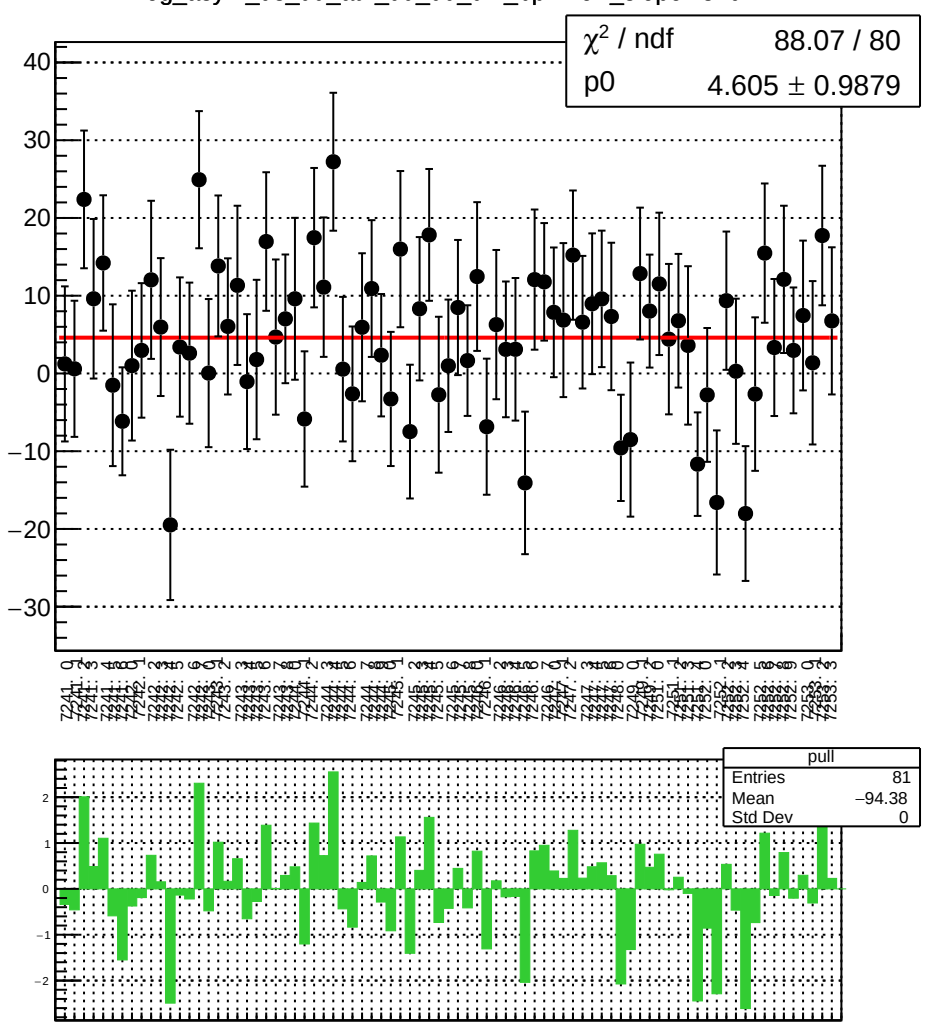

pull1D
Entries 81
Mean 0.001472
Std Dev 0.8817

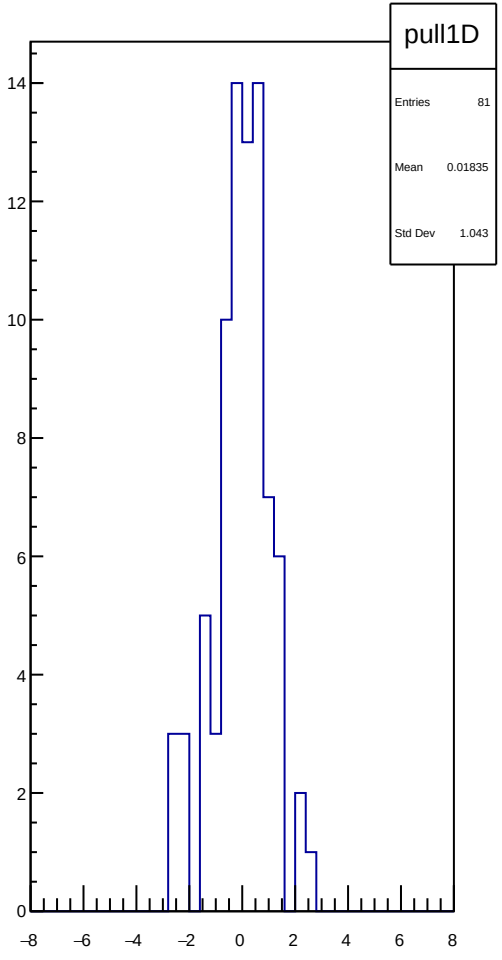

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 70.65 / 80
p0 −9.341 ± 1.202
pull
Entries 81
Mean 183.6
Std Dev 0
pull1D
Entries 81
Mean −0.01724
Std Dev 0.9338

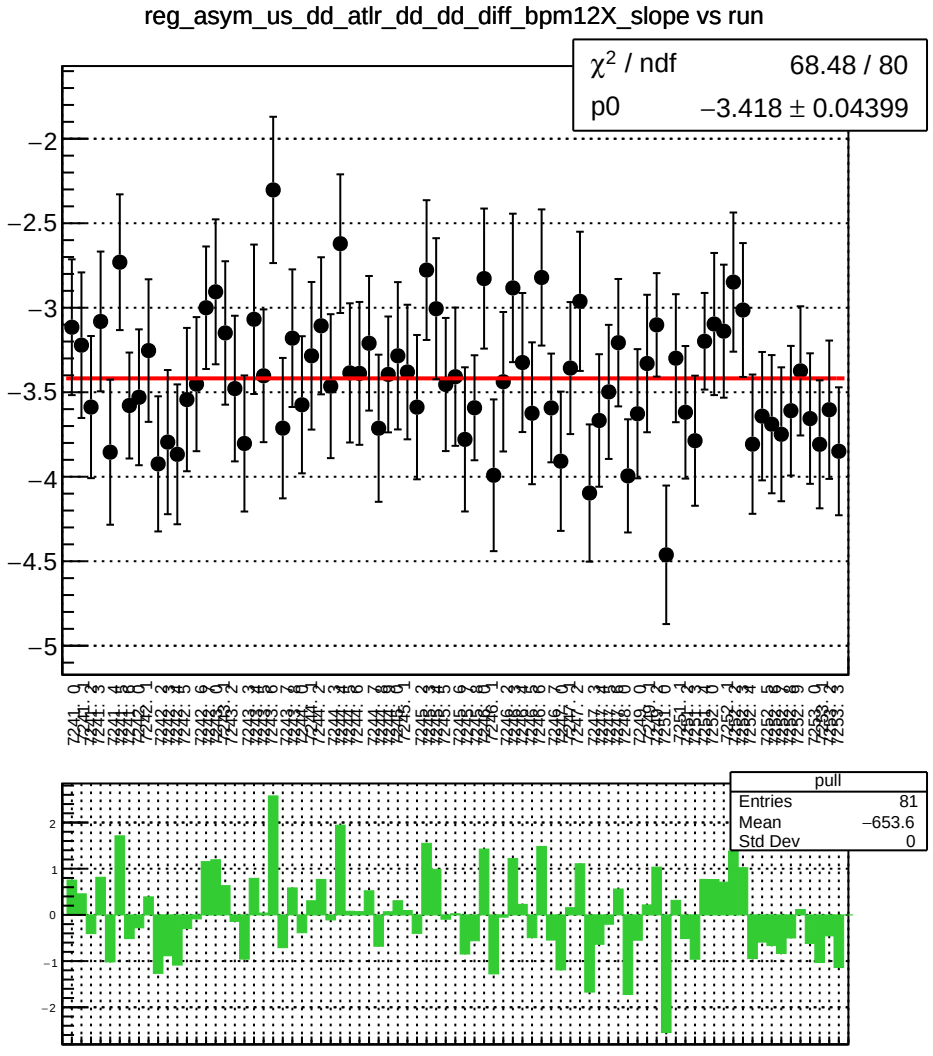

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 91.1 / 80
p0 −1.244 ± 0.9202
pull
Entries 81
Mean −68.08
Std Dev 0

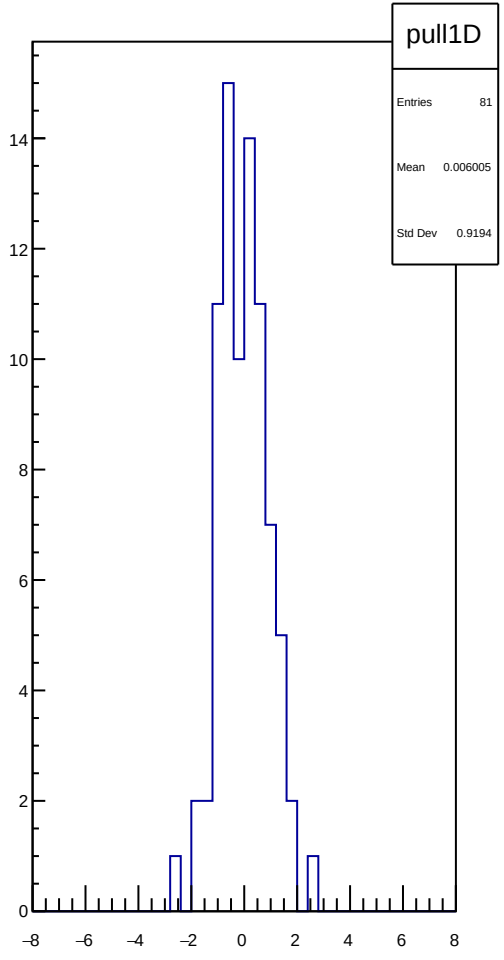

pull1D
Entries 81
Mean −0.02214
Std Dev 1.06

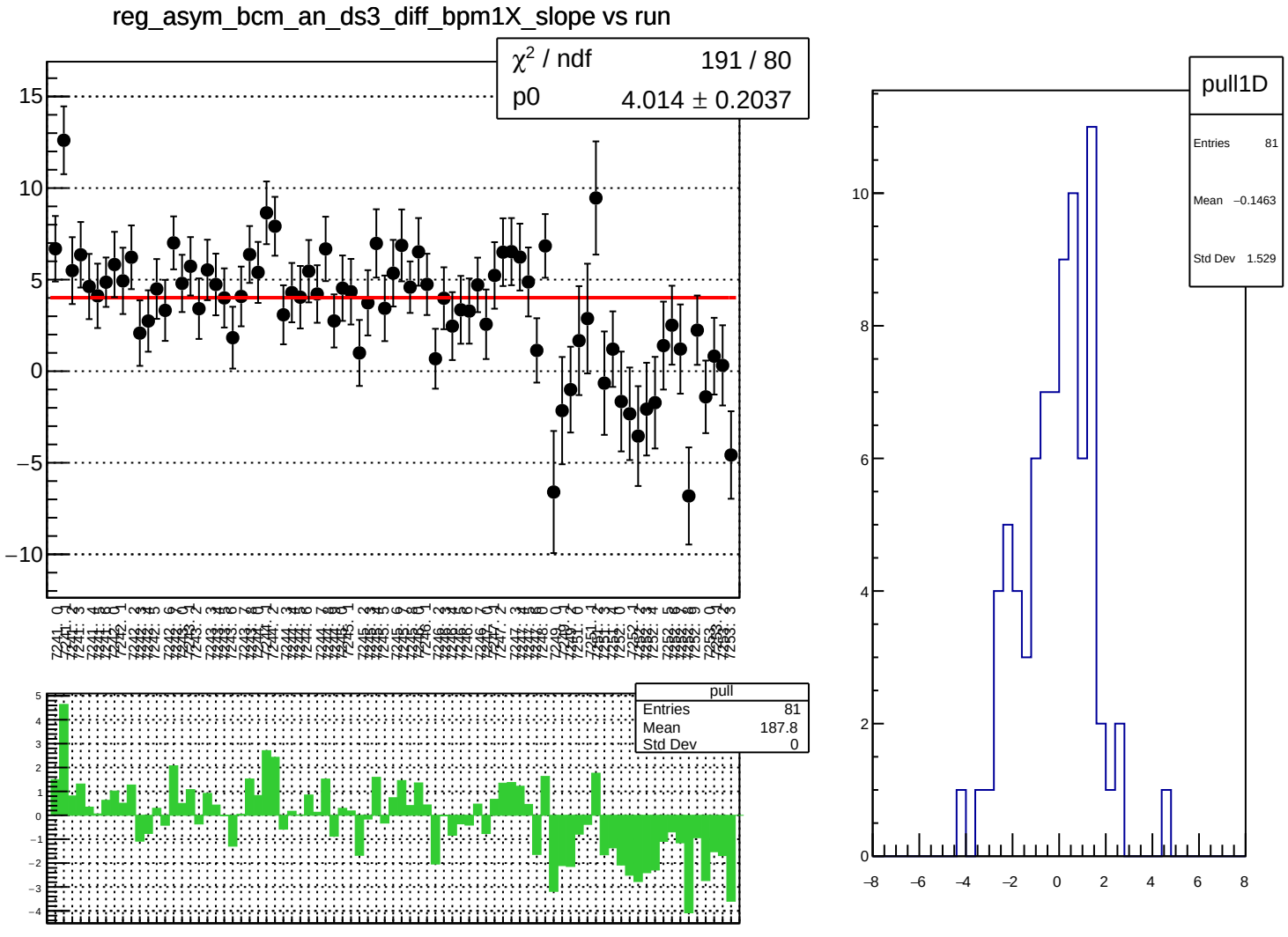

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 71.74 / 80
p0 −34.77 ± 1.248
pull
Entries 81
Mean 173.9
Std Dev 0
pull1D
Entries 81
Mean 0.01487
Std Dev 0.941

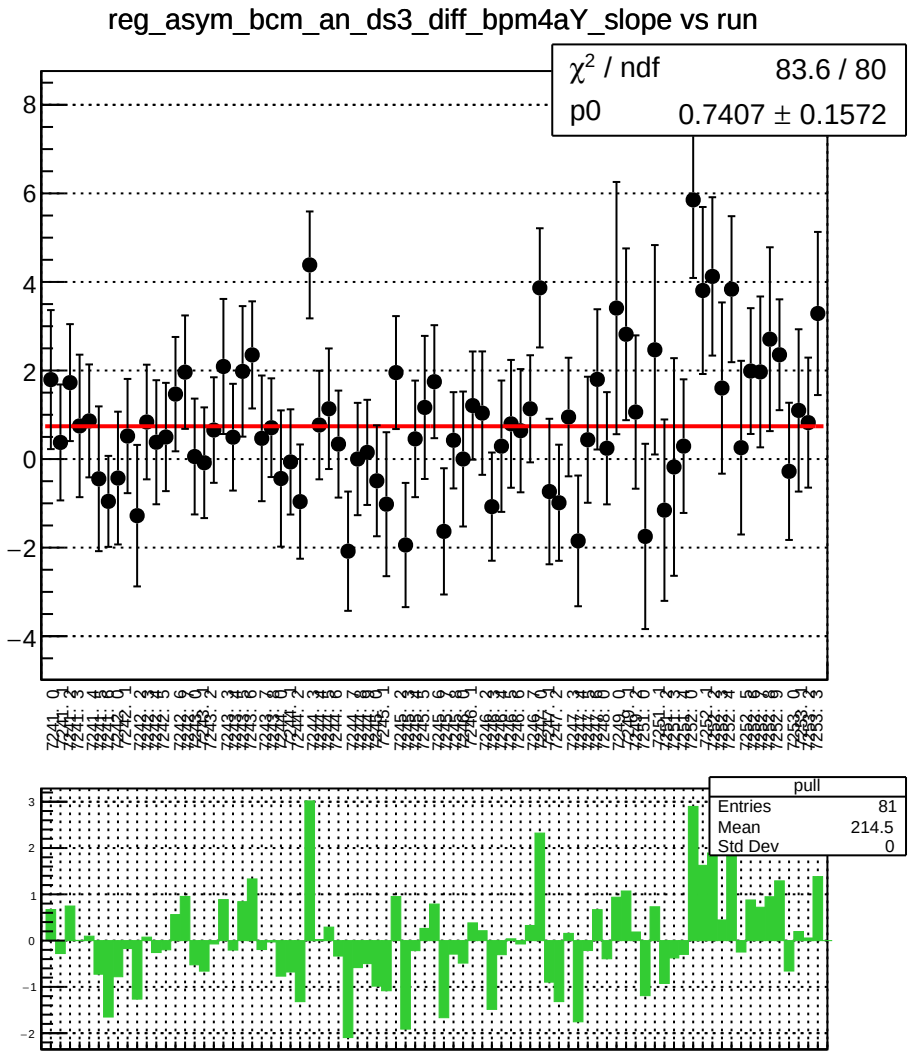

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 88.07 / 80
p0 4.605 ± 0.9879
pull
Entries 81
Mean −94.38
Std Dev 0

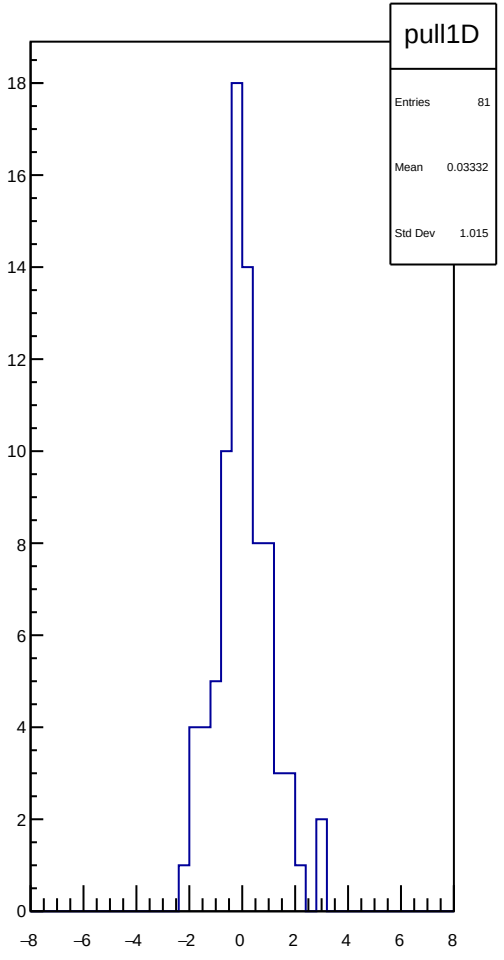

pull1D
Entries 81
Mean 0.01835
Std Dev 1.043

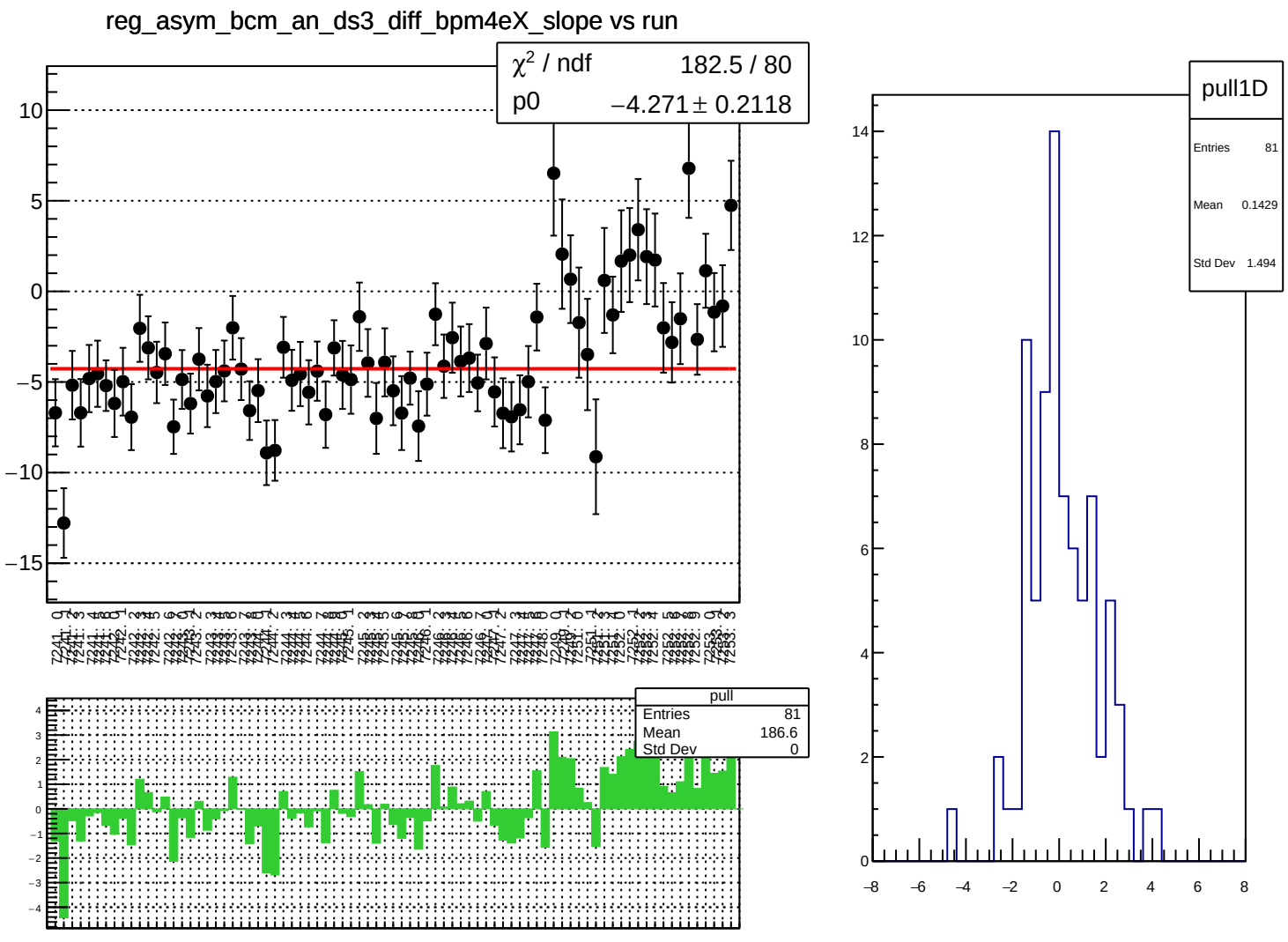

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 68.48 / 80
p0 −3.418 ± 0.04399
pull
Entries 81
Mean −653.6
Std Dev 0

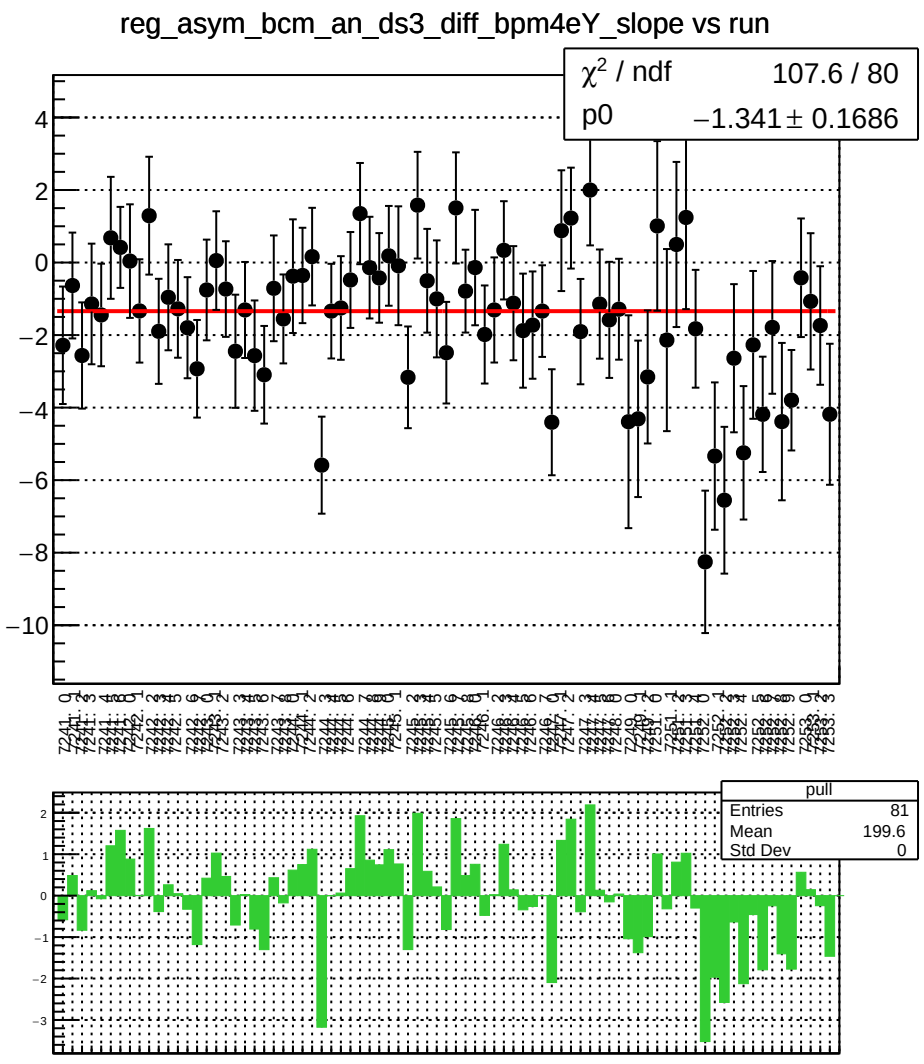

pull1D
Entries 81
Mean 0.006005
Std Dev 0.9194

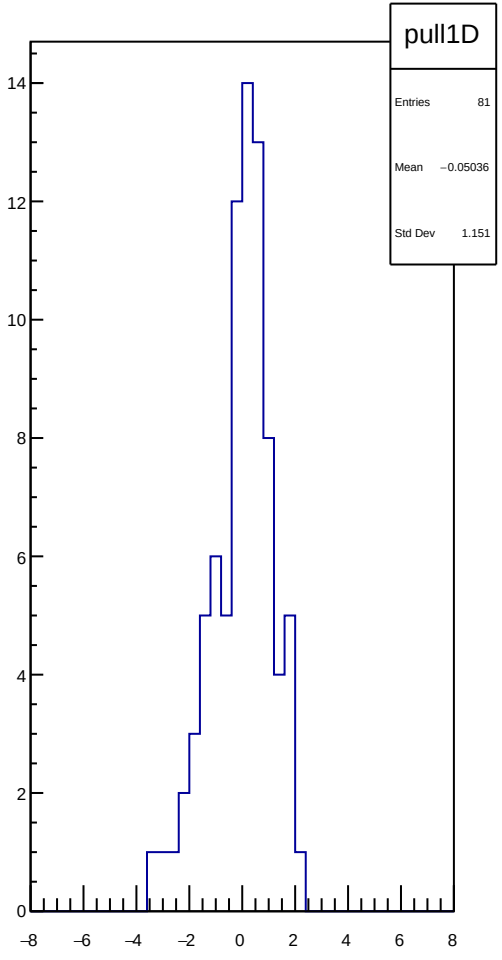

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 191 / 80
p0 4.014 ± 0.2037
pull
Entries 81
Mean 187.8
Std Dev 0
pull1D
Entries 81
Mean −0.1463
Std Dev 1.529

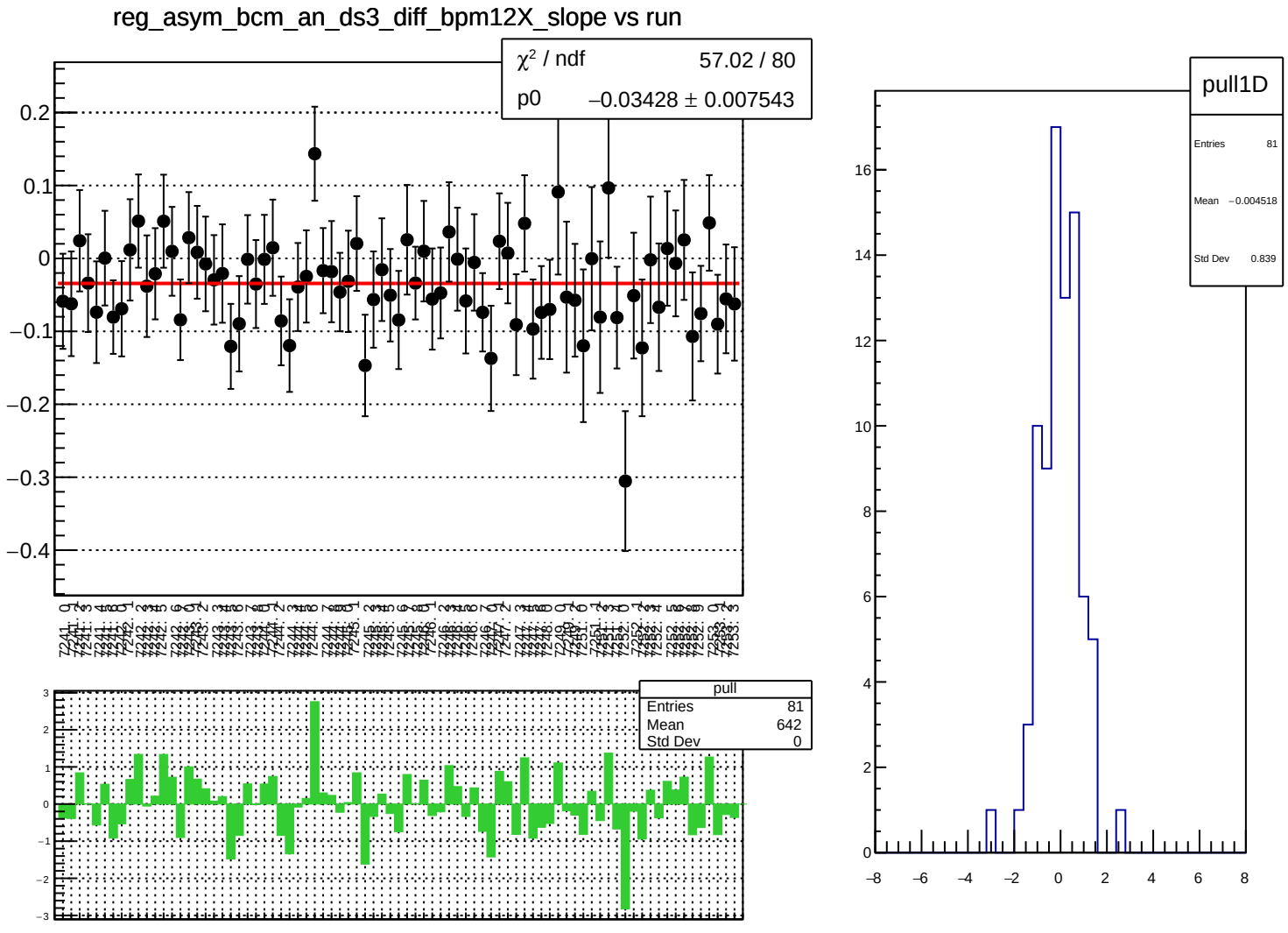

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 83.6 / 80
p0 0.7407 ± 0.1572
pull
Entries 81
Mean 214.5
Std Dev 0

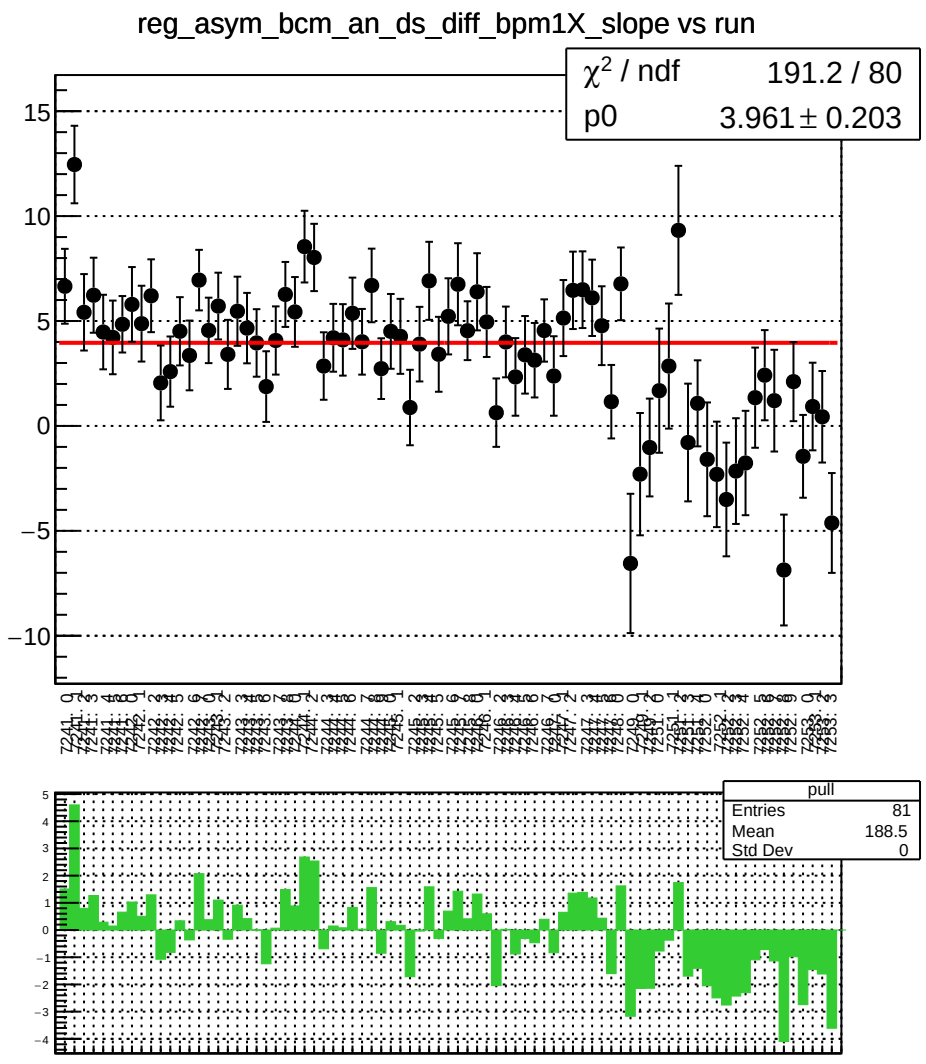

pull1D
Entries 81
Mean 0.03332
Std Dev 1.015

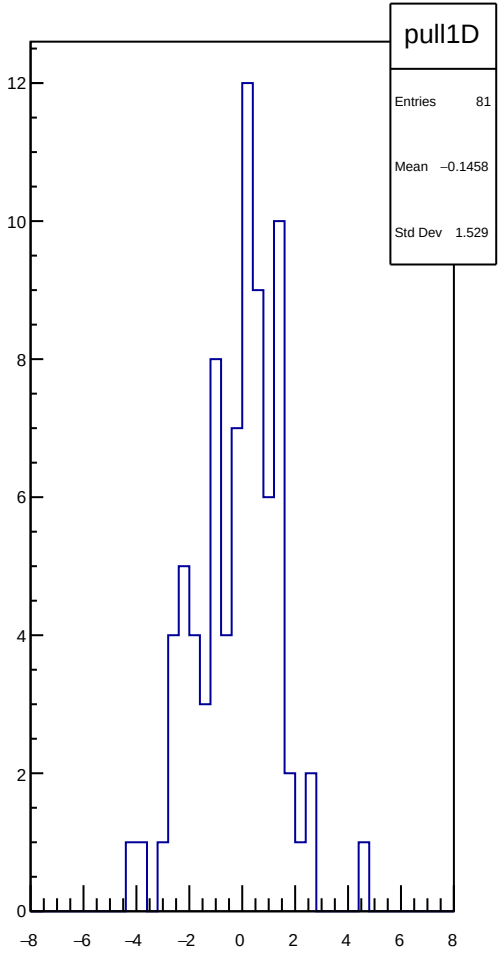

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 182.5 / 80
p0 −4.271 ± 0.2118
pull
Entries 81
Mean 186.6
Std Dev 0
pull1D
Entries 81
Mean 0.1429
Std Dev 1.494

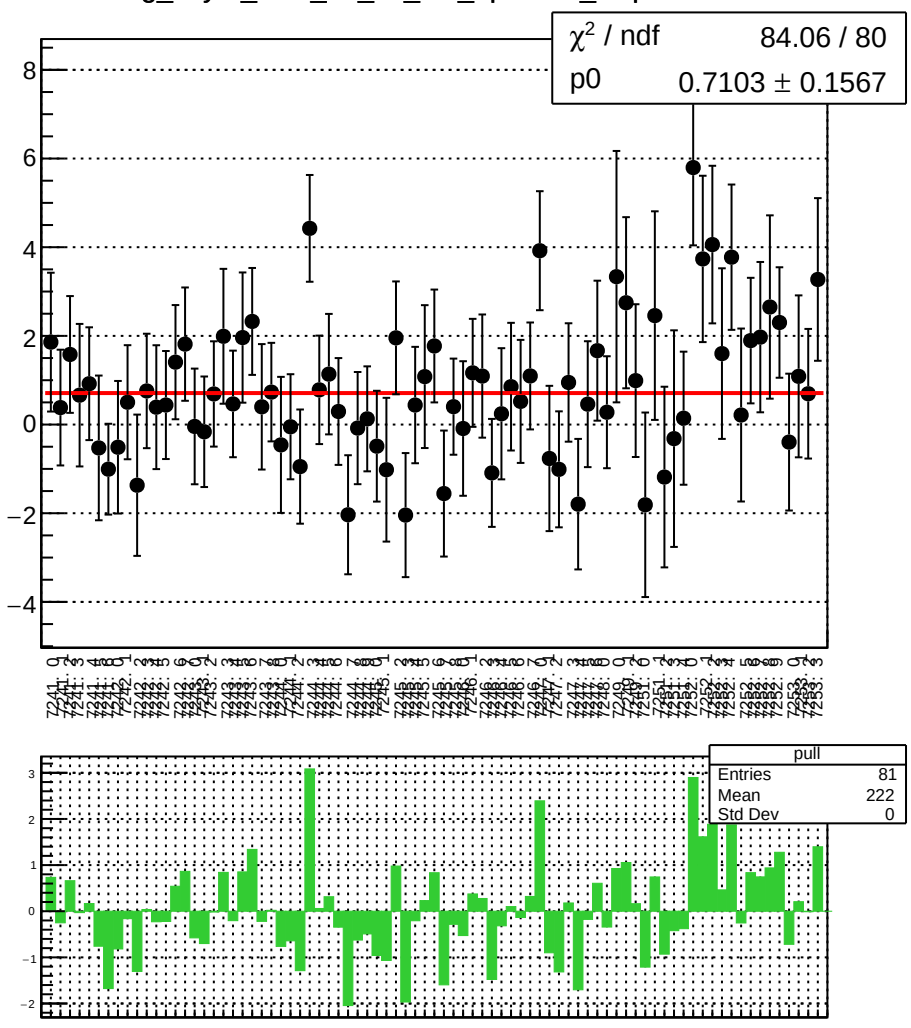

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 107.6 / 80
p0 −1.341 ± 0.1686
pull
Entries 81
Mean 199.6
Std Dev 0

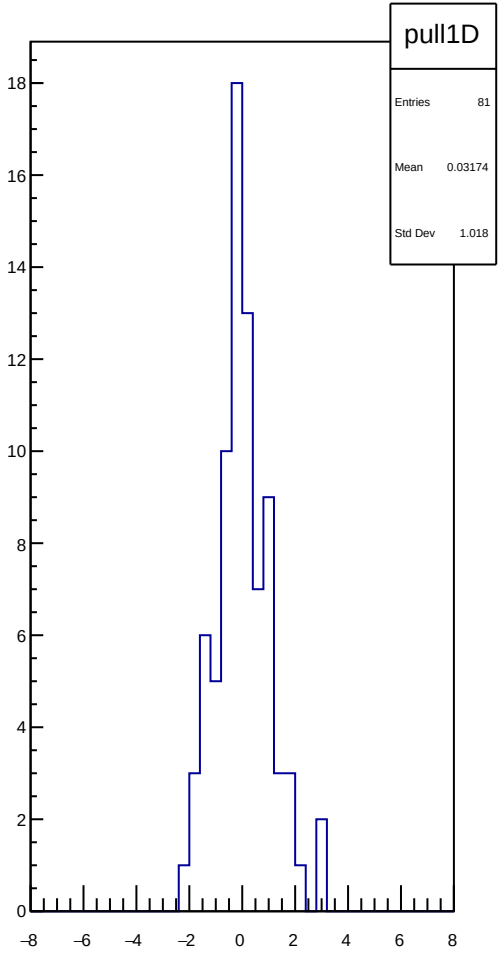

pull1D
Entries 81
Mean −0.05036
Std Dev 1.151

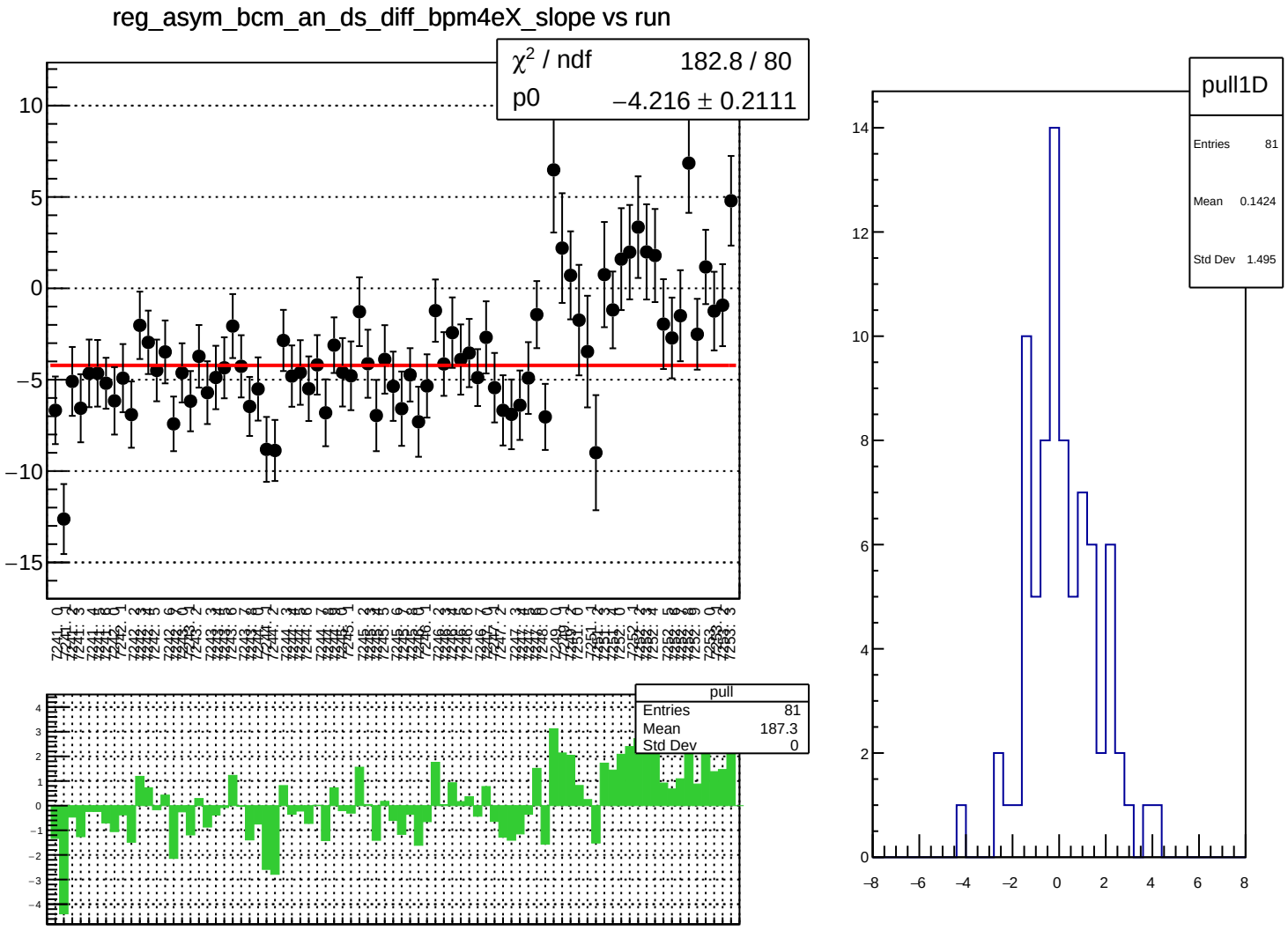

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 57.02 / 80
p0 −0.03428 ± 0.007543
pull
Entries 81
Mean 642
Std Dev 0
pull1D
Entries 81
Mean −0.004518
Std Dev 0.839

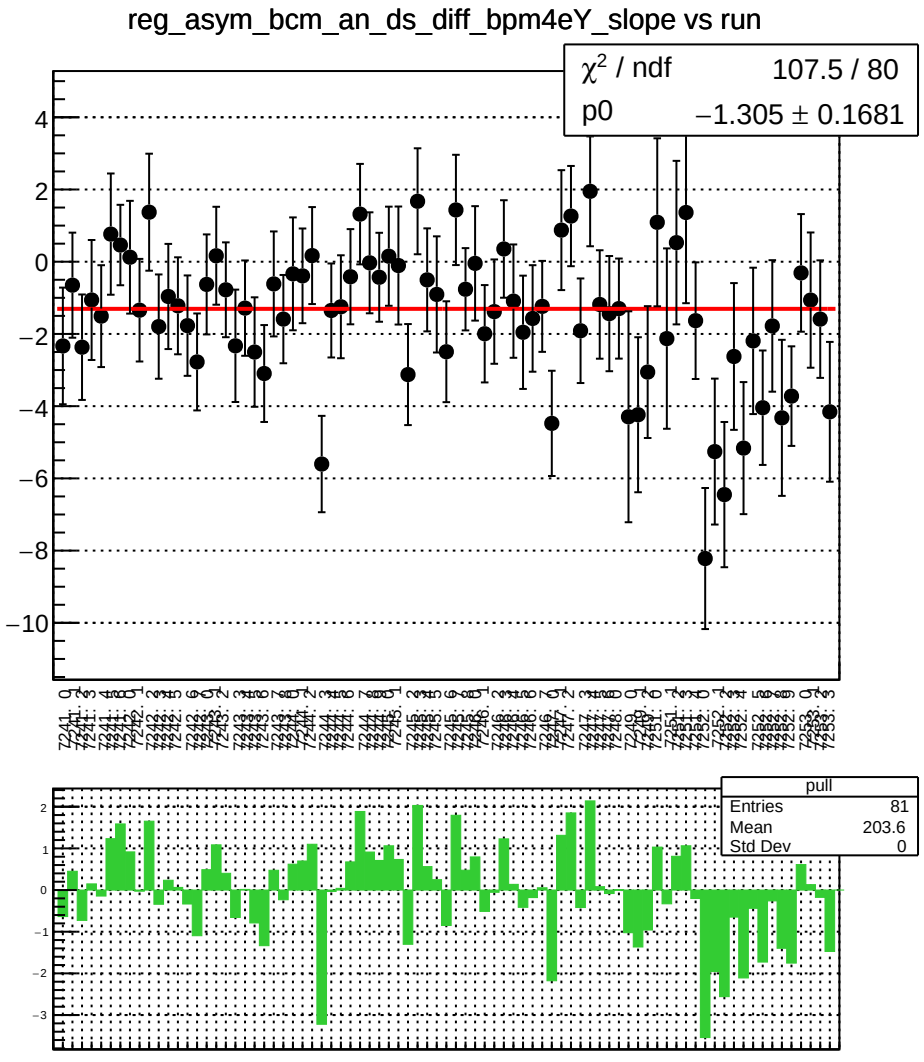

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 191.2 / 80
p0 3.961 ± 0.203
pull
Entries 81
Mean 188.5
Std Dev 0

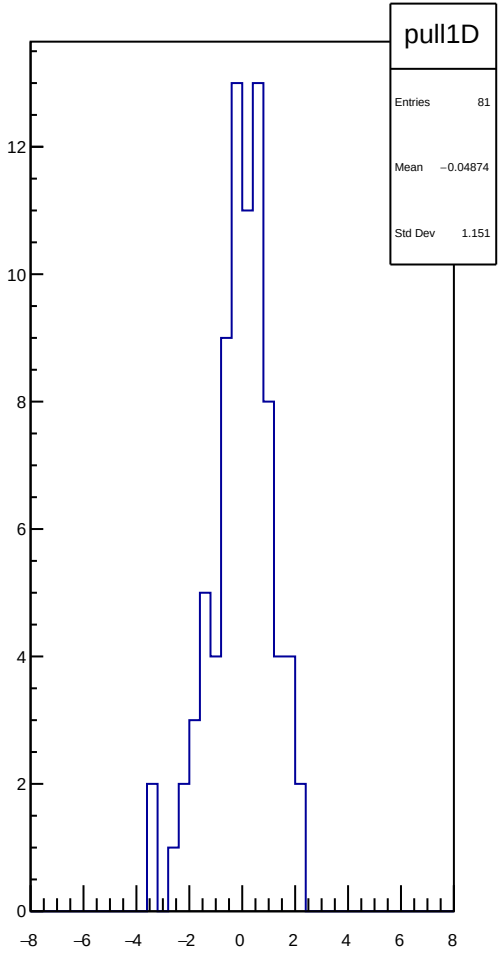

pull1D
Entries 81
Mean −0.1458
Std Dev 1.529

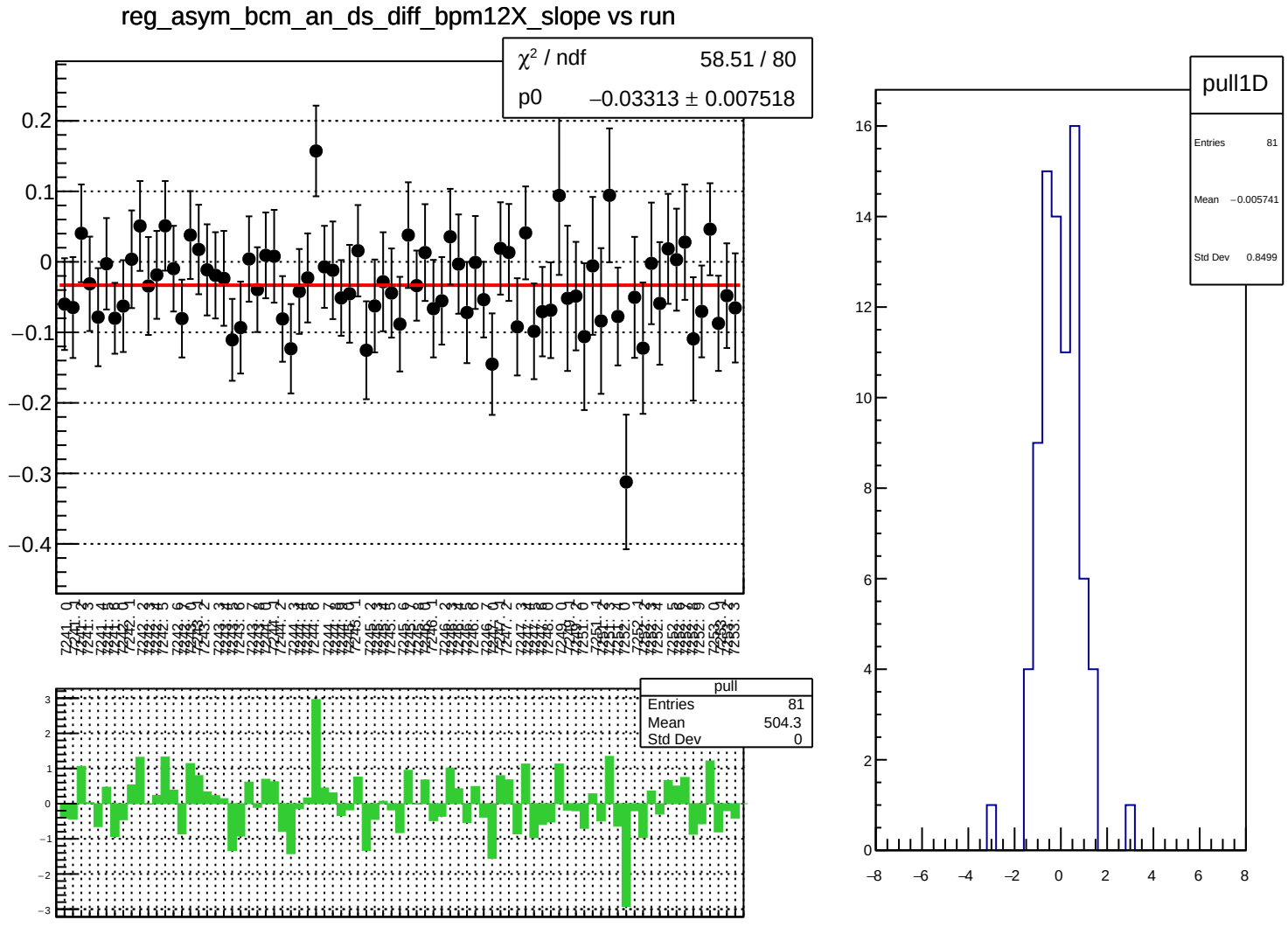

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 84.06 / 80
p0 0.7103 ± 0.1567
pull
Entries 81
Mean 222
Std Dev 0

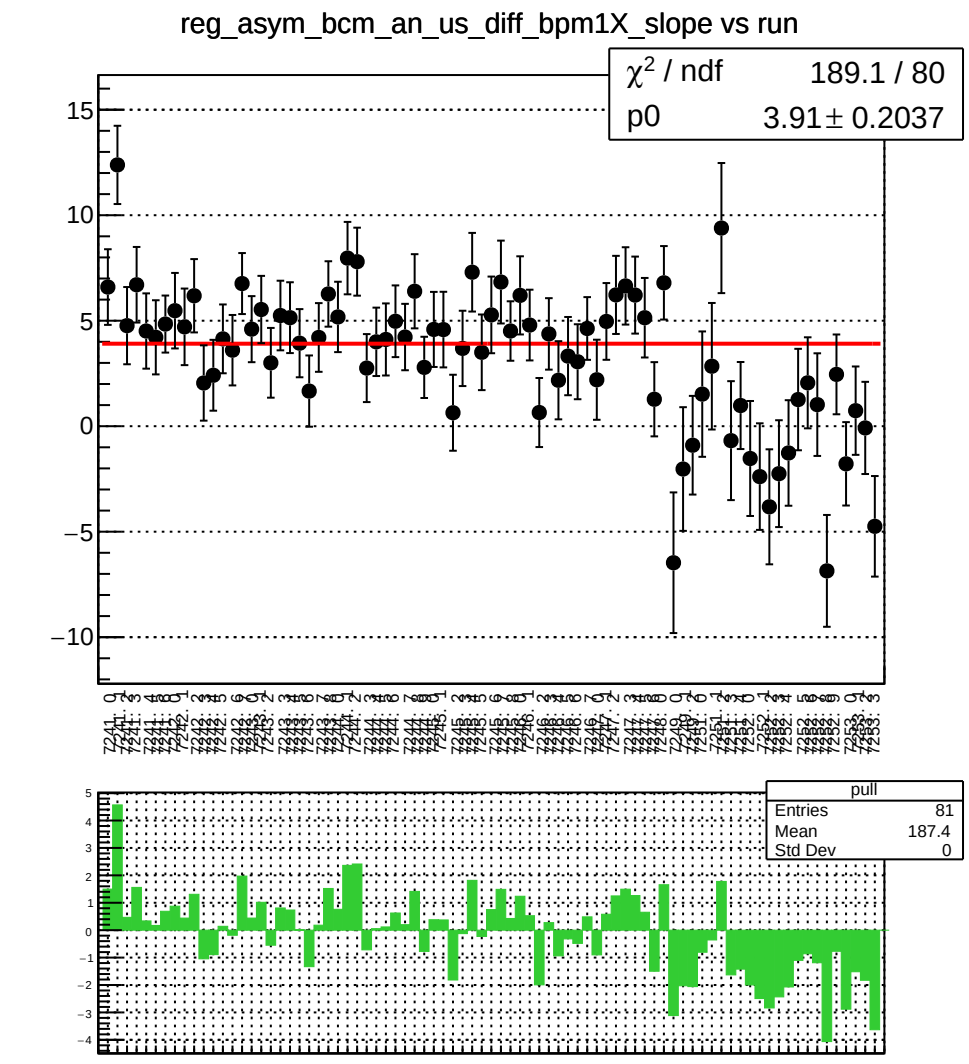

pull1D
Entries 81
Mean 0.03174
Std Dev 1.018

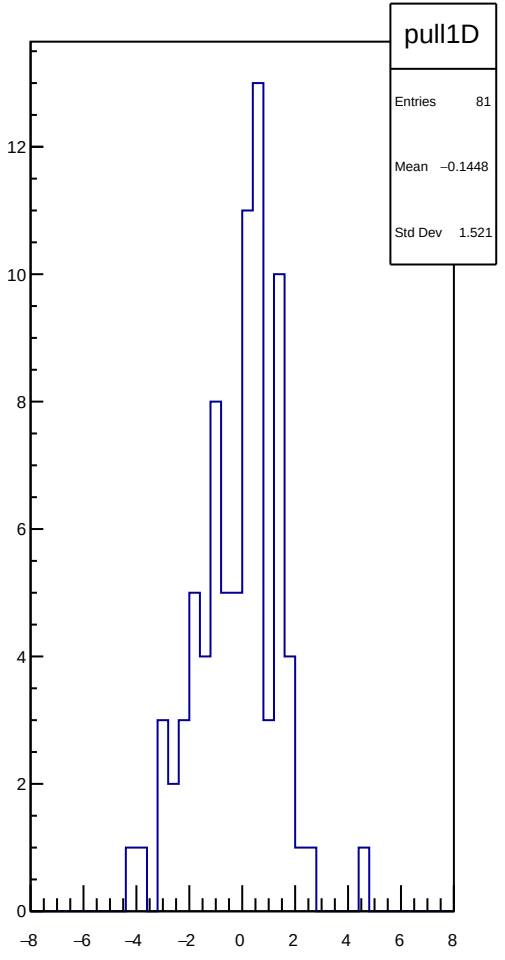

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 182.8 / 80
p0 −4.216 ± 0.2111
pull
Entries 81
Mean 187.3
Std Dev 0
pull1D
Entries 81
Mean 0.1424
Std Dev 1.495

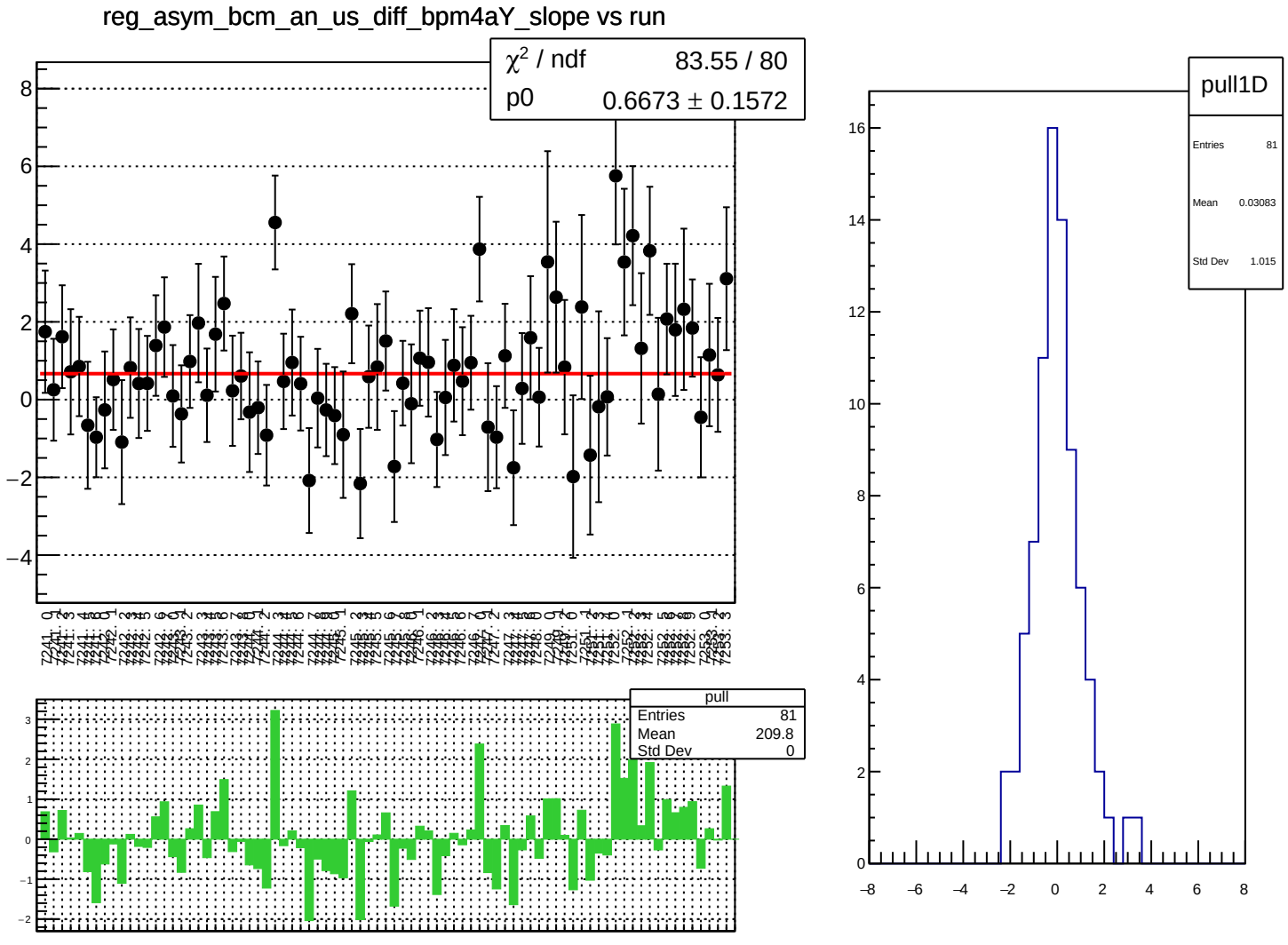

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 107.5 / 80
p0 −1.305 ± 0.1681
pull
Entries 81
Mean 203.6
Std Dev 0

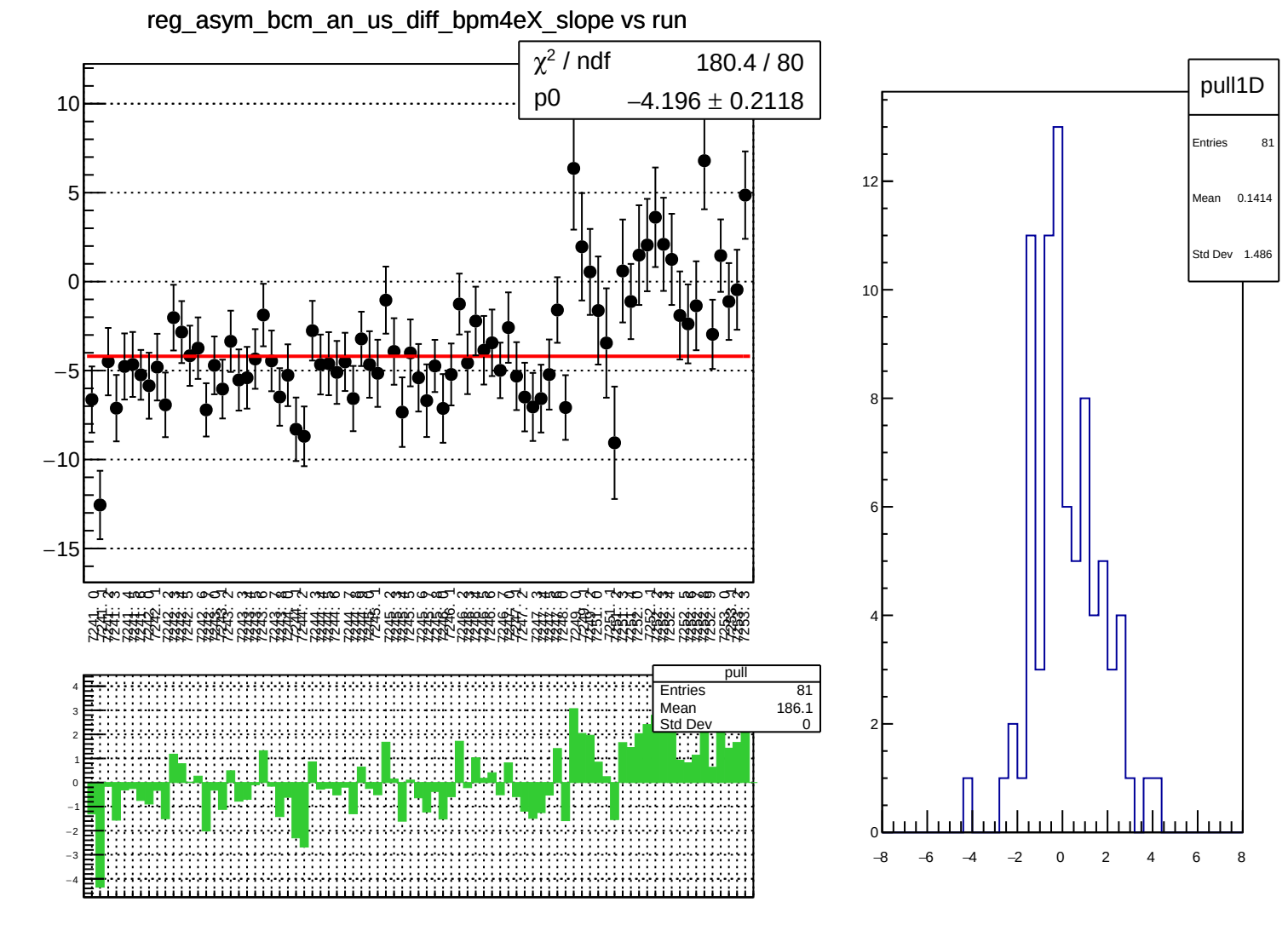

pull1D
Entries 81
Mean −0.04874
Std Dev 1.151

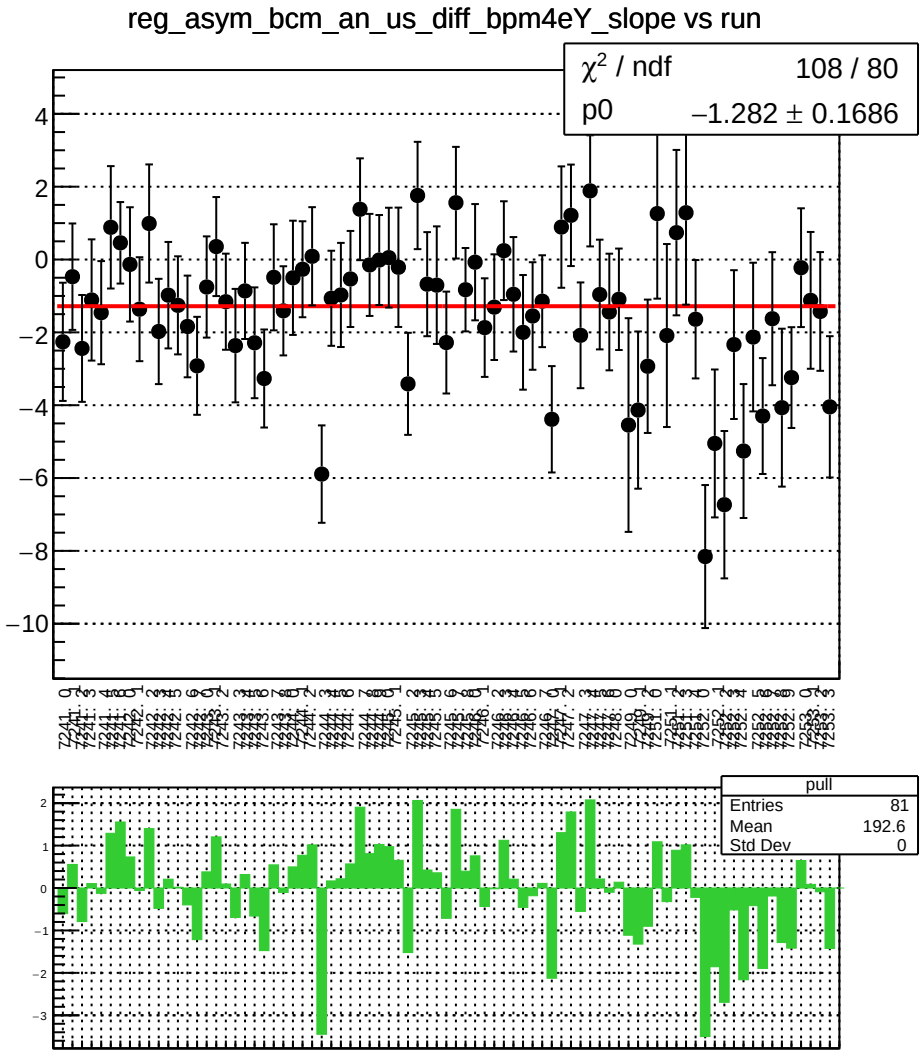

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 58.51 / 80
p0 −0.03313 ± 0.007518
pull
Entries 81
Mean 504.3
Std Dev 0
pull1D
Entries 81
Mean −0.005741
Std Dev 0.8499

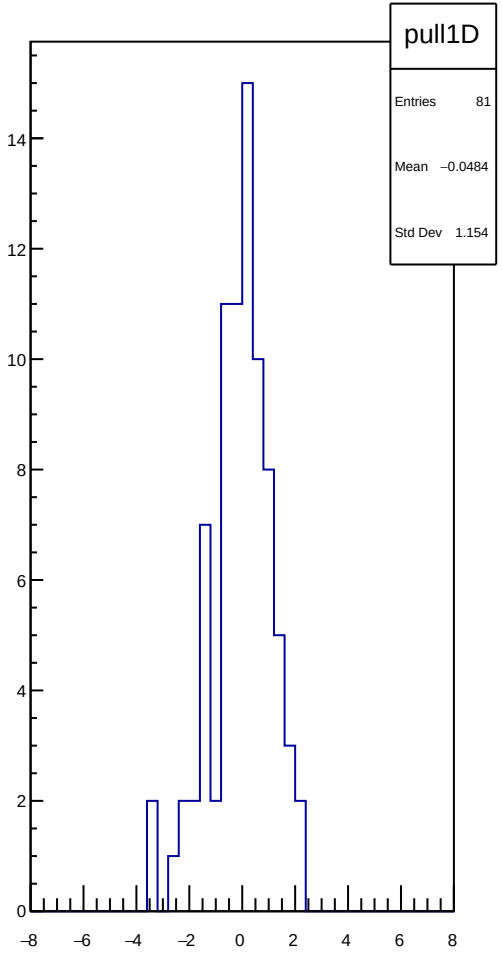

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 189.1 / 80
p0 3.91 ± 0.2037
pull
Entries 81
Mean 187.4
Std Dev 0

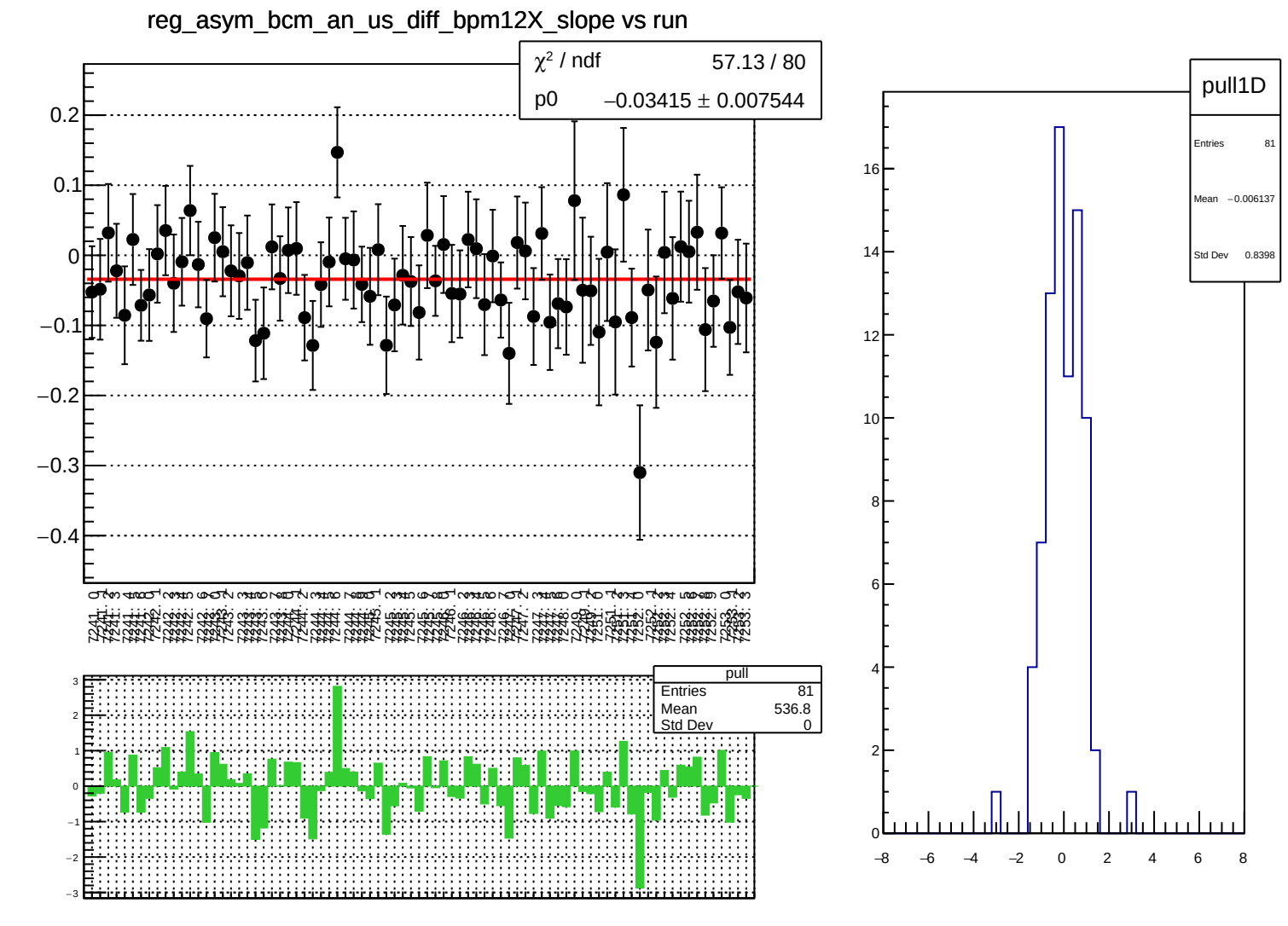

pull1D
Entries 81
Mean −0.1448
Std Dev 1.521

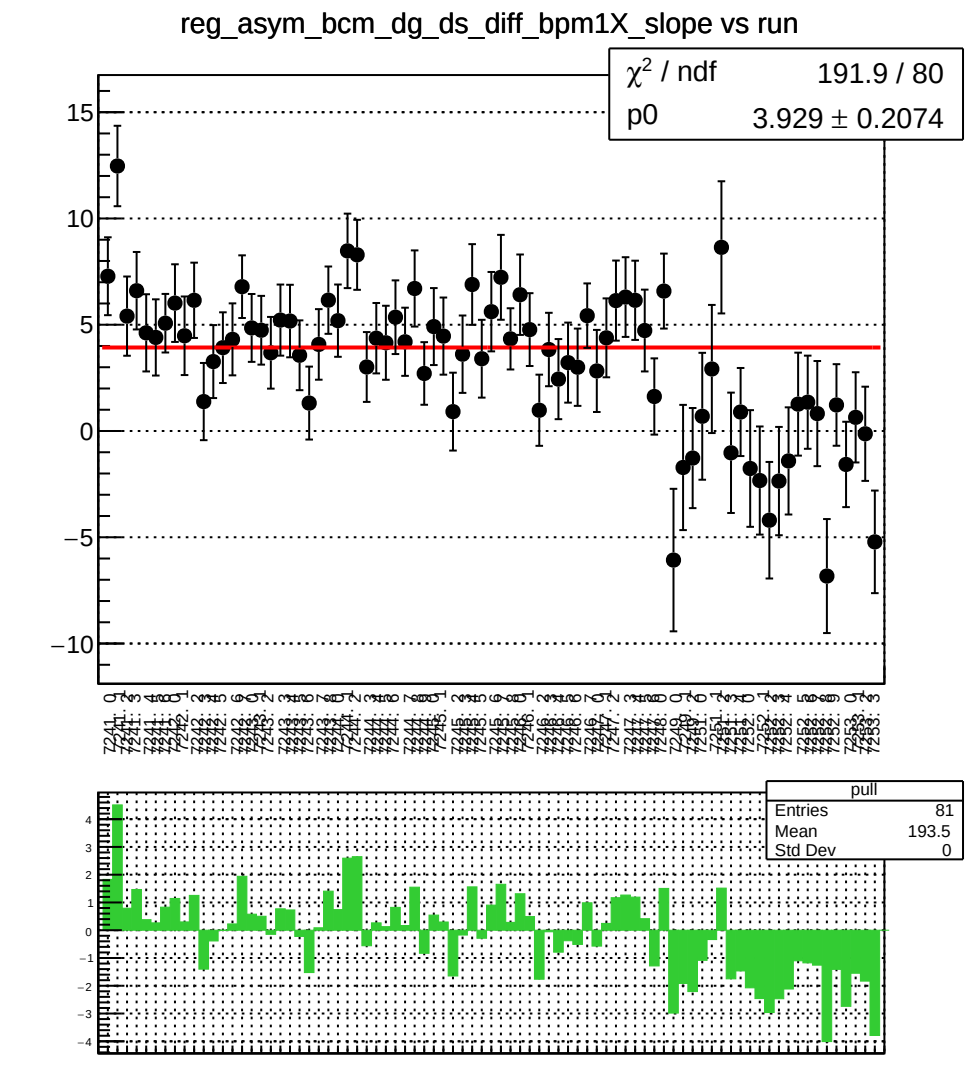

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 83.55 / 80
p0 0.6673 ± 0.1572
pull
Entries 81
Mean 209.8
Std Dev 0
pull1D
Entries 81
Mean 0.03083
Std Dev 1.015

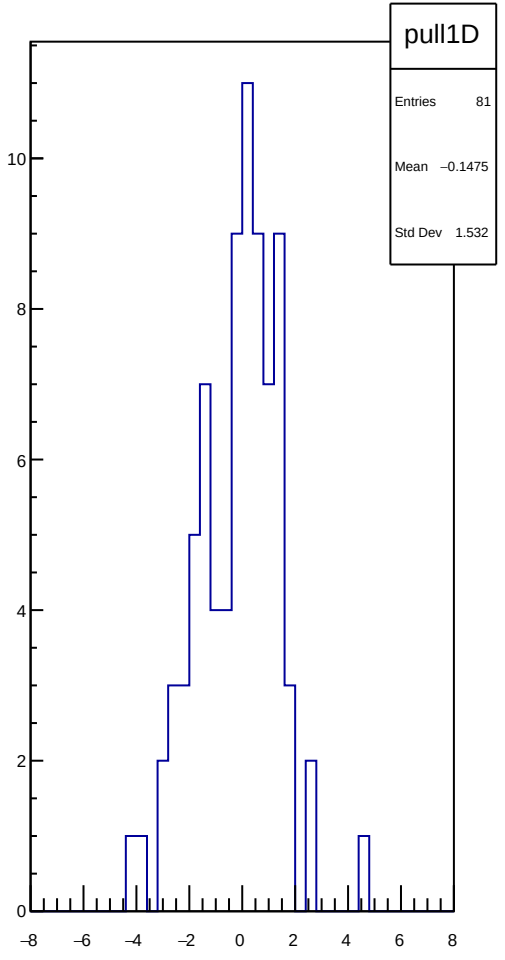

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 180.4 / 80
p0 −4.196 ± 0.2118
pull
Entries 81
Mean 186.1
Std Dev 0
pull1D
Entries 81
Mean 0.1414
Std Dev 1.486

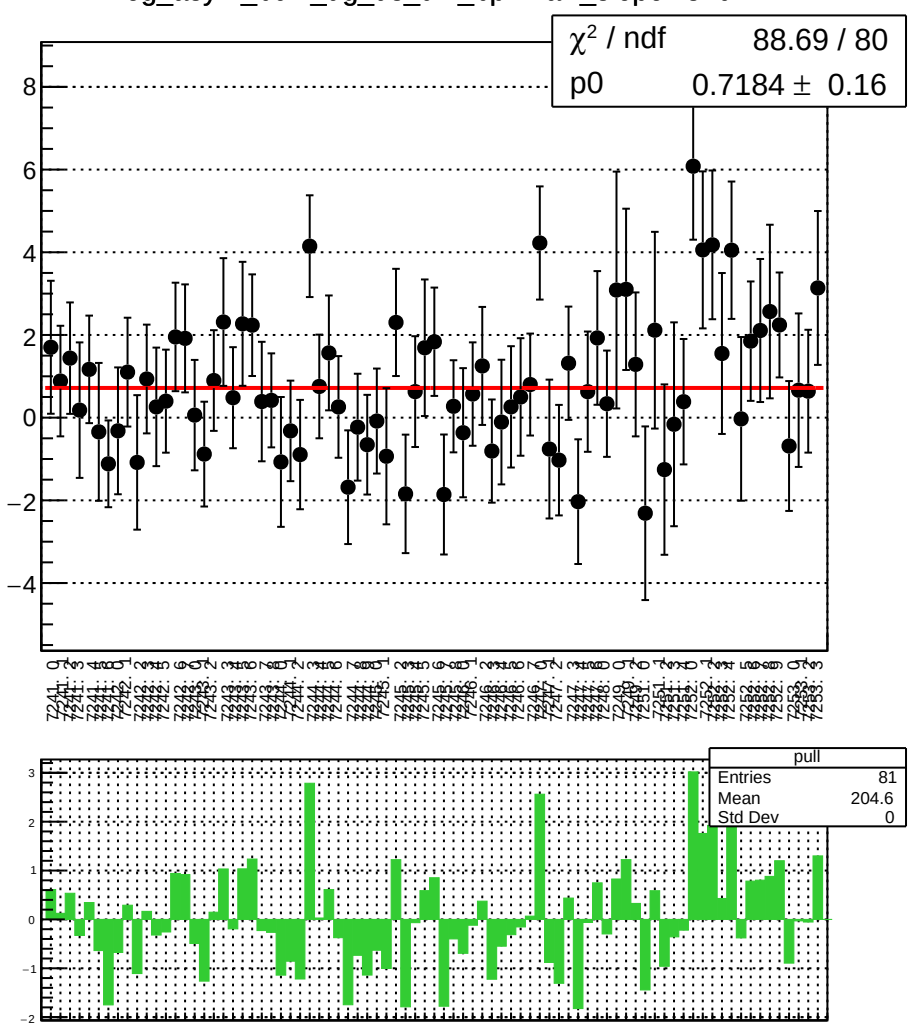

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 108 / 80
p0 −1.282 ± 0.1686
pull
Entries 81
Mean 192.6
Std Dev 0

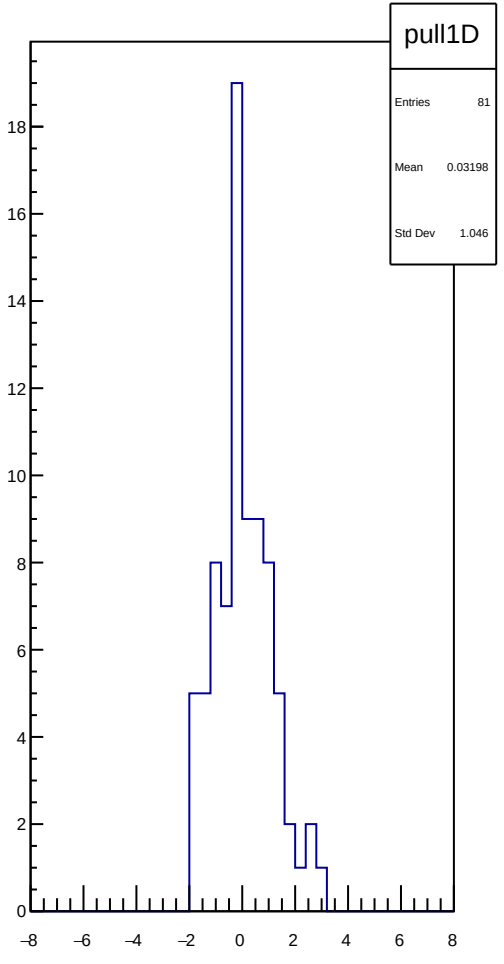

pull1D
Entries 81
Mean −0.0484
Std Dev 1.154

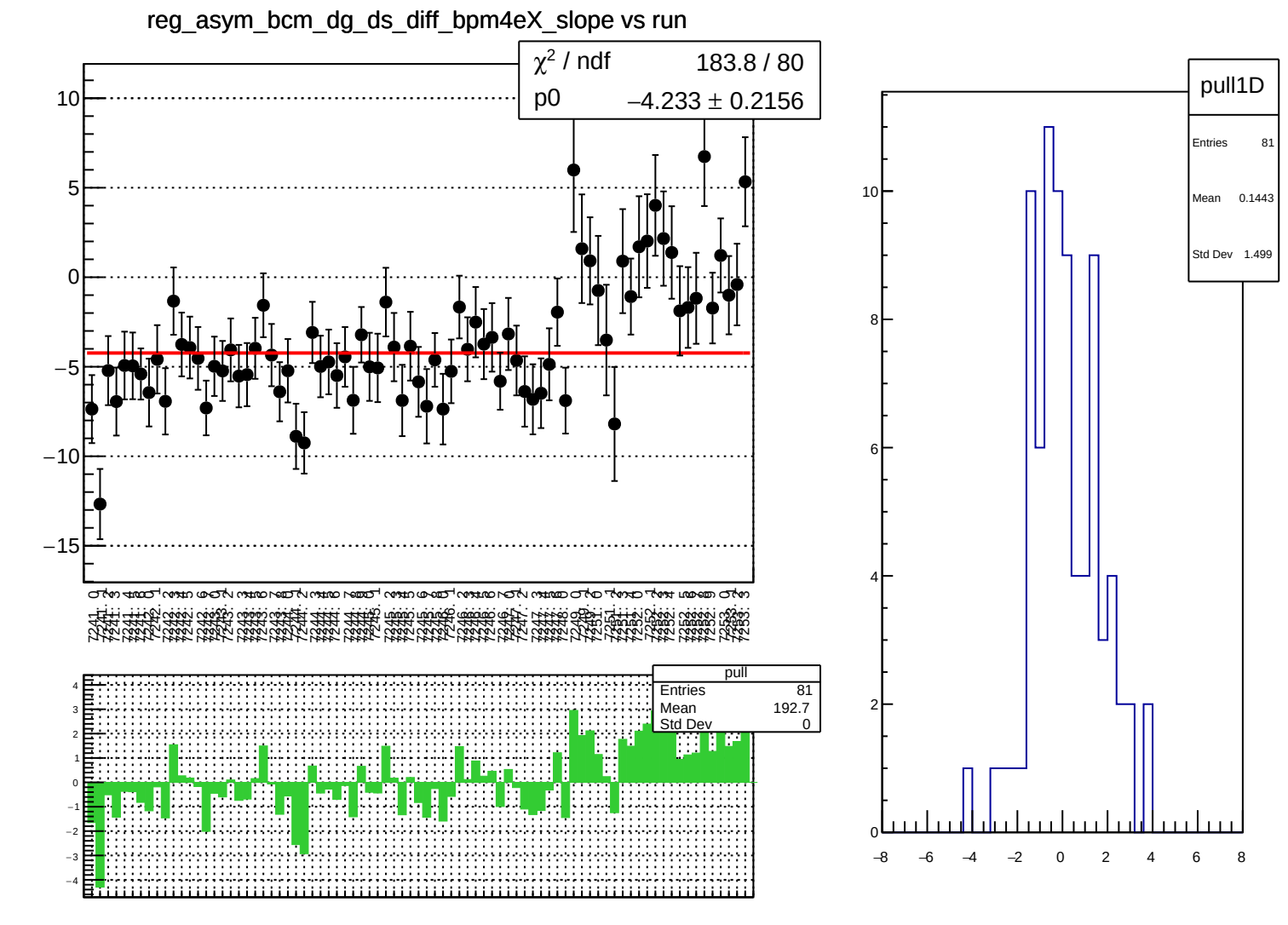

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 57.13 / 80
p0 −0.03415 ± 0.007544
pull
Entries 81
Mean 536.8
Std Dev 0
pull1D
Entries 81
Mean −0.006137
Std Dev 0.8398

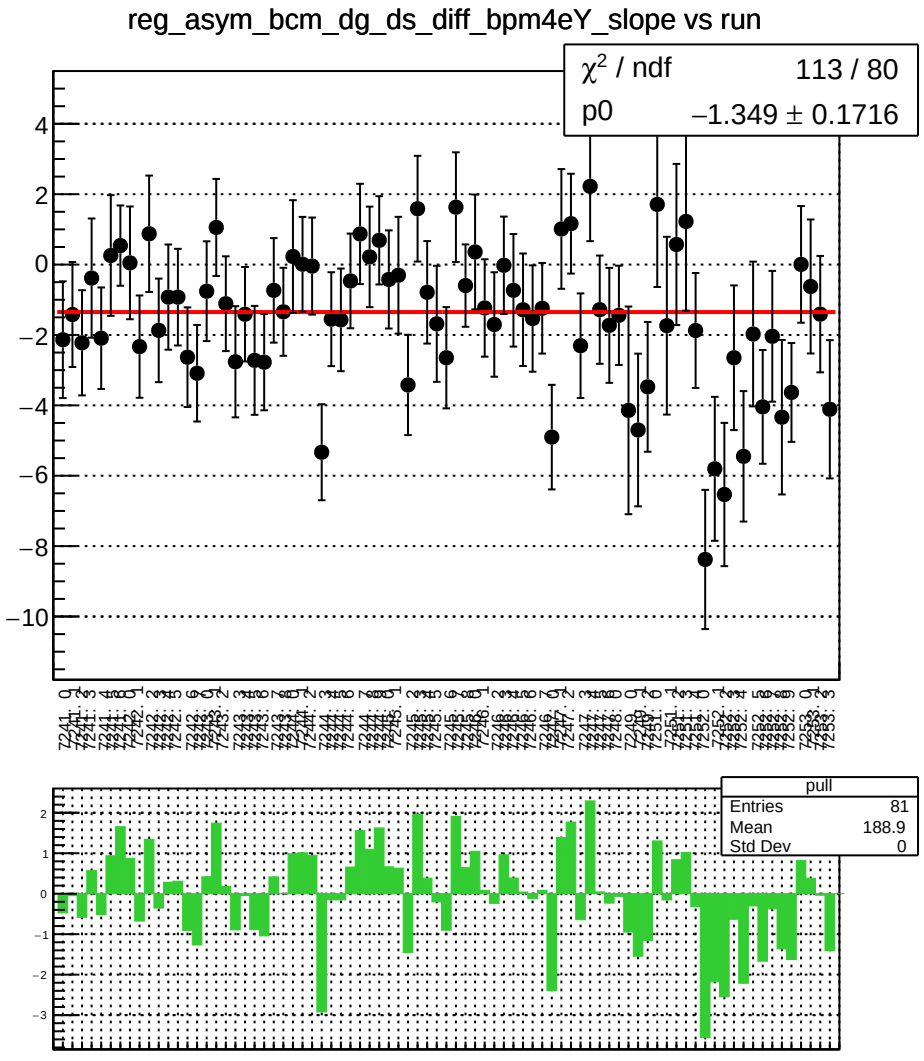

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 191.9 / 80
p0 3.929 ± 0.2074
pull
Entries 81
Mean 193.5
Std Dev 0

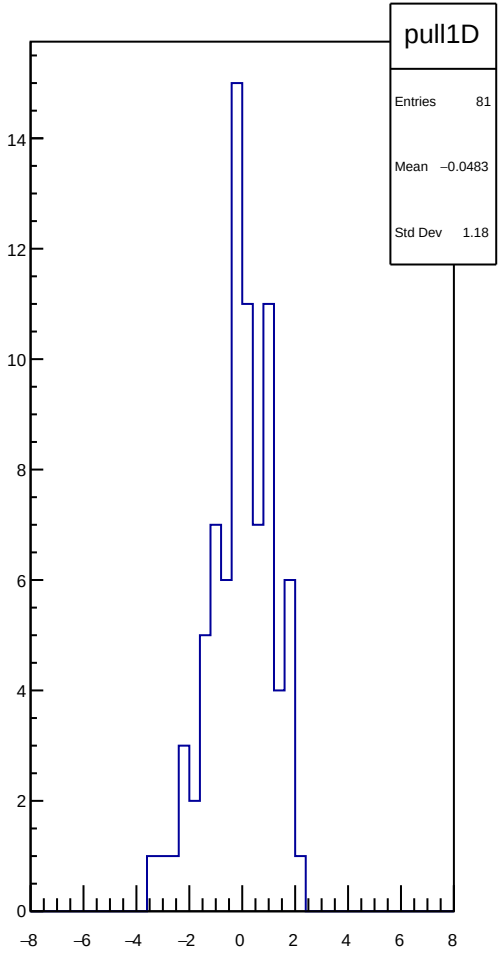

pull1D
Entries 81
Mean −0.1475
Std Dev 1.532

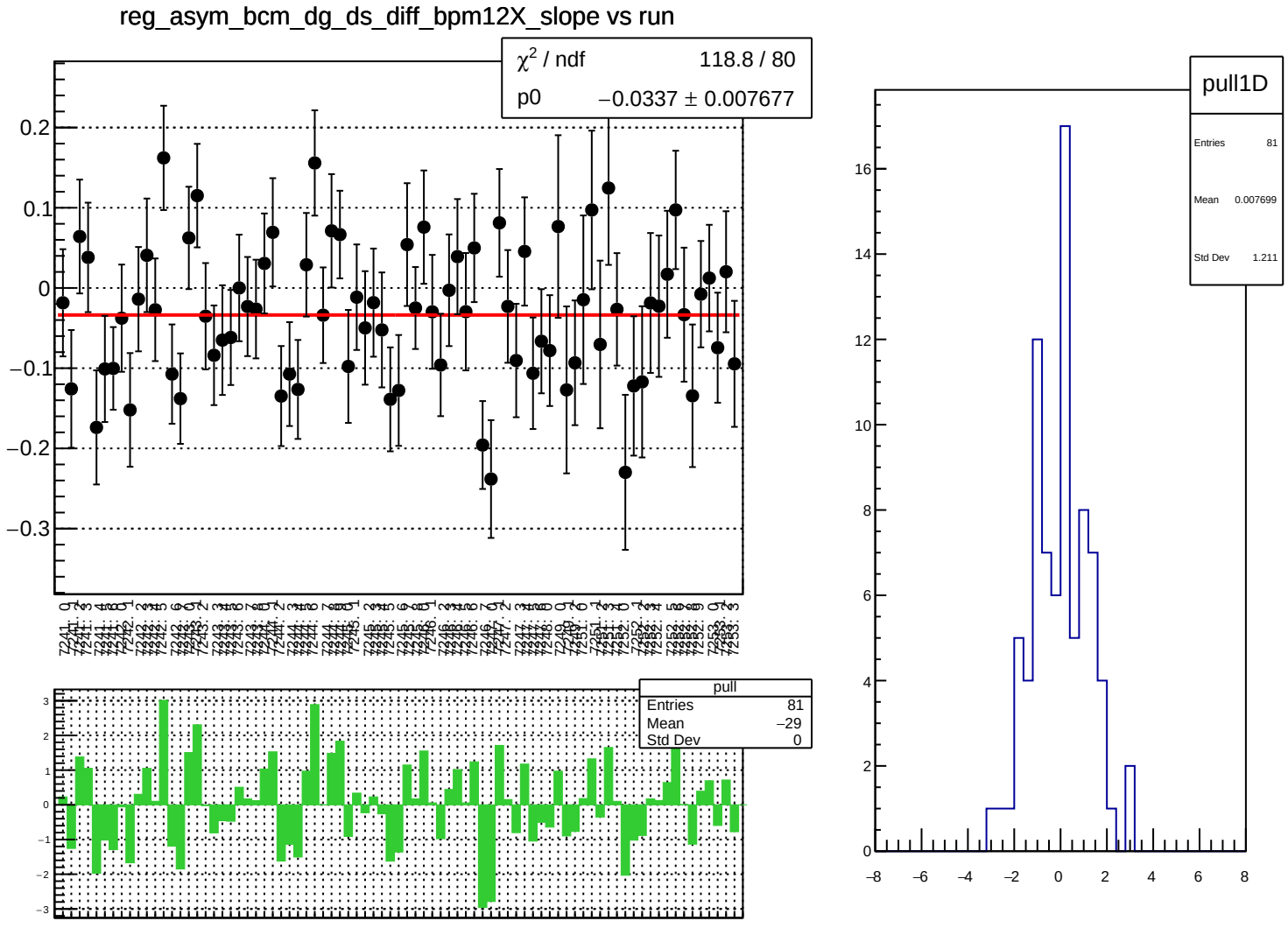

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 88.69 / 80
p0 0.7184 ± 0.16
pull
Entries 81
Mean 204.6
Std Dev 0

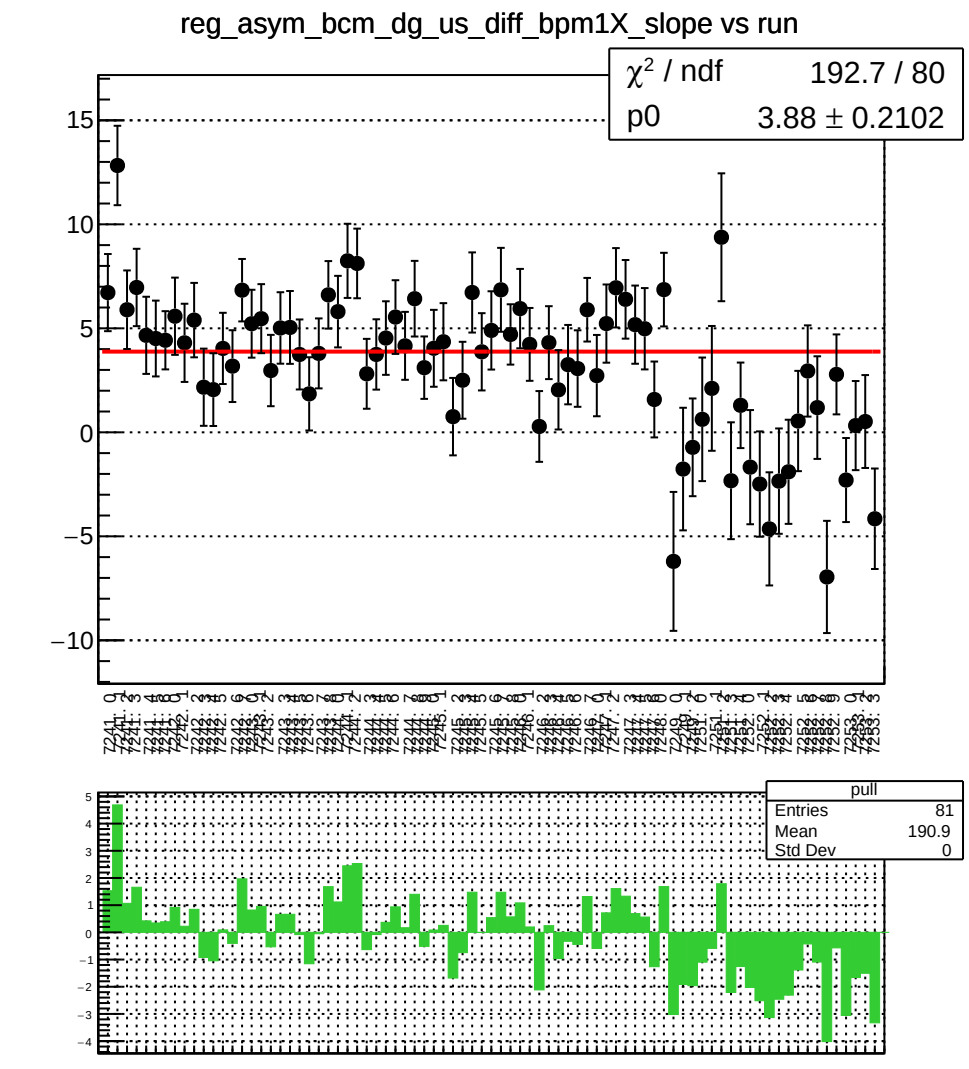

pull1D
Entries 81
Mean 0.03198
Std Dev 1.046

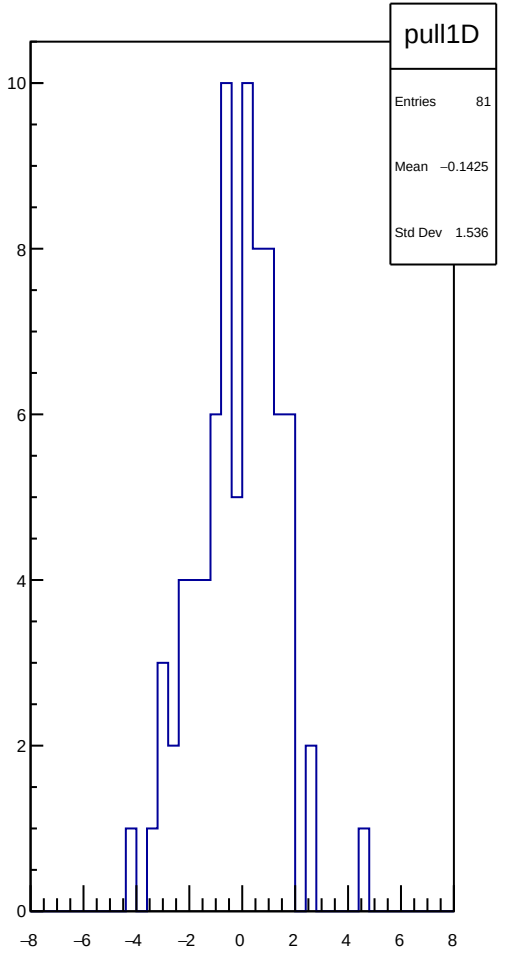

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 183.8 / 80
p0 −4.233 ± 0.2156
pull
Entries 81
Mean 192.7
Std Dev 0
pull1D
Entries 81
Mean 0.1443
Std Dev 1.499

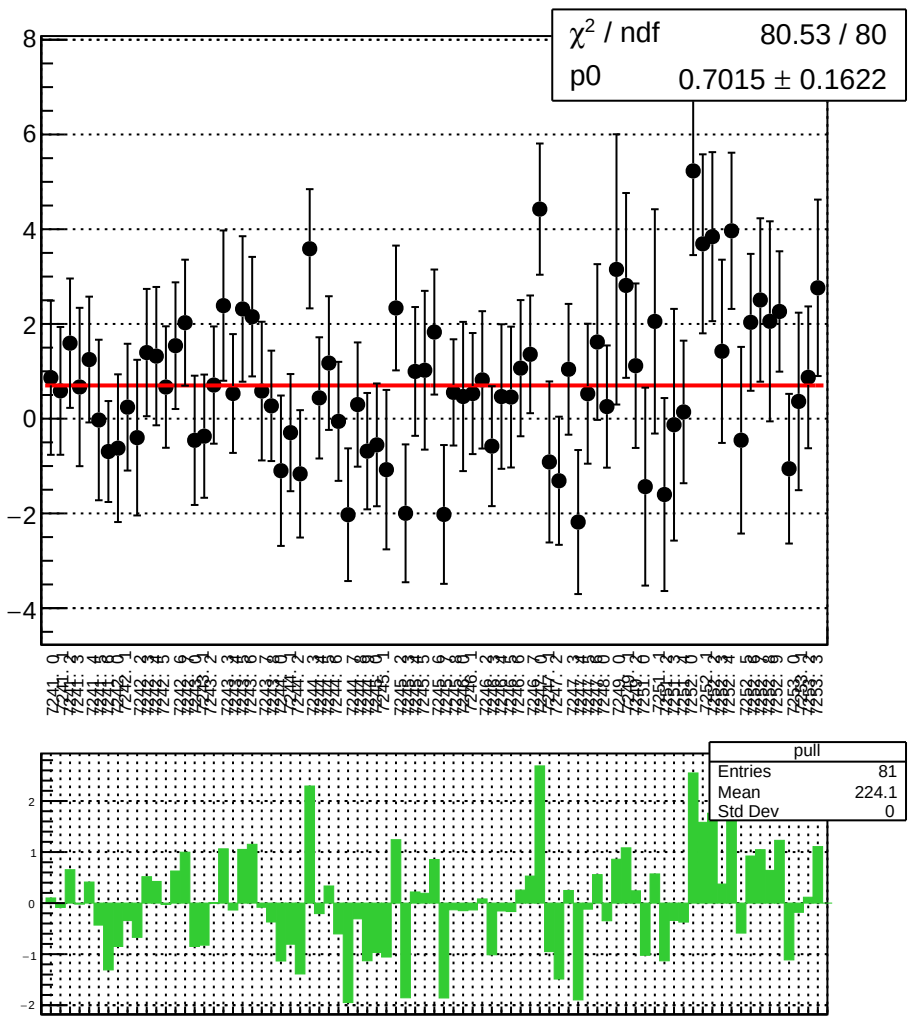

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 113 / 80
p0 −1.349 ± 0.1716
pull
Entries 81
Mean 188.9
Std Dev 0

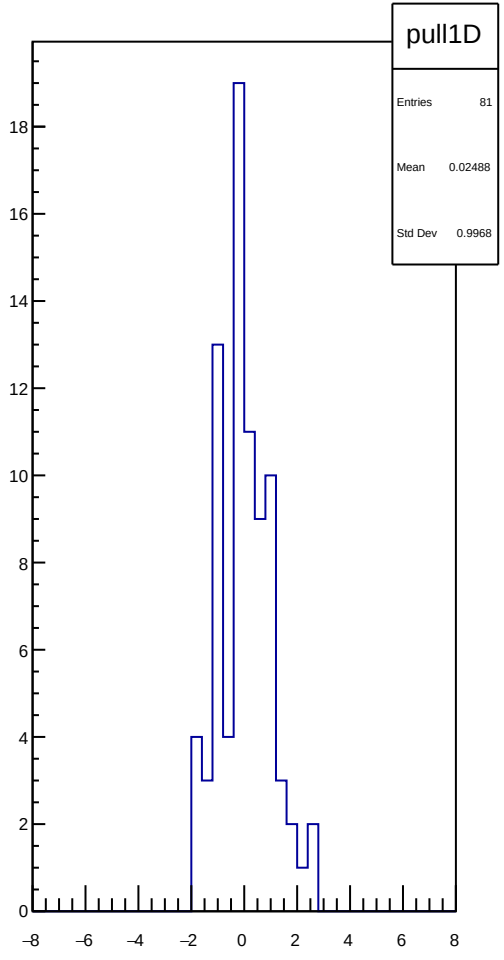

pull1D
Entries 81
Mean −0.0483
Std Dev 1.18

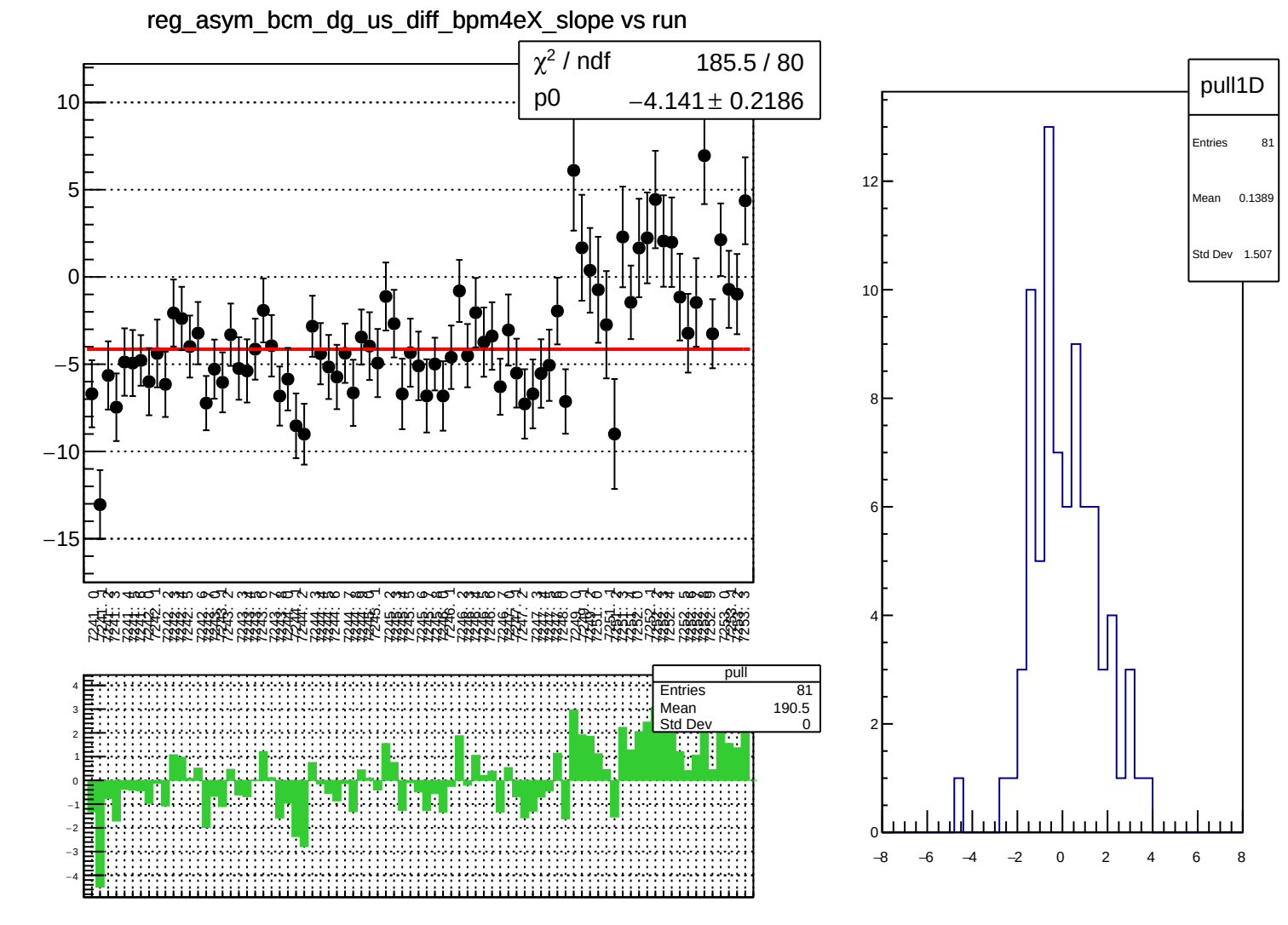

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 118.8 / 80
p0 −0.0337 ± 0.007677
pull
Entries 81
Mean −29
Std Dev 0
pull1D
Entries 81
Mean 0.007699
Std Dev 1.211

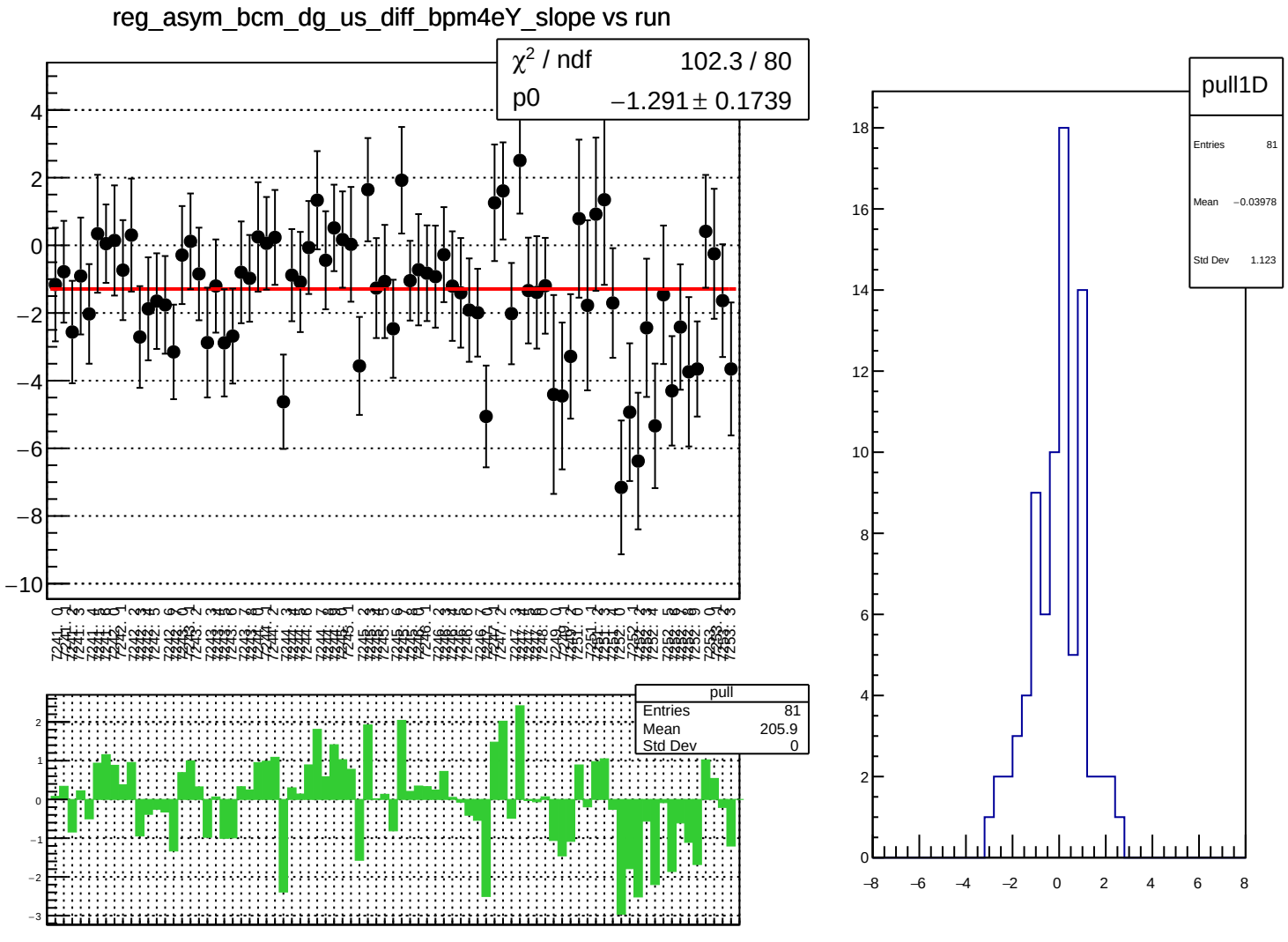

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 192.7 / 80
p0 3.88 ± 0.2102
pull
Entries 81
Mean 190.9
Std Dev 0

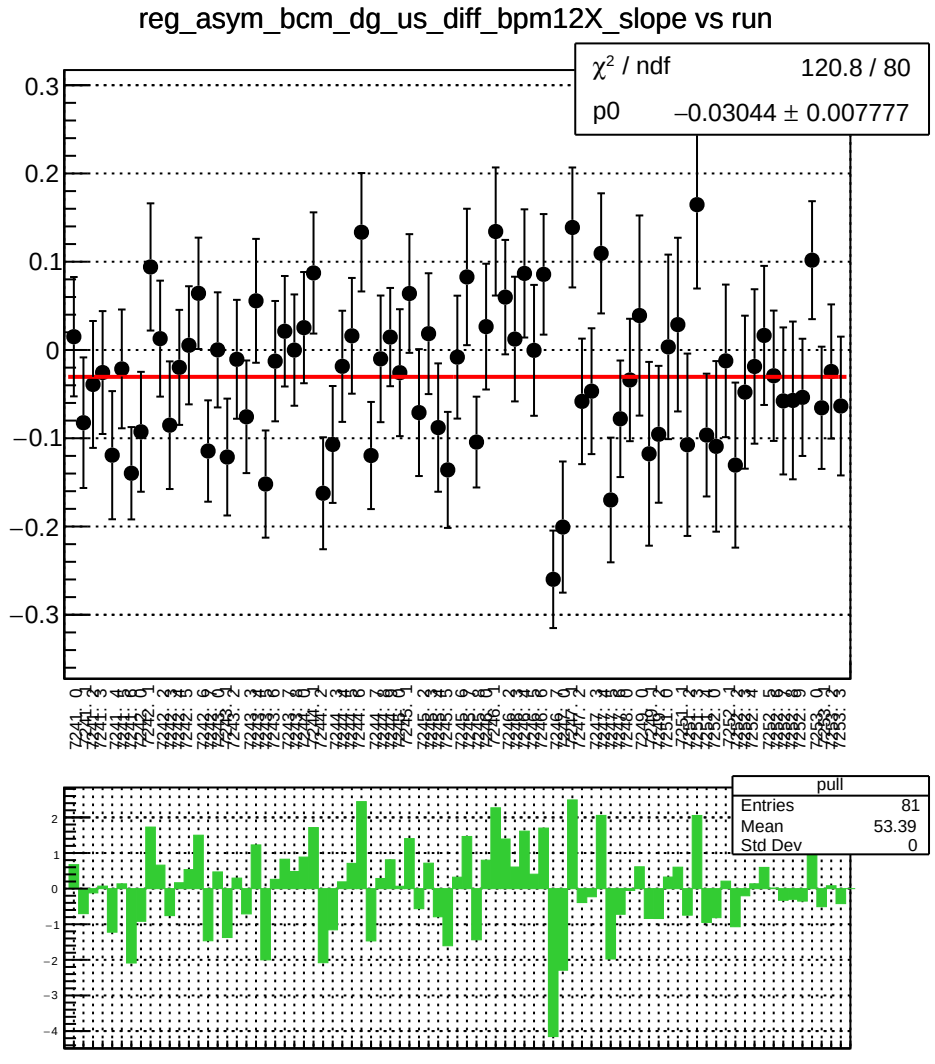

pull1D
Entries 81
Mean −0.1425
Std Dev 1.536

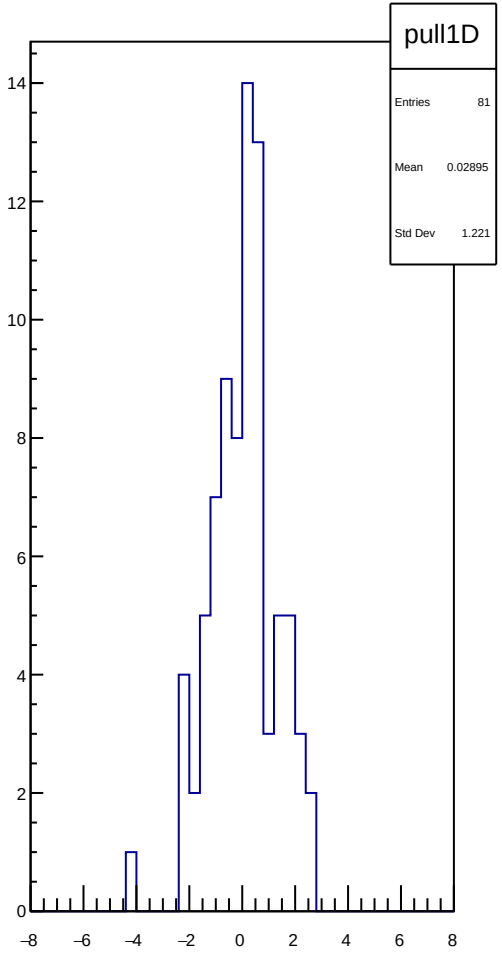

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 80.53 / 80
p0 0.7015 ± 0.1622
pull
Entries 81
Mean 224.1
Std Dev 0

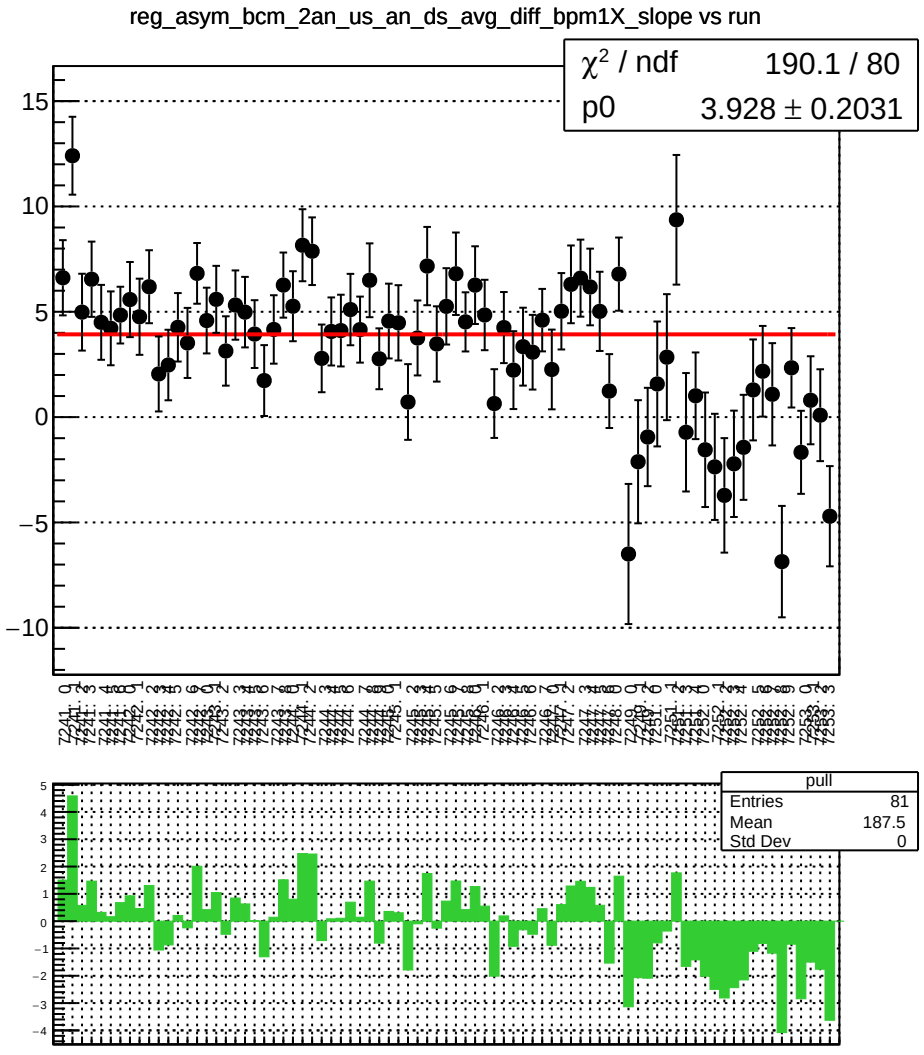

pull1D
Entries 81
Mean 0.02488
Std Dev 0.9968

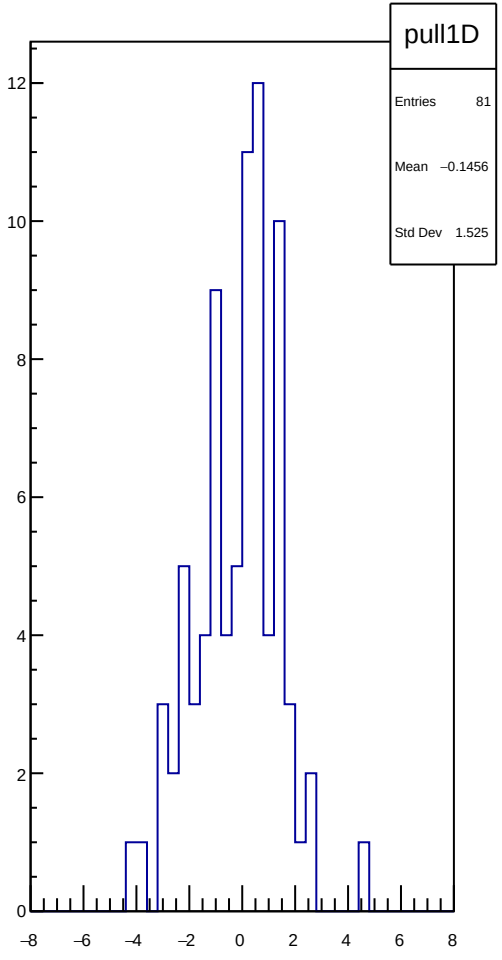

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 185.5 / 80
p0 −4.141 ± 0.2186
pull
Entries 81
Mean 190.5
Std Dev 0
pull1D
Entries 81
Mean 0.1389
Std Dev 1.507

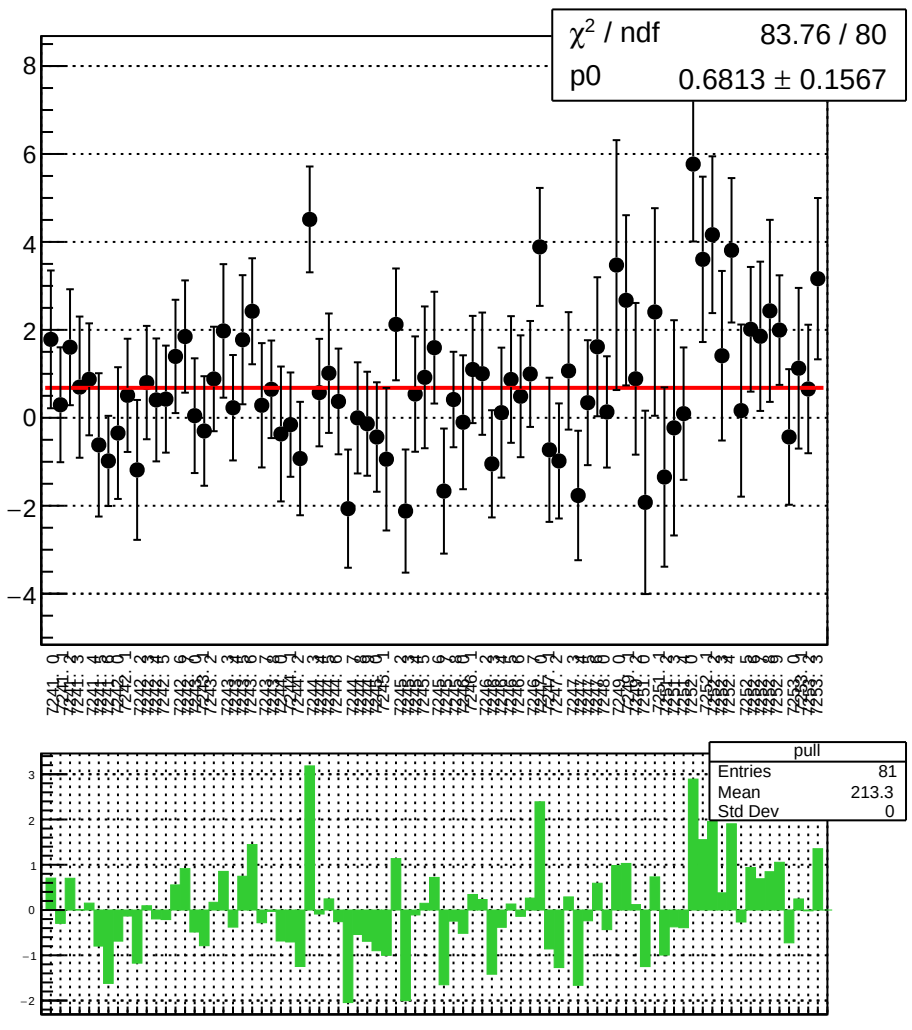

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 102.3 / 80
p0 −1.291 ± 0.1739
pull
Entries 81
Mean 205.9
Std Dev 0
pull1D
Entries 81
Mean −0.03978
Std Dev 1.123

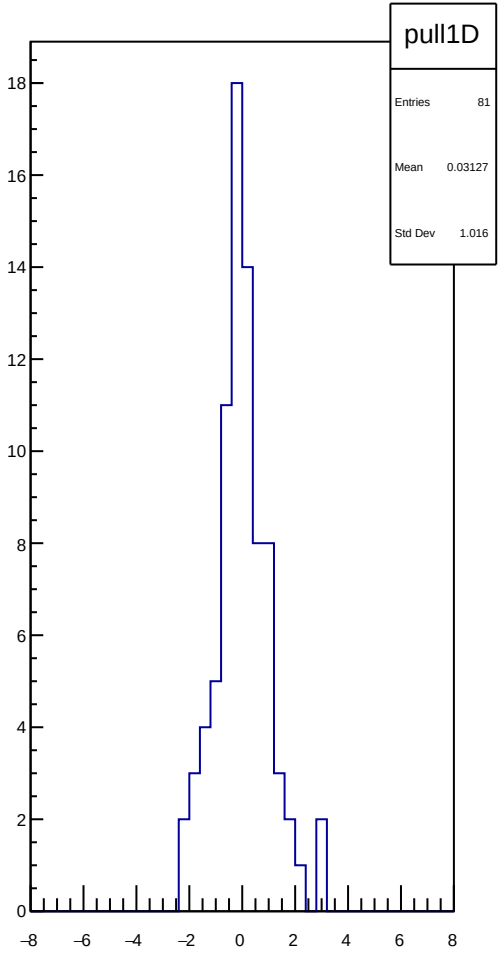

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 120.8 / 80
p0 −0.03044 ± 0.007777
pull
Entries 81
Mean 53.39
Std Dev 0

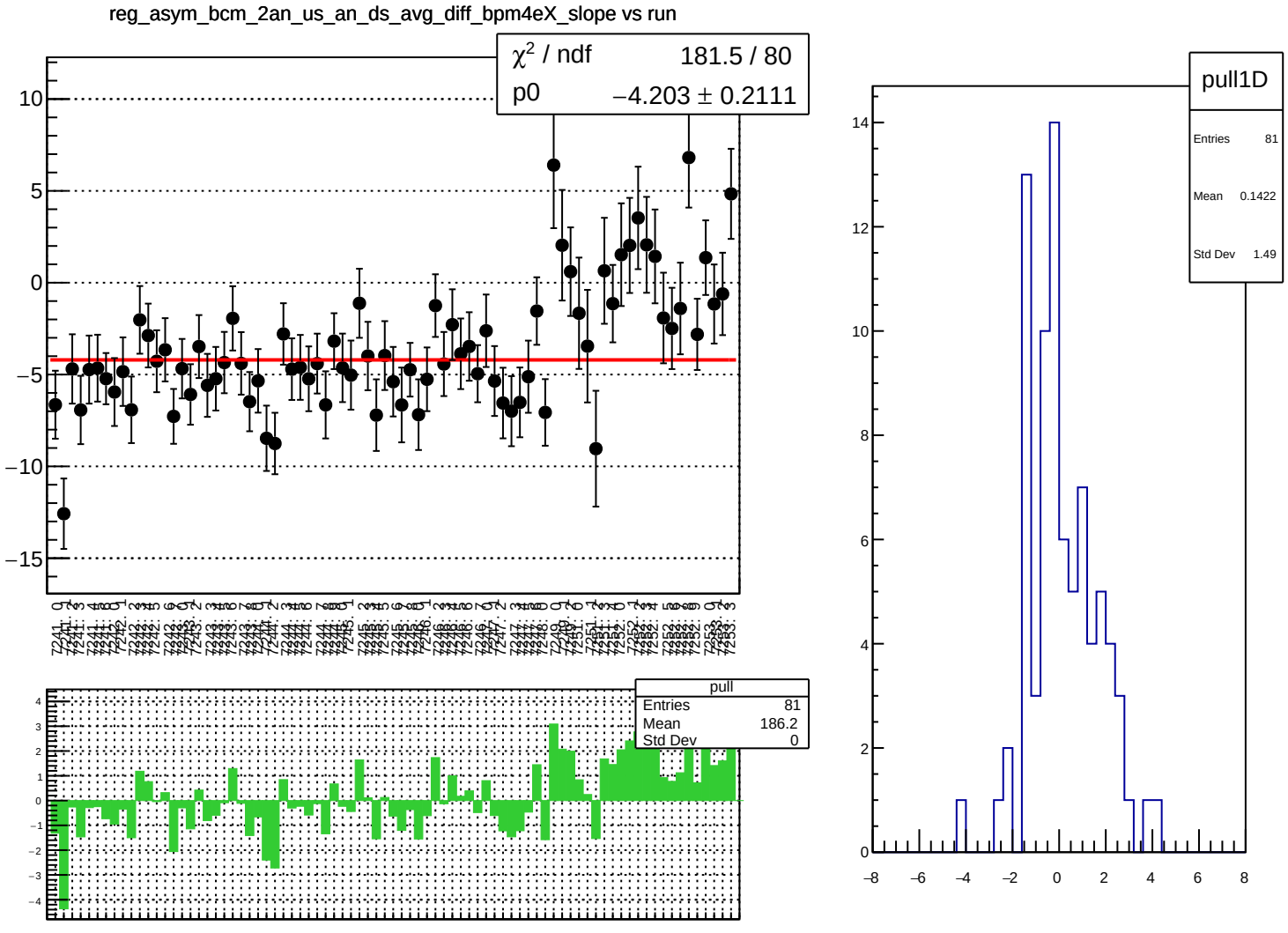

pull1D
Entries 81
Mean 0.02895
Std Dev 1.221

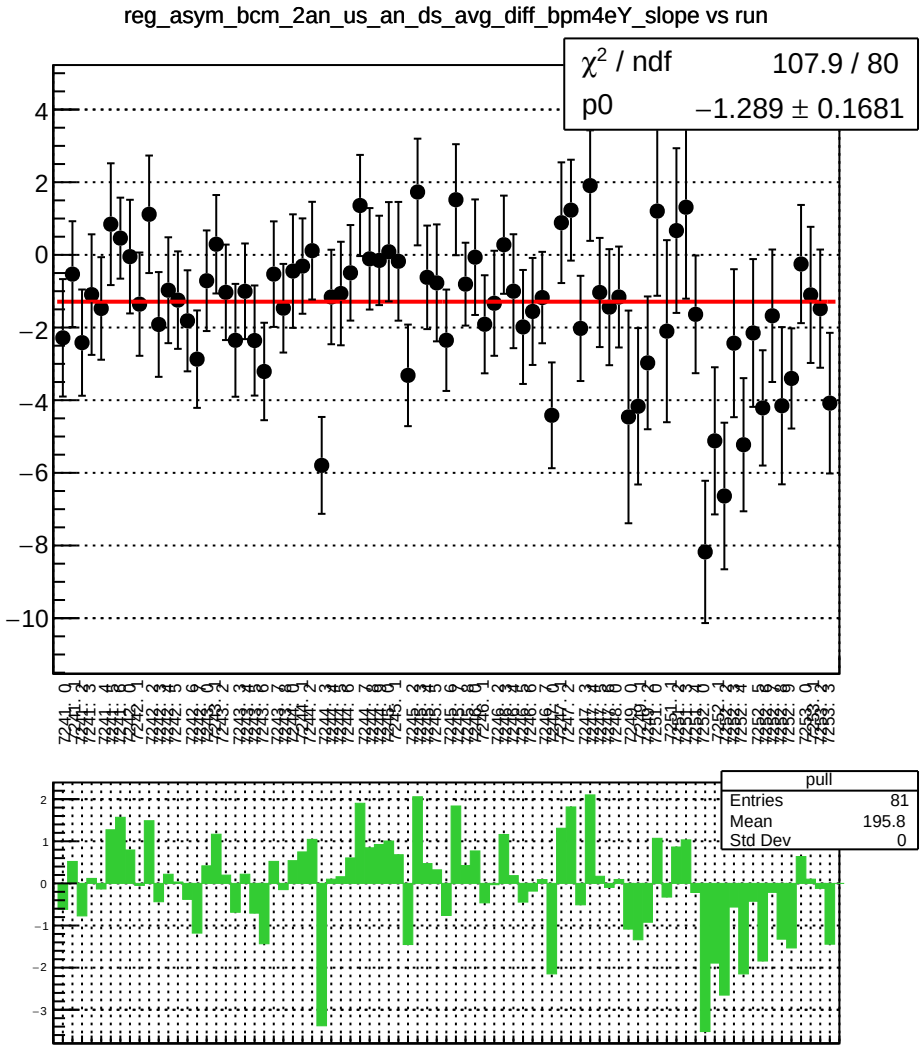

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 190.1 / 80
p0 3.928 ± 0.2031
pull
Entries 81
Mean 187.5
Std Dev 0

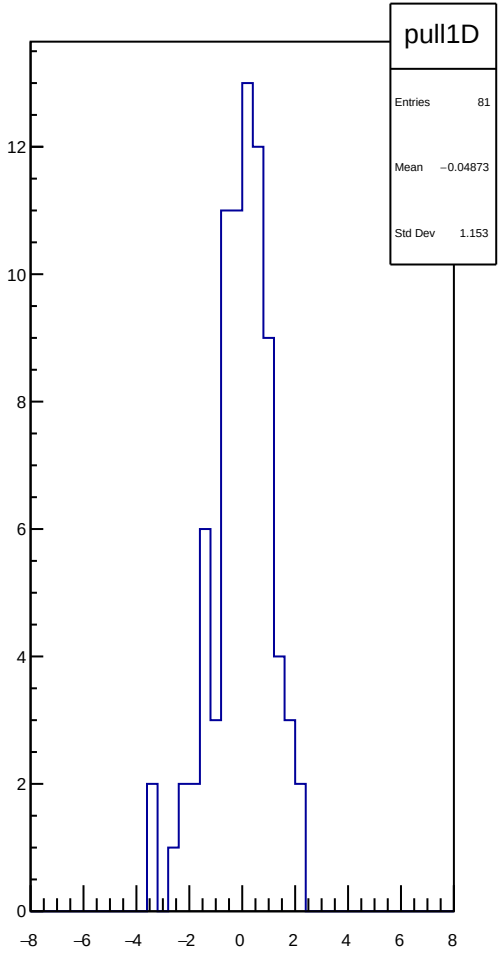

pull1D
Entries 81
Mean −0.1456
Std Dev 1.525

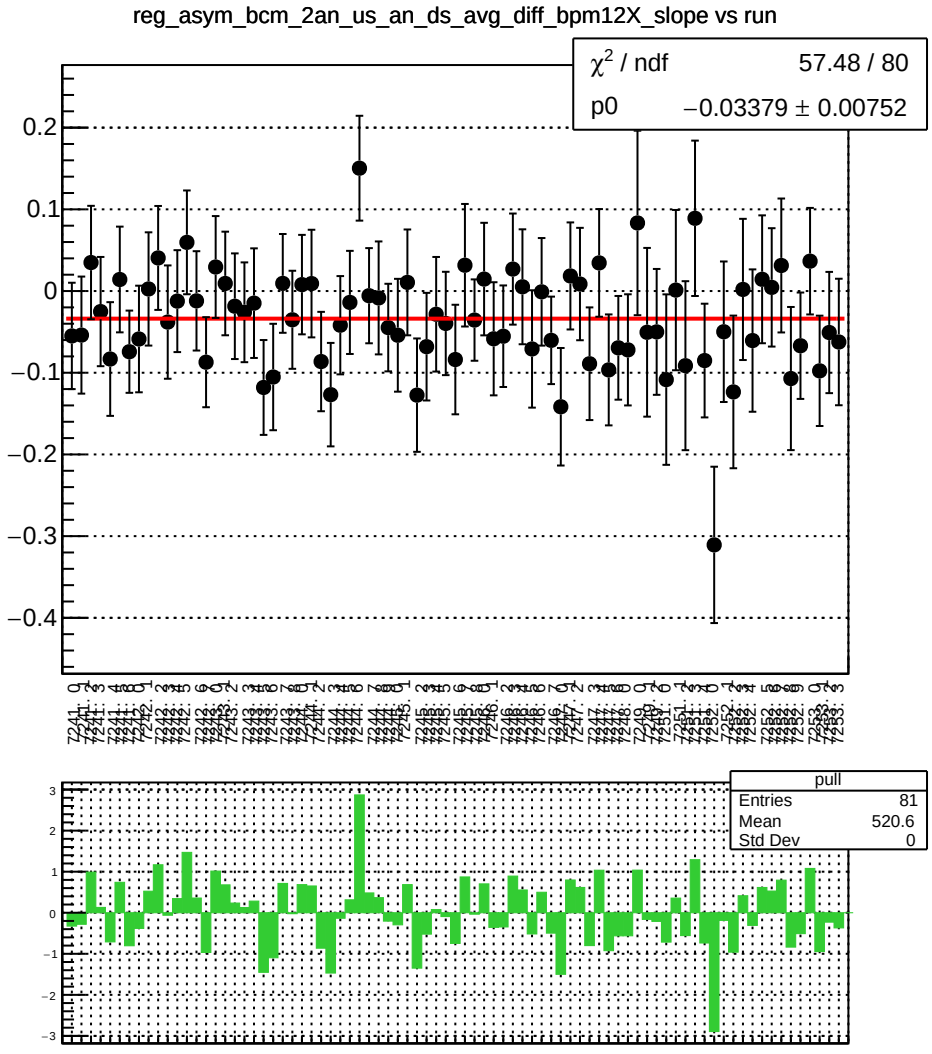

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 83.76 / 80
p0 0.6813 ± 0.1567
pull
Entries 81
Mean 213.3
Std Dev 0

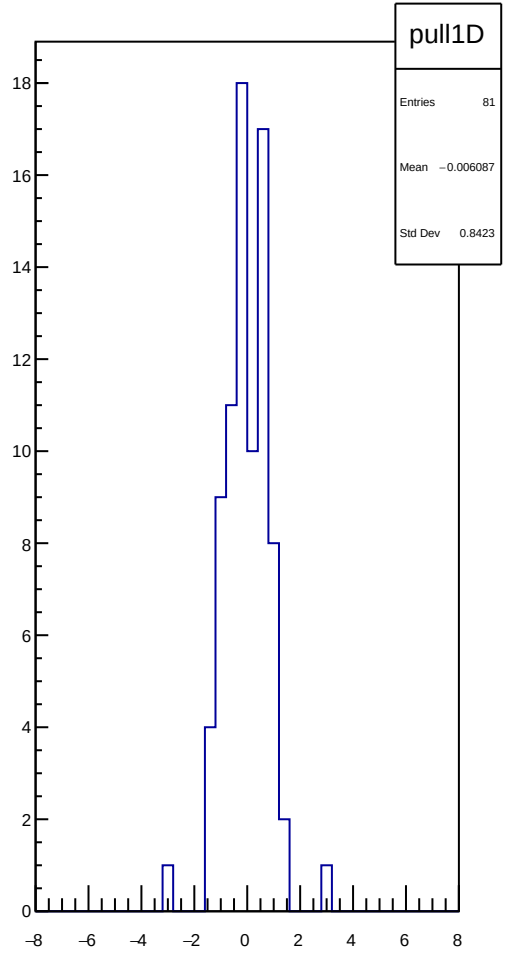

pull1D
Entries 81
Mean 0.03127
Std Dev 1.016

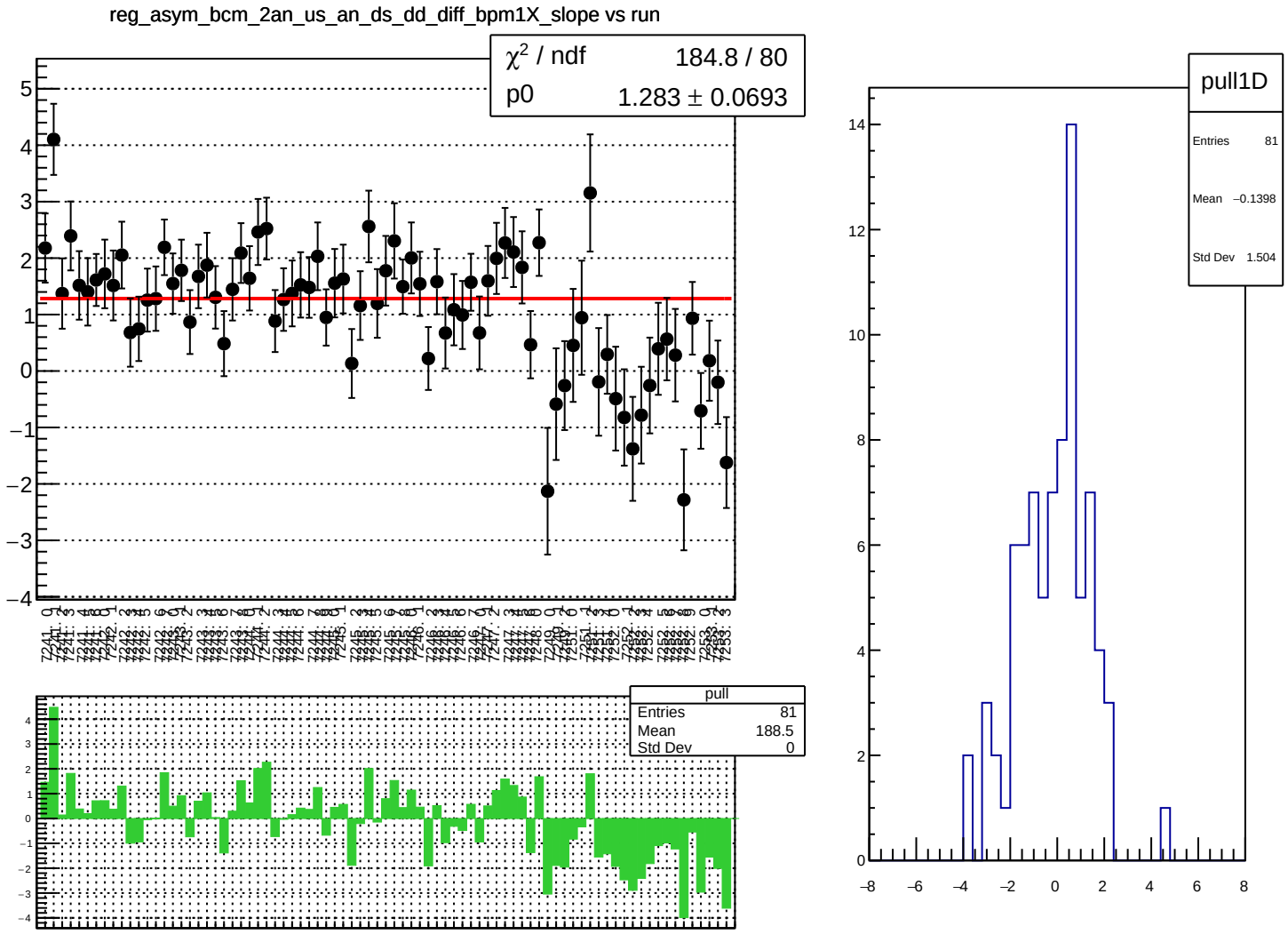

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 181.5 / 80
p0 −4.203 ± 0.2111
pull
Entries 81
Mean 186.2
Std Dev 0
pull1D
Entries 81
Mean 0.1422
Std Dev 1.49

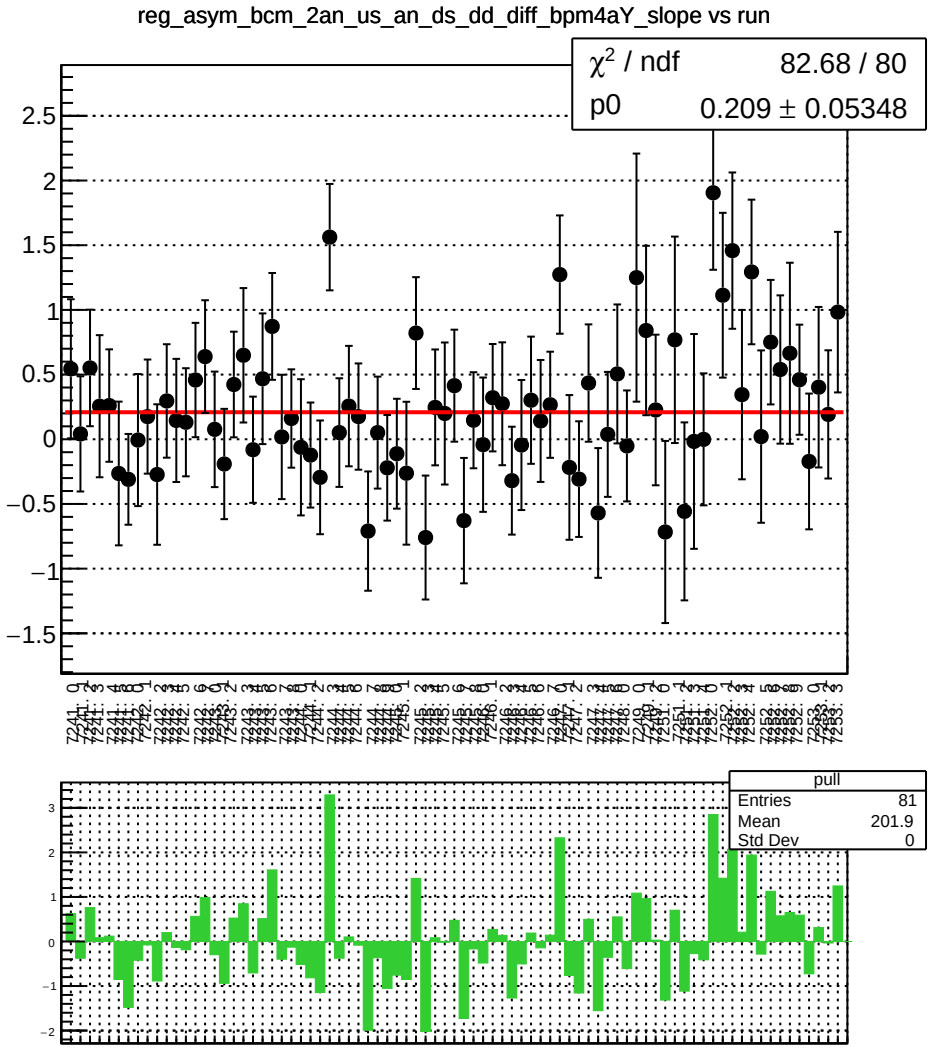

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 107.9 / 80
p0 −1.289 ± 0.1681
pull
Entries 81
Mean 195.8
Std Dev 0

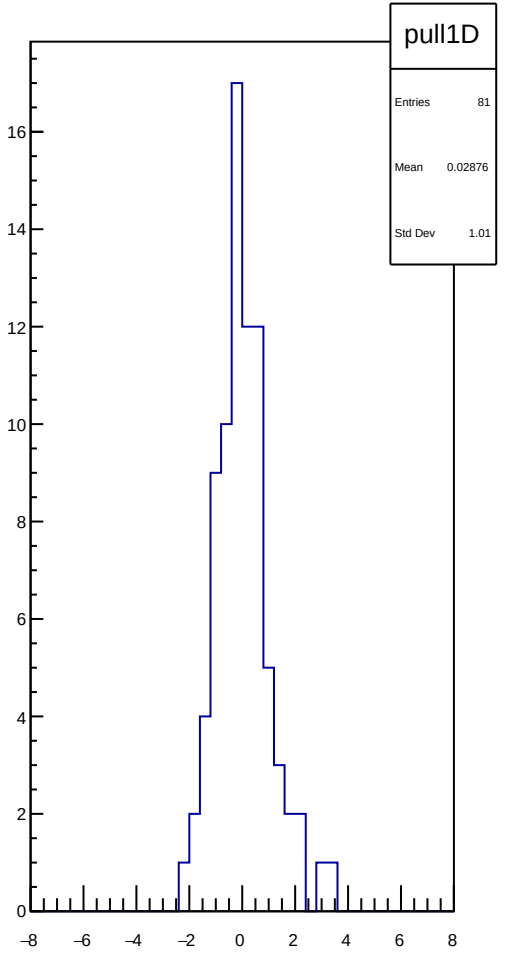

pull1D
Entries 81
Mean −0.04873
Std Dev 1.153

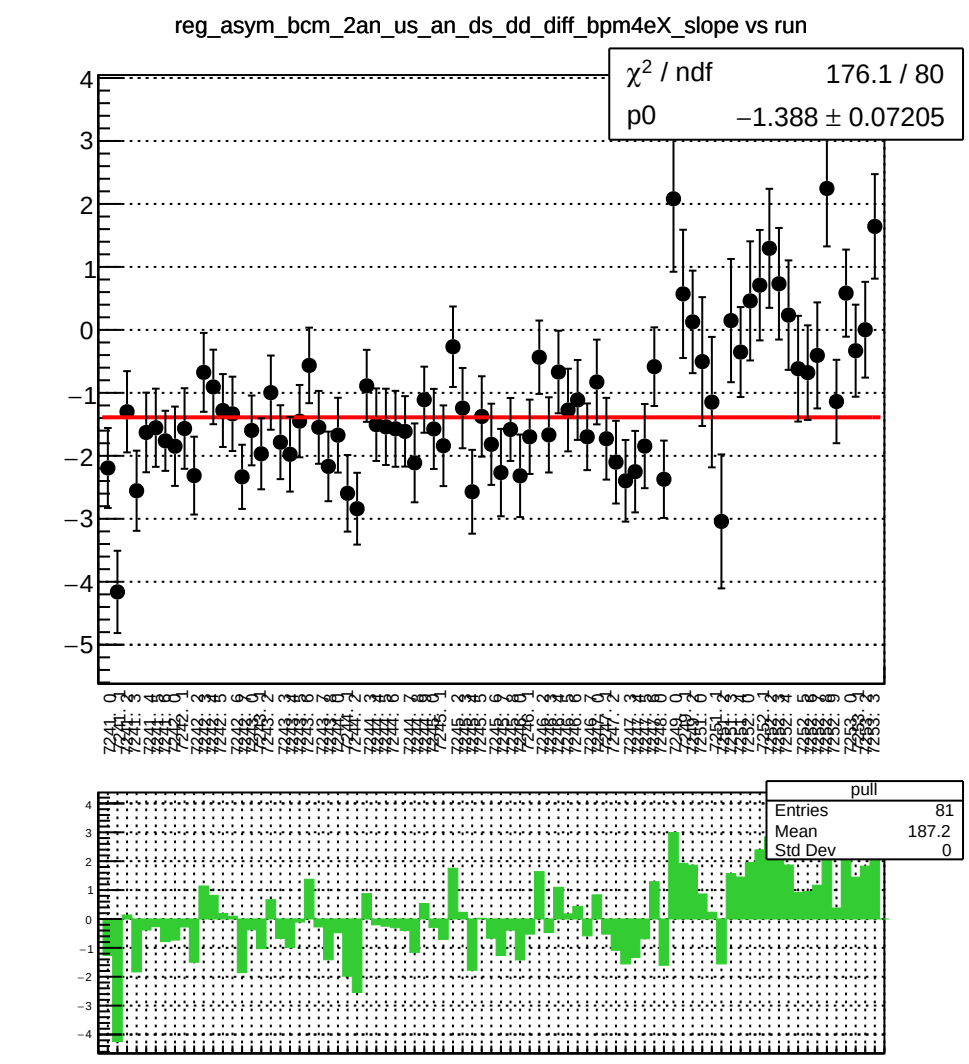

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 57.48 / 80
p0 −0.03379 ± 0.00752
pull
Entries 81
Mean 520.6
Std Dev 0

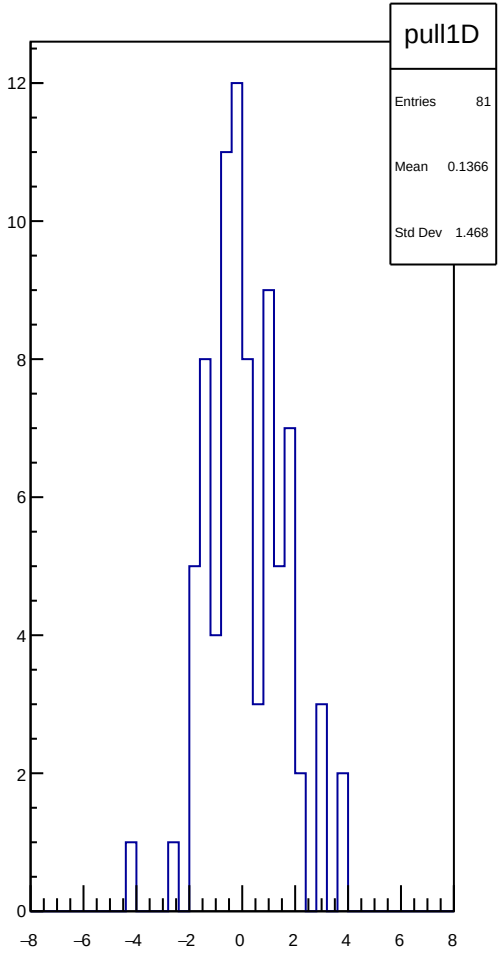

pull1D
Entries 81
Mean −0.006087
Std Dev 0.8423

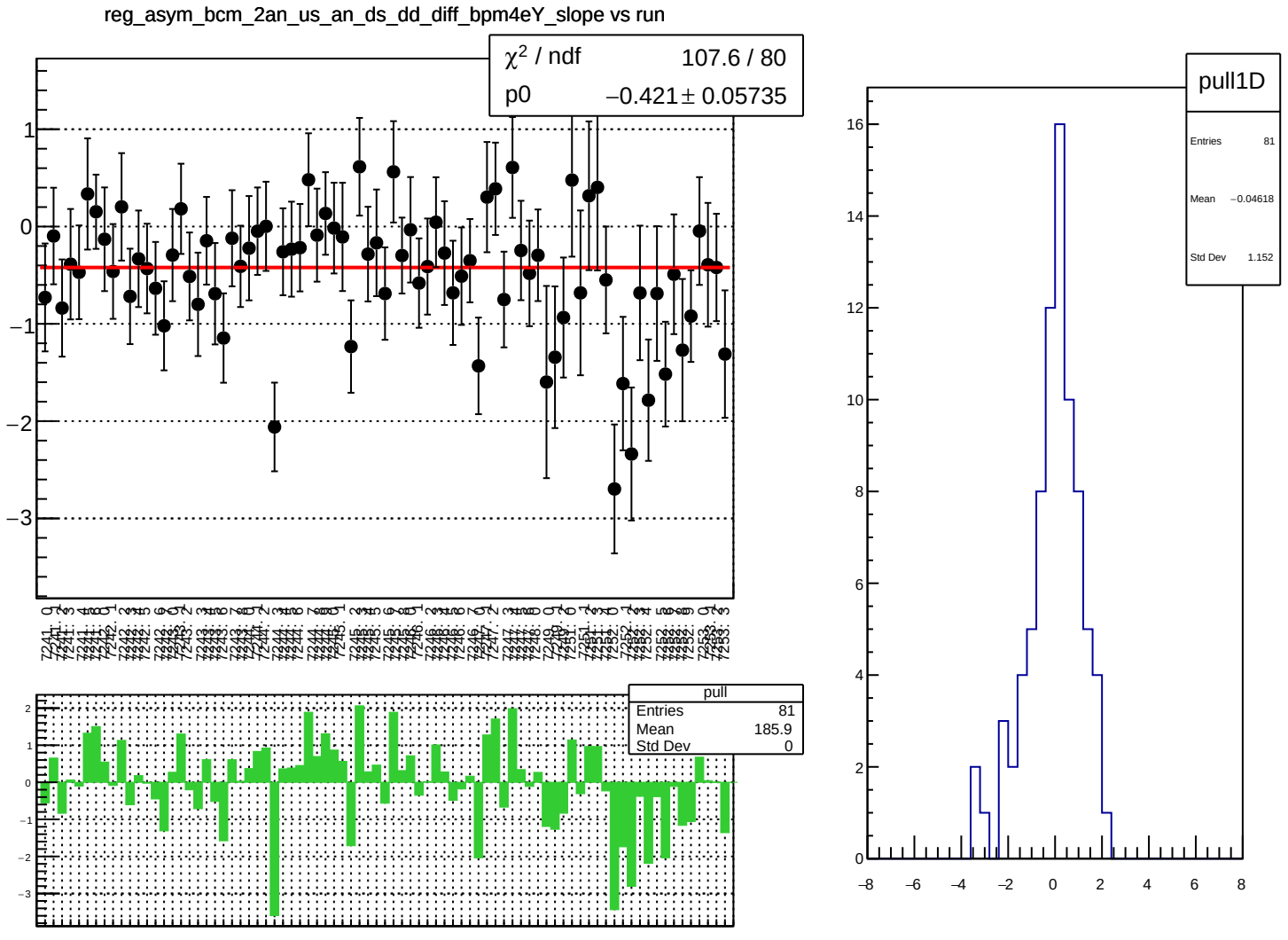

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 184.8 / 80
p0 1.283 ± 0.0693
pull
Entries 81
Mean 188.5
Std Dev 0
pull1D
Entries 81
Mean −0.1398
Std Dev 1.504

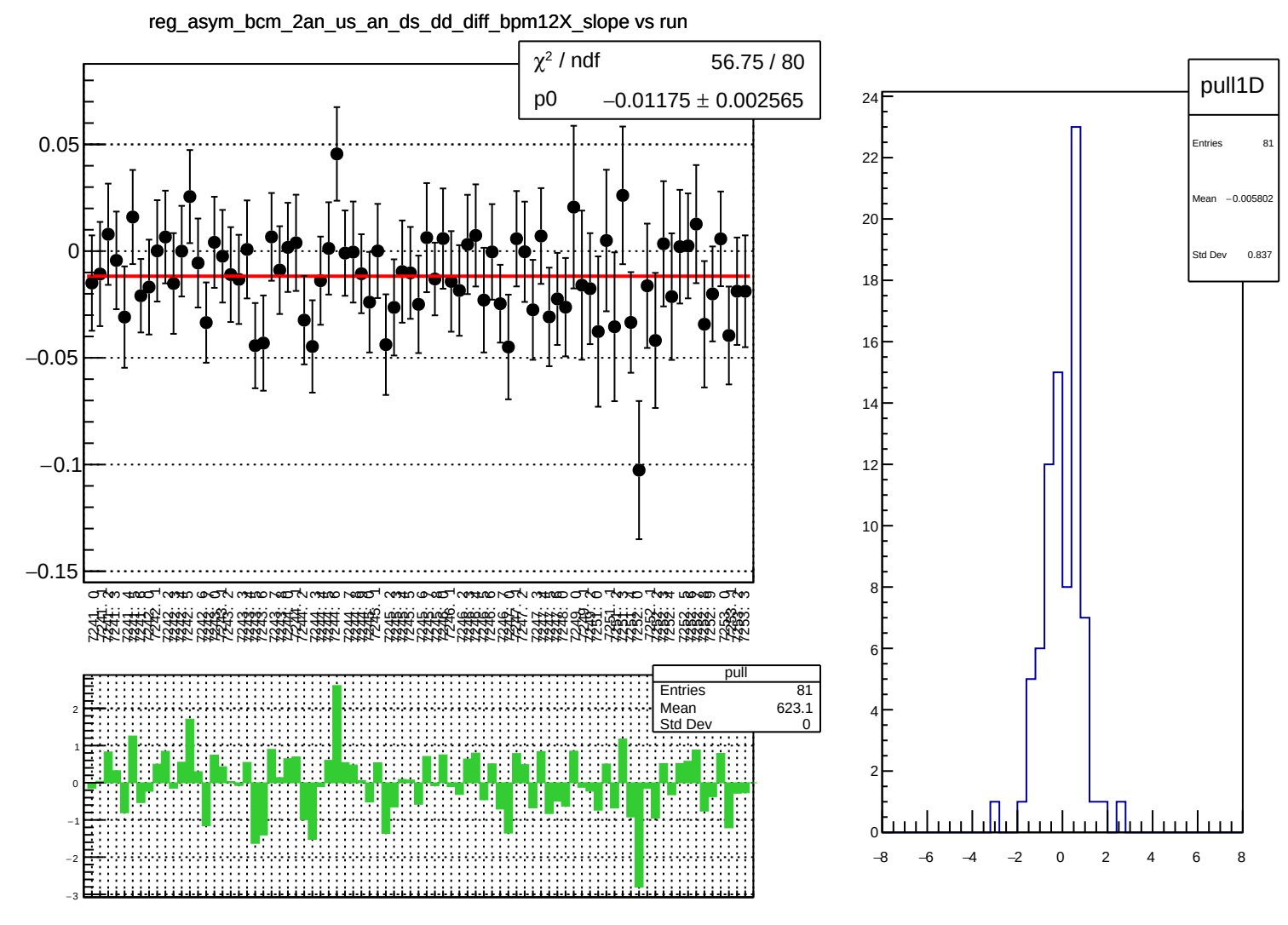

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 82.68 / 80
p0 0.209 ± 0.05348
pull
Entries 81
Mean 201.9
Std Dev 0

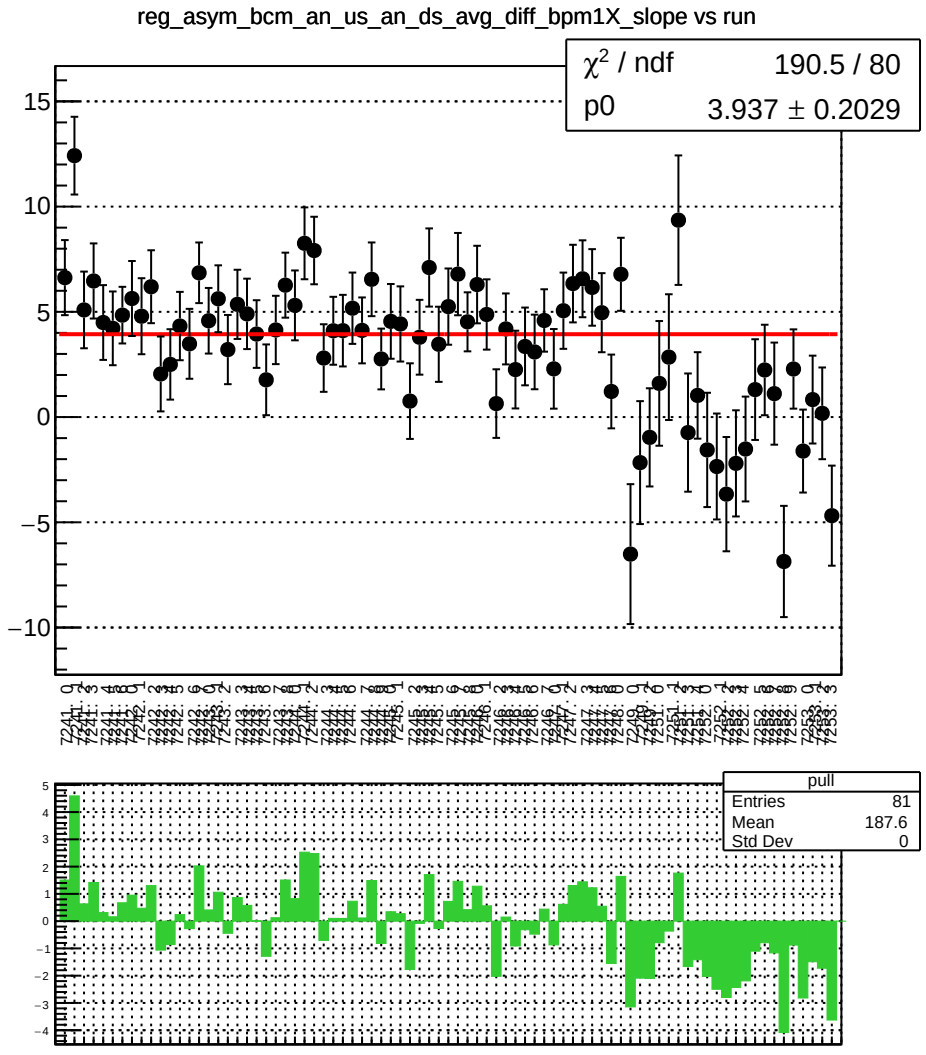

pull1D
Entries 81
Mean 0.02876
Std Dev 1.01

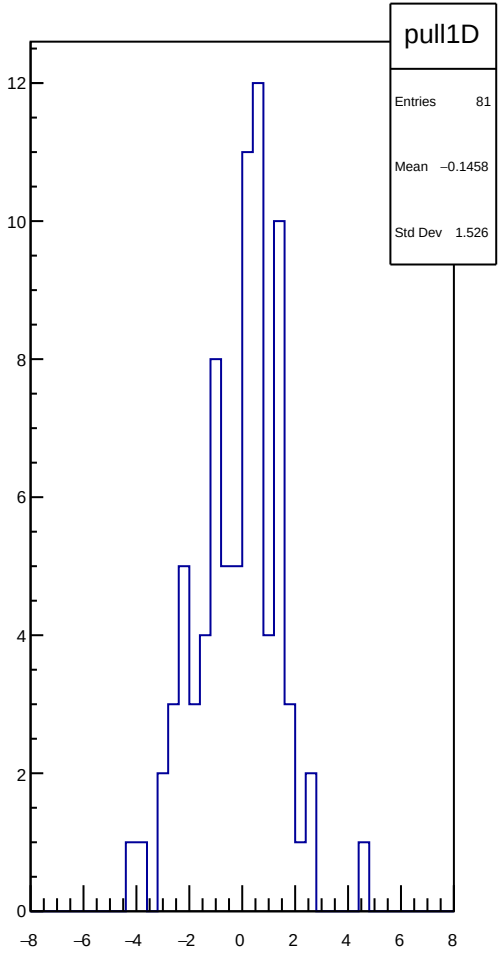

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 176.1 / 80
p0 −1.388 ± 0.07205
pull
Entries 81
Mean 187.2
Std Dev 0

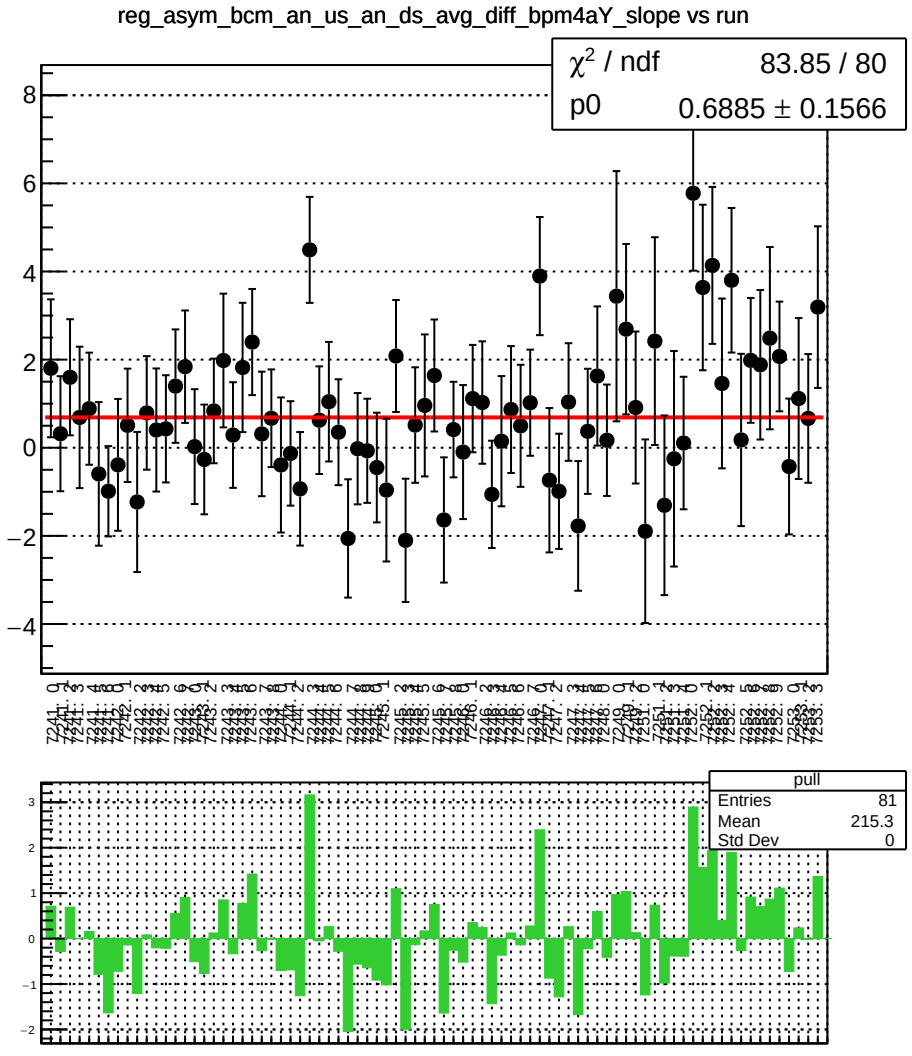

pull1D
Entries 81
Mean 0.1366
Std Dev 1.468

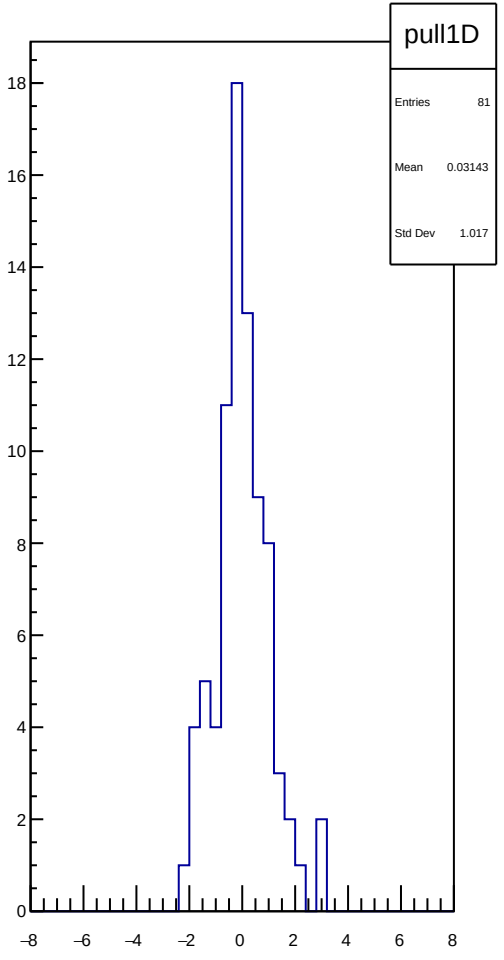

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 107.6 / 80
p0 −0.421 ± 0.05735
pull
Entries 81
Mean 185.9
Std Dev 0
pull1D
Entries 81
Mean −0.04618
Std Dev 1.152

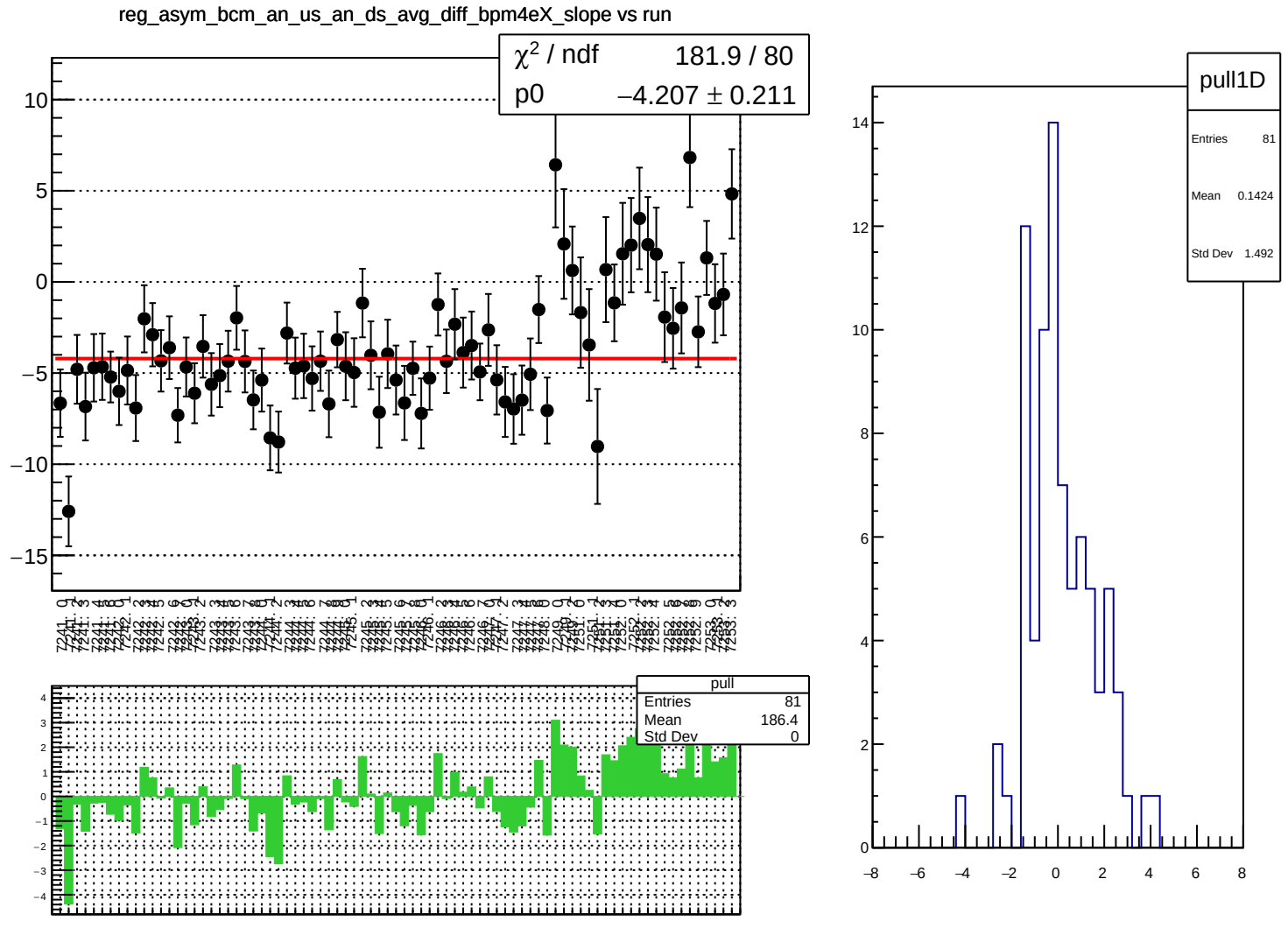

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 56.75 / 80
p0 −0.01175 ± 0.002565
0.05
0
−0.05
−0.1
−0.15
pull
Entries 81
Mean 623.1
Std Dev 0
pull1D
Entries 81
Mean −0.005802
Std Dev 0.837
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

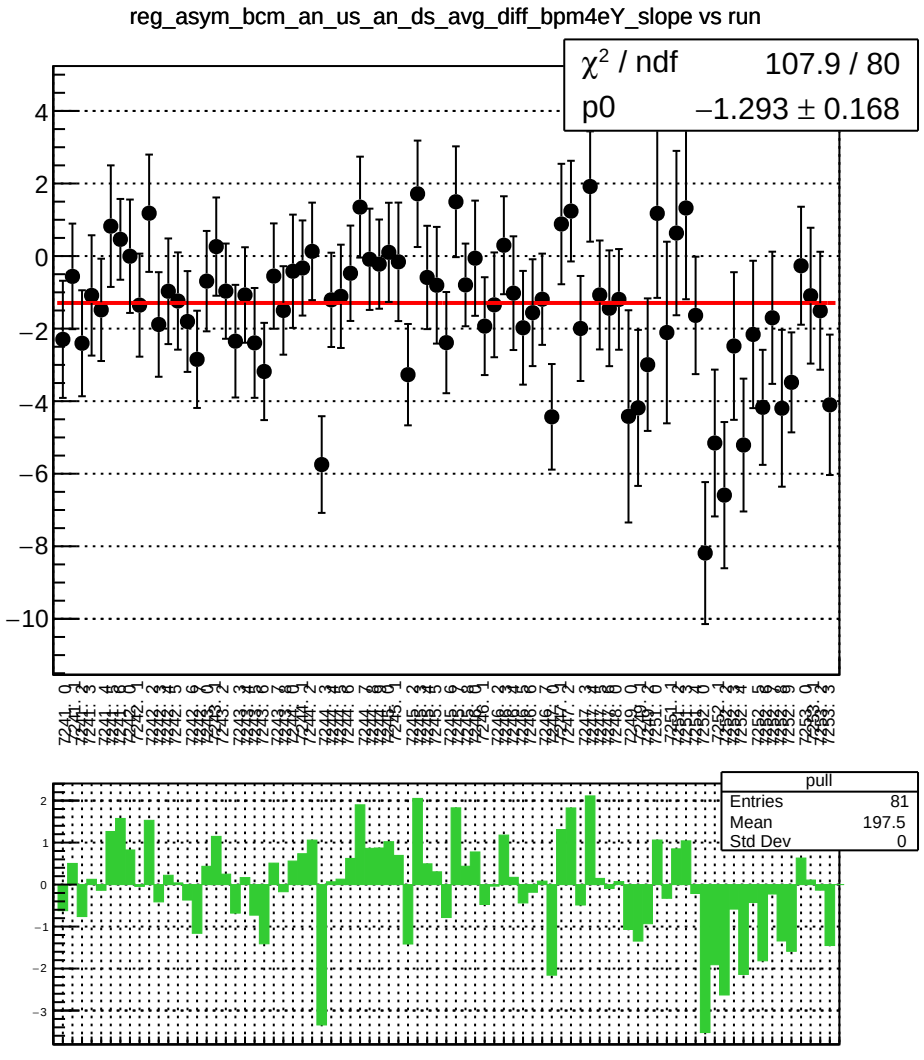

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 190.5 / 80
p0 3.937 ± 0.2029
pull
Entries 81
Mean 187.6
Std Dev 0

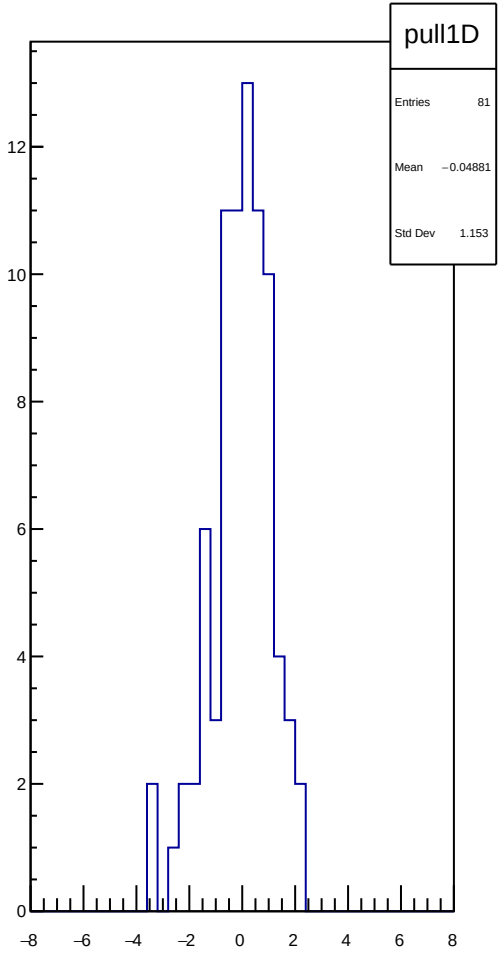

pull1D
Entries 81
Mean −0.1458
Std Dev 1.526

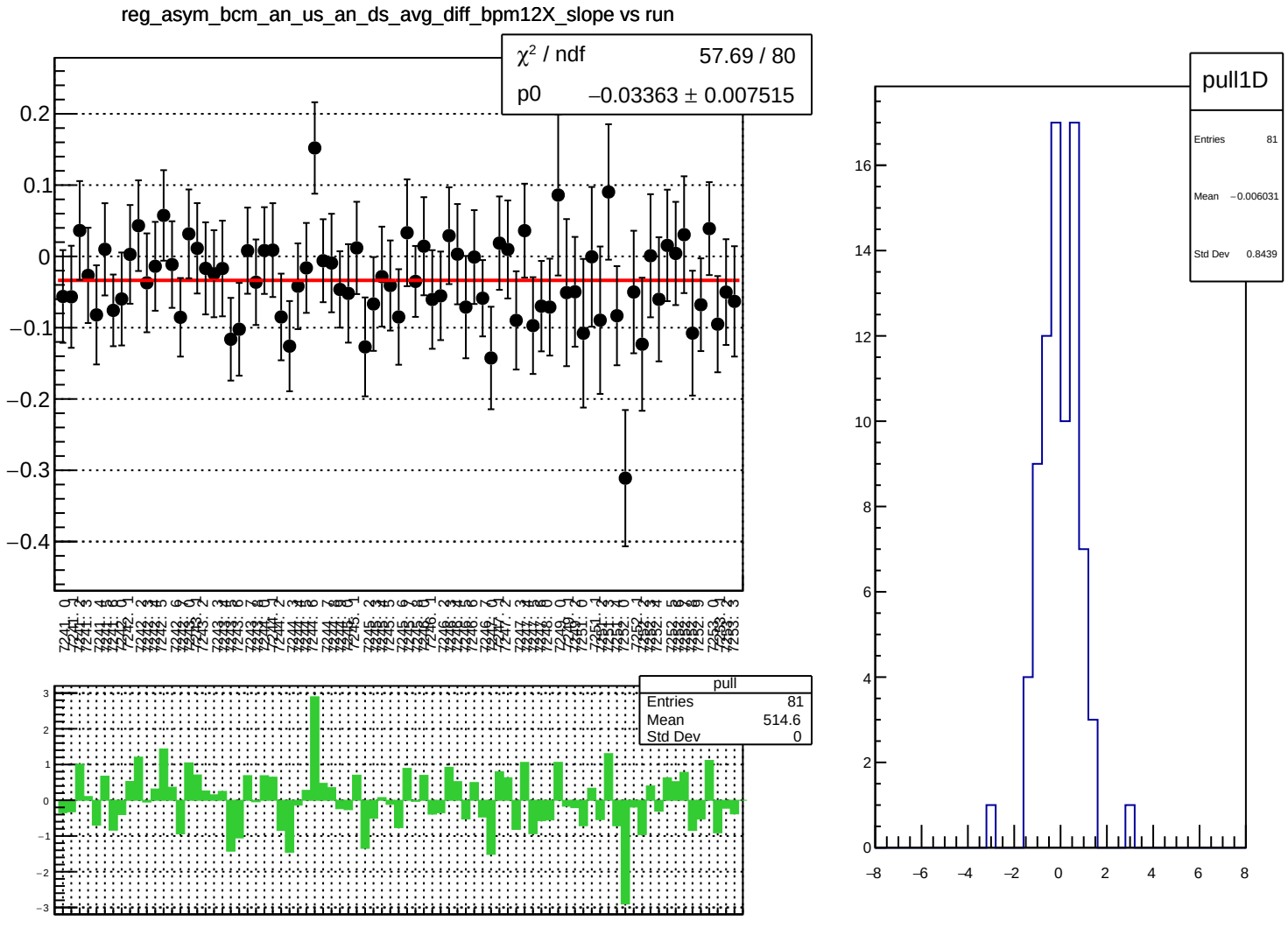

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 83.85 / 80
p0 0.6885 ± 0.1566
pull
Entries 81
Mean 215.3
Std Dev 0

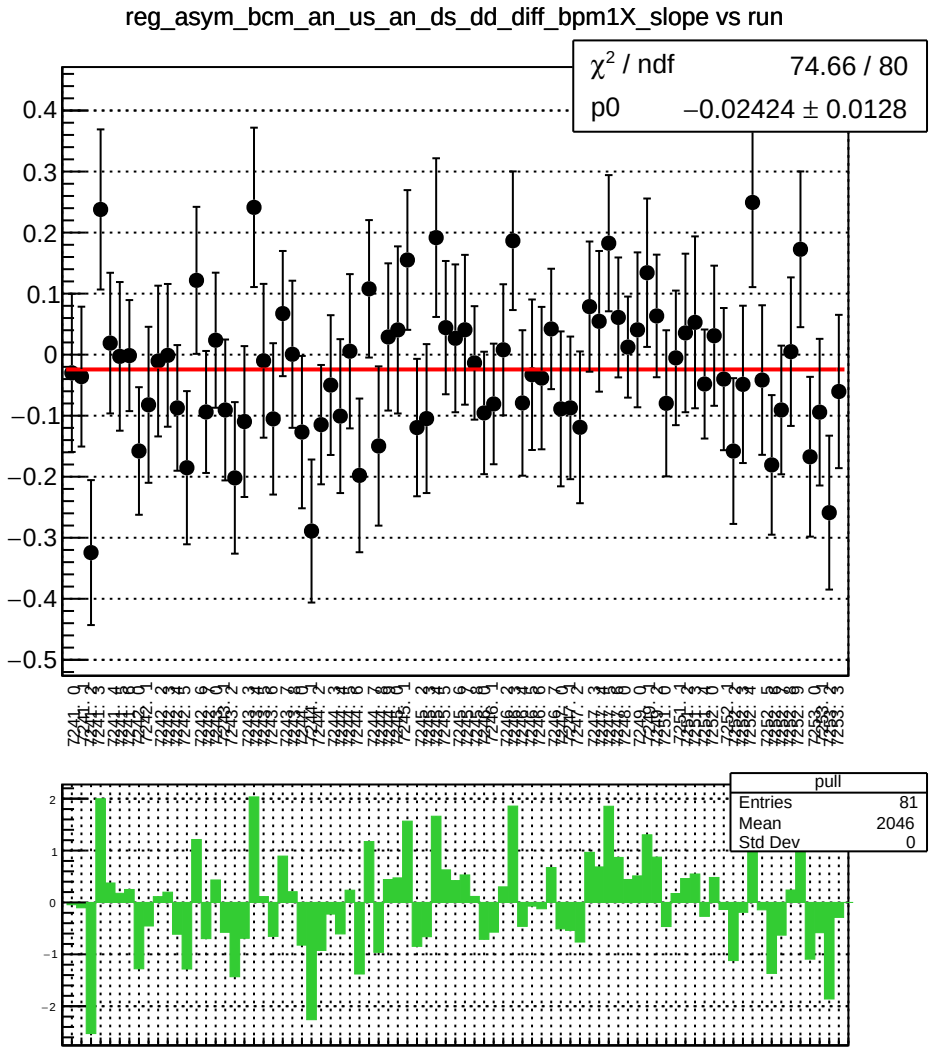

pull1D
Entries 81
Mean 0.03143
Std Dev 1.017

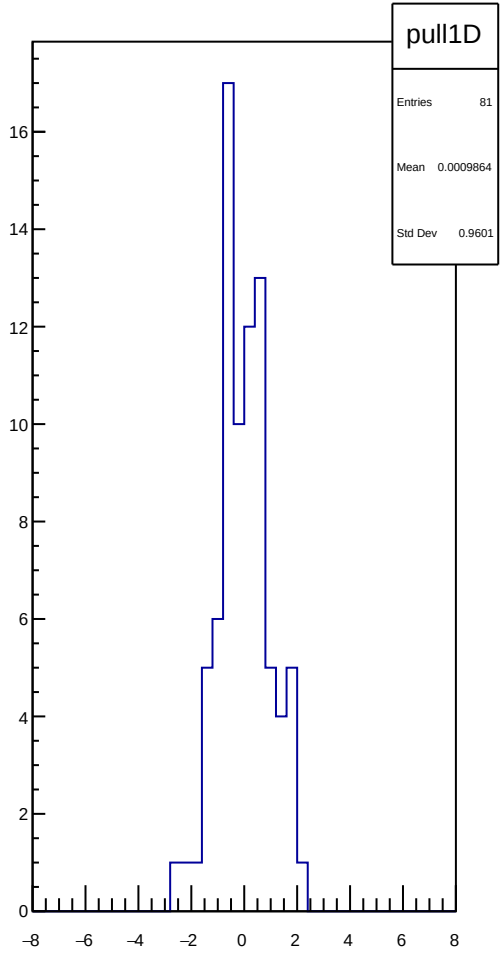

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 181.9 / 80
p0 −4.207 ± 0.211
pull
Entries 81
Mean 186.4
Std Dev 0
pull1D
Entries 81
Mean 0.1424
Std Dev 1.492

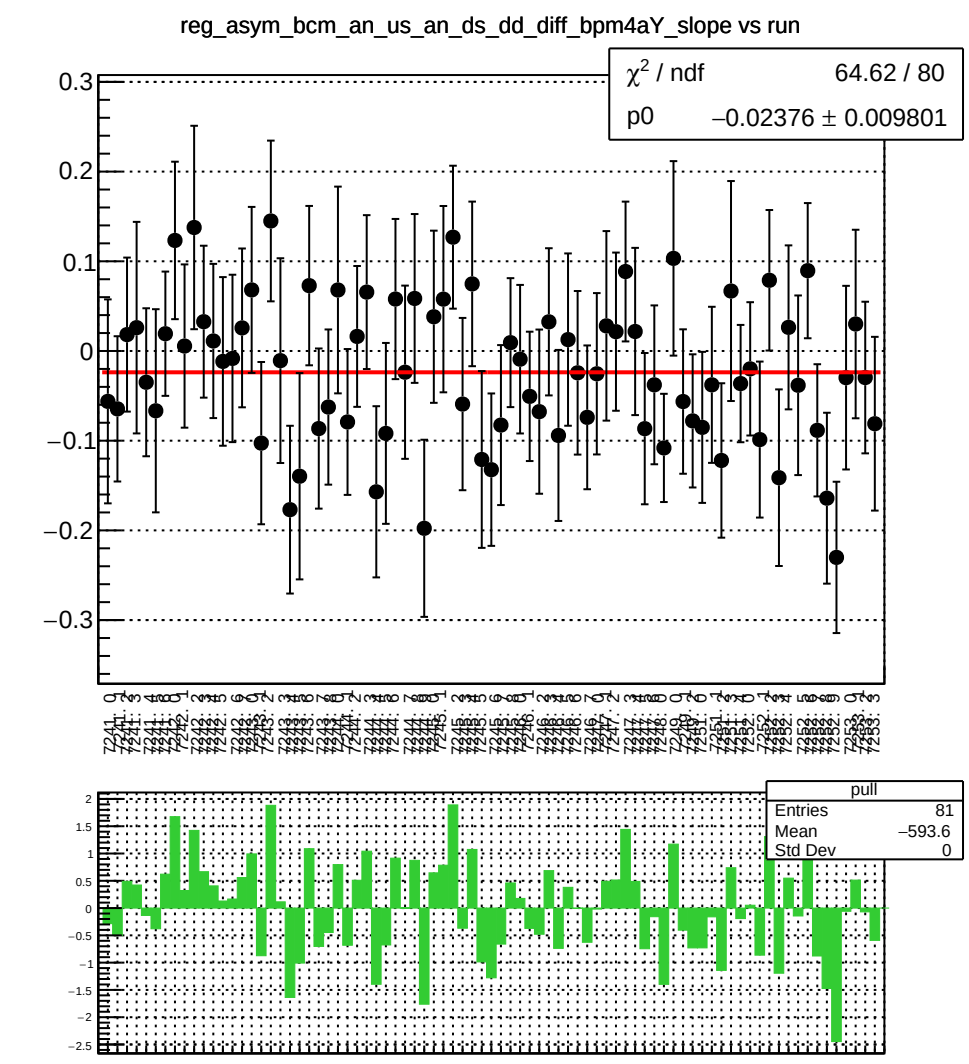

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 107.9 / 80
p0 −1.293 ± 0.168
pull
Entries 81
Mean 197.5
Std Dev 0

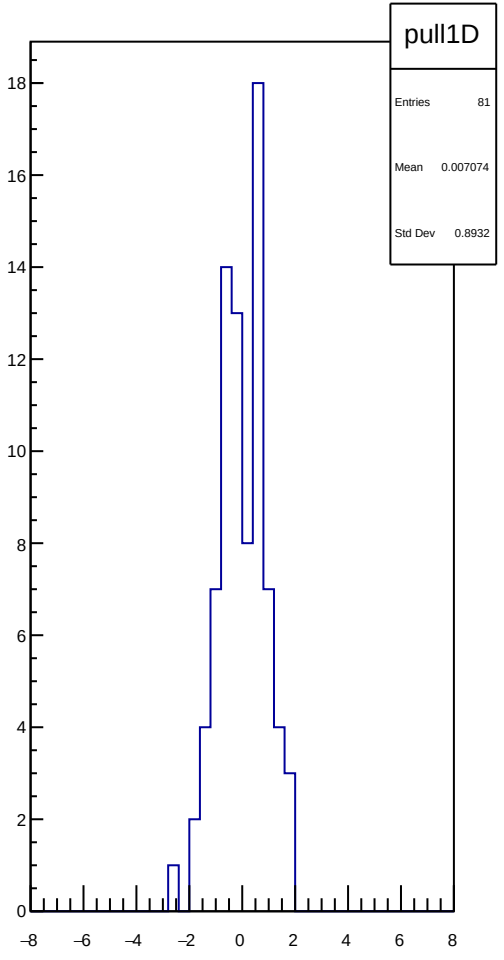

pull1D
Entries 81
Mean −0.04881
Std Dev 1.153

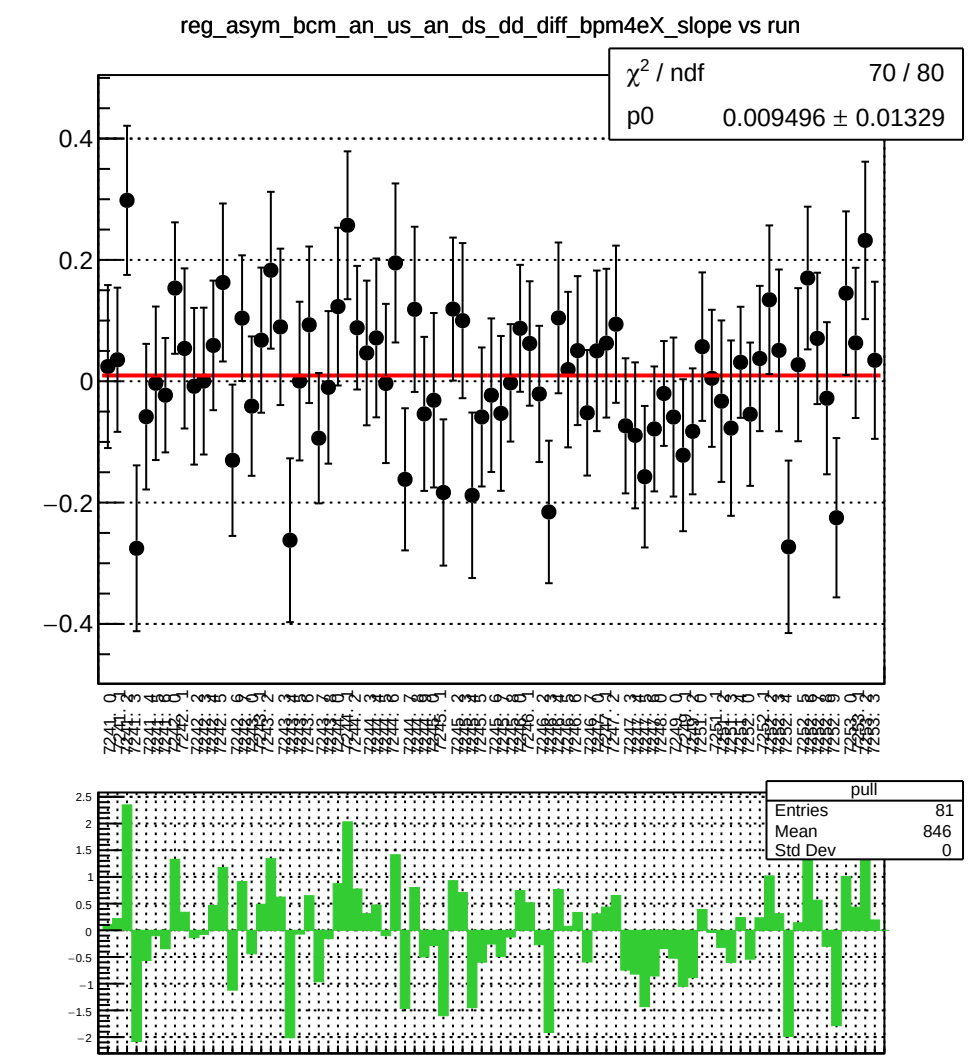

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 57.69 / 80
p0 −0.03363 ± 0.007515
pull
Entries 81
Mean 514.6
Std Dev 0
pull1D
Entries 81
Mean −0.006031
Std Dev 0.8439

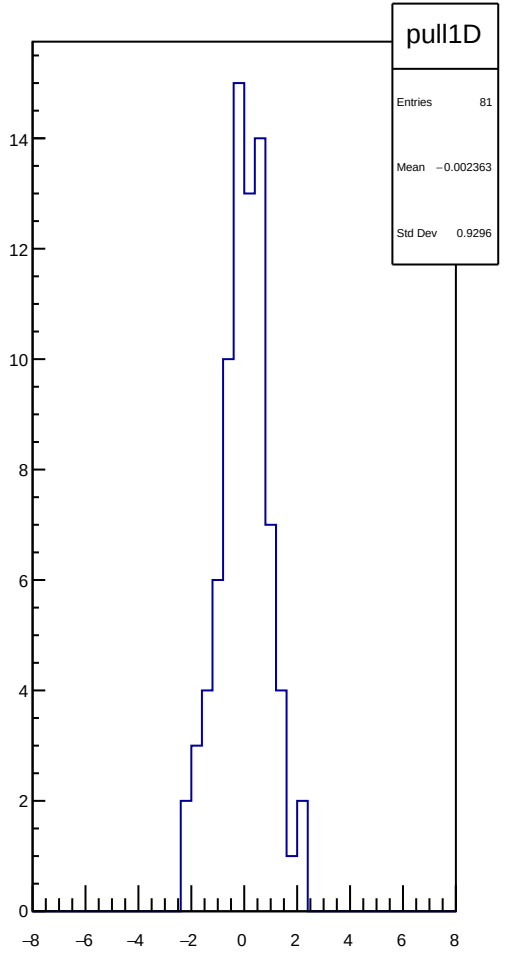

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 74.66 / 80
p0 −0.02424 ± 0.0128
pull
Entries 81
Mean 2046
Std Dev 0

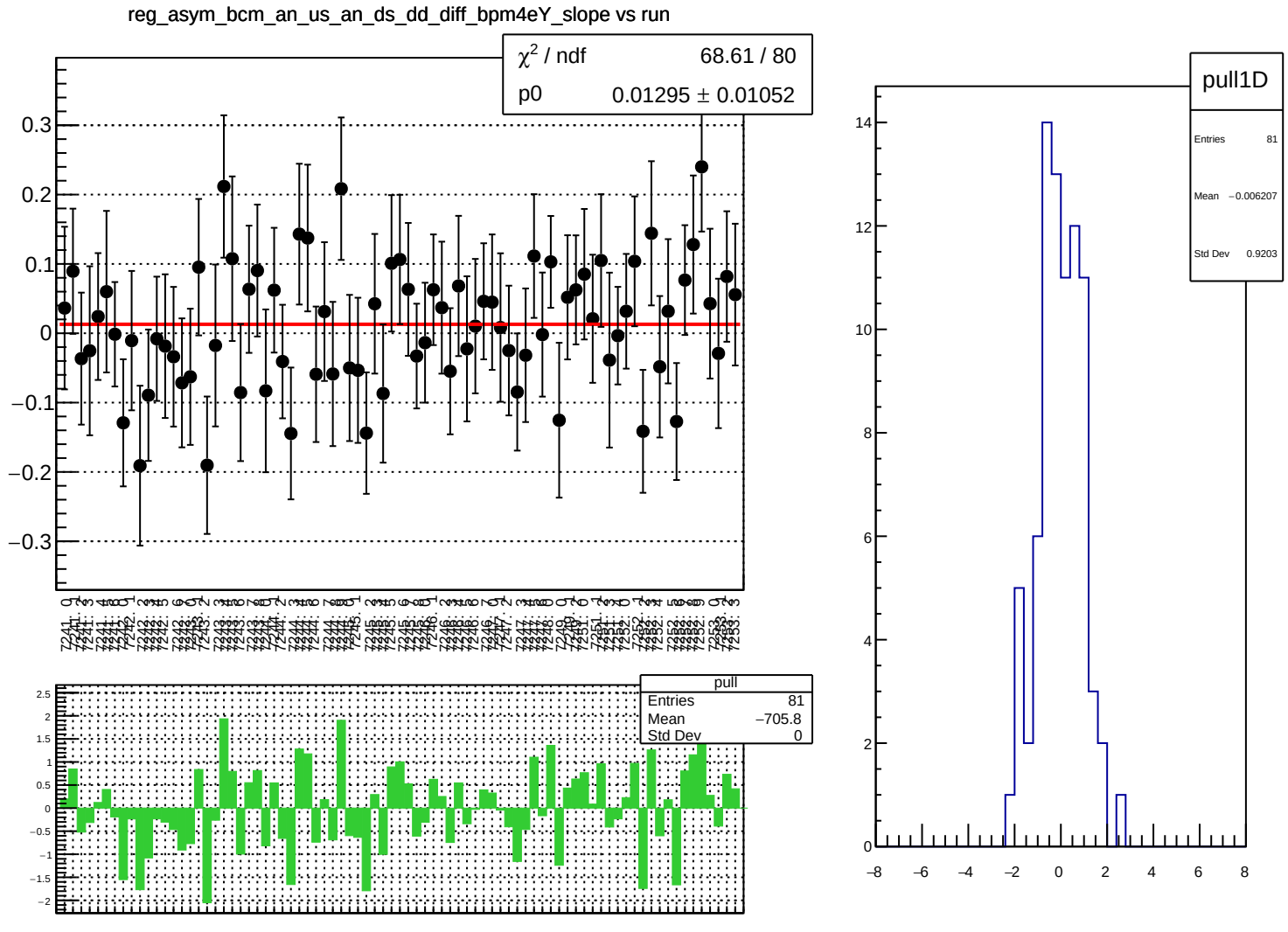

pull1D
Entries 81
Mean 0.0009864
Std Dev 0.9601

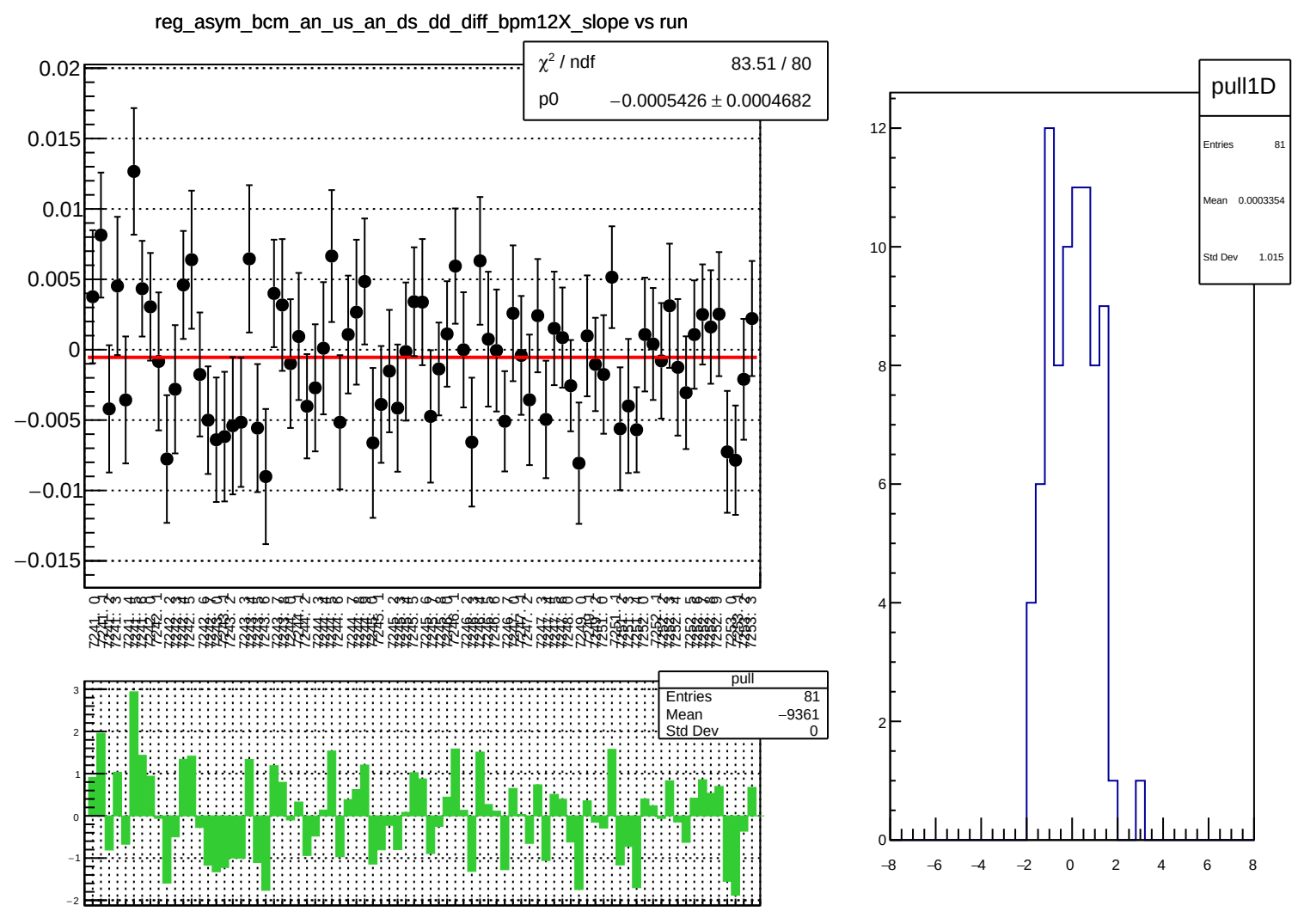

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 64.62 / 80
p0 −0.02376 ± 0.009801
pull
Entries 81
Mean −593.6
Std Dev 0

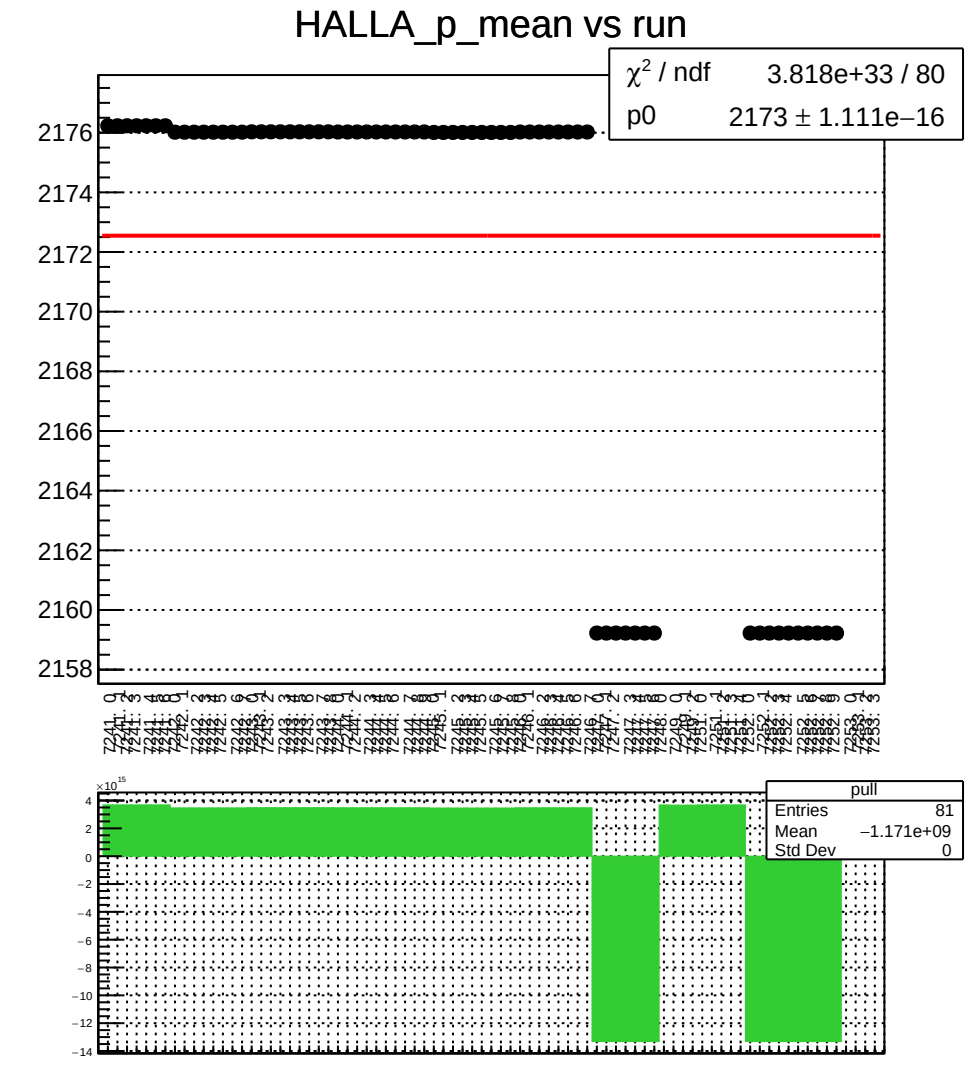

pull1D
Entries 81
Mean 0.007074
Std Dev 0.8932

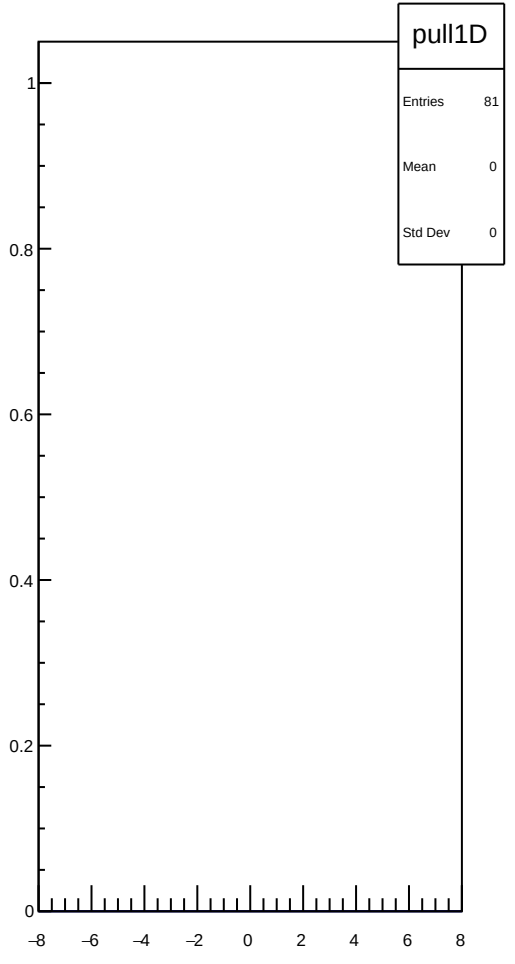

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 70 / 80
p0 0.009496 ± 0.01329
0.4
0.2
0
−0.2
−0.4
pull
Entries 81
Mean 846
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

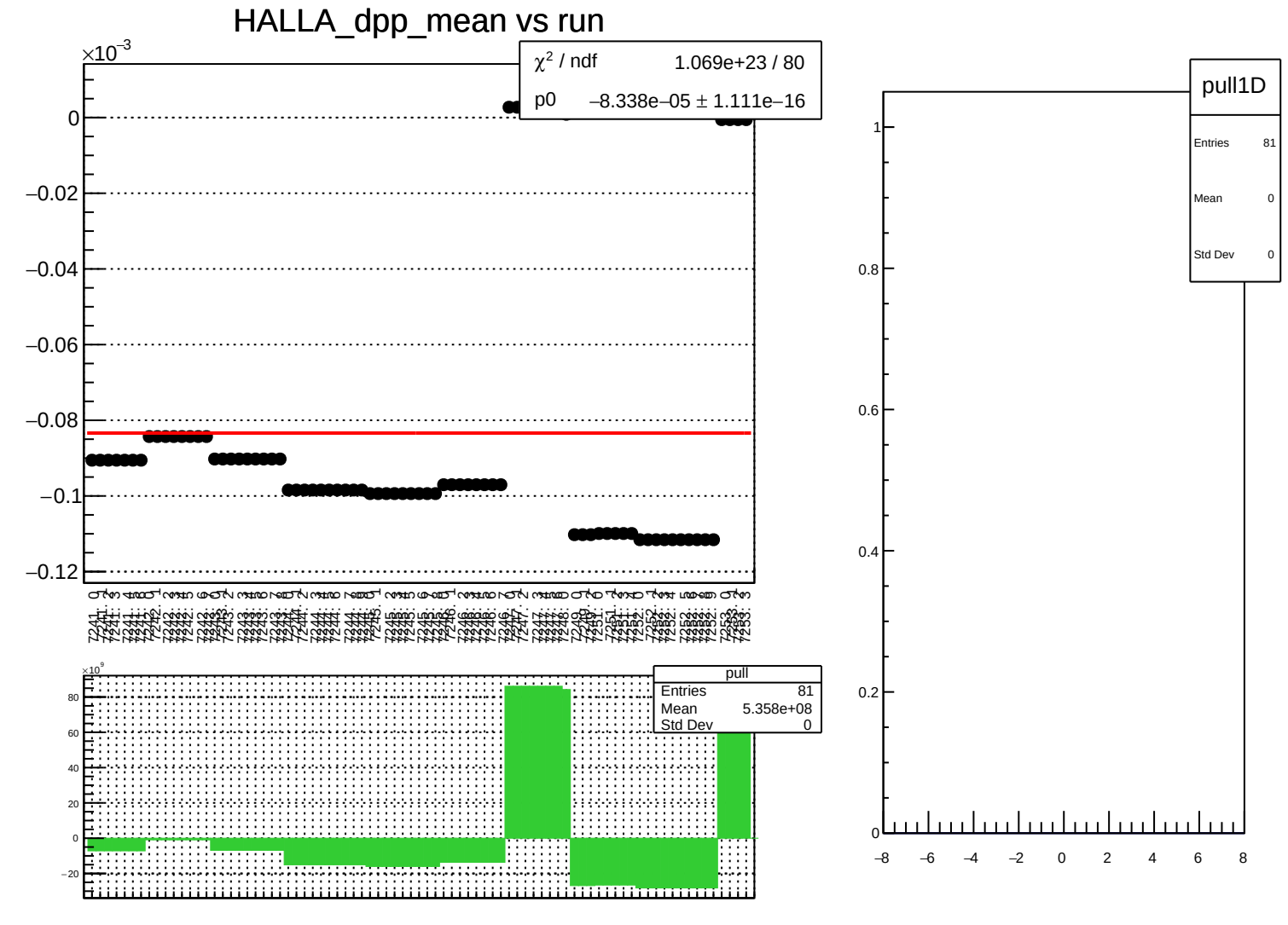

pull1D
Entries 81
Mean −0.002363
Std Dev 0.9296
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

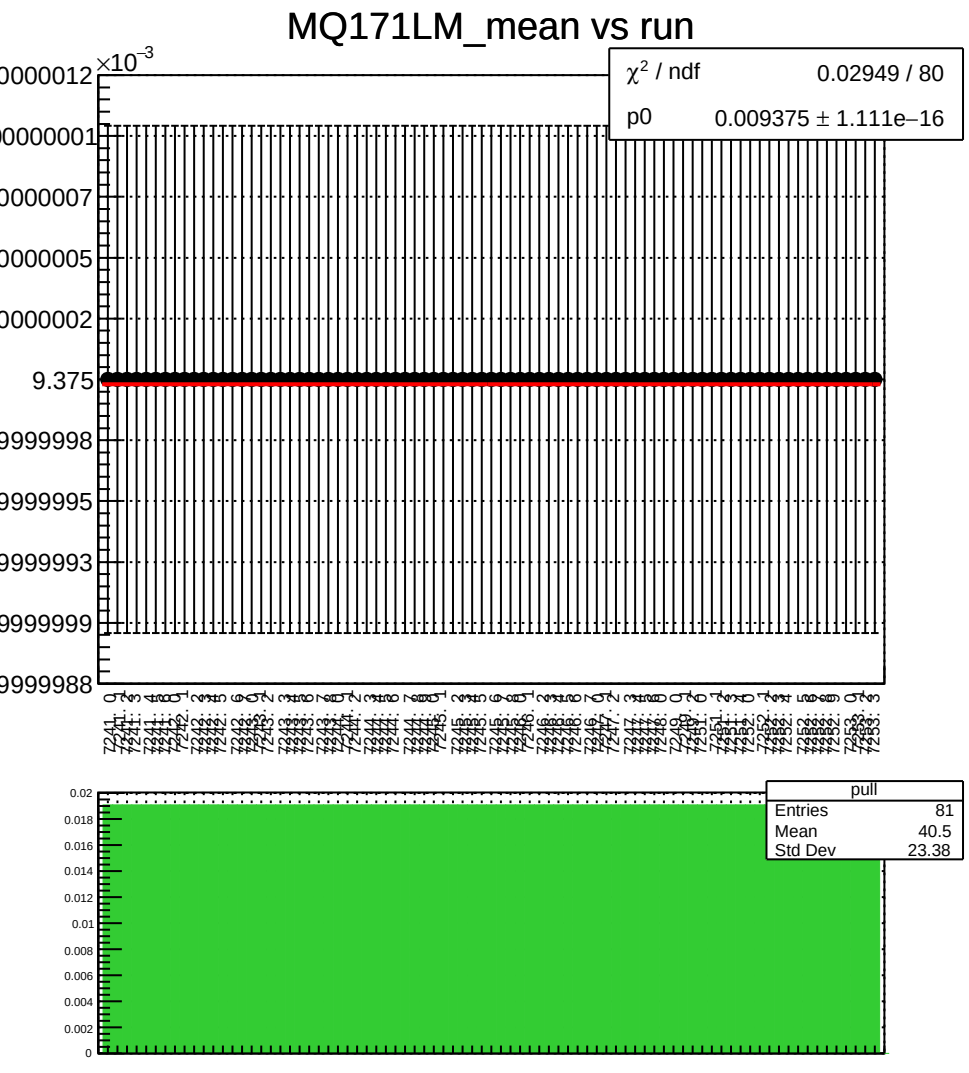

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 68.61 / 80
p0 0.01295 ± 0.01052
pull
Entries 81
Mean −705.8
Std Dev 0
pull1D
Entries 81
Mean −0.006207
Std Dev 0.9203

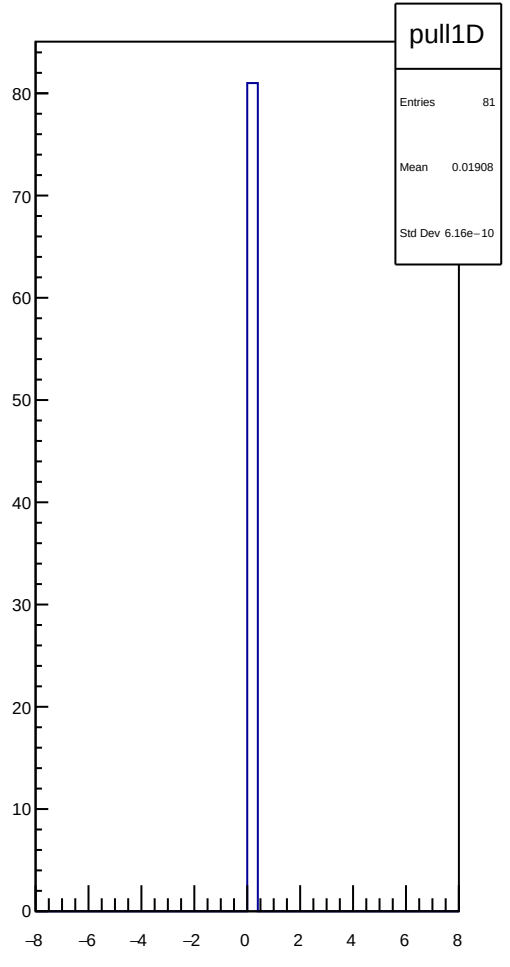

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 83.51 / 80
p0 −0.0005426 ± 0.0004682
pull
Entries 81
Mean −9361
Std Dev 0
pull1D
Entries 81
Mean 0.0003354
Std Dev 1.015

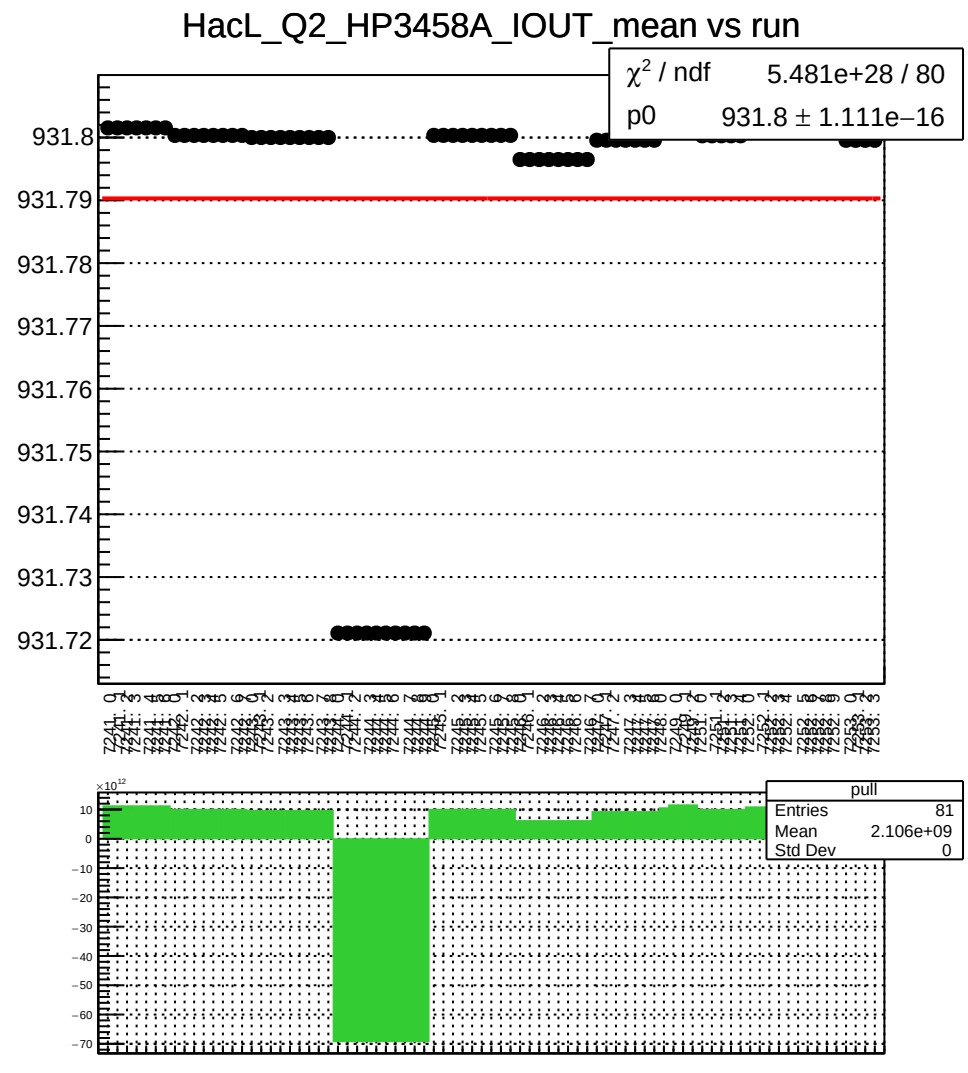

HALLA_p_mean vs run
χ² / ndf 3.818e+33 / 80
p0 2173 ± 1.111e−16
2176
2174
2172
2170
2168
2166
2164
2162
2160
2158
pull
Entries 81
Mean −1.171e+09
Std Dev 0
×10¹⁵
4
2
0
−2
−4
−6
−8
−10
−12
−14

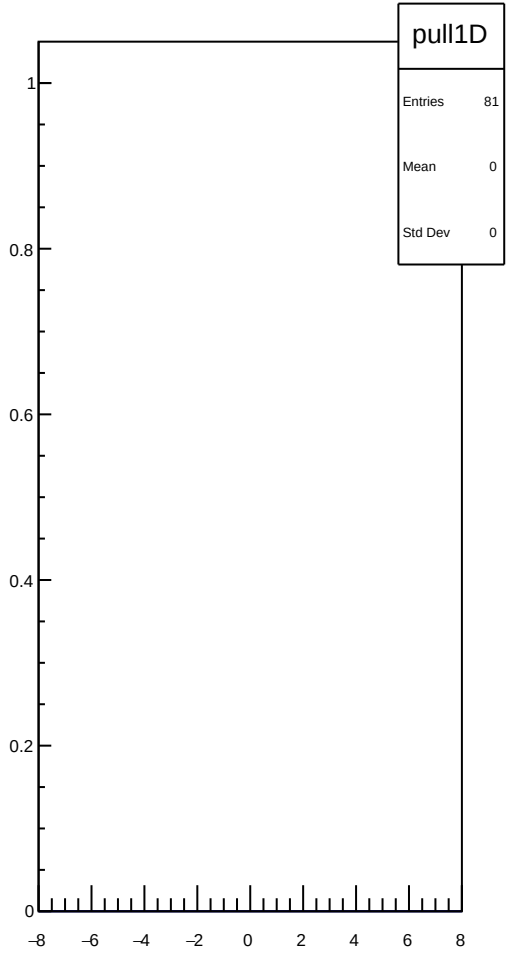

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

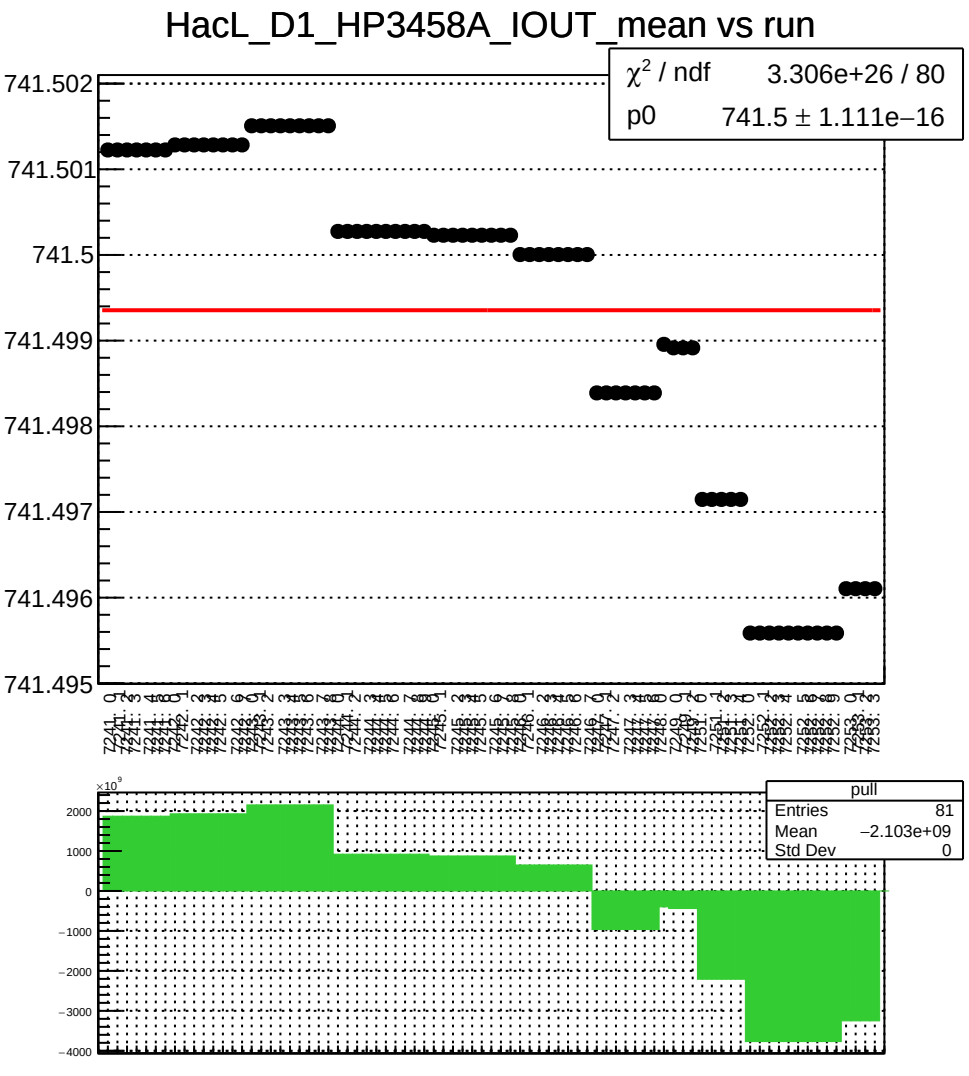

HALLA_dpp_mean vs run
χ² / ndf 1.069e+23 / 80
p0 −8.338e−05 ± 1.111e−16
pull
Entries 81
Mean 5.358e+08
Std Dev 0
pull1D
Entries 81
Mean 0
Std Dev 0

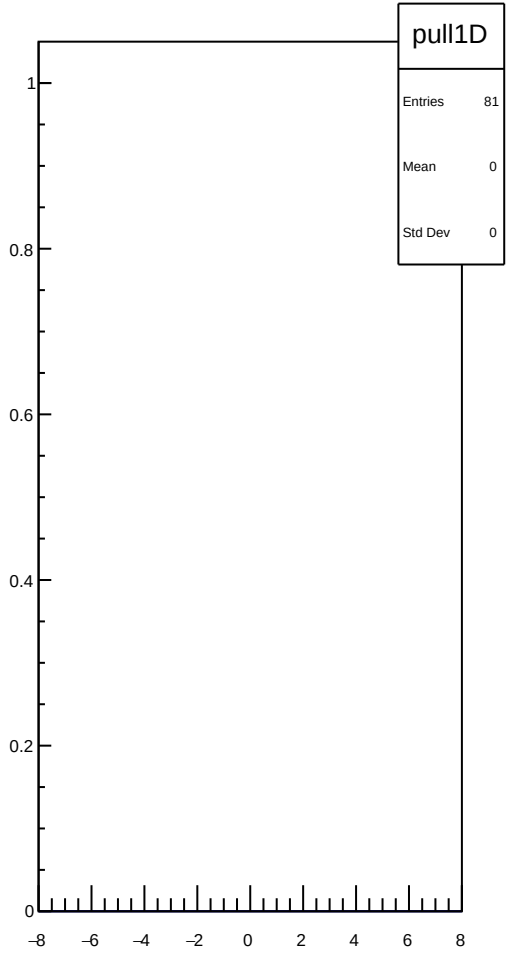

MQ171LM_mean vs run
χ² / ndf 0.02949 / 80
p0 0.009375 ± 1.111e−16
×10⁻³
9.375
pull
Entries 81
Mean 40.5
Std Dev 23.38

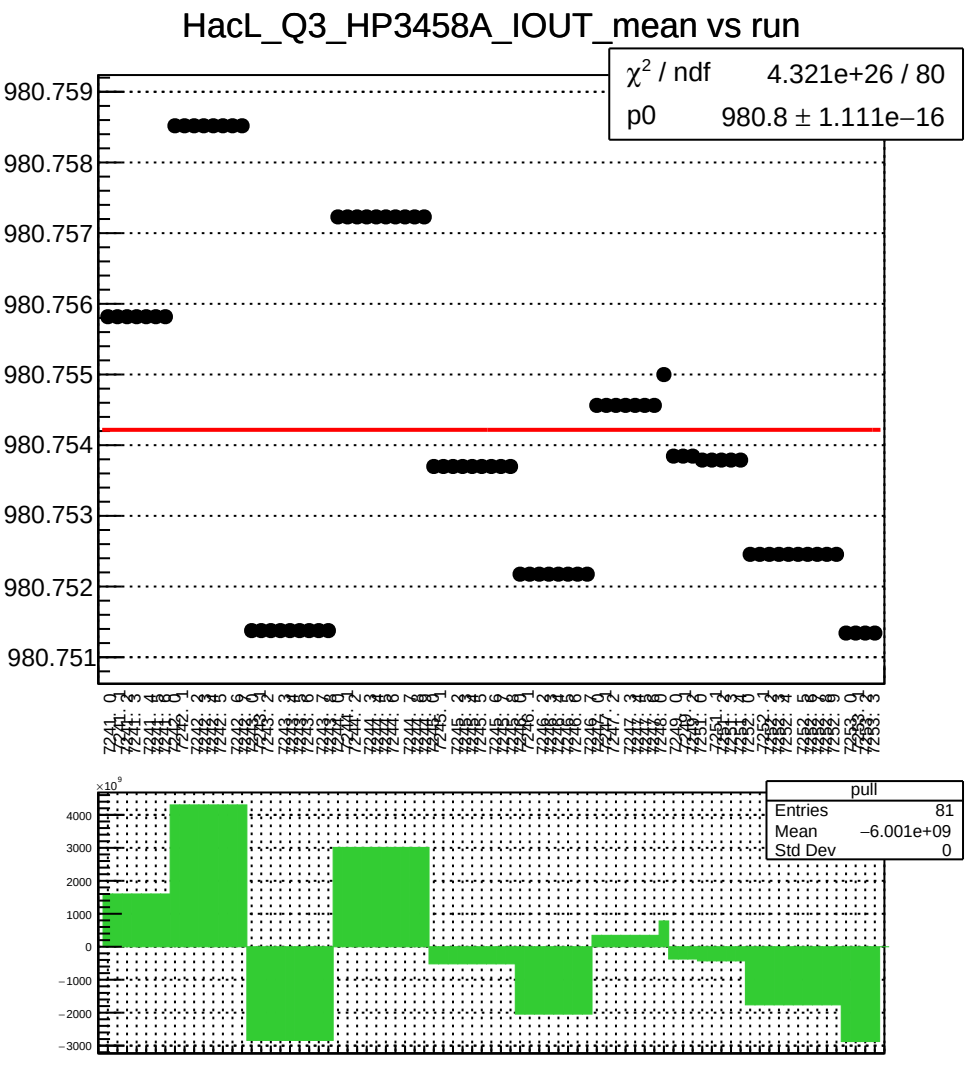

pull1D
Entries 81
Mean 0.01908
Std Dev 6.16e−10

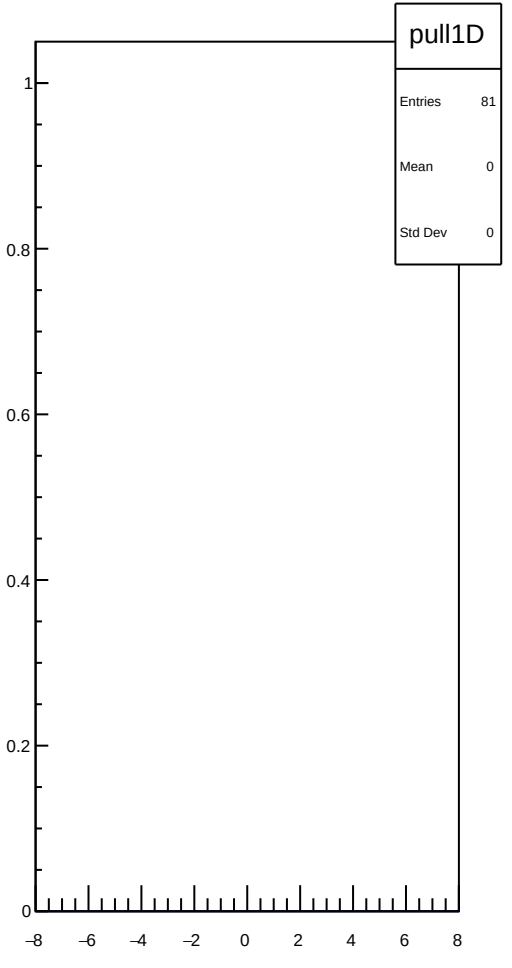

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 5.481e+28 / 80
p0 931.8 ± 1.111e−16
931.8
931.79
931.78
931.77
931.76
931.75
931.74
931.73
931.72
pull
Entries 81
Mean 2.106e+09
Std Dev 0
×10¹²
10
0
−10
−20
−30
−40
−50
−60
−70

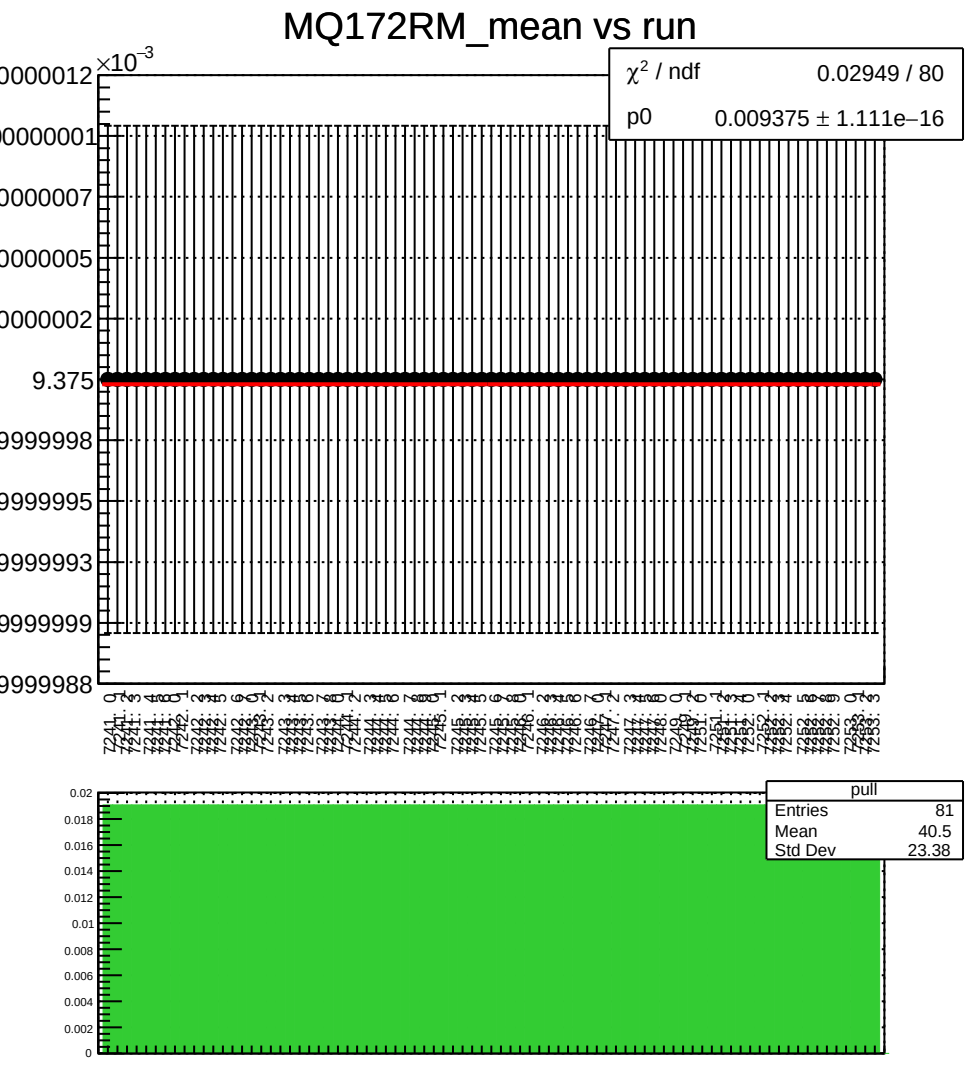

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

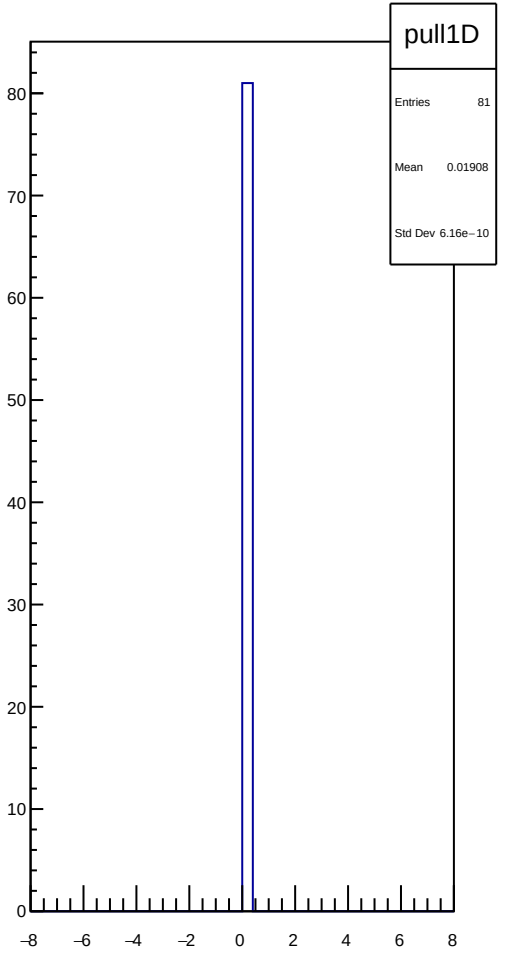

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 3.306e+26 / 80
p0 741.5 ± 1.111e−16
741.502
741.501
741.5
741.499
741.498
741.497
741.496
741.495
pull
Entries 81
Mean −2.103e+09
Std Dev 0
×10⁹
2000
1000
0
−1000
−2000
−3000
−4000

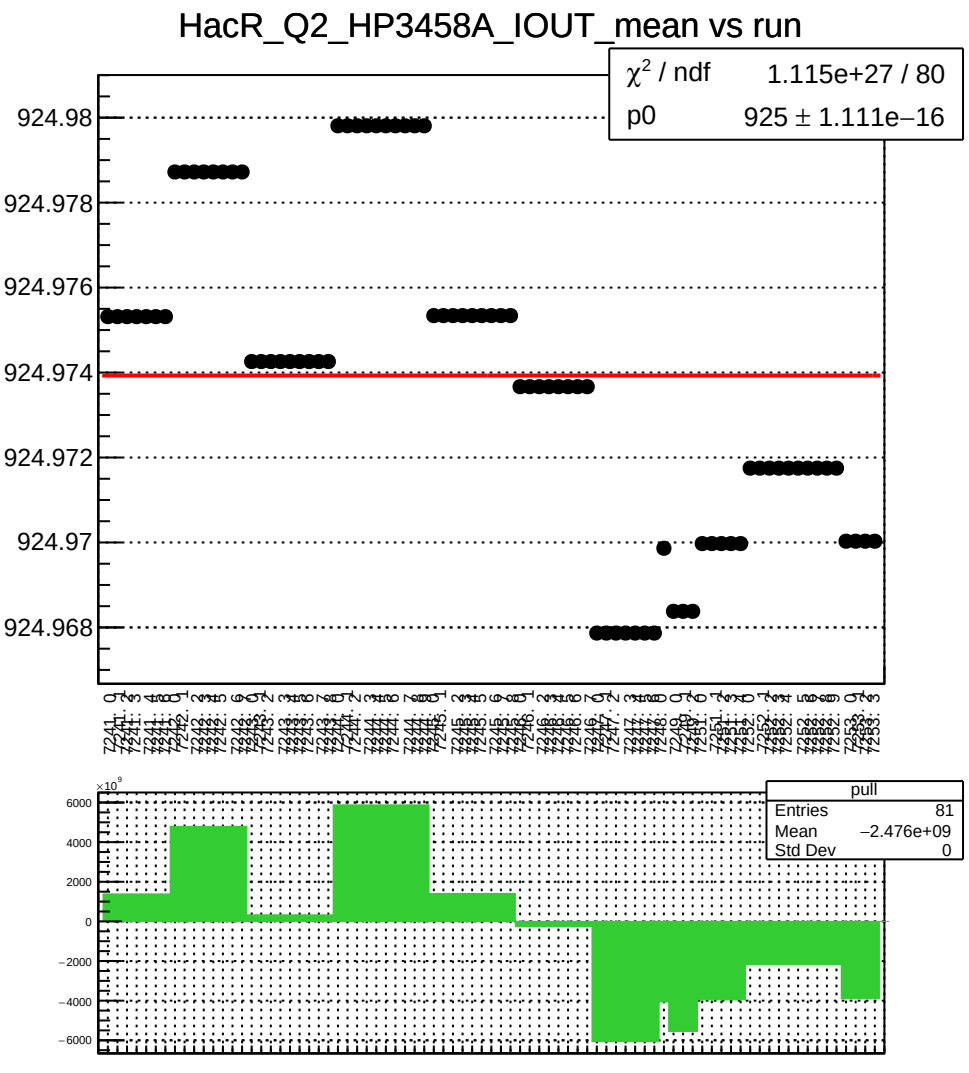

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

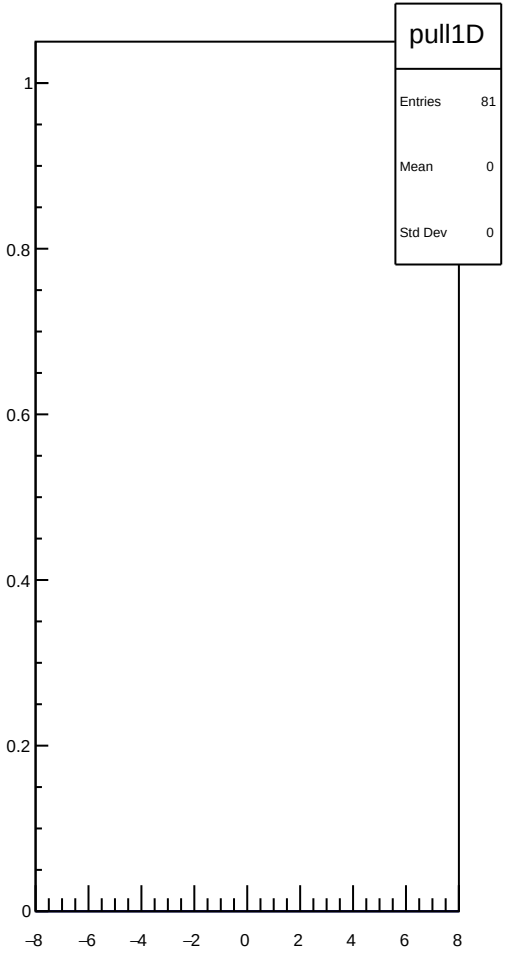

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 4.321e+26 / 80
p0 980.8 ± 1.111e−16
980.759
980.758
980.757
980.756
980.755
980.754
980.753
980.752
980.751
pull
Entries 81
Mean −6.001e+09
Std Dev 0
×10⁹
4000
3000
2000
1000
0
−1000
−2000
−3000

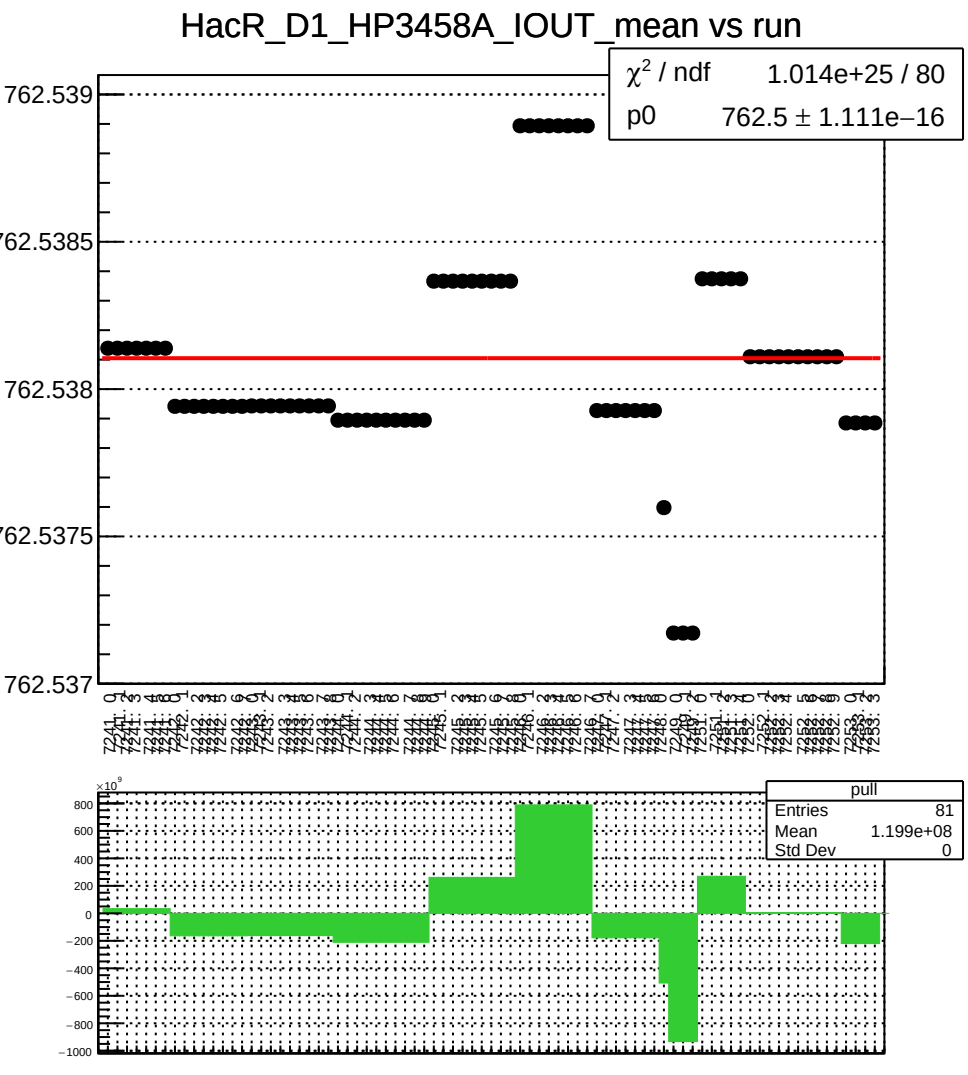

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

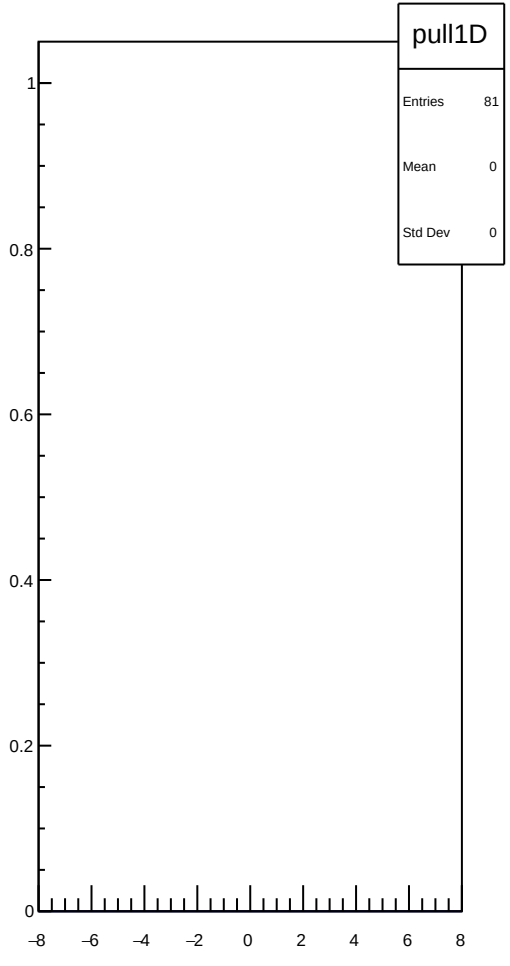

MQ172RM_mean vs run
χ² / ndf 0.02949 / 80
p0 0.009375 ± 1.111e−16
×10⁻³
pull
Entries 81
Mean 40.5
Std Dev 23.38

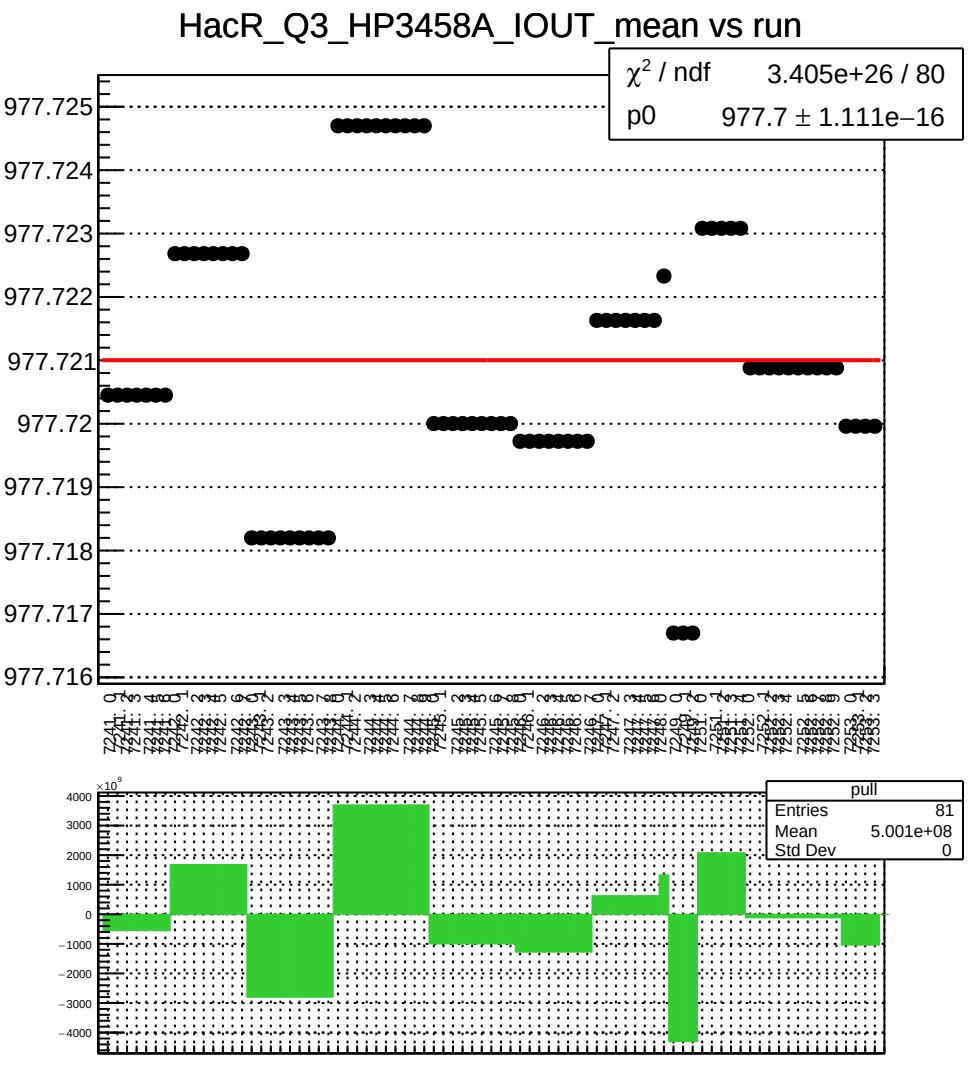

pull1D
Entries 81
Mean 0.01908
Std Dev 6.16e−10

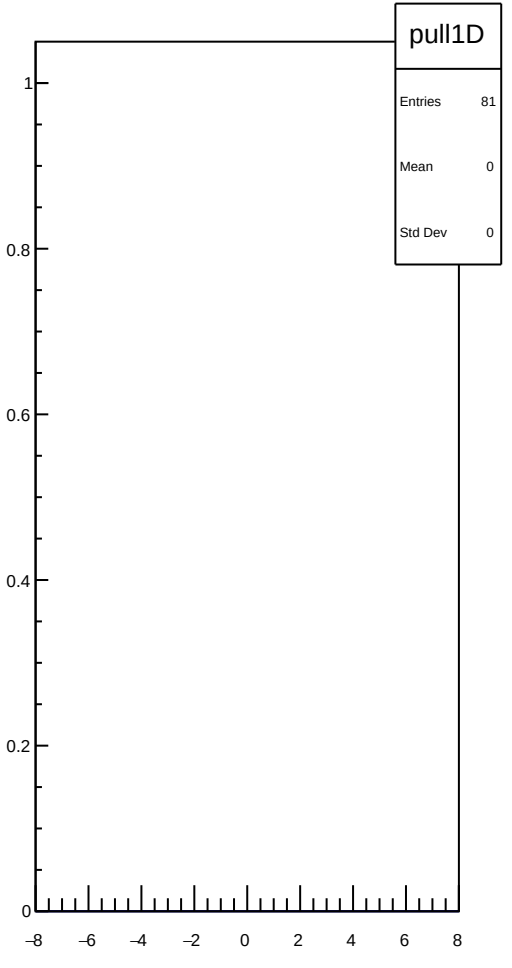

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 1.115e+27 / 80
p0 925 ± 1.111e−16
924.98
924.978
924.976
924.974
924.972
924.97
924.968
pull
Entries 81
Mean −2.476e+09
Std Dev 0
×10⁹
6000
4000
2000
0
−2000
−4000
−6000

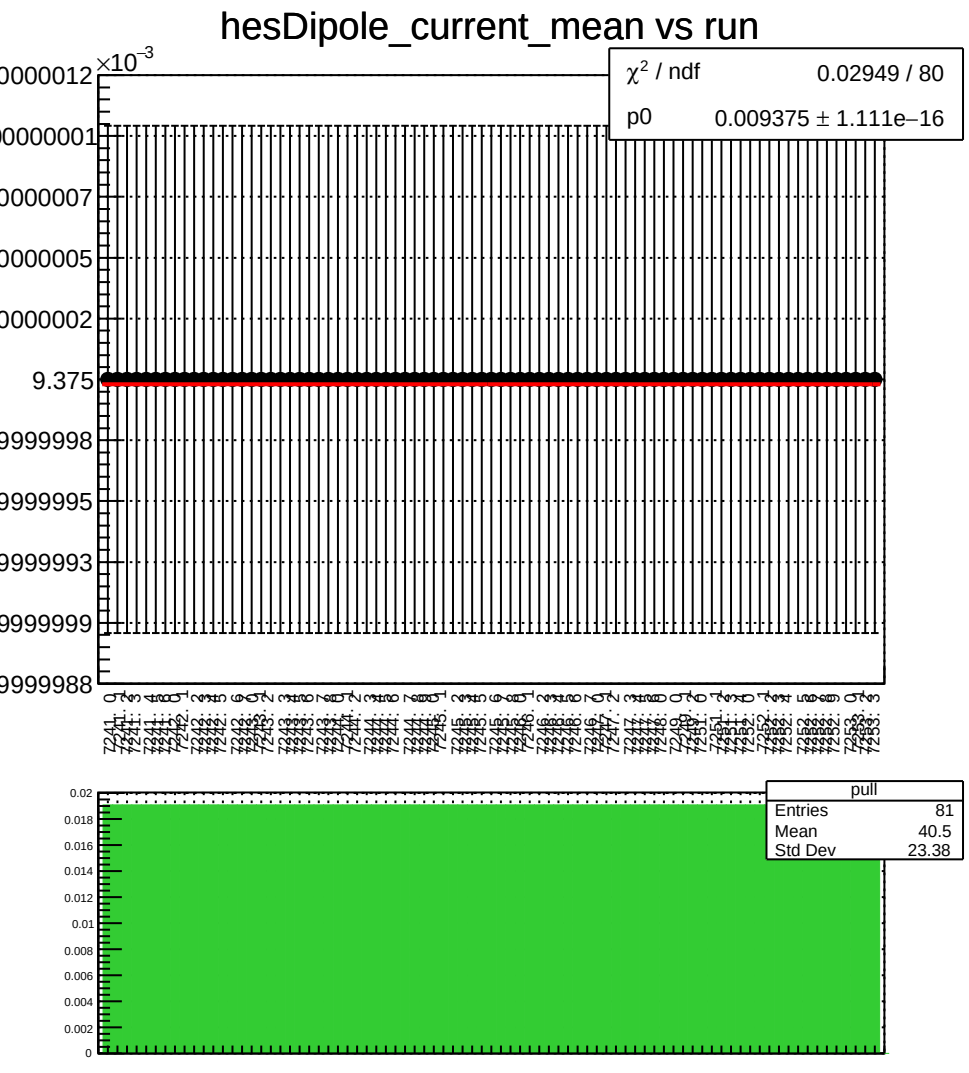

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

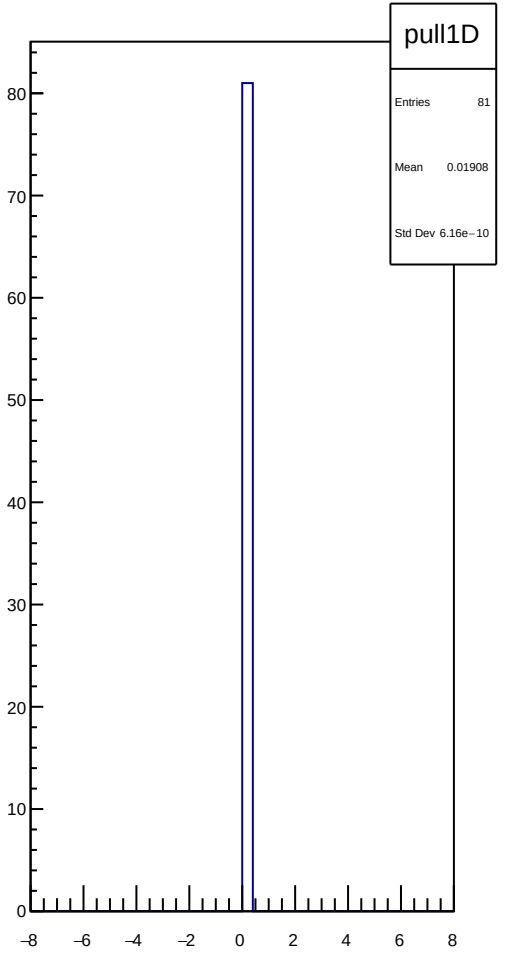

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.014e+25 / 80
p0 762.5 ± 1.111e−16
762.539
762.5385
762.538
762.5375
762.537
pull
Entries 81
Mean 1.199e+08
Std Dev 0
×10⁹
800
600
400
200
0
−200
−400
−600
−800
−1000

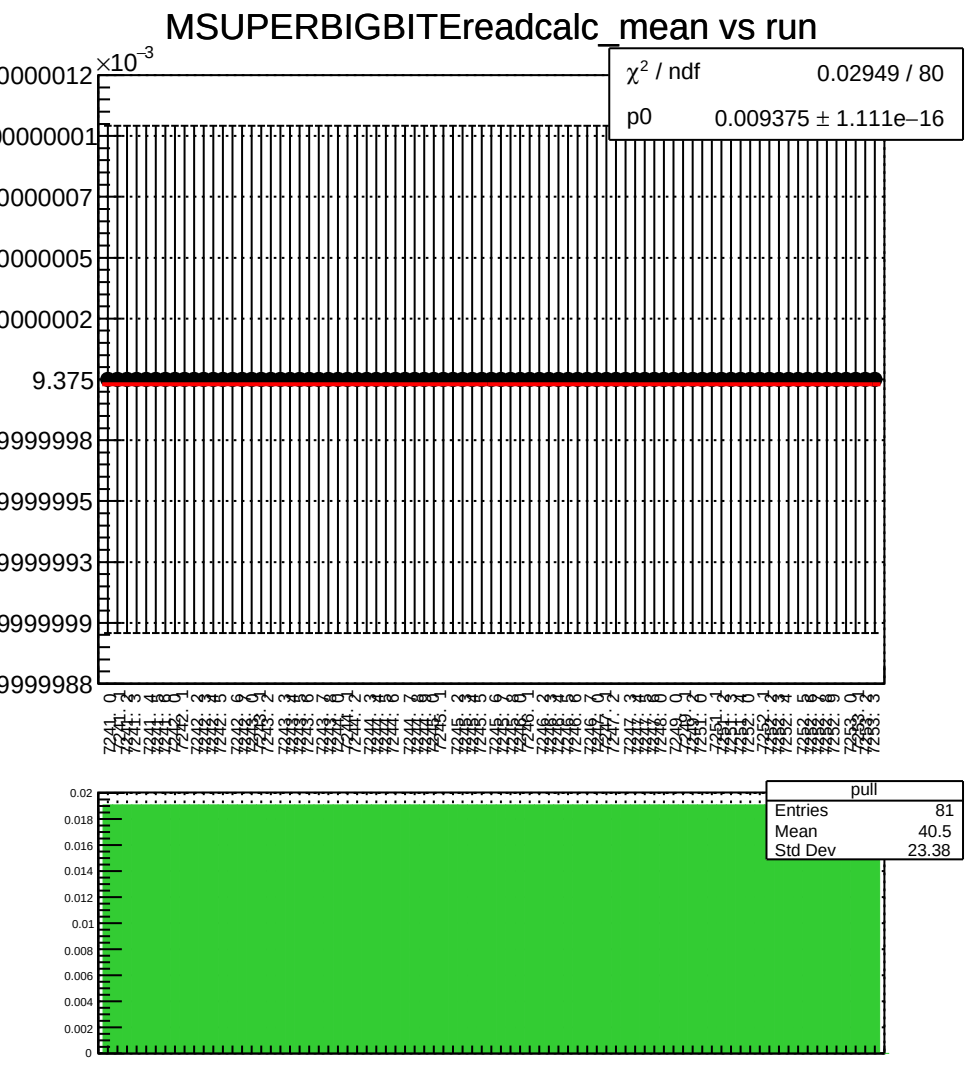

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

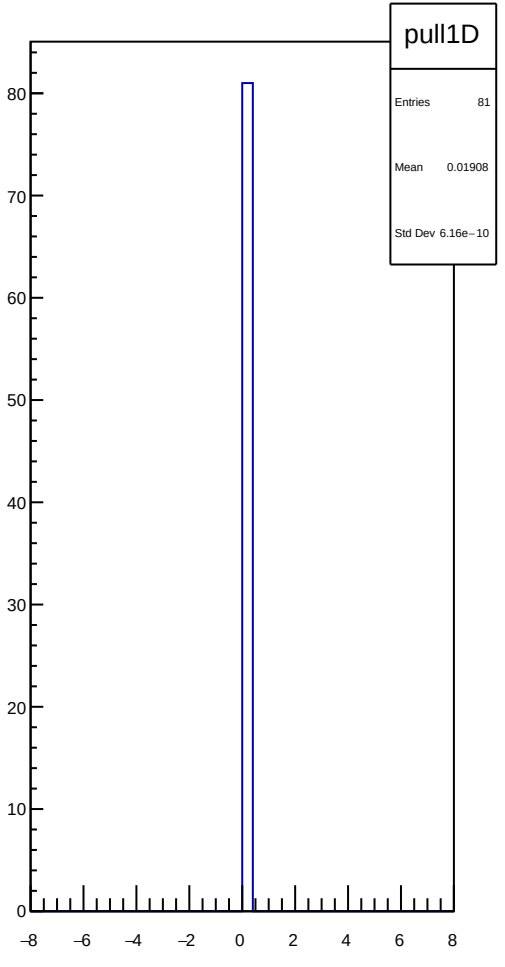

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 3.405e+26 / 80
p0 977.7 ± 1.111e−16
977.725
977.724
977.723
977.722
977.721
977.72
977.719
977.718
977.717
977.716
pull
Entries 81
Mean 5.001e+08
Std Dev 0
×10⁹
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000

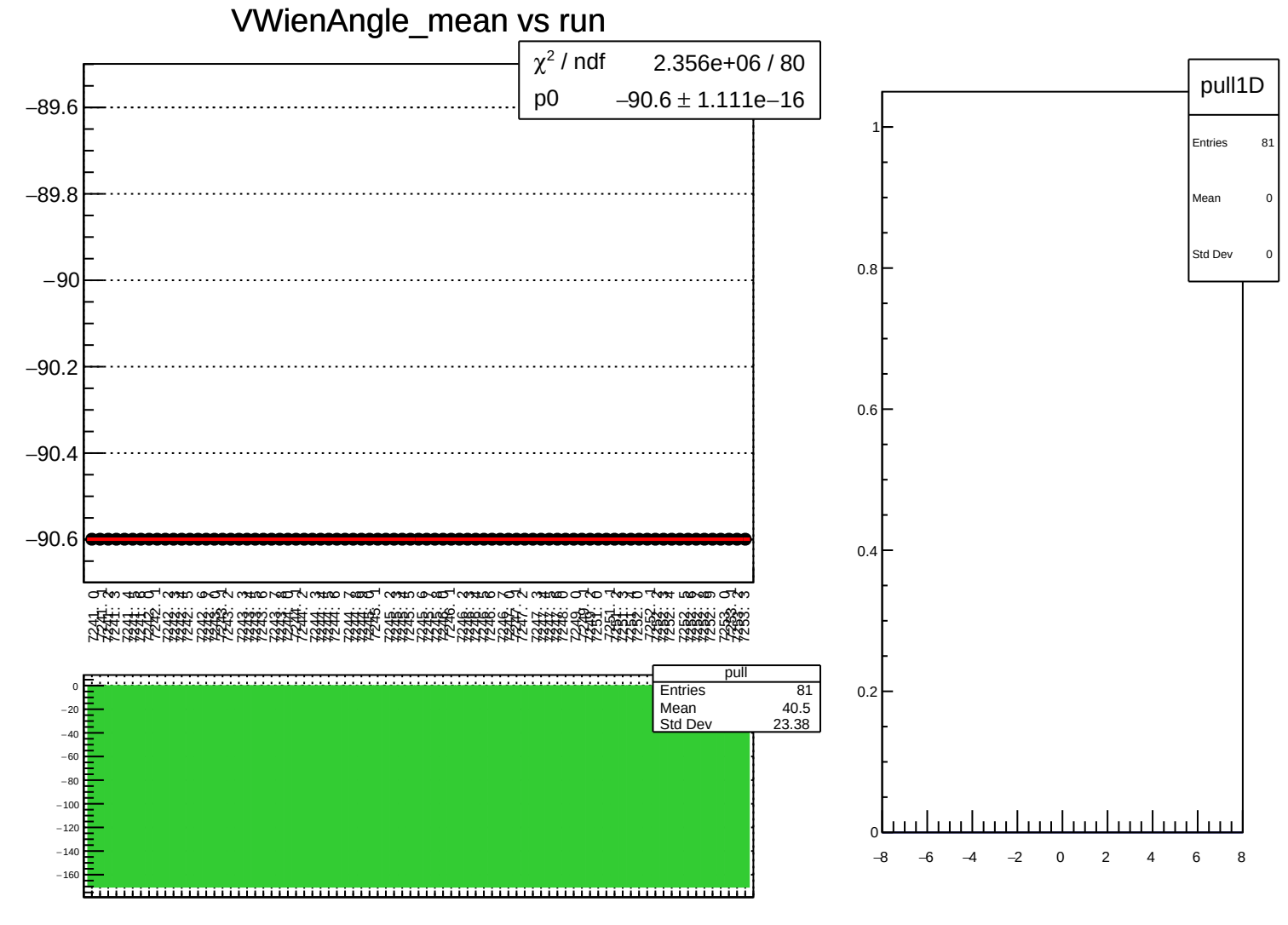

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

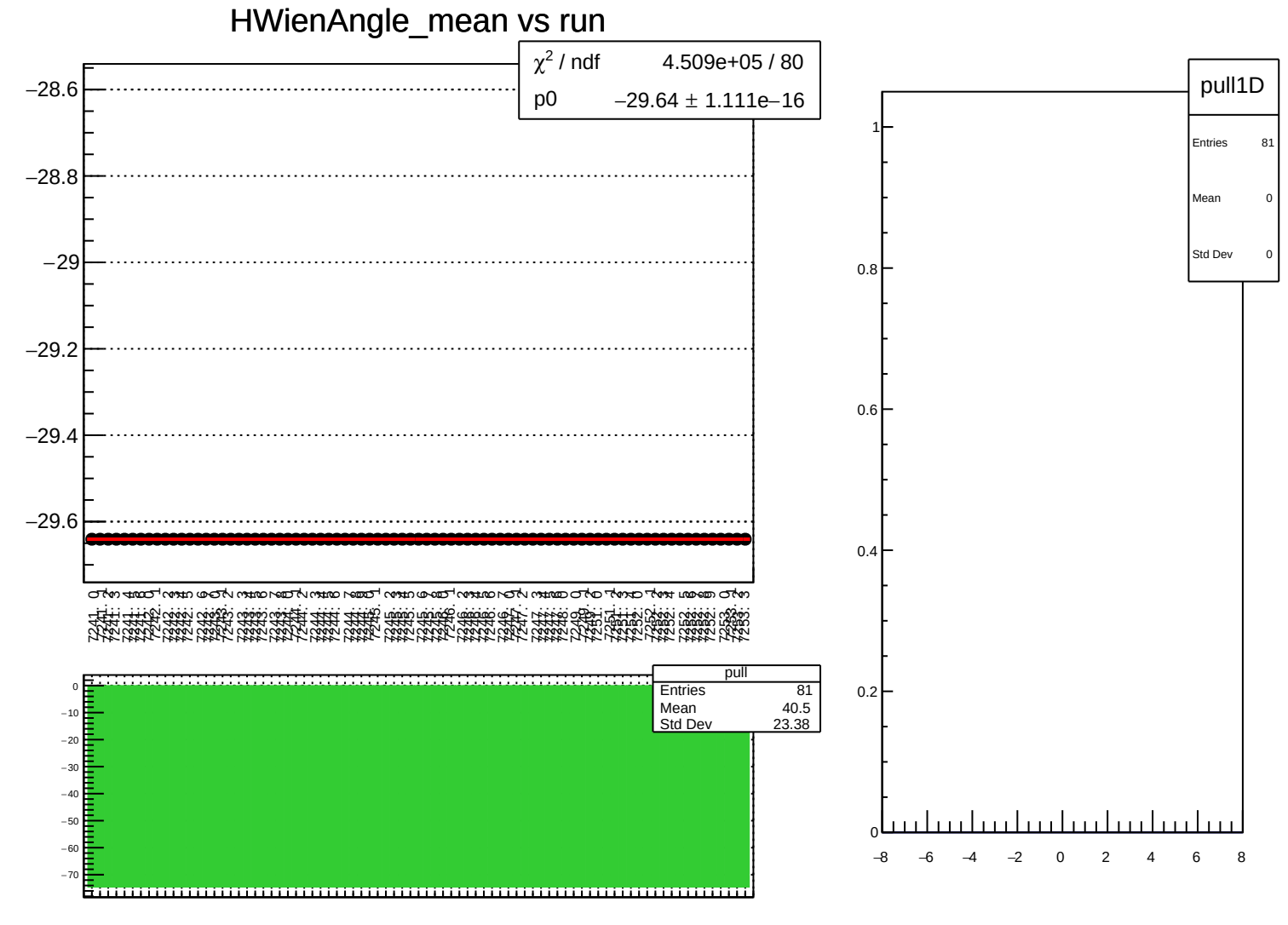

hesDipole_current_mean vs run
χ² / ndf 0.02949 / 80
p0 0.009375 ± 1.111e−16
×10⁻³
9.375
pull
Entries 81
Mean 40.5
Std Dev 23.38

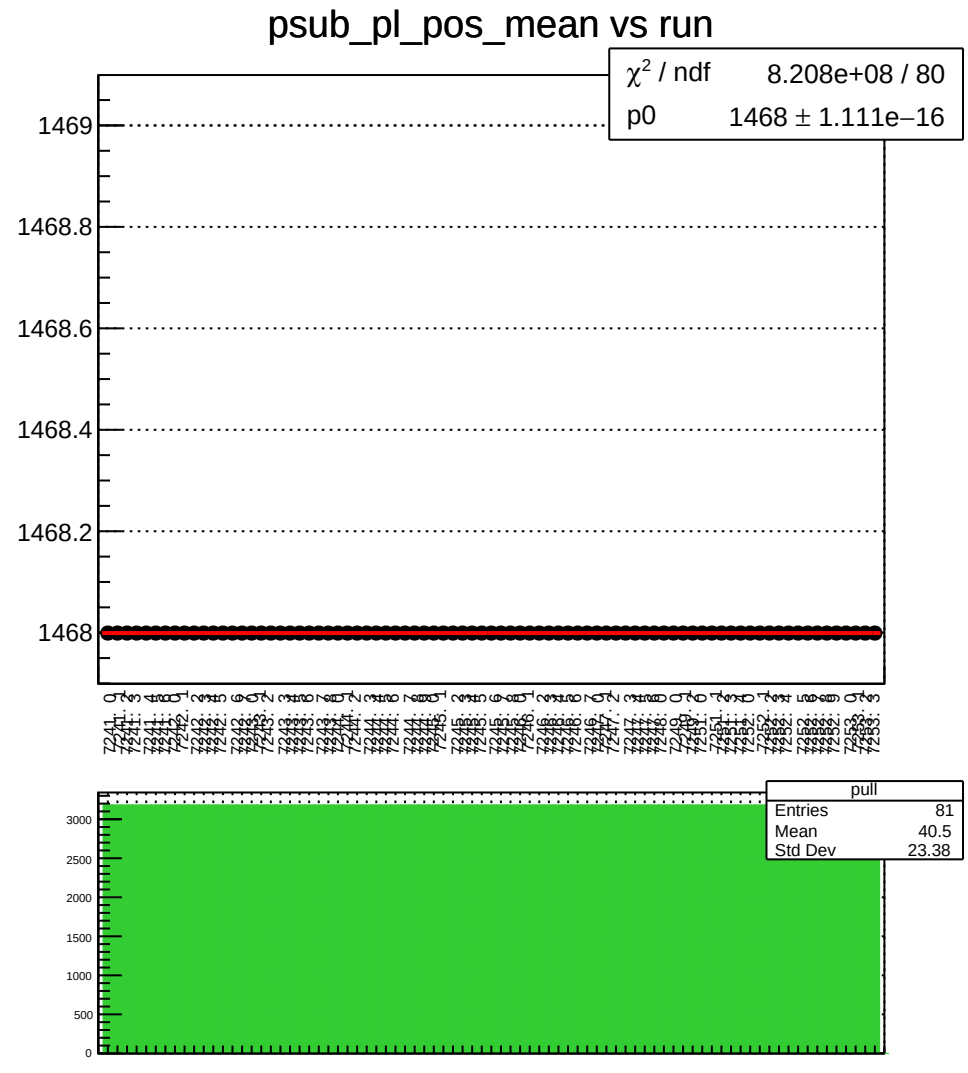

pull1D
Entries 81
Mean 0.01908
Std Dev 6.16e−10

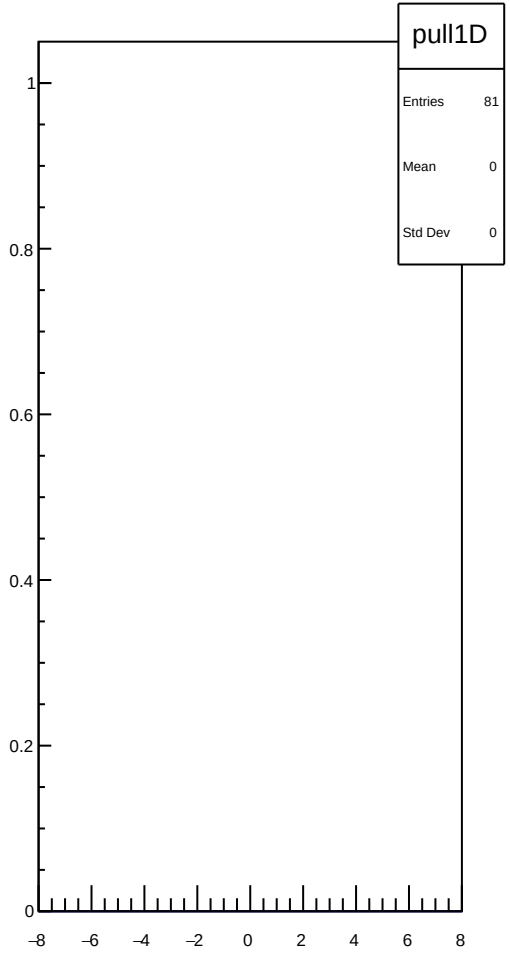

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.02949 / 80
p0 0.009375 ± 1.111e−16
×10⁻³
9.375
pull
Entries 81
Mean 40.5
Std Dev 23.38

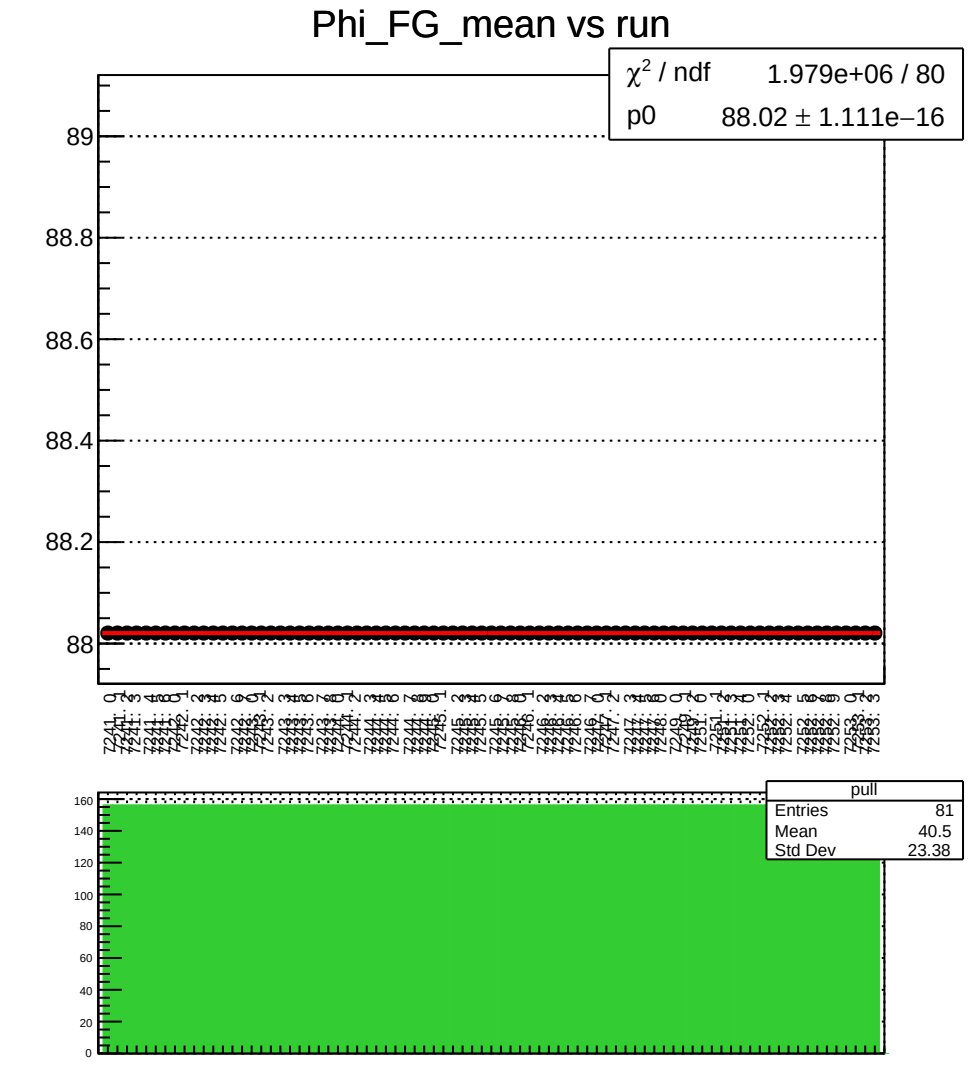

pull1D
Entries 81
Mean 0.01908
Std Dev 6.16e−10

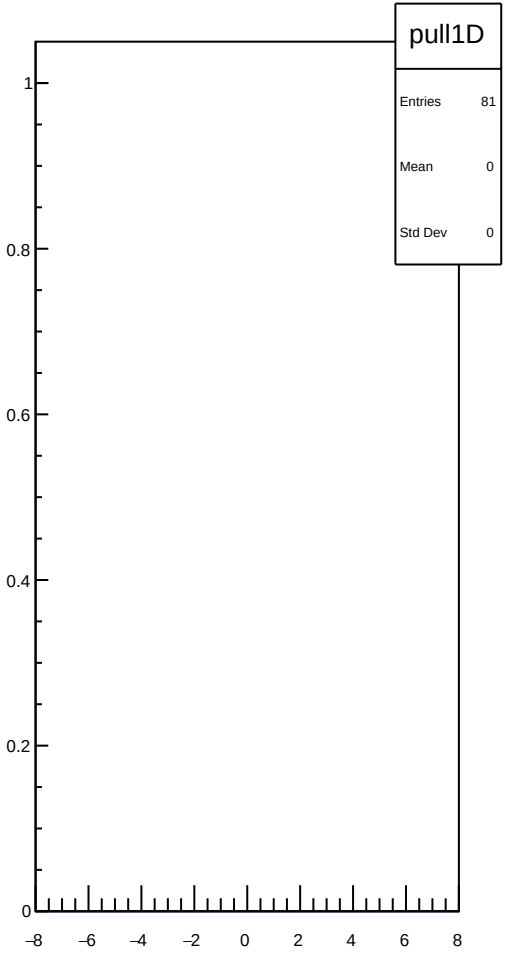

VWienAngle_mean vs run
χ² / ndf 2.356e+06 / 80
p0 −90.6 ± 1.111e−16
−89.6
−89.8
−90
−90.2
−90.4
−90.6
pull
Entries 81
Mean 40.5
Std Dev 23.38
0
−20
−40
−60
−80
−100
−120
−140
−160
pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

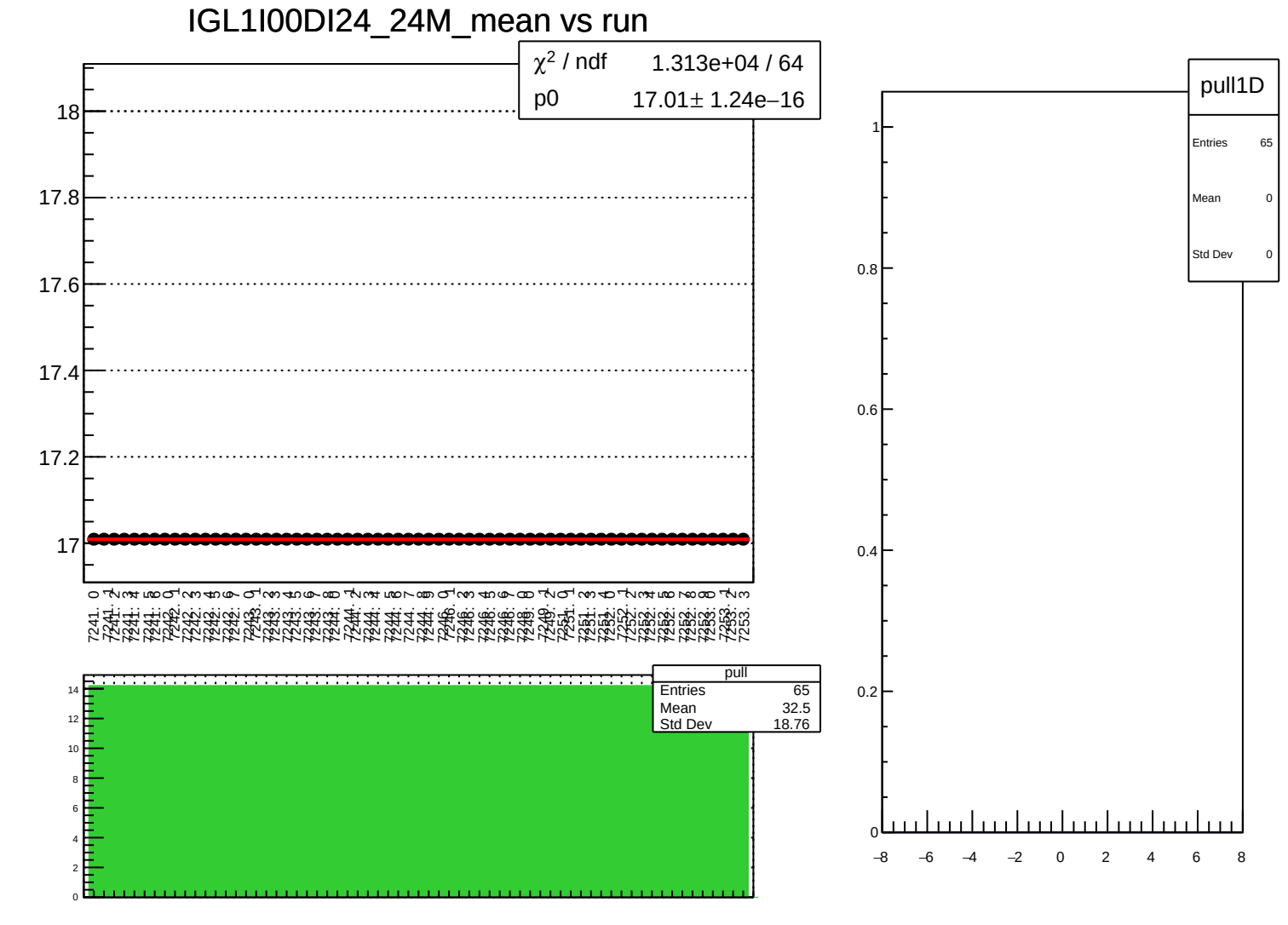

HWienAngle_mean vs run
χ² / ndf 4.509e+05 / 80
p0 −29.64 ± 1.111e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 81
Mean 40.5
Std Dev 23.38
0
−10
−20
−30
−40
−50
−60
−70
pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

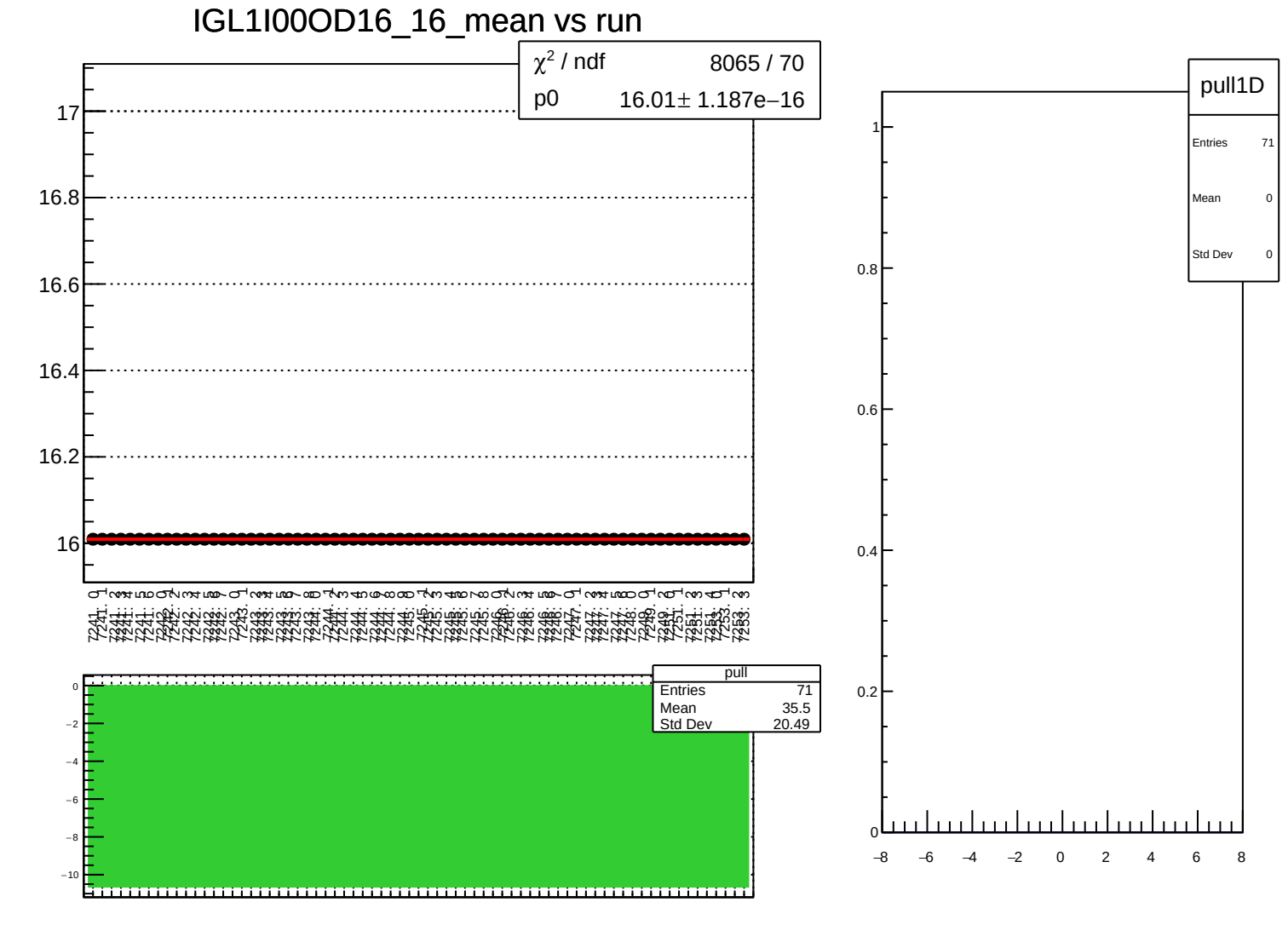

psub_pl_pos_mean vs run
χ² / ndf 8.208e+08 / 80
p0 1468 ± 1.111e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
pull
Entries 81
Mean 40.5
Std Dev 23.38
3000
2500
2000
1500
1000
500
0

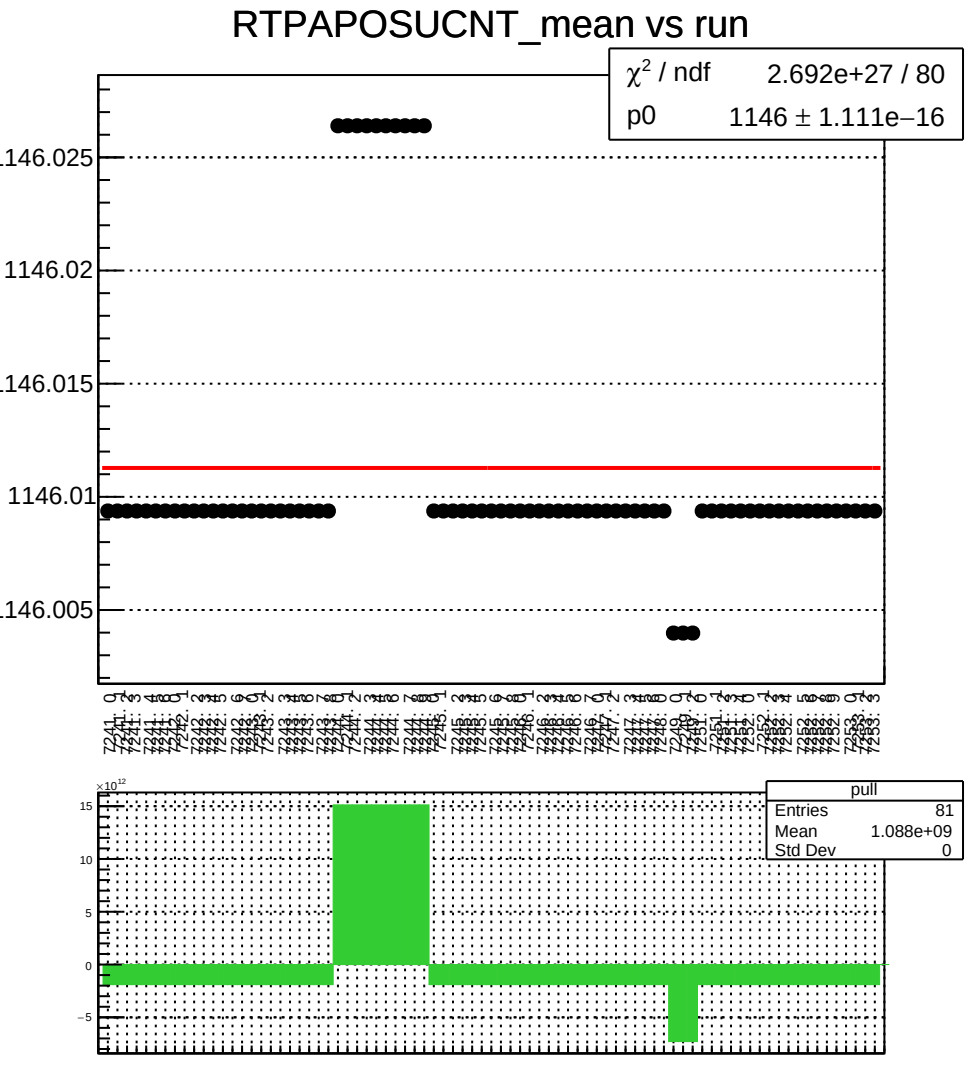

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

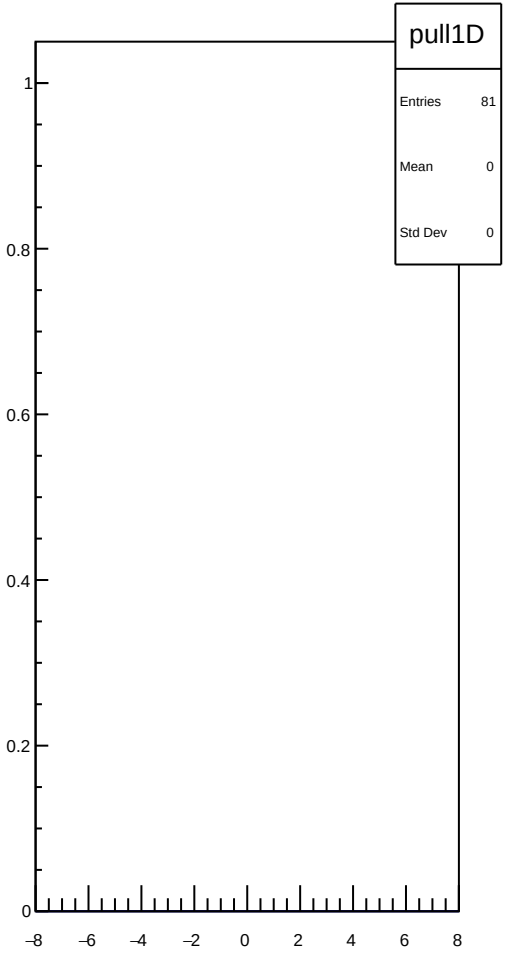

Phi_FG_mean vs run
χ² / ndf 1.979e+06 / 80
p0 88.02 ± 1.111e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 81
Mean 40.5
Std Dev 23.38
160
140
120
100
80
60
40
20
0

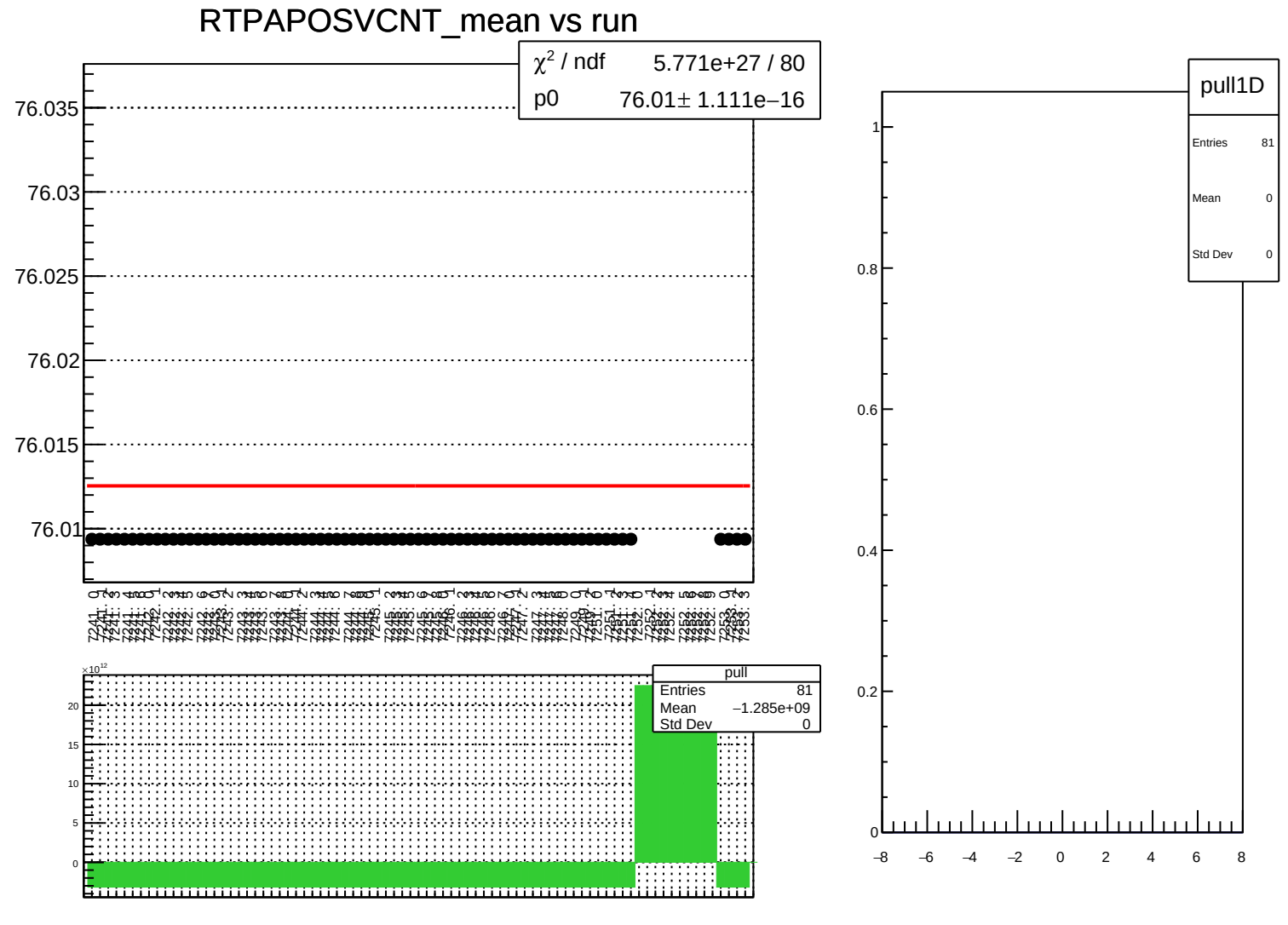

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

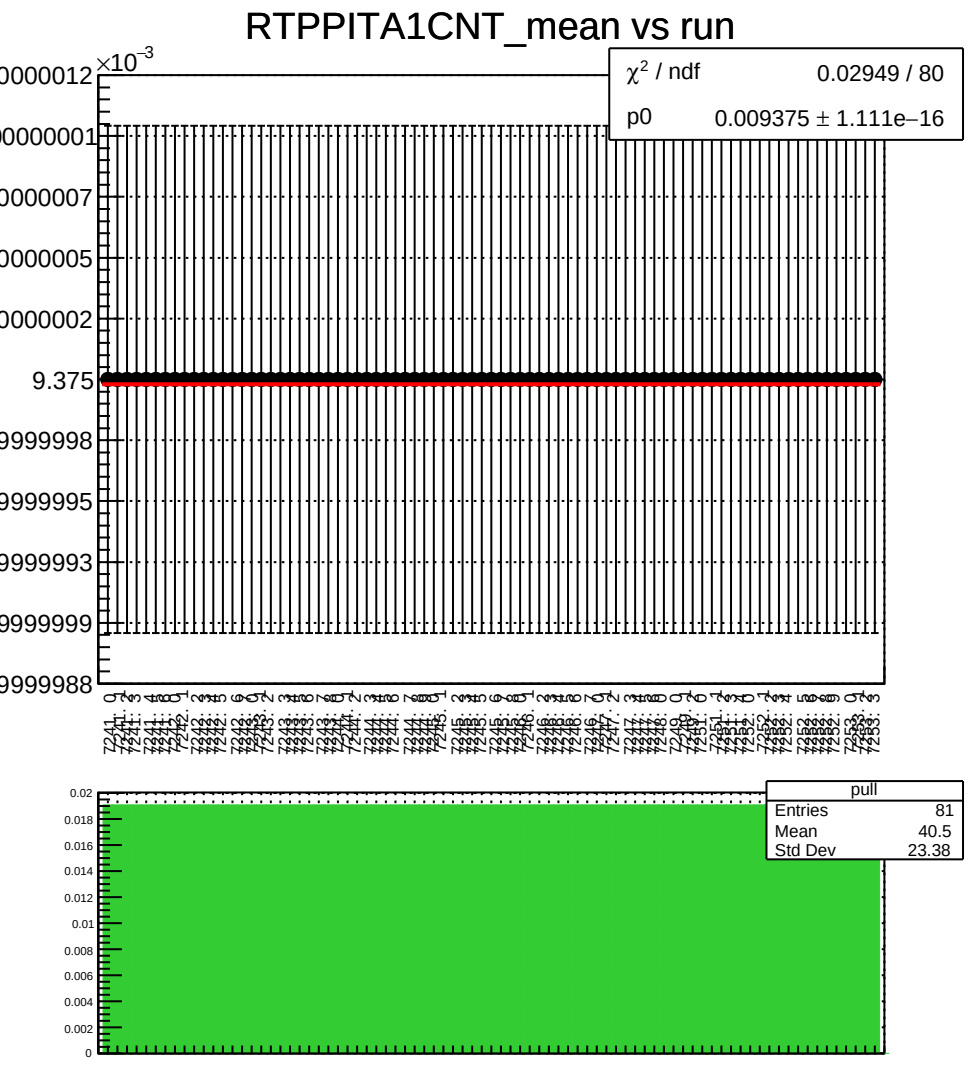

IGL1I00DI24_24M_mean vs run
χ² / ndf 1.313e+04 / 64
p0 17.01± 1.24e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 65
Mean 32.5
Std Dev 18.76
14
12
10
8
6
4
2
0
pull1D
Entries 65
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

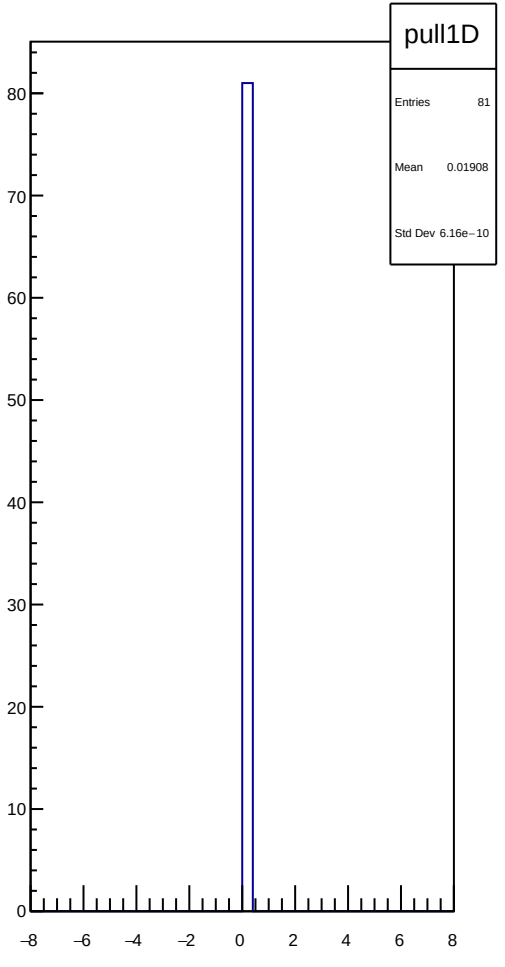

IGL1I00OD16_16_mean vs run
χ² / ndf 8065 / 70
p0 16.01± 1.187e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 71
Mean 35.5
Std Dev 20.49
0
−2
−4
−6
−8
−10
pull1D
Entries 71
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

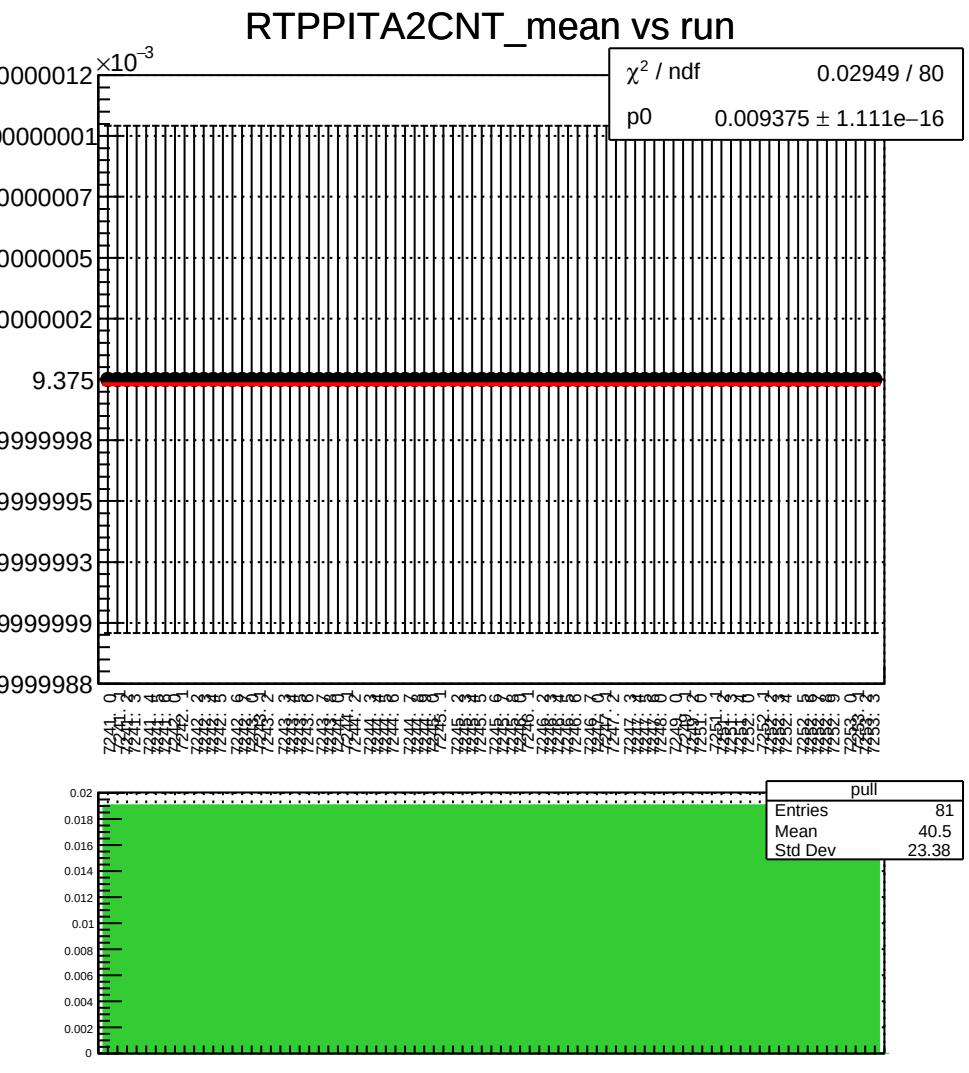

RTPAPOSUCNT_mean vs run
χ² / ndf 2.692e+27 / 80
p0 1146 ± 1.111e−16
1146.025
1146.02
1146.015
1146.01
1146.005
pull
Entries 81
Mean 1.088e+09
Std Dev 0
×10¹²
15
10
5
0
−5

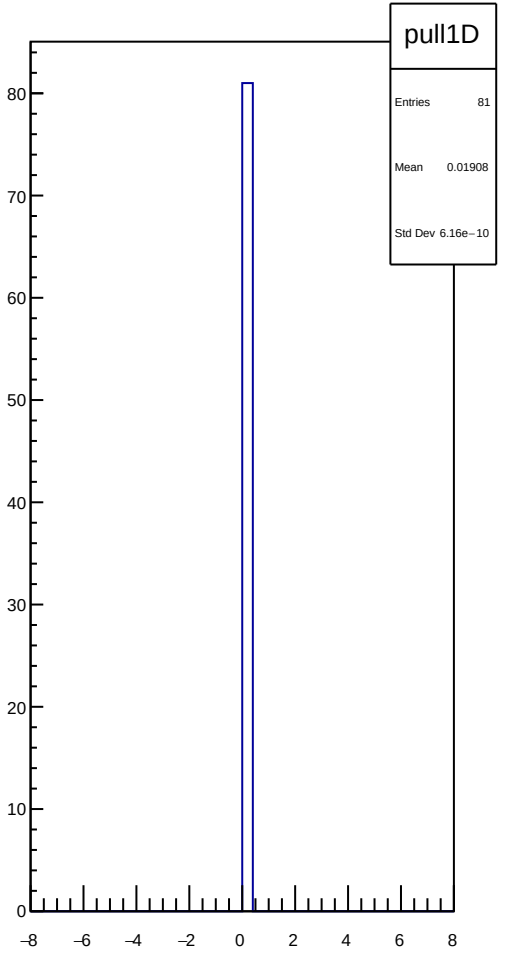

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSVCNT_mean vs run
χ² / ndf 5.771e+27 / 80
p0 76.01± 1.111e−16
76.035
76.03
76.025
76.02
76.015
76.01
pull
Entries 81
Mean −1.285e+09
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


RTPPITA1CNT_mean vs run
χ² / ndf 0.02949 / 80
p0 0.009375 ± 1.111e−16
×10⁻³
9.375
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
×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