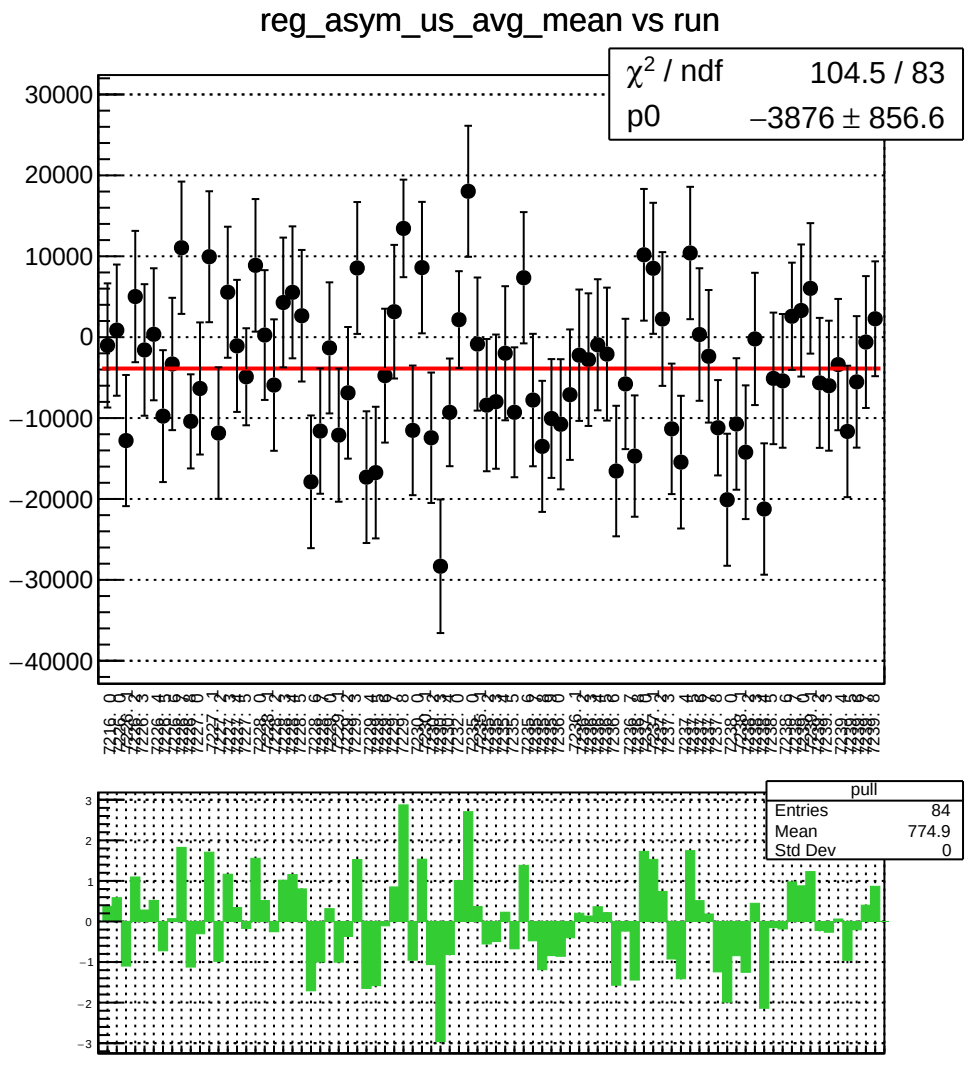
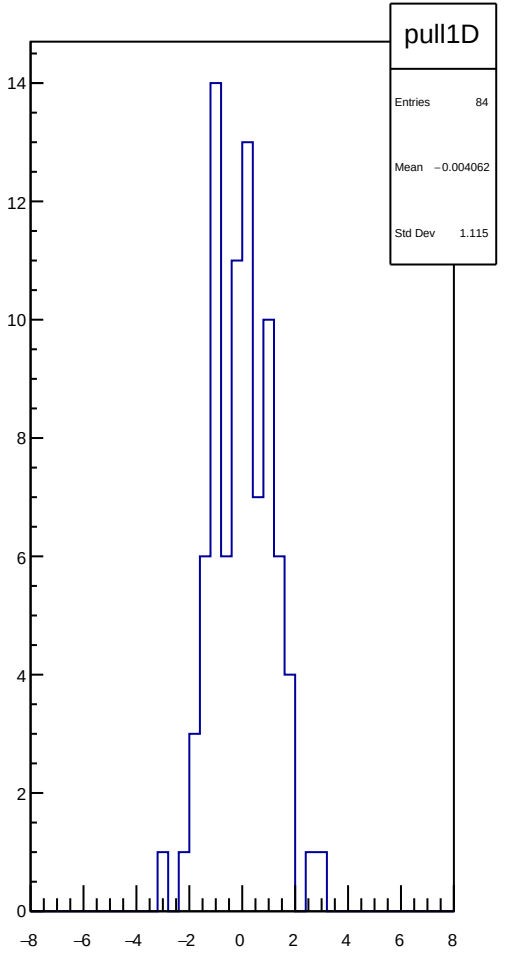
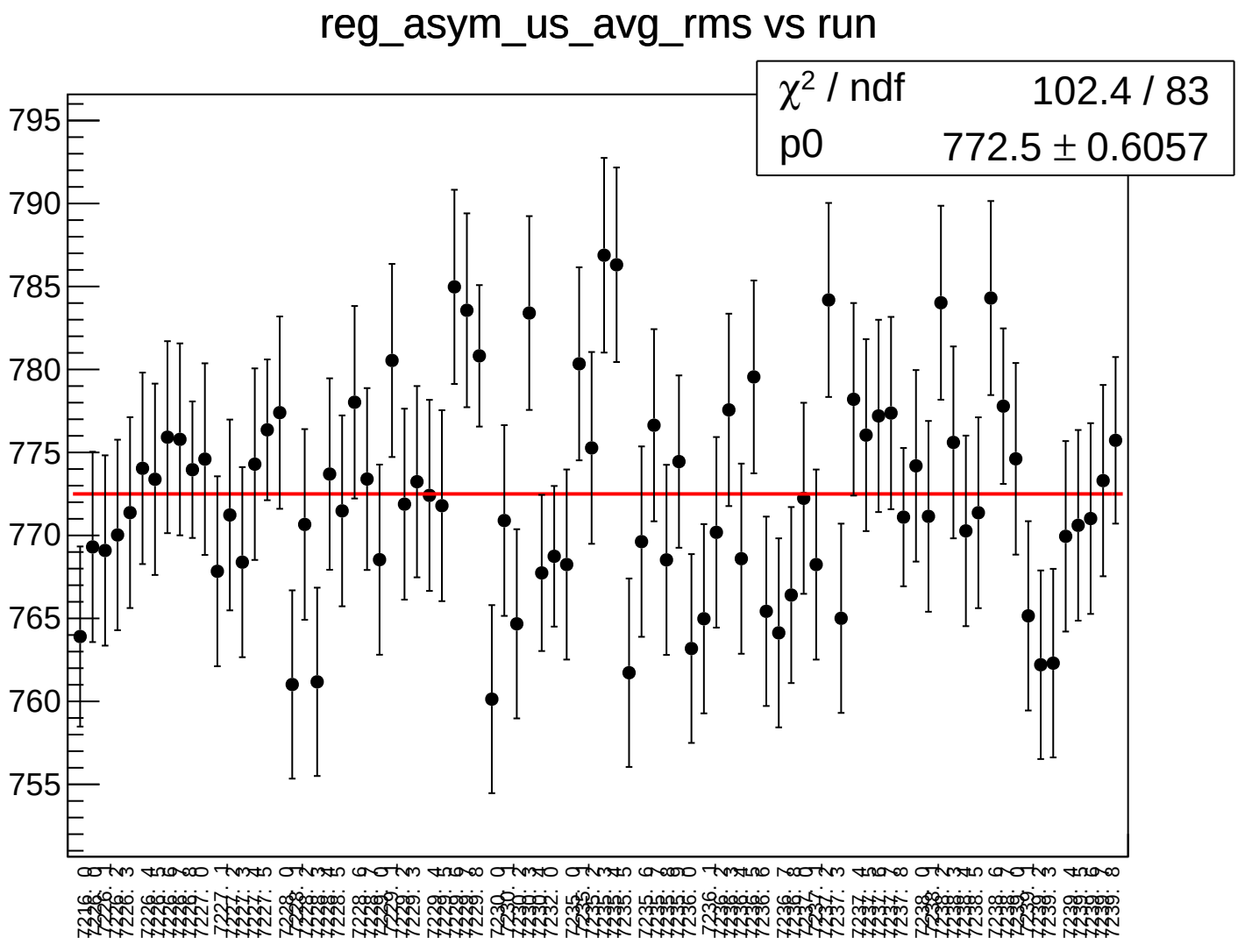
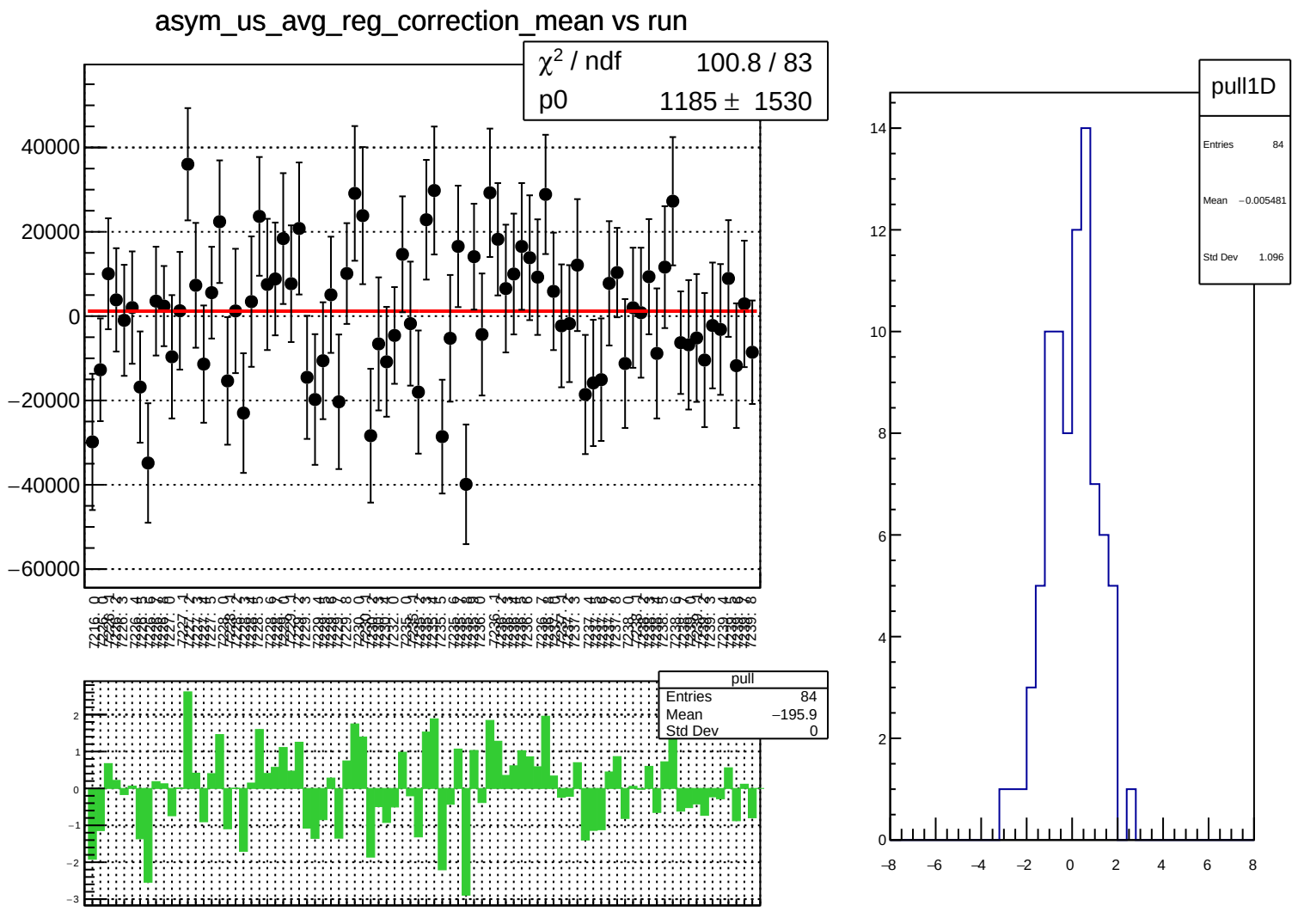
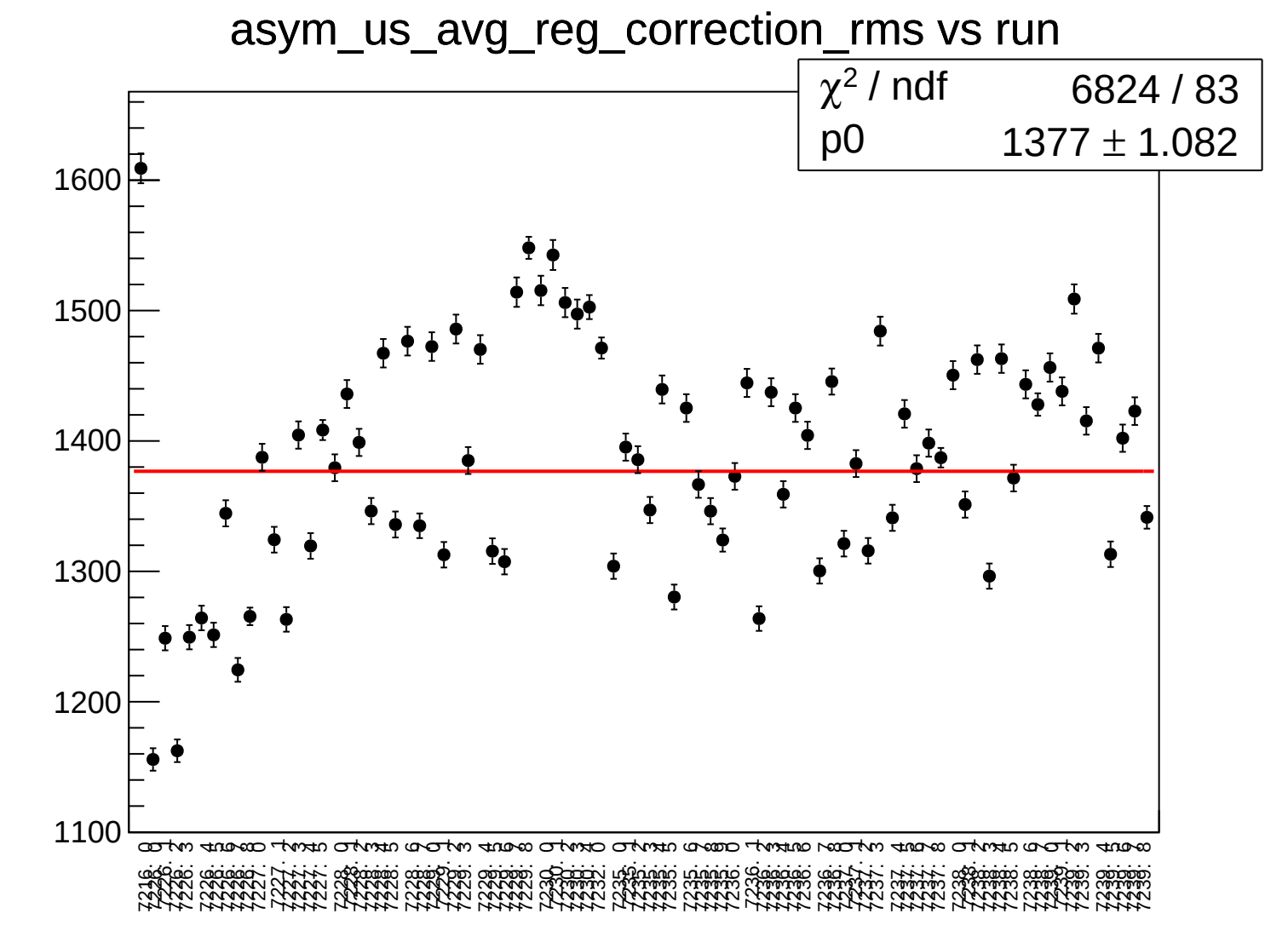
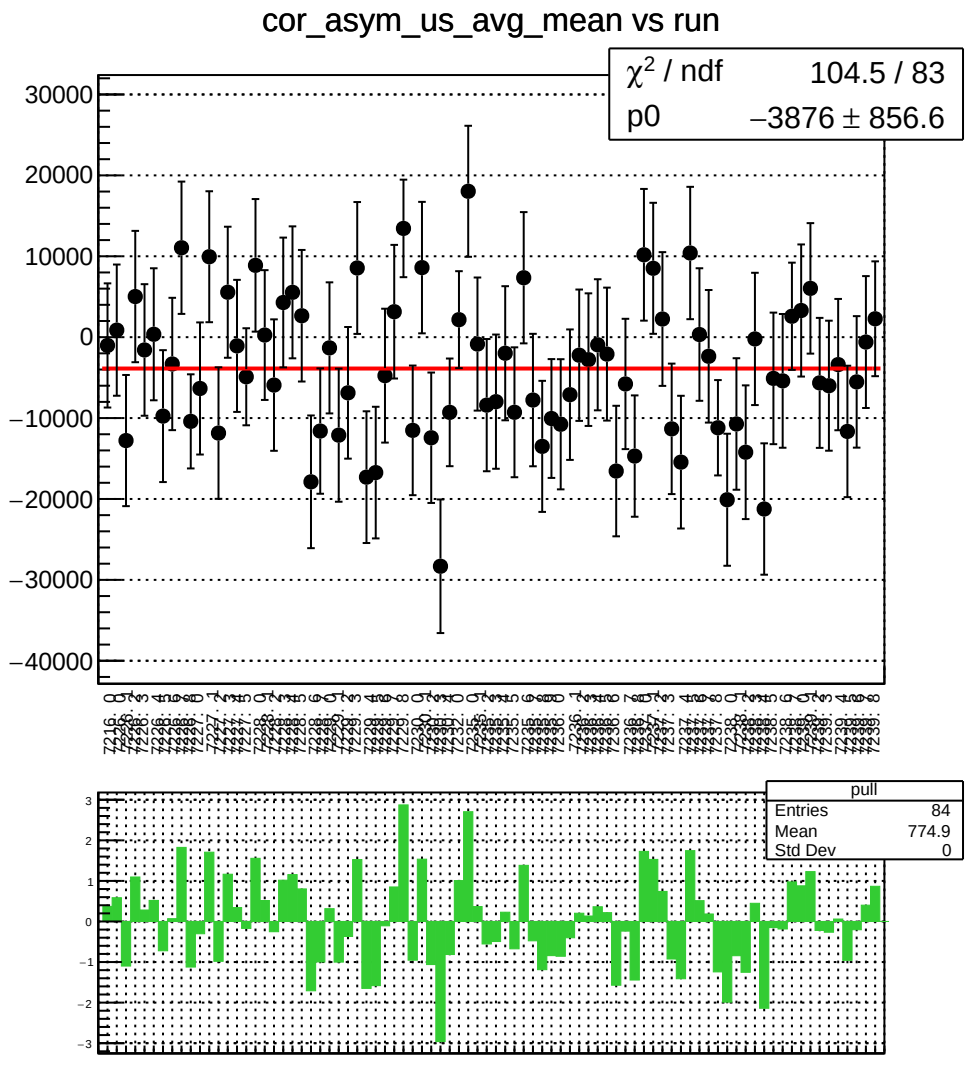

reg_asym_us_avg_mean vs run
χ² / ndf 104.5 / 83
p0 −3876 ± 856.6
pull
Entries 84
Mean 774.9
Std Dev 0

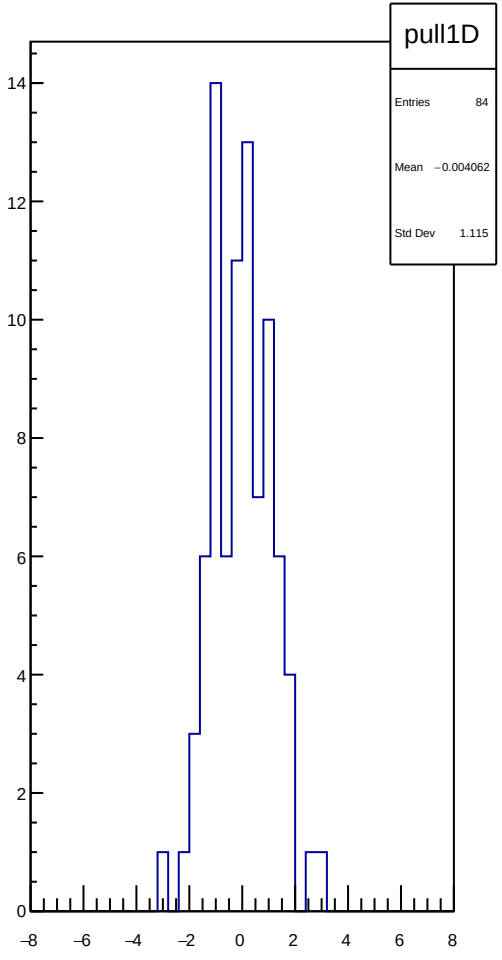

pull1D
Entries 84
Mean −0.004062
Std Dev 1.115

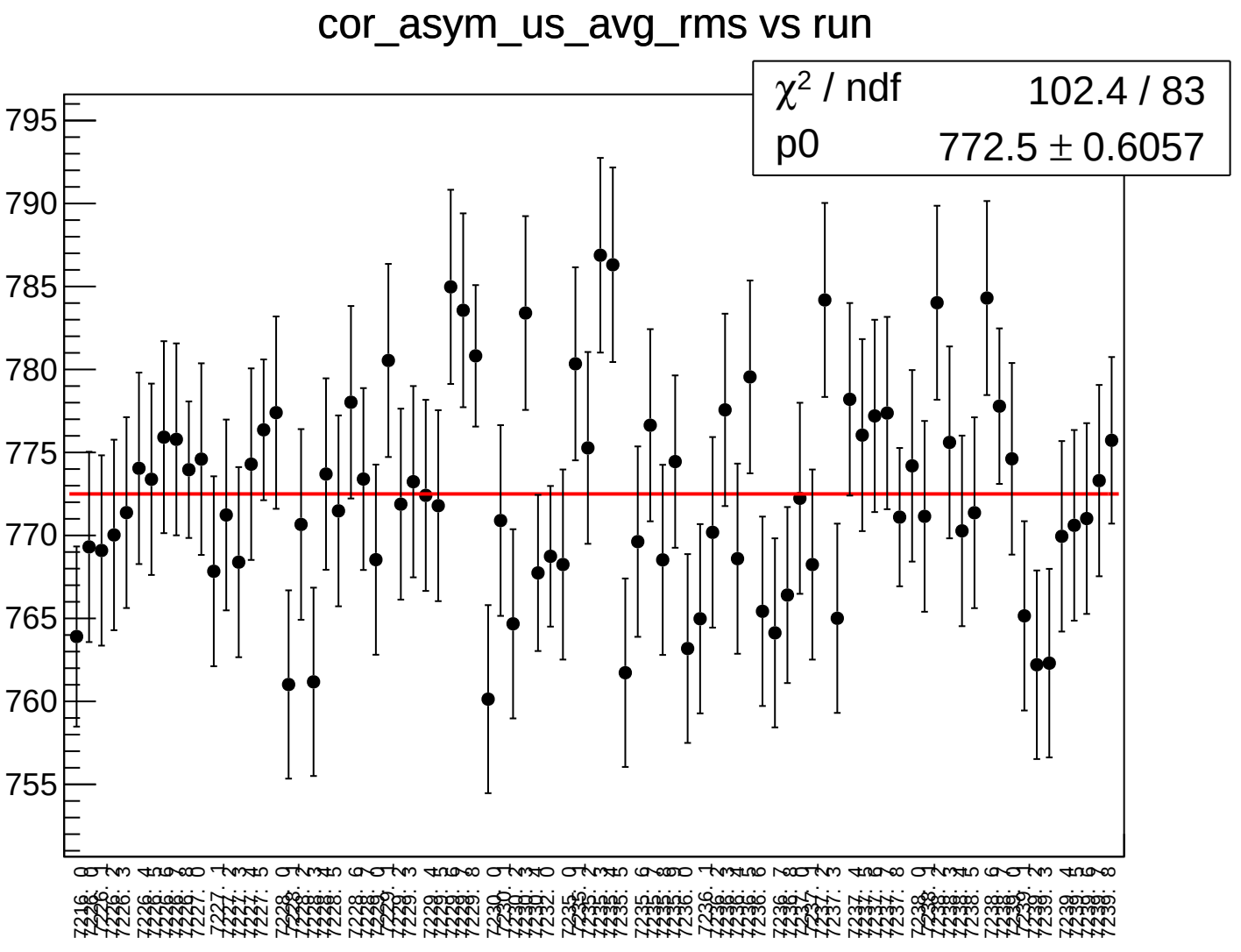

reg_asym_us_avg_rms vs run
χ² / ndf 102.4 / 83
p0 772.5 ± 0.6057
795
790
785
780
775
770
765
760
755

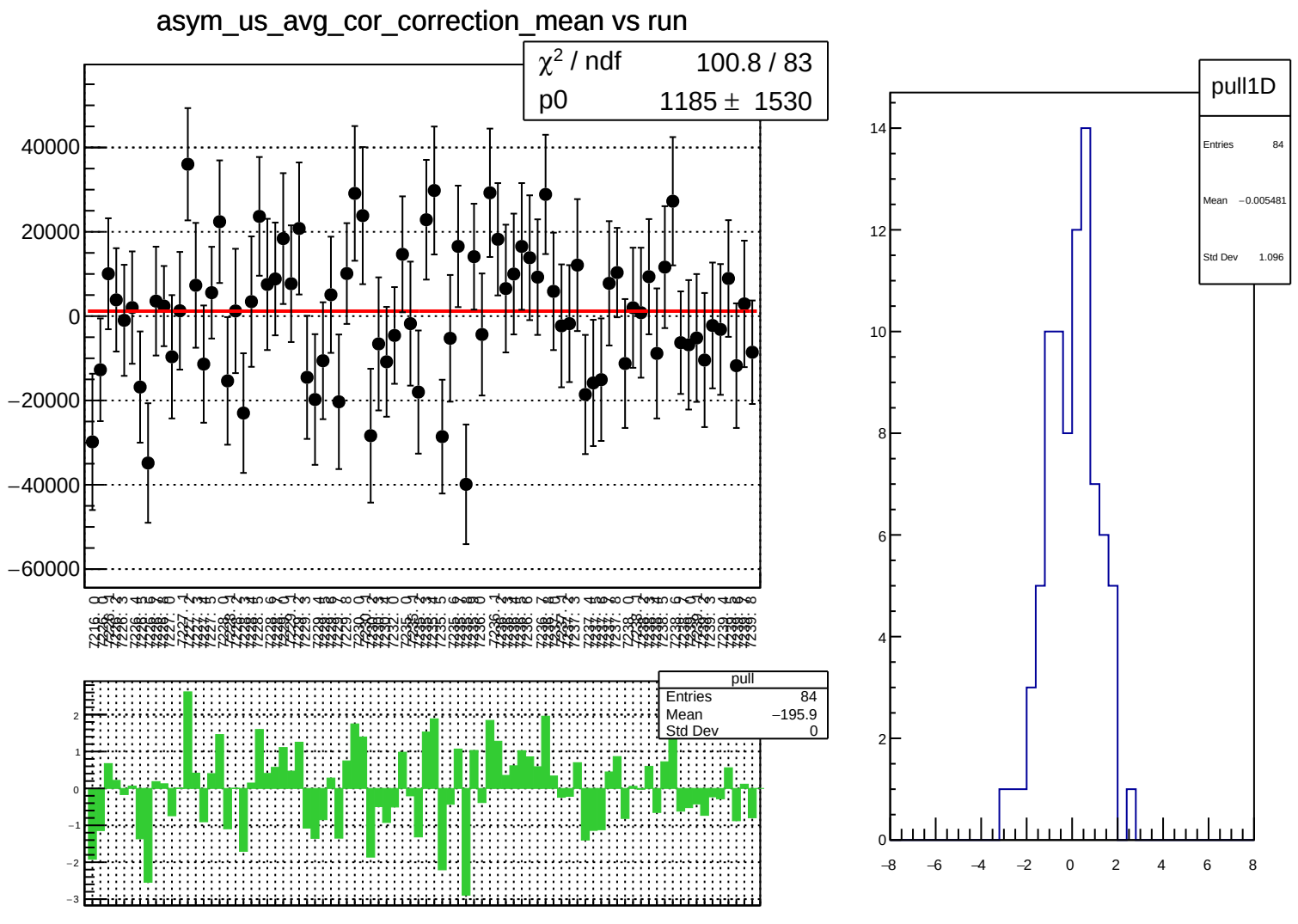

asym_us_avg_reg_correction_mean vs run
χ² / ndf 100.8 / 83
p0 1185 ± 1530
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −195.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean −0.005481
Std Dev 1.096
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

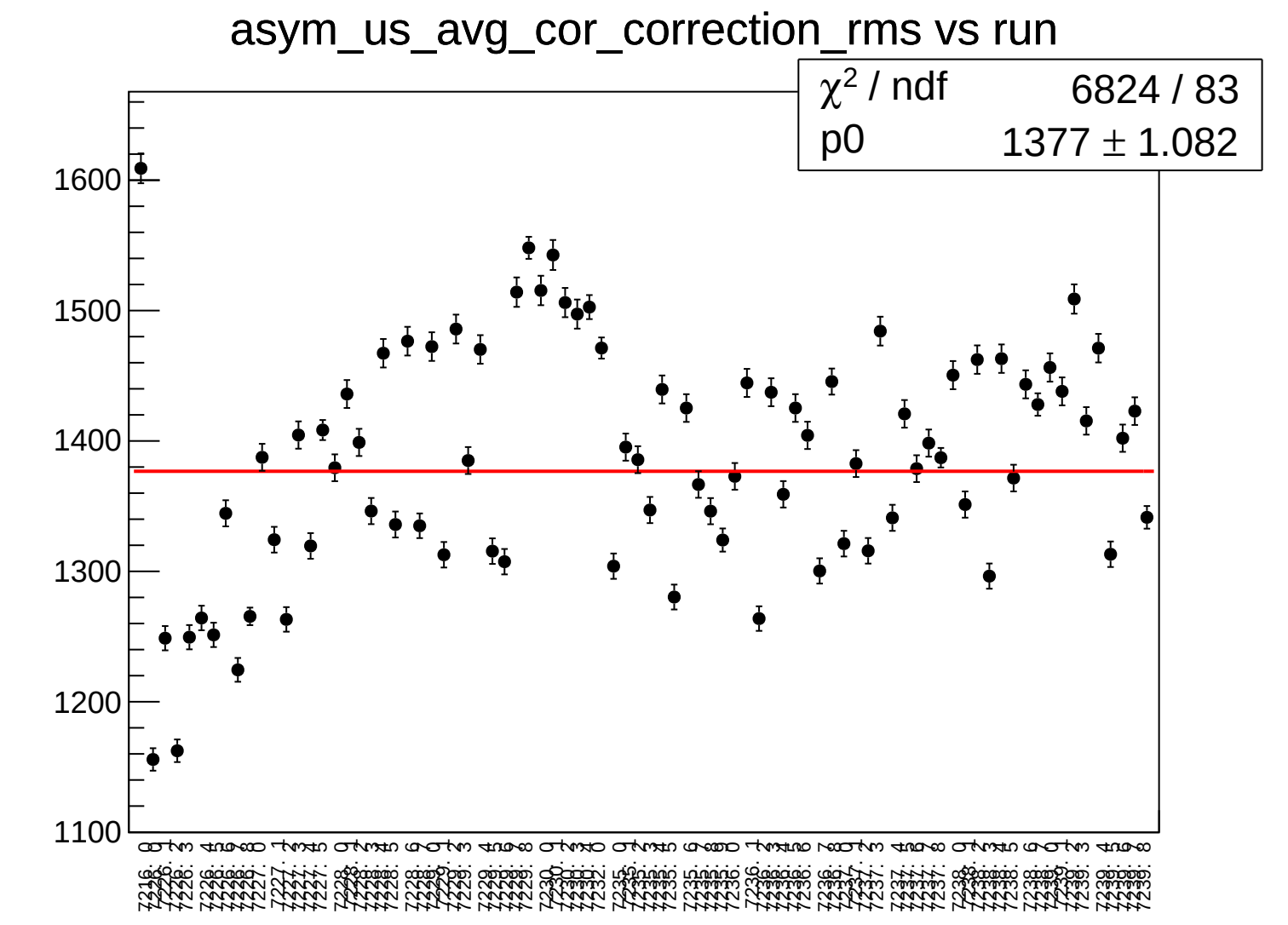

asym_us_avg_reg_correction_rms vs run
χ² / ndf 6824 / 83
p0 1377 ± 1.082
1600
1500
1400
1300
1200
1100

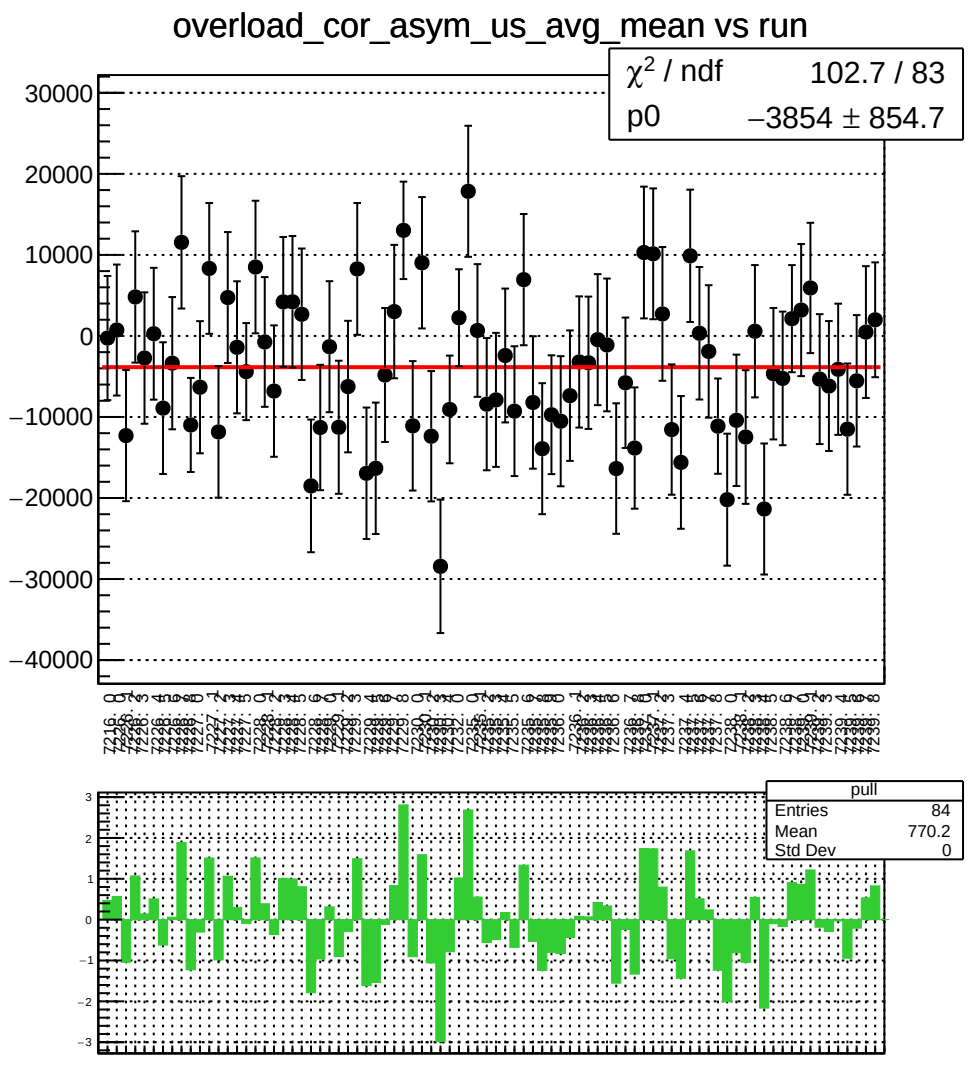

cor_asym_us_avg_mean vs run
χ² / ndf 104.5 / 83
p0 −3876 ± 856.6
pull
Entries 84
Mean 774.9
Std Dev 0

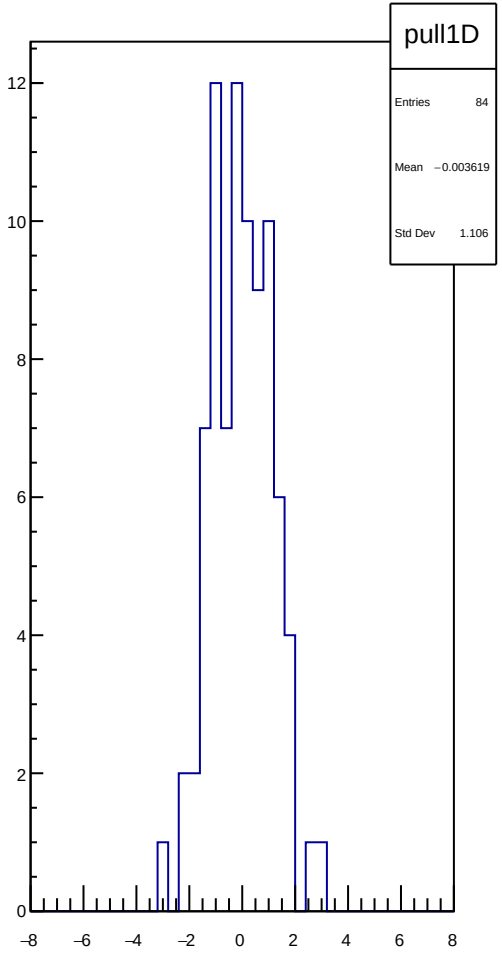

pull1D
Entries 84
Mean −0.004062
Std Dev 1.115

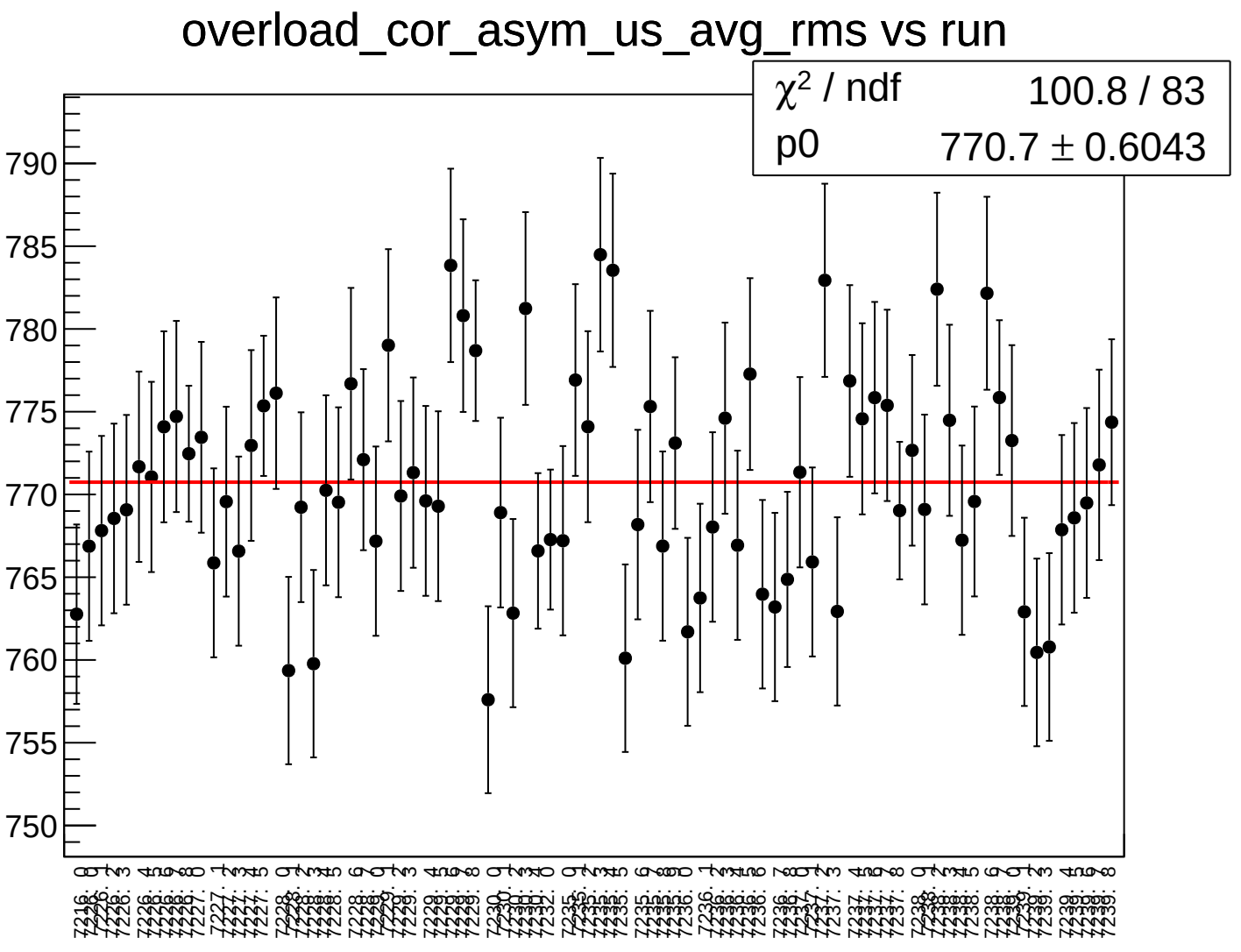

cor_asym_us_avg_rms vs run
χ² / ndf 102.4 / 83
p0 772.5 ± 0.6057
795
790
785
780
775
770
765
760
755

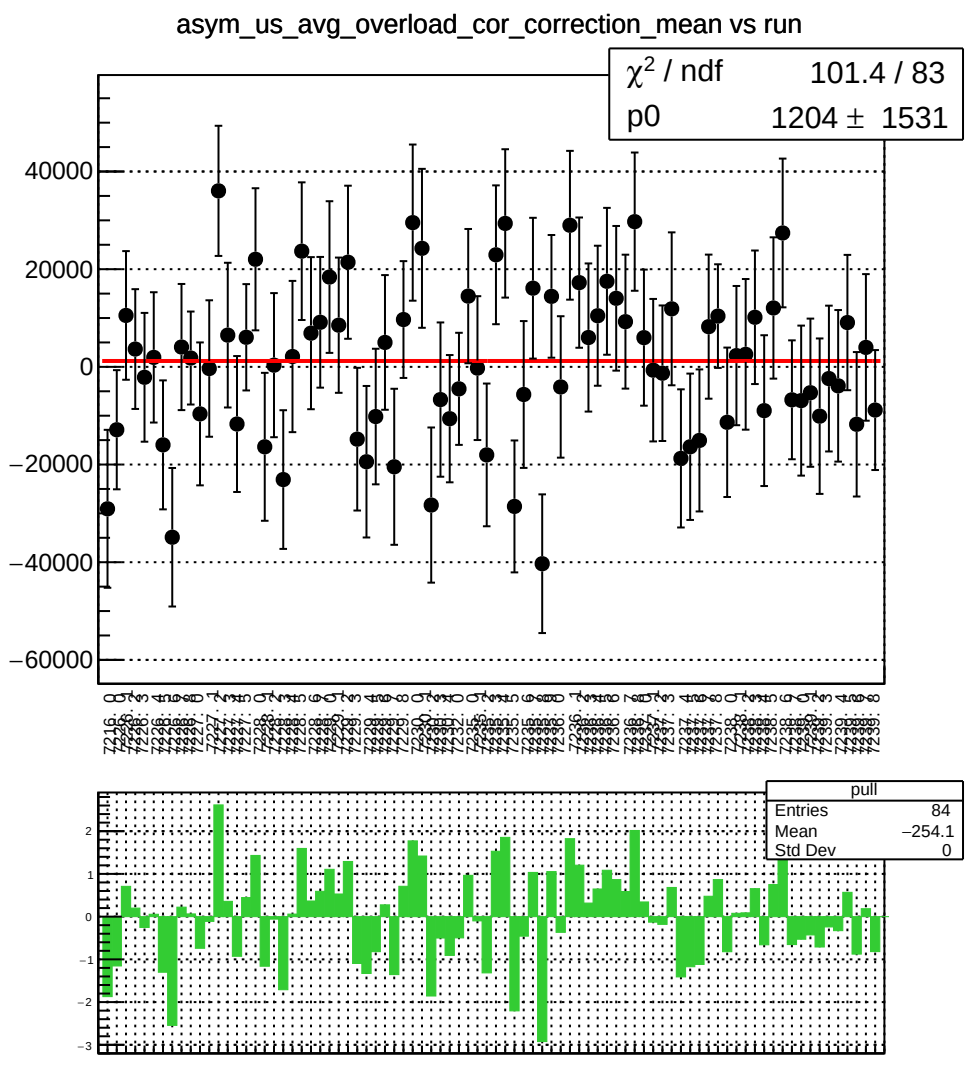

asym_us_avg_cor_correction_mean vs run
χ² / ndf 100.8 / 83
p0 1185 ± 1530
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −195.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean −0.005481
Std Dev 1.096
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

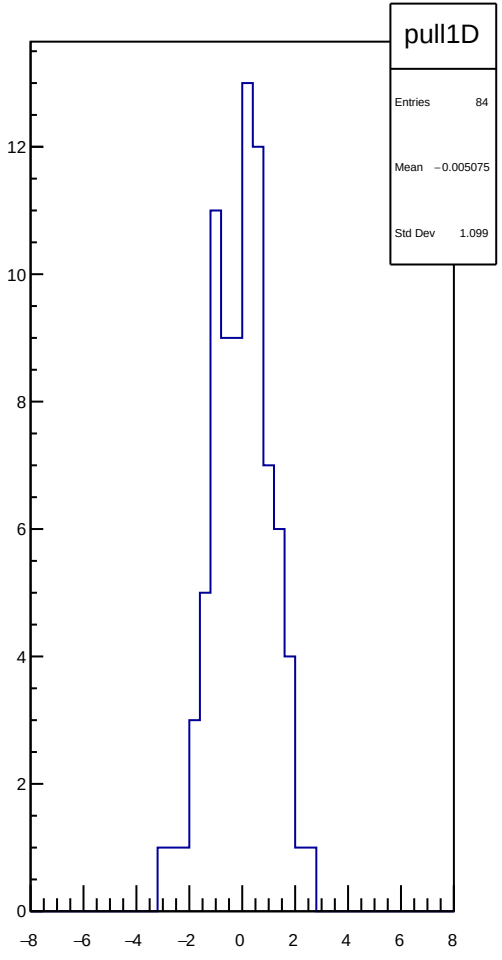

asym_us_avg_cor_correction_rms vs run
χ² / ndf 6824 / 83
p0 1377 ± 1.082
1600
1500
1400
1300
1200
1100


overload_cor_asym_us_avg_mean vs run
χ² / ndf 102.7 / 83
p0 −3854 ± 854.7
pull
Entries 84
Mean 770.2
Std Dev 0


pull1D
Entries 84
Mean −0.003619
Std Dev 1.106


overload_cor_asym_us_avg_rms vs run
χ² / ndf 100.8 / 83
p0 770.7 ± 0.6043
790
785
780
775
770
765
760
755
750


asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 101.4 / 83
p0 1204 ± 1531
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −254.1
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 84
Mean −0.005075
Std Dev 1.099
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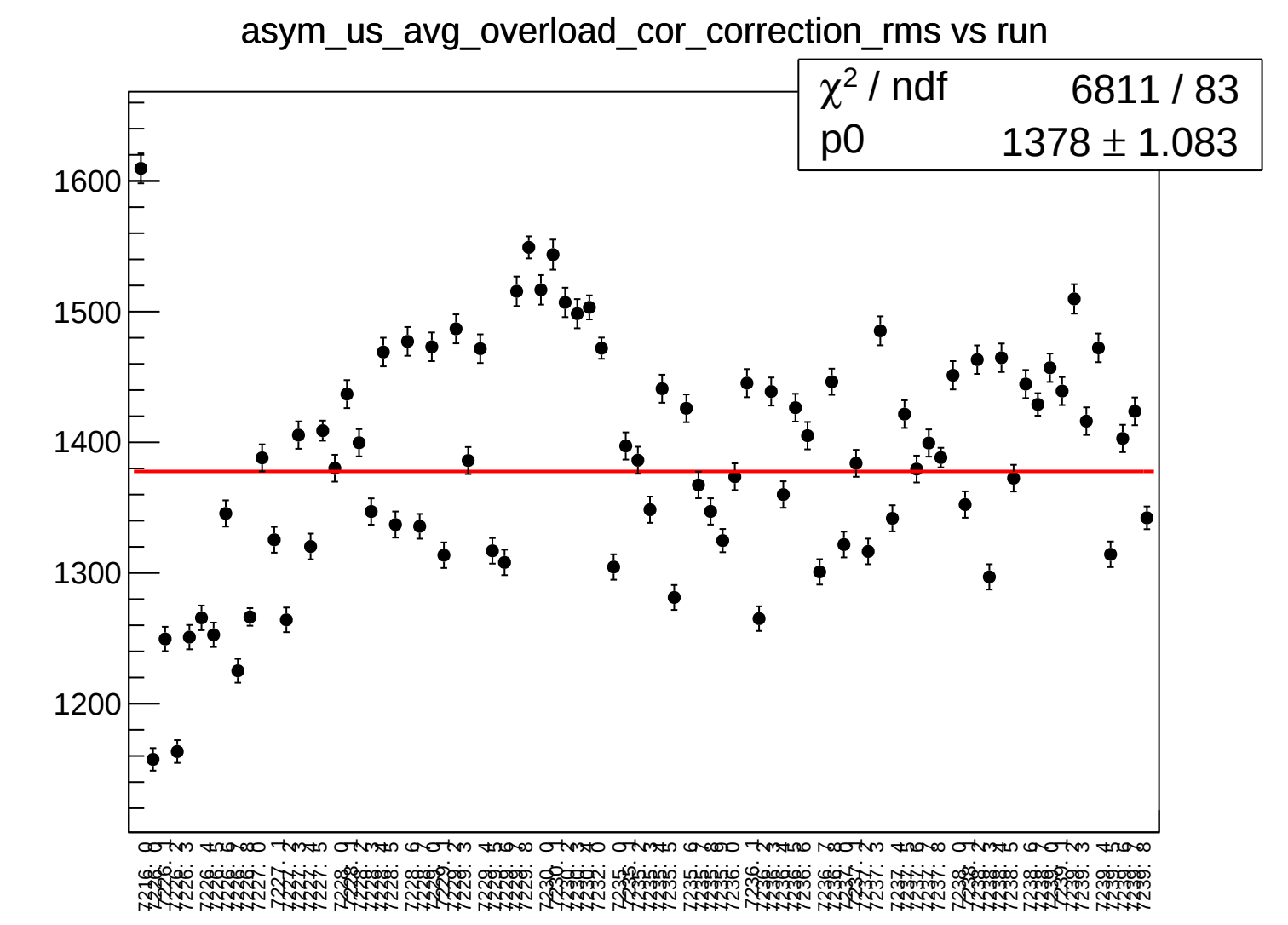
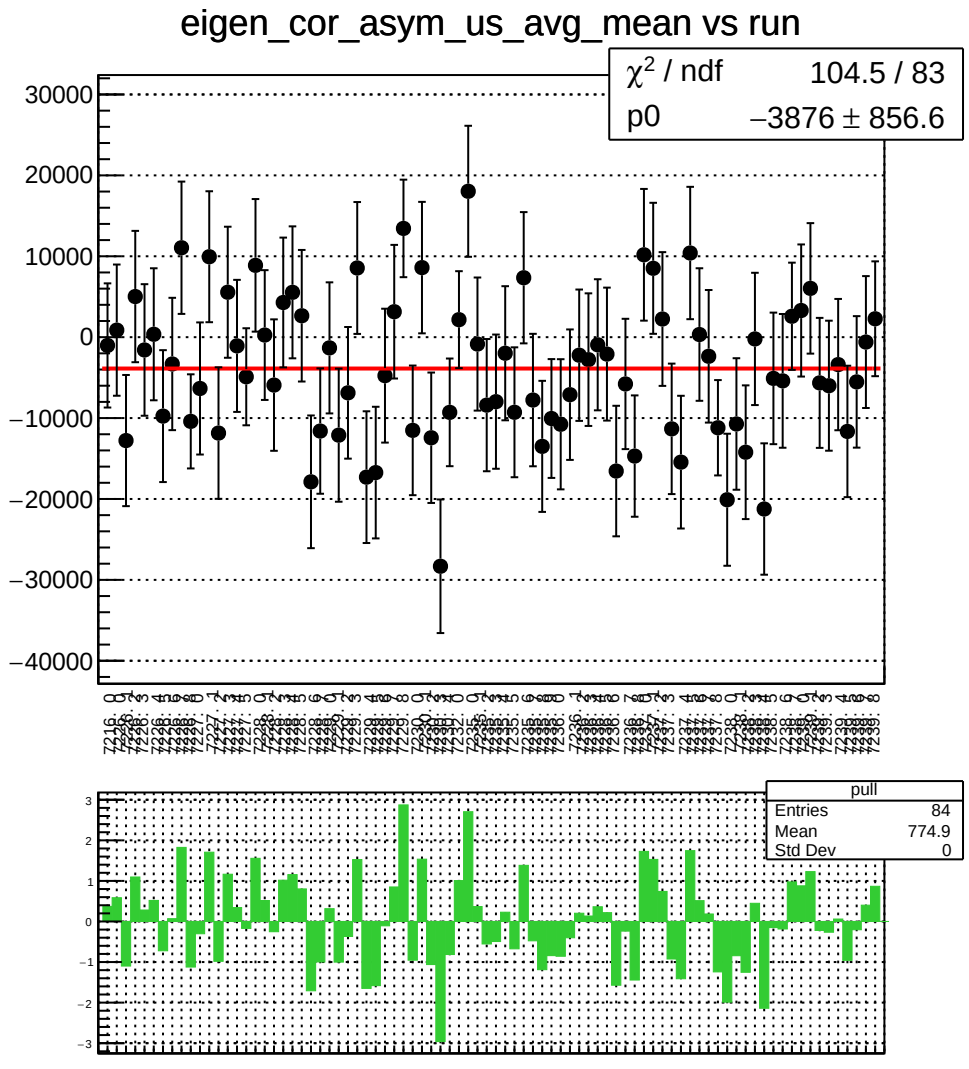
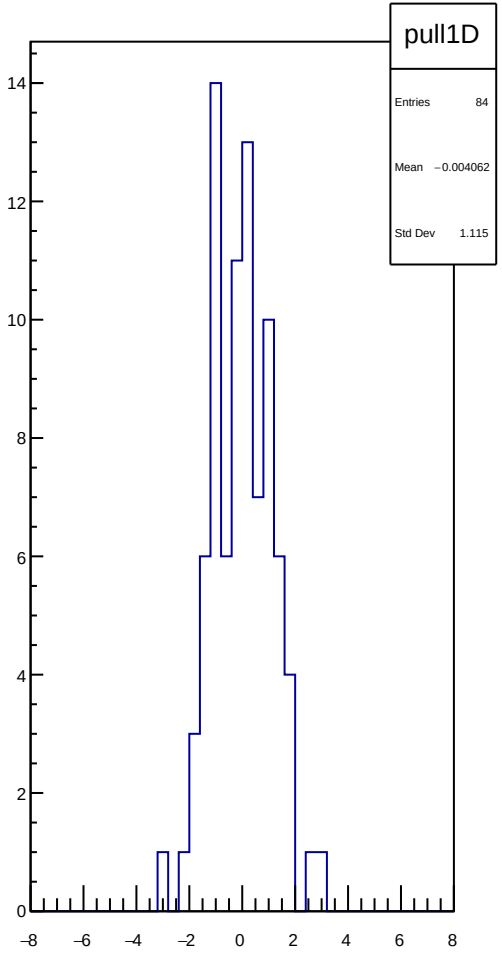
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_overload_cor_correction_rms vs run
χ^2 / ndf 6811 / 83
p0 1378 ± 1.083
1600
1500
1400
1300
1200


eigen_cor_asym_us_avg_mean vs run
χ² / ndf 104.5 / 83
p0 −3876 ± 856.6
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 84
Mean 774.9
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 84
Mean −0.004062
Std Dev 1.115
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2
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−4
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2
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6
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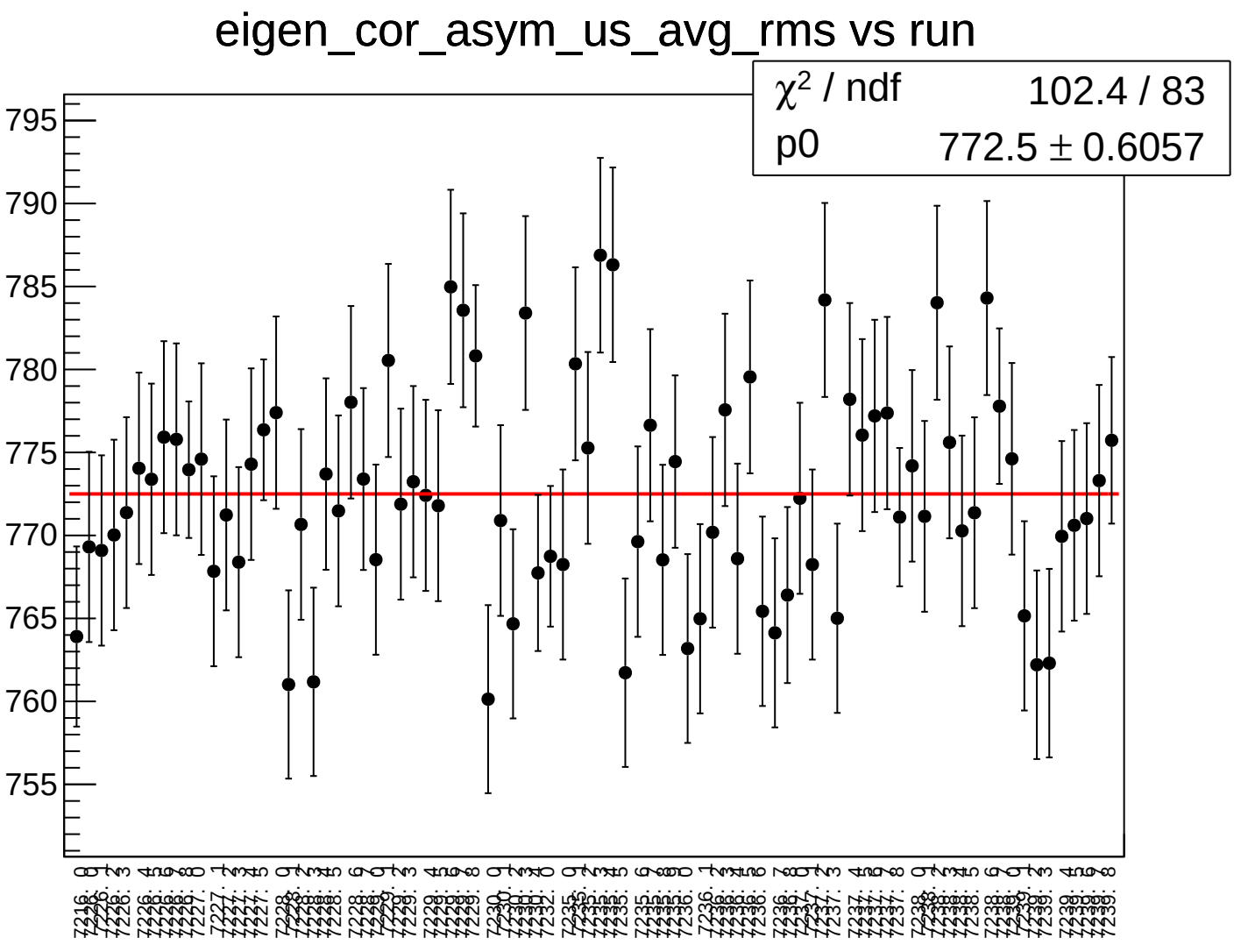
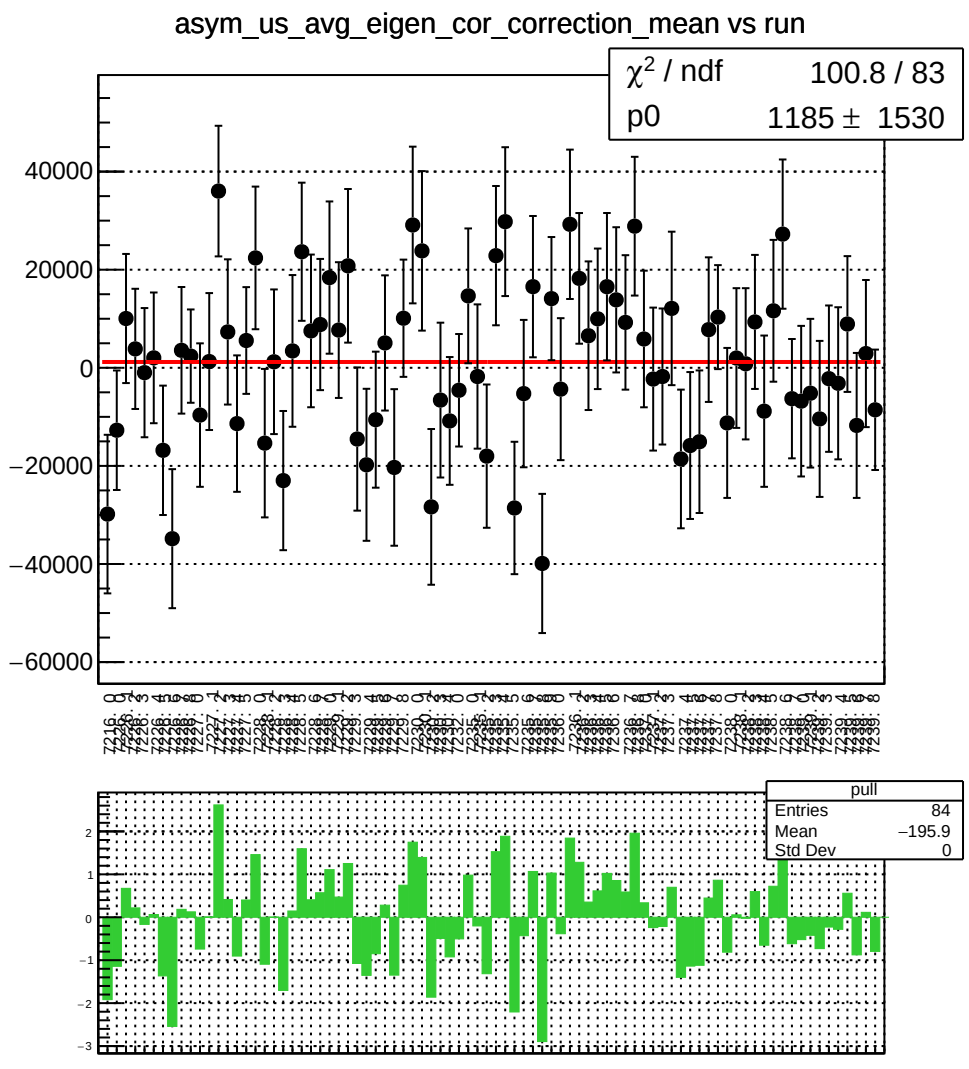
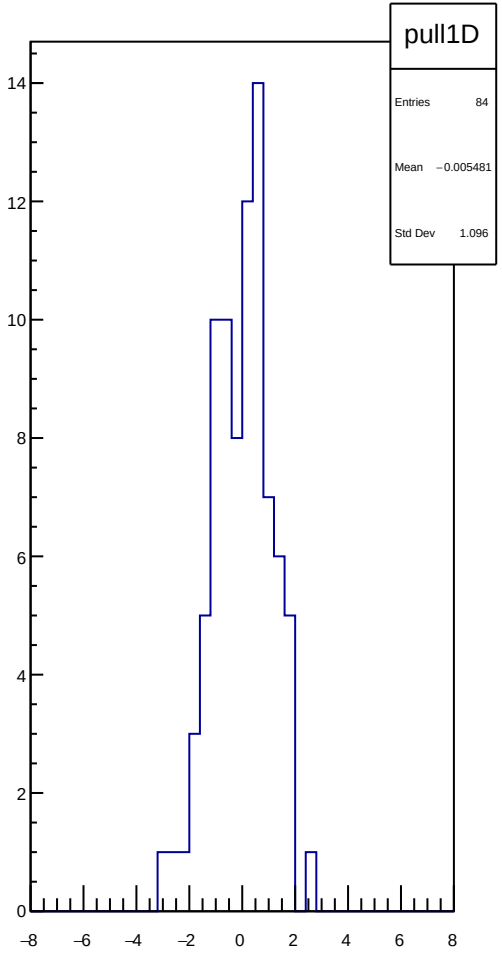
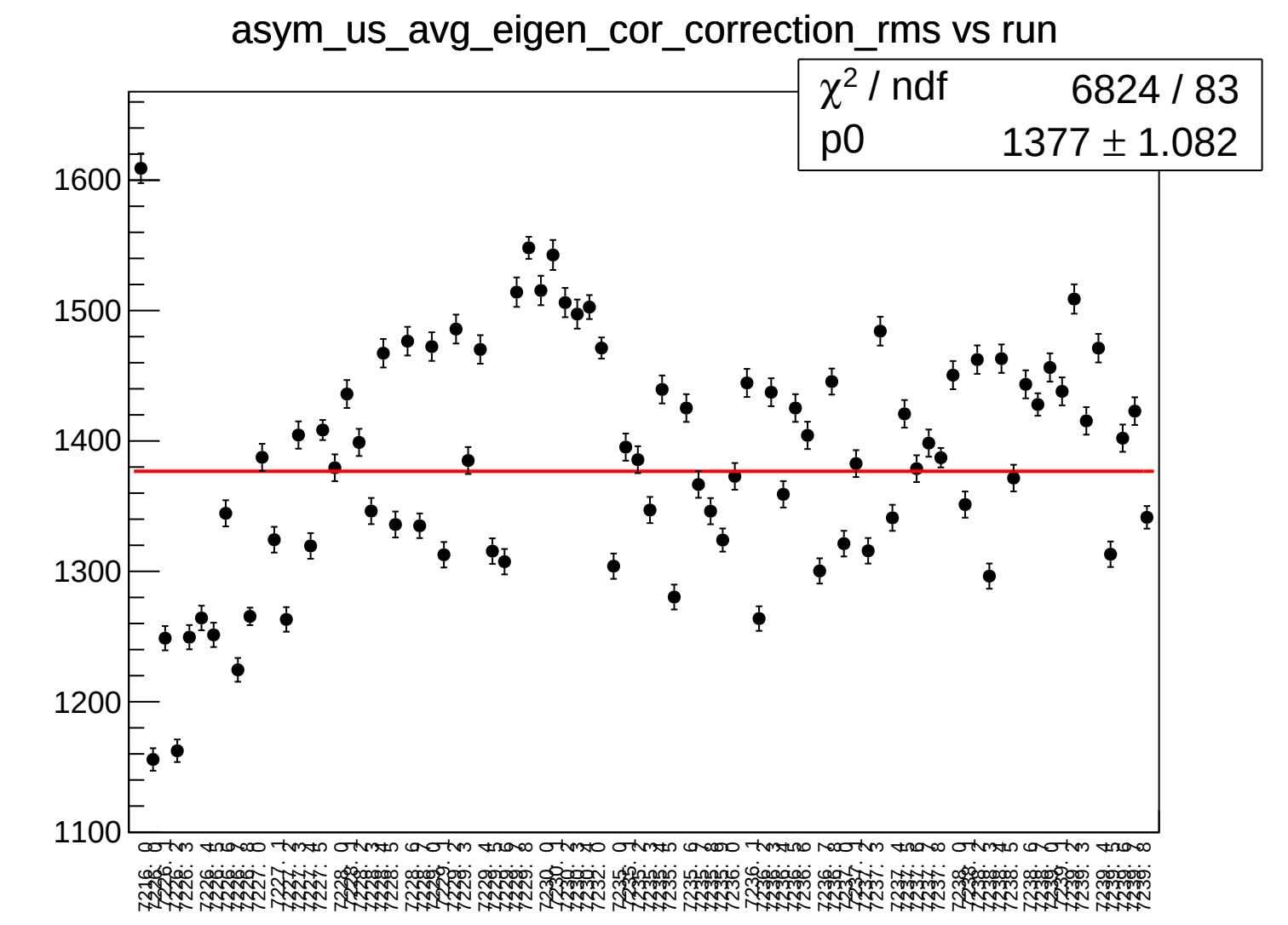
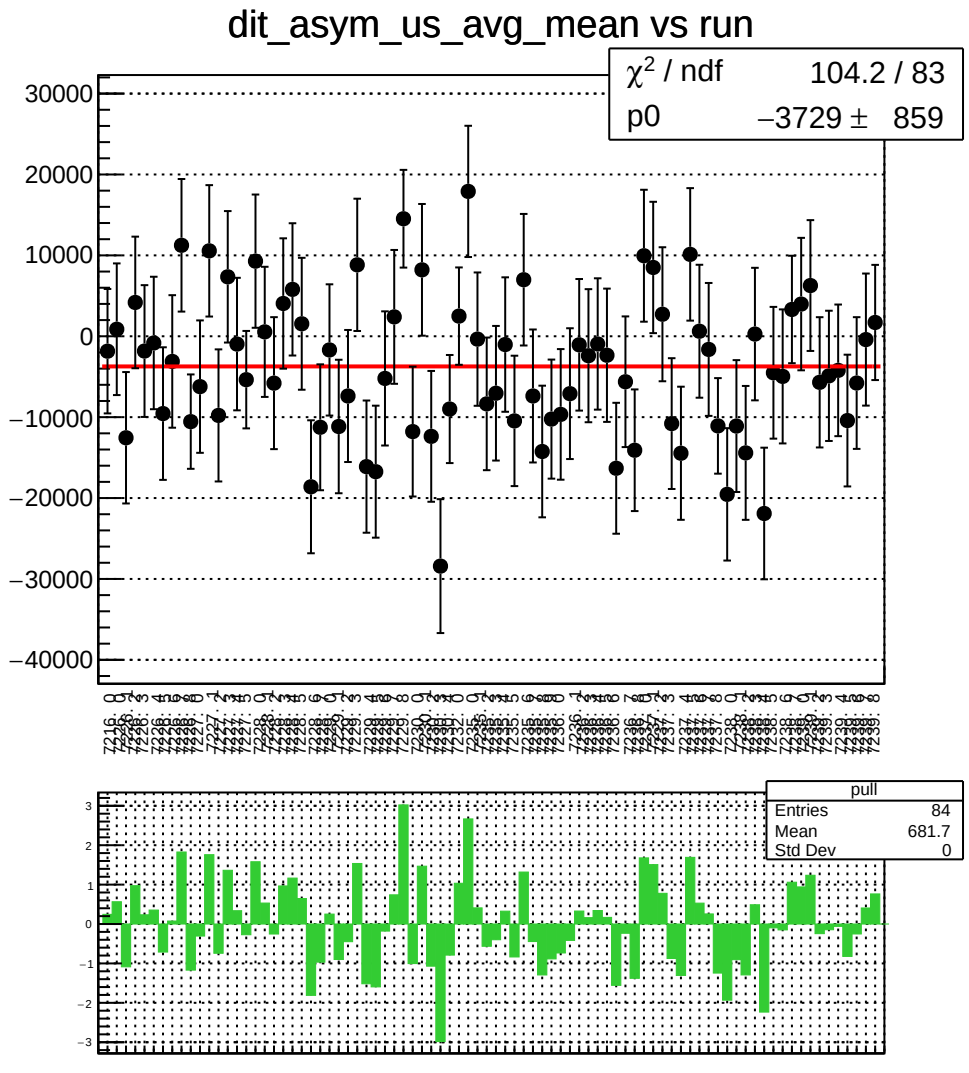
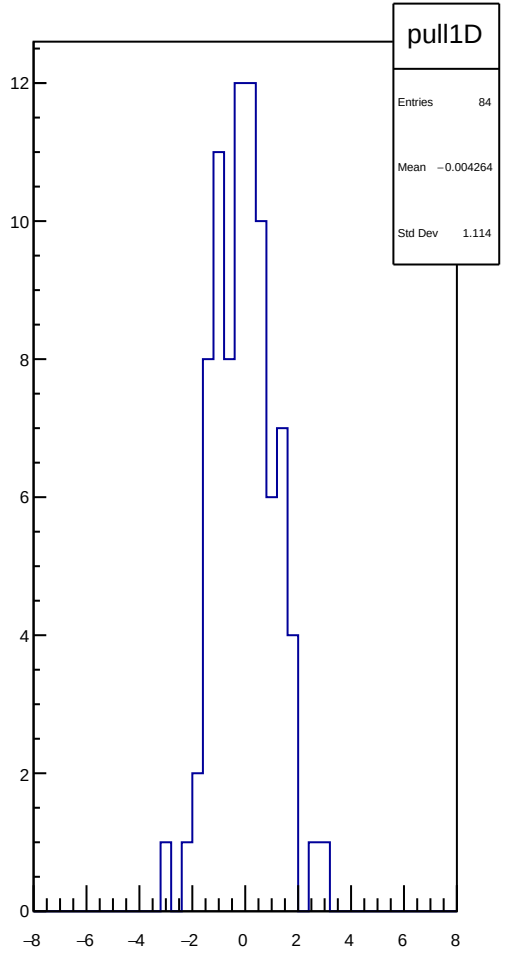

eigen_cor_asym_us_avg_rms vs run
χ² / ndf 102.4 / 83
p0 772.5 ± 0.6057
795
790
785
780
775
770
765
760
755

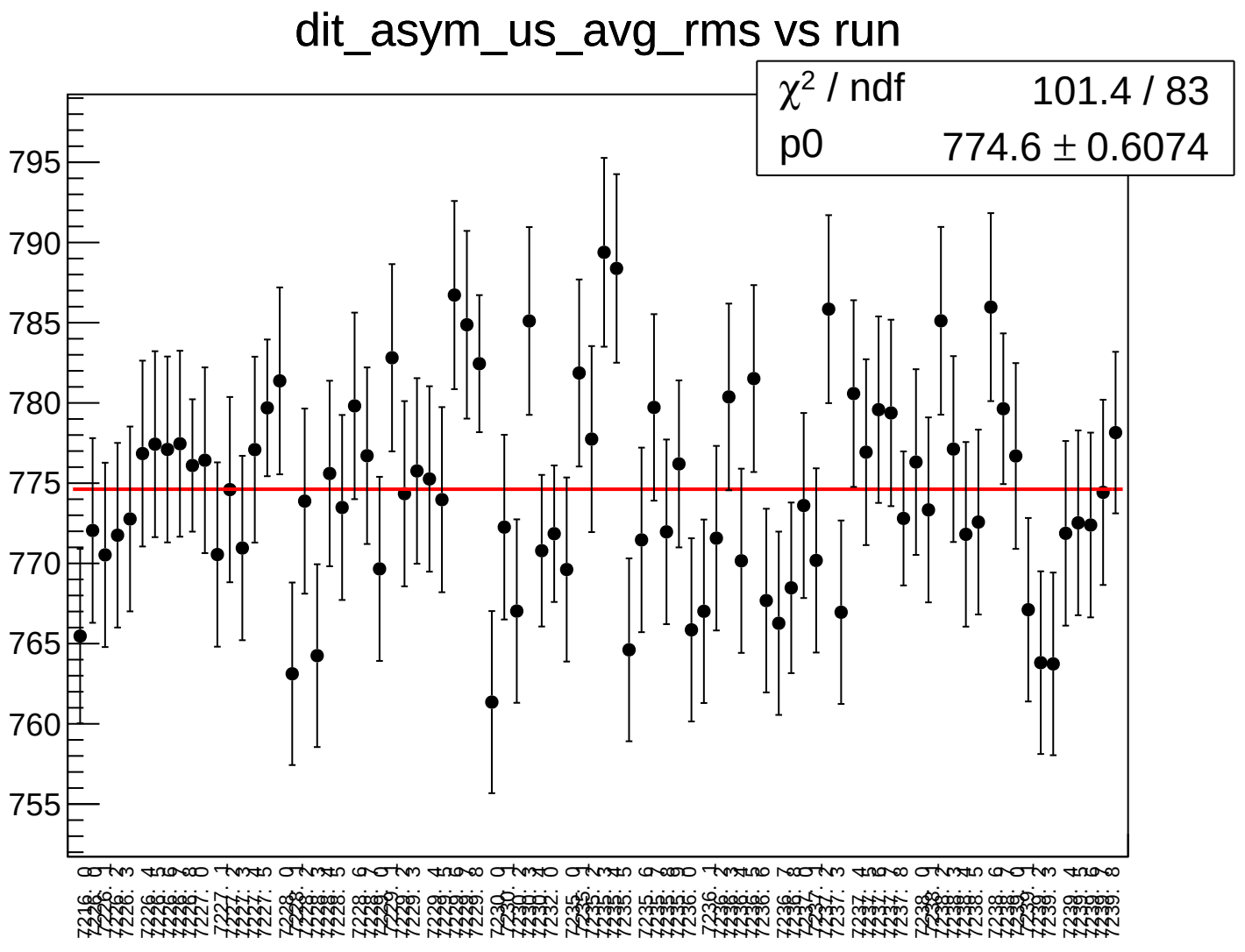

asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 100.8 / 83
p0 1185 ± 1530
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −195.9
Std Dev 0
2
1
0
−1
−2
−3

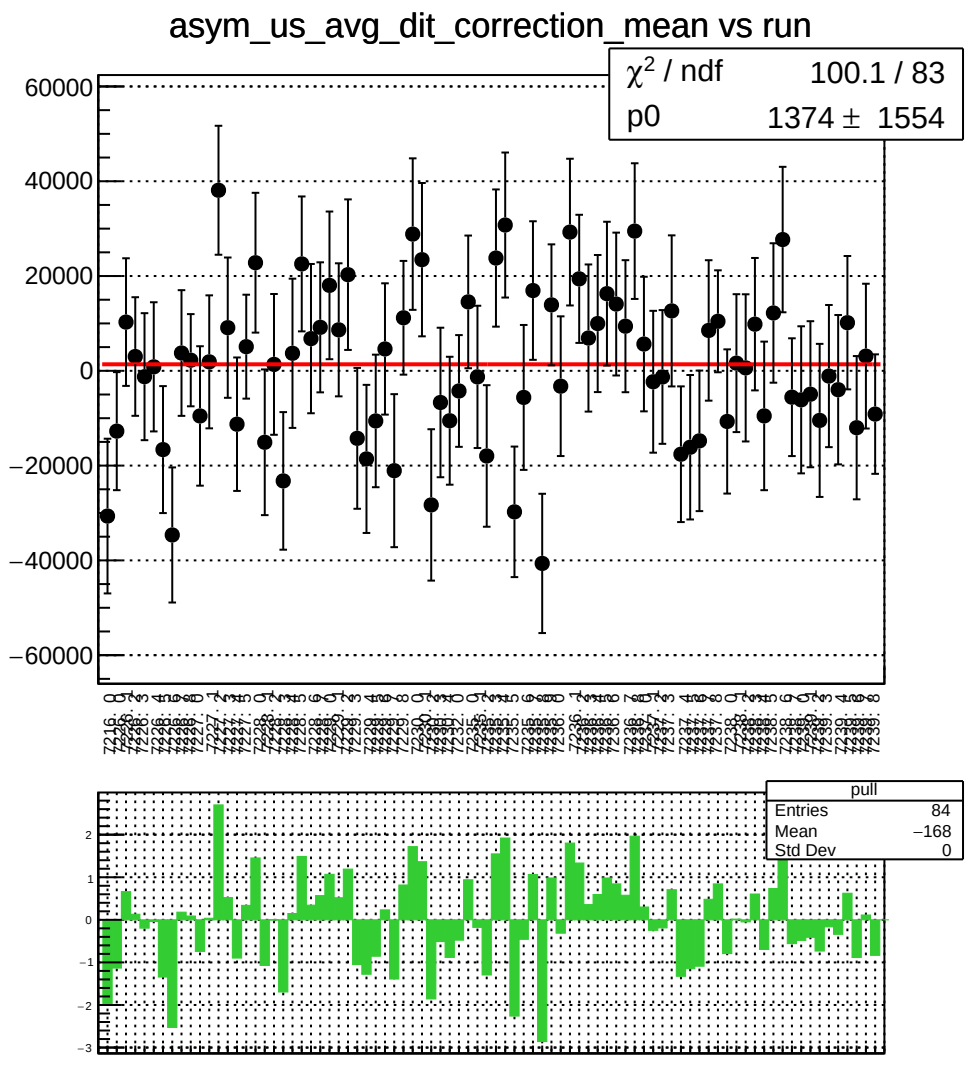

pull1D
Entries 84
Mean −0.005481
Std Dev 1.096
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

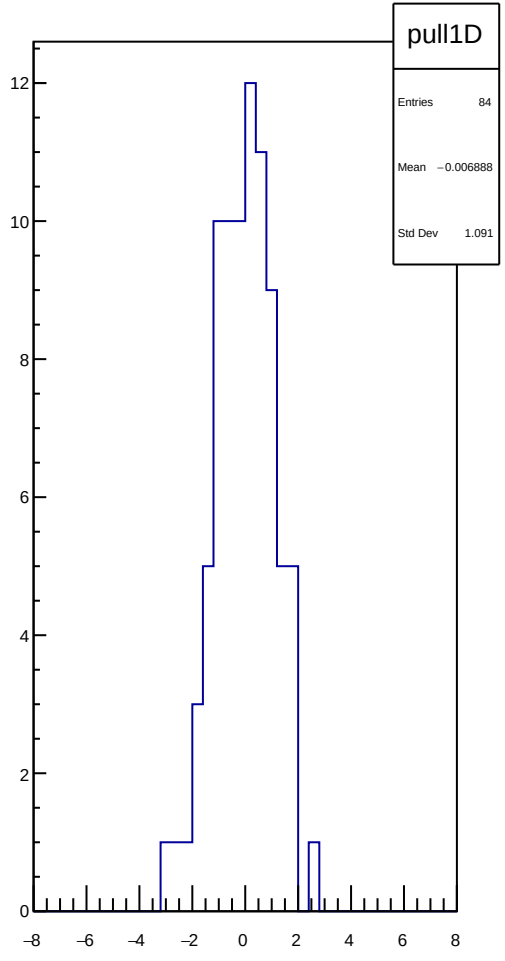

asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 6824 / 83
p0 1377 ± 1.082
1600
1500
1400
1300
1200
1100

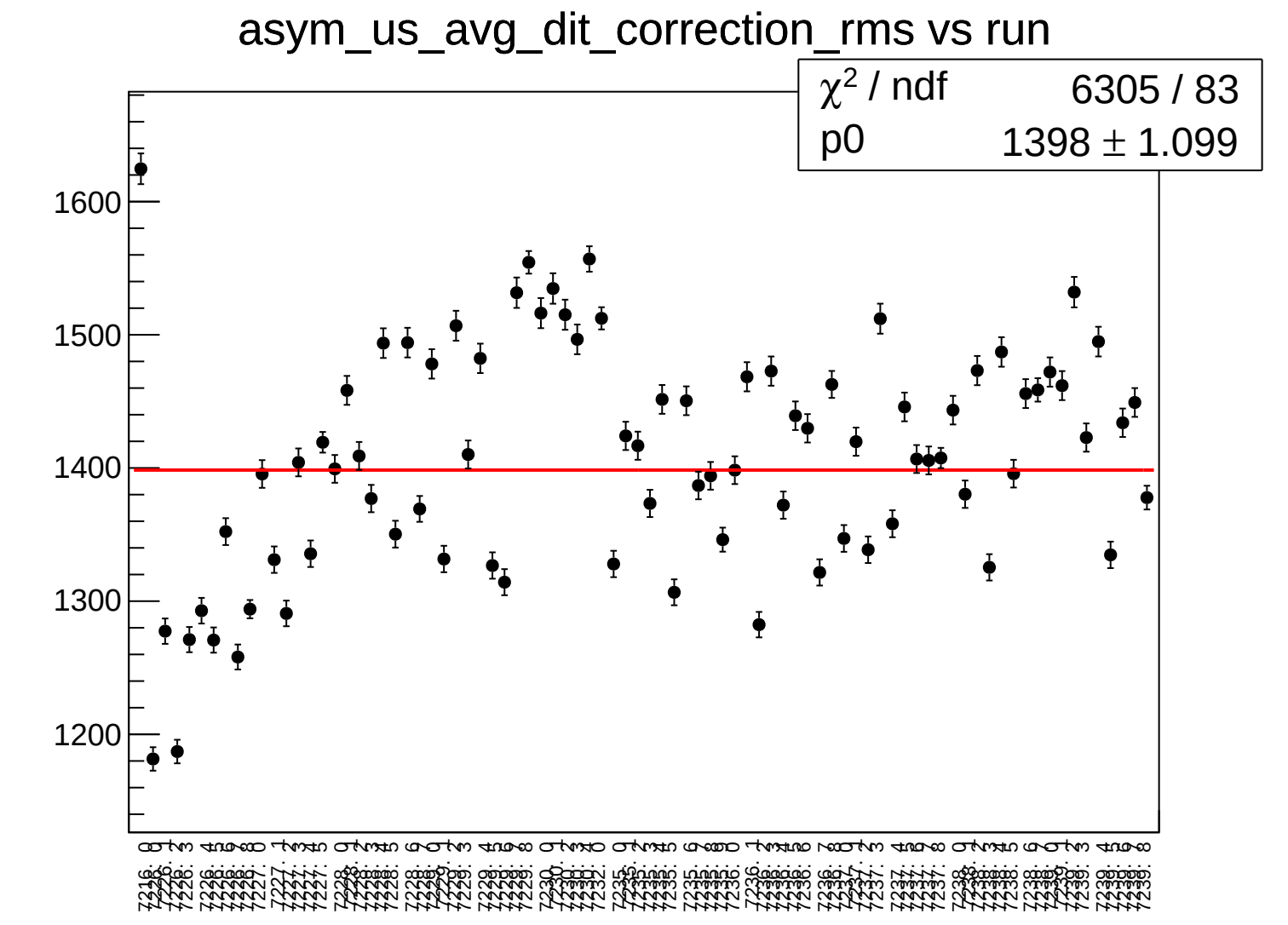

dit_asym_us_avg_mean vs run
χ² / ndf 104.2 / 83
p0 −3729 ± 859
pull
Entries 84
Mean 681.7
Std Dev 0

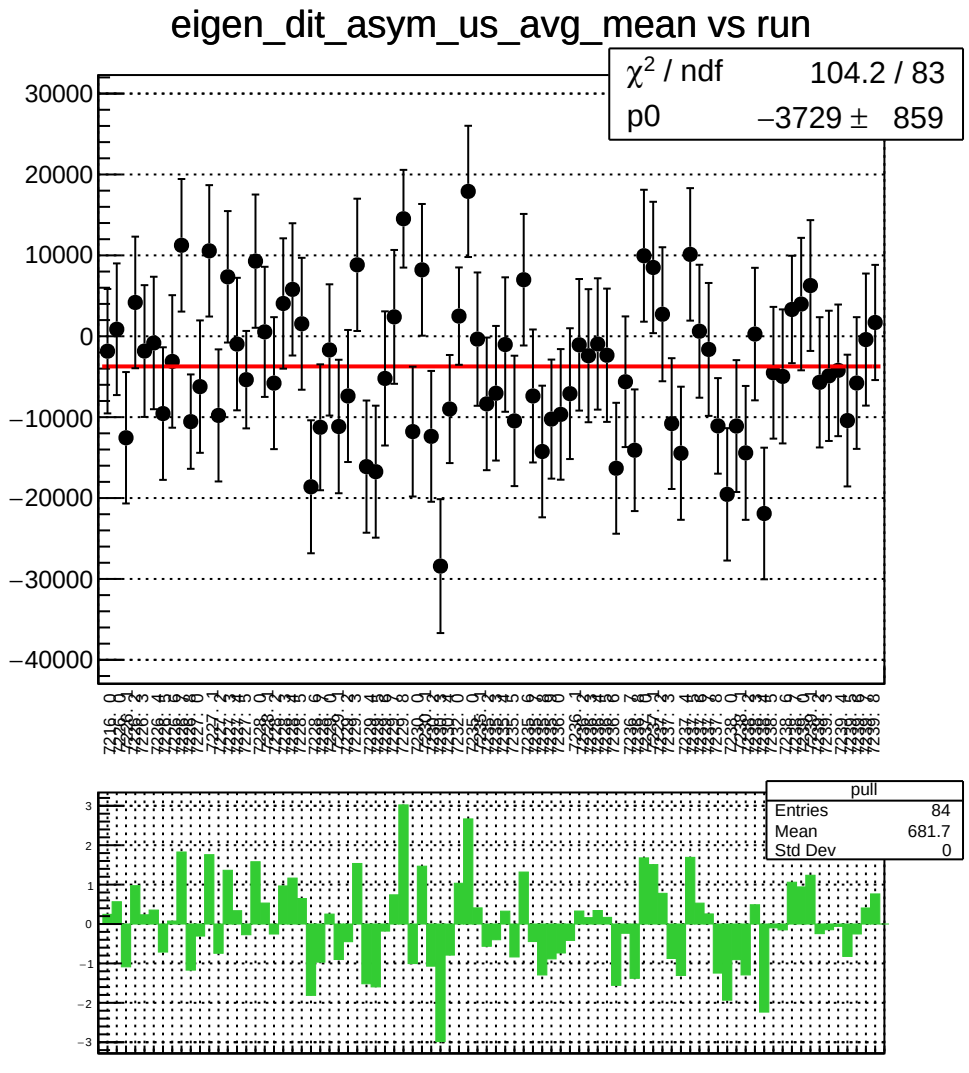

pull1D
Entries 84
Mean −0.004264
Std Dev 1.114

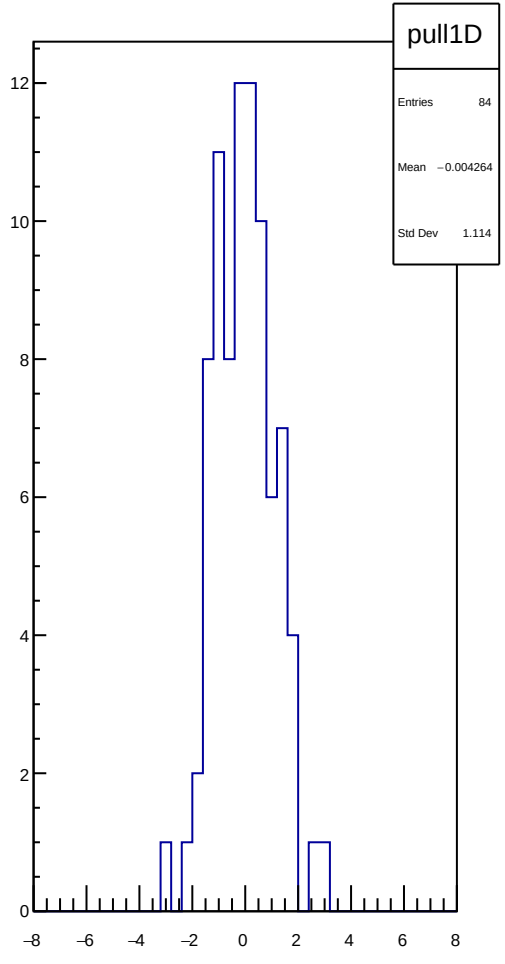

dit_asym_us_avg_rms vs run
χ^2 / ndf 101.4 / 83
p0 774.6 ± 0.6074
795
790
785
780
775
770
765
760
755

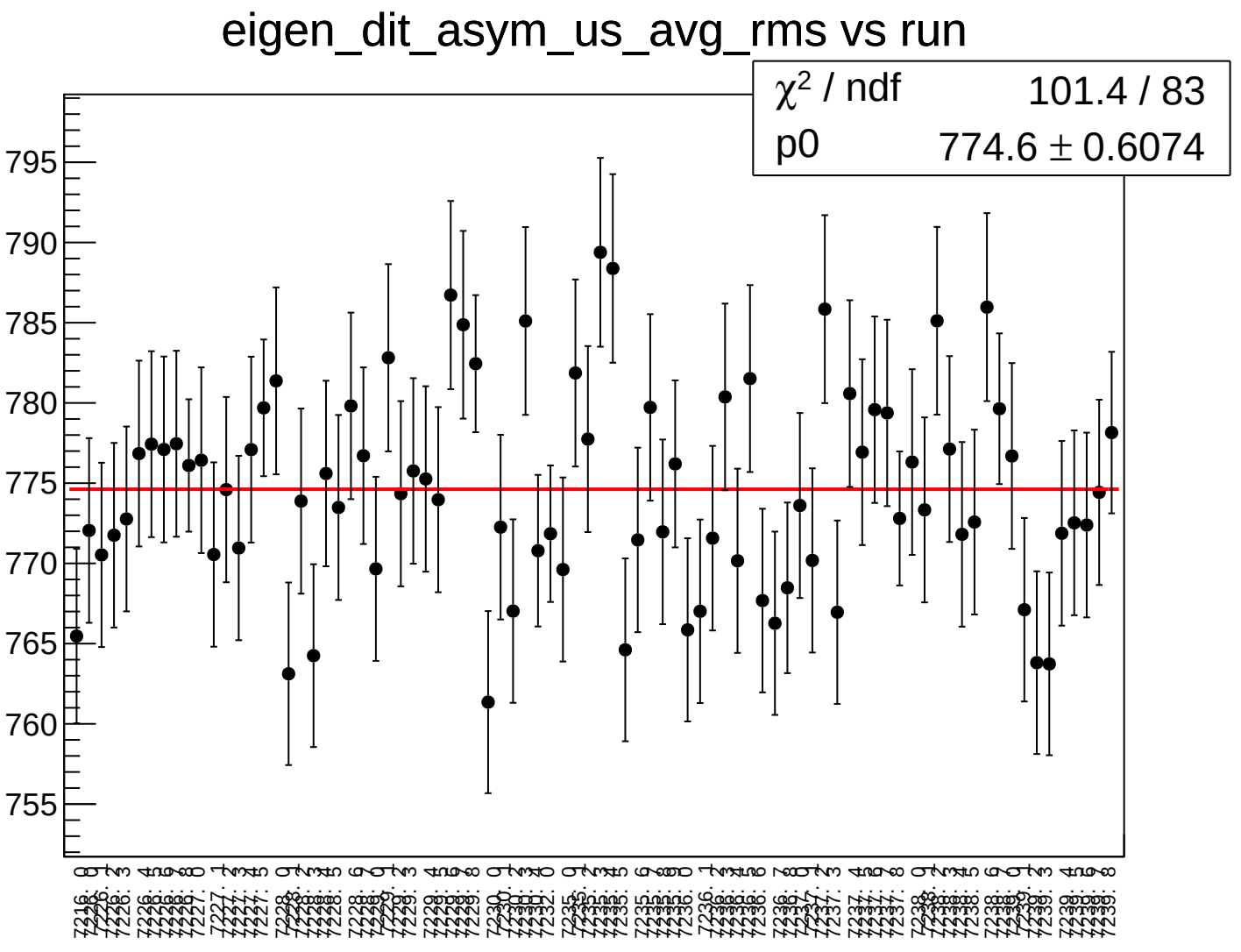

asym_us_avg_dit_correction_mean vs run
χ² / ndf 100.1 / 83
p0 1374 ± 1554
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −168
Std Dev 0
2
1
0
−1
−2
−3

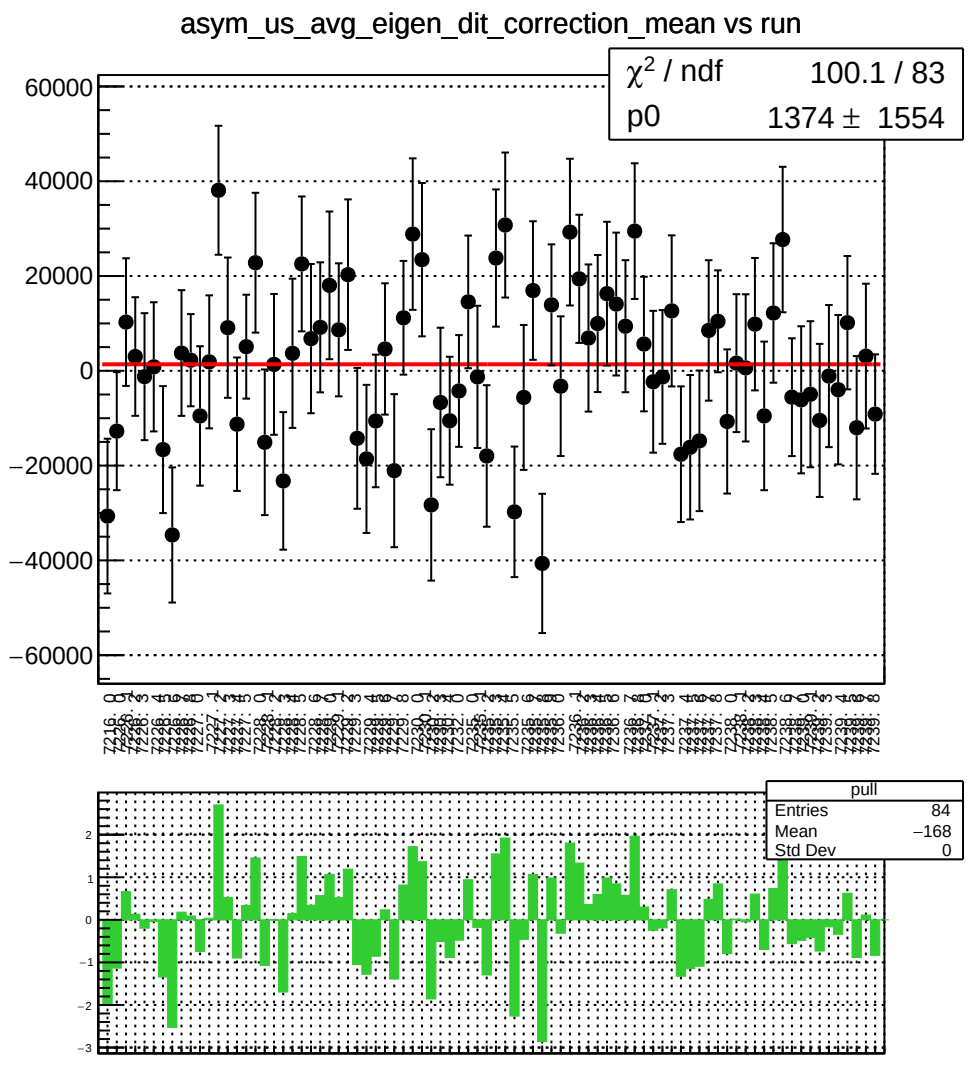

pull1D
Entries 84
Mean −0.006888
Std Dev 1.091
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

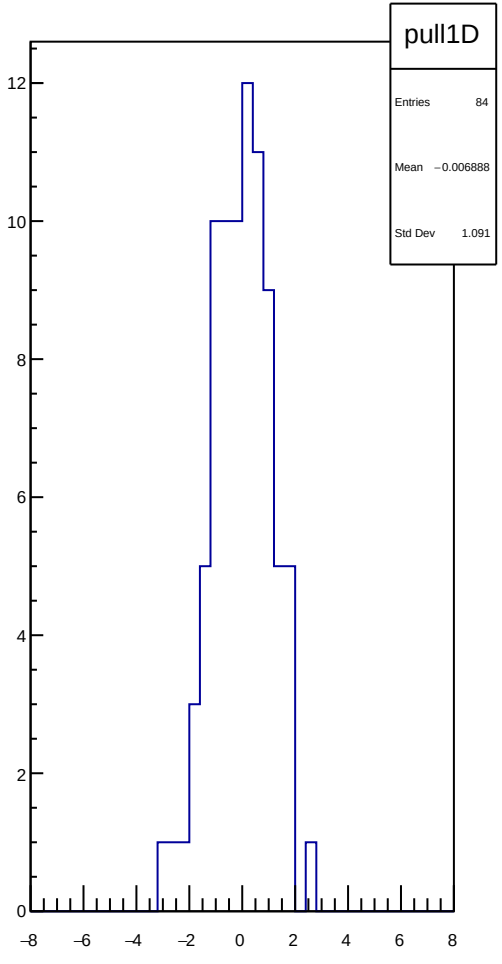

asym_us_avg_dit_correction_rms vs run
χ² / ndf 6305 / 83
p0 1398 ± 1.099
1600
1500
1400
1300
1200

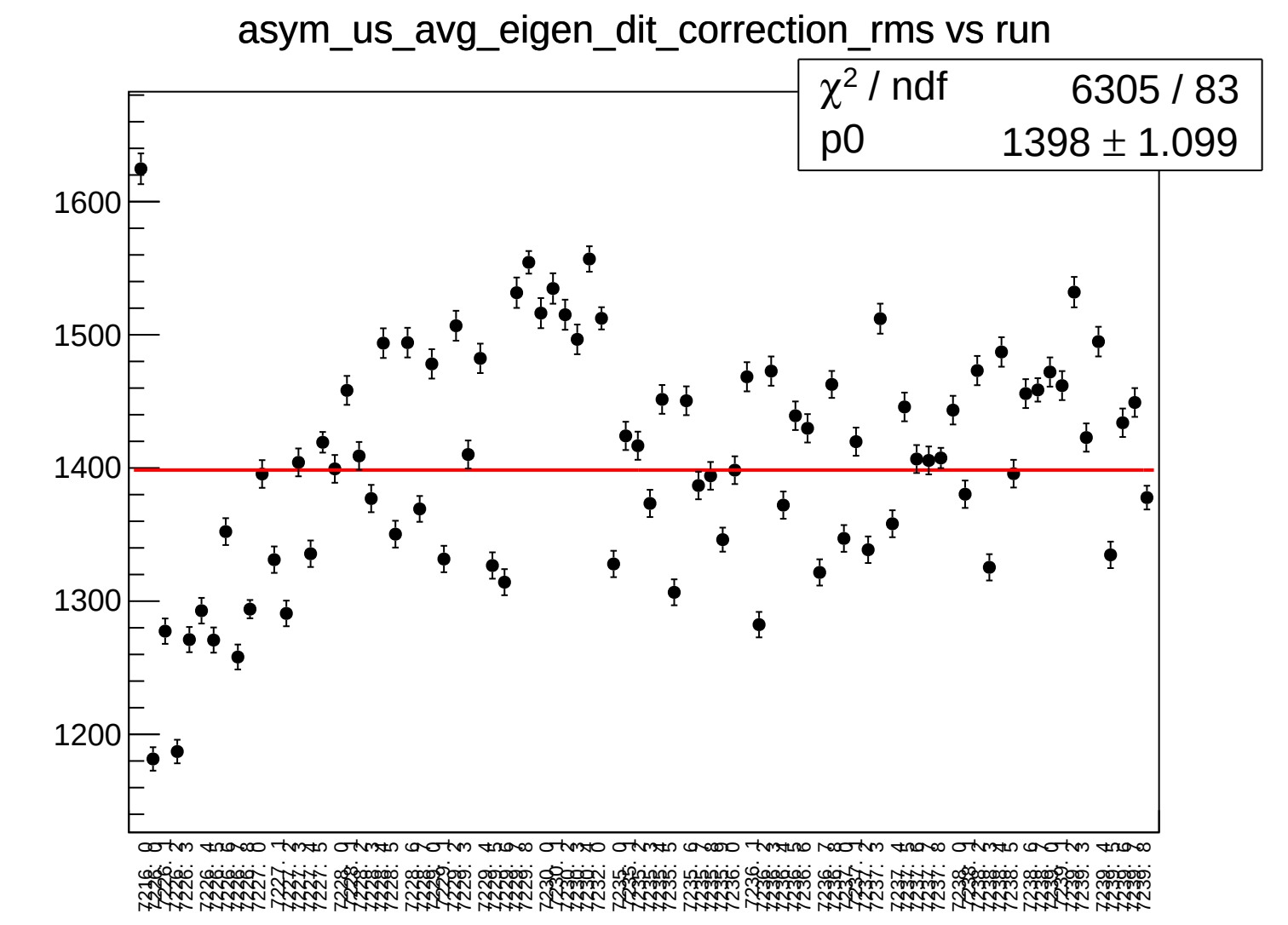

eigen_dit_asym_us_avg_mean vs run
χ² / ndf 104.2 / 83
p0 −3729 ± 859
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 84
Mean 681.7
Std Dev 0
3
2
1
0
−1
−2
−3

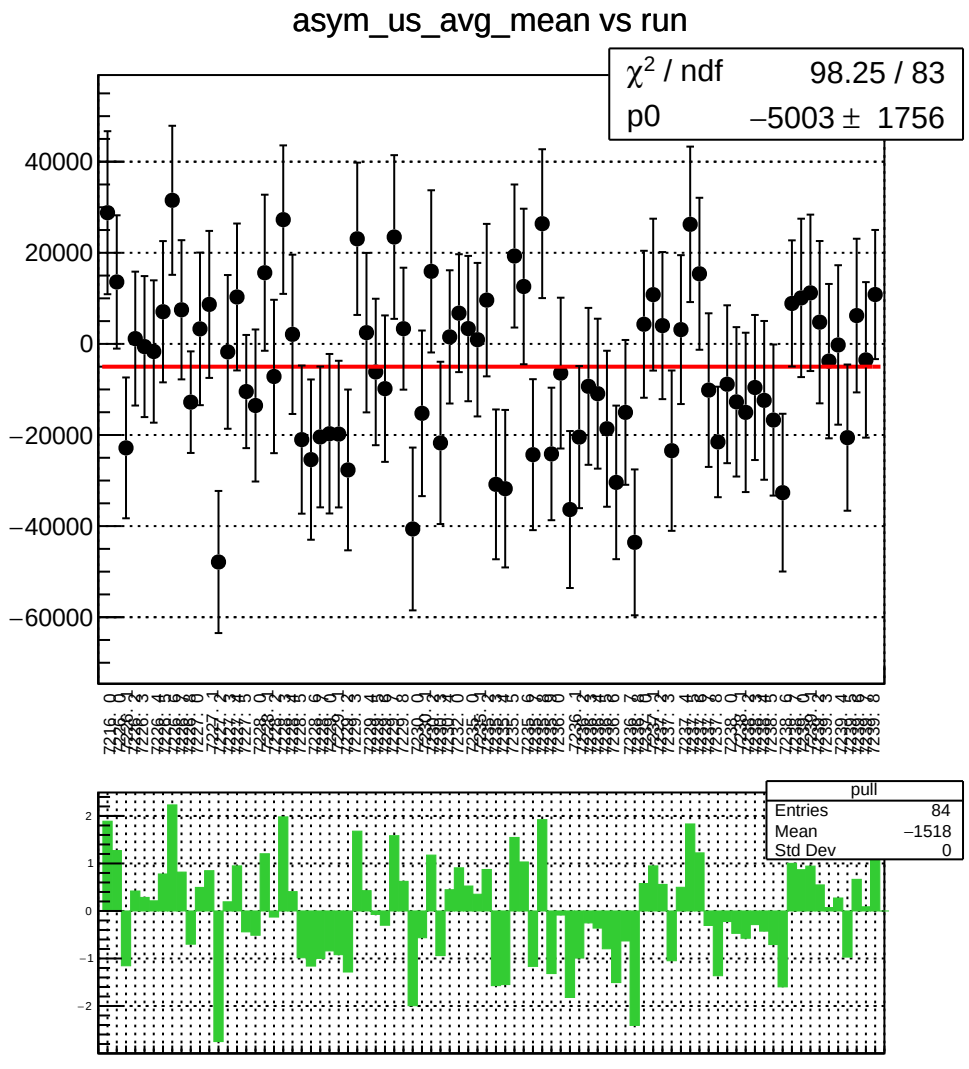

pull1D
Entries 84
Mean −0.004264
Std Dev 1.114
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

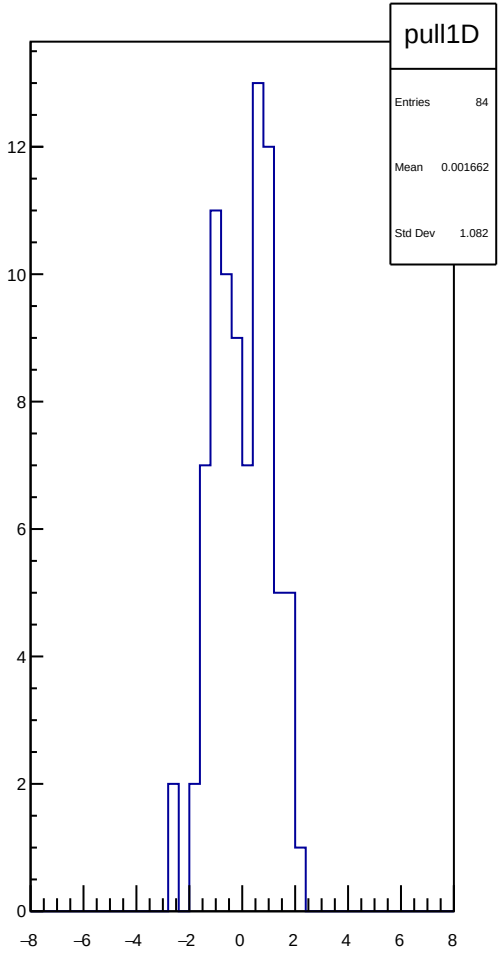

eigen_dit_asym_us_avg_rms vs run
χ² / ndf 101.4 / 83
p0 774.6 ± 0.6074
795
790
785
780
775
770
765
760
755


asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 100.1 / 83
p0 1374 ± 1554
pull
Entries 84
Mean −168
Std Dev 0


pull1D
Entries 84
Mean −0.006888
Std Dev 1.091


asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 6305 / 83
p0 1398 ± 1.099
1600
1500
1400
1300
1200


asym_us_avg_mean vs run
χ² / ndf 98.25 / 83
p0 −5003 ± 1756
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −1518
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 84
Mean 0.001662
Std Dev 1.082
12
10
8
6
4
2
0
−8
−6
−4
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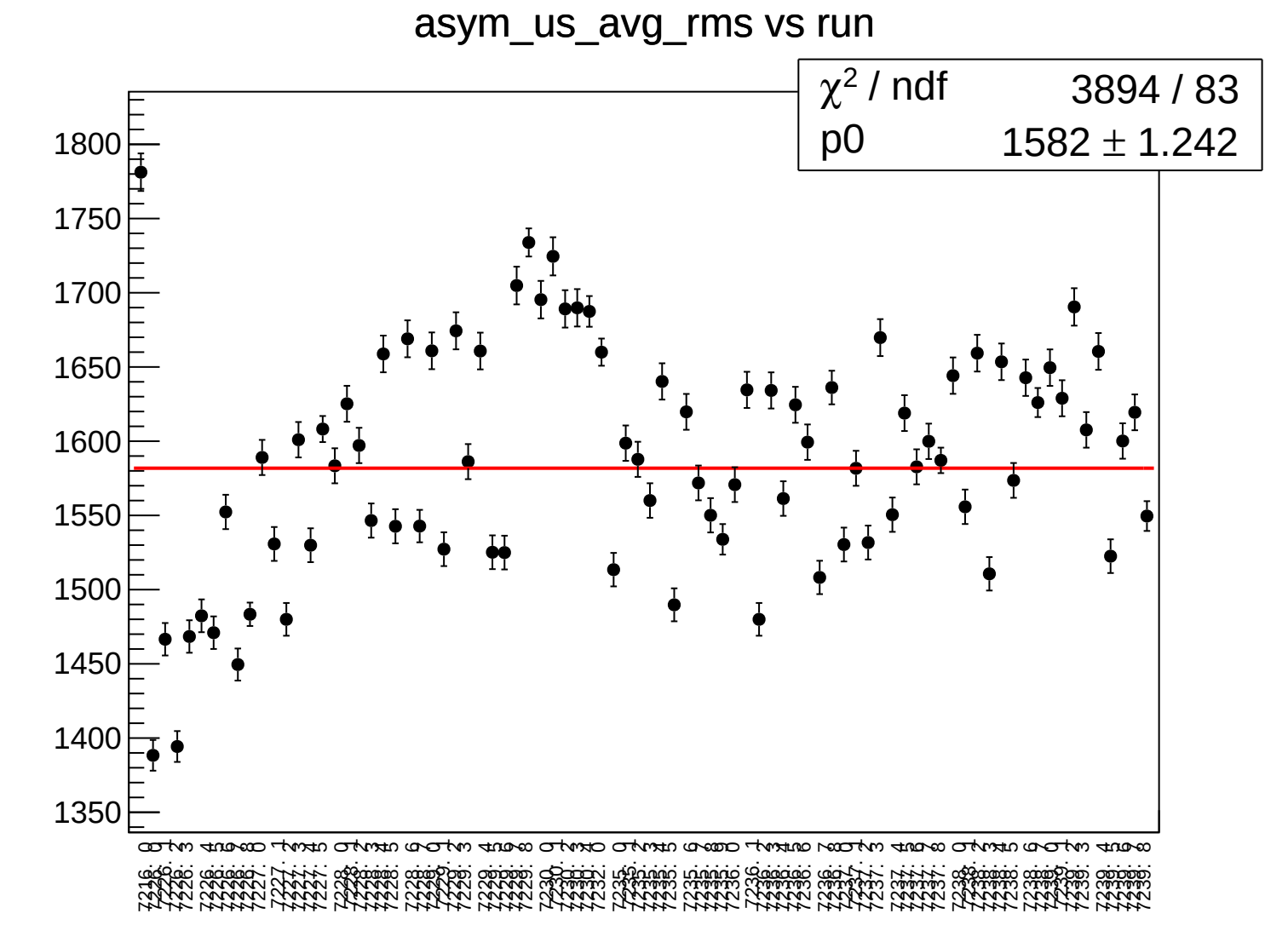
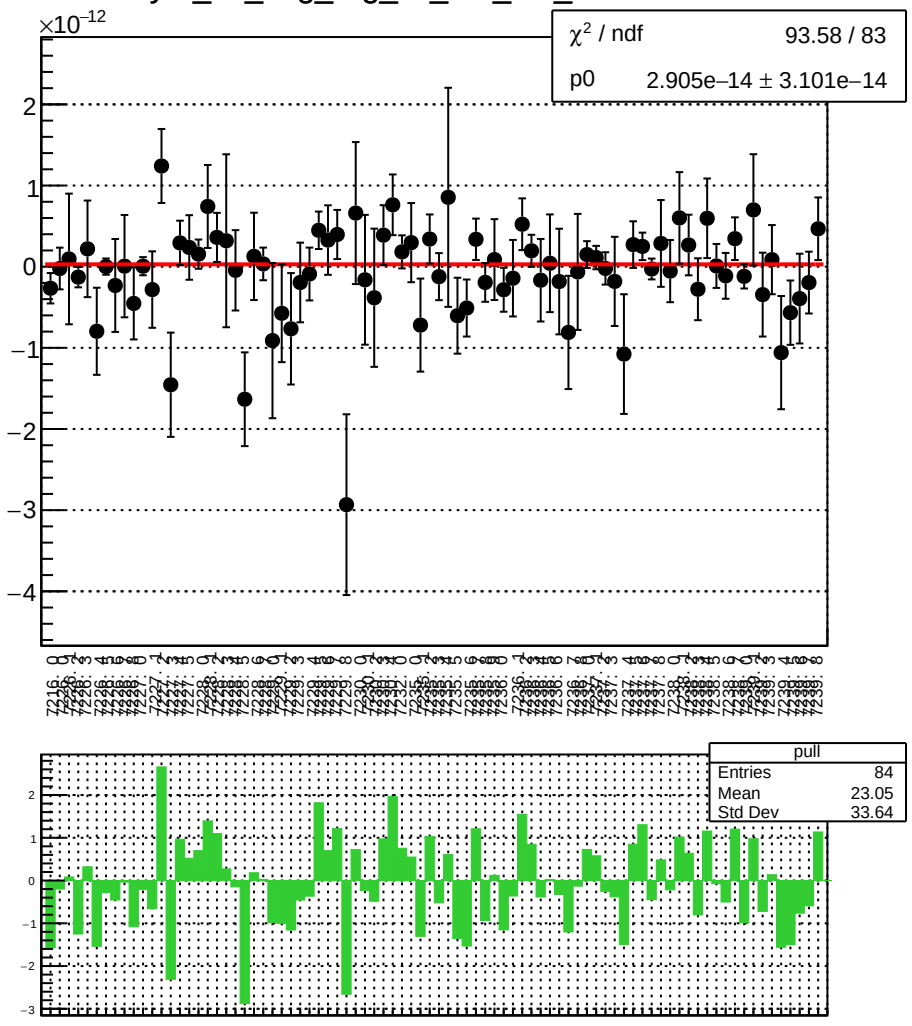
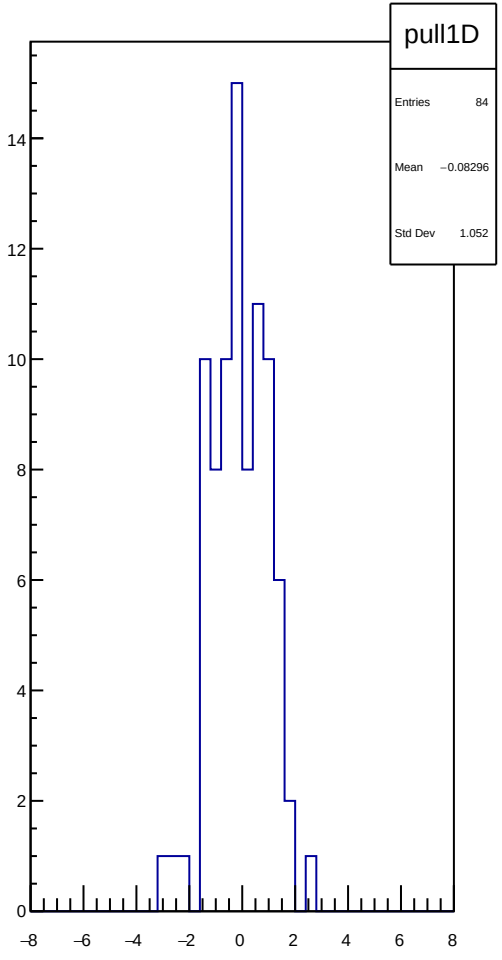
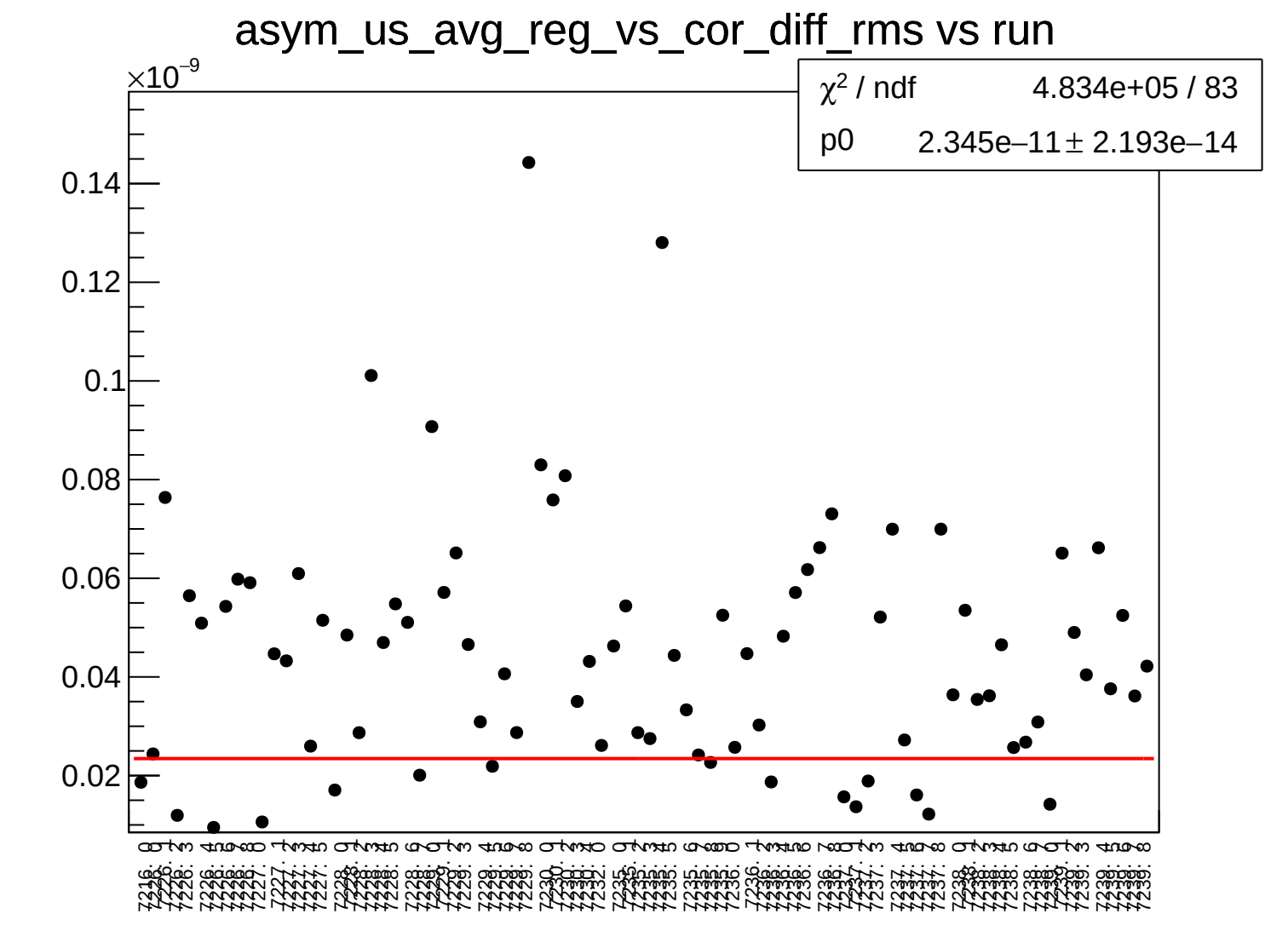
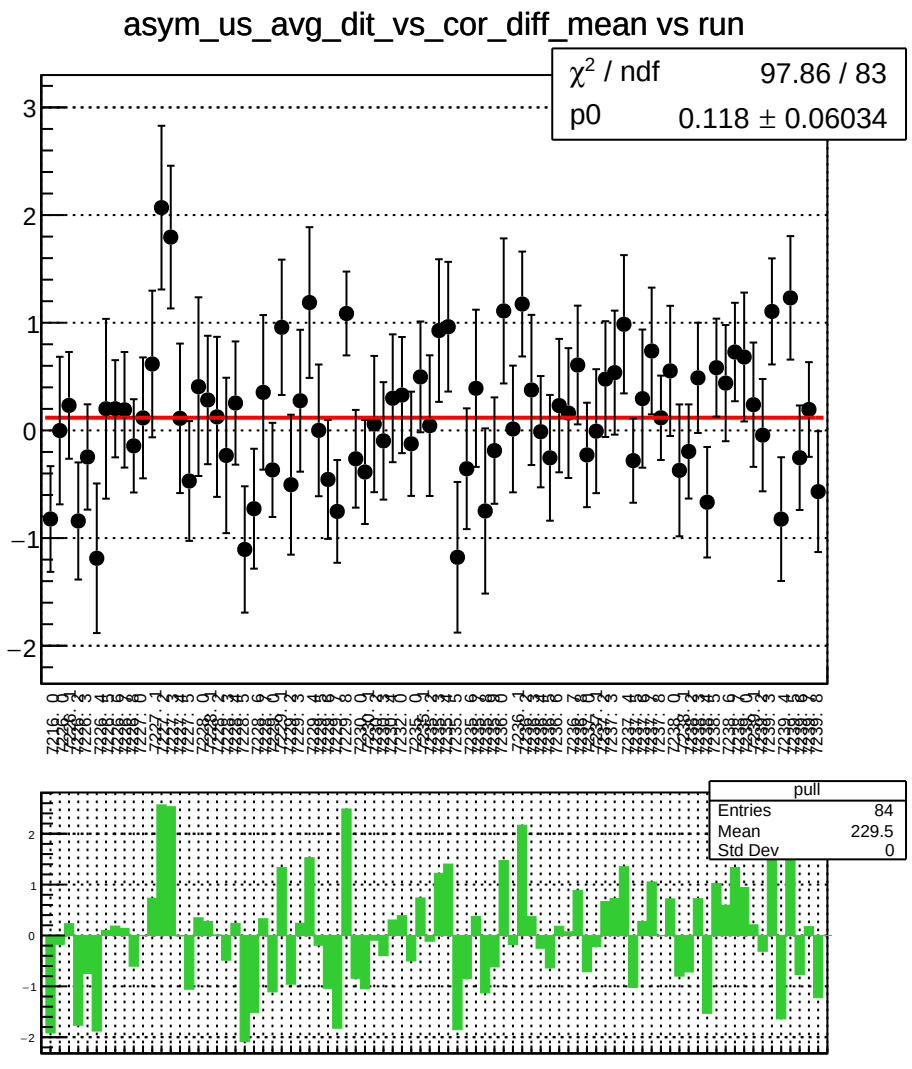
0
2
4
6
8

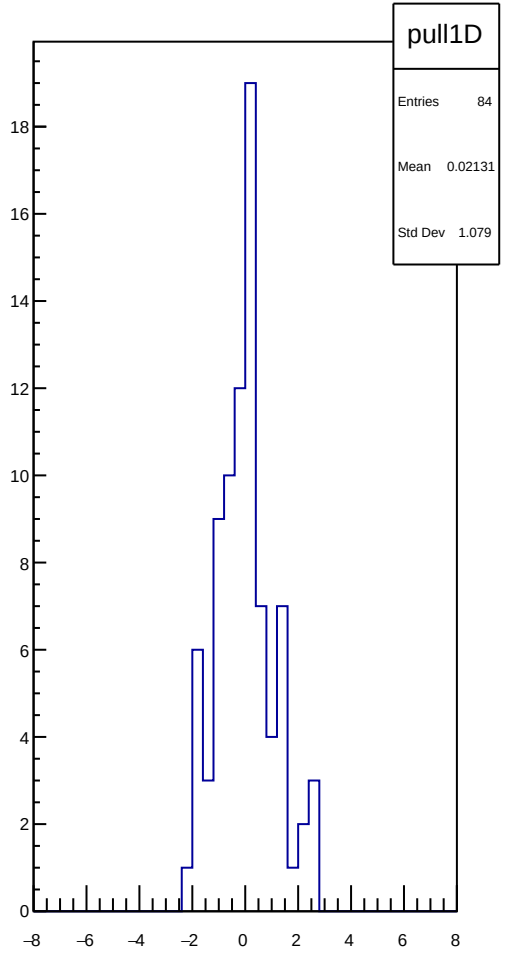

asym_us_avg_rms vs run
χ² / ndf 3894 / 83
p0 1582 ± 1.242
1800
1750
1700
1650
1600
1550
1500
1450
1400
1350

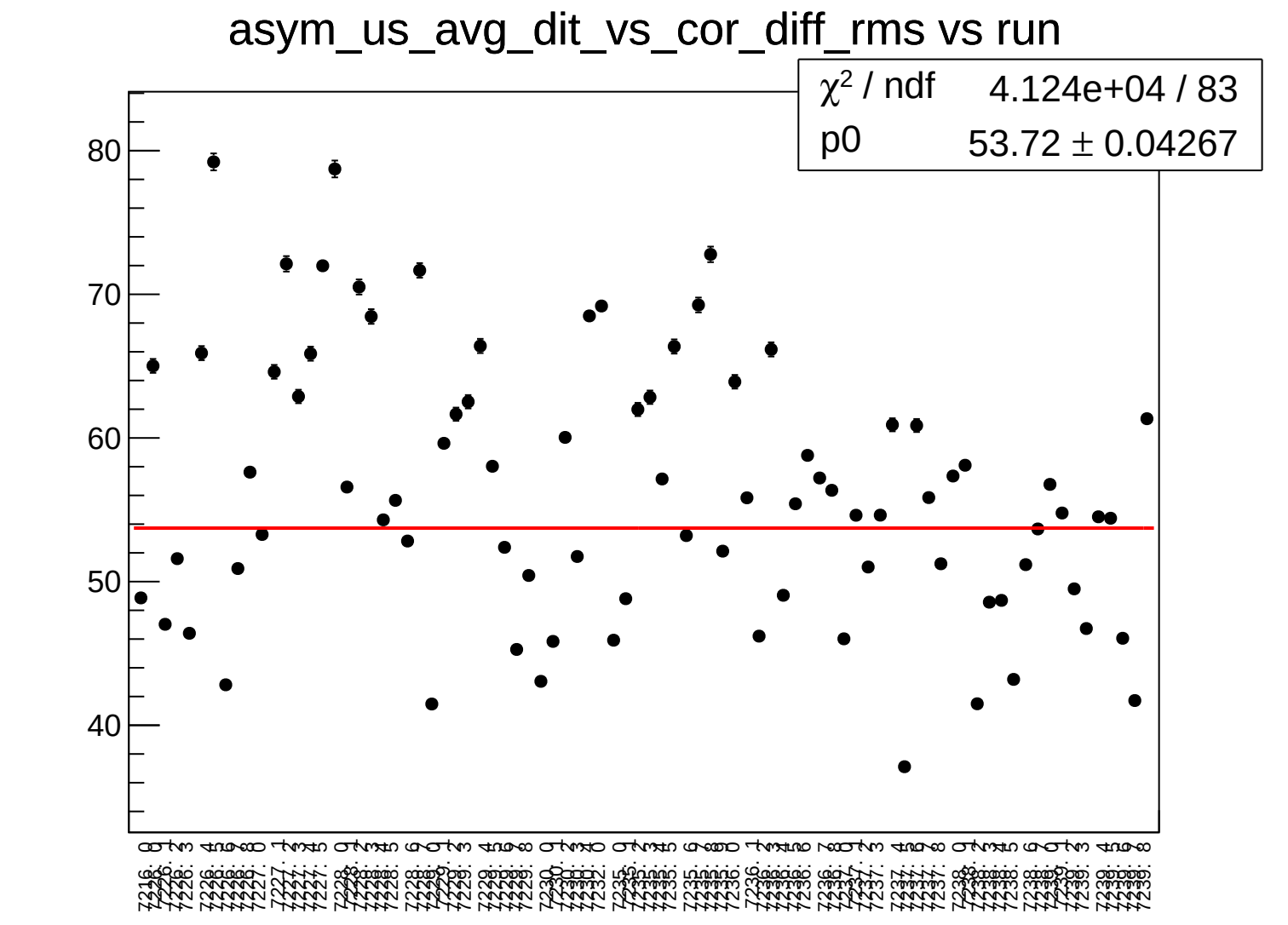

asym_us_avg_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.58 / 83
p0 2.905e−14 ± 3.101e−14
pull
Entries 84
Mean 23.05
Std Dev 33.64

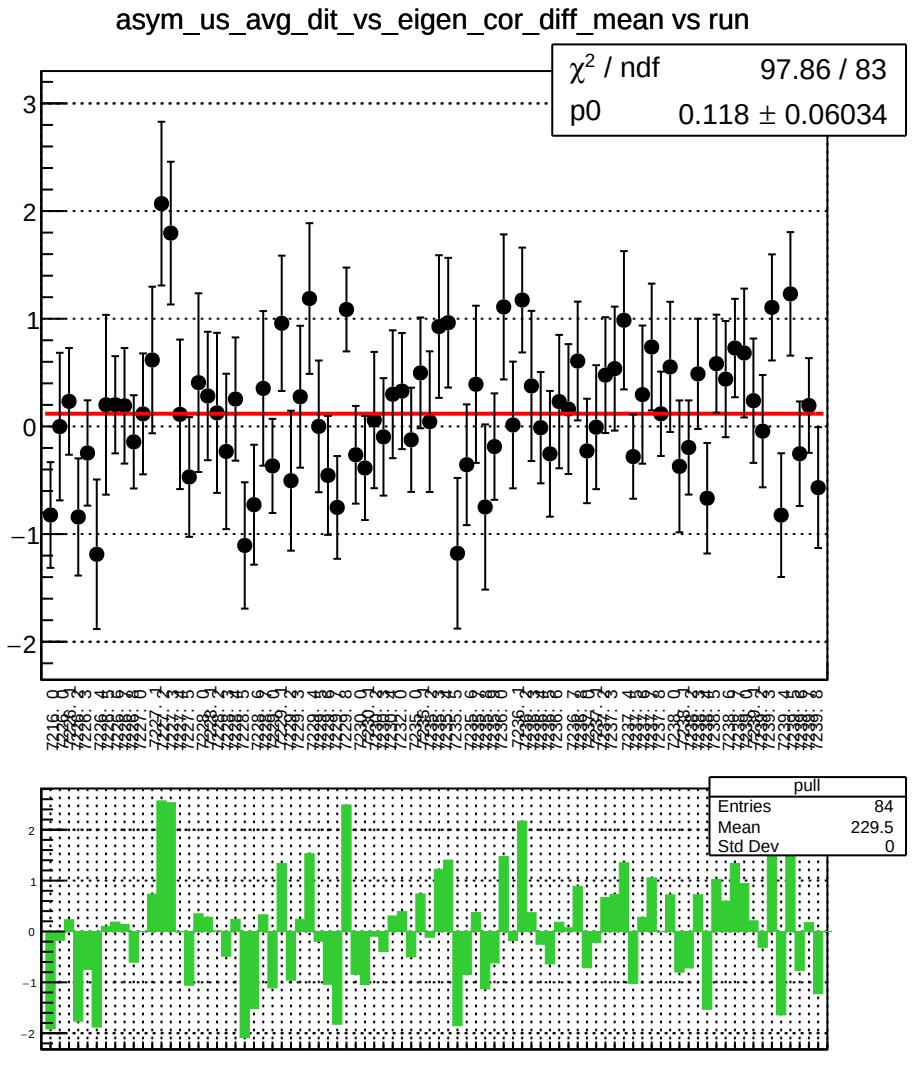

pull1D
Entries 84
Mean −0.08296
Std Dev 1.052

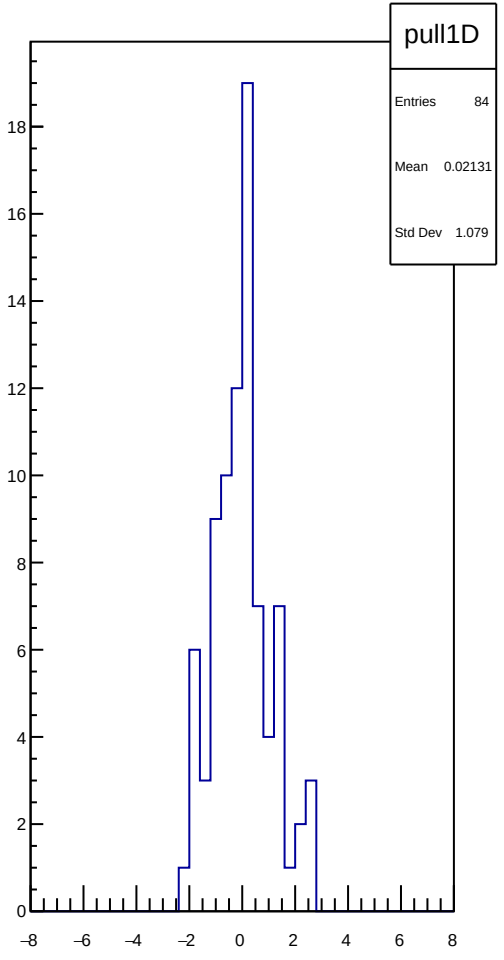

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.834e+05 / 83
p0 2.345e−11 ± 2.193e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

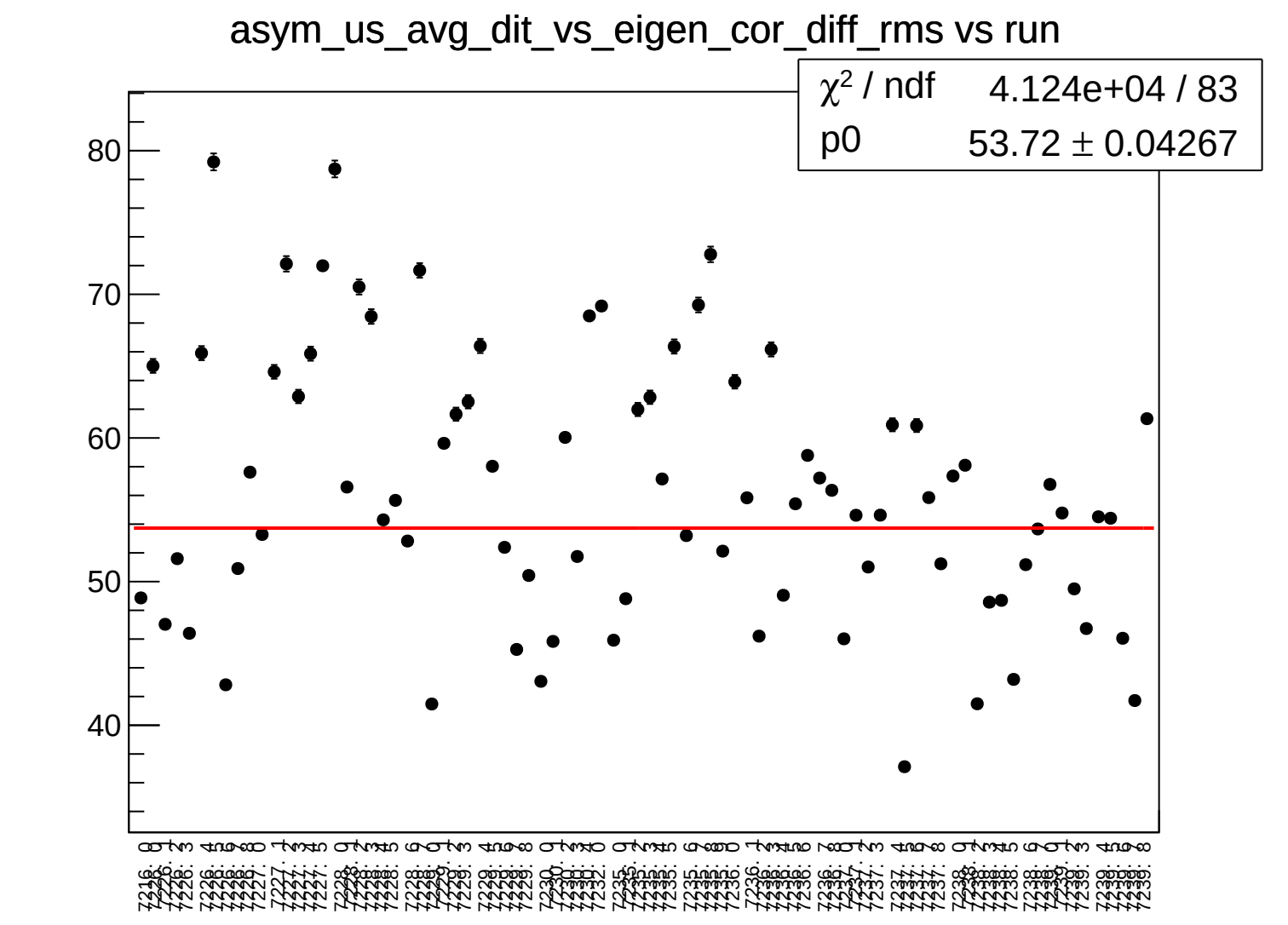

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 97.86 / 83
p0 0.118 ± 0.06034
pull
Entries 84
Mean 229.5
Std Dev 0

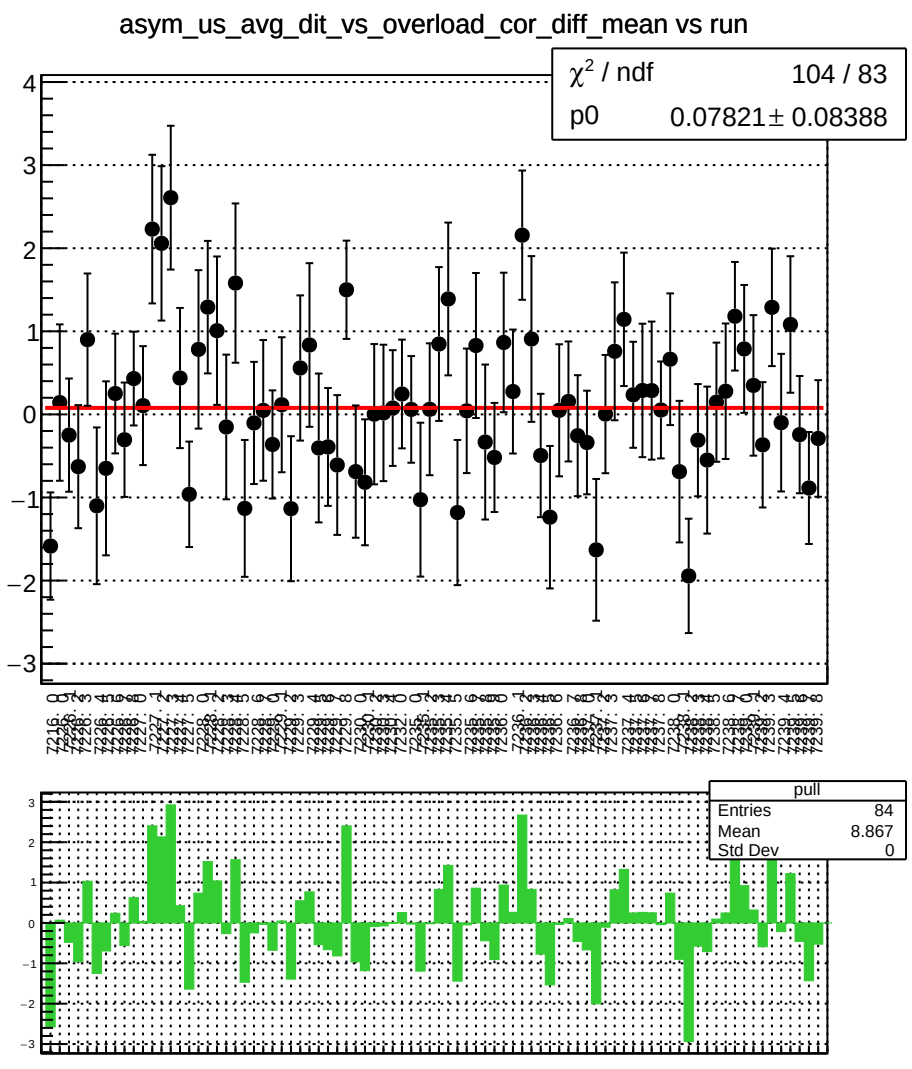

pull1D
Entries 84
Mean 0.02131
Std Dev 1.079

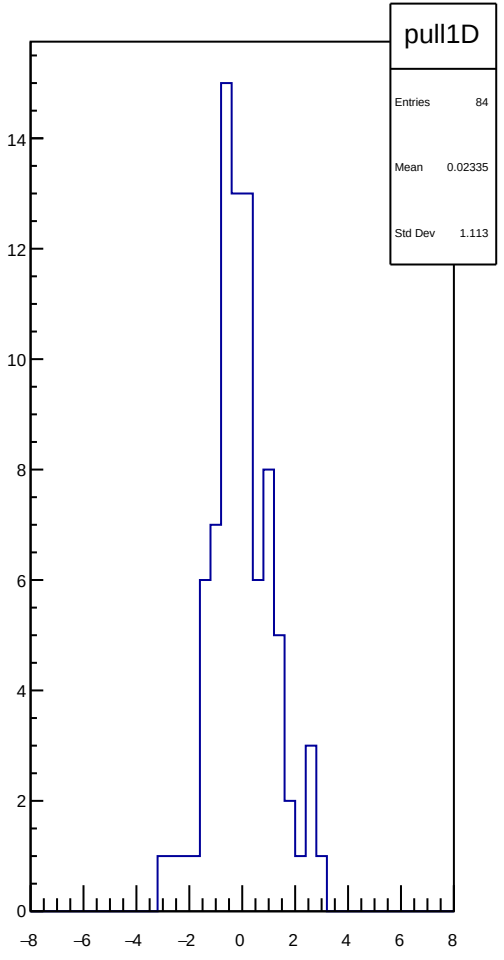

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.124e+04 / 83
p0 53.72 ± 0.04267
80
70
60
50
40

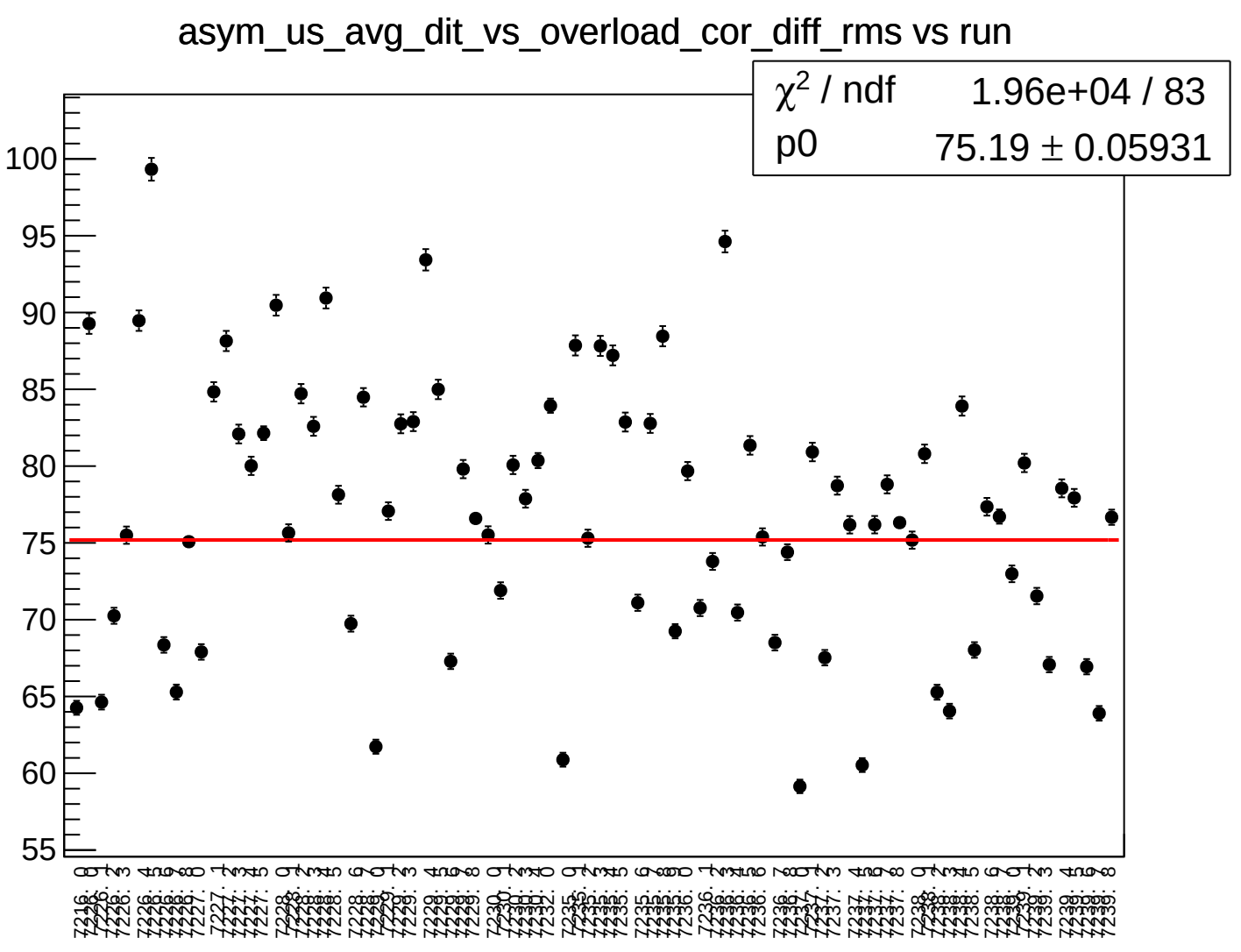

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.86 / 83
p0 0.118 ± 0.06034
pull
Entries 84
Mean 229.5
Std Dev 0

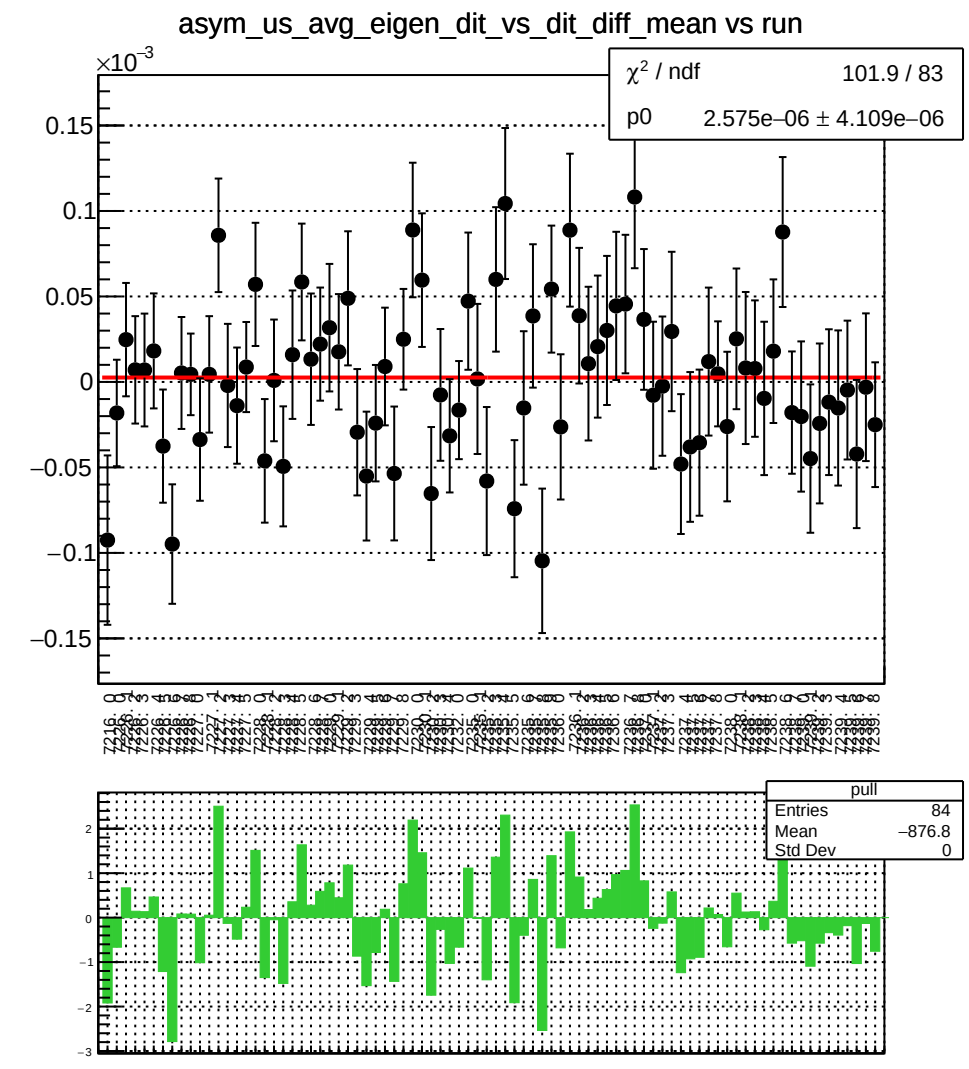

pull1D
Entries 84
Mean 0.02131
Std Dev 1.079

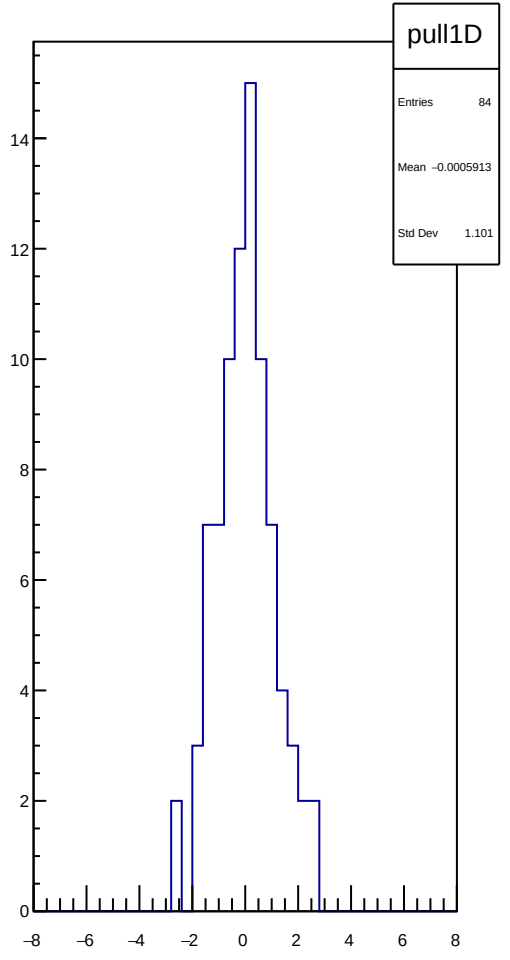

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.124e+04 / 83
p0 53.72 ± 0.04267
80
70
60
50
40

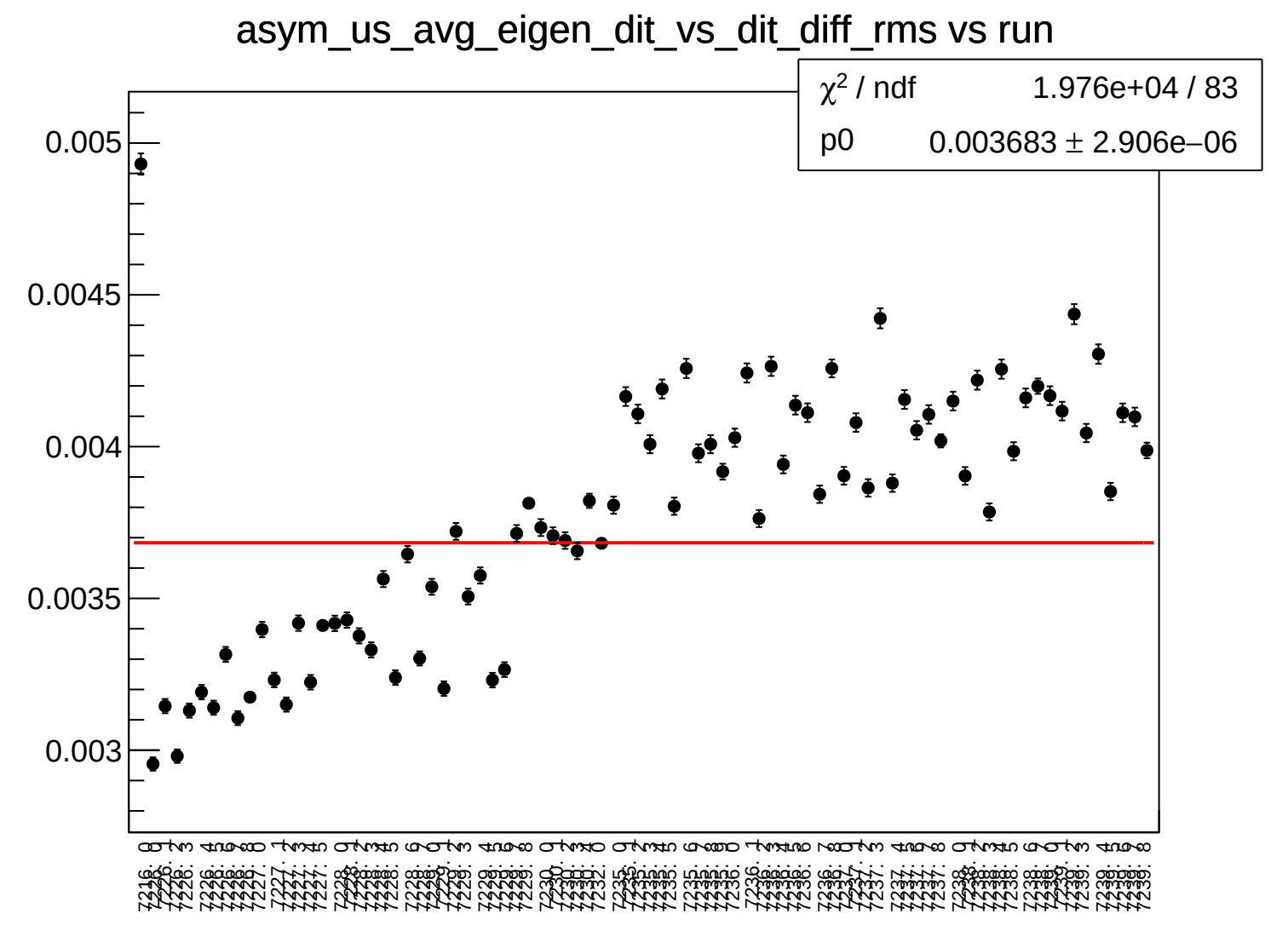

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 104 / 83
p0 0.07821 ± 0.08388
pull
Entries 84
Mean 8.867
Std Dev 0

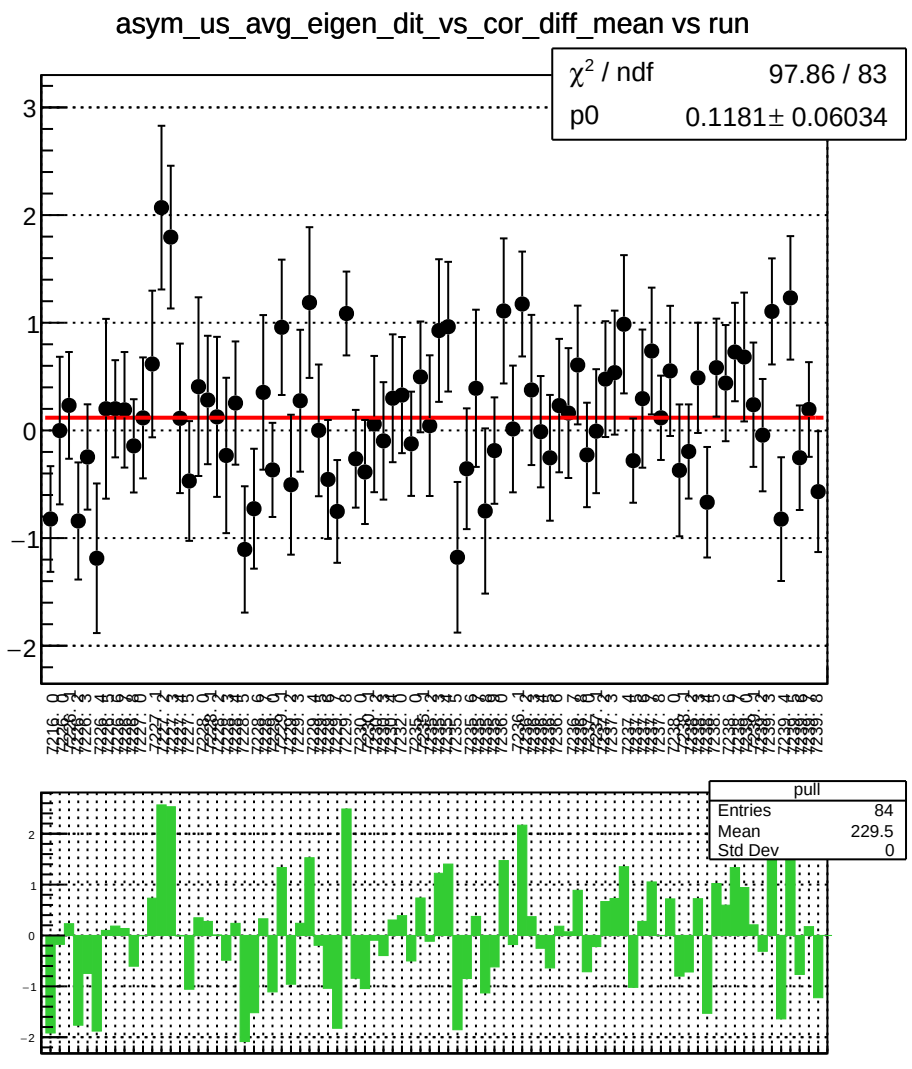

pull1D
Entries 84
Mean 0.02335
Std Dev 1.113

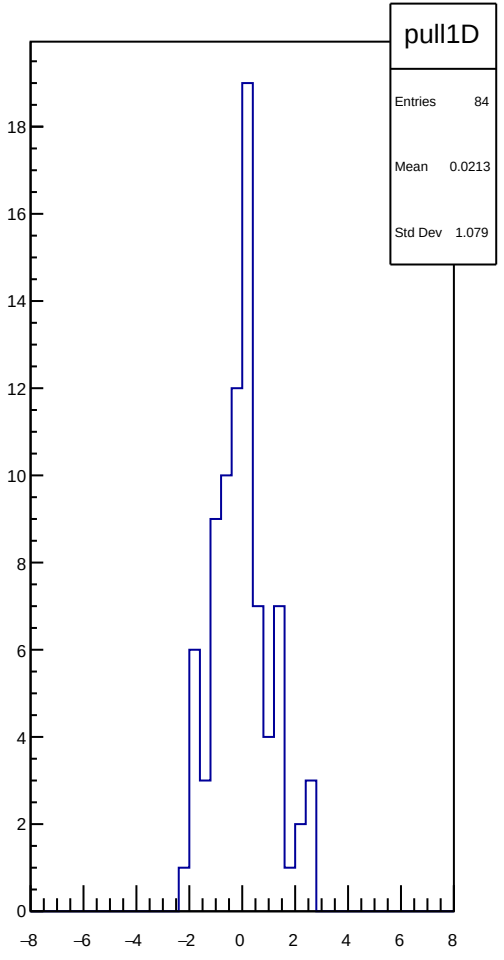

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.96e+04 / 83
p0 75.19 ± 0.05931
100
95
90
85
80
75
70
65
60
55

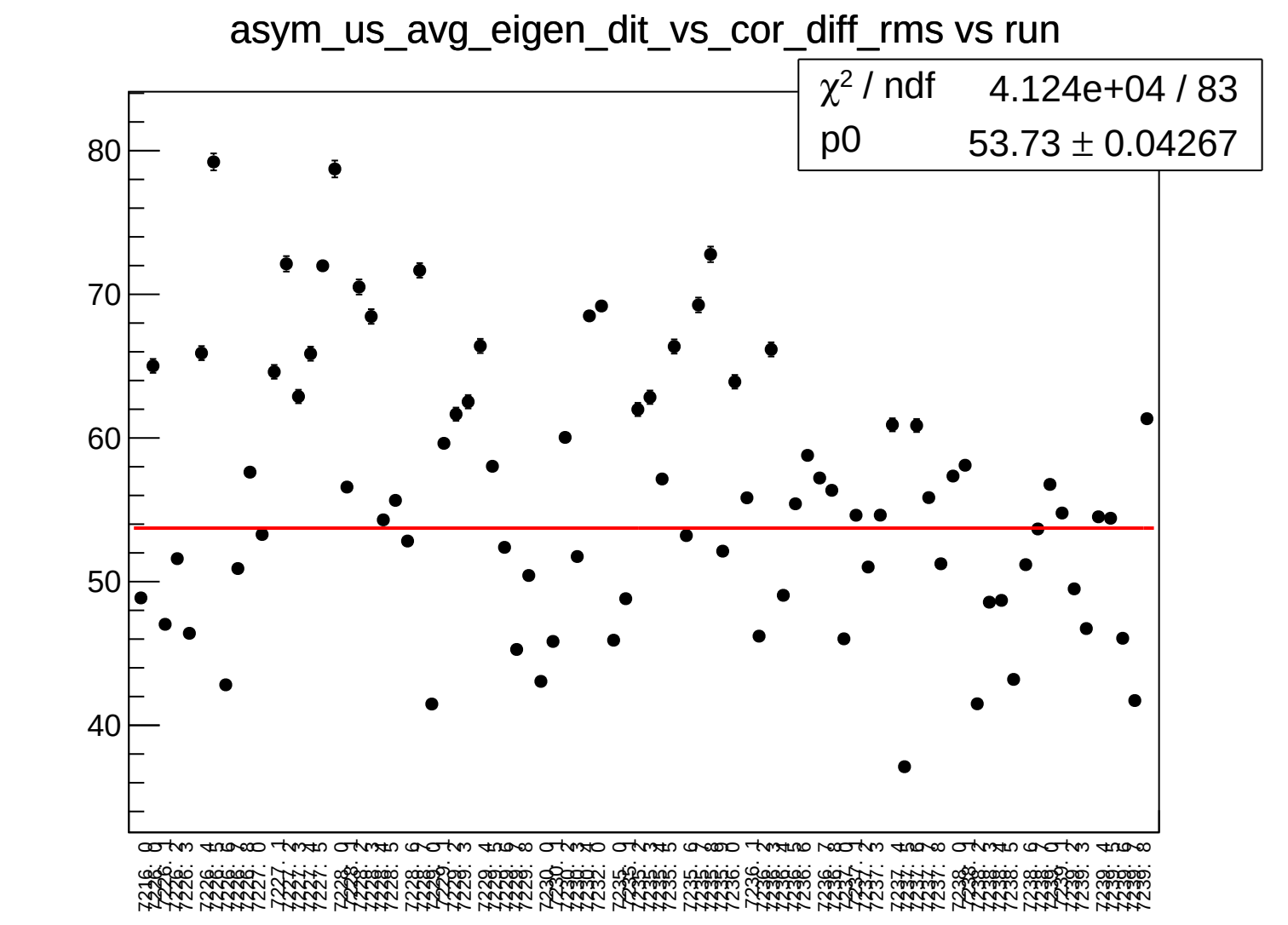

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.9 / 83
p0 2.575e−06 ± 4.109e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 84
Mean −876.8
Std Dev 0
2
1
0
−1
−2
−3

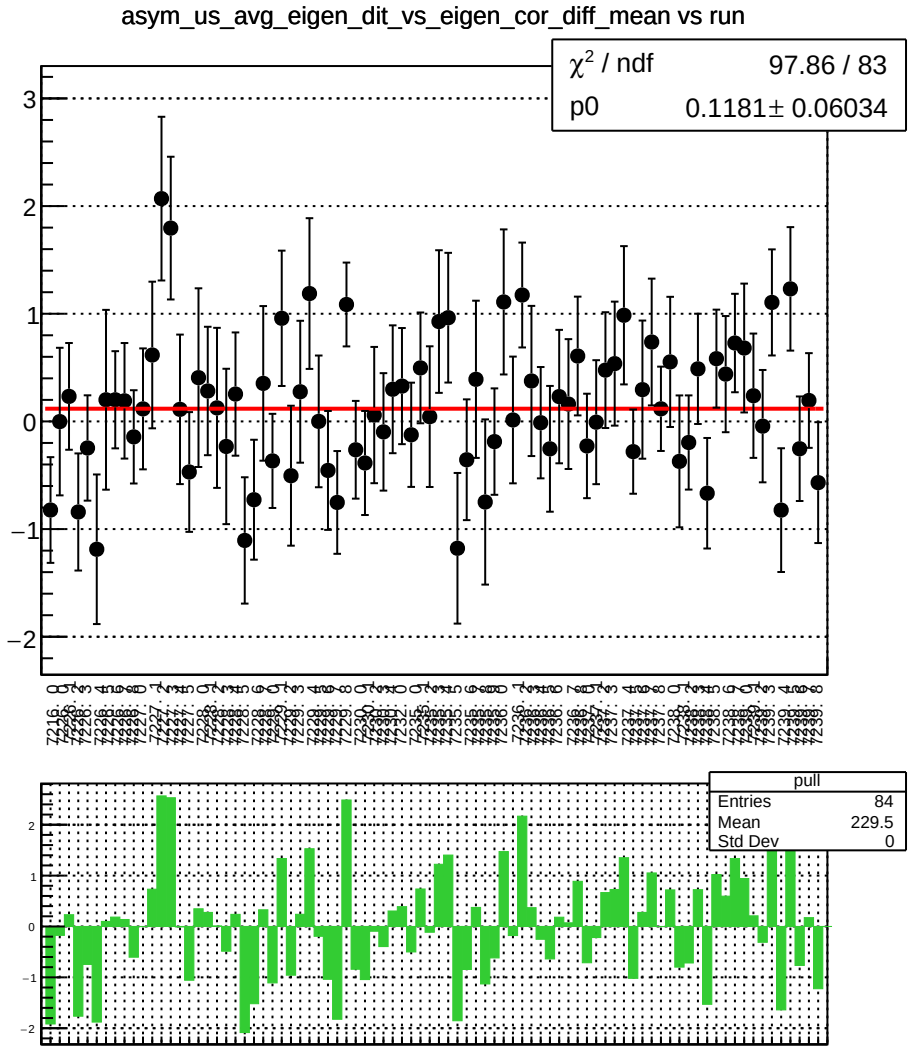

pull1D
Entries 84
Mean −0.0005913
Std Dev 1.101
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

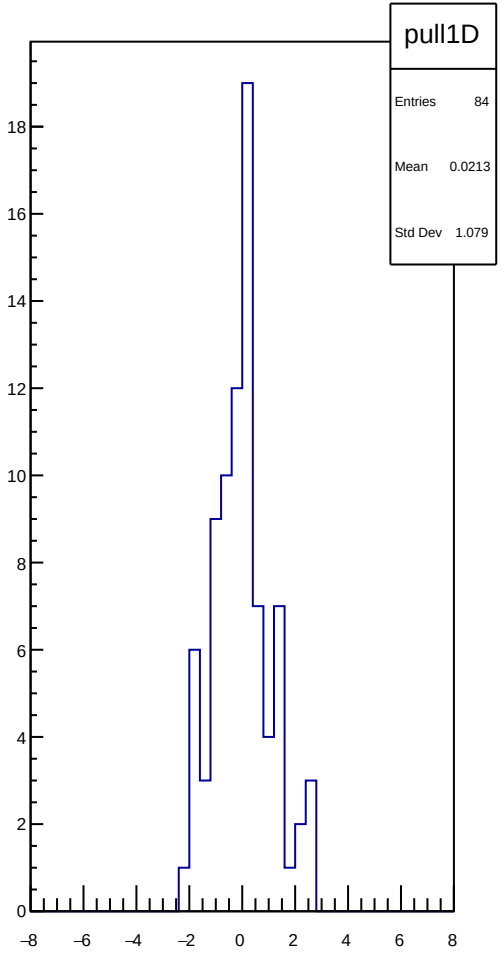

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.976e+04 / 83
p0 0.003683 ± 2.906e−06
0.005
0.0045
0.004
0.0035
0.003

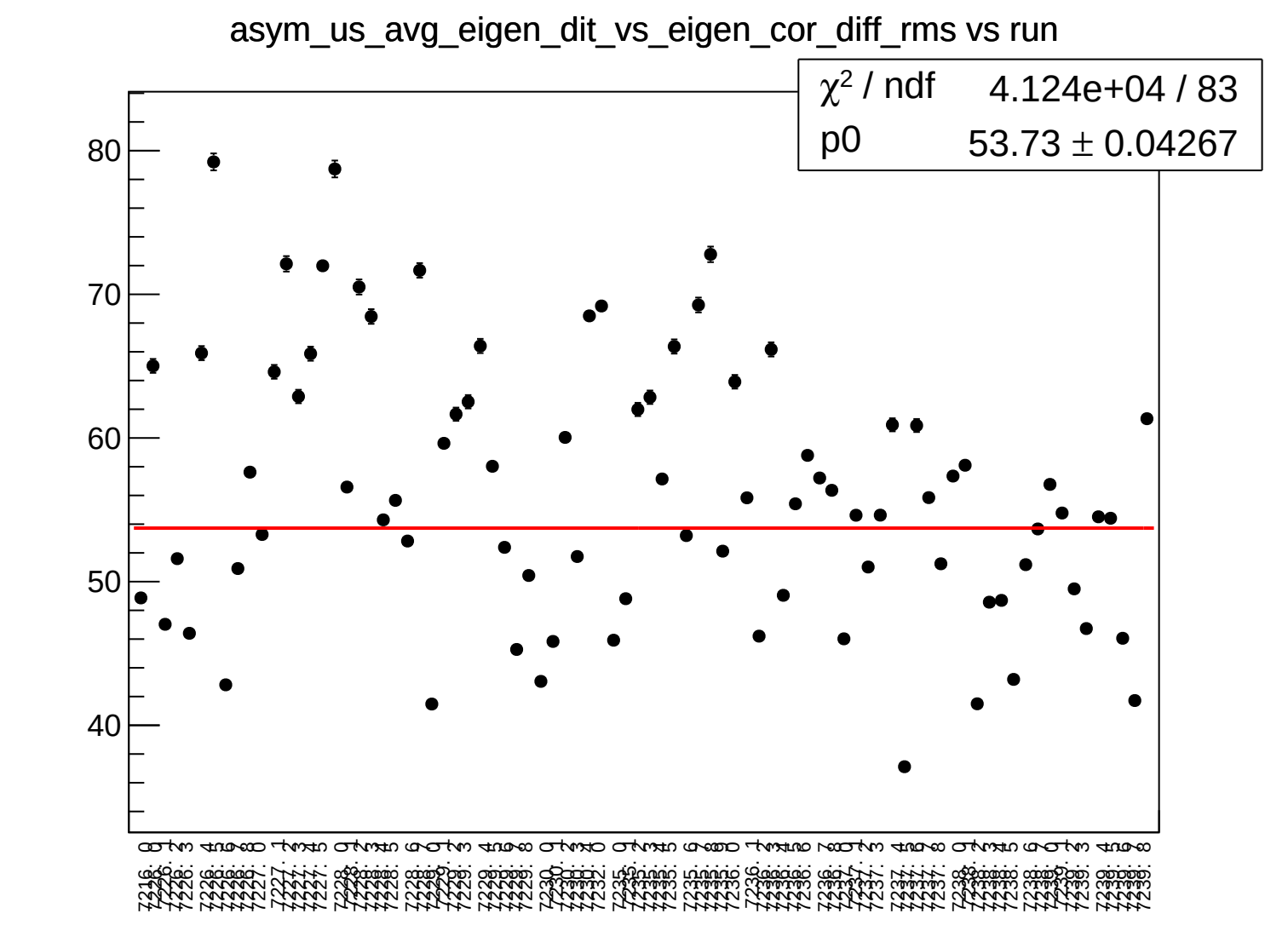

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.86 / 83
p0 0.1181± 0.06034
pull
Entries 84
Mean 229.5
Std Dev 0

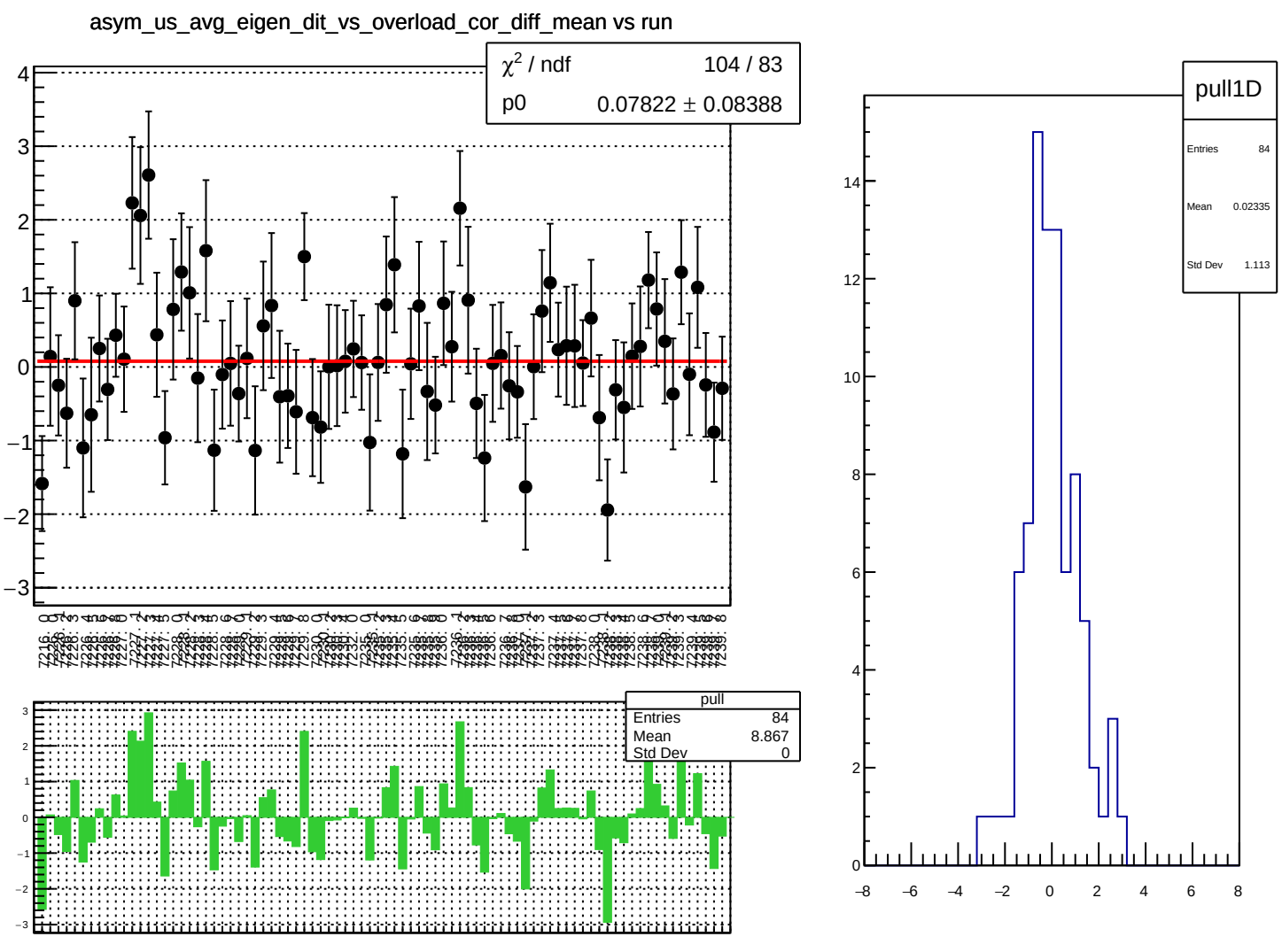

pull1D
Entries 84
Mean 0.0213
Std Dev 1.079

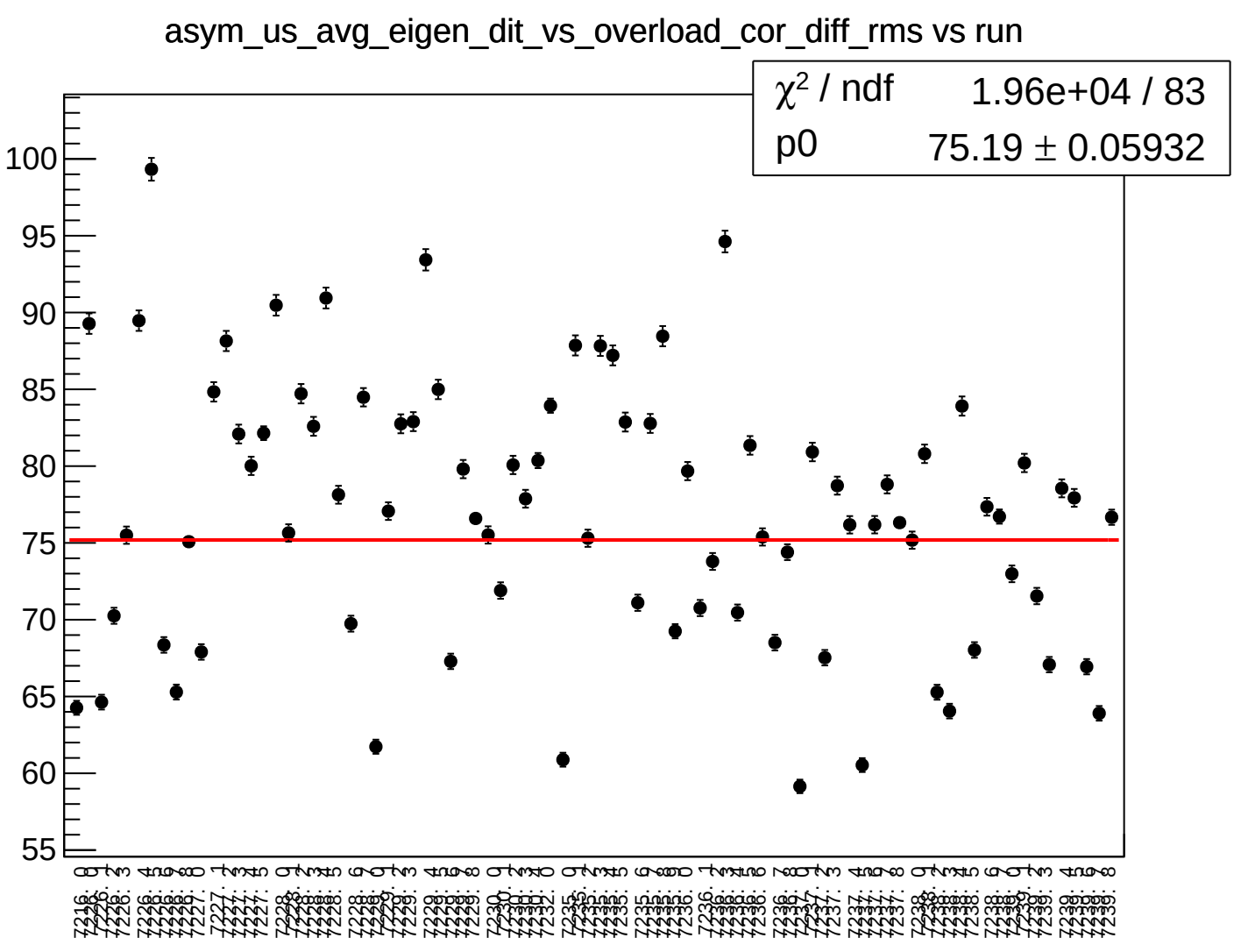

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.124e+04 / 83
p0 53.73 ± 0.04267
80
70
60
50
40

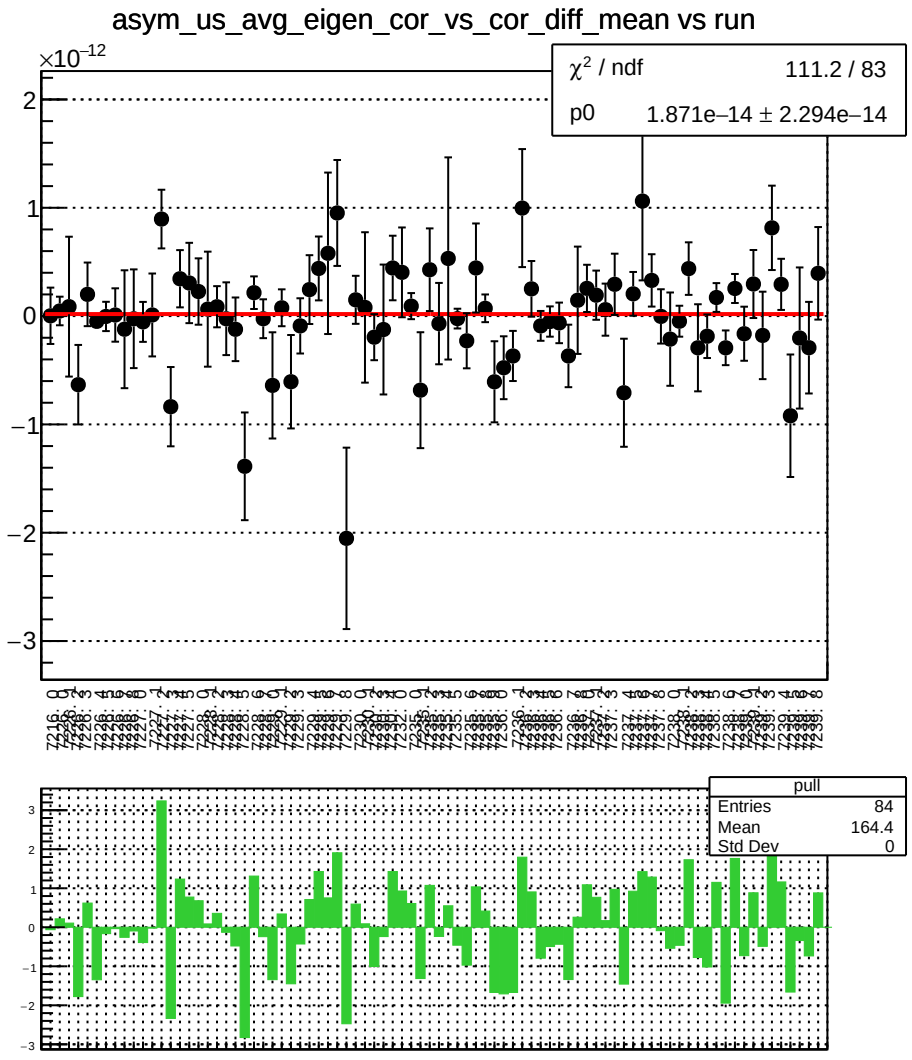

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.86 / 83
p0 0.1181± 0.06034
pull
Entries 84
Mean 229.5
Std Dev 0

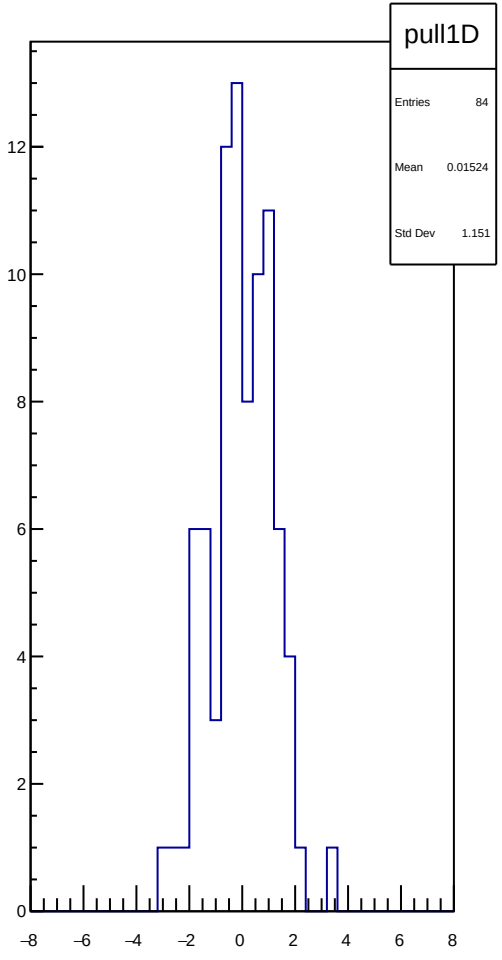

pull1D
Entries 84
Mean 0.0213
Std Dev 1.079

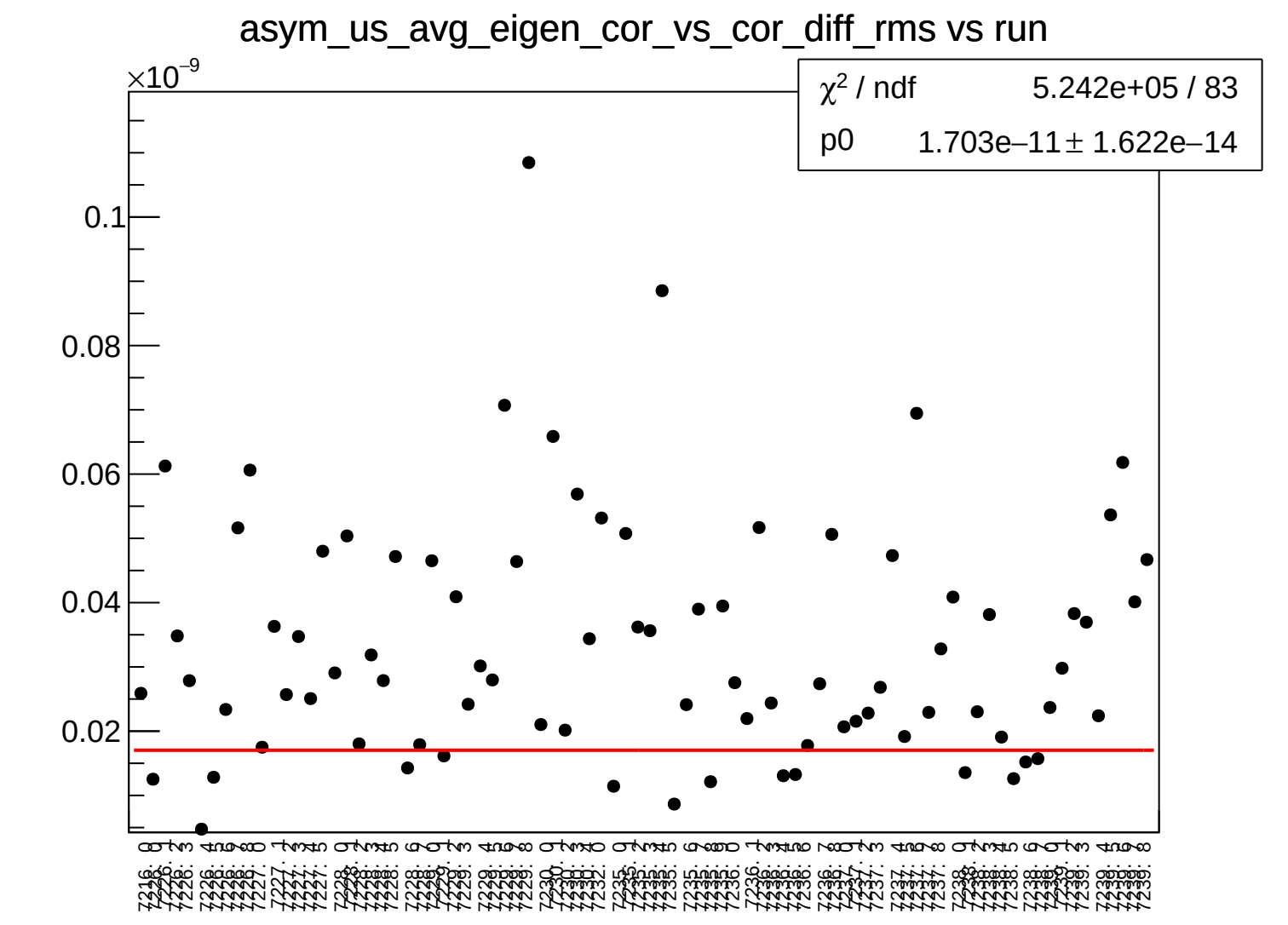

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.124e+04 / 83
p0 53.73 ± 0.04267
80
70
60
50
40

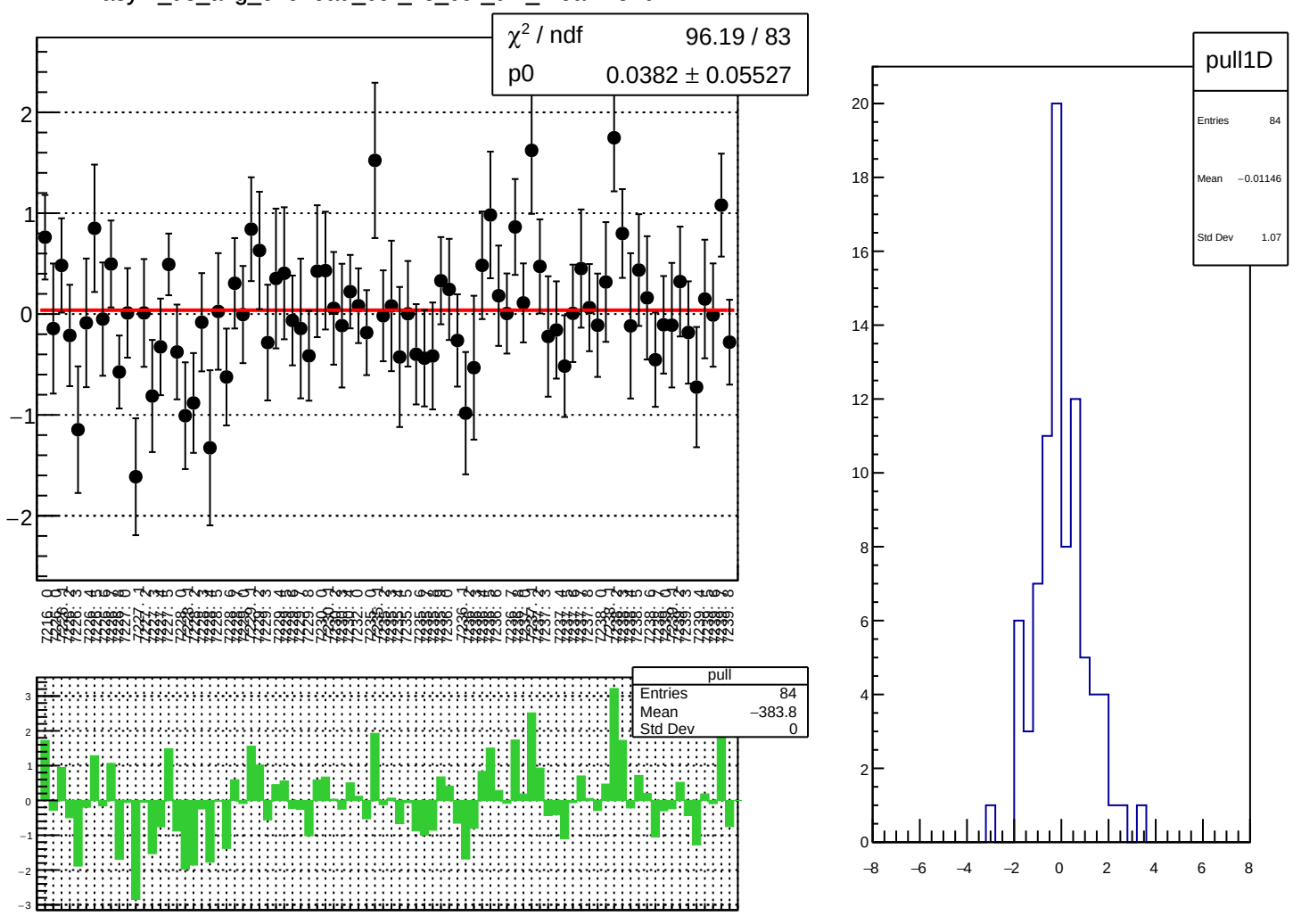

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 104 / 83
p0 0.07822 ± 0.08388
pull
Entries 84
Mean 8.867
Std Dev 0
pull1D
Entries 84
Mean 0.02335
Std Dev 1.113

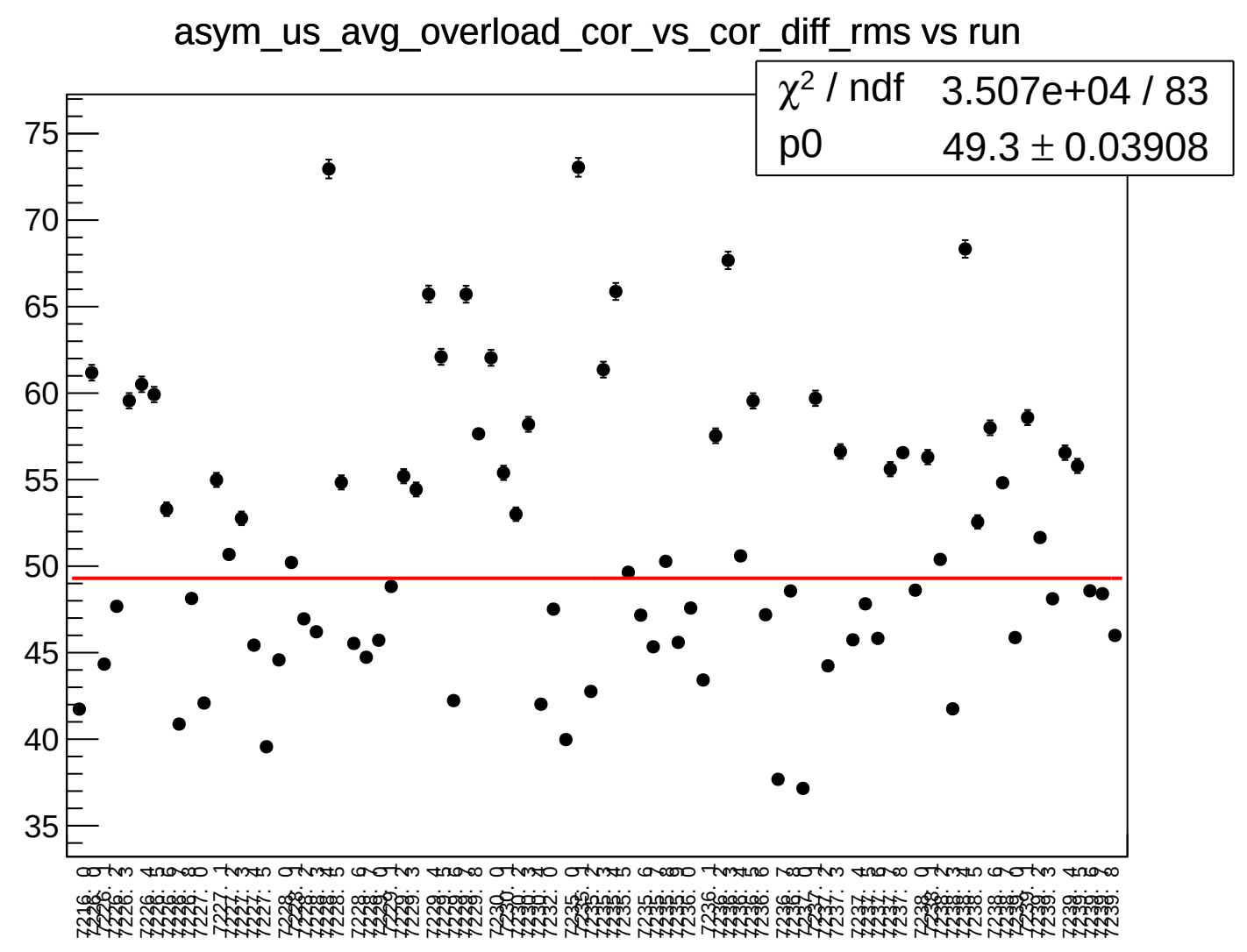

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.96e+04 / 83
p0 75.19 ± 0.05932
100
95
90
85
80
75
70
65
60
55

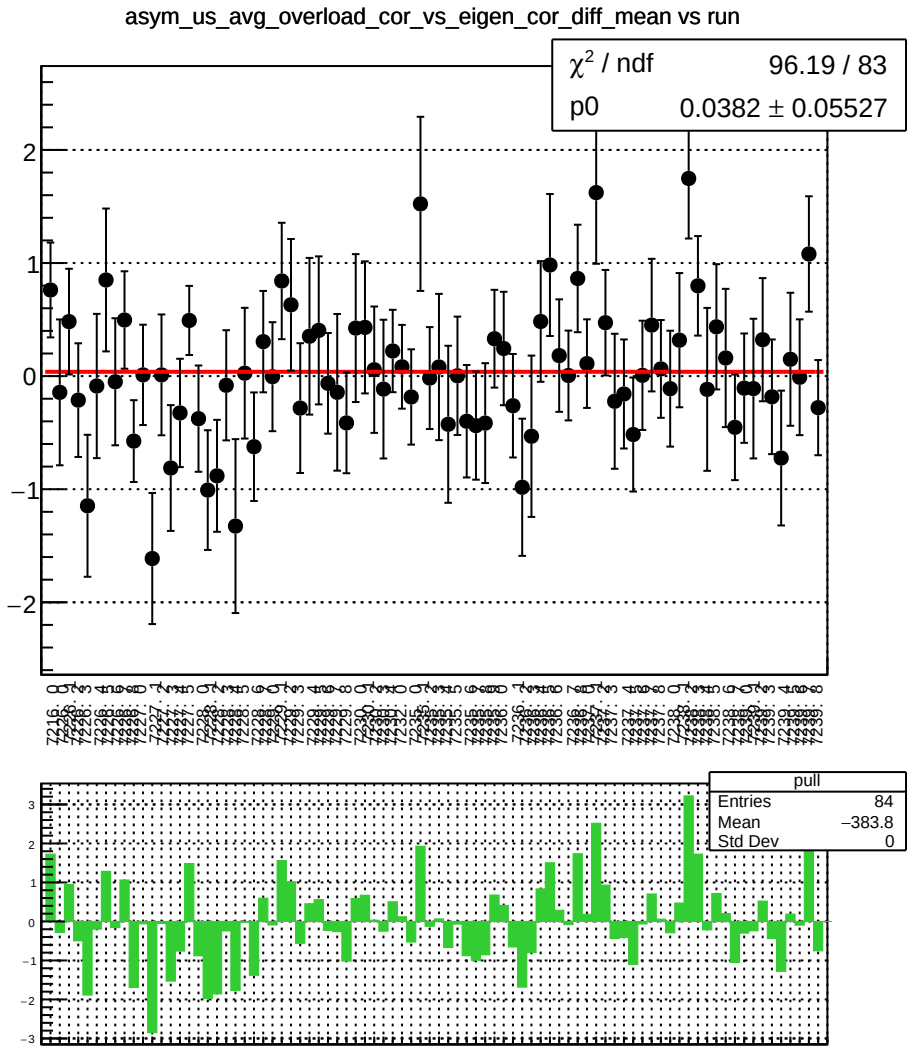

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 111.2 / 83
p0 1.871e−14 ± 2.294e−14
pull
Entries 84
Mean 164.4
Std Dev 0

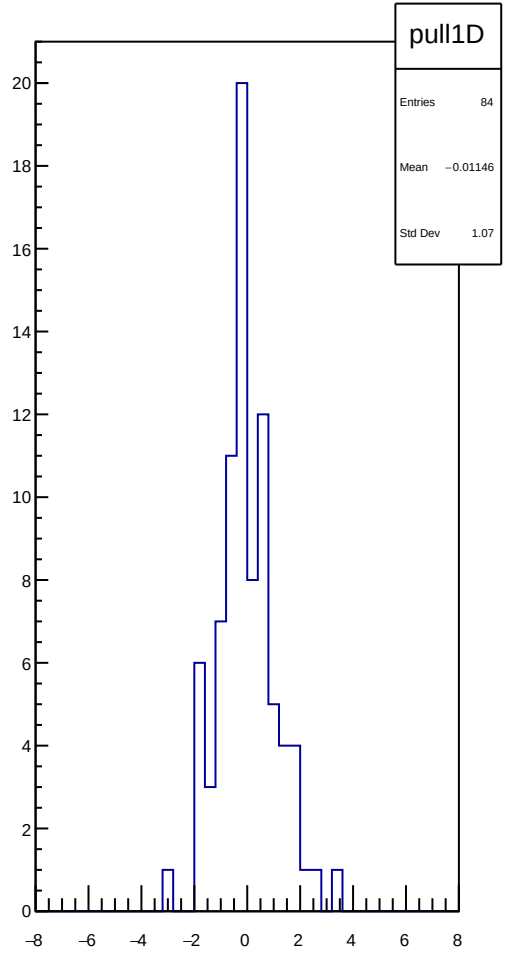

pull1D
Entries 84
Mean 0.01524
Std Dev 1.151

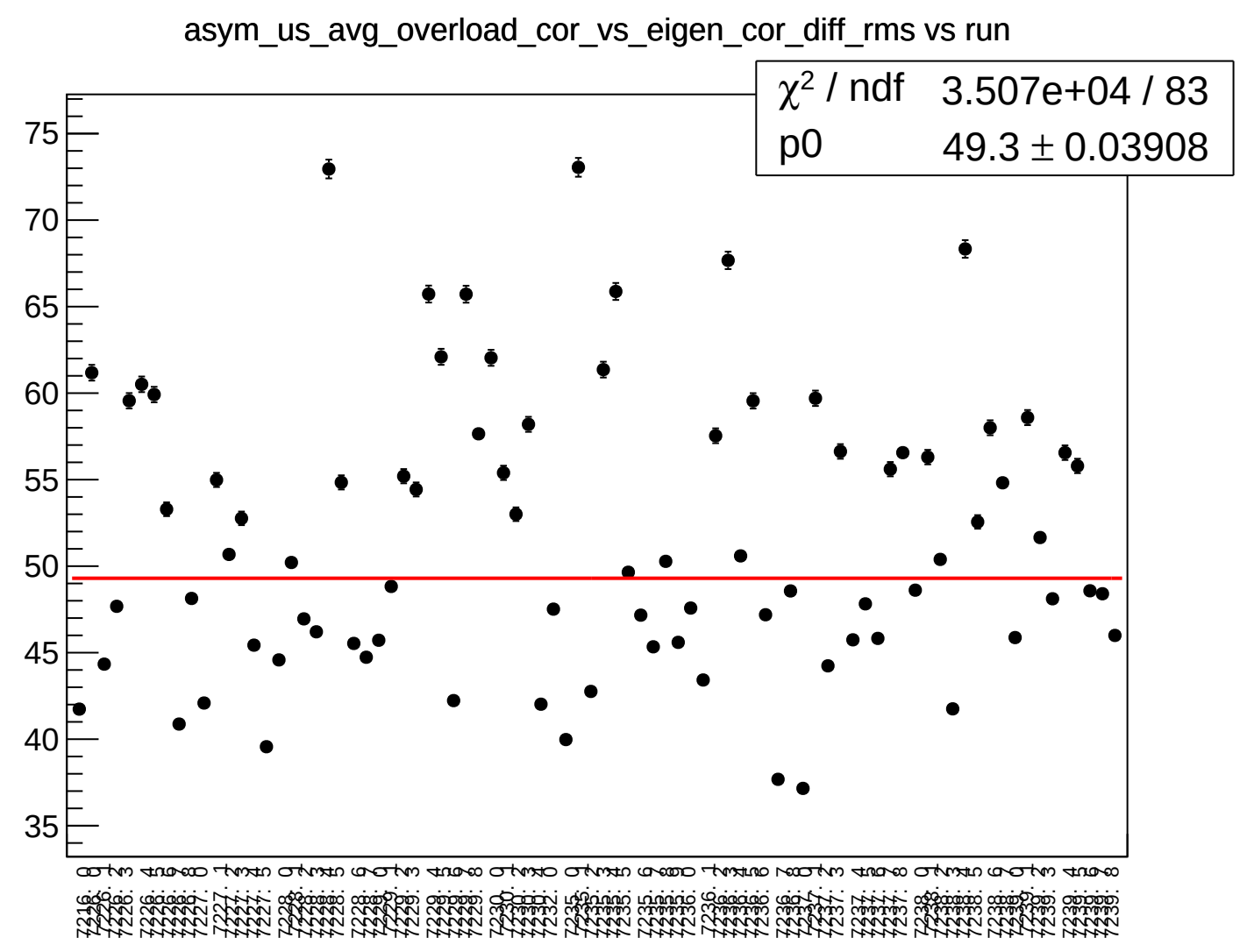

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.242e+05 / 83
p0 1.703e−11 ± 1.622e−14
0.1
0.08
0.06
0.04
0.02

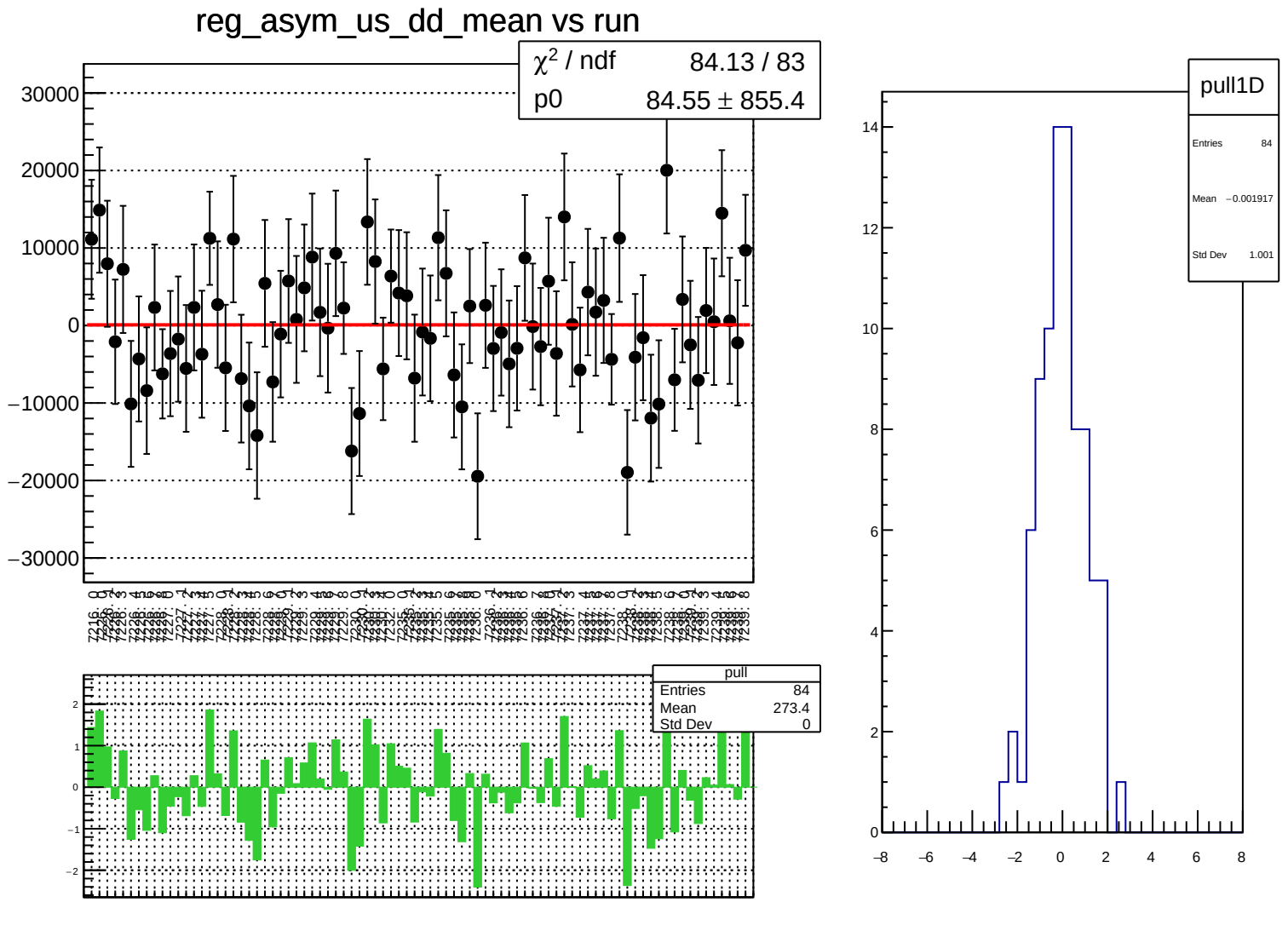

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 96.19 / 83
p0 0.0382 ± 0.05527
pull
Entries 84
Mean −383.8
Std Dev 0
pull1D
Entries 84
Mean −0.01146
Std Dev 1.07

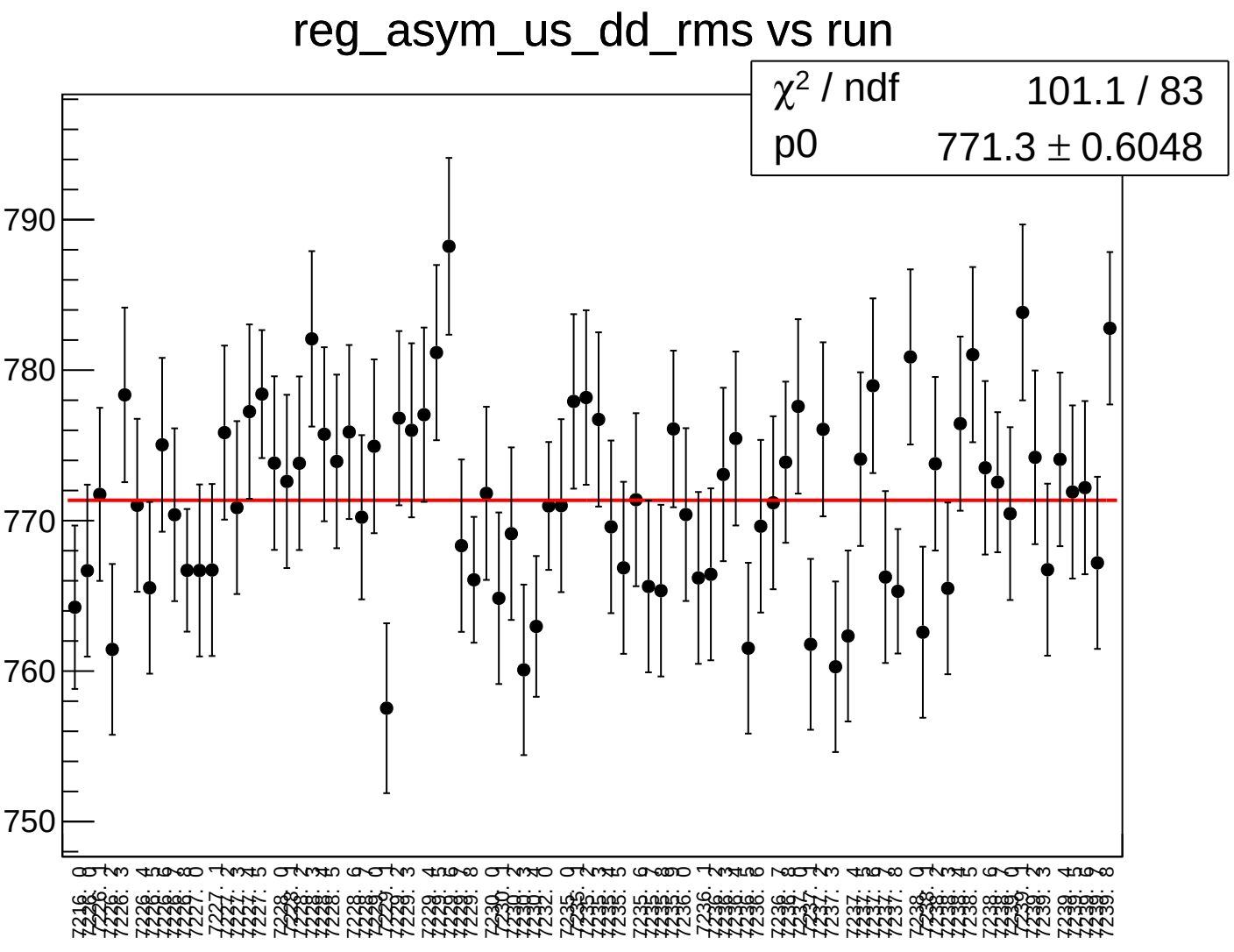

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 3.507e+04 / 83
p0 49.3 ± 0.03908
75
70
65
60
55
50
45
40
35

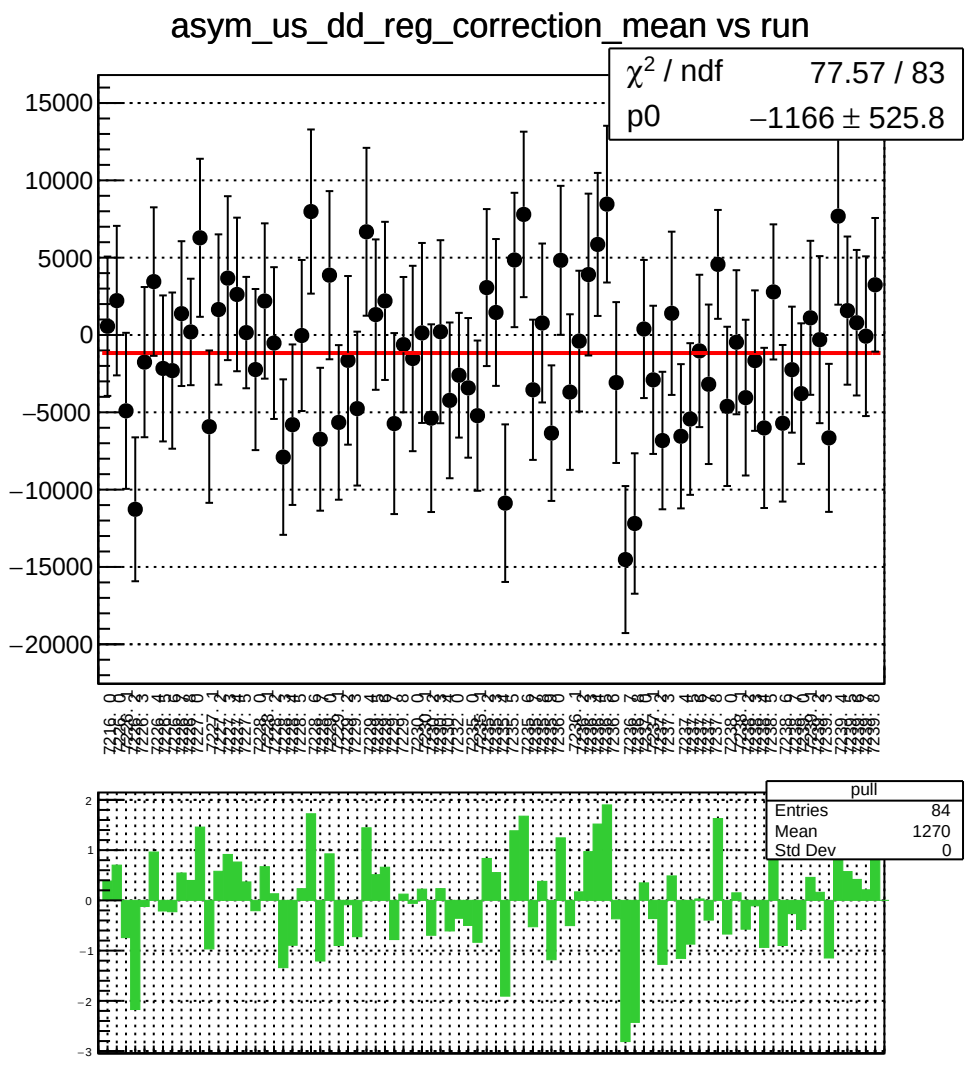

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.19 / 83
p0 0.0382 ± 0.05527
pull
Entries 84
Mean −383.8
Std Dev 0

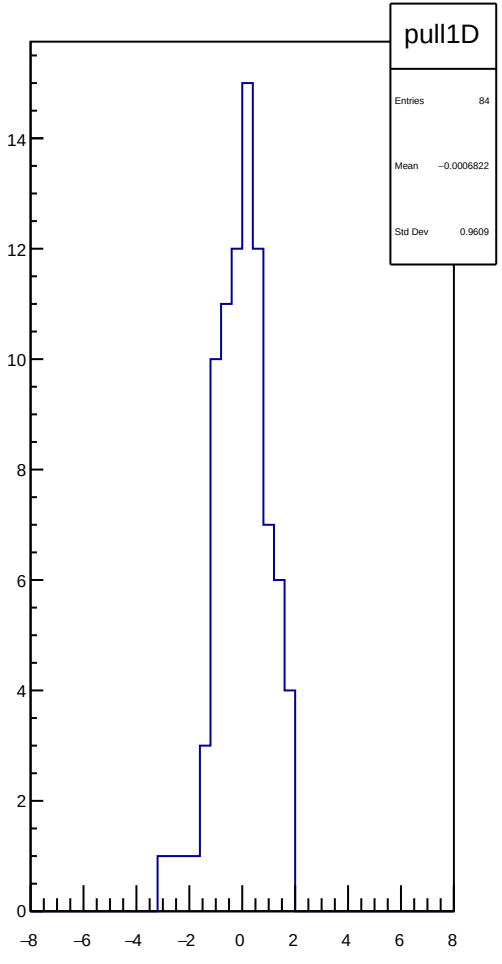

pull1D
Entries 84
Mean −0.01146
Std Dev 1.07

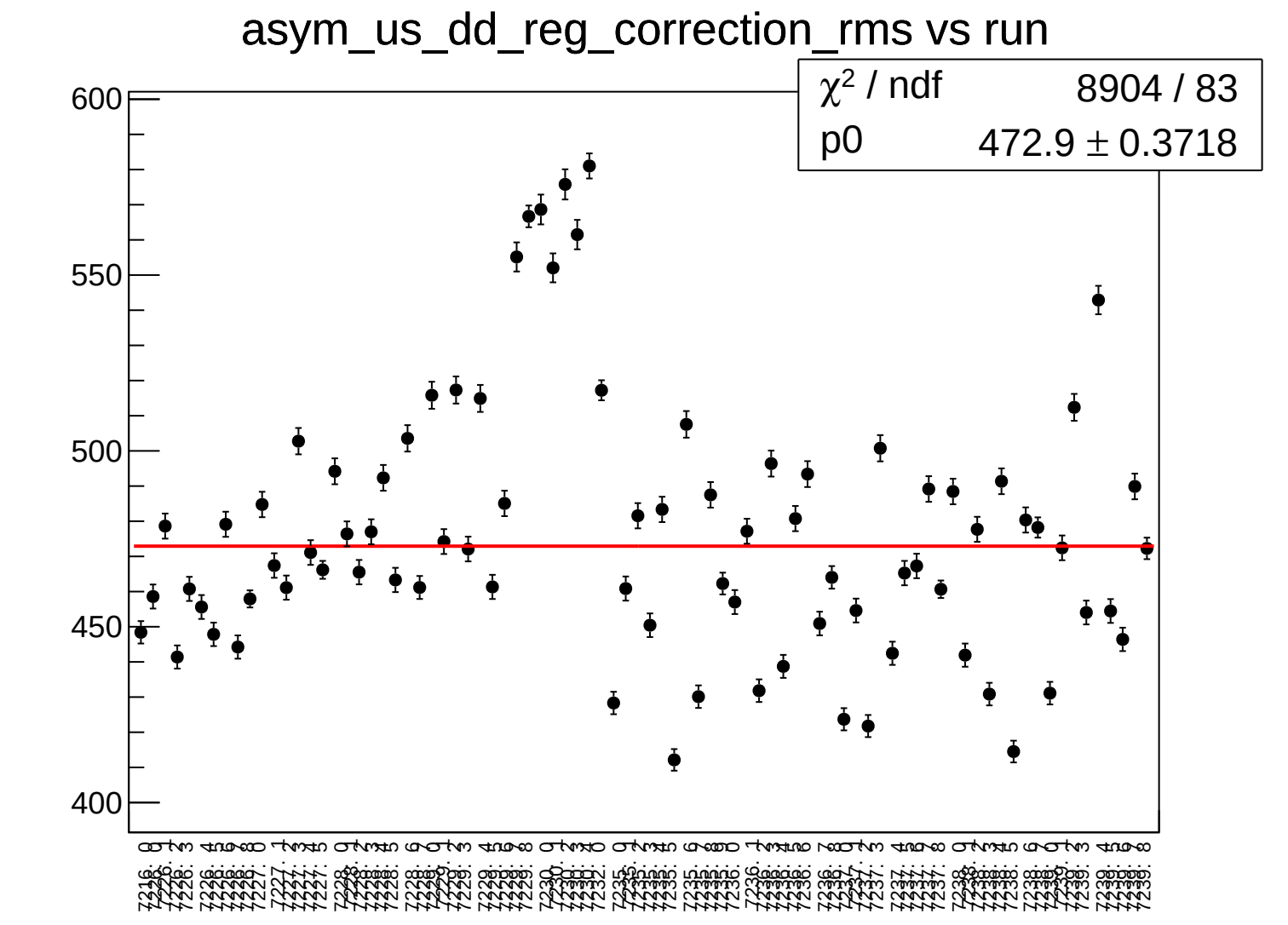

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 3.507e+04 / 83
p0 49.3 ± 0.03908
75
70
65
60
55
50
45
40
35

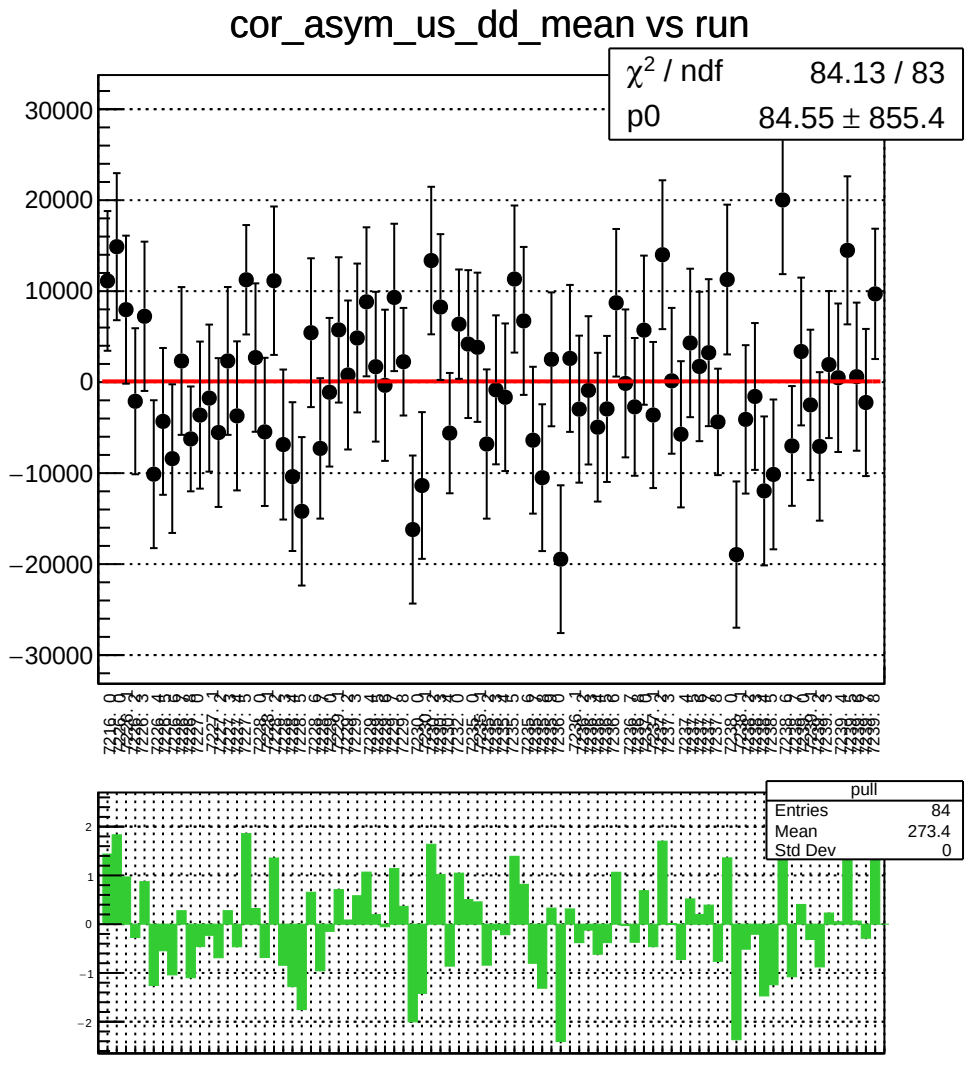

reg_asym_us_dd_mean vs run
χ² / ndf 84.13 / 83
p0 84.55 ± 855.4
pull
Entries 84
Mean 273.4
Std Dev 0
pull1D
Entries 84
Mean −0.001917
Std Dev 1.001

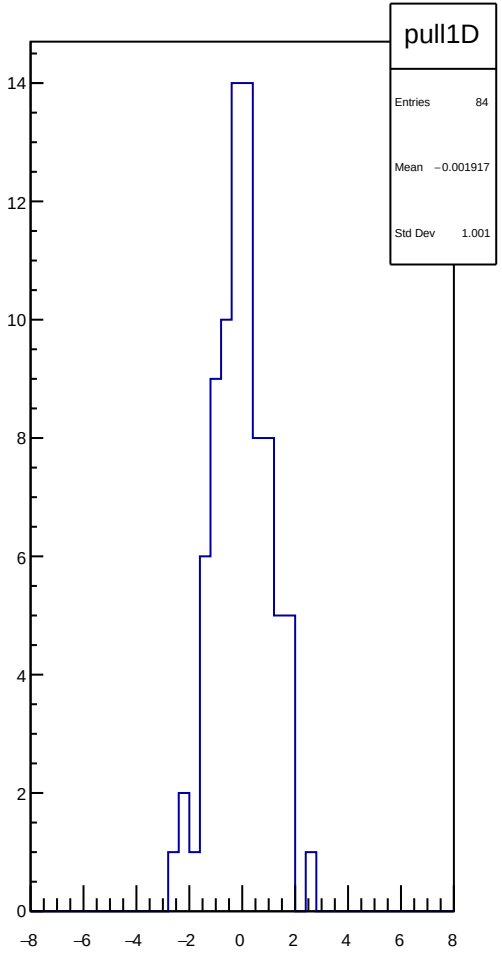

reg_asym_us_dd_rms vs run
χ² / ndf 101.1 / 83
p0 771.3 ± 0.6048
790
780
770
760
750

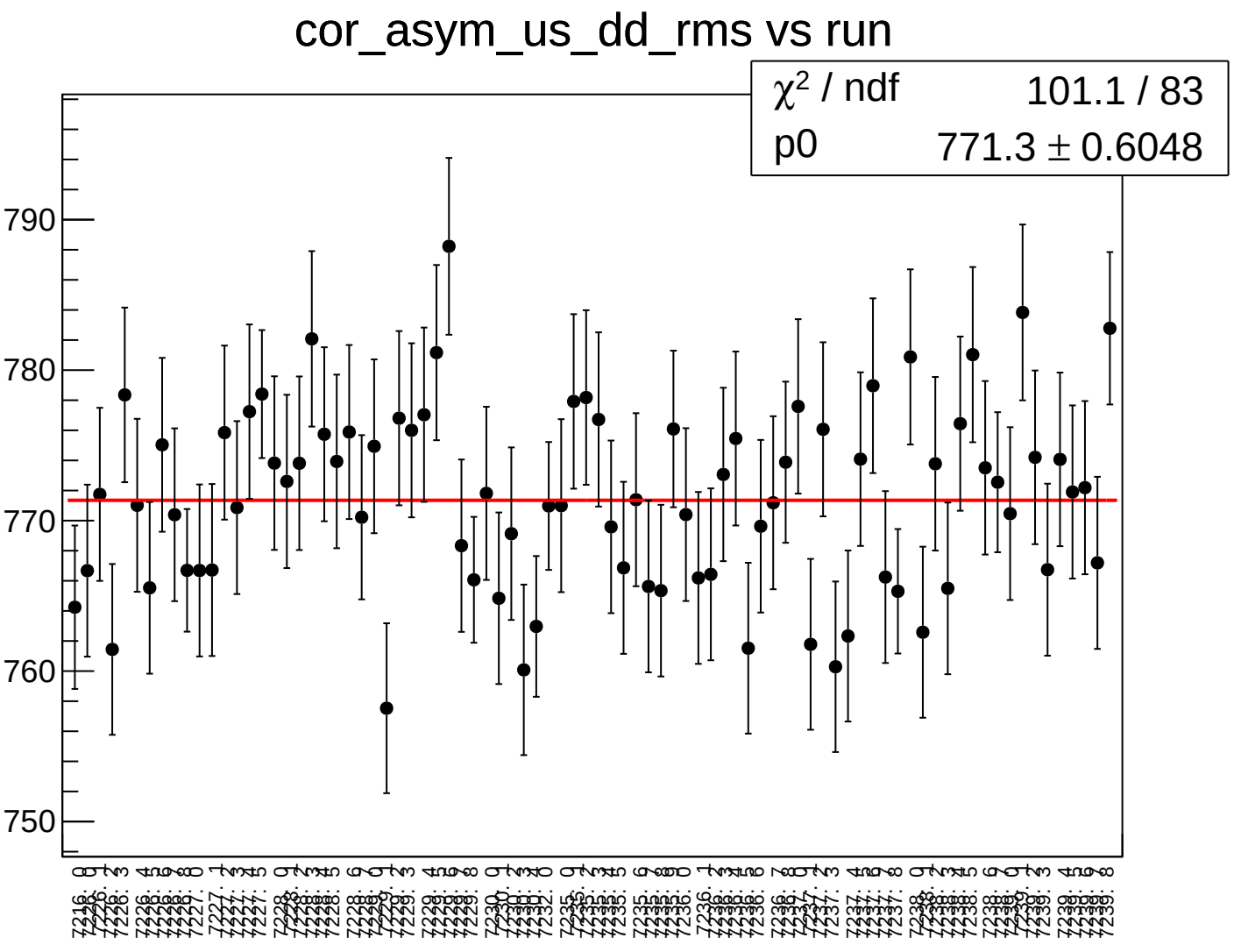

asym_us_dd_reg_correction_mean vs run
χ² / ndf 77.57 / 83
p0 −1166 ± 525.8
pull
Entries 84
Mean 1270
Std Dev 0

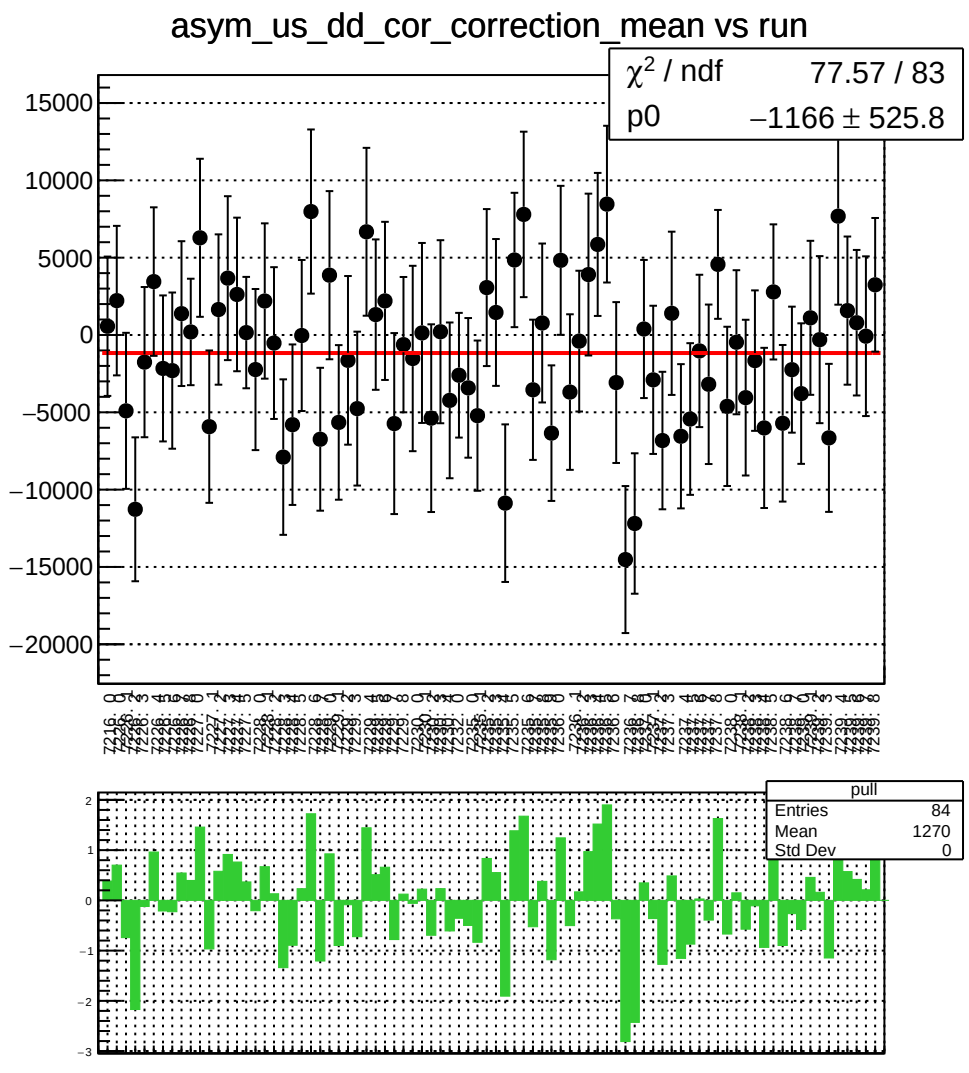

pull1D
Entries 84
Mean −0.0006822
Std Dev 0.9609

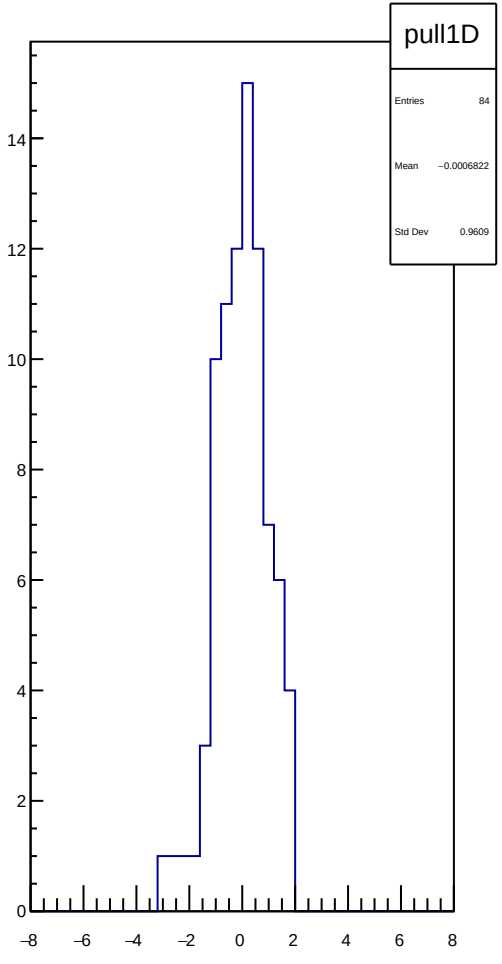

asym_us_dd_reg_correction_rms vs run
χ² / ndf 8904 / 83
p0 472.9 ± 0.3718
600
550
500
450
400

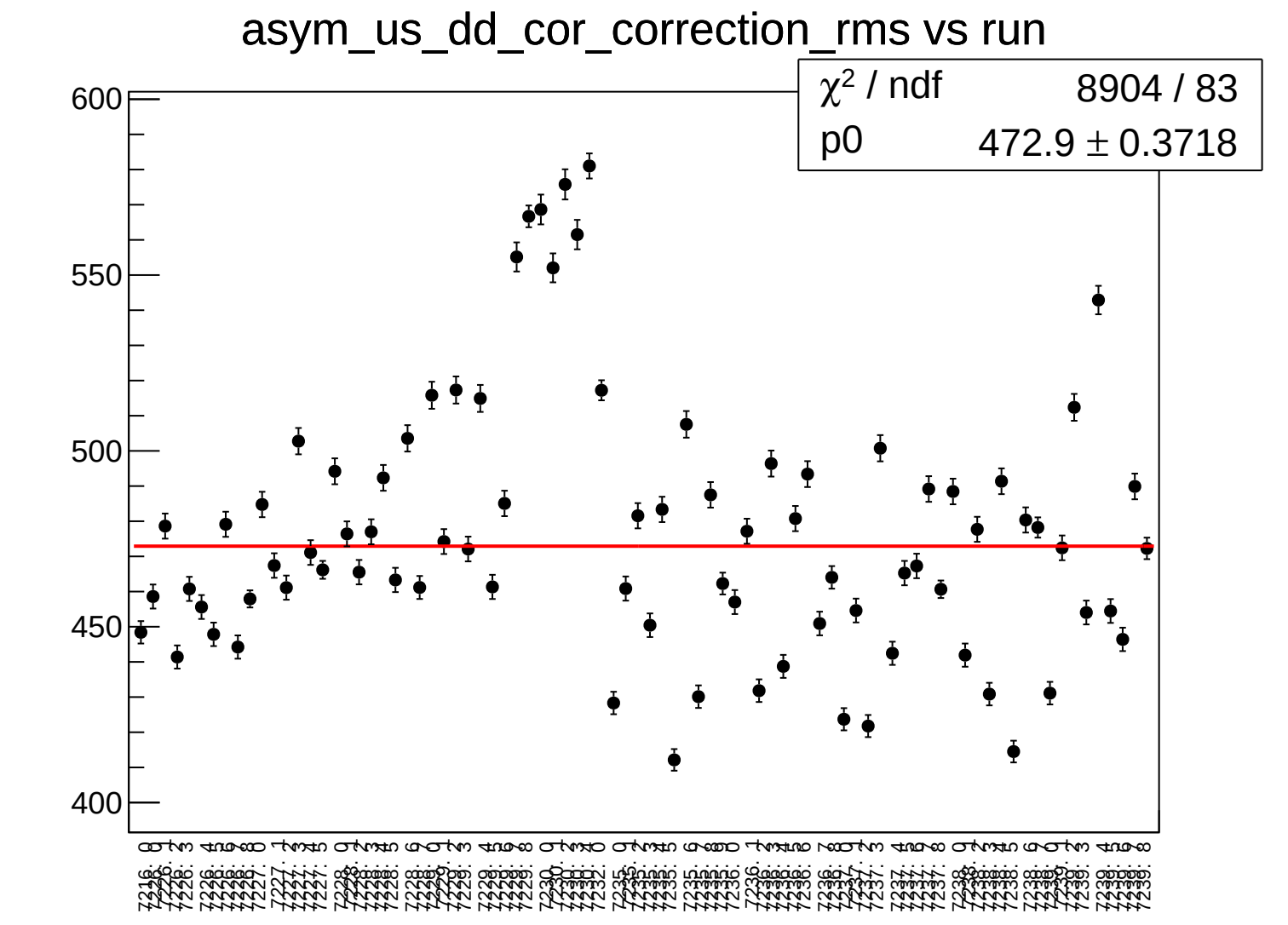

cor_asym_us_dd_mean vs run
χ² / ndf 84.13 / 83
p0 84.55 ± 855.4
pull
Entries 84
Mean 273.4
Std Dev 0

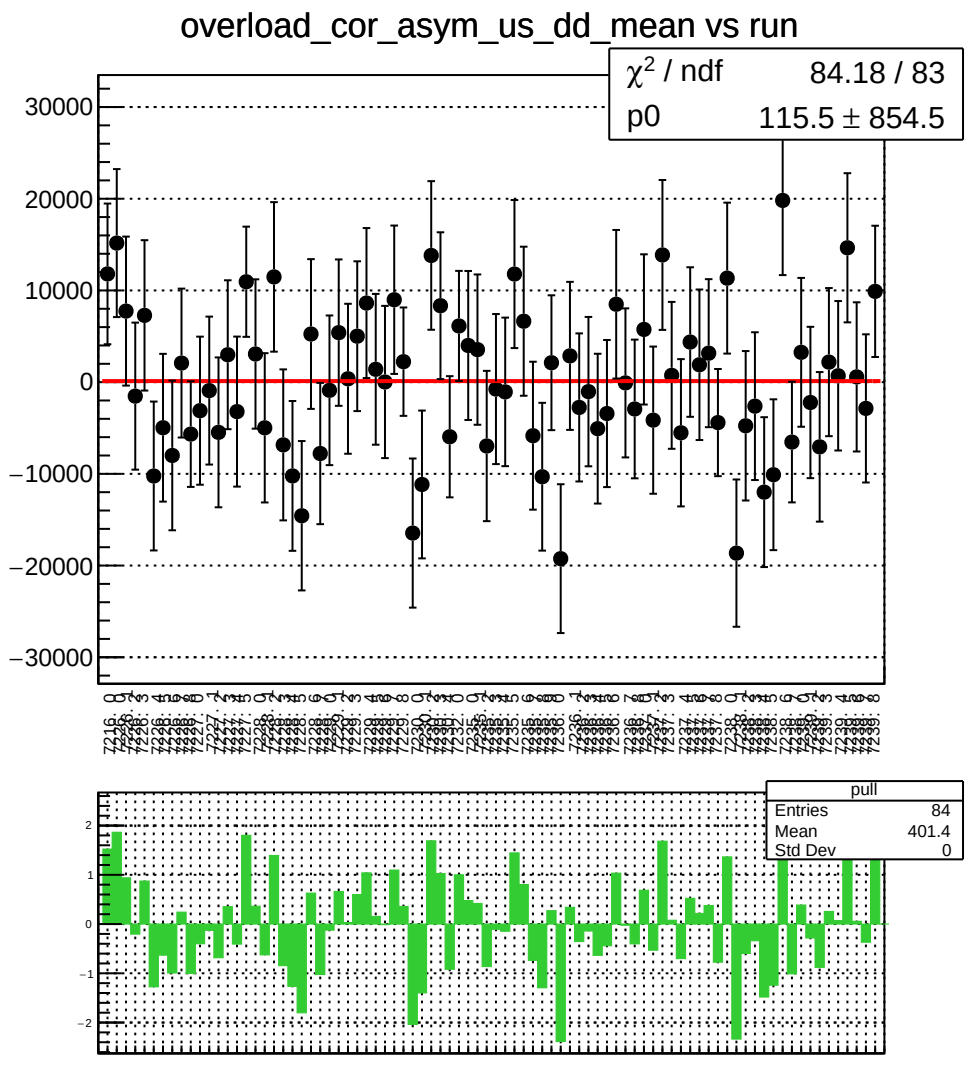

pull1D
Entries 84
Mean −0.001917
Std Dev 1.001

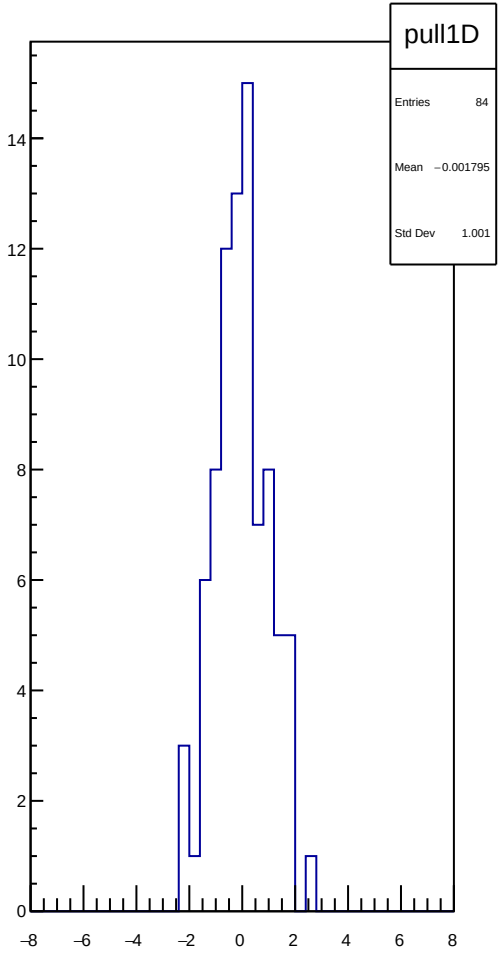

cor_asym_us_dd_rms vs run
χ² / ndf 101.1 / 83
p0 771.3 ± 0.6048
790
780
770
760
750

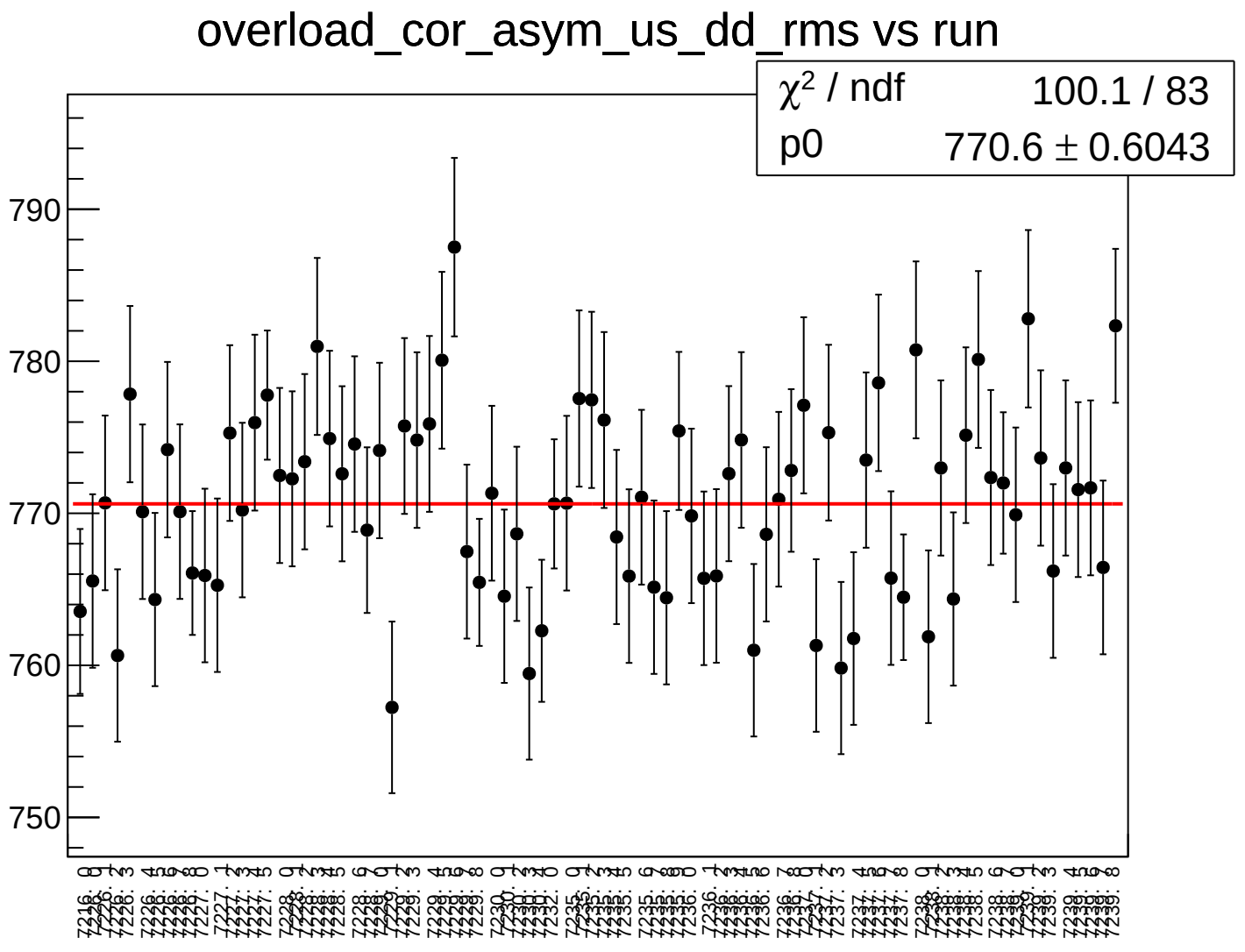

asym_us_dd_cor_correction_mean vs run
χ² / ndf 77.57 / 83
p0 −1166 ± 525.8
pull
Entries 84
Mean 1270
Std Dev 0

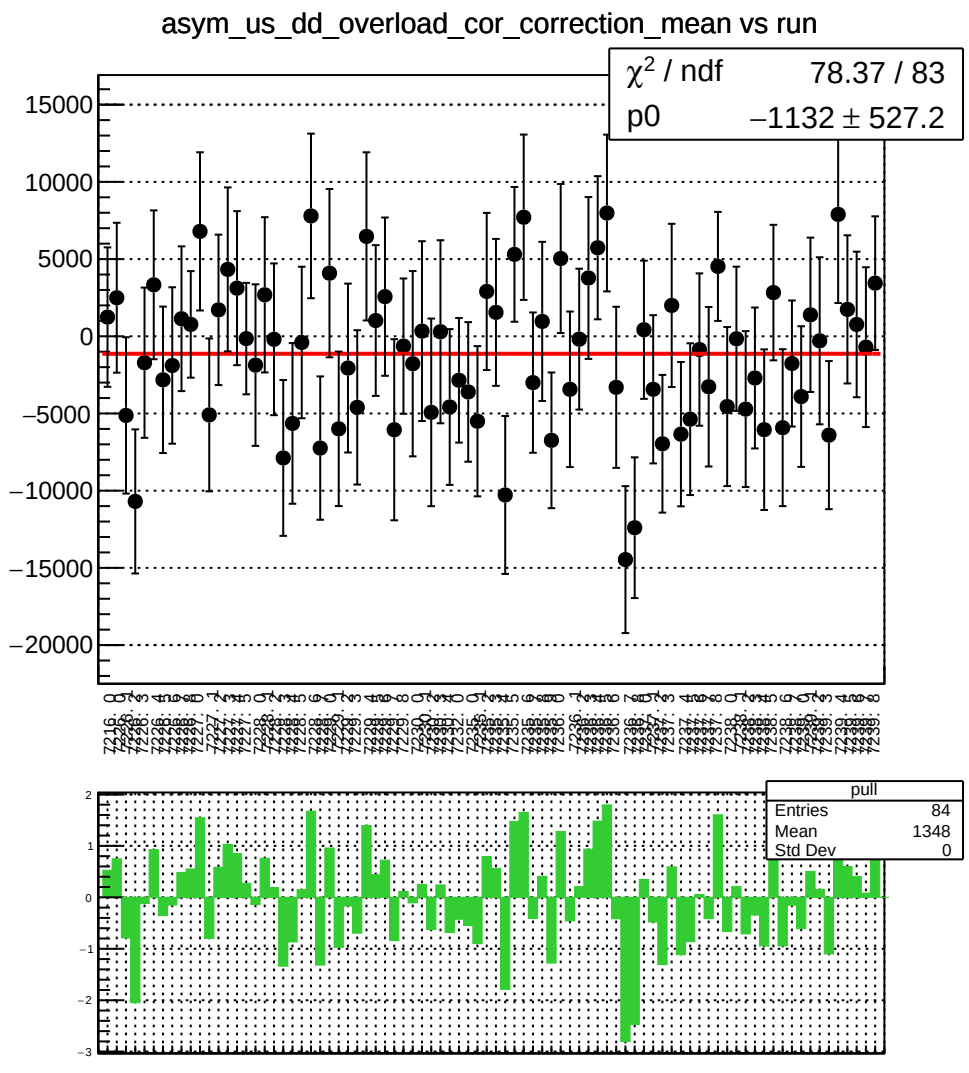

pull1D
Entries 84
Mean −0.0006822
Std Dev 0.9609

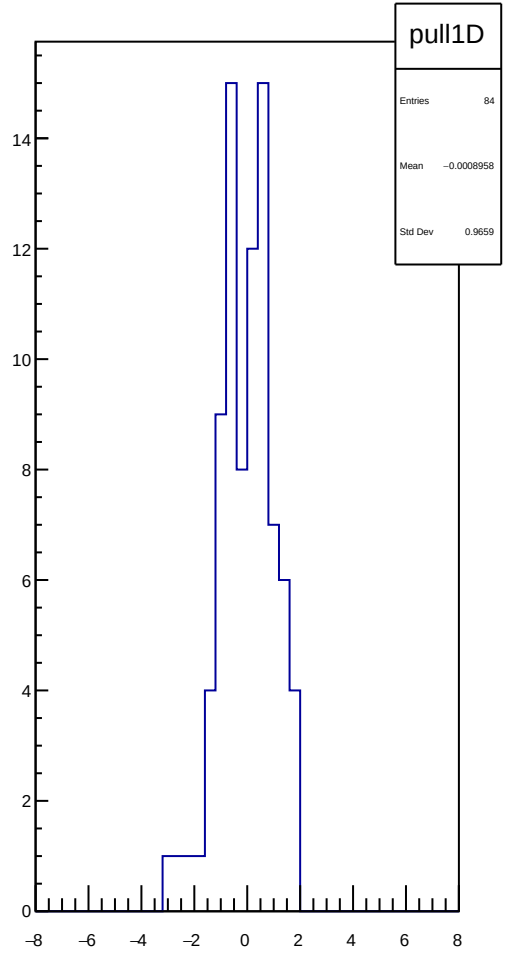

asym_us_dd_cor_correction_rms vs run
χ² / ndf 8904 / 83
p0 472.9 ± 0.3718
600
550
500
450
400

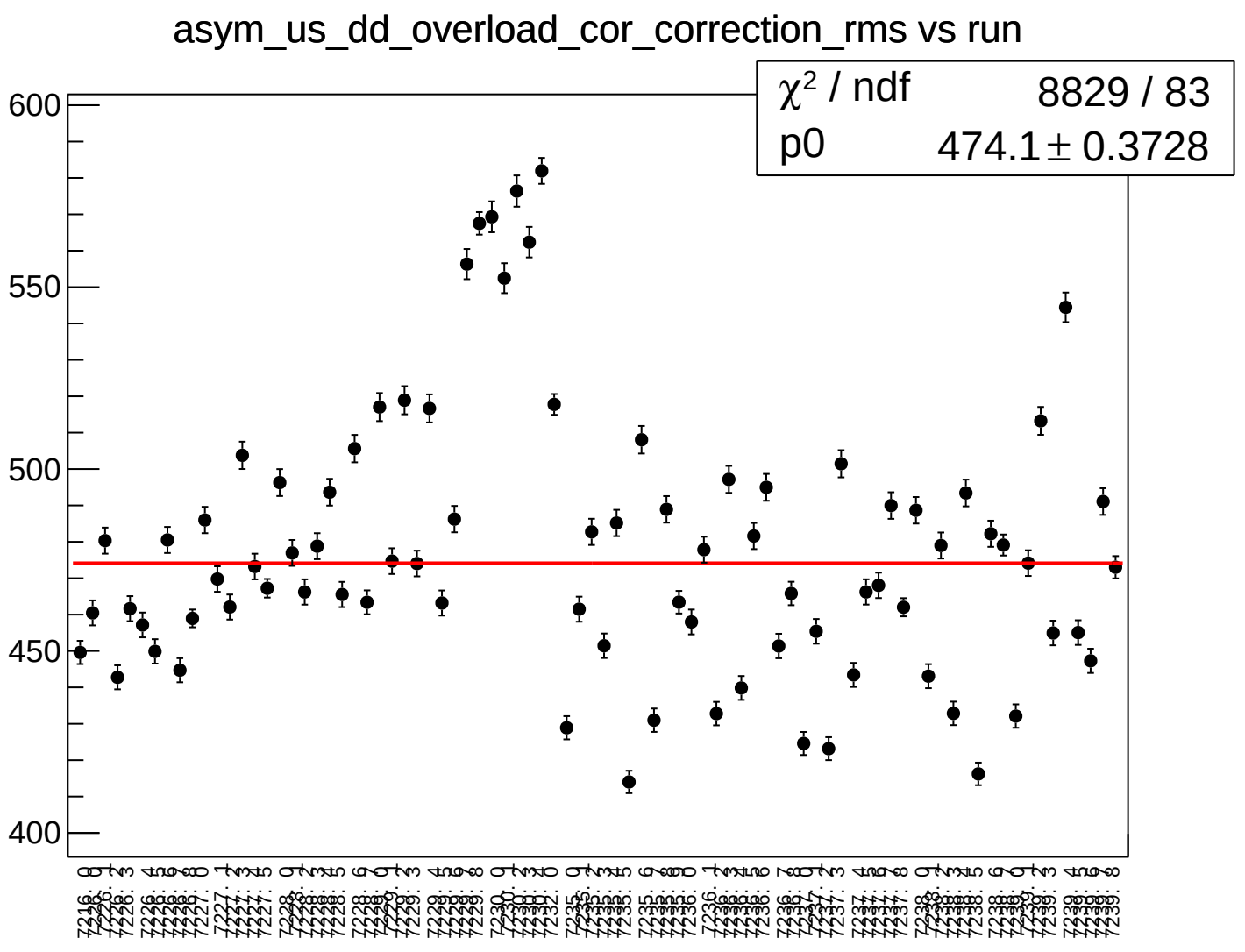

overload_cor_asym_us_dd_mean vs run
χ² / ndf 84.18 / 83
p0 115.5 ± 854.5
pull
Entries 84
Mean 401.4
Std Dev 0

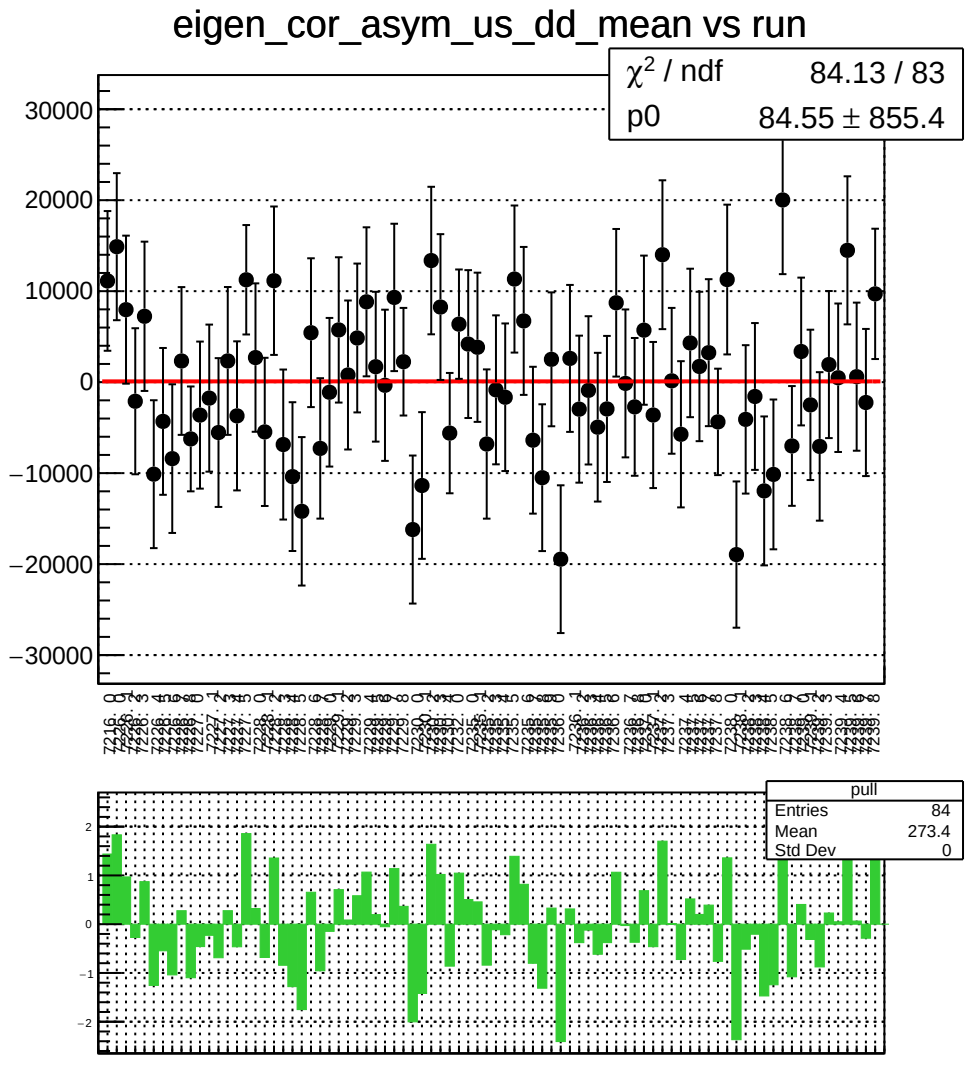

pull1D
Entries 84
Mean −0.001795
Std Dev 1.001

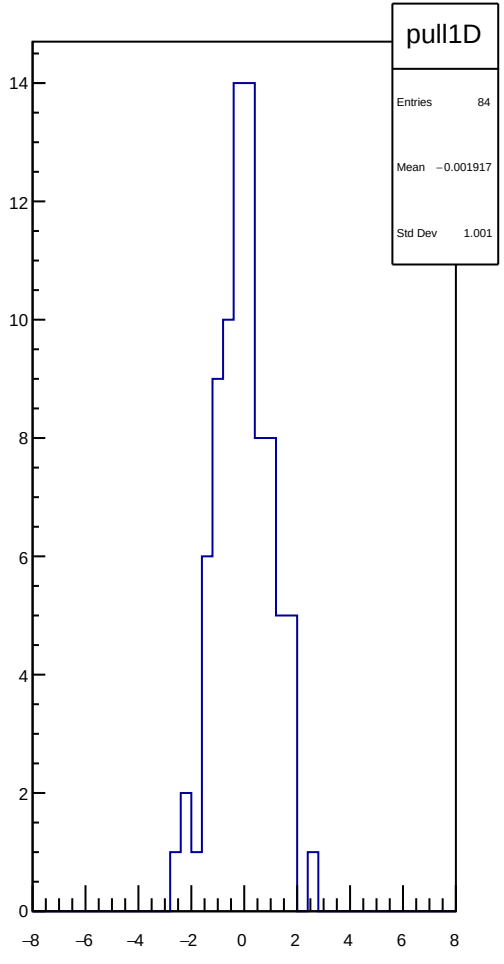

overload_cor_asym_us_dd_rms vs run
χ² / ndf 100.1 / 83
p0 770.6 ± 0.6043
790
780
770
760
750

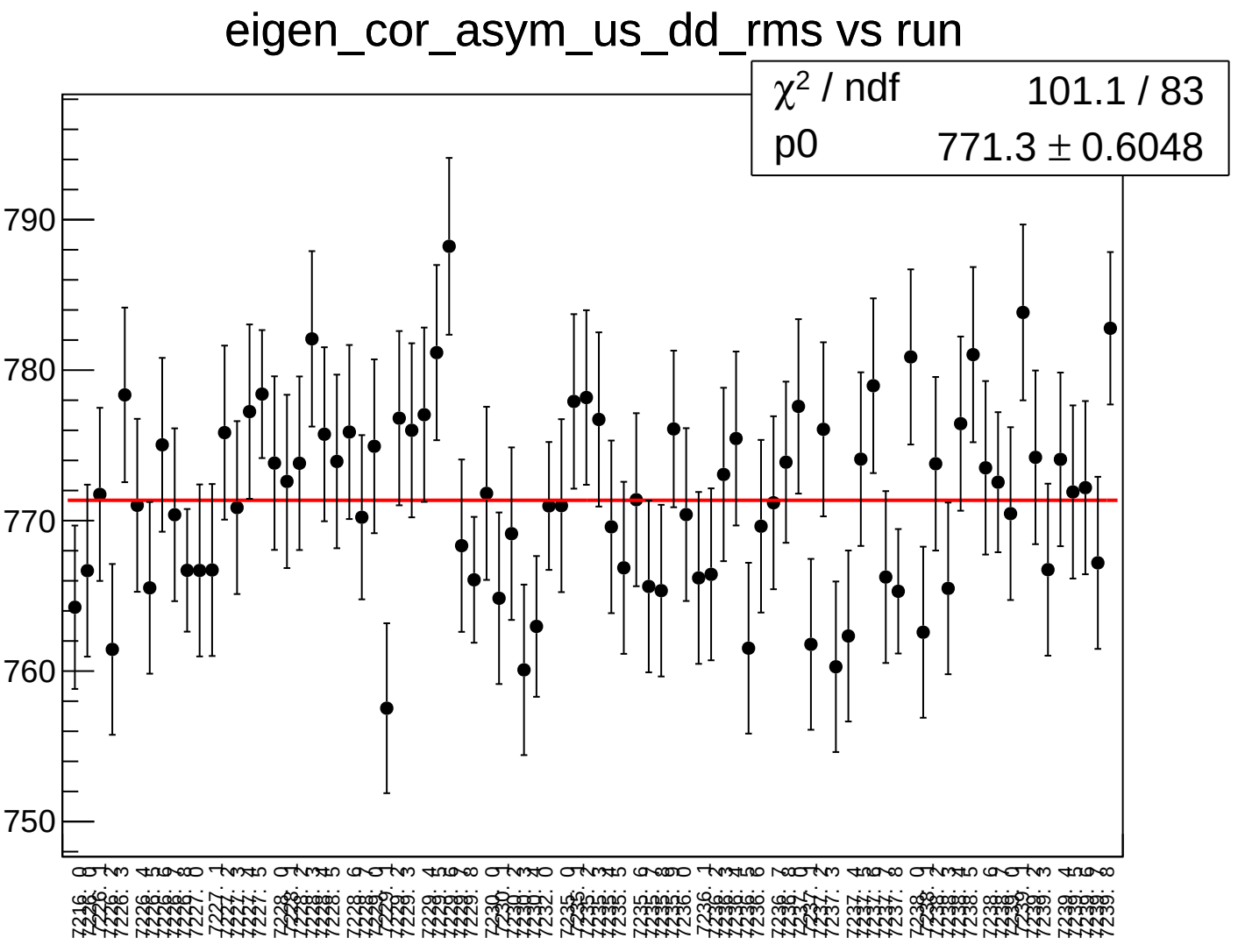

asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 78.37 / 83
p0 −1132 ± 527.2
pull
Entries 84
Mean 1348
Std Dev 0

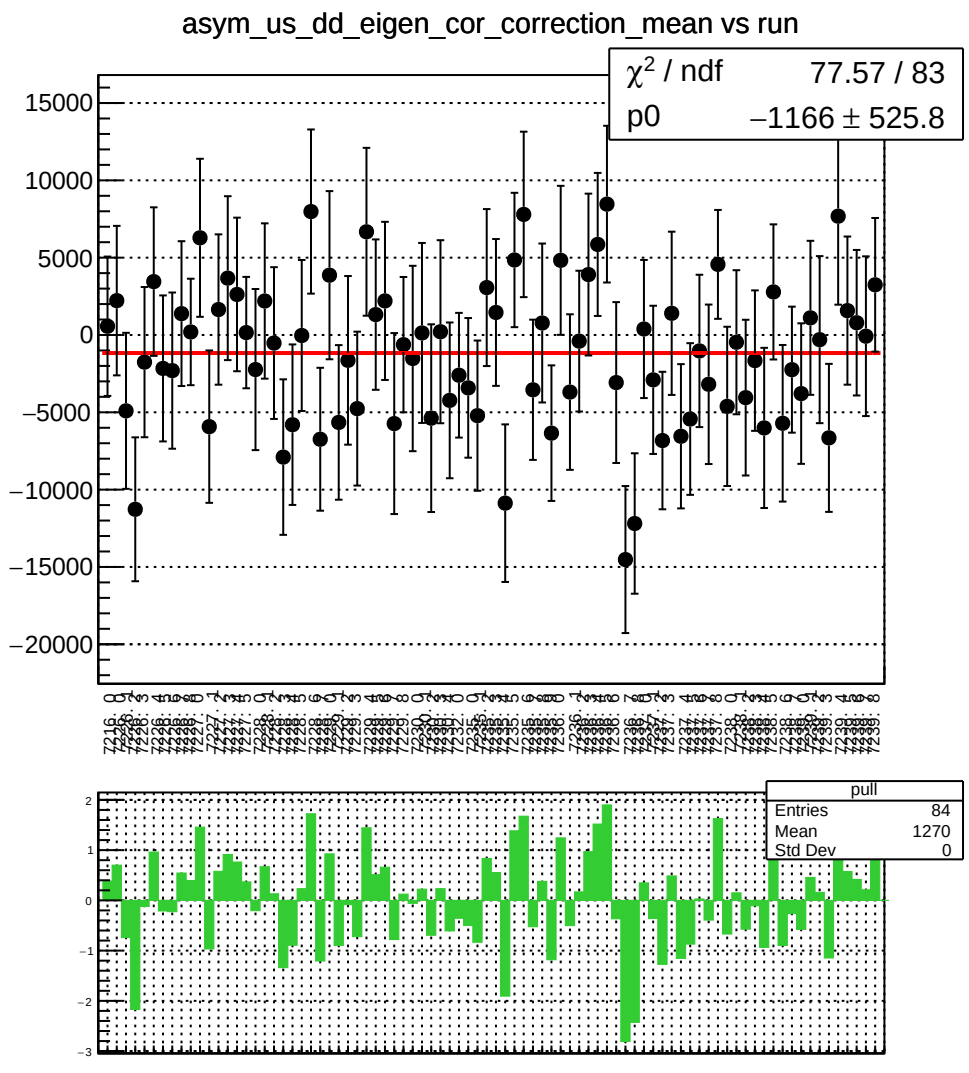

pull1D
Entries 84
Mean −0.0008958
Std Dev 0.9659

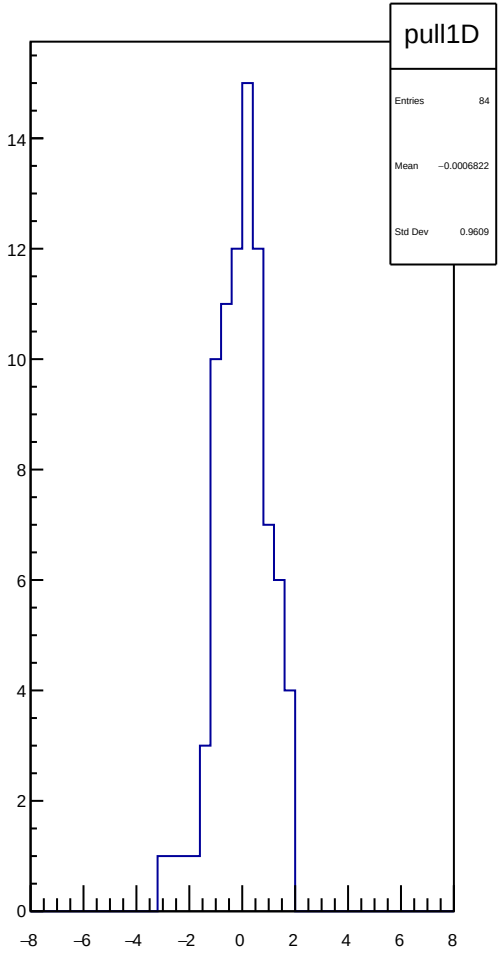

asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 8829 / 83
p0 474.1 ± 0.3728
600
550
500
450
400

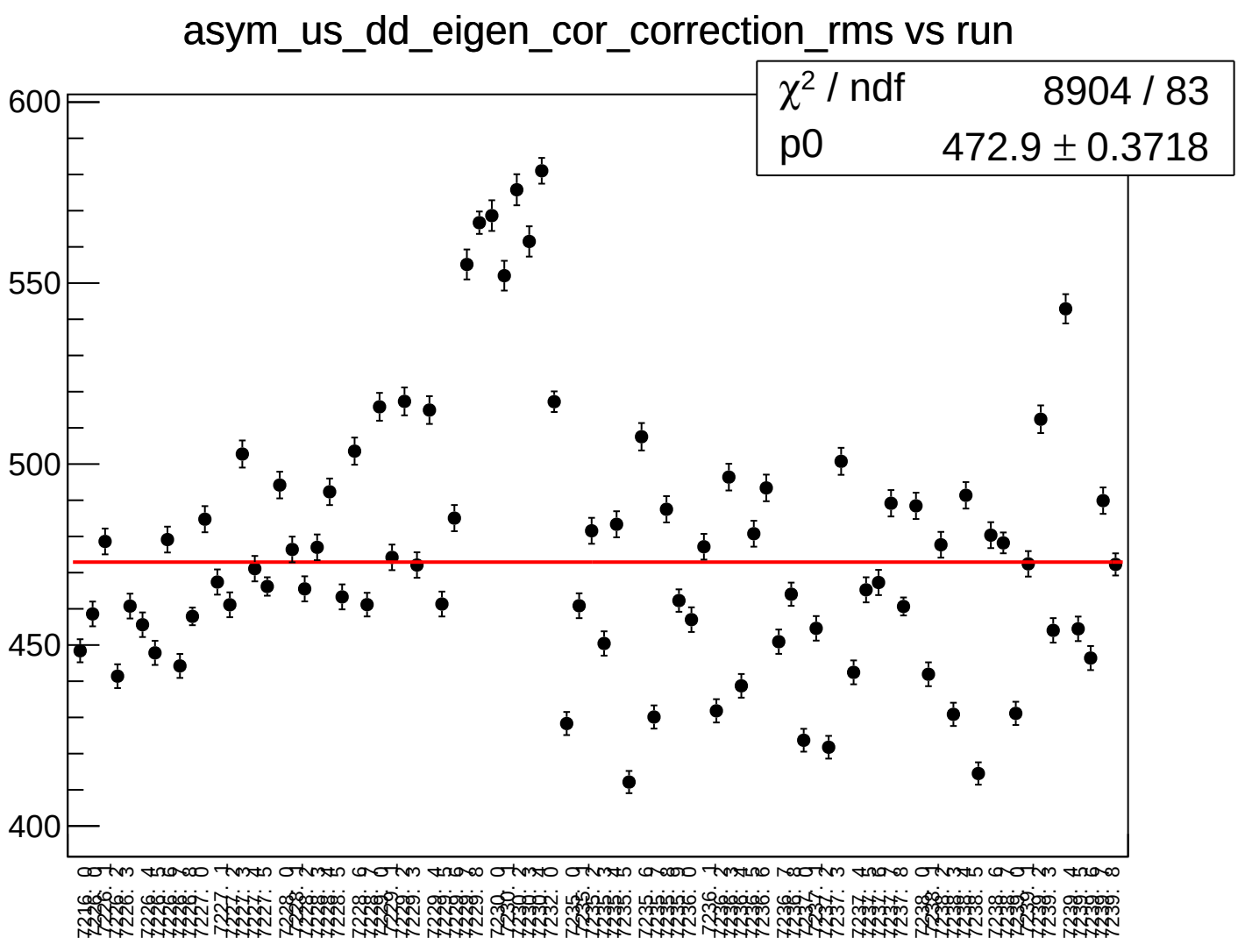

eigen_cor_asym_us_dd_mean vs run
χ² / ndf 84.13 / 83
p0 84.55 ± 855.4
pull
Entries 84
Mean 273.4
Std Dev 0

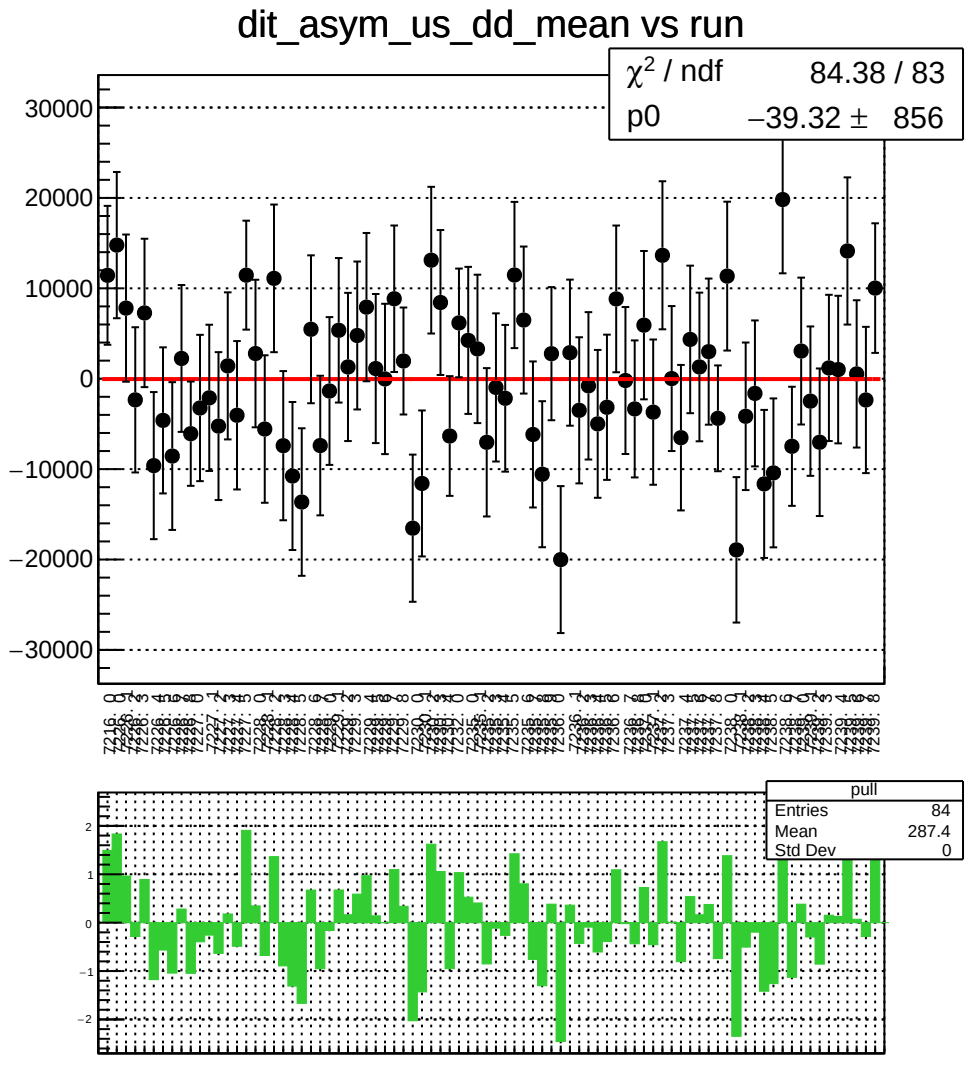

pull1D
Entries 84
Mean −0.001917
Std Dev 1.001

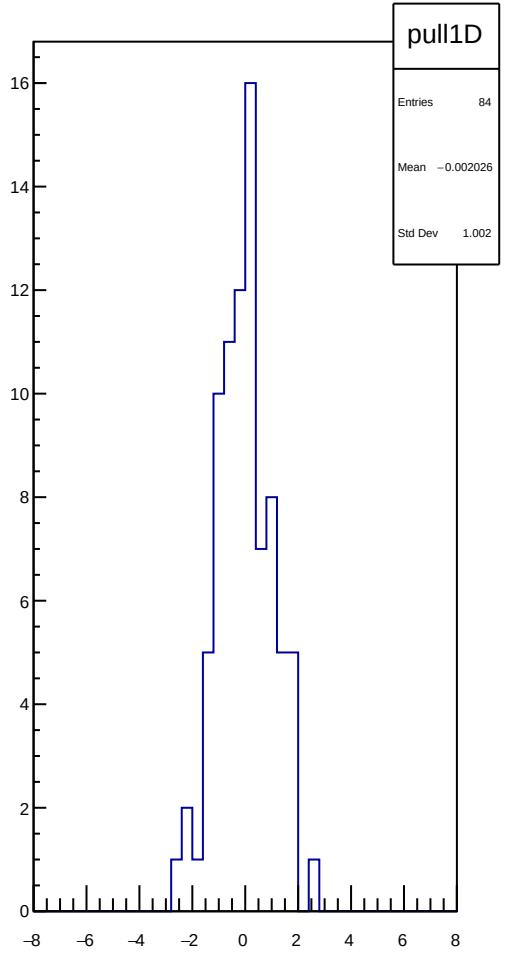

eigen_cor_asym_us_dd_rms vs run
χ² / ndf 101.1 / 83
p0 771.3 ± 0.6048
790
780
770
760
750

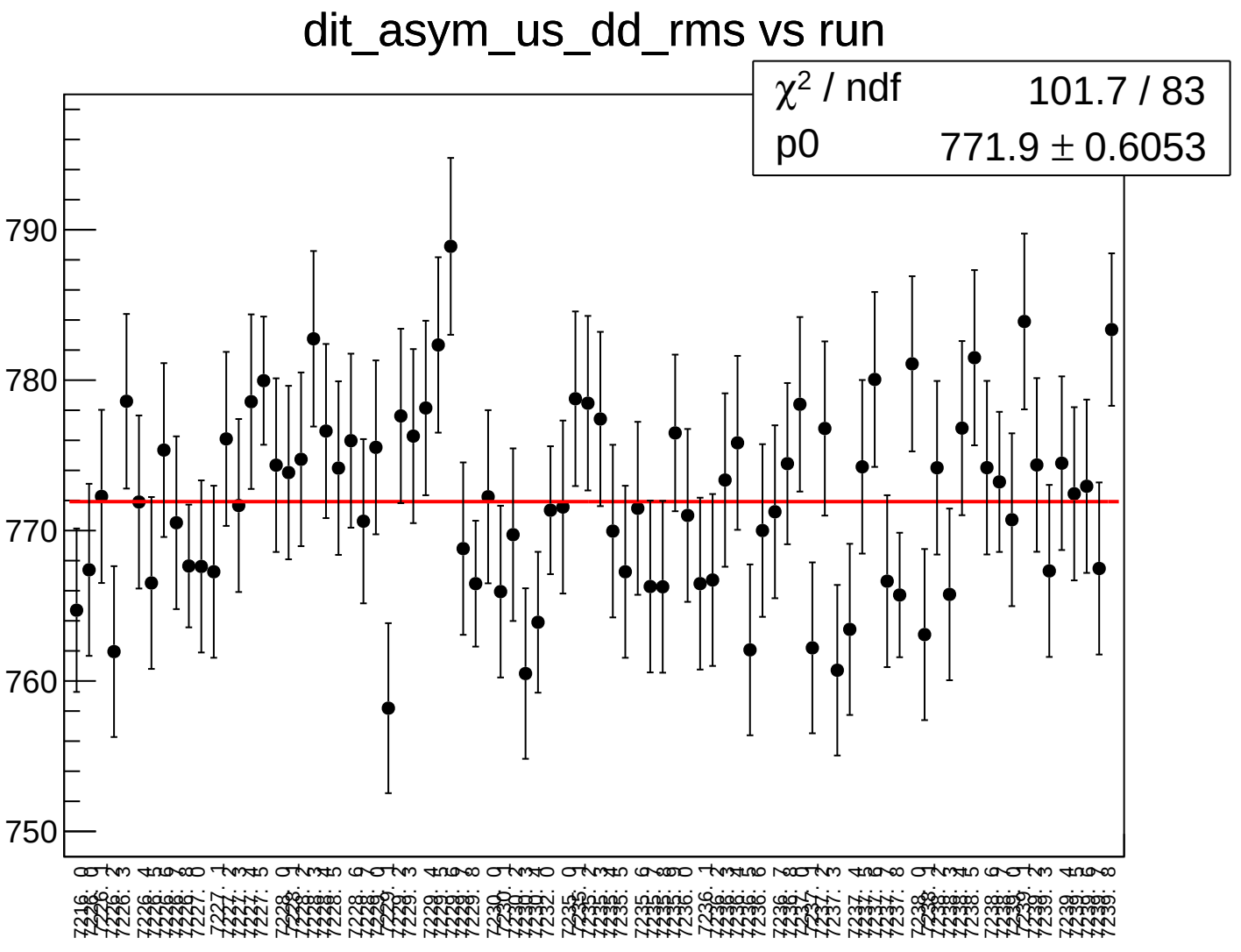

asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 77.57 / 83
p0 −1166 ± 525.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 84
Mean 1270
Std Dev 0
2
1
0
−1
−2
−3

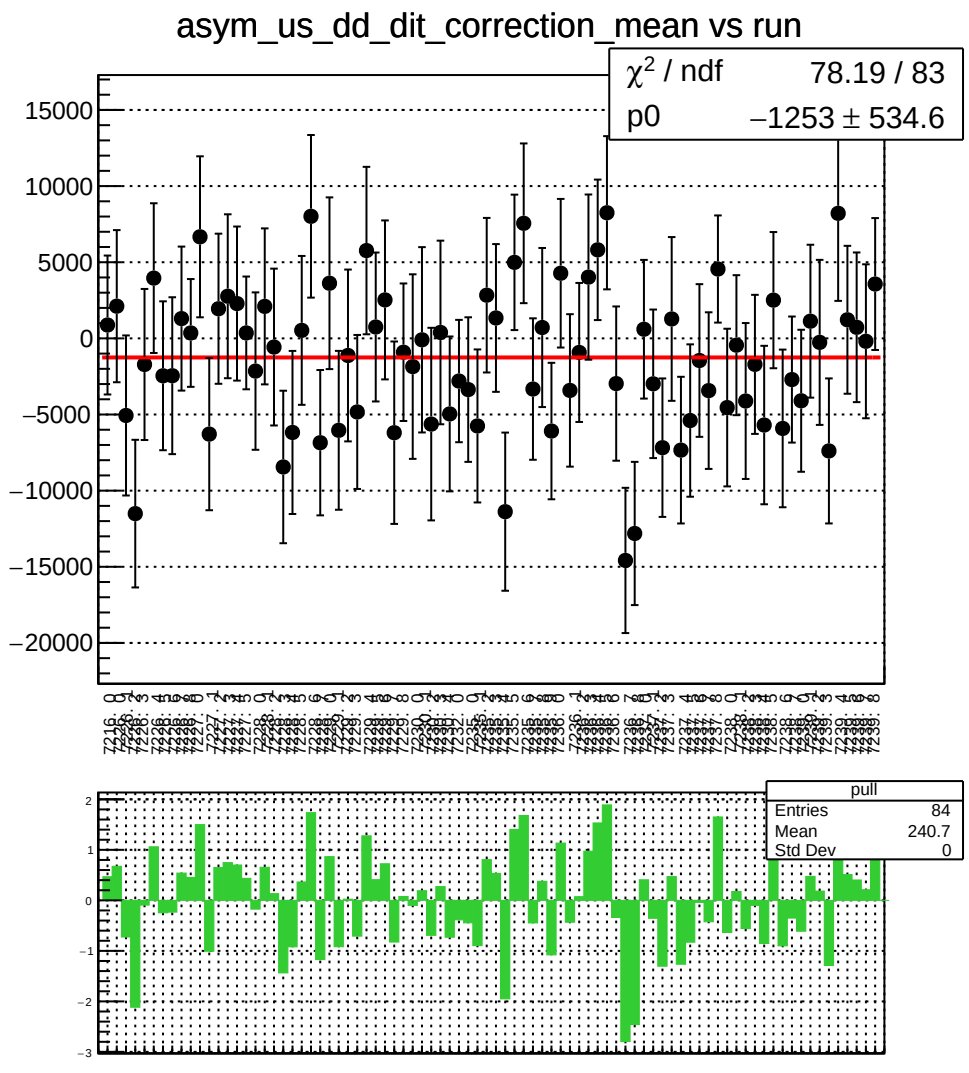

pull1D
Entries 84
Mean −0.0006822
Std Dev 0.9609
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

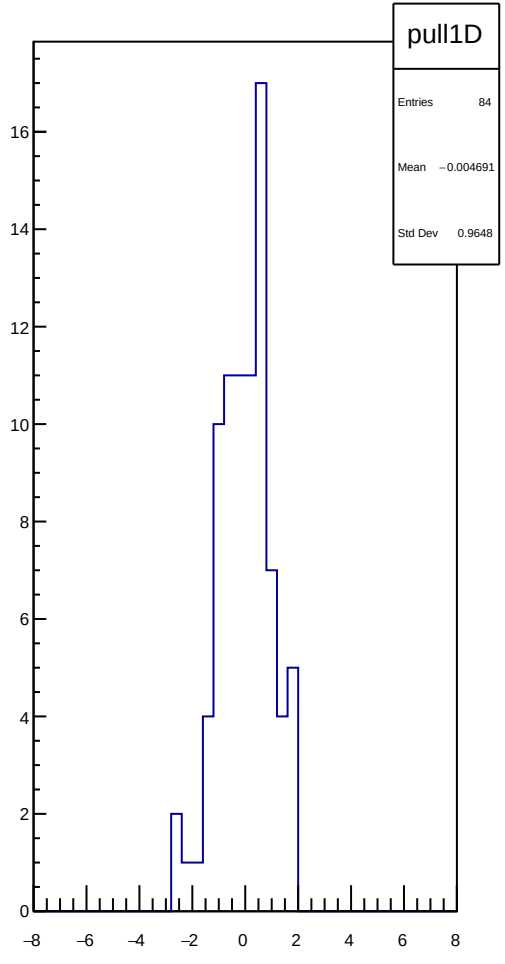

asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 8904 / 83
p0 472.9 ± 0.3718
600
550
500
450
400

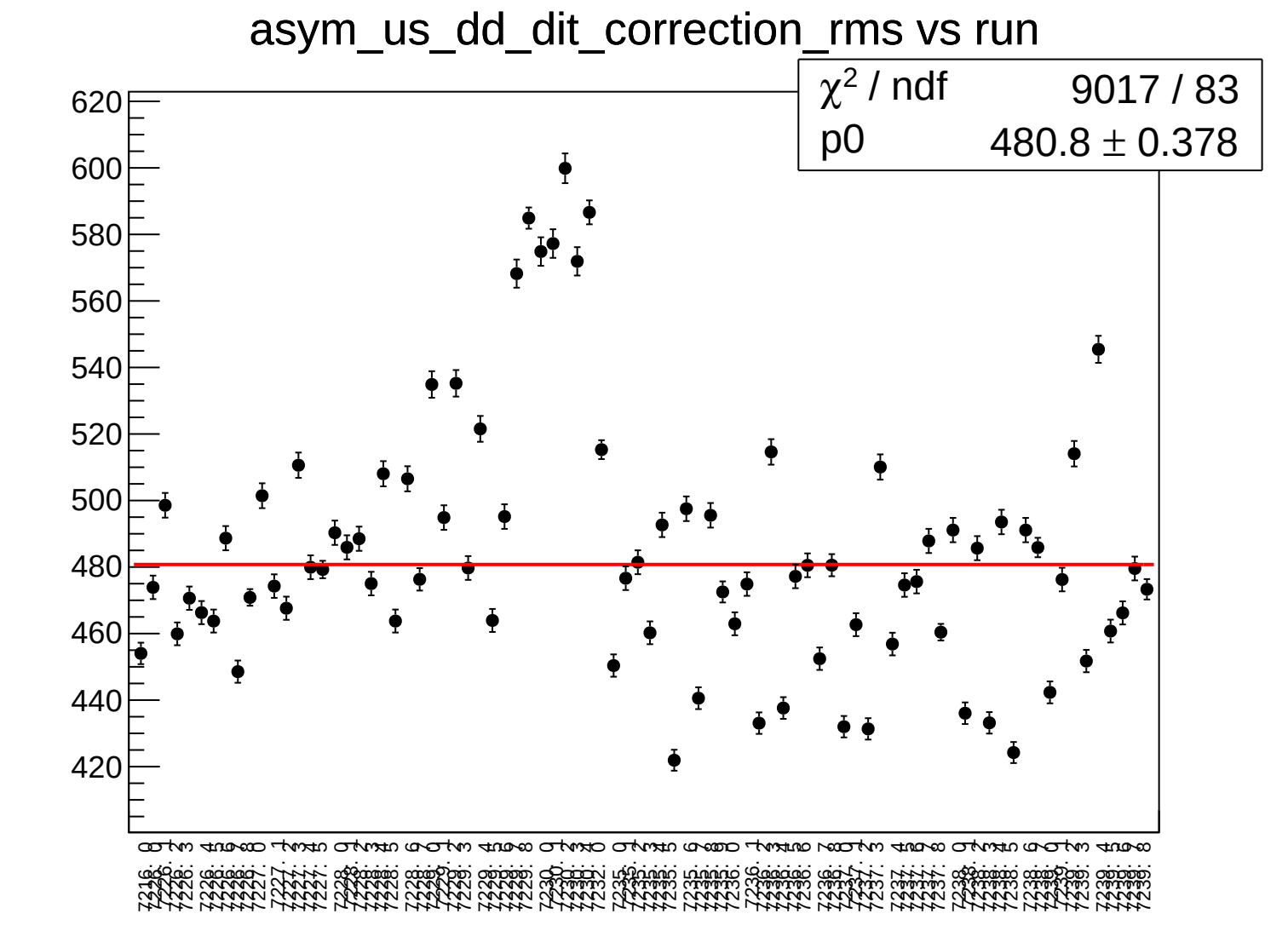

dit_asym_us_dd_mean vs run
χ² / ndf 84.38 / 83
p0 −39.32 ± 856
pull
Entries 84
Mean 287.4
Std Dev 0

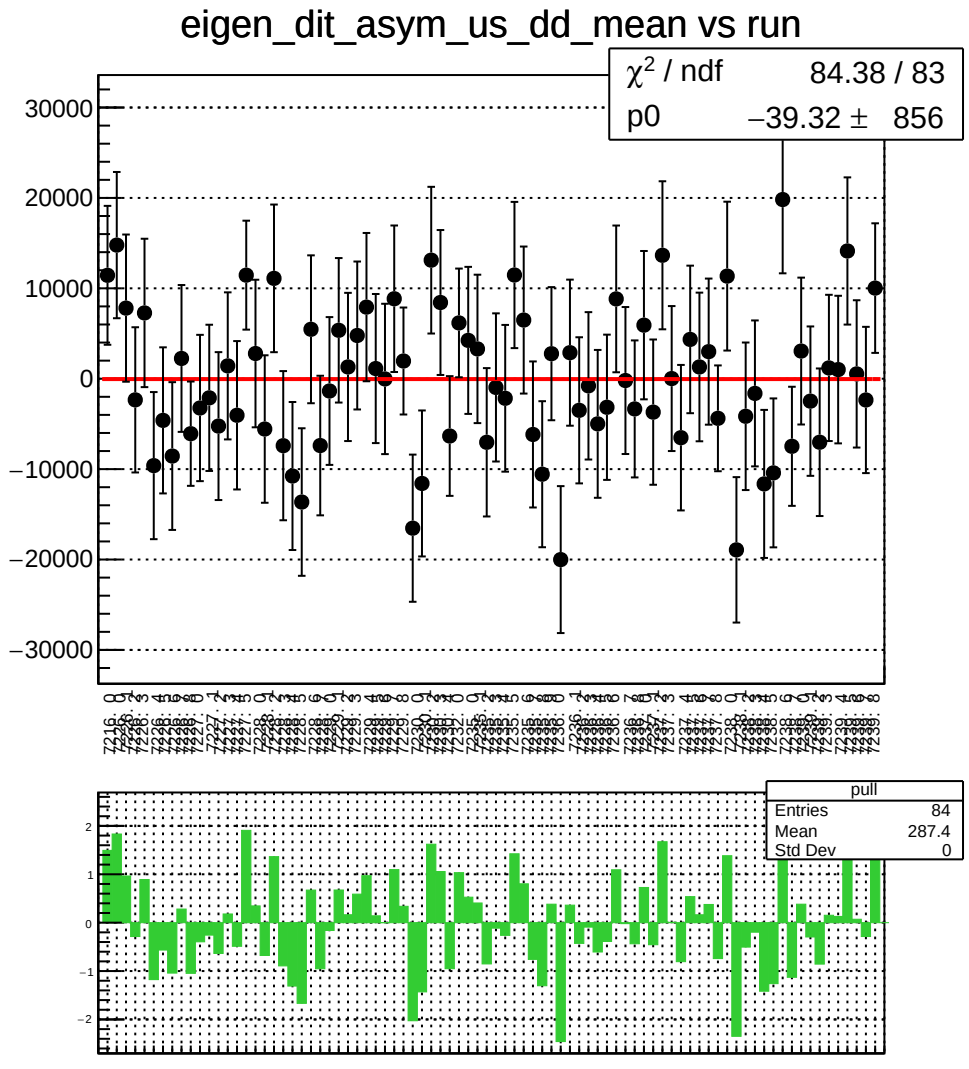

pull1D
Entries 84
Mean −0.002026
Std Dev 1.002

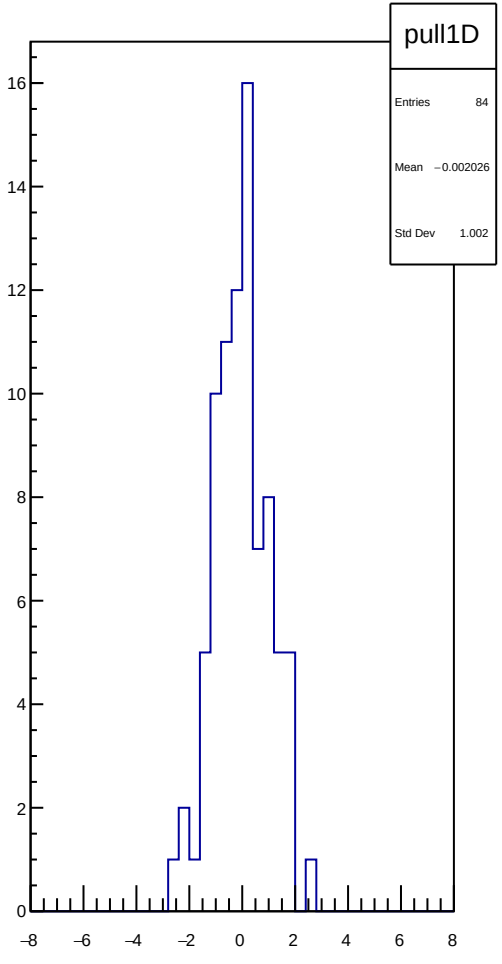

dit_asym_us_dd_rms vs run
χ² / ndf 101.7 / 83
p0 771.9 ± 0.6053
790
780
770
760
750

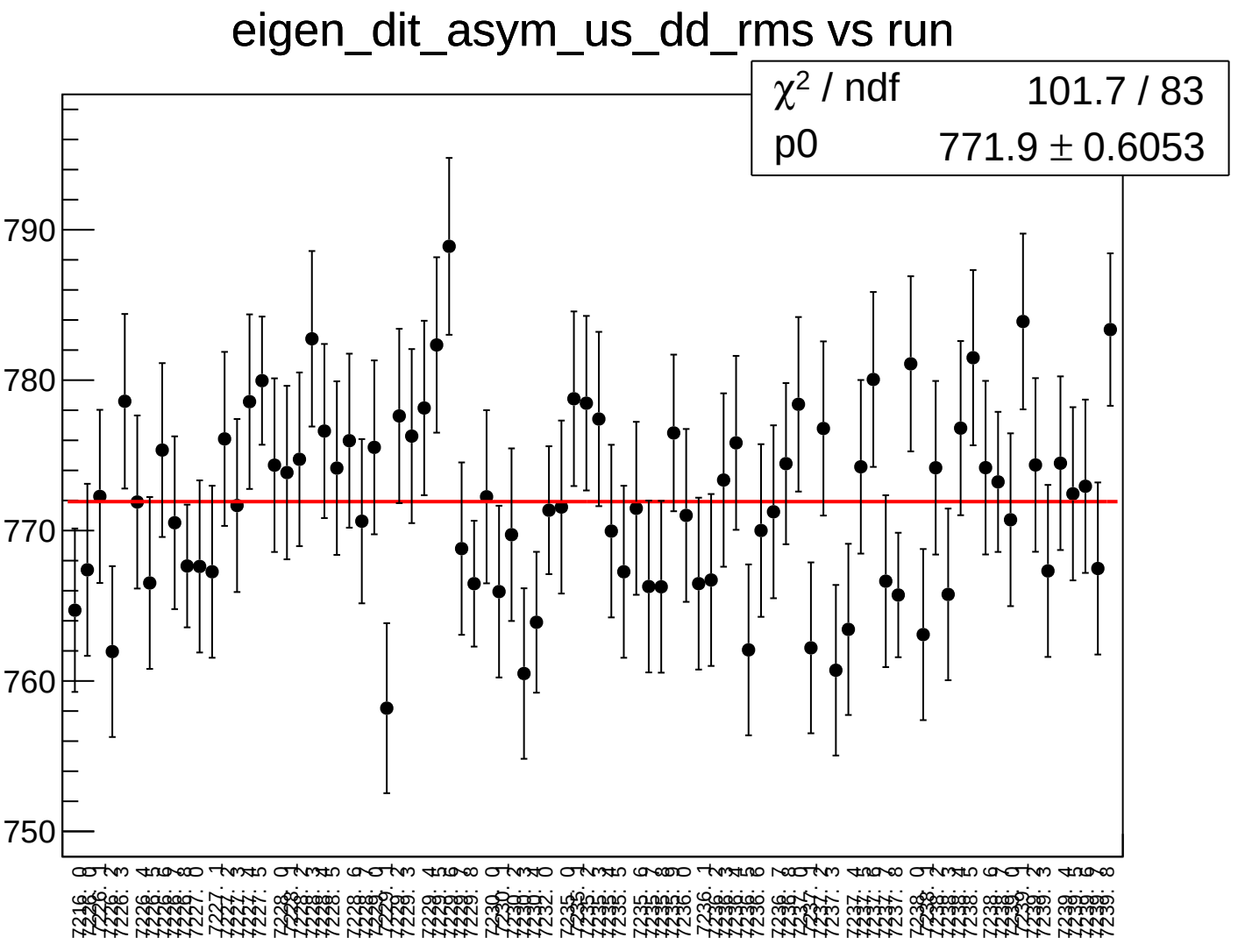

asym_us_dd_dit_correction_mean vs run
χ² / ndf 78.19 / 83
p0 −1253 ± 534.6
pull
Entries 84
Mean 240.7
Std Dev 0

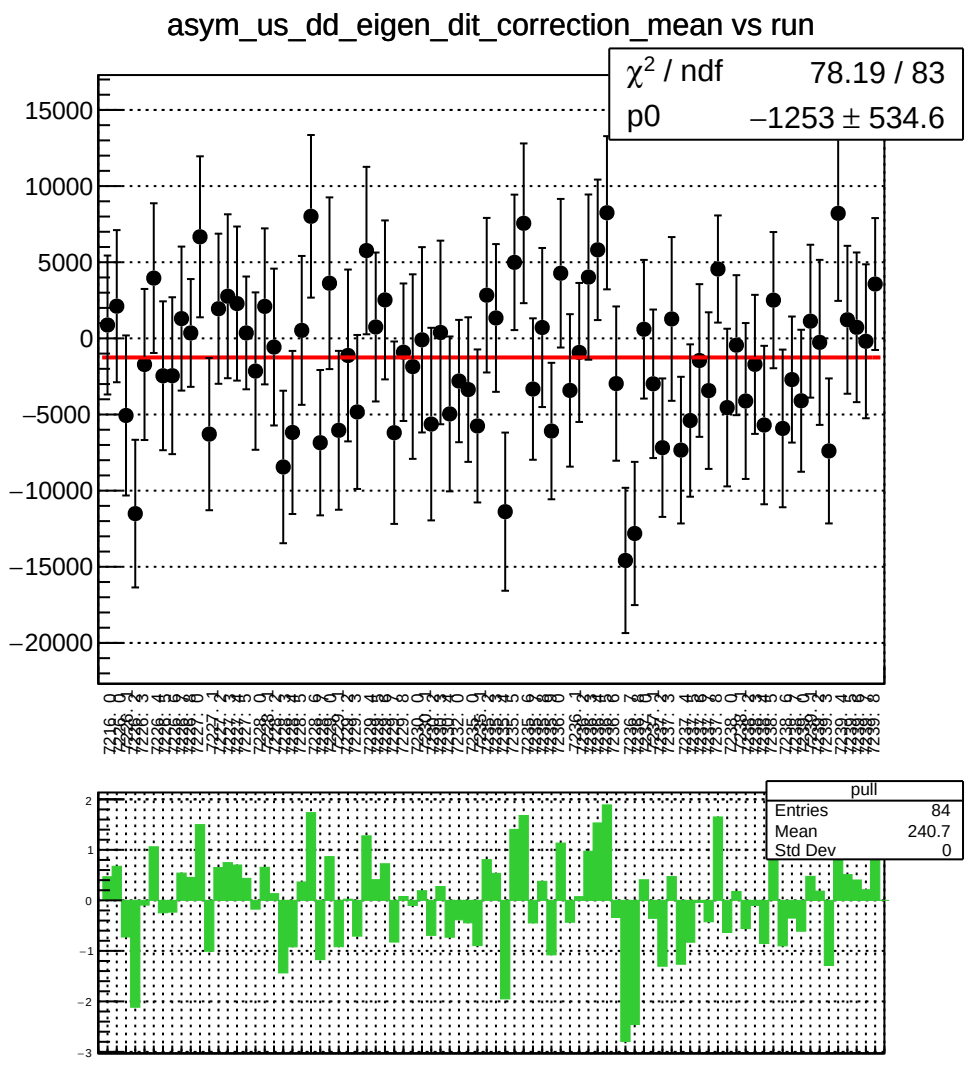

pull1D
Entries 84
Mean −0.004691
Std Dev 0.9648

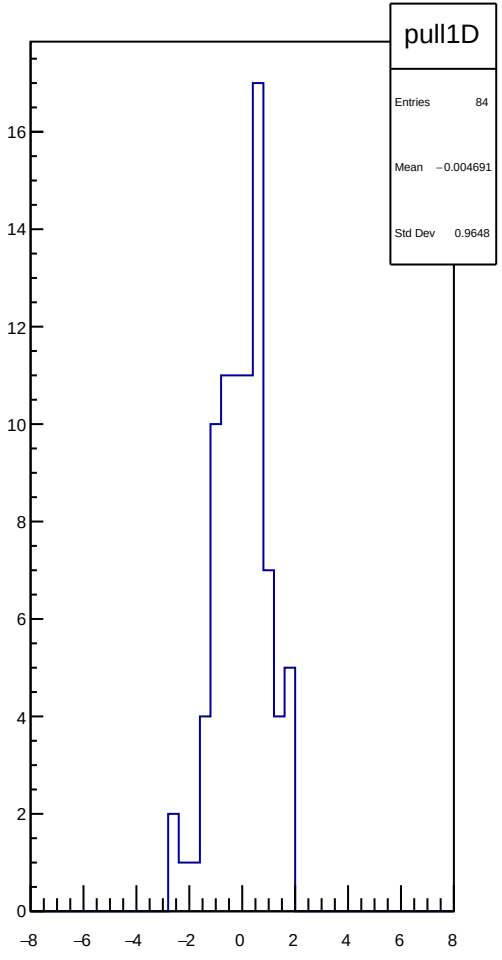

asym_us_dd_dit_correction_rms vs run
χ^2 / ndf 9017 / 83
p0 480.8 ± 0.378
620
600
580
560
540
520
500
480
460
440
420

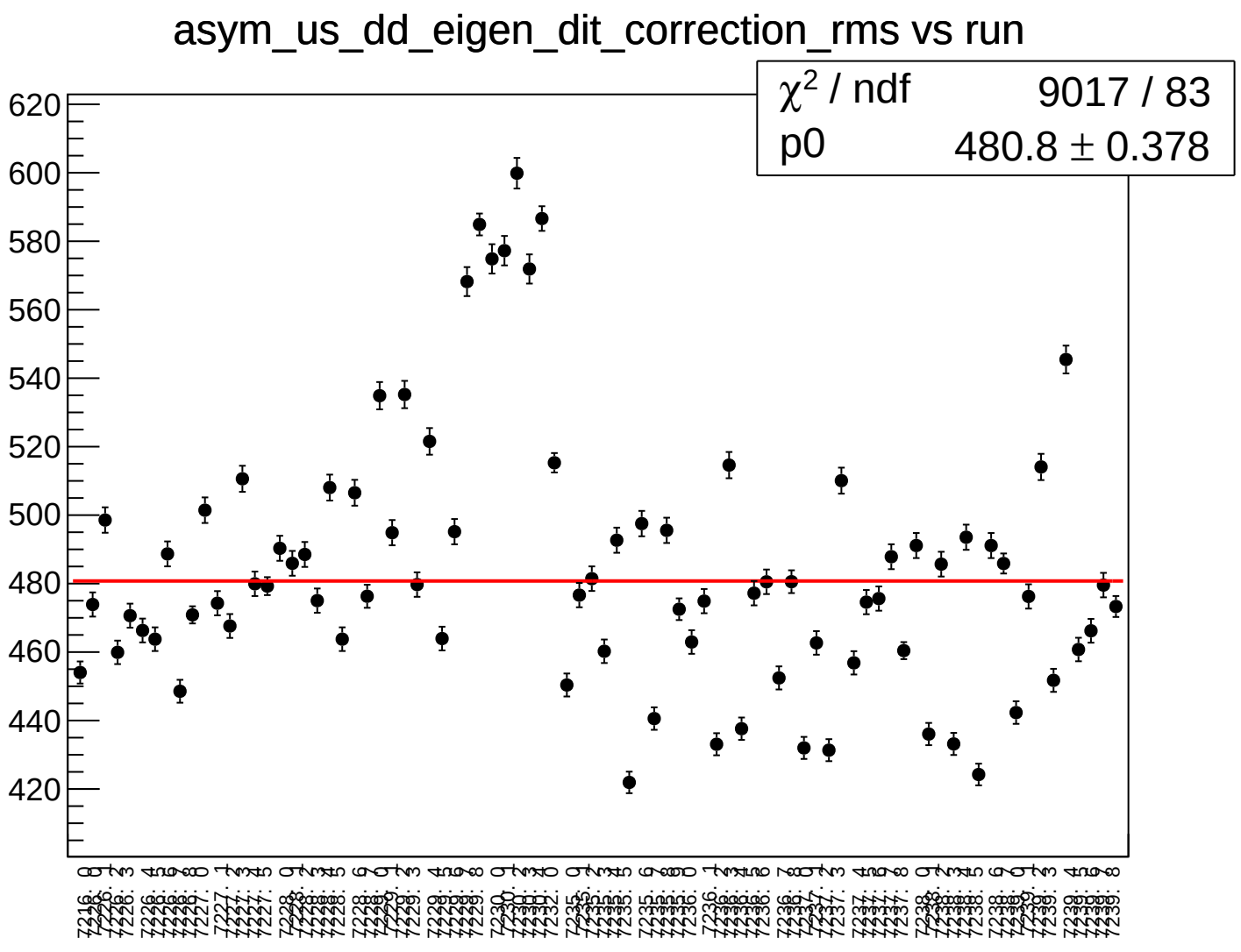

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 84.38 / 83
p0 −39.32 ± 856
pull
Entries 84
Mean 287.4
Std Dev 0

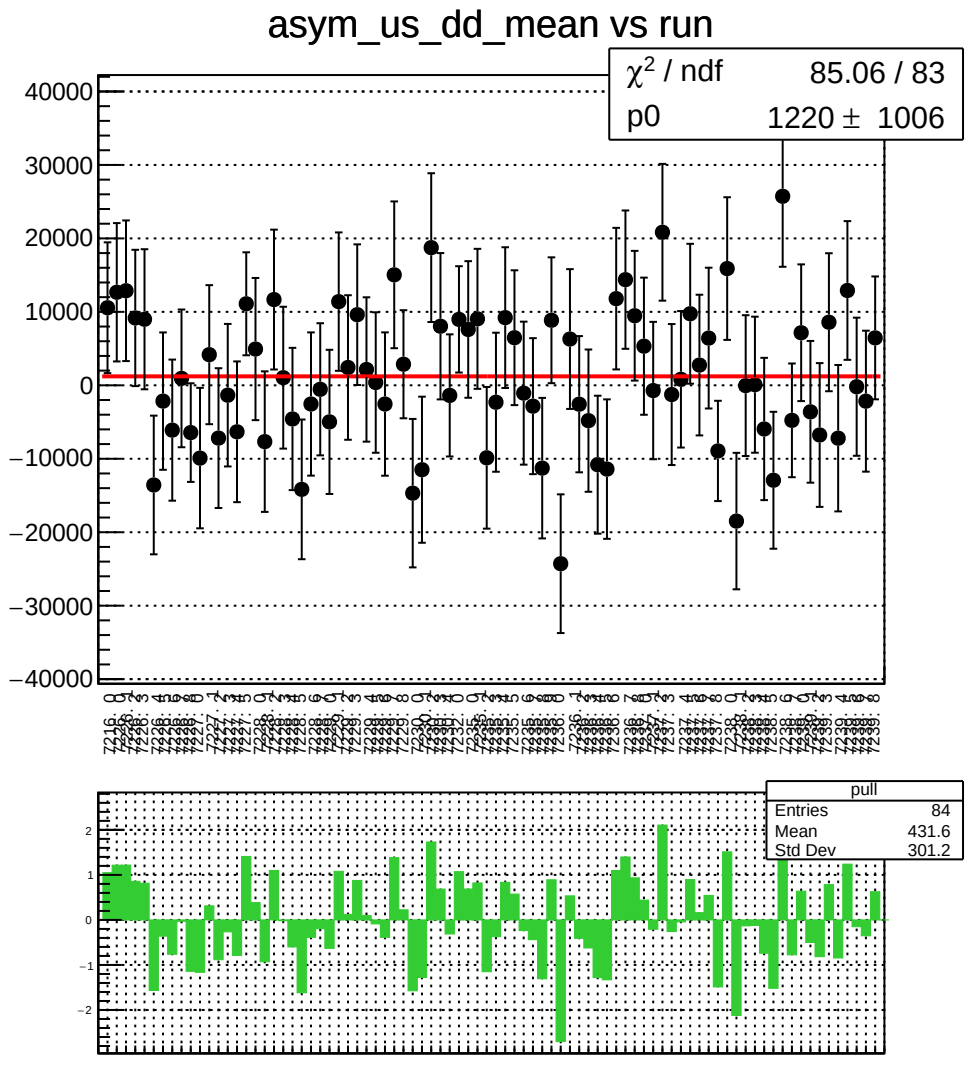

pull1D
Entries 84
Mean −0.002026
Std Dev 1.002

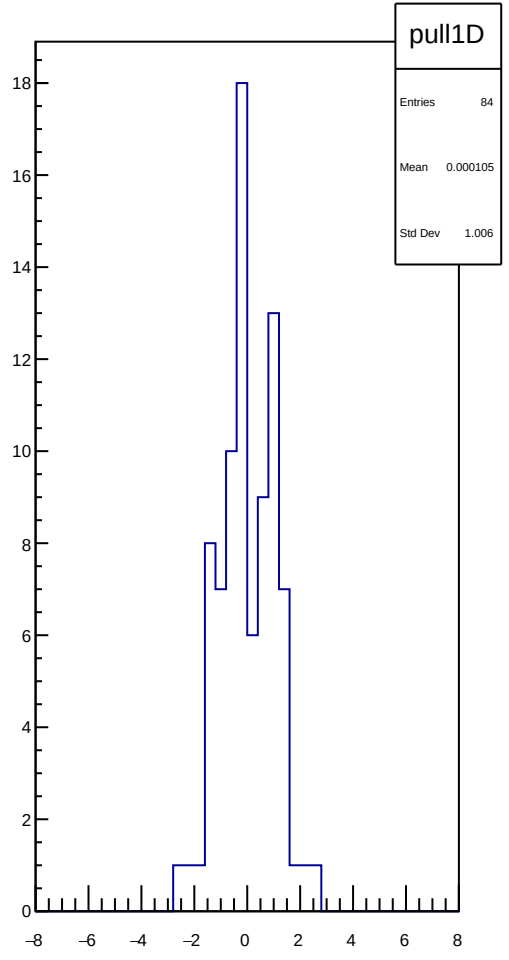

eigen_dit_asym_us_dd_rms vs run
χ² / ndf 101.7 / 83
p0 771.9 ± 0.6053
790
780
770
760
750

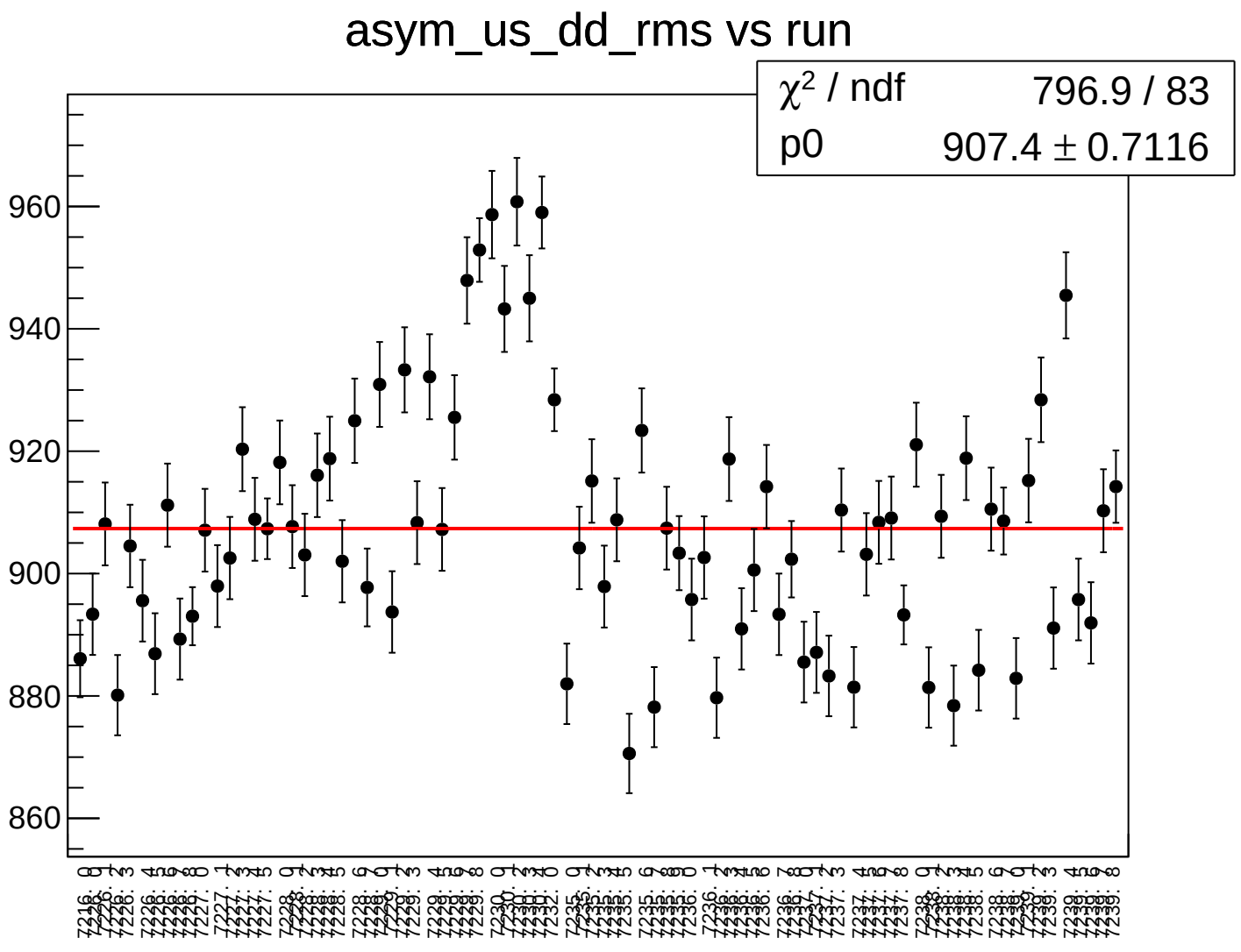

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 78.19 / 83
p0 −1253 ± 534.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 84
Mean 240.7
Std Dev 0
2
1
0
−1
−2
−3

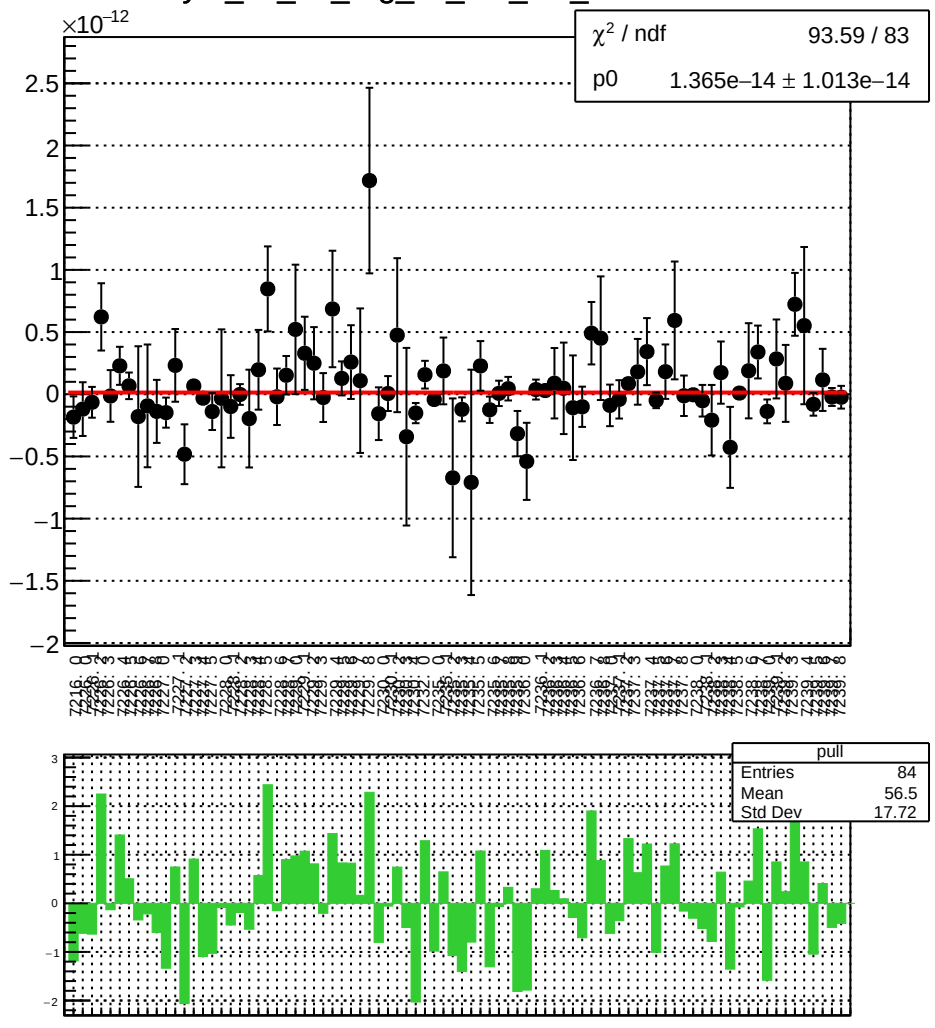

pull1D
Entries 84
Mean −0.004691
Std Dev 0.9648
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

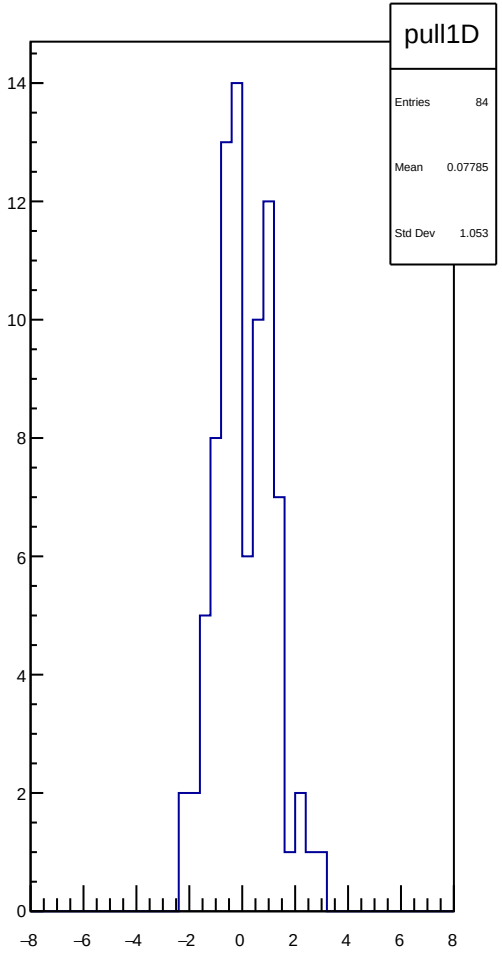

asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 9017 / 83
p0 480.8 ± 0.378
620
600
580
560
540
520
500
480
460
440
420

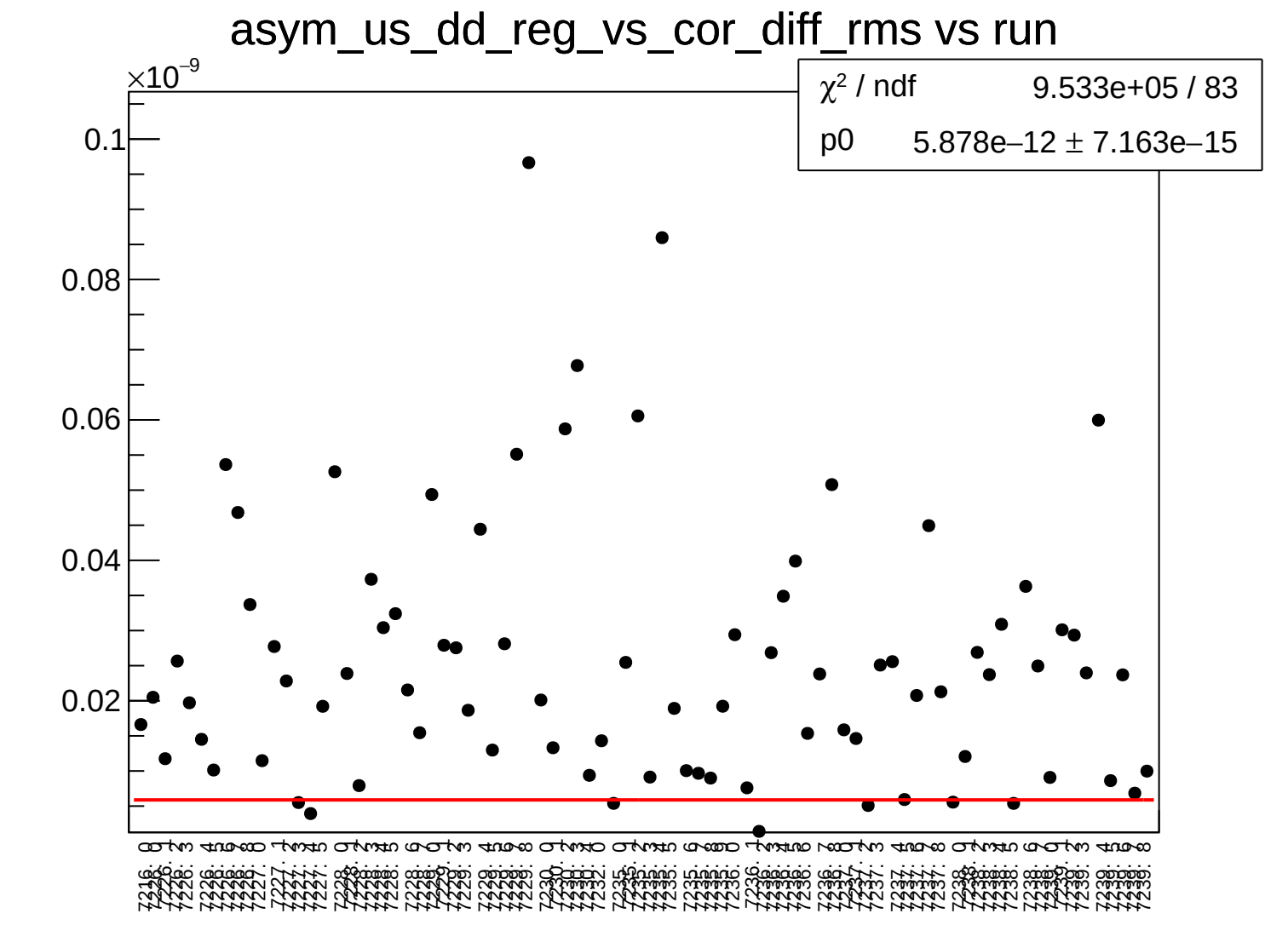

asym_us_dd_mean vs run
χ² / ndf 85.06 / 83
p0 1220 ± 1006
pull
Entries 84
Mean 431.6
Std Dev 301.2

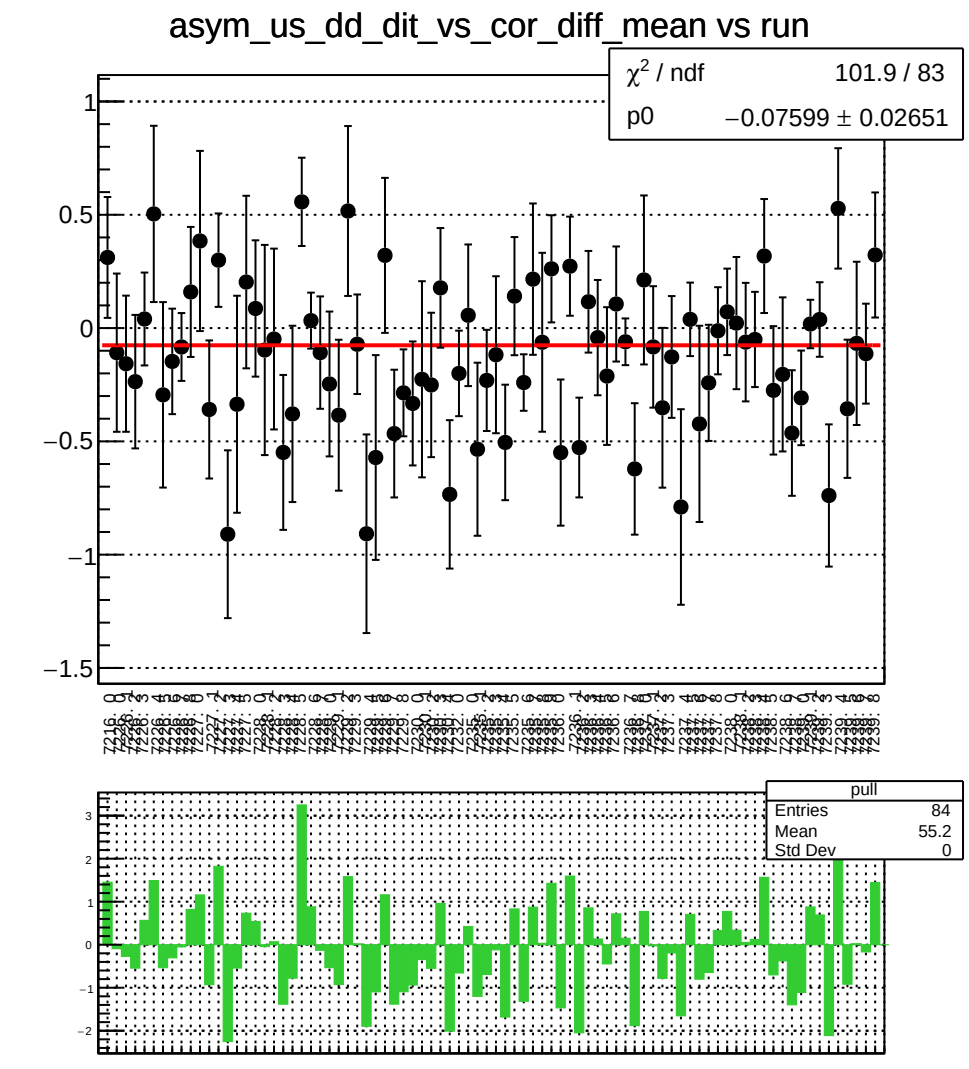

pull1D
Entries 84
Mean 0.000105
Std Dev 1.006

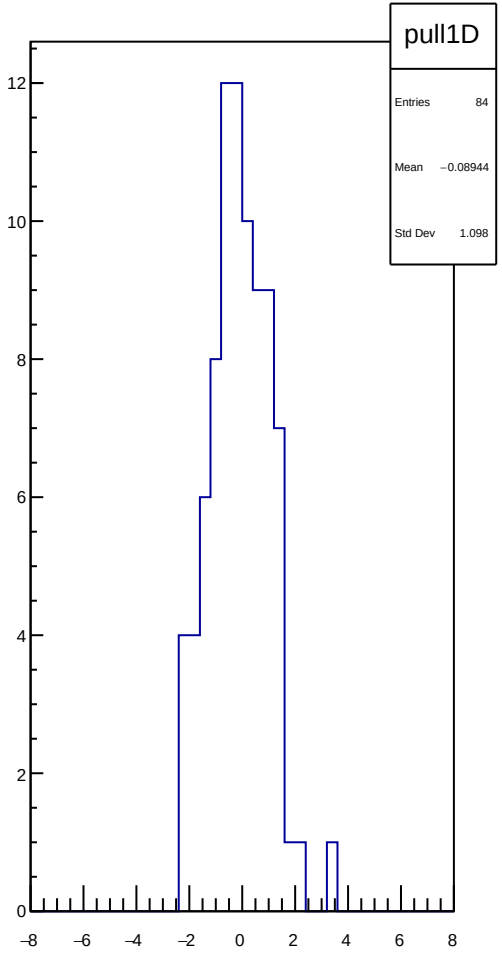

asym_us_dd_rms vs run
χ^2 / ndf 796.9 / 83
p0 907.4 ± 0.7116
960
940
920
900
880
860

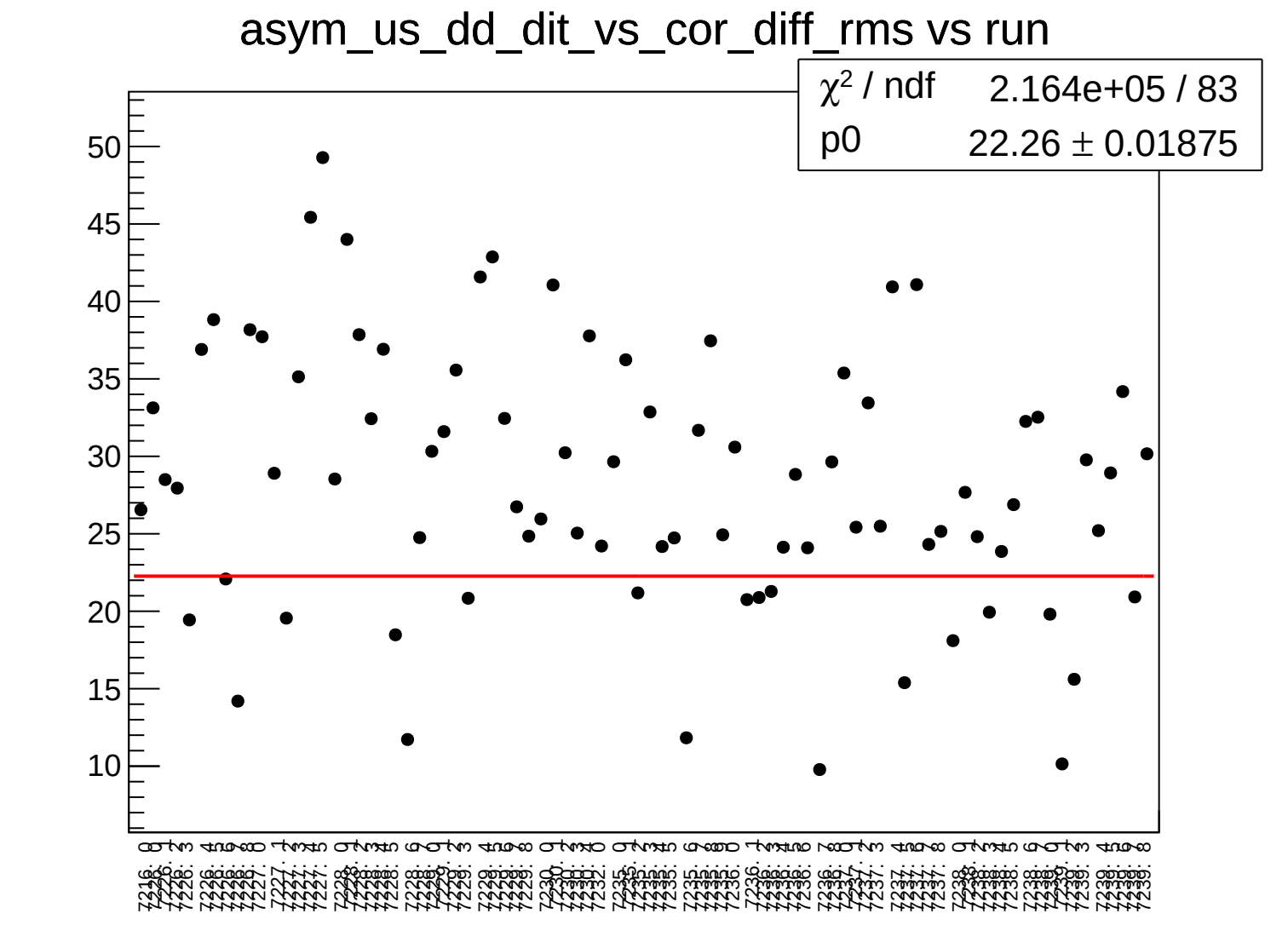

asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.59 / 83
p0 1.365e−14 ± 1.013e−14
pull
Entries 84
Mean 56.5
Std Dev 17.72

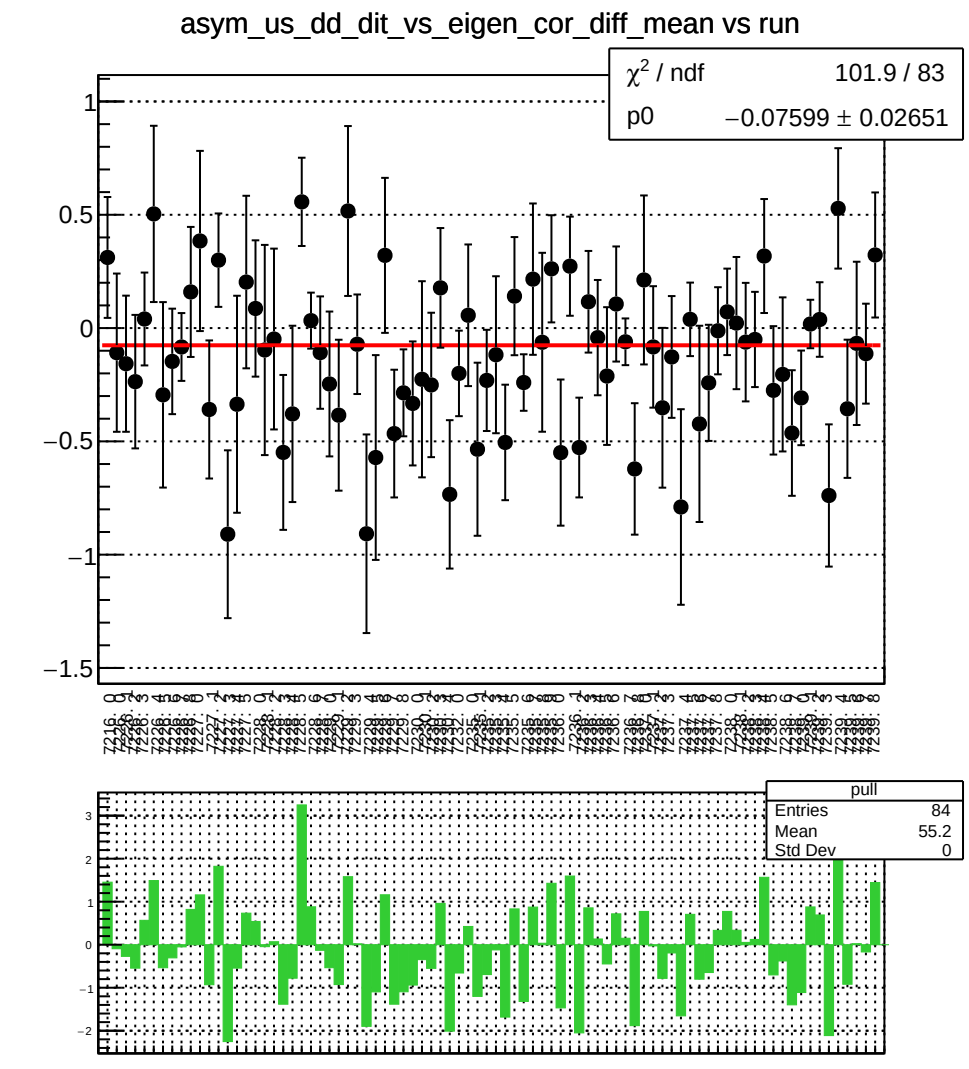

pull1D
Entries 84
Mean 0.07785
Std Dev 1.053

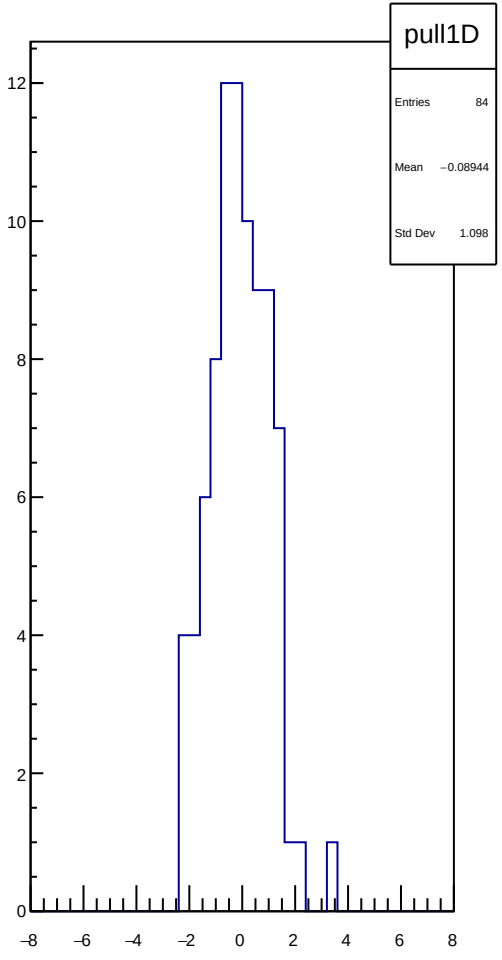

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.533e+05 / 83
p0 5.878e−12 ± 7.163e−15
0.1
0.08
0.06
0.04
0.02

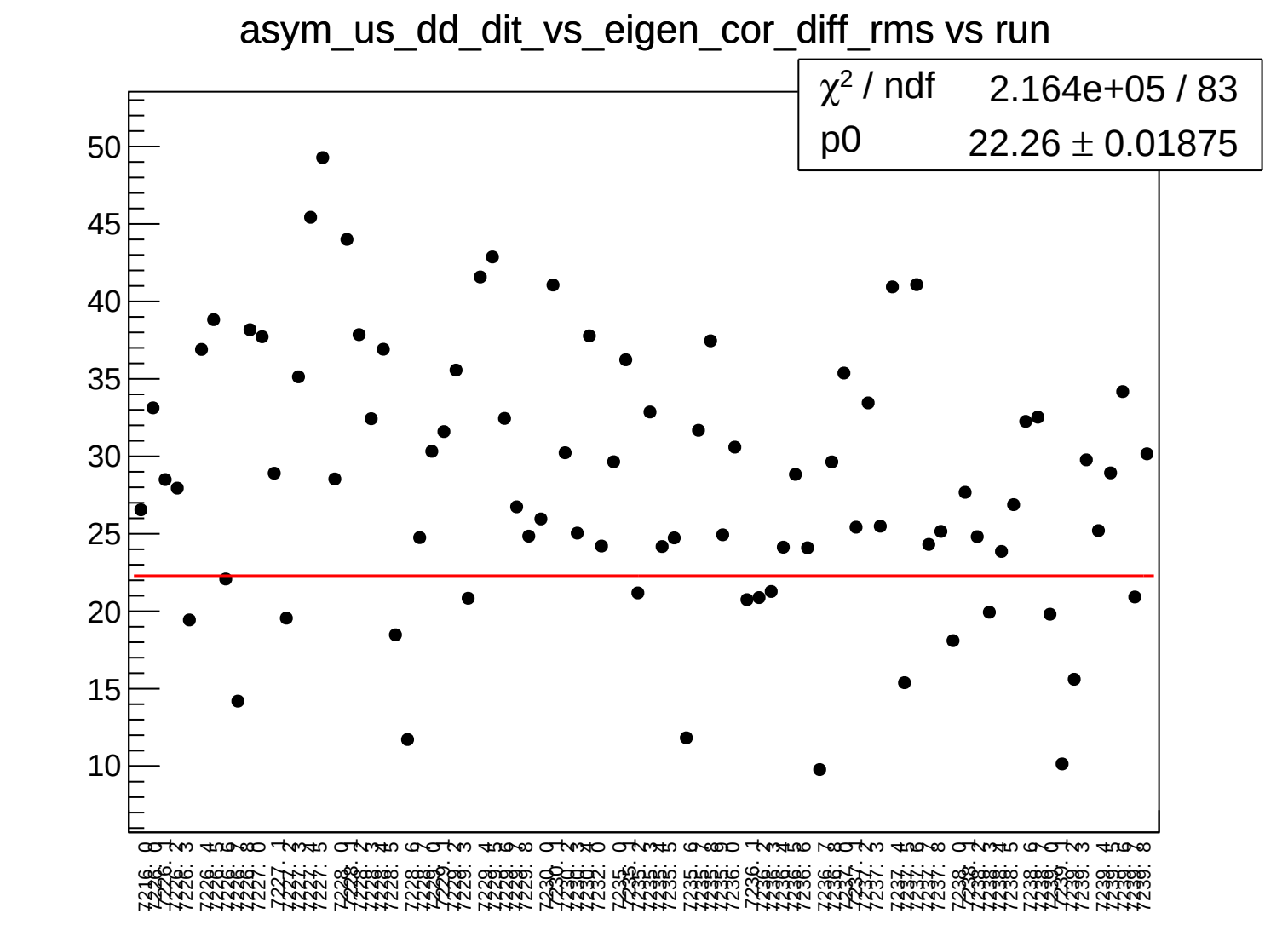

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 101.9 / 83
p0 −0.07599 ± 0.02651
pull
Entries 84
Mean 55.2
Std Dev 0

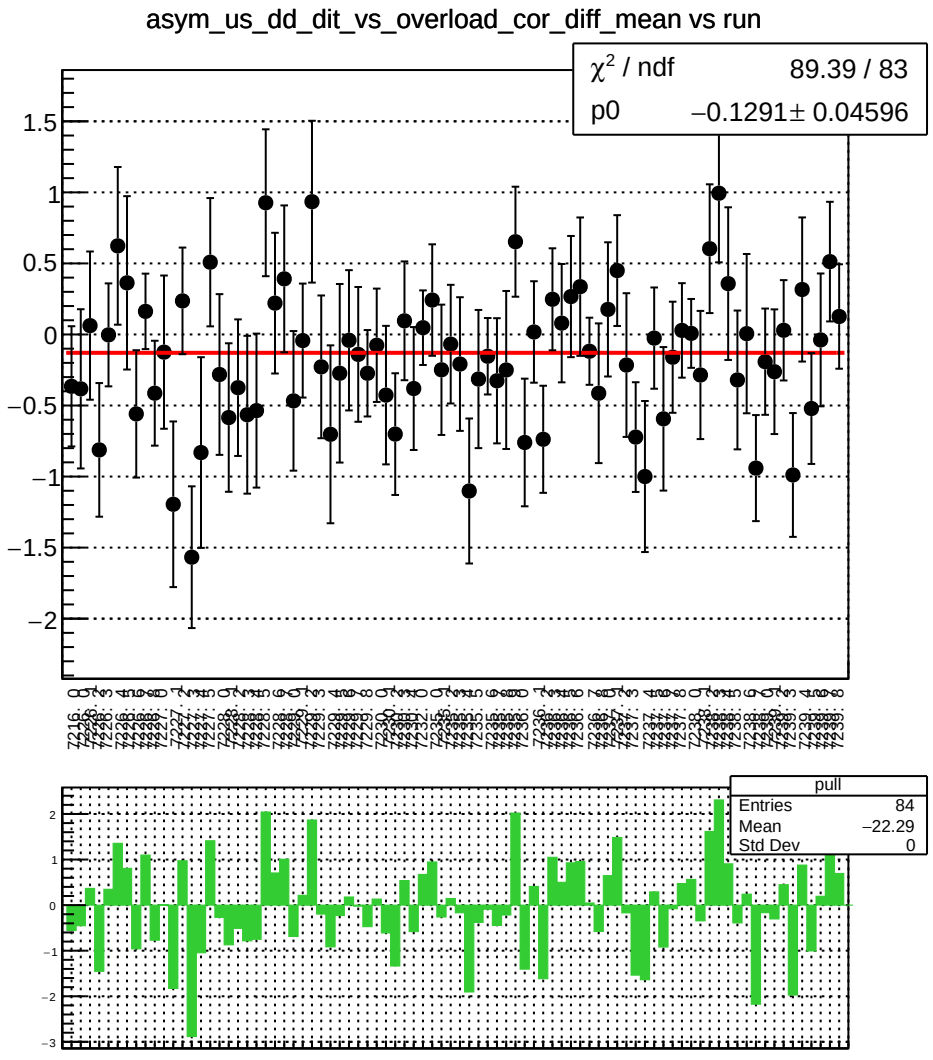

pull1D
Entries 84
Mean −0.08944
Std Dev 1.098

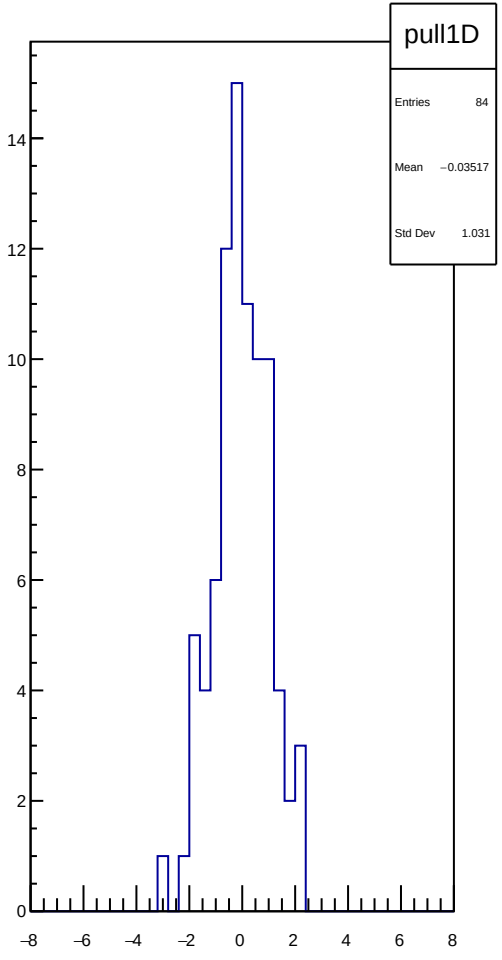

asym_us_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.164e+05 / 83
p0 22.26 ± 0.01875
50
45
40
35
30
25
20
15
10

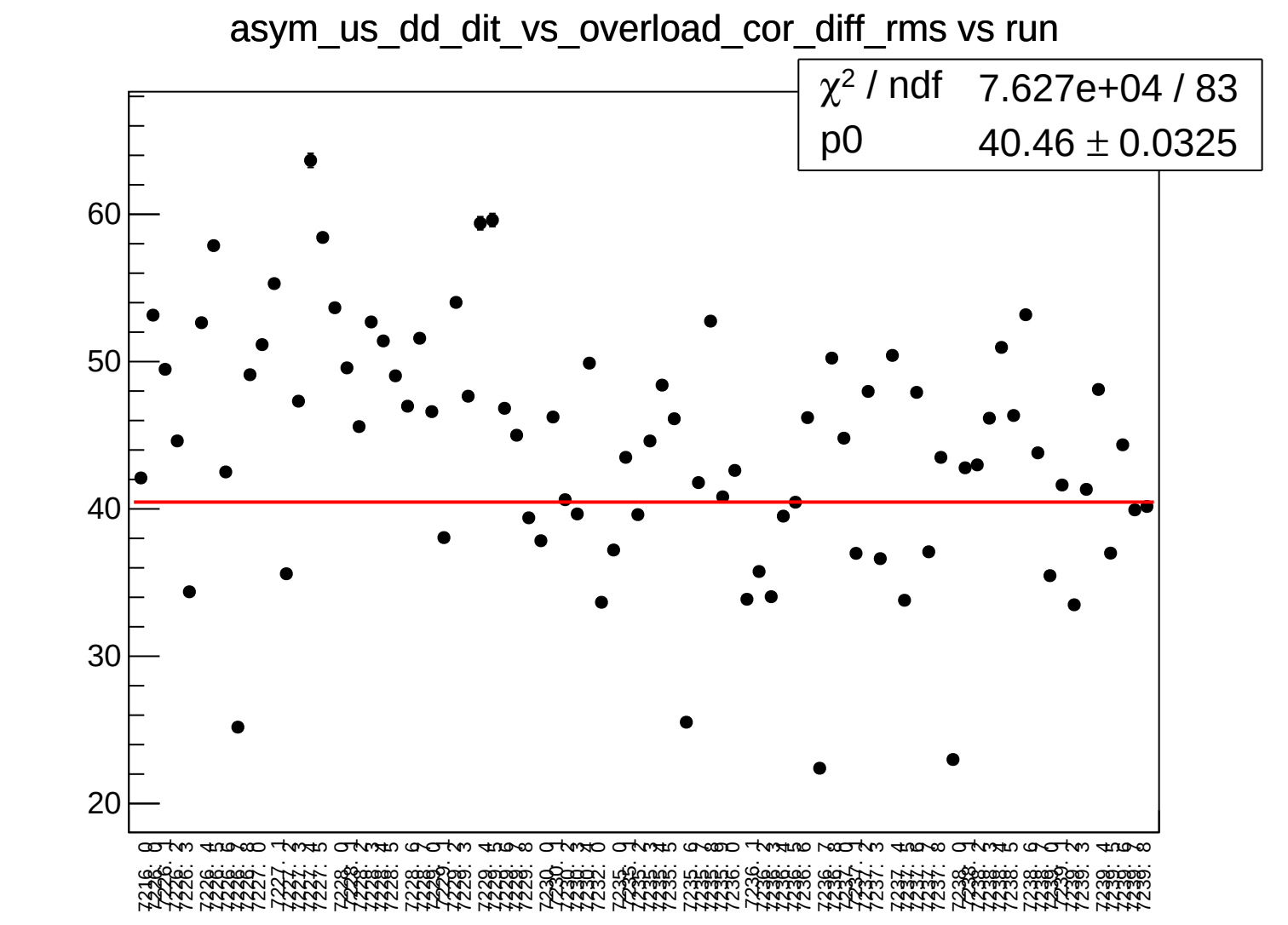

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.9 / 83
p0 −0.07599 ± 0.02651
pull
Entries 84
Mean 55.2
Std Dev 0

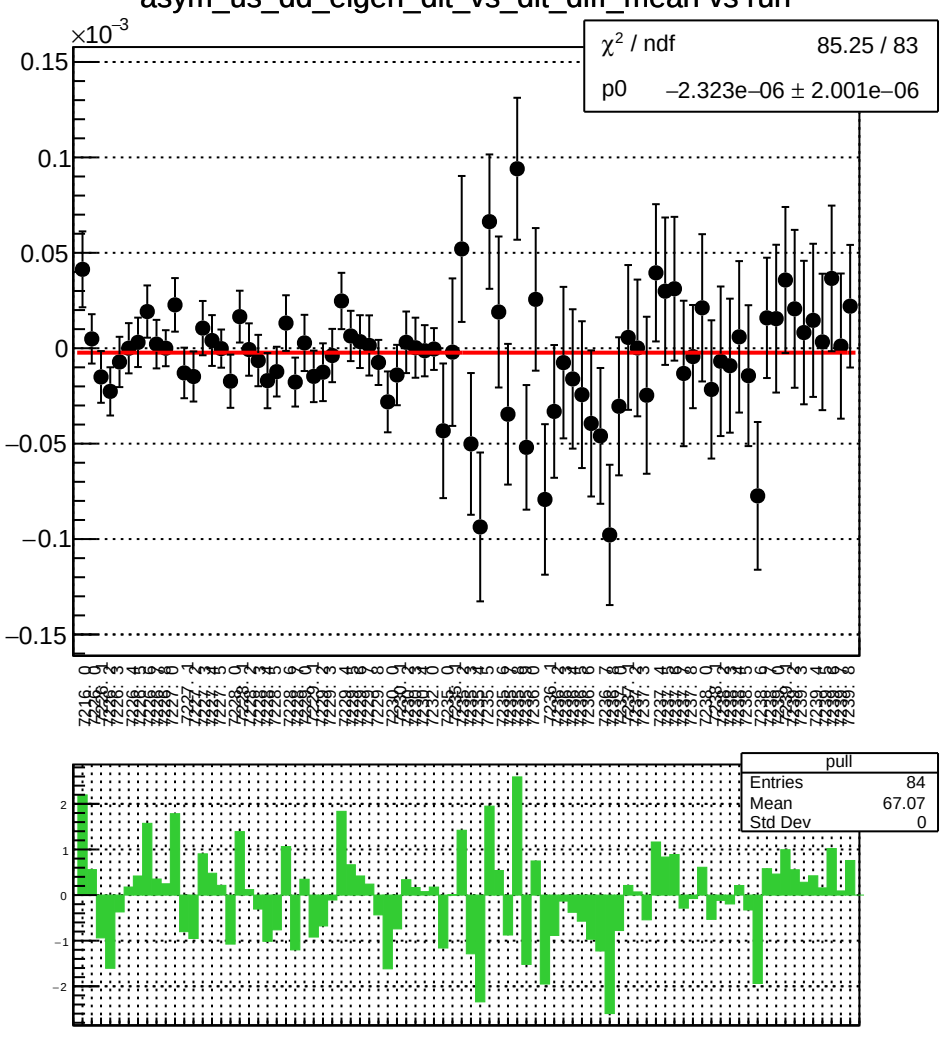

pull1D
Entries 84
Mean −0.08944
Std Dev 1.098

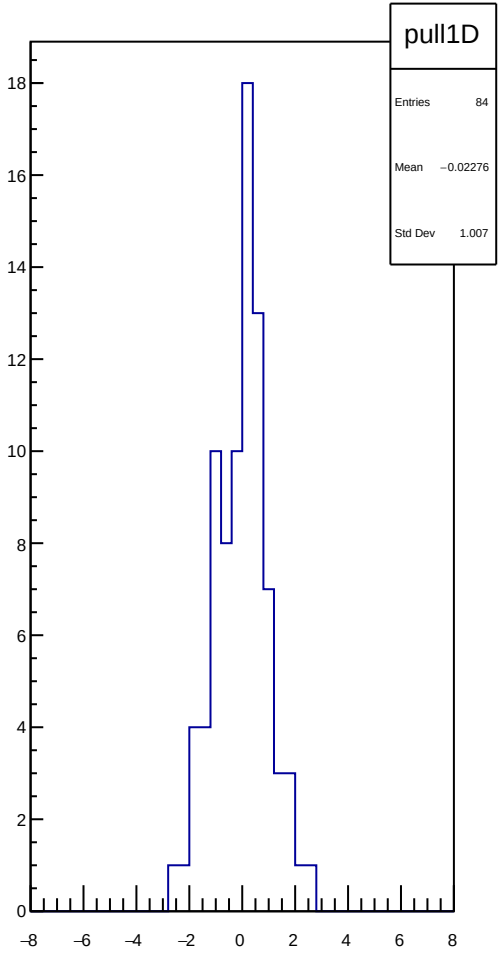

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.164e+05 / 83
p0 22.26 ± 0.01875
50
45
40
35
30
25
20
15
10

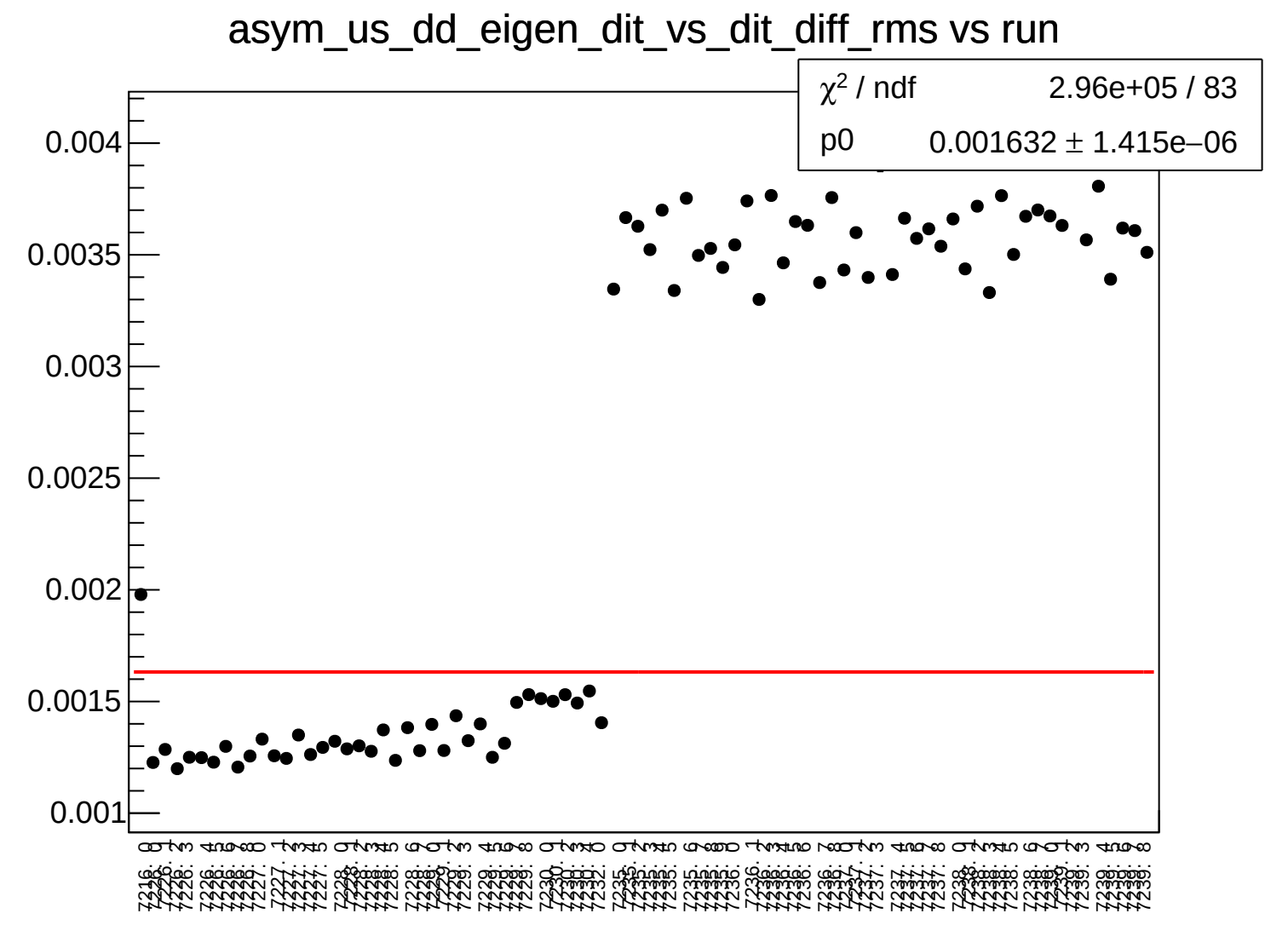

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 89.39 / 83
p0 −0.1291± 0.04596
pull
Entries 84
Mean −22.29
Std Dev 0

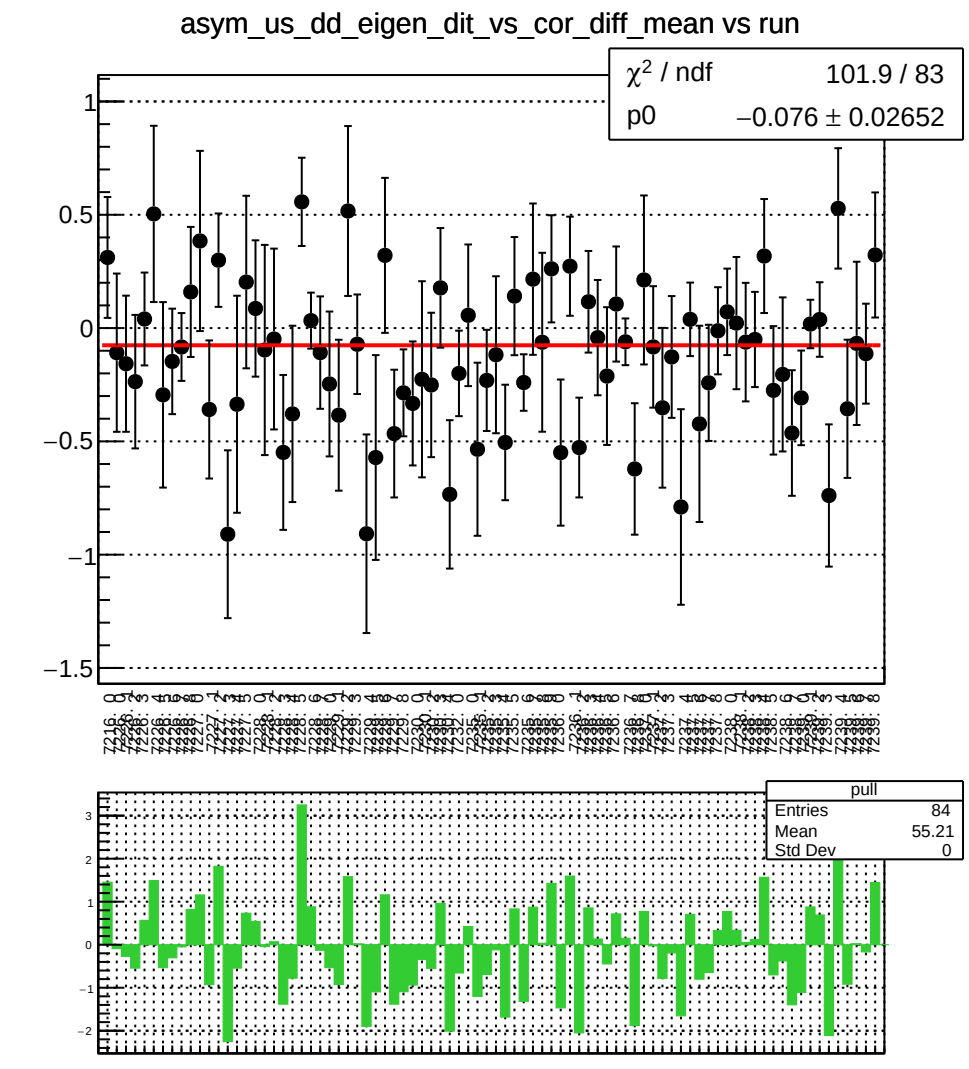

pull1D
Entries 84
Mean −0.03517
Std Dev 1.031

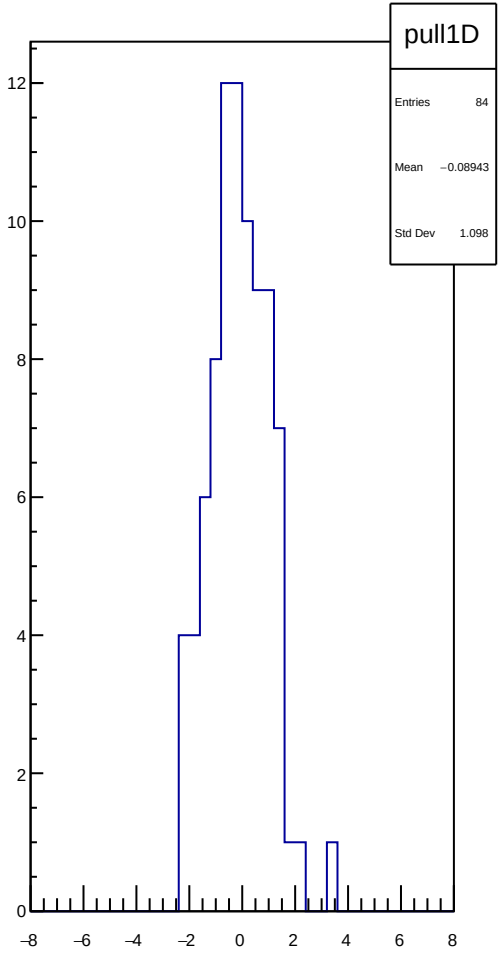

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 7.627e+04 / 83
p0 40.46 ± 0.0325
60
50
40
30
20

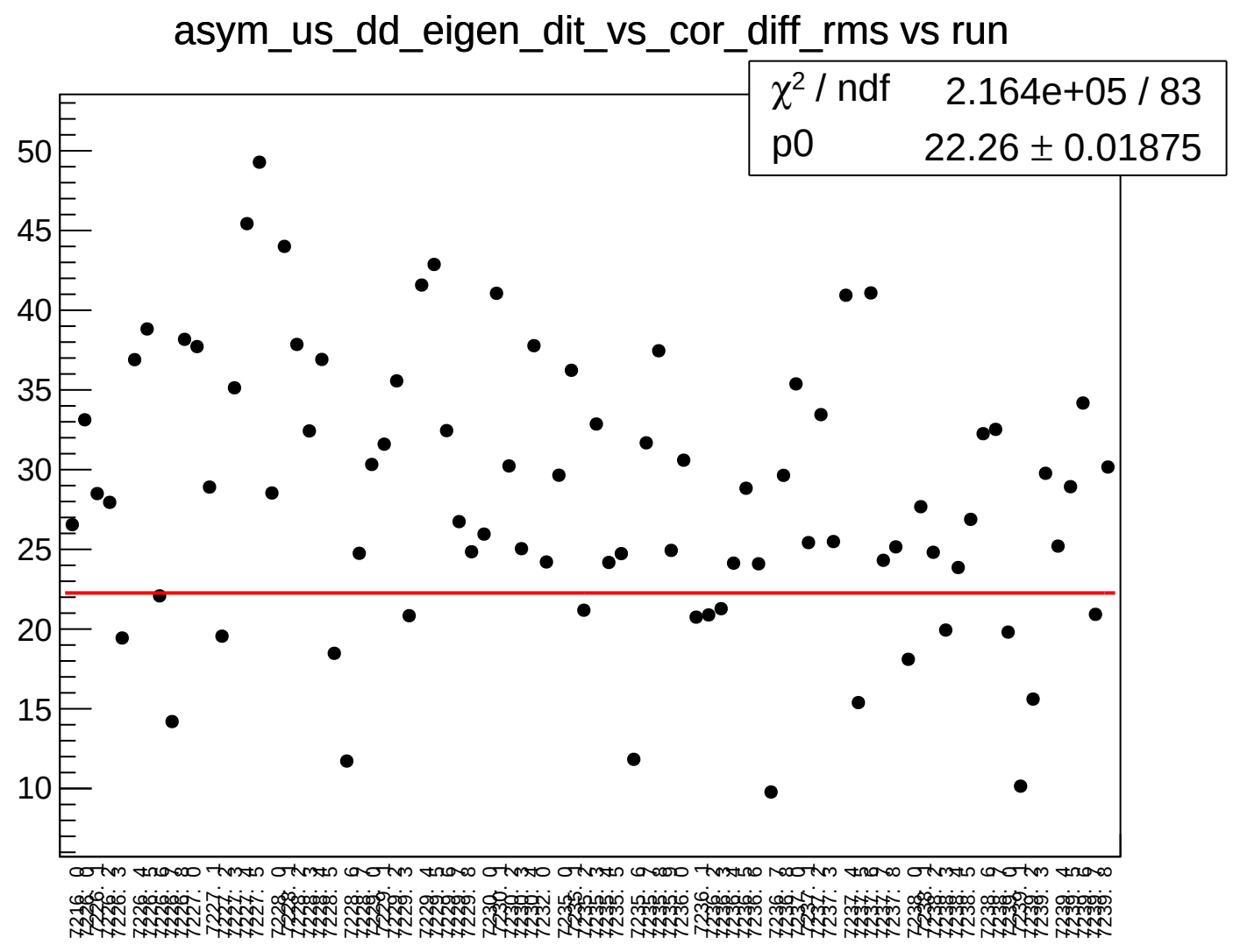

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.25 / 83
p0 −2.323e−06 ± 2.001e−06
pull
Entries 84
Mean 67.07
Std Dev 0

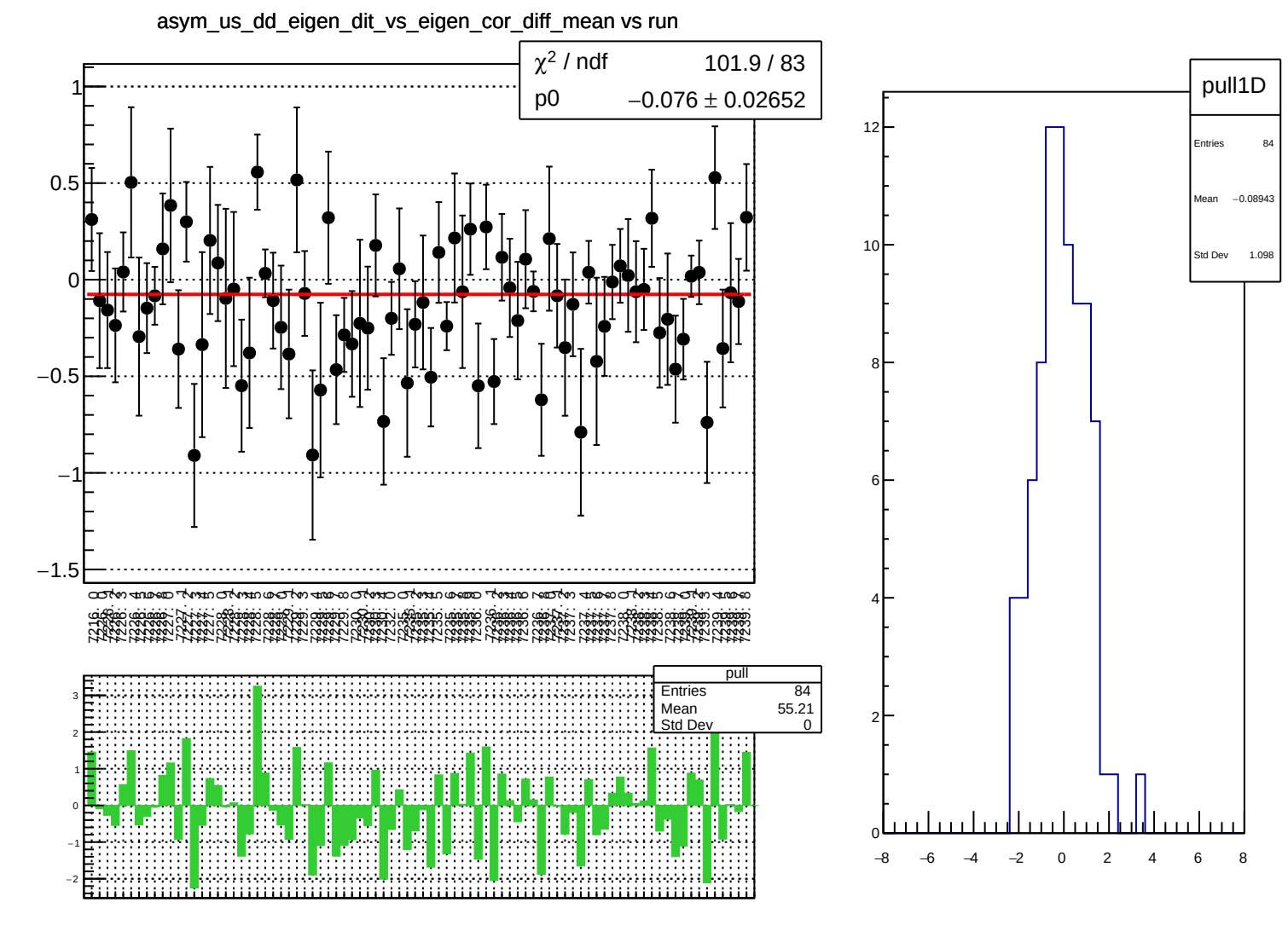

pull1D
Entries 84
Mean −0.02276
Std Dev 1.007

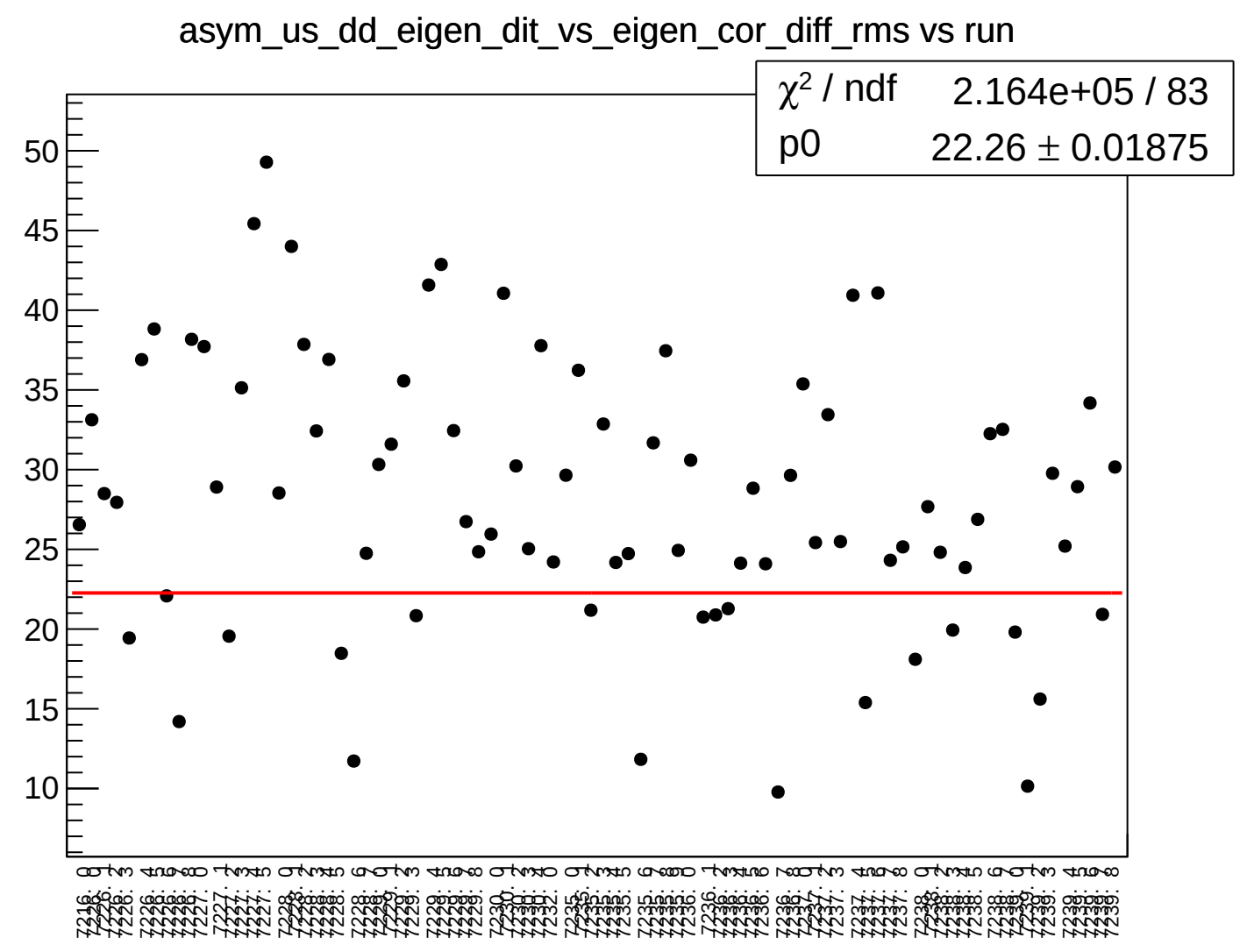

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.96e+05 / 83
p0 0.001632 ± 1.415e−06
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

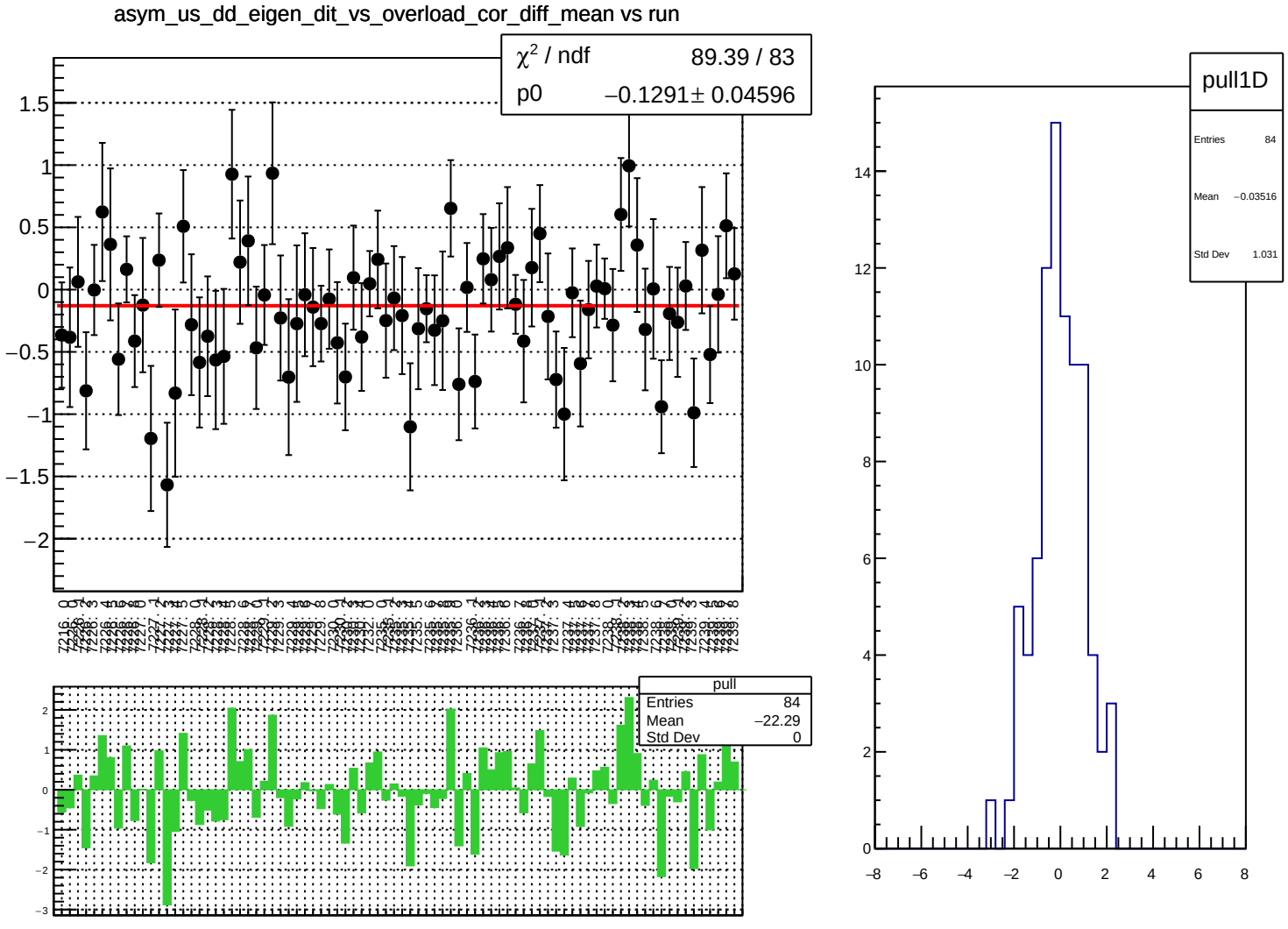

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101.9 / 83
p0 −0.076 ± 0.02652
pull
Entries 84
Mean 55.21
Std Dev 0

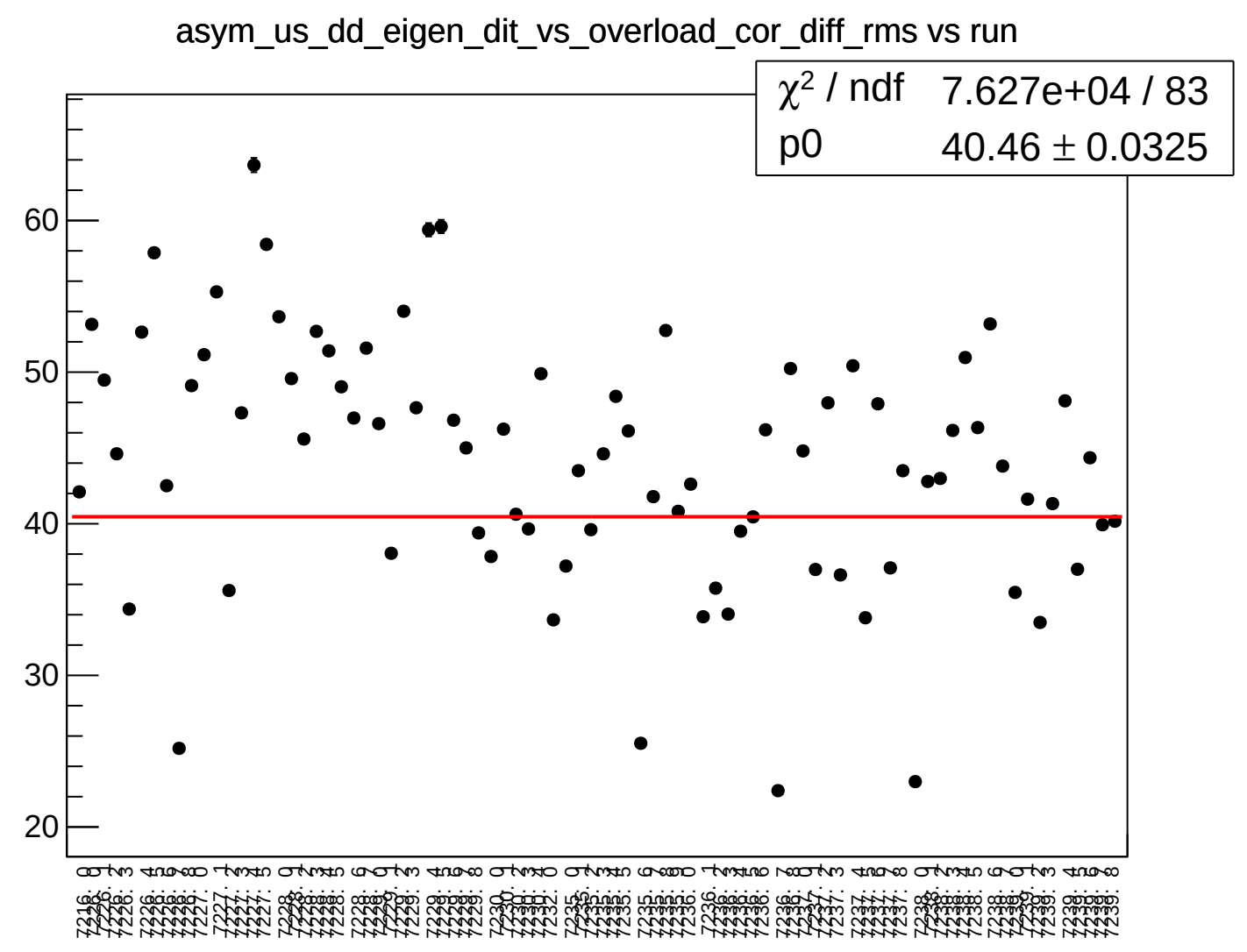

pull1D
Entries 84
Mean −0.08943
Std Dev 1.098

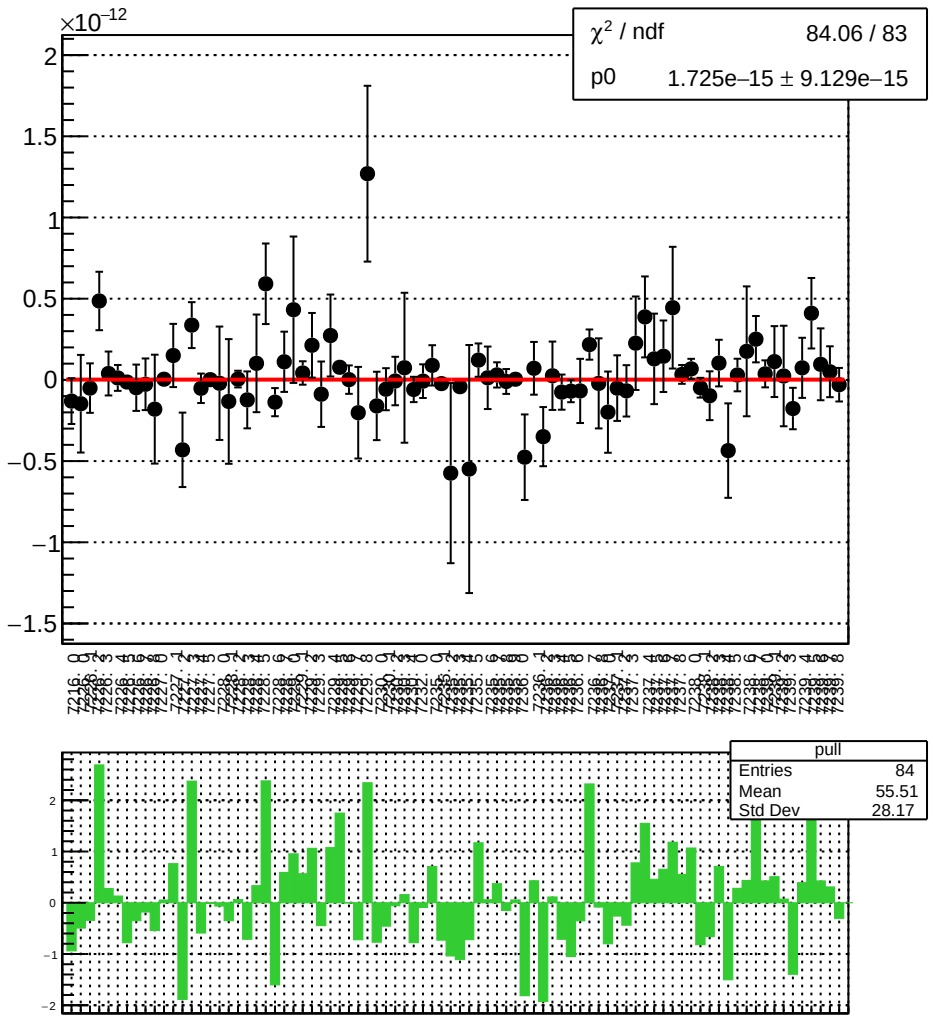

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.164e+05 / 83
p0 22.26 ± 0.01875
50
45
40
35
30
25
20
15
10

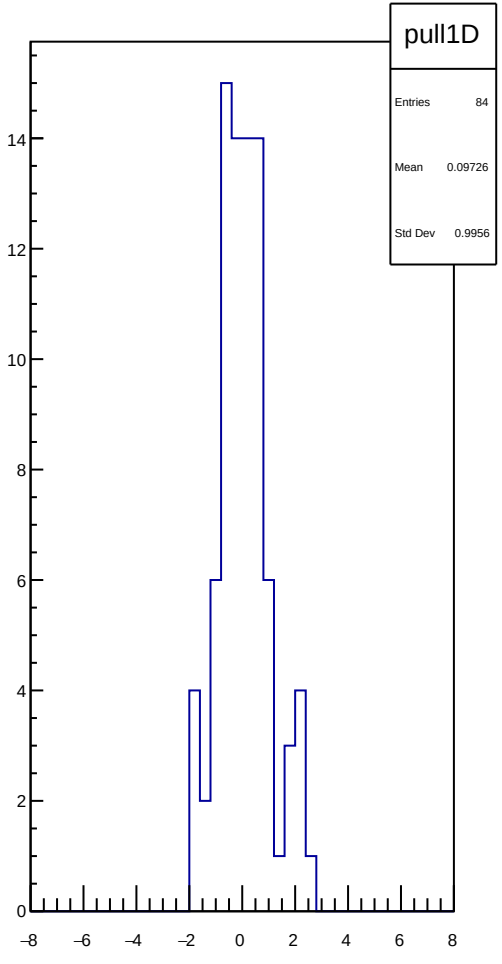

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.9 / 83
p0 −0.076 ± 0.02652
pull
Entries 84
Mean 55.21
Std Dev 0
pull1D
Entries 84
Mean −0.08943
Std Dev 1.098

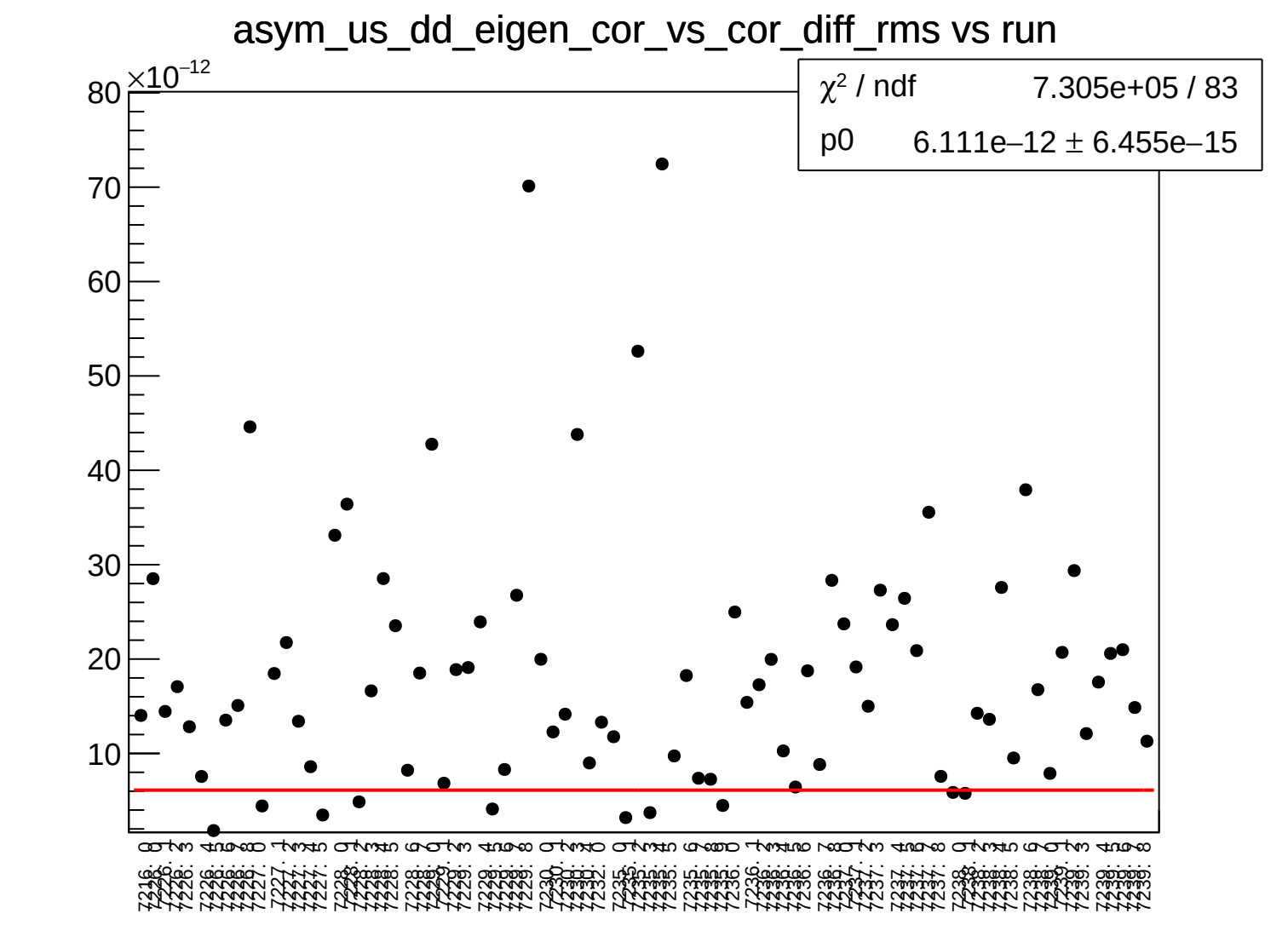

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.164e+05 / 83
p0 22.26 ± 0.01875
50
45
40
35
30
25
20
15
10

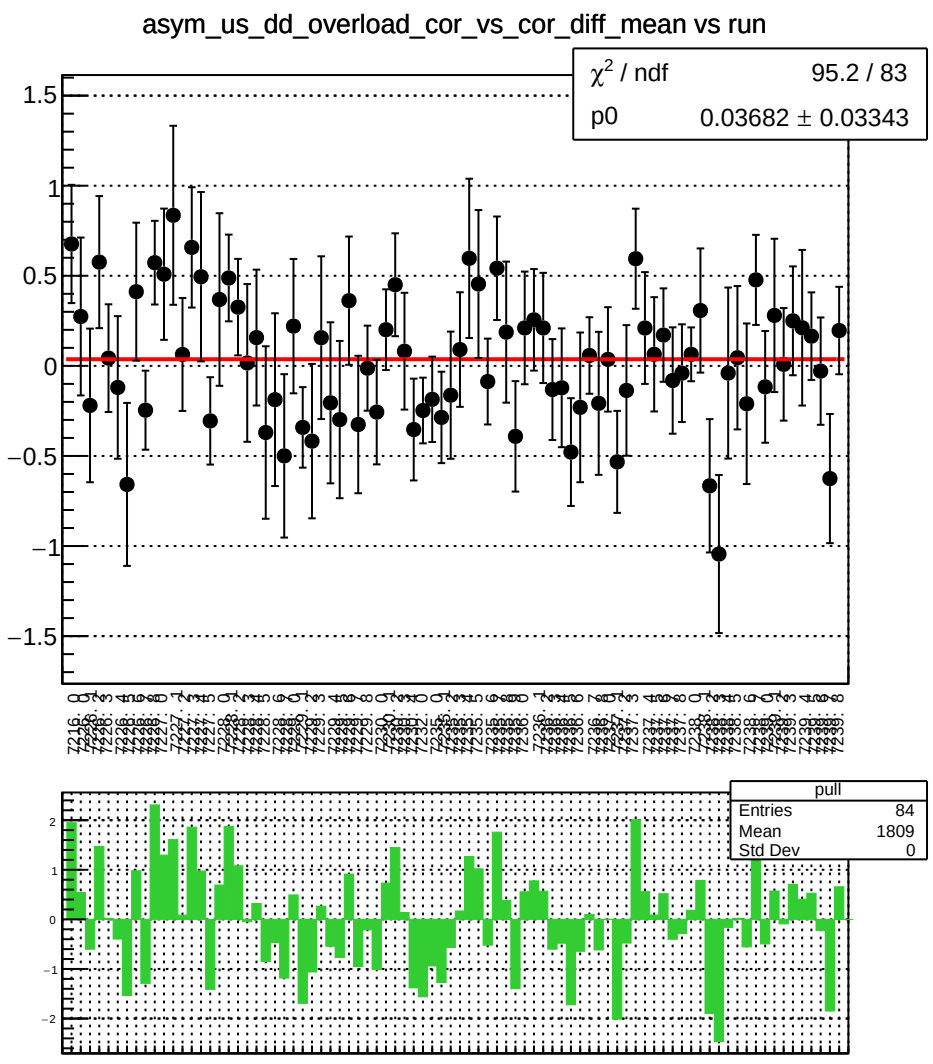

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 89.39 / 83
p0 −0.1291± 0.04596
pull
Entries 84
Mean −22.29
Std Dev 0
pull1D
Entries 84
Mean −0.03516
Std Dev 1.031

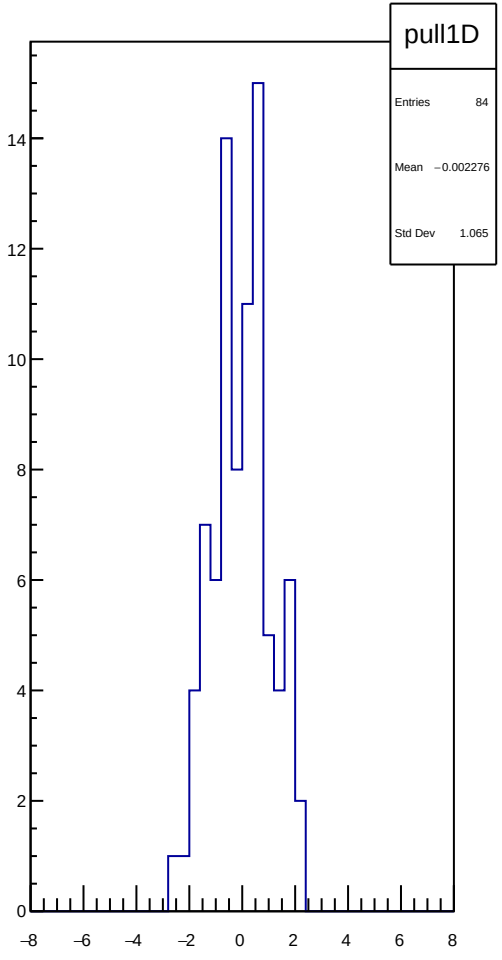

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 7.627e+04 / 83
p0 40.46 ± 0.0325
60
50
40
30
20

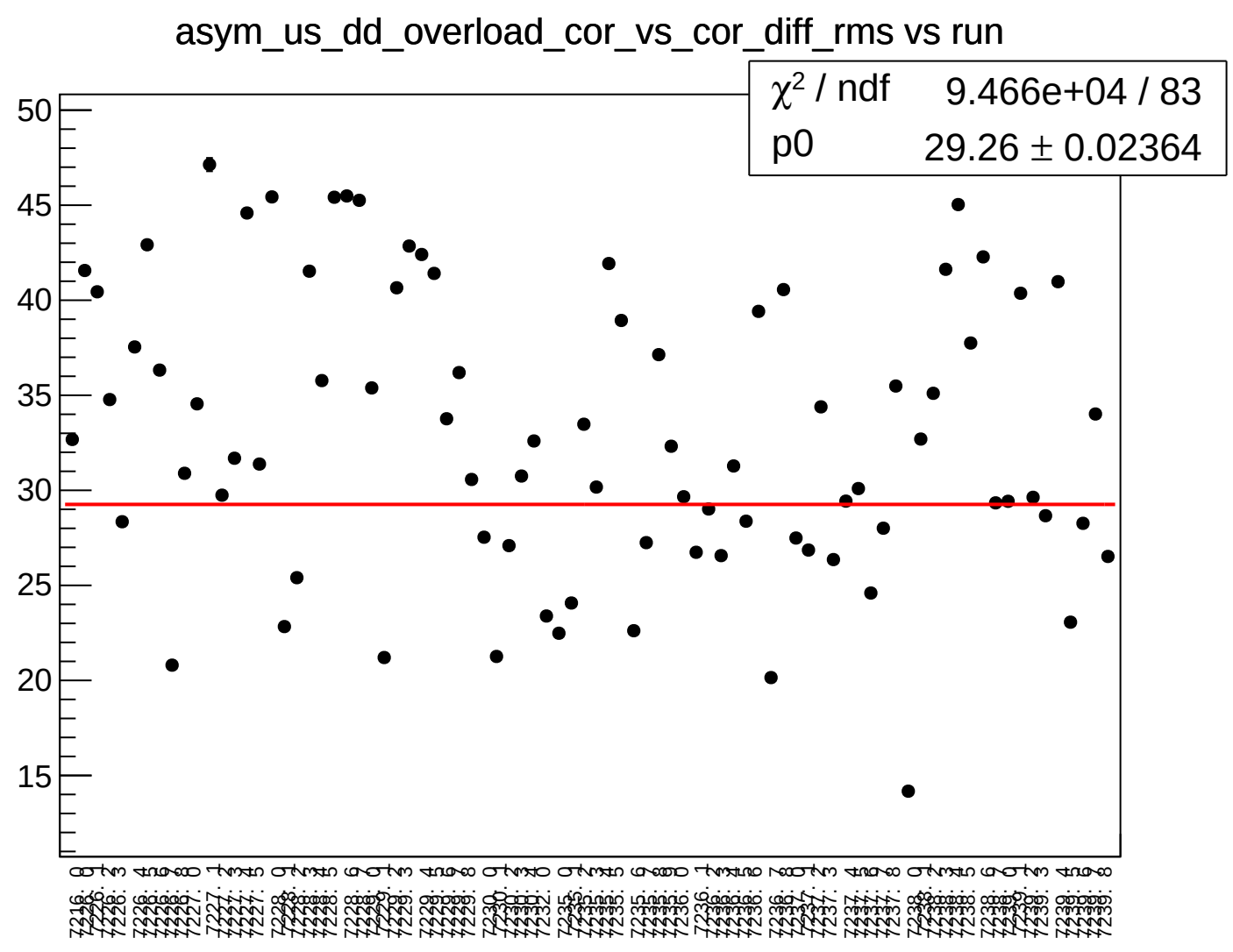

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.06 / 83
p0 1.725e−15 ± 9.129e−15
pull
Entries 84
Mean 55.51
Std Dev 28.17

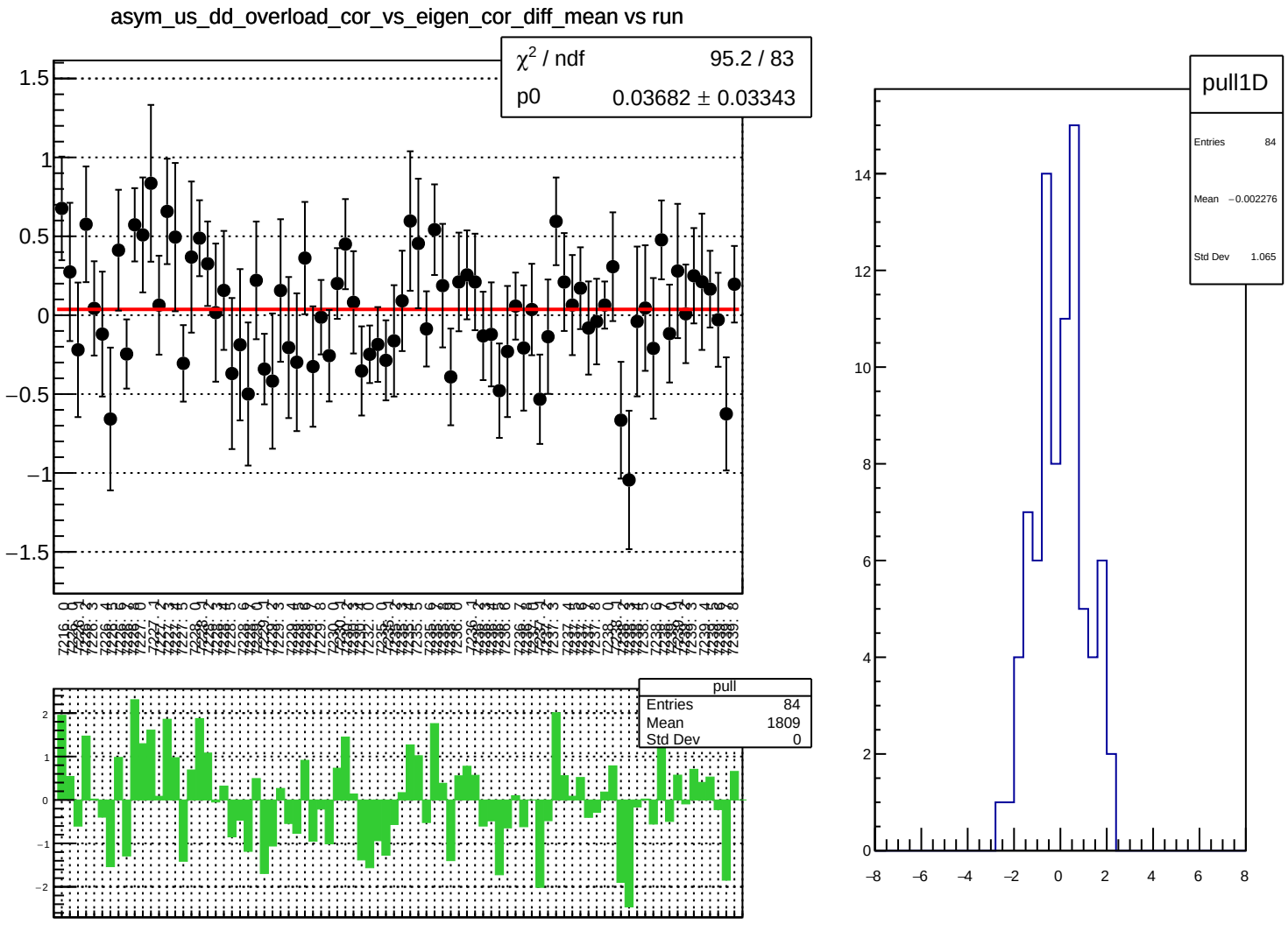

pull1D
Entries 84
Mean 0.09726
Std Dev 0.9956

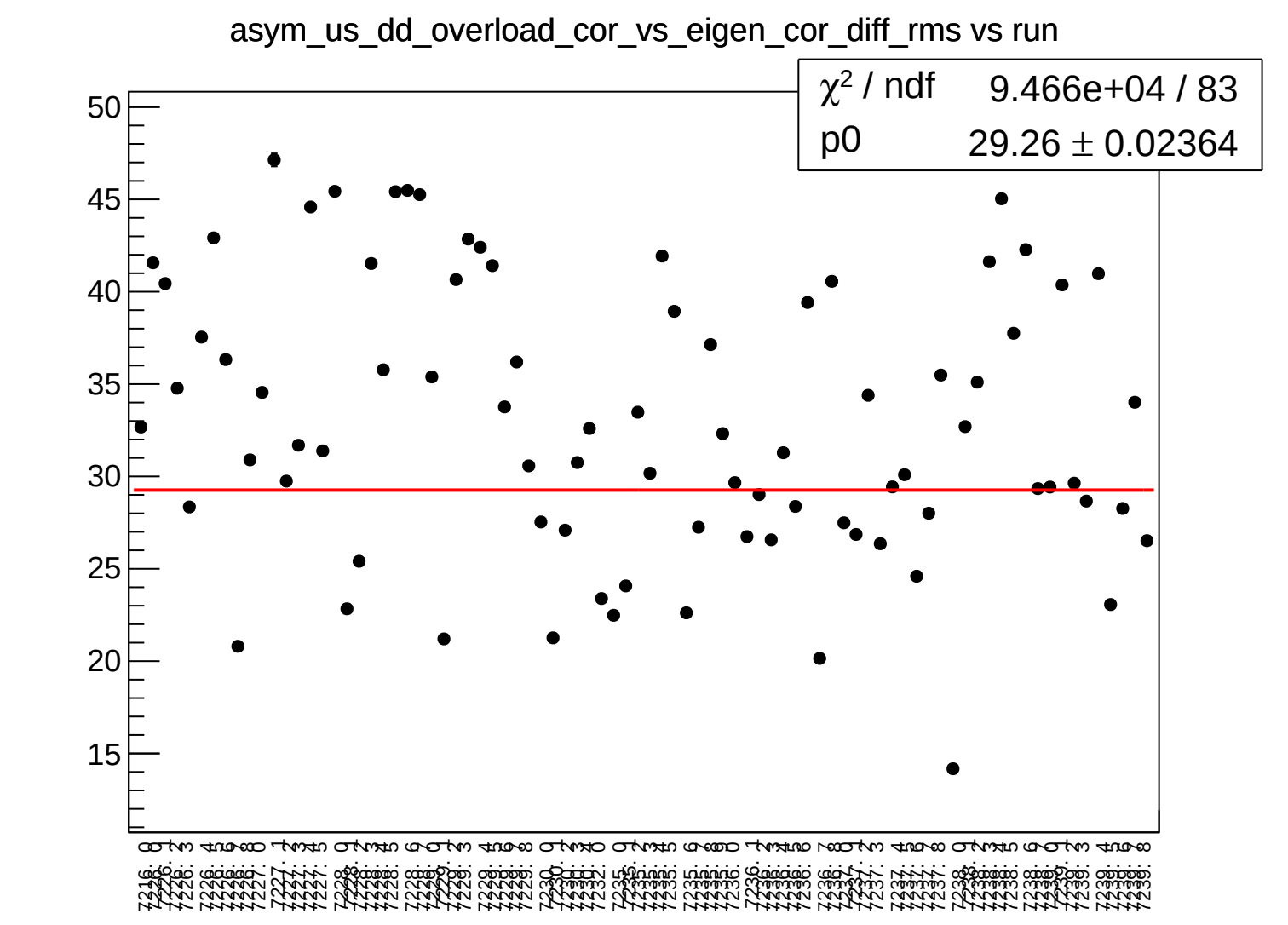

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
80
70
60
50
40
30
20
10
χ² / ndf 7.305e+05 / 83
p0 6.111e−12 ± 6.455e−15

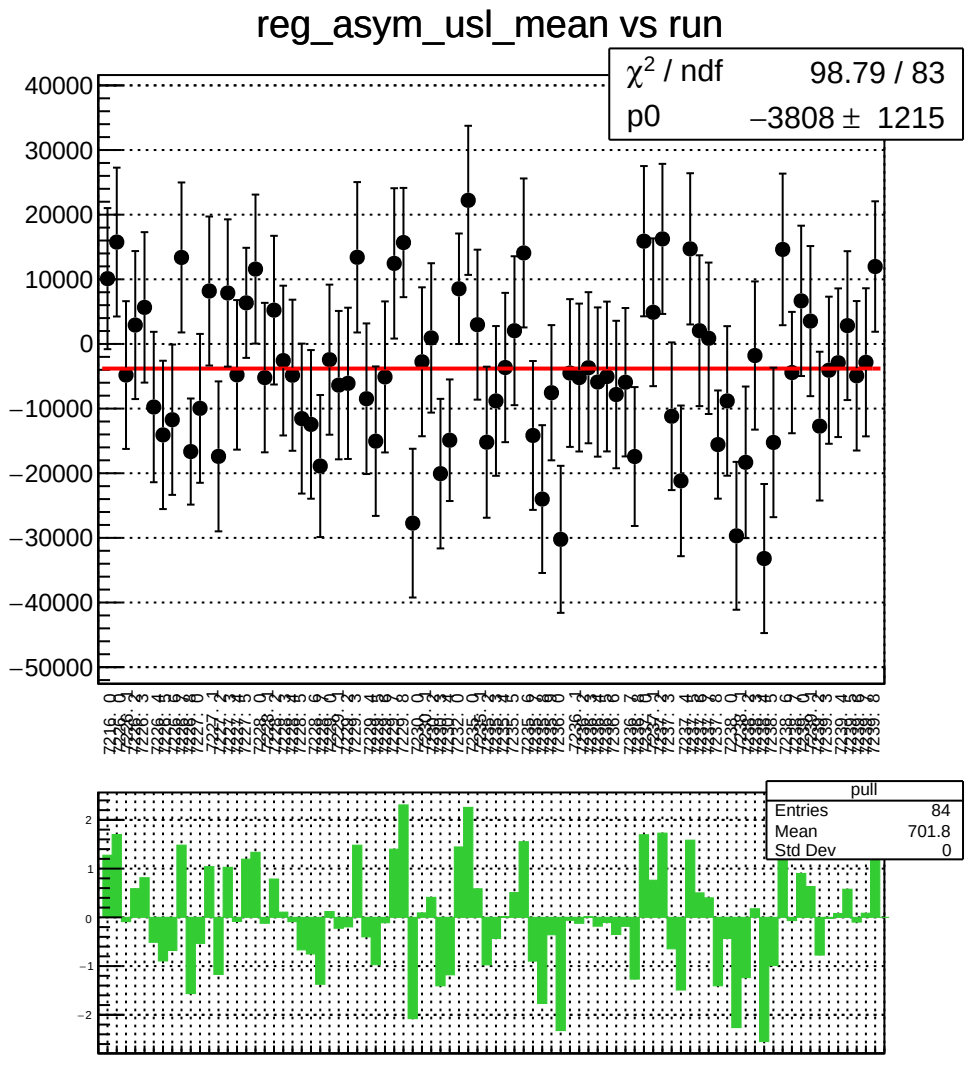

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 95.2 / 83
p0 0.03682 ± 0.03343
pull
Entries 84
Mean 1809
Std Dev 0

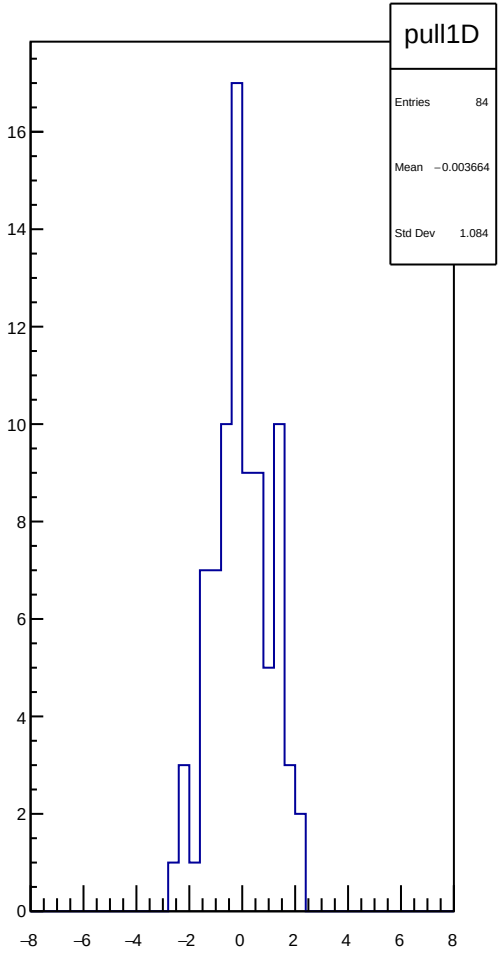

pull1D
Entries 84
Mean −0.002276
Std Dev 1.065

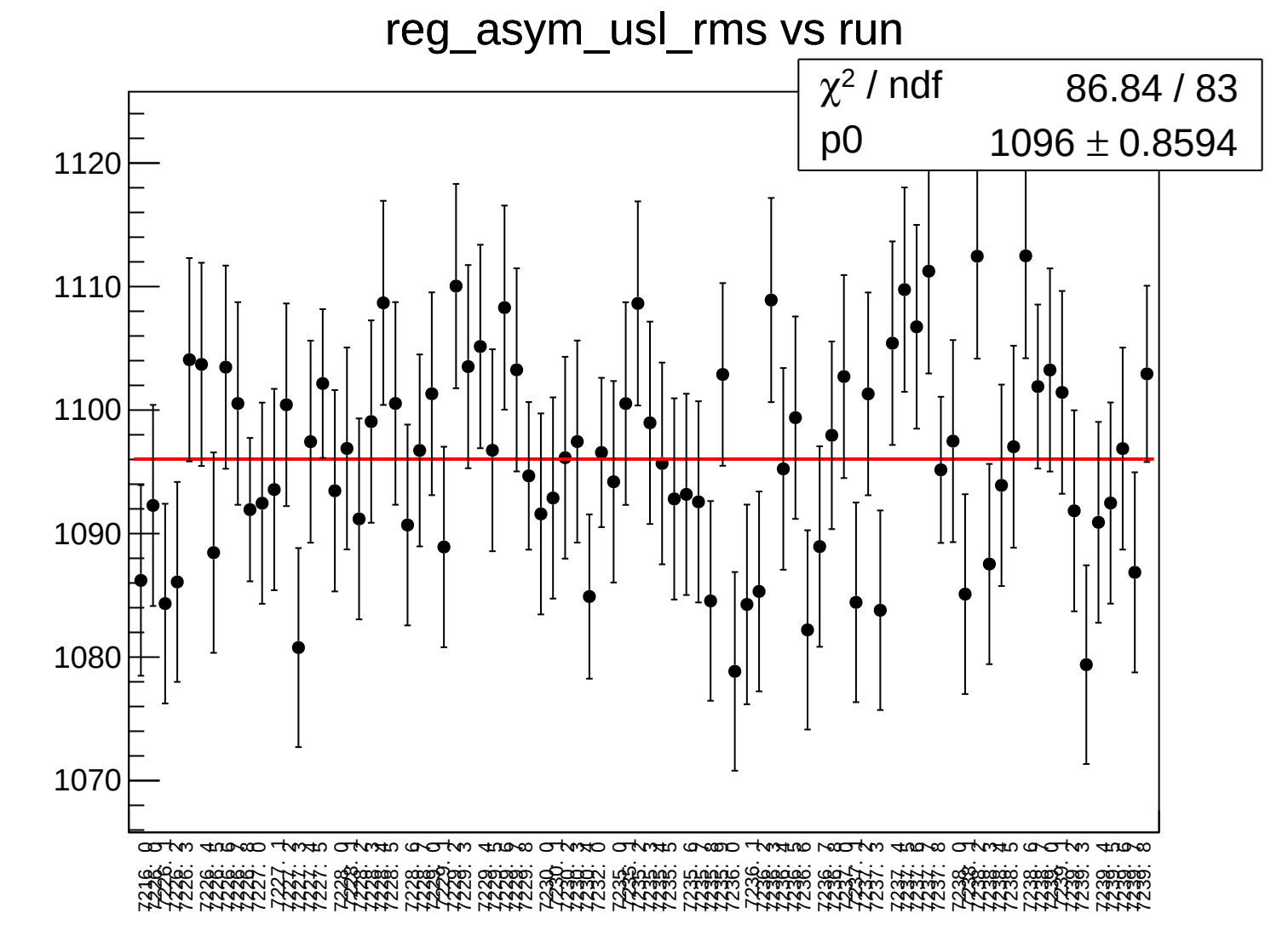

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 9.466e+04 / 83
p0 29.26 ± 0.02364
50
45
40
35
30
25
20
15

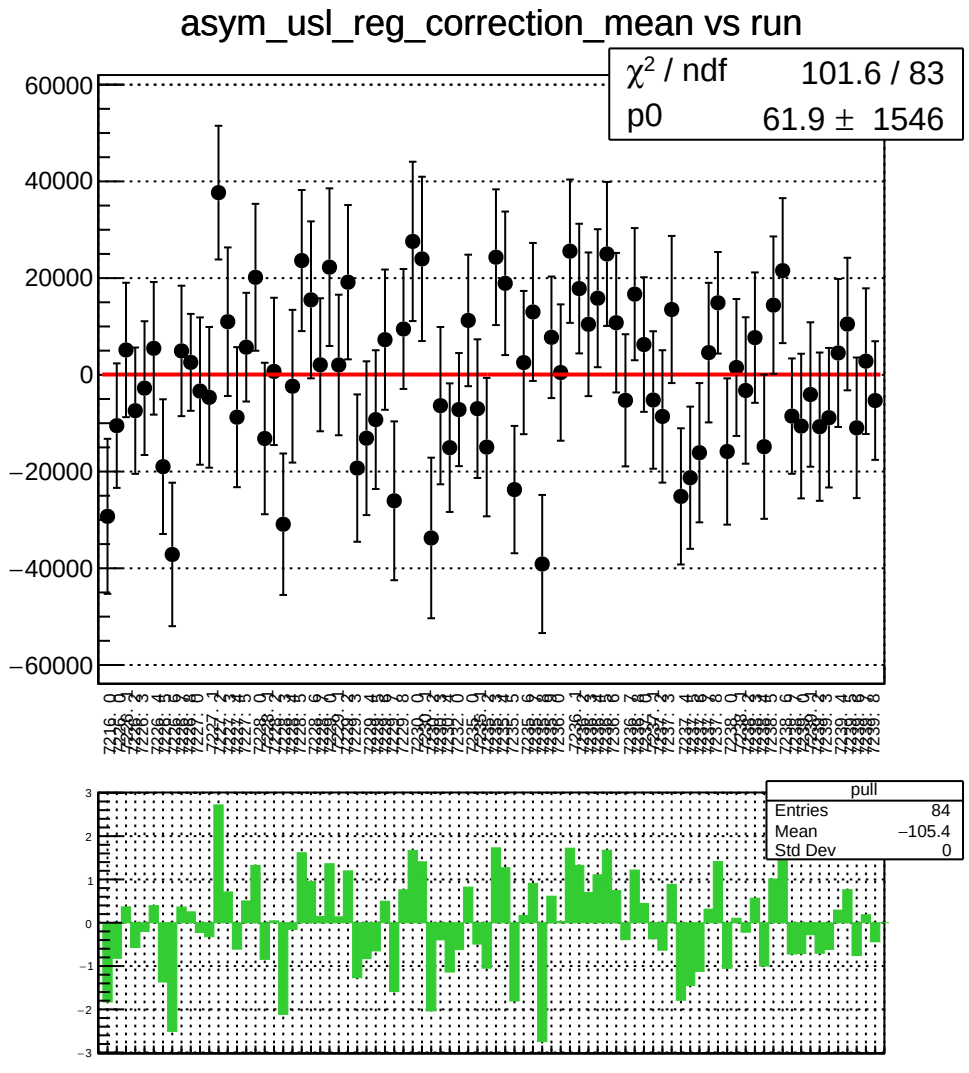

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.2 / 83
p0 0.03682 ± 0.03343
pull
Entries 84
Mean 1809
Std Dev 0
pull1D
Entries 84
Mean −0.002276
Std Dev 1.065

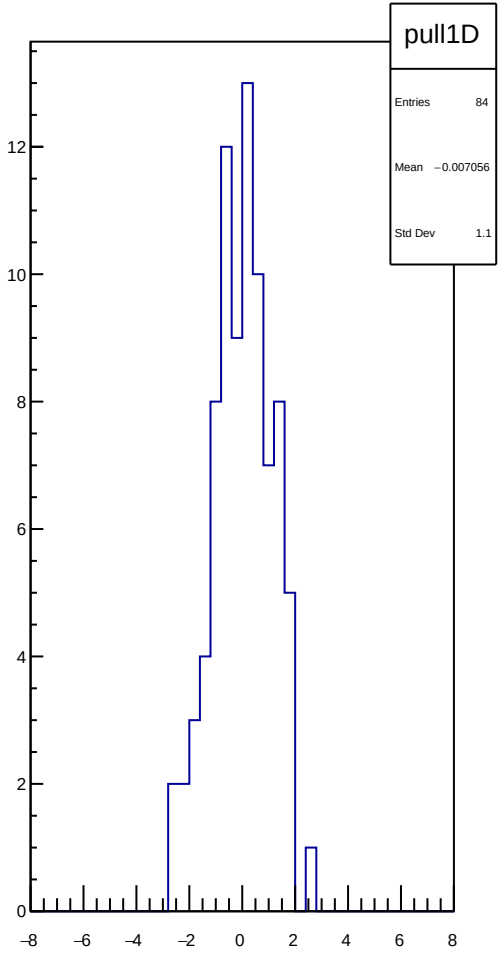

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.466e+04 / 83
p0 29.26 ± 0.02364
50
45
40
35
30
25
20
15

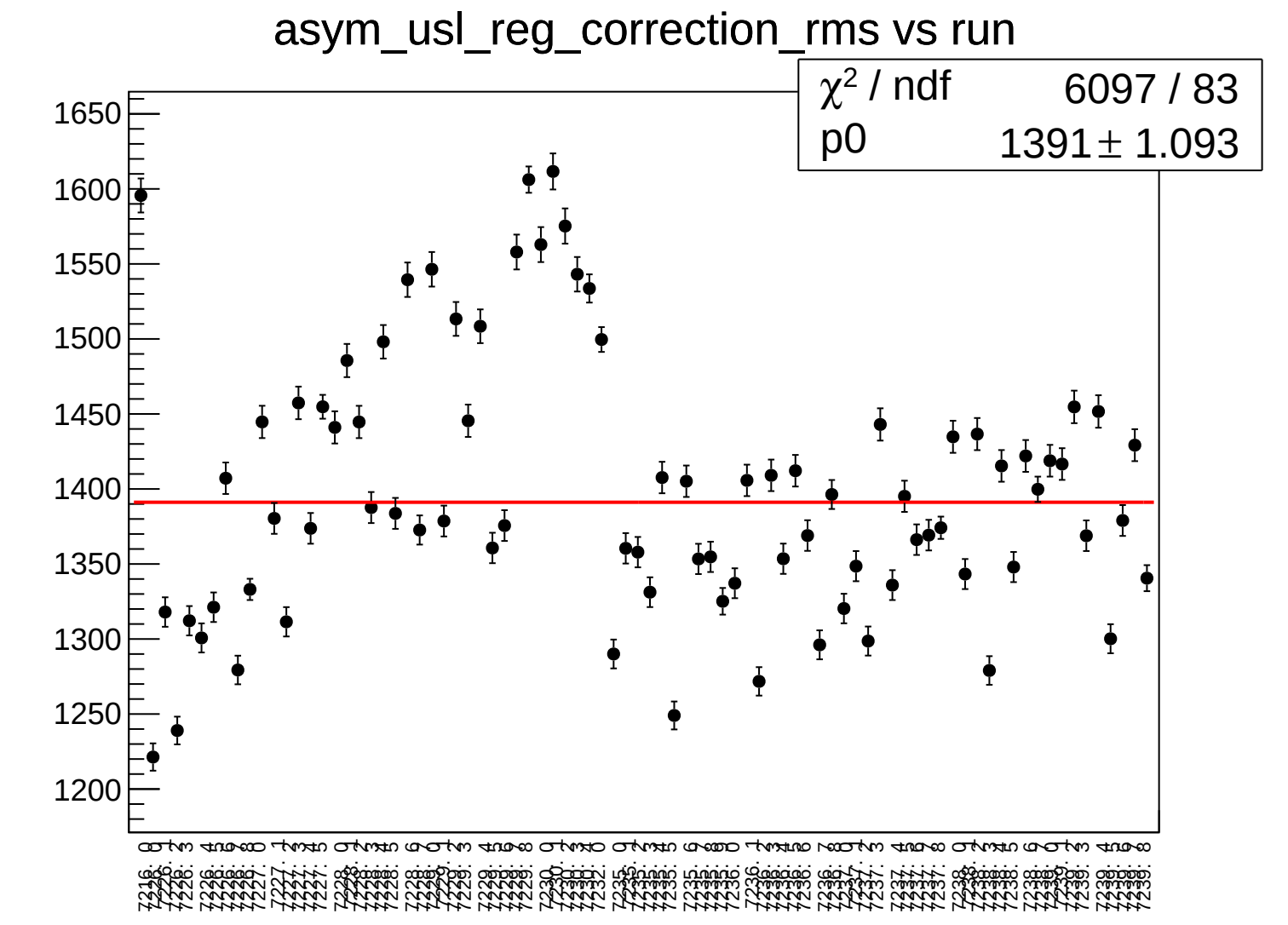

reg_asym_usl_mean vs run
χ² / ndf 98.79 / 83
p0 −3808 ± 1215
pull
Entries 84
Mean 701.8
Std Dev 0

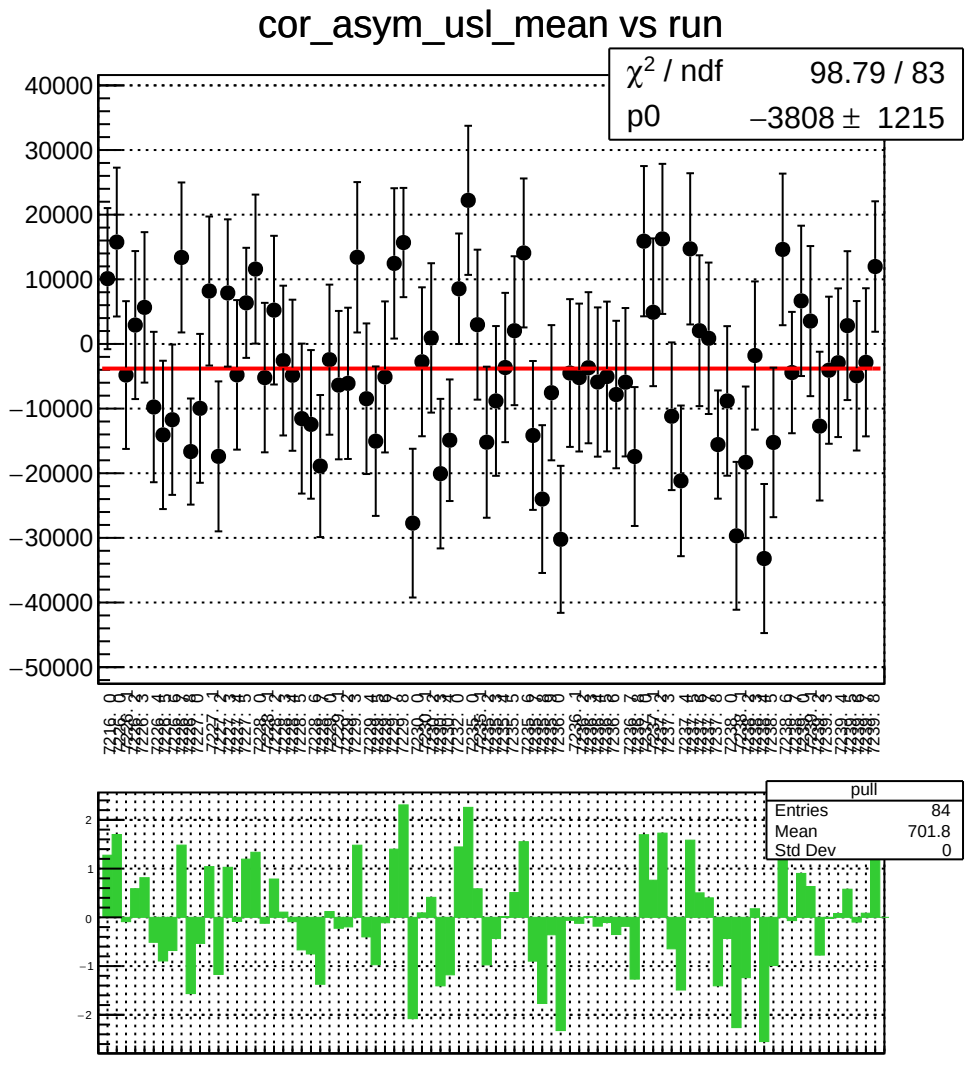

pull1D
Entries 84
Mean −0.003664
Std Dev 1.084

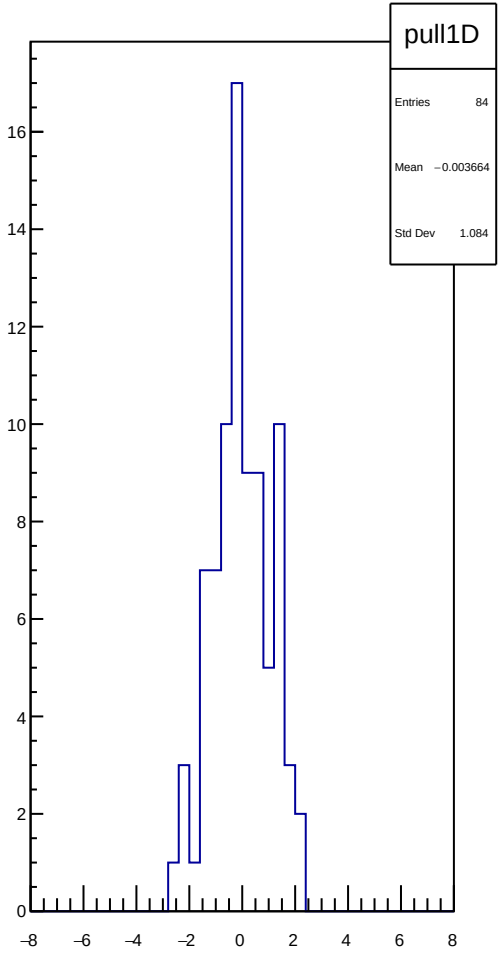

reg_asym_usl_rms vs run
χ² / ndf 86.84 / 83
p0 1096 ± 0.8594
1120
1110
1100
1090
1080
1070

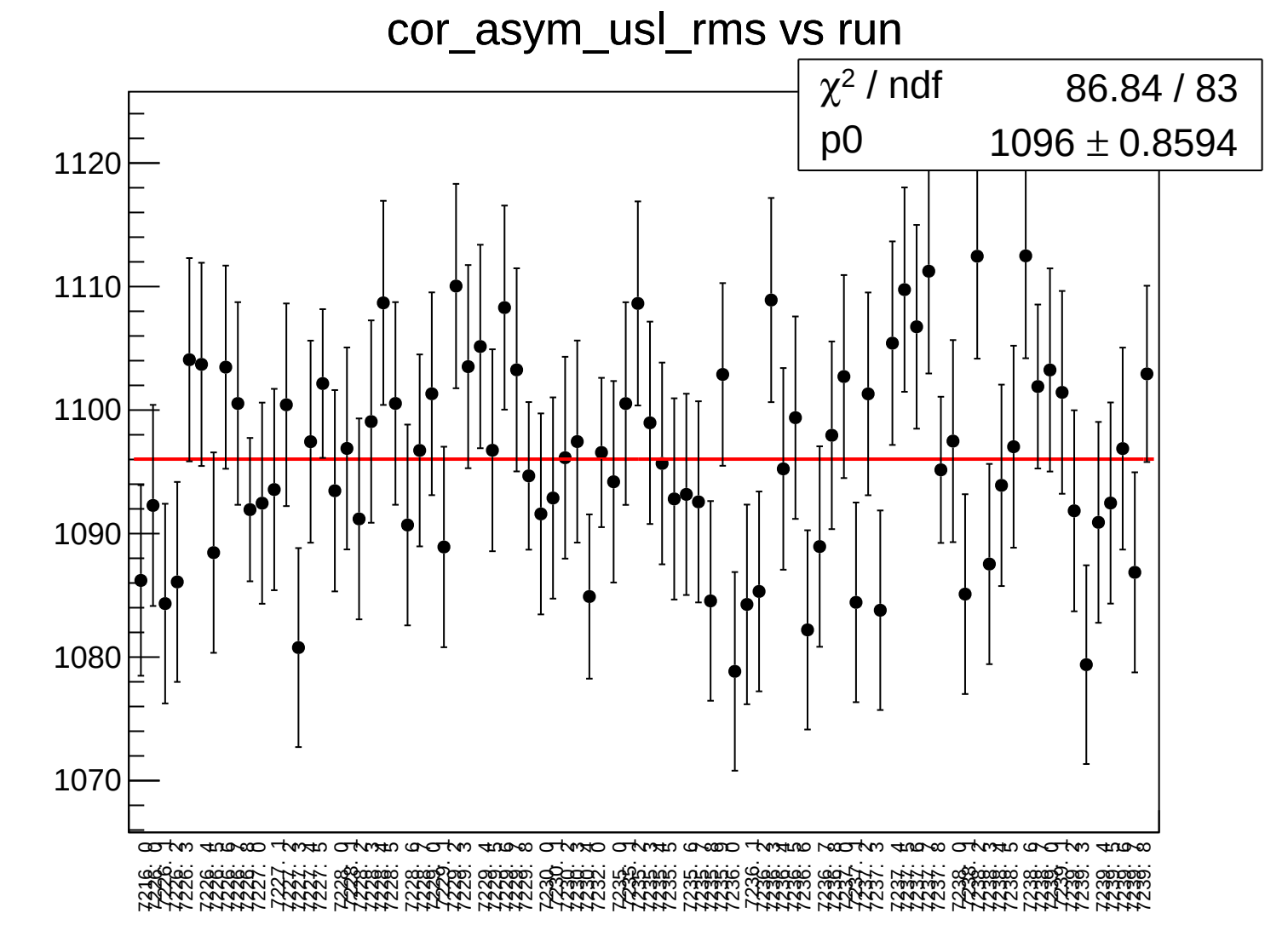

asym_usl_reg_correction_mean vs run
χ² / ndf 101.6 / 83
p0 61.9 ± 1546
pull
Entries 84
Mean −105.4
Std Dev 0

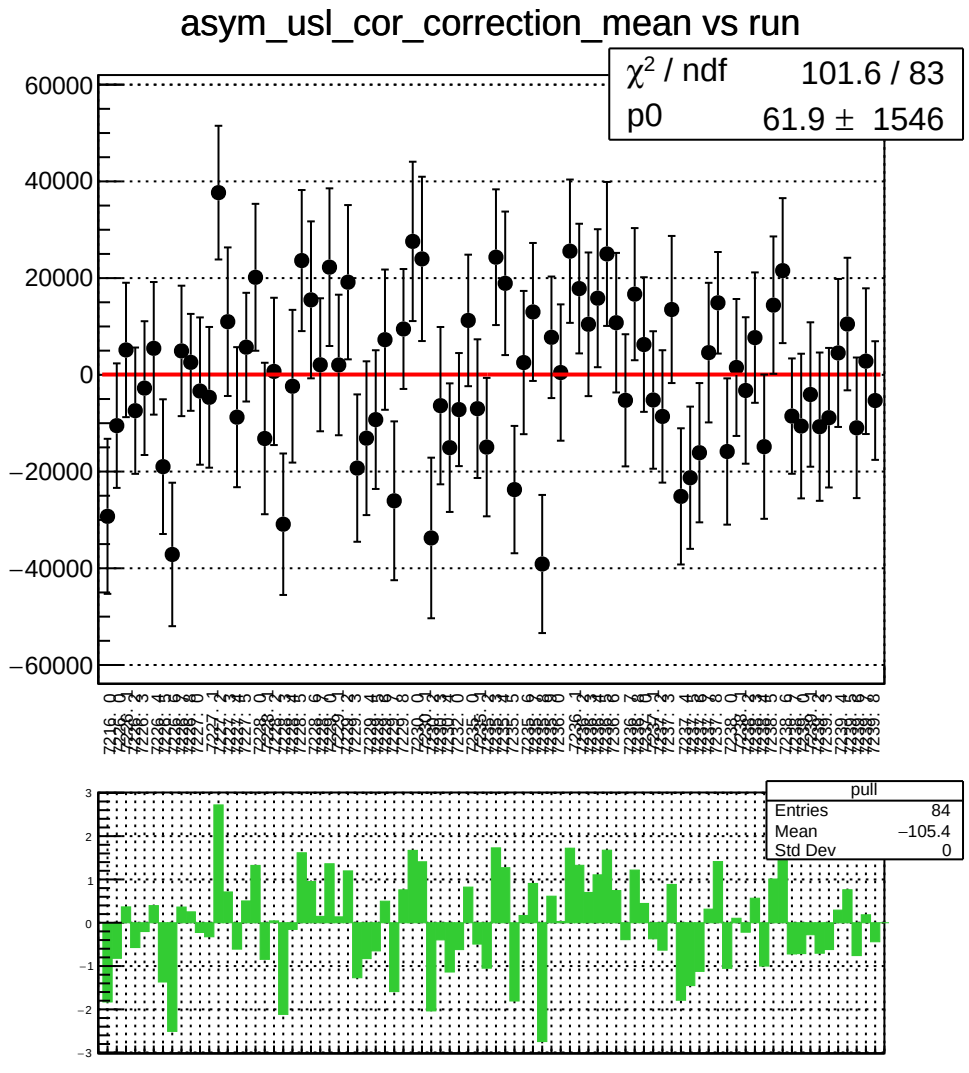

pull1D
Entries 84
Mean −0.007056
Std Dev 1.1

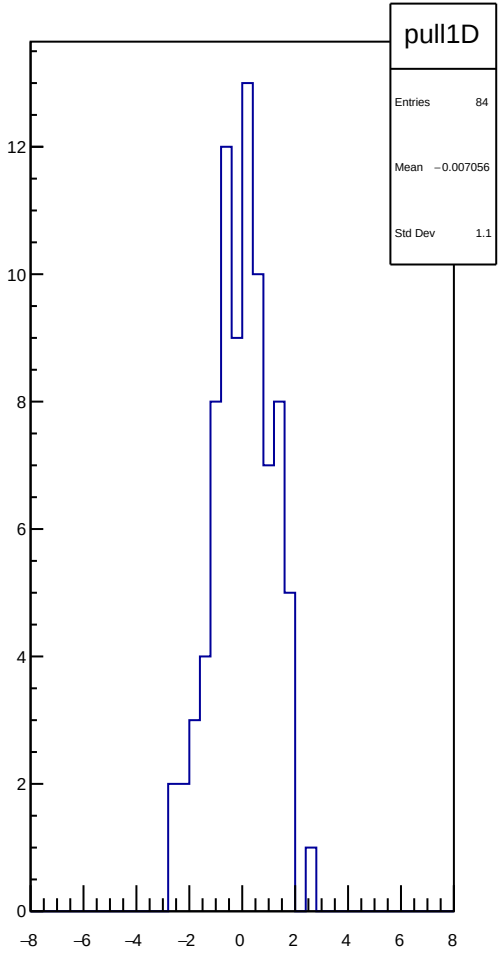

asym_usl_reg_correction_rms vs run
χ² / ndf 6097 / 83
p0 1391 ± 1.093
1650
1600
1550
1500
1450
1400
1350
1300
1250
1200

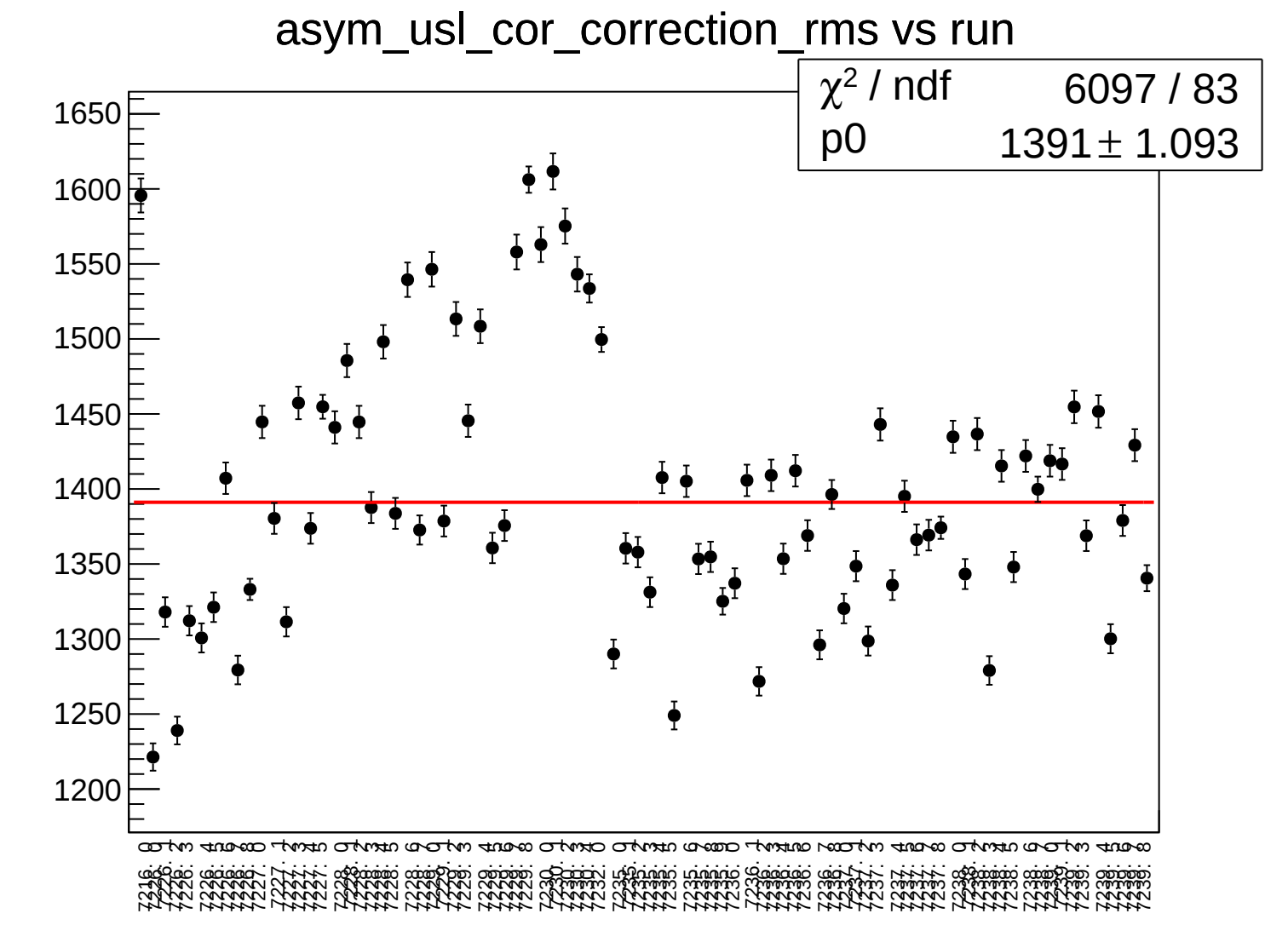

cor_asym_usl_mean vs run
χ² / ndf 98.79 / 83
p0 −3808 ± 1215
pull
Entries 84
Mean 701.8
Std Dev 0

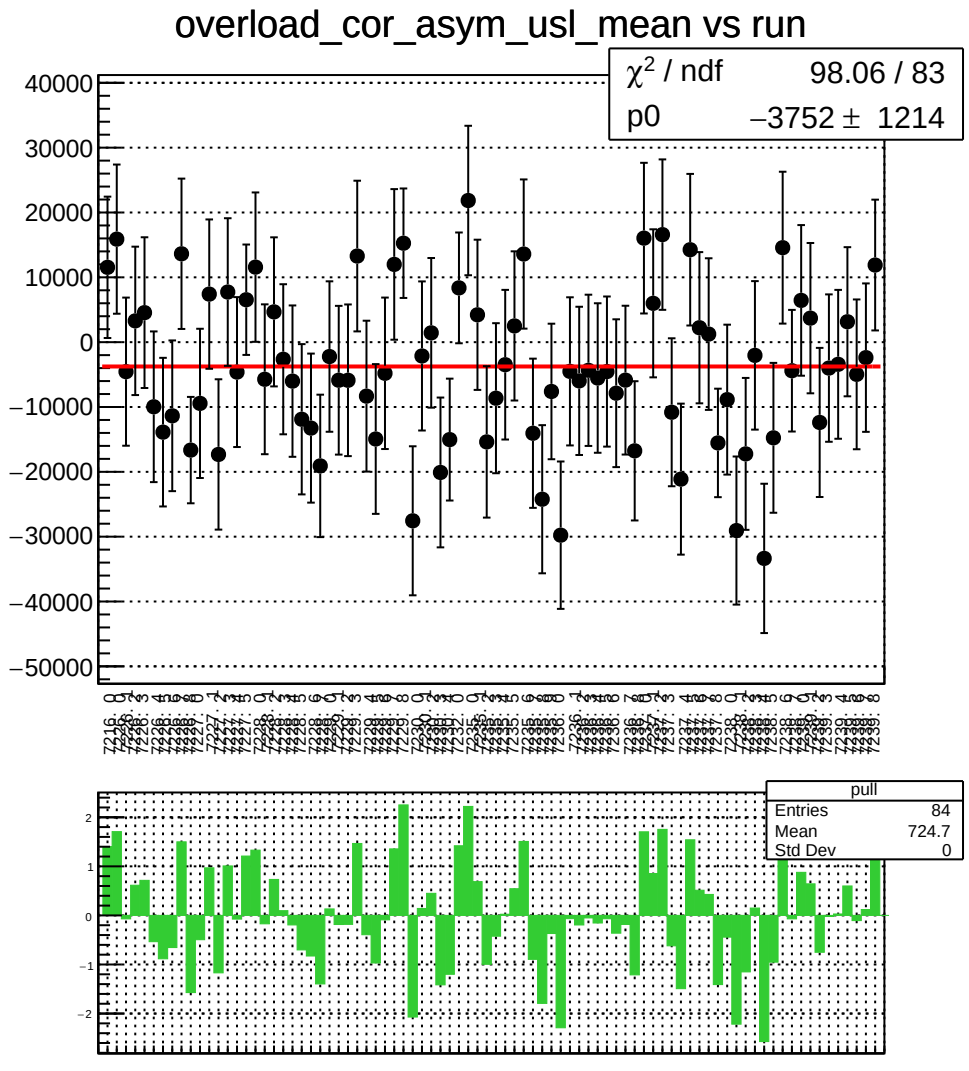

pull1D
Entries 84
Mean −0.003664
Std Dev 1.084

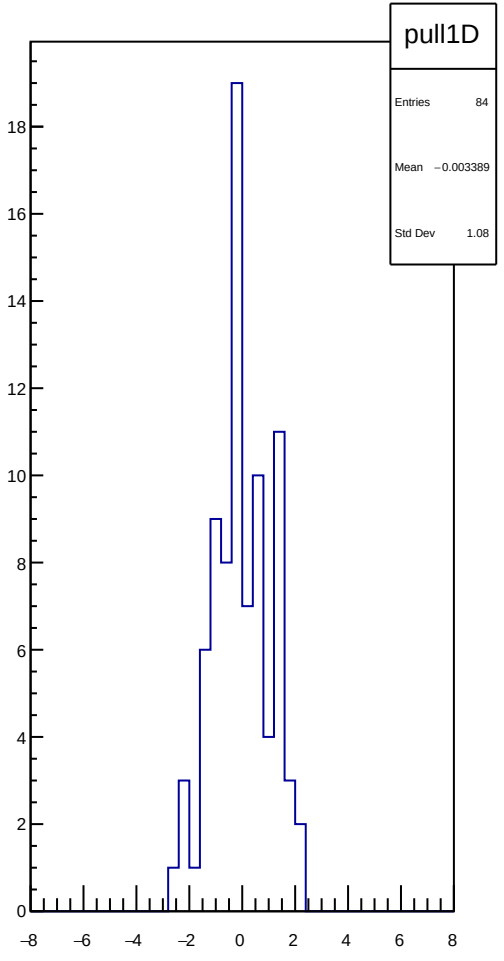

cor_asym_usl_rms vs run
χ² / ndf 86.84 / 83
p0 1096 ± 0.8594
1120
1110
1100
1090
1080
1070

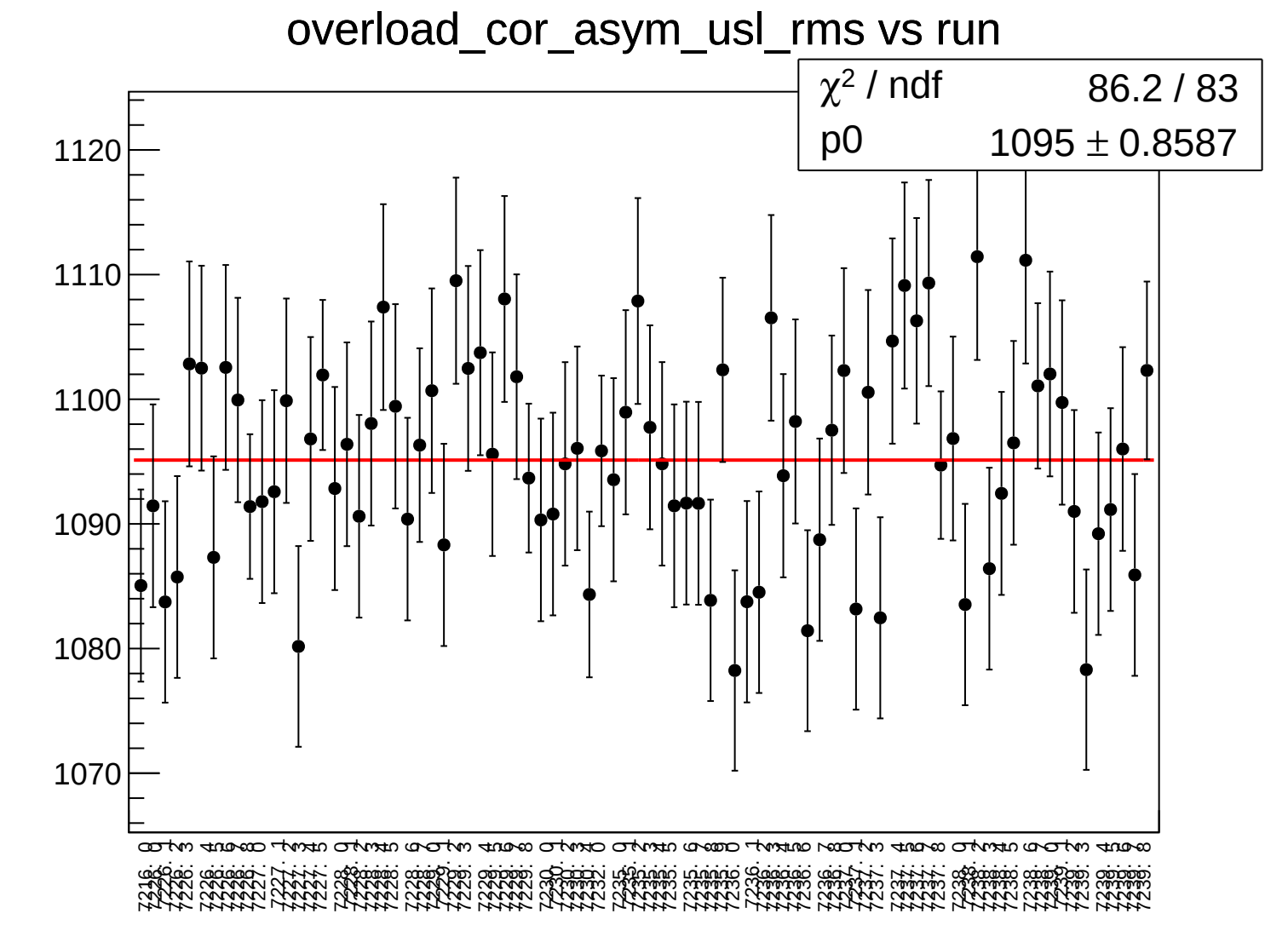

asym_usl_cor_correction_mean vs run
χ² / ndf 101.6 / 83
p0 61.9 ± 1546
pull
Entries 84
Mean −105.4
Std Dev 0

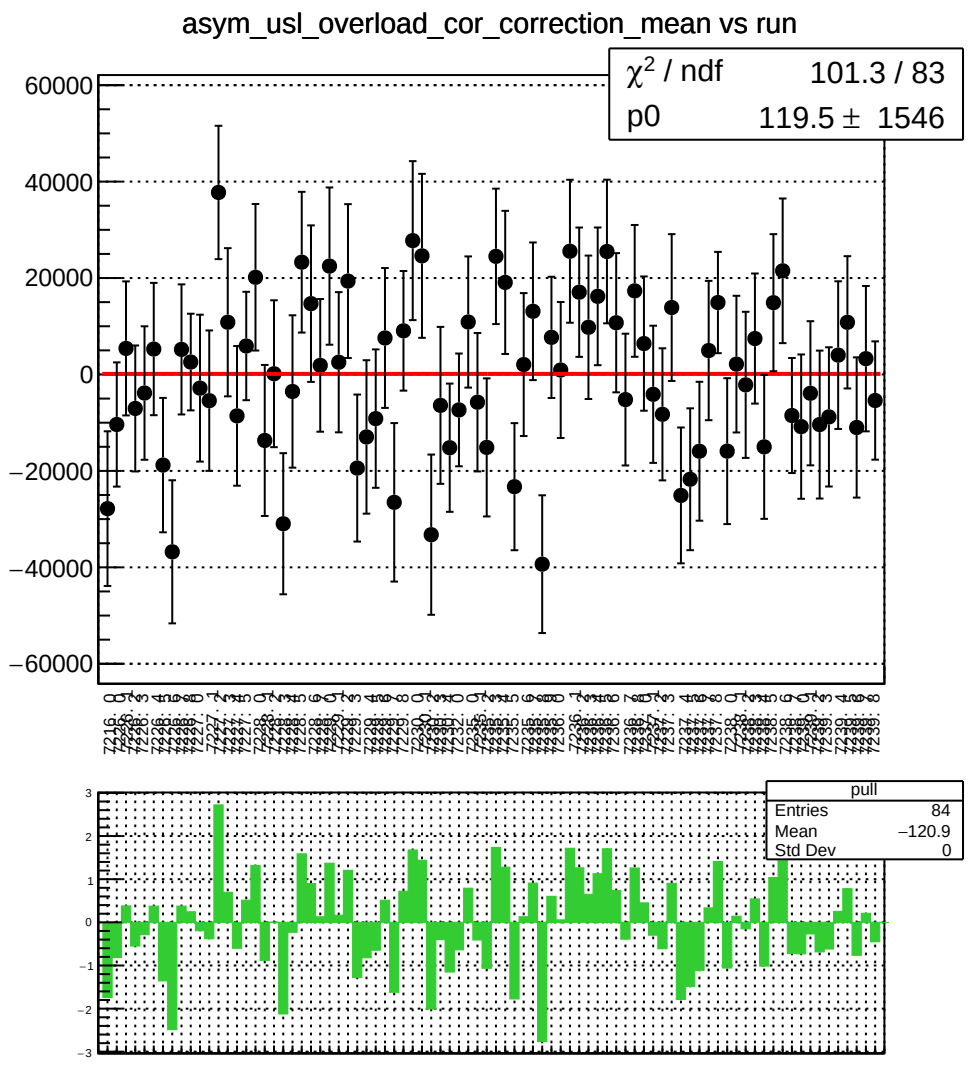

pull1D
Entries 84
Mean −0.007056
Std Dev 1.1

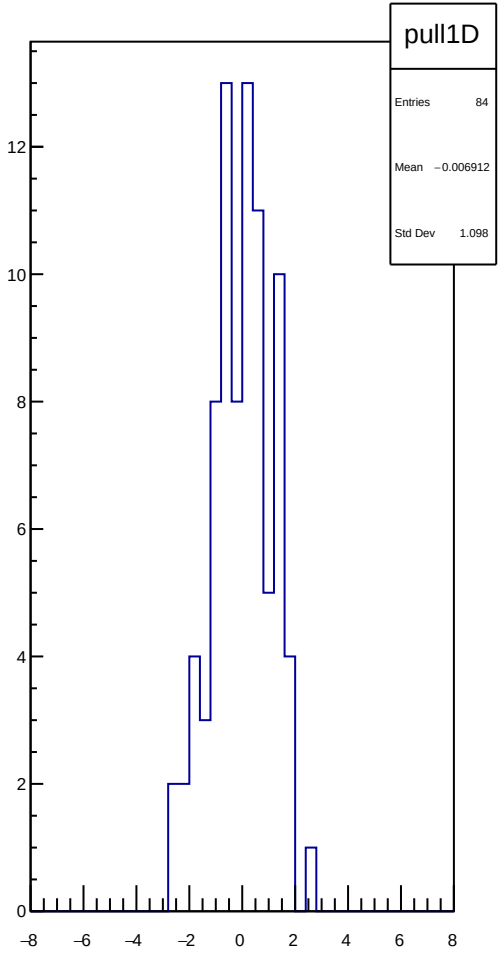

asym_usl_cor_correction_rms vs run
χ² / ndf 6097 / 83
p0 1391 ± 1.093
1650
1600
1550
1500
1450
1400
1350
1300
1250
1200

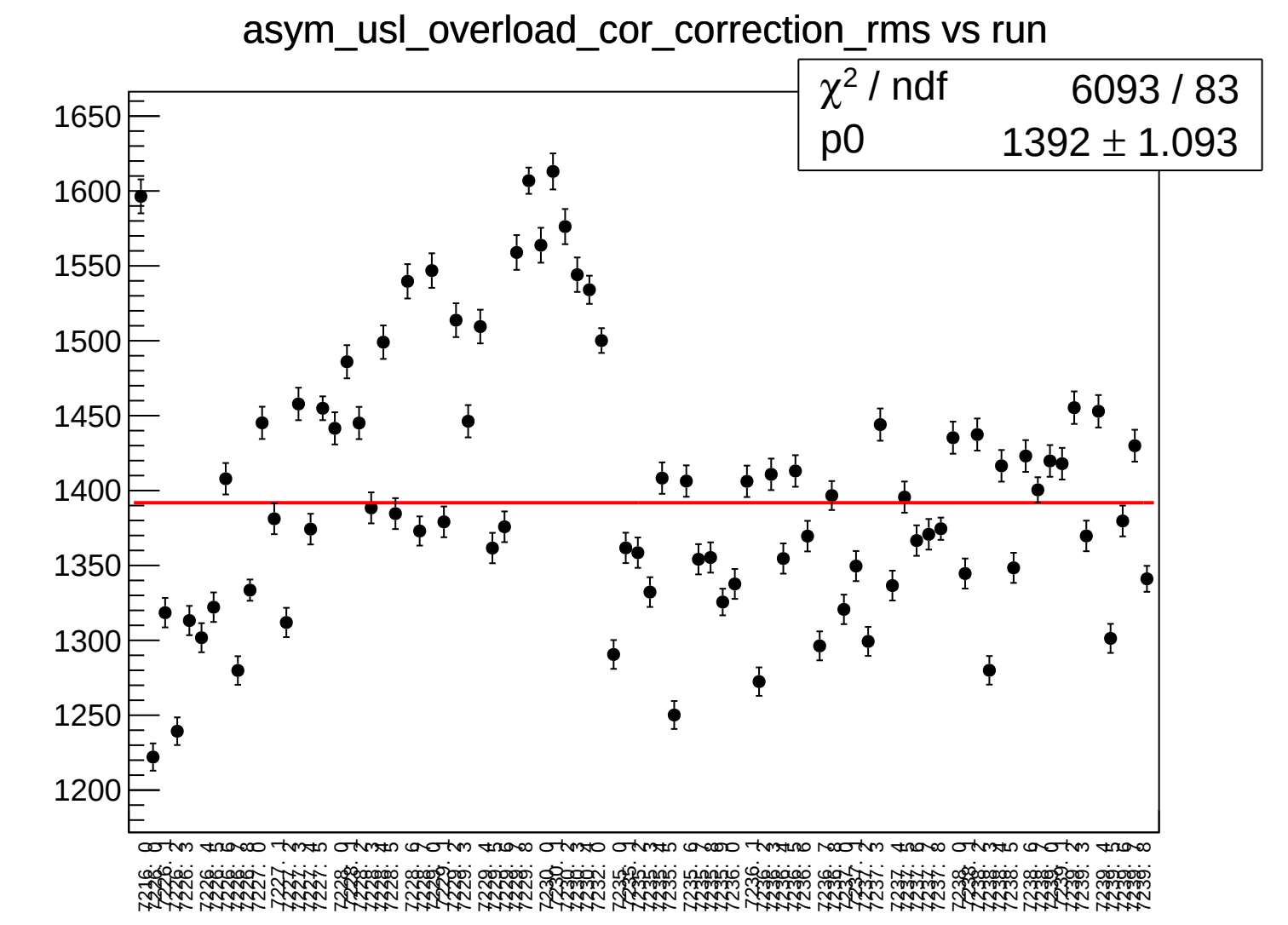

overload_cor_asym_usl_mean vs run
χ² / ndf 98.06 / 83
p0 −3752 ± 1214
pull
Entries 84
Mean 724.7
Std Dev 0

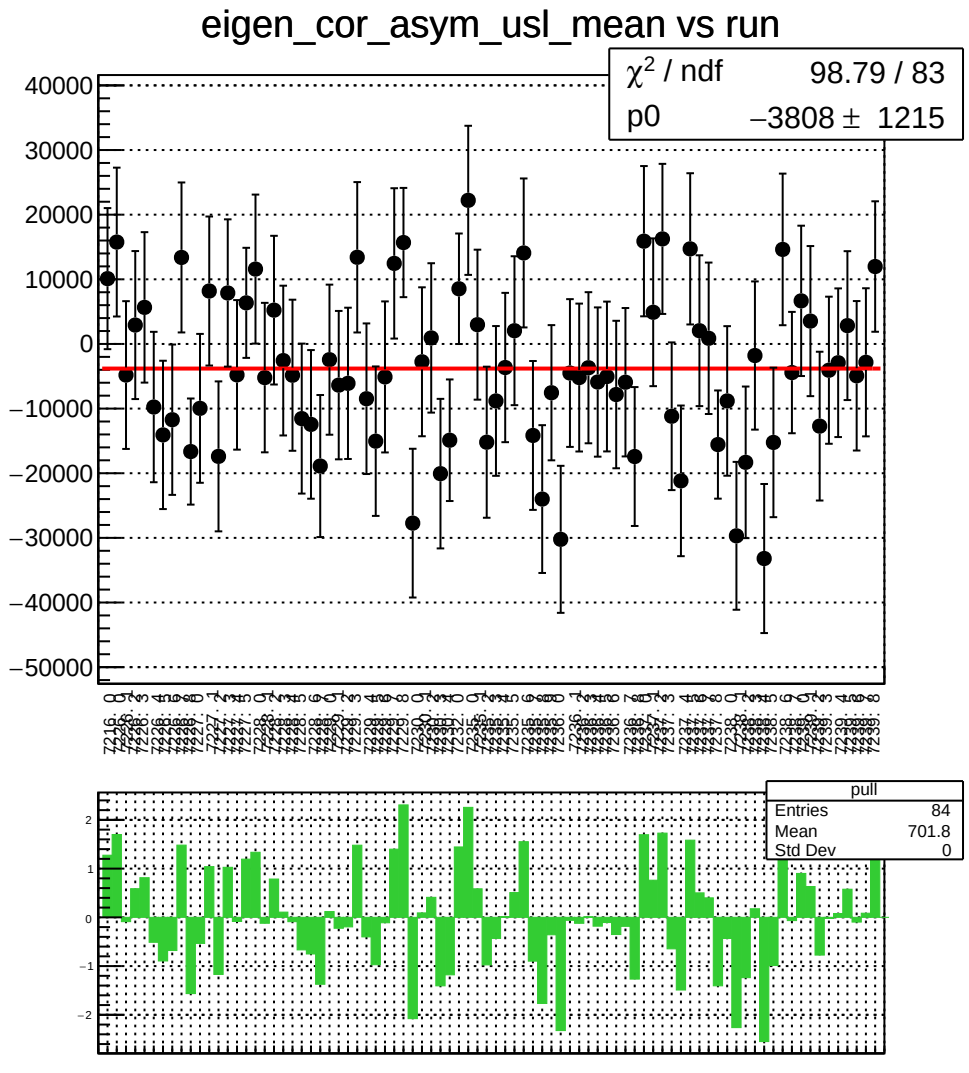

pull1D
Entries 84
Mean −0.003389
Std Dev 1.08

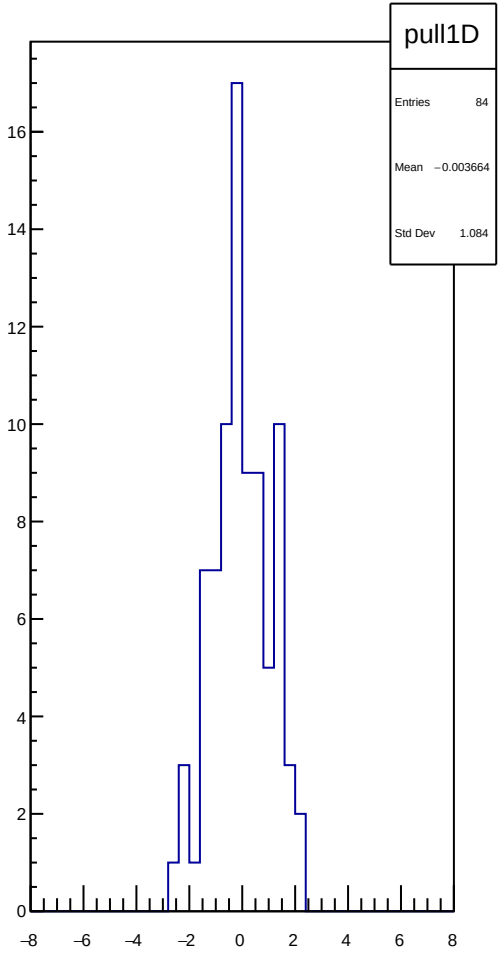

overload_cor_asym_usl_rms vs run
χ² / ndf 86.2 / 83
p0 1095 ± 0.8587
1120
1110
1100
1090
1080
1070

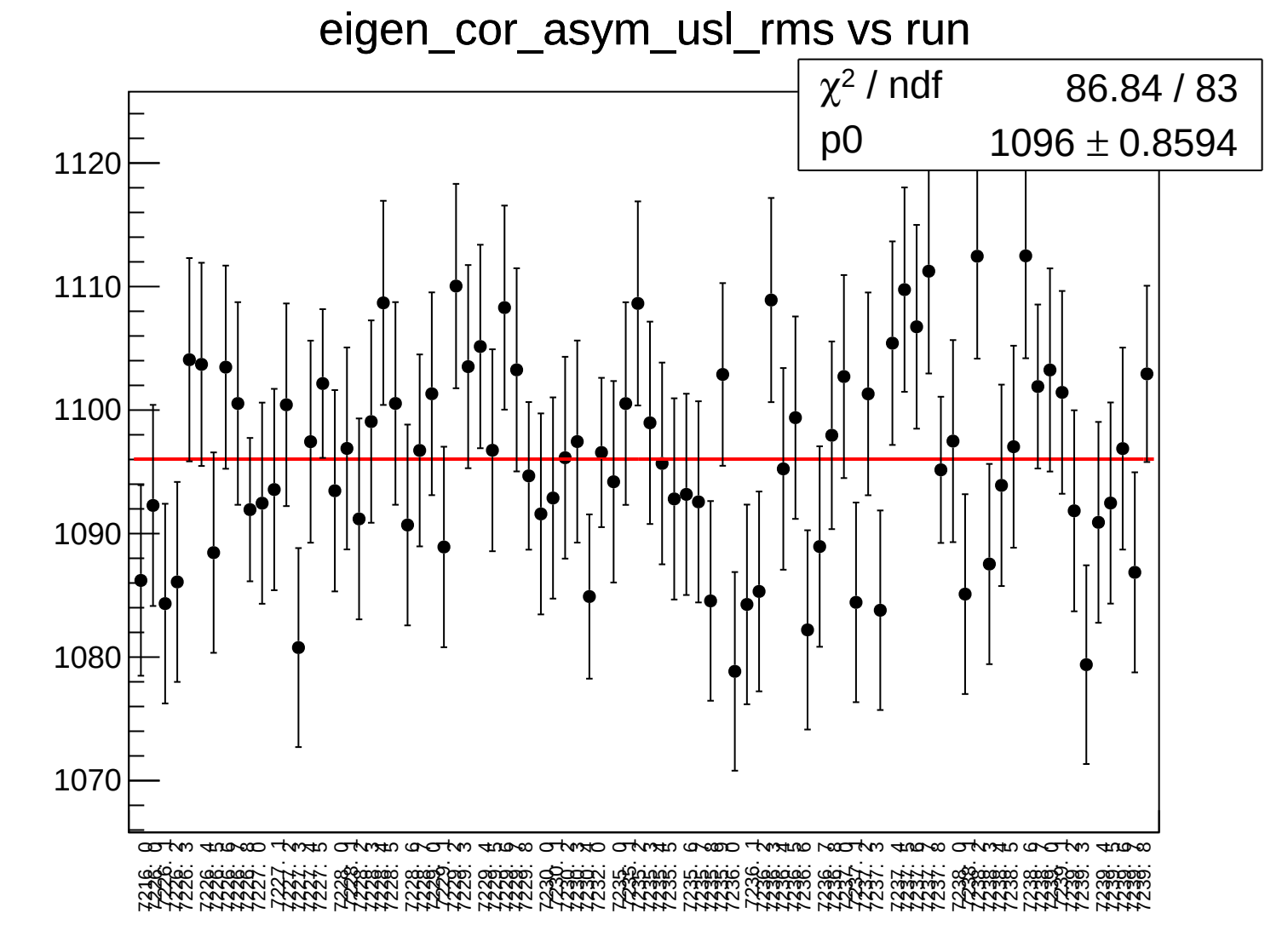

asym_usl_overload_cor_correction_mean vs run
χ² / ndf 101.3 / 83
p0 119.5 ± 1546
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −120.9
Std Dev 0
3
2
1
0
−1
−2
−3

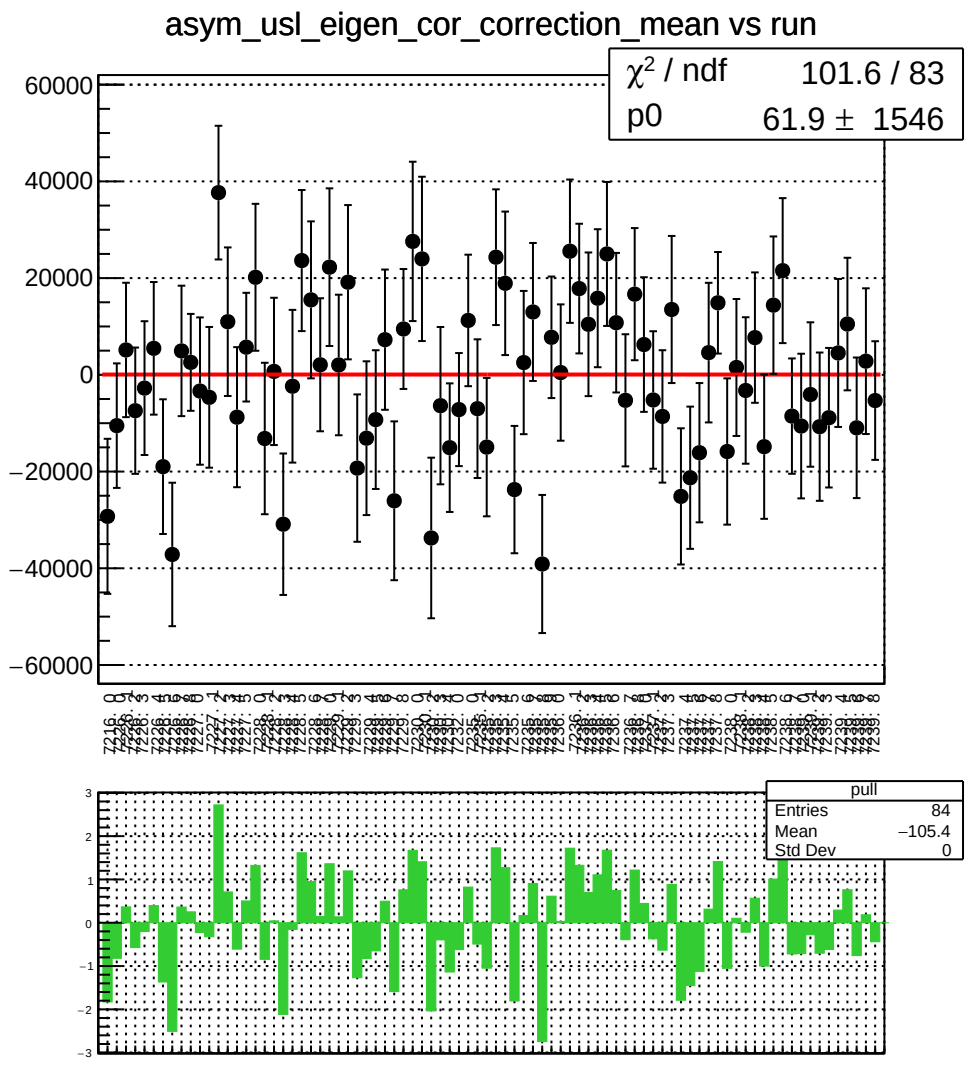

pull1D
Entries 84
Mean −0.006912
Std Dev 1.098
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

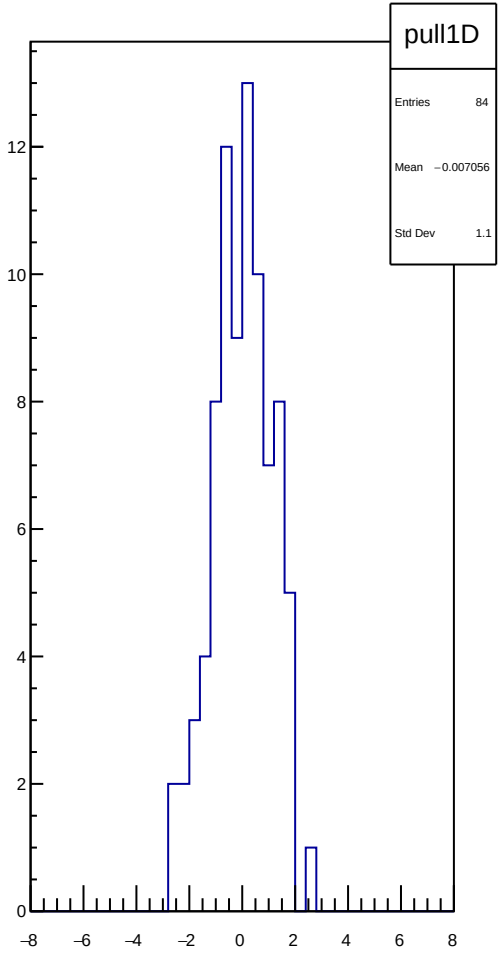

asym_usl_overload_cor_correction_rms vs run
χ^2 / ndf 6093 / 83
p0 1392 ± 1.093
1650
1600
1550
1500
1450
1400
1350
1300
1250
1200

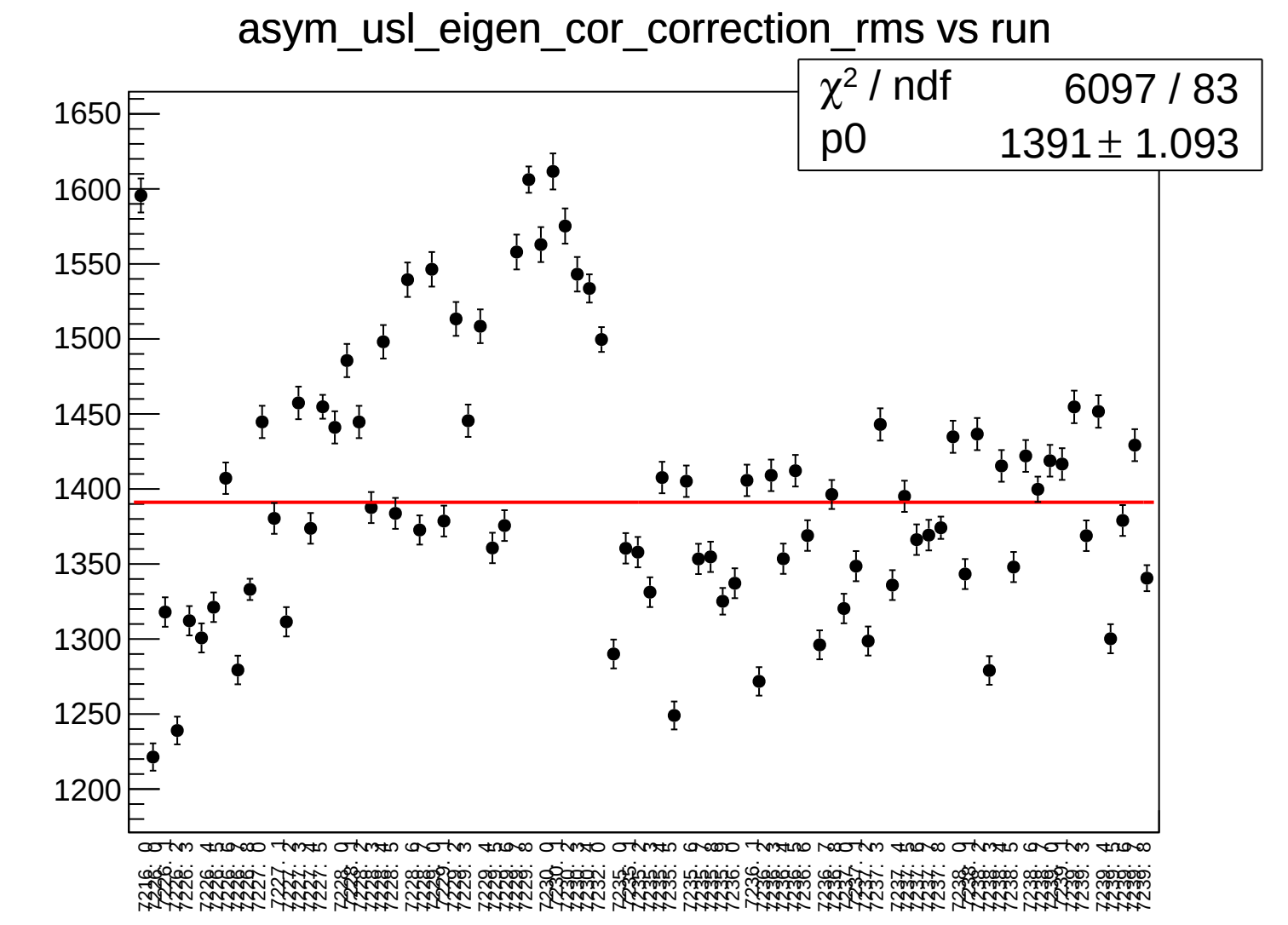

eigen_cor_asym_usl_mean vs run
χ² / ndf 98.79 / 83
p0 −3808 ± 1215
pull
Entries 84
Mean 701.8
Std Dev 0

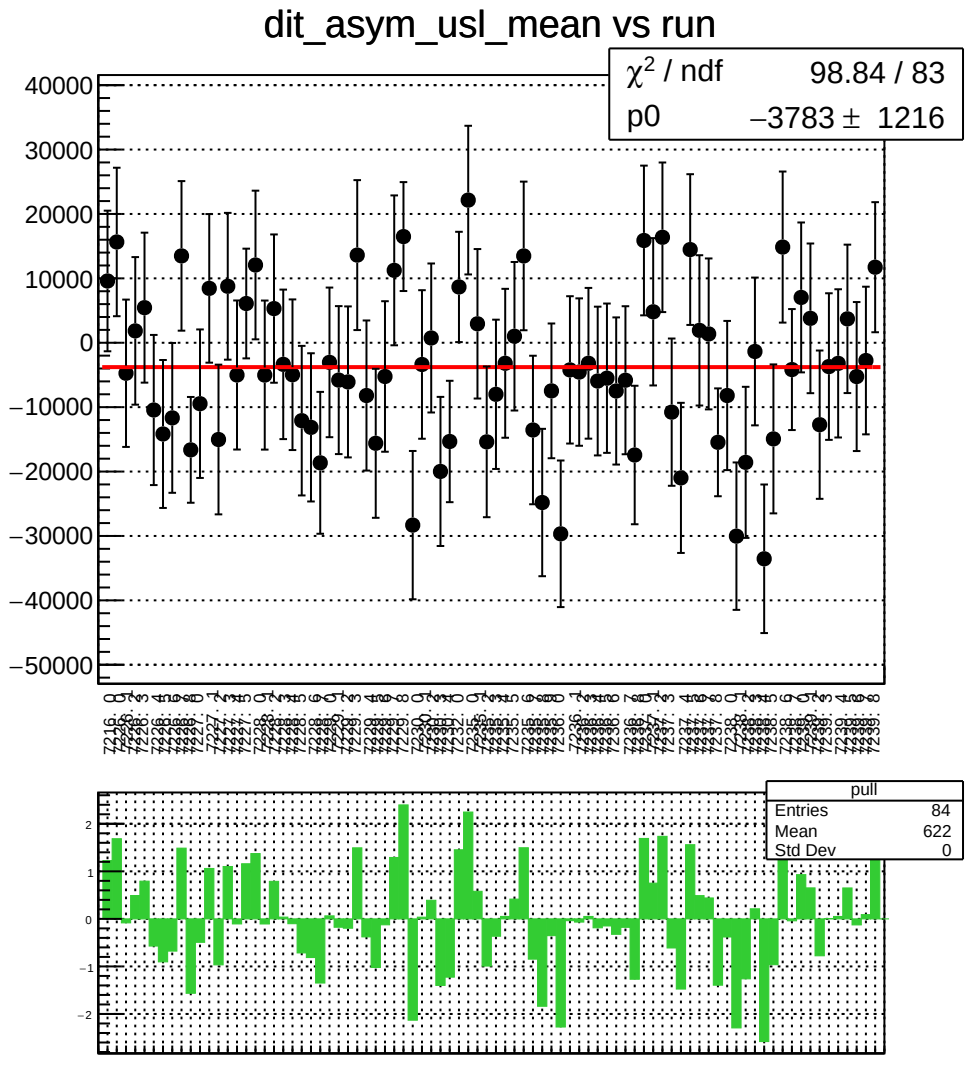

pull1D
Entries 84
Mean −0.003664
Std Dev 1.084

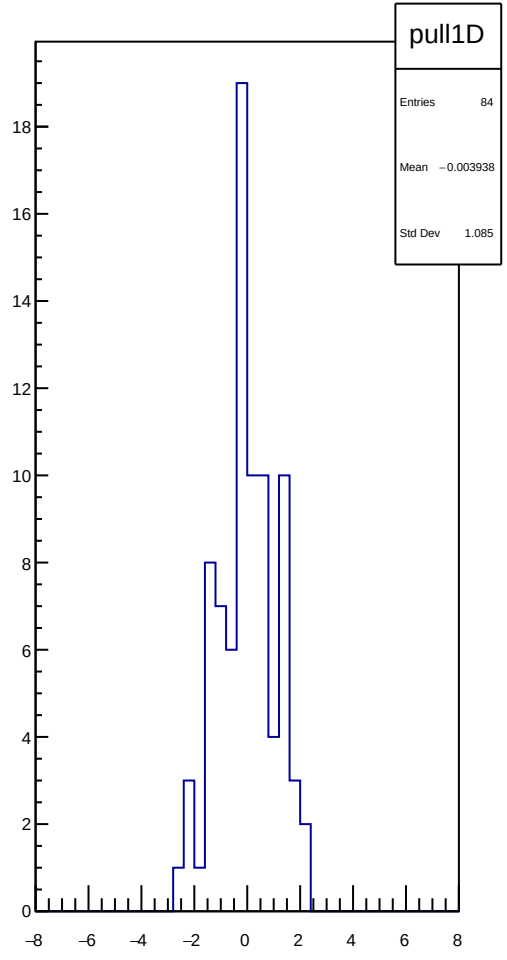

eigen_cor_asym_usl_rms vs run
χ² / ndf 86.84 / 83
p0 1096 ± 0.8594
1120
1110
1100
1090
1080
1070

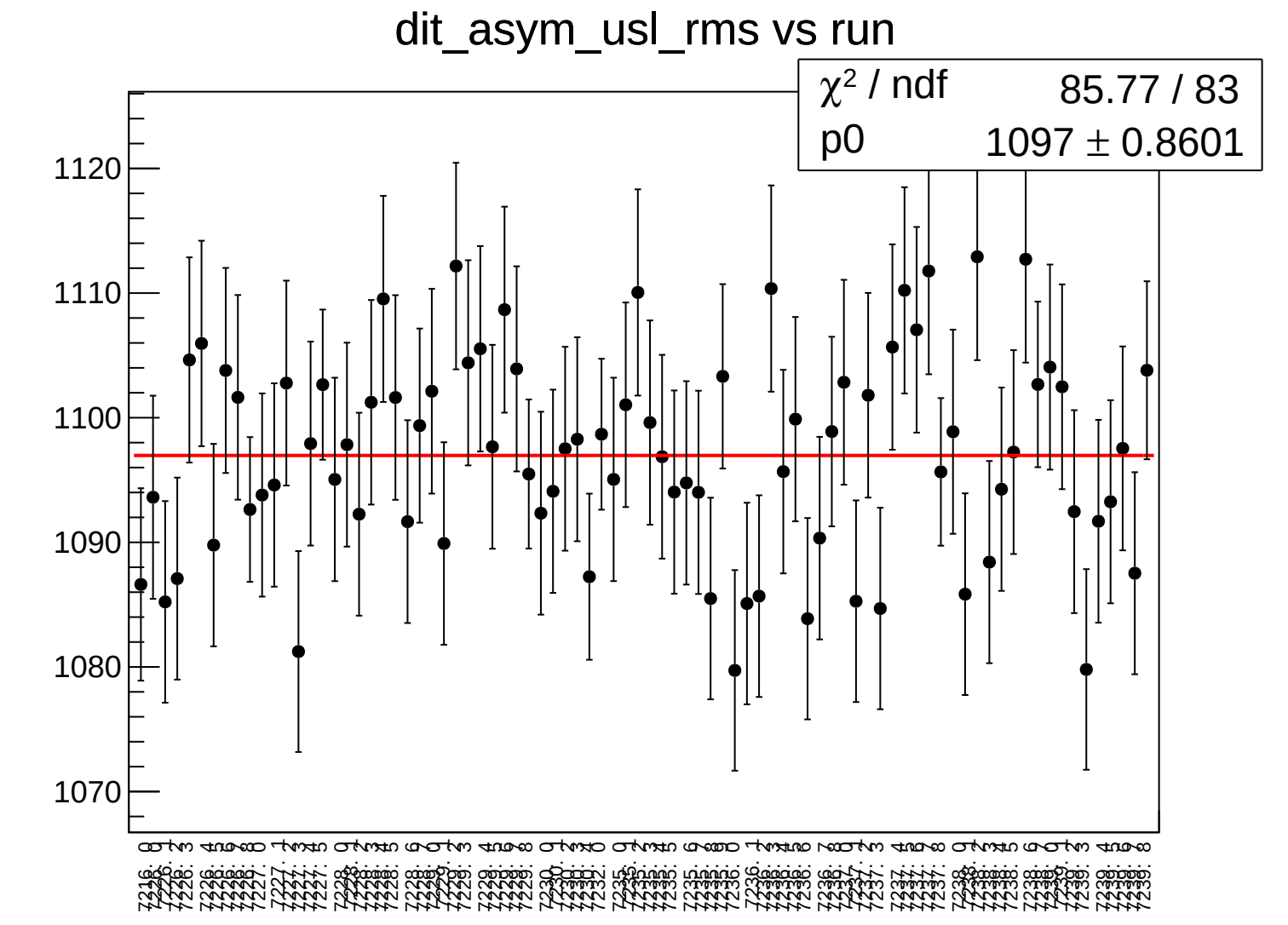

asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 101.6 / 83
p0 61.9 ± 1546
pull
Entries 84
Mean −105.4
Std Dev 0

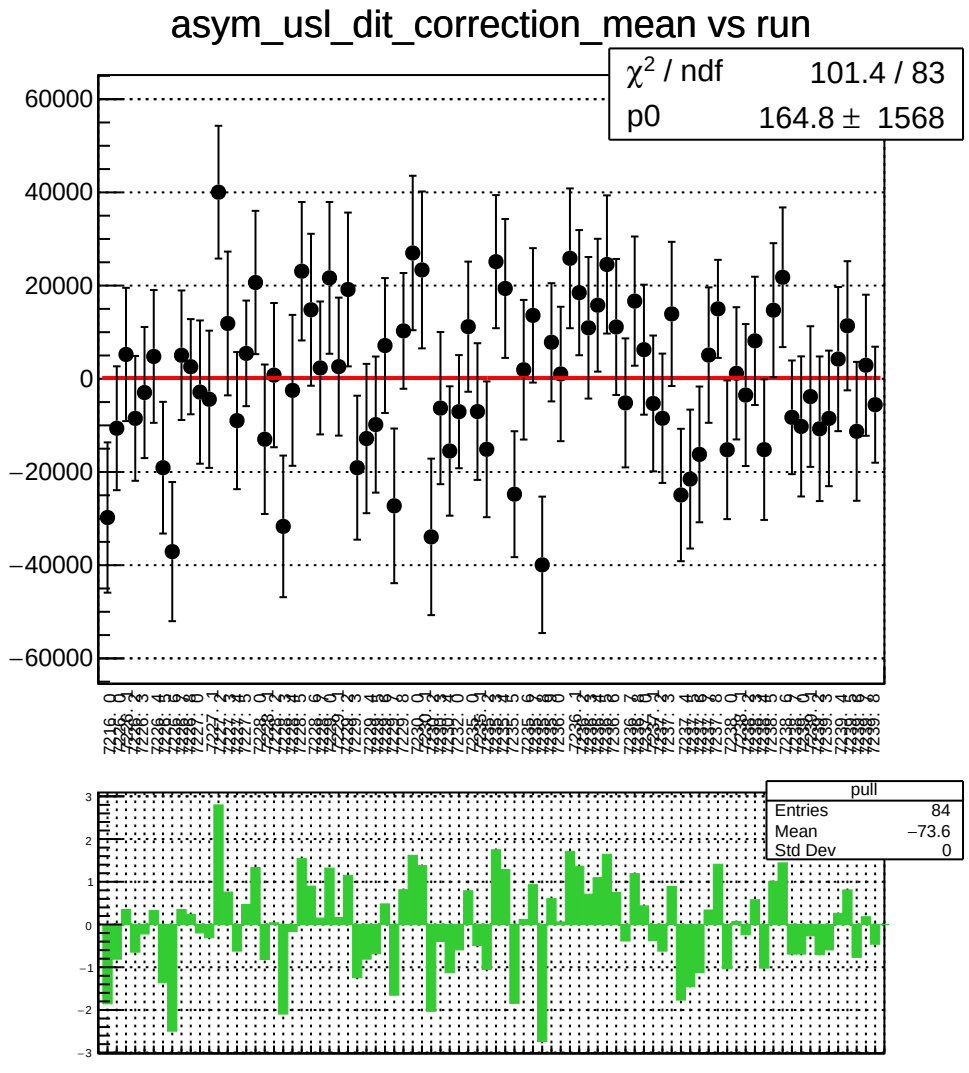

pull1D
Entries 84
Mean −0.007056
Std Dev 1.1

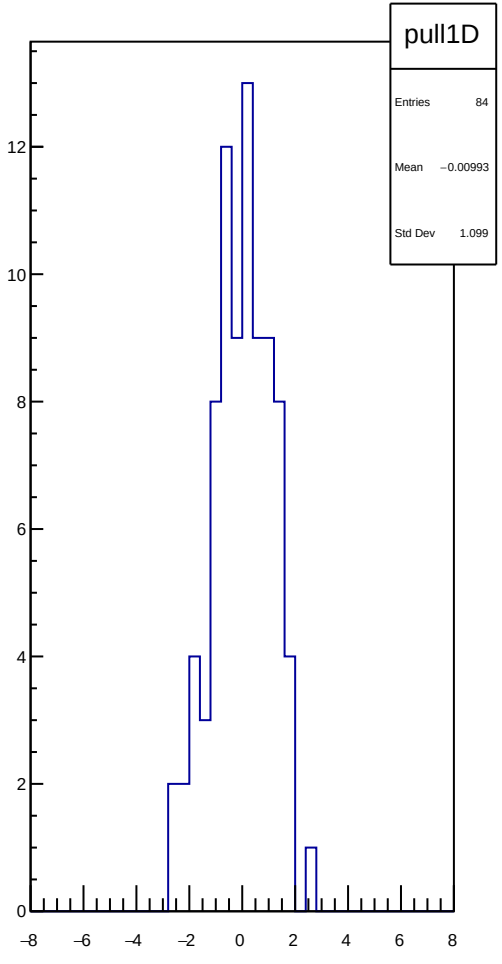

asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 6097 / 83
p0 1391 ± 1.093
1650
1600
1550
1500
1450
1400
1350
1300
1250
1200

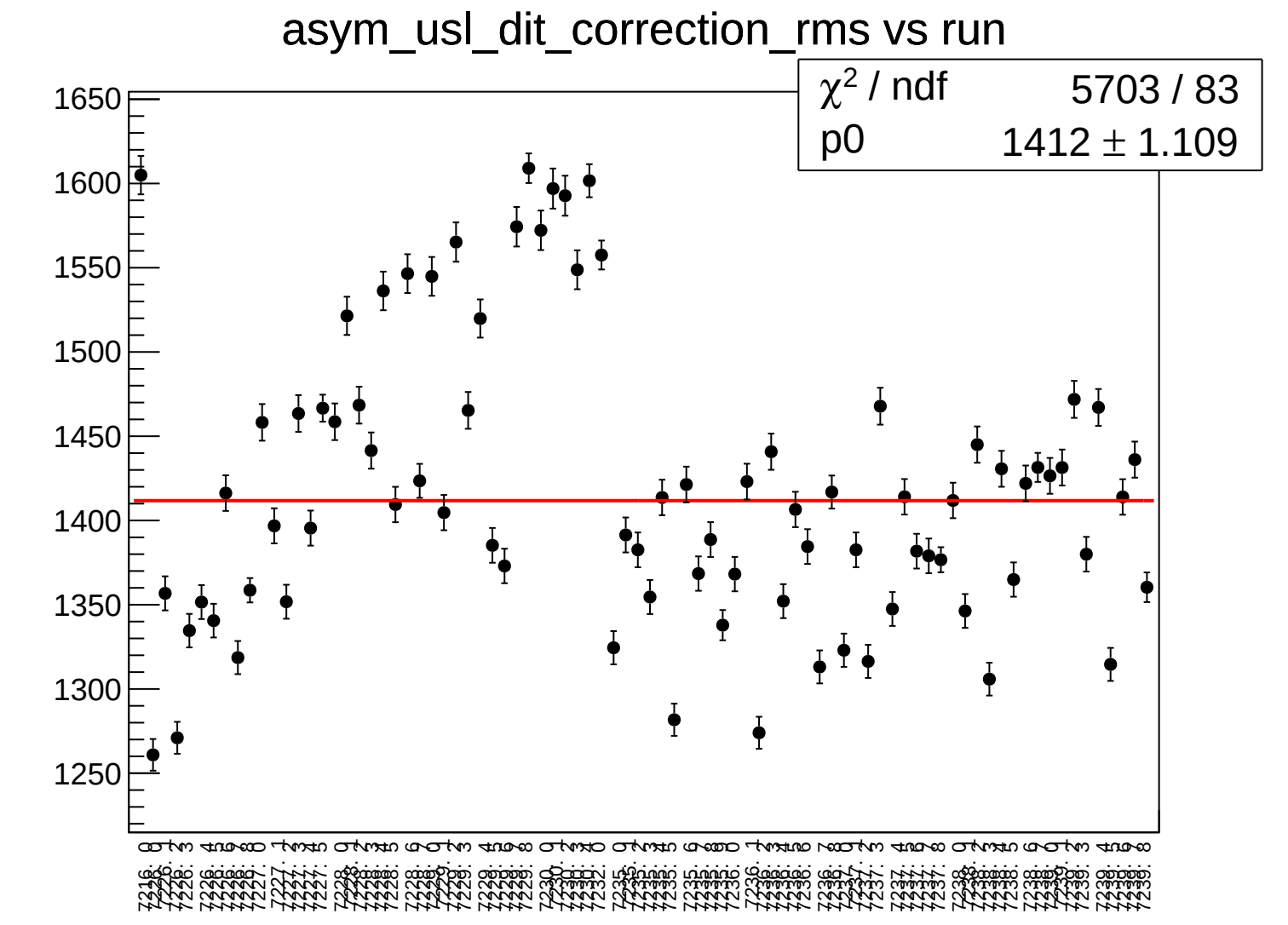

dit_asym_usl_mean vs run
χ² / ndf 98.84 / 83
p0 −3783 ± 1216
pull
Entries 84
Mean 622
Std Dev 0

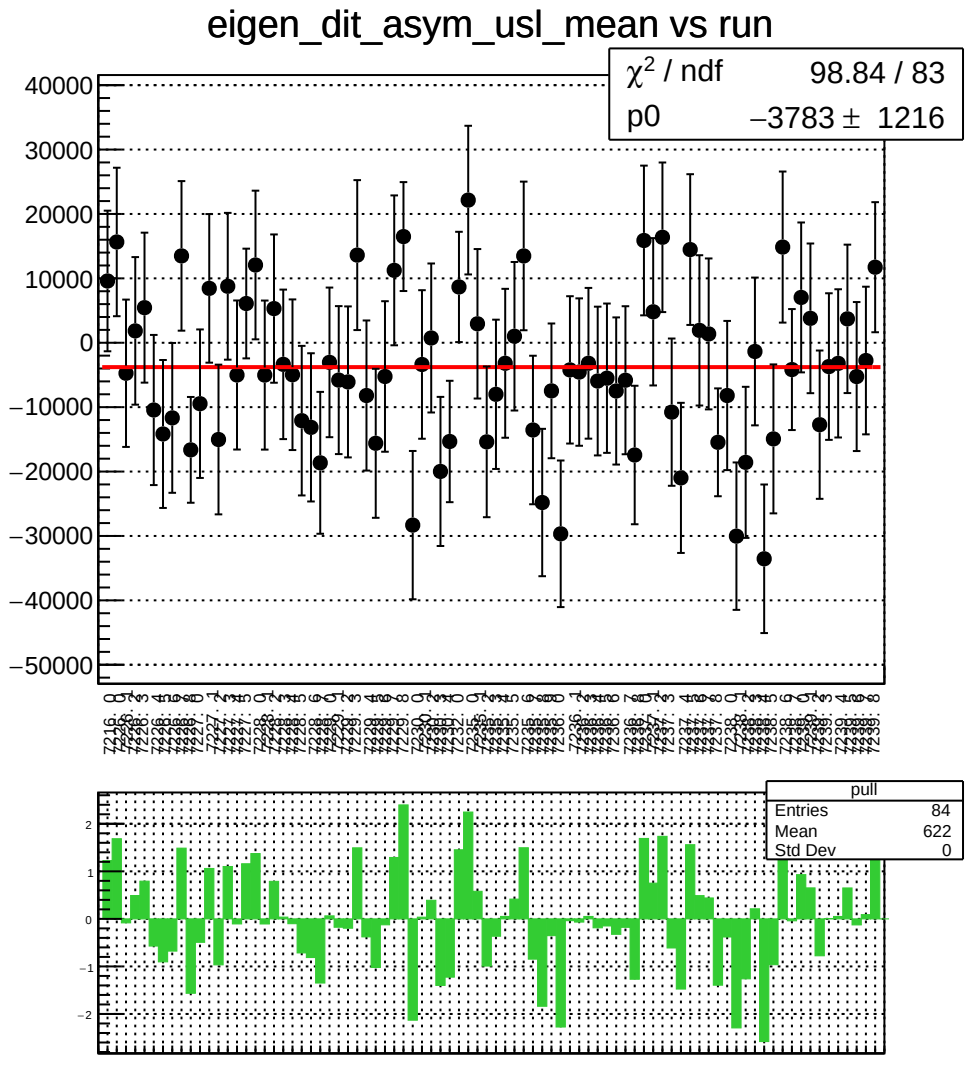

pull1D
Entries 84
Mean −0.003938
Std Dev 1.085

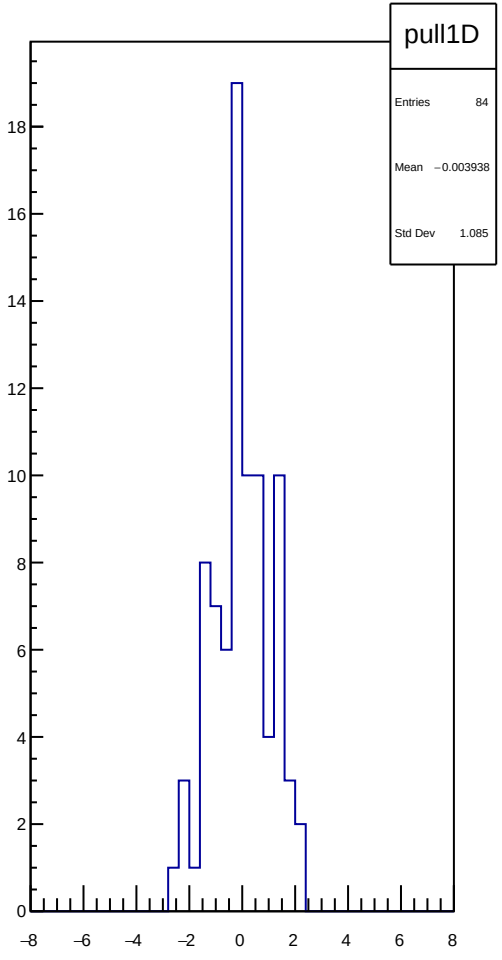

dit_asym_usl_rms vs run
χ² / ndf 85.77 / 83
p0 1097 ± 0.8601
1120
1110
1100
1090
1080
1070

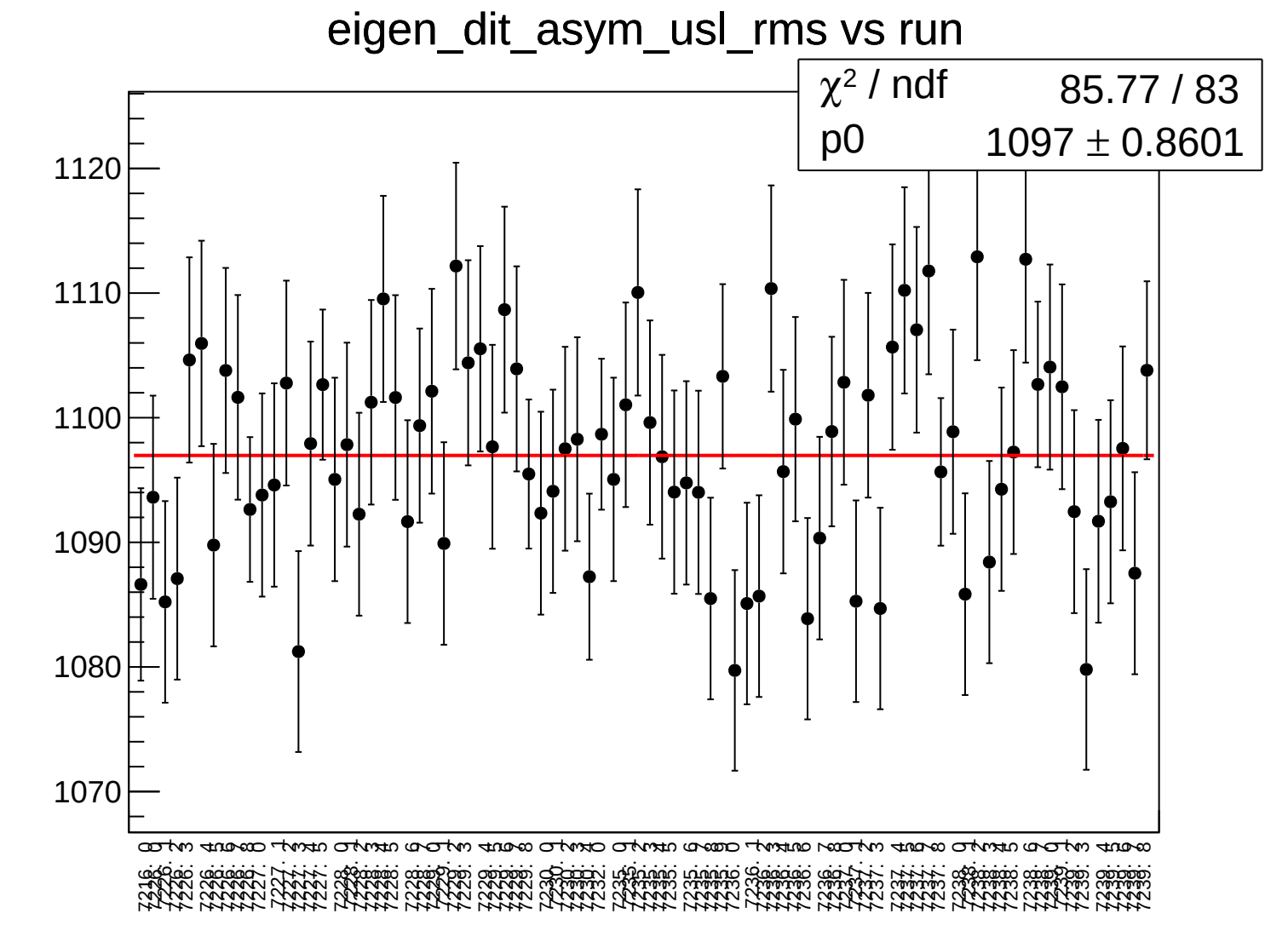

asym_usl_dit_correction_mean vs run
χ² / ndf 101.4 / 83
p0 164.8 ± 1568
pull
Entries 84
Mean −73.6
Std Dev 0

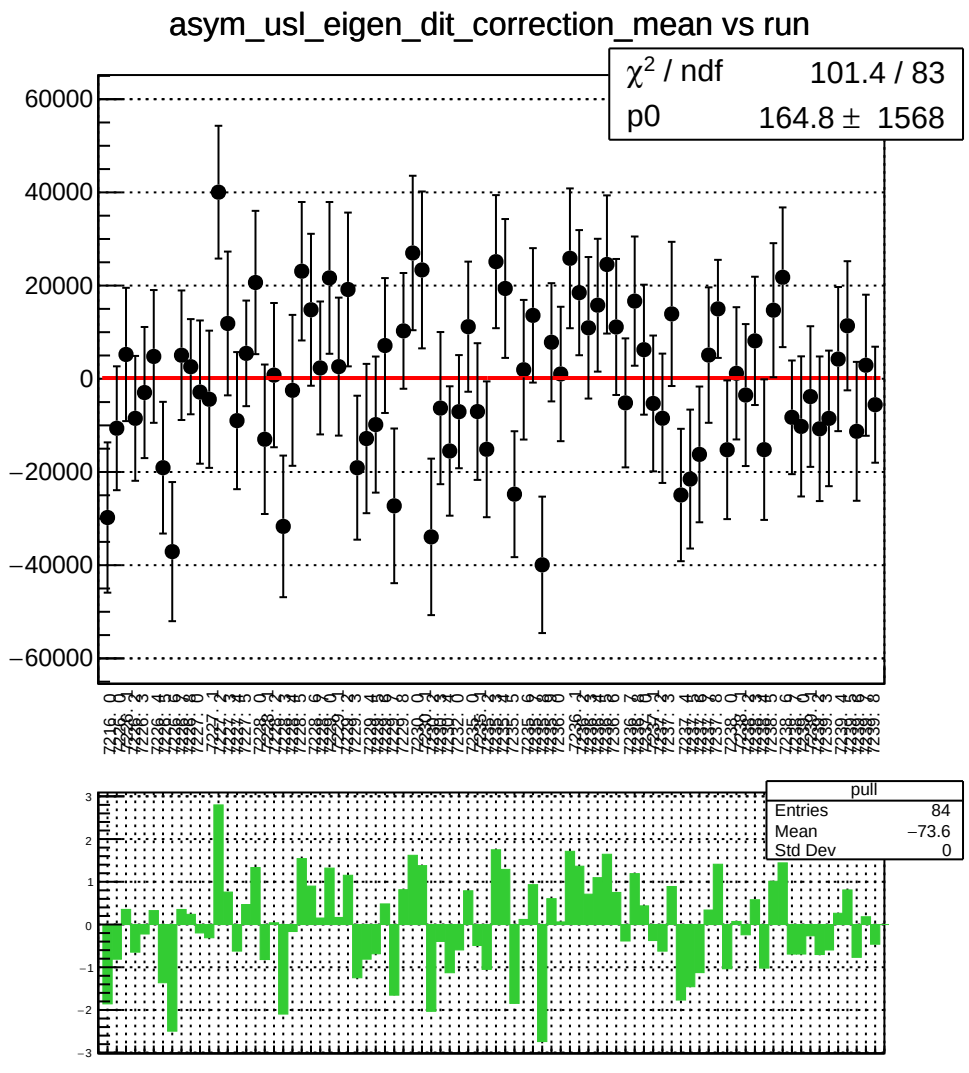

pull1D
Entries 84
Mean −0.00993
Std Dev 1.099

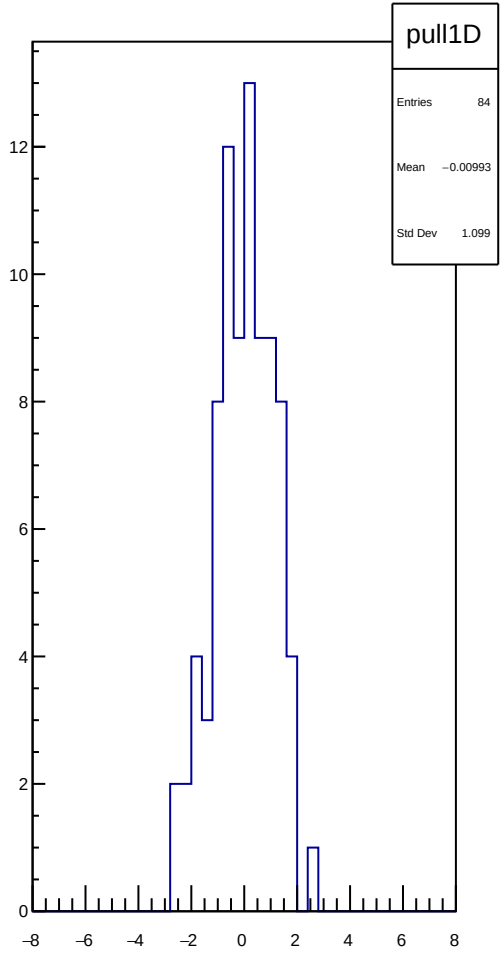

asym_usl_dit_correction_rms vs run
χ² / ndf 5703 / 83
p0 1412 ± 1.109
1650
1600
1550
1500
1450
1400
1350
1300
1250

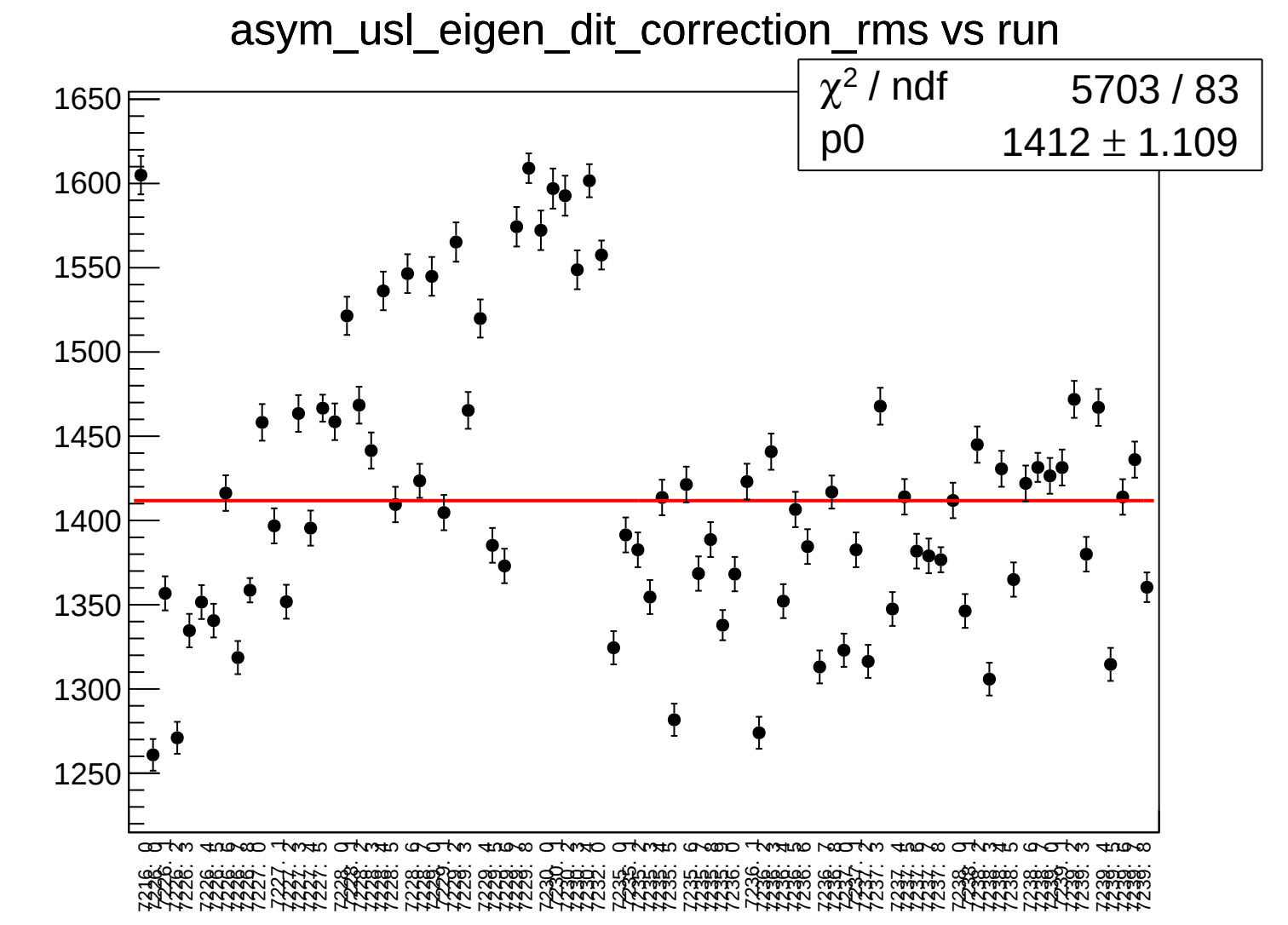

eigen_dit_asym_usl_mean vs run
χ² / ndf 98.84 / 83
p0 −3783 ± 1216
pull
Entries 84
Mean 622
Std Dev 0

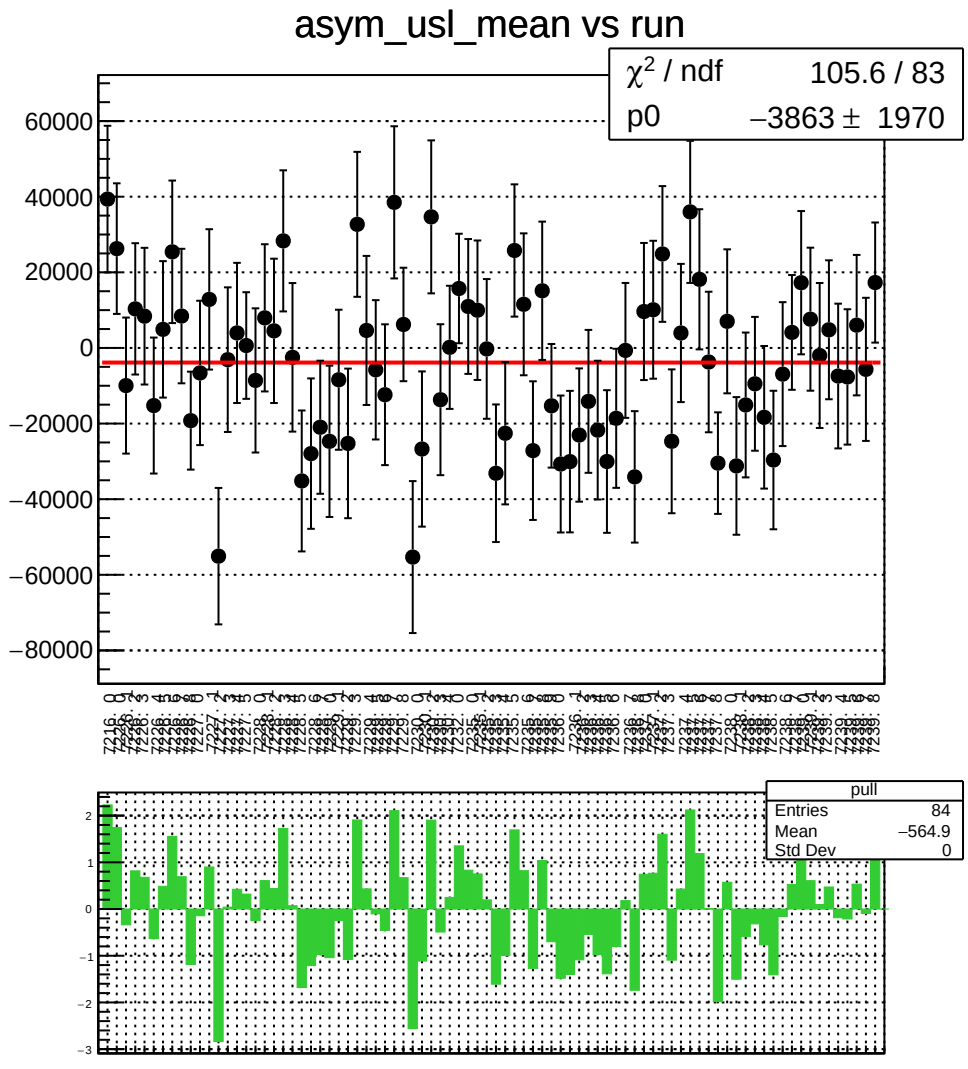

pull1D
Entries 84
Mean −0.003938
Std Dev 1.085

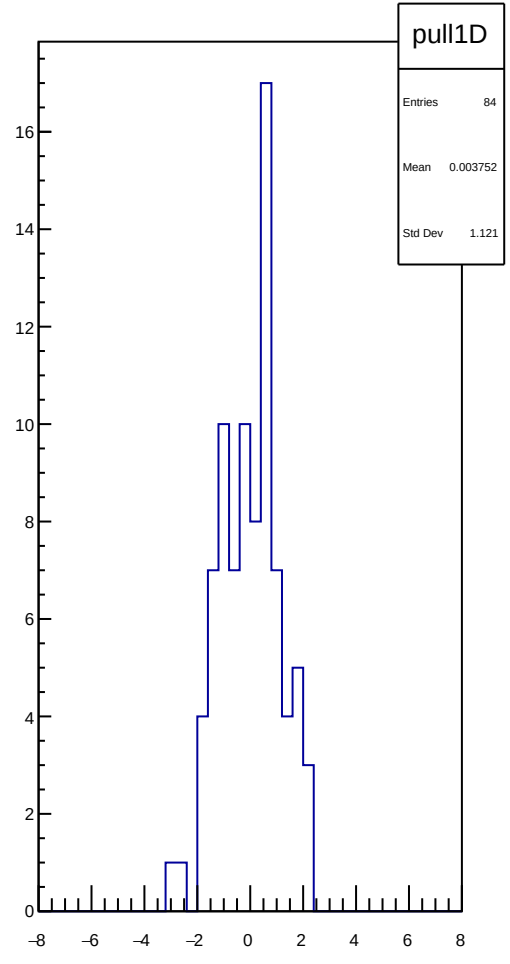

eigen_dit_asym_usl_rms vs run
χ² / ndf 85.77 / 83
p0 1097 ± 0.8601
1120
1110
1100
1090
1080
1070

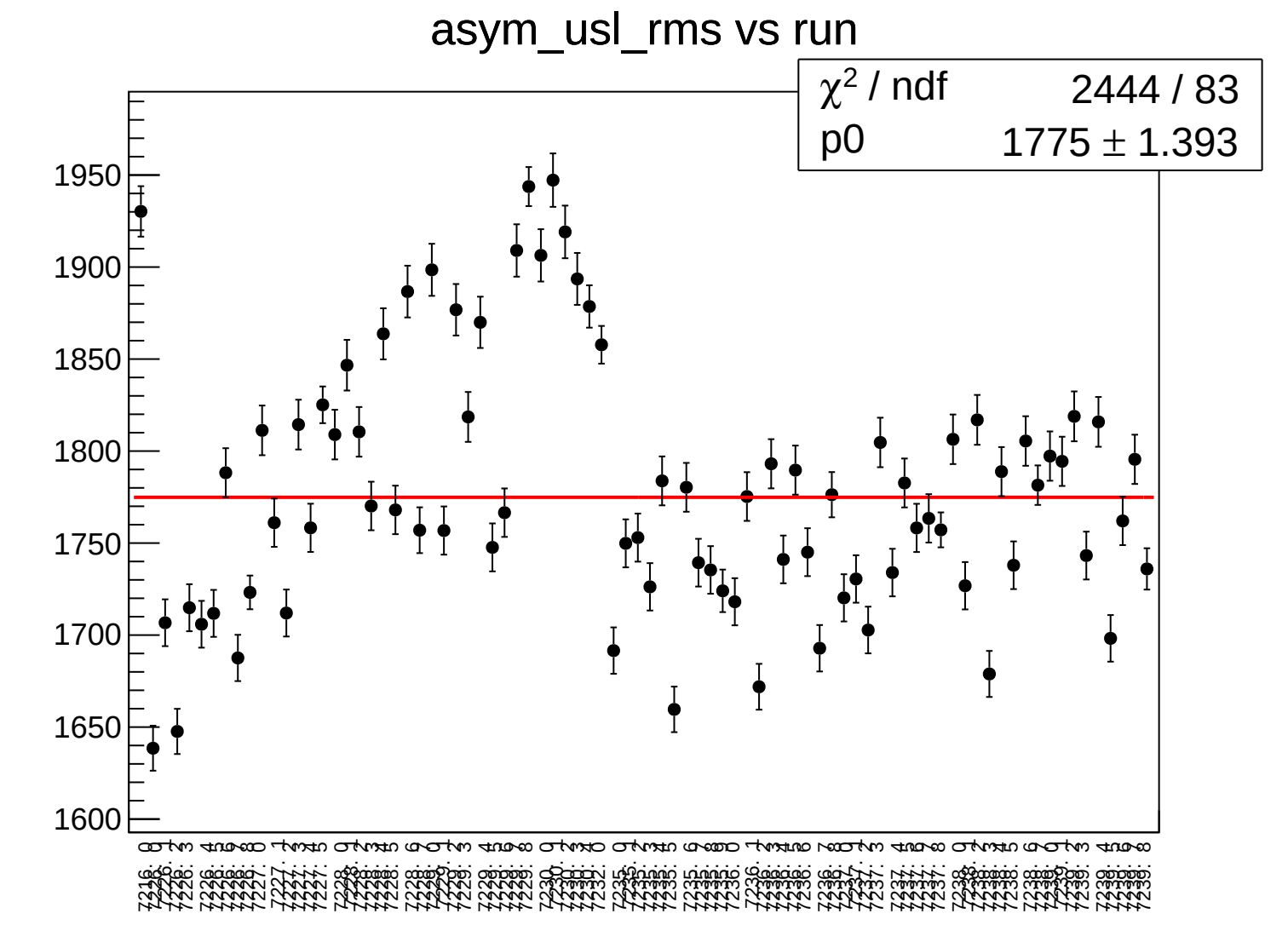

asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 101.4 / 83
p0 164.8 ± 1568
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −73.6
Std Dev 0
3
2
1
0
−1
−2
−3

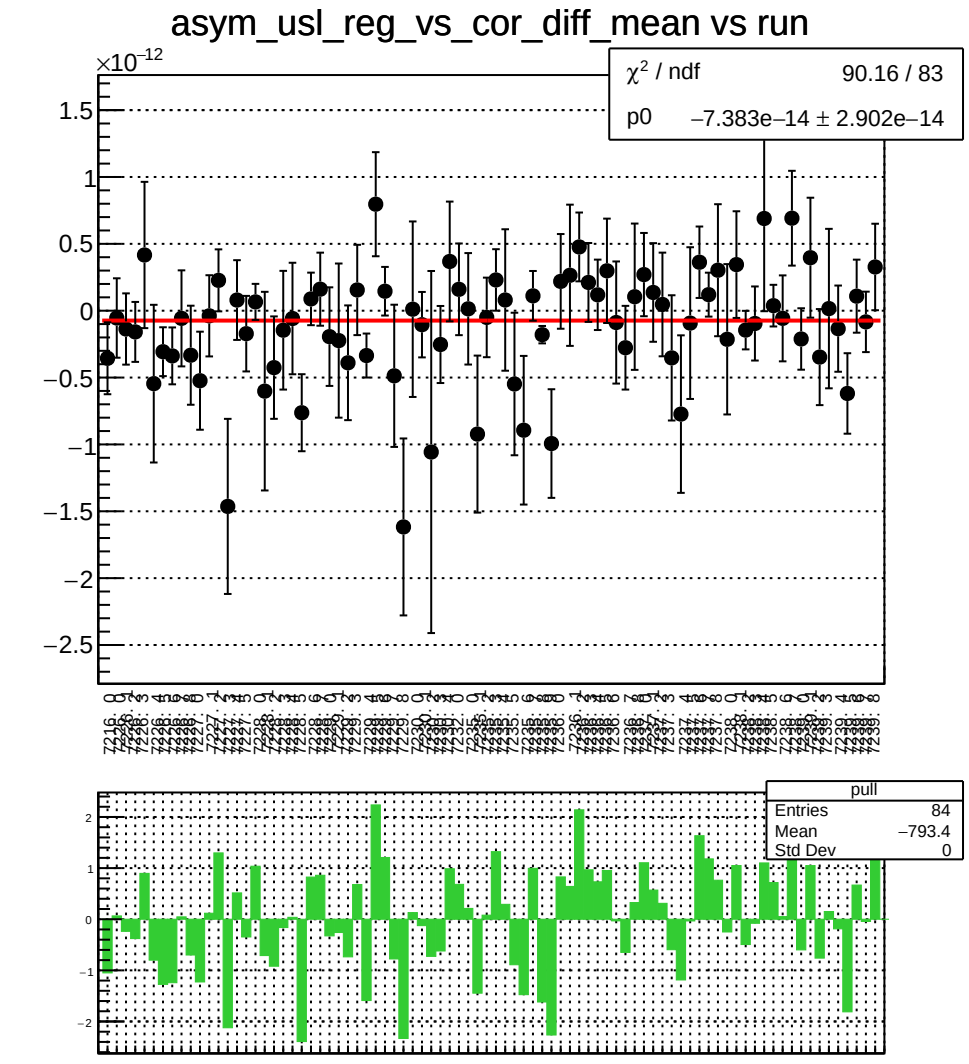

pull1D
Entries 84
Mean −0.00993
Std Dev 1.099
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

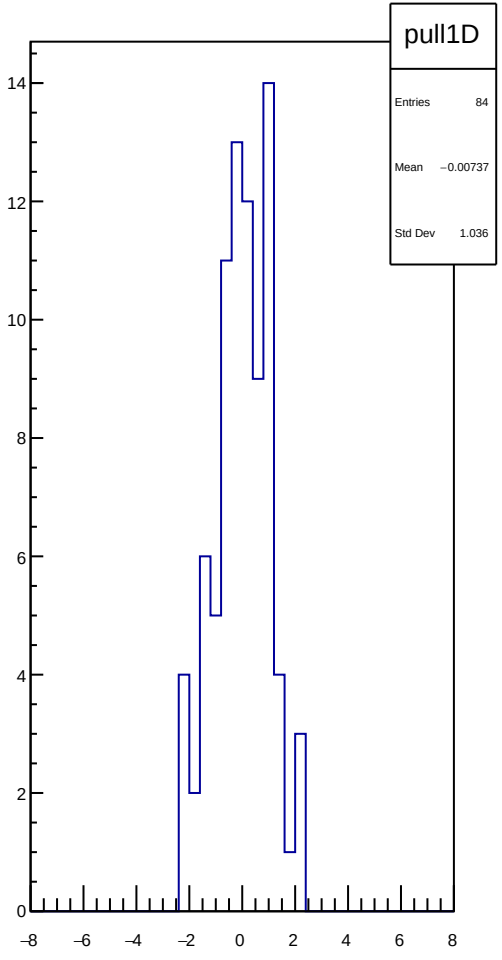

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 5703 / 83
p0 1412 ± 1.109
1650
1600
1550
1500
1450
1400
1350
1300
1250

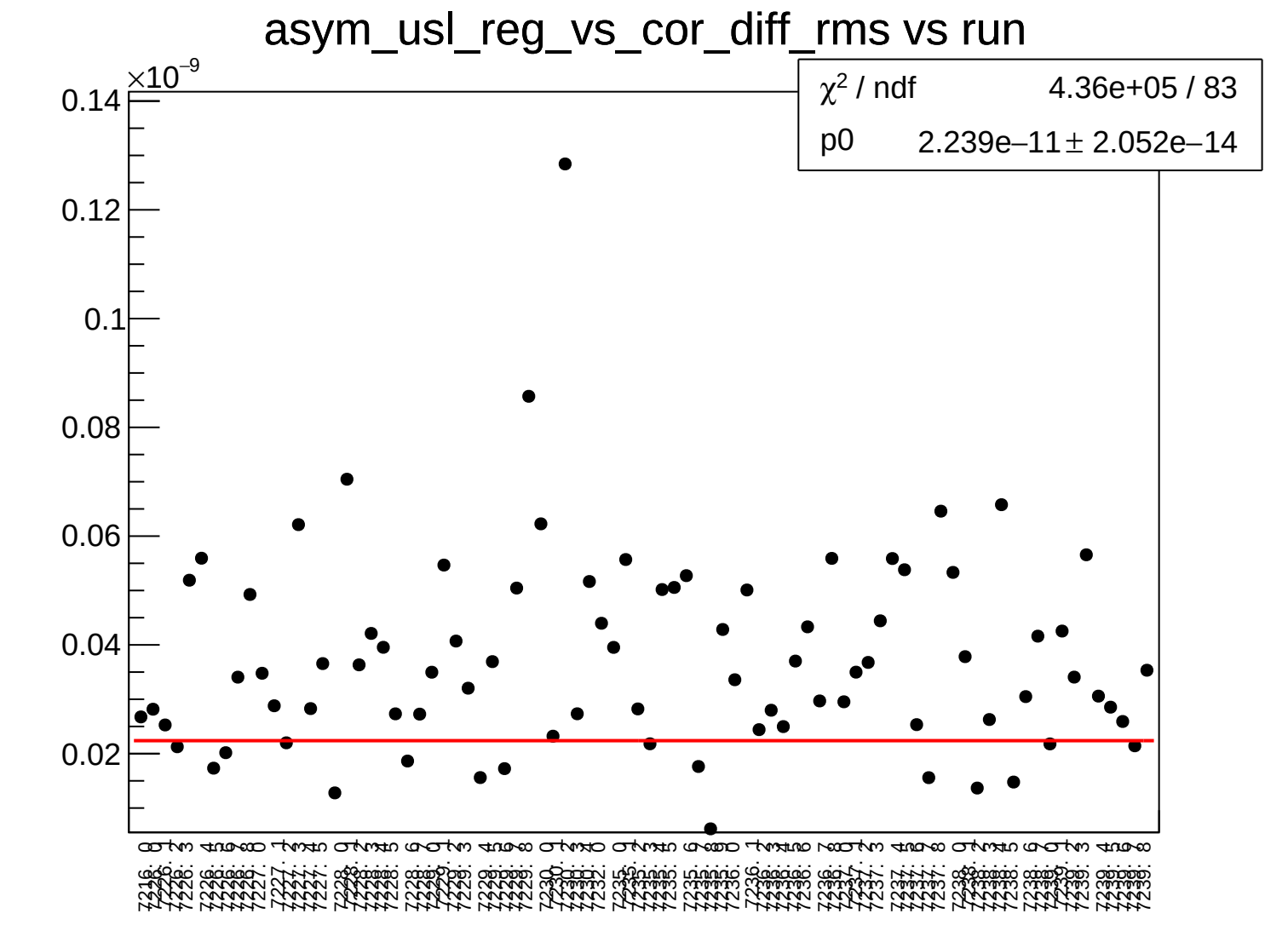

asym_usl_mean vs run
χ² / ndf 105.6 / 83
p0 −3863 ± 1970
pull
Entries 84
Mean −564.9
Std Dev 0

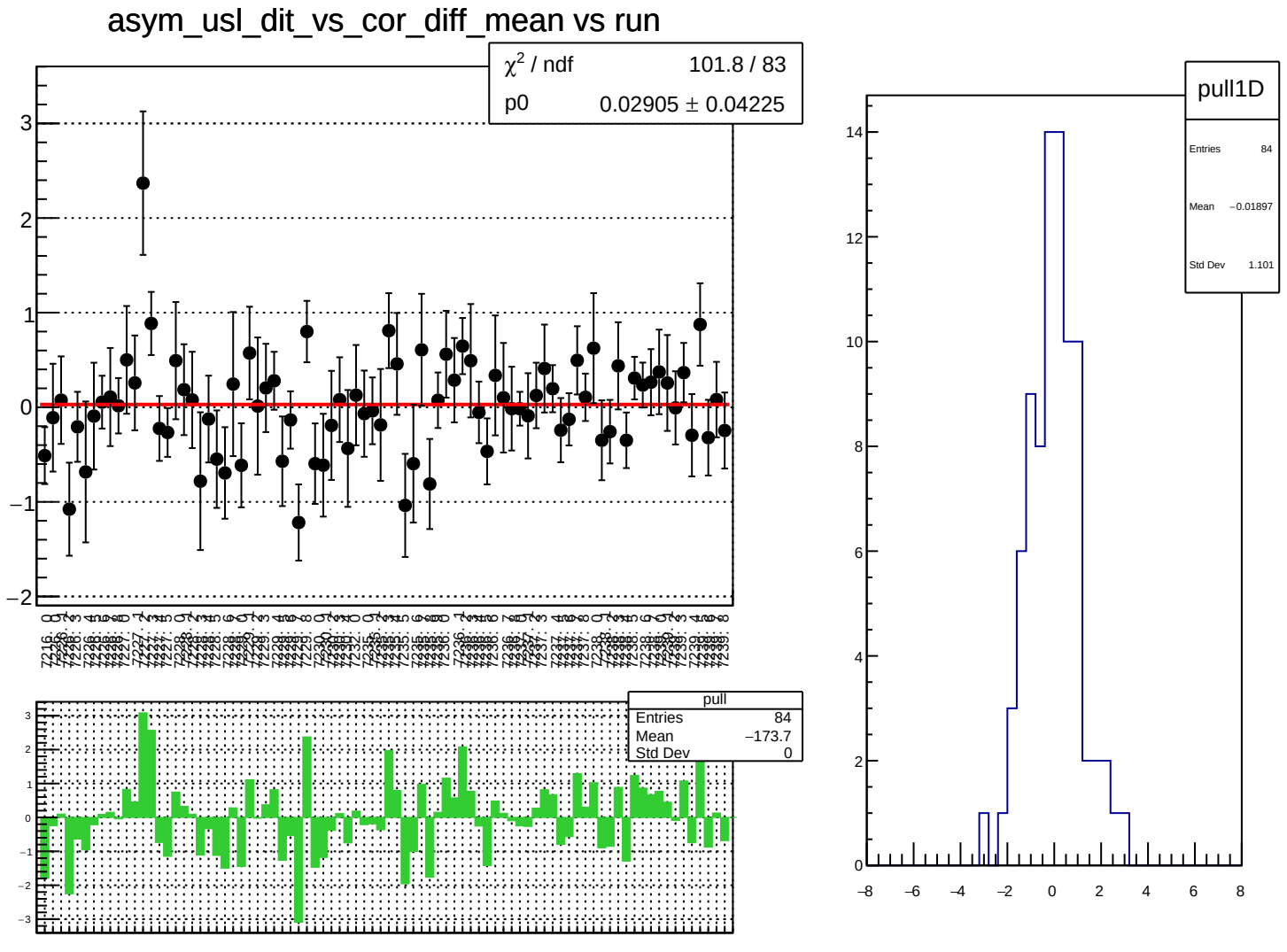

pull1D
Entries 84
Mean 0.003752
Std Dev 1.121

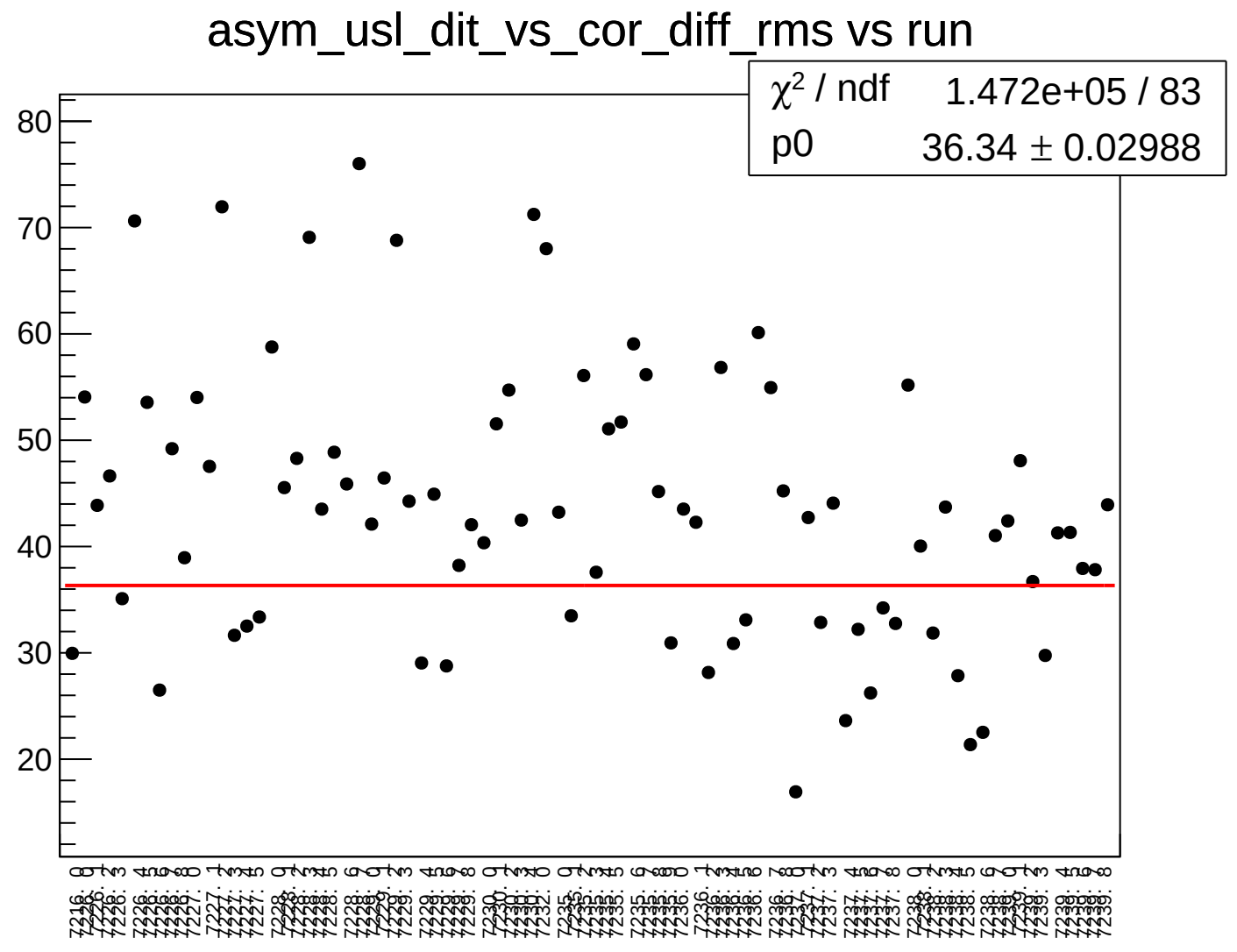

asym_usl_rms vs run
χ² / ndf 2444 / 83
p0 1775 ± 1.393
1950
1900
1850
1800
1750
1700
1650
1600

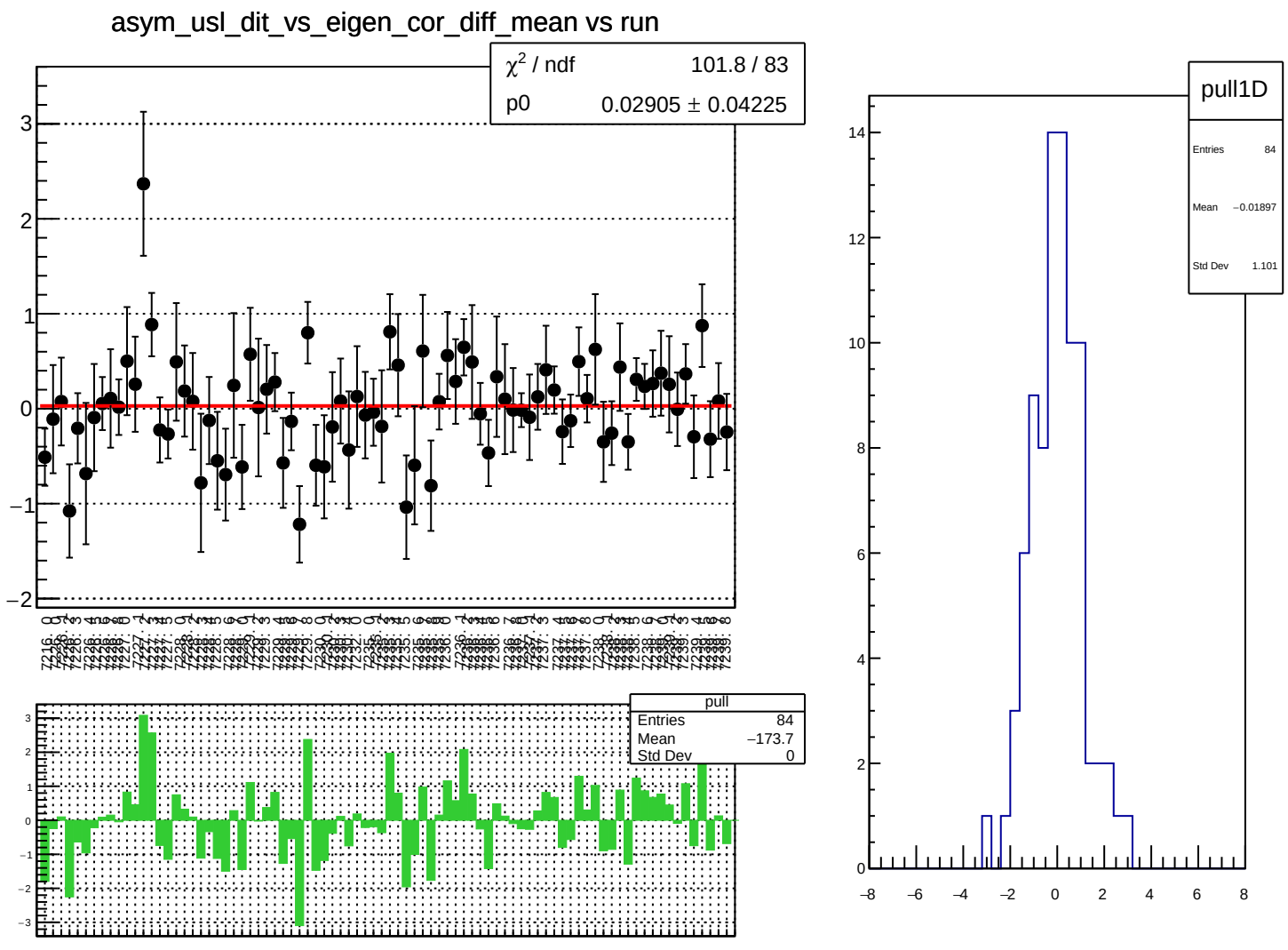

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.16 / 83
p0 −7.383e−14 ± 2.902e−14
pull
Entries 84
Mean −793.4
Std Dev 0

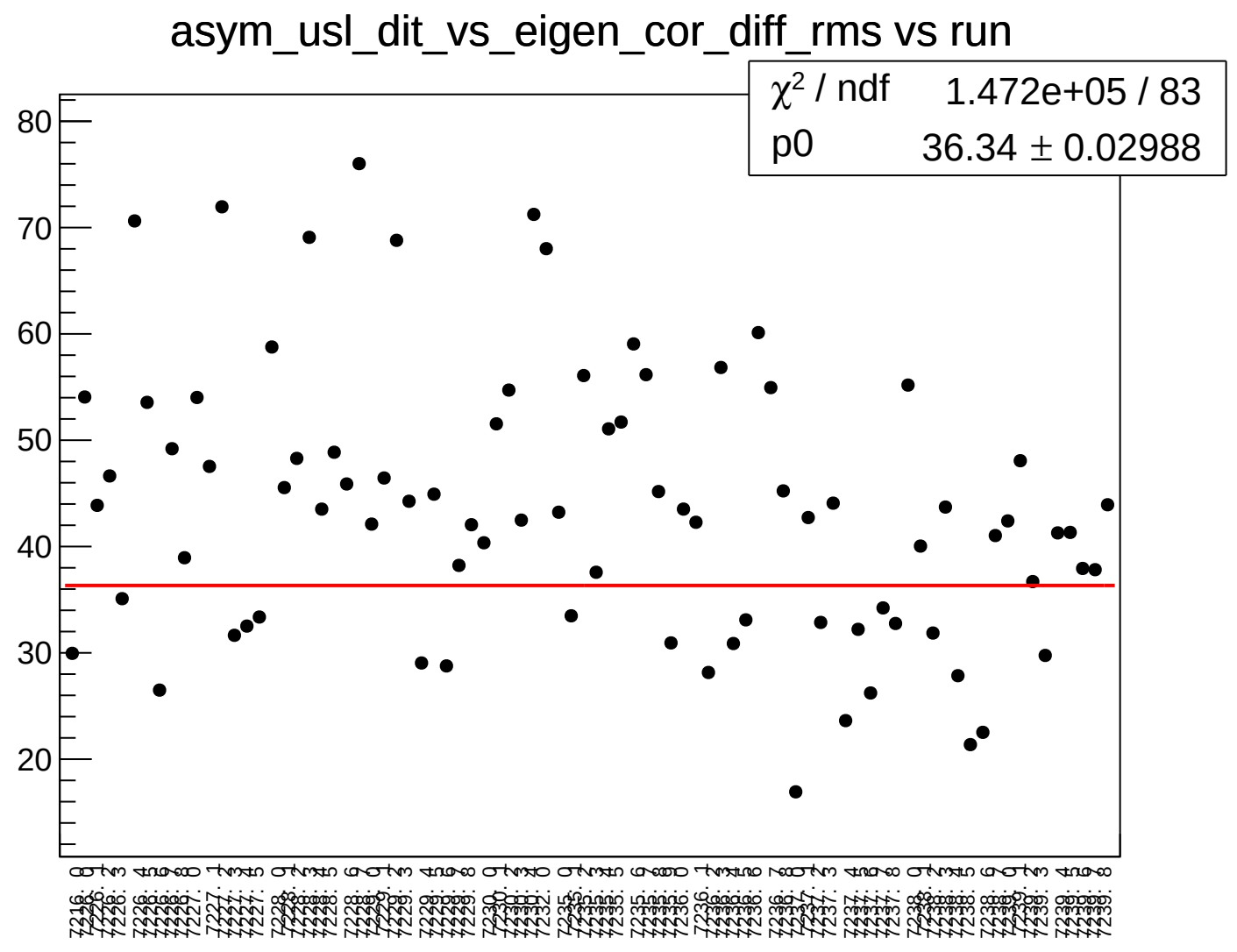

pull1D
Entries 84
Mean −0.00737
Std Dev 1.036

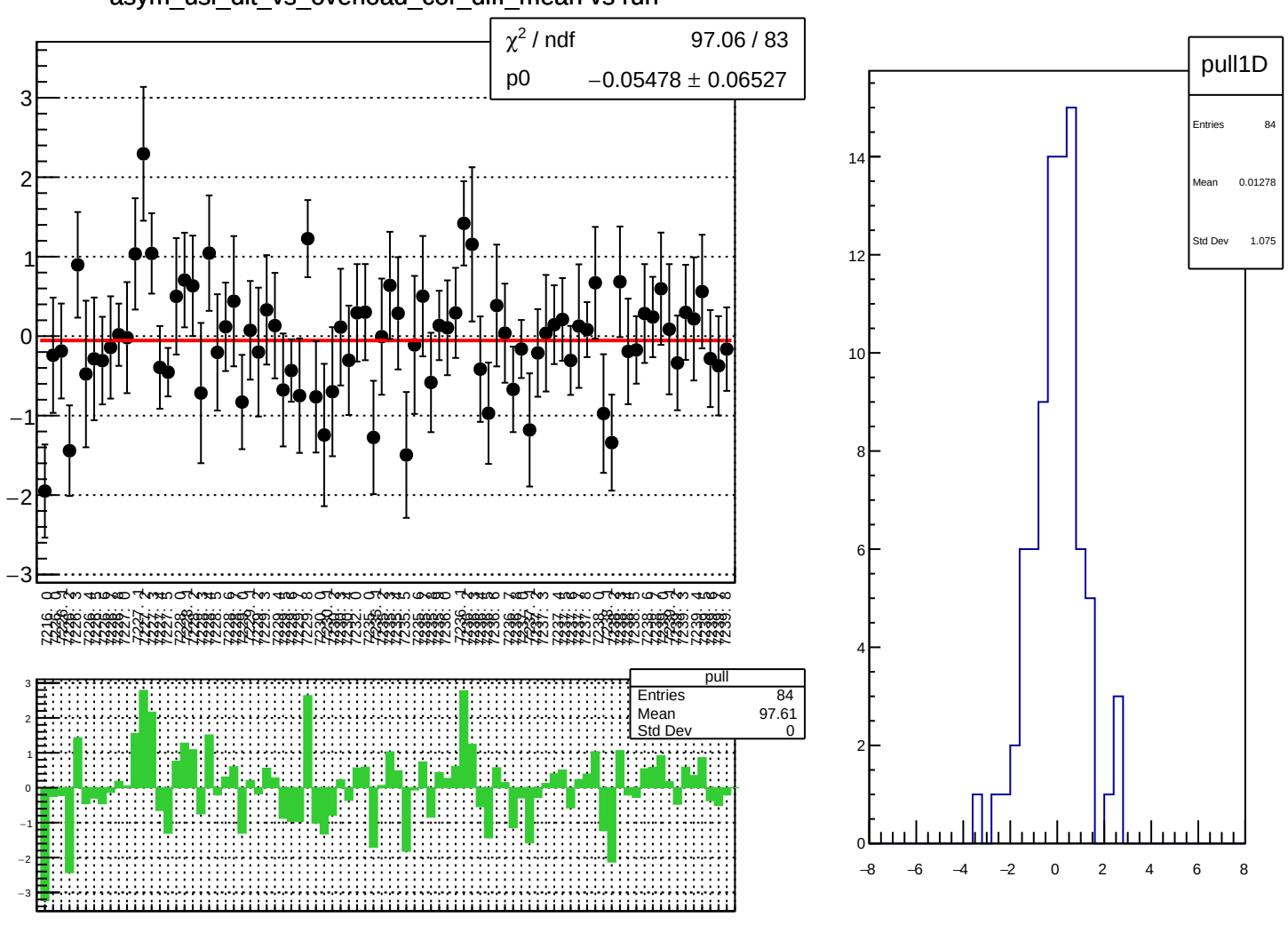

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.36e+05 / 83
p0 2.239e−11 ± 2.052e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

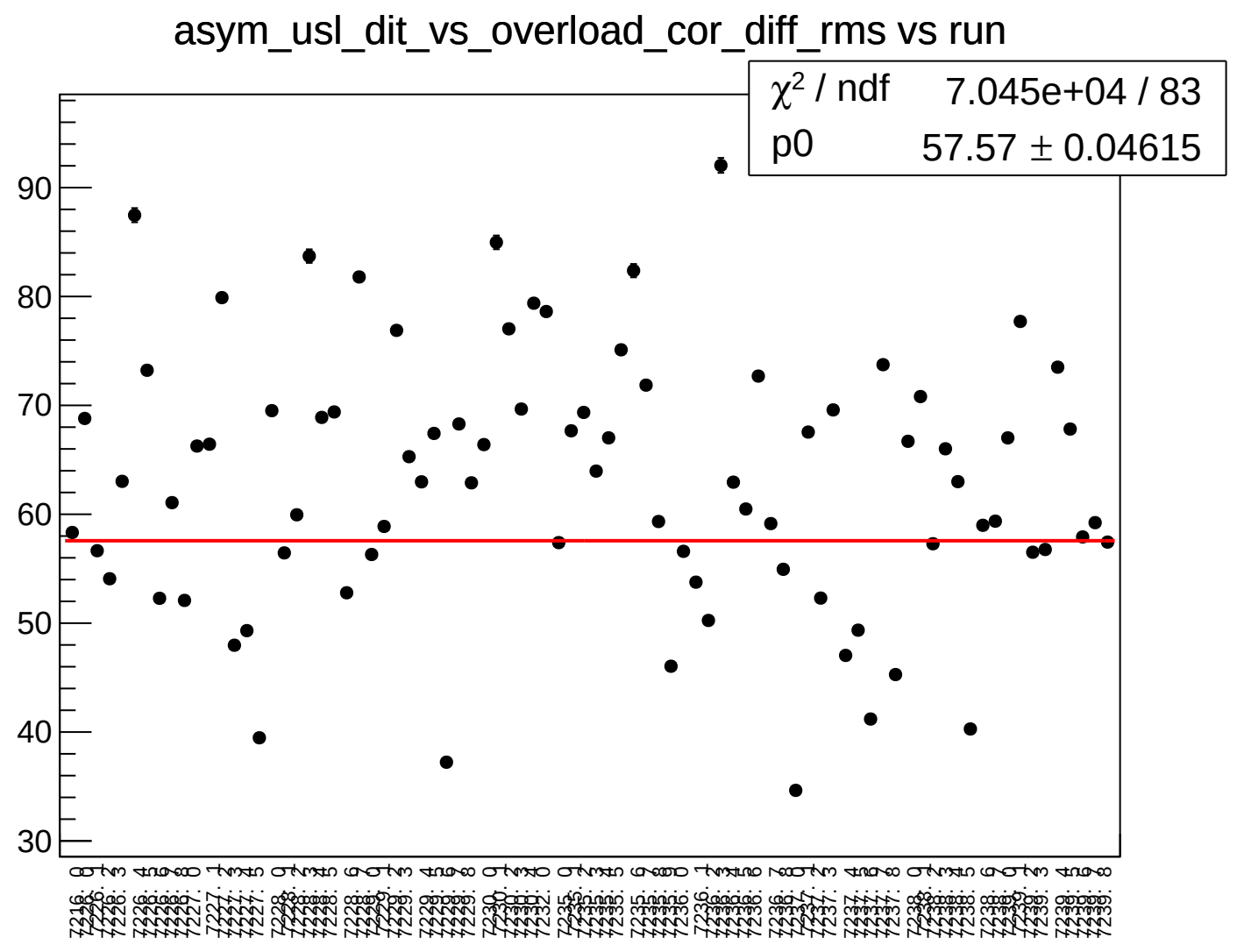

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 101.8 / 83
p0 0.02905 ± 0.04225
pull
Entries 84
Mean −173.7
Std Dev 0
pull1D
Entries 84
Mean −0.01897
Std Dev 1.101

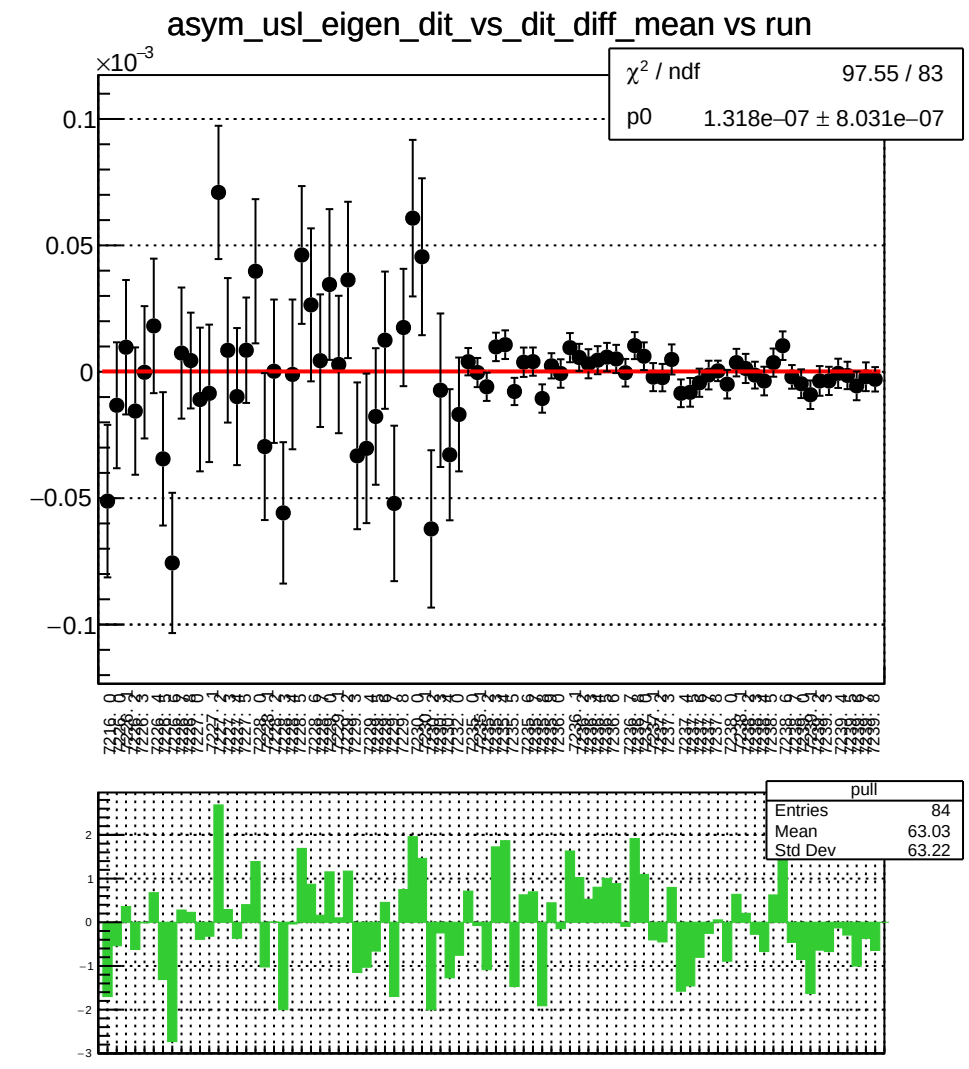

asym_usl_dit_vs_cor_diff_rms vs run
χ² / ndf 1.472e+05 / 83
p0 36.34 ± 0.02988
80
70
60
50
40
30
20

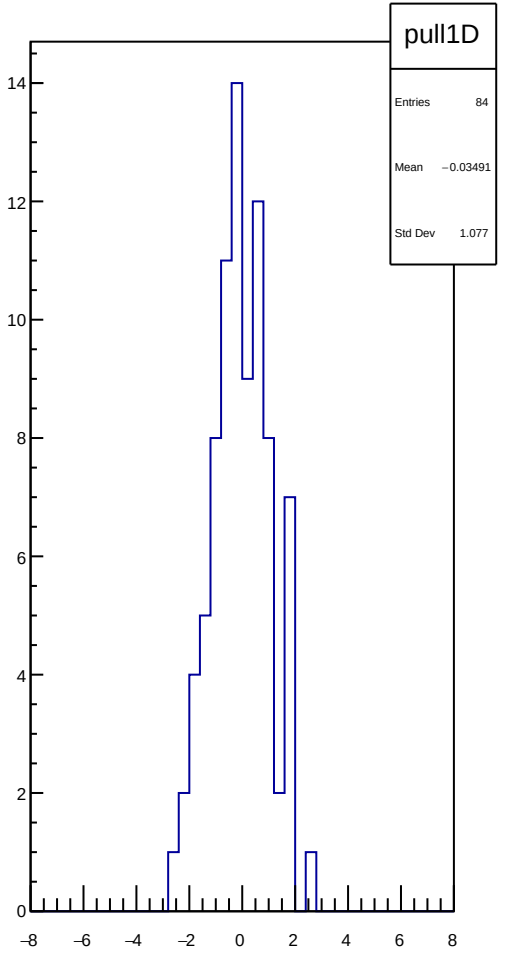

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.8 / 83
p0 0.02905 ± 0.04225
pull
Entries 84
Mean −173.7
Std Dev 0
pull1D
Entries 84
Mean −0.01897
Std Dev 1.101

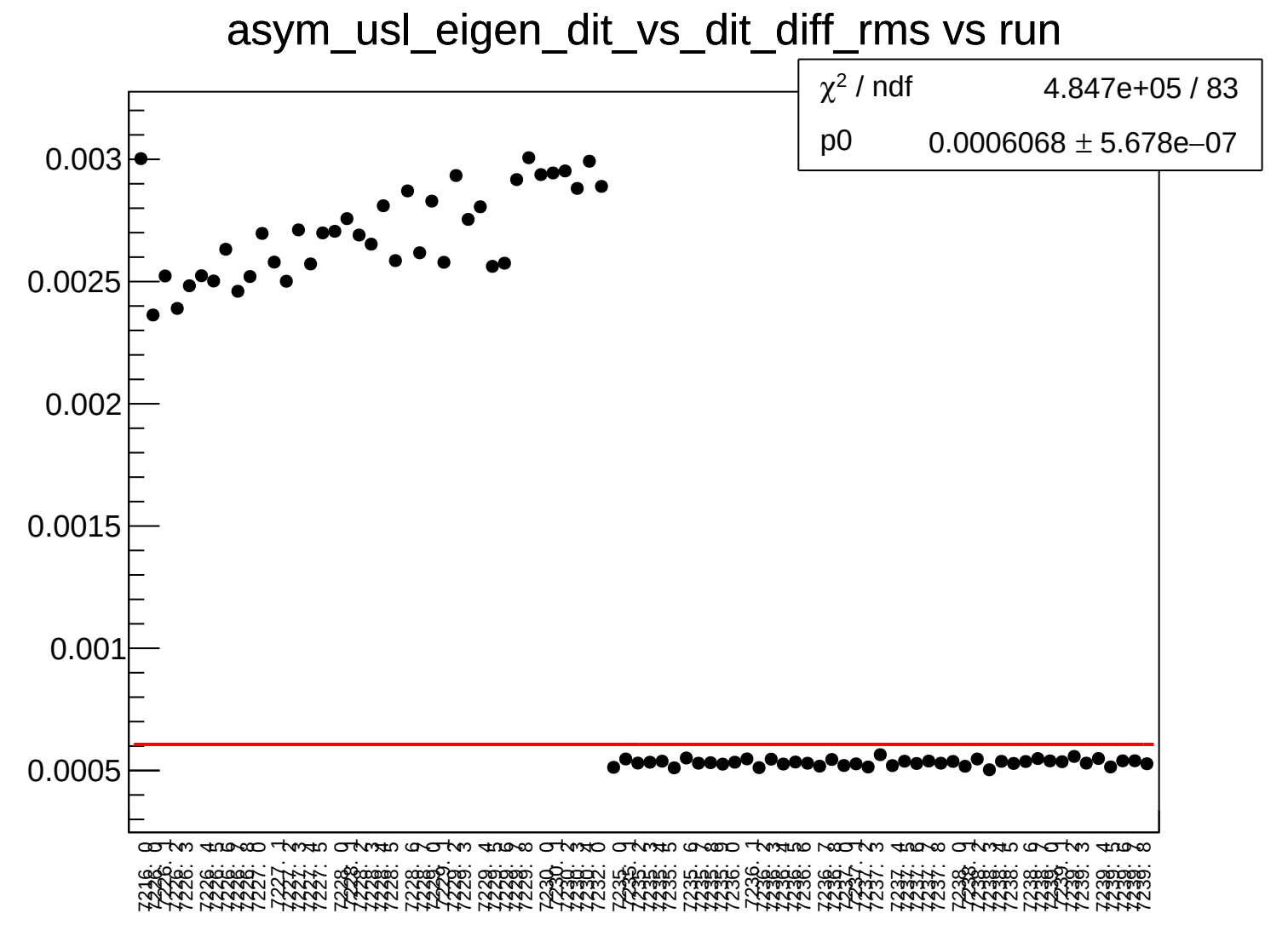

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.472e+05 / 83
p0 36.34 ± 0.02988
80
70
60
50
40
30
20

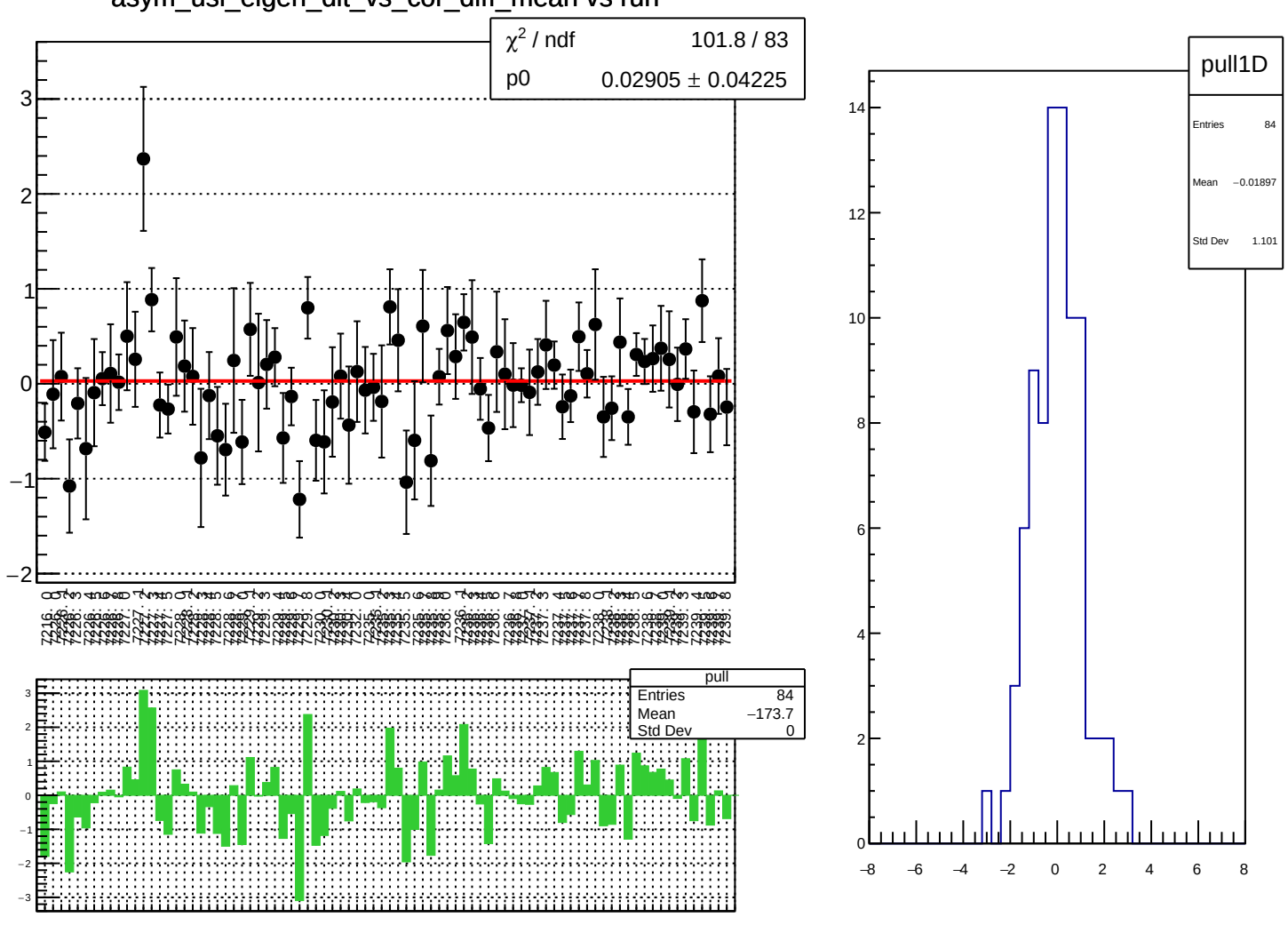

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 97.06 / 83
p0 −0.05478 ± 0.06527
pull
Entries 84
Mean 97.61
Std Dev 0
pull1D
Entries 84
Mean 0.01278
Std Dev 1.075

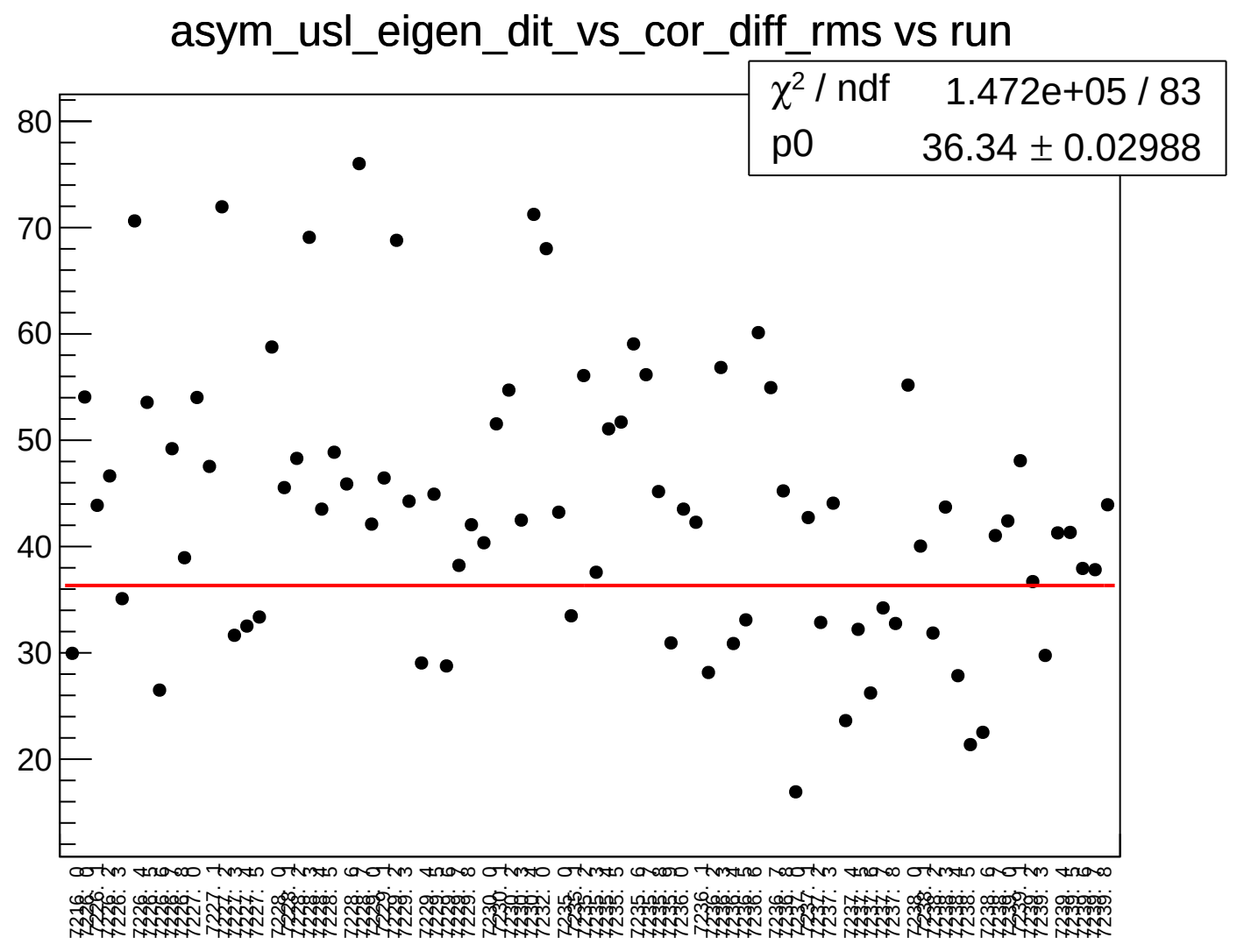

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 7.045e+04 / 83
p0 57.57 ± 0.04615
90
80
70
60
50
40
30

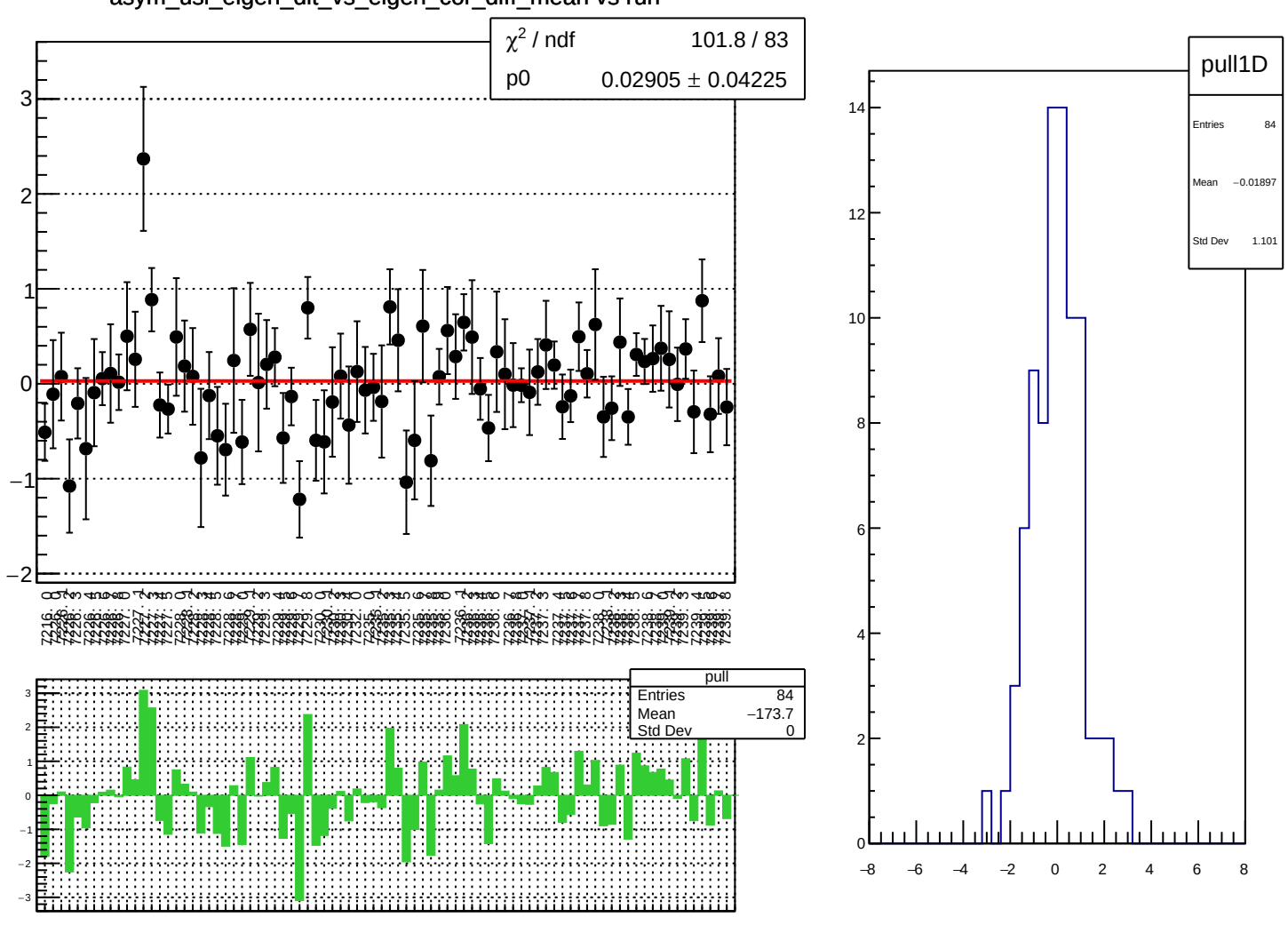

asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.55 / 83
p0 1.318e−07 ± 8.031e−07
0.1
0.05
0
−0.05
−0.1
pull
Entries 84
Mean 63.03
Std Dev 63.22
2
1
0
−1
−2
−3

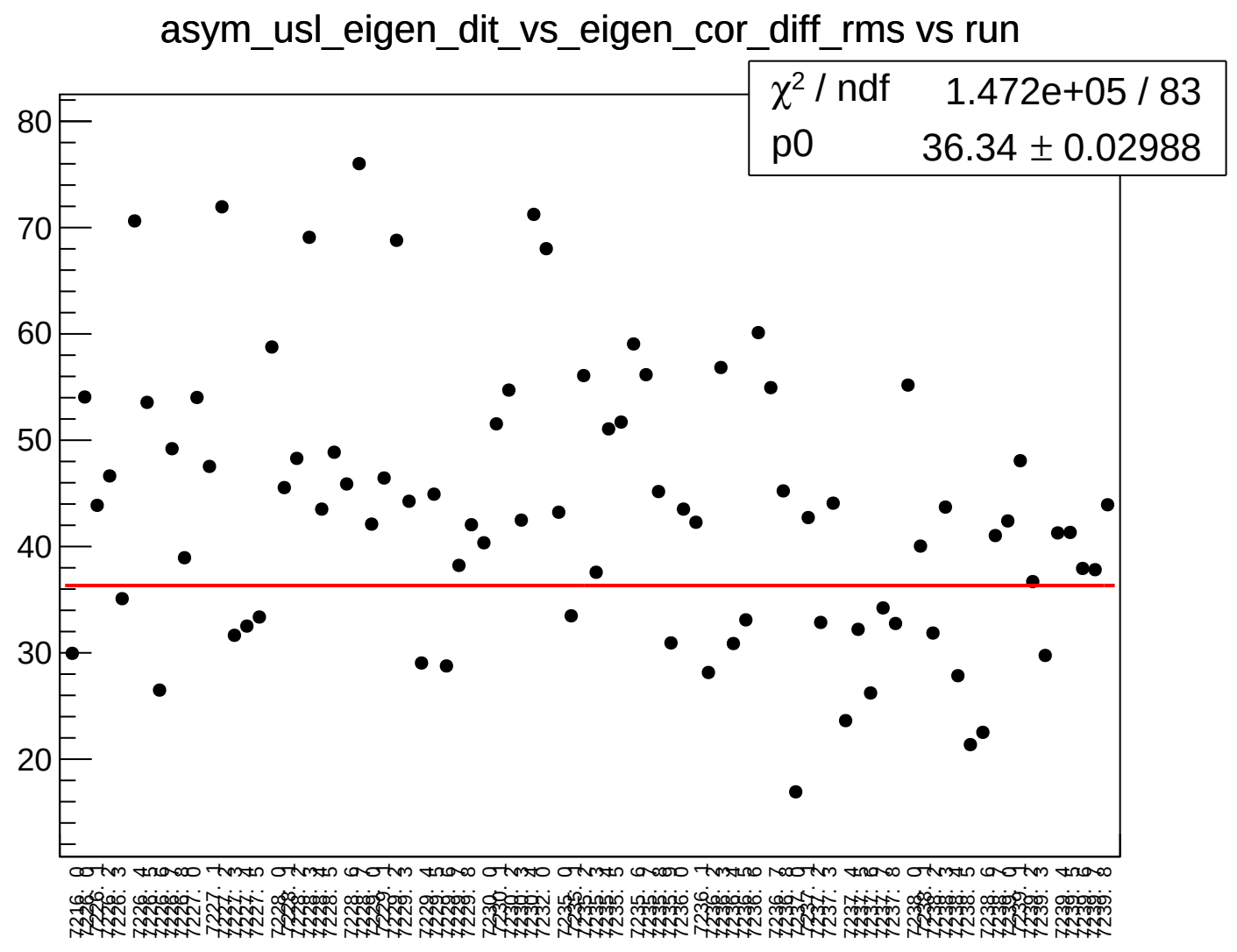

pull1D
Entries 84
Mean −0.03491
Std Dev 1.077
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

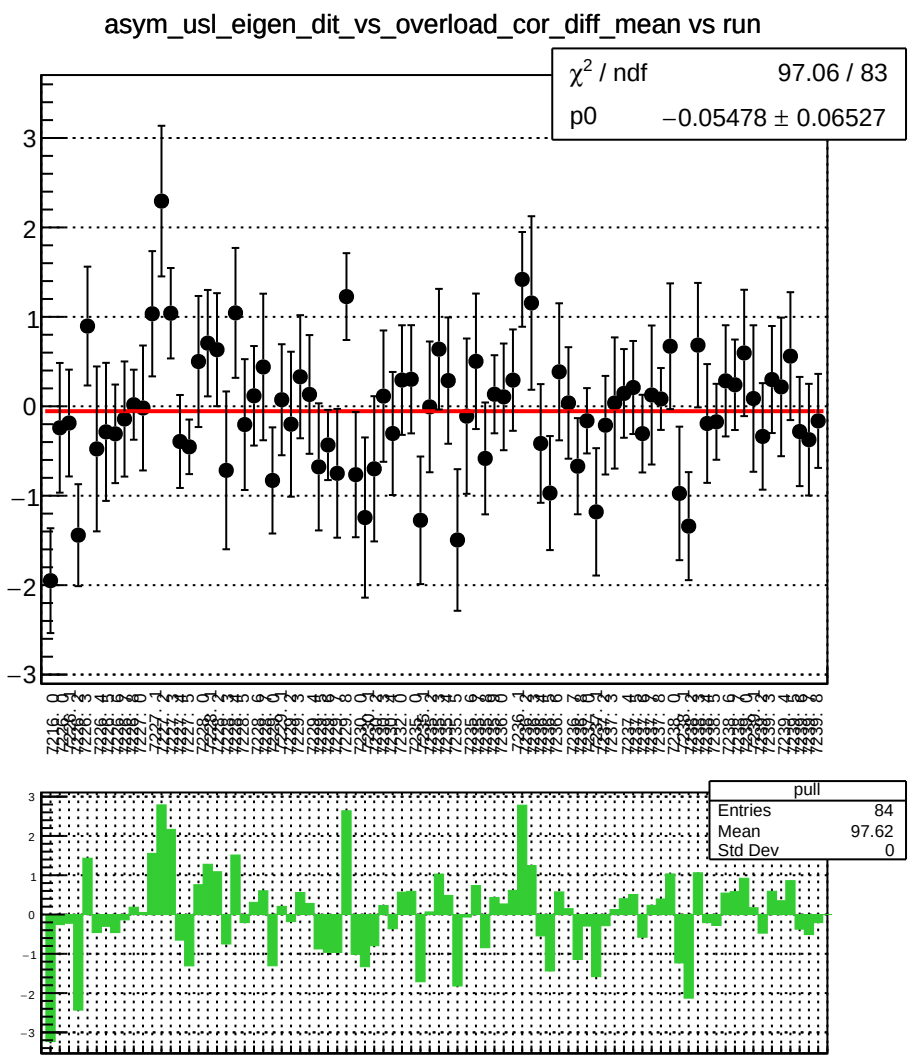

asym_usl_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.847e+05 / 83
p0 0.0006068 ± 5.678e−07
0.003
0.0025
0.002
0.0015
0.001
0.0005

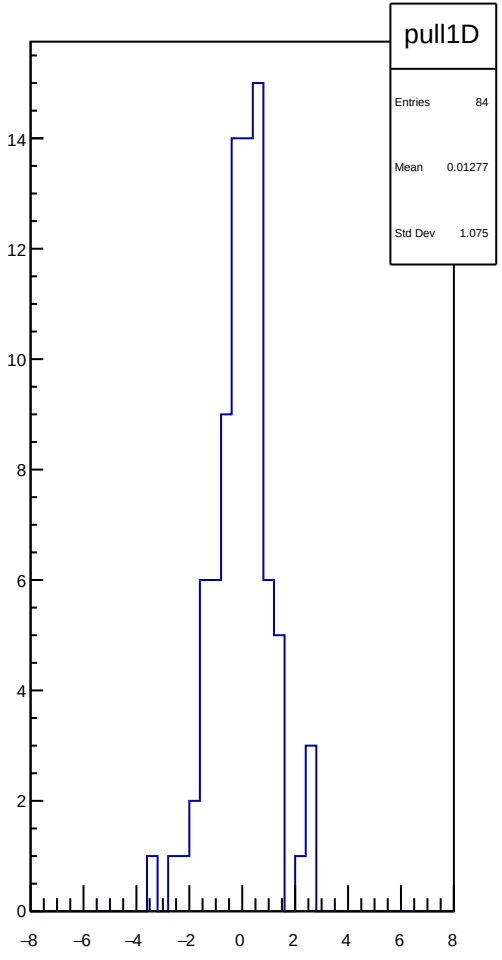

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101.8 / 83
p0 0.02905 ± 0.04225
pull
Entries 84
Mean −173.7
Std Dev 0
pull1D
Entries 84
Mean −0.01897
Std Dev 1.101

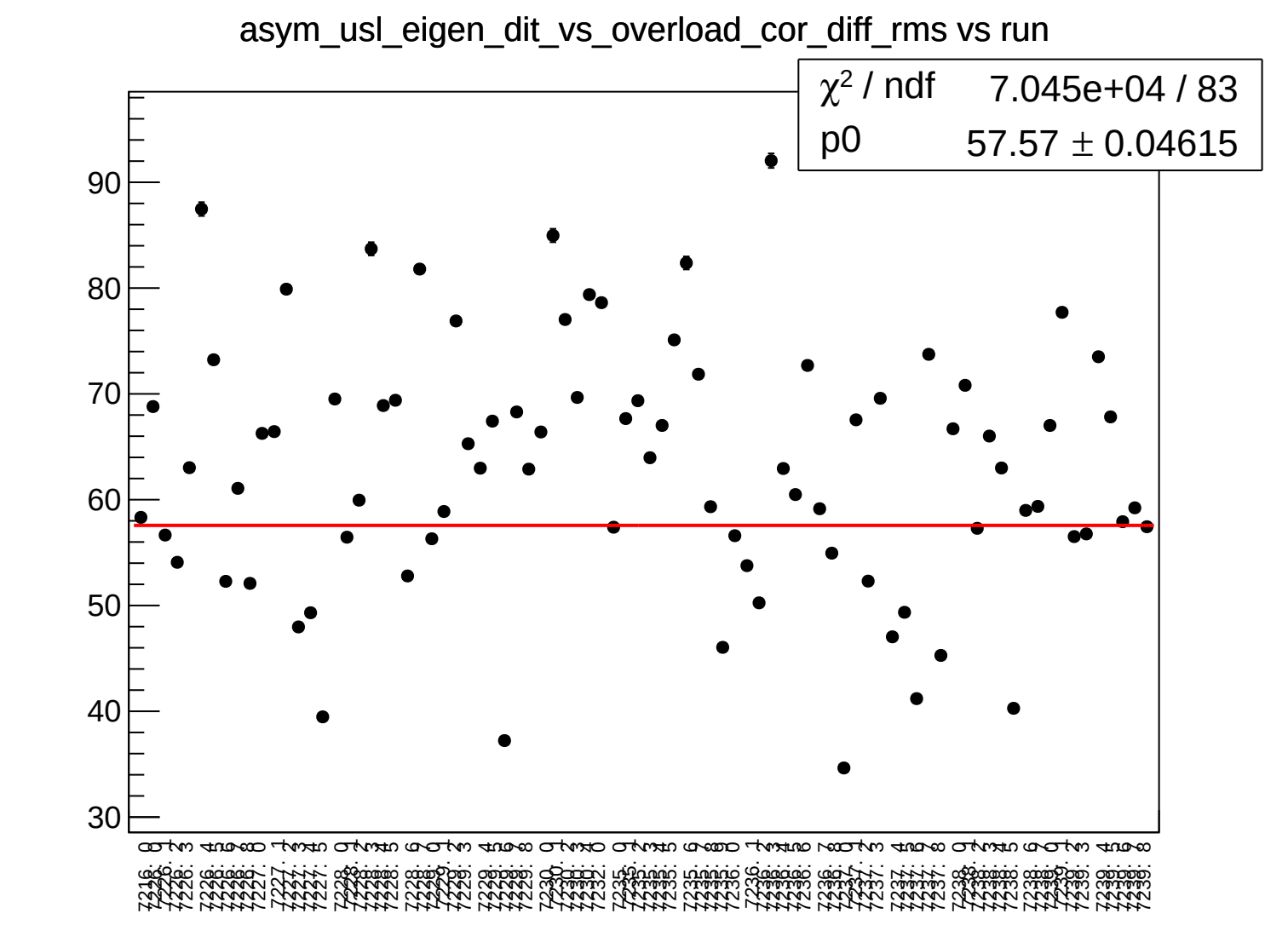

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.472e+05 / 83
p0 36.34 ± 0.02988
80
70
60
50
40
30
20

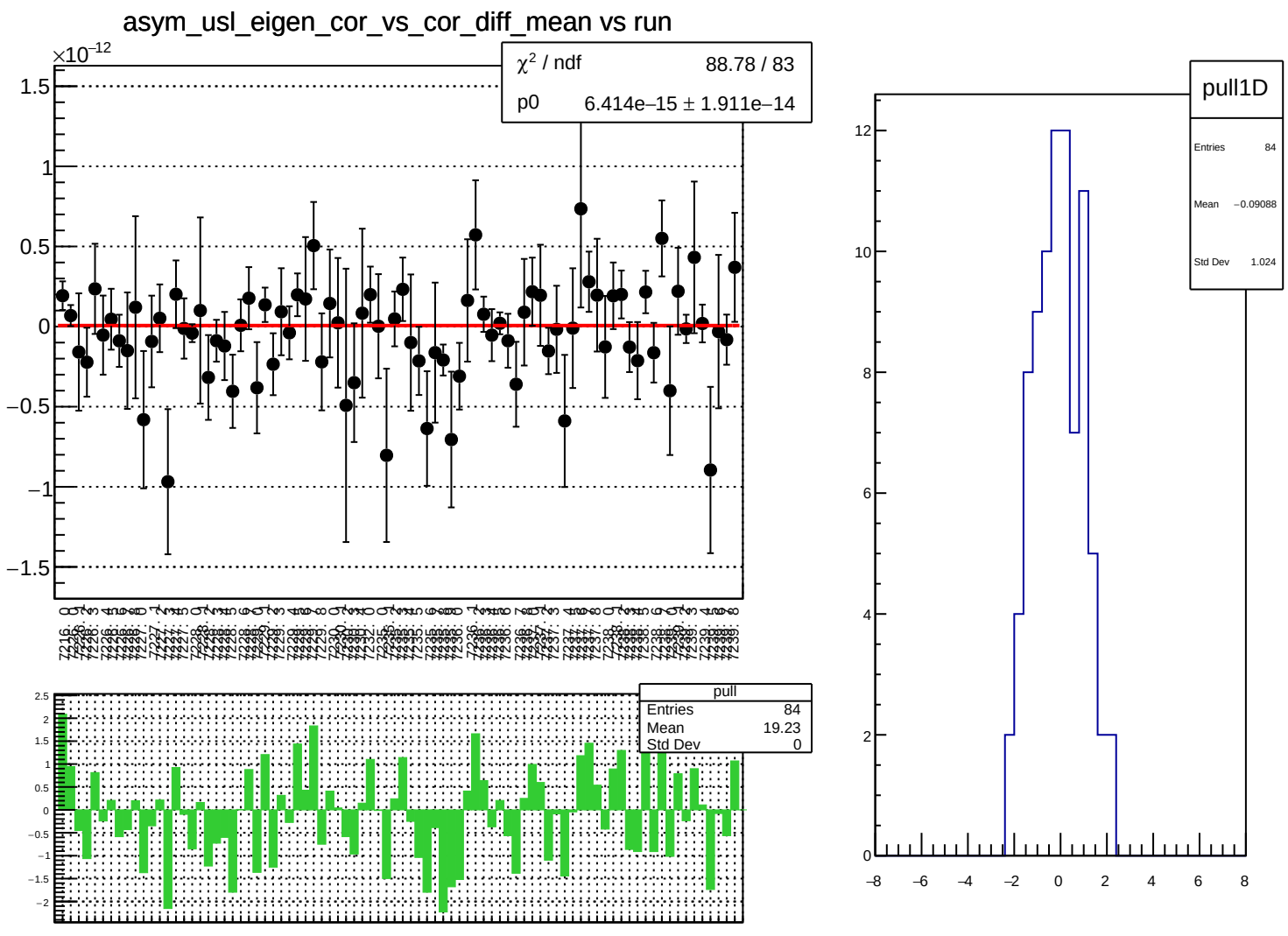

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.8 / 83
p0 0.02905 ± 0.04225
pull
Entries 84
Mean −173.7
Std Dev 0
pull1D
Entries 84
Mean −0.01897
Std Dev 1.101

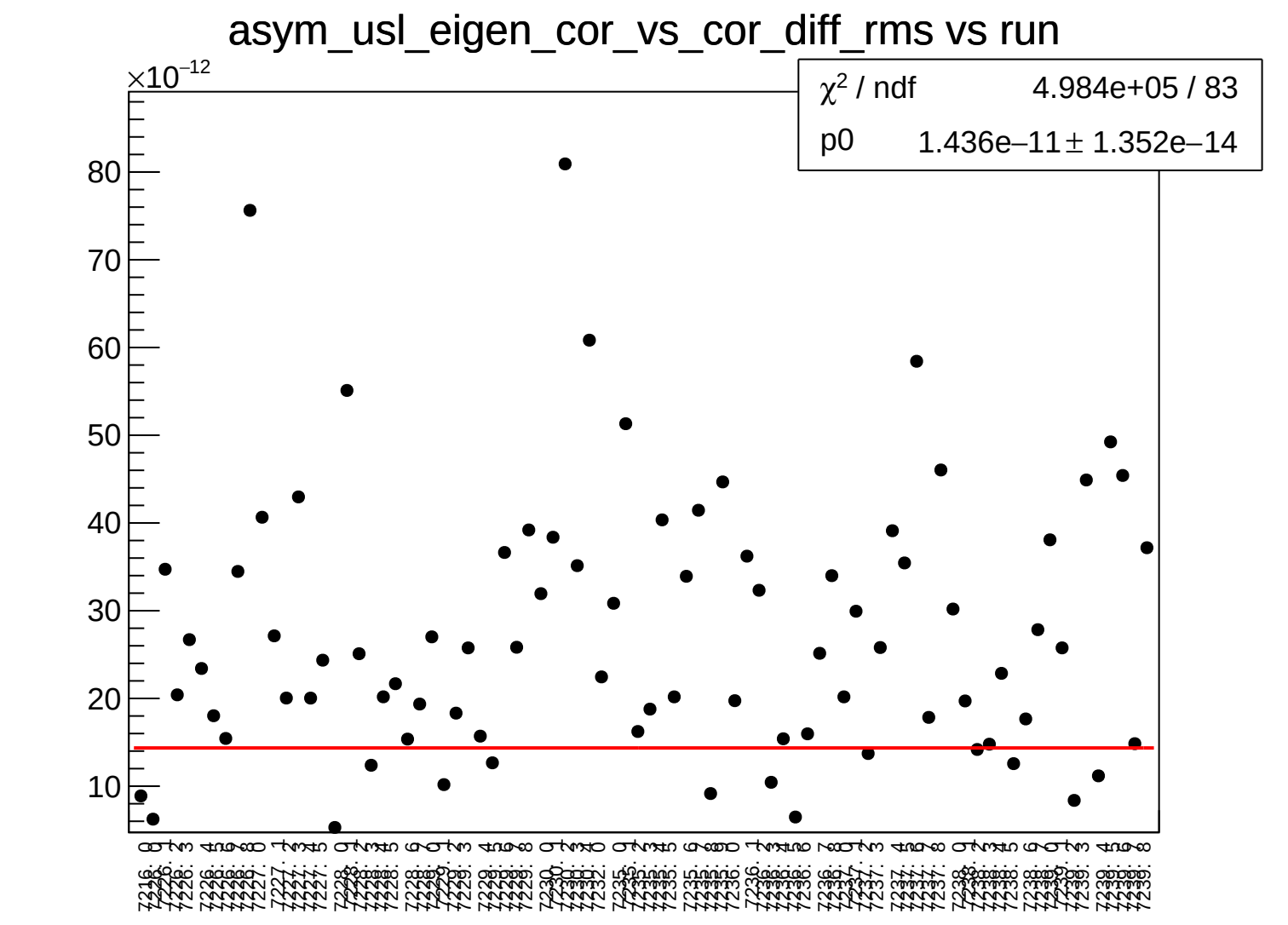

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.472e+05 / 83
p0 36.34 ± 0.02988
80
70
60
50
40
30
20

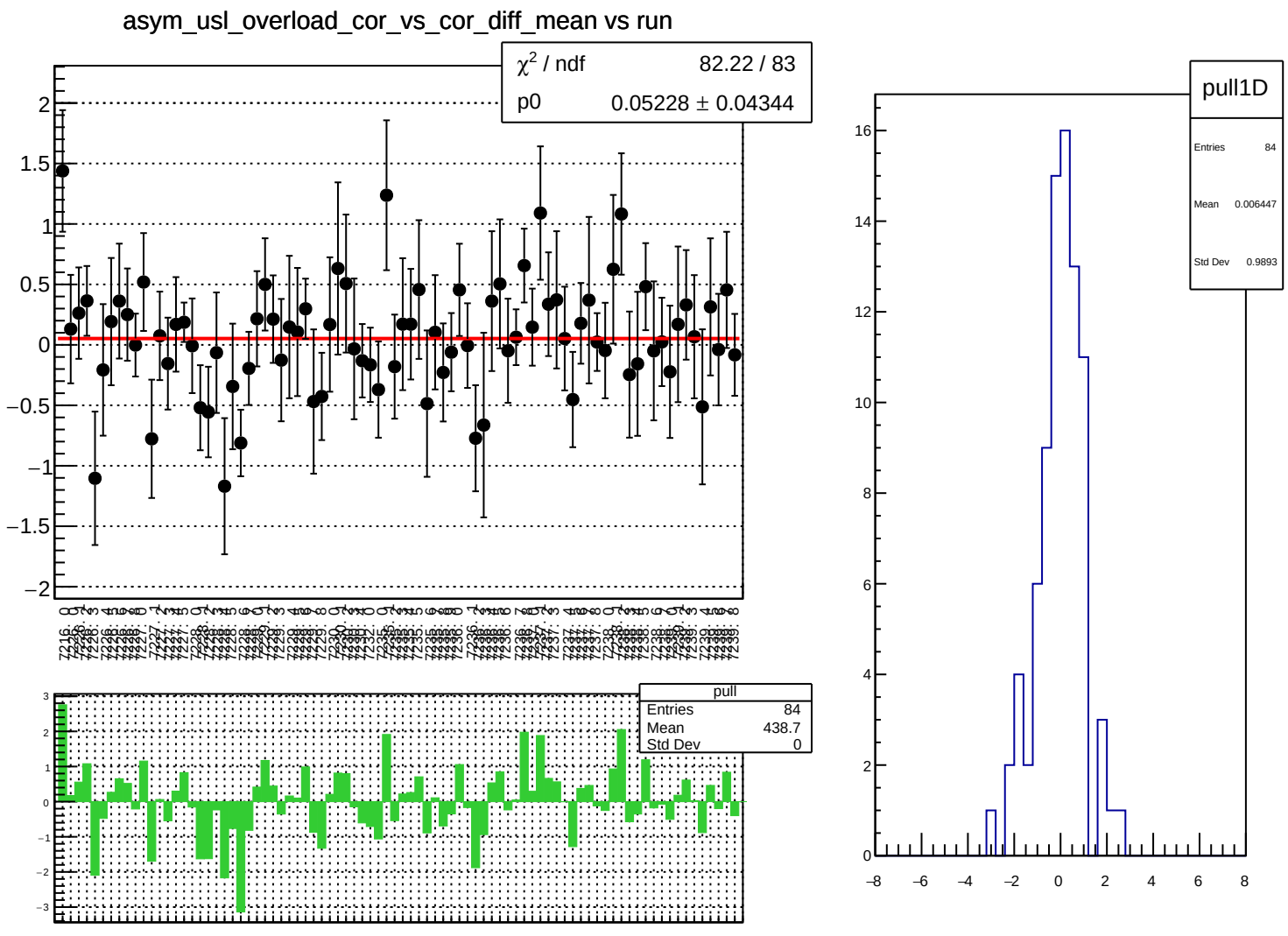

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 97.06 / 83
p0 −0.05478 ± 0.06527
pull
Entries 84
Mean 97.62
Std Dev 0

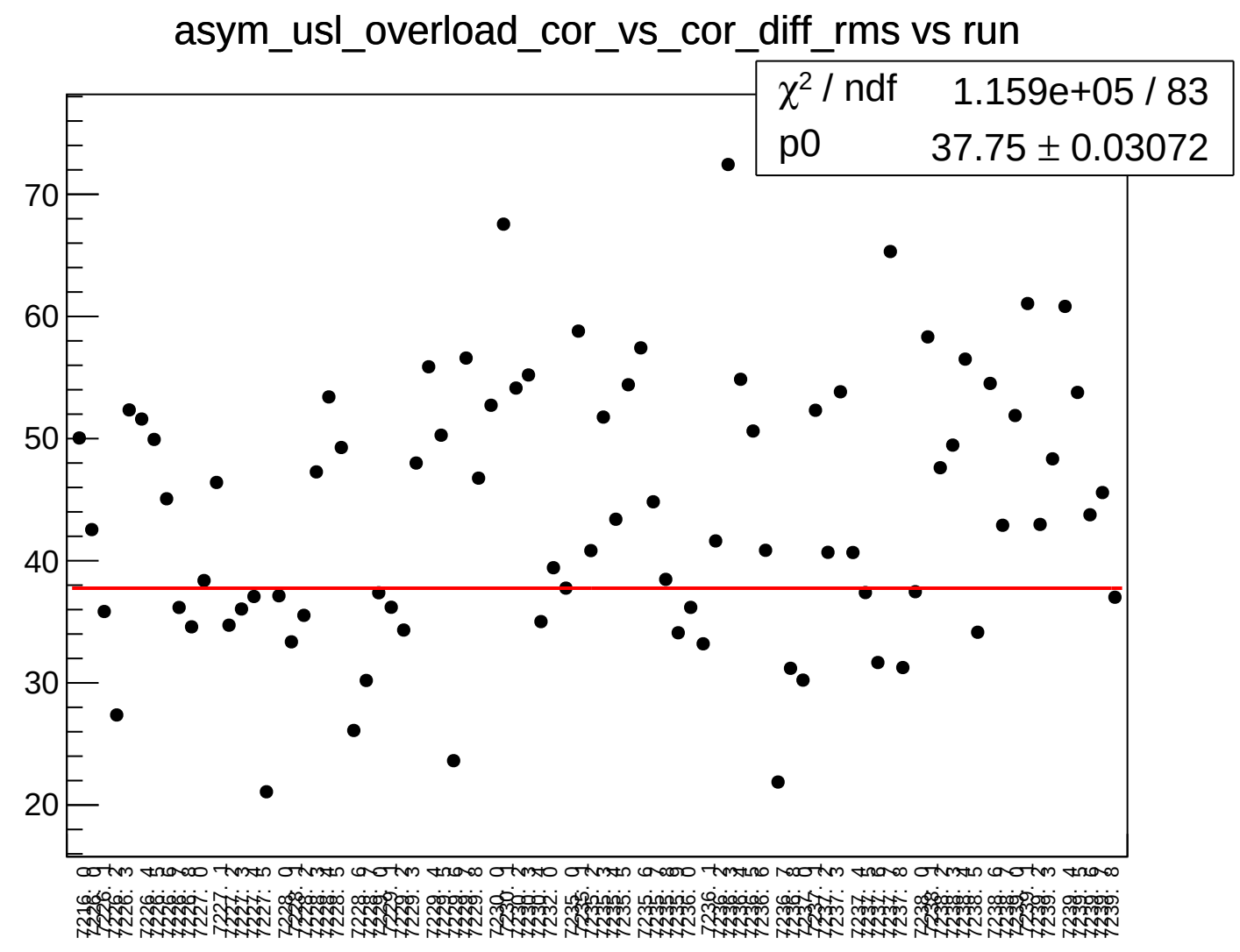

pull1D
Entries 84
Mean 0.01277
Std Dev 1.075

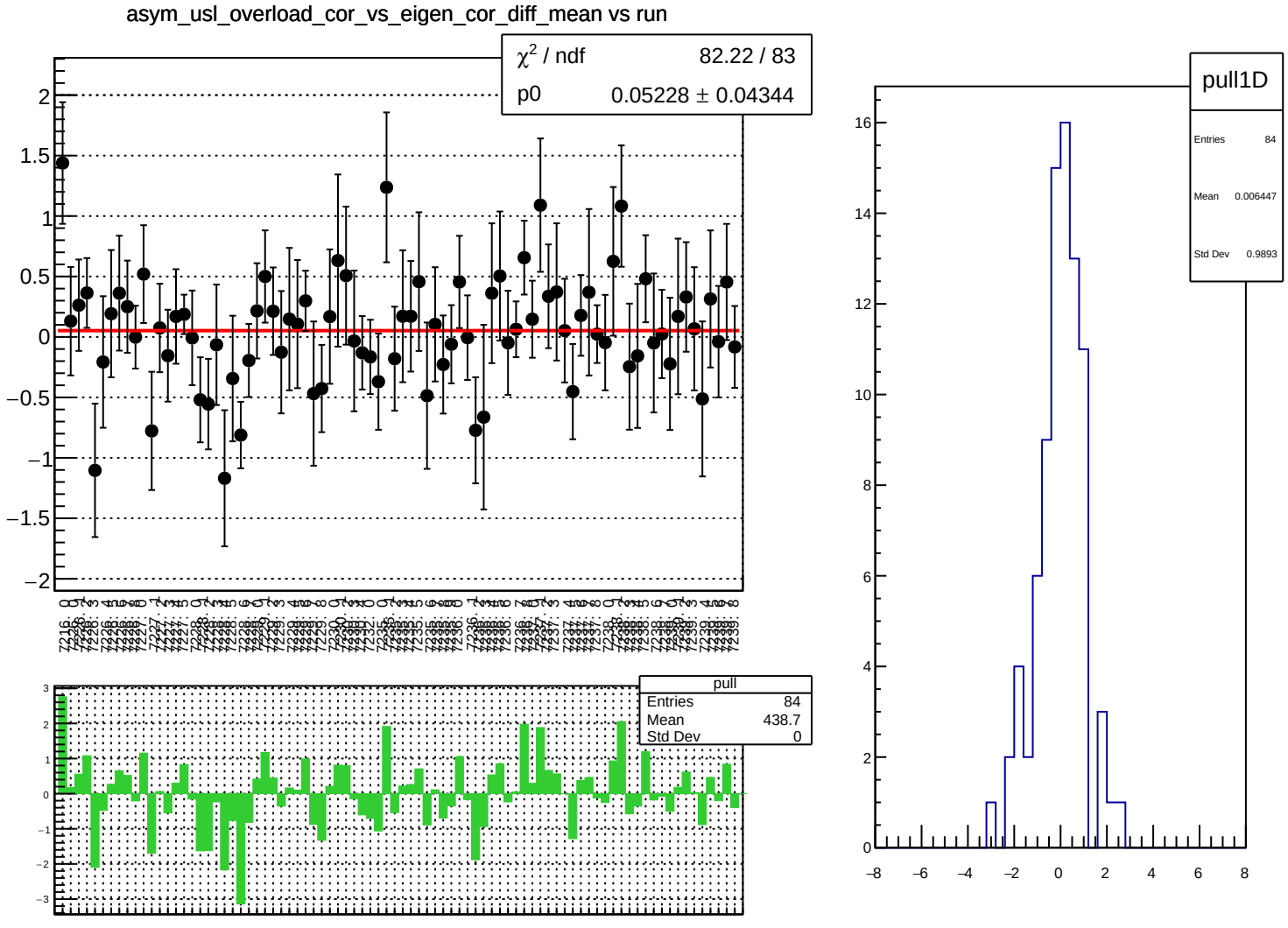

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 7.045e+04 / 83
p0 57.57 ± 0.04615
90
80
70
60
50
40
30

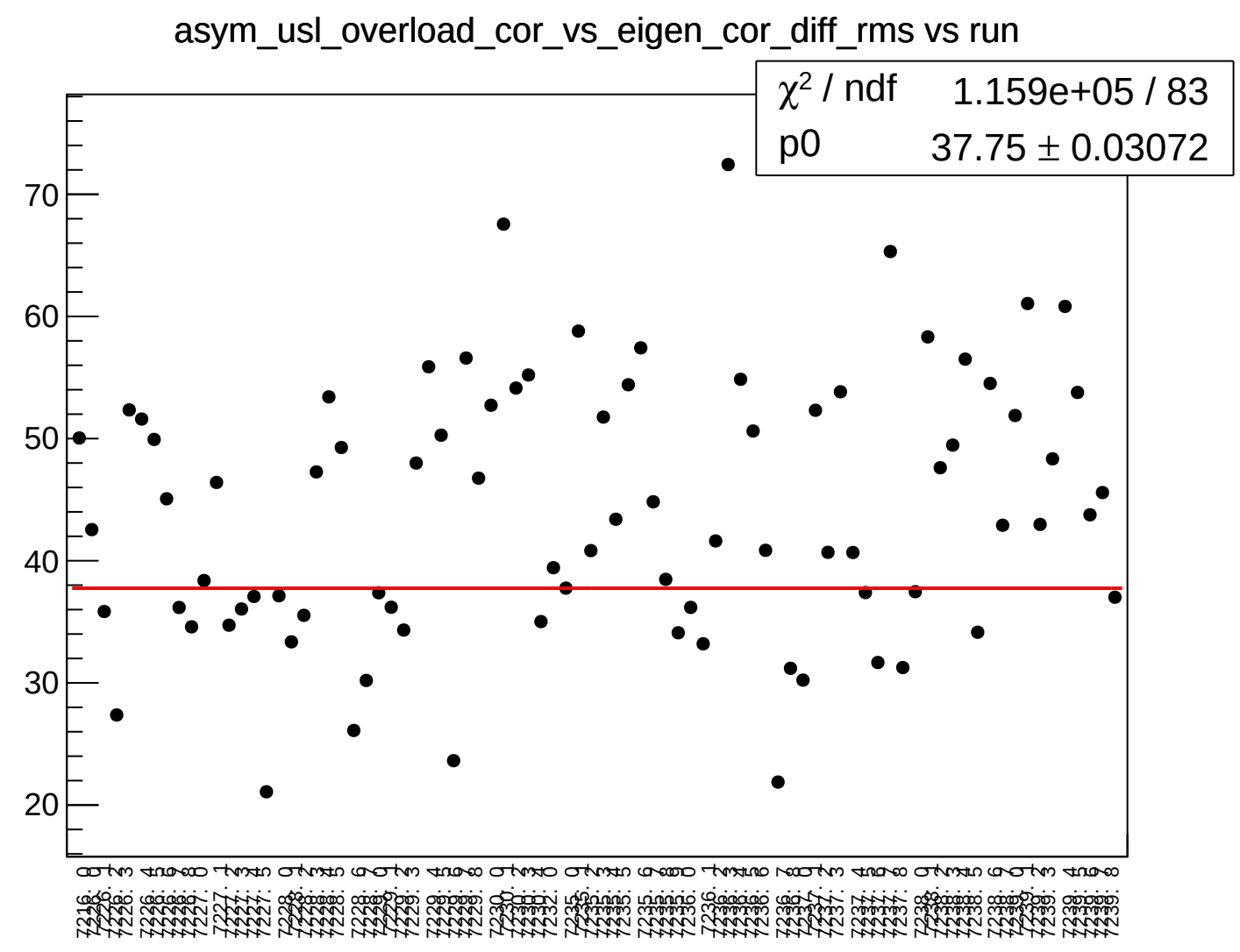

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.78 / 83
p0 6.414e−15 ± 1.911e−14
1.5
1
0.5
0
−0.5
−1
−1.5
pull
Entries 84
Mean 19.23
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 84
Mean −0.09088
Std Dev 1.024
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

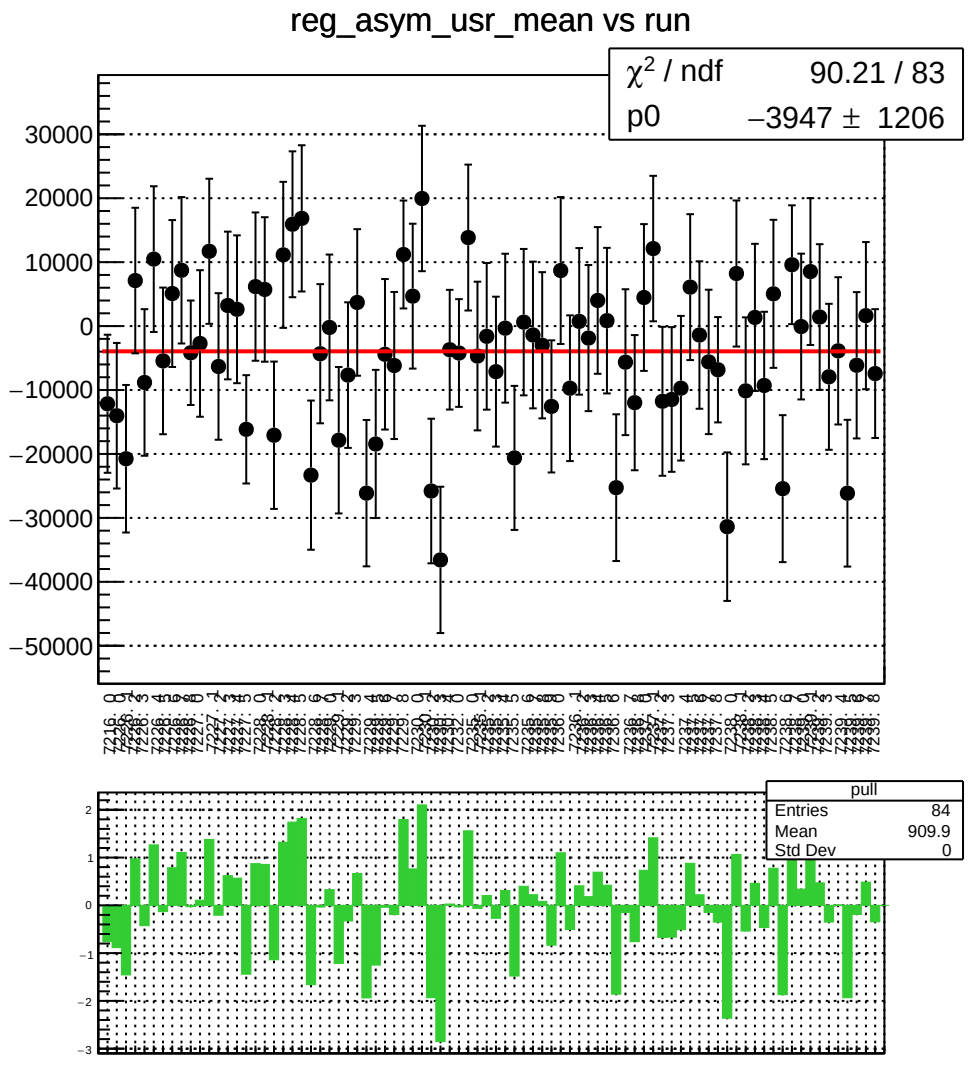

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.984e+05 / 83
p0 1.436e−11 ± 1.352e−14
80
70
60
50
40
30
20
10

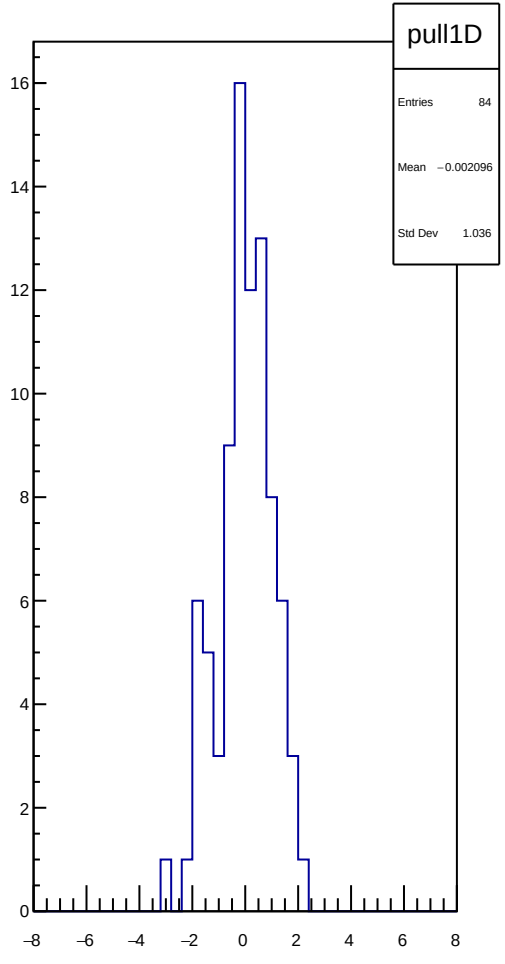

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 82.22 / 83
p0 0.05228 ± 0.04344
pull
Entries 84
Mean 438.7
Std Dev 0
pull1D
Entries 84
Mean 0.006447
Std Dev 0.9893

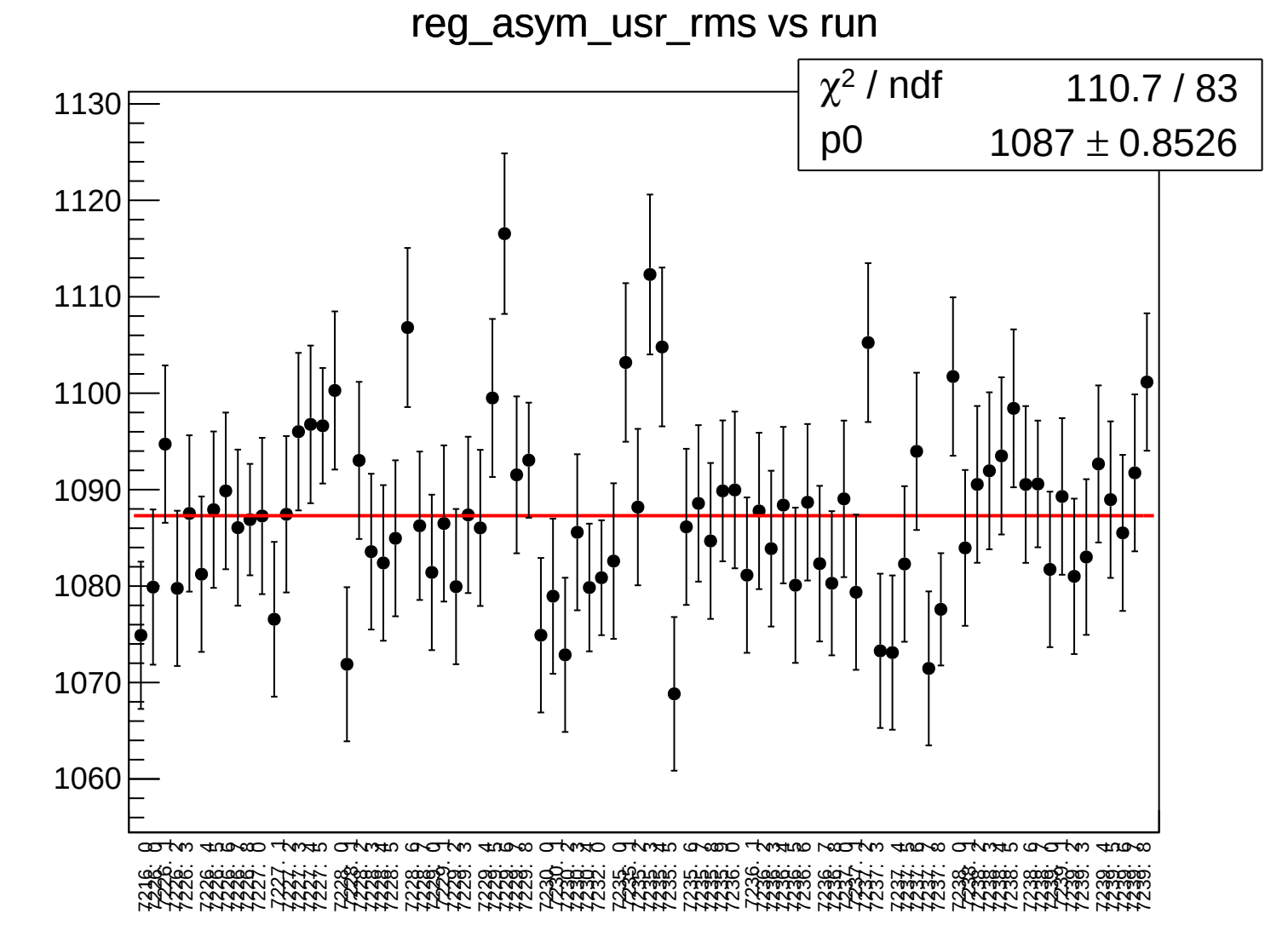

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 1.159e+05 / 83
p0 37.75 ± 0.03072
70
60
50
40
30
20

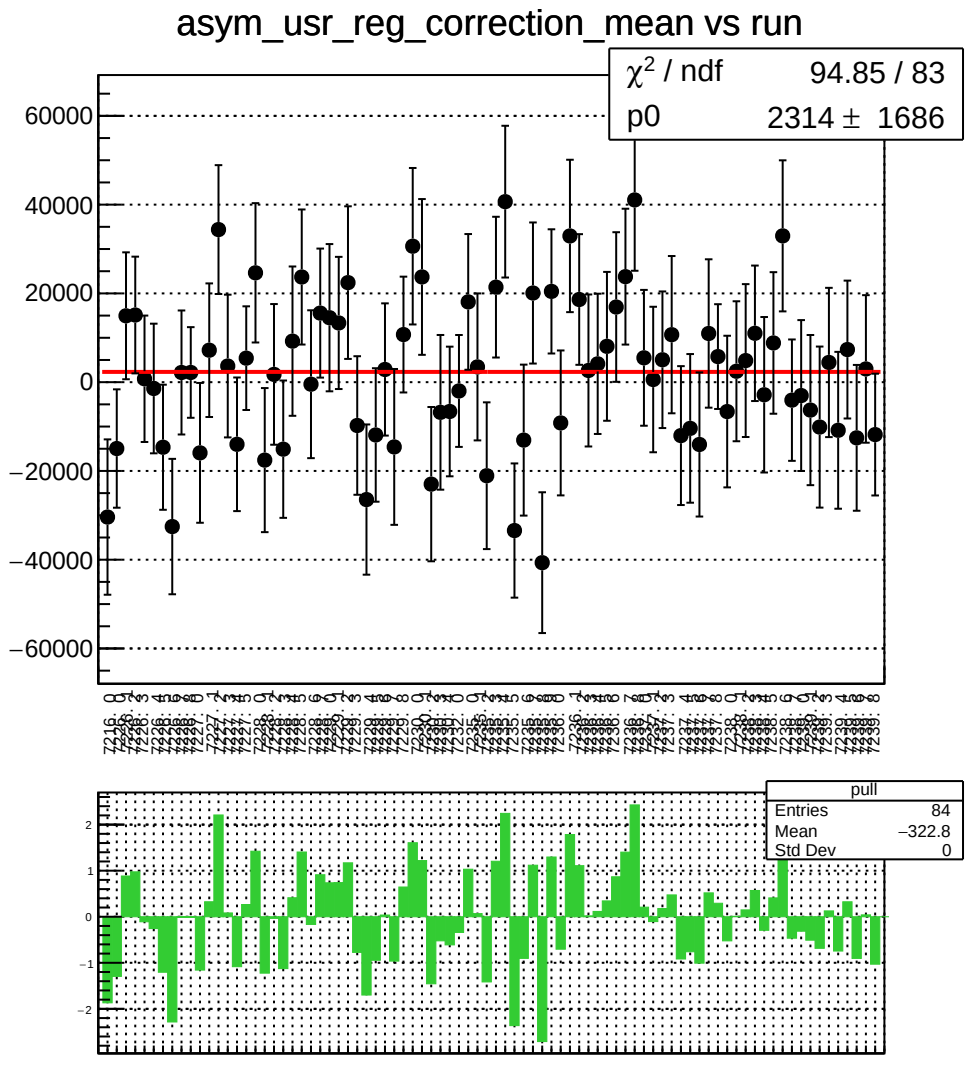

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.22 / 83
p0 0.05228 ± 0.04344
pull
Entries 84
Mean 438.7
Std Dev 0
pull1D
Entries 84
Mean 0.006447
Std Dev 0.9893

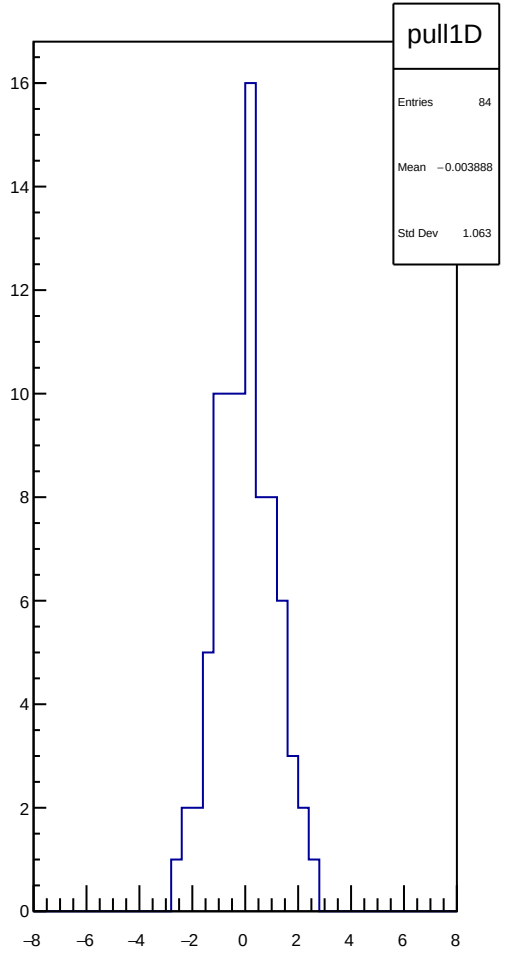

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.159e+05 / 83
p0 37.75 ± 0.03072
70
60
50
40
30
20

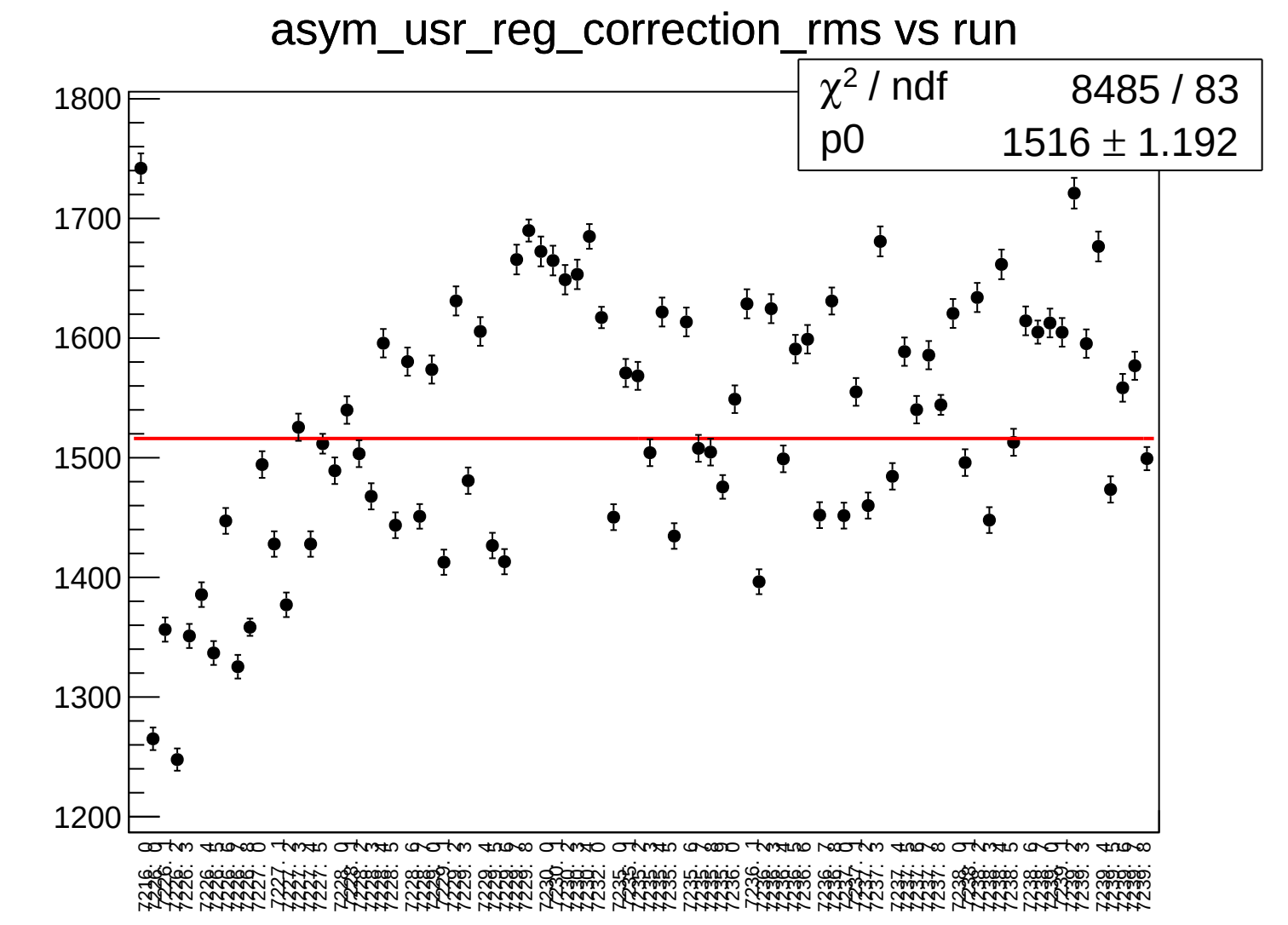

reg_asym_usr_mean vs run
χ² / ndf 90.21 / 83
p0 −3947 ± 1206
pull
Entries 84
Mean 909.9
Std Dev 0

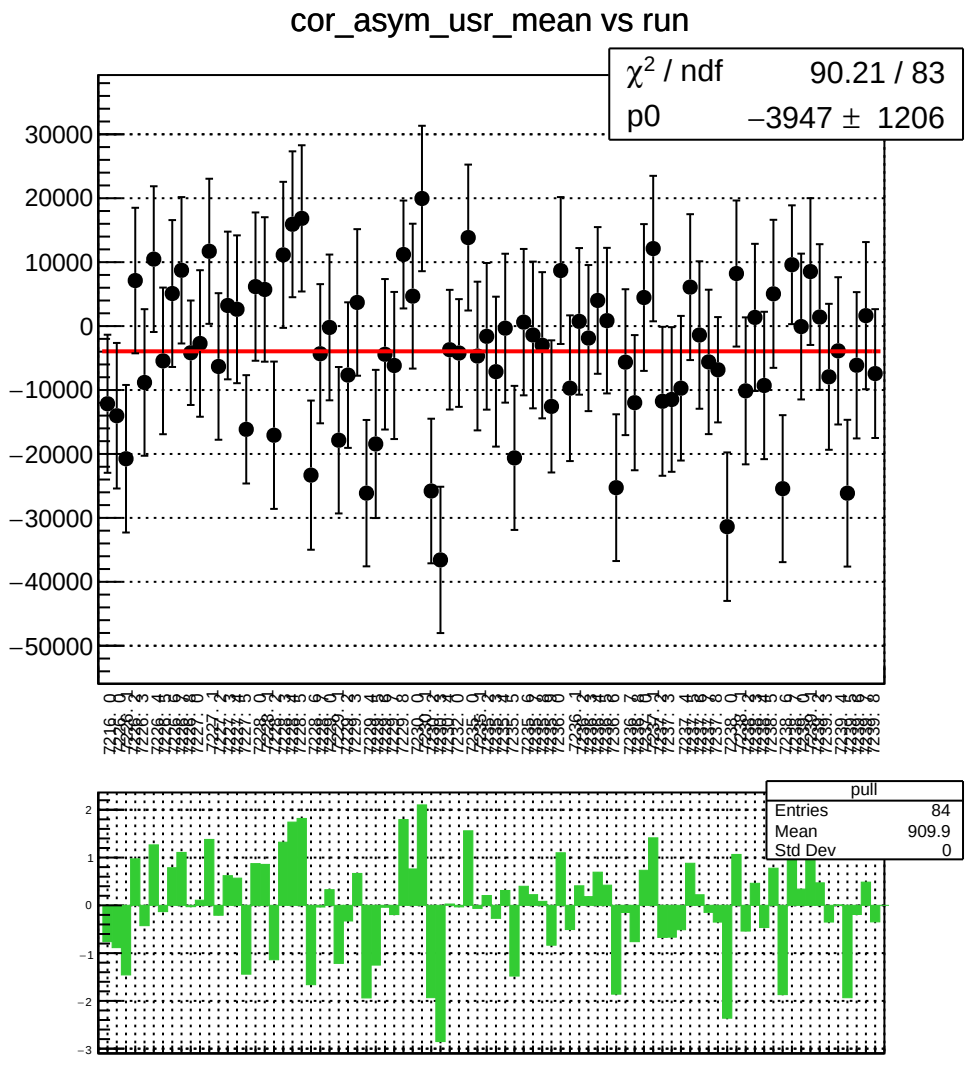

pull1D
Entries 84
Mean −0.002096
Std Dev 1.036

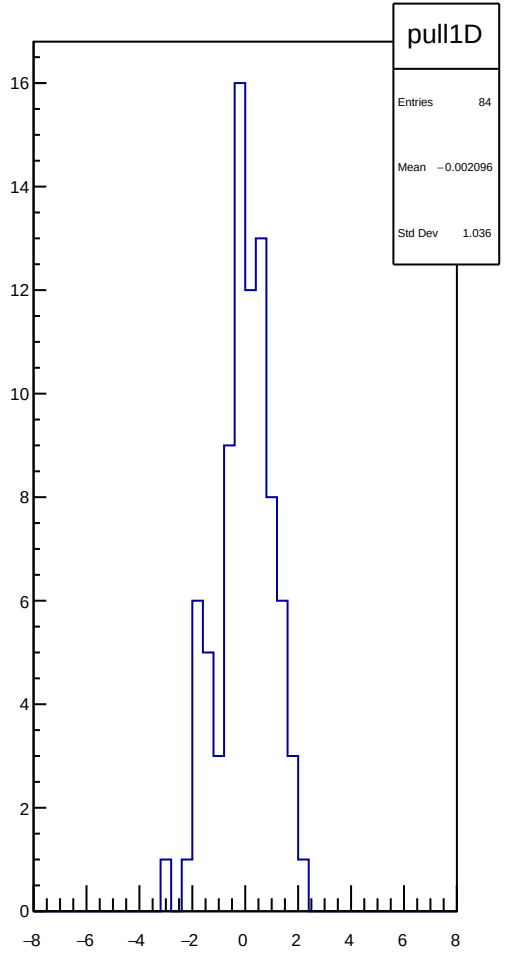

reg_asym_usr_rms vs run
χ² / ndf 110.7 / 83
p0 1087 ± 0.8526
1130
1120
1110
1100
1090
1080
1070
1060

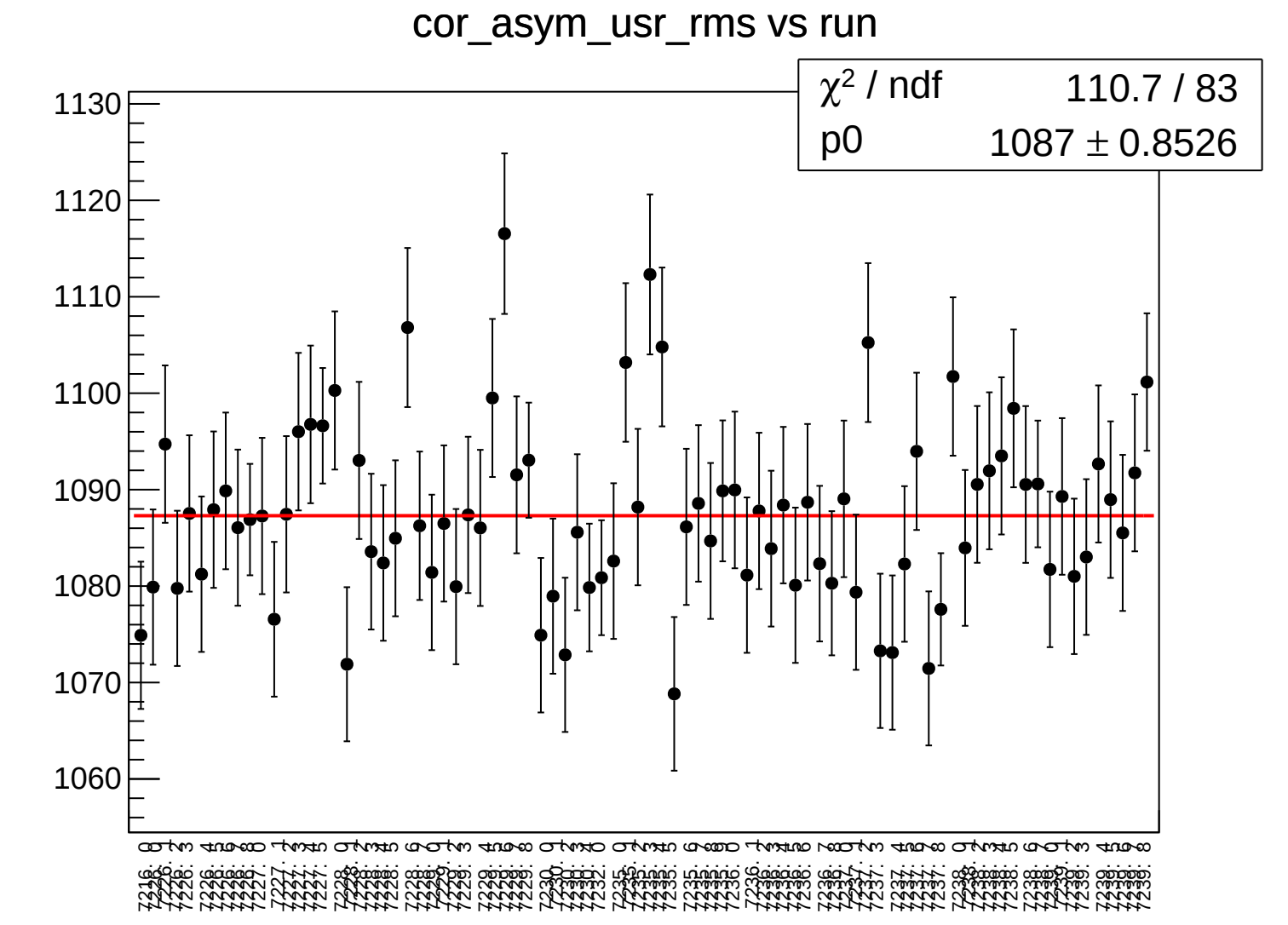

asym_usr_reg_correction_mean vs run
χ² / ndf 94.85 / 83
p0 2314 ± 1686
pull
Entries 84
Mean −322.8
Std Dev 0

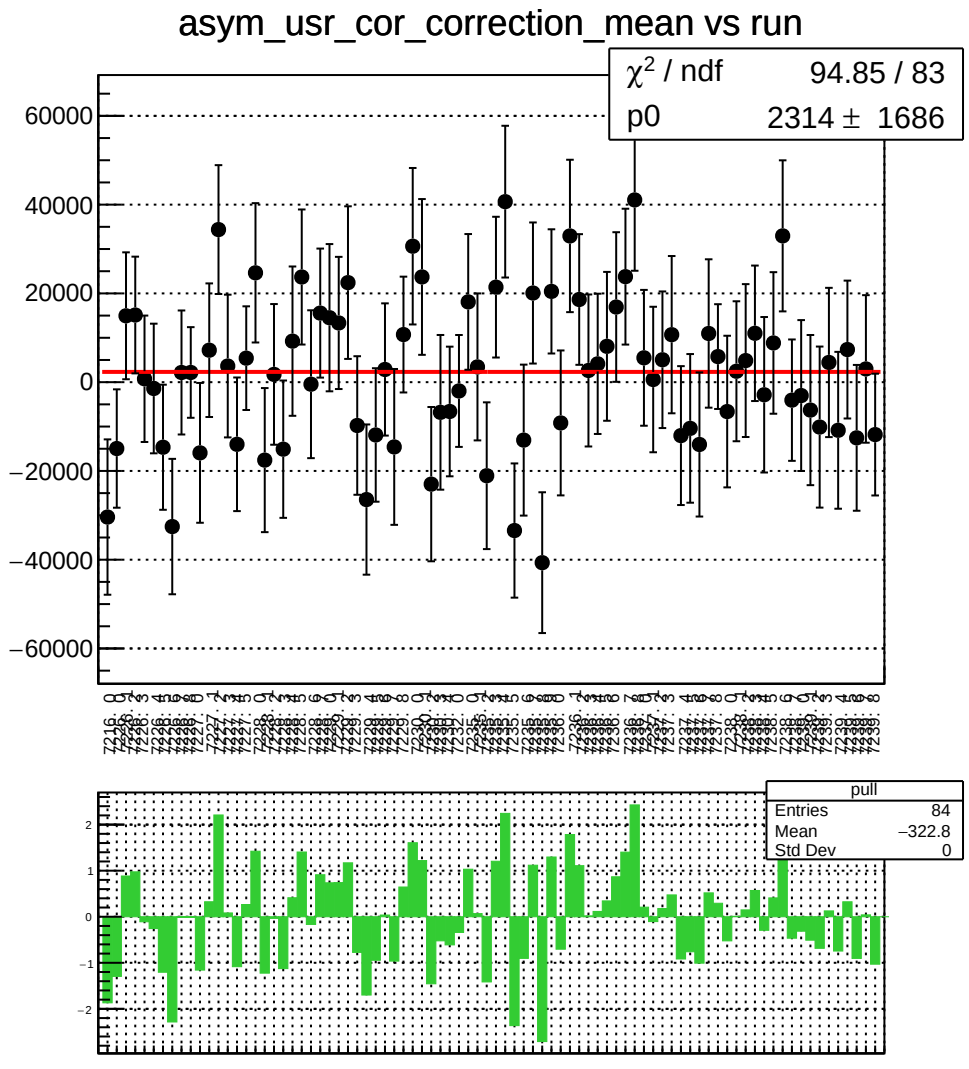

pull1D
Entries 84
Mean −0.003888
Std Dev 1.063

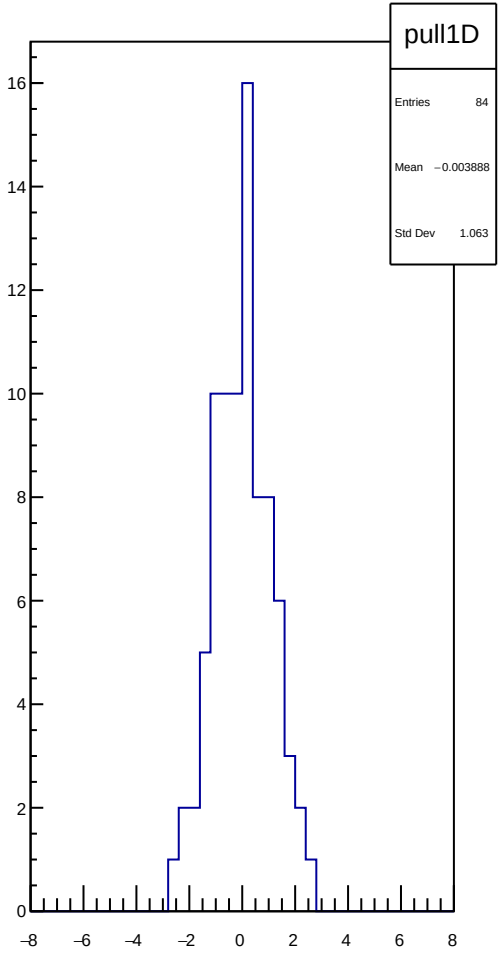

asym_usr_reg_correction_rms vs run
χ² / ndf 8485 / 83
p0 1516 ± 1.192
1800
1700
1600
1500
1400
1300
1200

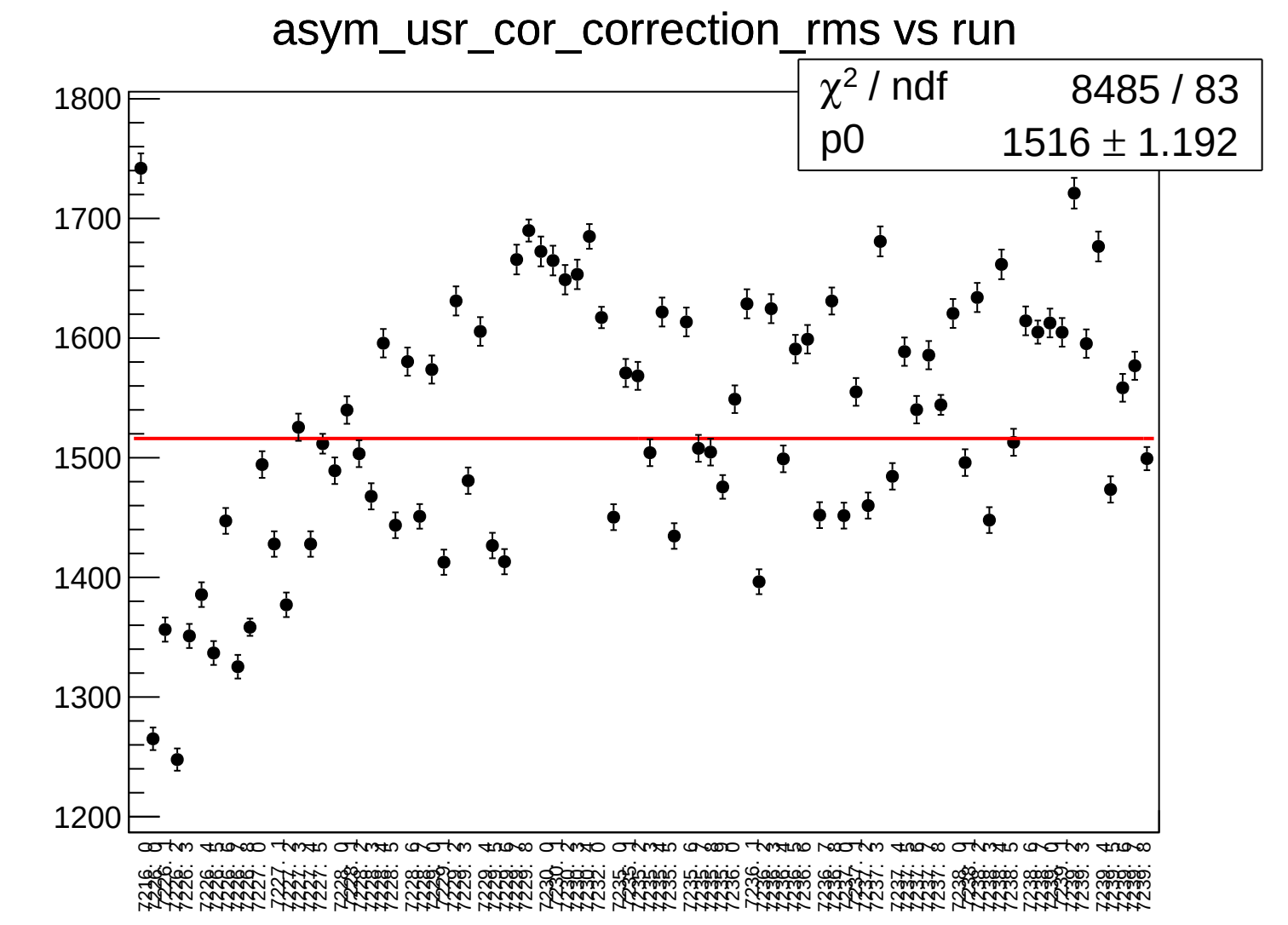

cor_asym_usr_mean vs run
χ² / ndf 90.21 / 83
p0 −3947 ± 1206
pull
Entries 84
Mean 909.9
Std Dev 0

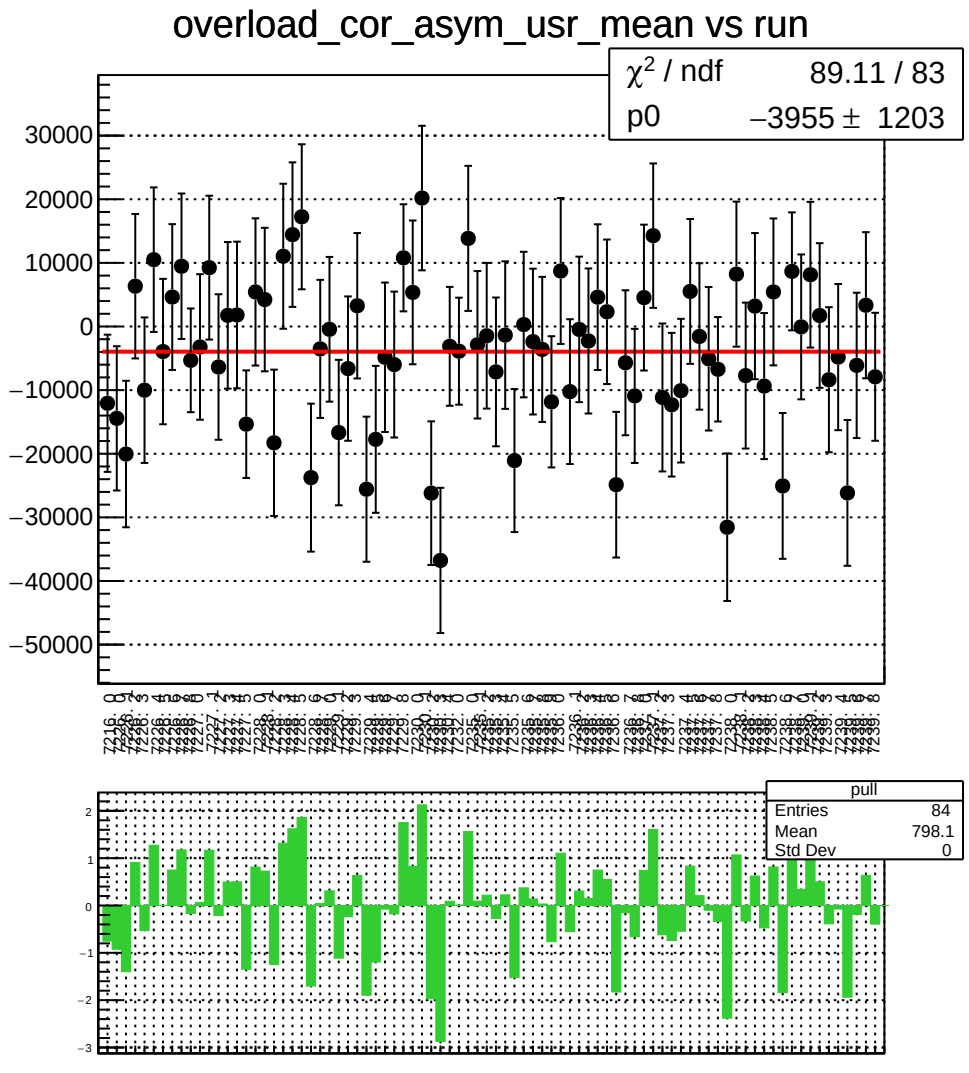

pull1D
Entries 84
Mean −0.002096
Std Dev 1.036

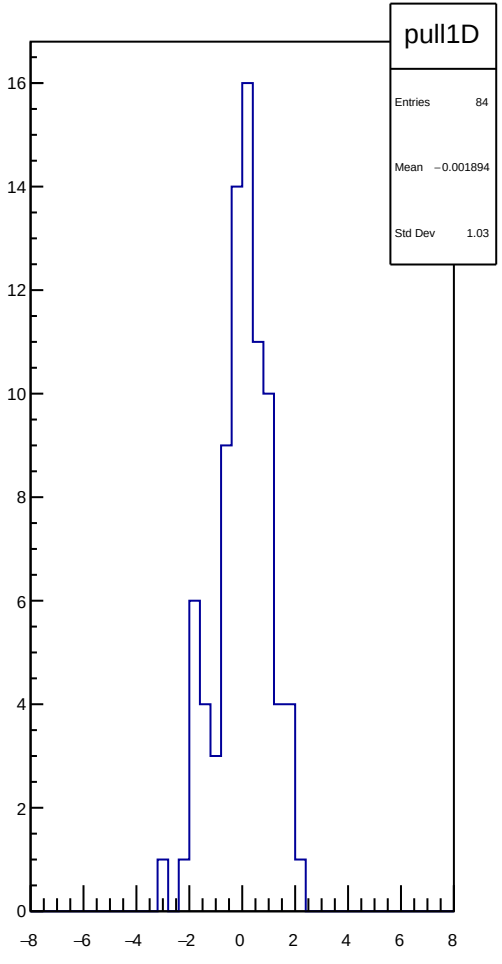

cor_asym_usr_rms vs run
χ² / ndf 110.7 / 83
p0 1087 ± 0.8526
1130
1120
1110
1100
1090
1080
1070
1060

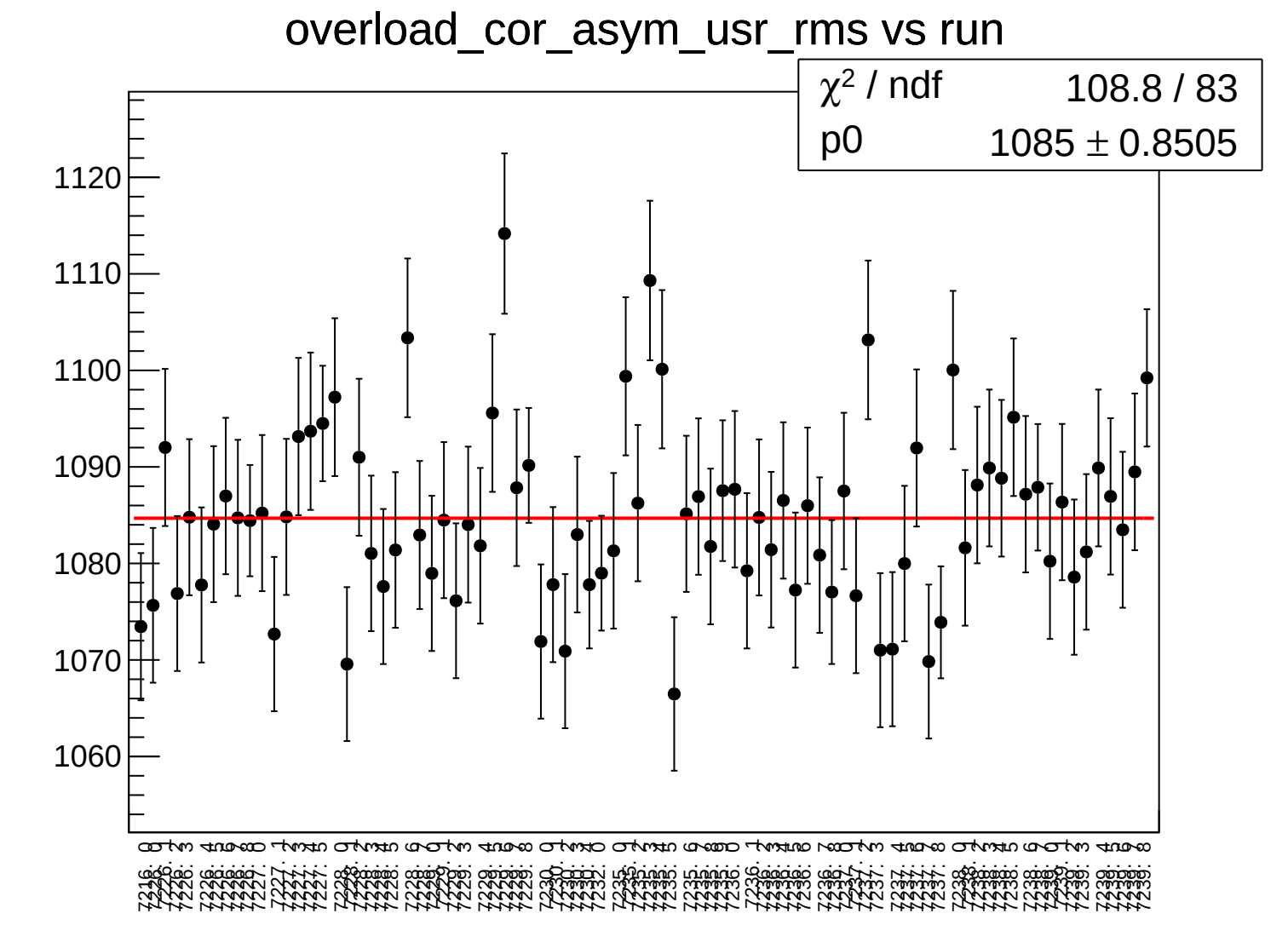

asym_usr_cor_correction_mean vs run
χ² / ndf 94.85 / 83
p0 2314 ± 1686
pull
Entries 84
Mean −322.8
Std Dev 0

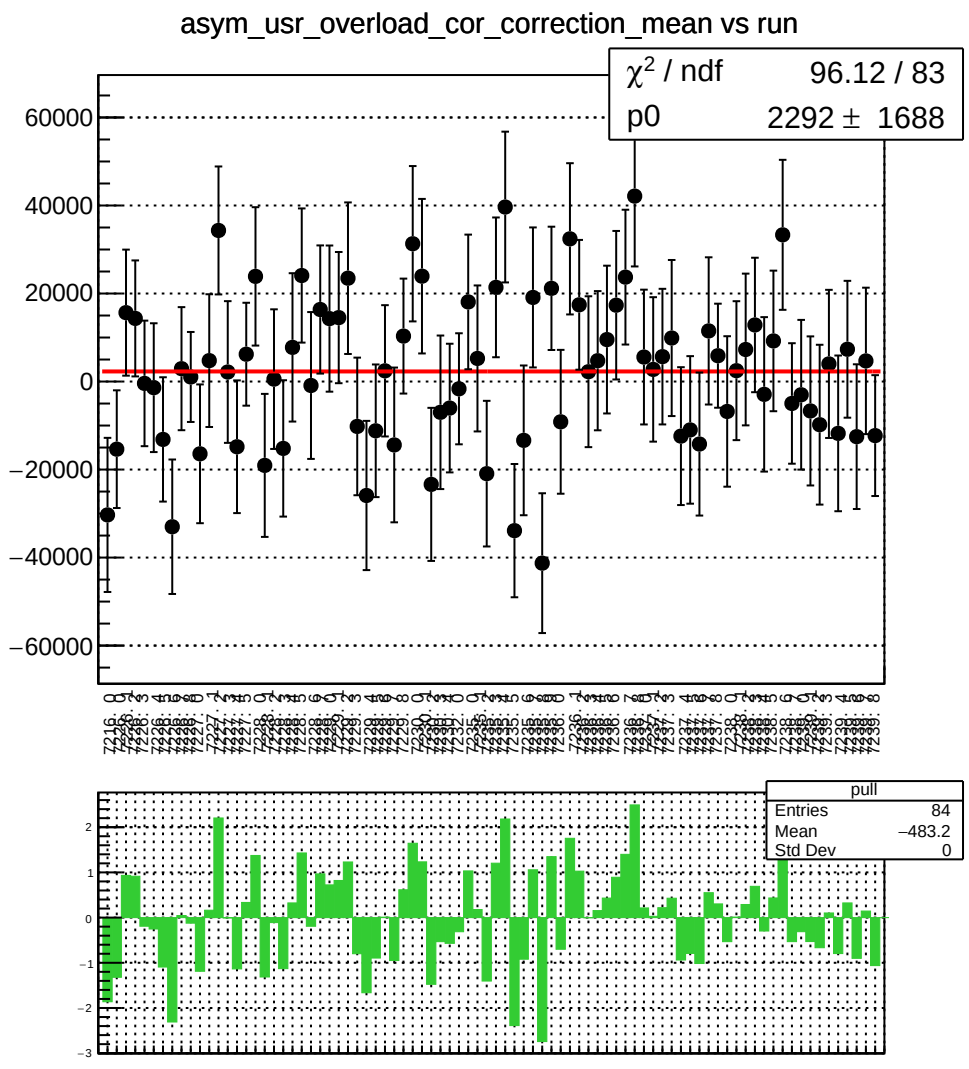

pull1D
Entries 84
Mean −0.003888
Std Dev 1.063

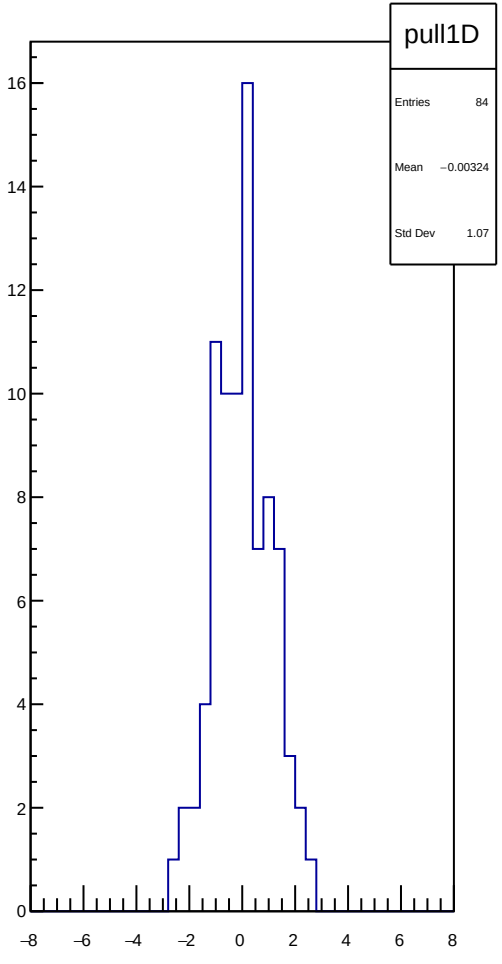

asym_usr_cor_correction_rms vs run
χ² / ndf 8485 / 83
p0 1516 ± 1.192
1800
1700
1600
1500
1400
1300
1200

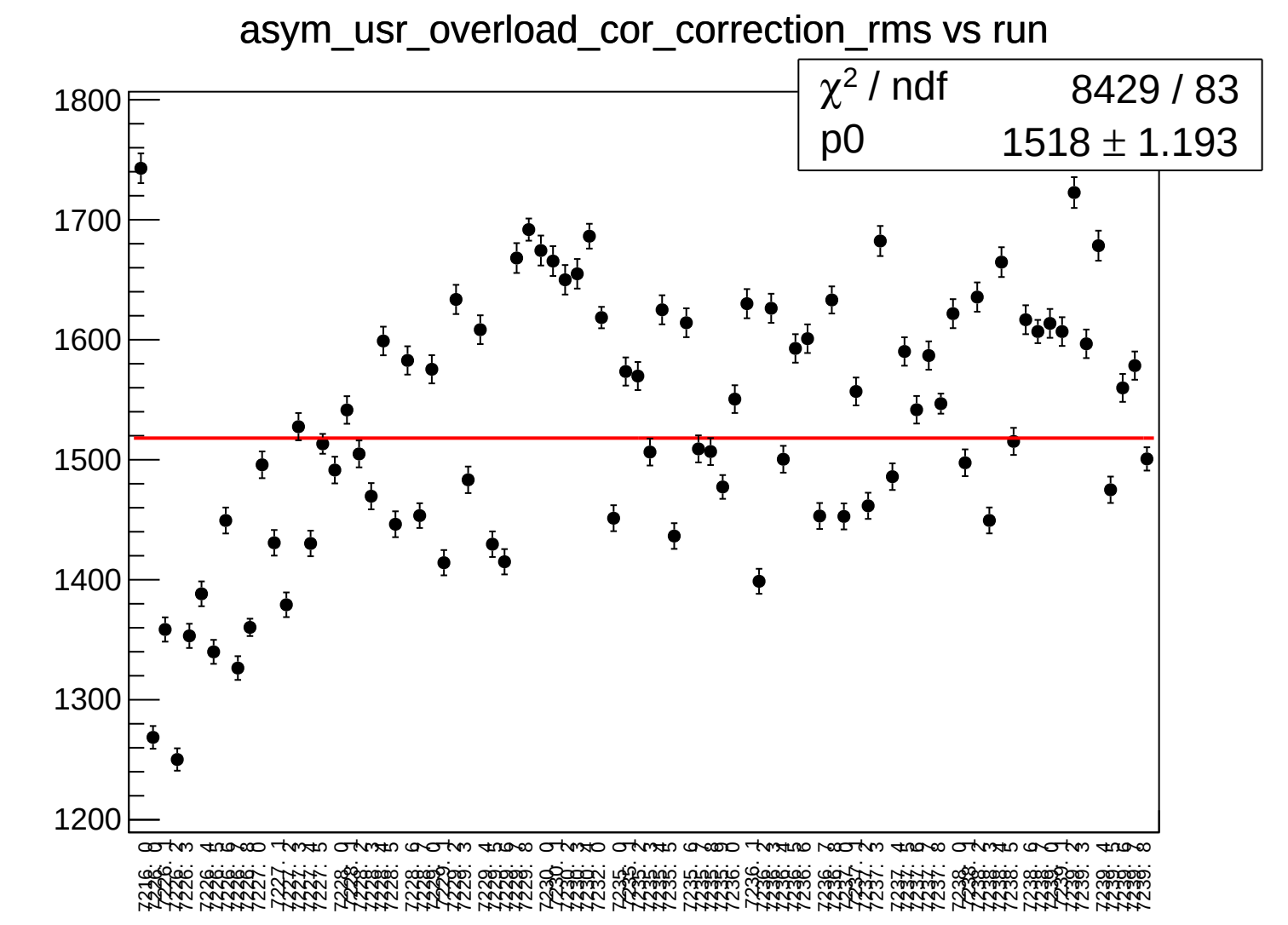

overload_cor_asym_usr_mean vs run
χ² / ndf 89.11 / 83
p0 −3955 ± 1203
pull
Entries 84
Mean 798.1
Std Dev 0

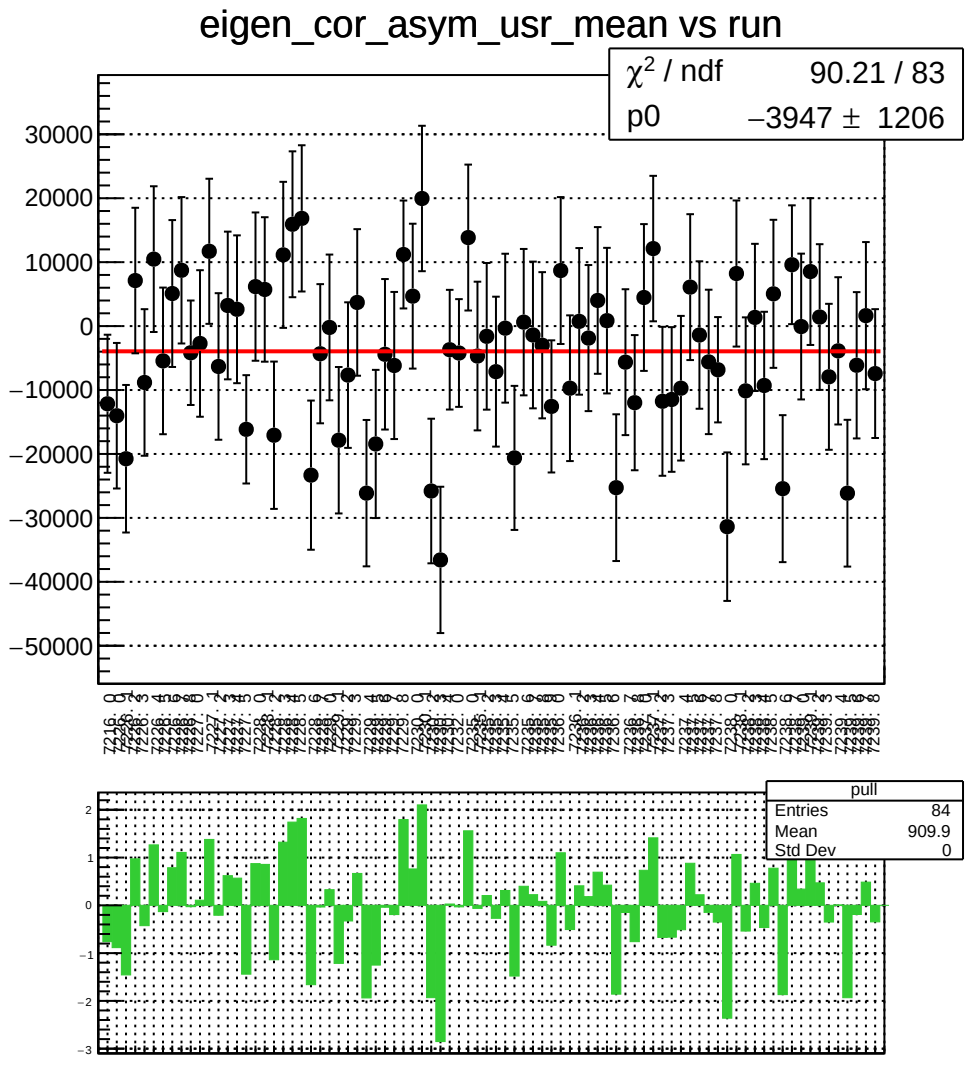

pull1D
Entries 84
Mean −0.001894
Std Dev 1.03

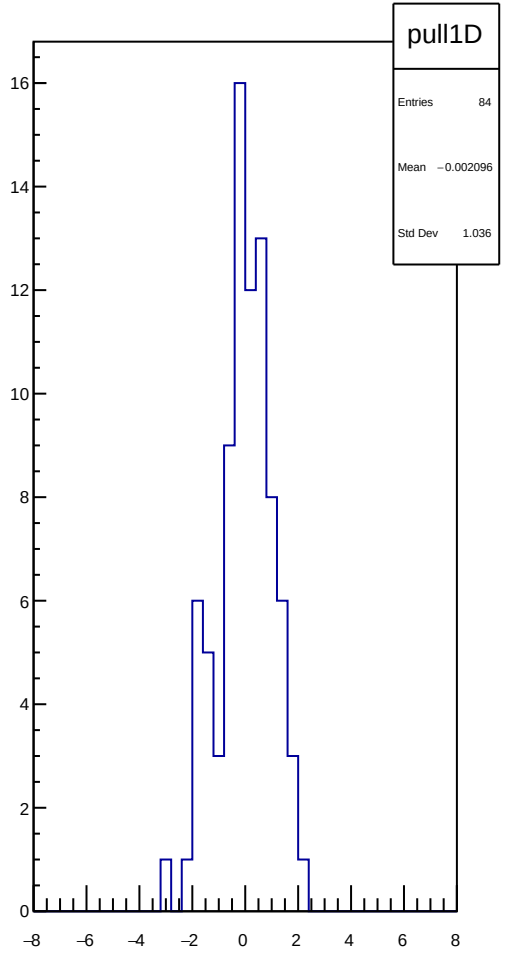

overload_cor_asym_usr_rms vs run
χ² / ndf 108.8 / 83
p0 1085 ± 0.8505
1120
1110
1100
1090
1080
1070
1060

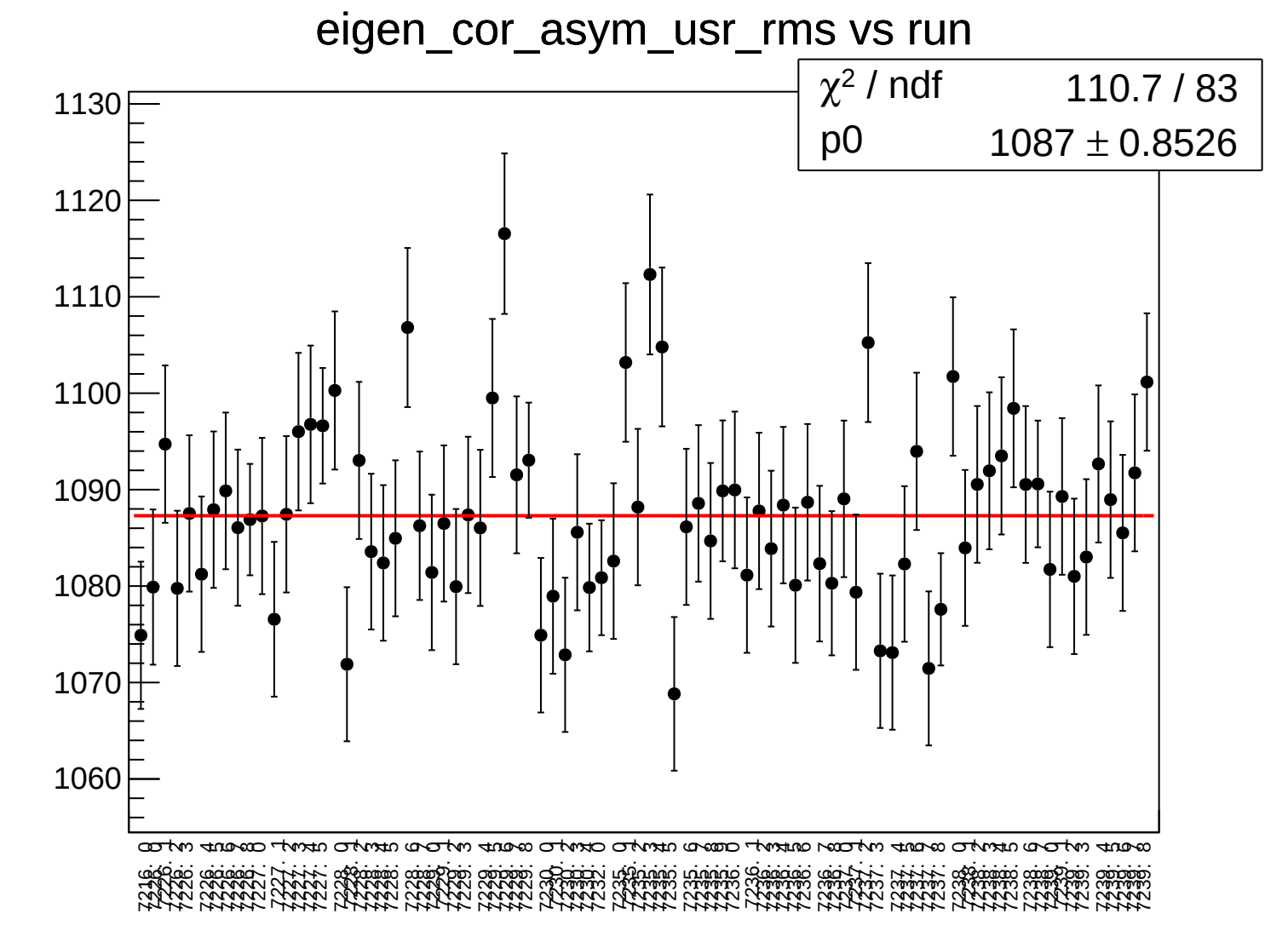

asym_usr_overload_cor_correction_mean vs run
χ² / ndf 96.12 / 83
p0 2292 ± 1688
pull
Entries 84
Mean −483.2
Std Dev 0

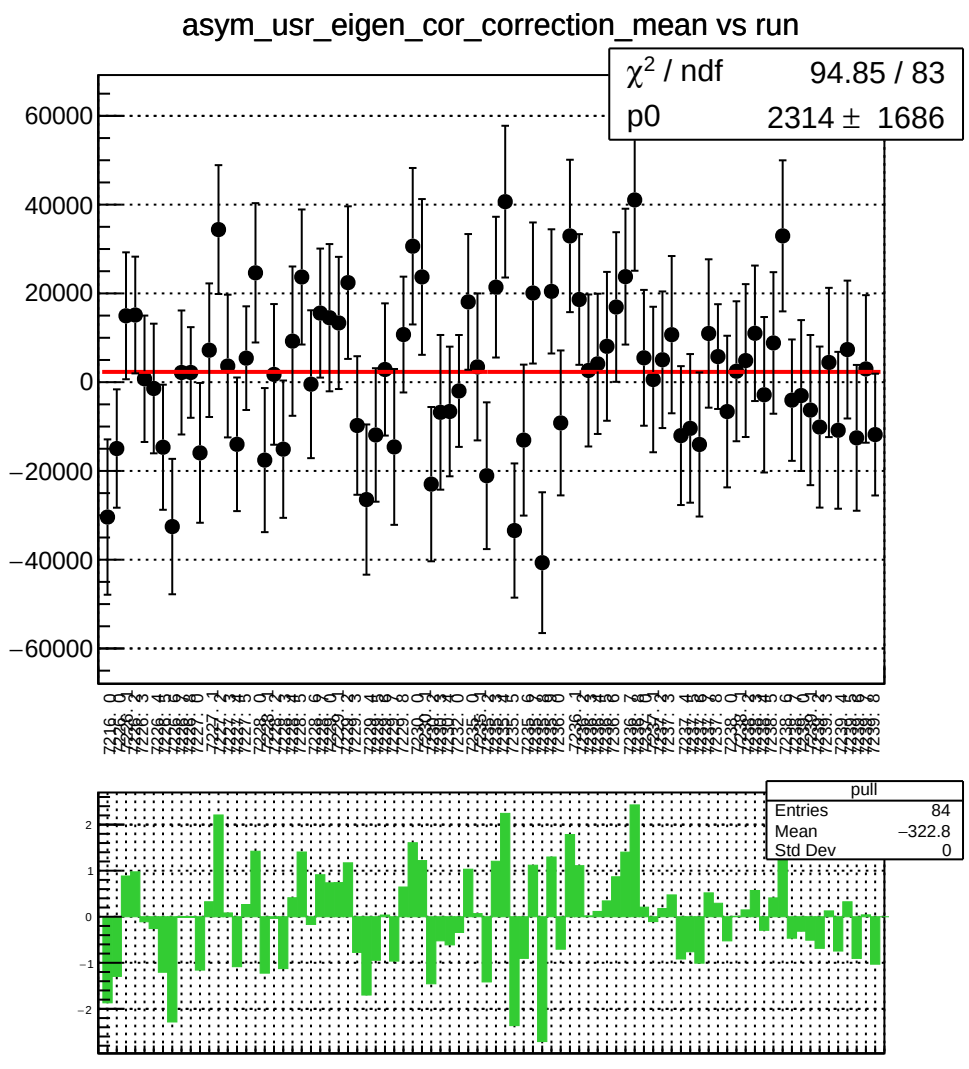

pull1D
Entries 84
Mean −0.00324
Std Dev 1.07

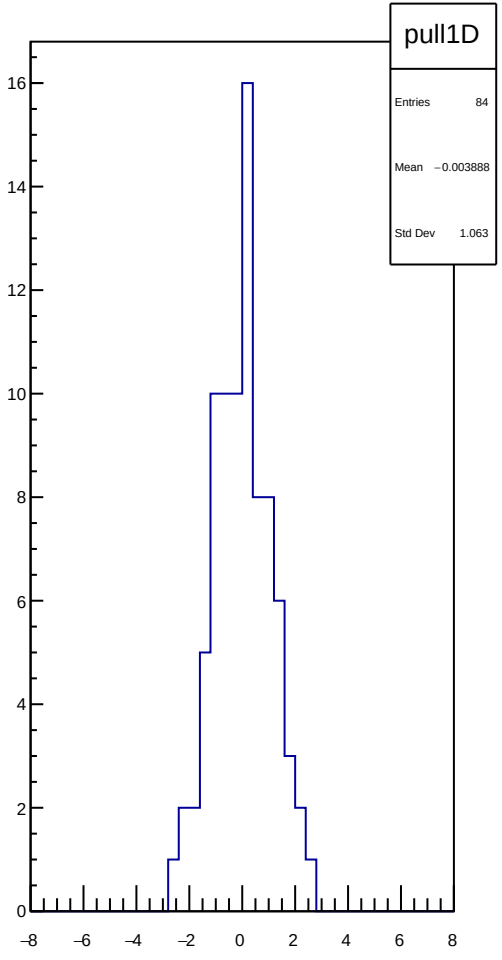

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 8429 / 83
p0 1518 ± 1.193
1800
1700
1600
1500
1400
1300
1200

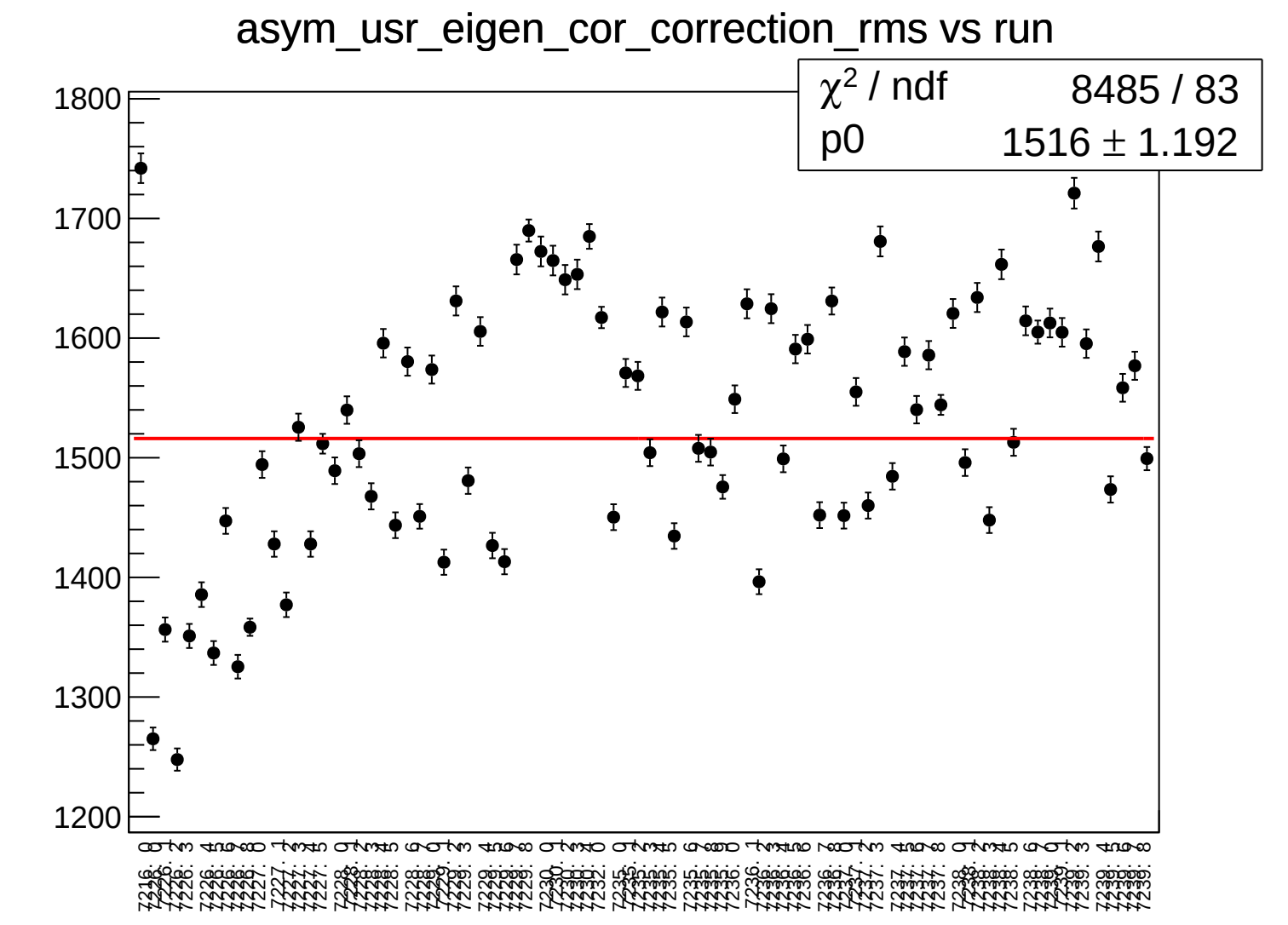

eigen_cor_asym_usr_mean vs run
χ² / ndf 90.21 / 83
p0 −3947 ± 1206
pull
Entries 84
Mean 909.9
Std Dev 0

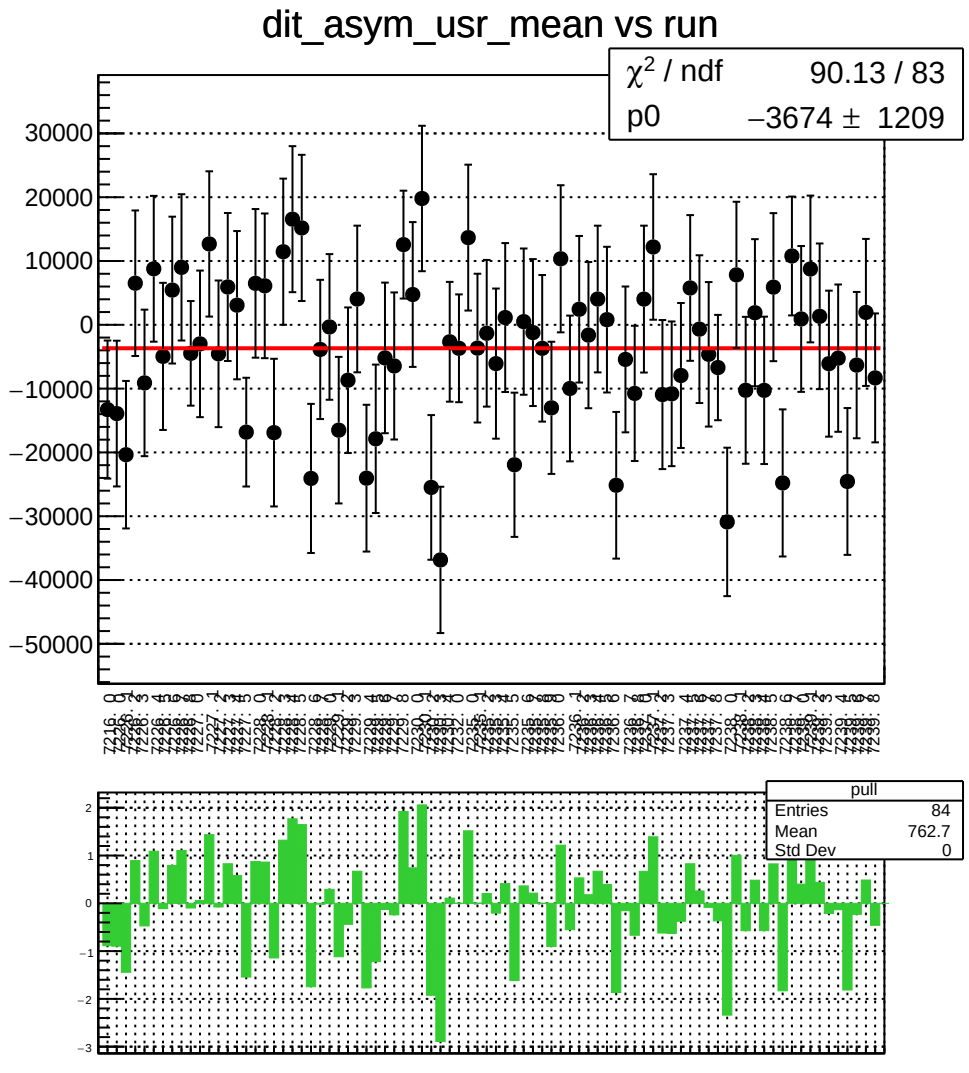

pull1D
Entries 84
Mean −0.002096
Std Dev 1.036

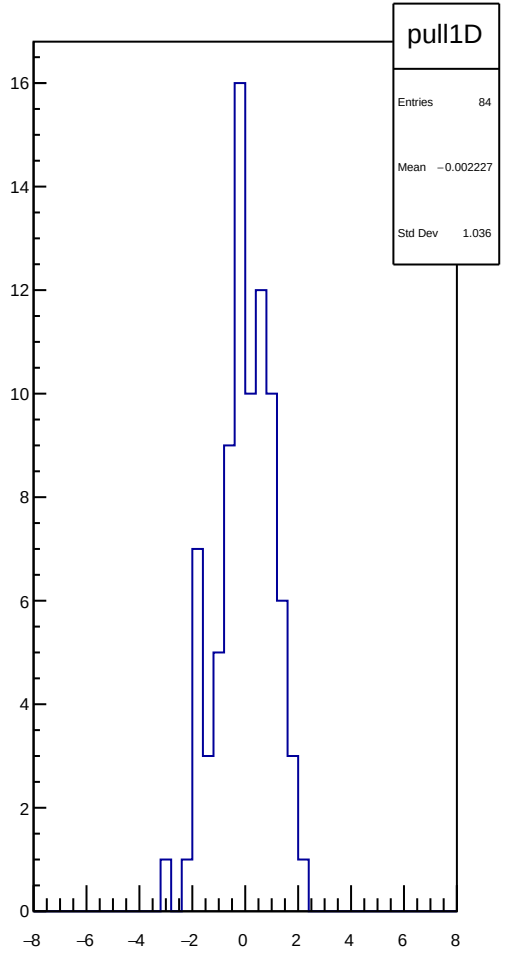

eigen_cor_asym_usr_rms vs run
χ² / ndf 110.7 / 83
p0 1087 ± 0.8526
1130
1120
1110
1100
1090
1080
1070
1060

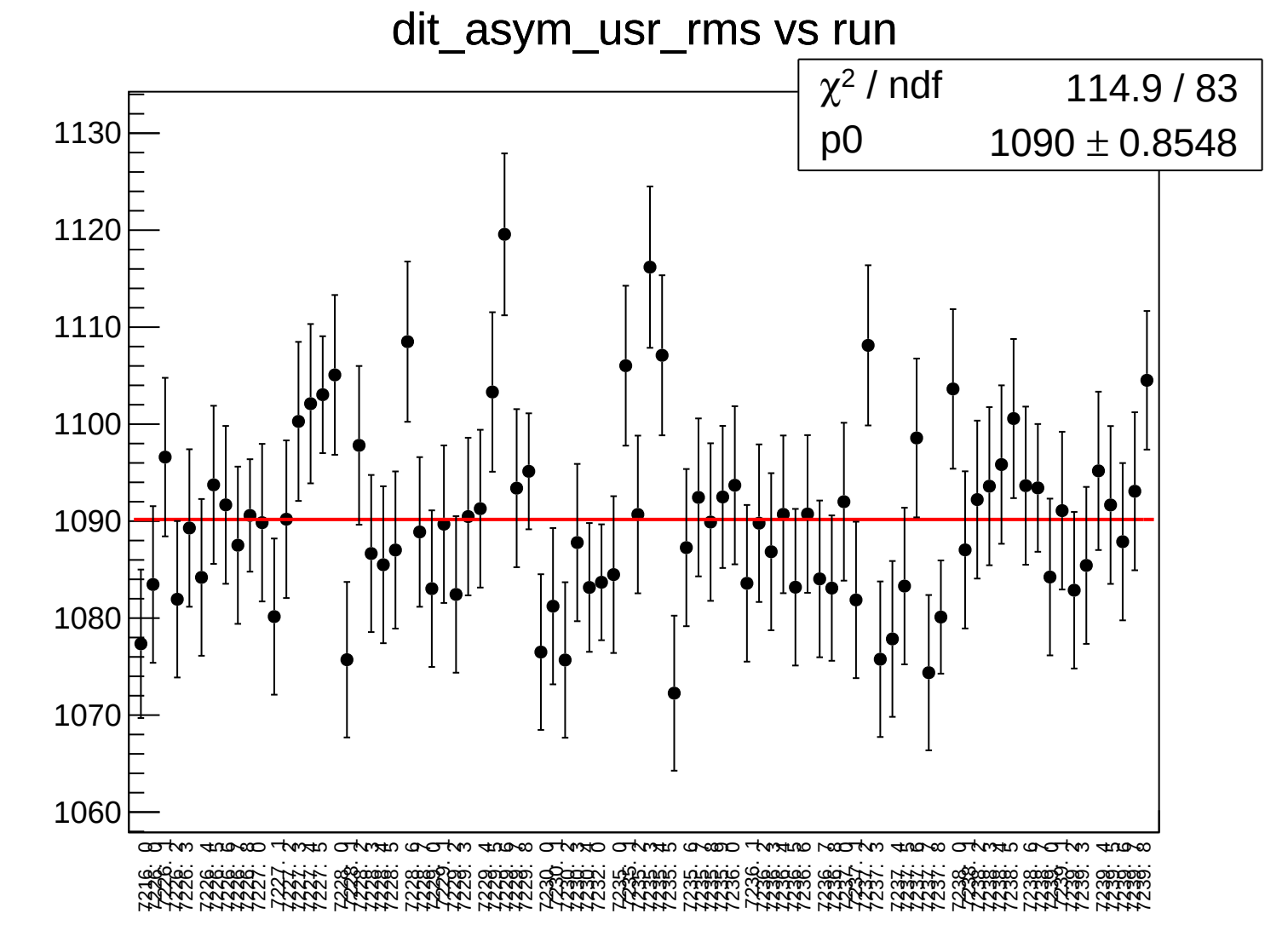

asym_usr_eigen_cor_correction_mean vs run
χ² / ndf 94.85 / 83
p0 2314 ± 1686
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −322.8
Std Dev 0
2
1
0
−1
−2

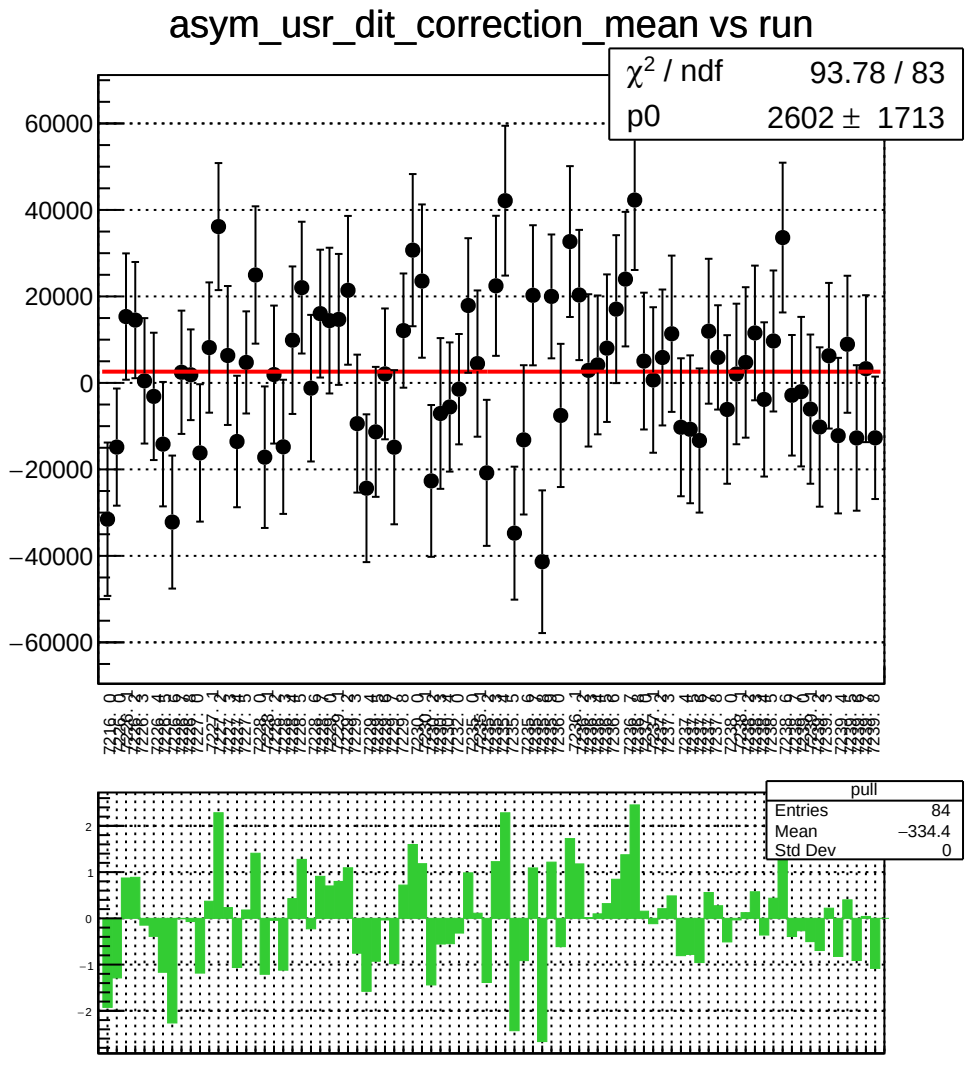

pull1D
Entries 84
Mean −0.003888
Std Dev 1.063
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

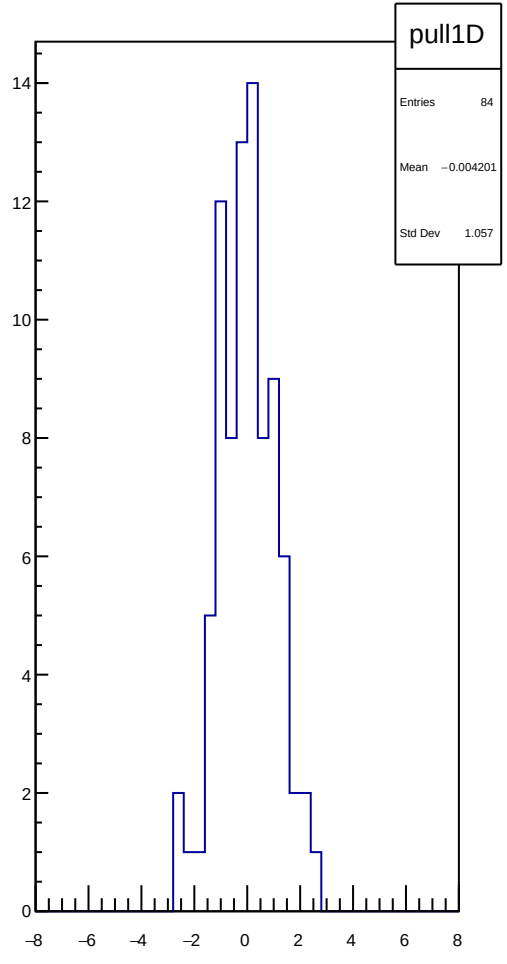

asym_usr_eigen_cor_correction_rms vs run
χ^2 / ndf 8485 / 83
p0 1516 ± 1.192
1800
1700
1600
1500
1400
1300
1200

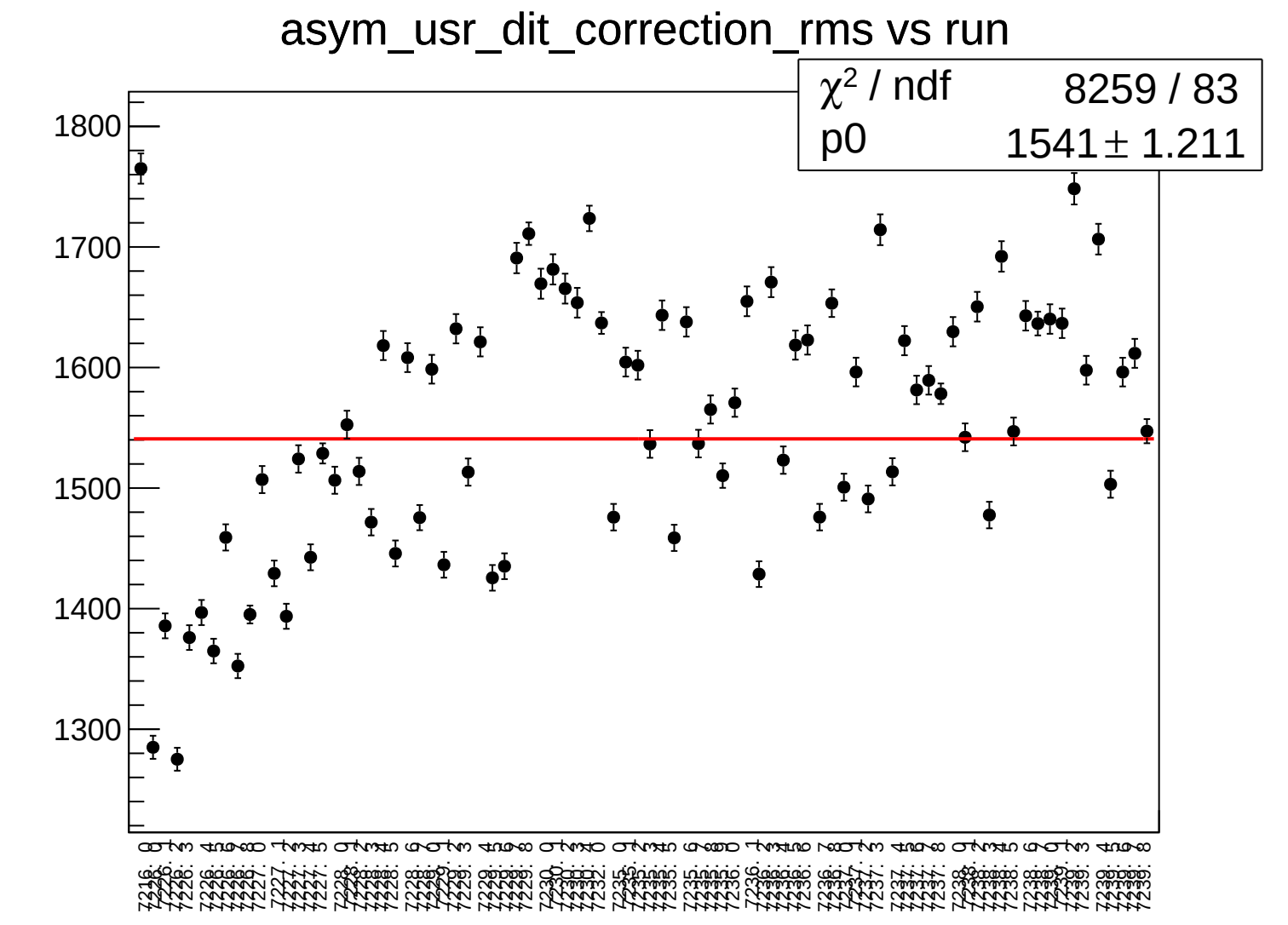

dit_asym_usr_mean vs run
χ² / ndf 90.13 / 83
p0 −3674 ± 1209
pull
Entries 84
Mean 762.7
Std Dev 0

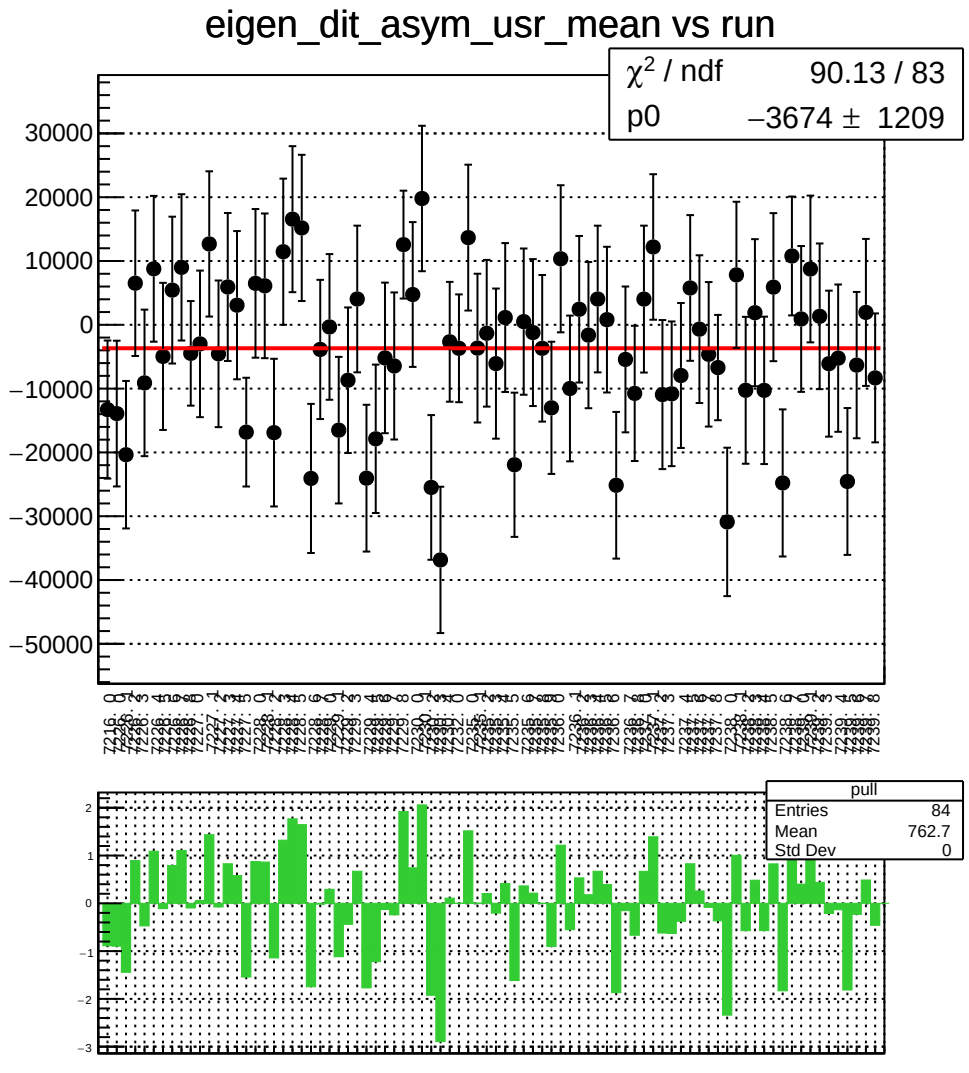

pull1D
Entries 84
Mean −0.002227
Std Dev 1.036

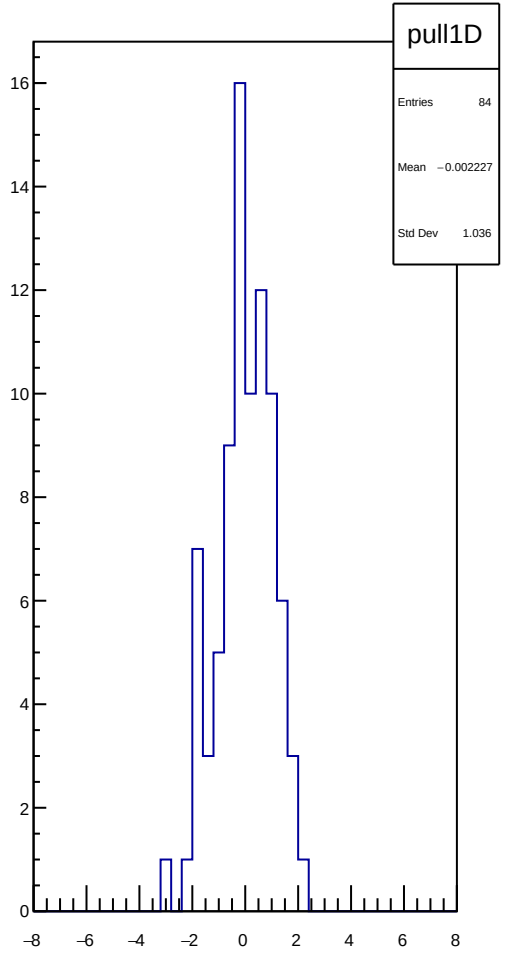

dit_asym_usr_rms vs run
χ² / ndf 114.9 / 83
p0 1090 ± 0.8548
1130
1120
1110
1100
1090
1080
1070
1060

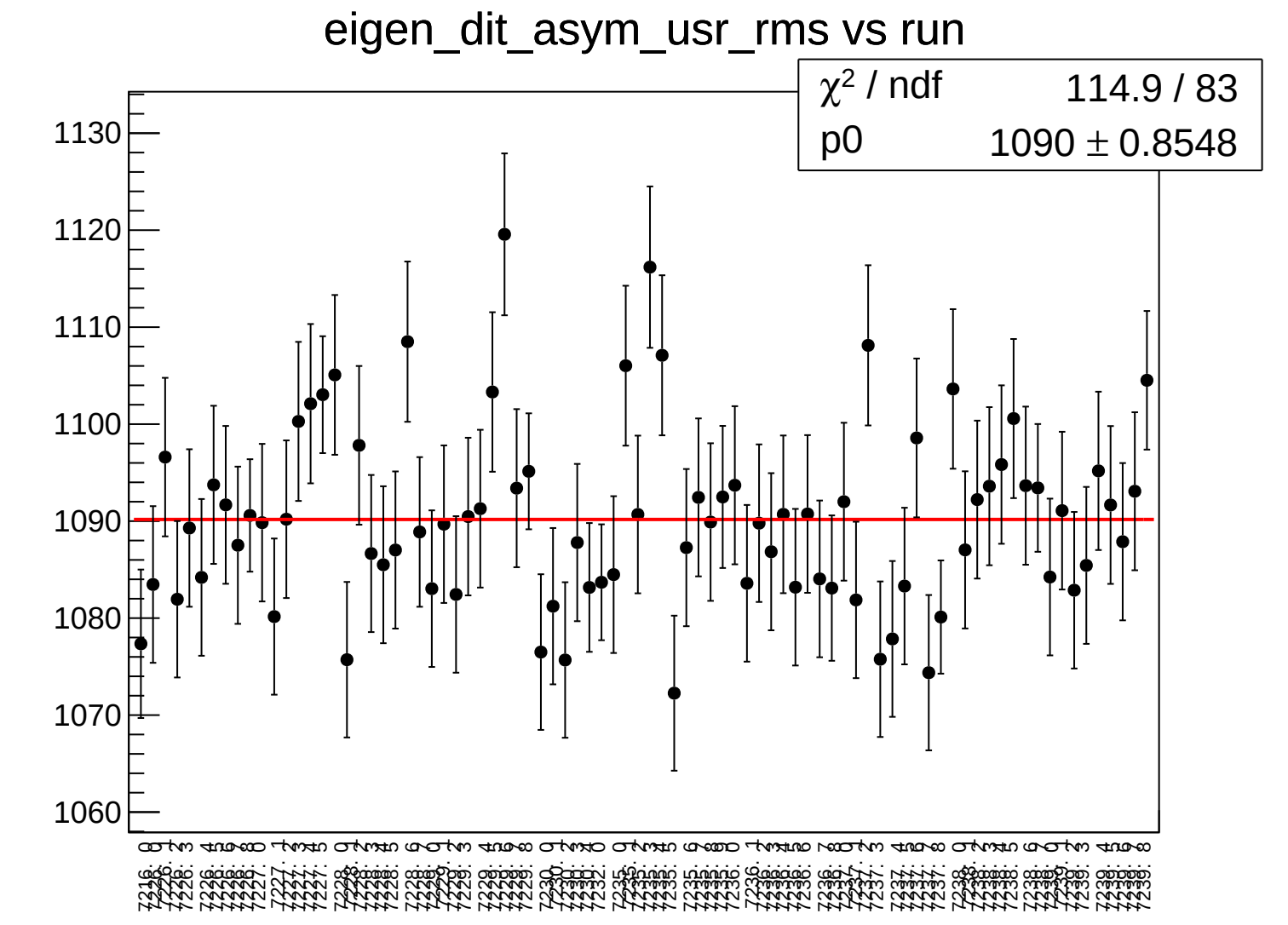

asym_usr_dit_correction_mean vs run
χ² / ndf 93.78 / 83
p0 2602 ± 1713
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −334.4
Std Dev 0
2
1
0
−1
−2

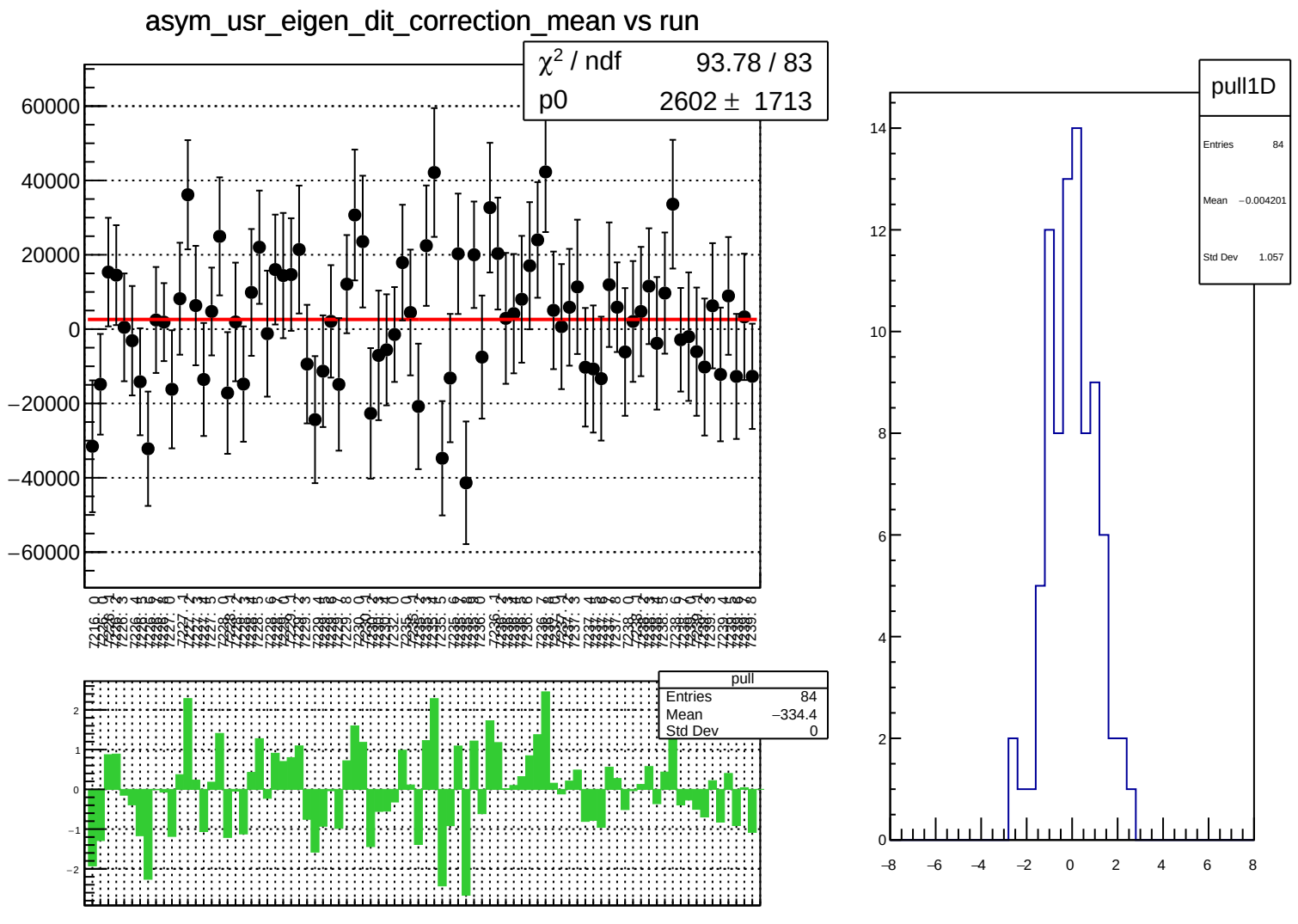

pull1D
Entries 84
Mean −0.004201
Std Dev 1.057
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

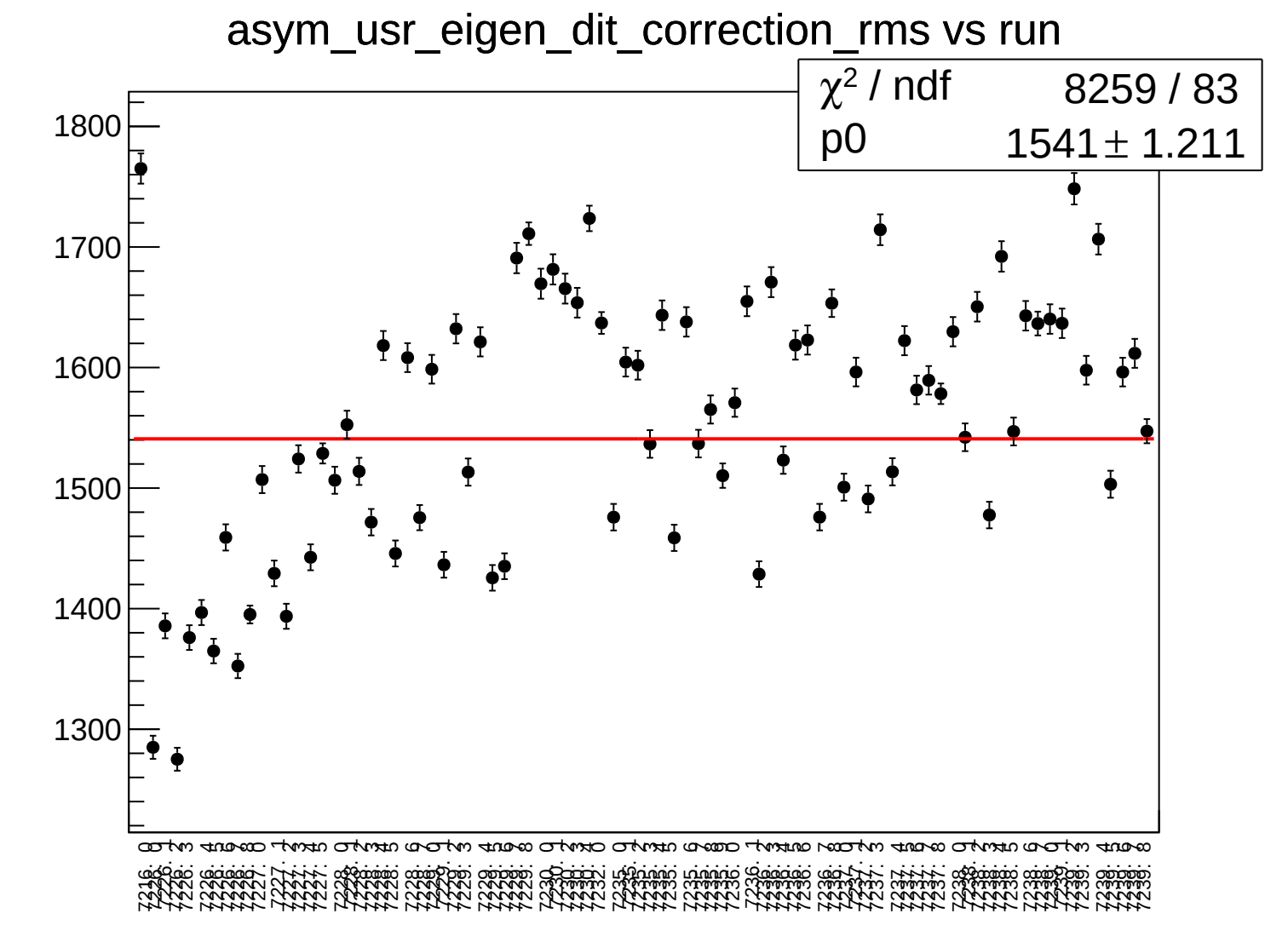

asym_usr_dit_correction_rms vs run
χ² / ndf 8259 / 83
p0 1541 ± 1.211
1800
1700
1600
1500
1400
1300

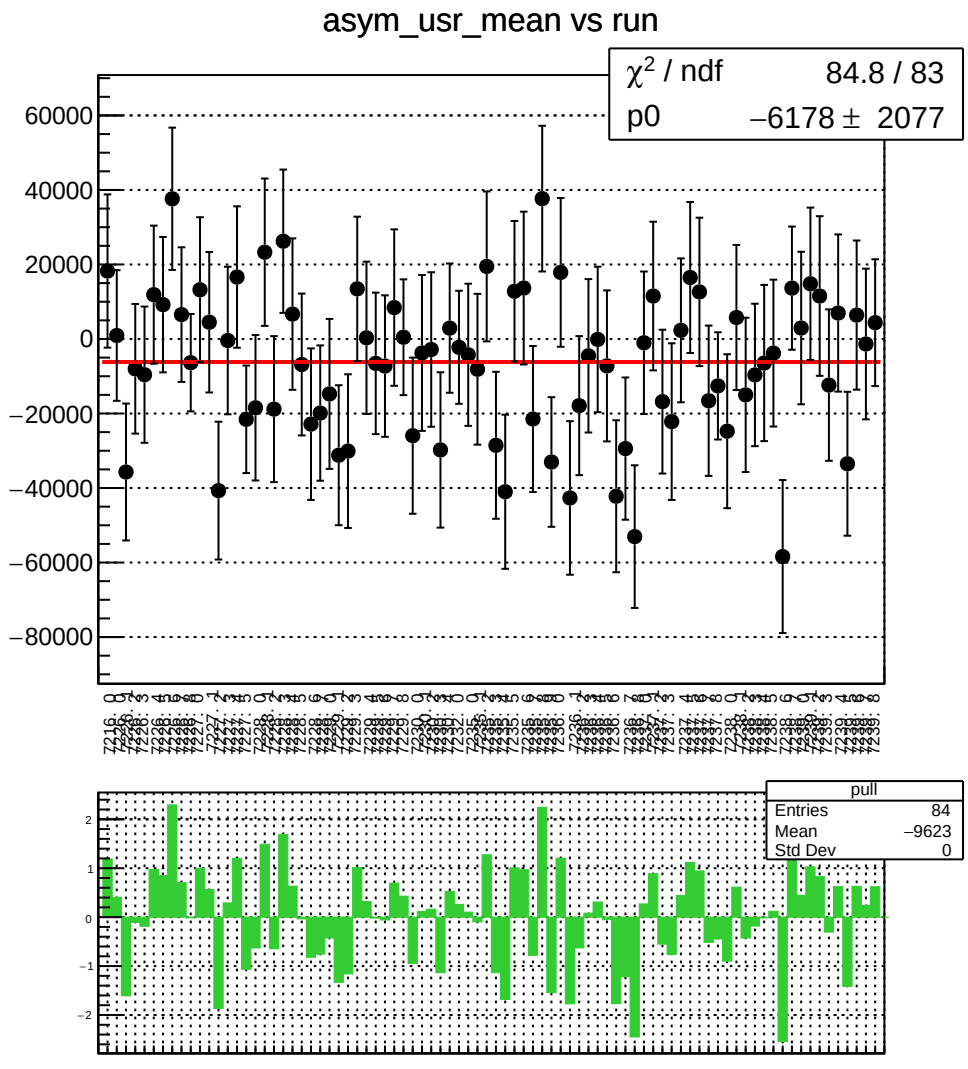

eigen_dit_asym_usr_mean vs run
χ² / ndf 90.13 / 83
p0 −3674 ± 1209
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 84
Mean 762.7
Std Dev 0
2
1
0
−1
−2
−3

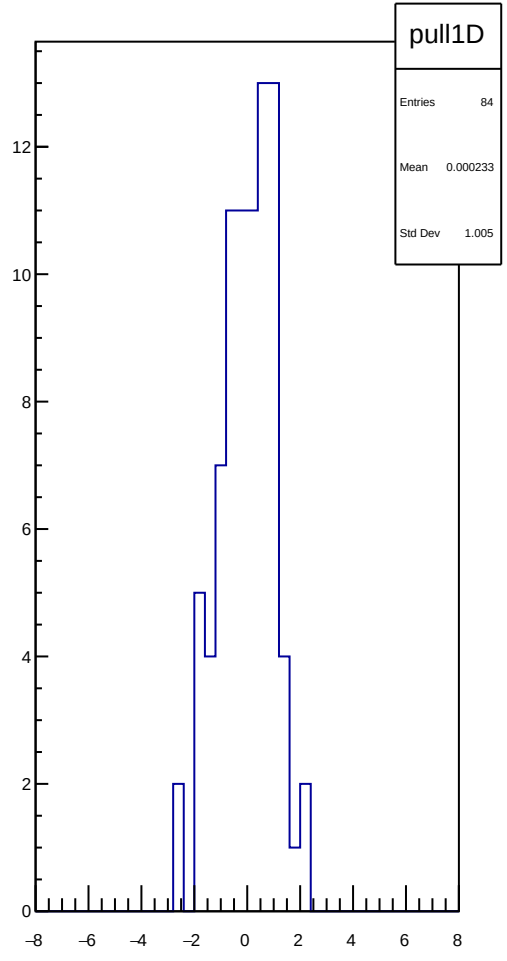

pull1D
Entries 84
Mean −0.002227
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

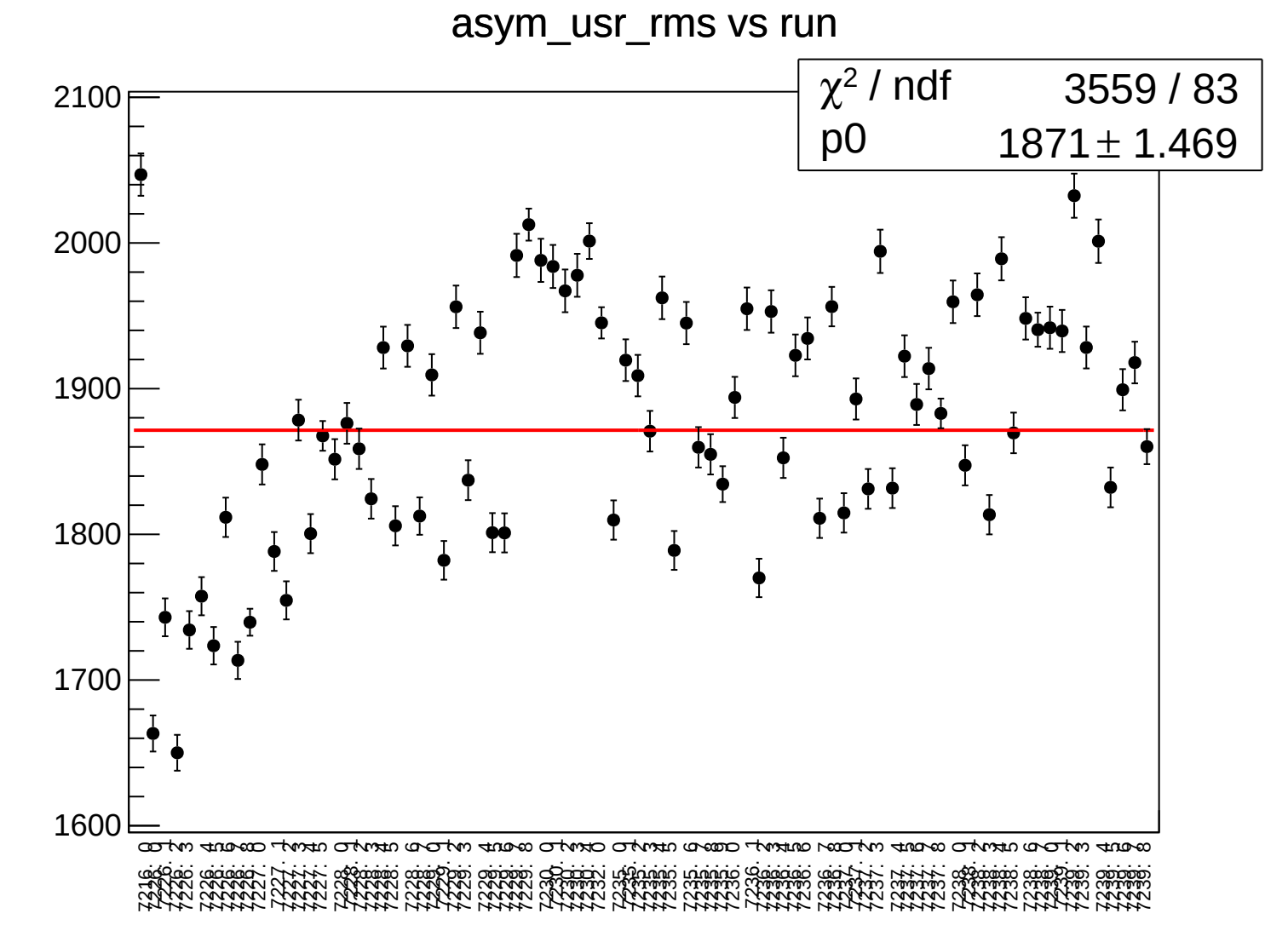

eigen_dit_asym_usr_rms vs run
χ² / ndf 114.9 / 83
p0 1090 ± 0.8548
1130
1120
1110
1100
1090
1080
1070
1060

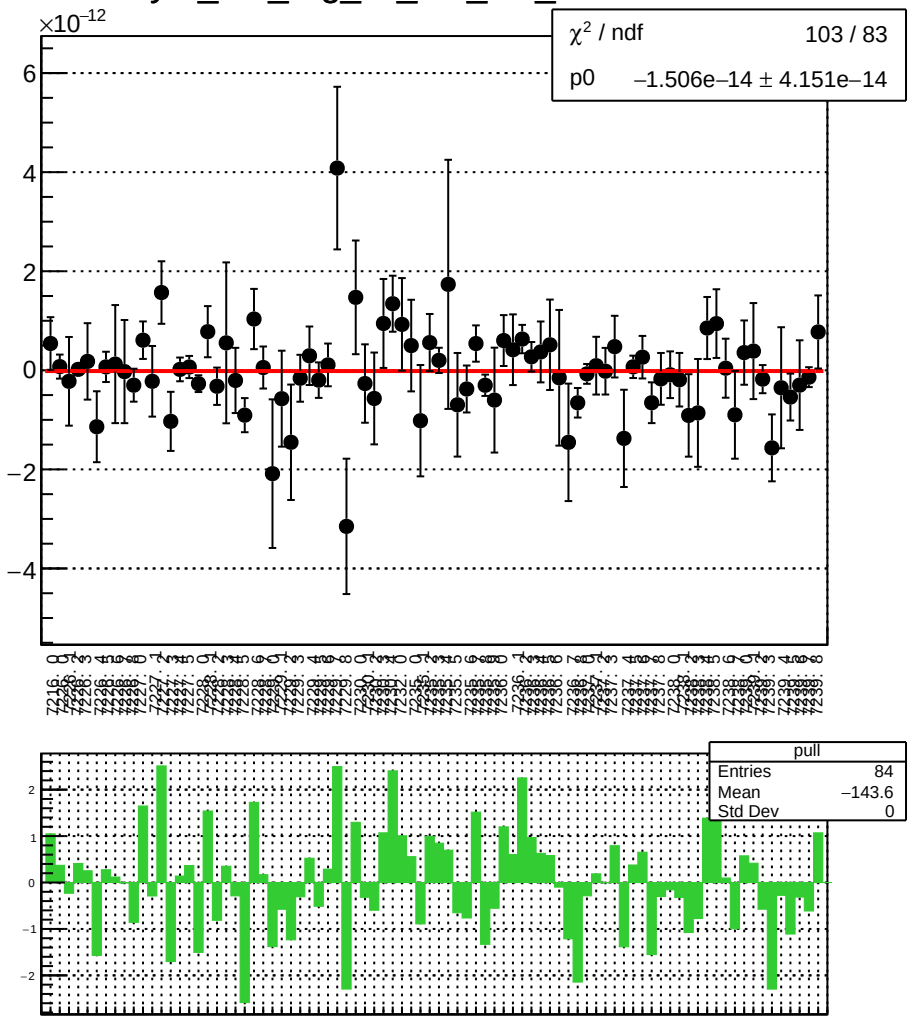

asym_usr_eigen_dit_correction_mean vs run
χ² / ndf 93.78 / 83
p0 2602 ± 1713
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −334.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.004201
Std Dev 1.057
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

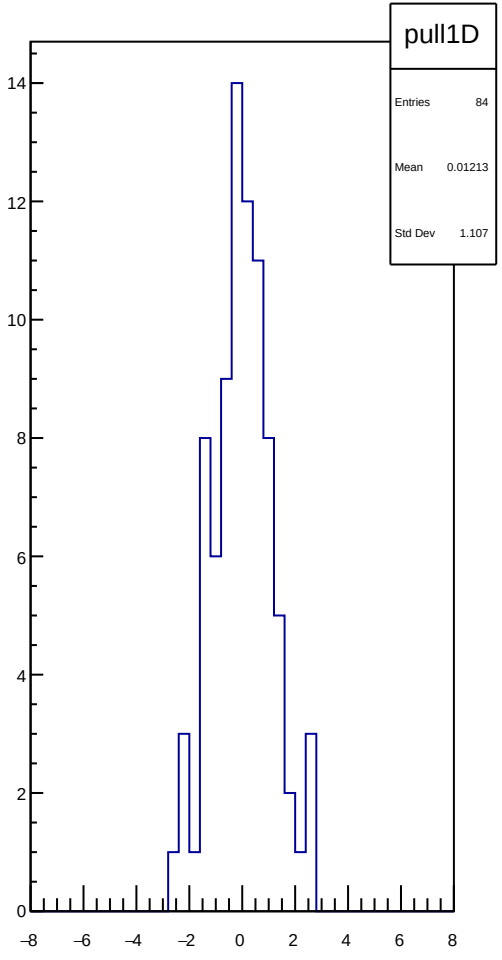

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 8259 / 83
p0 1541 ± 1.211
1800
1700
1600
1500
1400
1300

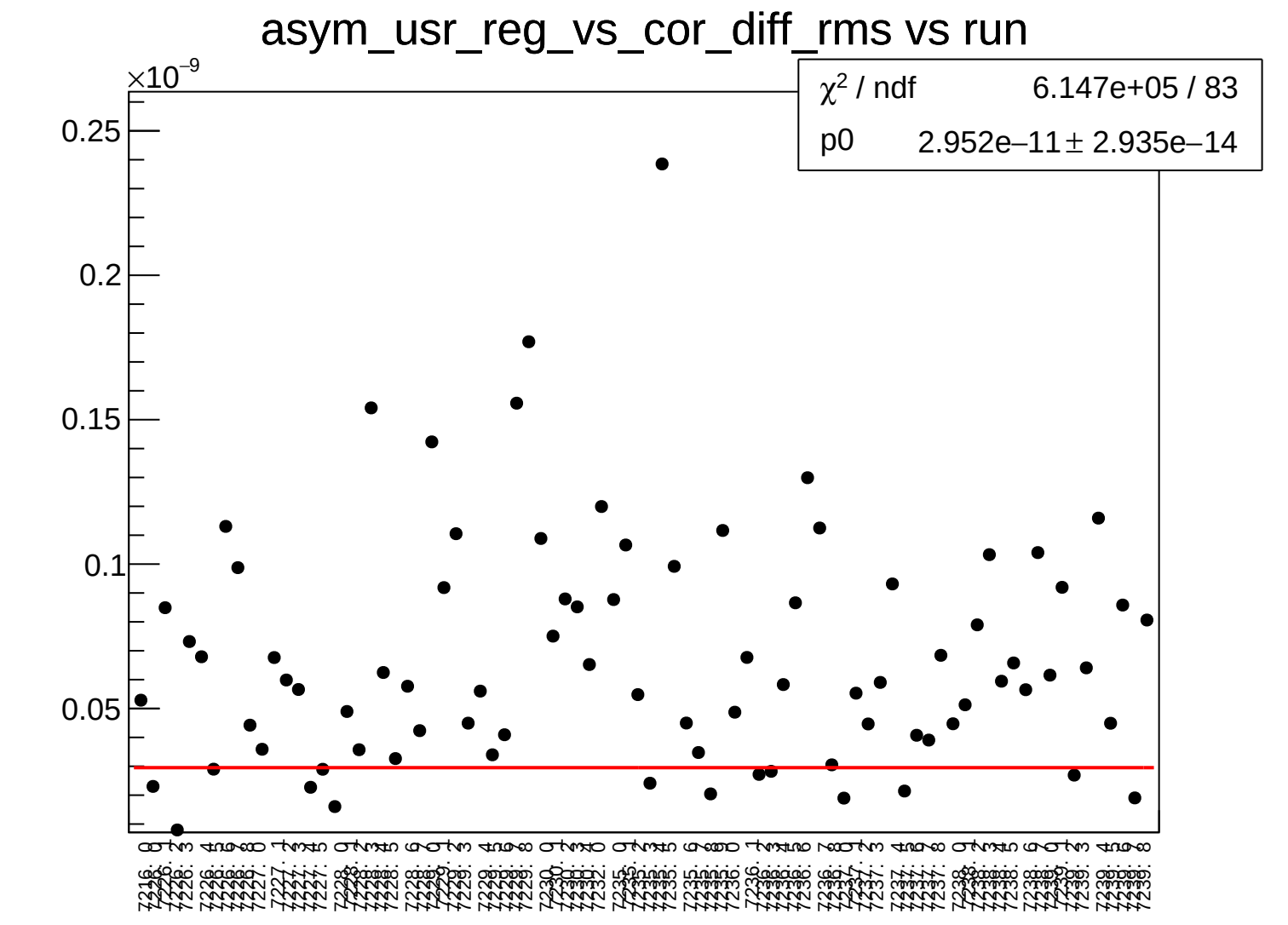

asym_usr_mean vs run
χ² / ndf 84.8 / 83
p0 −6178 ± 2077
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean −9623
Std Dev 0
2
1
0
−1
−2

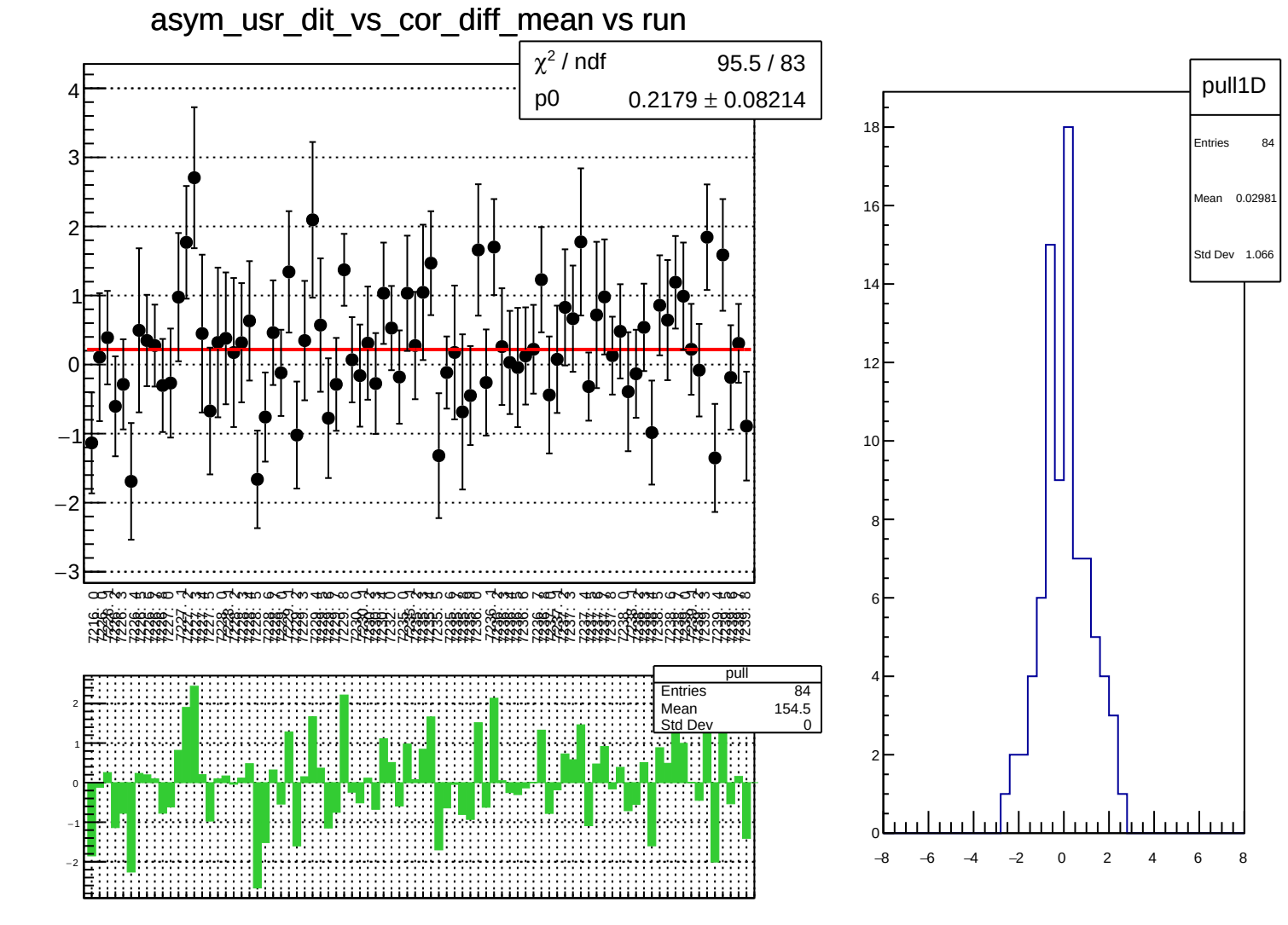

pull1D
Entries 84
Mean 0.000233
Std Dev 1.005
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

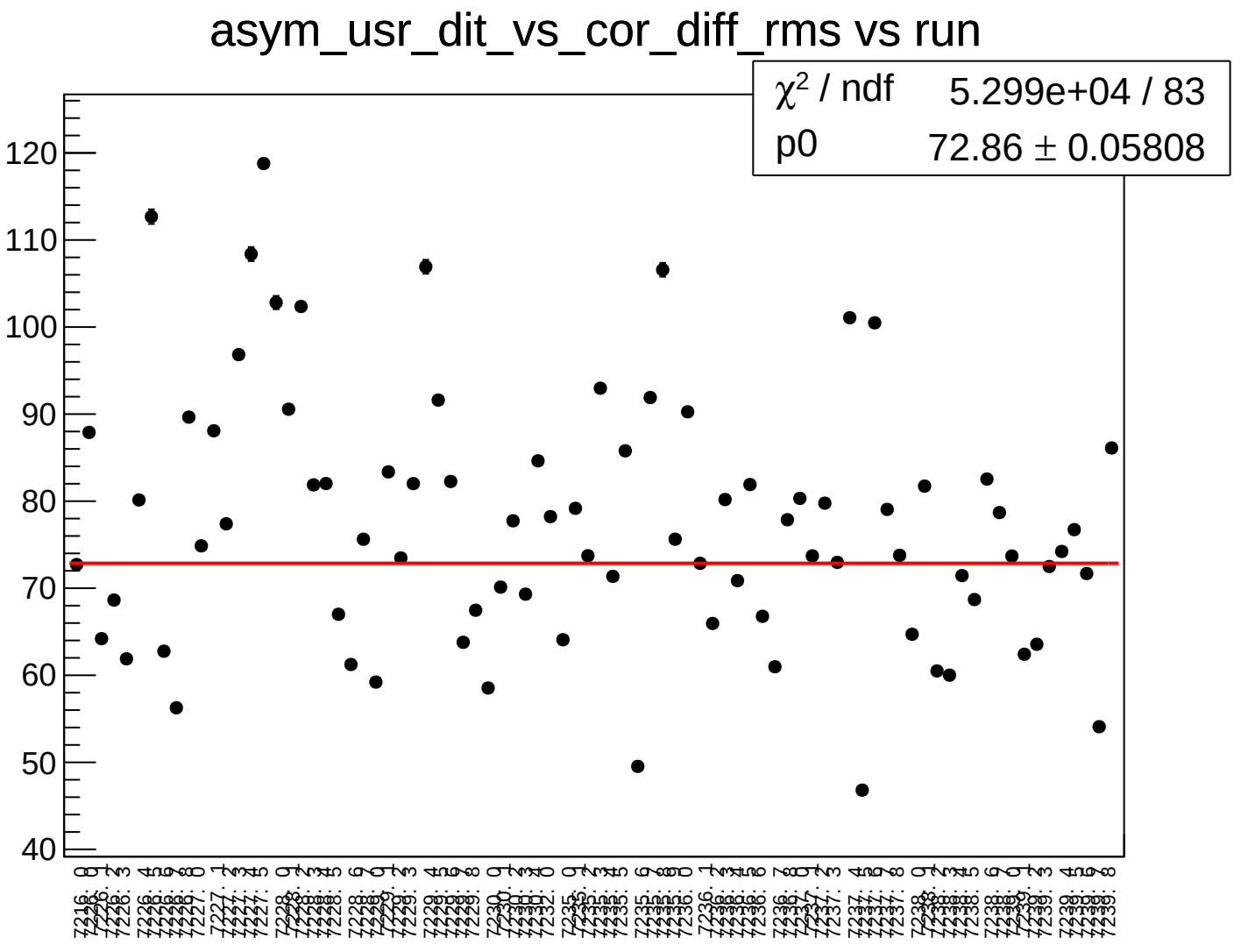

asym_usr_rms vs run
χ² / ndf 3559 / 83
p0 1871 ± 1.469
2100
2000
1900
1800
1700
1600

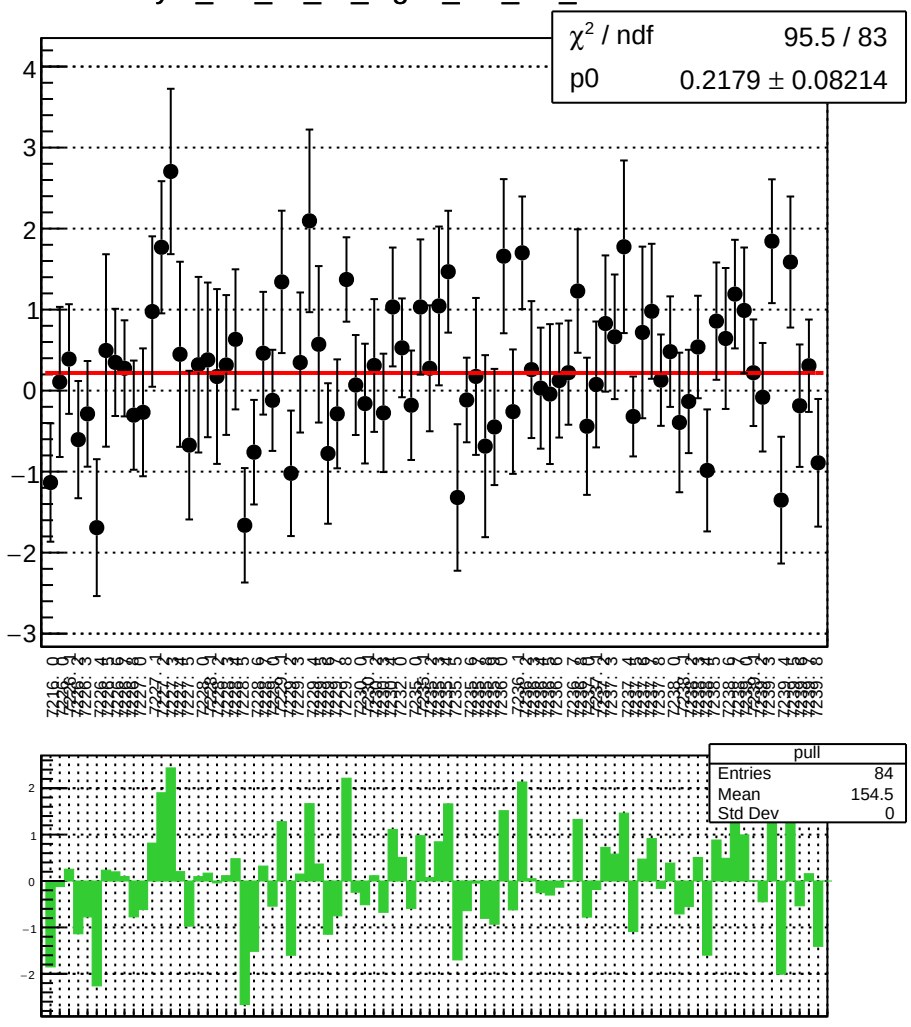

asym_usr_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 103 / 83
p0 −1.506e−14 ± 4.151e−14
pull
Entries 84
Mean −143.6
Std Dev 0

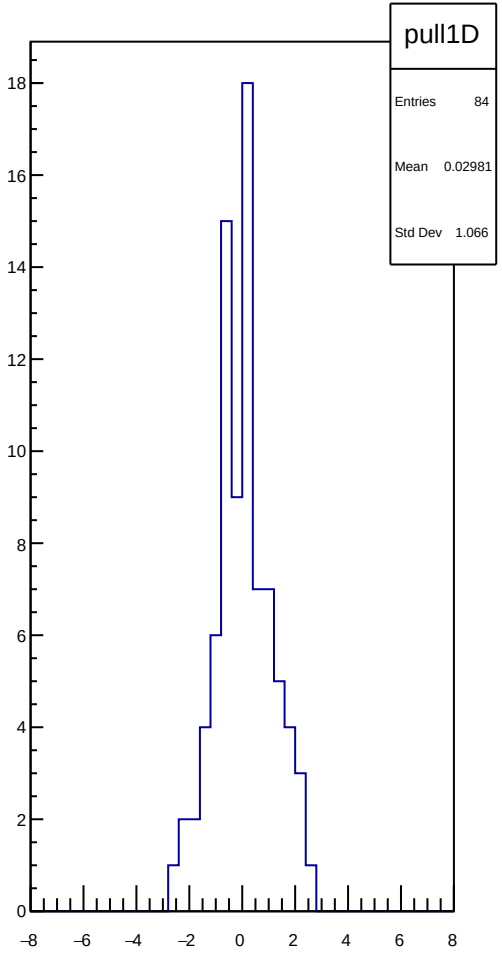

pull1D
Entries 84
Mean 0.01213
Std Dev 1.107

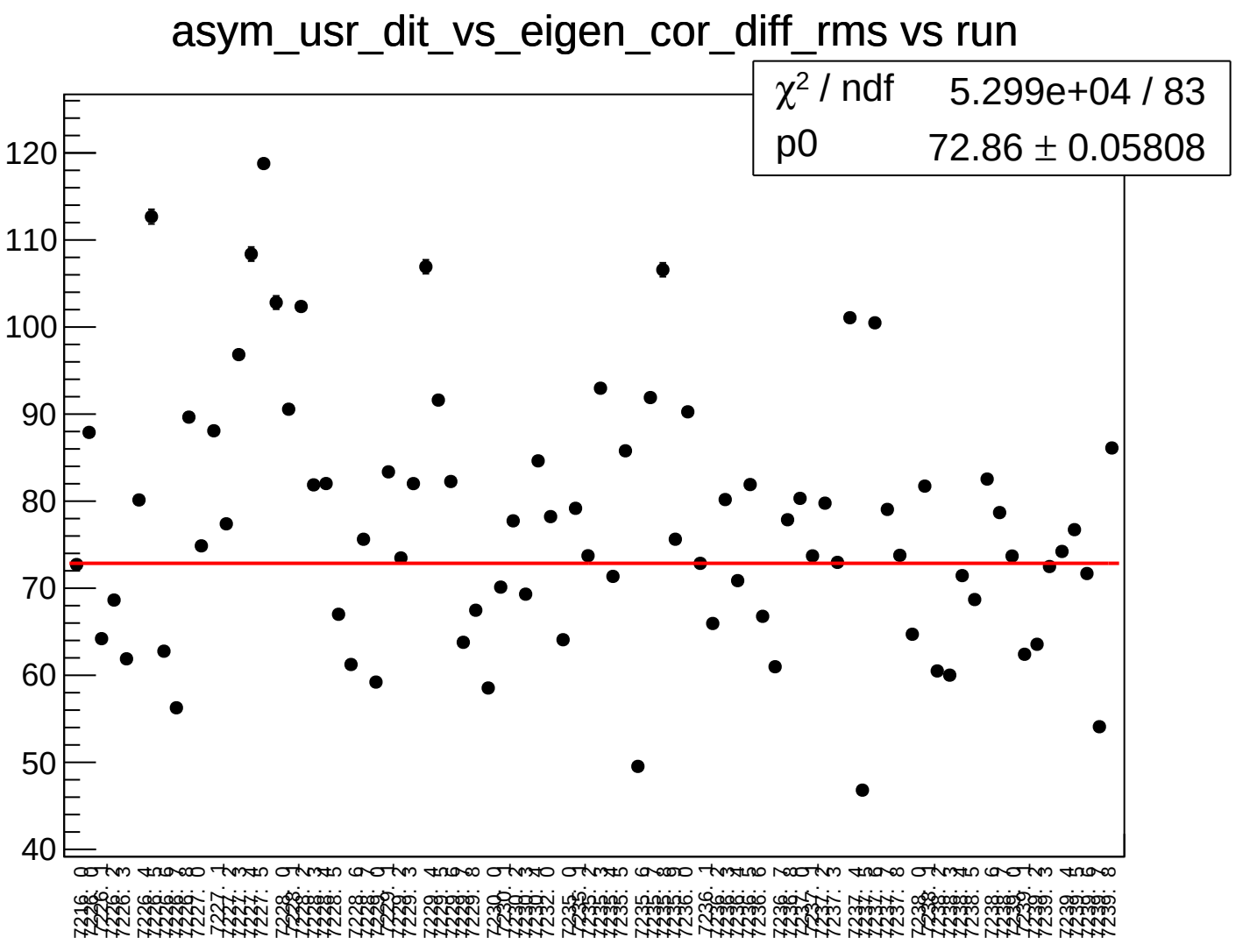

asym_usr_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.147e+05 / 83
p0 2.952e−11 ± 2.935e−14
0.25
0.2
0.15
0.1
0.05


asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 95.5 / 83
p0 0.2179 ± 0.08214
pull
Entries 84
Mean 154.5
Std Dev 0
pull1D
Entries 84
Mean 0.02981
Std Dev 1.066

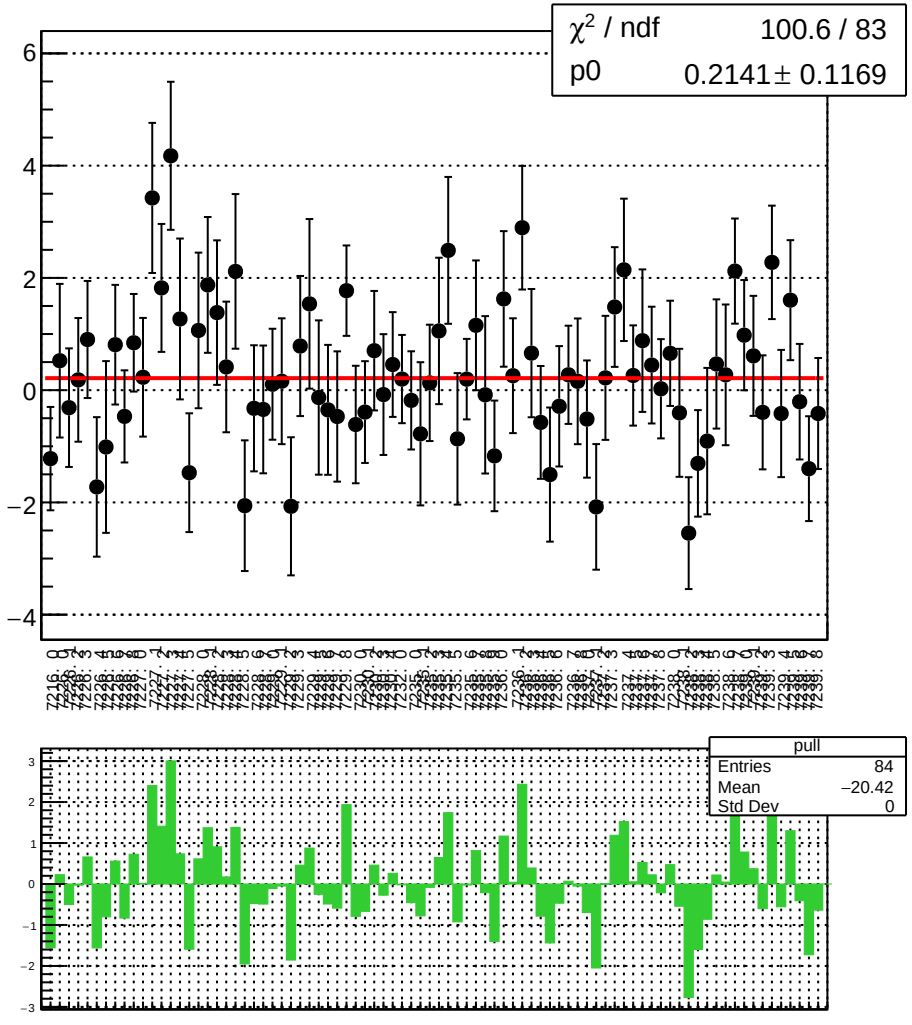

asym_usr_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.299e+04 / 83
p0 72.86 ± 0.05808
120
110
100
90
80
70
60
50
40

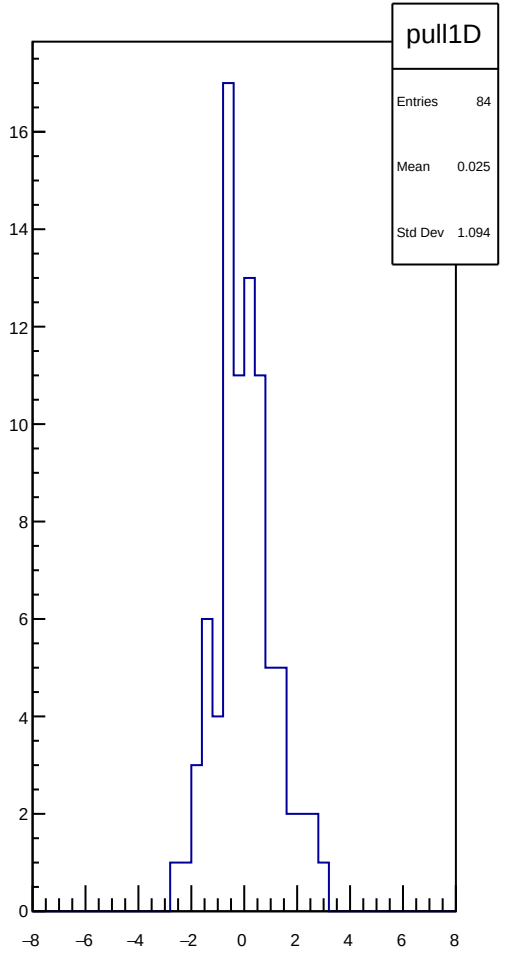

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.5 / 83
p0 0.2179 ± 0.08214
pull
Entries 84
Mean 154.5
Std Dev 0

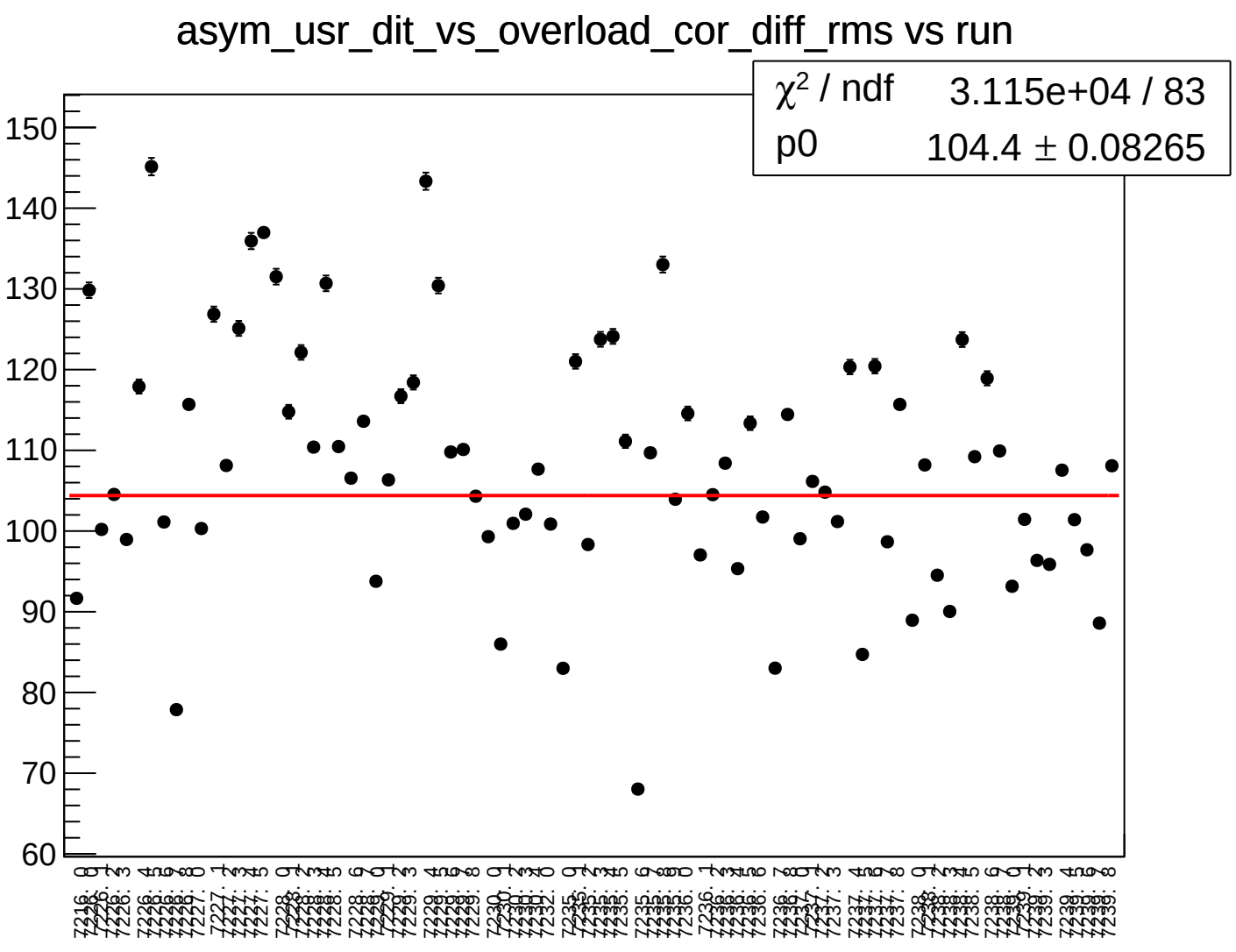

pull1D
Entries 84
Mean 0.02981
Std Dev 1.066

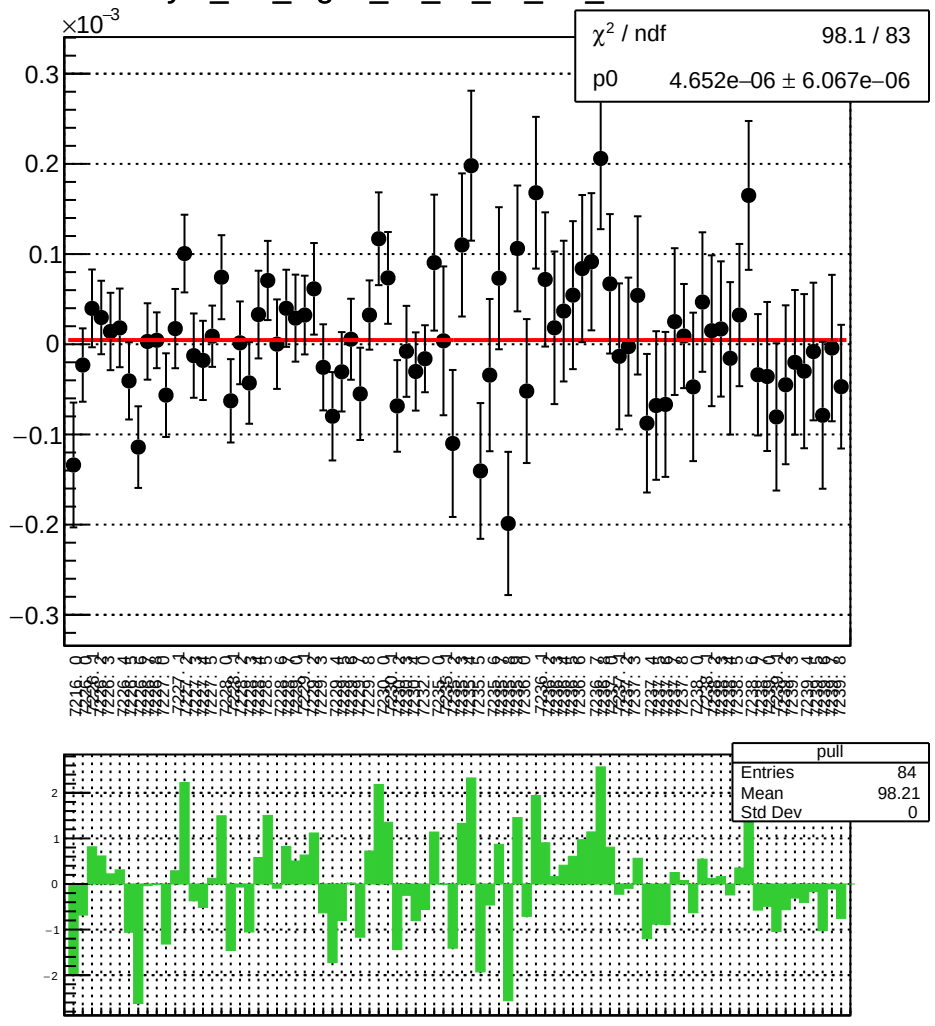

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.299e+04 / 83
p0 72.86 ± 0.05808
120
110
100
90
80
70
60
50
40

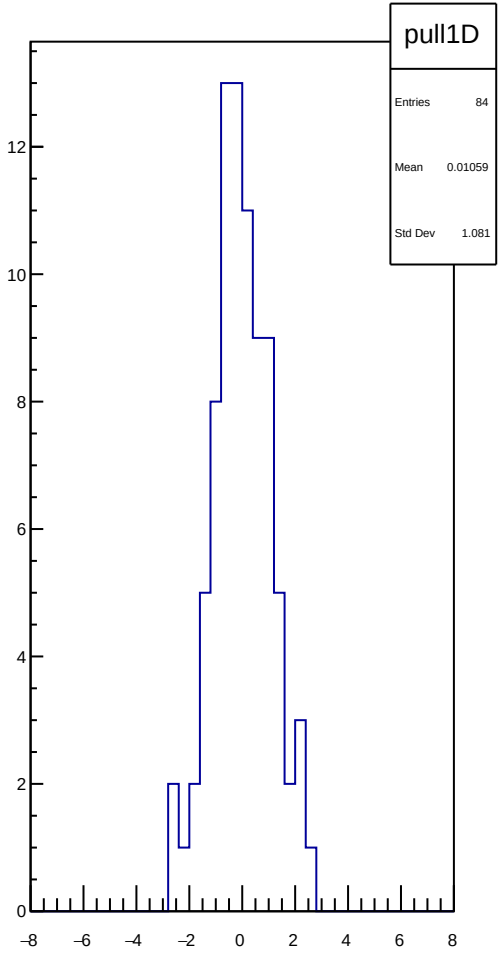
asym_usr_dit_vs_overload_cor_diff_mean vs run

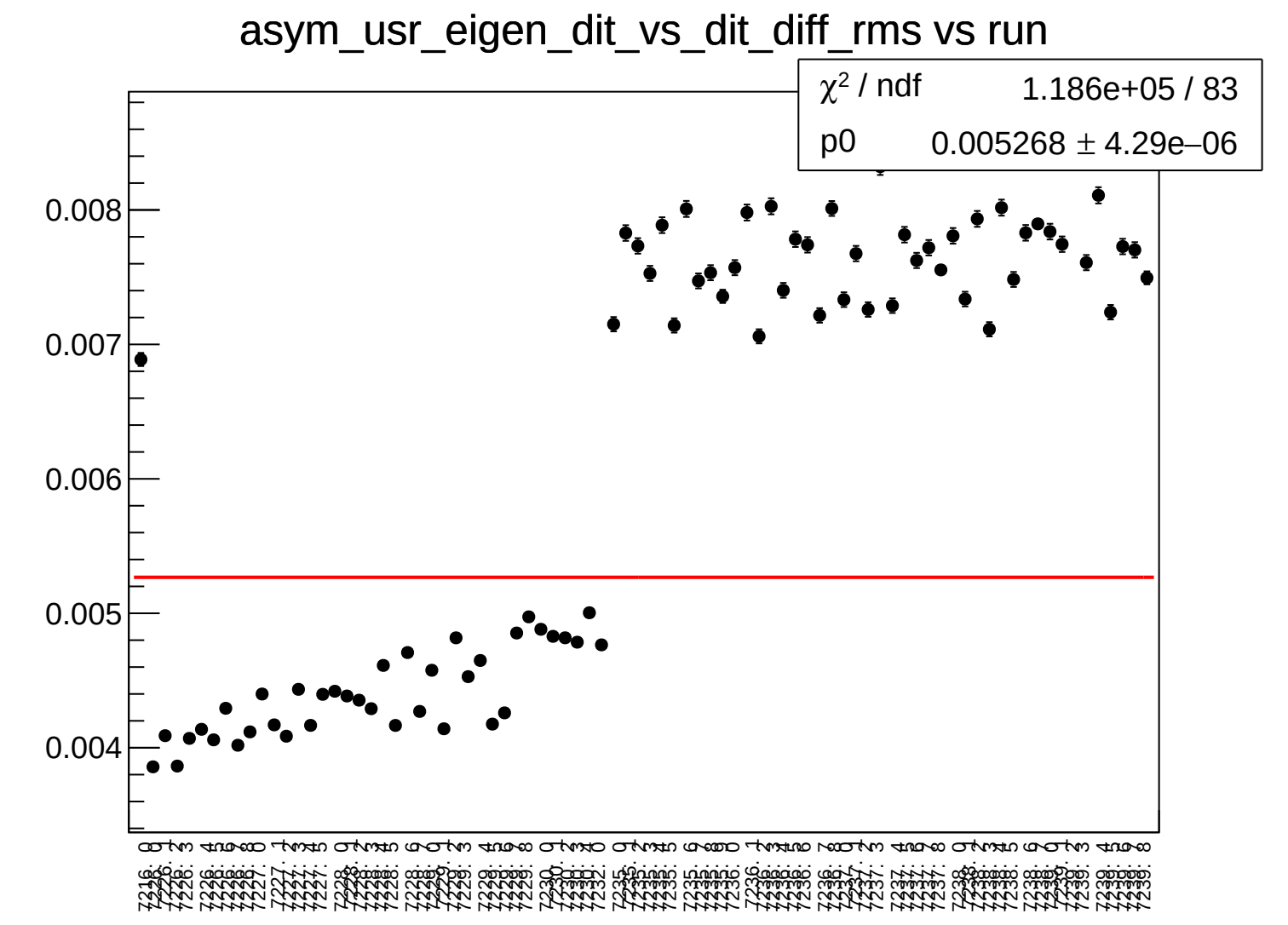


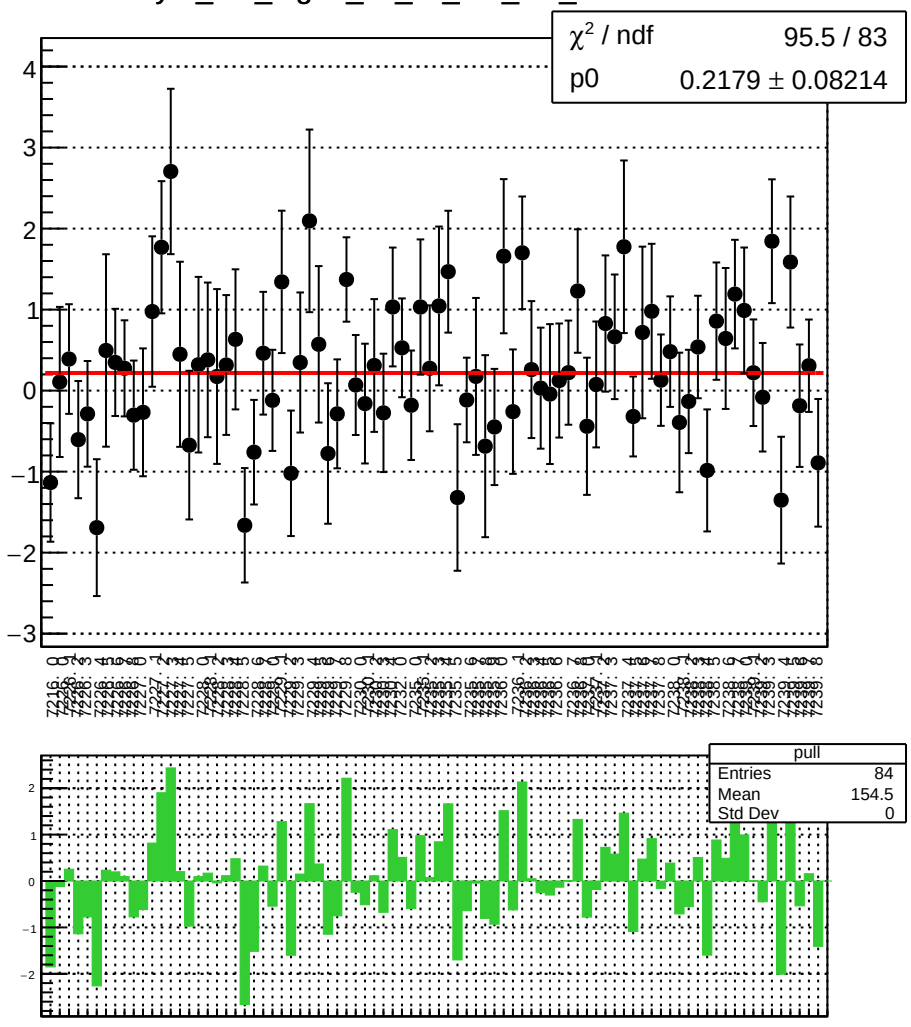


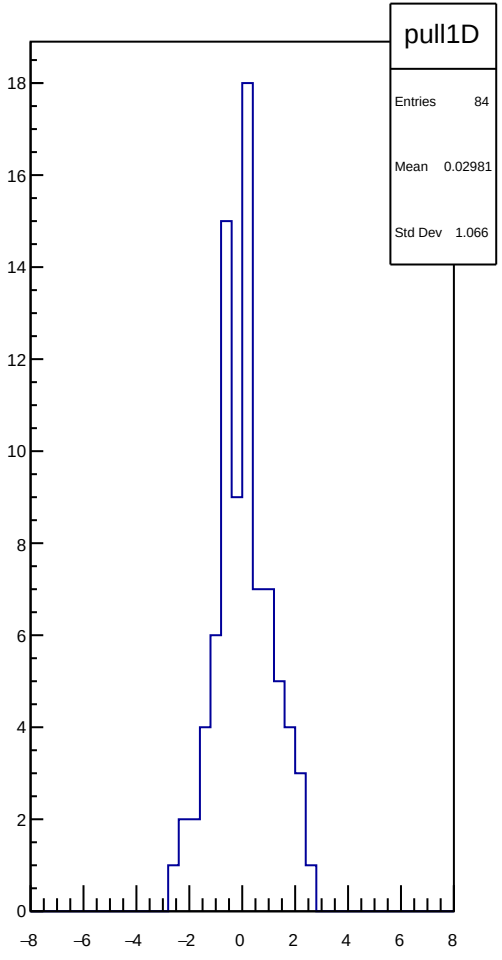

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 3.115e+04 / 83
p0 104.4 ± 0.08265
150
140
130
120
110
100
90
80
70
60

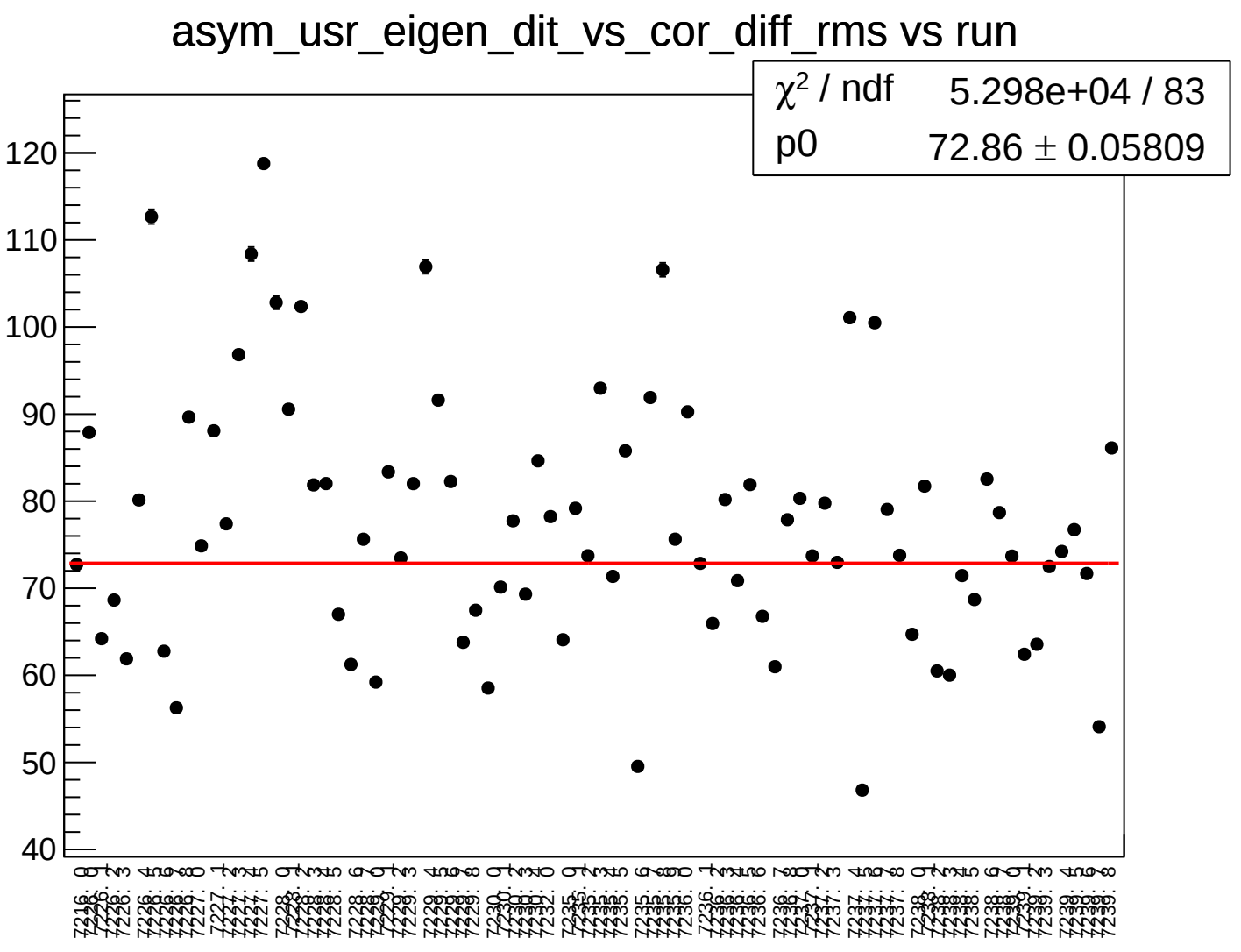

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.1 / 83
p0 4.652e−06 ± 6.067e−06
pull
Entries 84
Mean 98.21
Std Dev 0

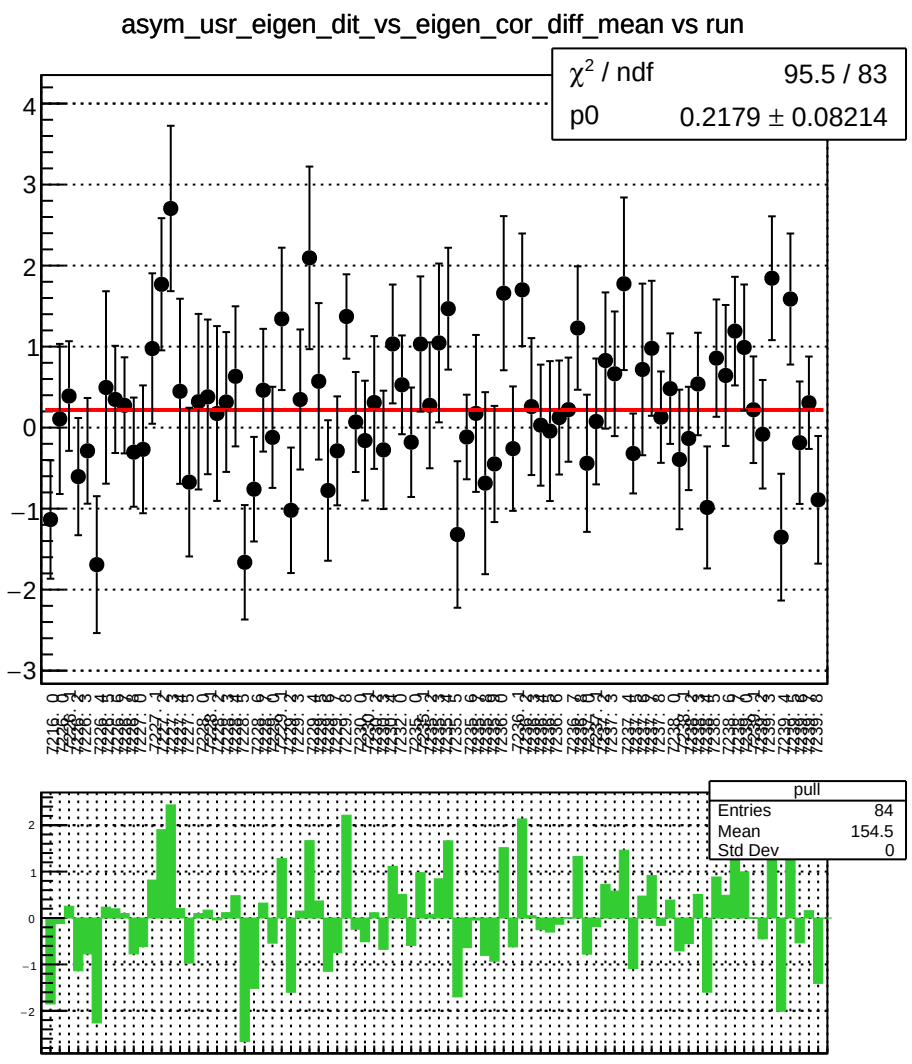

pull1D
Entries 84
Mean 0.01059
Std Dev 1.081

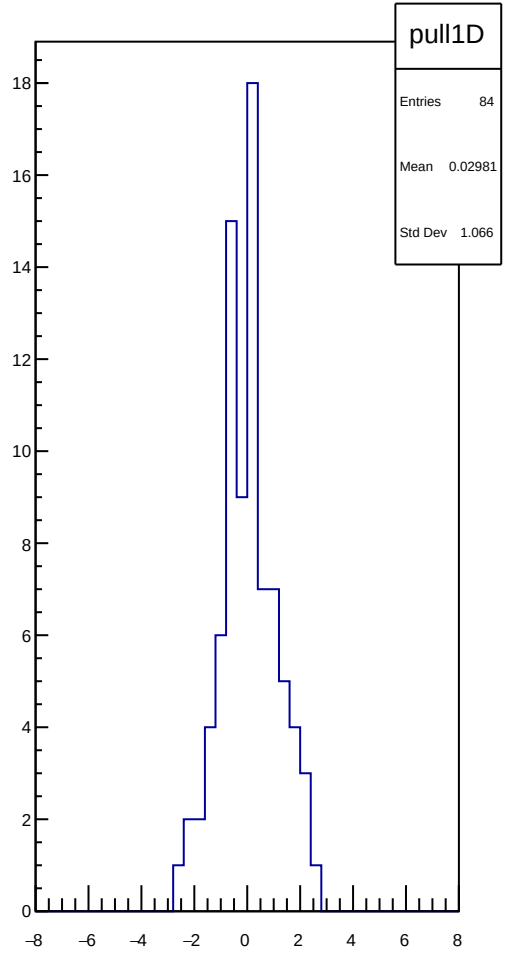

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.186e+05 / 83
p0 0.005268 ± 4.29e−06
0.008
0.007
0.006
0.005
0.004

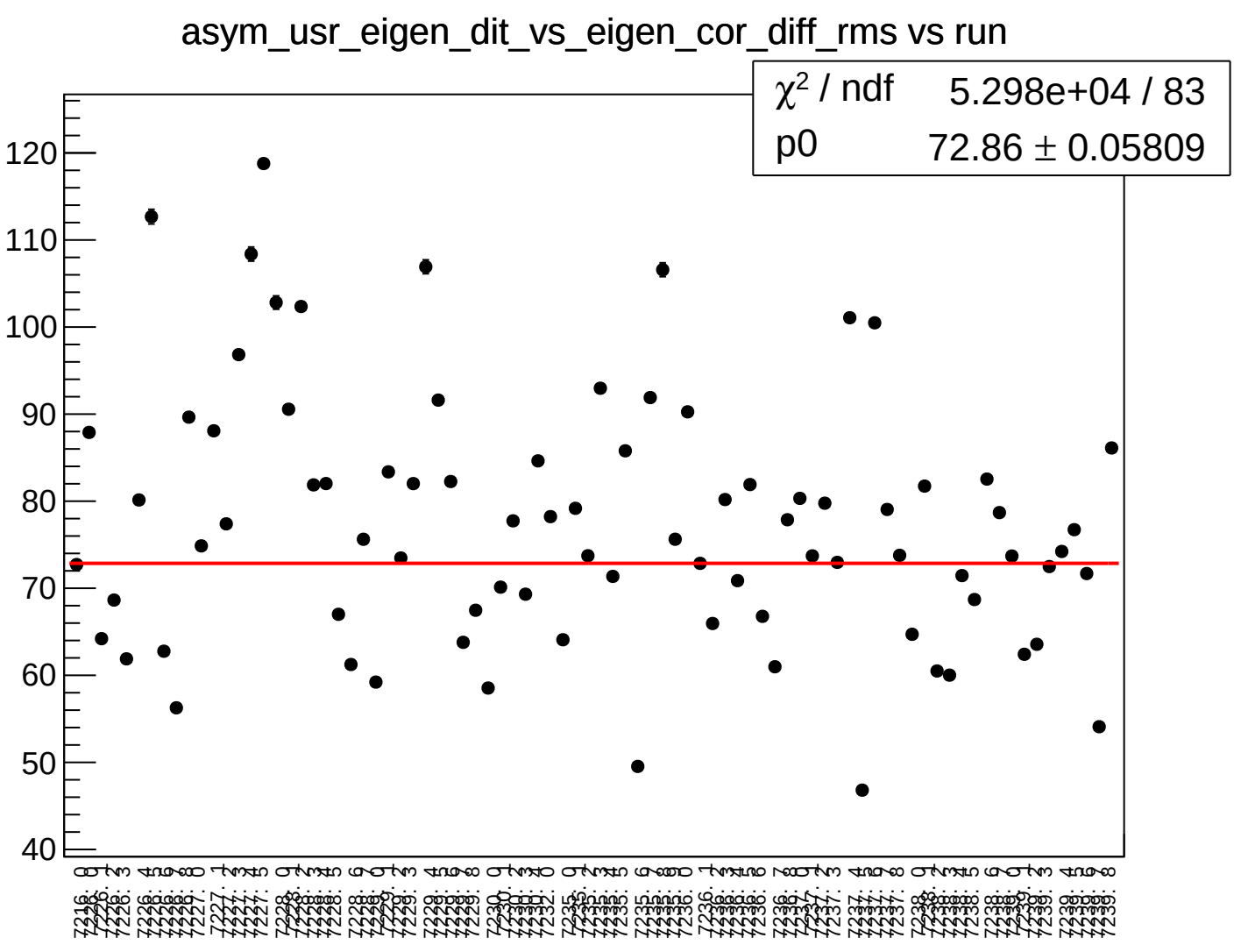

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.5 / 83
p0 0.2179 ± 0.08214
pull
Entries 84
Mean 154.5
Std Dev 0

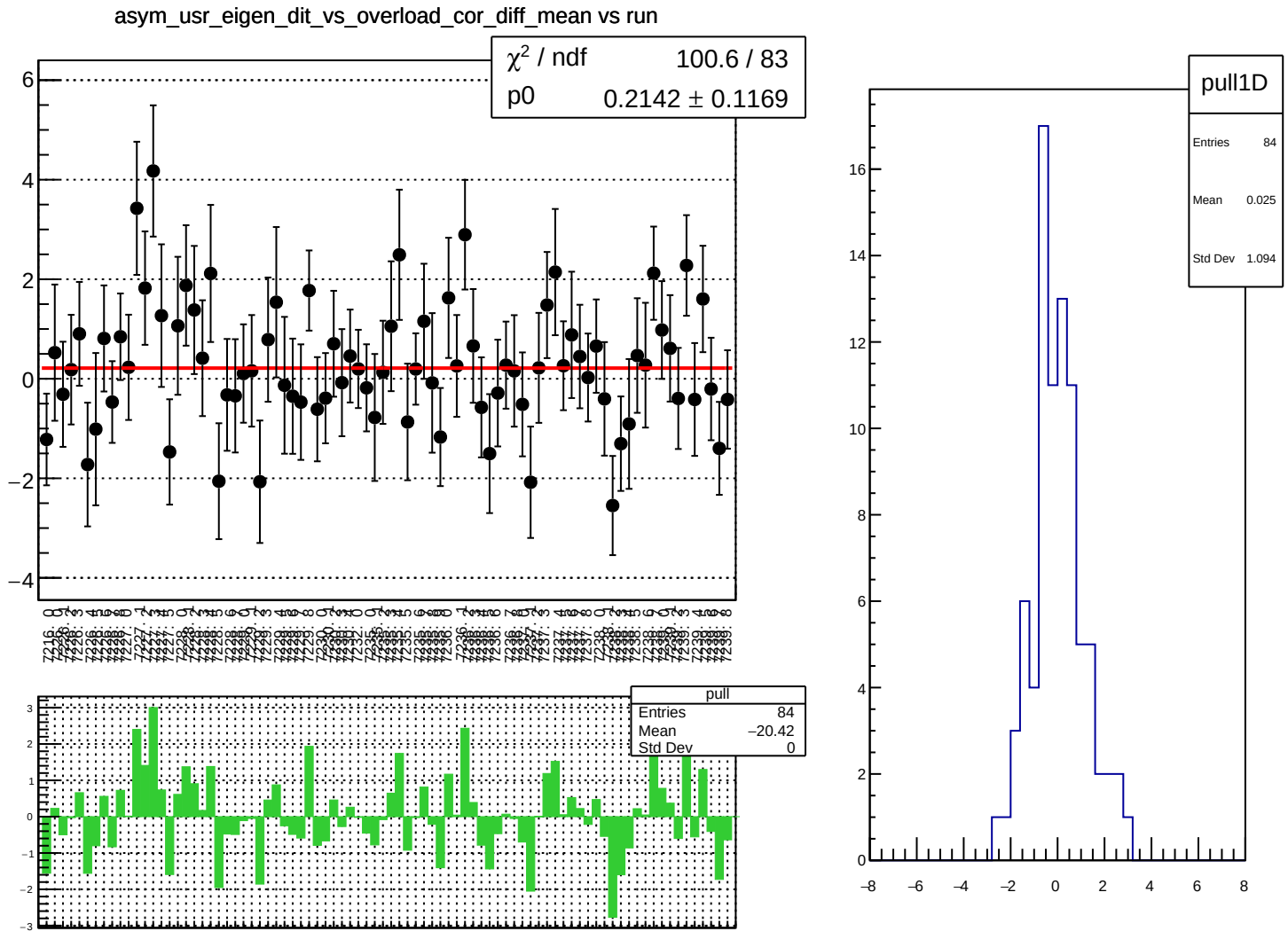

pull1D
Entries 84
Mean 0.02981
Std Dev 1.066

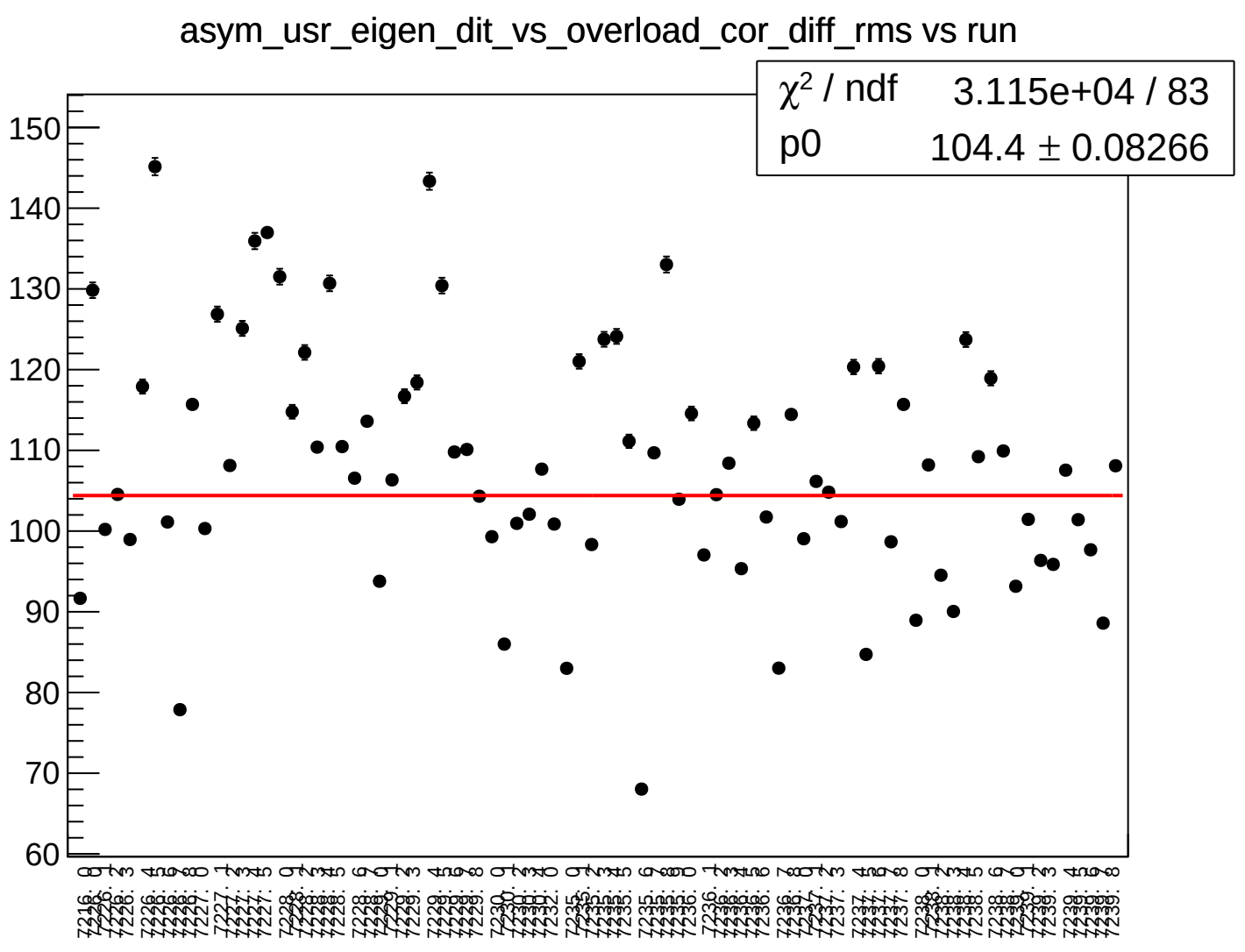

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.298e+04 / 83
p0 72.86 ± 0.05809
120
110
100
90
80
70
60
50
40

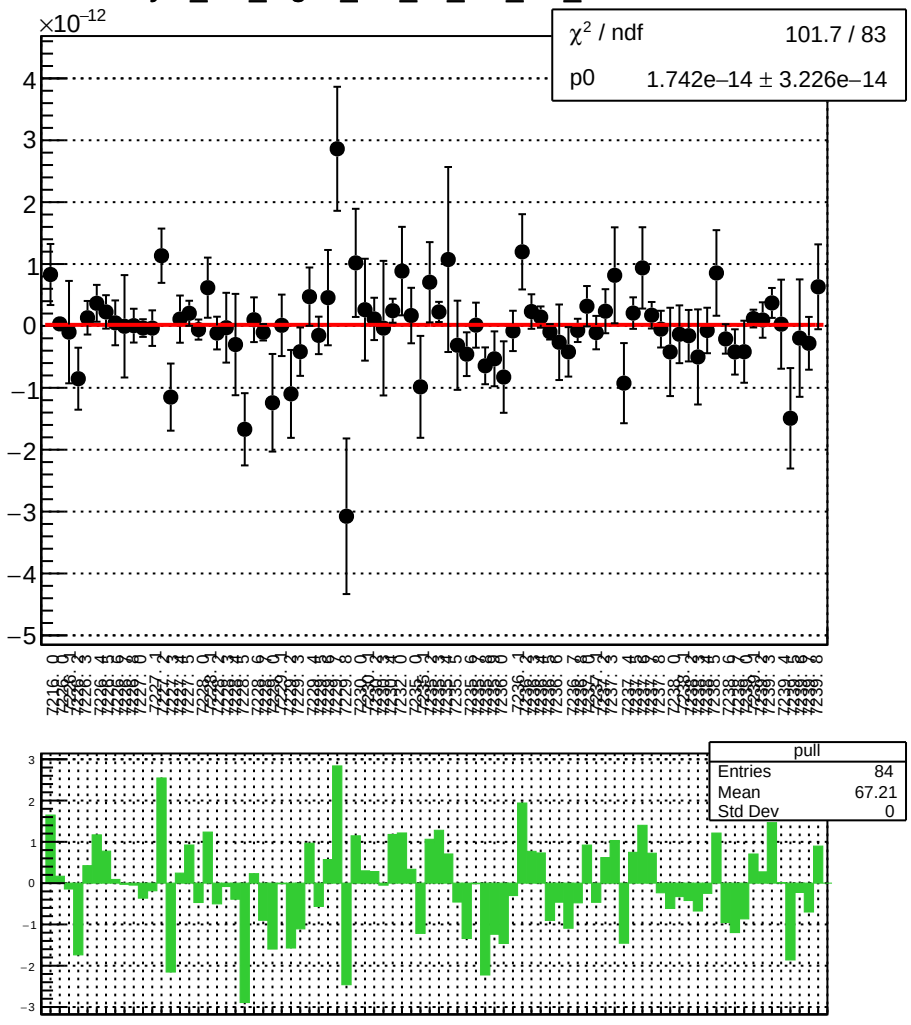

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.5 / 83
p0 0.2179 ± 0.08214
pull
Entries 84
Mean 154.5
Std Dev 0

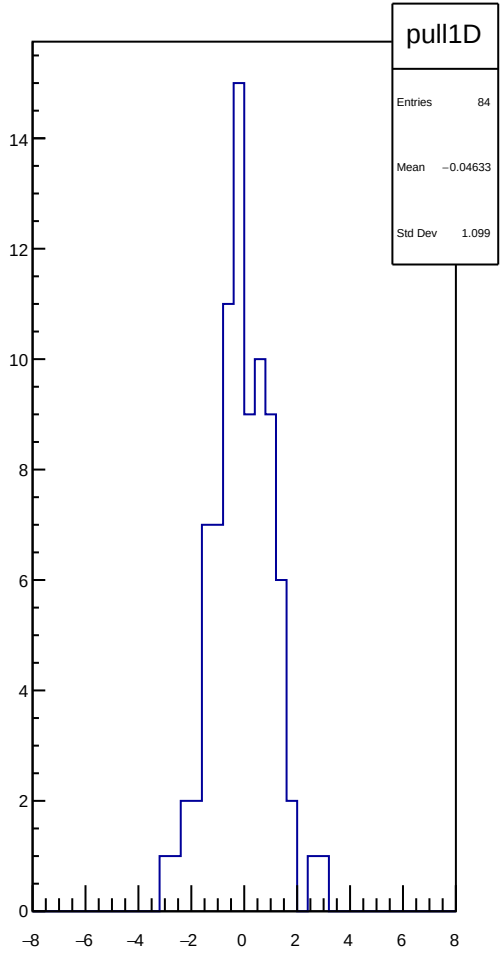

pull1D
Entries 84
Mean 0.02981
Std Dev 1.066

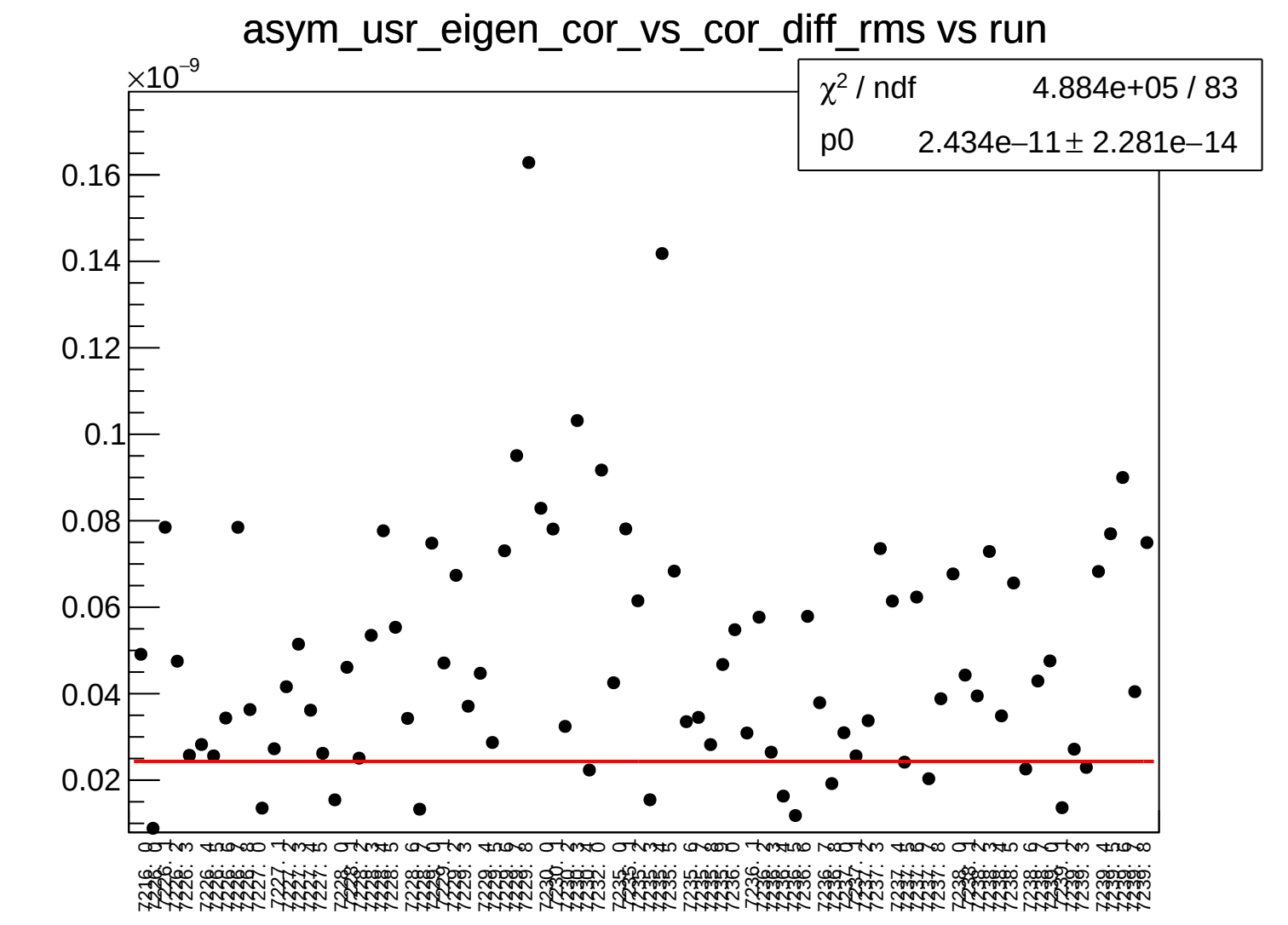

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 5.298e+04 / 83
p0 72.86 ± 0.05809
120
110
100
90
80
70
60
50
40

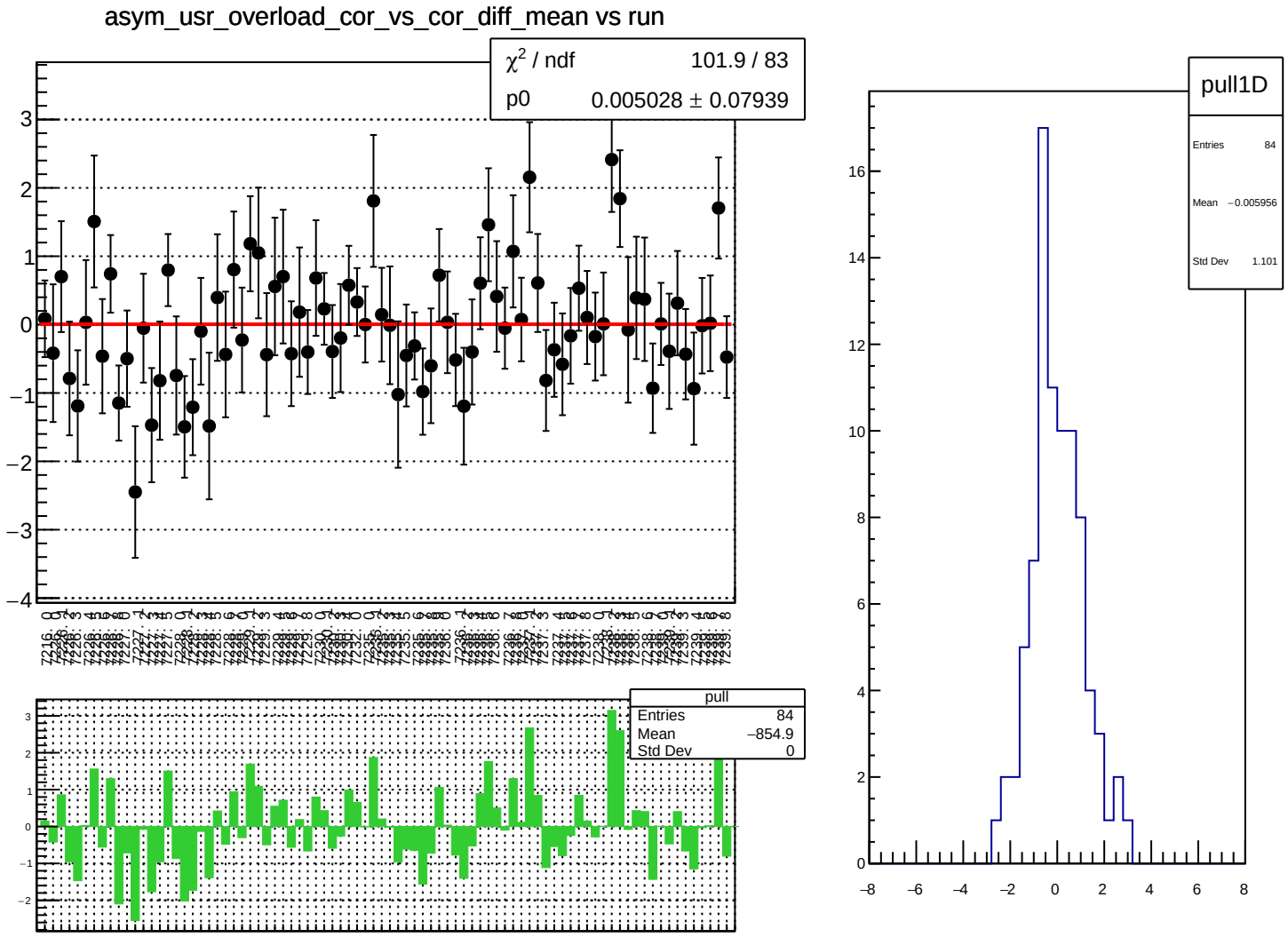

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 100.6 / 83
p0 0.2142 ± 0.1169
pull
Entries 84
Mean −20.42
Std Dev 0
pull1D
Entries 84
Mean 0.025
Std Dev 1.094

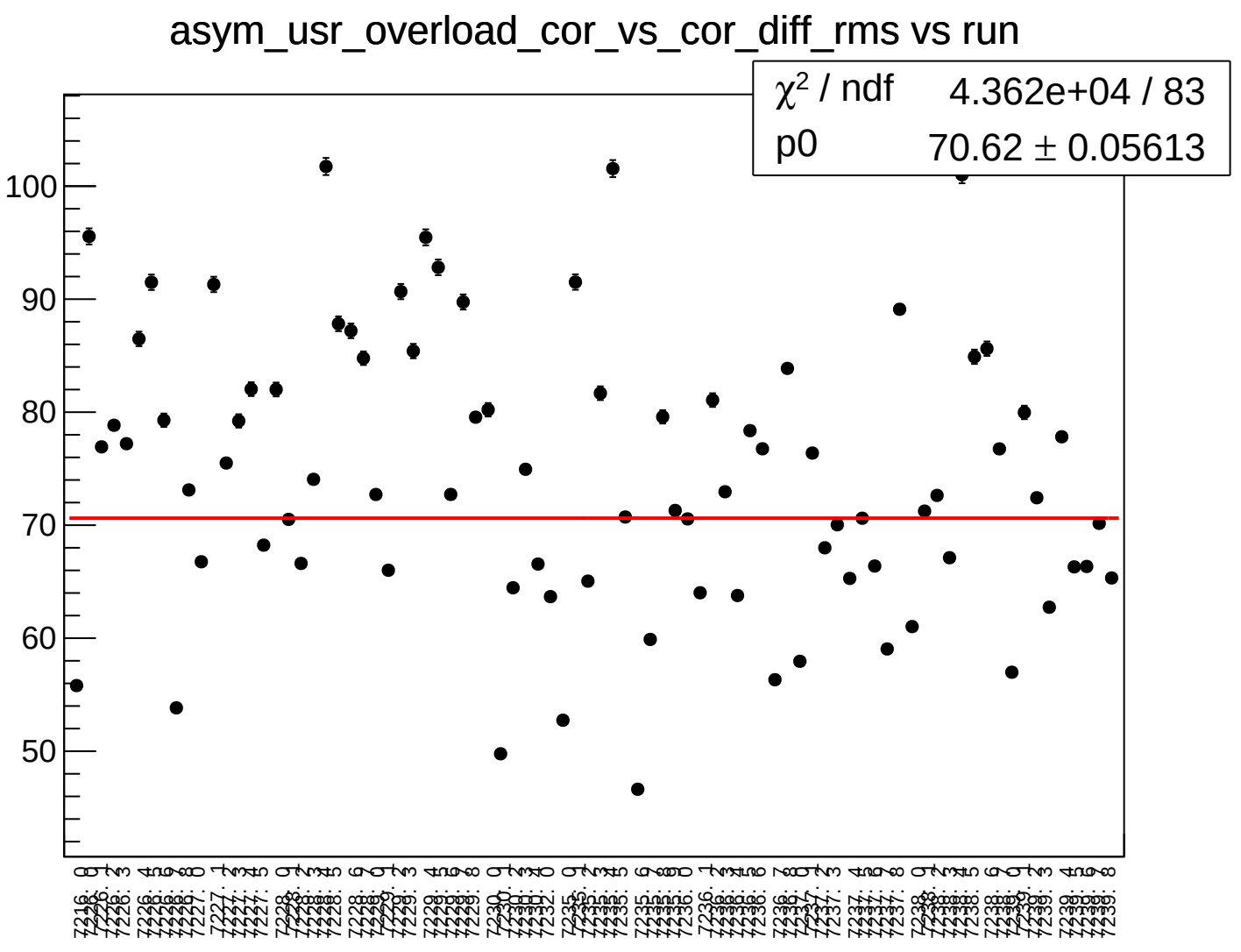

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 3.115e+04 / 83
p0 104.4 ± 0.08266
150
140
130
120
110
100
90
80
70
60

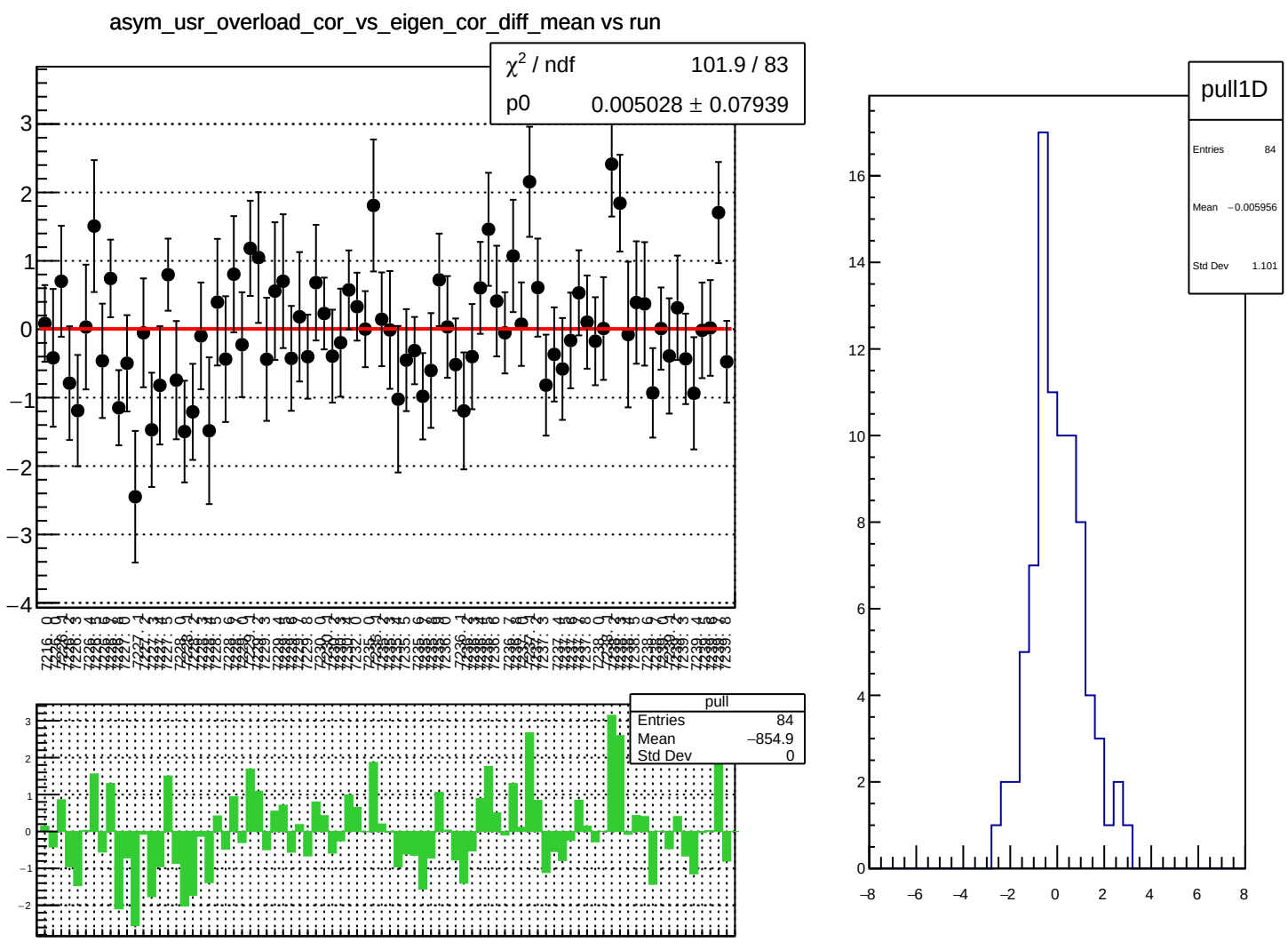

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 101.7 / 83
p0 1.742e−14 ± 3.226e−14
pull
Entries 84
Mean 67.21
Std Dev 0

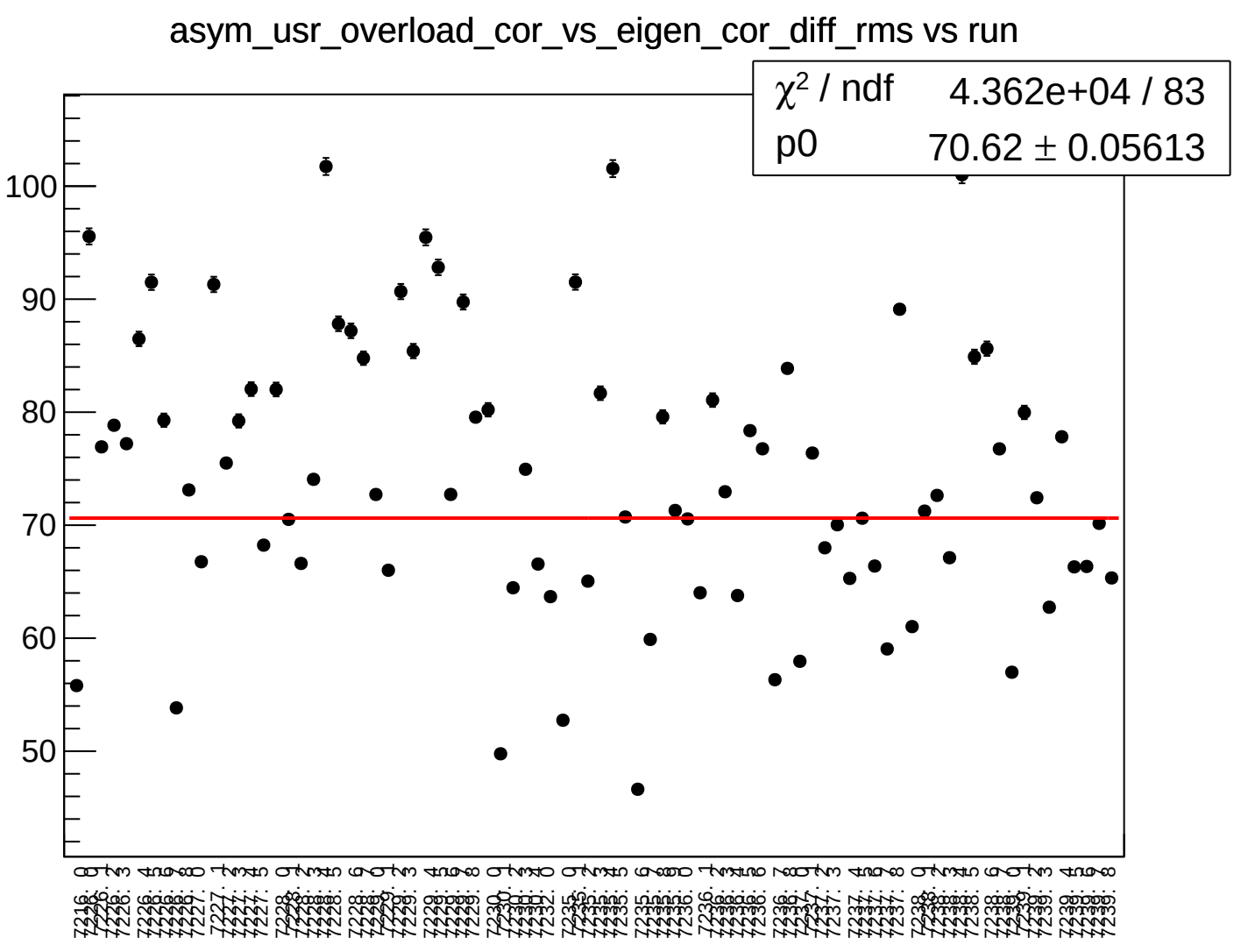

pull1D
Entries 84
Mean −0.04633
Std Dev 1.099

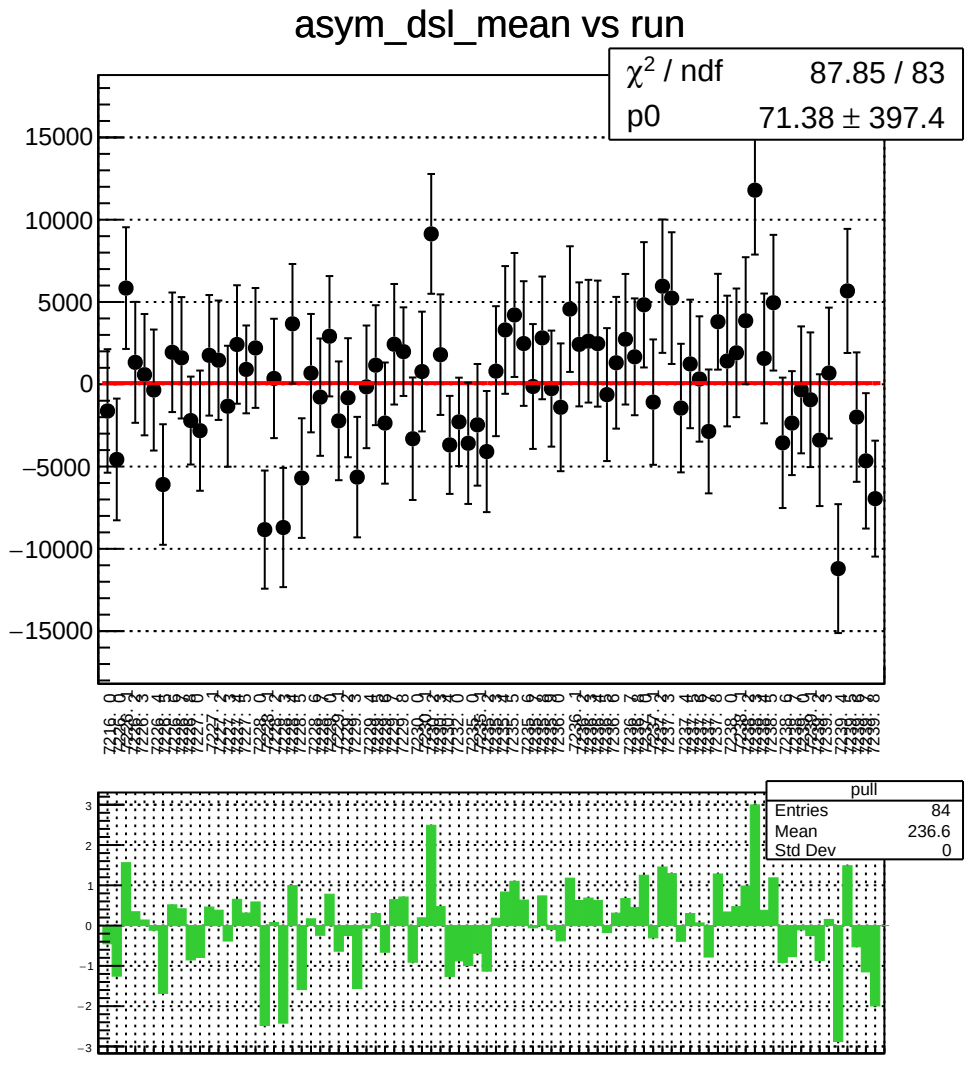

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.884e+05 / 83
p0 2.434e−11 ± 2.281e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

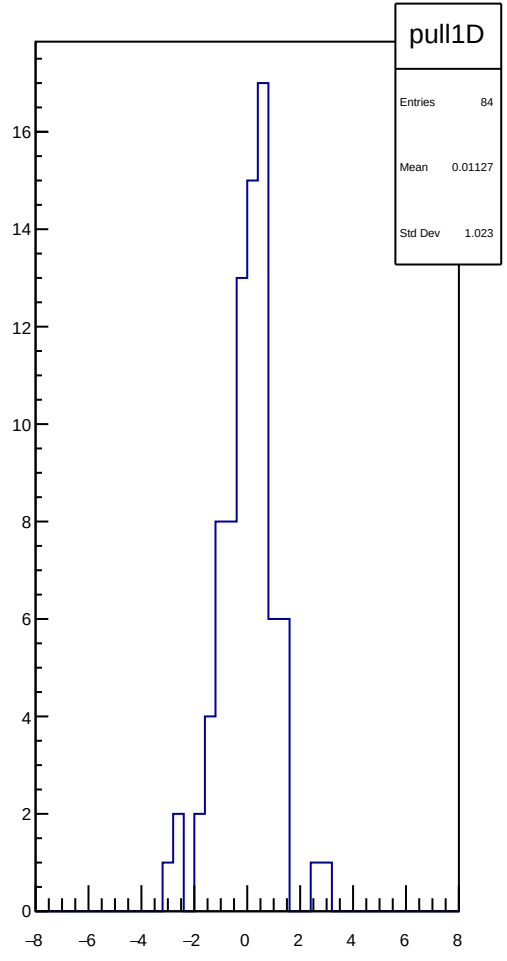

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 101.9 / 83
p0 0.005028 ± 0.07939
pull
Entries 84
Mean −854.9
Std Dev 0
pull1D
Entries 84
Mean −0.005956
Std Dev 1.101

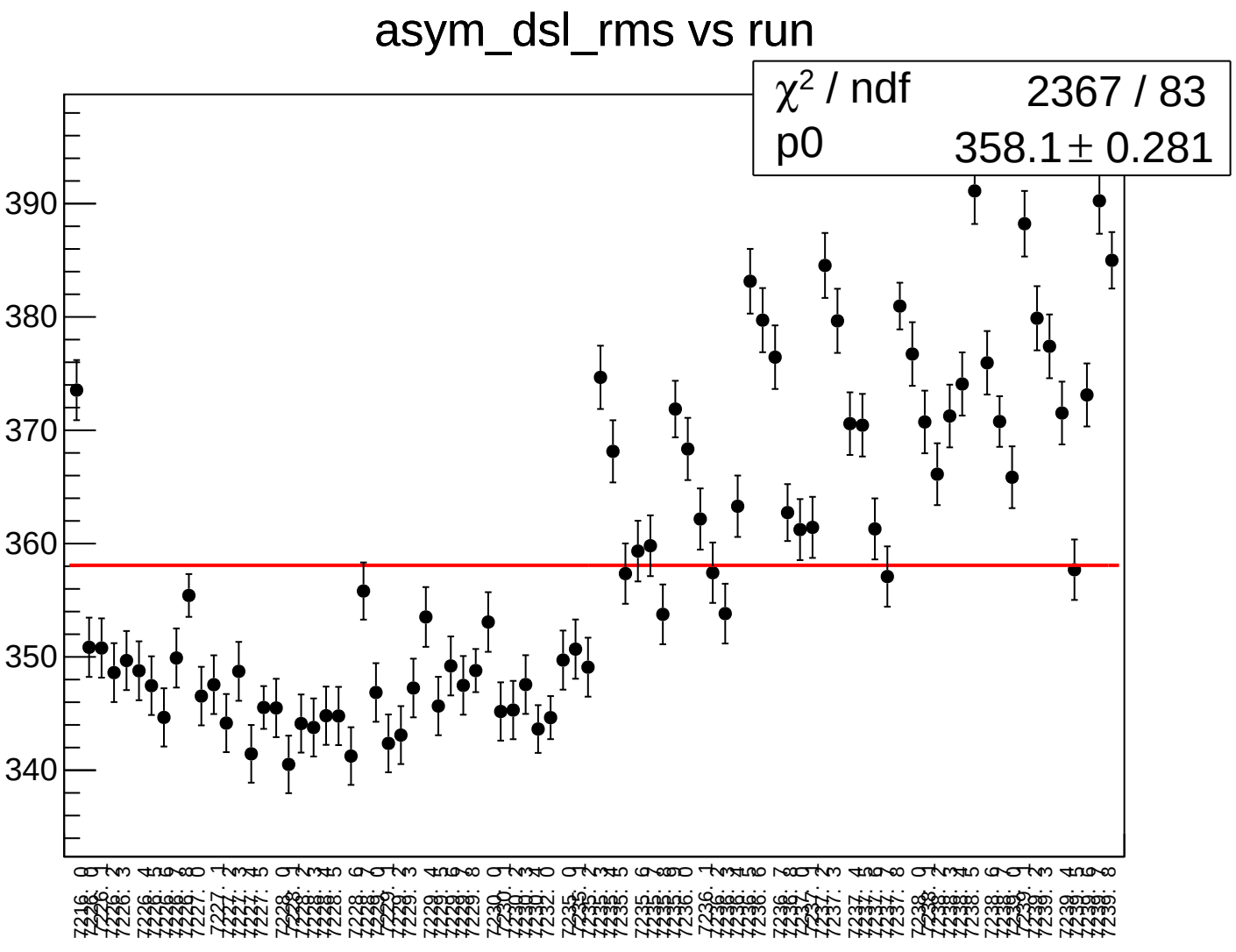

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 4.362e+04 / 83
p0 70.62 ± 0.05613
100
90
80
70
60
50

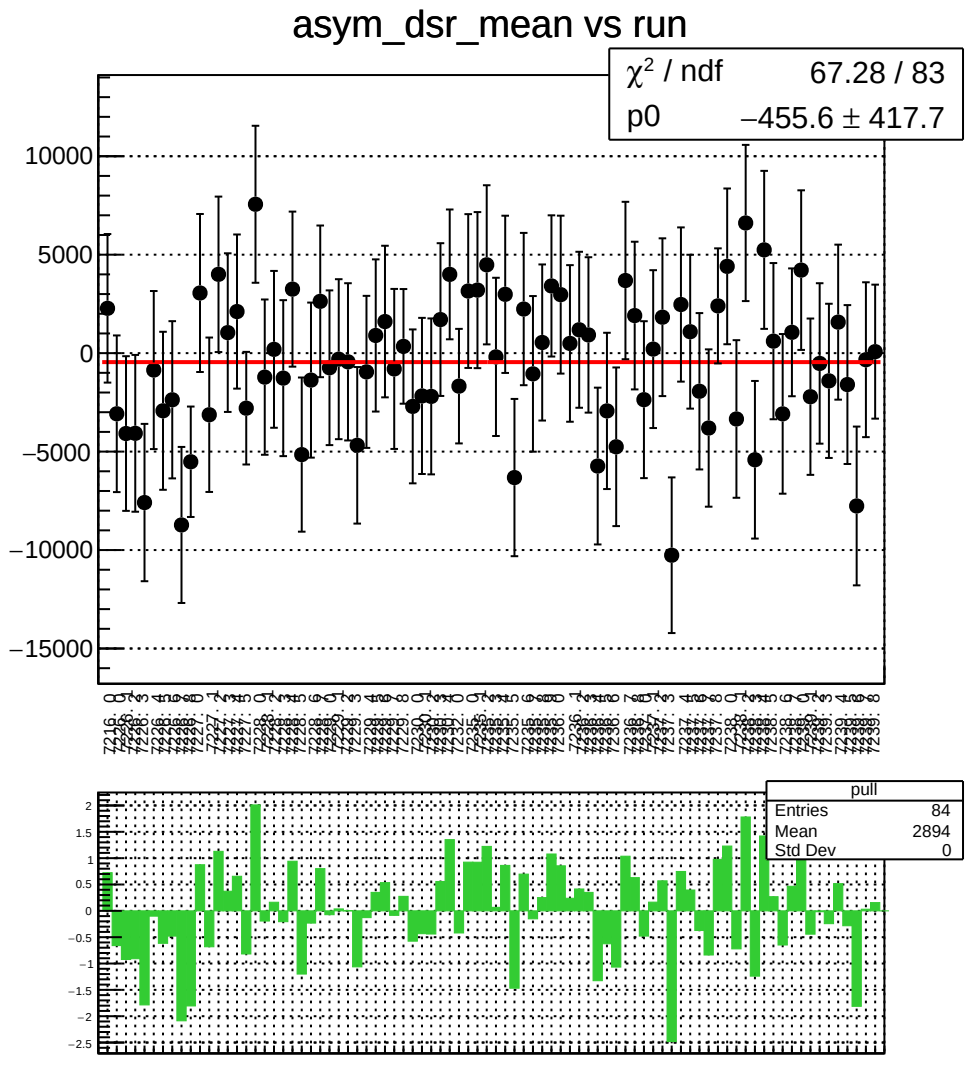

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.9 / 83
p0 0.005028 ± 0.07939
pull
Entries 84
Mean −854.9
Std Dev 0
pull1D
Entries 84
Mean −0.005956
Std Dev 1.101

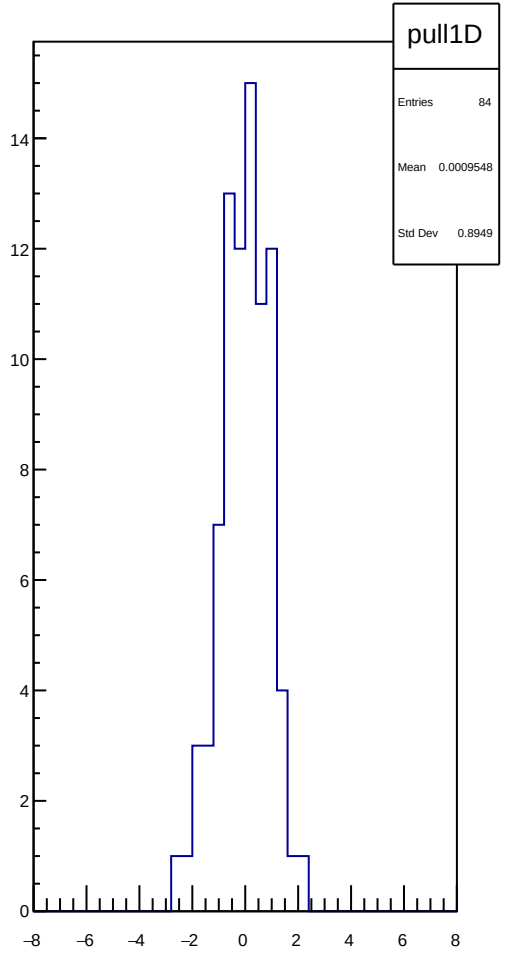

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.362e+04 / 83
p0 70.62 ± 0.05613
100
90
80
70
60
50

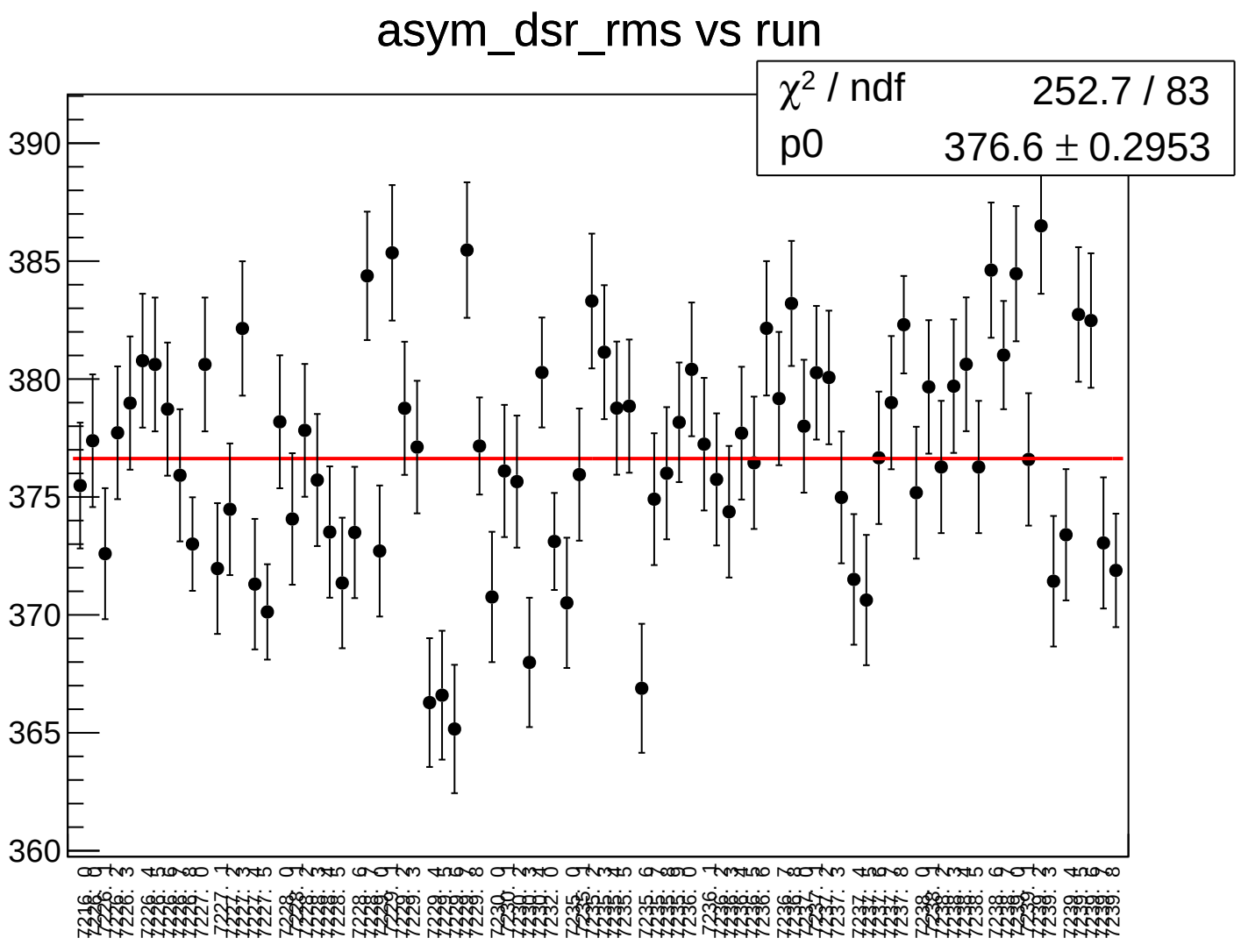

asym_dsl_mean vs run
χ² / ndf 87.85 / 83
p0 71.38 ± 397.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 236.6
Std Dev 0
3
2
1
0
−1
−2
−3

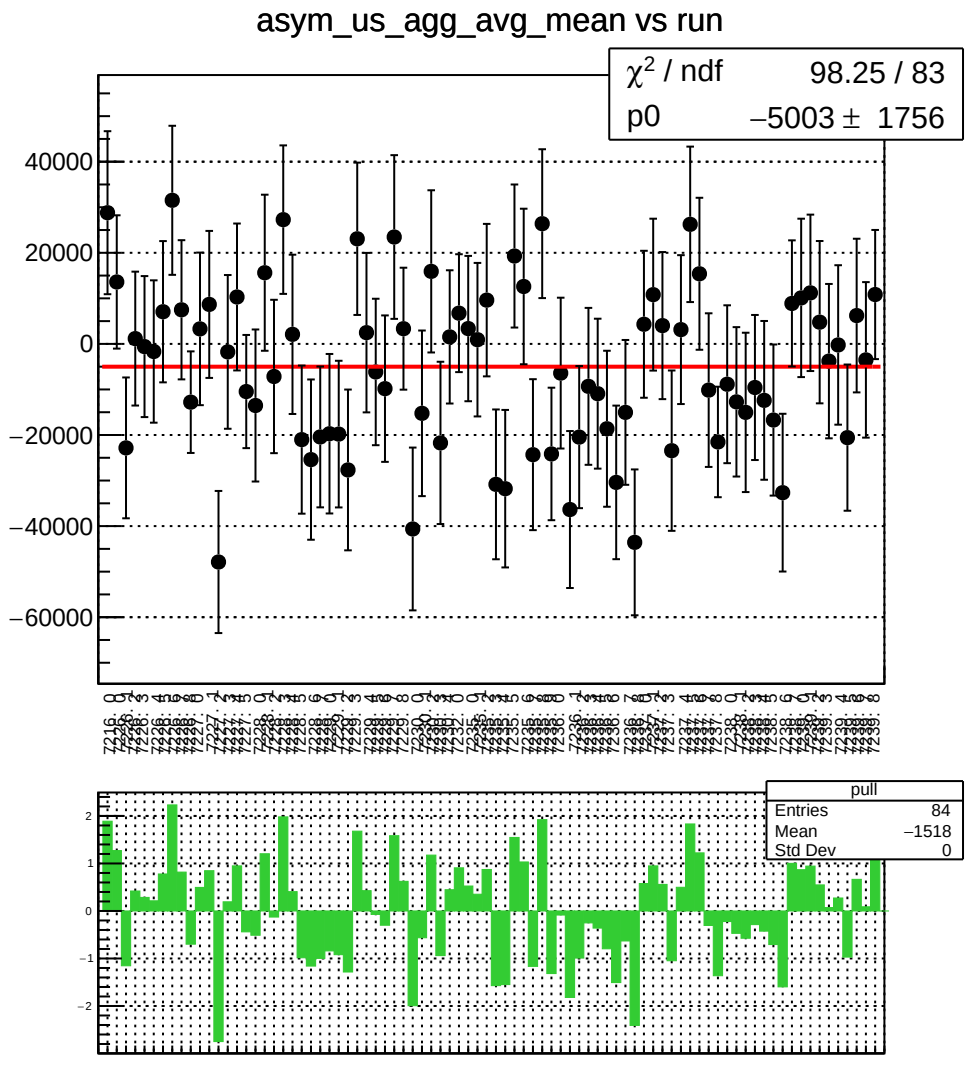

pull1D
Entries 84
Mean 0.01127
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

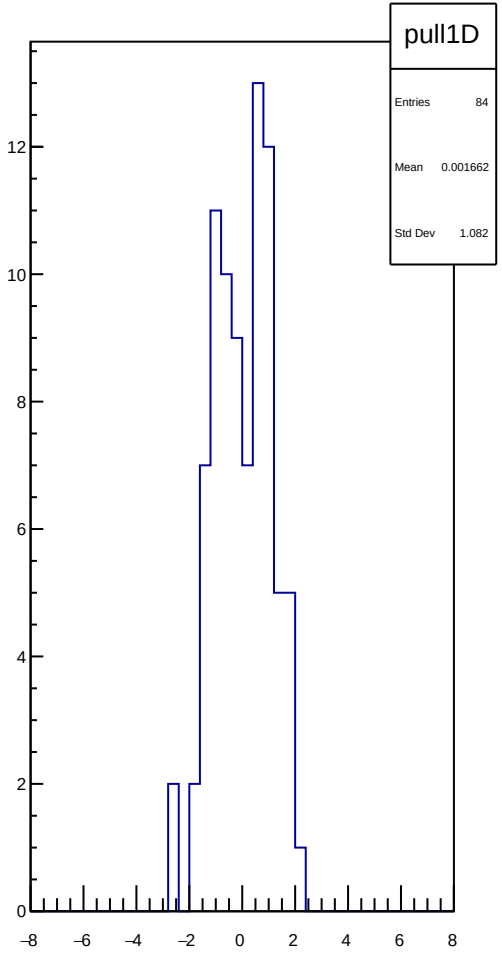

asym_dsl_rms vs run
χ^2 / ndf 2367 / 83
p0 358.1 ± 0.281
390
380
370
360
350
340

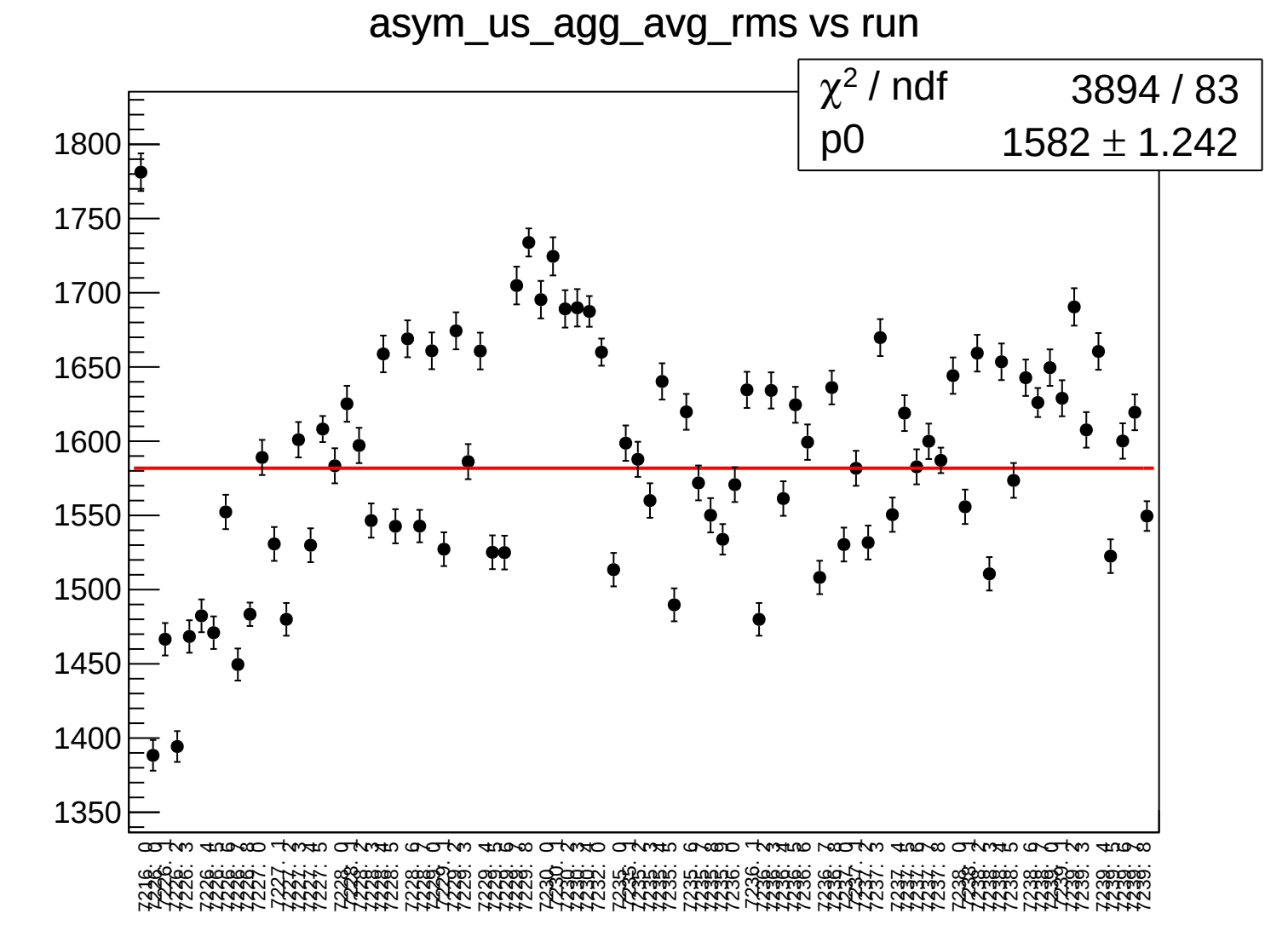

asym_dsr_mean vs run
χ² / ndf 67.28 / 83
p0 −455.6 ± 417.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 2894
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

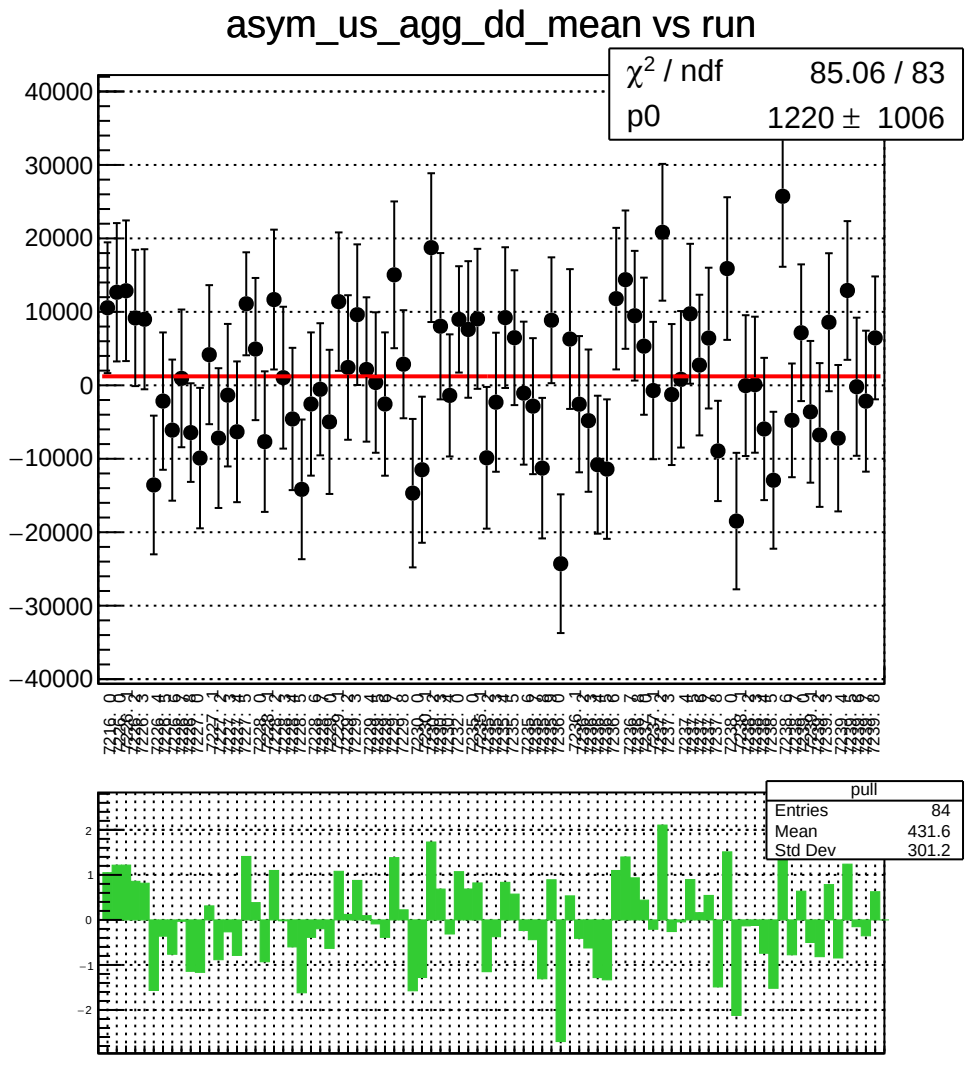

pull1D
Entries 84
Mean 0.0009548
Std Dev 0.8949
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

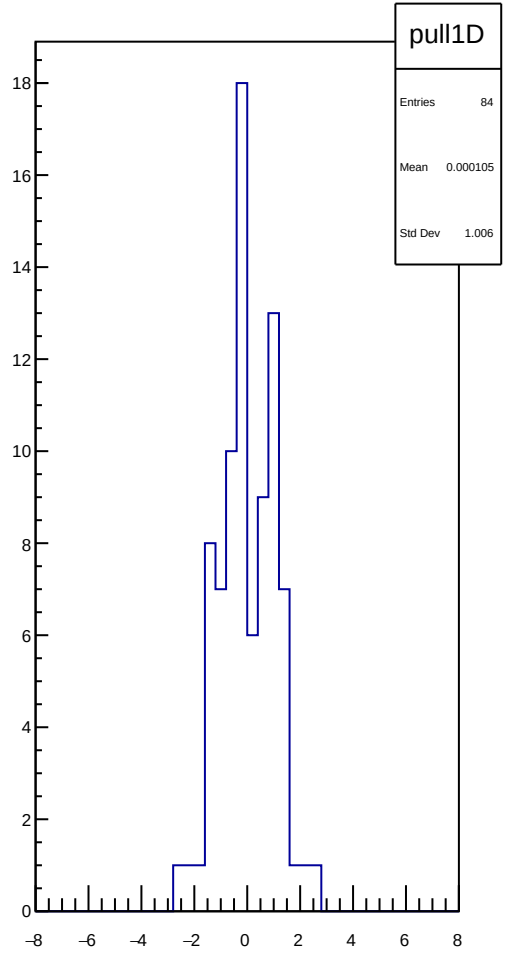

asym_dsr_rms vs run
χ² / ndf 252.7 / 83
p0 376.6 ± 0.2953
390
385
380
375
370
365
360

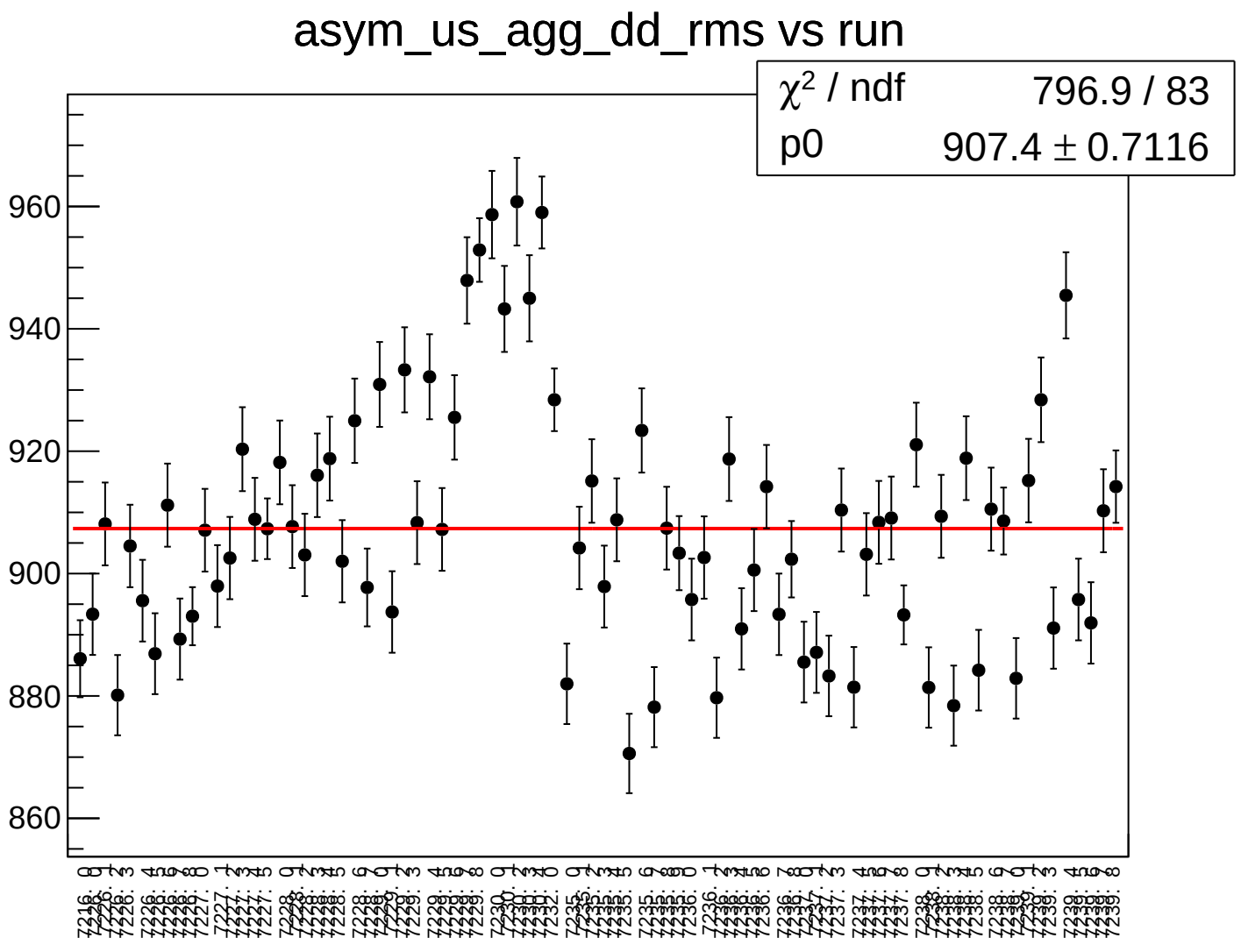

asym_us_agg_avg_mean vs run
χ² / ndf 98.25 / 83
p0 −5003 ± 1756
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −1518
Std Dev 0
2
1
0
−1
−2

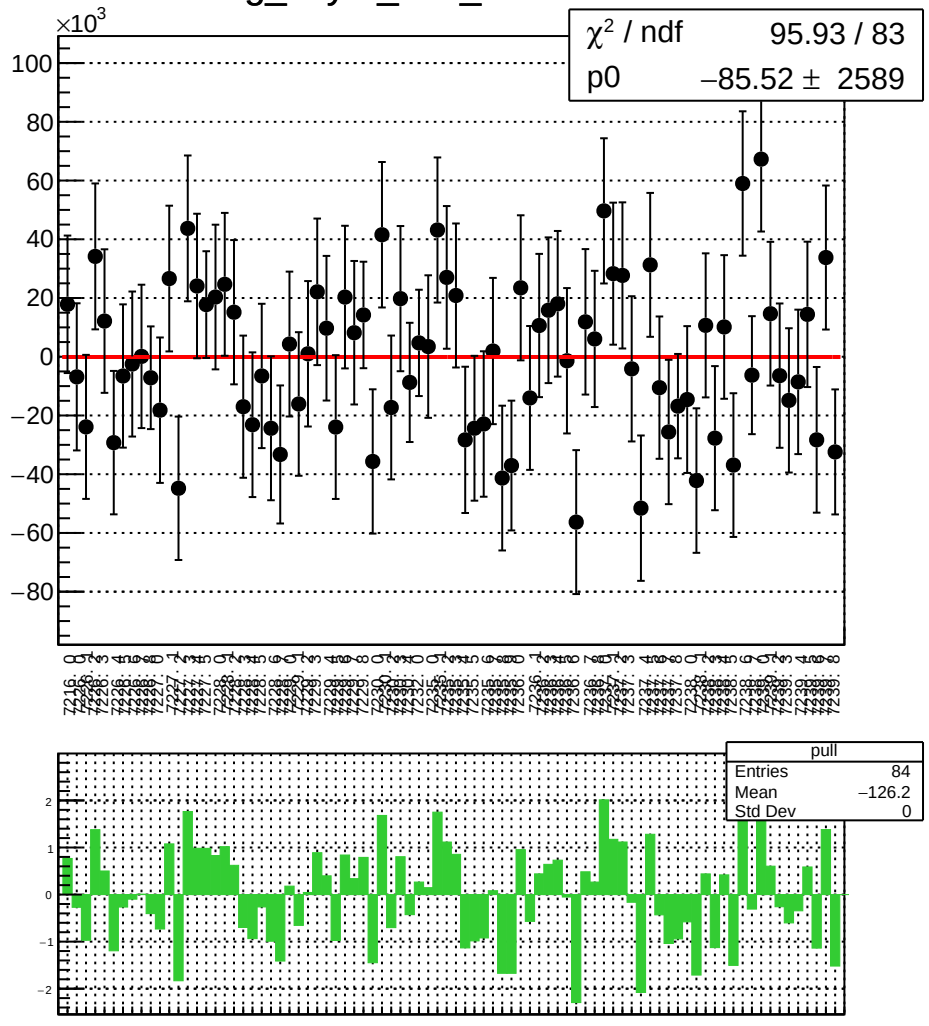

pull1D
Entries 84
Mean 0.001662
Std Dev 1.082
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

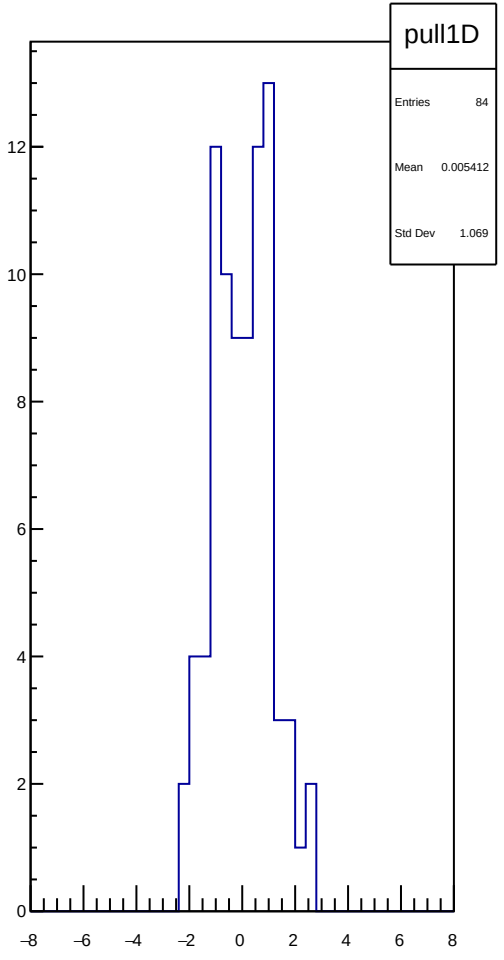

asym_us_agg_avg_rms vs run
χ² / ndf 3894 / 83
p0 1582 ± 1.242
1800
1750
1700
1650
1600
1550
1500
1450
1400
1350

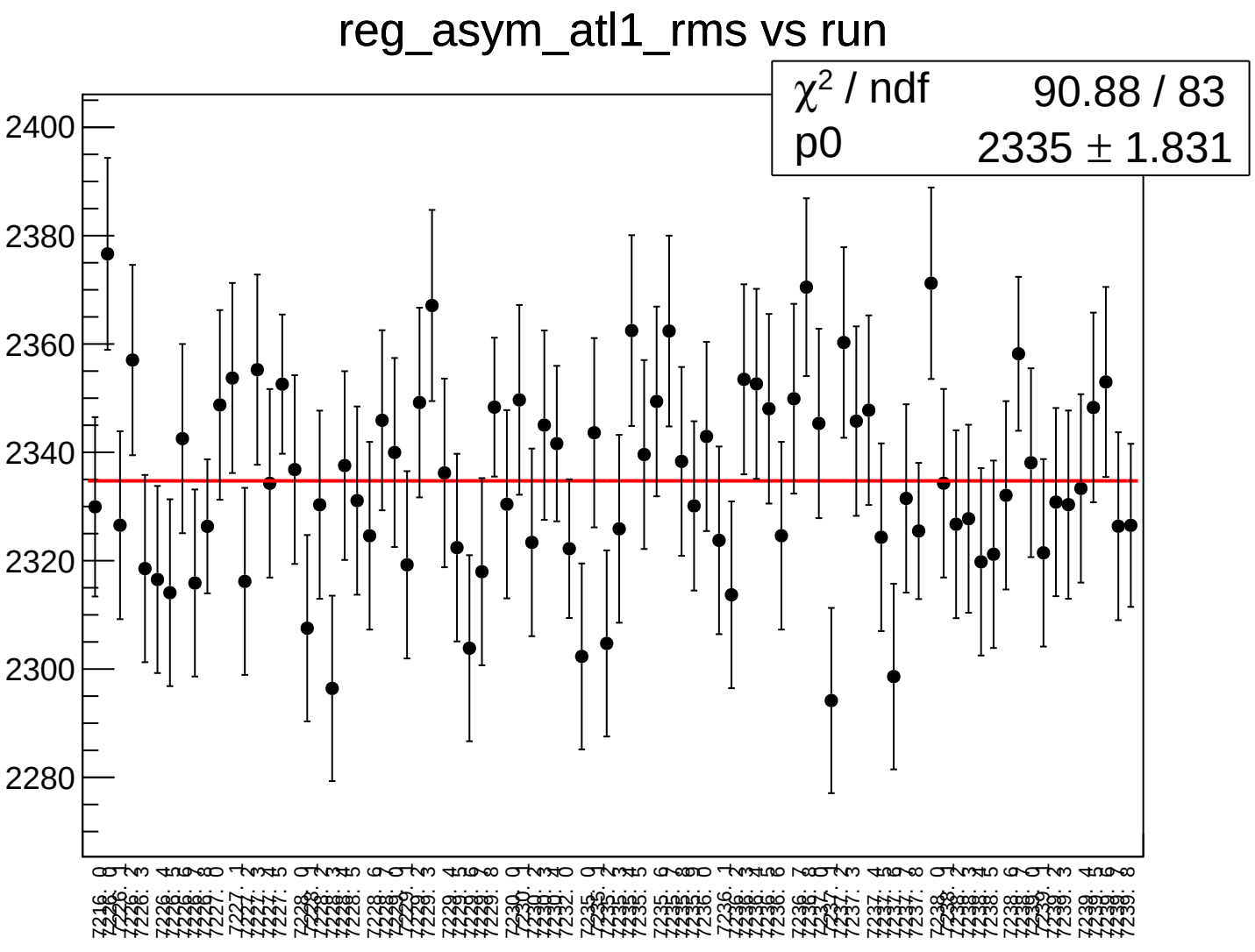

asym_us_agg_dd_mean vs run
χ² / ndf 85.06 / 83
p0 1220 ± 1006
pull
Entries 84
Mean 431.6
Std Dev 301.2

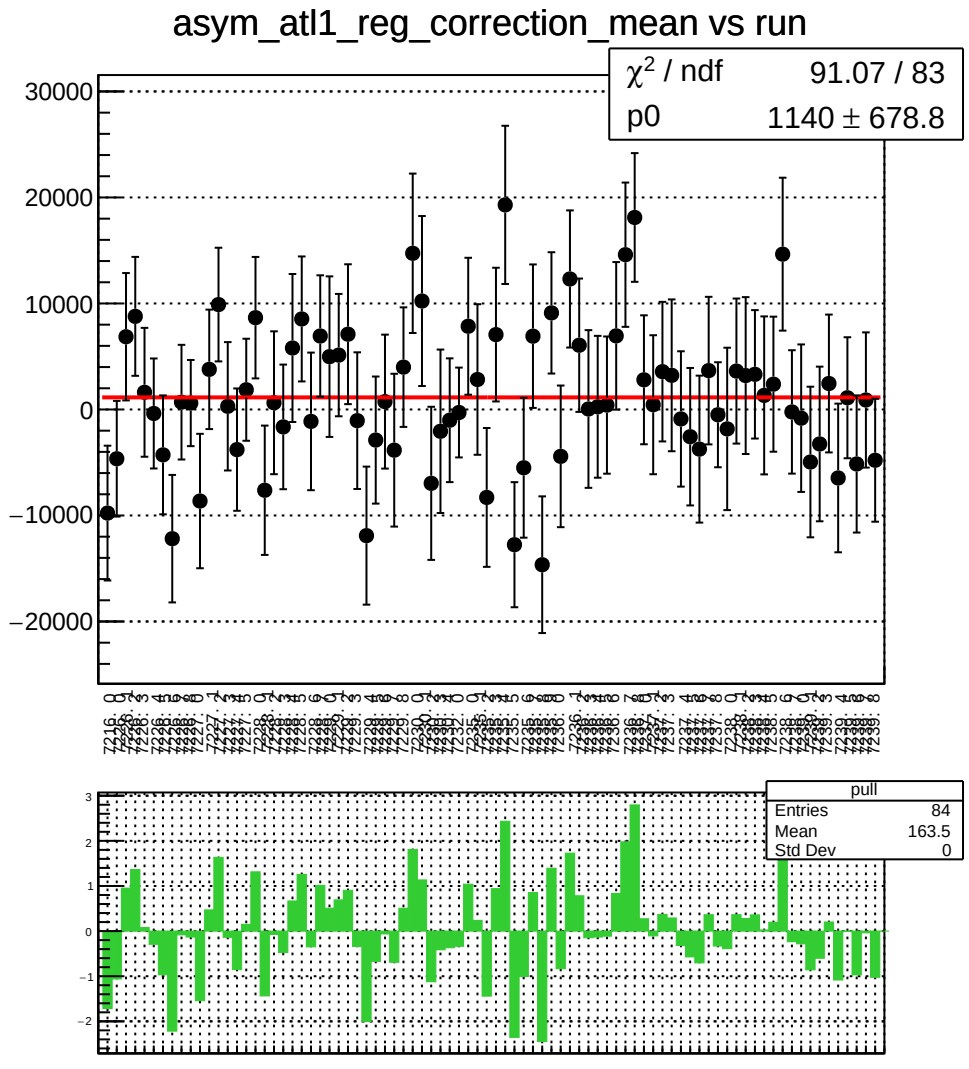

pull1D
Entries 84
Mean 0.000105
Std Dev 1.006

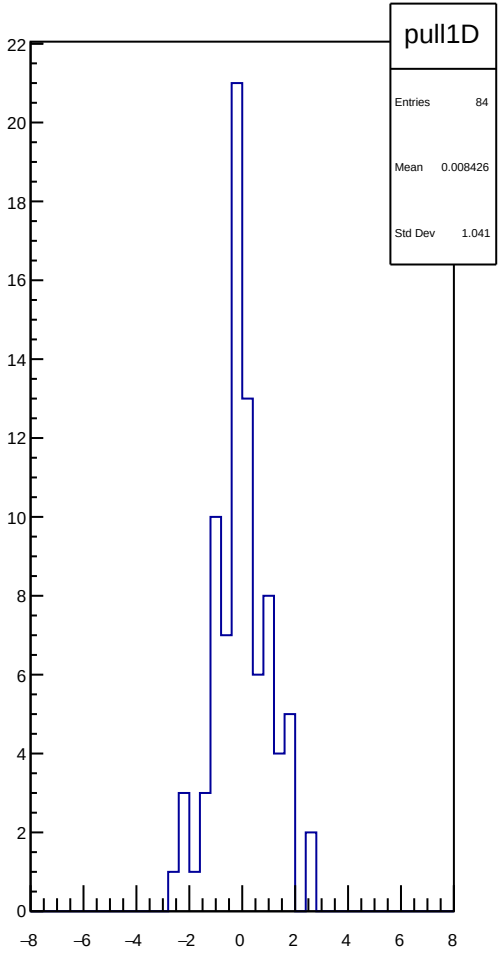

asym_us_agg_dd_rms vs run
χ² / ndf 796.9 / 83
p0 907.4 ± 0.7116
960
940
920
900
880
860

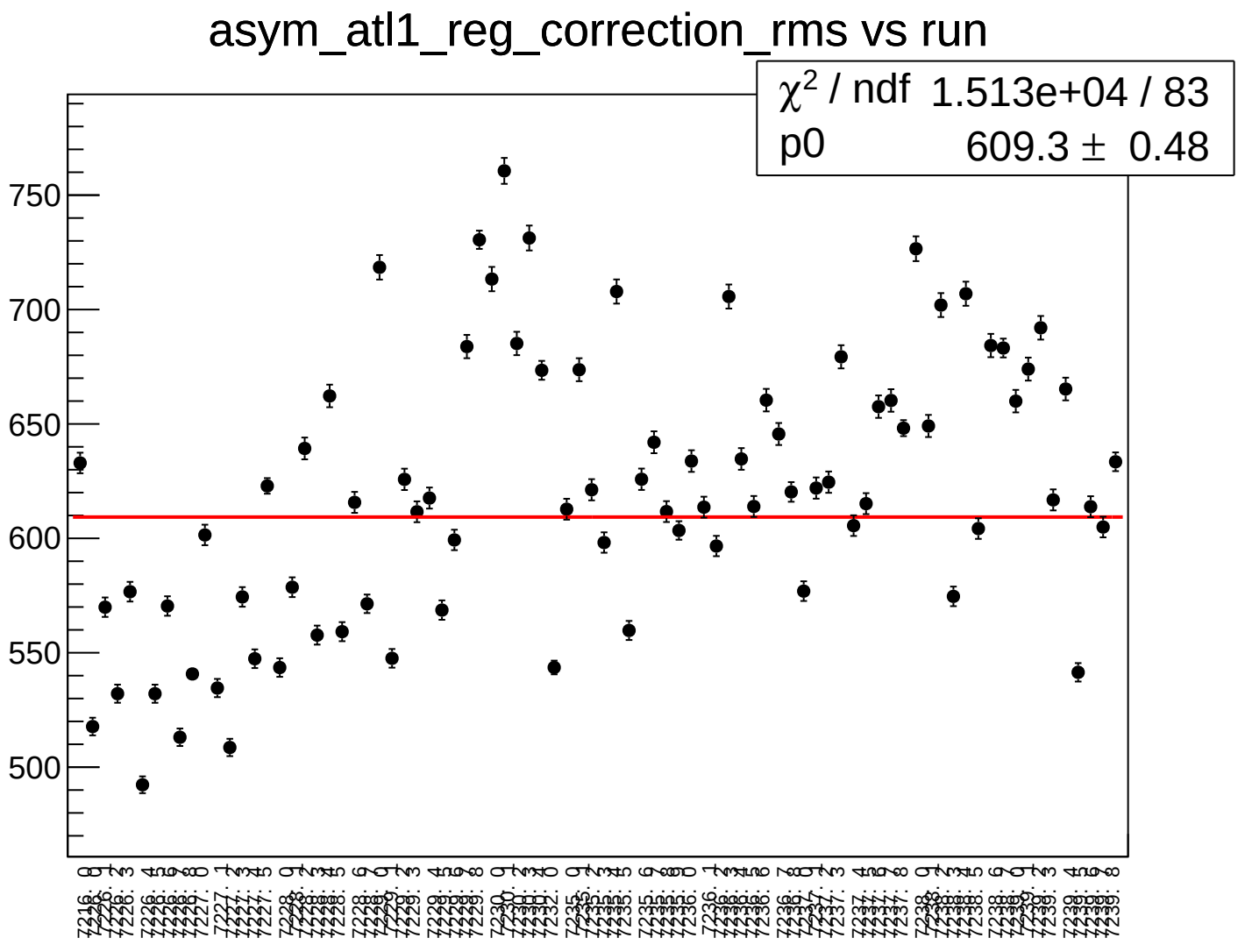

reg_asym_atl1_mean vs run
×10^3
χ² / ndf 95.93 / 83
p0 −85.52 ± 2589
pull
Entries 84
Mean −126.2
Std Dev 0

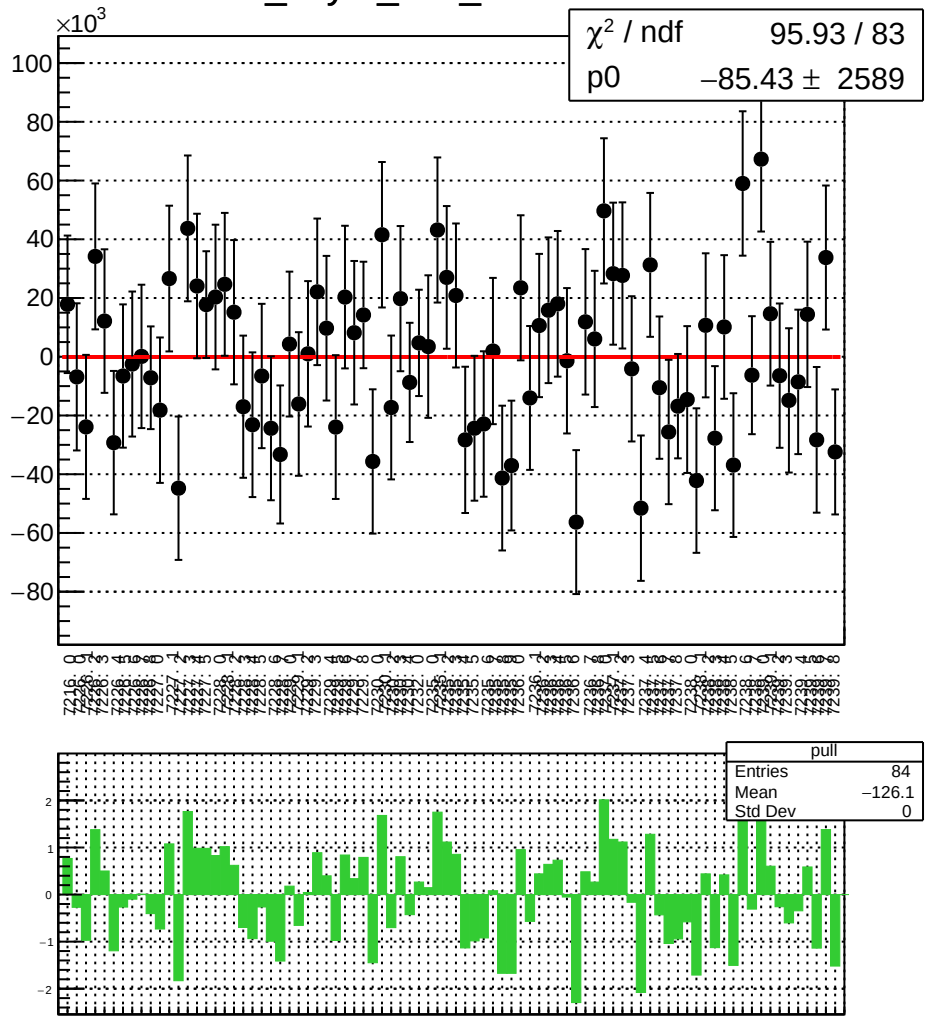

pull1D
Entries 84
Mean 0.005412
Std Dev 1.069

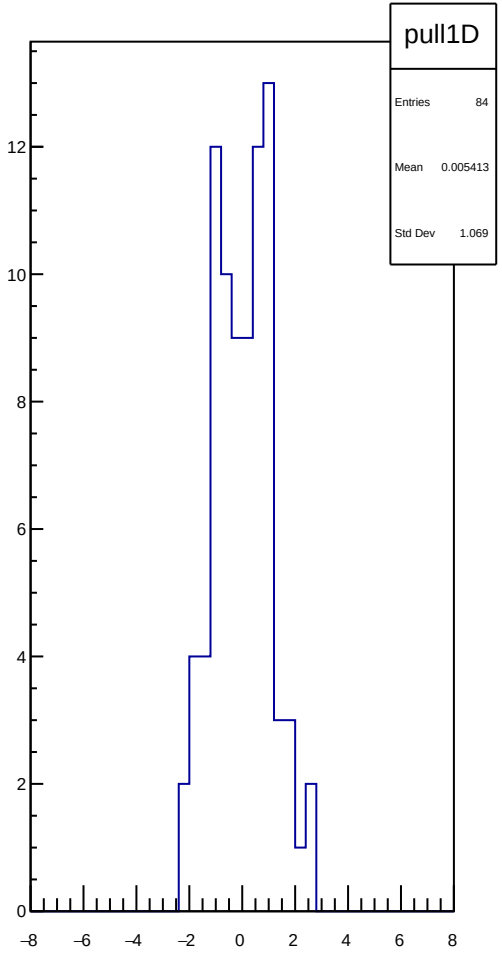

reg_asym_atl1_rms vs run
χ^2 / ndf 90.88 / 83
p0 2335 ± 1.831
2400
2380
2360
2340
2320
2300
2280

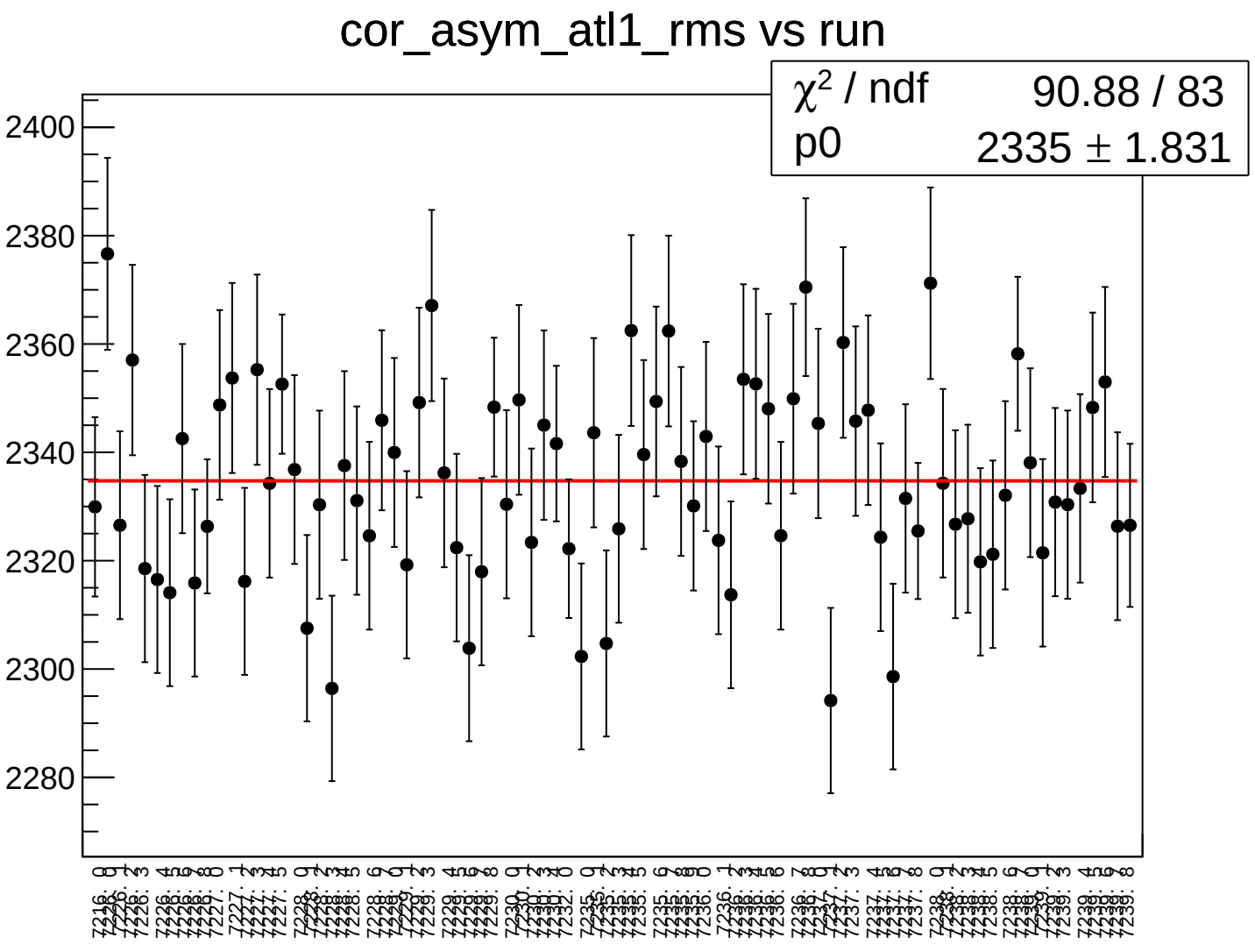

asym_atl1_reg_correction_mean vs run
χ² / ndf 91.07 / 83
p0 1140 ± 678.8
30000
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 163.5
Std Dev 0
3
2
1
0
−1
−2

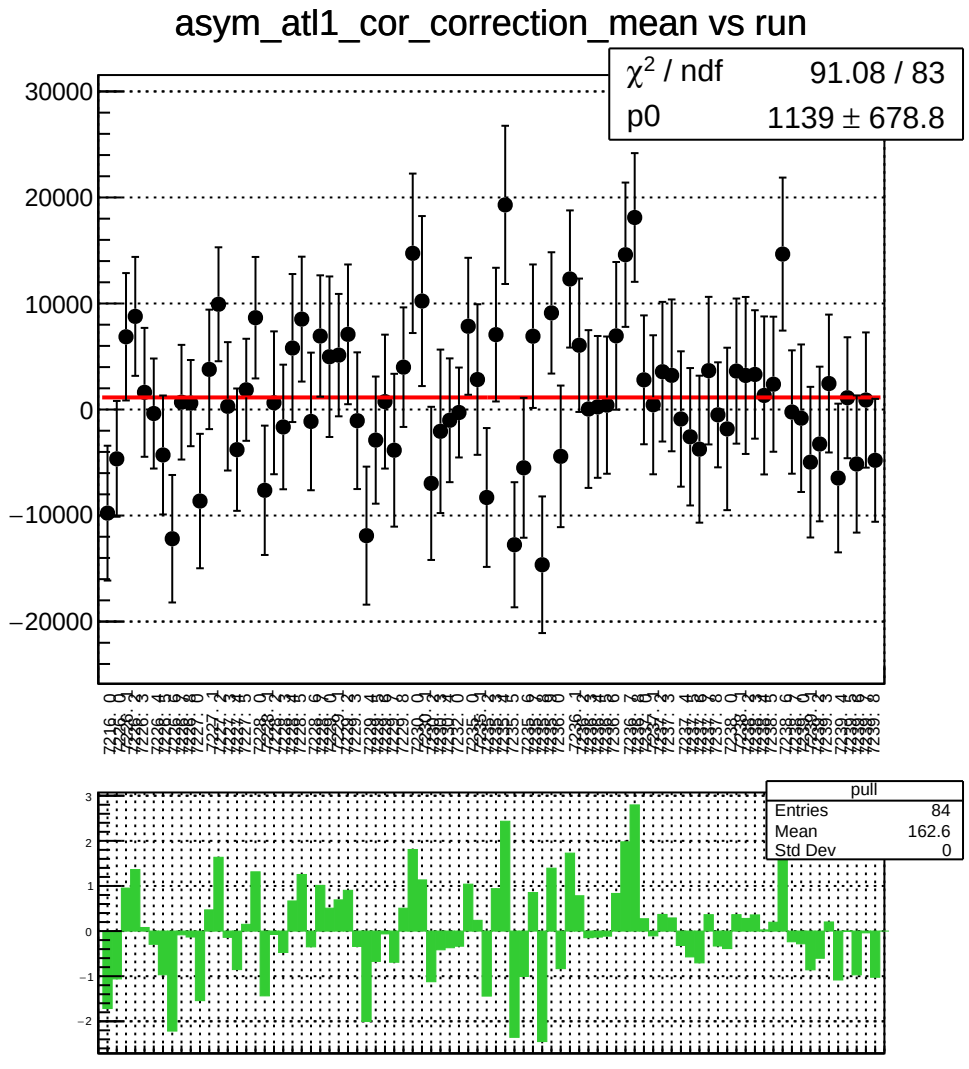

pull1D
Entries 84
Mean 0.008426
Std Dev 1.041
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

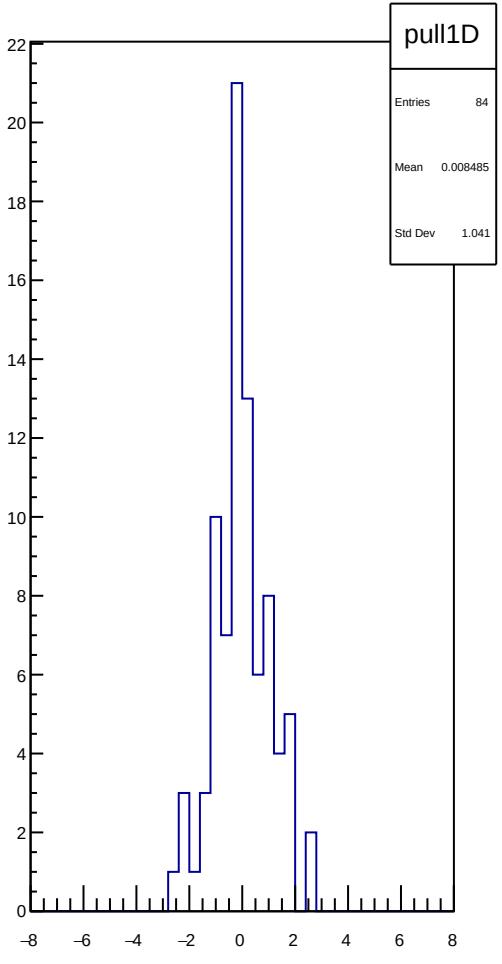

asym_atl1_reg_correction_rms vs run
χ² / ndf 1.513e+04 / 83
p0 609.3 ± 0.48
750
700
650
600
550
500

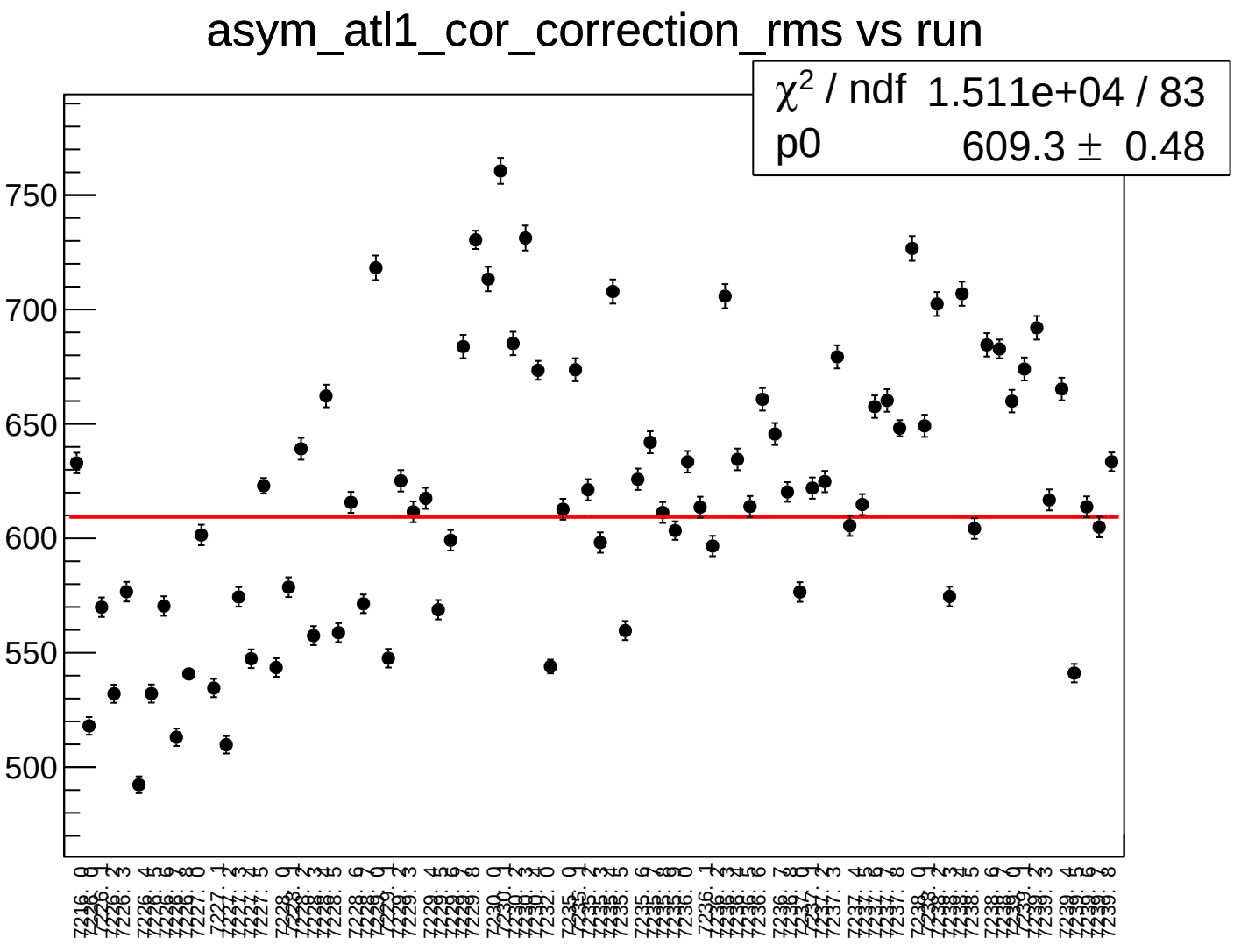

cor_asym_atl1_mean vs run
×10^3
χ² / ndf 95.93 / 83
p0 −85.43 ± 2589
pull
Entries 84
Mean −126.1
Std Dev 0

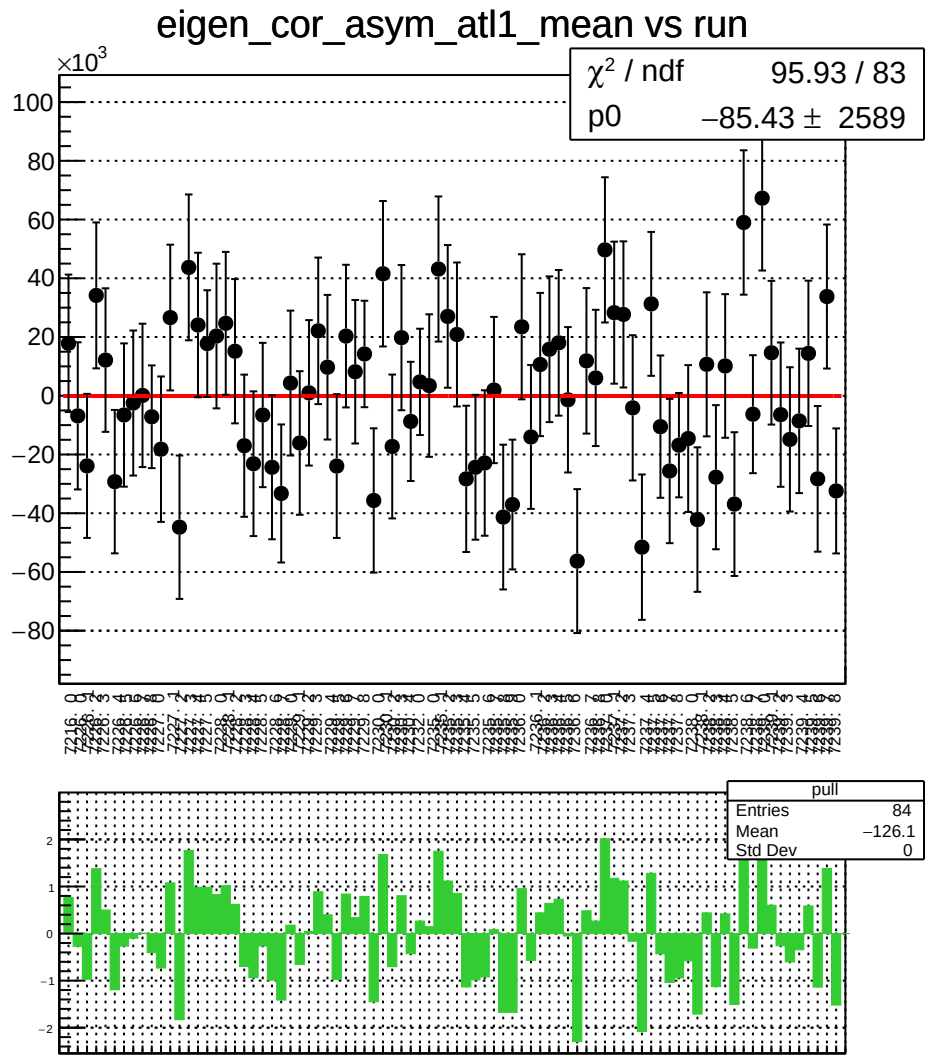

pull1D
Entries 84
Mean 0.005413
Std Dev 1.069

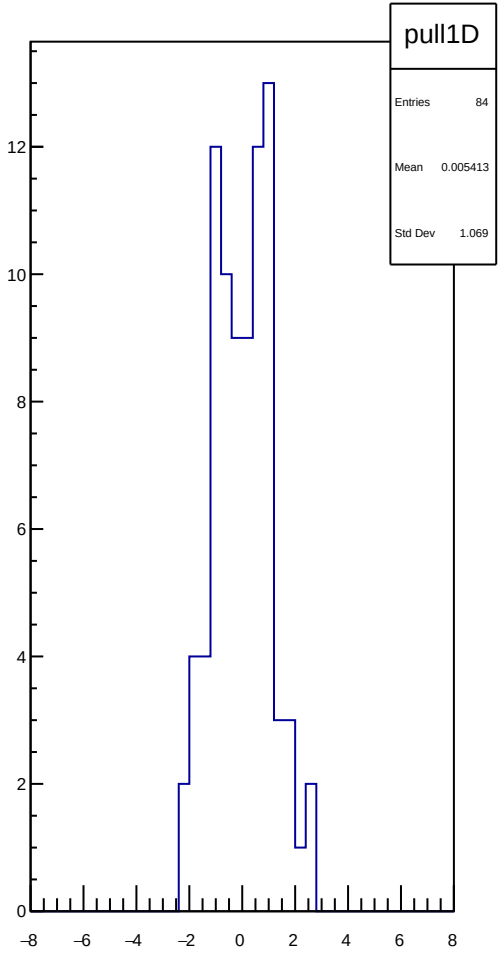

cor_asym_atl1_rms vs run
χ^2 / ndf 90.88 / 83
p0 2335 ± 1.831
2400
2380
2360
2340
2320
2300
2280

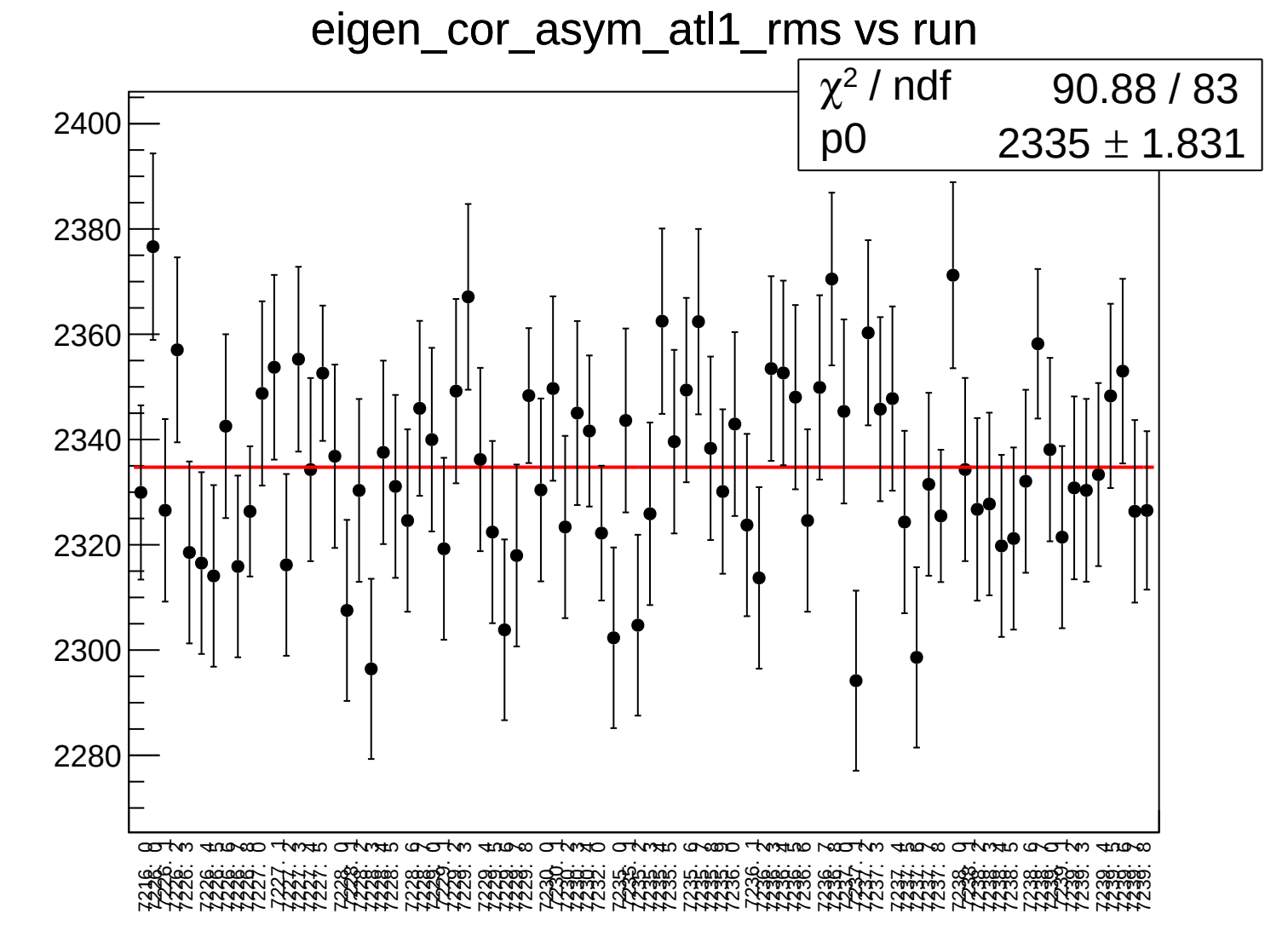

asym_atl1_cor_correction_mean vs run
χ² / ndf 91.08 / 83
p0 1139 ± 678.8
30000
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 162.6
Std Dev 0
3
2
1
0
−1
−2

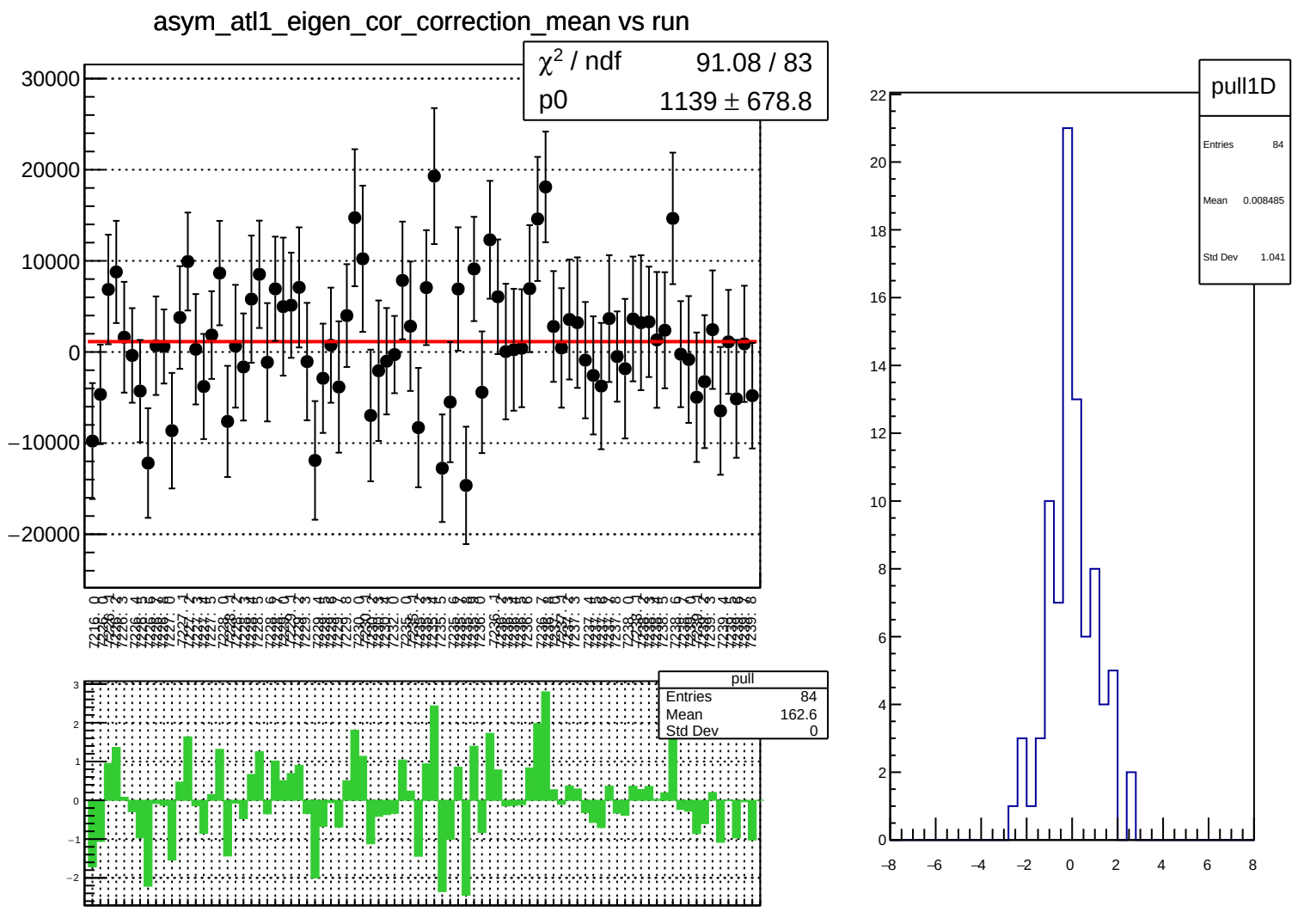

pull1D
Entries 84
Mean 0.008485
Std Dev 1.041
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

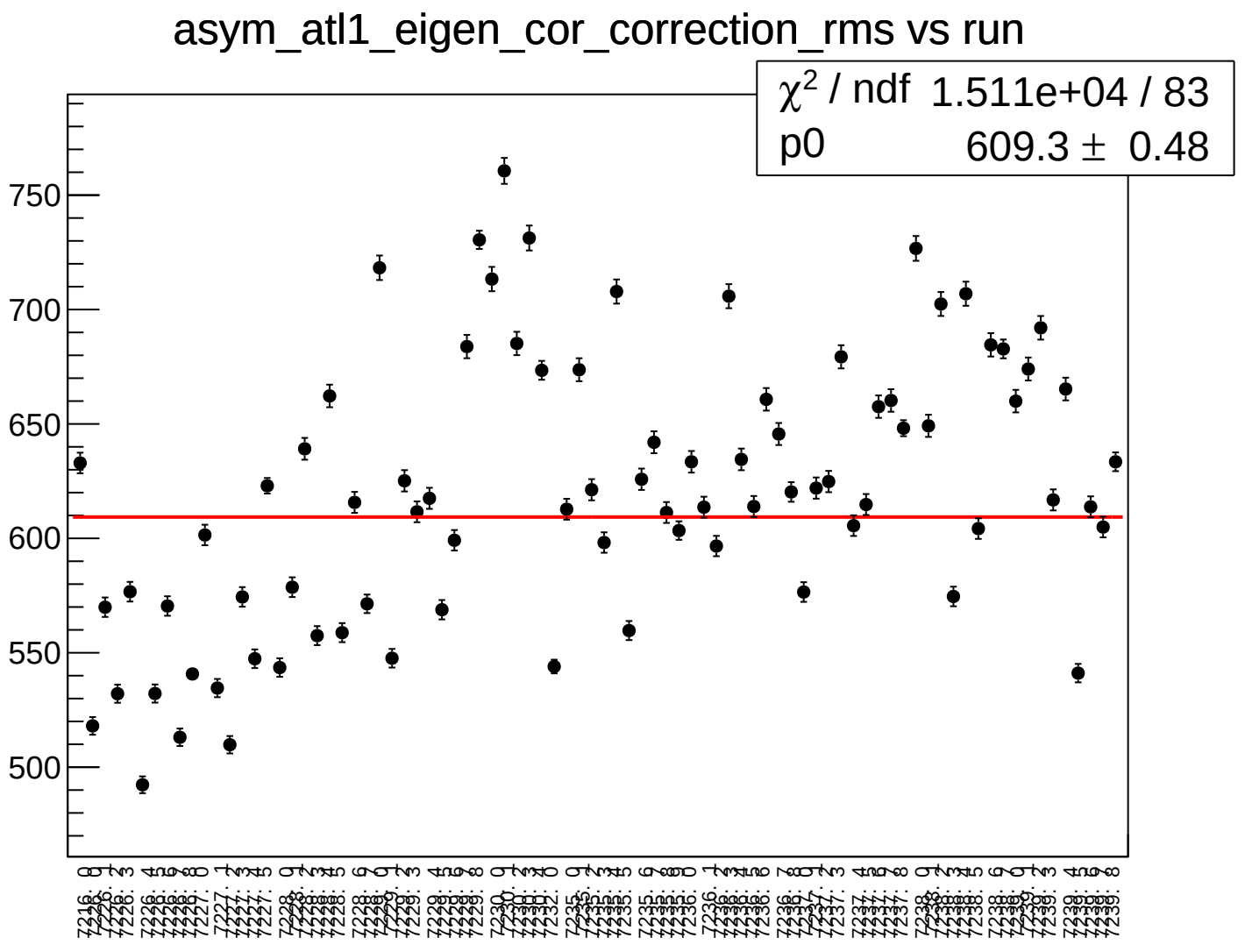

asym_atl1_cor_correction_rms vs run
χ² / ndf 1.511e+04 / 83
p0 609.3 ± 0.48
750
700
650
600
550
500

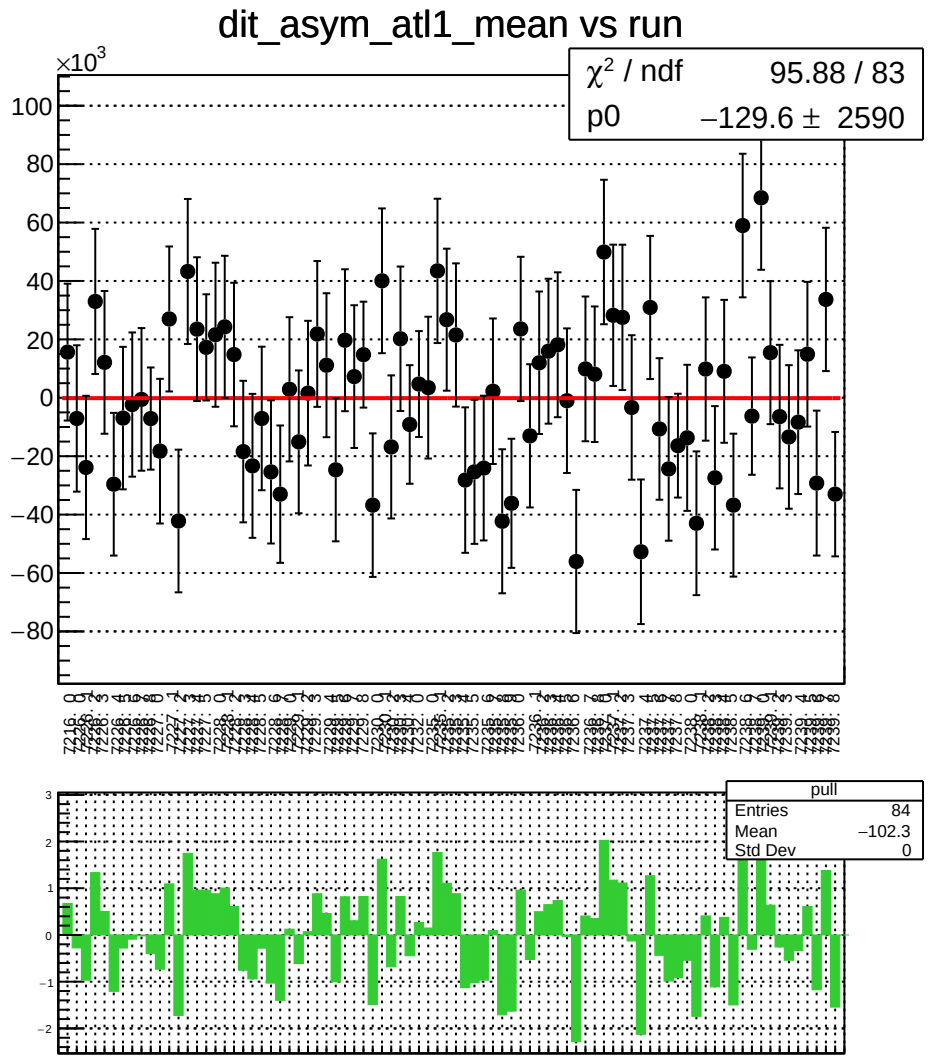

eigen_cor_asym_atl1_mean vs run
×10^3
χ² / ndf 95.93 / 83
p0 −85.43 ± 2589
pull
Entries 84
Mean −126.1
Std Dev 0

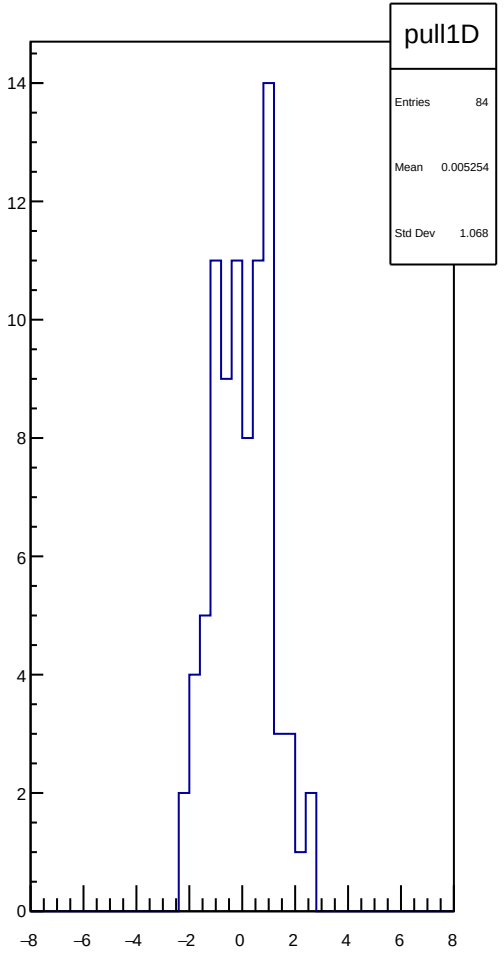

pull1D
Entries 84
Mean 0.005413
Std Dev 1.069

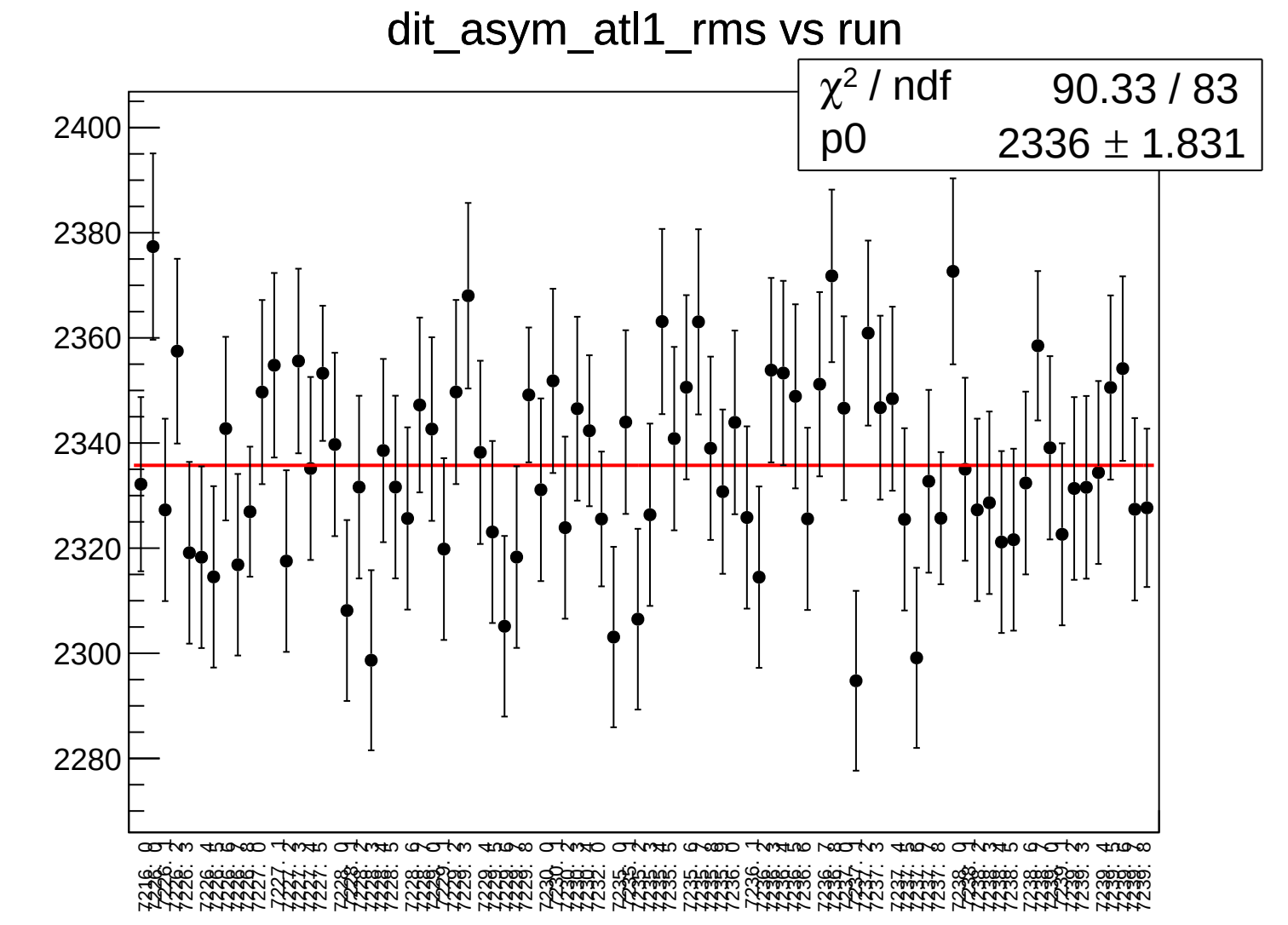

eigen_cor_asym_atl1_rms vs run
χ^2 / ndf 90.88 / 83
p0 2335 ± 1.831
2400
2380
2360
2340
2320
2300
2280

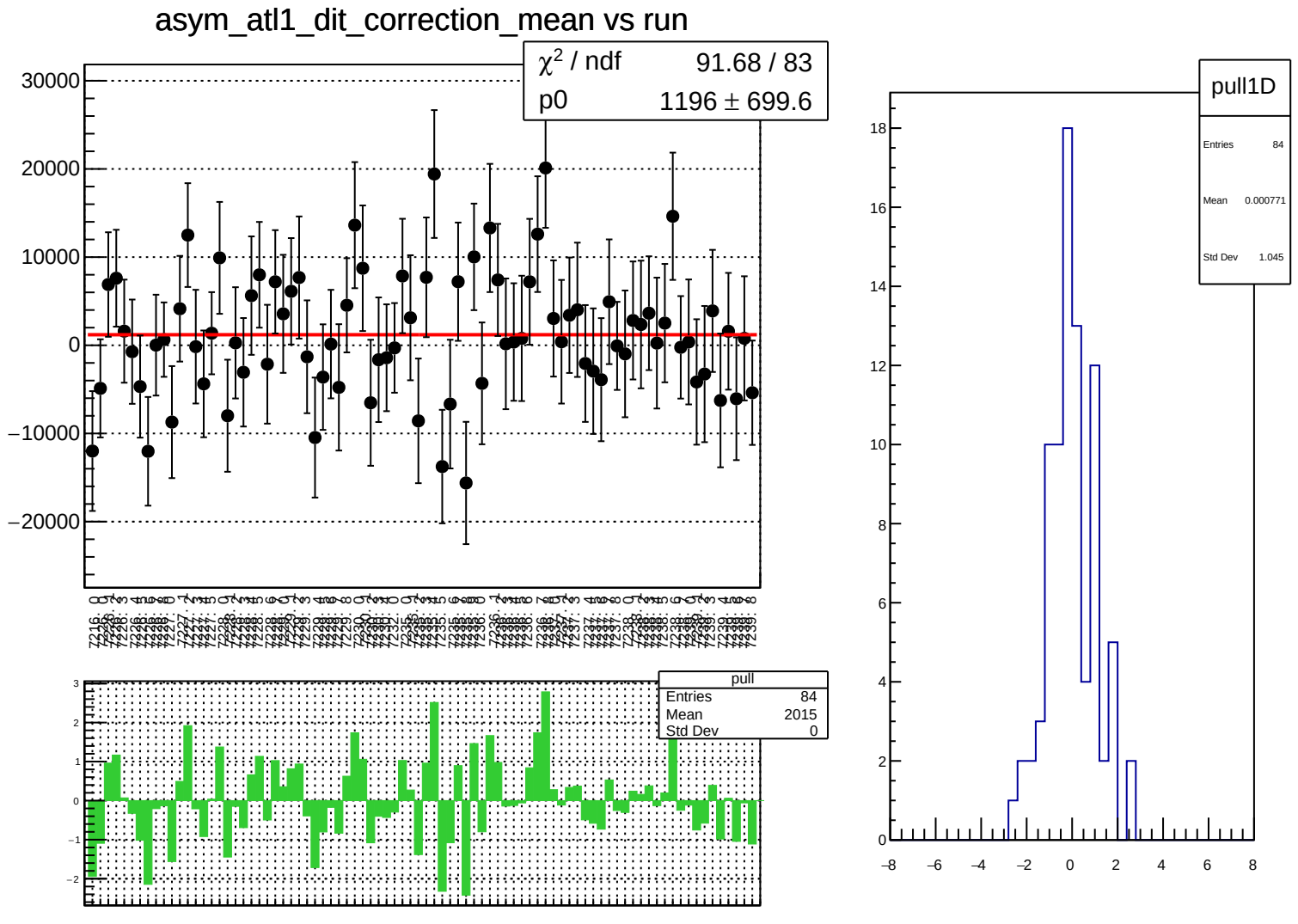

asym_atl1_eigen_cor_correction_mean vs run
χ² / ndf 91.08 / 83
p0 1139 ± 678.8
30000
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 162.6
Std Dev 0
pull1D
Entries 84
Mean 0.008485
Std Dev 1.041
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

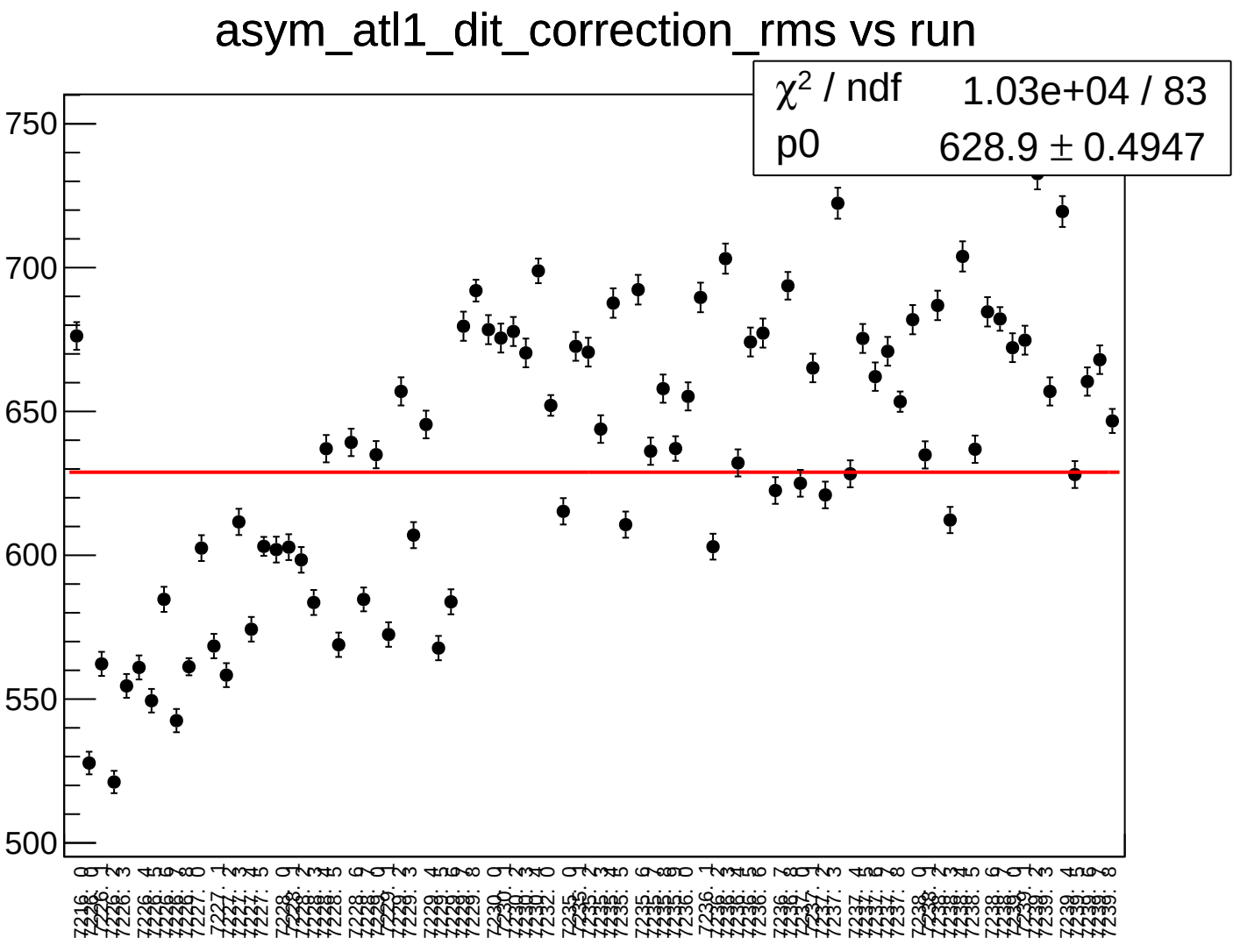

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 1.511e+04 / 83
p0 609.3 ± 0.48
750
700
650
600
550
500

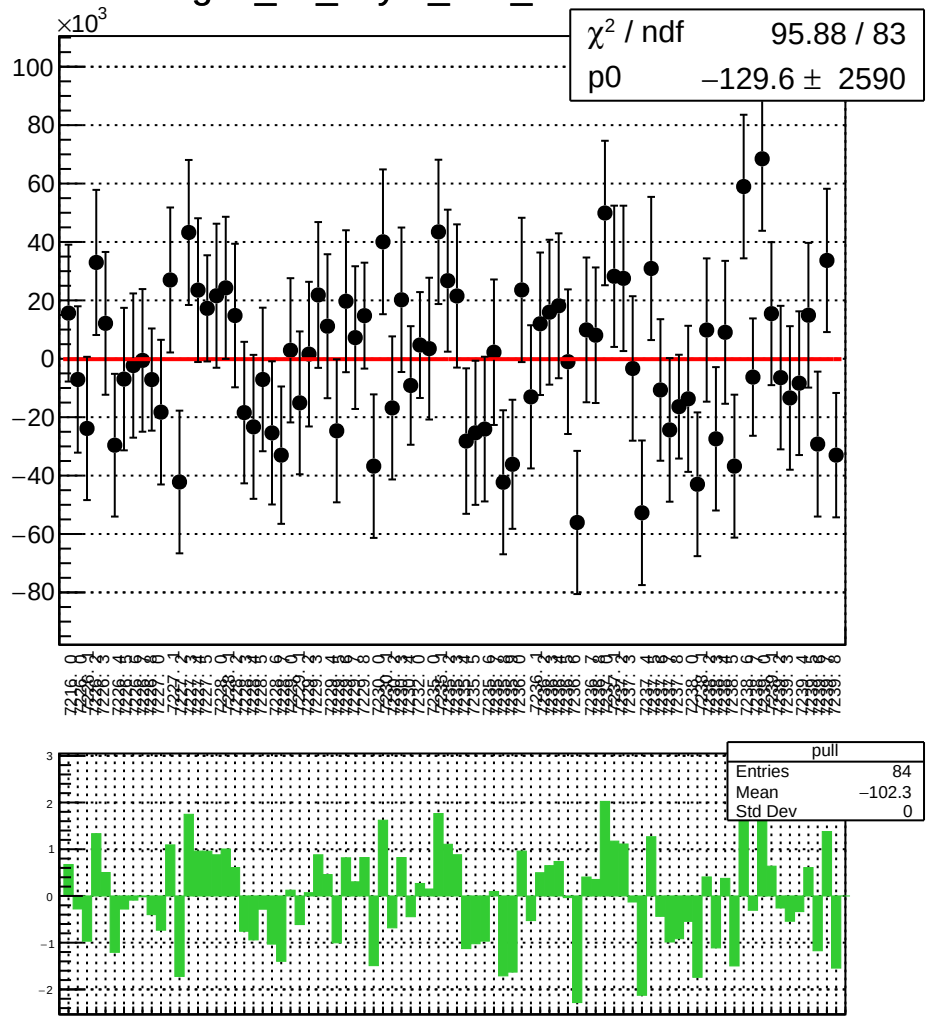

dit_asym_atl1_mean vs run
×10^3
χ² / ndf 95.88 / 83
p0 −129.6 ± 2590
pull
Entries 84
Mean −102.3
Std Dev 0

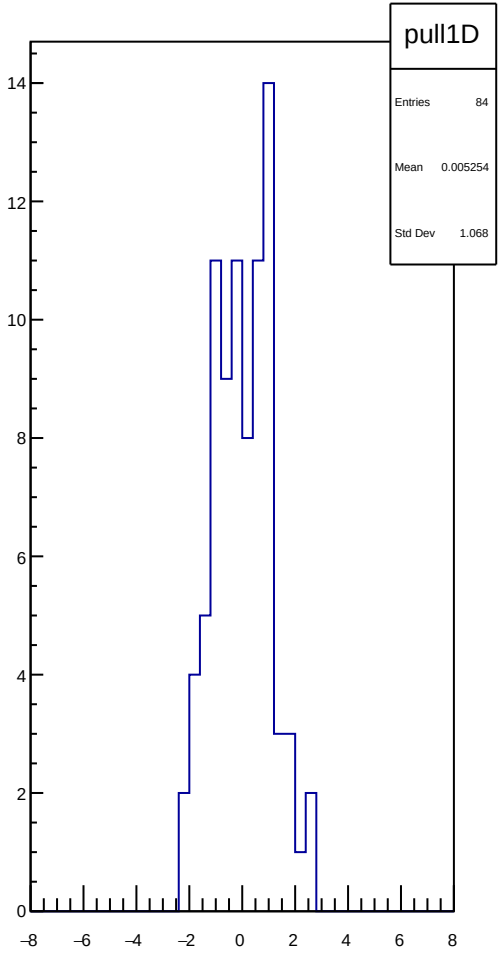

pull1D
Entries 84
Mean 0.005254
Std Dev 1.068

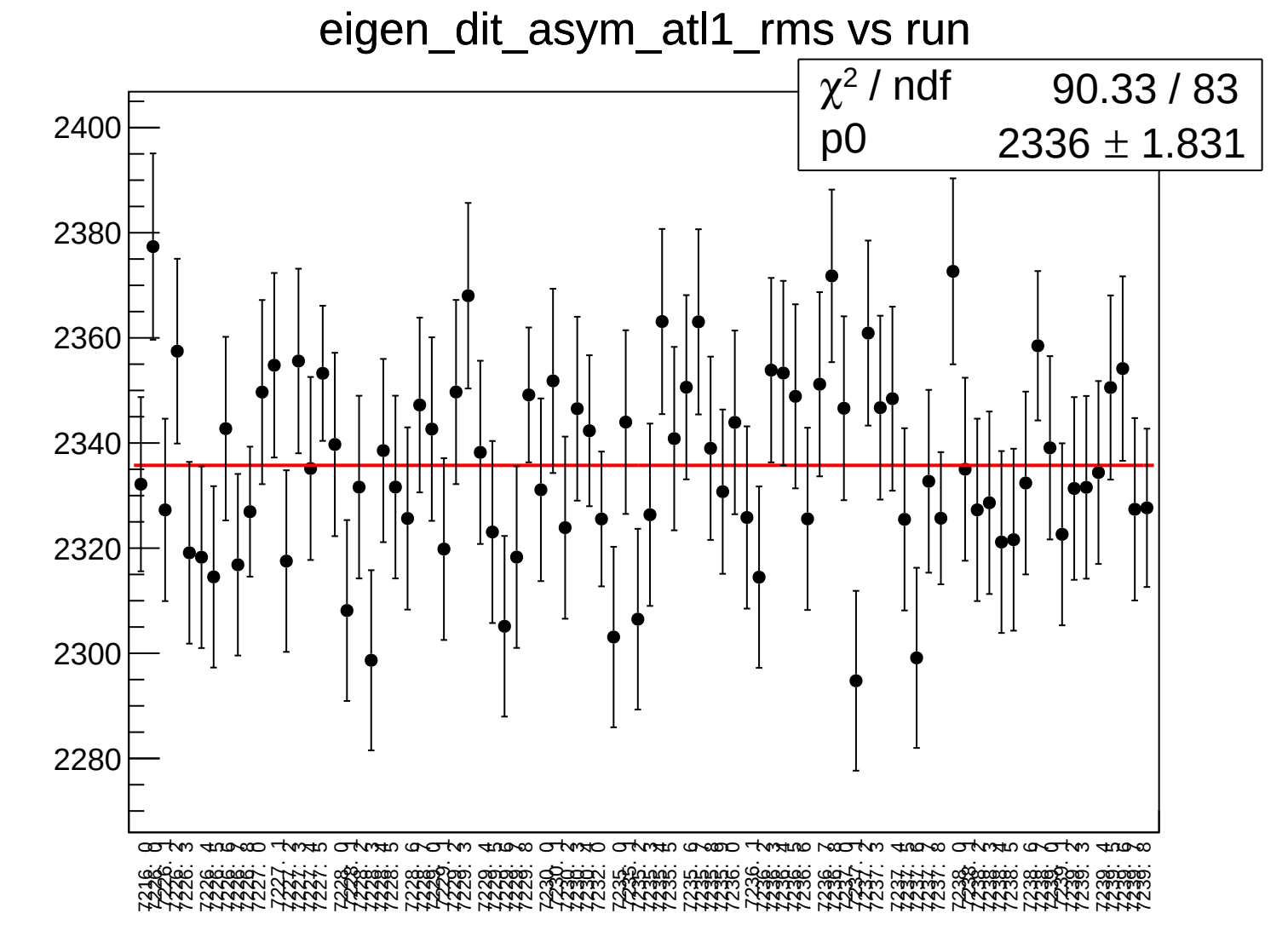

dit_asym_atl1_rms vs run
χ^2 / ndf 90.33 / 83
p0 2336 ± 1.831
2400
2380
2360
2340
2320
2300
2280

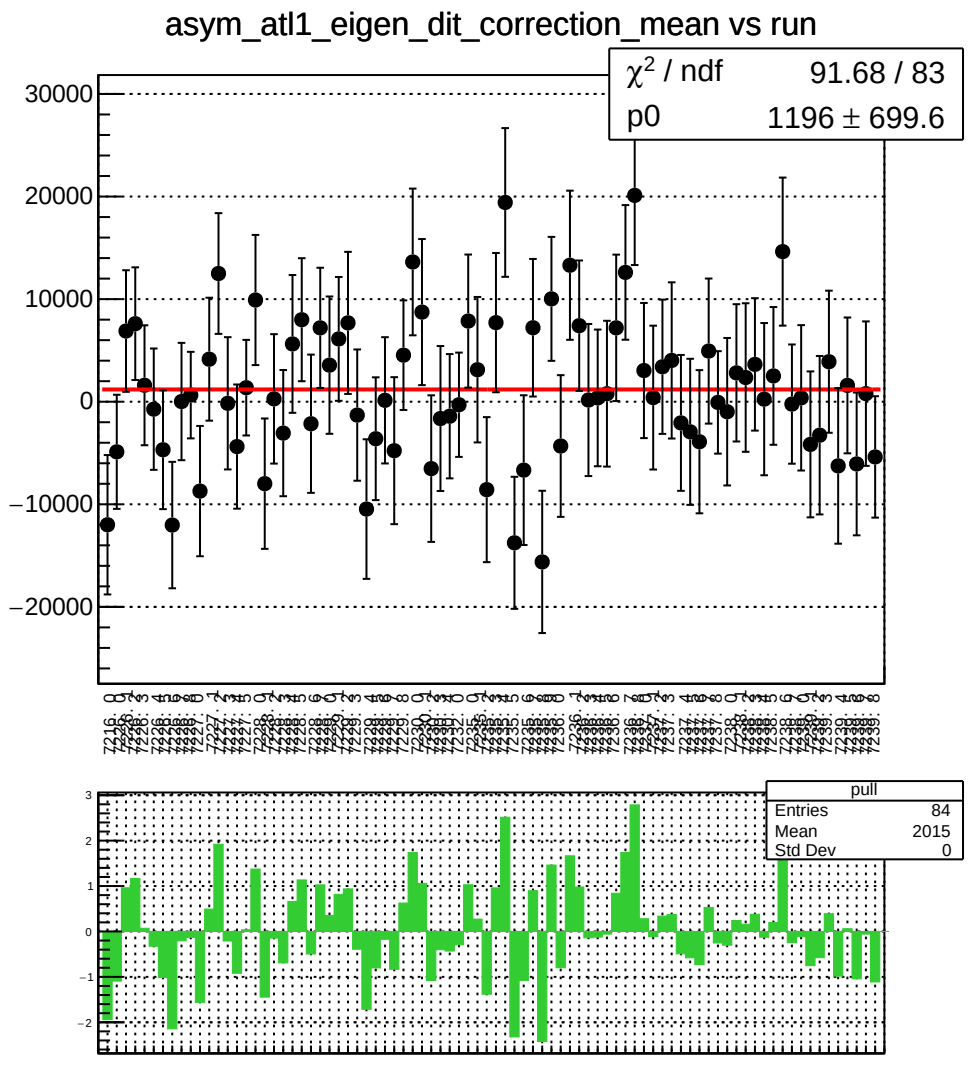

asym_atl1_dit_correction_mean vs run
χ² / ndf 91.68 / 83
p0 1196 ± 699.6
pull
Entries 84
Mean 2015
Std Dev 0
pull1D
Entries 84
Mean 0.000771
Std Dev 1.045

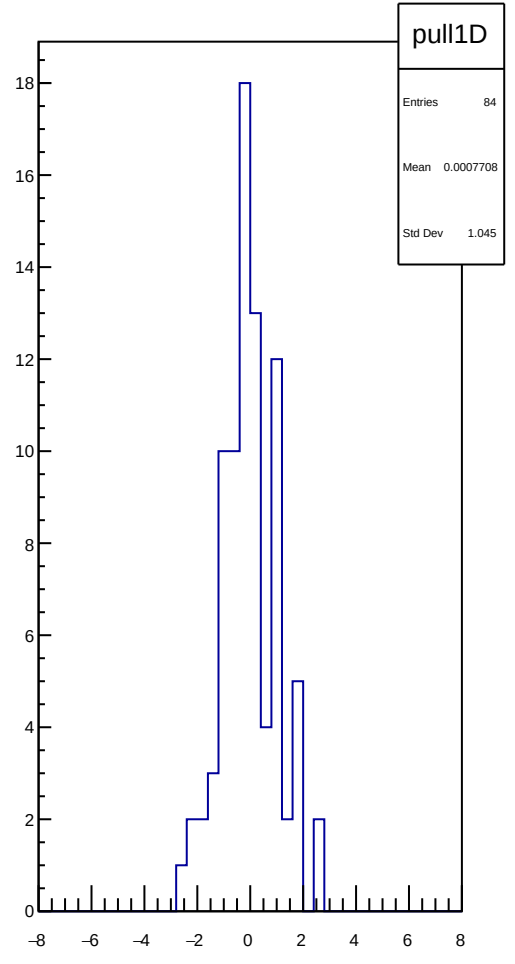

asym_atl1_dit_correction_rms vs run
χ² / ndf 1.03e+04 / 83
p0 628.9 ± 0.4947
750
700
650
600
550
500

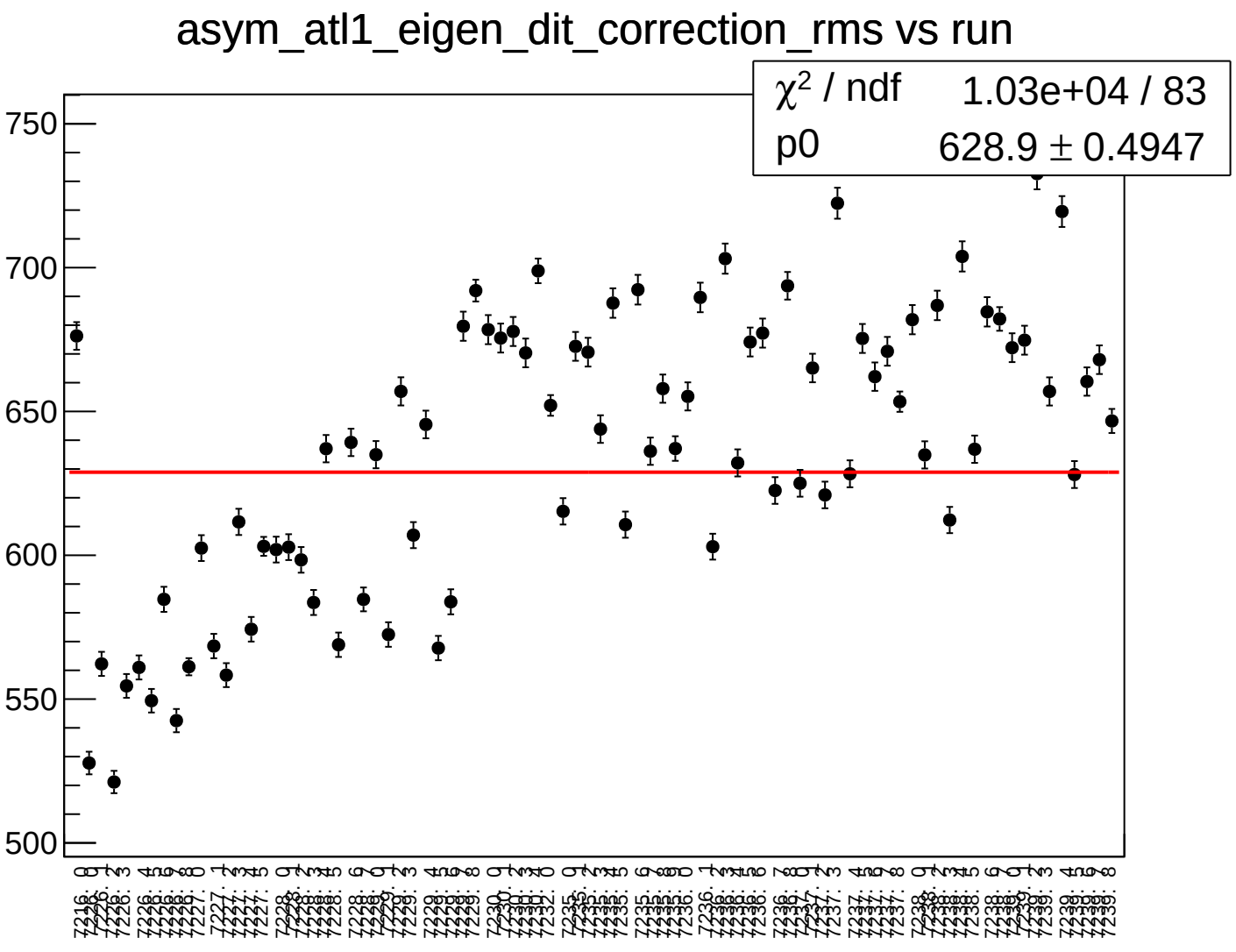

eigen_dit_asym_atl1_mean vs run
χ² / ndf 95.88 / 83
p0 −129.6 ± 2590
pull
Entries 84
Mean −102.3
Std Dev 0

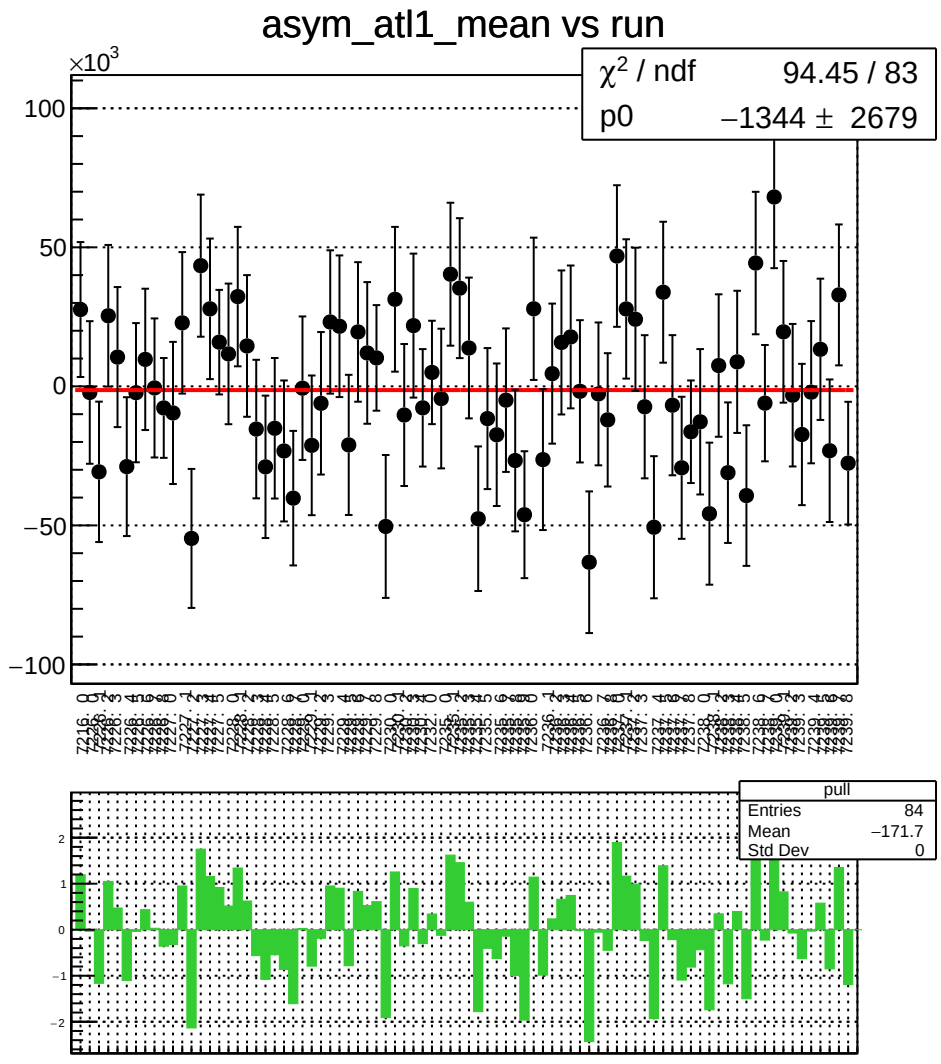

pull1D
Entries 84
Mean 0.005254
Std Dev 1.068

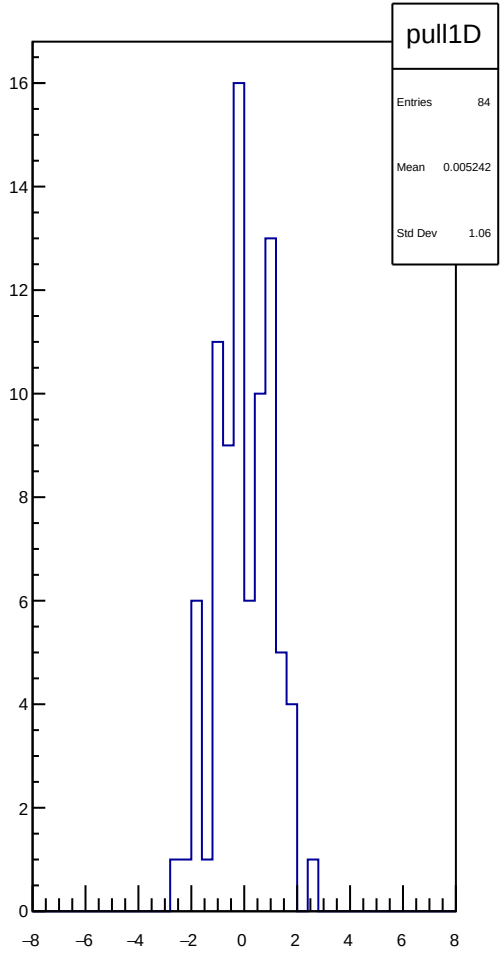

eigen_dit_asym_atl1_rms vs run
χ^2 / ndf 90.33 / 83
p0 2336 ± 1.831
2400
2380
2360
2340
2320
2300
2280

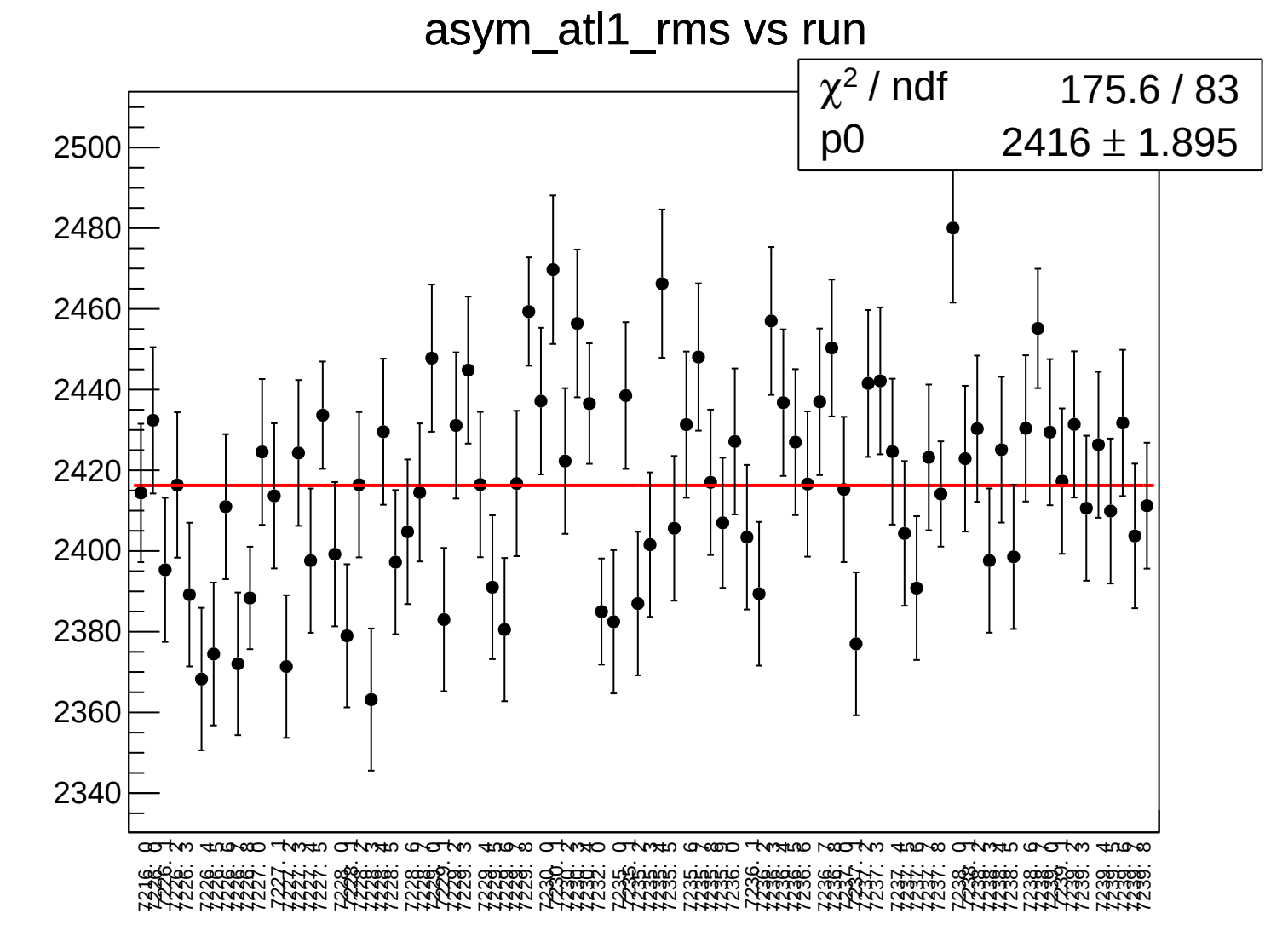

asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 91.68 / 83
p0 1196 ± 699.6
pull
Entries 84
Mean 2015
Std Dev 0

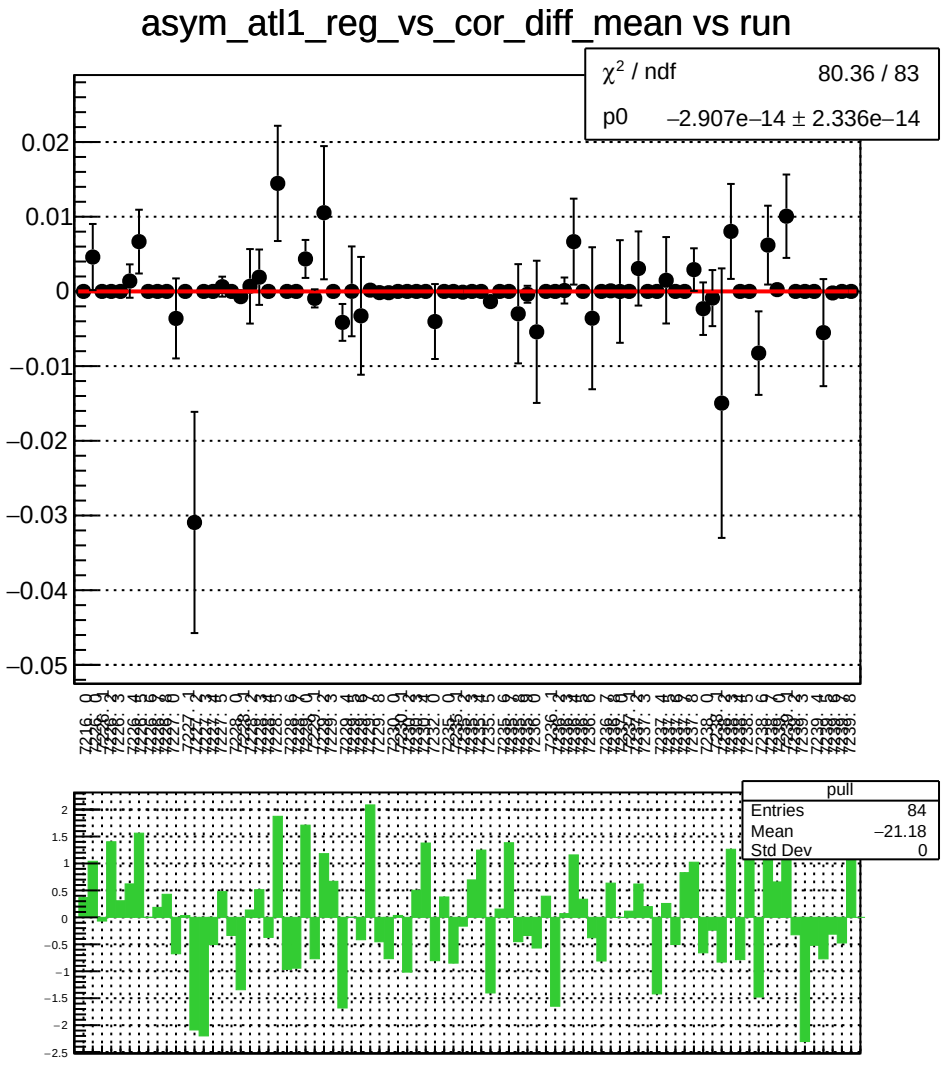

pull1D
Entries 84
Mean 0.0007708
Std Dev 1.045

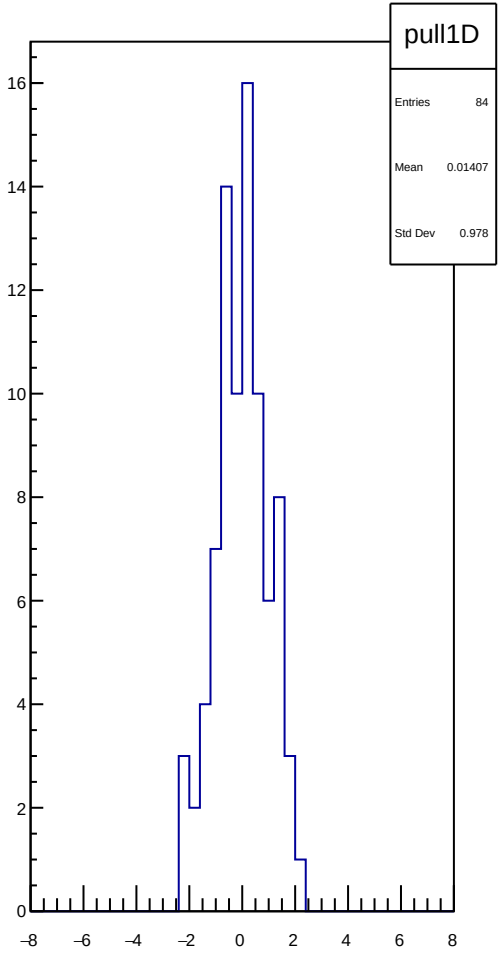

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 1.03e+04 / 83
p0 628.9 ± 0.4947
750
700
650
600
550
500

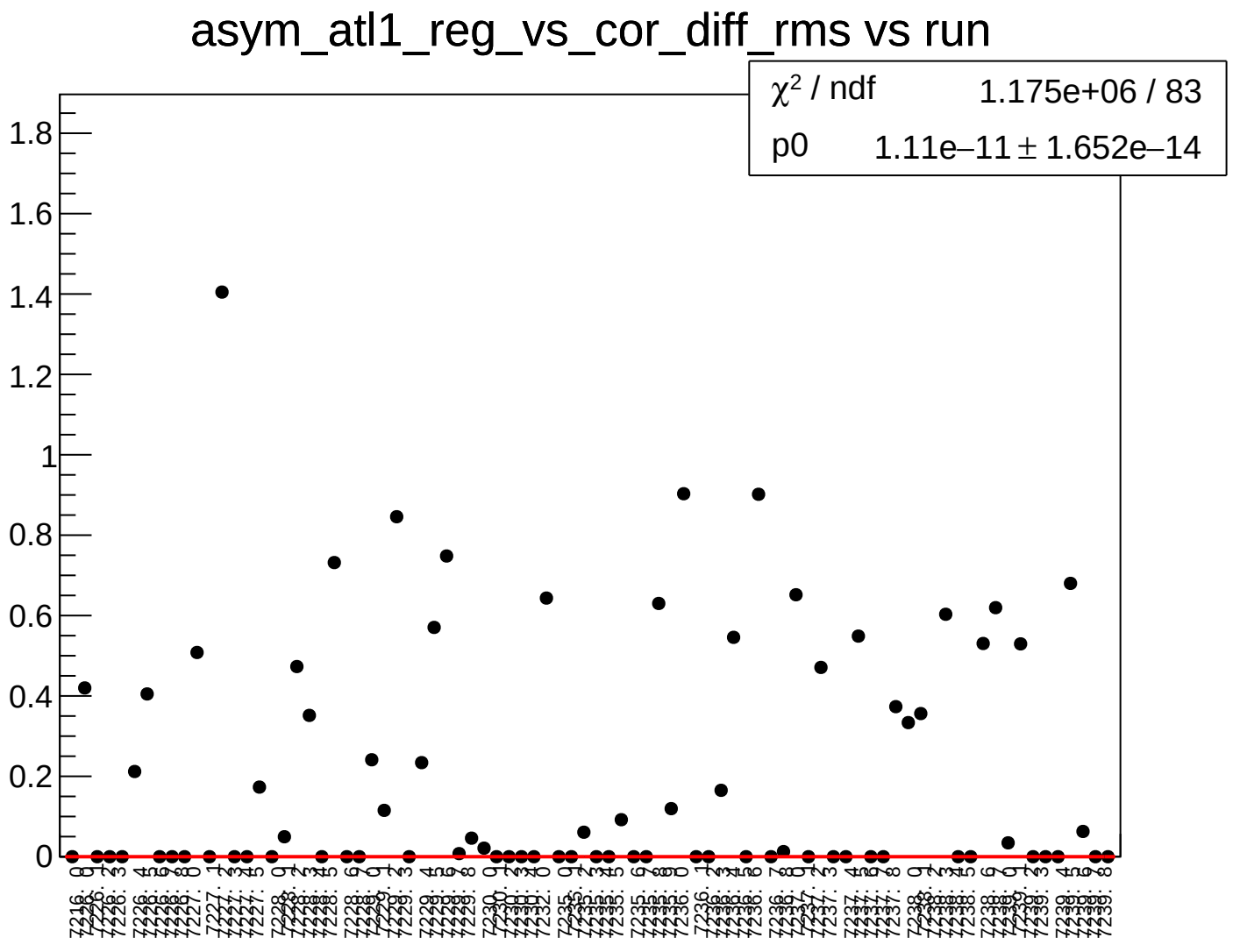

asym_atl1_mean vs run
×10^3
χ² / ndf 94.45 / 83
p0 −1344 ± 2679
100
50
0
−50
−100
pull
Entries 84
Mean −171.7
Std Dev 0
2
1
0
−1
−2

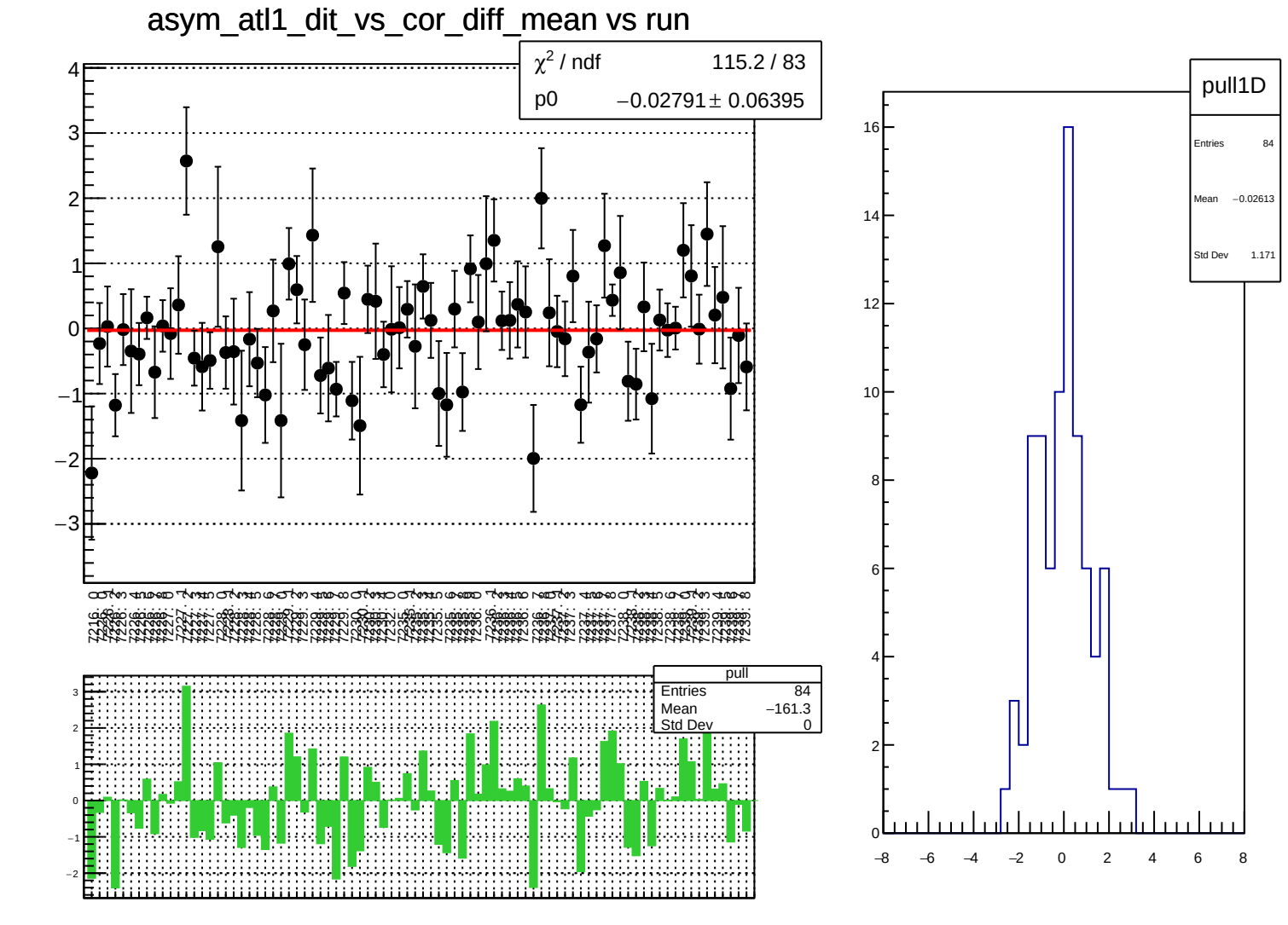

pull1D
Entries 84
Mean 0.005242
Std Dev 1.06
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

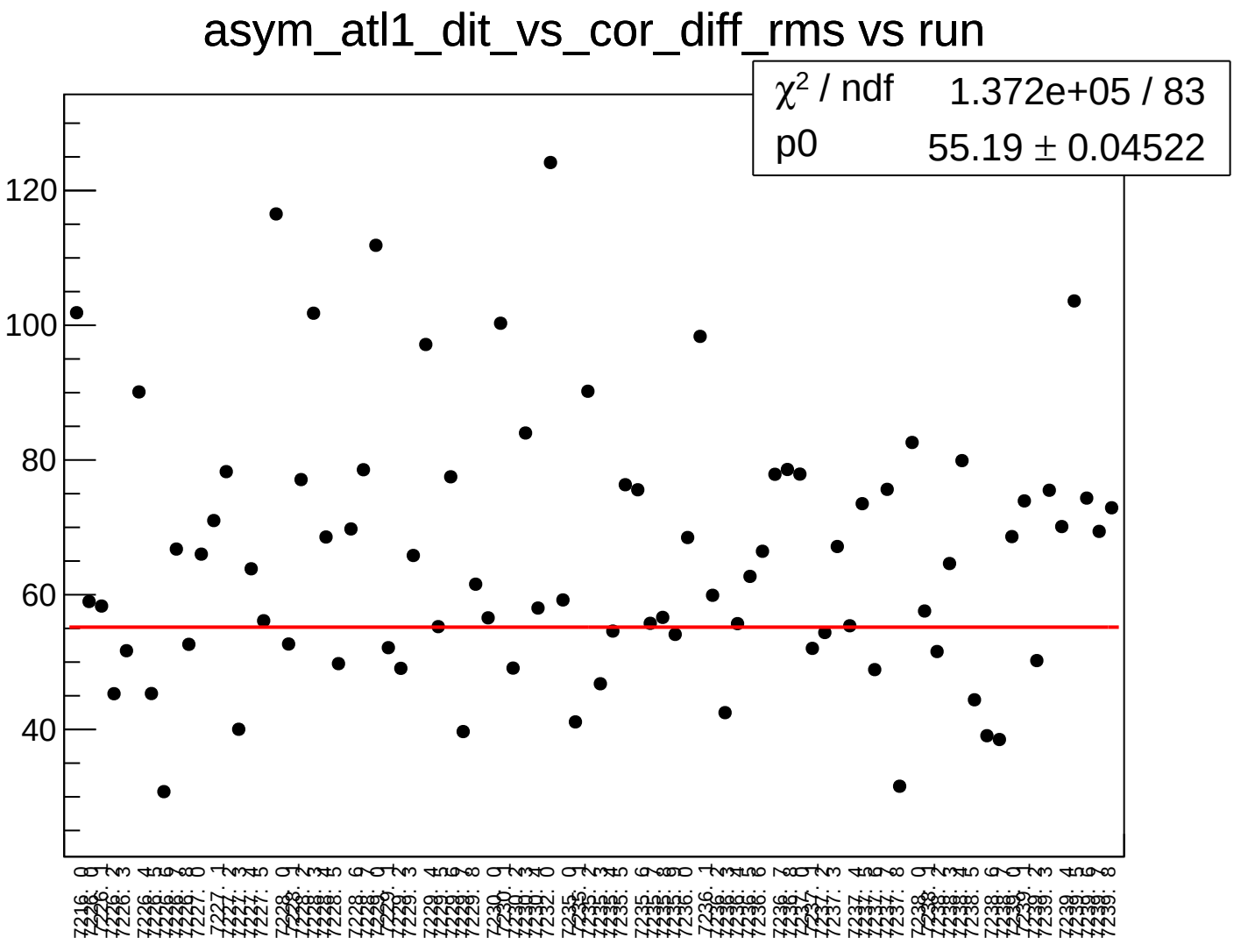

asym_atl1_rms vs run
χ^2 / ndf 175.6 / 83
p0 2416 ± 1.895
2500
2480
2460
2440
2420
2400
2380
2360
2340

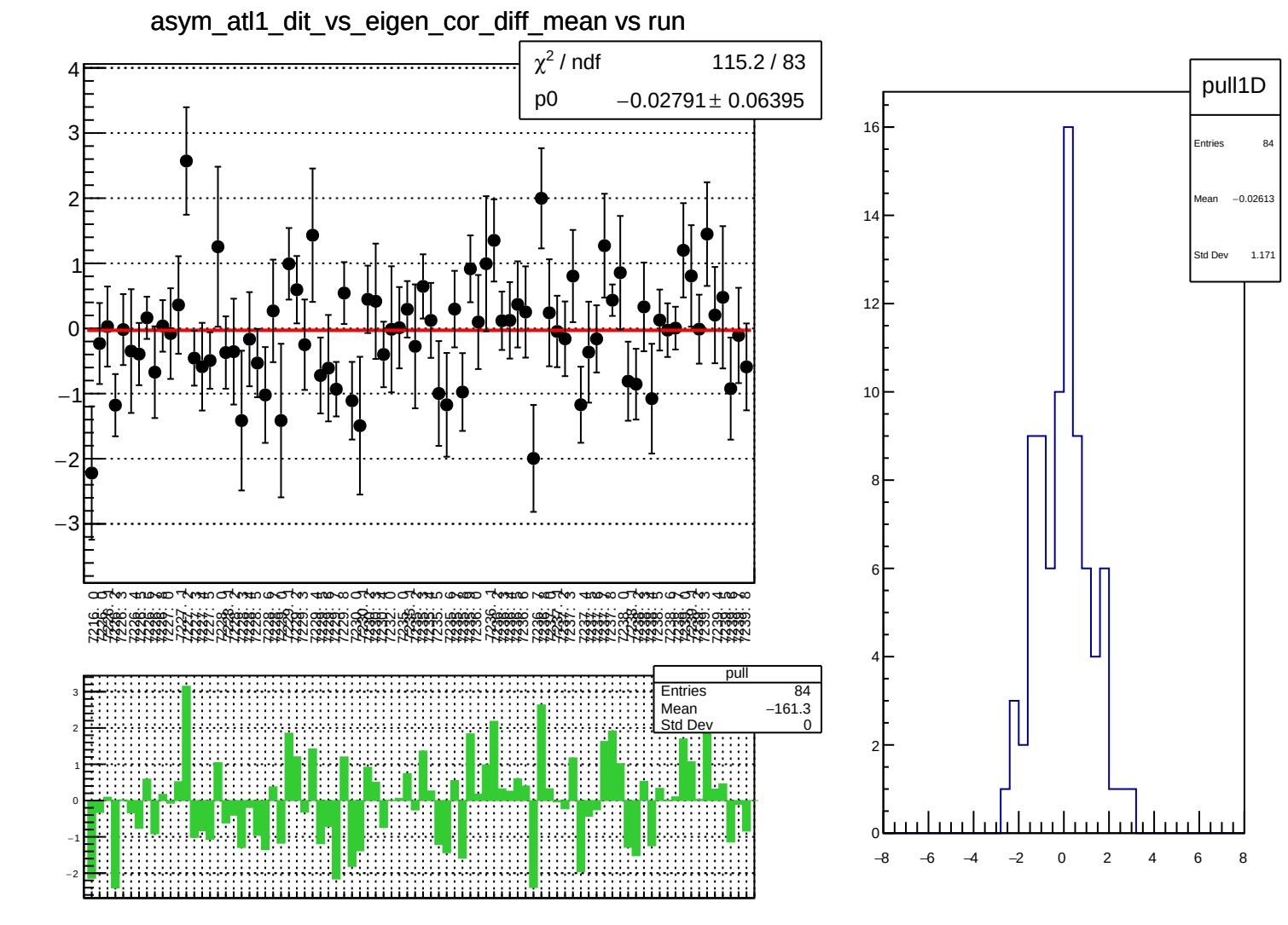

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 80.36 / 83
p0 −2.907e−14 ± 2.336e−14
pull
Entries 84
Mean −21.18
Std Dev 0

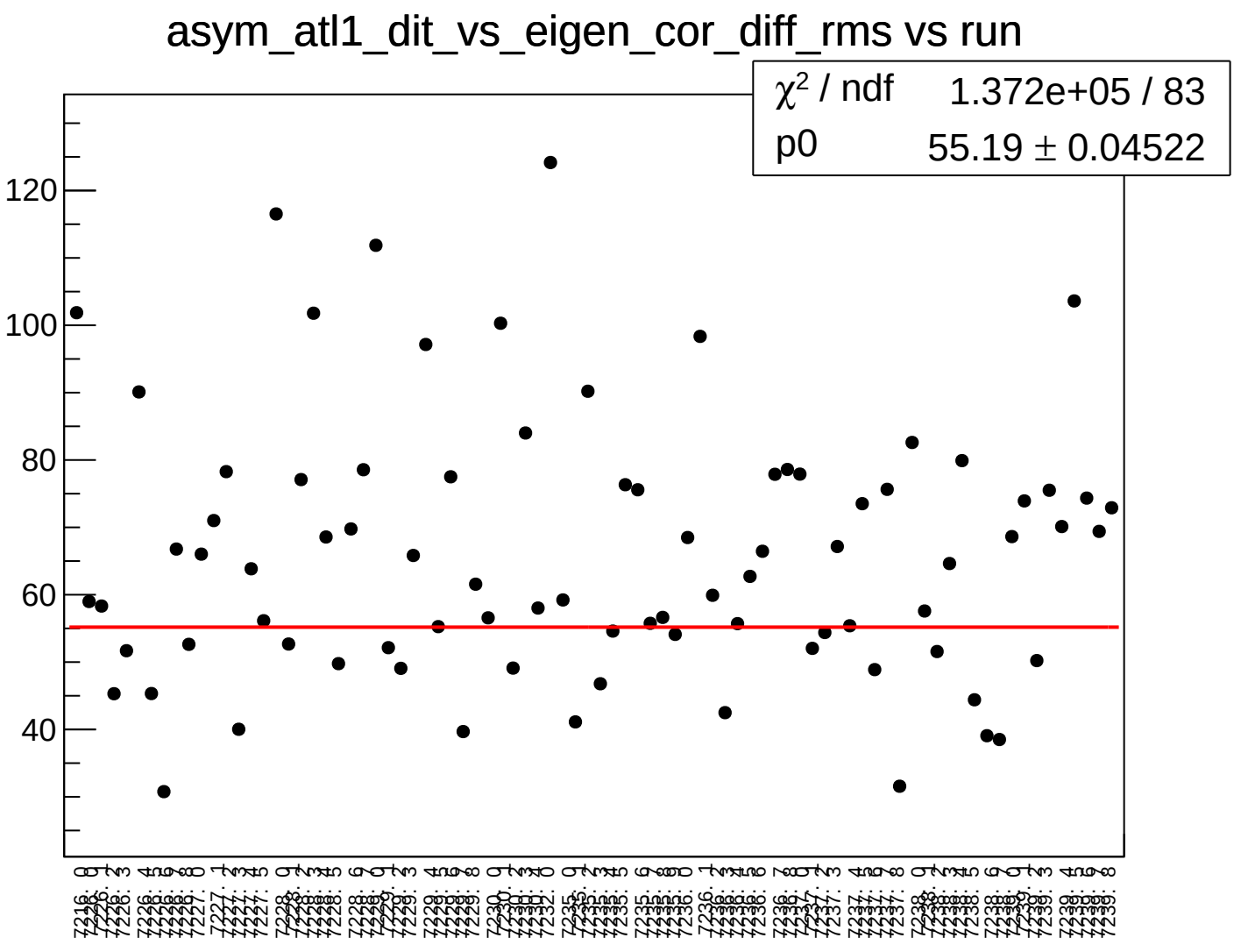

pull1D
Entries 84
Mean 0.01407
Std Dev 0.978

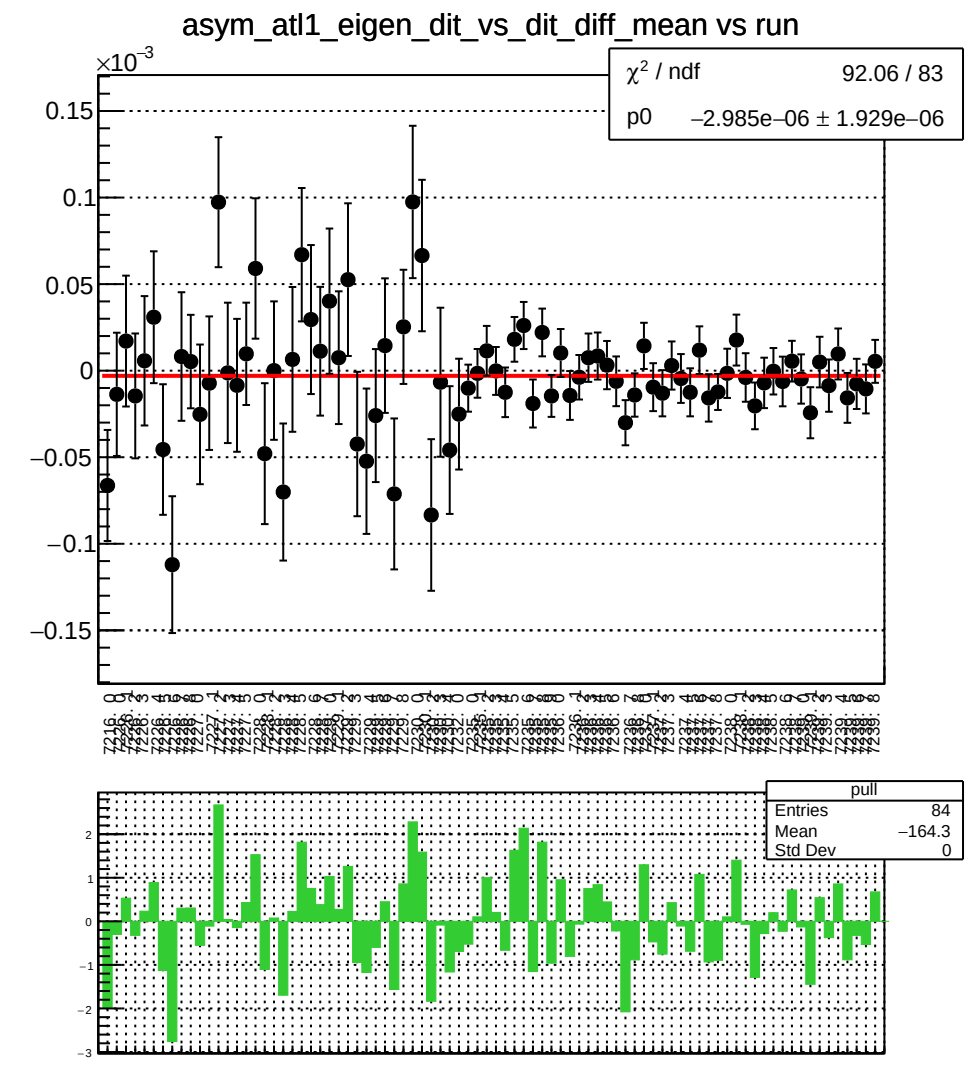

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.175e+06 / 83
p0 1.11e−11 ± 1.652e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

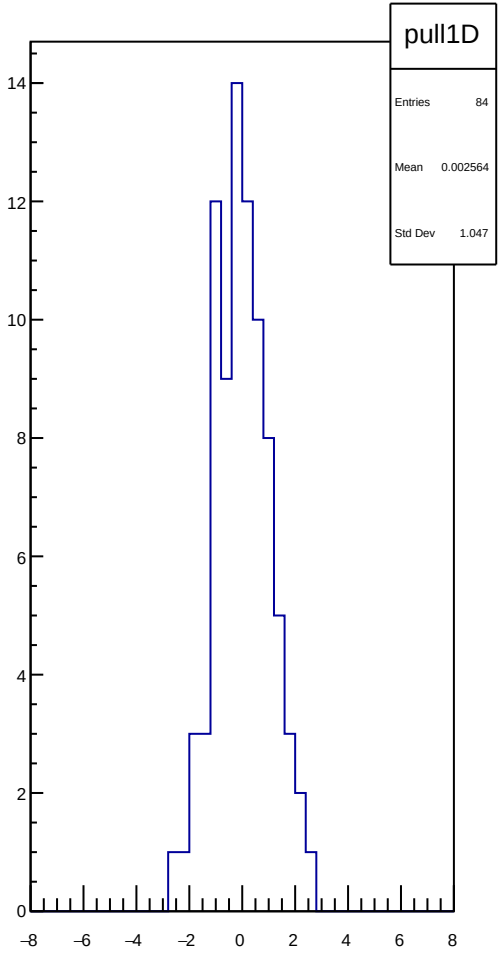

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 115.2 / 83
p0 −0.02791 ± 0.06395
pull
Entries 84
Mean −161.3
Std Dev 0
pull1D
Entries 84
Mean −0.02613
Std Dev 1.171

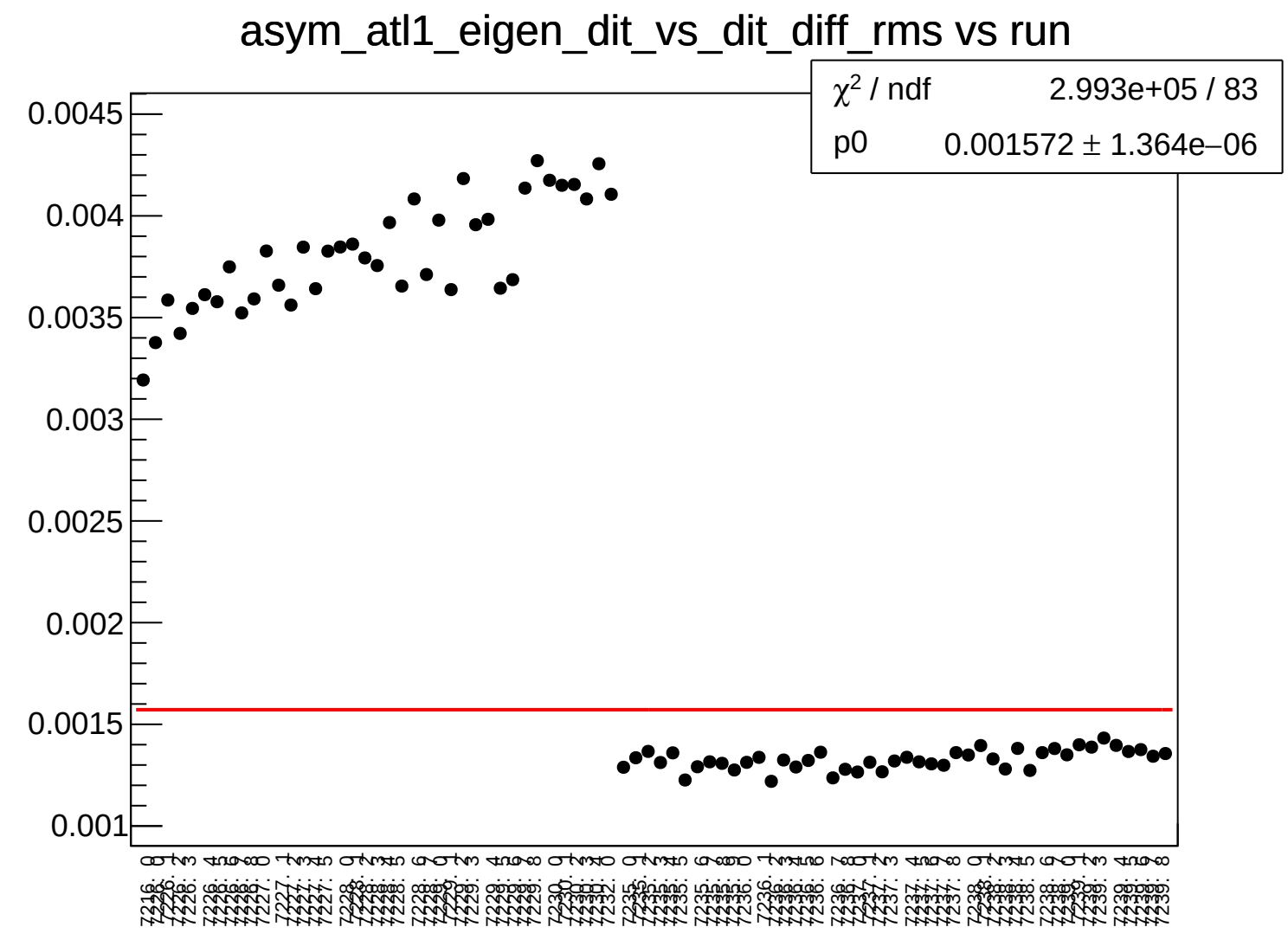

asym_atl1_dit_vs_cor_diff_rms vs run
χ² / ndf 1.372e+05 / 83
p0 55.19 ± 0.04522
120
100
80
60
40

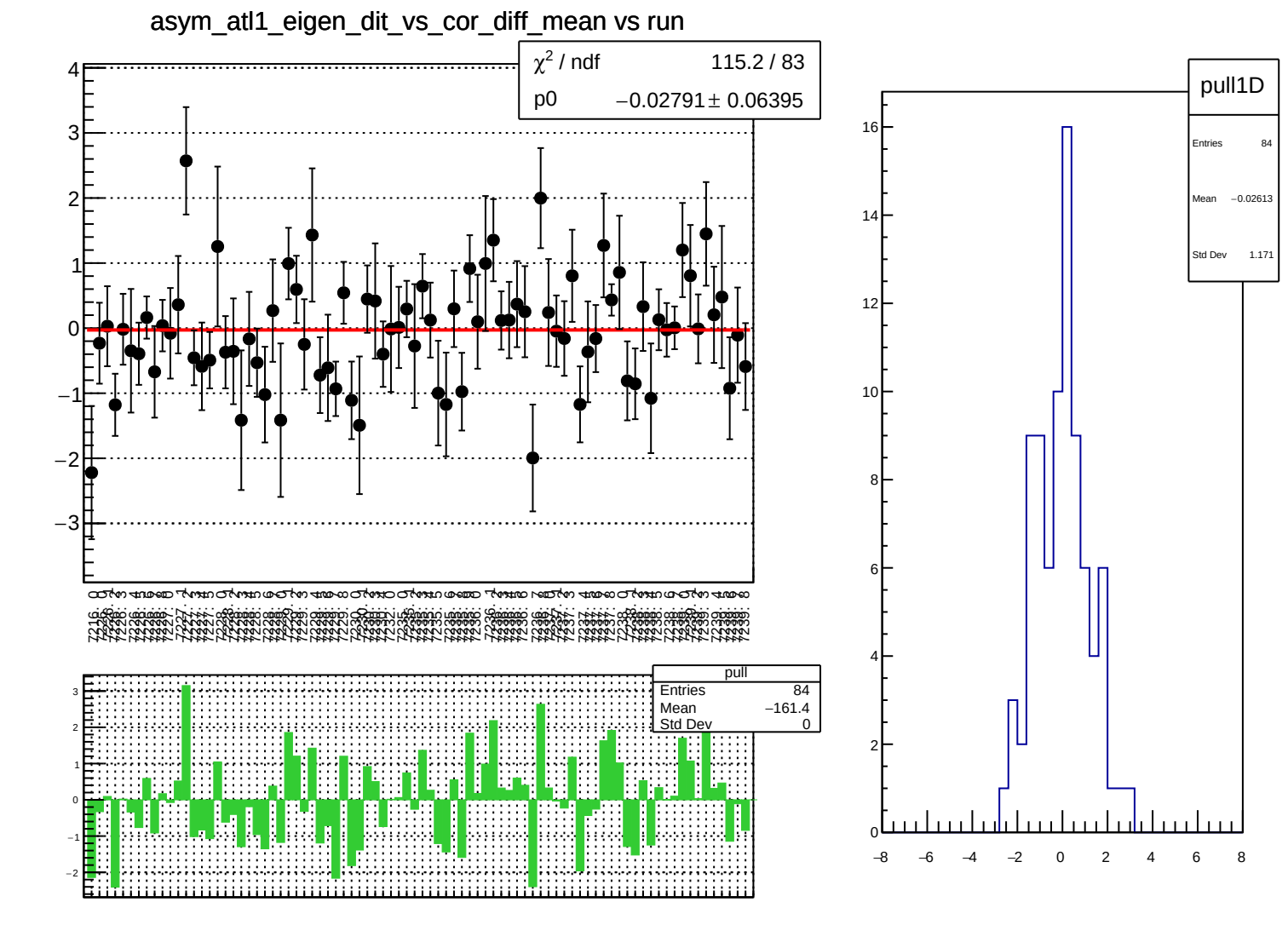

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 115.2 / 83
p0 −0.02791 ± 0.06395
pull
Entries 84
Mean −161.3
Std Dev 0
pull1D
Entries 84
Mean −0.02613
Std Dev 1.171

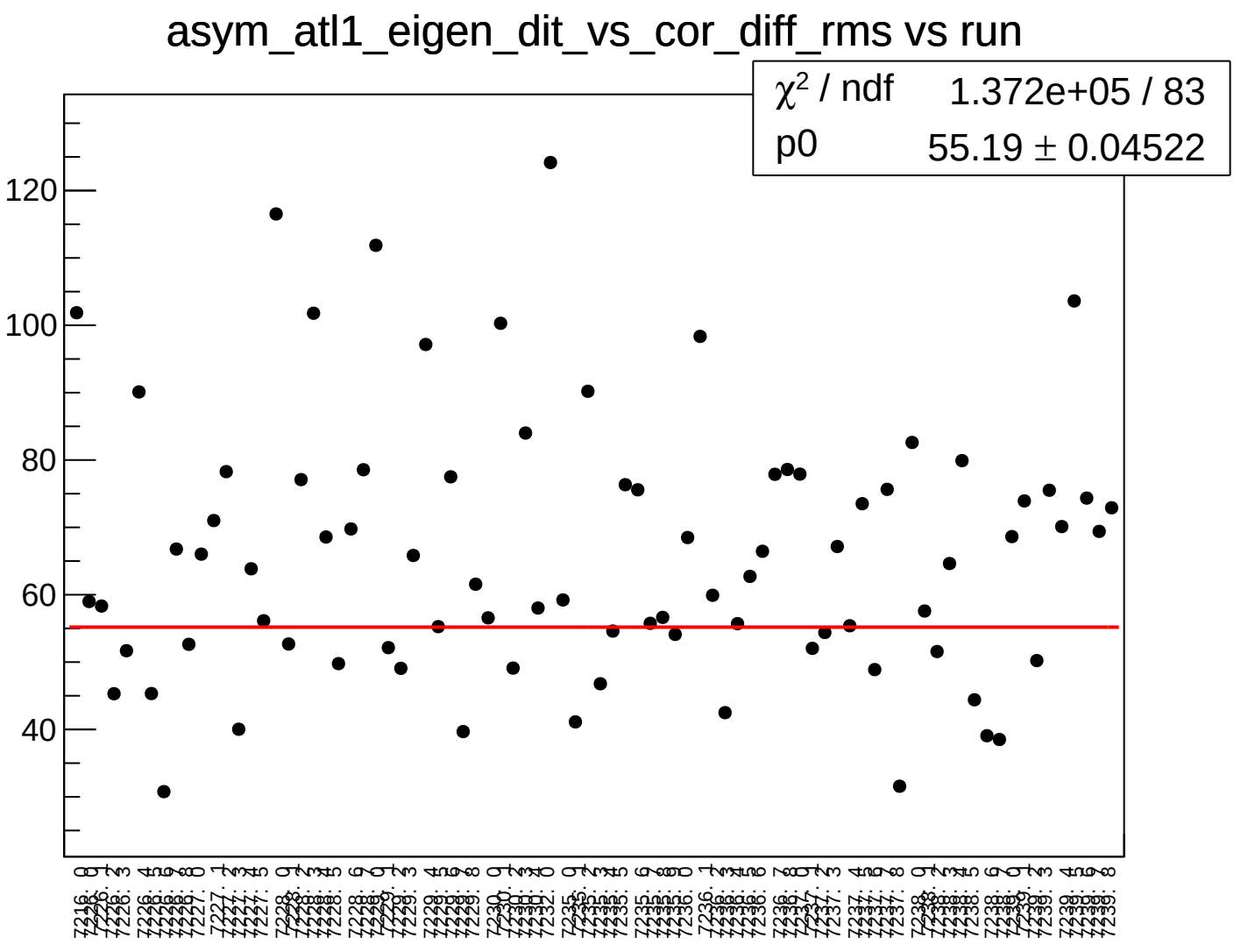

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.372e+05 / 83
p0 55.19 ± 0.04522
120
100
80
60
40

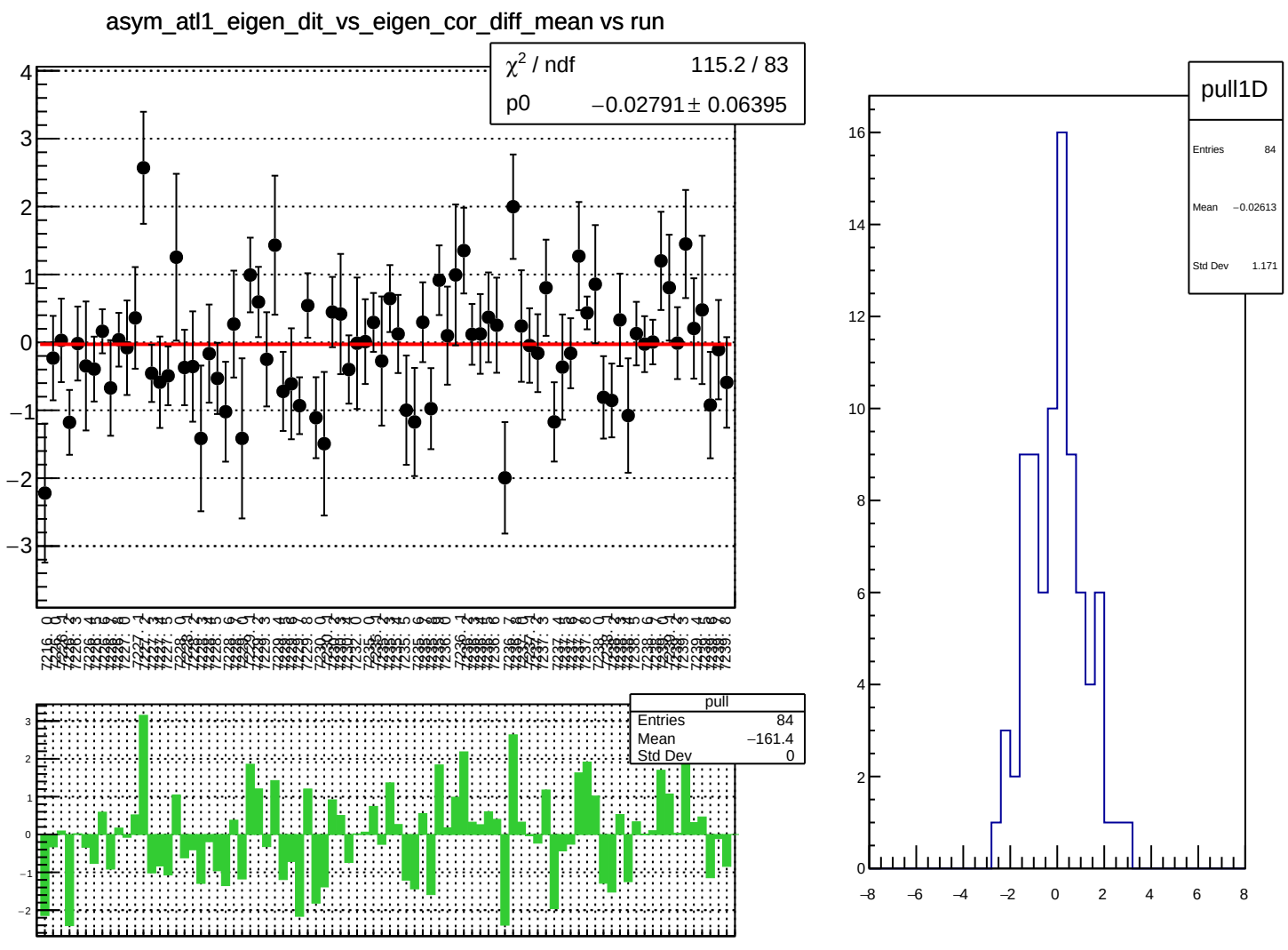

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.06 / 83
p0 −2.985e−06 ± 1.929e−06
pull
Entries 84
Mean −164.3
Std Dev 0

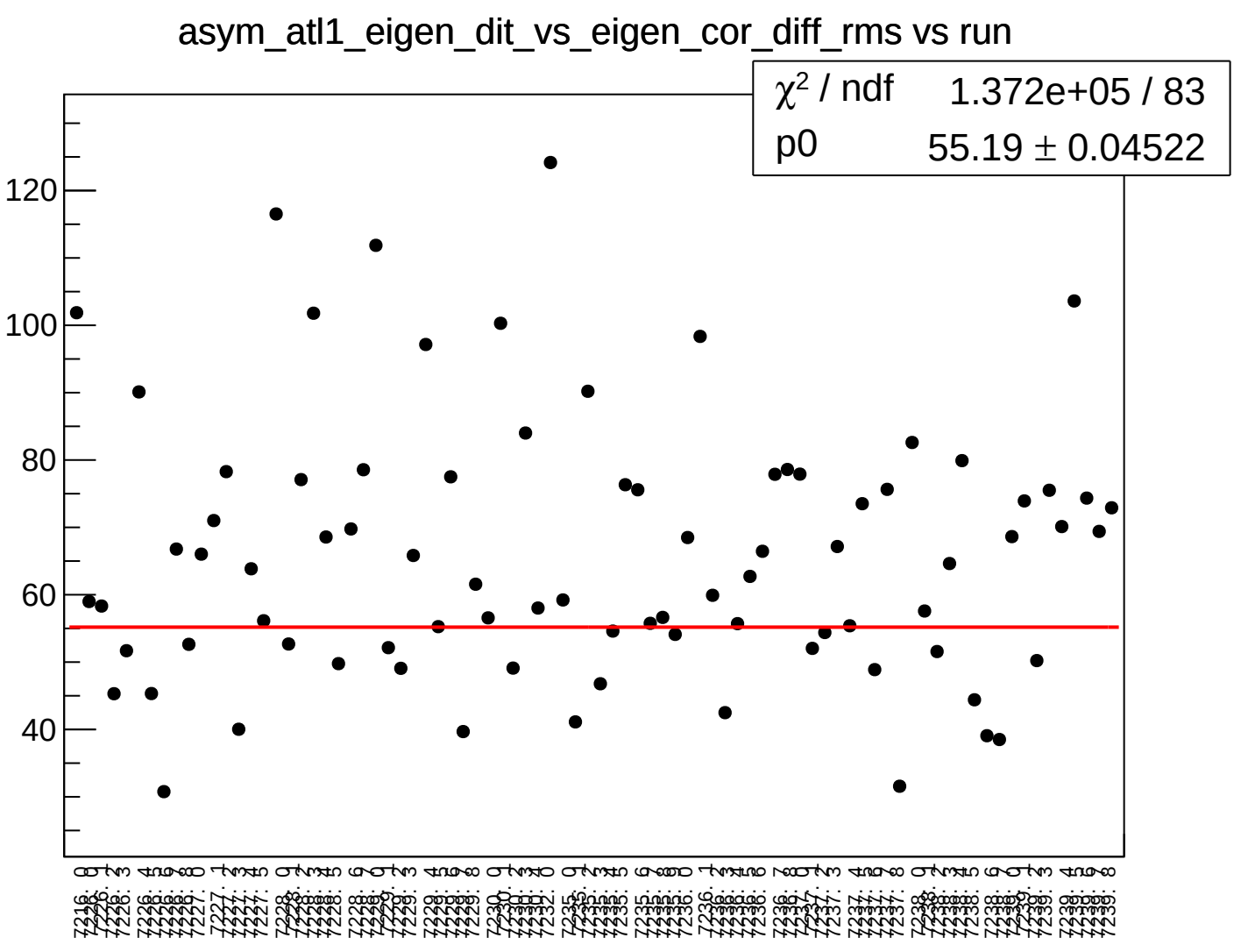

pull1D
Entries 84
Mean 0.002564
Std Dev 1.047

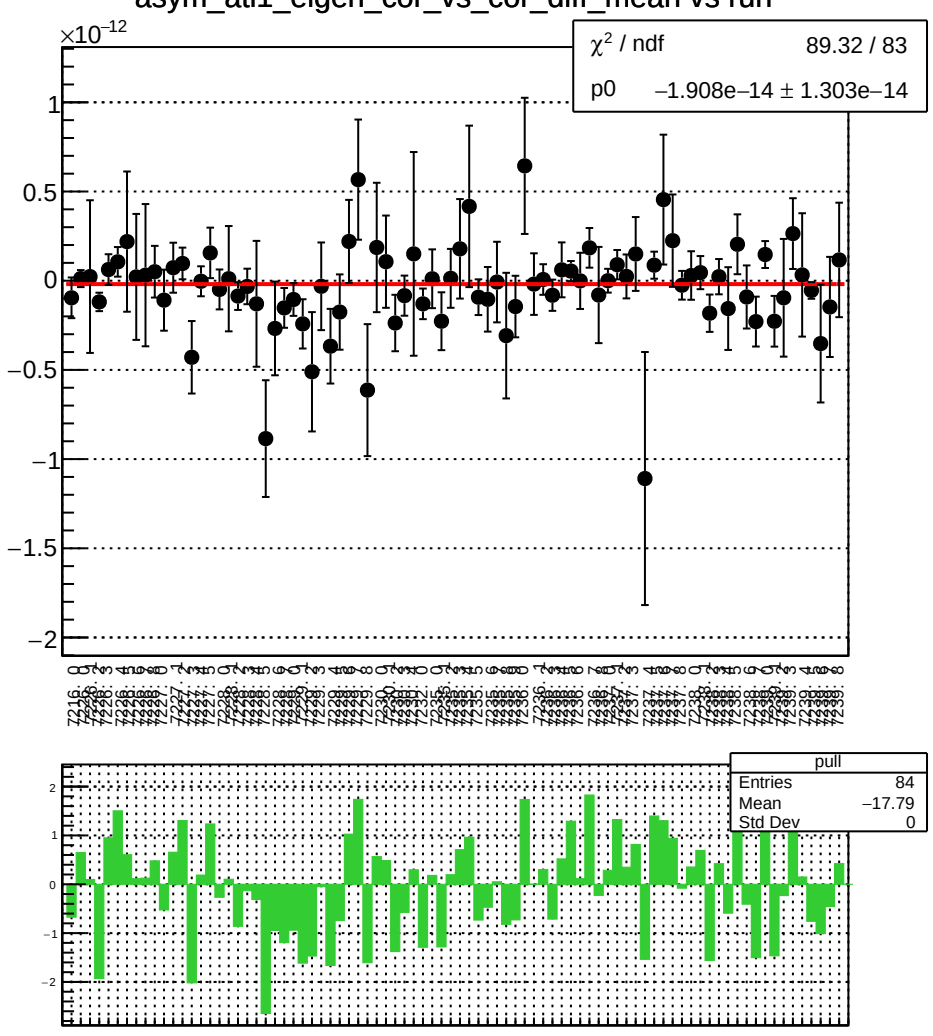

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.993e+05 / 83
p0 0.001572 ± 1.364e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

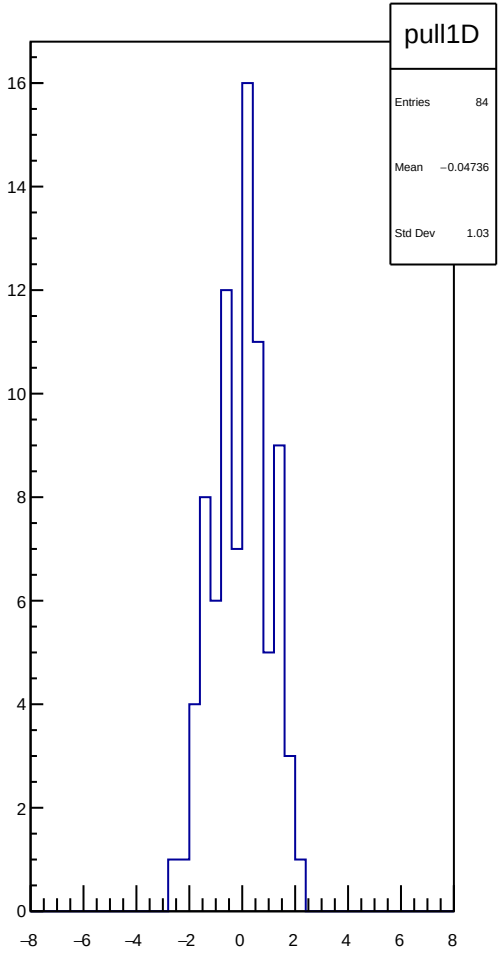

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 115.2 / 83
p0 −0.02791 ± 0.06395
pull
Entries 84
Mean −161.4
Std Dev 0
pull1D
Entries 84
Mean −0.02613
Std Dev 1.171

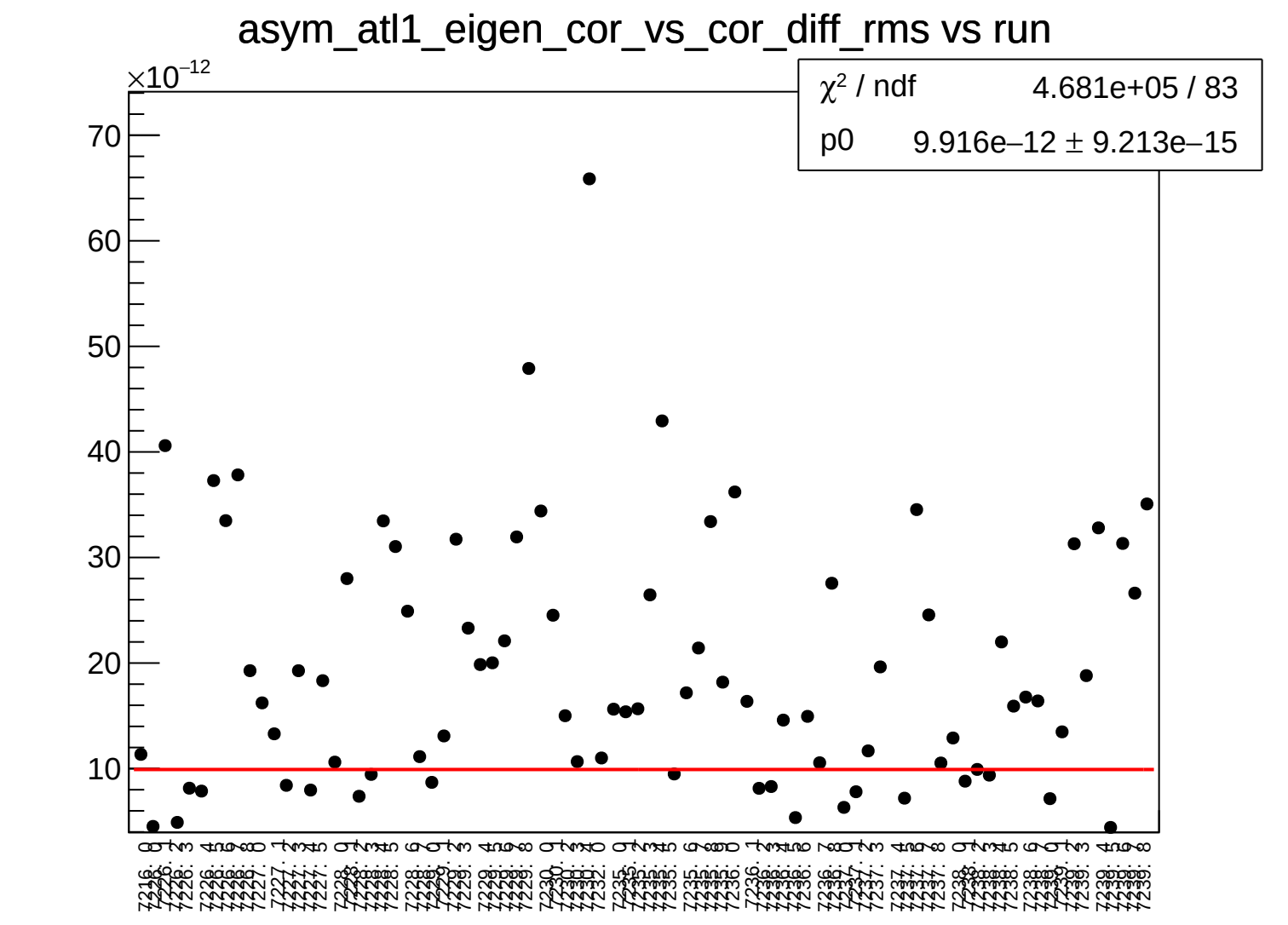

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.372e+05 / 83
p0 55.19 ± 0.04522
120
100
80
60
40

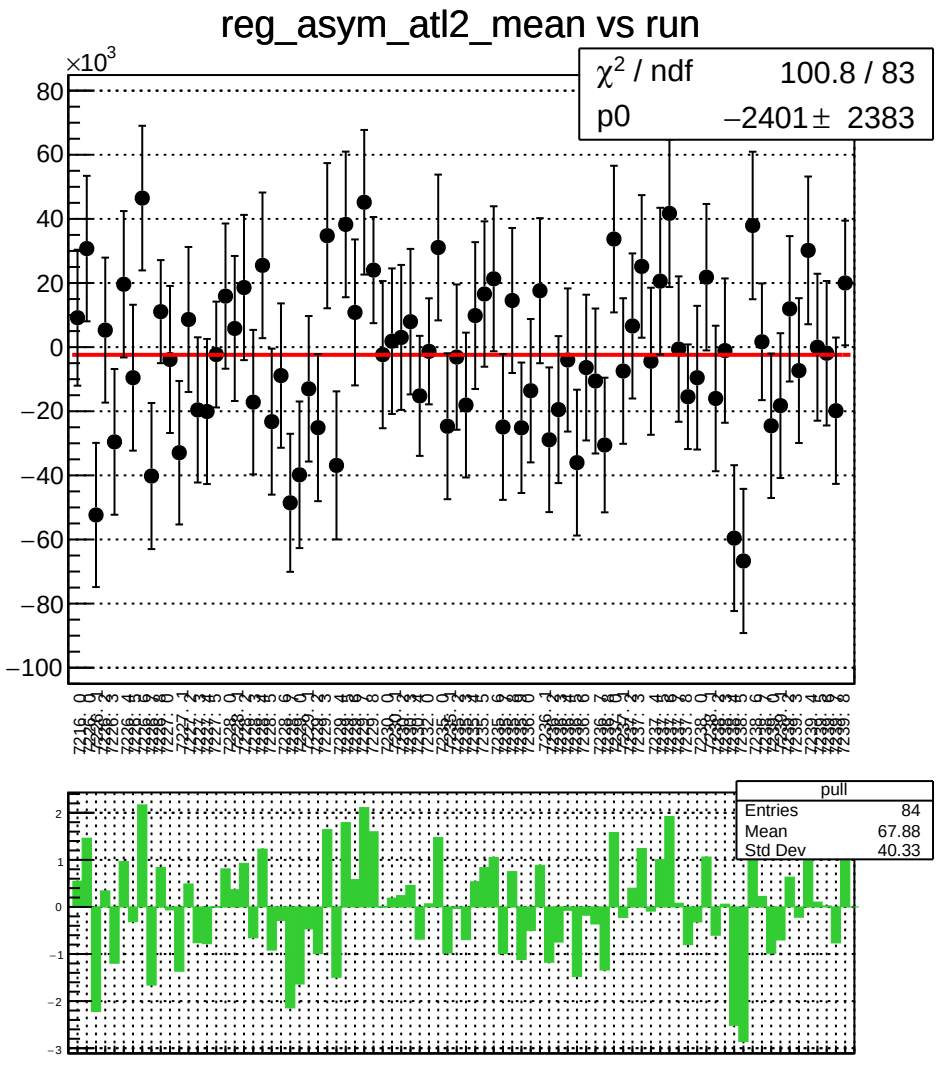

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 115.2 / 83
p0 −0.02791 ± 0.06395
pull
Entries 84
Mean −161.4
Std Dev 0
pull1D
Entries 84
Mean −0.02613
Std Dev 1.171

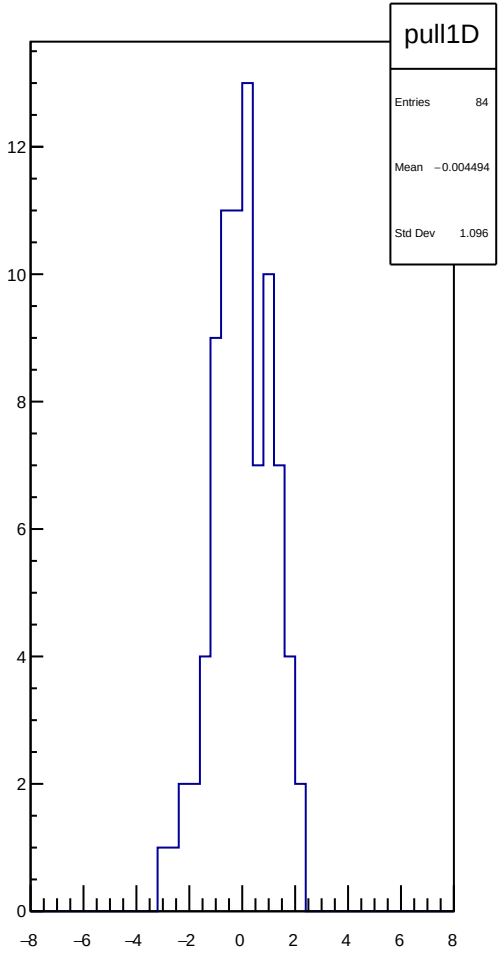

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.372e+05 / 83
p0 55.19 ± 0.04522
120
100
80
60
40

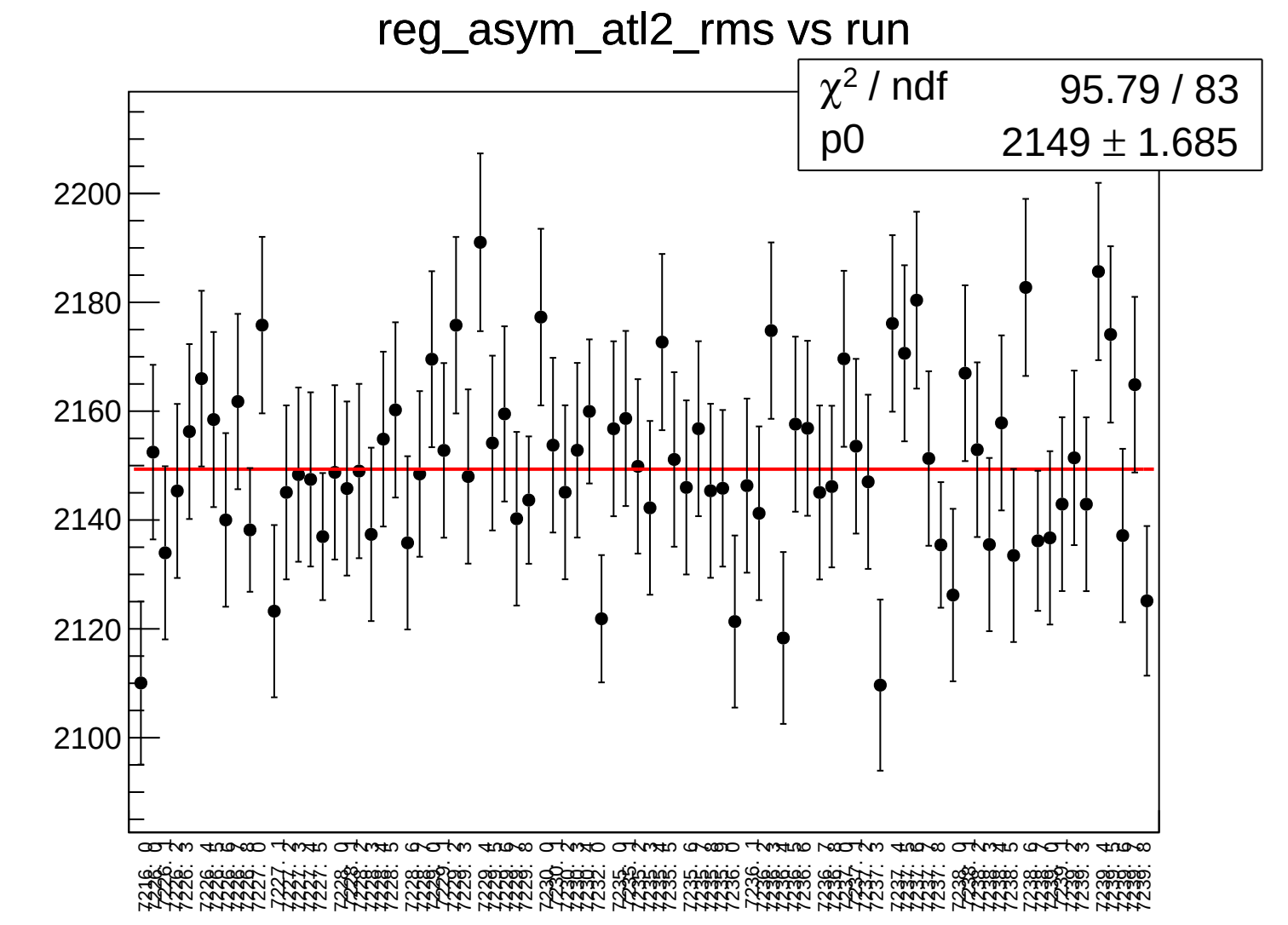

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.32 / 83
p0 −1.908e−14 ± 1.303e−14
pull
Entries 84
Mean −17.79
Std Dev 0

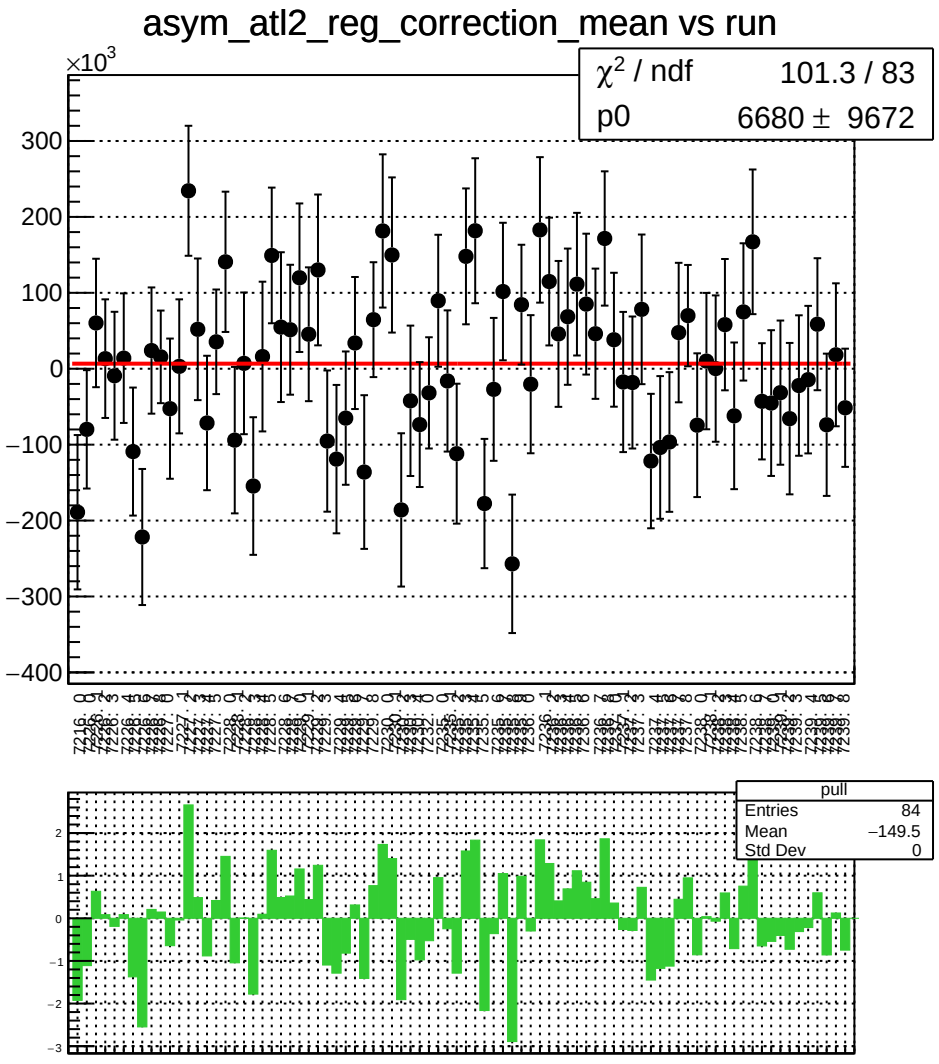

pull1D
Entries 84
Mean −0.04736
Std Dev 1.03

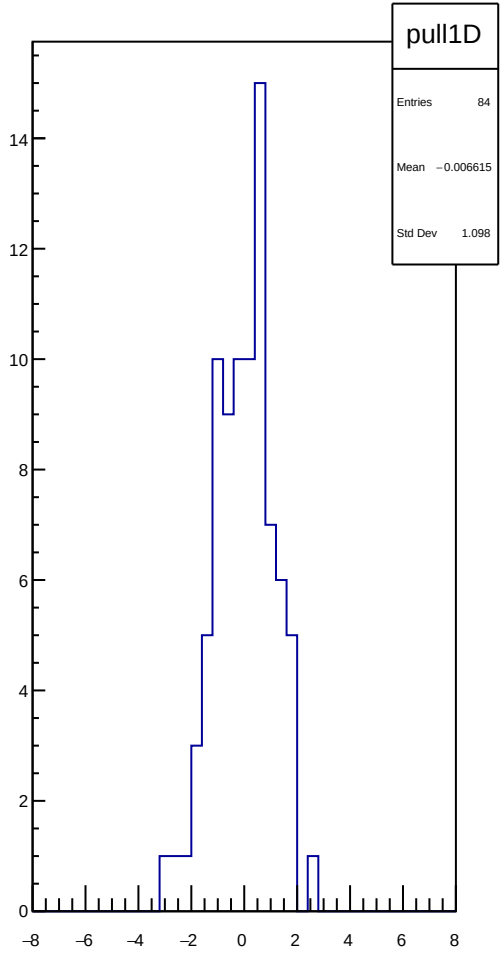

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
70
60
50
40
30
20
10
χ² / ndf 4.681e+05 / 83
p0 9.916e−12 ± 9.213e−15

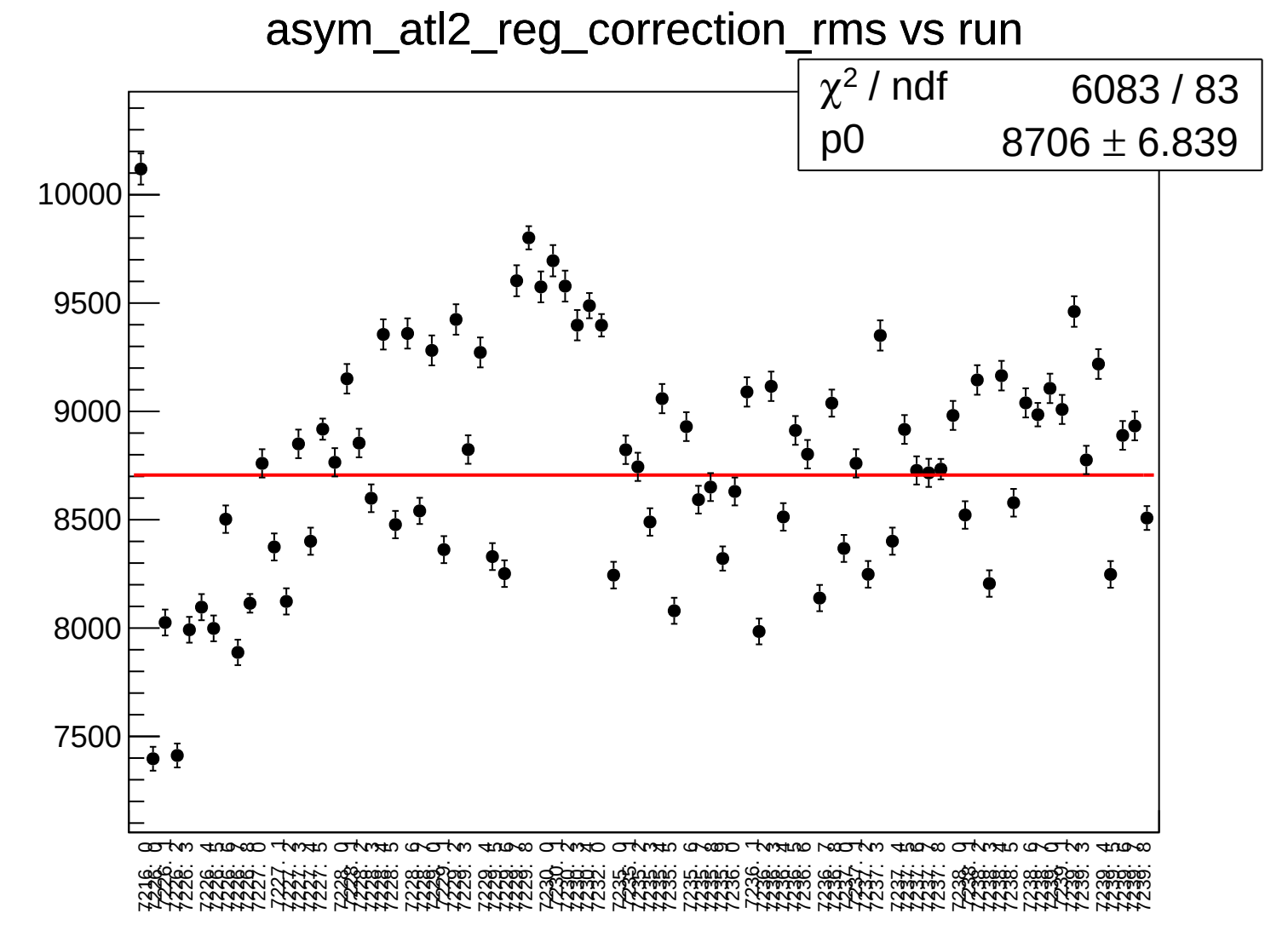

reg_asym_atl2_mean vs run
×10^3
χ² / ndf 100.8 / 83
p0 −2401 ± 2383
pull
Entries 84
Mean 67.88
Std Dev 40.33

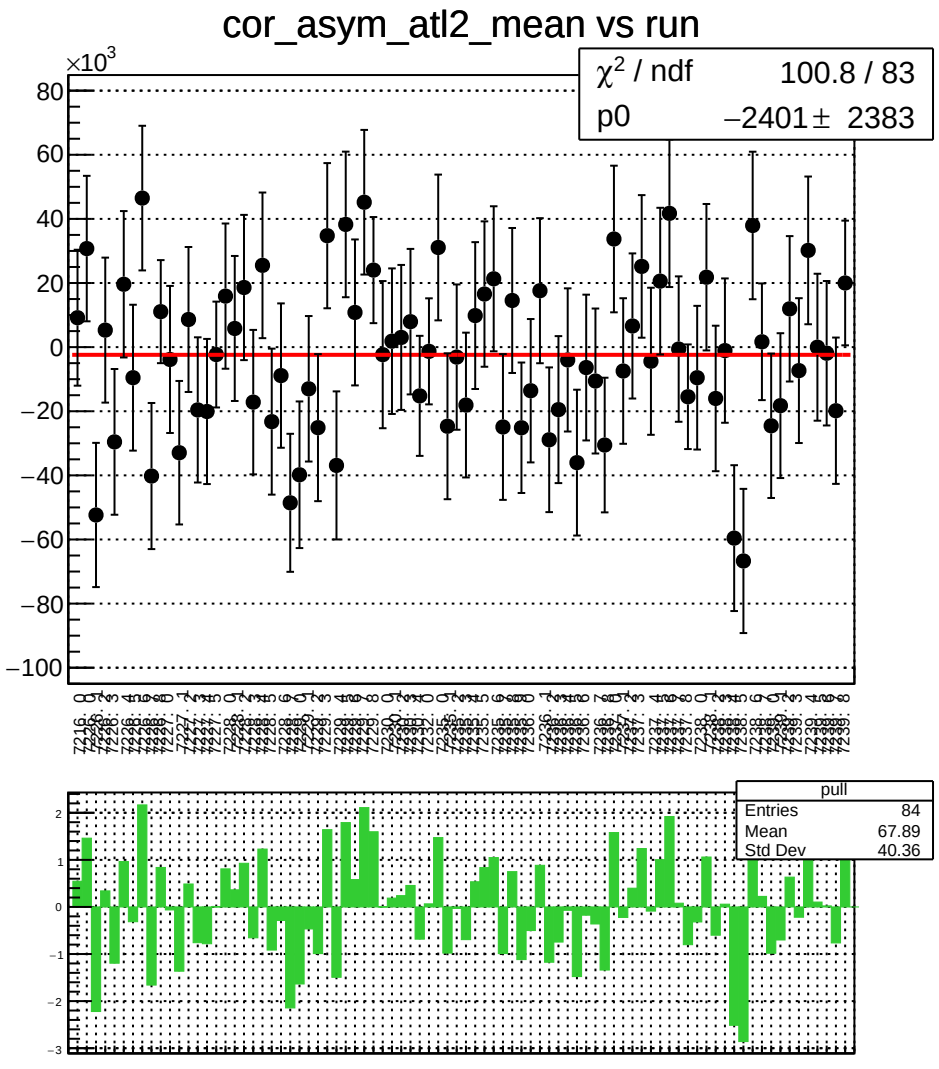

pull1D
Entries 84
Mean −0.004494
Std Dev 1.096

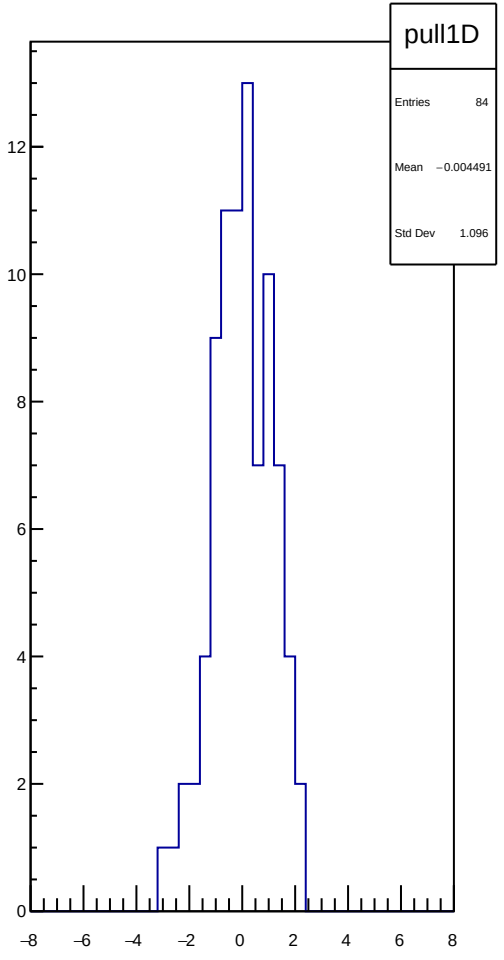

reg_asym_atl2_rms vs run
χ^2 / ndf 95.79 / 83
p0 2149 ± 1.685
2200
2180
2160
2140
2120
2100

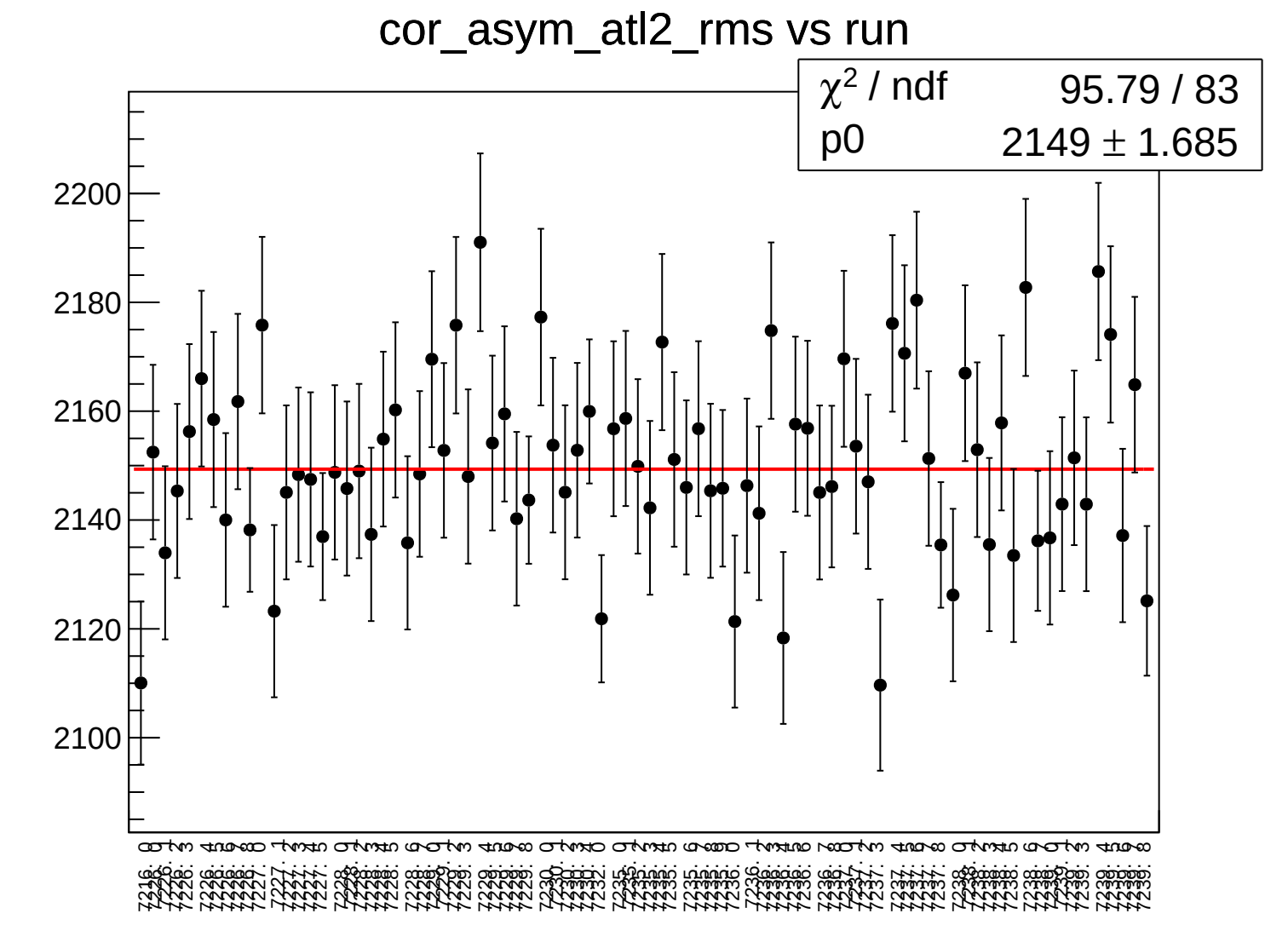

asym_atl2_reg_correction_mean vs run
×10^3
χ² / ndf 101.3 / 83
p0 6680 ± 9672
300
200
100
0
−100
−200
−300
−400
pull
Entries 84
Mean −149.5
Std Dev 0
2
1
0
−1
−2
−3

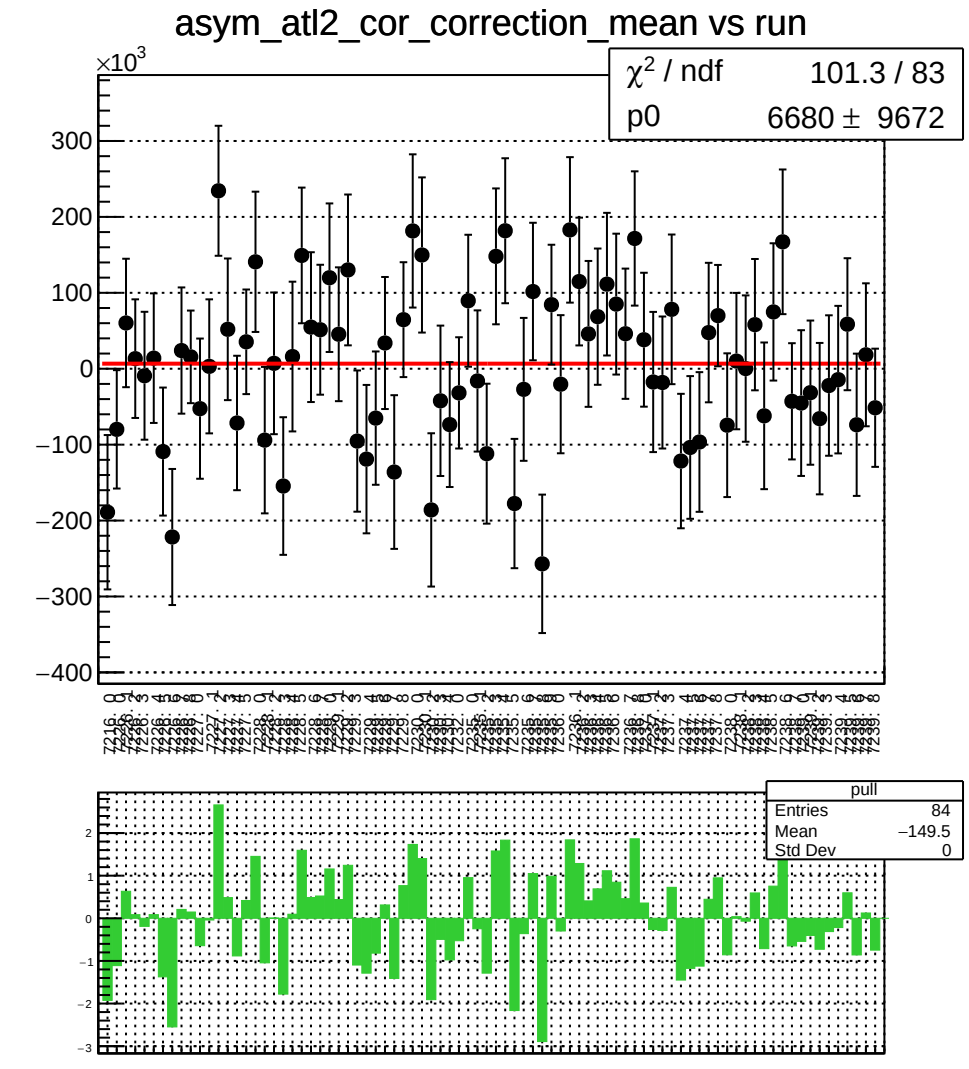

pull1D
Entries 84
Mean −0.006615
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

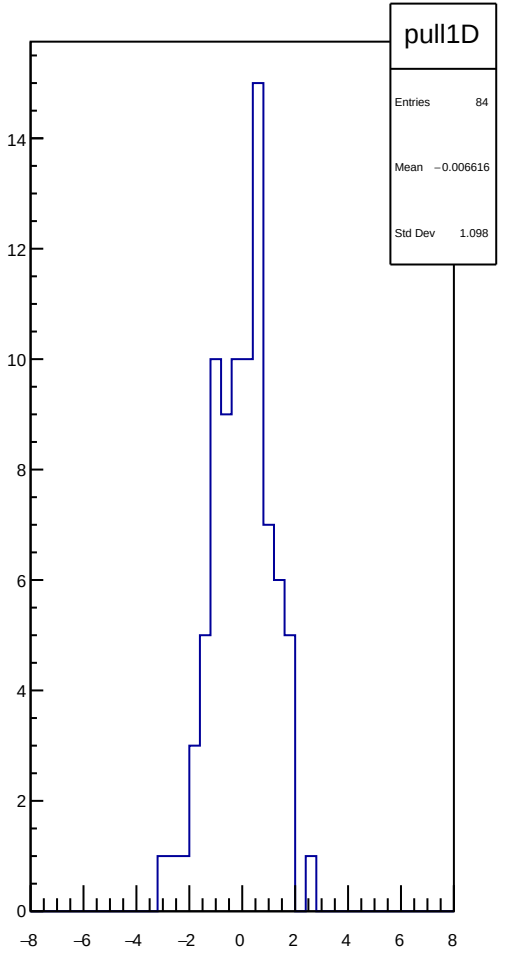

asym_atl2_reg_correction_rms vs run
χ² / ndf 6083 / 83
p0 8706 ± 6.839
10000
9500
9000
8500
8000
7500

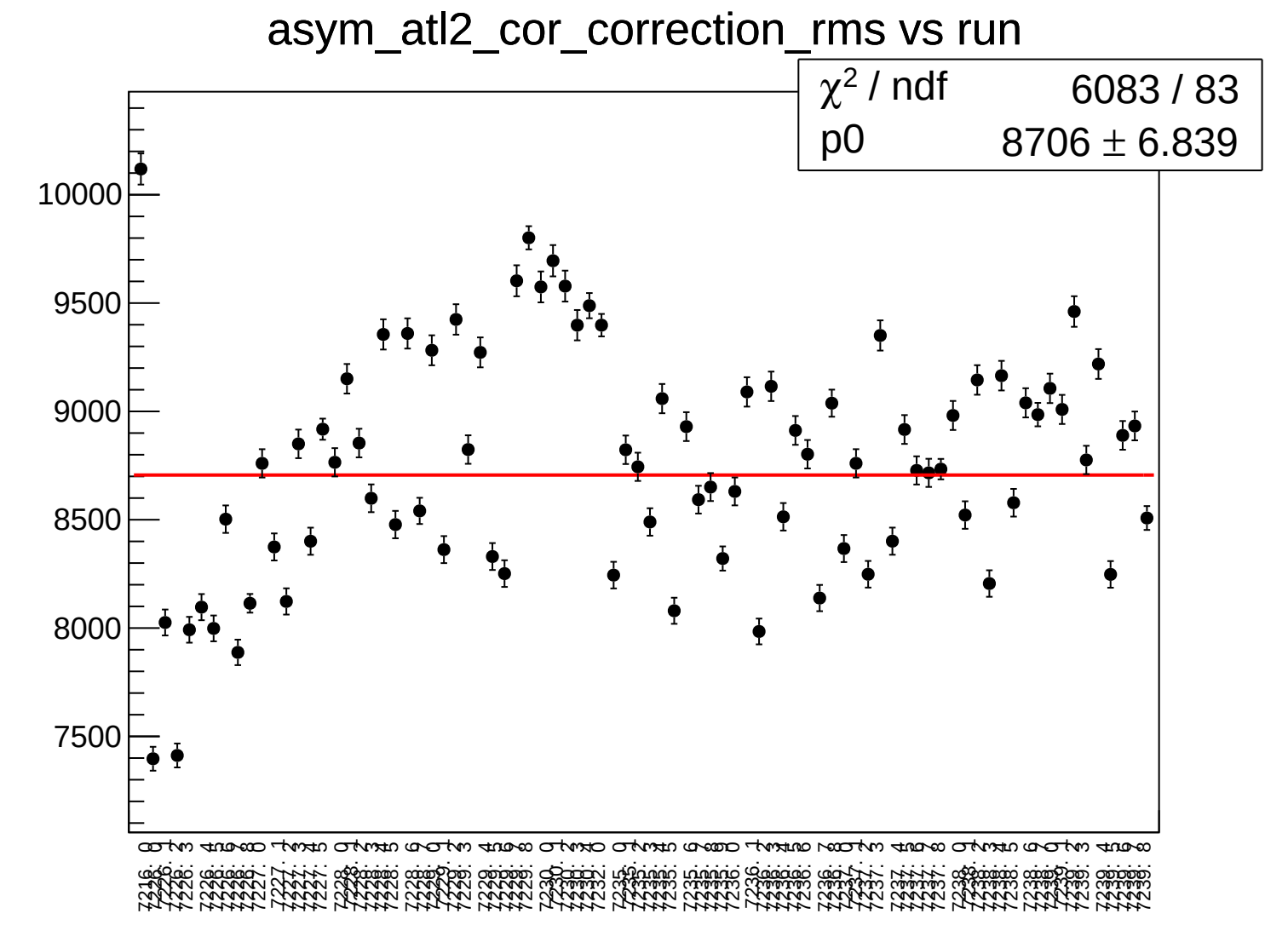

cor_asym_atl2_mean vs run
×10^3
χ^2 / ndf 100.8 / 83
p0 −2401 ± 2383
pull
Entries 84
Mean 67.89
Std Dev 40.36

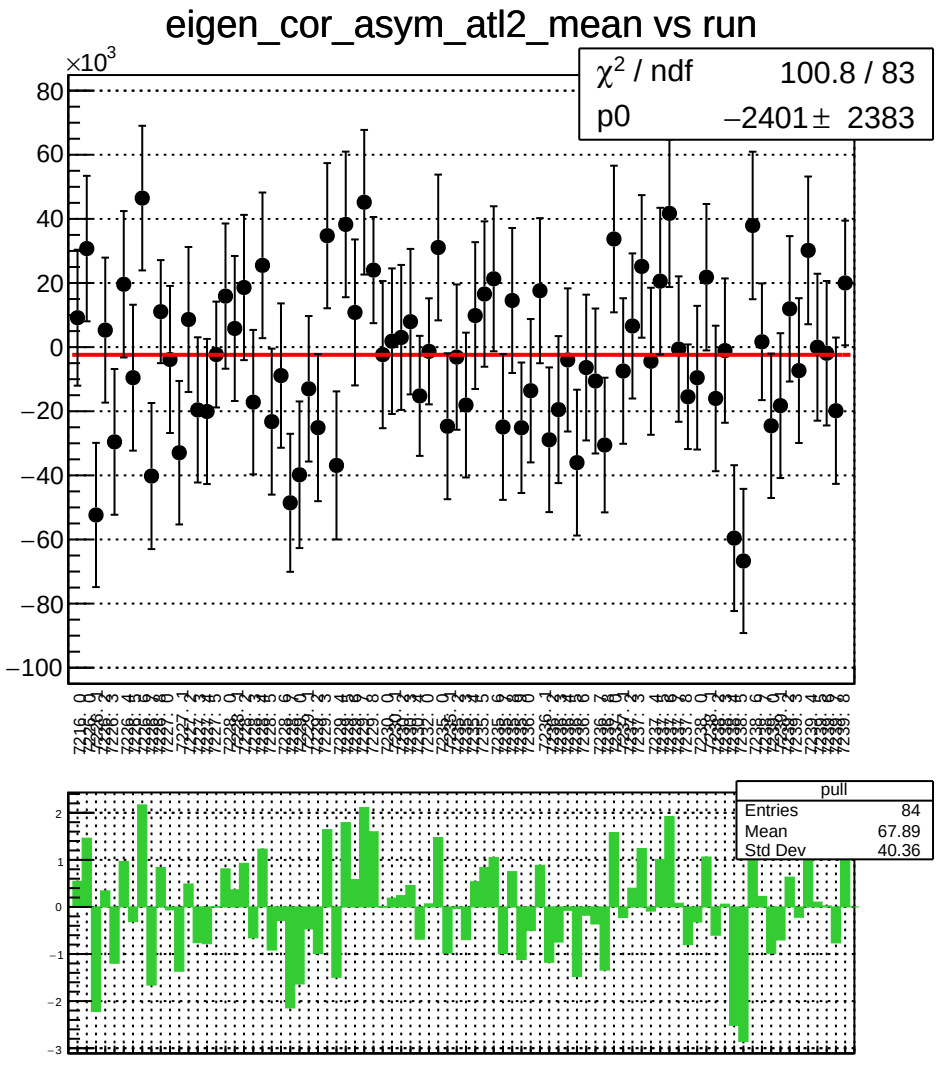

pull1D
Entries 84
Mean −0.004491
Std Dev 1.096

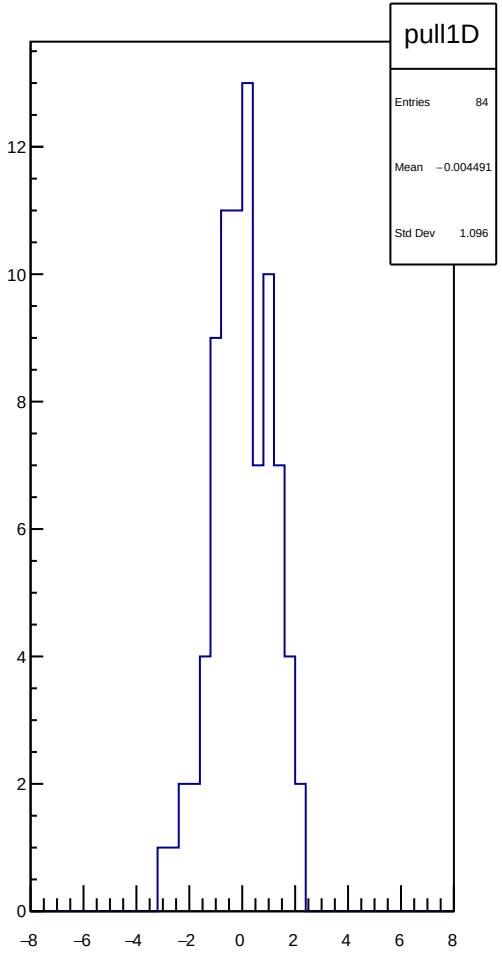

cor_asym_atl2_rms vs run
χ^2 / ndf 95.79 / 83
p0 2149 ± 1.685
2200
2180
2160
2140
2120
2100

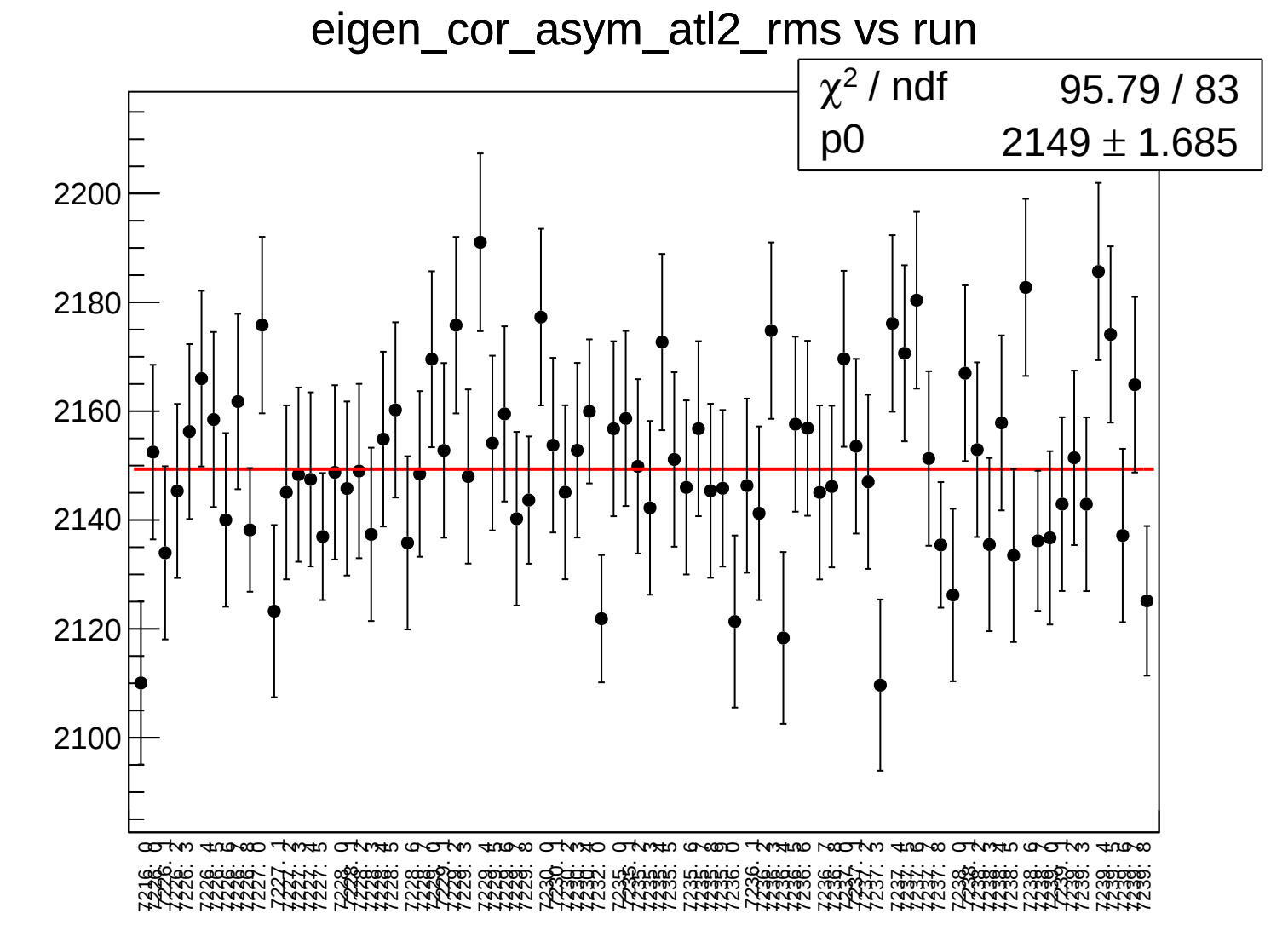

asym_atl2_cor_correction_mean vs run
×10^3
χ² / ndf 101.3 / 83
p0 6680 ± 9672
300
200
100
0
−100
−200
−300
−400
pull
Entries 84
Mean −149.5
Std Dev 0
2
1
0
−1
−2
−3

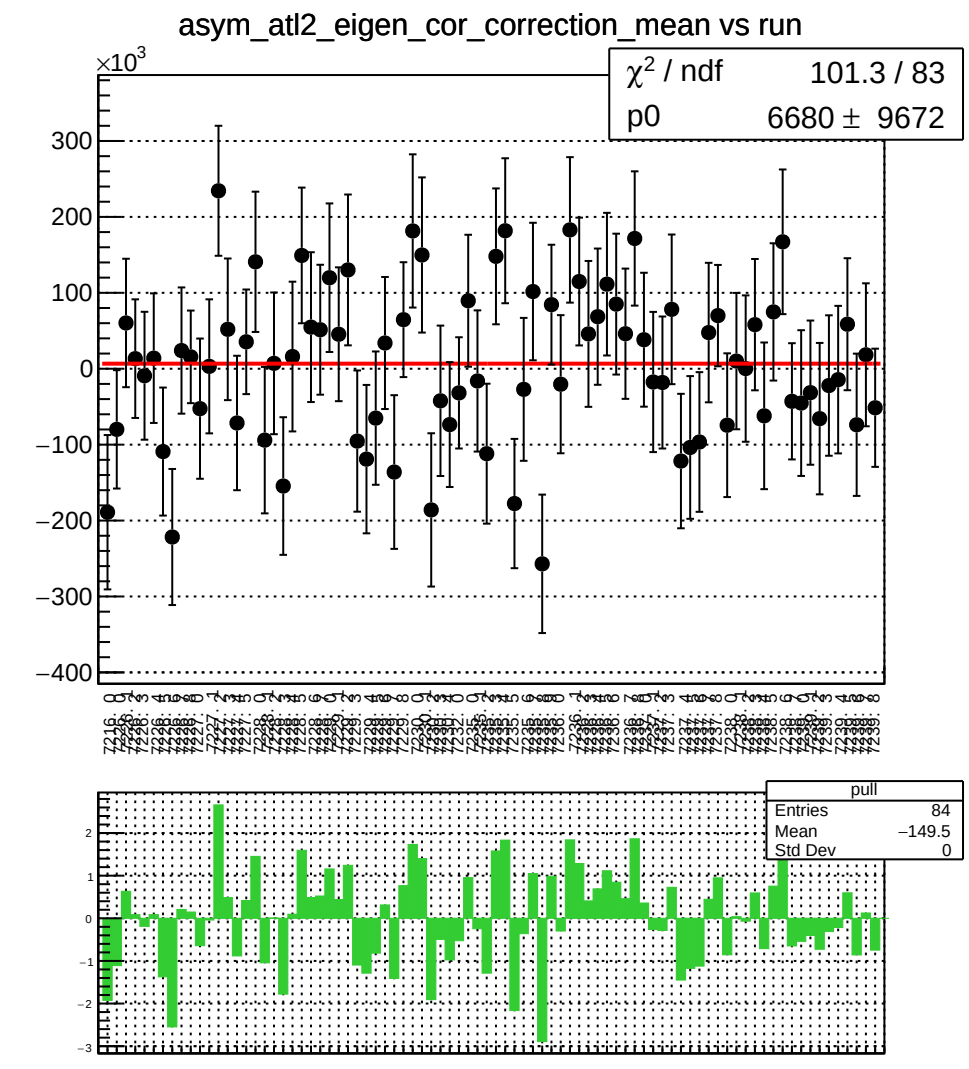

pull1D
Entries 84
Mean −0.006616
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

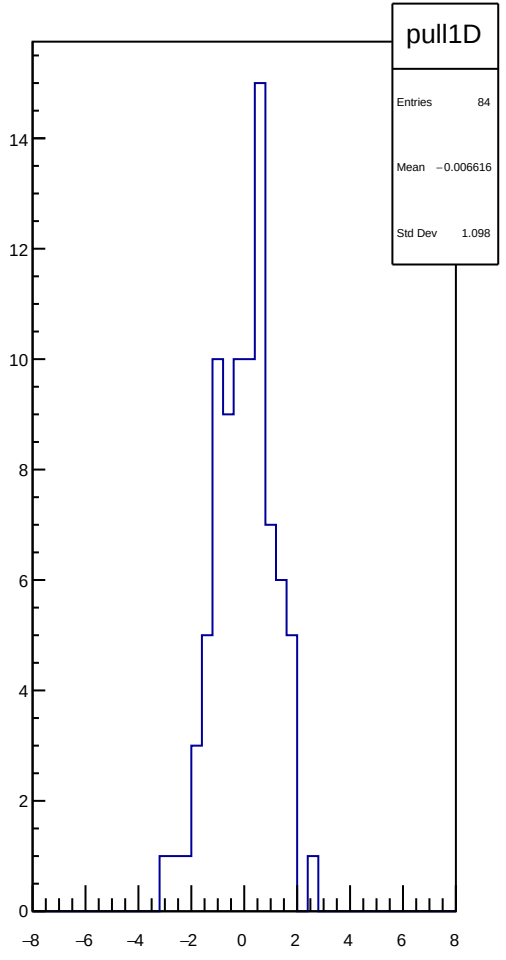

asym_atl2_cor_correction_rms vs run
χ² / ndf 6083 / 83
p0 8706 ± 6.839
10000
9500
9000
8500
8000
7500

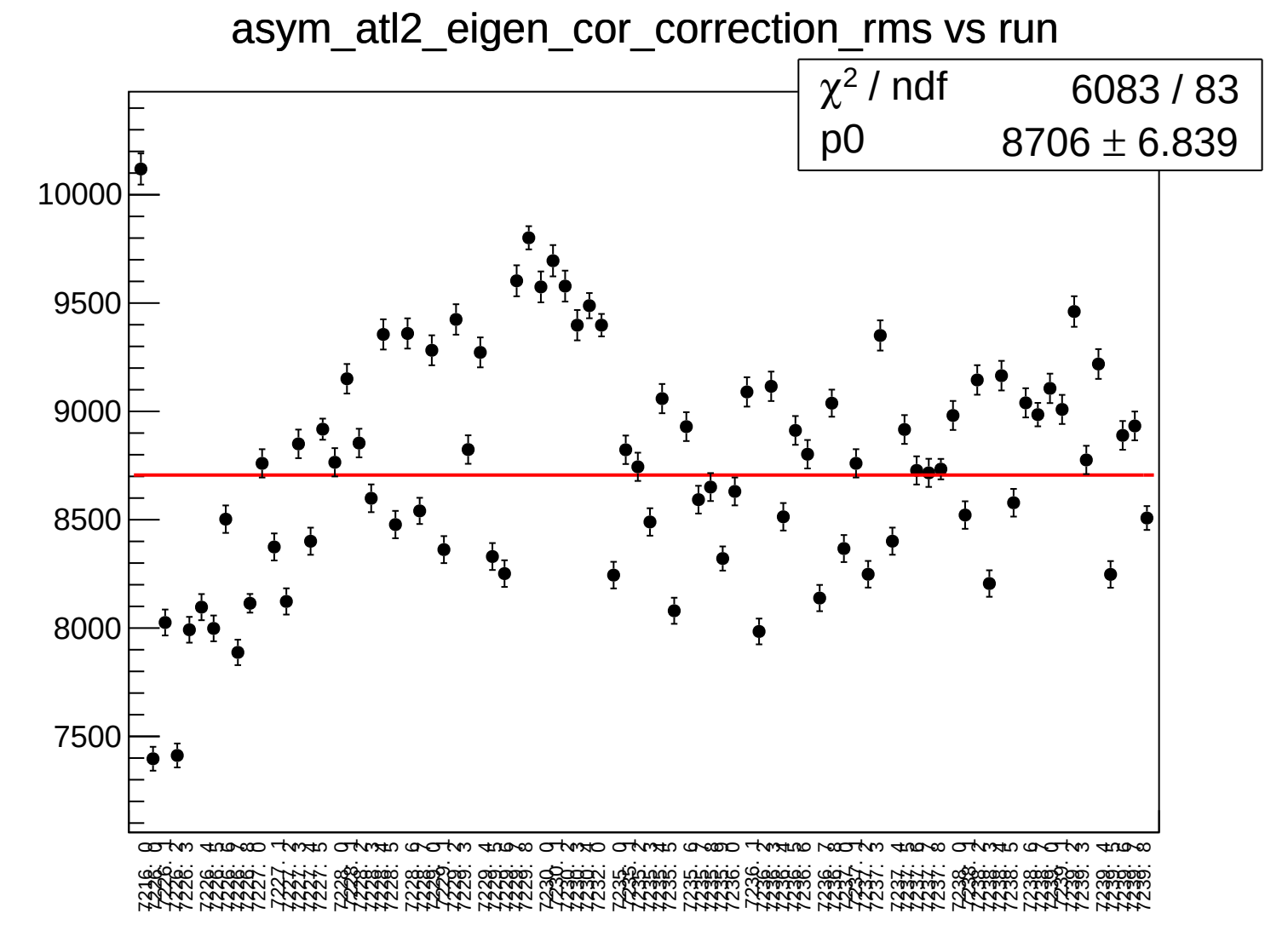

eigen_cor_asym_atl2_mean vs run
χ² / ndf 100.8 / 83
p0 −2401 ± 2383
×10³
pull
Entries 84
Mean 67.89
Std Dev 40.36

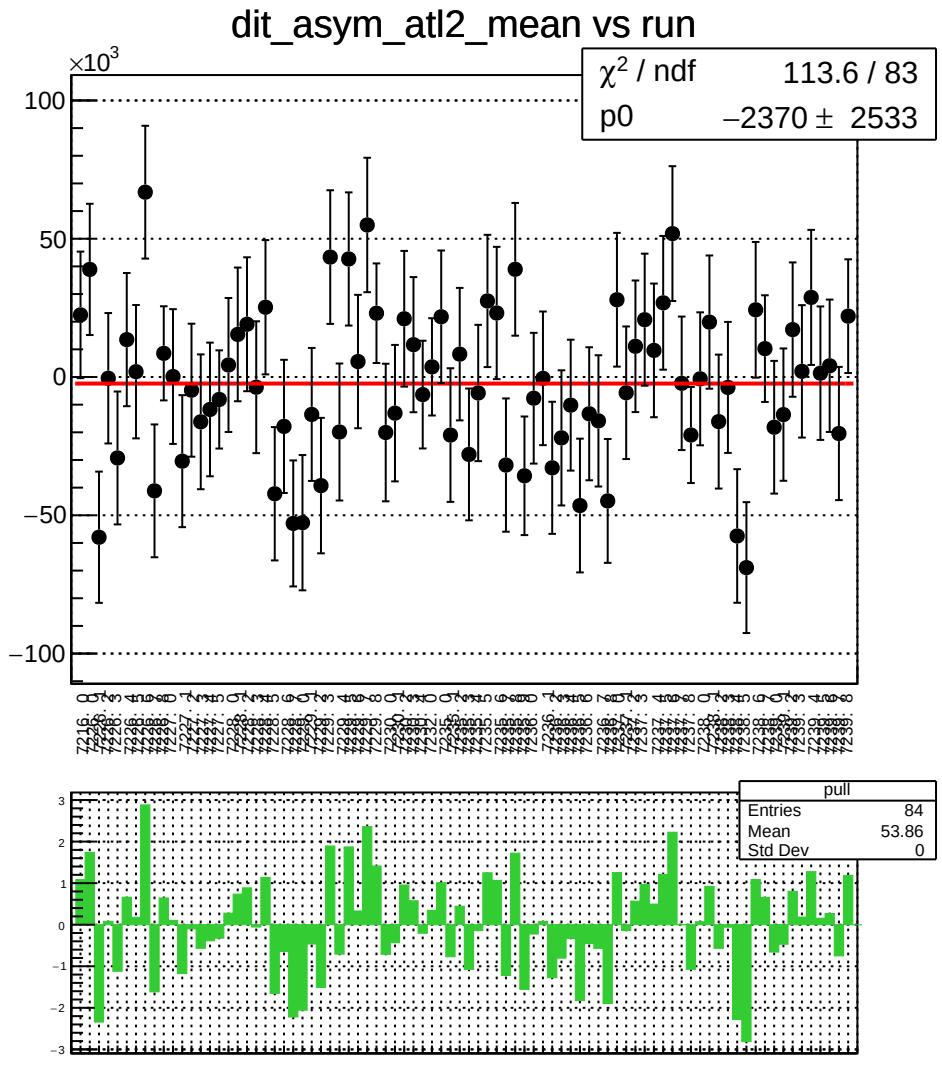

pull1D
Entries 84
Mean −0.004491
Std Dev 1.096

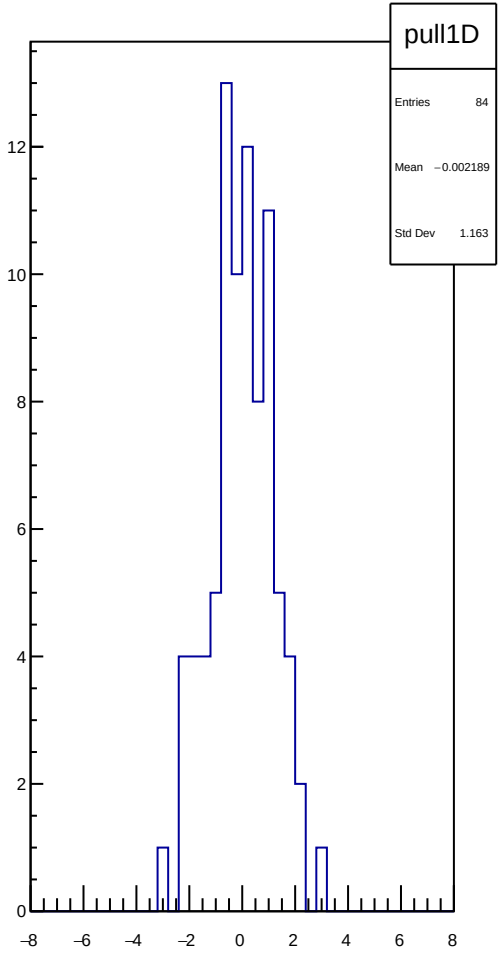

eigen_cor_asym_atl2_rms vs run
χ^2 / ndf 95.79 / 83
p0 2149 ± 1.685
2200
2180
2160
2140
2120
2100

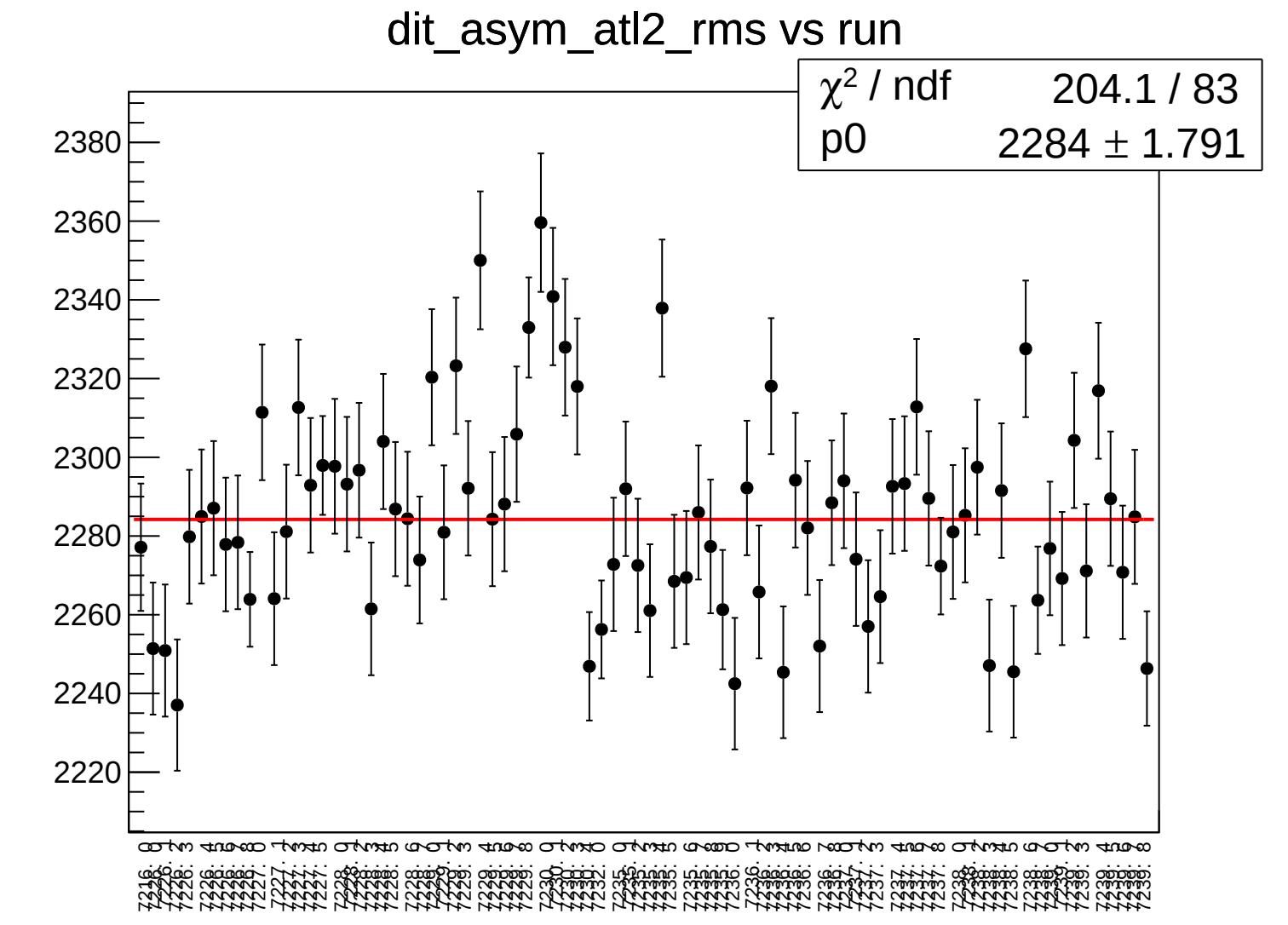

asym_atl2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 101.3 / 83
p0 6680 ± 9672
300
200
100
0
−100
−200
−300
−400
pull
Entries 84
Mean −149.5
Std Dev 0
2
1
0
−1
−2
−3

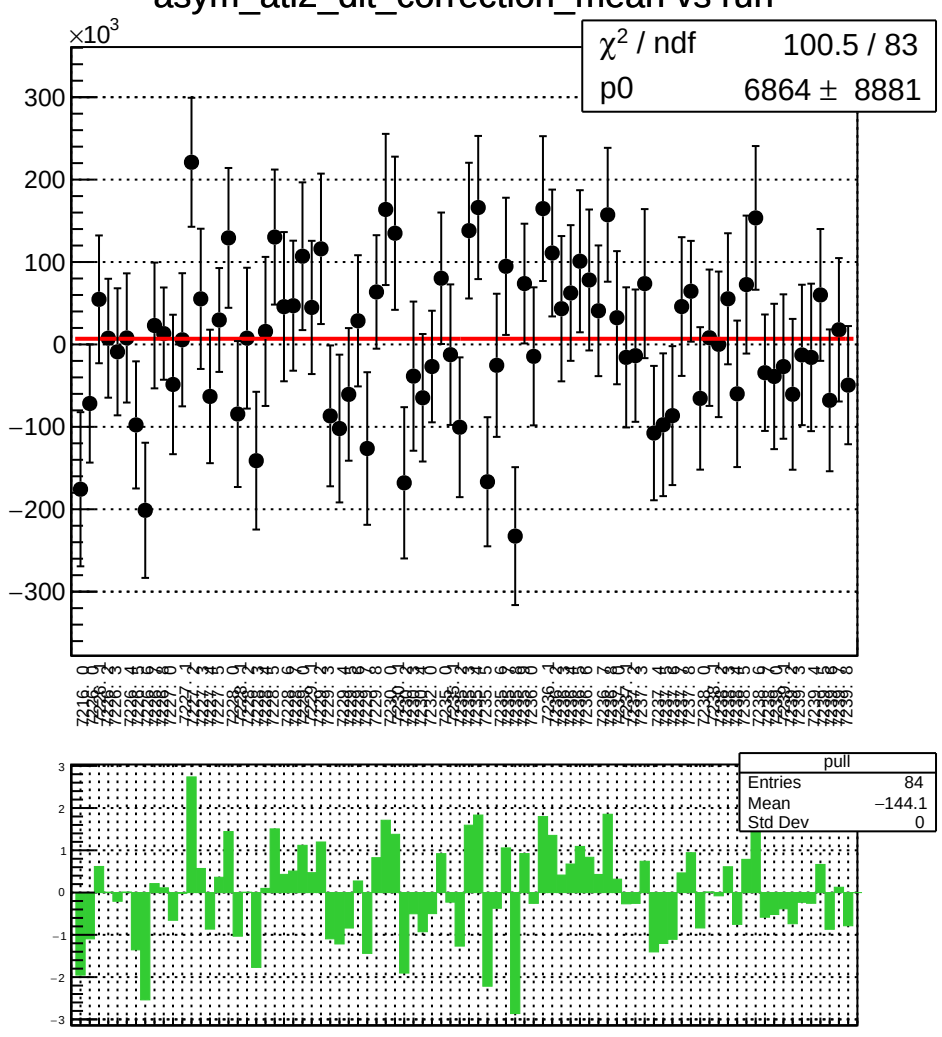

pull1D
Entries 84
Mean −0.006616
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

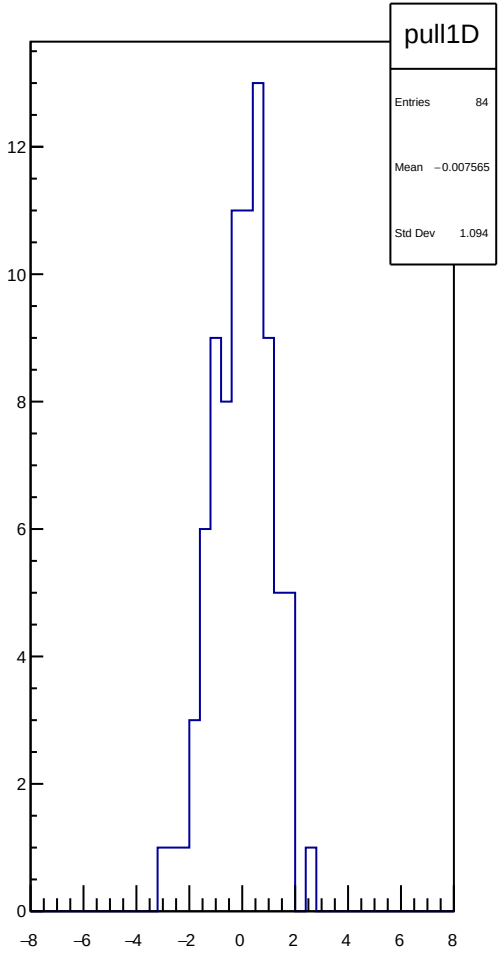

asym_atl2_eigen_cor_correction_rms vs run
χ^2 / ndf 6083 / 83
p0 8706 ± 6.839
10000
9500
9000
8500
8000
7500

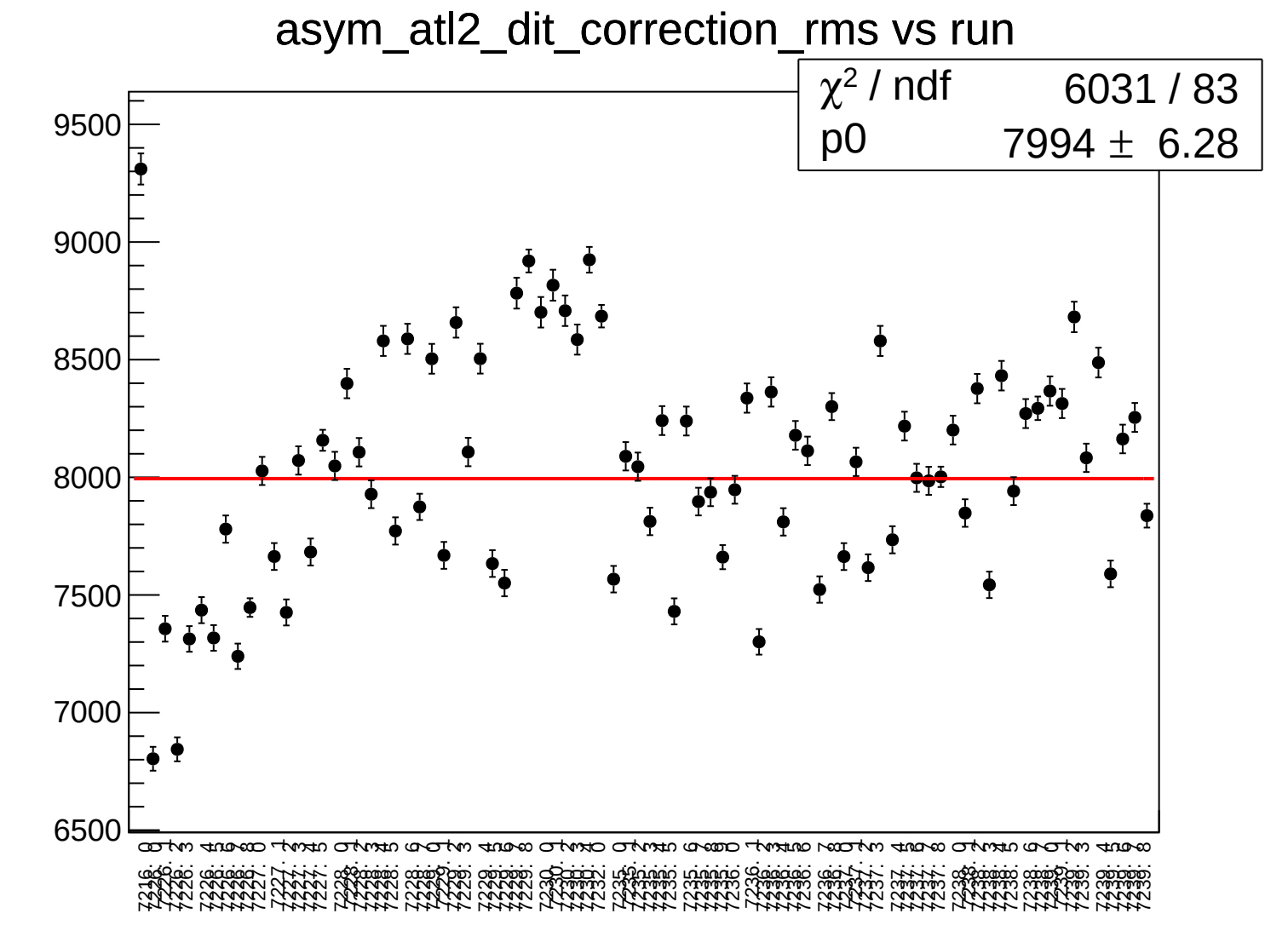

dit_asym_atl2_mean vs run
×10^3
χ² / ndf 113.6 / 83
p0 −2370 ± 2533
100
50
0
−50
−100
pull
Entries 84
Mean 53.86
Std Dev 0
3
2
1
0
−1
−2
−3

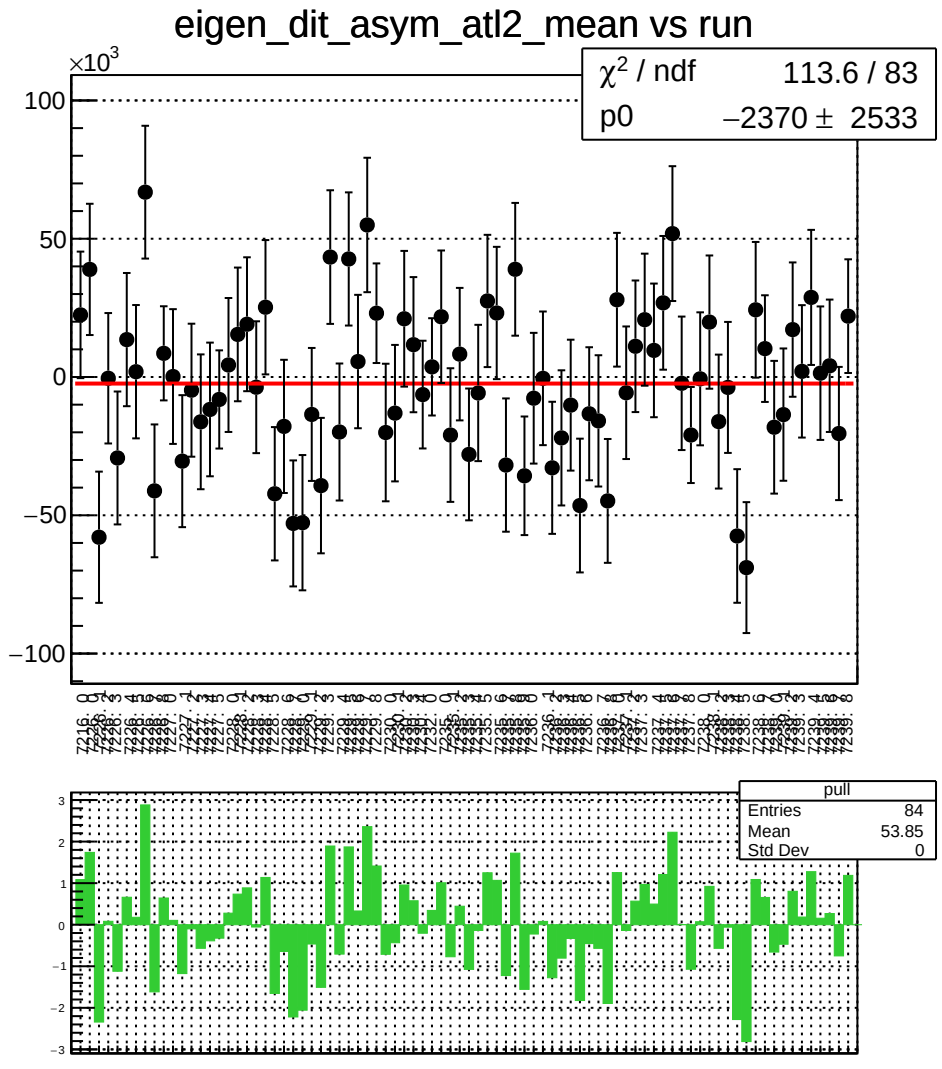

pull1D
Entries 84
Mean −0.002189
Std Dev 1.163
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

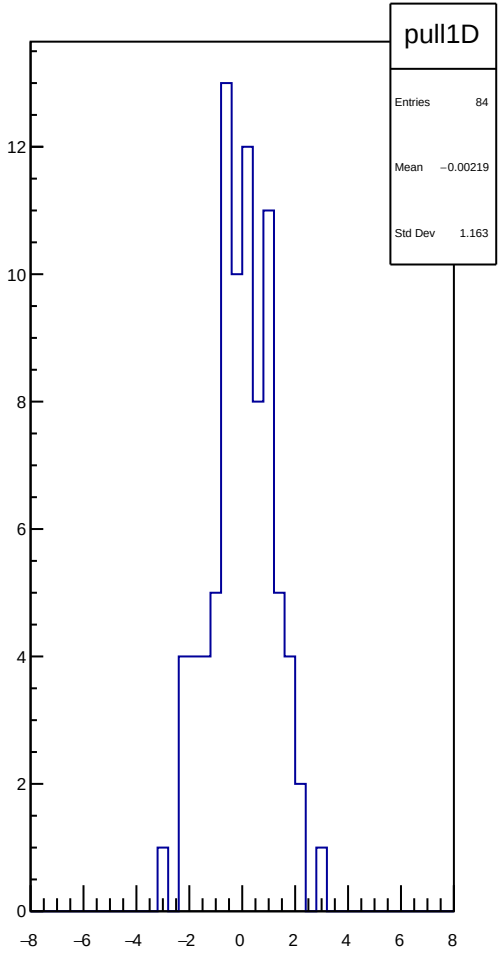

dit_asym_atl2_rms vs run
χ² / ndf 204.1 / 83
p0 2284 ± 1.791
2380
2360
2340
2320
2300
2280
2260
2240
2220

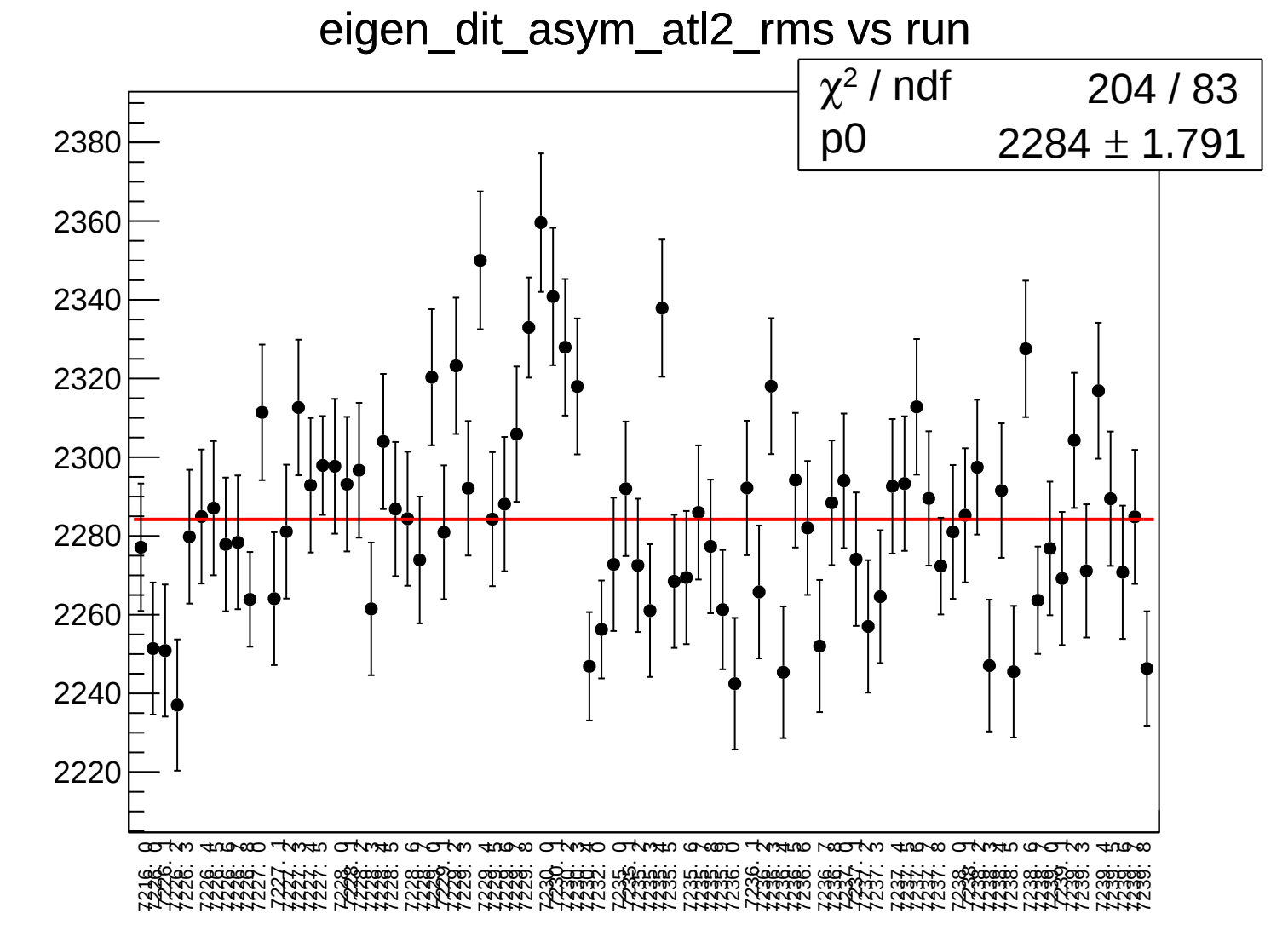

asym_atl2_dit_correction_mean vs run
×10^3
χ² / ndf 100.5 / 83
p0 6864 ± 8881
300
200
100
0
−100
−200
−300
pull
Entries 84
Mean −144.1
Std Dev 0
3
2
1
0
−1
−2
−3

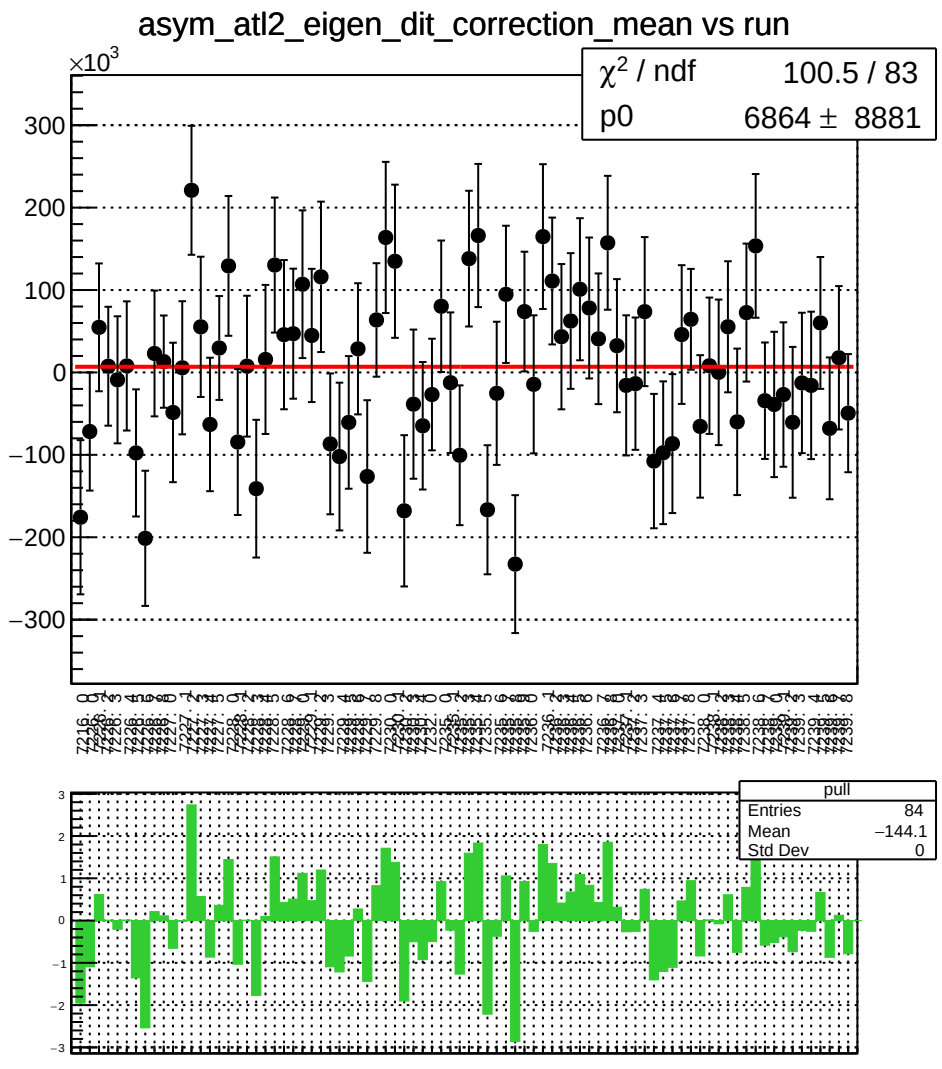

pull1D
Entries 84
Mean −0.007565
Std Dev 1.094
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

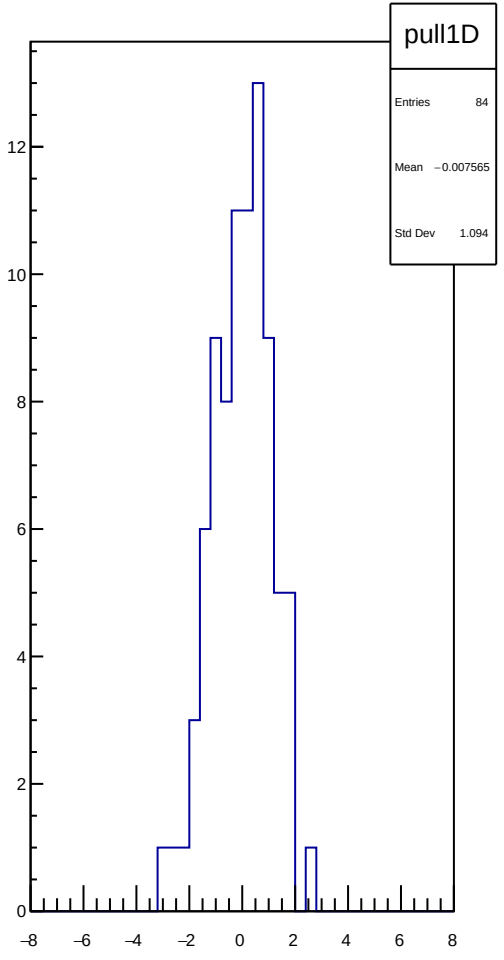

asym_atl2_dit_correction_rms vs run
χ² / ndf 6031 / 83
p0 7994 ± 6.28
9500
9000
8500
8000
7500
7000
6500

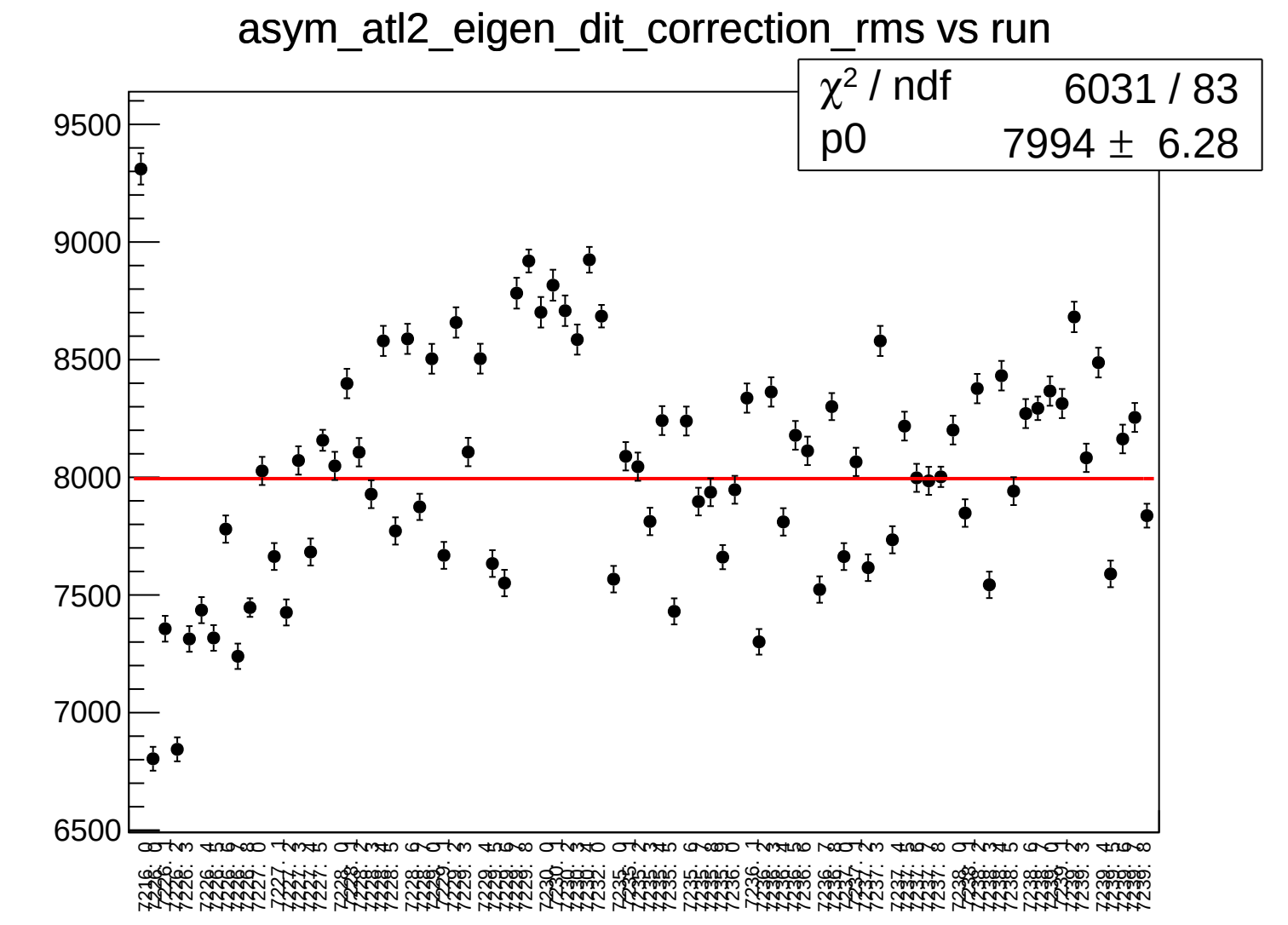

eigen_dit_asym_atl2_mean vs run
×10^3
χ² / ndf 113.6 / 83
p0 −2370 ± 2533
100
50
0
−50
−100
pull
Entries 84
Mean 53.85
Std Dev 0
3
2
1
0
−1
−2
−3

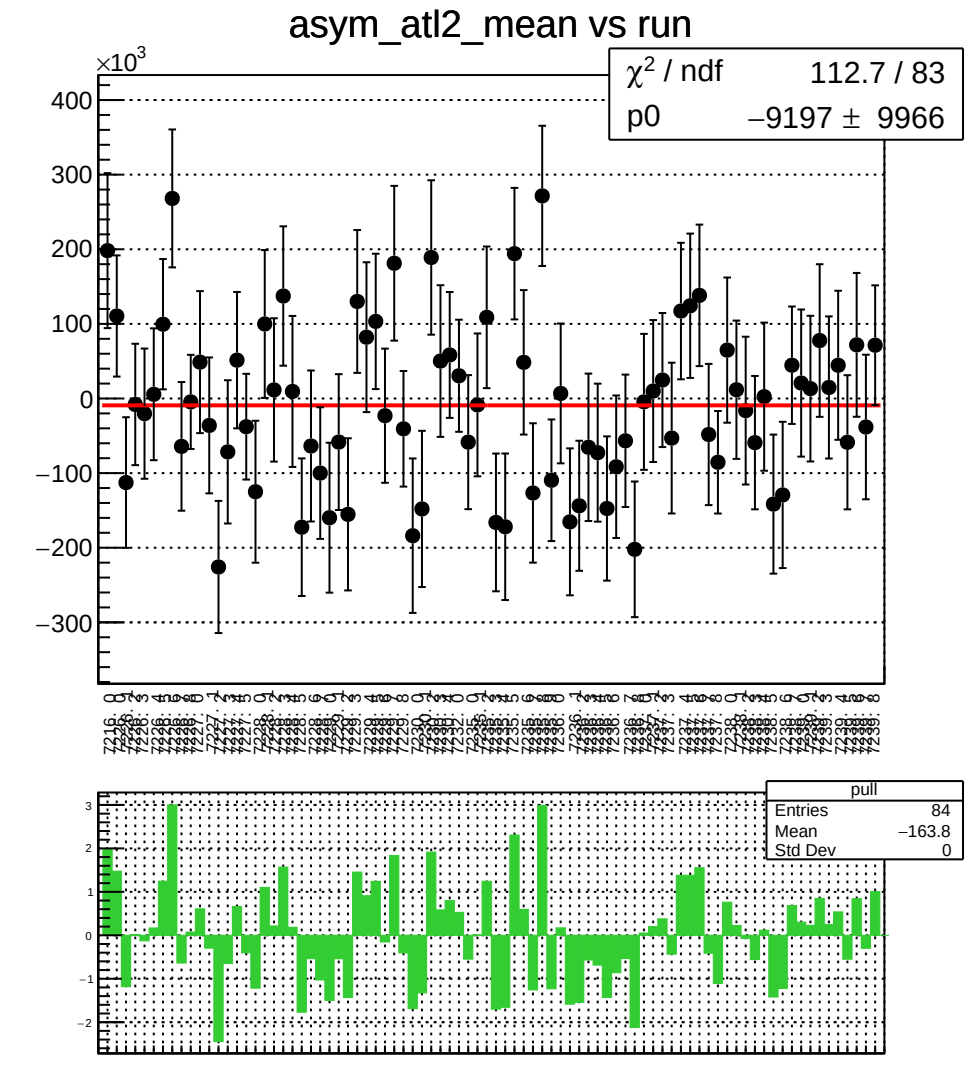

pull1D
Entries 84
Mean −0.00219
Std Dev 1.163
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

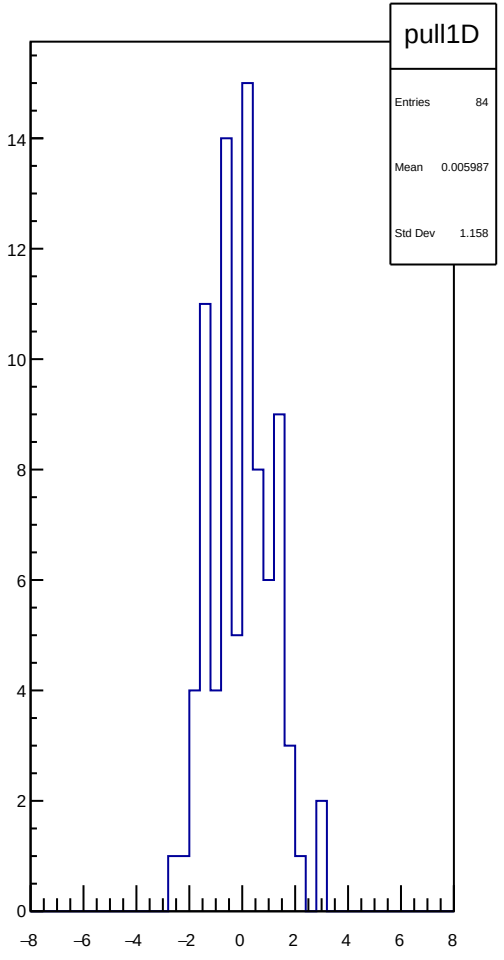

eigen_dit_asym_atl2_rms vs run
χ^2 / ndf 204 / 83
p0 2284 ± 1.791
2380
2360
2340
2320
2300
2280
2260
2240
2220

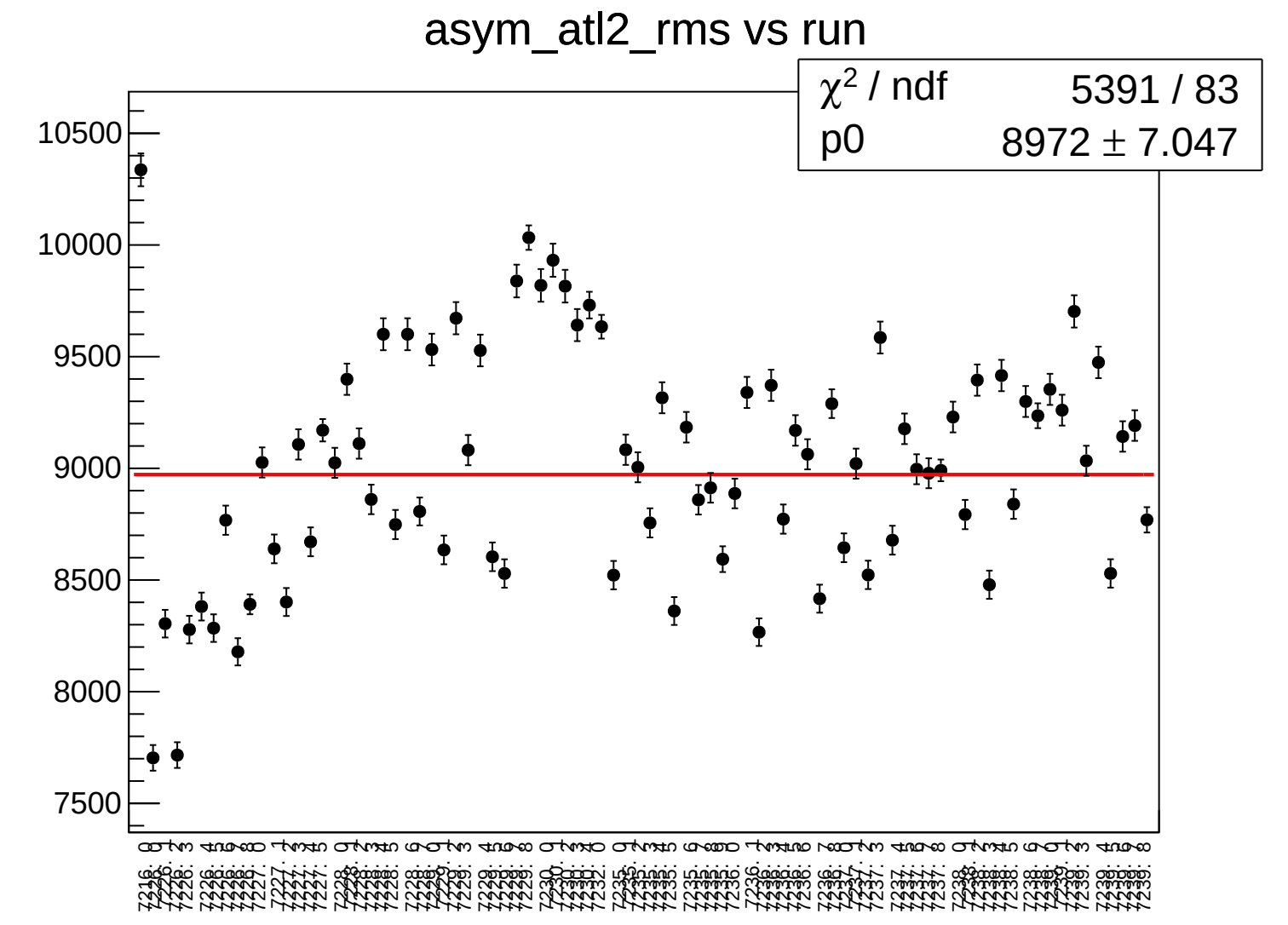

asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 100.5 / 83
p0 6864 ± 8881
300
200
100
0
−100
−200
−300
pull
Entries 84
Mean −144.1
Std Dev 0
3
2
1
0
−1
−2
−3

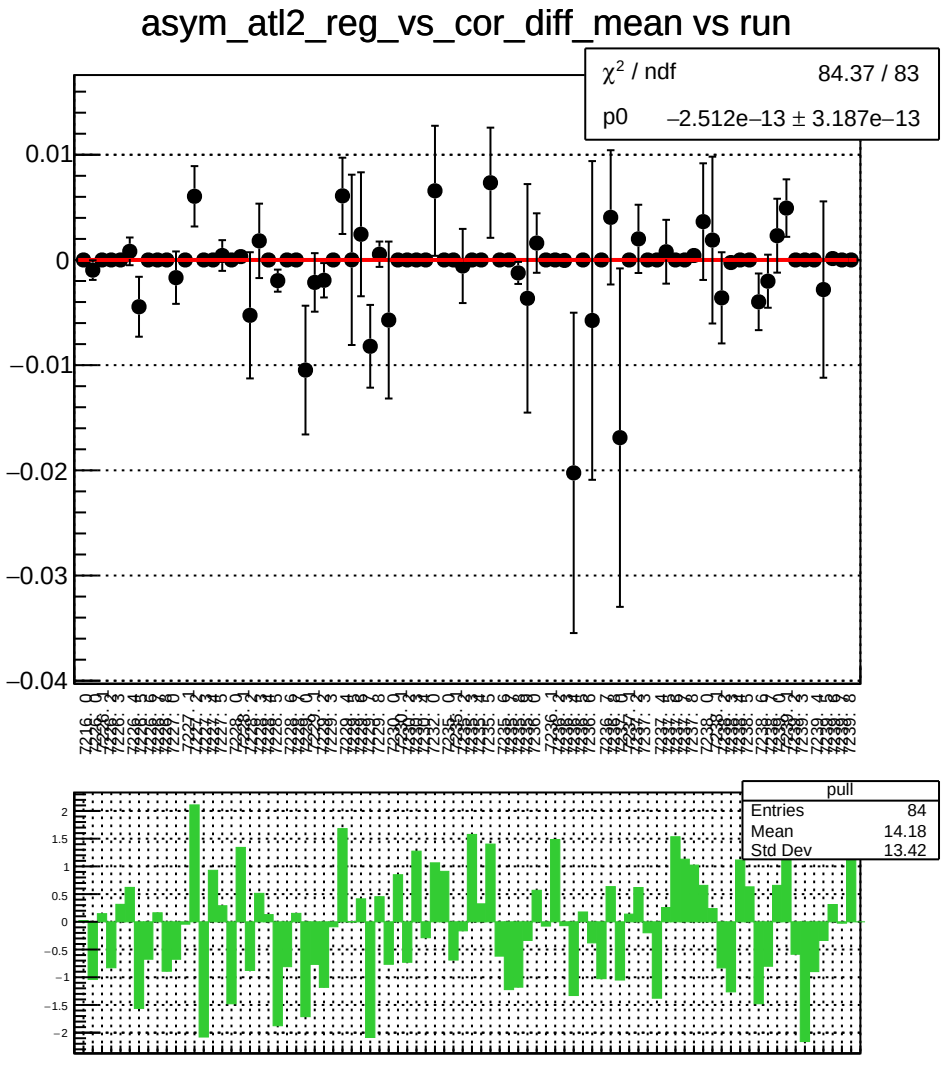

pull1D
Entries 84
Mean −0.007565
Std Dev 1.094
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

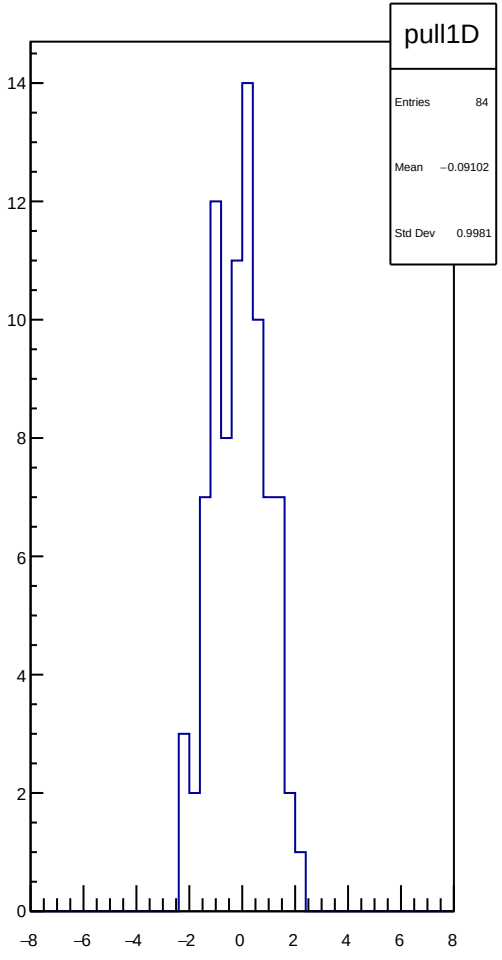

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 6031 / 83
p0 7994 ± 6.28
9500
9000
8500
8000
7500
7000
6500

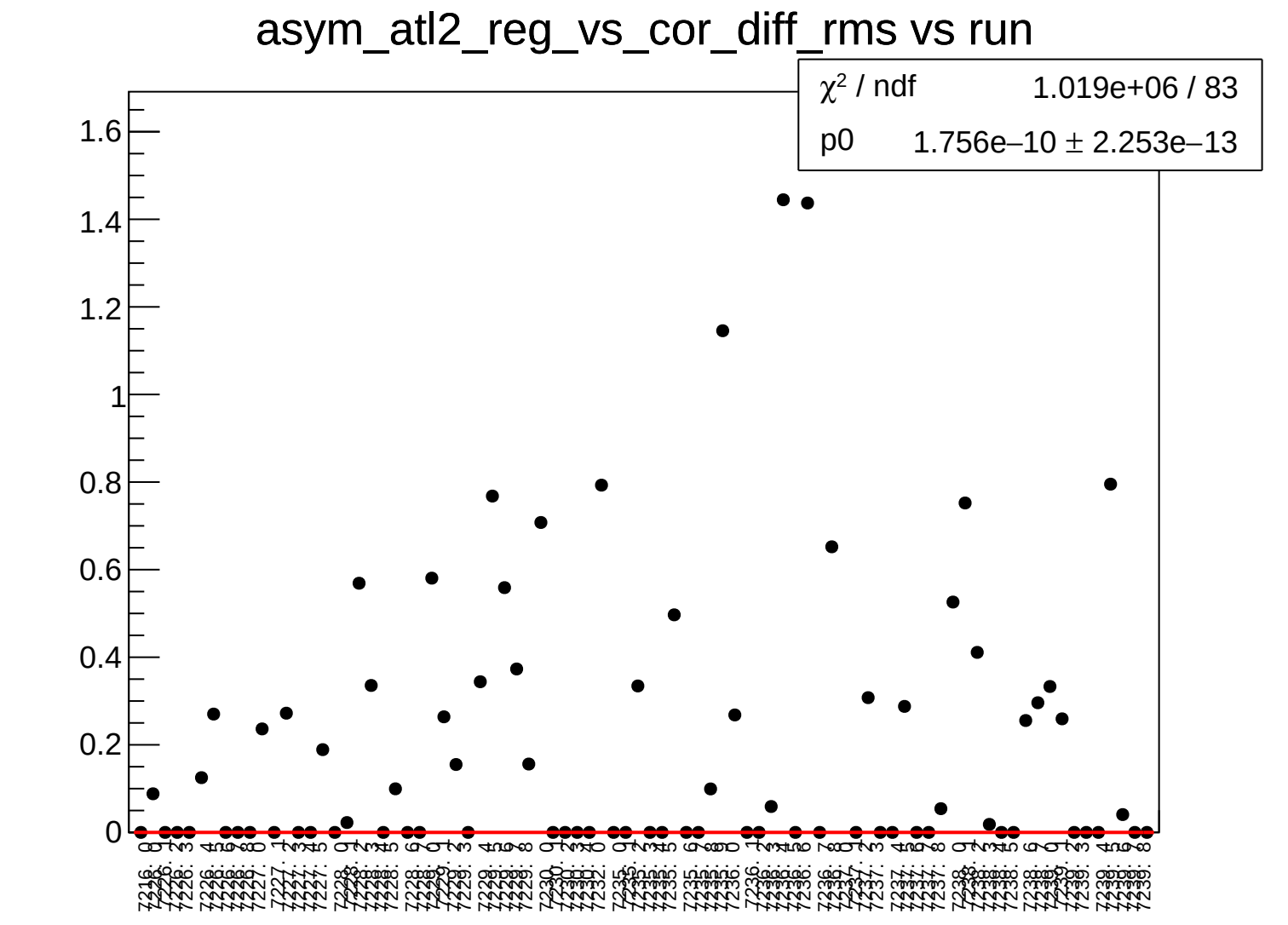

asym_atl2_mean vs run
×10^3
χ² / ndf 112.7 / 83
p0 −9197 ± 9966
pull
Entries 84
Mean −163.8
Std Dev 0

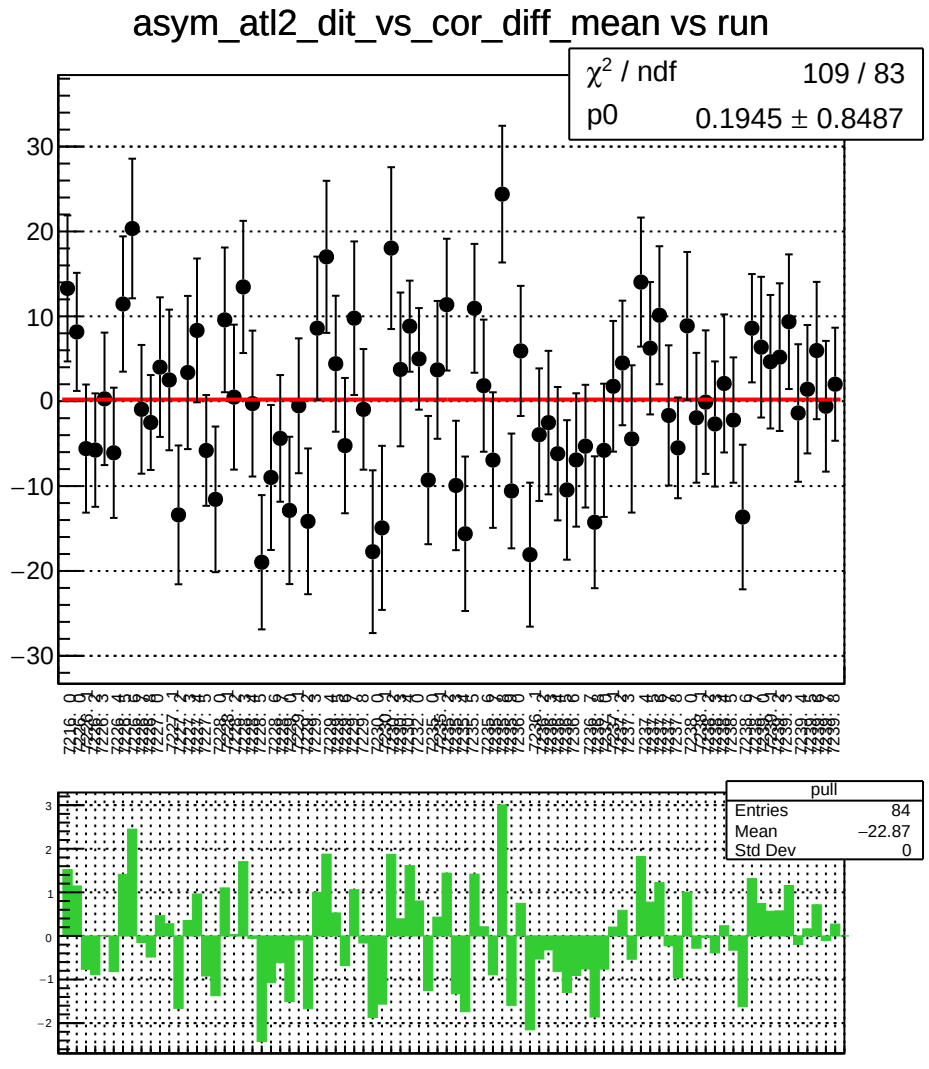

pull1D
Entries 84
Mean 0.005987
Std Dev 1.158

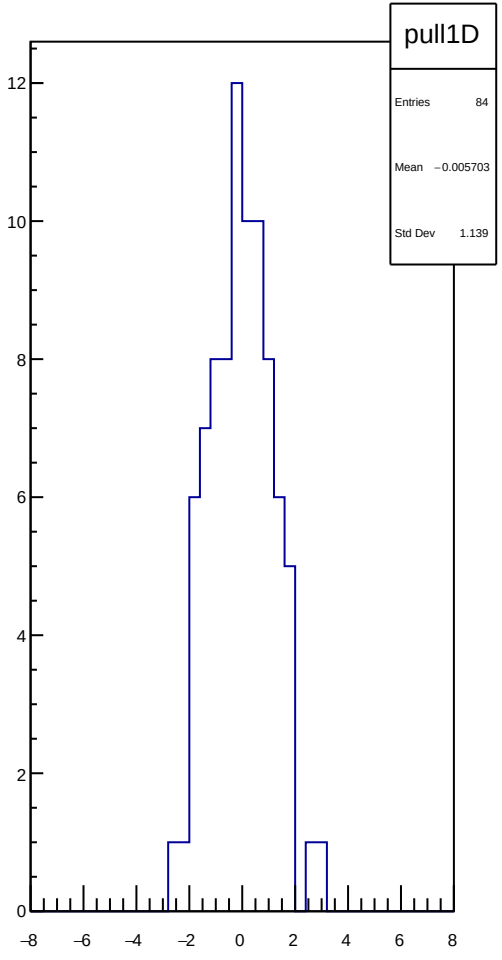

asym_atl2_rms vs run
χ^2 / ndf 5391 / 83
p0 8972 ± 7.047
10500
10000
9500
9000
8500
8000
7500

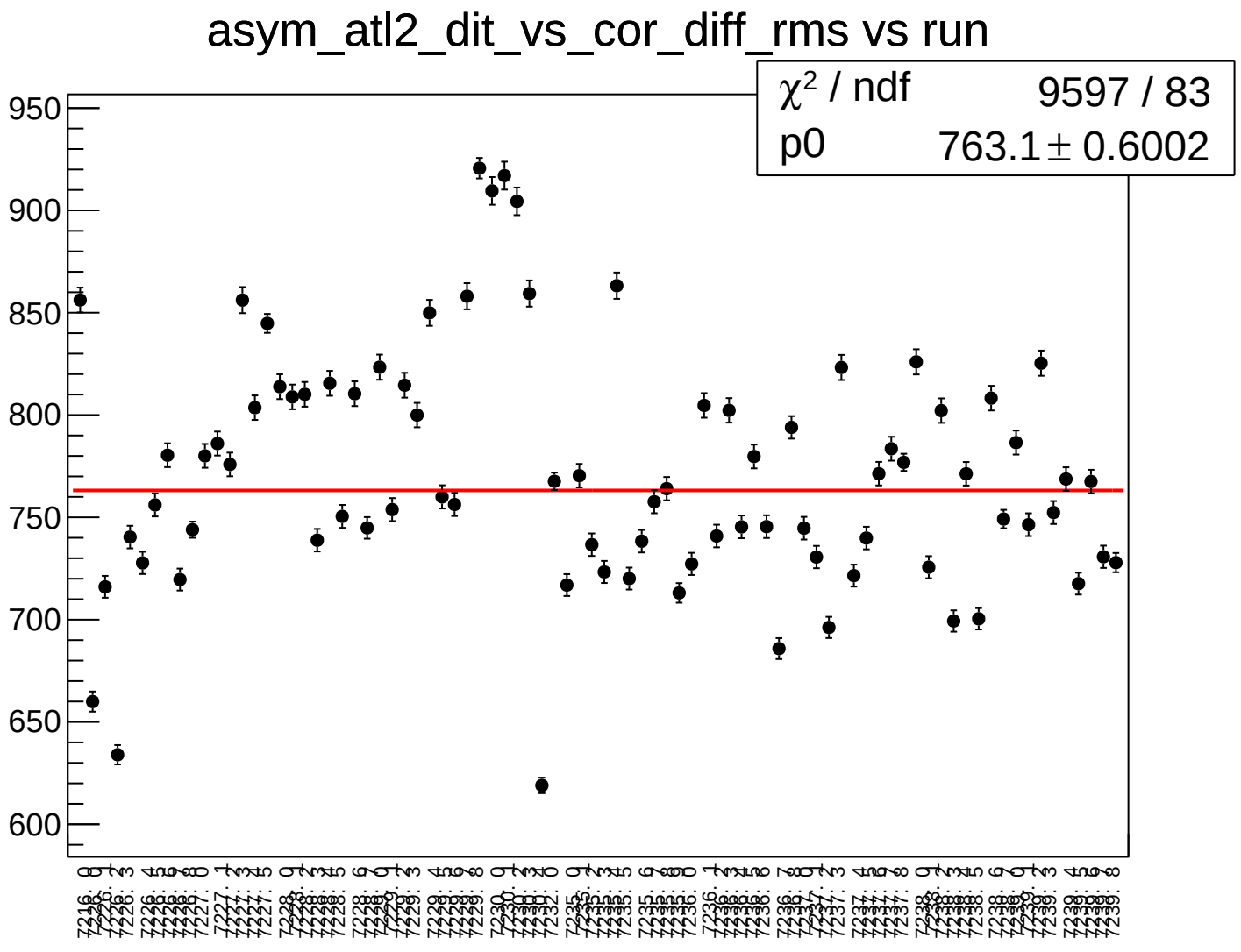

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 84.37 / 83
p0 −2.512e−13 ± 3.187e−13
pull
Entries 84
Mean 14.18
Std Dev 13.42

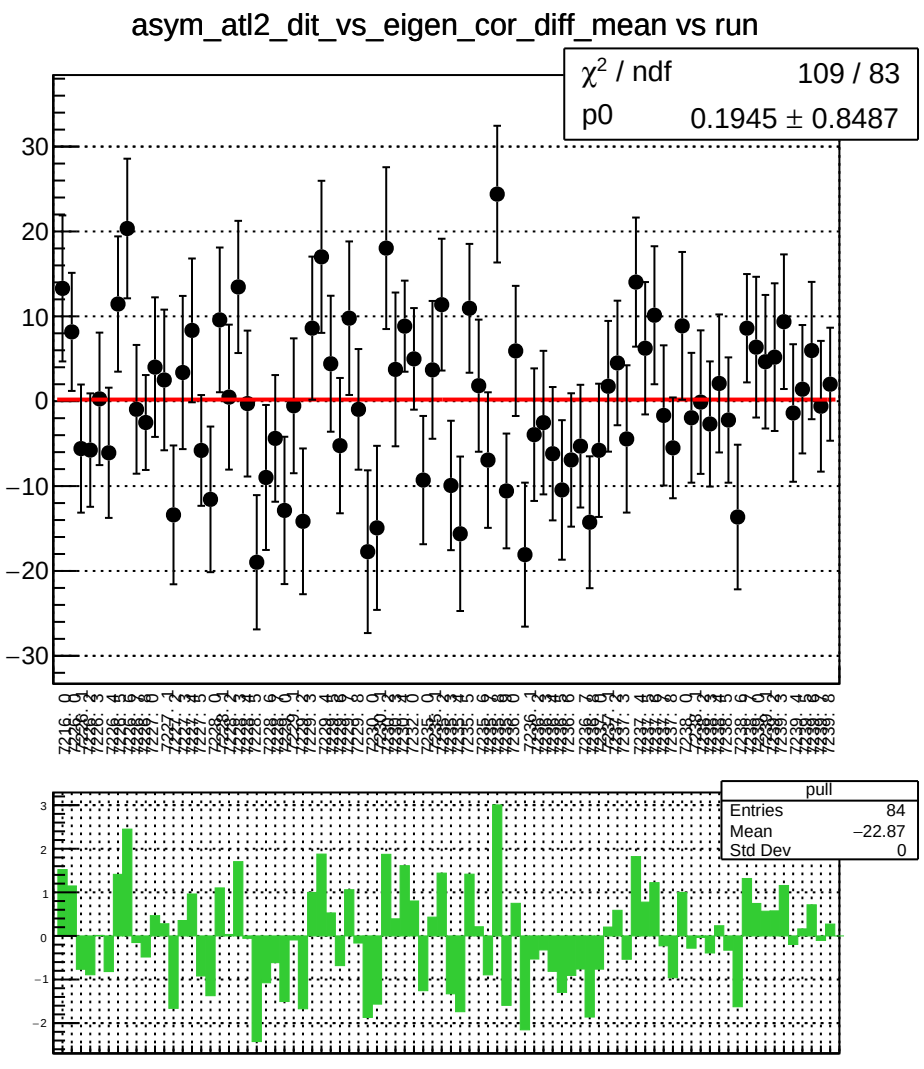

pull1D
Entries 84
Mean −0.09102
Std Dev 0.9981

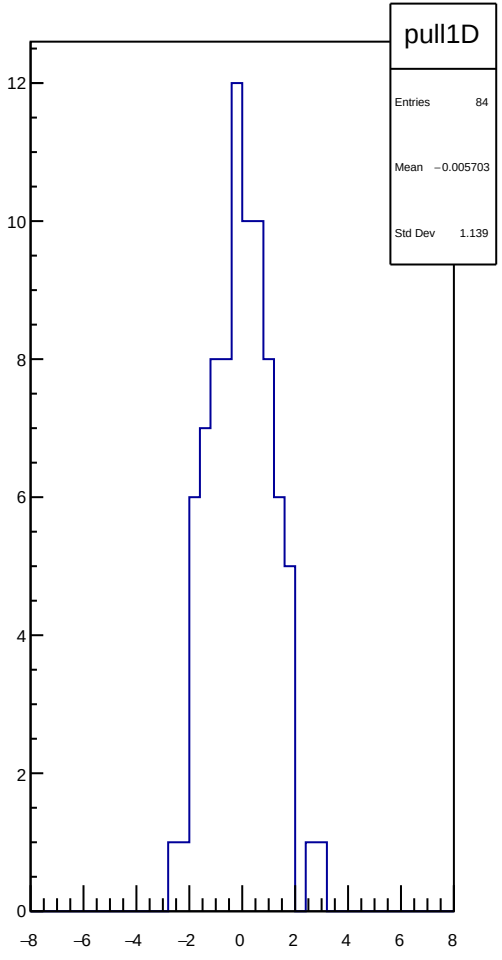

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.019e+06 / 83
p0 1.756e−10 ± 2.253e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

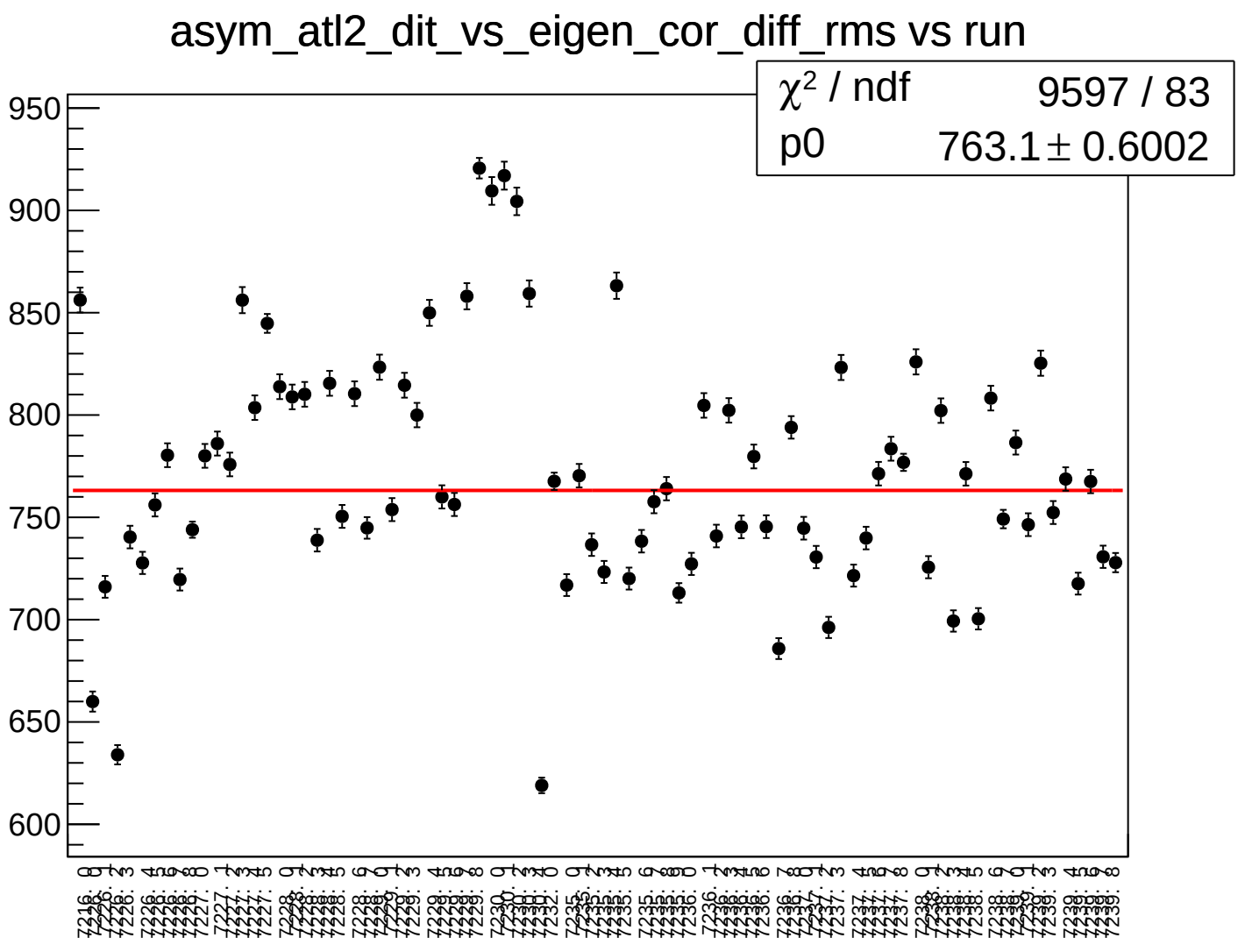

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 109 / 83
p0 0.1945 ± 0.8487
pull
Entries 84
Mean −22.87
Std Dev 0

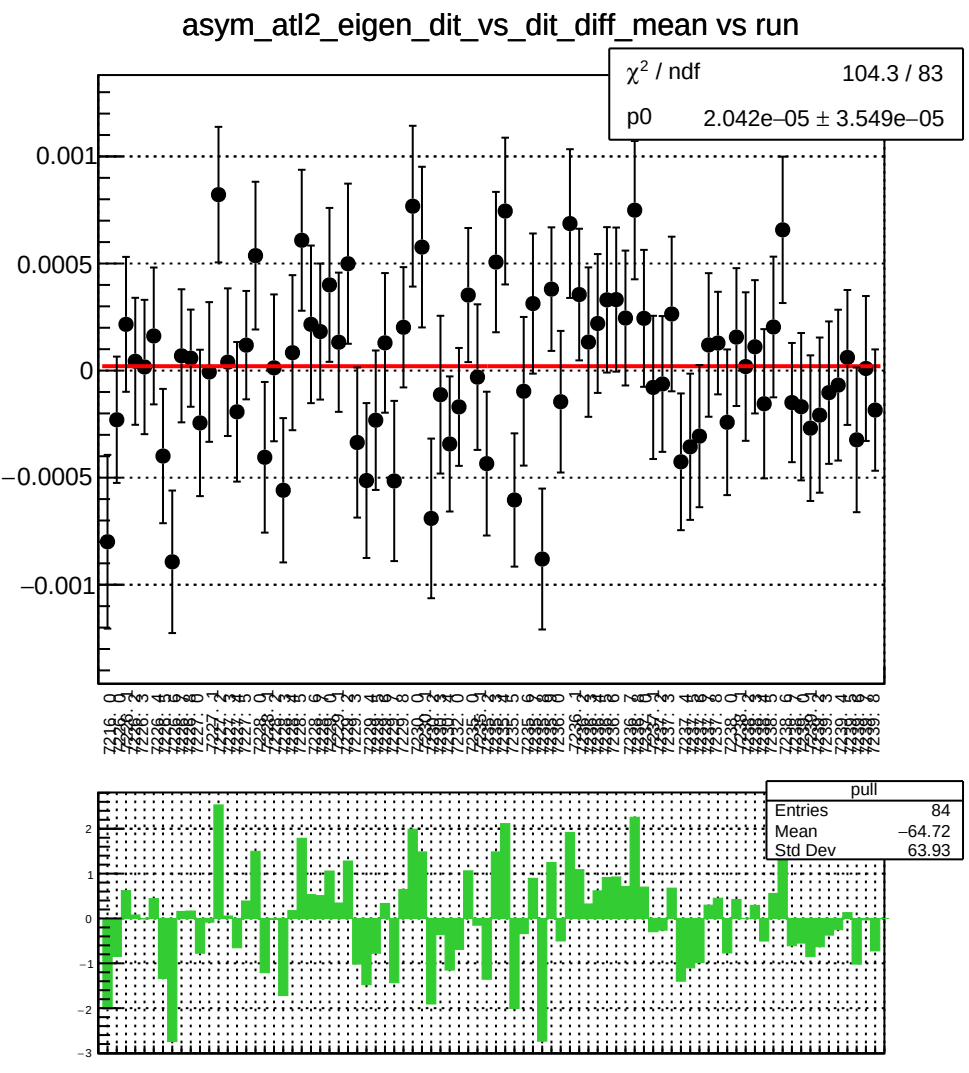

pull1D
Entries 84
Mean −0.005703
Std Dev 1.139

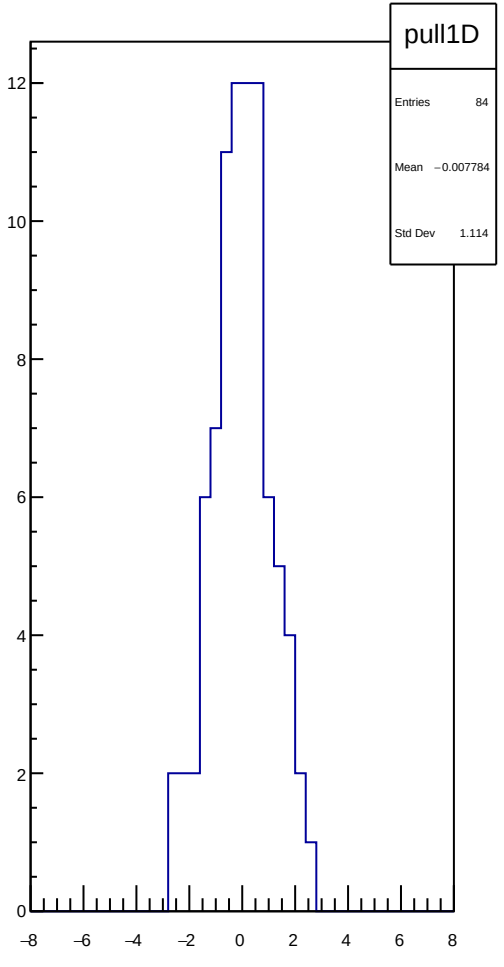

asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 9597 / 83
p0 763.1 ± 0.6002
950
900
850
800
750
700
650
600

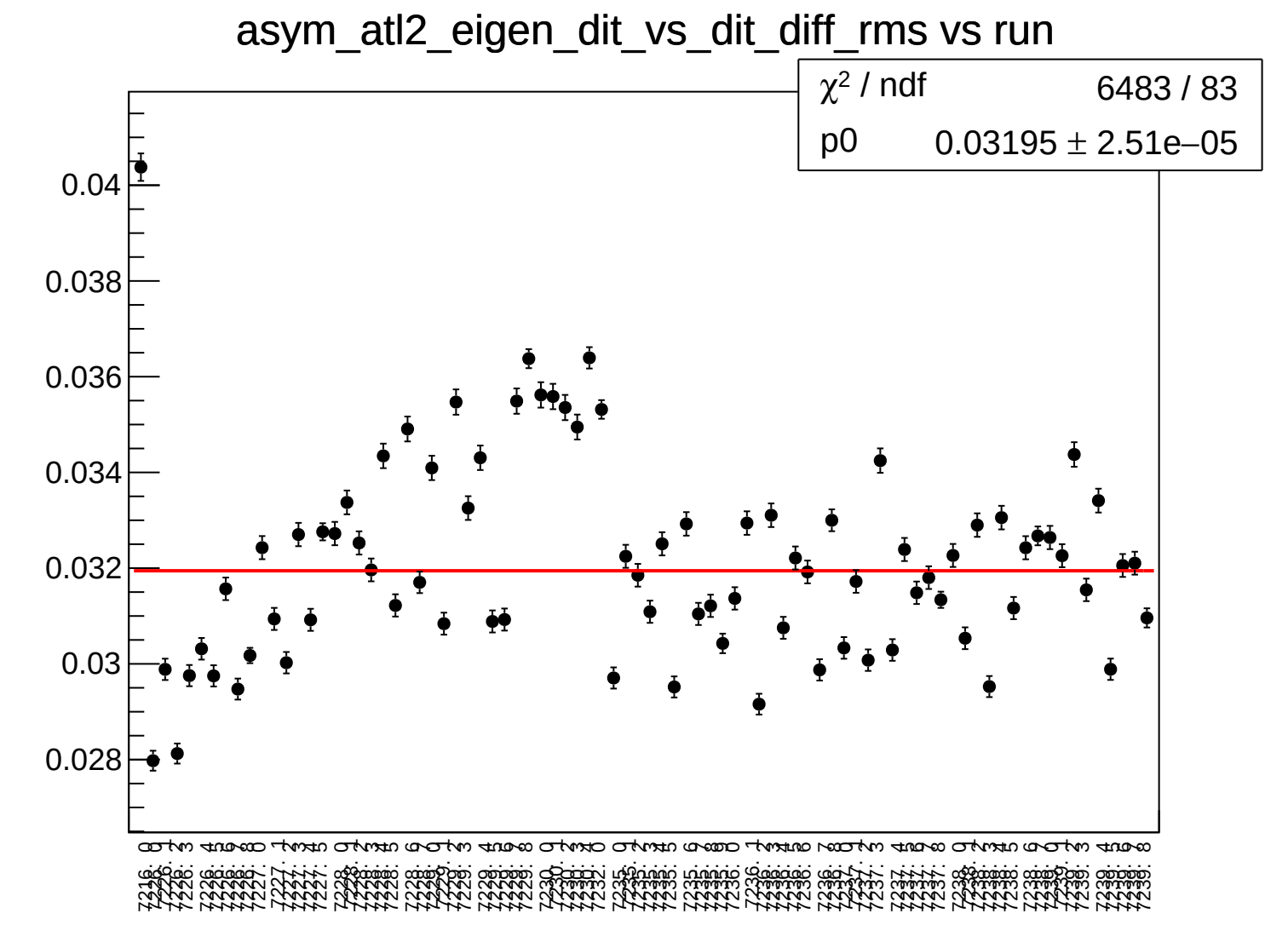

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109 / 83
p0 0.1945 ± 0.8487
pull
Entries 84
Mean −22.87
Std Dev 0

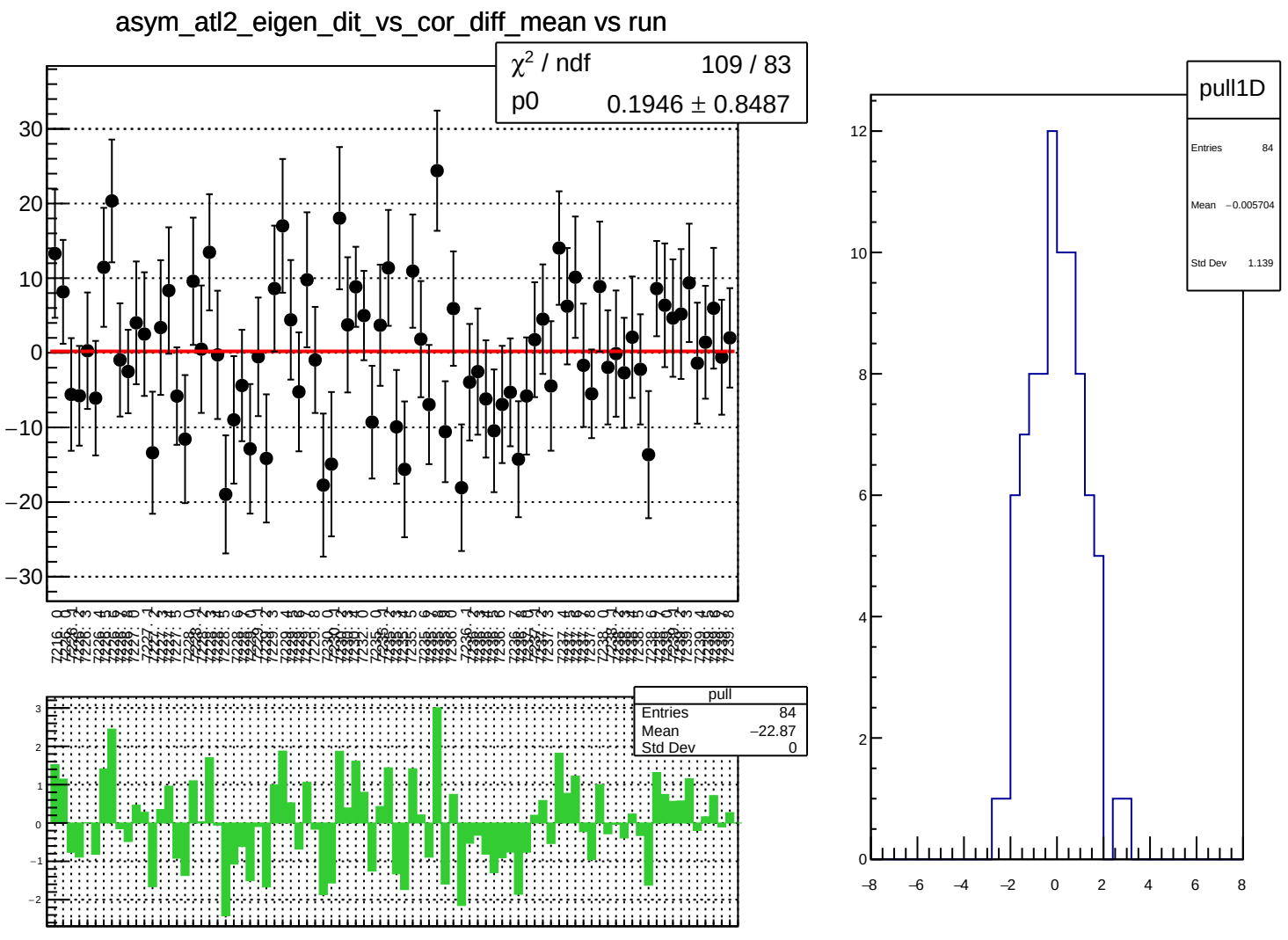

pull1D
Entries 84
Mean −0.005703
Std Dev 1.139

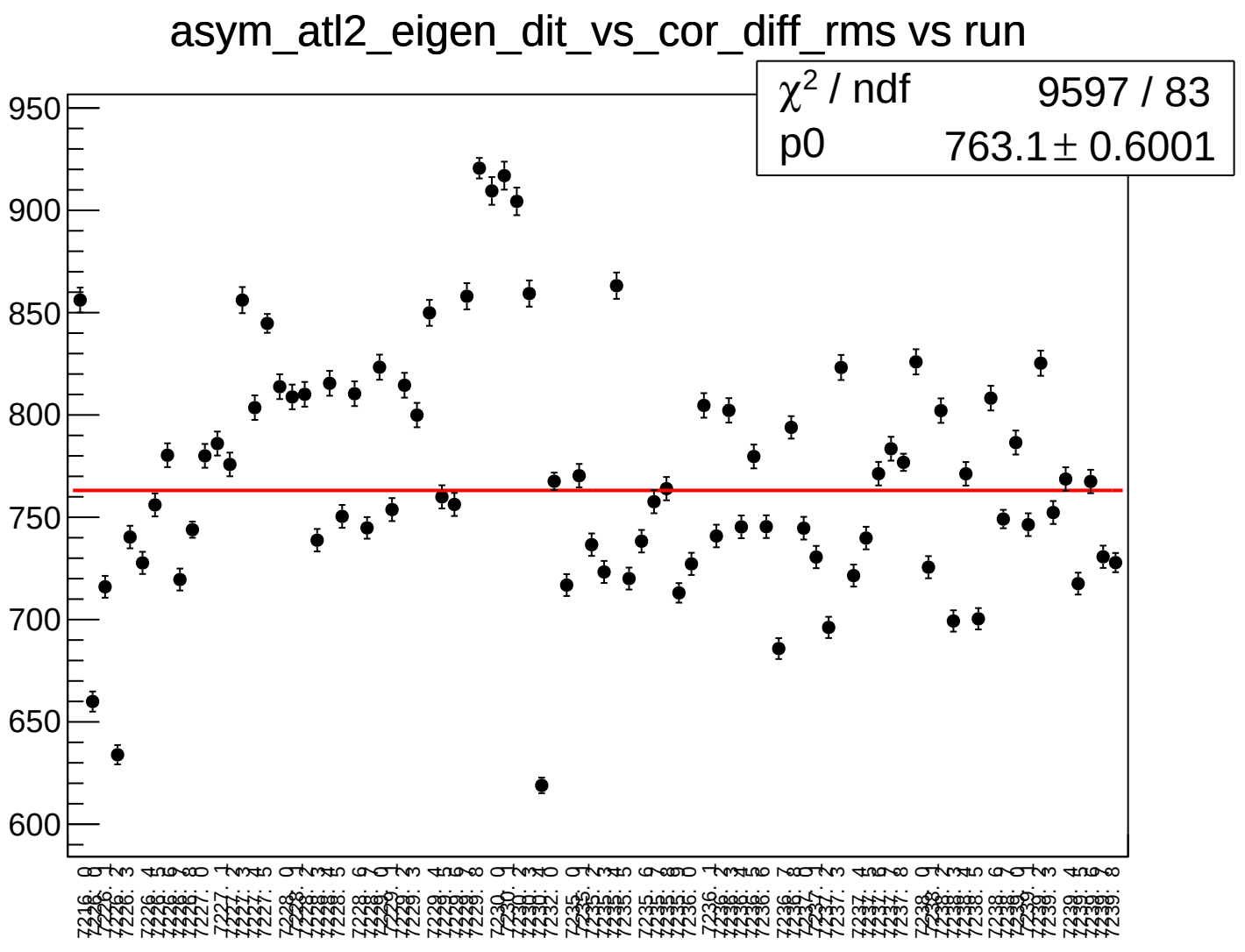

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9597 / 83
p0 763.1 ± 0.6002
950
900
850
800
750
700
650
600

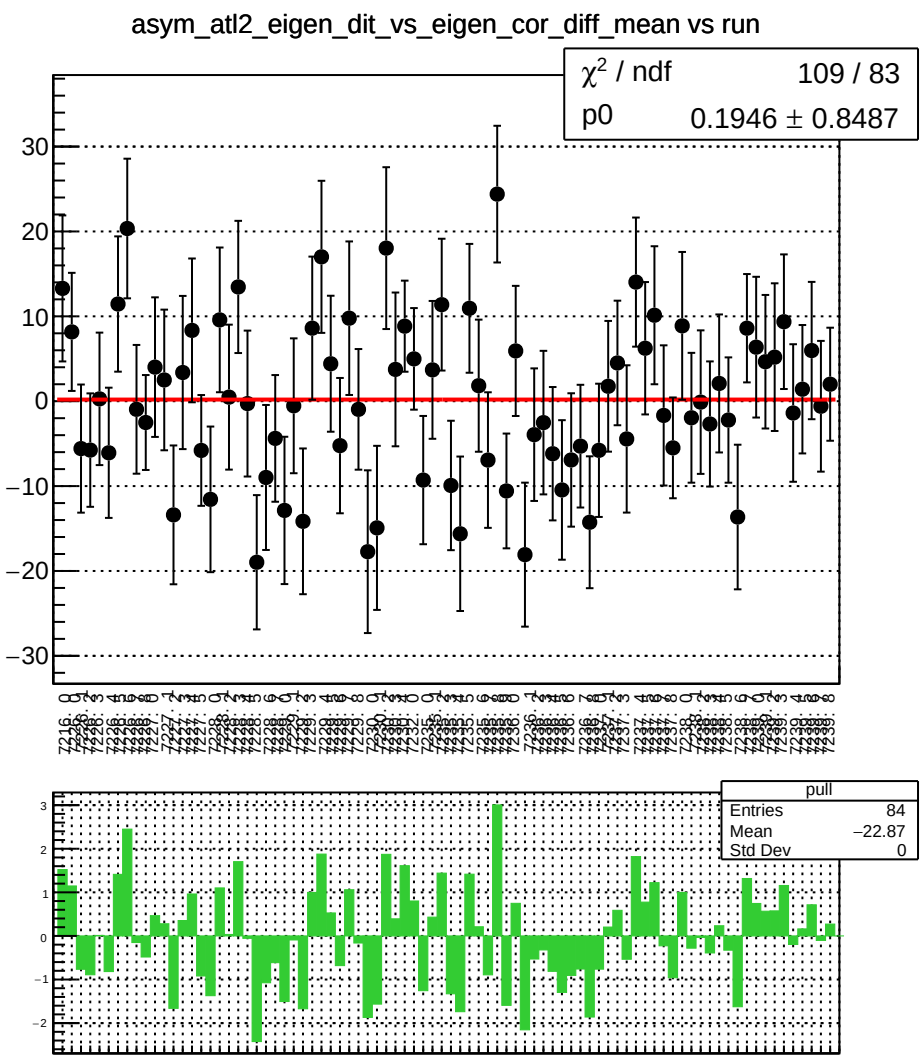

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 104.3 / 83
p0 2.042e−05 ± 3.549e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 84
Mean −64.72
Std Dev 63.93

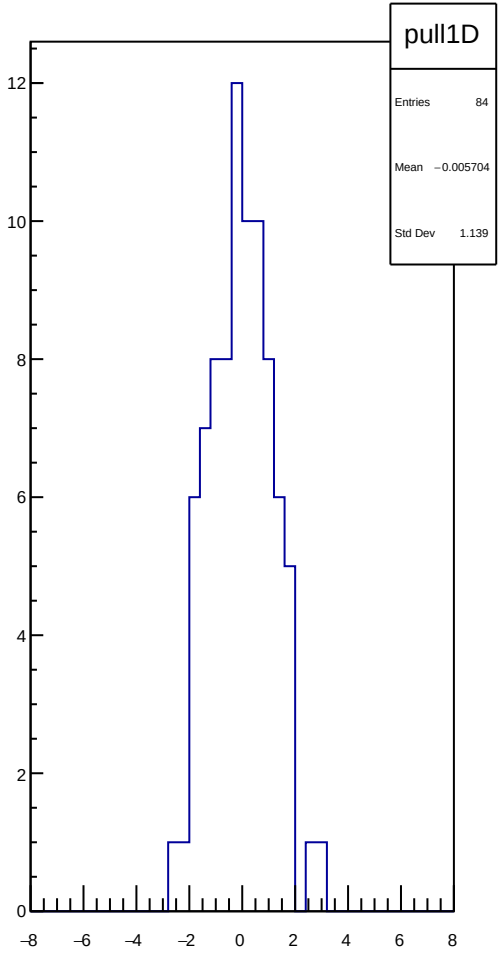

pull1D
Entries 84
Mean −0.007784
Std Dev 1.114

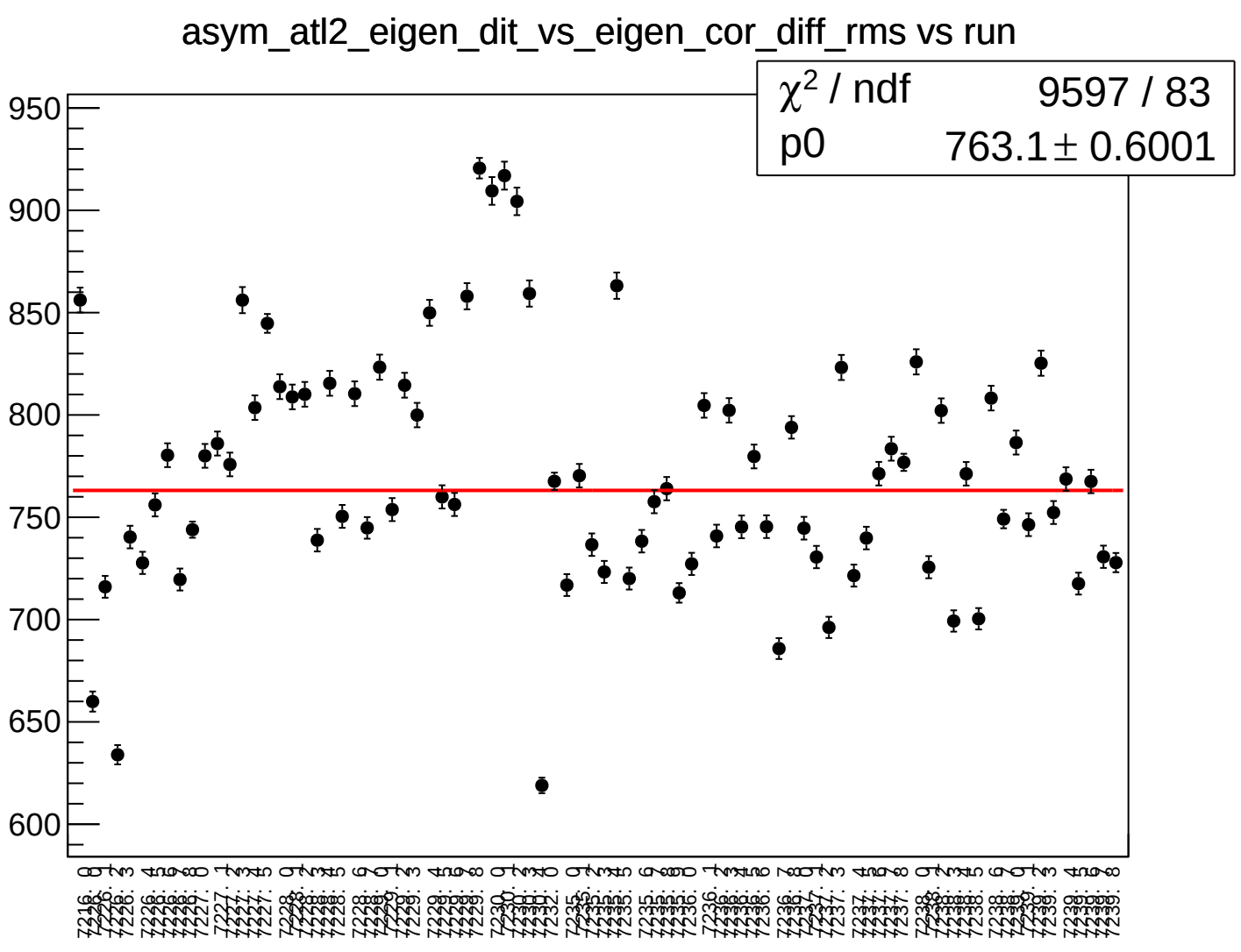

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6483 / 83
p0 0.03195 ± 2.51e−05
0.04
0.038
0.036
0.034
0.032
0.03
0.028

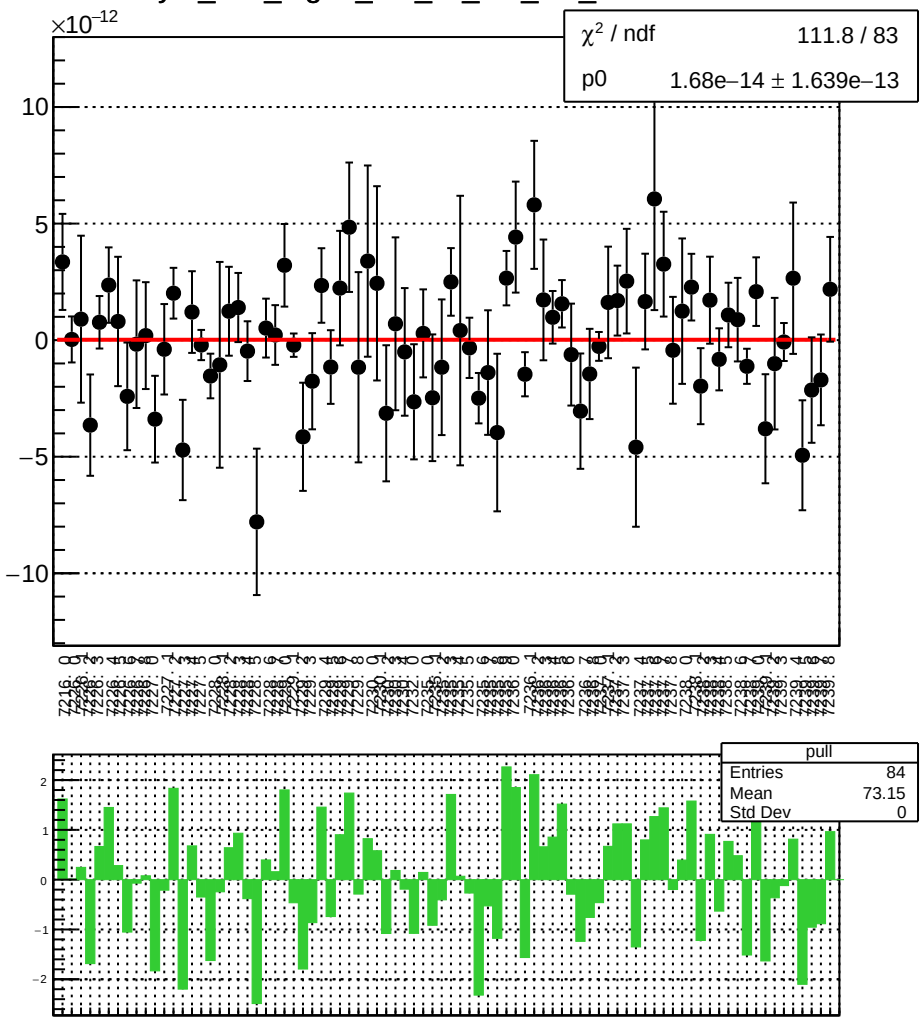

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 109 / 83
p0 0.1946 ± 0.8487
pull
Entries 84
Mean −22.87
Std Dev 0
pull1D
Entries 84
Mean −0.005704
Std Dev 1.139

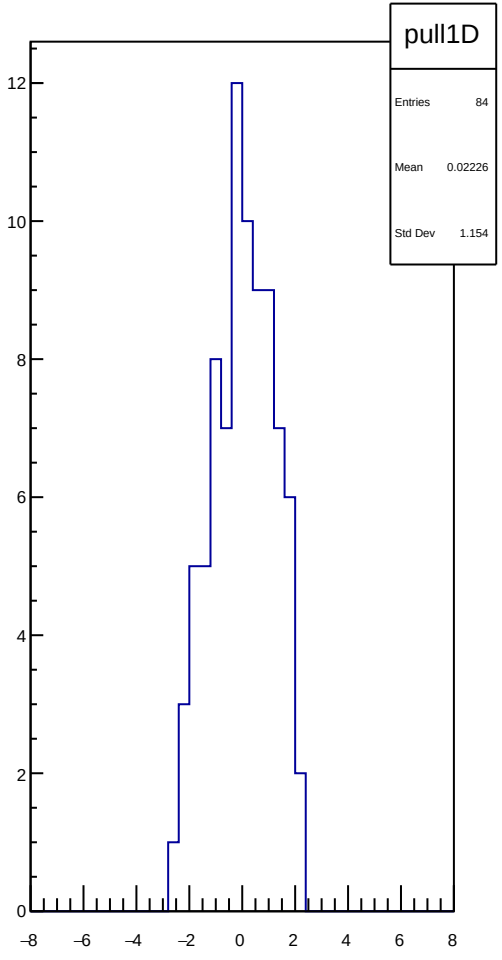

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9597 / 83
p0 763.1 ± 0.6001
950
900
850
800
750
700
650
600

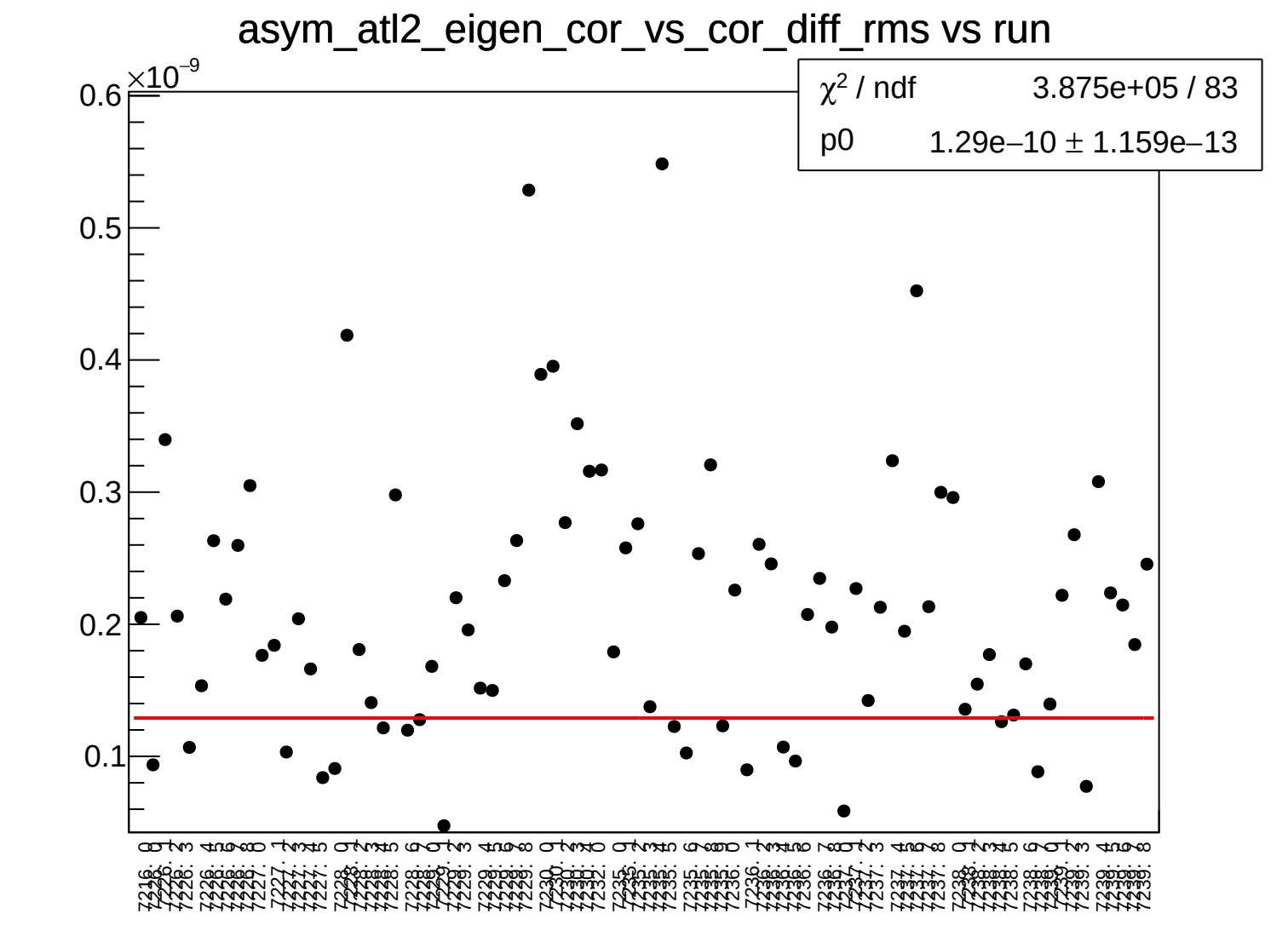

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109 / 83
p0 0.1946 ± 0.8487
pull
Entries 84
Mean −22.87
Std Dev 0

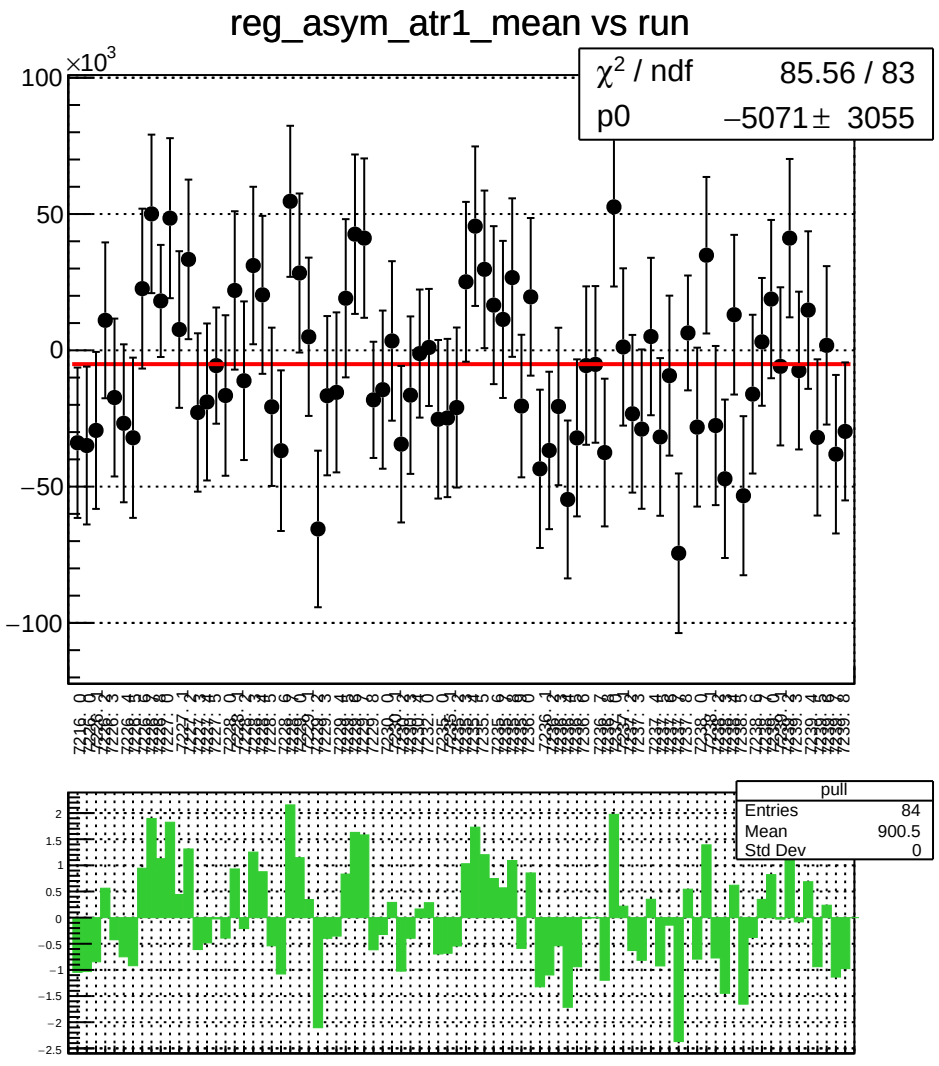

pull1D
Entries 84
Mean −0.005704
Std Dev 1.139

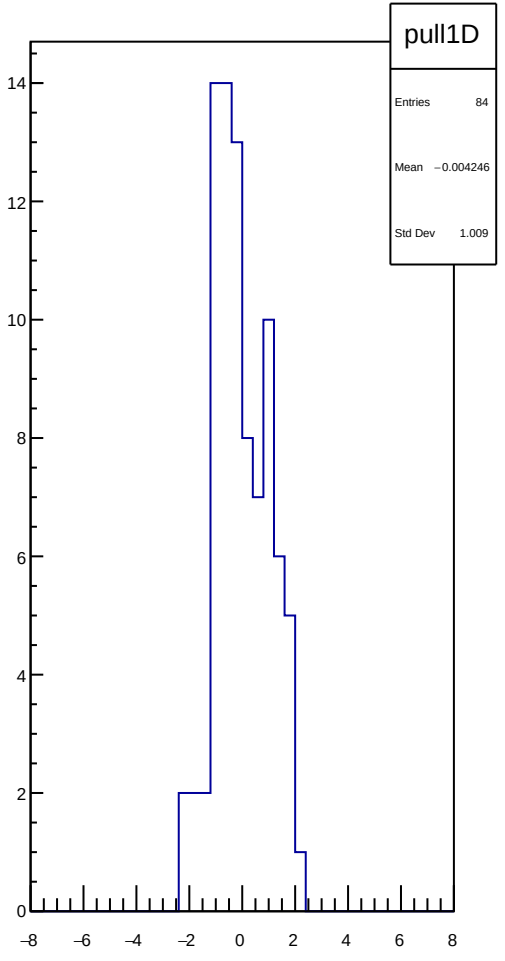

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9597 / 83
p0 763.1 ± 0.6001
950
900
850
800
750
700
650
600

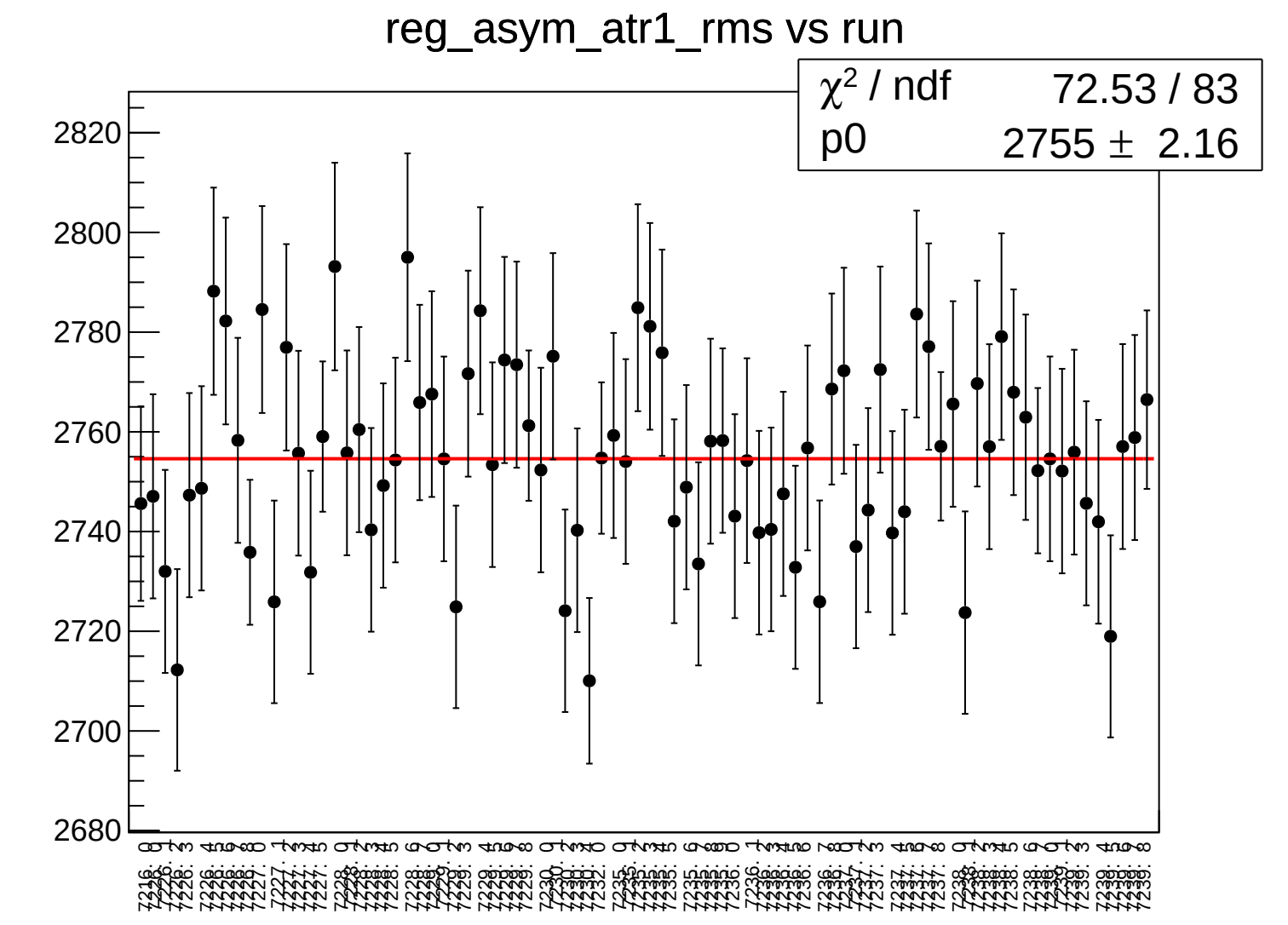

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 111.8 / 83
p0 1.68e−14 ± 1.639e−13
10
5
0
−5
−10
pull
Entries 84
Mean 73.15
Std Dev 0
2
1
0
−1
−2

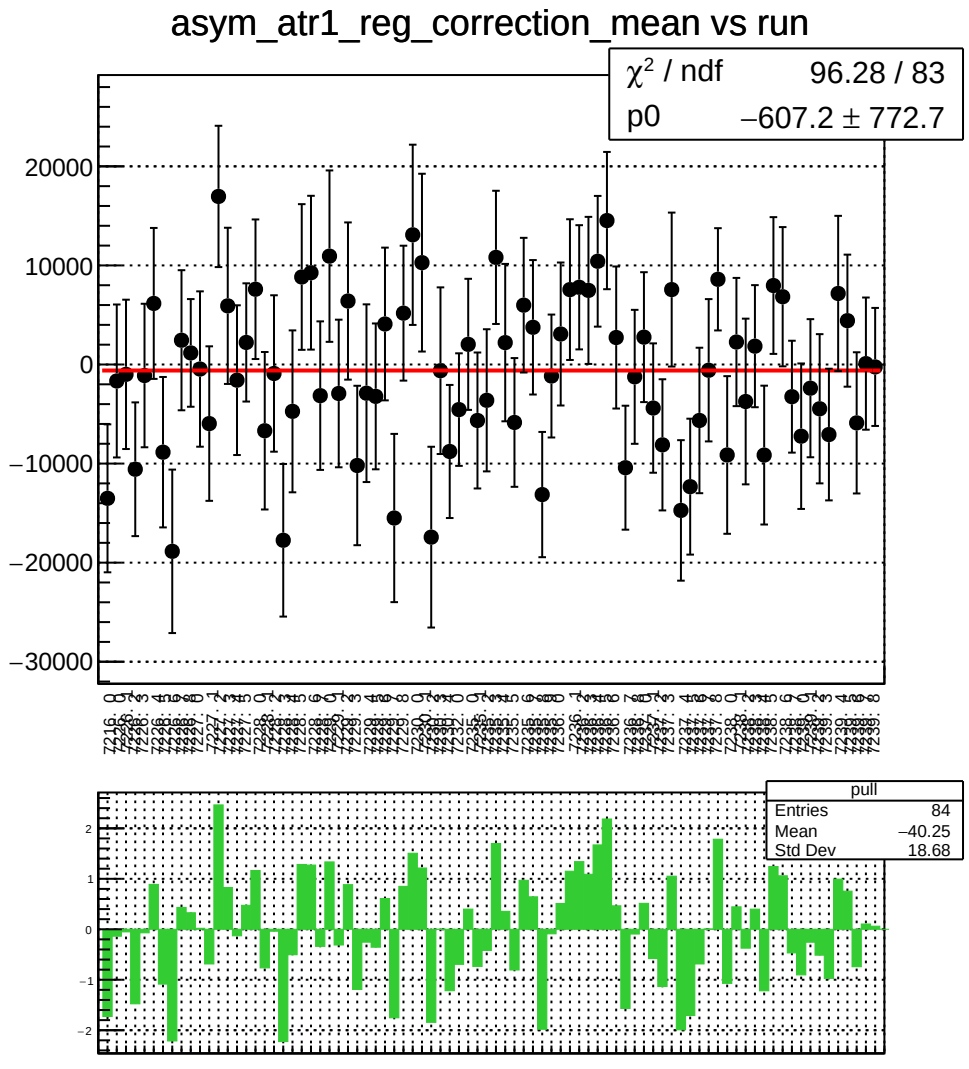

pull1D
Entries 84
Mean 0.02226
Std Dev 1.154
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

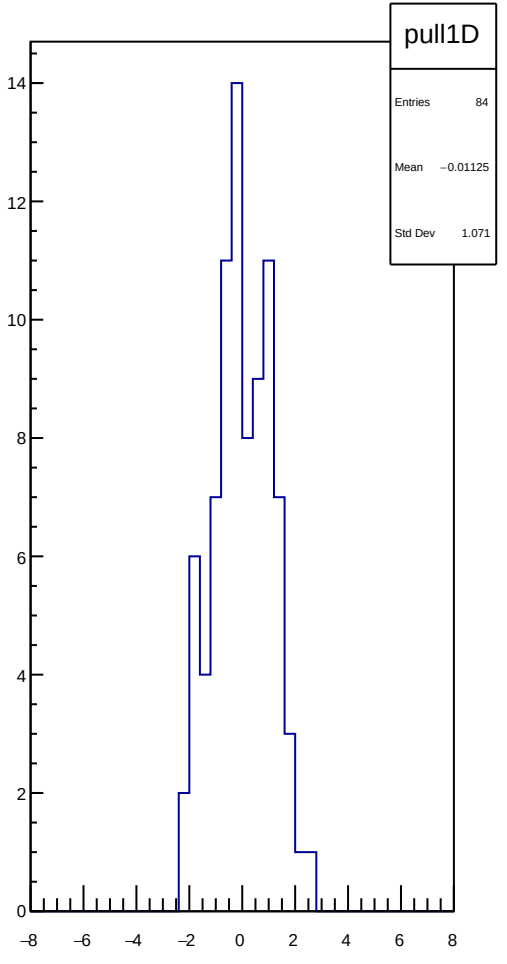

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 3.875e+05 / 83
p0 1.29e−10 ± 1.159e−13

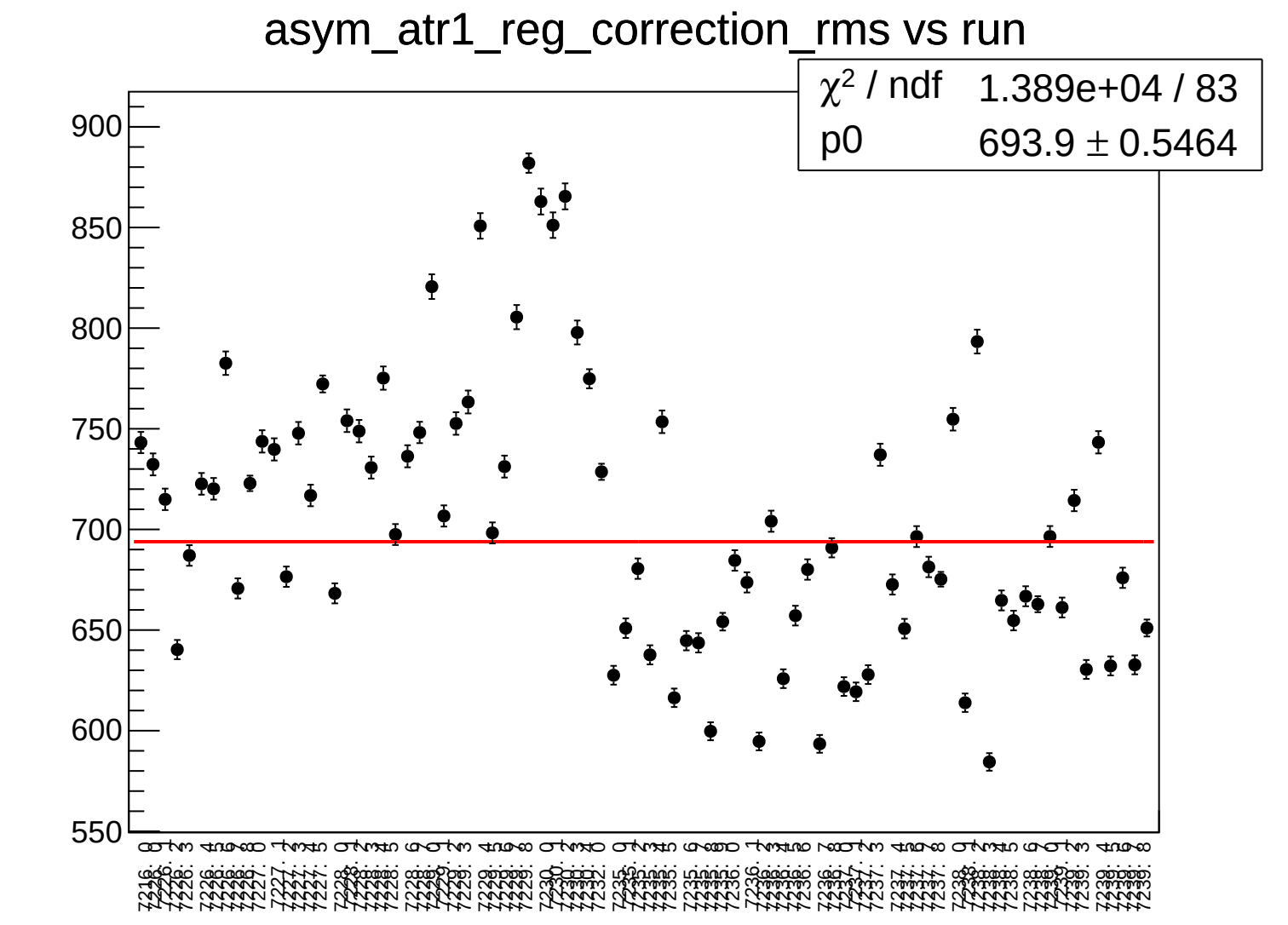

reg_asym_atr1_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 85.56 / 83
p0 −5071 ± 3055
pull
Entries 84
Mean 900.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

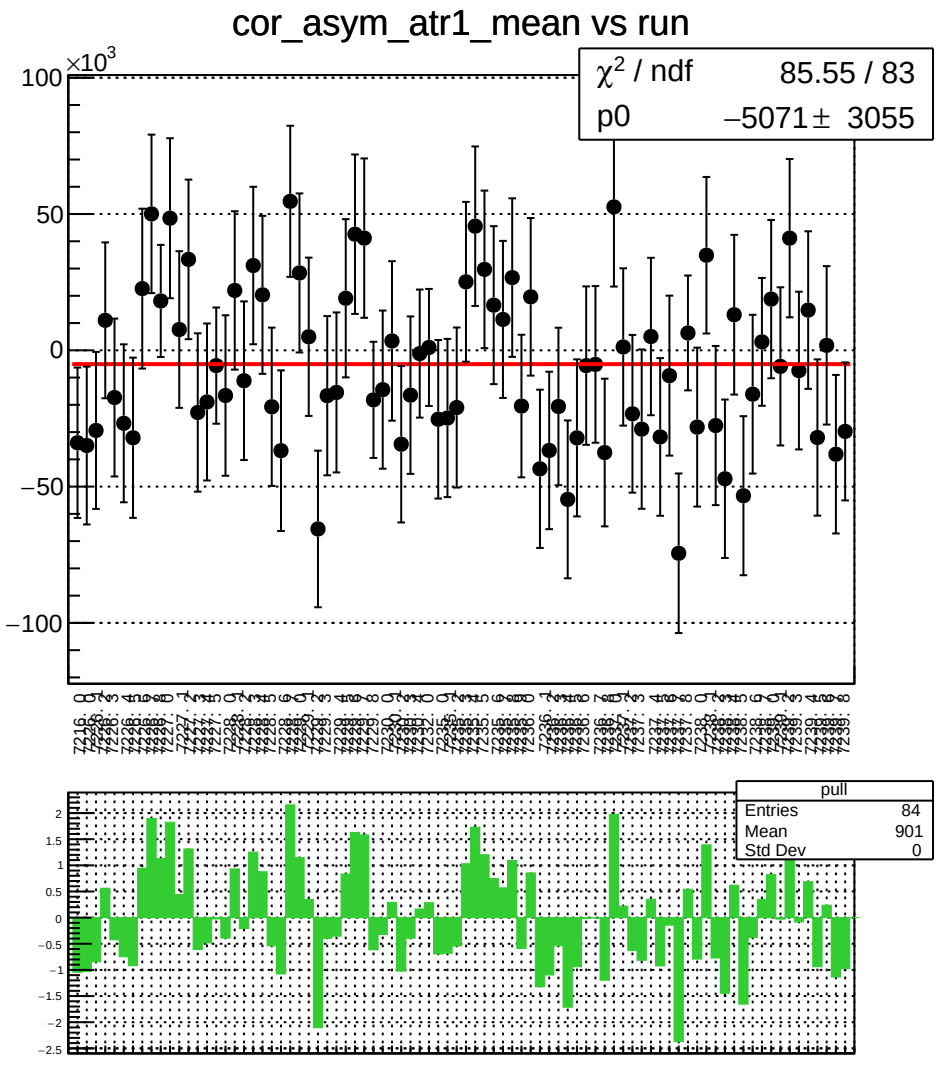

pull1D
Entries 84
Mean −0.004246
Std Dev 1.009
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

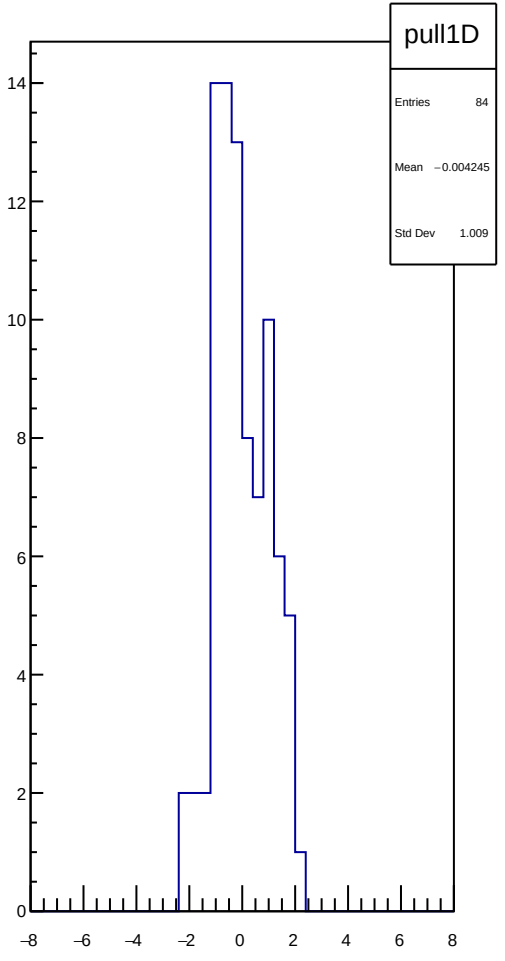

reg_asym_atr1_rms vs run
χ^2 / ndf 72.53 / 83
p0 2755 ± 2.16
2820
2800
2780
2760
2740
2720
2700
2680

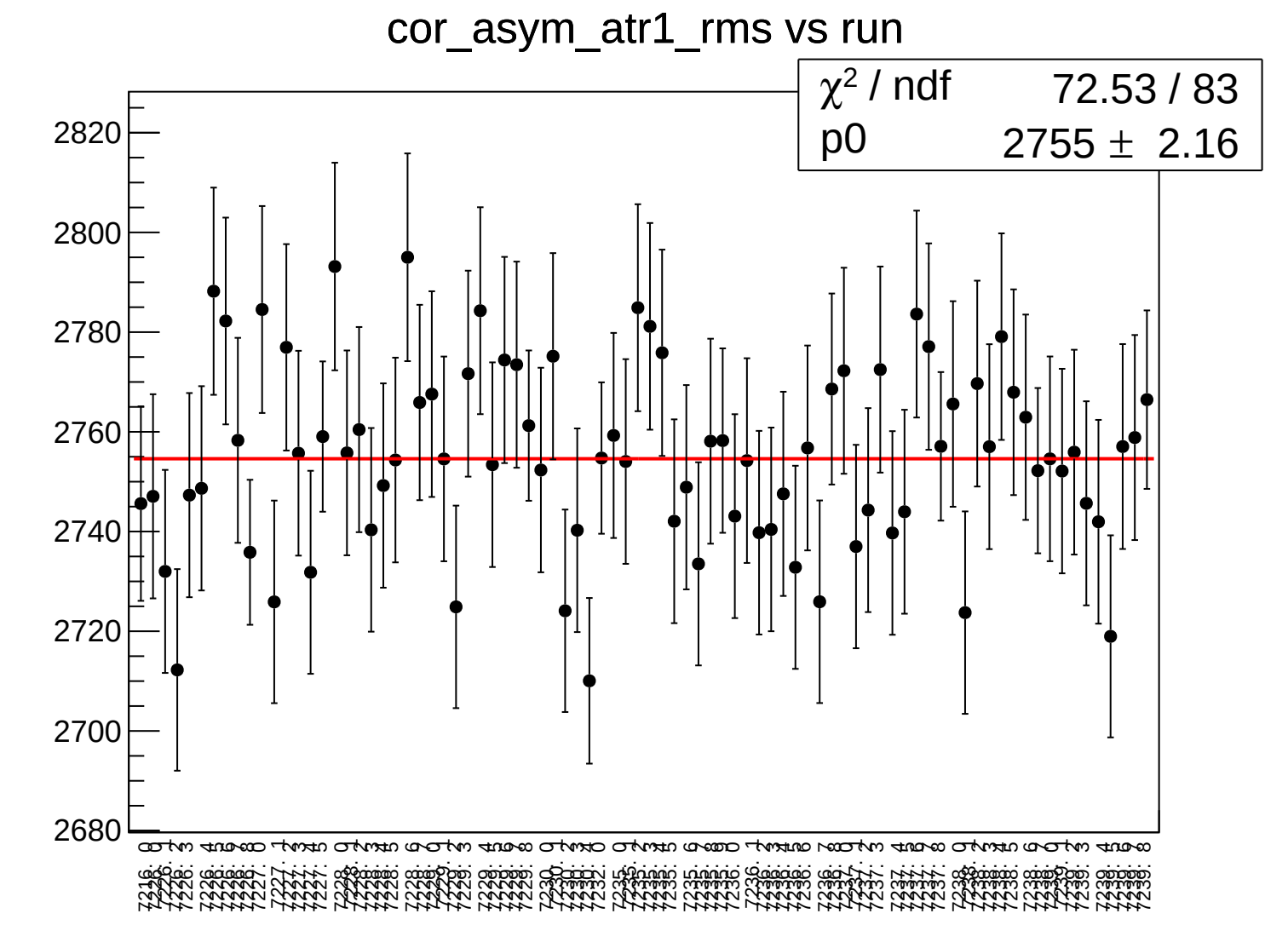

asym_atr1_reg_correction_mean vs run
χ² / ndf 96.28 / 83
p0 −607.2 ± 772.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −40.25
Std Dev 18.68
2
1
0
−1
−2

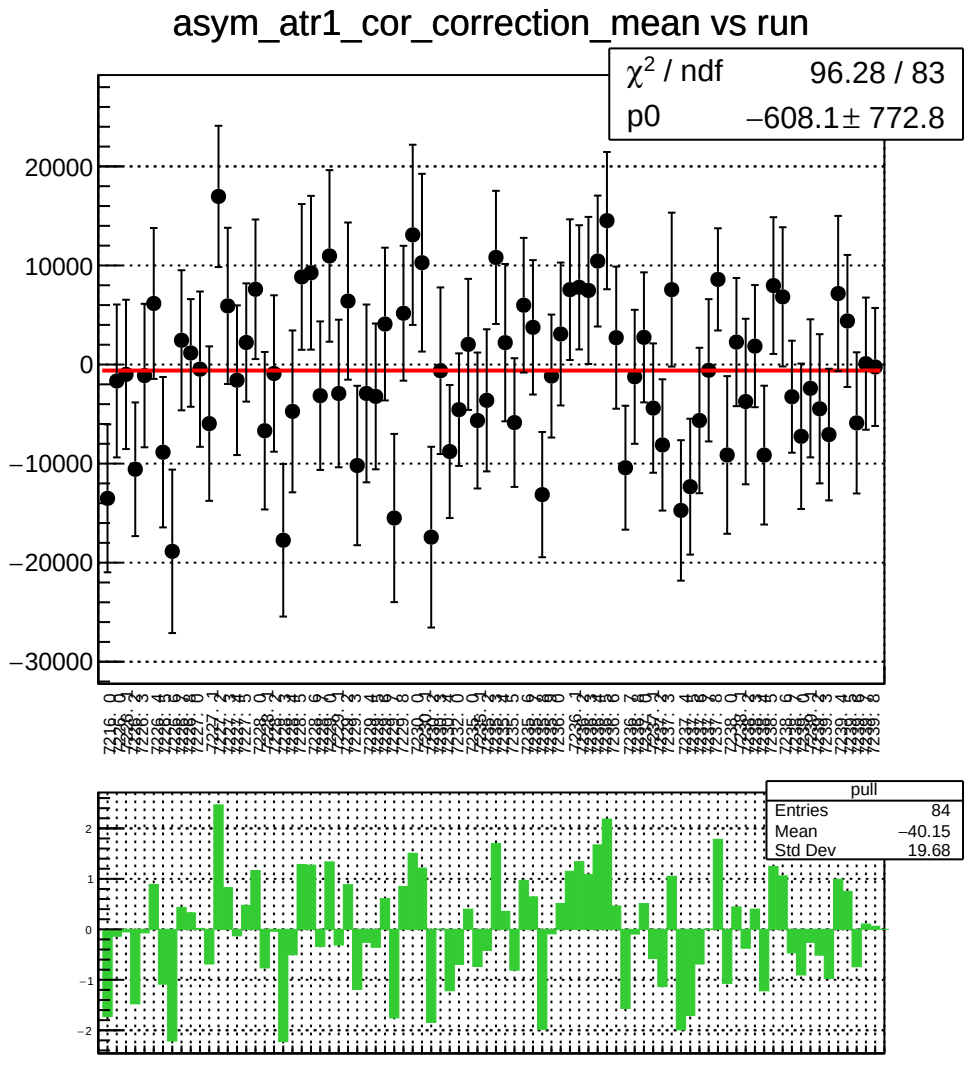

pull1D
Entries 84
Mean −0.01125
Std Dev 1.071
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

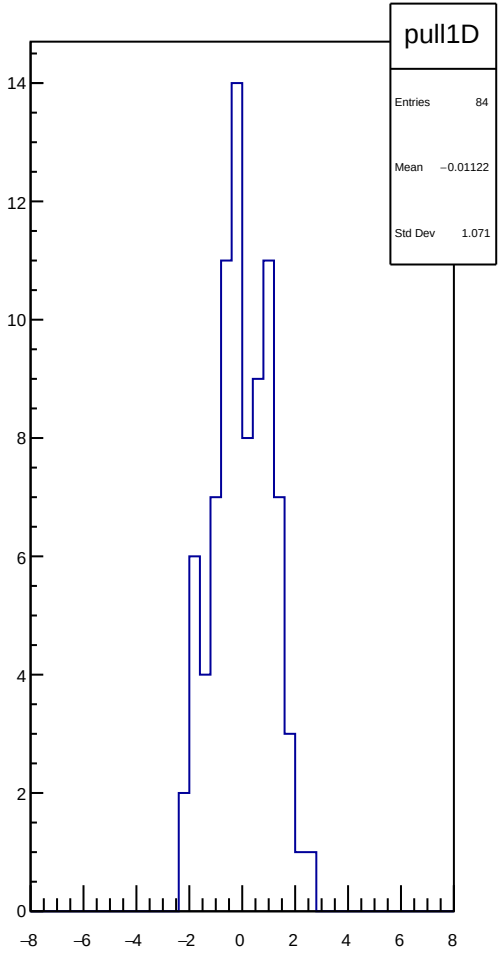

asym_atr1_reg_correction_rms vs run
χ^2 / ndf 1.389e+04 / 83
p0 693.9 ± 0.5464
900
850
800
750
700
650
600
550

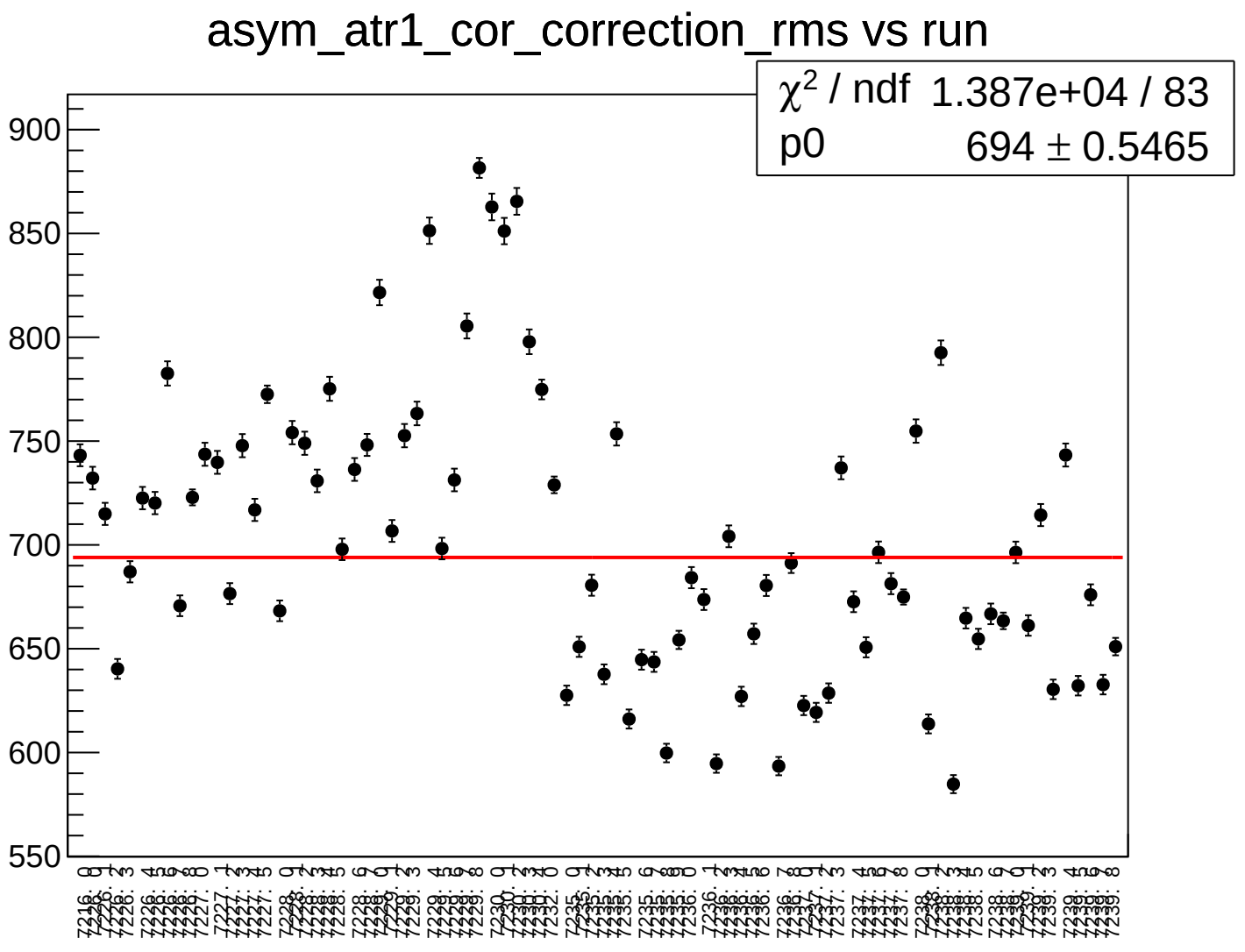

cor_asym_atr1_mean vs run
×10^3
χ² / ndf 85.55 / 83
p0 −5071 ± 3055
100
50
0
−50
−100
pull
Entries 84
Mean 901
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

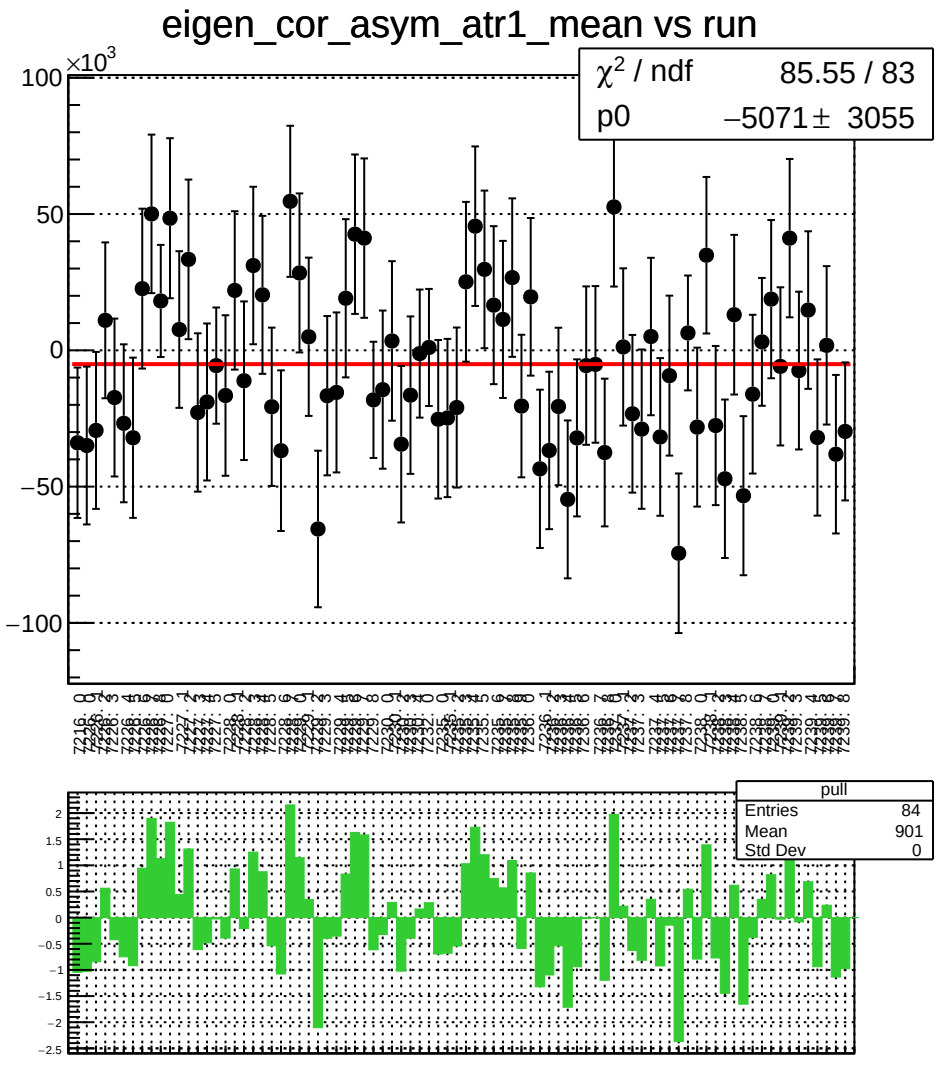

pull1D
Entries 84
Mean −0.004245
Std Dev 1.009
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

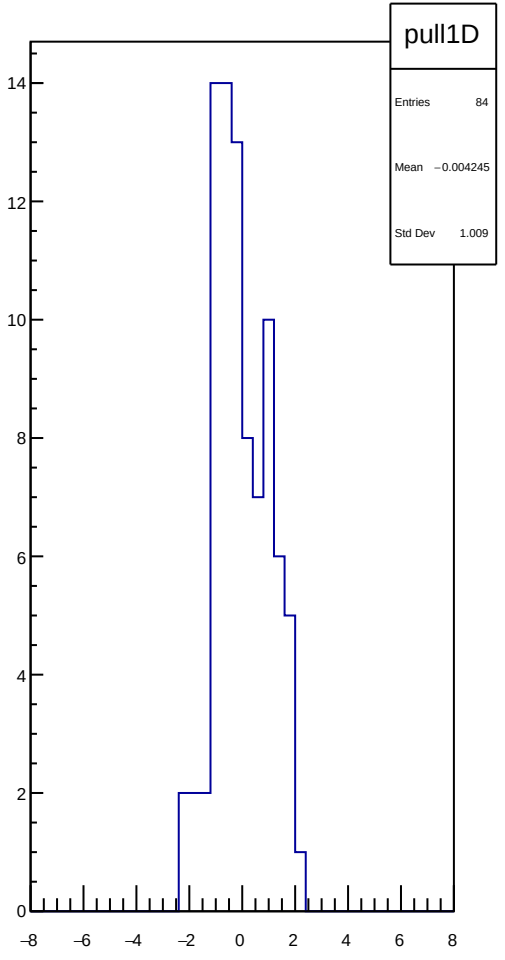

cor_asym_atr1_rms vs run
χ² / ndf 72.53 / 83
p0 2755 ± 2.16
2820
2800
2780
2760
2740
2720
2700
2680

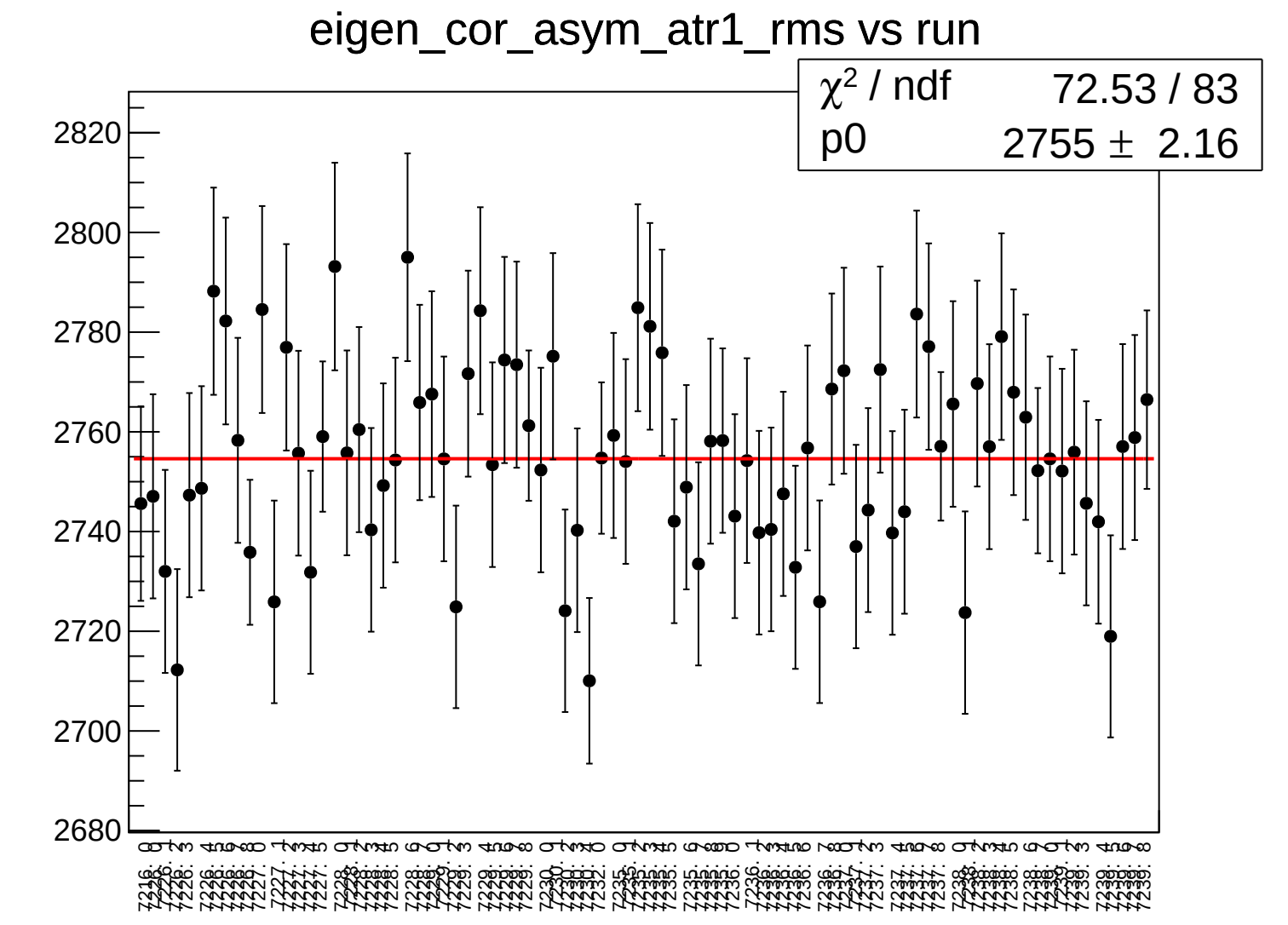

asym_atr1_cor_correction_mean vs run
χ² / ndf 96.28 / 83
p0 −608.1± 772.8
pull
Entries 84
Mean −40.15
Std Dev 19.68

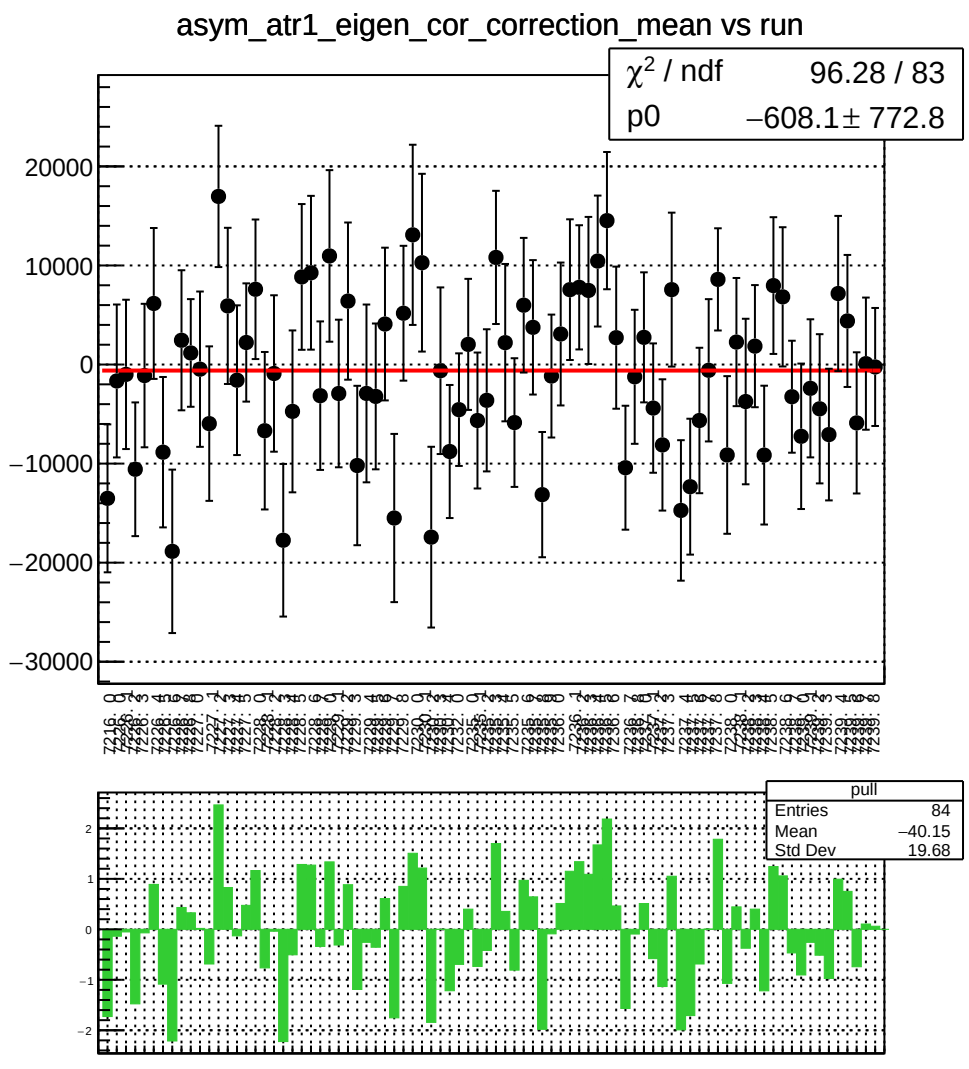

pull1D
Entries 84
Mean −0.01122
Std Dev 1.071

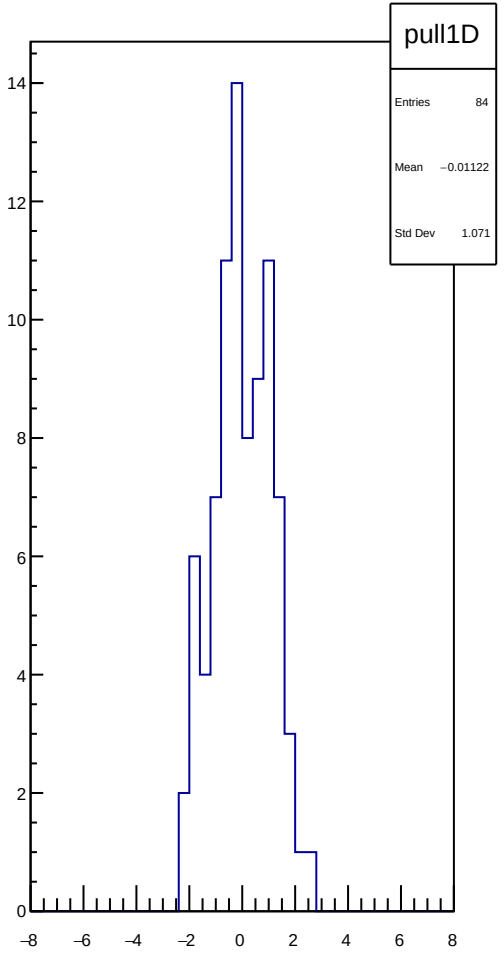

asym_atr1_cor_correction_rms vs run
χ² / ndf 1.387e+04 / 83
p0 694 ± 0.5465
900
850
800
750
700
650
600
550

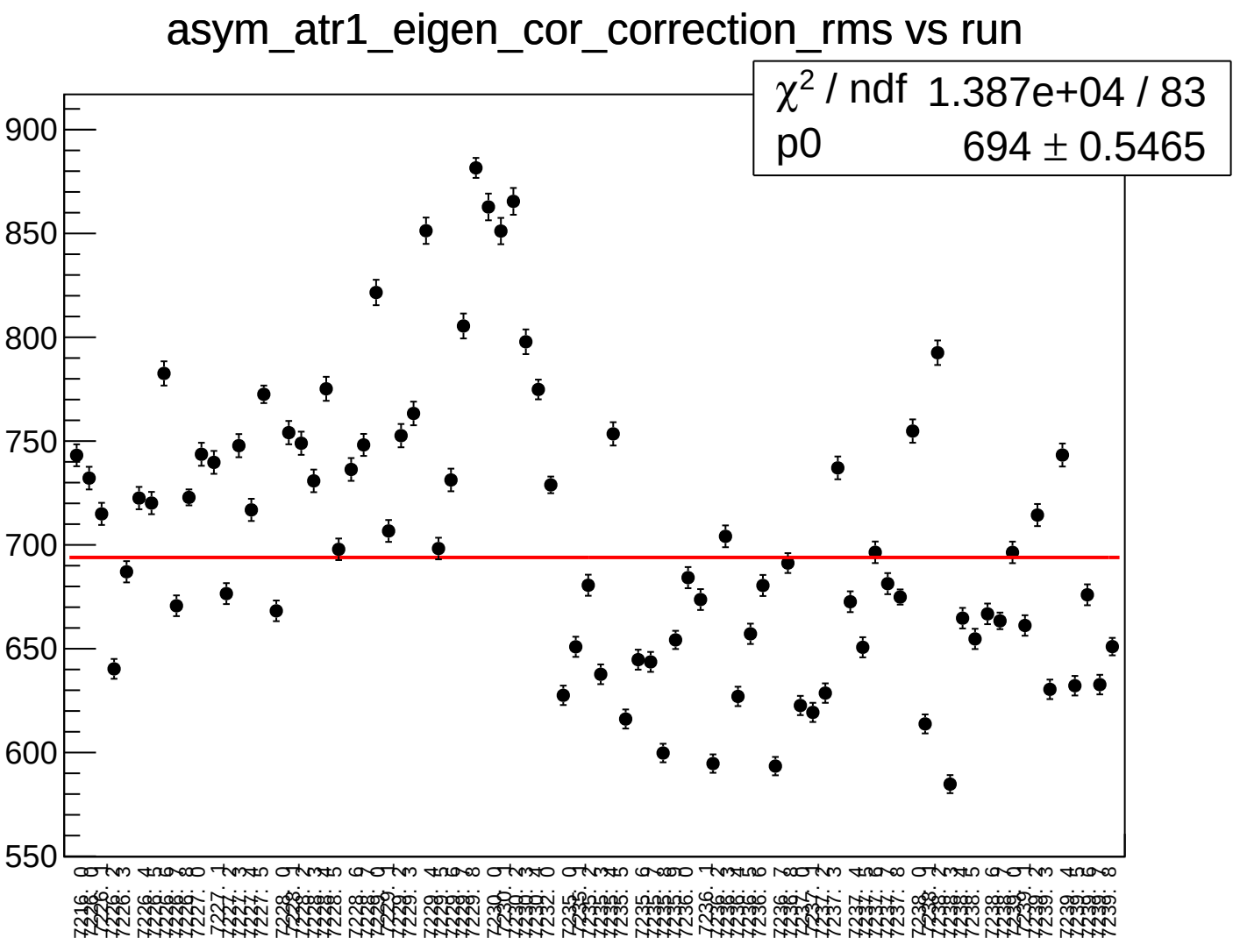

eigen_cor_asym_atr1_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 85.55 / 83
p0 −5071 ± 3055
pull
Entries 84
Mean 901
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

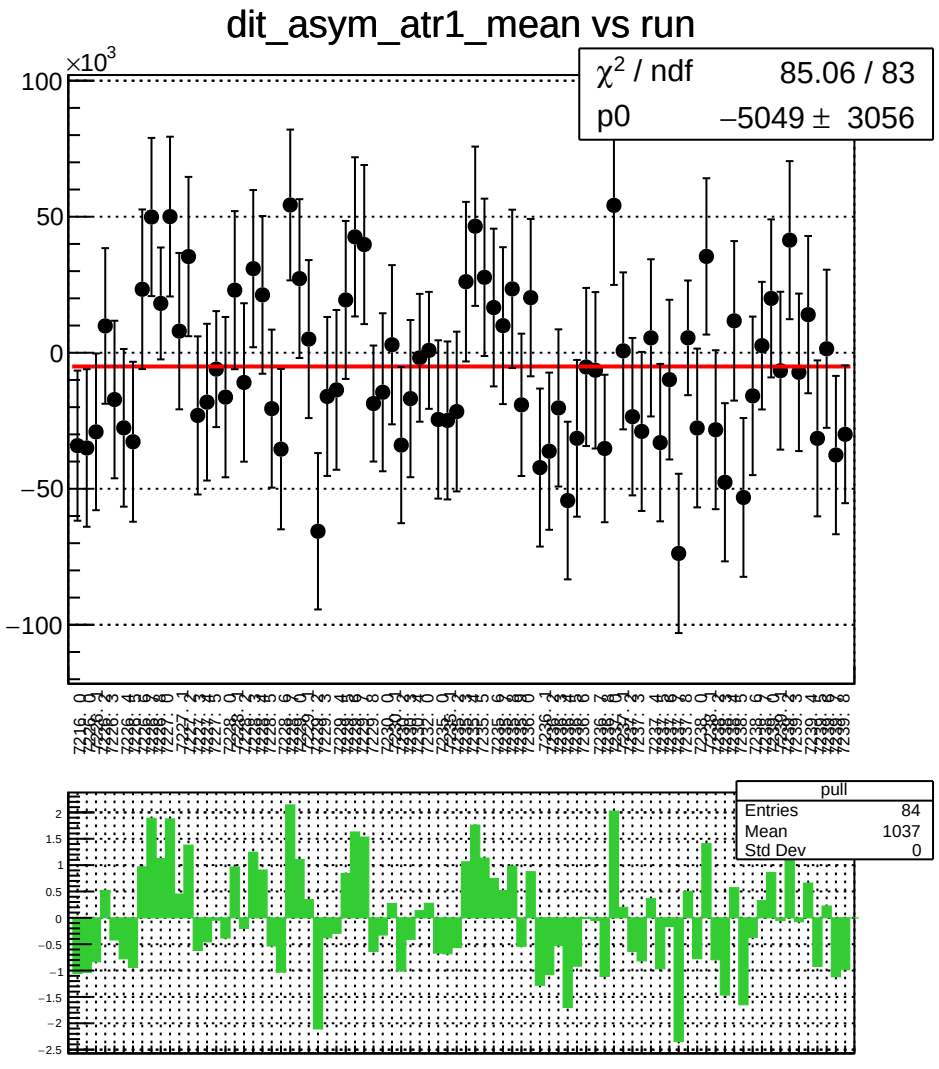

pull1D
Entries 84
Mean −0.004245
Std Dev 1.009
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

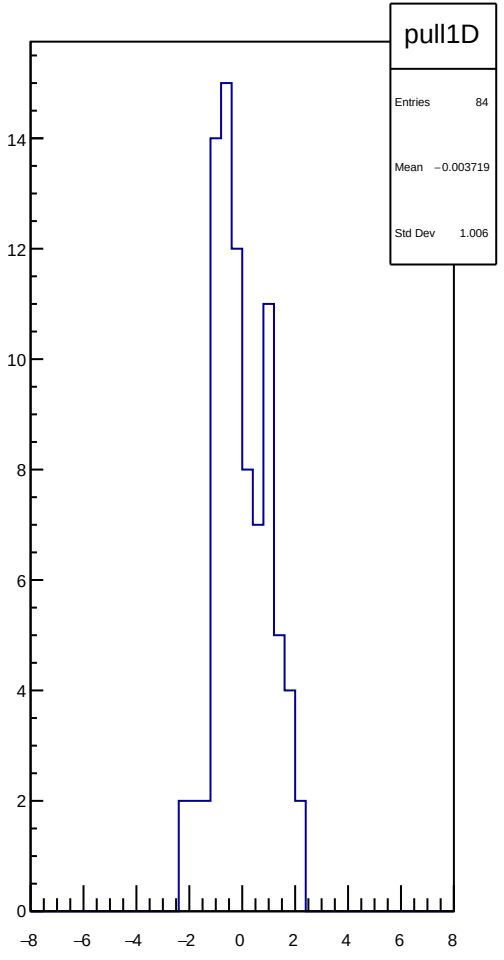

eigen_cor_asym_atr1_rms vs run
χ² / ndf 72.53 / 83
p0 2755 ± 2.16
2820
2800
2780
2760
2740
2720
2700
2680

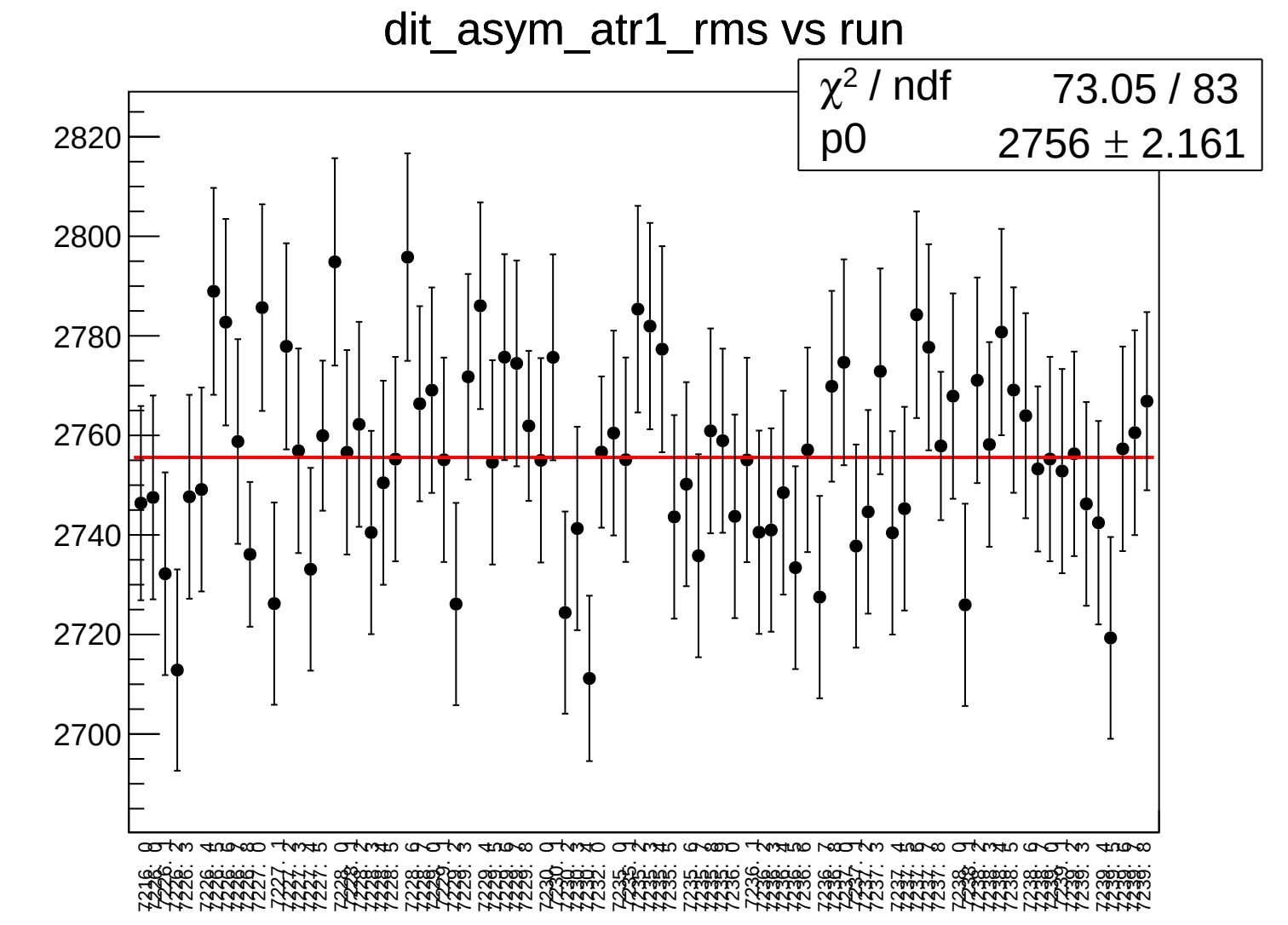

asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 96.28 / 83
p0 −608.1± 772.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −40.15
Std Dev 19.68
2
1
0
−1
−2

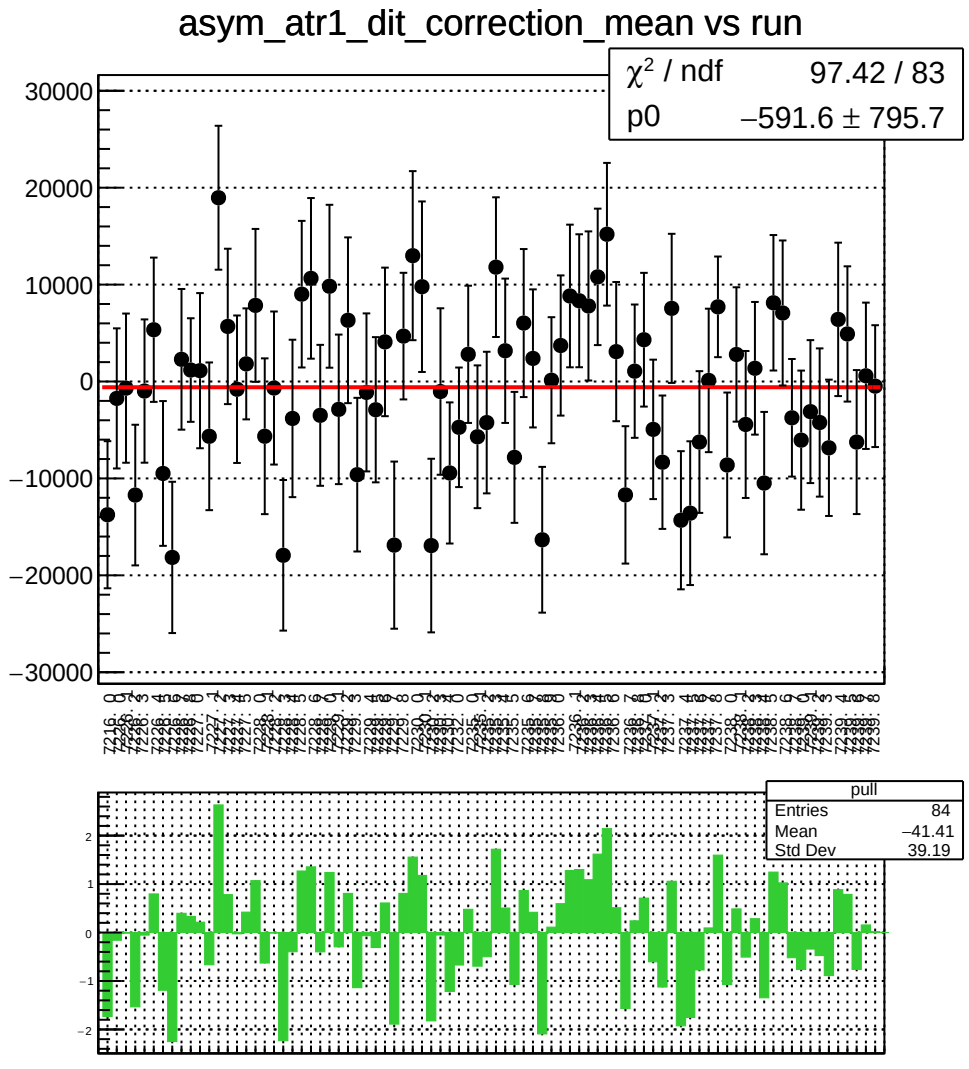

pull1D
Entries 84
Mean −0.01122
Std Dev 1.071
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

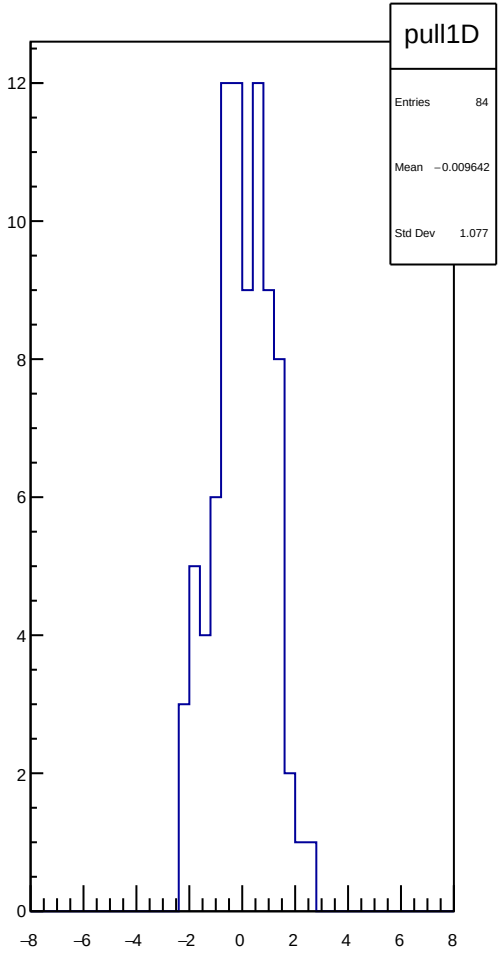

asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 1.387e+04 / 83
p0 694 ± 0.5465
900
850
800
750
700
650
600
550

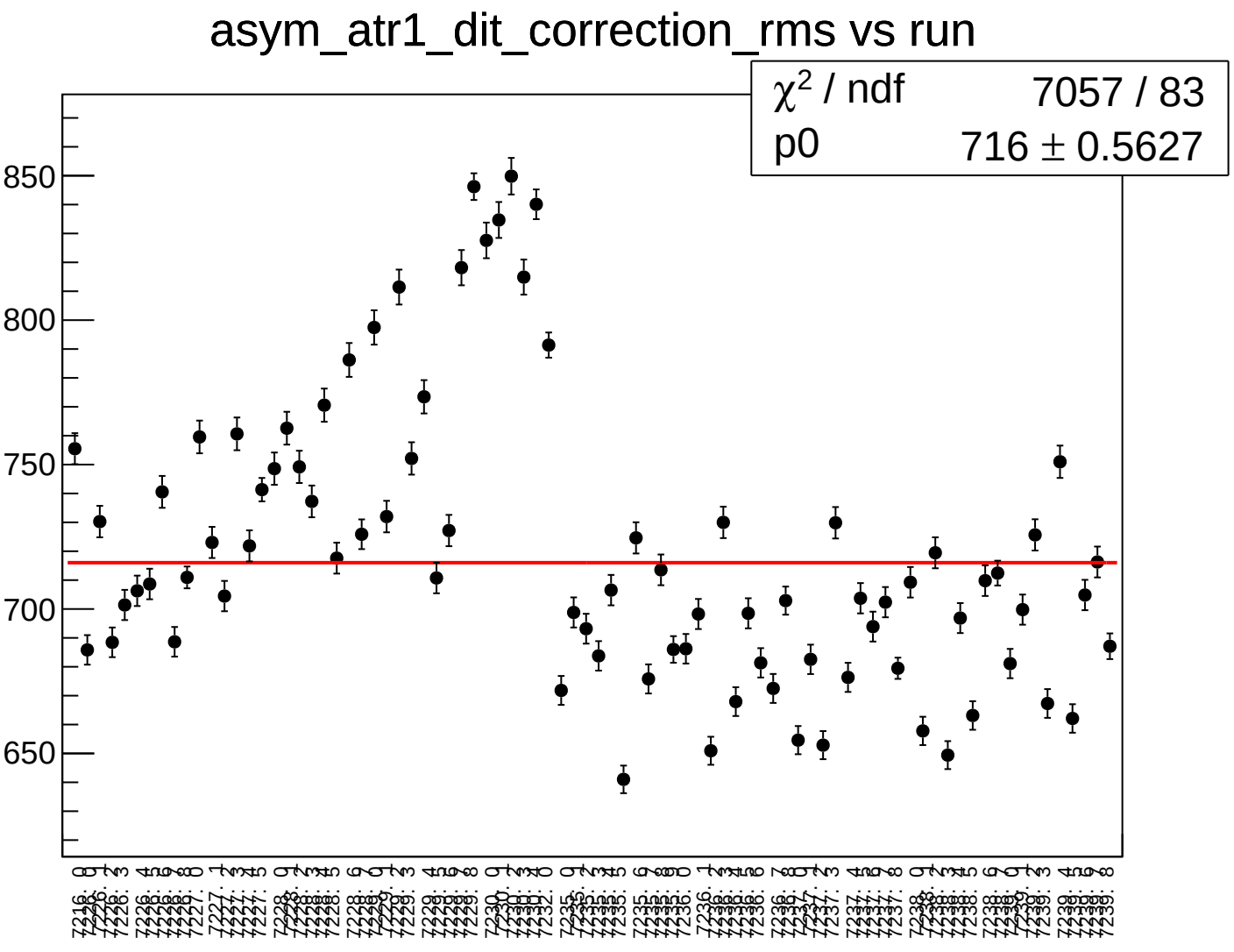

dit_asym_atr1_mean vs run
×10^3
χ² / ndf 85.06 / 83
p0 −5049 ± 3056
pull
Entries 84
Mean 1037
Std Dev 0

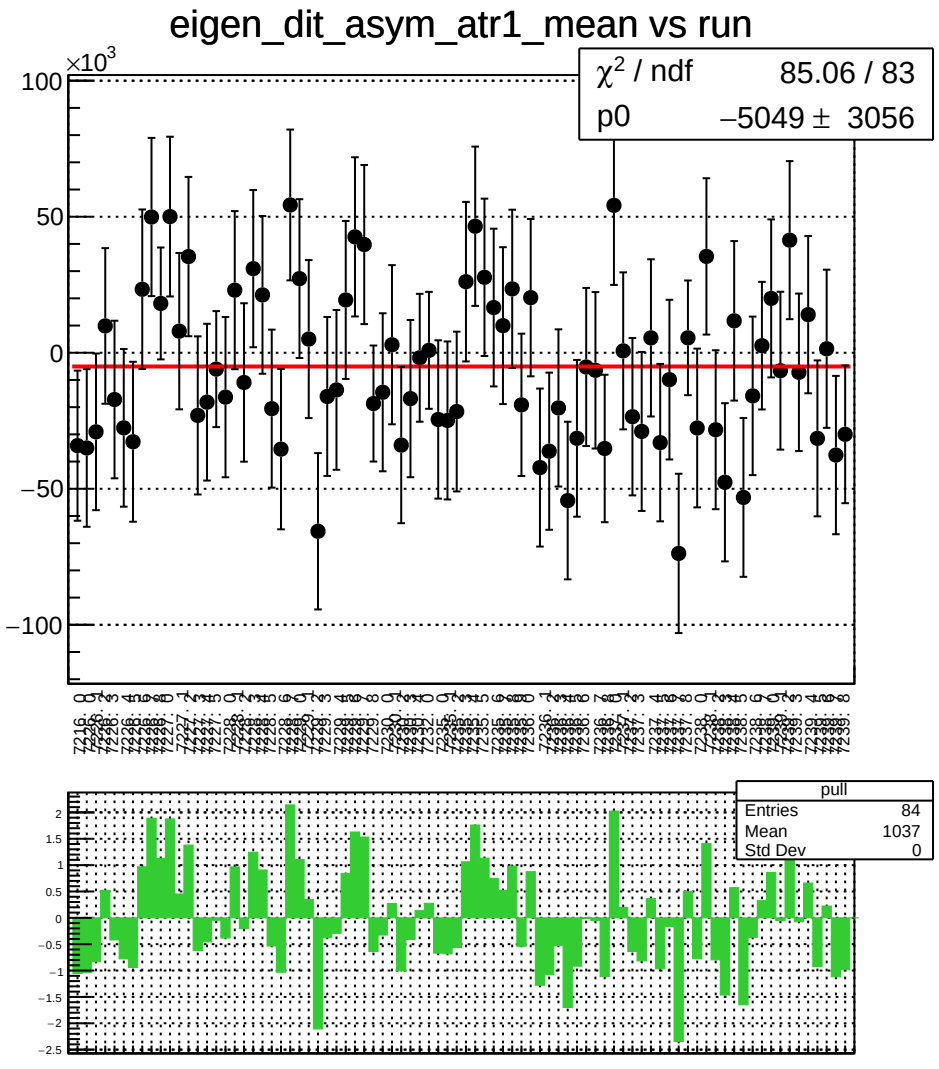

pull1D
Entries 84
Mean −0.003719
Std Dev 1.006

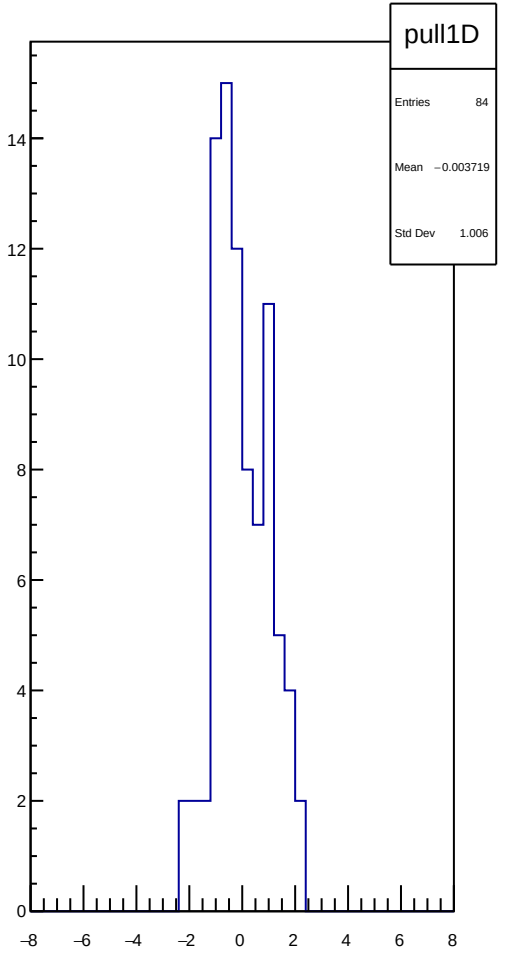

dit_asym_atr1_rms vs run
χ² / ndf 73.05 / 83
p0 2756 ± 2.161
2820
2800
2780
2760
2740
2720
2700

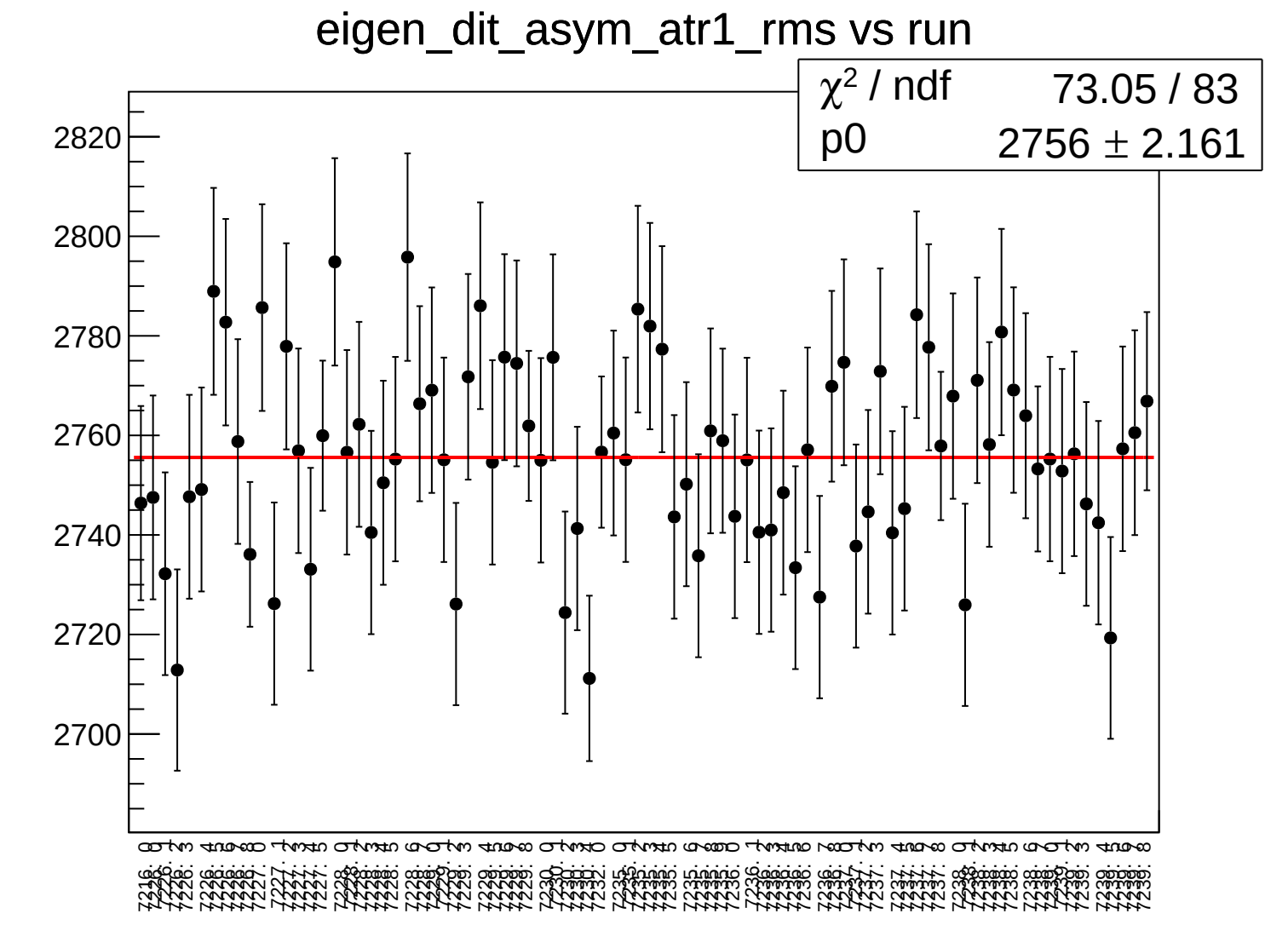

asym_atr1_dit_correction_mean vs run
χ² / ndf 97.42 / 83
p0 −591.6 ± 795.7
pull
Entries 84
Mean −41.41
Std Dev 39.19

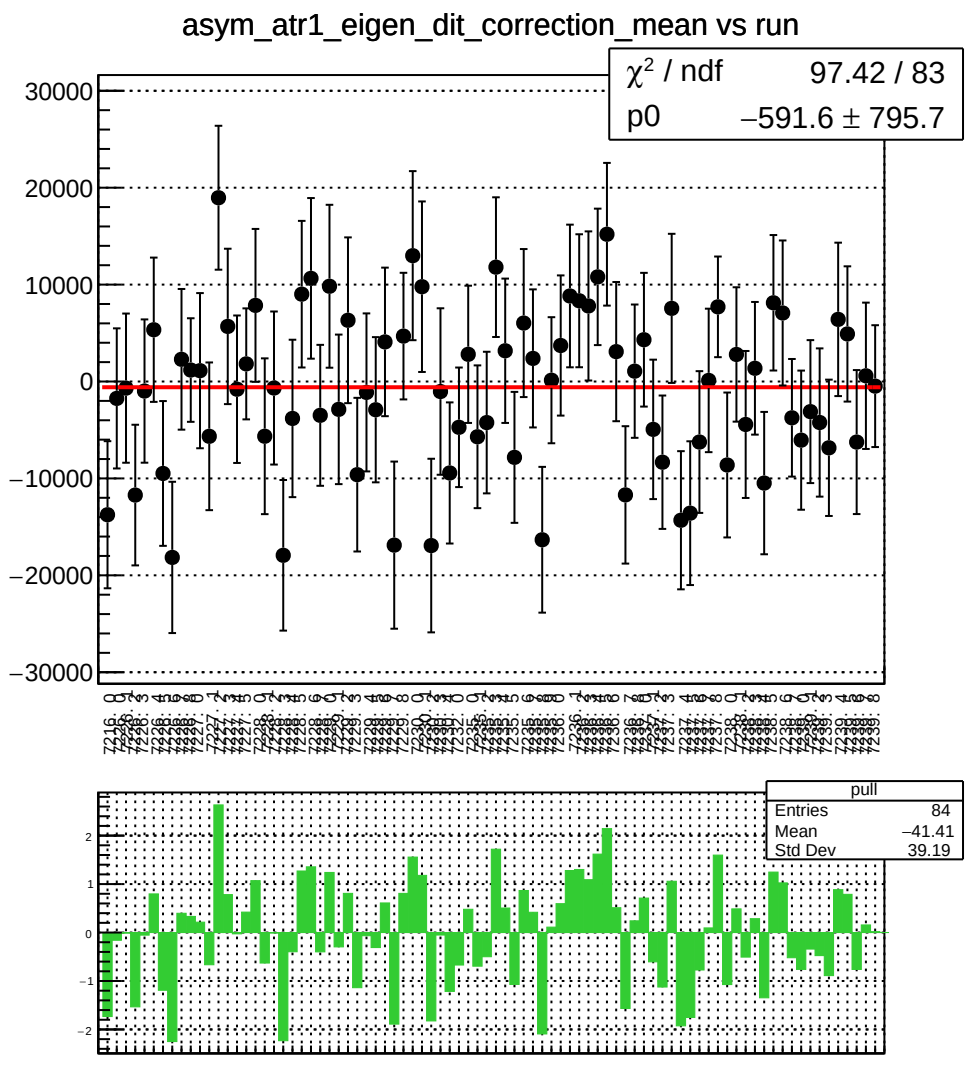

pull1D
Entries 84
Mean −0.009642
Std Dev 1.077

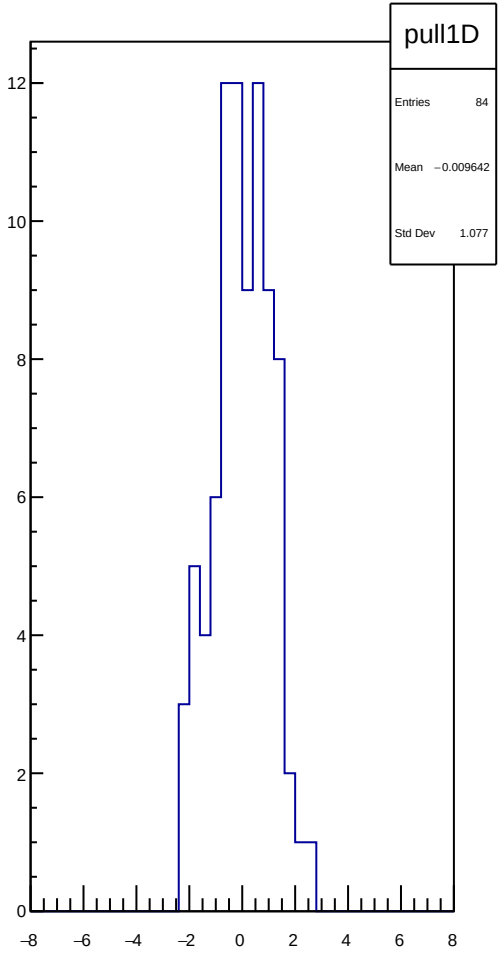

asym_atr1_dit_correction_rms vs run
χ² / ndf 7057 / 83
p0 716 ± 0.5627
850
800
750
700
650

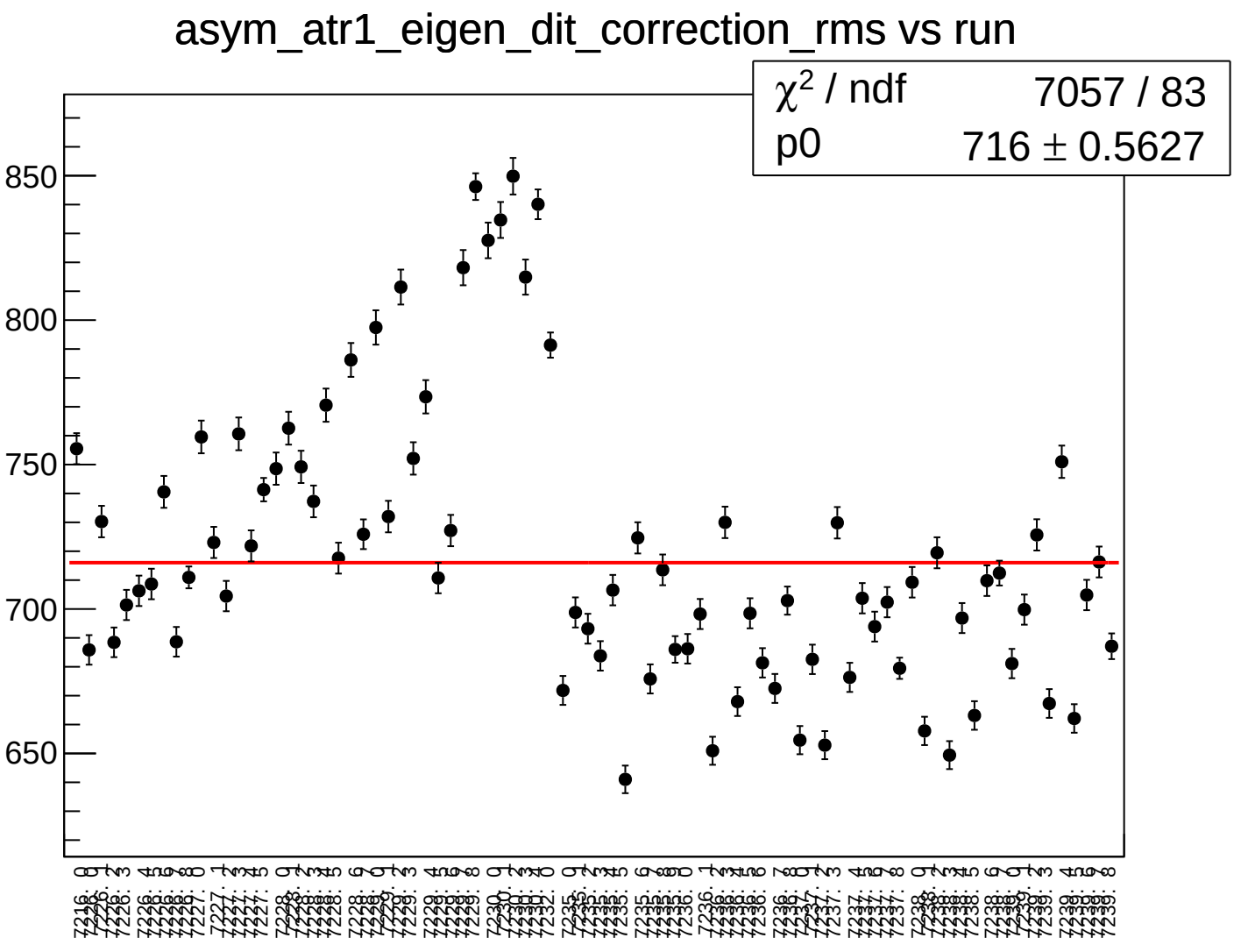

eigen_dit_asym_atr1_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 85.06 / 83
p0 −5049 ± 3056
pull
Entries 84
Mean 1037
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

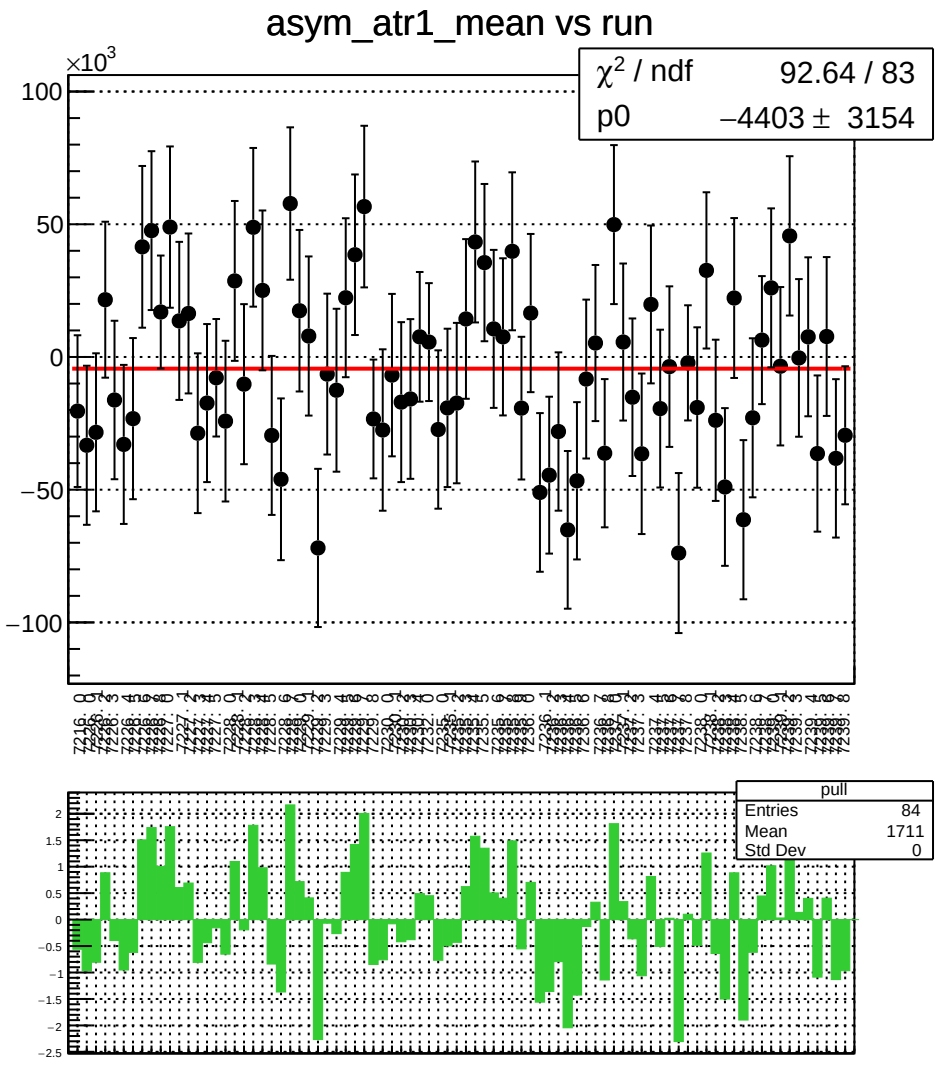

pull1D
Entries 84
Mean −0.003719
Std Dev 1.006
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

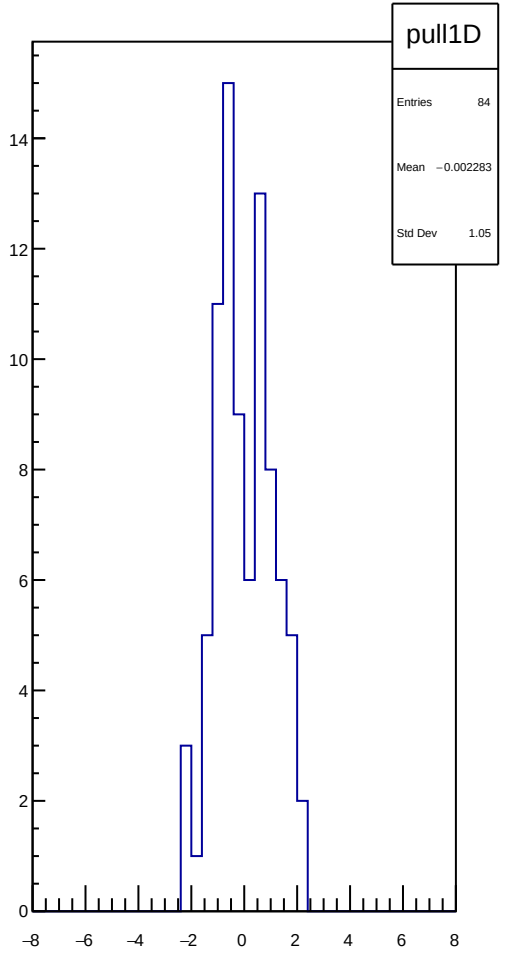

eigen_dit_asym_atr1_rms vs run
χ^2 / ndf 73.05 / 83
p0 2756 ± 2.161
2820
2800
2780
2760
2740
2720
2700

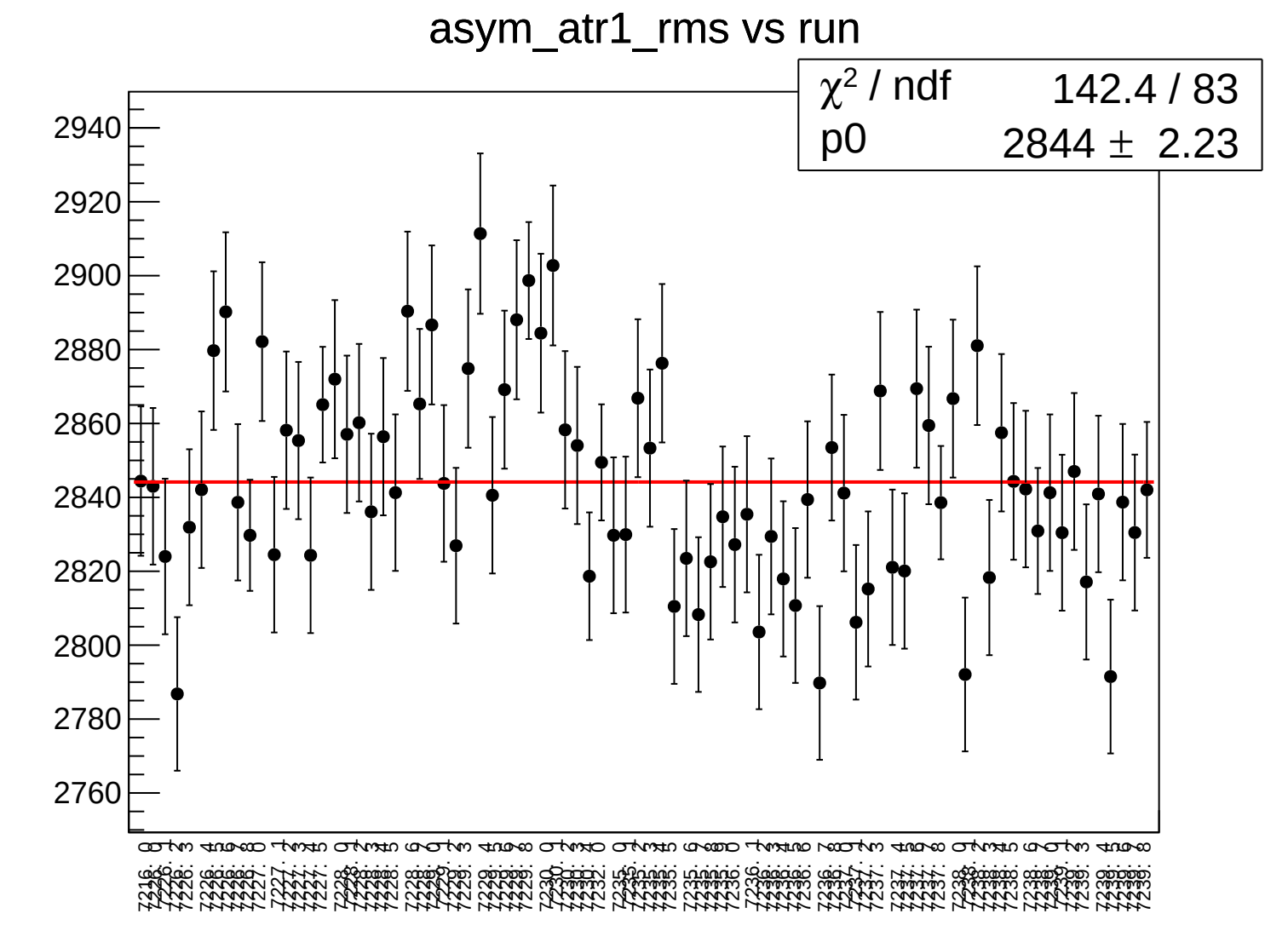

asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 97.42 / 83
p0 −591.6 ± 795.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −41.41
Std Dev 39.19
2
1
0
−1
−2

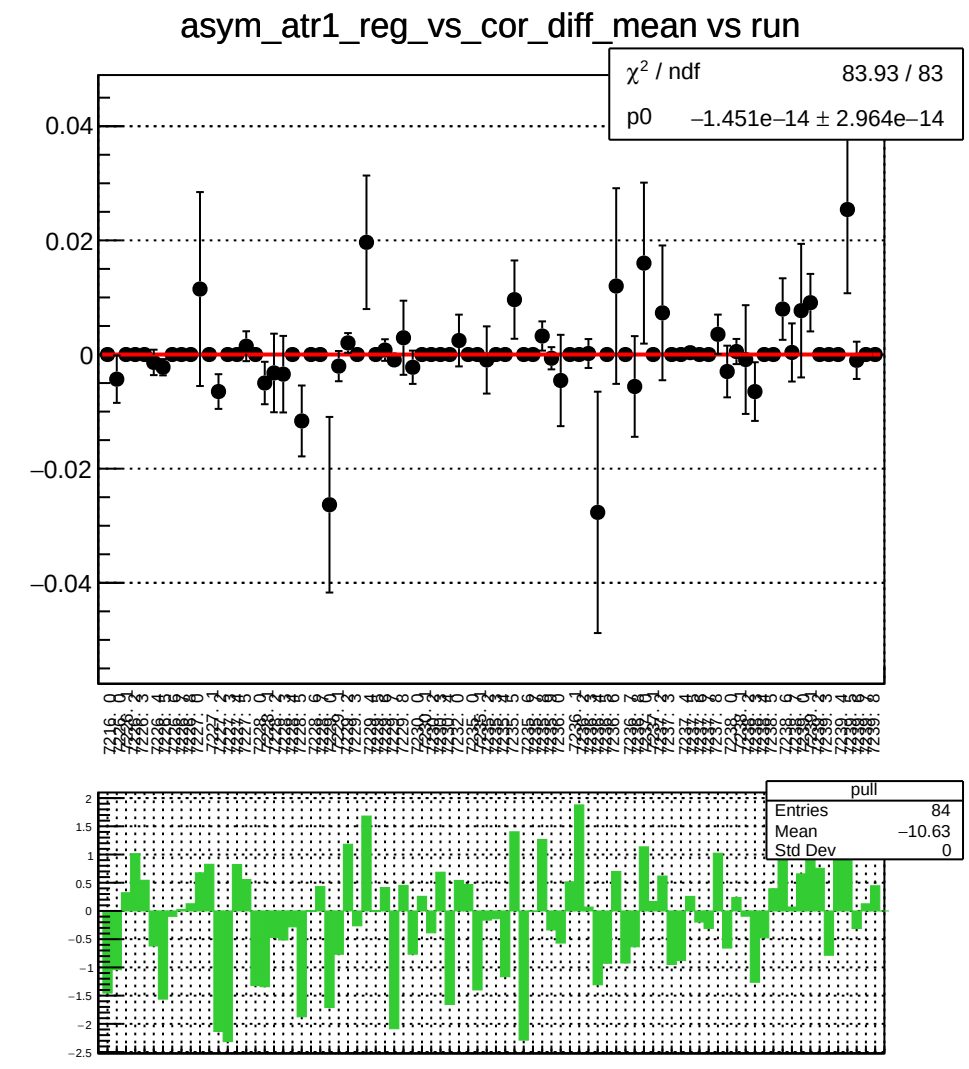

pull1D
Entries 84
Mean −0.009642
Std Dev 1.077
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

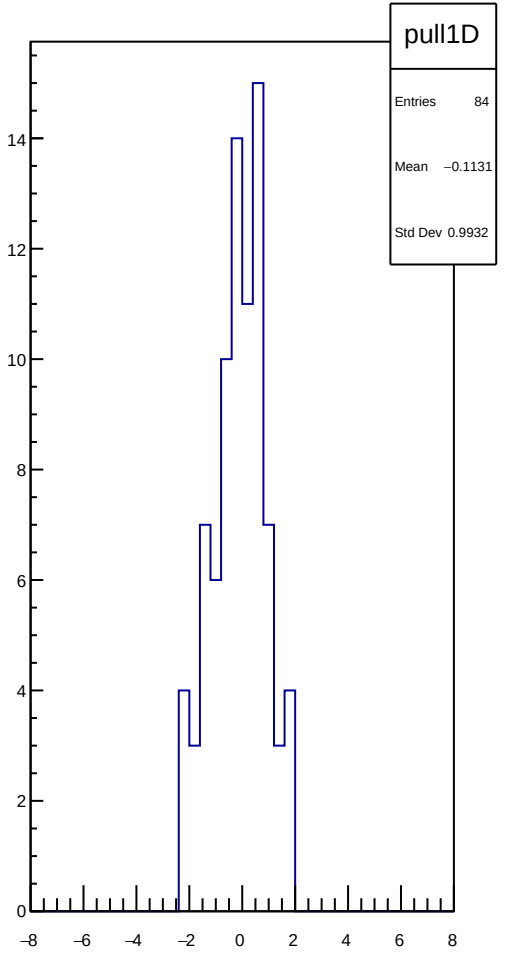

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 7057 / 83
p0 716 ± 0.5627
850
800
750
700
650

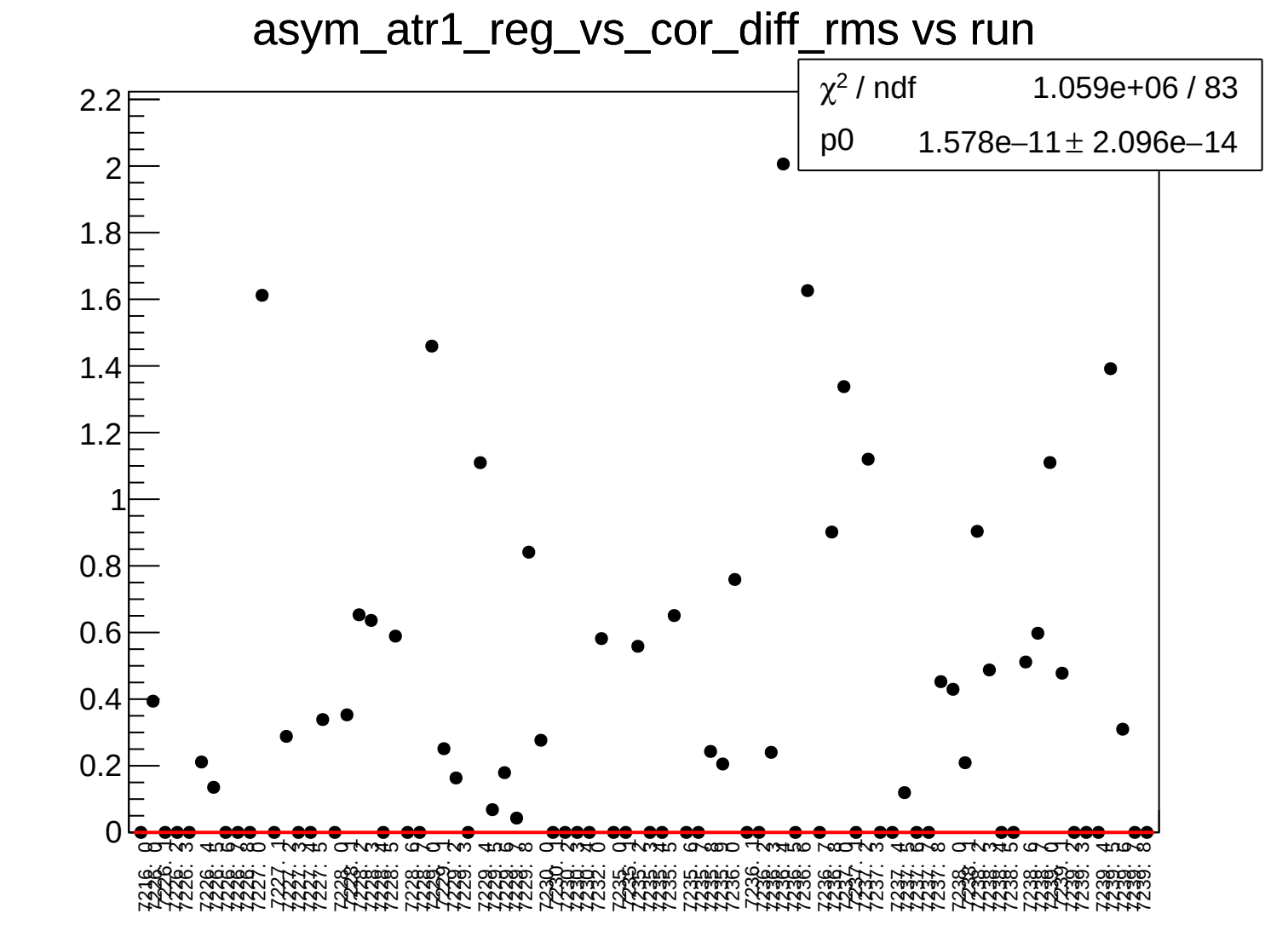

asym_atr1_mean vs run
×10^3
χ² / ndf 92.64 / 83
p0 −4403 ± 3154
pull
Entries 84
Mean 1711
Std Dev 0

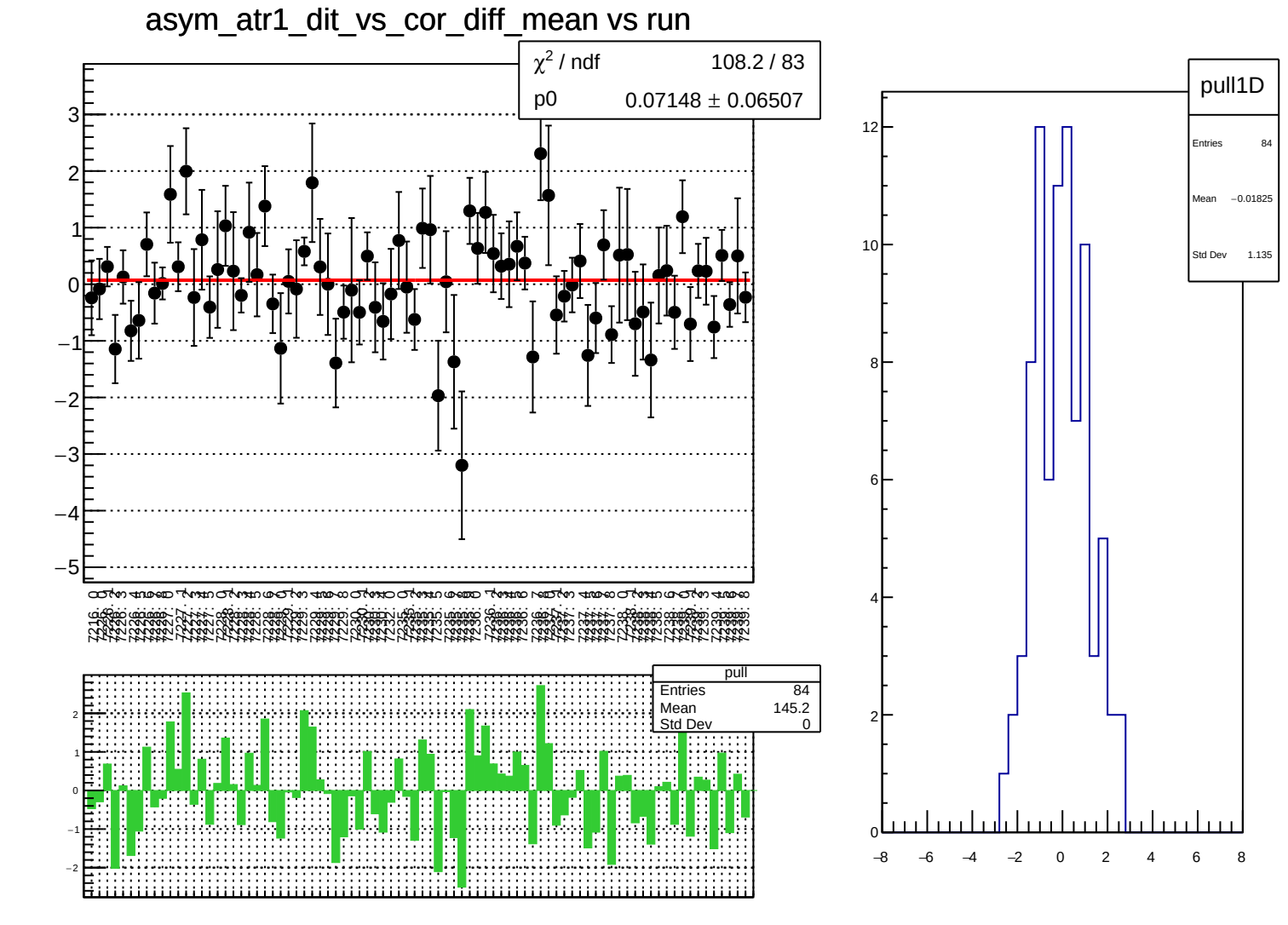

pull1D
Entries 84
Mean −0.002283
Std Dev 1.05

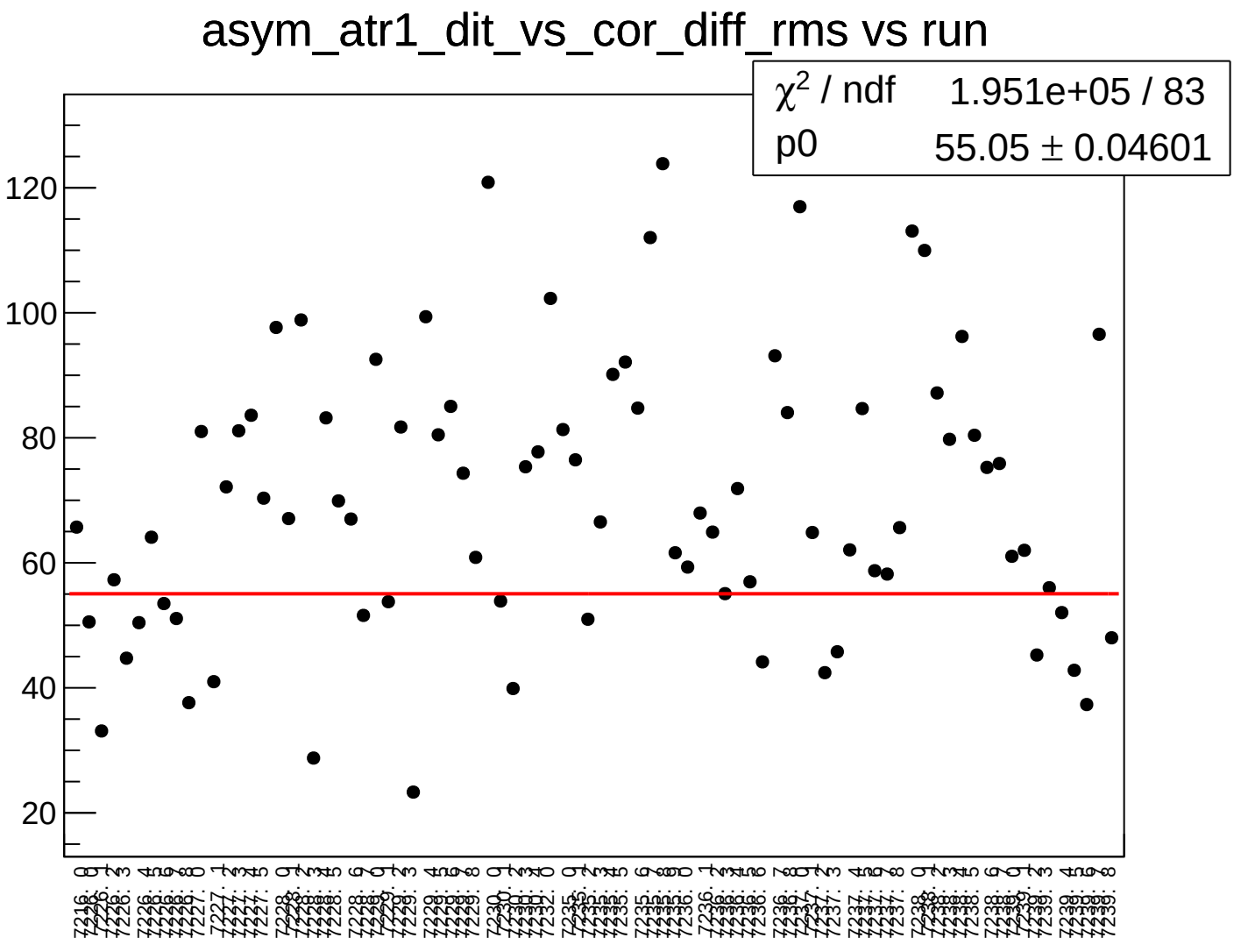

asym_atr1_rms vs run
χ² / ndf 142.4 / 83
p0 2844 ± 2.23
2940
2920
2900
2880
2860
2840
2820
2800
2780
2760

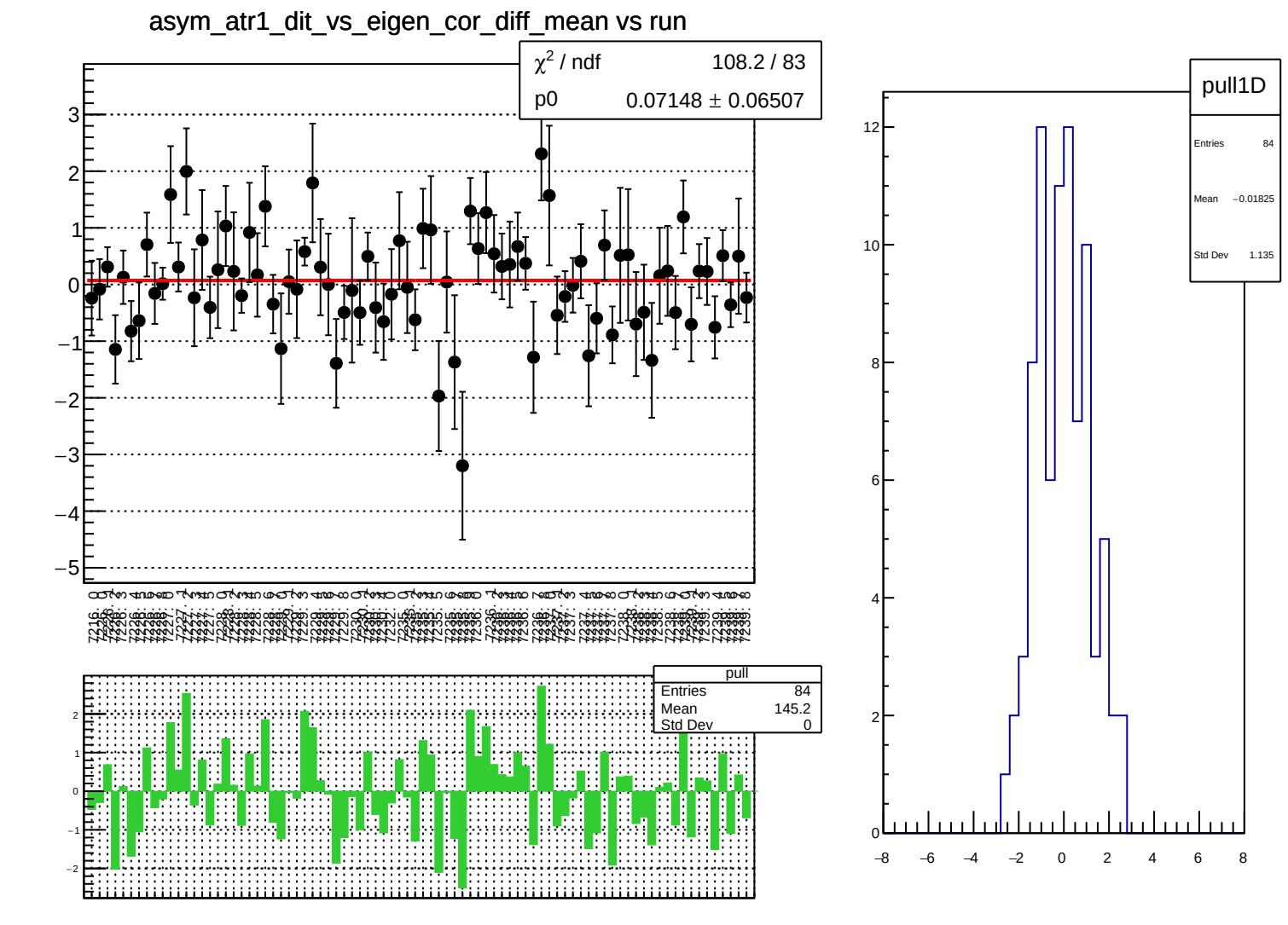

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 83.93 / 83
p0 −1.451e−14 ± 2.964e−14
0.04
0.02
0
−0.02
−0.04
pull
Entries 84
Mean −10.63
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

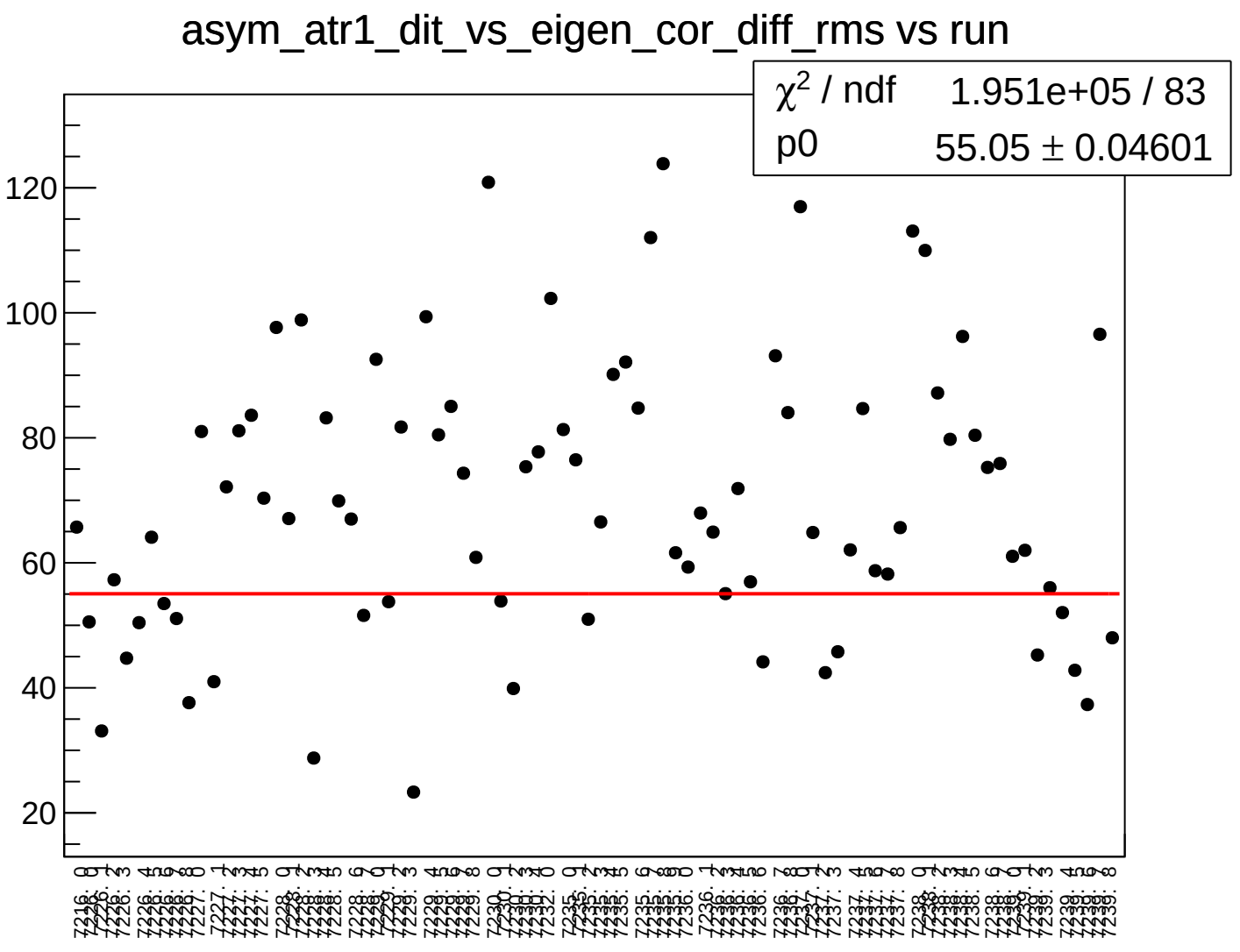

pull1D
Entries 84
Mean −0.1131
Std Dev 0.9932
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

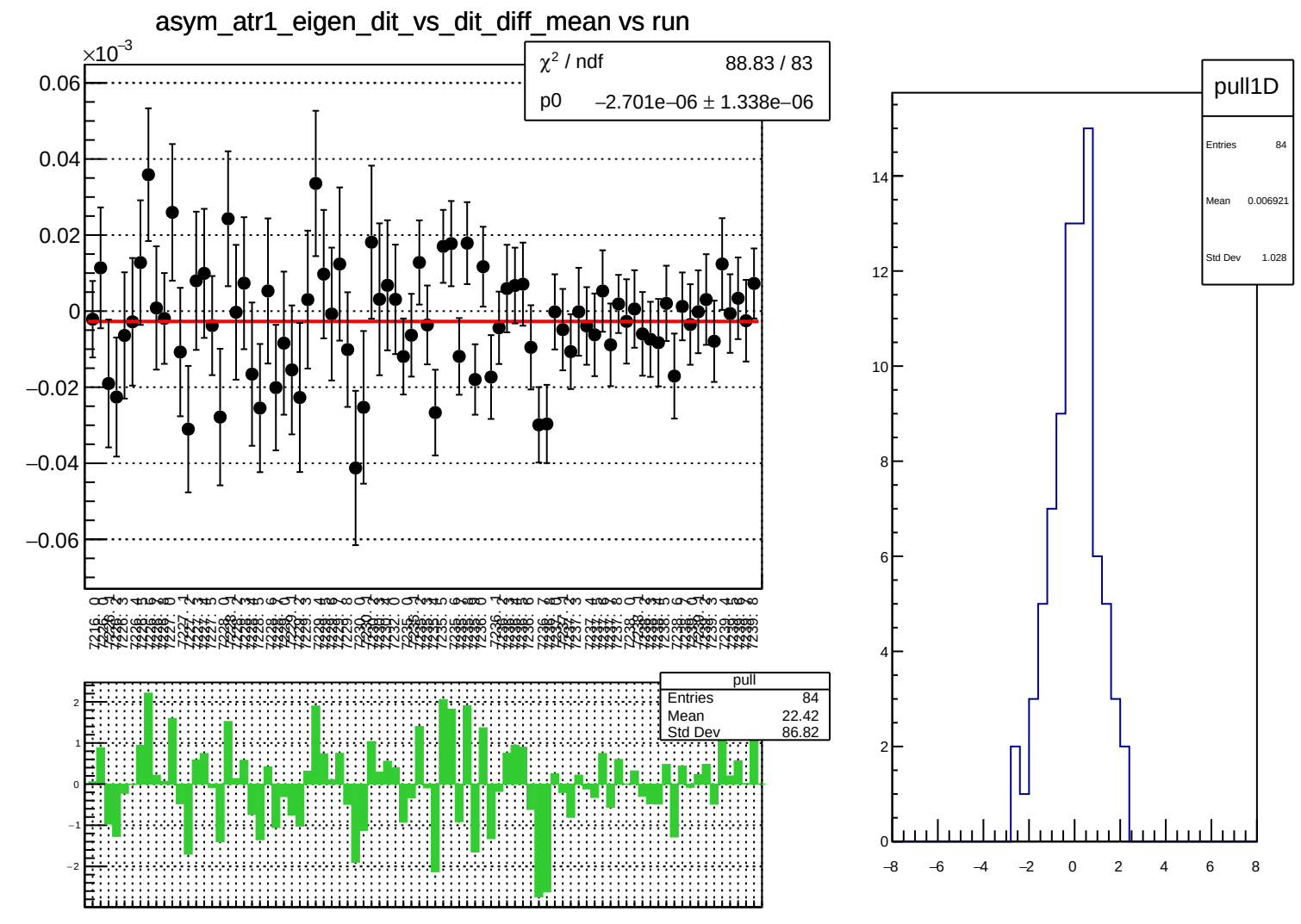

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.059e+06 / 83
p0 1.578e−11 ± 2.096e−14
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

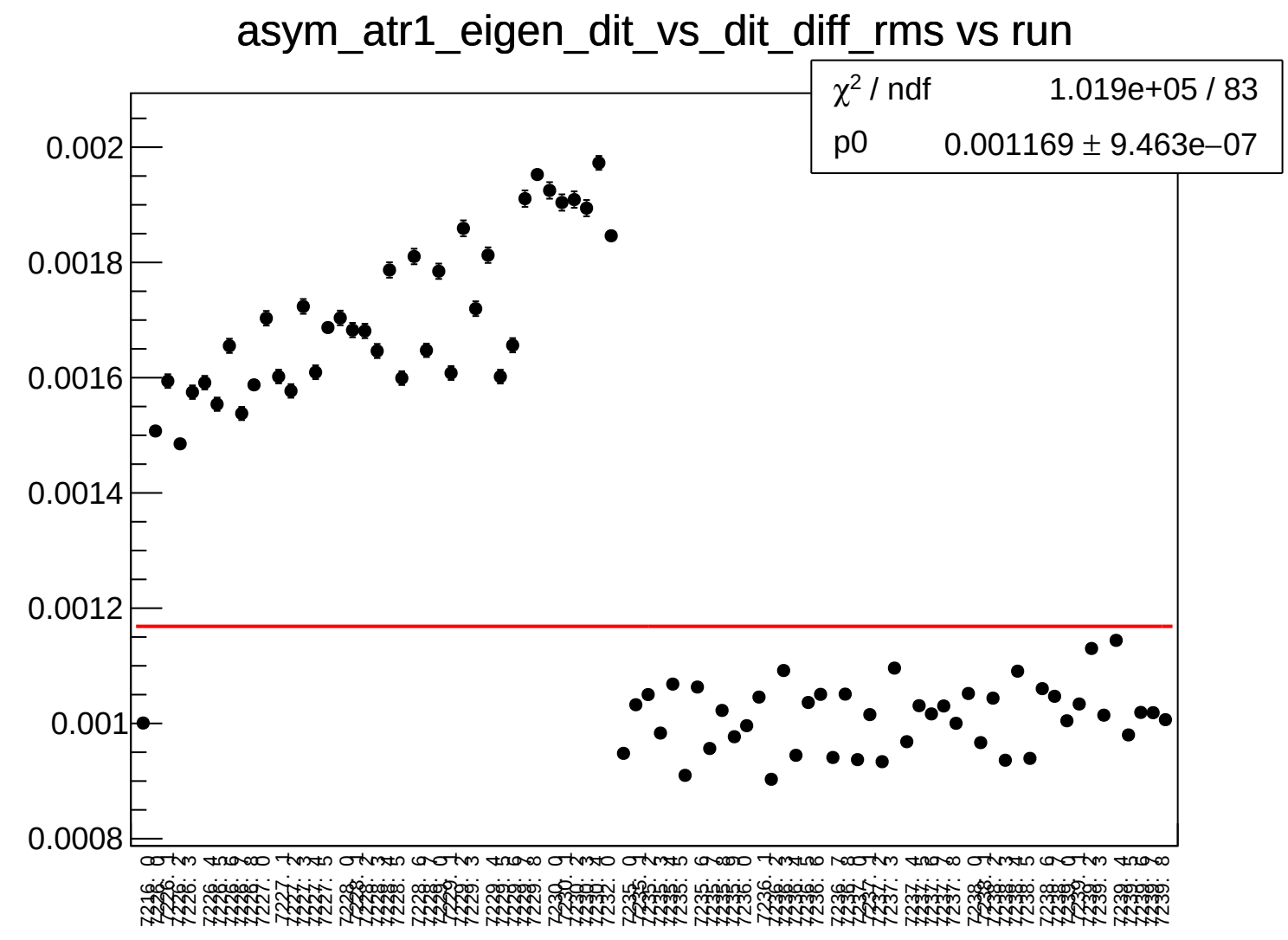

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 108.2 / 83
p0 0.07148 ± 0.06507
pull
Entries 84
Mean 145.2
Std Dev 0
pull1D
Entries 84
Mean −0.01825
Std Dev 1.135

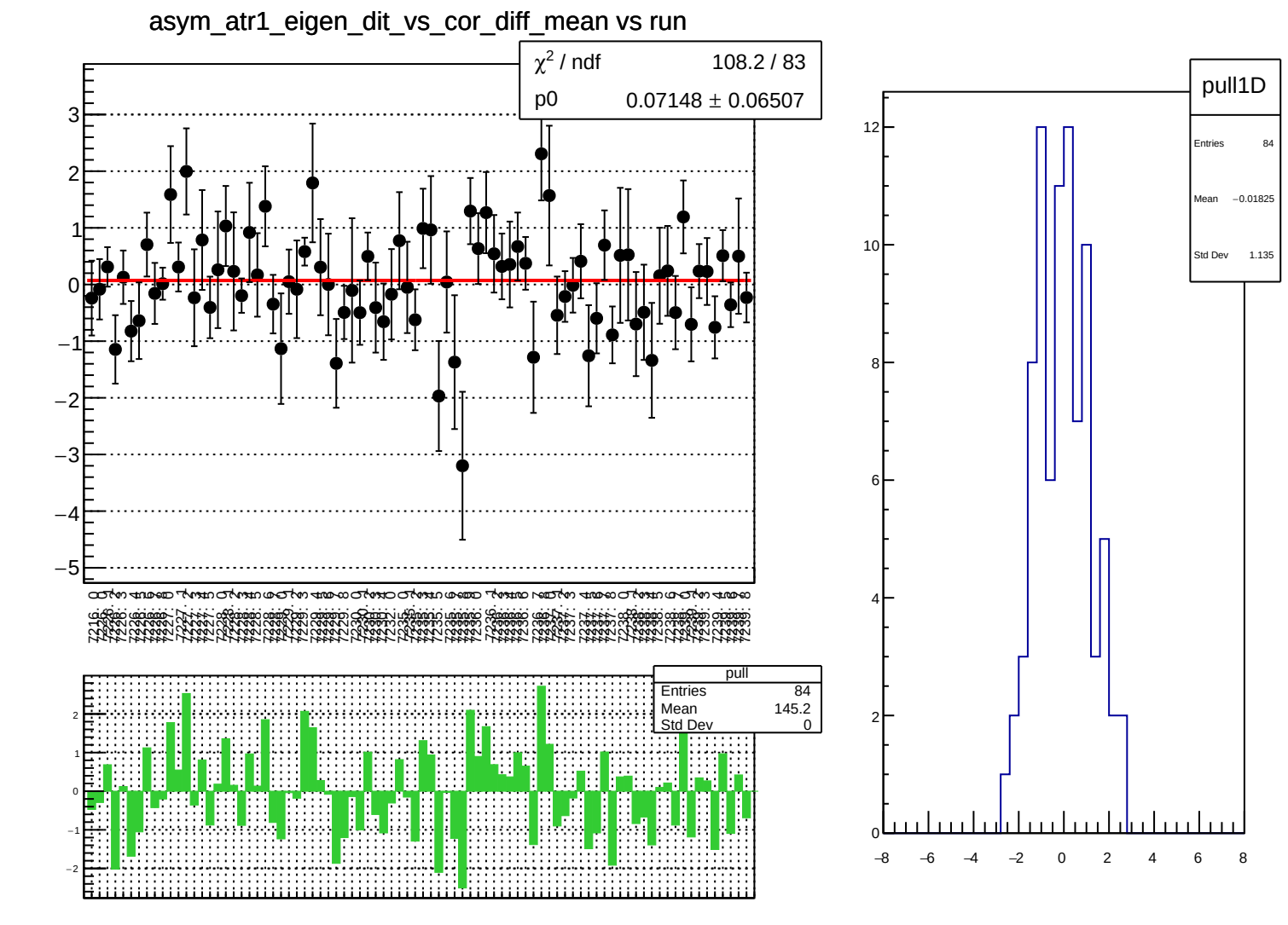

asym_atr1_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.951e+05 / 83
p0 55.05 ± 0.04601
120
100
80
60
40
20

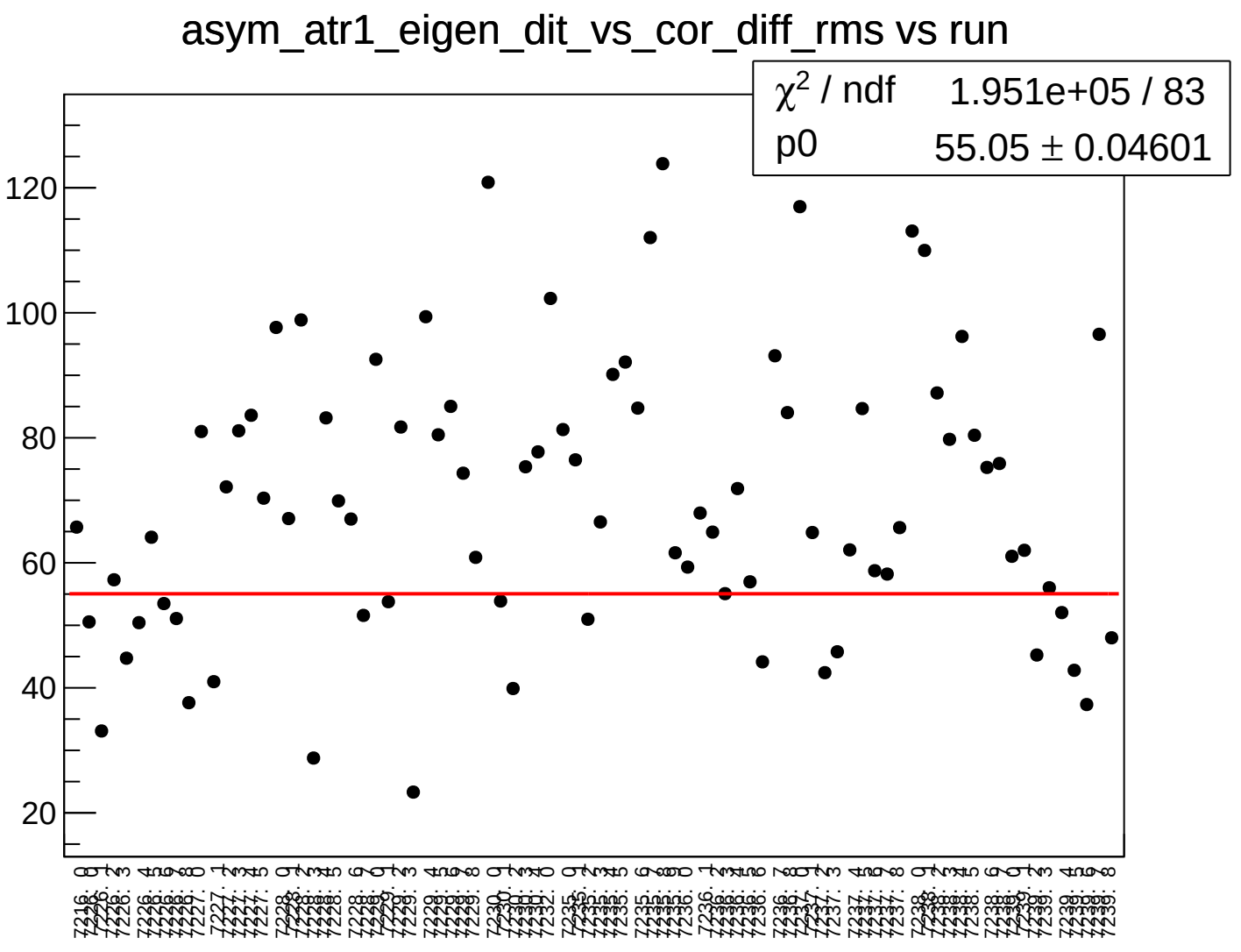

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.2 / 83
p0 0.07148 ± 0.06507
pull
Entries 84
Mean 145.2
Std Dev 0
pull1D
Entries 84
Mean −0.01825
Std Dev 1.135

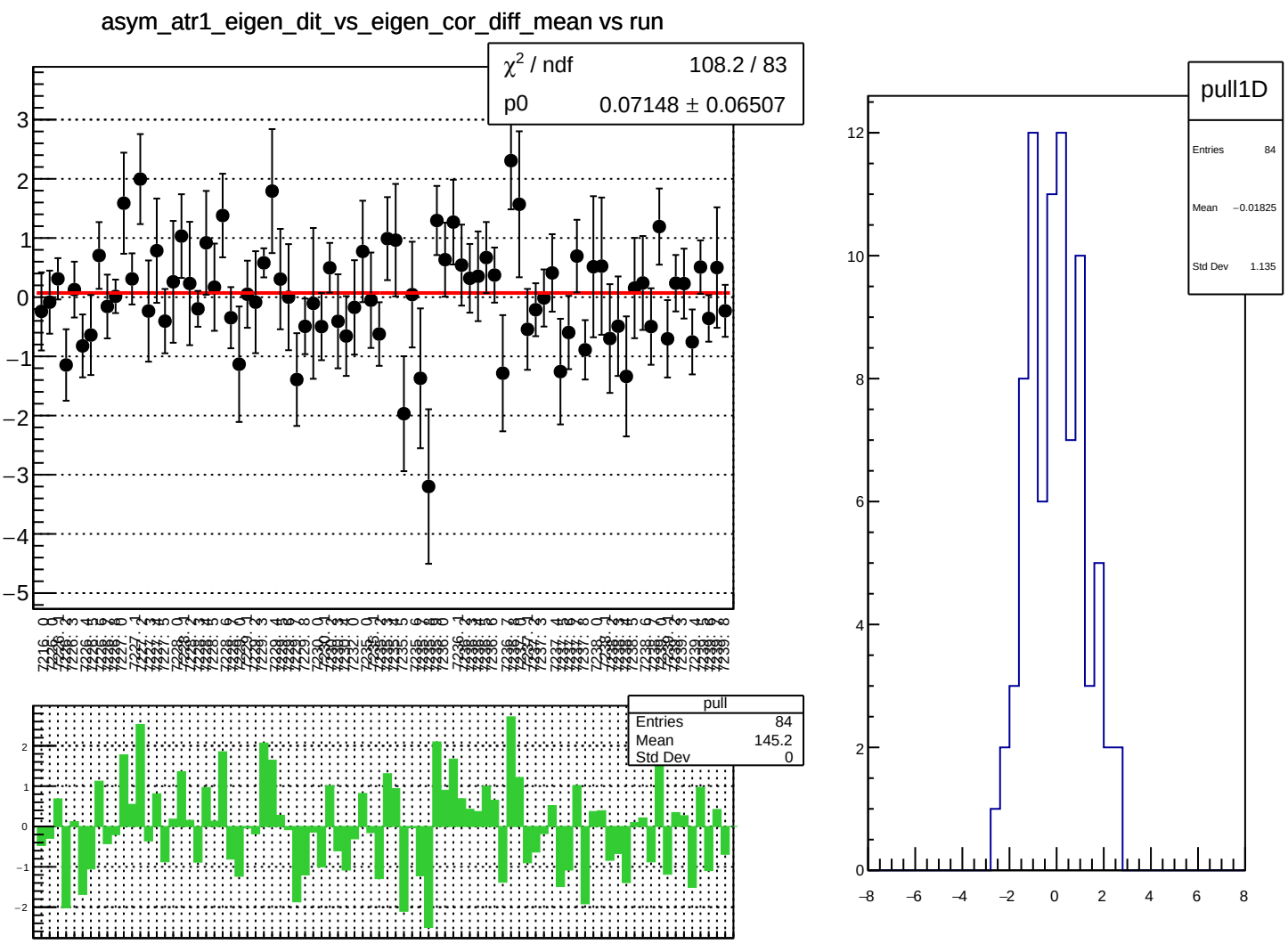

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.951e+05 / 83
p0 55.05 ± 0.04601
120
100
80
60
40
20

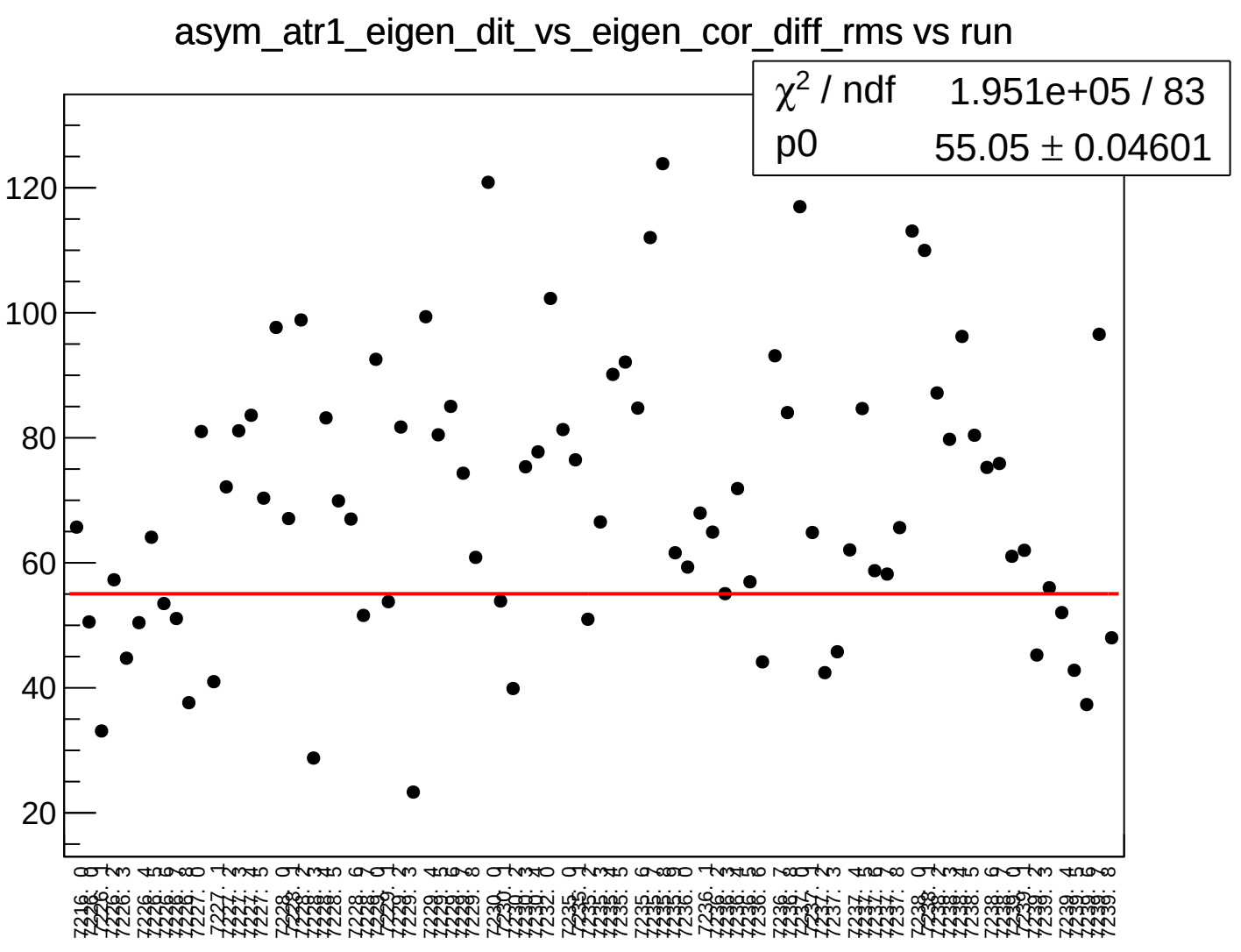

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.83 / 83
p0 −2.701e−06 ± 1.338e−06
pull
Entries 84
Mean 22.42
Std Dev 86.82
pull1D
Entries 84
Mean 0.006921
Std Dev 1.028

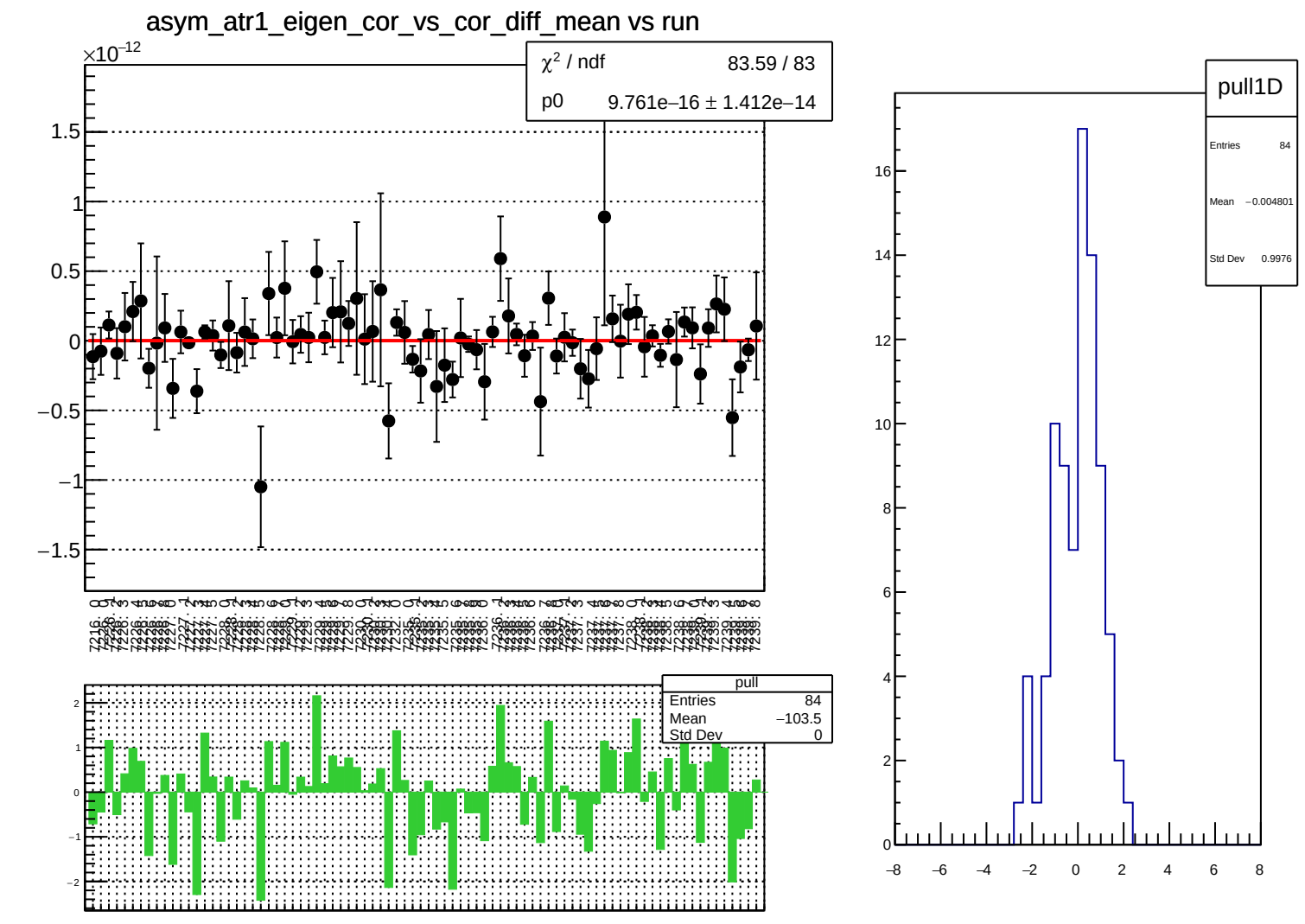

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.019e+05 / 83
p0 0.001169 ± 9.463e−07
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008

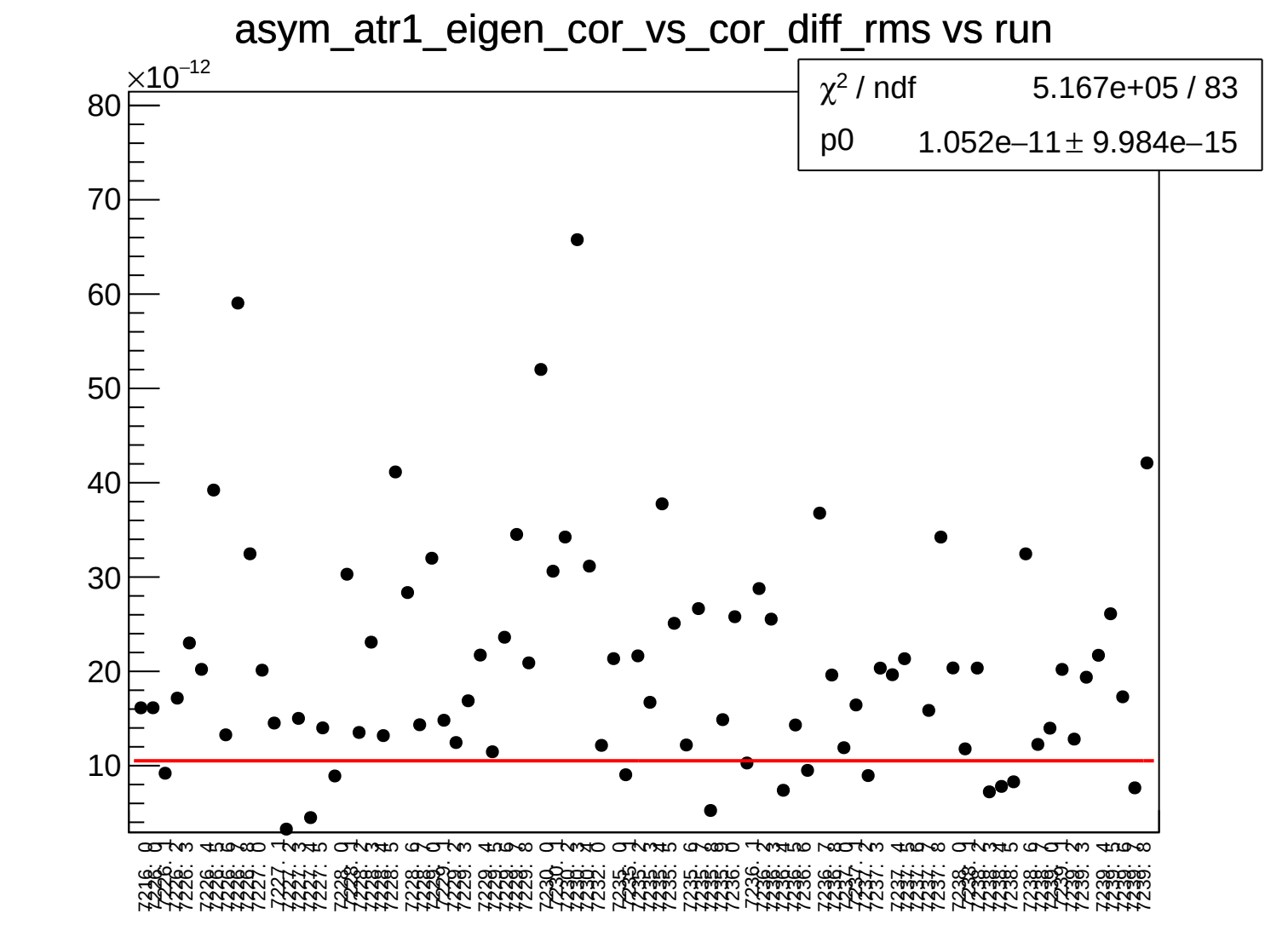

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 108.2 / 83
p0 0.07148 ± 0.06507
pull
Entries 84
Mean 145.2
Std Dev 0
pull1D
Entries 84
Mean −0.01825
Std Dev 1.135

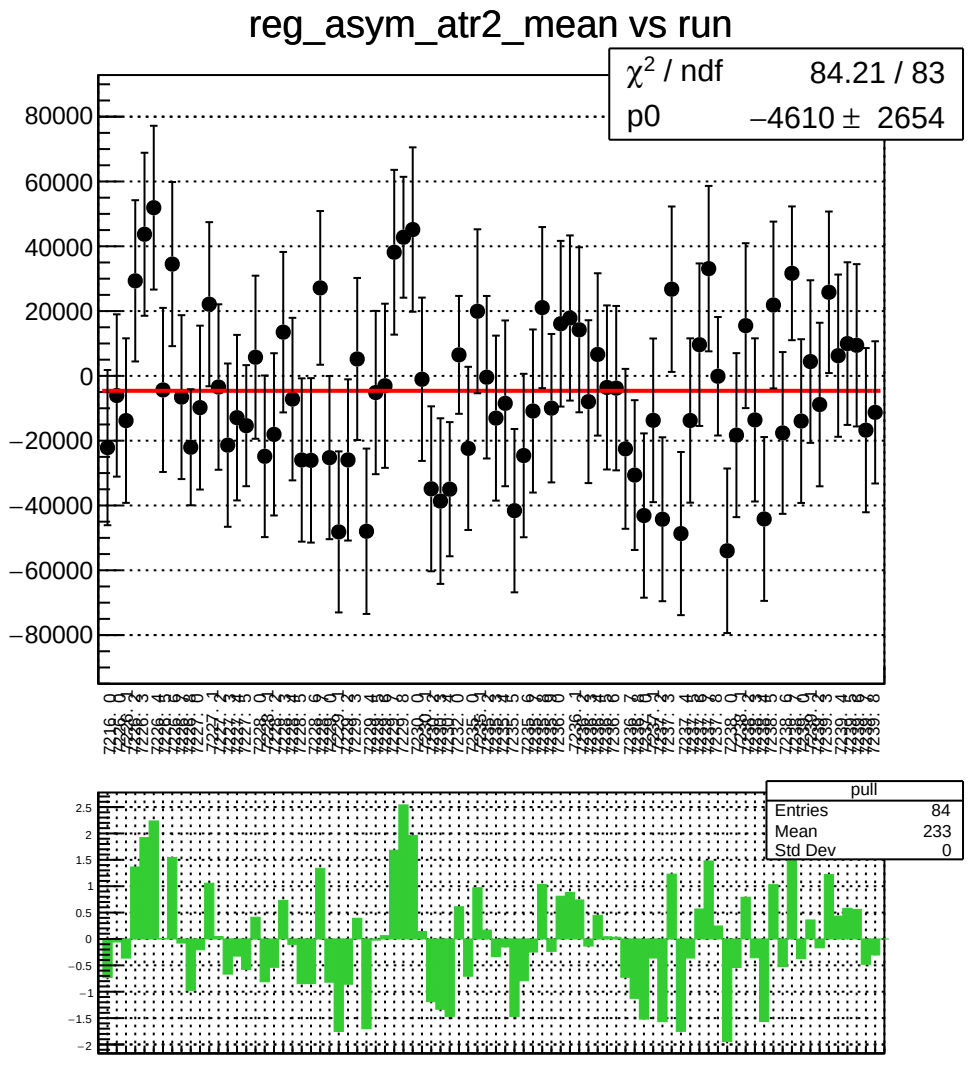

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.951e+05 / 83
p0 55.05 ± 0.04601
120
100
80
60
40
20

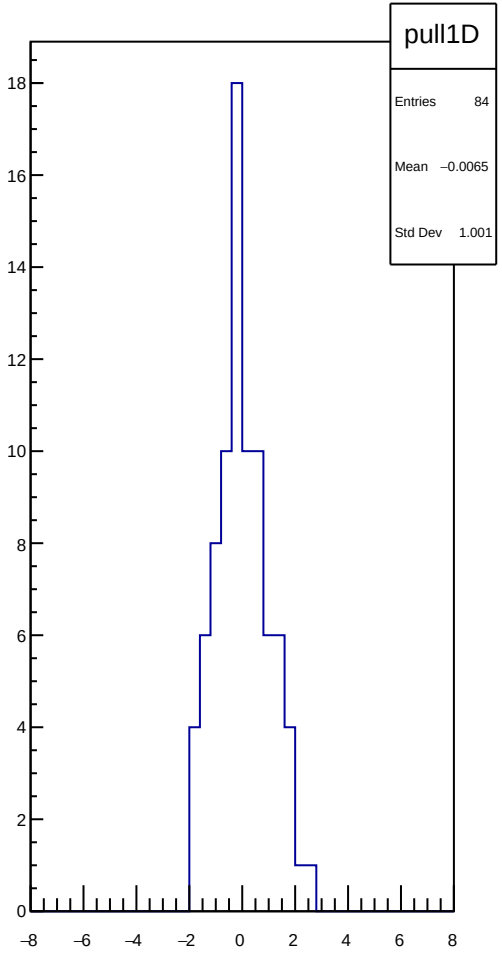

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.2 / 83
p0 0.07148 ± 0.06507
pull
Entries 84
Mean 145.2
Std Dev 0
pull1D
Entries 84
Mean −0.01825
Std Dev 1.135

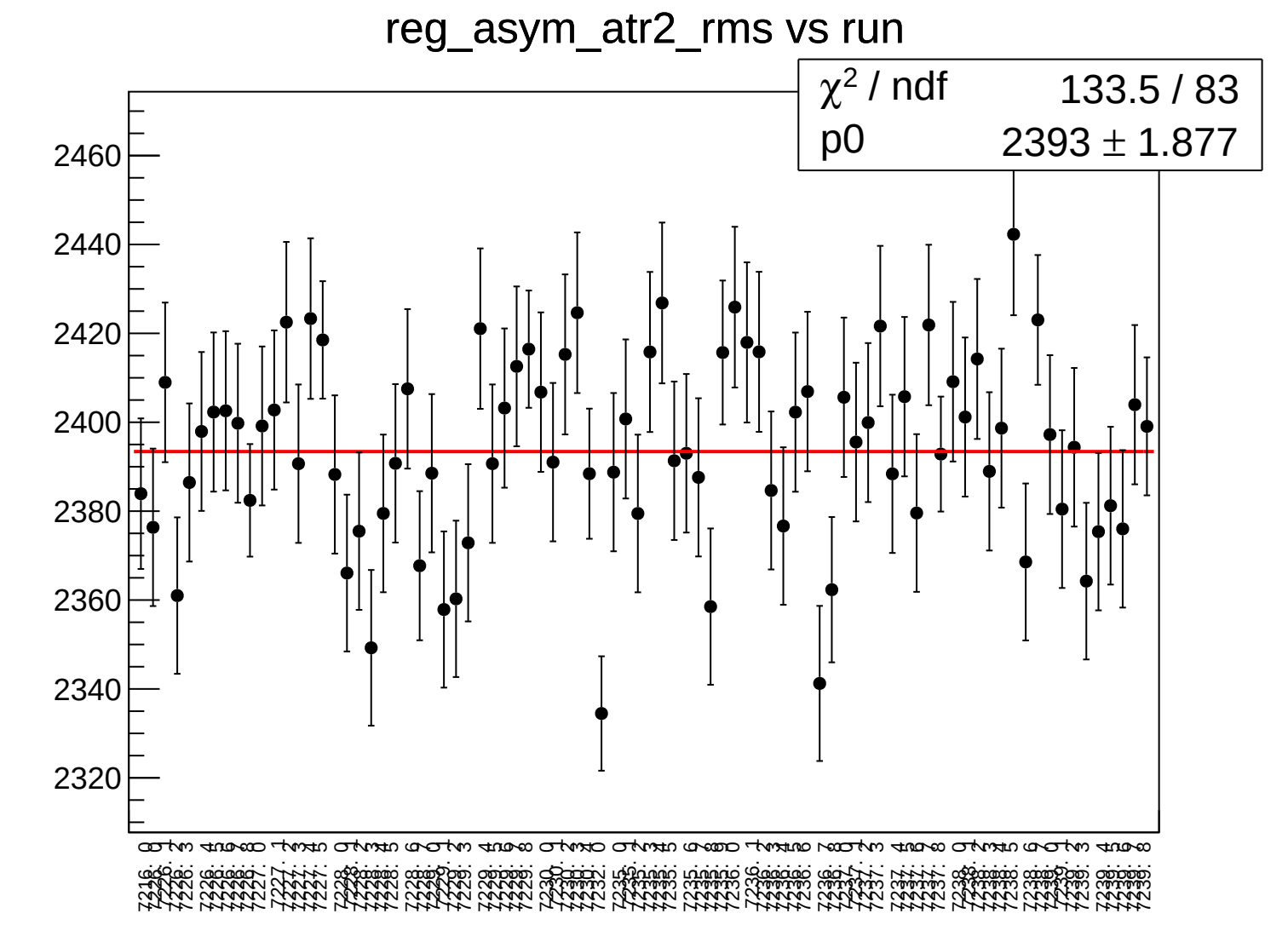

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.951e+05 / 83
p0 55.05 ± 0.04601
120
100
80
60
40
20

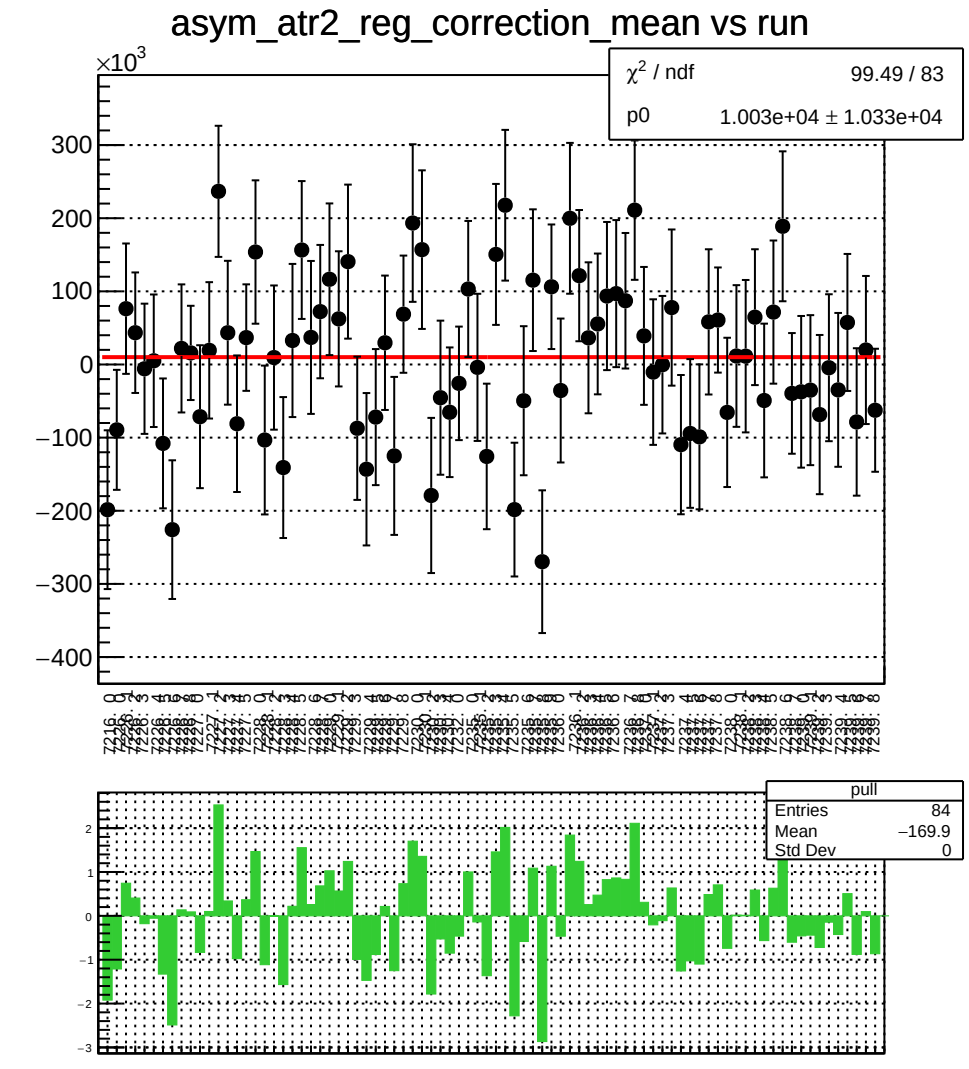

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.59 / 83
p0 9.761e−16 ± 1.412e−14
1.5
1
0.5
0
−0.5
−1
−1.5
pull
Entries 84
Mean −103.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.004801
Std Dev 0.9976
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

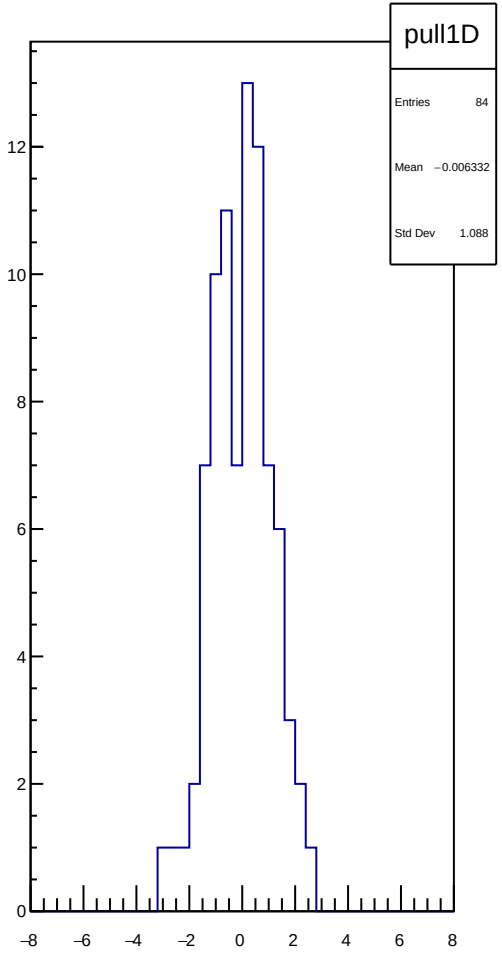

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
80
70
60
50
40
30
20
10
χ² / ndf 5.167e+05 / 83
p0 1.052e−11 ± 9.984e−15

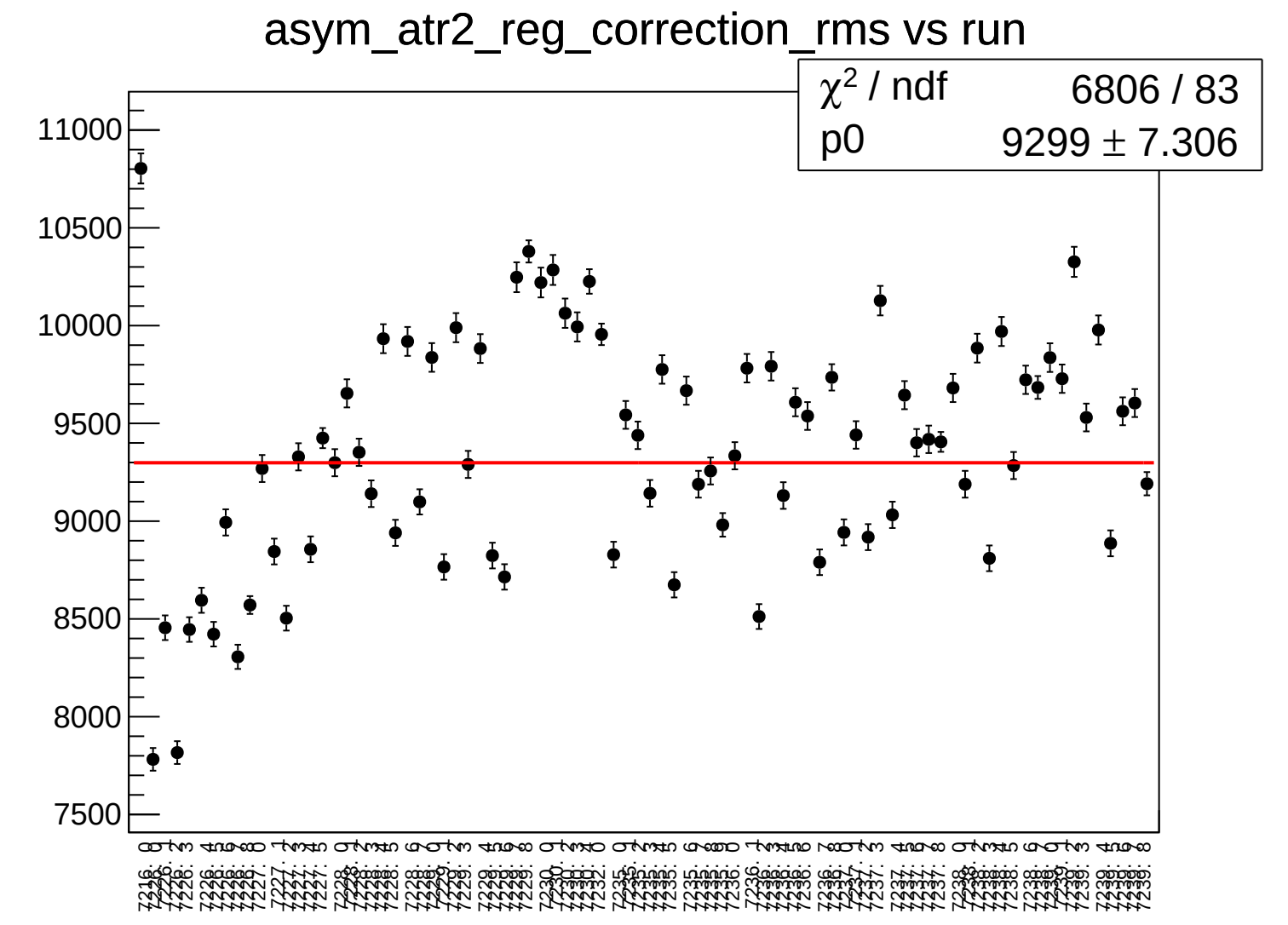

reg_asym_atr2_mean vs run
χ² / ndf 84.21 / 83
p0 −4610 ± 2654
pull
Entries 84
Mean 233
Std Dev 0

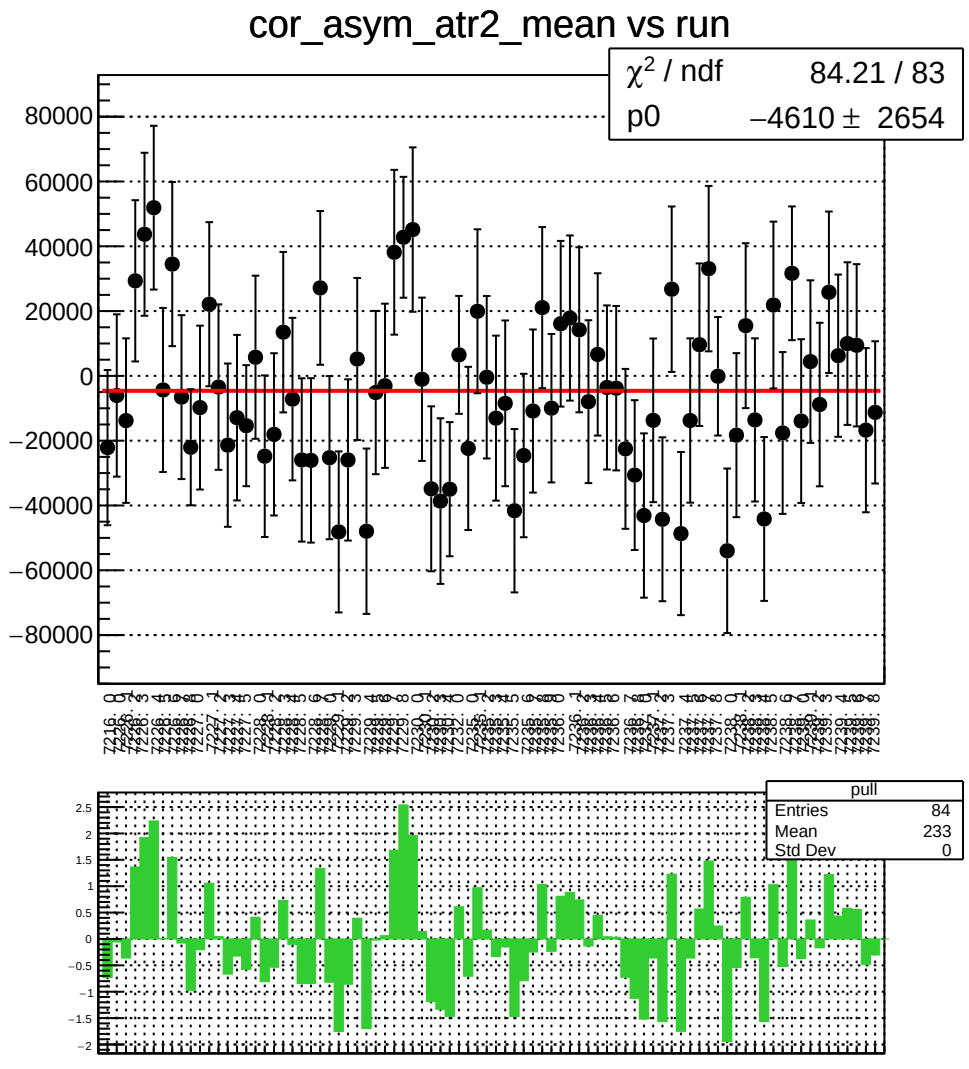

pull1D
Entries 84
Mean −0.0065
Std Dev 1.001

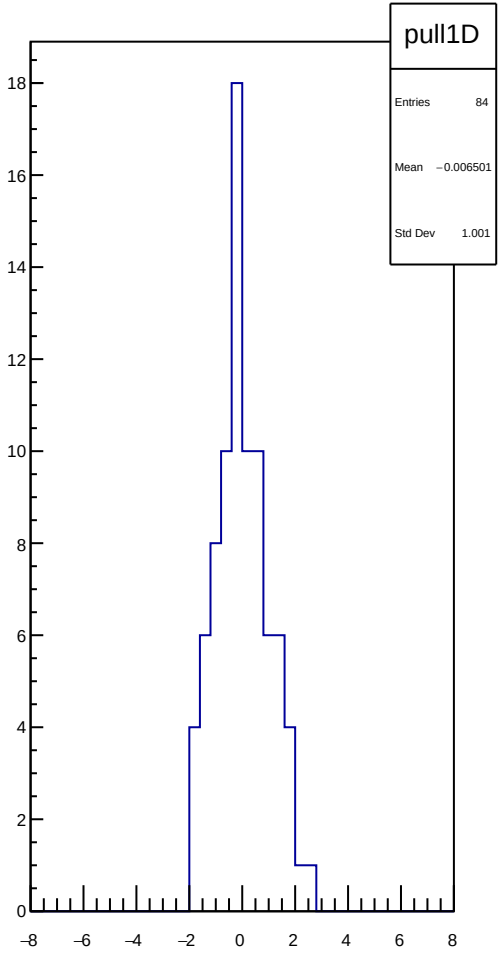

reg_asym_atr2_rms vs run
χ^2 / ndf 133.5 / 83
p0 2393 ± 1.877
2460
2440
2420
2400
2380
2360
2340
2320

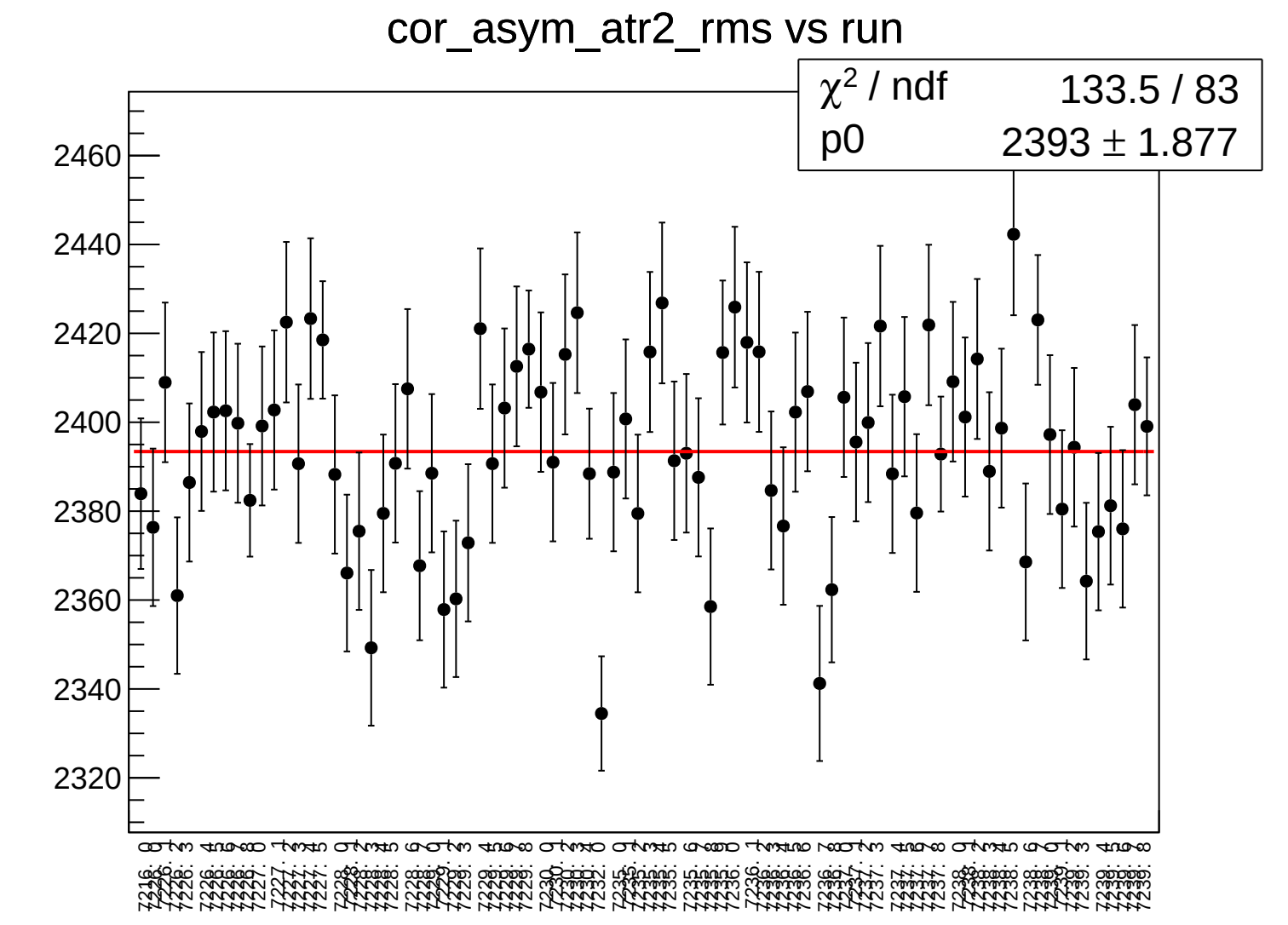

asym_atr2_reg_correction_mean vs run
×10^3
χ² / ndf 99.49 / 83
p0 1.003e+04 ± 1.033e+04
pull
Entries 84
Mean −169.9
Std Dev 0

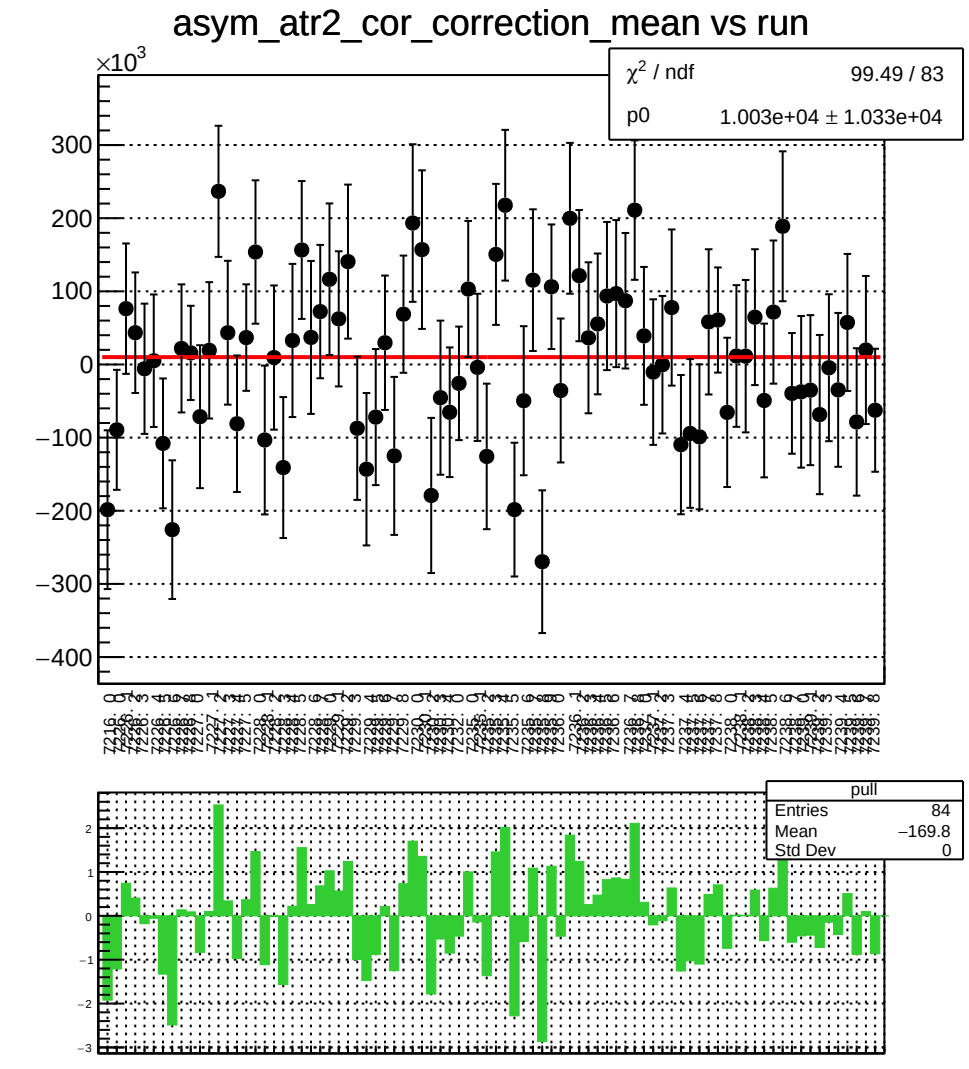

pull1D
Entries 84
Mean −0.006332
Std Dev 1.088

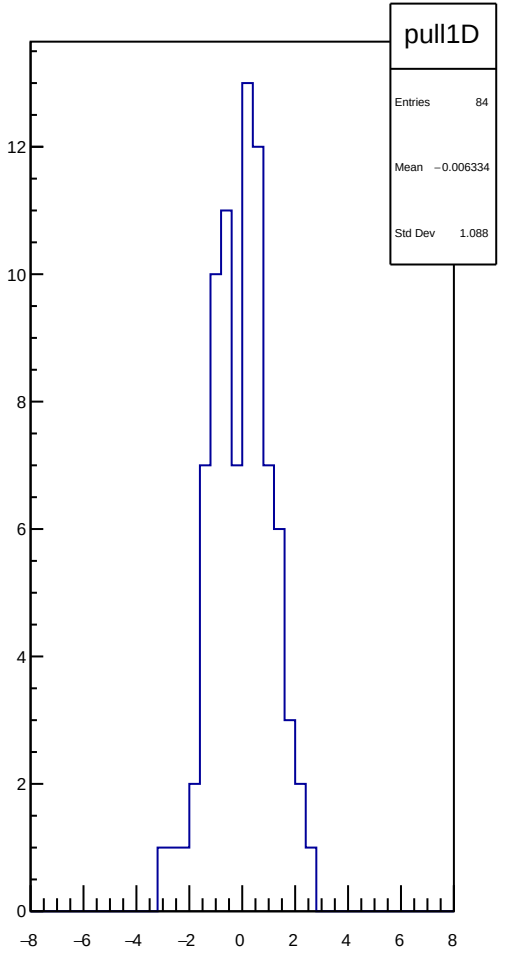

asym_atr2_reg_correction_rms vs run
χ² / ndf 6806 / 83
p0 9299 ± 7.306
11000
10500
10000
9500
9000
8500
8000
7500

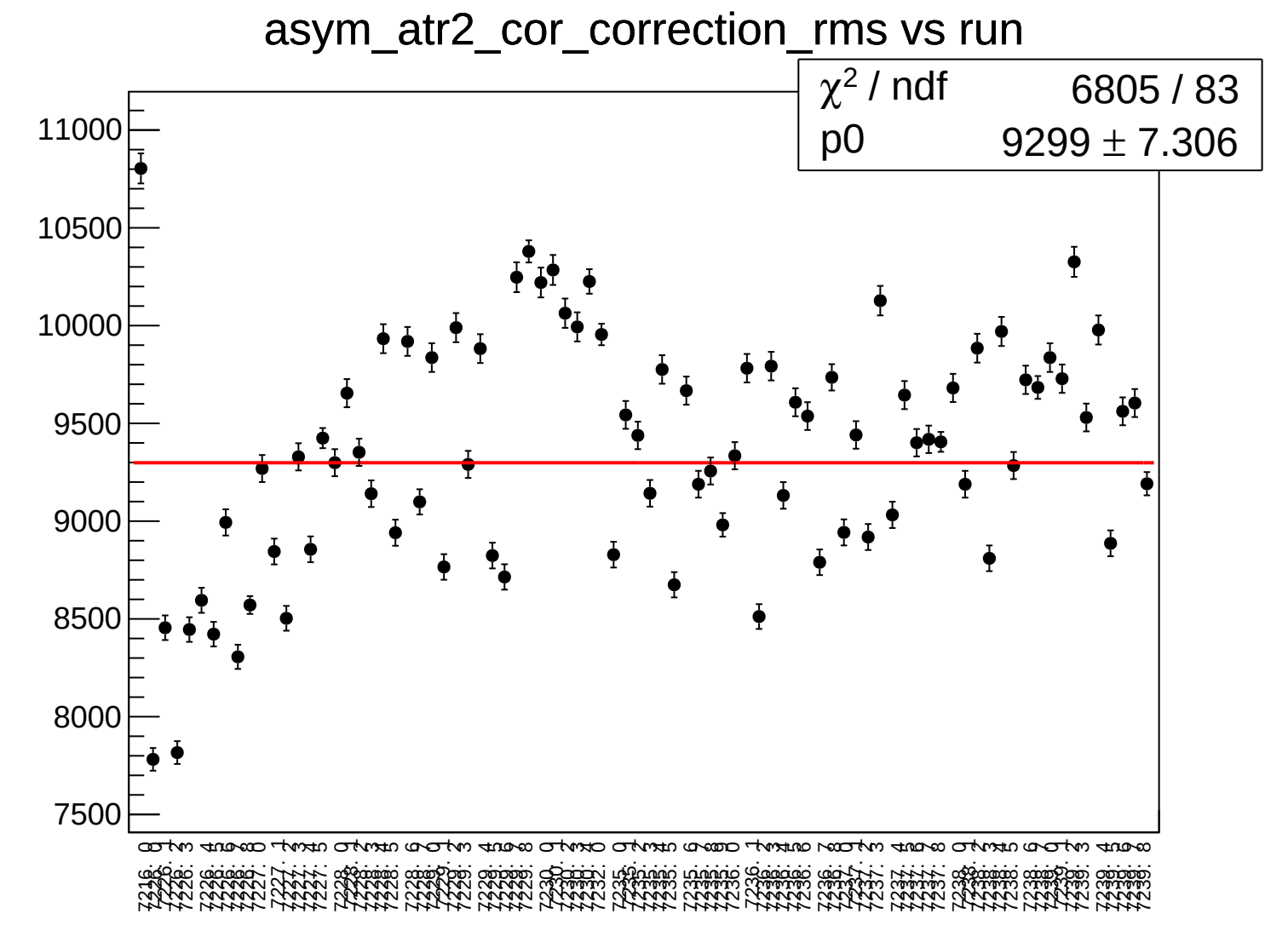

cor_asym_atr2_mean vs run
χ² / ndf 84.21 / 83
p0 −4610 ± 2654
pull
Entries 84
Mean 233
Std Dev 0

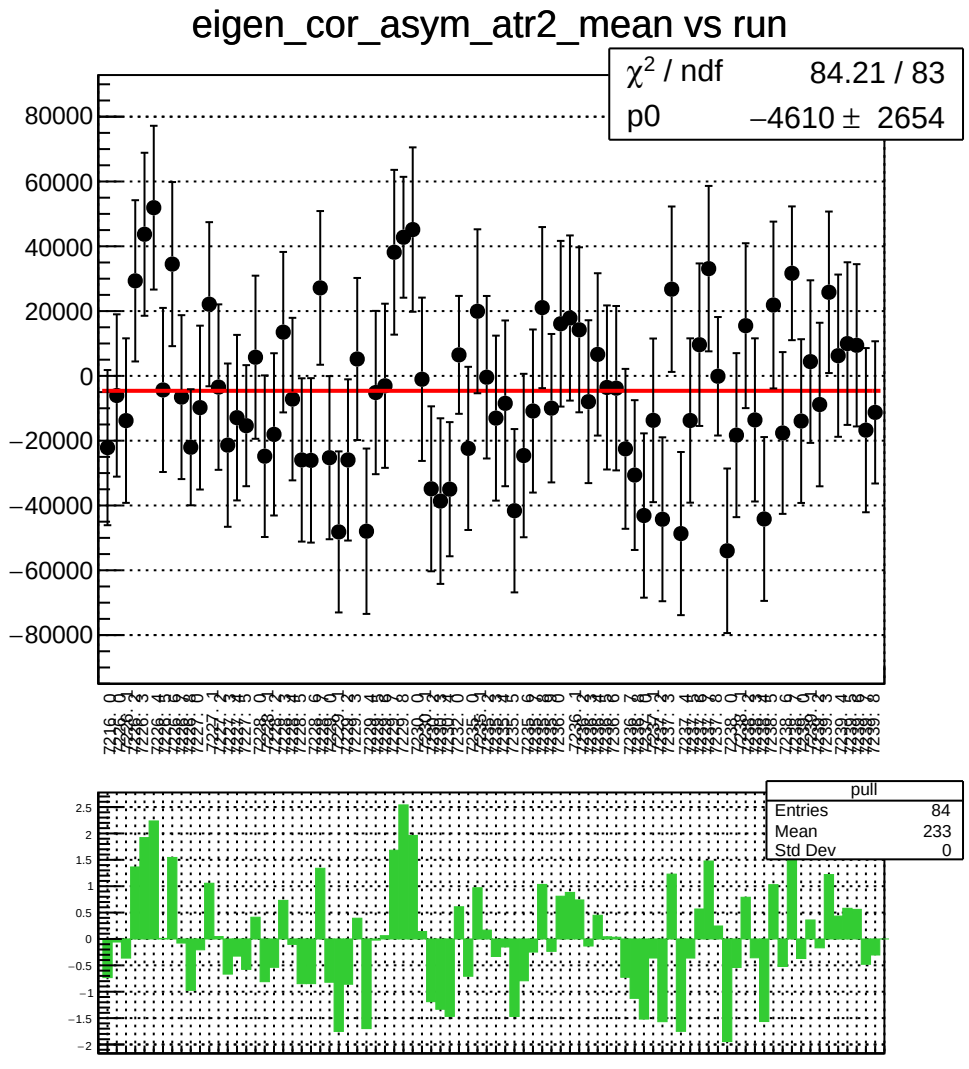

pull1D
Entries 84
Mean −0.006501
Std Dev 1.001

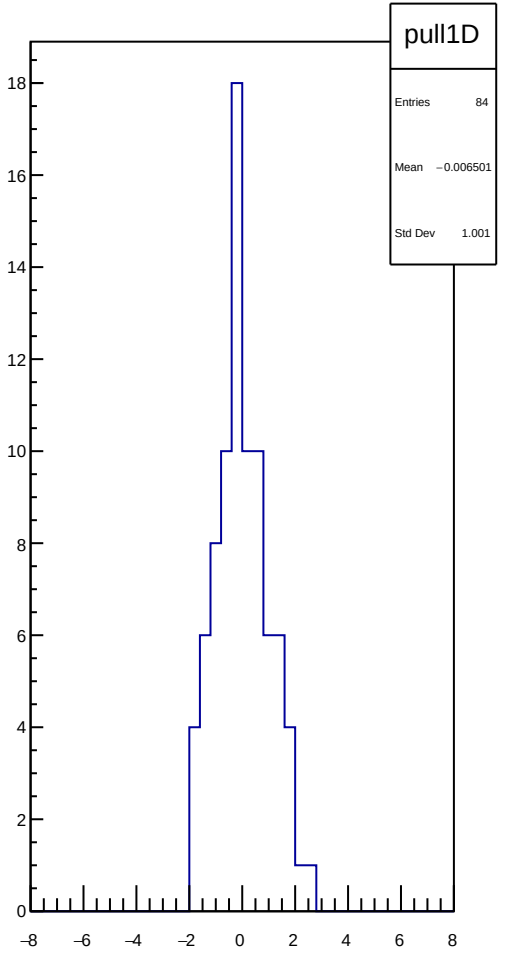

cor_asym_atr2_rms vs run
χ^2 / ndf 133.5 / 83
p0 2393 ± 1.877
2460
2440
2420
2400
2380
2360
2340
2320

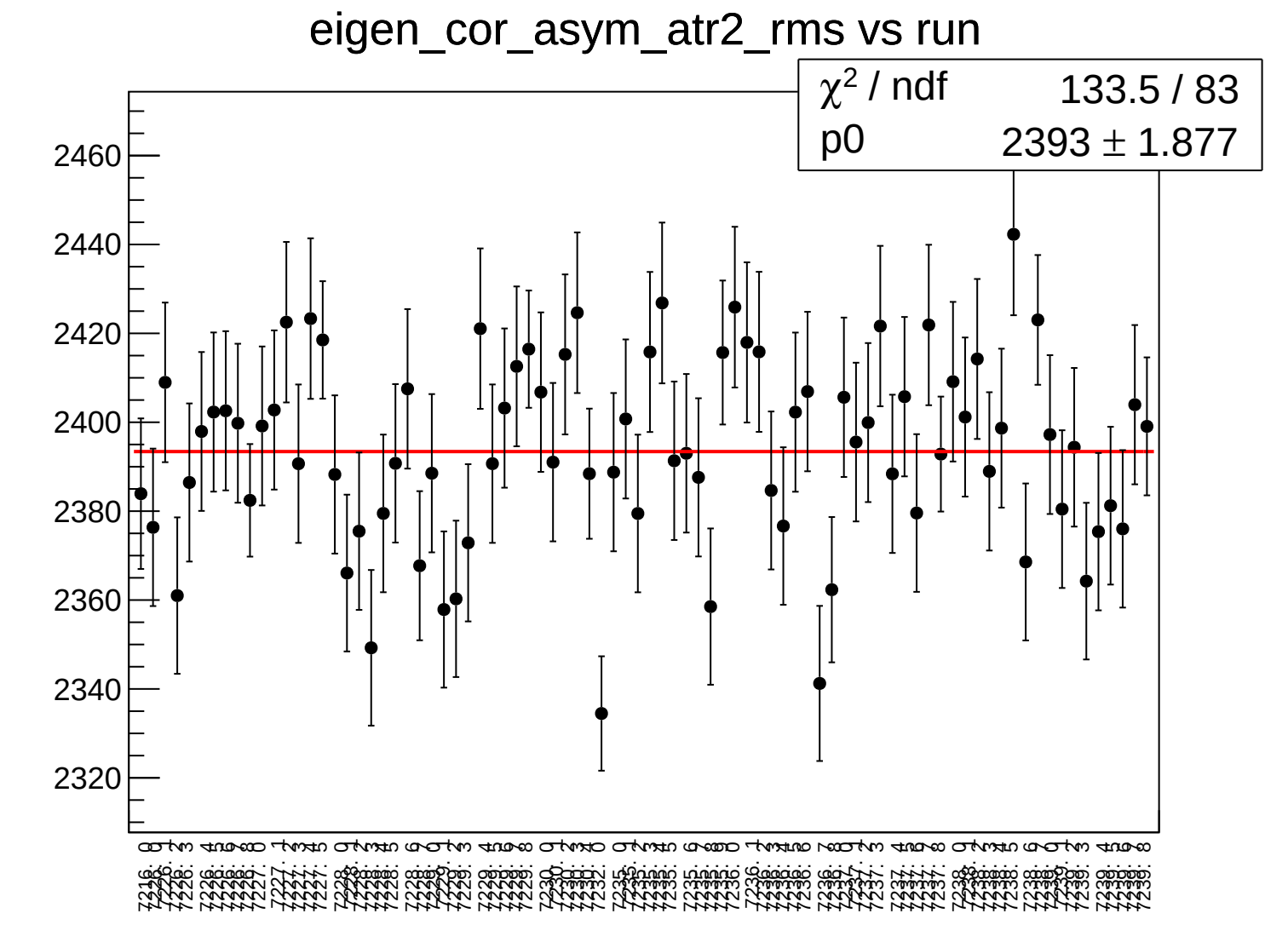

asym_atr2_cor_correction_mean vs run
×10^3
χ² / ndf 99.49 / 83
p0 1.003e+04 ± 1.033e+04
300
200
100
0
−100
−200
−300
−400
pull
Entries 84
Mean −169.8
Std Dev 0
2
1
0
−1
−2
−3

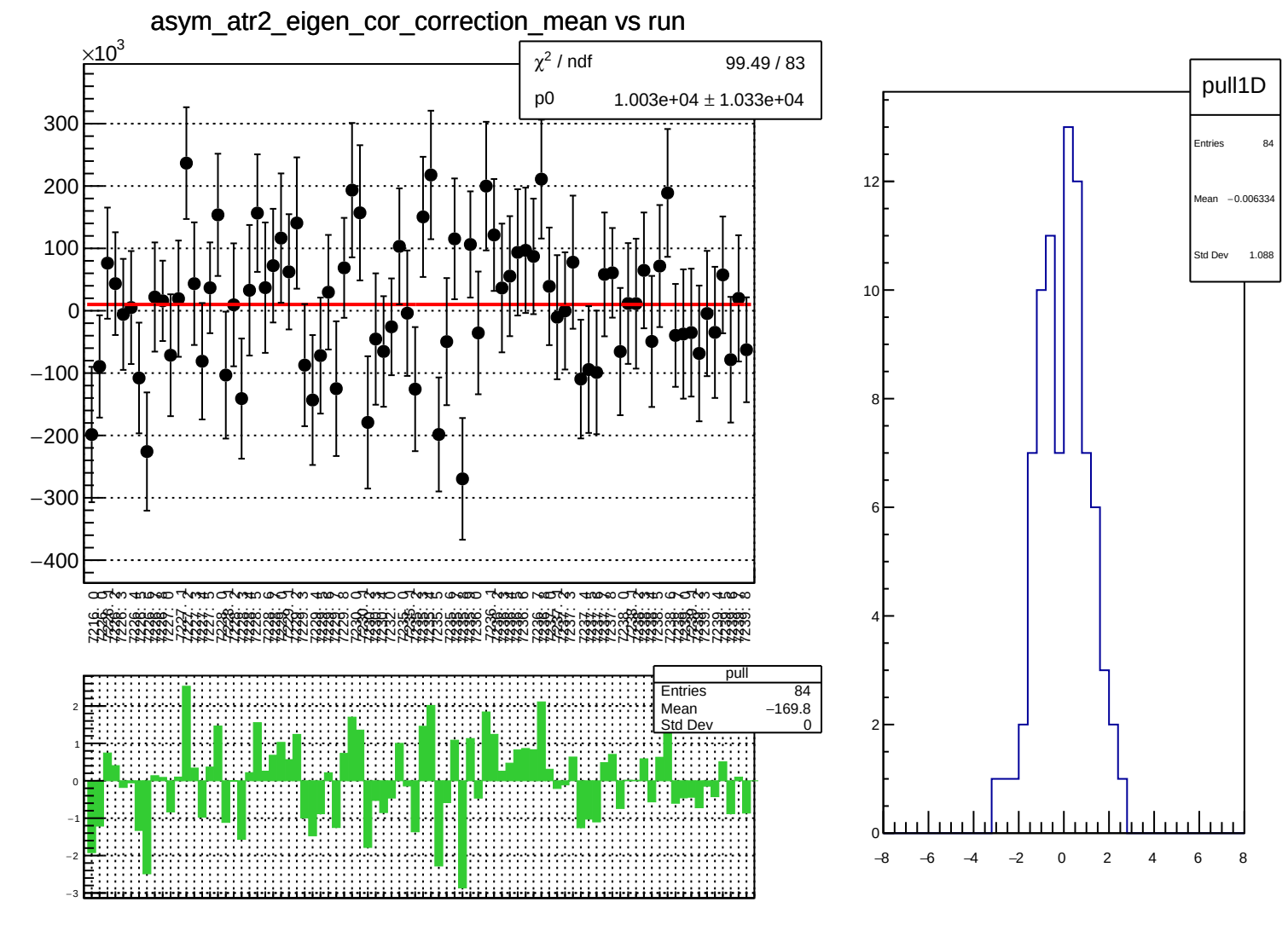

pull1D
Entries 84
Mean −0.006334
Std Dev 1.088
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

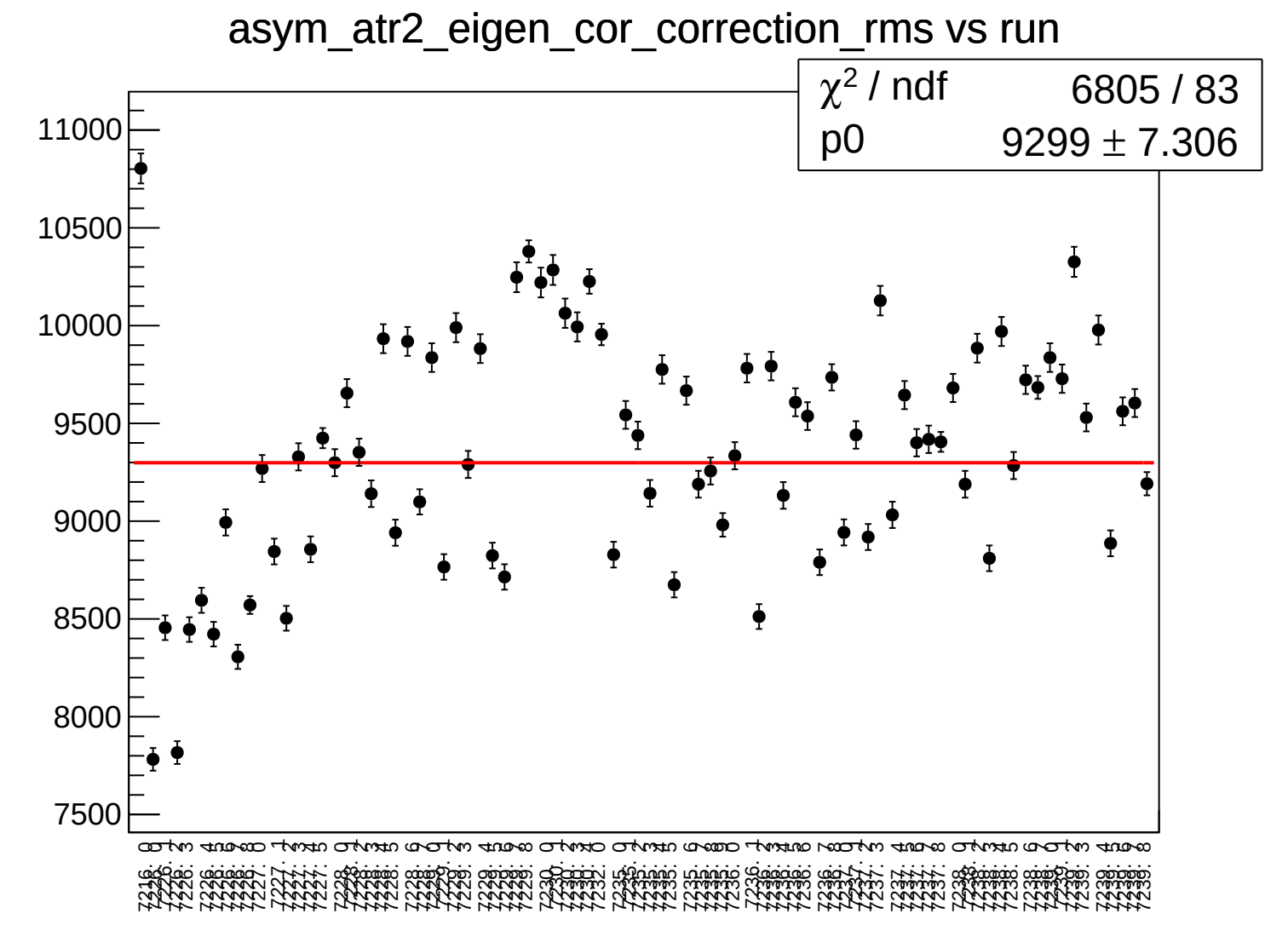

asym_atr2_cor_correction_rms vs run
χ² / ndf 6805 / 83
p0 9299 ± 7.306
11000
10500
10000
9500
9000
8500
8000
7500

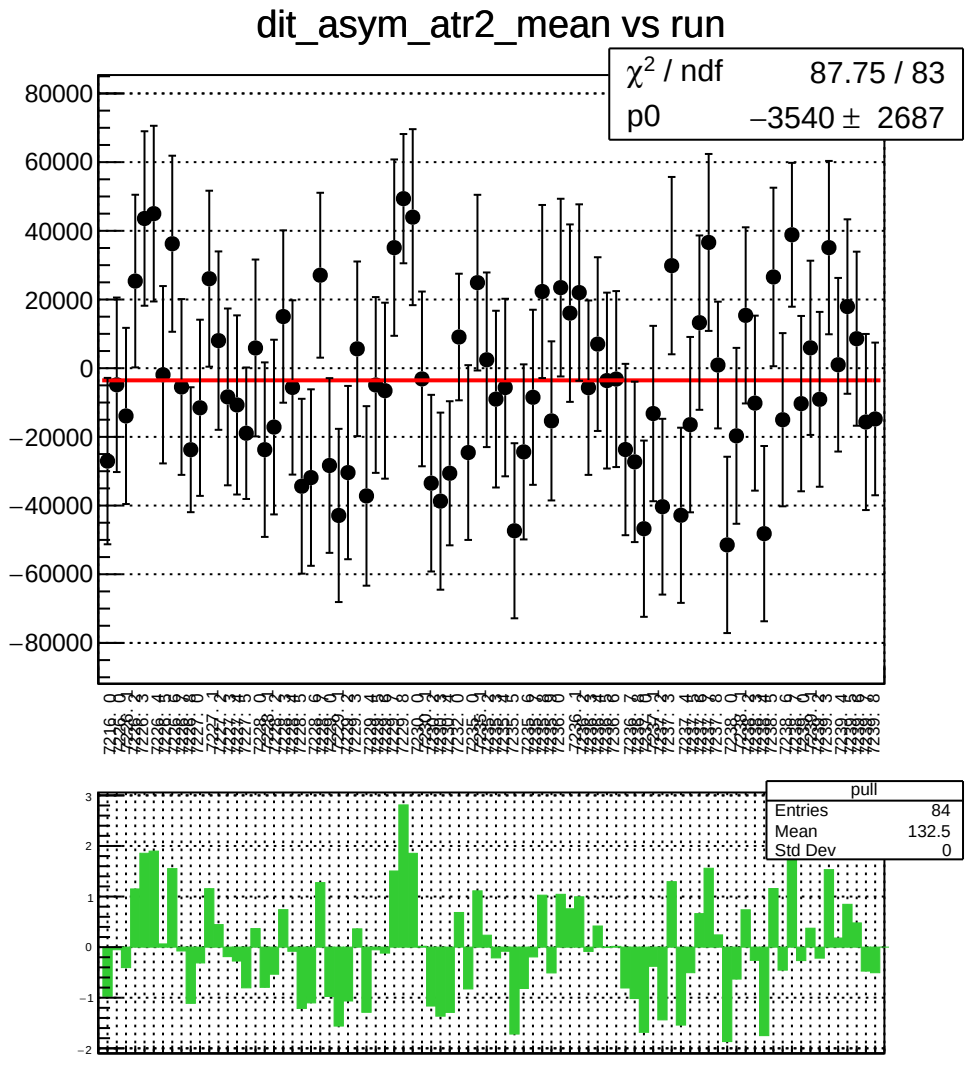

eigen_cor_asym_atr2_mean vs run
χ² / ndf 84.21 / 83
p0 −4610 ± 2654
pull
Entries 84
Mean 233
Std Dev 0

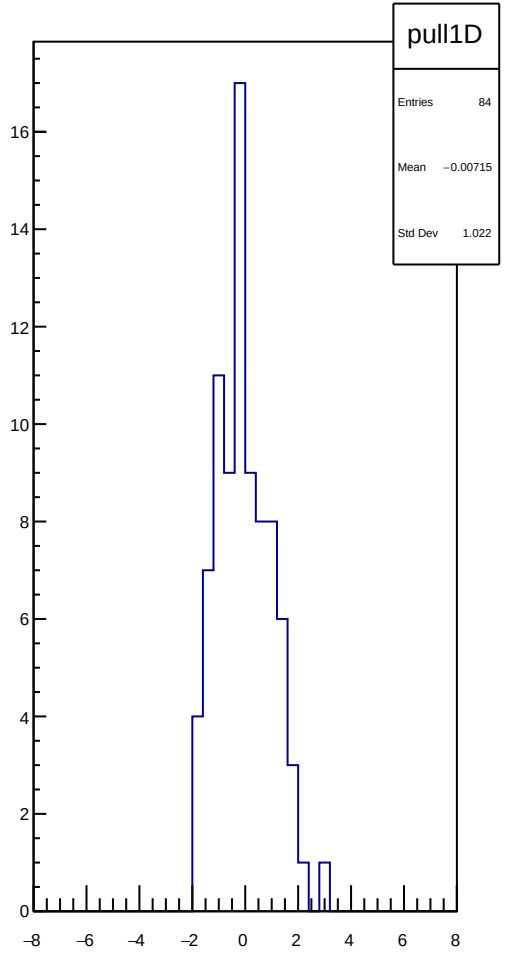

pull1D
Entries 84
Mean −0.006501
Std Dev 1.001

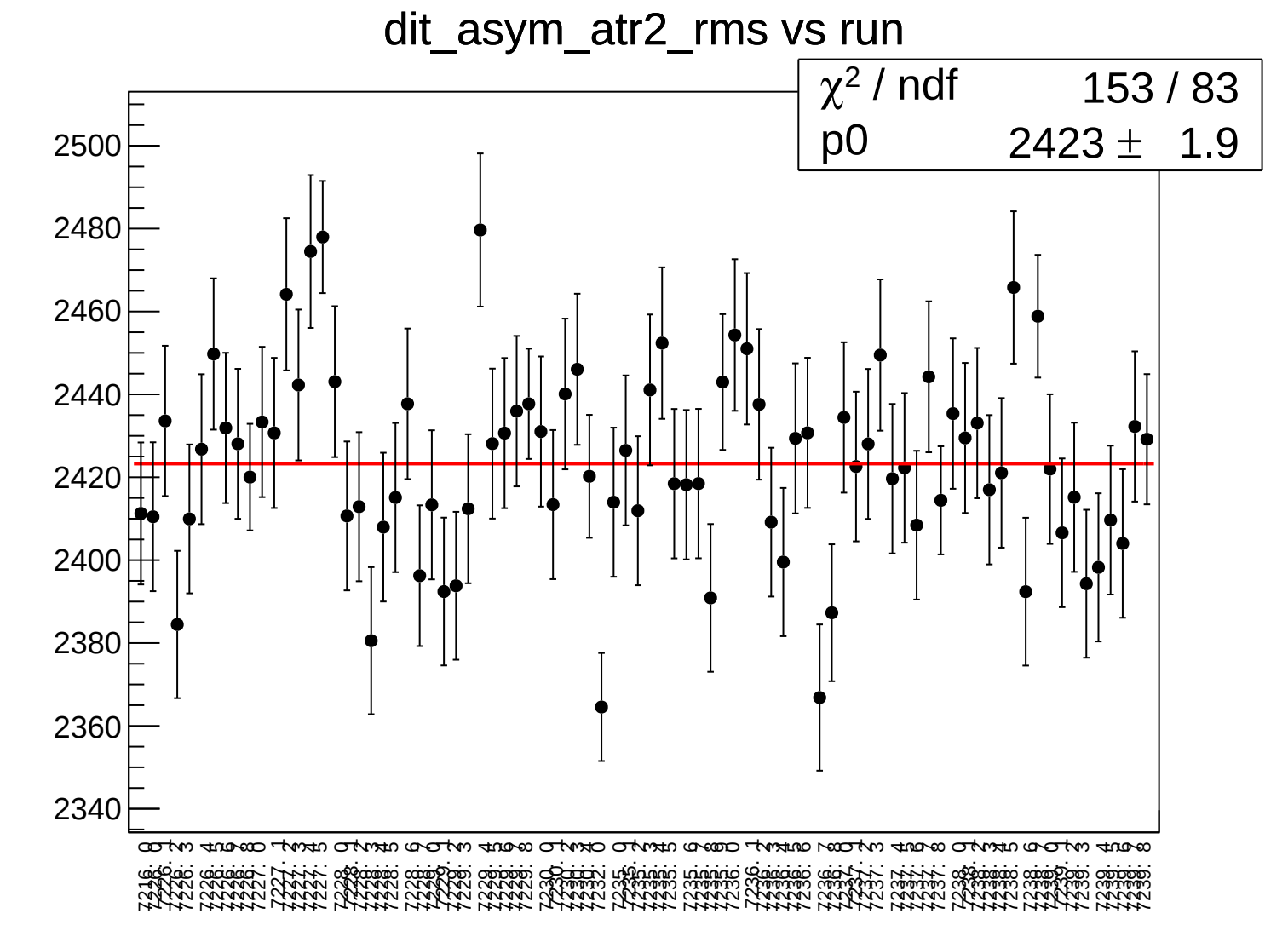

eigen_cor_asym_atr2_rms vs run
χ^2 / ndf 133.5 / 83
p0 2393 ± 1.877
2460
2440
2420
2400
2380
2360
2340
2320

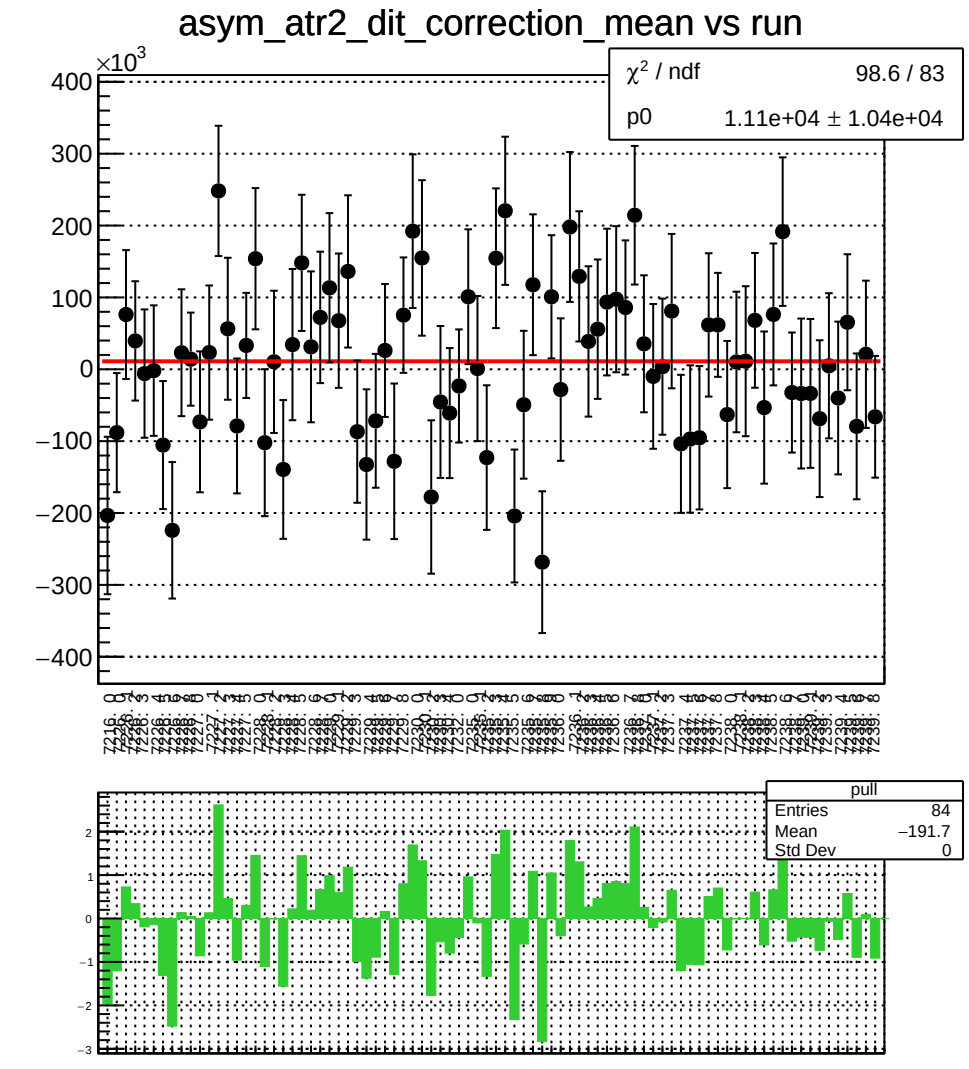

asym_atr2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 99.49 / 83
p0 1.003e+04 ± 1.033e+04
300
200
100
0
−100
−200
−300
−400
pull
Entries 84
Mean −169.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean −0.006334
Std Dev 1.088
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

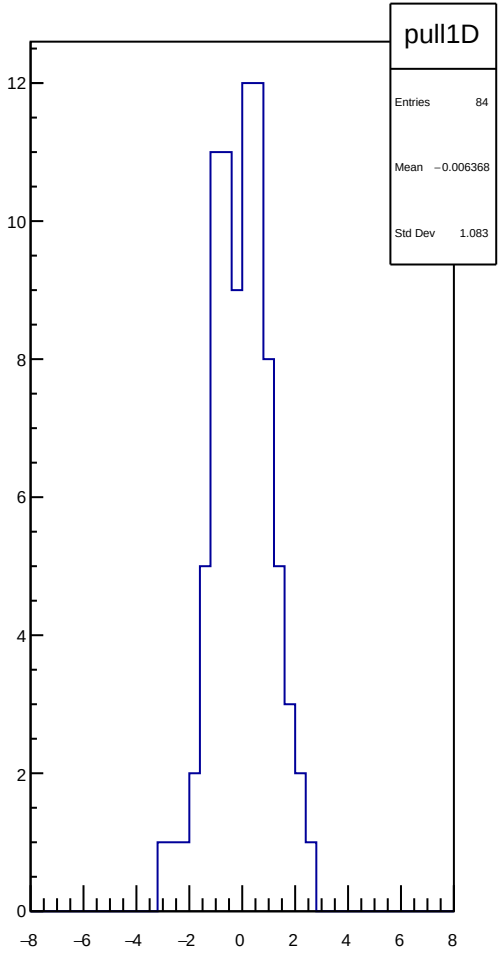

asym_atr2_eigen_cor_correction_rms vs run
χ^2 / ndf 6805 / 83
p0 9299 ± 7.306
11000
10500
10000
9500
9000
8500
8000
7500

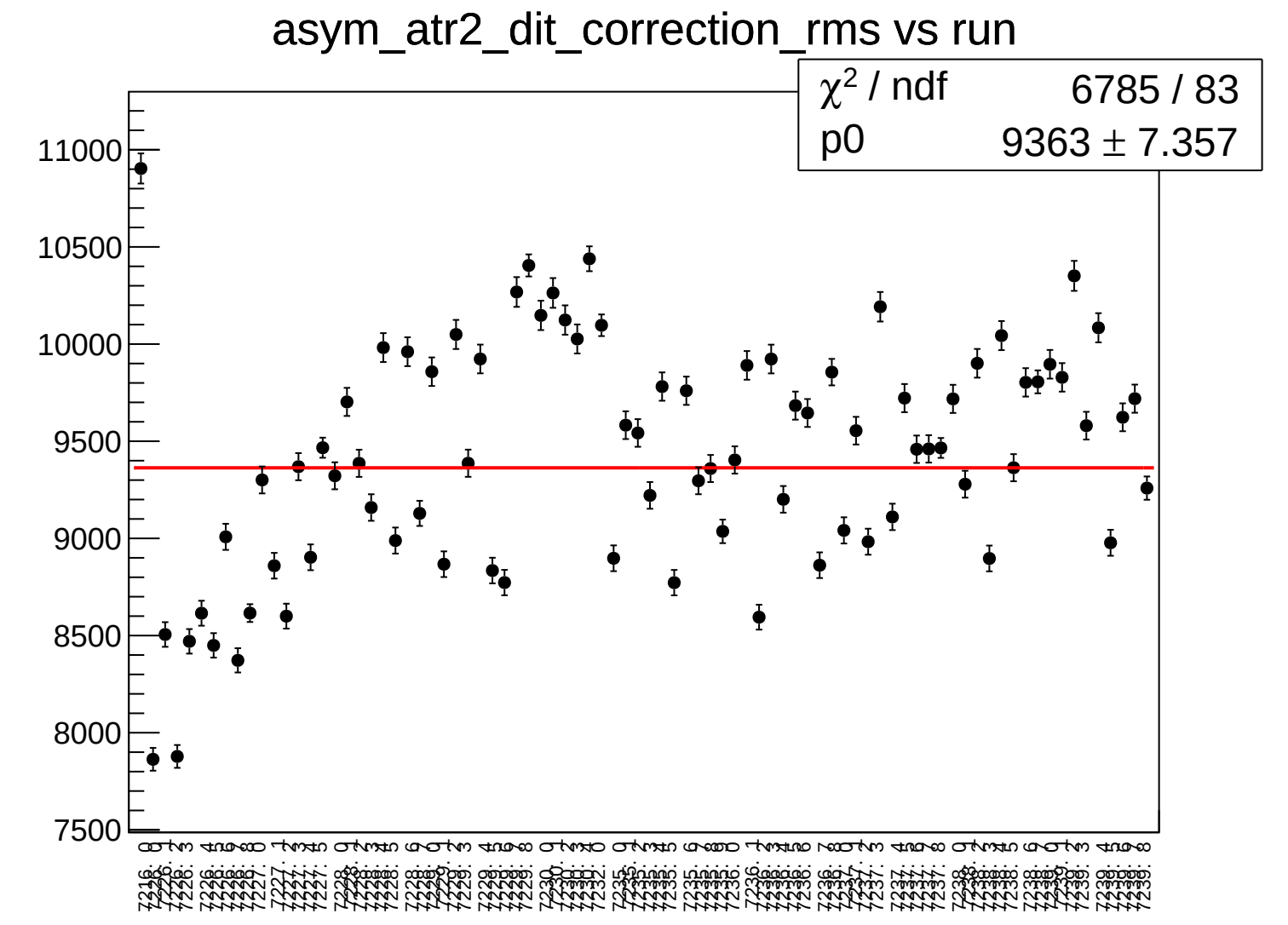

dit_asym_atr2_mean vs run
χ² / ndf 87.75 / 83
p0 −3540 ± 2687
pull
Entries 84
Mean 132.5
Std Dev 0

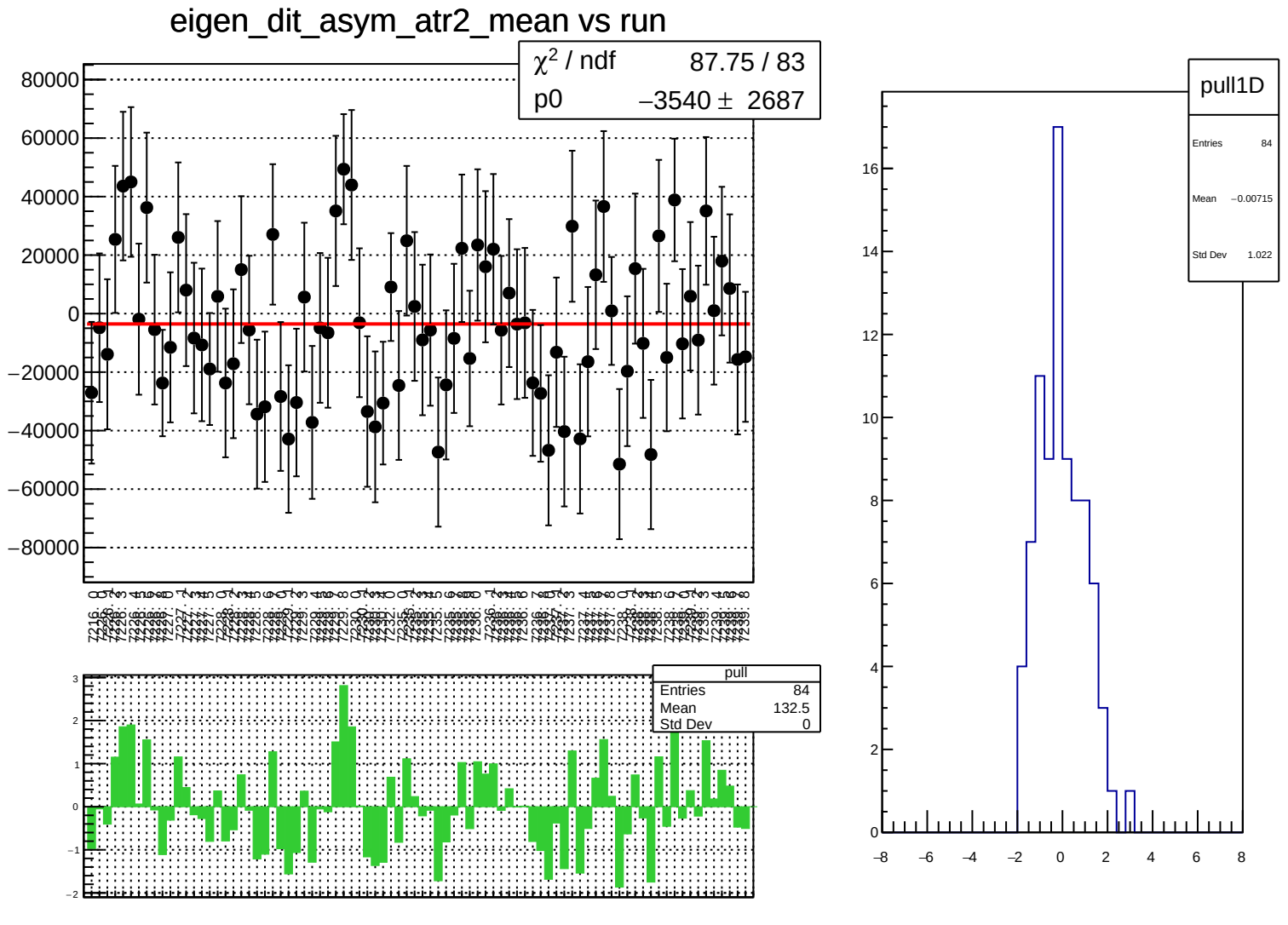

pull1D
Entries 84
Mean −0.00715
Std Dev 1.022

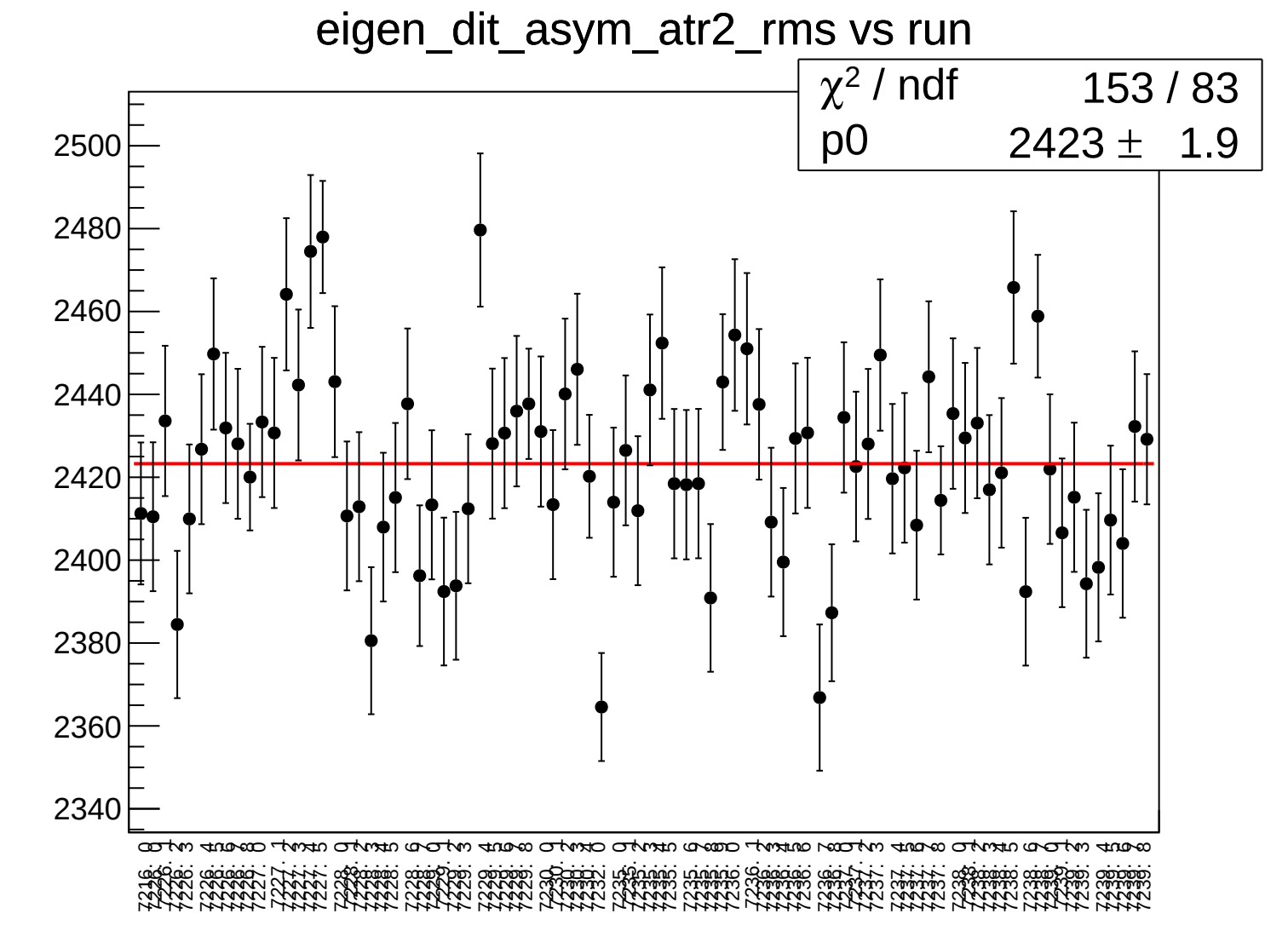

dit_asym_atr2_rms vs run
χ² / ndf 153 / 83
p0 2423 ± 1.9
2500
2480
2460
2440
2420
2400
2380
2360
2340

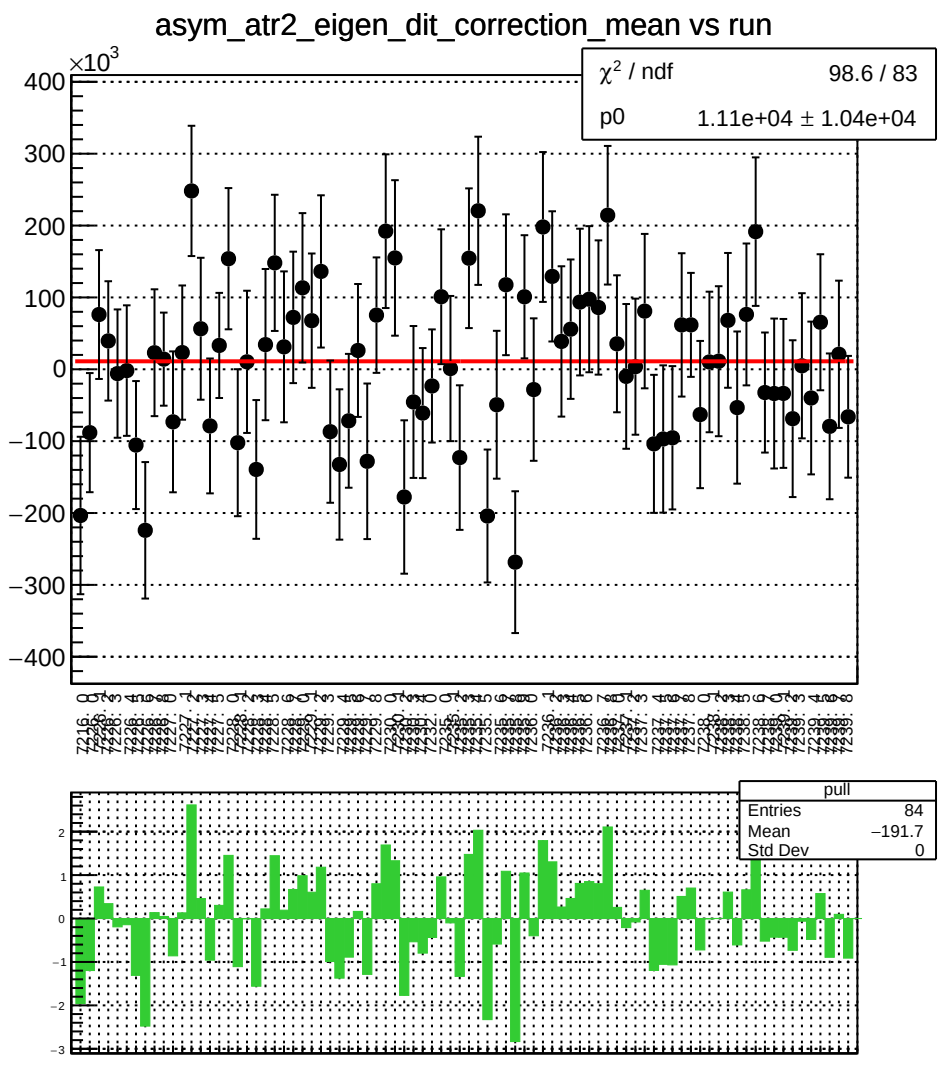

asym_atr2_dit_correction_mean vs run
×10^3
χ² / ndf 98.6 / 83
p0 1.11e+04 ± 1.04e+04
pull
Entries 84
Mean −191.7
Std Dev 0

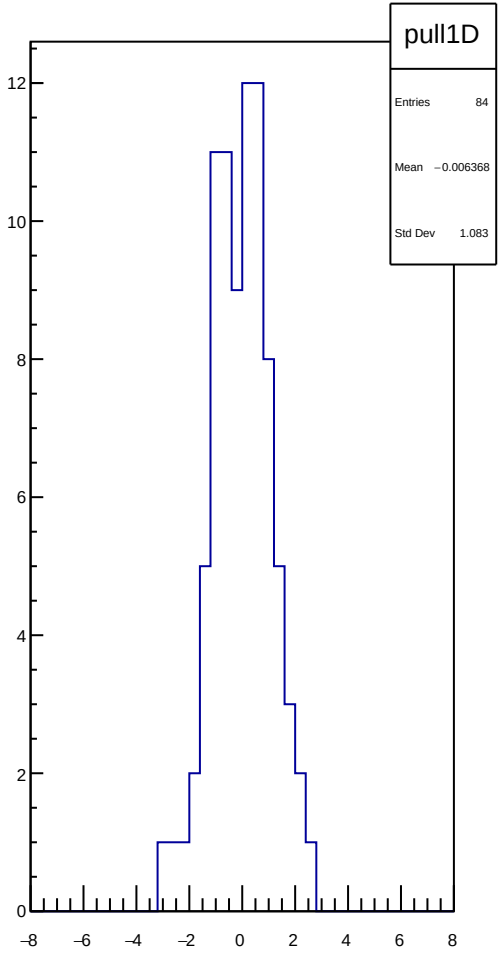

pull1D
Entries 84
Mean −0.006368
Std Dev 1.083

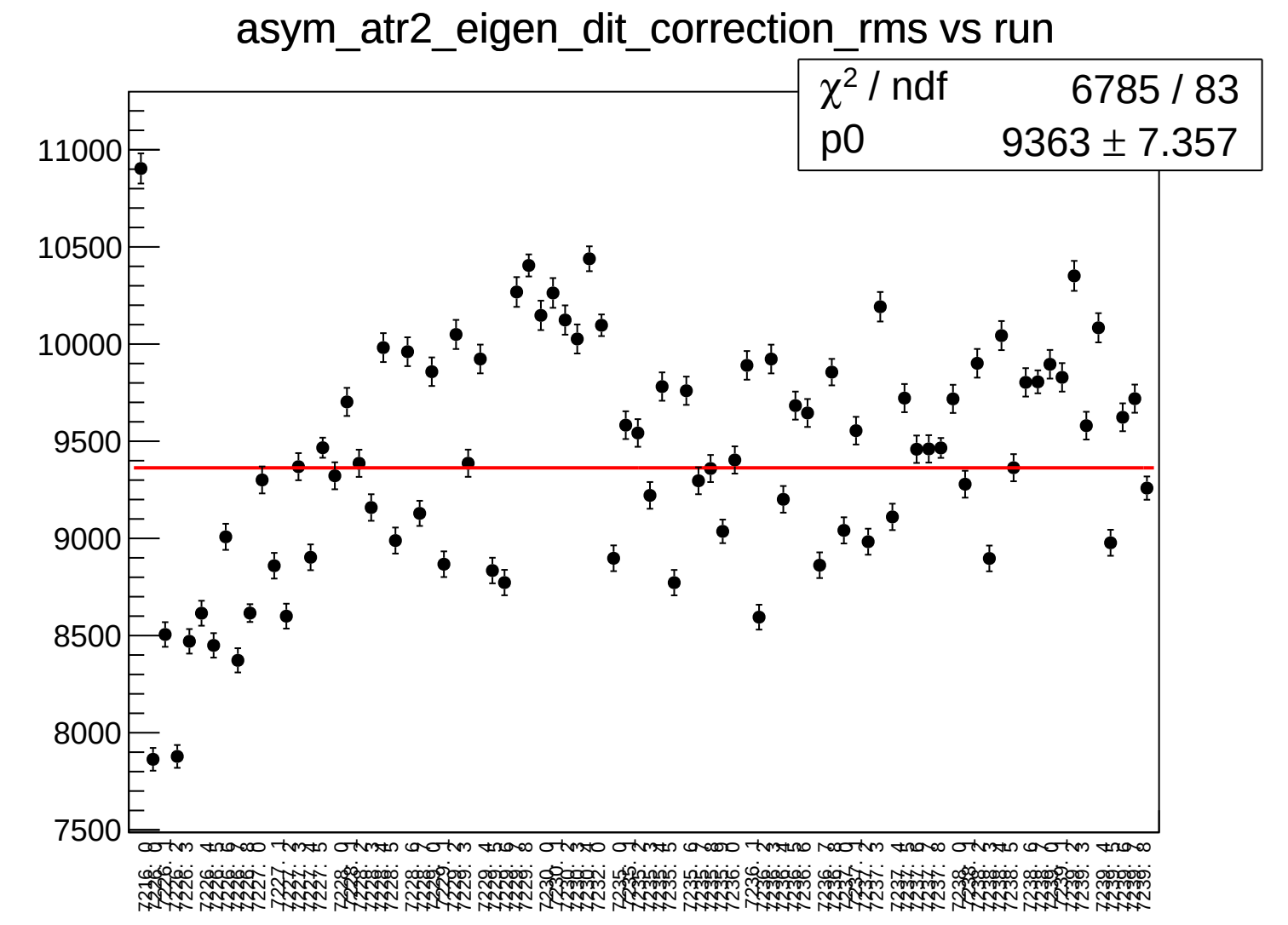

asym_atr2_dit_correction_rms vs run
χ^2 / ndf 6785 / 83
p0 9363 ± 7.357
11000
10500
10000
9500
9000
8500
8000
7500

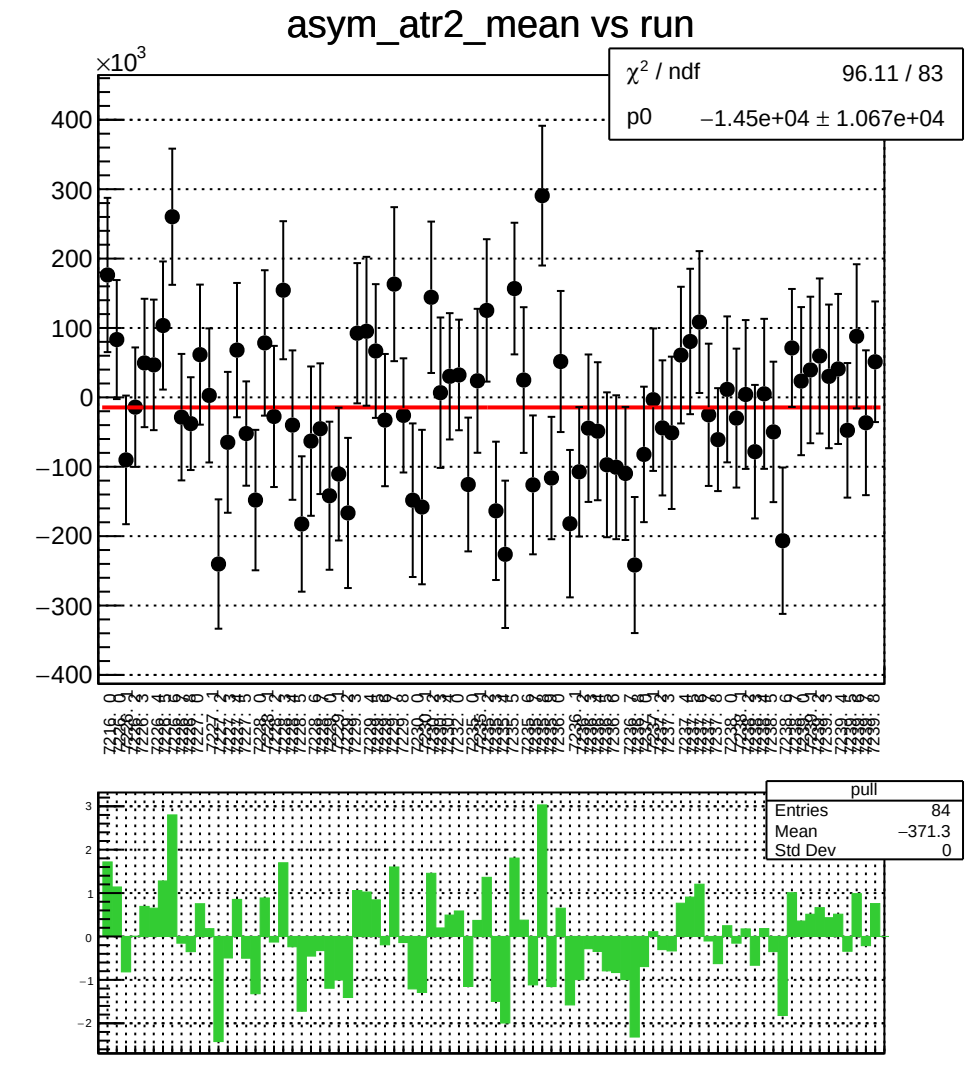

eigen_dit_asym_atr2_mean vs run
χ² / ndf 87.75 / 83
p0 −3540 ± 2687
pull
Entries 84
Mean 132.5
Std Dev 0
pull1D
Entries 84
Mean −0.00715
Std Dev 1.022

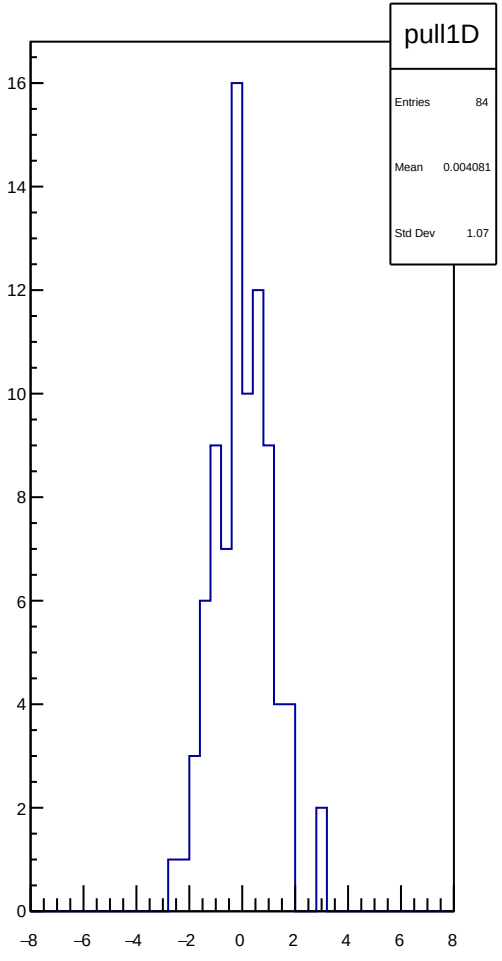

eigen_dit_asym_atr2_rms vs run
χ² / ndf 153 / 83
p0 2423 ± 1.9
2500
2480
2460
2440
2420
2400
2380
2360
2340

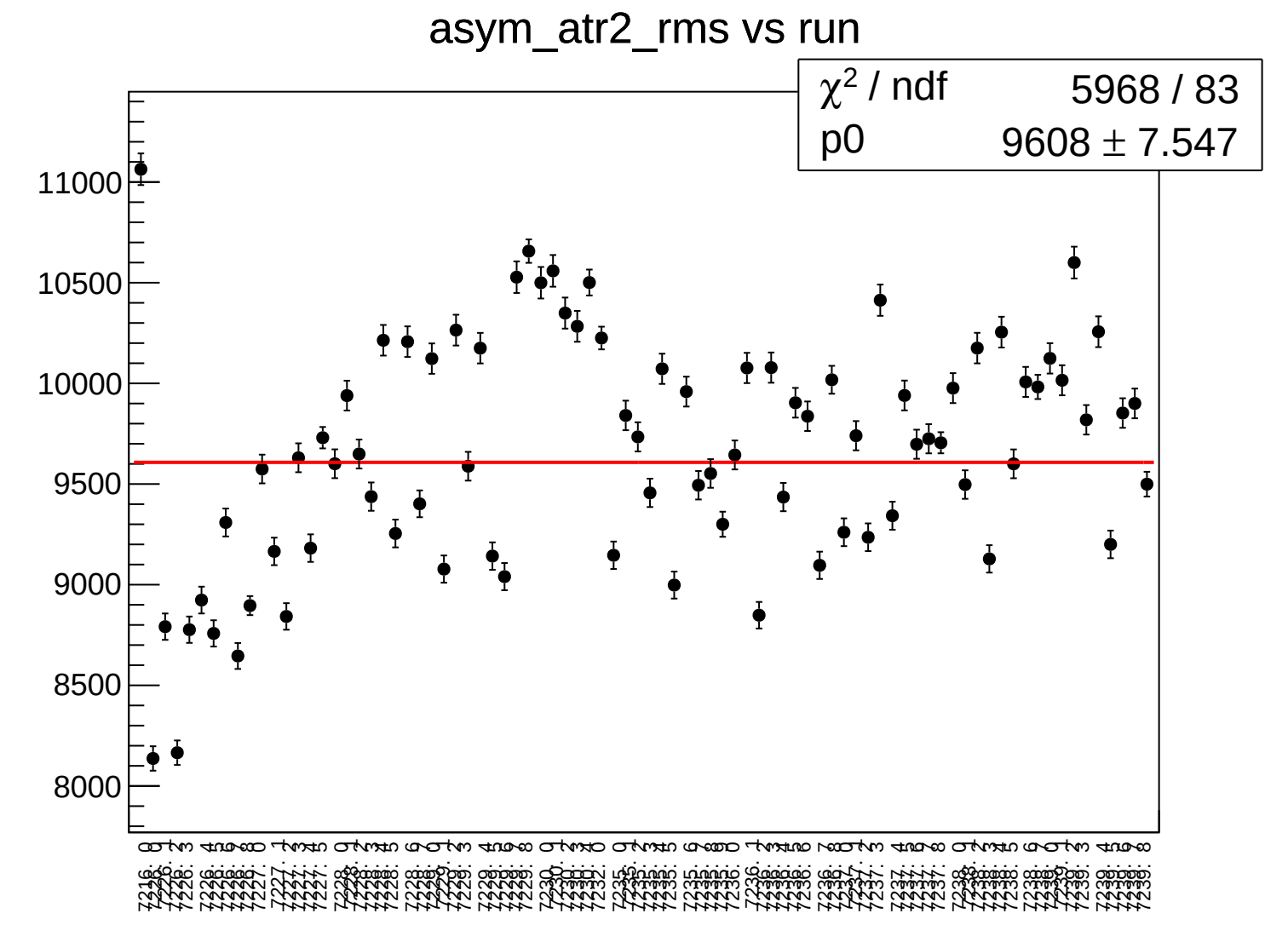

asym_atr2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 98.6 / 83
p0 1.11e+04 ± 1.04e+04
pull
Entries 84
Mean −191.7
Std Dev 0

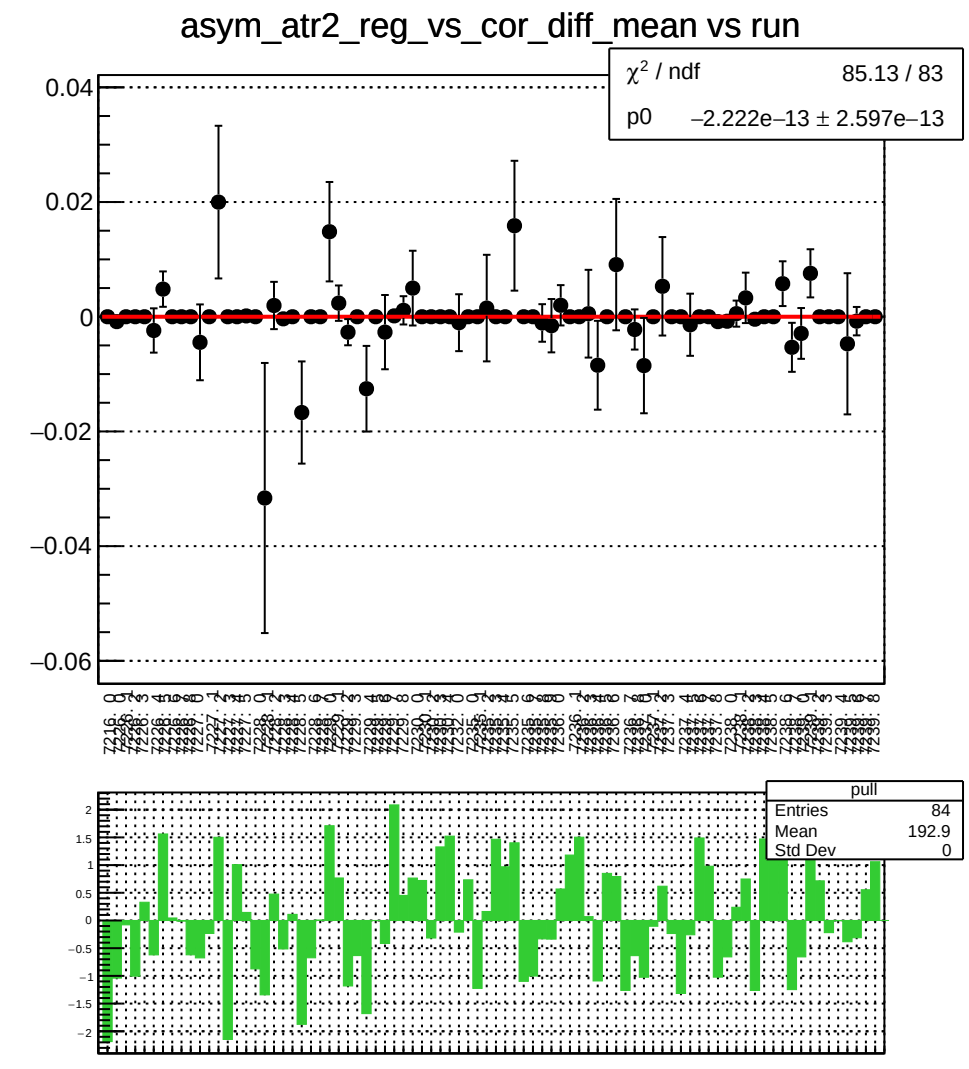

pull1D
Entries 84
Mean −0.006368
Std Dev 1.083

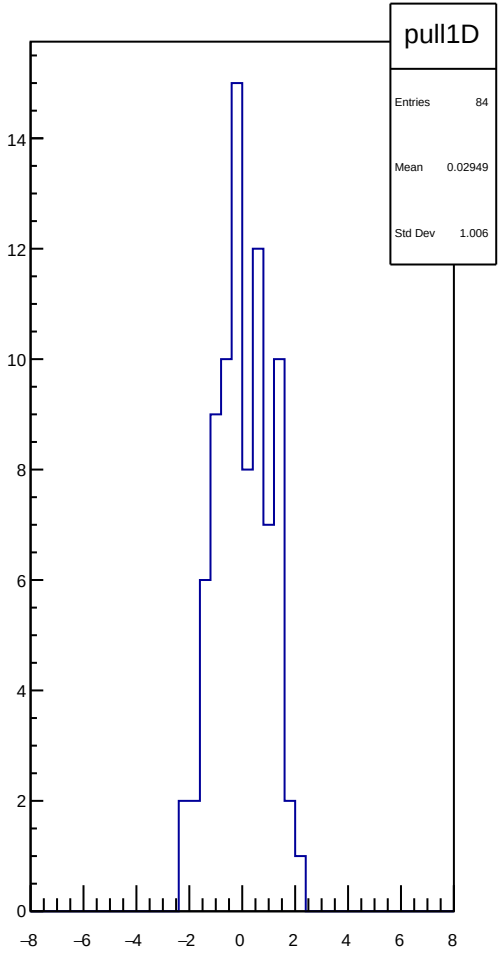

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 6785 / 83
p0 9363 ± 7.357
11000
10500
10000
9500
9000
8500
8000
7500

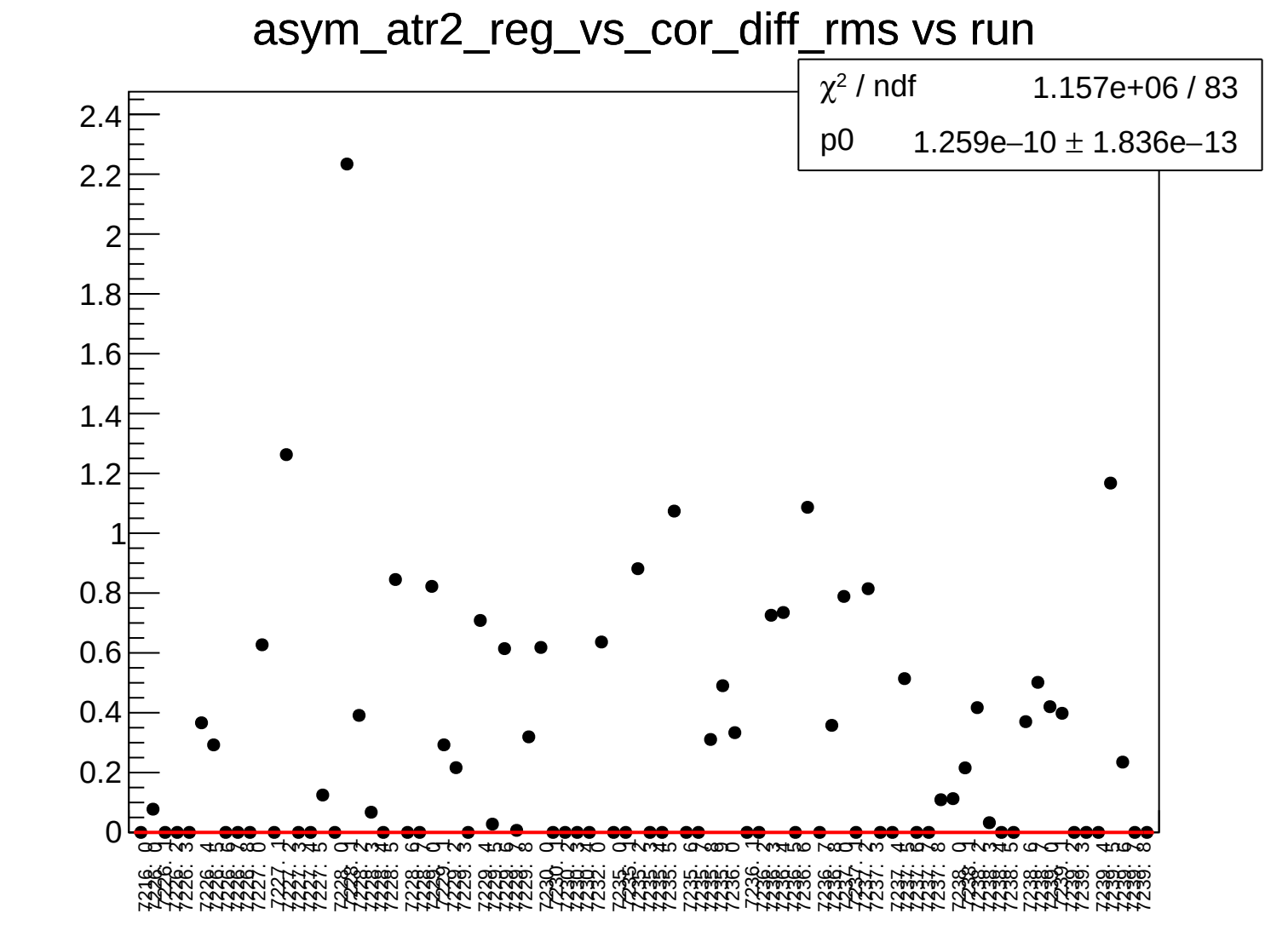

asym_atr2_mean vs run
×10^3
χ² / ndf 96.11 / 83
p0 −1.45e+04 ± 1.067e+04
pull
Entries 84
Mean −371.3
Std Dev 0

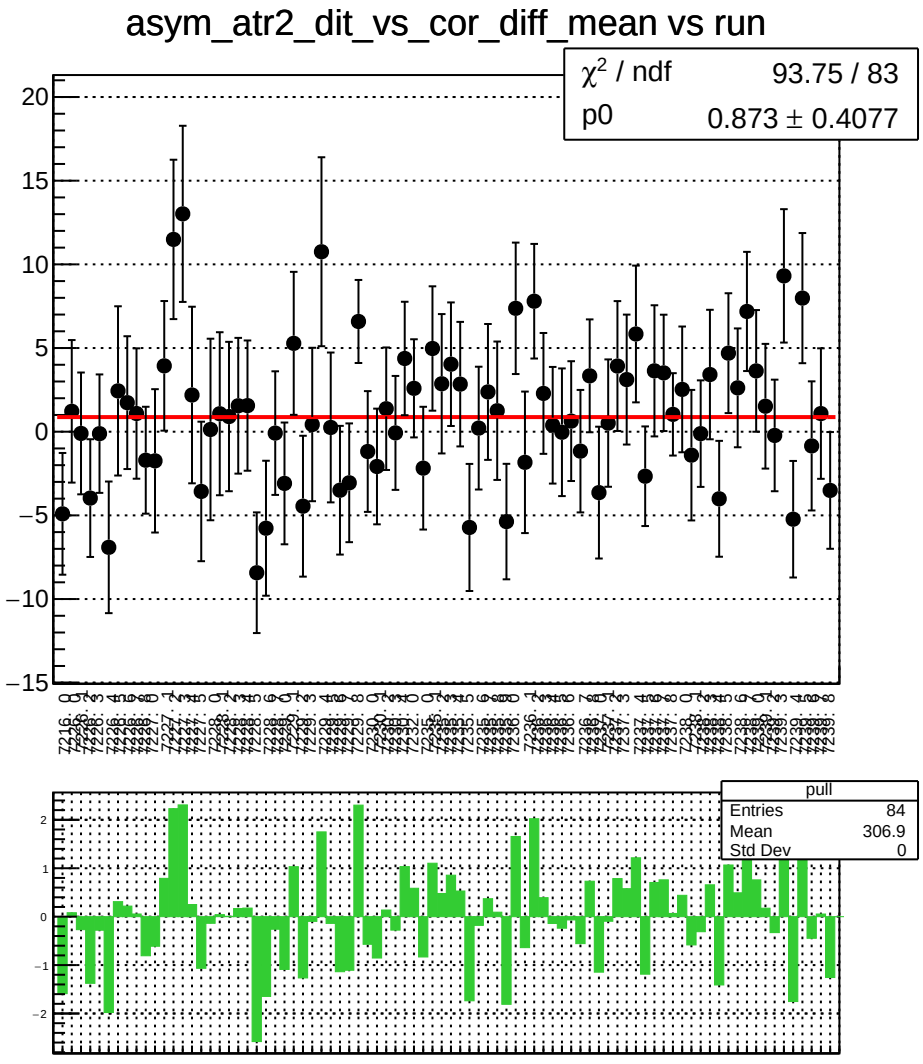

pull1D
Entries 84
Mean 0.004081
Std Dev 1.07

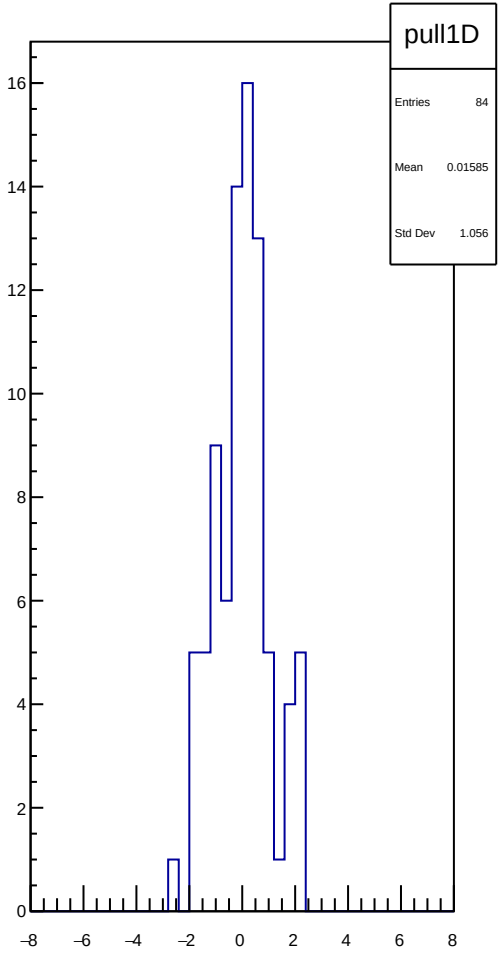

asym_atr2_rms vs run
χ^2 / ndf 5968 / 83
p0 9608 ± 7.547
11000
10500
10000
9500
9000
8500
8000

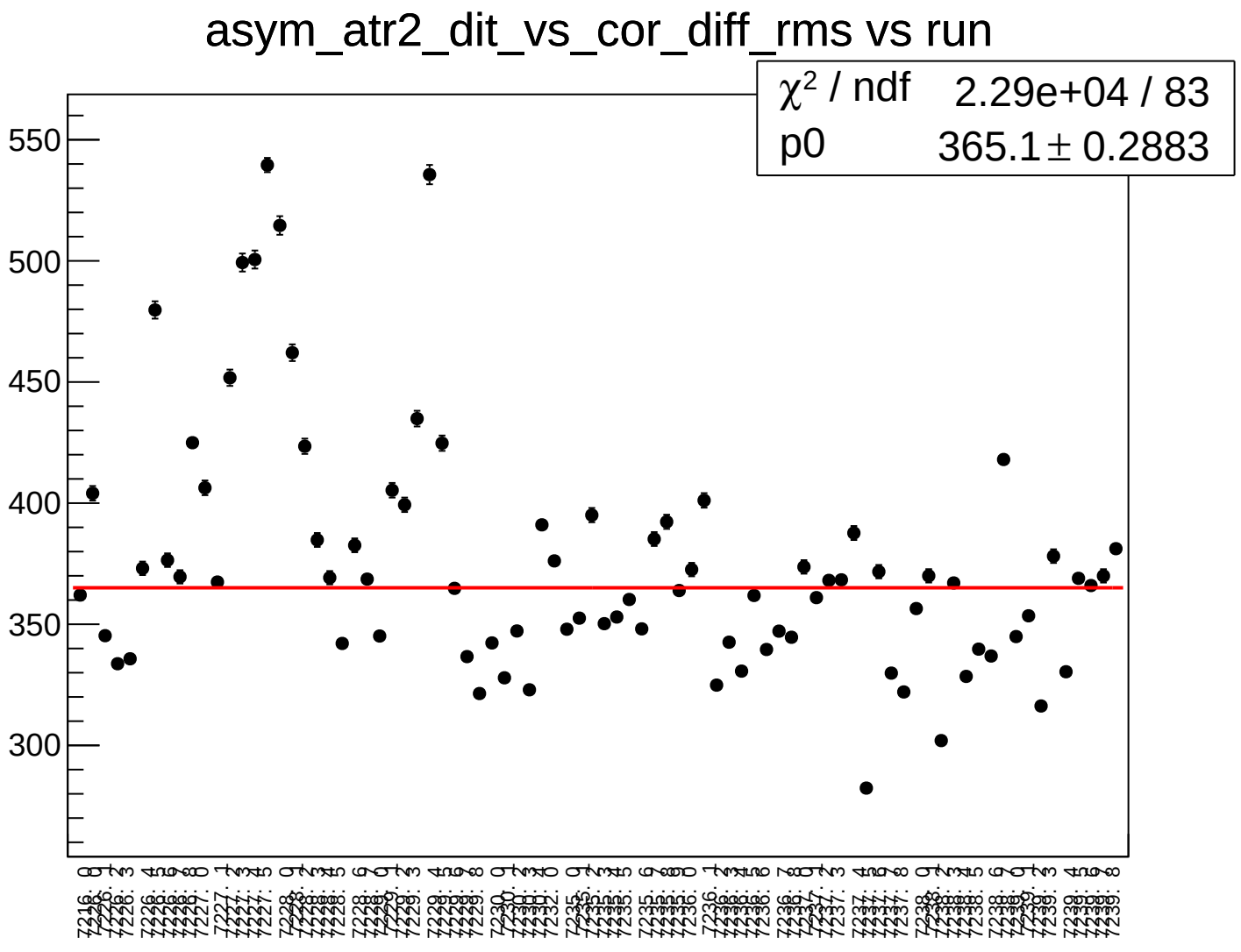

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 85.13 / 83
p0 −2.222e−13 ± 2.597e−13
pull
Entries 84
Mean 192.9
Std Dev 0

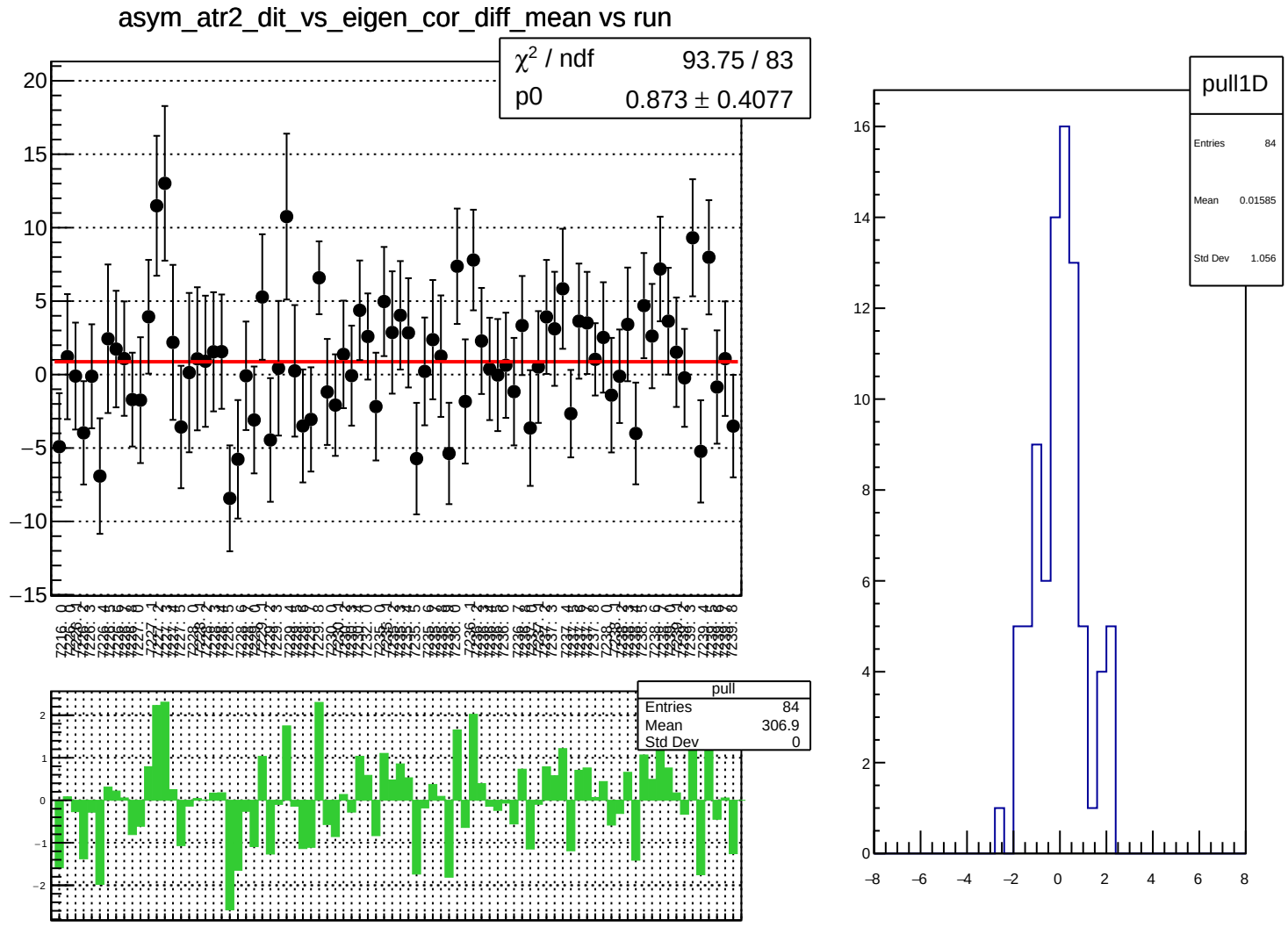

pull1D
Entries 84
Mean 0.02949
Std Dev 1.006

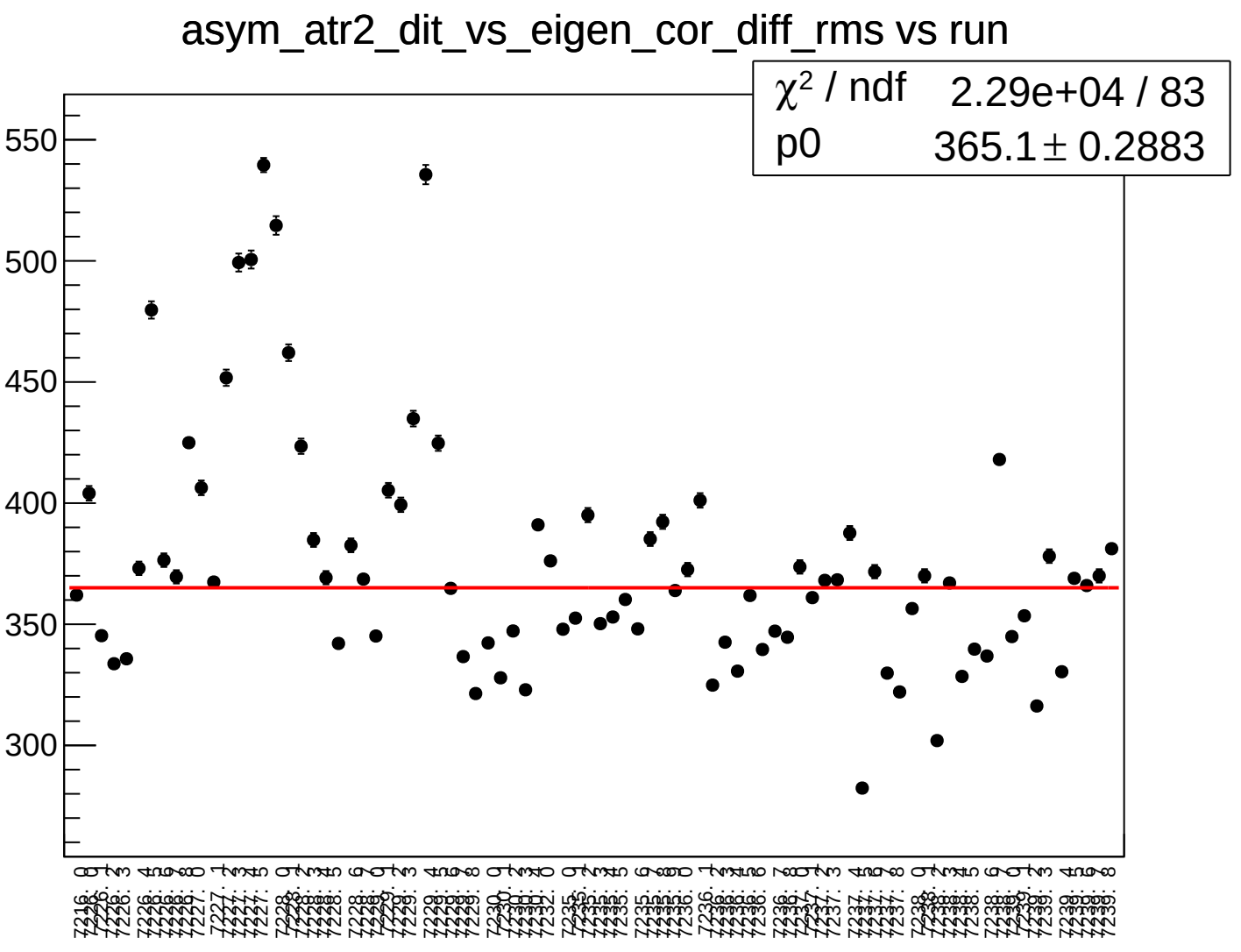

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.157e+06 / 83
p0 1.259e−10 ± 1.836e−13
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

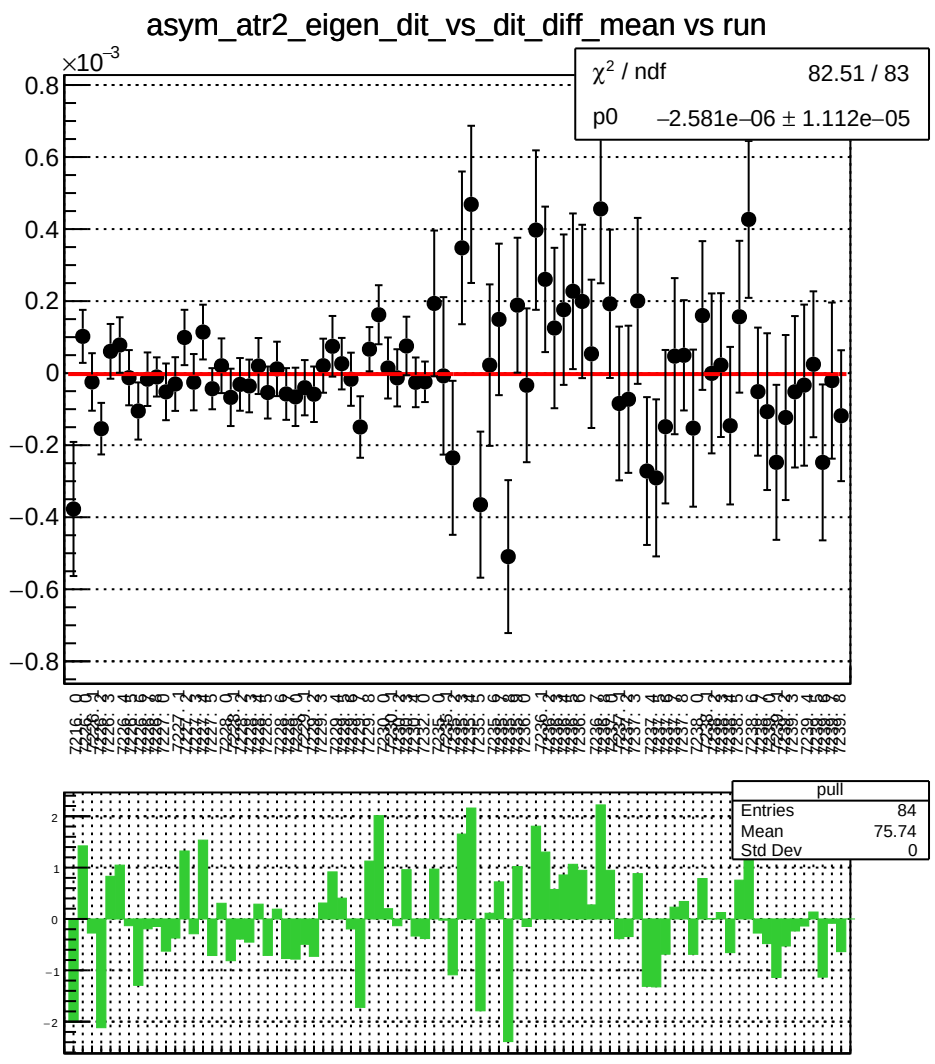

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 93.75 / 83
p0 0.873 ± 0.4077
pull
Entries 84
Mean 306.9
Std Dev 0

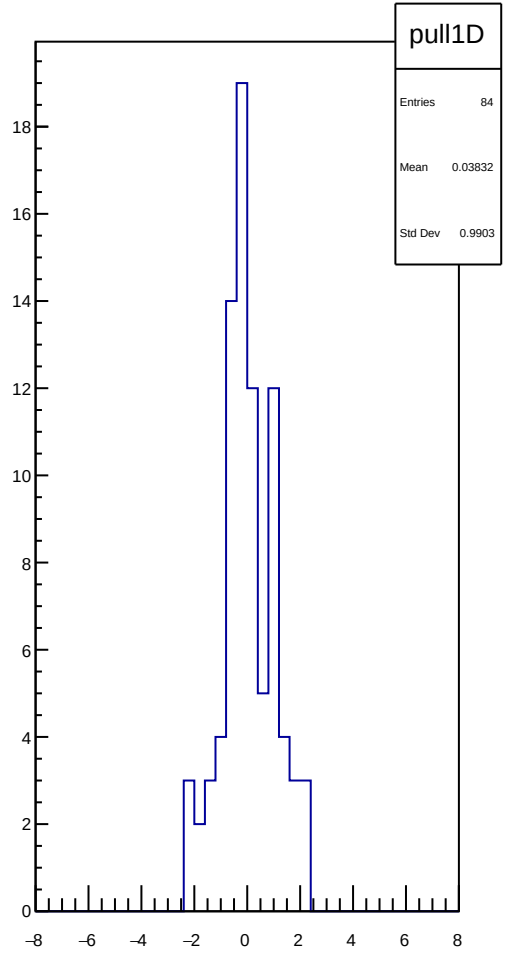

pull1D
Entries 84
Mean 0.01585
Std Dev 1.056

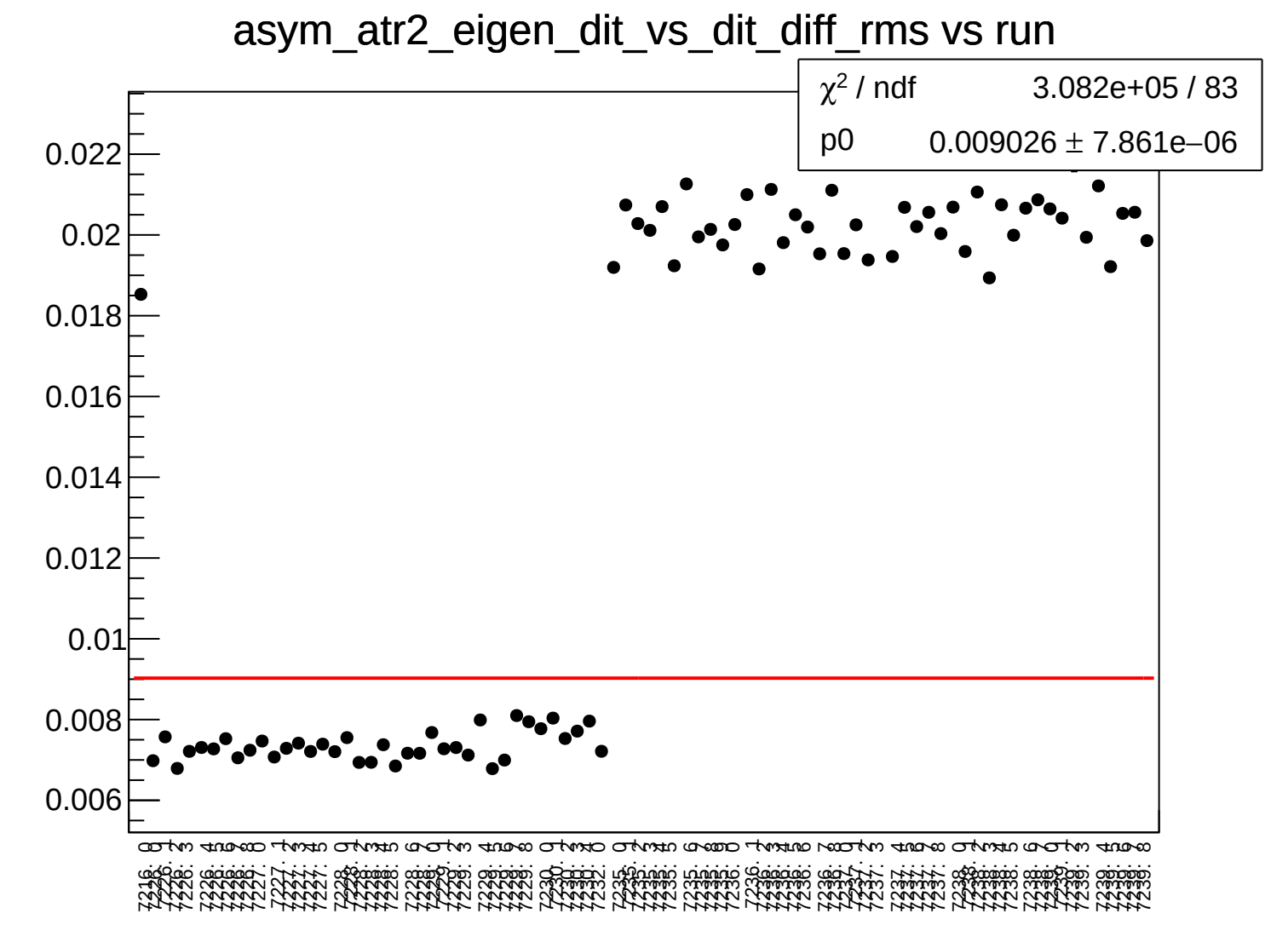

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 2.29e+04 / 83
p0 365.1 ± 0.2883
550
500
450
400
350
300

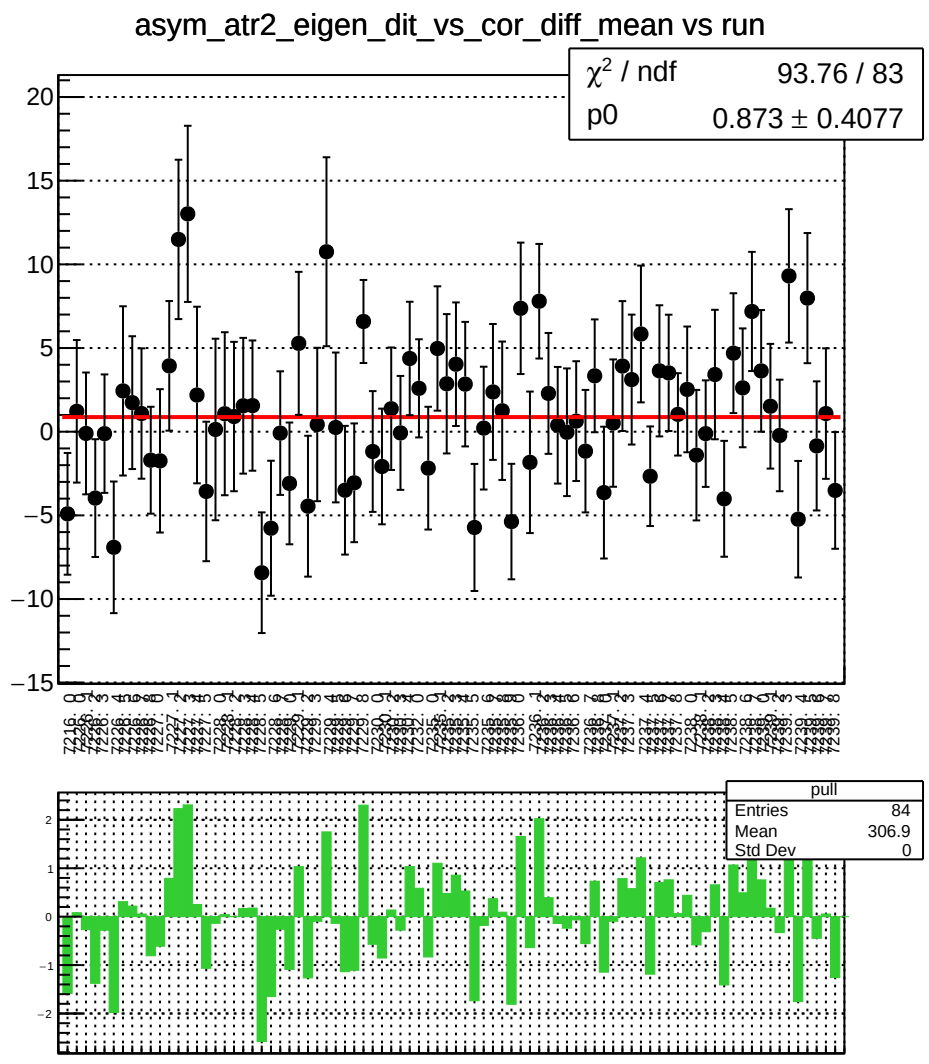

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.75 / 83
p0 0.873 ± 0.4077
pull
Entries 84
Mean 306.9
Std Dev 0
pull1D
Entries 84
Mean 0.01585
Std Dev 1.056

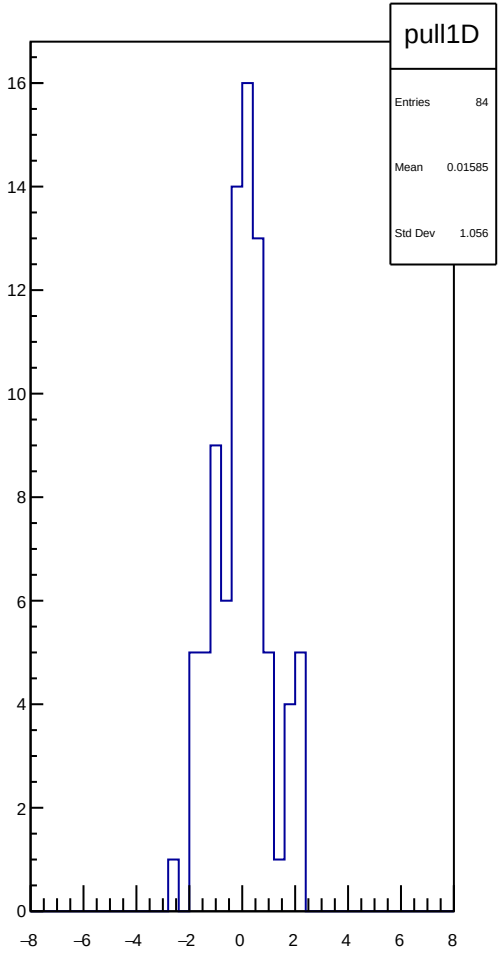

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.29e+04 / 83
p0 365.1 ± 0.2883
550
500
450
400
350
300

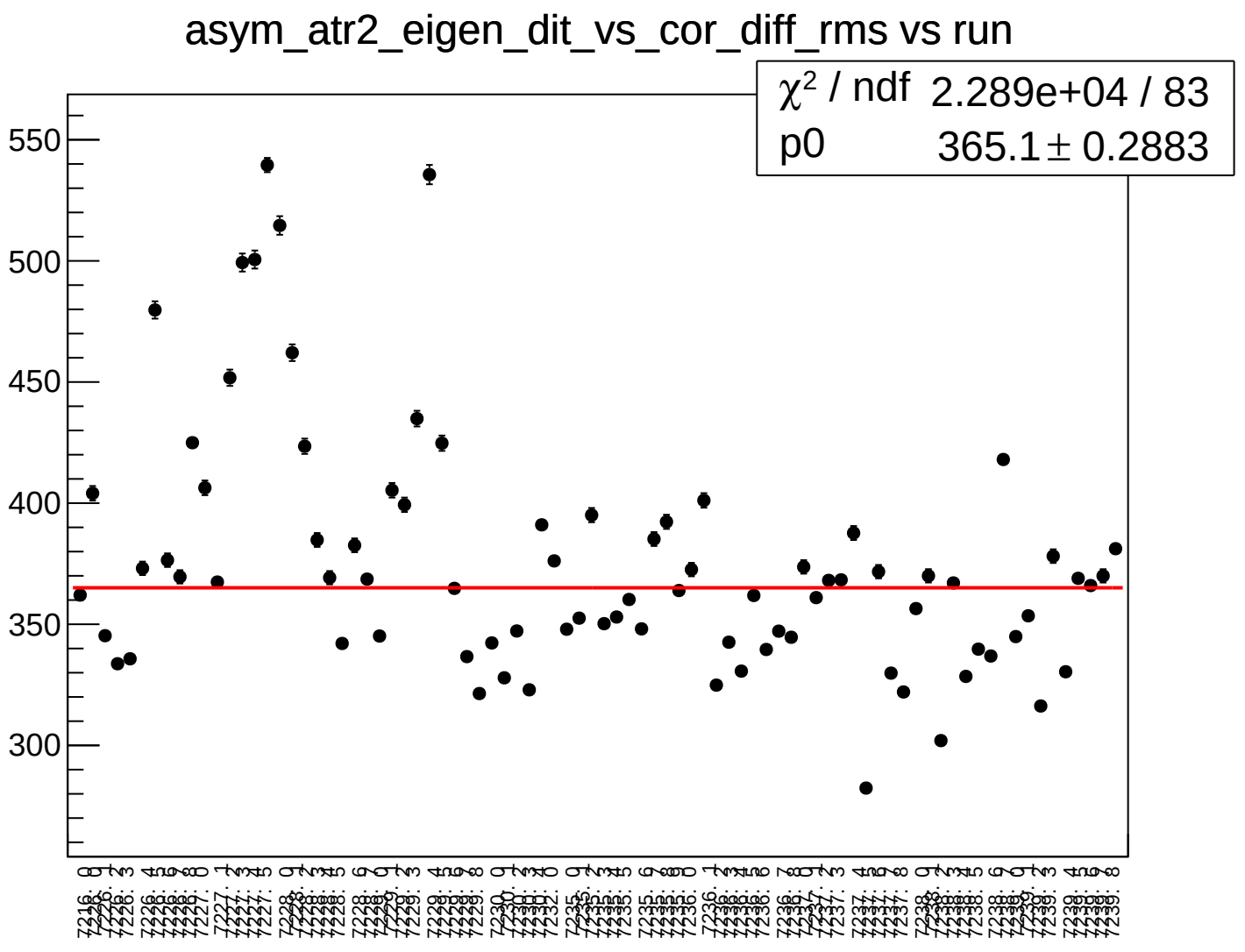

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.51 / 83
p0 −2.581e−06 ± 1.112e−05
pull
Entries 84
Mean 75.74
Std Dev 0

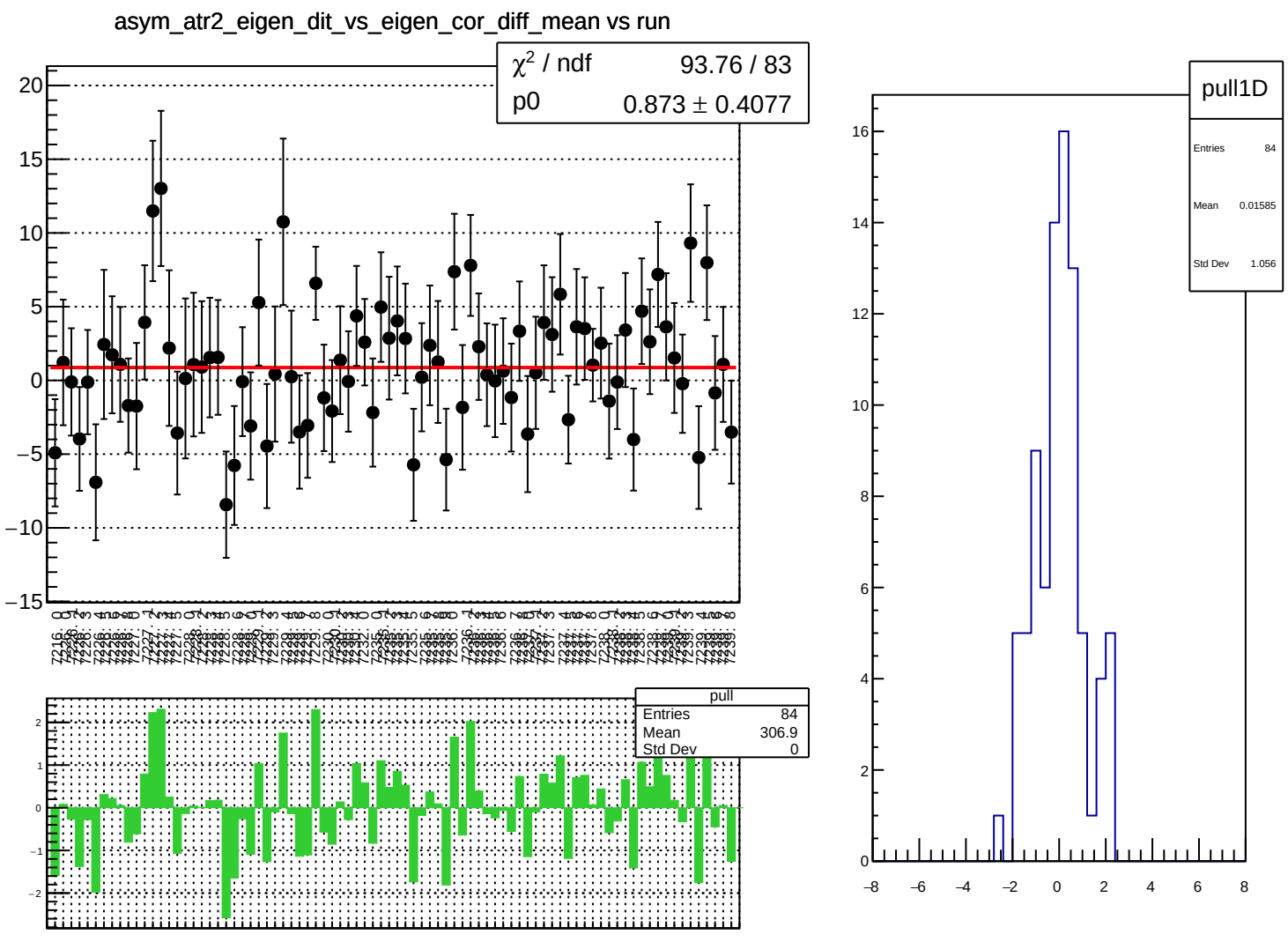

pull1D
Entries 84
Mean 0.03832
Std Dev 0.9903

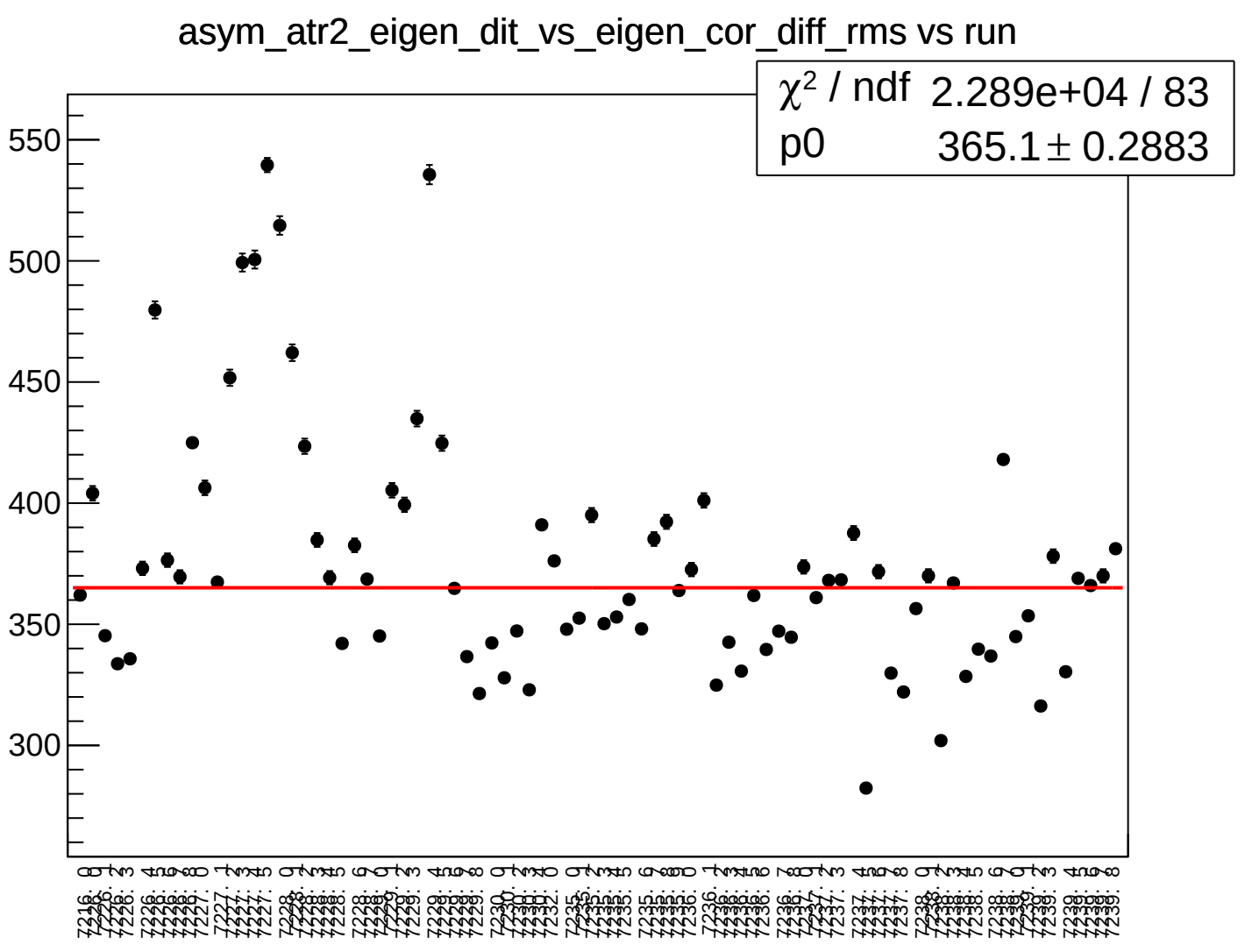

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.082e+05 / 83
p0 0.009026 ± 7.861e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

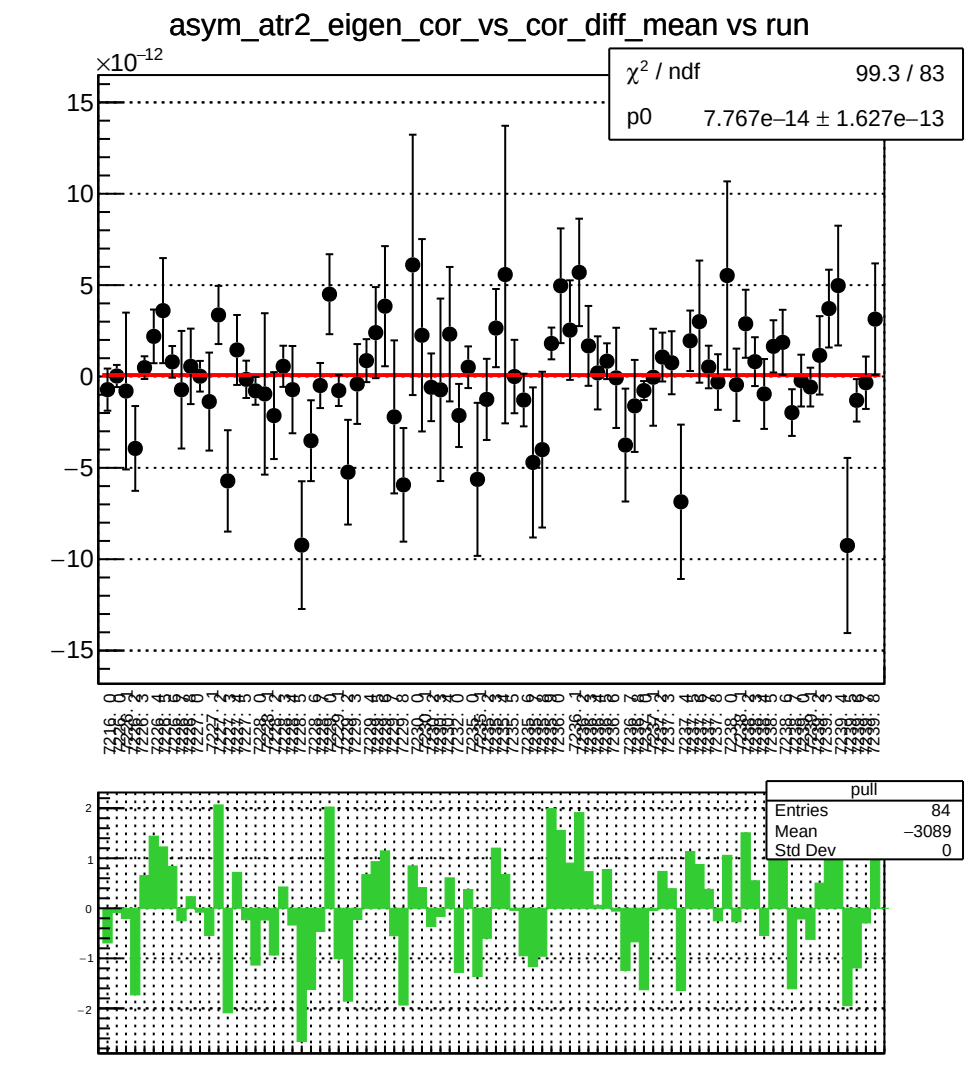

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.76 / 83
p0 0.873 ± 0.4077
pull
Entries 84
Mean 306.9
Std Dev 0

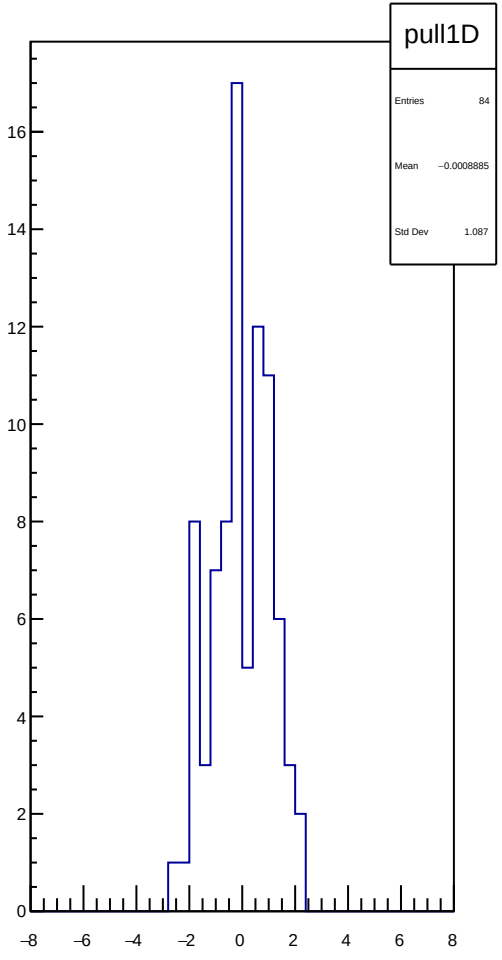

pull1D
Entries 84
Mean 0.01585
Std Dev 1.056

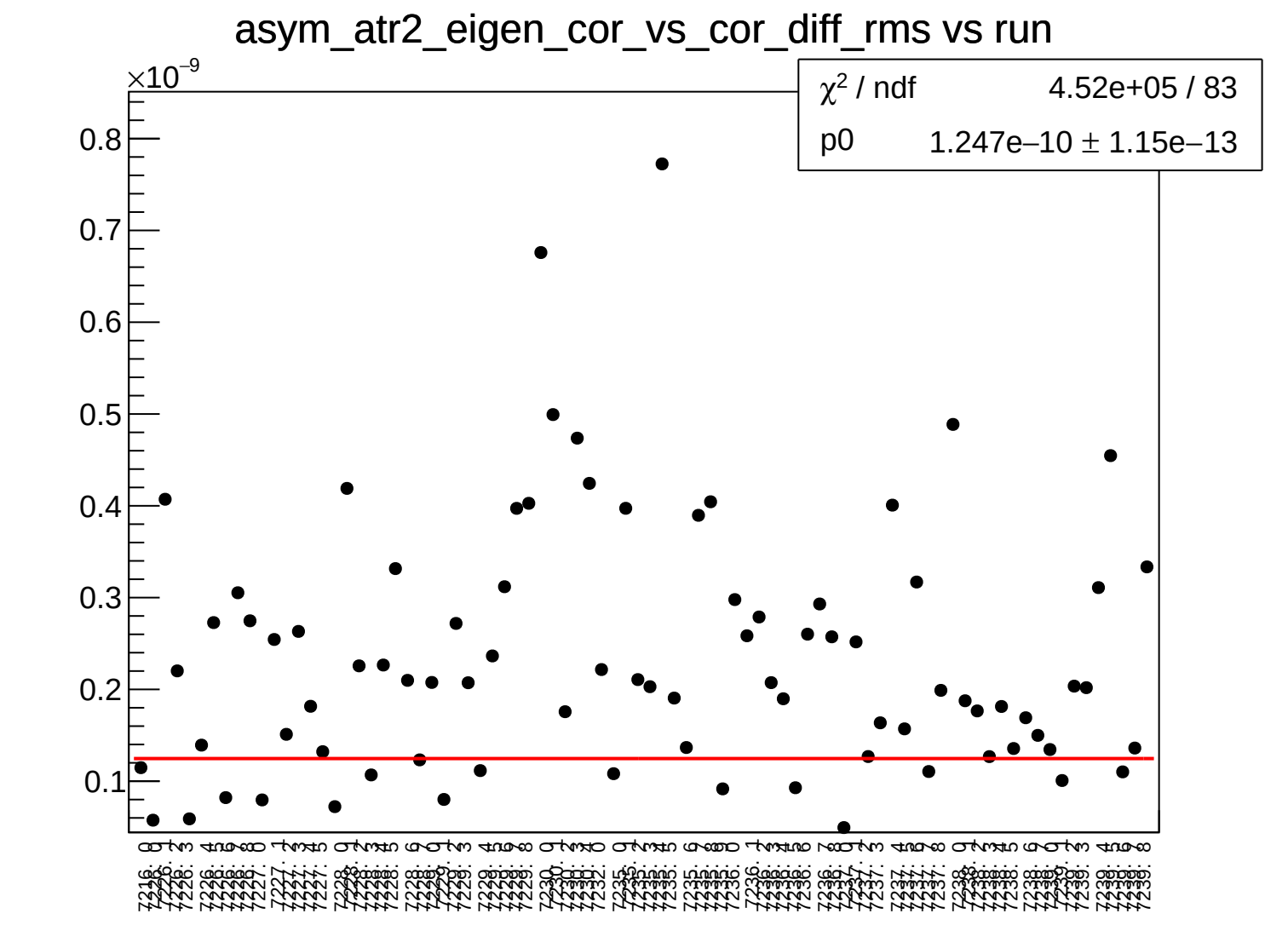

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.289e+04 / 83
p0 365.1 ± 0.2883
550
500
450
400
350
300

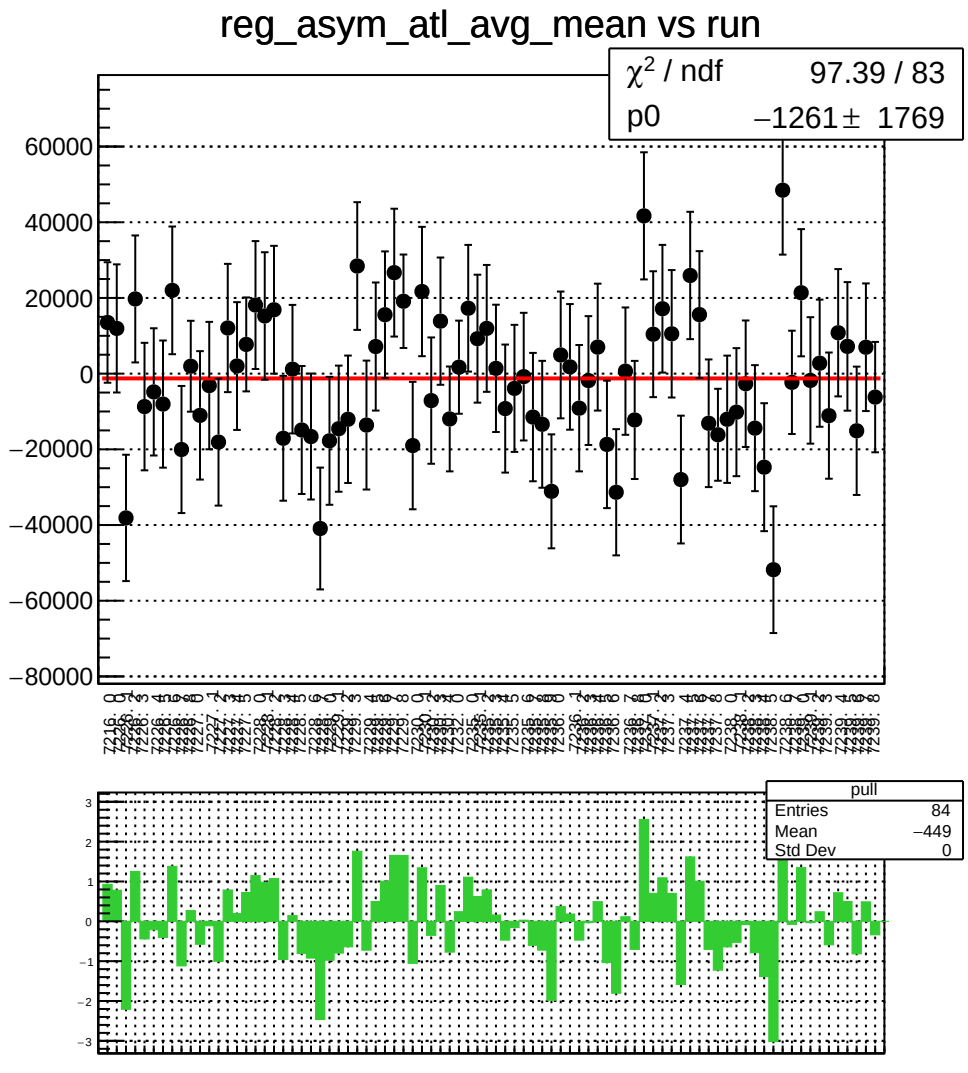

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.76 / 83
p0 0.873 ± 0.4077
pull
Entries 84
Mean 306.9
Std Dev 0
pull1D
Entries 84
Mean 0.01585
Std Dev 1.056

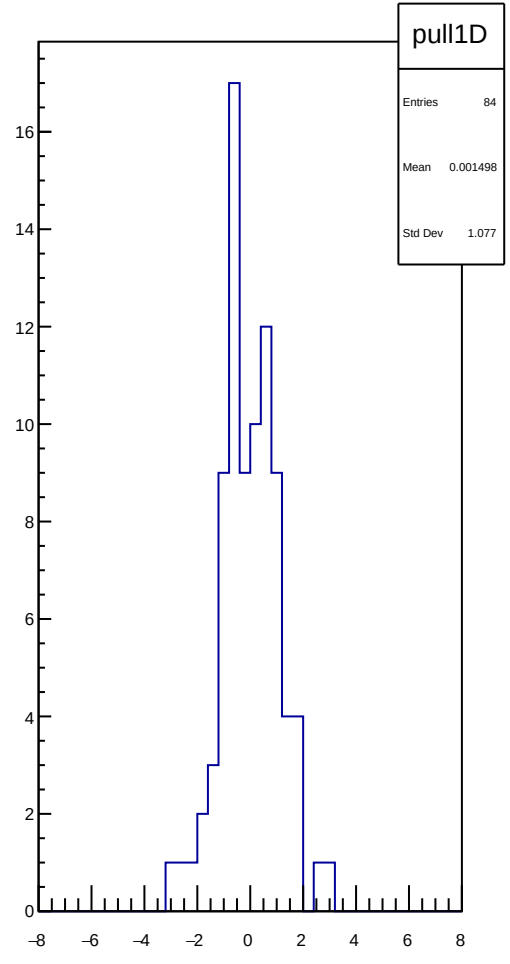

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.289e+04 / 83
p0 365.1 ± 0.2883
550
500
450
400
350
300

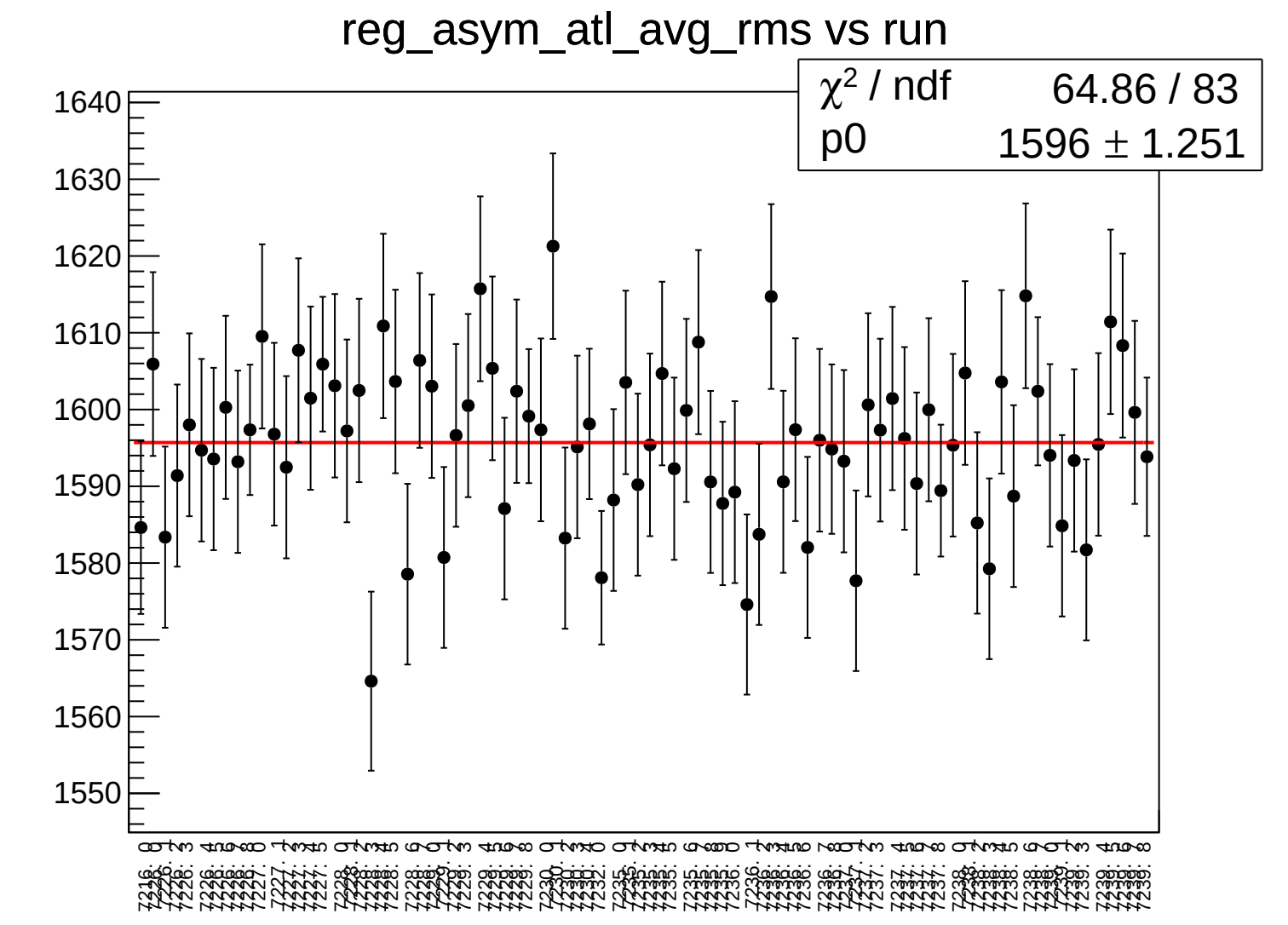

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.3 / 83
p0 7.767e−14 ± 1.627e−13
pull
Entries 84
Mean −3089
Std Dev 0

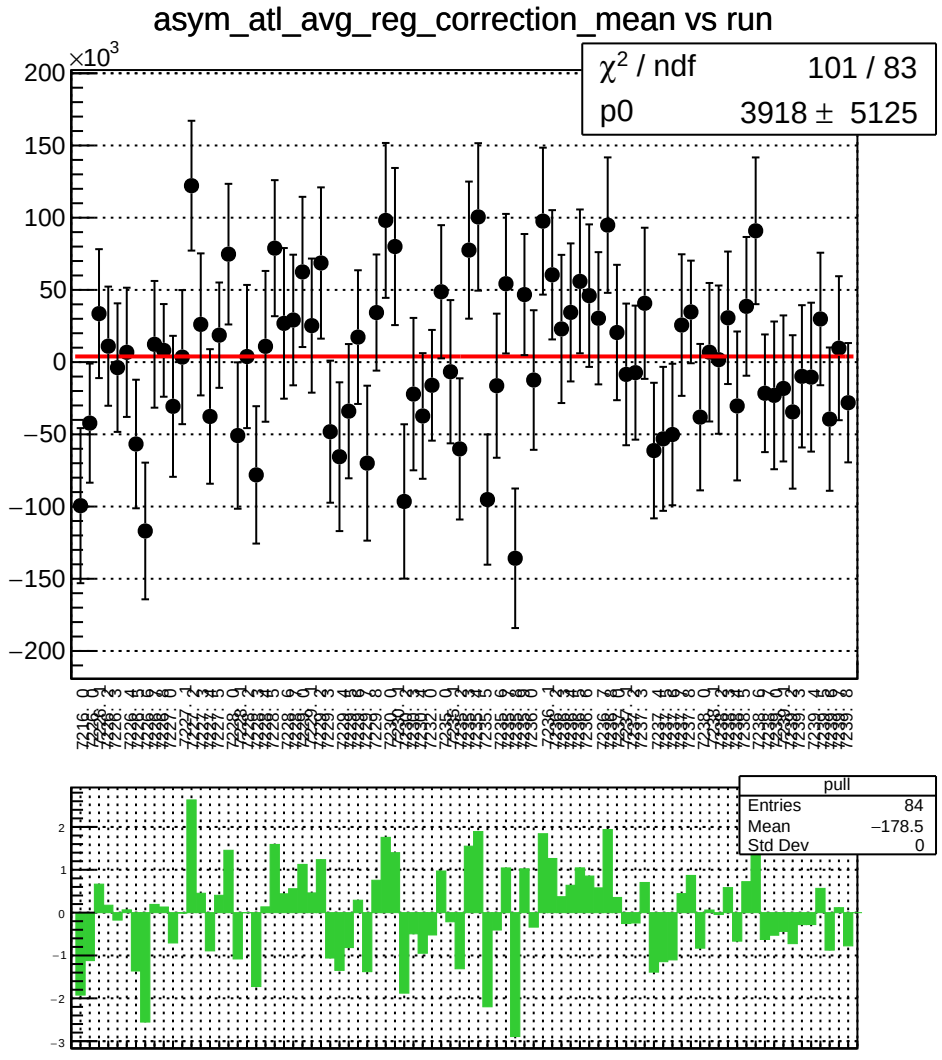

pull1D
Entries 84
Mean −0.0008885
Std Dev 1.087

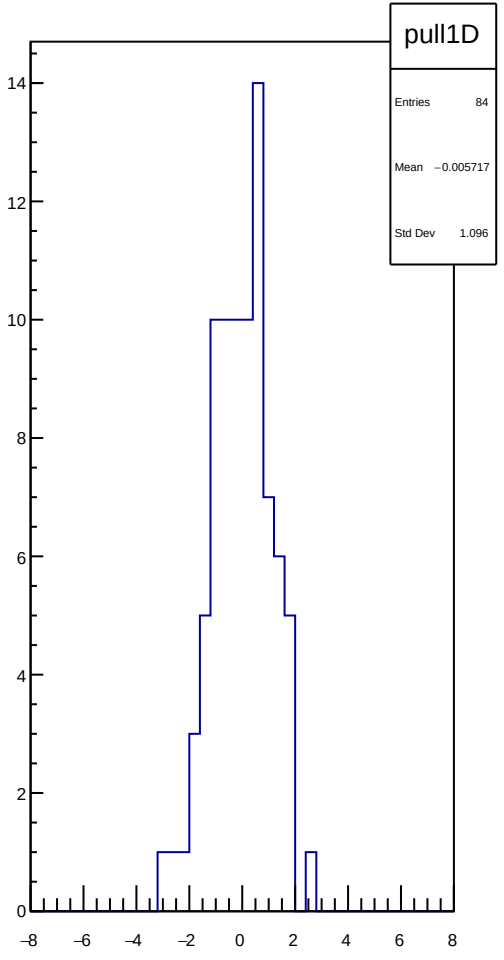

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.52e+05 / 83
p0 1.247e−10 ± 1.15e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

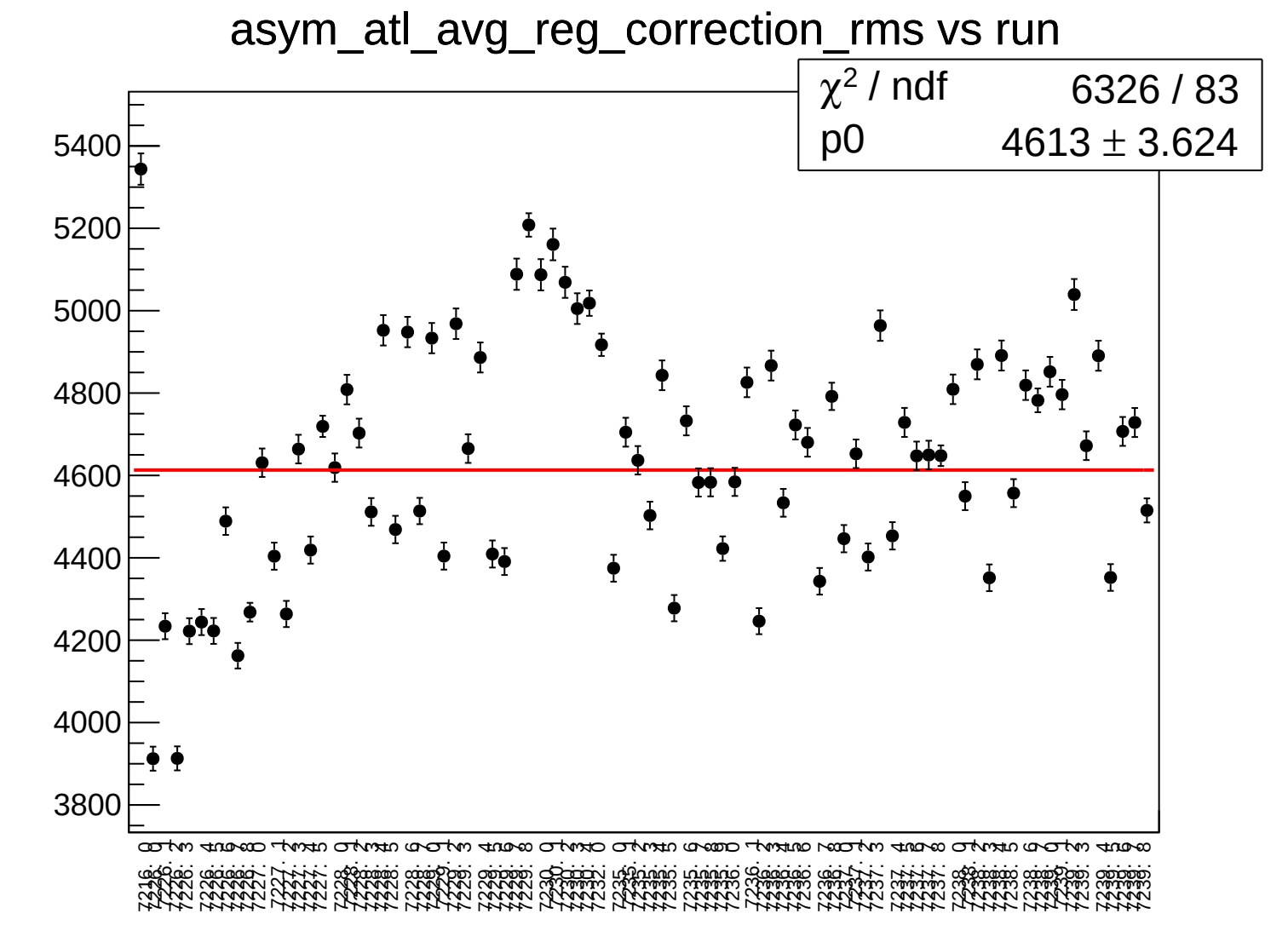

reg_asym_atl_avg_mean vs run
χ² / ndf 97.39 / 83
p0 −1261 ± 1769
pull
Entries 84
Mean −449
Std Dev 0

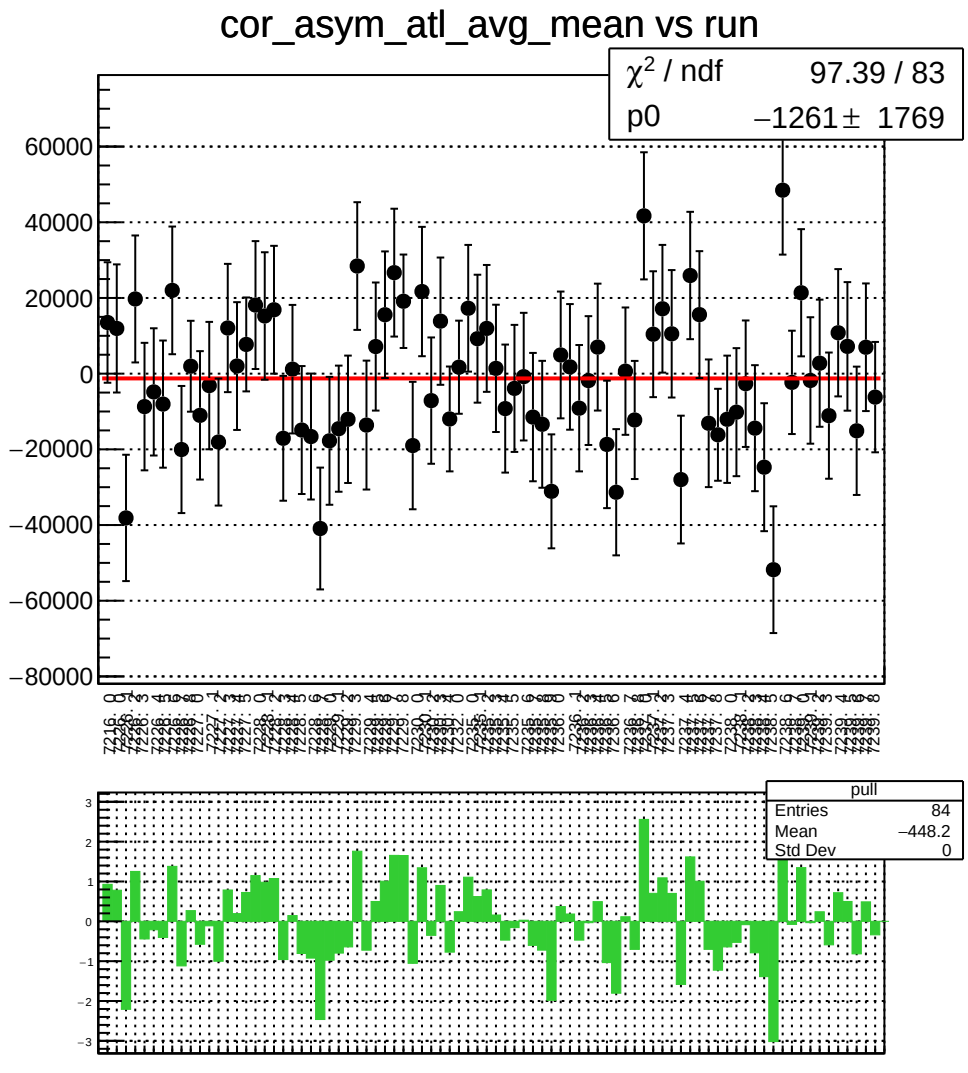

pull1D
Entries 84
Mean 0.001498
Std Dev 1.077

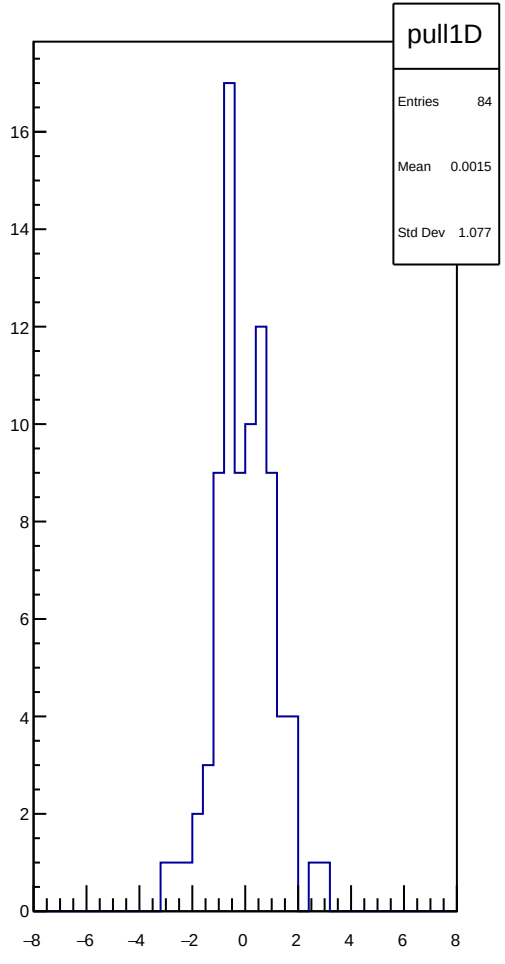

reg_asym_atl_avg_rms vs run
χ² / ndf 64.86 / 83
p0 1596 ± 1.251
1640
1630
1620
1610
1600
1590
1580
1570
1560
1550

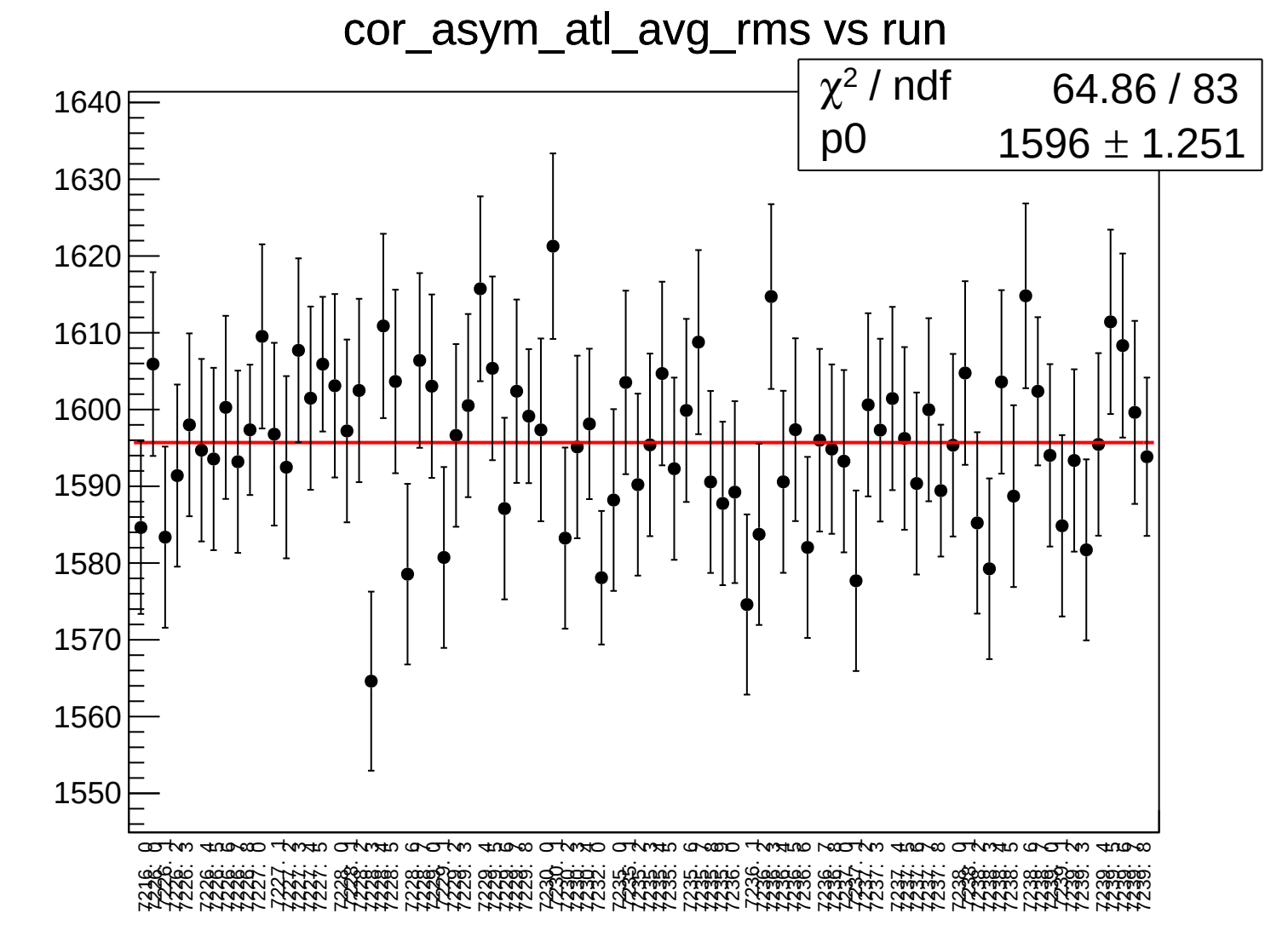

asym_atl_avg_reg_correction_mean vs run
χ² / ndf 101 / 83
p0 3918 ± 5125
pull
Entries 84
Mean −178.5
Std Dev 0

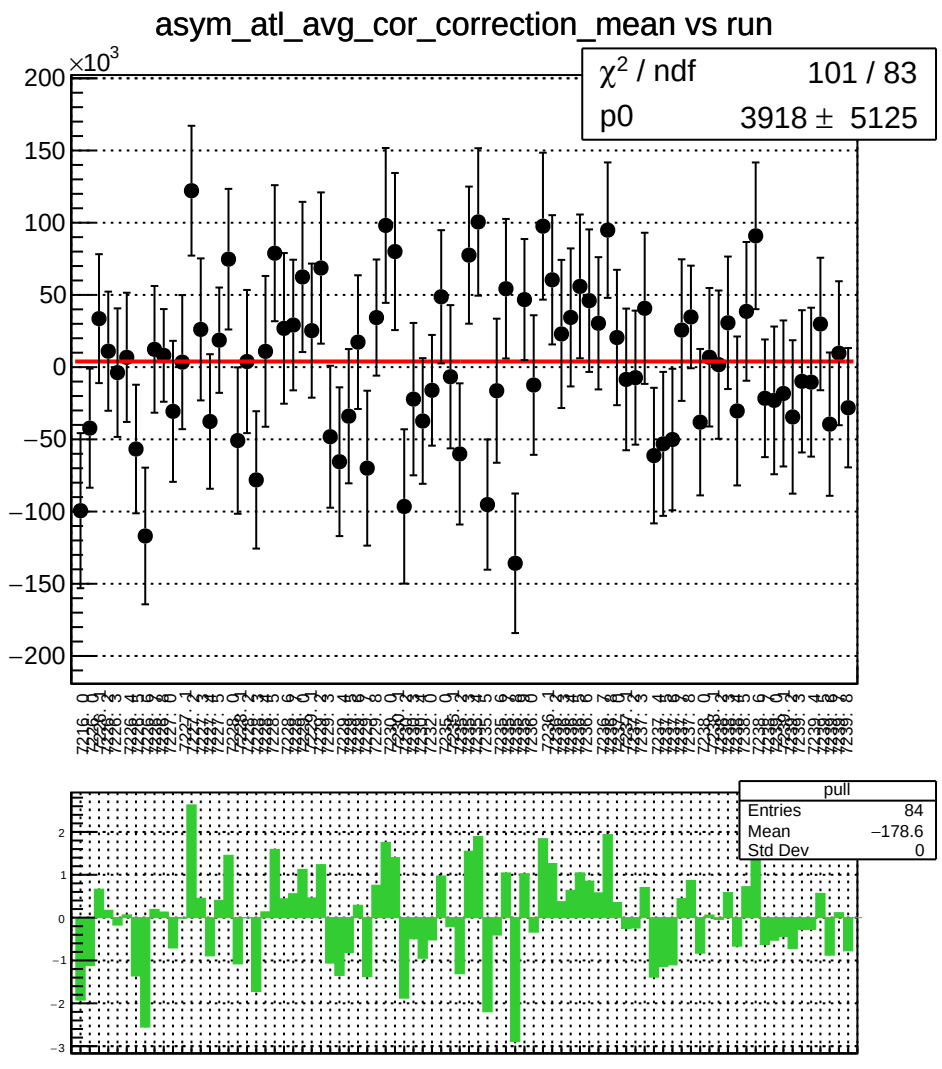

pull1D
Entries 84
Mean −0.005717
Std Dev 1.096

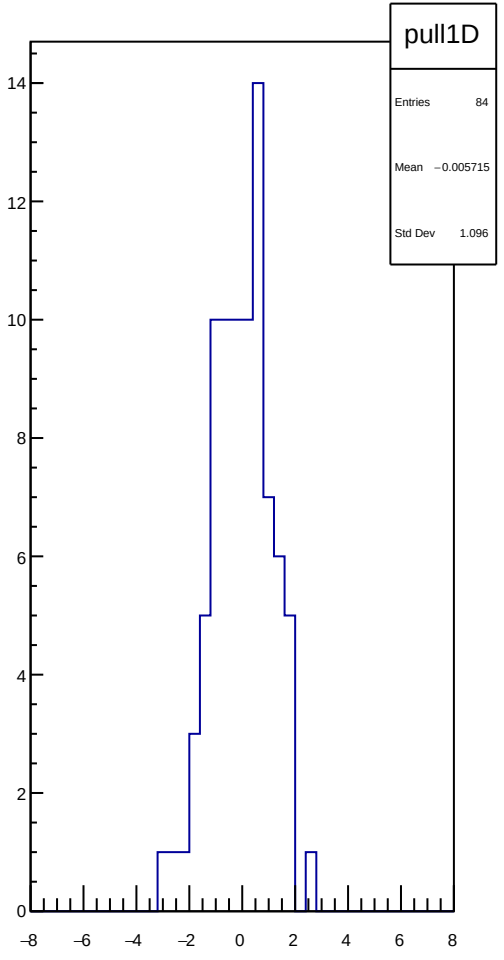

asym_atl_avg_reg_correction_rms vs run
χ² / ndf 6326 / 83
p0 4613 ± 3.624
5400
5200
5000
4800
4600
4400
4200
4000
3800

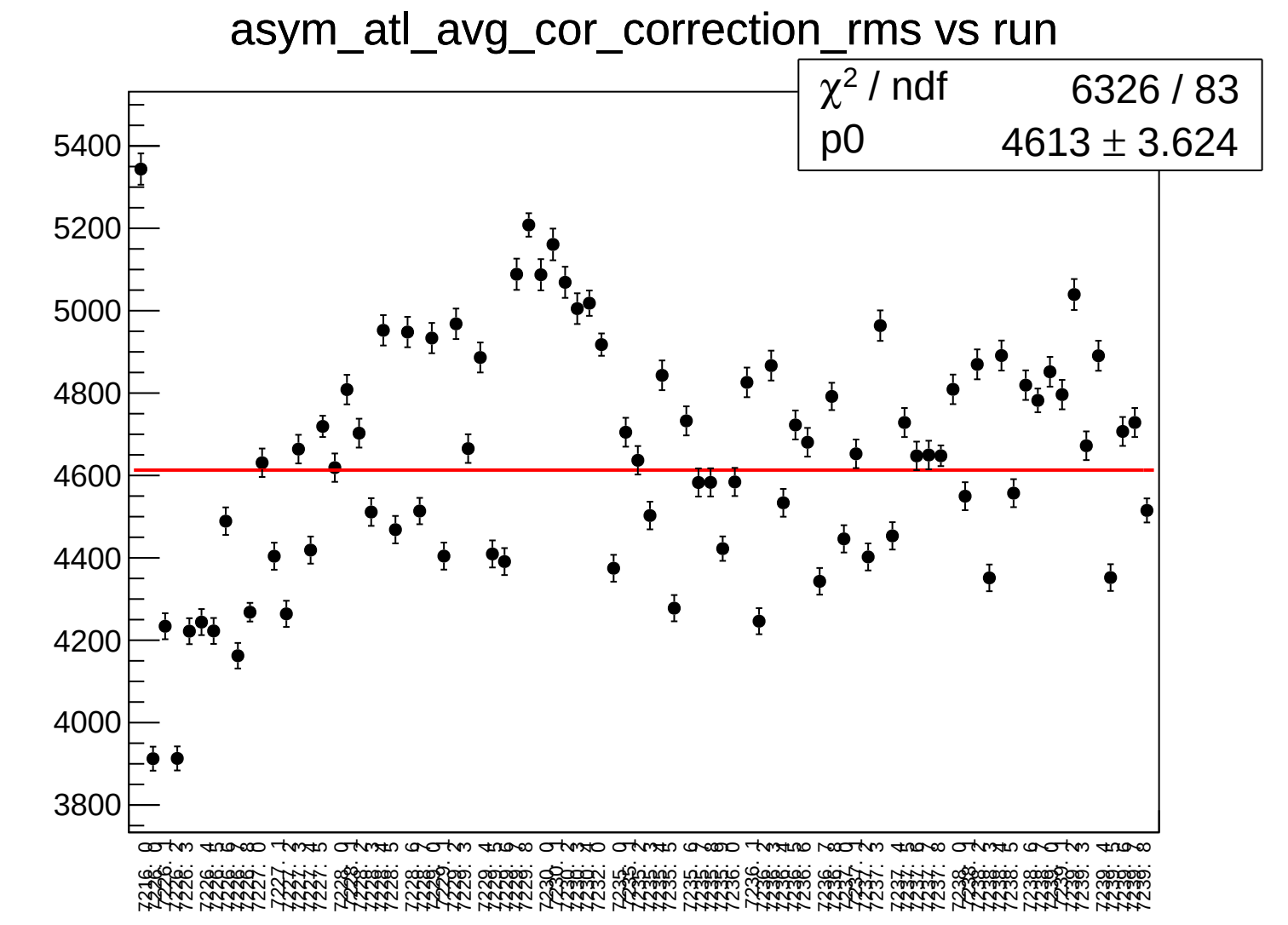

cor_asym_atl_avg_mean vs run
χ² / ndf 97.39 / 83
p0 −1261 ± 1769
pull
Entries 84
Mean −448.2
Std Dev 0

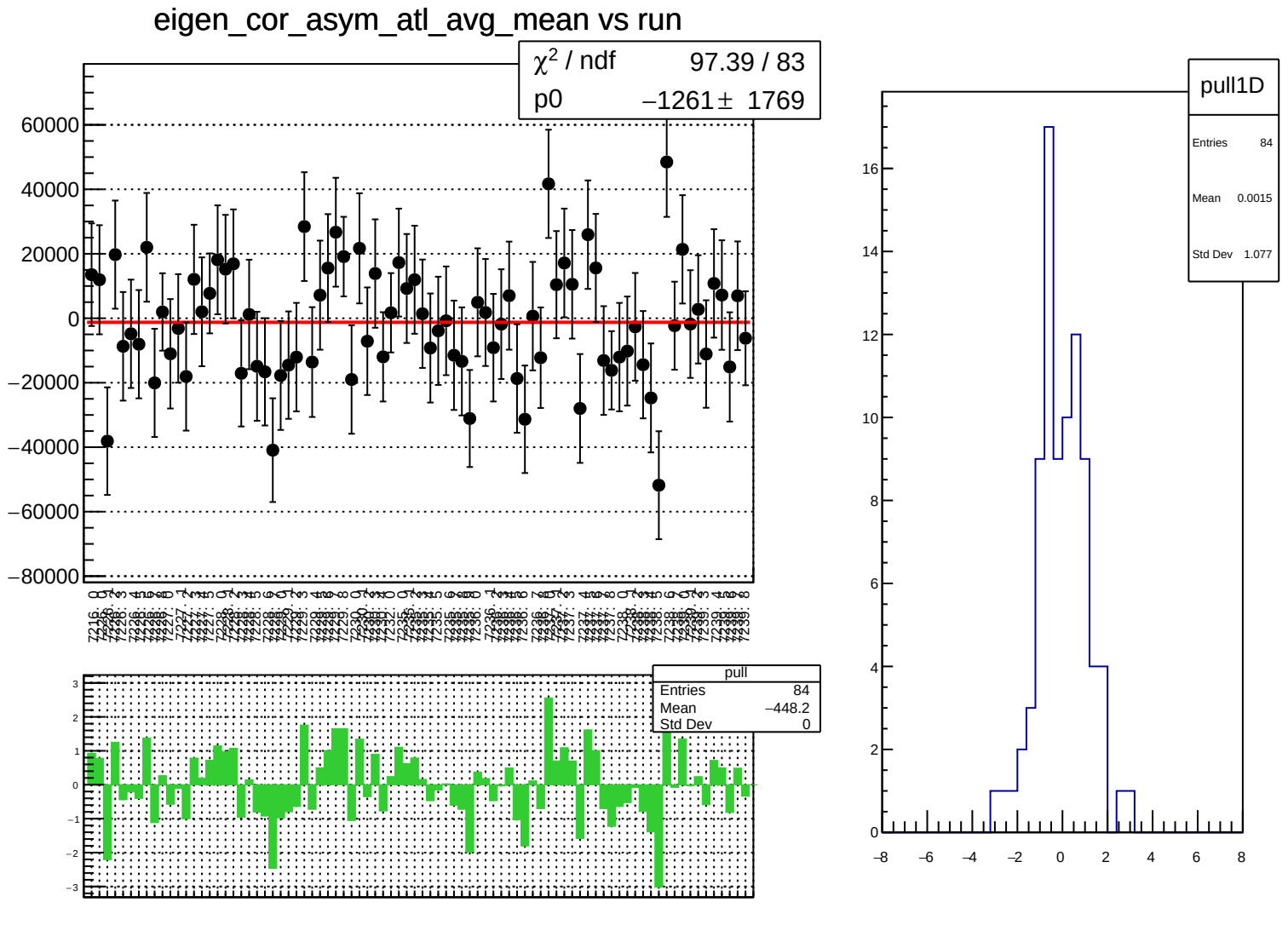

pull1D
Entries 84
Mean 0.0015
Std Dev 1.077

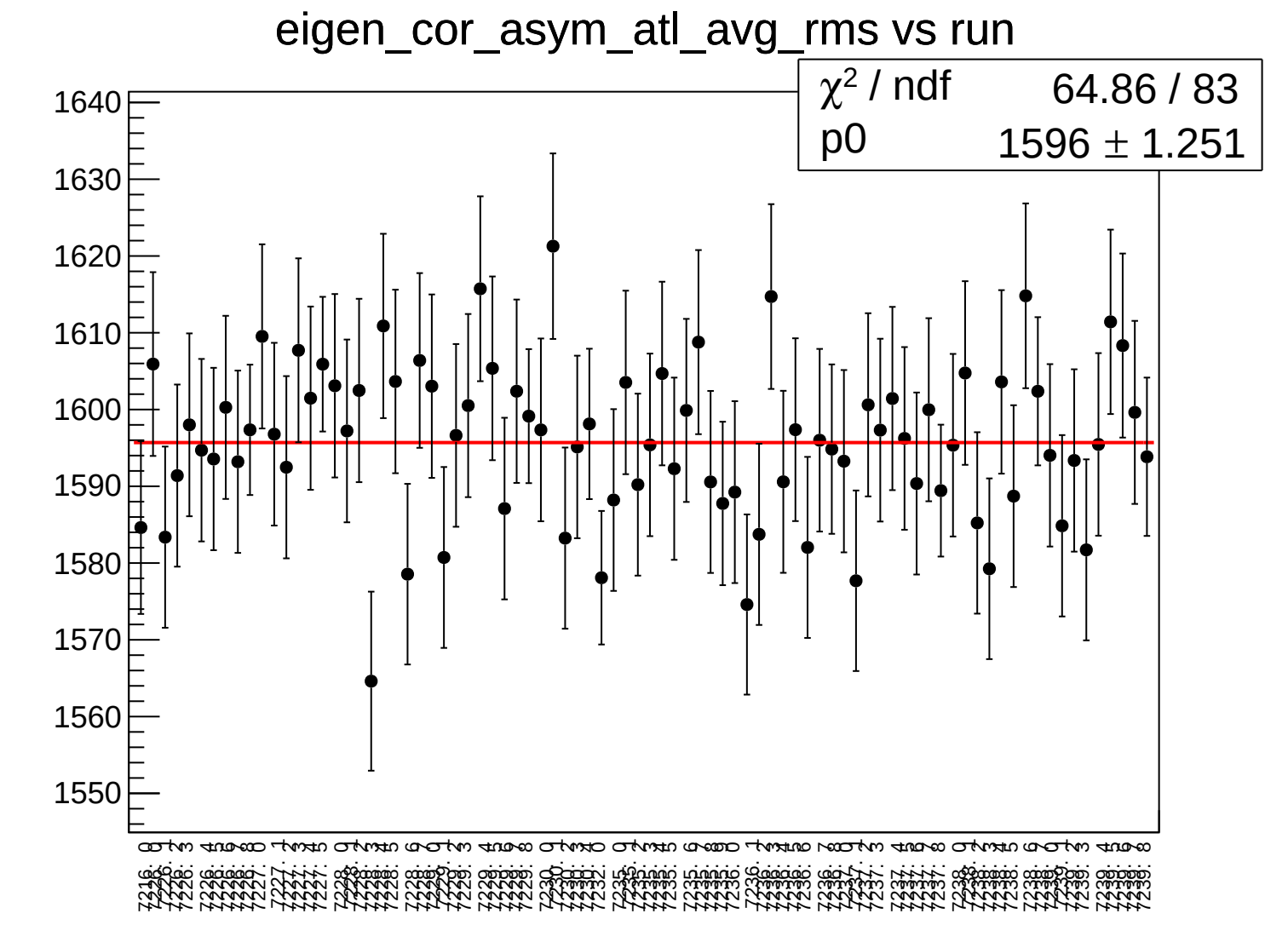

cor_asym_atl_avg_rms vs run
χ² / ndf 64.86 / 83
p0 1596 ± 1.251
1640
1630
1620
1610
1600
1590
1580
1570
1560
1550

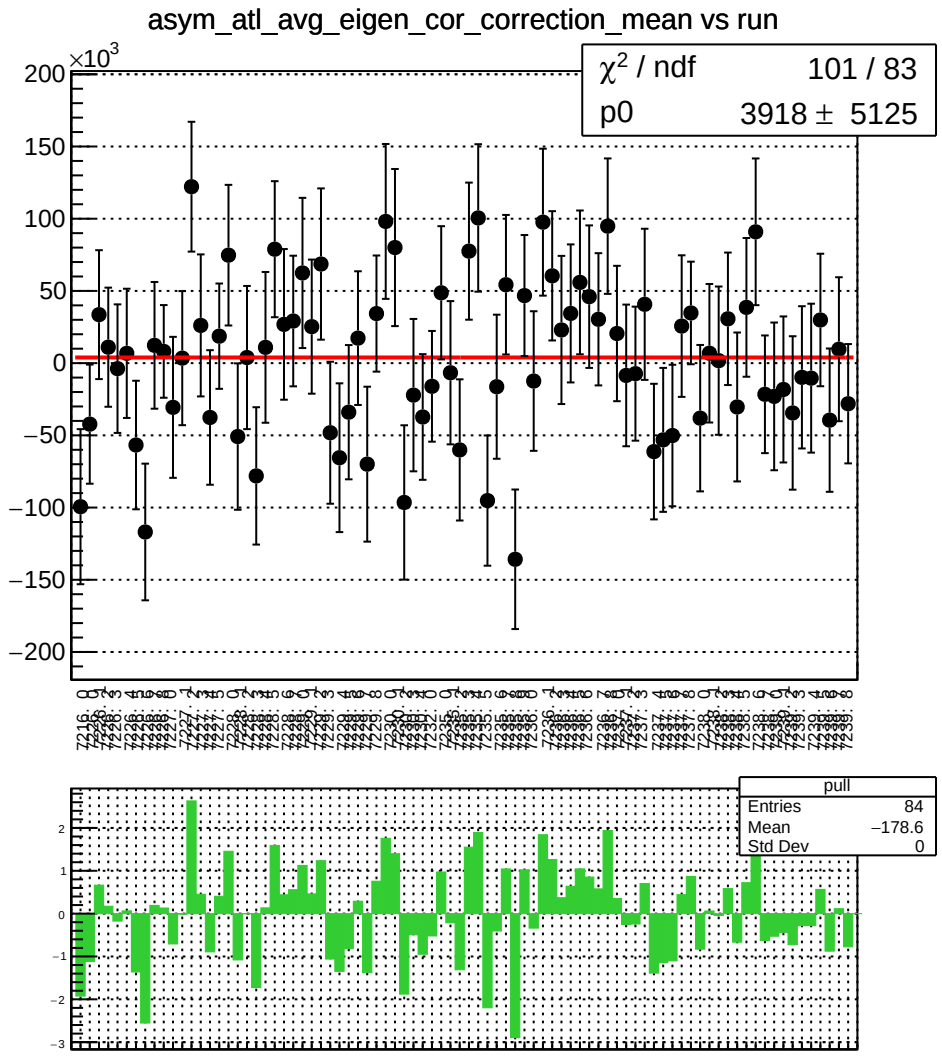

asym_atl_avg_cor_correction_mean vs run
χ² / ndf 101 / 83
p0 3918 ± 5125
×10³
pull
Entries 84
Mean −178.6
Std Dev 0

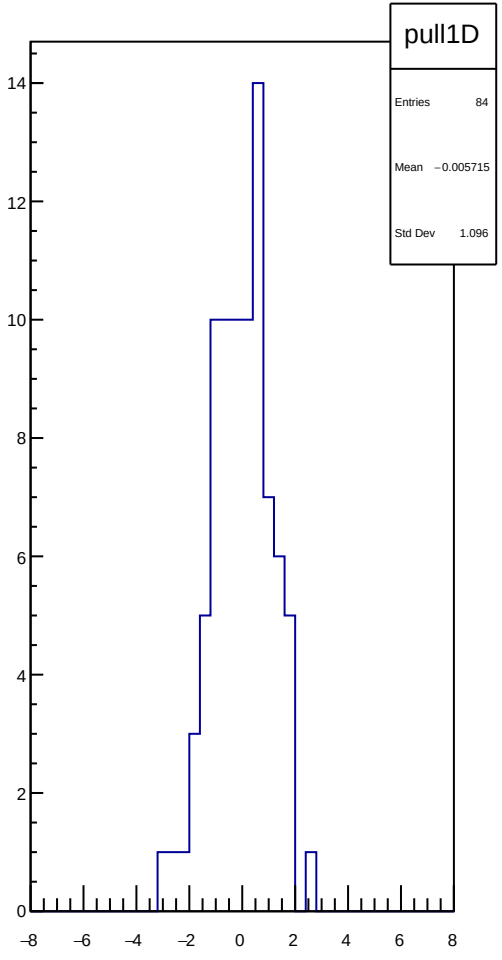

pull1D
Entries 84
Mean −0.005715
Std Dev 1.096

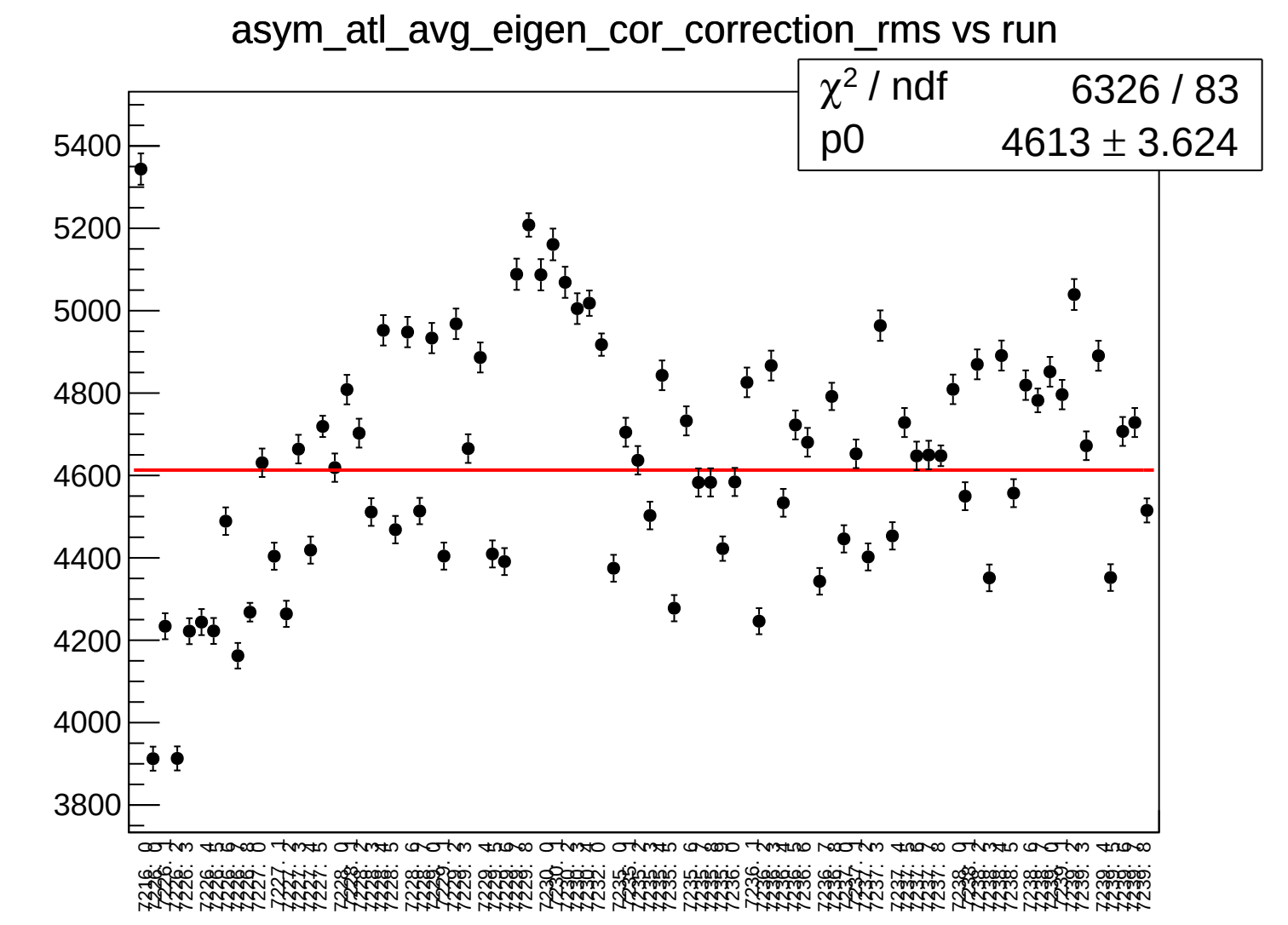

asym_atl_avg_cor_correction_rms vs run
χ² / ndf 6326 / 83
p0 4613 ± 3.624
5400
5200
5000
4800
4600
4400
4200
4000
3800

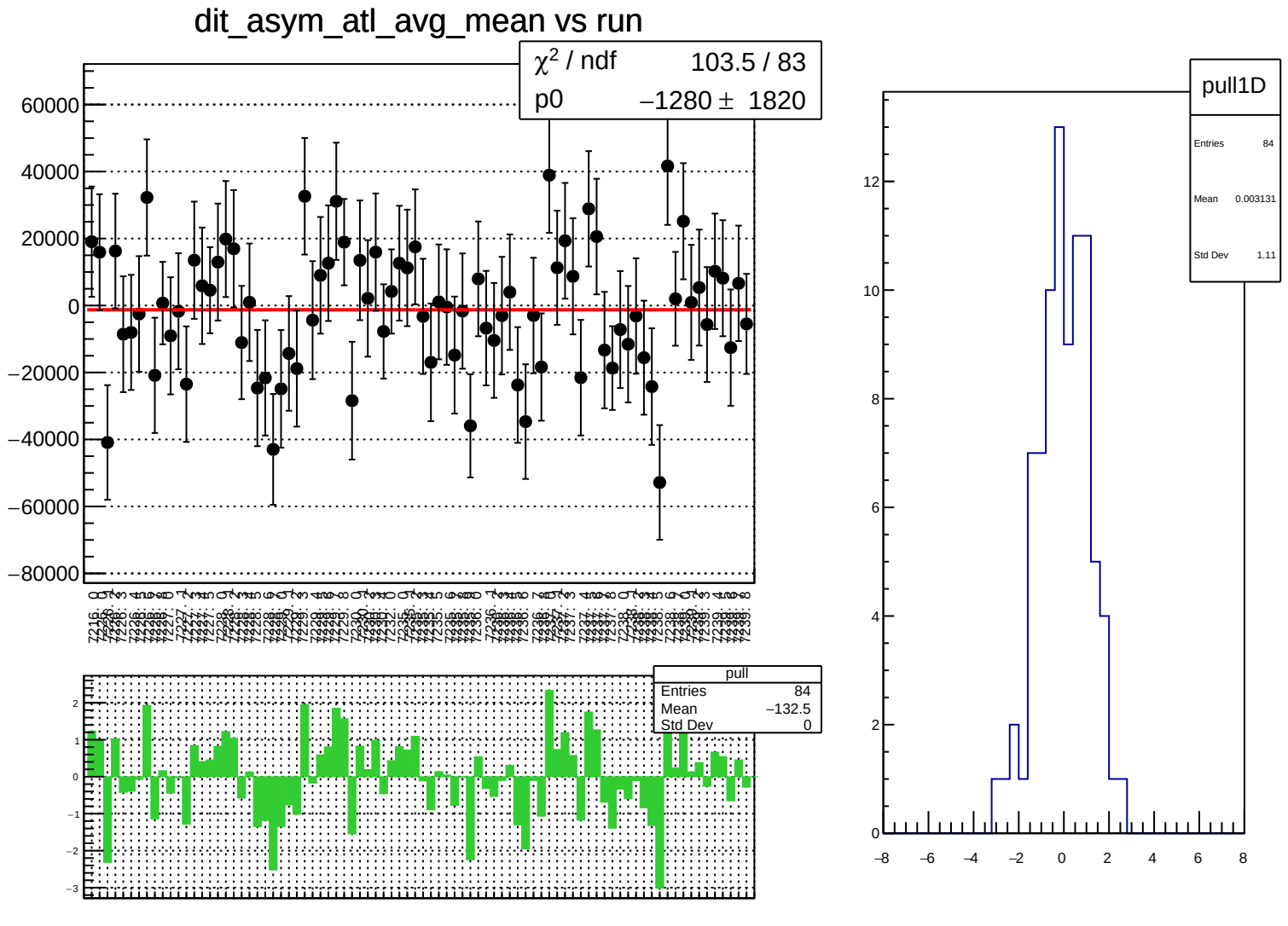

eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 97.39 / 83
p0 −1261 ± 1769
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean −448.2
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean 0.0015
Std Dev 1.077
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

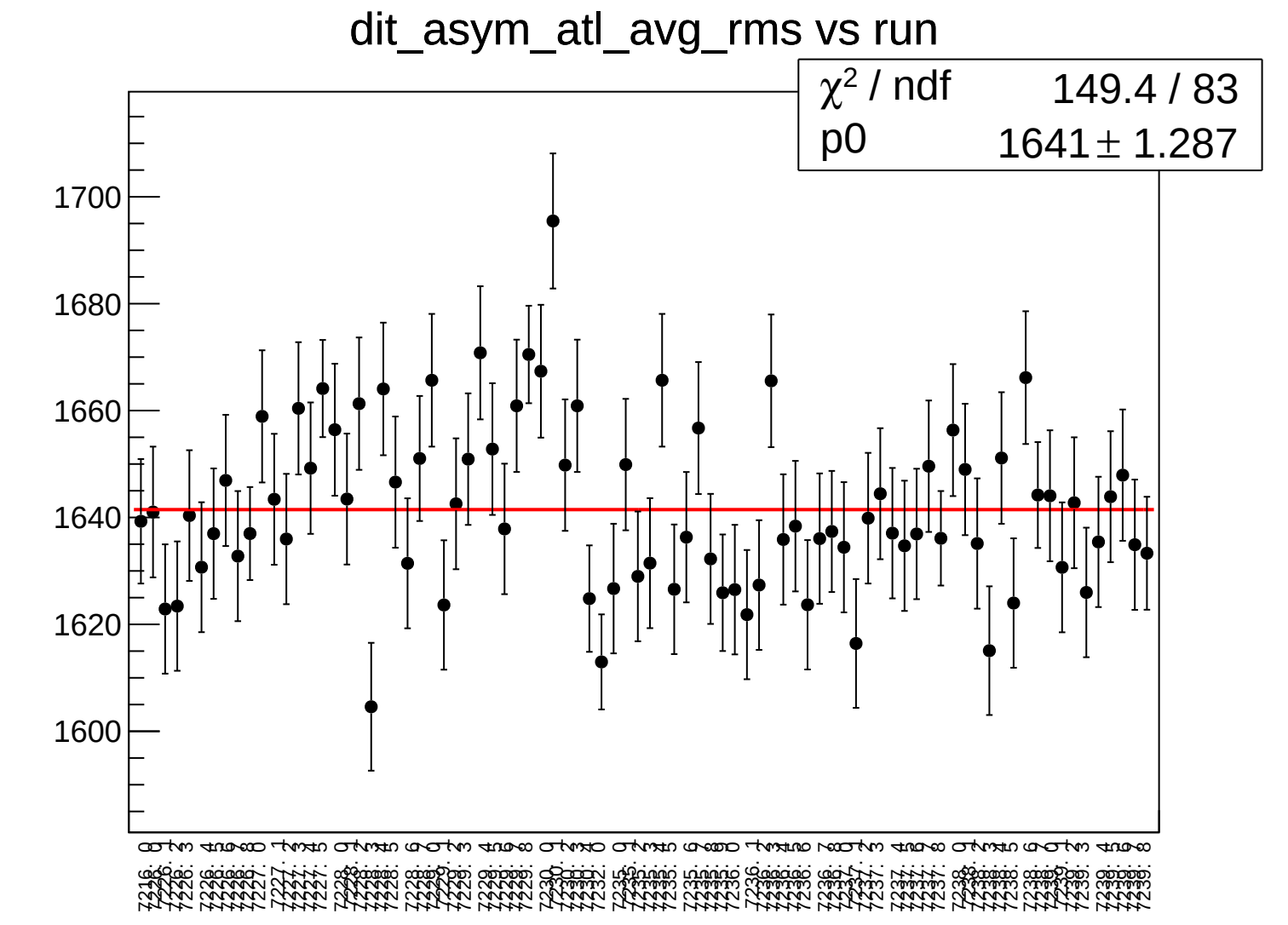

eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 64.86 / 83
p0 1596 ± 1.251
1640
1630
1620
1610
1600
1590
1580
1570
1560
1550

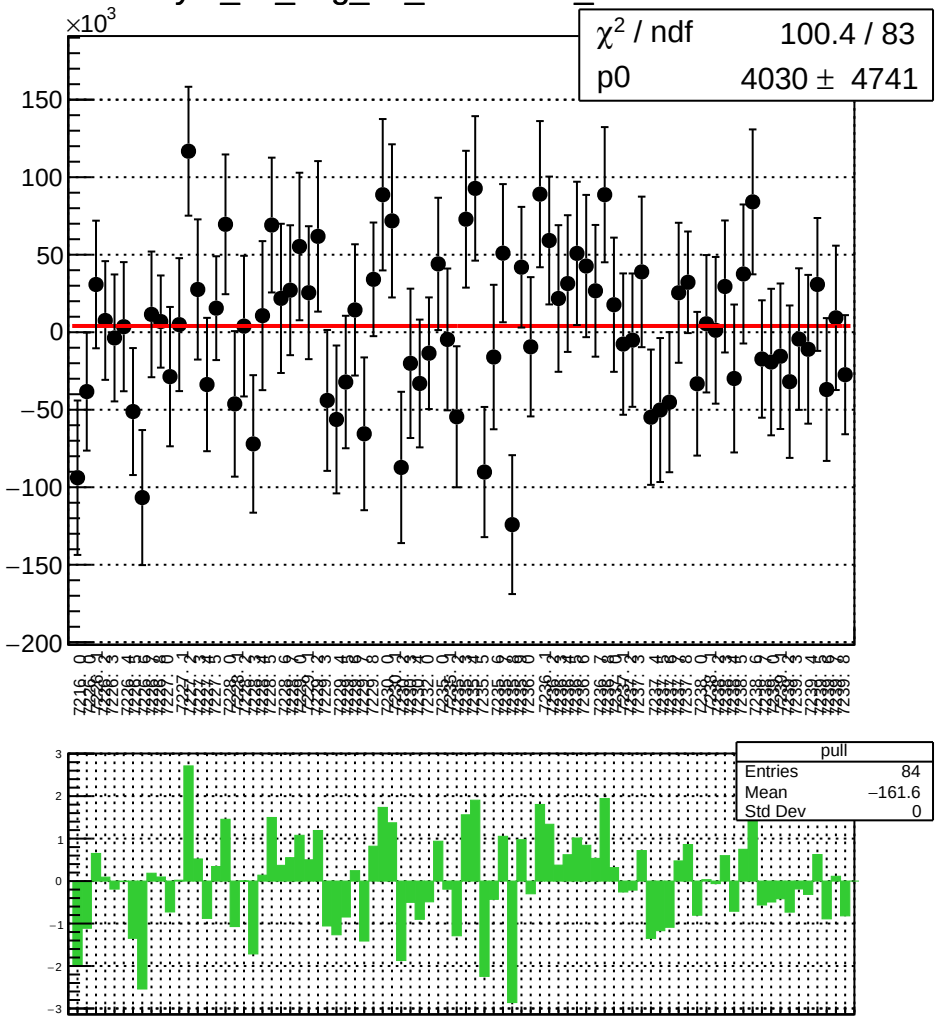

asym_atl_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 101 / 83
p0 3918 ± 5125
pull
Entries 84
Mean −178.6
Std Dev 0

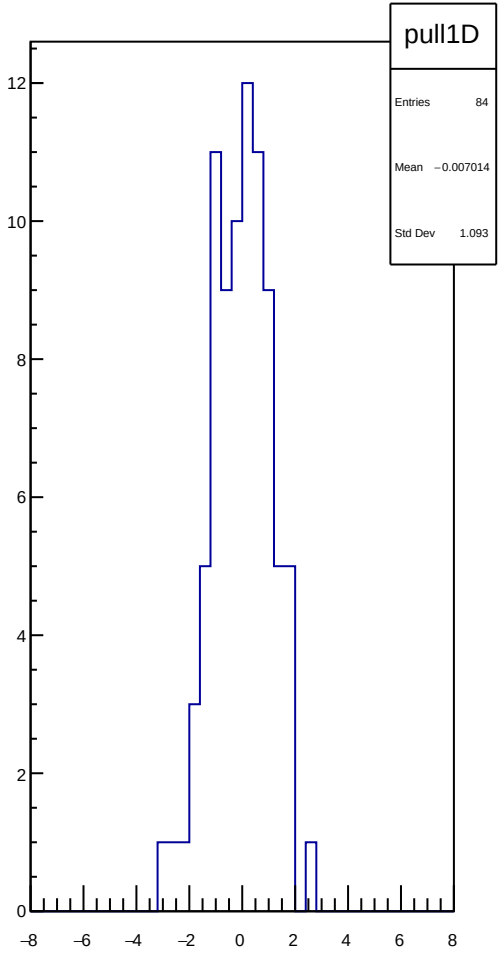

pull1D
Entries 84
Mean −0.005715
Std Dev 1.096

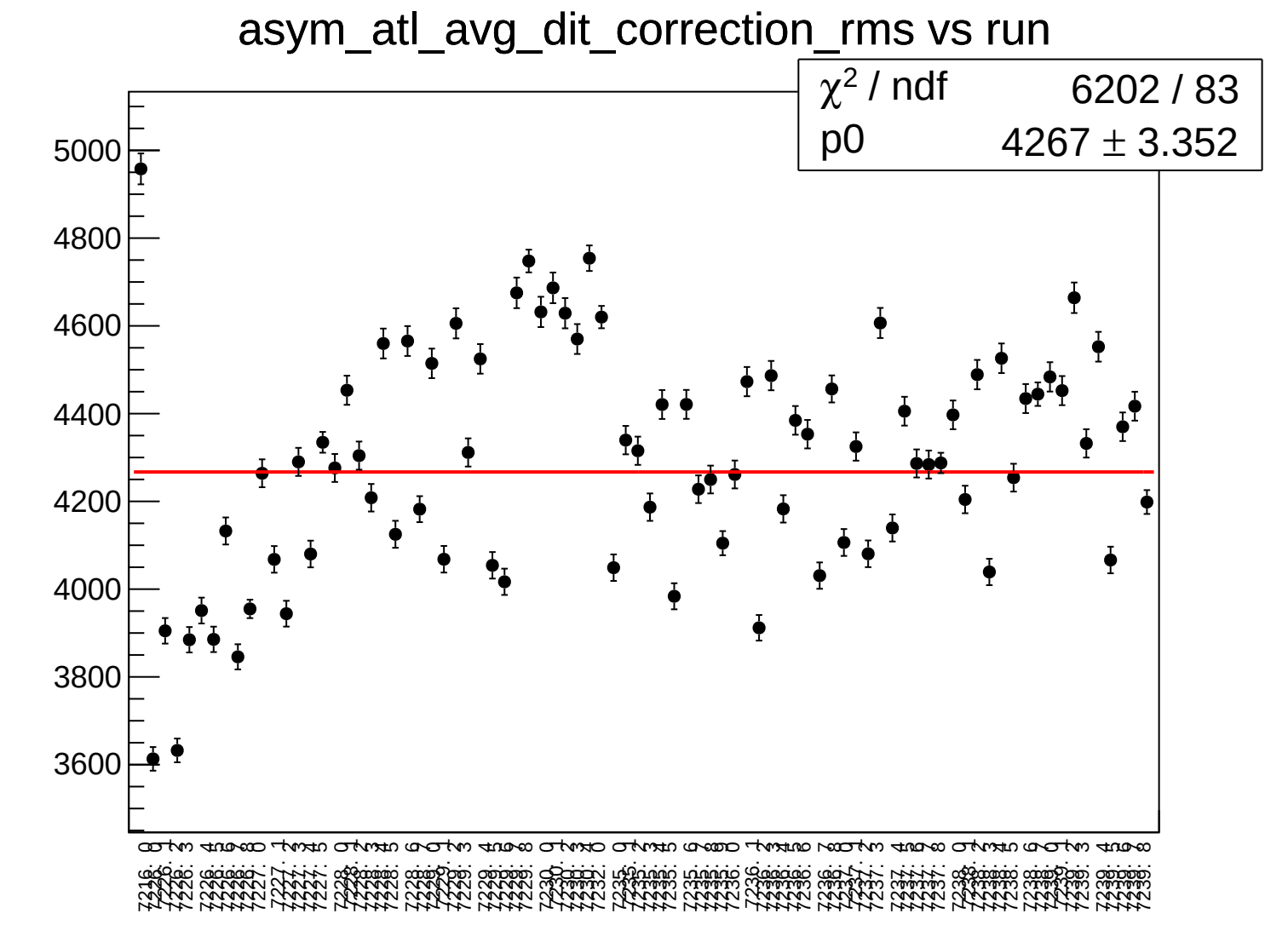

asym_atl_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 6326 / 83
p0 4613 ± 3.624
5400
5200
5000
4800
4600
4400
4200
4000
3800

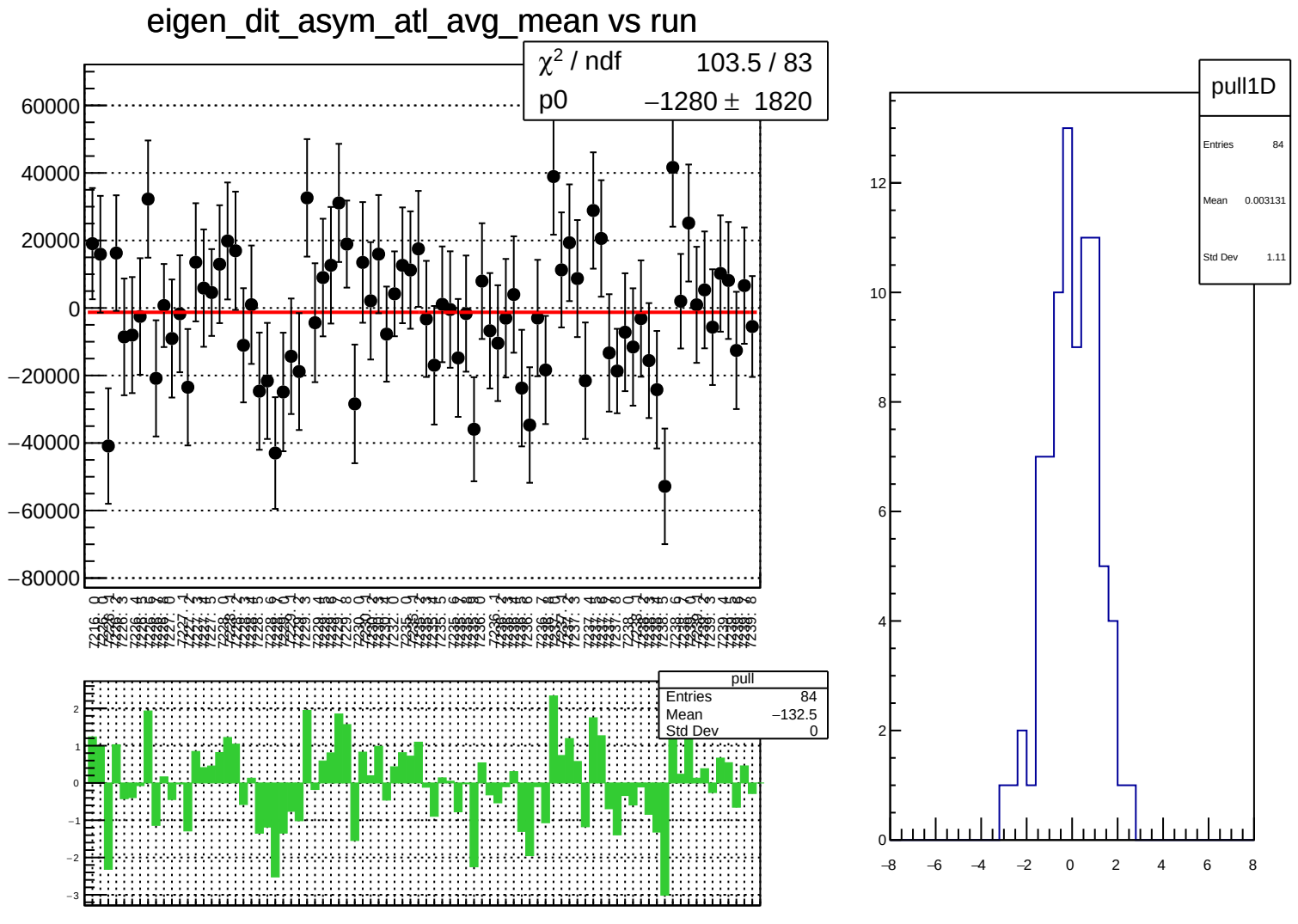

dit_asym_atl_avg_mean vs run
χ² / ndf 103.5 / 83
p0 −1280 ± 1820
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean −132.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean 0.003131
Std Dev 1.11
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

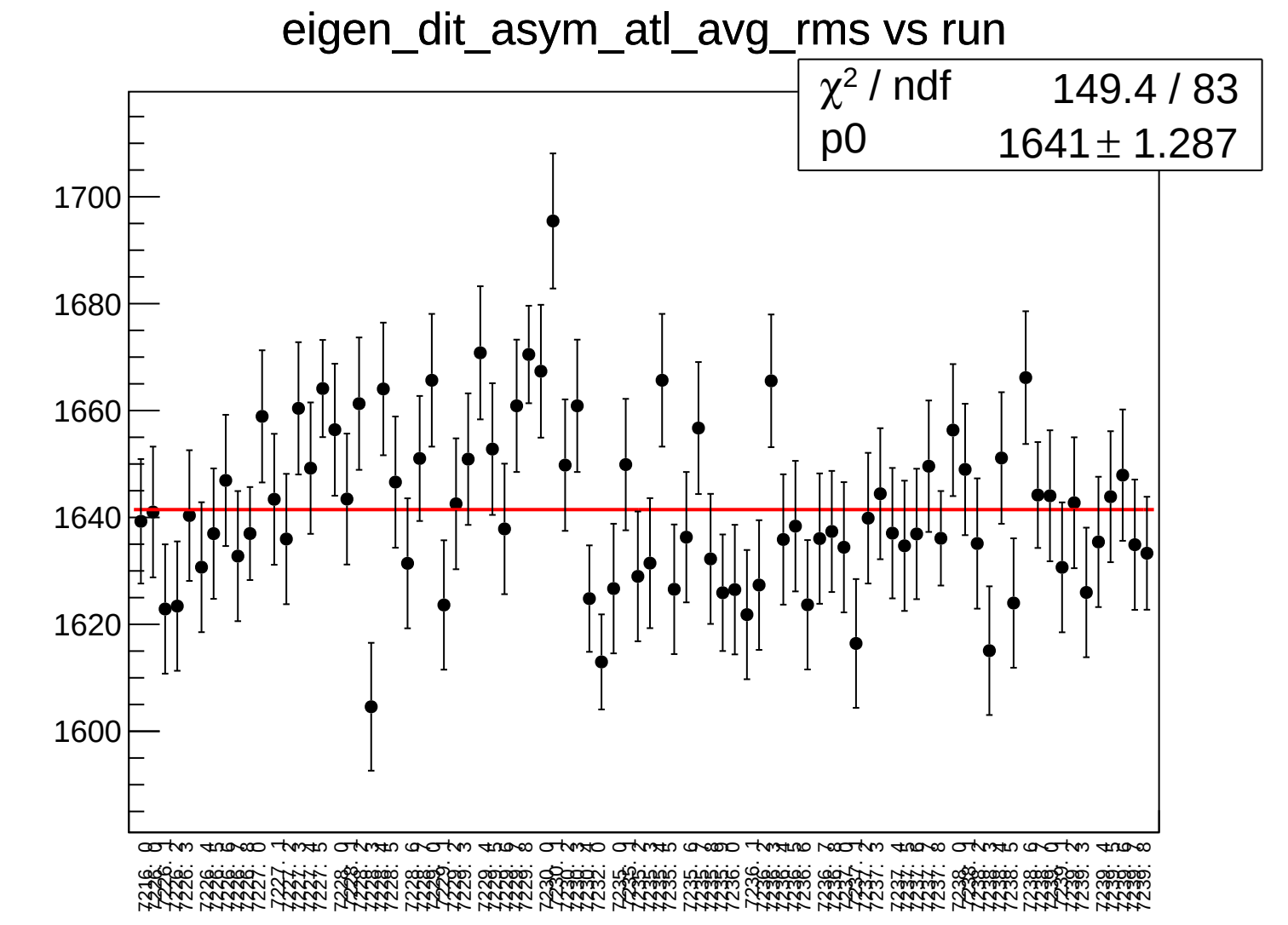

dit_asym_atl_avg_rms vs run
χ² / ndf 149.4 / 83
p0 1641 ± 1.287
1700
1680
1660
1640
1620
1600

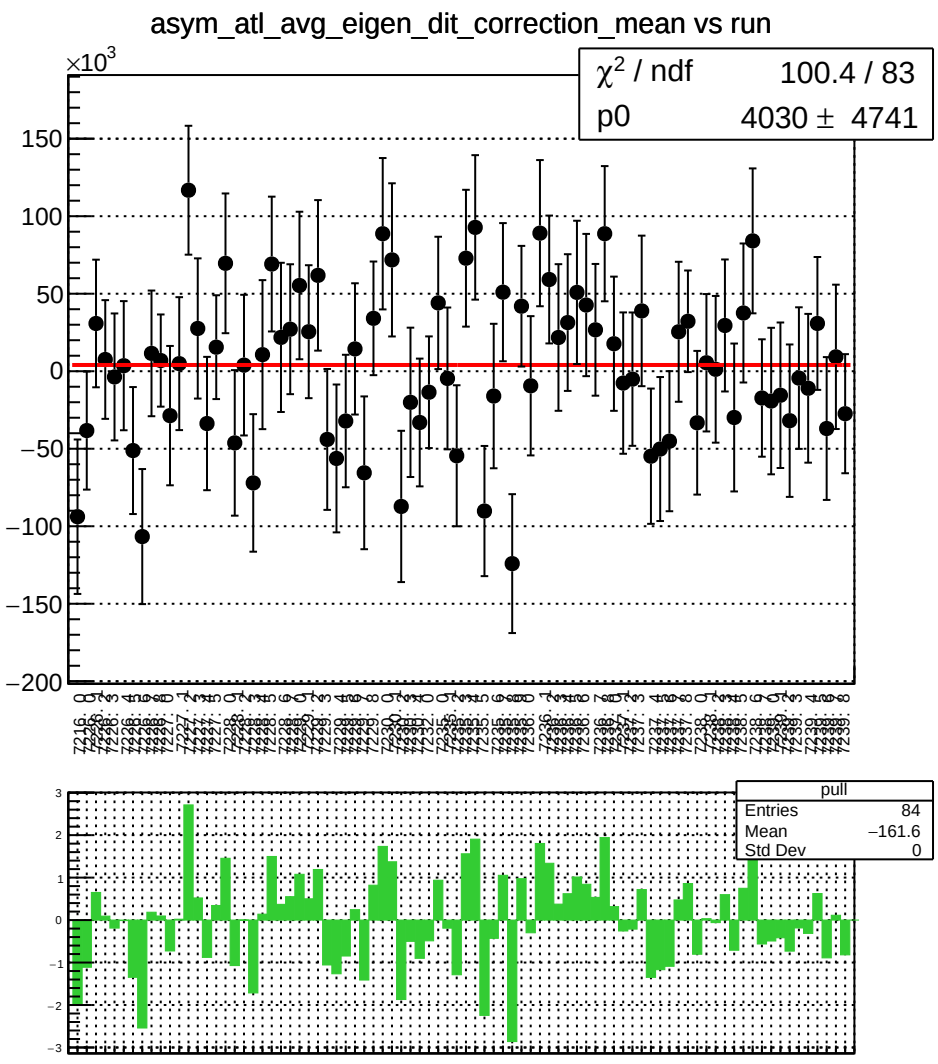

asym_atl_avg_dit_correction_mean vs run
χ² / ndf 100.4 / 83
p0 4030 ± 4741
pull
Entries 84
Mean −161.6
Std Dev 0

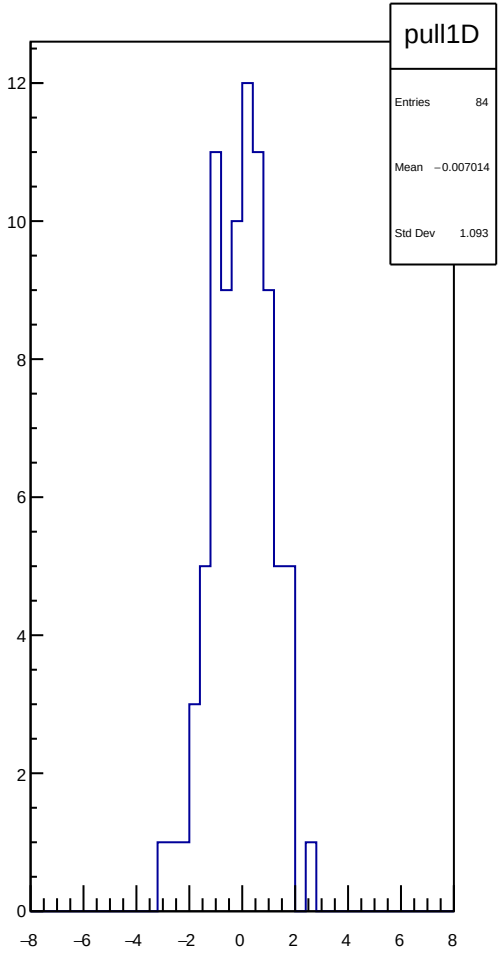

pull1D
Entries 84
Mean −0.007014
Std Dev 1.093

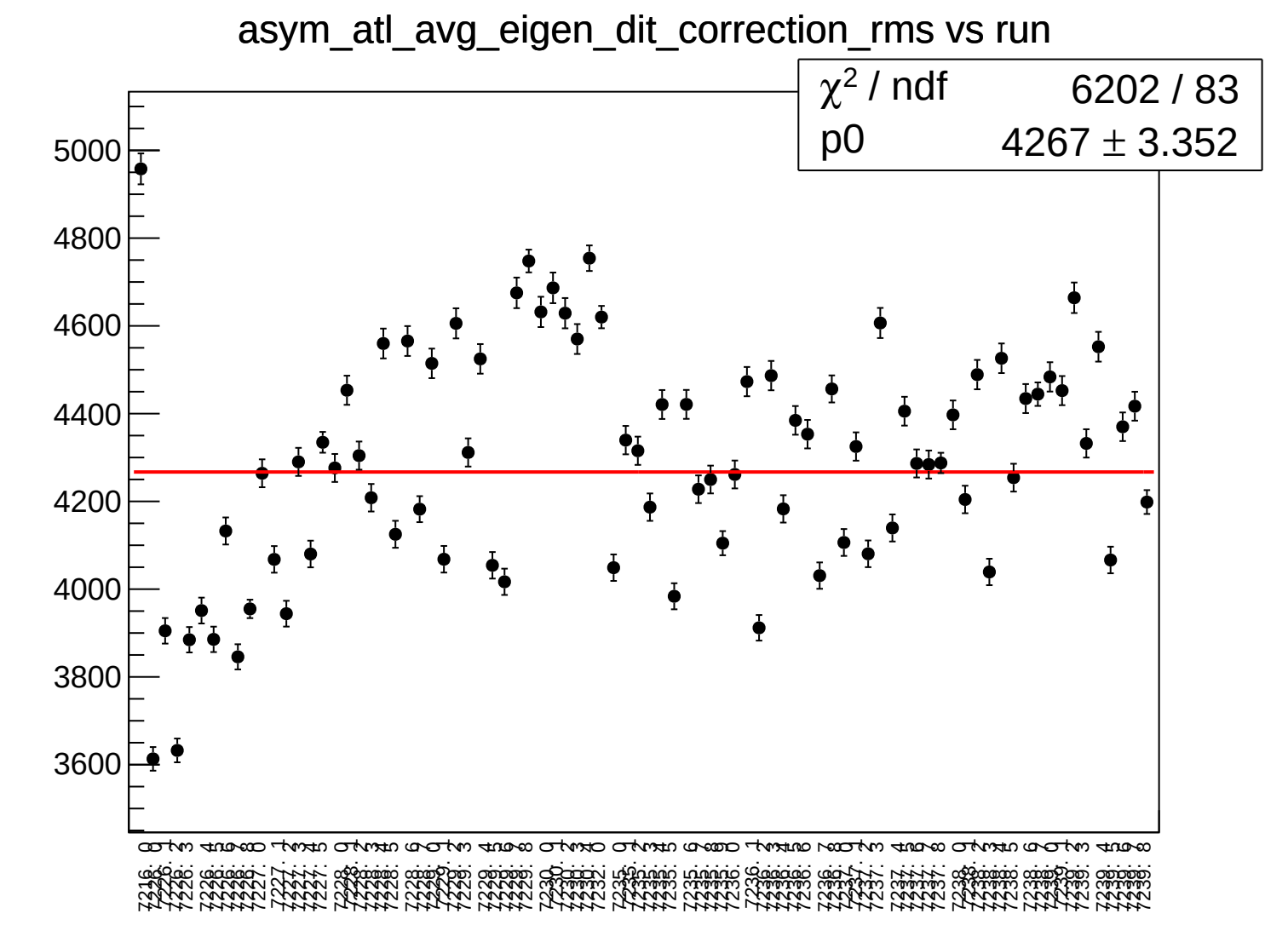

asym_atl_avg_dit_correction_rms vs run
χ² / ndf 6202 / 83
p0 4267 ± 3.352
5000
4800
4600
4400
4200
4000
3800
3600

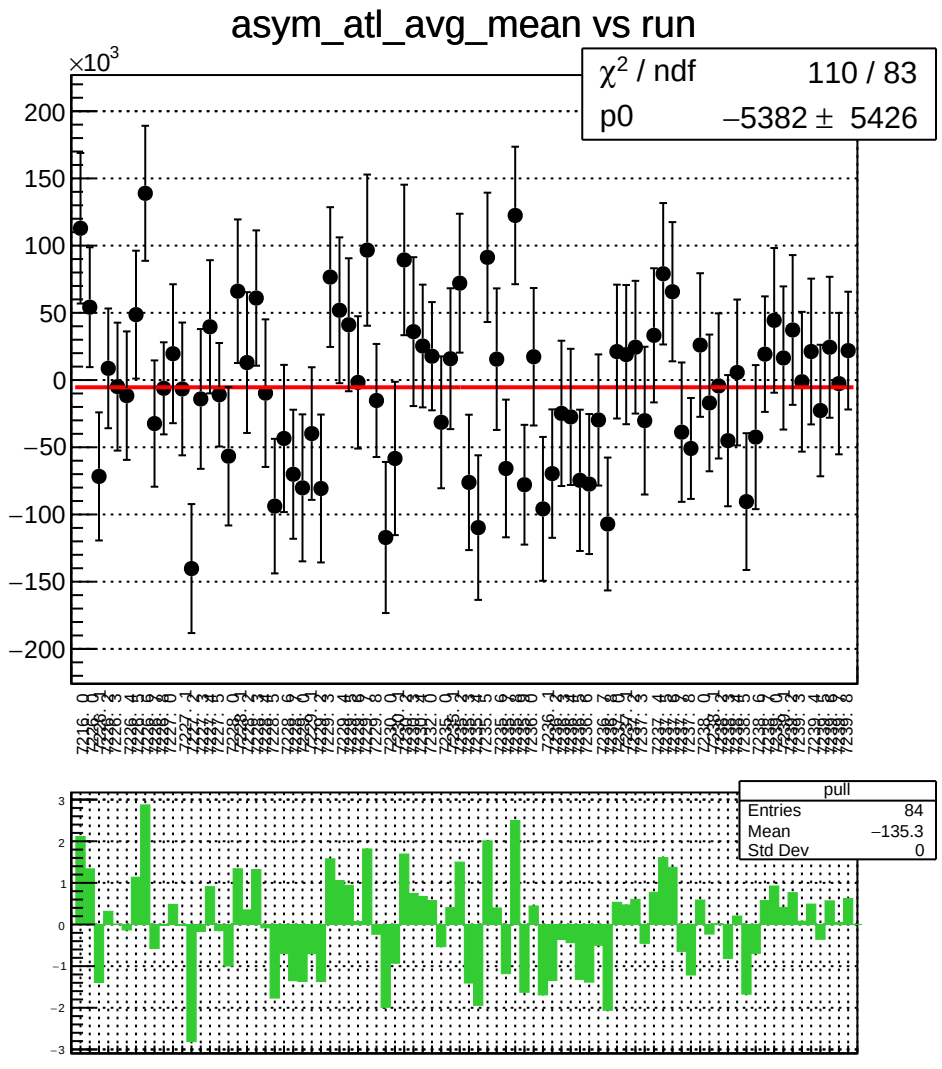

eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 103.5 / 83
p0 −1280 ± 1820
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean −132.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean 0.003131
Std Dev 1.11
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

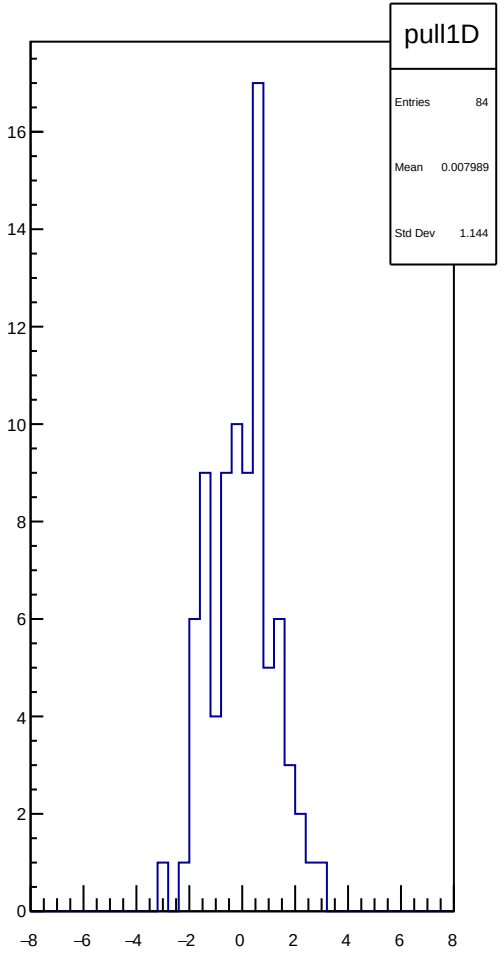

eigen_dit_asym_atl_avg_rms vs run
χ² / ndf 149.4 / 83
p0 1641 ± 1.287
1700
1680
1660
1640
1620
1600

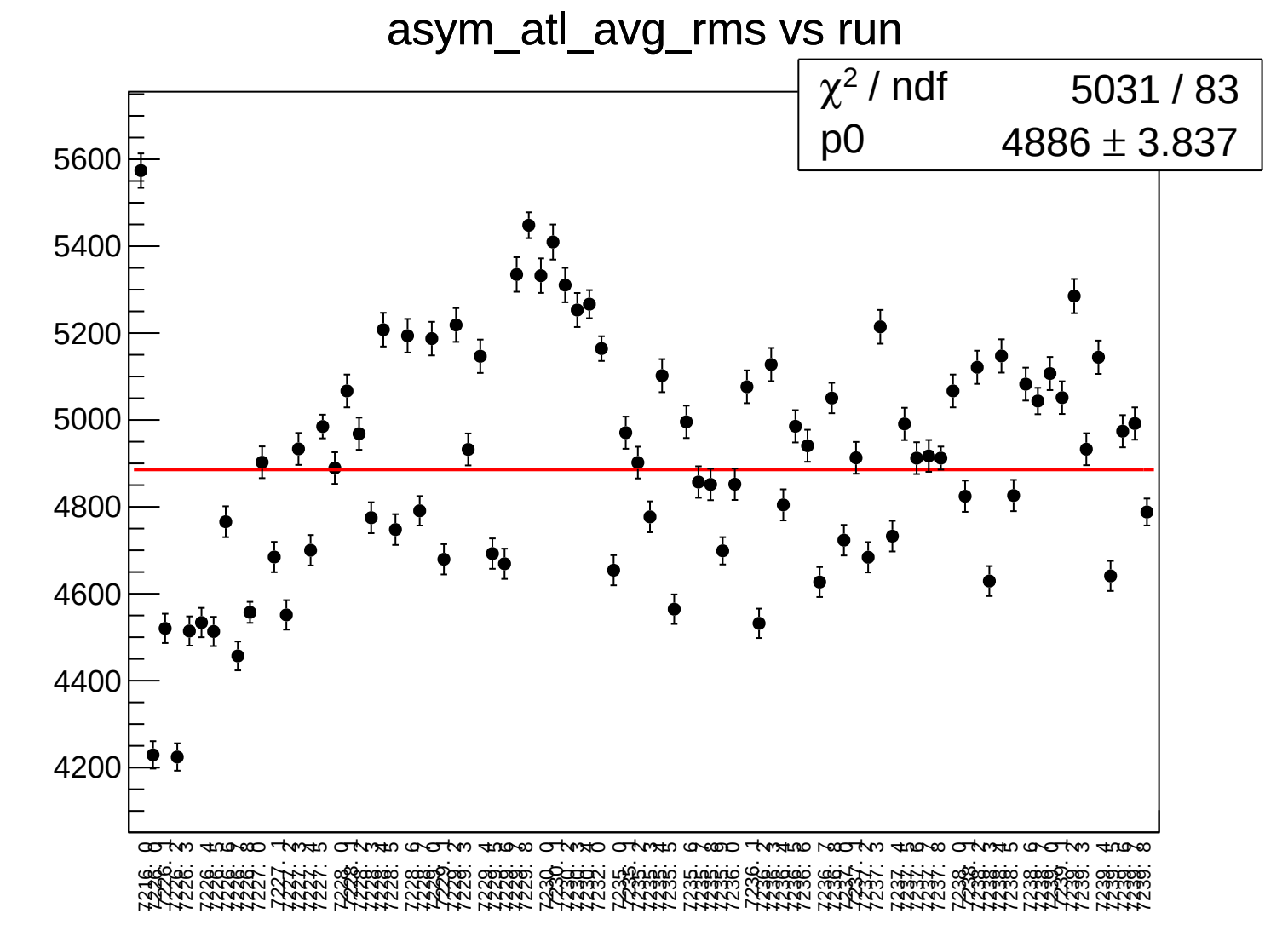

asym_atl_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 100.4 / 83
p0 4030 ± 4741
150
100
50
0
−50
−100
−150
−200
pull
Entries 84
Mean −161.6
Std Dev 0
3
2
1
0
−1
−2
−3

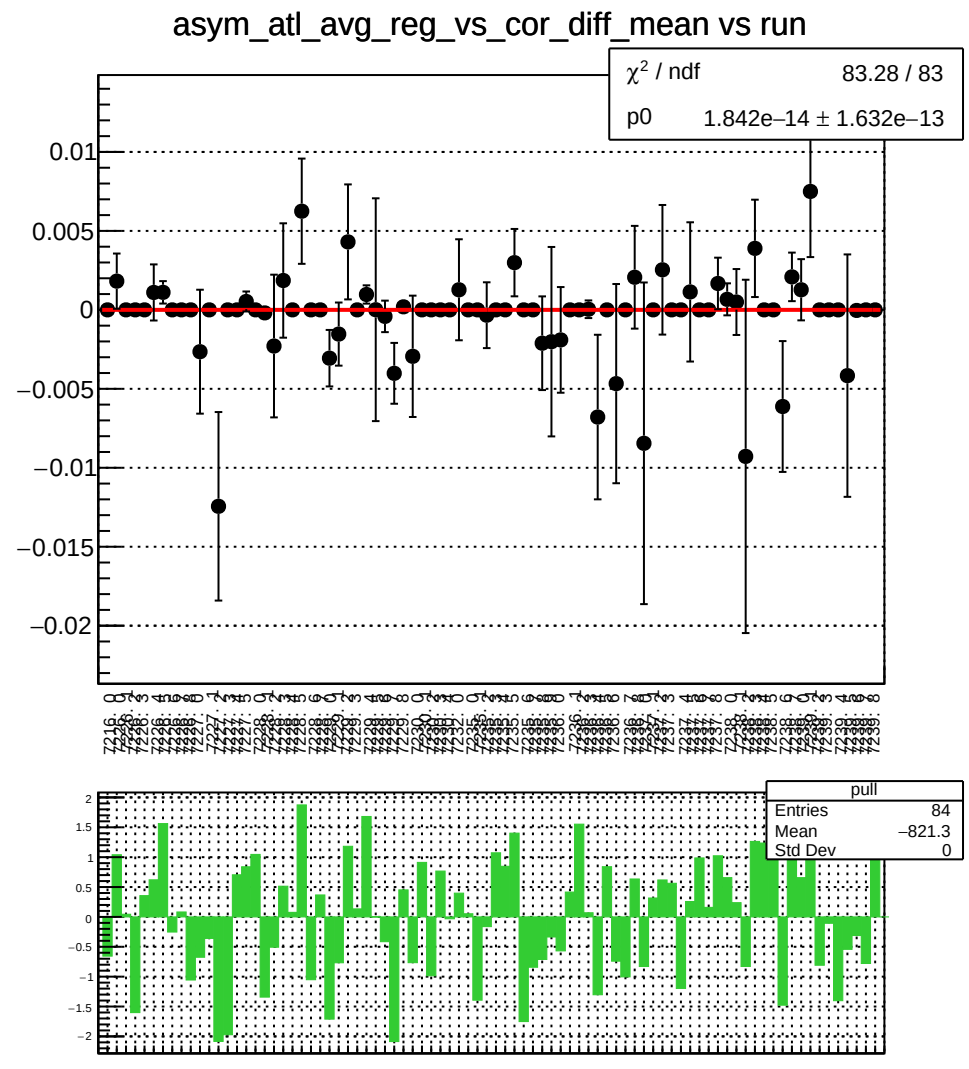

pull1D
Entries 84
Mean −0.007014
Std Dev 1.093
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

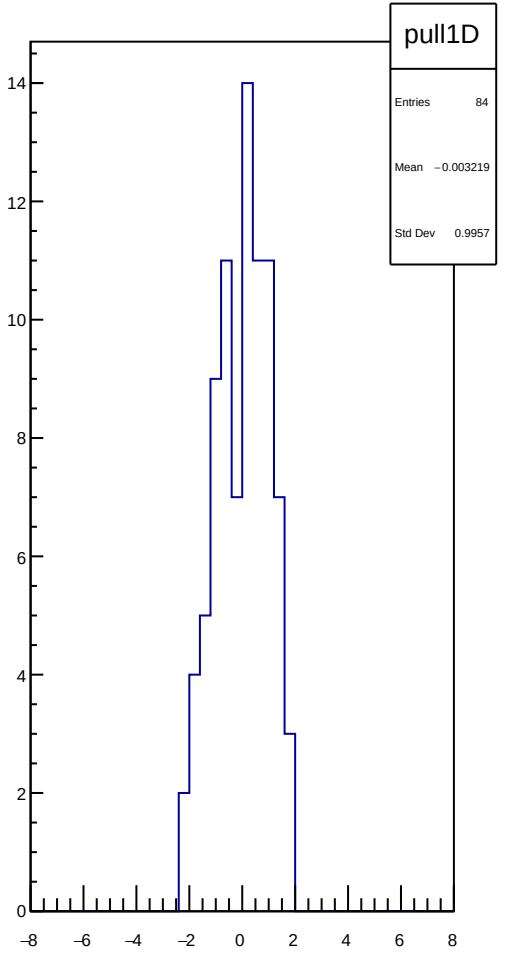

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 6202 / 83
p0 4267 ± 3.352
5000
4800
4600
4400
4200
4000
3800
3600

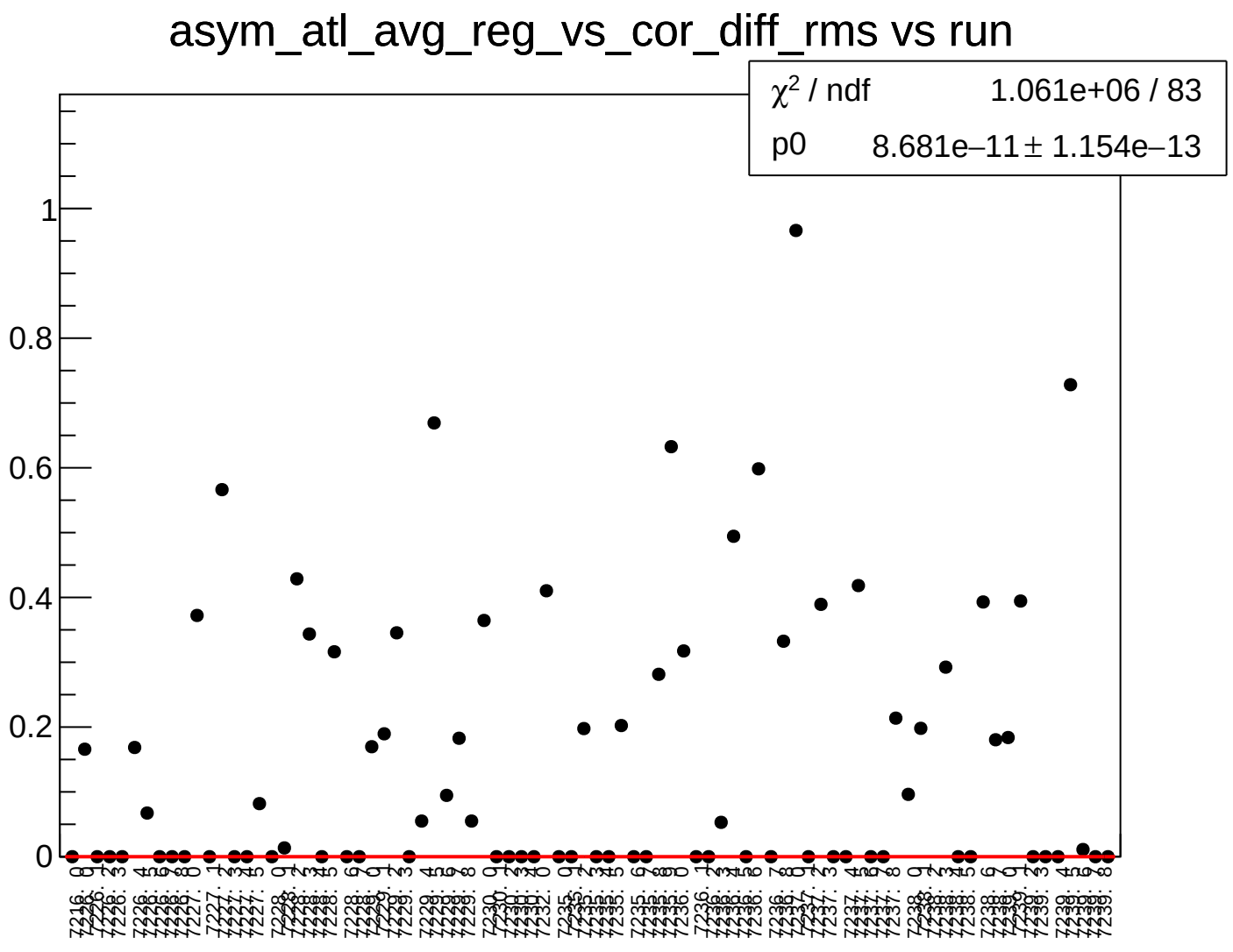

asym_atl_avg_mean vs run
×10^3
χ² / ndf 110 / 83
p0 −5382 ± 5426
pull
Entries 84
Mean −135.3
Std Dev 0

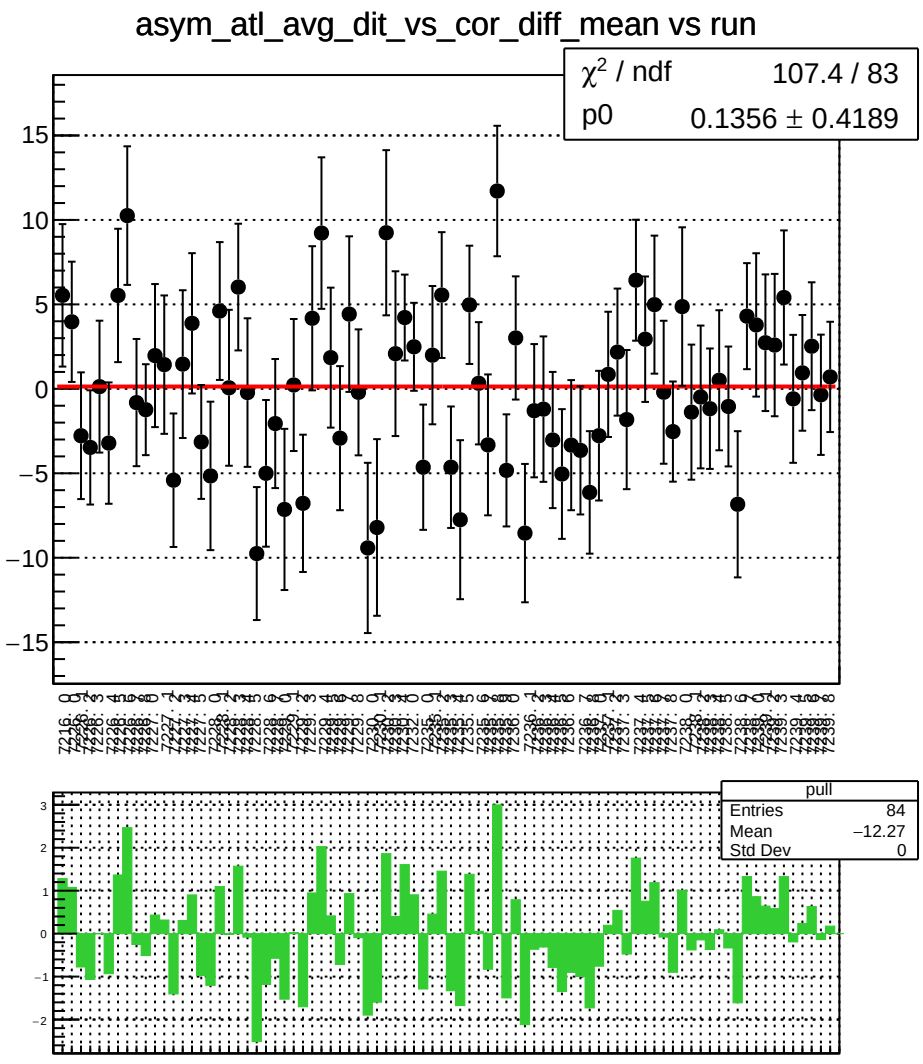

pull1D
Entries 84
Mean 0.007989
Std Dev 1.144

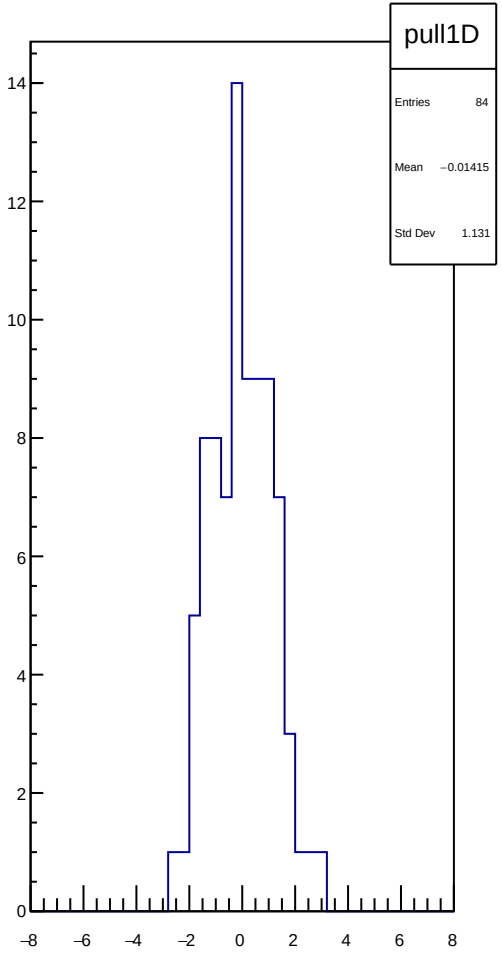

asym_atl_avg_rms vs run
χ² / ndf 5031 / 83
p0 4886 ± 3.837
5600
5400
5200
5000
4800
4600
4400
4200

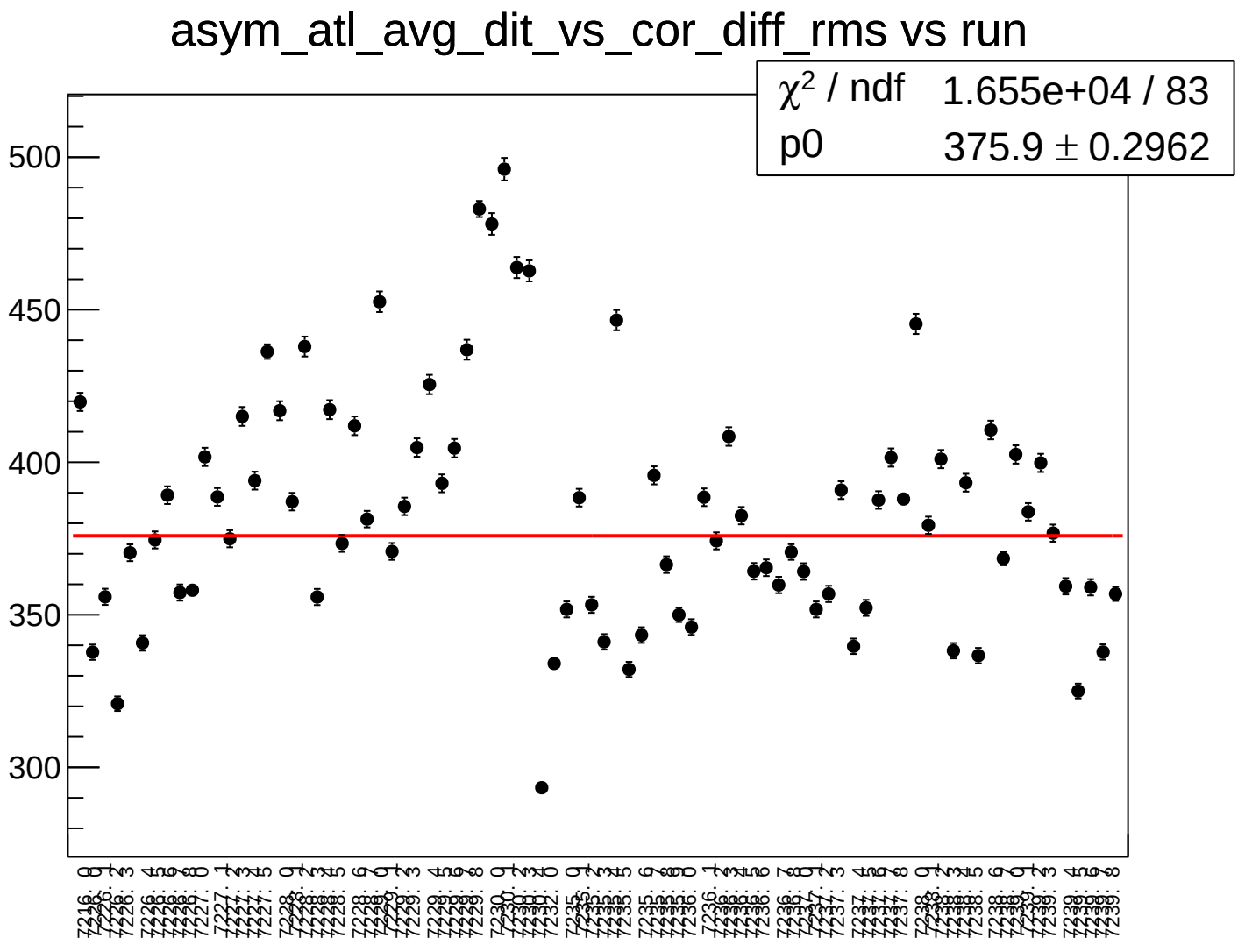

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 83.28 / 83
p0 1.842e−14 ± 1.632e−13
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 84
Mean −821.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

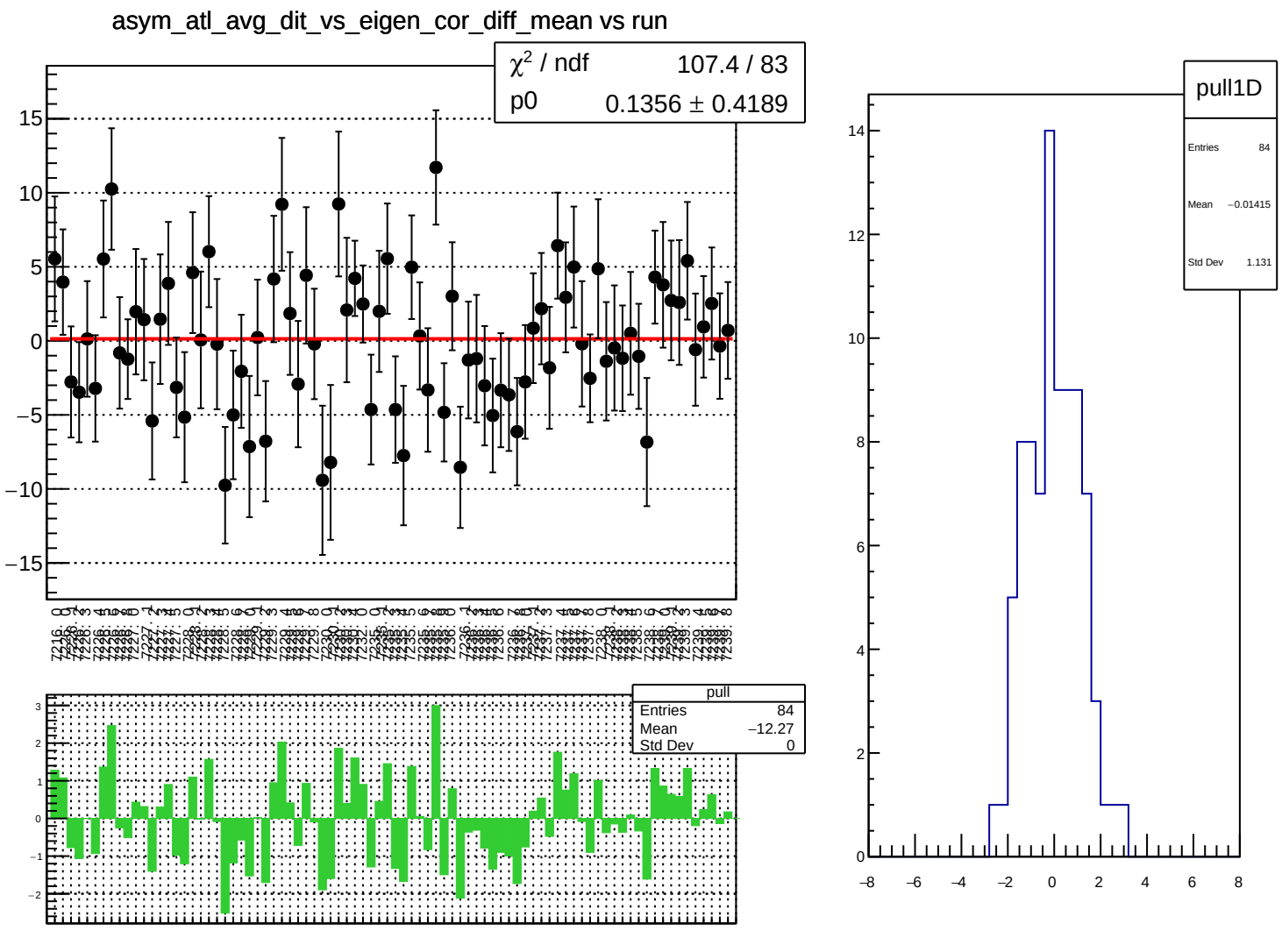

pull1D
Entries 84
Mean −0.003219
Std Dev 0.9957
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

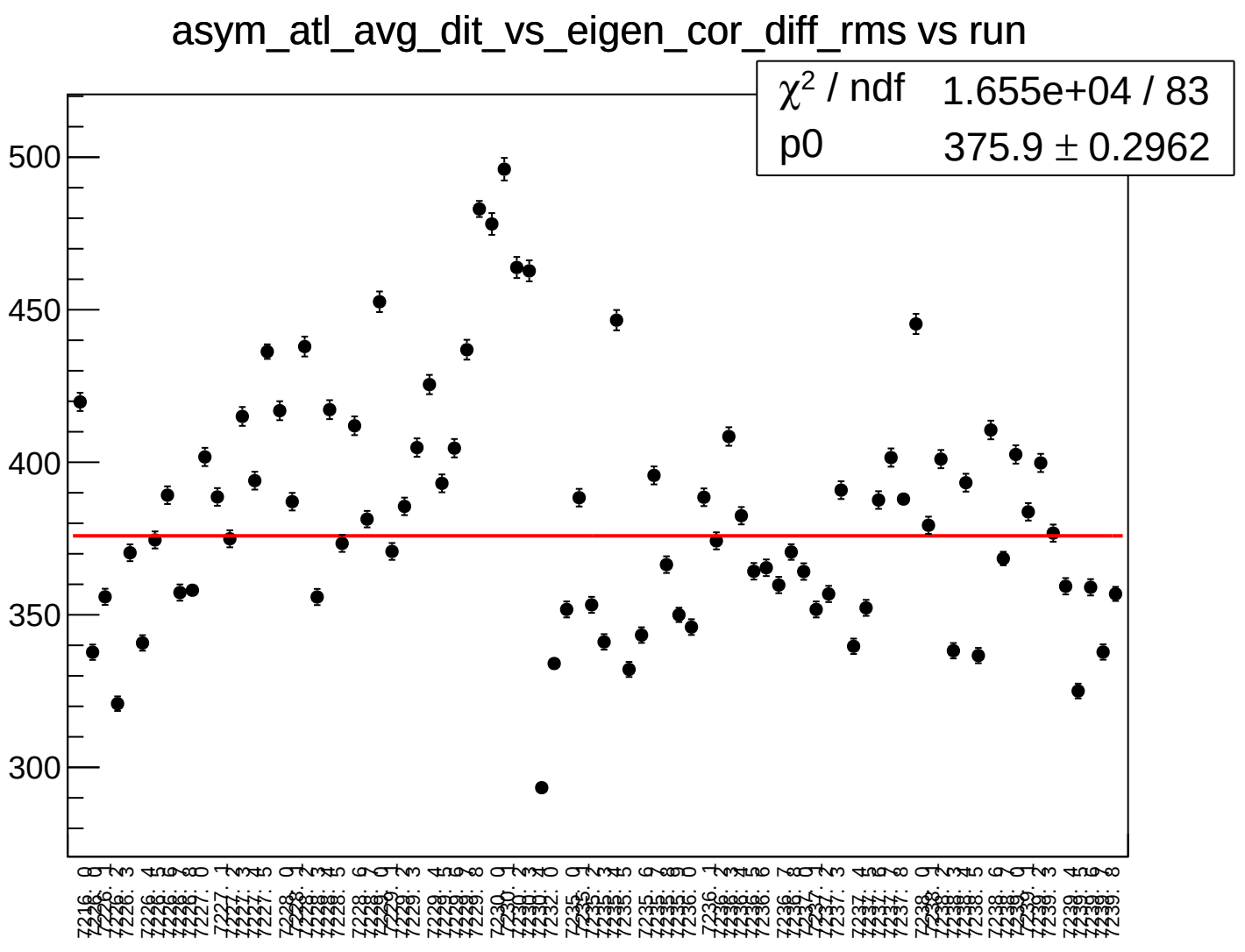

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.061e+06 / 83
p0 8.681e−11 ± 1.154e−13
1
0.8
0.6
0.4
0.2
0

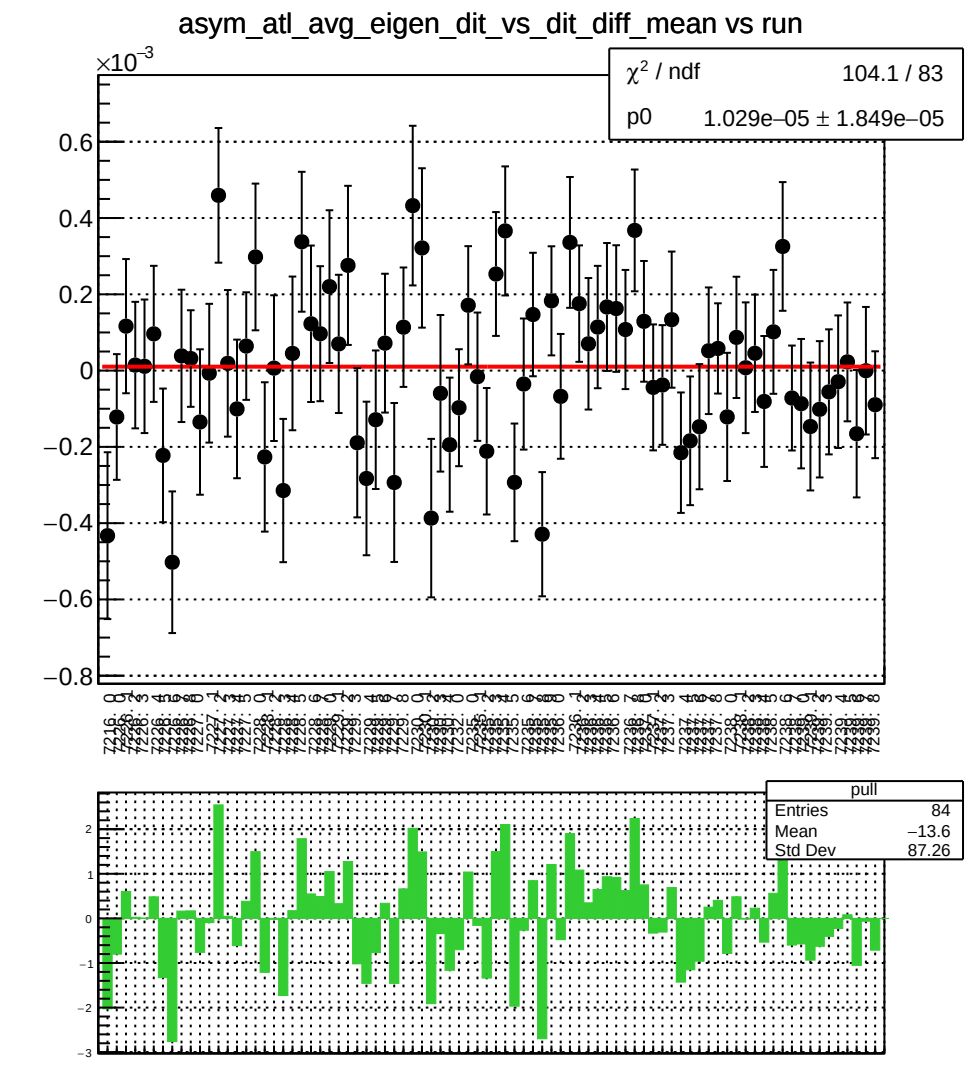

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 107.4 / 83
p0 0.1356 ± 0.4189
pull
Entries 84
Mean −12.27
Std Dev 0

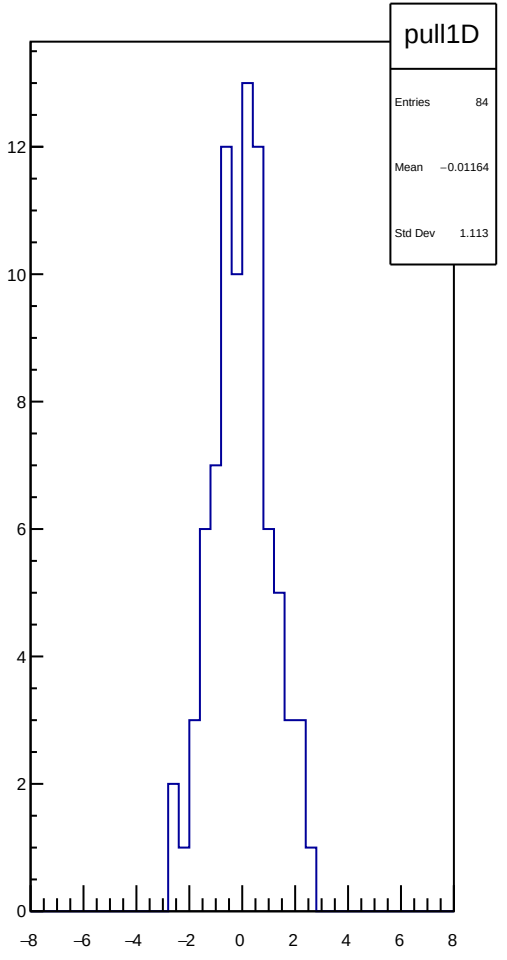

pull1D
Entries 84
Mean −0.01415
Std Dev 1.131

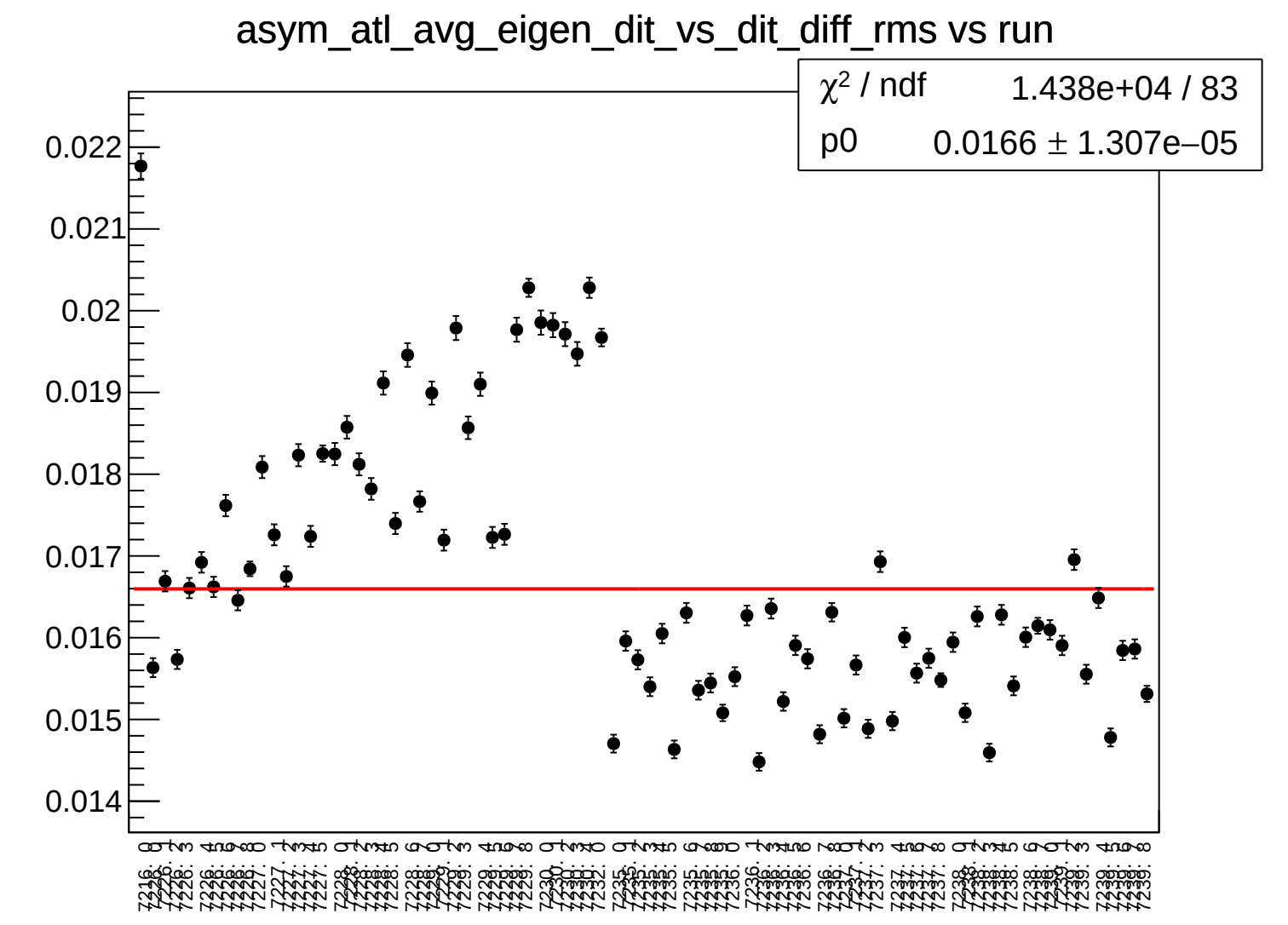

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.655e+04 / 83
p0 375.9 ± 0.2962
500
450
400
350
300

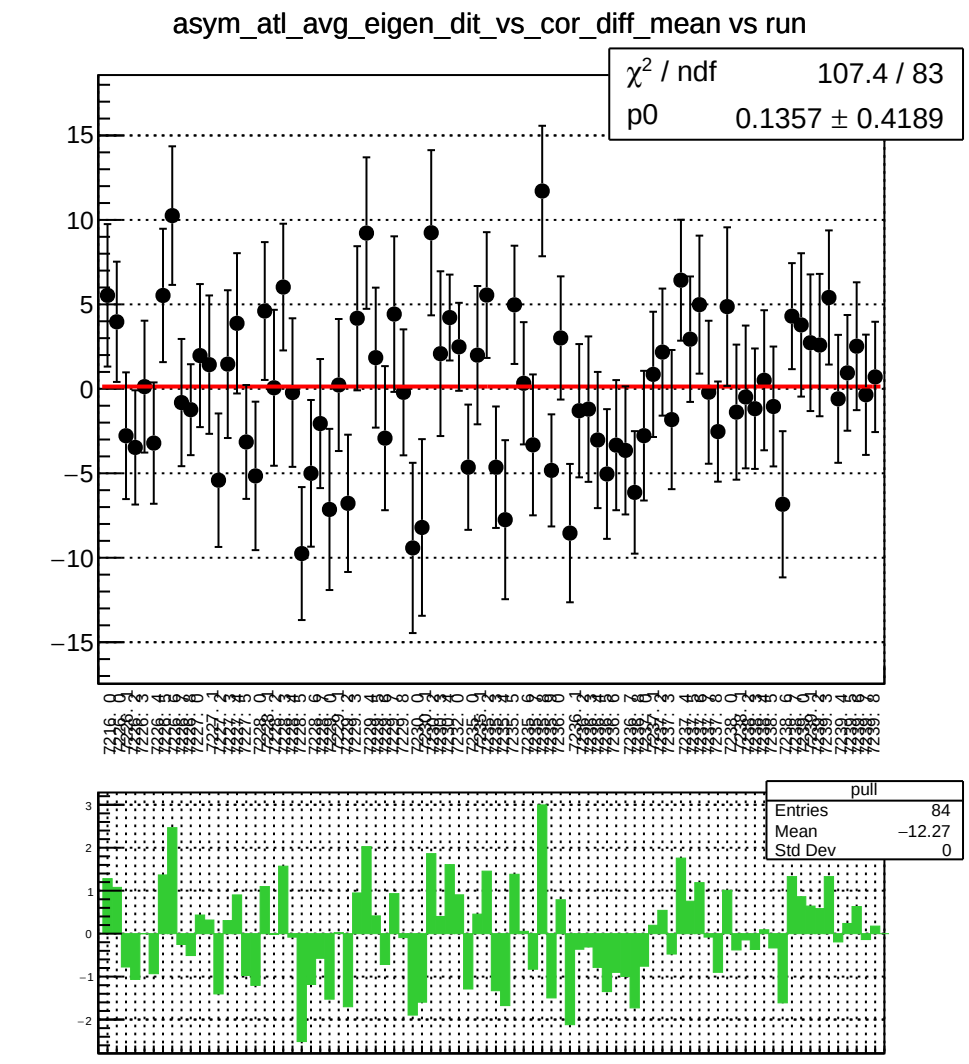

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.4 / 83
p0 0.1356 ± 0.4189
pull
Entries 84
Mean −12.27
Std Dev 0
pull1D
Entries 84
Mean −0.01415
Std Dev 1.131

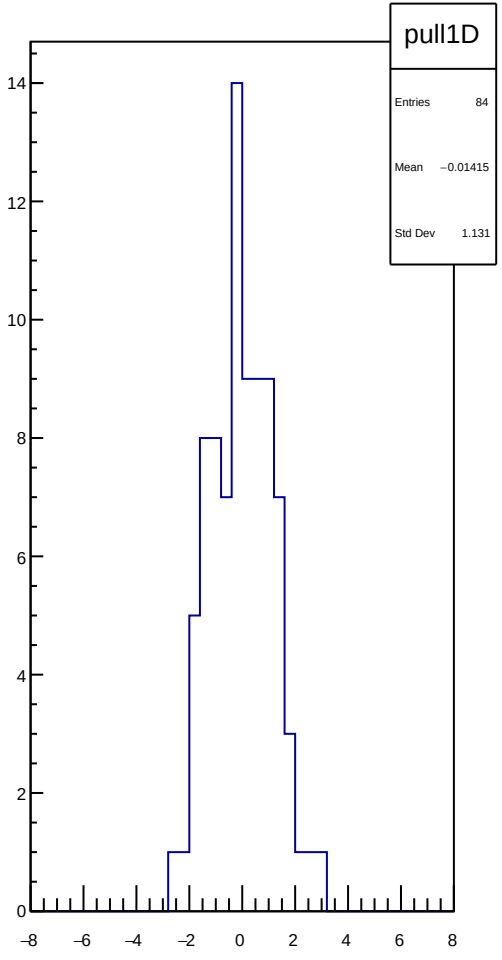

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.655e+04 / 83
p0 375.9 ± 0.2962
500
450
400
350
300

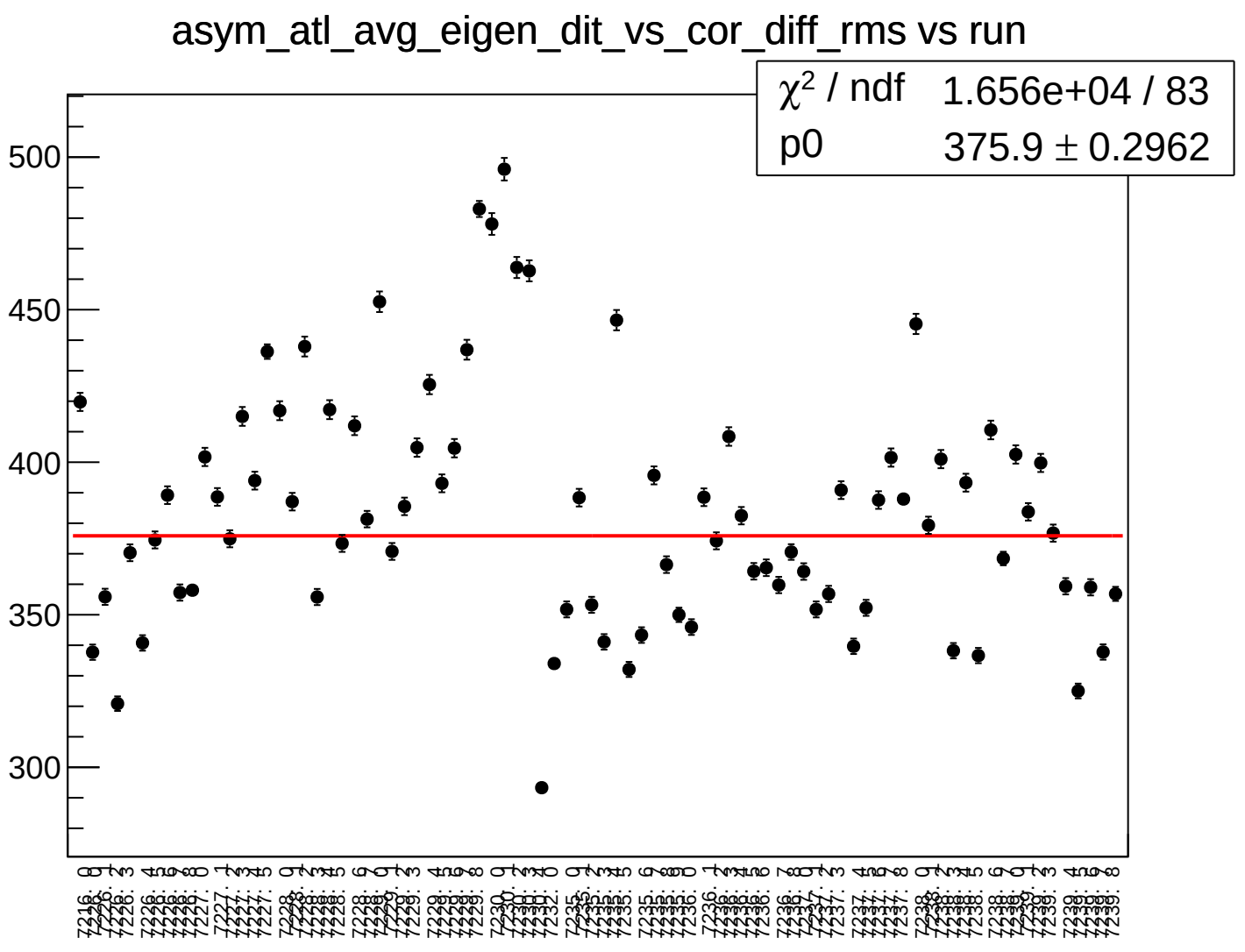

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 104.1 / 83
p0 1.029e−05 ± 1.849e−05
×10⁻³
pull
Entries 84
Mean −13.6
Std Dev 87.26

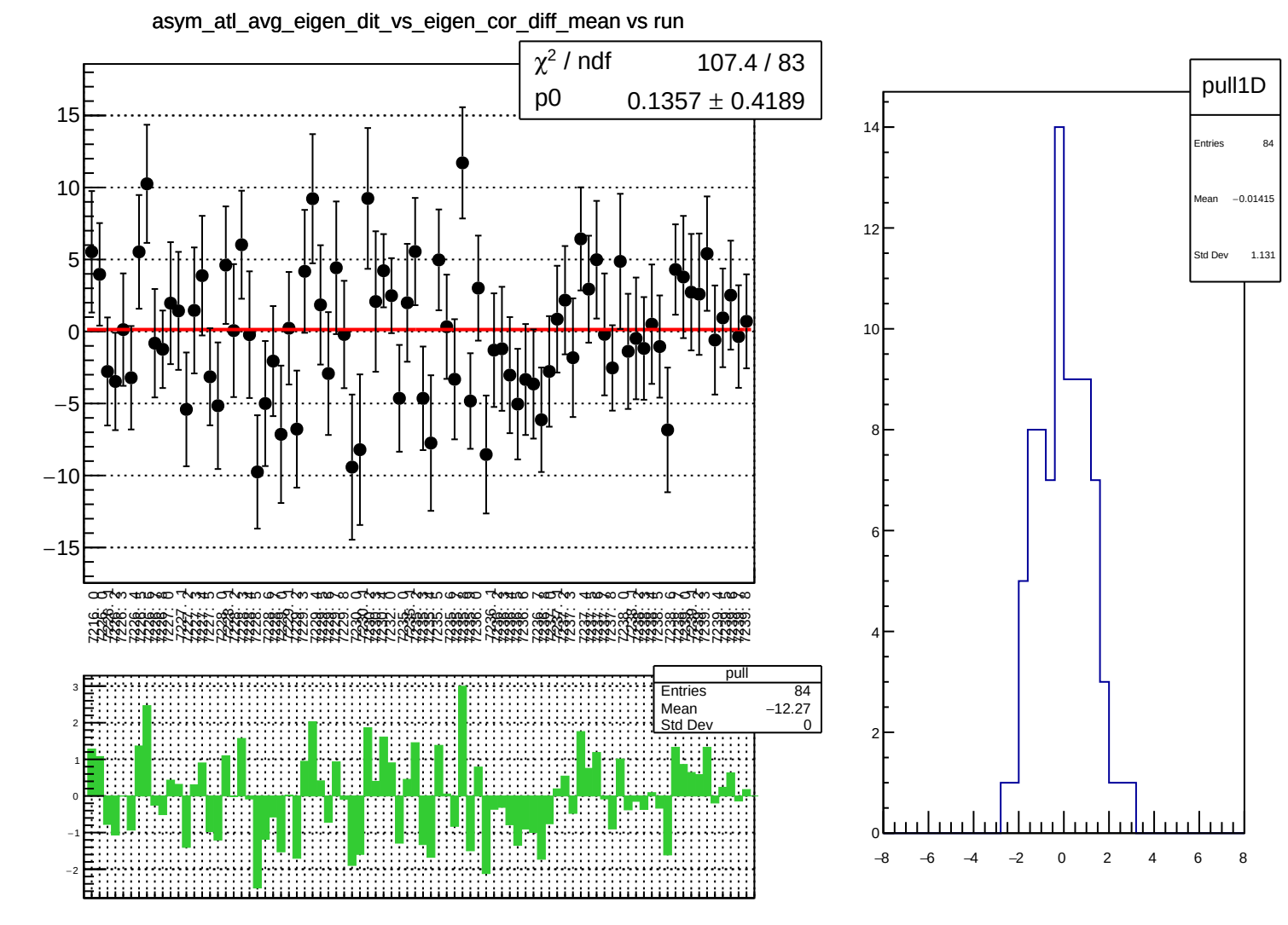

pull1D
Entries 84
Mean −0.01164
Std Dev 1.113

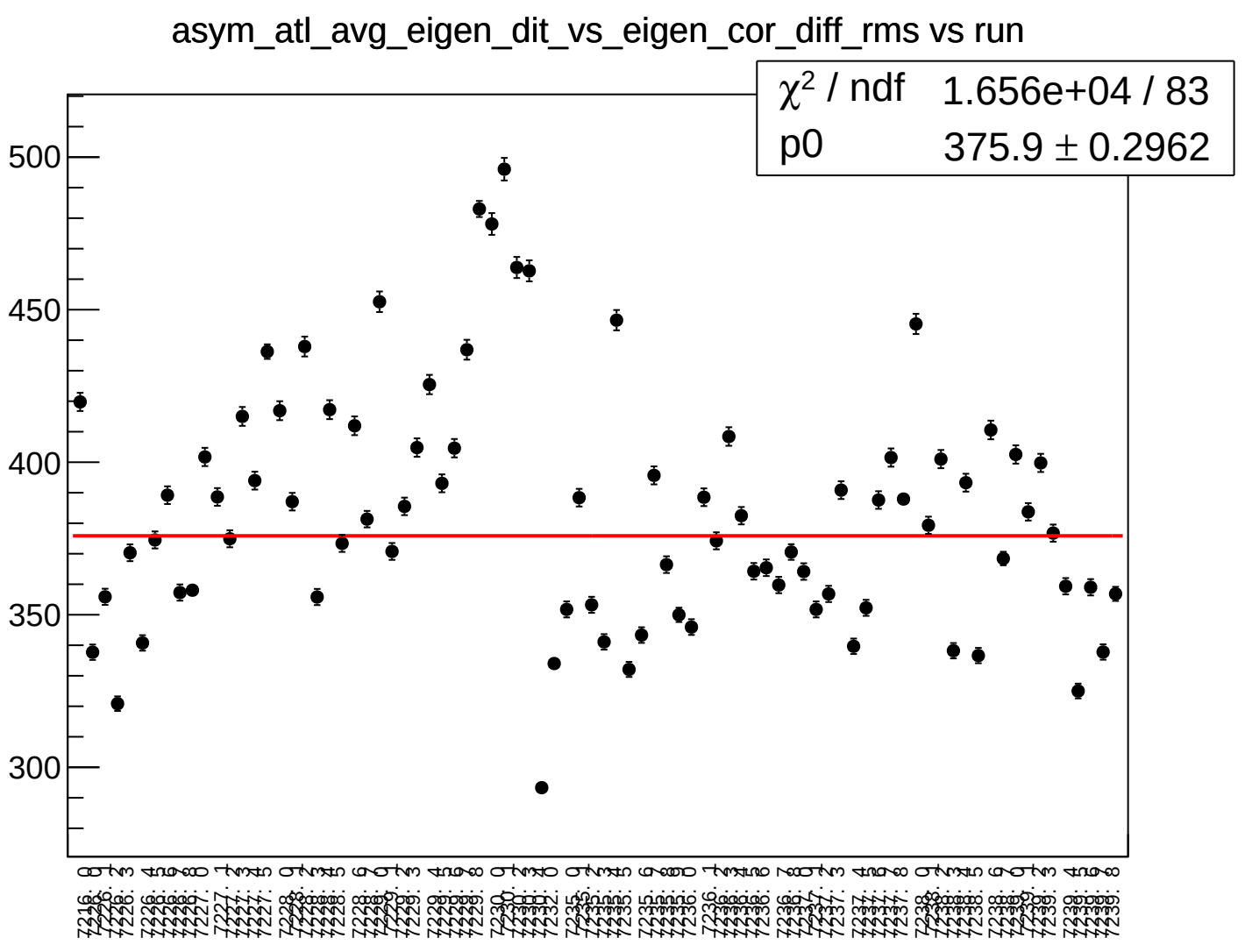

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.438e+04 / 83
p0 0.0166 ± 1.307e−05
0.022
0.021
0.02
0.019
0.018
0.017
0.016
0.015
0.014

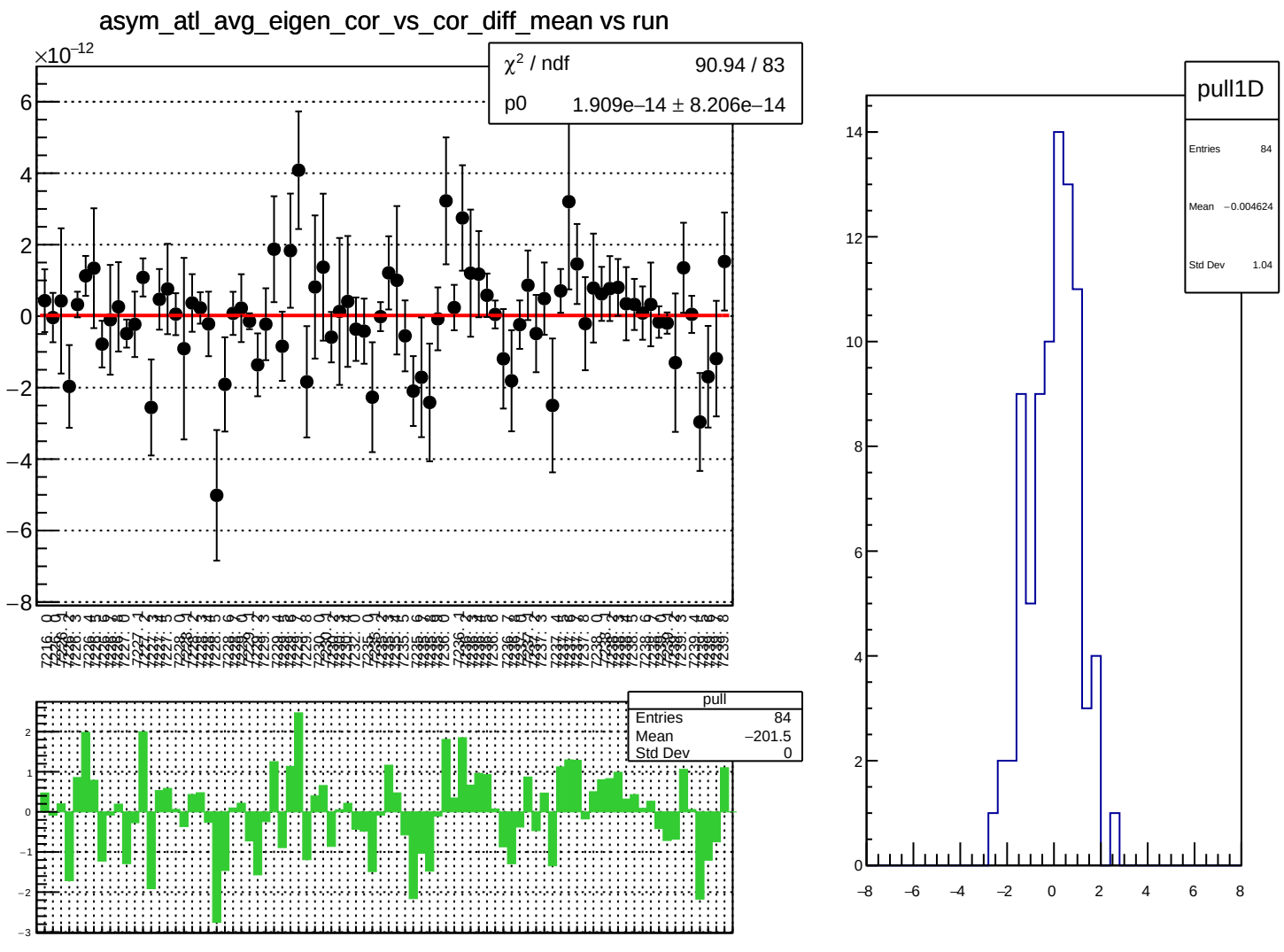

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 107.4 / 83
p0 0.1357 ± 0.4189
pull
Entries 84
Mean −12.27
Std Dev 0

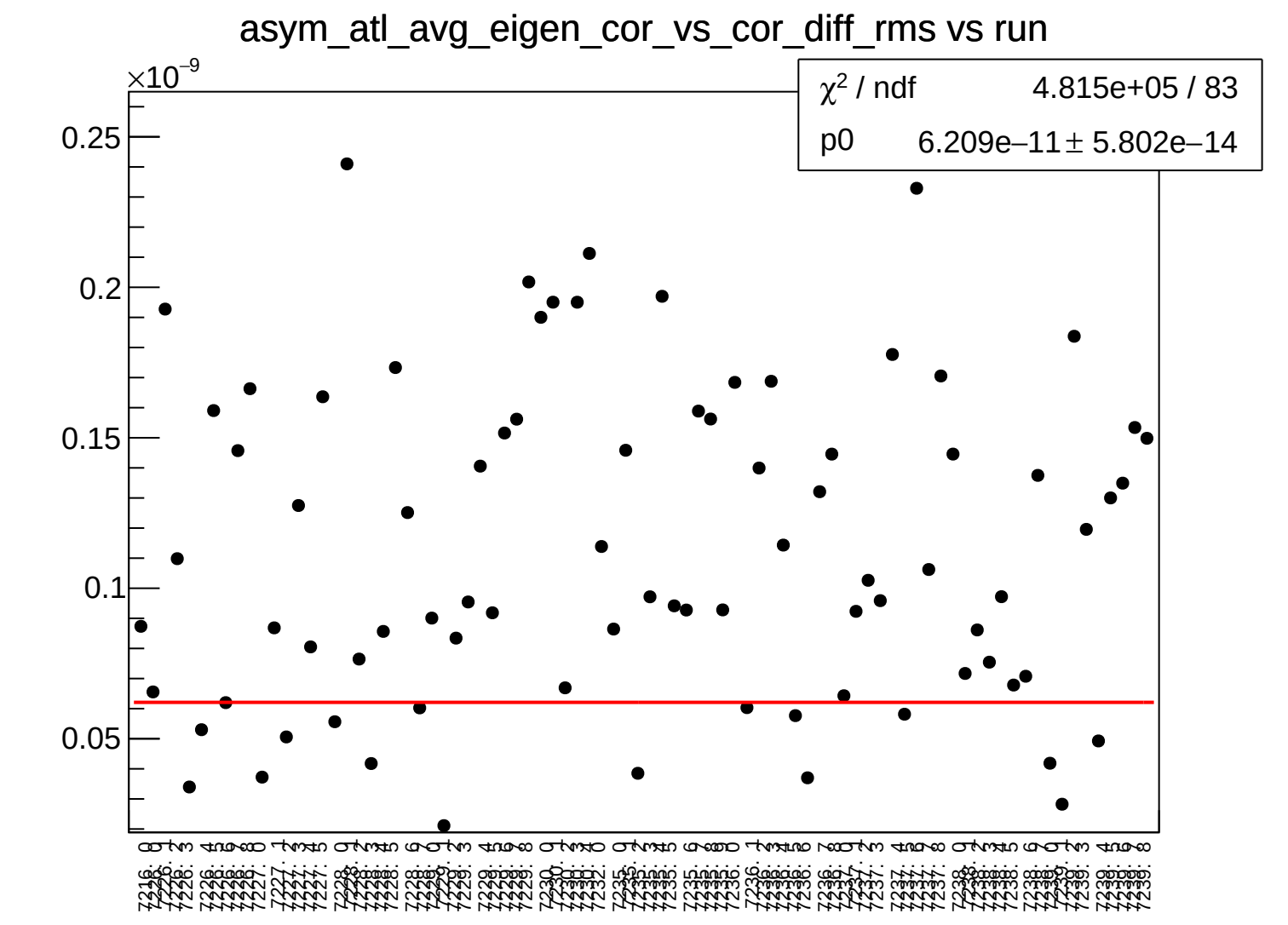

pull1D
Entries 84
Mean −0.01415
Std Dev 1.131

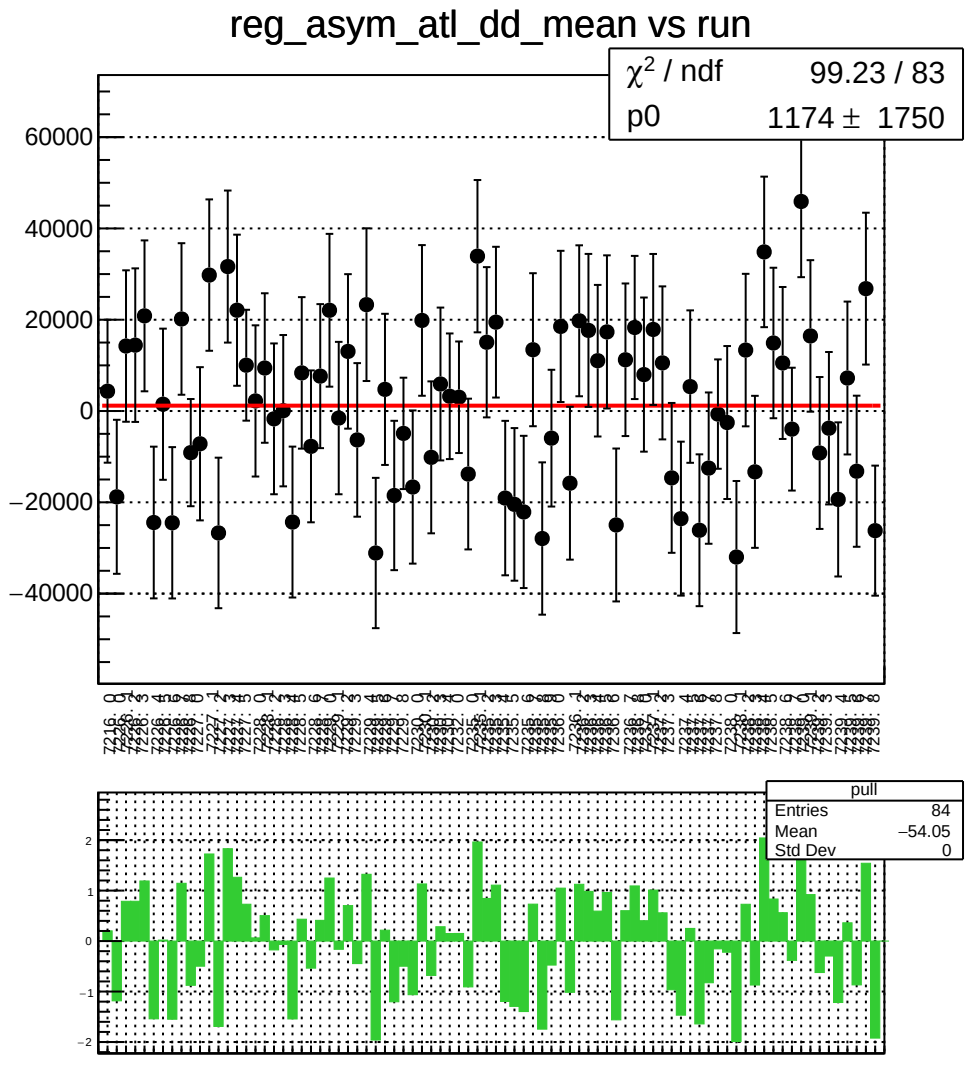

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.656e+04 / 83
p0 375.9 ± 0.2962
500
450
400
350
300

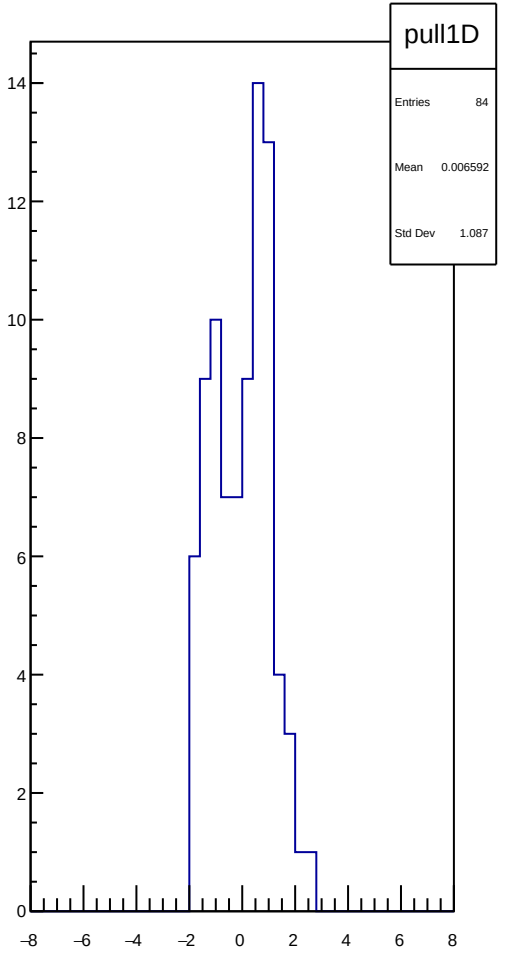

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.4 / 83
p0 0.1357 ± 0.4189
pull
Entries 84
Mean −12.27
Std Dev 0
pull1D
Entries 84
Mean −0.01415
Std Dev 1.131

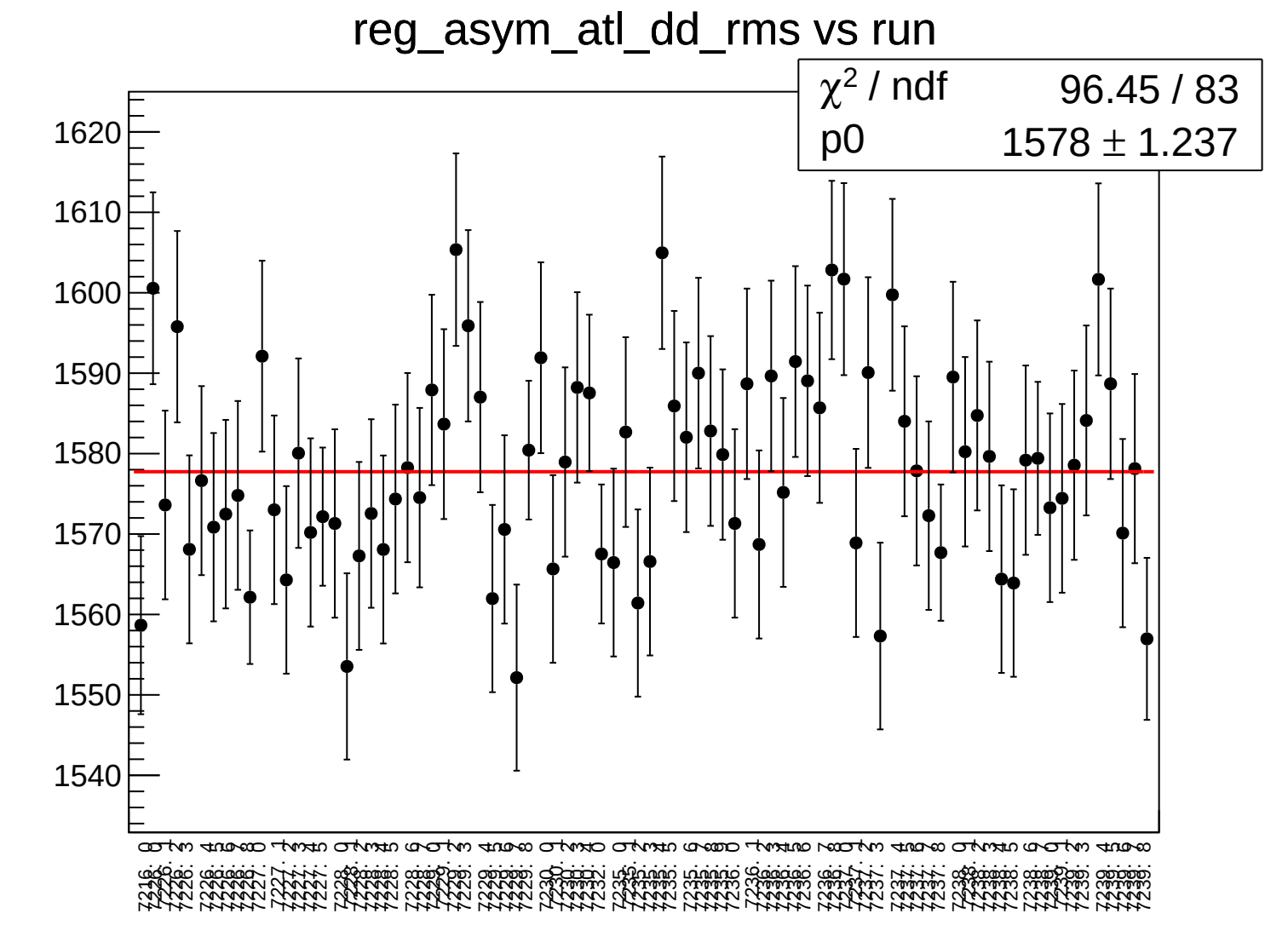

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.656e+04 / 83
p0 375.9 ± 0.2962
500
450
400
350
300

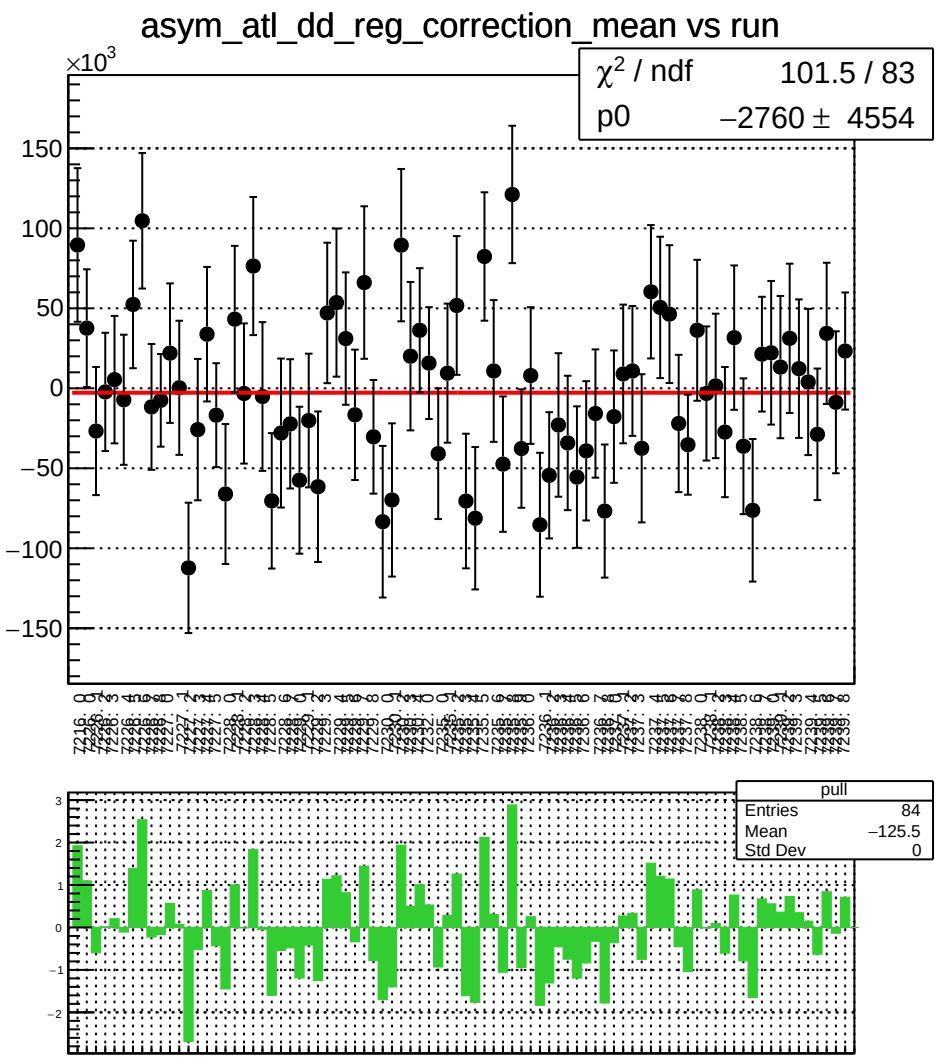

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.94 / 83
p0 1.909e−14 ± 8.206e−14
pull
Entries 84
Mean −201.5
Std Dev 0
pull1D
Entries 84
Mean −0.004624
Std Dev 1.04

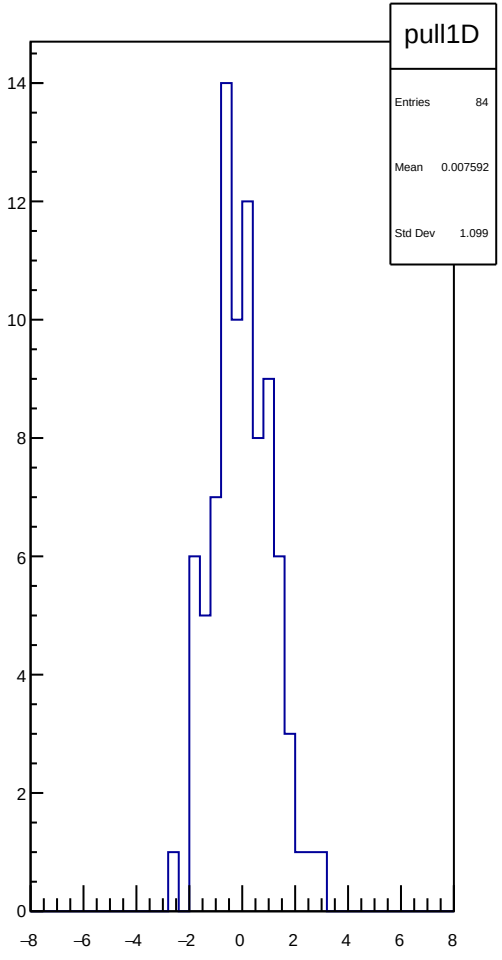

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.815e+05 / 83
p0 6.209e−11 ± 5.802e−14
0.25
0.2
0.15
0.1
0.05

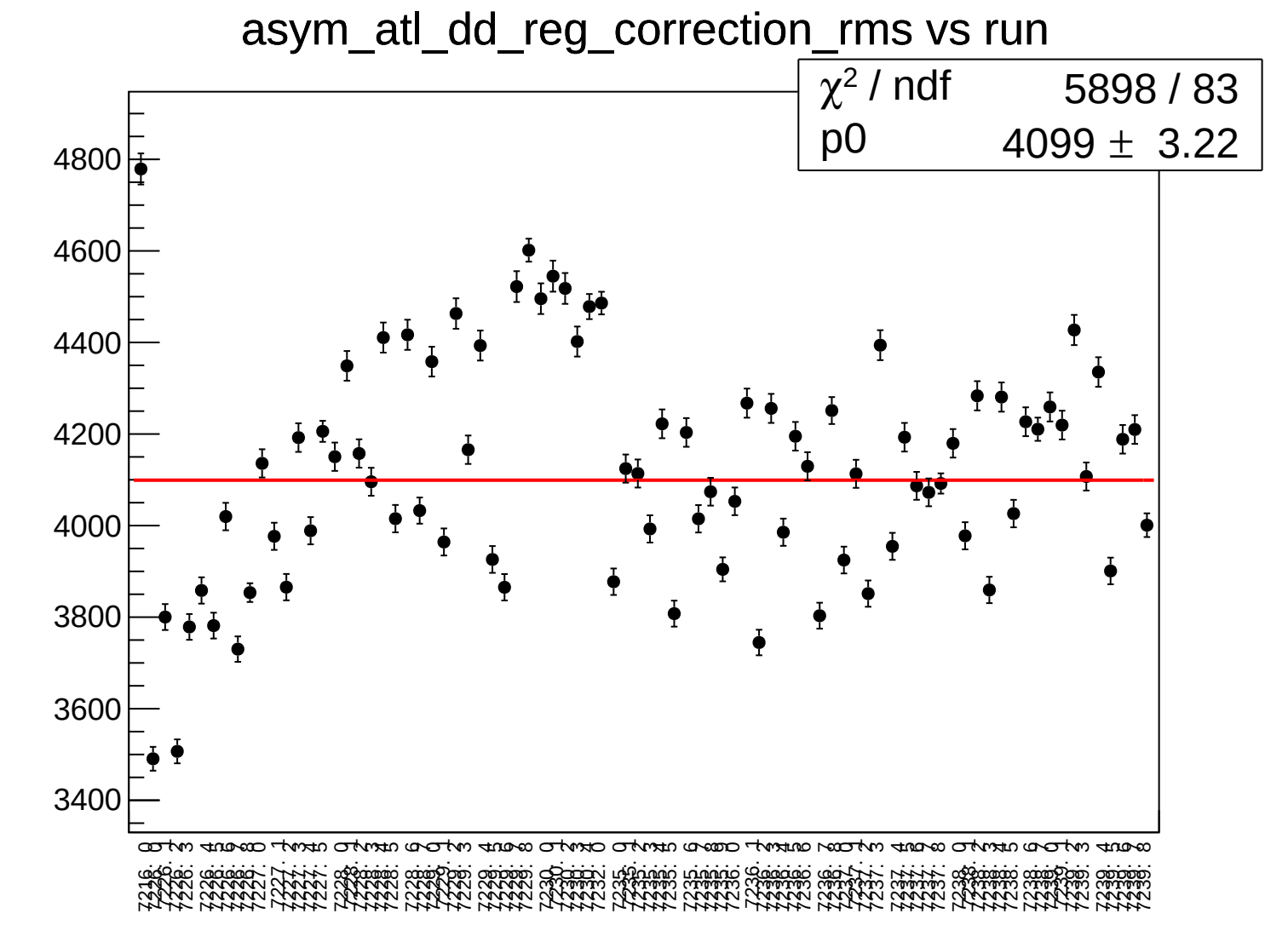

reg_asym_atl_dd_mean vs run
χ² / ndf 99.23 / 83
p0 1174 ± 1750
60000
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −54.05
Std Dev 0
2
1
0
−1
−2

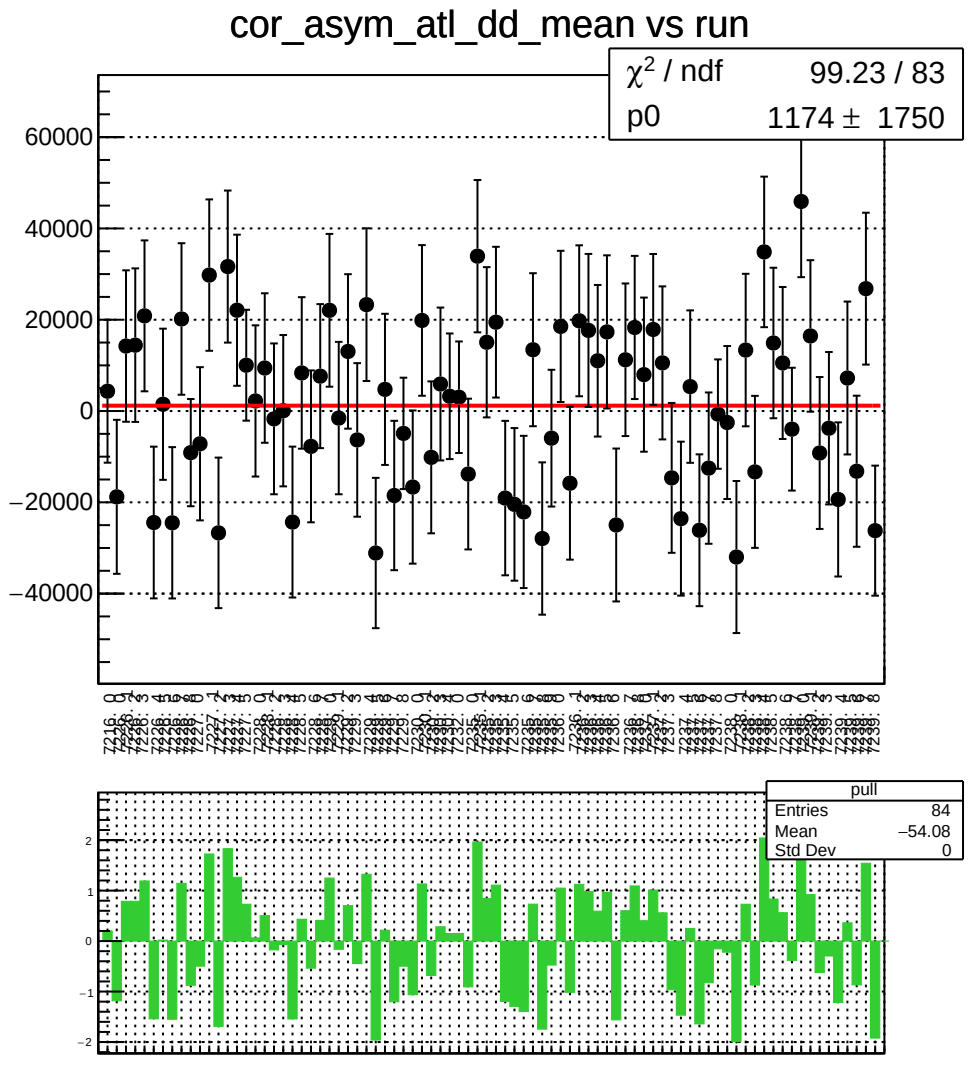

pull1D
Entries 84
Mean 0.006592
Std Dev 1.087
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

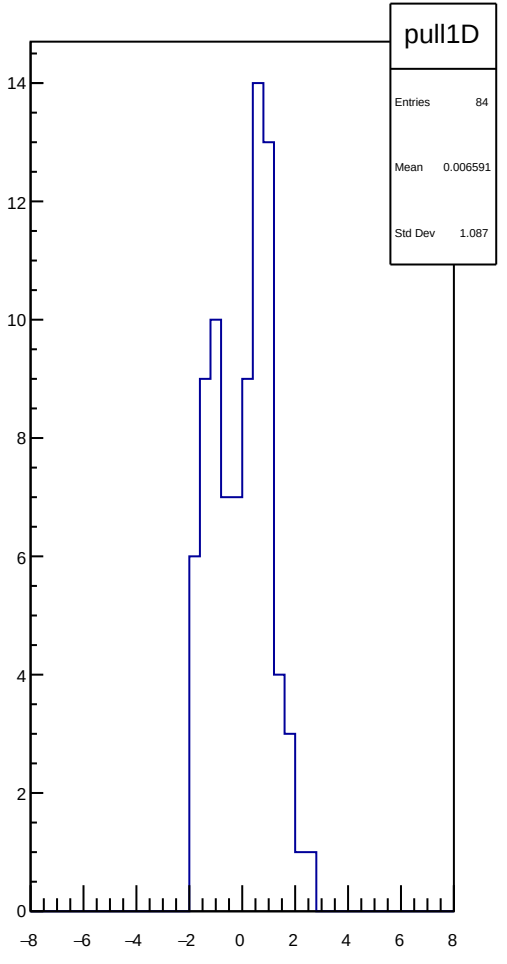

reg_asym_atl_dd_rms vs run
χ^2 / ndf 96.45 / 83
p0 1578 ± 1.237
1620
1610
1600
1590
1580
1570
1560
1550
1540

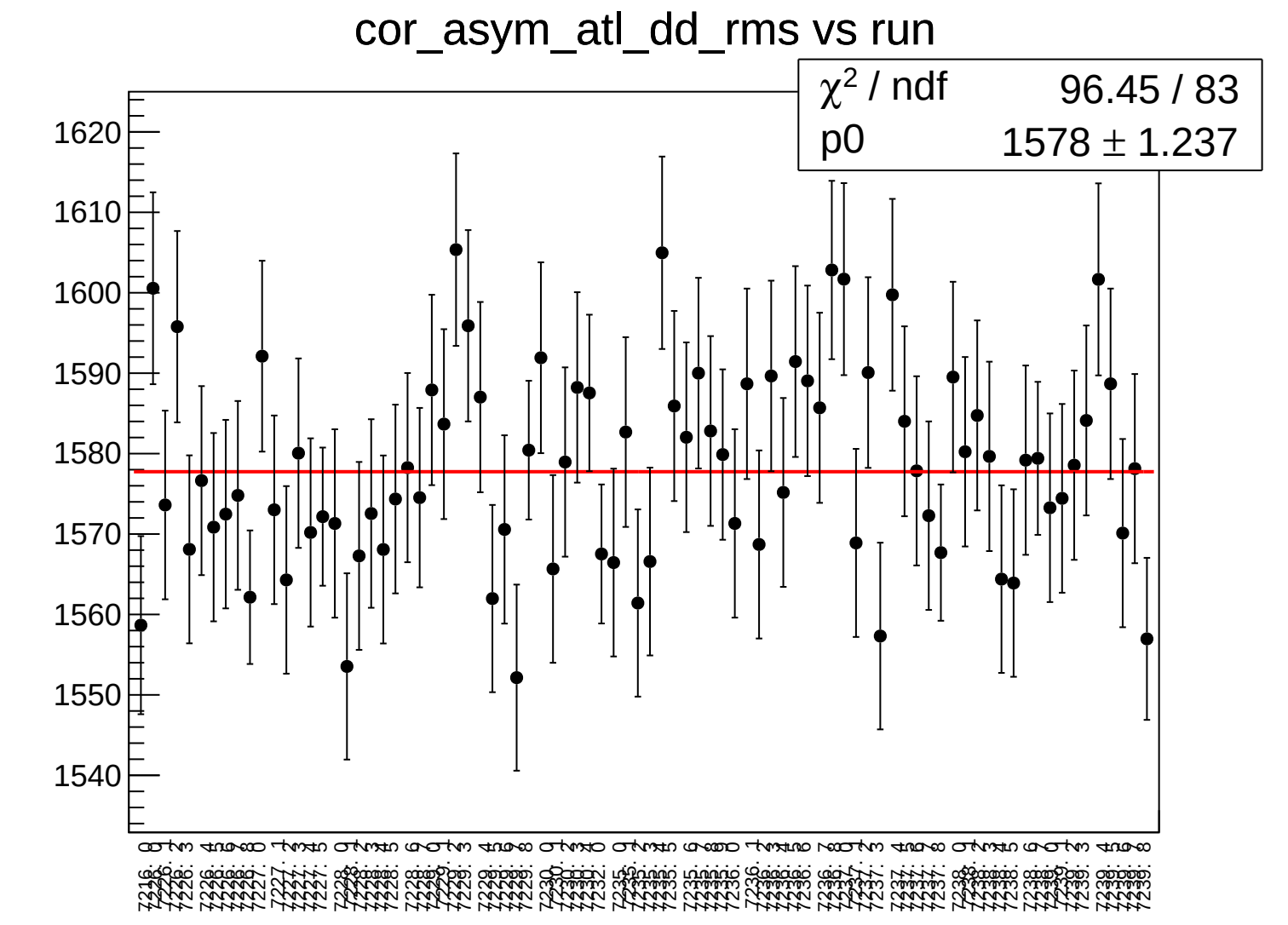

asym_atl_dd_reg_correction_mean vs run
×10^3
χ² / ndf 101.5 / 83
p0 −2760 ± 4554
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −125.5
Std Dev 0
3
2
1
0
−1
−2

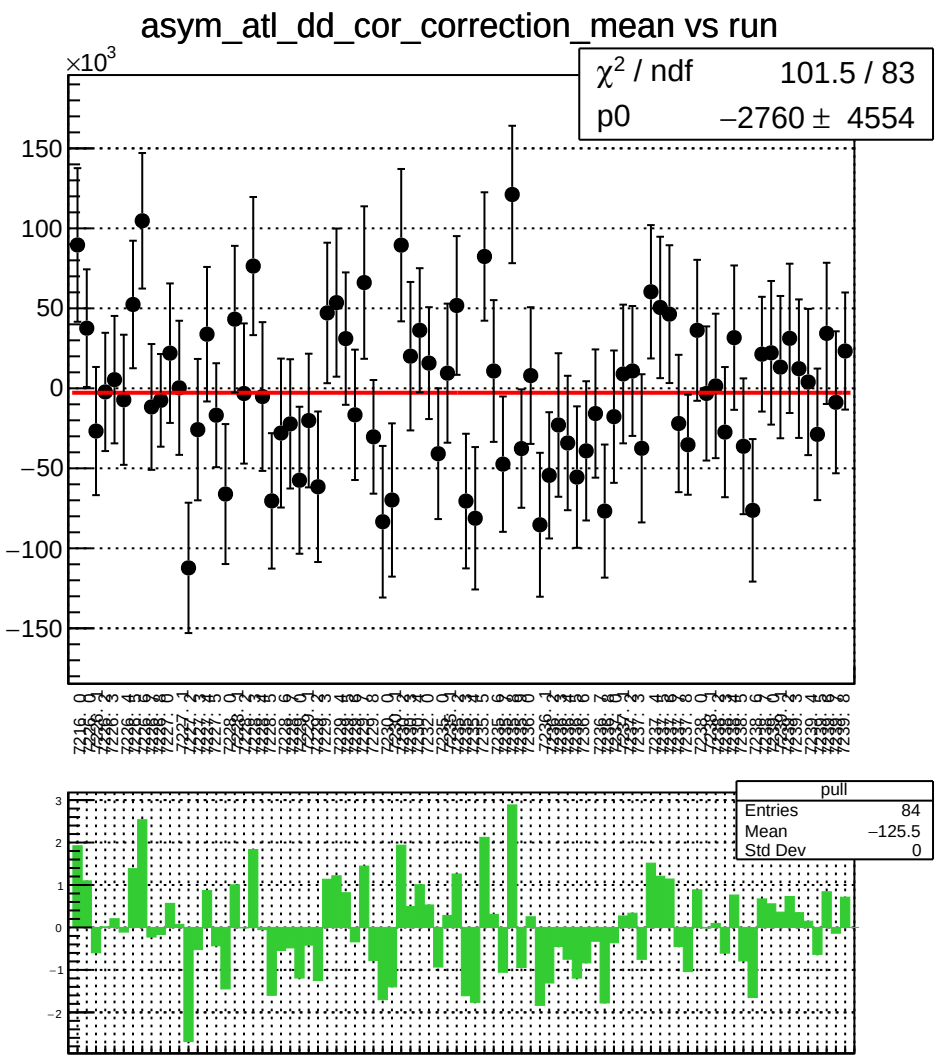

pull1D
Entries 84
Mean 0.007592
Std Dev 1.099
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

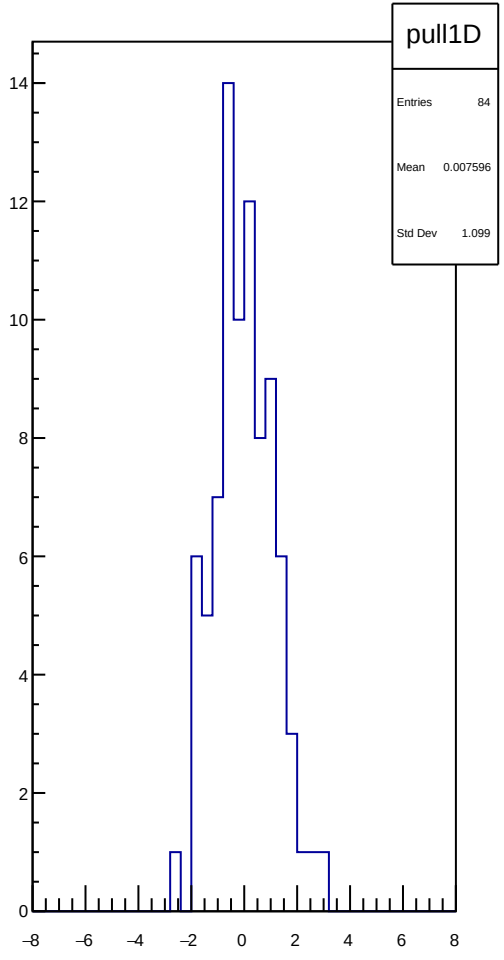

asym_atl_dd_reg_correction_rms vs run
χ² / ndf 5898 / 83
p0 4099 ± 3.22
4800
4600
4400
4200
4000
3800
3600
3400

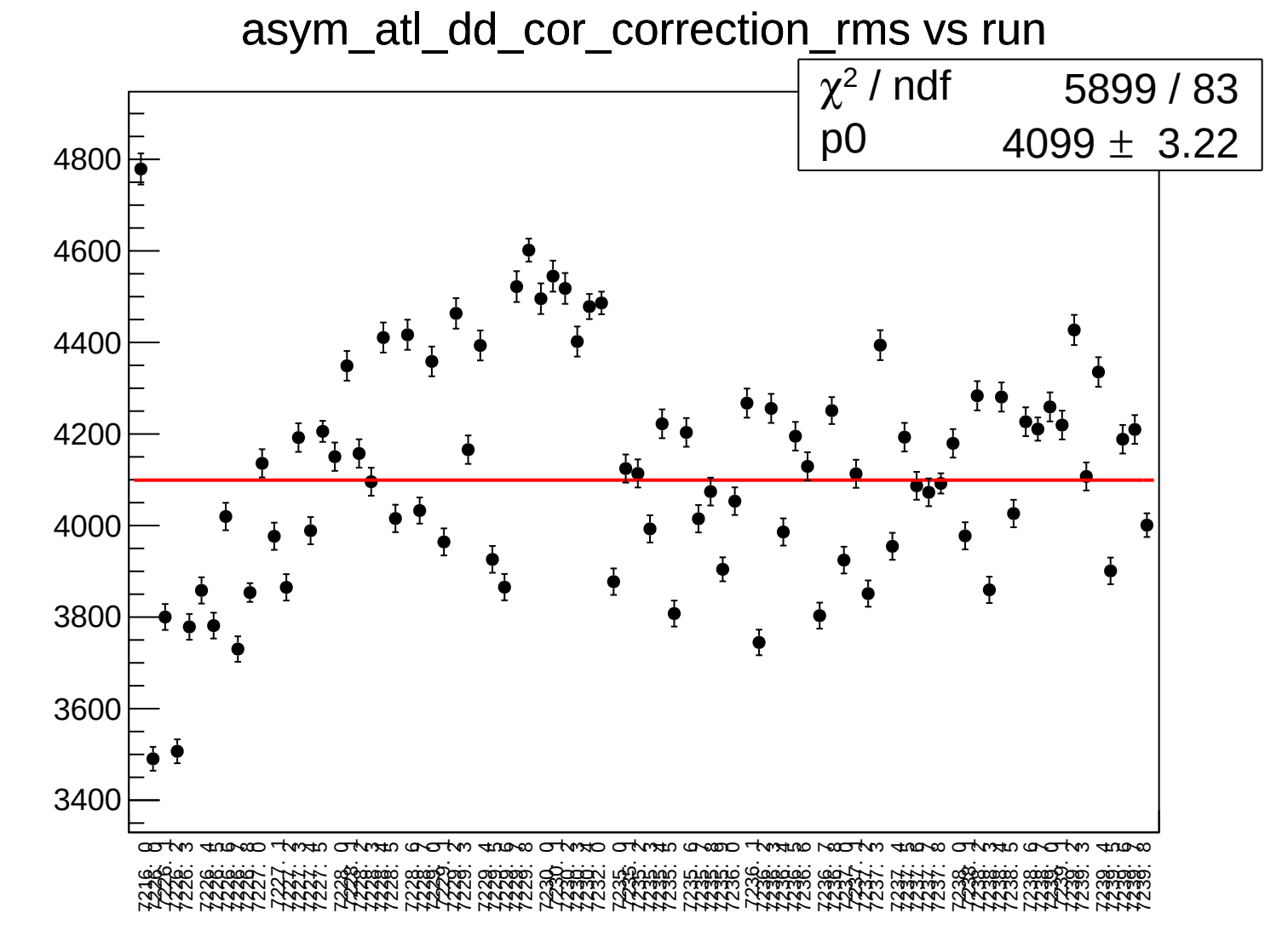

cor_asym_atl_dd_mean vs run
χ² / ndf 99.23 / 83
p0 1174 ± 1750
60000
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −54.08
Std Dev 0
2
1
0
−1
−2

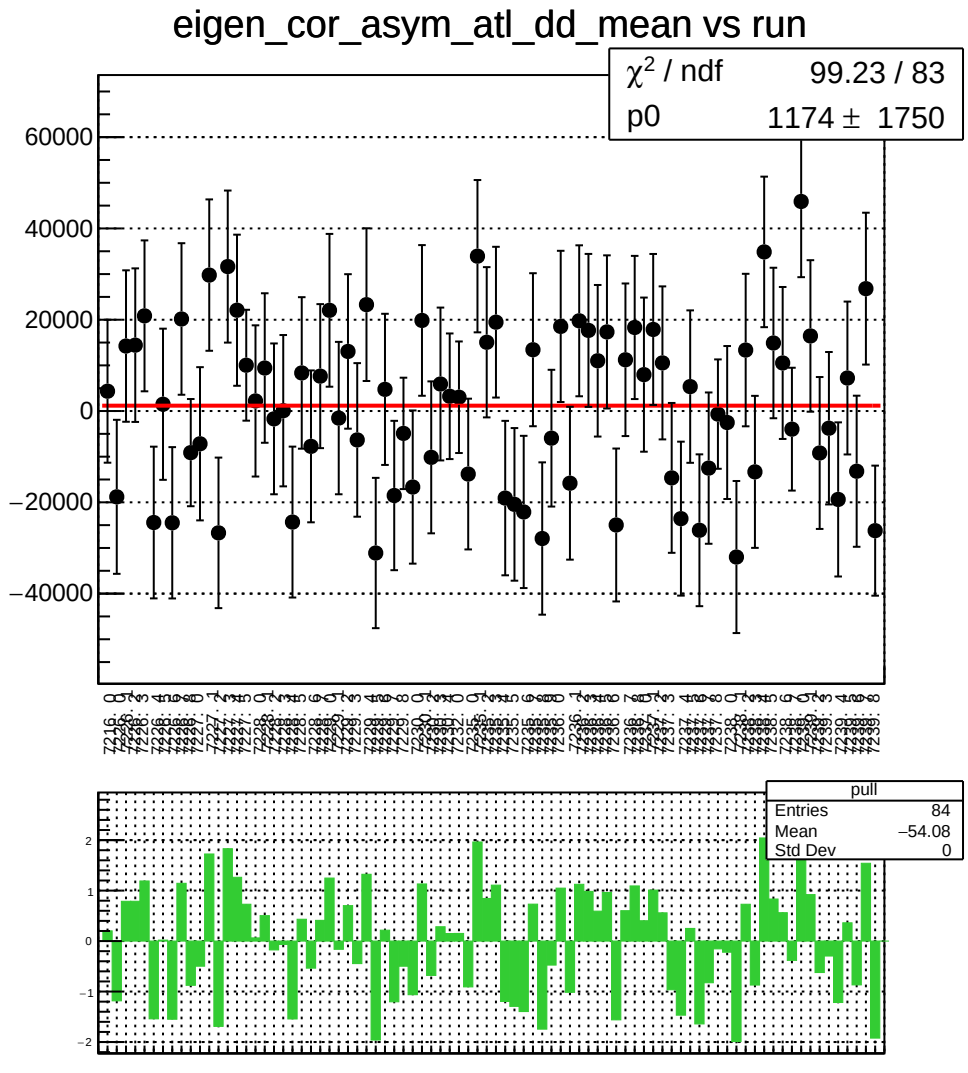

pull1D
Entries 84
Mean 0.006591
Std Dev 1.087
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

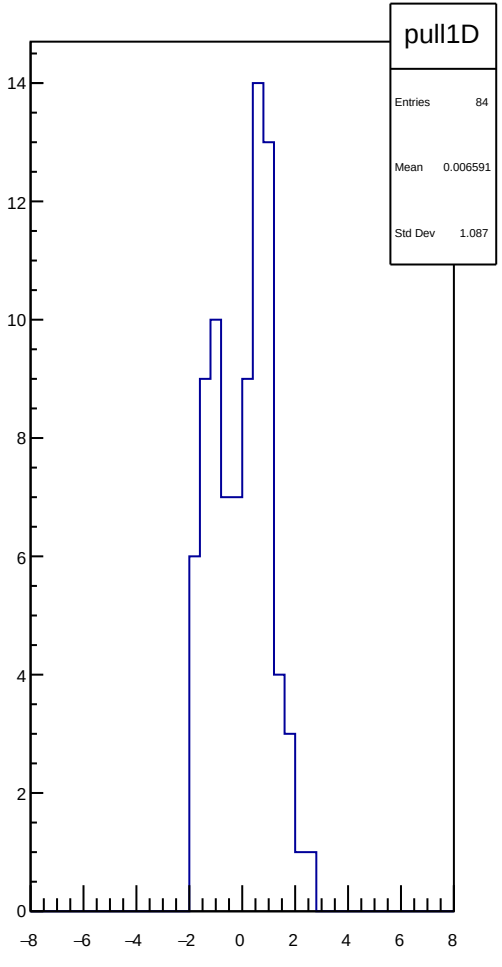

cor_asym_atl_dd_rms vs run
χ^2 / ndf 96.45 / 83
p0 1578 ± 1.237
1620
1610
1600
1590
1580
1570
1560
1550
1540

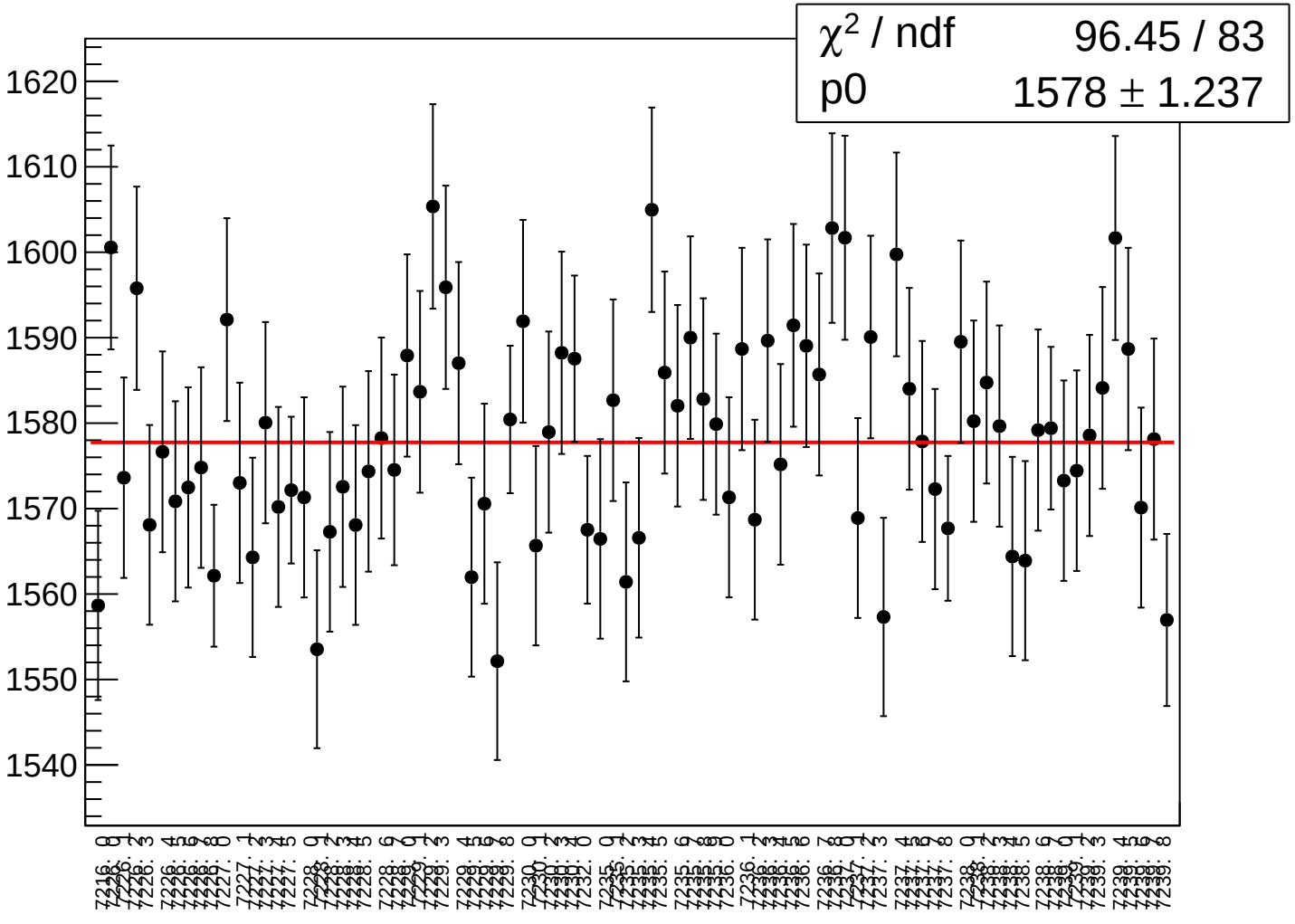

asym_atl_dd_cor_correction_mean vs run
χ² / ndf 101.5 / 83
p0 −2760 ± 4554
×10³
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −125.5
Std Dev 0
3
2
1
0
−1
−2

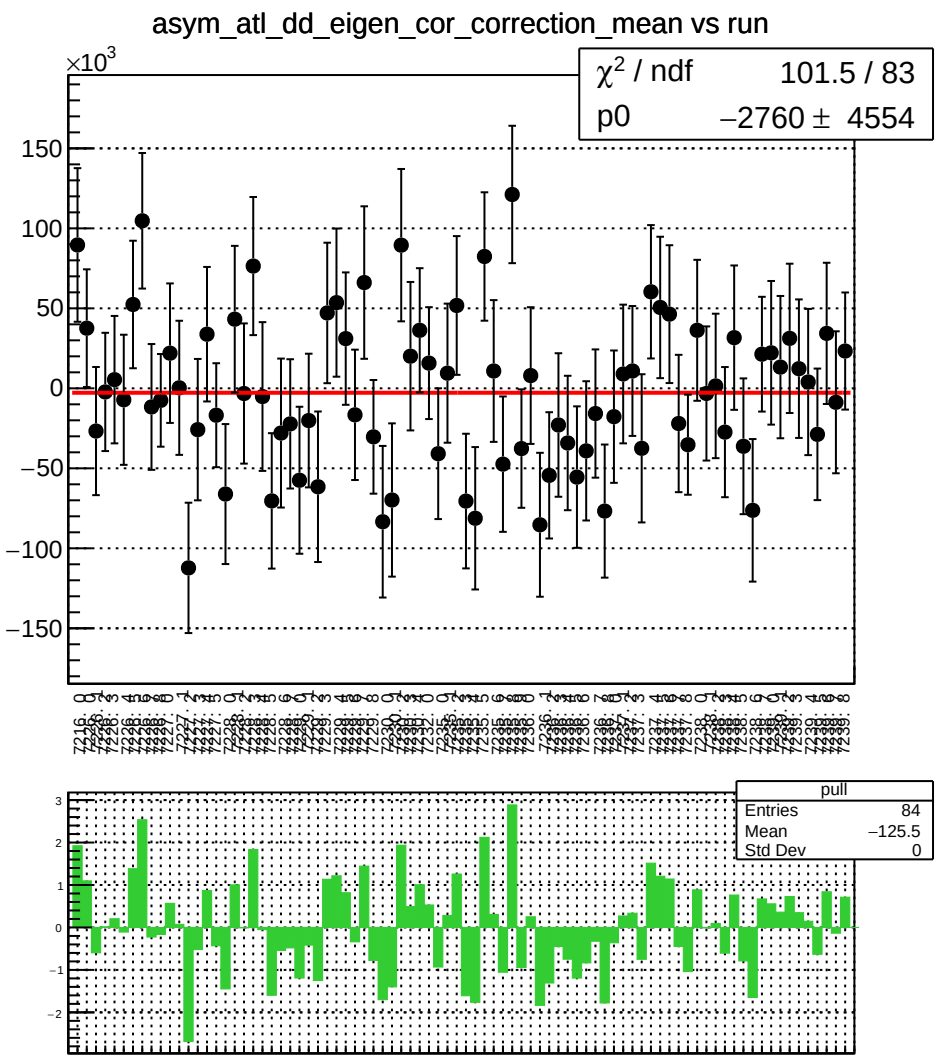

pull1D
Entries 84
Mean 0.007596
Std Dev 1.099
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

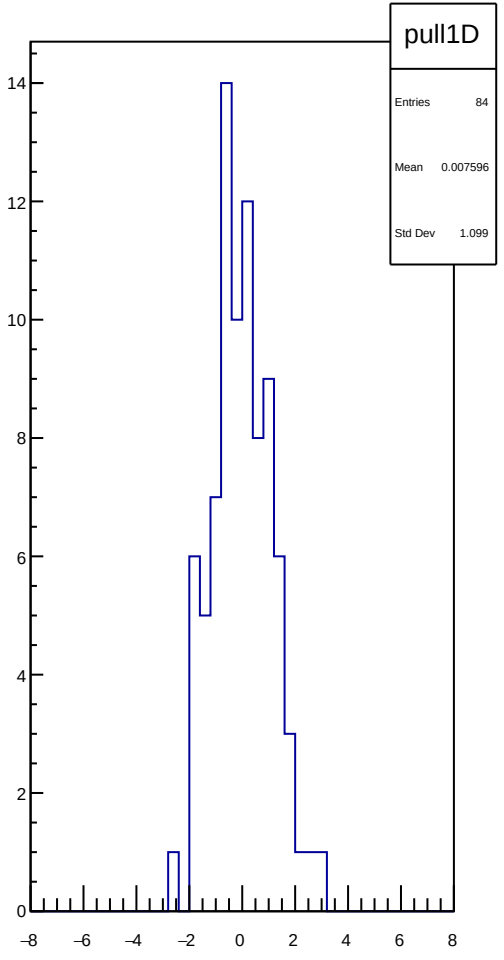

asym_atl_dd_cor_correction_rms vs run
χ² / ndf 5899 / 83
p0 4099 ± 3.22
4800
4600
4400
4200
4000
3800
3600
3400

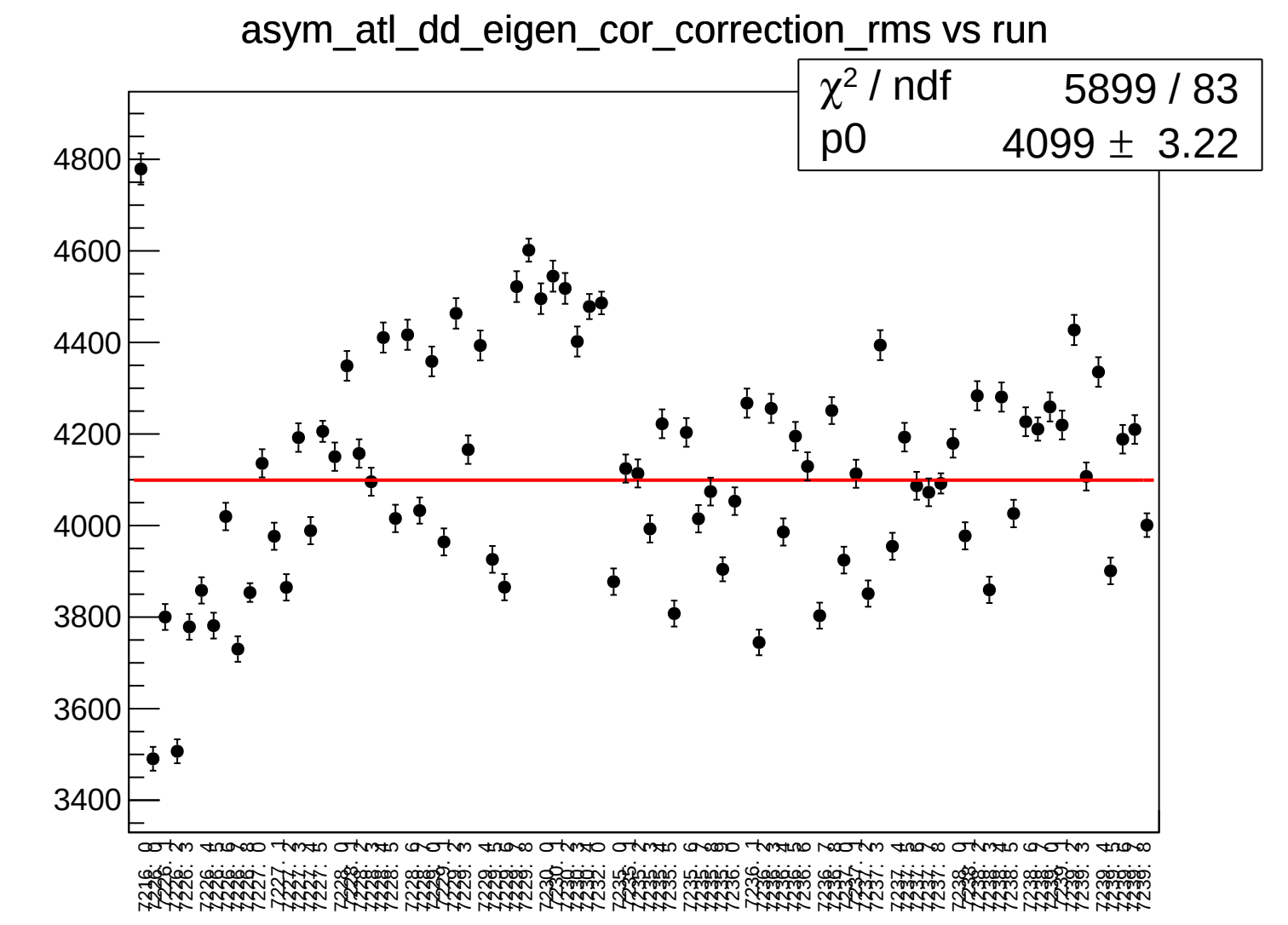

eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 99.23 / 83
p0 1174 ± 1750
60000
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −54.08
Std Dev 0
2
1
0
−1
−2

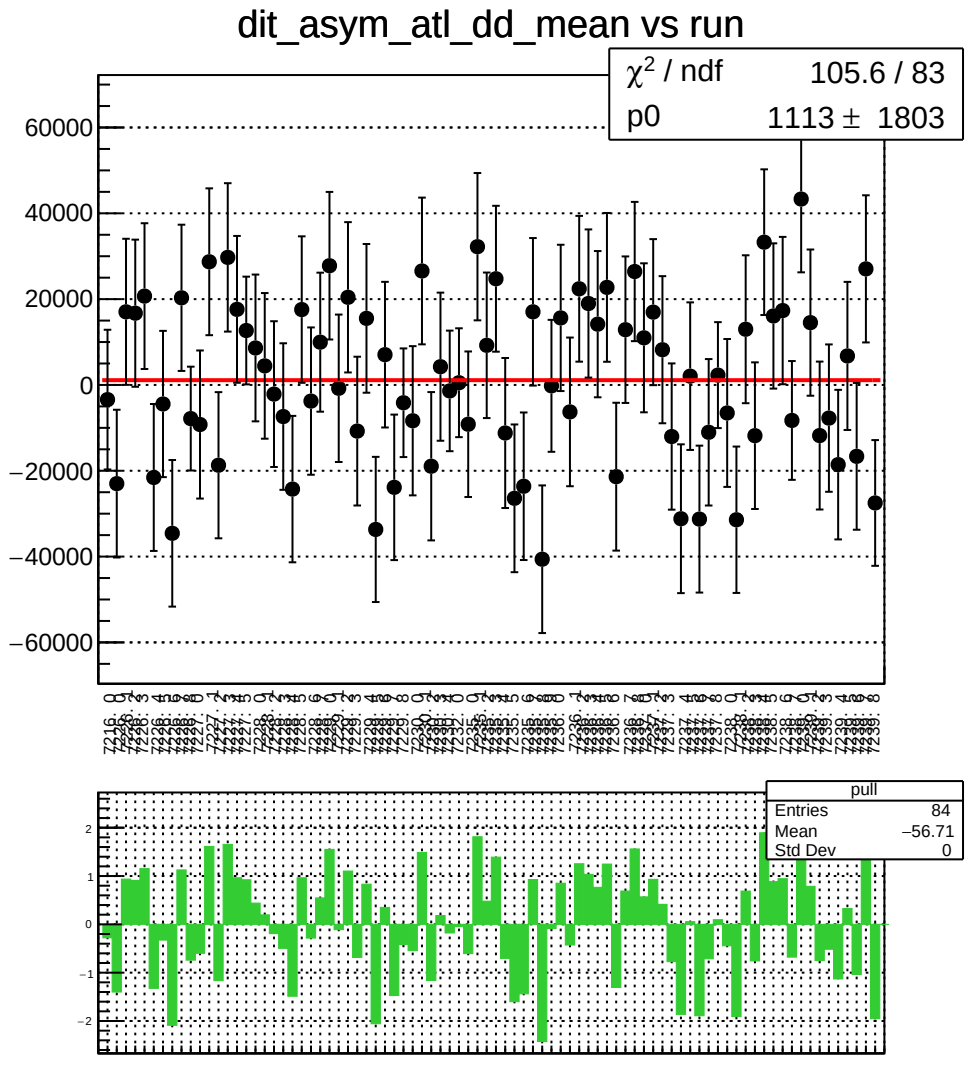

pull1D
Entries 84
Mean 0.006591
Std Dev 1.087
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

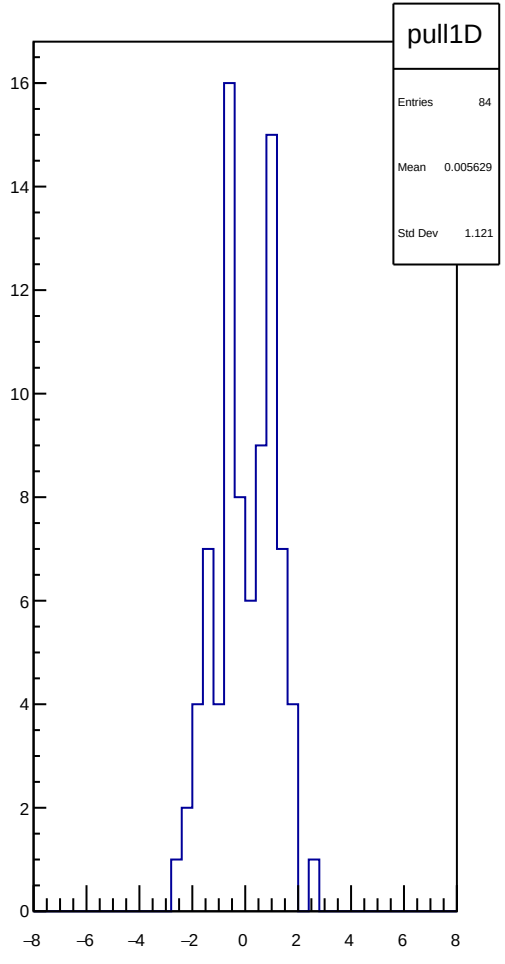

eigen_cor_asym_atl_dd_rms vs run
χ² / ndf 96.45 / 83
p0 1578 ± 1.237
1620
1610
1600
1590
1580
1570
1560
1550
1540

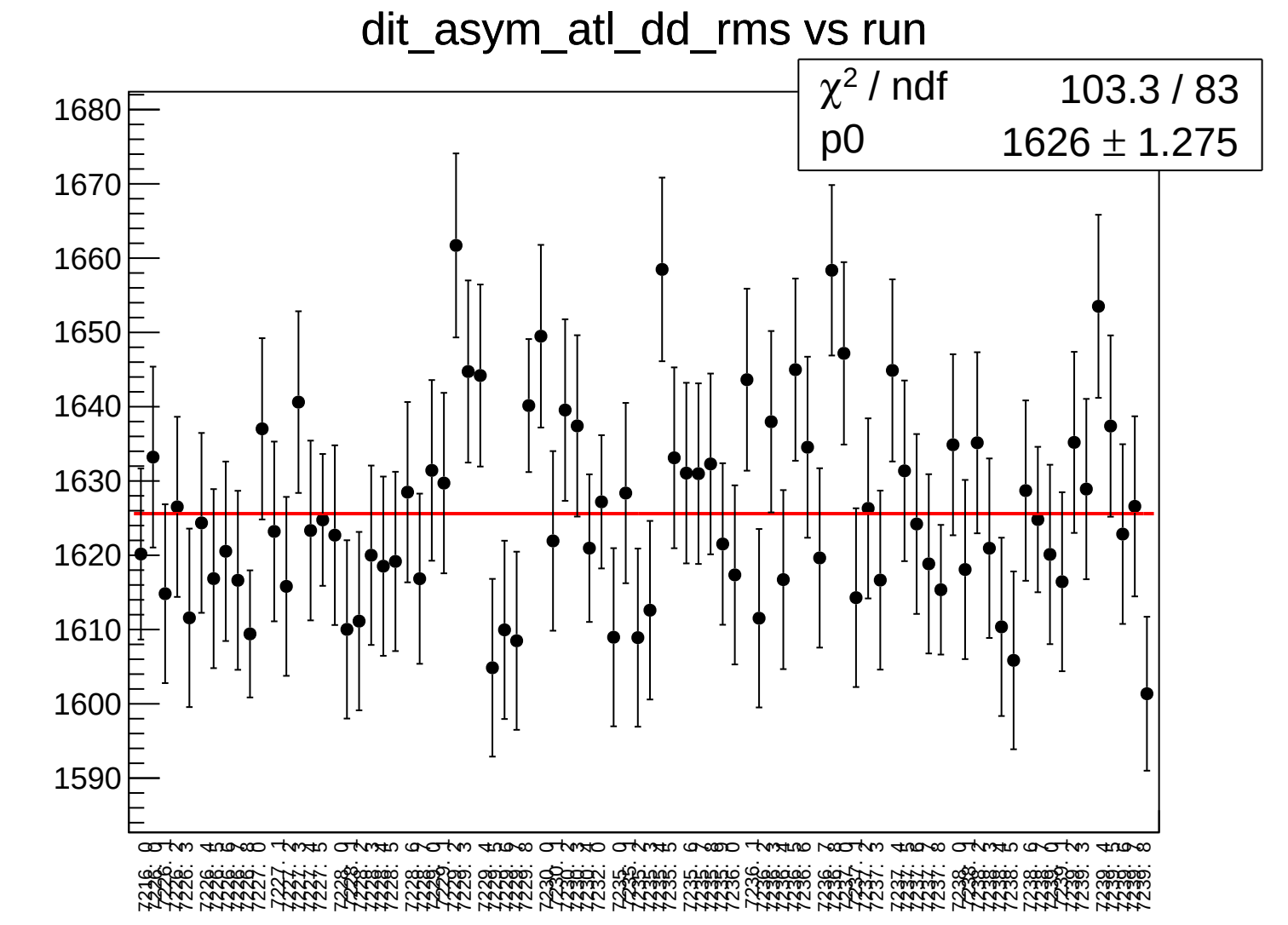

asym_atl_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 101.5 / 83
p0 −2760 ± 4554
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −125.5
Std Dev 0
3
2
1
0
−1
−2

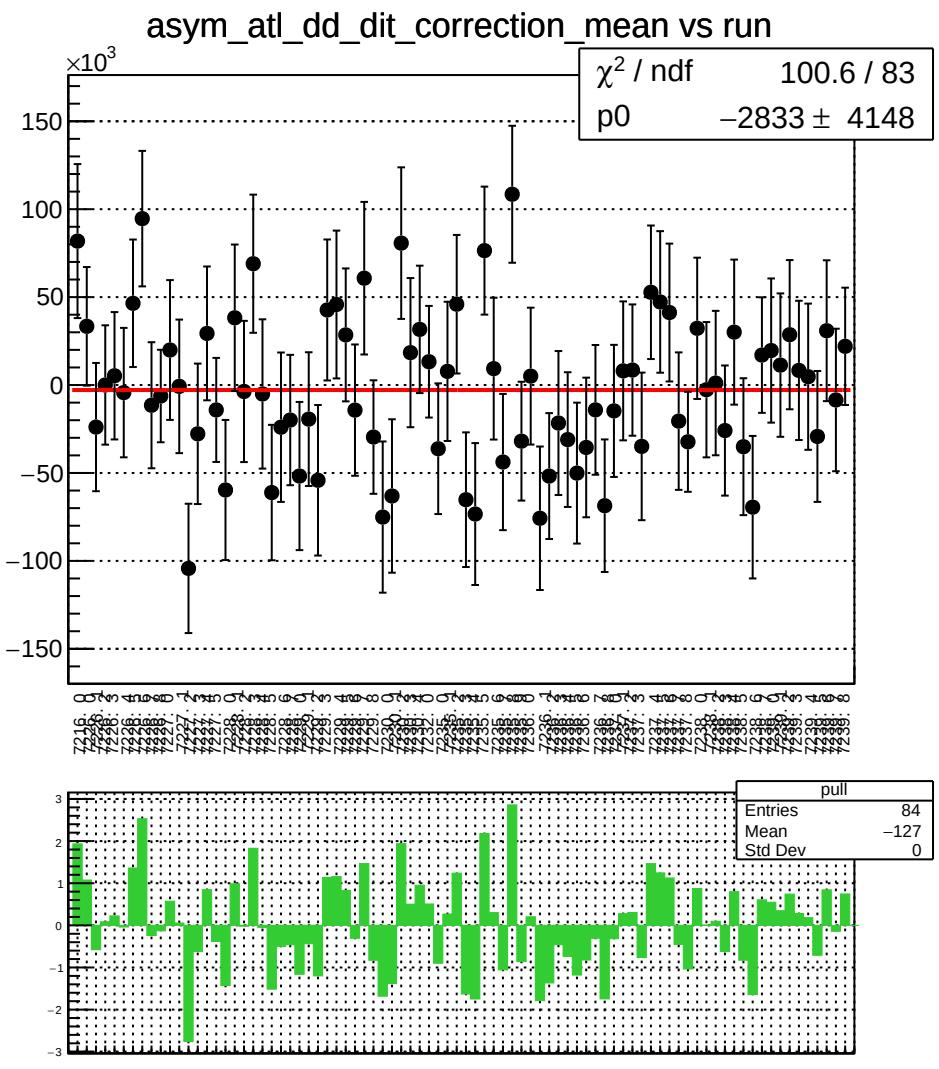

pull1D
Entries 84
Mean 0.007596
Std Dev 1.099
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

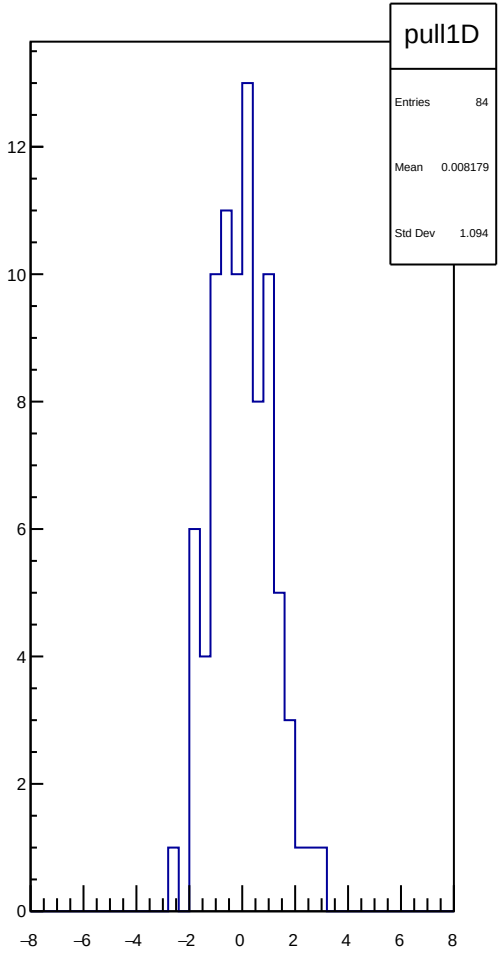

asym_atl_dd_eigen_cor_correction_rms vs run
χ² / ndf 5899 / 83
p0 4099 ± 3.22
4800
4600
4400
4200
4000
3800
3600
3400

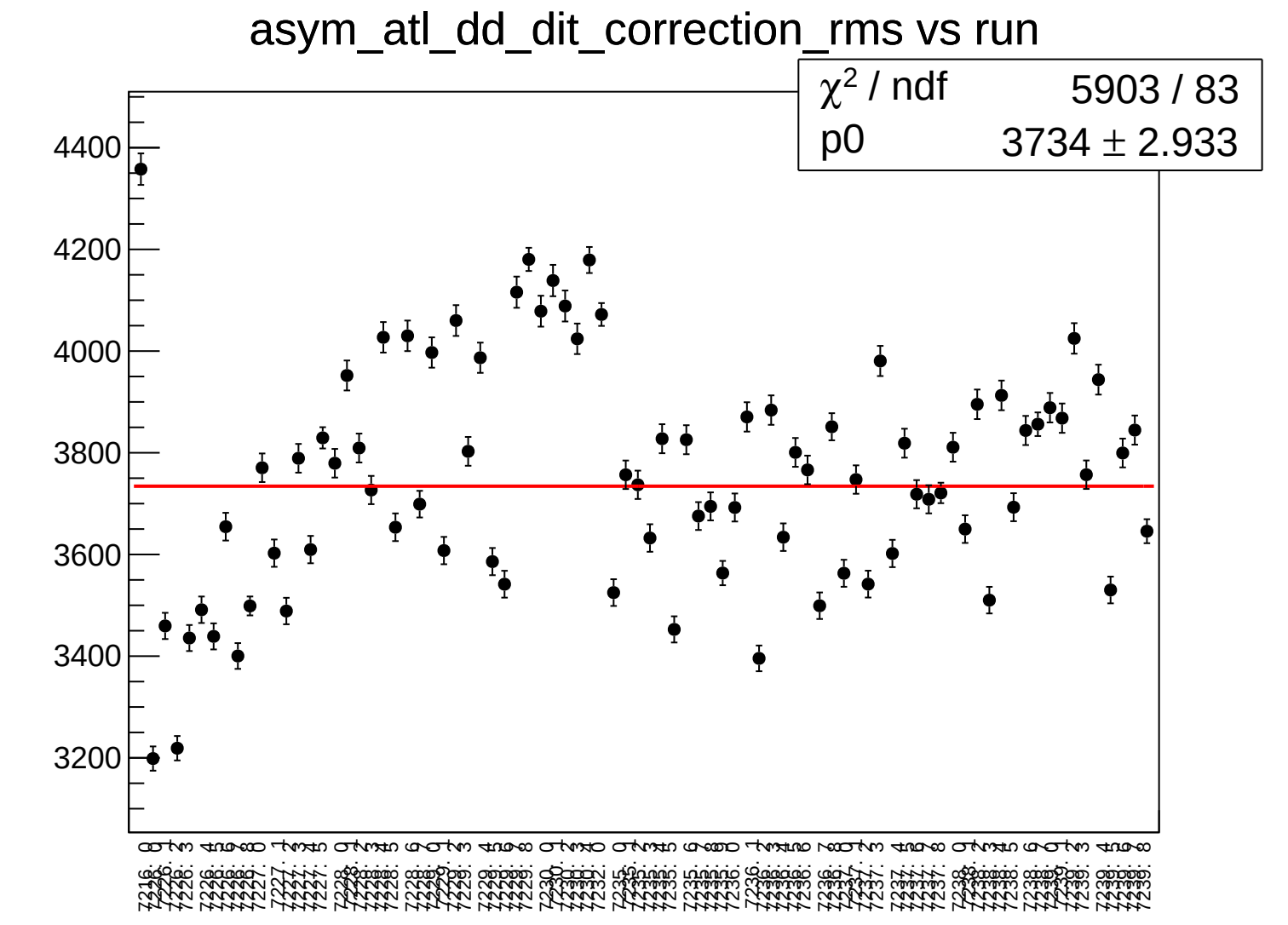

dit_asym_atl_dd_mean vs run
χ² / ndf 105.6 / 83
p0 1113 ± 1803
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −56.71
Std Dev 0
2
1
0
−1
−2

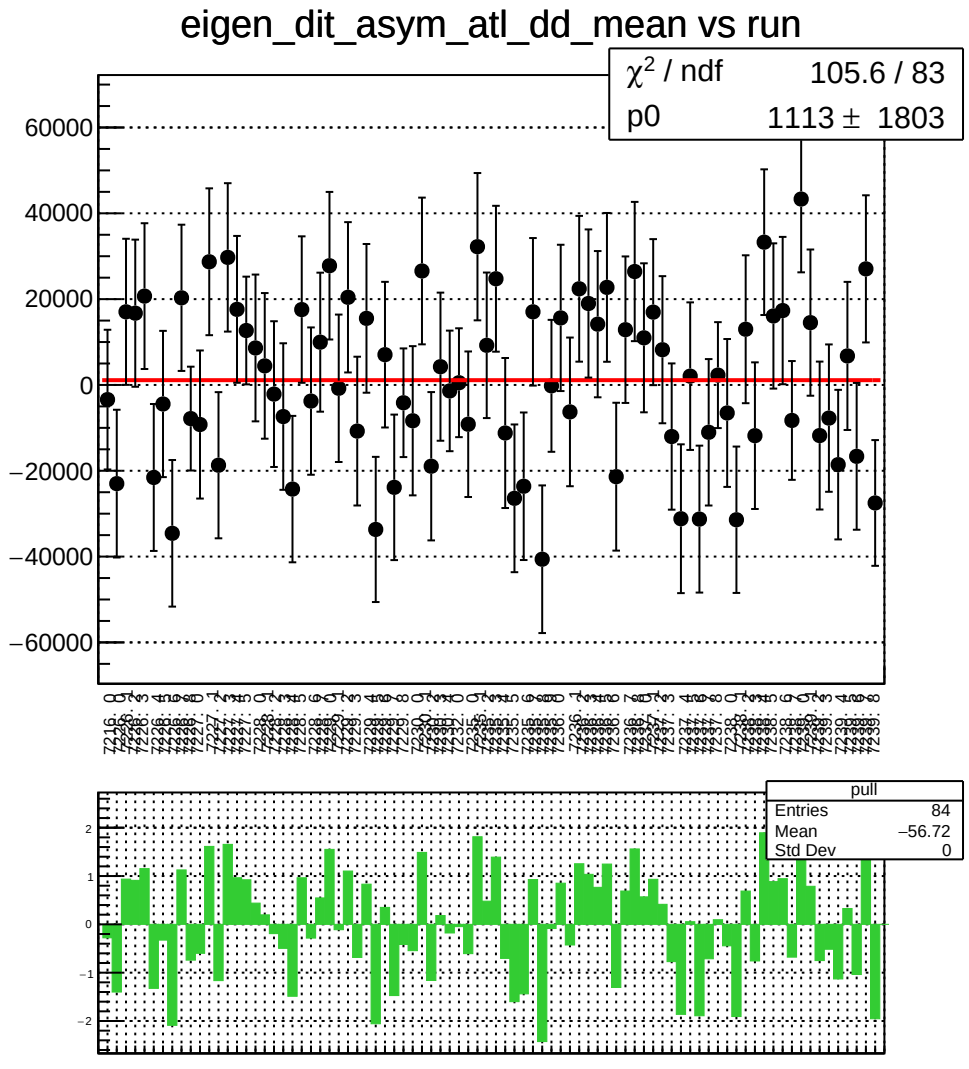

pull1D
Entries 84
Mean 0.005629
Std Dev 1.121
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

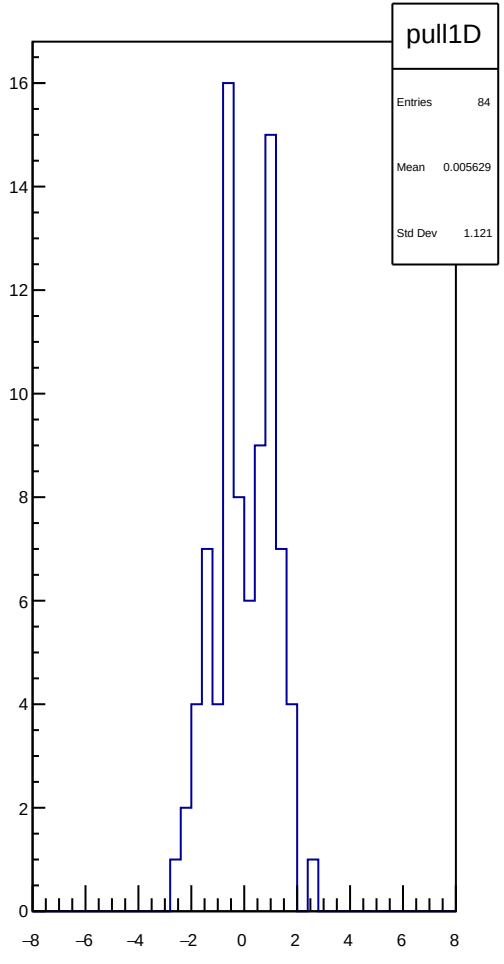

dit_asym_atl_dd_rms vs run
χ² / ndf 103.3 / 83
p0 1626 ± 1.275
1680
1670
1660
1650
1640
1630
1620
1610
1600
1590

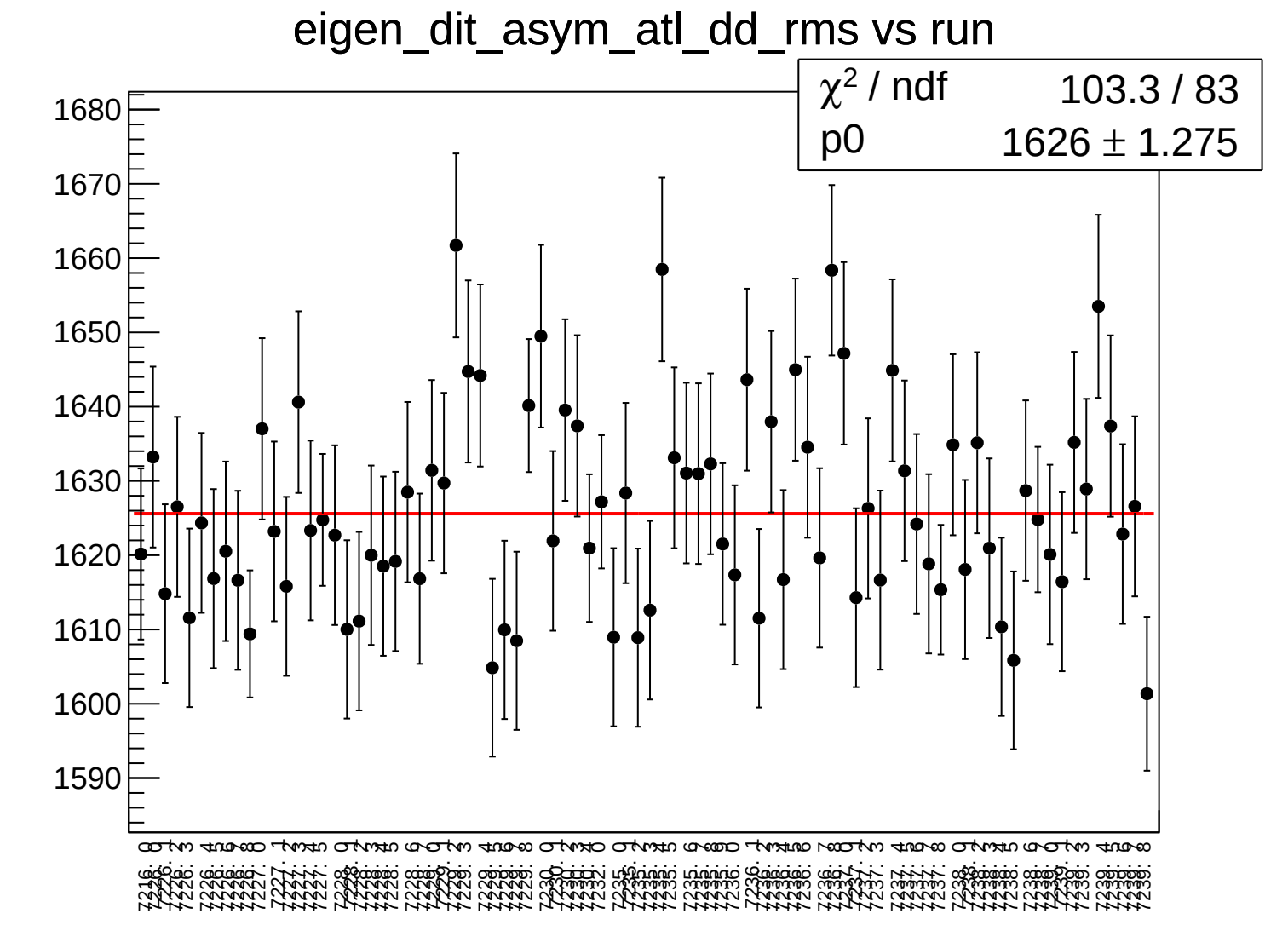

asym_atl_dd_dit_correction_mean vs run
×10^3
χ² / ndf 100.6 / 83
p0 −2833 ± 4148
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −127
Std Dev 0
3
2
1
0
−1
−2
−3

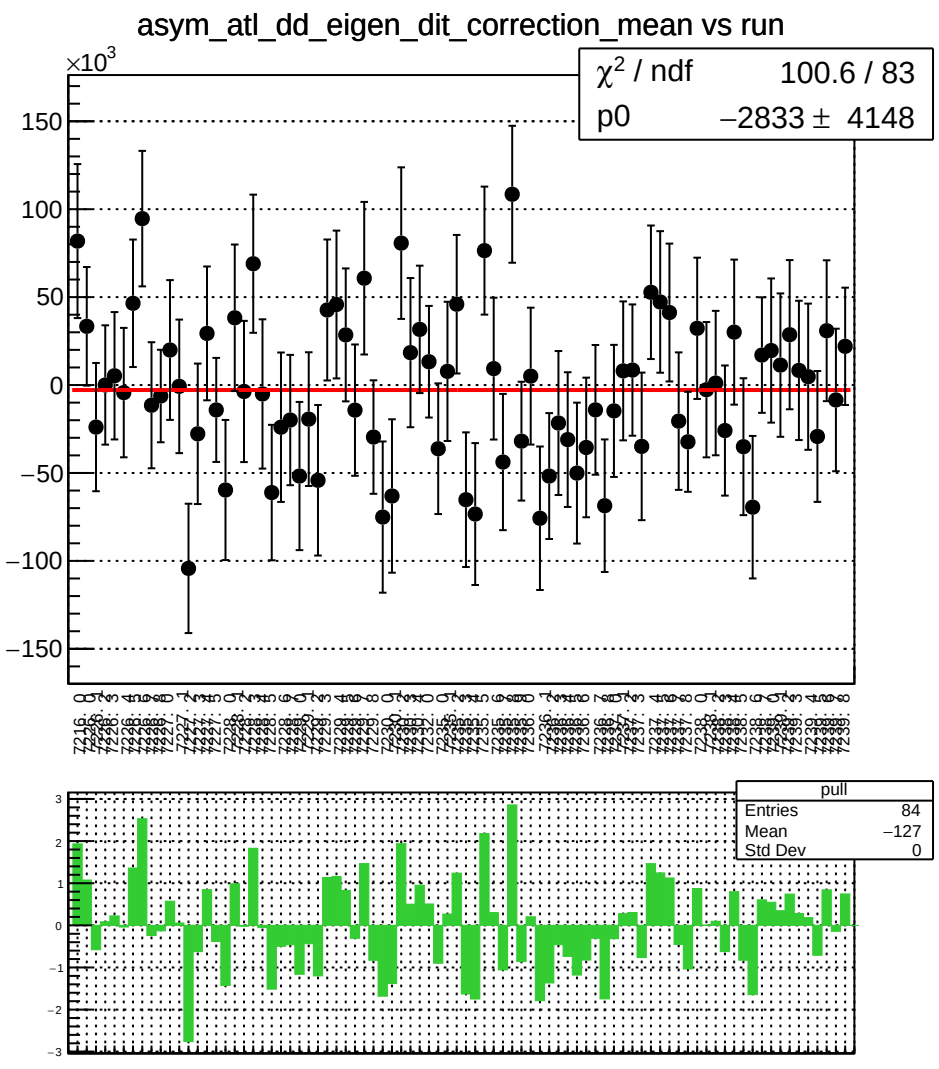

pull1D
Entries 84
Mean 0.008179
Std Dev 1.094
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

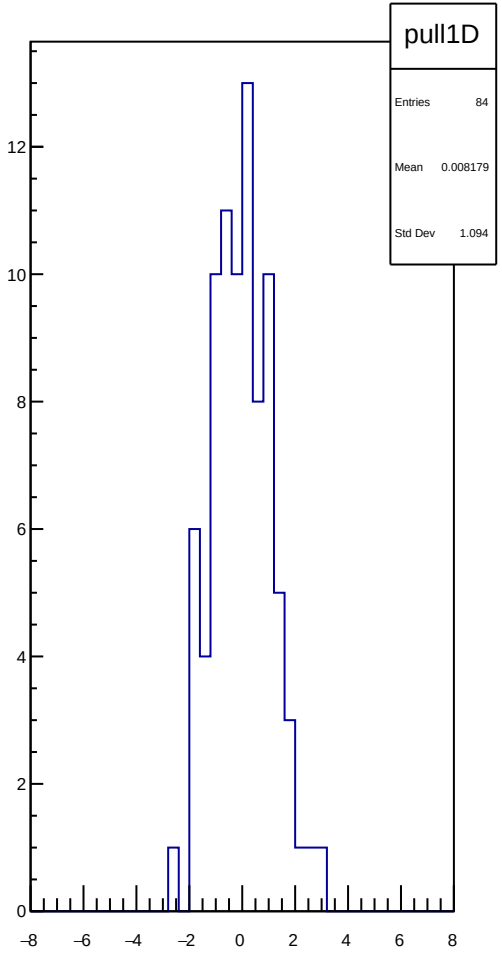

asym_atl_dd_dit_correction_rms vs run
χ² / ndf 5903 / 83
p0 3734 ± 2.933
4400
4200
4000
3800
3600
3400
3200

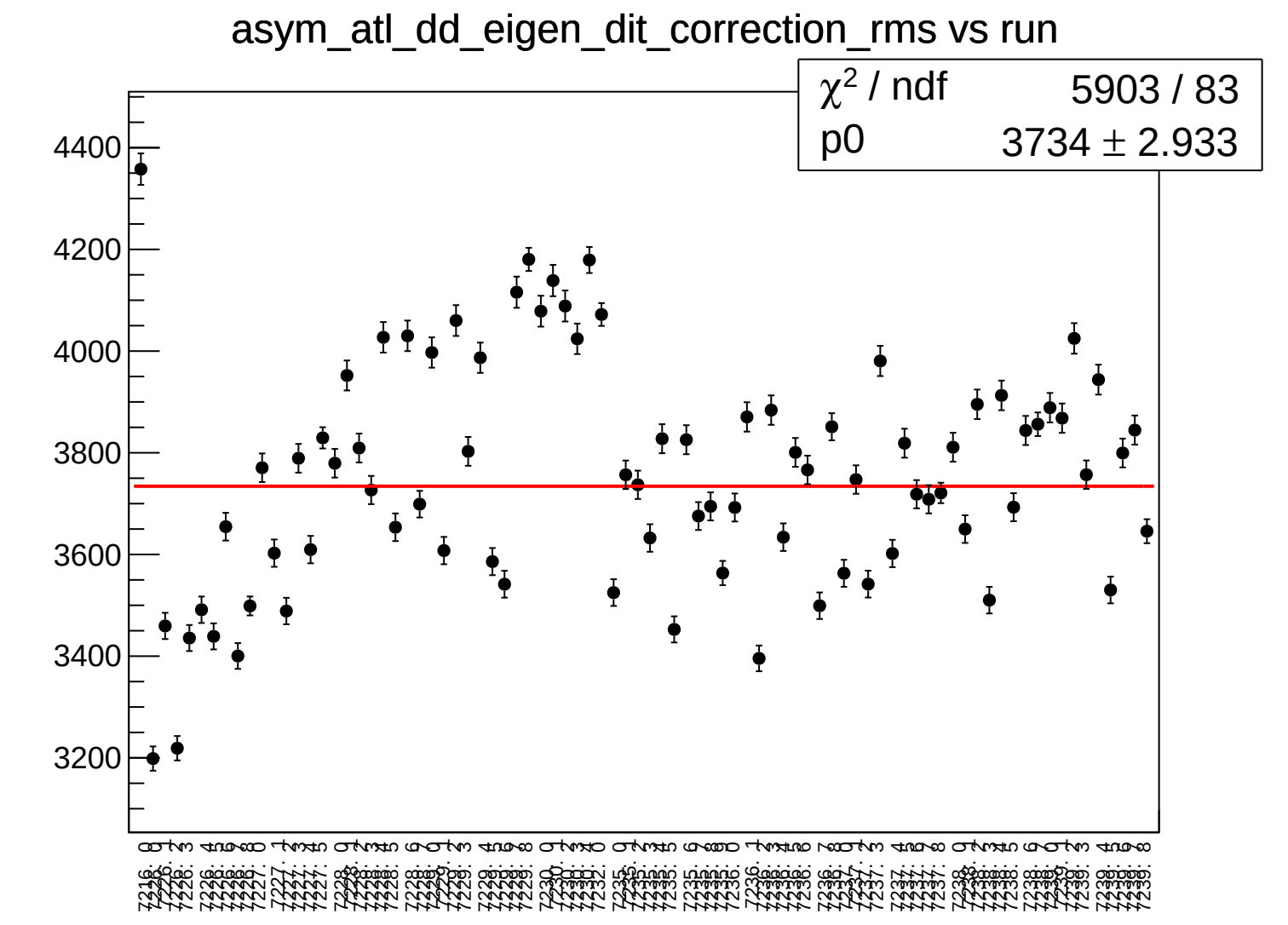

eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 105.6 / 83
p0 1113 ± 1803
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −56.72
Std Dev 0
2
1
0
−1
−2

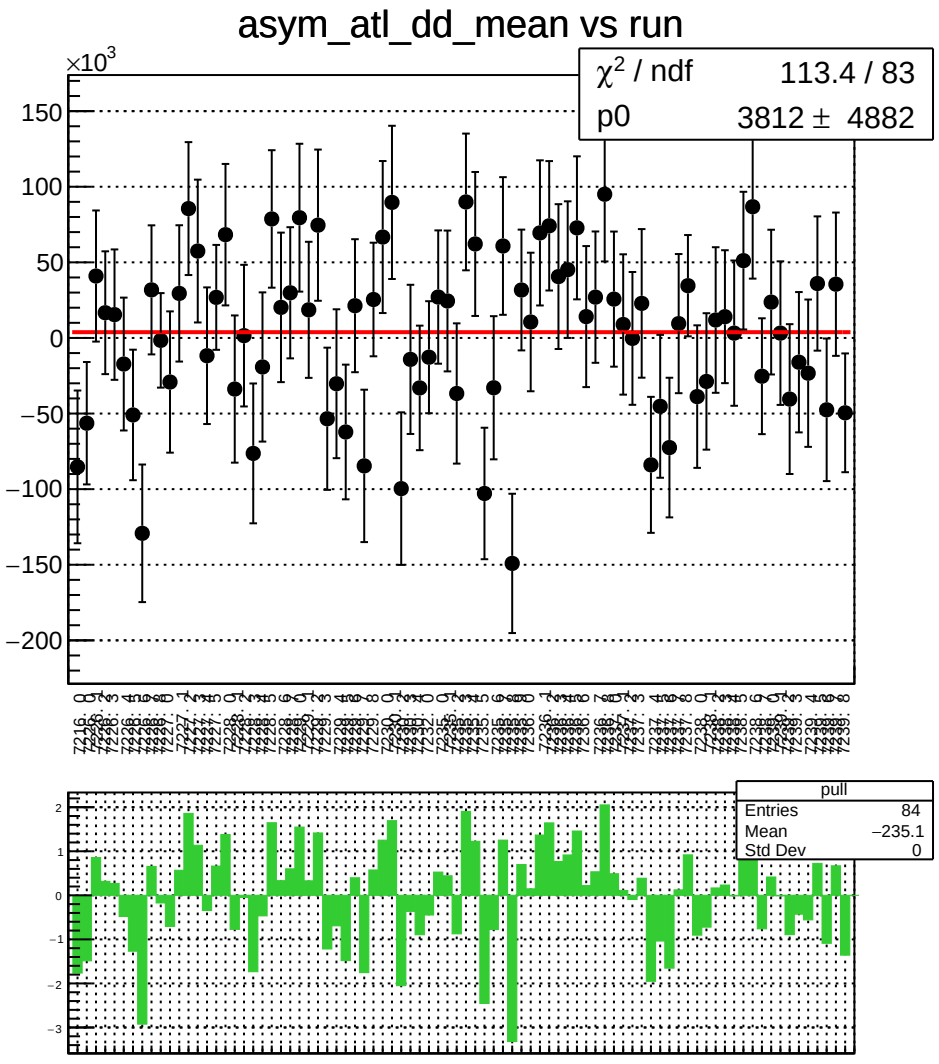

pull1D
Entries 84
Mean 0.005629
Std Dev 1.121
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

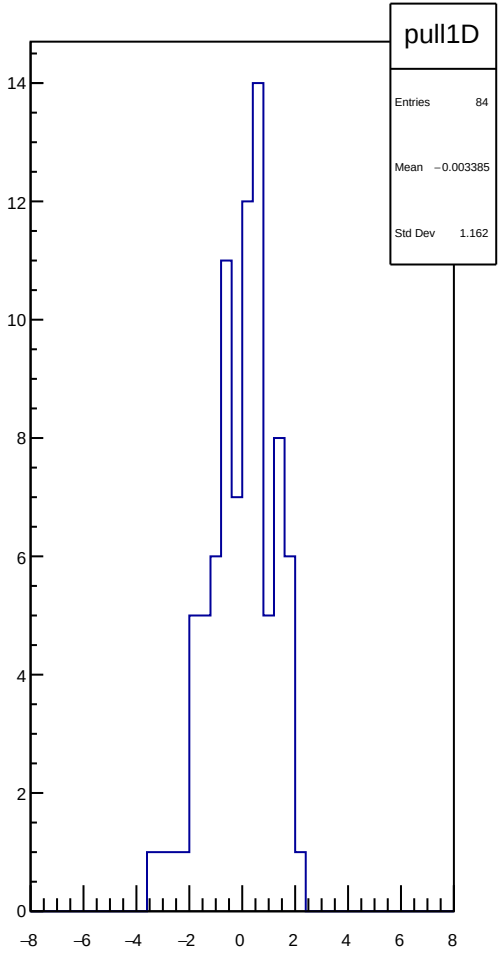

eigen_dit_asym_atl_dd_rms vs run
χ^2 / ndf 103.3 / 83
p0 1626 ± 1.275
1680
1670
1660
1650
1640
1630
1620
1610
1600
1590

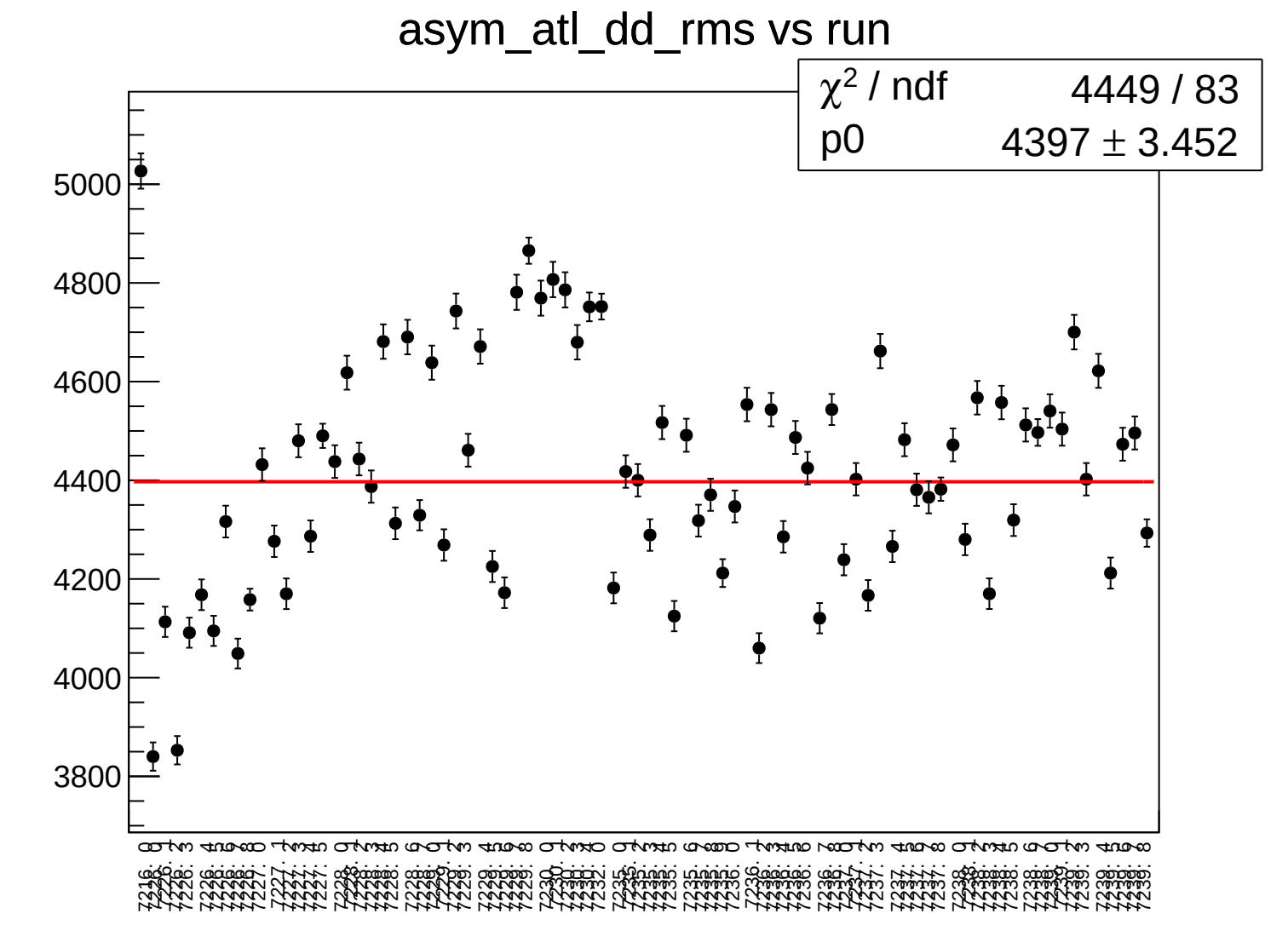

asym_atl_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 100.6 / 83
p0 −2833 ± 4148
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −127
Std Dev 0
3
2
1
0
−1
−2
−3

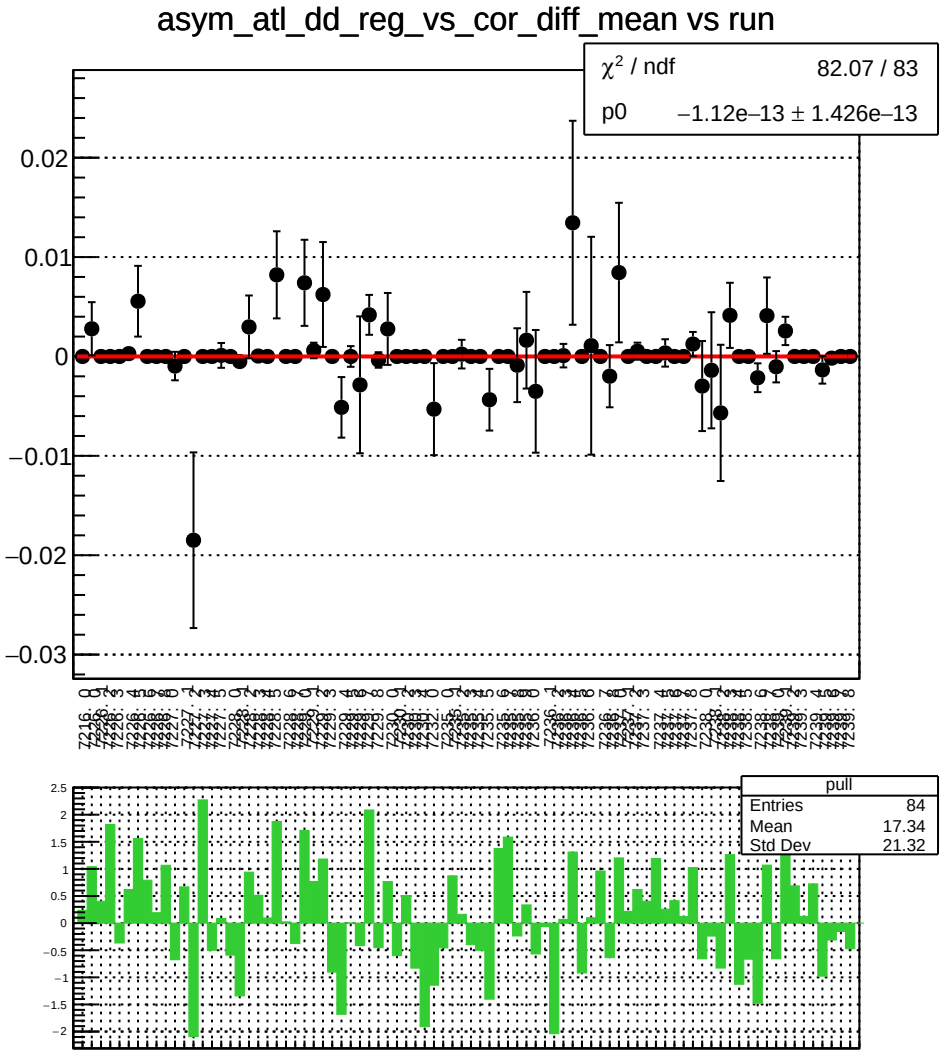

pull1D
Entries 84
Mean 0.008179
Std Dev 1.094
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

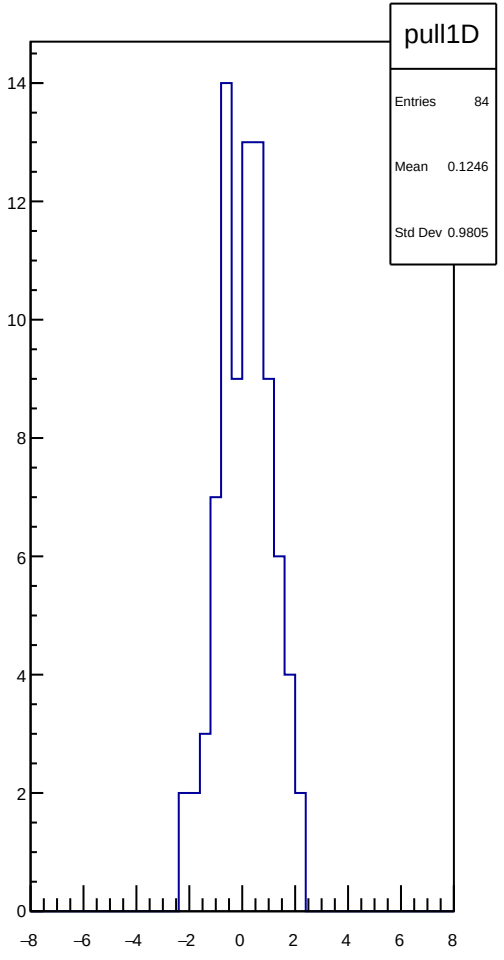

asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 5903 / 83
p0 3734 ± 2.933
4400
4200
4000
3800
3600
3400
3200

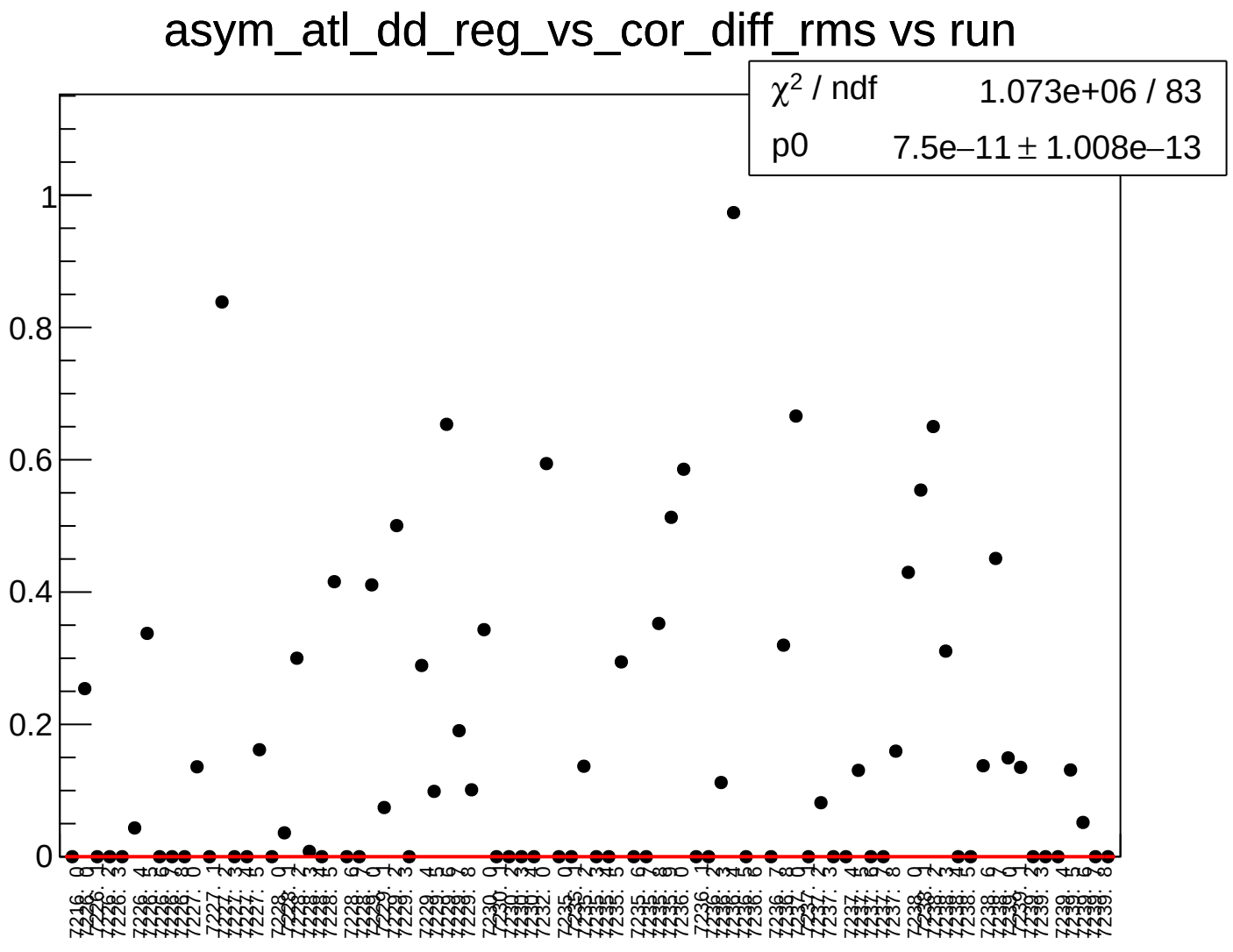

asym_atl_dd_mean vs run
×10^3
χ² / ndf 113.4 / 83
p0 3812 ± 4882
150
100
50
0
−50
−100
−150
−200
pull
Entries 84
Mean −235.1
Std Dev 0
2
1
0
−1
−2
−3

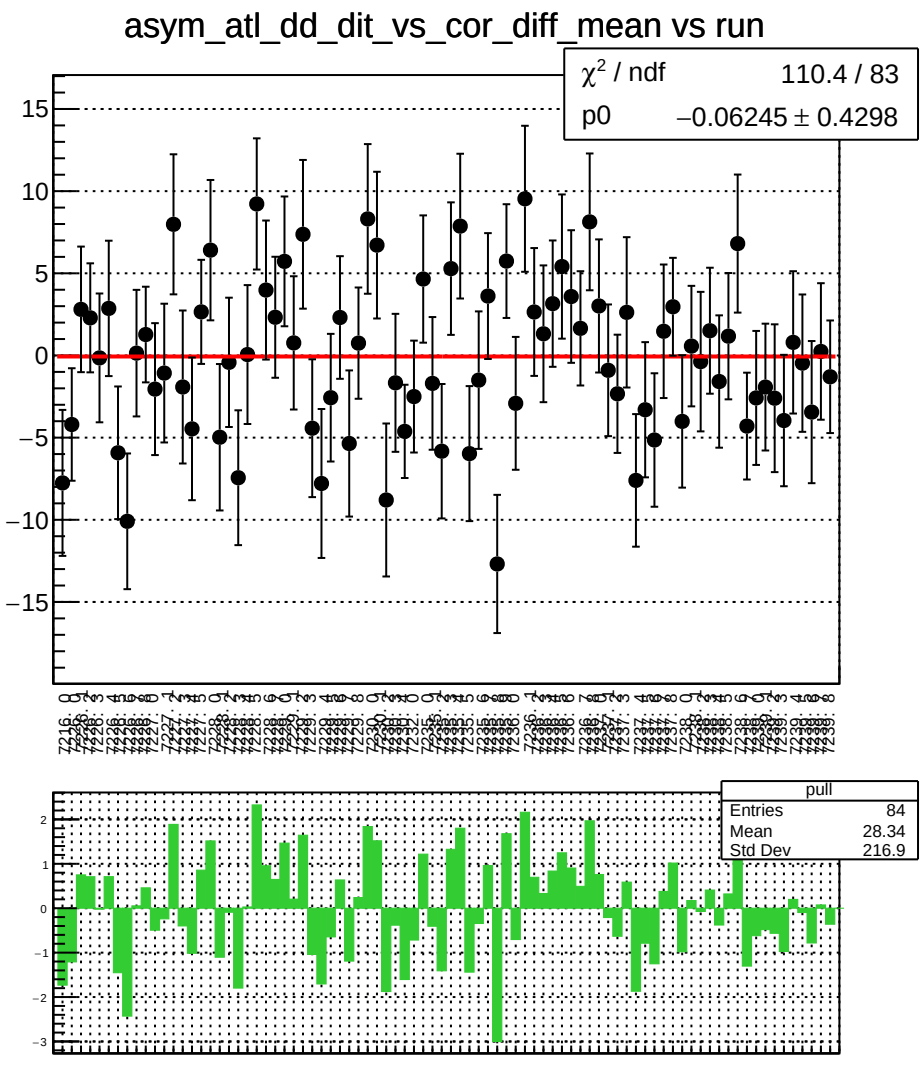

pull1D
Entries 84
Mean −0.003385
Std Dev 1.162
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

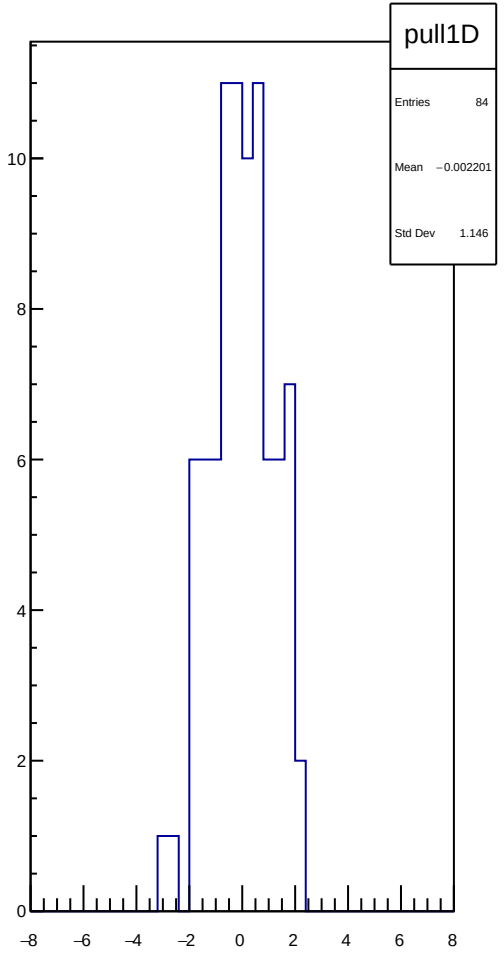

asym_atl_dd_rms vs run
χ² / ndf 4449 / 83
p0 4397 ± 3.452
5000
4800
4600
4400
4200
4000
3800

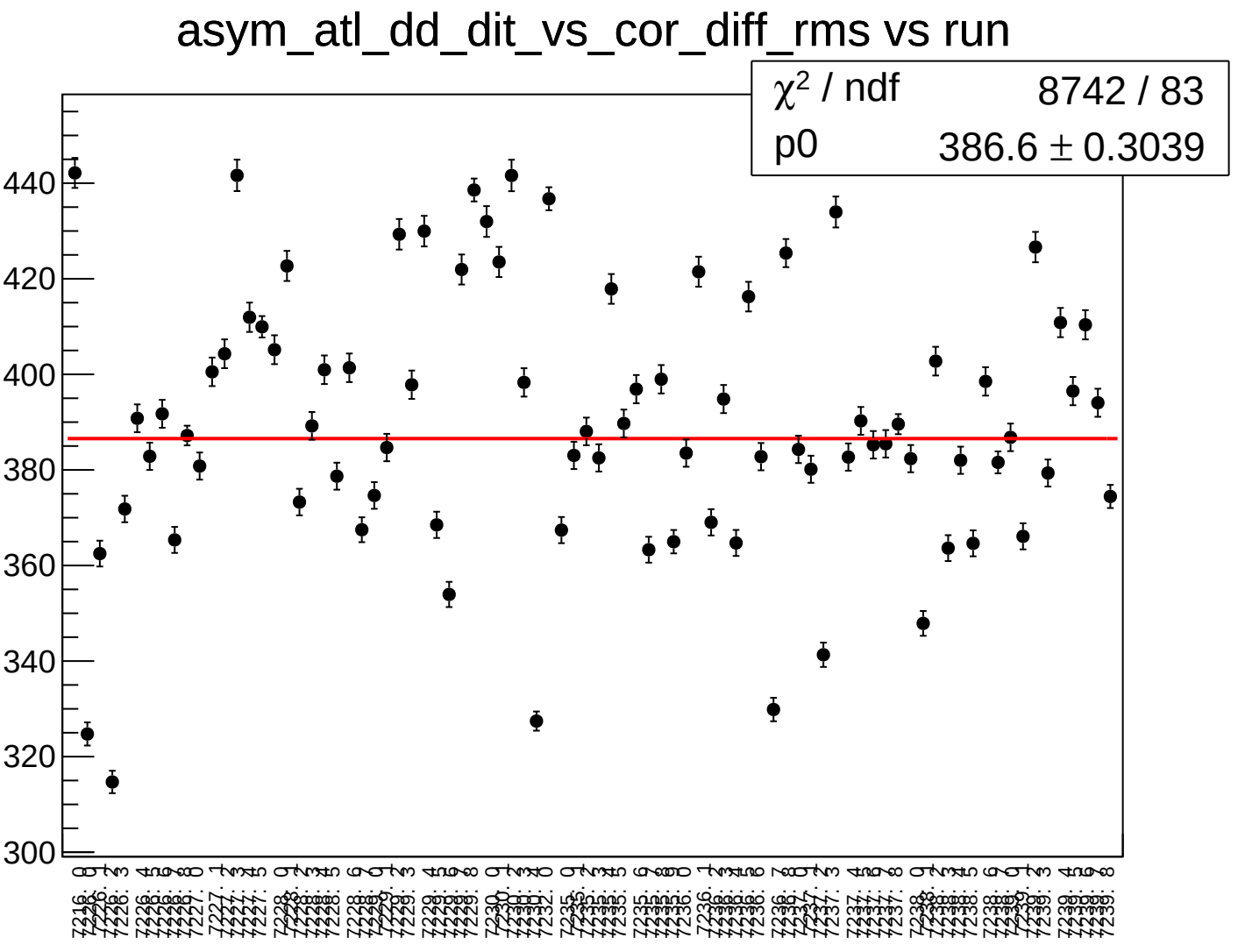

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 82.07 / 83
p0 −1.12e−13 ± 1.426e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 84
Mean 17.34
Std Dev 21.32
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

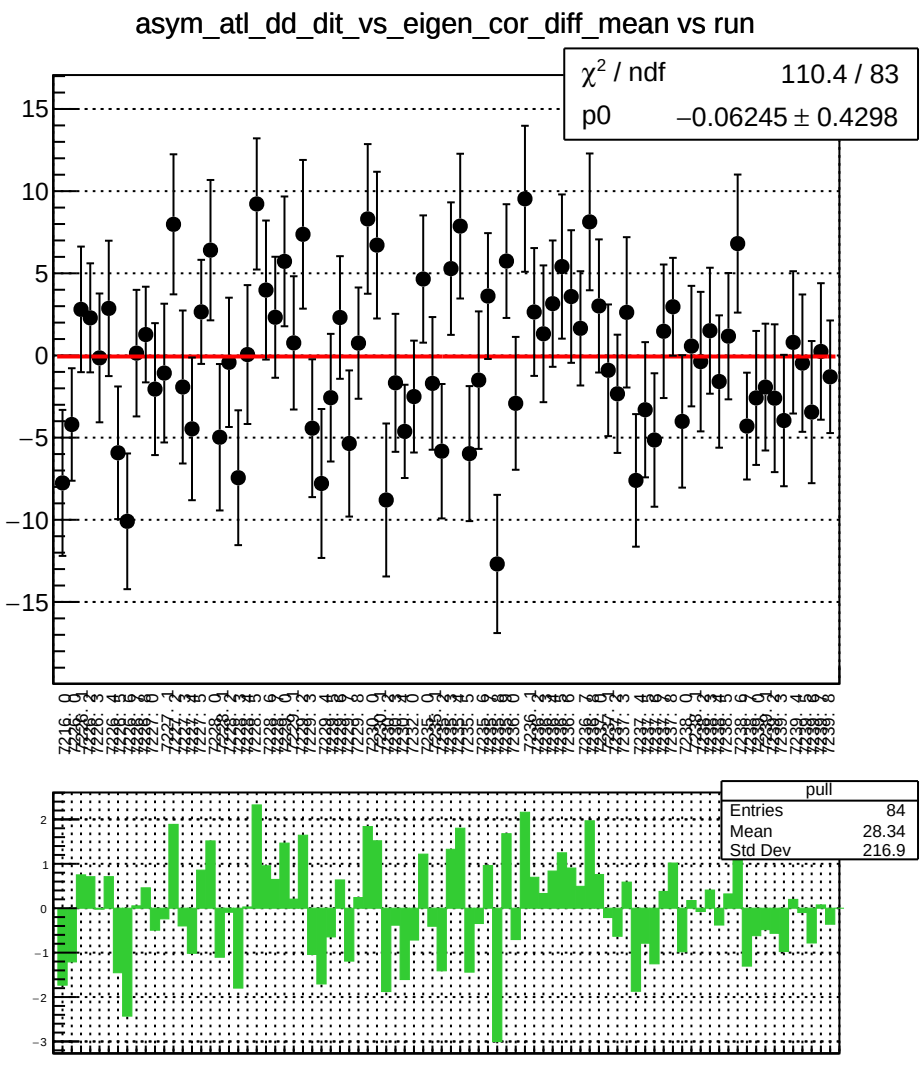

pull1D
Entries 84
Mean 0.1246
Std Dev 0.9805
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

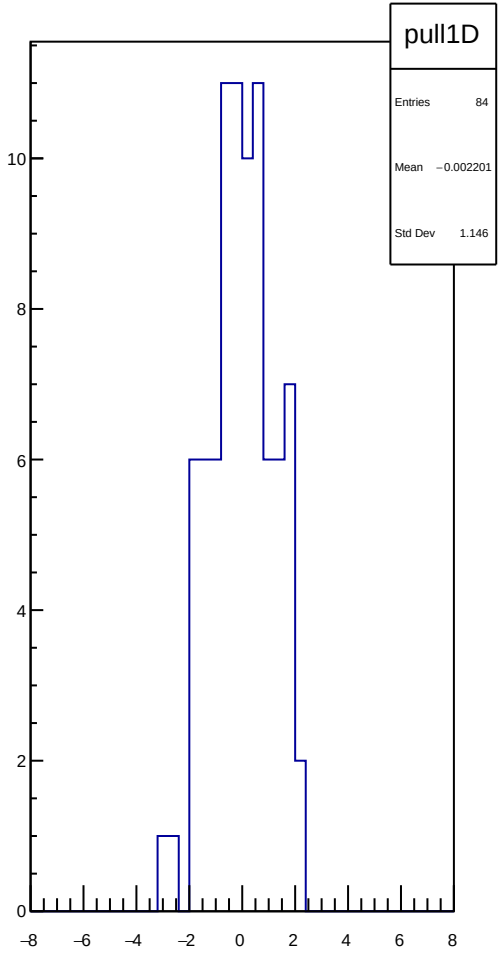

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.073e+06 / 83
p0 7.5e−11 ± 1.008e−13
1
0.8
0.6
0.4
0.2
0

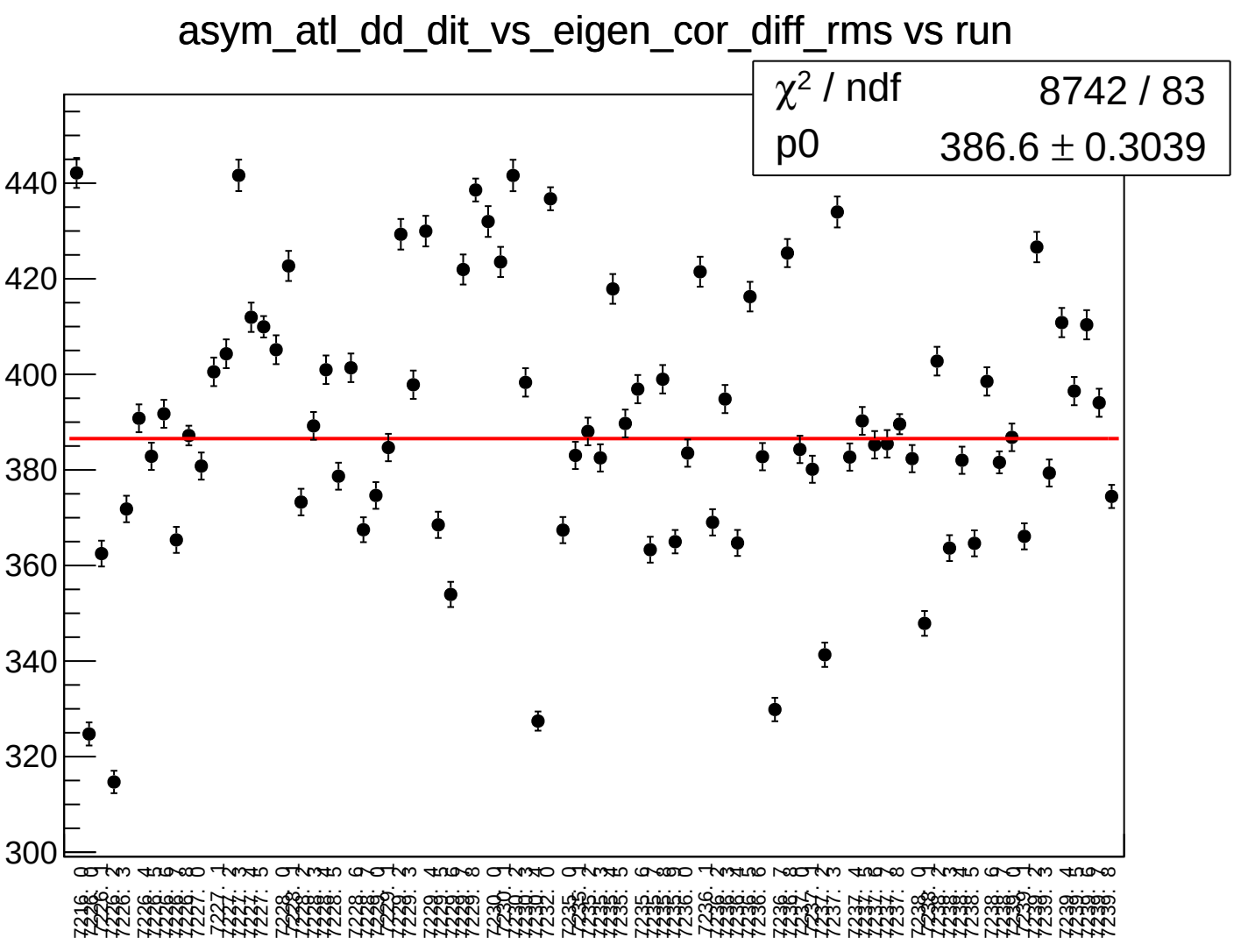

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 110.4 / 83
p0 −0.06245 ± 0.4298
pull
Entries 84
Mean 28.34
Std Dev 216.9

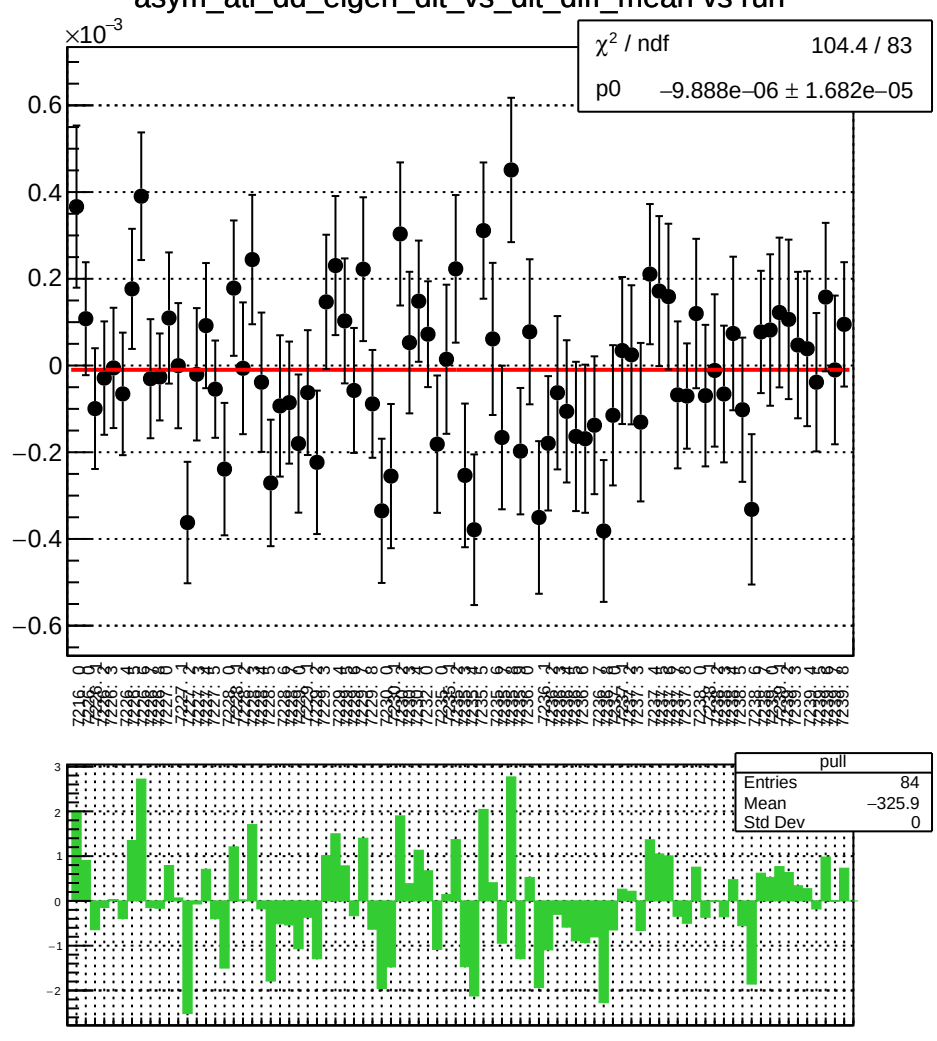

pull1D
Entries 84
Mean −0.002201
Std Dev 1.146

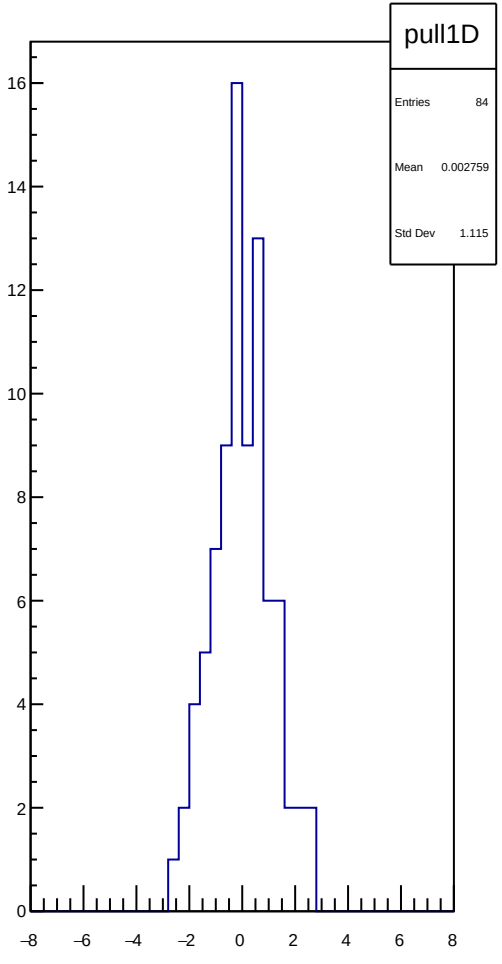

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8742 / 83
p0 386.6 ± 0.3039
440
420
400
380
360
340
320
300

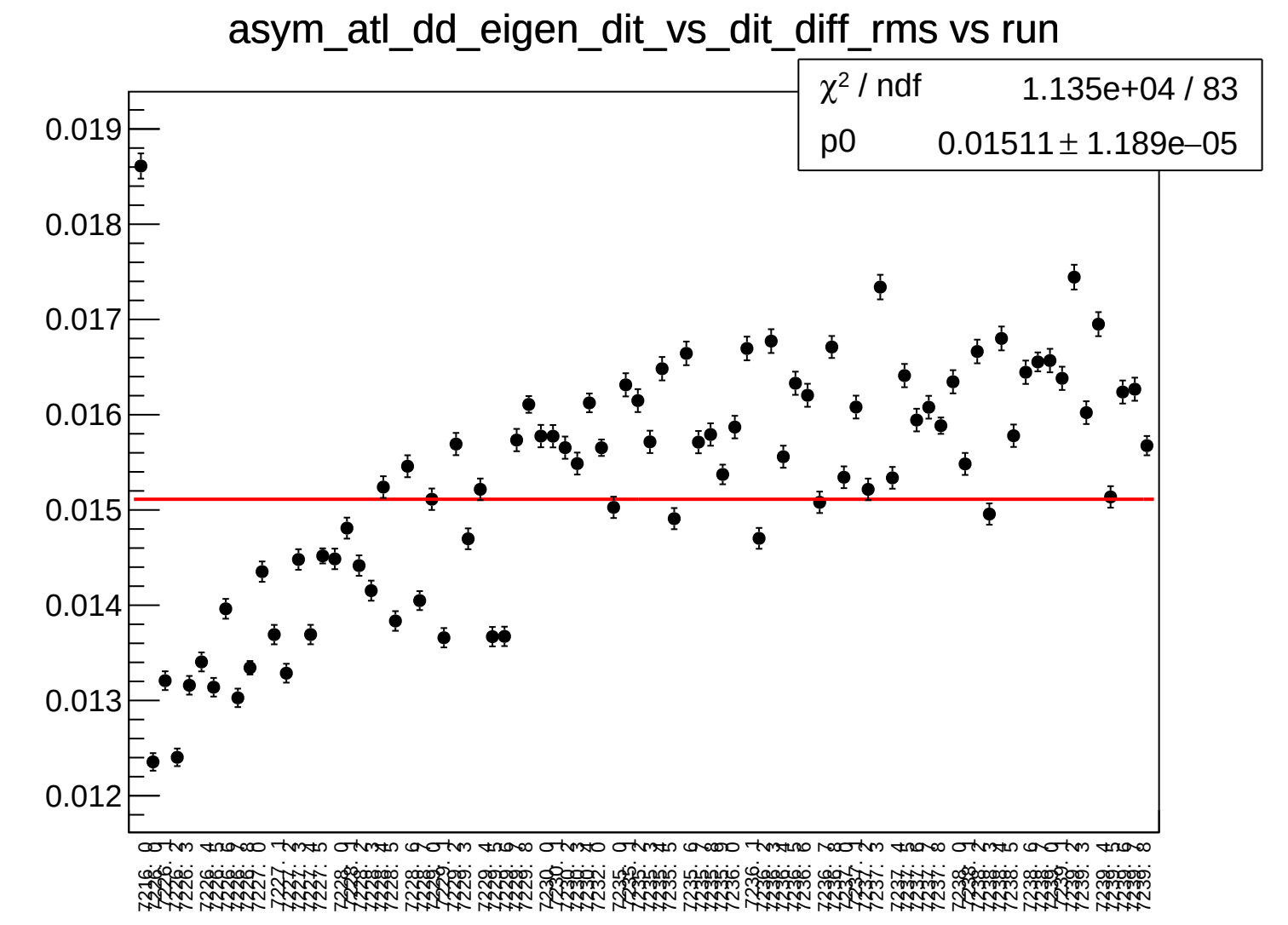

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110.4 / 83
p0 −0.06245 ± 0.4298
pull
Entries 84
Mean 28.34
Std Dev 216.9

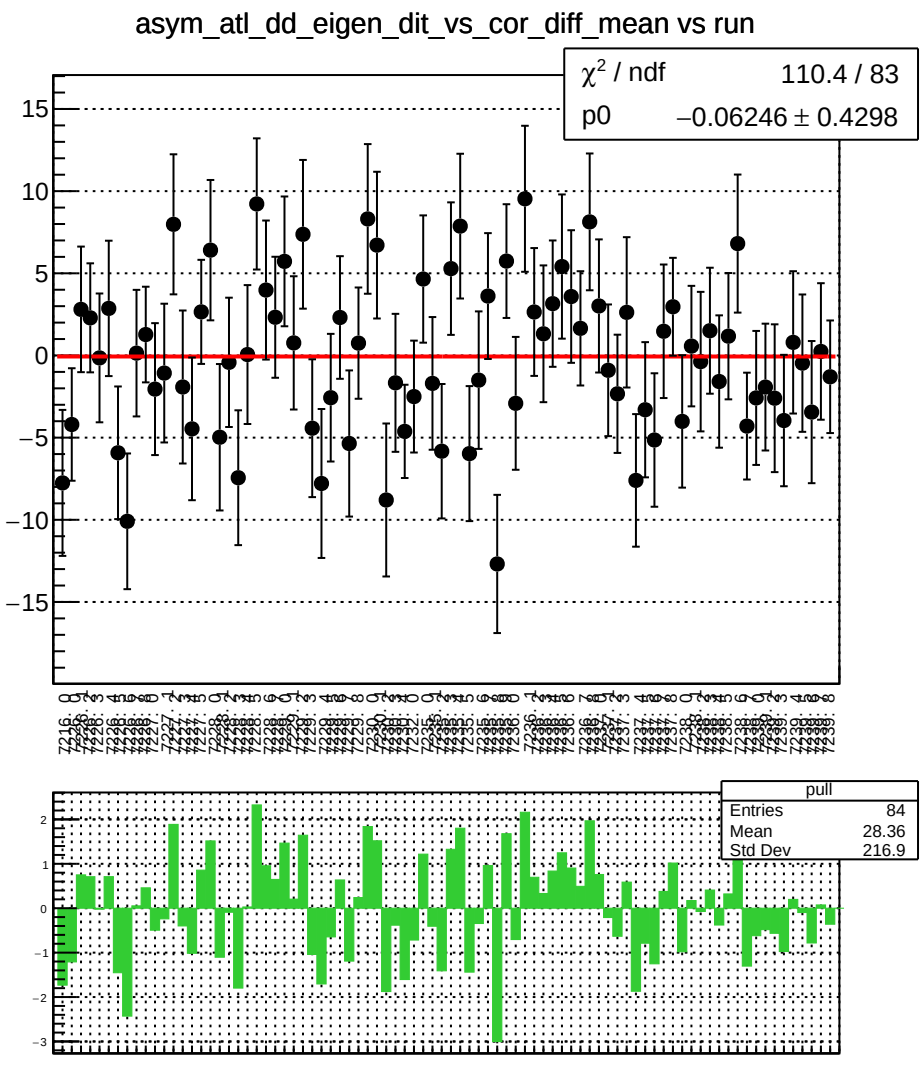

pull1D
Entries 84
Mean −0.002201
Std Dev 1.146

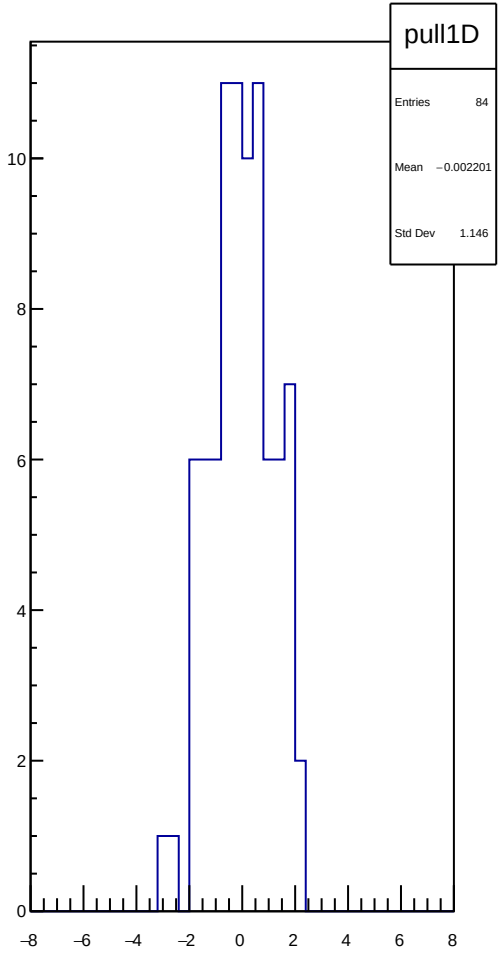

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8742 / 83
p0 386.6 ± 0.3039
440
420
400
380
360
340
320
300

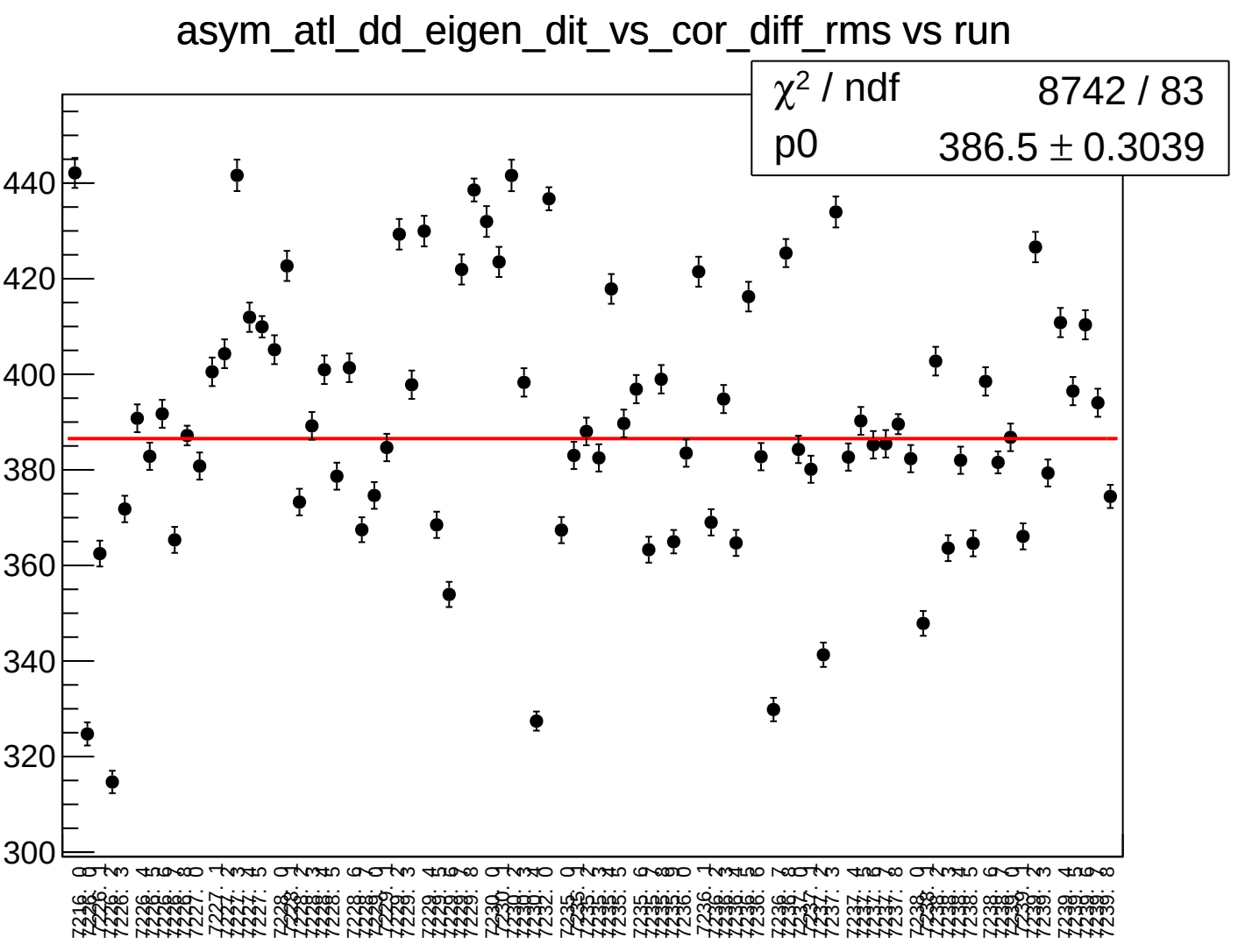

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 104.4 / 83
p0 −9.888e−06 ± 1.682e−05
pull
Entries 84
Mean −325.9
Std Dev 0

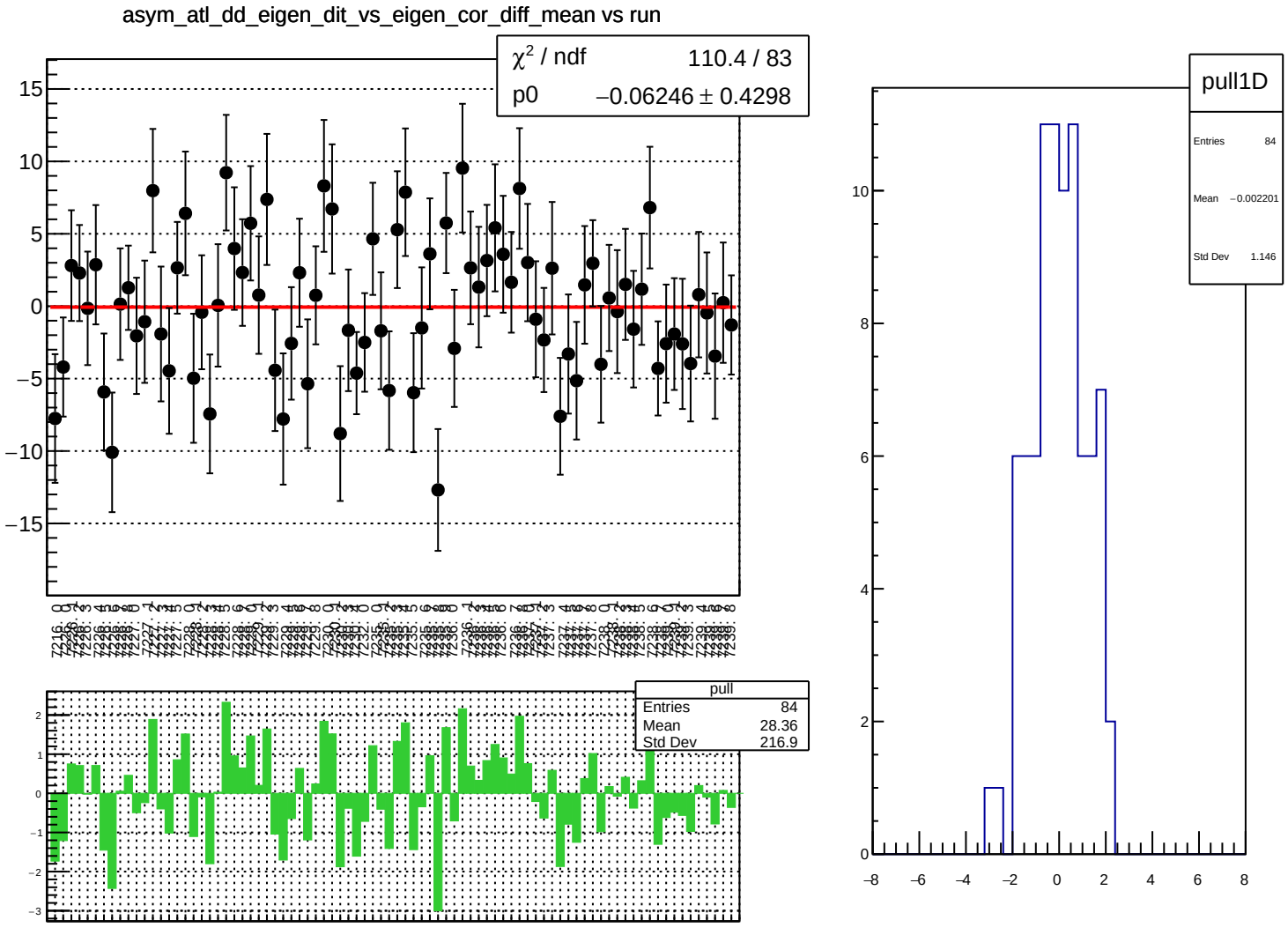

pull1D
Entries 84
Mean 0.002759
Std Dev 1.115

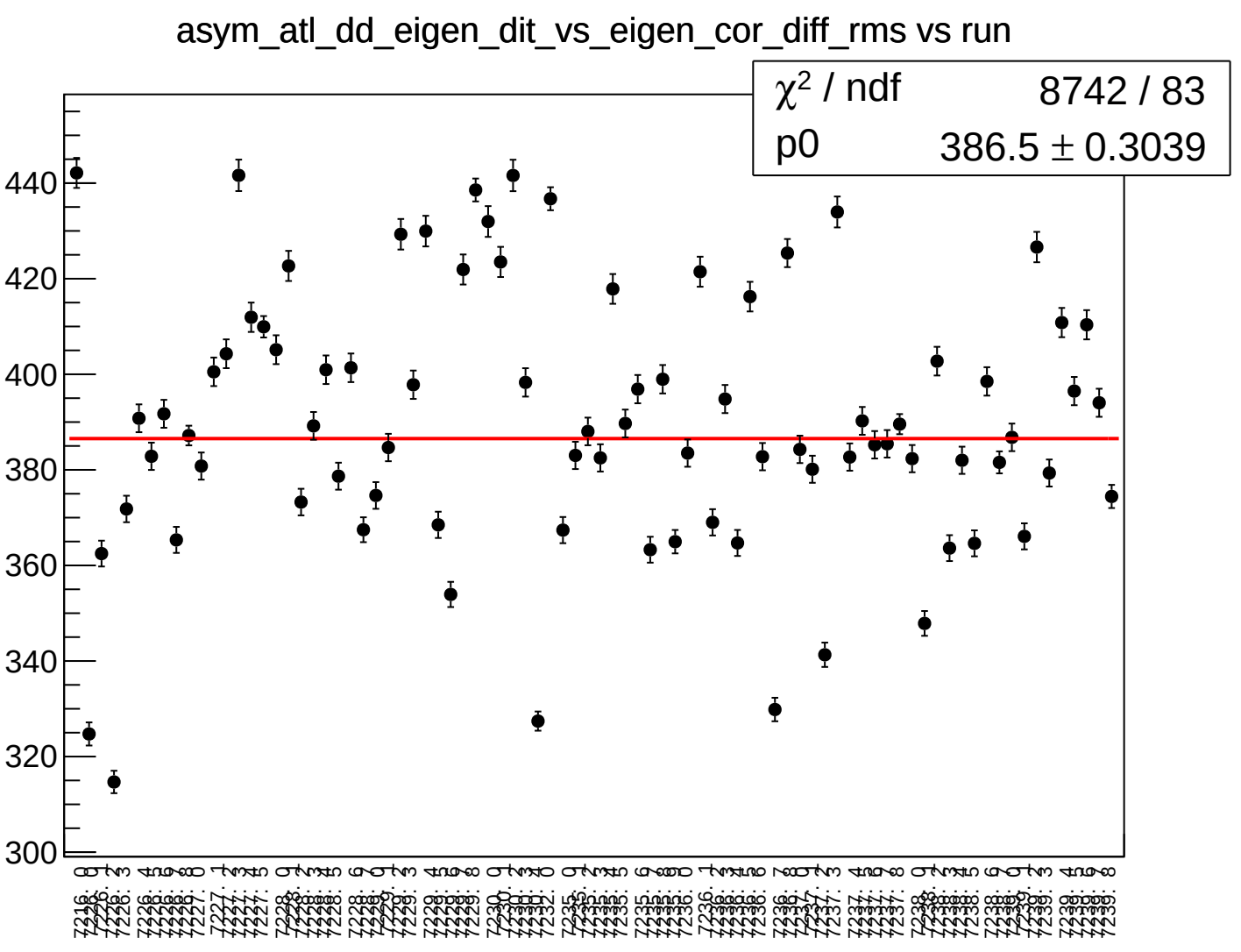

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.135e+04 / 83
p0 0.01511 ± 1.189e–05
0.019
0.018
0.017
0.016
0.015
0.014
0.013
0.012

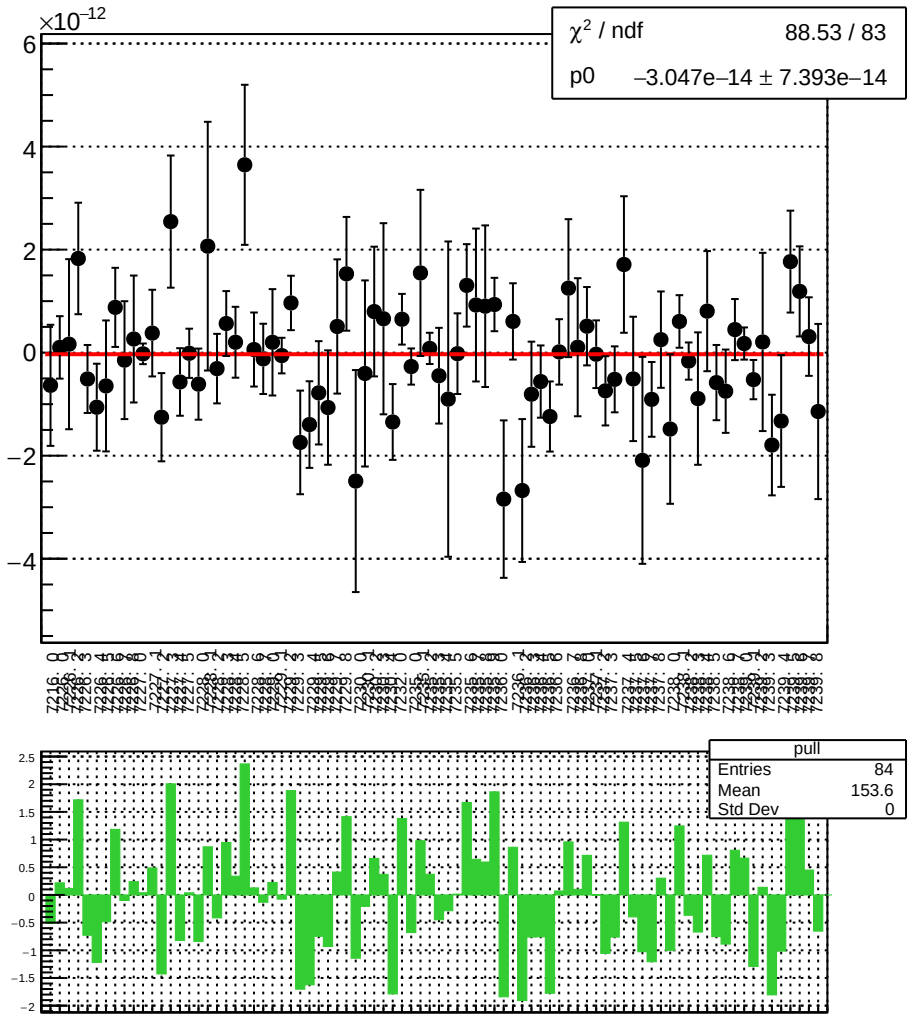

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 110.4 / 83
p0 −0.06246 ± 0.4298
pull
Entries 84
Mean 28.36
Std Dev 216.9

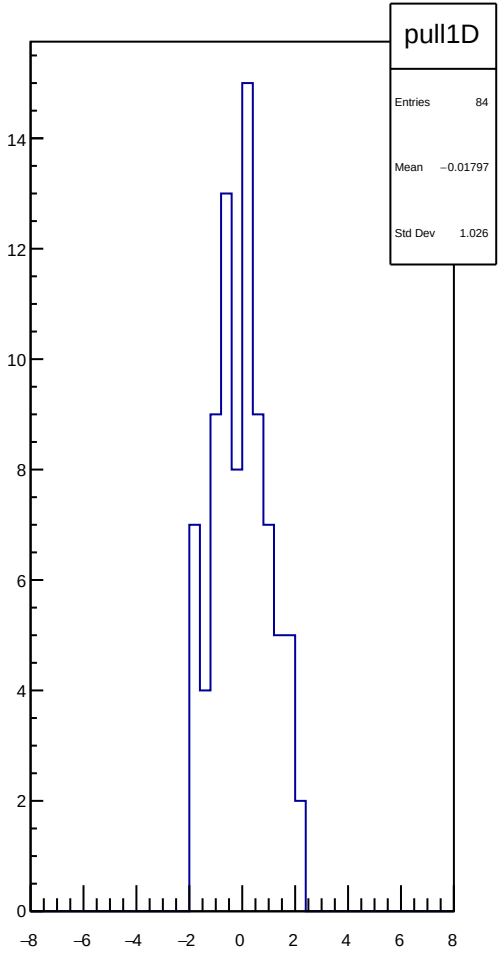

pull1D
Entries 84
Mean −0.002201
Std Dev 1.146

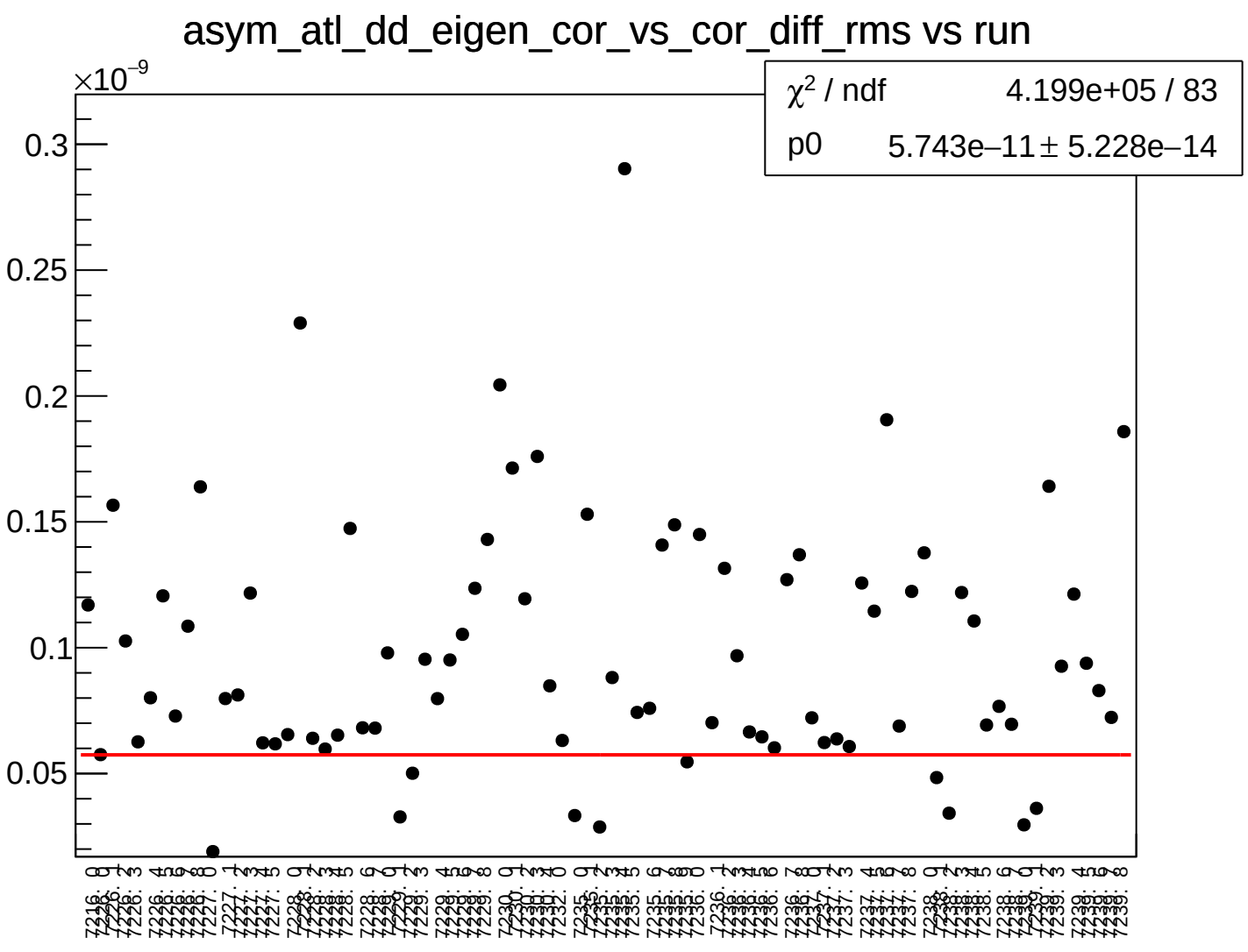

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8742 / 83
p0 386.5 ± 0.3039
440
420
400
380
360
340
320
300

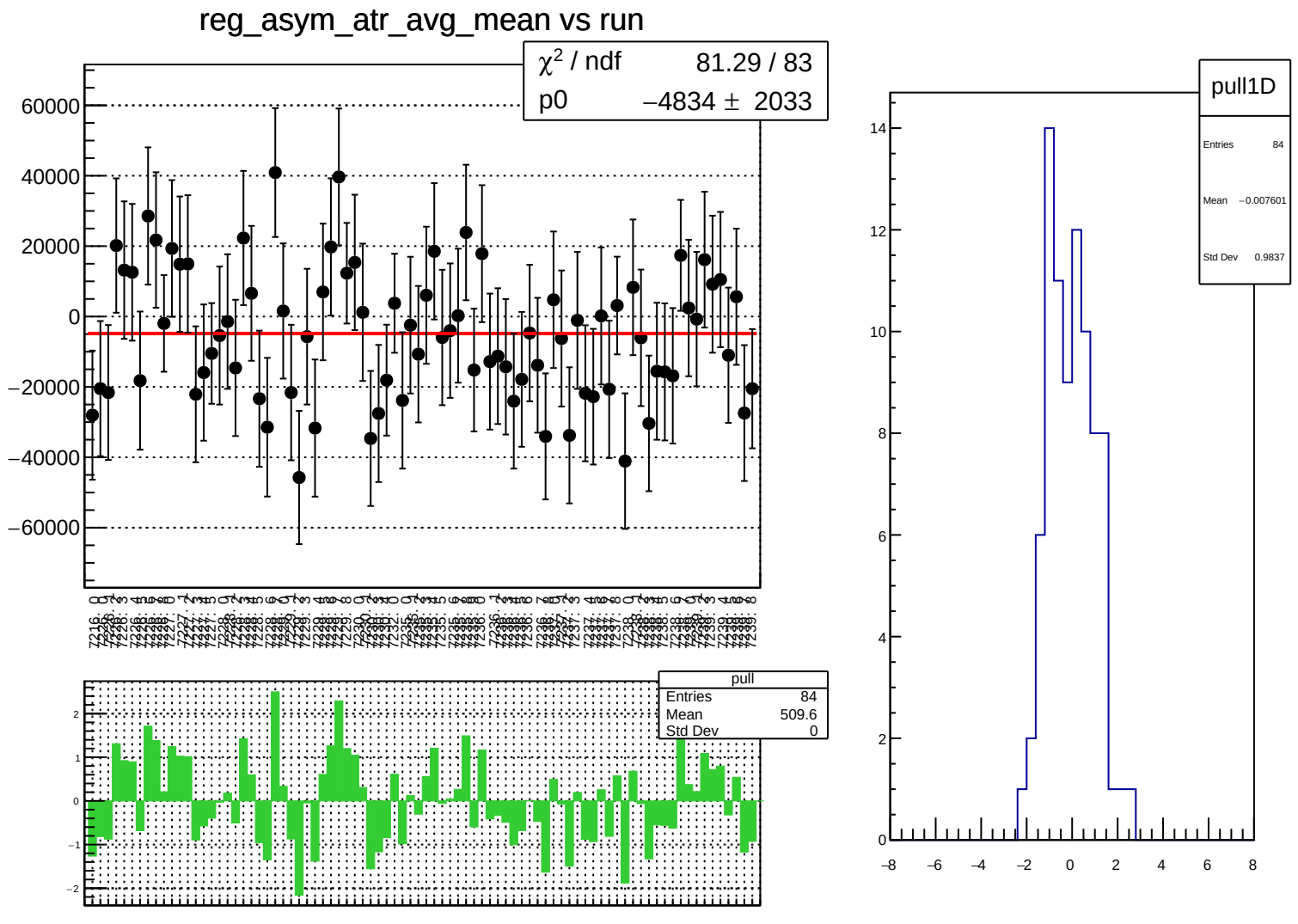

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110.4 / 83
p0 −0.06246 ± 0.4298
pull
Entries 84
Mean 28.36
Std Dev 216.9
pull1D
Entries 84
Mean −0.002201
Std Dev 1.146

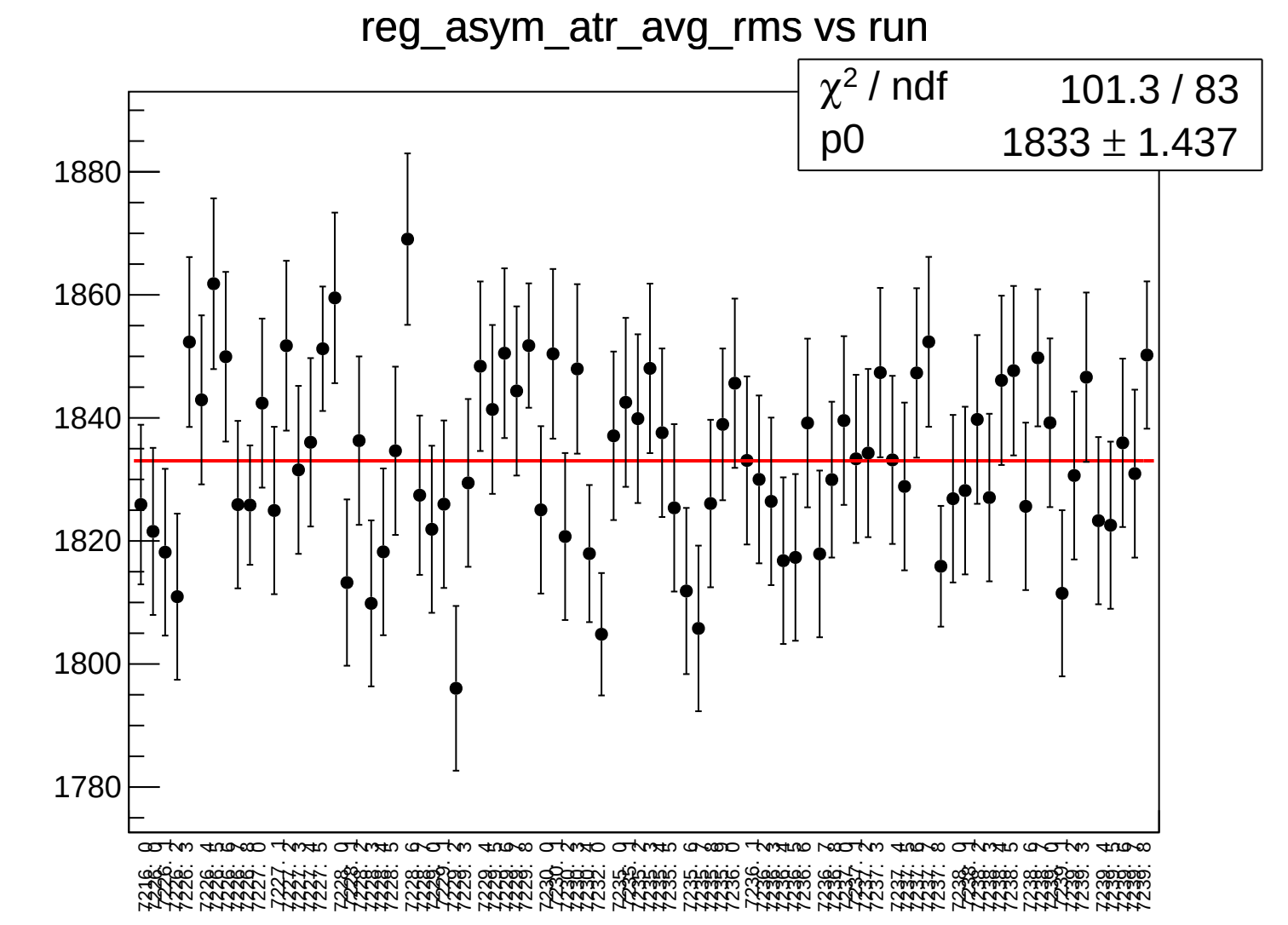

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8742 / 83
p0 386.5 ± 0.3039
440
420
400
380
360
340
320
300

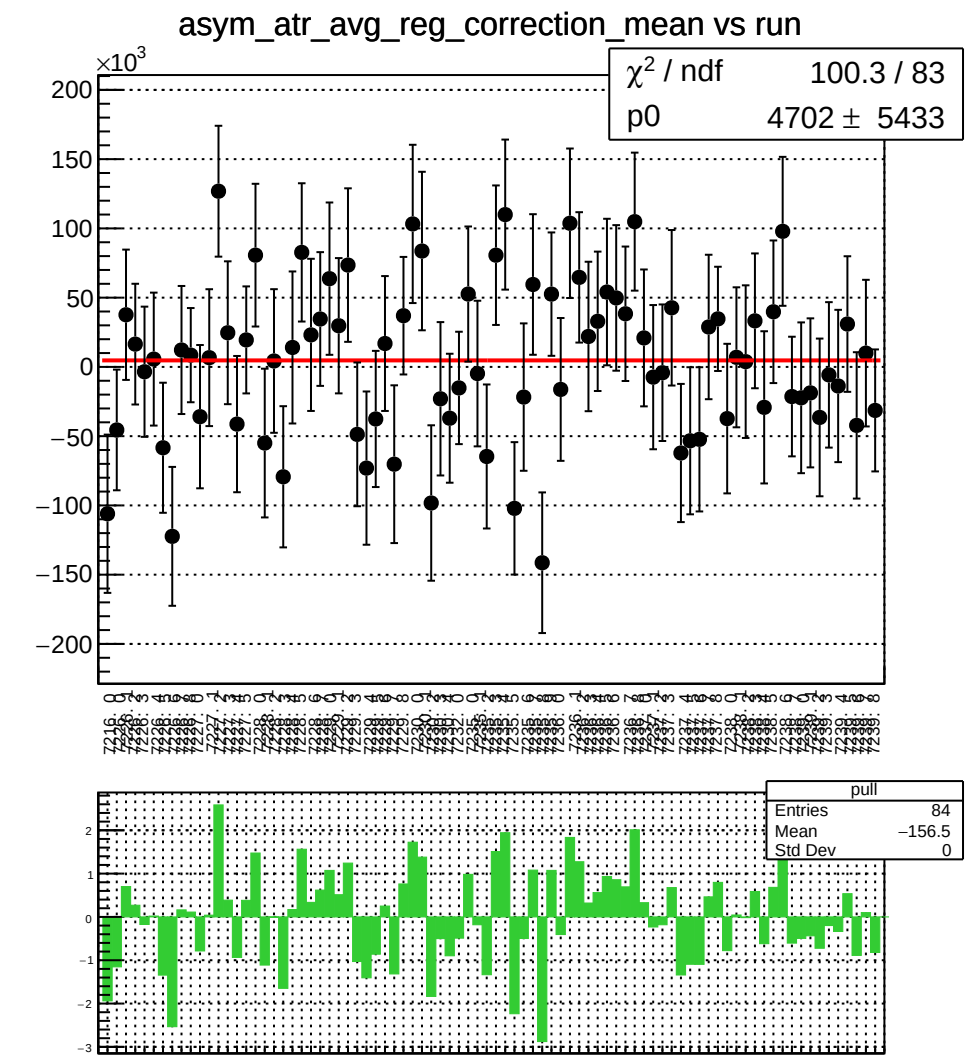

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.53 / 83
p0 −3.047e−14 ± 7.393e−14
pull
Entries 84
Mean 153.6
Std Dev 0

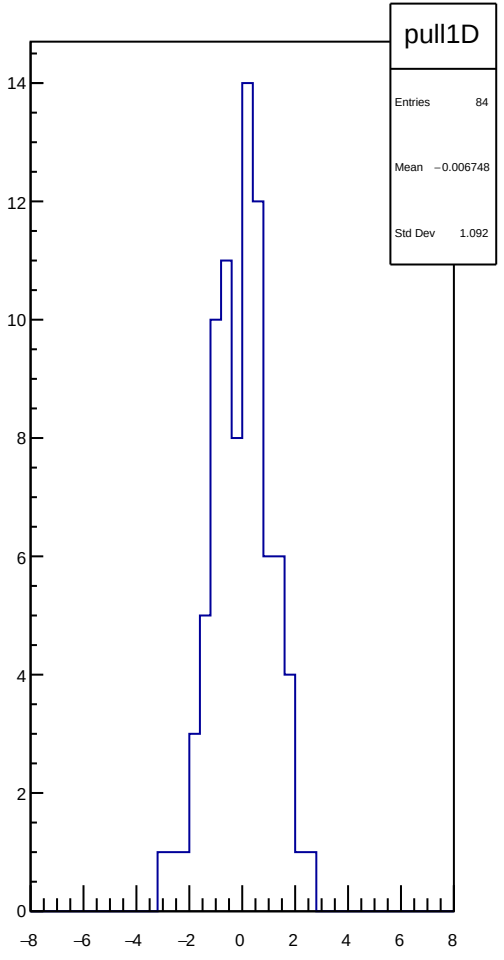

pull1D
Entries 84
Mean −0.01797
Std Dev 1.026

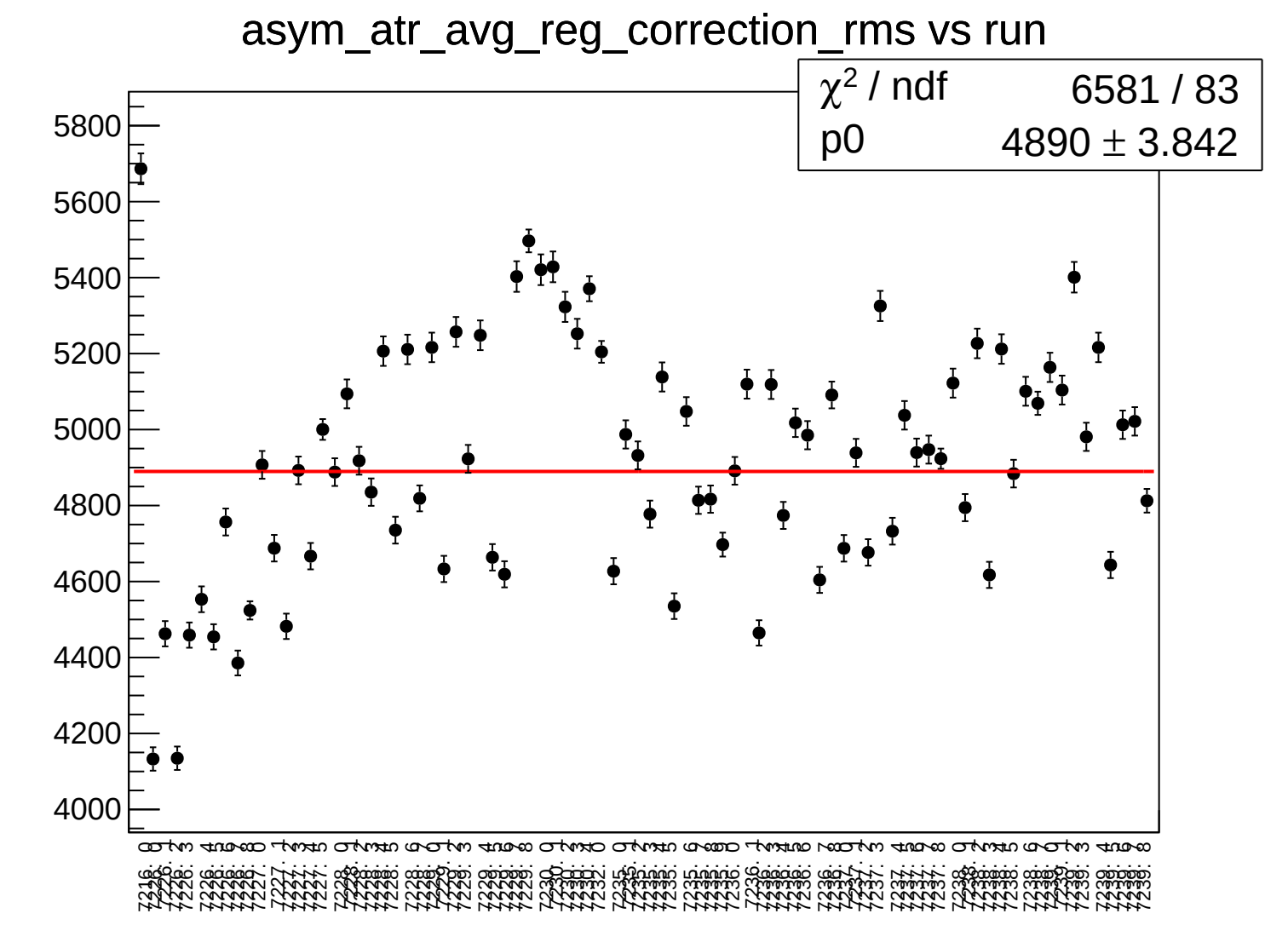

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.199e+05 / 83
p0 5.743e−11 ± 5.228e−14
0.3
0.25
0.2
0.15
0.1
0.05

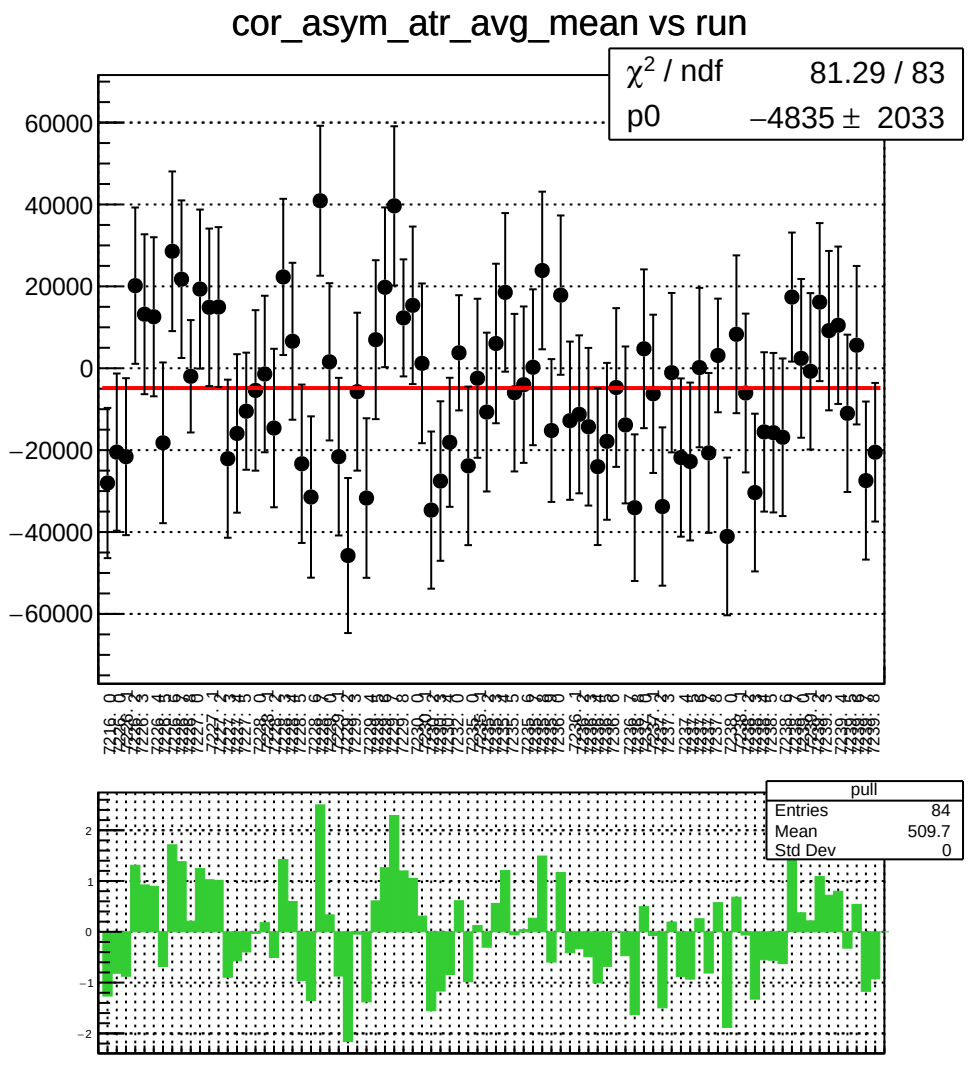

reg_asym_atr_avg_mean vs run
χ² / ndf 81.29 / 83
p0 −4834 ± 2033
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 509.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.007601
Std Dev 0.9837
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

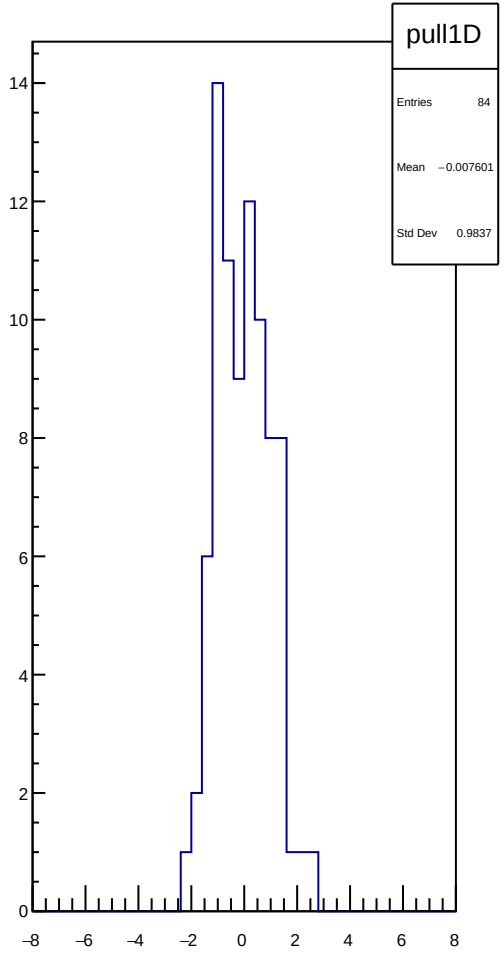

reg_asym_atr_avg_rms vs run
χ^2 / ndf 101.3 / 83
p0 1833 ± 1.437
1880
1860
1840
1820
1800
1780

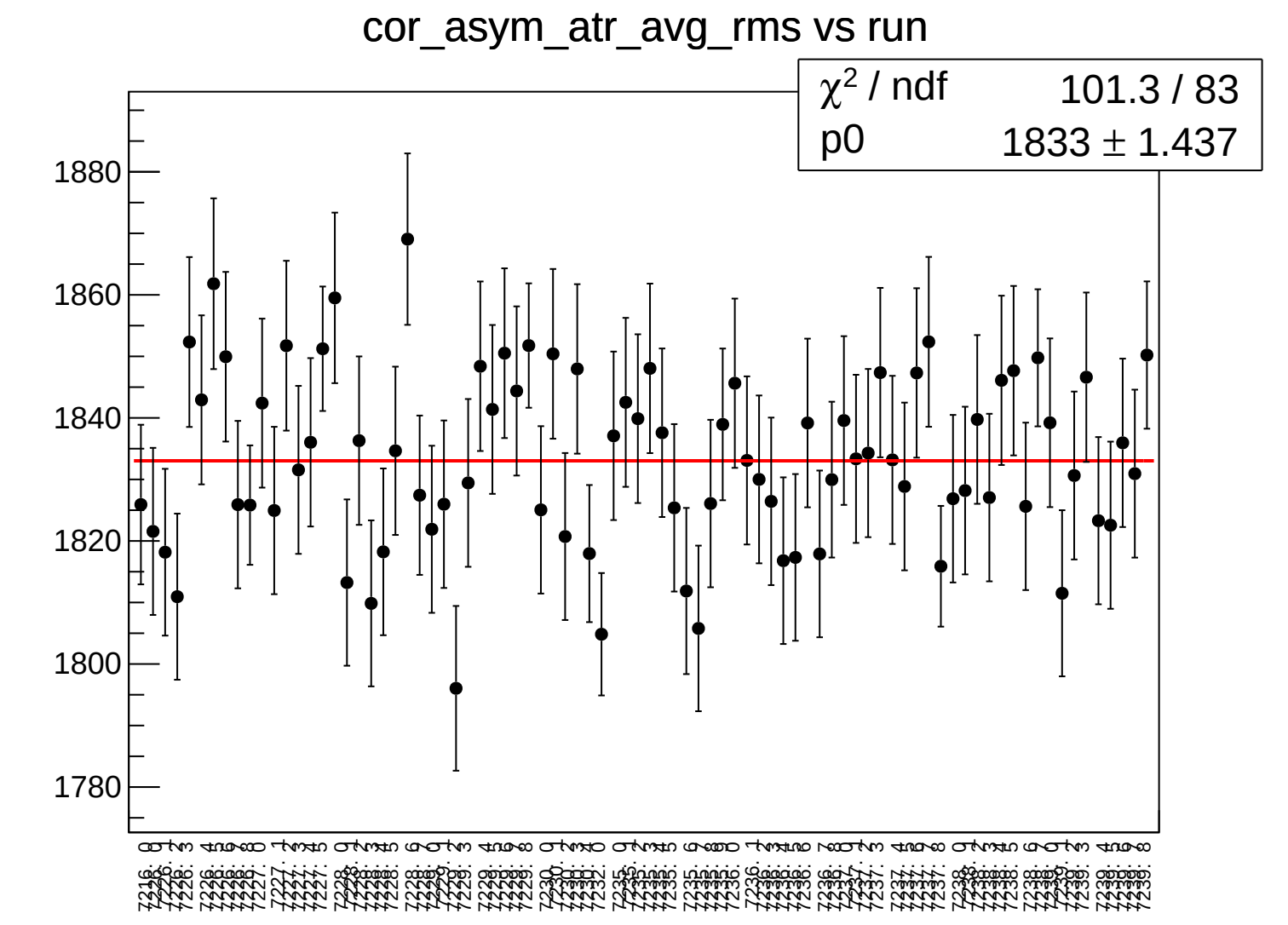

asym_atr_avg_reg_correction_mean vs run
×10^3
χ² / ndf 100.3 / 83
p0 4702 ± 5433
pull
Entries 84
Mean −156.5
Std Dev 0

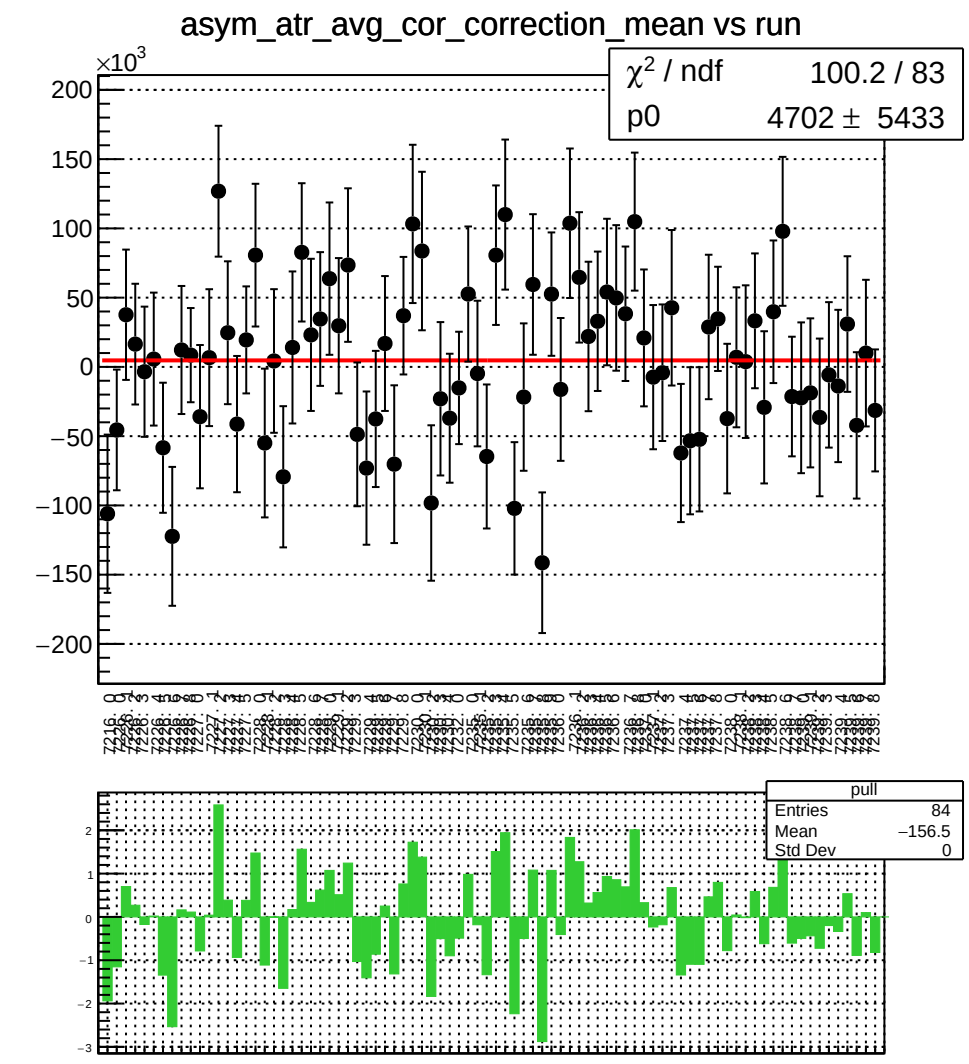

pull1D
Entries 84
Mean −0.006748
Std Dev 1.092

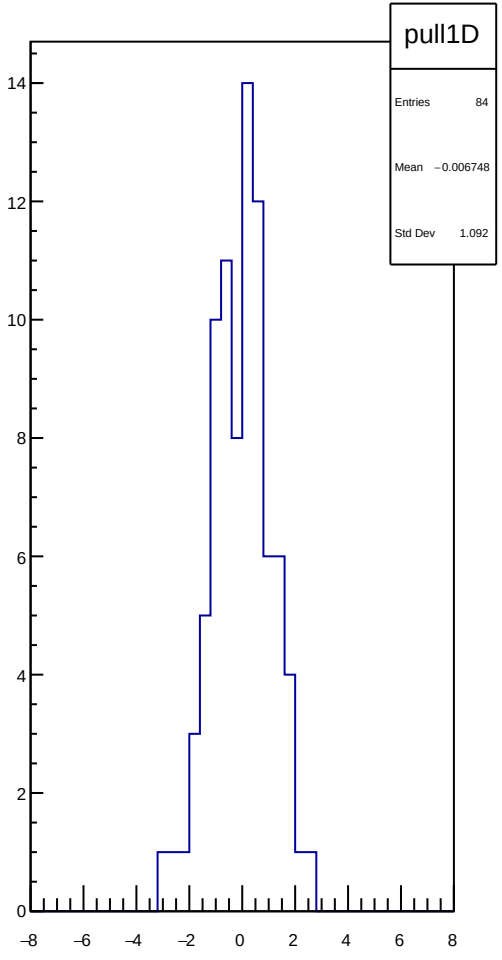

asym_atr_avg_reg_correction_rms vs run
χ² / ndf 6581 / 83
p0 4890 ± 3.842
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000

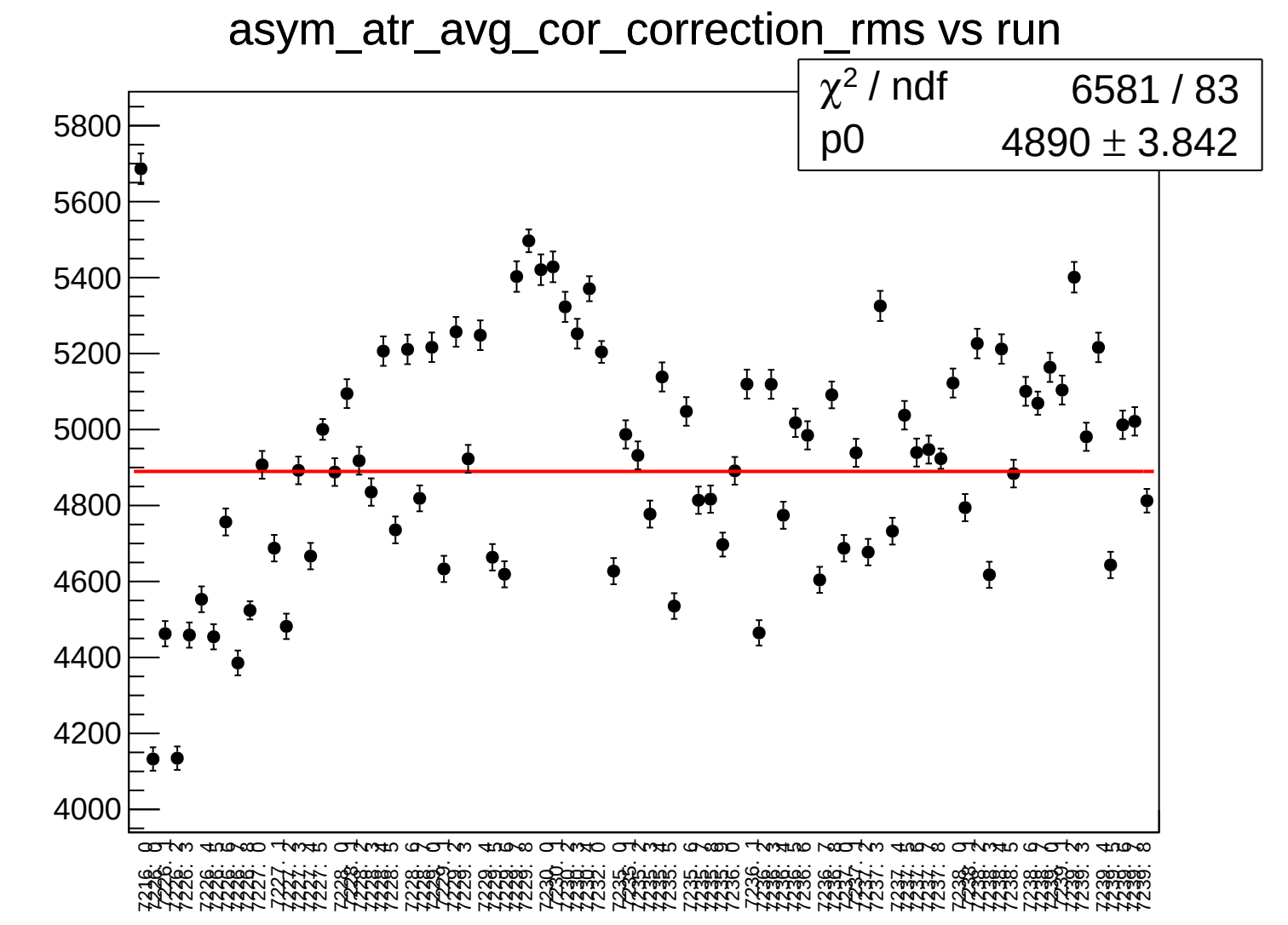

cor_asym_atr_avg_mean vs run
χ² / ndf 81.29 / 83
p0 −4835 ± 2033
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 509.7
Std Dev 0
2
1
0
−1
−2

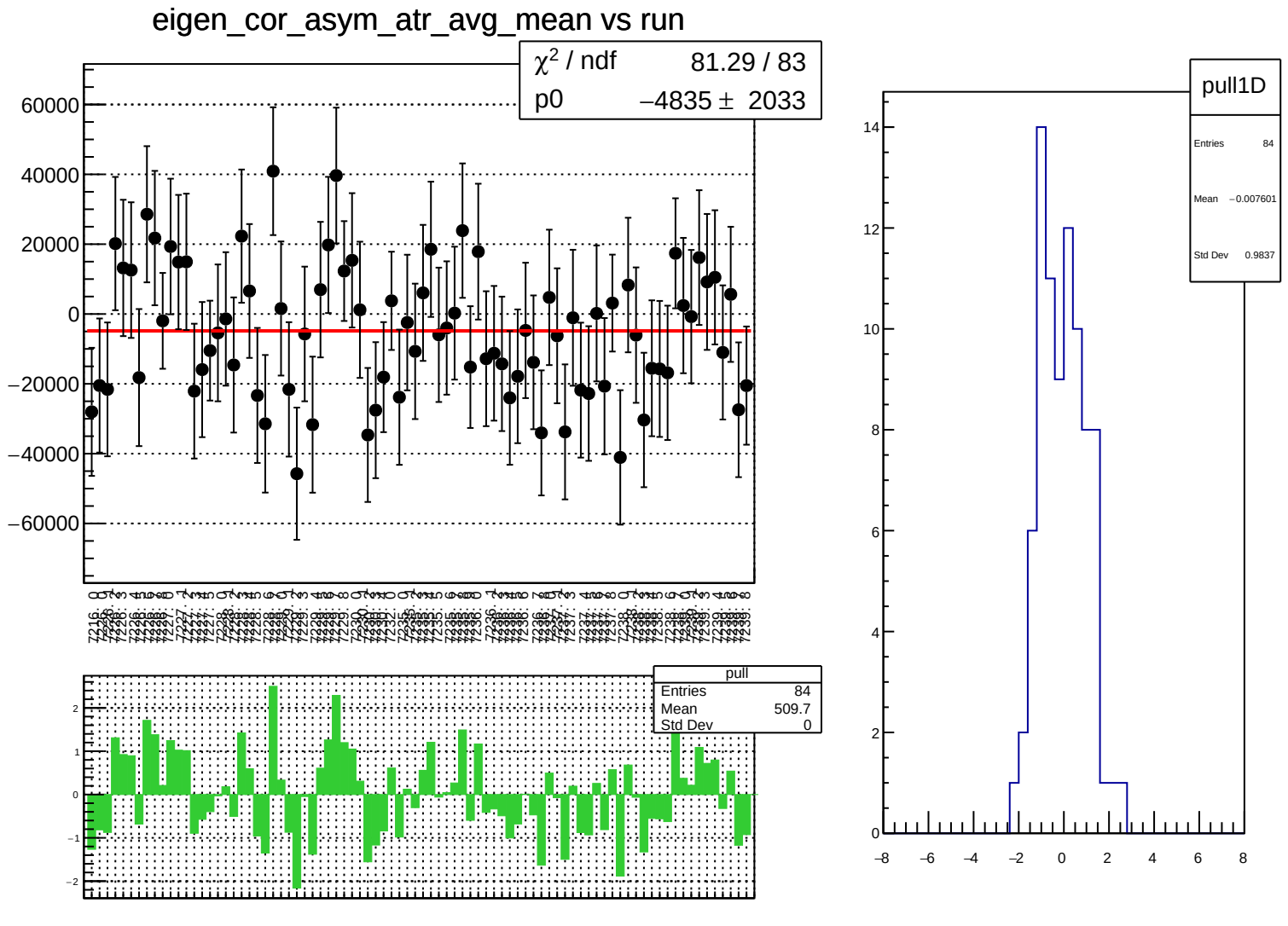

pull1D
Entries 84
Mean −0.007601
Std Dev 0.9837
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

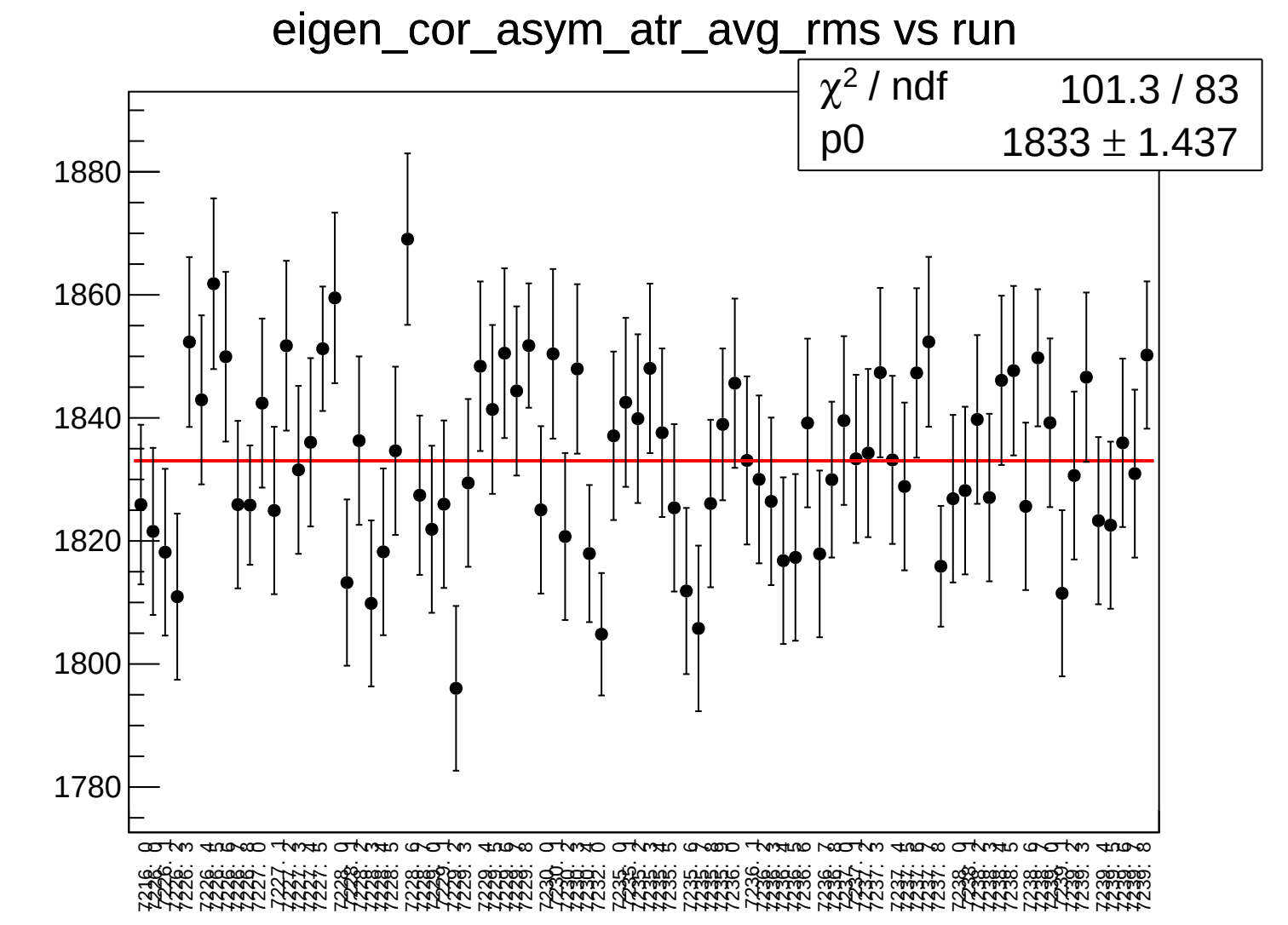

cor_asym_atr_avg_rms vs run
χ^2 / ndf 101.3 / 83
p0 1833 ± 1.437
1880
1860
1840
1820
1800
1780

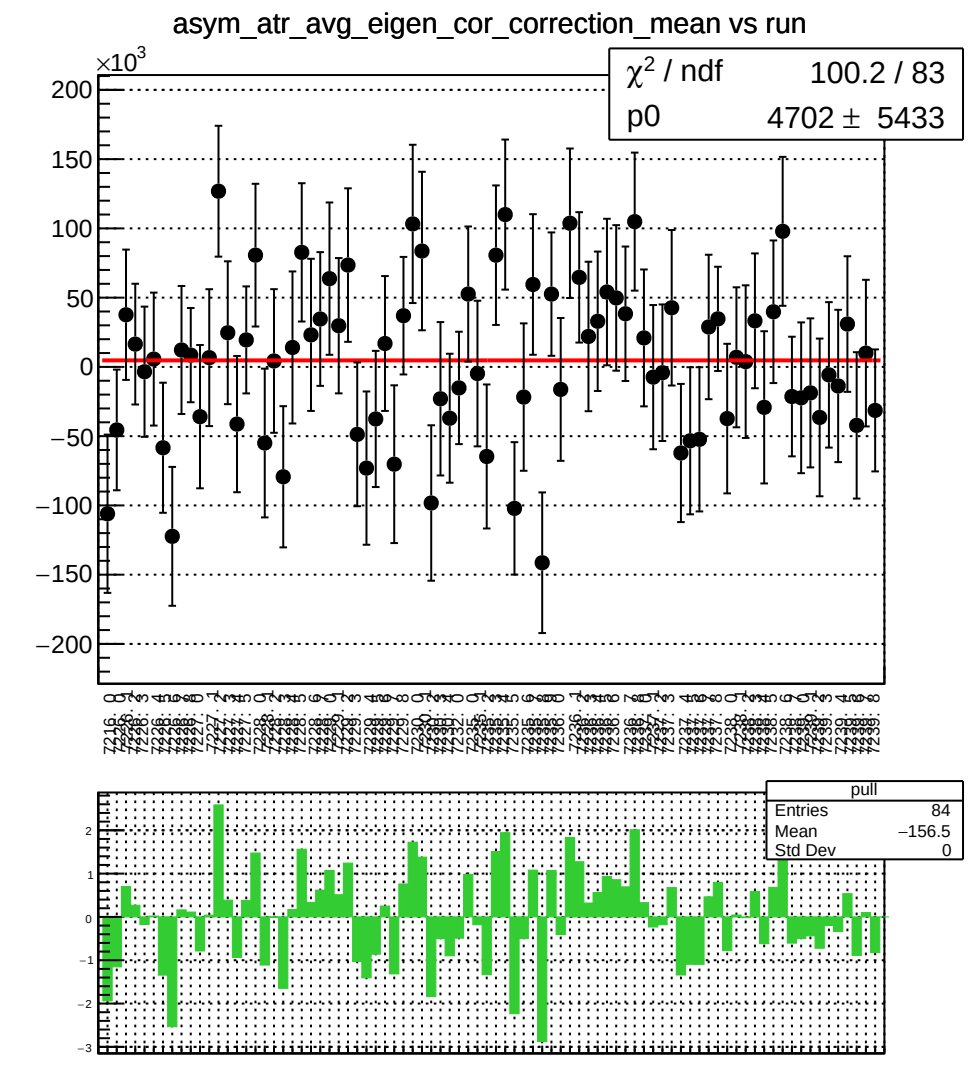

asym_atr_avg_cor_correction_mean vs run
×10^3
χ² / ndf 100.2 / 83
p0 4702 ± 5433
pull
Entries 84
Mean −156.5
Std Dev 0

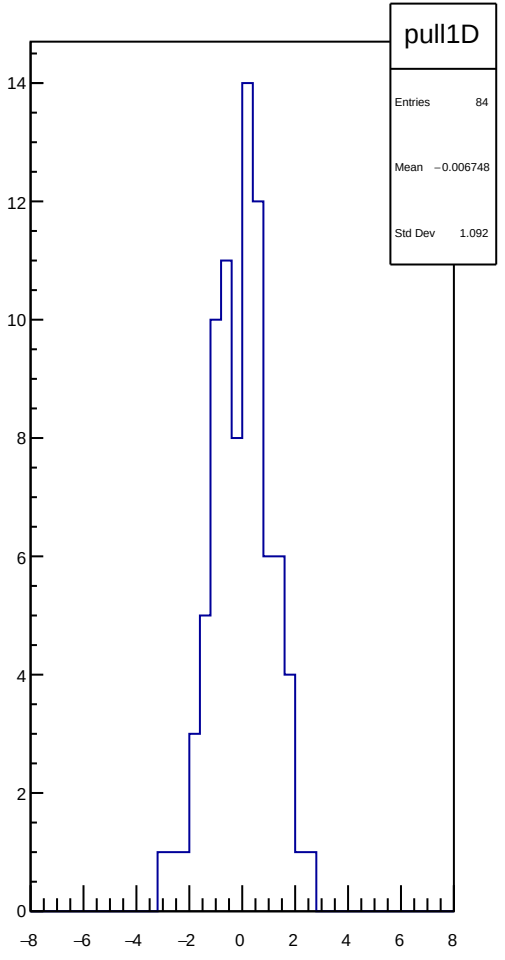

pull1D
Entries 84
Mean −0.006748
Std Dev 1.092

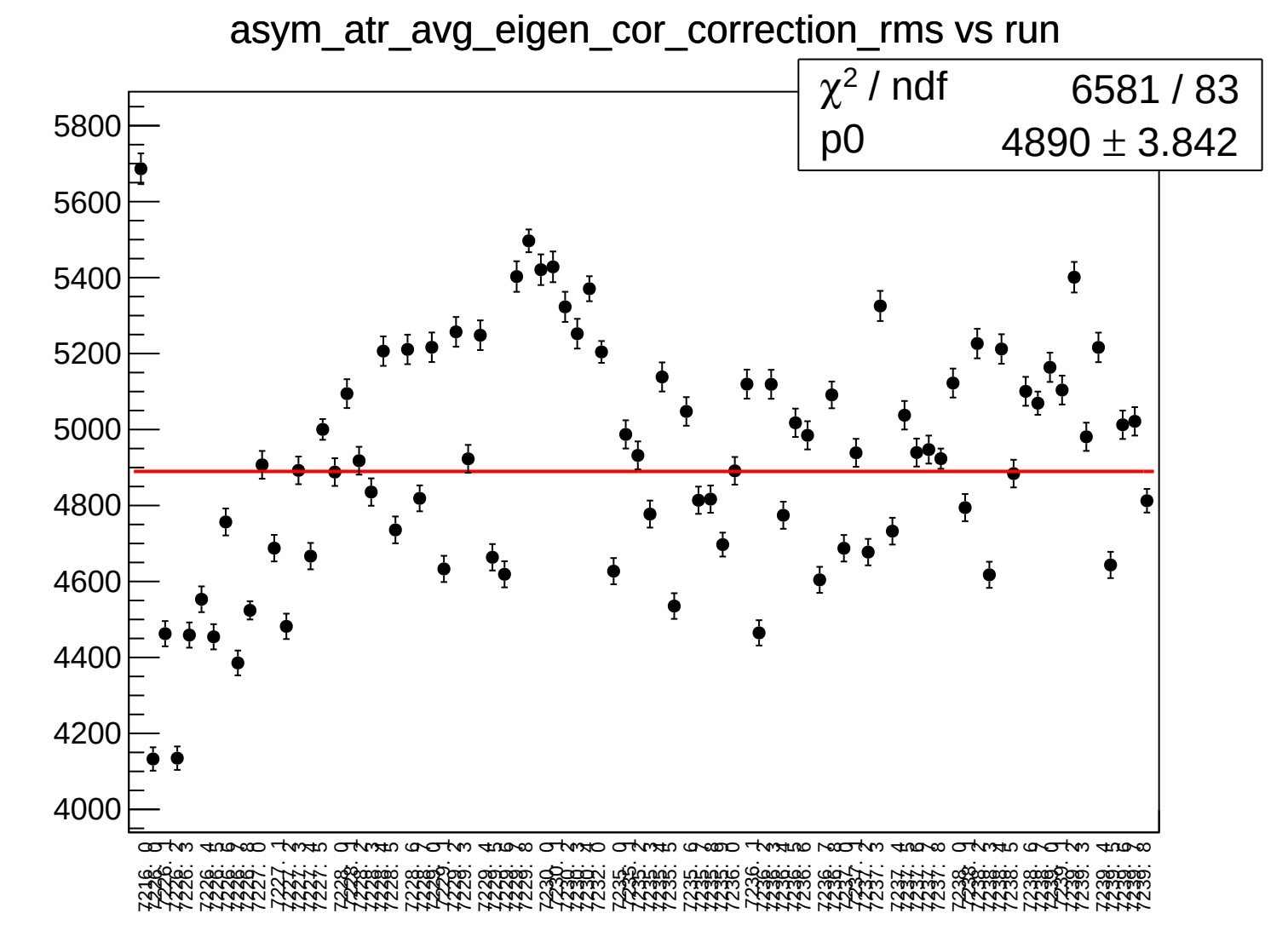

asym_atr_avg_cor_correction_rms vs run
χ^2 / ndf 6581 / 83
p0 4890 ± 3.842
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000

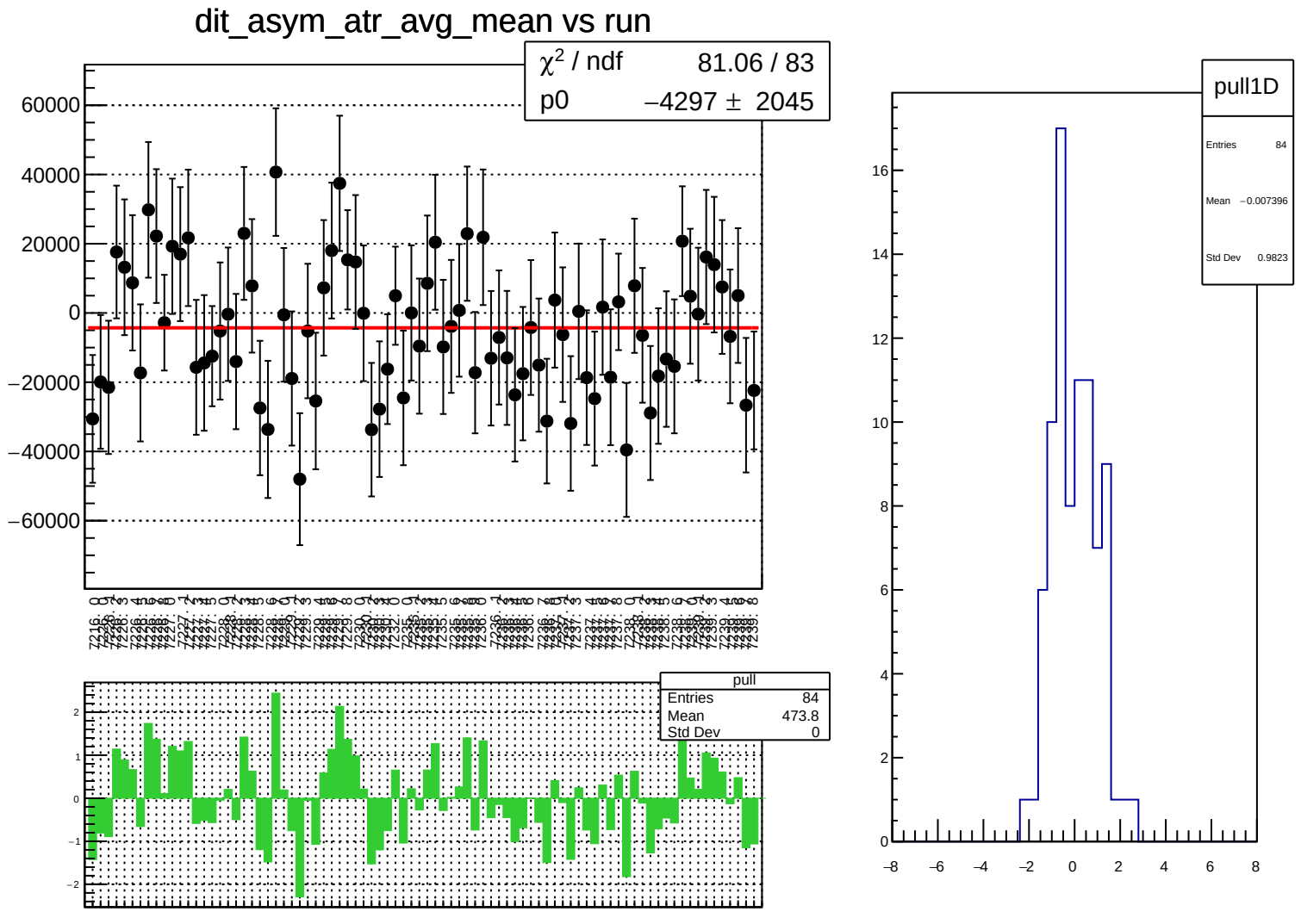

eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 81.29 / 83
p0 −4835 ± 2033
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 509.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.007601
Std Dev 0.9837
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

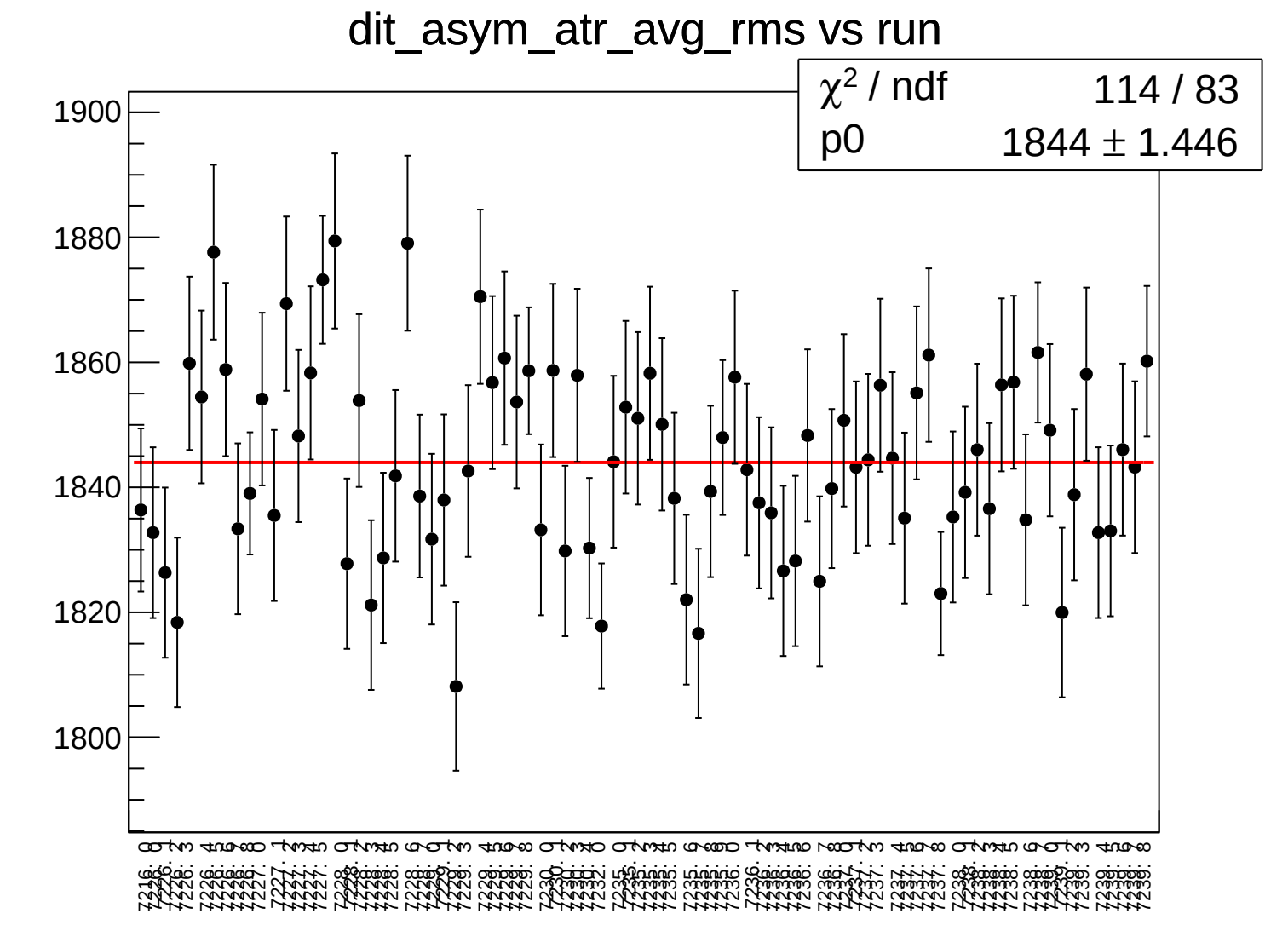

eigen_cor_asym_atr_avg_rms vs run
χ^2 / ndf 101.3 / 83
p0 1833 ± 1.437
1880
1860
1840
1820
1800
1780

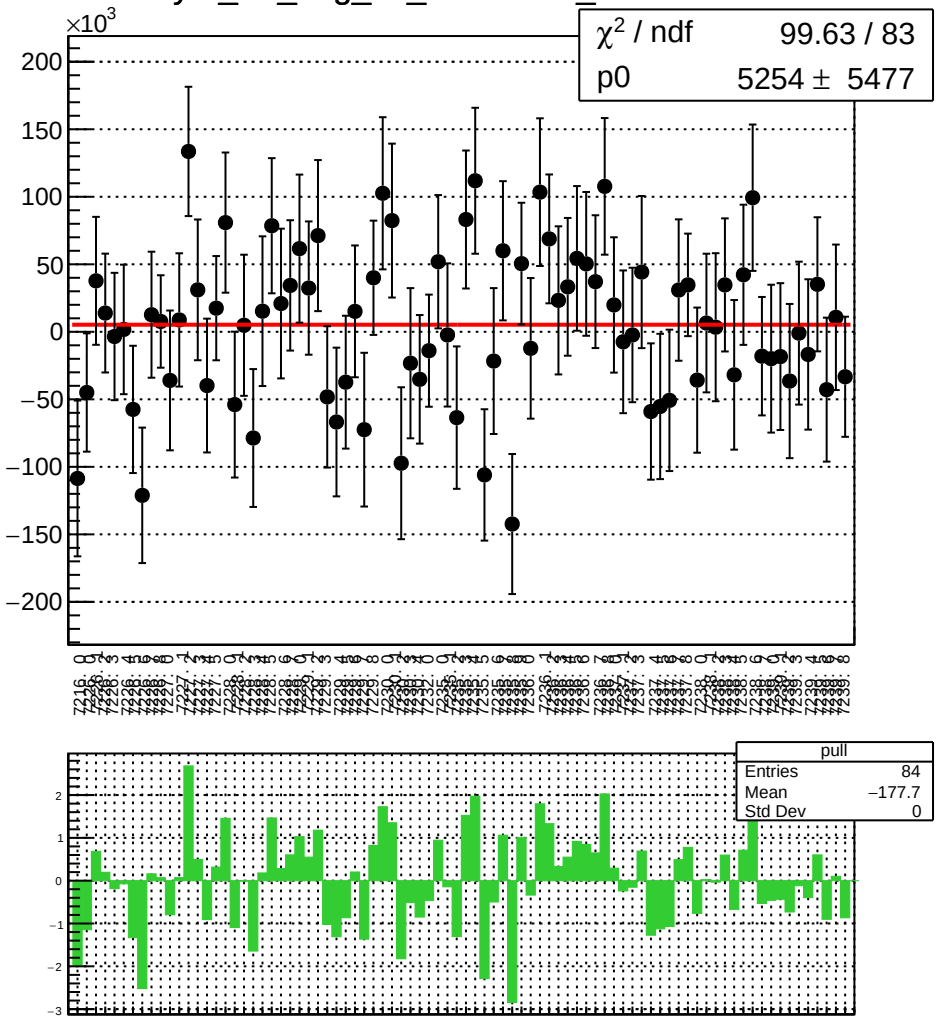

asym_atr_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 100.2 / 83
p0 4702 ± 5433
pull
Entries 84
Mean −156.5
Std Dev 0

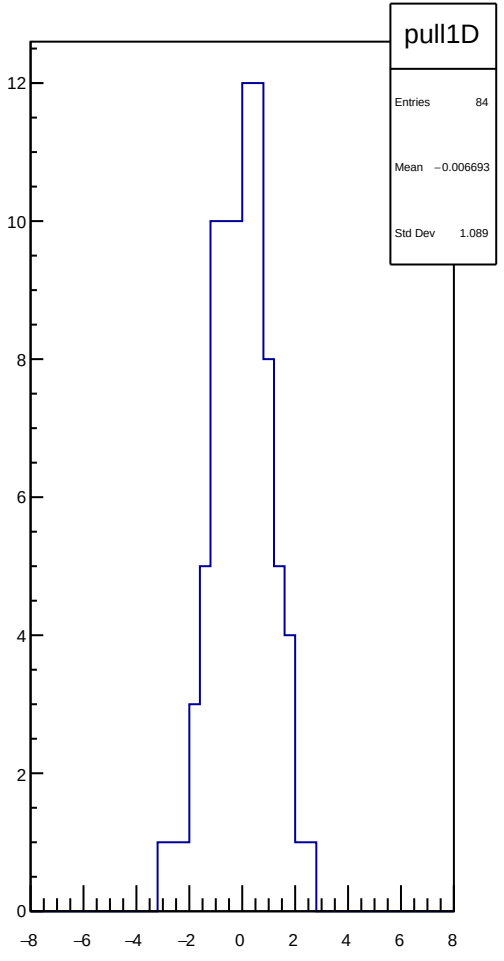

pull1D
Entries 84
Mean −0.006748
Std Dev 1.092

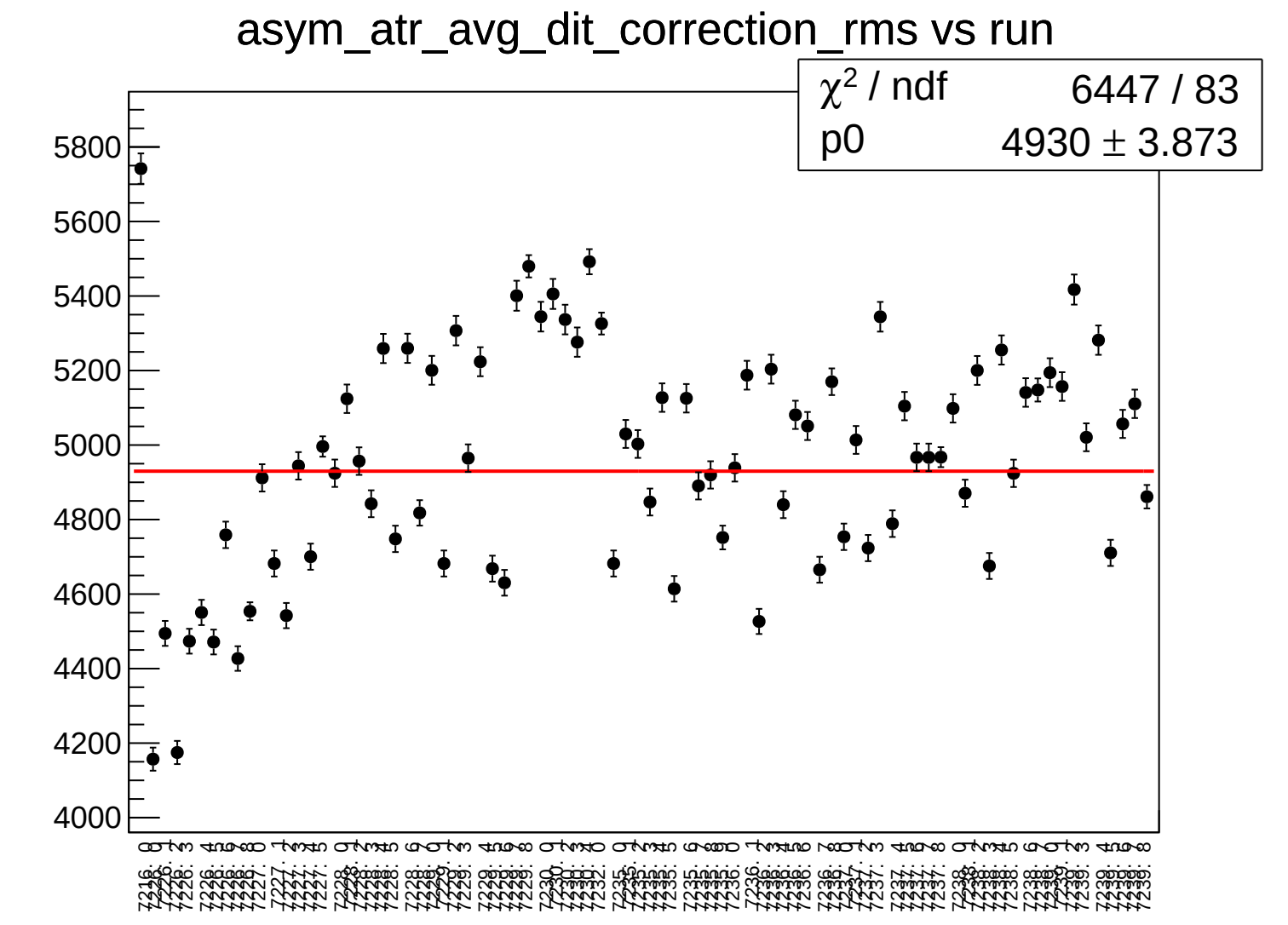

asym_atr_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 6581 / 83
p0 4890 ± 3.842
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000

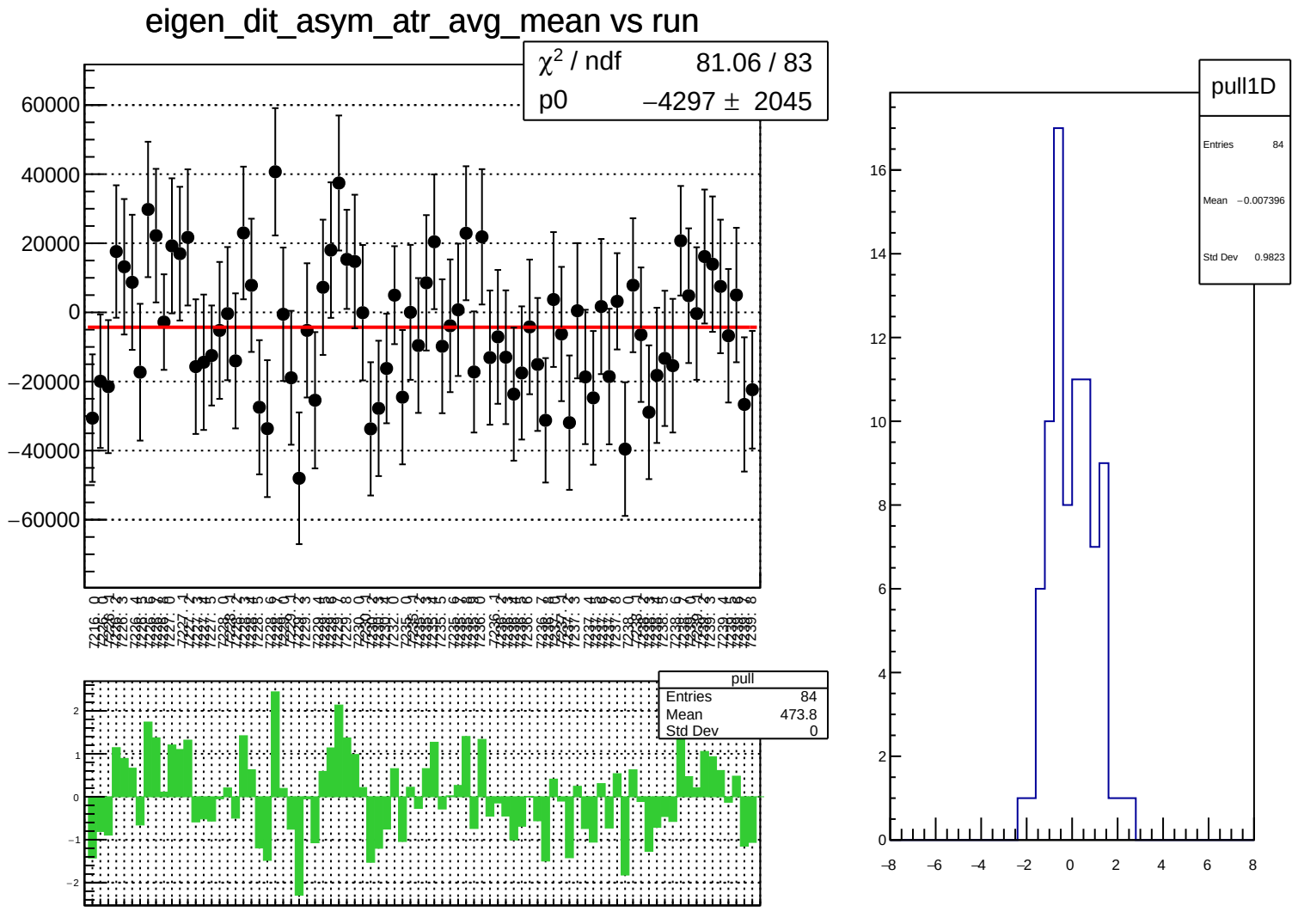

dit_asym_atr_avg_mean vs run
χ² / ndf 81.06 / 83
p0 −4297 ± 2045
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 473.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.007396
Std Dev 0.9823
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

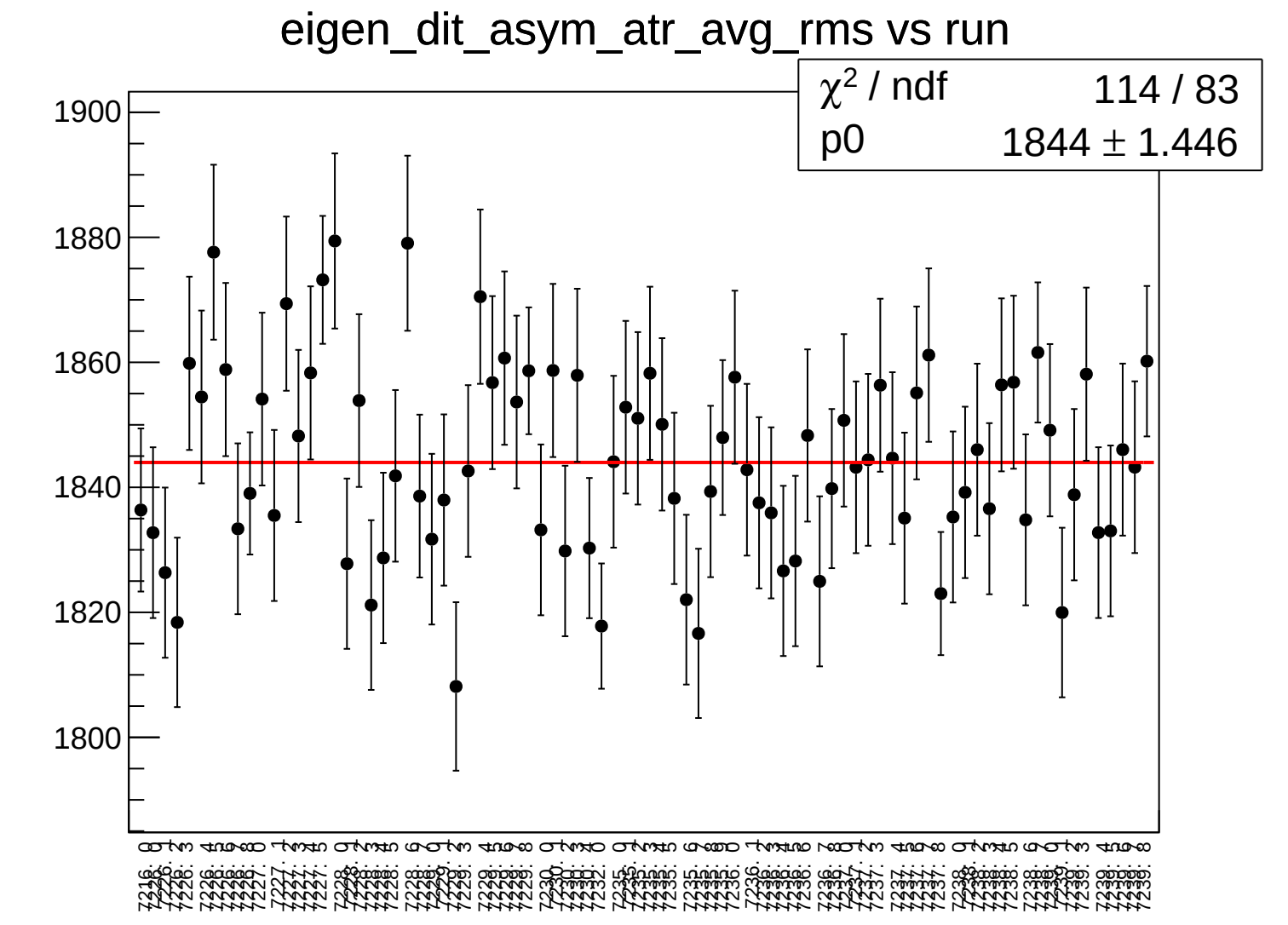

dit_asym_atr_avg_rms vs run
χ² / ndf 114 / 83
p0 1844 ± 1.446
1900
1880
1860
1840
1820
1800

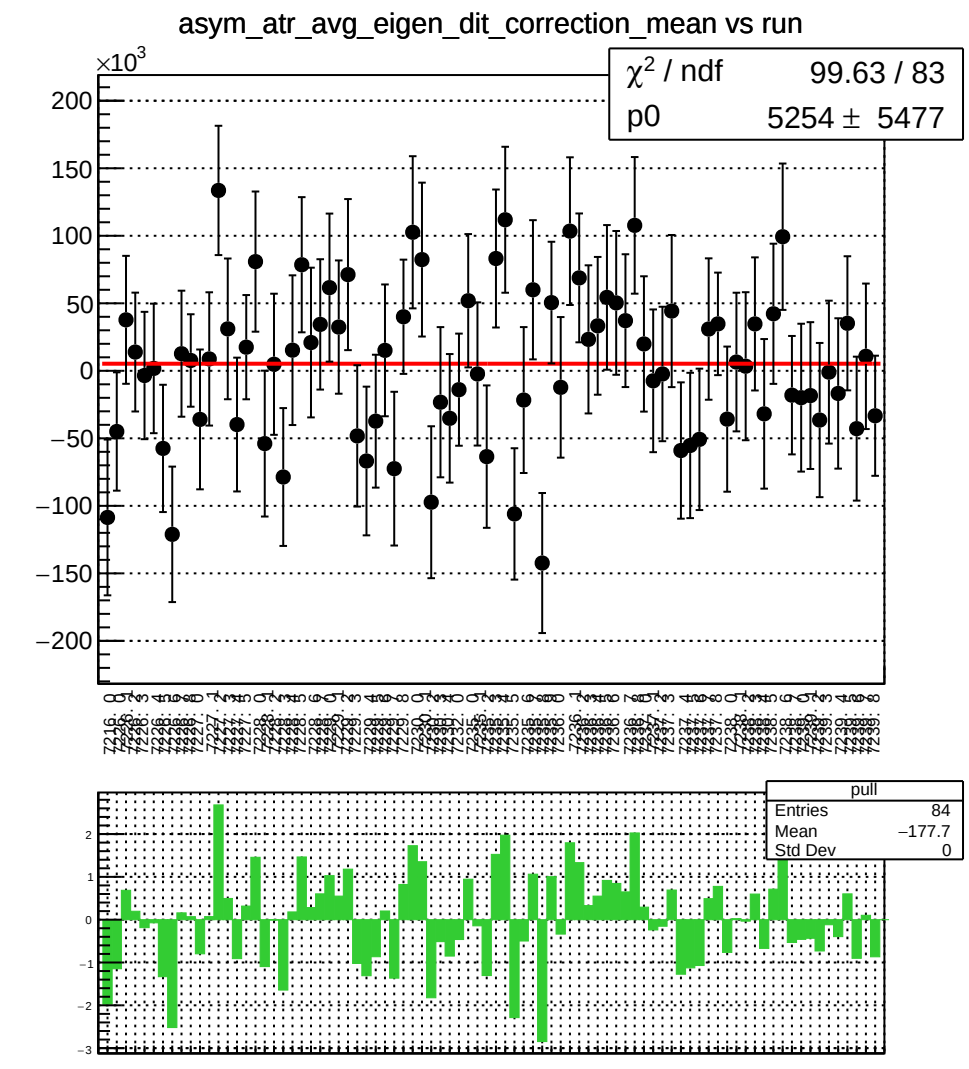

asym_atr_avg_dit_correction_mean vs run
×10^3
χ² / ndf 99.63 / 83
p0 5254 ± 5477
pull
Entries 84
Mean −177.7
Std Dev 0

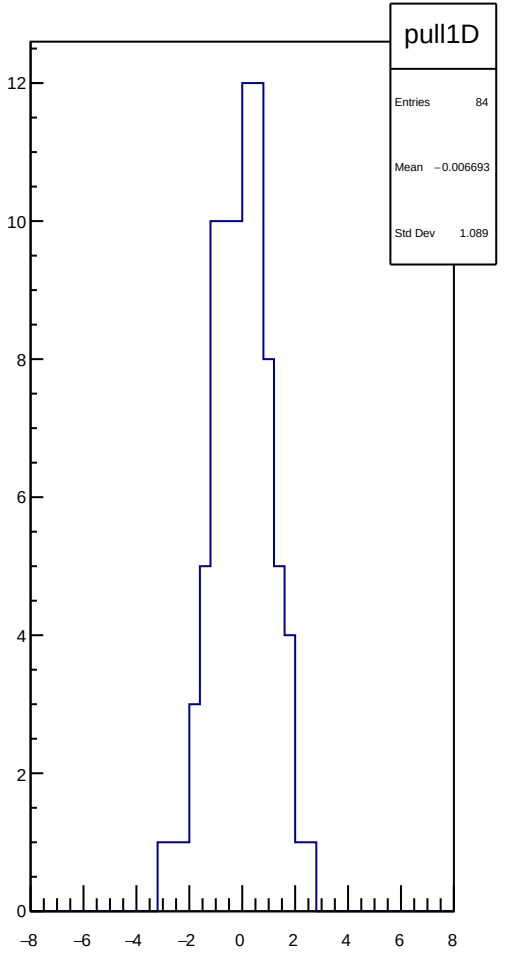

pull1D
Entries 84
Mean −0.006693
Std Dev 1.089

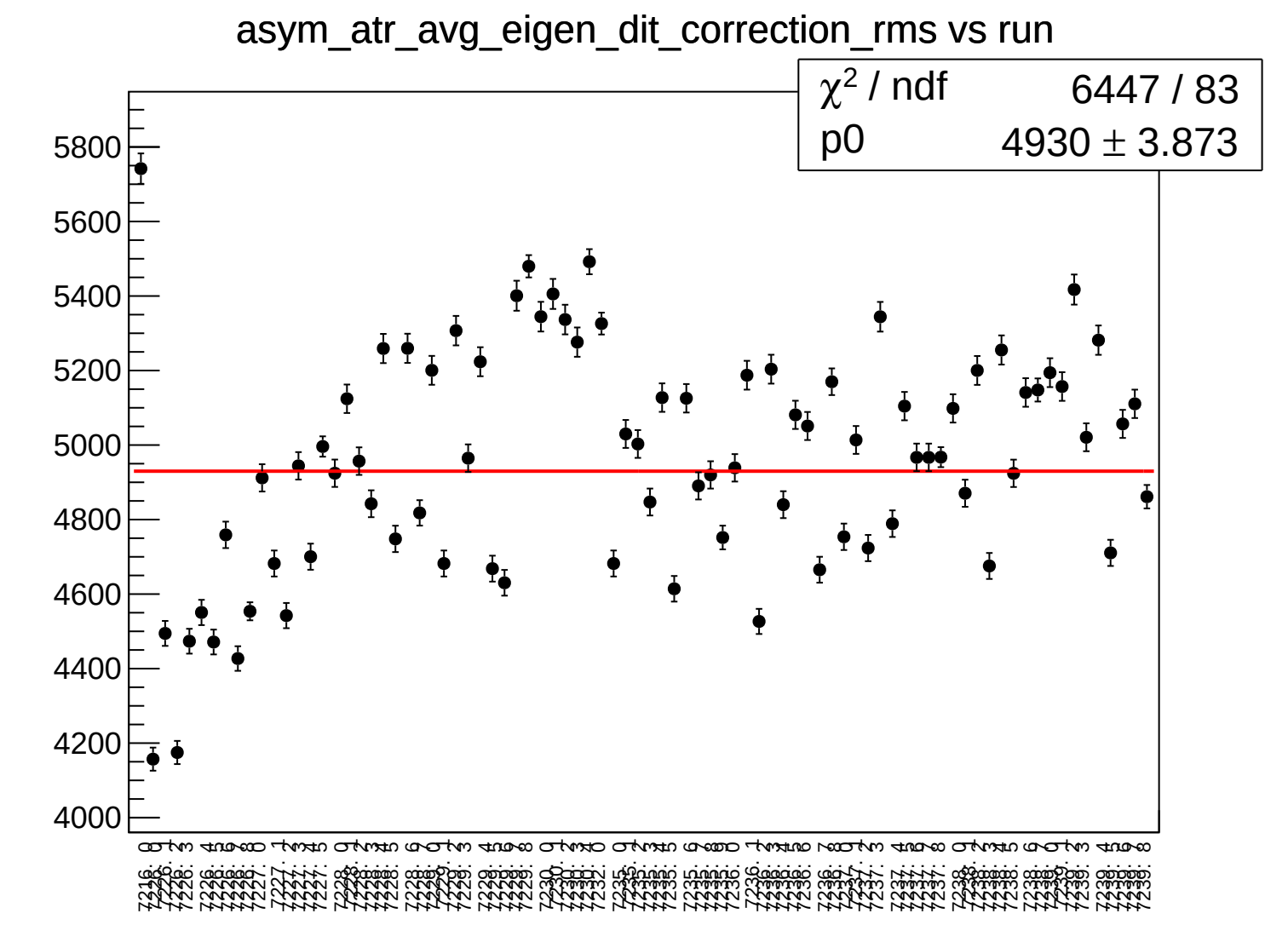

asym_atr_avg_dit_correction_rms vs run
χ² / ndf 6447 / 83
p0 4930 ± 3.873
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000

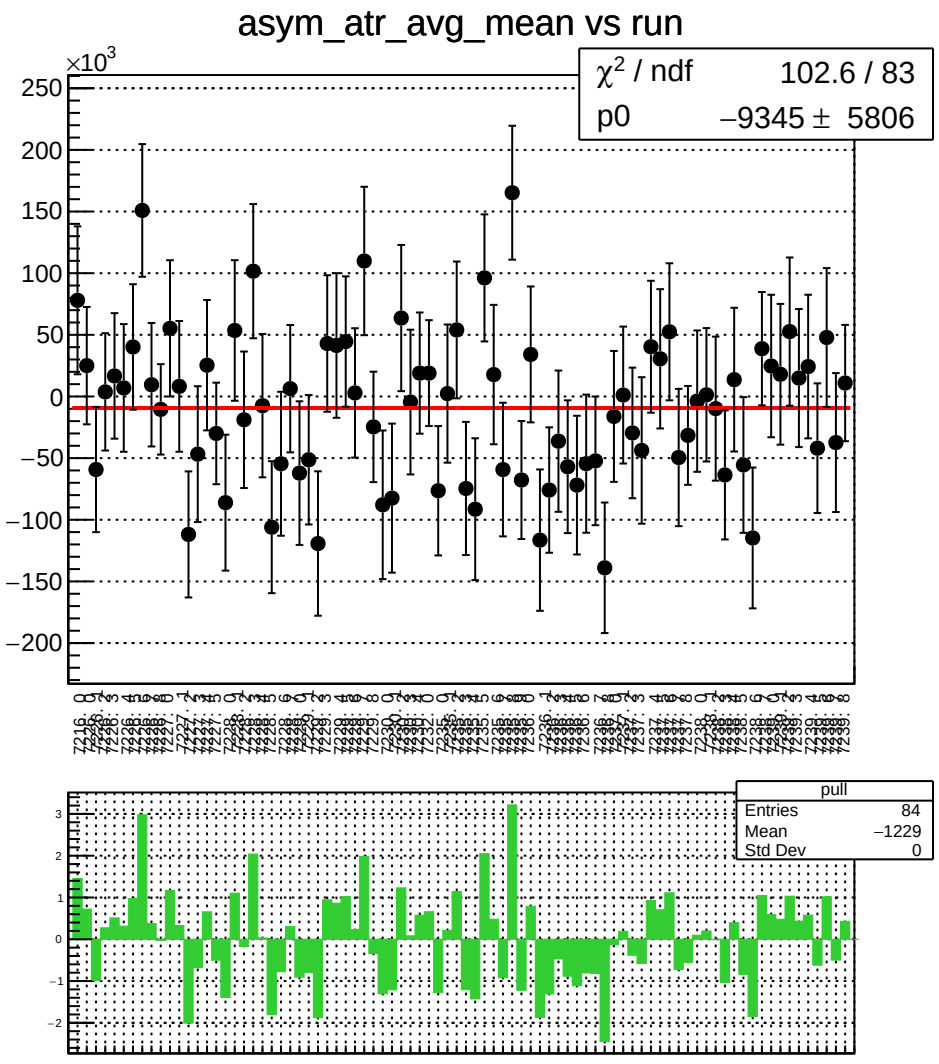

eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 81.06 / 83
p0 −4297 ± 2045
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 473.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.007396
Std Dev 0.9823
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

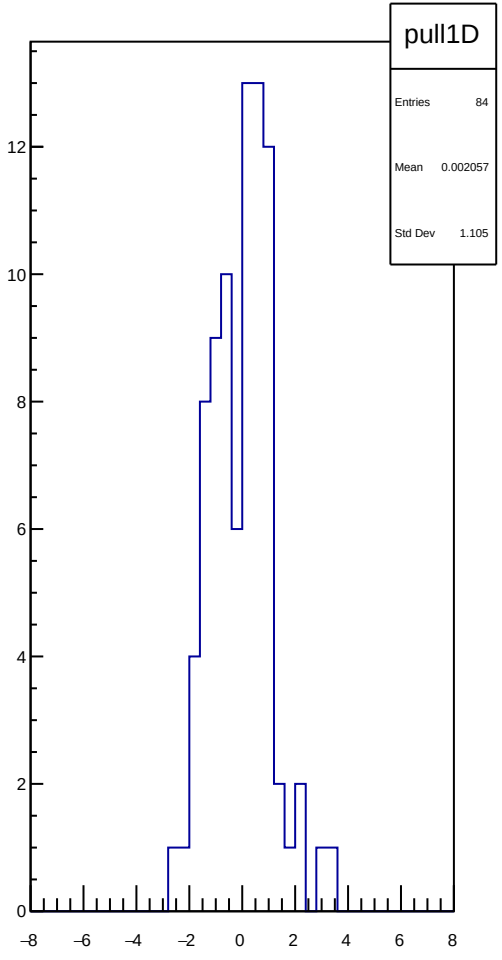

eigen_dit_asym_atr_avg_rms vs run
χ² / ndf 114 / 83
p0 1844 ± 1.446
1900
1880
1860
1840
1820
1800

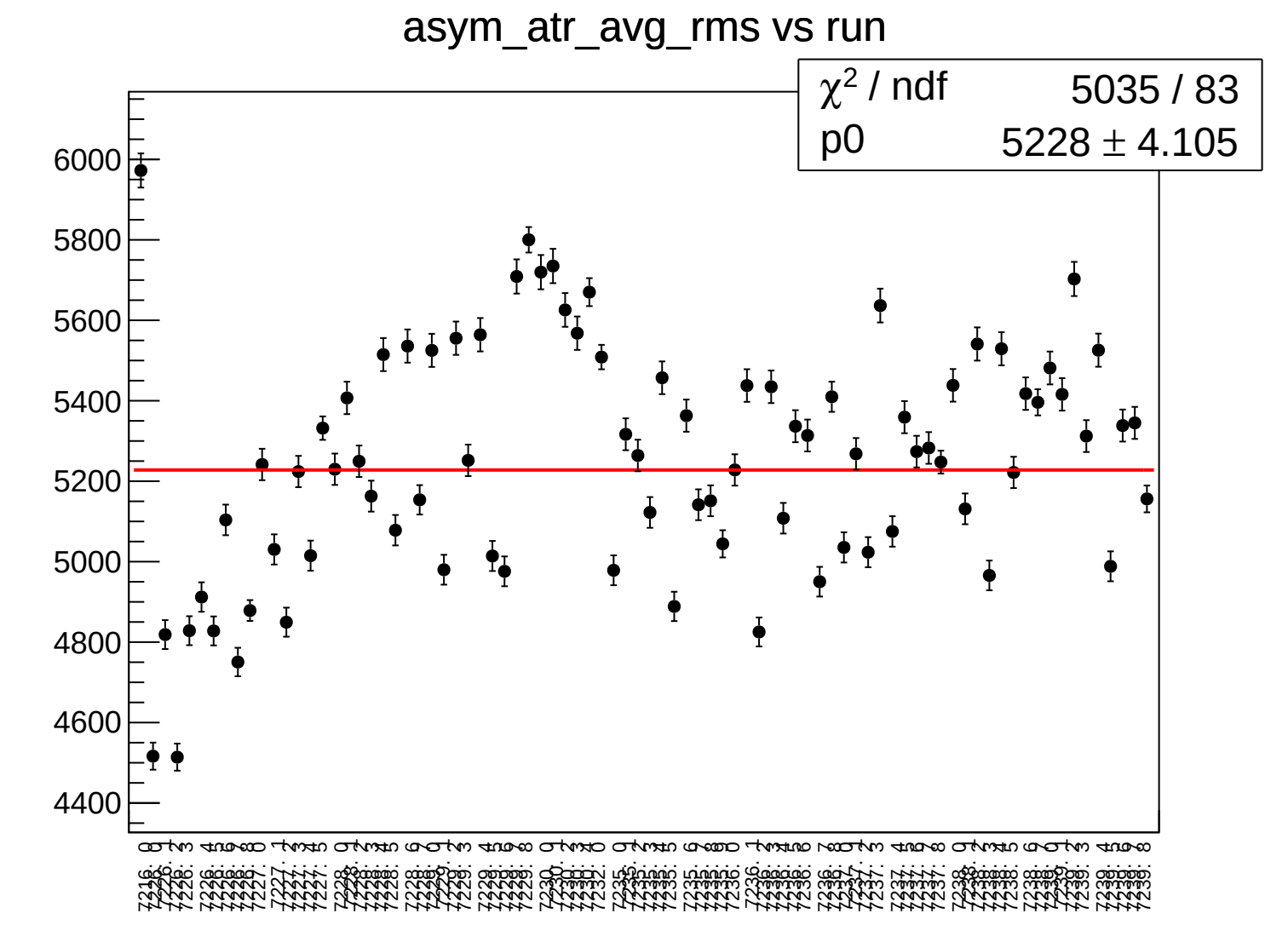

asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 99.63 / 83
p0 5254 ± 5477
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 84
Mean −177.7
Std Dev 0
2
1
0
−1
−2
−3

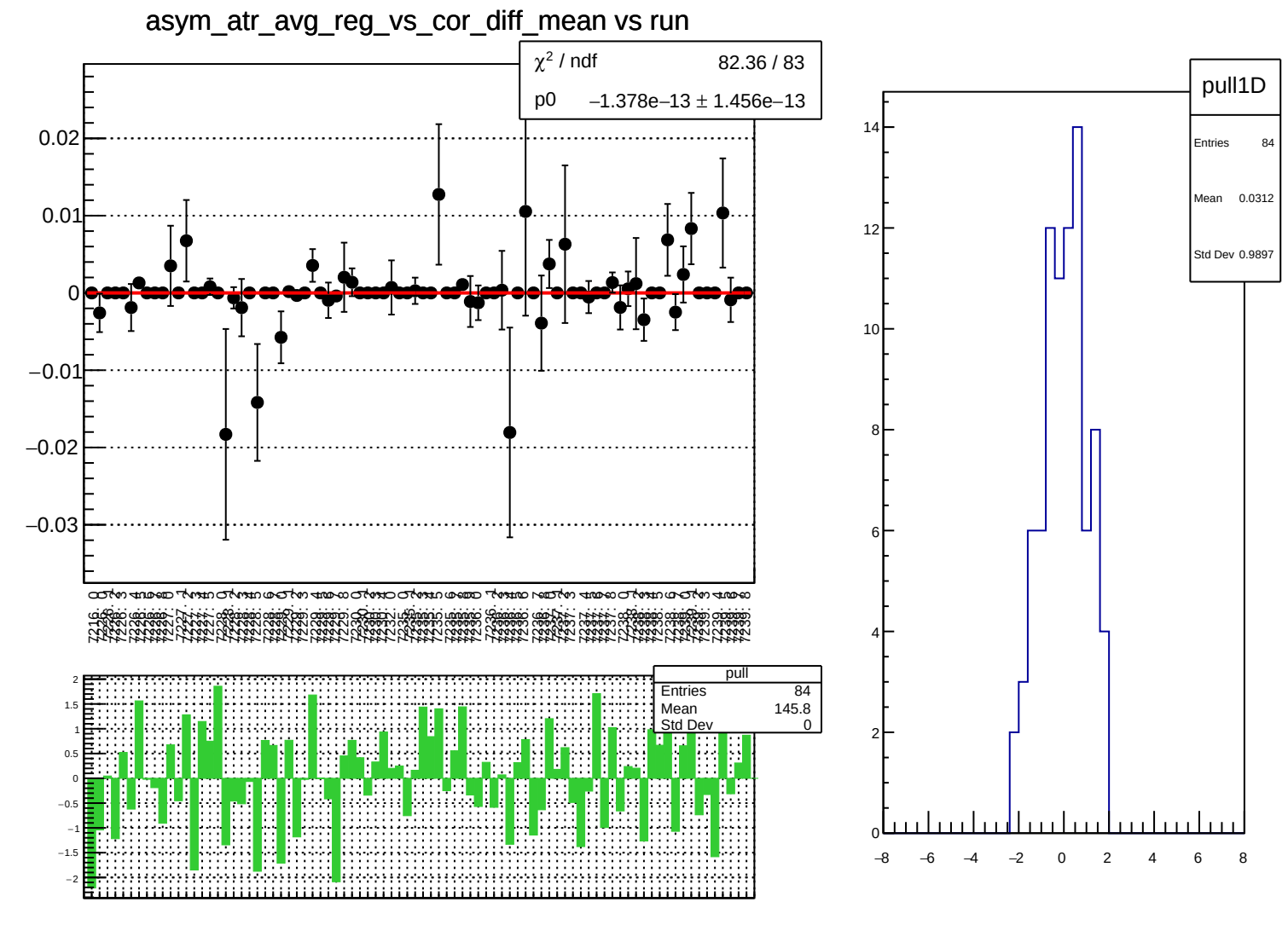

pull1D
Entries 84
Mean −0.006693
Std Dev 1.089
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

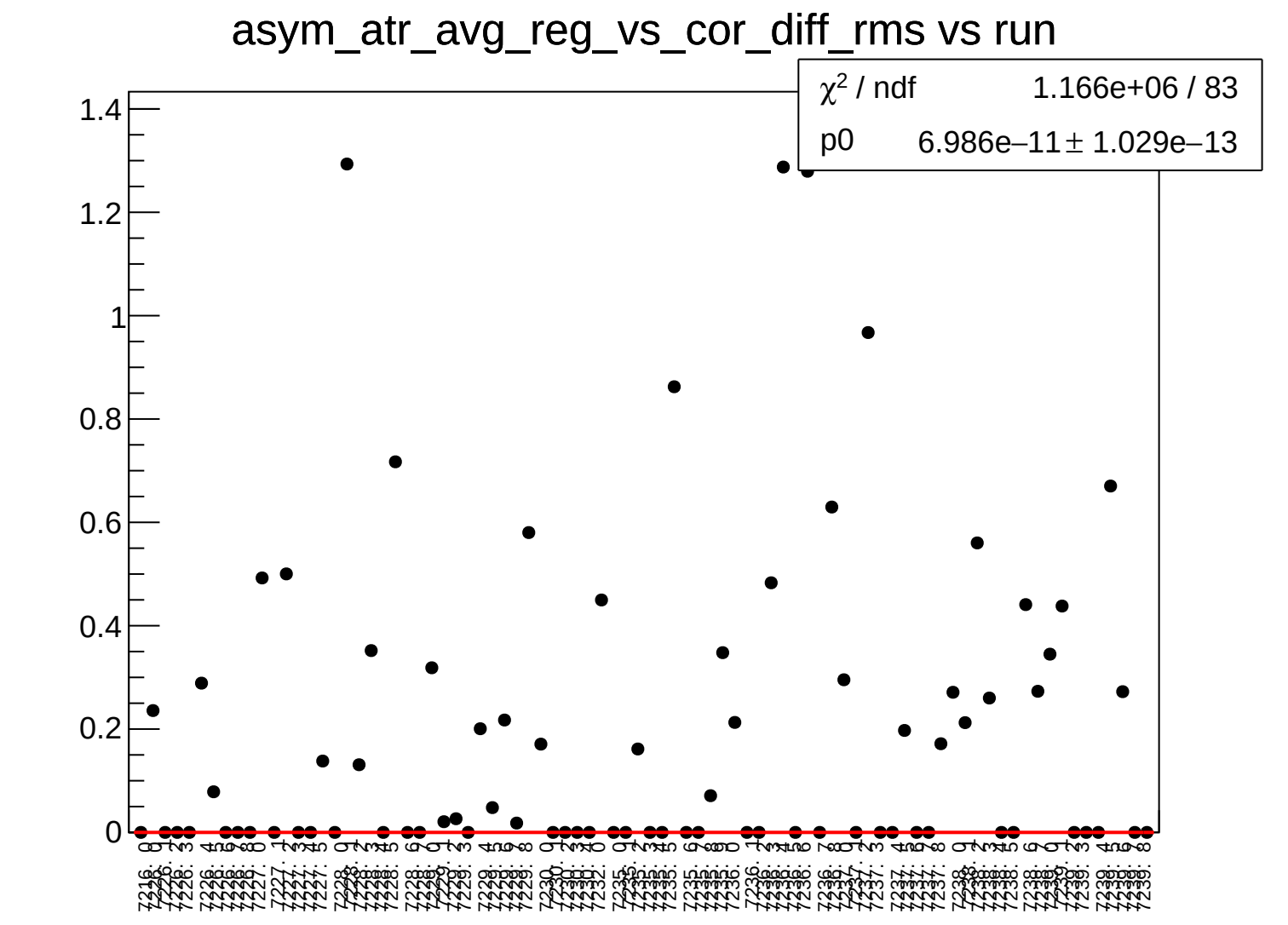

asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 6447 / 83
p0 4930 ± 3.873
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000

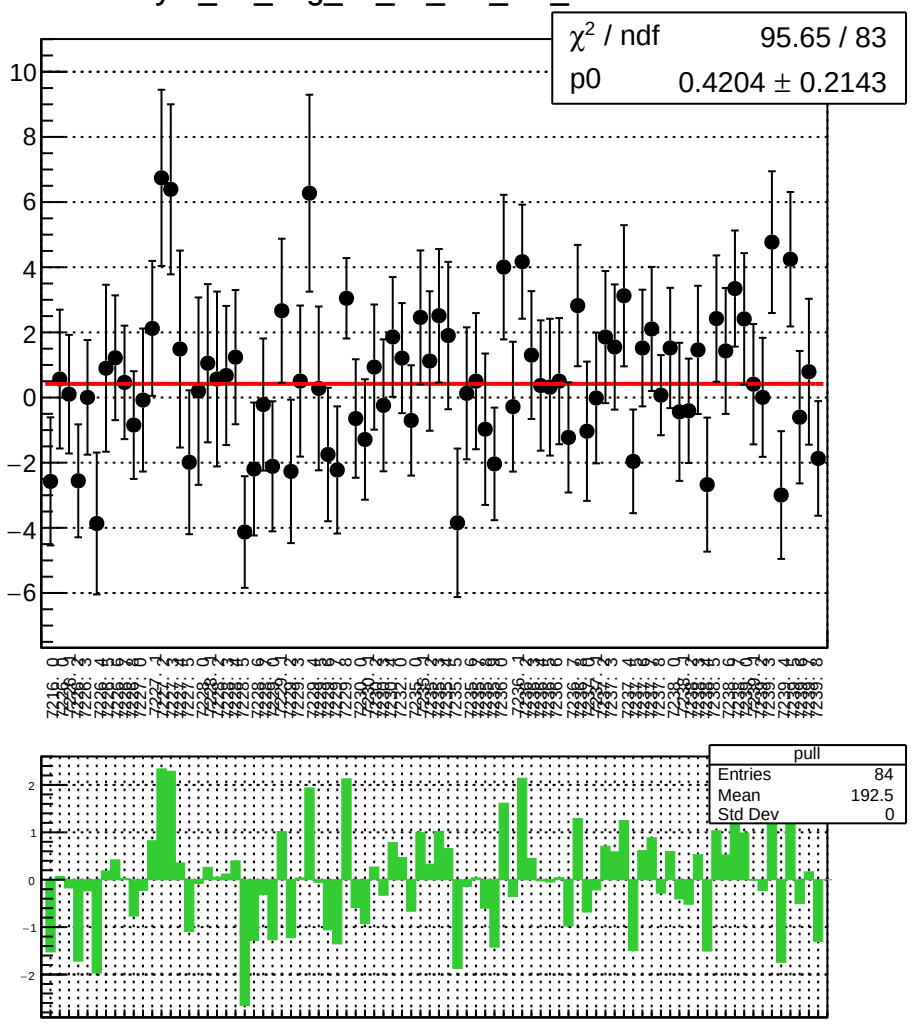

asym_atr_avg_mean vs run
×10^3
χ² / ndf 102.6 / 83
p0 −9345 ± 5806
250
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 84
Mean −1229
Std Dev 0
3
2
1
0
−1
−2

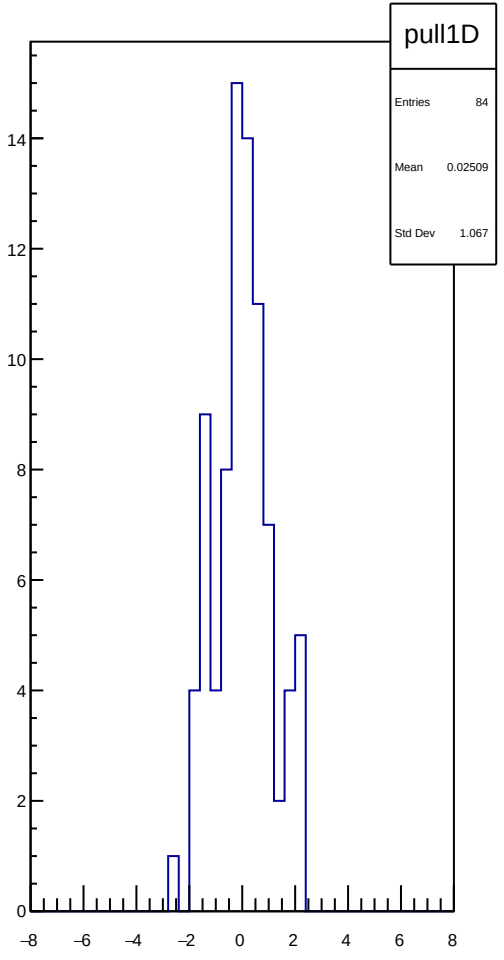

pull1D
Entries 84
Mean 0.002057
Std Dev 1.105
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

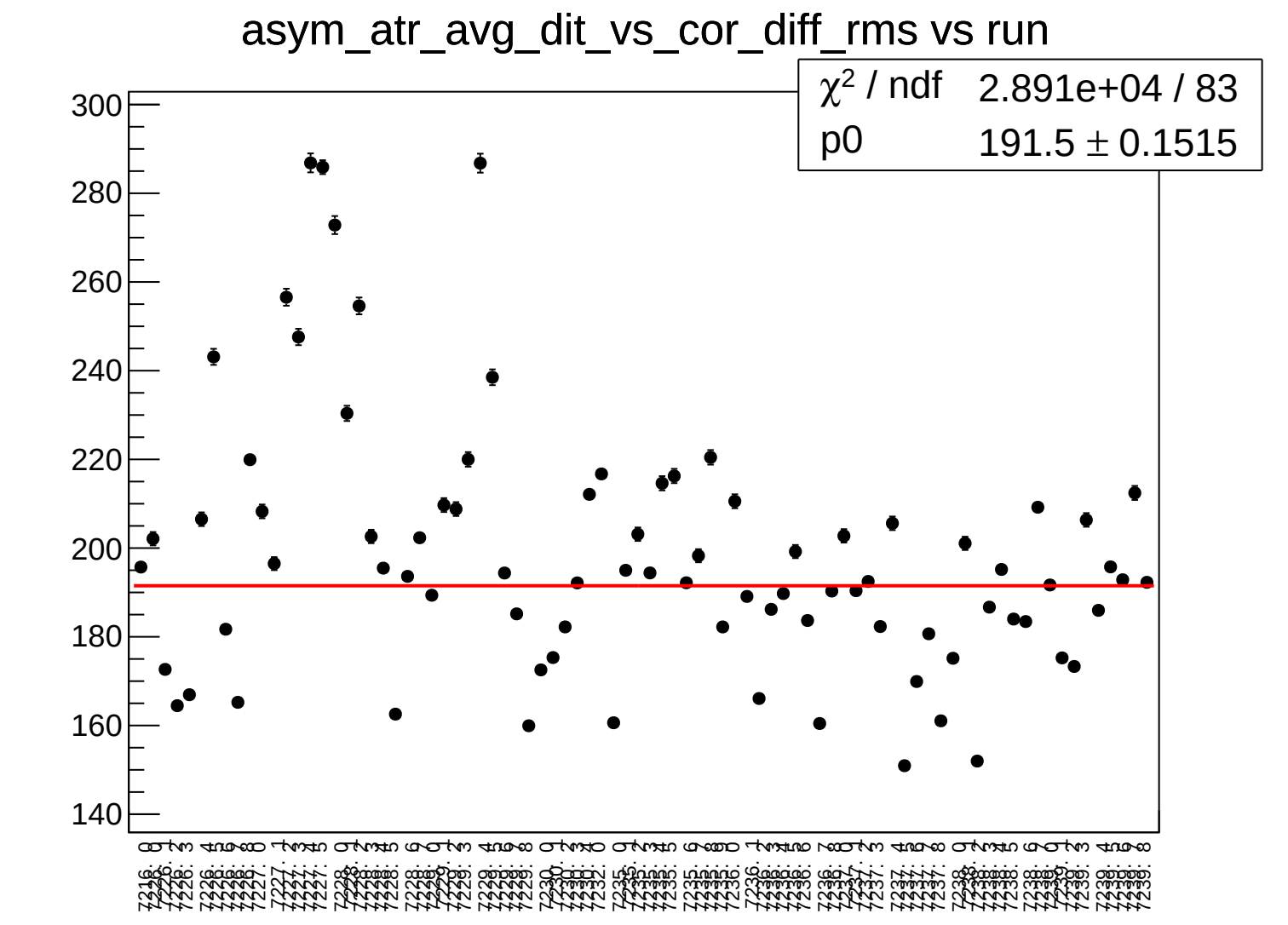

asym_atr_avg_rms vs run
χ^2 / ndf 5035 / 83
p0 5228 ± 4.105
6000
5800
5600
5400
5200
5000
4800
4600
4400

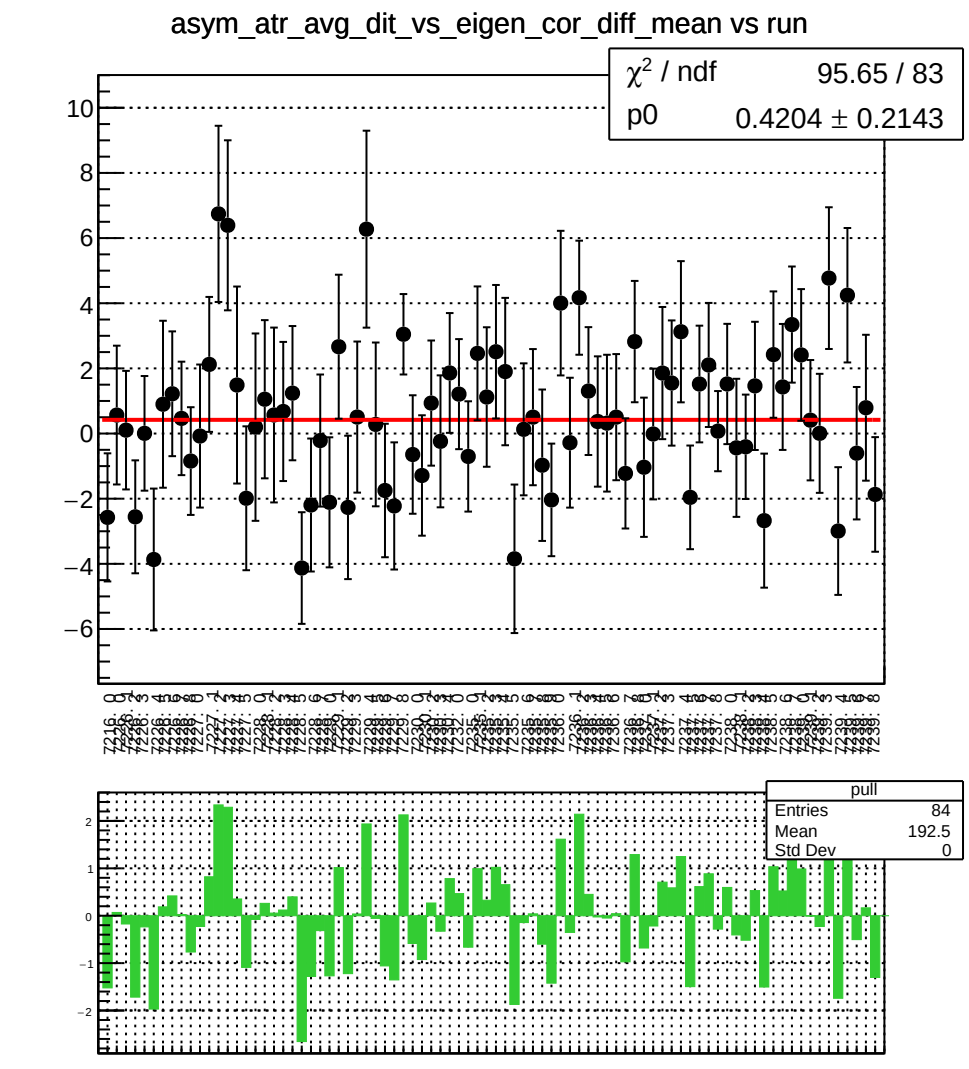

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 82.36 / 83
p0 −1.378e−13 ± 1.456e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 84
Mean 145.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 84
Mean 0.0312
Std Dev 0.9897
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

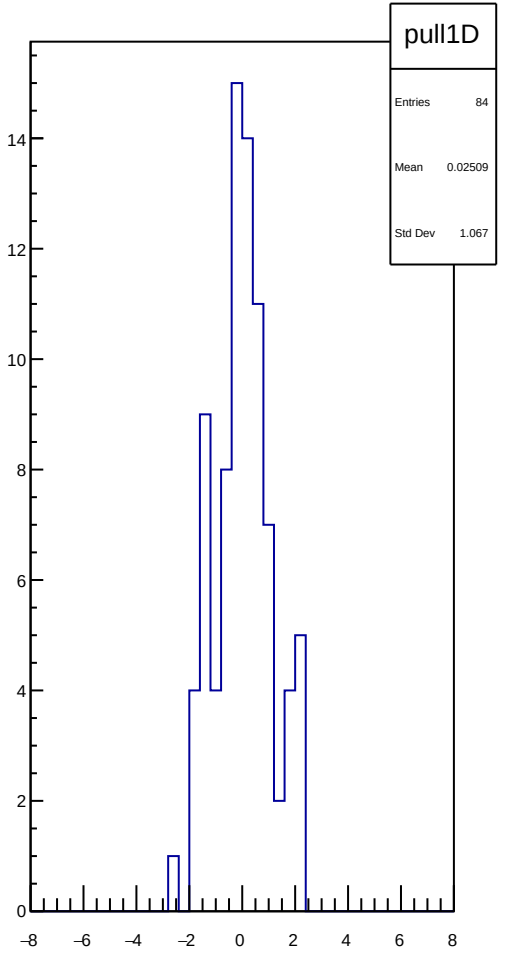

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.166e+06 / 83
p0 6.986e−11 ± 1.029e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

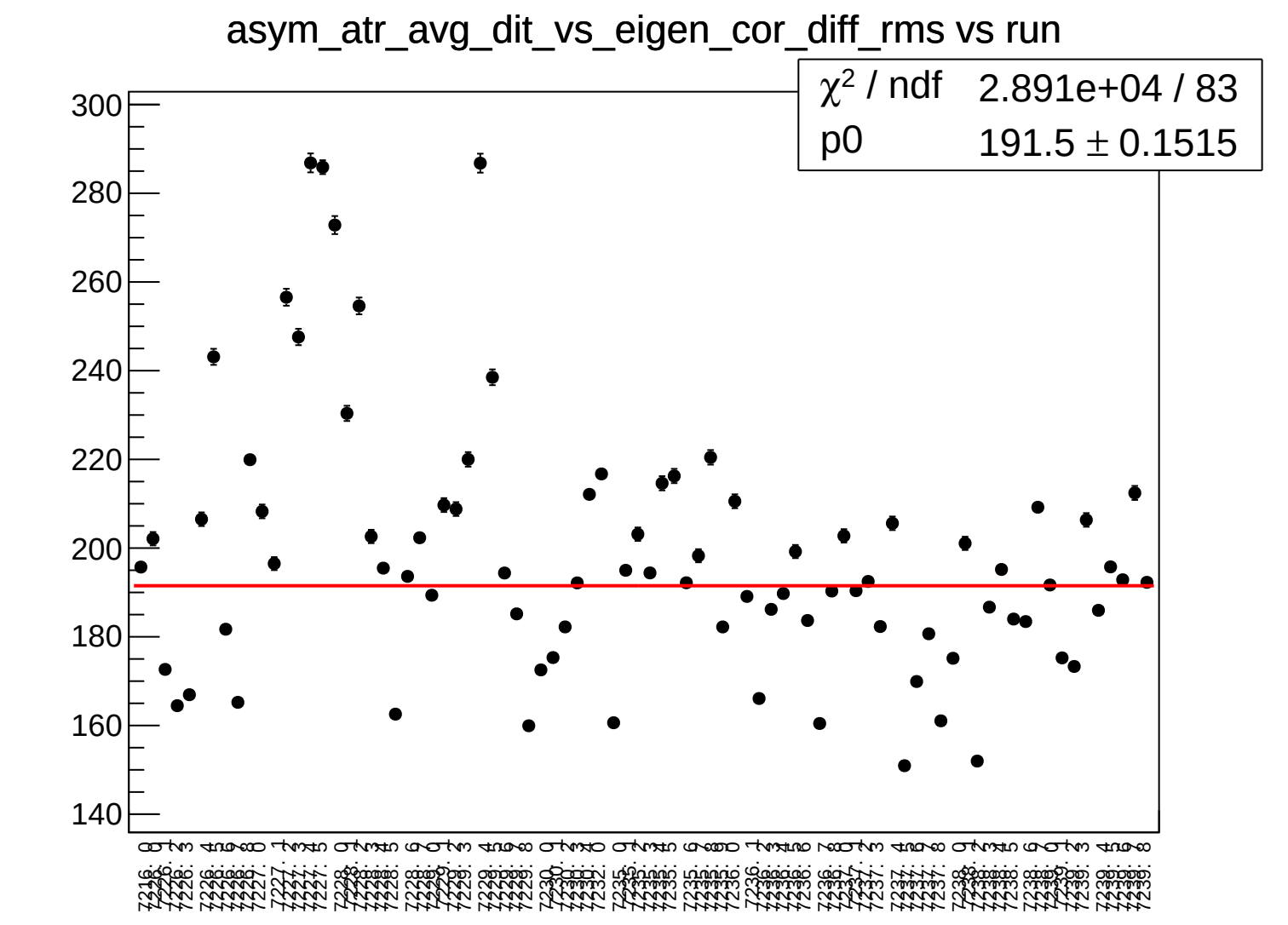

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 95.65 / 83
p0 0.4204 ± 0.2143
pull
Entries 84
Mean 192.5
Std Dev 0

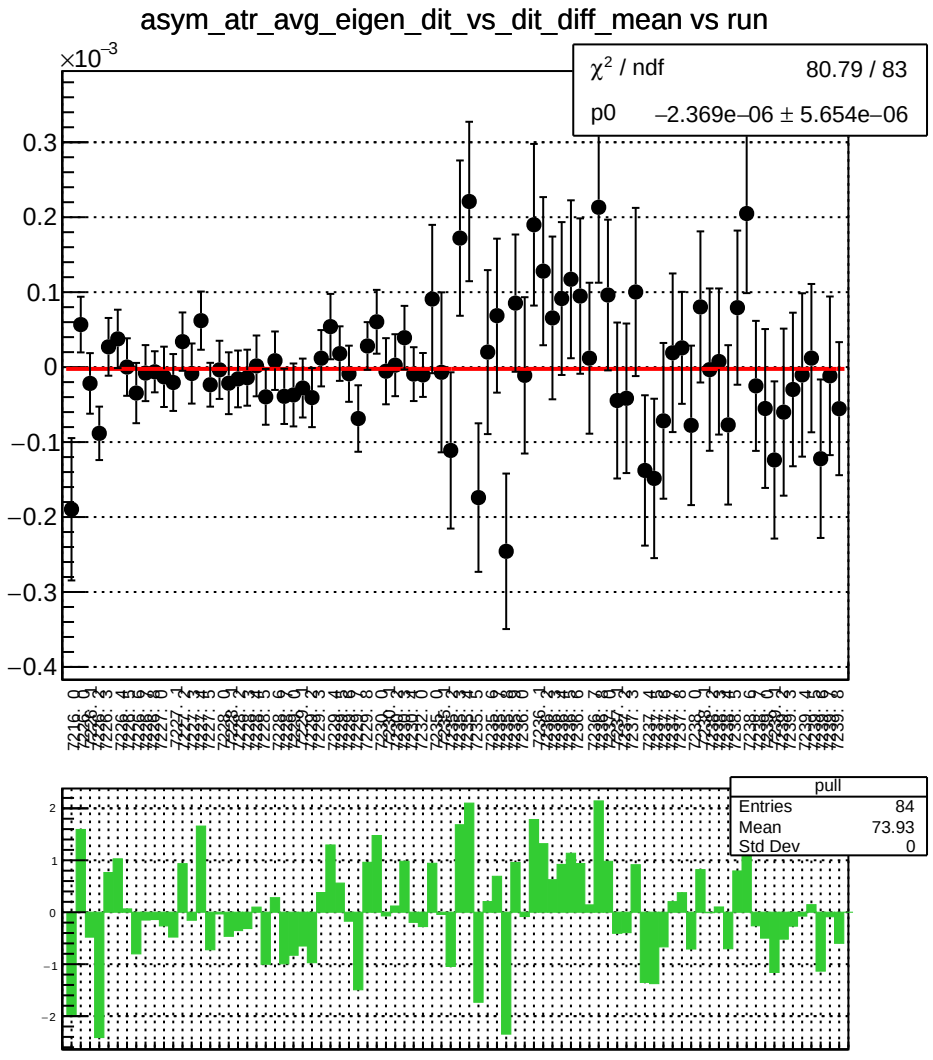

pull1D
Entries 84
Mean 0.02509
Std Dev 1.067

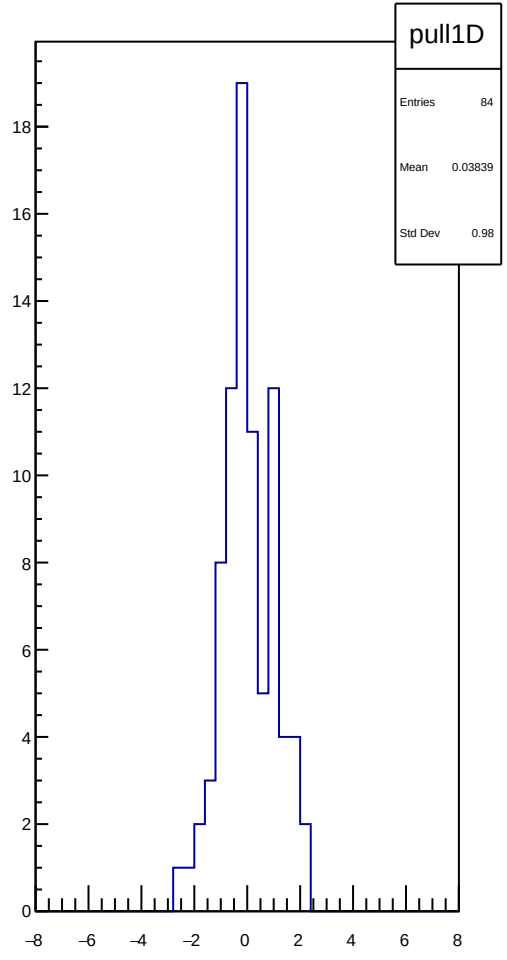

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.891e+04 / 83
p0 191.5 ± 0.1515
300
280
260
240
220
200
180
160
140

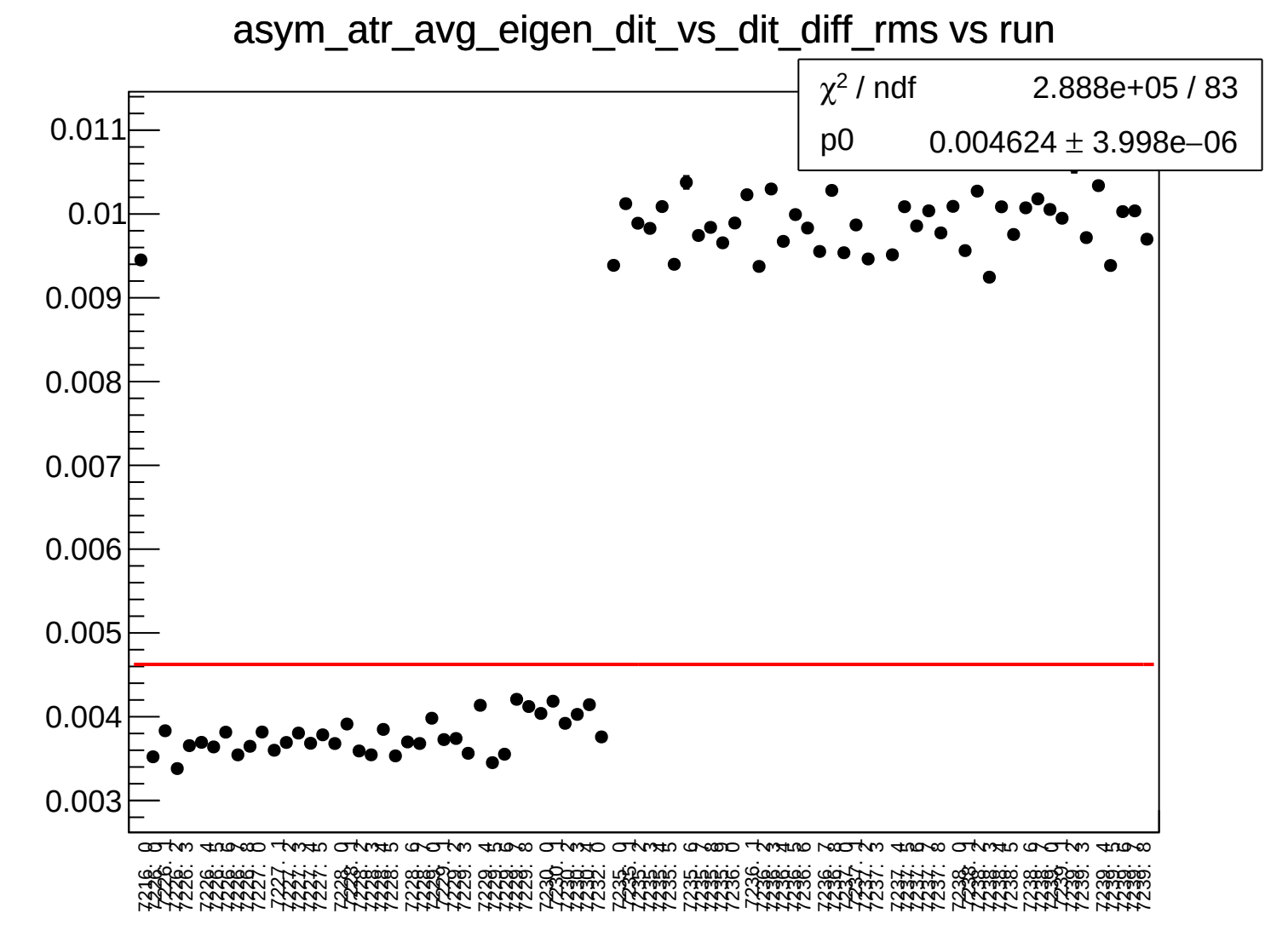

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.65 / 83
p0 0.4204 ± 0.2143
pull
Entries 84
Mean 192.5
Std Dev 0

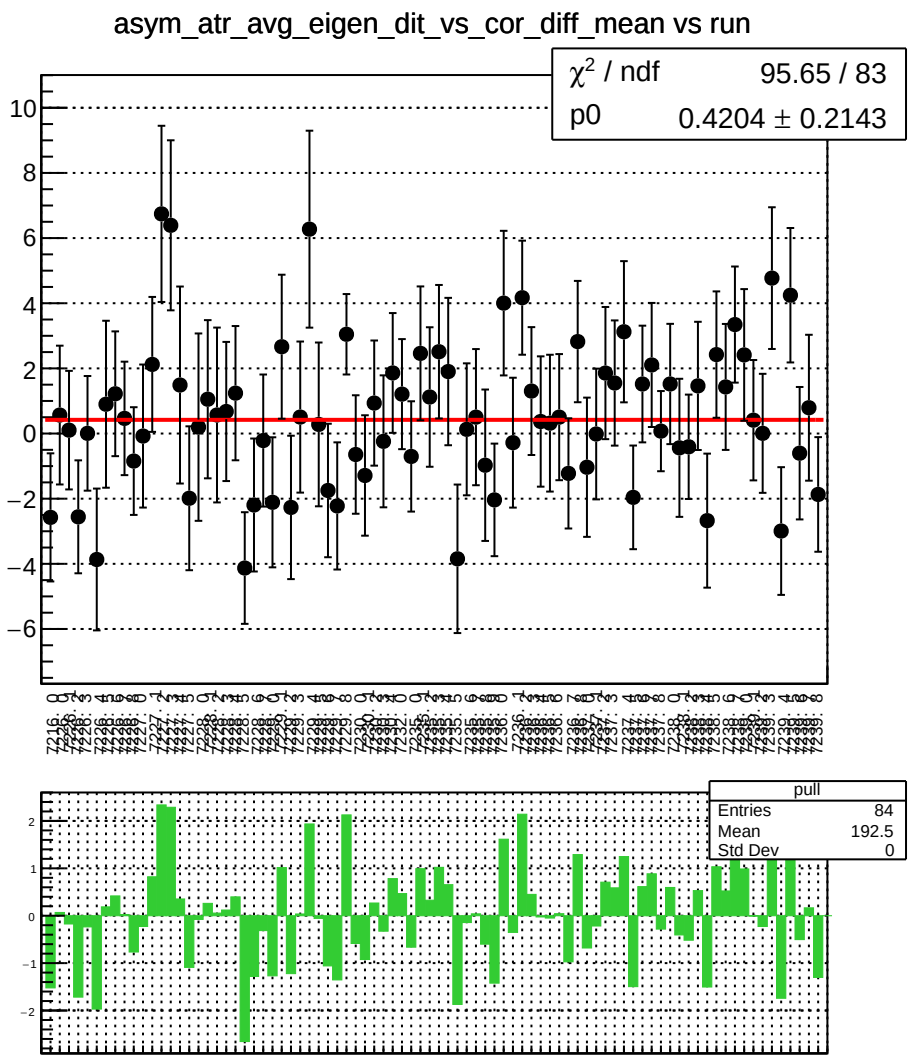

pull1D
Entries 84
Mean 0.02509
Std Dev 1.067

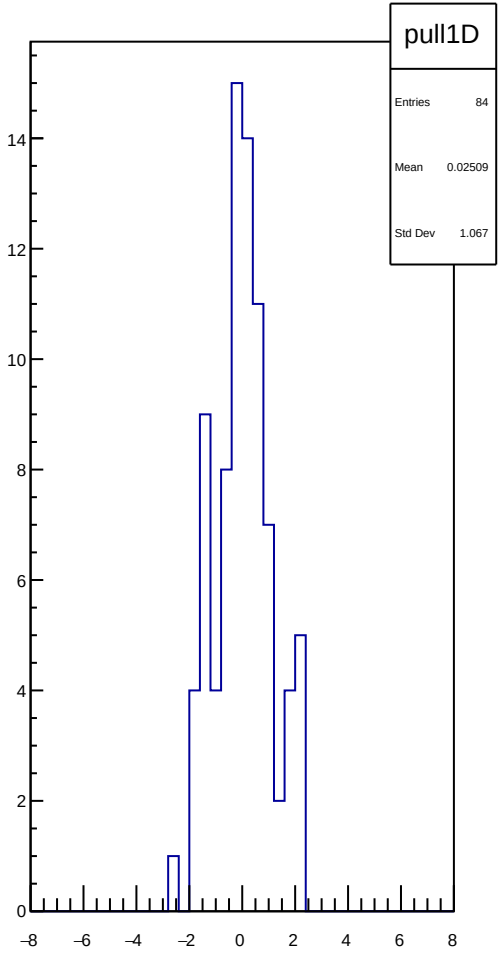

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.891e+04 / 83
p0 191.5 ± 0.1515
300
280
260
240
220
200
180
160
140

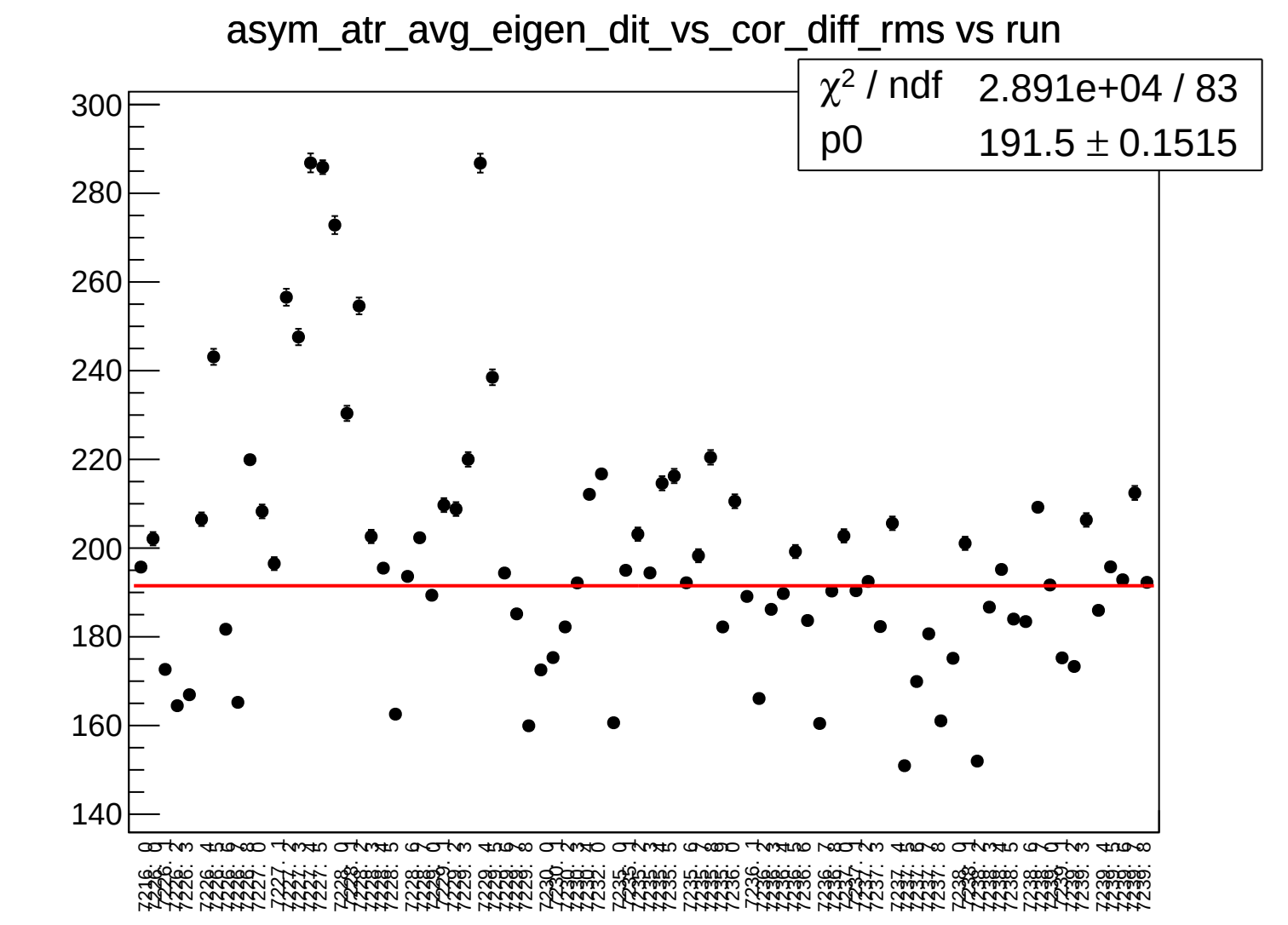

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.79 / 83
p0 −2.369e−06 ± 5.654e−06
pull
Entries 84
Mean 73.93
Std Dev 0

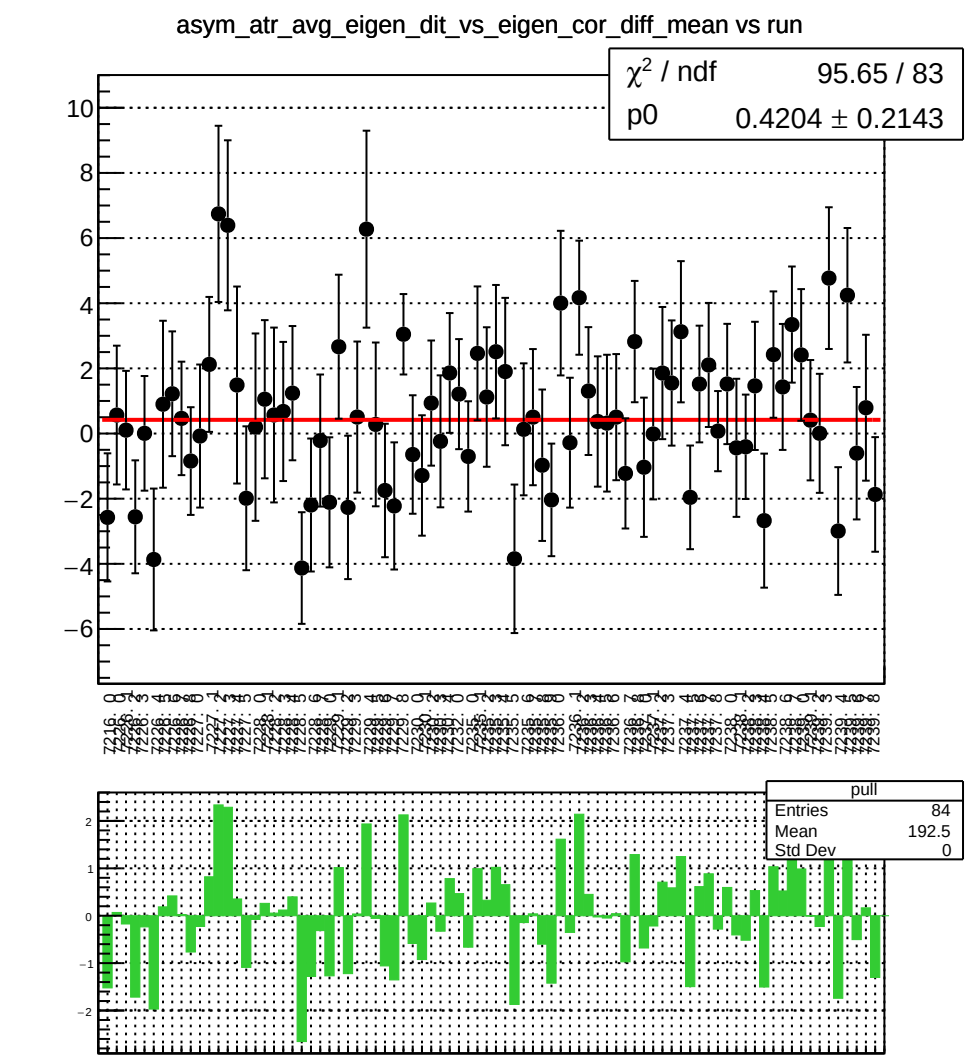

pull1D
Entries 84
Mean 0.03839
Std Dev 0.98

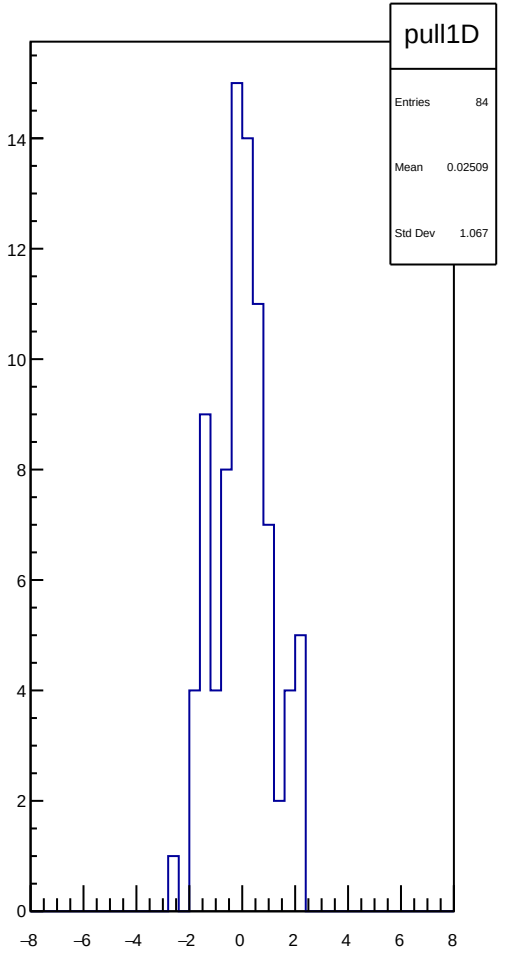

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.888e+05 / 83
p0 0.004624 ± 3.998e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

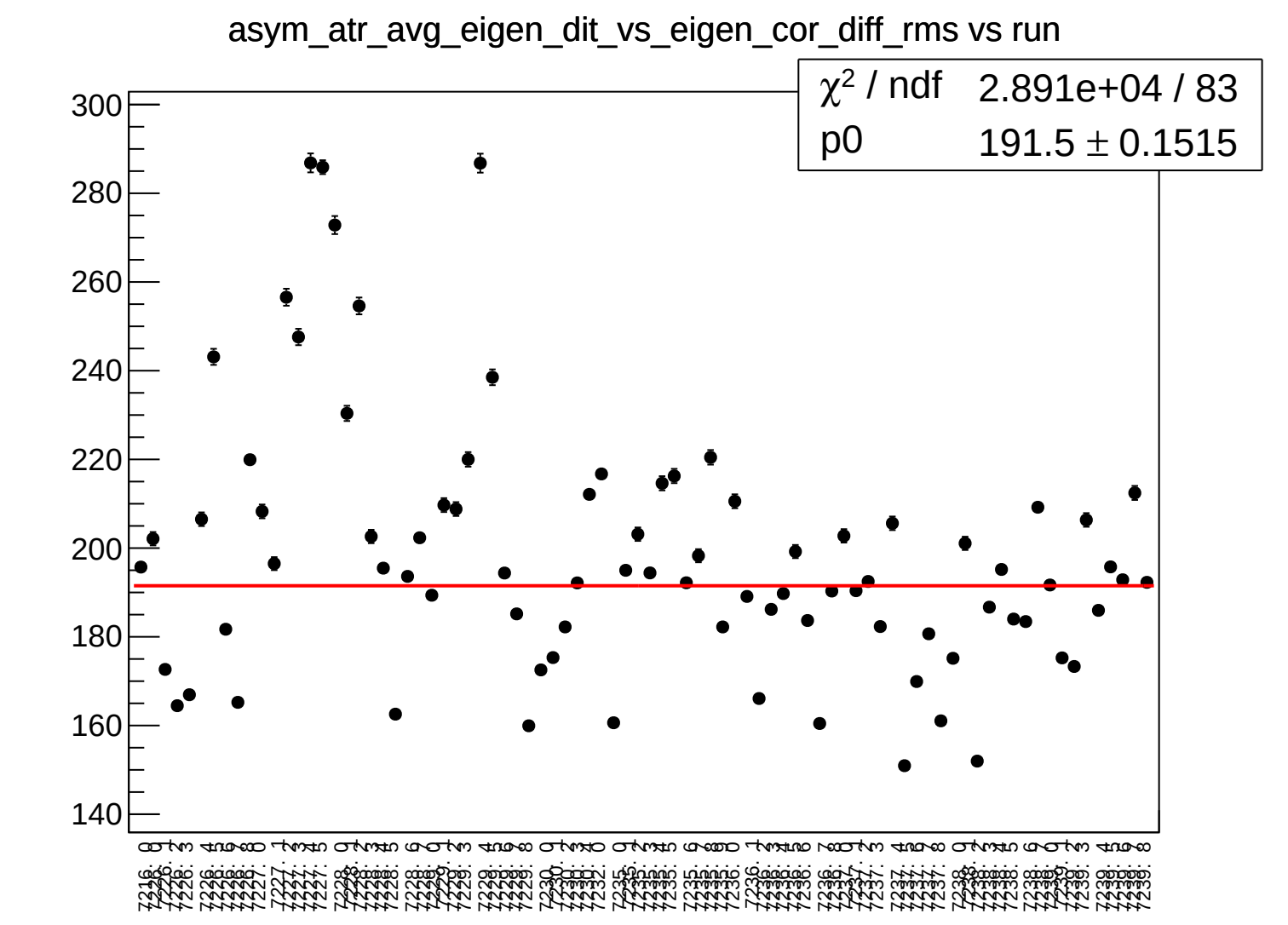

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.65 / 83
p0 0.4204 ± 0.2143
pull
Entries 84
Mean 192.5
Std Dev 0

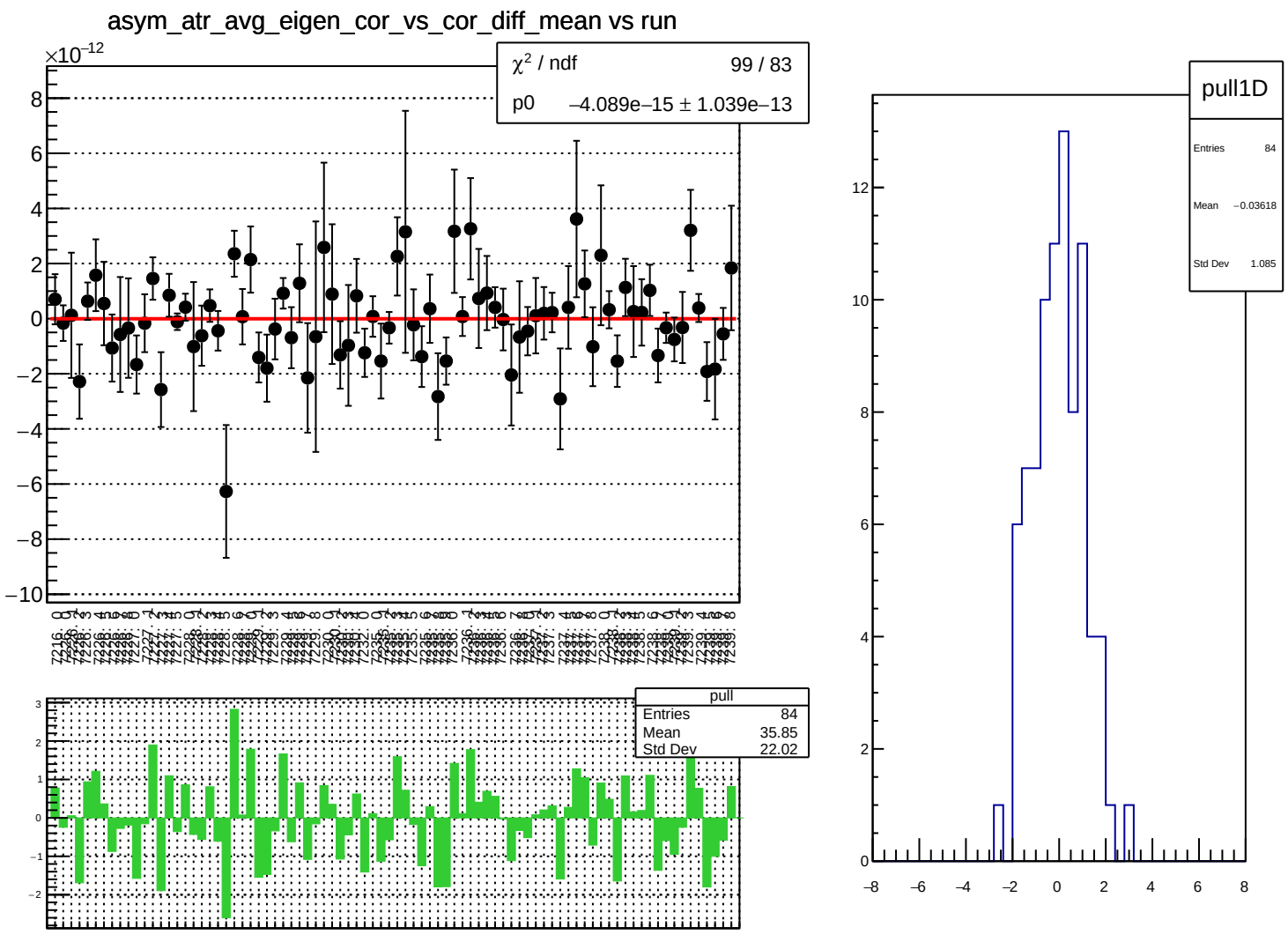

pull1D
Entries 84
Mean 0.02509
Std Dev 1.067

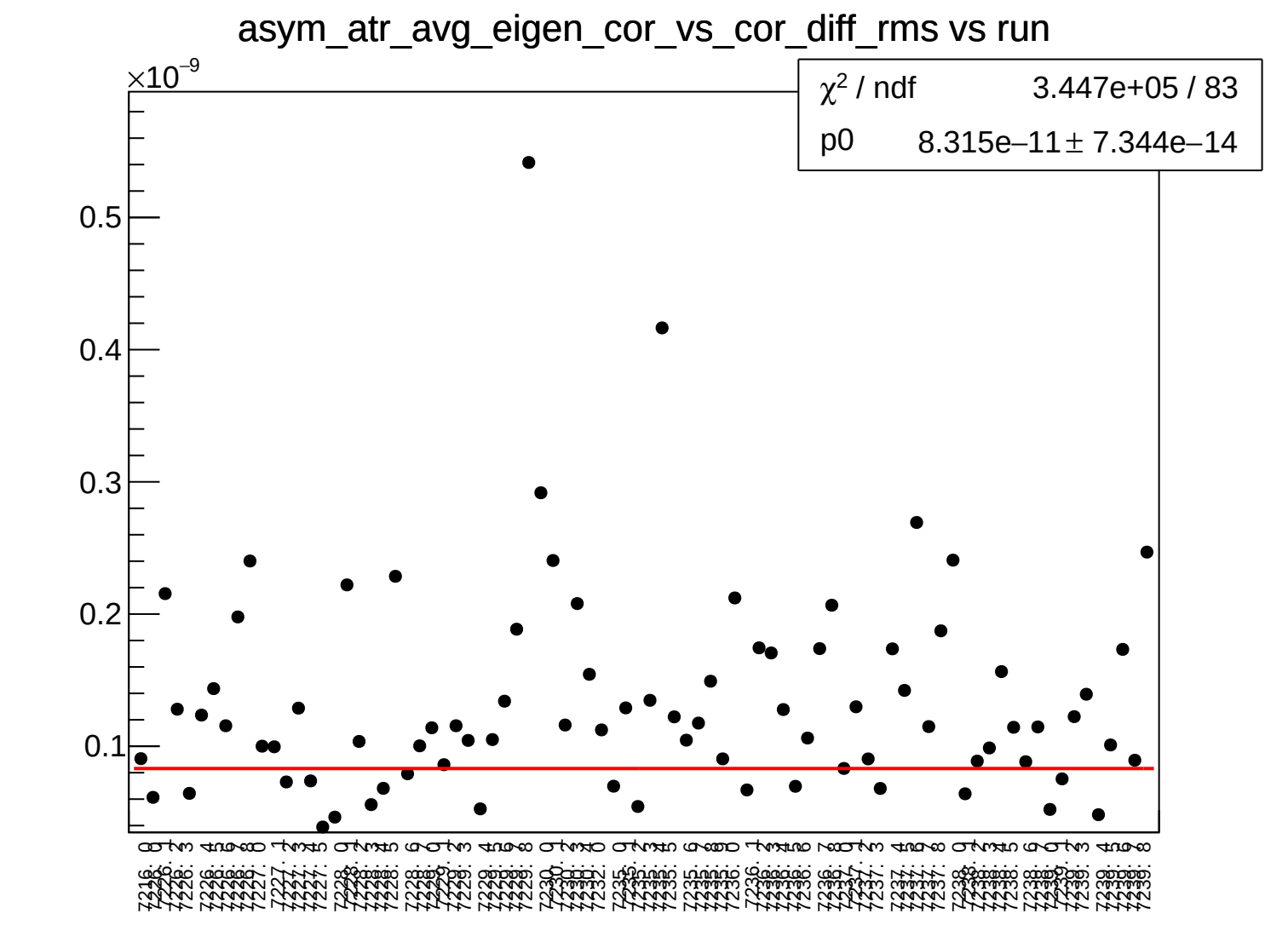

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.891e+04 / 83
p0 191.5 ± 0.1515
300
280
260
240
220
200
180
160
140

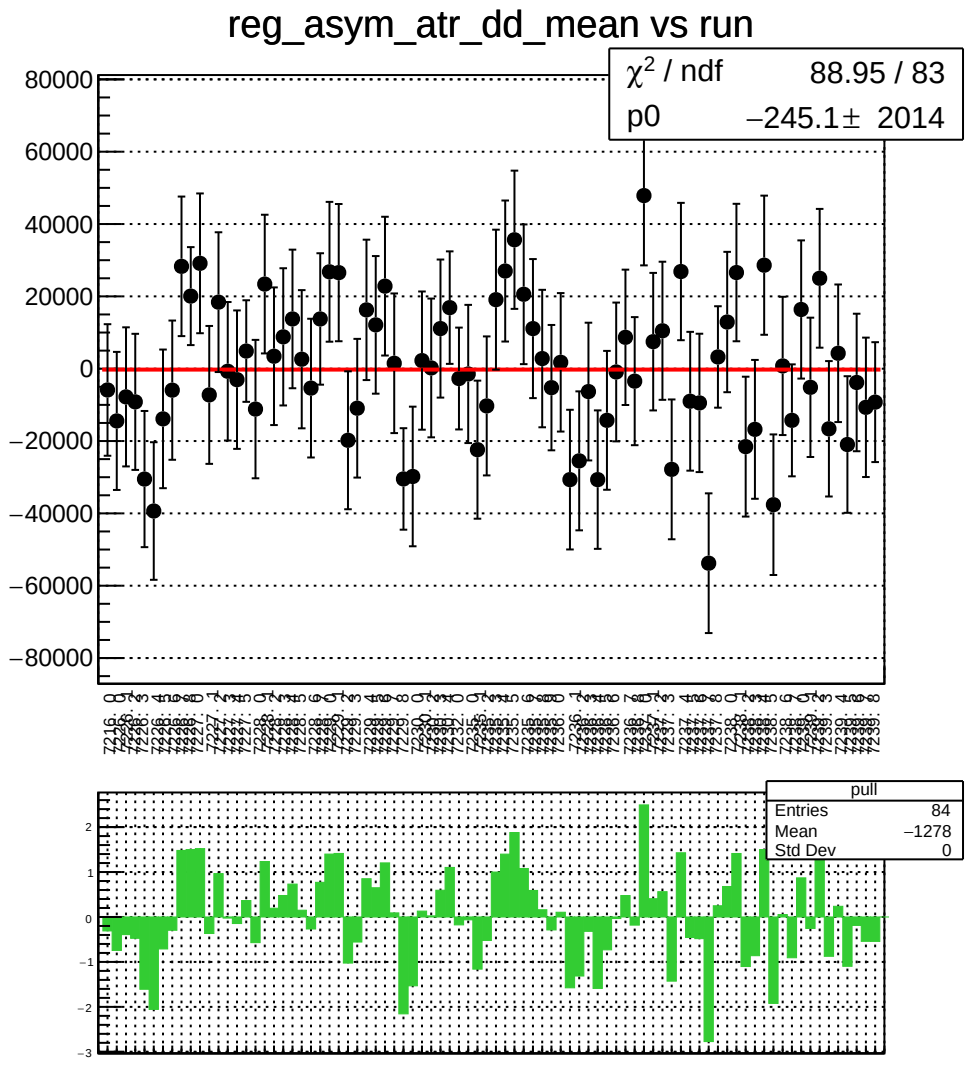

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.65 / 83
p0 0.4204 ± 0.2143
pull
Entries 84
Mean 192.5
Std Dev 0

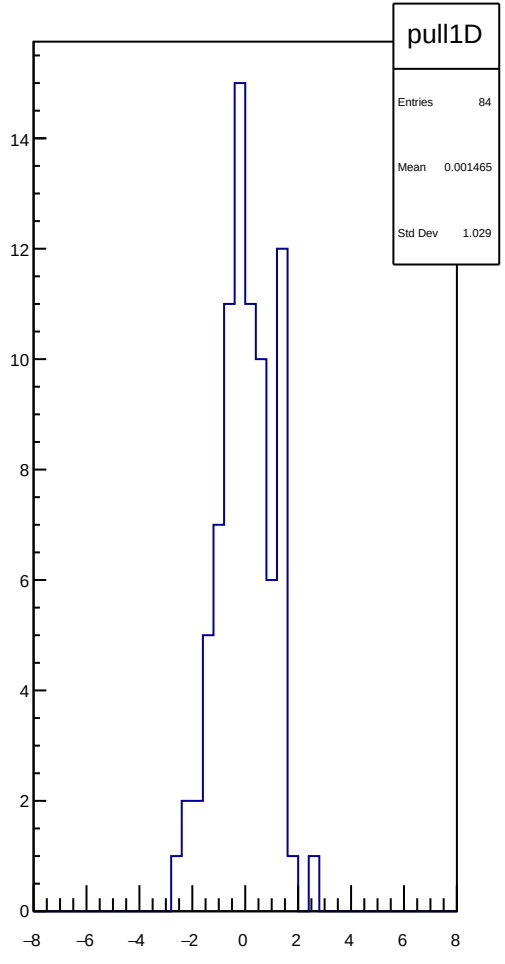

pull1D
Entries 84
Mean 0.02509
Std Dev 1.067

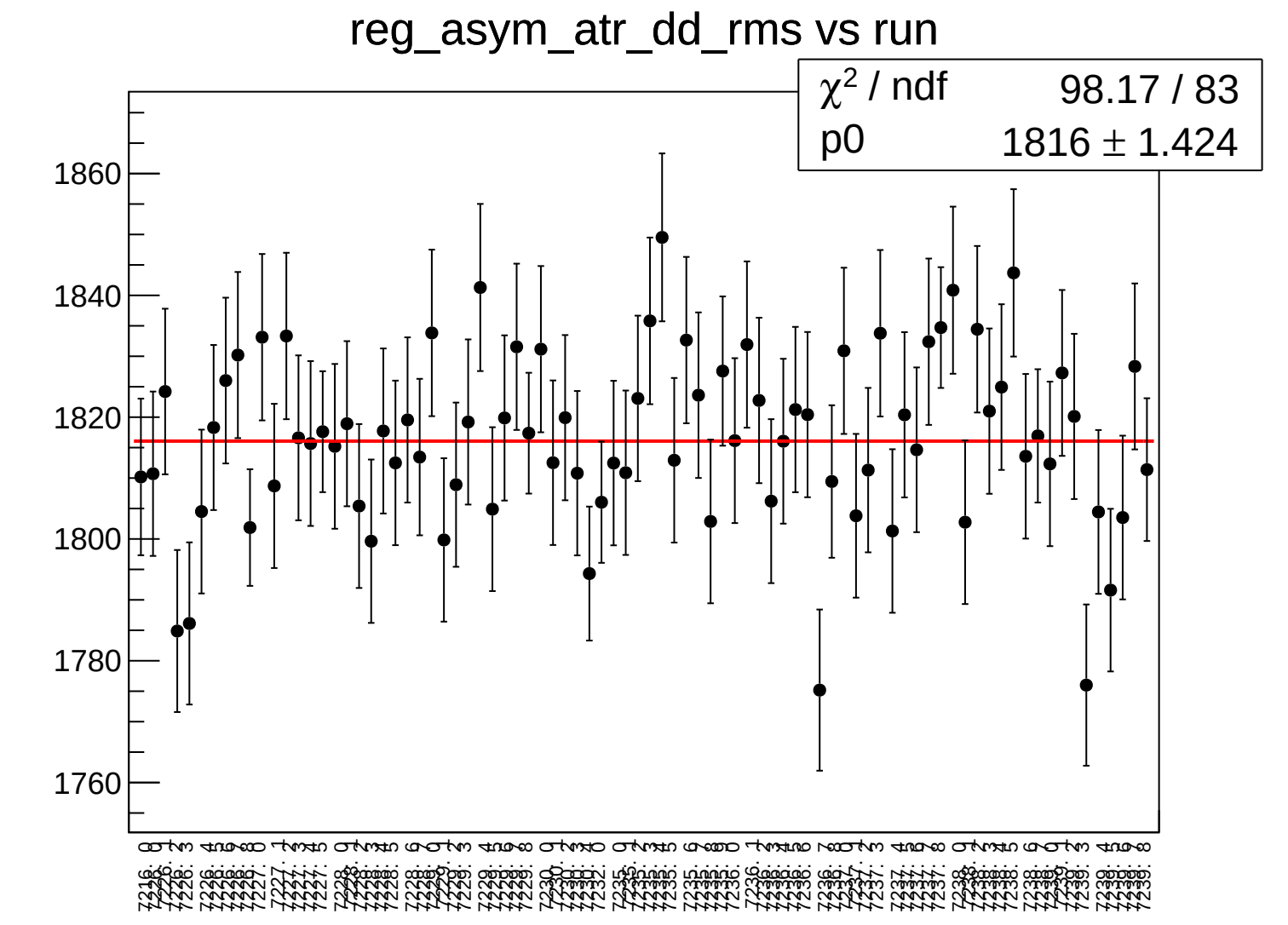

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.891e+04 / 83
p0 191.5 ± 0.1515
300
280
260
240
220
200
180
160
140

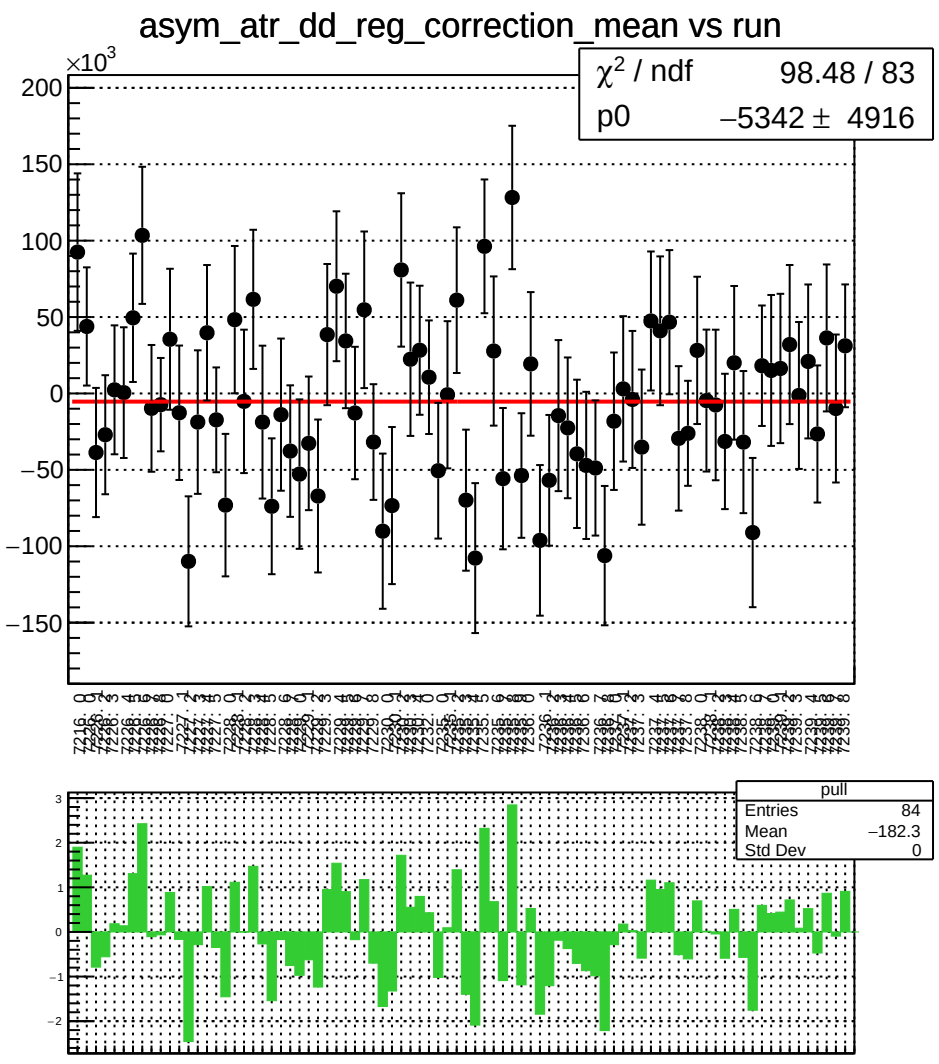

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99 / 83
p0 −4.089e−15 ± 1.039e−13
pull
Entries 84
Mean 35.85
Std Dev 22.02
pull1D
Entries 84
Mean −0.03618
Std Dev 1.085

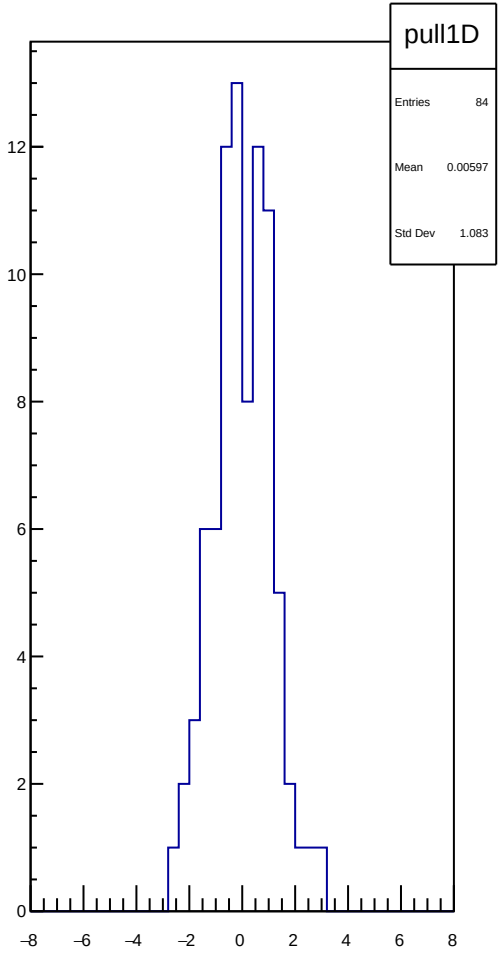

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.447e+05 / 83
p0 8.315e−11 ± 7.344e−14
0.5
0.4
0.3
0.2
0.1

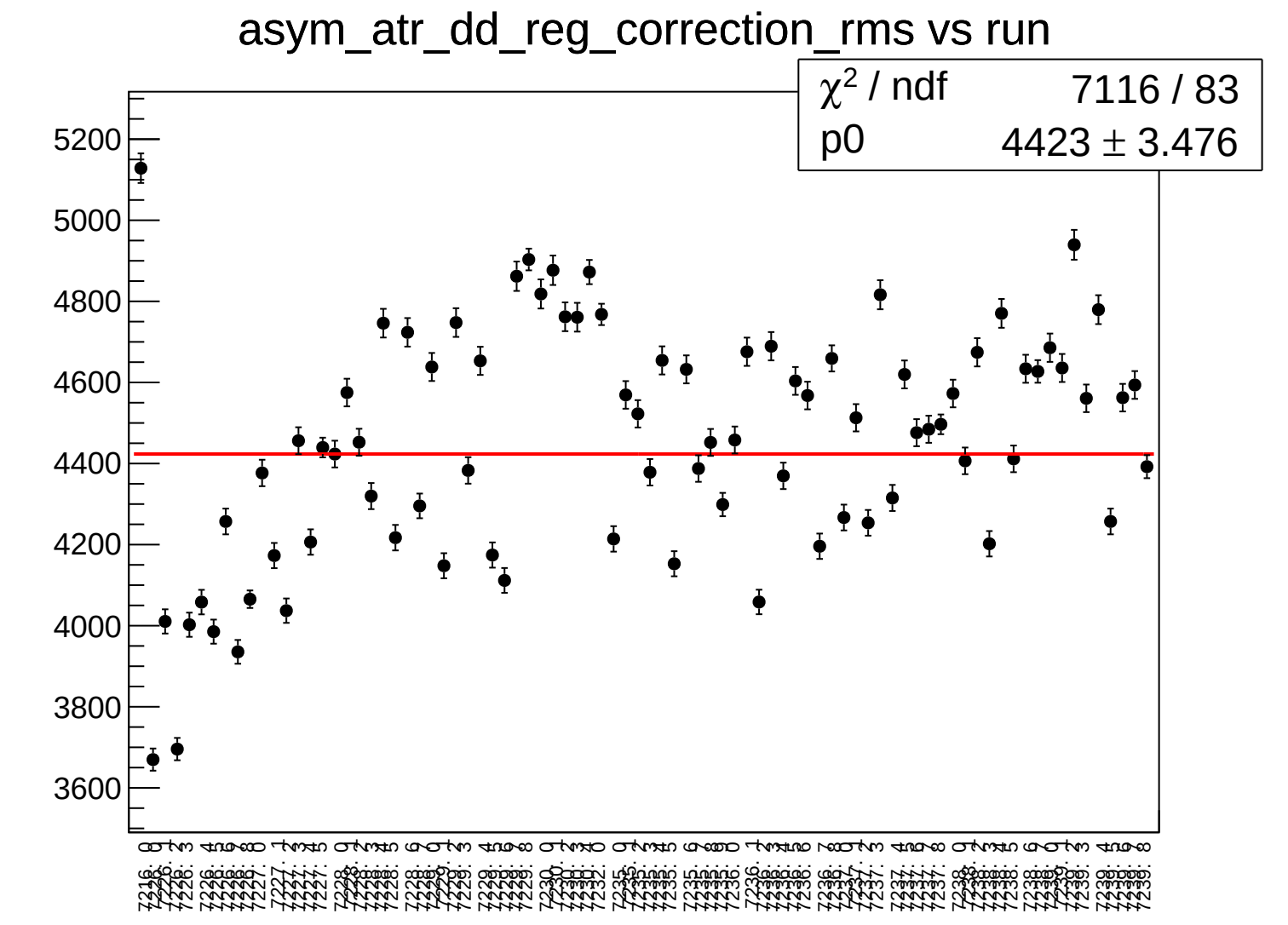

reg_asym_atr_dd_mean vs run
χ² / ndf 88.95 / 83
p0 −245.1± 2014
pull
Entries 84
Mean −1278
Std Dev 0

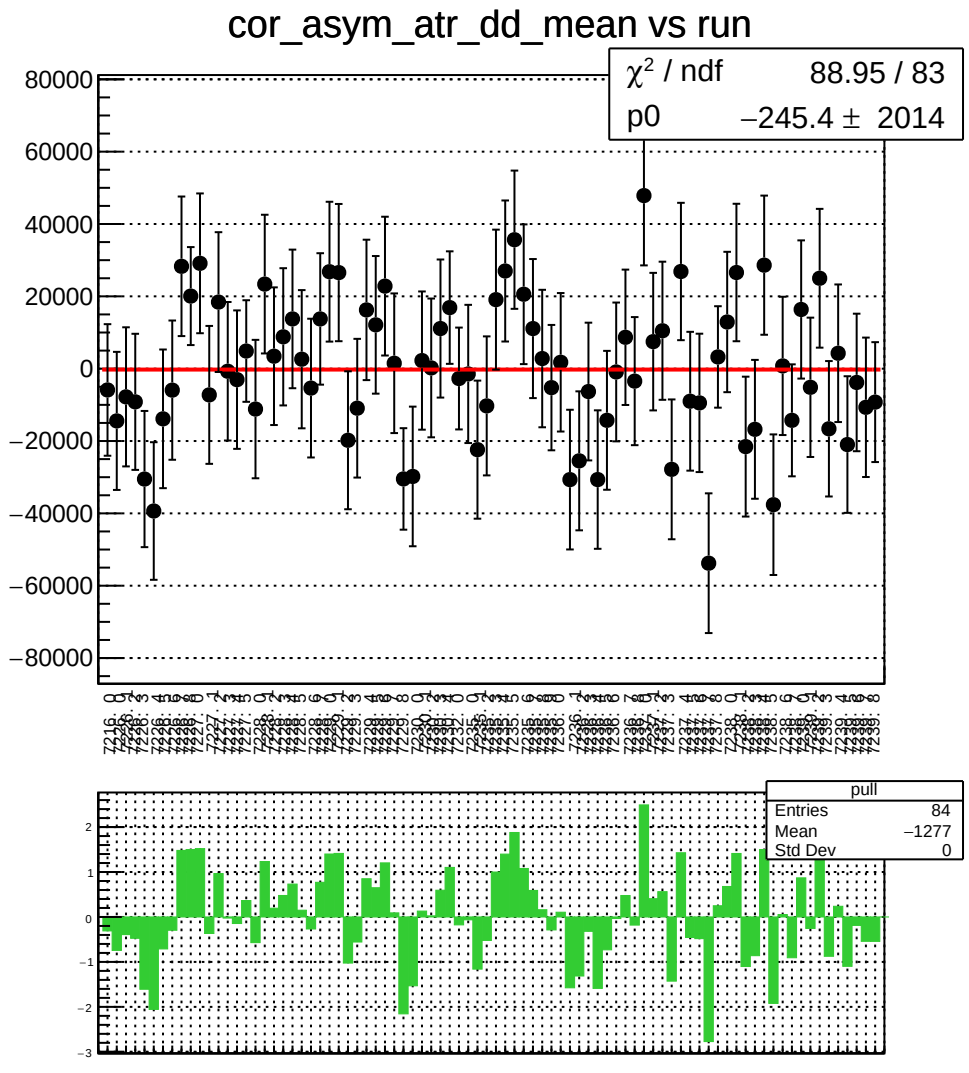

pull1D
Entries 84
Mean 0.001465
Std Dev 1.029

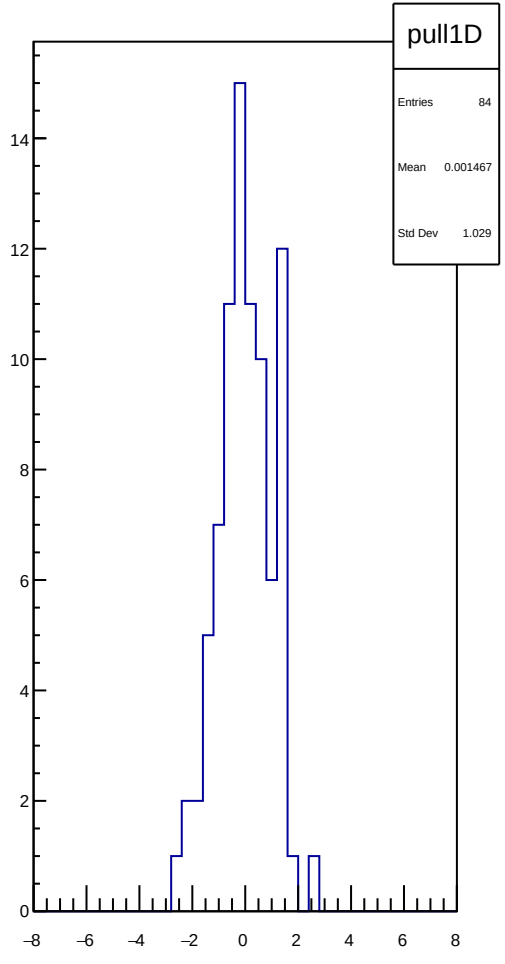

reg_asym_atr_dd_rms vs run
χ^2 / ndf 98.17 / 83
p0 1816 ± 1.424
1860
1840
1820
1800
1780
1760

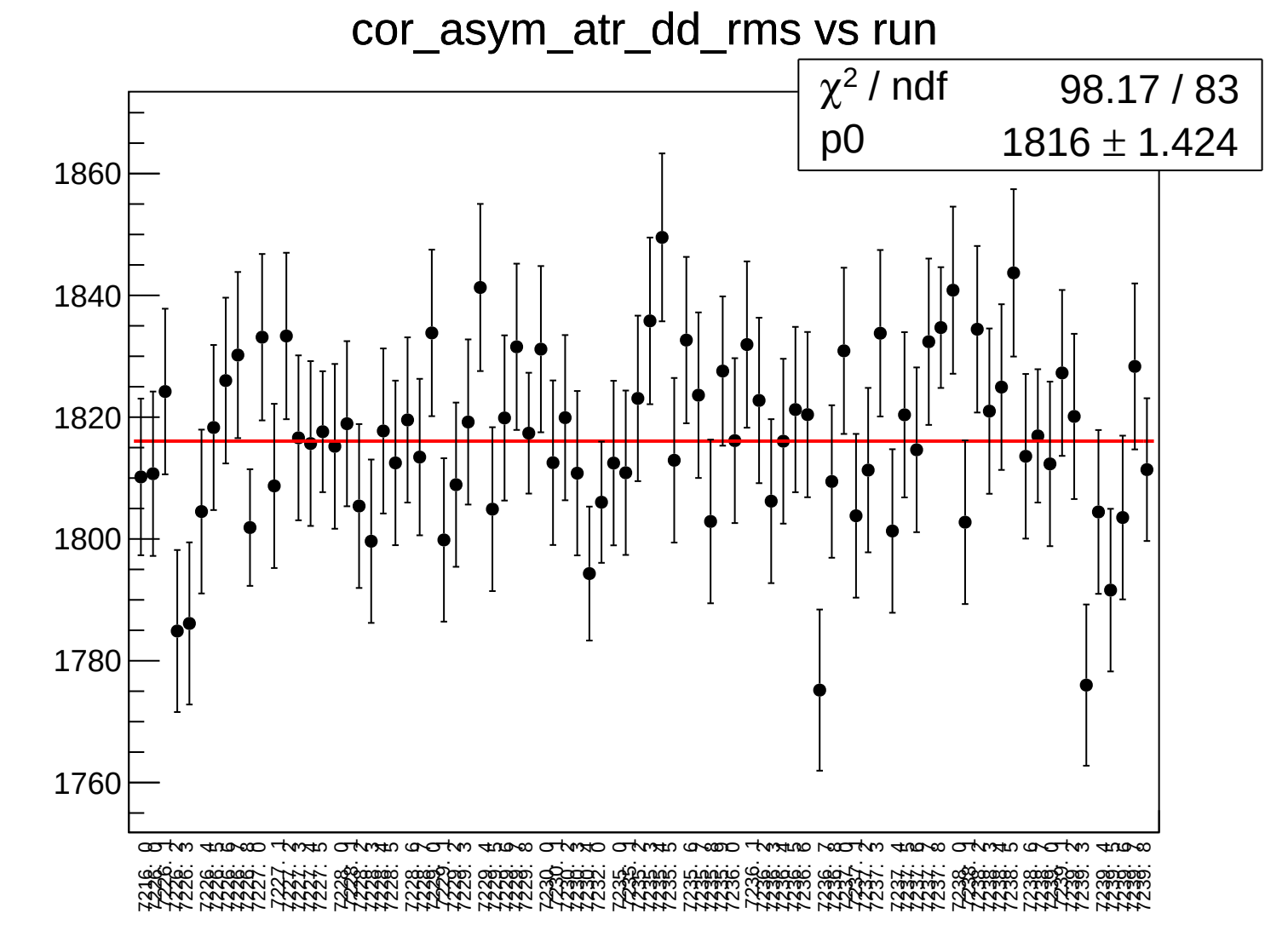

asym_atr_dd_reg_correction_mean vs run
×10^3
χ² / ndf 98.48 / 83
p0 −5342 ± 4916
200
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −182.3
Std Dev 0
3
2
1
0
−1
−2

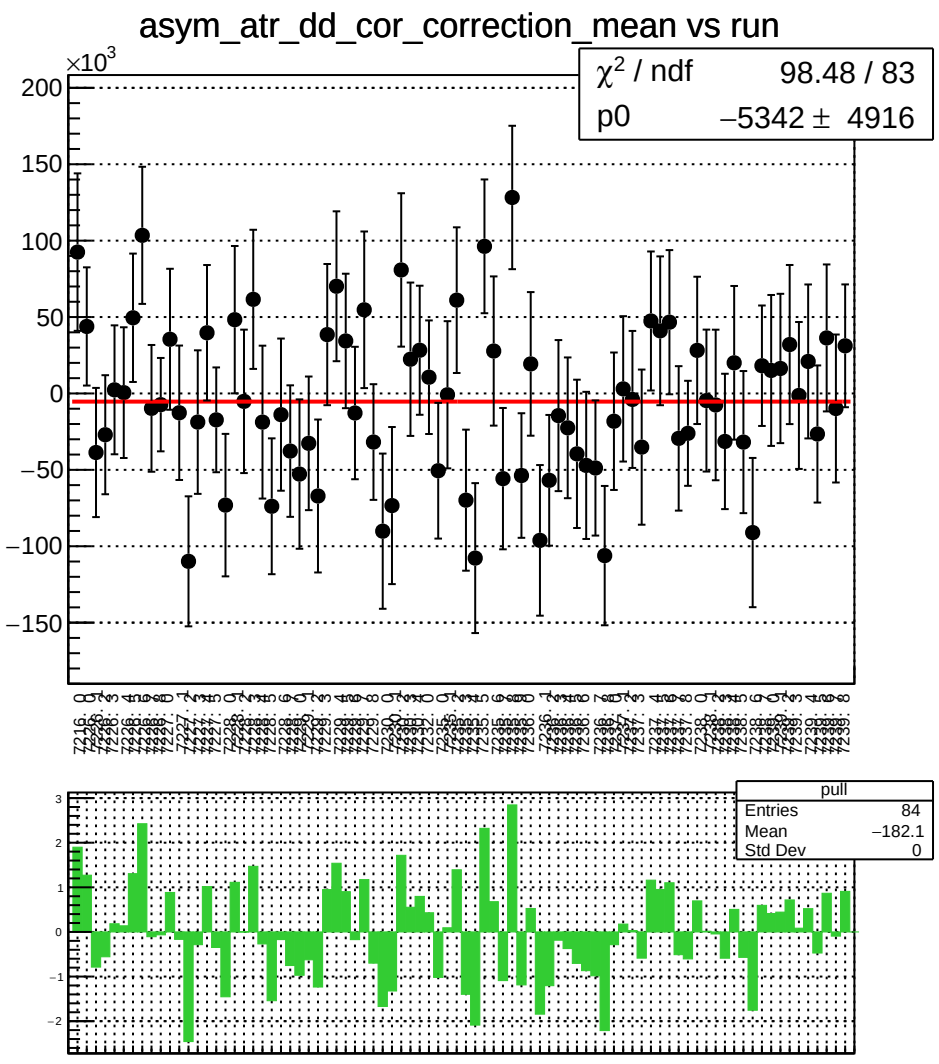

pull1D
Entries 84
Mean 0.00597
Std Dev 1.083
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

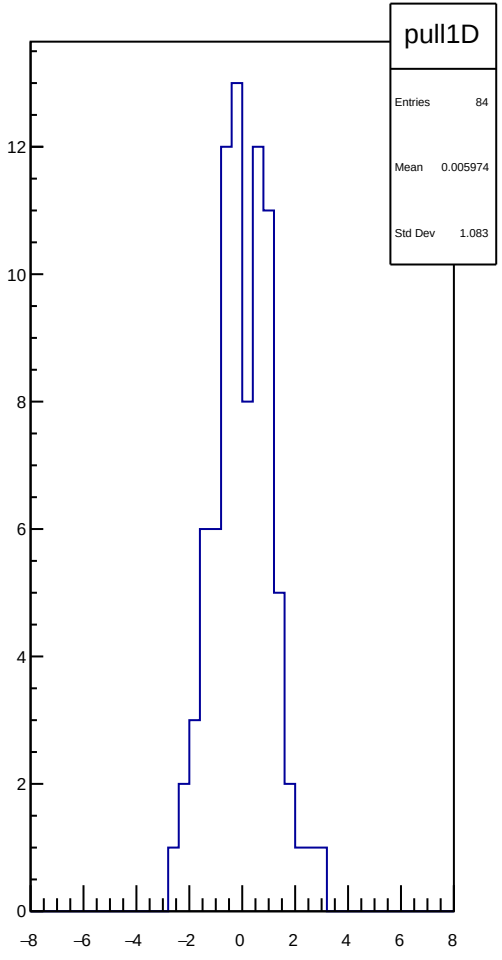

asym_atr_dd_reg_correction_rms vs run
χ^2 / ndf 7116 / 83
p0 4423 ± 3.476
5200
5000
4800
4600
4400
4200
4000
3800
3600

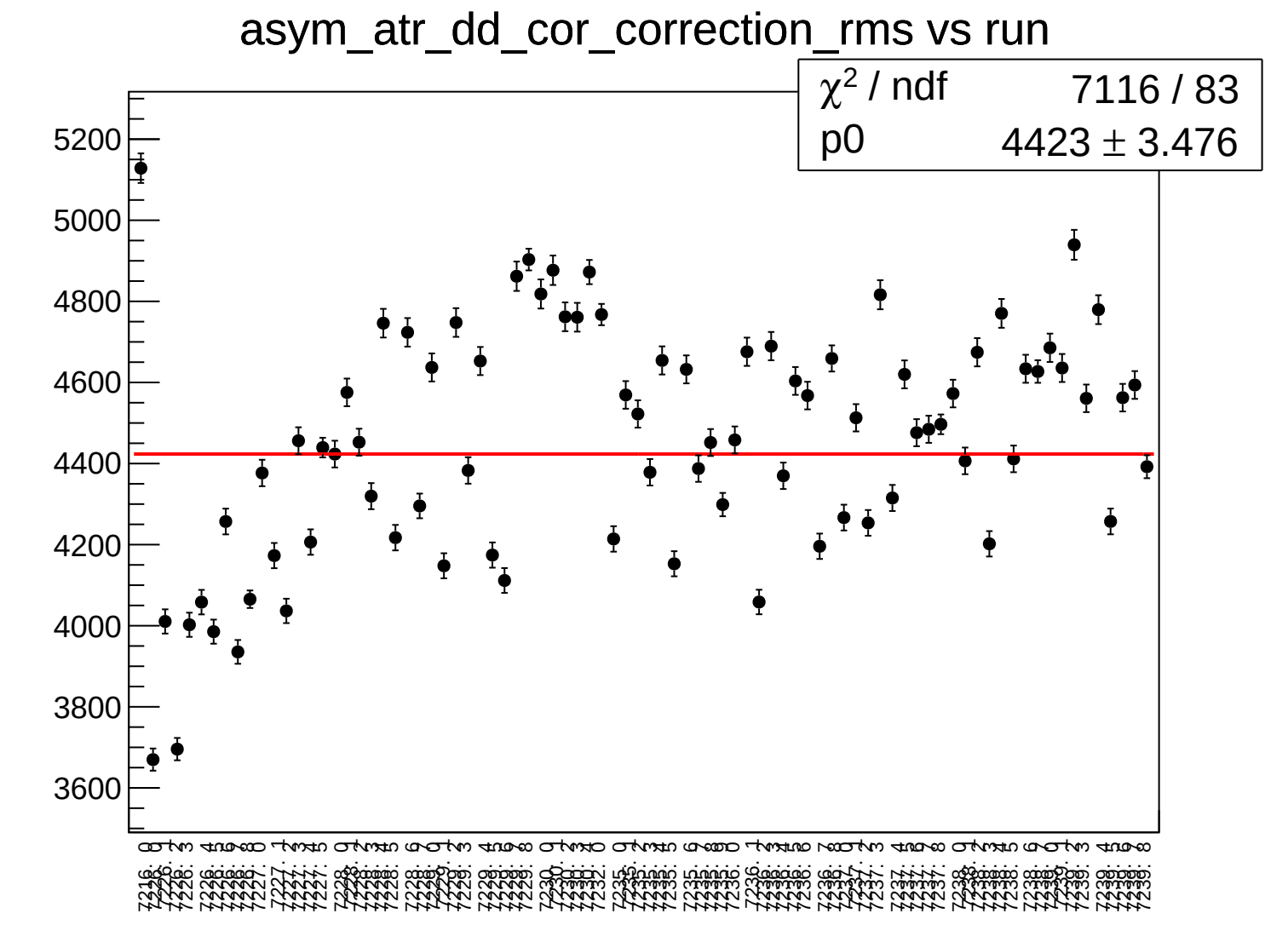

cor_asym_atr_dd_mean vs run
χ² / ndf 88.95 / 83
p0 −245.4 ± 2014
pull
Entries 84
Mean −1277
Std Dev 0

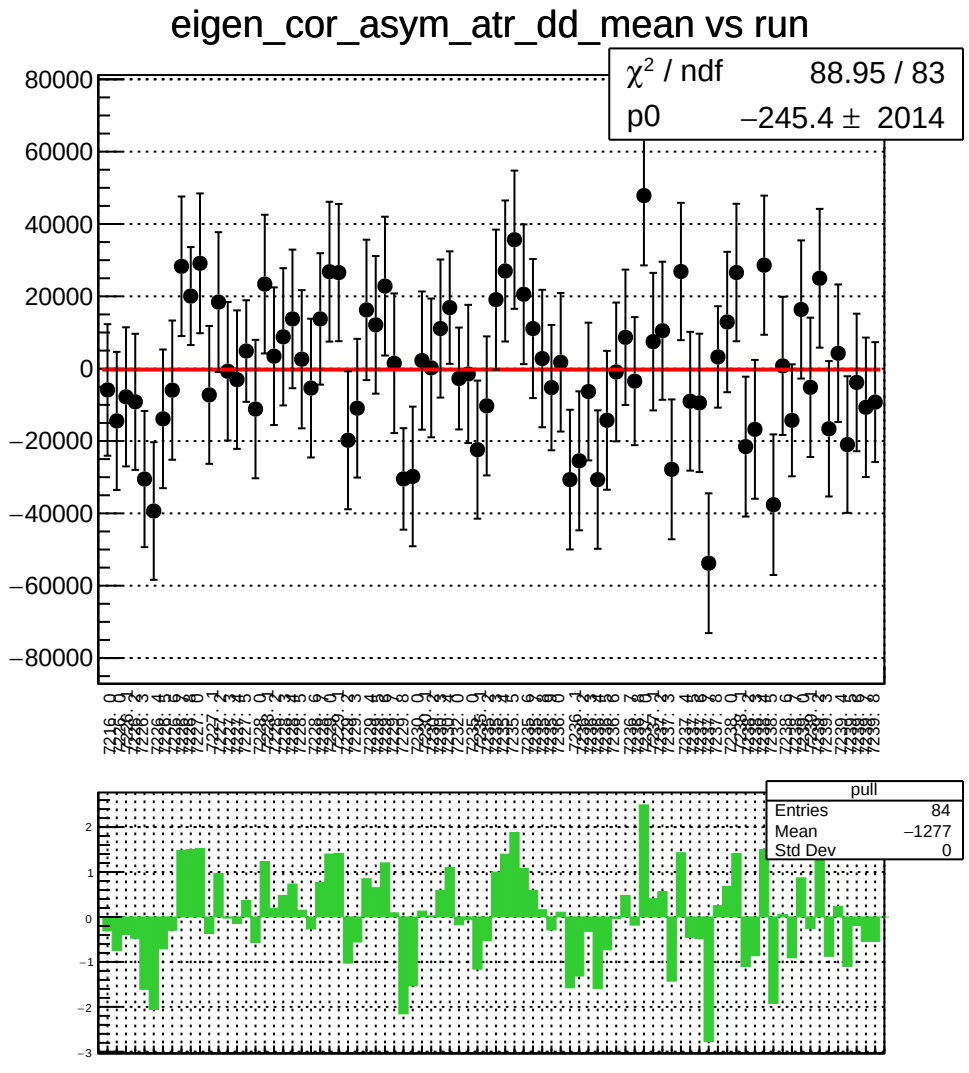

pull1D
Entries 84
Mean 0.001467
Std Dev 1.029

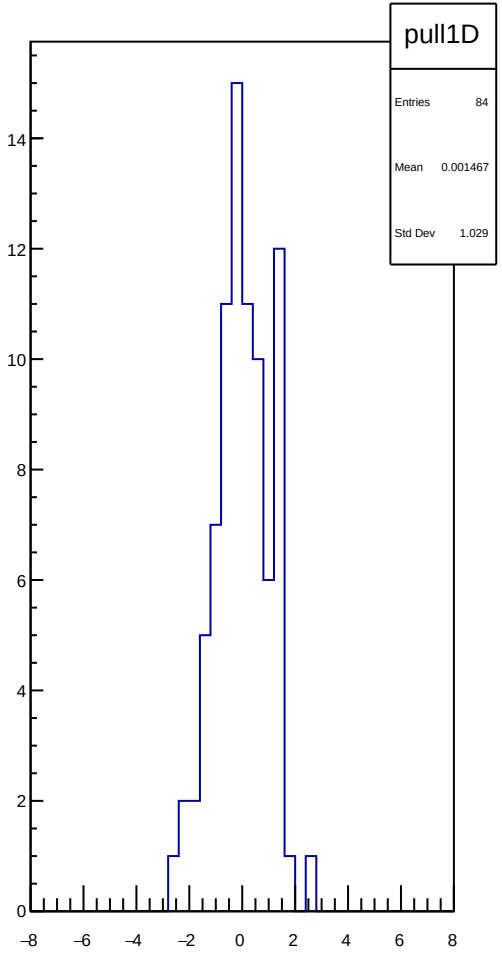

cor_asym_atr_dd_rms vs run
χ^2 / ndf 98.17 / 83
p0 1816 ± 1.424
1860
1840
1820
1800
1780
1760

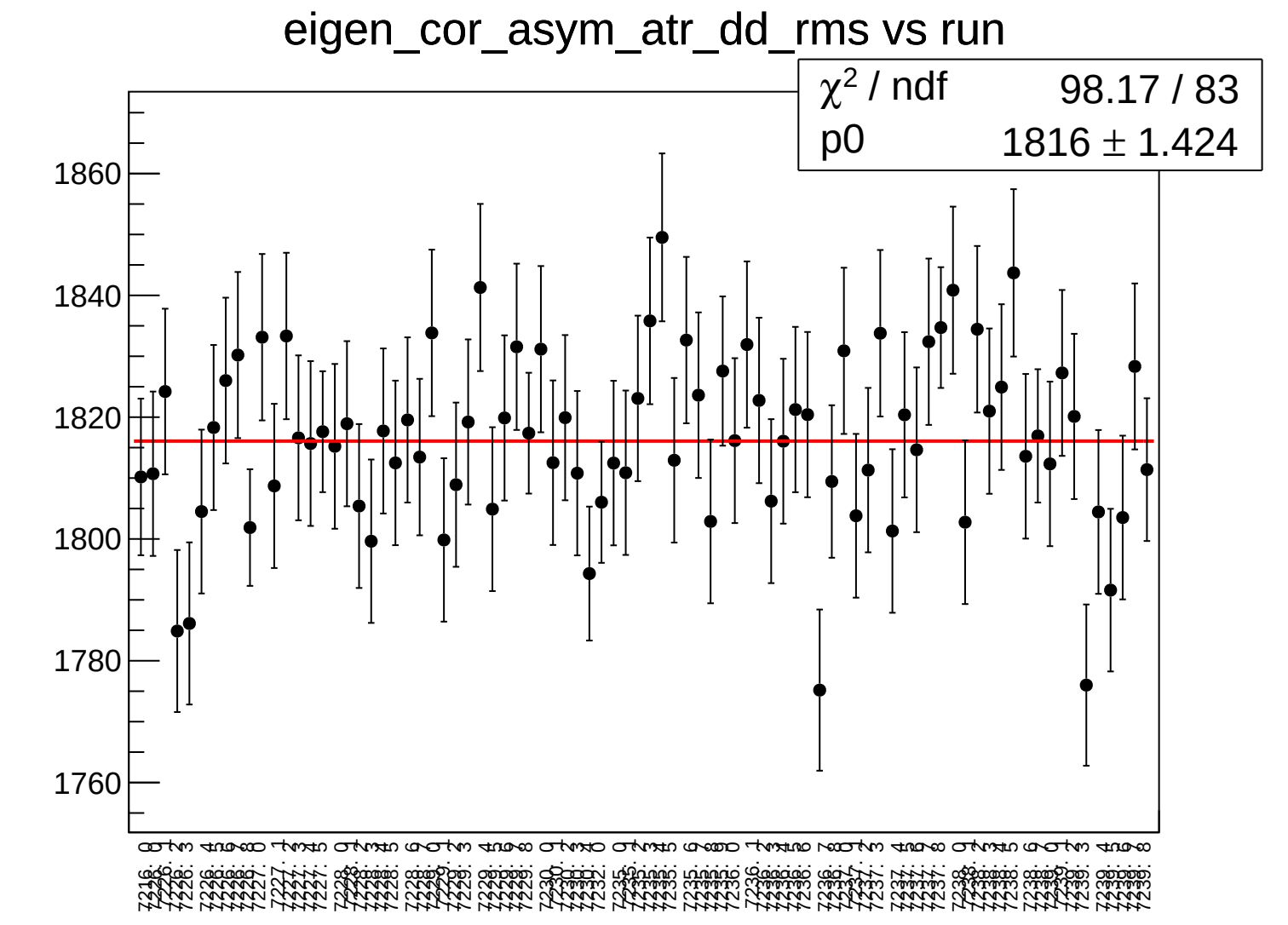

asym_atr_dd_cor_correction_mean vs run
×10^3
χ² / ndf 98.48 / 83
p0 −5342 ± 4916
200
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −182.1
Std Dev 0
3
2
1
0
−1
−2

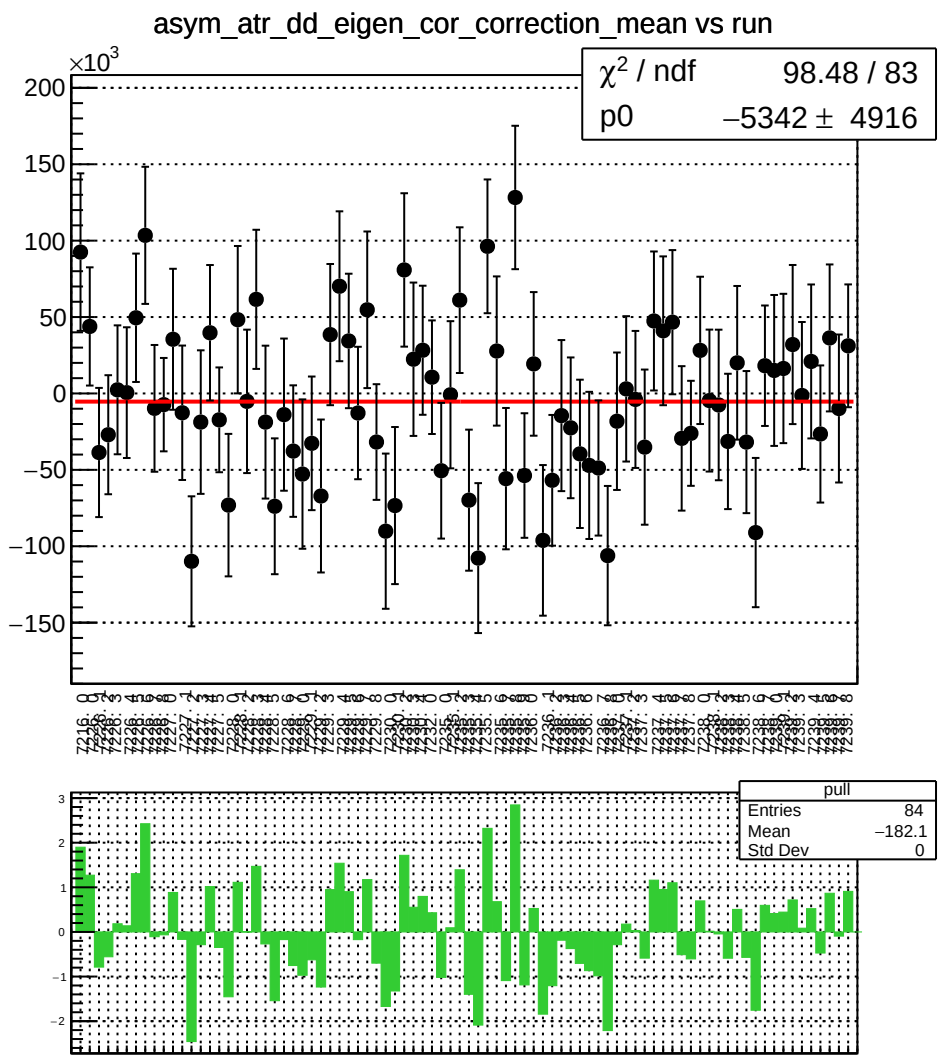

pull1D
Entries 84
Mean 0.005974
Std Dev 1.083
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

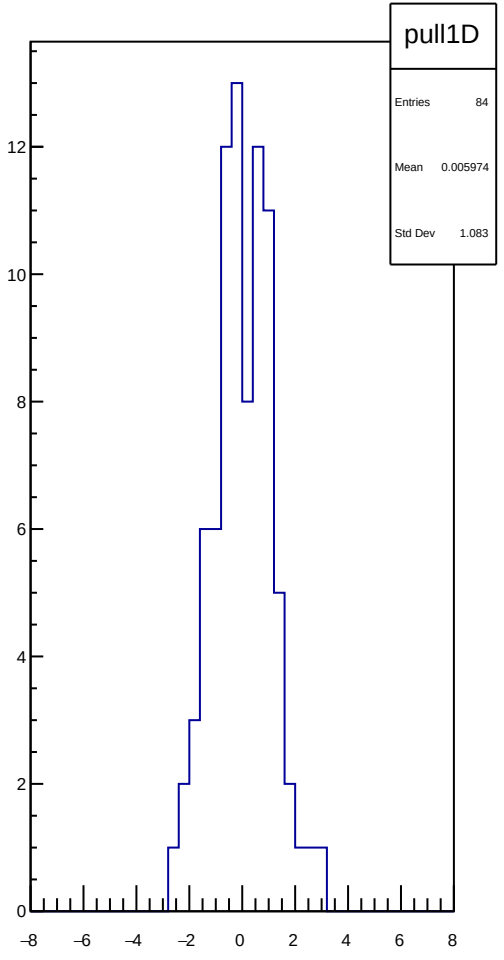

asym_atr_dd_cor_correction_rms vs run
χ^2 / ndf 7116 / 83
p0 4423 ± 3.476
5200
5000
4800
4600
4400
4200
4000
3800
3600

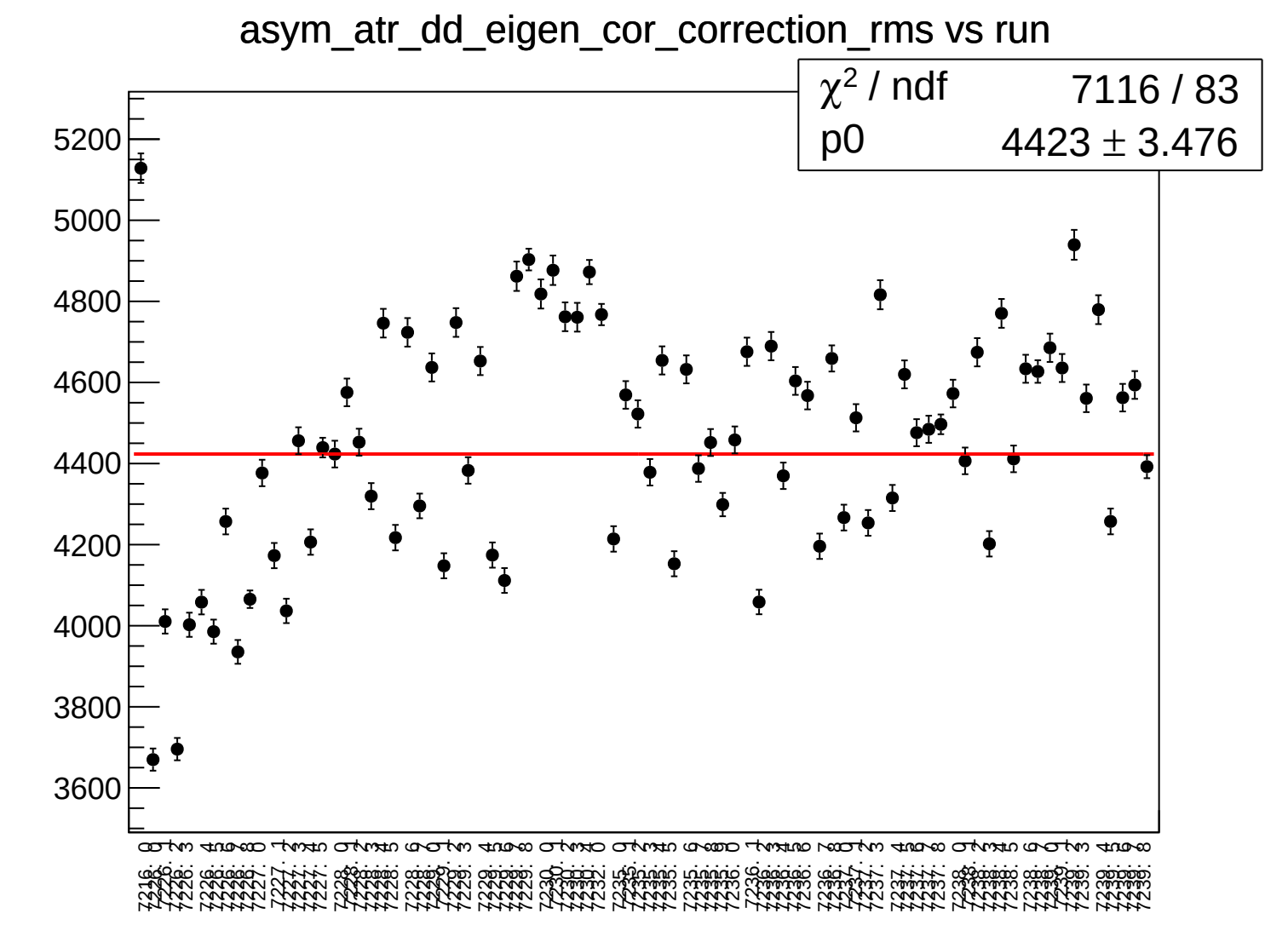

eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 88.95 / 83
p0 −245.4 ± 2014
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean −1277
Std Dev 0
2
1
0
−1
−2
−3

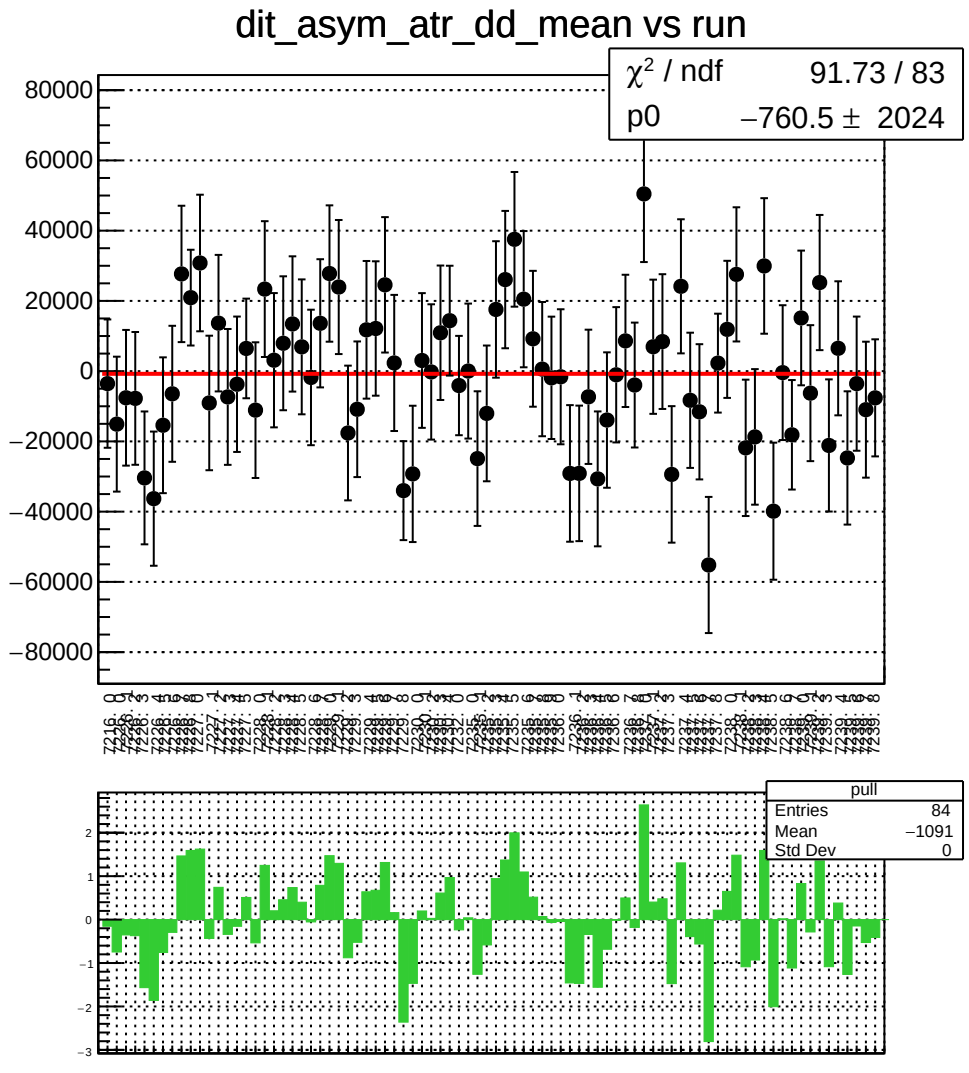

pull1D
Entries 84
Mean 0.001467
Std Dev 1.029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

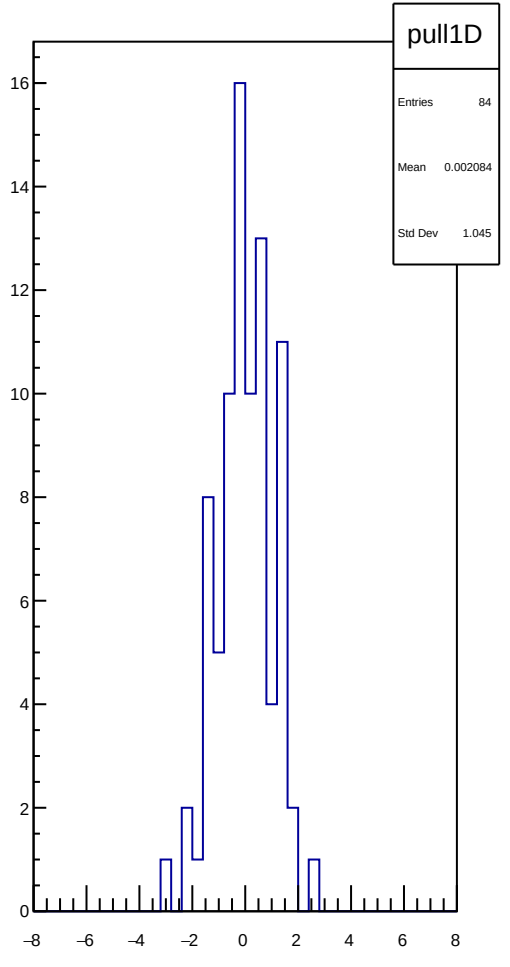

eigen_cor_asym_atr_dd_rms vs run
χ^2 / ndf 98.17 / 83
p0 1816 ± 1.424
1860
1840
1820
1800
1780
1760

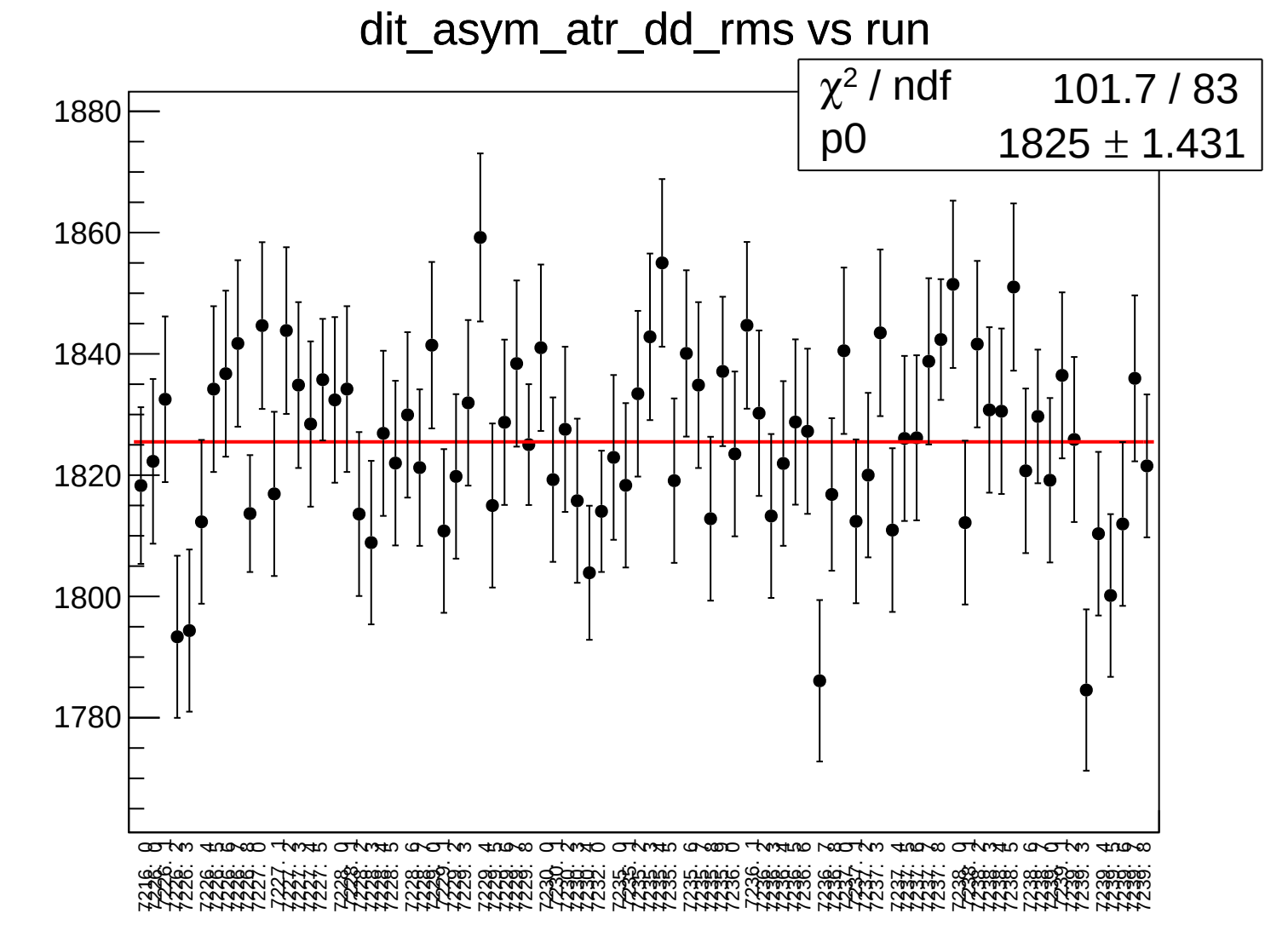

asym_atr_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 98.48 / 83
p0 −5342 ± 4916
pull
Entries 84
Mean −182.1
Std Dev 0

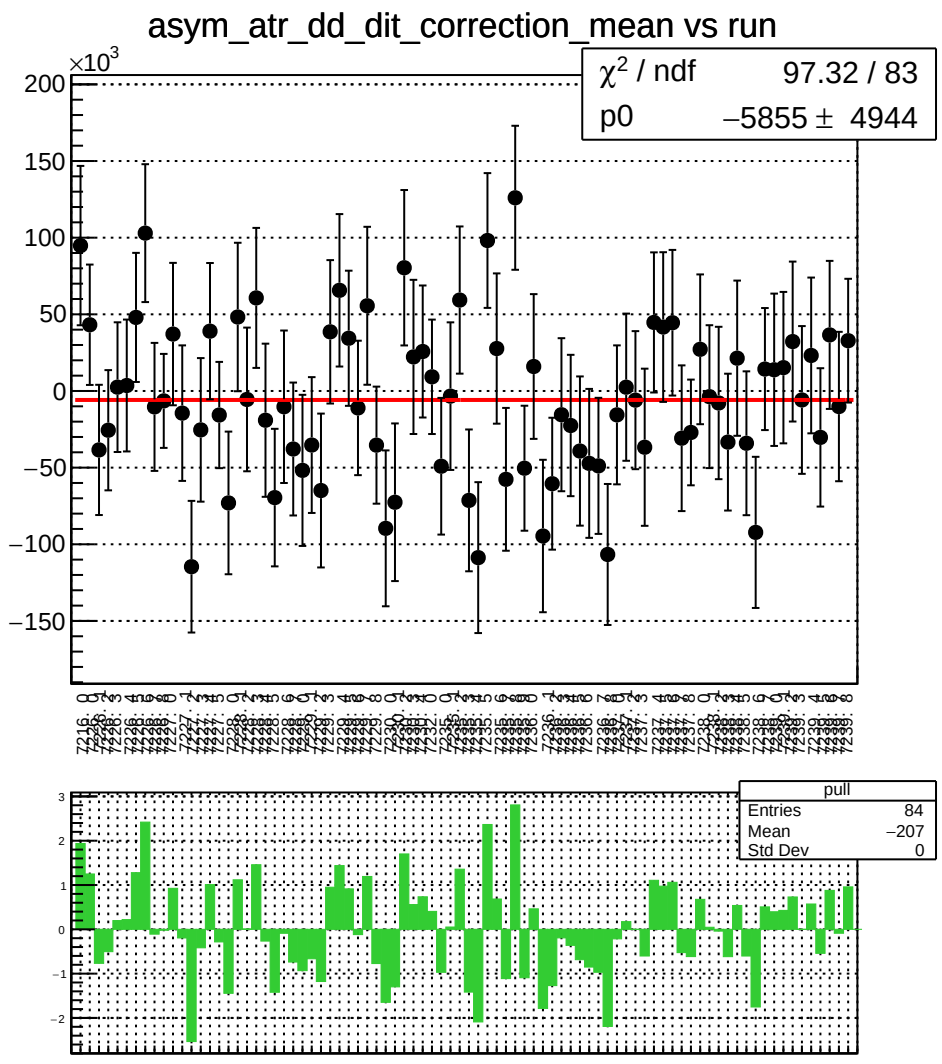

pull1D
Entries 84
Mean 0.005974
Std Dev 1.083

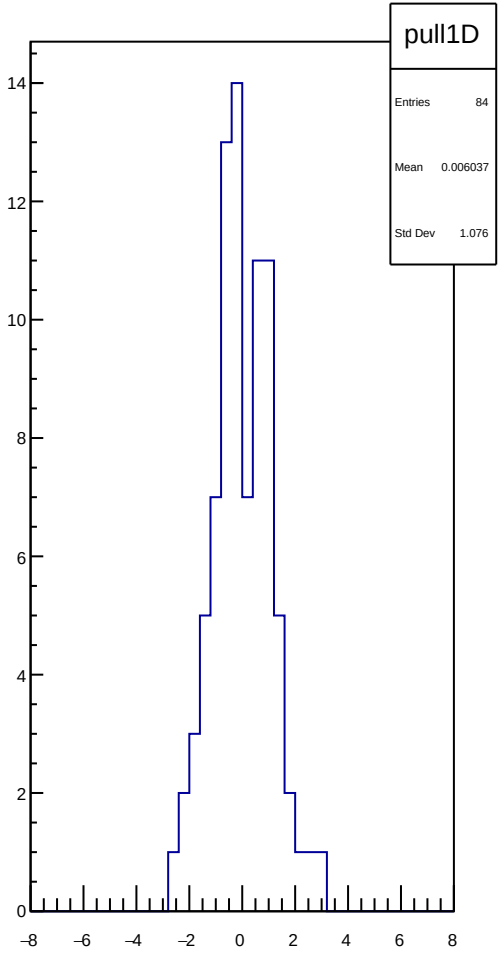

asym_atr_dd_eigen_cor_correction_rms vs run
χ² / ndf 7116 / 83
p0 4423 ± 3.476
5200
5000
4800
4600
4400
4200
4000
3800
3600

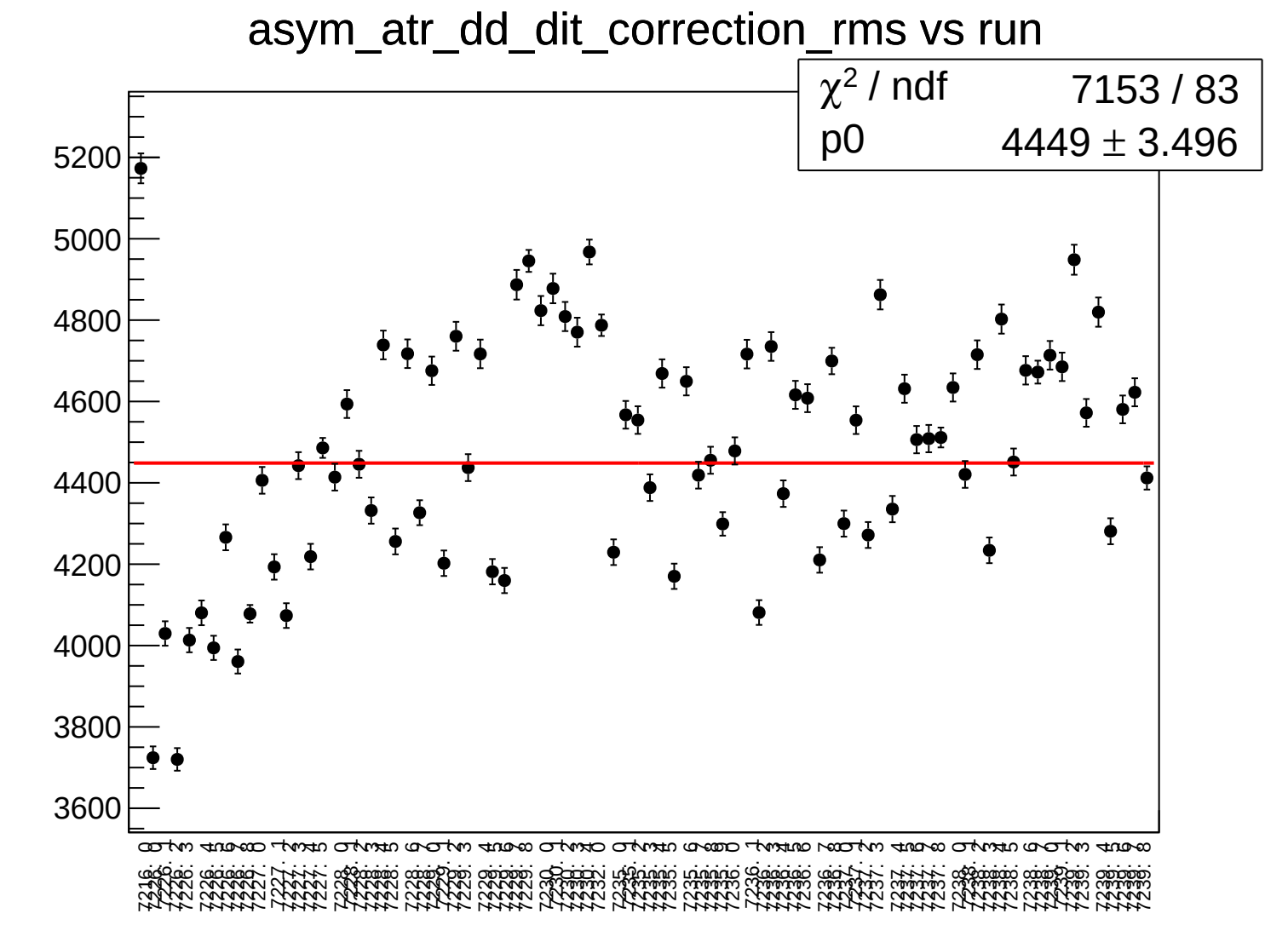

dit_asym_atr_dd_mean vs run
χ² / ndf 91.73 / 83
p0 −760.5 ± 2024
pull
Entries 84
Mean −1091
Std Dev 0

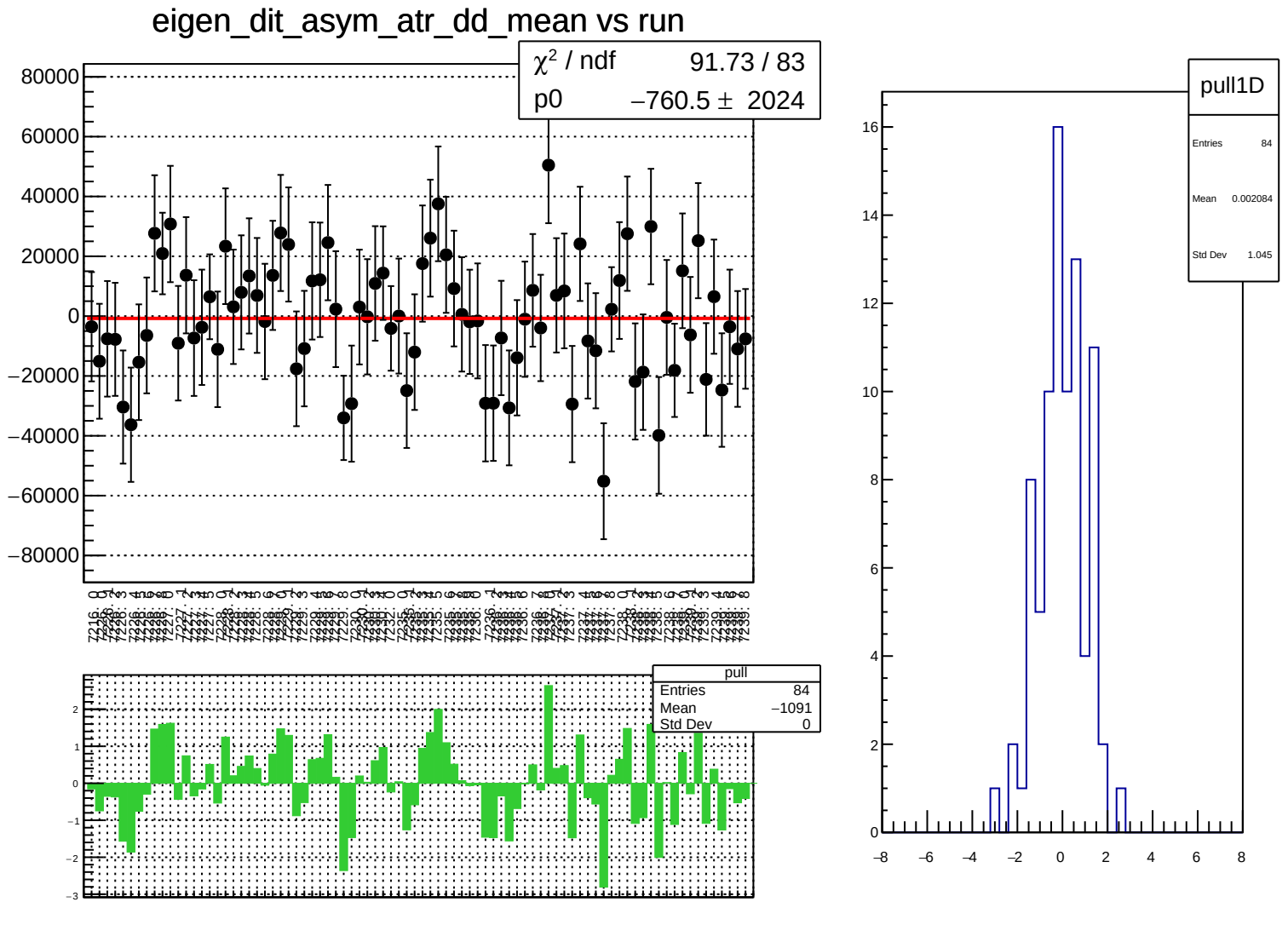

pull1D
Entries 84
Mean 0.002084
Std Dev 1.045

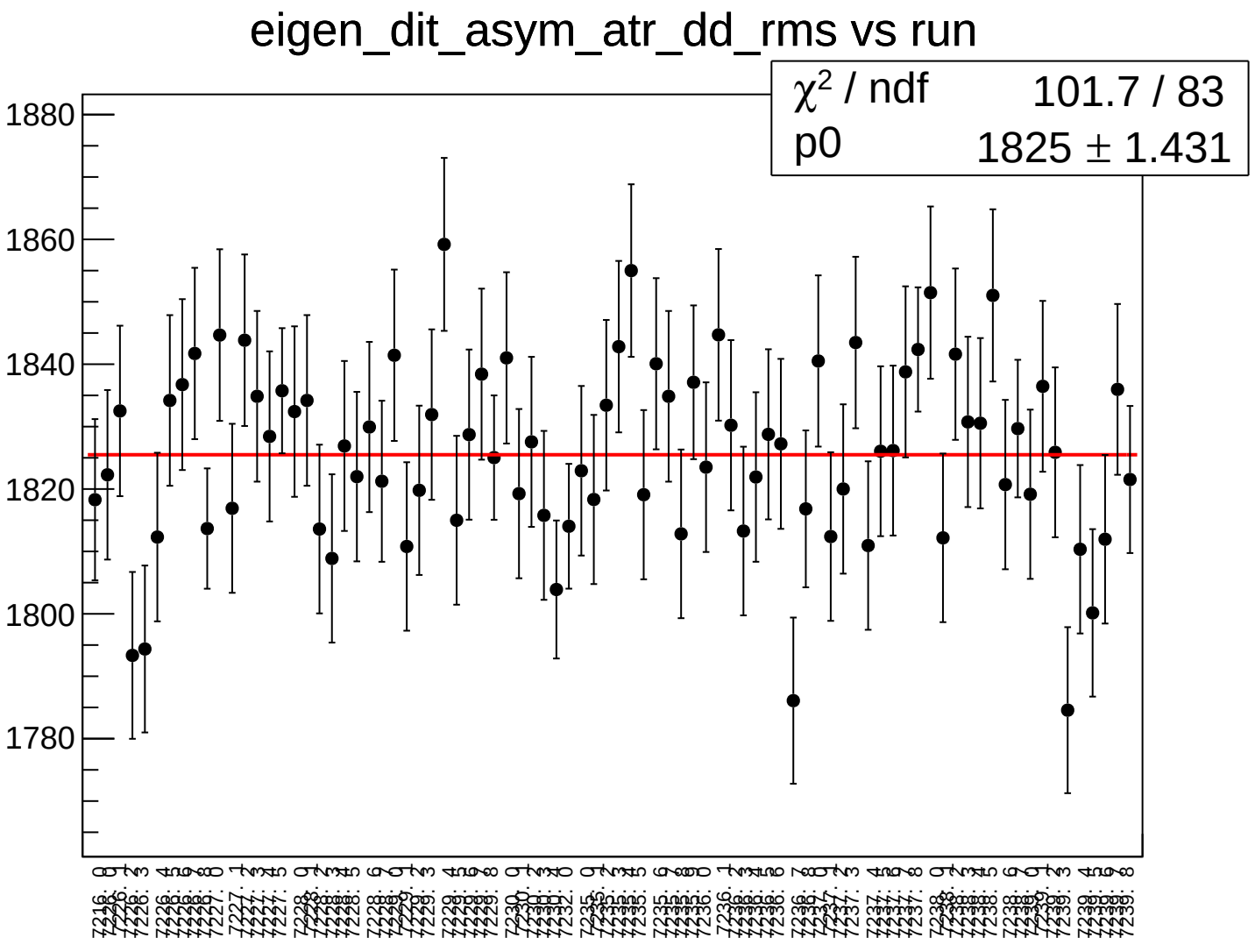

dit_asym_atr_dd_rms vs run
χ² / ndf 101.7 / 83
p0 1825 ± 1.431
1880
1860
1840
1820
1800
1780

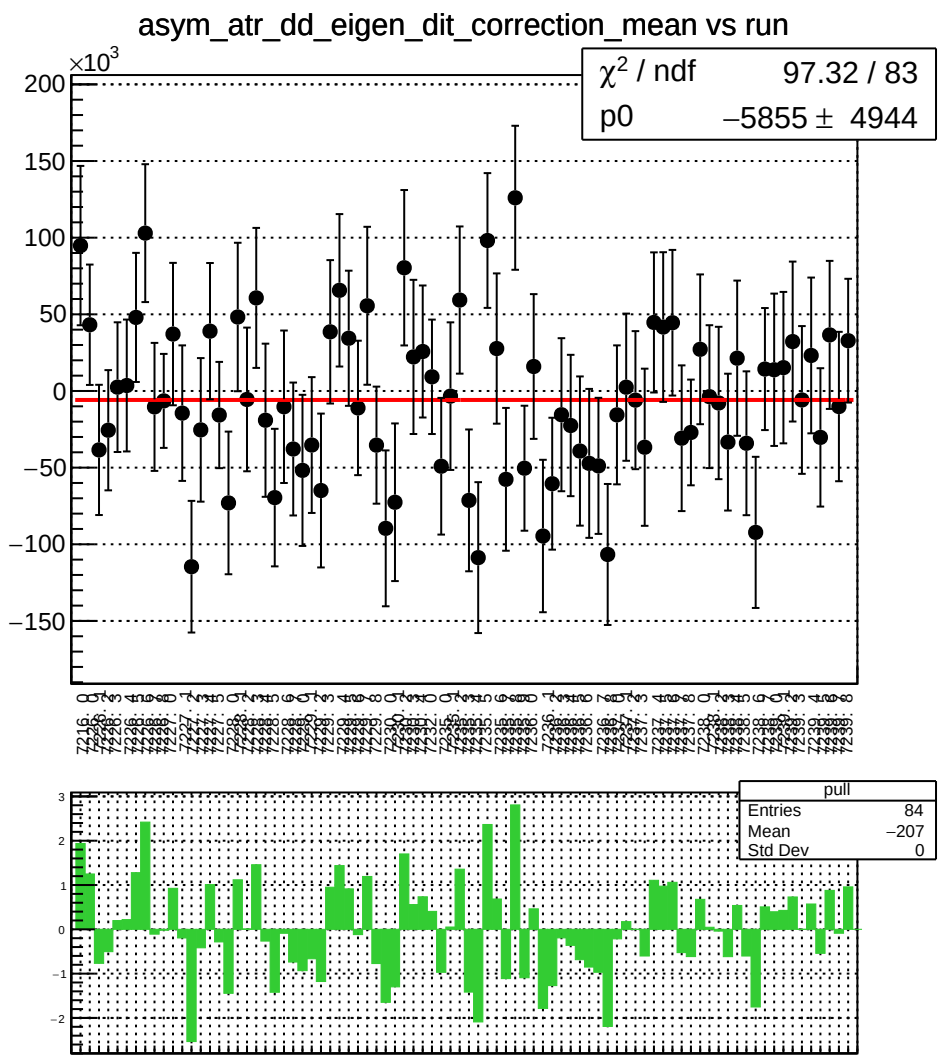

asym_atr_dd_dit_correction_mean vs run
×10^3
χ² / ndf 97.32 / 83
p0 −5855 ± 4944
pull
Entries 84
Mean −207
Std Dev 0

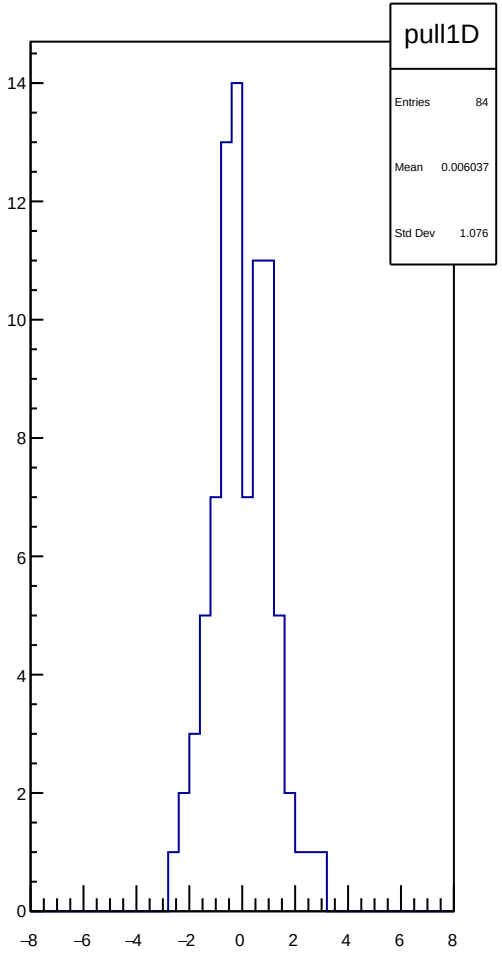

pull1D
Entries 84
Mean 0.006037
Std Dev 1.076

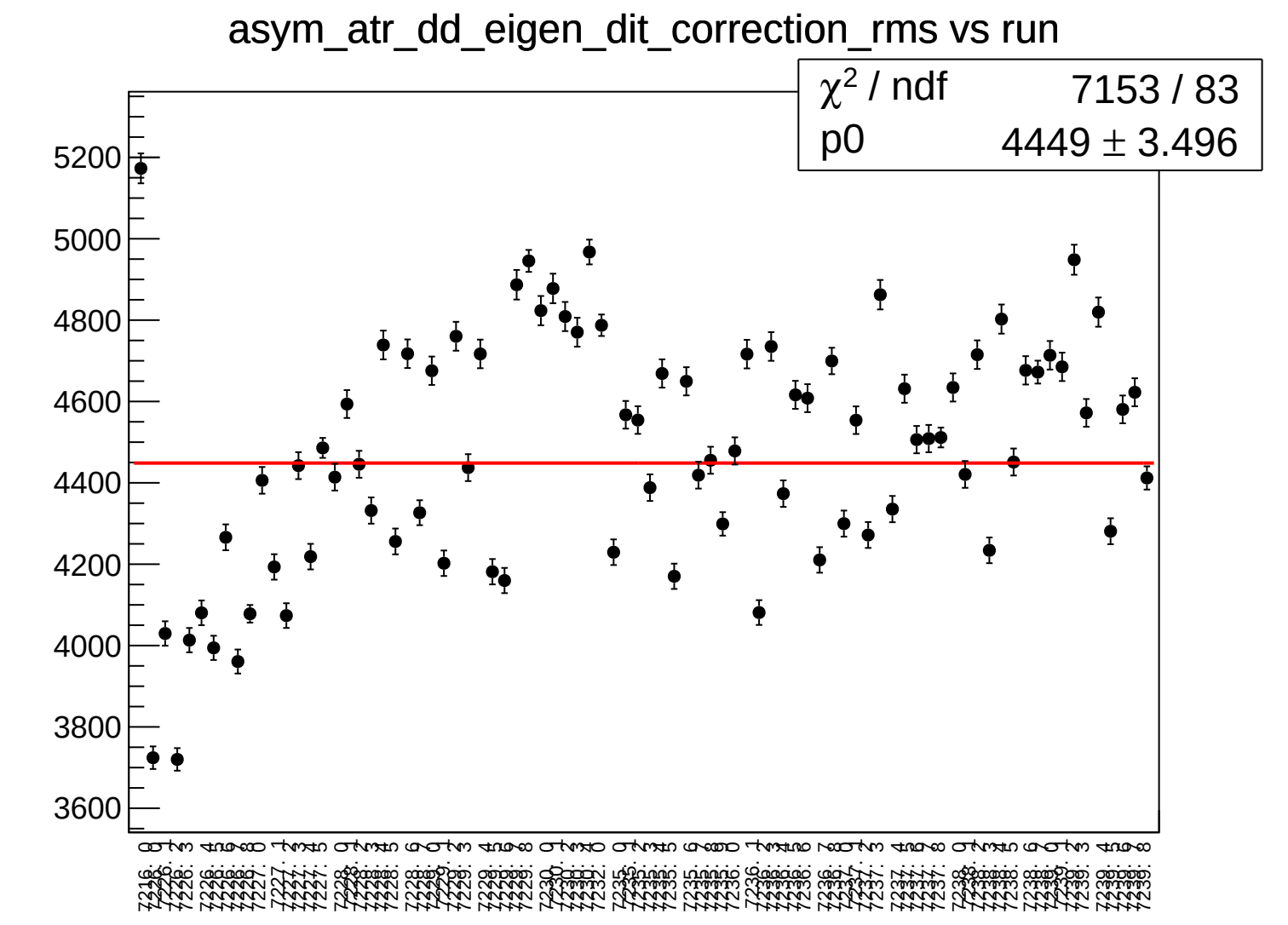

asym_atr_dd_dit_correction_rms vs run
χ^2 / ndf 7153 / 83
p0 4449 ± 3.496
5200
5000
4800
4600
4400
4200
4000
3800
3600

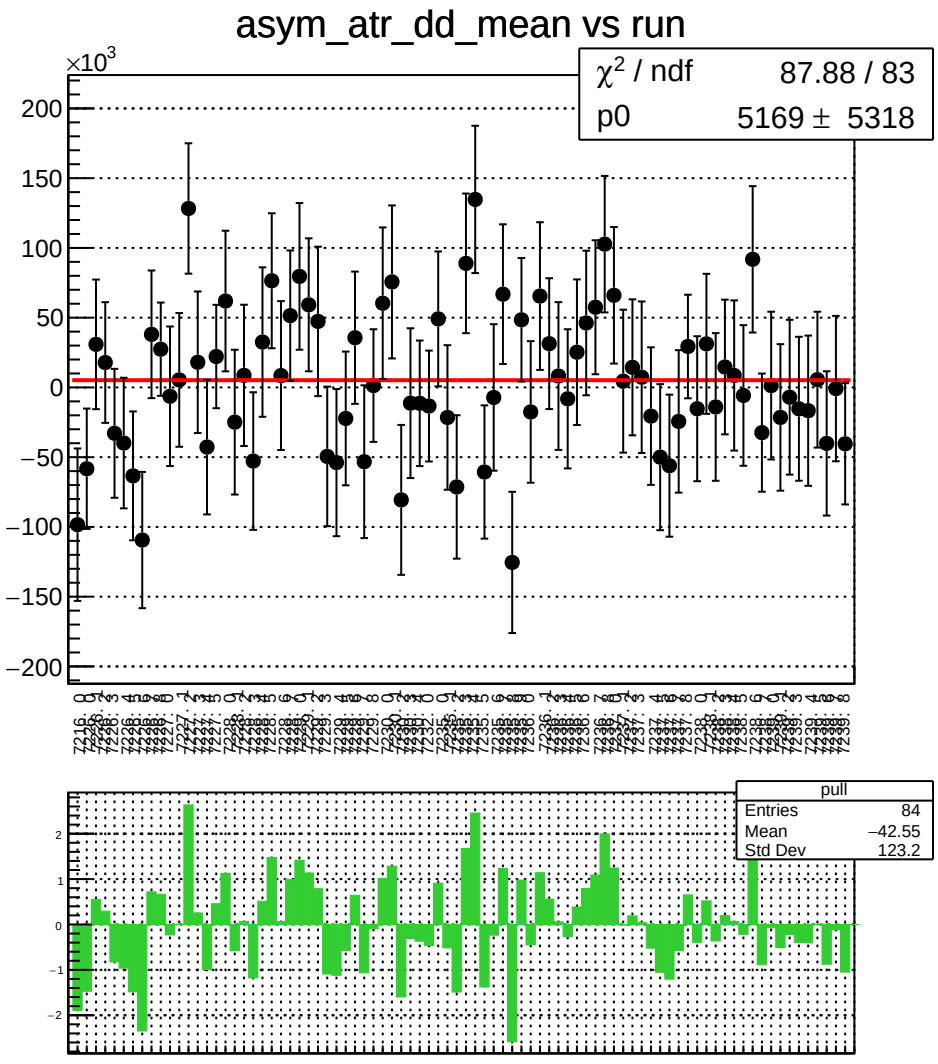

eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 91.73 / 83
p0 −760.5 ± 2024
pull
Entries 84
Mean −1091
Std Dev 0
pull1D
Entries 84
Mean 0.002084
Std Dev 1.045

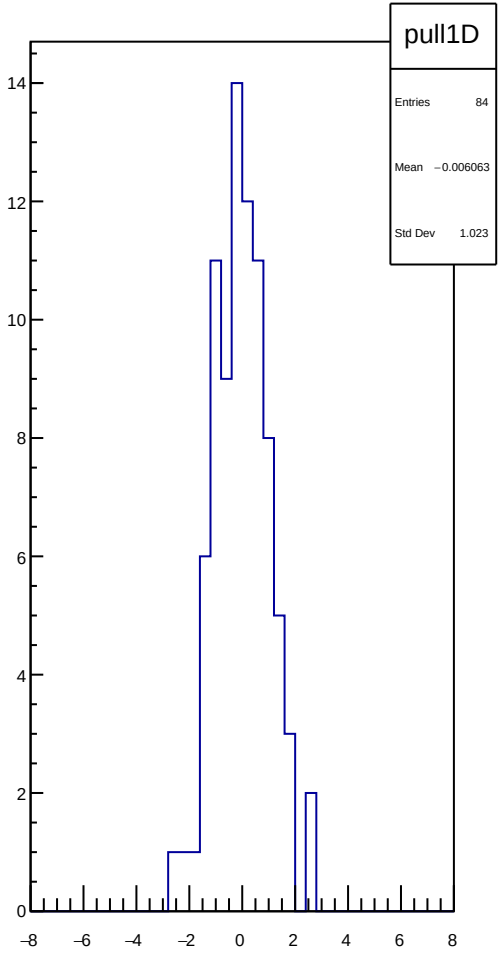

eigen_dit_asym_atr_dd_rms vs run
χ^2 / ndf 101.7 / 83
p0 1825 ± 1.431
1880
1860
1840
1820
1800
1780

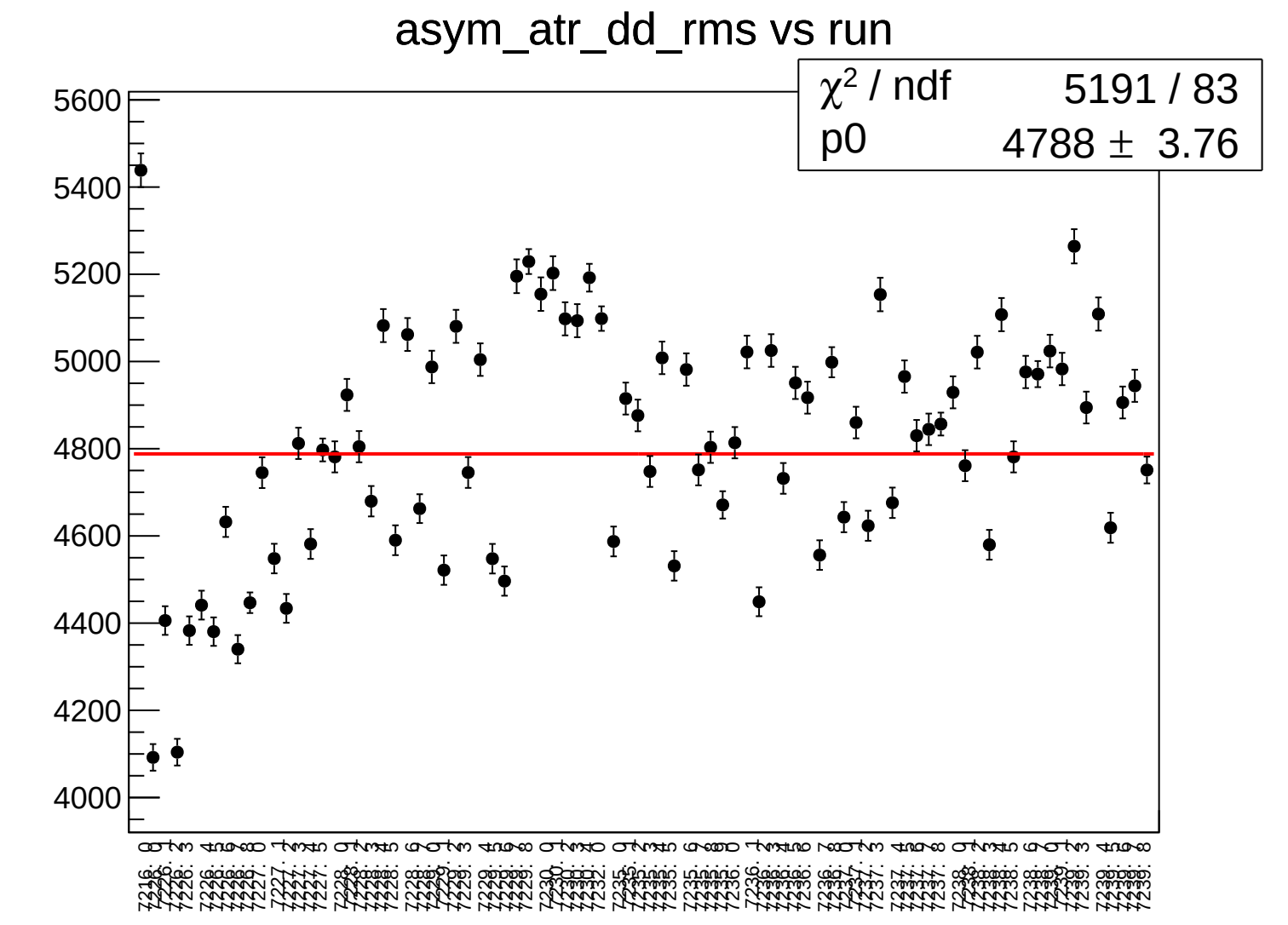

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 97.32 / 83
p0 −5855 ± 4944
200
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −207
Std Dev 0
3
2
1
0
−1
−2

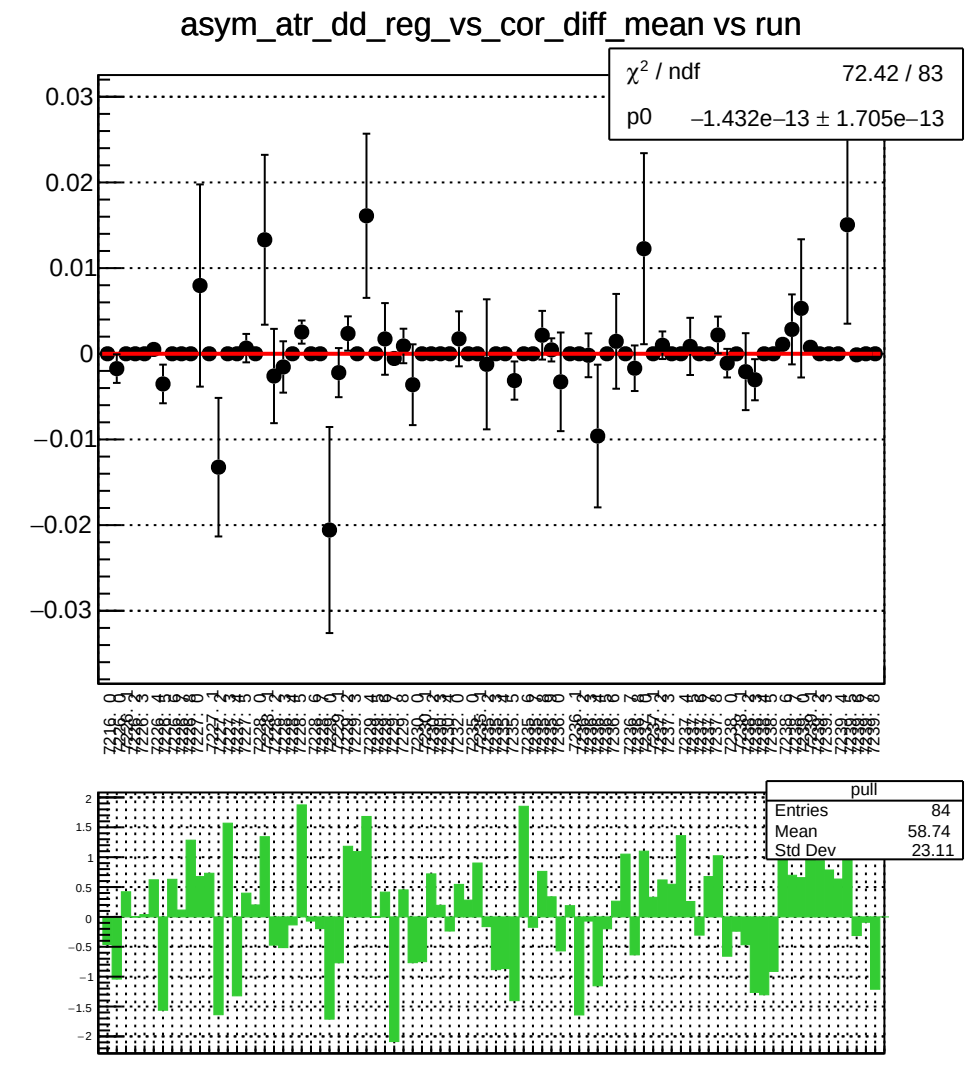

pull1D
Entries 84
Mean 0.006037
Std Dev 1.076
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

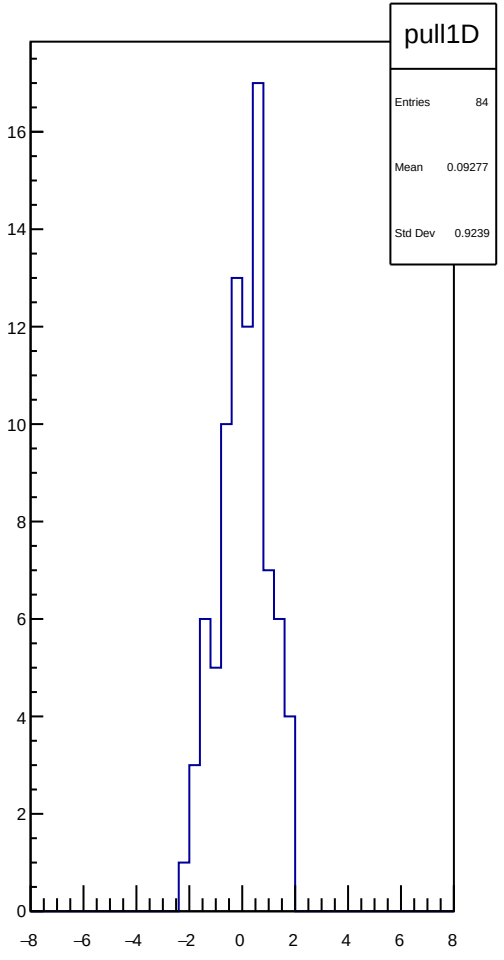

asym_atr_dd_eigen_dit_correction_rms vs run
χ² / ndf 7153 / 83
p0 4449 ± 3.496
5200
5000
4800
4600
4400
4200
4000
3800
3600

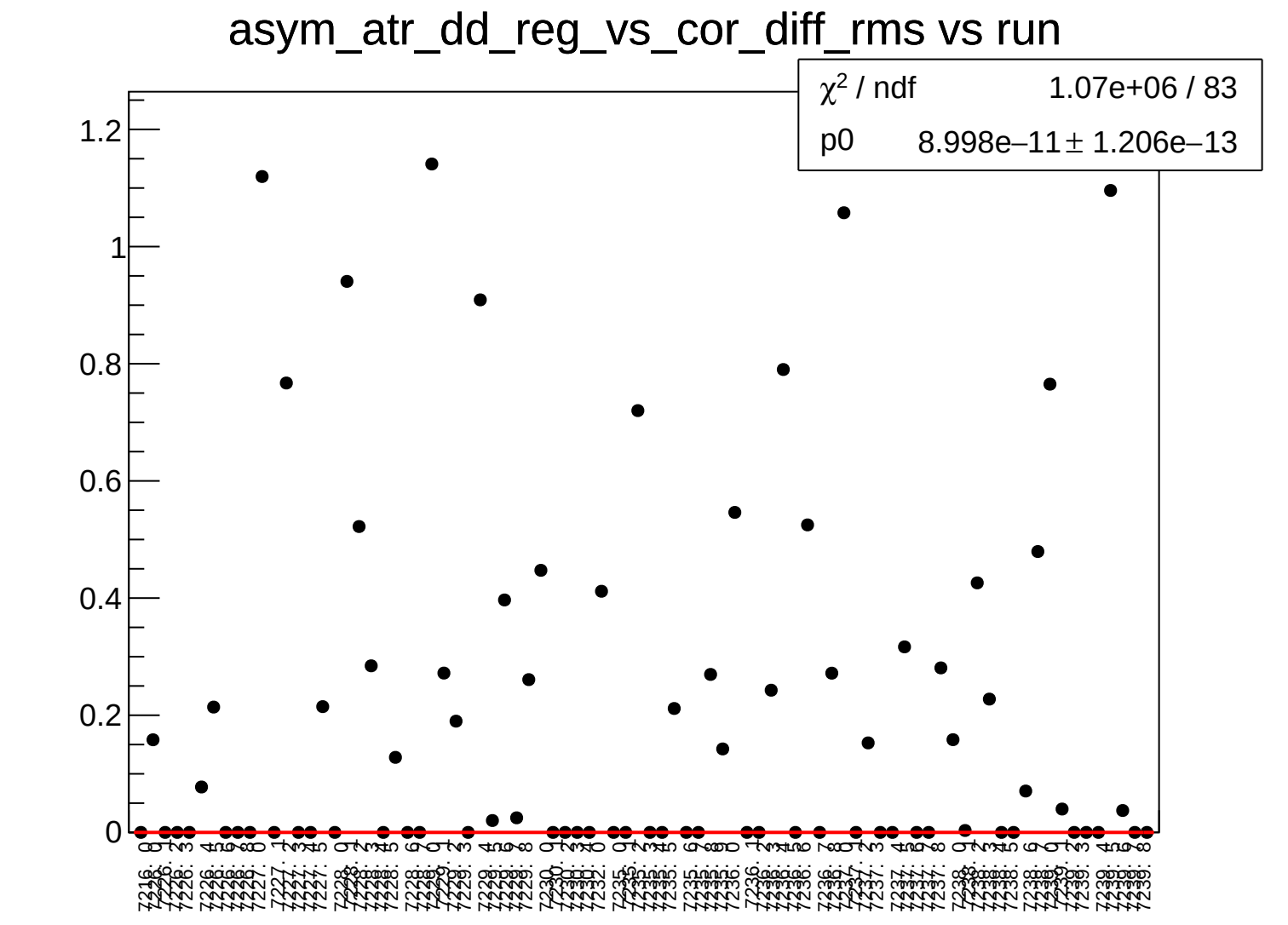

asym_atr_dd_mean vs run
×10^3
χ² / ndf 87.88 / 83
p0 5169 ± 5318
pull
Entries 84
Mean −42.55
Std Dev 123.2

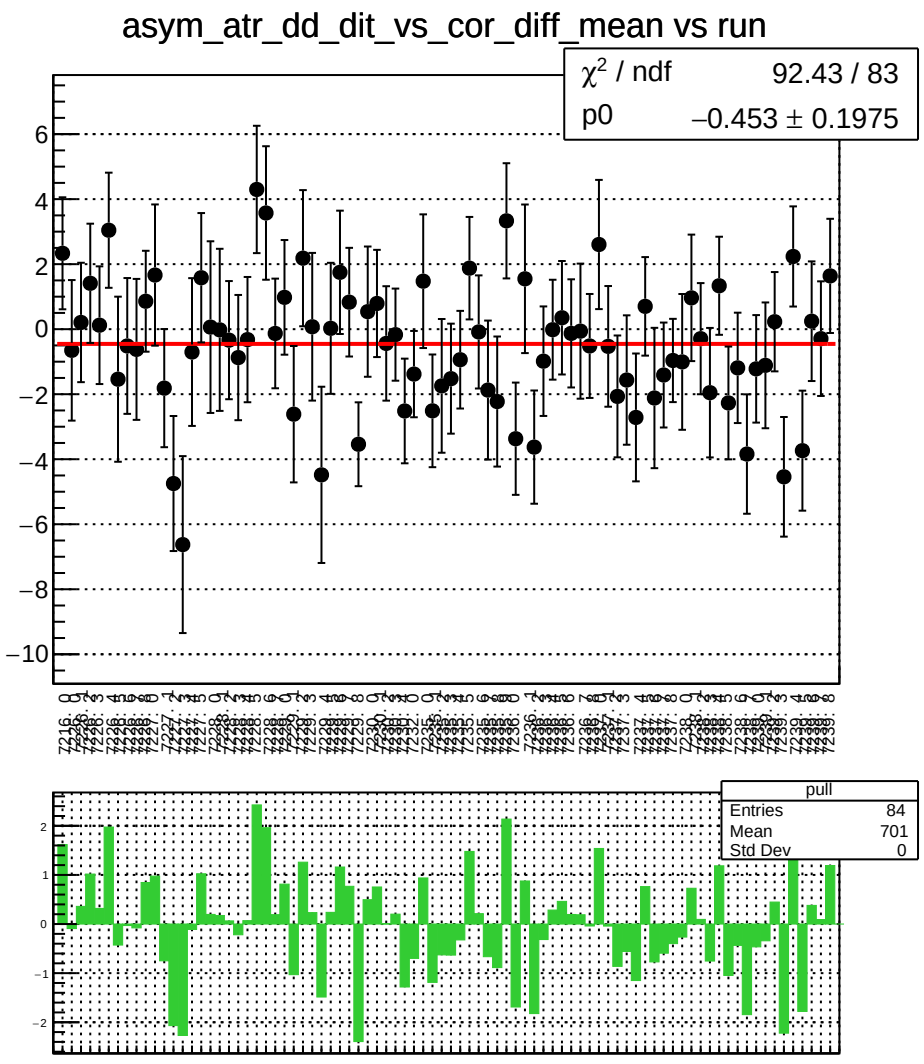

pull1D
Entries 84
Mean −0.006063
Std Dev 1.023

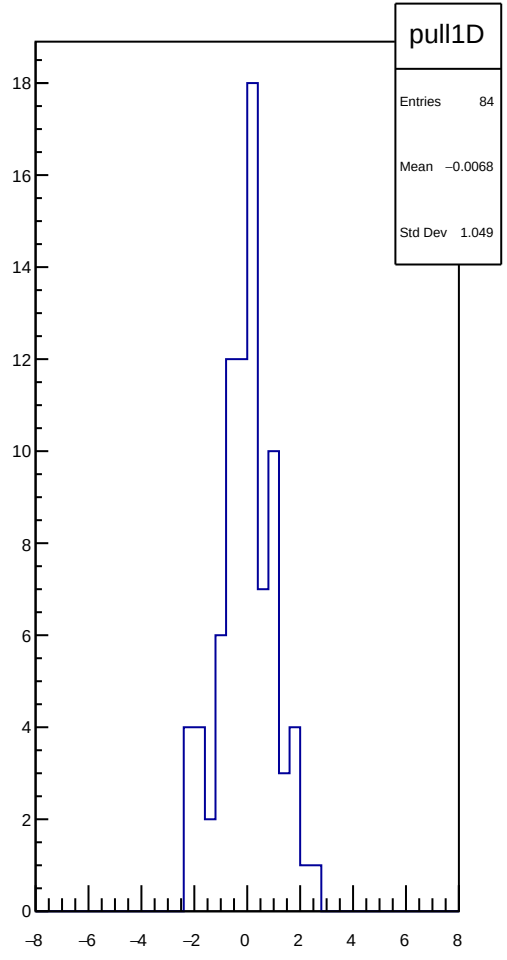

asym_atr_dd_rms vs run
χ^2 / ndf 5191 / 83
p0 4788 ± 3.76
5600
5400
5200
5000
4800
4600
4400
4200
4000

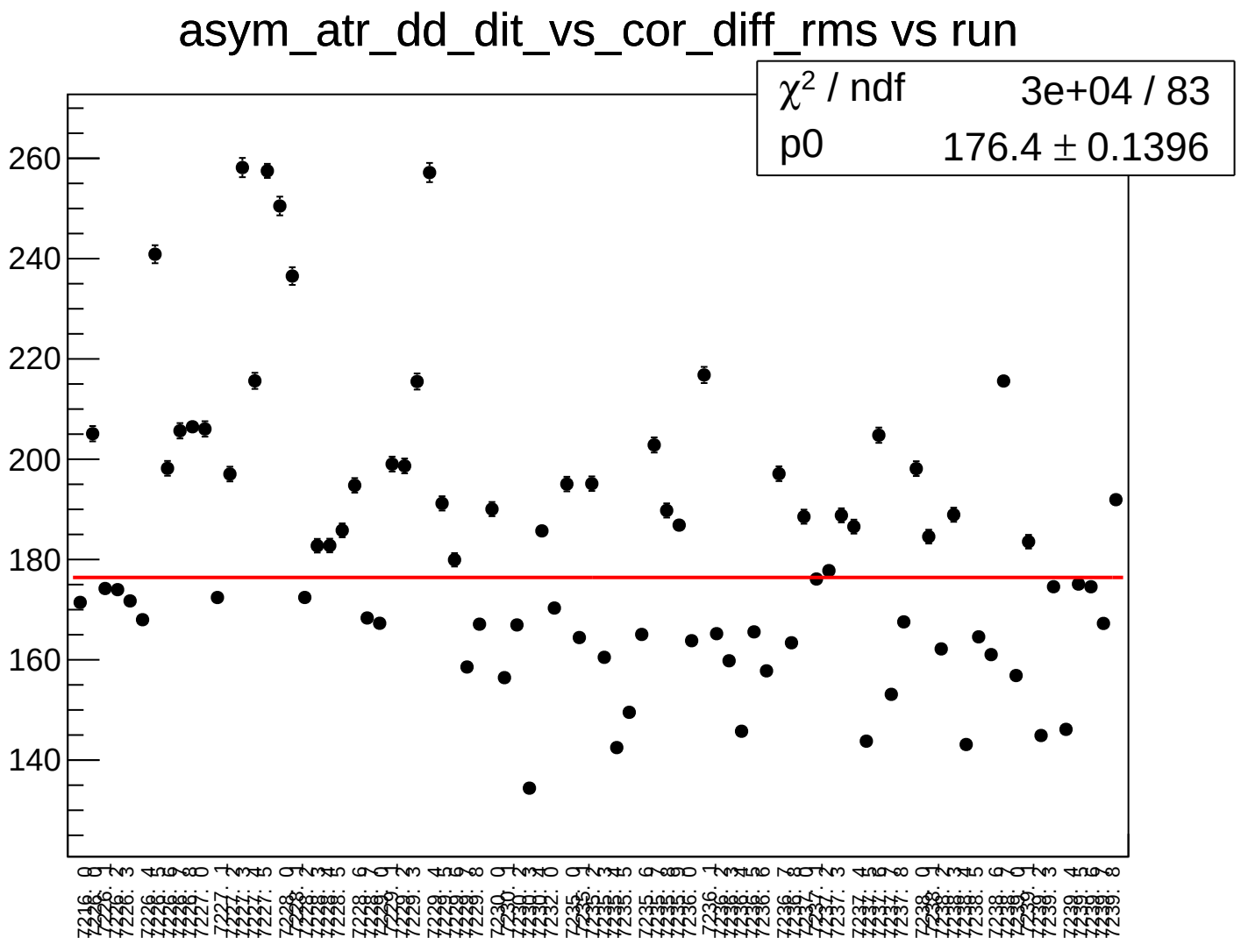

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 72.42 / 83
p0 −1.432e−13 ± 1.705e−13
pull
Entries 84
Mean 58.74
Std Dev 23.11

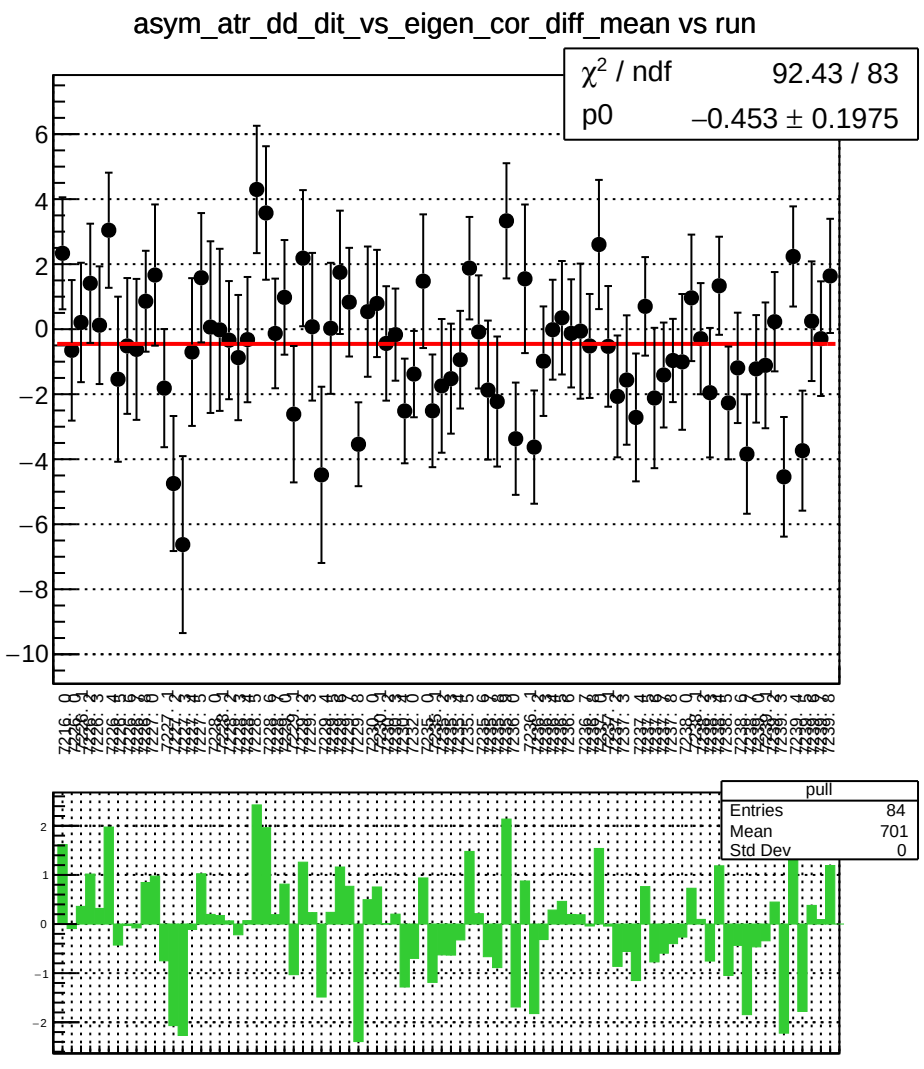

pull1D
Entries 84
Mean 0.09277
Std Dev 0.9239

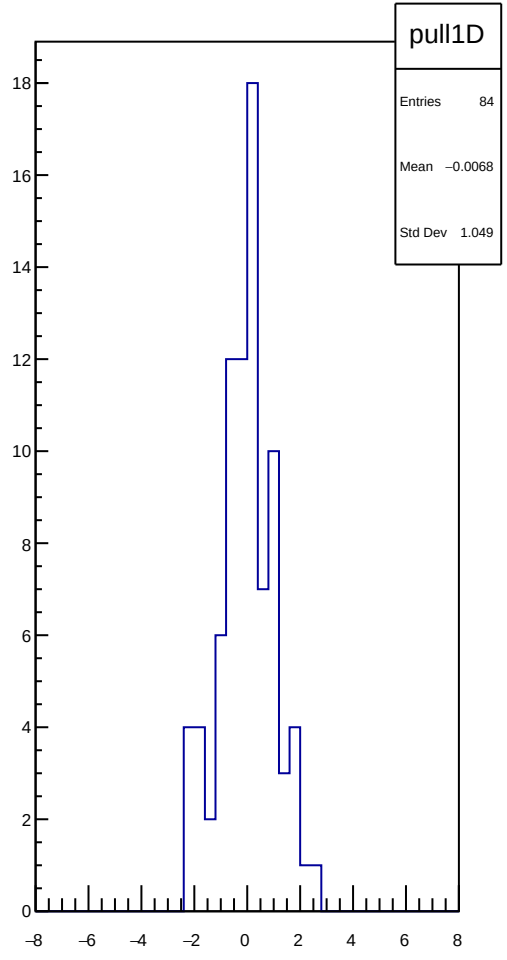

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.07e+06 / 83
p0 8.998e−11 ± 1.206e−13
1.2
1
0.8
0.6
0.4
0.2
0

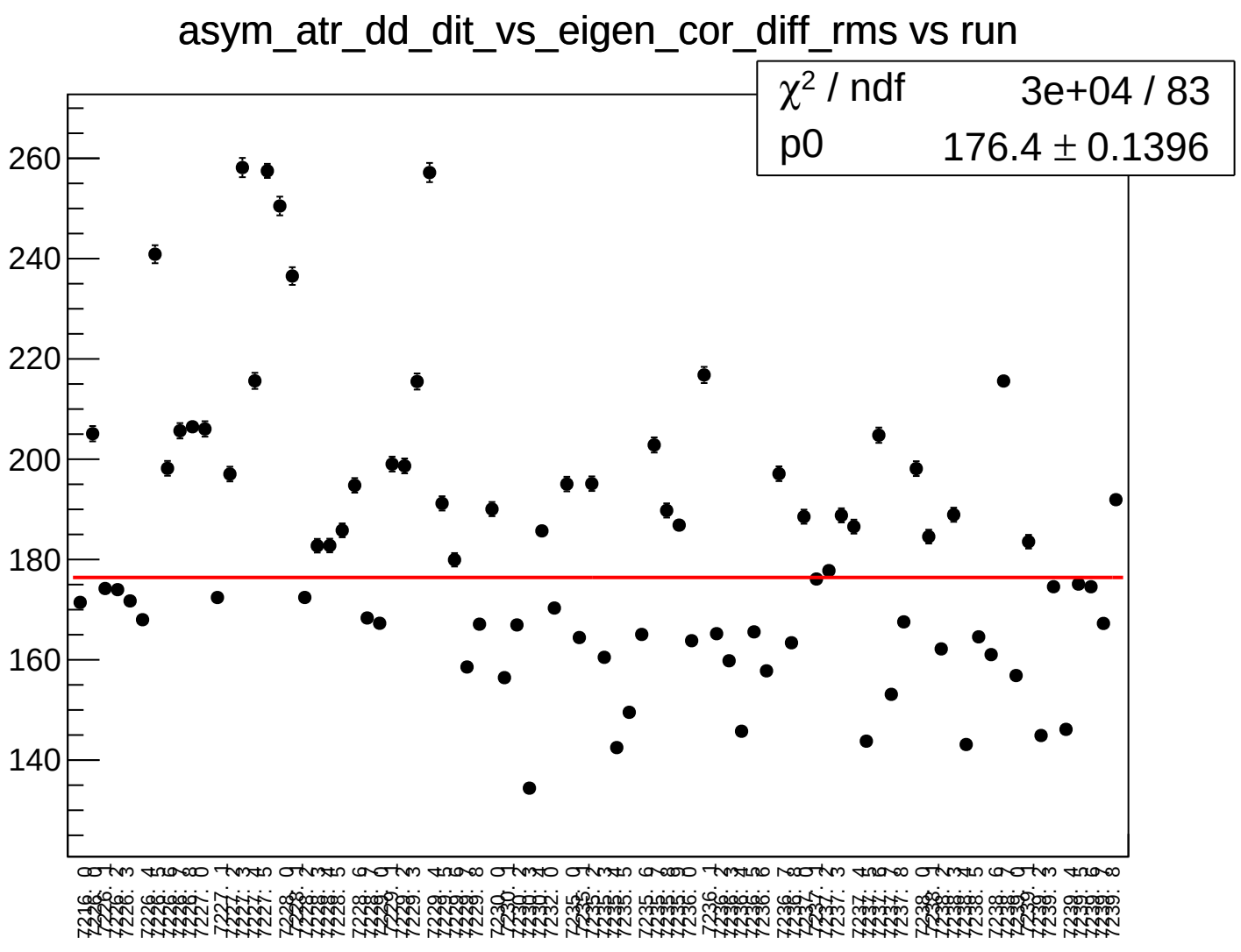

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 92.43 / 83
p0 −0.453 ± 0.1975
pull
Entries 84
Mean 701
Std Dev 0

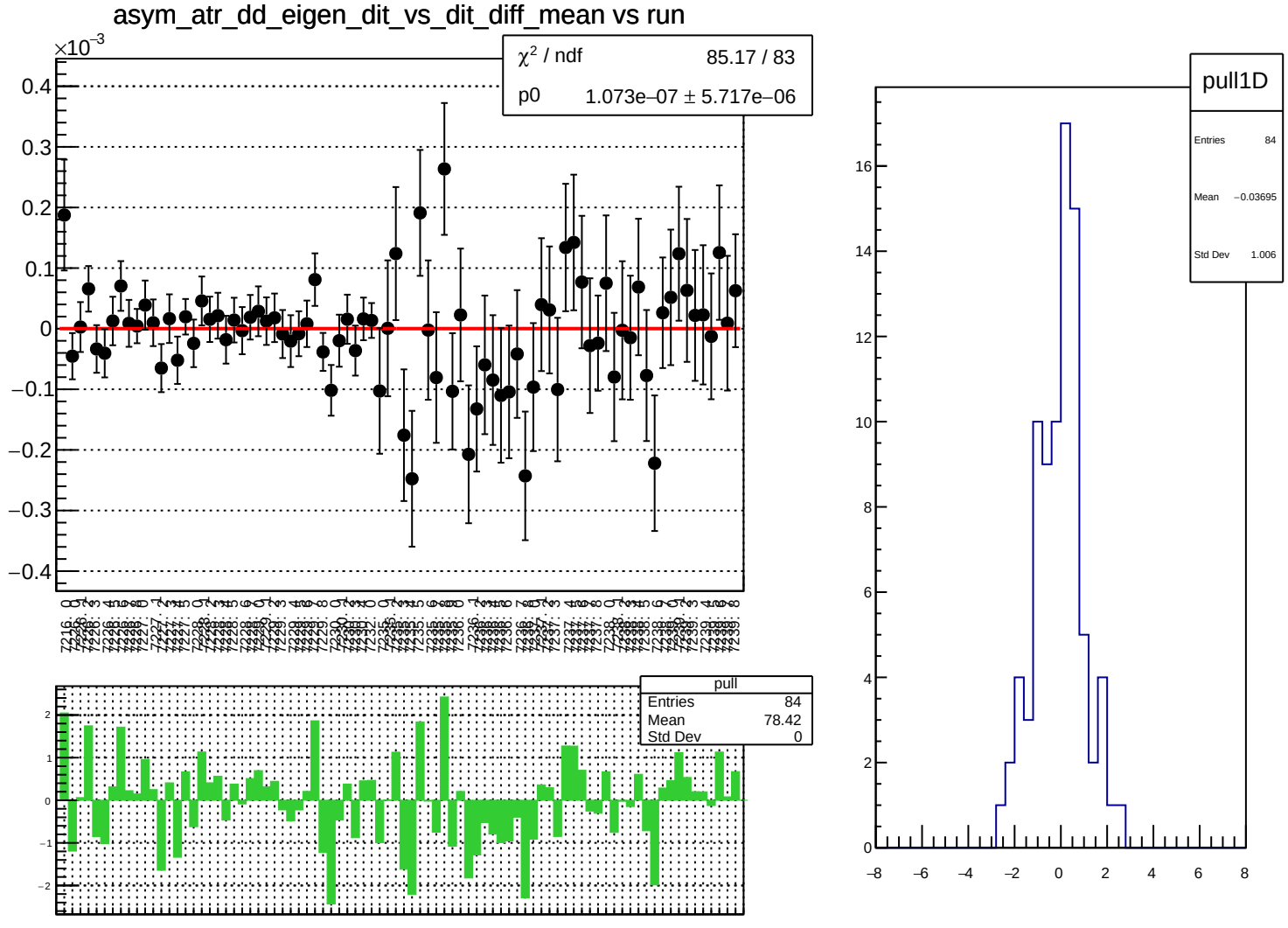

pull1D
Entries 84
Mean −0.0068
Std Dev 1.049

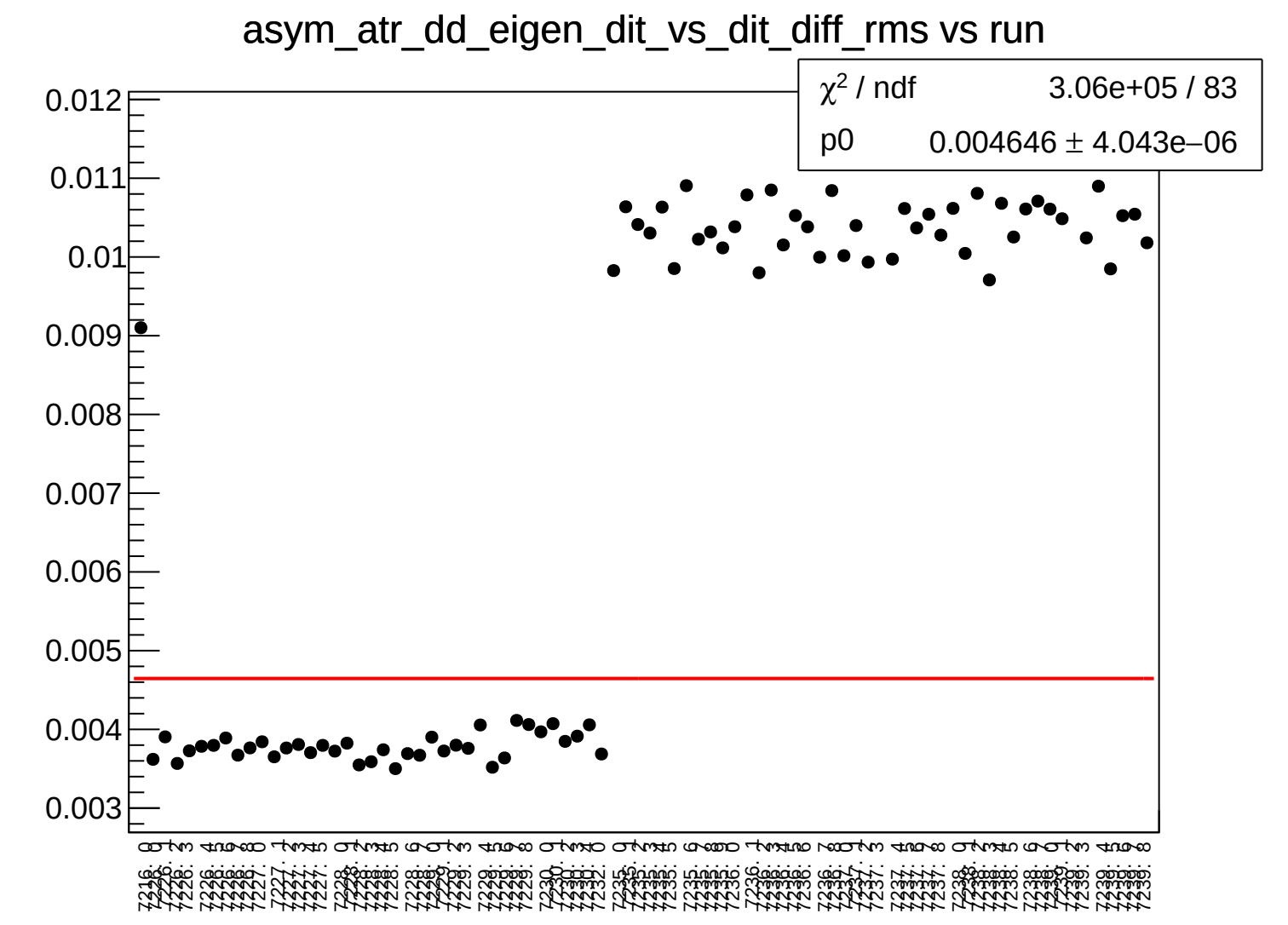

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3e+04 / 83
p0 176.4 ± 0.1396
260
240
220
200
180
160
140

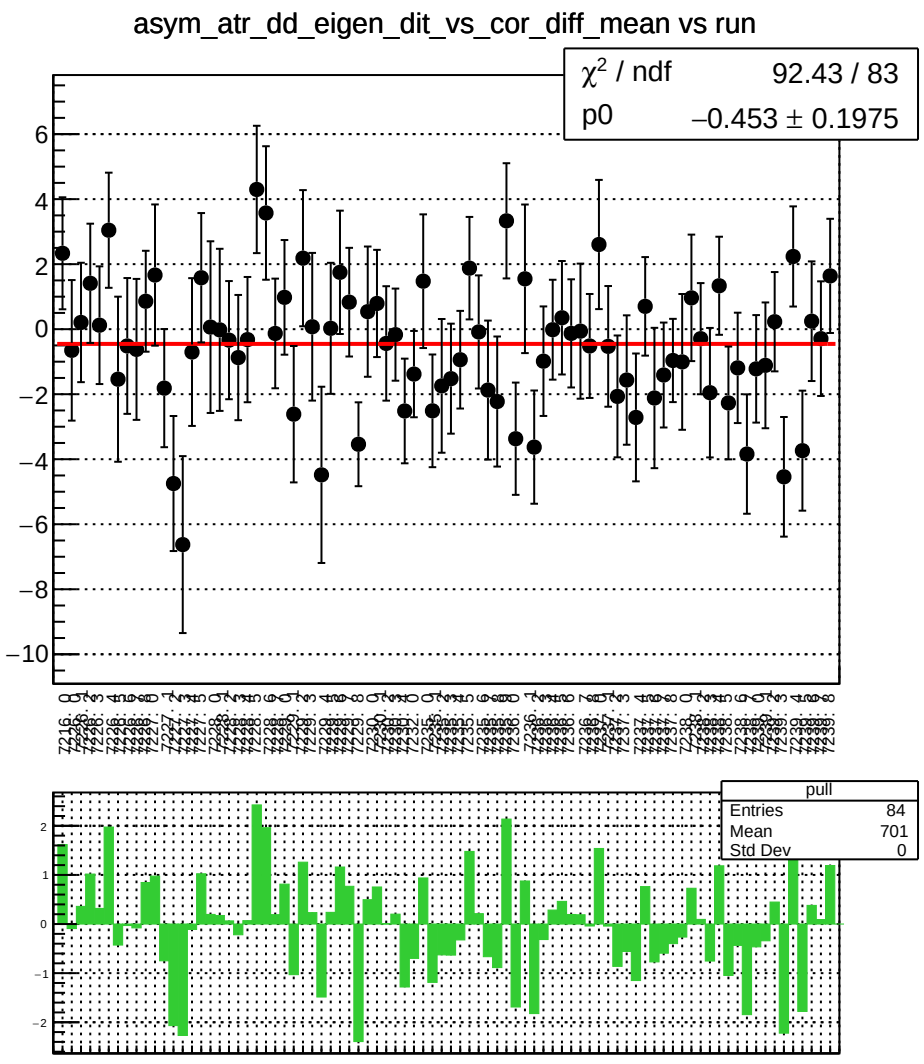

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.43 / 83
p0 −0.453 ± 0.1975
pull
Entries 84
Mean 701
Std Dev 0

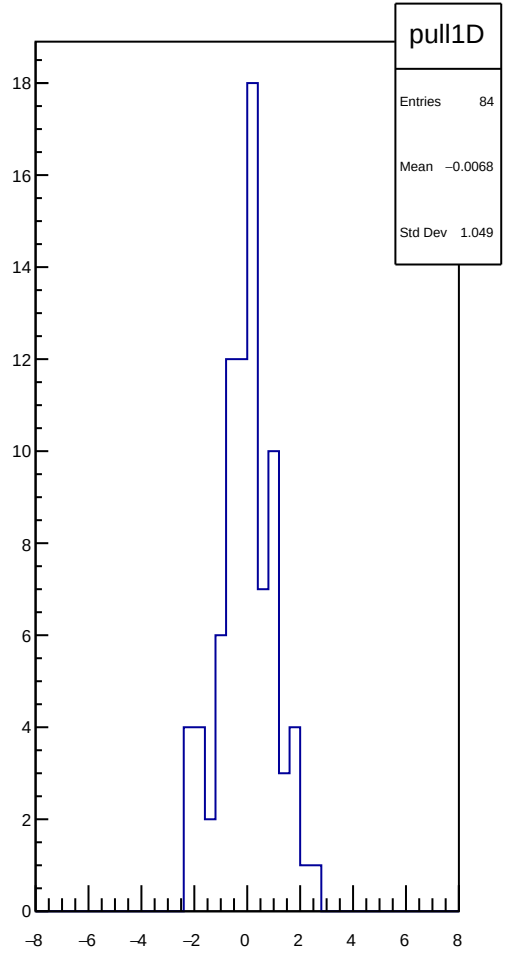

pull1D
Entries 84
Mean −0.0068
Std Dev 1.049

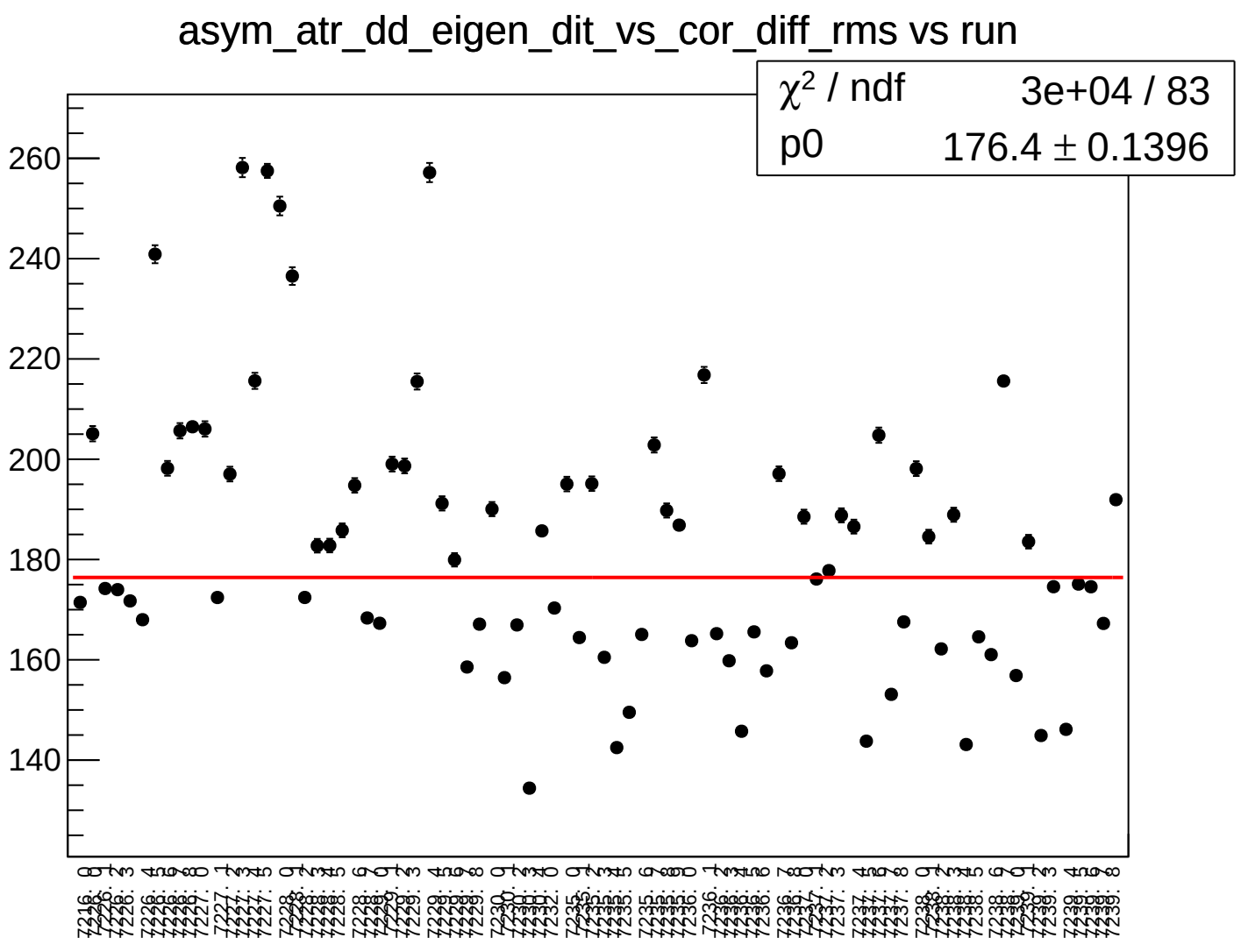

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3e+04 / 83
p0 176.4 ± 0.1396
260
240
220
200
180
160
140

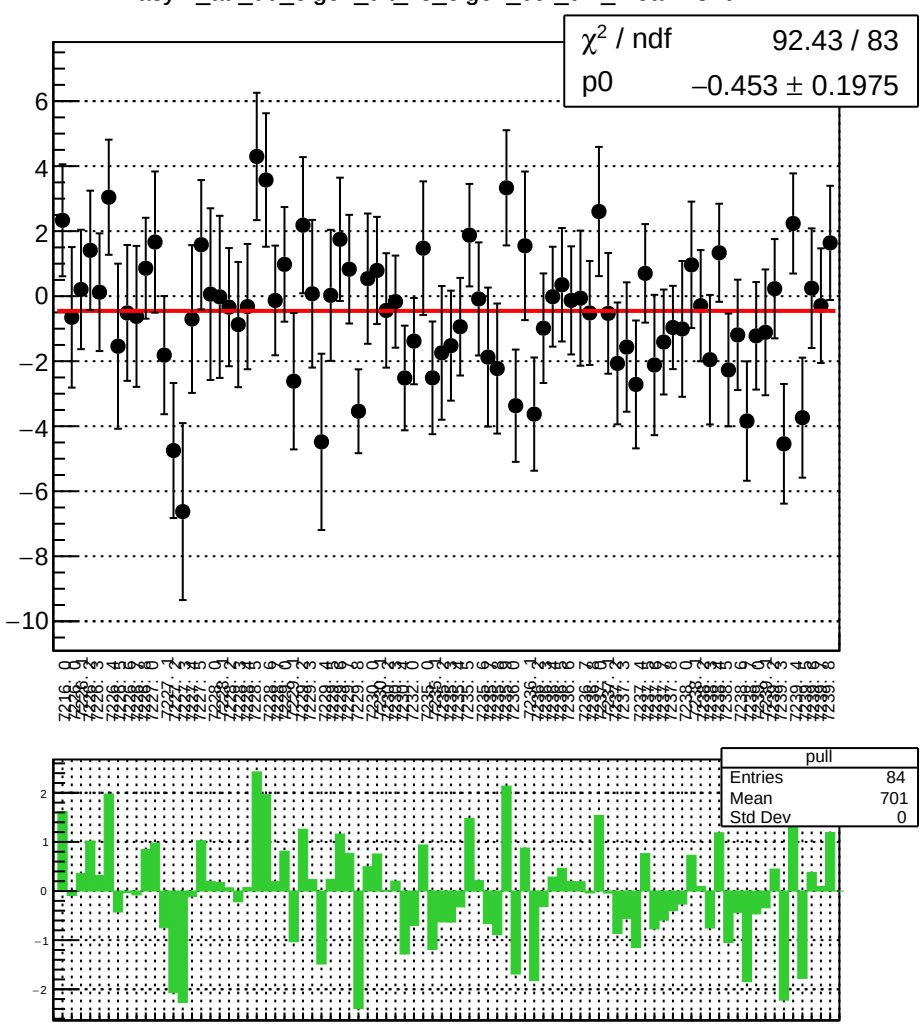

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.17 / 83
p0 1.073e−07 ± 5.717e−06
pull
Entries 84
Mean 78.42
Std Dev 0
pull1D
Entries 84
Mean −0.03695
Std Dev 1.006

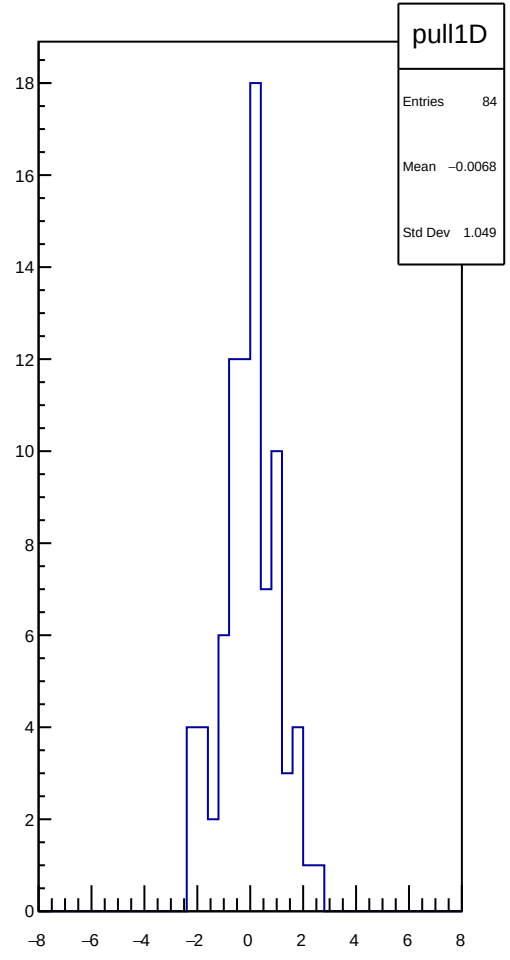

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.06e+05 / 83
p0 0.004646 ± 4.043e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

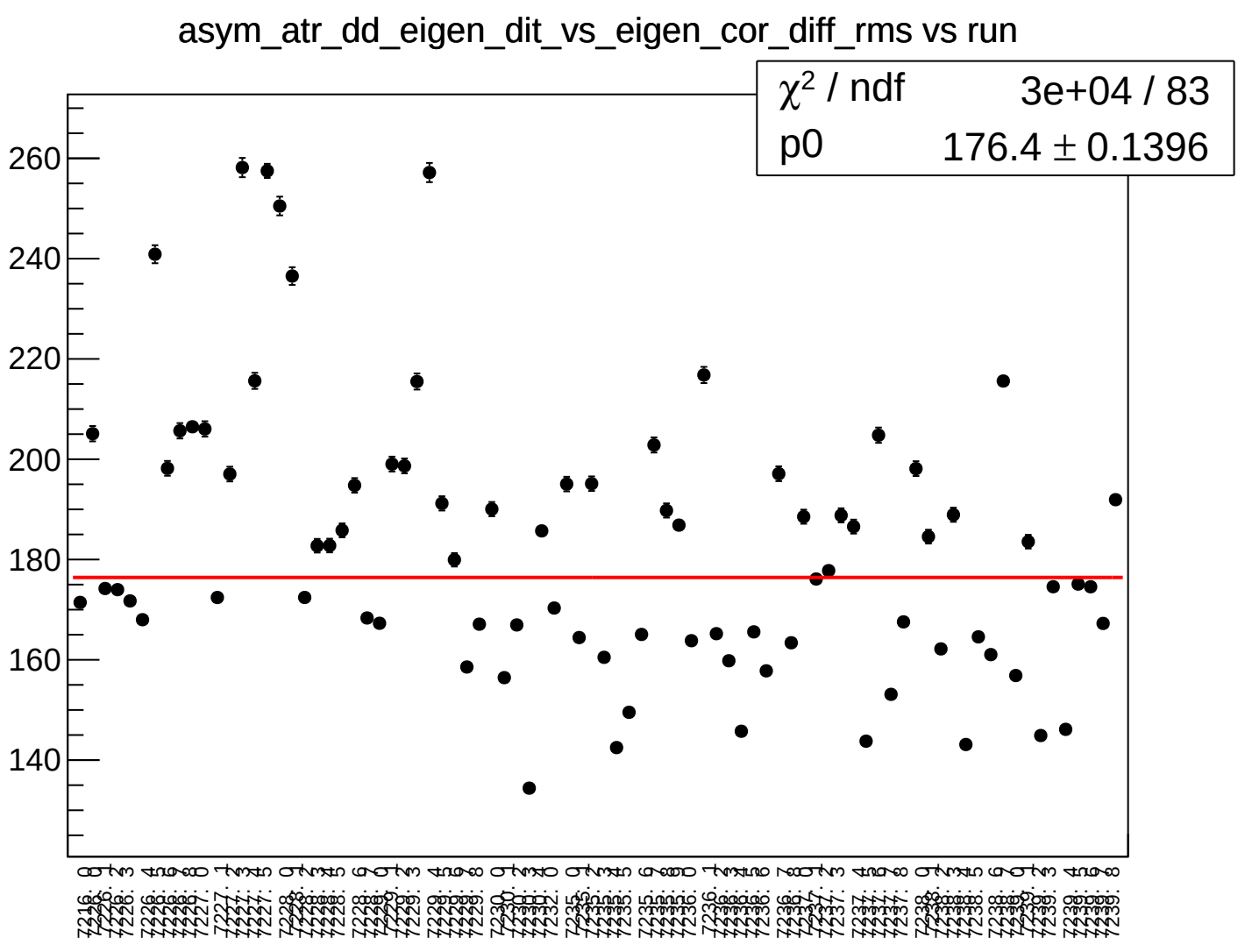

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.43 / 83
p0 −0.453 ± 0.1975
pull
Entries 84
Mean 701
Std Dev 0

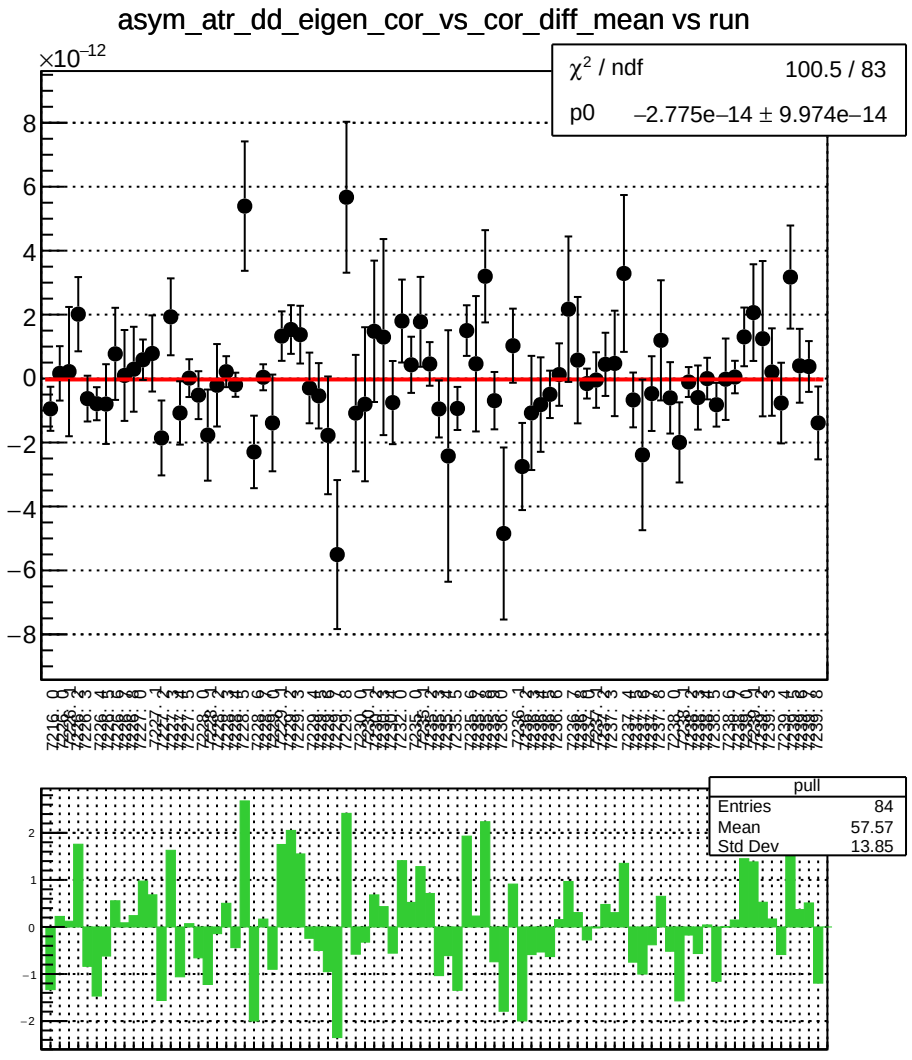

pull1D
Entries 84
Mean −0.0068
Std Dev 1.049

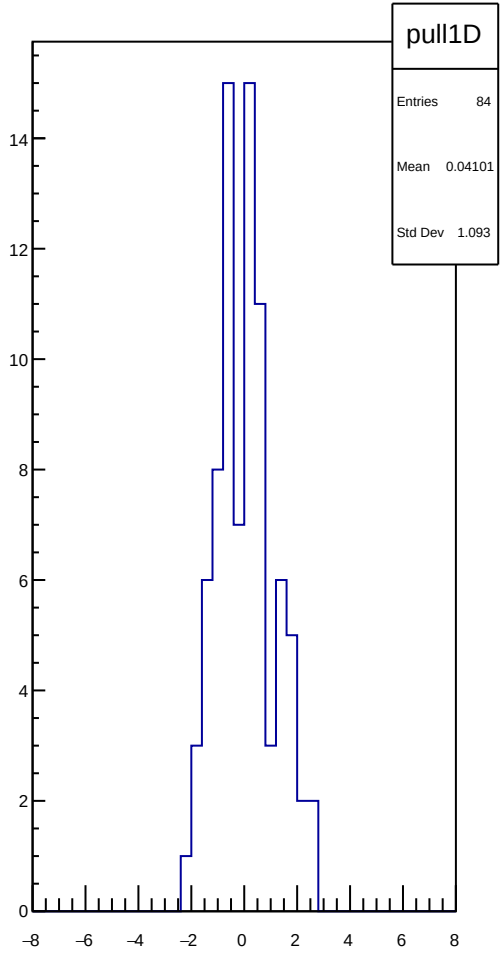

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3e+04 / 83
p0 176.4 ± 0.1396
260
240
220
200
180
160
140

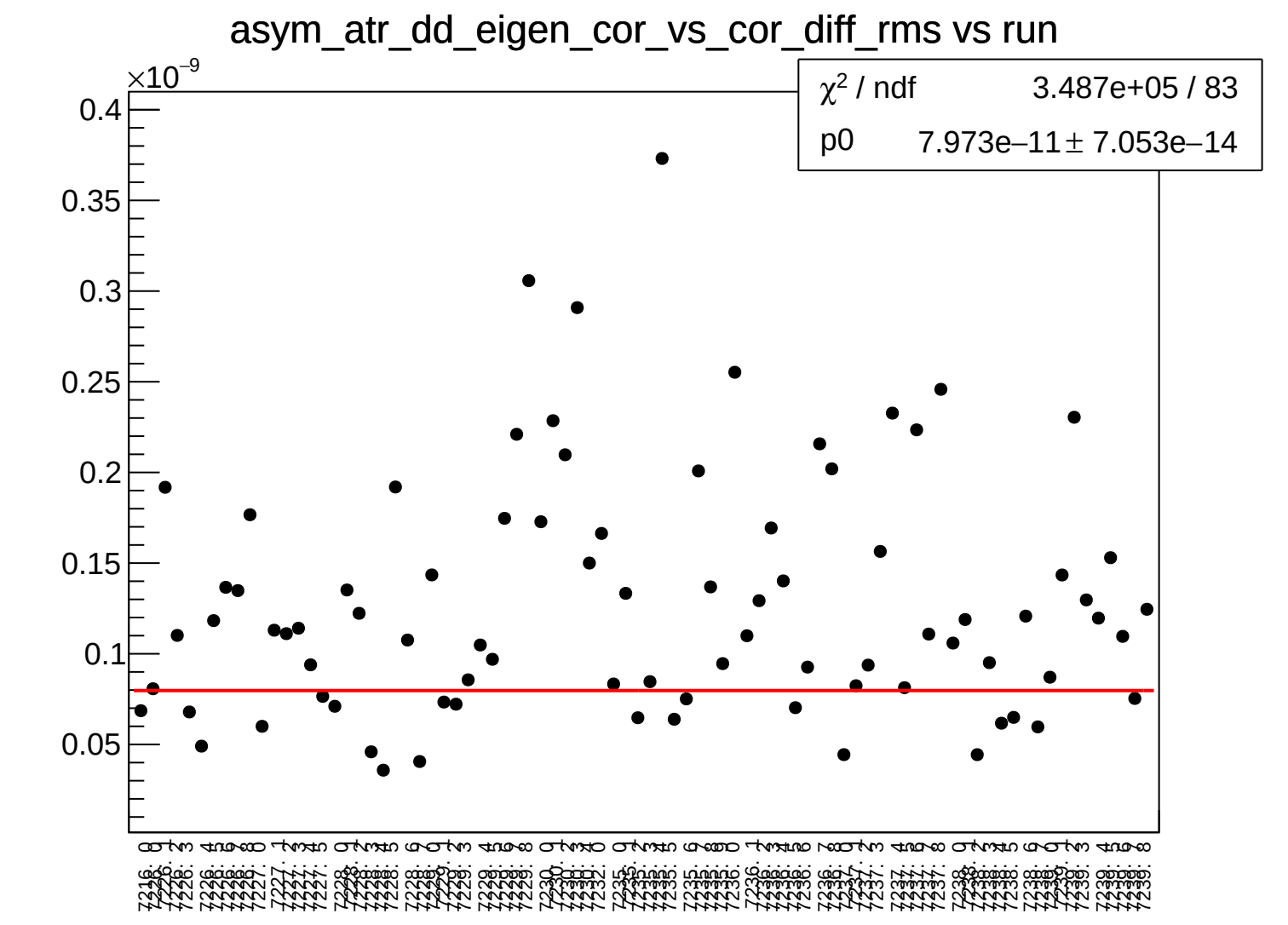

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.43 / 83
p0 −0.453 ± 0.1975
pull
Entries 84
Mean 701
Std Dev 0

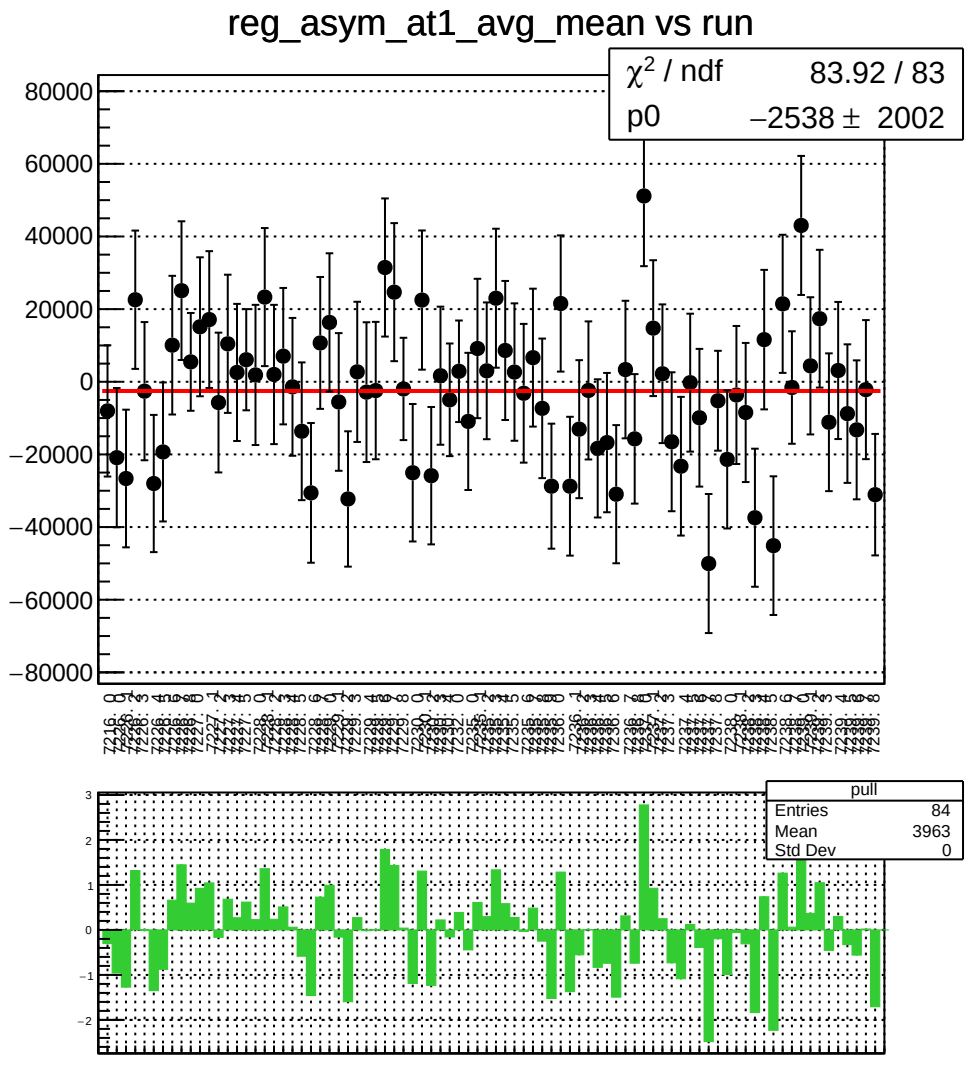

pull1D
Entries 84
Mean −0.0068
Std Dev 1.049

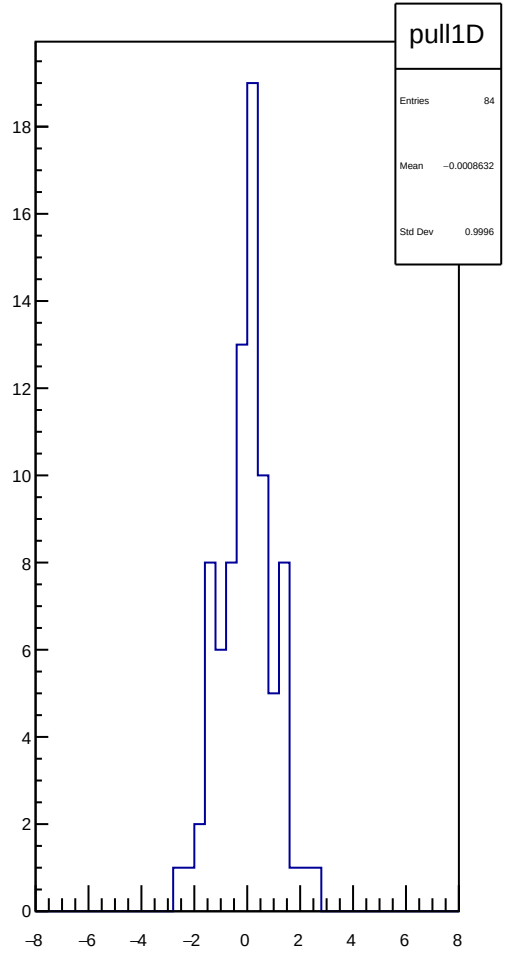

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3e+04 / 83
p0 176.4 ± 0.1396
260
240
220
200
180
160
140

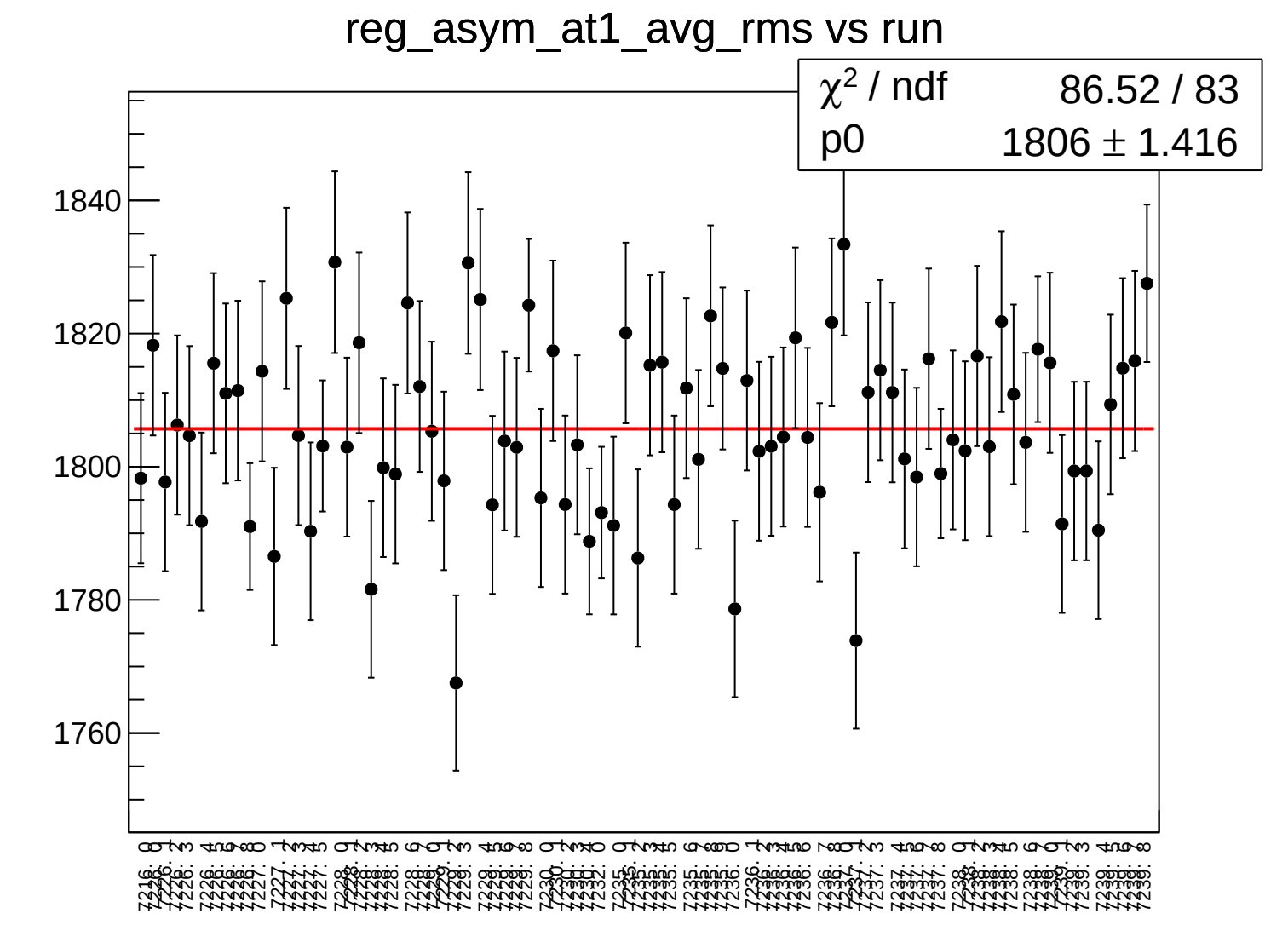

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 100.5 / 83
p0 −2.775e−14 ± 9.974e−14
pull
Entries 84
Mean 57.57
Std Dev 13.85

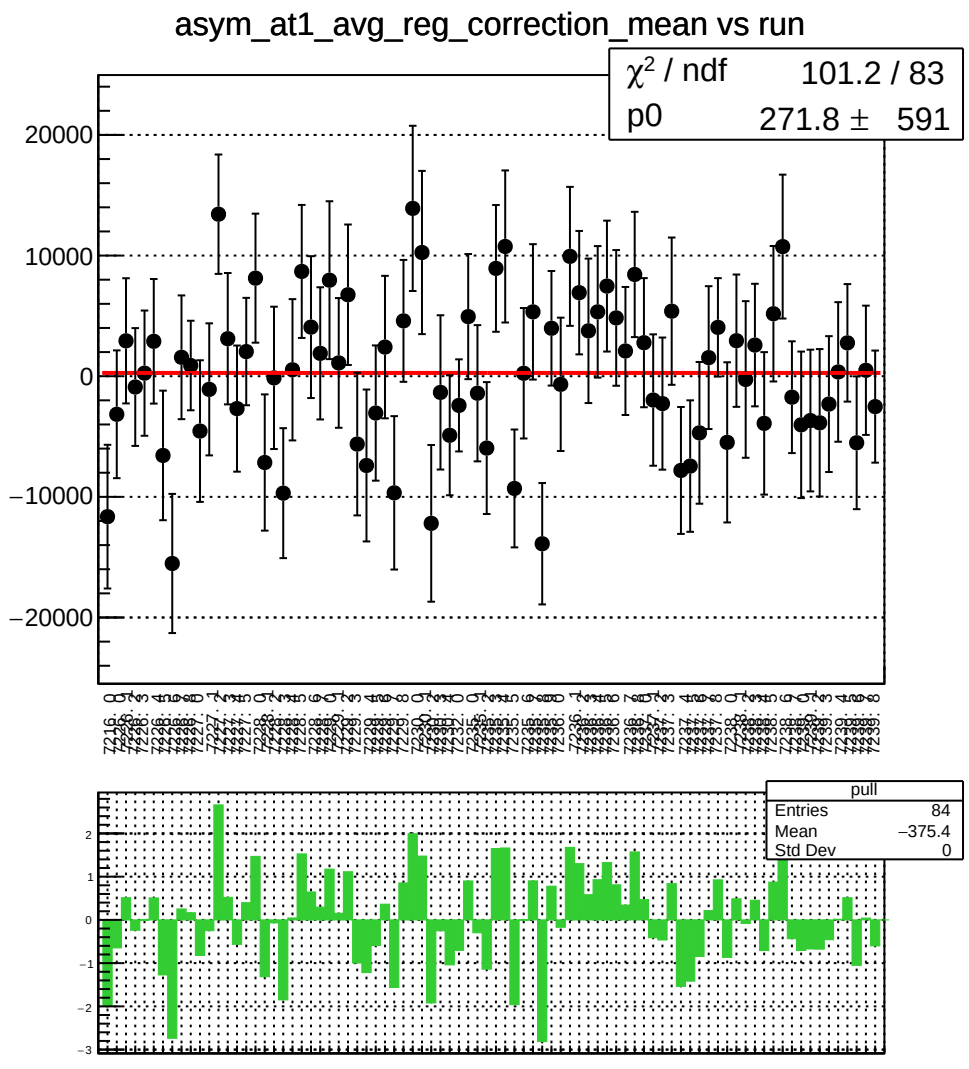

pull1D
Entries 84
Mean 0.04101
Std Dev 1.093

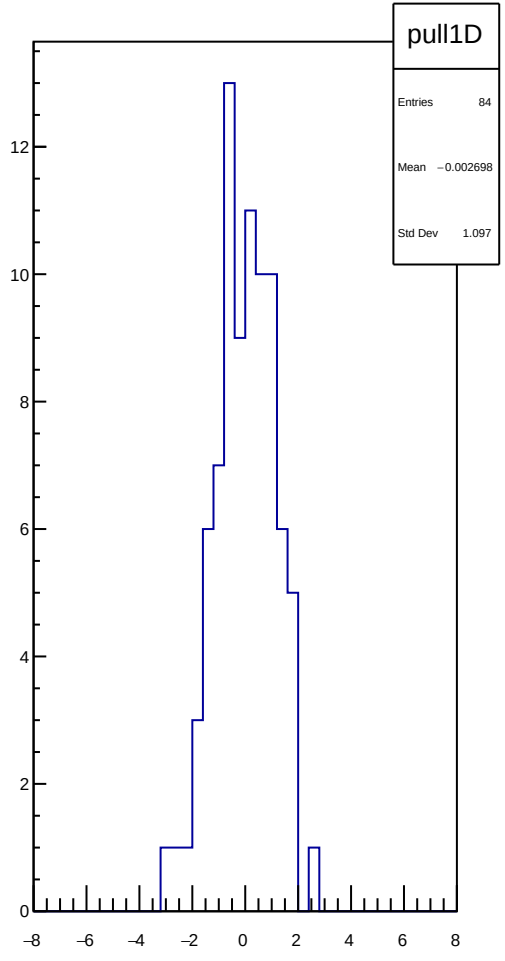

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.487e+05 / 83
p0 7.973e−11 ± 7.053e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

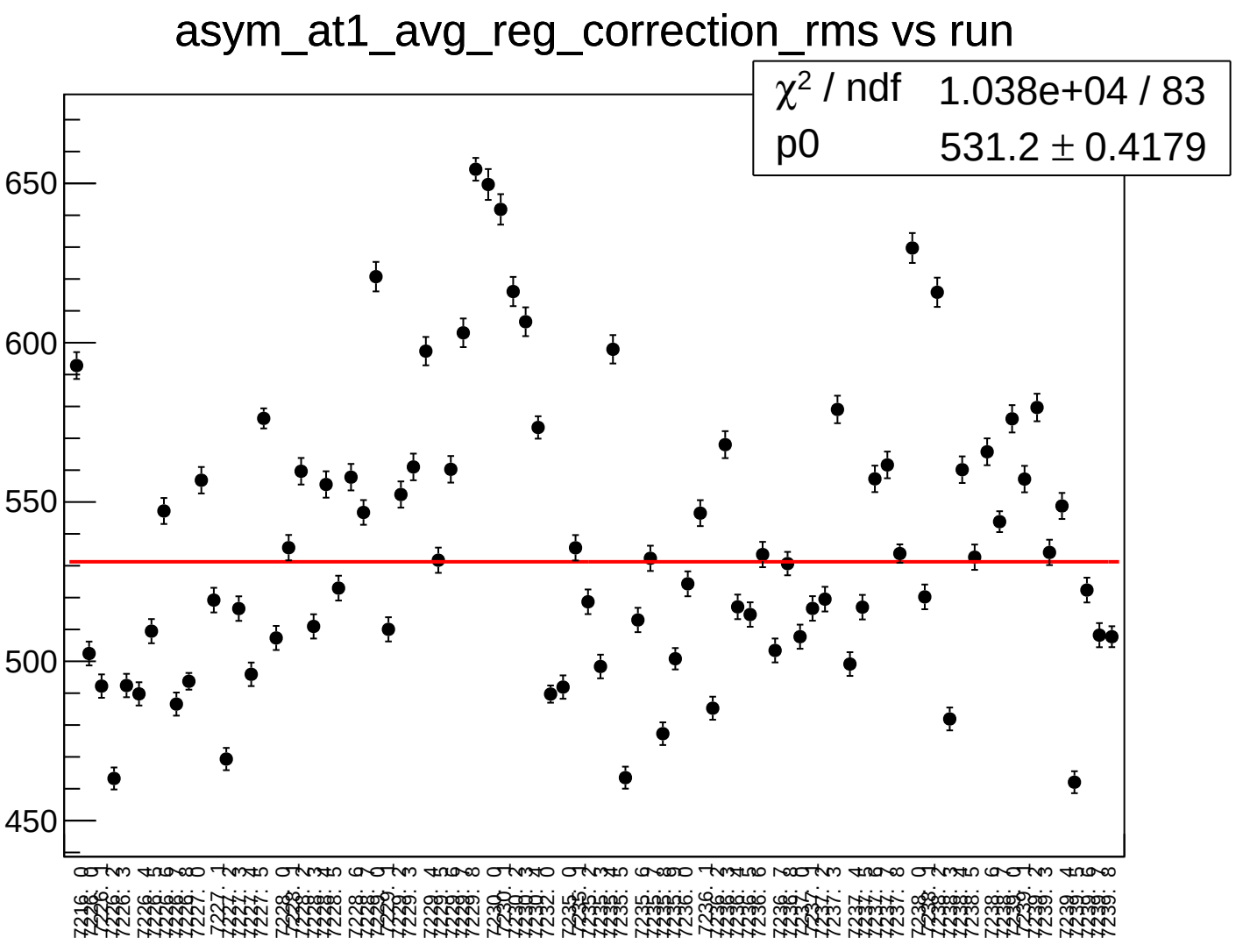

reg_asym_at1_avg_mean vs run
χ² / ndf 83.92 / 83
p0 −2538 ± 2002
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean 3963
Std Dev 0
3
2
1
0
−1
−2

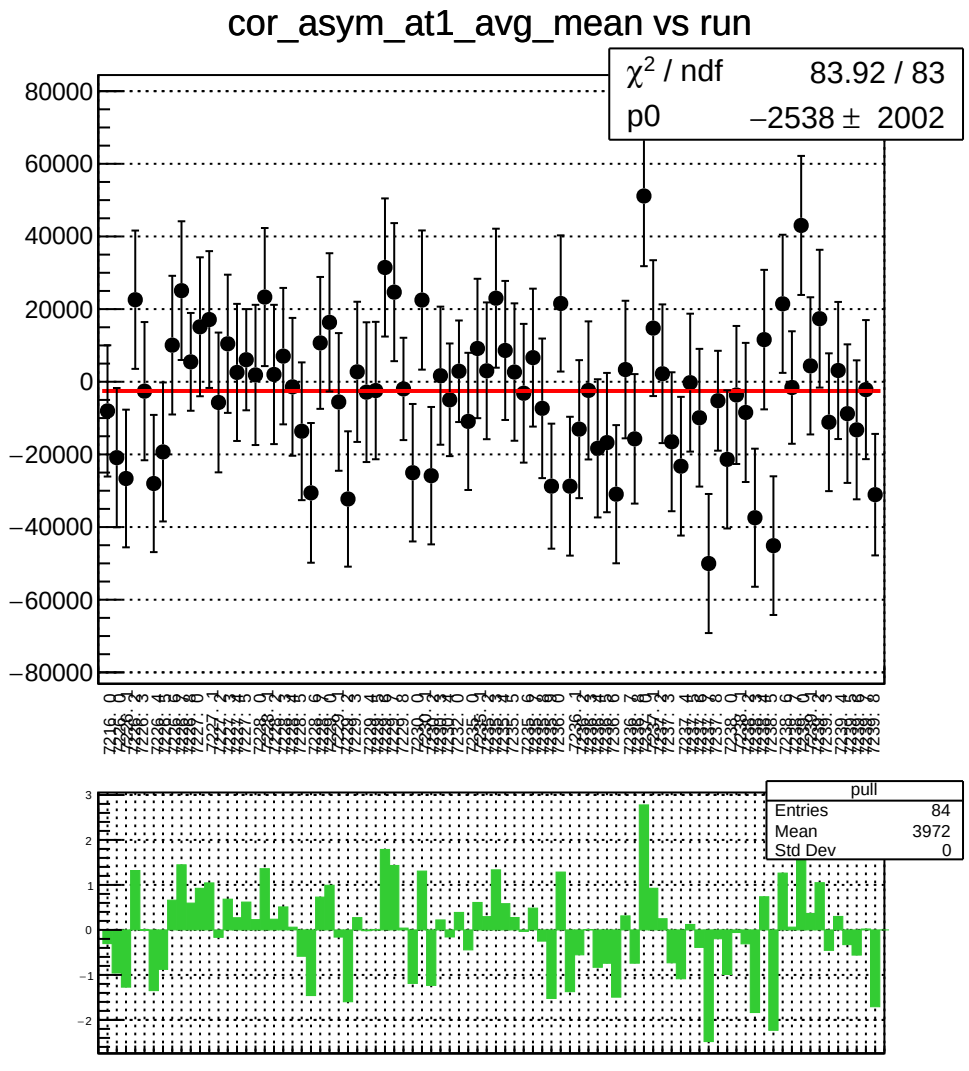

pull1D
Entries 84
Mean −0.0008632
Std Dev 0.9996
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

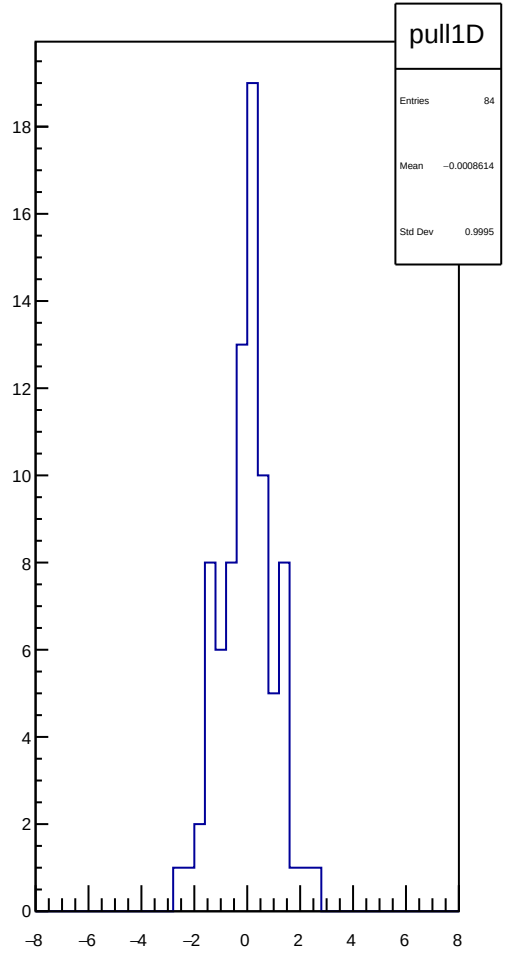

reg_asym_at1_avg_rms vs run
χ^2 / ndf 86.52 / 83
p0 1806 ± 1.416
1840
1820
1800
1780
1760

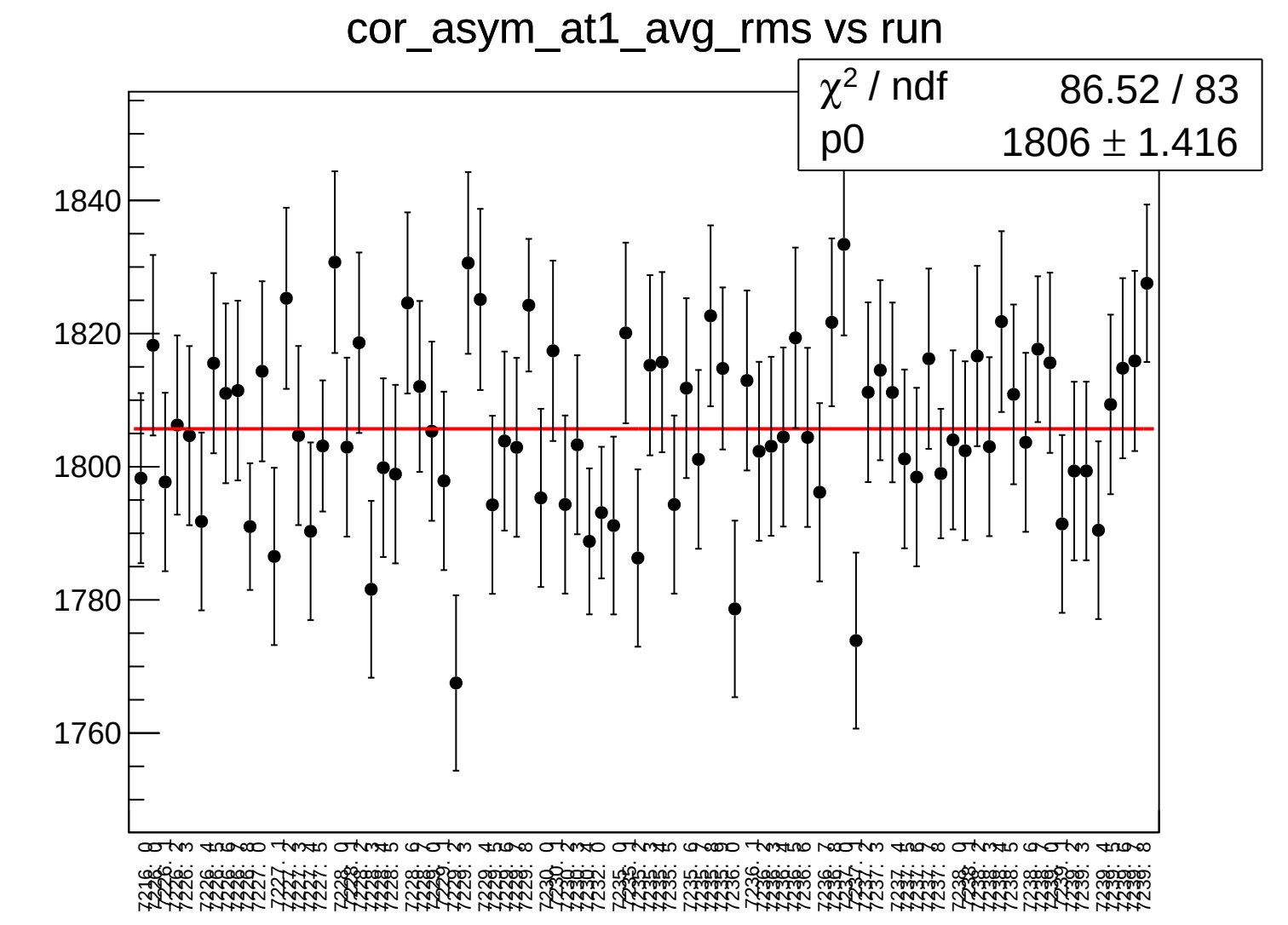

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 101.2 / 83
p0 271.8 ± 591
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −375.4
Std Dev 0
2
1
0
−1
−2
−3

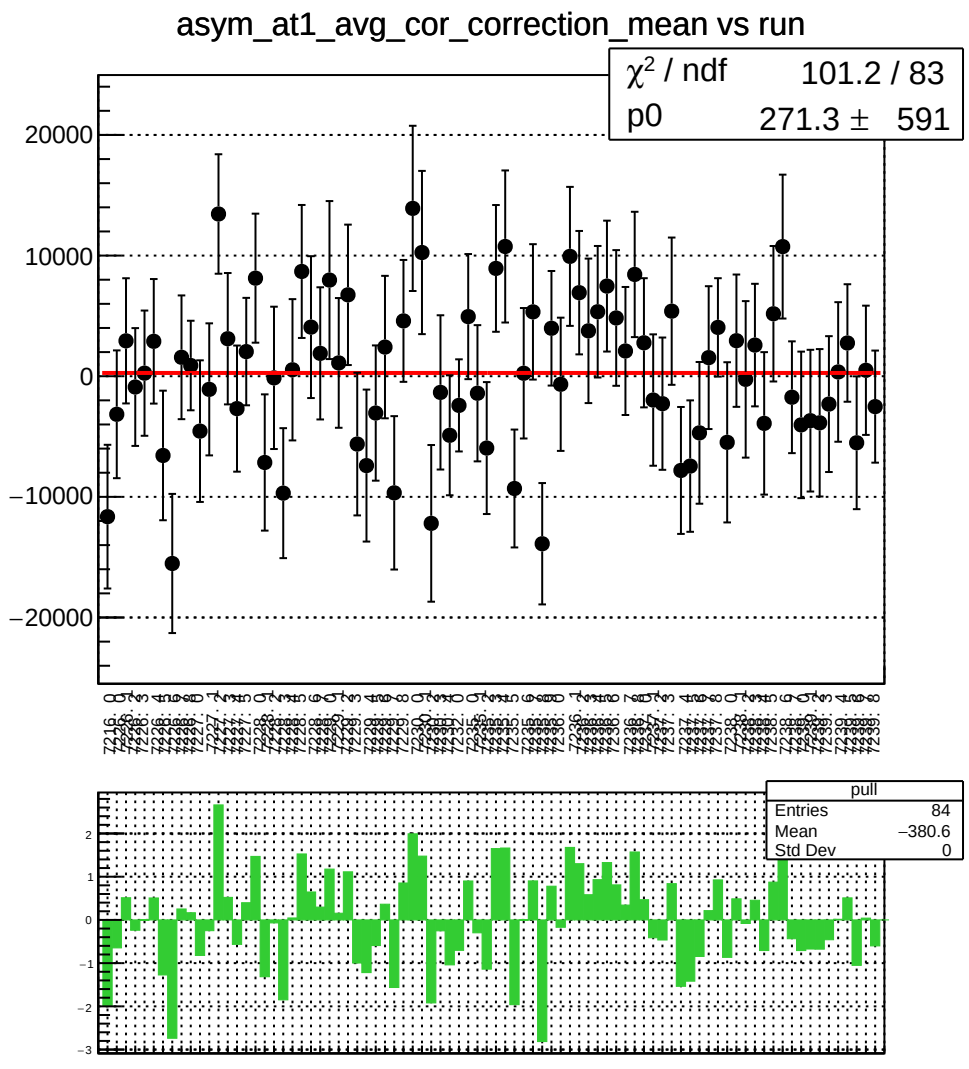

pull1D
Entries 84
Mean −0.002698
Std Dev 1.097
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

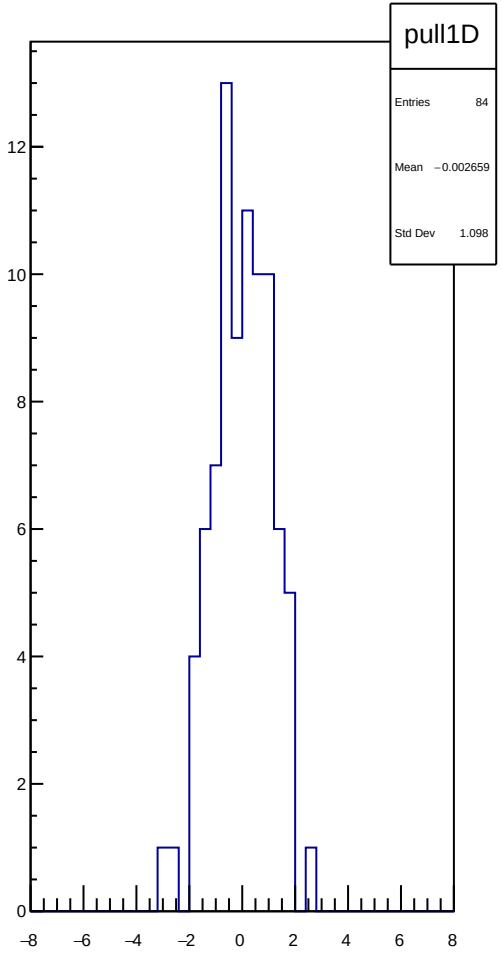

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 1.038e+04 / 83
p0 531.2 ± 0.4179
650
600
550
500
450

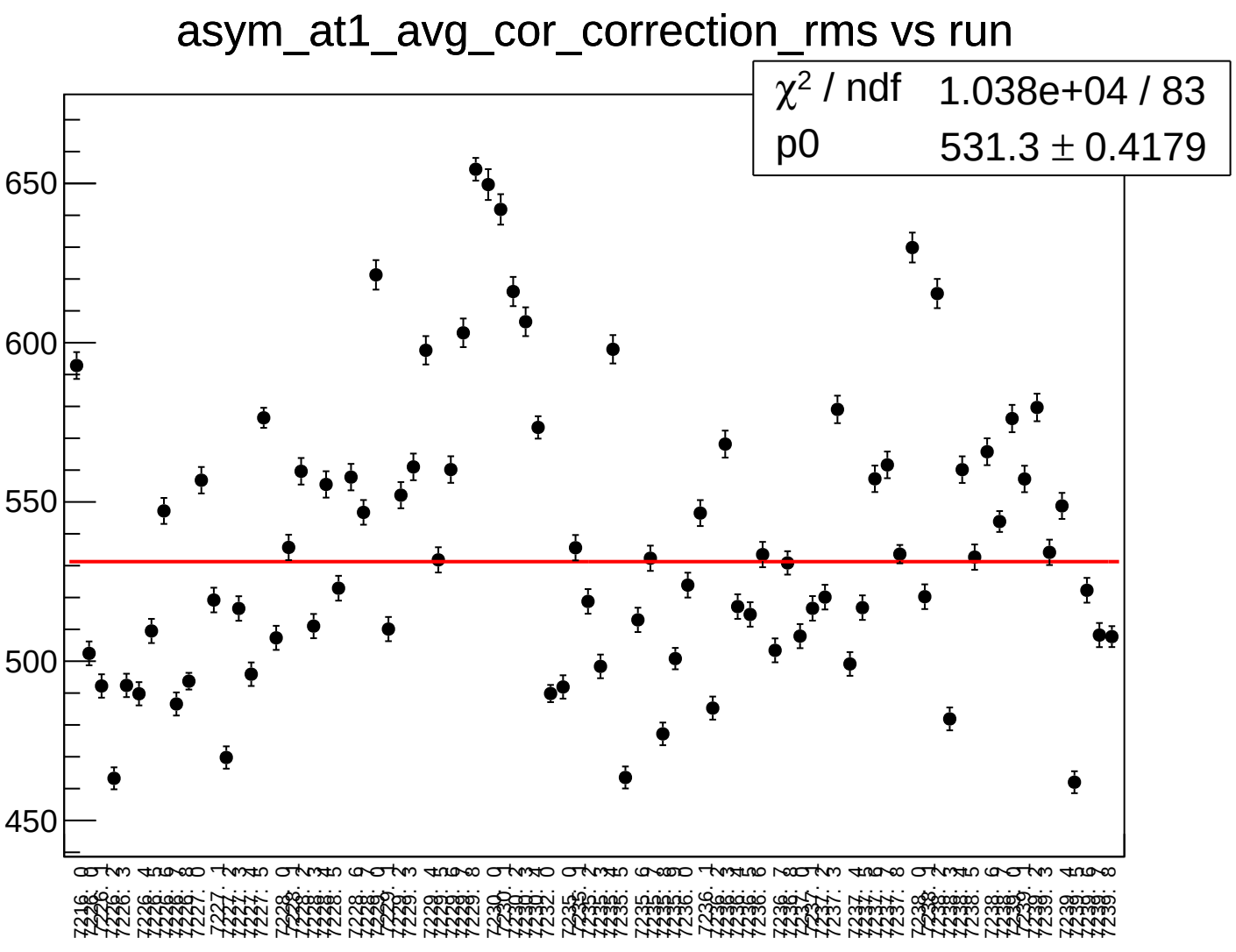

cor_asym_at1_avg_mean vs run
χ² / ndf 83.92 / 83
p0 −2538 ± 2002
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean 3972
Std Dev 0
3
2
1
0
−1
−2

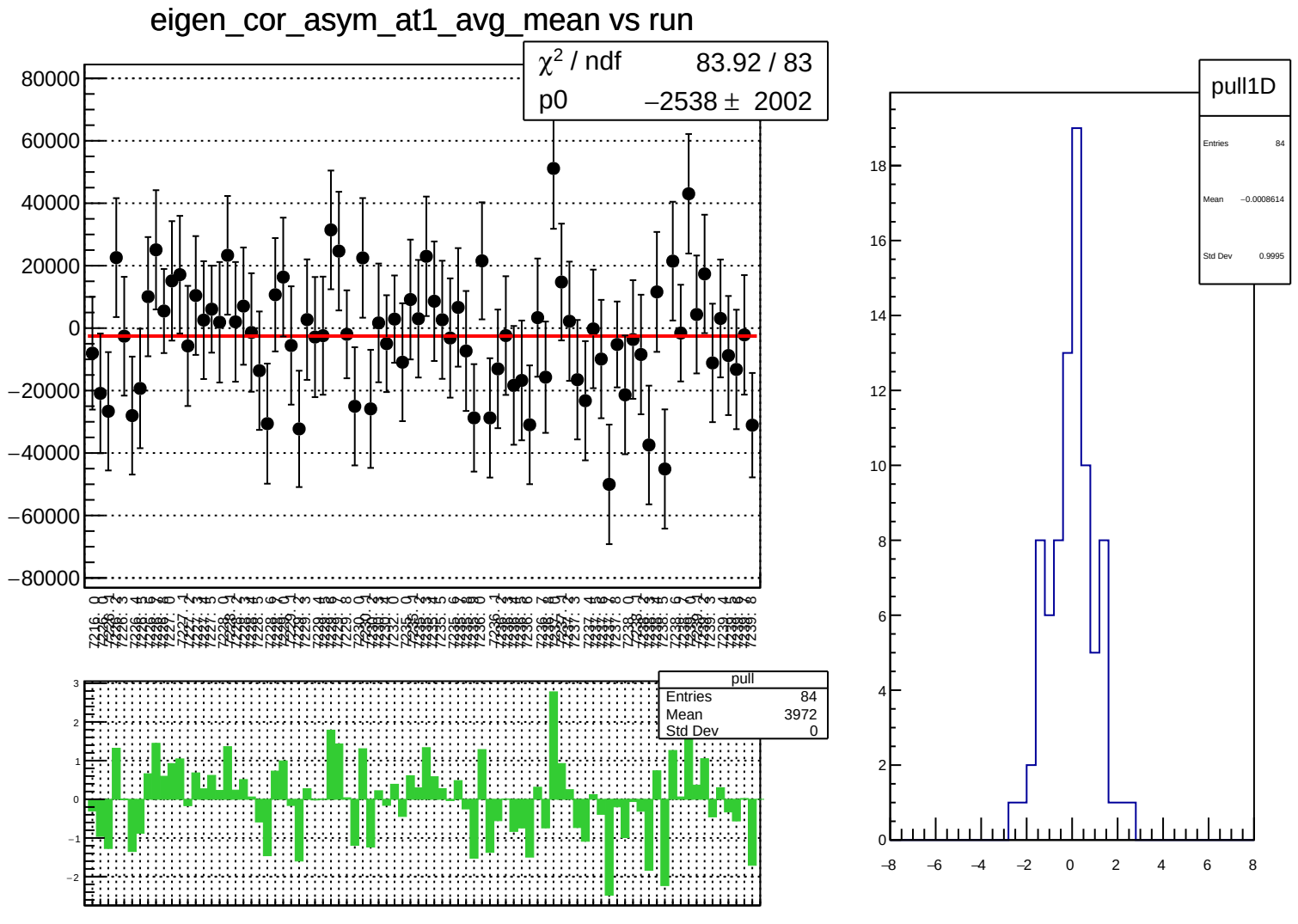

pull1D
Entries 84
Mean −0.0008614
Std Dev 0.9995
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

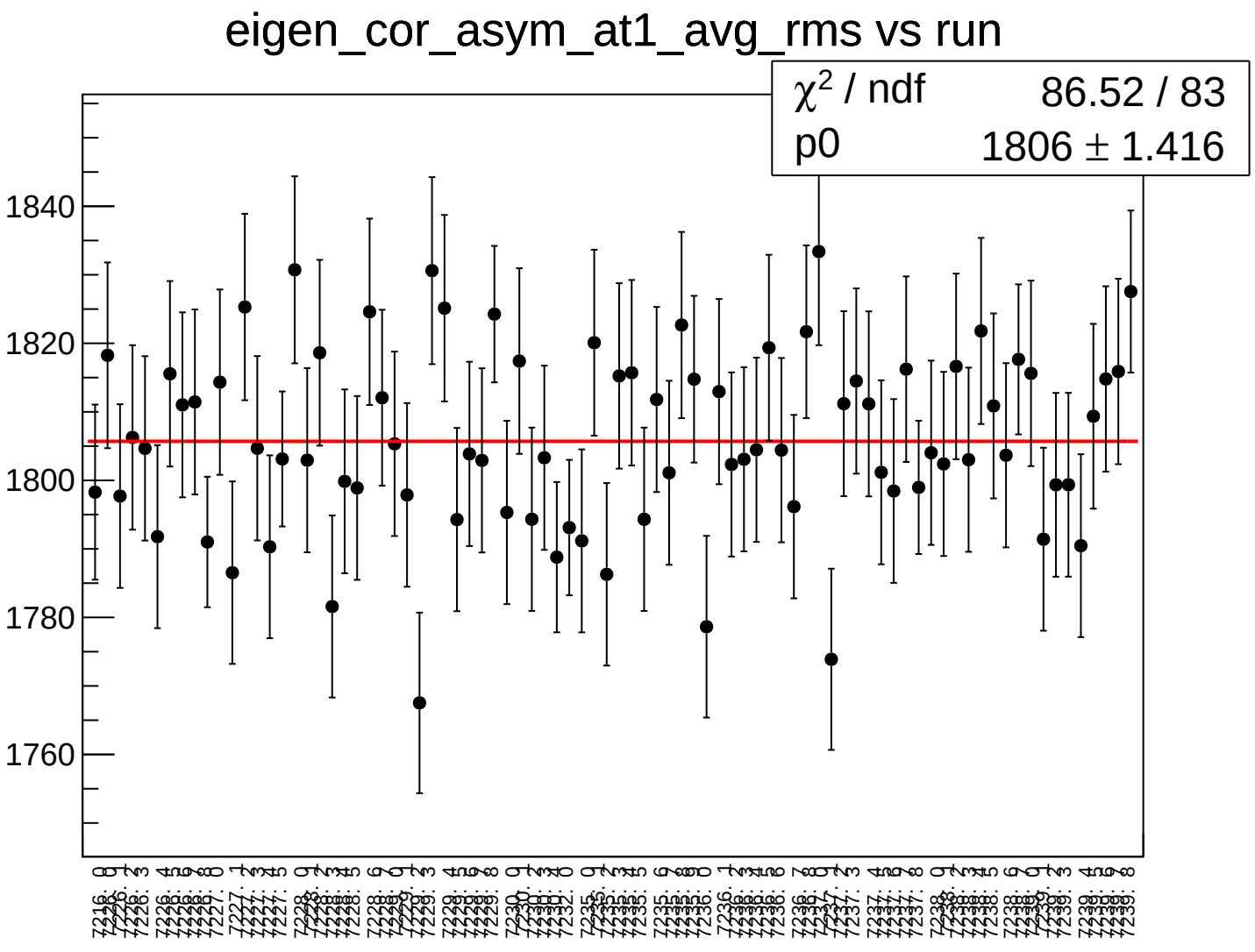

cor_asym_at1_avg_rms vs run
χ^2 / ndf 86.52 / 83
p0 1806 ± 1.416
1840
1820
1800
1780
1760

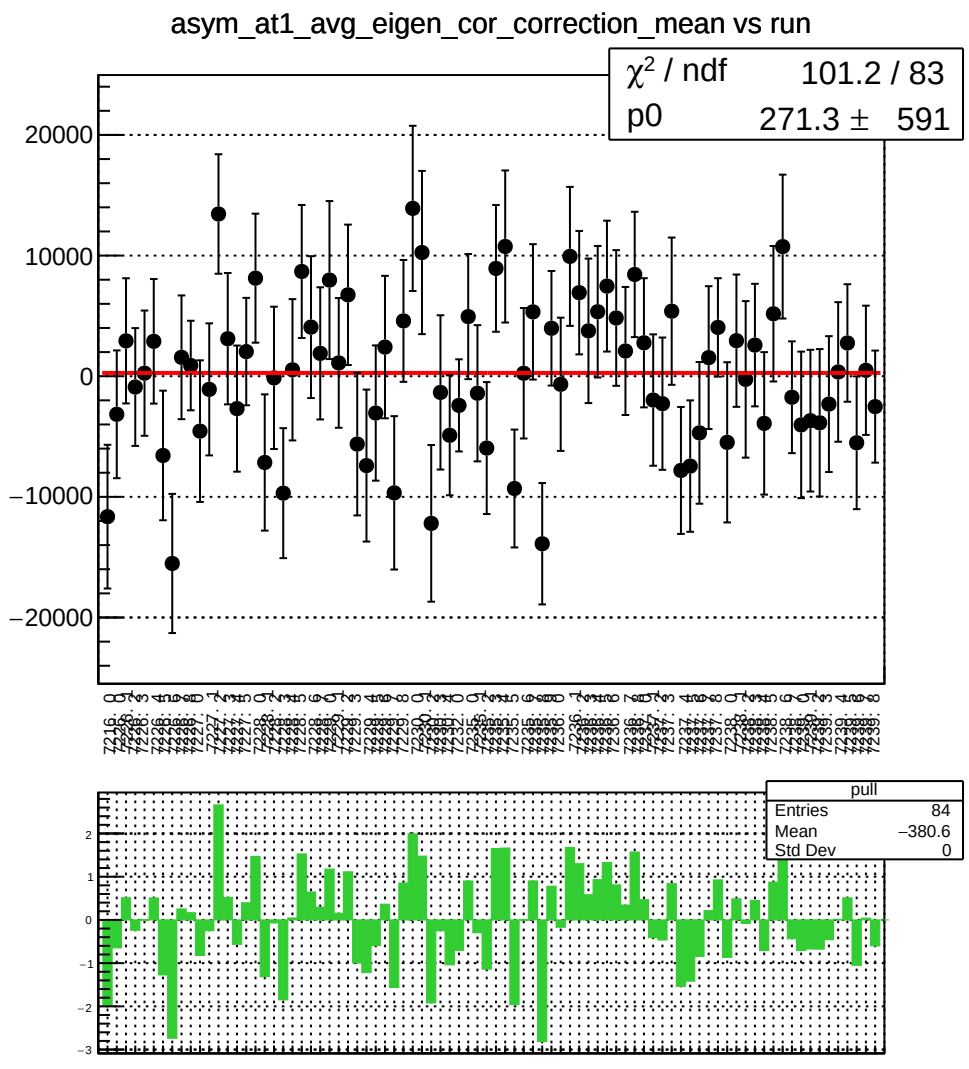

asym_at1_avg_cor_correction_mean vs run
χ² / ndf 101.2 / 83
p0 271.3 ± 591
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −380.6
Std Dev 0
2
1
0
−1
−2
−3

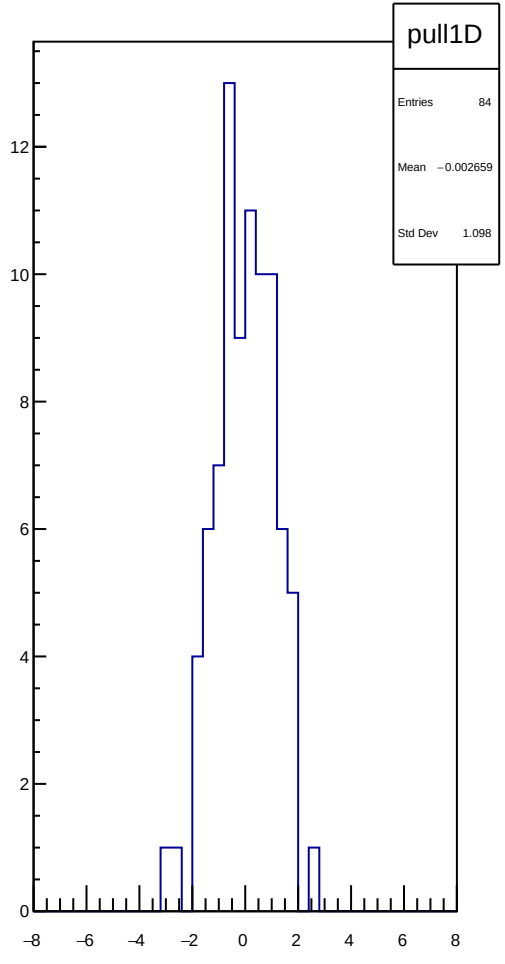

pull1D
Entries 84
Mean −0.002659
Std Dev 1.098
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

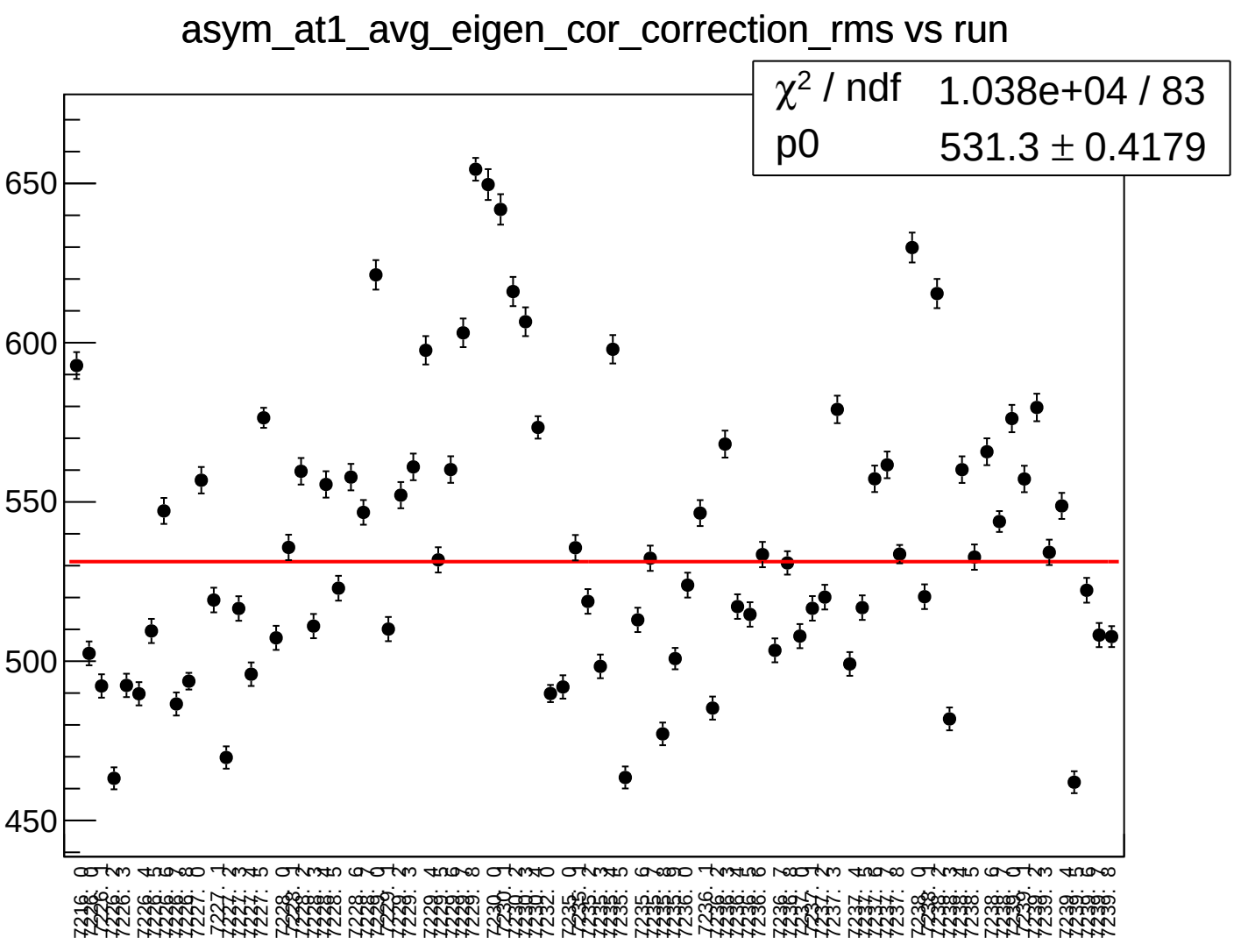

asym_at1_avg_cor_correction_rms vs run
χ² / ndf 1.038e+04 / 83
p0 531.3 ± 0.4179
650
600
550
500
450

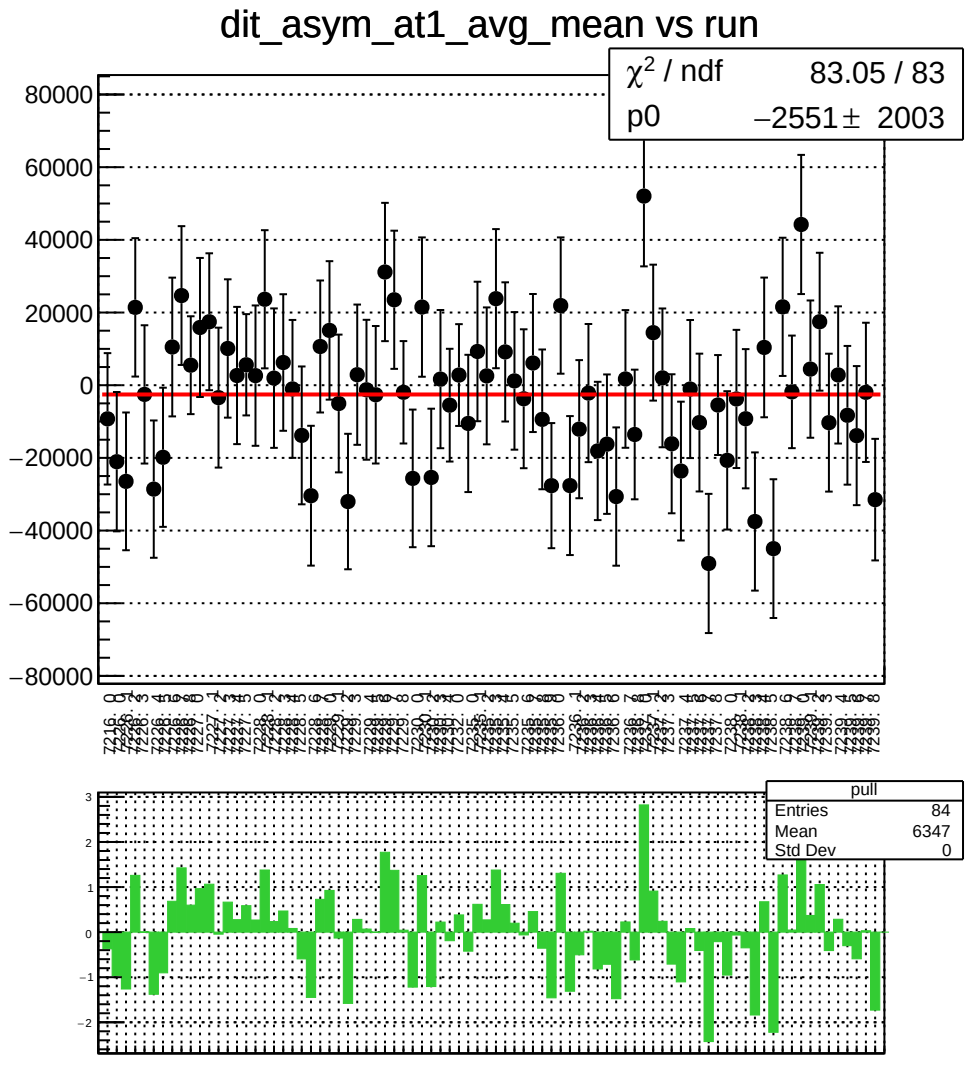

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 83.92 / 83
p0 −2538 ± 2002
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean 3972
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.0008614
Std Dev 0.9995
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

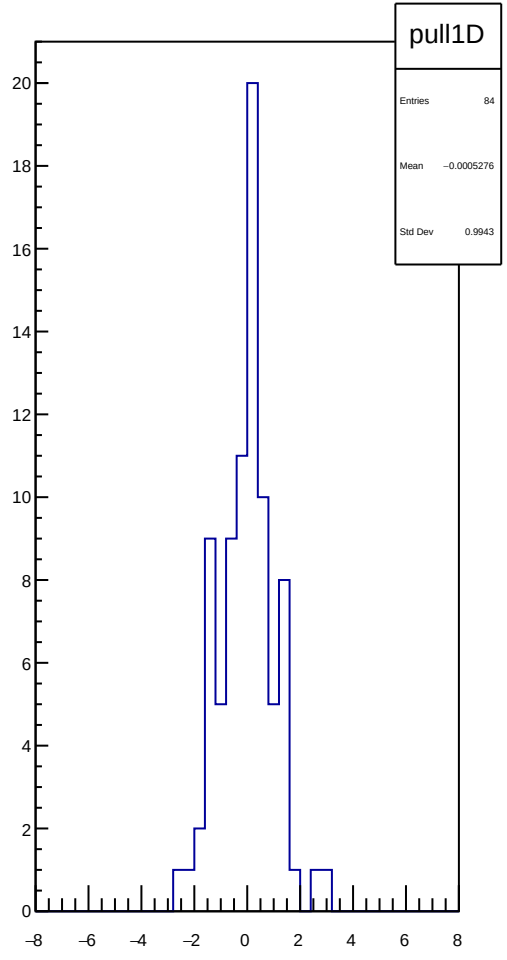

eigen_cor_asym_at1_avg_rms vs run
χ^2 / ndf 86.52 / 83
p0 1806 ± 1.416
1840
1820
1800
1780
1760

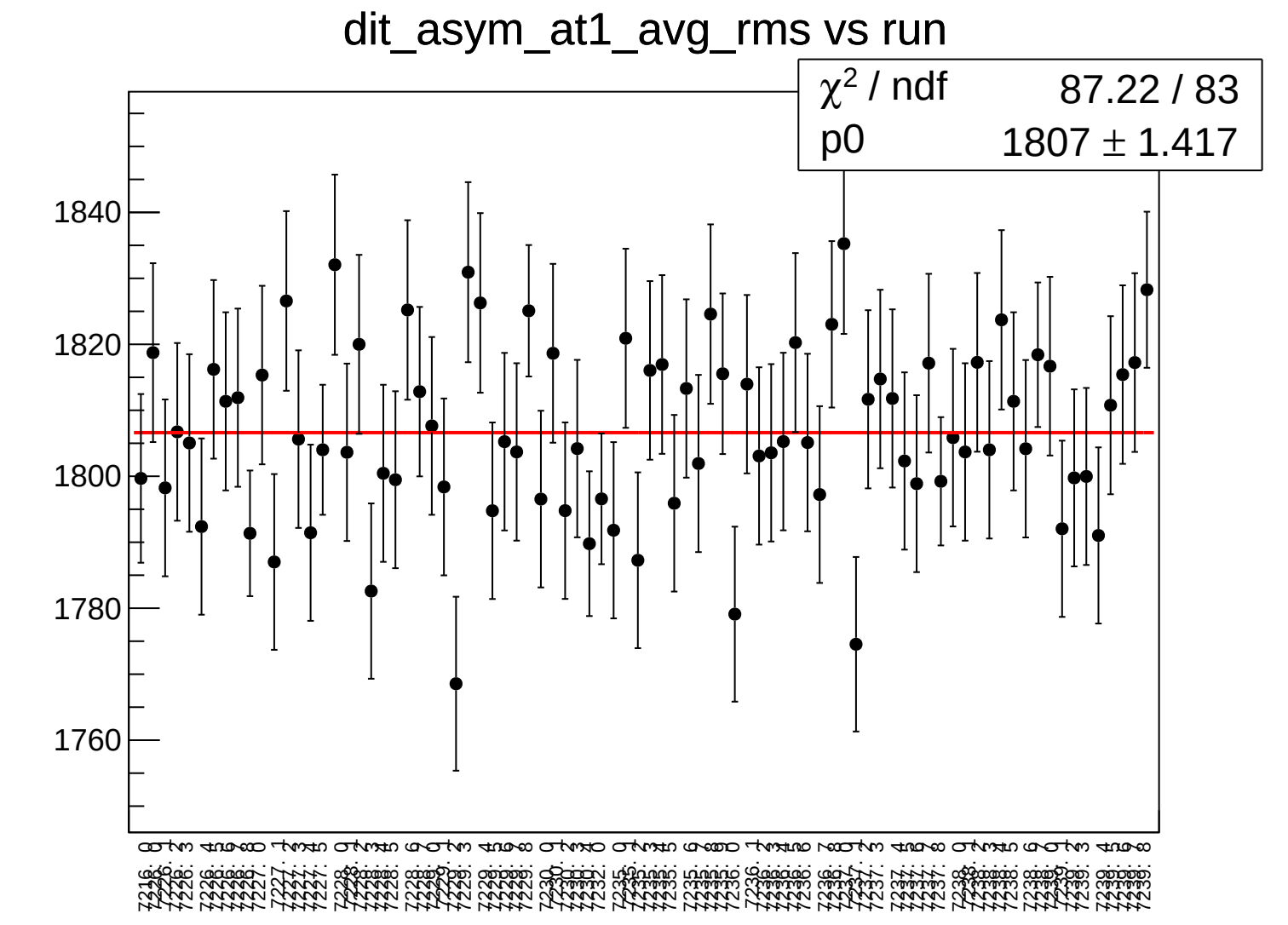

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 101.2 / 83
p0 271.3 ± 591
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −380.6
Std Dev 0
2
1
0
−1
−2
−3

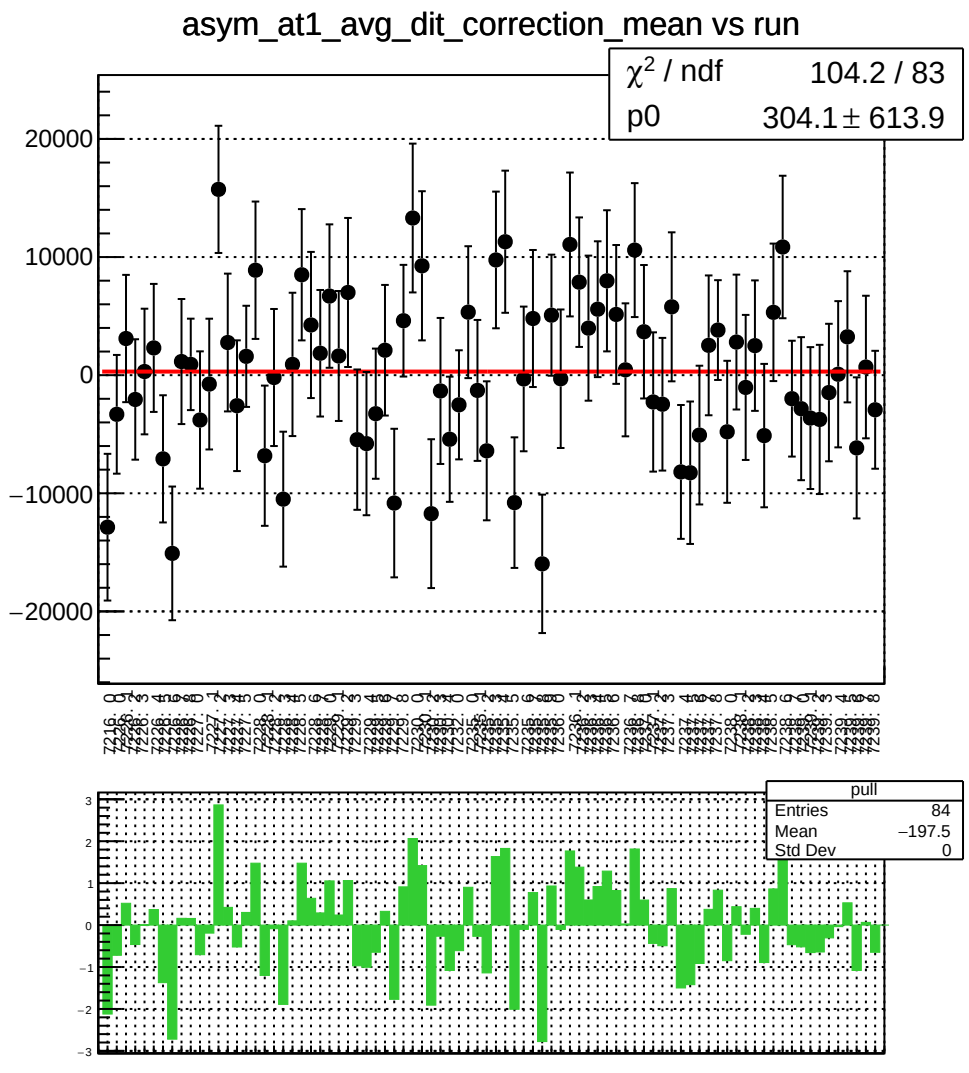

pull1D
Entries 84
Mean −0.002659
Std Dev 1.098
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

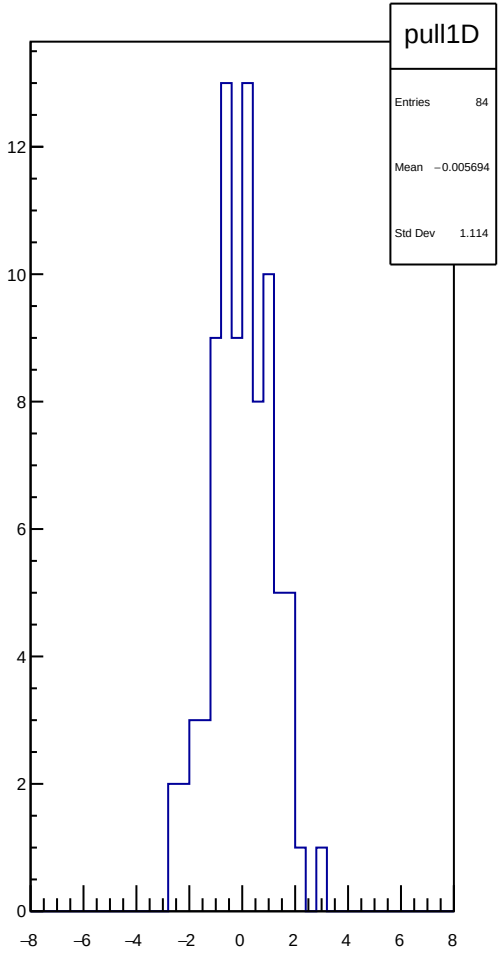

asym_at1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.038e+04 / 83
p0 531.3 ± 0.4179
650
600
550
500
450

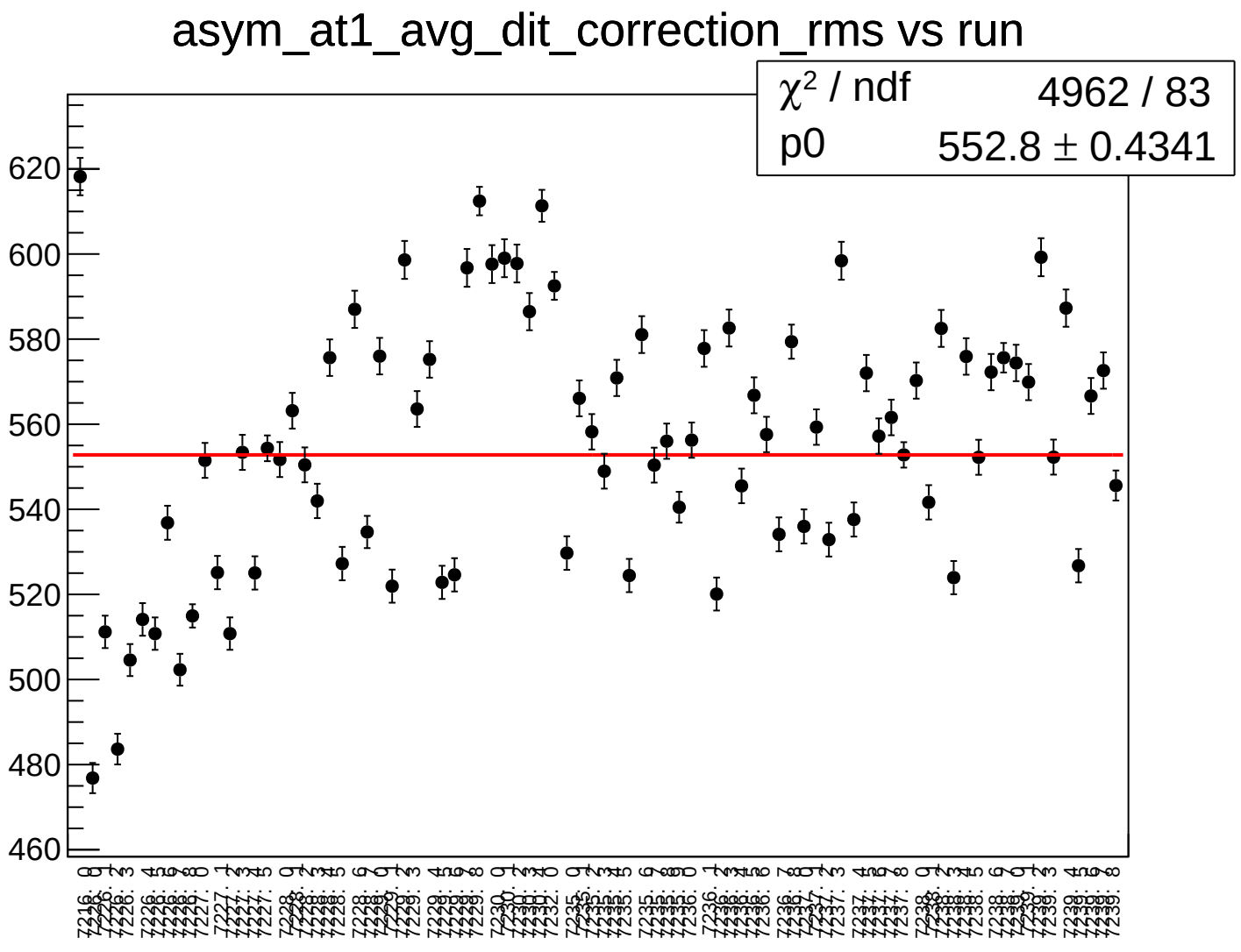

dit_asym_at1_avg_mean vs run
χ² / ndf 83.05 / 83
p0 −2551 ± 2003
pull
Entries 84
Mean 6347
Std Dev 0

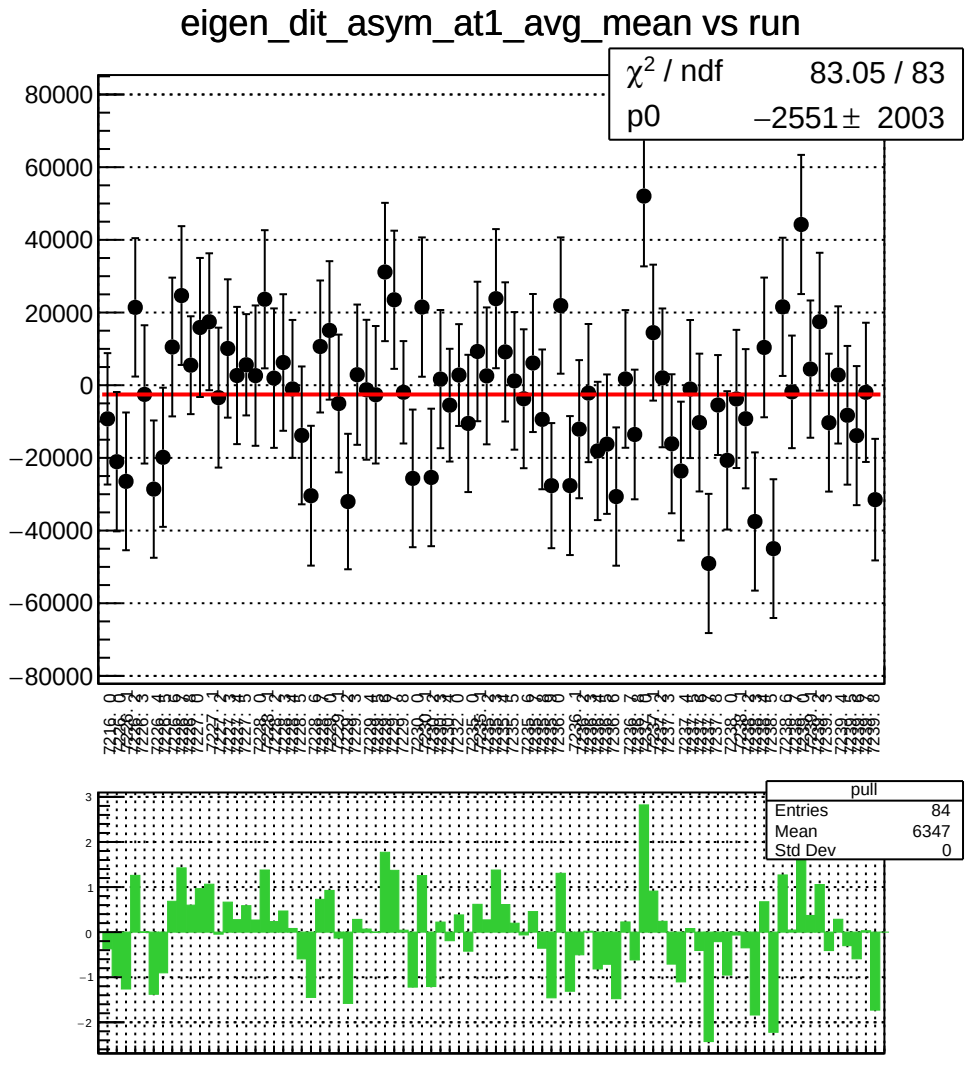

pull1D
Entries 84
Mean −0.0005276
Std Dev 0.9943

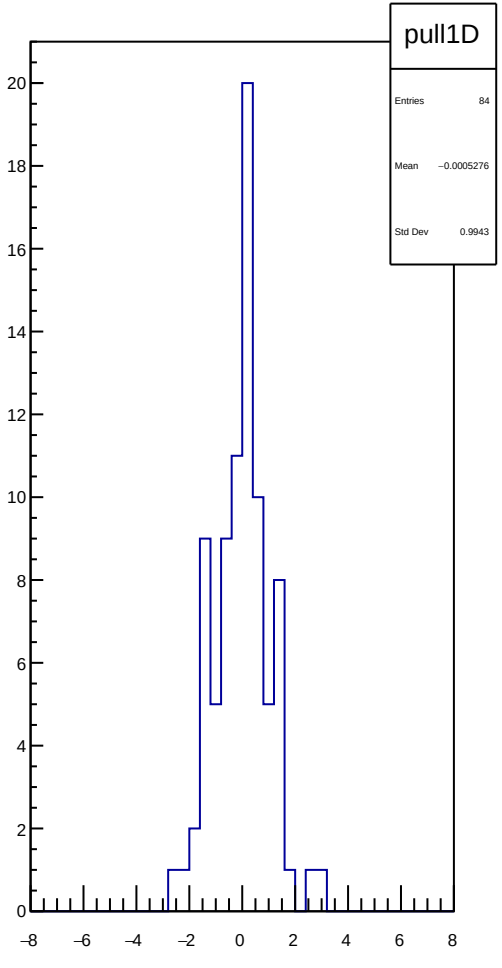

dit_asym_at1_avg_rms vs run
χ^2 / ndf 87.22 / 83
p0 1807 ± 1.417
1840
1820
1800
1780
1760

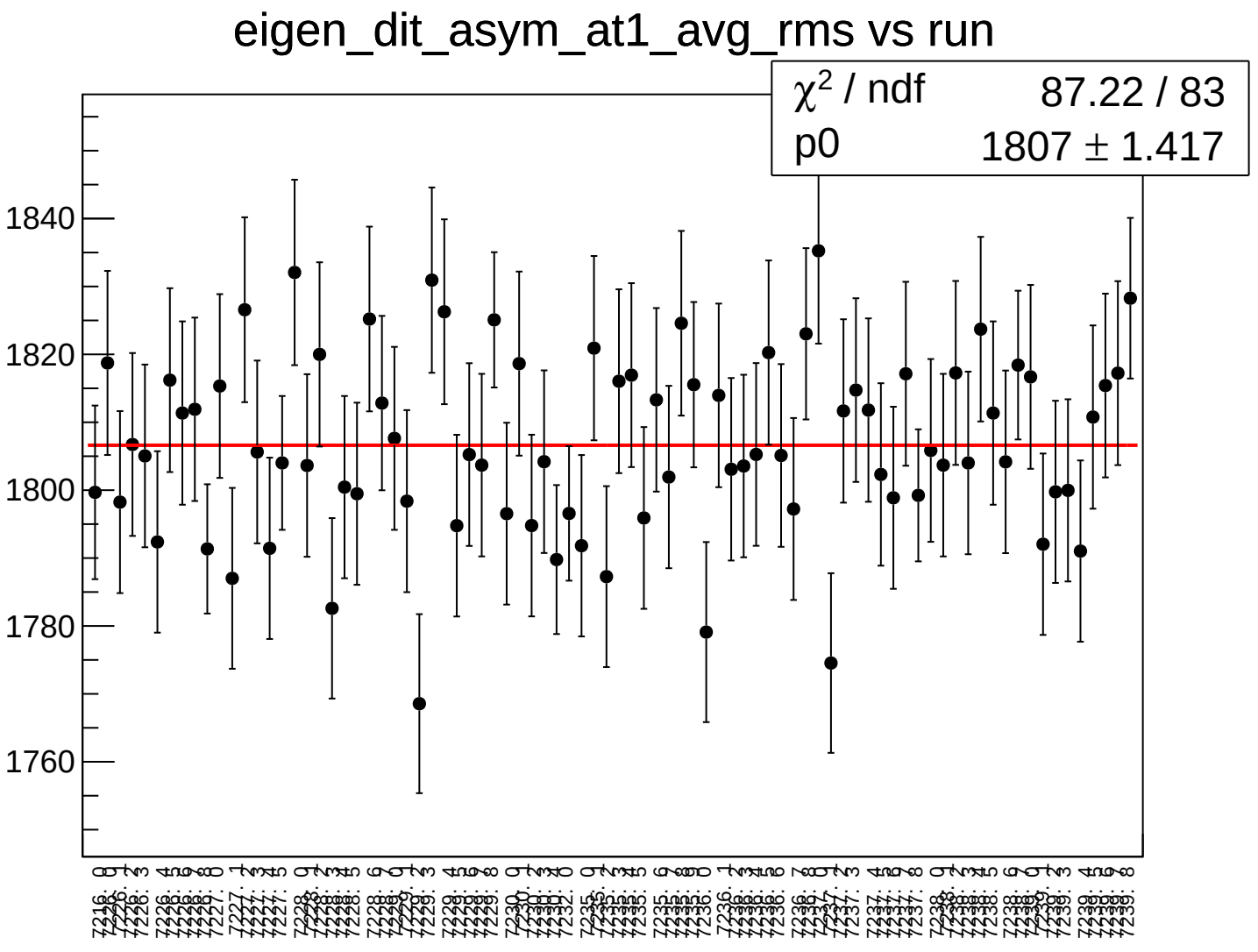

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 104.2 / 83
p0 304.1 ± 613.9
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −197.5
Std Dev 0
3
2
1
0
−1
−2
−3

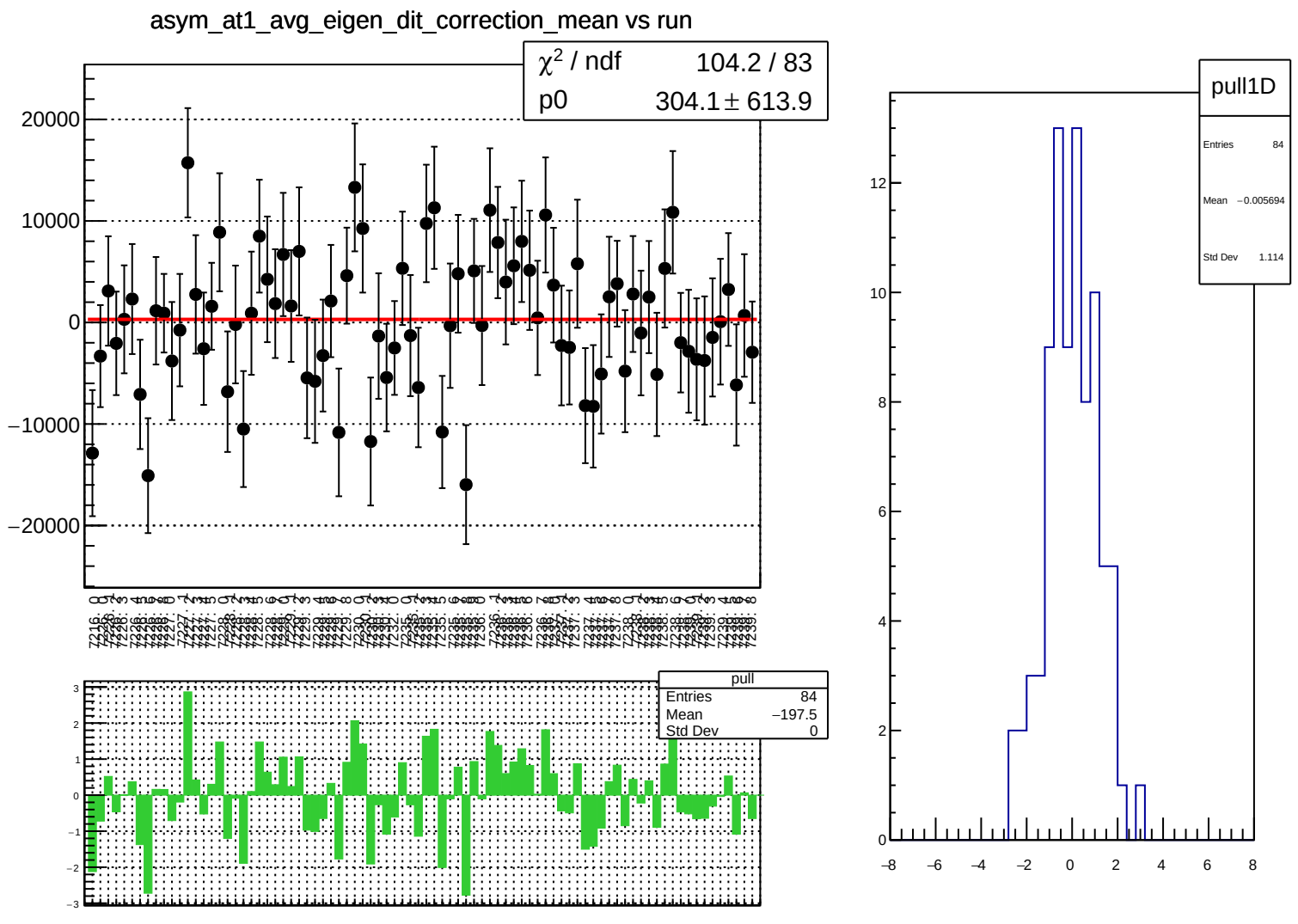

pull1D
Entries 84
Mean −0.005694
Std Dev 1.114
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

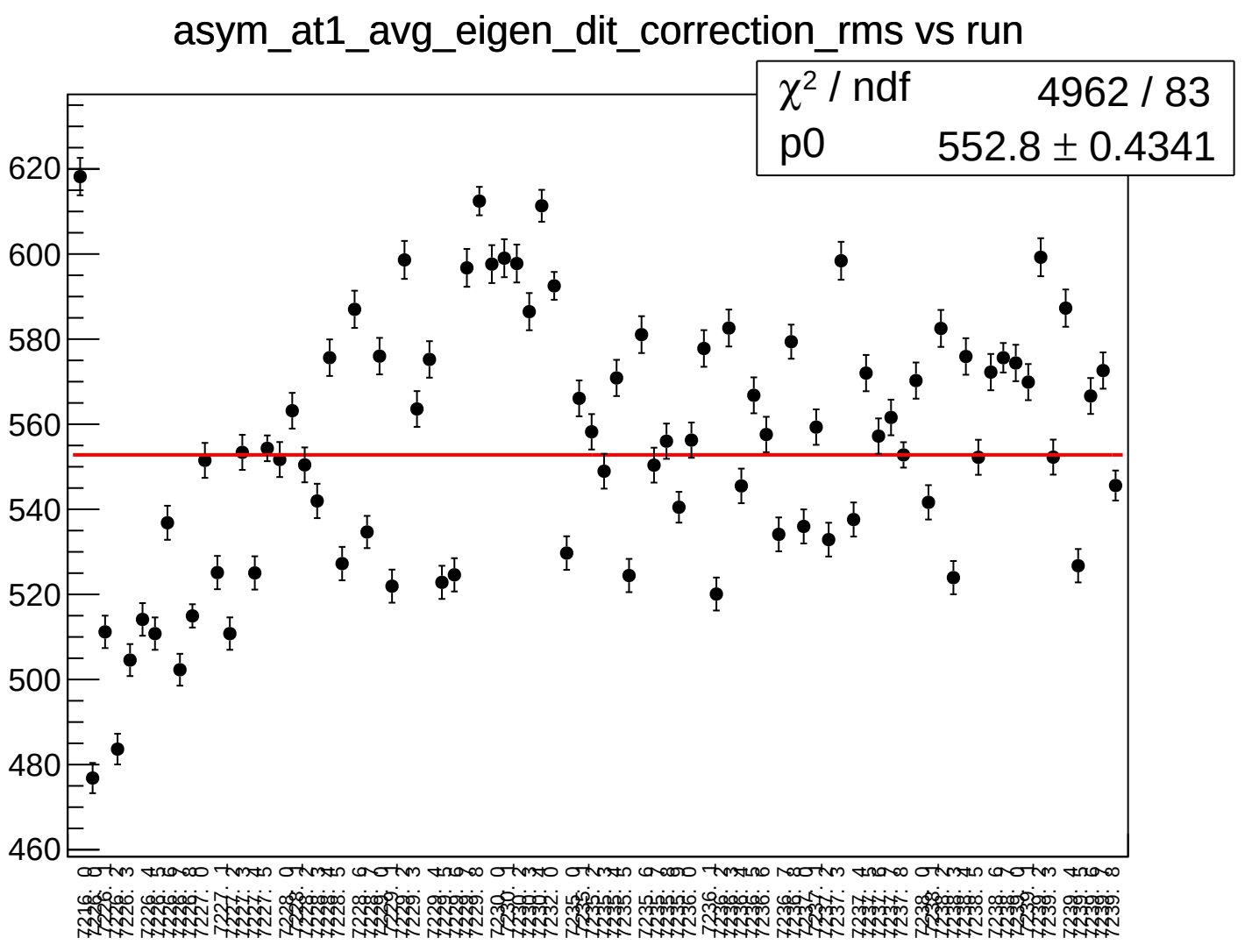

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 4962 / 83
p0 552.8 ± 0.4341
620
600
580
560
540
520
500
480
460

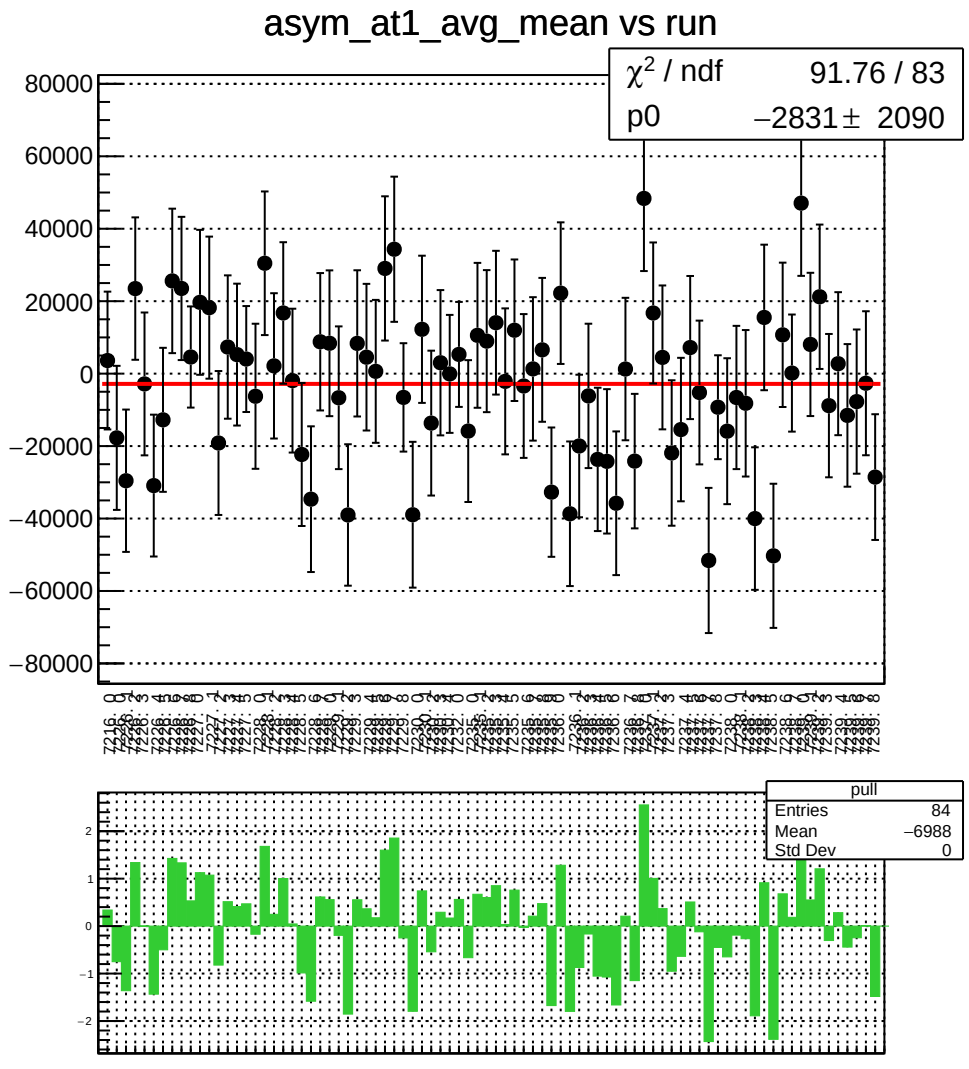

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 83.05 / 83
p0 −2551 ± 2003
pull
Entries 84
Mean 6347
Std Dev 0

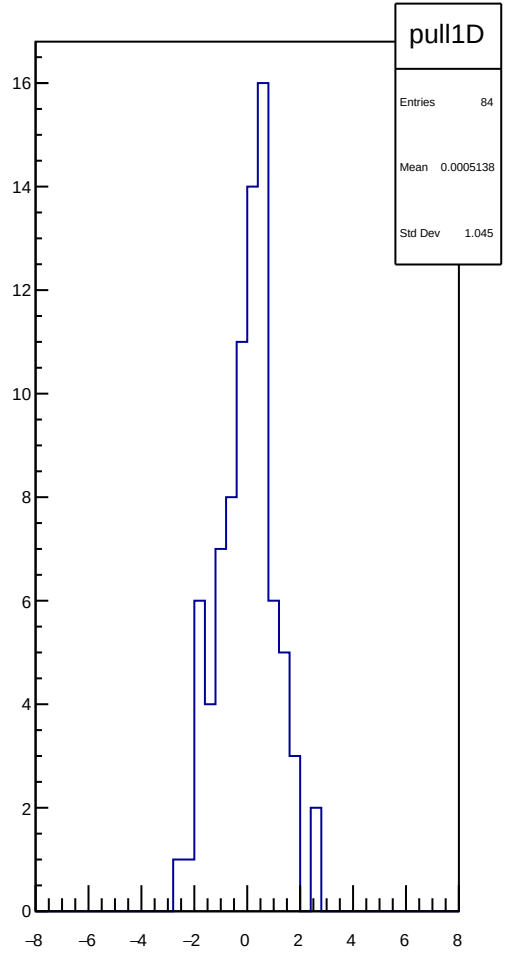

pull1D
Entries 84
Mean −0.0005276
Std Dev 0.9943

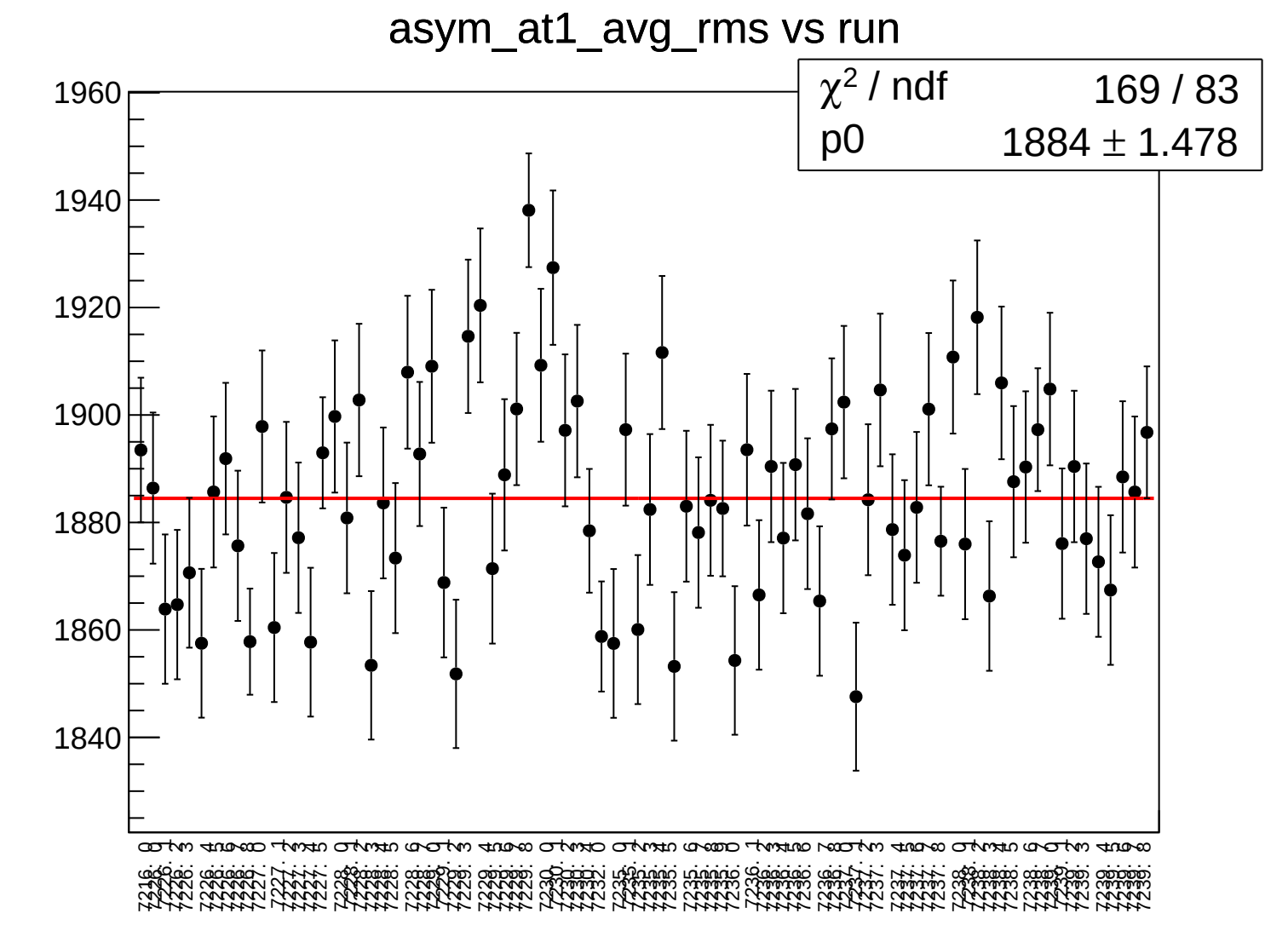

eigen_dit_asym_at1_avg_rms vs run
χ^2 / ndf 87.22 / 83
p0 1807 ± 1.417
1840
1820
1800
1780
1760

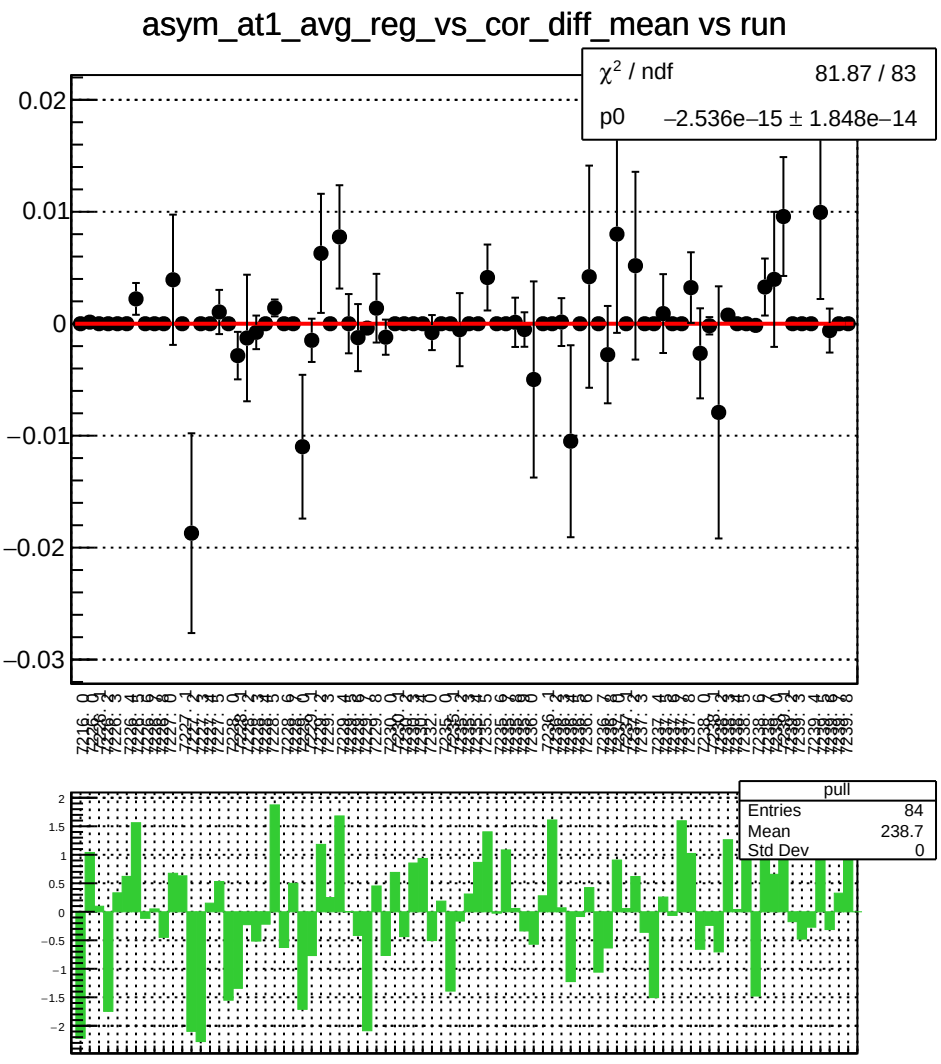

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 104.2 / 83
p0 304.1 ± 613.9
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −197.5
Std Dev 0
pull1D
Entries 84
Mean −0.005694
Std Dev 1.114
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

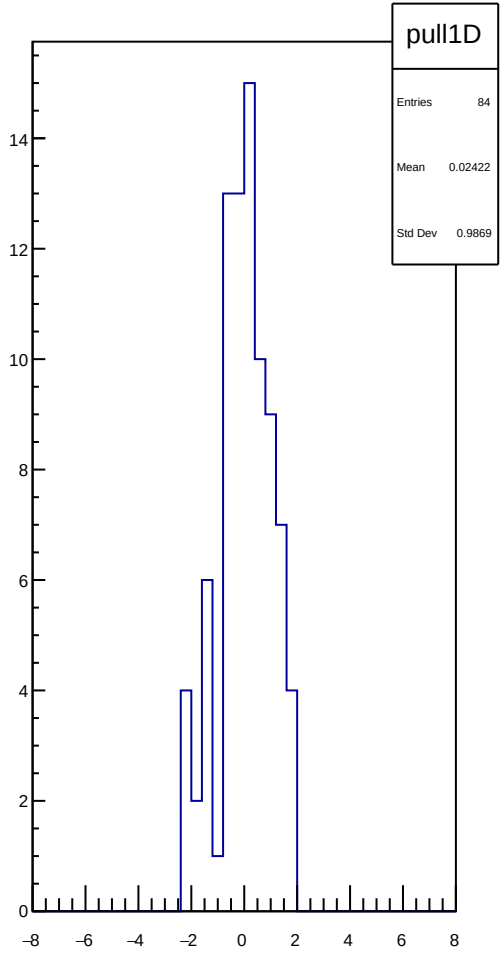

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 4962 / 83
p0 552.8 ± 0.4341
620
600
580
560
540
520
500
480
460

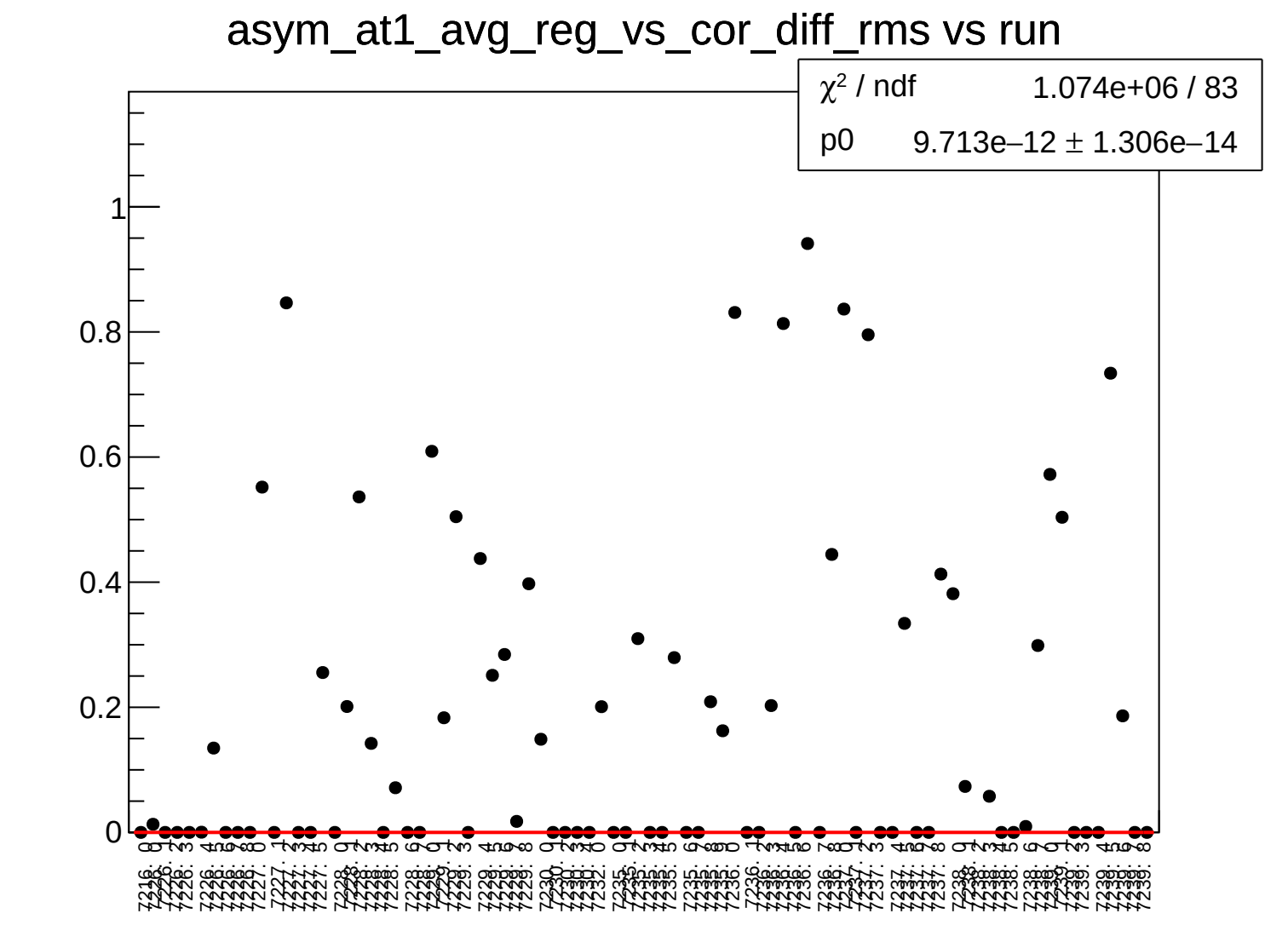

asym_at1_avg_mean vs run
χ² / ndf 91.76 / 83
p0 −2831 ± 2090
pull
Entries 84
Mean −6988
Std Dev 0

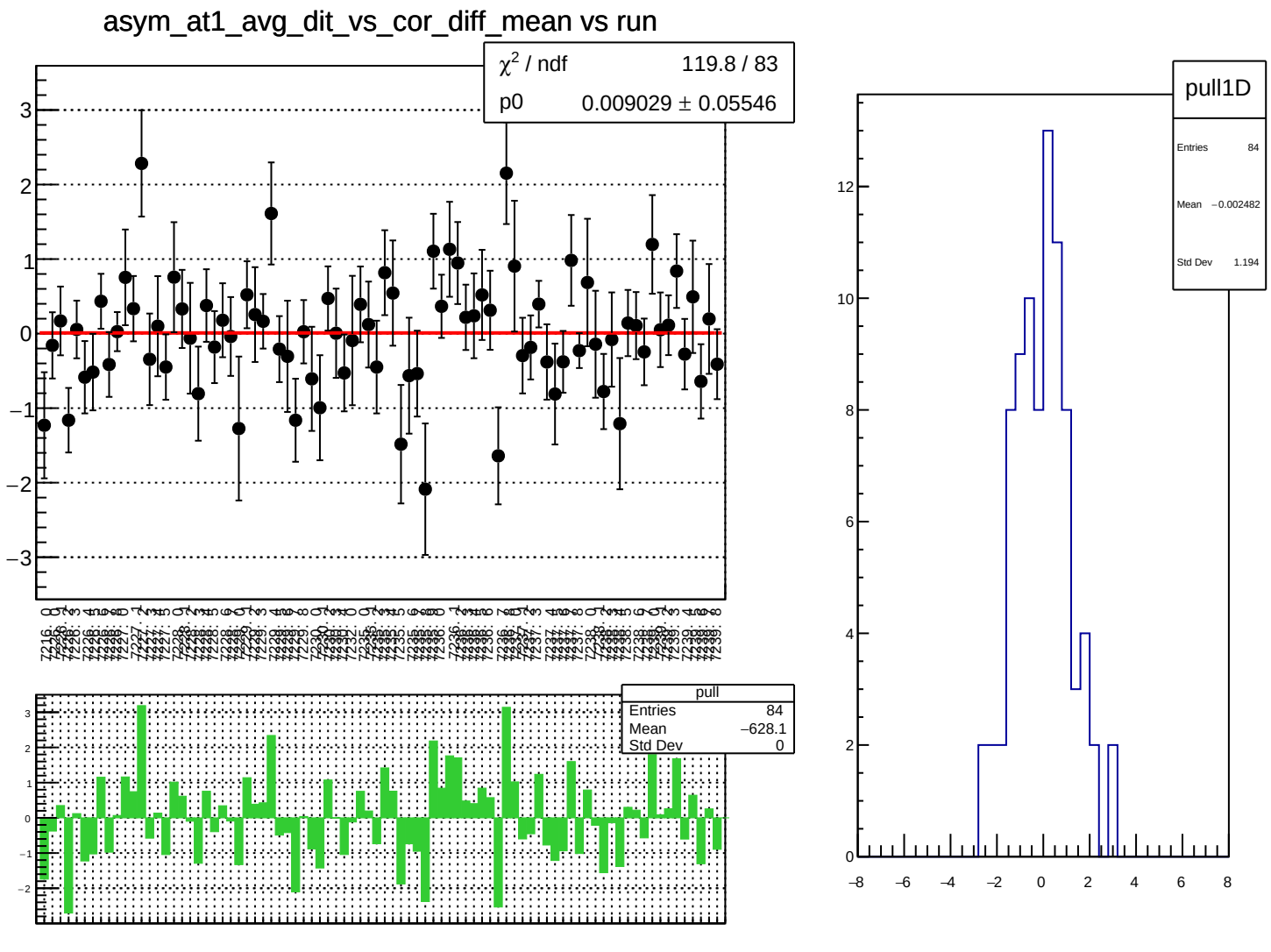

pull1D
Entries 84
Mean 0.0005138
Std Dev 1.045

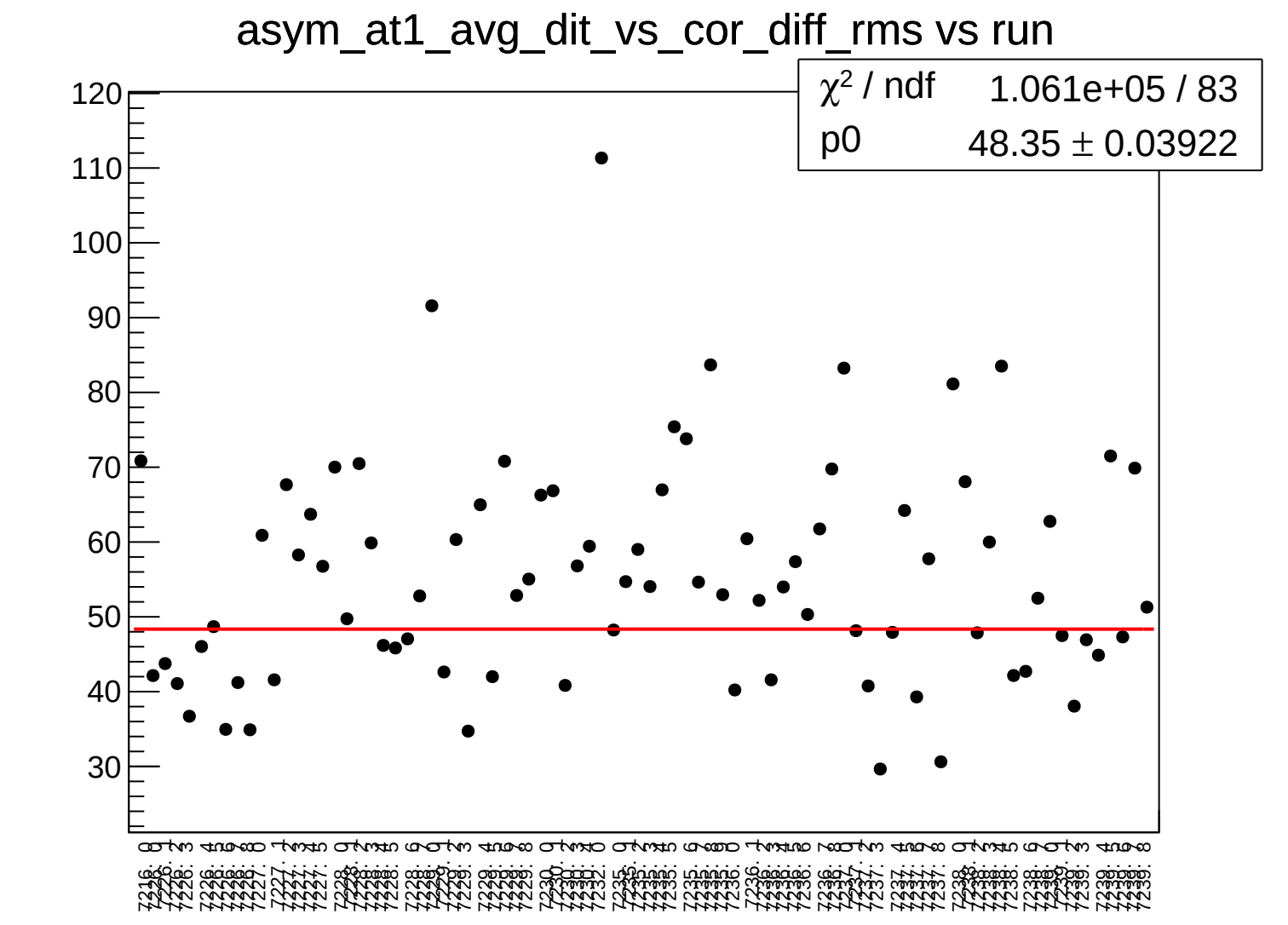

asym_at1_avg_rms vs run
χ² / ndf 169 / 83
p0 1884 ± 1.478
1960
1940
1920
1900
1880
1860
1840

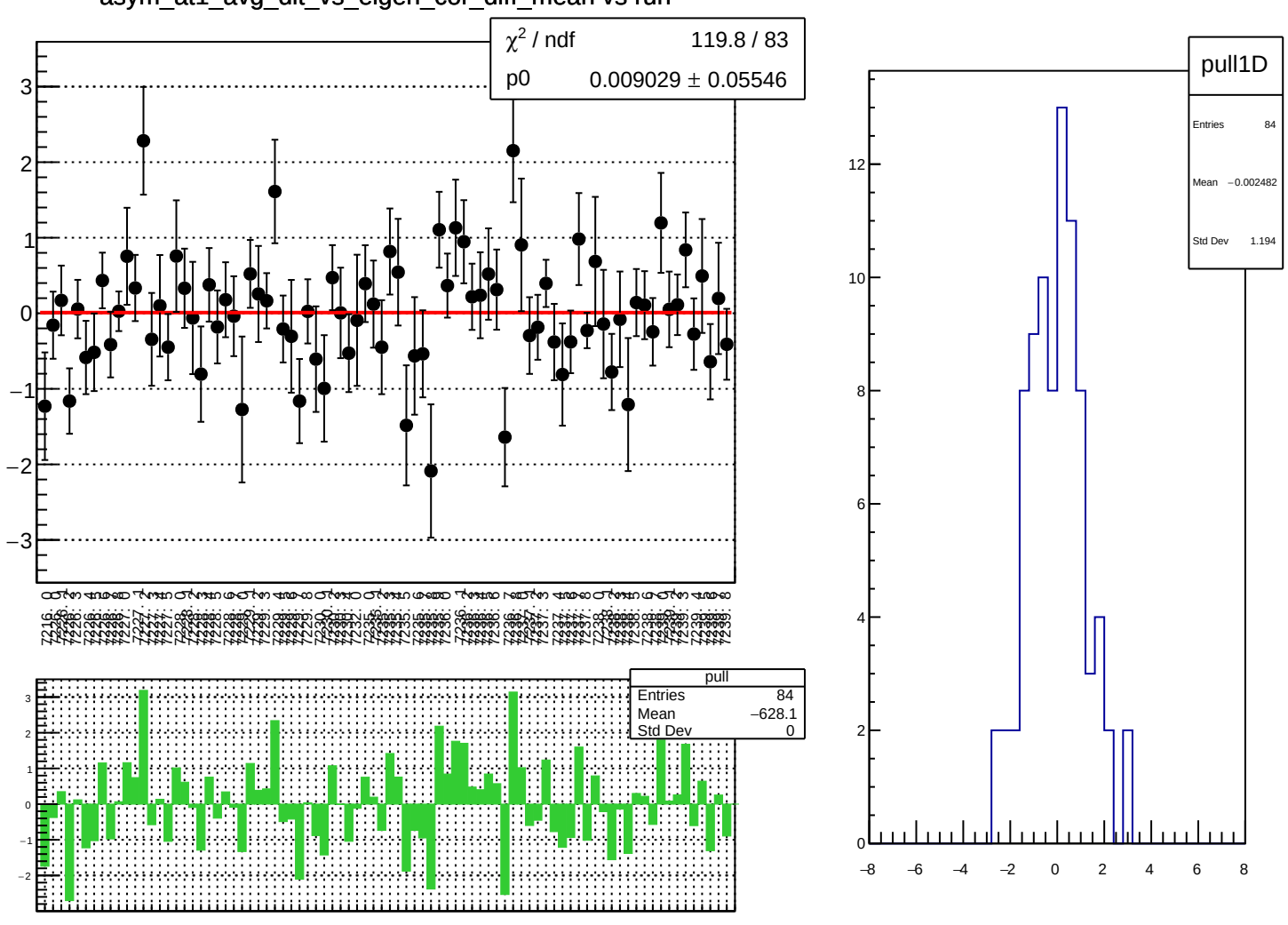

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 81.87 / 83
p0 −2.536e−15 ± 1.848e−14
pull
Entries 84
Mean 238.7
Std Dev 0

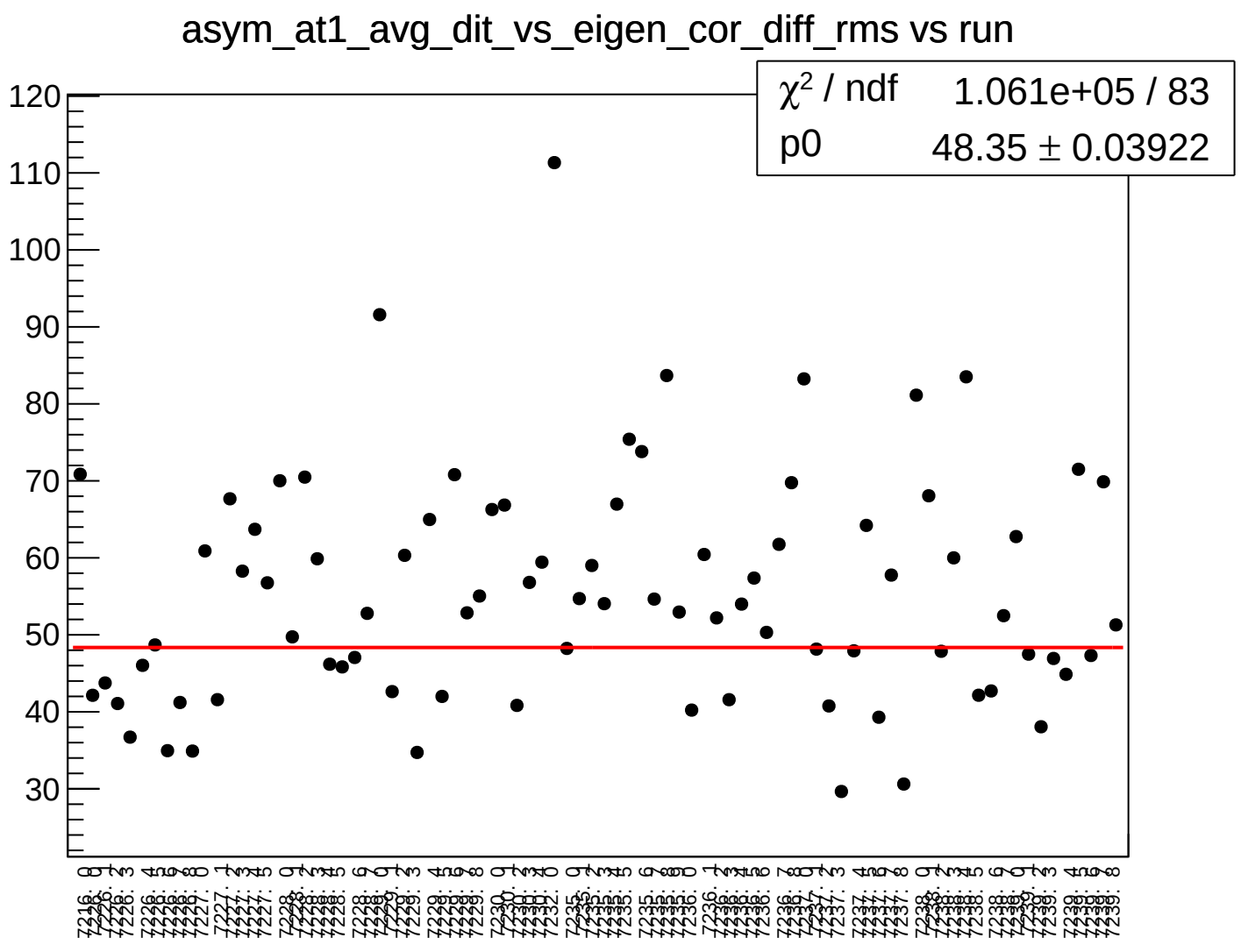

pull1D
Entries 84
Mean 0.02422
Std Dev 0.9869

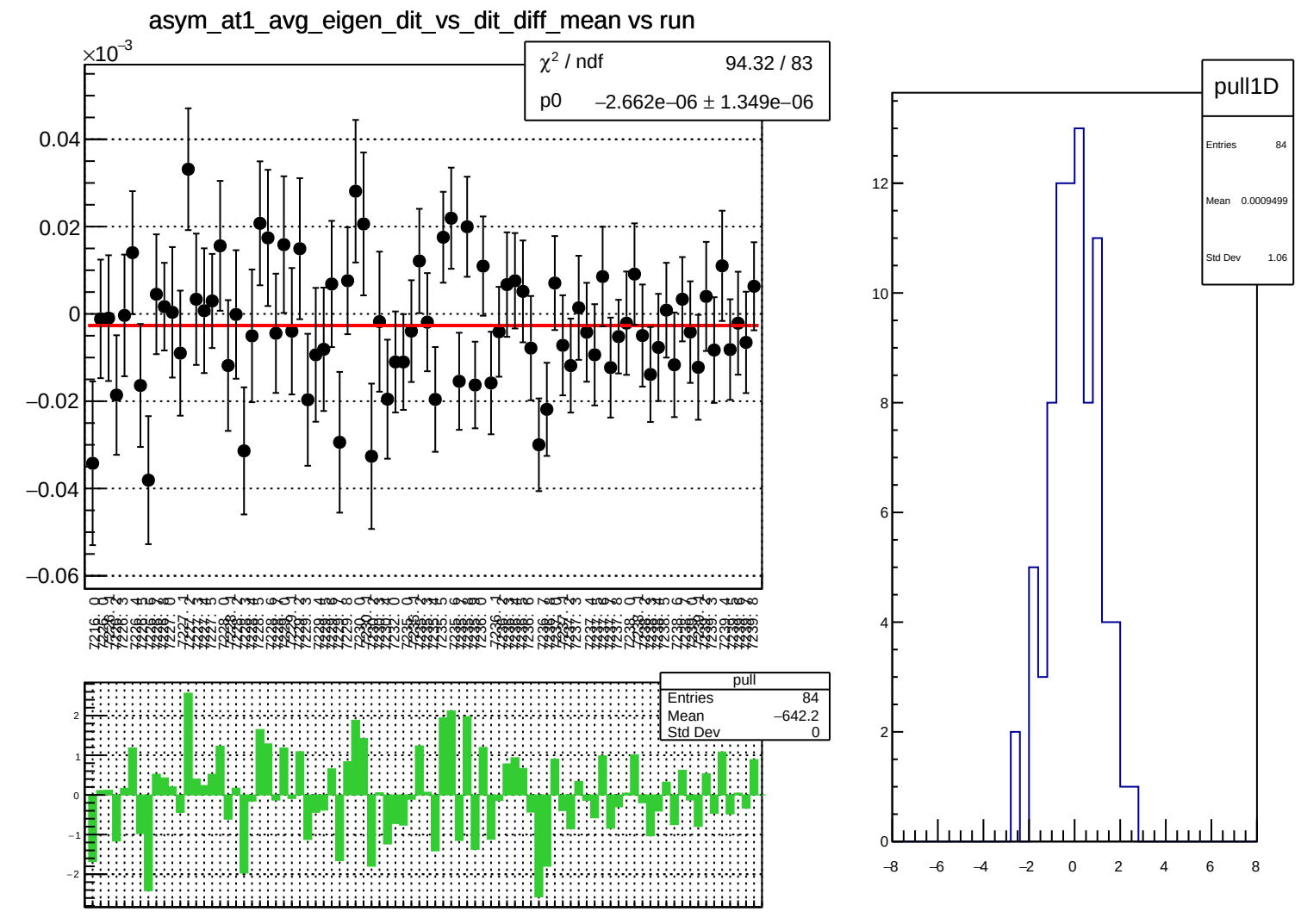

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.074e+06 / 83
p0 9.713e−12 ± 1.306e−14
1
0.8
0.6
0.4
0.2
0

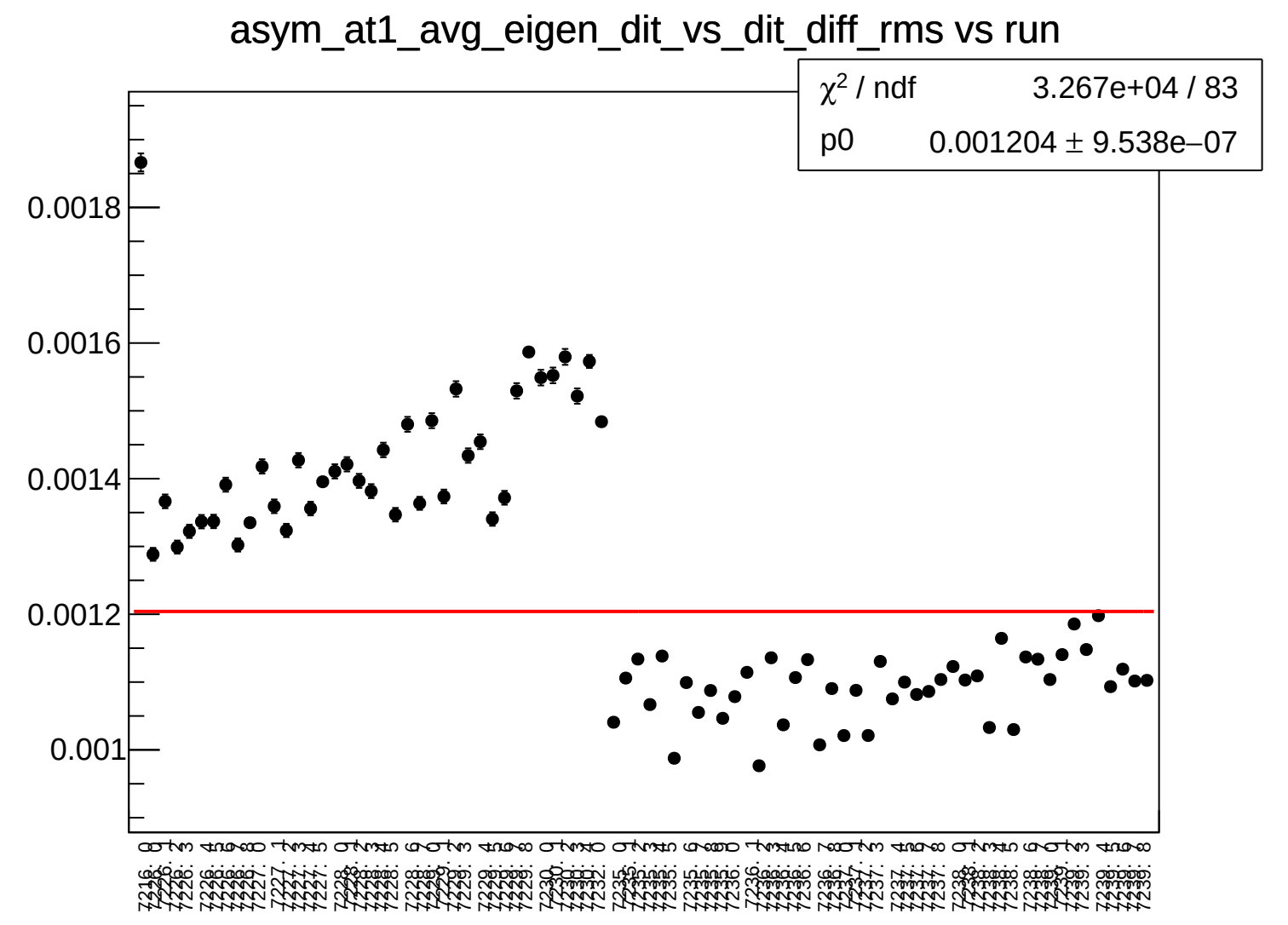

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 119.8 / 83
p0 0.009029 ± 0.05546
pull
Entries 84
Mean −628.1
Std Dev 0
pull1D
Entries 84
Mean −0.002482
Std Dev 1.194

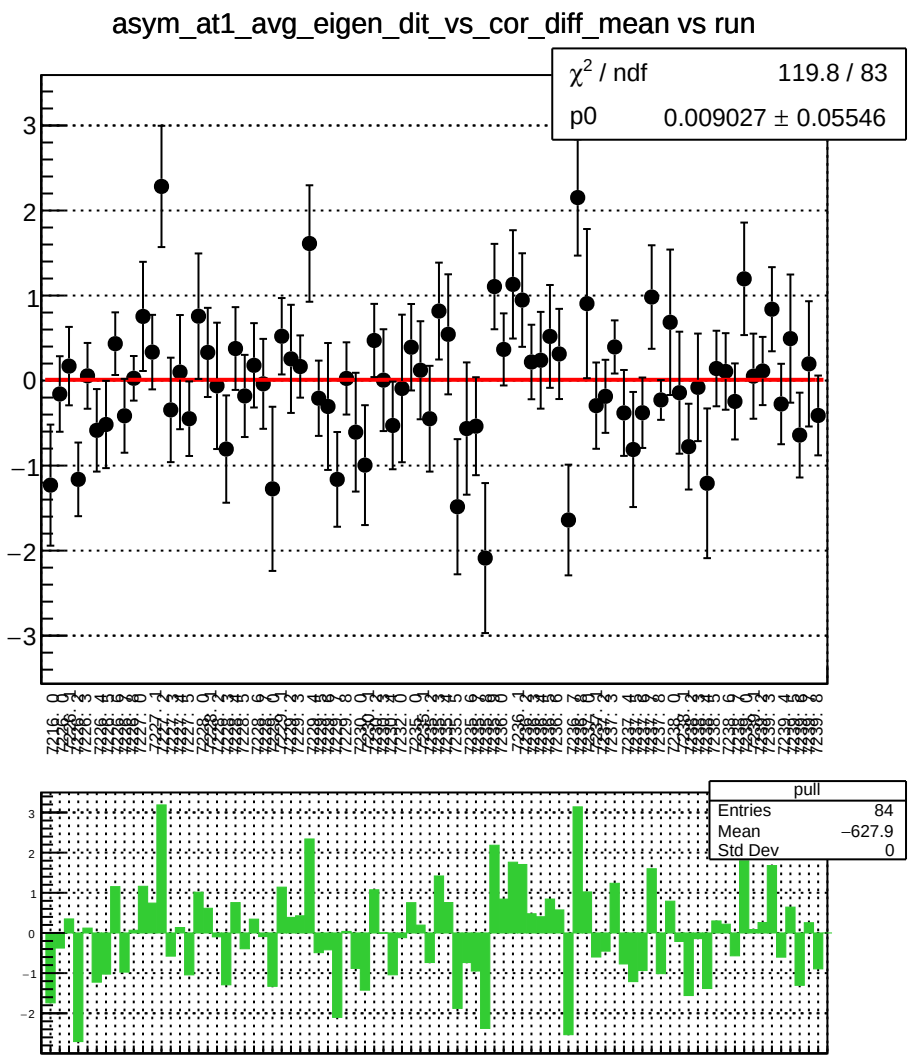

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.061e+05 / 83
p0 48.35 ± 0.03922
120
110
100
90
80
70
60
50
40
30

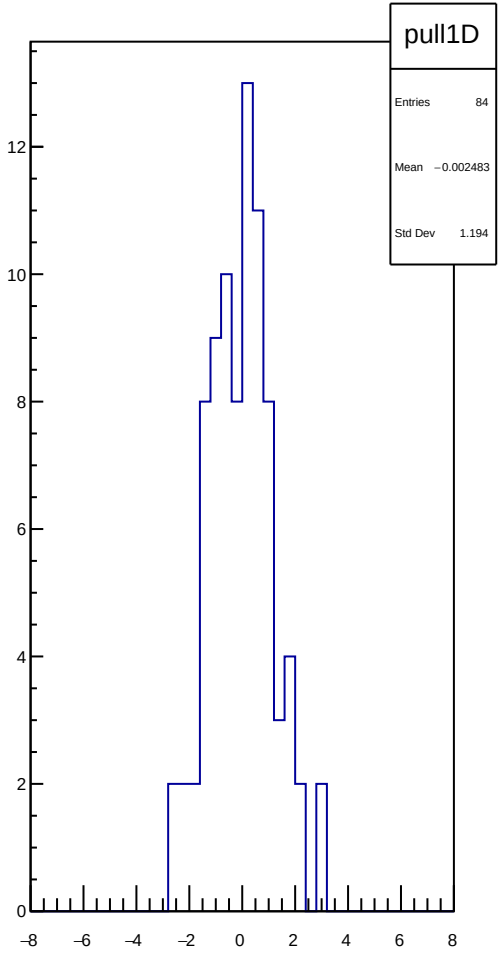

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 119.8 / 83
p0 0.009029 ± 0.05546
pull
Entries 84
Mean −628.1
Std Dev 0
pull1D
Entries 84
Mean −0.002482
Std Dev 1.194

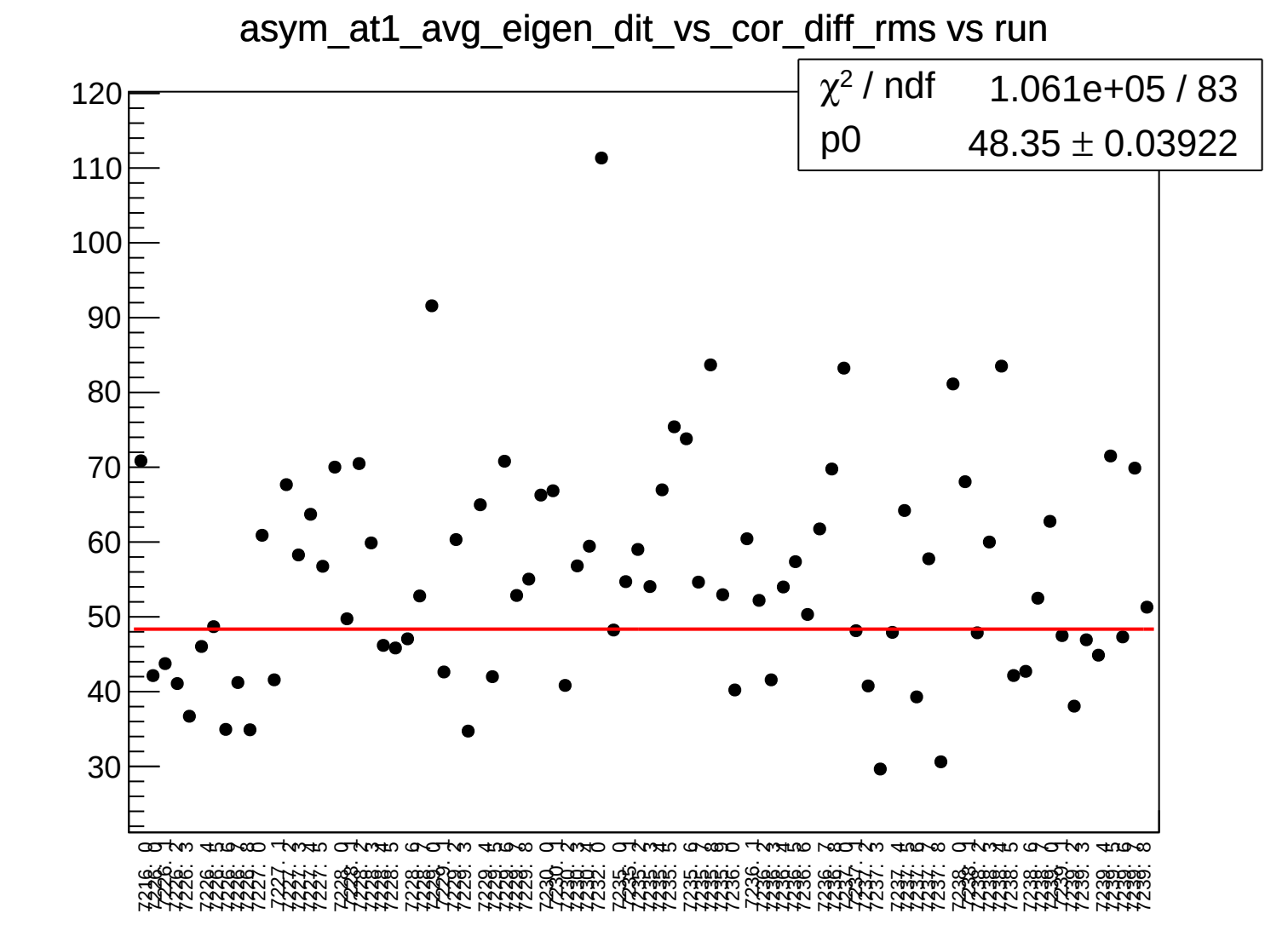

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.061e+05 / 83
p0 48.35 ± 0.03922
120
110
100
90
80
70
60
50
40
30

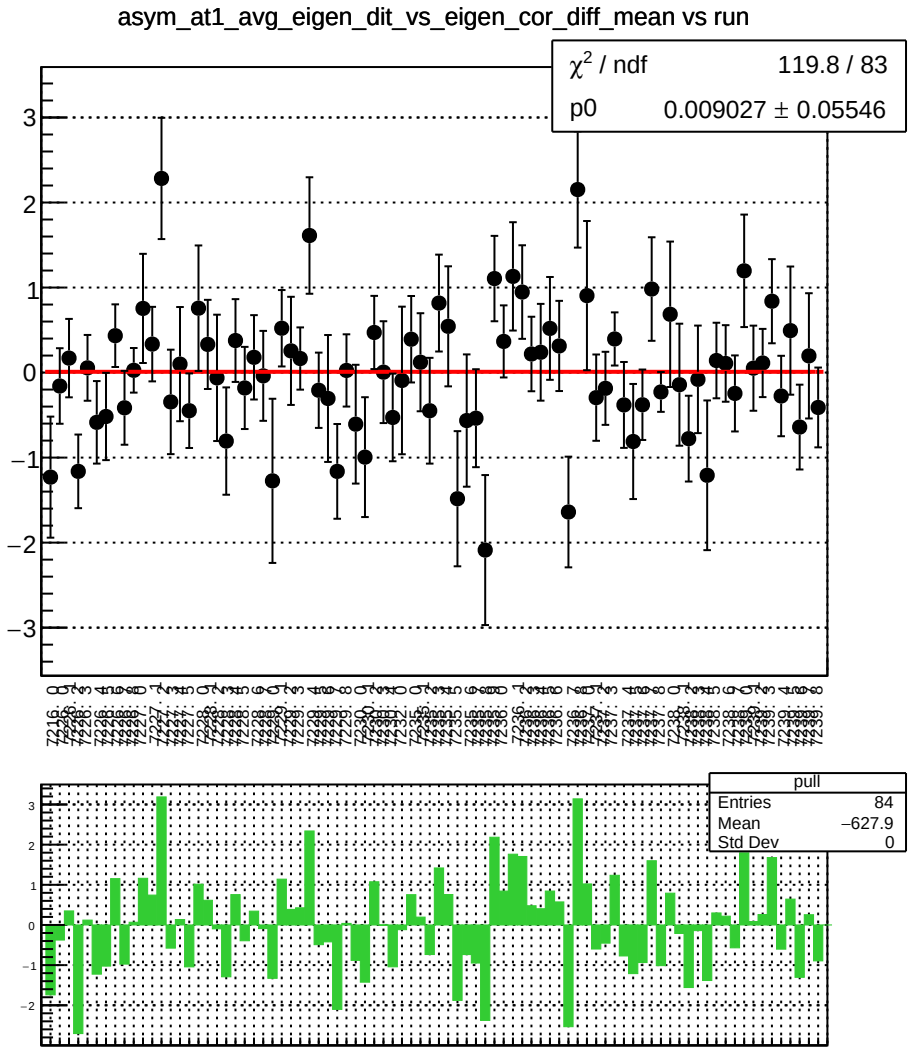

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.32 / 83
p0 −2.662e−06 ± 1.349e−06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 84
Mean −642.2
Std Dev 0
pull1D
Entries 84
Mean 0.0009499
Std Dev 1.06
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

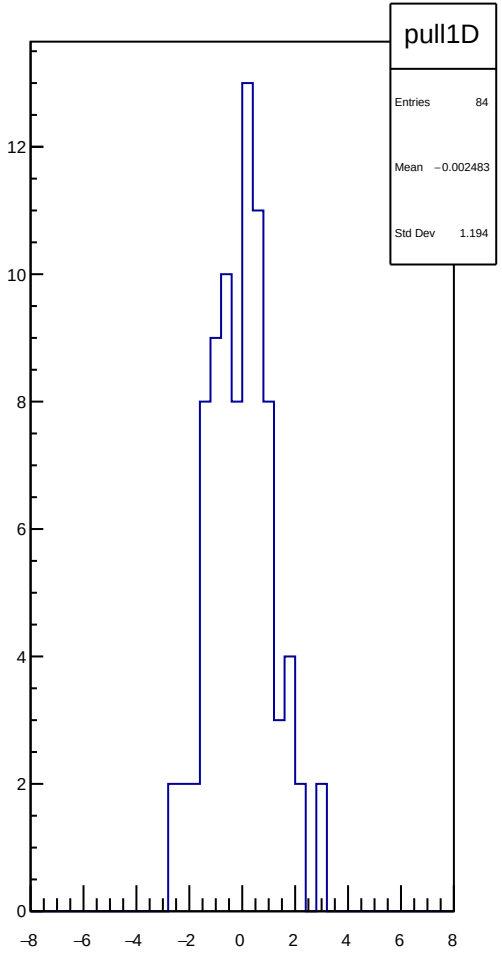

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.267e+04 / 83
p0 0.001204 ± 9.538e−07
0.0018
0.0016
0.0014
0.0012
0.001

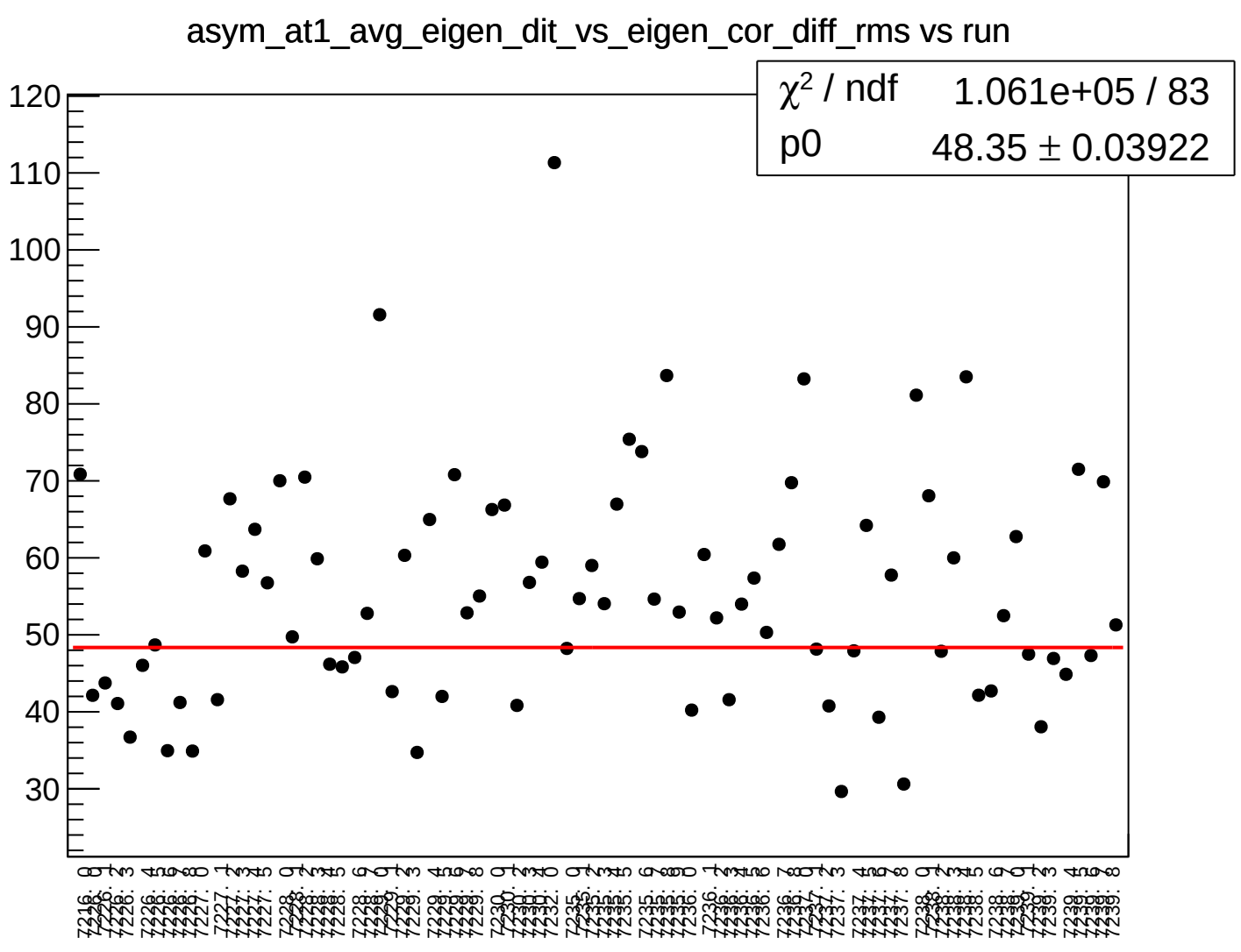

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 119.8 / 83
p0 0.009027 ± 0.05546
pull
Entries 84
Mean −627.9
Std Dev 0

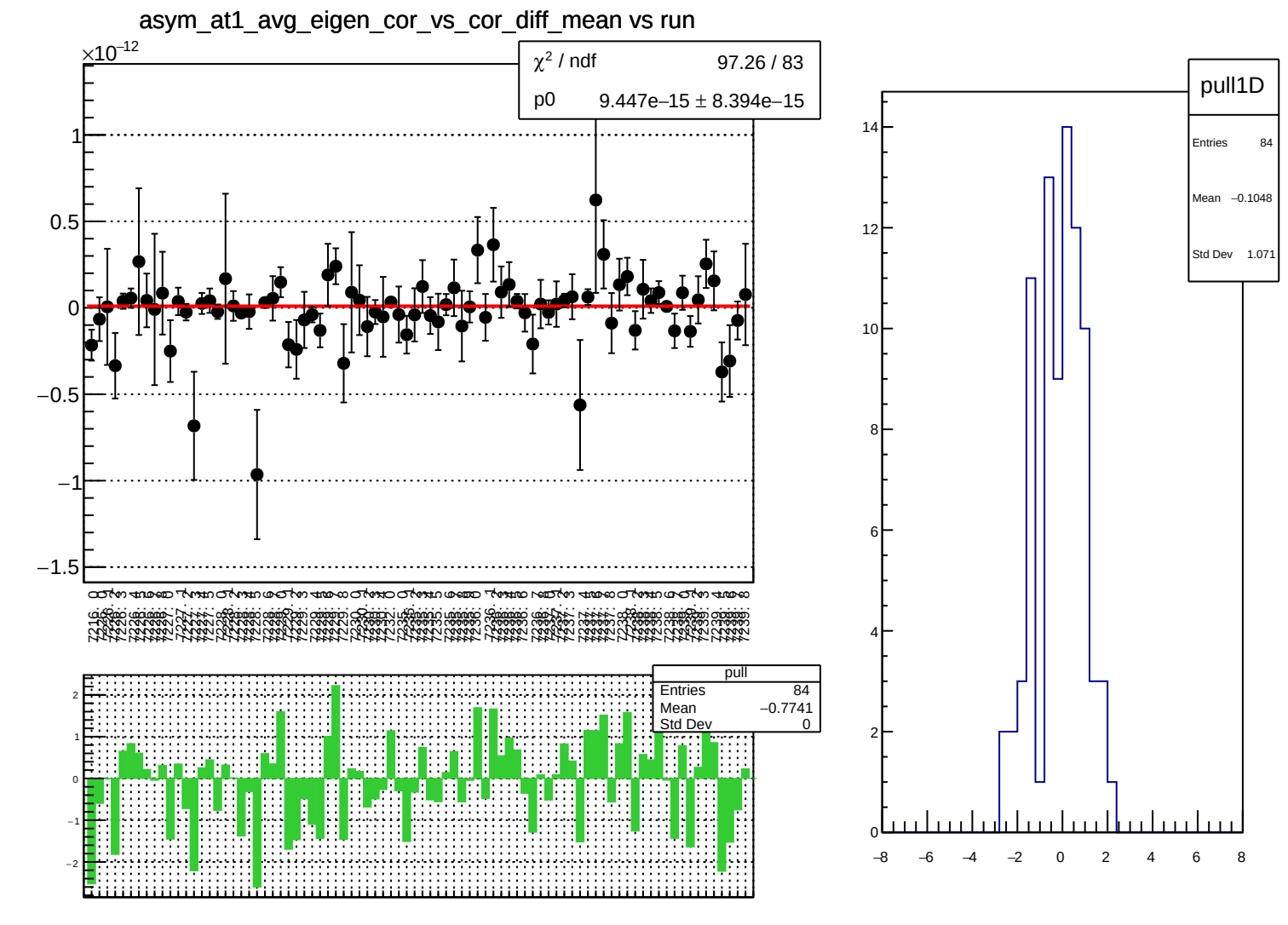

pull1D
Entries 84
Mean −0.002483
Std Dev 1.194

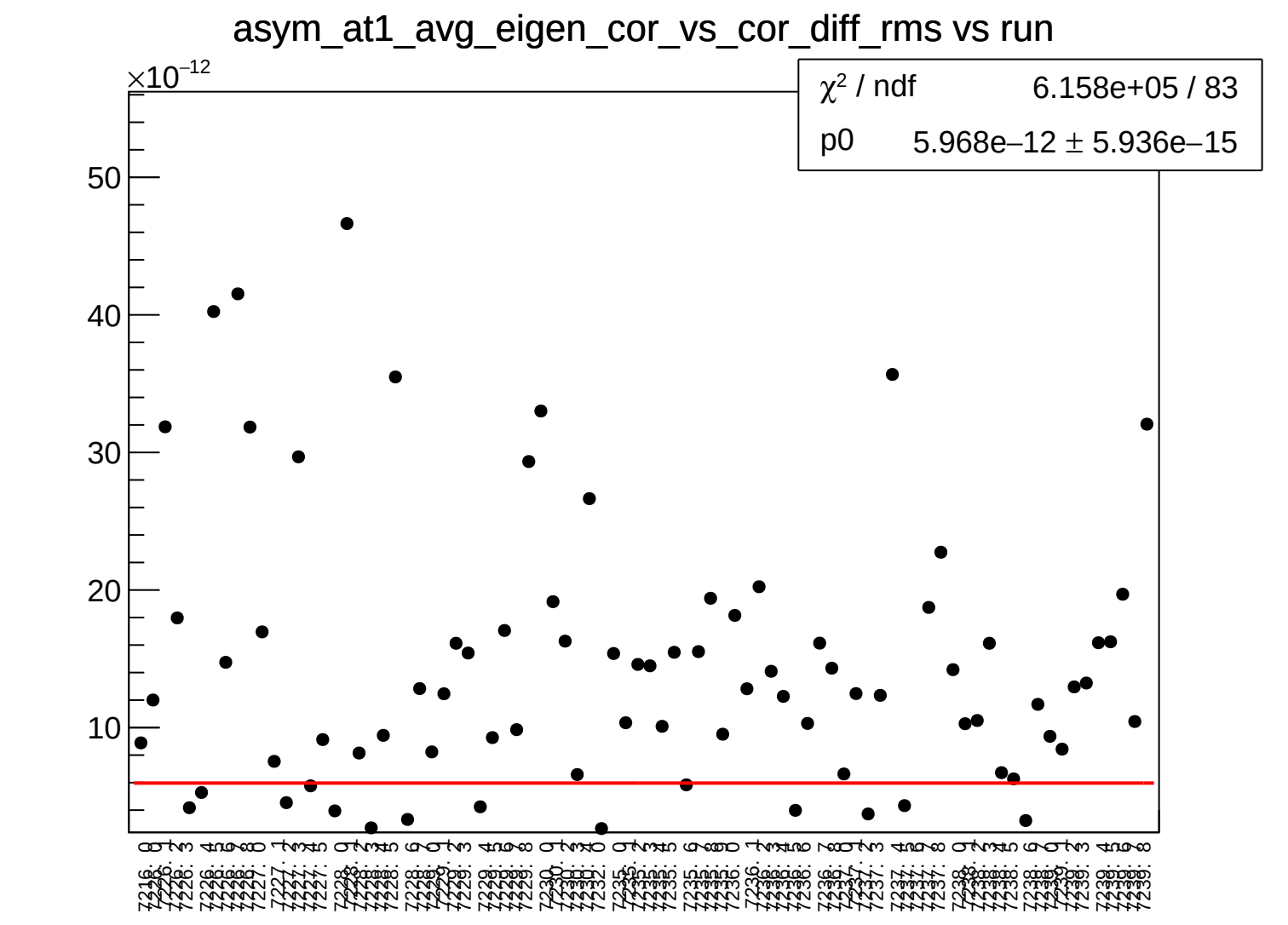

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.061e+05 / 83
p0 48.35 ± 0.03922
120
110
100
90
80
70
60
50
40
30

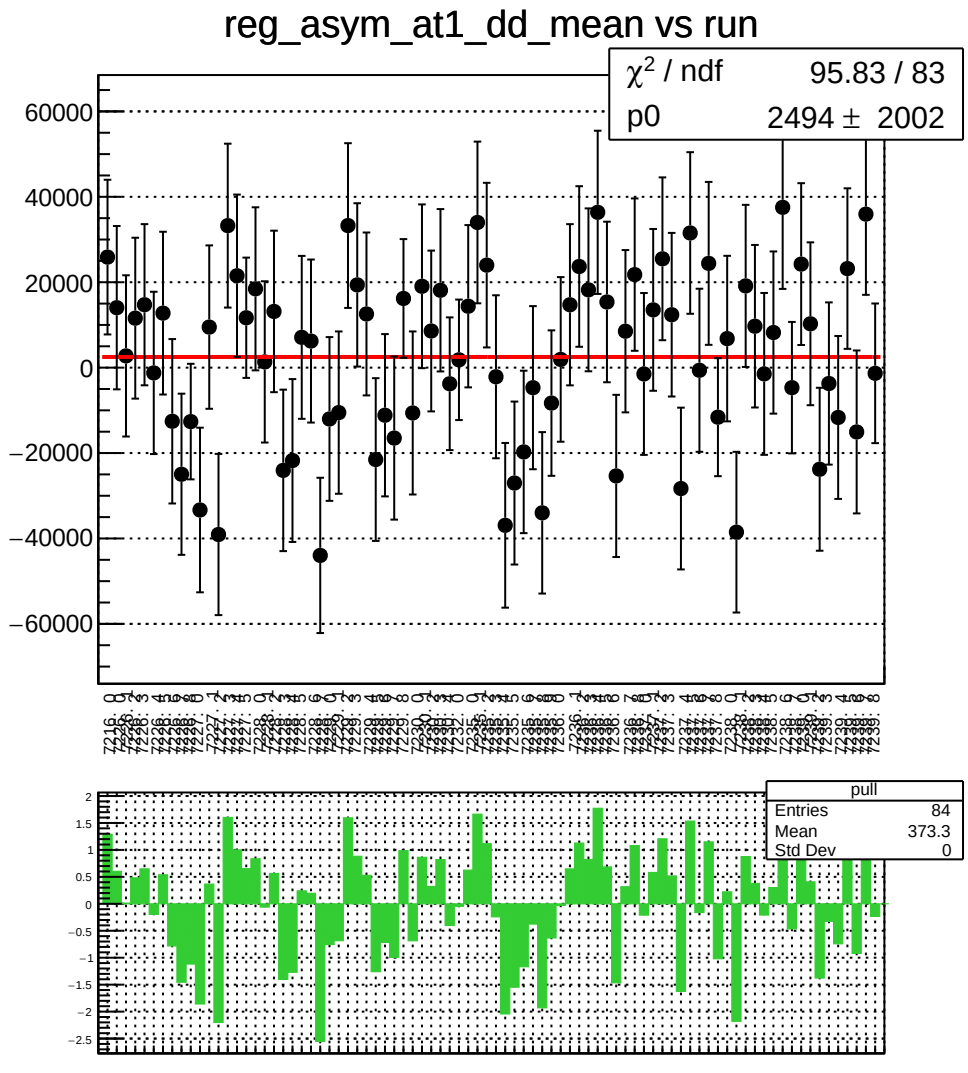

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 119.8 / 83
p0 0.009027 ± 0.05546
pull
Entries 84
Mean −627.9
Std Dev 0

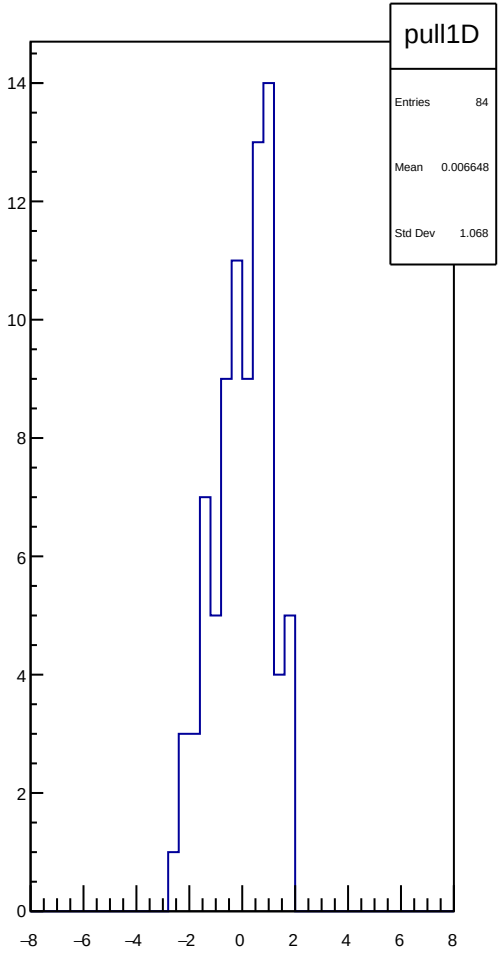

pull1D
Entries 84
Mean −0.002483
Std Dev 1.194

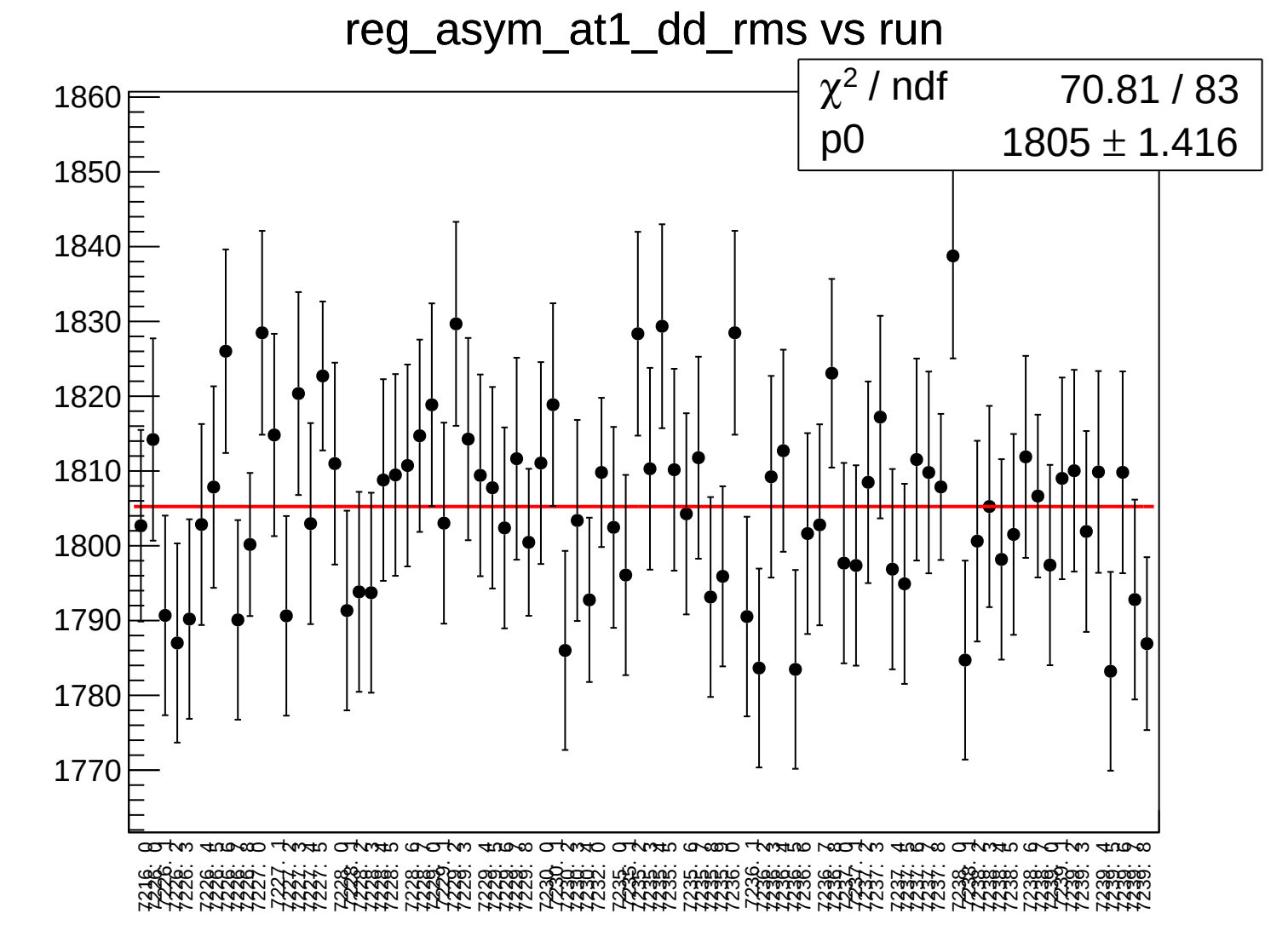

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.061e+05 / 83
p0 48.35 ± 0.03922
120
110
100
90
80
70
60
50
40
30

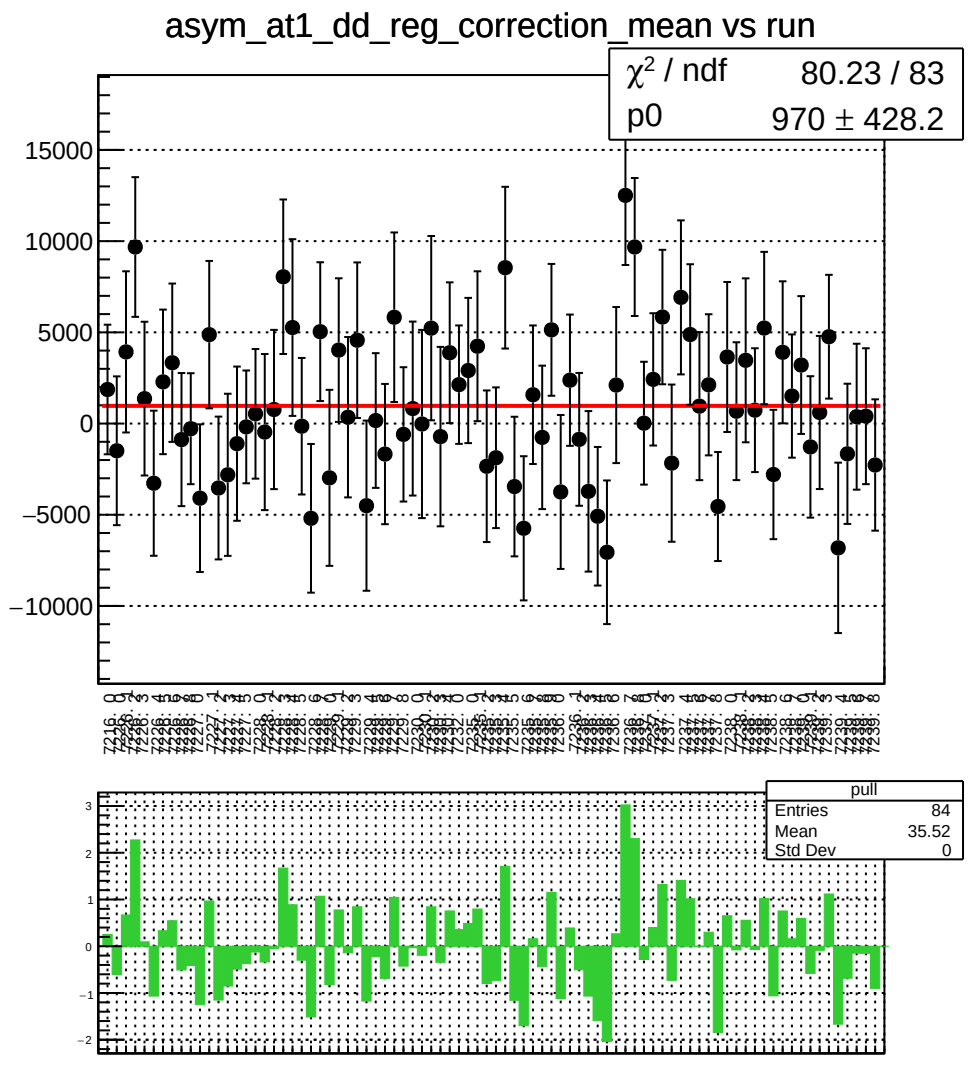

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.26 / 83
p0 9.447e−15 ± 8.394e−15
pull
Entries 84
Mean −0.7741
Std Dev 0
pull1D
Entries 84
Mean −0.1048
Std Dev 1.071

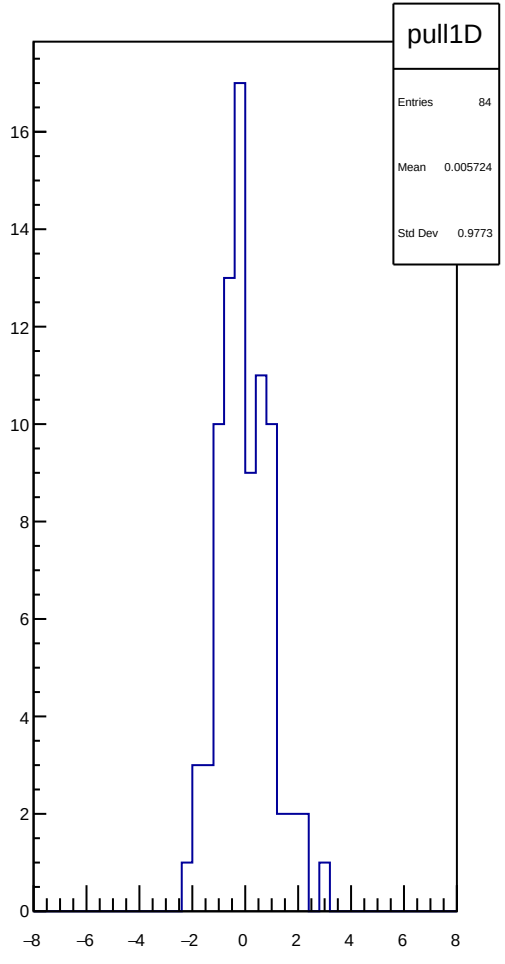

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.158e+05 / 83
p0 5.968e−12 ± 5.936e−15
50
40
30
20
10

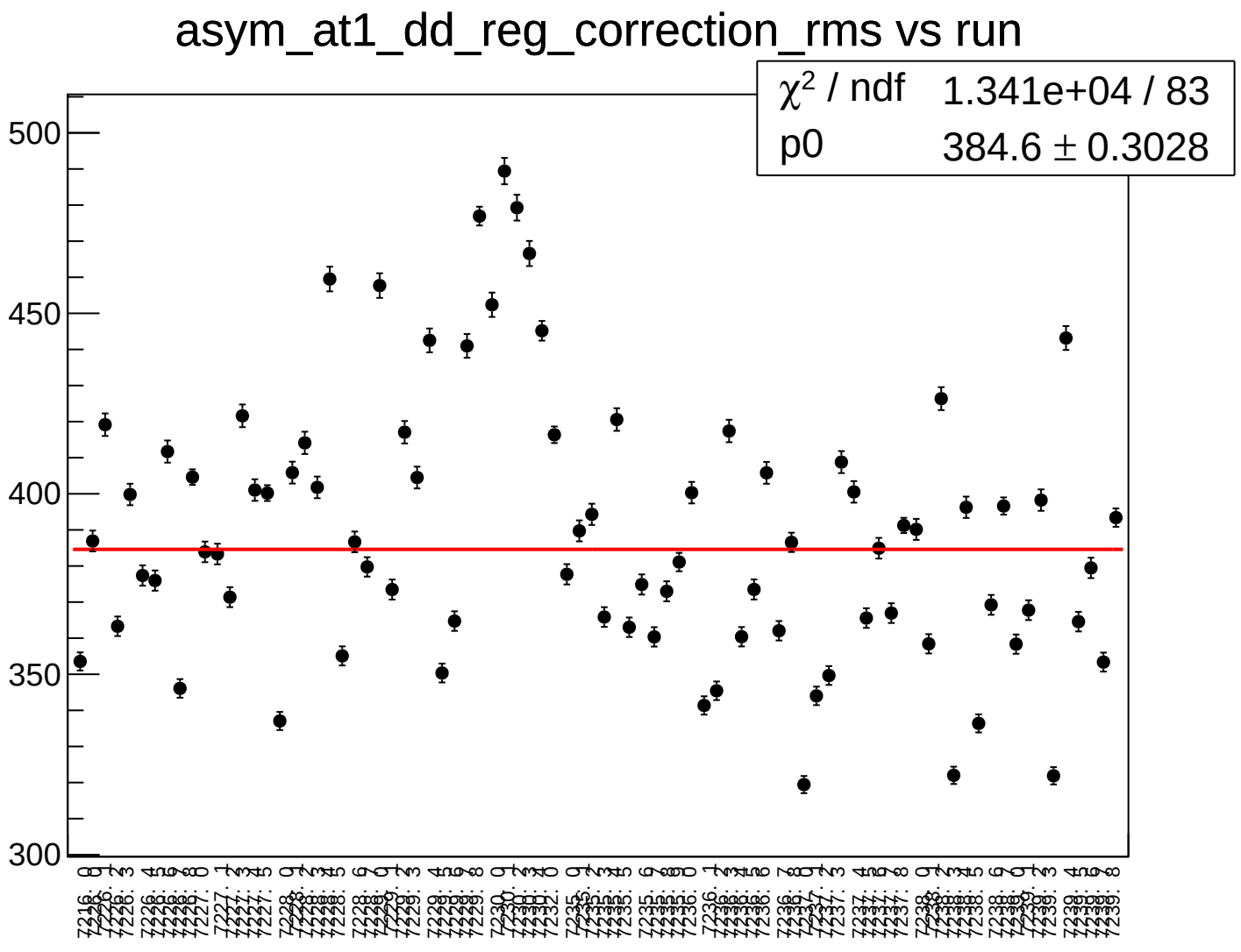

reg_asym_at1_dd_mean vs run
χ² / ndf 95.83 / 83
p0 2494 ± 2002
pull
Entries 84
Mean 373.3
Std Dev 0

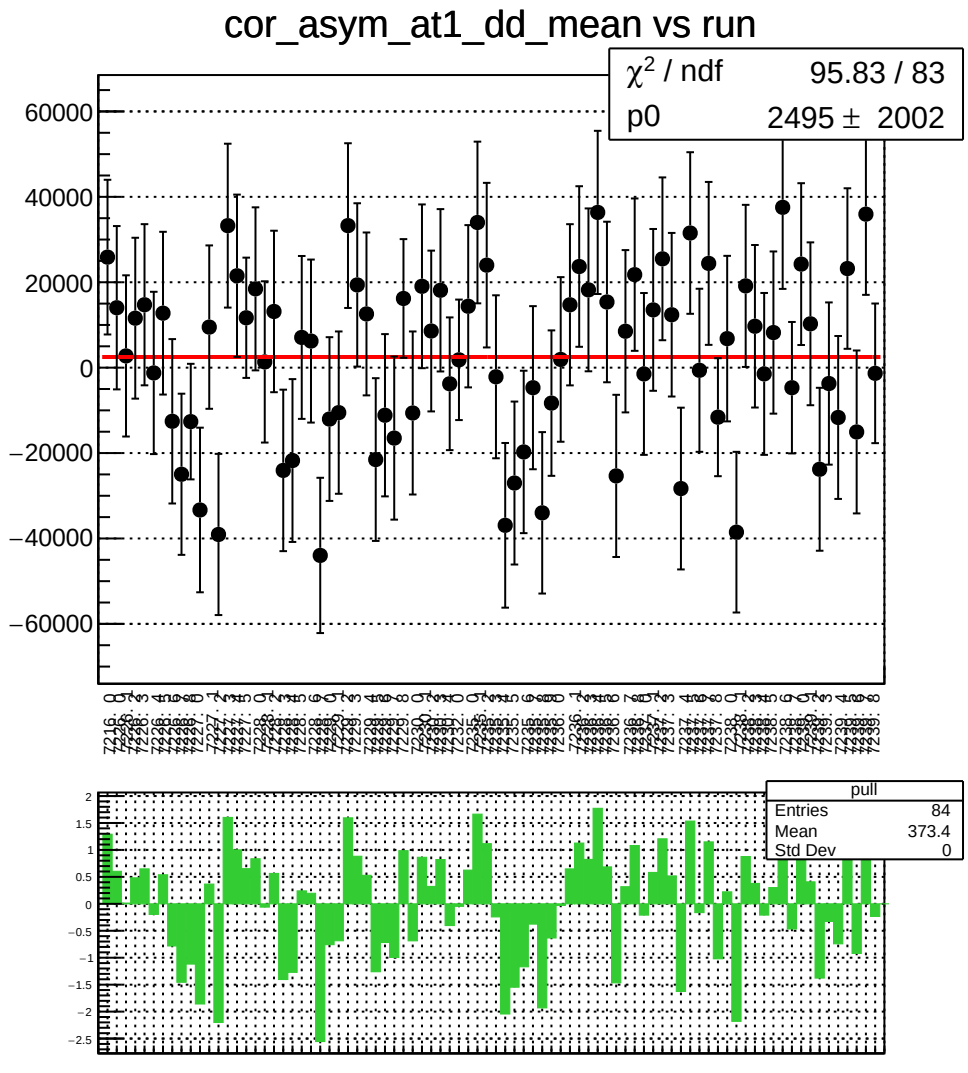

pull1D
Entries 84
Mean 0.006648
Std Dev 1.068

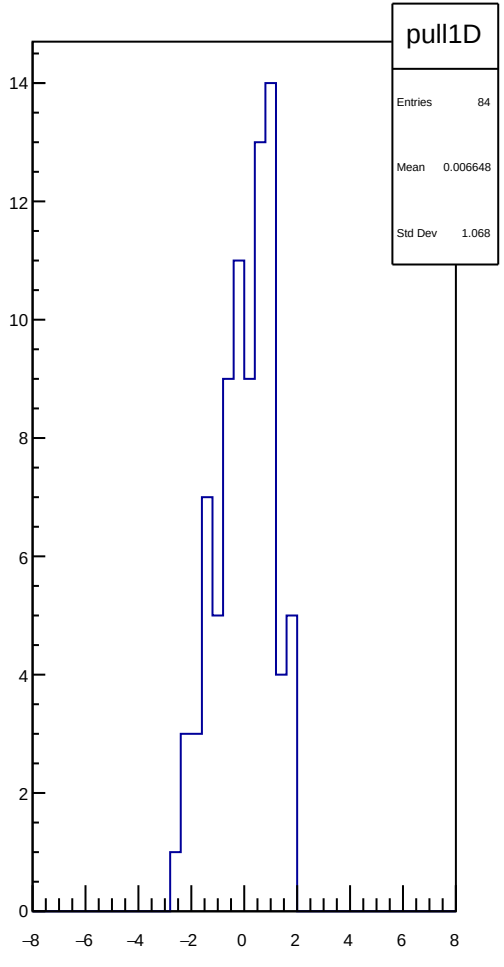

reg_asym_at1_dd_rms vs run
χ^2 / ndf 70.81 / 83
p0 1805 ± 1.416
1860
1850
1840
1830
1820
1810
1800
1790
1780
1770

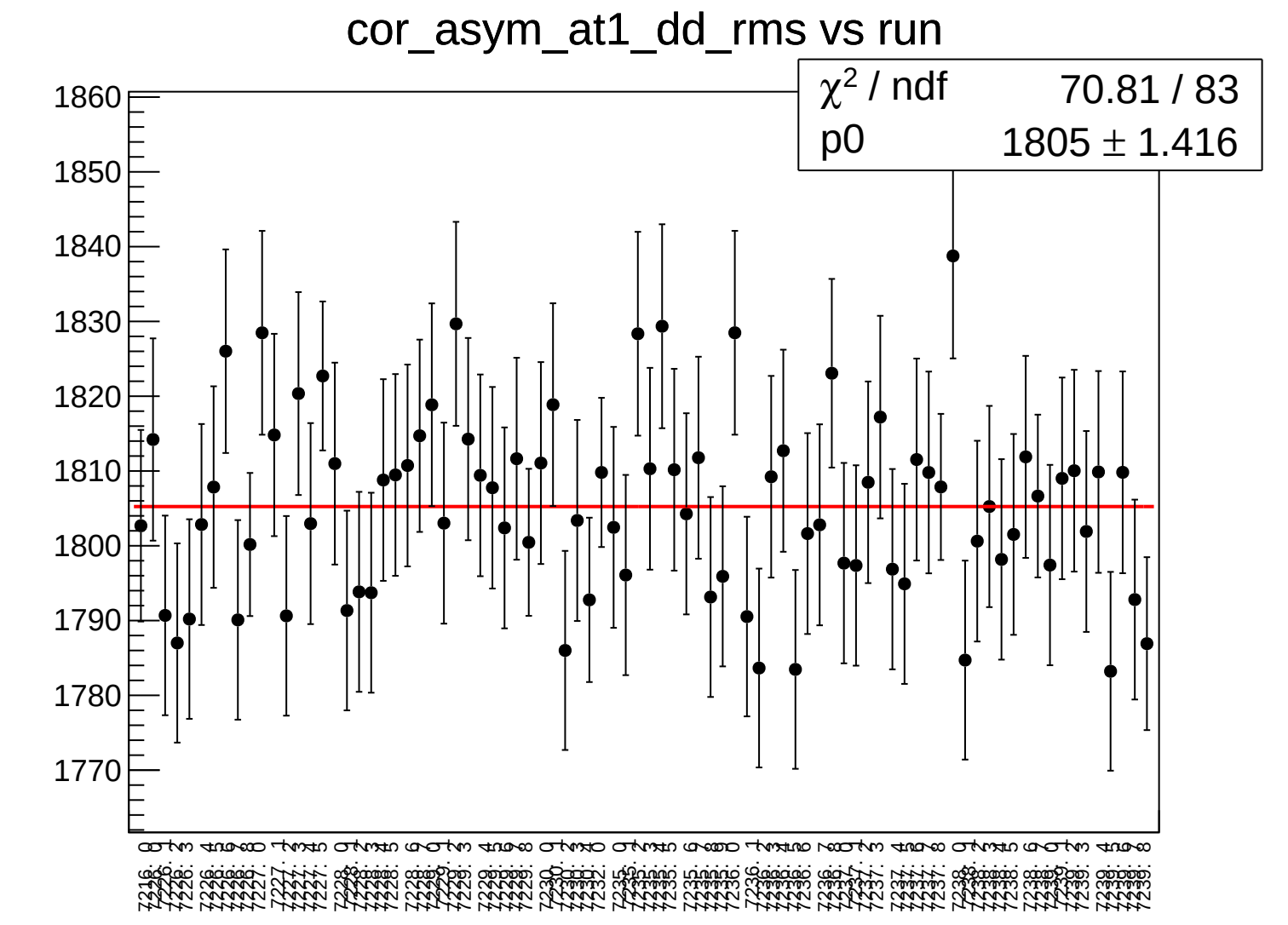

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 80.23 / 83
p0 970 ± 428.2
15000
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 35.52
Std Dev 0
3
2
1
0
−1
−2

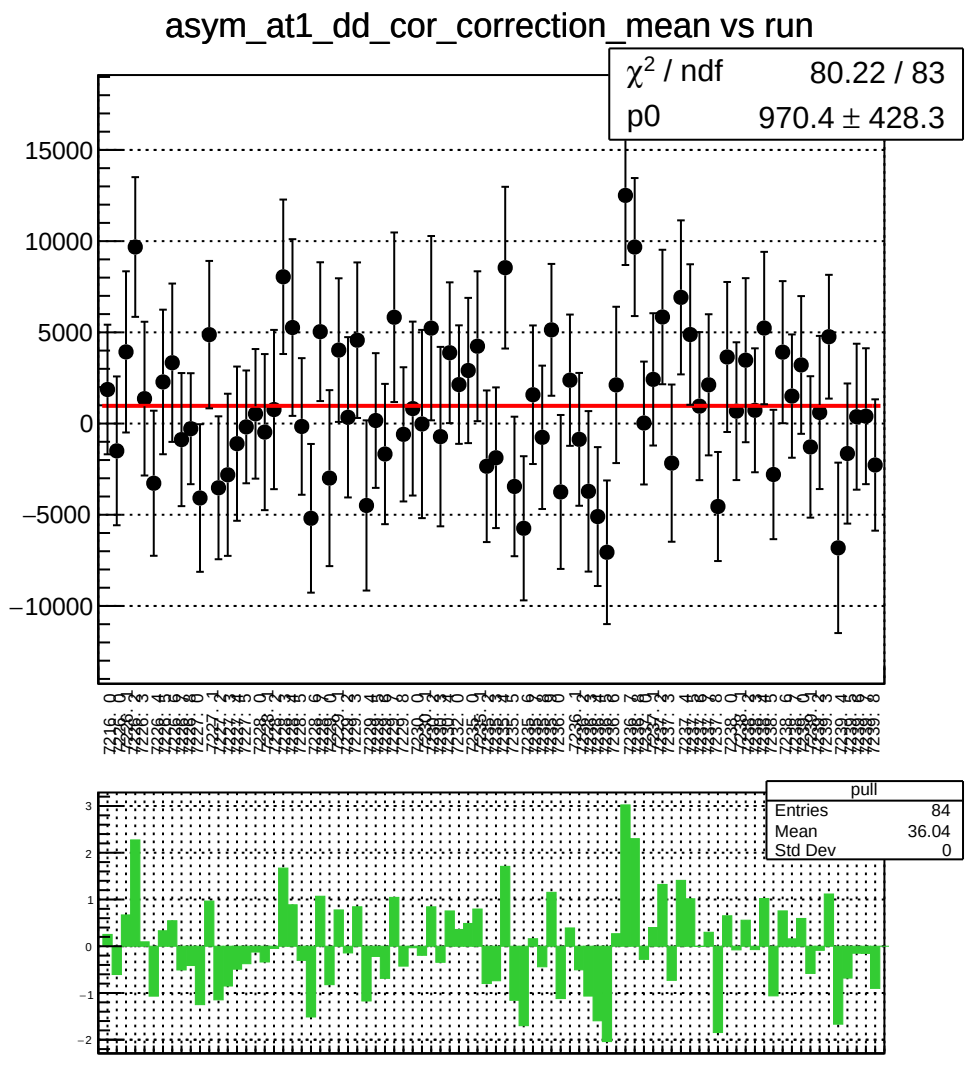

pull1D
Entries 84
Mean 0.005724
Std Dev 0.9773
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

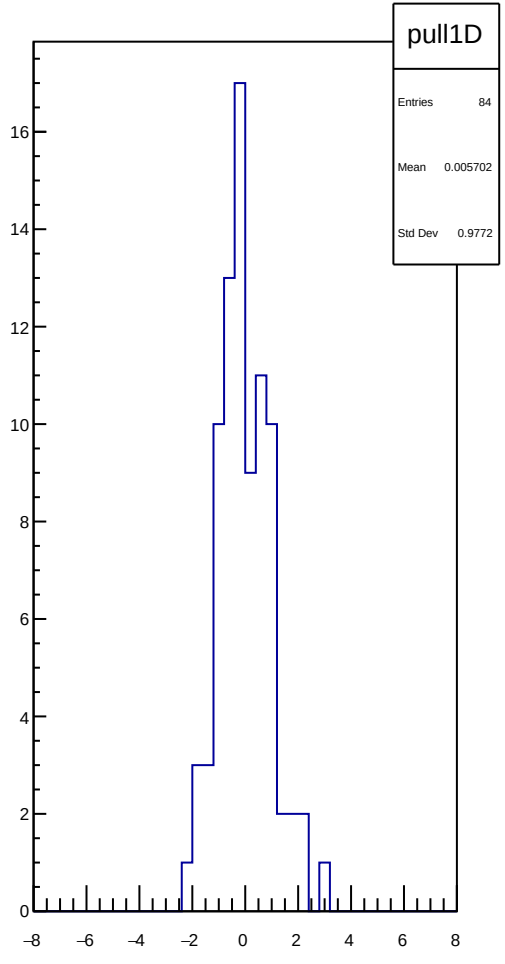

asym_at1_dd_reg_correction_rms vs run
χ² / ndf 1.341e+04 / 83
p0 384.6 ± 0.3028
500
450
400
350
300

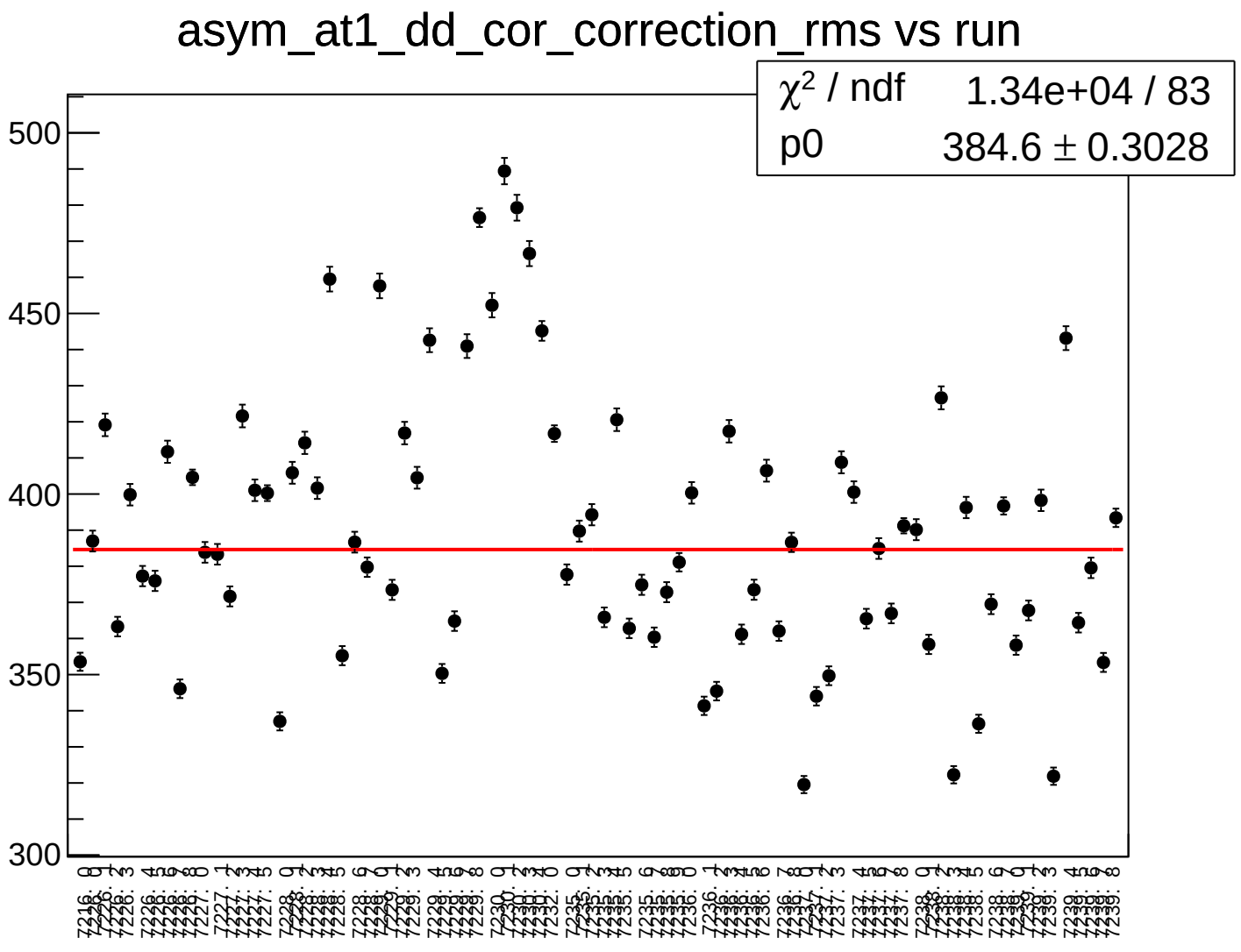

cor_asym_at1_dd_mean vs run
χ² / ndf 95.83 / 83
p0 2495 ± 2002
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 373.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

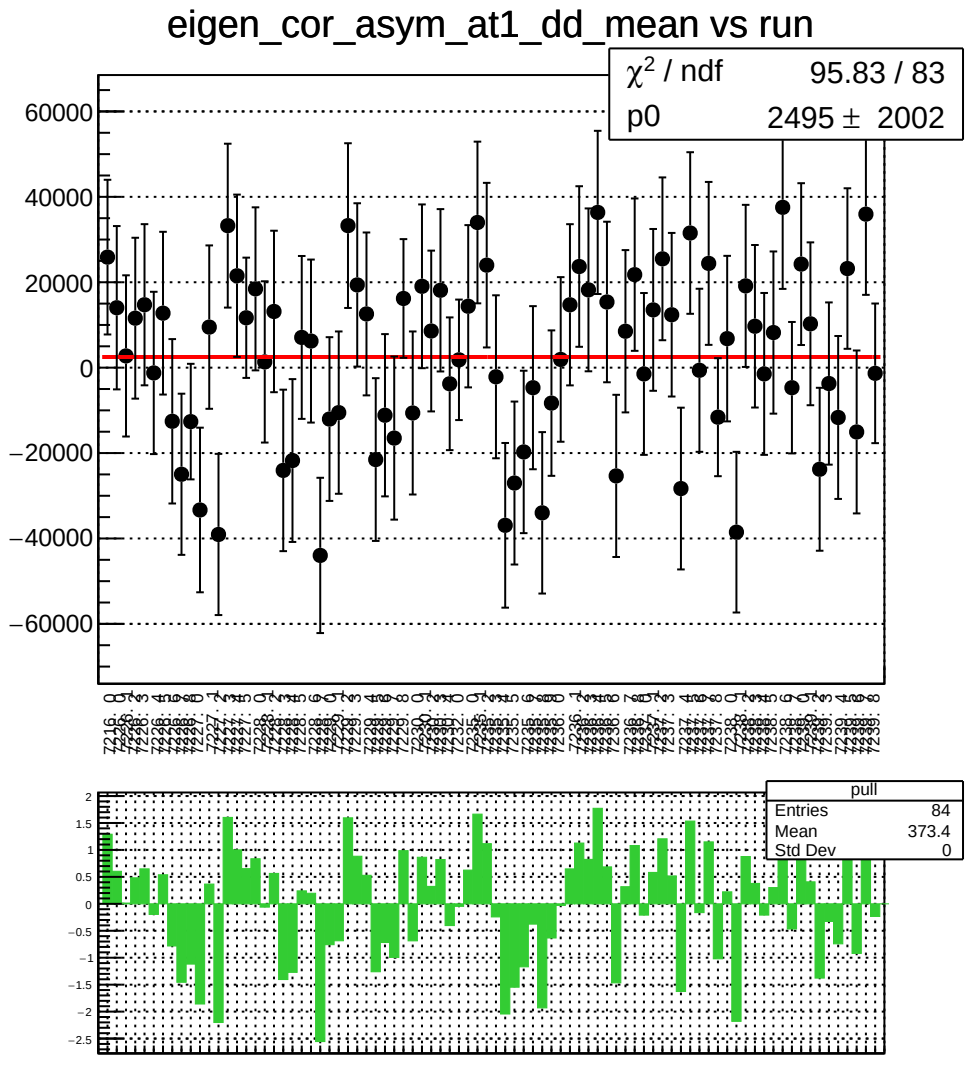

pull1D
Entries 84
Mean 0.006648
Std Dev 1.068
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

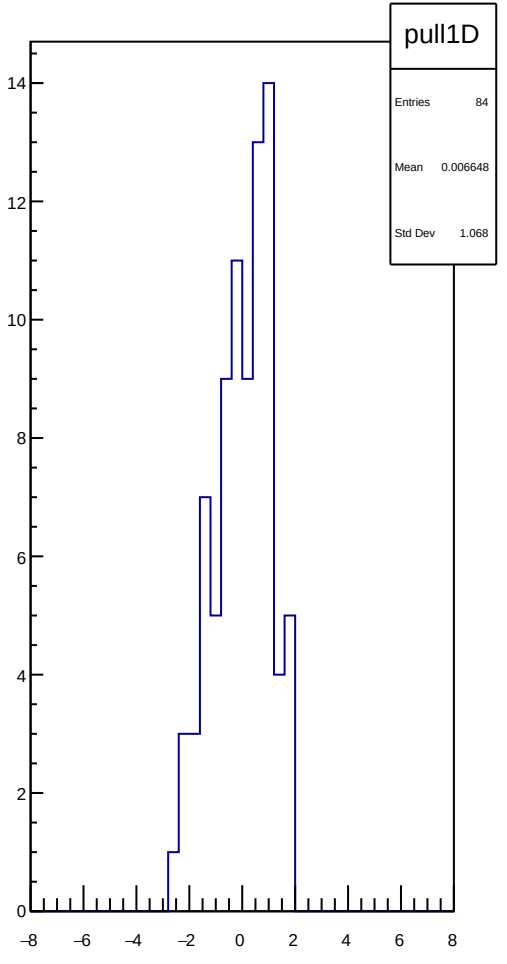

cor_asym_at1_dd_rms vs run
χ^2 / ndf 70.81 / 83
p0 1805 ± 1.416
1860
1850
1840
1830
1820
1810
1800
1790
1780
1770

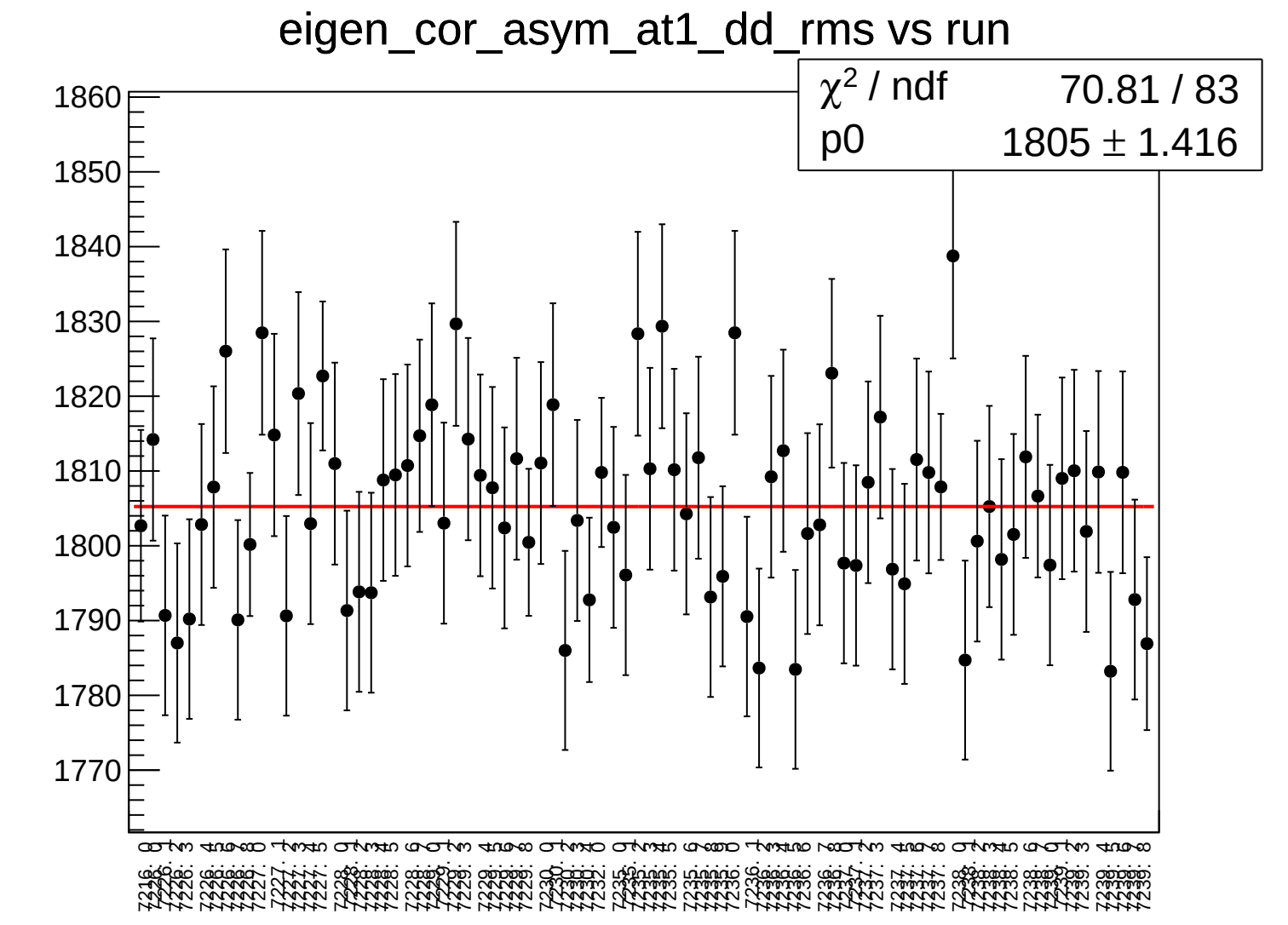

asym_at1_dd_cor_correction_mean vs run
χ² / ndf 80.22 / 83
p0 970.4 ± 428.3
15000
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 36.04
Std Dev 0
3
2
1
0
−1
−2

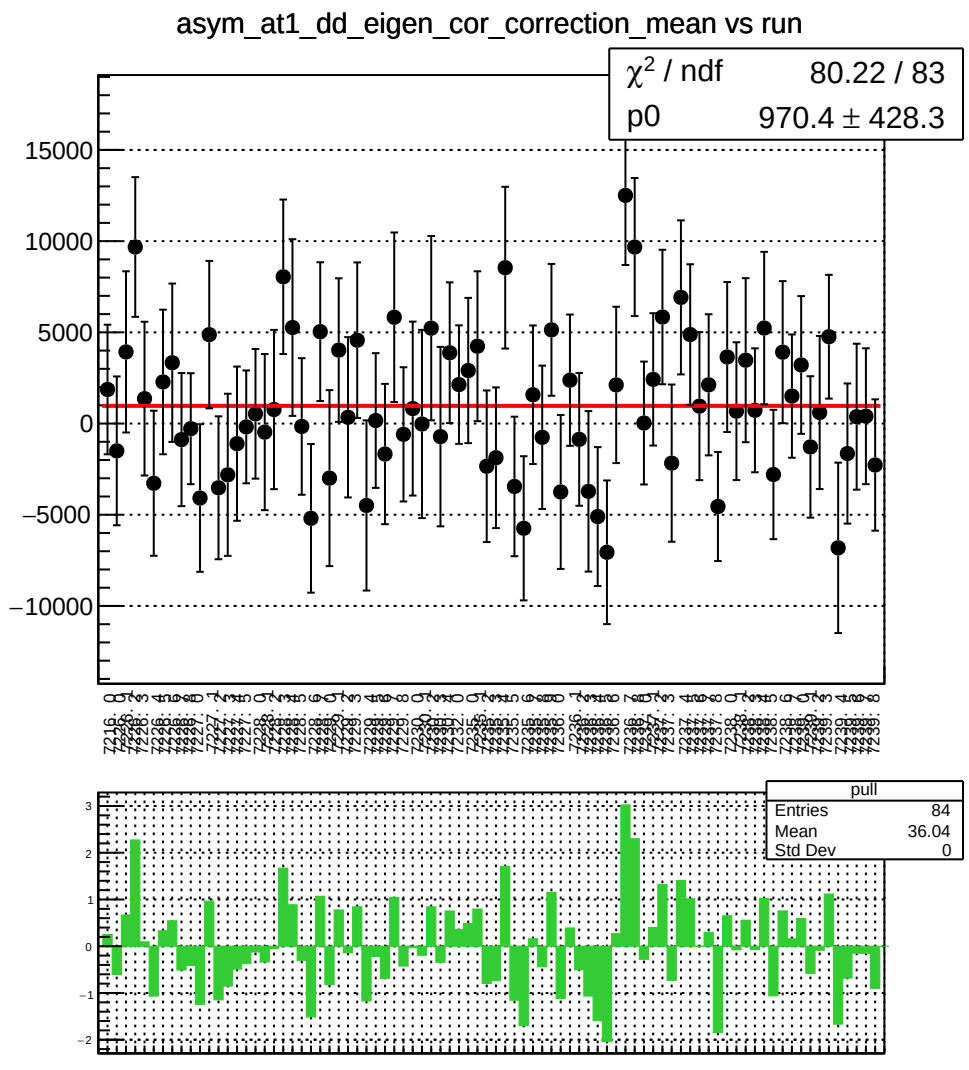

pull1D
Entries 84
Mean 0.005702
Std Dev 0.9772
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

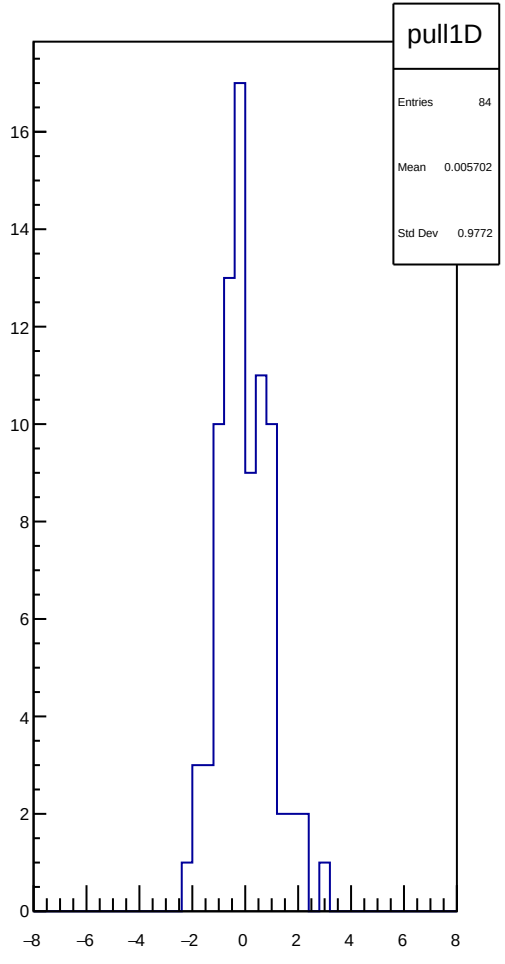

asym_at1_dd_cor_correction_rms vs run
χ² / ndf 1.34e+04 / 83
p0 384.6 ± 0.3028
500
450
400
350
300

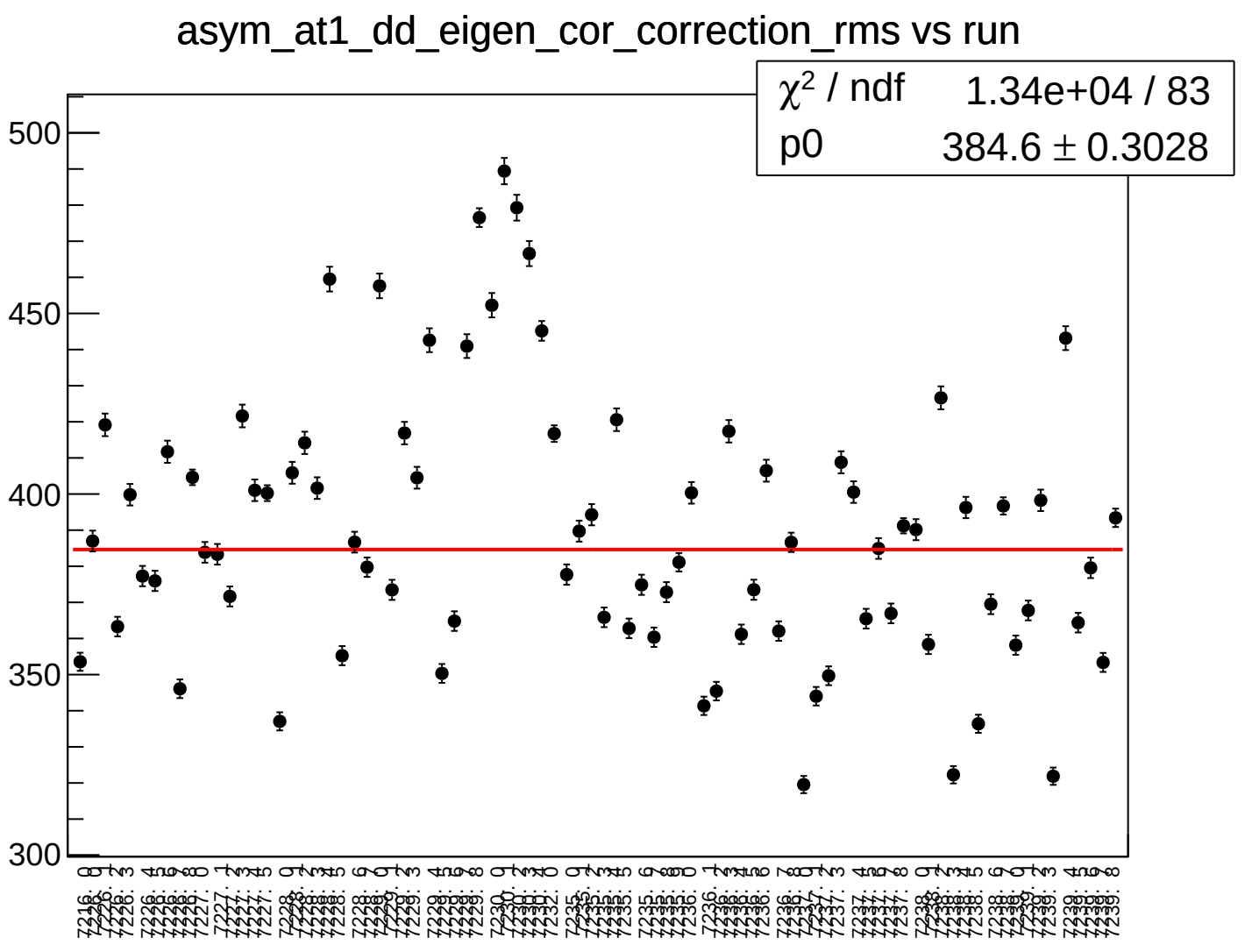

eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 95.83 / 83
p0 2495 ± 2002
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 373.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

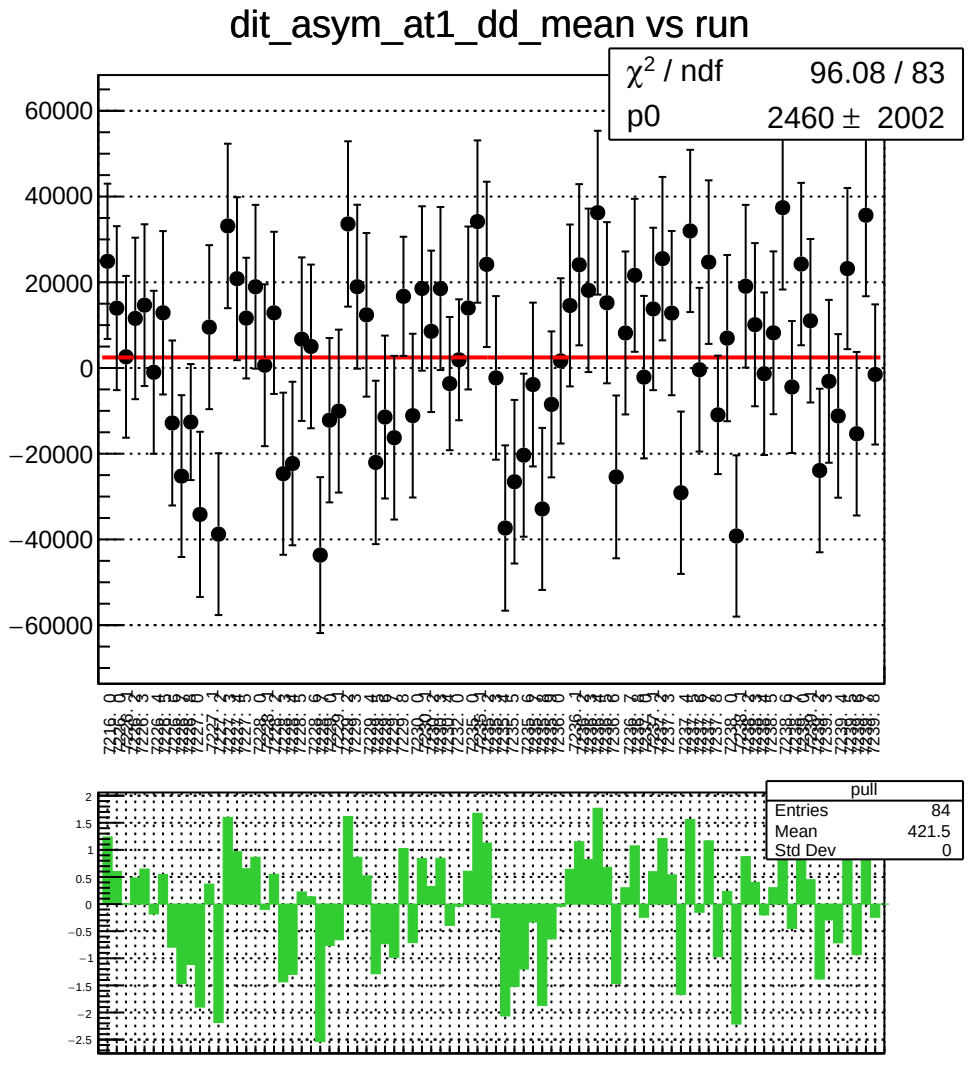

pull1D
Entries 84
Mean 0.006648
Std Dev 1.068
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

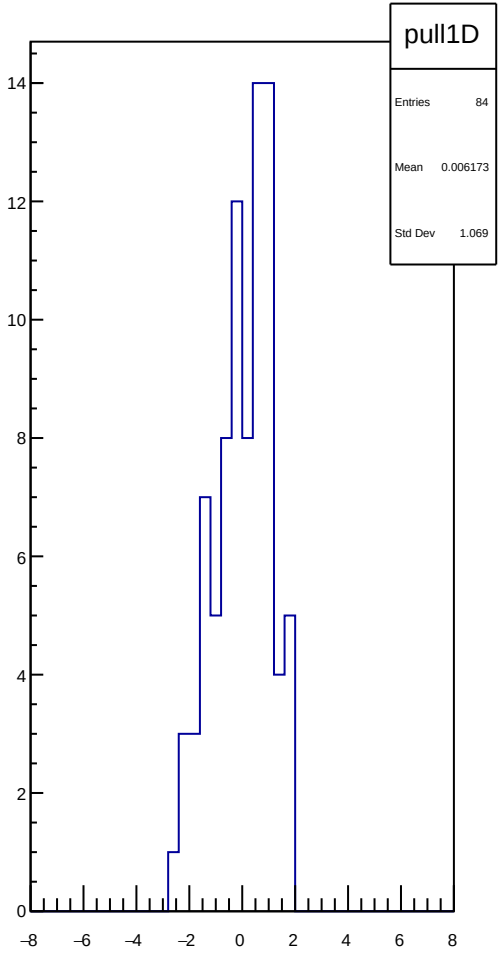

eigen_cor_asym_at1_dd_rms vs run
χ^2 / ndf 70.81 / 83
p0 1805 ± 1.416
1860
1850
1840
1830
1820
1810
1800
1790
1780
1770

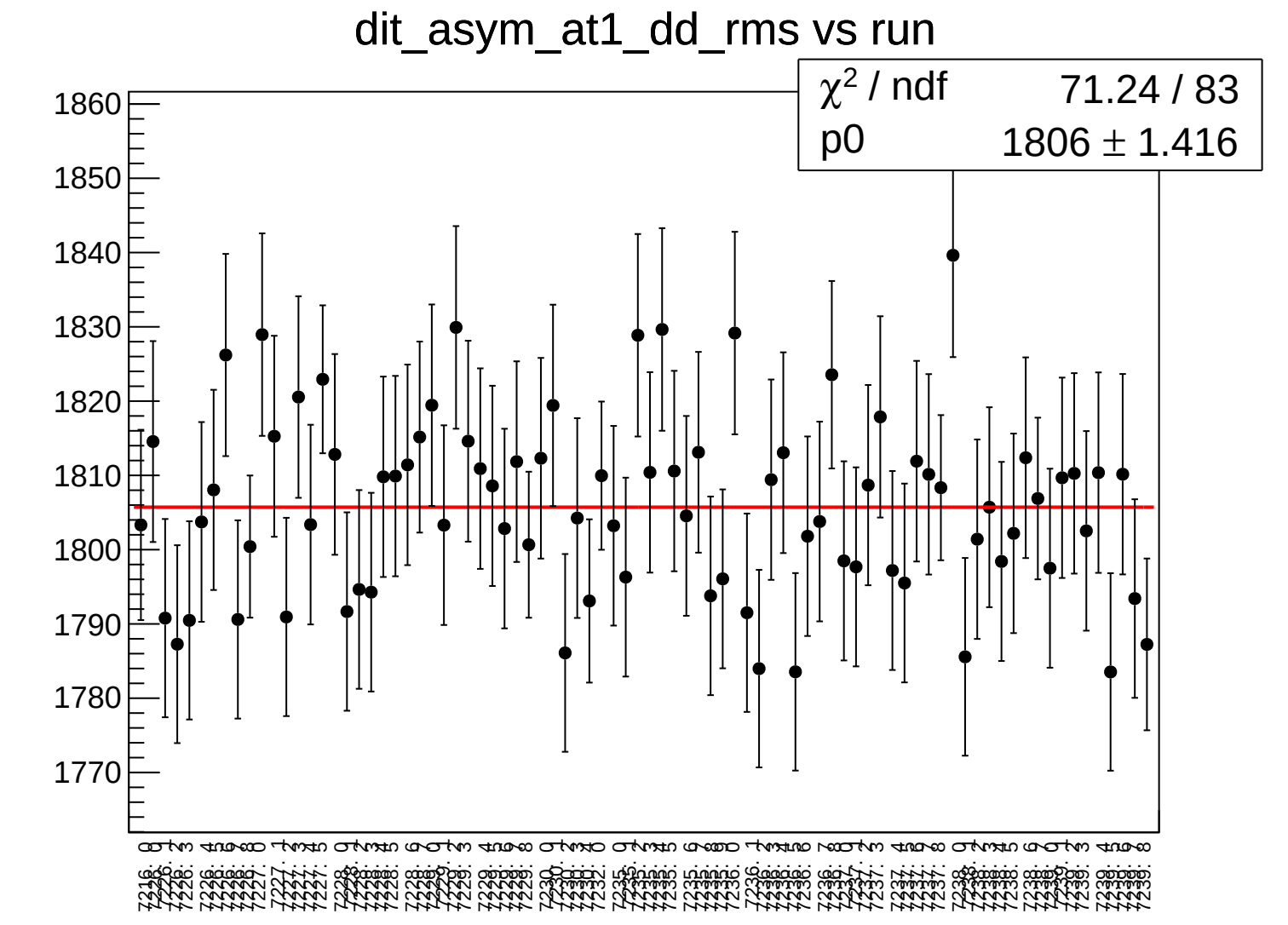

asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 80.22 / 83
p0 970.4 ± 428.3
15000
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 36.04
Std Dev 0
3
2
1
0
−1
−2

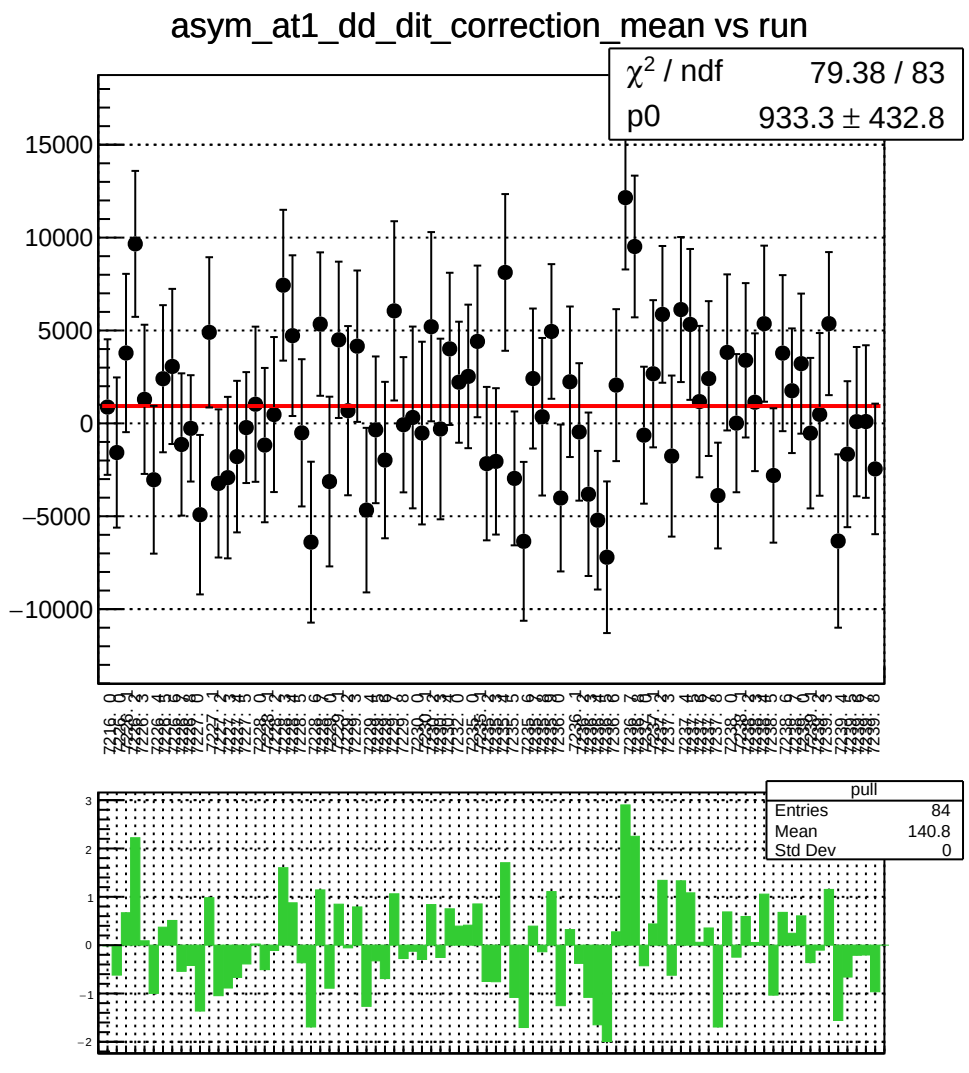

pull1D
Entries 84
Mean 0.005702
Std Dev 0.9772
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

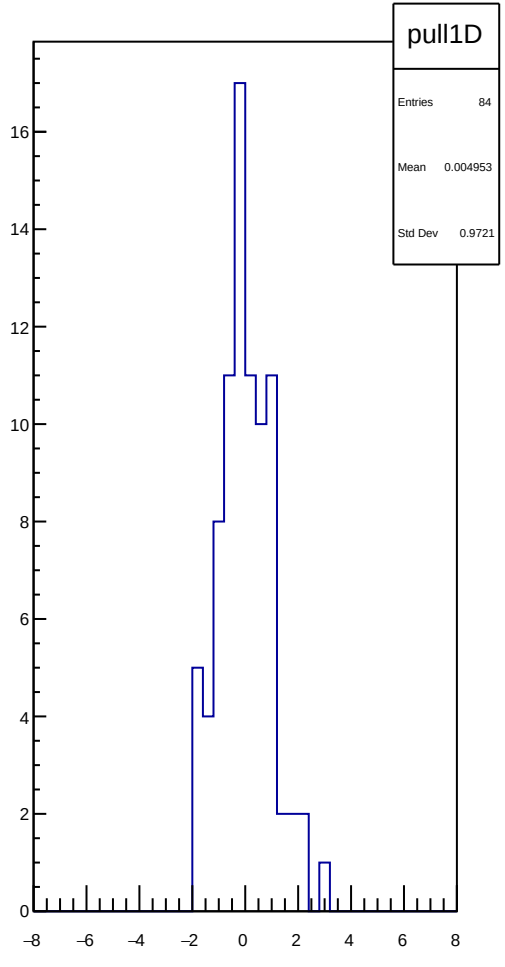

asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.34e+04 / 83
p0 384.6 ± 0.3028
500
450
400
350
300

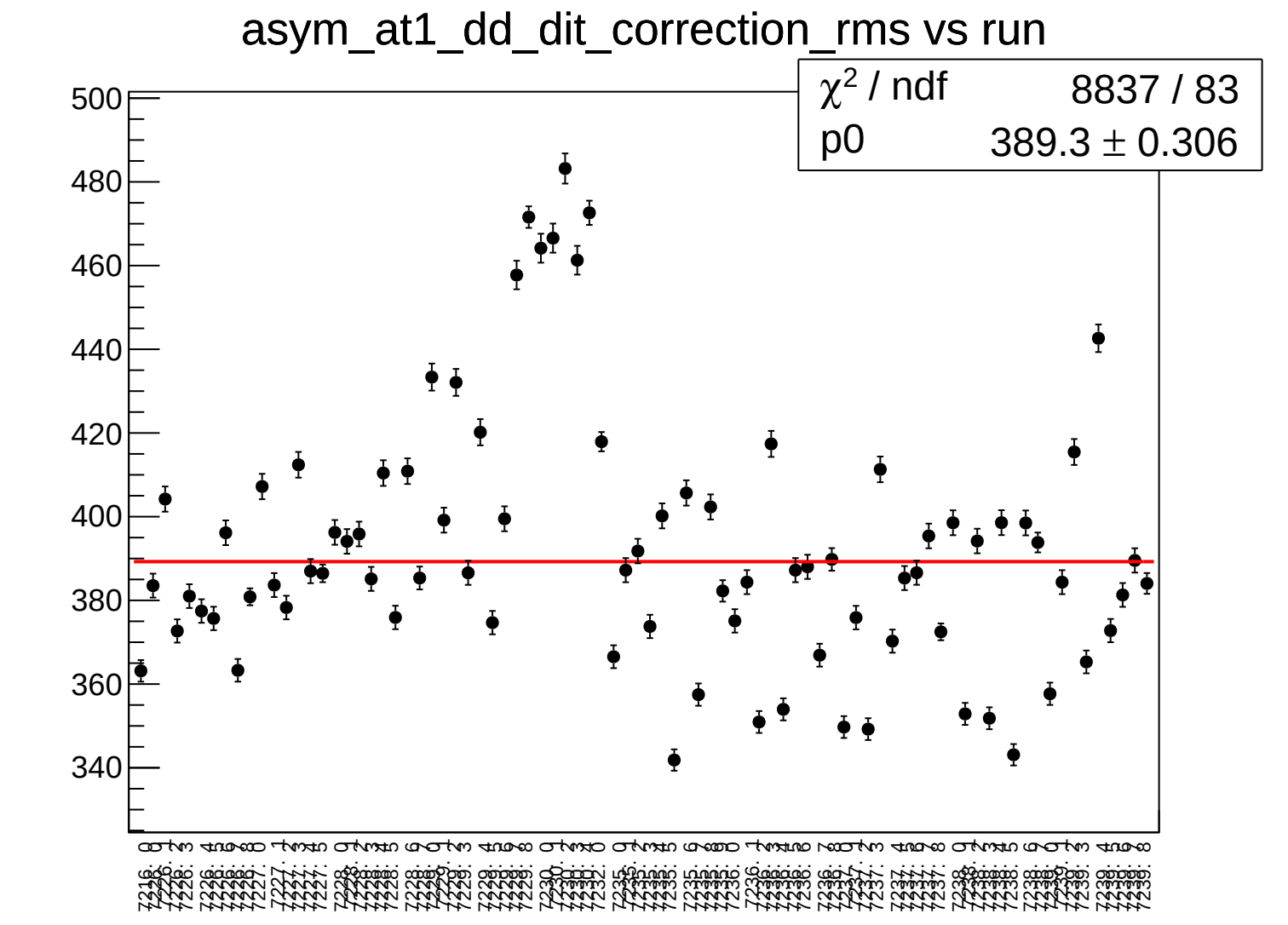

dit_asym_at1_dd_mean vs run
χ² / ndf 96.08 / 83
p0 2460 ± 2002
pull
Entries 84
Mean 421.5
Std Dev 0

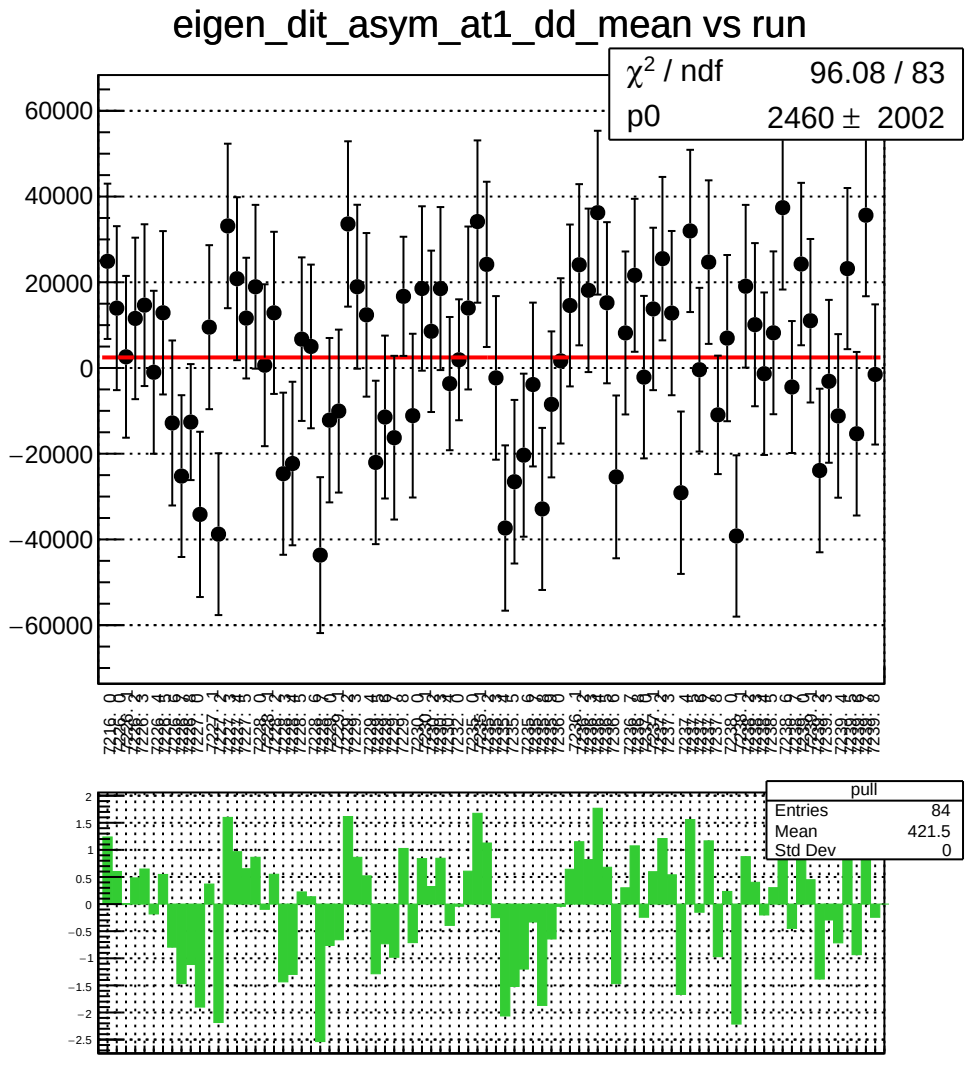

pull1D
Entries 84
Mean 0.006173
Std Dev 1.069

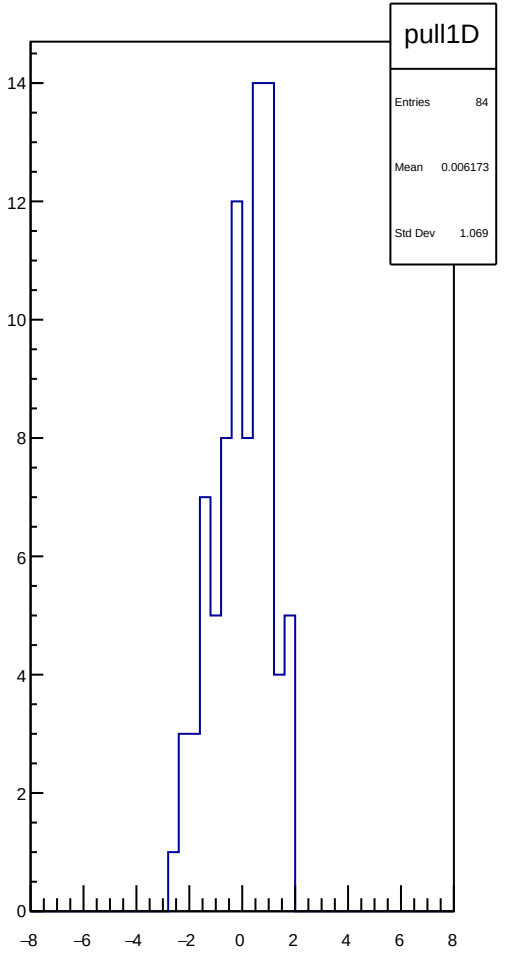

dit_asym_at1_dd_rms vs run
χ^2 / ndf 71.24 / 83
p0 1806 ± 1.416
1860
1850
1840
1830
1820
1810
1800
1790
1780
1770

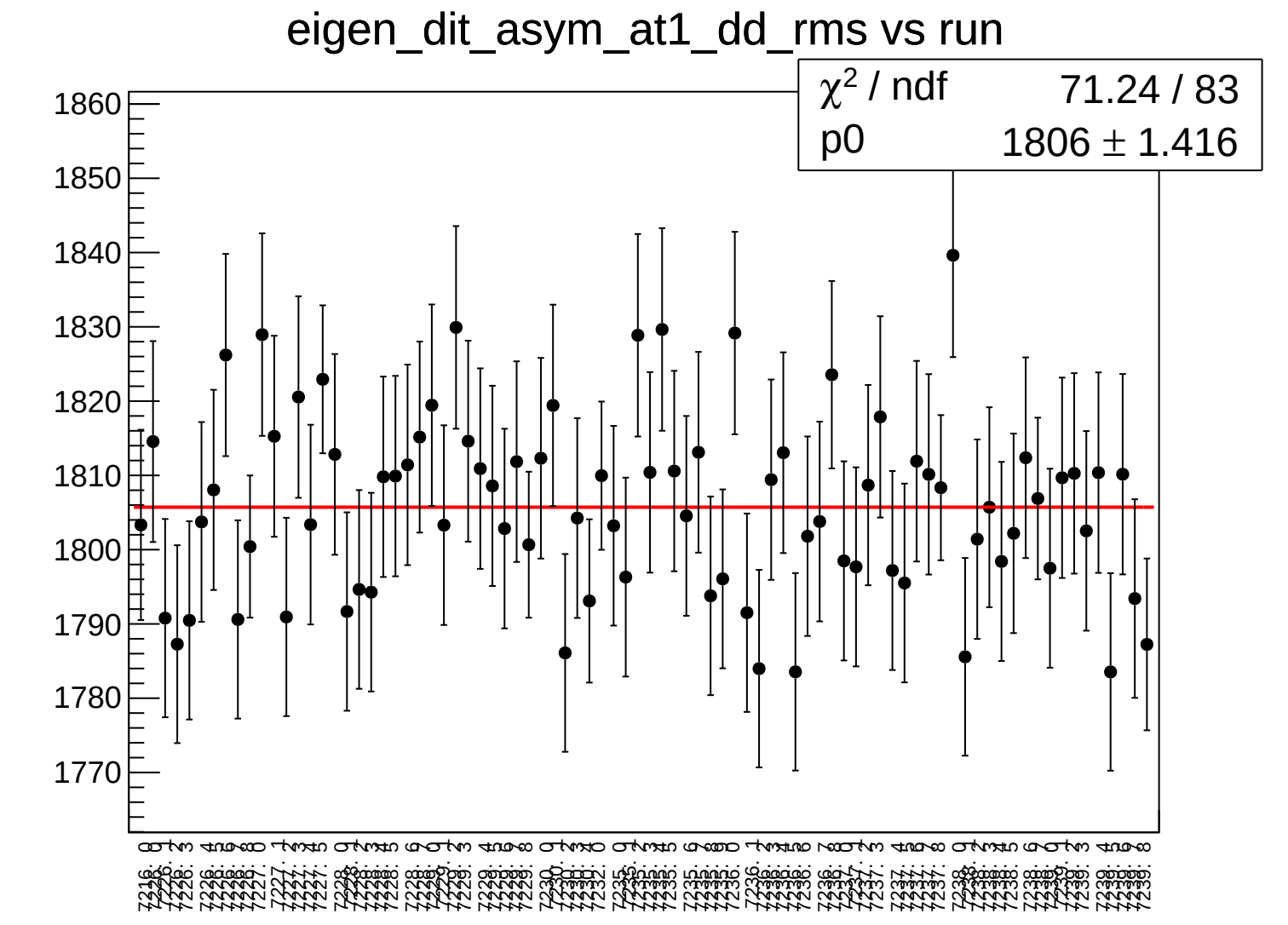

asym_at1_dd_dit_correction_mean vs run
χ² / ndf 79.38 / 83
p0 933.3 ± 432.8
15000
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 140.8
Std Dev 0
3
2
1
0
−1
−2

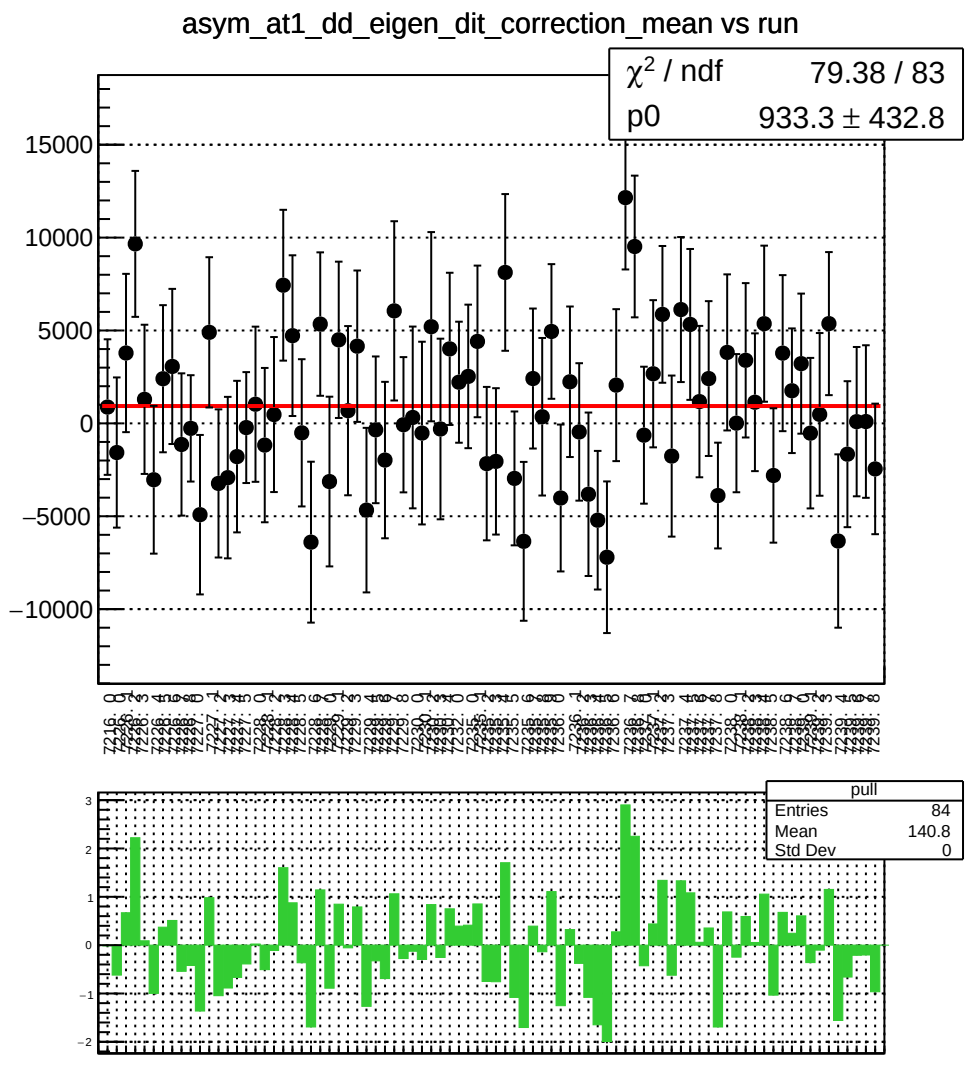

pull1D
Entries 84
Mean 0.004953
Std Dev 0.9721
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

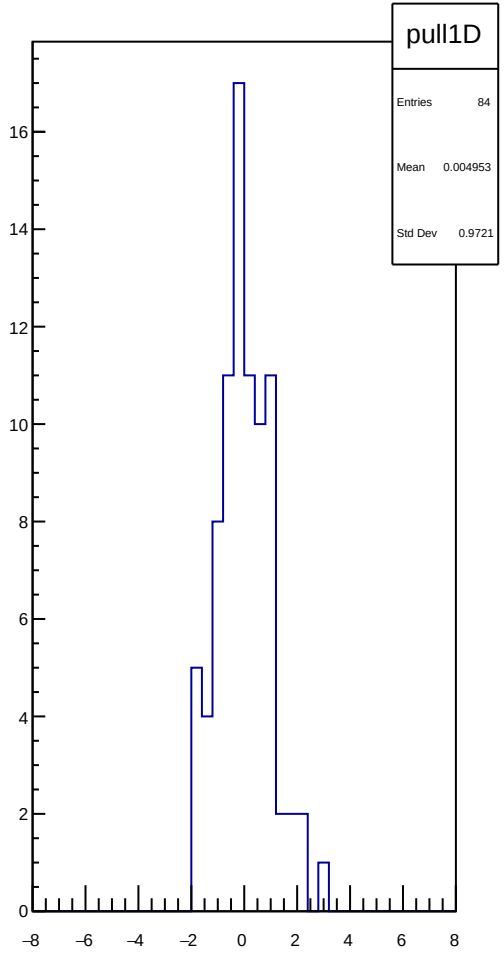

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 8837 / 83
p0 389.3 ± 0.306
500
480
460
440
420
400
380
360
340

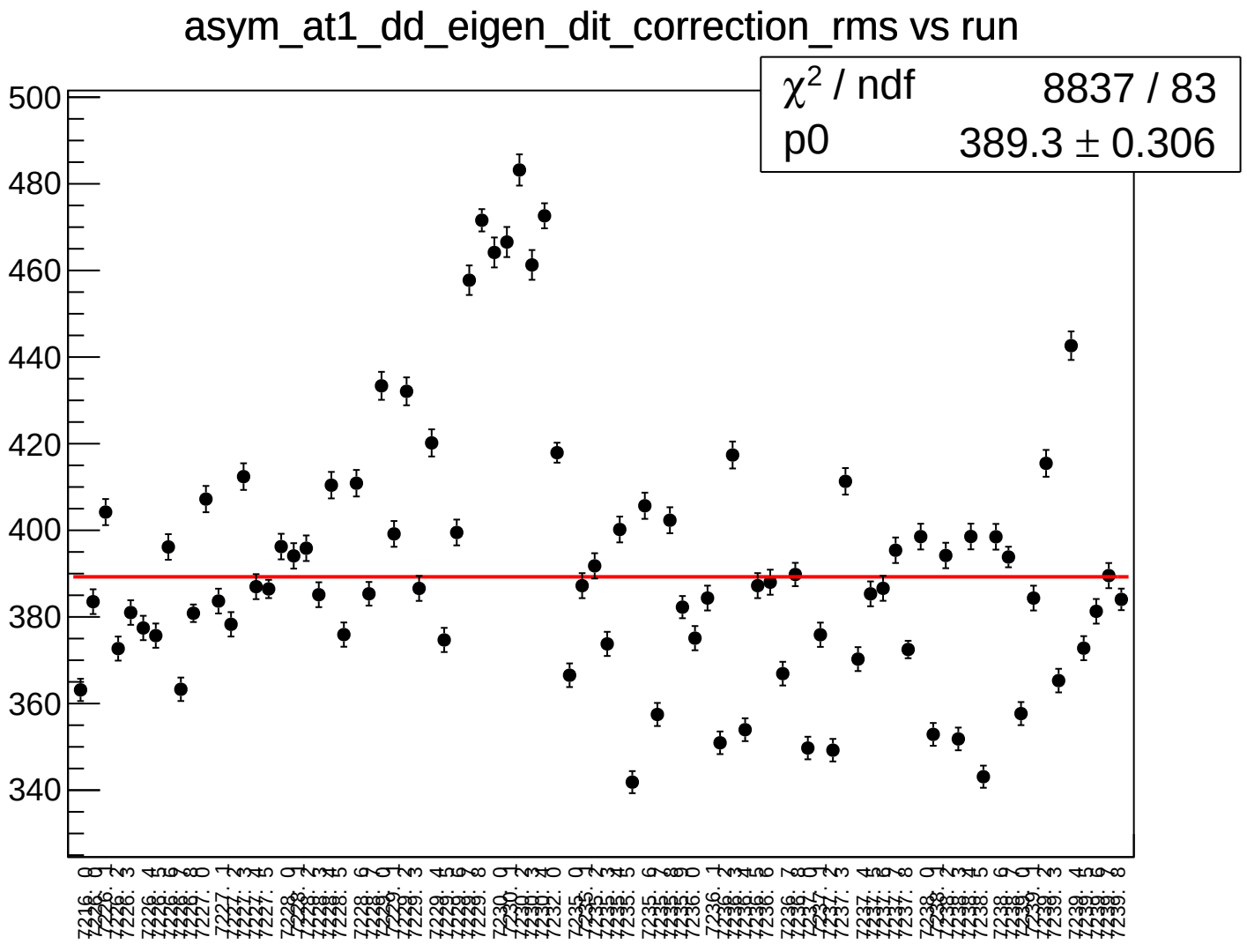

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 96.08 / 83
p0 2460 ± 2002
pull
Entries 84
Mean 421.5
Std Dev 0

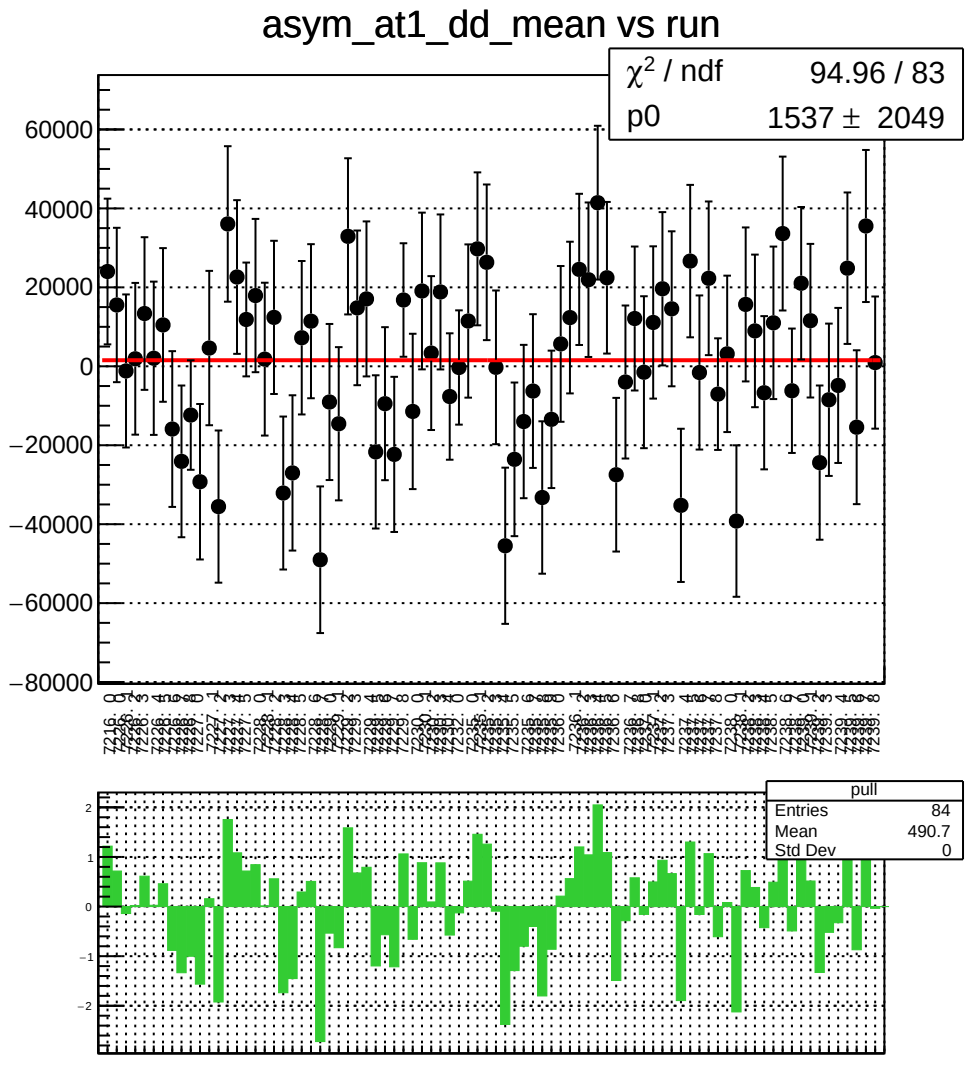

pull1D
Entries 84
Mean 0.006173
Std Dev 1.069

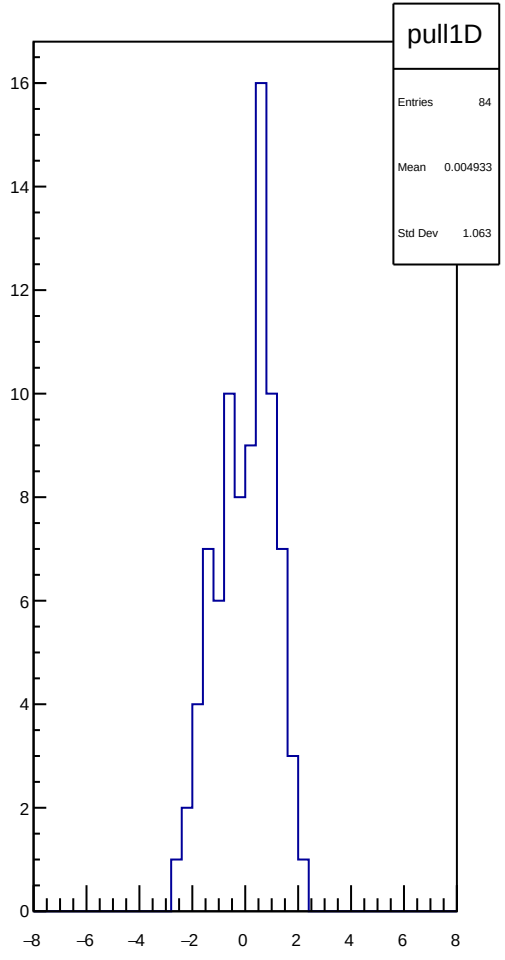

eigen_dit_asym_at1_dd_rms vs run
χ² / ndf 71.24 / 83
p0 1806 ± 1.416
1860
1850
1840
1830
1820
1810
1800
1790
1780
1770

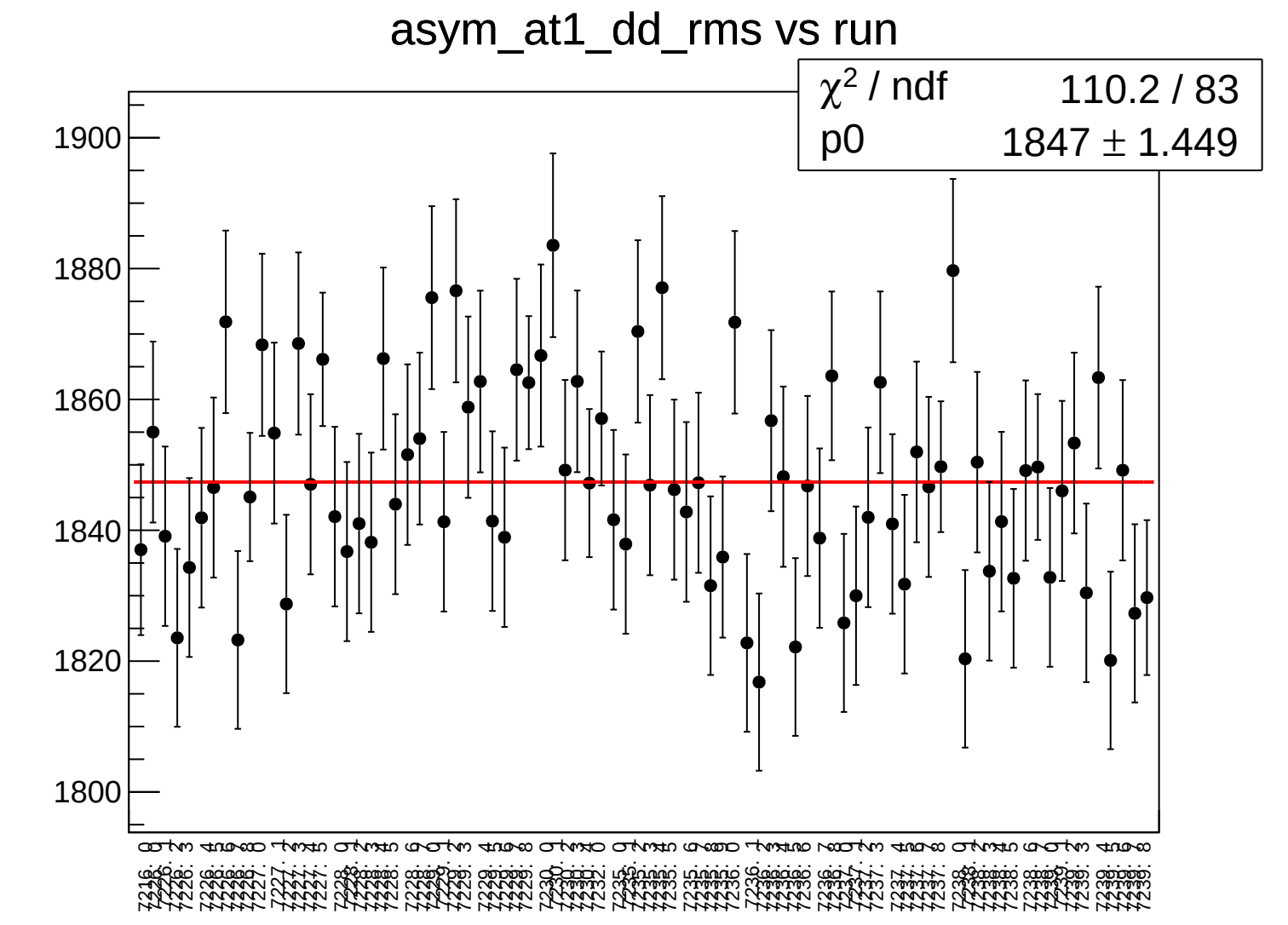

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 79.38 / 83
p0 933.3 ± 432.8
15000
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 140.8
Std Dev 0
3
2
1
0
−1
−2

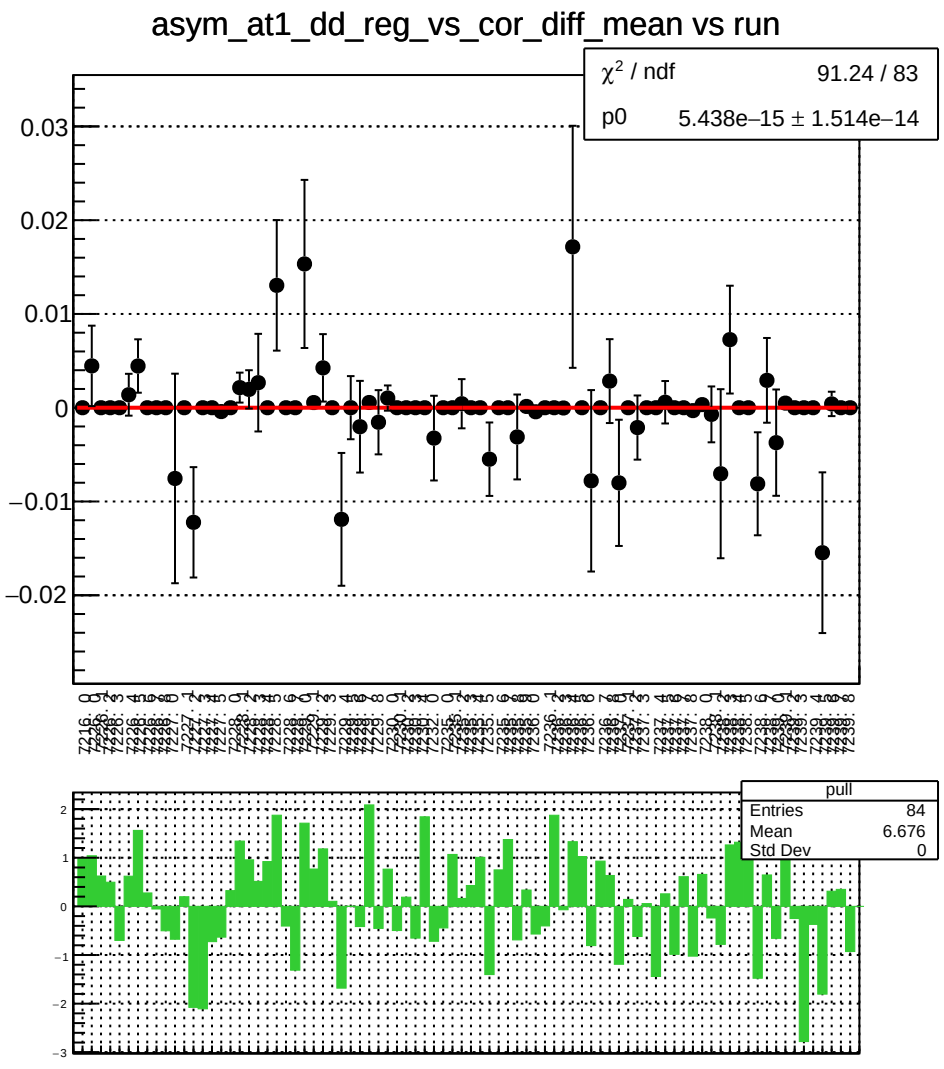

pull1D
Entries 84
Mean 0.004953
Std Dev 0.9721
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

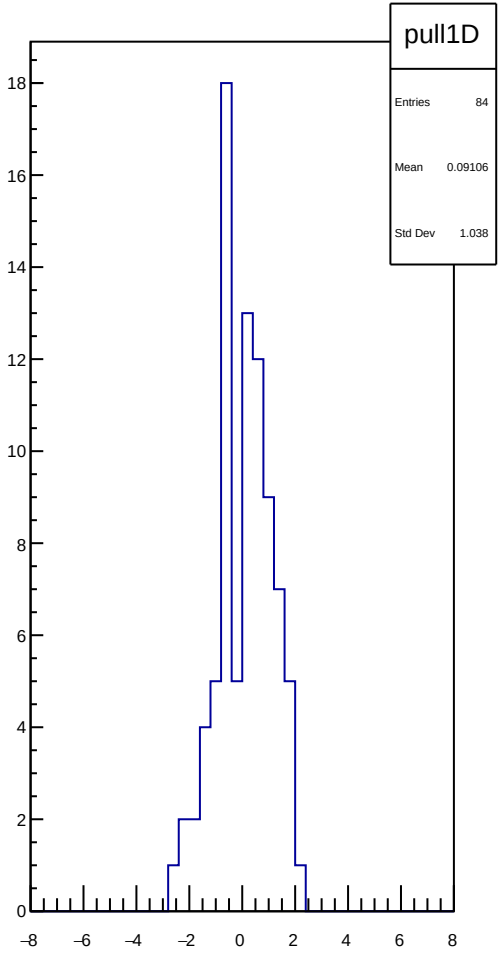

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 8837 / 83
p0 389.3 ± 0.306
500
480
460
440
420
400
380
360
340

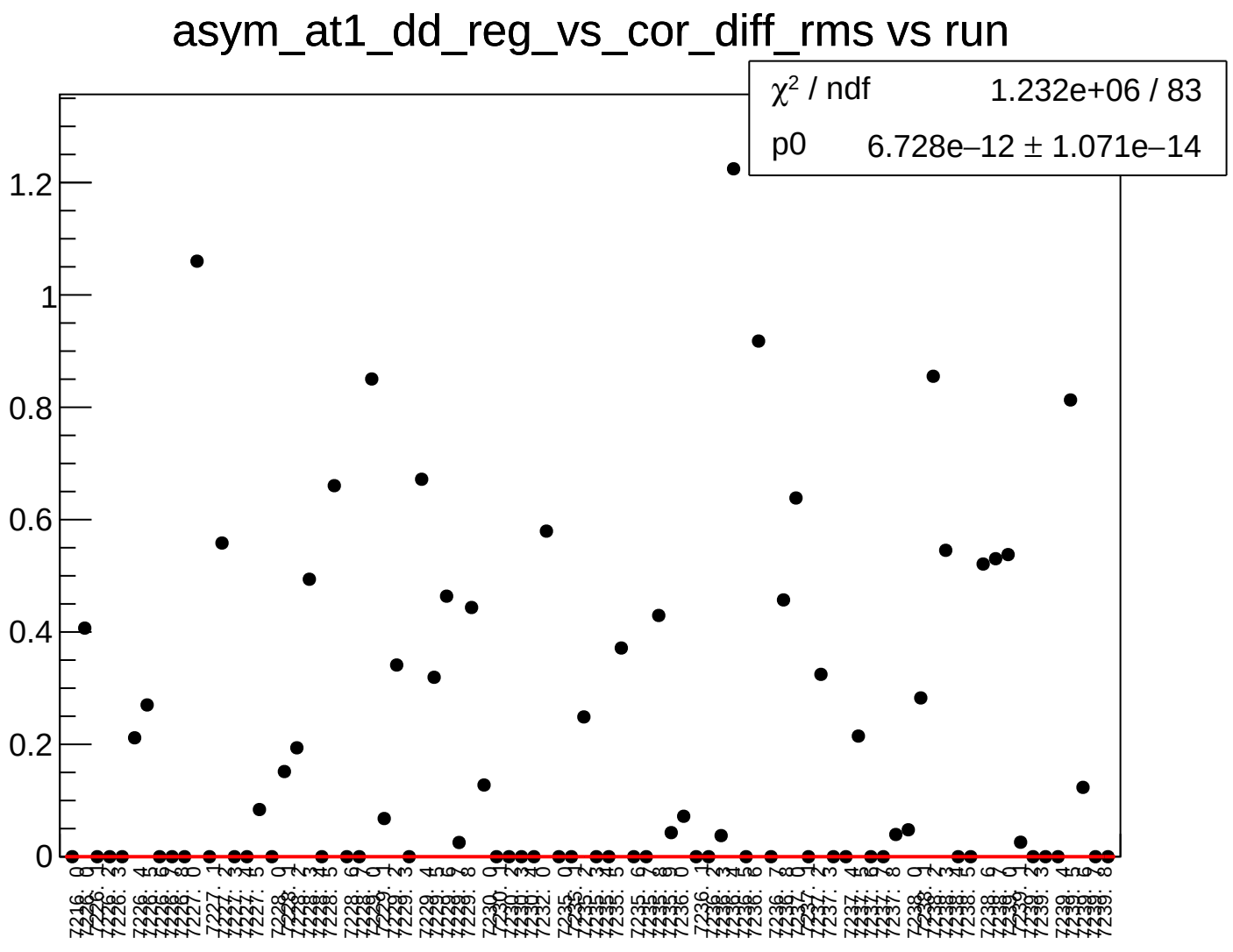

asym_at1_dd_mean vs run
χ² / ndf 94.96 / 83
p0 1537 ± 2049
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean 490.7
Std Dev 0
2
1
0
−1
−2

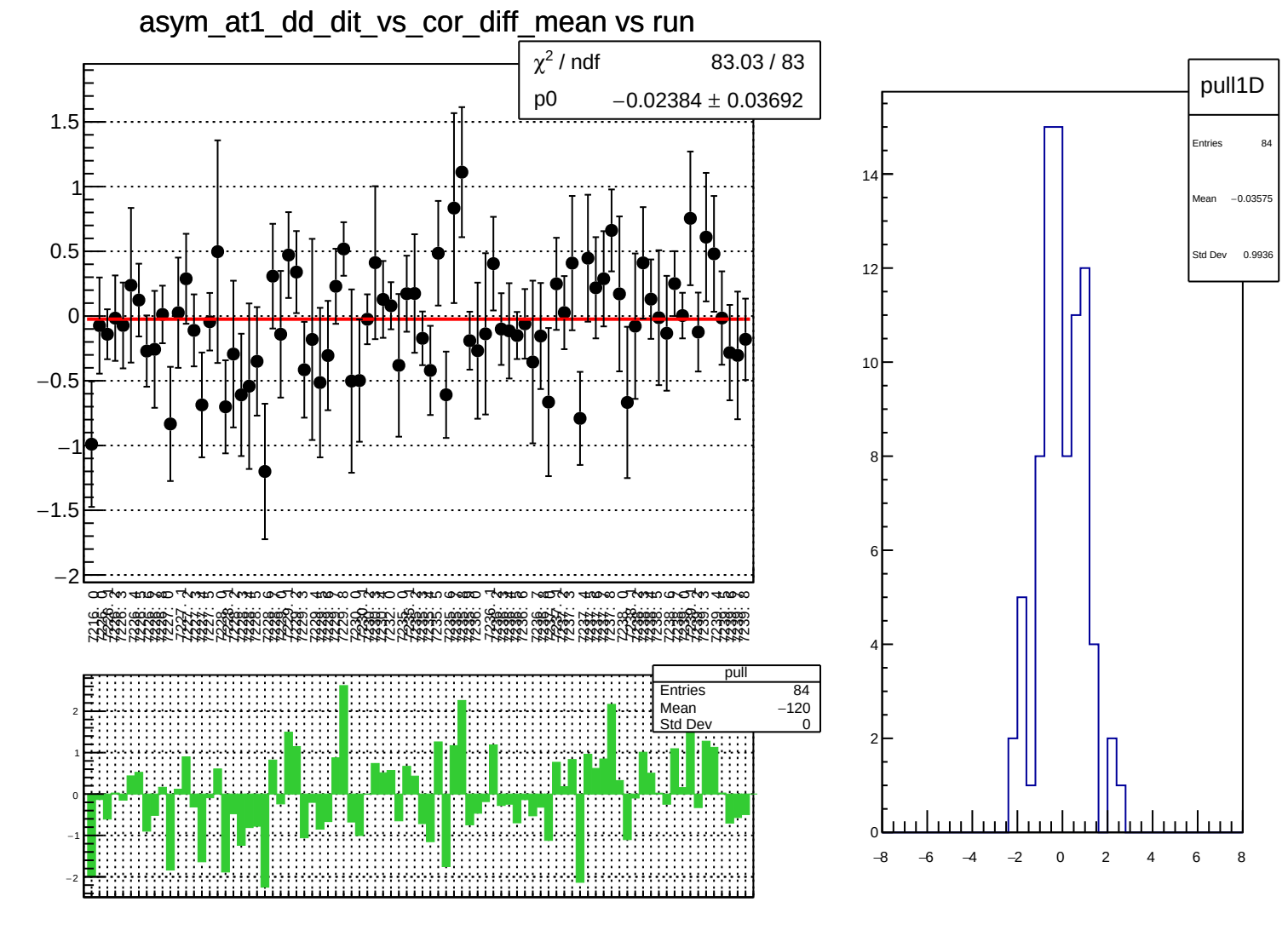

pull1D
Entries 84
Mean 0.004933
Std Dev 1.063
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

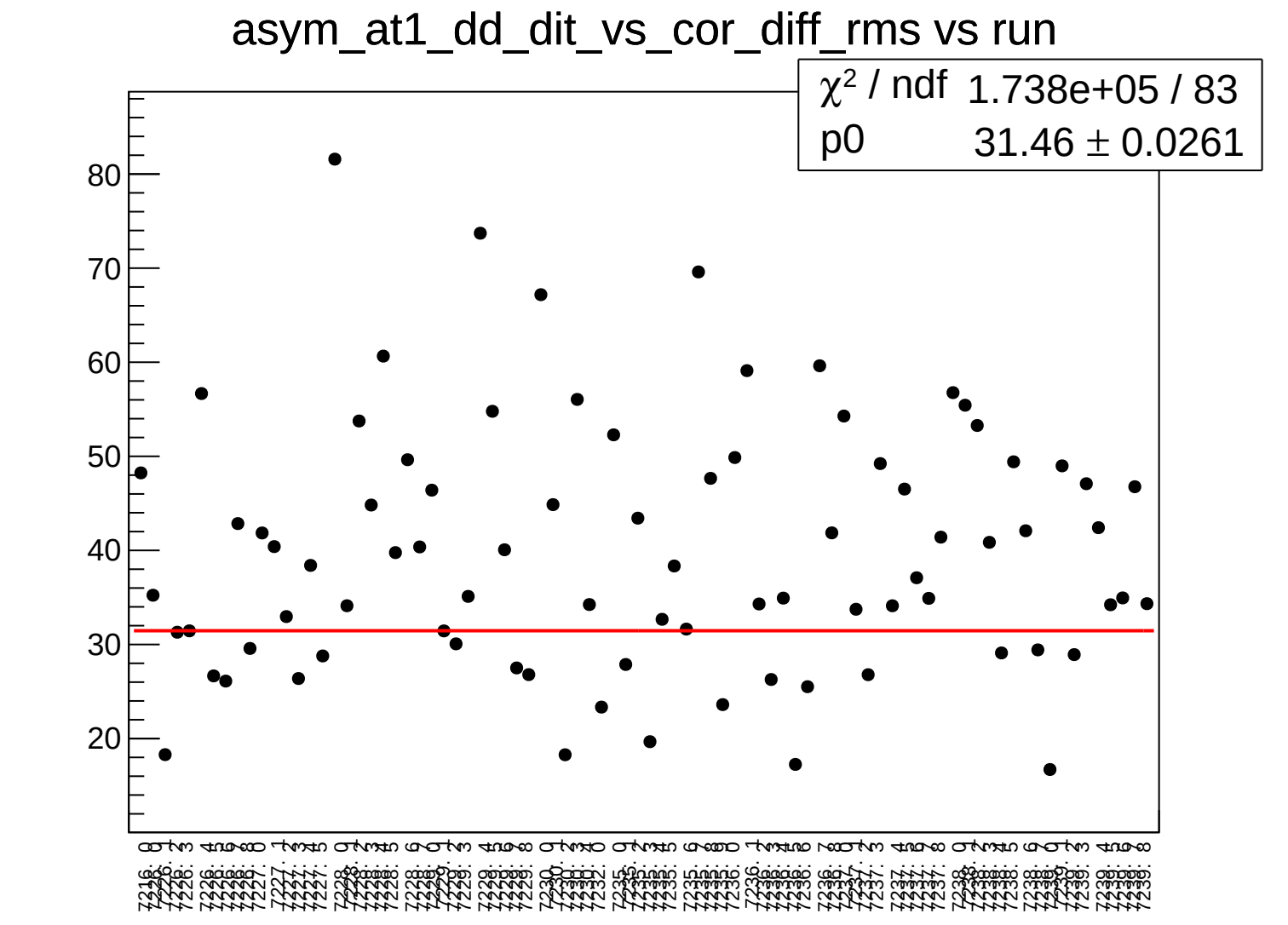

asym_at1_dd_rms vs run
χ^2 / ndf 110.2 / 83
p0 1847 ± 1.449
1900
1880
1860
1840
1820
1800

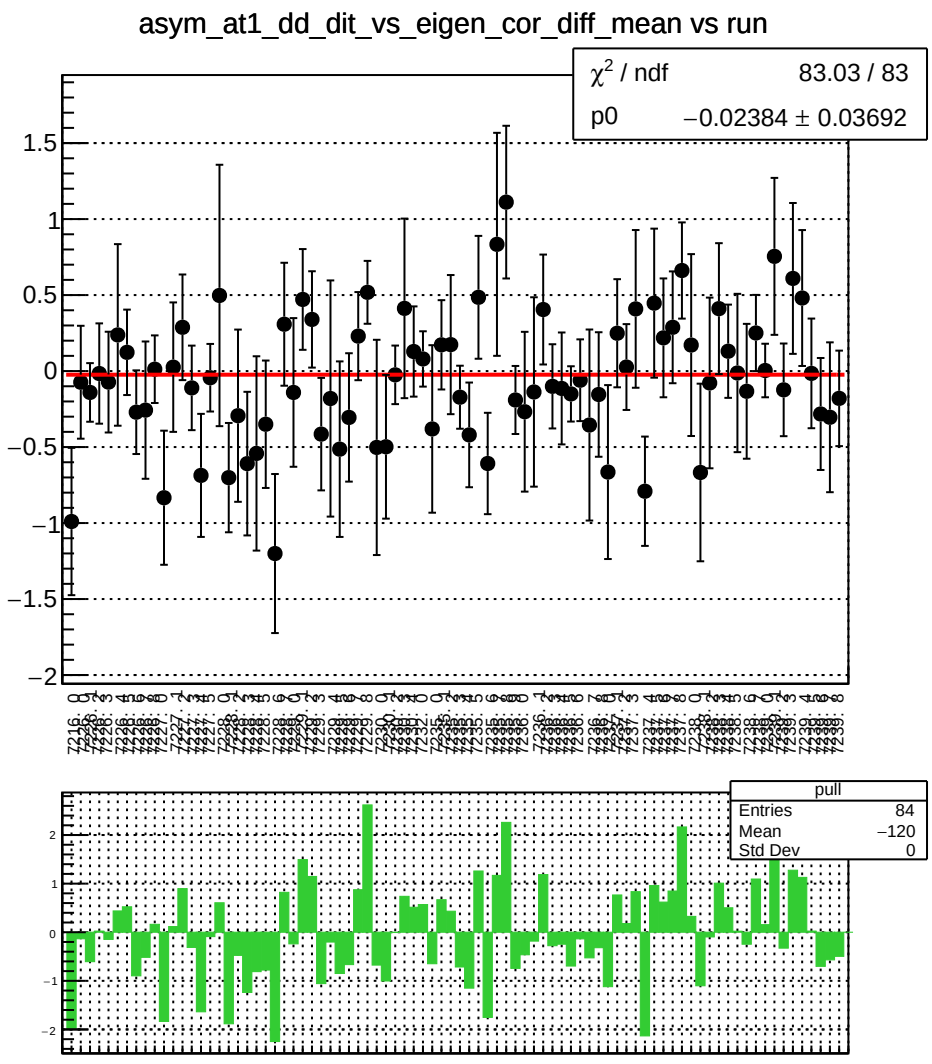

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 91.24 / 83
p0 5.438e−15 ± 1.514e−14
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 84
Mean 6.676
Std Dev 0
2
1
0
−1
−2
−3

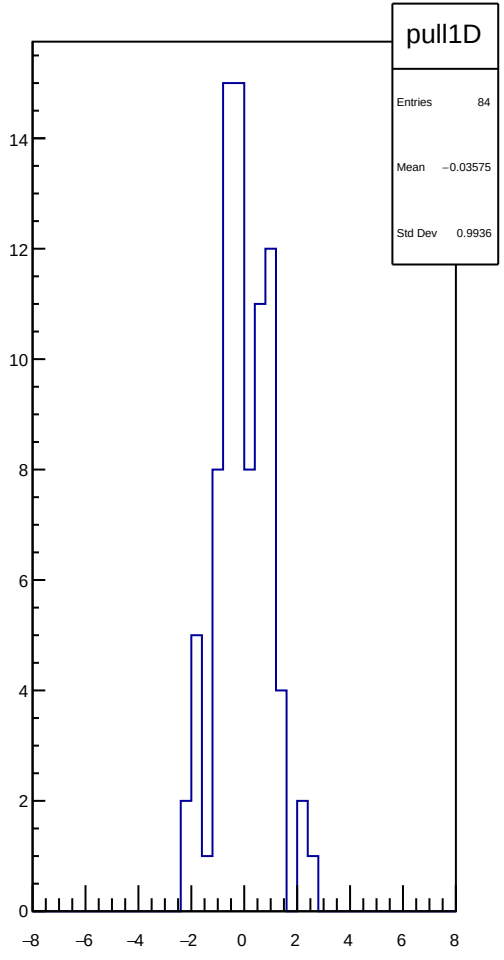

pull1D
Entries 84
Mean 0.09106
Std Dev 1.038
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

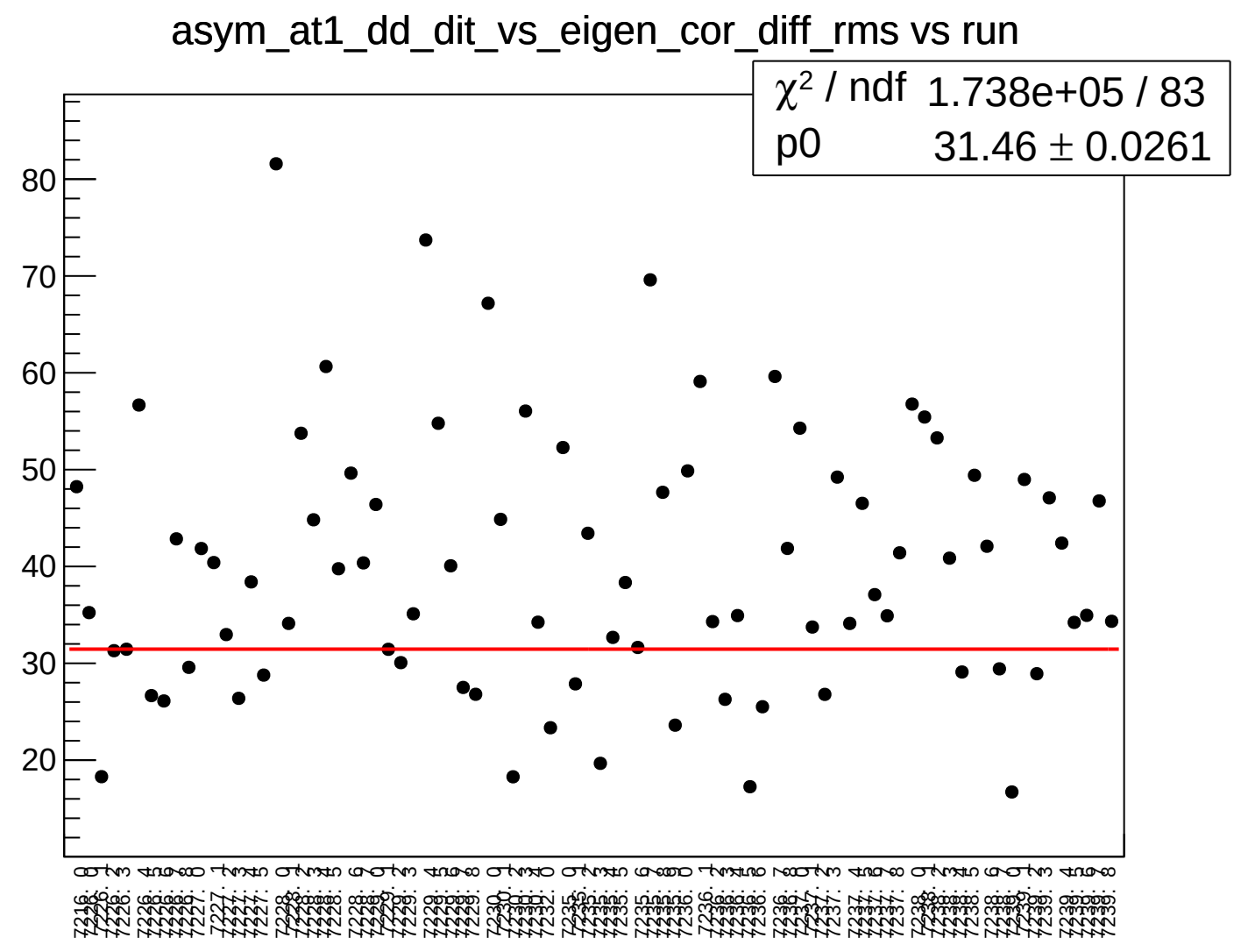

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.232e+06 / 83
p0 6.728e−12 ± 1.071e−14
1.2
1
0.8
0.6
0.4
0.2
0

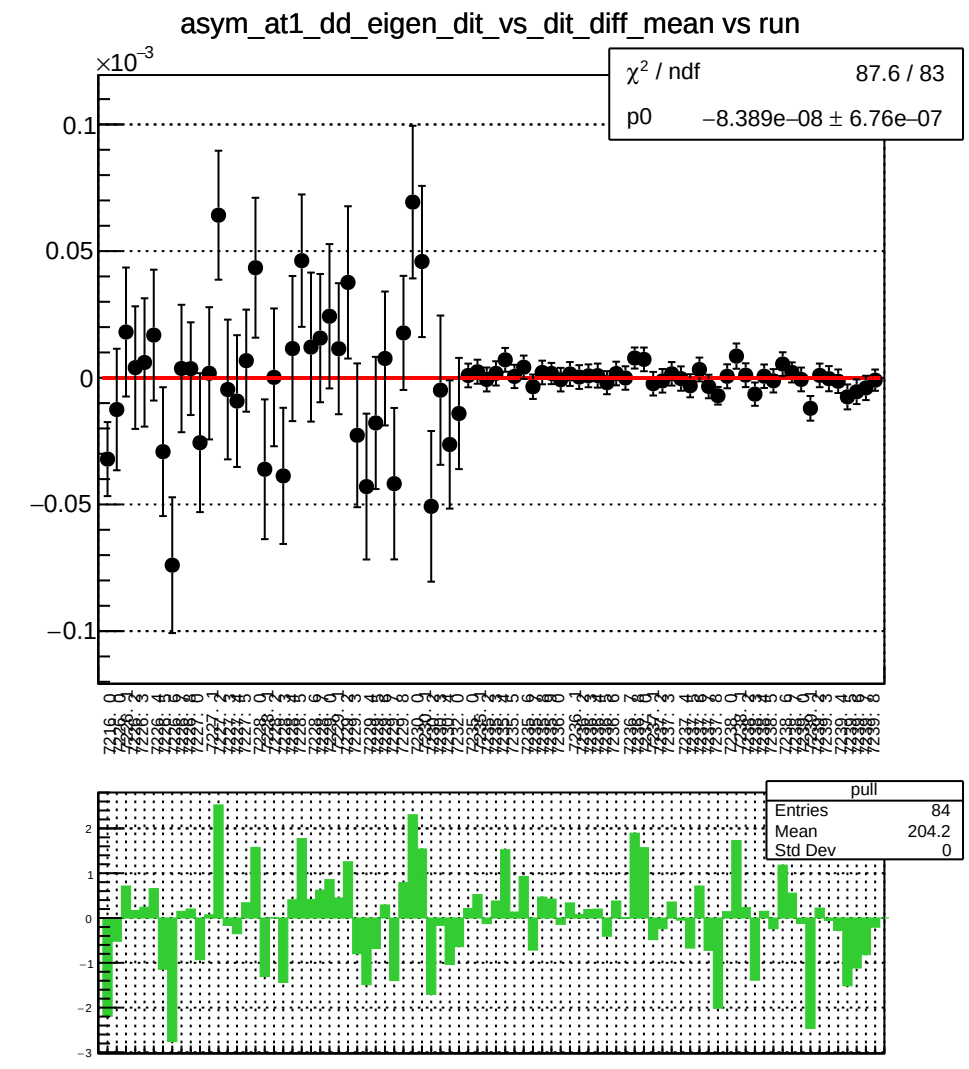

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 83.03 / 83
p0 −0.02384 ± 0.03692
pull
Entries 84
Mean −120
Std Dev 0
pull1D
Entries 84
Mean −0.03575
Std Dev 0.9936

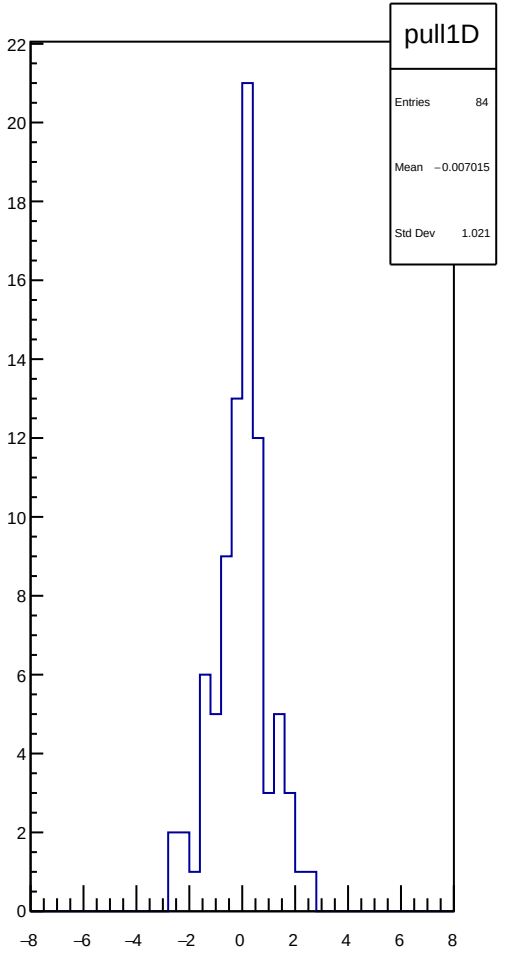

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.738e+05 / 83
p0 31.46 ± 0.0261
80
70
60
50
40
30
20

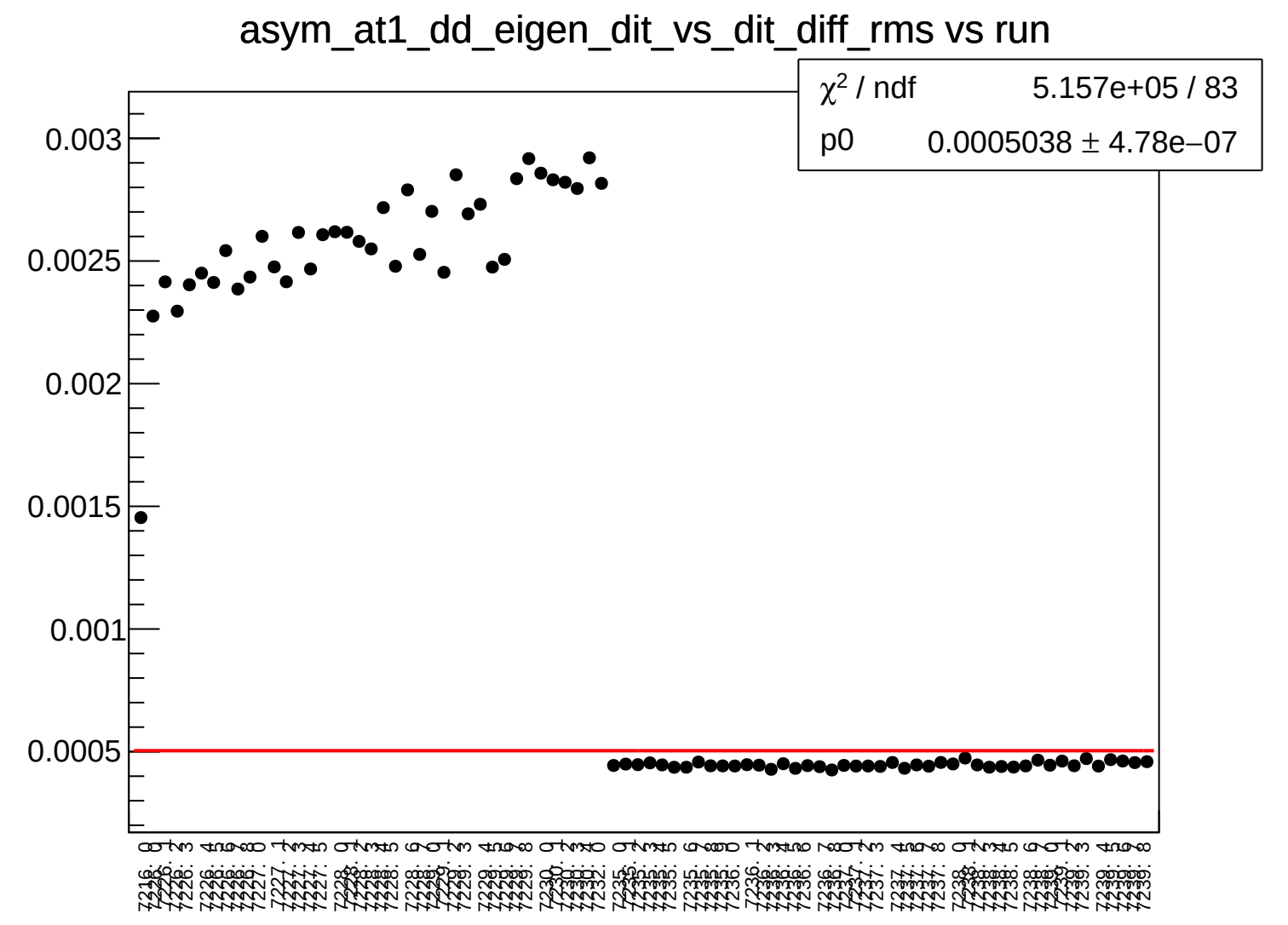

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.03 / 83
p0 −0.02384 ± 0.03692
pull
Entries 84
Mean −120
Std Dev 0

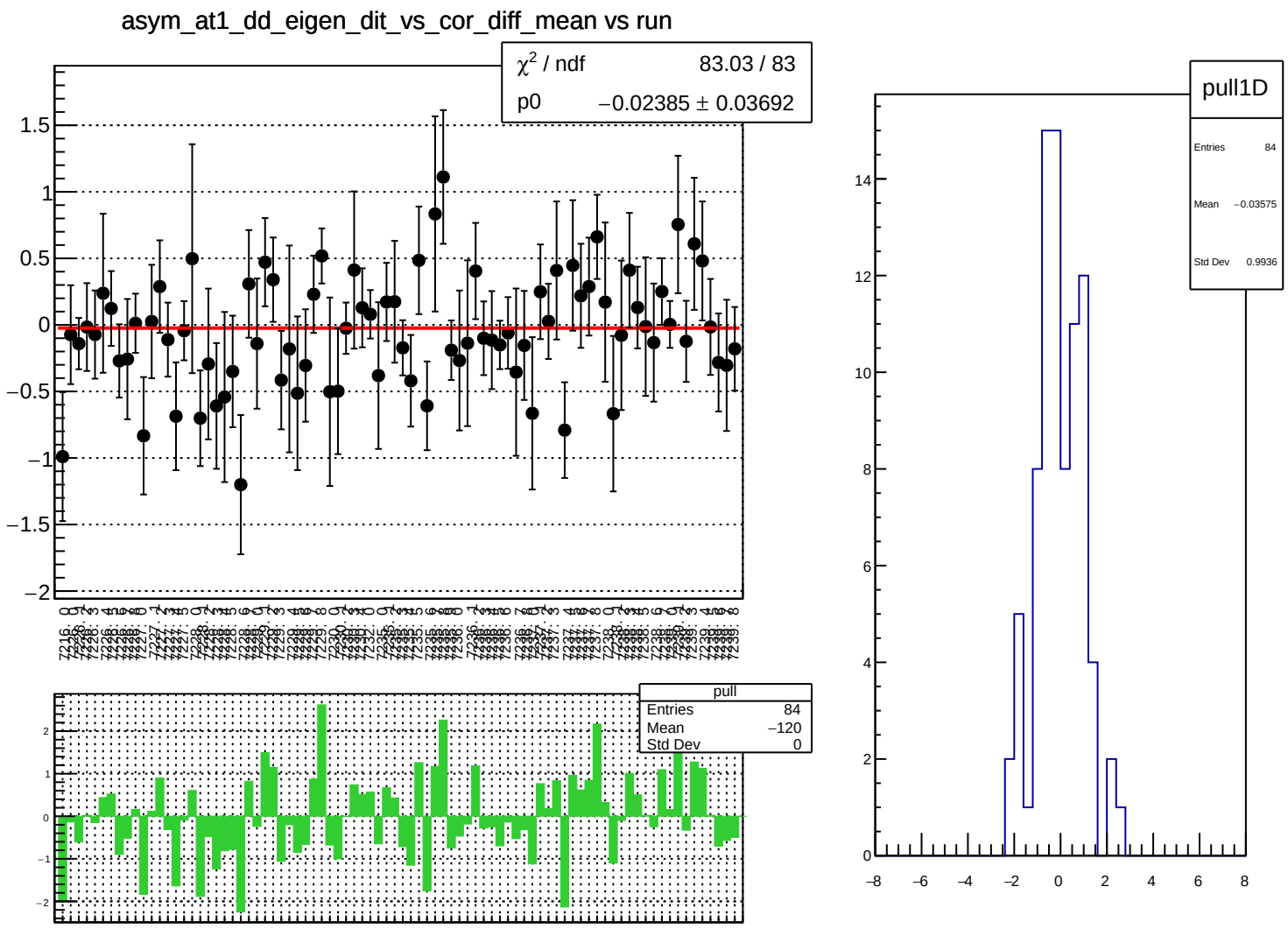

pull1D
Entries 84
Mean −0.03575
Std Dev 0.9936

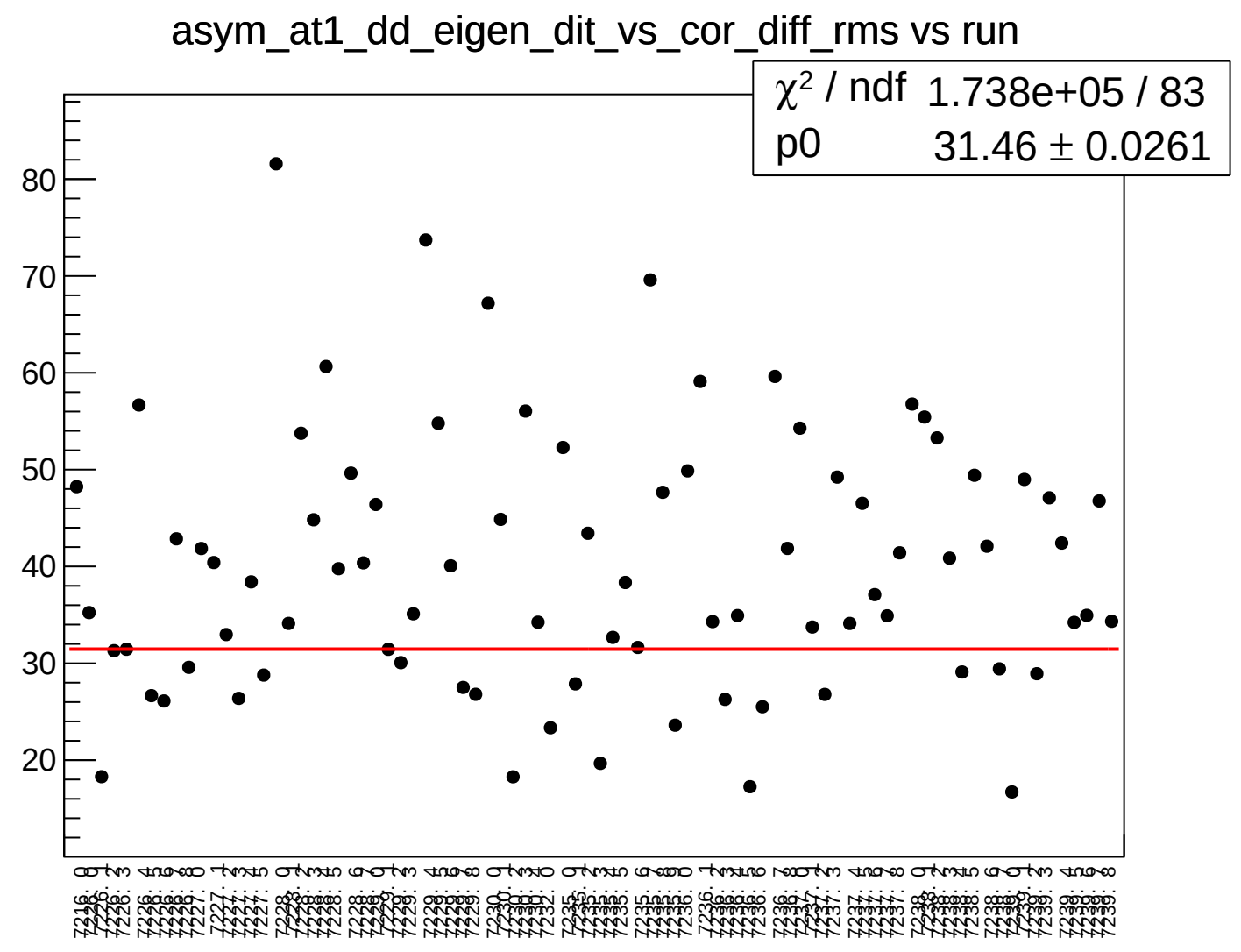

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.738e+05 / 83
p0 31.46 ± 0.0261
80
70
60
50
40
30
20

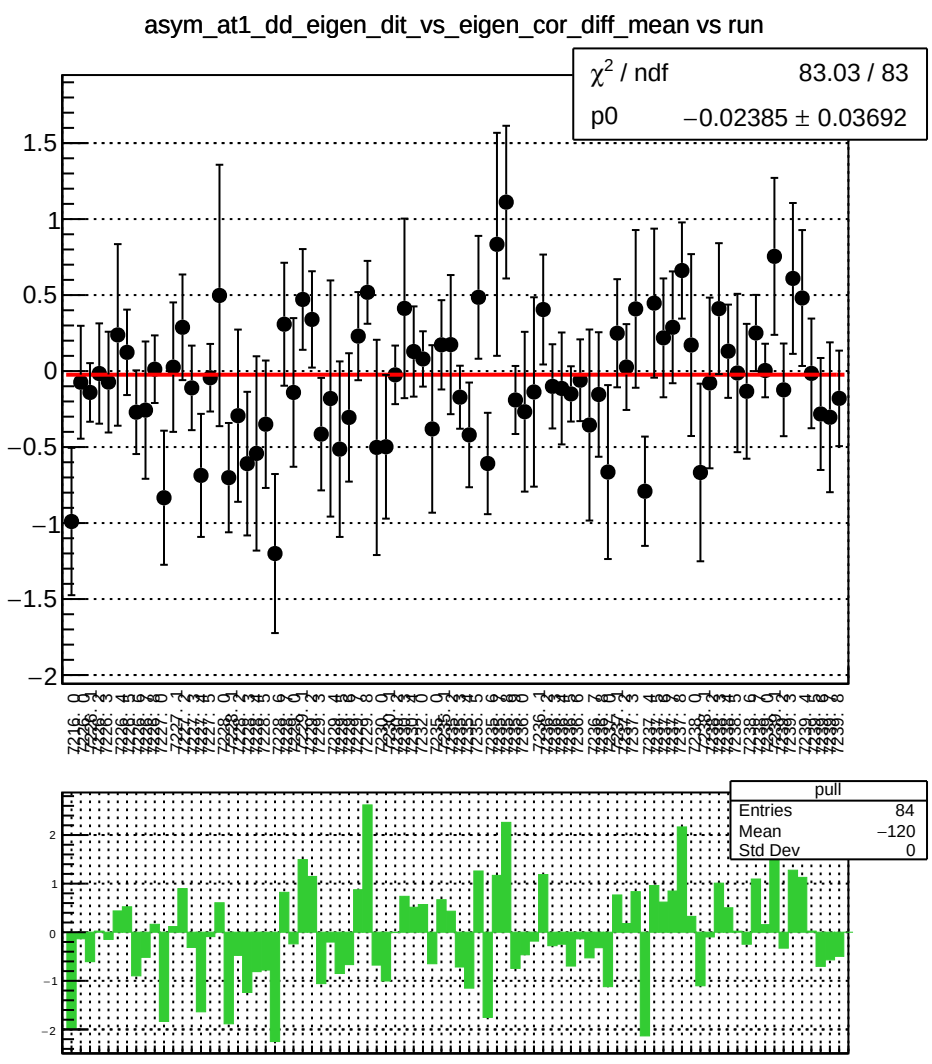

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.6 / 83
p0 −8.389e−08 ± 6.76e−07
0.1
0.05
0
−0.05
−0.1
pull
Entries 84
Mean 204.2
Std Dev 0
2
1
0
−1
−2
−3

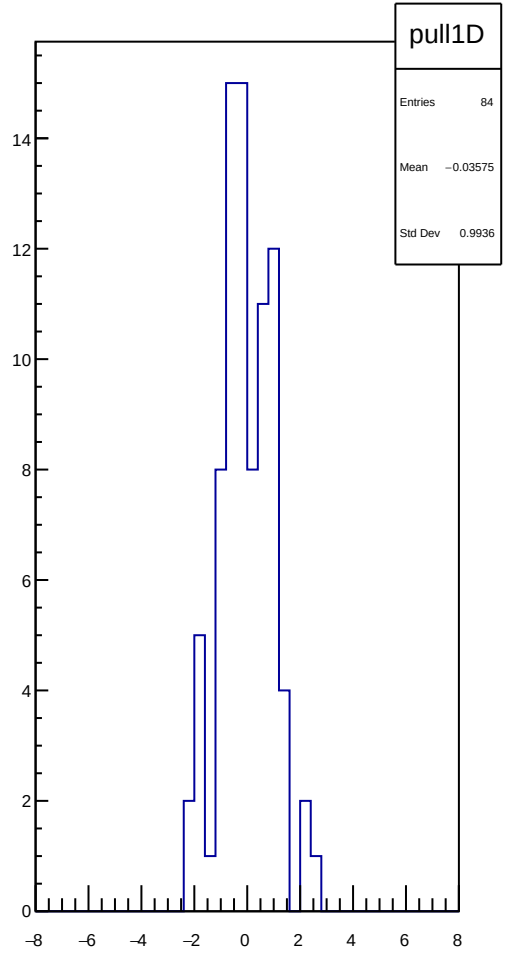

pull1D
Entries 84
Mean −0.007015
Std Dev 1.021
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

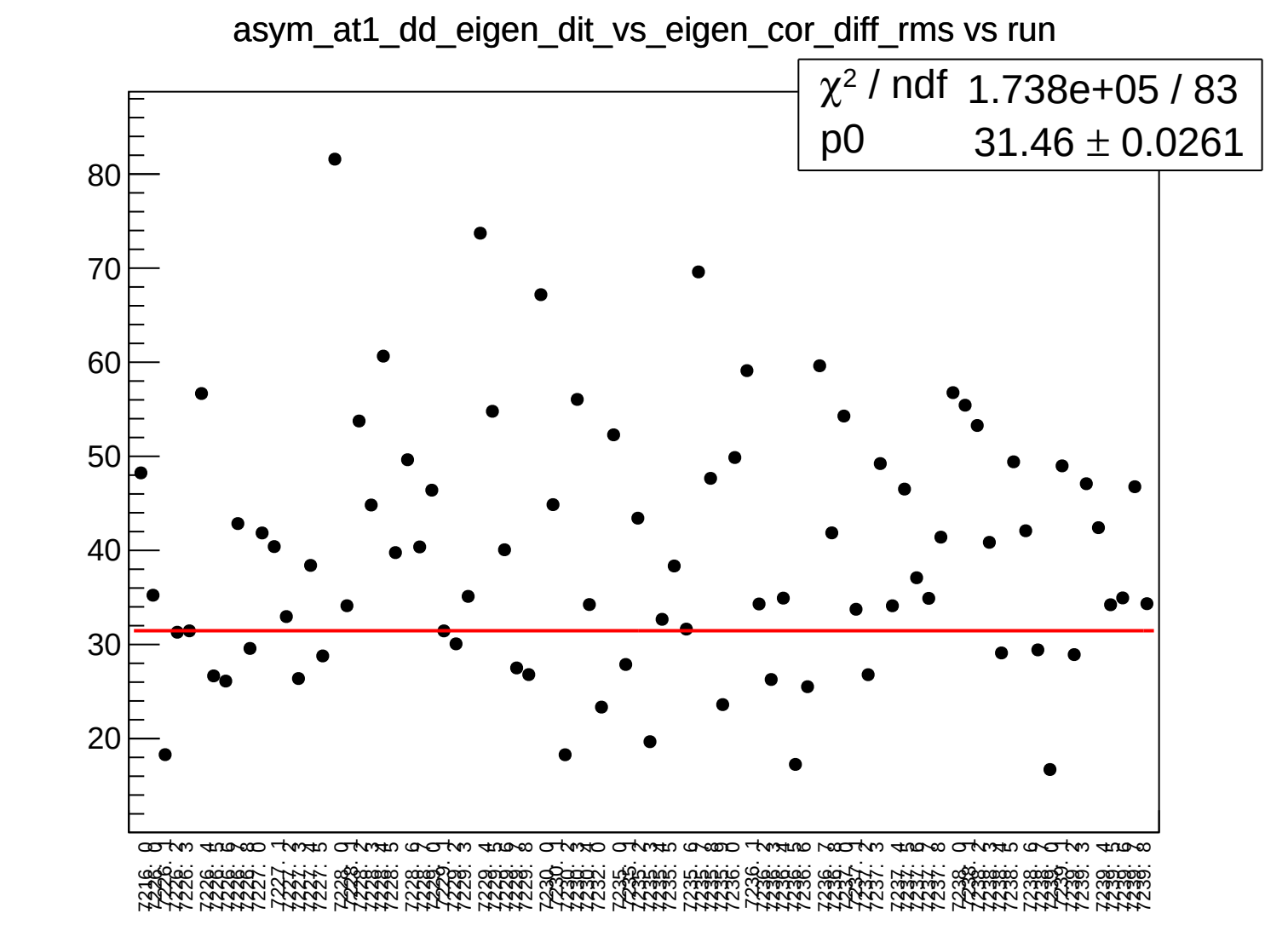

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.157e+05 / 83
p0 0.0005038 ± 4.78e−07
0.003
0.0025
0.002
0.0015
0.001
0.0005

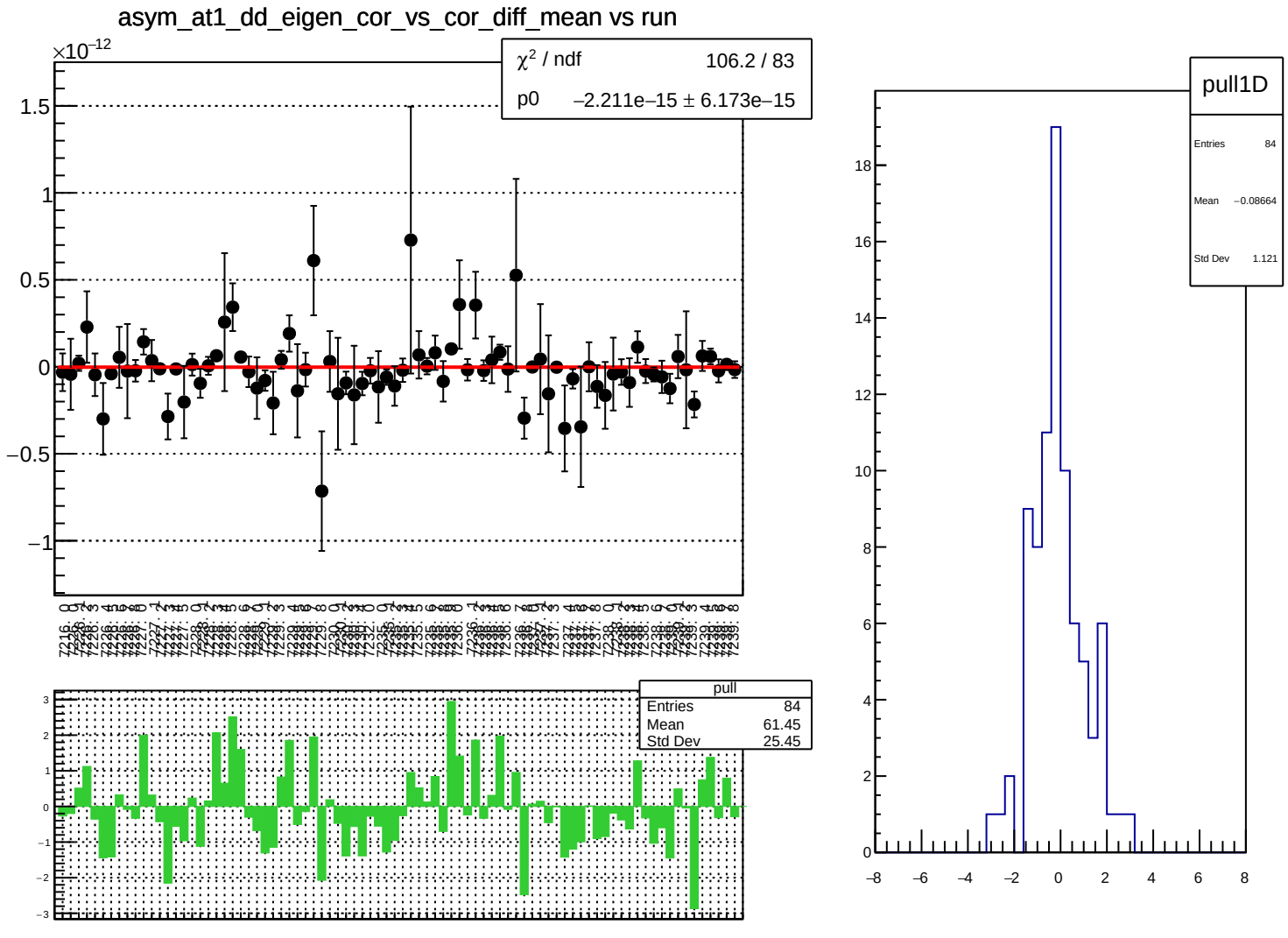

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.03 / 83
p0 −0.02385 ± 0.03692
pull
Entries 84
Mean −120
Std Dev 0
pull1D
Entries 84
Mean −0.03575
Std Dev 0.9936

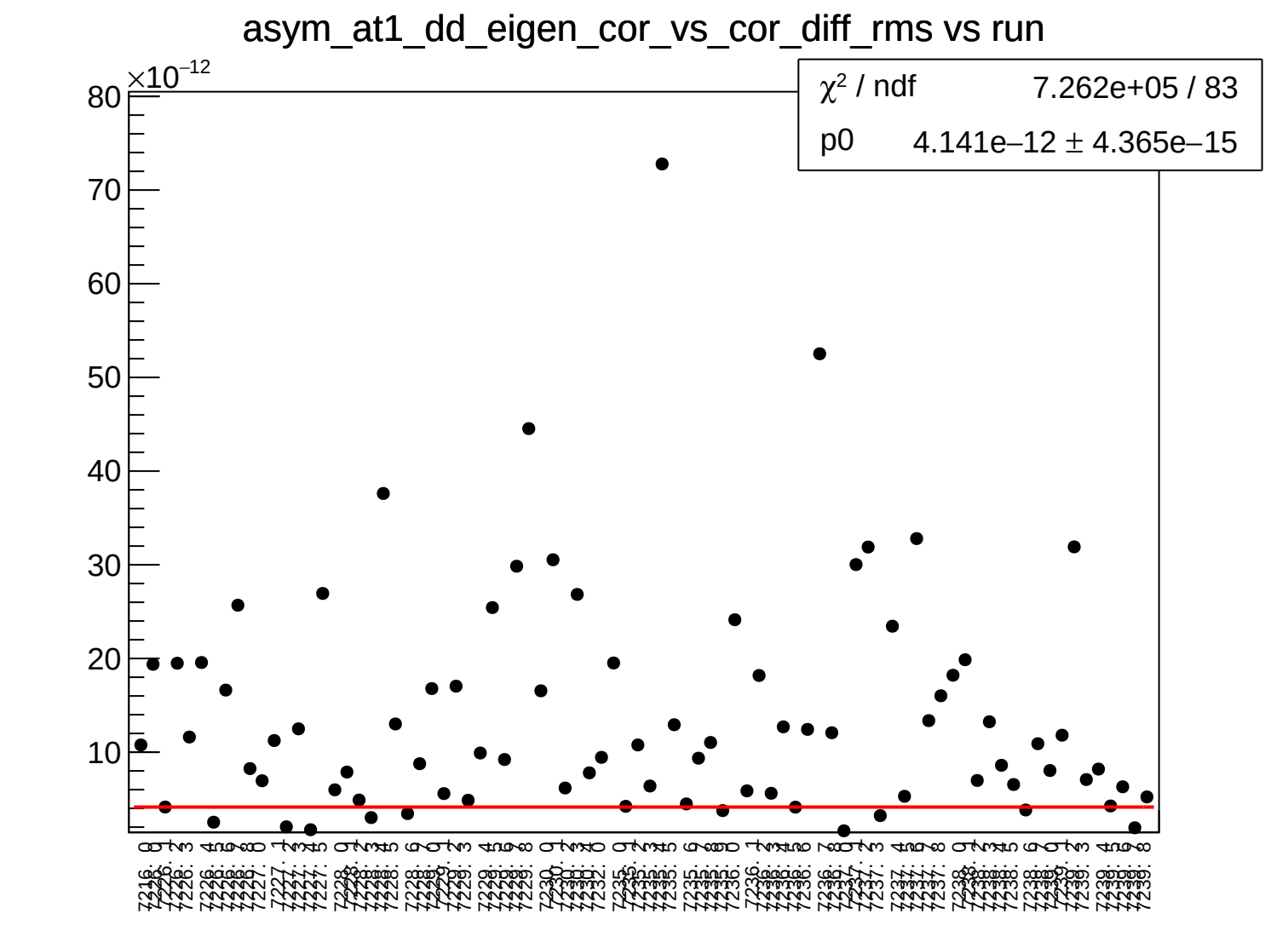

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.738e+05 / 83
p0 31.46 ± 0.0261
80
70
60
50
40
30
20

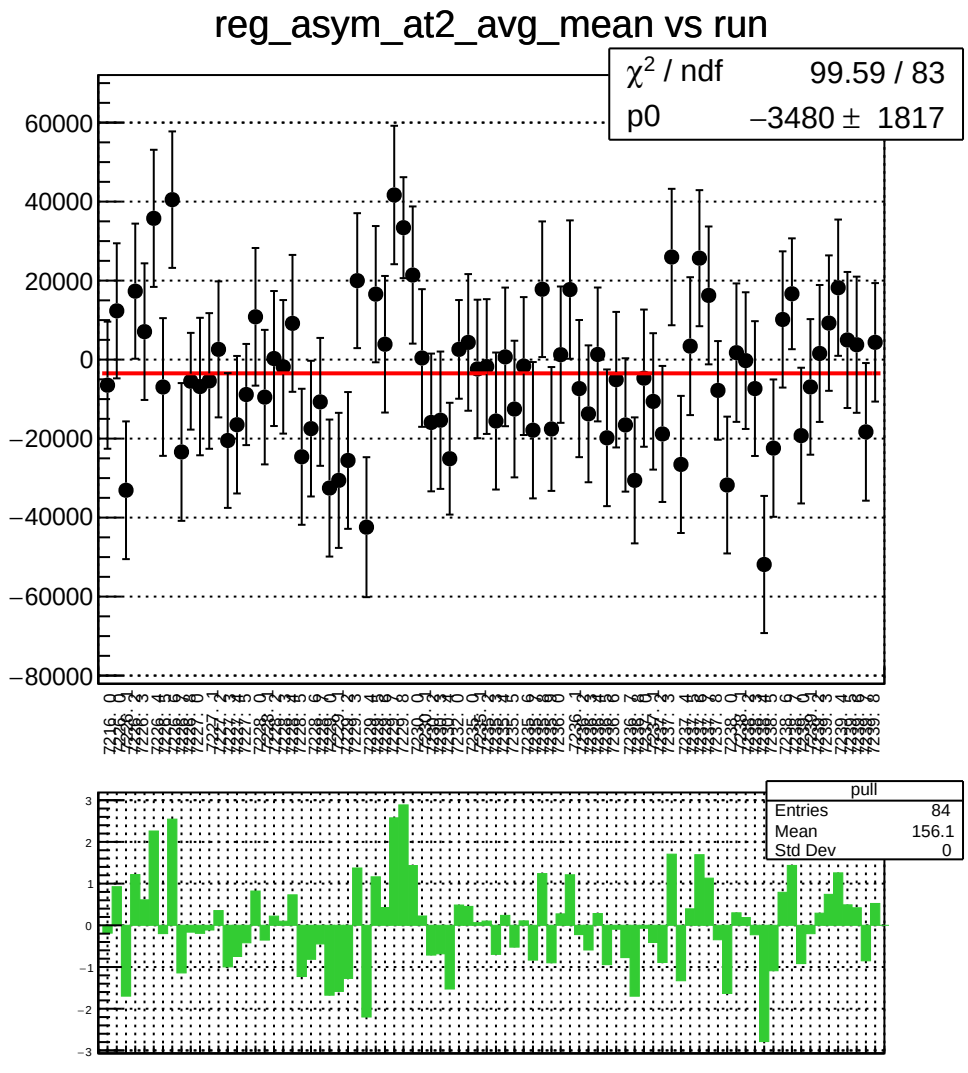

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.03 / 83
p0 −0.02385 ± 0.03692
pull
Entries 84
Mean −120
Std Dev 0

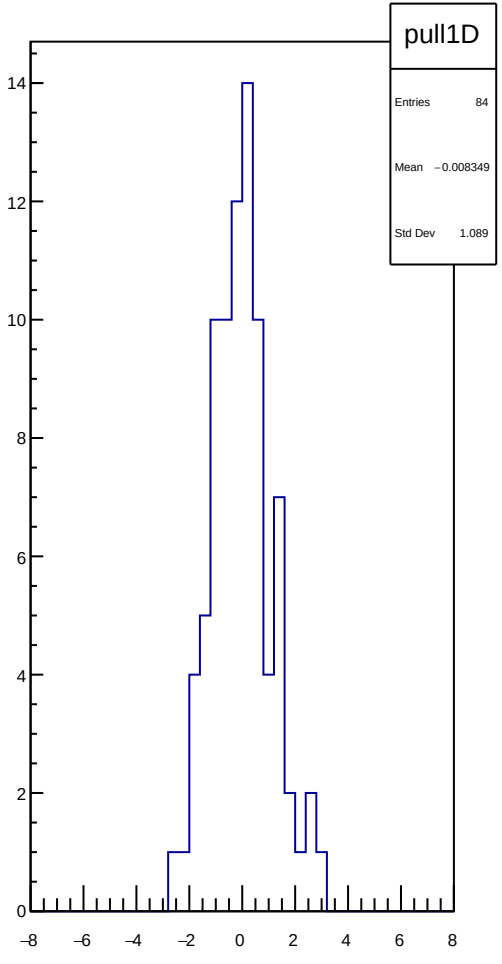

pull1D
Entries 84
Mean −0.03575
Std Dev 0.9936

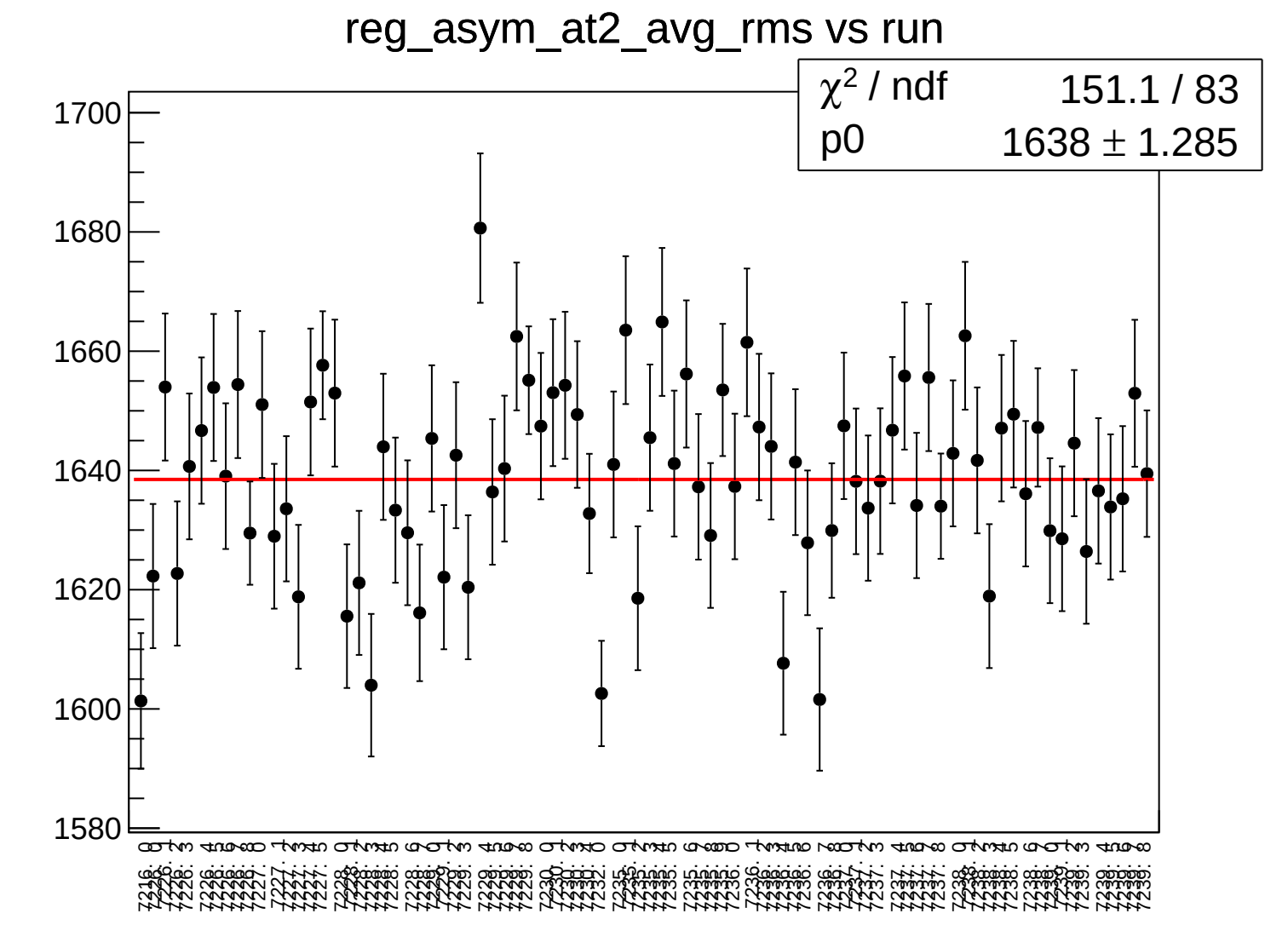

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.738e+05 / 83
p0 31.46 ± 0.0261
80
70
60
50
40
30
20

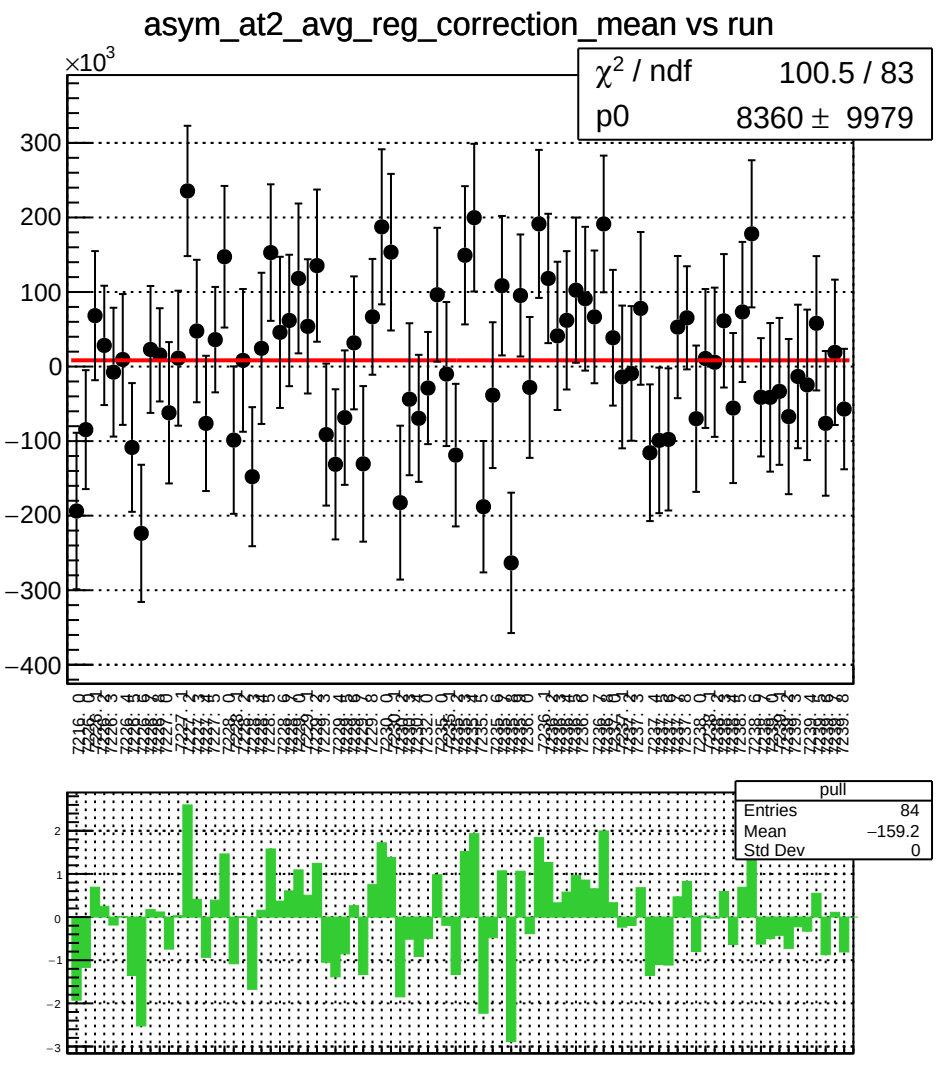

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 106.2 / 83
p0 −2.211e−15 ± 6.173e−15
pull
Entries 84
Mean 61.45
Std Dev 25.45
pull1D
Entries 84
Mean −0.08664
Std Dev 1.121

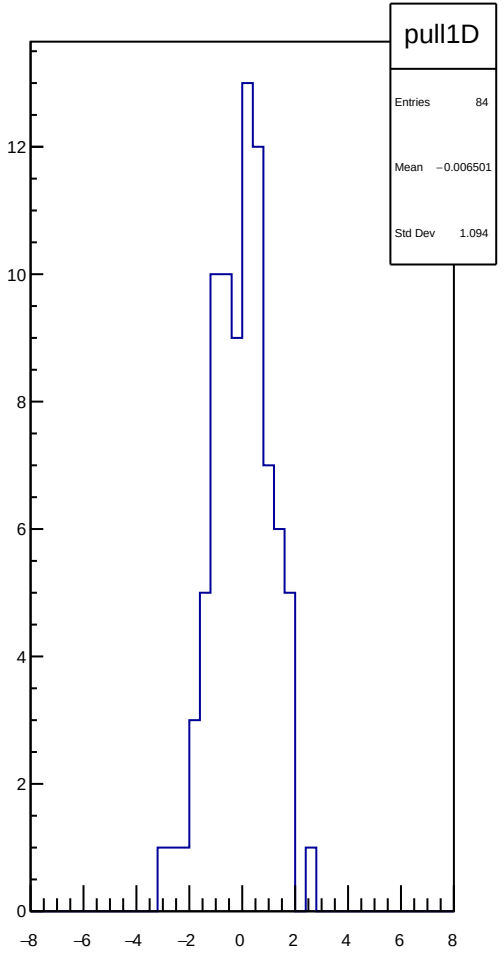

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.262e+05 / 83
p0 4.141e−12 ± 4.365e−15
80
70
60
50
40
30
20
10

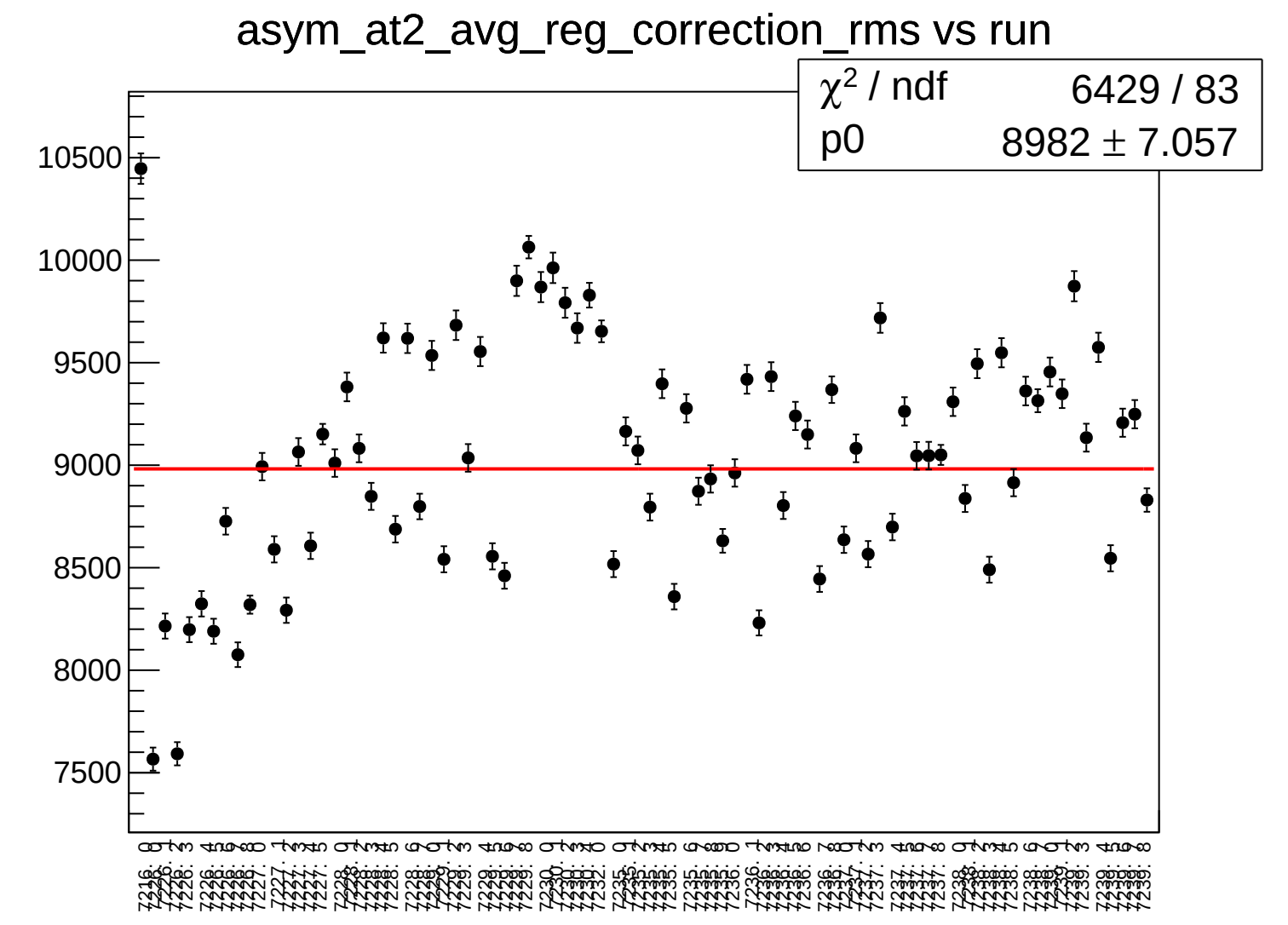

reg_asym_at2_avg_mean vs run
χ² / ndf 99.59 / 83
p0 −3480 ± 1817
pull
Entries 84
Mean 156.1
Std Dev 0

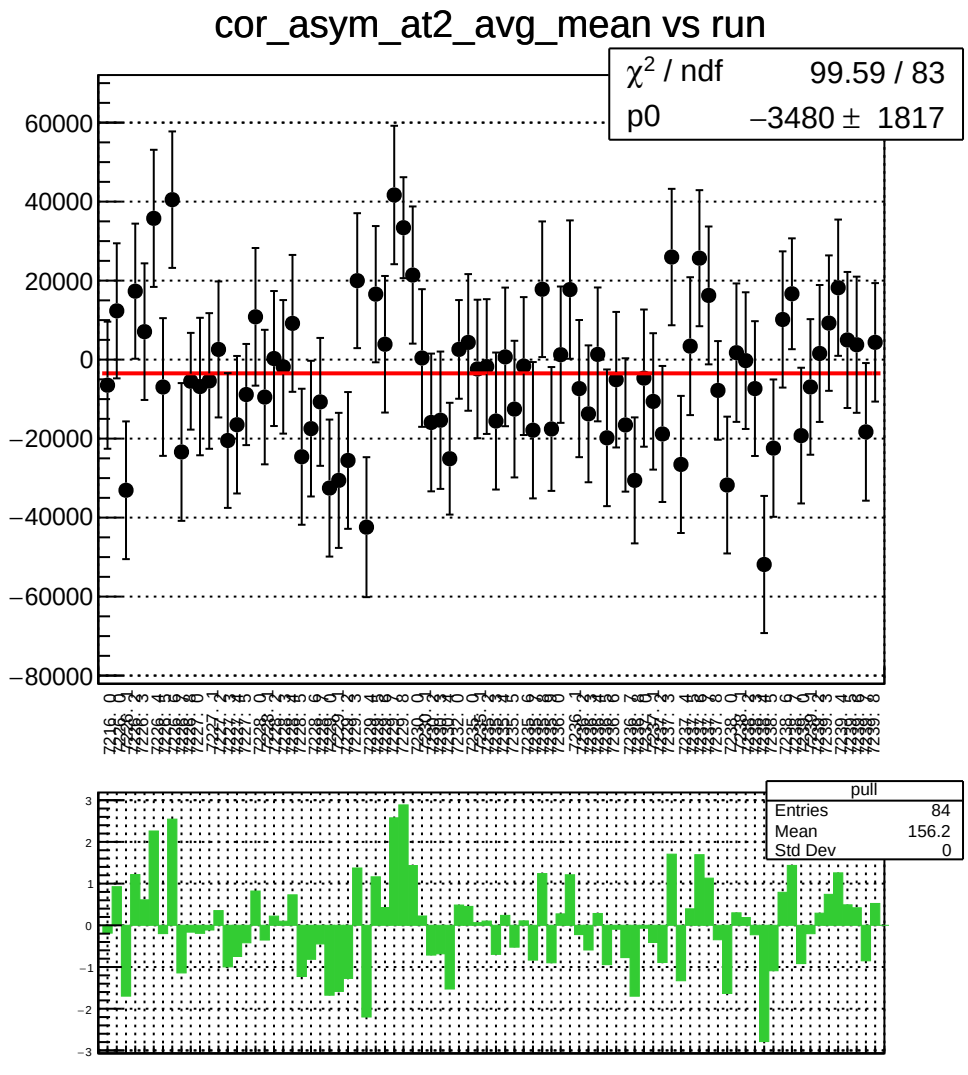

pull1D
Entries 84
Mean −0.008349
Std Dev 1.089

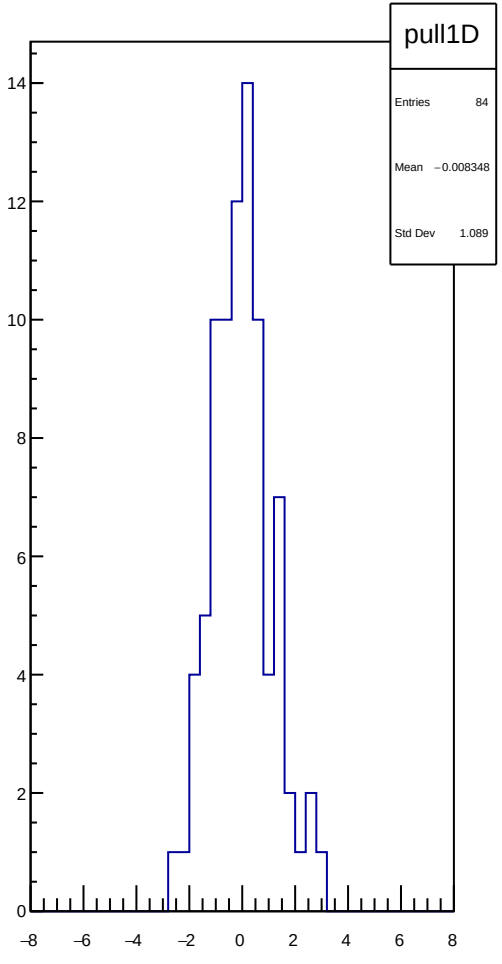

reg_asym_at2_avg_rms vs run
χ^2 / ndf 151.1 / 83
p0 1638 ± 1.285
1700
1680
1660
1640
1620
1600
1580

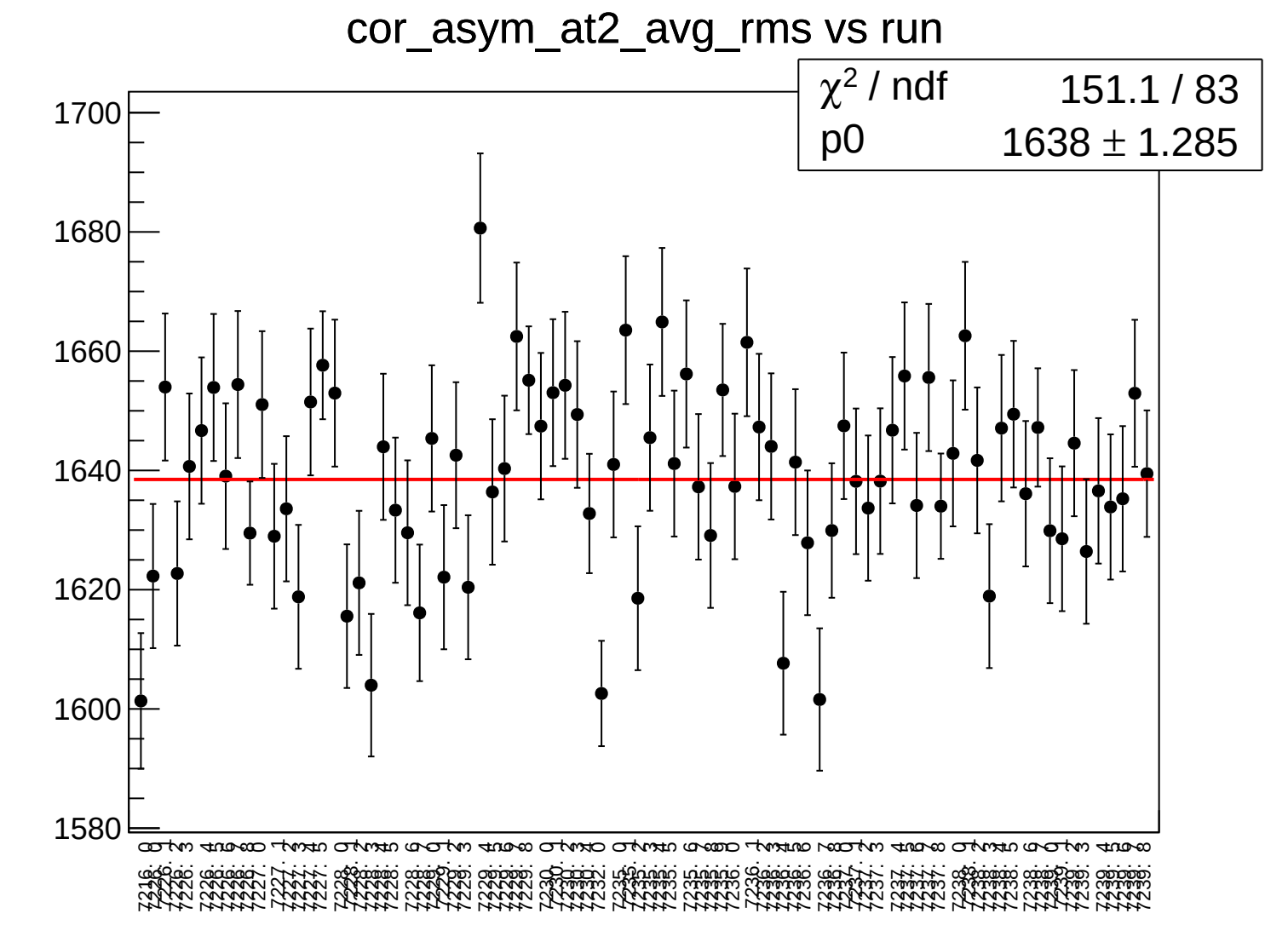

asym_at2_avg_reg_correction_mean vs run
χ² / ndf 100.5 / 83
p0 8360 ± 9979
×10³
pull
Entries 84
Mean −159.2
Std Dev 0

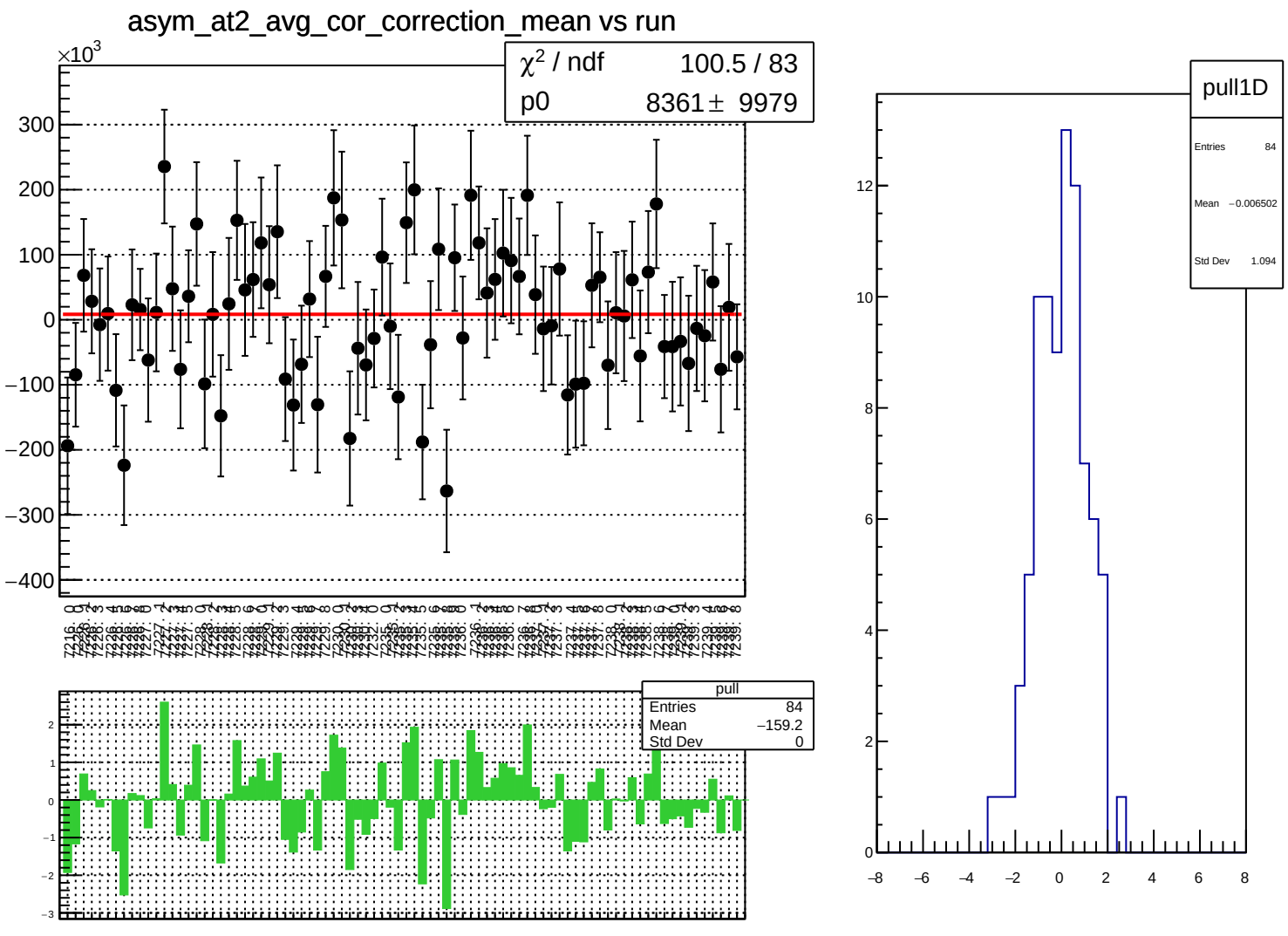

pull1D
Entries 84
Mean −0.006501
Std Dev 1.094

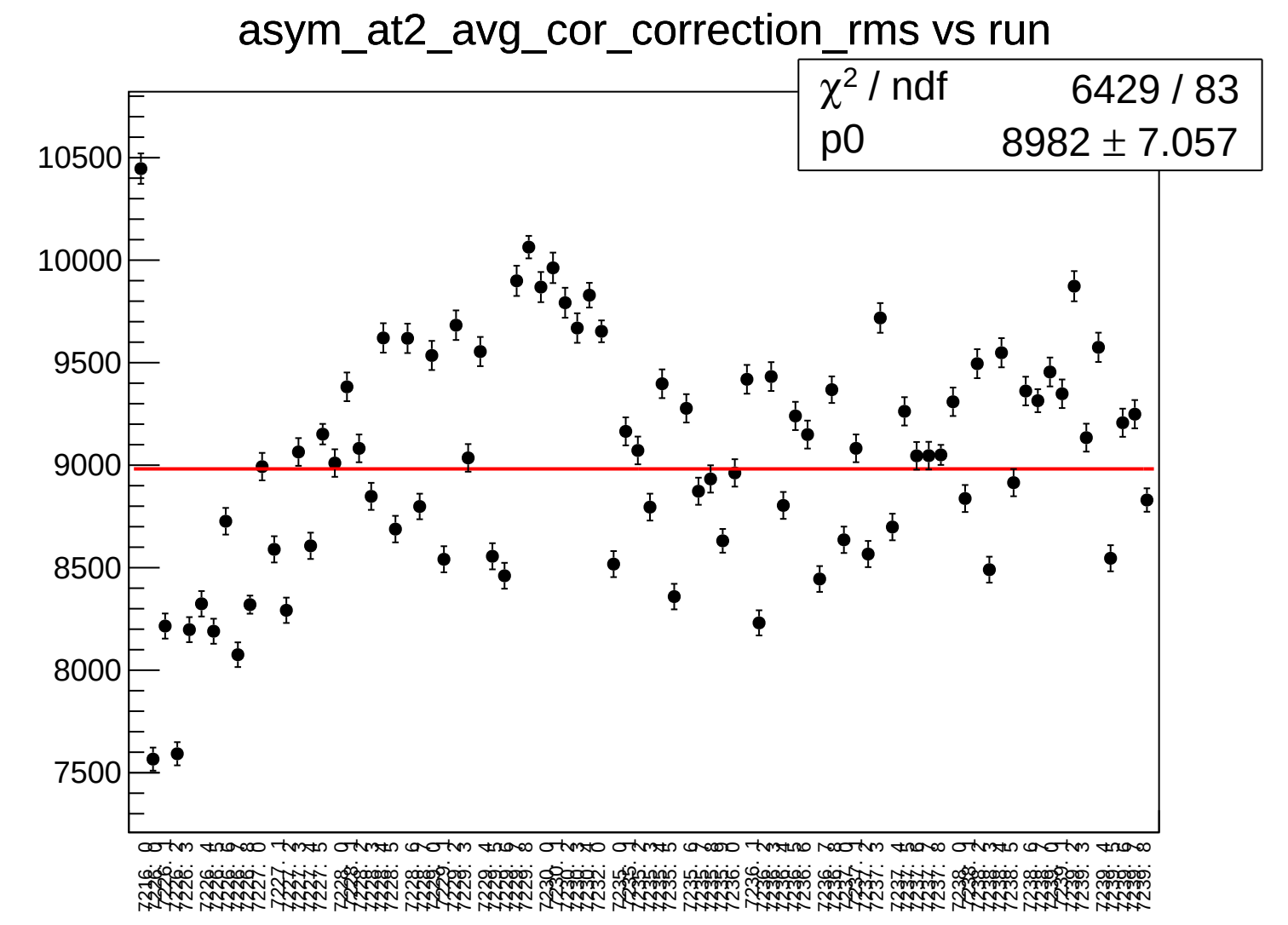

asym_at2_avg_reg_correction_rms vs run
χ² / ndf 6429 / 83
p0 8982 ± 7.057
10500
10000
9500
9000
8500
8000
7500

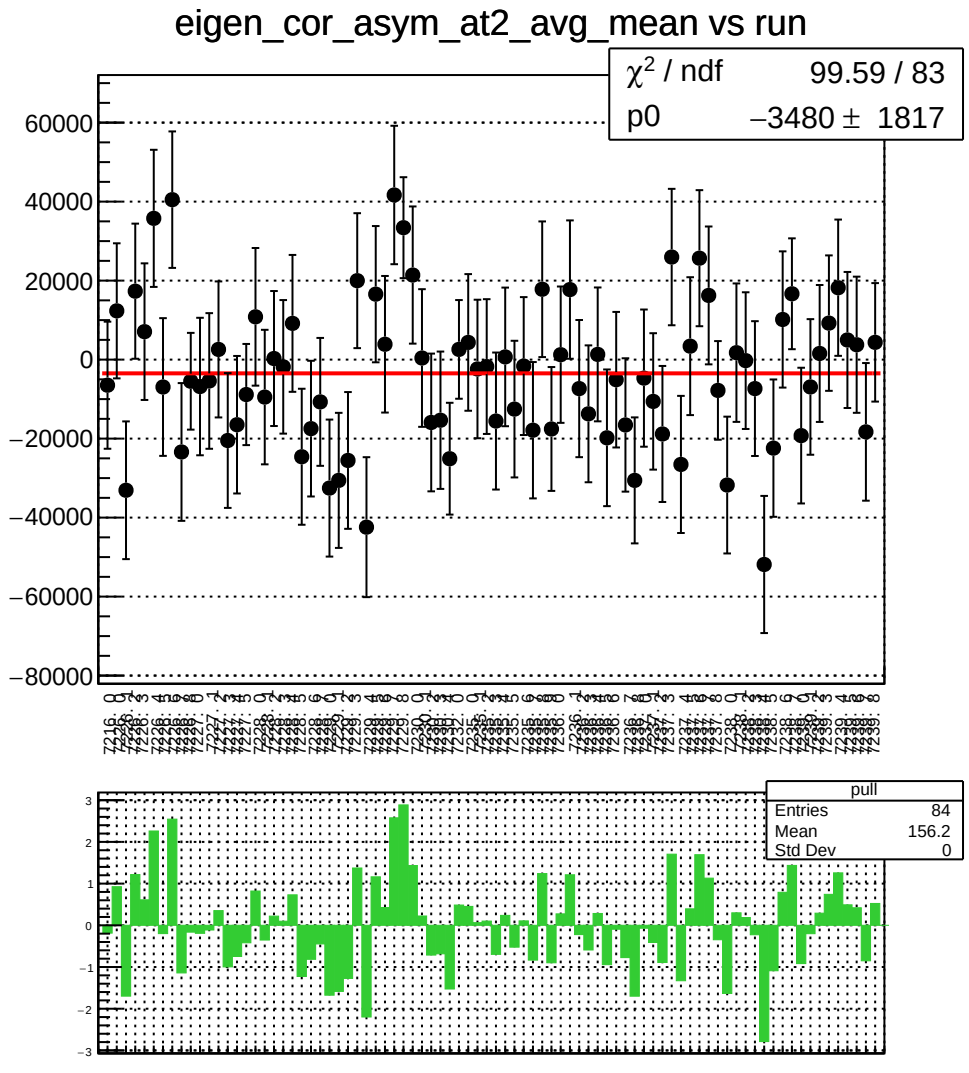

cor_asym_at2_avg_mean vs run
χ² / ndf 99.59 / 83
p0 −3480 ± 1817
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean 156.2
Std Dev 0
3
2
1
0
−1
−2
−3

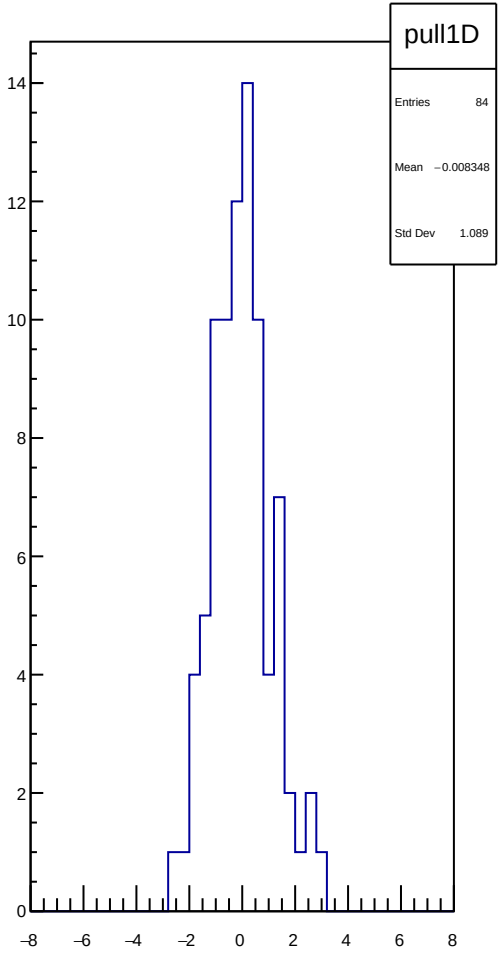

pull1D
Entries 84
Mean −0.008348
Std Dev 1.089
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

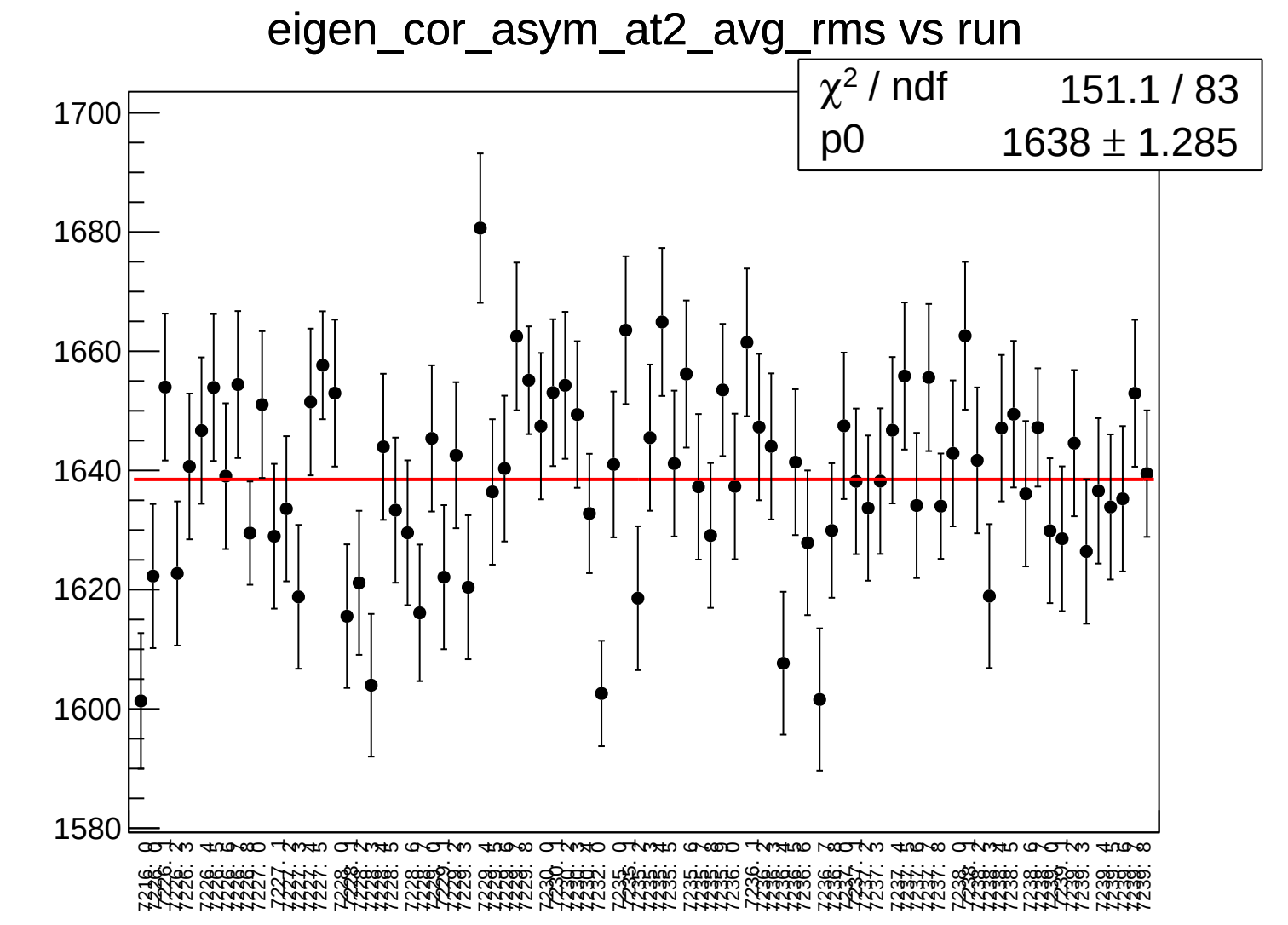

cor_asym_at2_avg_rms vs run
χ² / ndf 151.1 / 83
p0 1638 ± 1.285
1700
1680
1660
1640
1620
1600
1580

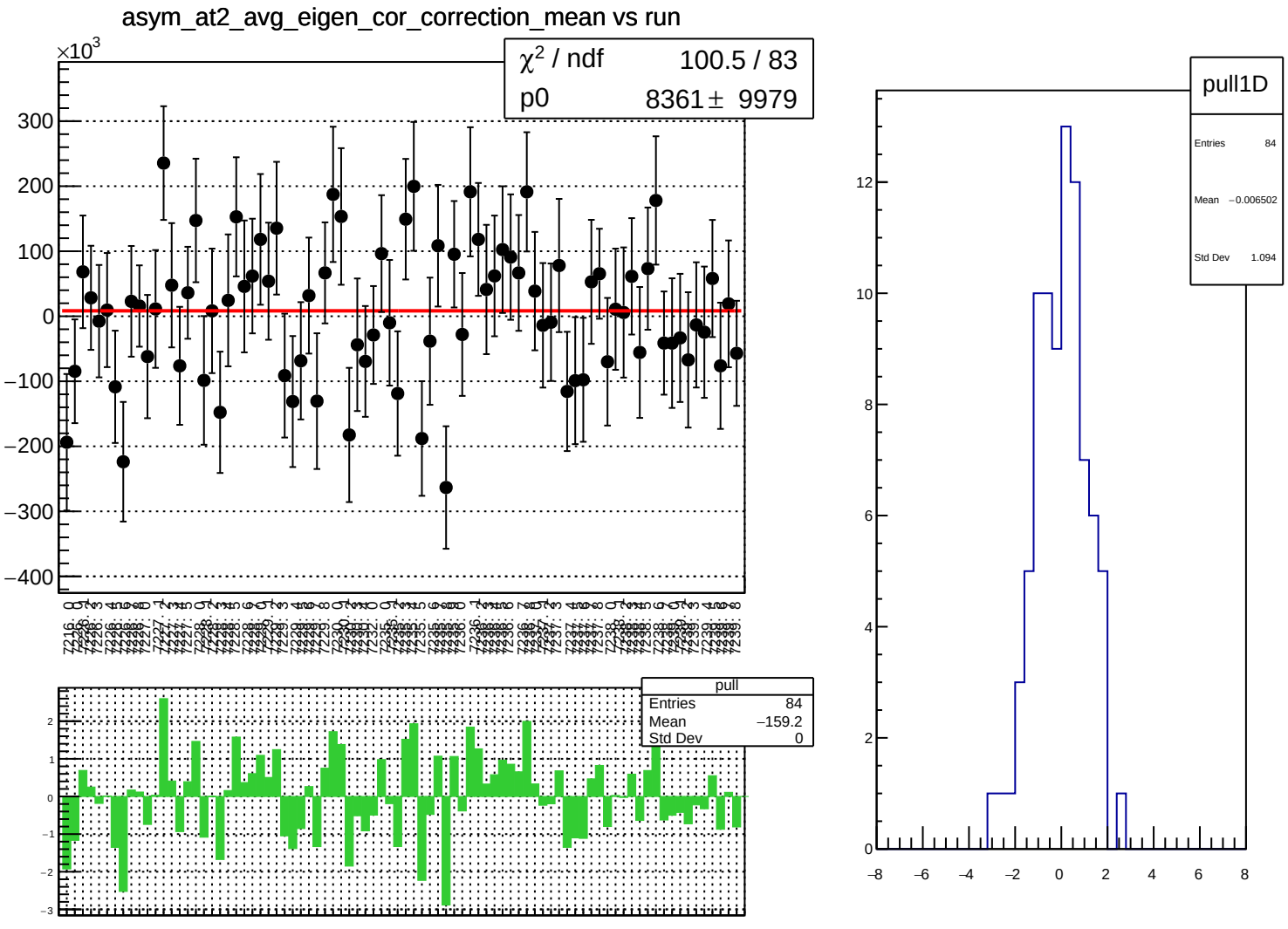

asym_at2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 100.5 / 83
p0 8361 ± 9979
pull
Entries 84
Mean −159.2
Std Dev 0
pull1D
Entries 84
Mean −0.006502
Std Dev 1.094

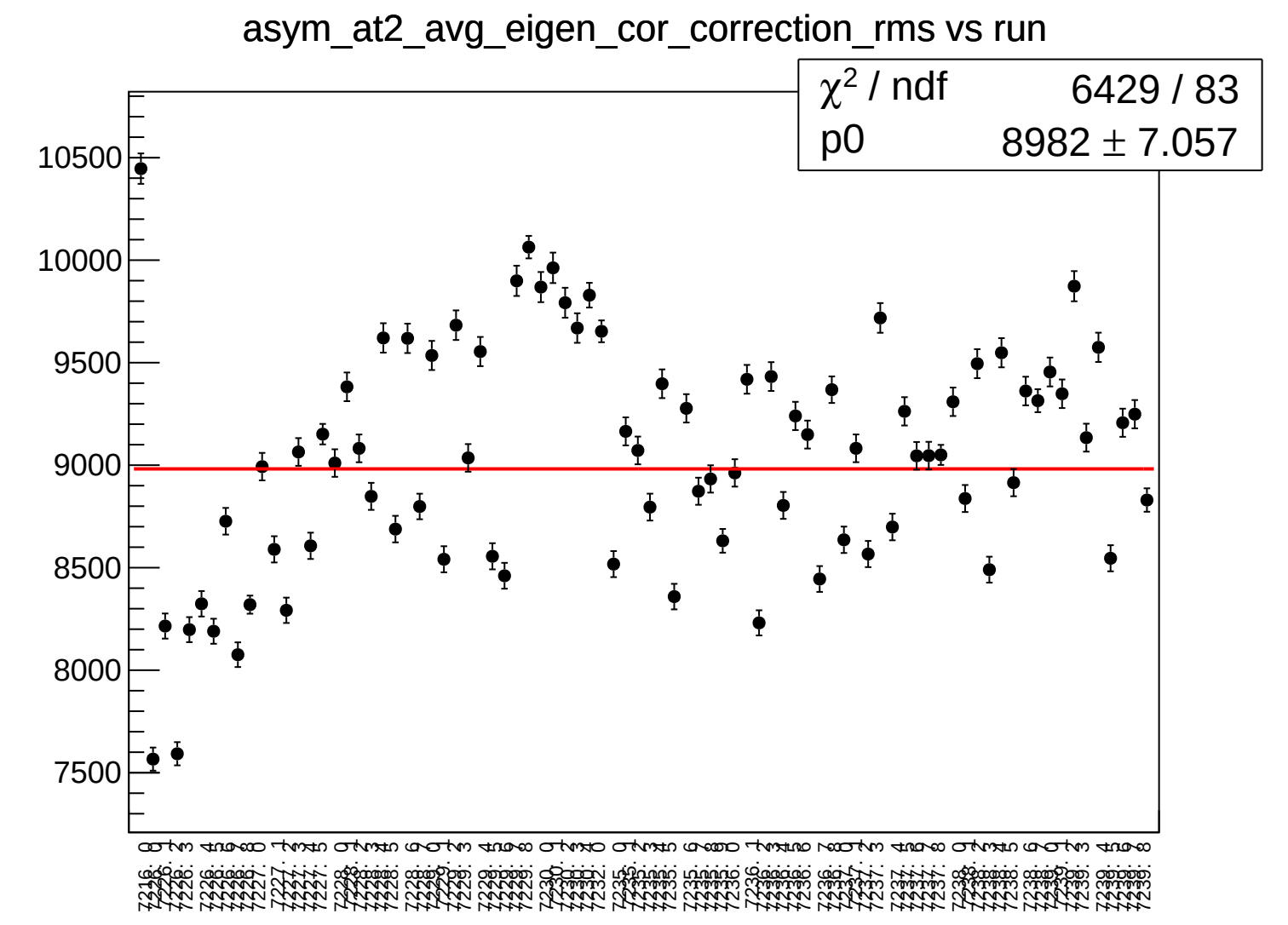

asym_at2_avg_cor_correction_rms vs run
χ^2 / ndf 6429 / 83
p0 8982 ± 7.057
10500
10000
9500
9000
8500
8000
7500

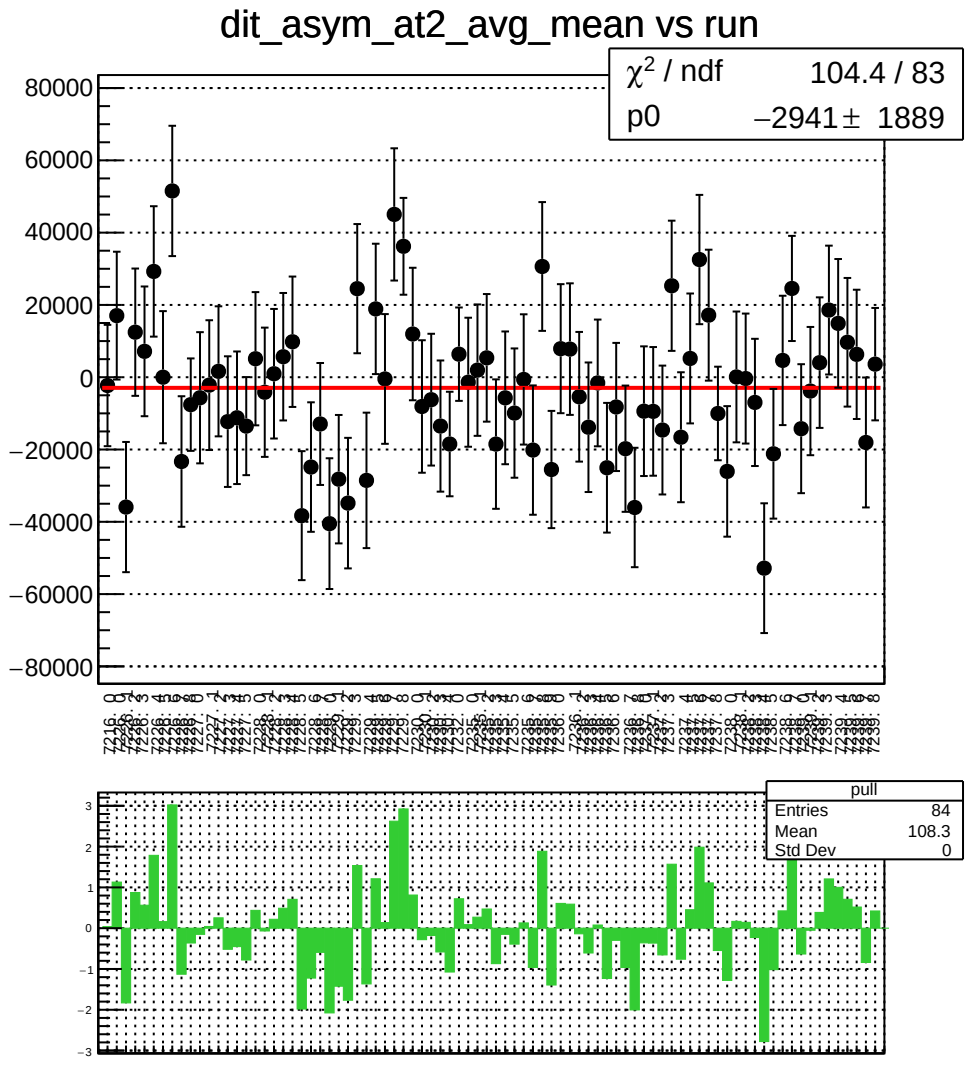

eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 99.59 / 83
p0 −3480 ± 1817
pull
Entries 84
Mean 156.2
Std Dev 0

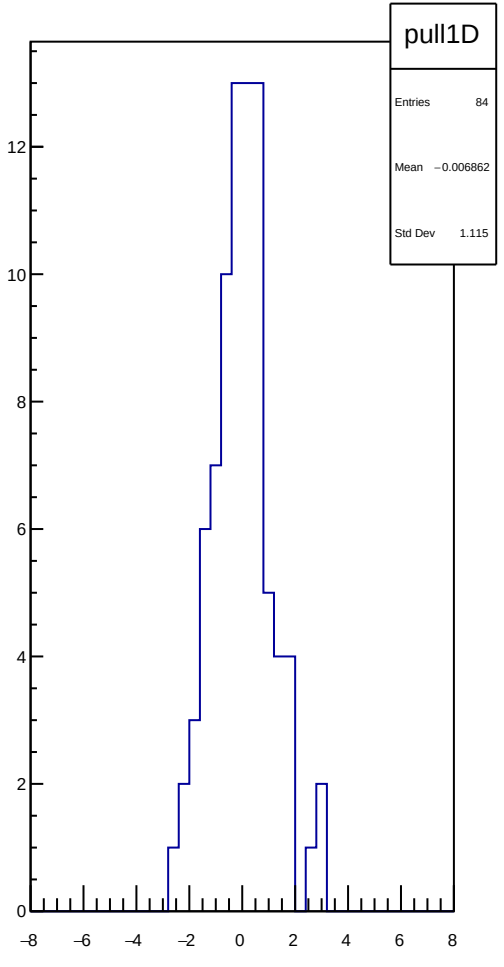

pull1D
Entries 84
Mean −0.008348
Std Dev 1.089

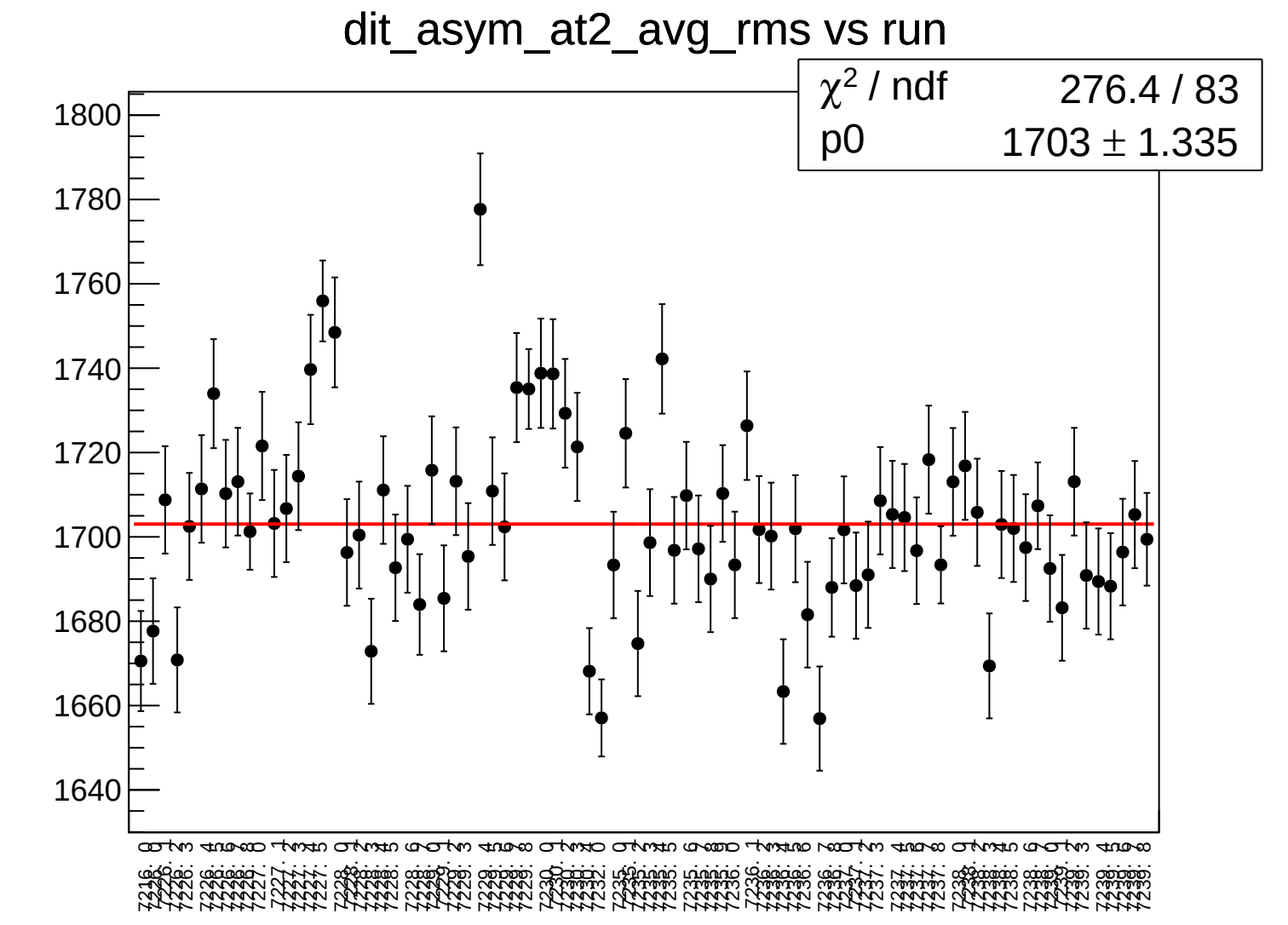

eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 151.1 / 83
p0 1638 ± 1.285
1700
1680
1660
1640
1620
1600
1580

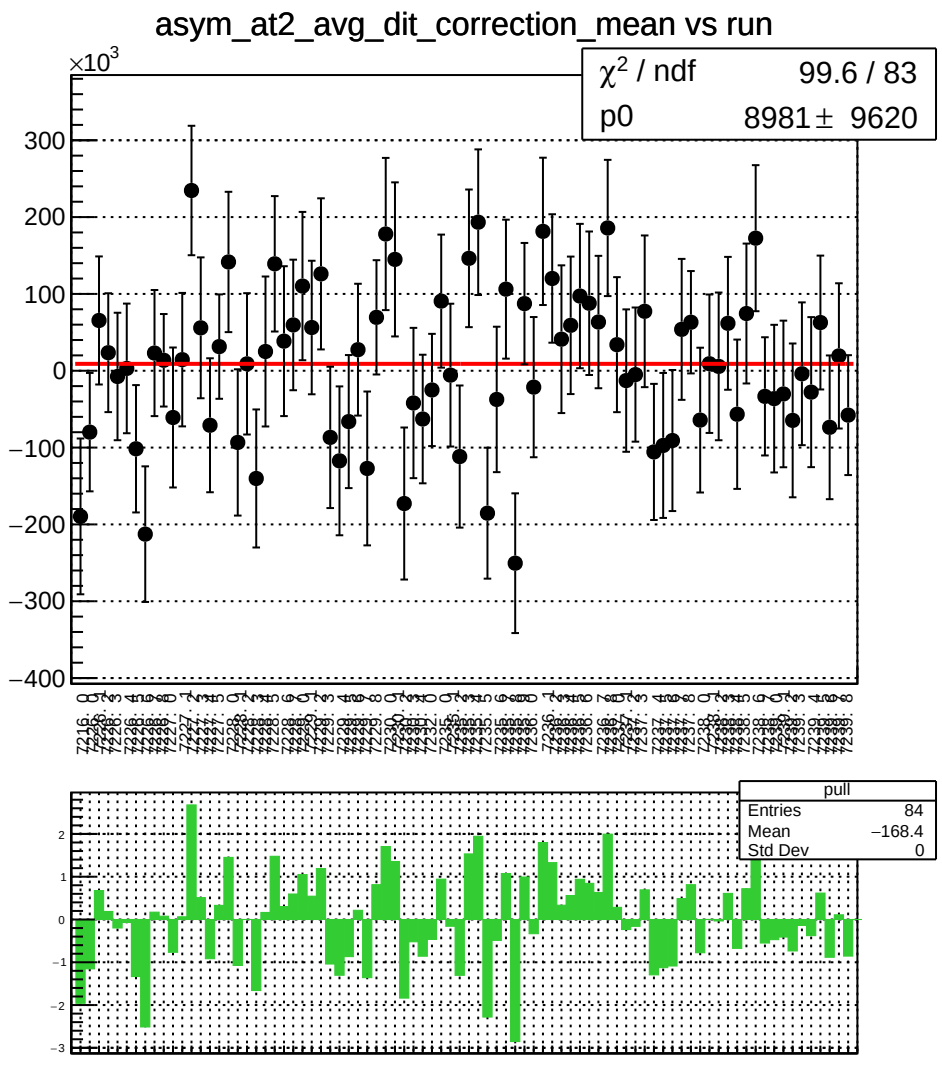

asym_at2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 100.5 / 83
p0 8361 ± 9979
300
200
100
0
−100
−200
−300
−400
pull
Entries 84
Mean −159.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean −0.006502
Std Dev 1.094
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

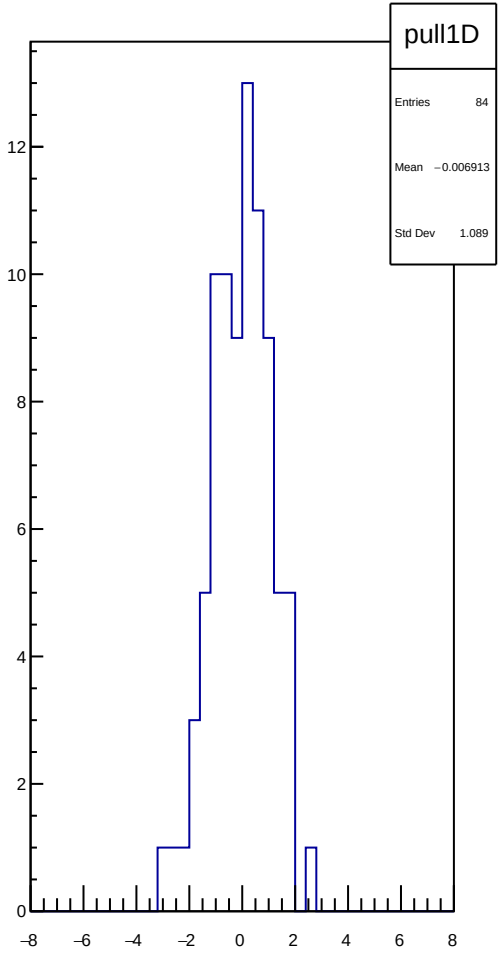

asym_at2_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 6429 / 83
p0 8982 ± 7.057
10500
10000
9500
9000
8500
8000
7500

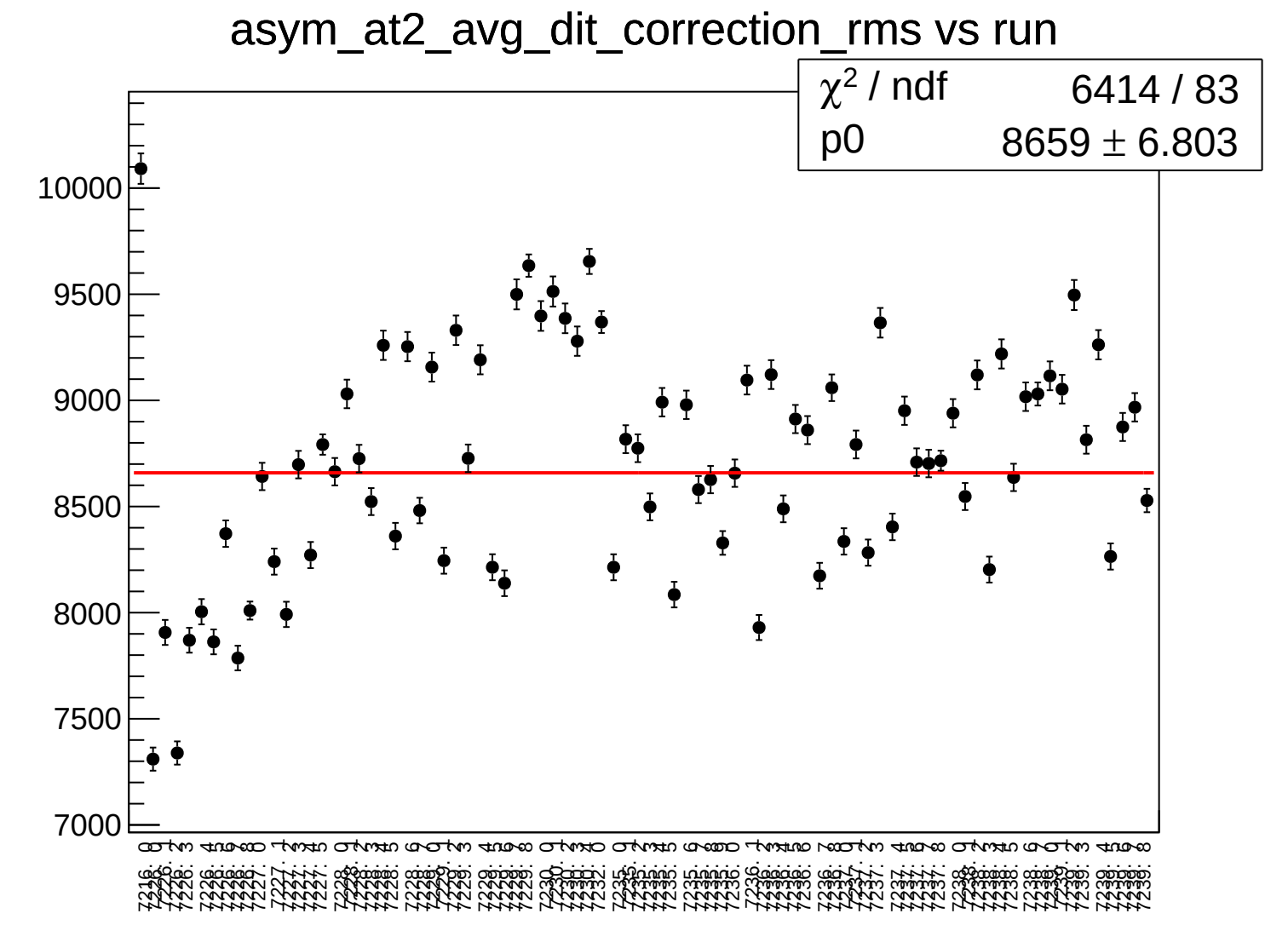

dit_asym_at2_avg_mean vs run
χ² / ndf 104.4 / 83
p0 −2941 ± 1889
pull
Entries 84
Mean 108.3
Std Dev 0

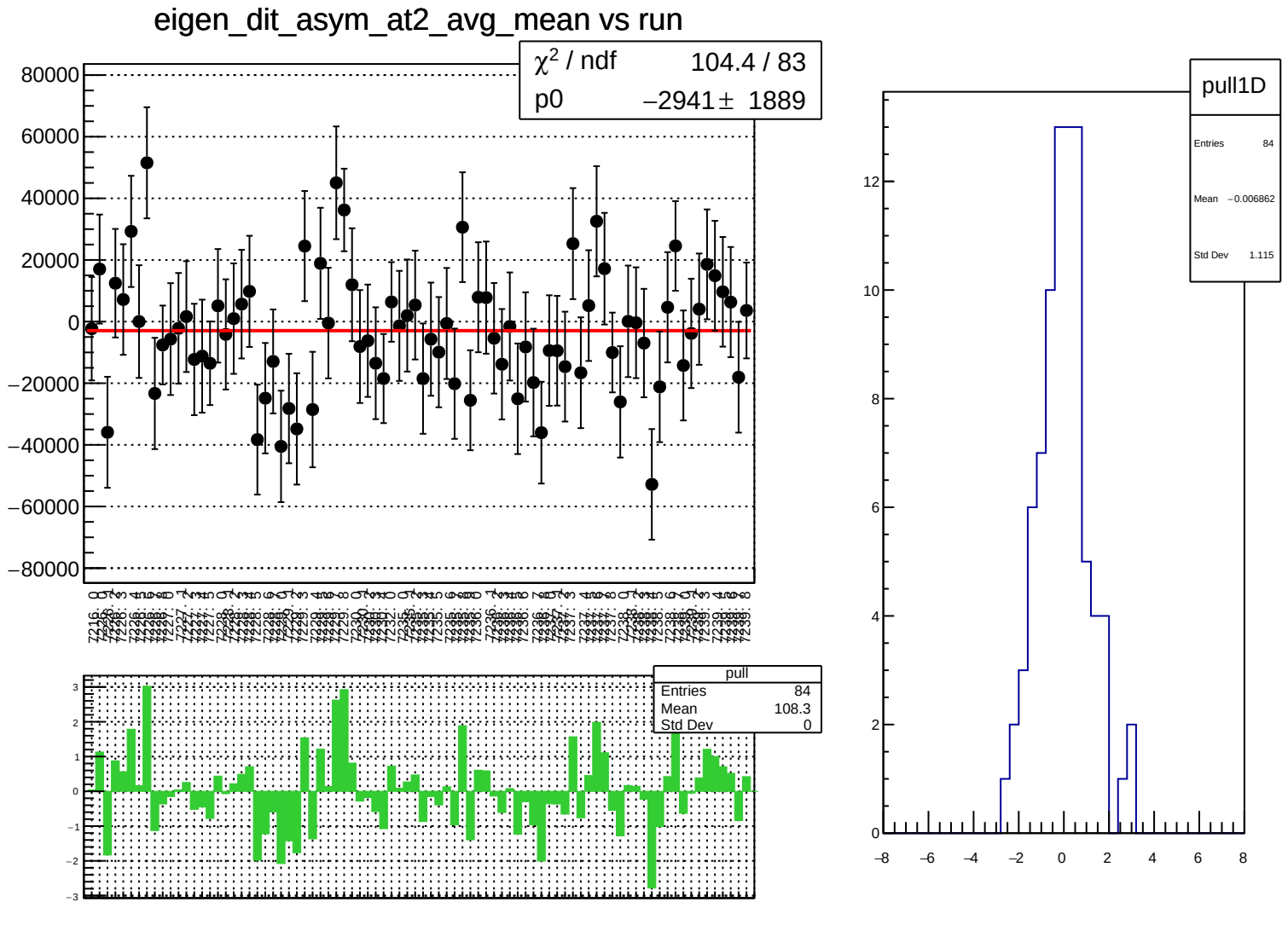

pull1D
Entries 84
Mean −0.006862
Std Dev 1.115

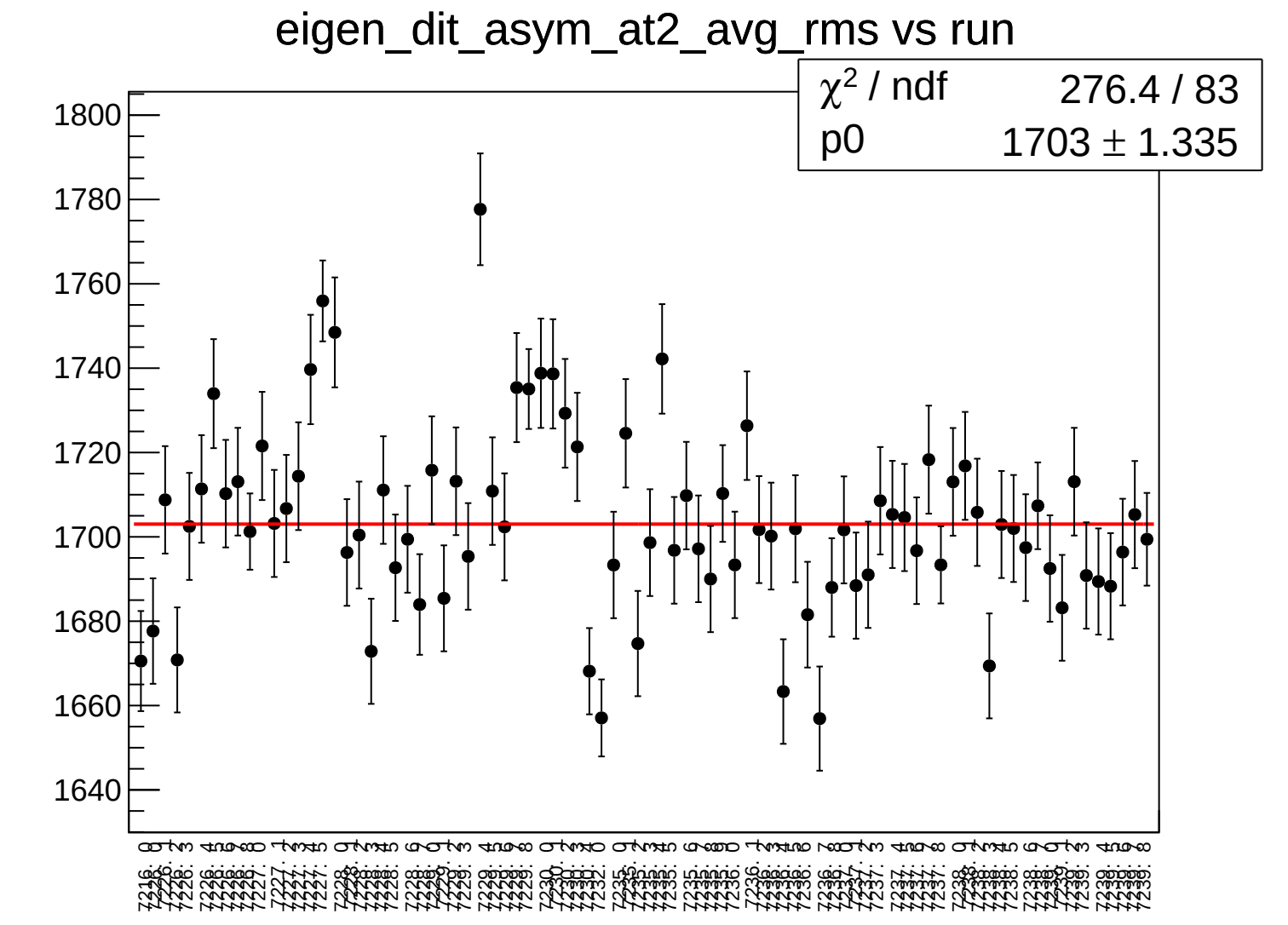

dit_asym_at2_avg_rms vs run
χ^2 / ndf 276.4 / 83
p0 1703 ± 1.335
1800
1780
1760
1740
1720
1700
1680
1660
1640

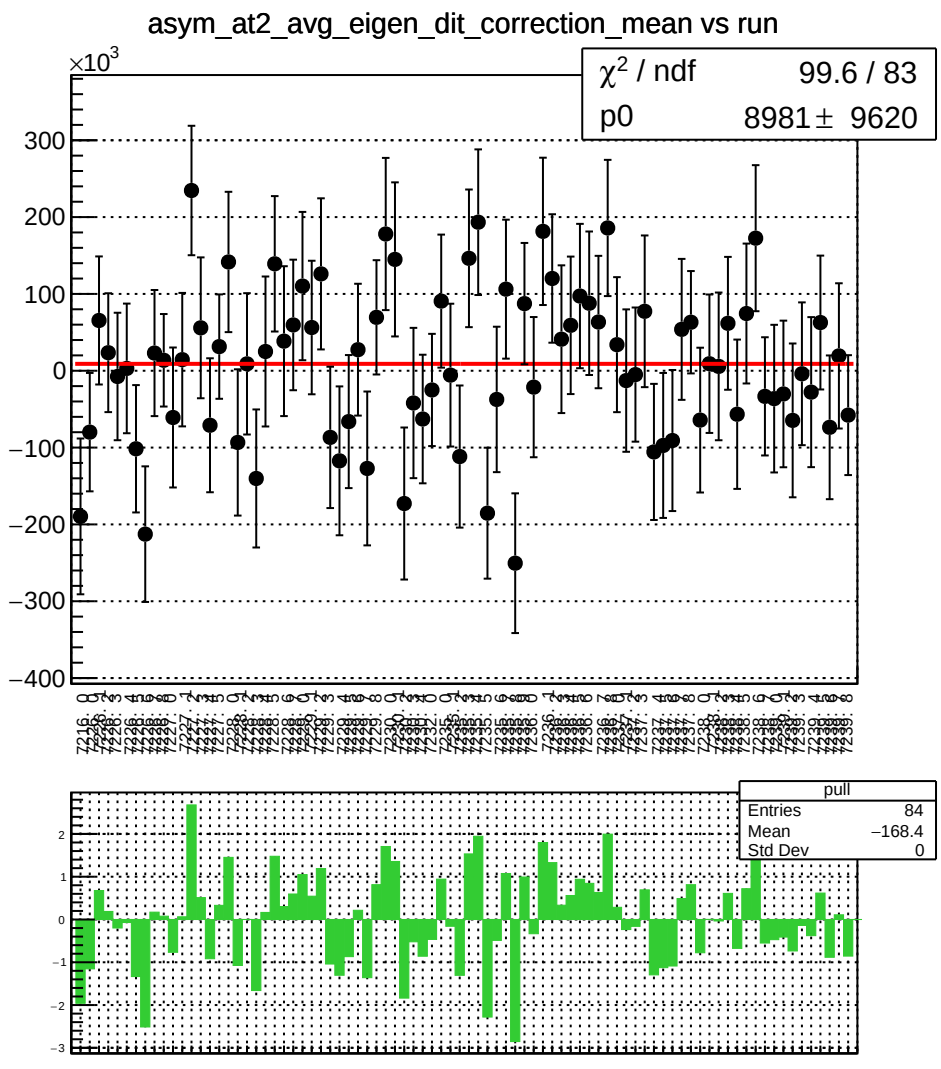

asym_at2_avg_dit_correction_mean vs run
χ² / ndf 99.6 / 83
p0 8981 ± 9620
×10³
pull
Entries 84
Mean −168.4
Std Dev 0

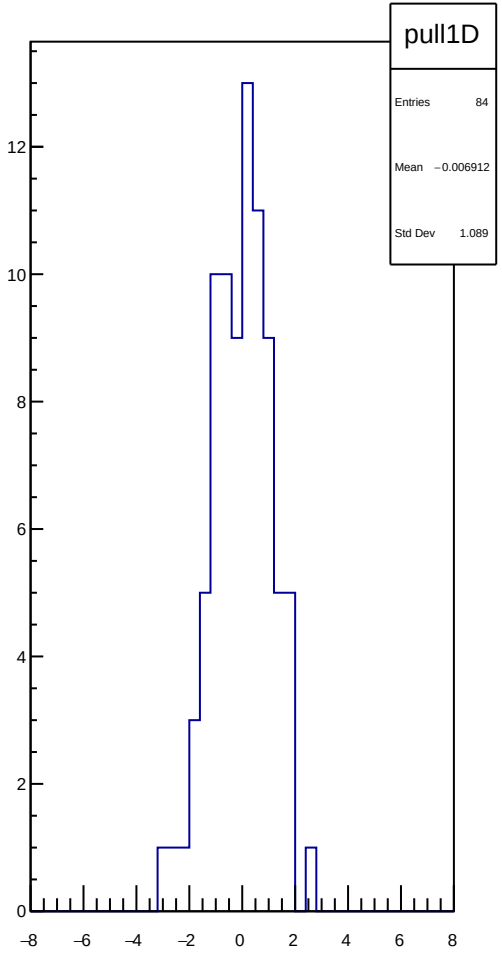

pull1D
Entries 84
Mean −0.006913
Std Dev 1.089

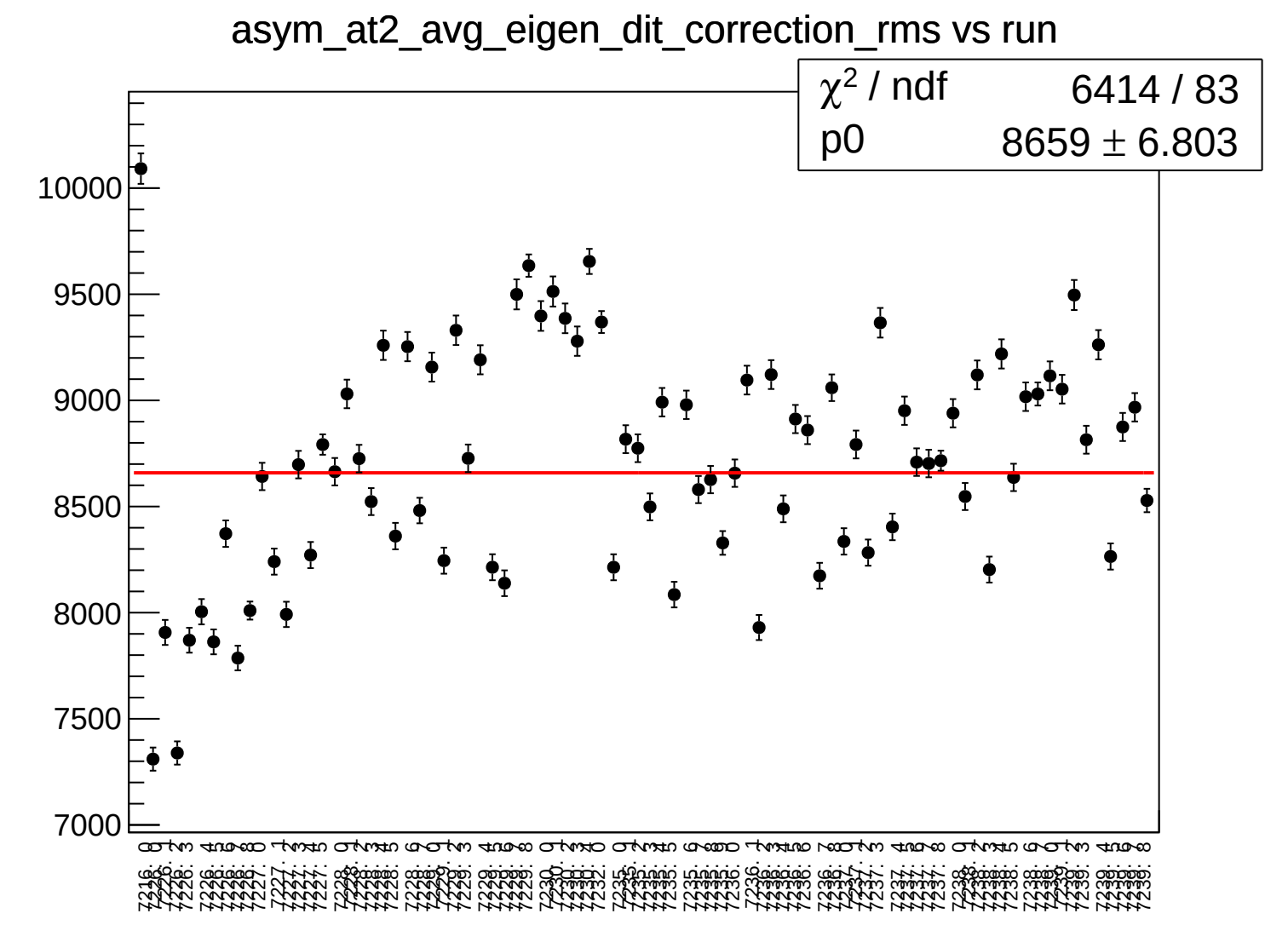

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 6414 / 83
p0 8659 ± 6.803
10000
9500
9000
8500
8000
7500
7000

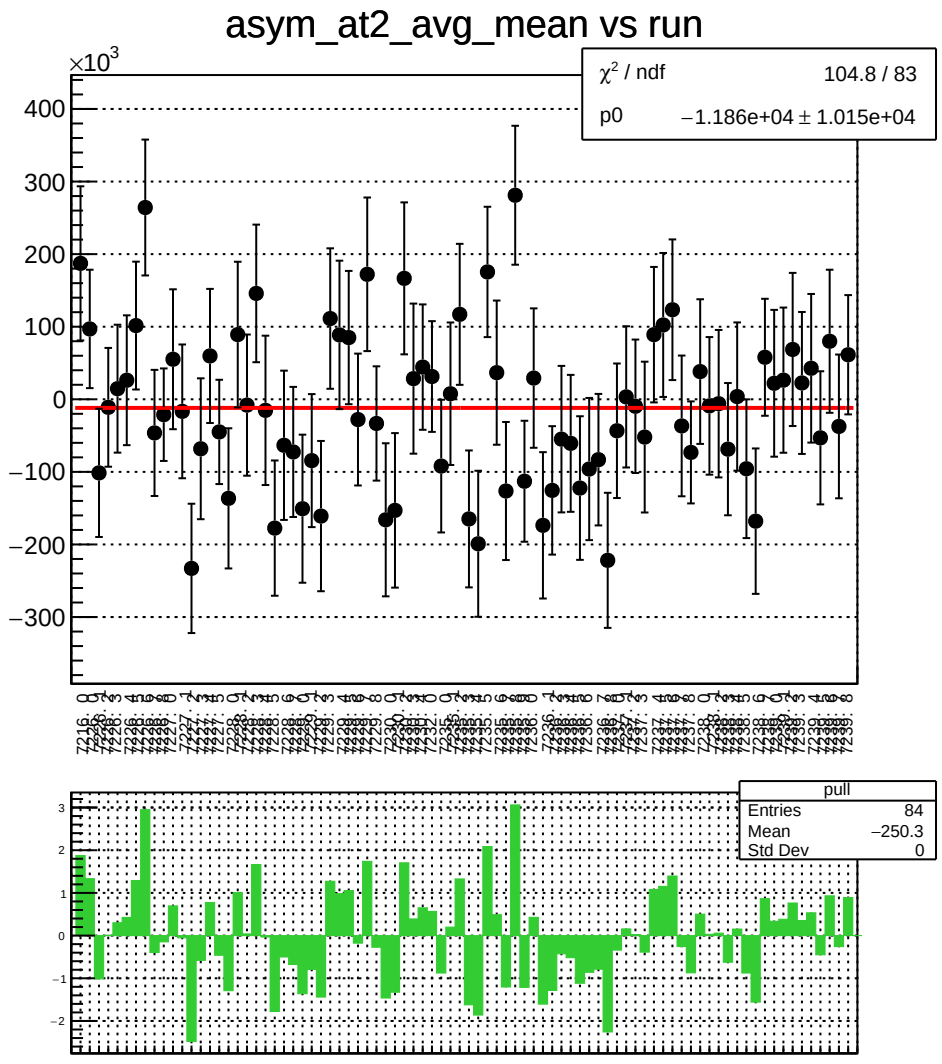

eigen_dit_asym_at2_avg_mean vs run
χ² / ndf 104.4 / 83
p0 −2941 ± 1889
pull
Entries 84
Mean 108.3
Std Dev 0
pull1D
Entries 84
Mean −0.006862
Std Dev 1.115

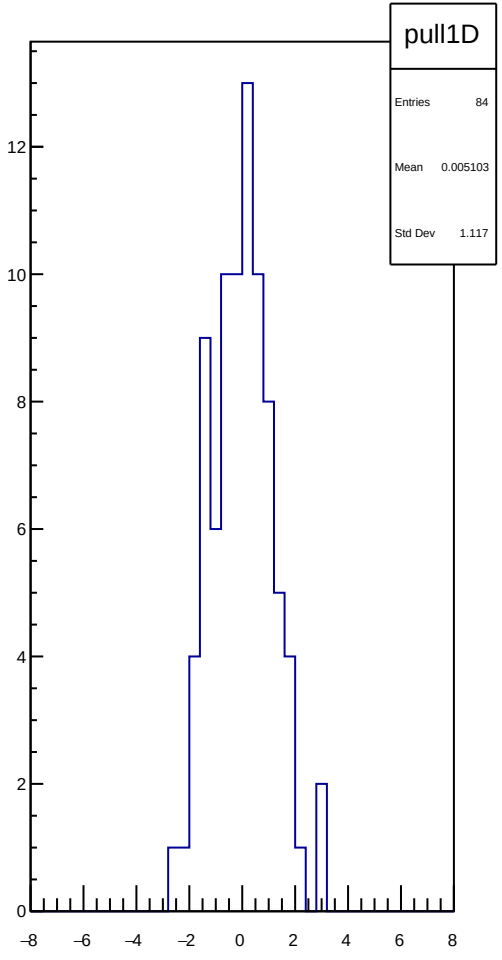

eigen_dit_asym_at2_avg_rms vs run
χ² / ndf 276.4 / 83
p0 1703 ± 1.335
1800
1780
1760
1740
1720
1700
1680
1660
1640

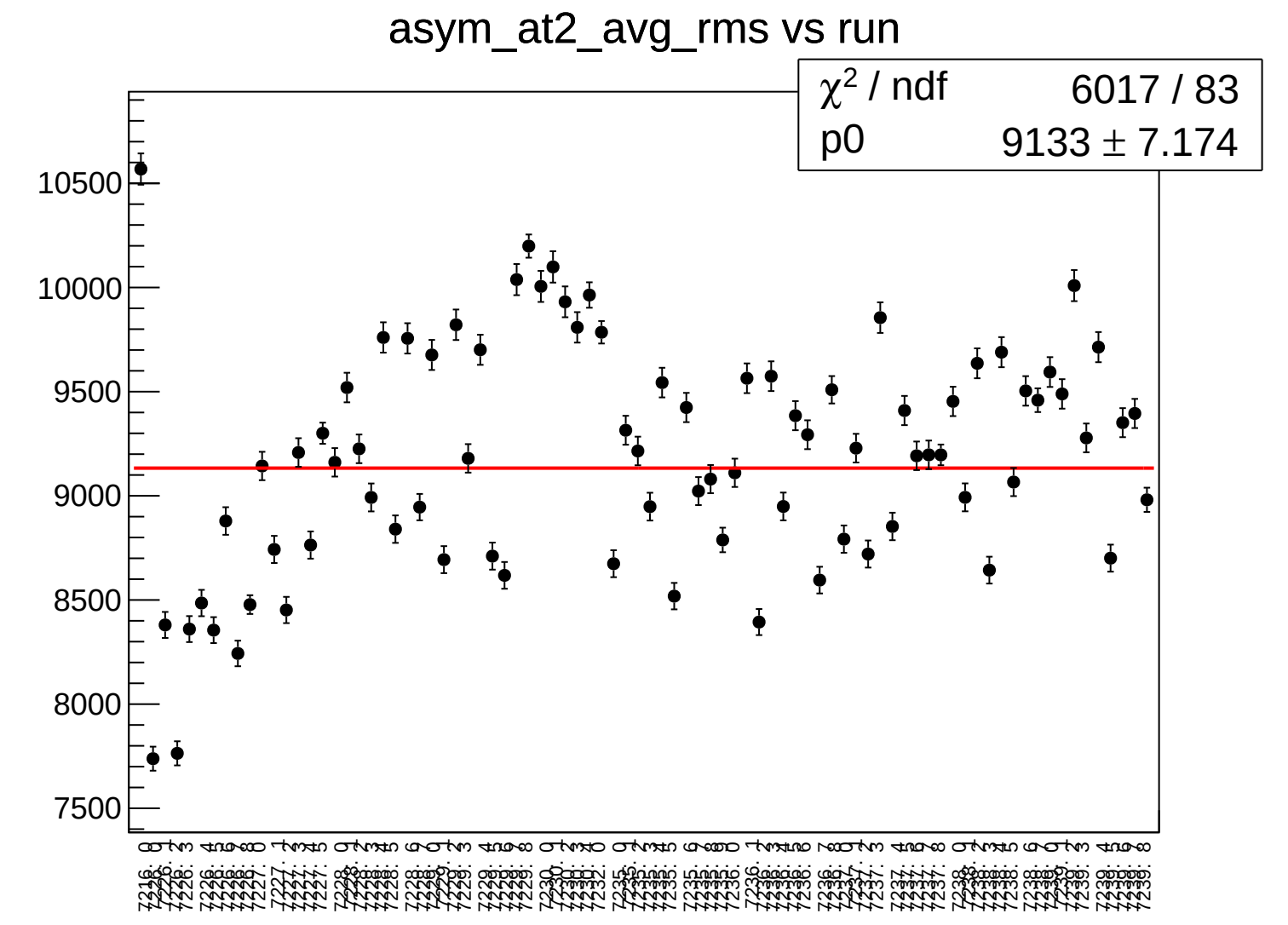

asym_at2_avg_eigen_dit_correction_mean vs run
χ² / ndf 99.6 / 83
p0 8981 ± 9620
×10³
pull
Entries 84
Mean −168.4
Std Dev 0

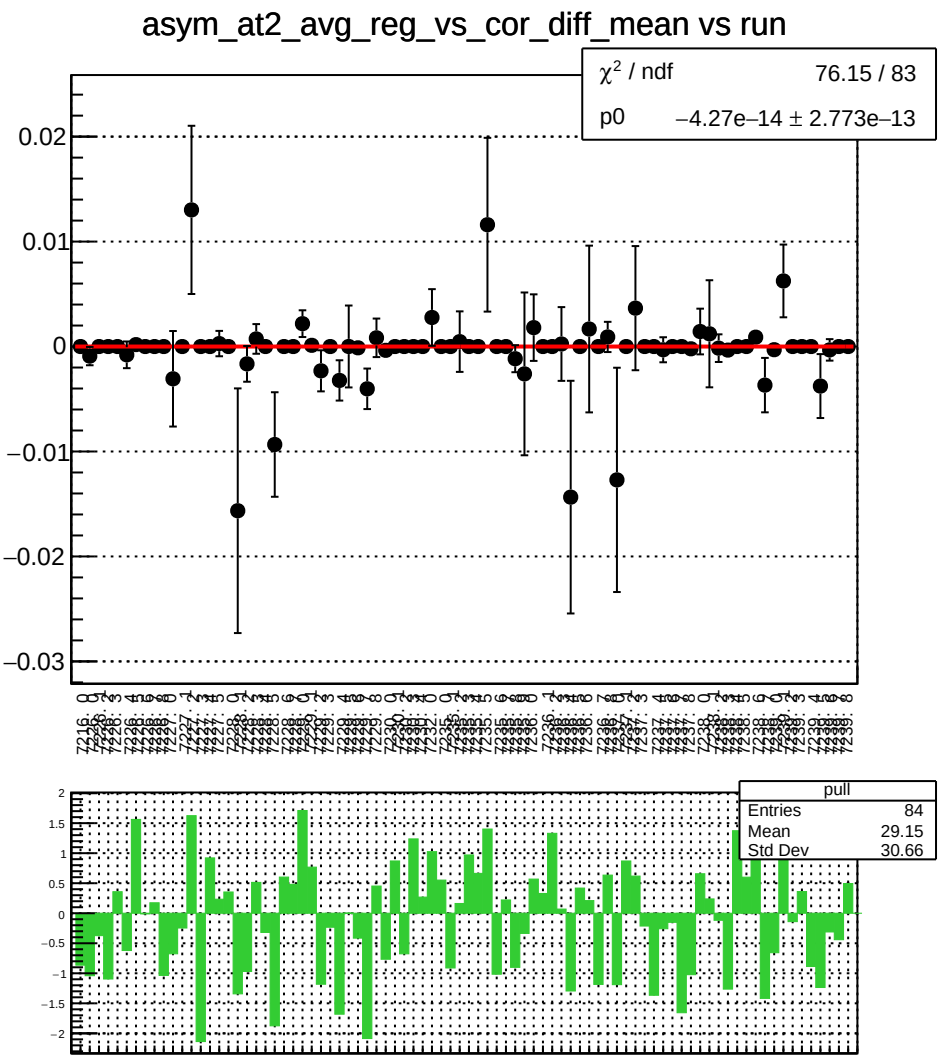

pull1D
Entries 84
Mean −0.006912
Std Dev 1.089

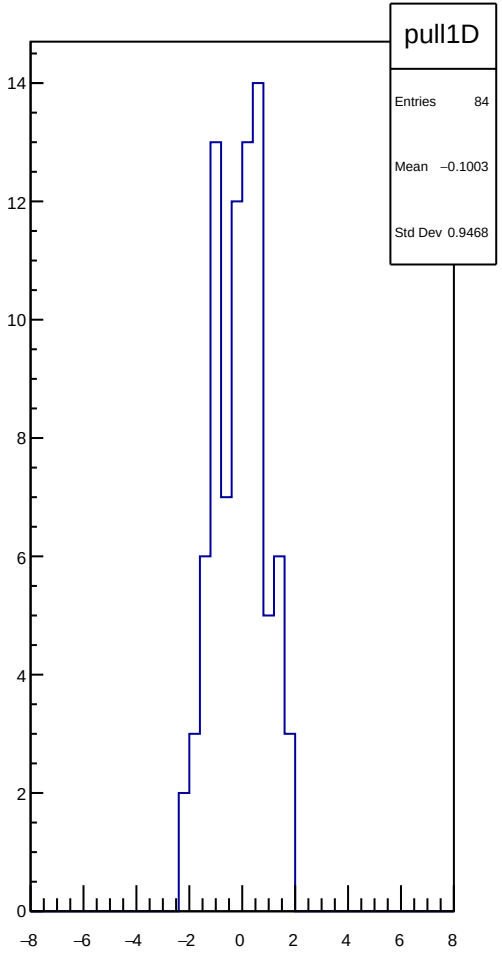

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 6414 / 83
p0 8659 ± 6.803
10000
9500
9000
8500
8000
7500
7000

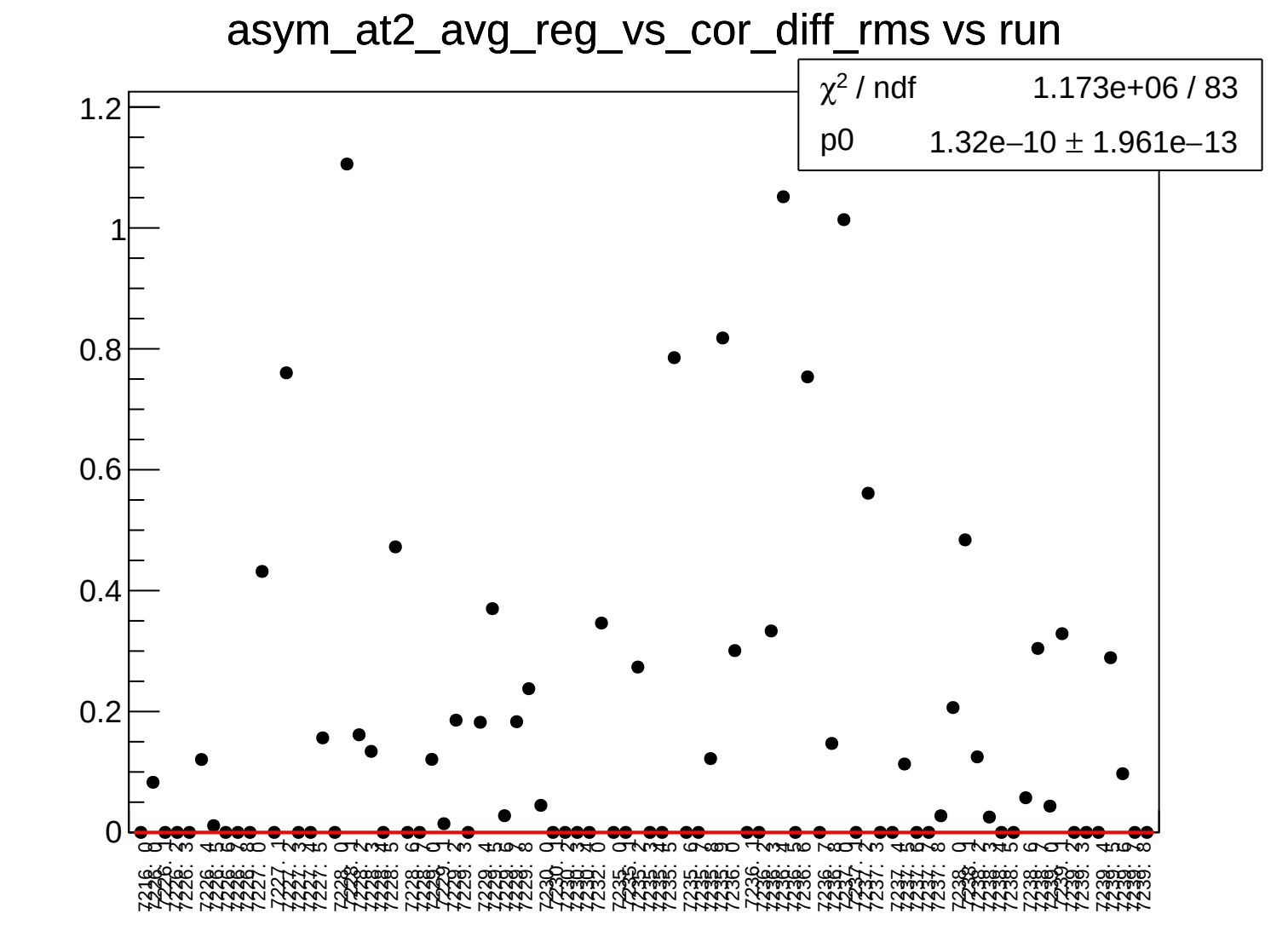

asym_at2_avg_mean vs run
×10^3
χ² / ndf 104.8 / 83
p0 −1.186e+04 ± 1.015e+04
pull
Entries 84
Mean −250.3
Std Dev 0

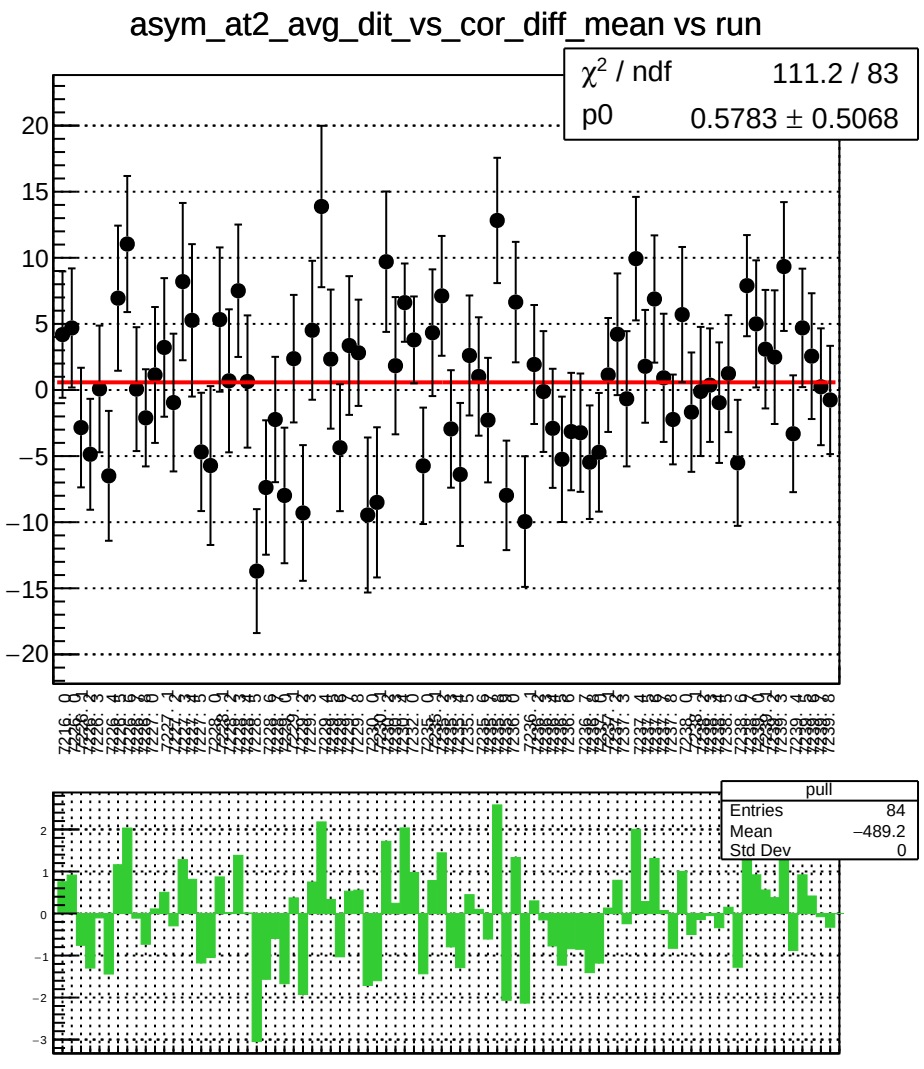

pull1D
Entries 84
Mean 0.005103
Std Dev 1.117

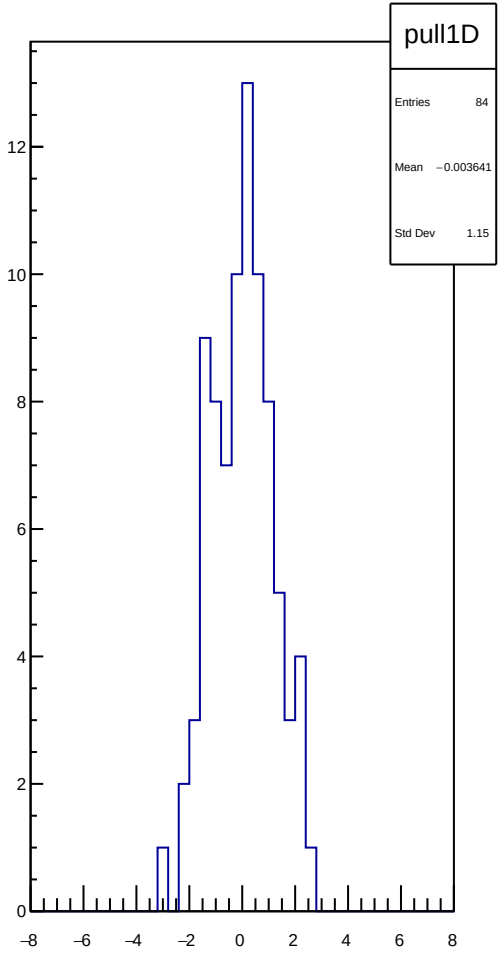

asym_at2_avg_rms vs run
χ^2 / ndf 6017 / 83
p0 9133 ± 7.174
10500
10000
9500
9000
8500
8000
7500

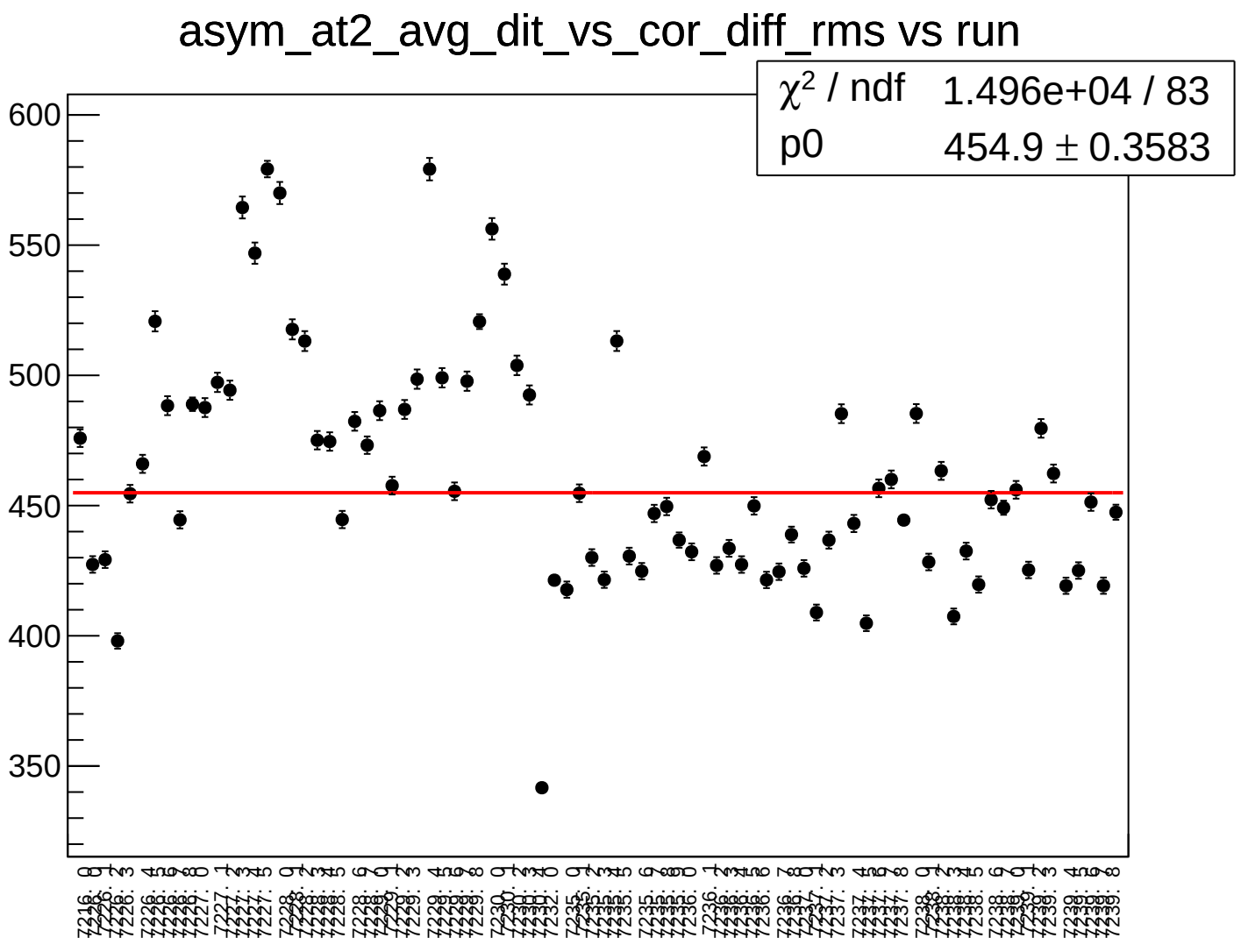

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 76.15 / 83
p0 −4.27e−14 ± 2.773e−13
pull
Entries 84
Mean 29.15
Std Dev 30.66

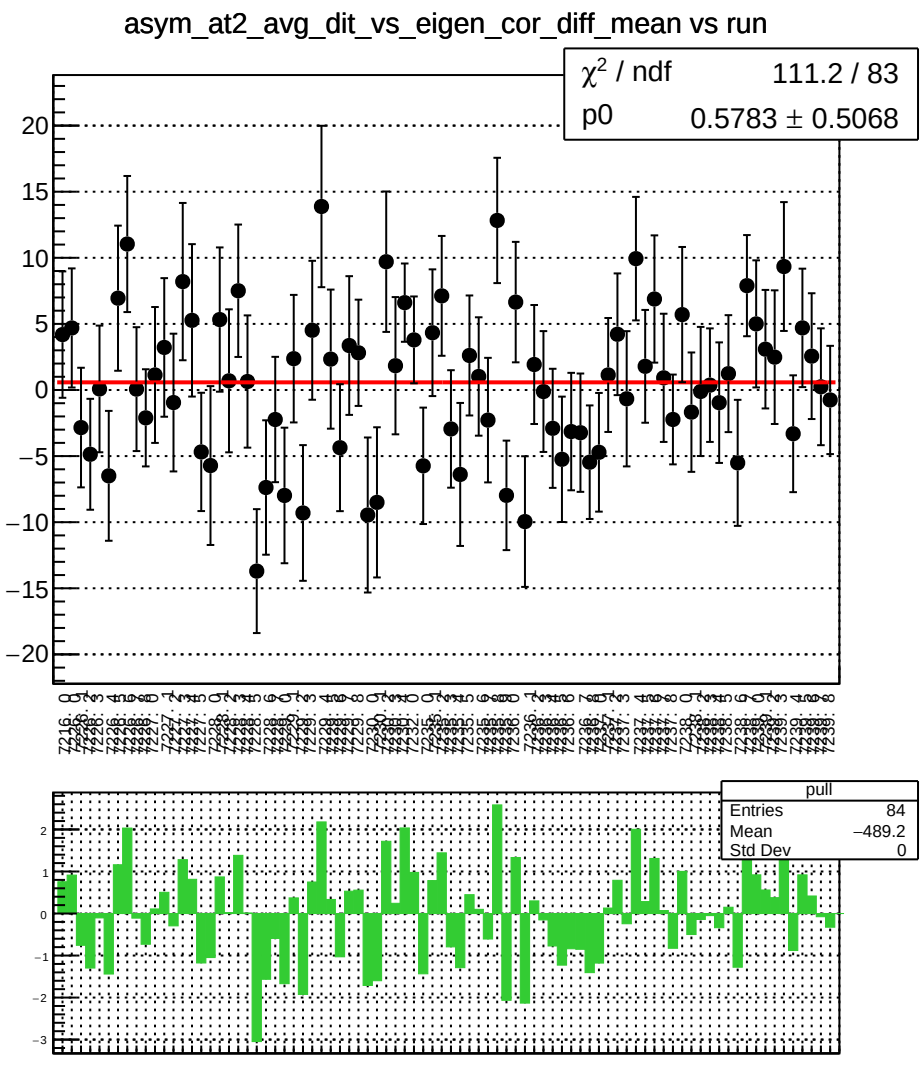

pull1D
Entries 84
Mean −0.1003
Std Dev 0.9468

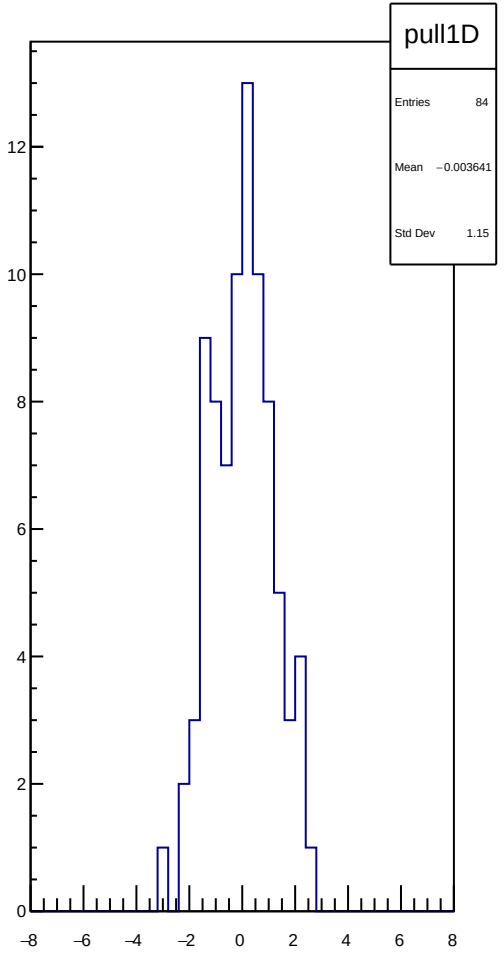

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.173e+06 / 83
p0 1.32e−10 ± 1.961e−13
1.2
1
0.8
0.6
0.4
0.2
0

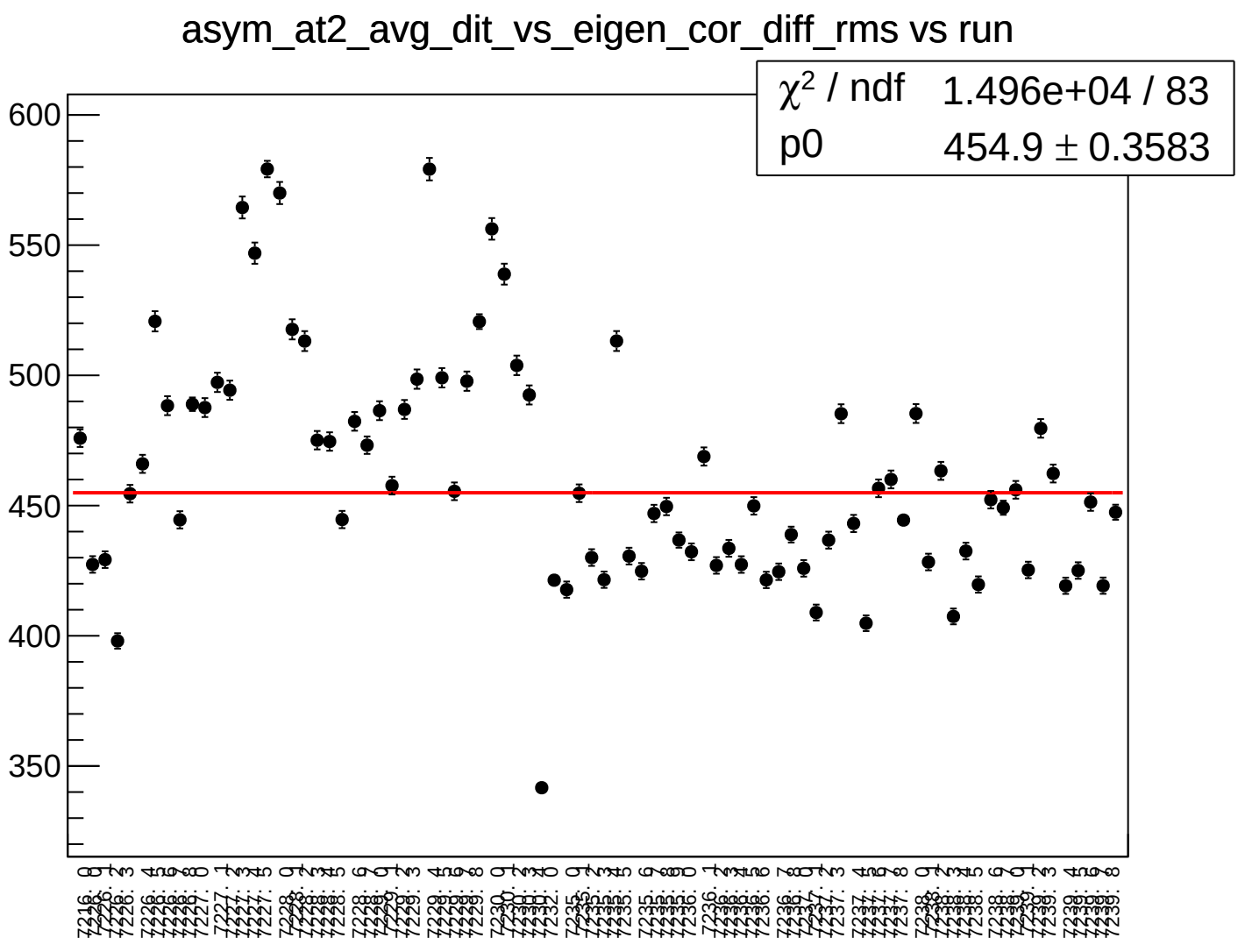

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 111.2 / 83
p0 0.5783 ± 0.5068
pull
Entries 84
Mean −489.2
Std Dev 0

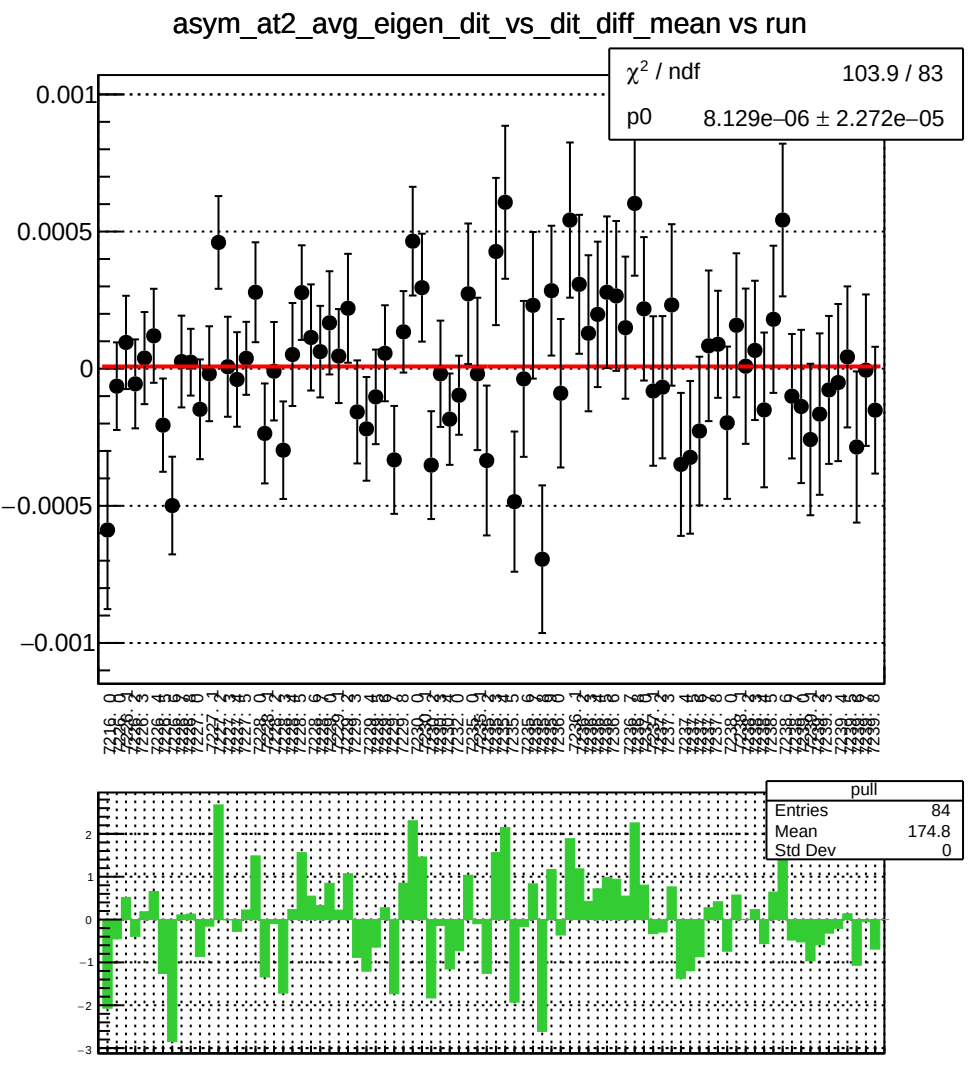

pull1D
Entries 84
Mean −0.003641
Std Dev 1.15

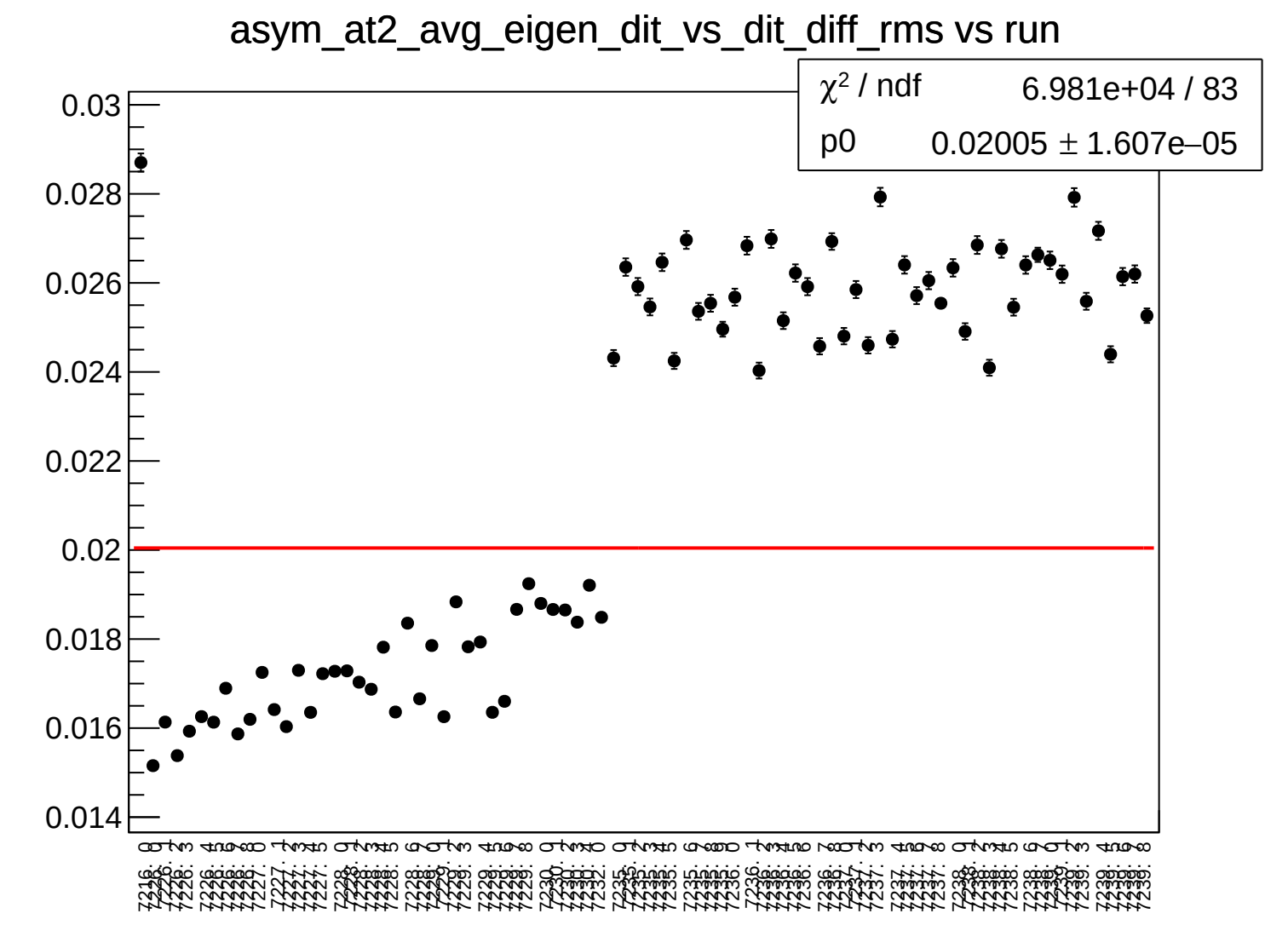

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.496e+04 / 83
p0 454.9 ± 0.3583
600
550
500
450
400
350

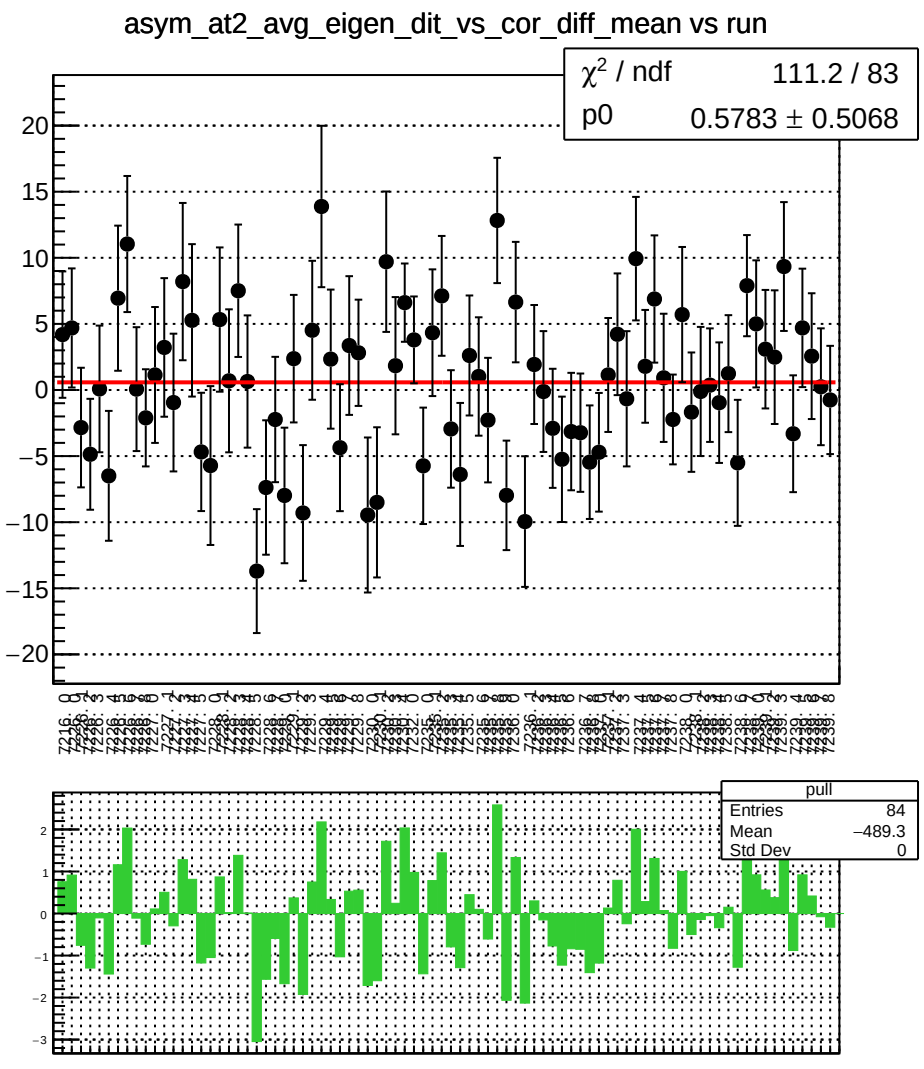

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 111.2 / 83
p0 0.5783 ± 0.5068
pull
Entries 84
Mean −489.2
Std Dev 0

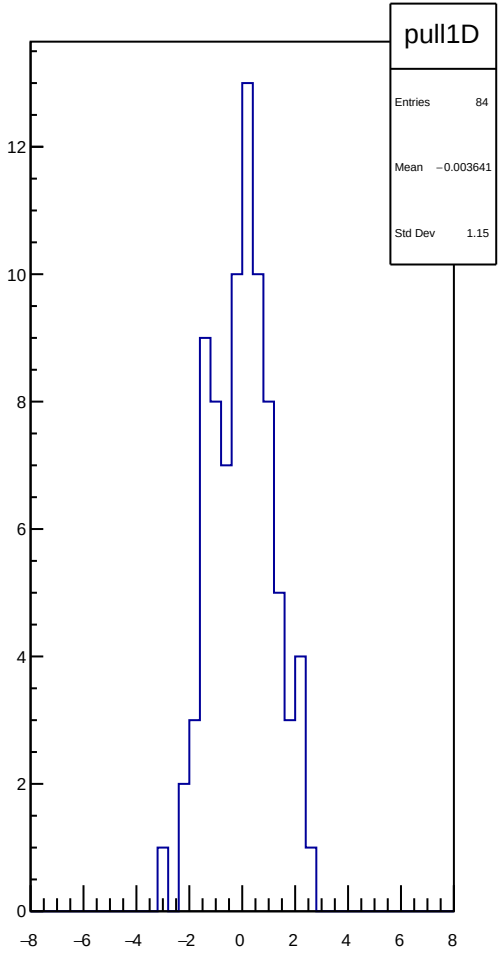

pull1D
Entries 84
Mean −0.003641
Std Dev 1.15

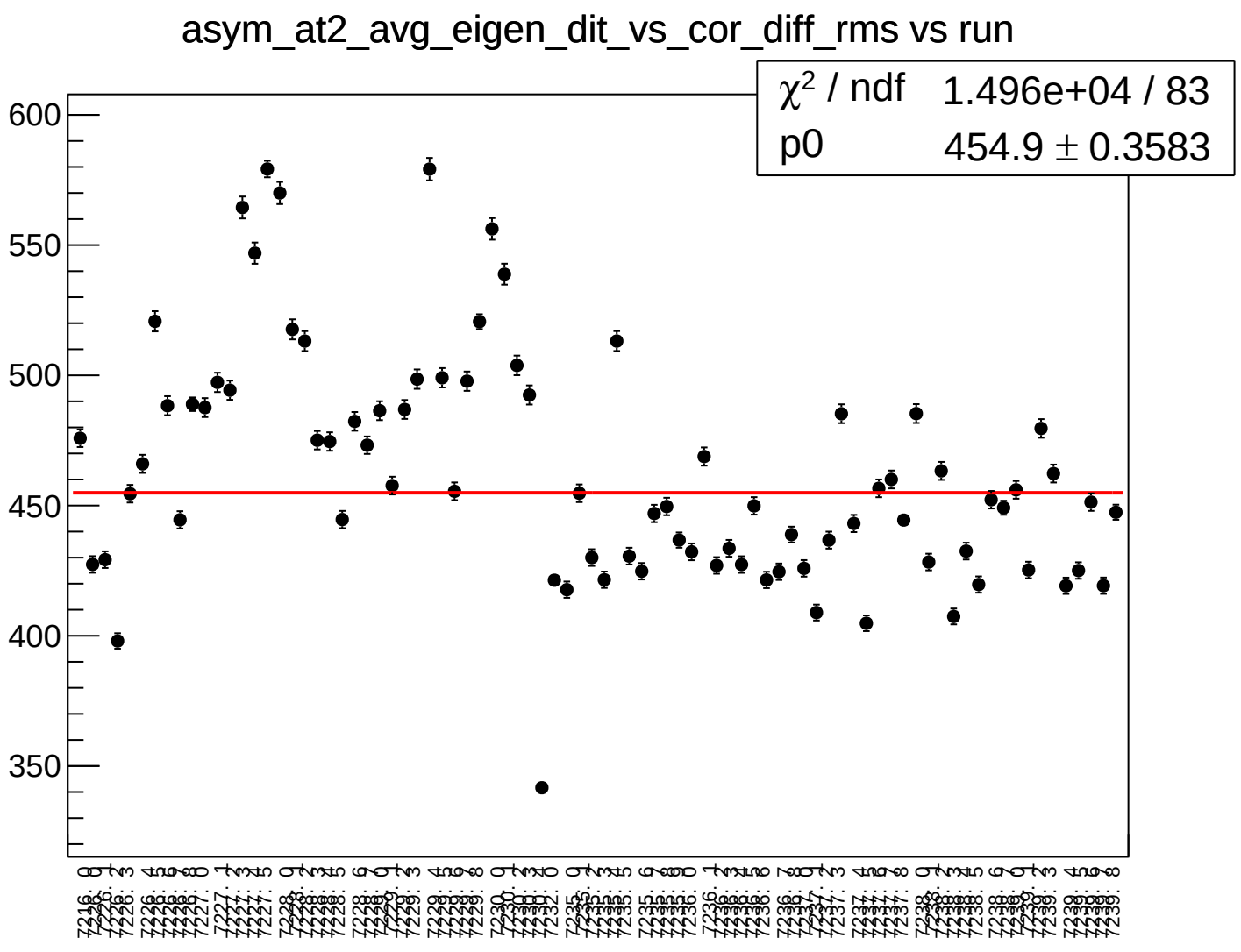

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.496e+04 / 83
p0 454.9 ± 0.3583
600
550
500
450
400
350

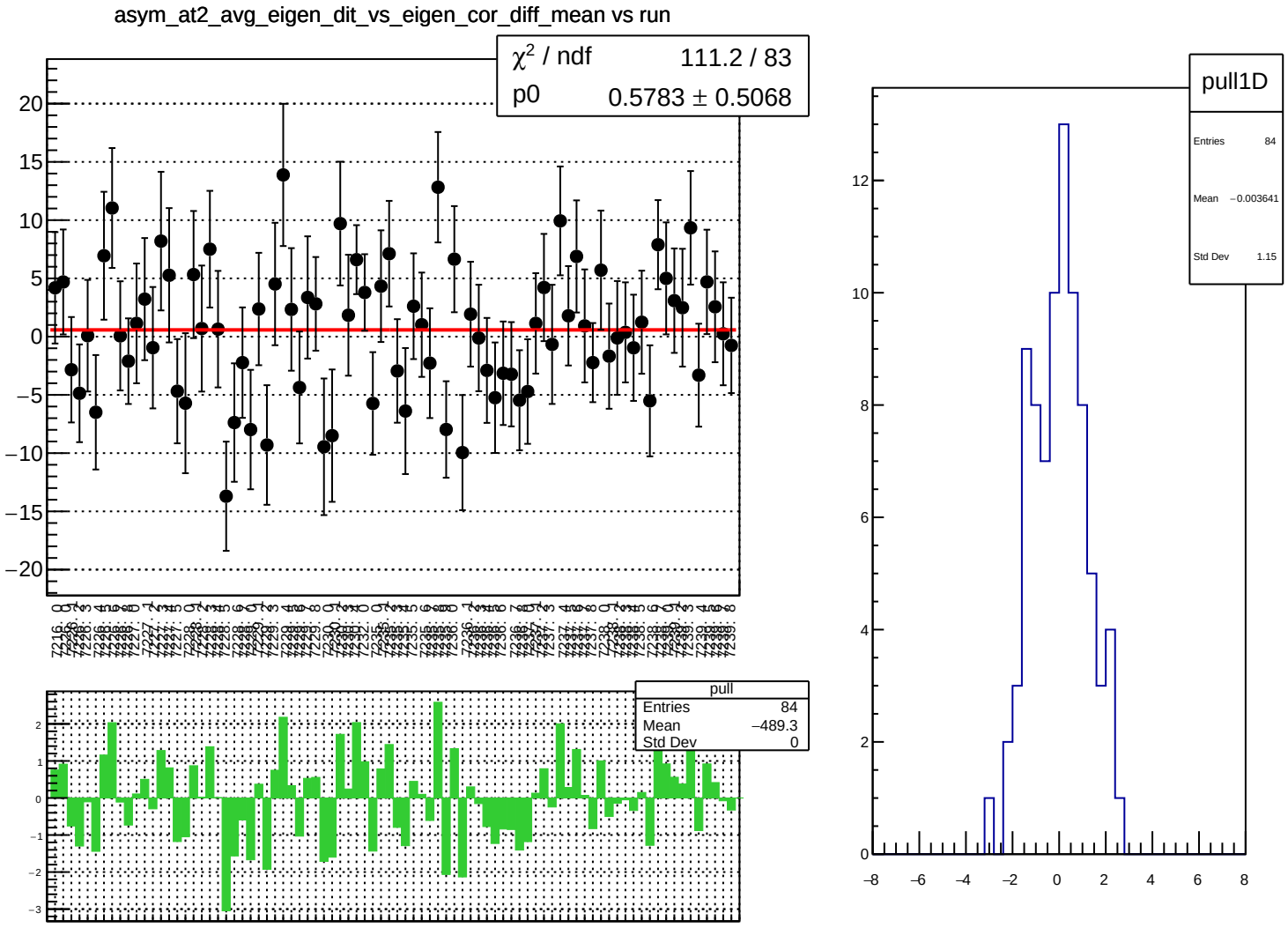

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 103.9 / 83
p0 8.129e−06 ± 2.272e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 84
Mean 174.8
Std Dev 0
pull1D
Entries 84
Mean 0.008122
Std Dev 1.112

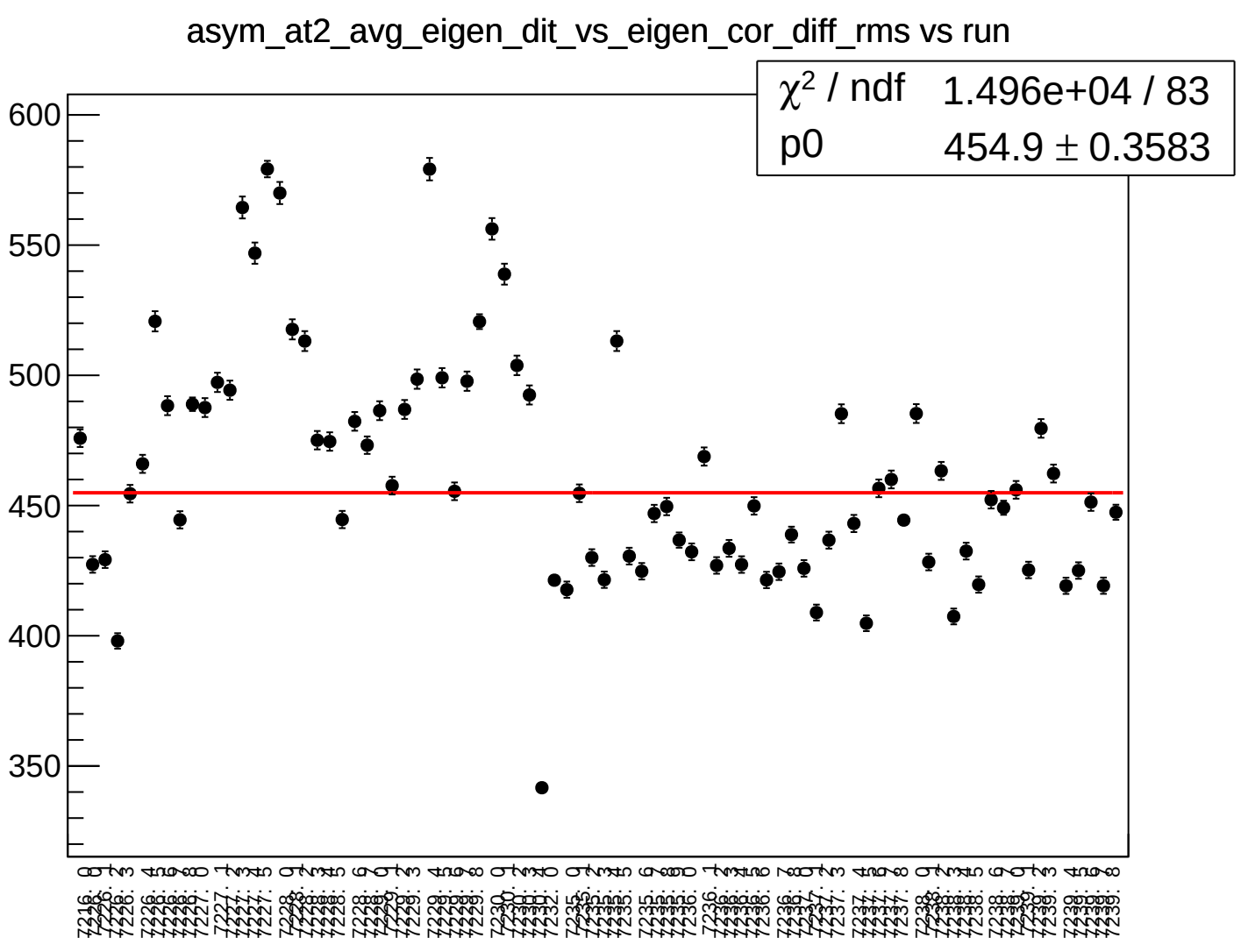

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.981e+04 / 83
p0 0.02005 ± 1.607e–05
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014

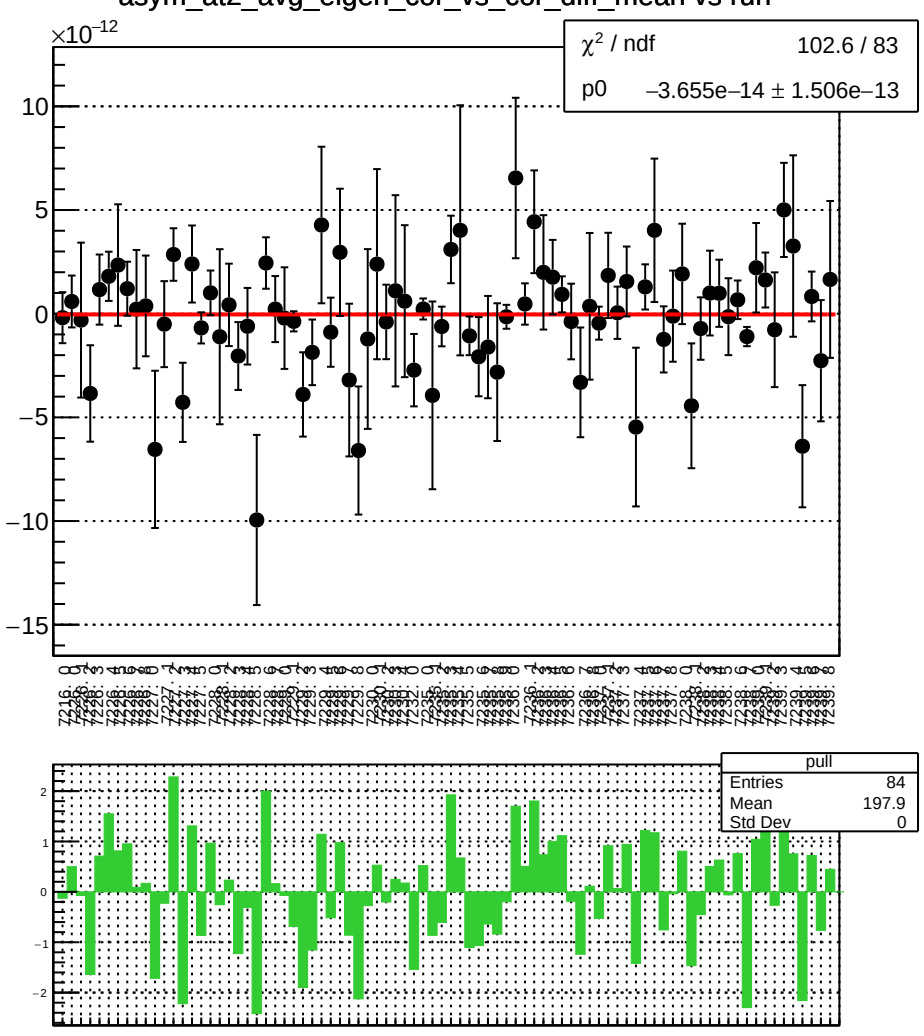

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 111.2 / 83
p0 0.5783 ± 0.5068
pull
Entries 84
Mean −489.3
Std Dev 0

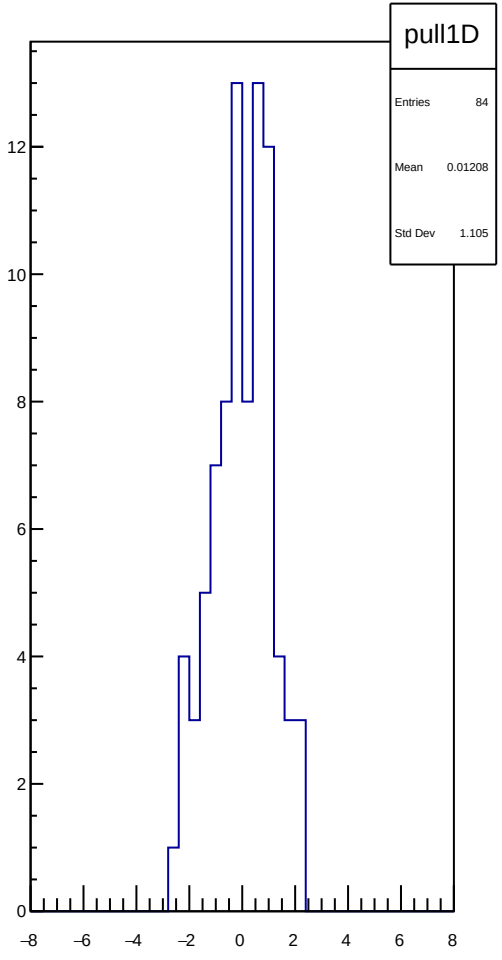

pull1D
Entries 84
Mean −0.003641
Std Dev 1.15

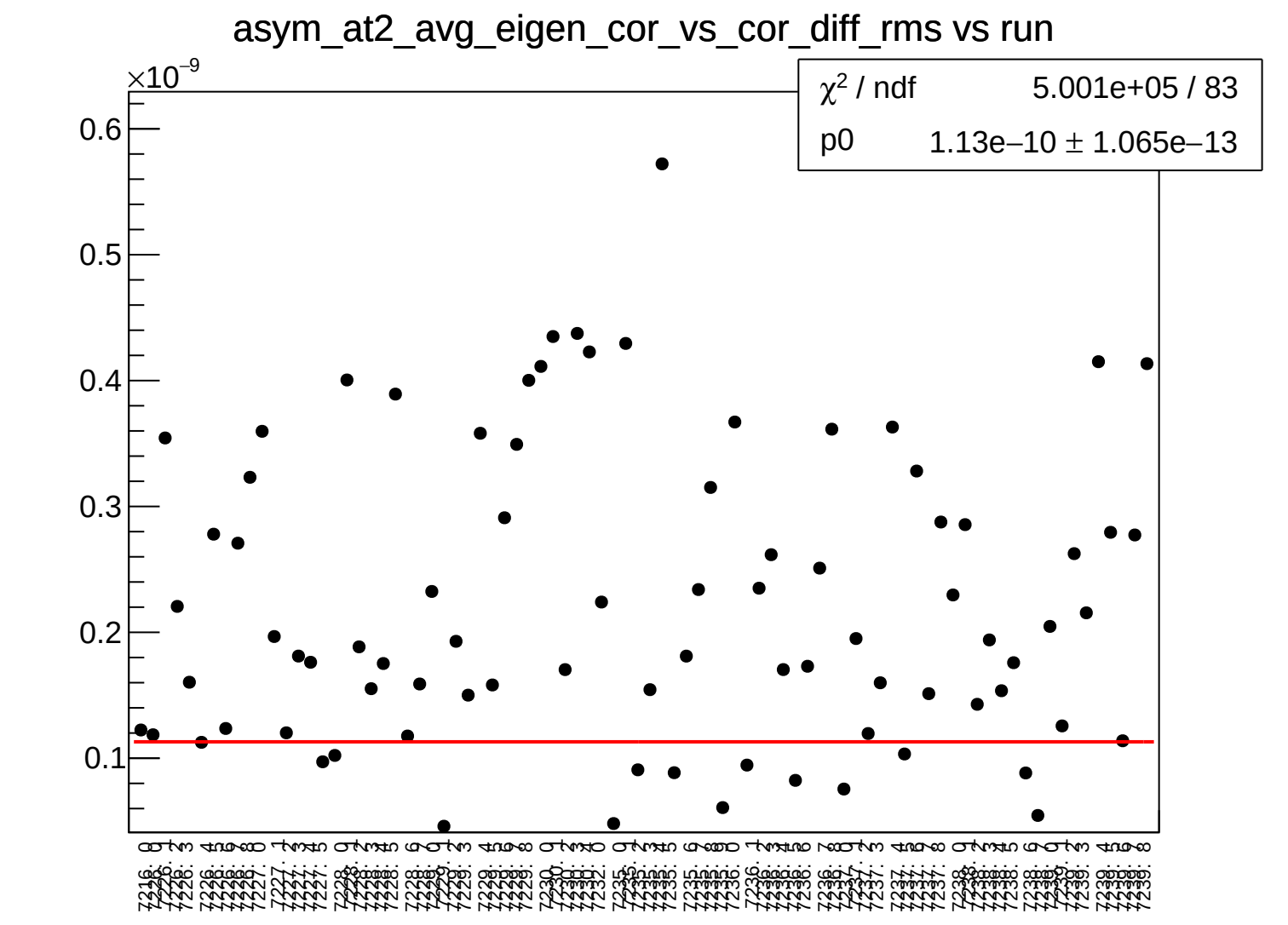

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.496e+04 / 83
p0 454.9 ± 0.3583
600
550
500
450
400
350

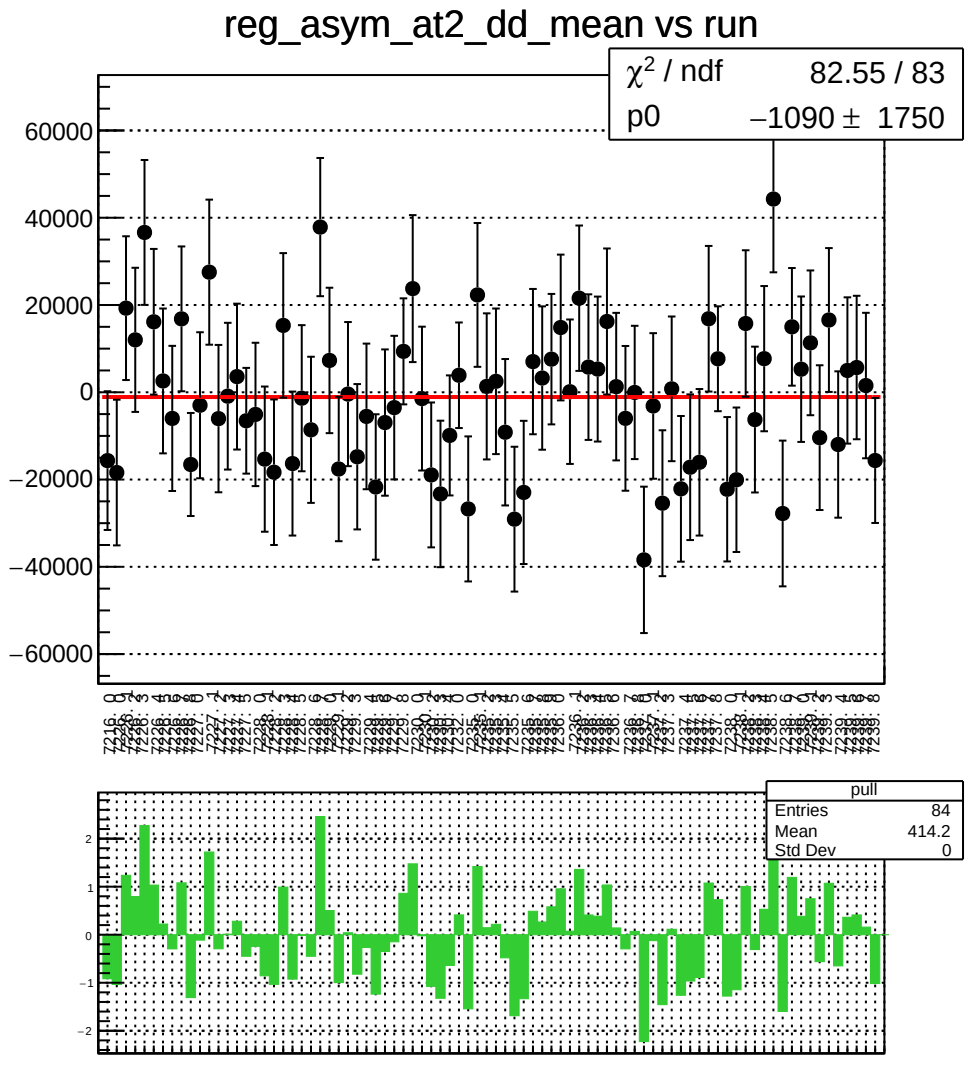

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 111.2 / 83
p0 0.5783 ± 0.5068
pull
Entries 84
Mean −489.3
Std Dev 0
pull1D
Entries 84
Mean −0.003641
Std Dev 1.15

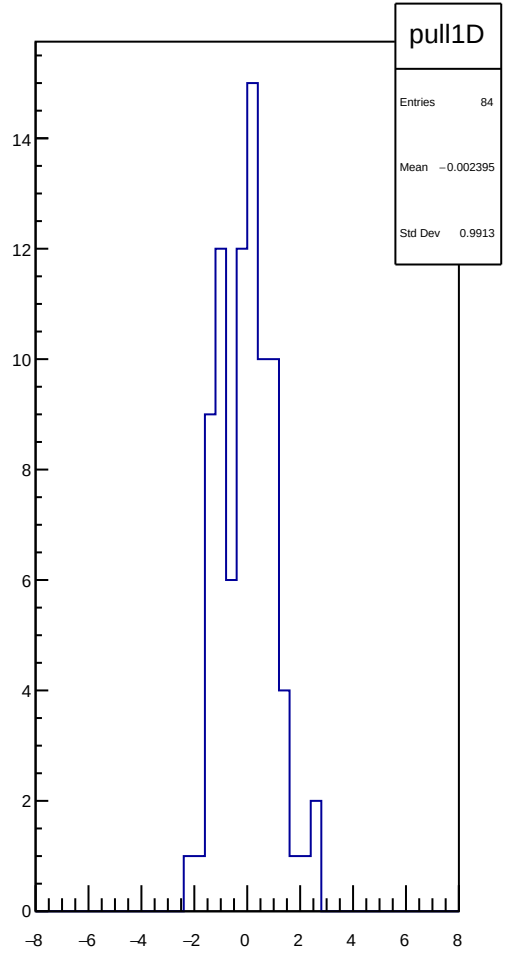

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.496e+04 / 83
p0 454.9 ± 0.3583
600
550
500
450
400
350

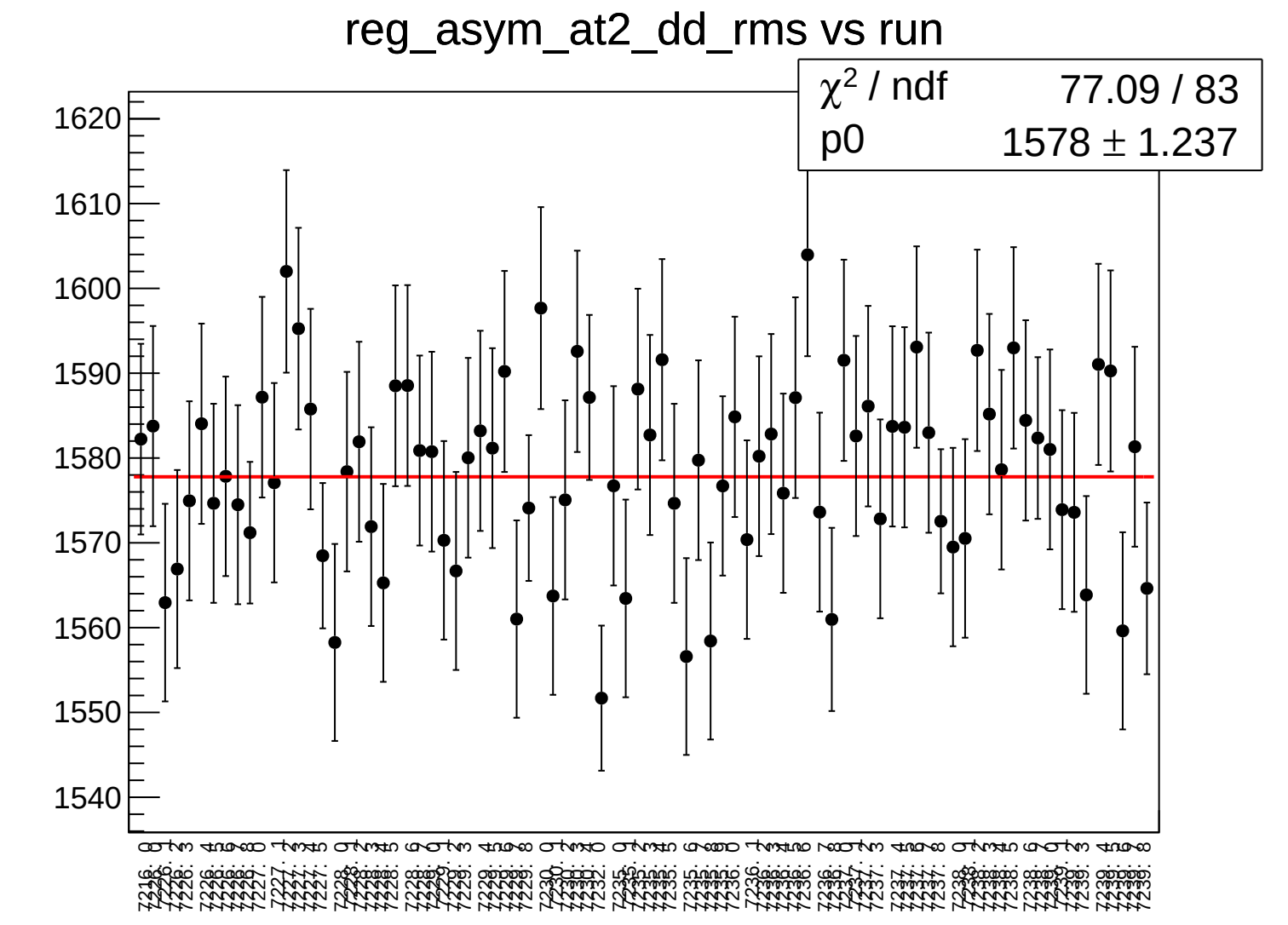

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 102.6 / 83
p0 −3.655e−14 ± 1.506e−13
pull
Entries 84
Mean 197.9
Std Dev 0

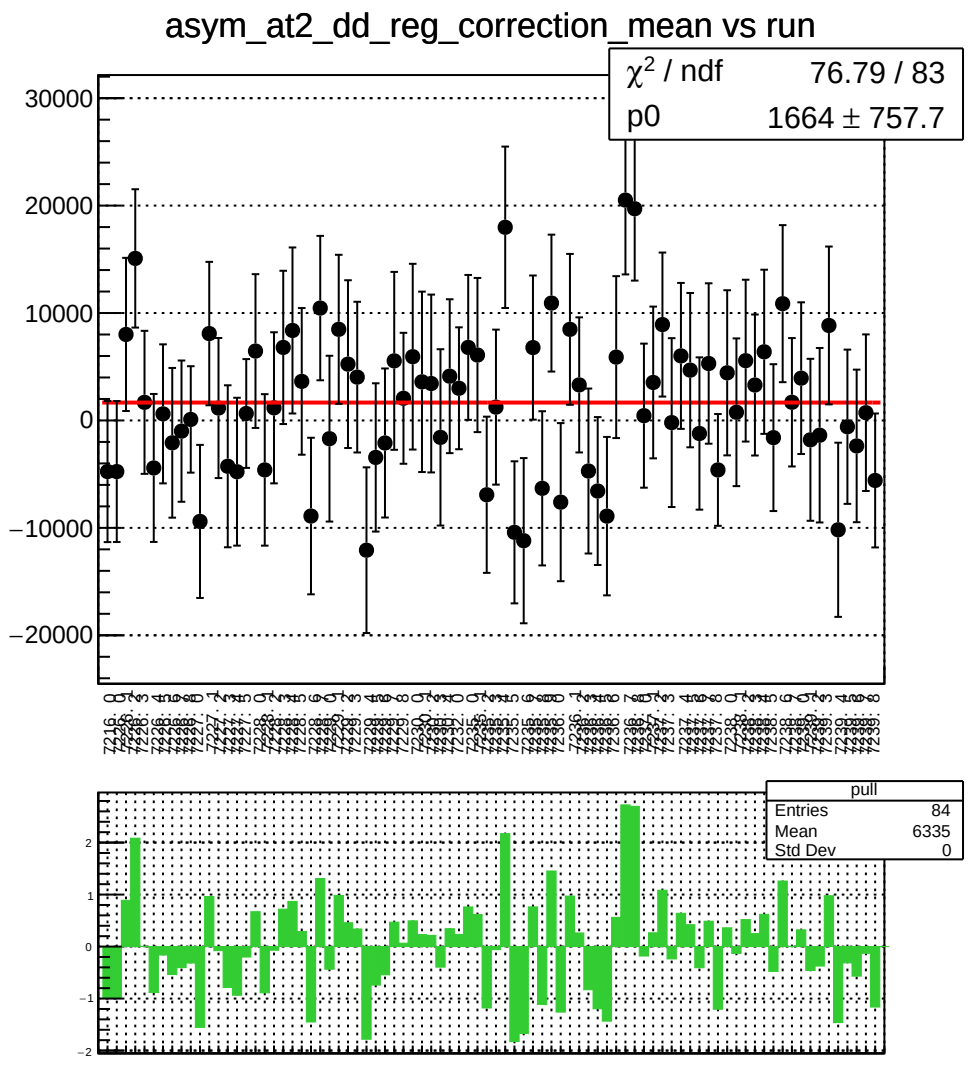

pull1D
Entries 84
Mean 0.01208
Std Dev 1.105

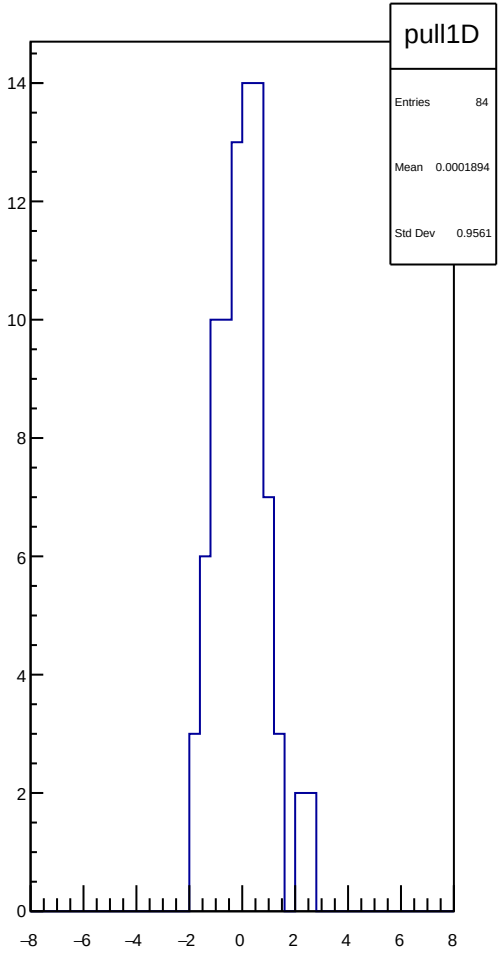

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.001e+05 / 83
p0 1.13e−10 ± 1.065e−13
0.6
0.5
0.4
0.3
0.2
0.1

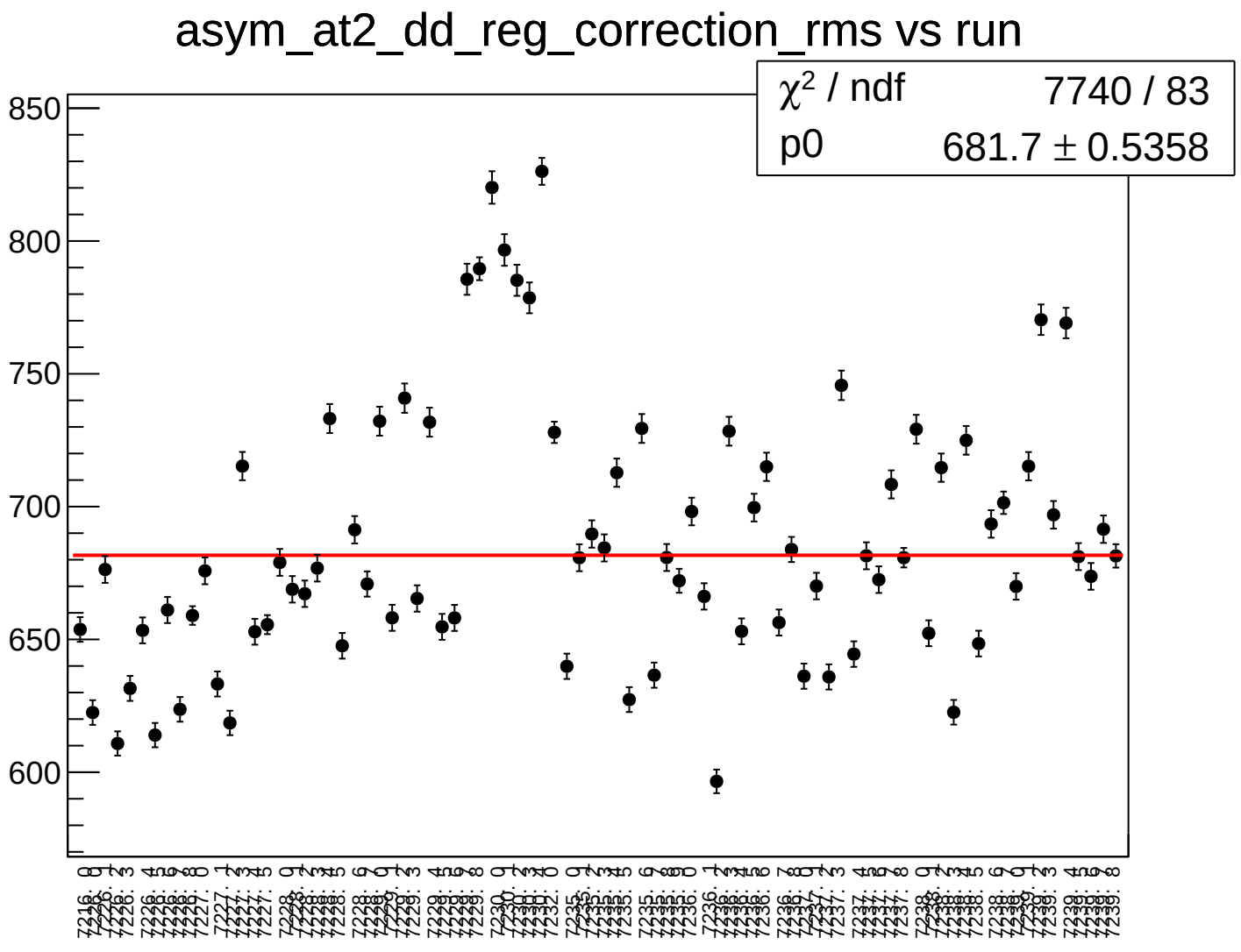

reg_asym_at2_dd_mean vs run
χ² / ndf 82.55 / 83
p0 −1090 ± 1750
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 414.2
Std Dev 0
2
1
0
−1
−2

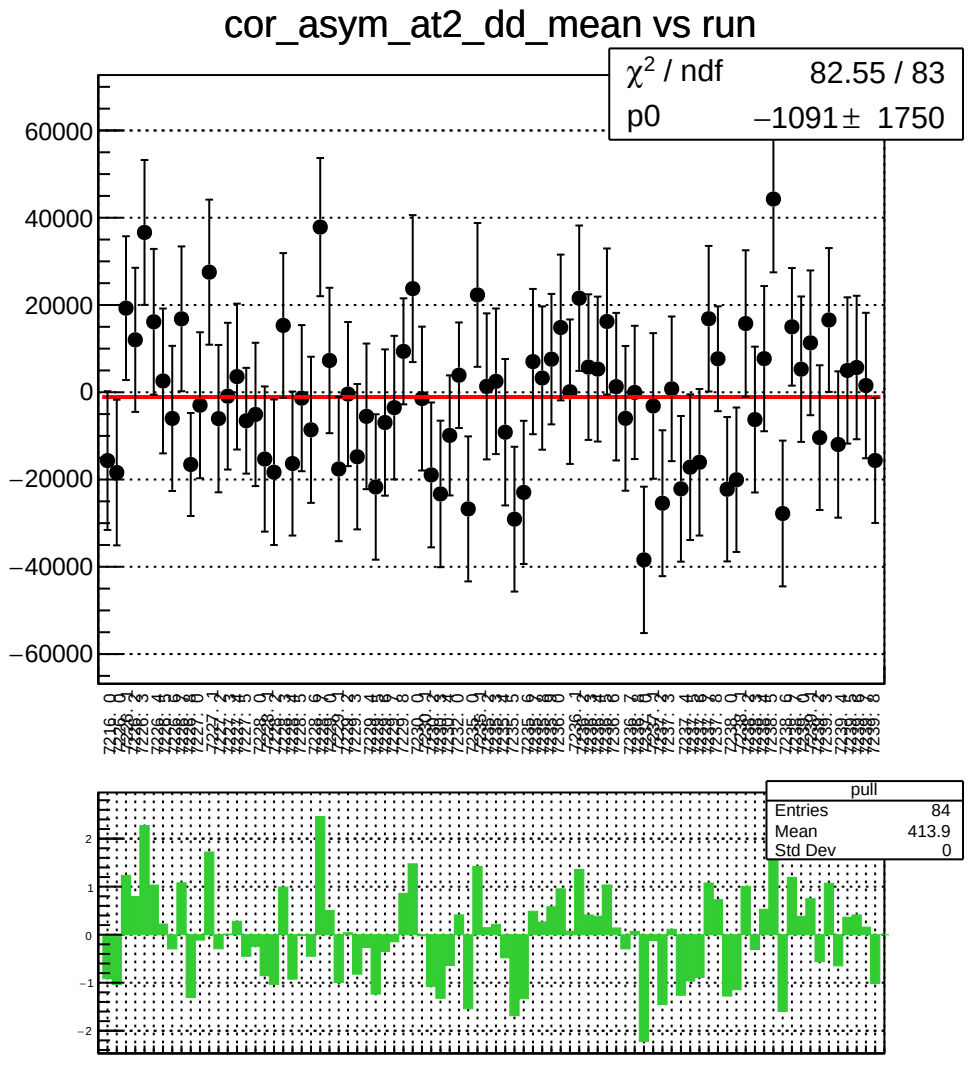

pull1D
Entries 84
Mean −0.002395
Std Dev 0.9913
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

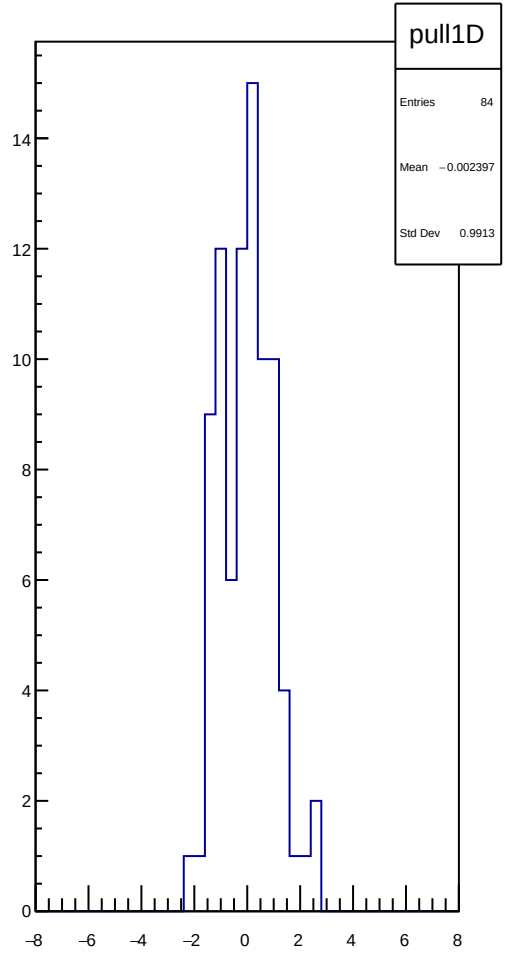

reg_asym_at2_dd_rms vs run
χ^2 / ndf 77.09 / 83
p0 1578 ± 1.237
1620
1610
1600
1590
1580
1570
1560
1550
1540

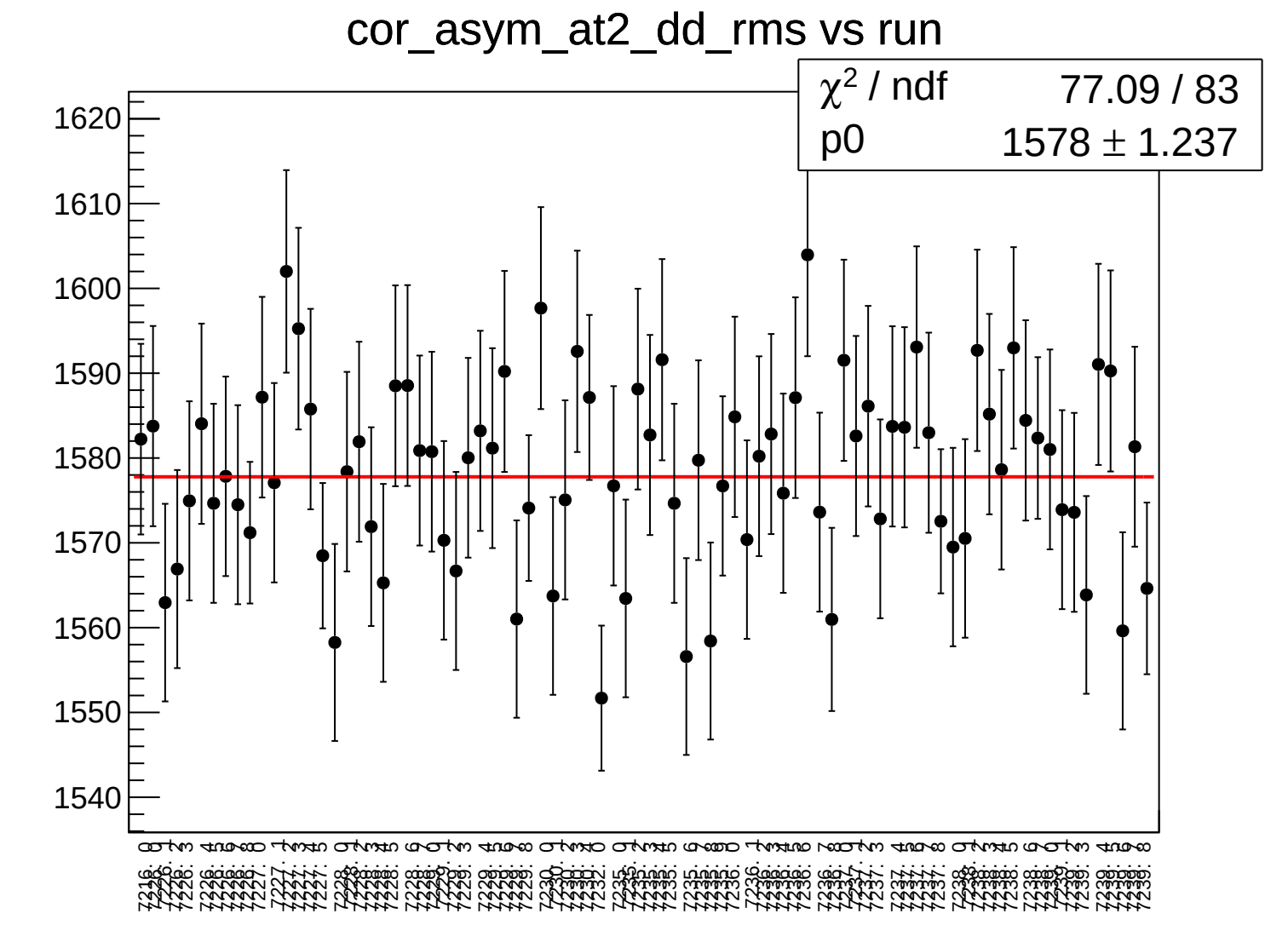

asym_at2_dd_reg_correction_mean vs run
χ² / ndf 76.79 / 83
p0 1664 ± 757.7
30000
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 6335
Std Dev 0
2
1
0
−1
−2

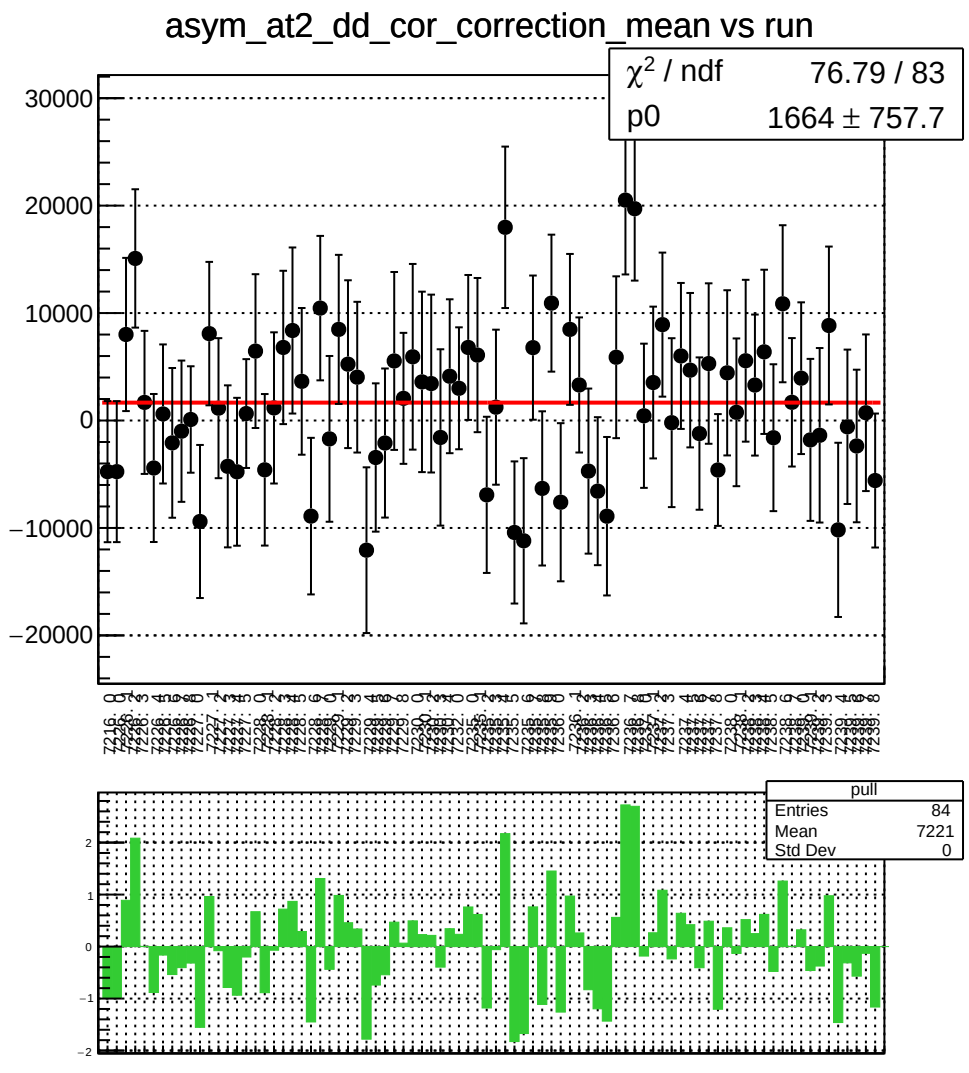

pull1D
Entries 84
Mean 0.0001894
Std Dev 0.9561
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

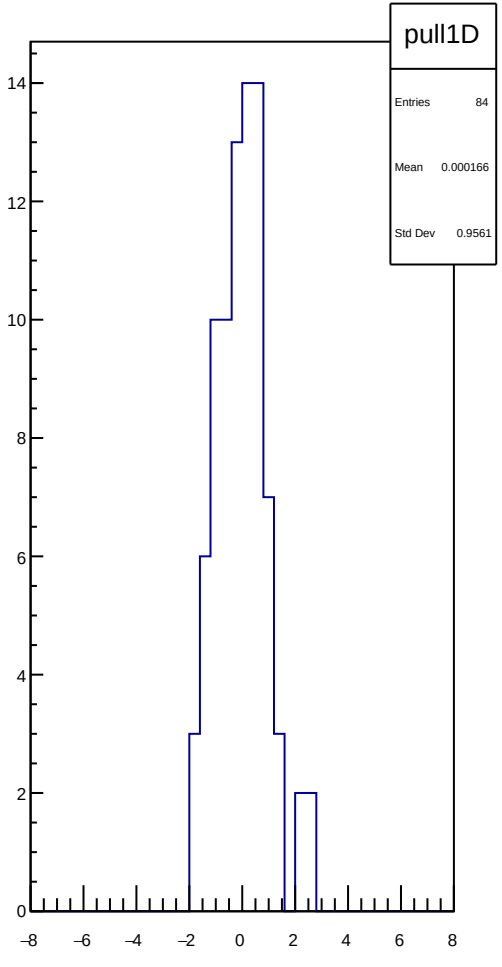

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 7740 / 83
p0 681.7 ± 0.5358
850
800
750
700
650
600

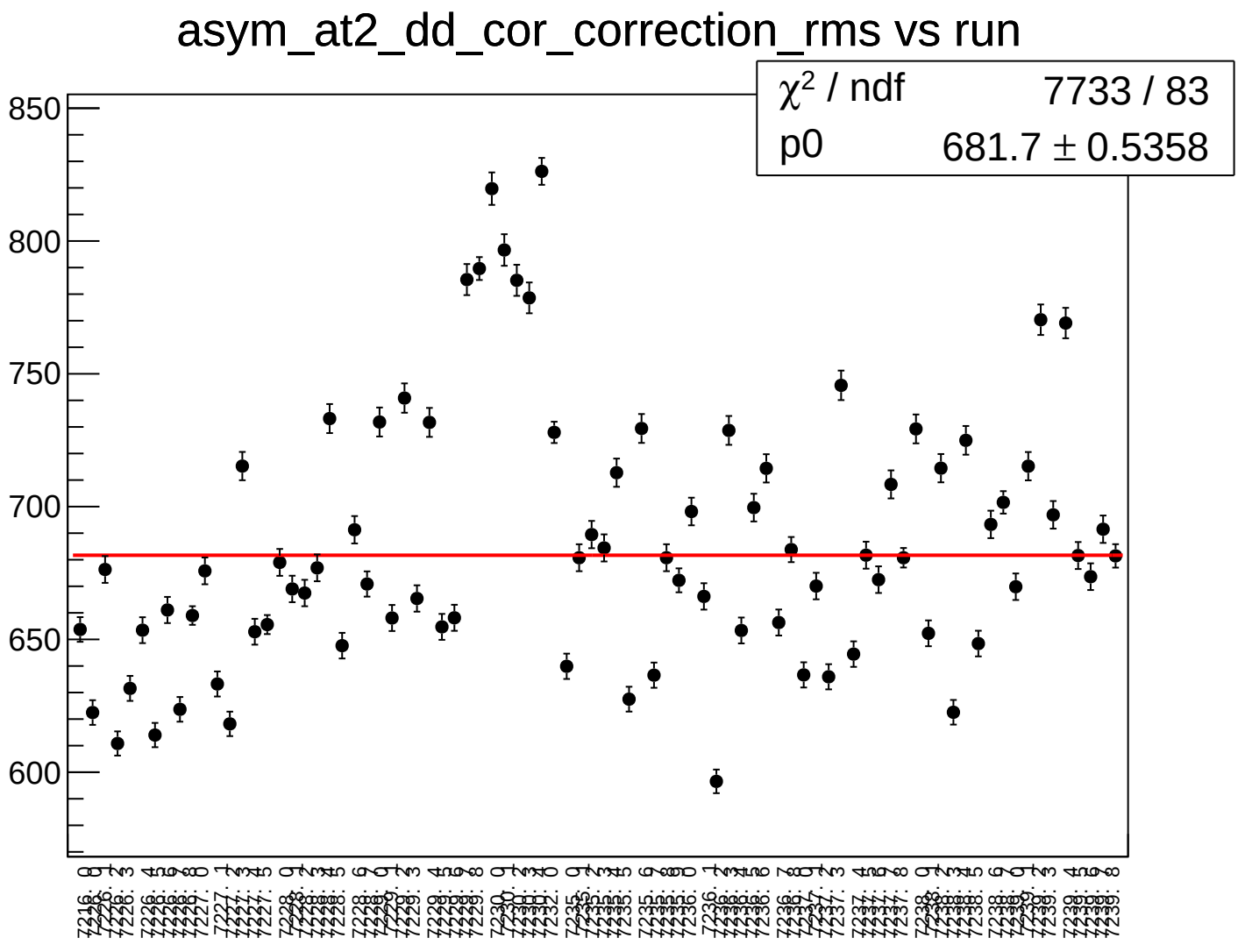

cor_asym_at2_dd_mean vs run
χ² / ndf 82.55 / 83
p0 −1091 ± 1750
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 413.9
Std Dev 0
2
1
0
−1
−2

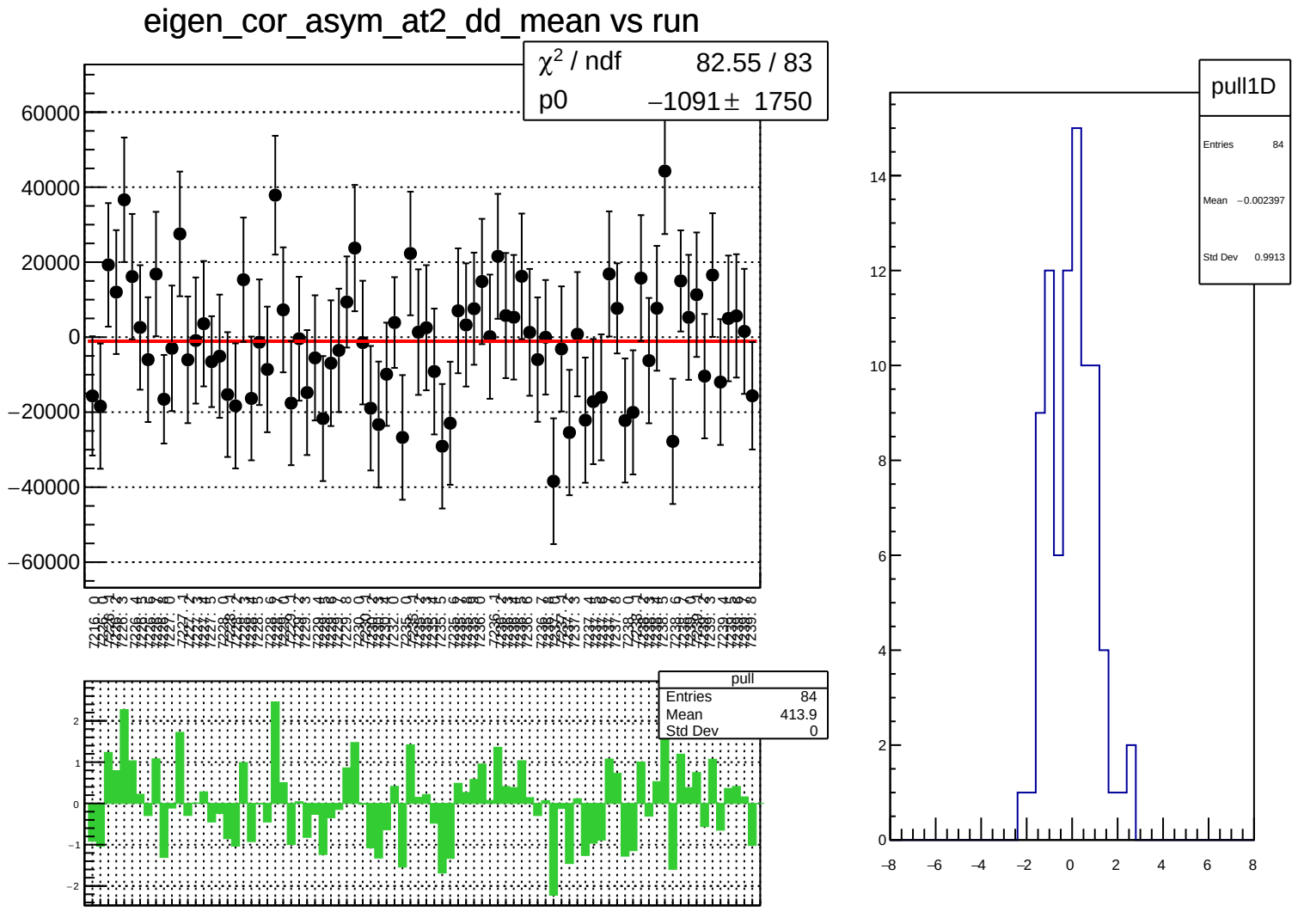

pull1D
Entries 84
Mean −0.002397
Std Dev 0.9913
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

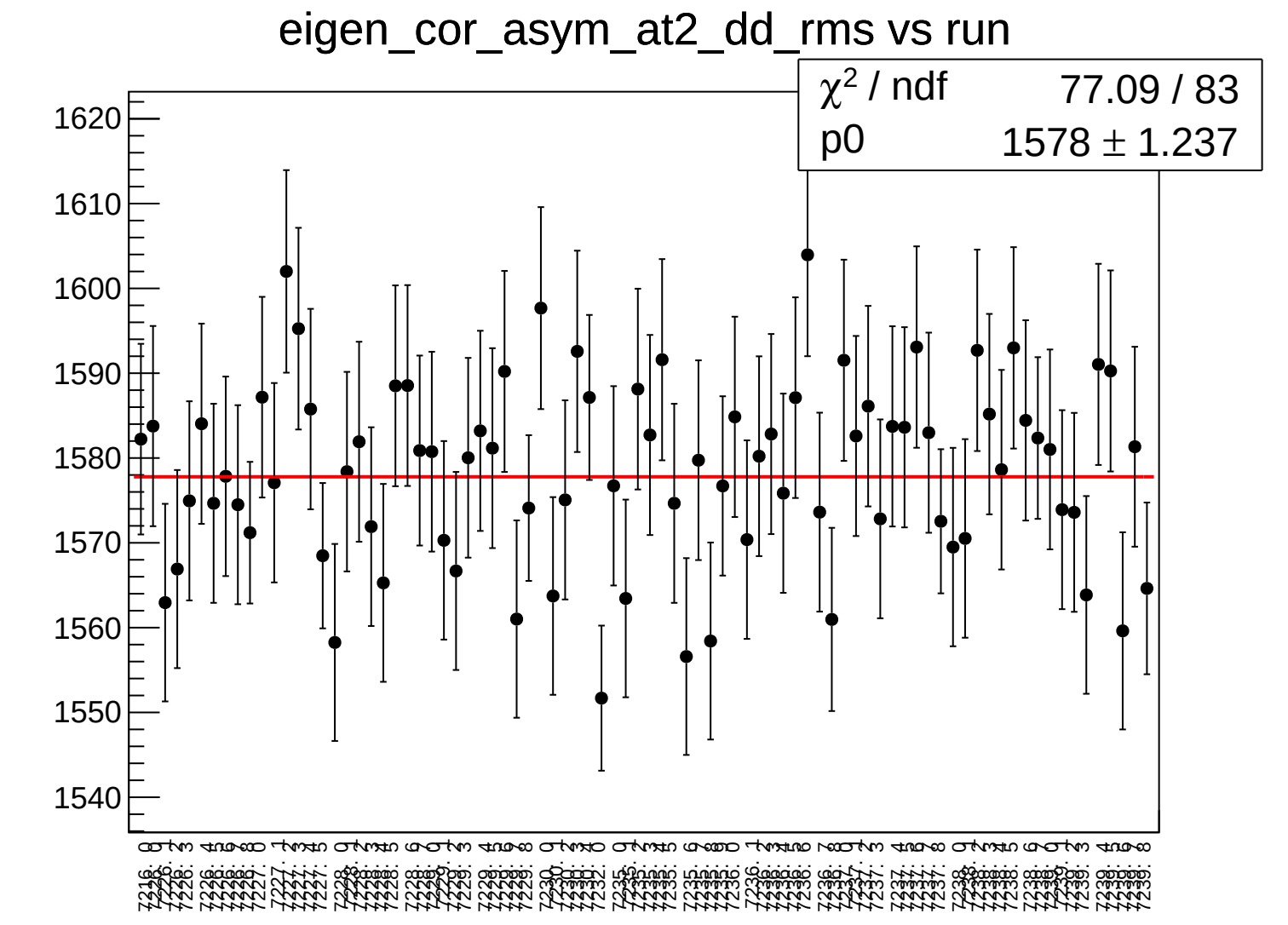

cor_asym_at2_dd_rms vs run
χ² / ndf 77.09 / 83
p0 1578 ± 1.237
1620
1610
1600
1590
1580
1570
1560
1550
1540

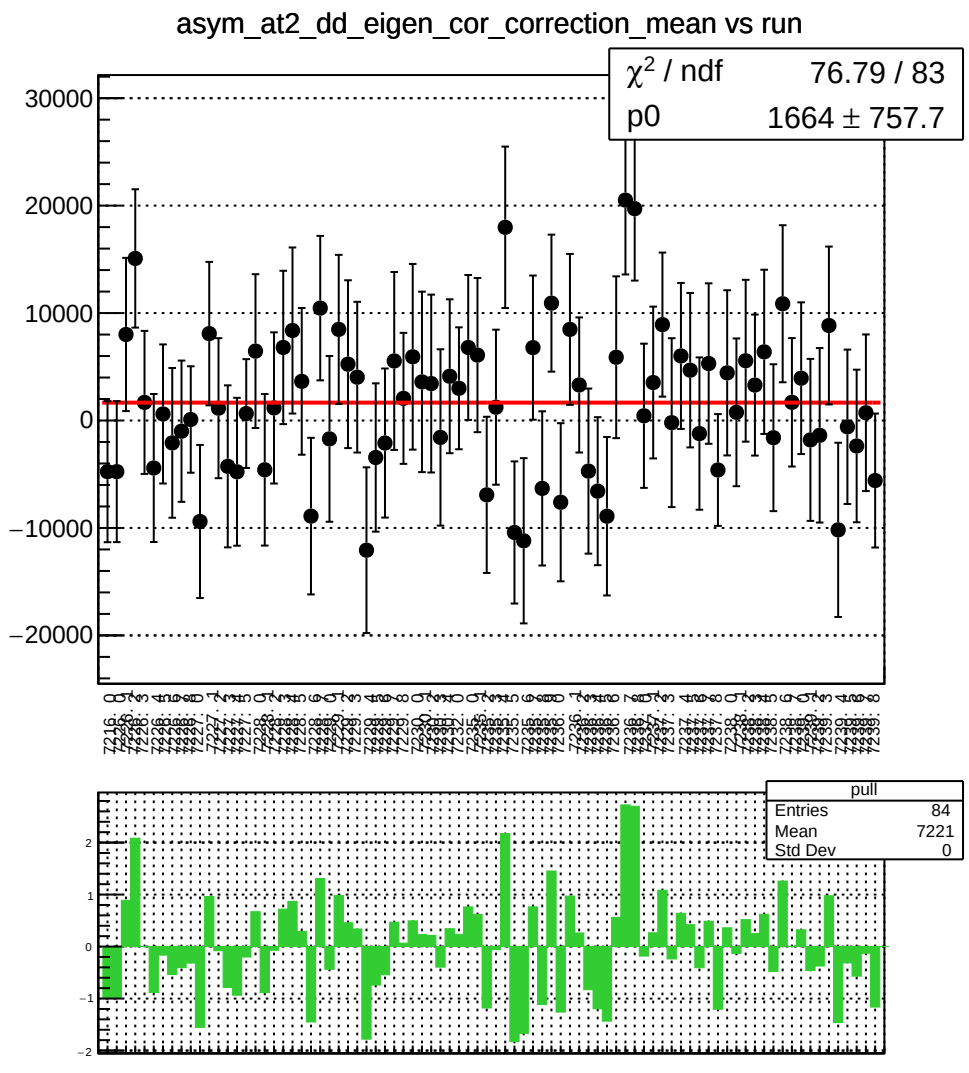

asym_at2_dd_cor_correction_mean vs run
χ² / ndf 76.79 / 83
p0 1664 ± 757.7
30000
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 7221
Std Dev 0
2
1
0
−1
−2

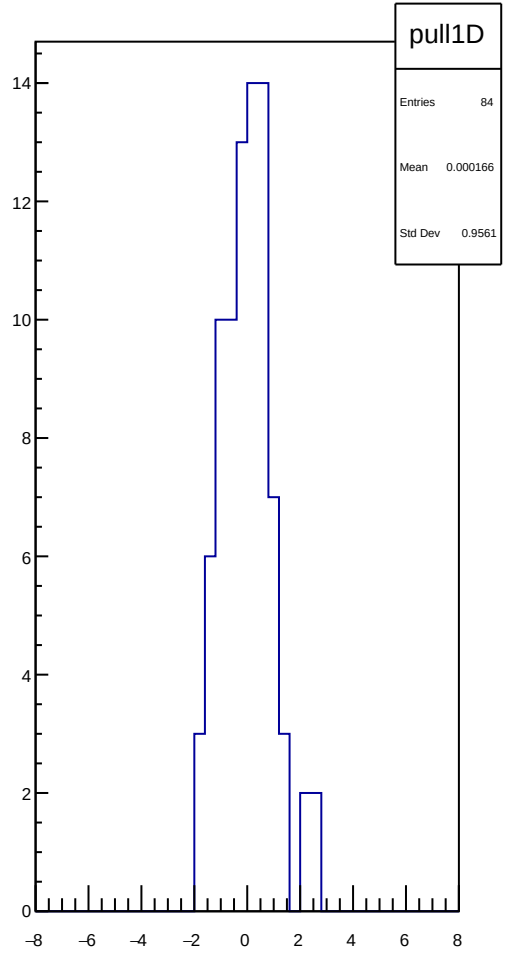

pull1D
Entries 84
Mean 0.000166
Std Dev 0.9561
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

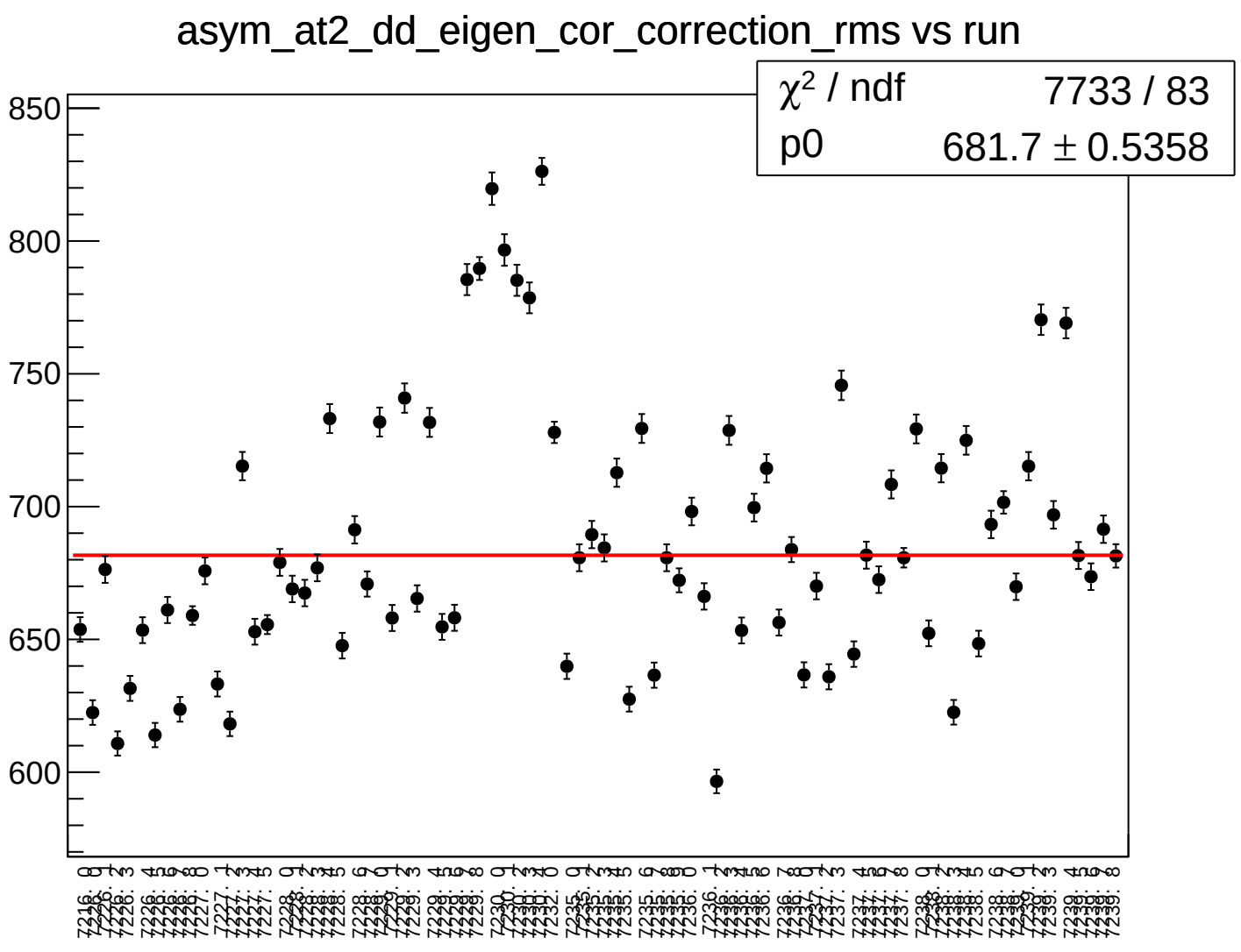

asym_at2_dd_cor_correction_rms vs run
χ² / ndf 7733 / 83
p0 681.7 ± 0.5358
850
800
750
700
650
600

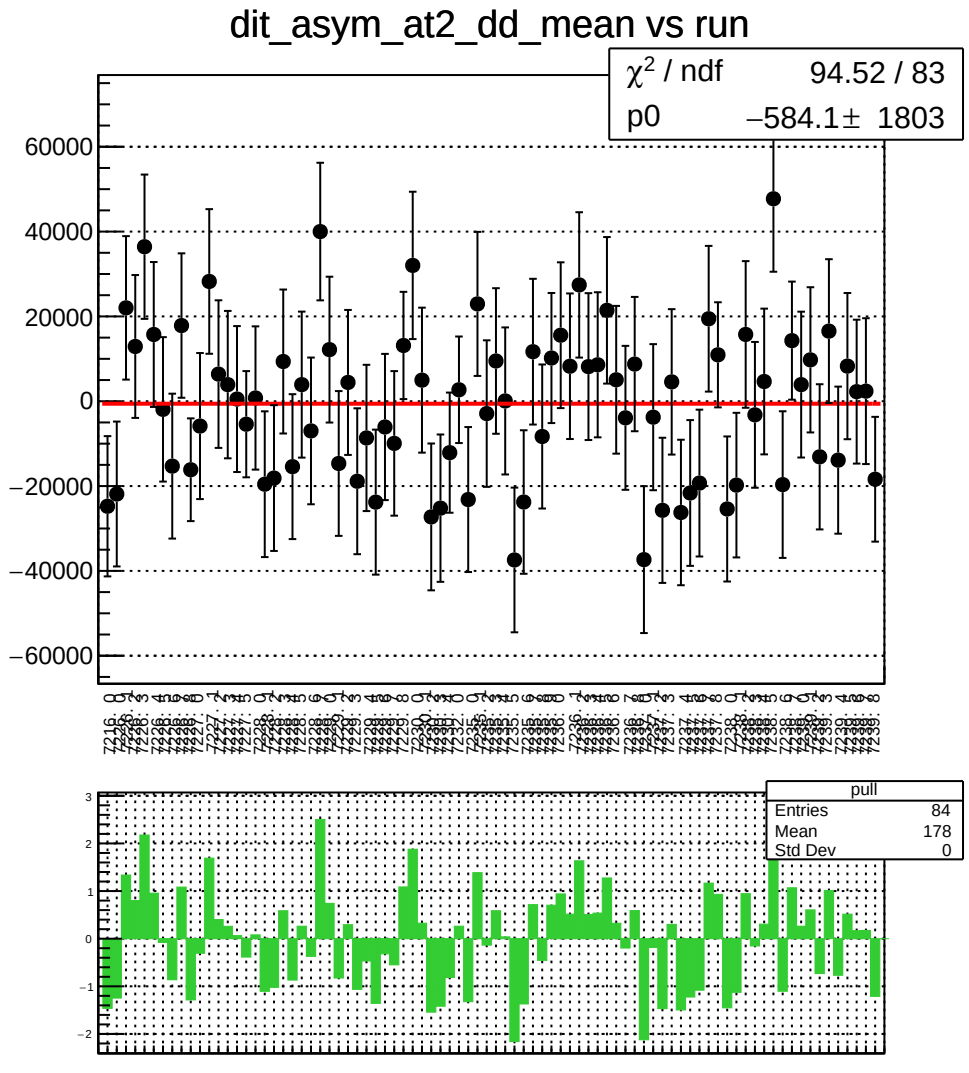

eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 82.55 / 83
p0 −1091 ± 1750
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 413.9
Std Dev 0
pull1D
Entries 84
Mean −0.002397
Std Dev 0.9913

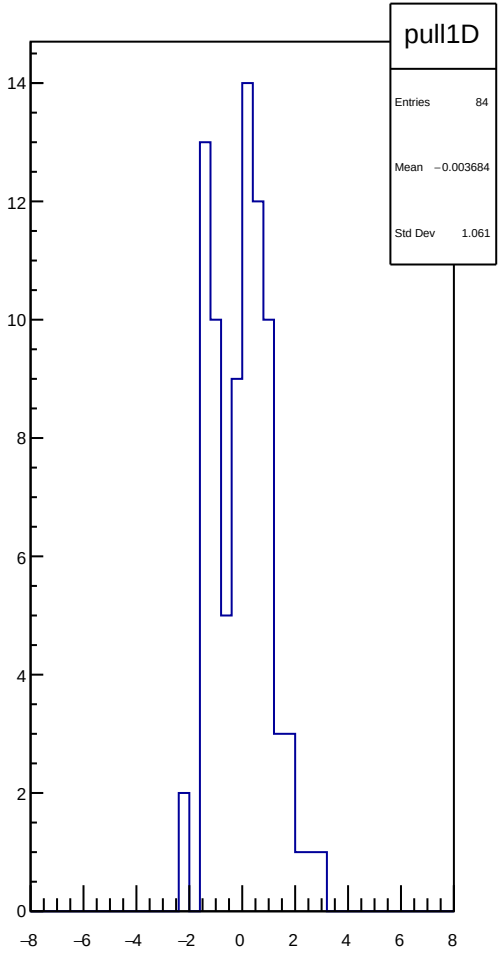

eigen_cor_asym_at2_dd_rms vs run
χ^2 / ndf 77.09 / 83
p0 1578 ± 1.237
1620
1610
1600
1590
1580
1570
1560
1550
1540

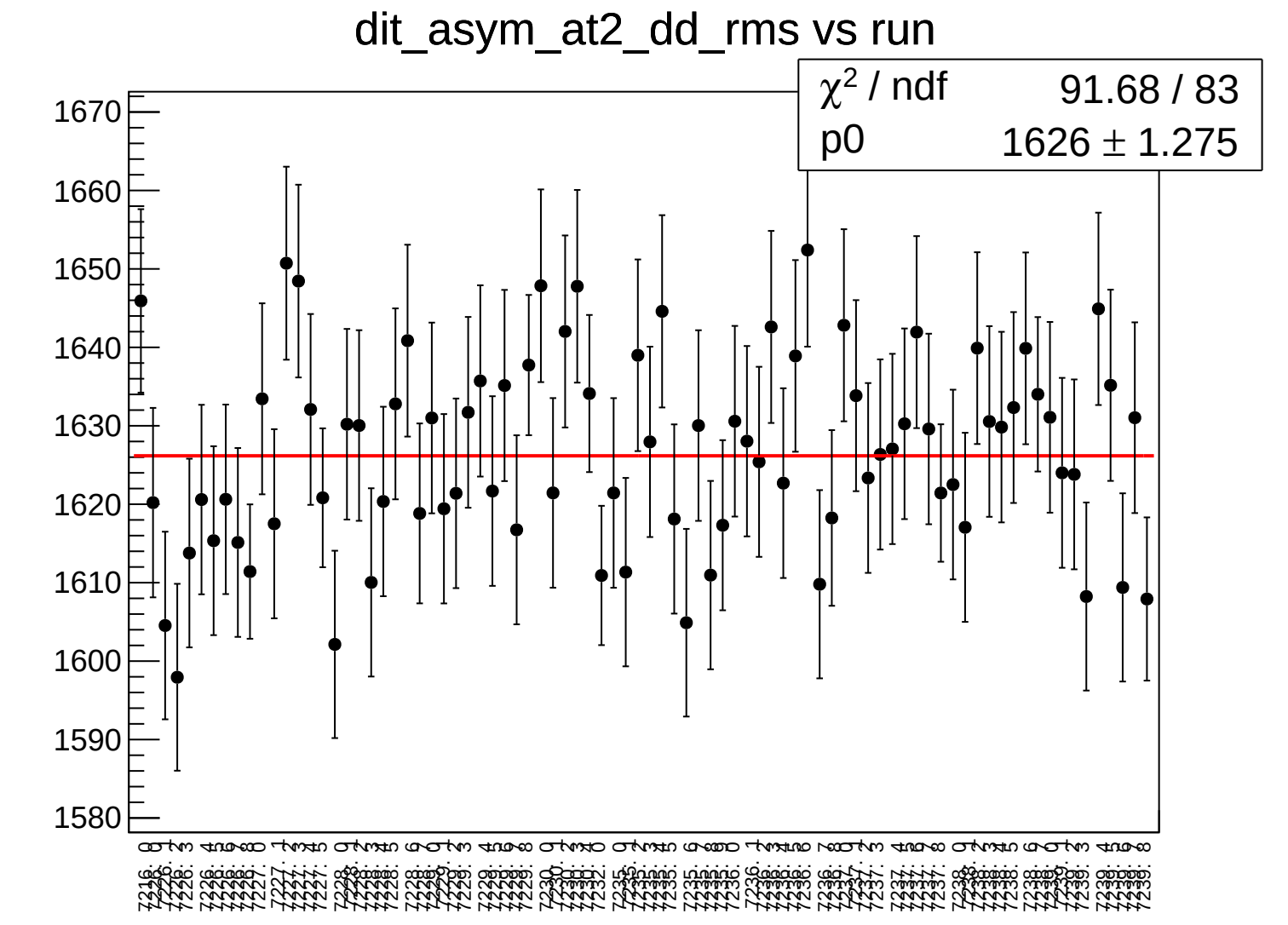

asym_at2_dd_eigen_cor_correction_mean vs run
χ² / ndf 76.79 / 83
p0 1664 ± 757.7
pull
Entries 84
Mean 7221
Std Dev 0

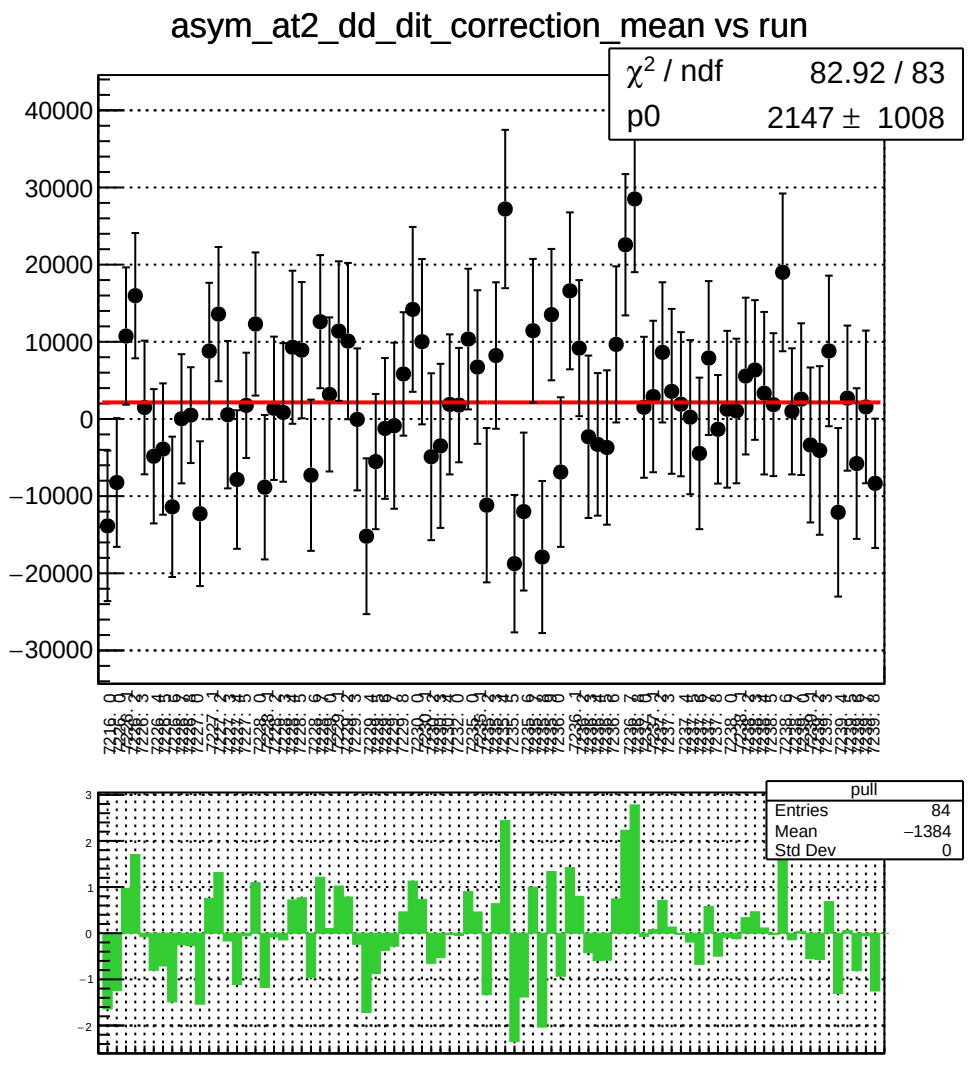

pull1D
Entries 84
Mean 0.000166
Std Dev 0.9561

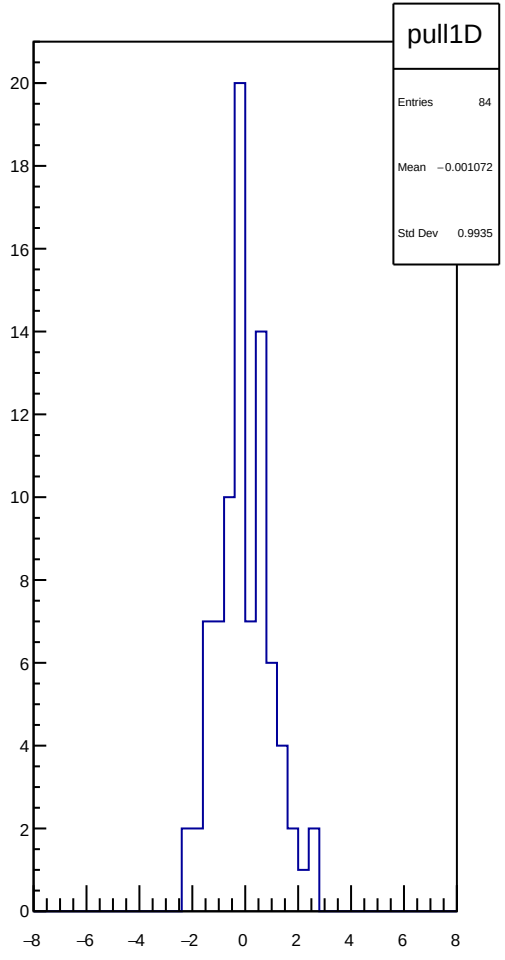

asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 7733 / 83
p0 681.7 ± 0.5358
850
800
750
700
650
600

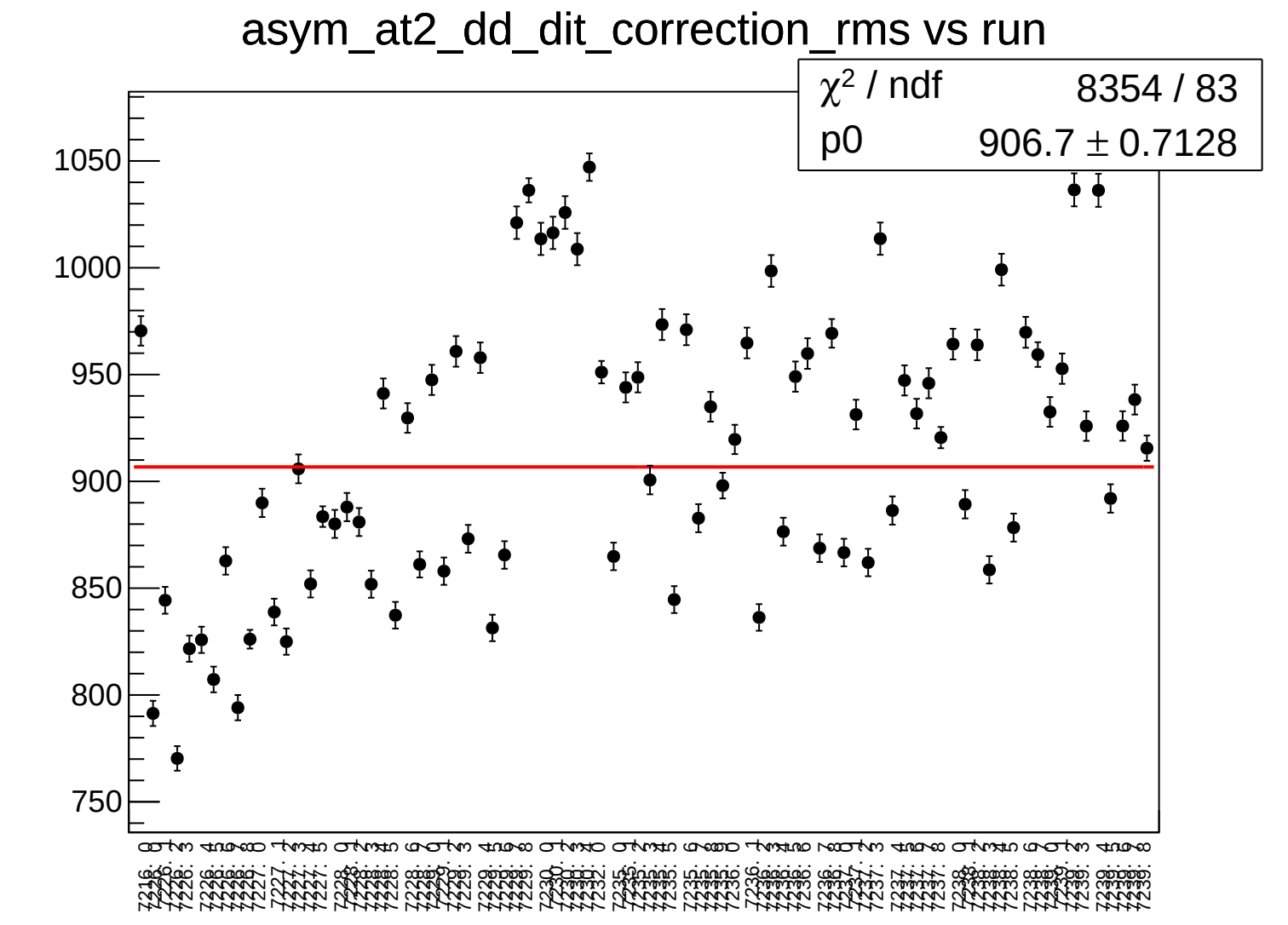

dit_asym_at2_dd_mean vs run
χ² / ndf 94.52 / 83
p0 −584.1± 1803
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 178
Std Dev 0
3
2
1
0
−1
−2

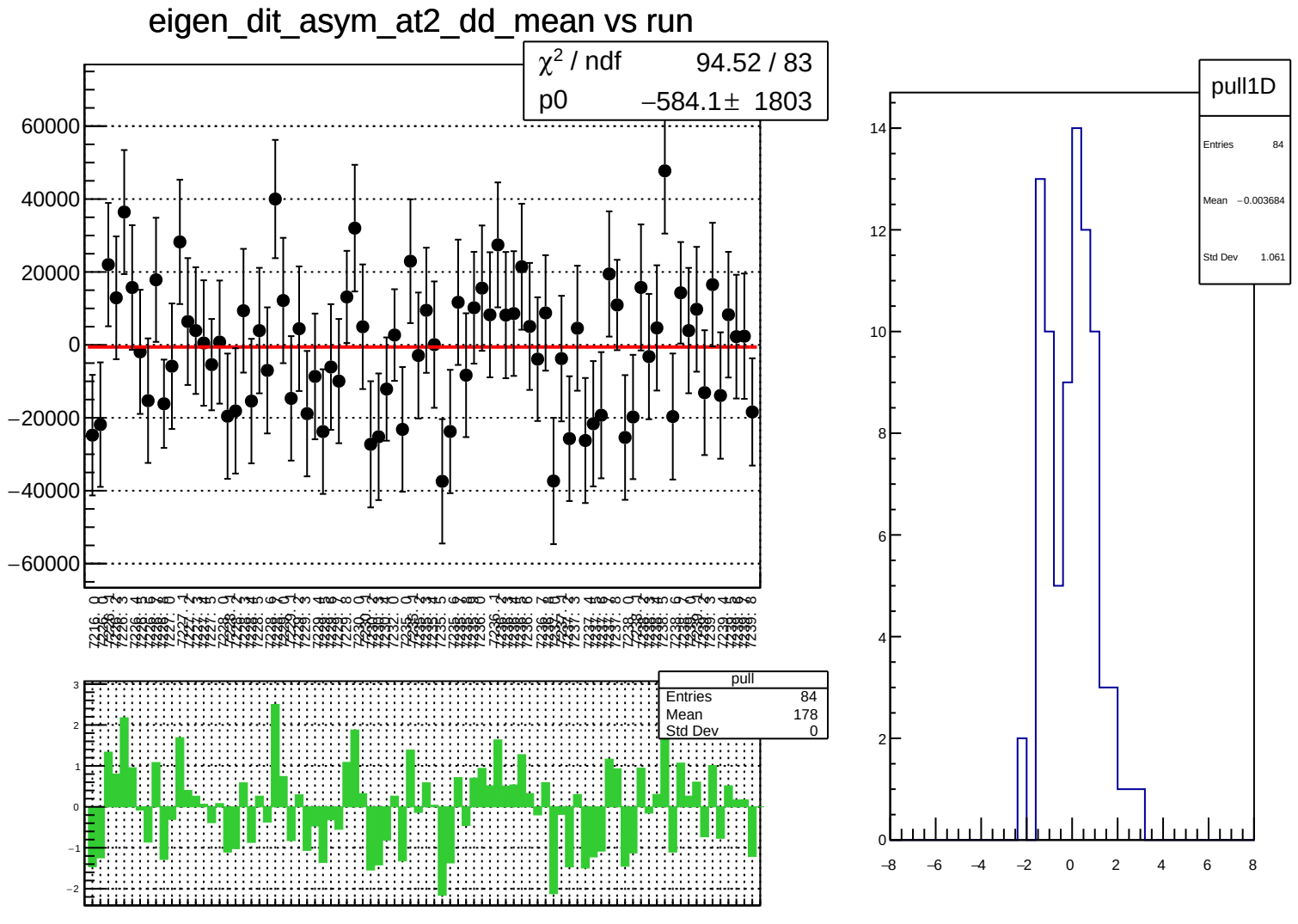

pull1D
Entries 84
Mean −0.003684
Std Dev 1.061
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

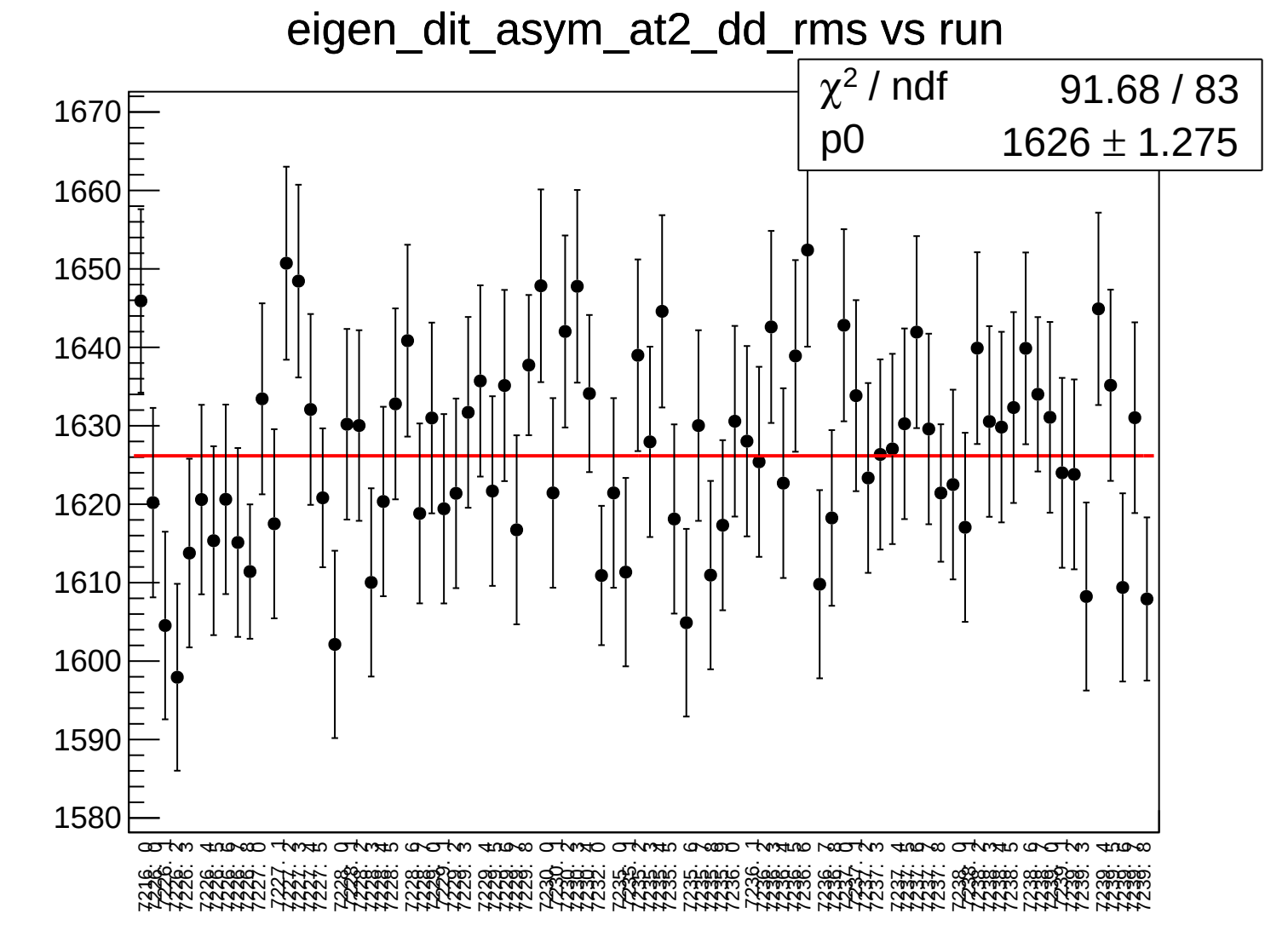

dit_asym_at2_dd_rms vs run
χ^2 / ndf 91.68 / 83
p0 1626 ± 1.275
1670
1660
1650
1640
1630
1620
1610
1600
1590
1580

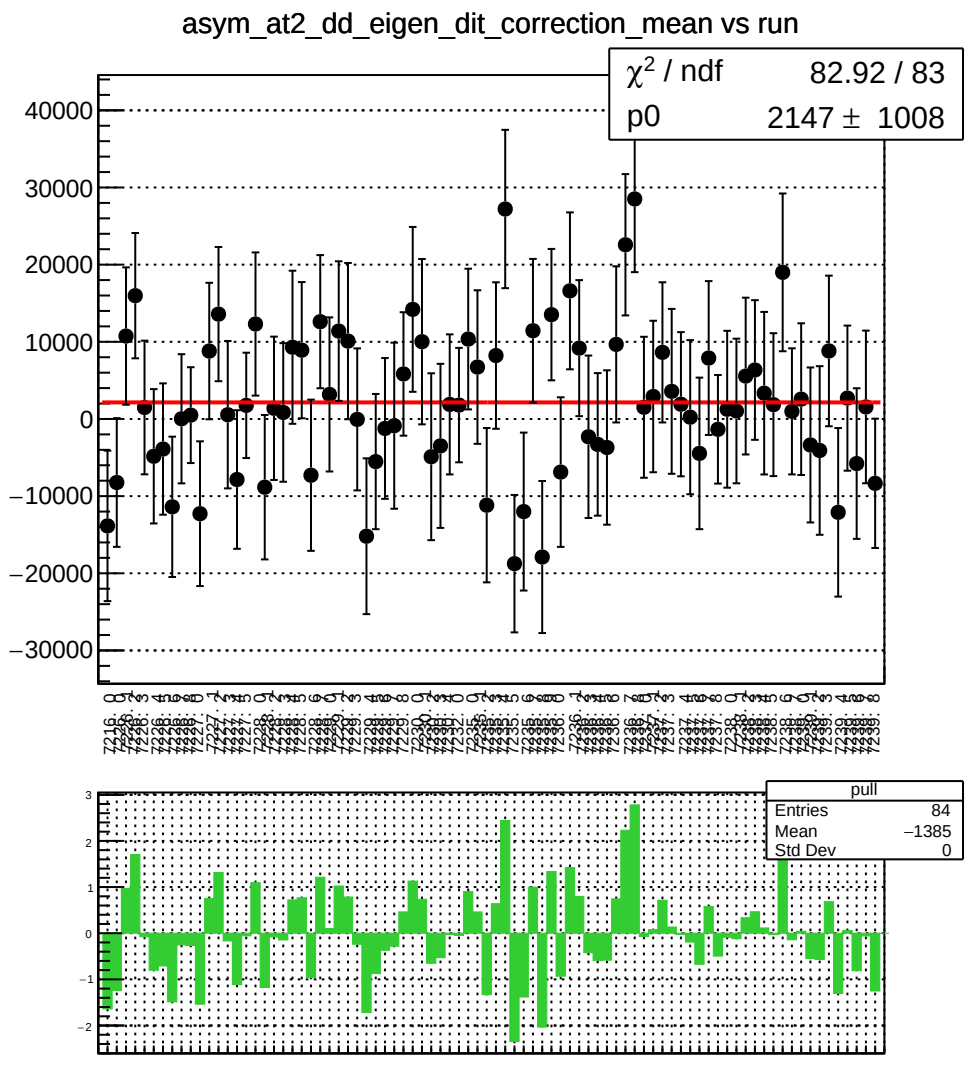

asym_at2_dd_dit_correction_mean vs run
χ² / ndf 82.92 / 83
p0 2147 ± 1008
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −1384
Std Dev 0
3
2
1
0
−1
−2

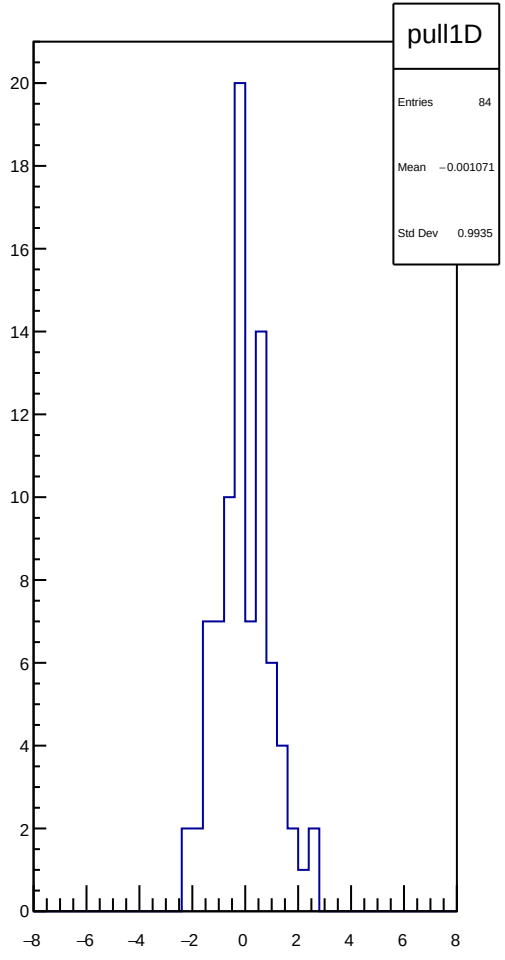

pull1D
Entries 84
Mean −0.001072
Std Dev 0.9935
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

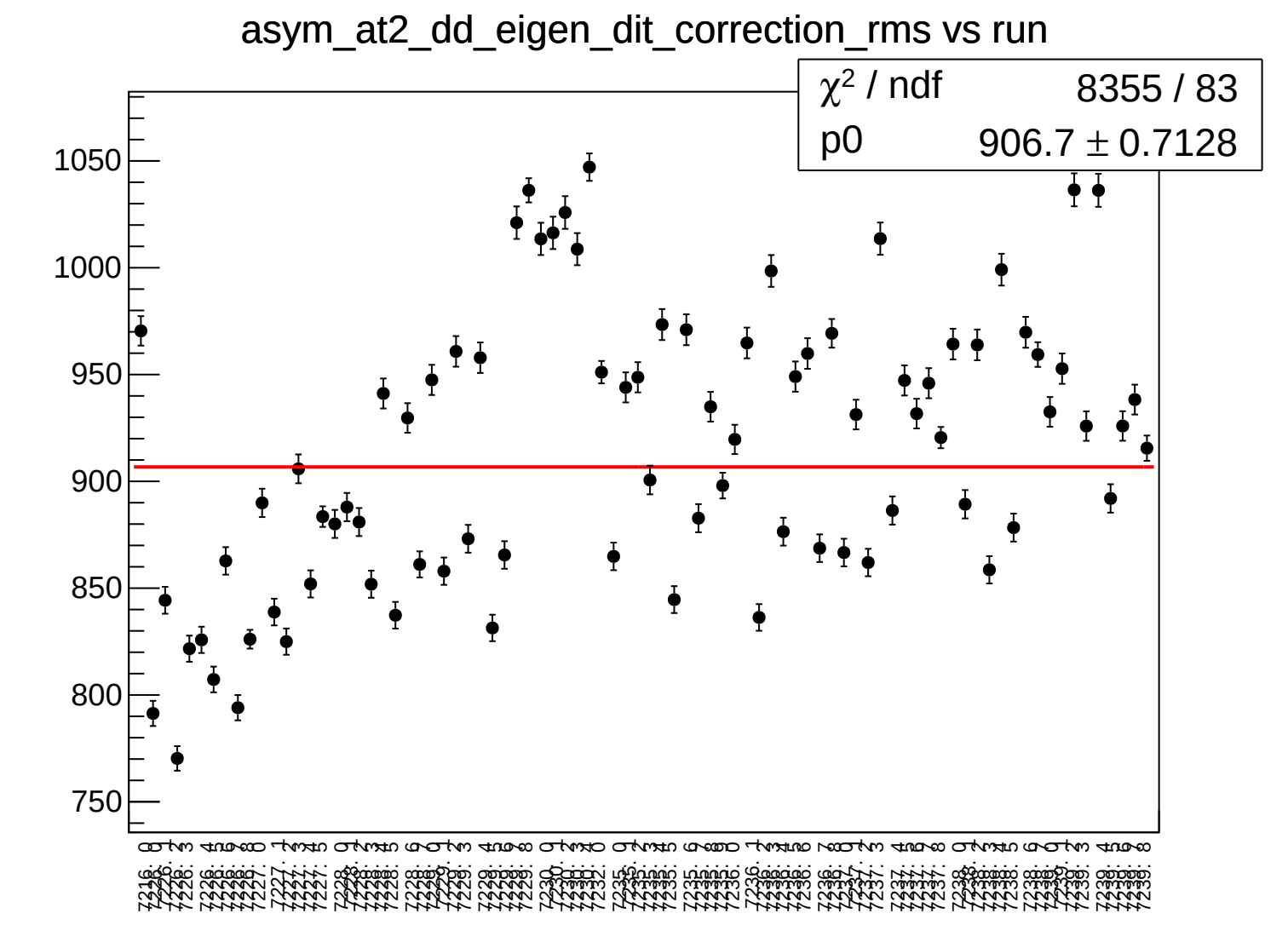

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 8354 / 83
p0 906.7 ± 0.7128
1050
1000
950
900
850
800
750

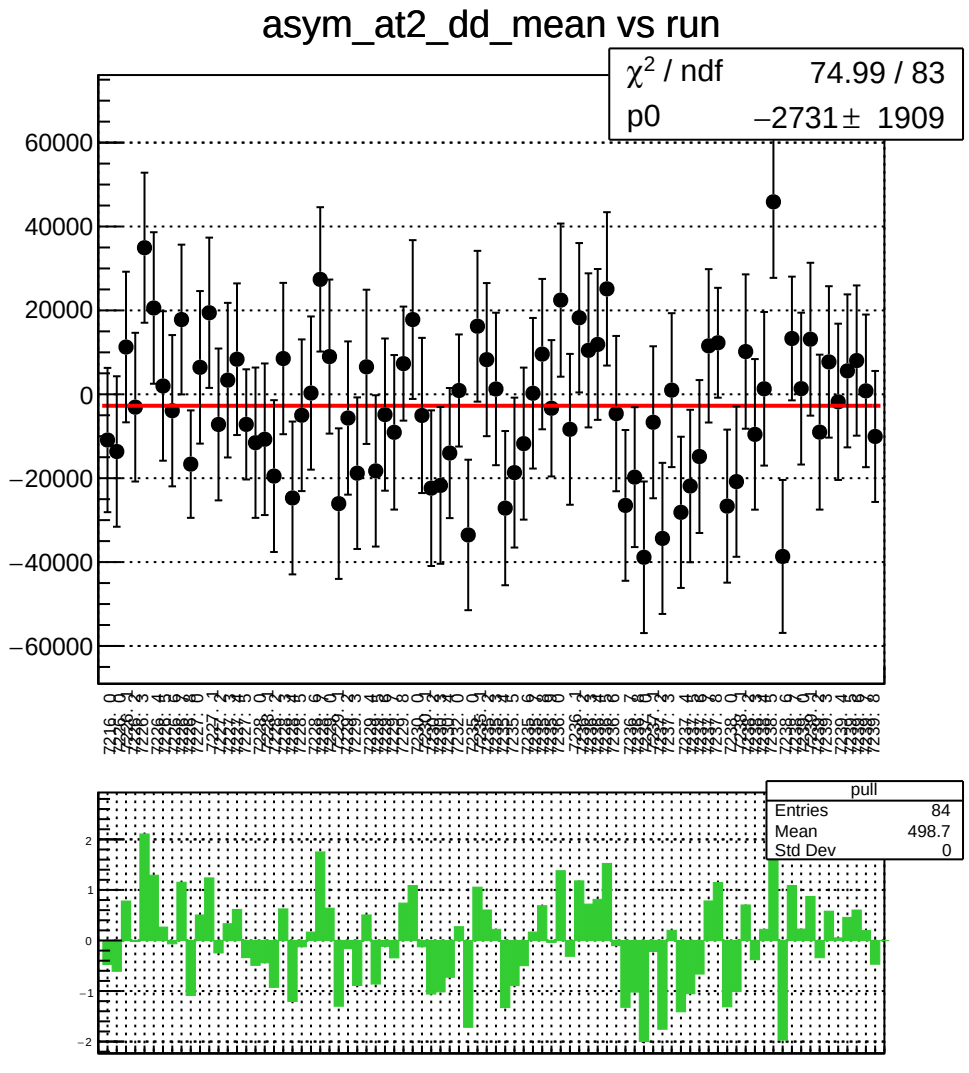

eigen_dit_asym_at2_dd_mean vs run
χ² / ndf 94.52 / 83
p0 −584.1± 1803
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 178
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.003684
Std Dev 1.061
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

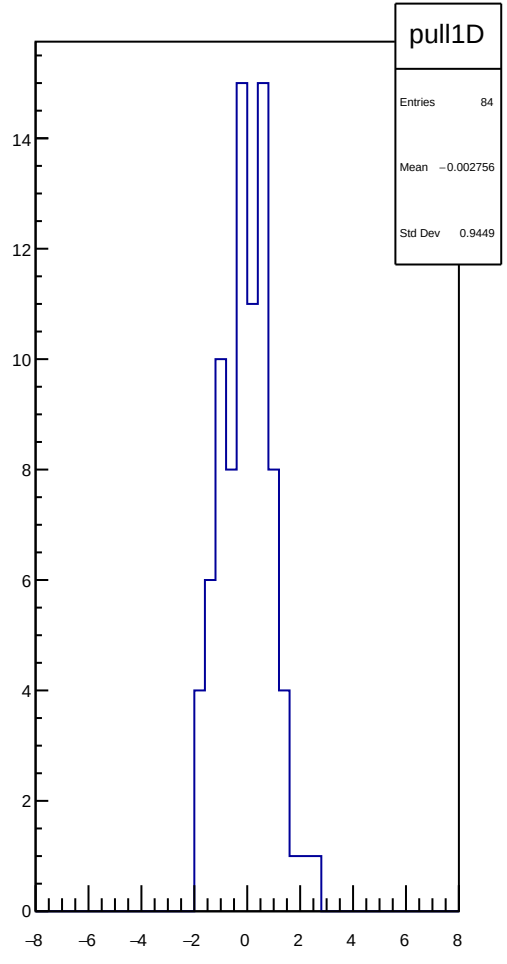

eigen_dit_asym_at2_dd_rms vs run
χ^2 / ndf 91.68 / 83
p0 1626 ± 1.275
1670
1660
1650
1640
1630
1620
1610
1600
1590
1580

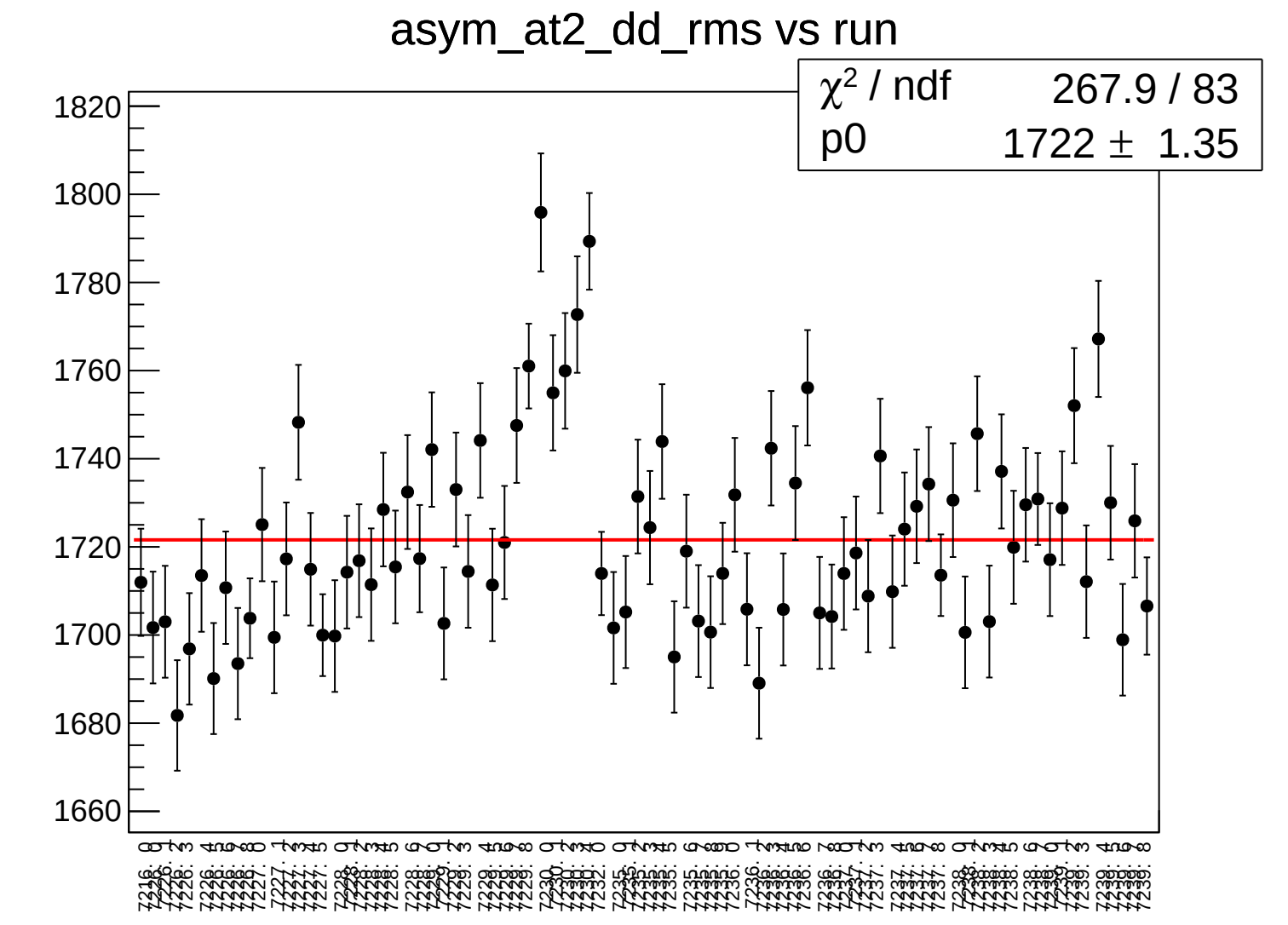

asym_at2_dd_eigen_dit_correction_mean vs run
χ² / ndf 82.92 / 83
p0 2147 ± 1008
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −1385
Std Dev 0
3
2
1
0
−1
−2

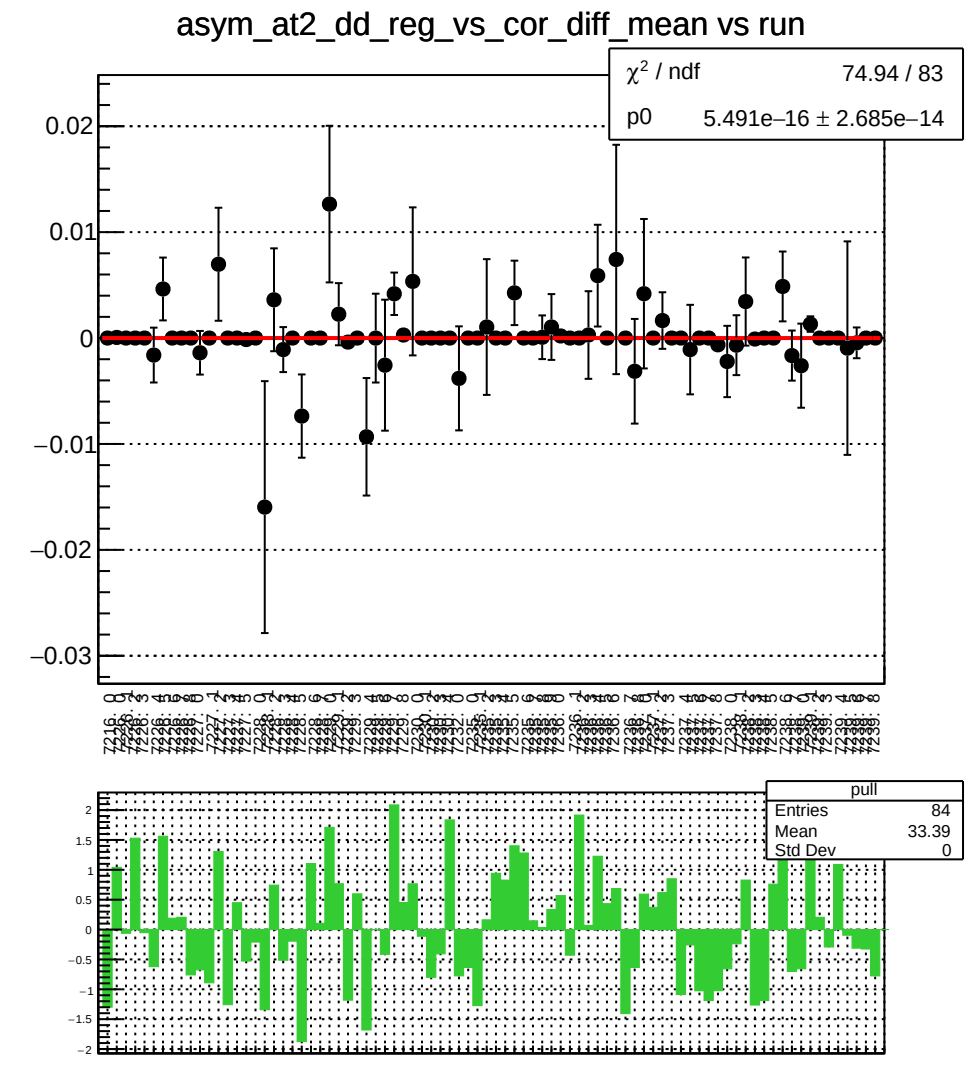

pull1D
Entries 84
Mean −0.001071
Std Dev 0.9935
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

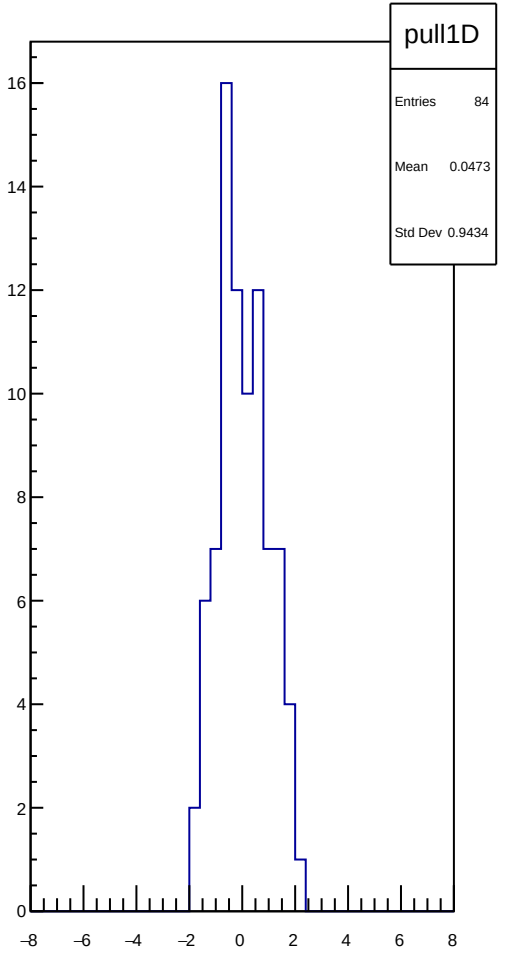

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 8355 / 83
p0 906.7 ± 0.7128
1050
1000
950
900
850
800
750

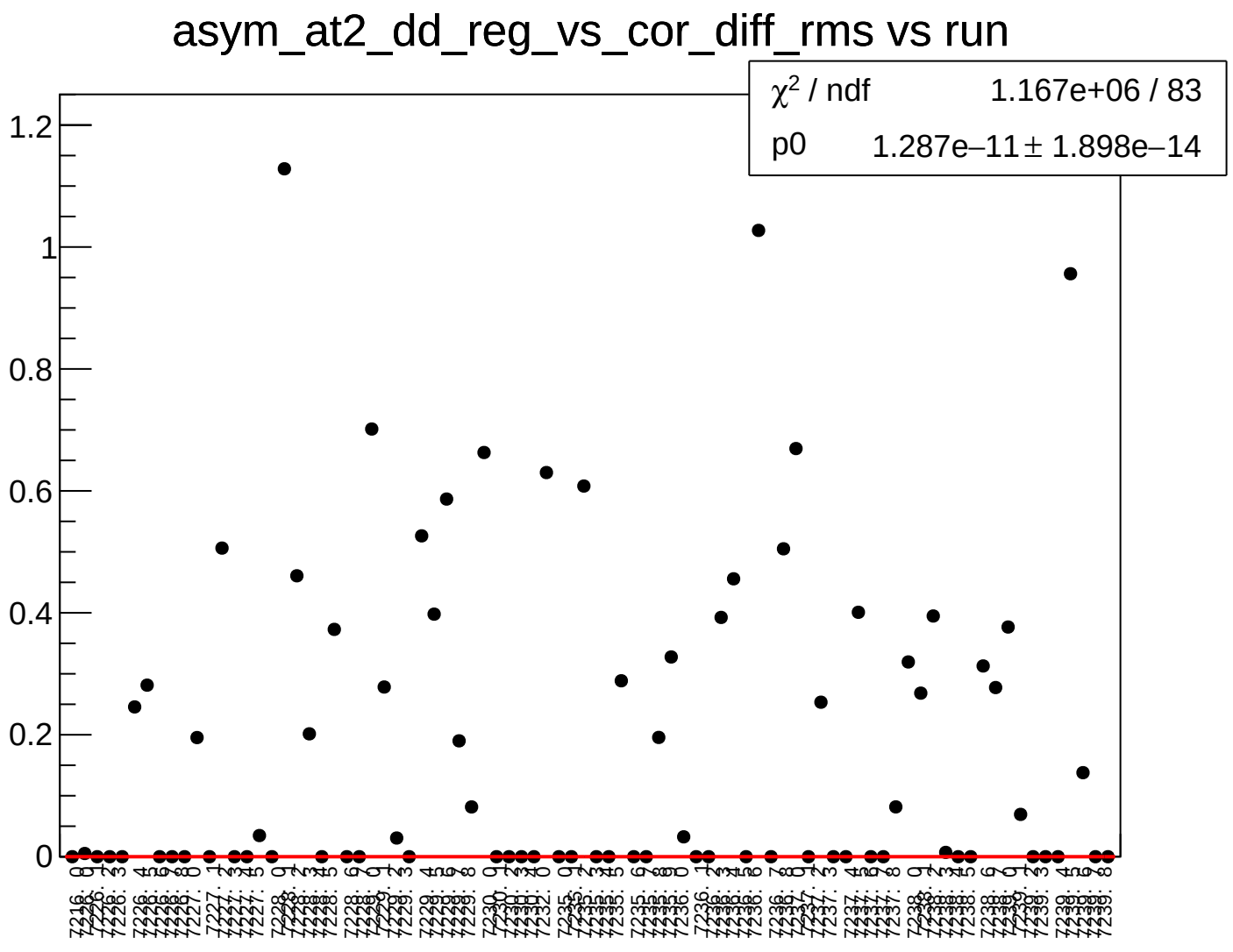

asym_at2_dd_mean vs run
χ² / ndf 74.99 / 83
p0 −2731 ± 1909
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 498.7
Std Dev 0
2
1
0
−1
−2

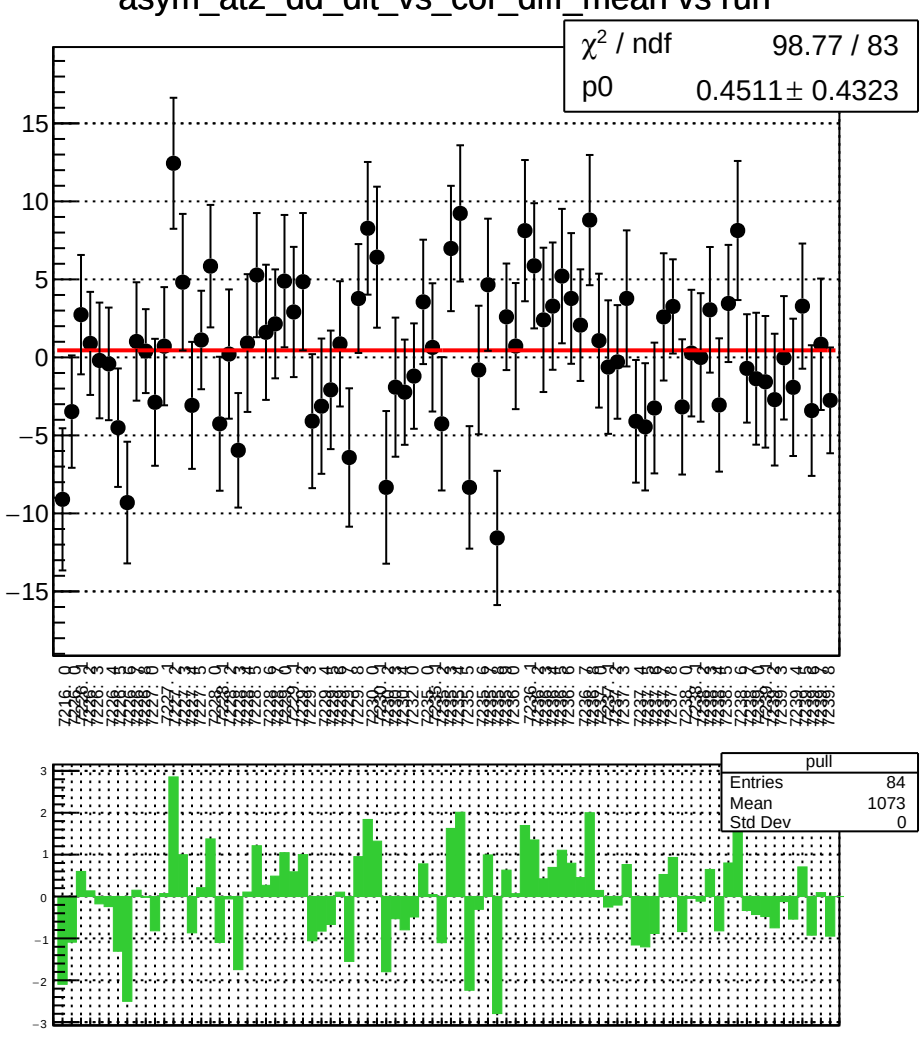

pull1D
Entries 84
Mean −0.002756
Std Dev 0.9449
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

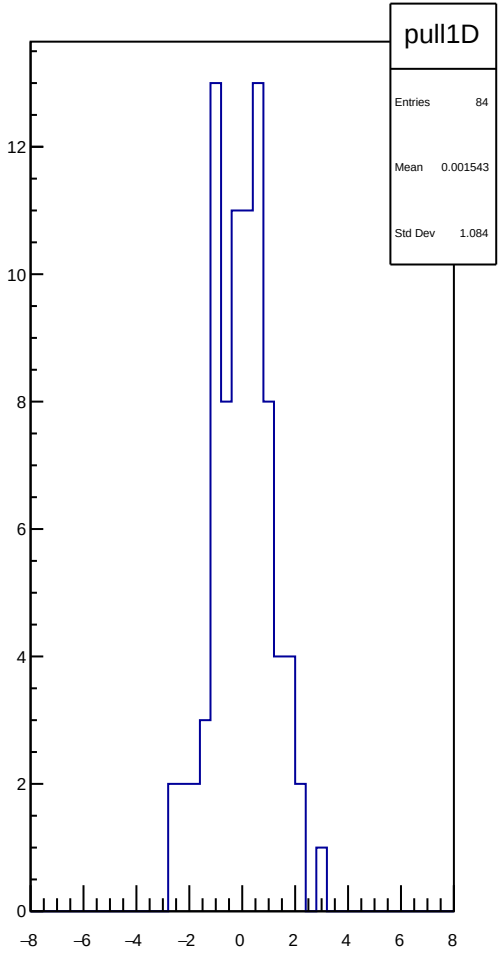

asym_at2_dd_rms vs run
χ^2 / ndf 267.9 / 83
p0 1722 ± 1.35
1820
1800
1780
1760
1740
1720
1700
1680
1660

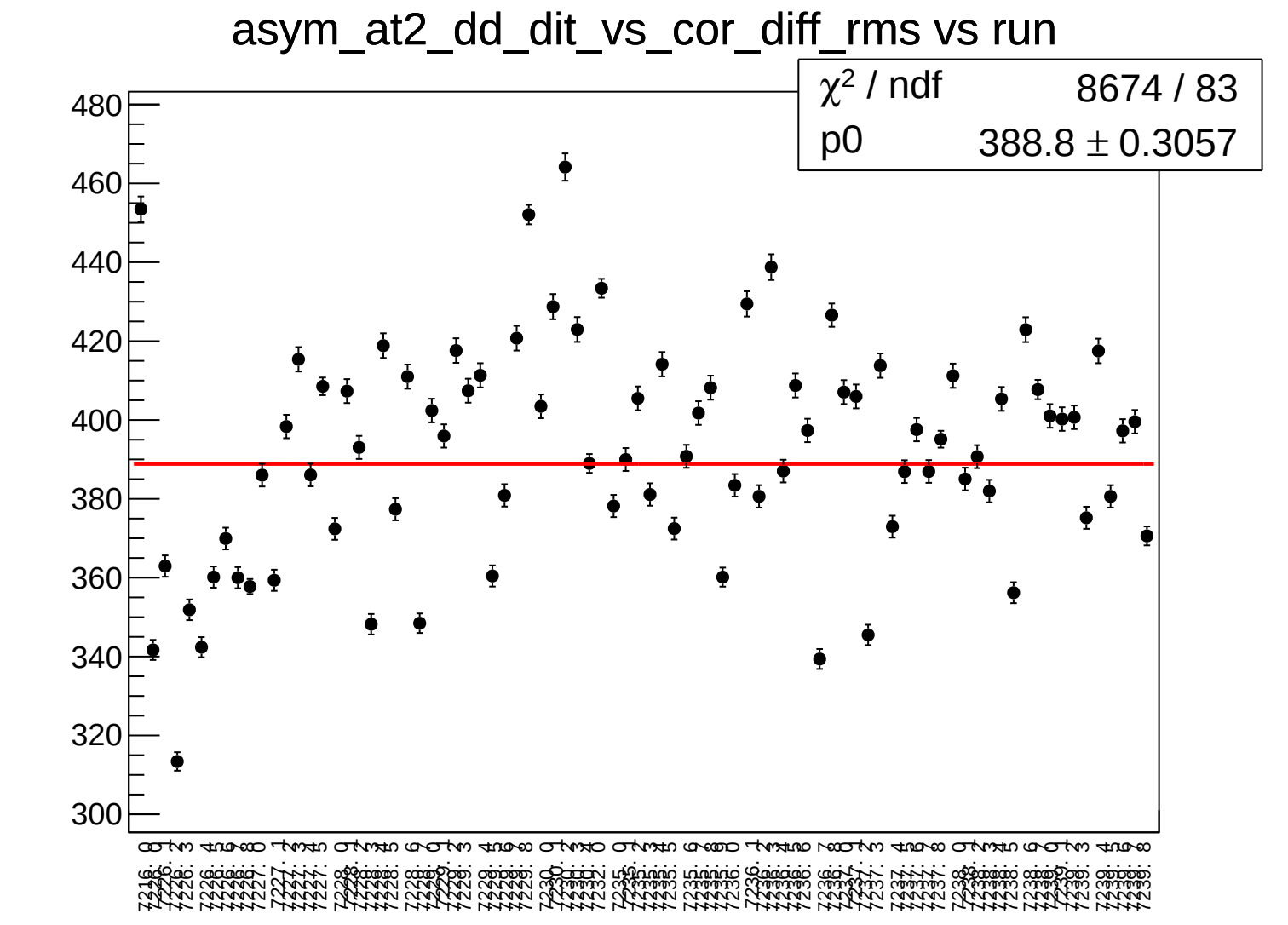

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 74.94 / 83
p0 5.491e−16 ± 2.685e−14
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 84
Mean 33.39
Std Dev 0

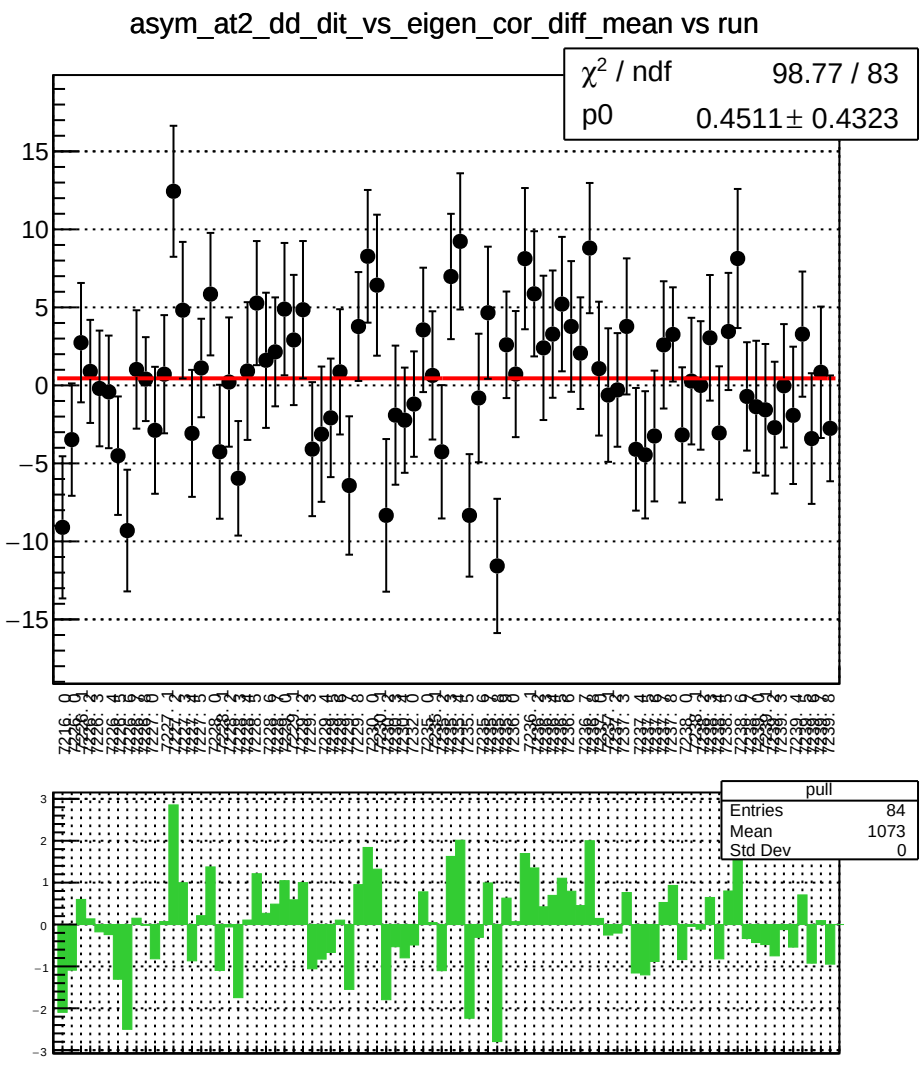

pull1D
Entries 84
Mean 0.0473
Std Dev 0.9434
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

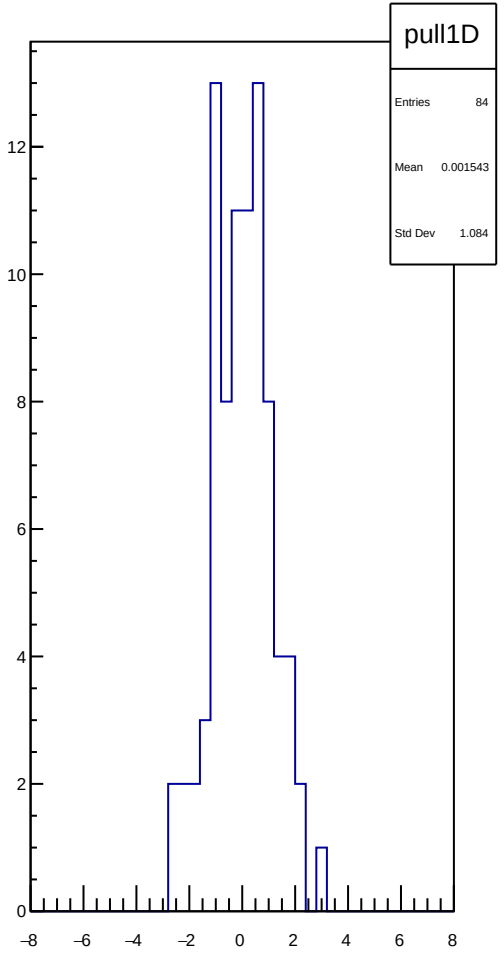

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.167e+06 / 83
p0 1.287e−11 ± 1.898e−14
1.2
1
0.8
0.6
0.4
0.2
0

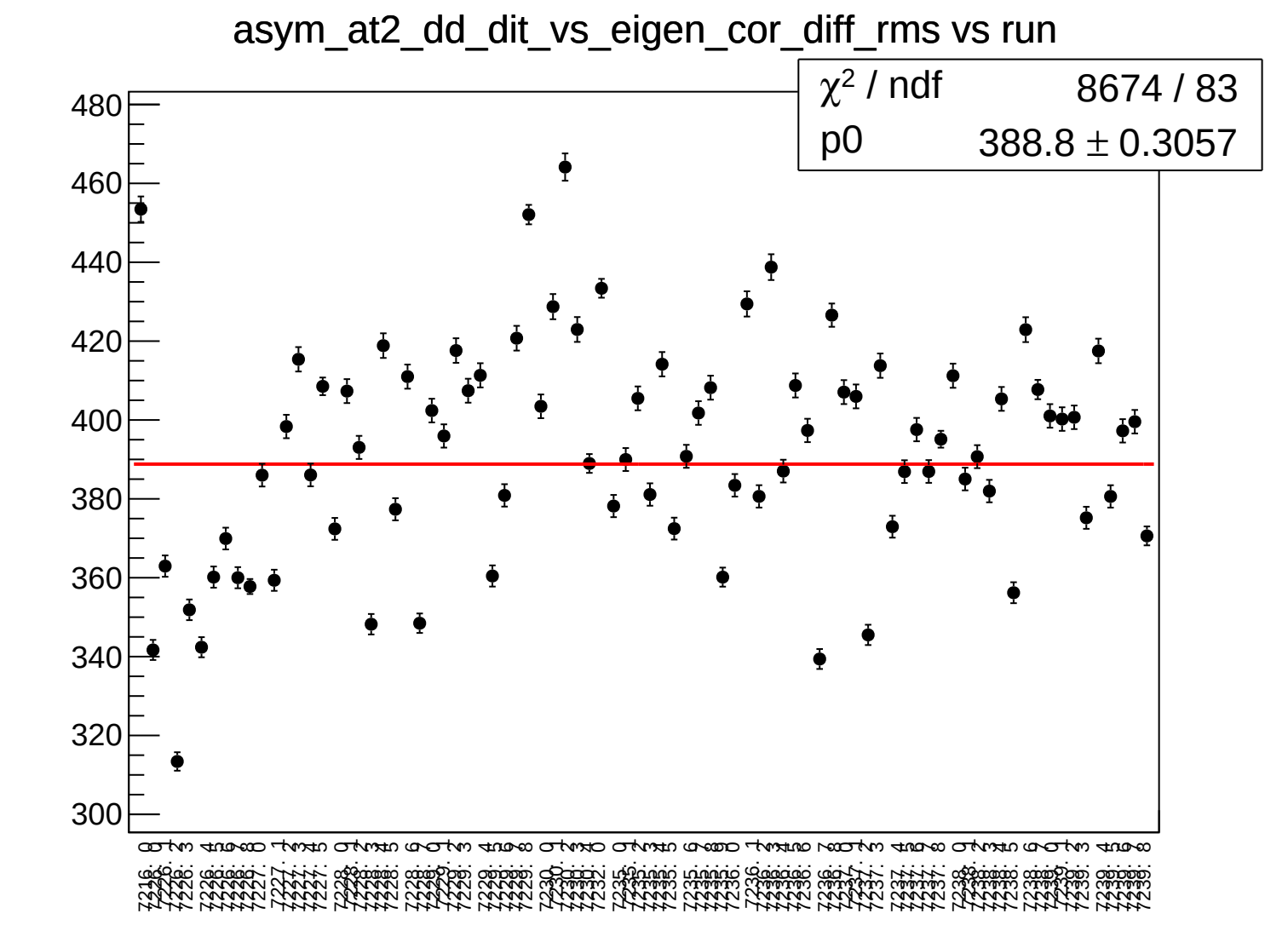

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 98.77 / 83
p0 0.4511 ± 0.4323
pull
Entries 84
Mean 1073
Std Dev 0

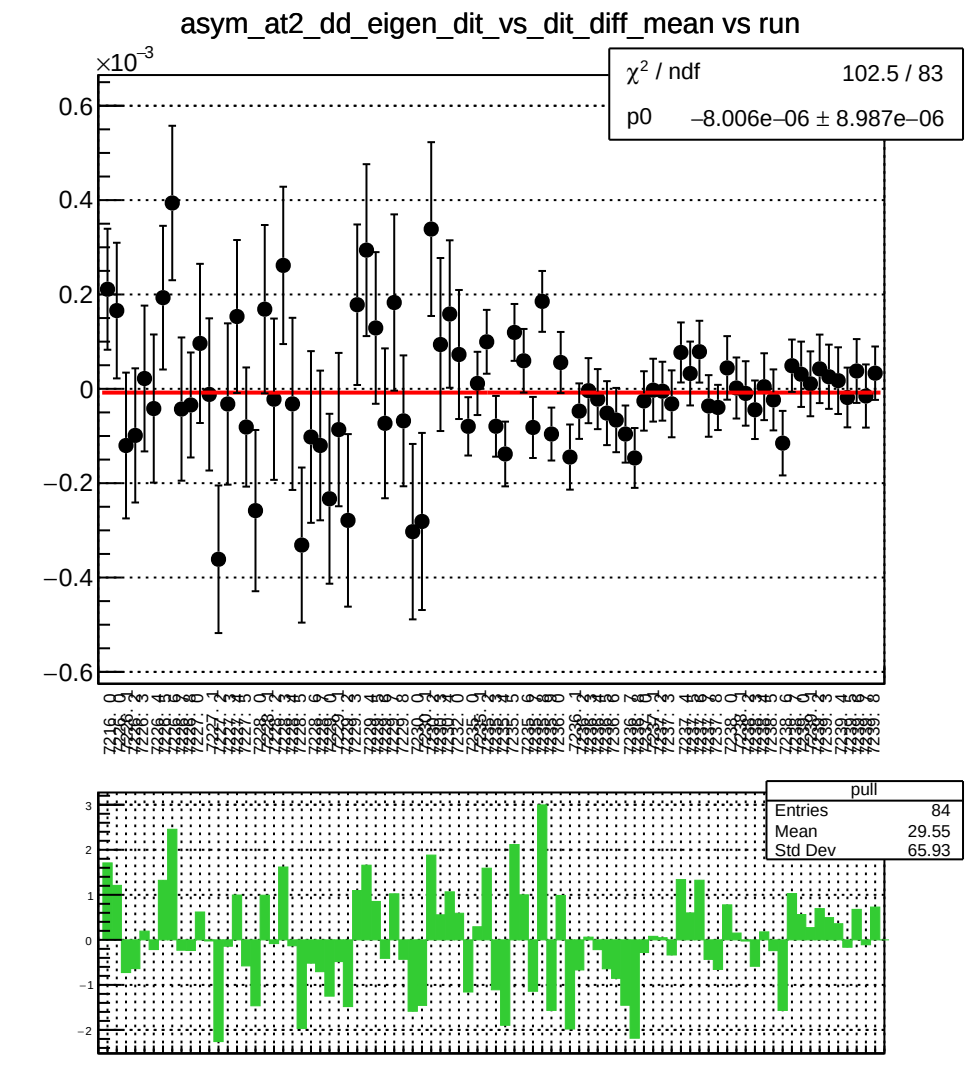

pull1D
Entries 84
Mean 0.001543
Std Dev 1.084

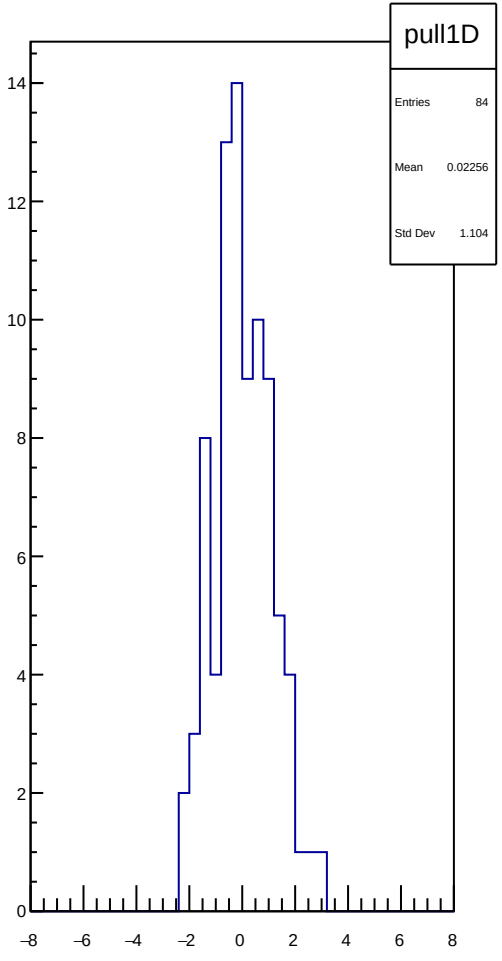

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8674 / 83
p0 388.8 ± 0.3057
480
460
440
420
400
380
360
340
320
300

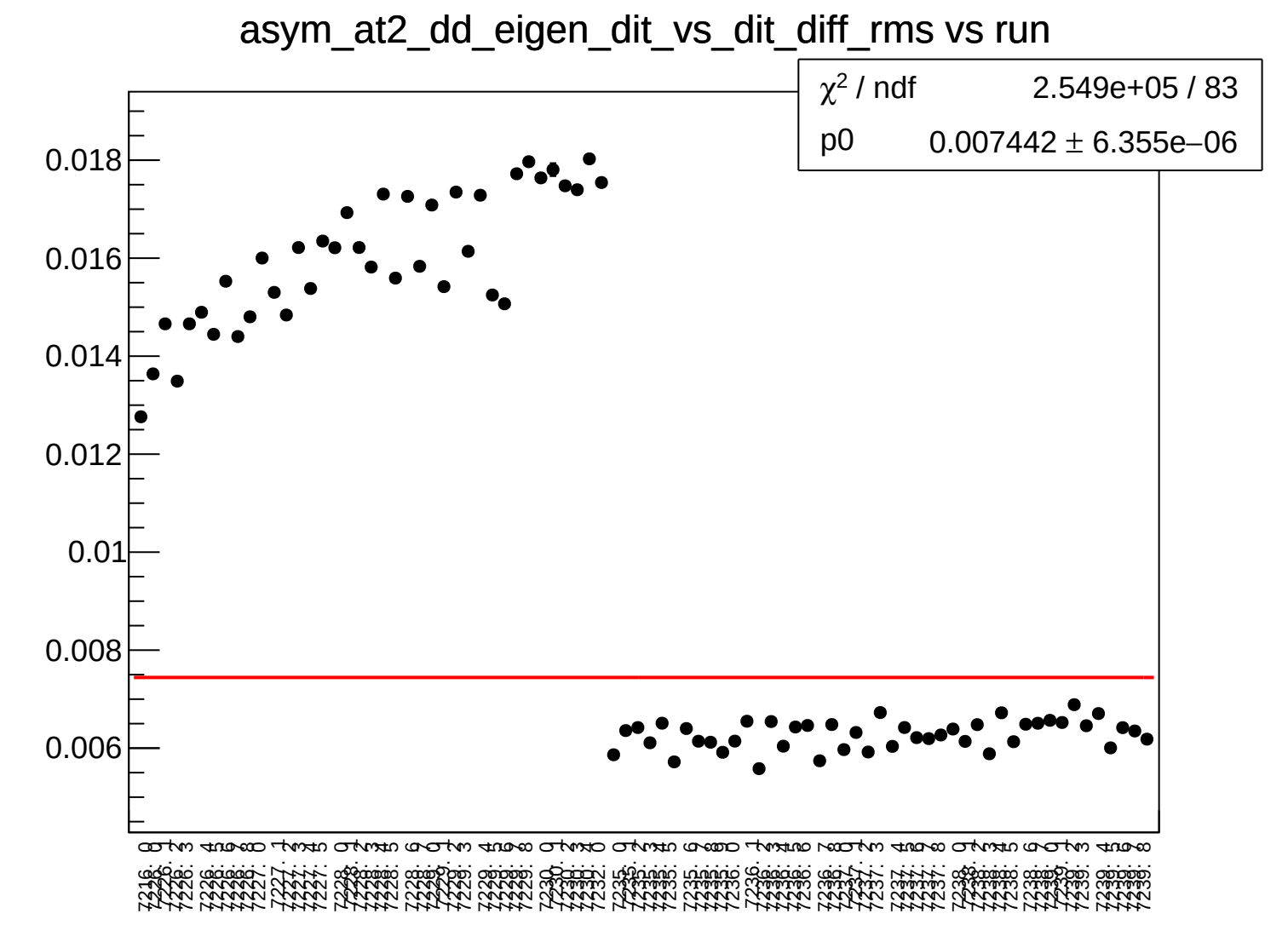

asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.77 / 83
p0 0.4511 ± 0.4323
pull
Entries 84
Mean 1073
Std Dev 0

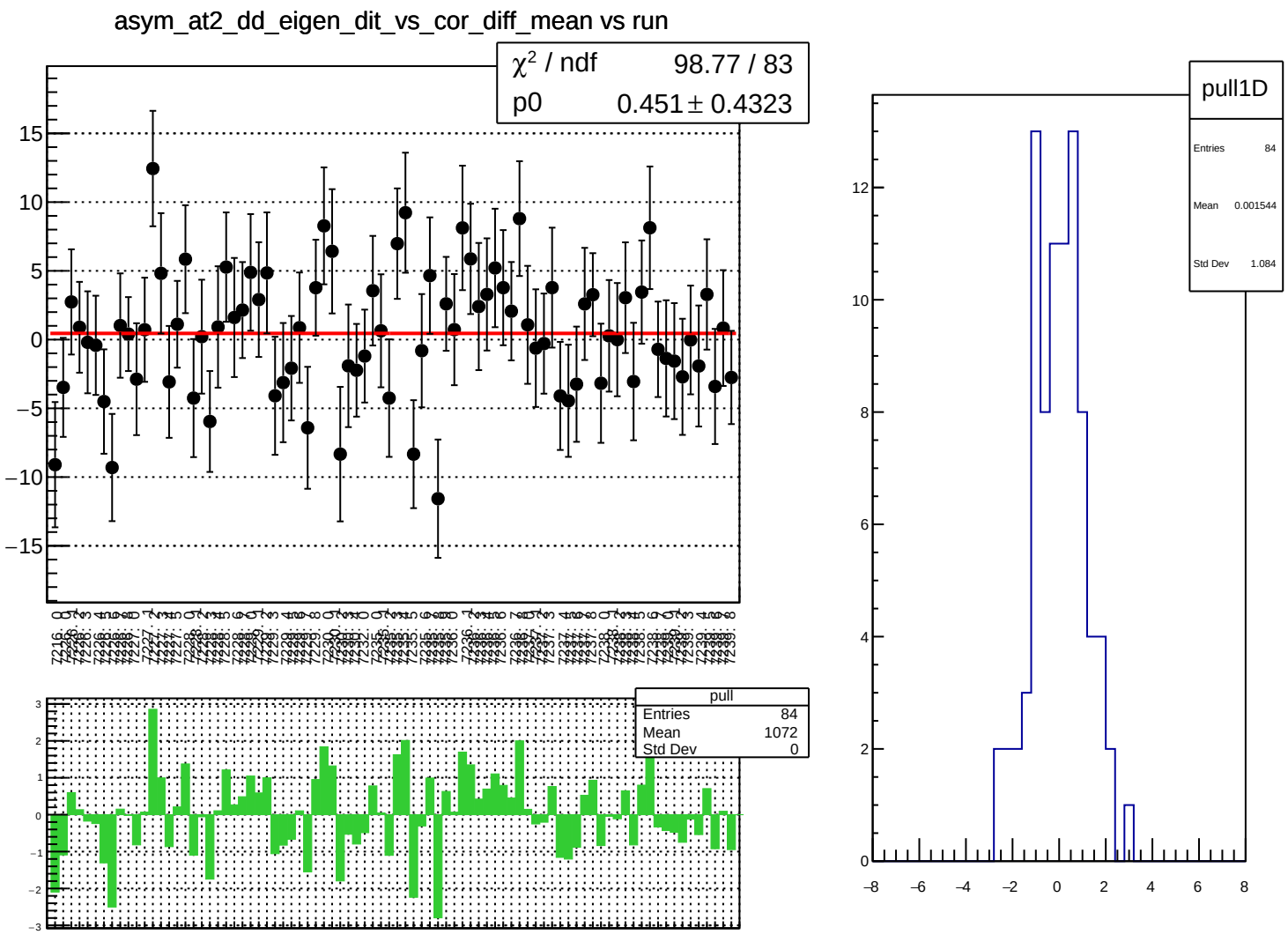

pull1D
Entries 84
Mean 0.001543
Std Dev 1.084

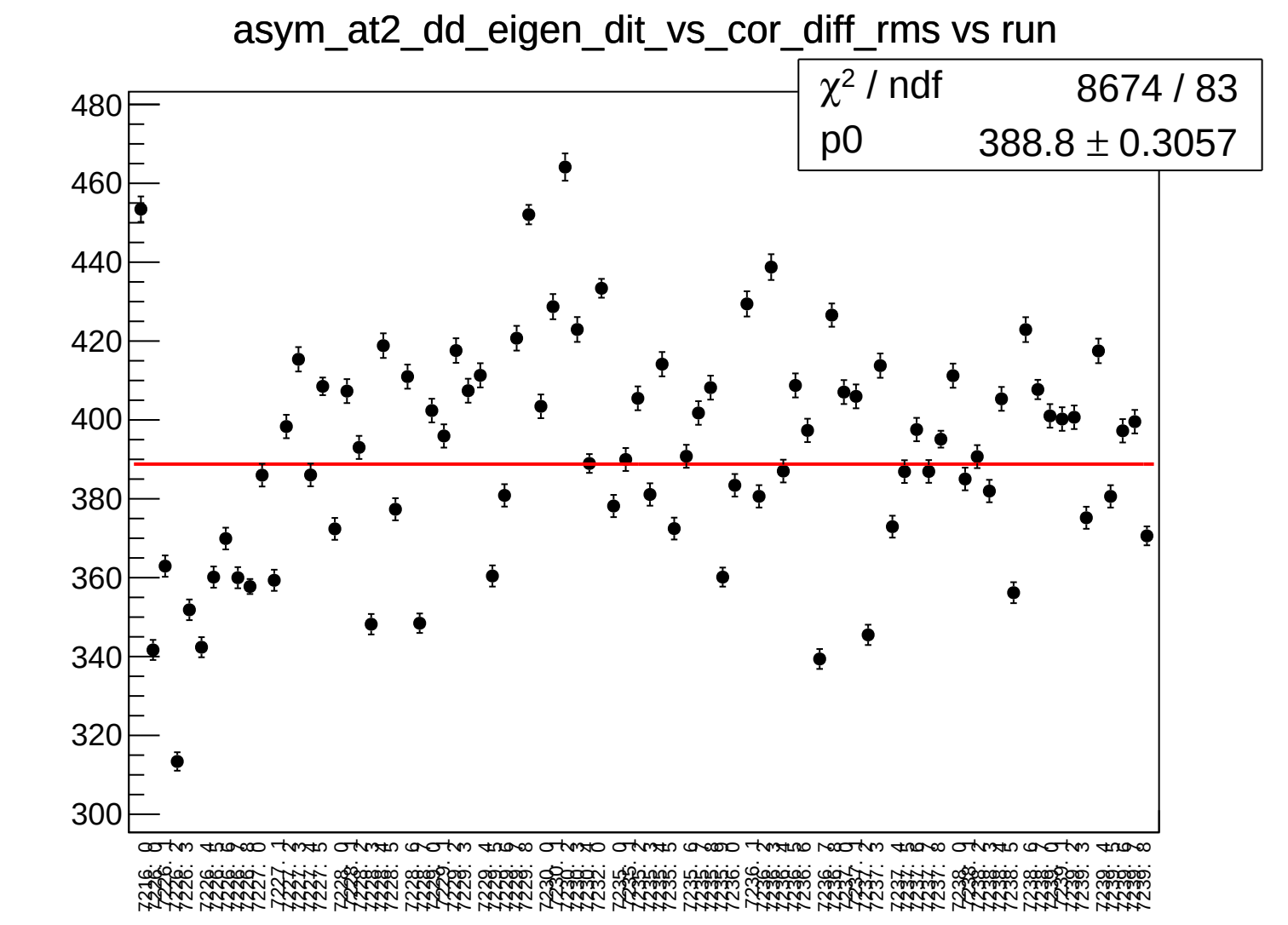

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8674 / 83
p0 388.8 ± 0.3057
480
460
440
420
400
380
360
340
320
300

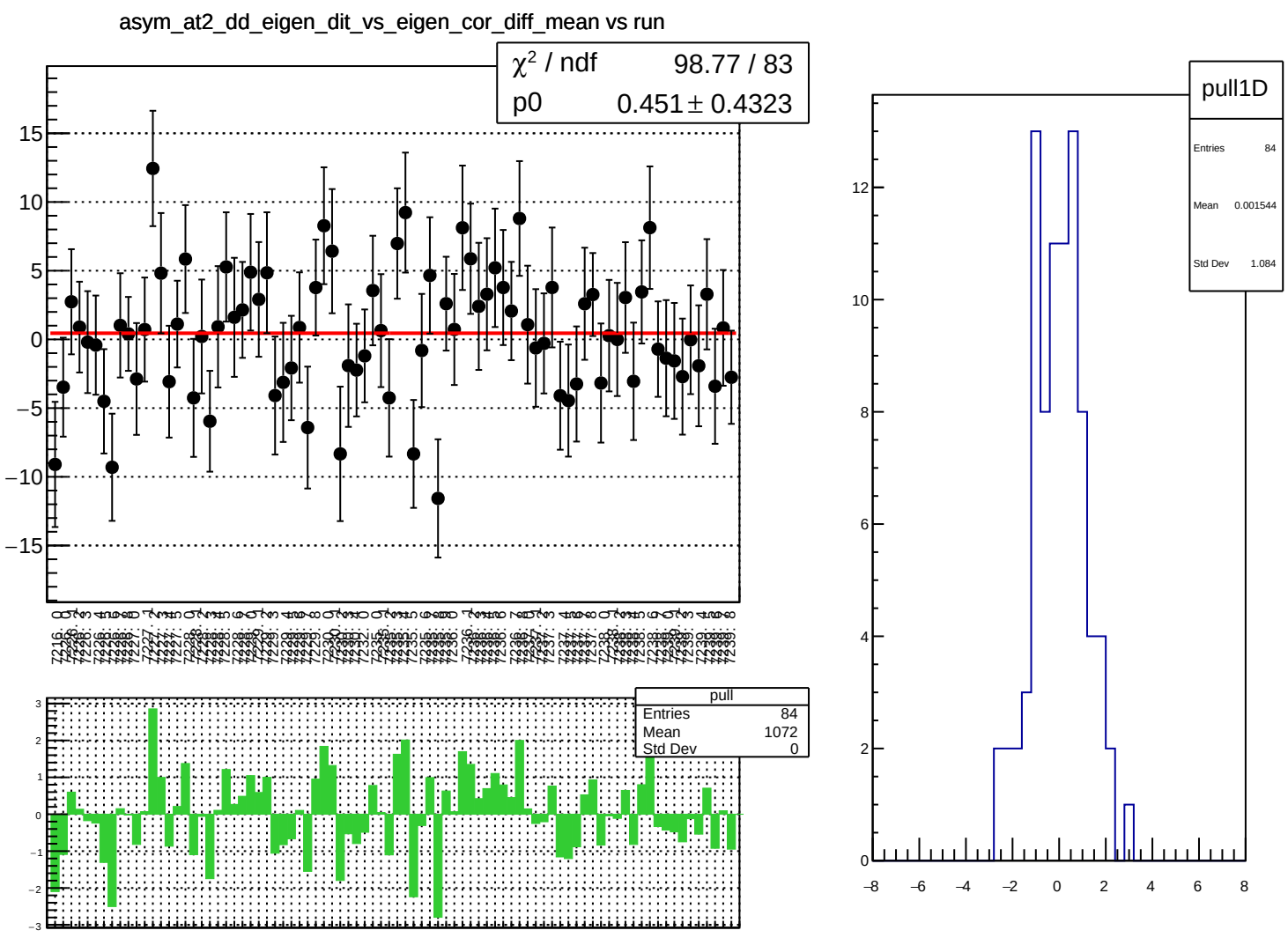

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 102.5 / 83
p0 −8.006e−06 ± 8.987e−06
pull
Entries 84
Mean 29.55
Std Dev 65.93

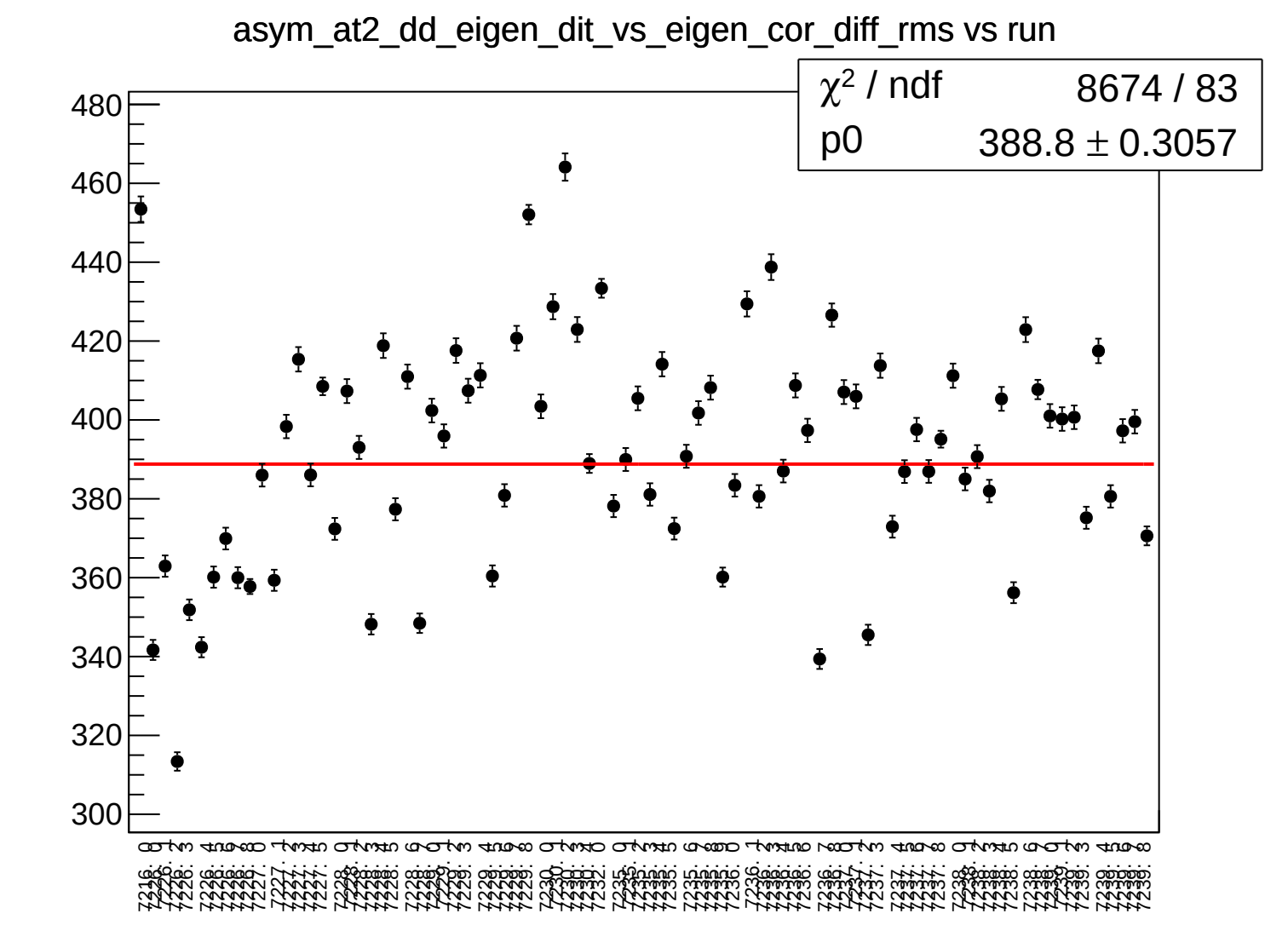

pull1D
Entries 84
Mean 0.02256
Std Dev 1.104


asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.549e+05 / 83
p0 0.007442 ± 6.355e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006

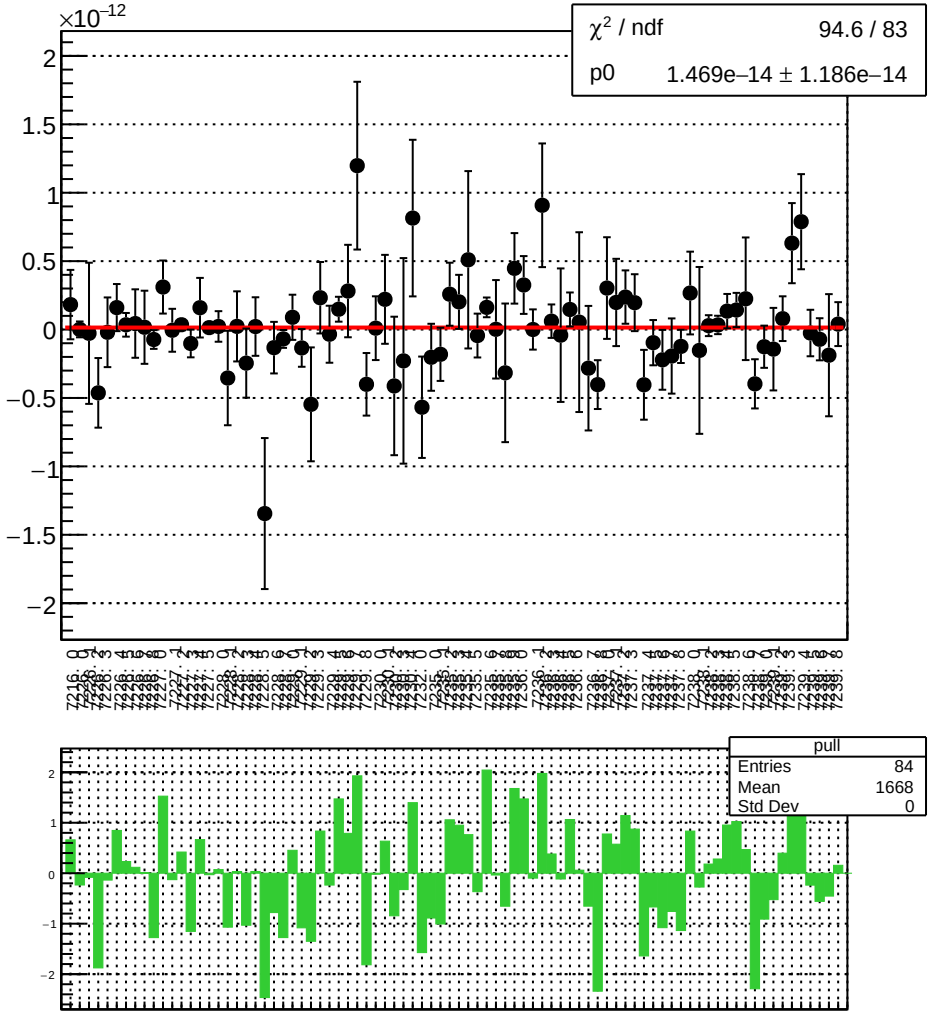

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.77 / 83
p0 0.451 ± 0.4323
pull
Entries 84
Mean 1072
Std Dev 0
pull1D
Entries 84
Mean 0.001544
Std Dev 1.084

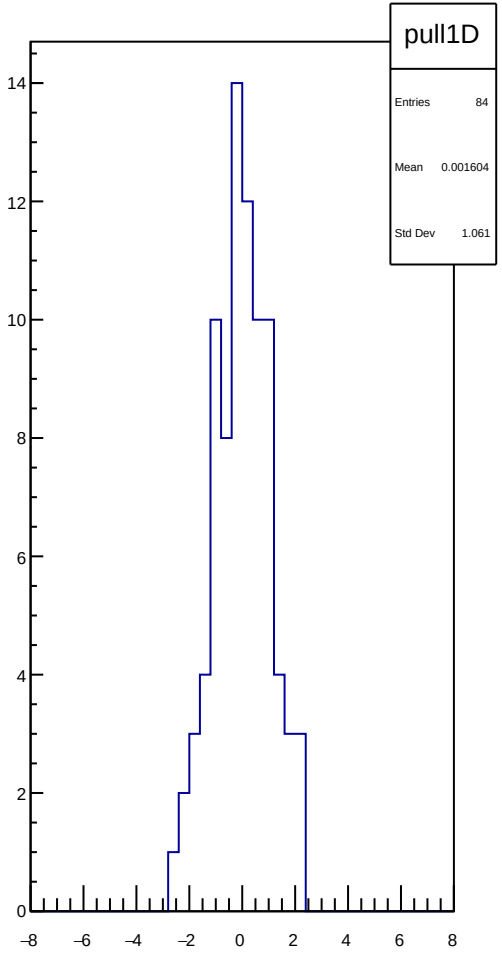

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8674 / 83
p0 388.8 ± 0.3057
480
460
440
420
400
380
360
340
320
300

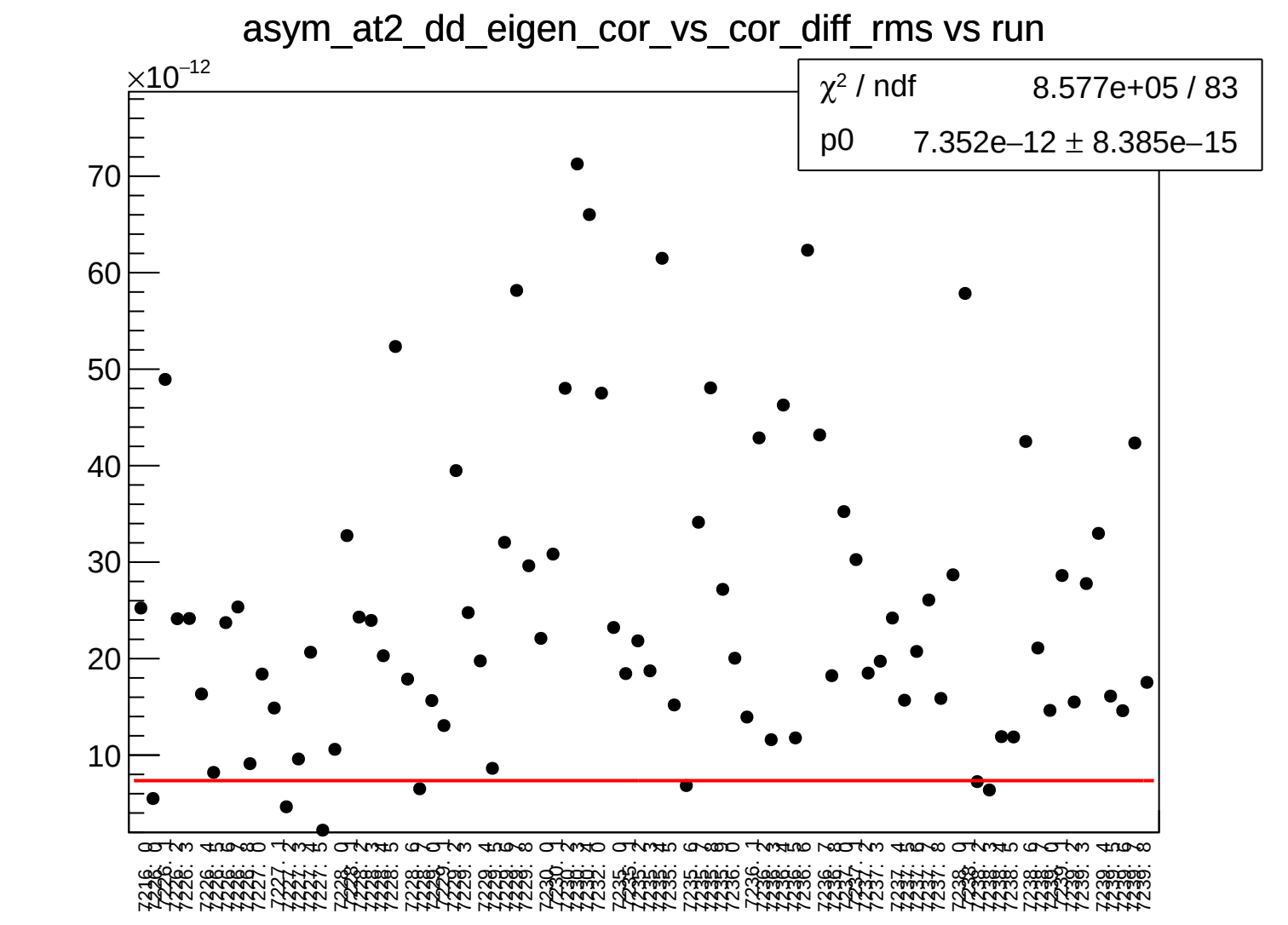

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.77 / 83
p0 0.451 ± 0.4323
pull
Entries 84
Mean 1072
Std Dev 0
pull1D
Entries 84
Mean 0.001544
Std Dev 1.084

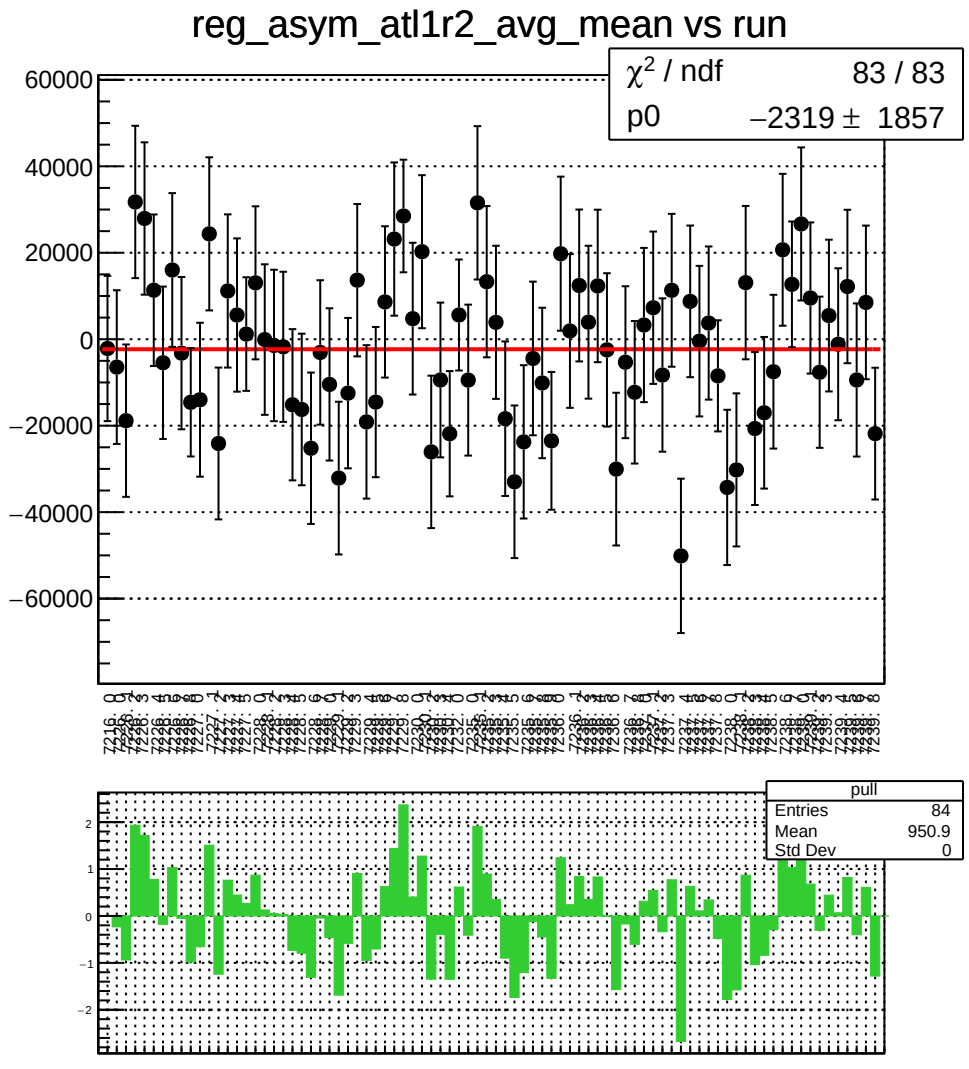

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8674 / 83
p0 388.8 ± 0.3057
480
460
440
420
400
380
360
340
320
300

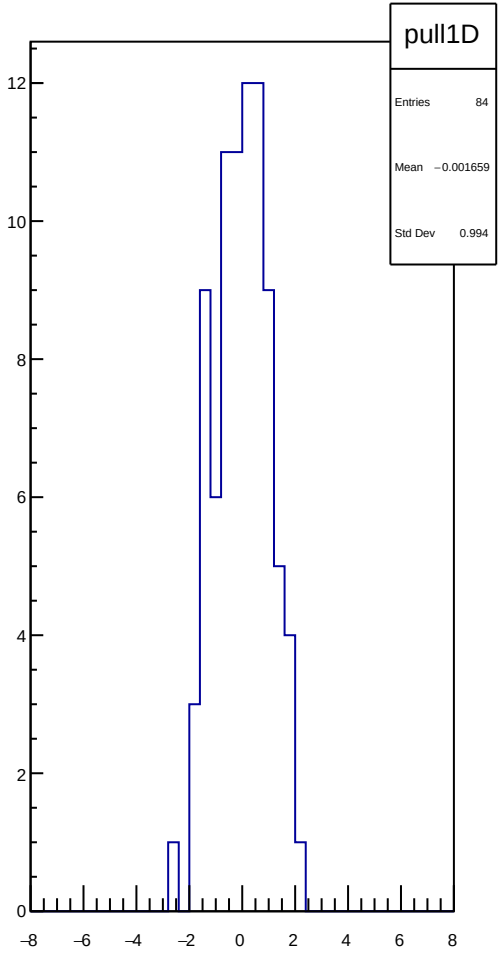
asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run

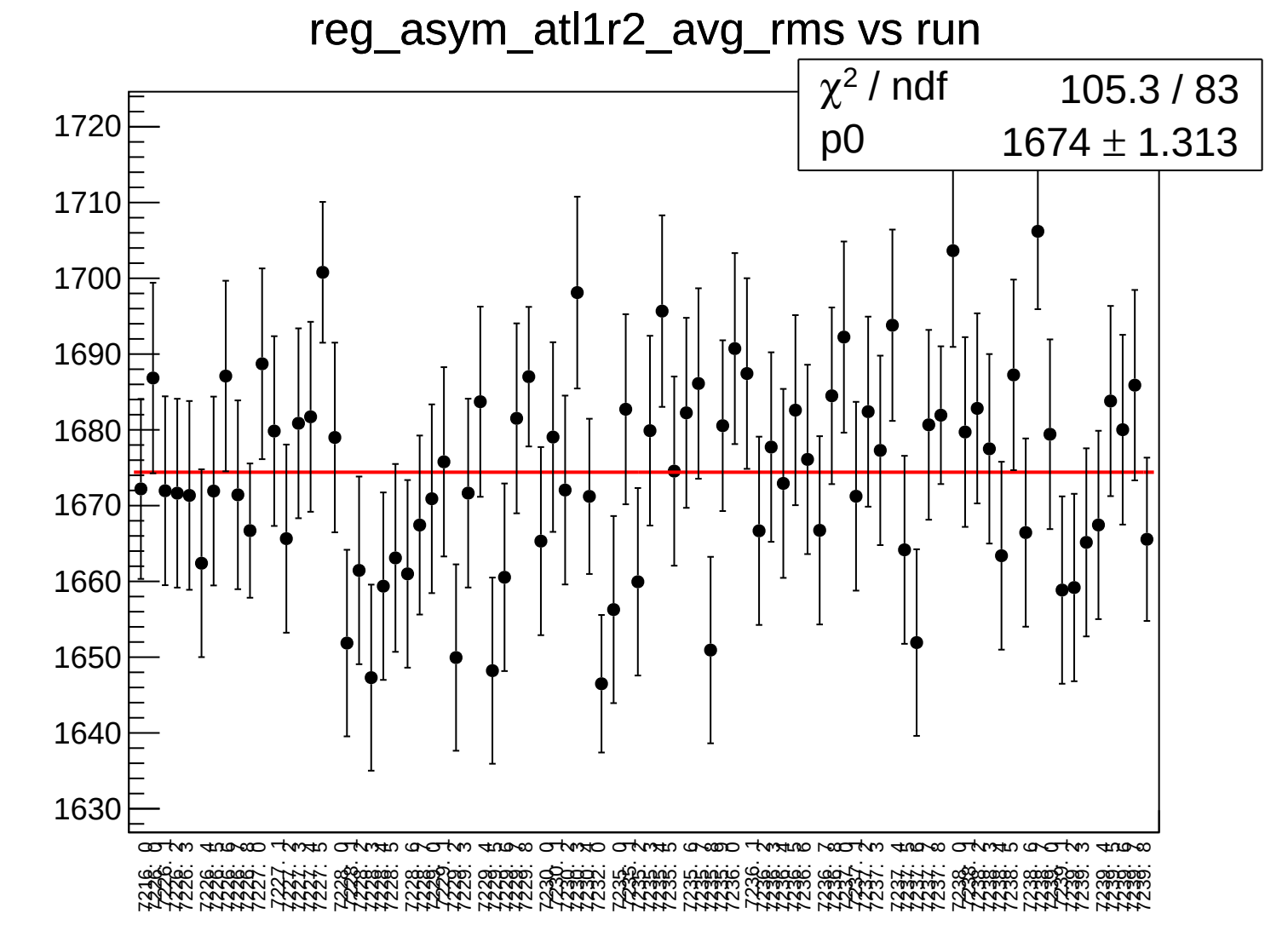


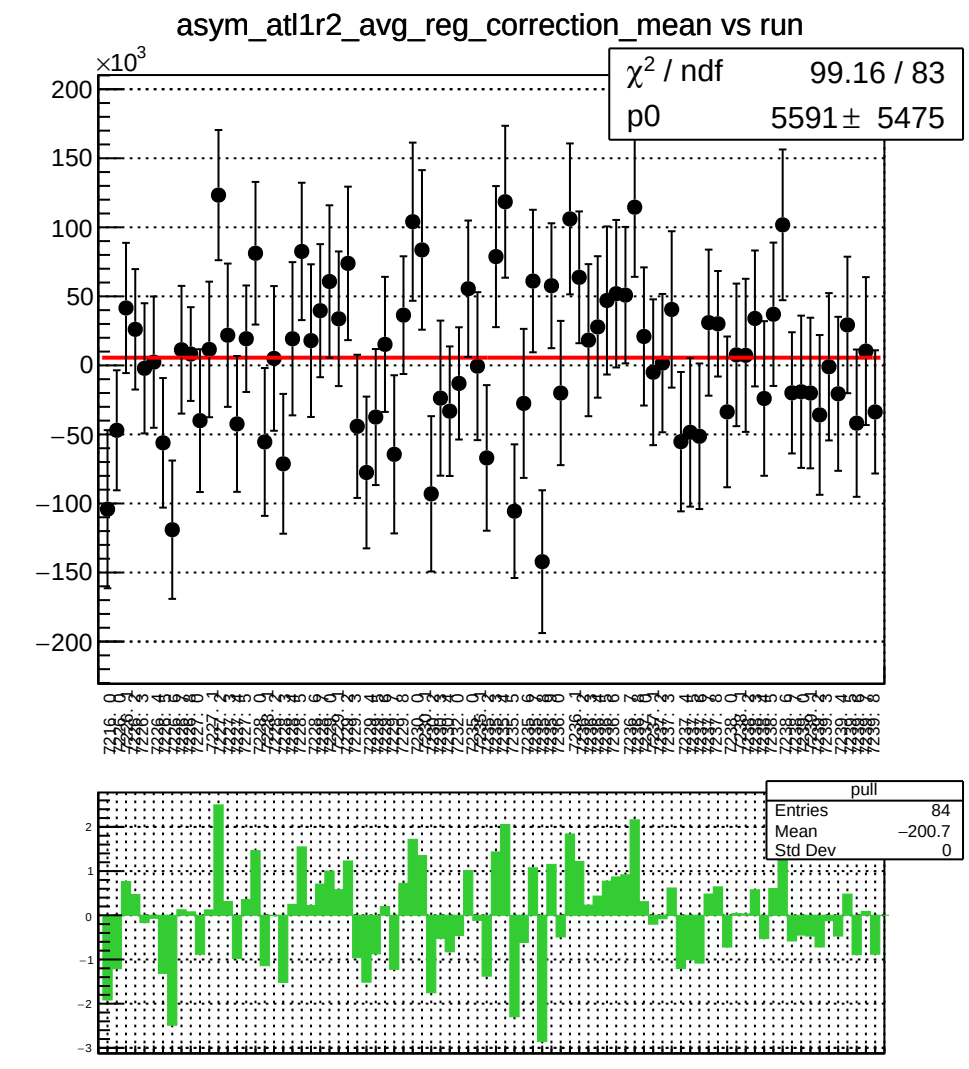


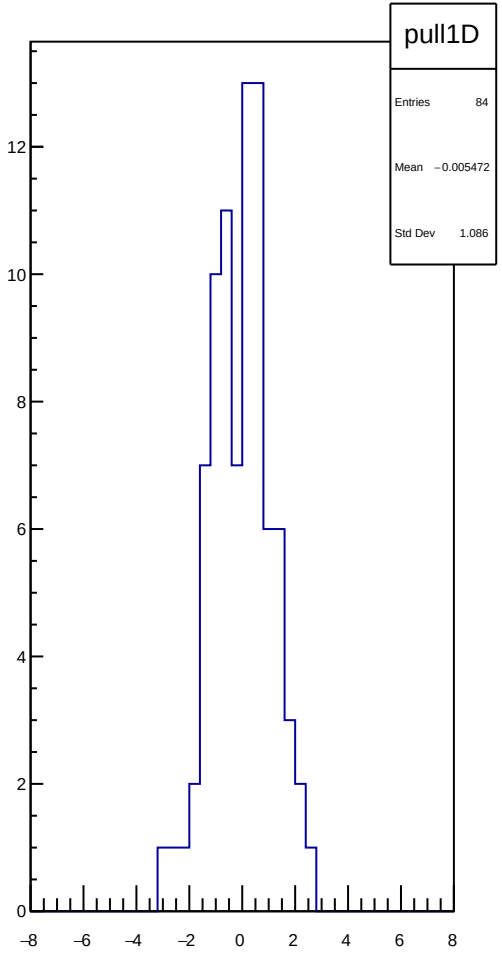

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 8.577e+05 / 83
p0 7.352e−12 ± 8.385e−15
70
60
50
40
30
20
10

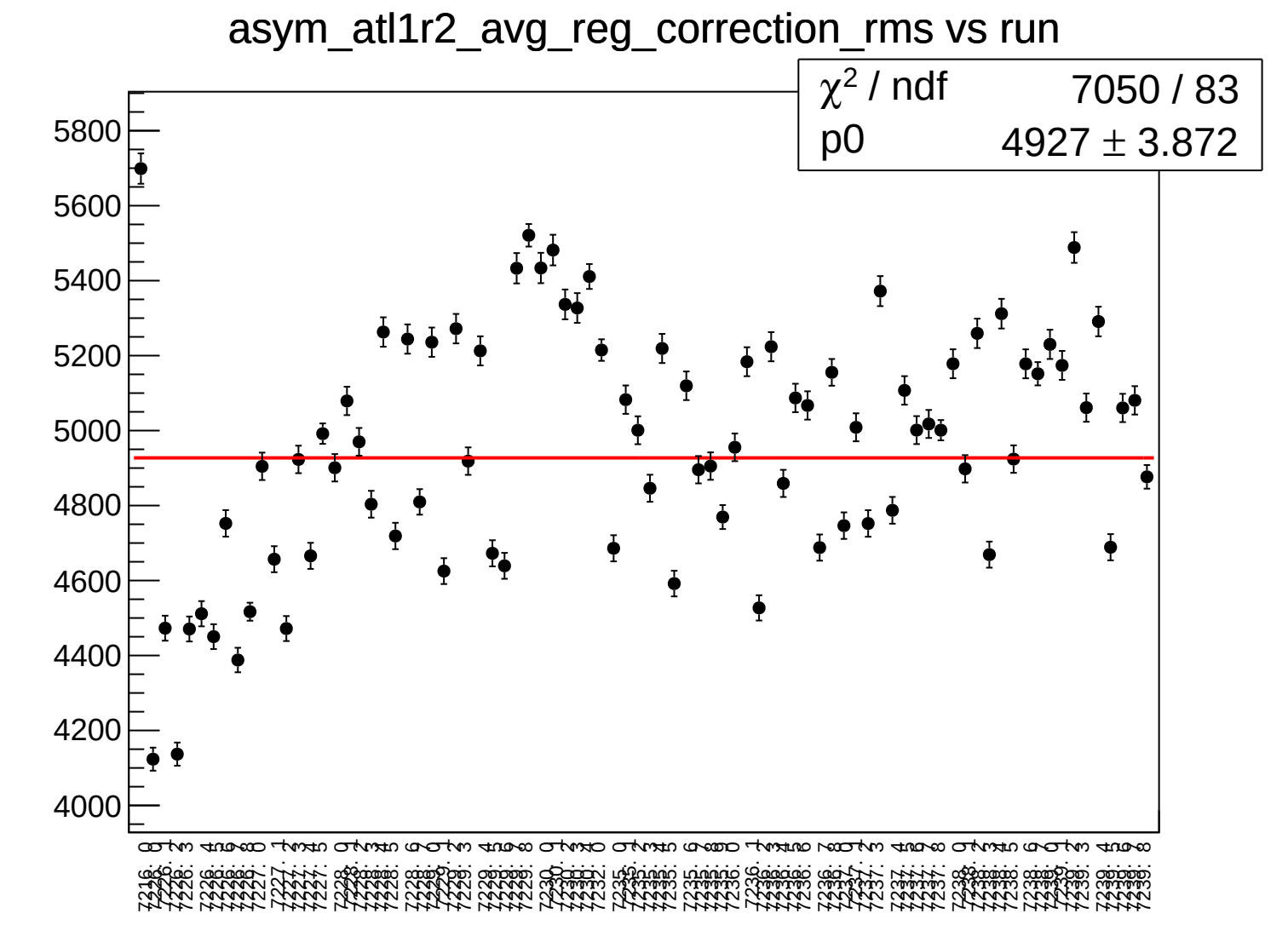

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 83 / 83
p0 −2319 ± 1857
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 950.9
Std Dev 0
2
1
0
−1
−2

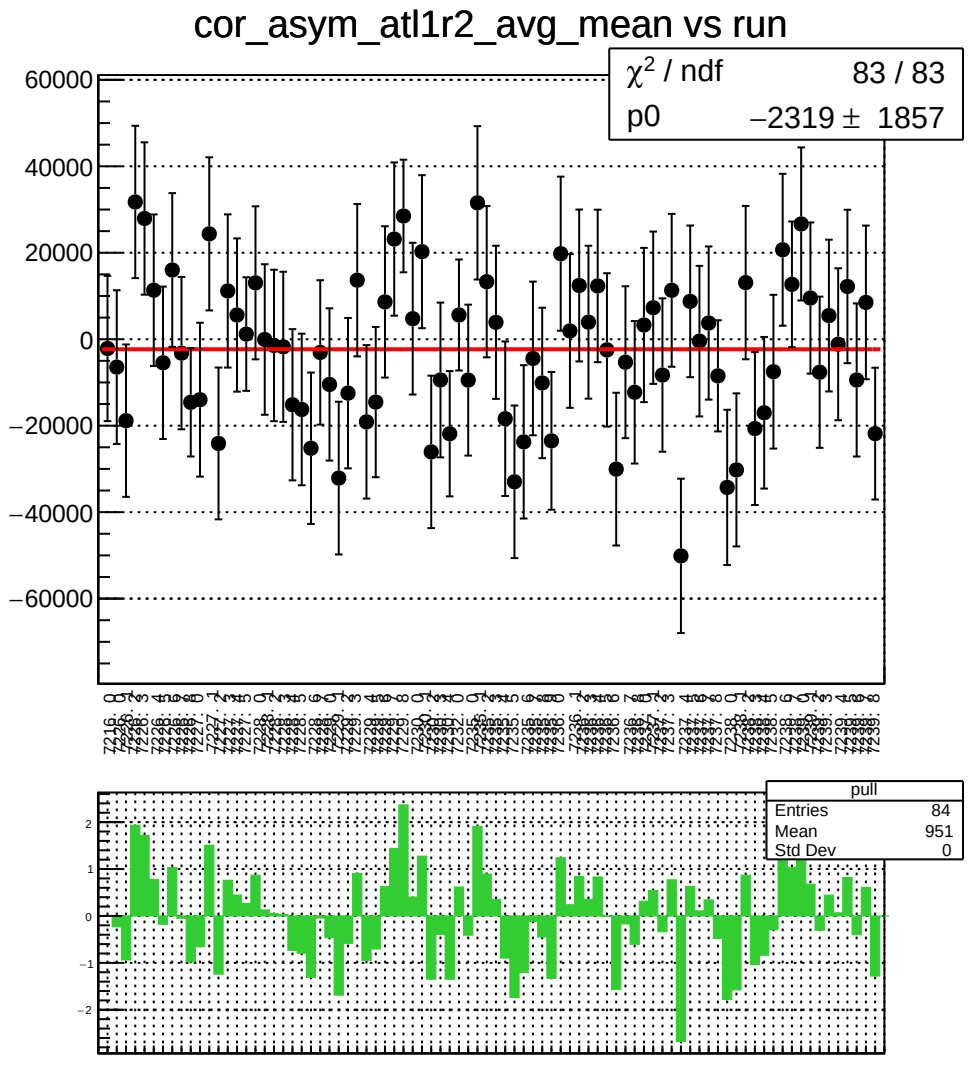

pull1D
Entries 84
Mean −0.001659
Std Dev 0.994
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

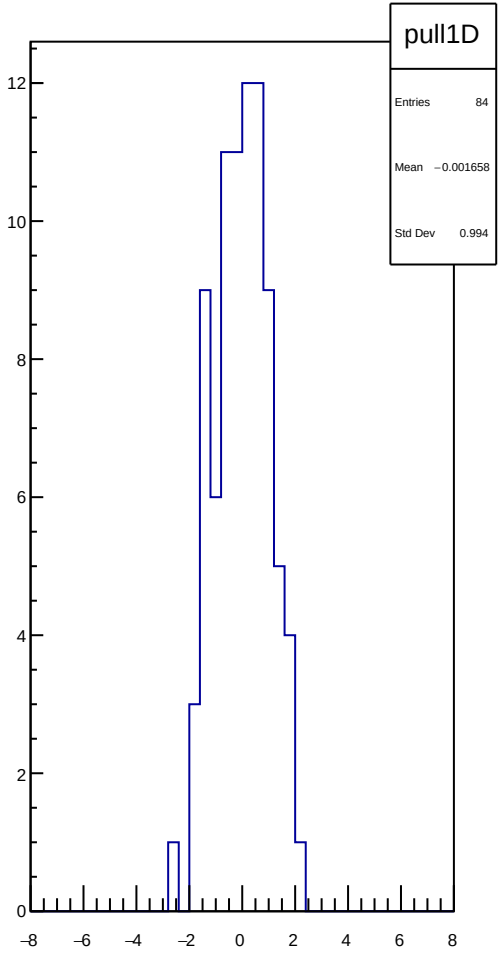

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 105.3 / 83
p0 1674 ± 1.313
1720
1710
1700
1690
1680
1670
1660
1650
1640
1630

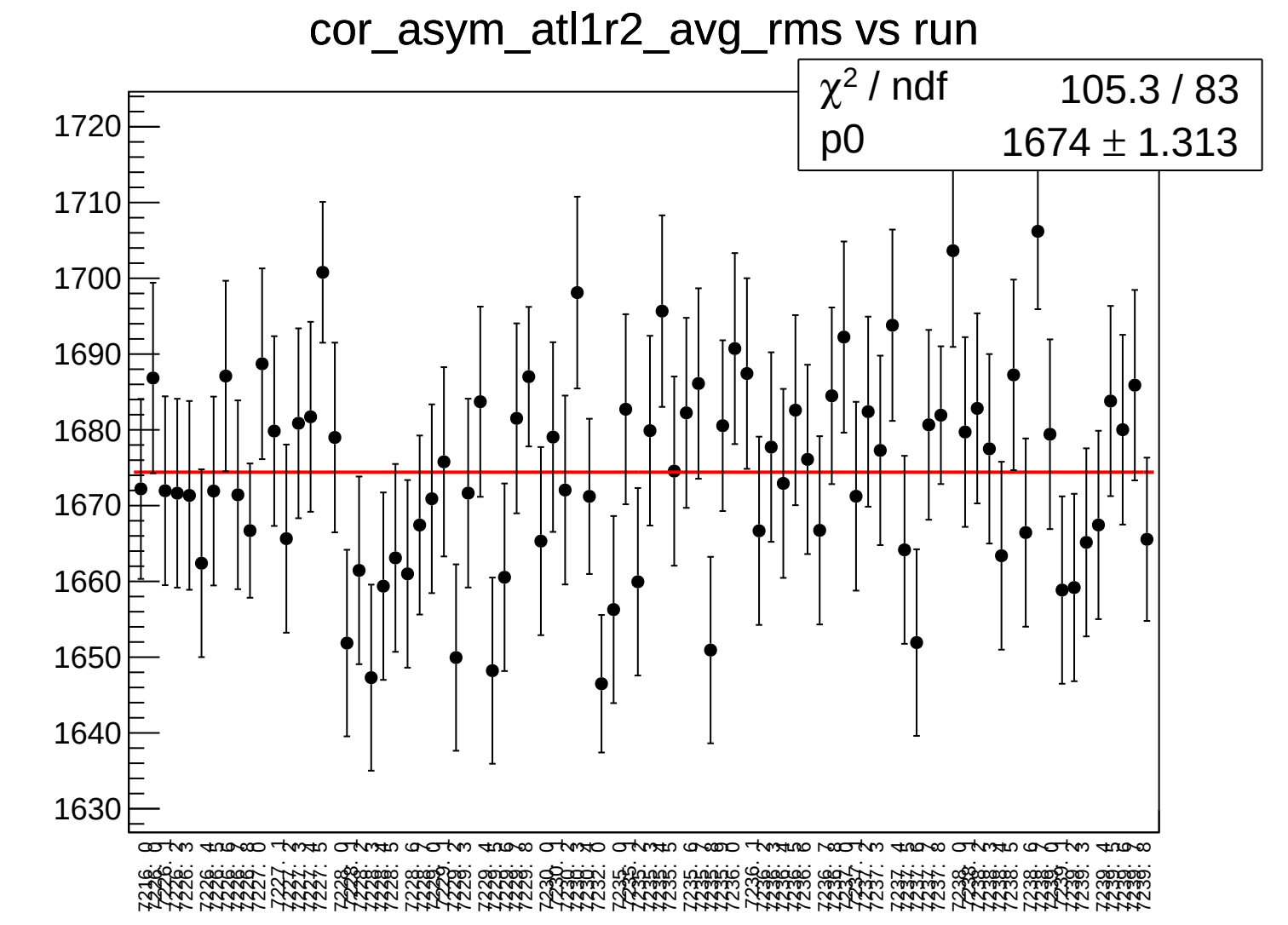

asym_atl1r2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 99.16 / 83
p0 5591 ± 5475
pull
Entries 84
Mean −200.7
Std Dev 0

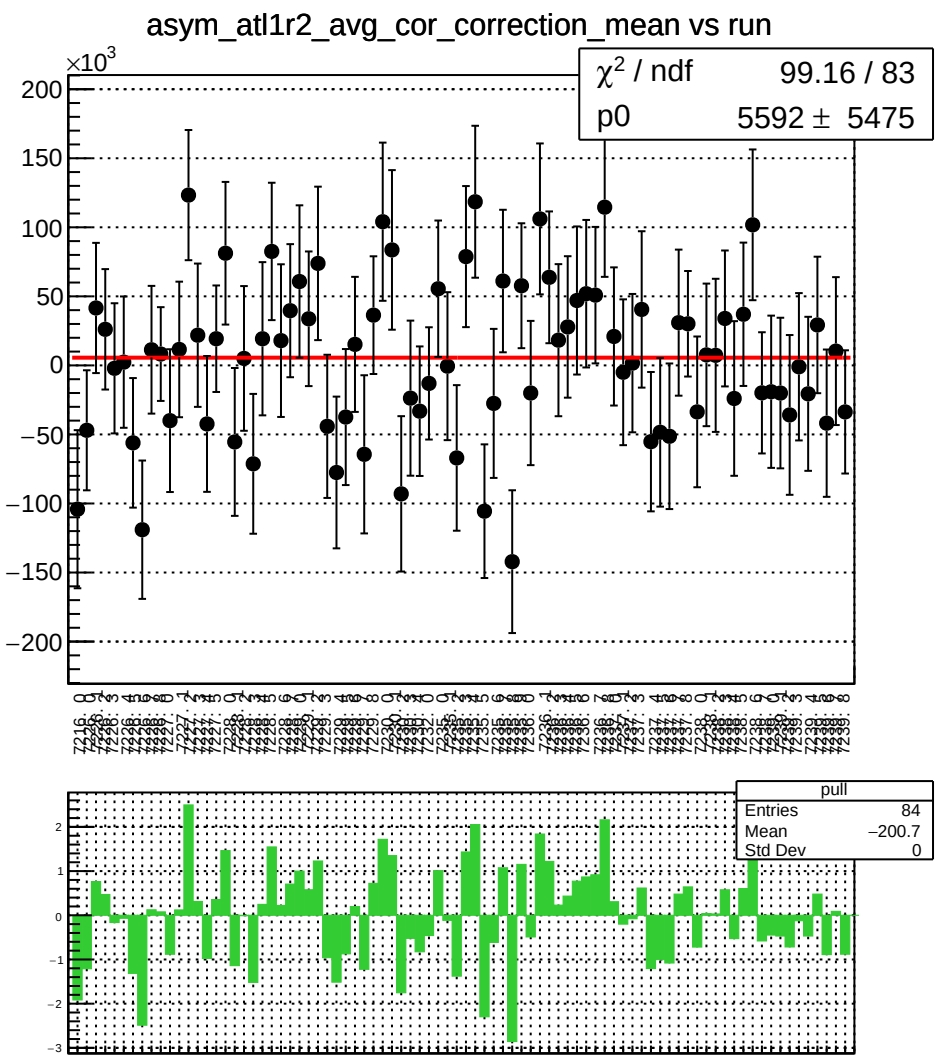

pull1D
Entries 84
Mean −0.005472
Std Dev 1.086

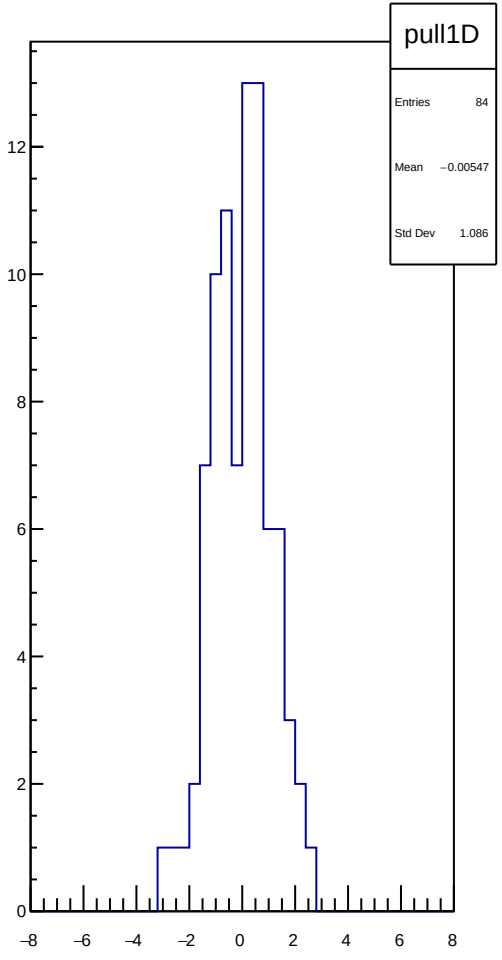

asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 7050 / 83
p0 4927 ± 3.872
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000

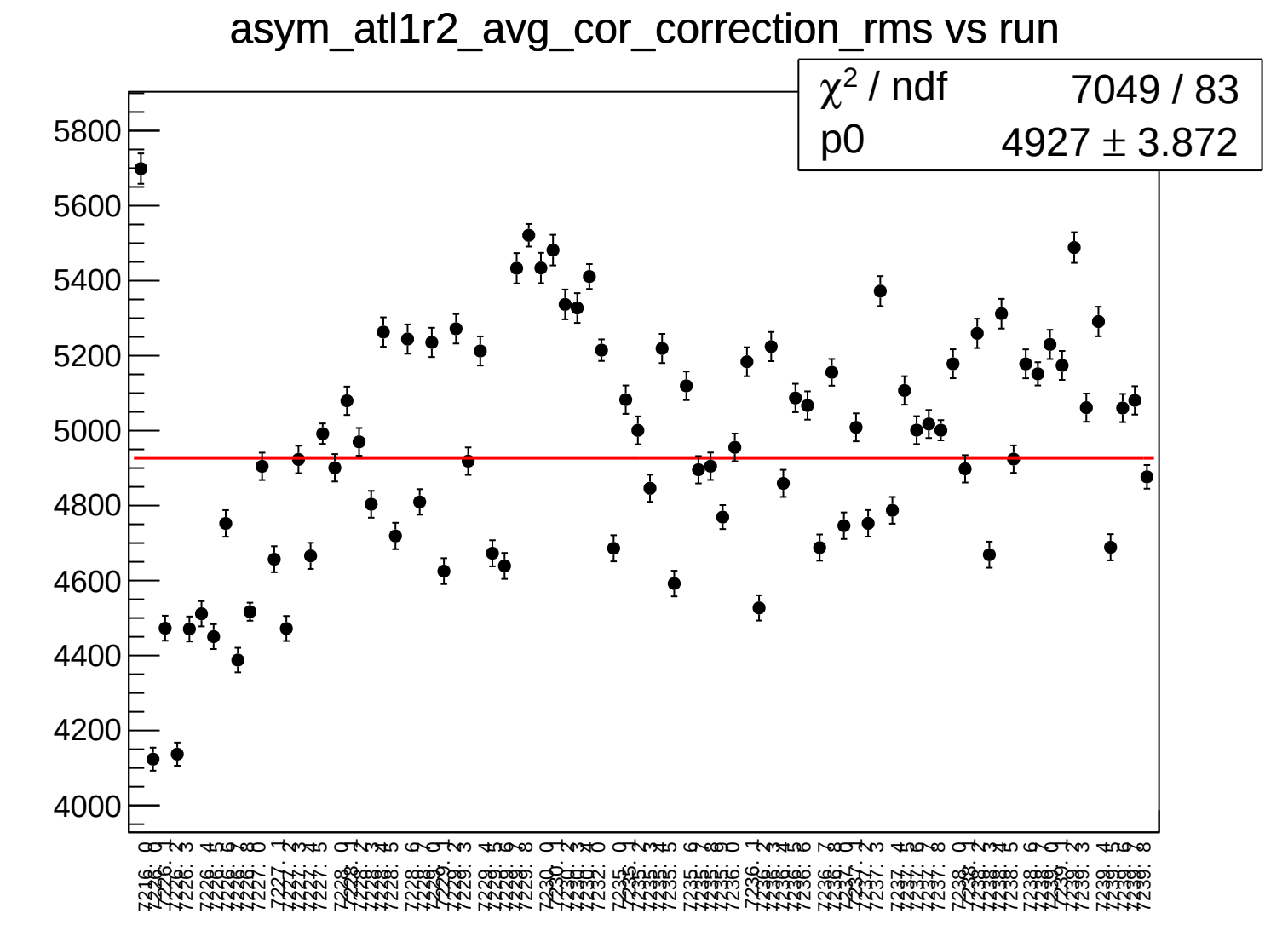

cor_asym_atl1r2_avg_mean vs run
χ² / ndf 83 / 83
p0 −2319 ± 1857
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 951
Std Dev 0
2
1
0
−1
−2

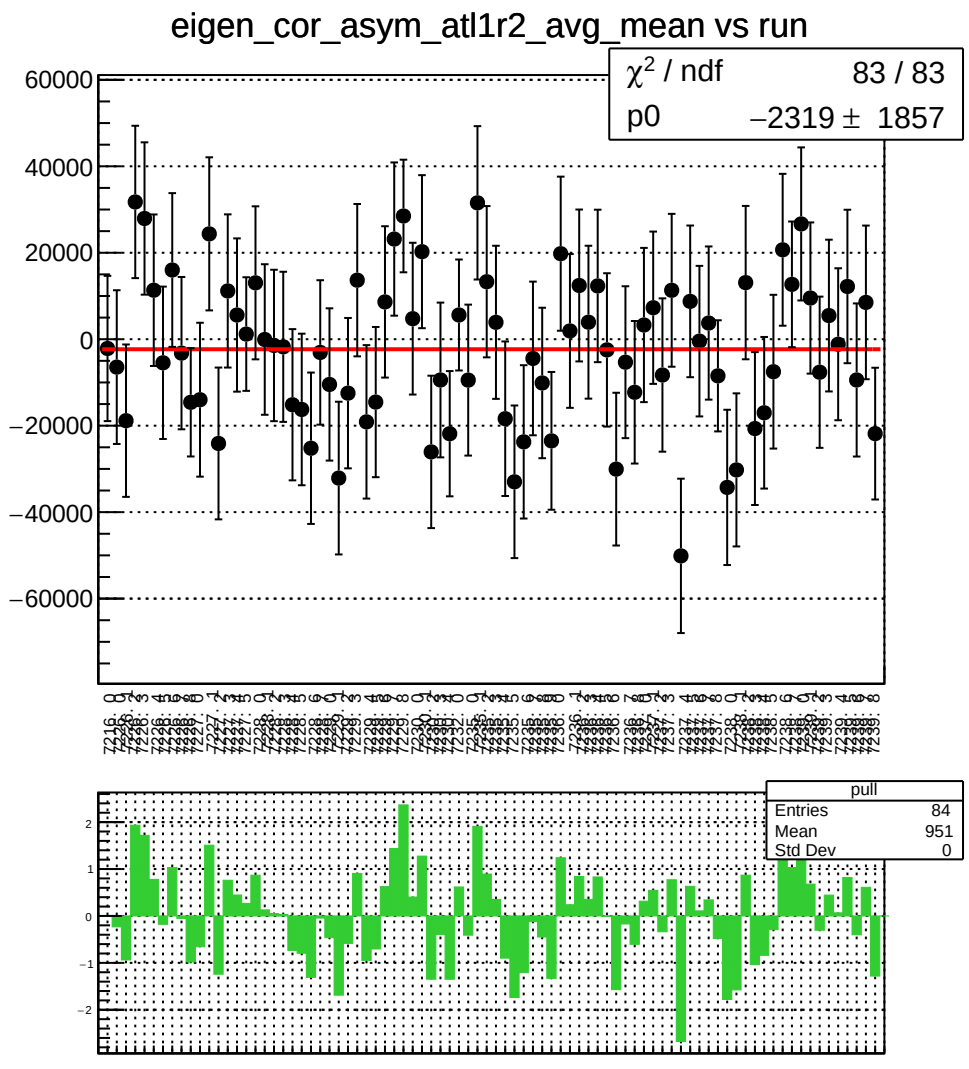

pull1D
Entries 84
Mean −0.001658
Std Dev 0.994
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

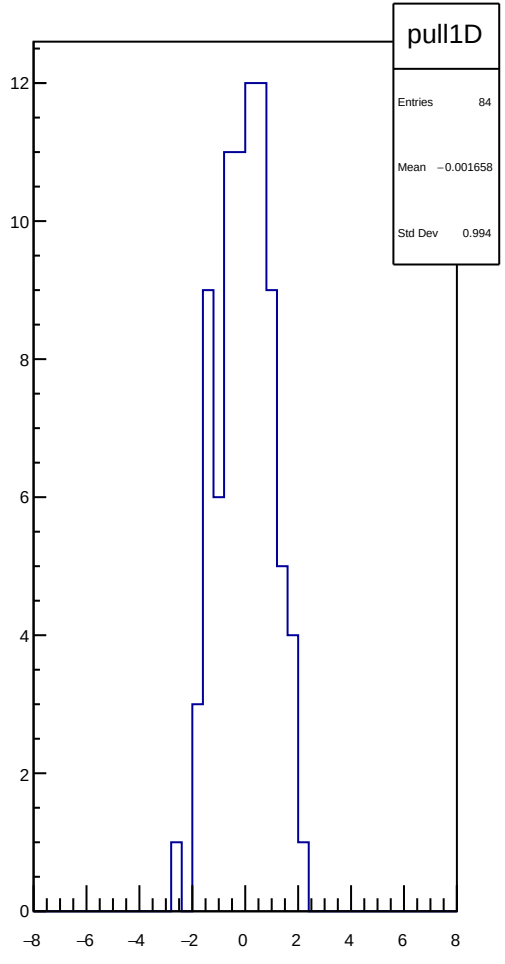

cor_asym_atl1r2_avg_rms vs run
χ^2 / ndf 105.3 / 83
p0 1674 ± 1.313
1720
1710
1700
1690
1680
1670
1660
1650
1640
1630

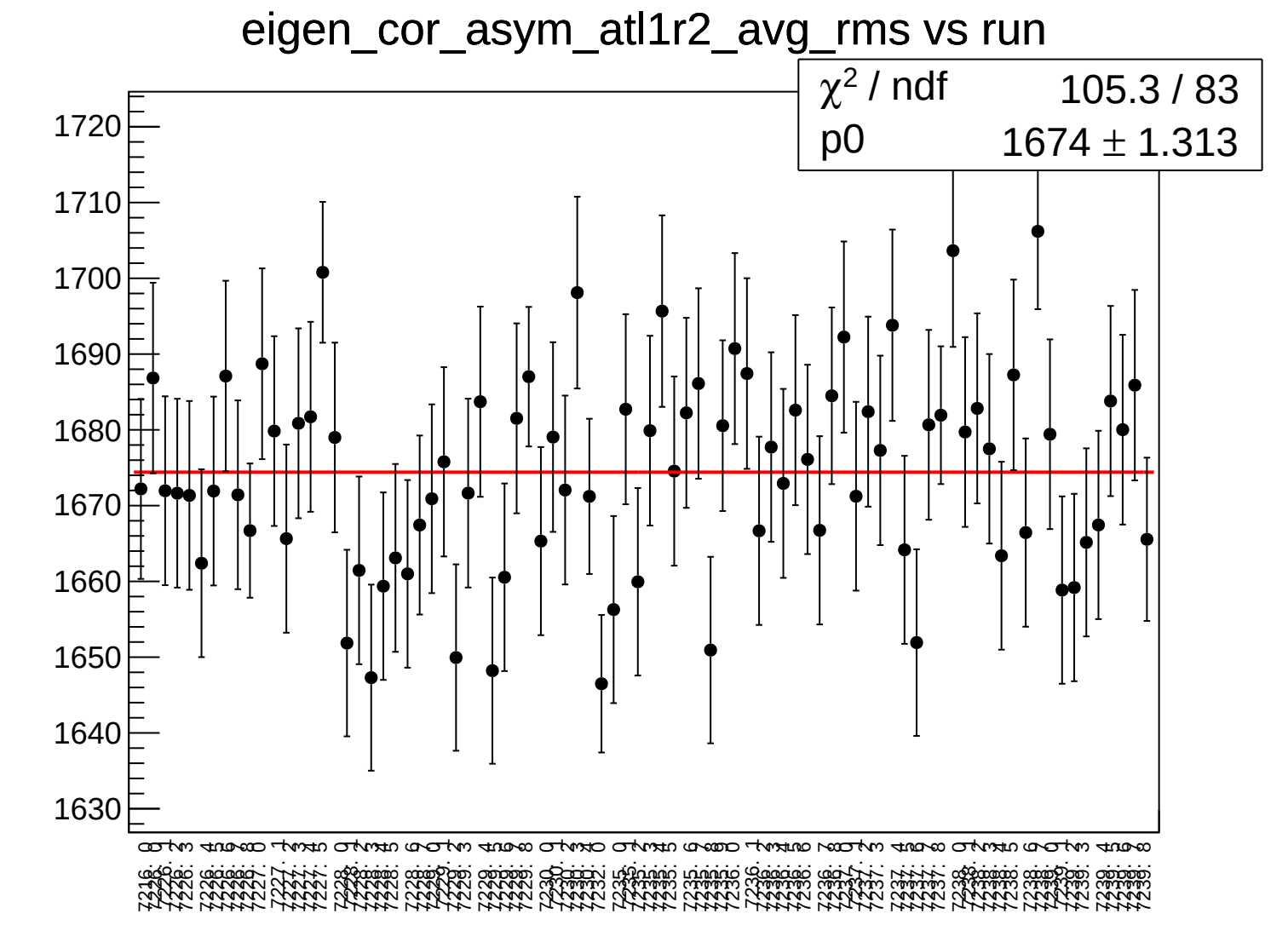

asym_atl1r2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 99.16 / 83
p0 5592 ± 5475
pull
Entries 84
Mean −200.7
Std Dev 0

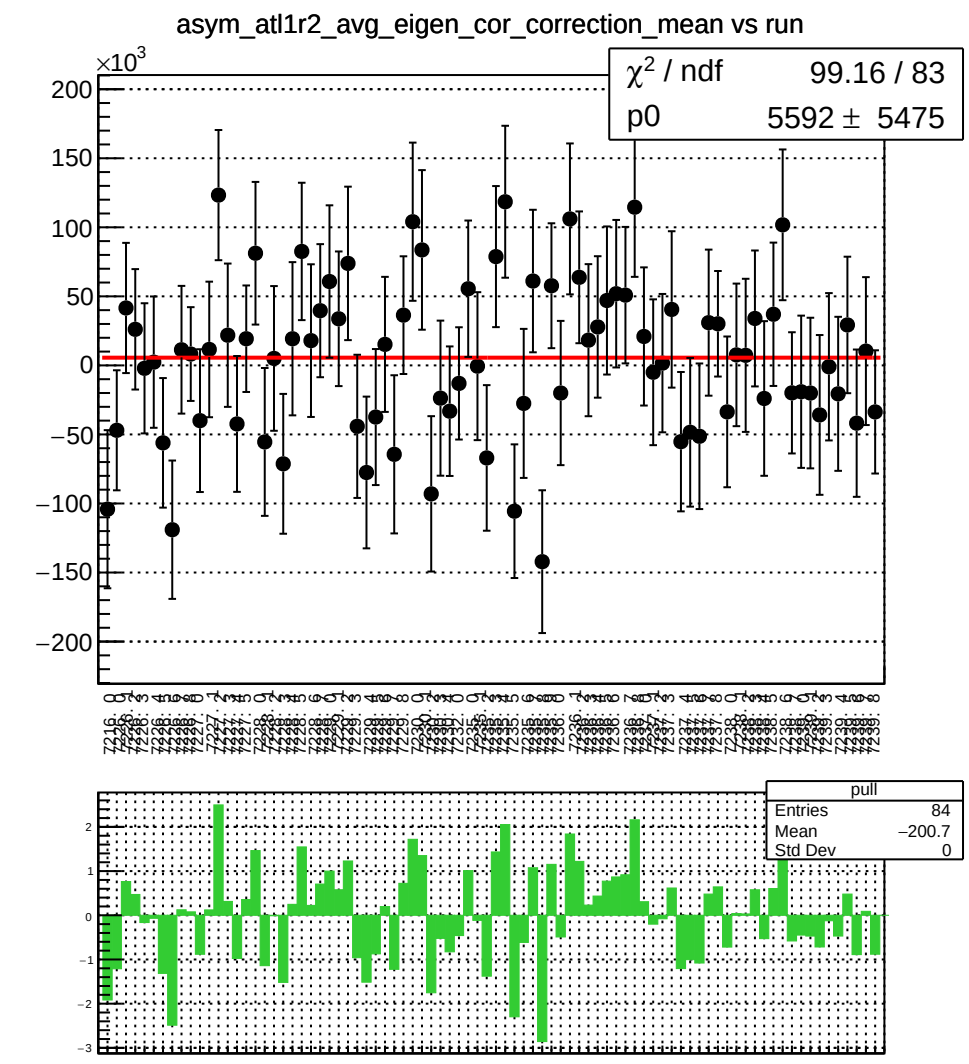

pull1D
Entries 84
Mean −0.00547
Std Dev 1.086

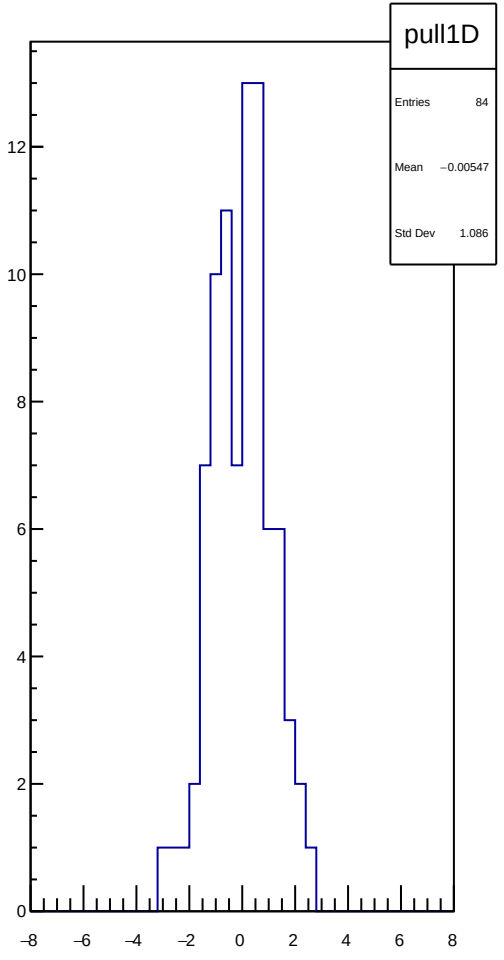

asym_atl1r2_avg_cor_correction_rms vs run
χ² / ndf 7049 / 83
p0 4927 ± 3.872
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000

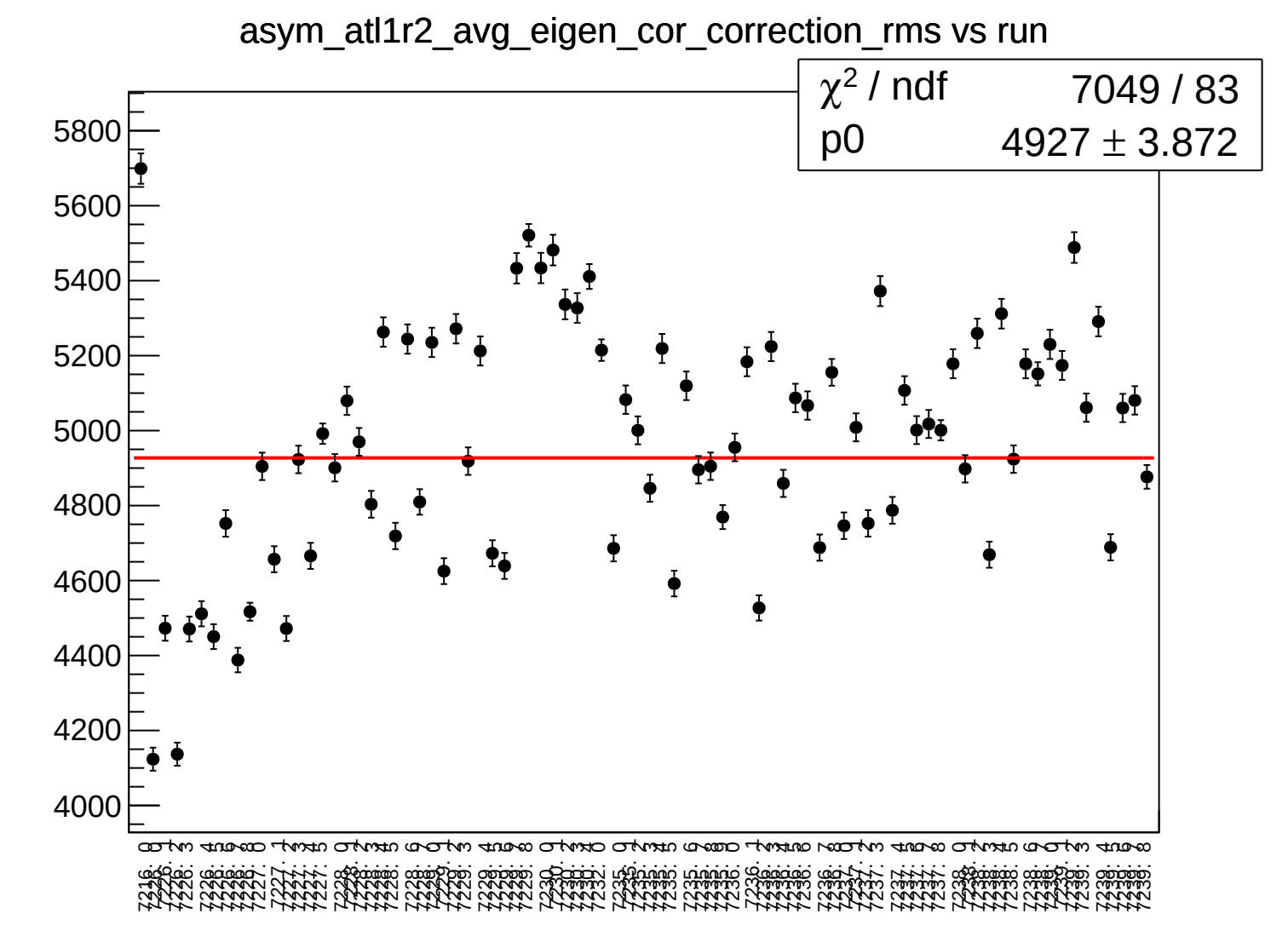

eigen_cor_asym_atl1r2_avg_mean vs run
χ² / ndf 83 / 83
p0 −2319 ± 1857
pull
Entries 84
Mean 951
Std Dev 0

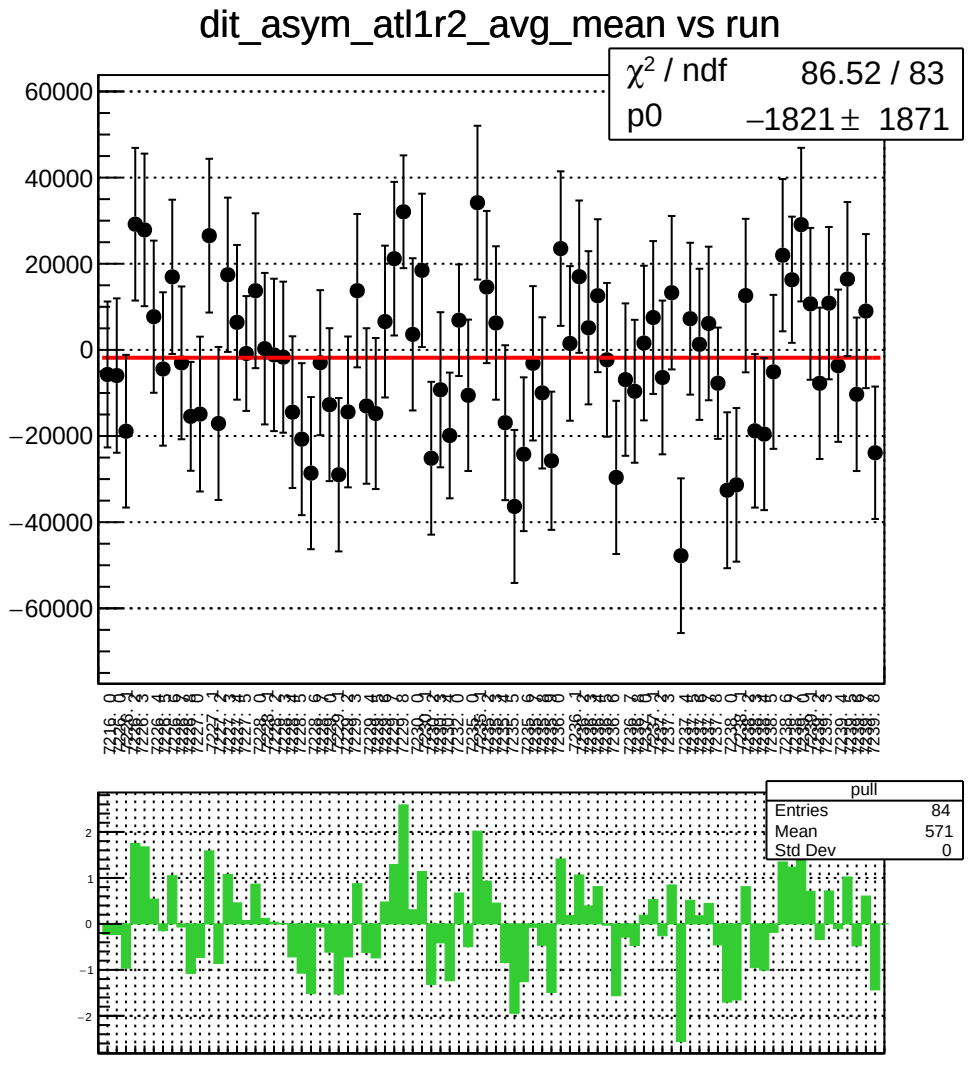

pull1D
Entries 84
Mean −0.001658
Std Dev 0.994

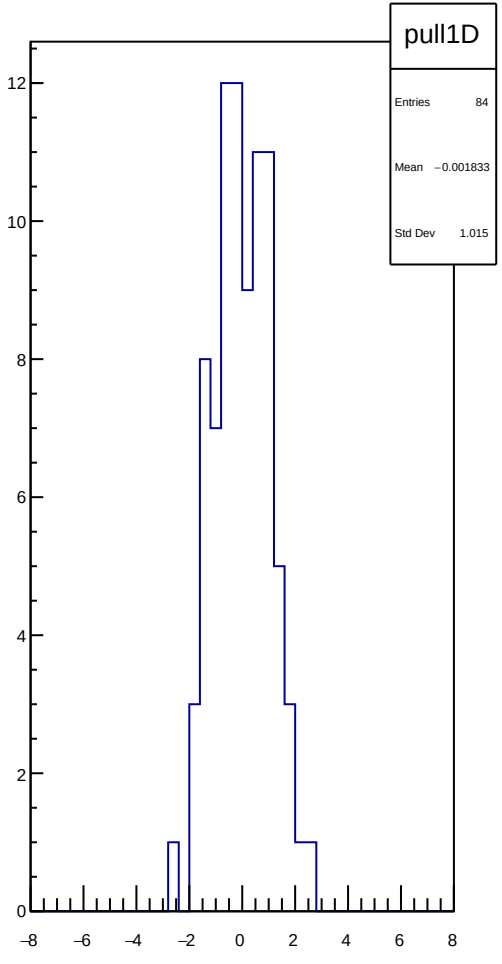

eigen_cor_asym_atl1r2_avg_rms vs run
χ^2 / ndf 105.3 / 83
p0 1674 ± 1.313
1720
1710
1700
1690
1680
1670
1660
1650
1640
1630

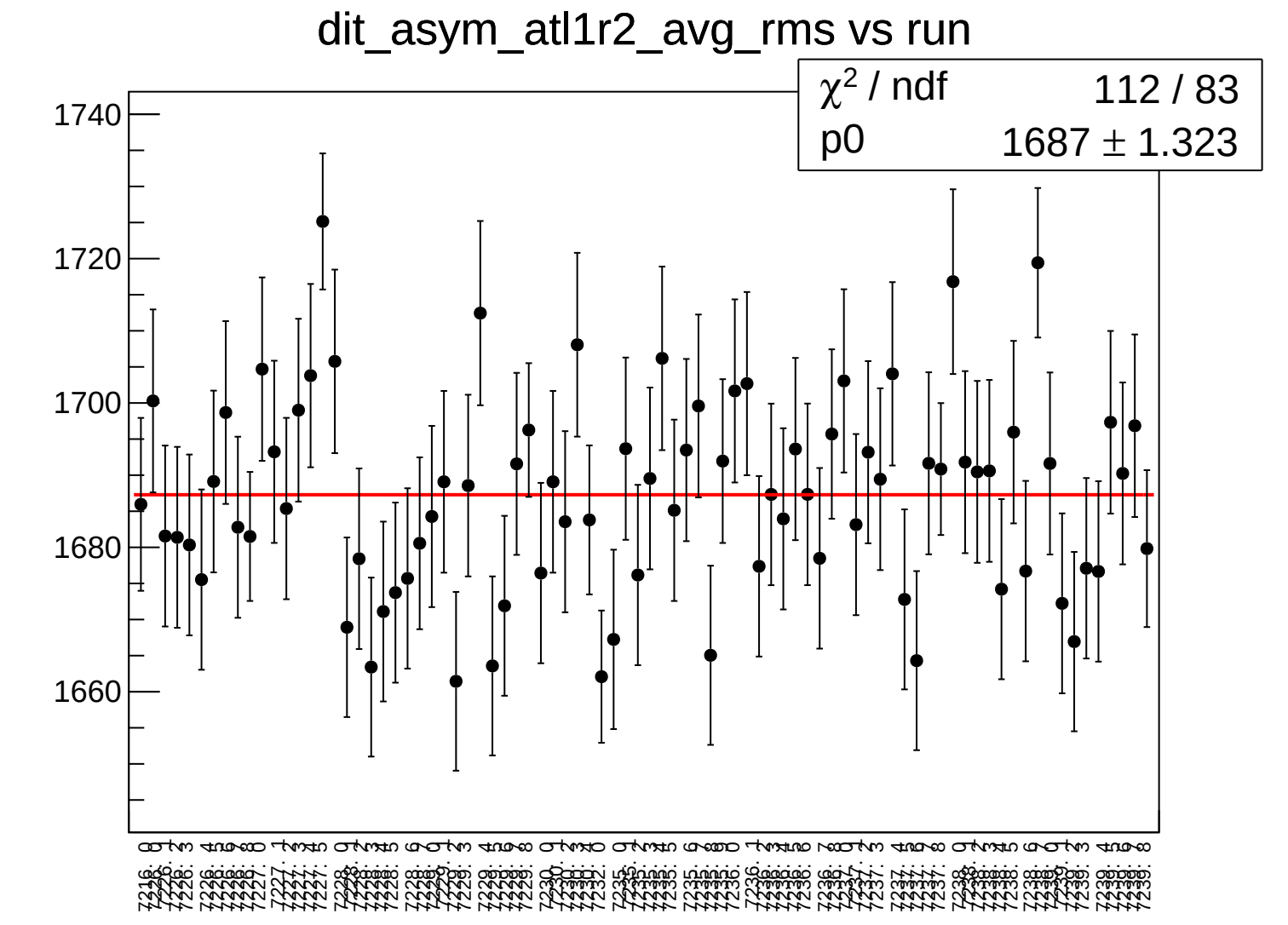

asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 99.16 / 83
p0 5592 ± 5475
pull
Entries 84
Mean −200.7
Std Dev 0

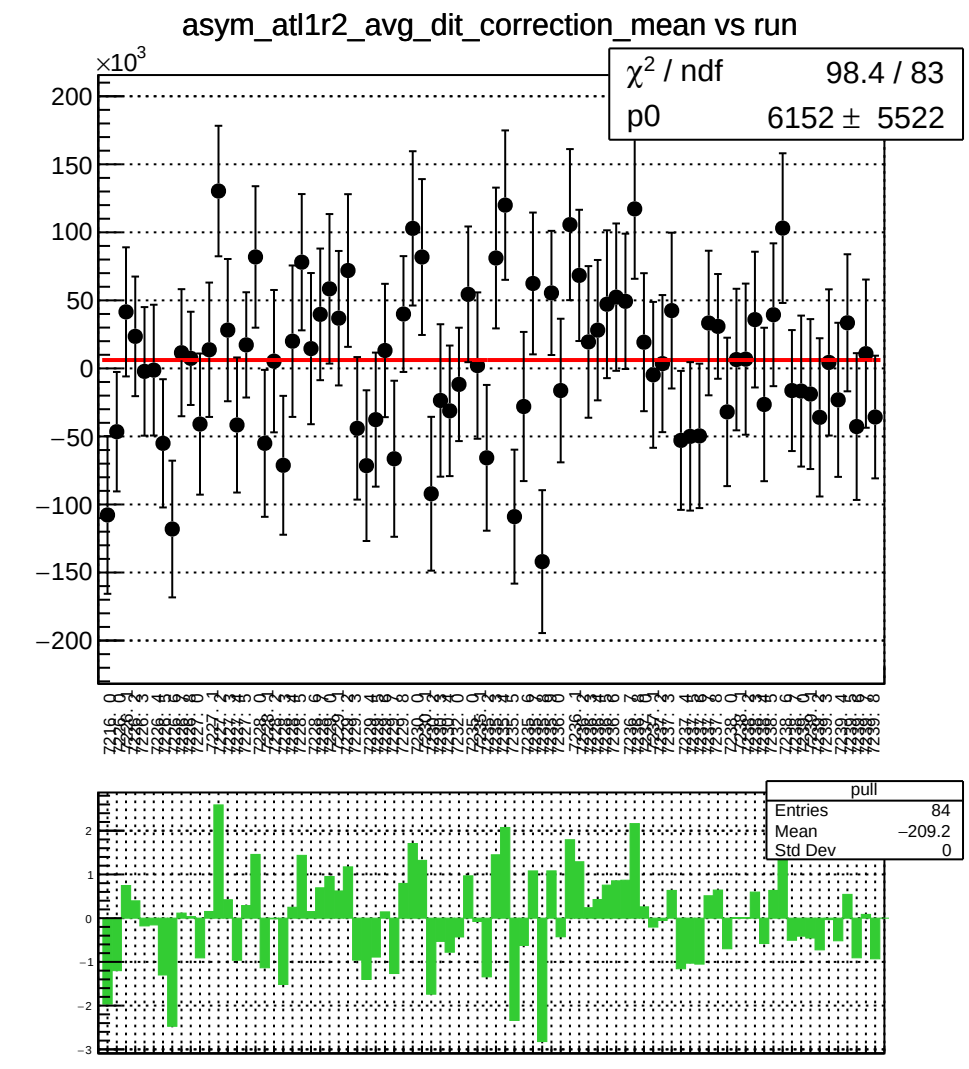

pull1D
Entries 84
Mean −0.00547
Std Dev 1.086

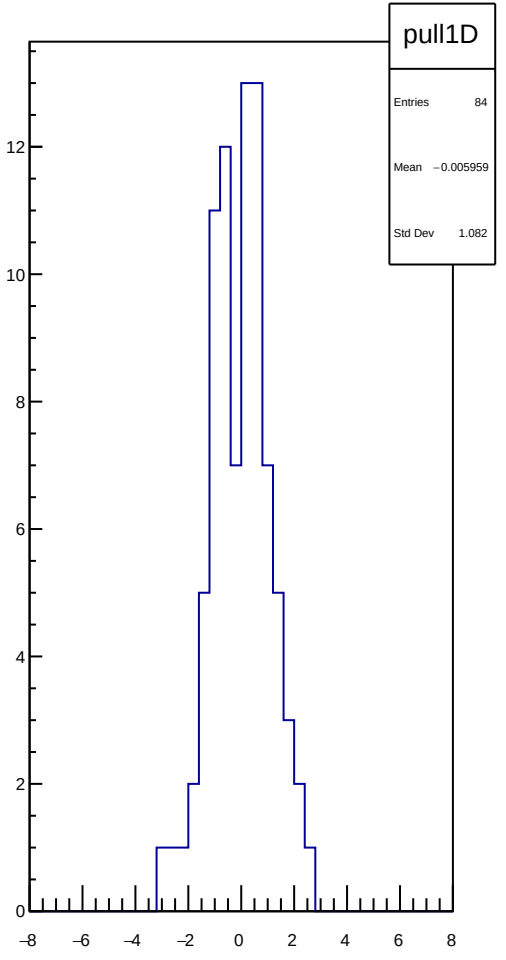

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ² / ndf 7049 / 83
p0 4927 ± 3.872
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000

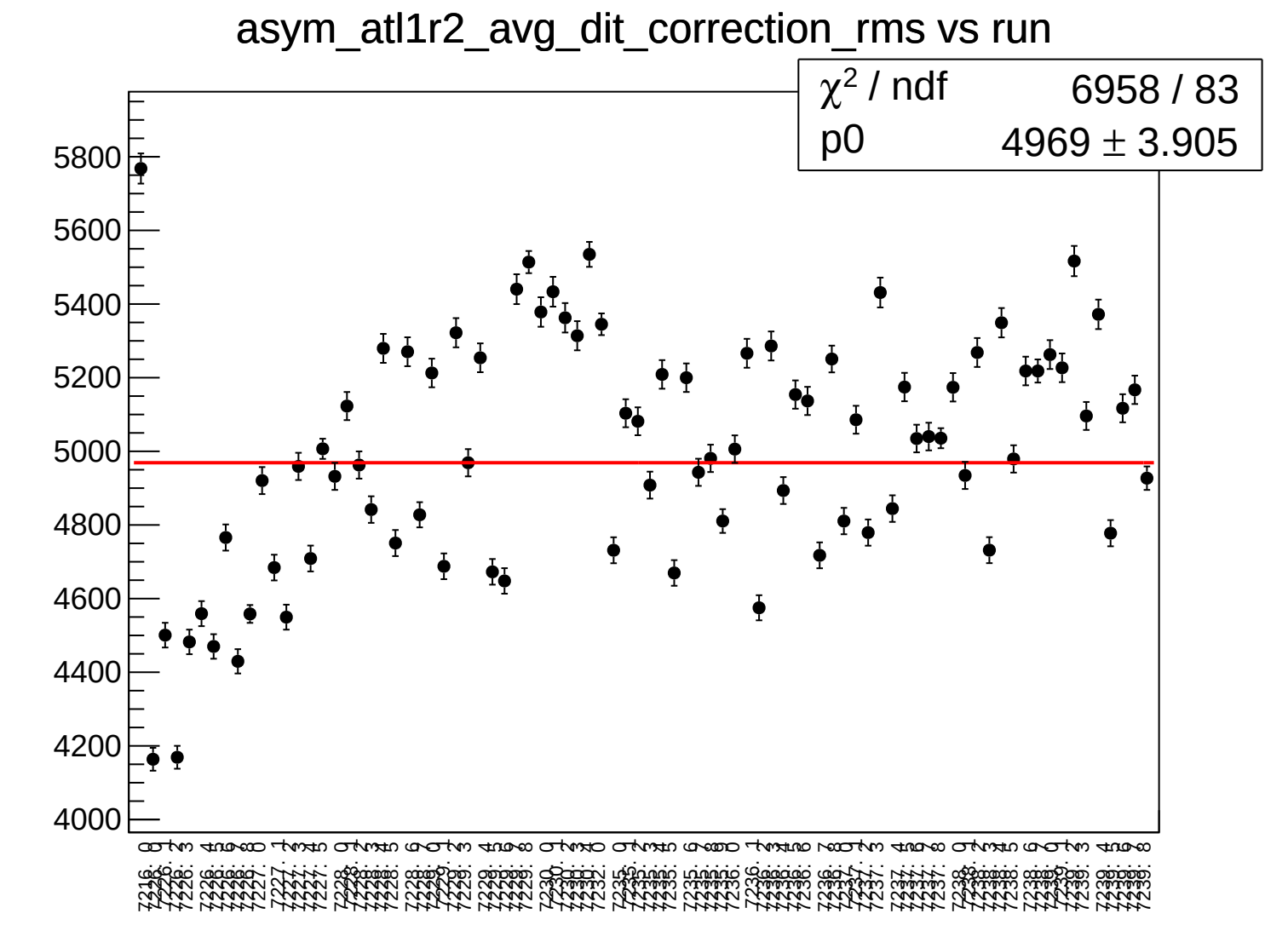

dit_asym_atl1r2_avg_mean vs run
χ² / ndf 86.52 / 83
p0 −1821 ± 1871
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 571
Std Dev 0
2
1
0
−1
−2

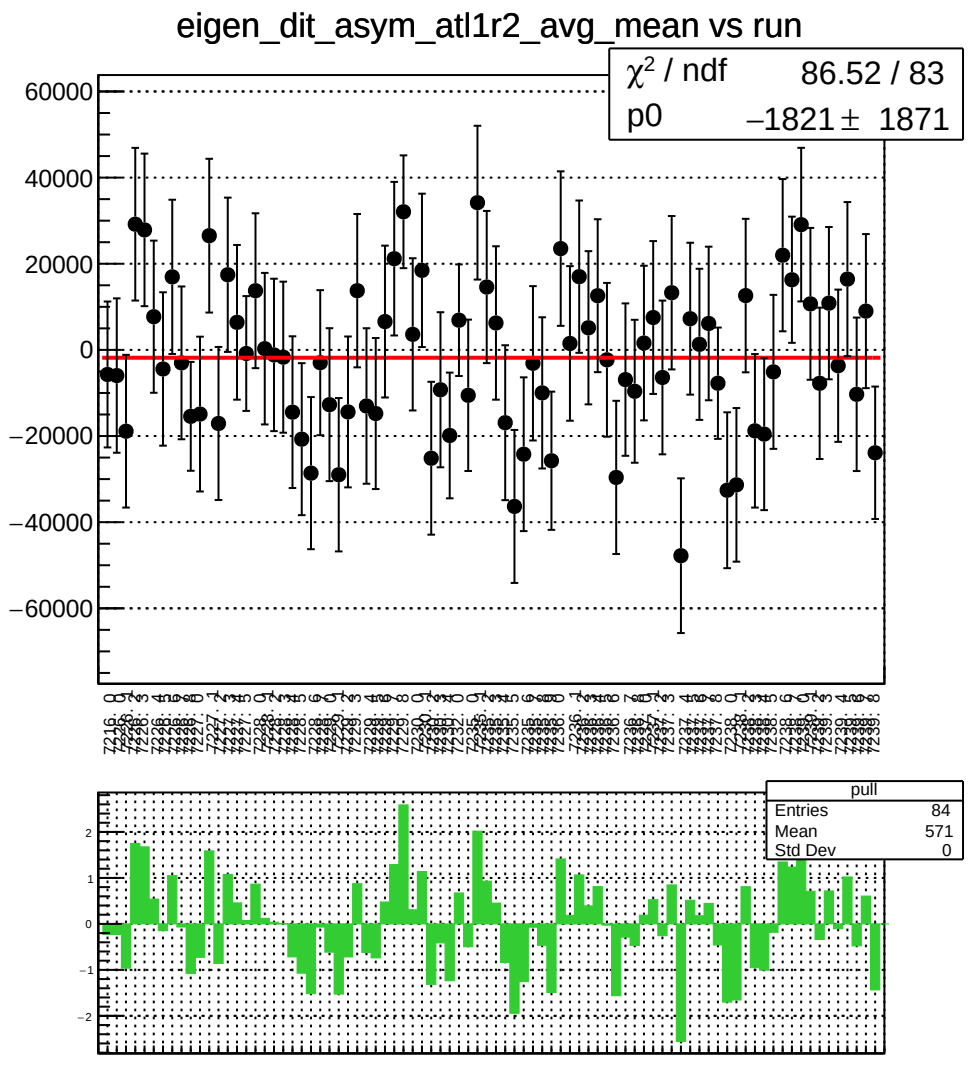

pull1D
Entries 84
Mean −0.001833
Std Dev 1.015
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

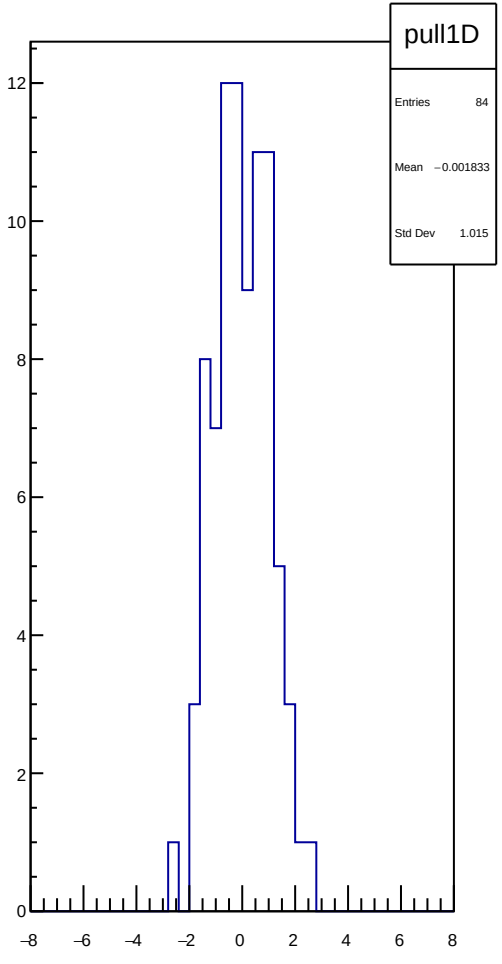

dit_asym_atl1r2_avg_rms vs run
χ² / ndf 112 / 83
p0 1687 ± 1.323
1740
1720
1700
1680
1660

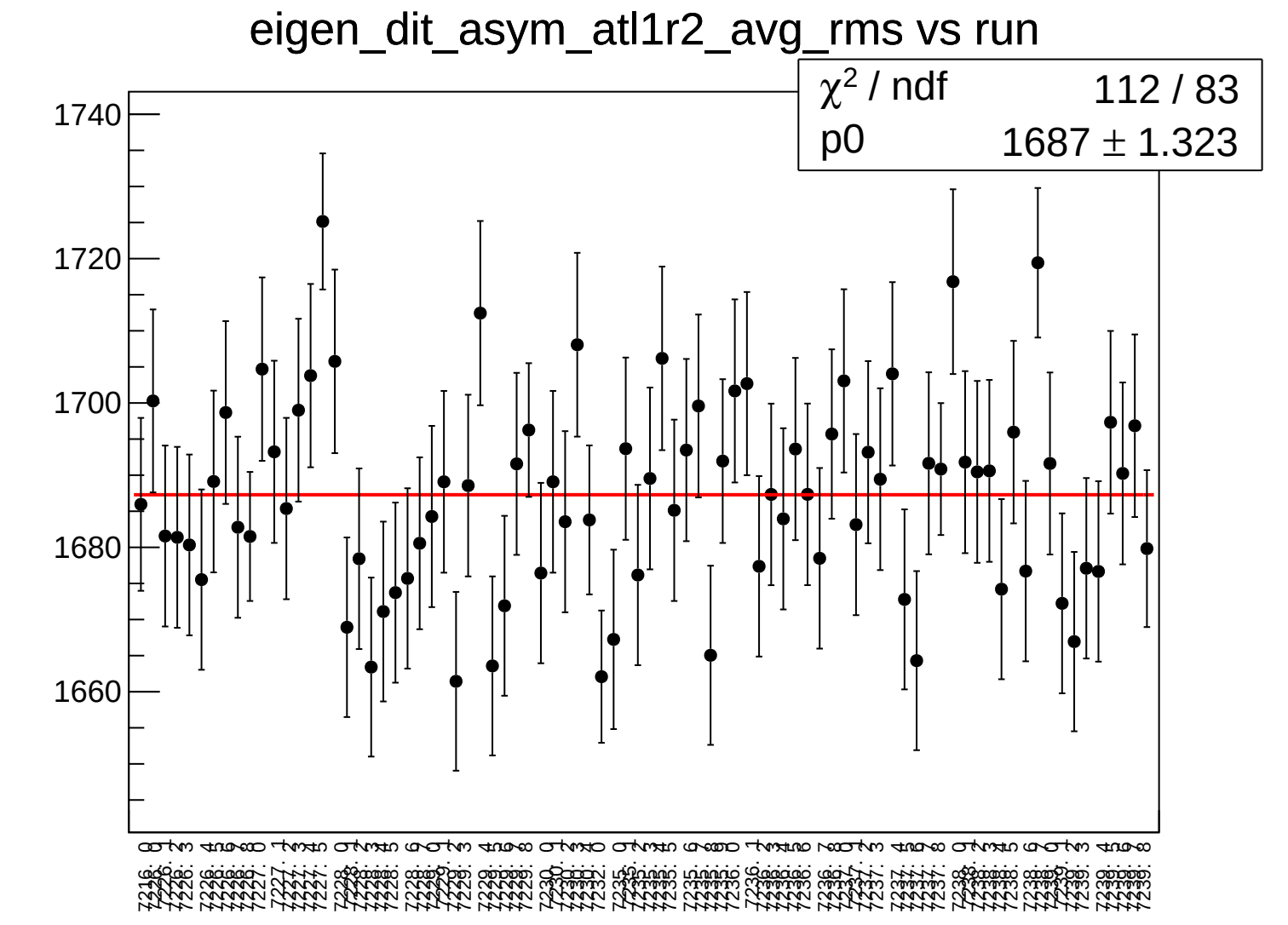

asym_atl1r2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 98.4 / 83
p0 6152 ± 5522
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 84
Mean −209.2
Std Dev 0
2
1
0
−1
−2
−3

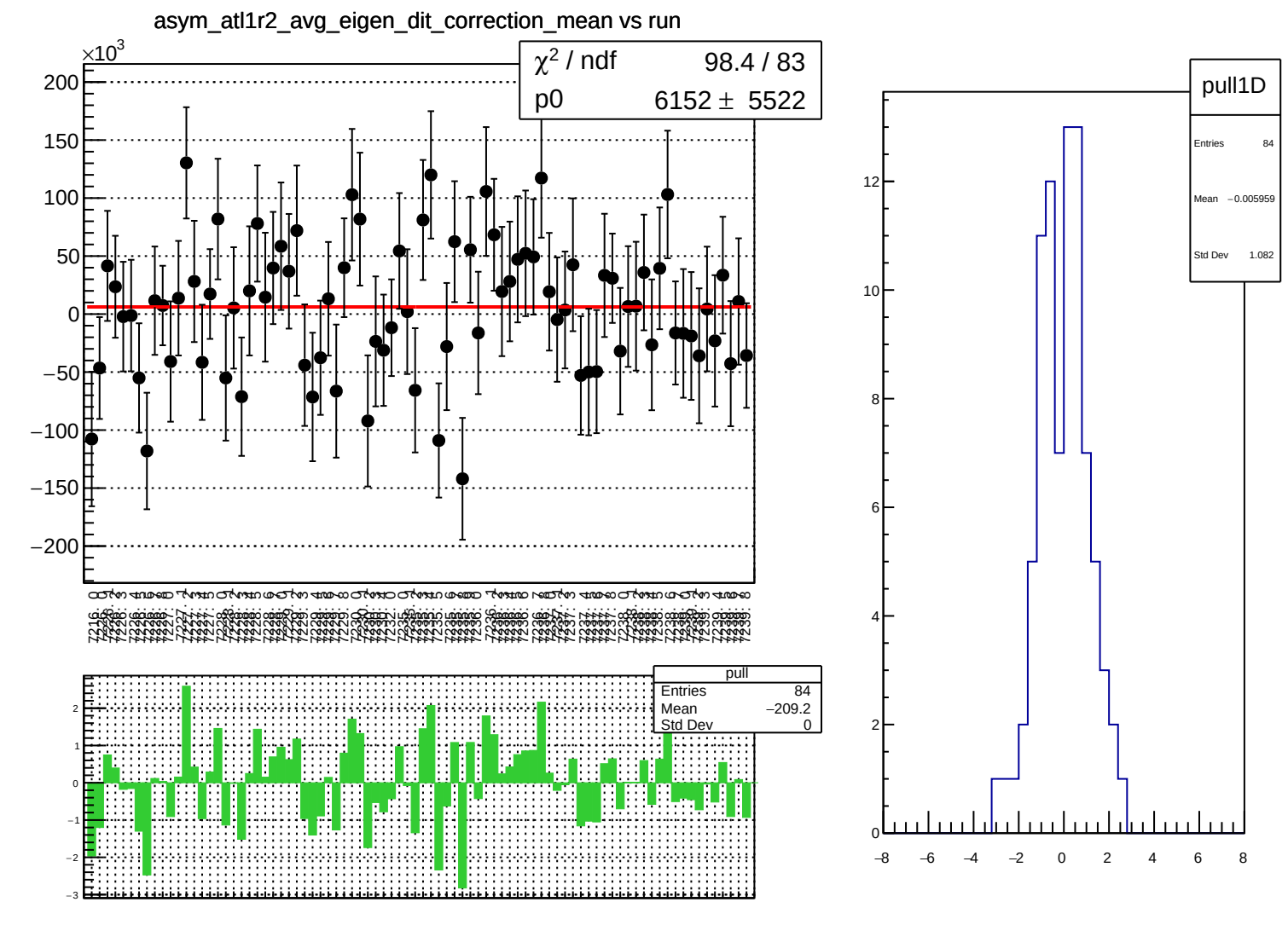

pull1D
Entries 84
Mean −0.005959
Std Dev 1.082
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

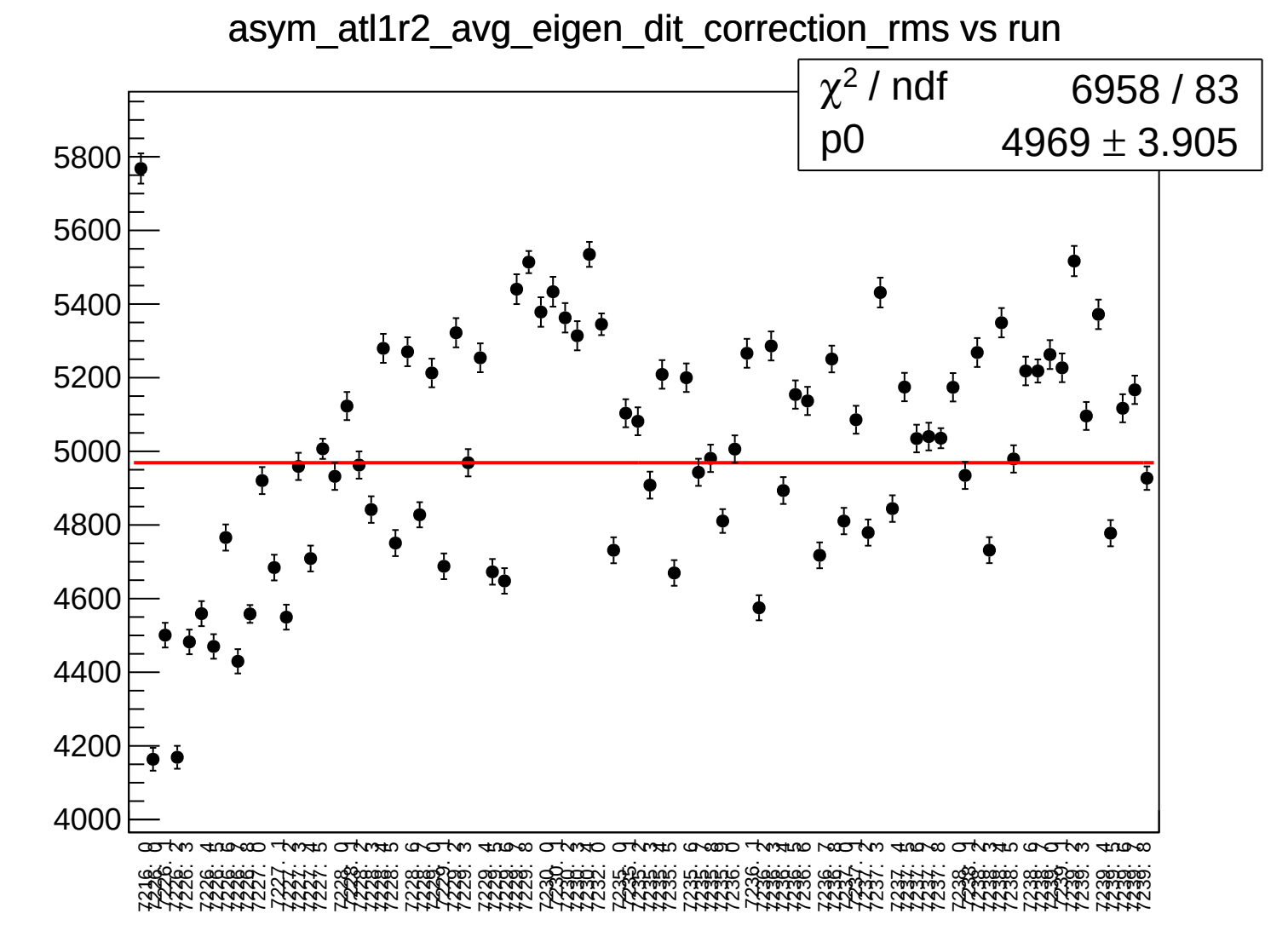

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 6958 / 83
p0 4969 ± 3.905
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000

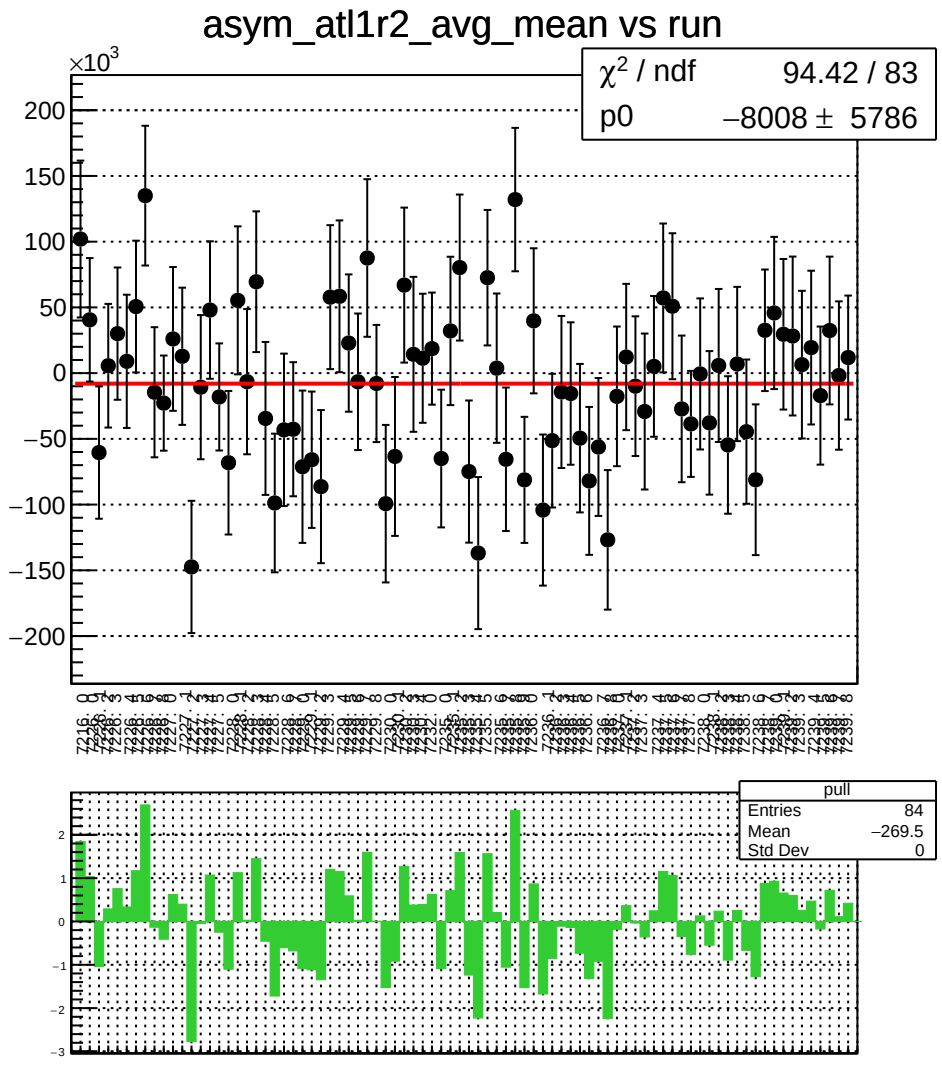

eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 86.52 / 83
p0 −1821 ± 1871
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 571
Std Dev 0
2
1
0
−1
−2

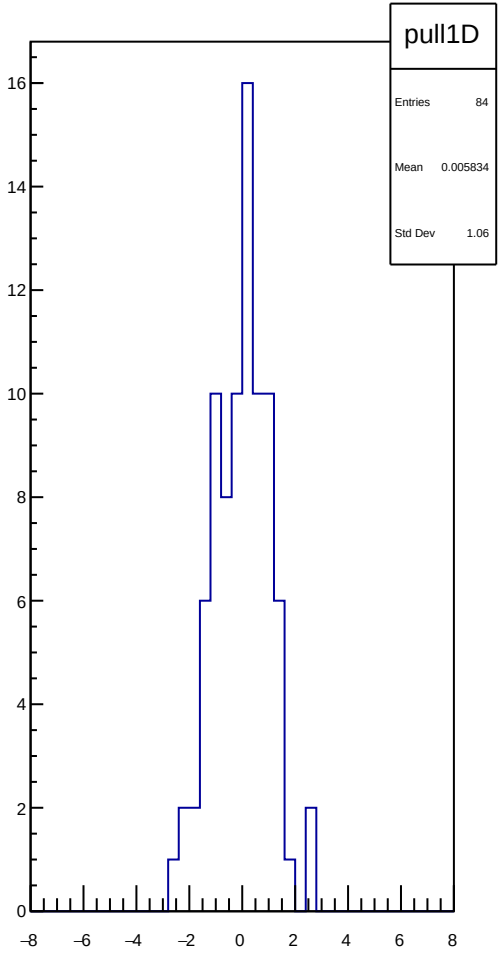

pull1D
Entries 84
Mean −0.001833
Std Dev 1.015
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

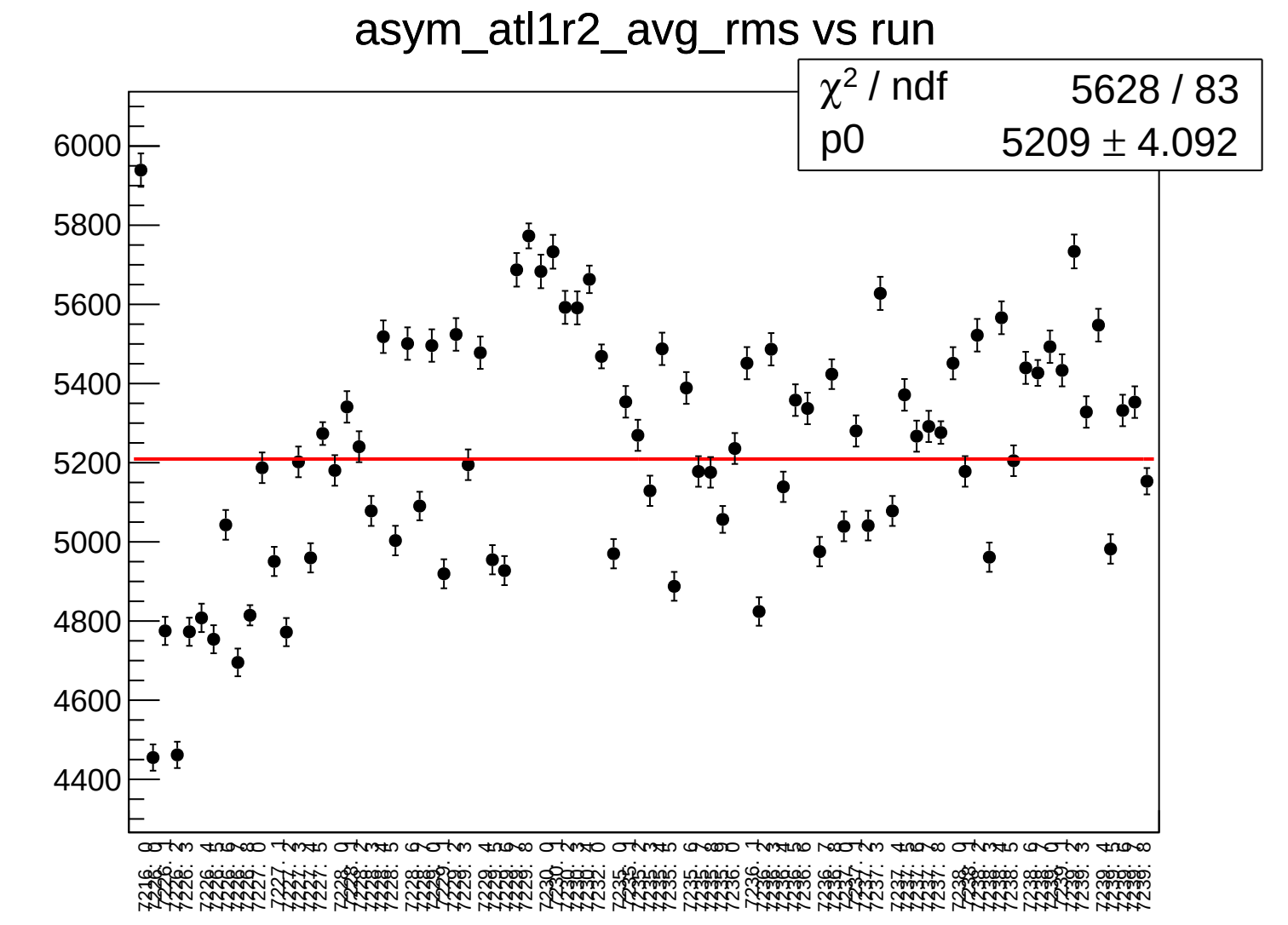

eigen_dit_asym_atl1r2_avg_rms vs run
χ^2 / ndf 112 / 83
p0 1687 ± 1.323
1740
1720
1700
1680
1660

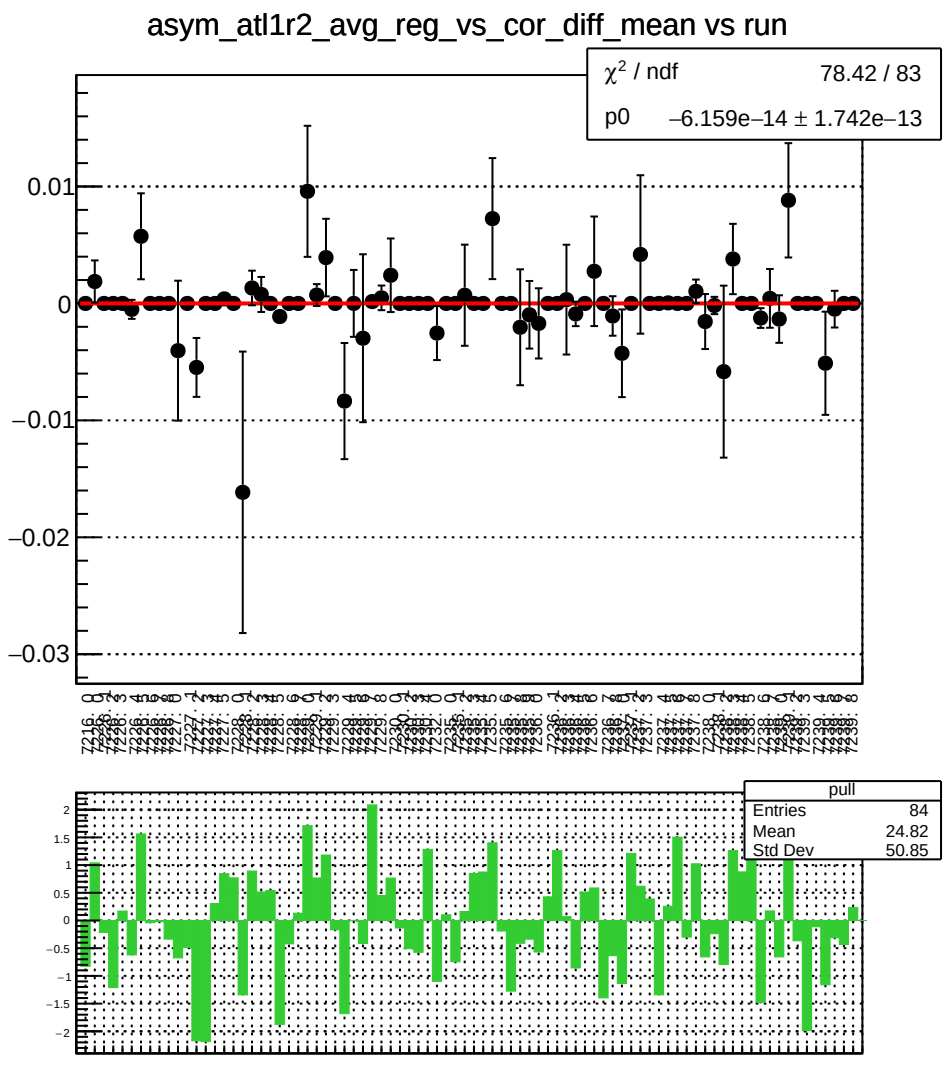

asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 98.4 / 83
p0 6152 ± 5522
pull
Entries 84
Mean −209.2
Std Dev 0
pull1D
Entries 84
Mean −0.005959
Std Dev 1.082

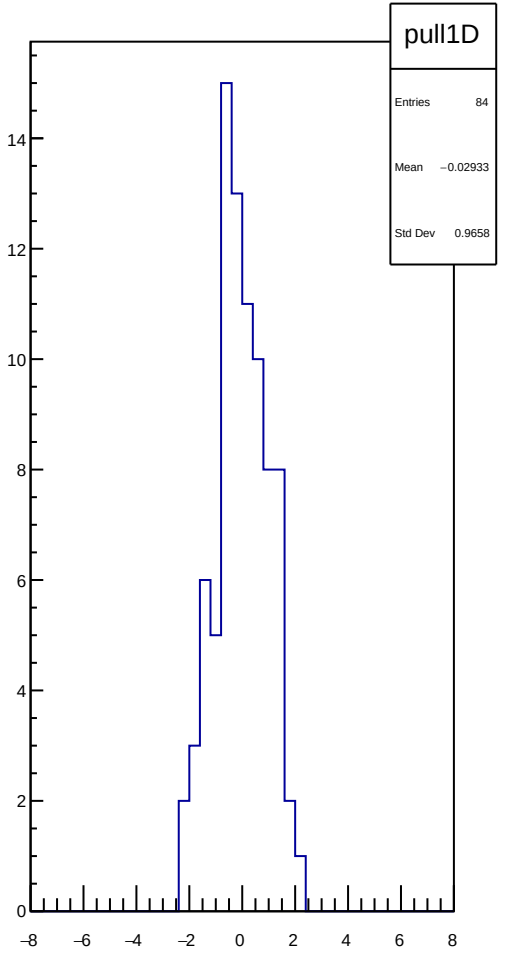

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 6958 / 83
p0 4969 ± 3.905
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000

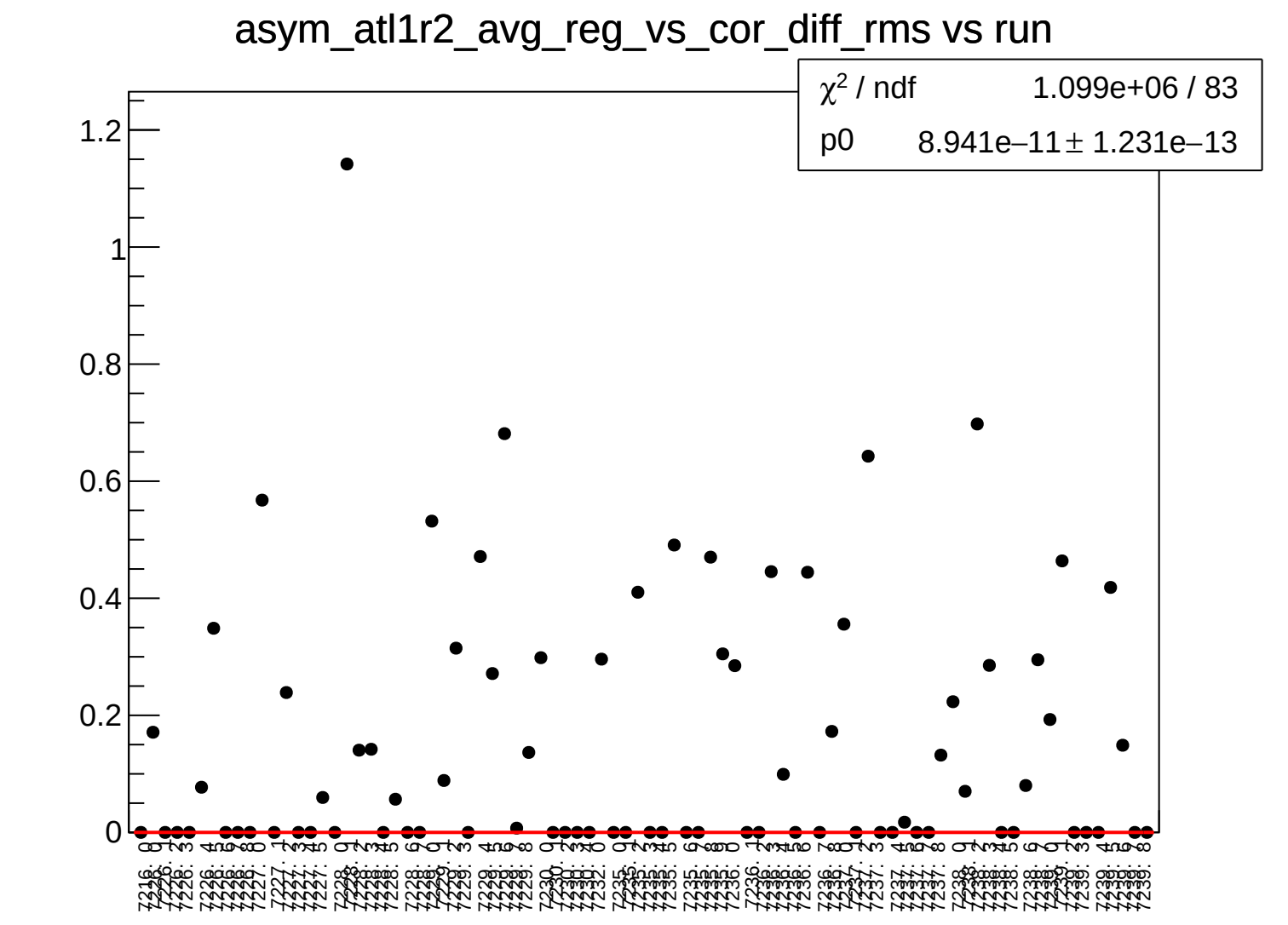

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 94.42 / 83
p0 −8008 ± 5786
pull
Entries 84
Mean −269.5
Std Dev 0

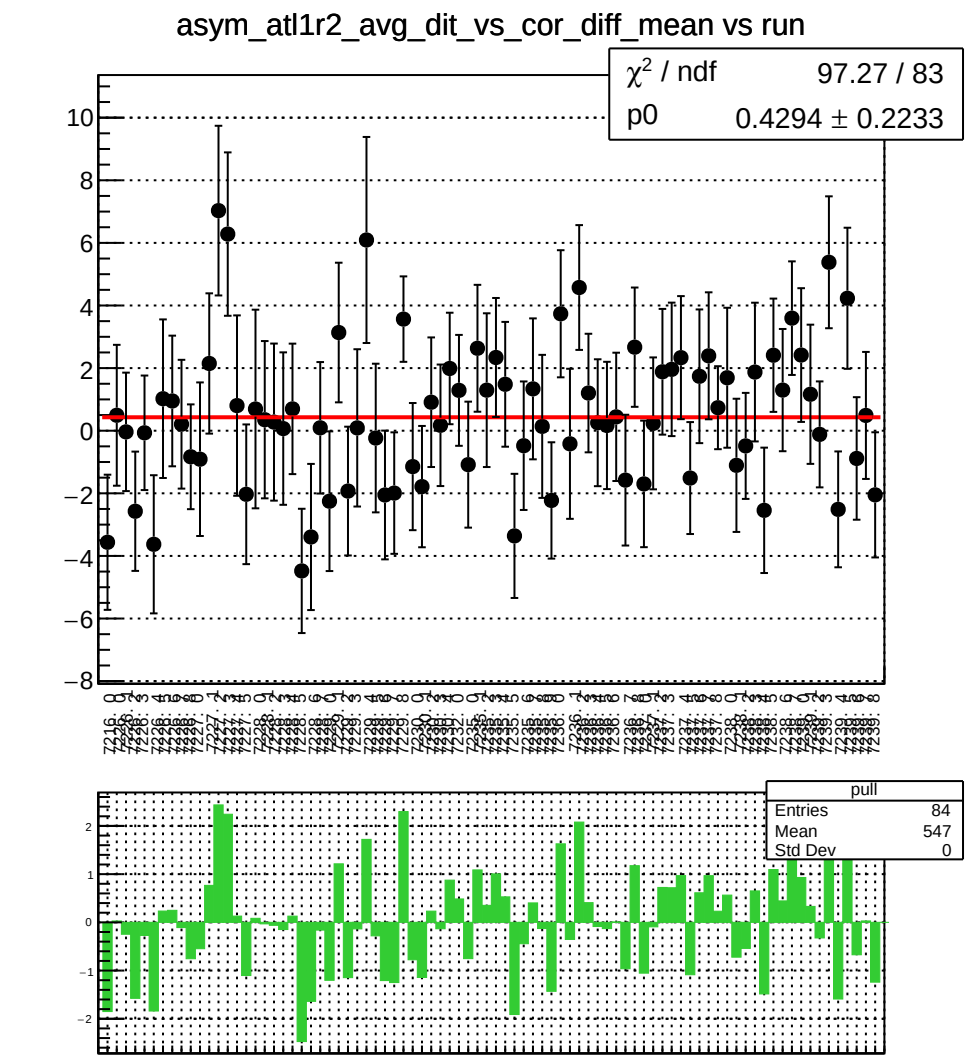

pull1D
Entries 84
Mean 0.005834
Std Dev 1.06

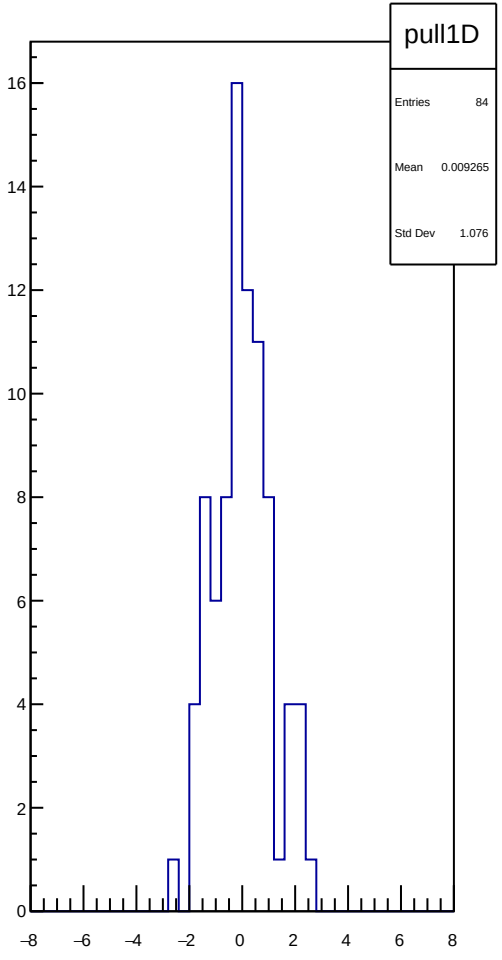

asym_atl1r2_avg_rms vs run
χ² / ndf 5628 / 83
p0 5209 ± 4.092
6000
5800
5600
5400
5200
5000
4800
4600
4400

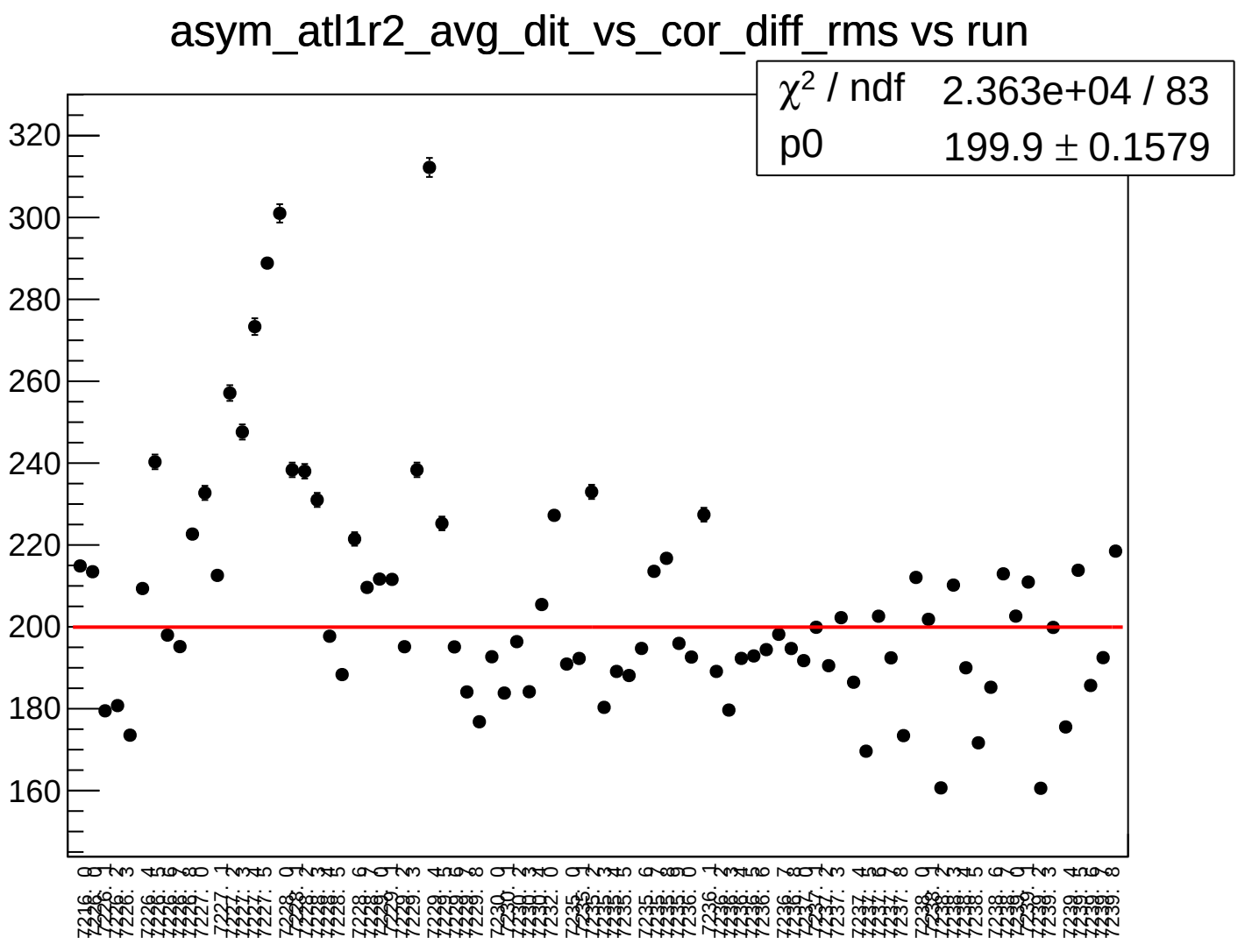

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 78.42 / 83
p0 −6.159e−14 ± 1.742e−13
0.01
0
−0.01
−0.02
−0.03
pull
Entries 84
Mean 24.82
Std Dev 50.85
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

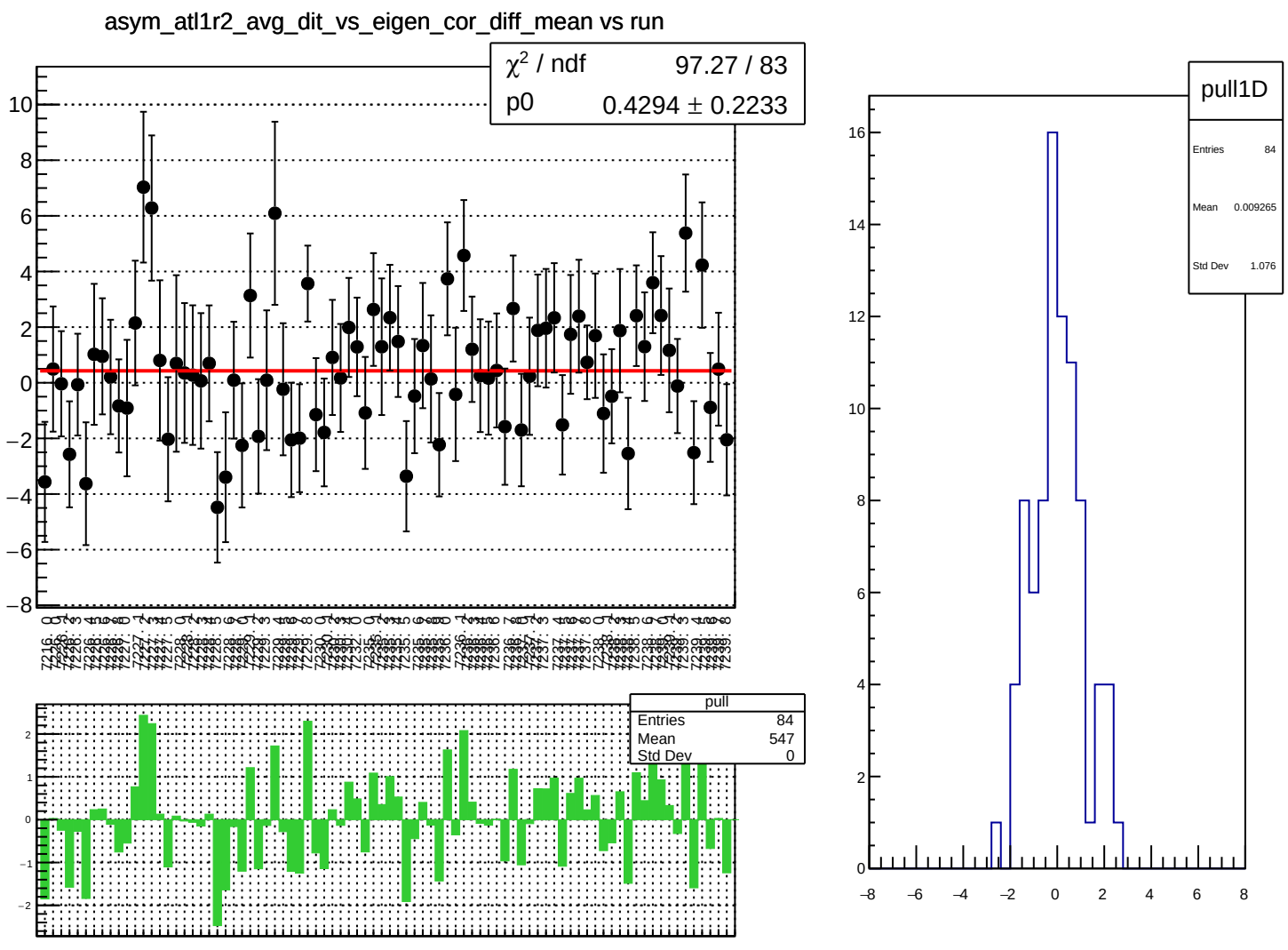

pull1D
Entries 84
Mean −0.02933
Std Dev 0.9658
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

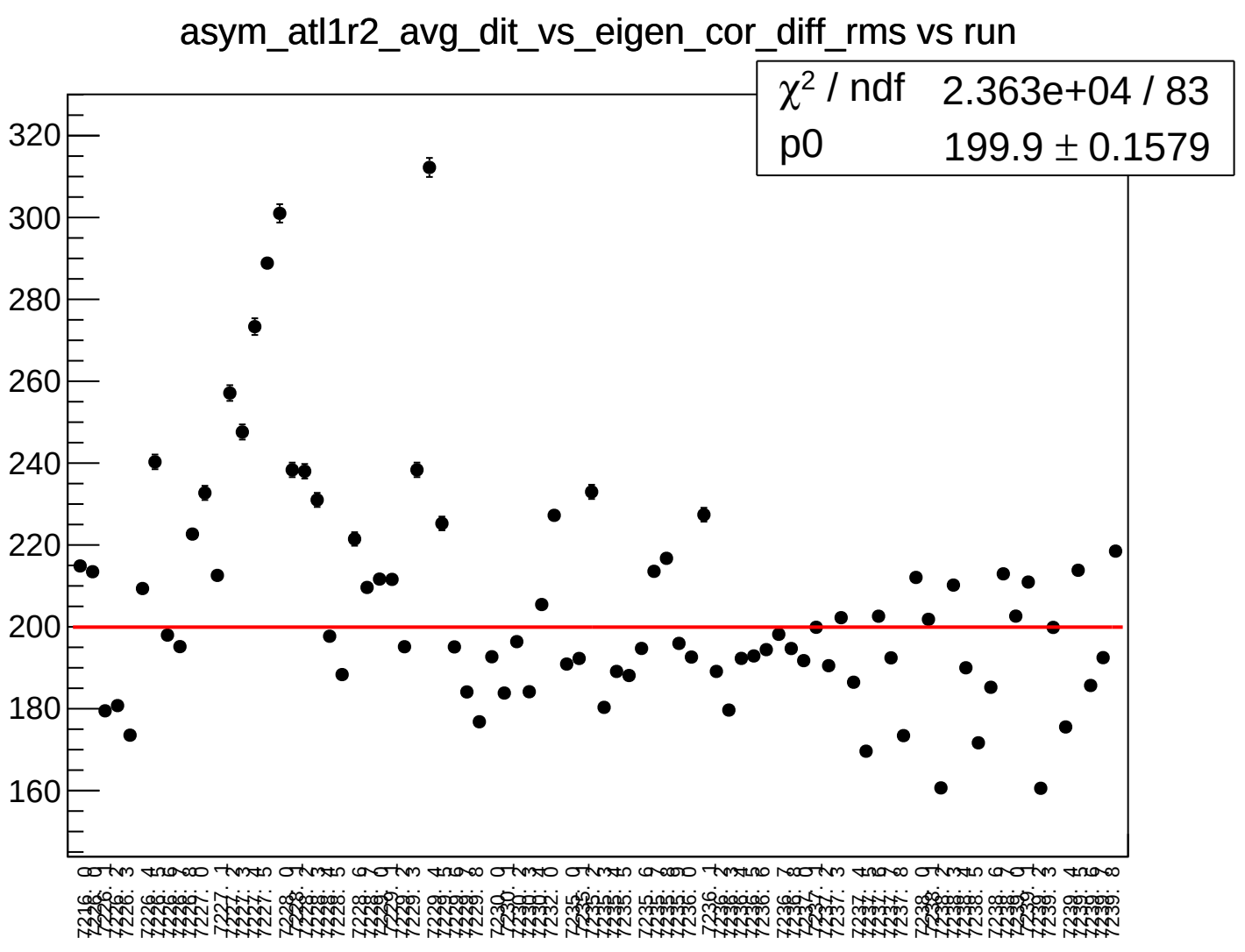

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.099e+06 / 83
p0 8.941e−11 ± 1.231e−13
1.2
1
0.8
0.6
0.4
0.2
0

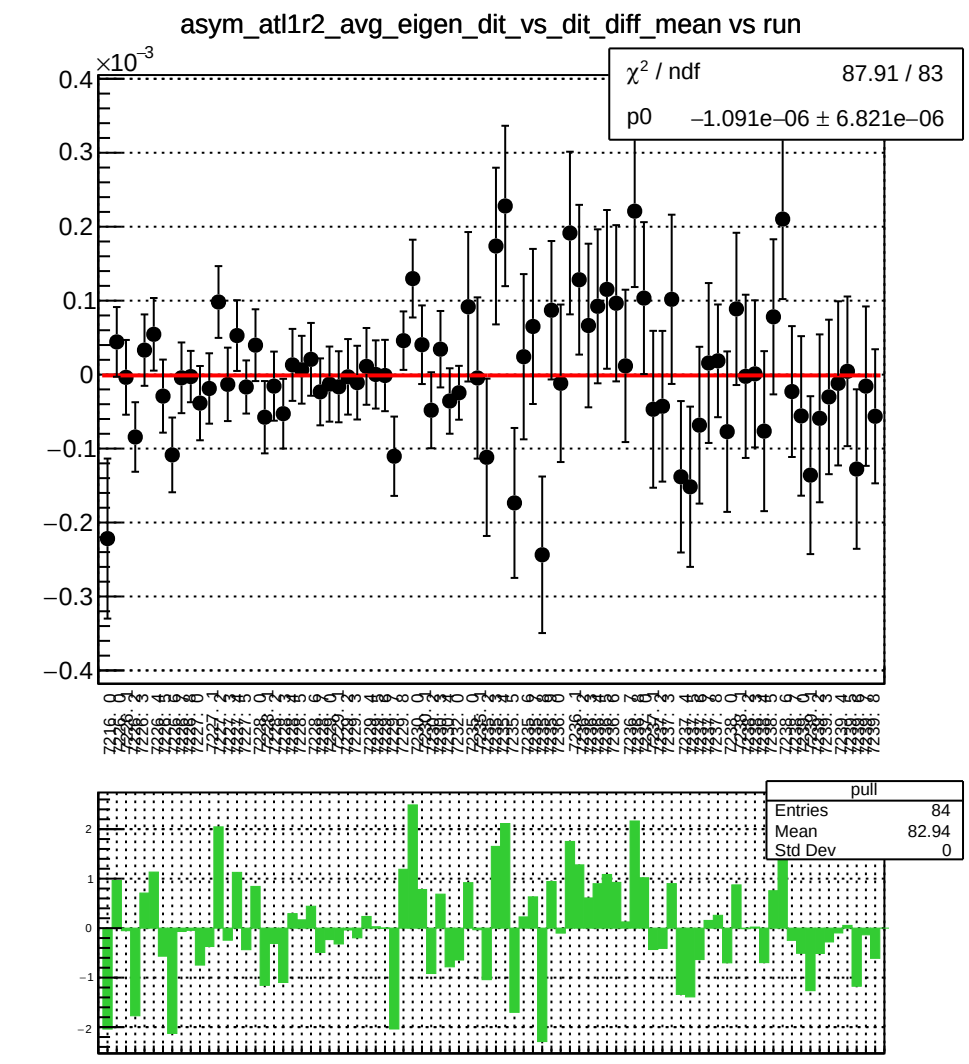

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 97.27 / 83
p0 0.4294 ± 0.2233
pull
Entries 84
Mean 547
Std Dev 0

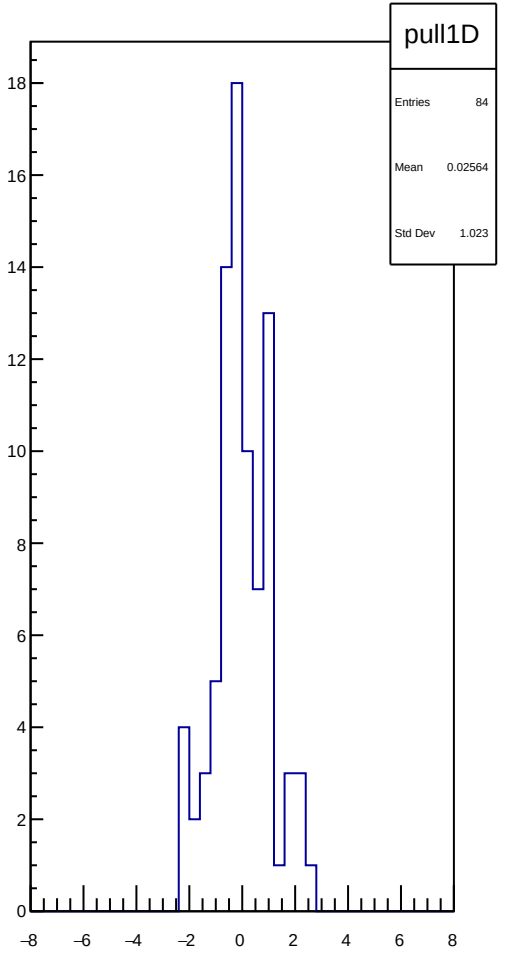

pull1D
Entries 84
Mean 0.009265
Std Dev 1.076

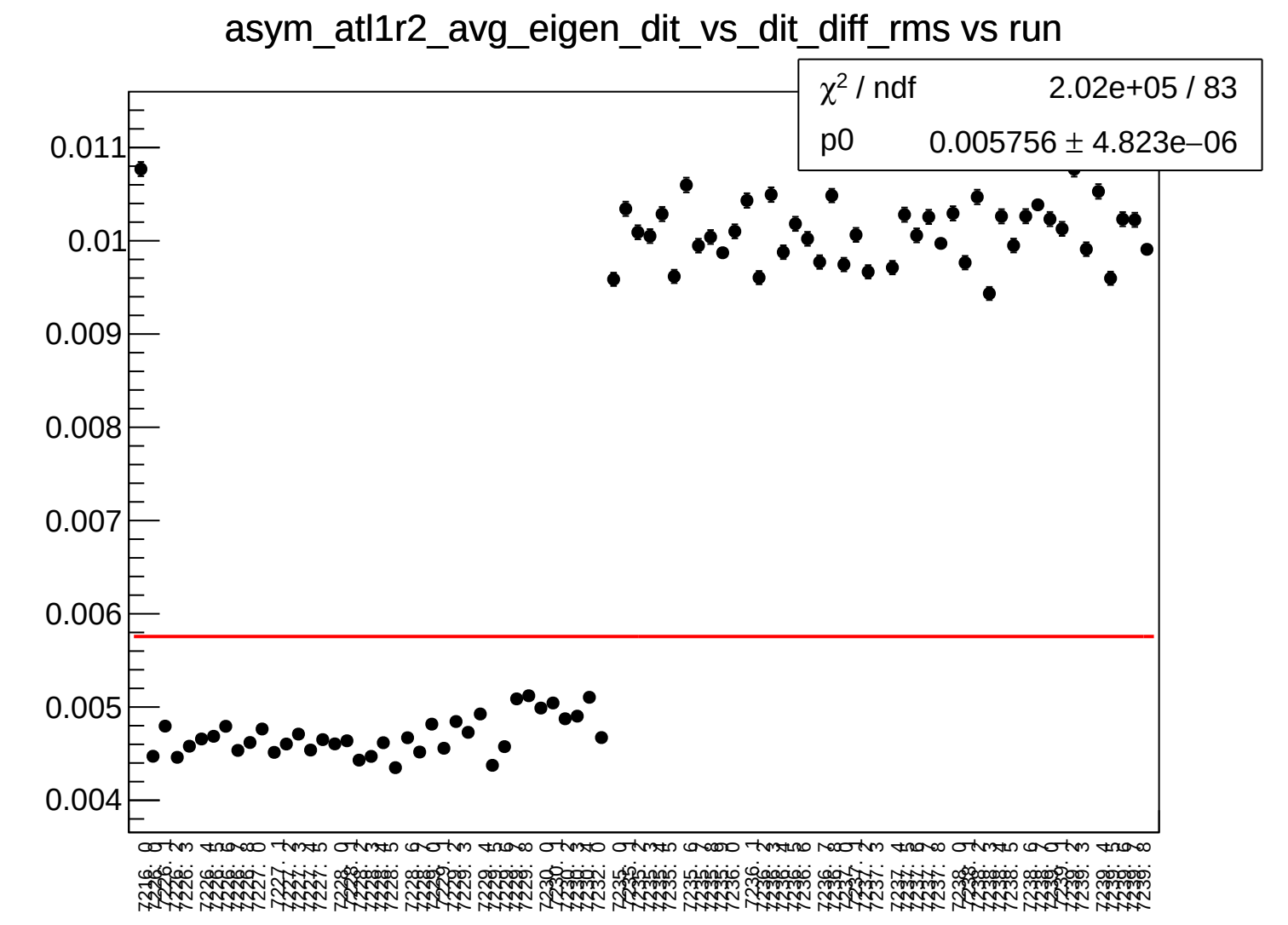

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.363e+04 / 83
p0 199.9 ± 0.1579
320
300
280
260
240
220
200
180
160

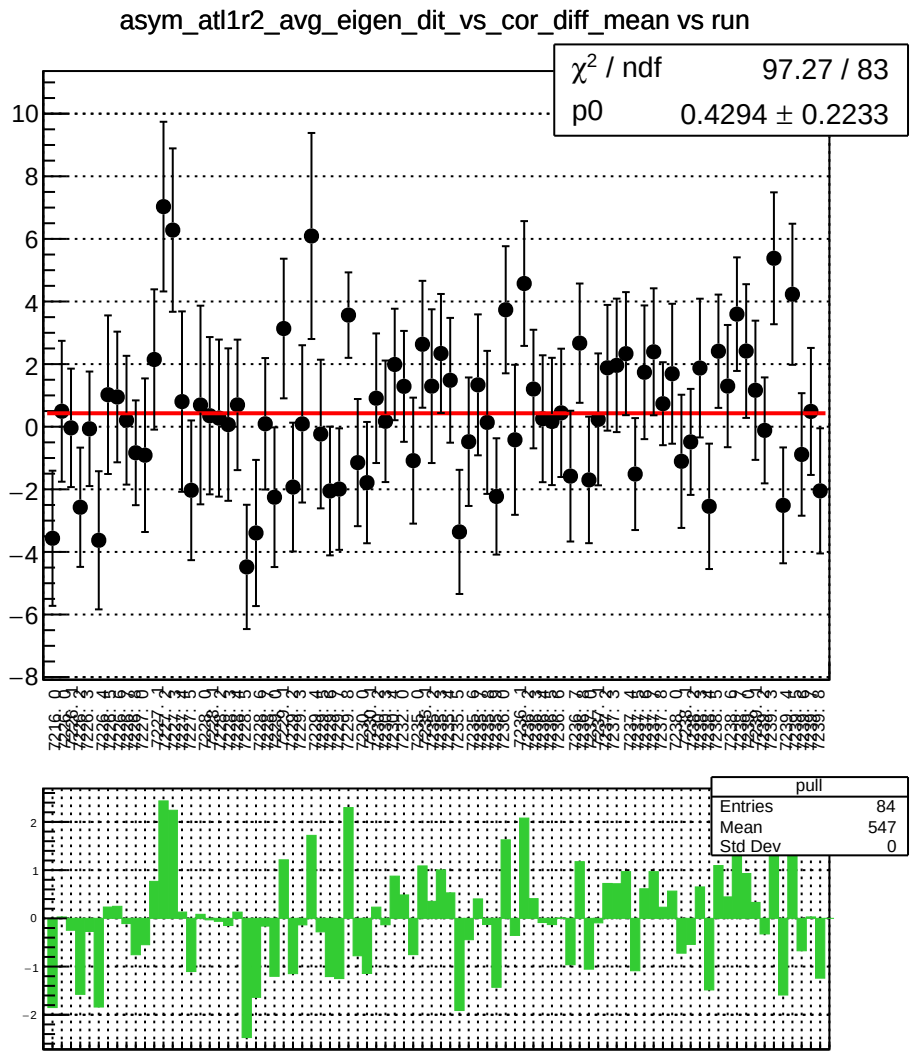

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.27 / 83
p0 0.4294 ± 0.2233
pull
Entries 84
Mean 547
Std Dev 0
pull1D
Entries 84
Mean 0.009265
Std Dev 1.076

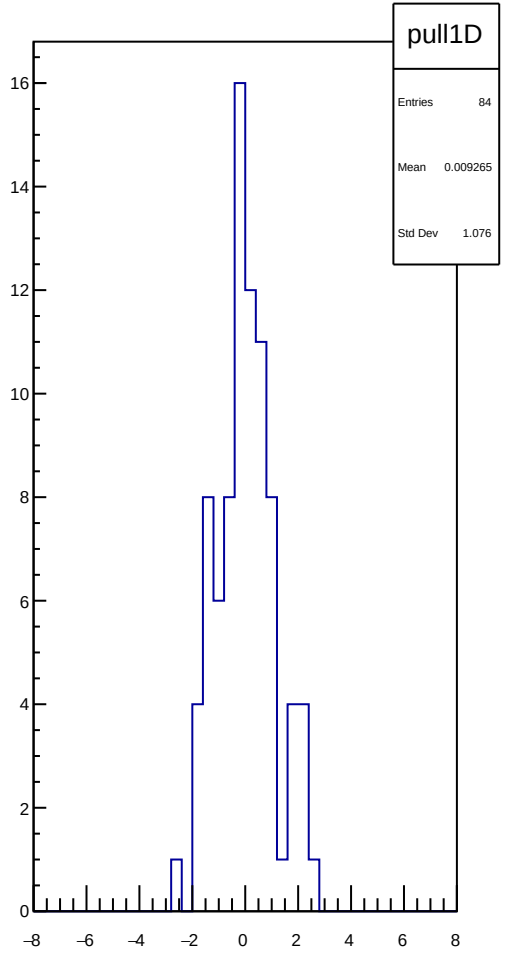

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.363e+04 / 83
p0 199.9 ± 0.1579
320
300
280
260
240
220
200
180
160

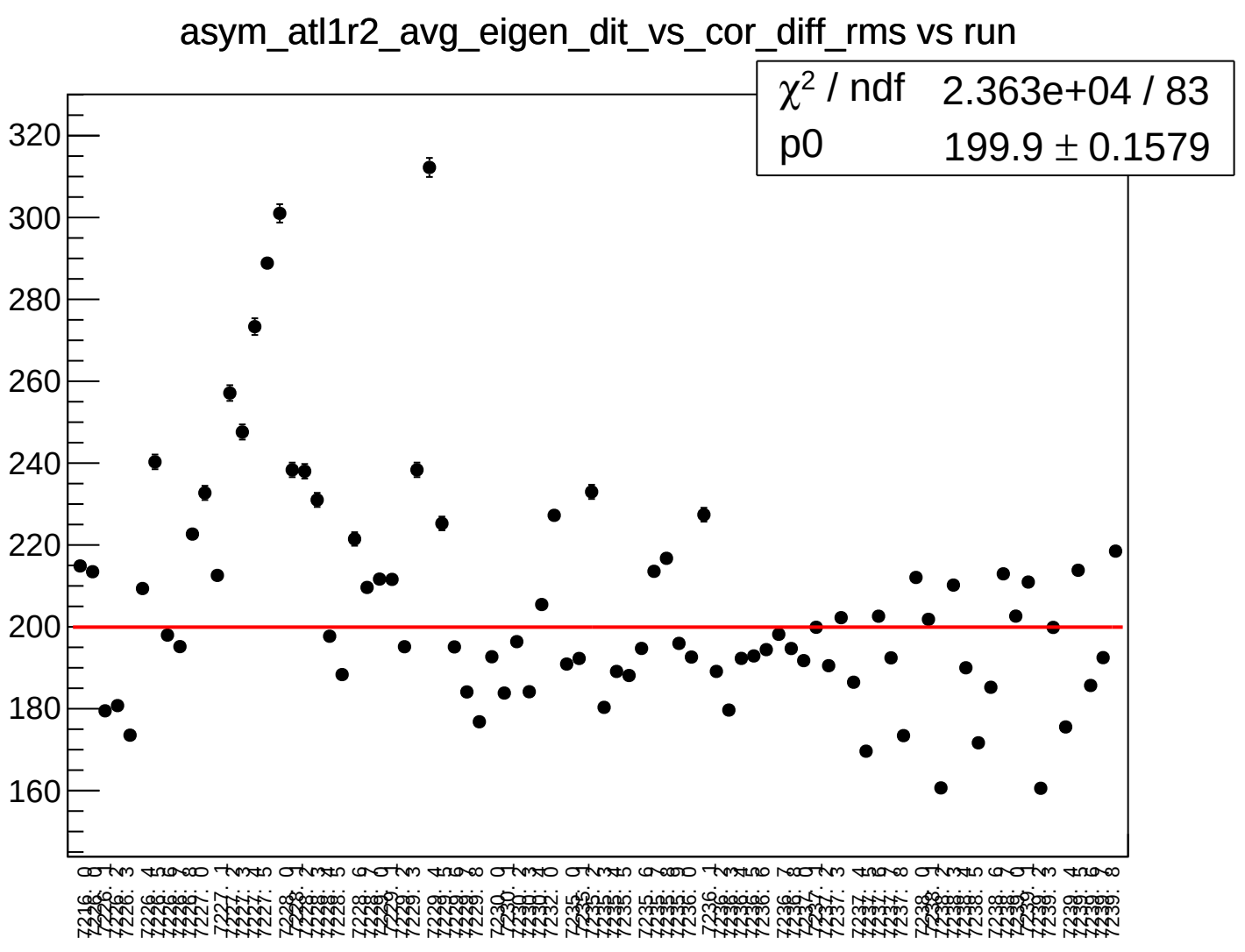

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.91 / 83
p0 −1.091e−06 ± 6.821e−06
pull
Entries 84
Mean 82.94
Std Dev 0

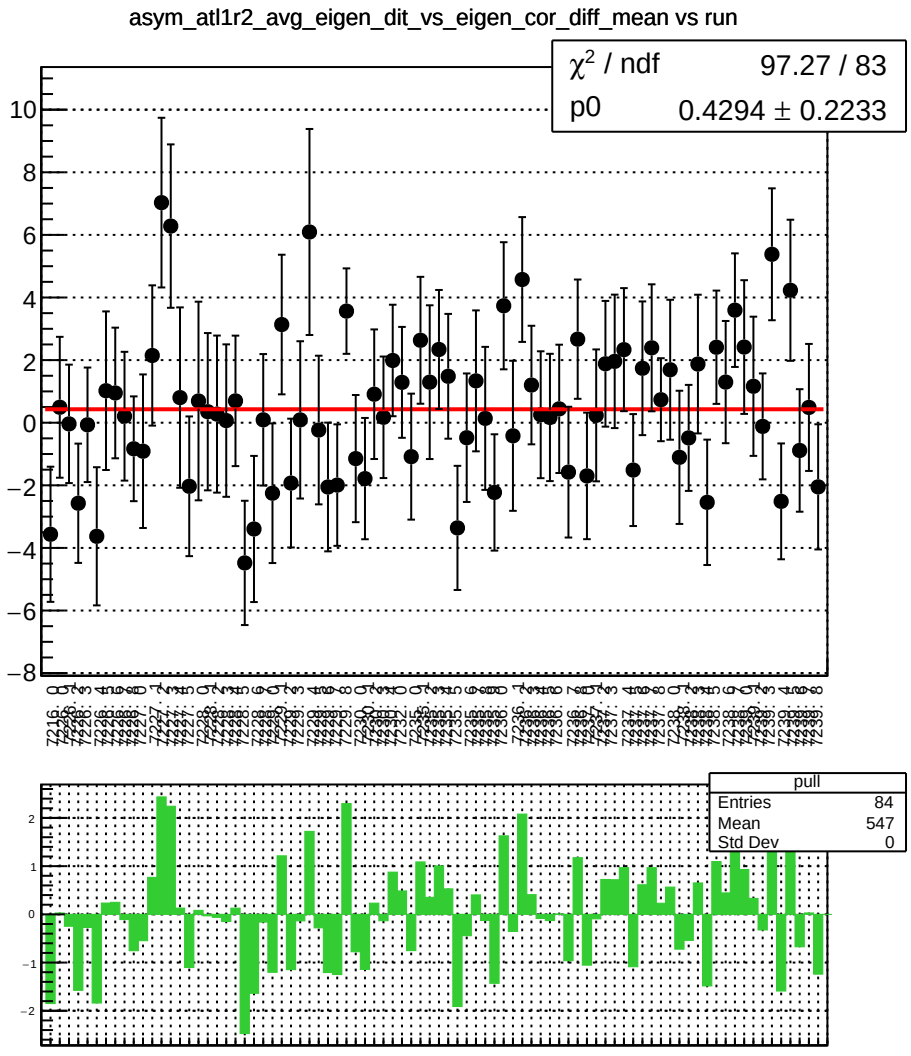

pull1D
Entries 84
Mean 0.02564
Std Dev 1.023

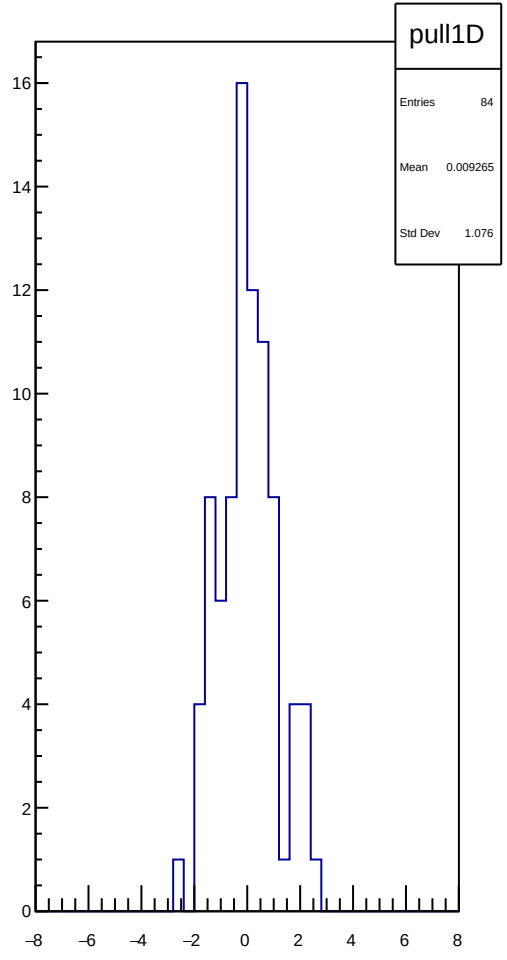

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.02e+05 / 83
p0 0.005756 ± 4.823e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004

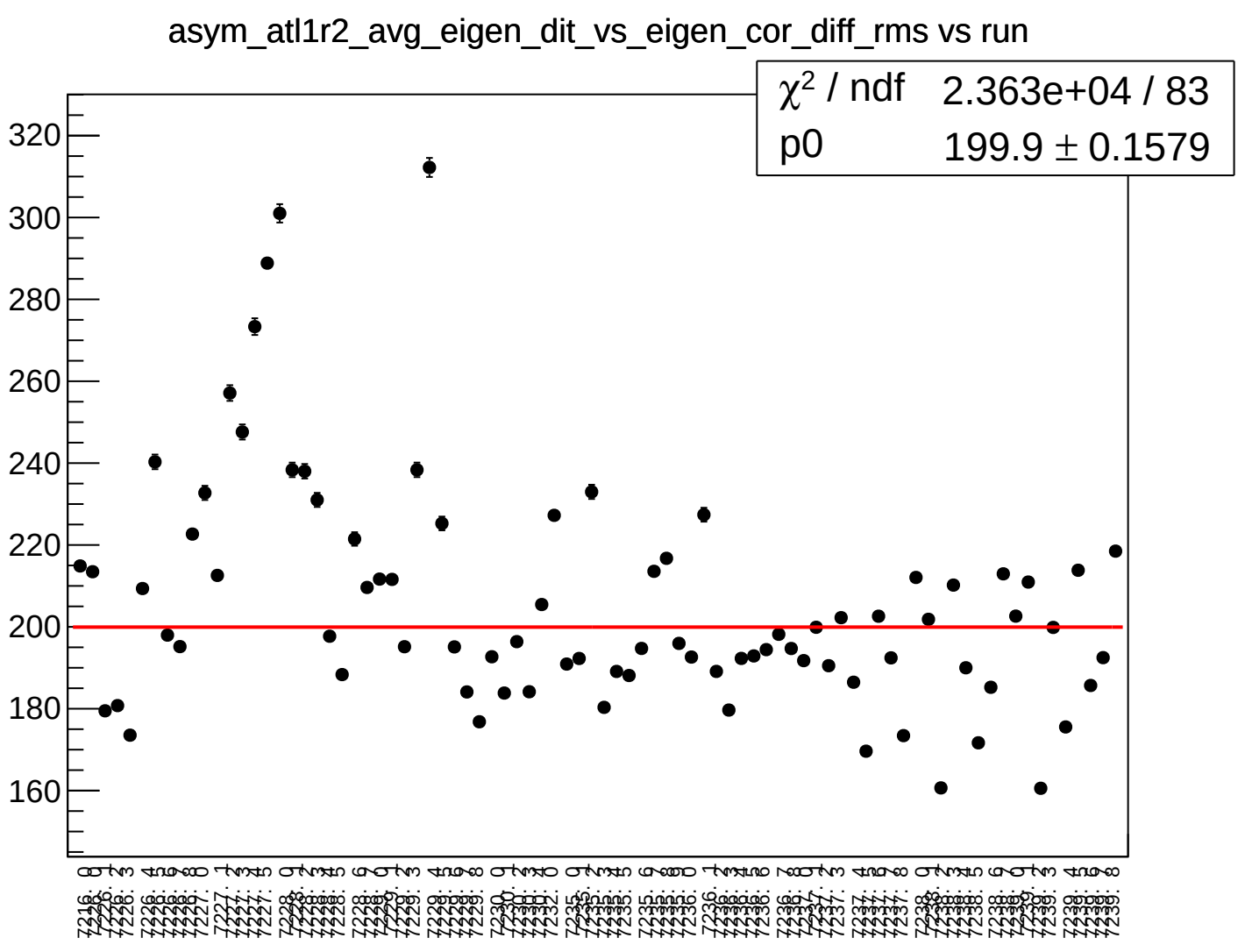

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.27 / 83
p0 0.4294 ± 0.2233
pull
Entries 84
Mean 547
Std Dev 0

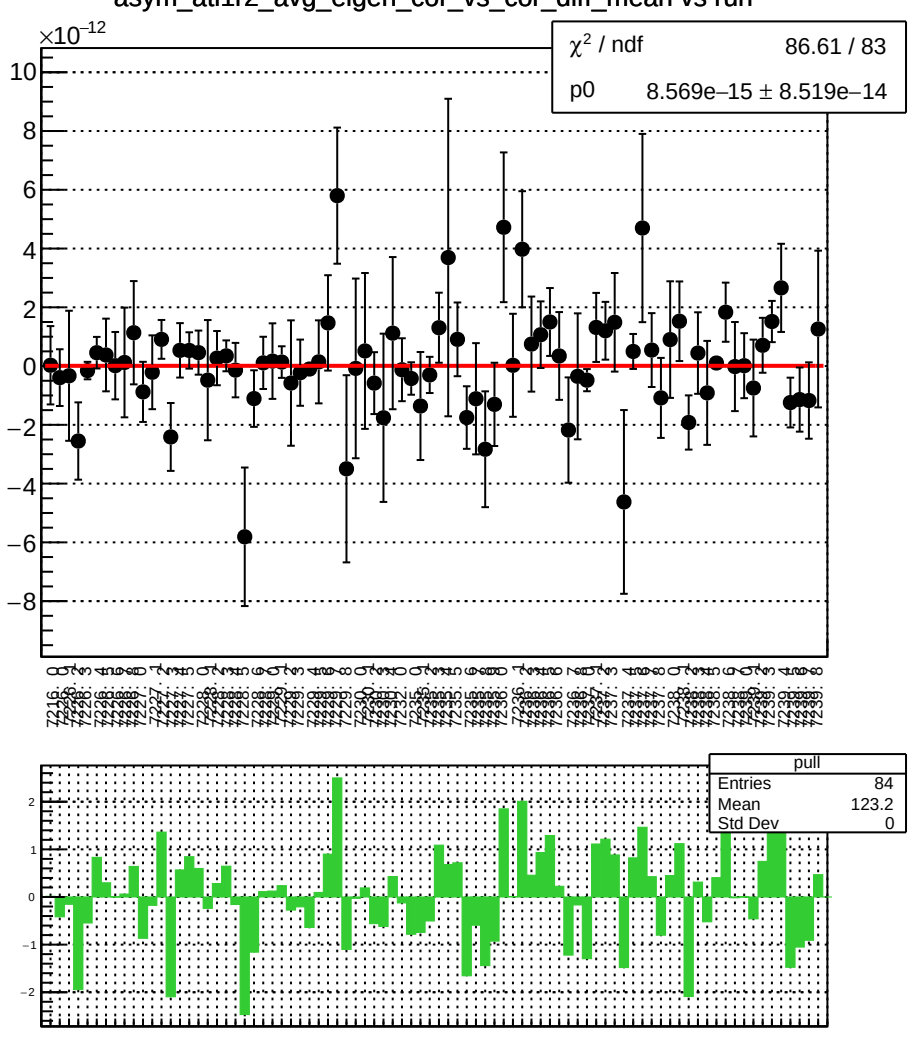

pull1D
Entries 84
Mean 0.009265
Std Dev 1.076

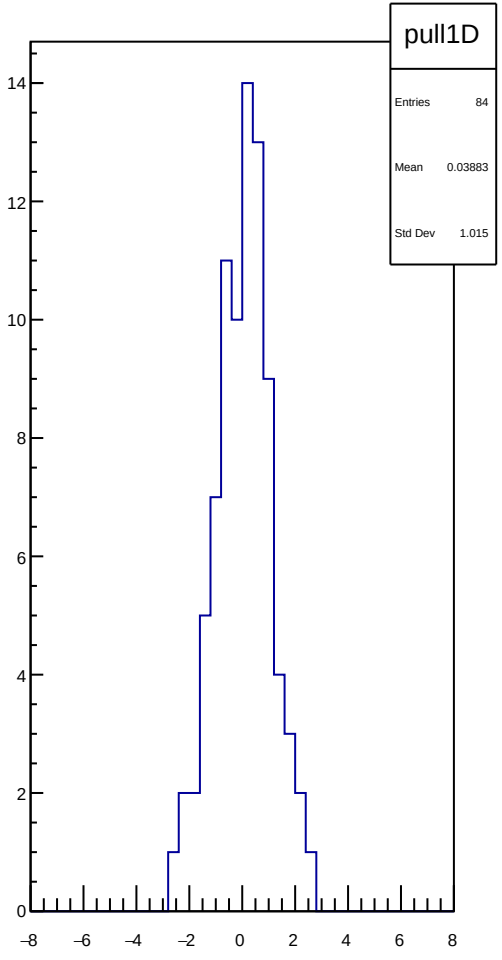

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.363e+04 / 83
p0 199.9 ± 0.1579
320
300
280
260
240
220
200
180
160

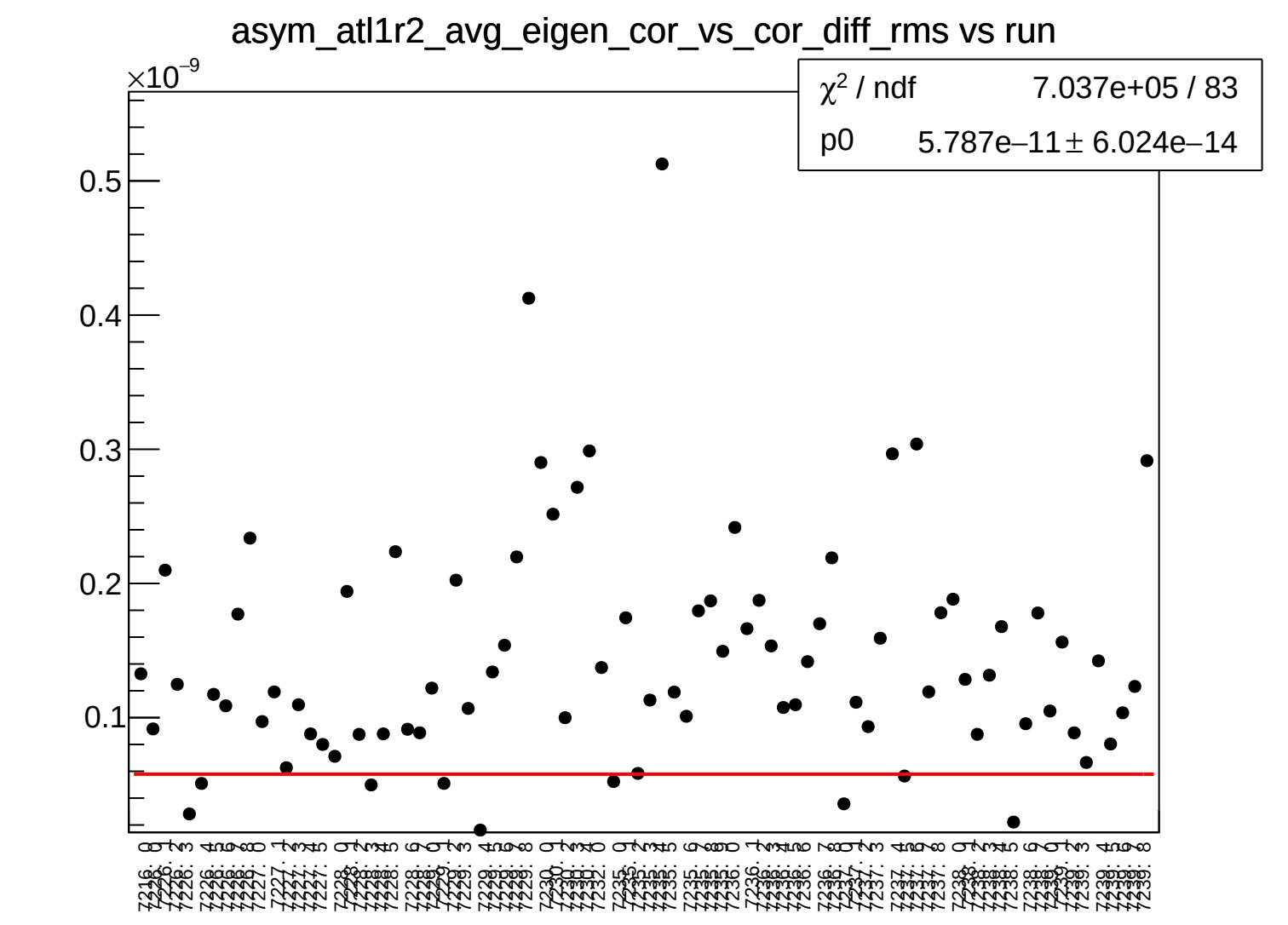

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.27 / 83
p0 0.4294 ± 0.2233
pull
Entries 84
Mean 547
Std Dev 0

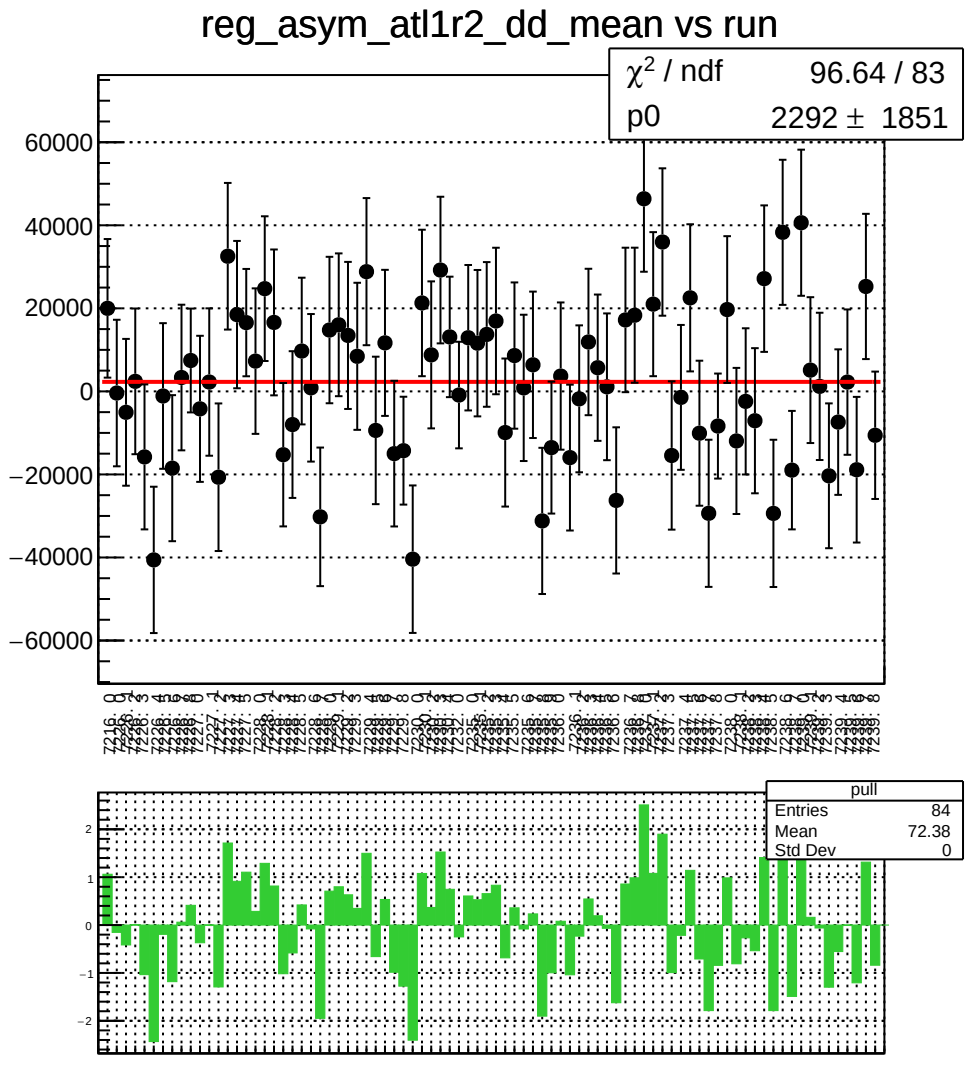

pull1D
Entries 84
Mean 0.009265
Std Dev 1.076

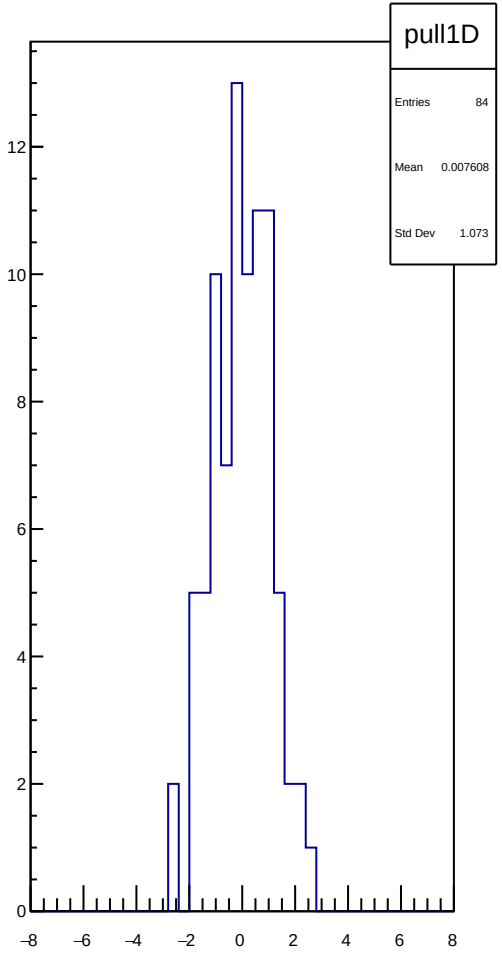

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.363e+04 / 83
p0 199.9 ± 0.1579
320
300
280
260
240
220
200
180
160

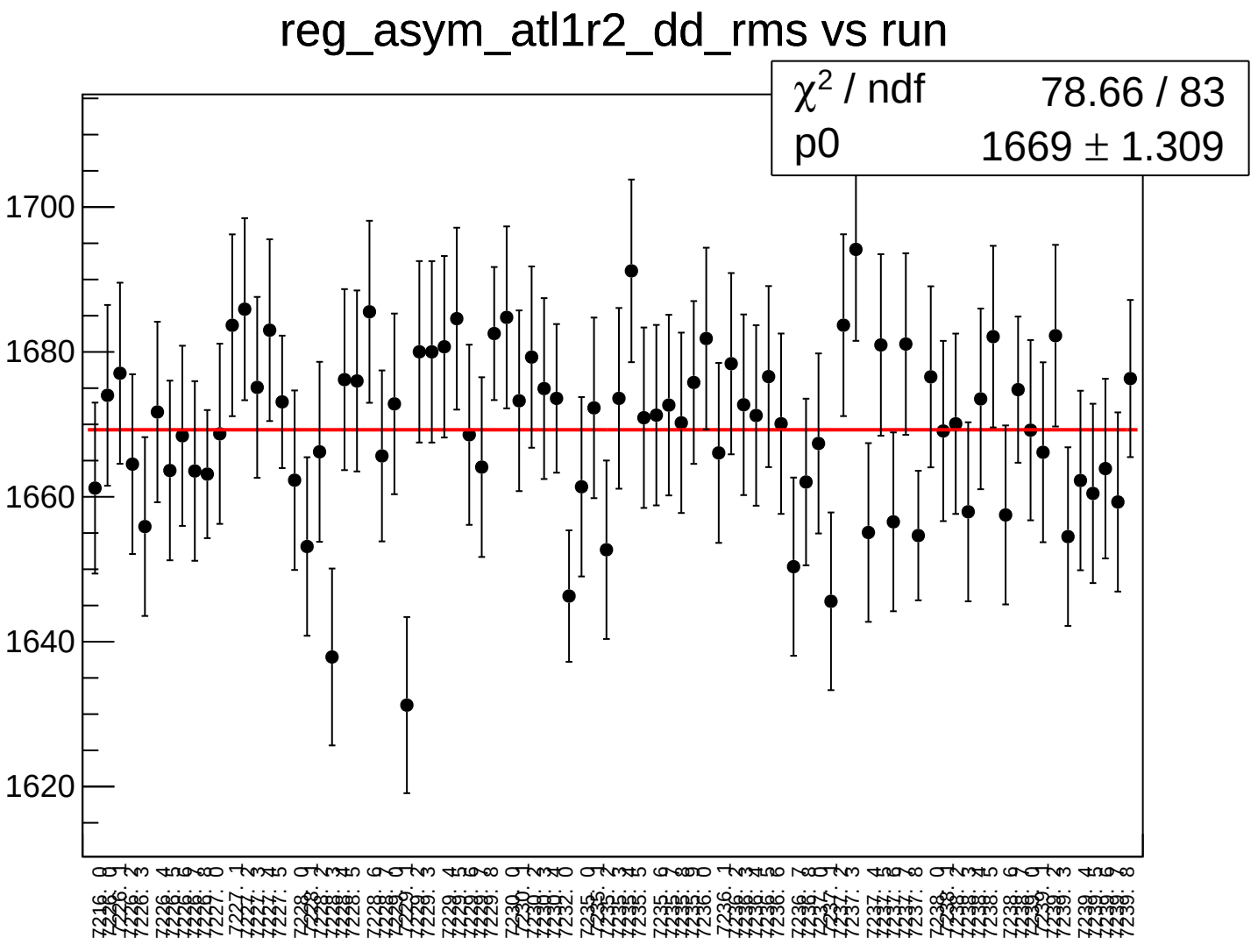

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.61 / 83
p0 8.569e−15 ± 8.519e−14
pull
Entries 84
Mean 123.2
Std Dev 0

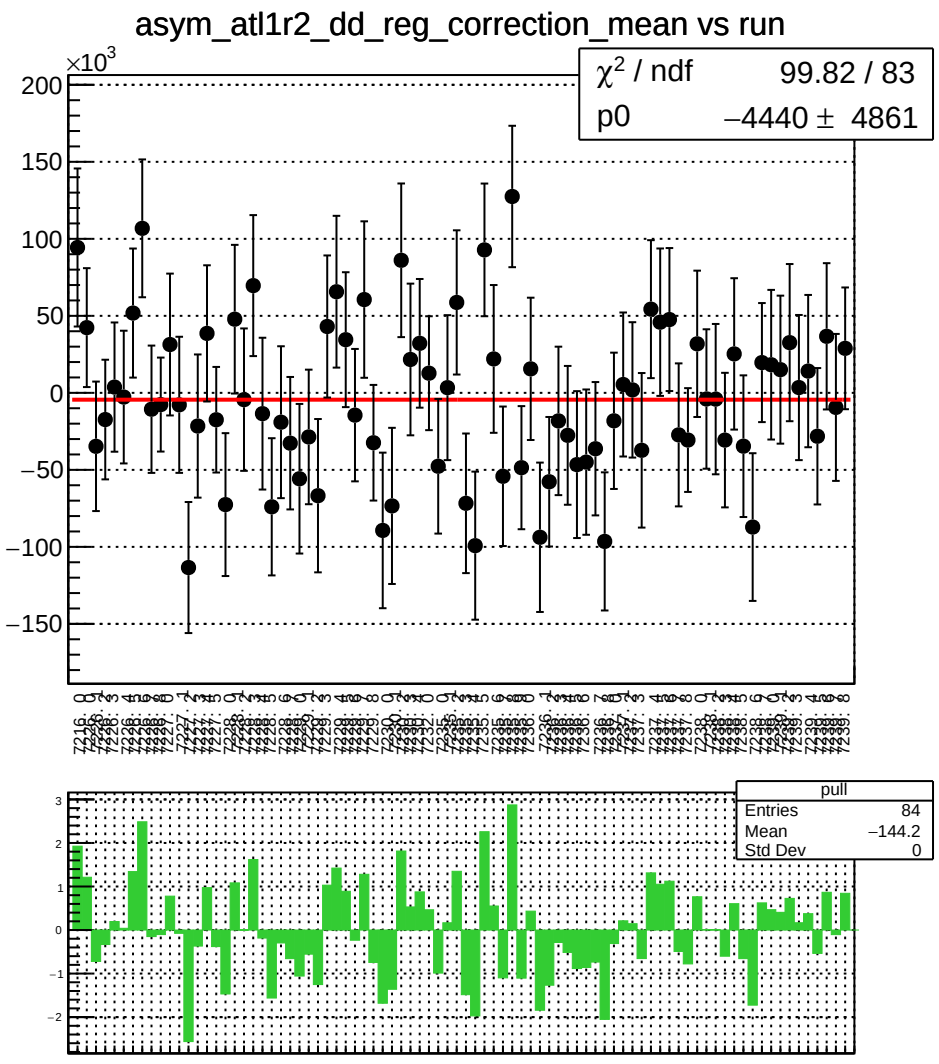

pull1D
Entries 84
Mean 0.03883
Std Dev 1.015

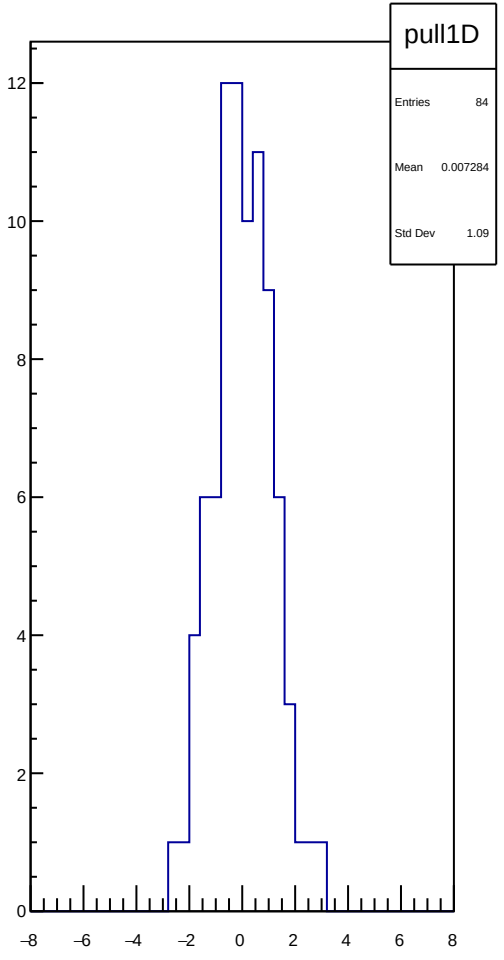

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.037e+05 / 83
p0 5.787e−11 ± 6.024e−14
0.5
0.4
0.3
0.2
0.1

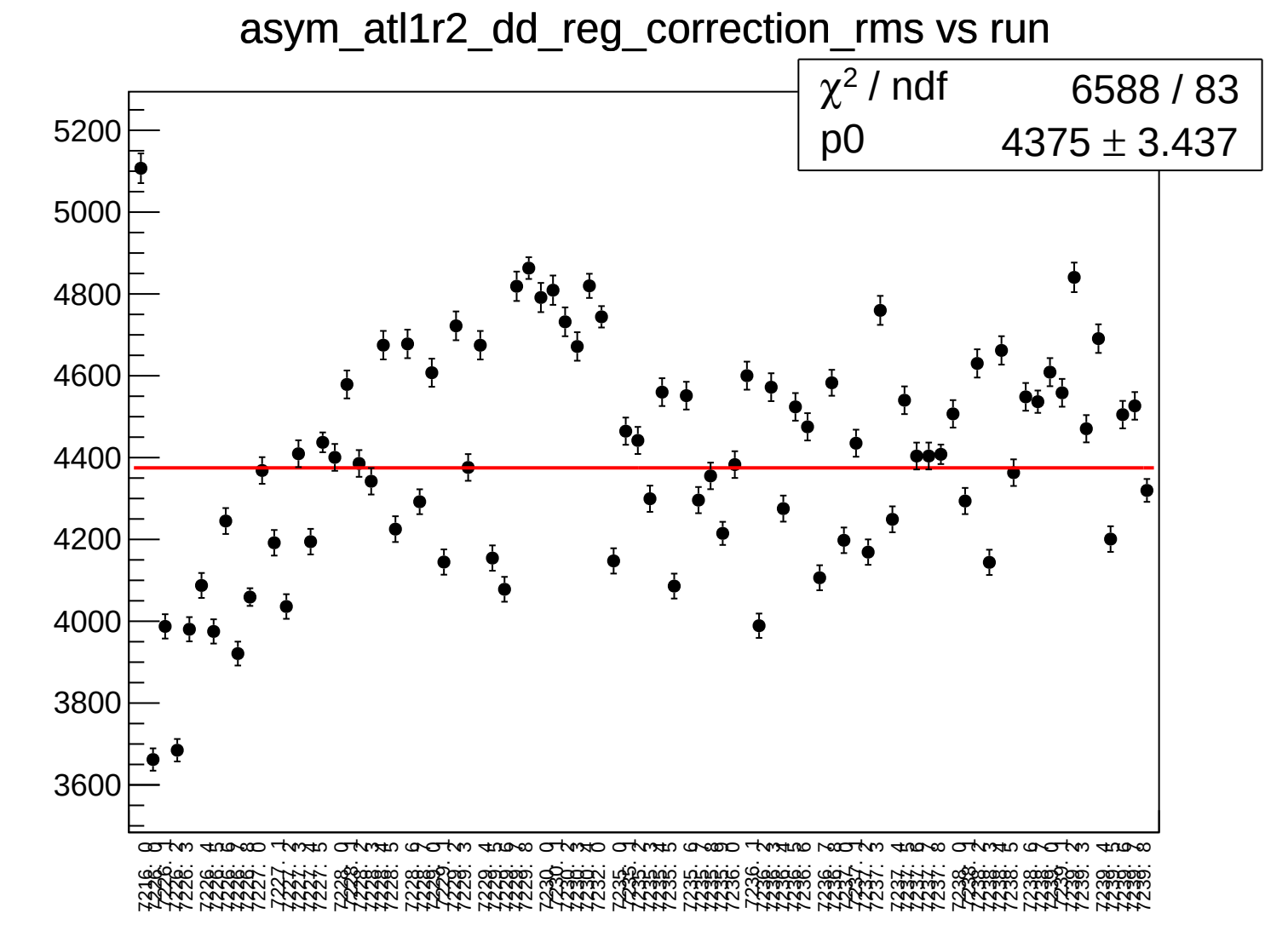

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 96.64 / 83
p0 2292 ± 1851
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 72.38
Std Dev 0
2
1
0
−1
−2

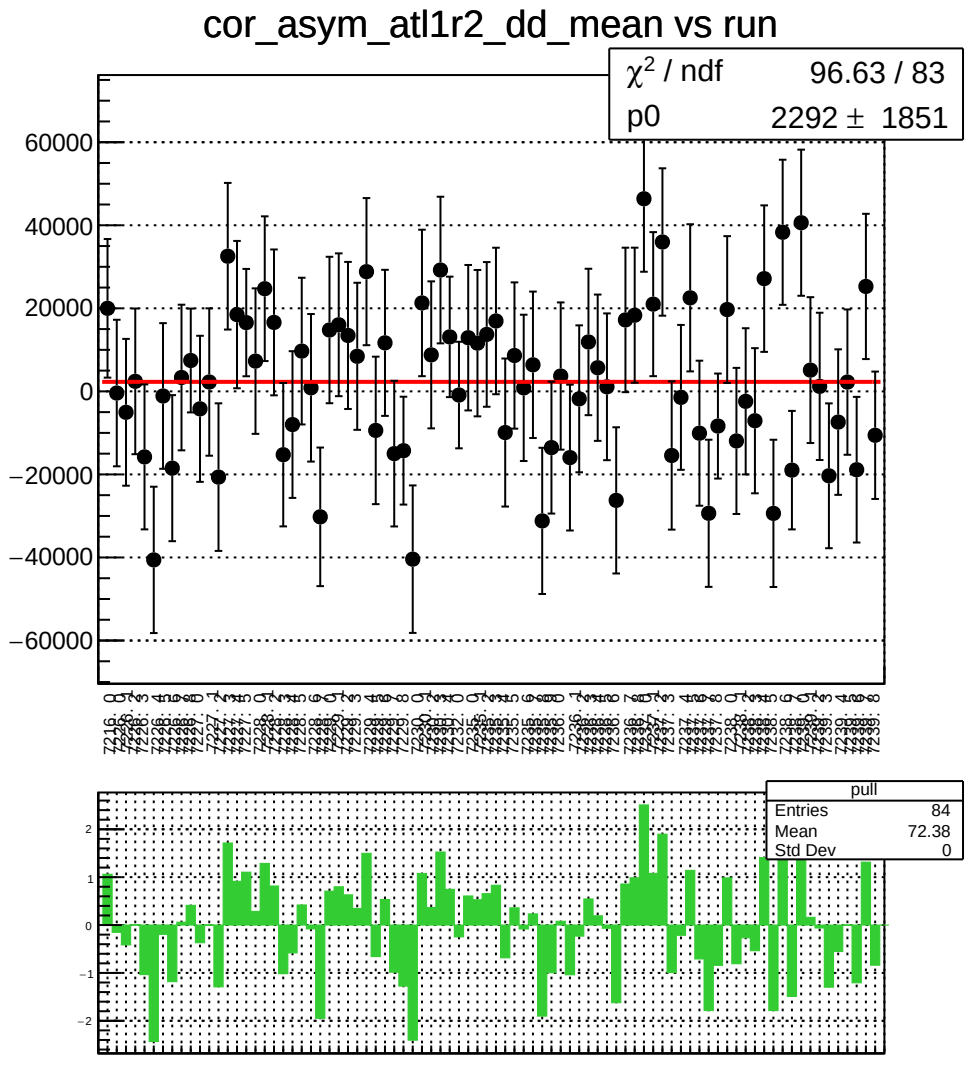

pull1D
Entries 84
Mean 0.007608
Std Dev 1.073
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

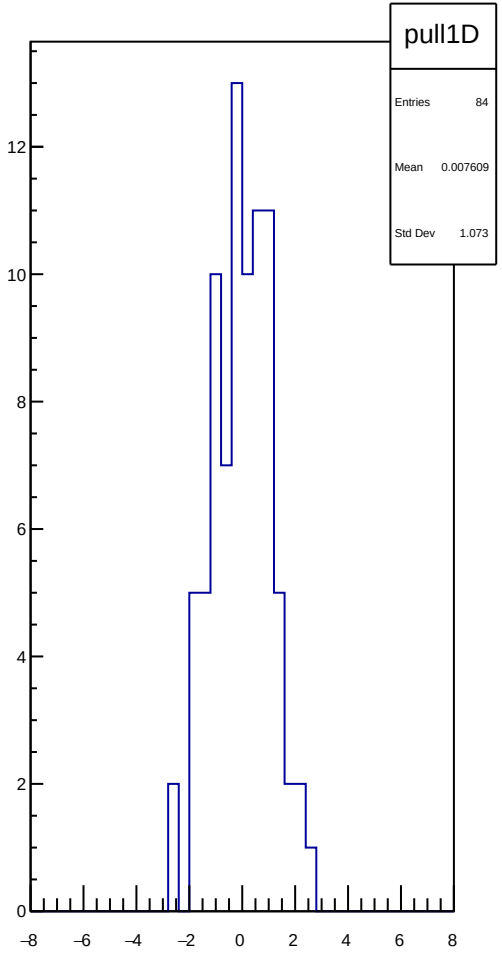

reg_asym_atl1r2_dd_rms vs run
χ^2 / ndf 78.66 / 83
p0 1669 ± 1.309
1700
1680
1660
1640
1620

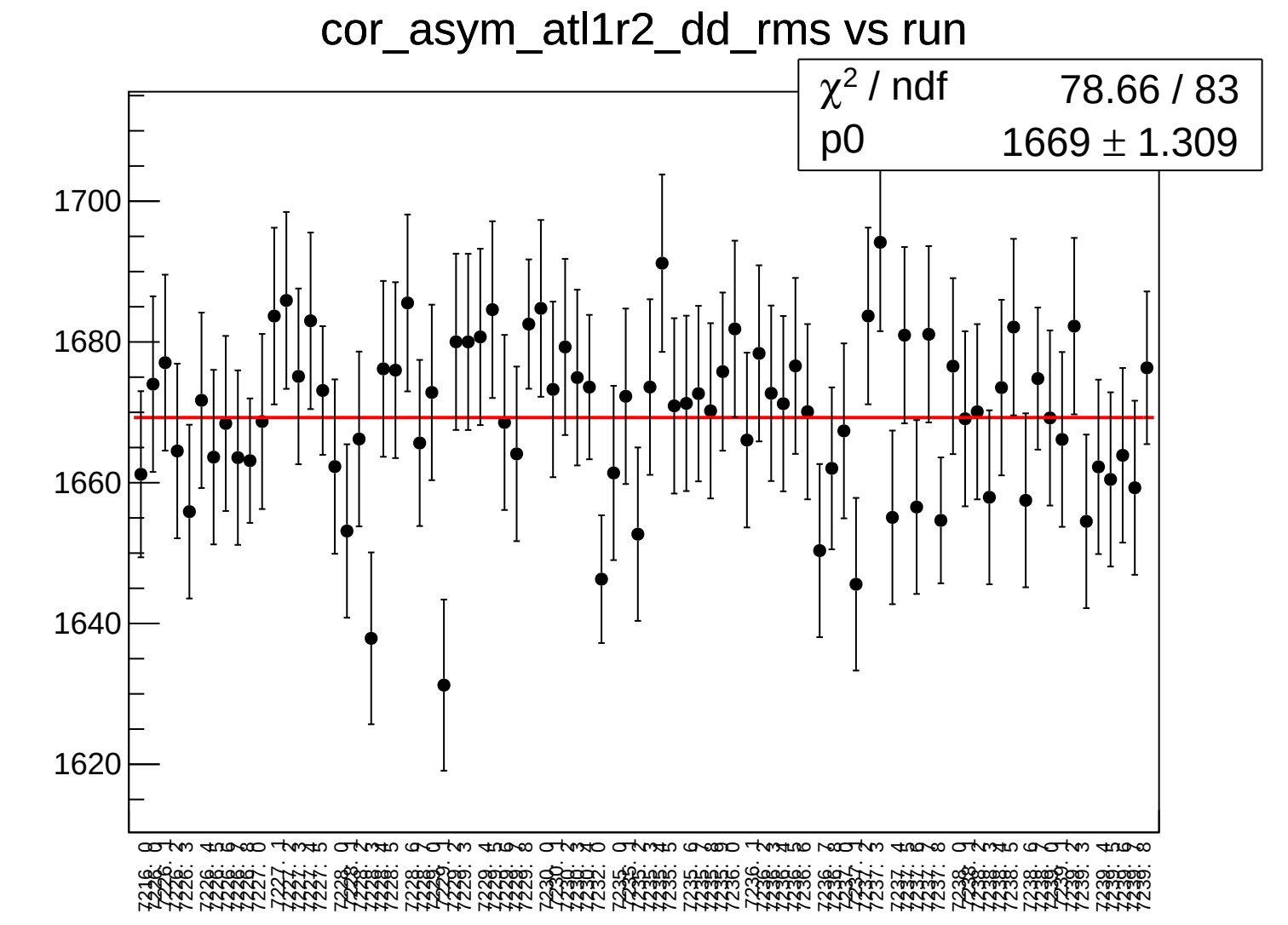

asym_atl1r2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 99.82 / 83
p0 −4440 ± 4861
pull
Entries 84
Mean −144.2
Std Dev 0

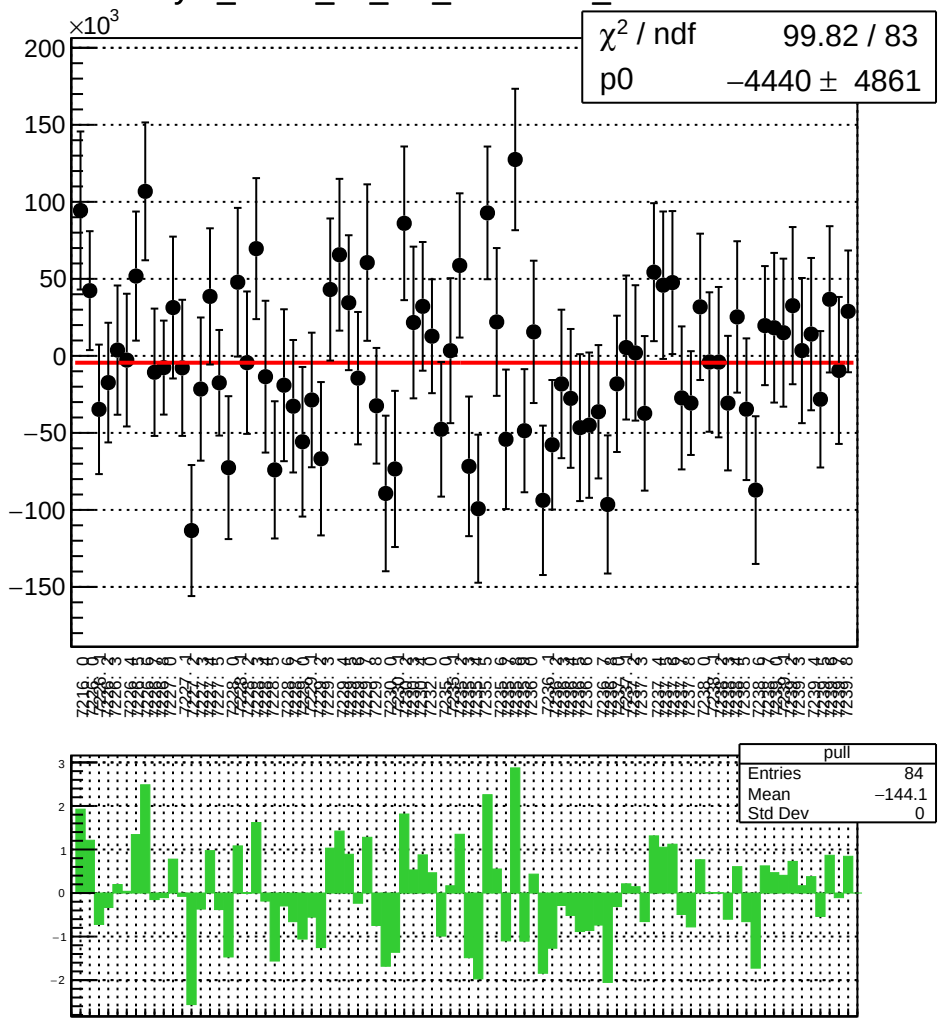

pull1D
Entries 84
Mean 0.007284
Std Dev 1.09

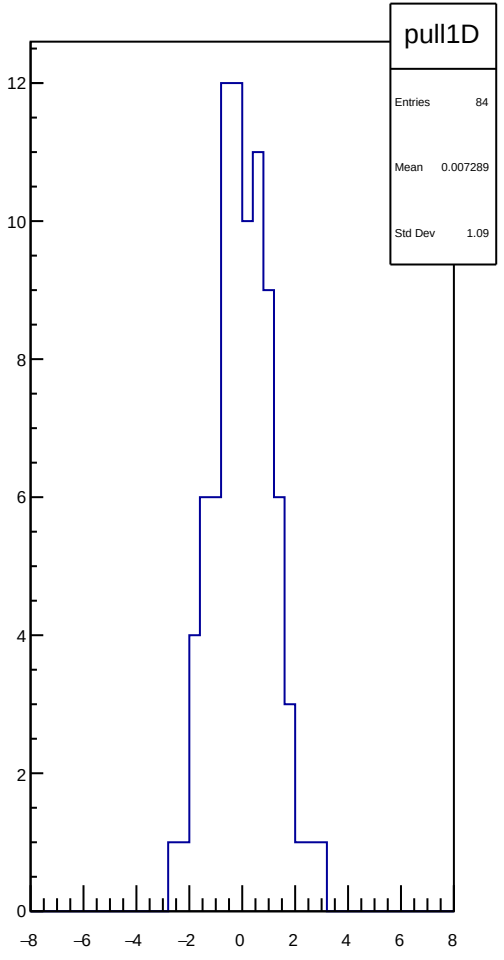

asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 6588 / 83
p0 4375 ± 3.437
5200
5000
4800
4600
4400
4200
4000
3800
3600

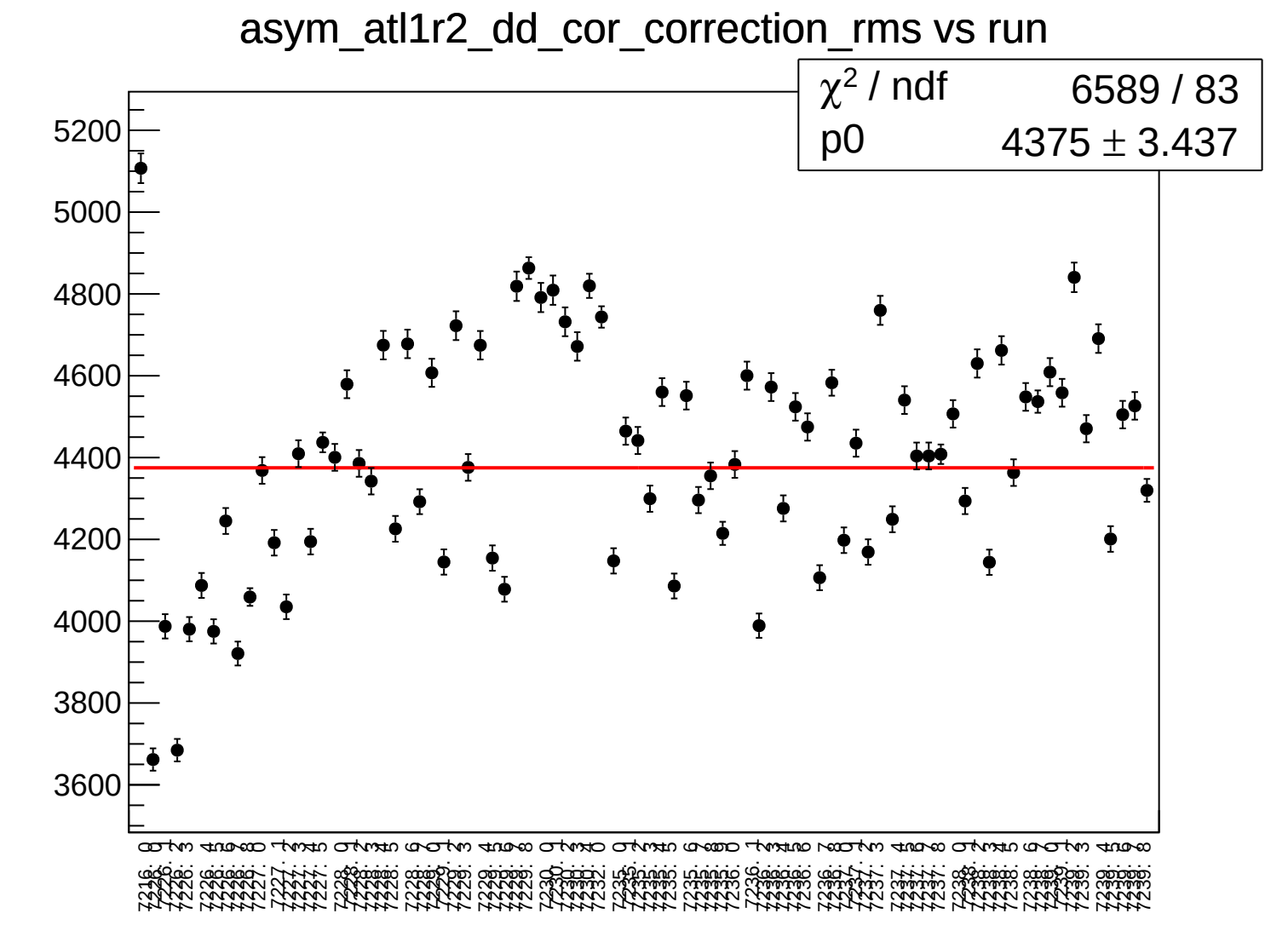

cor_asym_atl1r2_dd_mean vs run
χ² / ndf 96.63 / 83
p0 2292 ± 1851
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 72.38
Std Dev 0
2
1
0
−1
−2

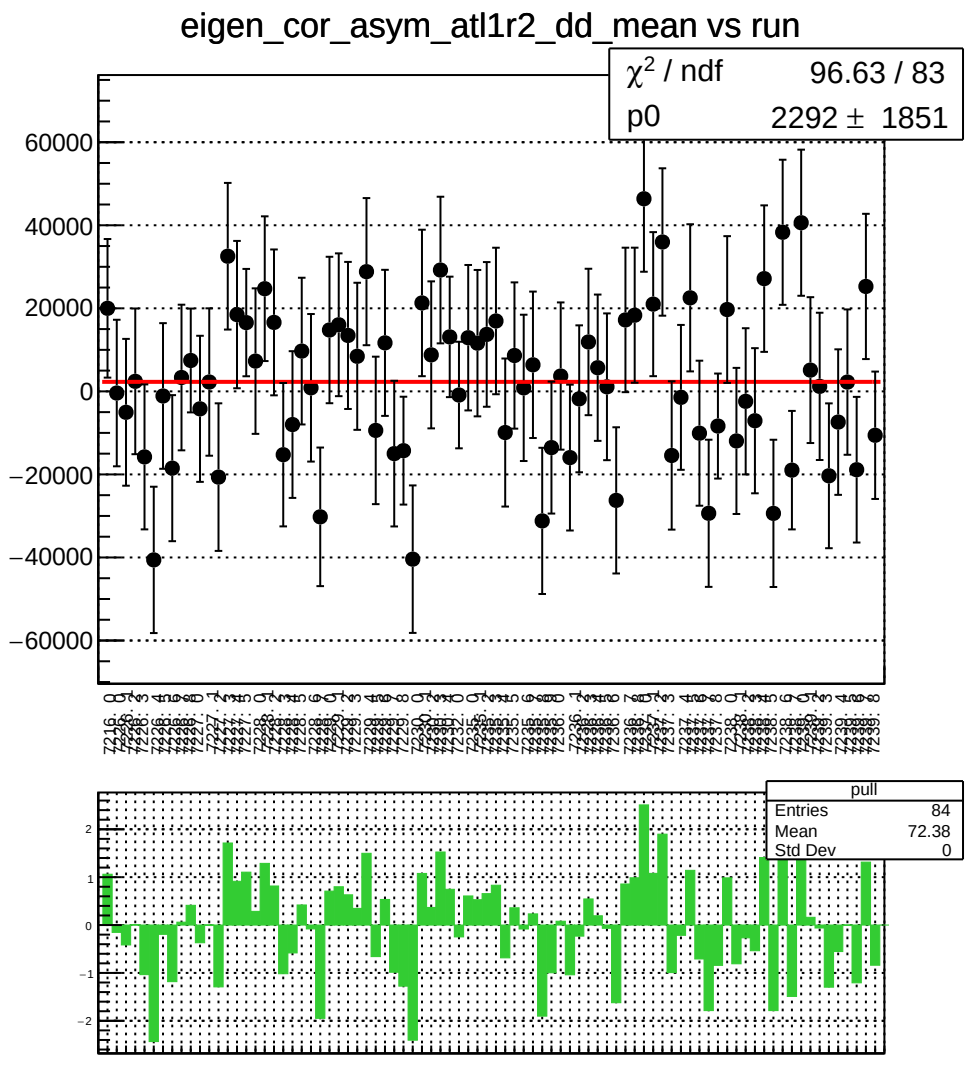

pull1D
Entries 84
Mean 0.007609
Std Dev 1.073
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

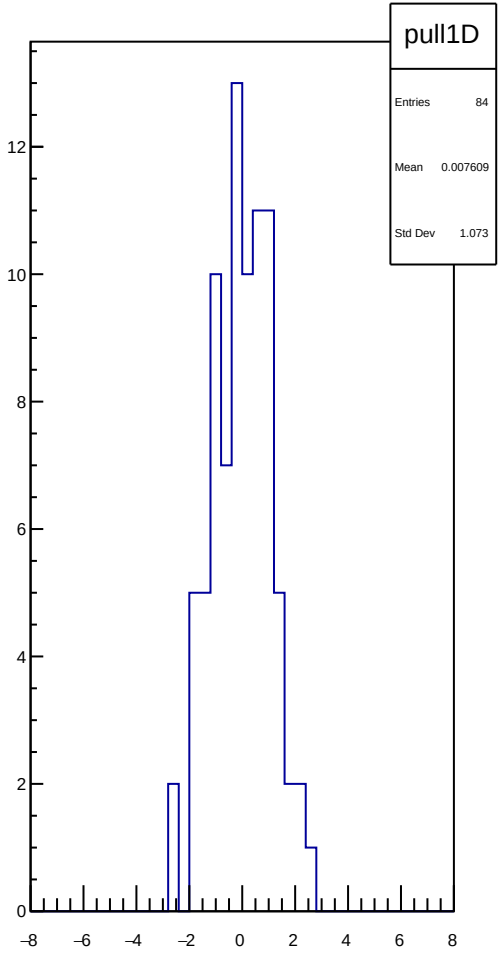

cor_asym_atl1r2_dd_rms vs run
χ^2 / ndf 78.66 / 83
p0 1669 ± 1.309
1700
1680
1660
1640
1620

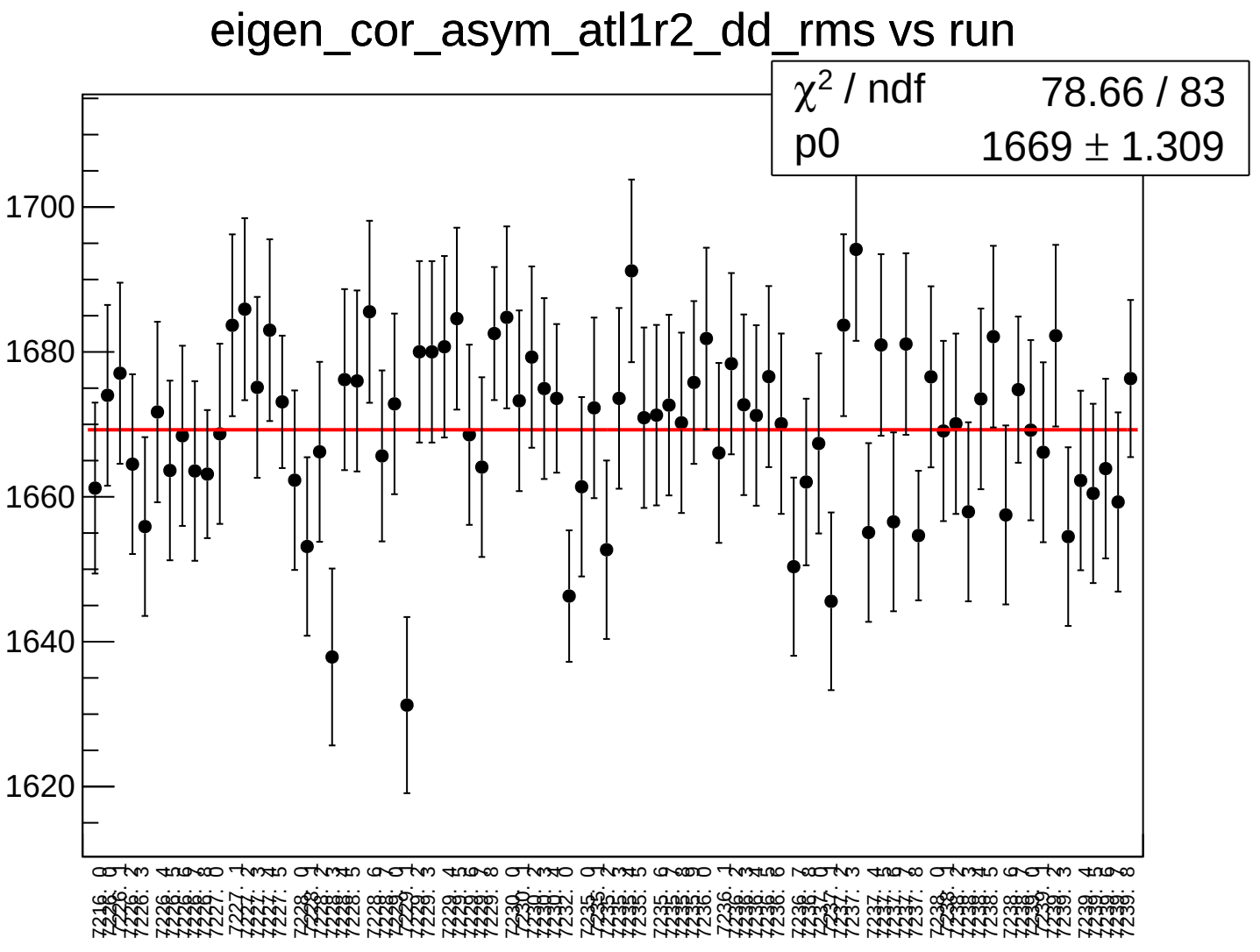

asym_atl1r2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 99.82 / 83
p0 −4440 ± 4861
pull
Entries 84
Mean −144.1
Std Dev 0

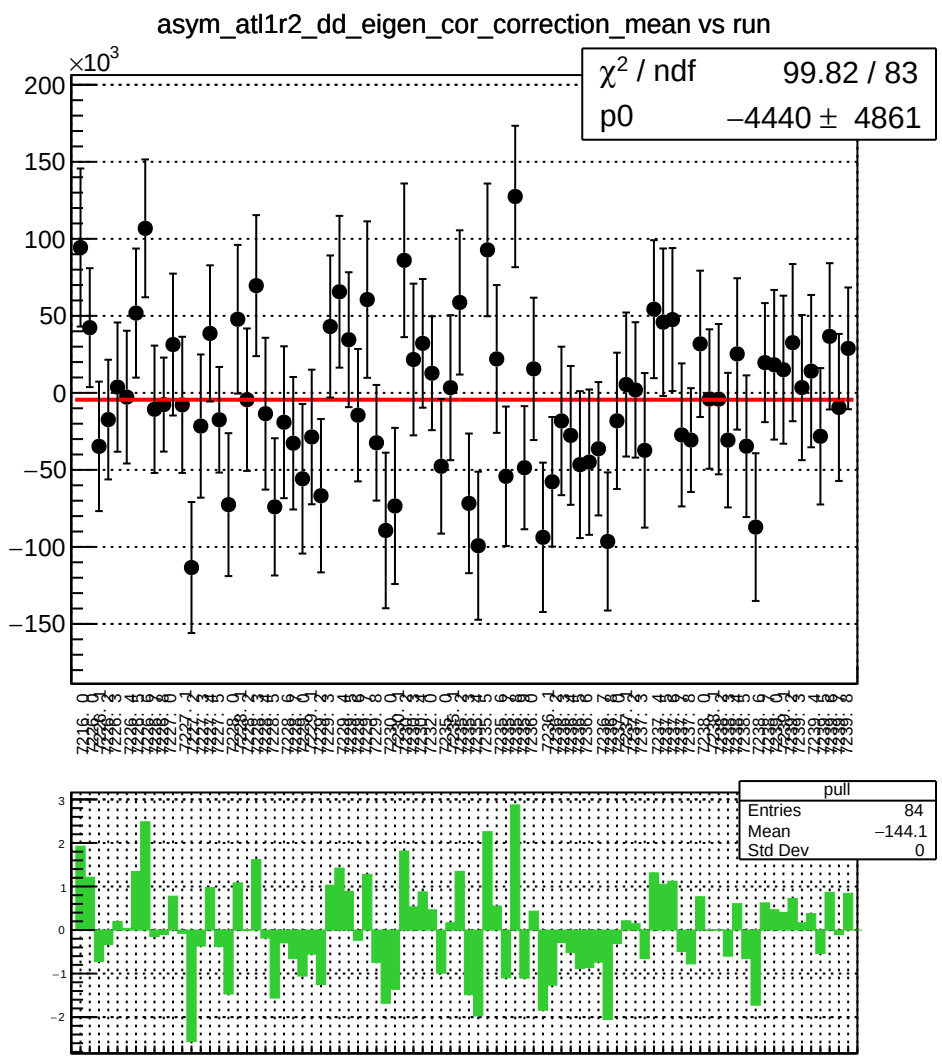

pull1D
Entries 84
Mean 0.007289
Std Dev 1.09

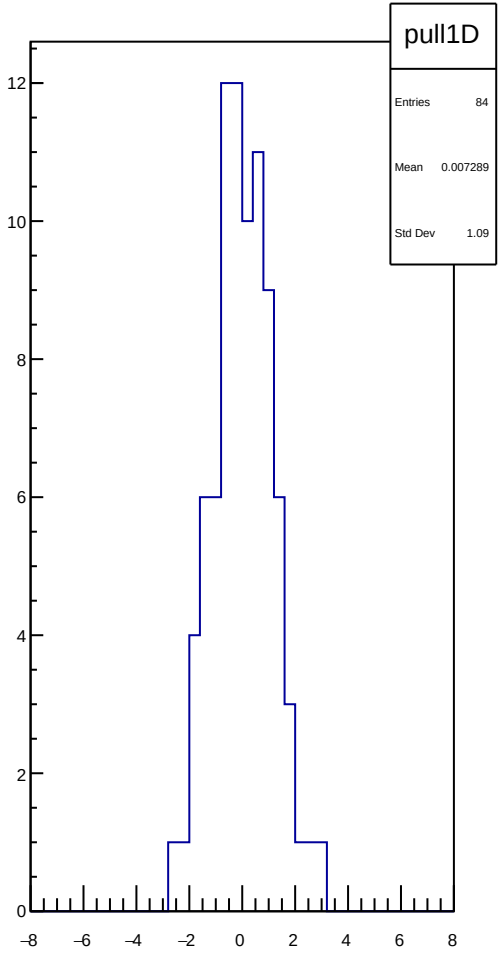

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 6589 / 83
p0 4375 ± 3.437
5200
5000
4800
4600
4400
4200
4000
3800
3600

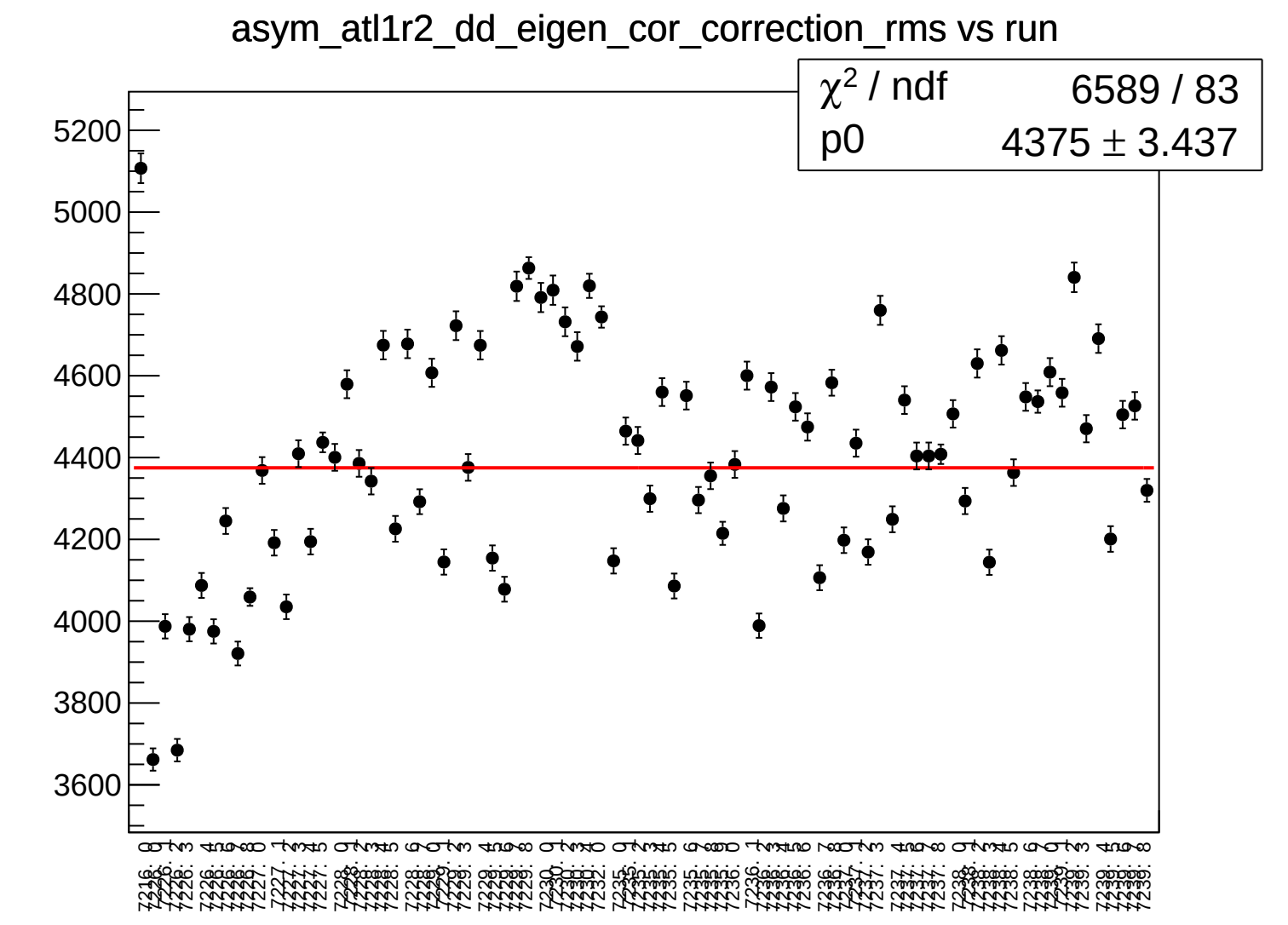

eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 96.63 / 83
p0 2292 ± 1851
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 72.38
Std Dev 0
2
1
0
−1
−2

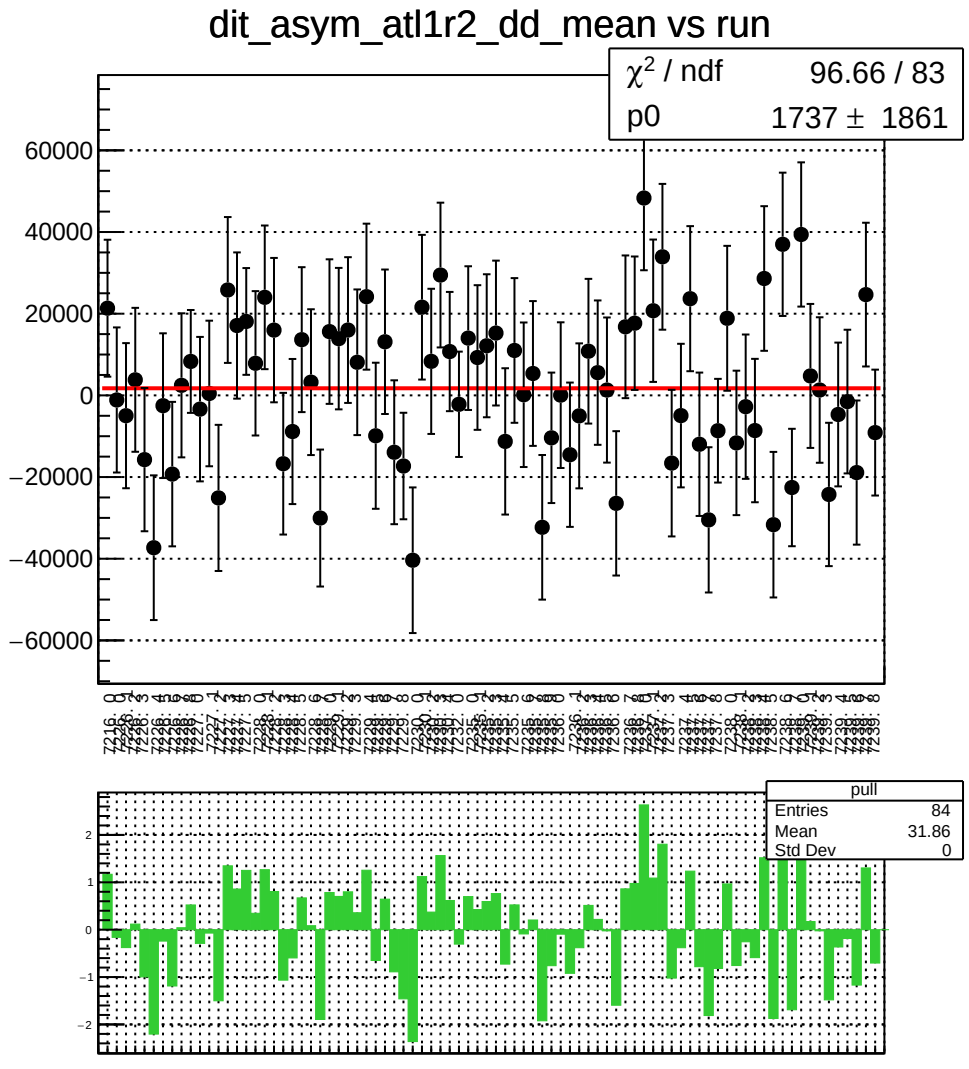

pull1D
Entries 84
Mean 0.007609
Std Dev 1.073
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

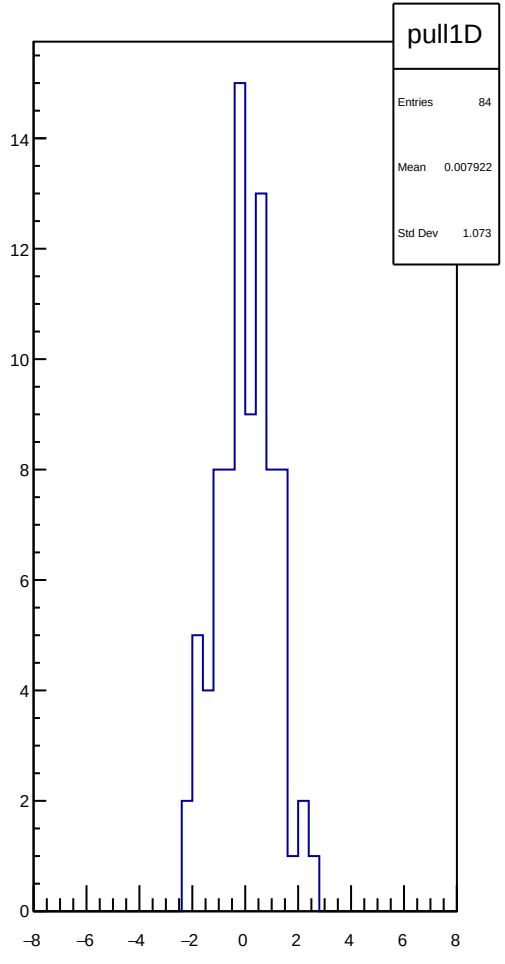

eigen_cor_asym_atl1r2_dd_rms vs run
χ^2 / ndf 78.66 / 83
p0 1669 ± 1.309
1700
1680
1660
1640
1620

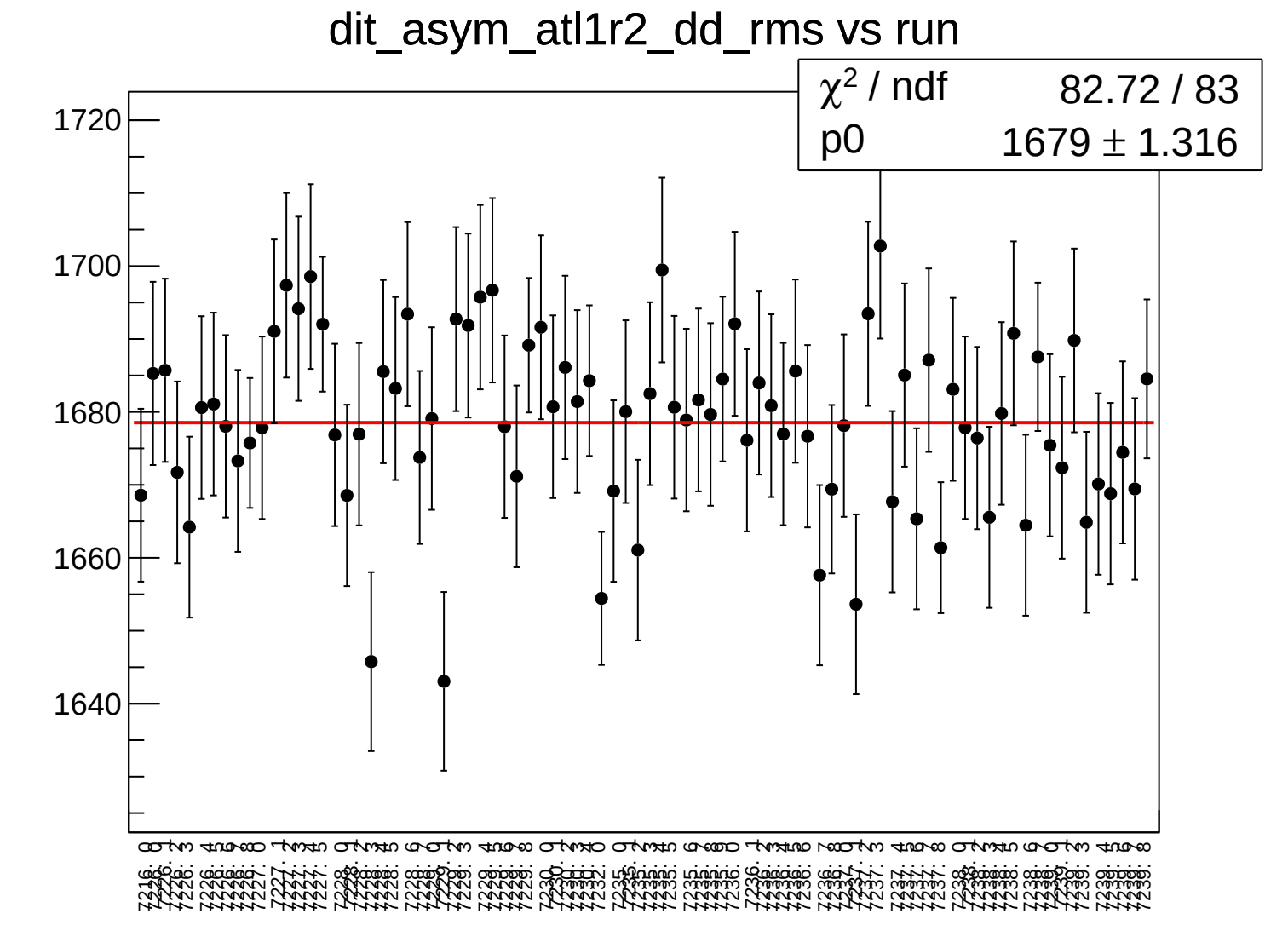

asym_atl1r2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 99.82 / 83
p0 −4440 ± 4861
200
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −144.1
Std Dev 0
3
2
1
0
−1
−2

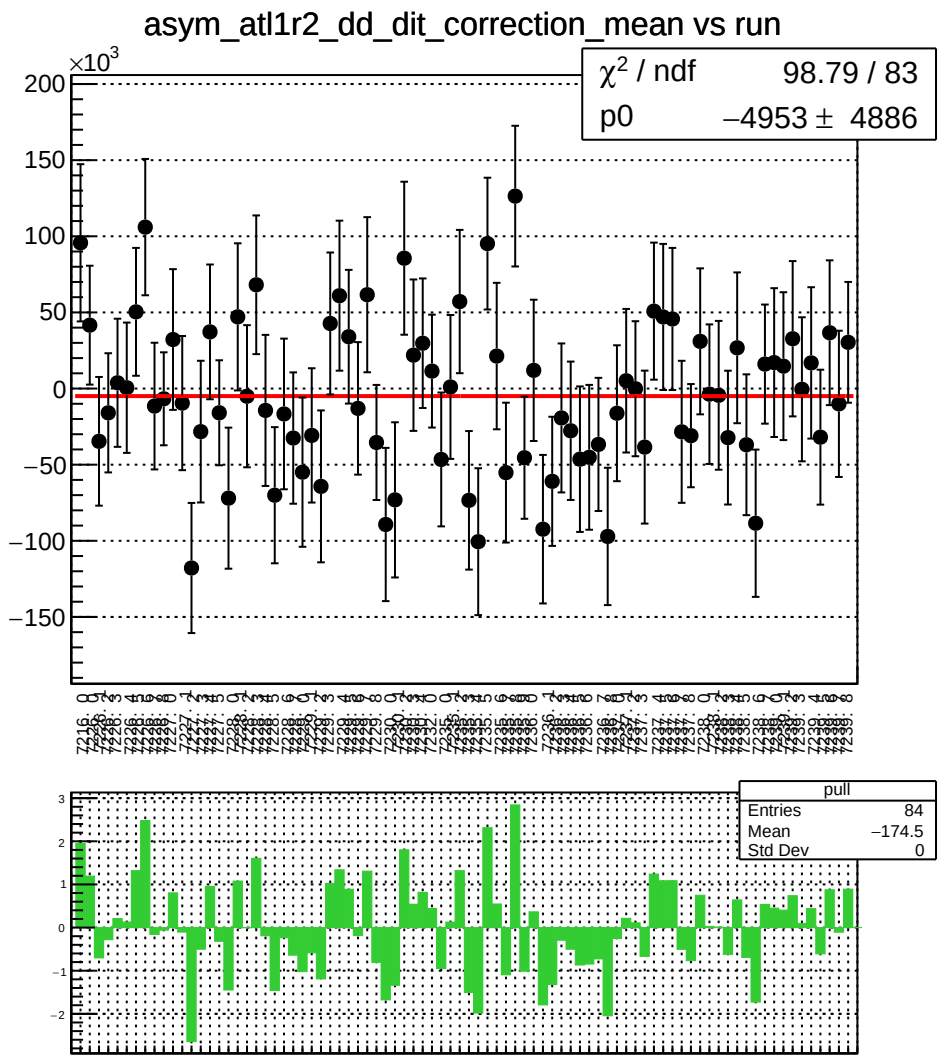

pull1D
Entries 84
Mean 0.007289
Std Dev 1.09
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

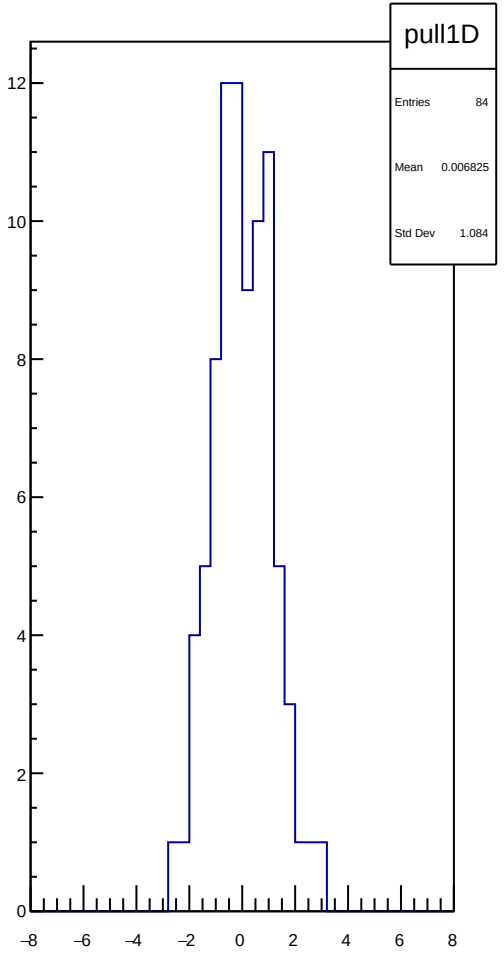

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 6589 / 83
p0 4375 ± 3.437
5200
5000
4800
4600
4400
4200
4000
3800
3600

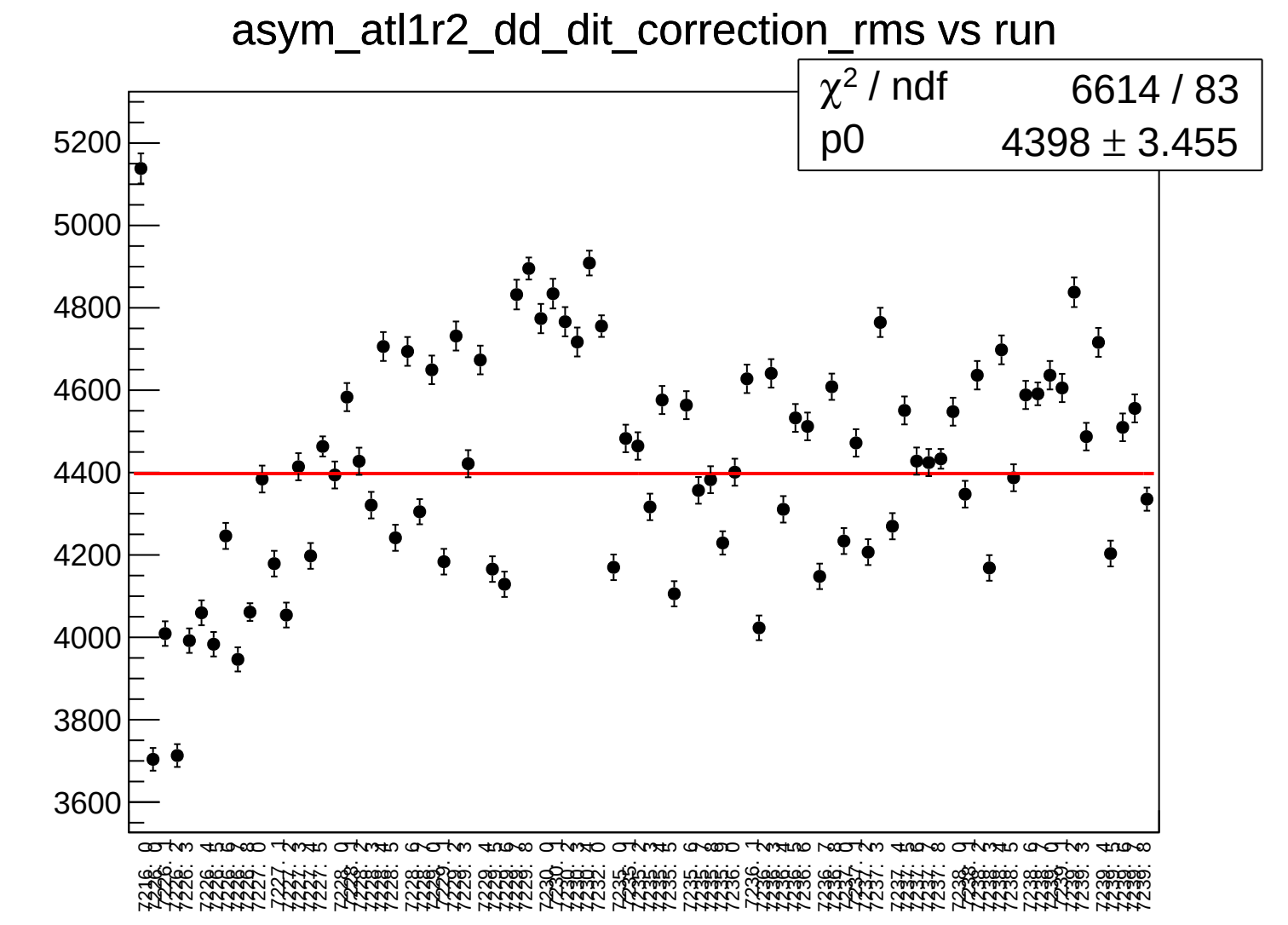

dit_asym_atl1r2_dd_mean vs run
χ² / ndf 96.66 / 83
p0 1737 ± 1861
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 31.86
Std Dev 0
2
1
0
−1
−2

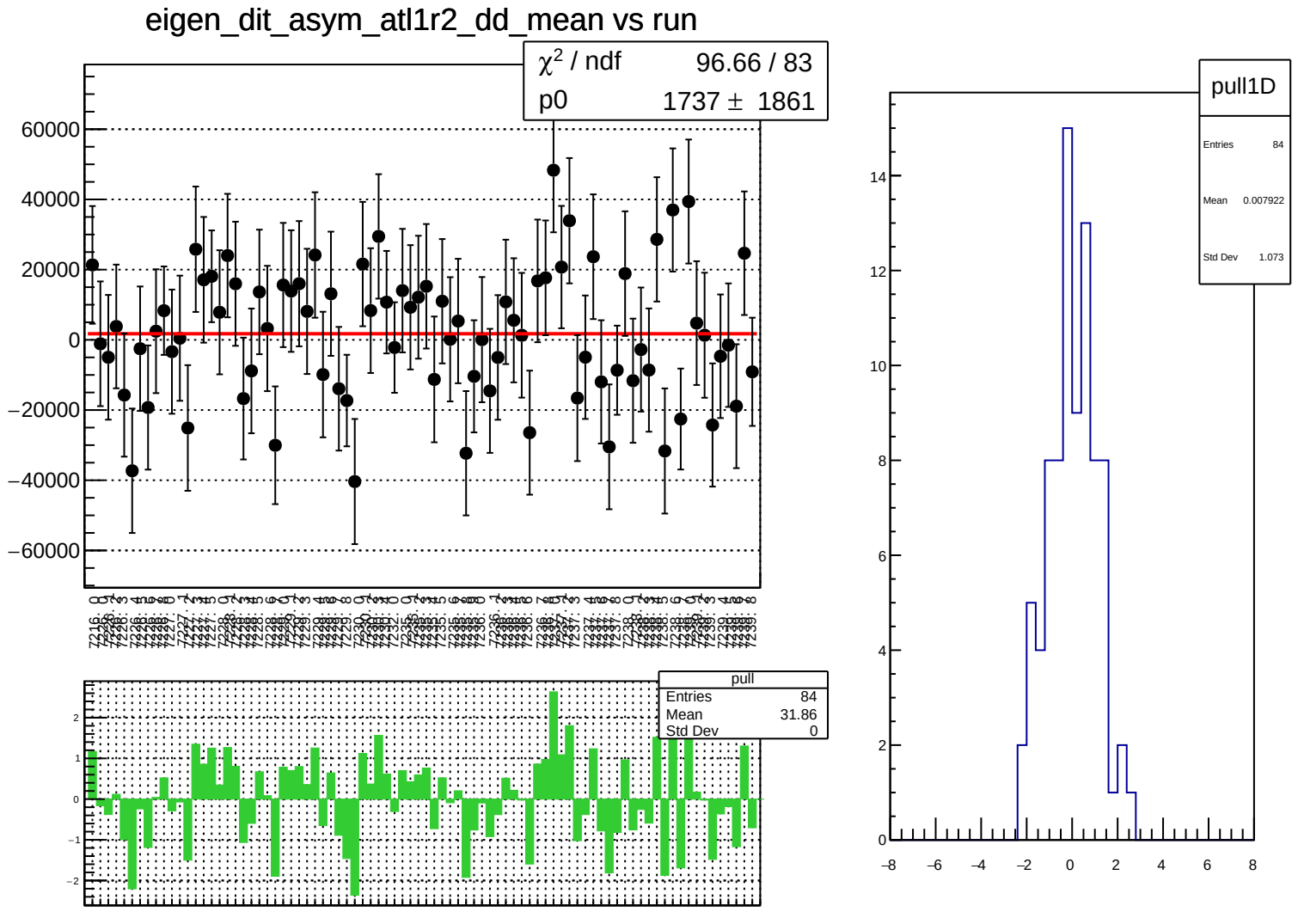

pull1D
Entries 84
Mean 0.007922
Std Dev 1.073
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

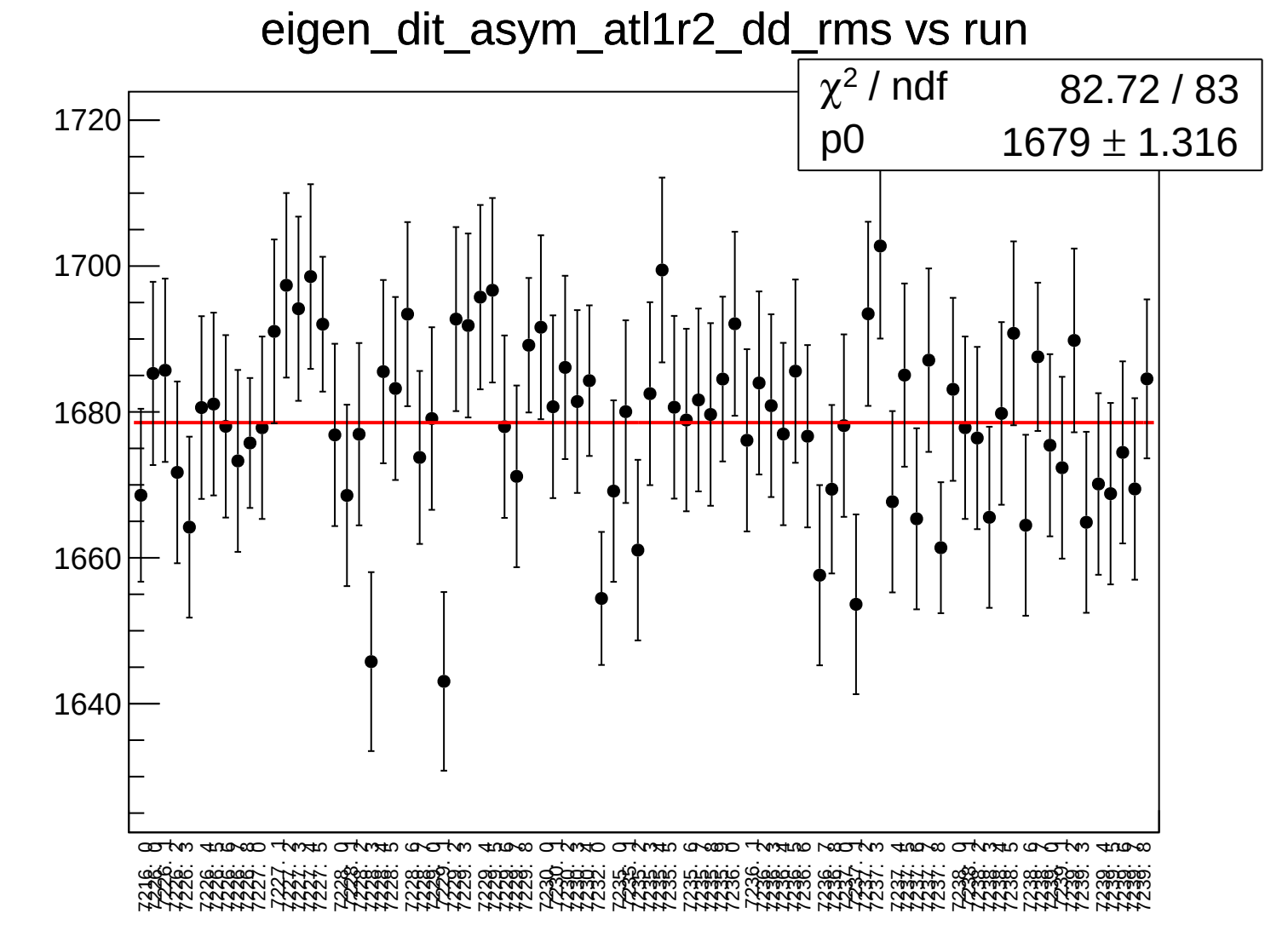

dit_asym_atl1r2_dd_rms vs run
χ^2 / ndf 82.72 / 83
p0 1679 ± 1.316
1720
1700
1680
1660
1640

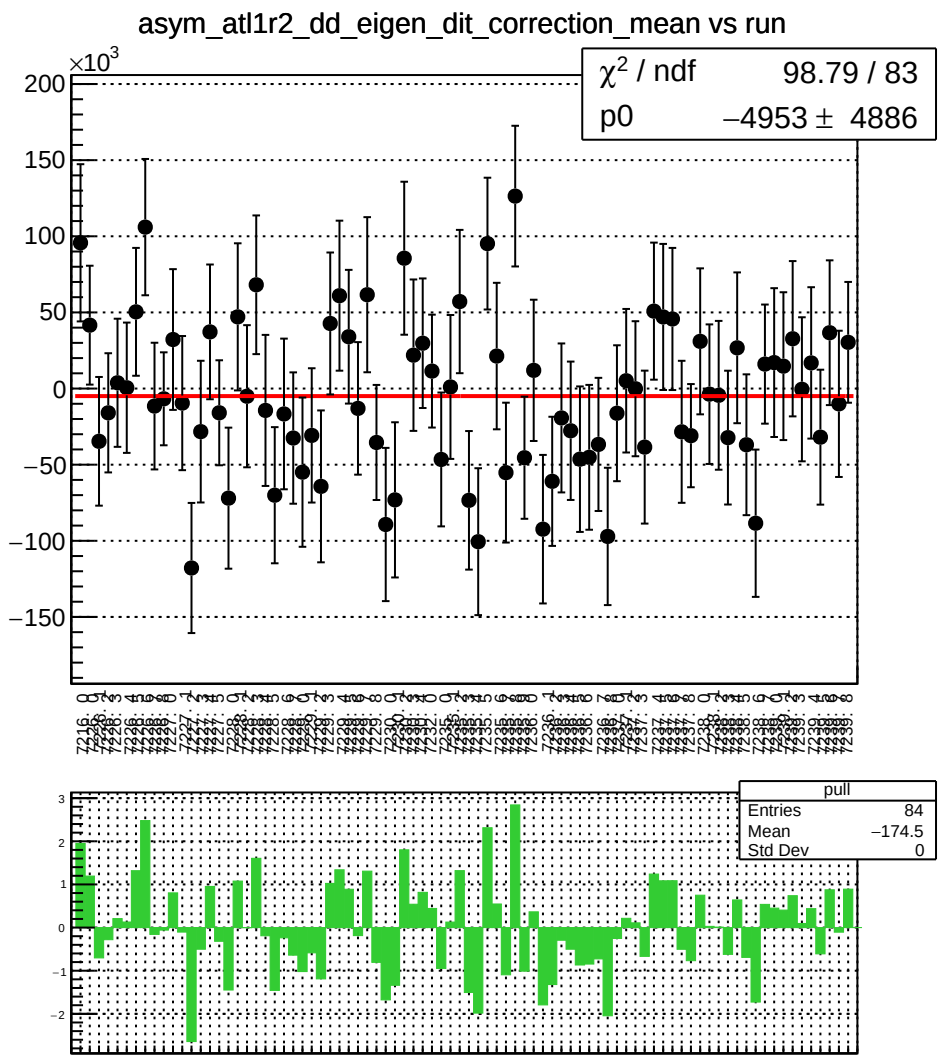

asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 98.79 / 83
p0 −4953 ± 4886
pull
Entries 84
Mean −174.5
Std Dev 0

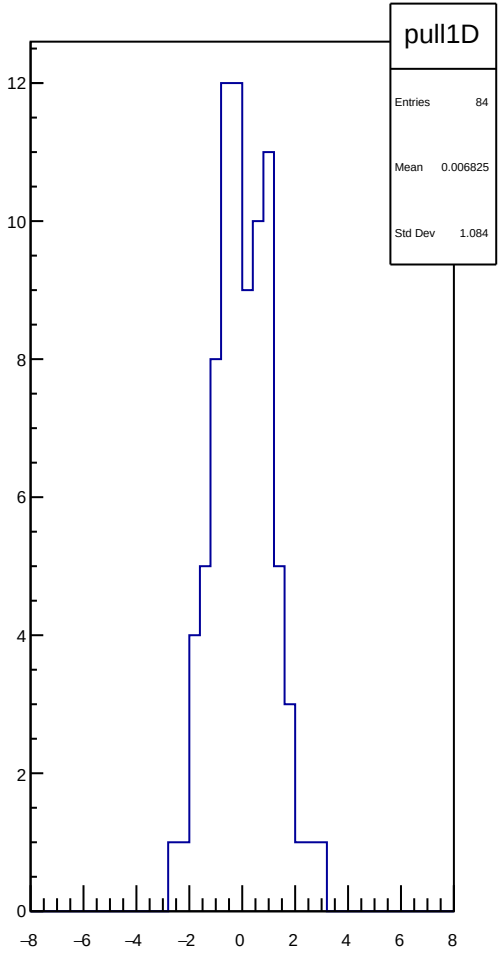

pull1D
Entries 84
Mean 0.006825
Std Dev 1.084

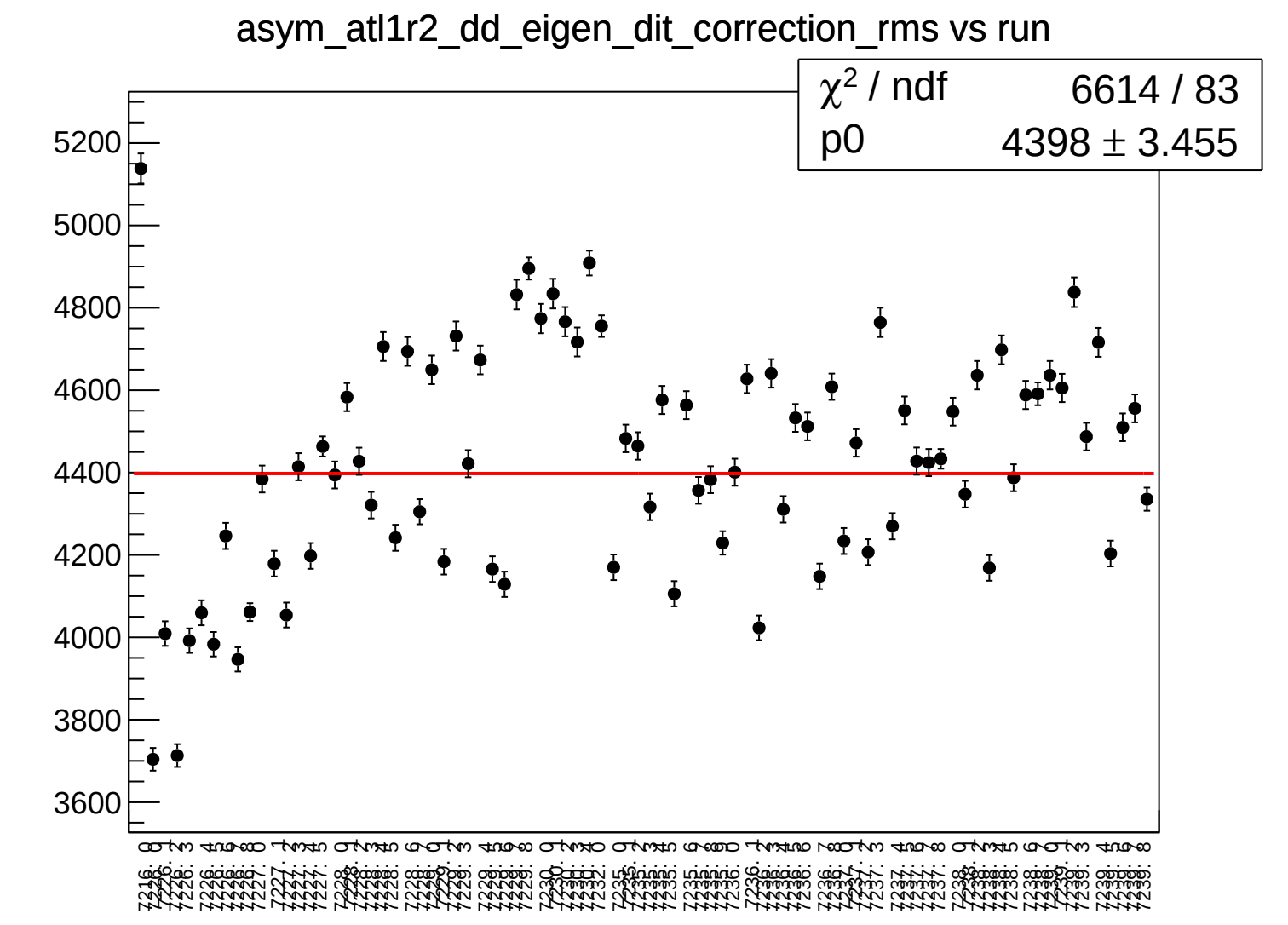

asym_atl1r2_dd_dit_correction_rms vs run
χ^2 / ndf 6614 / 83
p0 4398 ± 3.455
5200
5000
4800
4600
4400
4200
4000
3800
3600

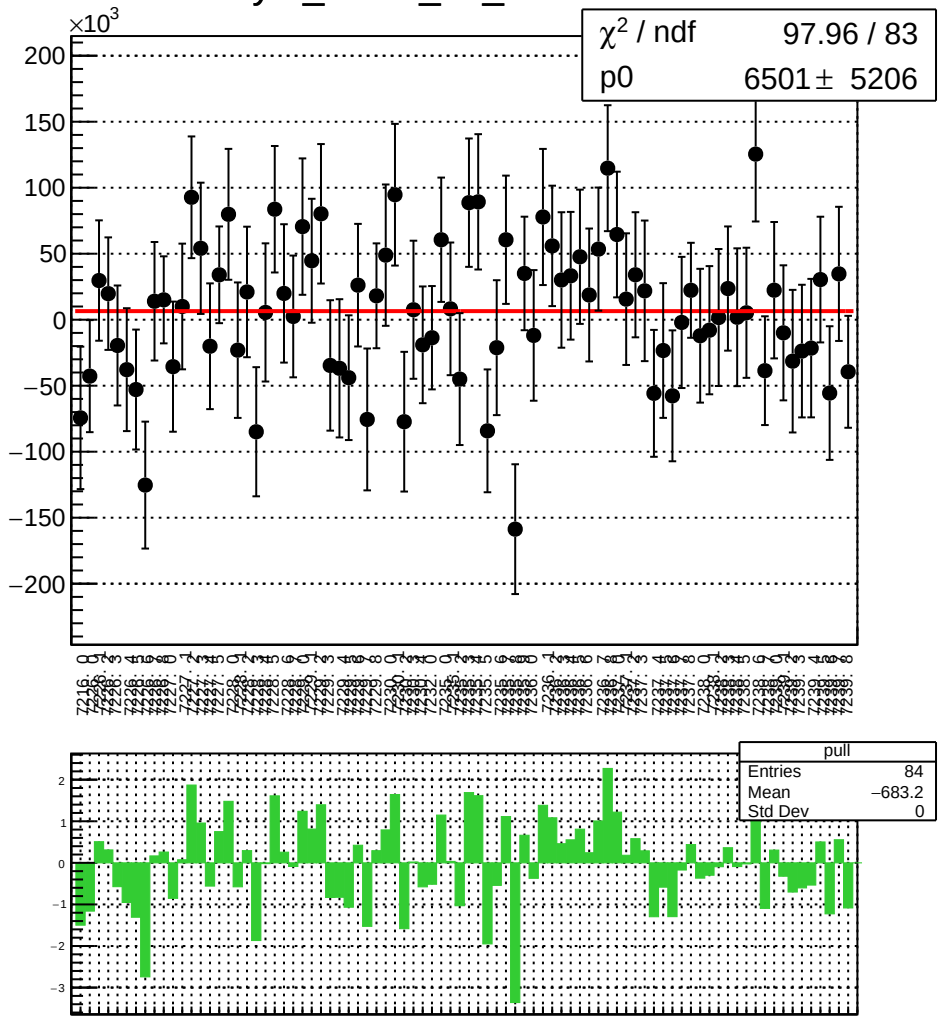

eigen_dit_asym_atl1r2_dd_mean vs run
χ² / ndf 96.66 / 83
p0 1737 ± 1861
pull
Entries 84
Mean 31.86
Std Dev 0
pull1D
Entries 84
Mean 0.007922
Std Dev 1.073

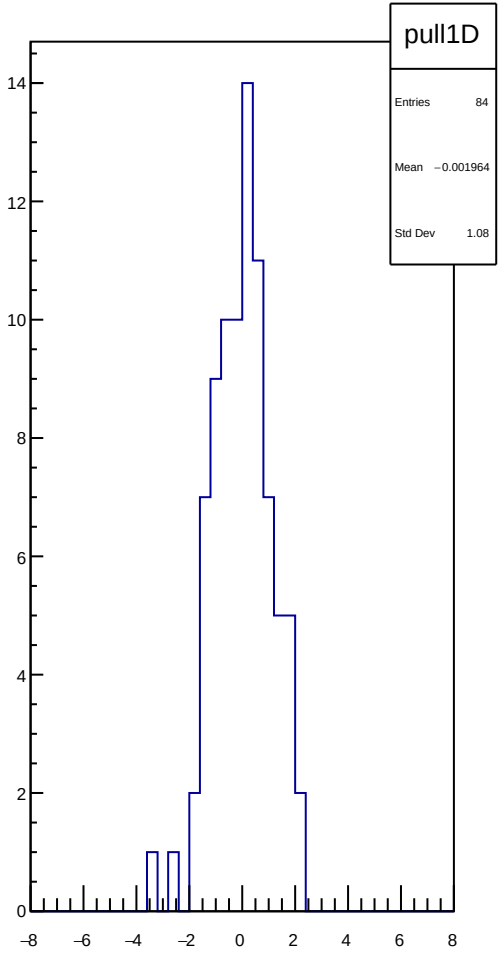

eigen_dit_asym_atl1r2_dd_rms vs run
χ^2 / ndf 82.72 / 83
p0 1679 ± 1.316
1720
1700
1680
1660
1640

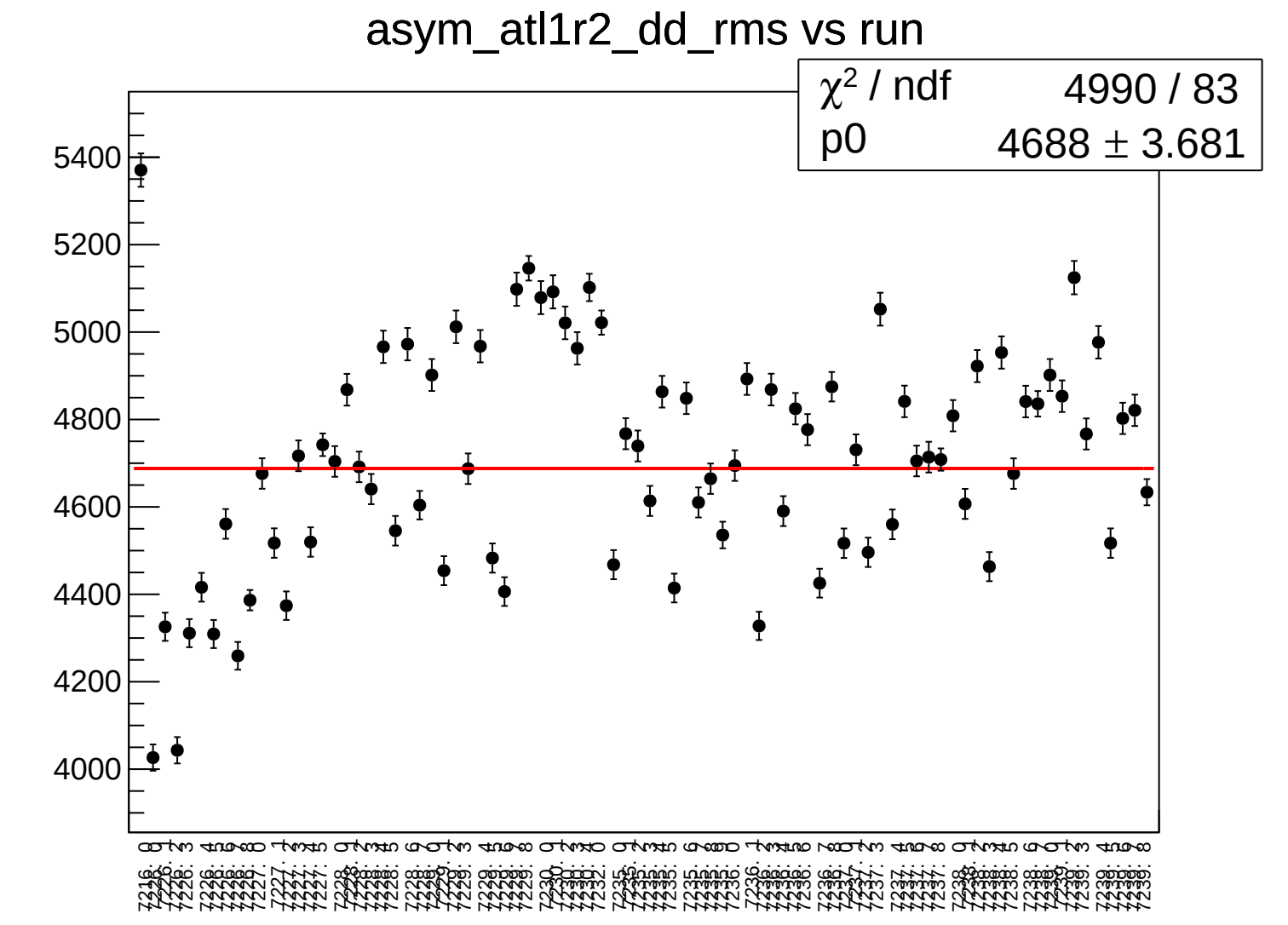

asym_atl1r2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 98.79 / 83
p0 −4953 ± 4886
pull
Entries 84
Mean −174.5
Std Dev 0

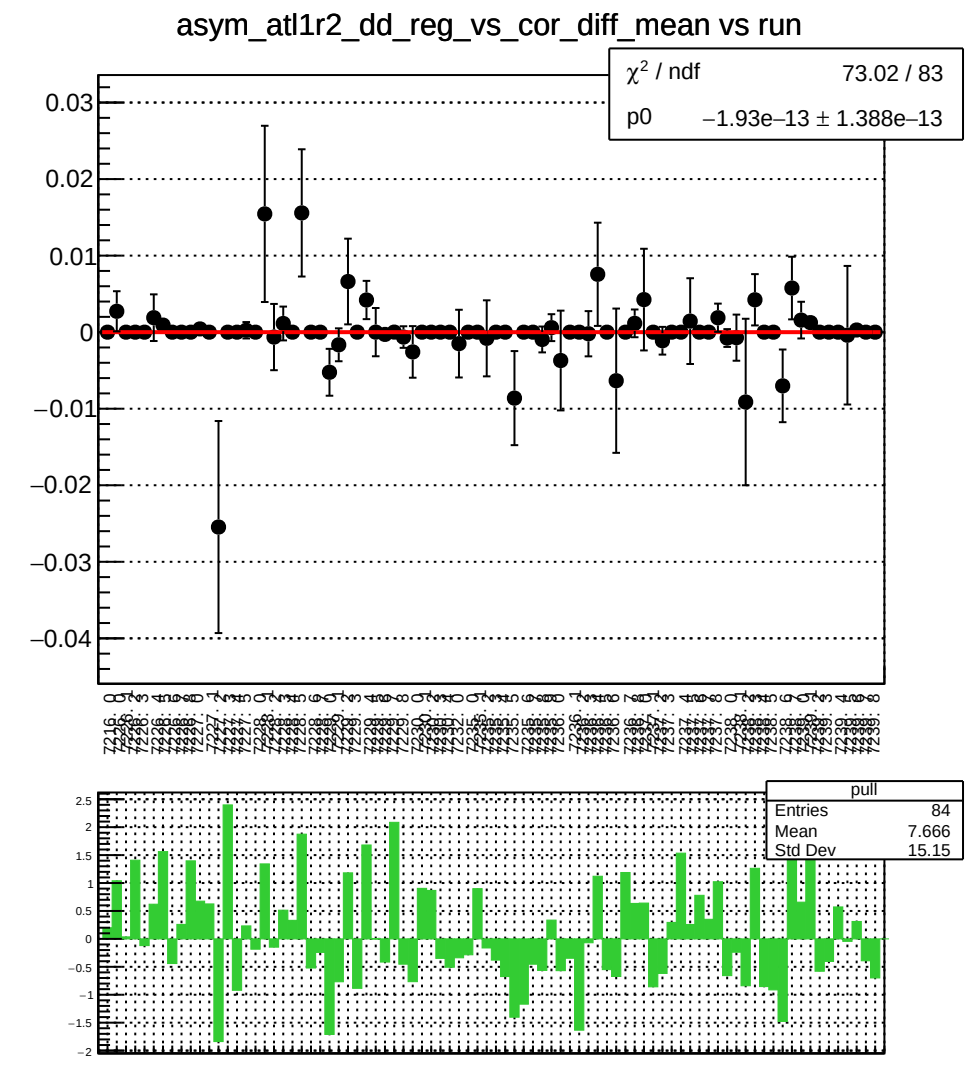

pull1D
Entries 84
Mean 0.006825
Std Dev 1.084

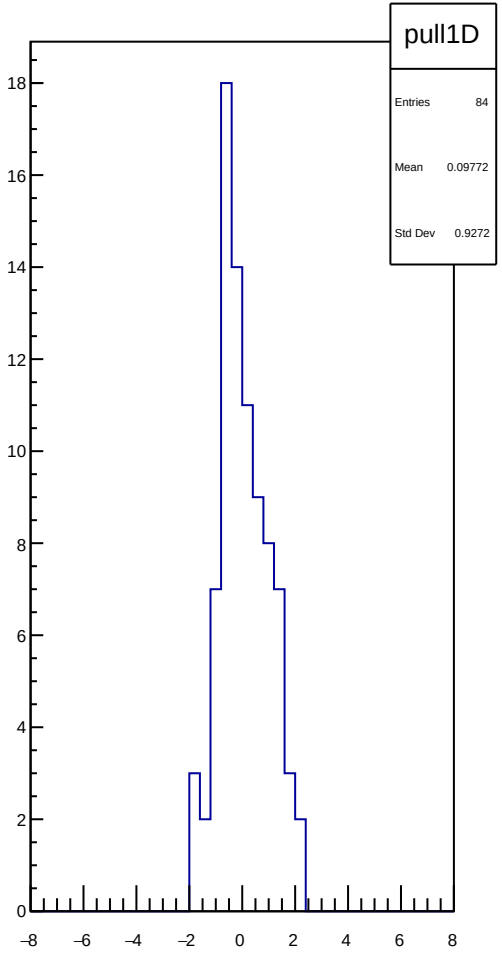

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 6614 / 83
p0 4398 ± 3.455
5200
5000
4800
4600
4400
4200
4000
3800
3600

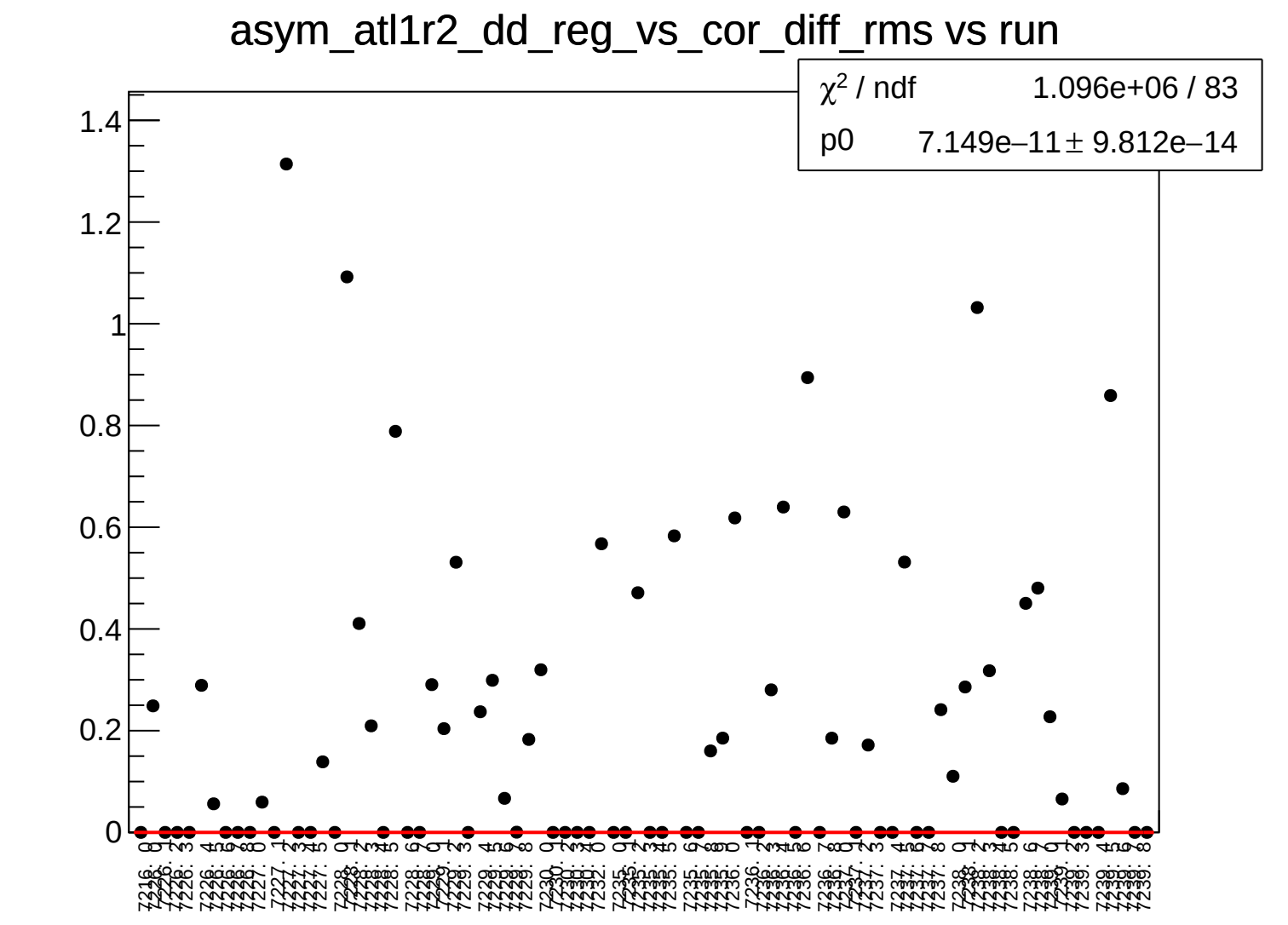

asym_atl1r2_dd_mean vs run
×10^3
χ^2 / ndf 97.96 / 83
p0 6501 ± 5206
pull
Entries 84
Mean −683.2
Std Dev 0

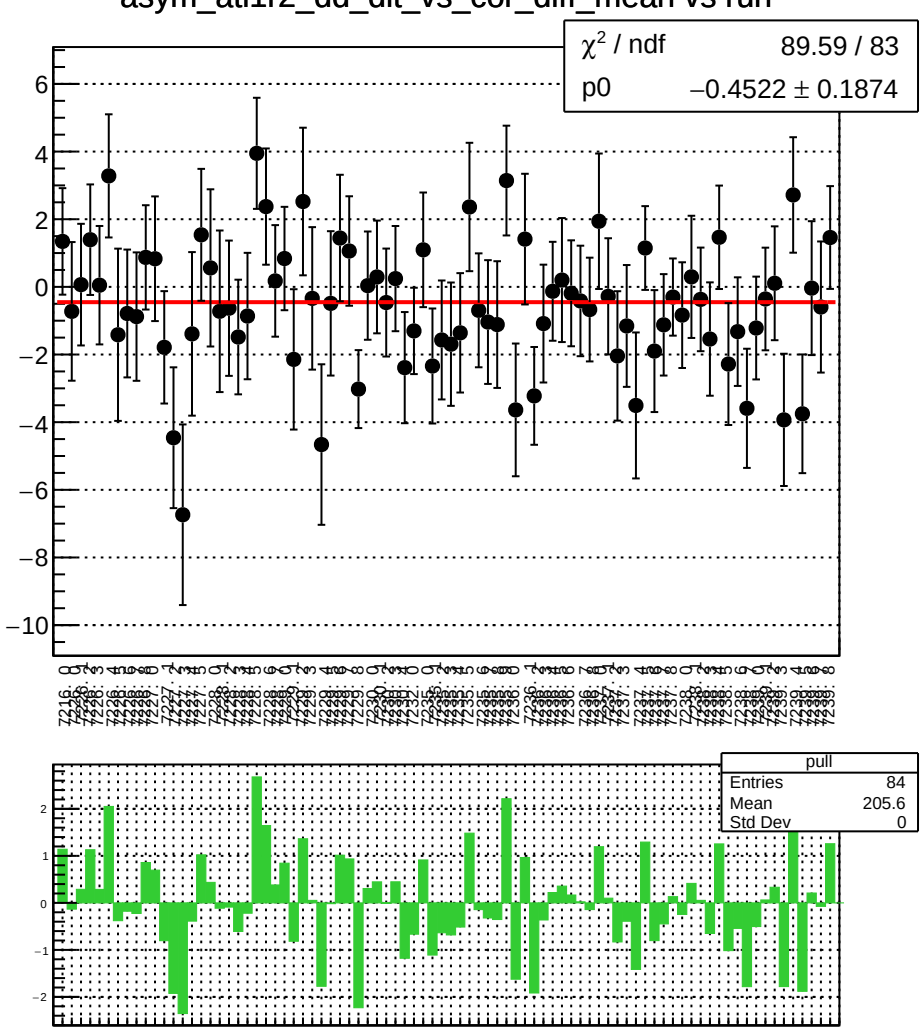

pull1D
Entries 84
Mean −0.001964
Std Dev 1.08

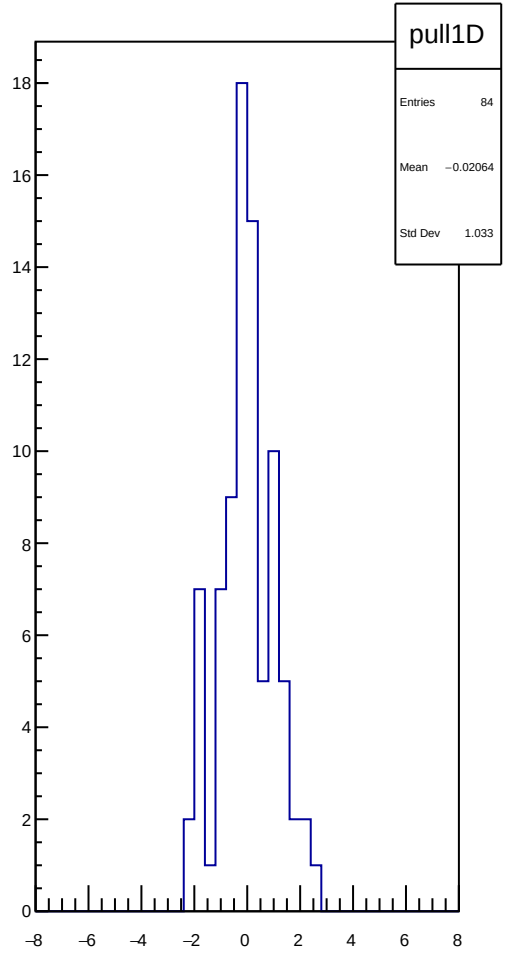

asym_atl1r2_dd_rms vs run
χ² / ndf 4990 / 83
p0 4688 ± 3.681
5400
5200
5000
4800
4600
4400
4200
4000

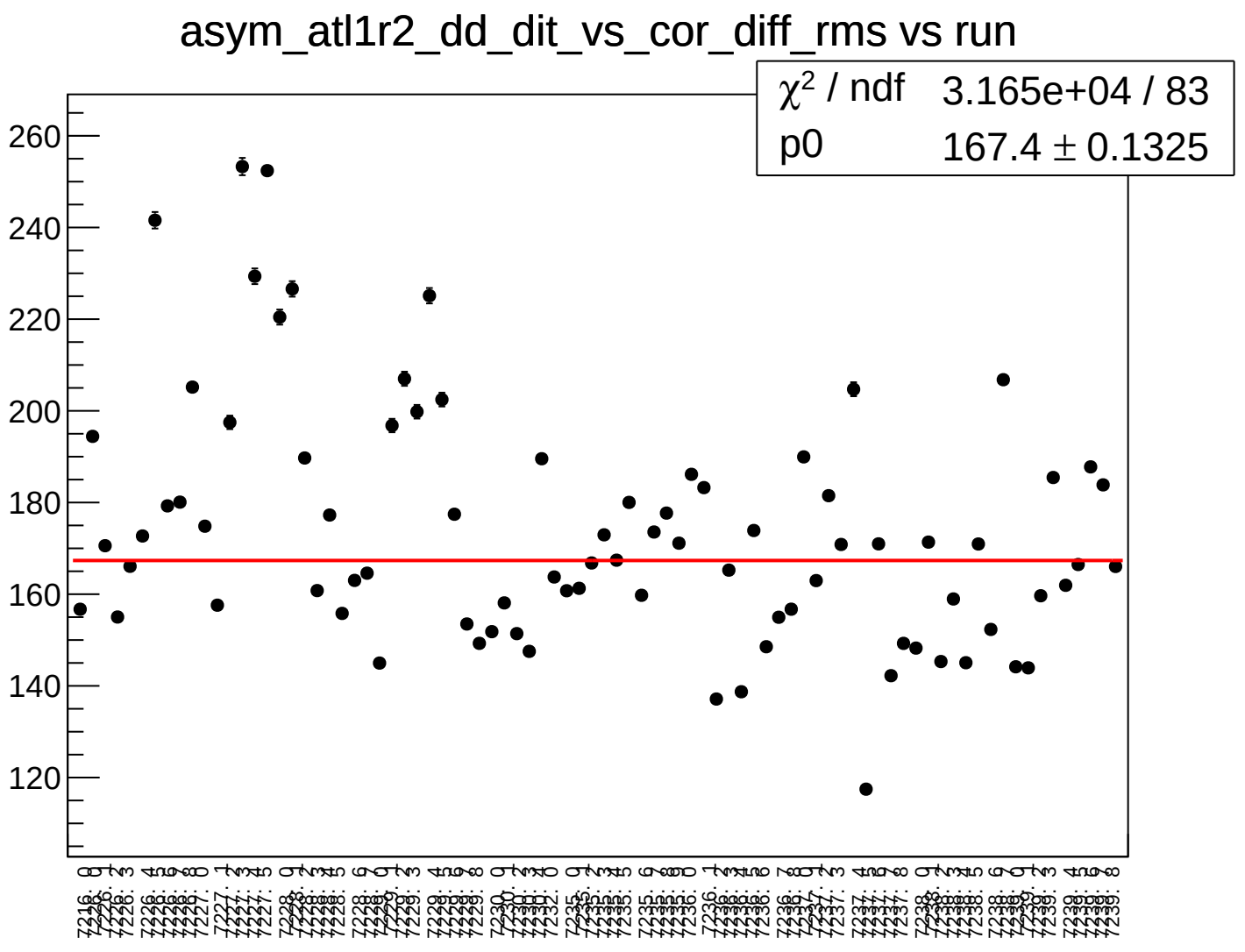

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 73.02 / 83
p0 −1.93e−13 ± 1.388e−13
pull
Entries 84
Mean 7.666
Std Dev 15.15

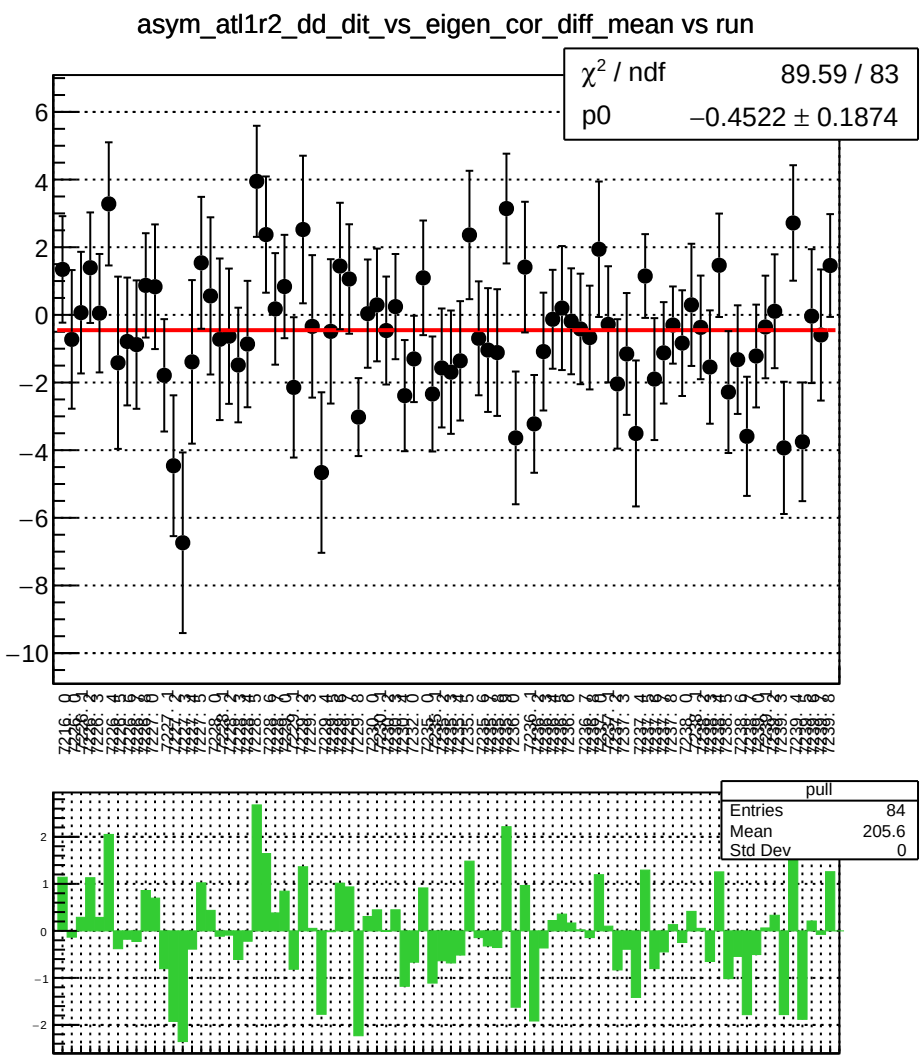

pull1D
Entries 84
Mean 0.09772
Std Dev 0.9272

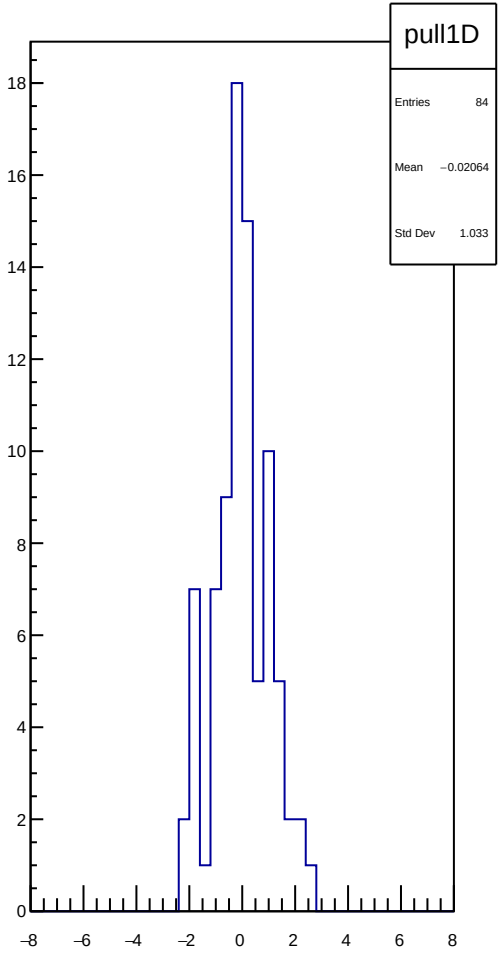

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.096e+06 / 83
p0 7.149e−11 ± 9.812e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

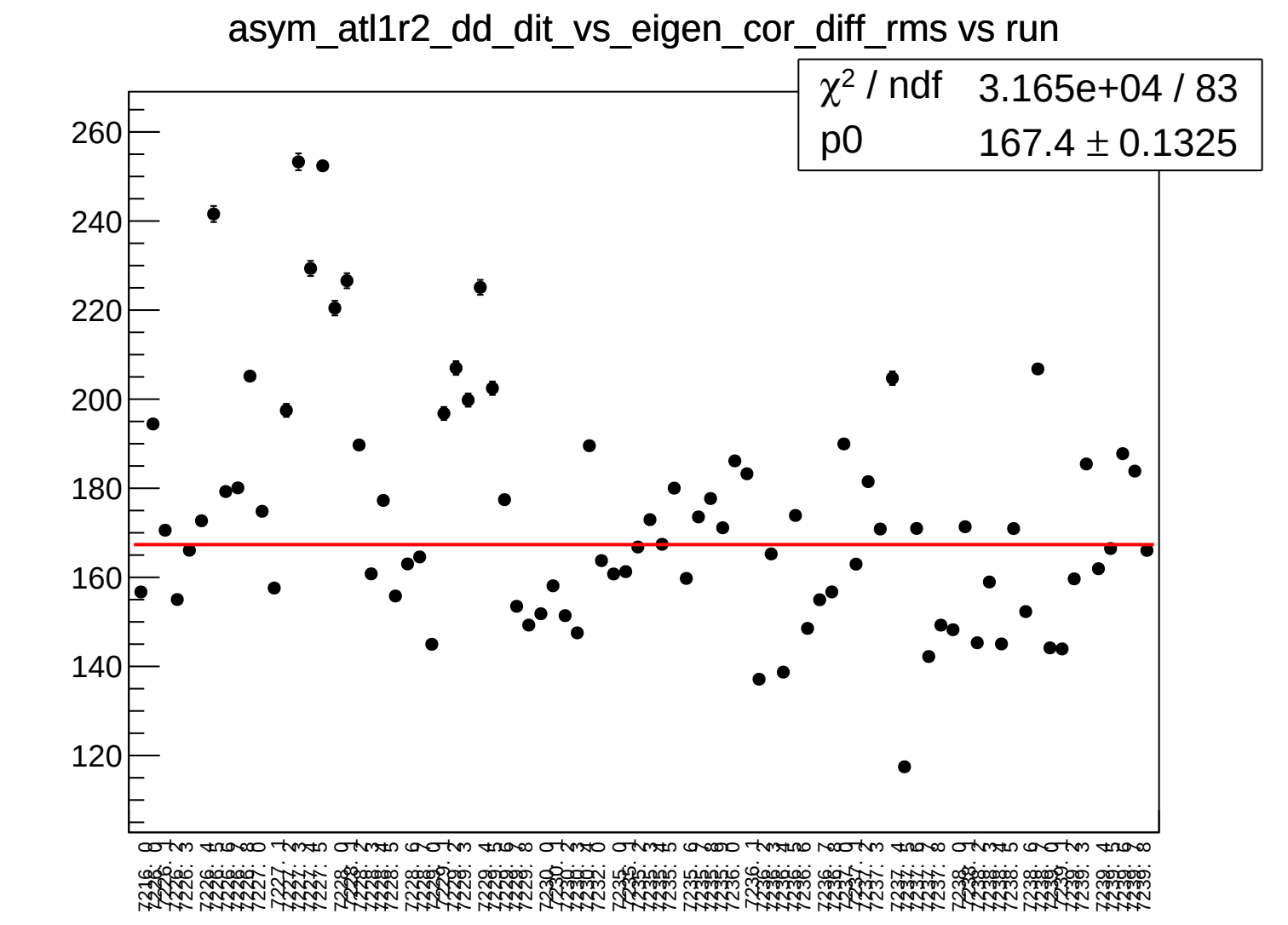

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 89.59 / 83
p0 −0.4522 ± 0.1874
pull
Entries 84
Mean 205.6
Std Dev 0

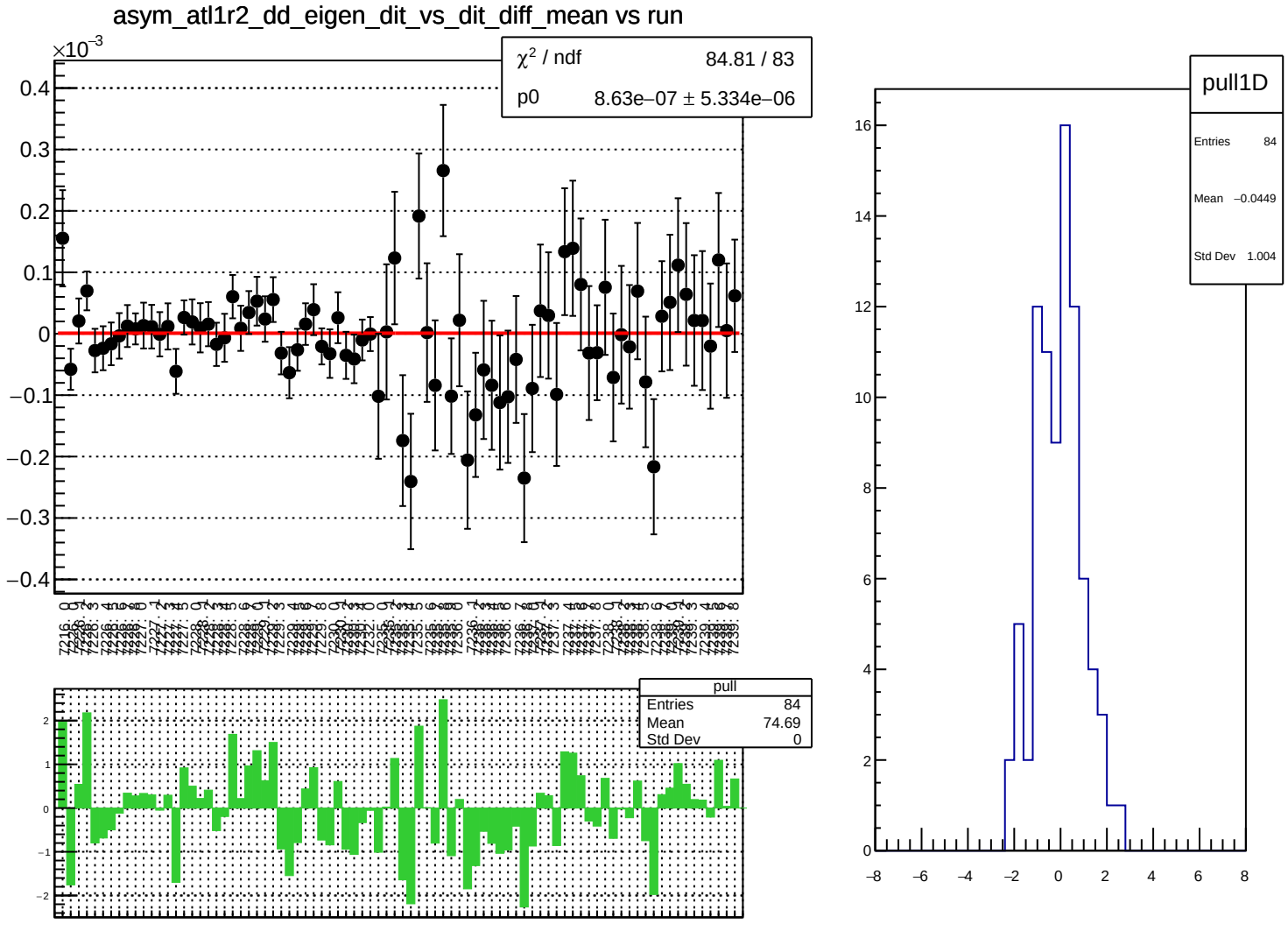

pull1D
Entries 84
Mean −0.02064
Std Dev 1.033

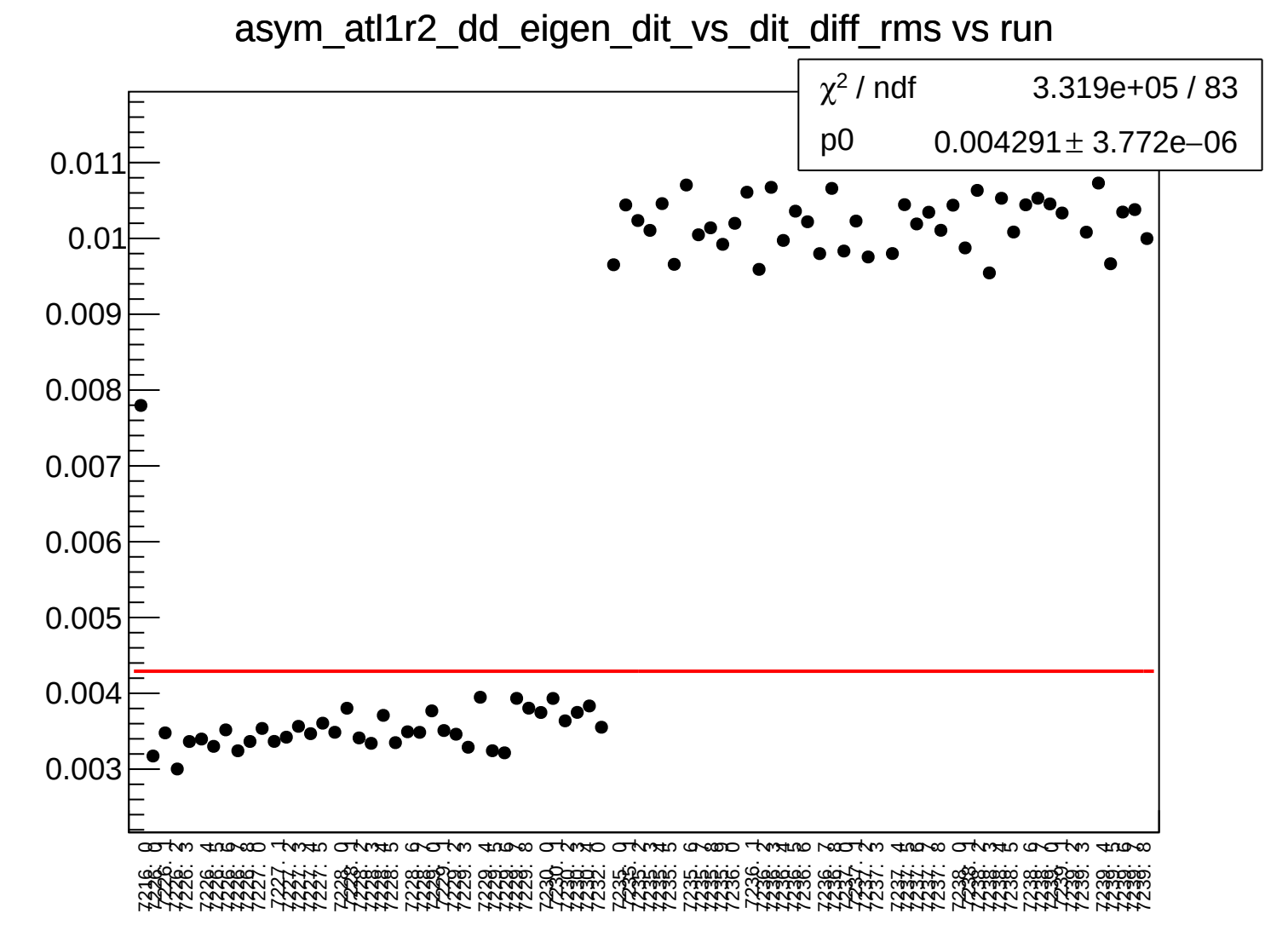

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.165e+04 / 83
p0 167.4 ± 0.1325
260
240
220
200
180
160
140
120

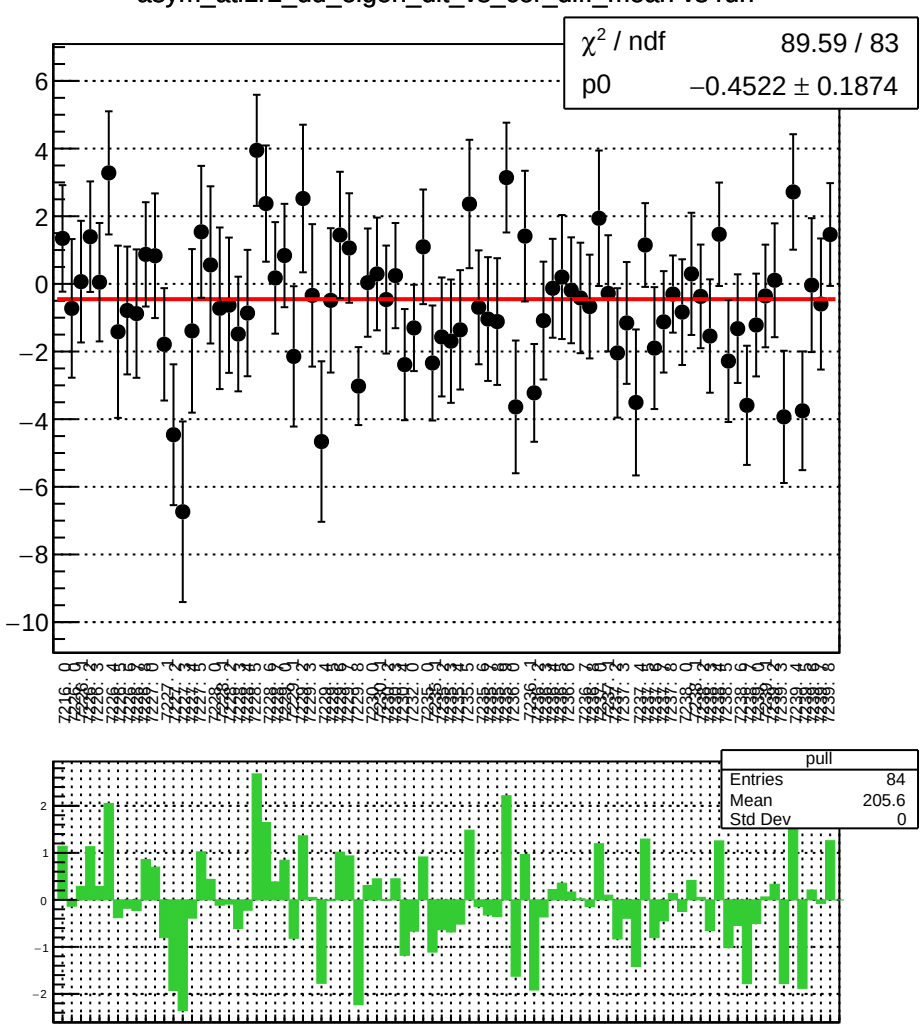

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.59 / 83
p0 −0.4522 ± 0.1874
pull
Entries 84
Mean 205.6
Std Dev 0

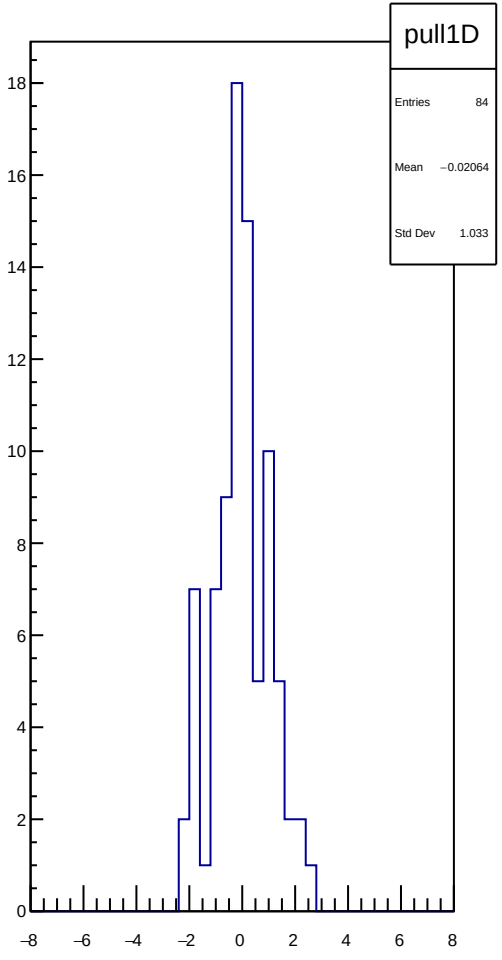

pull1D
Entries 84
Mean −0.02064
Std Dev 1.033

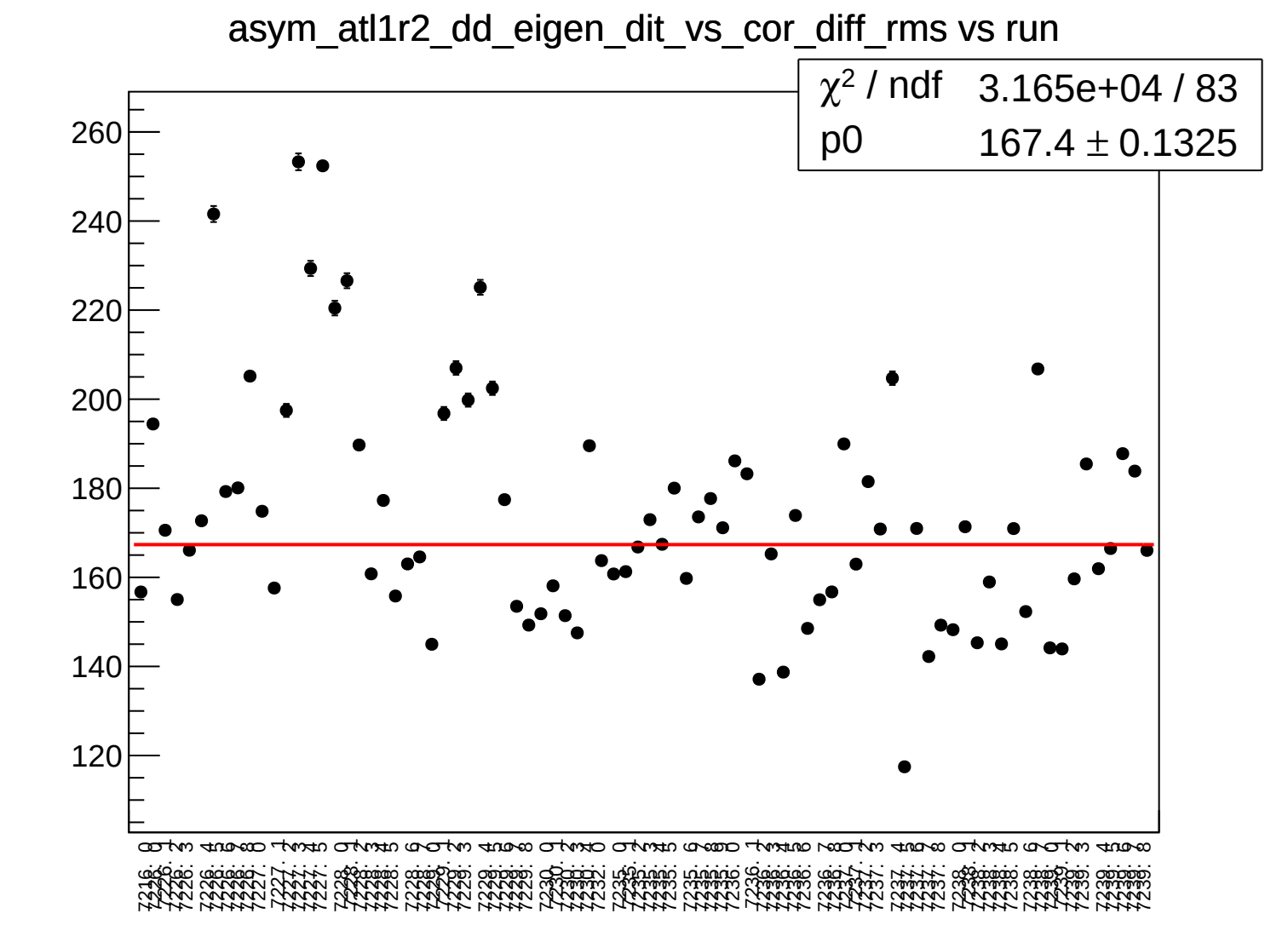

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.165e+04 / 83
p0 167.4 ± 0.1325
260
240
220
200
180
160
140
120

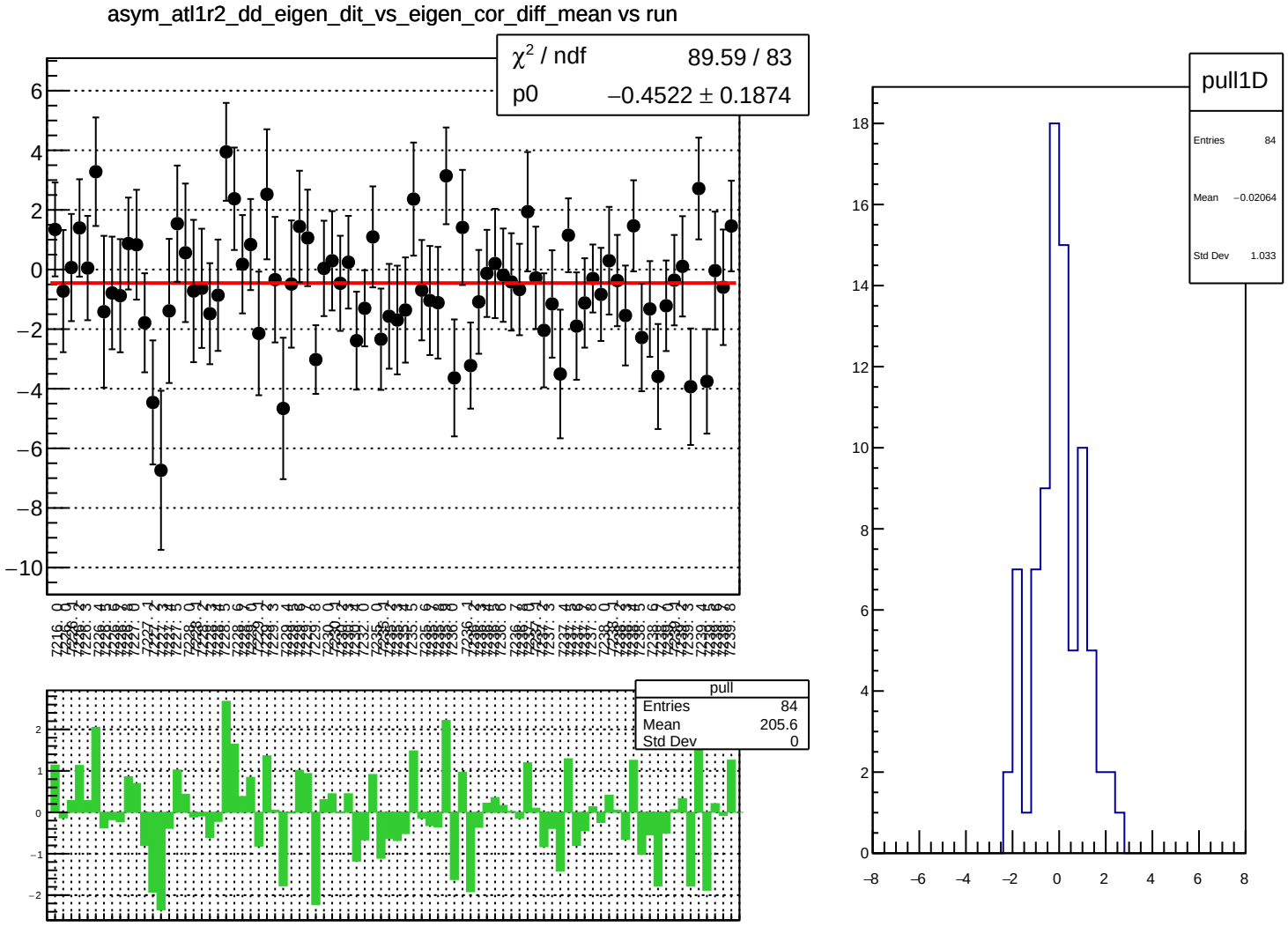

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.81 / 83
p0 8.63e−07 ± 5.334e−06
pull
Entries 84
Mean 74.69
Std Dev 0
pull1D
Entries 84
Mean −0.0449
Std Dev 1.004

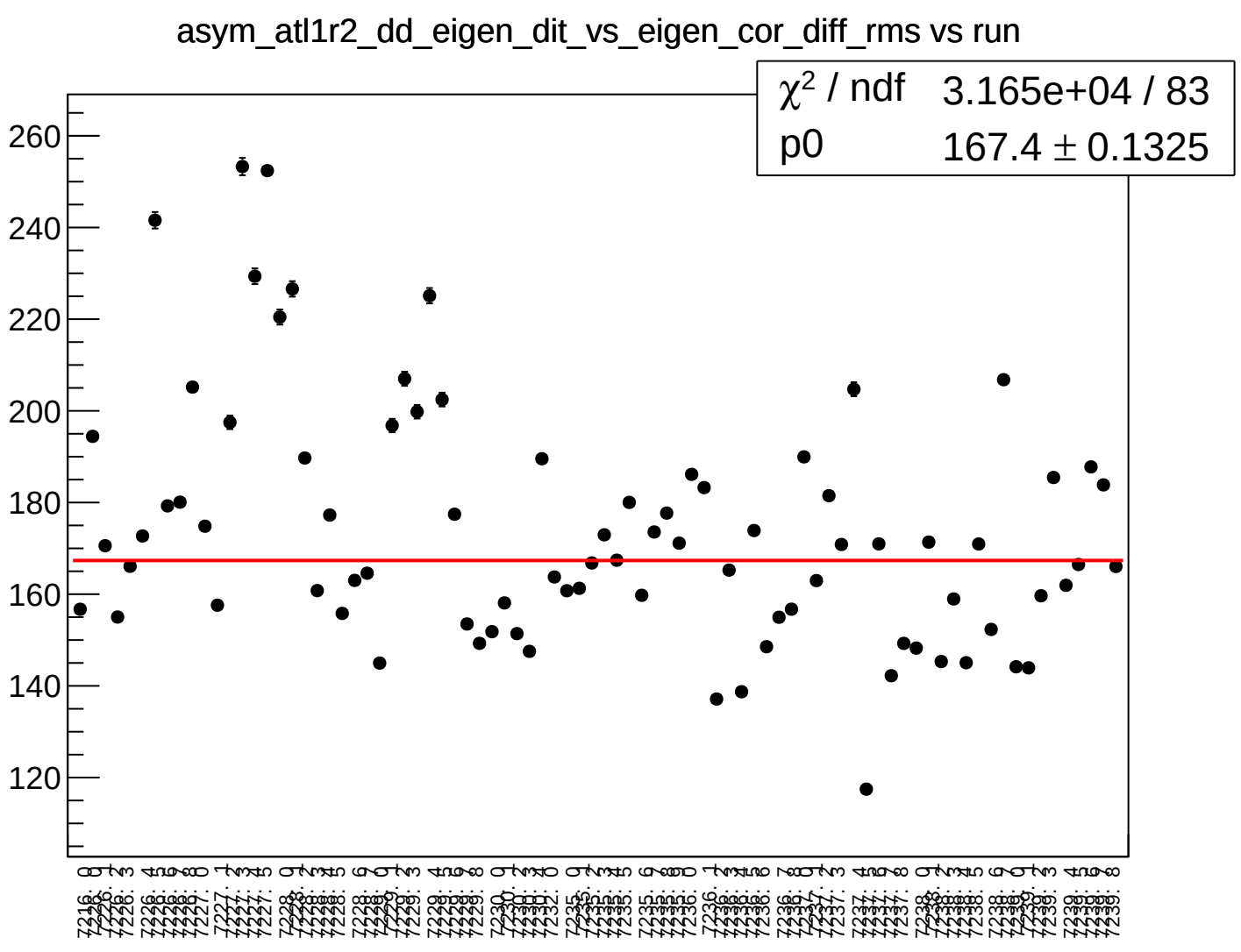

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.319e+05 / 83
p0 0.004291 ± 3.772e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

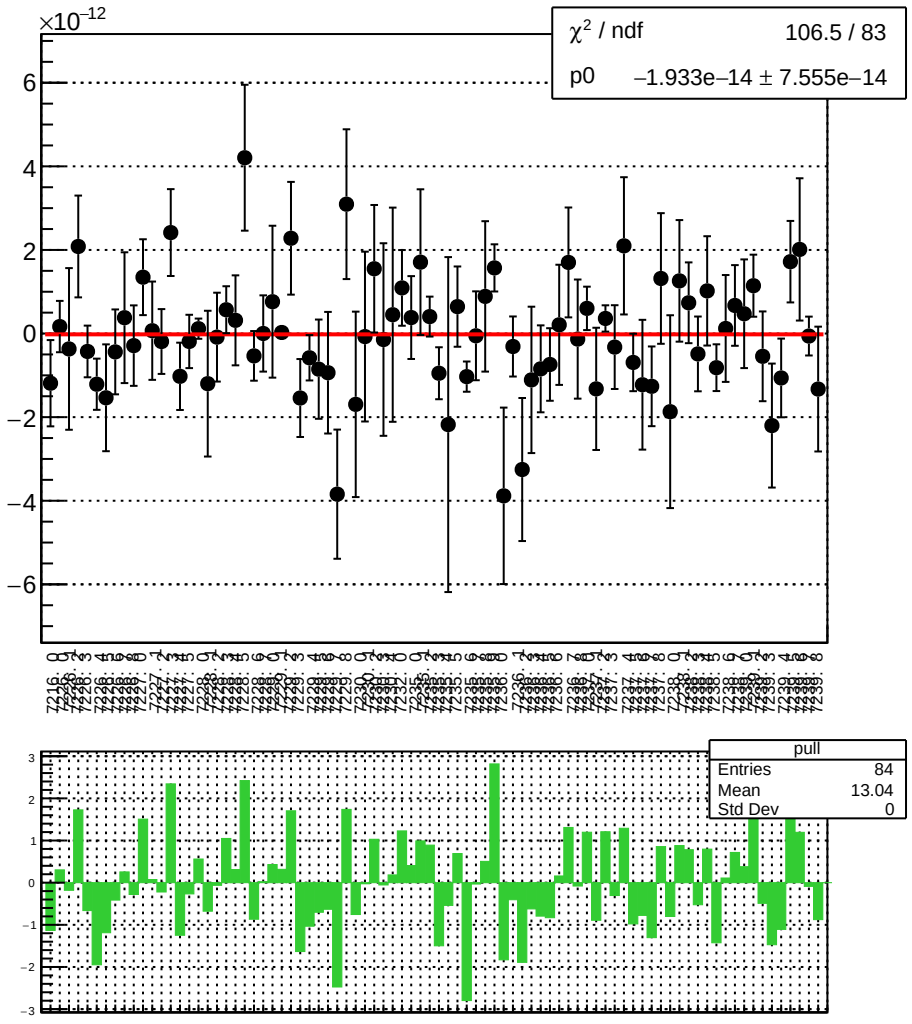

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.59 / 83
p0 −0.4522 ± 0.1874
pull
Entries 84
Mean 205.6
Std Dev 0

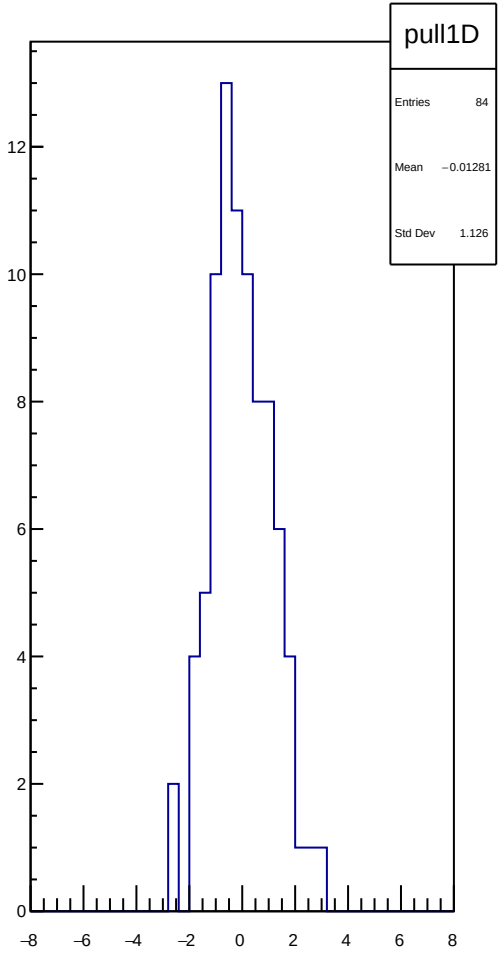

pull1D
Entries 84
Mean −0.02064
Std Dev 1.033

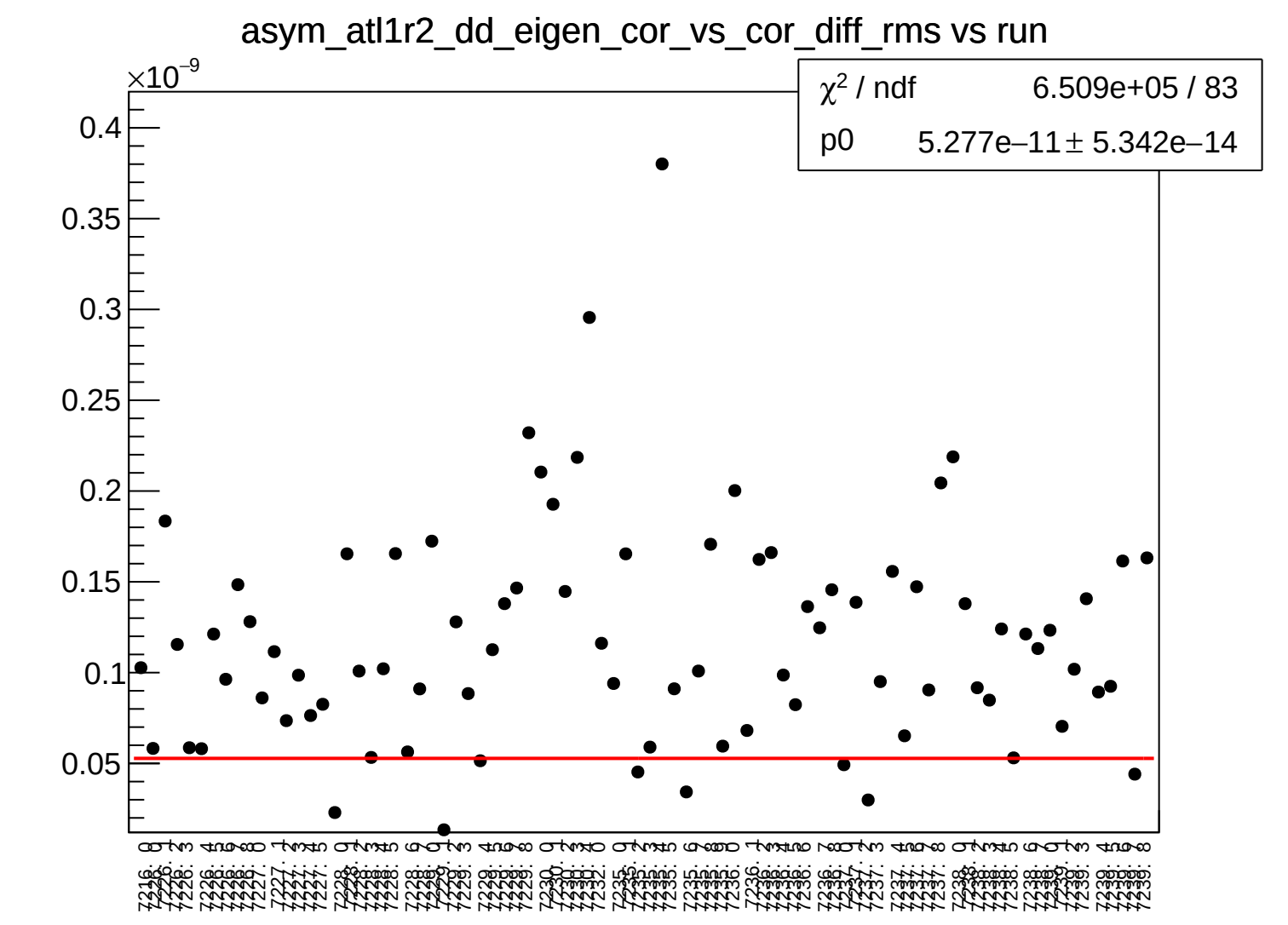

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.165e+04 / 83
p0 167.4 ± 0.1325
260
240
220
200
180
160
140
120

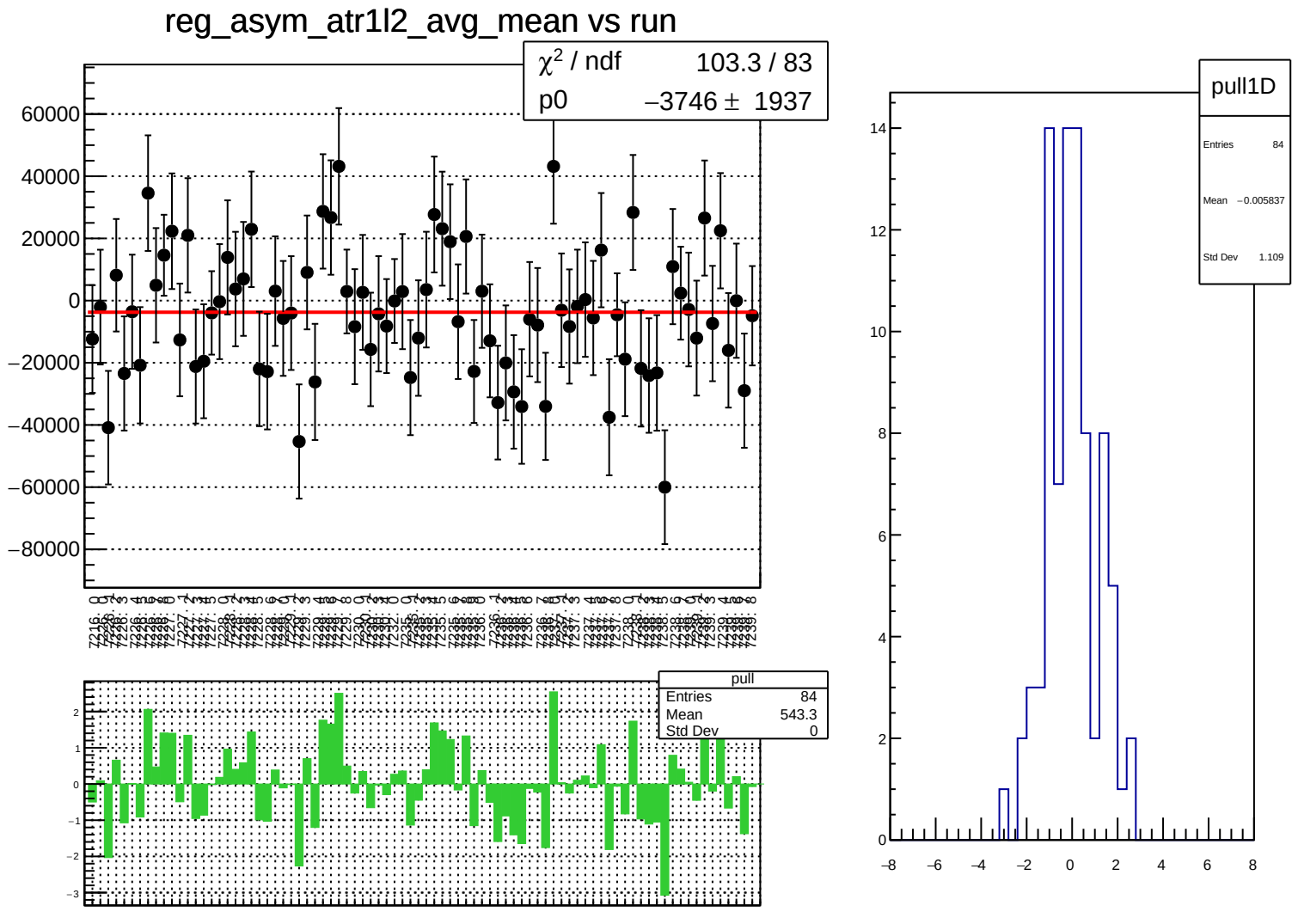

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.59 / 83
p0 −0.4522 ± 0.1874
pull
Entries 84
Mean 205.6
Std Dev 0
pull1D
Entries 84
Mean −0.02064
Std Dev 1.033

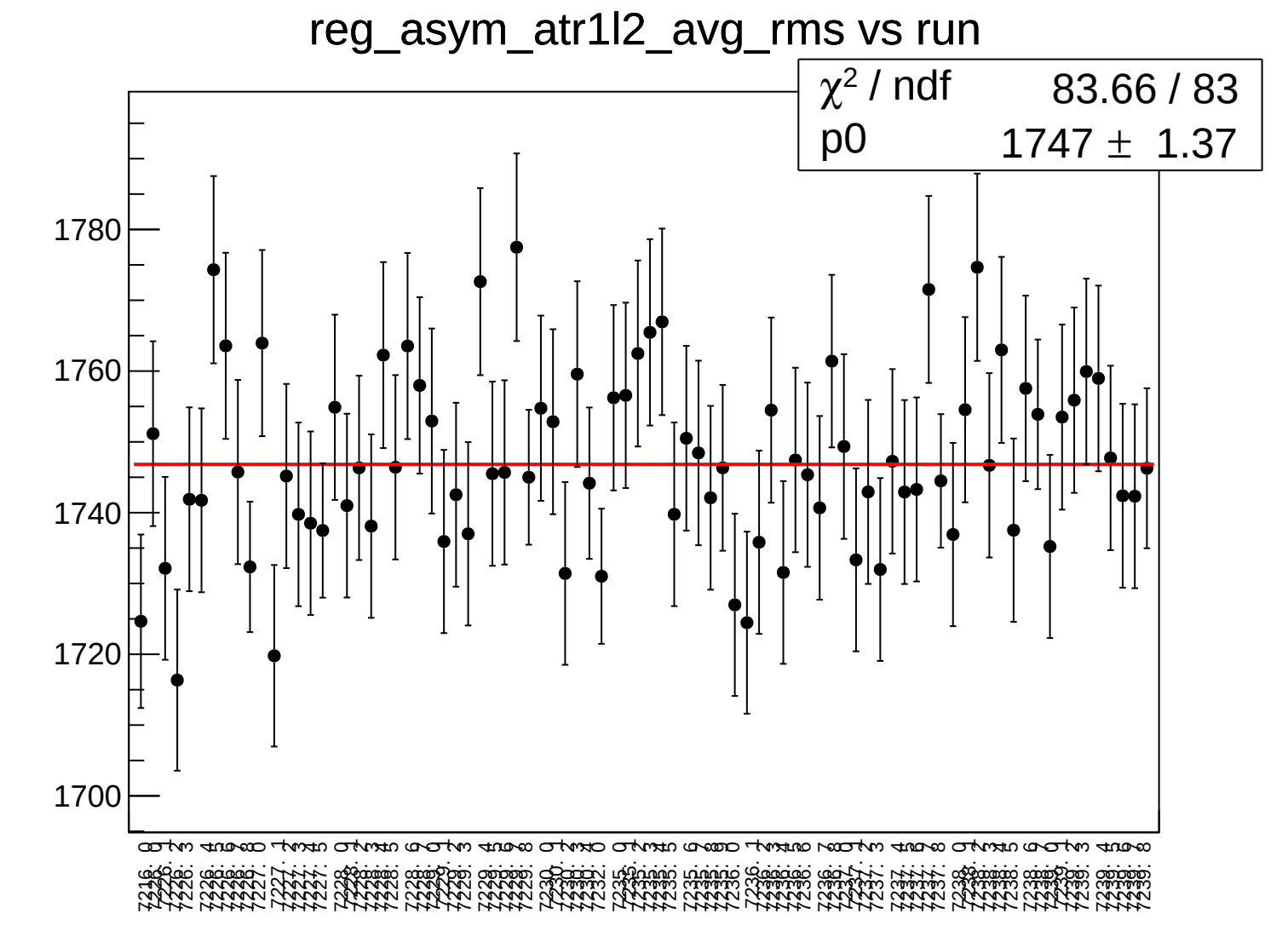

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.165e+04 / 83
p0 167.4 ± 0.1325
260
240
220
200
180
160
140
120

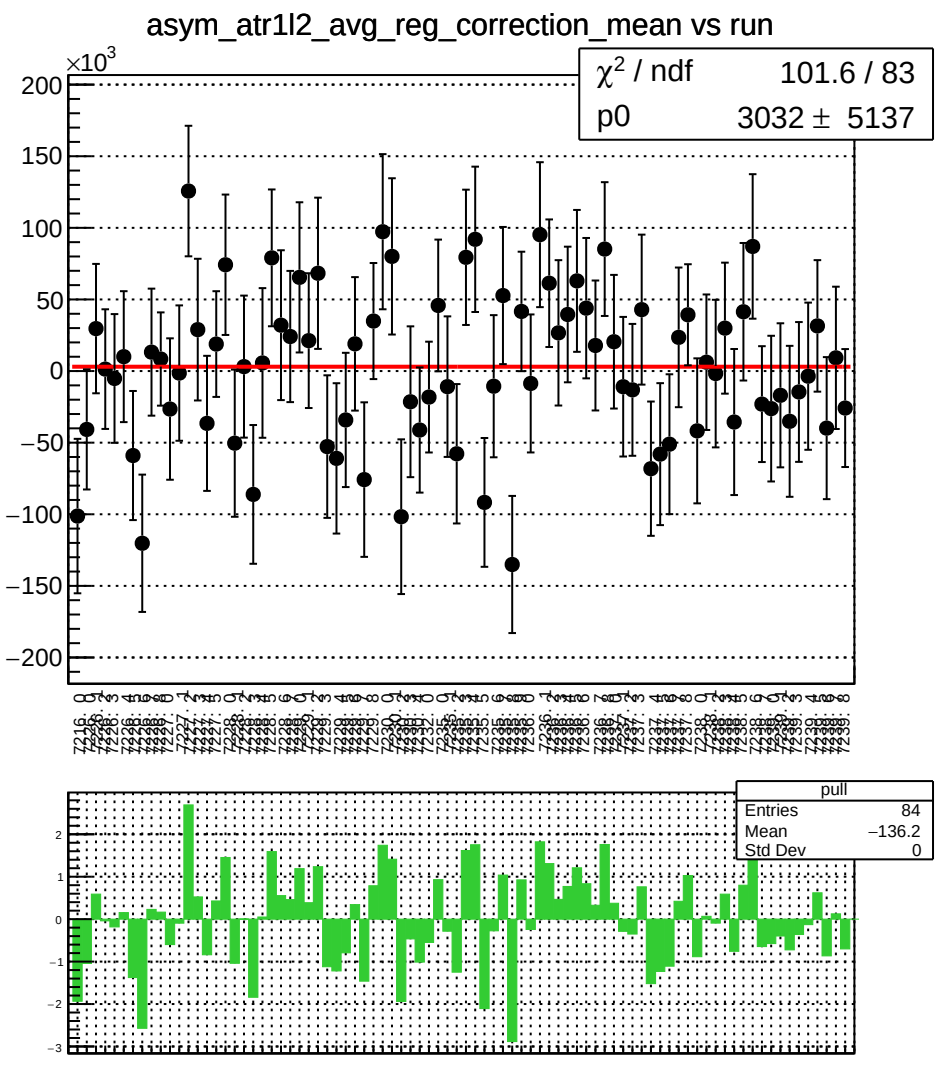

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 106.5 / 83
p0 −1.933e−14 ± 7.555e−14
pull
Entries 84
Mean 13.04
Std Dev 0

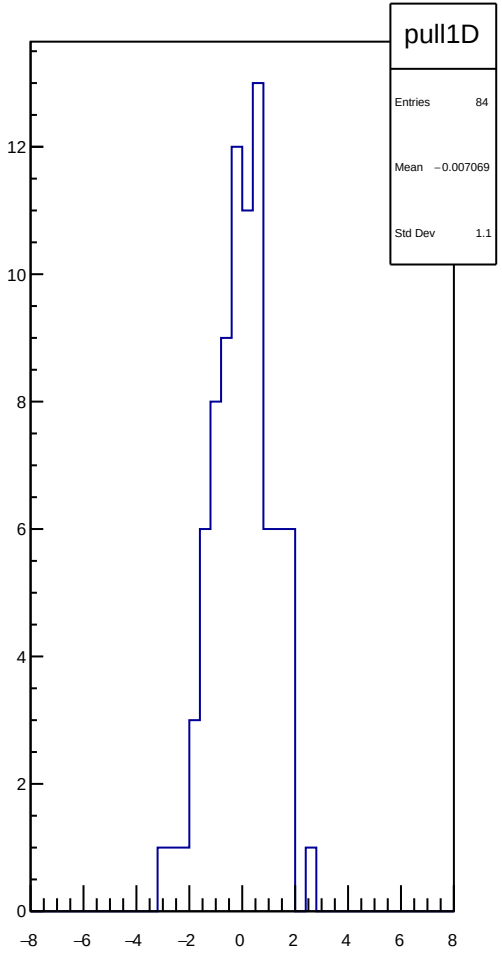

pull1D
Entries 84
Mean −0.01281
Std Dev 1.126

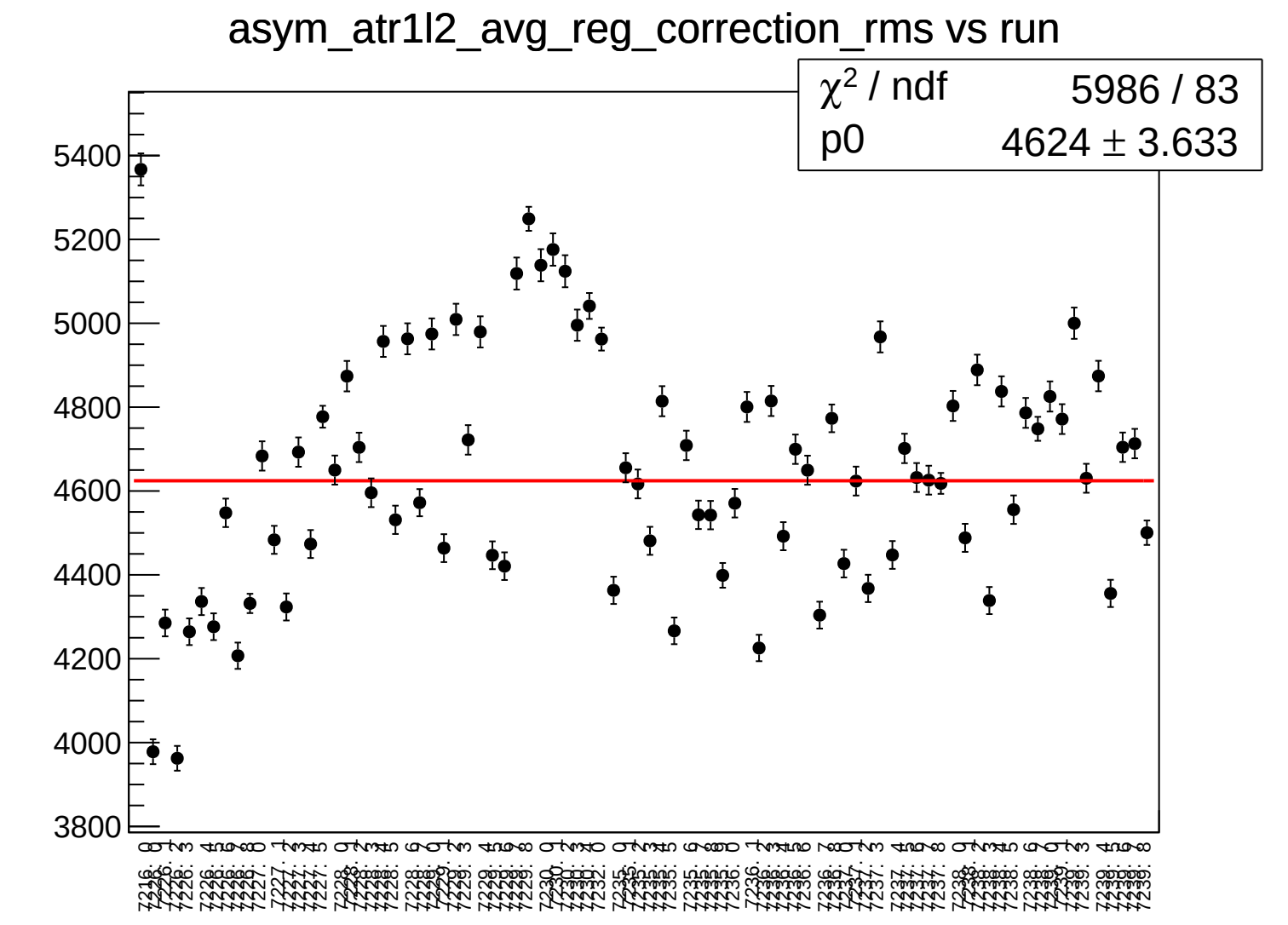

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.509e+05 / 83
p0 5.277e−11 ± 5.342e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

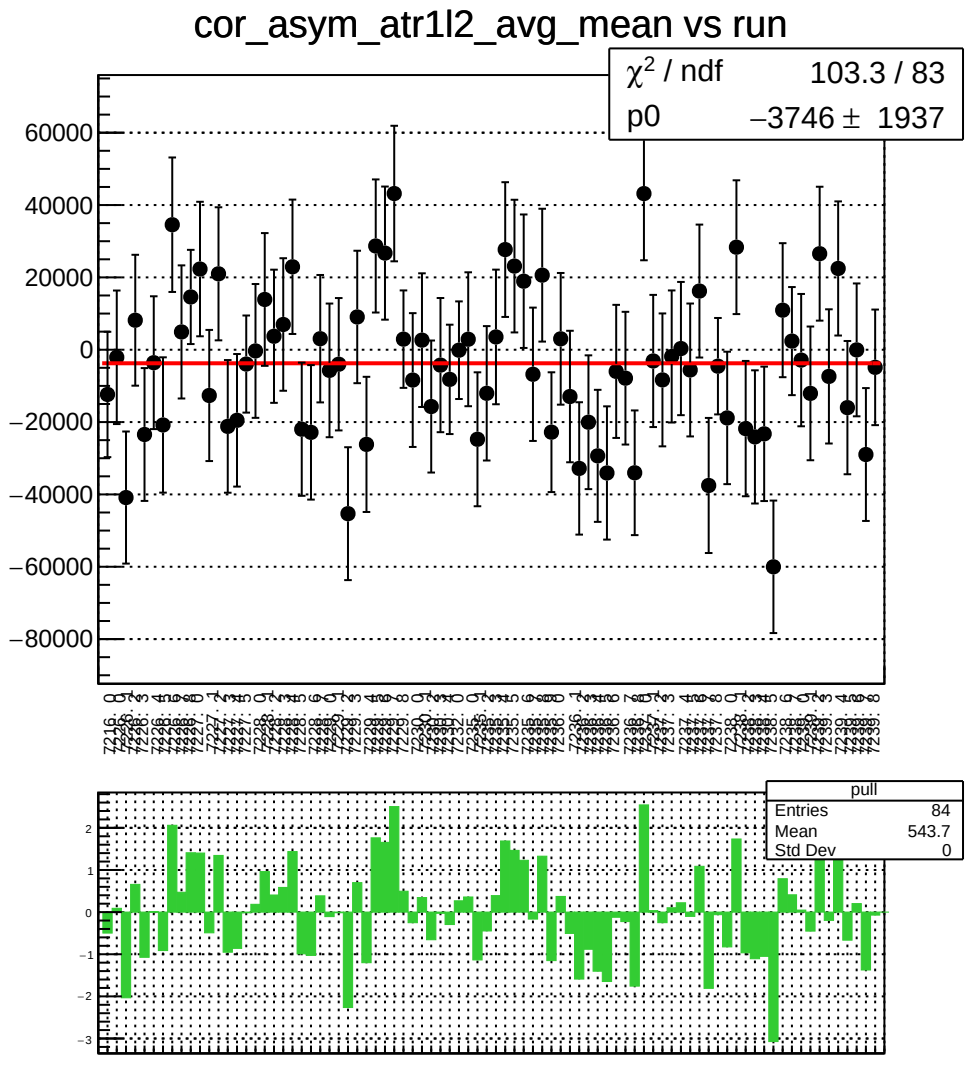

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 103.3 / 83
p0 −3746 ± 1937
pull
Entries 84
Mean 543.3
Std Dev 0
pull1D
Entries 84
Mean −0.005837
Std Dev 1.109

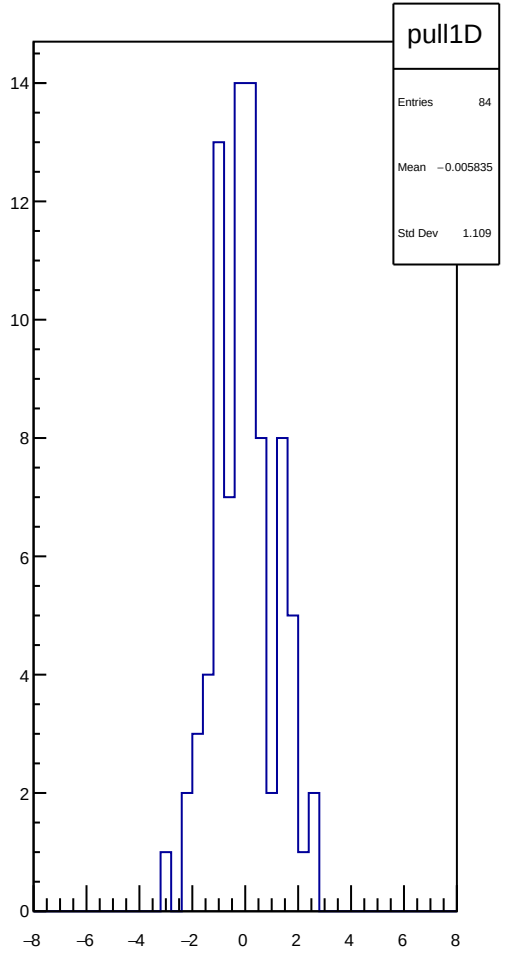

reg_asym_atr1l2_avg_rms vs run
χ^2 / ndf 83.66 / 83
p0 1747 ± 1.37
1780
1760
1740
1720
1700

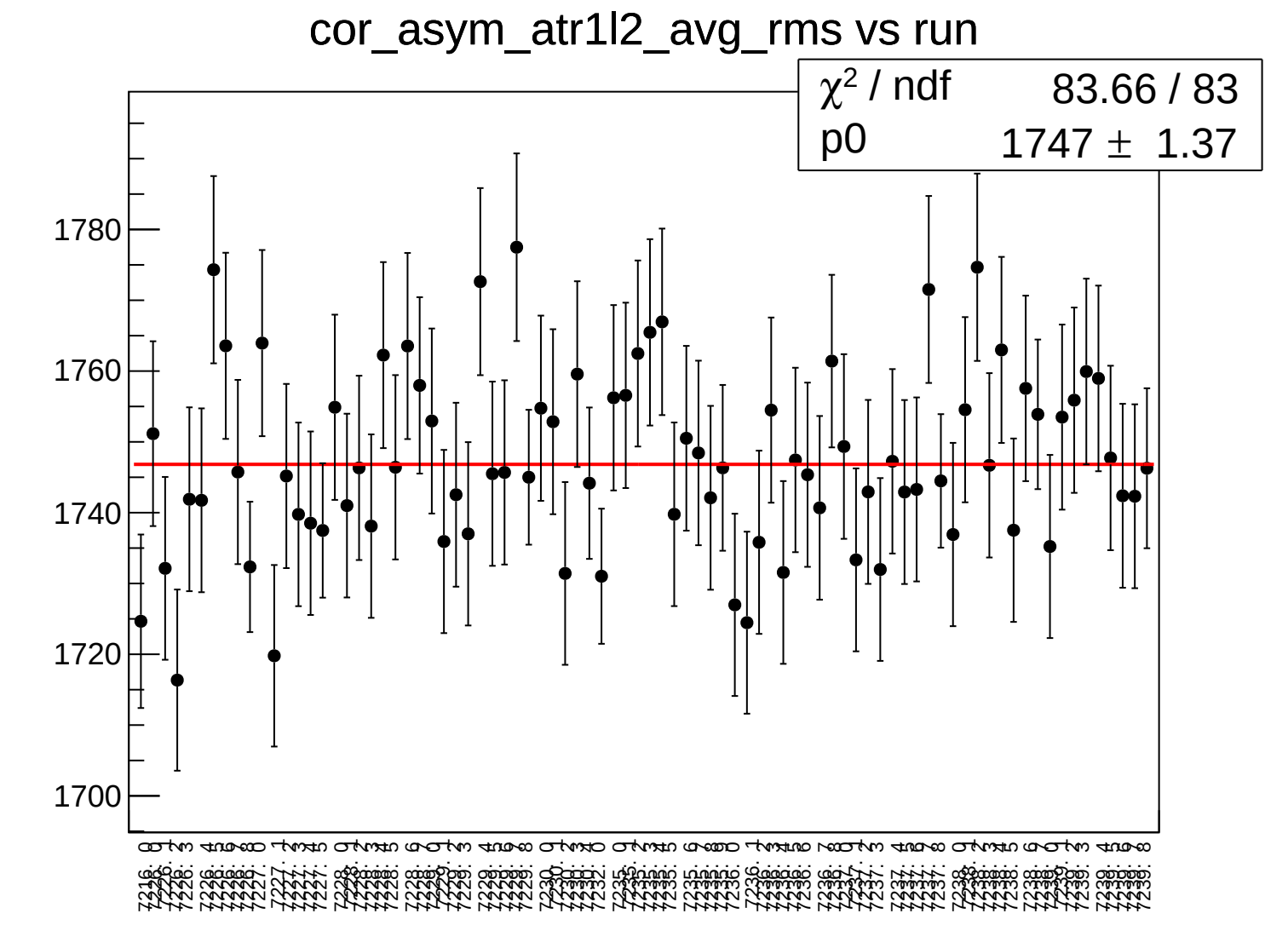

asym_atr1l2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 101.6 / 83
p0 3032 ± 5137
pull
Entries 84
Mean −136.2
Std Dev 0

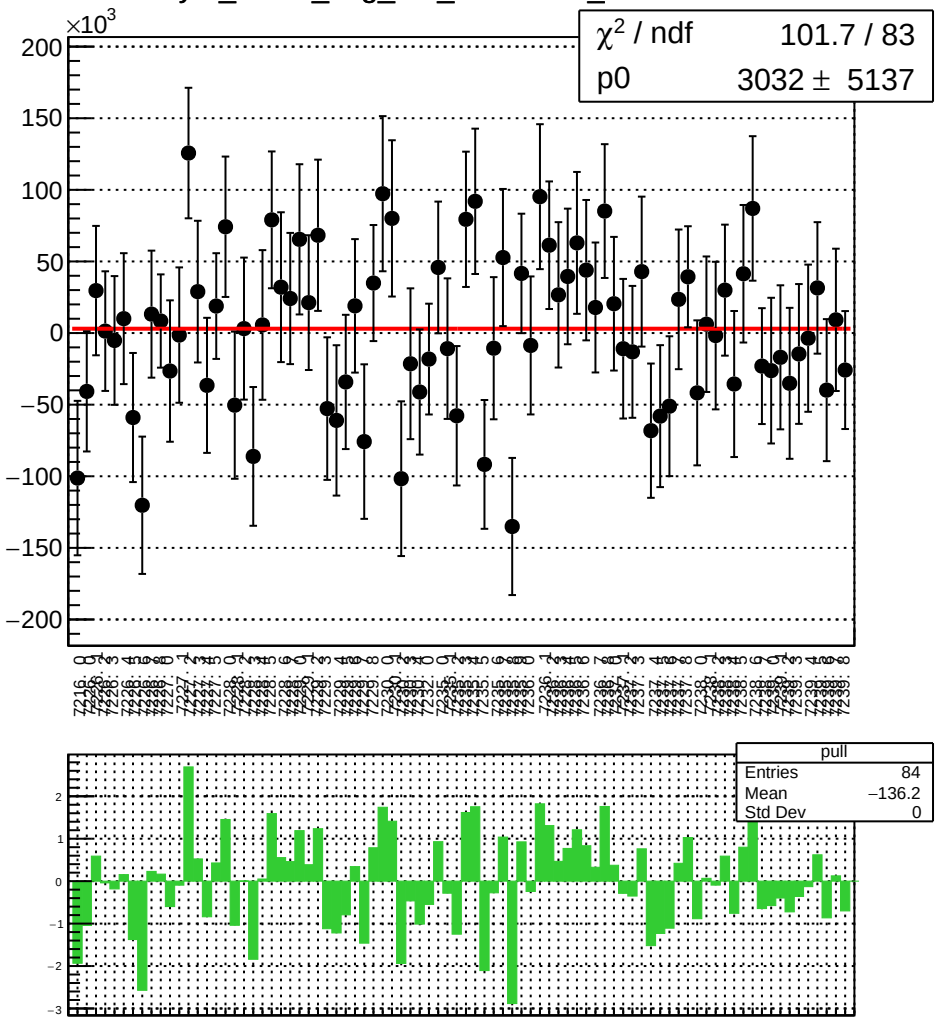

pull1D
Entries 84
Mean −0.007069
Std Dev 1.1

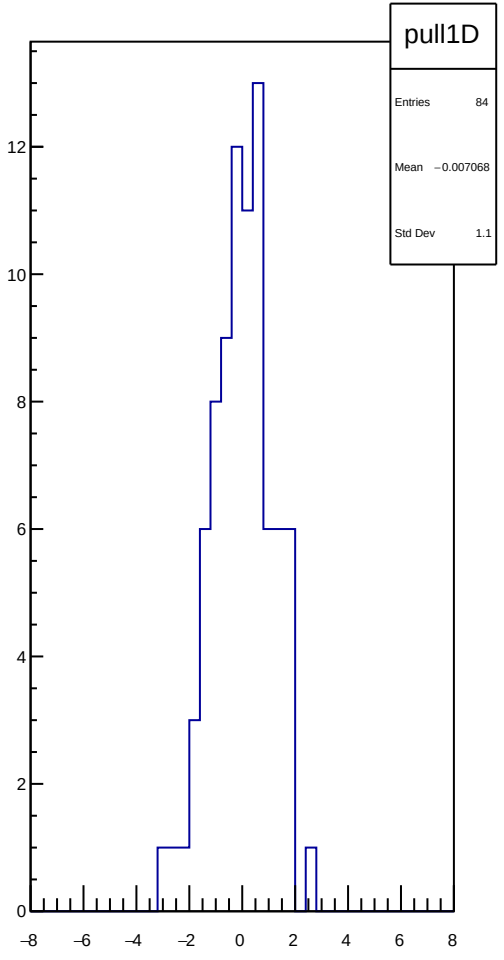

asym_atr1l2_avg_reg_correction_rms vs run
χ² / ndf 5986 / 83
p0 4624 ± 3.633
5400
5200
5000
4800
4600
4400
4200
4000
3800

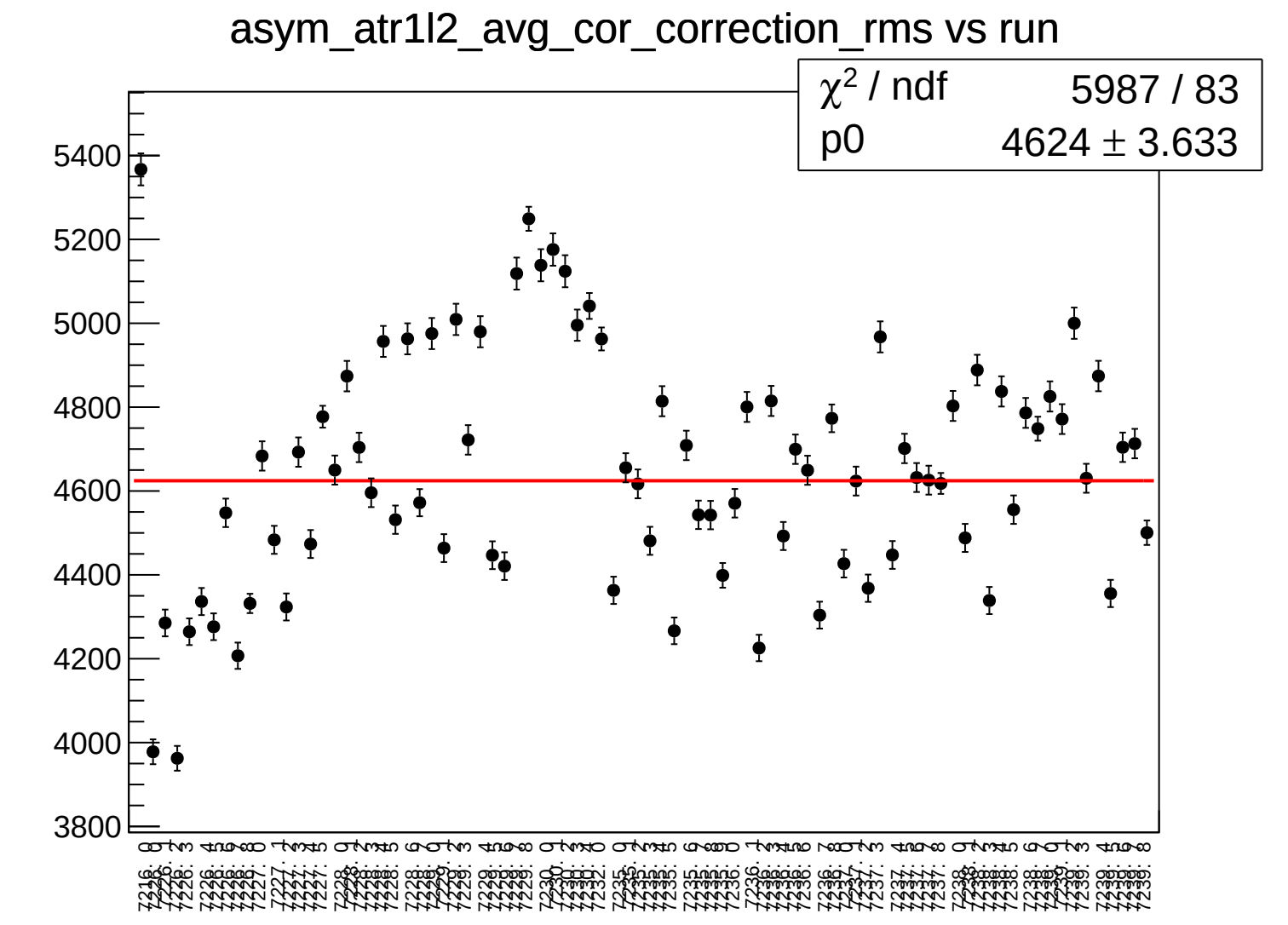

cor_asym_atr1l2_avg_mean vs run
χ² / ndf 103.3 / 83
p0 −3746 ± 1937
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean 543.7
Std Dev 0
2
1
0
−1
−2
−3

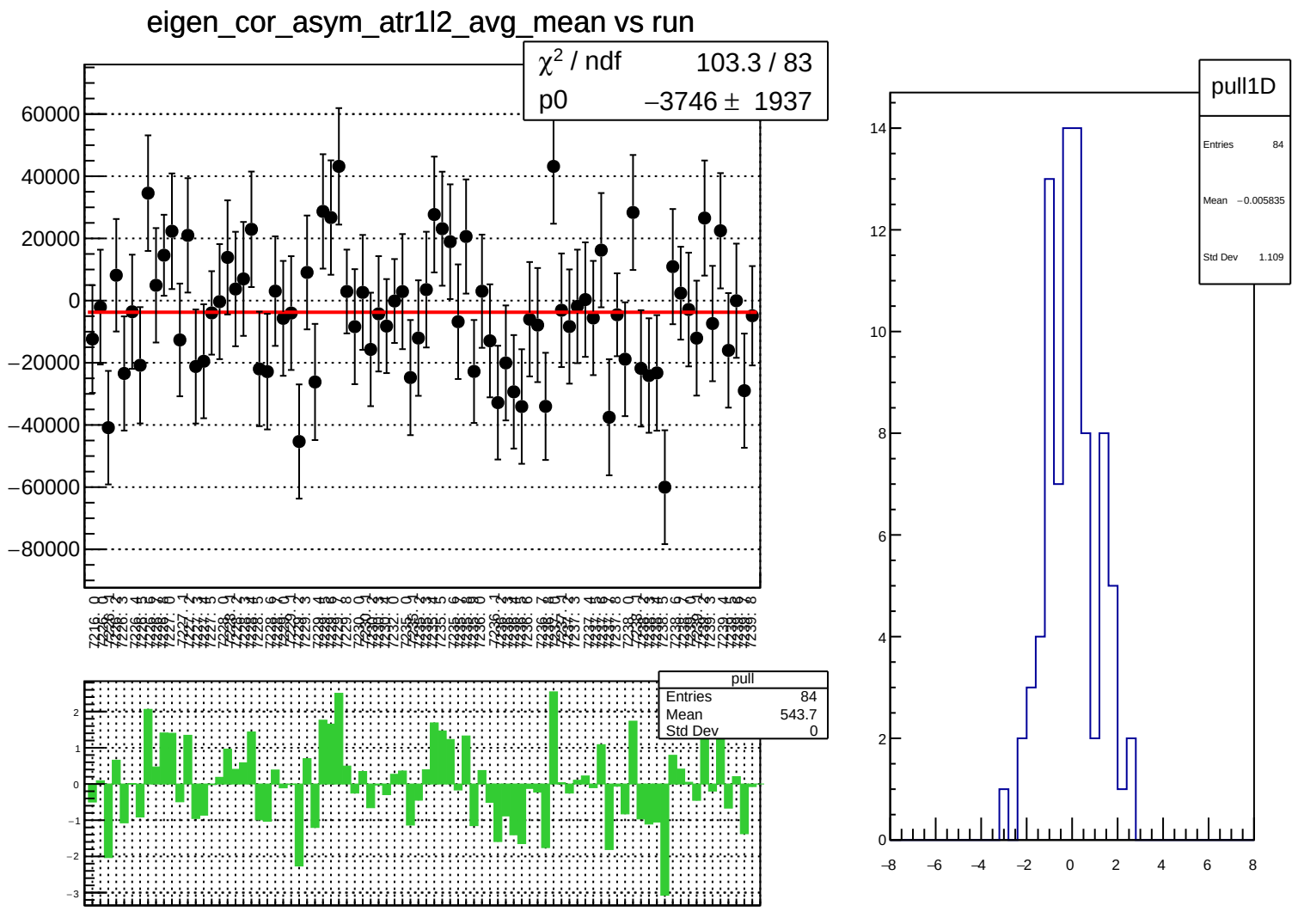

pull1D
Entries 84
Mean −0.005835
Std Dev 1.109
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

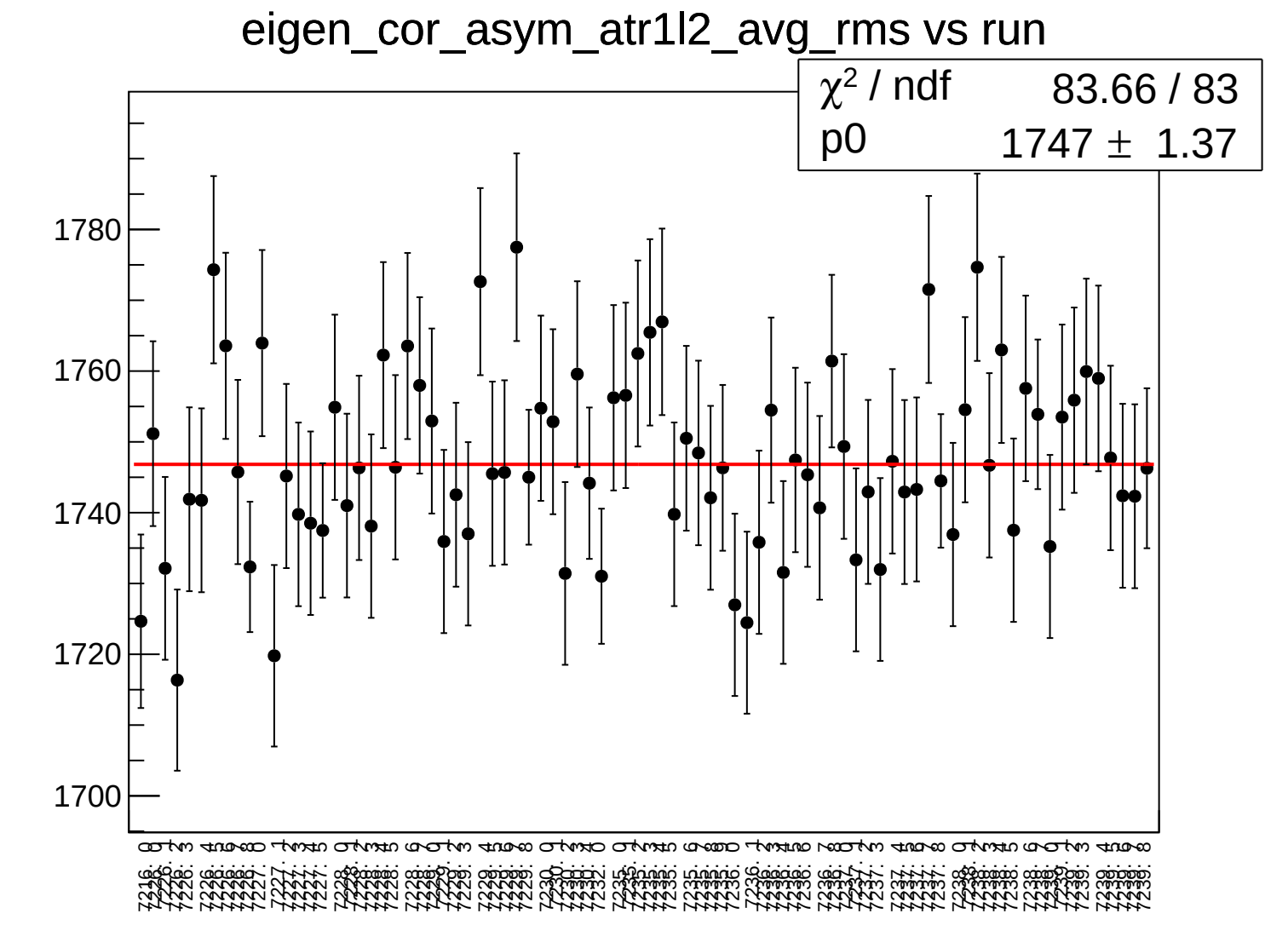

cor_asym_atr1l2_avg_rms vs run
χ² / ndf 83.66 / 83
p0 1747 ± 1.37
1780
1760
1740
1720
1700

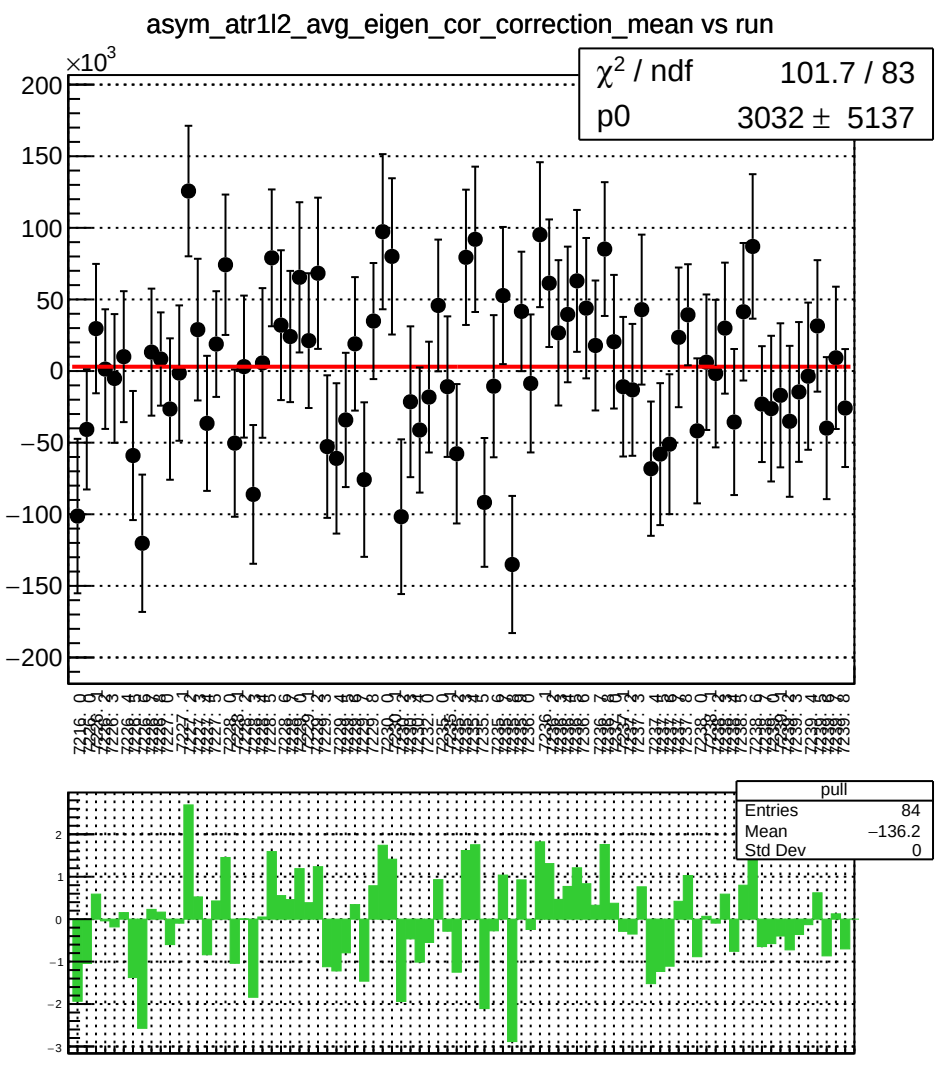

asym_atr1l2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 101.7 / 83
p0 3032 ± 5137
pull
Entries 84
Mean −136.2
Std Dev 0

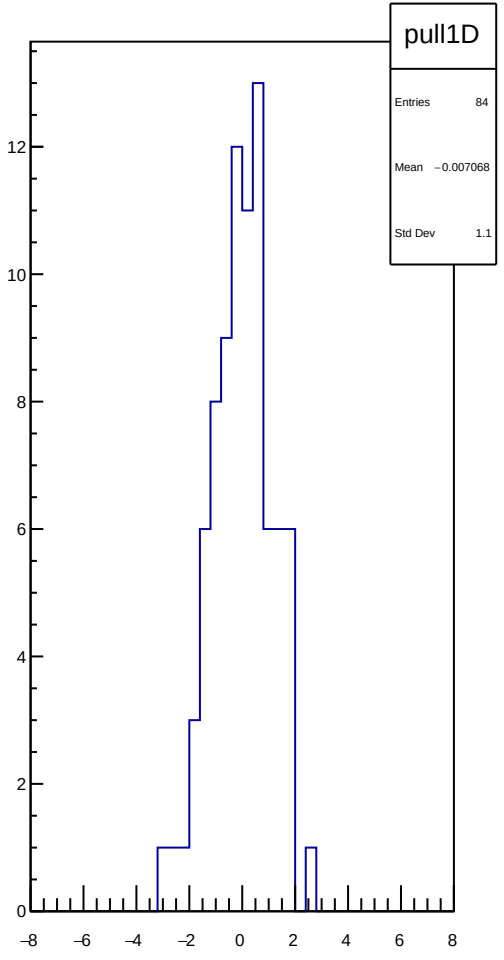

pull1D
Entries 84
Mean −0.007068
Std Dev 1.1

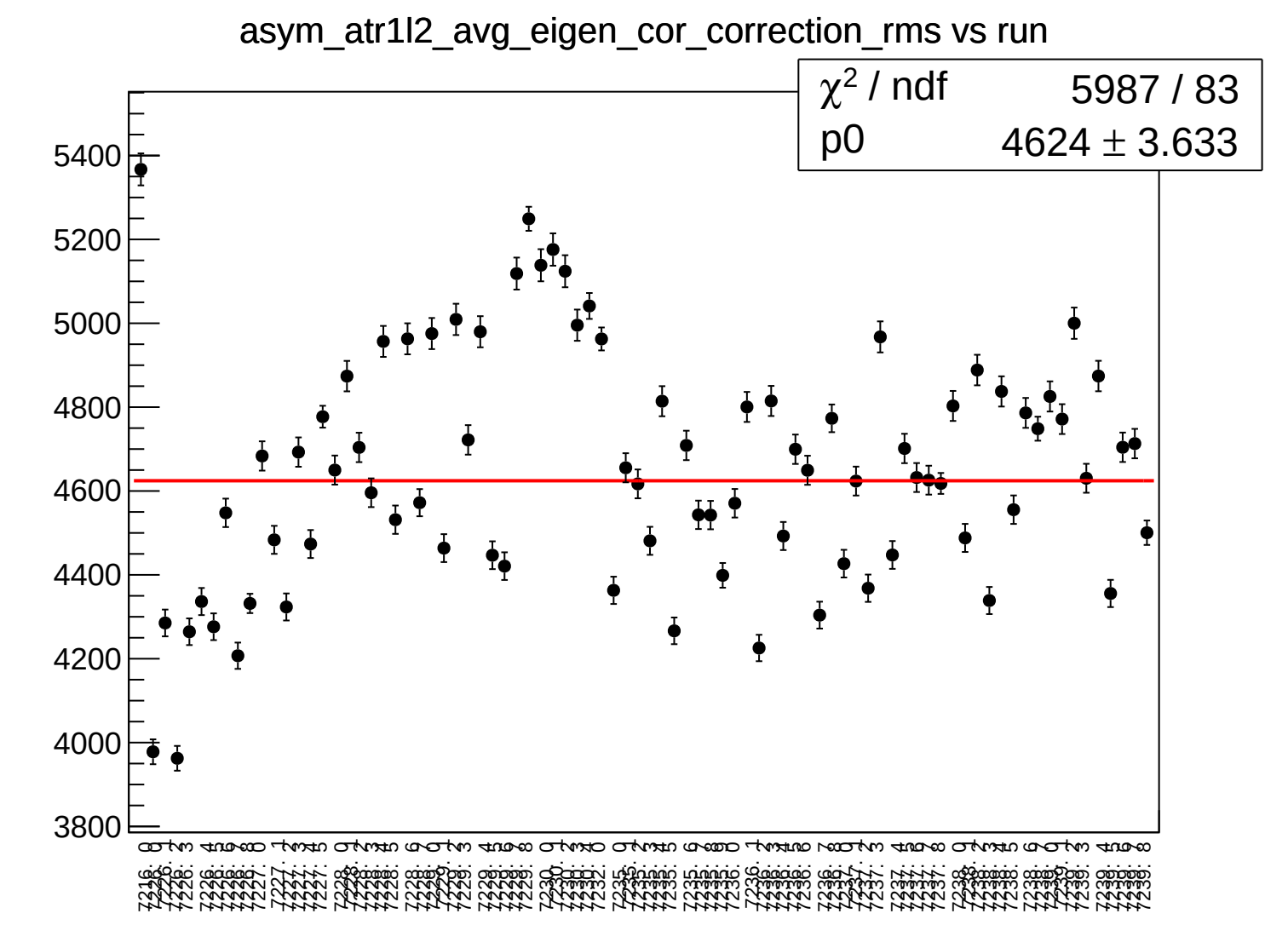

asym_atr1l2_avg_cor_correction_rms vs run
χ² / ndf 5987 / 83
p0 4624 ± 3.633
5400
5200
5000
4800
4600
4400
4200
4000
3800

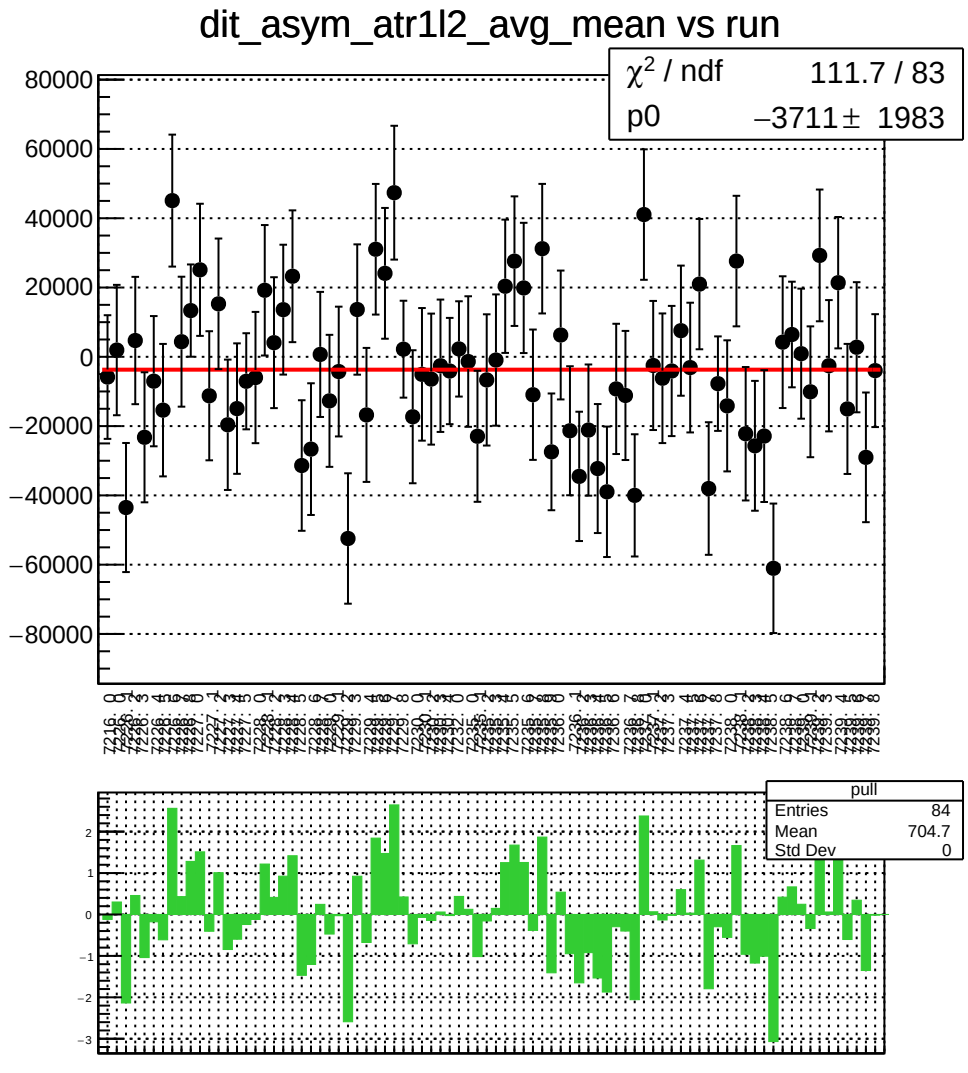

eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 103.3 / 83
p0 −3746 ± 1937
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean 543.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean −0.005835
Std Dev 1.109
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

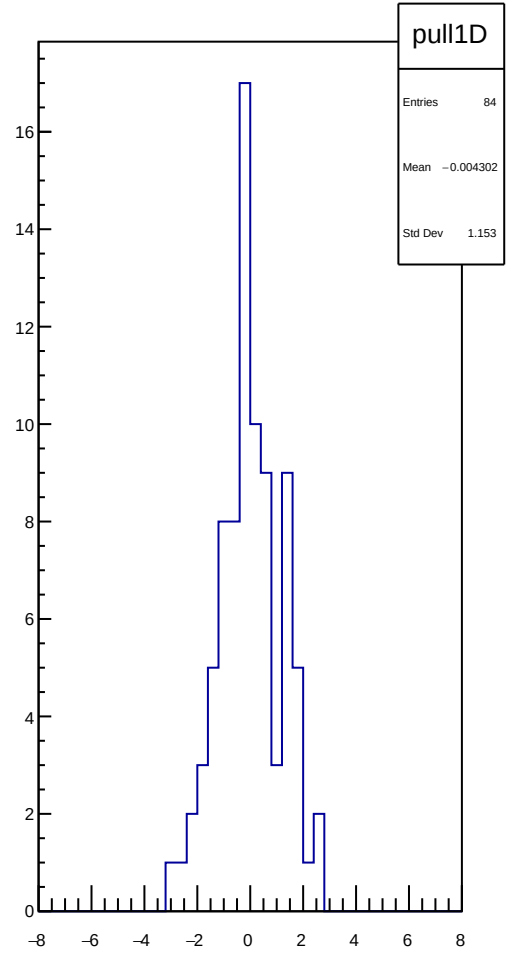

eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 83.66 / 83
p0 1747 ± 1.37
1780
1760
1740
1720
1700

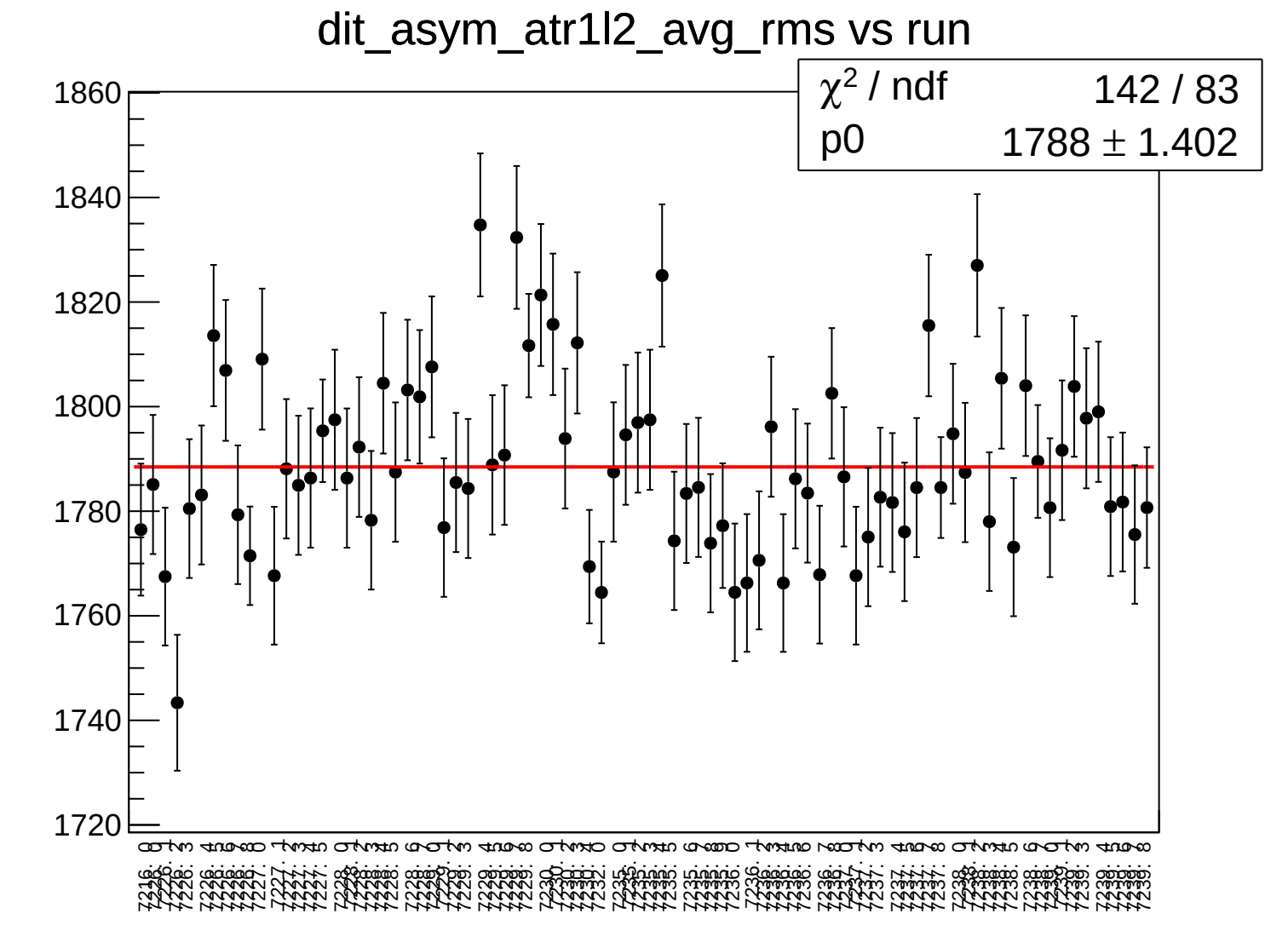

asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 101.7 / 83
p0 3032 ± 5137
pull
Entries 84
Mean −136.2
Std Dev 0

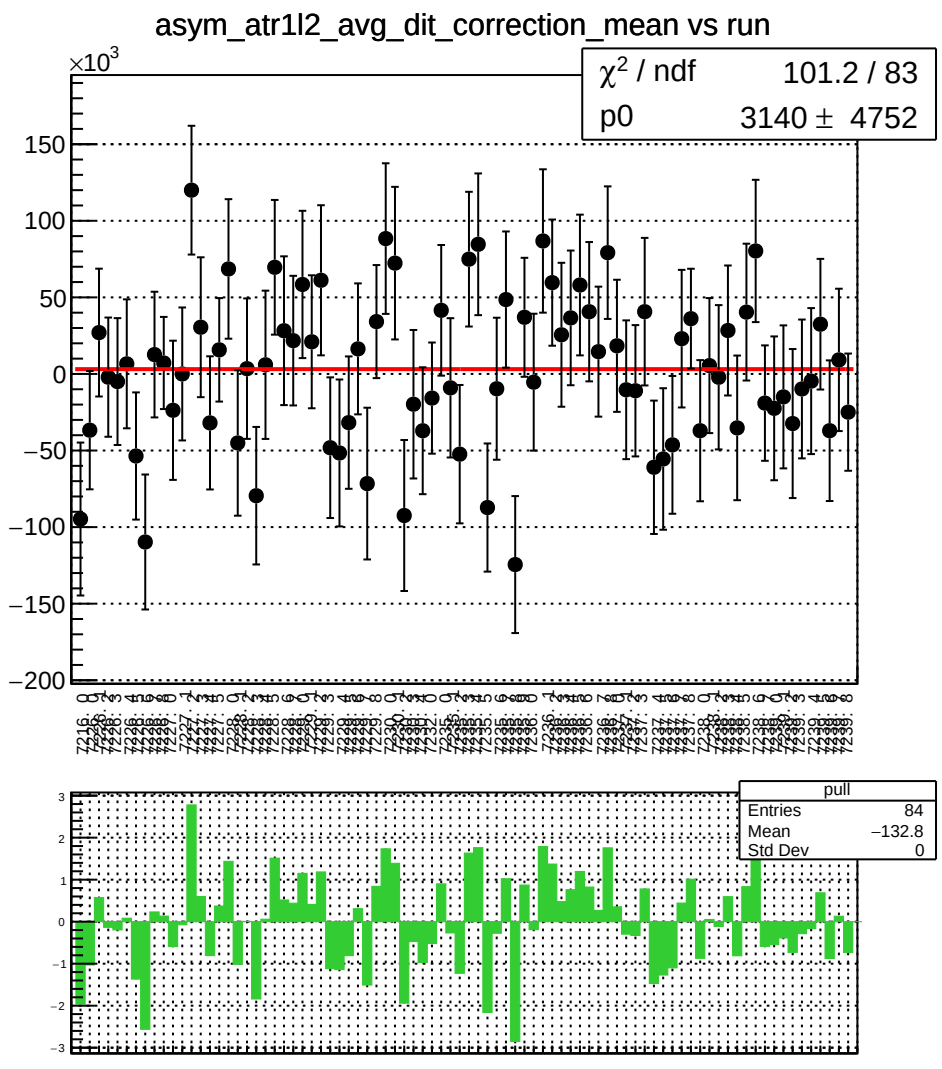

pull1D
Entries 84
Mean −0.007068
Std Dev 1.1

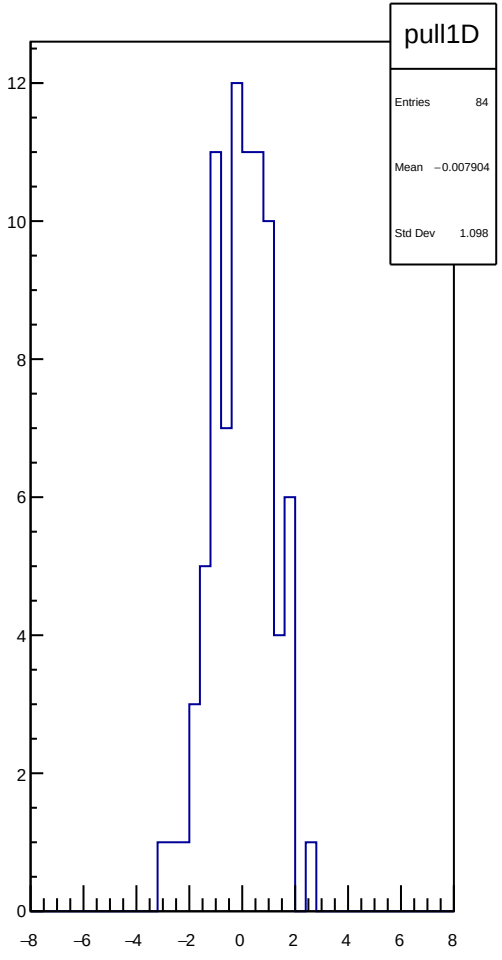

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ² / ndf 5987 / 83
p0 4624 ± 3.633
5400
5200
5000
4800
4600
4400
4200
4000
3800

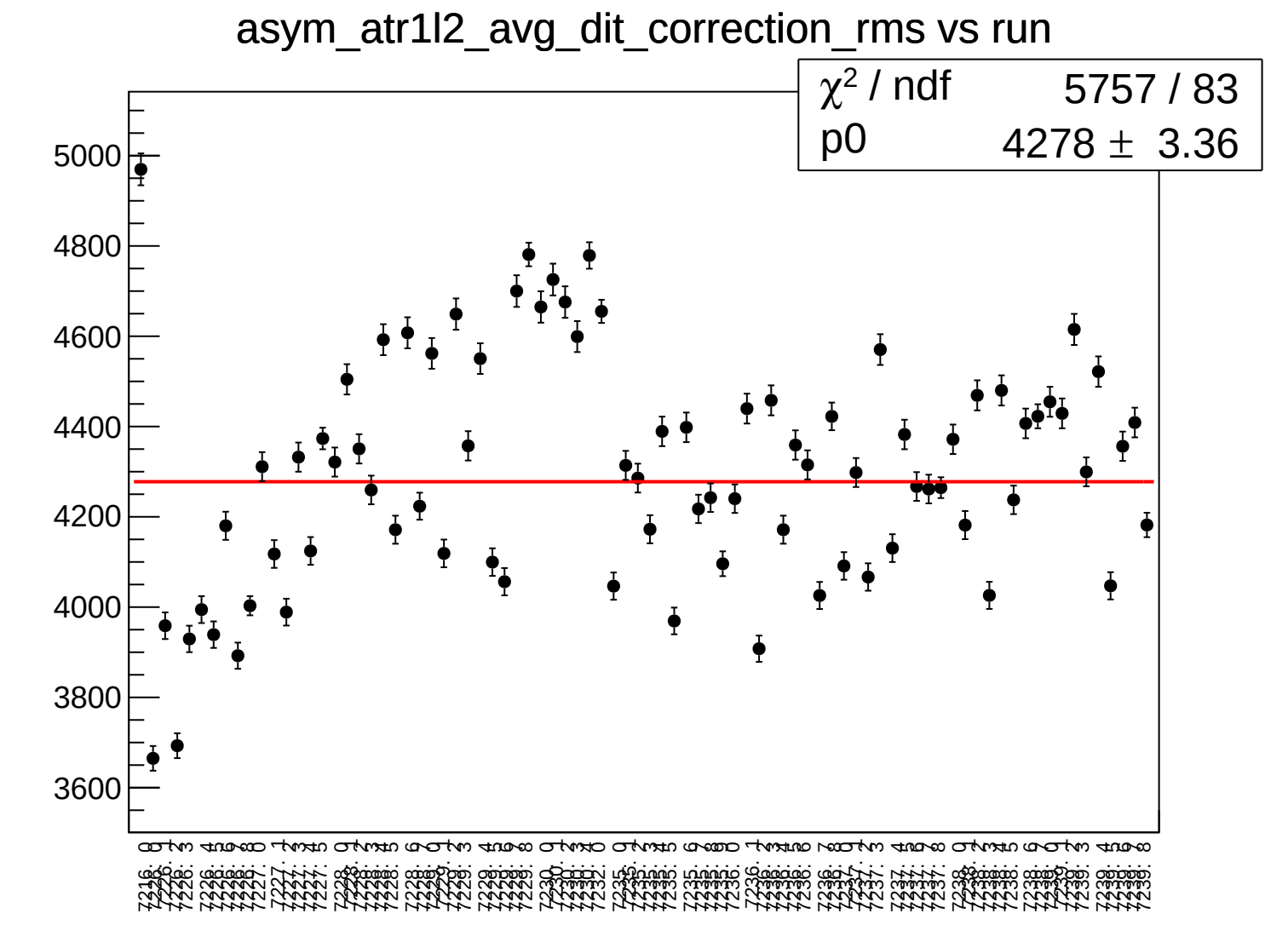

dit_asym_atr1l2_avg_mean vs run
χ² / ndf 111.7 / 83
p0 −3711 ± 1983
pull
Entries 84
Mean 704.7
Std Dev 0

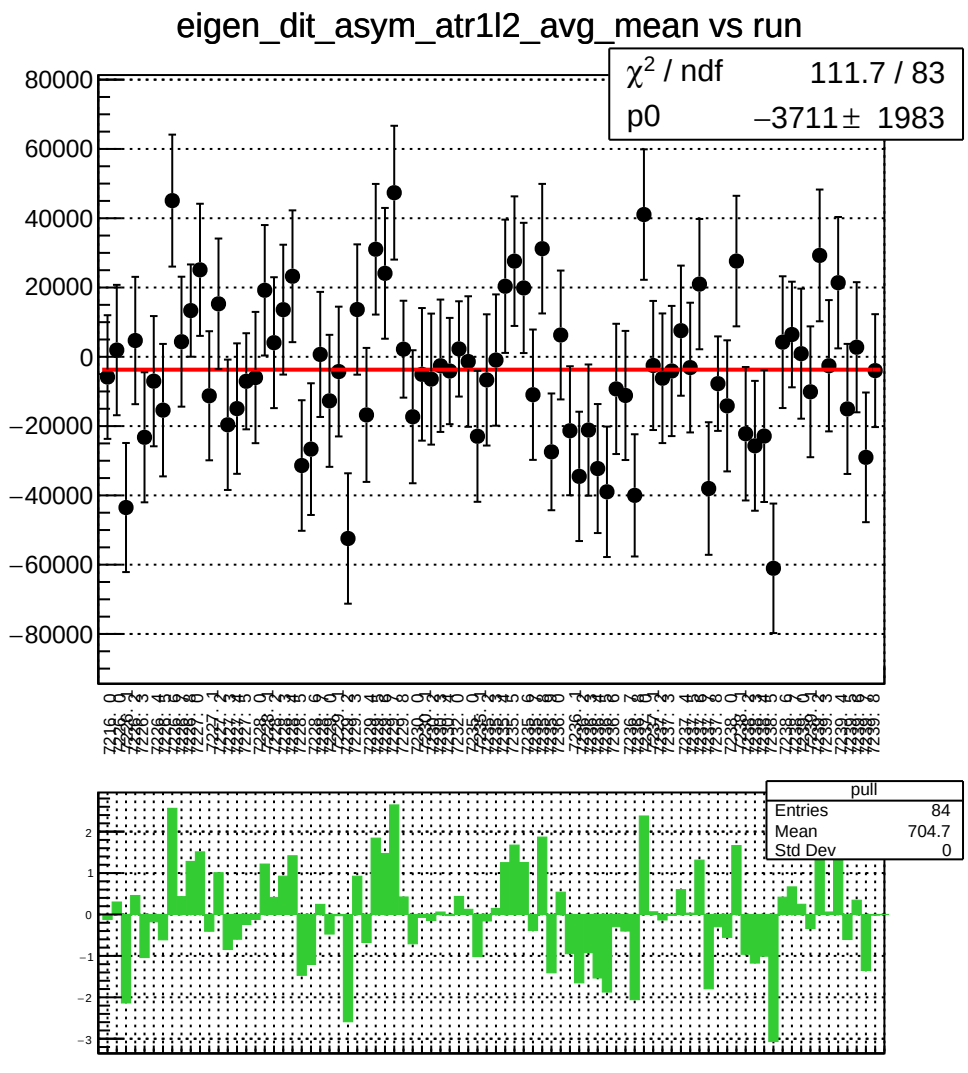

pull1D
Entries 84
Mean −0.004302
Std Dev 1.153

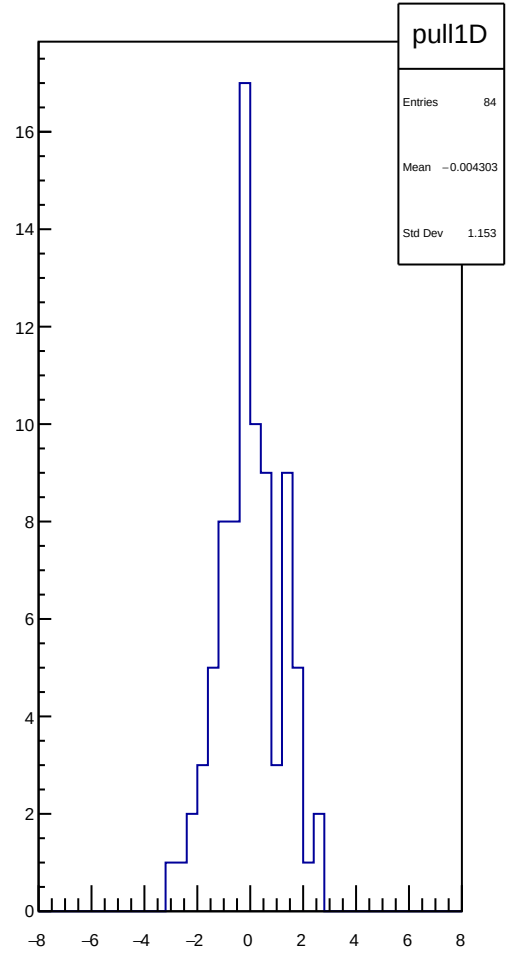

dit_asym_atr1l2_avg_rms vs run
χ² / ndf 142 / 83
p0 1788 ± 1.402
1860
1840
1820
1800
1780
1760
1740
1720

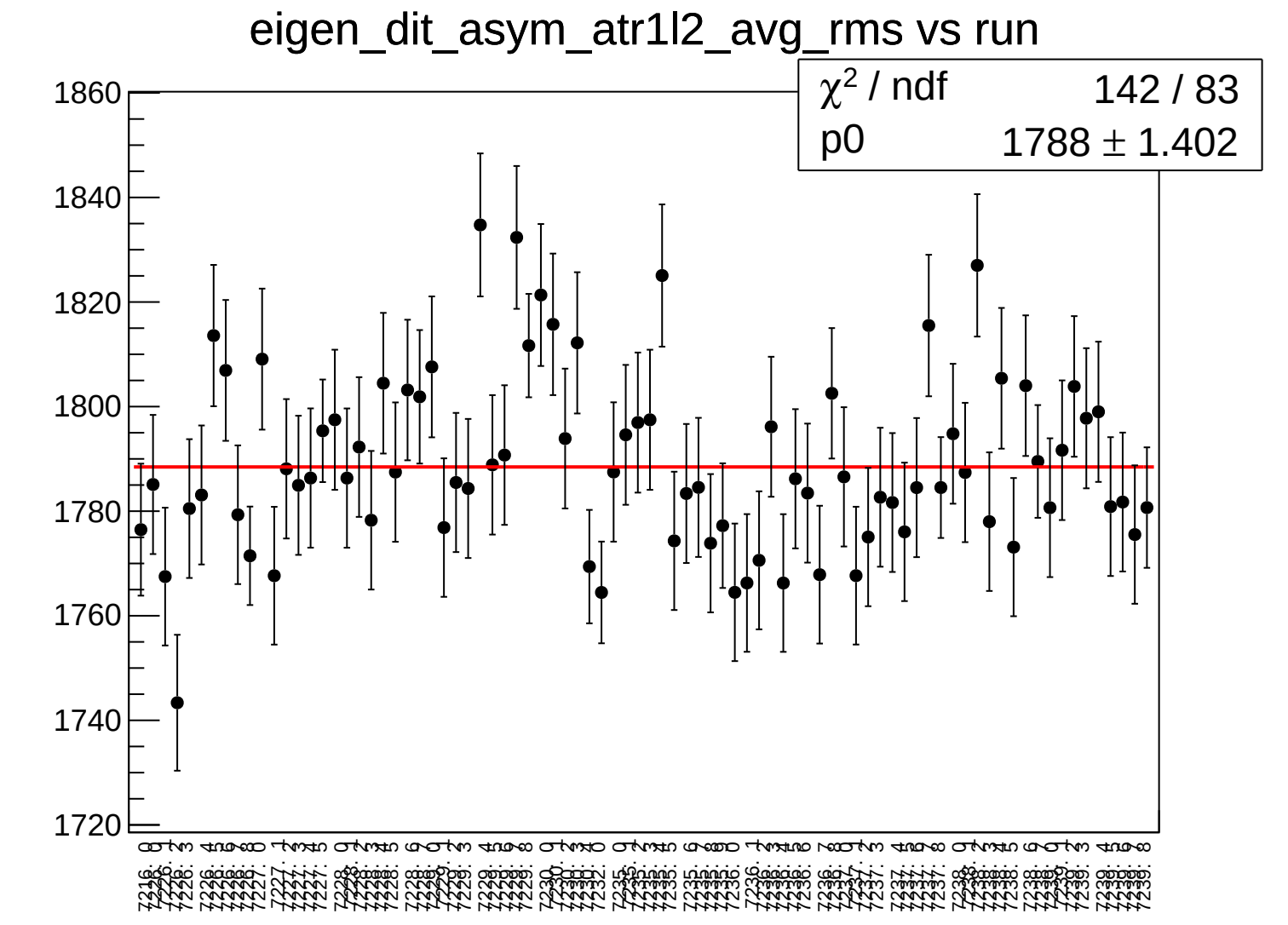

asym_atr1l2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 101.2 / 83
p0 3140 ± 4752
150
100
50
0
−50
−100
−150
−200
pull
Entries 84
Mean −132.8
Std Dev 0
3
2
1
0
−1
−2
−3

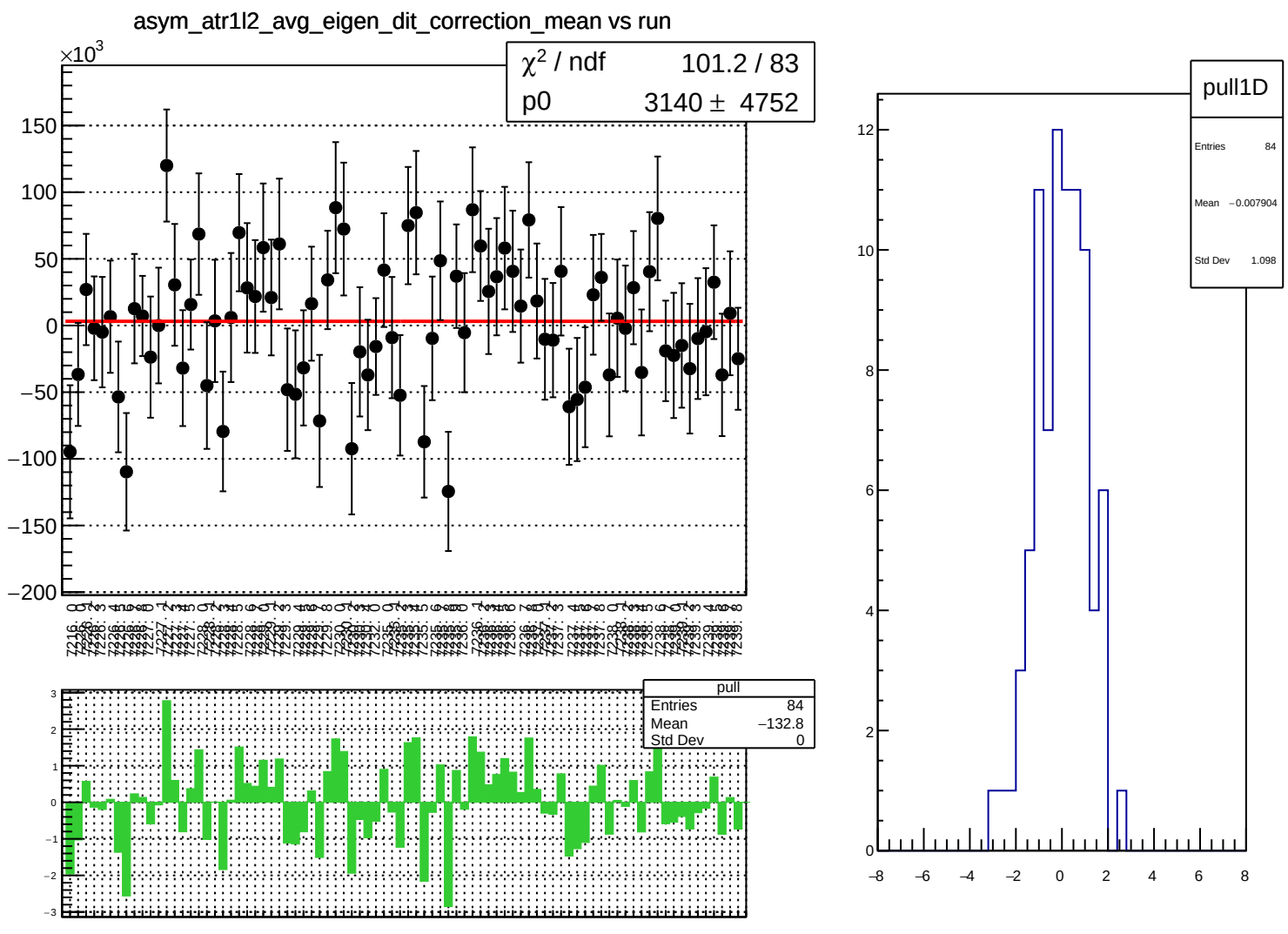

pull1D
Entries 84
Mean −0.007904
Std Dev 1.098
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

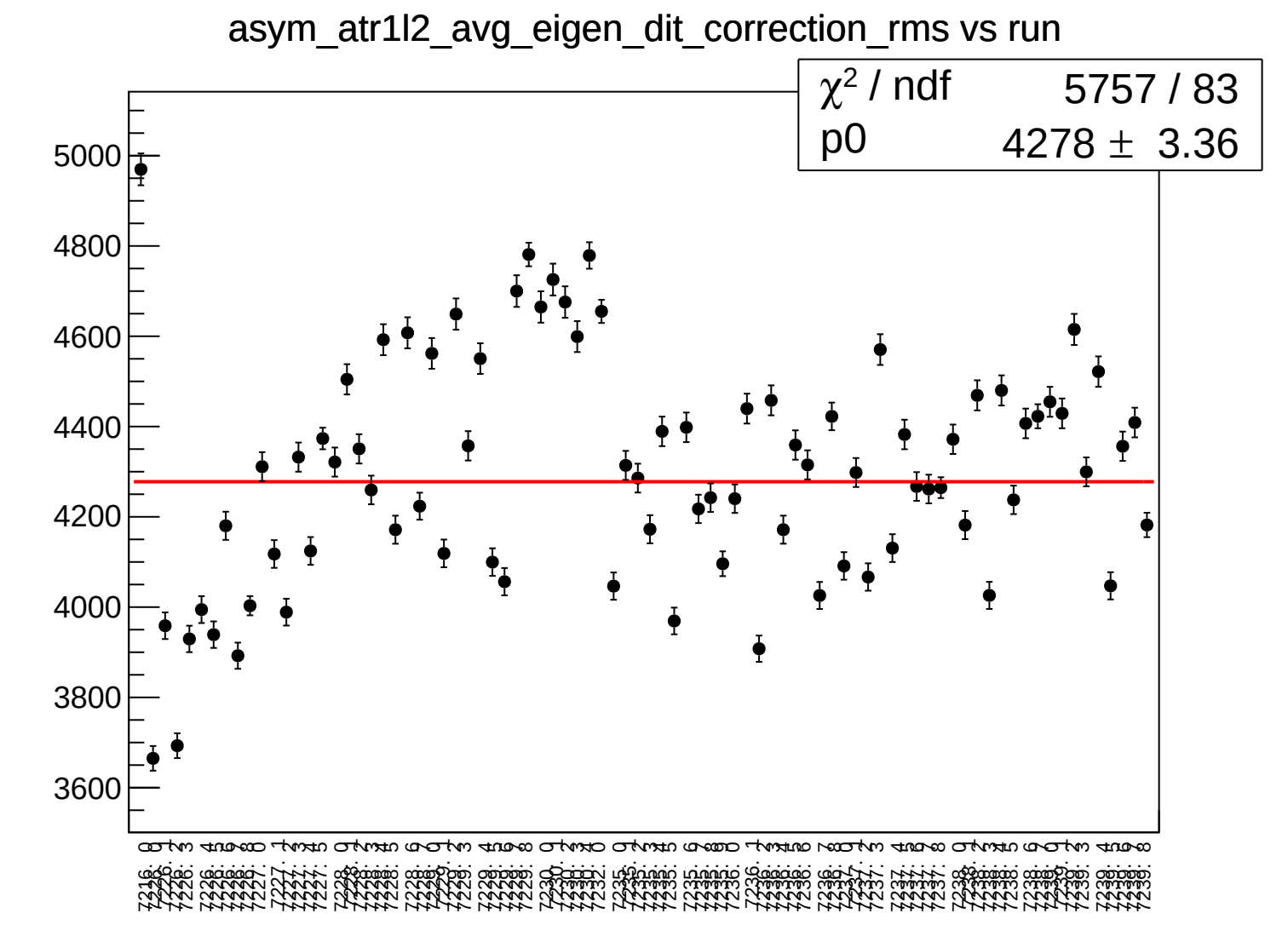

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 5757 / 83
p0 4278 ± 3.36
5000
4800
4600
4400
4200
4000
3800
3600

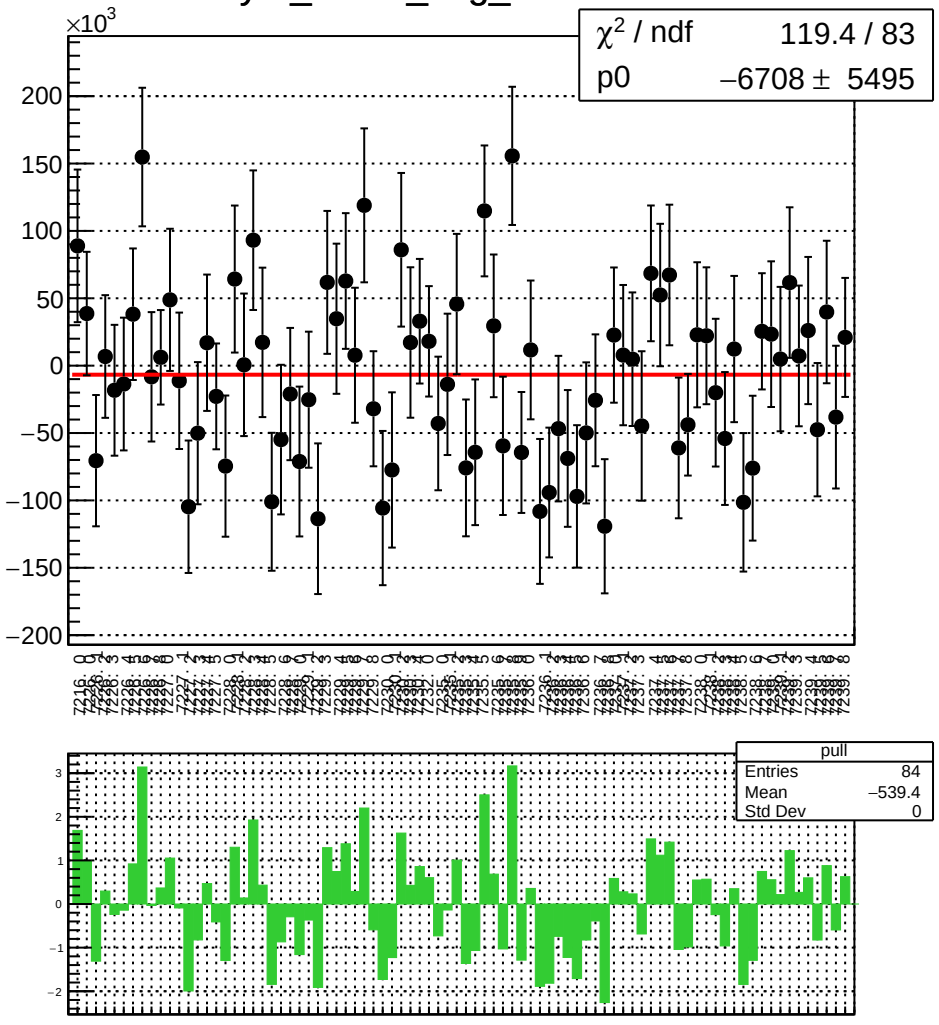

eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 111.7 / 83
p0 −3711 ± 1983
pull
Entries 84
Mean 704.7
Std Dev 0

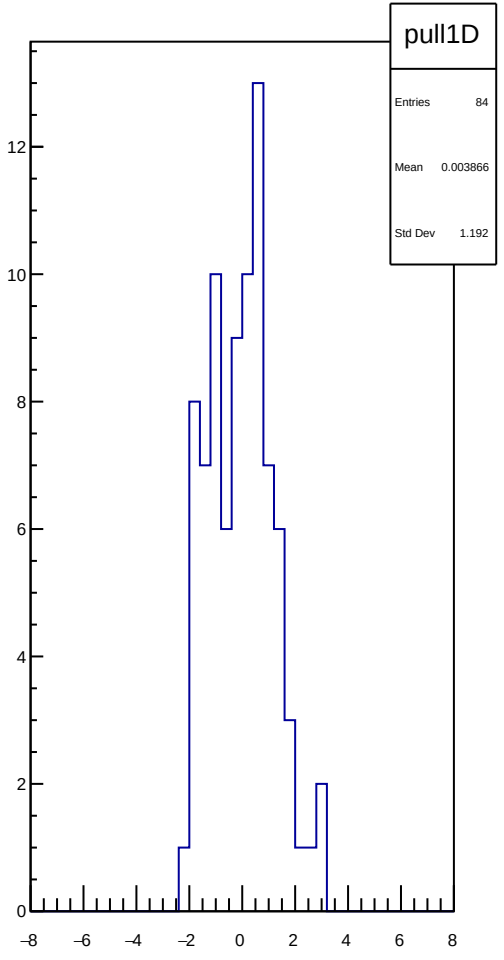

pull1D
Entries 84
Mean −0.004303
Std Dev 1.153

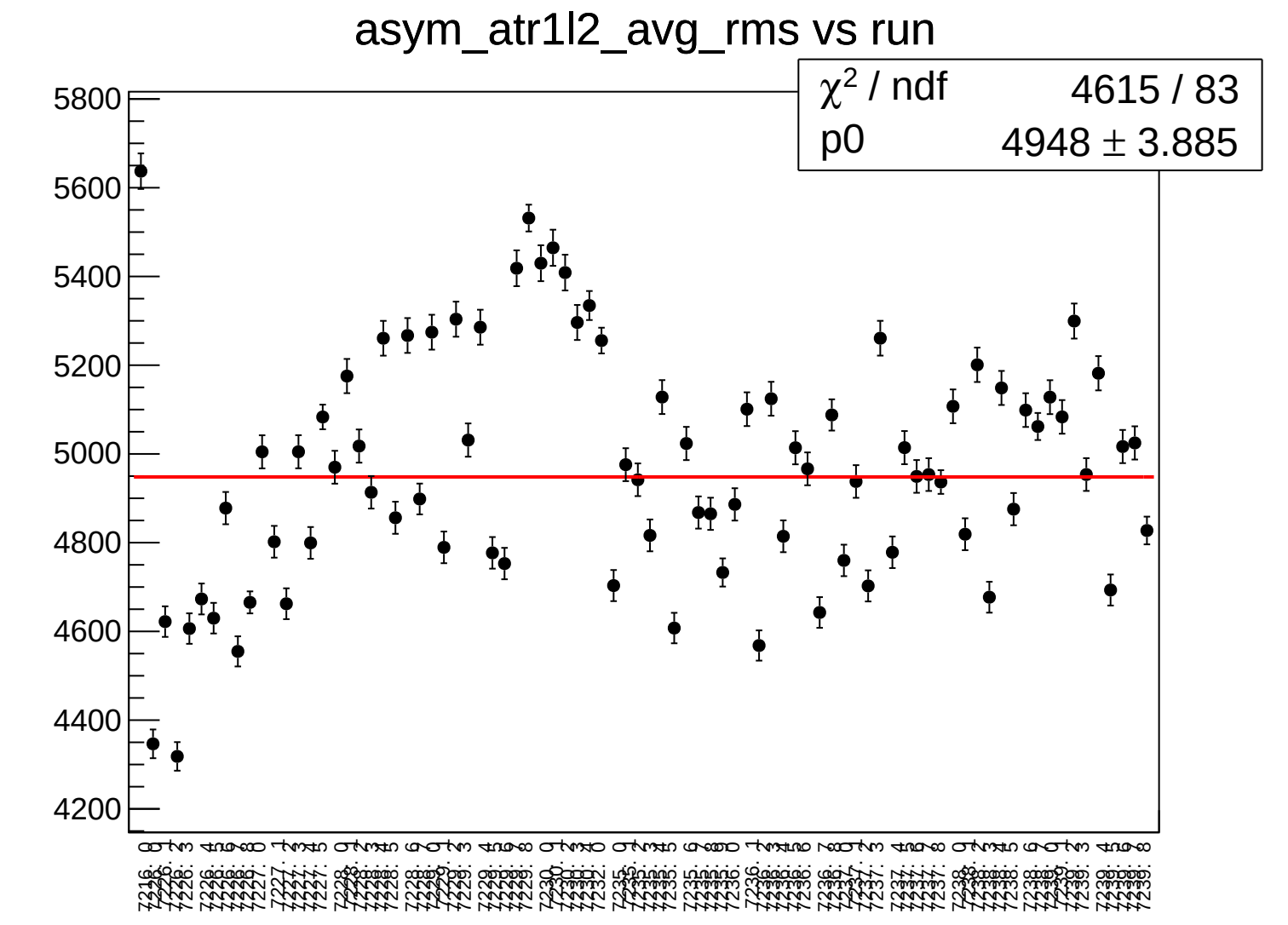

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 142 / 83
p0 1788 ± 1.402
1860
1840
1820
1800
1780
1760
1740
1720

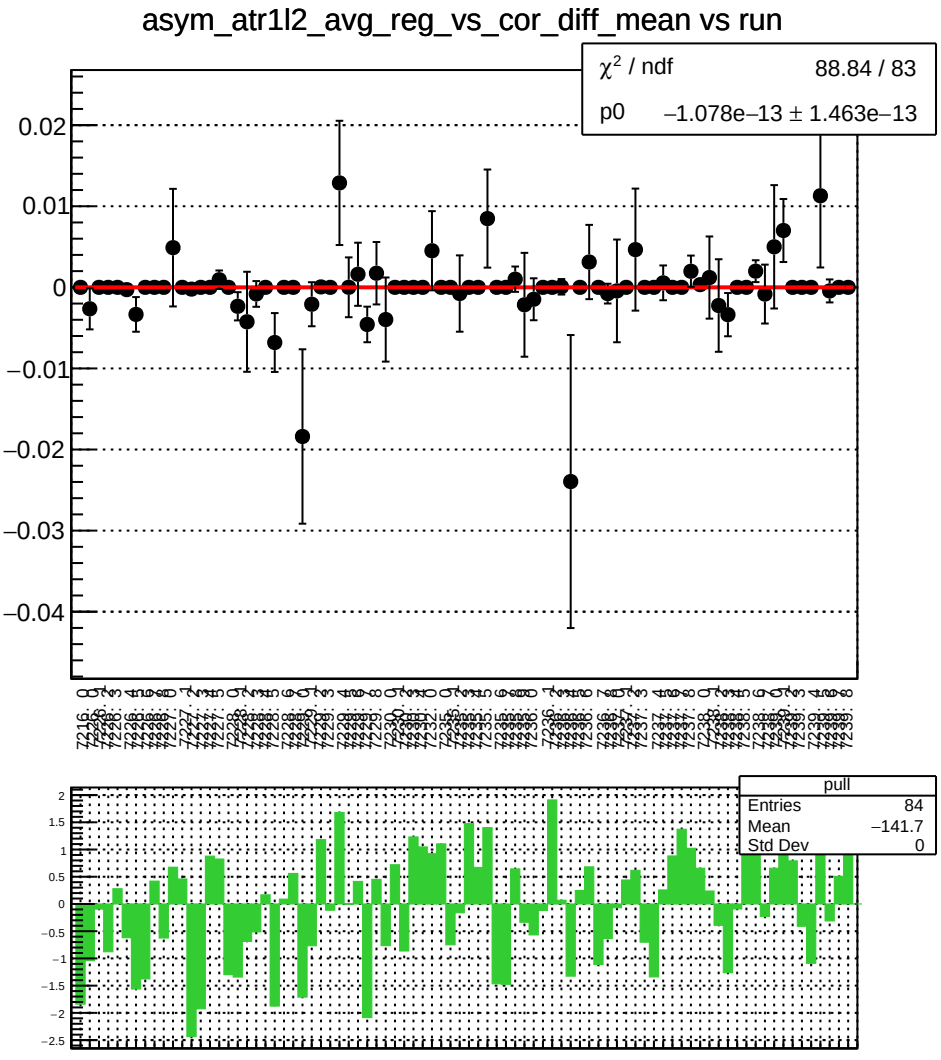

asym_atr1l2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 101.2 / 83
p0 3140 ± 4752
150
100
50
0
−50
−100
−150
−200
pull
Entries 84
Mean −132.8
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean −0.007904
Std Dev 1.098
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

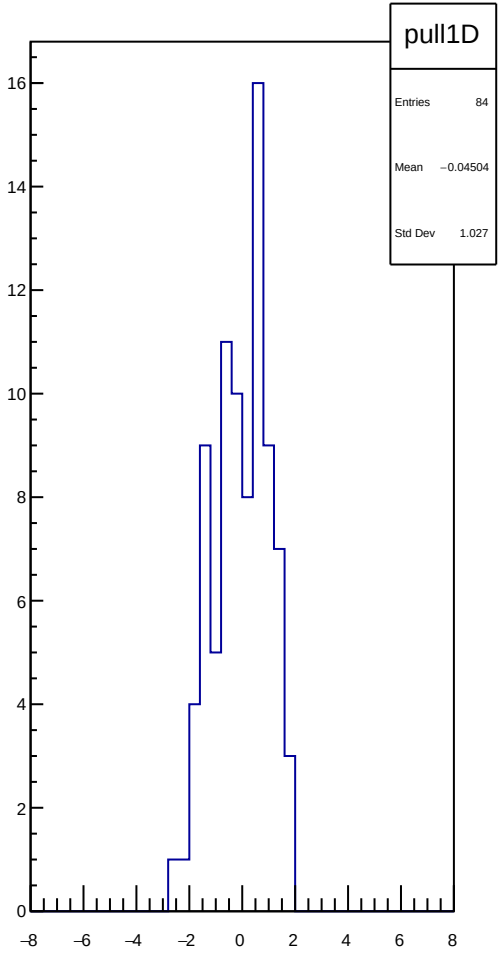

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 5757 / 83
p0 4278 ± 3.36
5000
4800
4600
4400
4200
4000
3800
3600

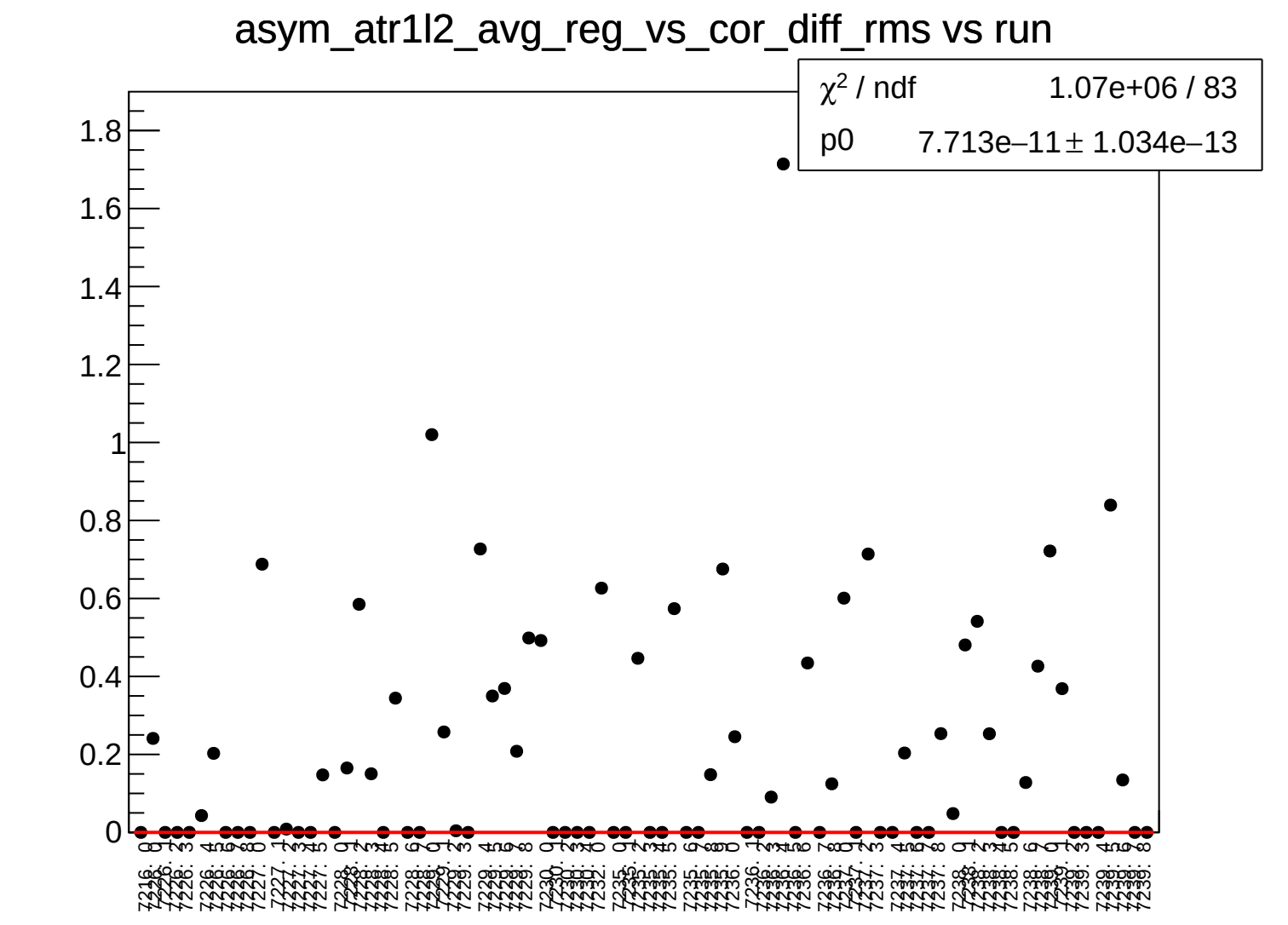

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 119.4 / 83
p0 −6708 ± 5495
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 84
Mean −539.4
Std Dev 0
3
2
1
0
−1
−2

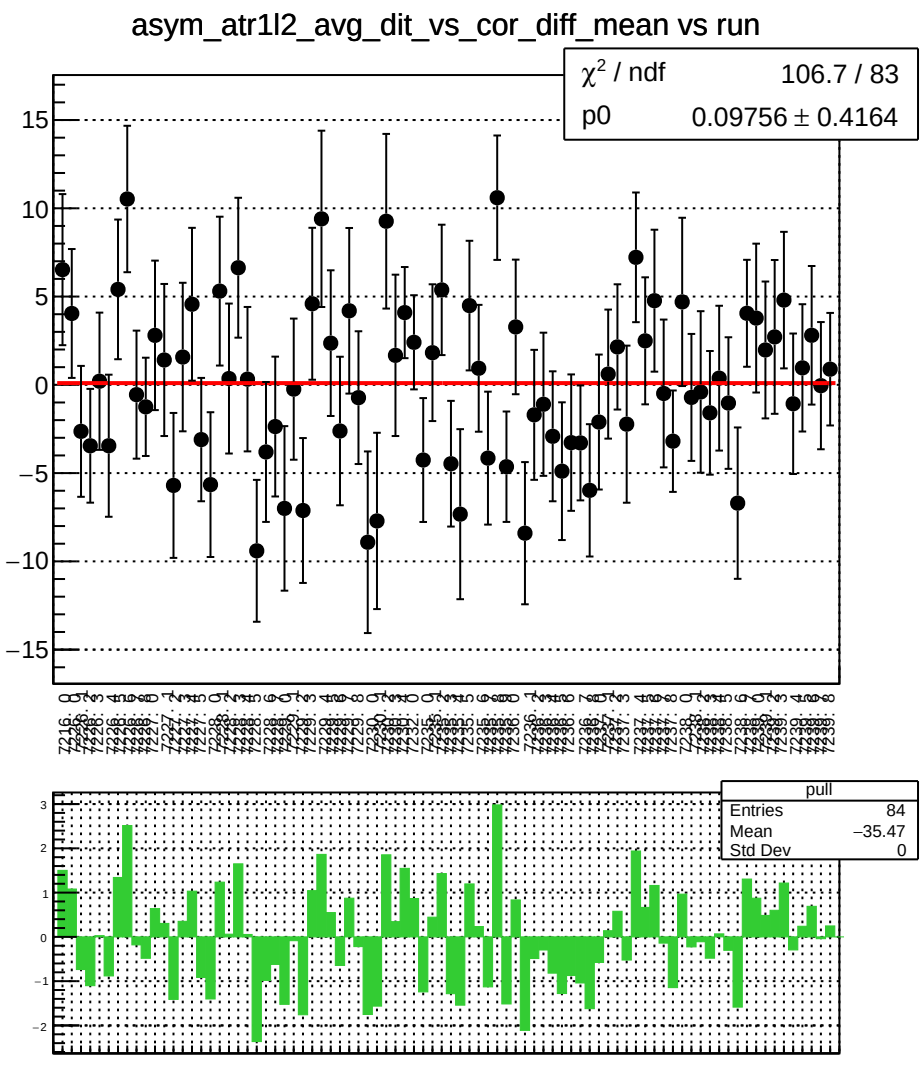

pull1D
Entries 84
Mean 0.003866
Std Dev 1.192
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

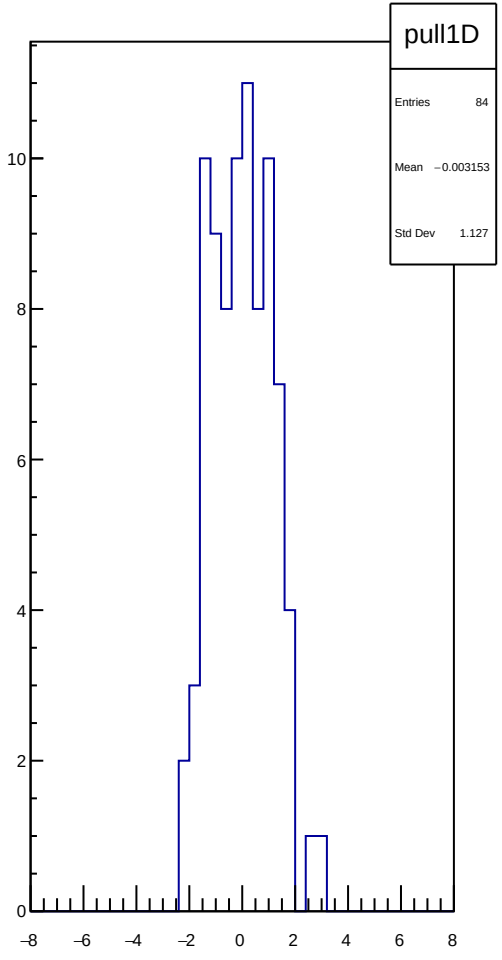

asym_atr1l2_avg_rms vs run
χ² / ndf 4615 / 83
p0 4948 ± 3.885
5800
5600
5400
5200
5000
4800
4600
4400
4200

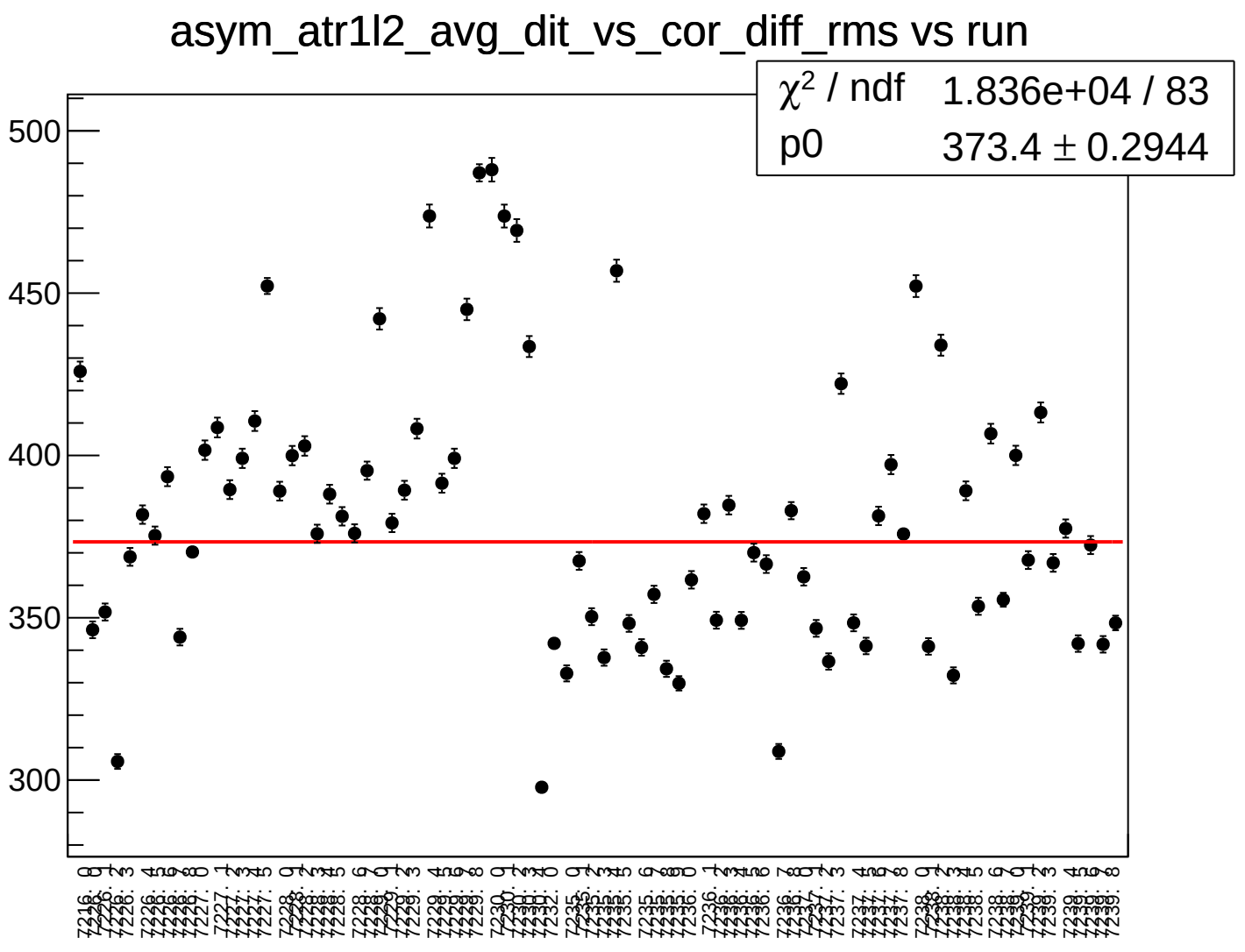

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 88.84 / 83
p0 −1.078e−13 ± 1.463e−13
pull
Entries 84
Mean −141.7
Std Dev 0

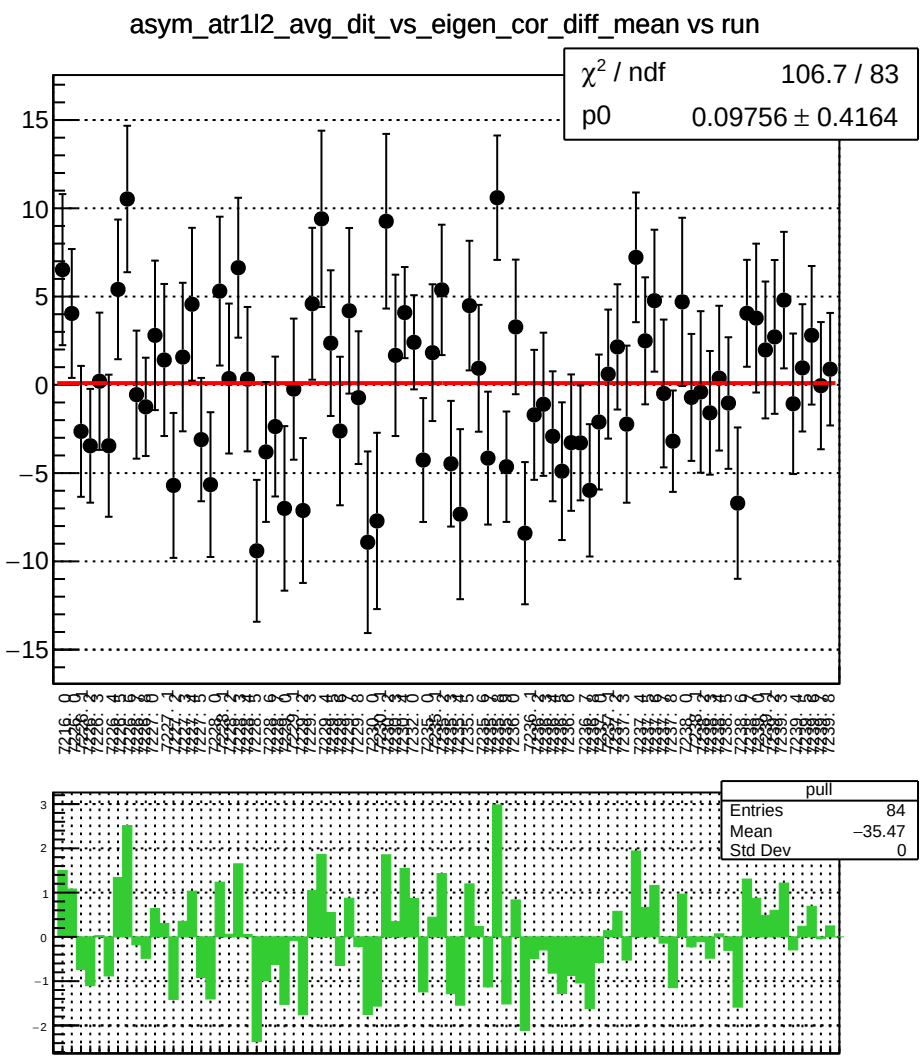

pull1D
Entries 84
Mean −0.04504
Std Dev 1.027

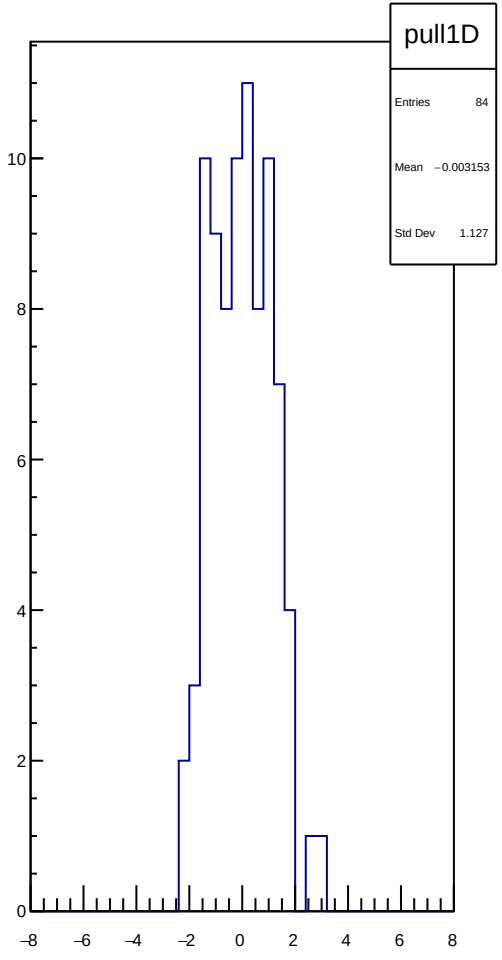

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.07e+06 / 83
p0 7.713e−11 ± 1.034e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

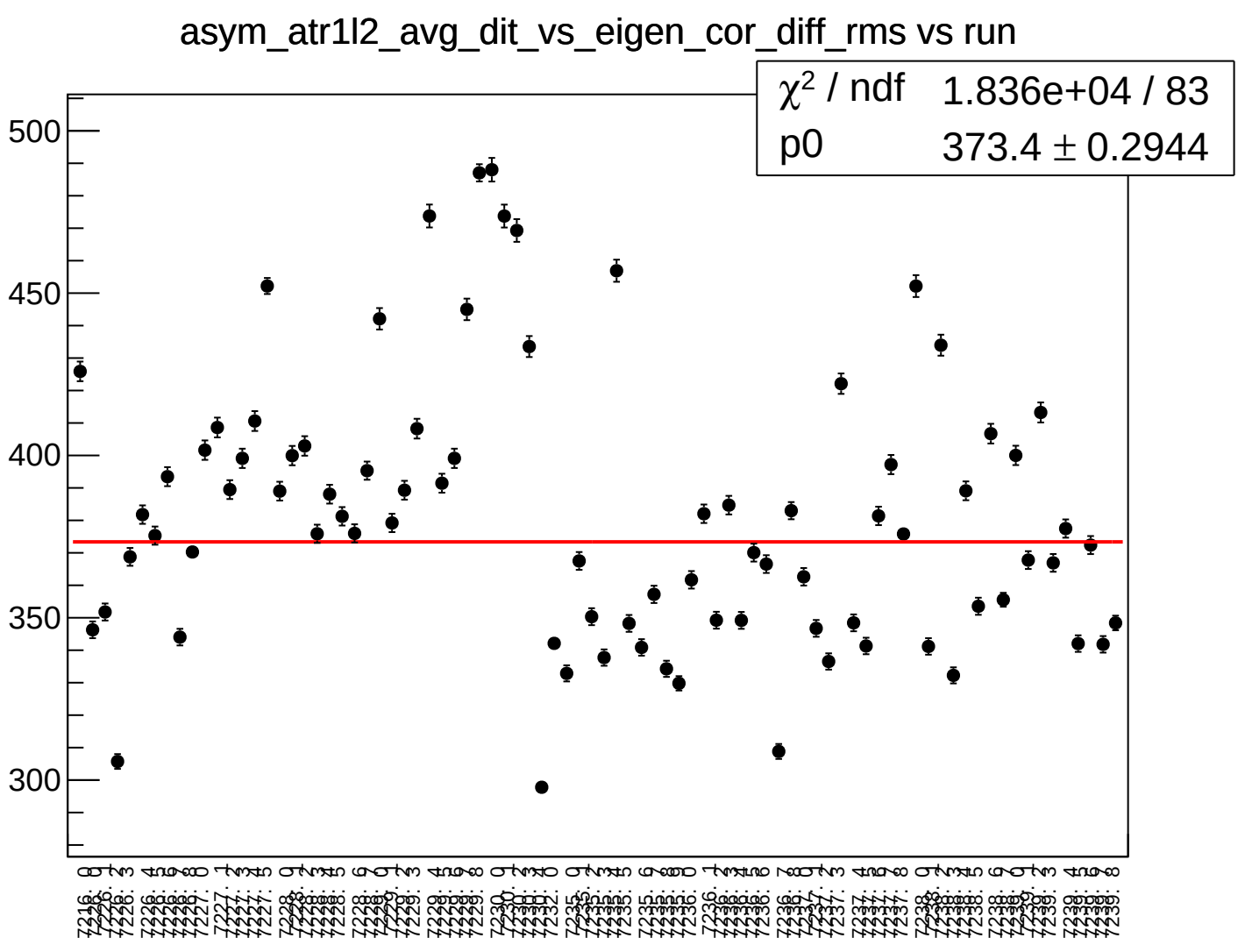

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 106.7 / 83
p0 0.09756 ± 0.4164
pull
Entries 84
Mean −35.47
Std Dev 0

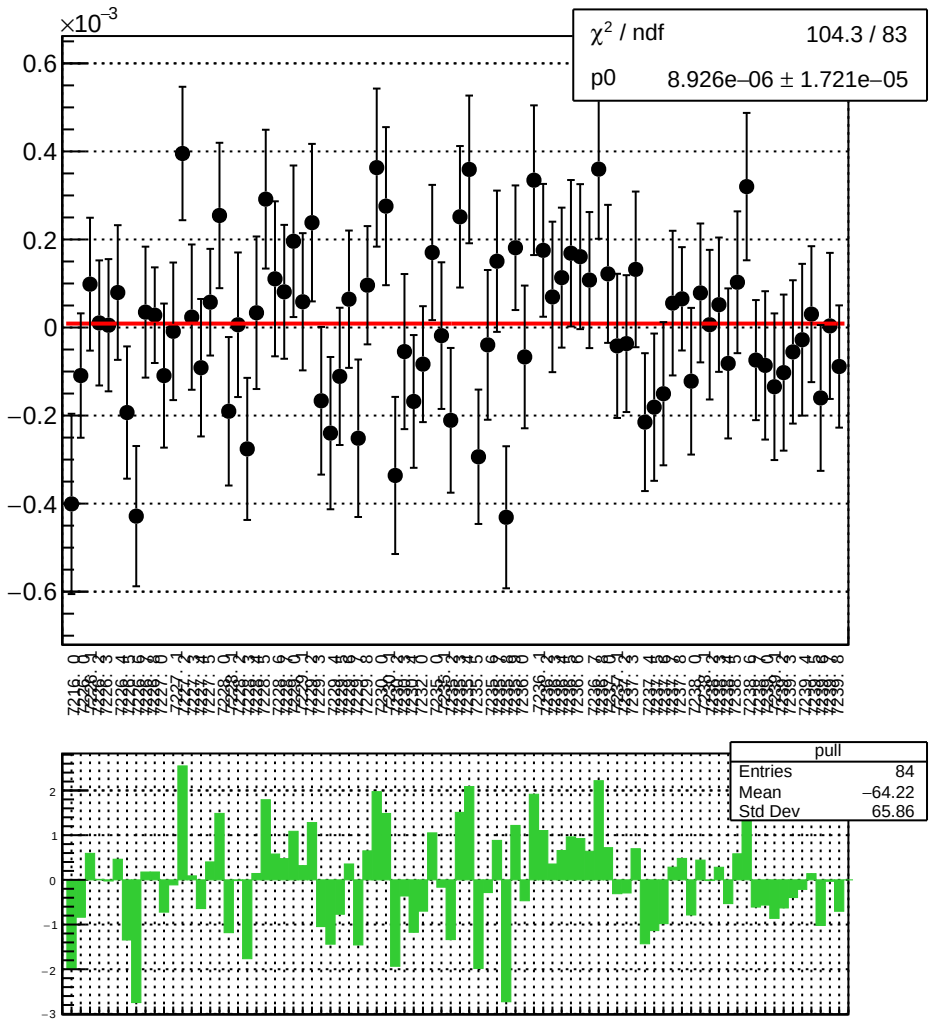

pull1D
Entries 84
Mean −0.003153
Std Dev 1.127

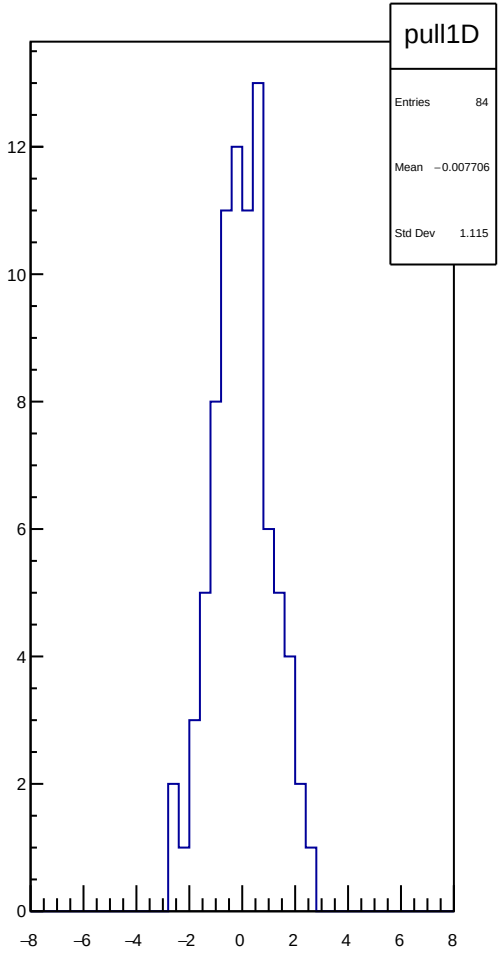

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.836e+04 / 83
p0 373.4 ± 0.2944
500
450
400
350
300

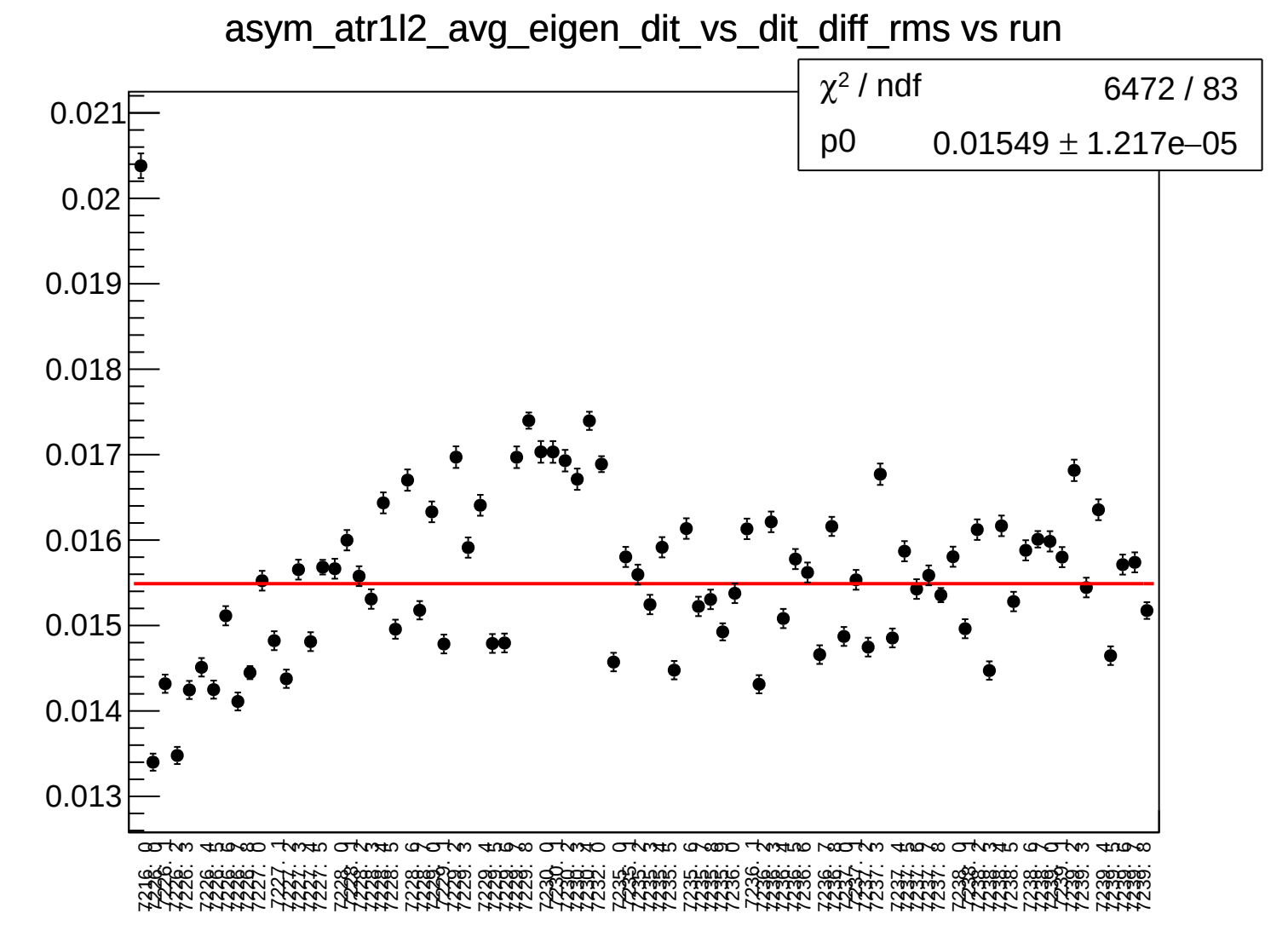

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.7 / 83
p0 0.09756 ± 0.4164
pull
Entries 84
Mean −35.47
Std Dev 0

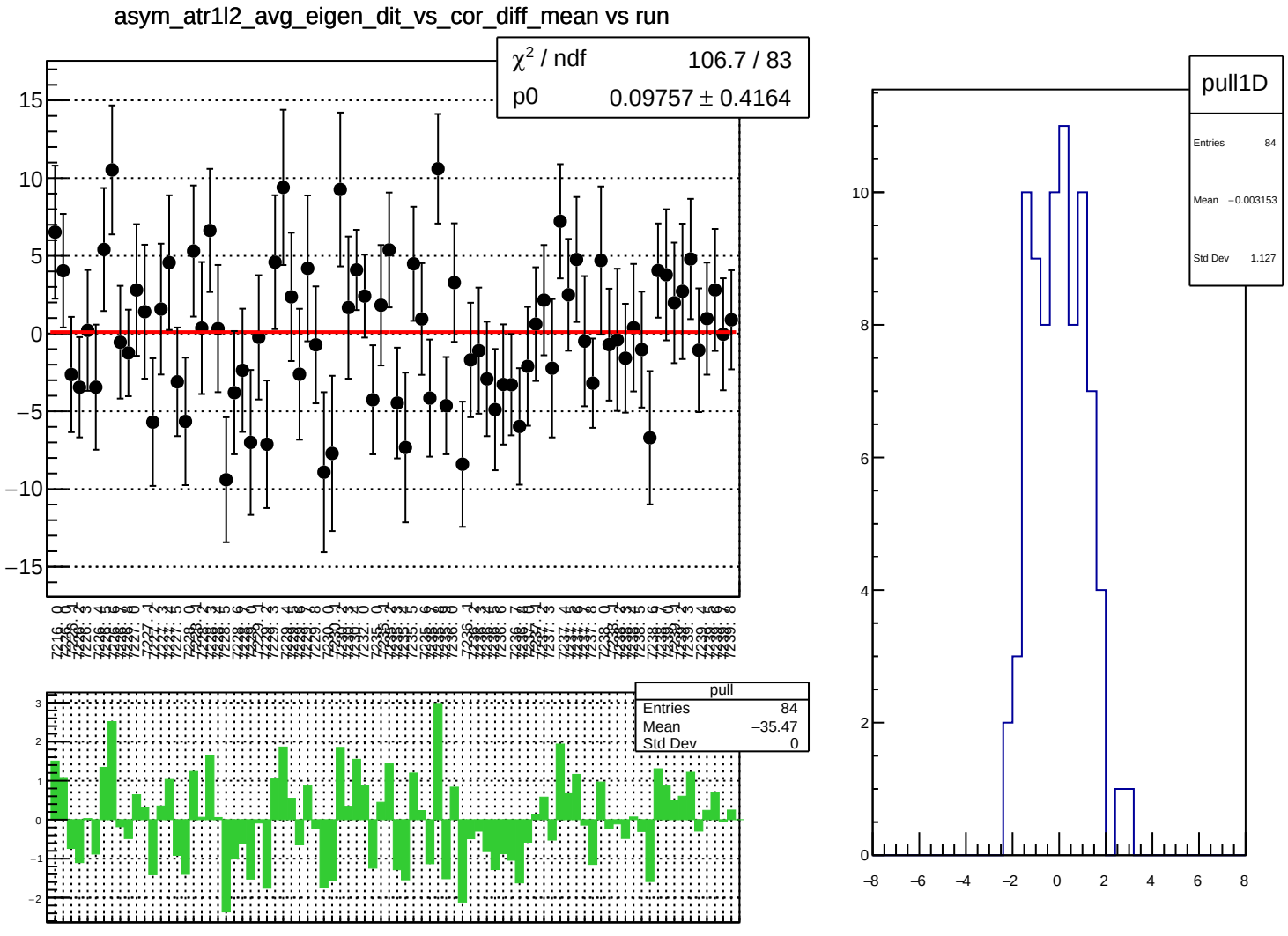

pull1D
Entries 84
Mean −0.003153
Std Dev 1.127

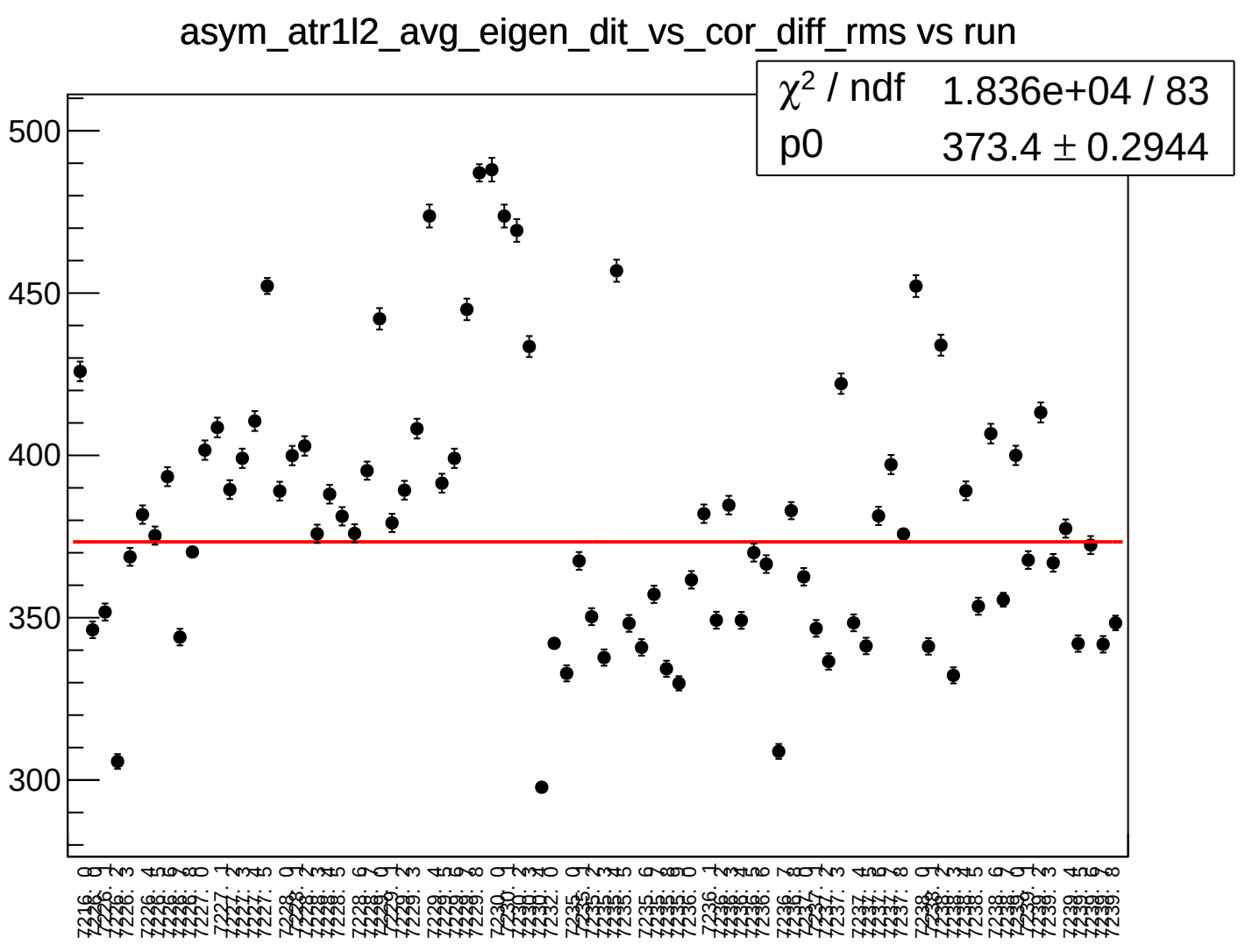

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.836e+04 / 83
p0 373.4 ± 0.2944
500
450
400
350
300

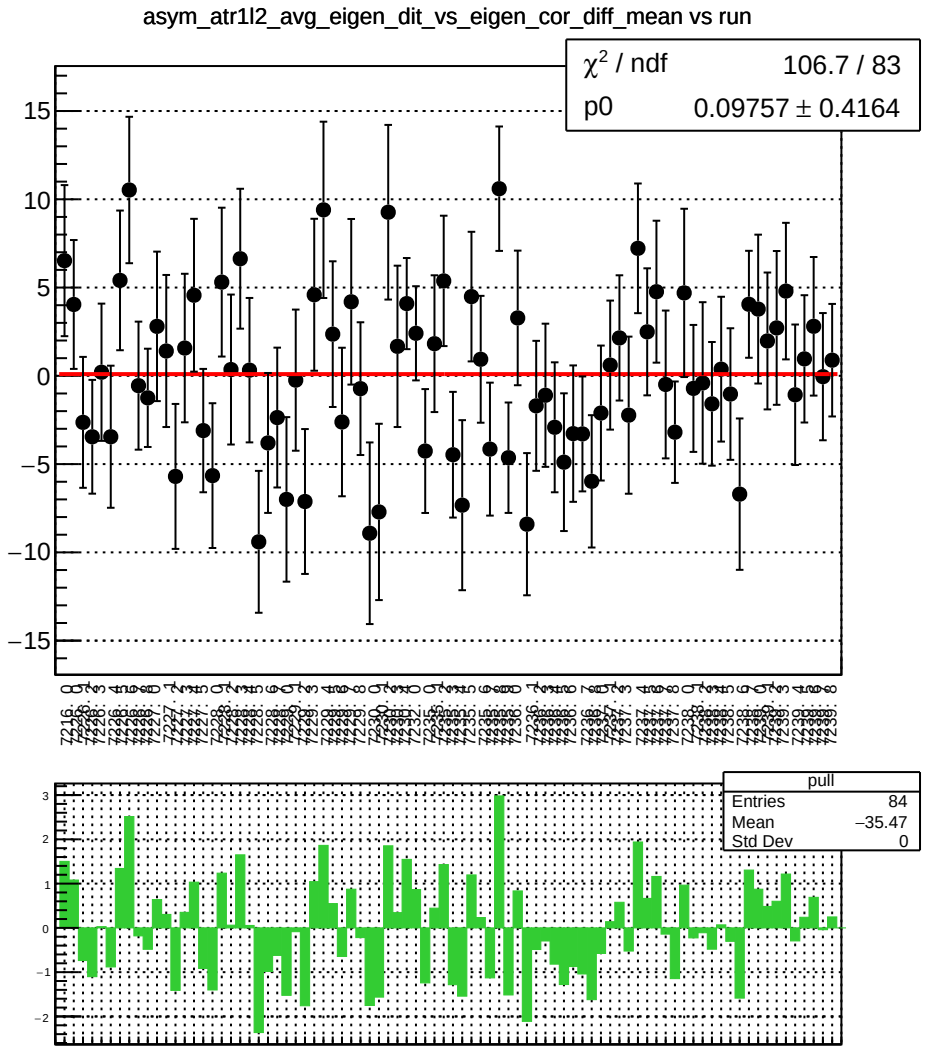

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 104.3 / 83
p0 8.926e−06 ± 1.721e−05
pull
Entries 84
Mean −64.22
Std Dev 65.86

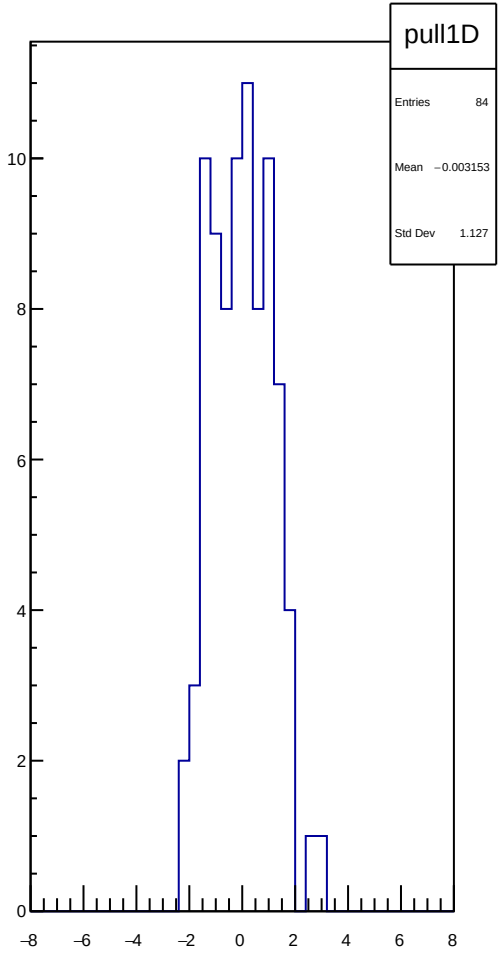

pull1D
Entries 84
Mean −0.007706
Std Dev 1.115

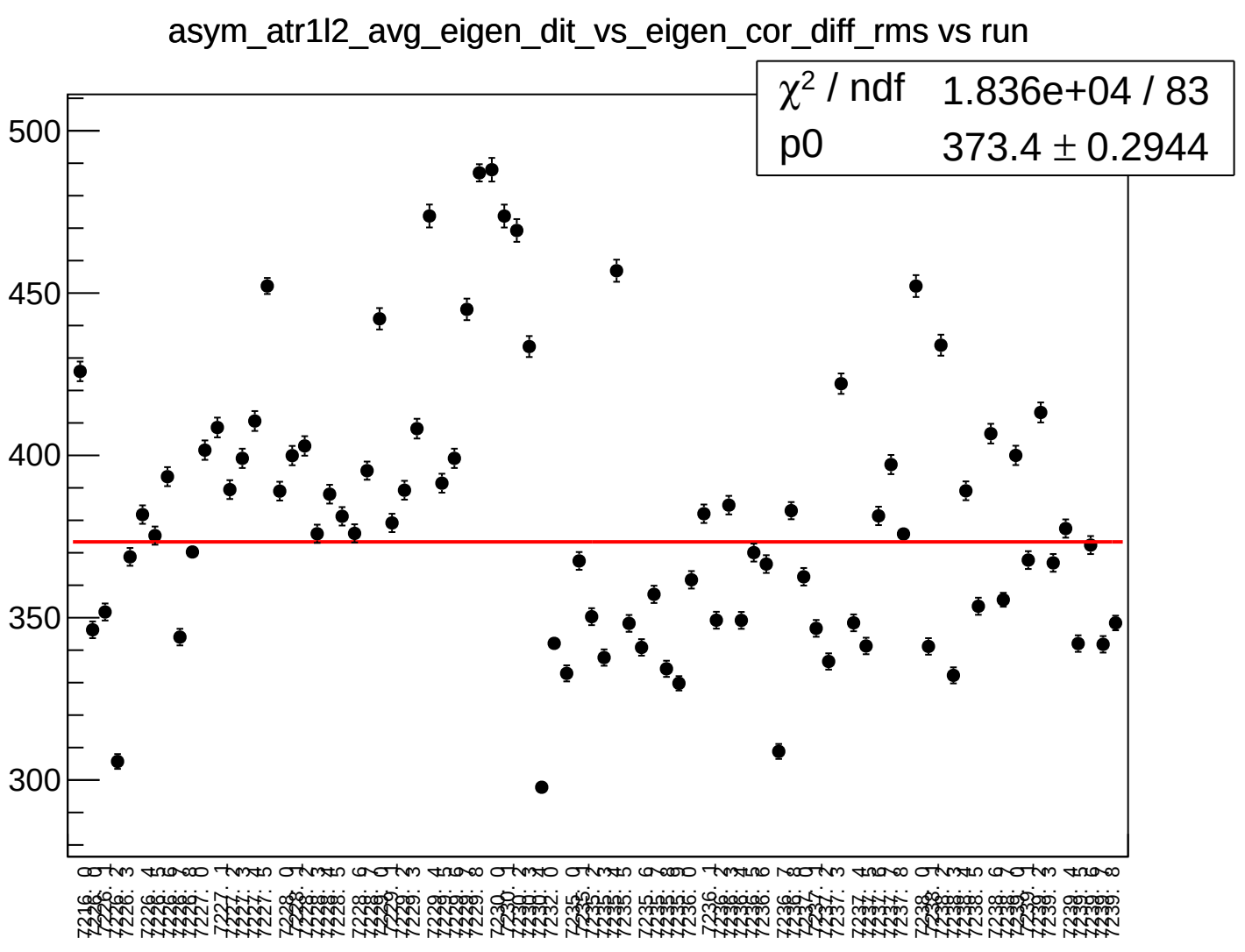

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6472 / 83
p0 0.01549 ± 1.217e−05
0.021
0.02
0.019
0.018
0.017
0.016
0.015
0.014
0.013

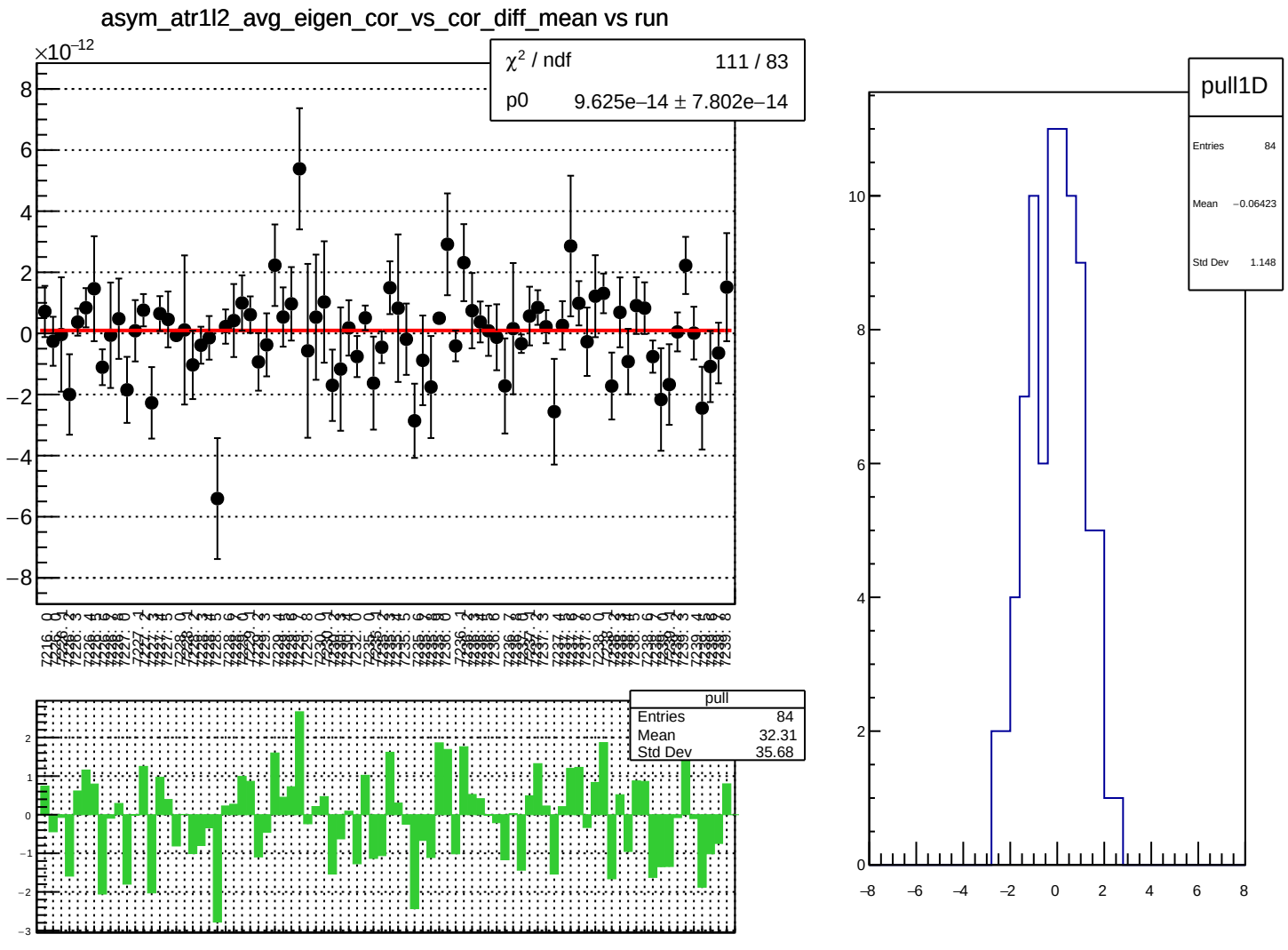

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 106.7 / 83
p0 0.09757 ± 0.4164
pull
Entries 84
Mean −35.47
Std Dev 0
pull1D
Entries 84
Mean −0.003153
Std Dev 1.127

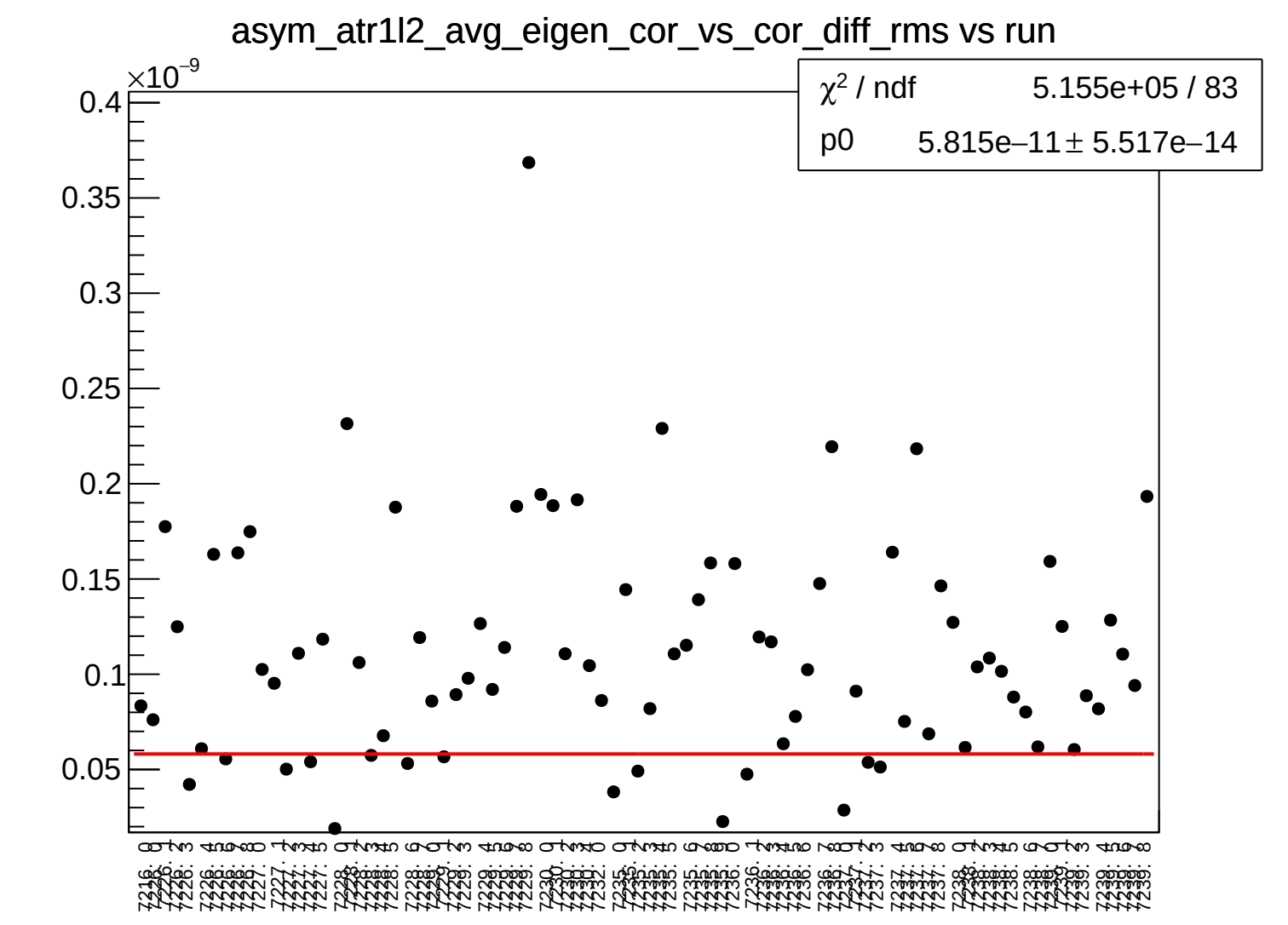

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.836e+04 / 83
p0 373.4 ± 0.2944
500
450
400
350
300

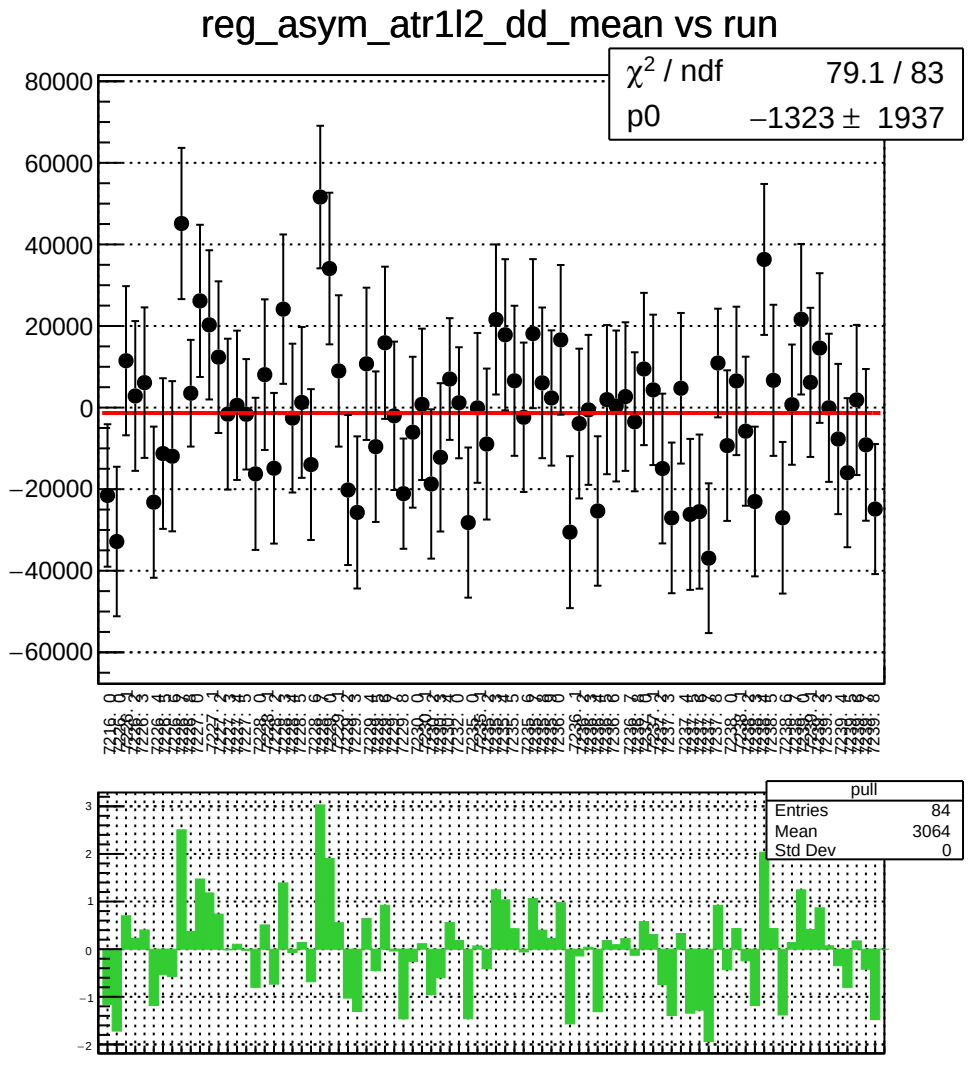

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.7 / 83
p0 0.09757 ± 0.4164
pull
Entries 84
Mean −35.47
Std Dev 0

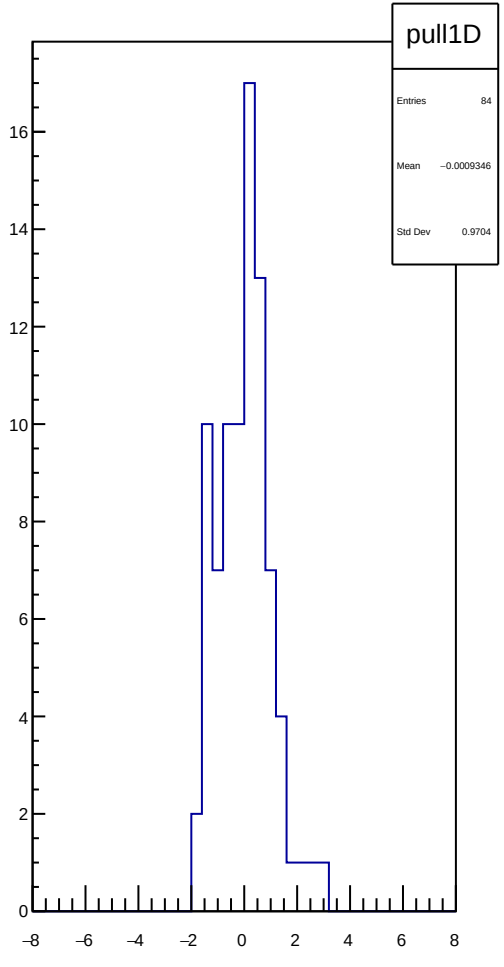

pull1D
Entries 84
Mean −0.003153
Std Dev 1.127

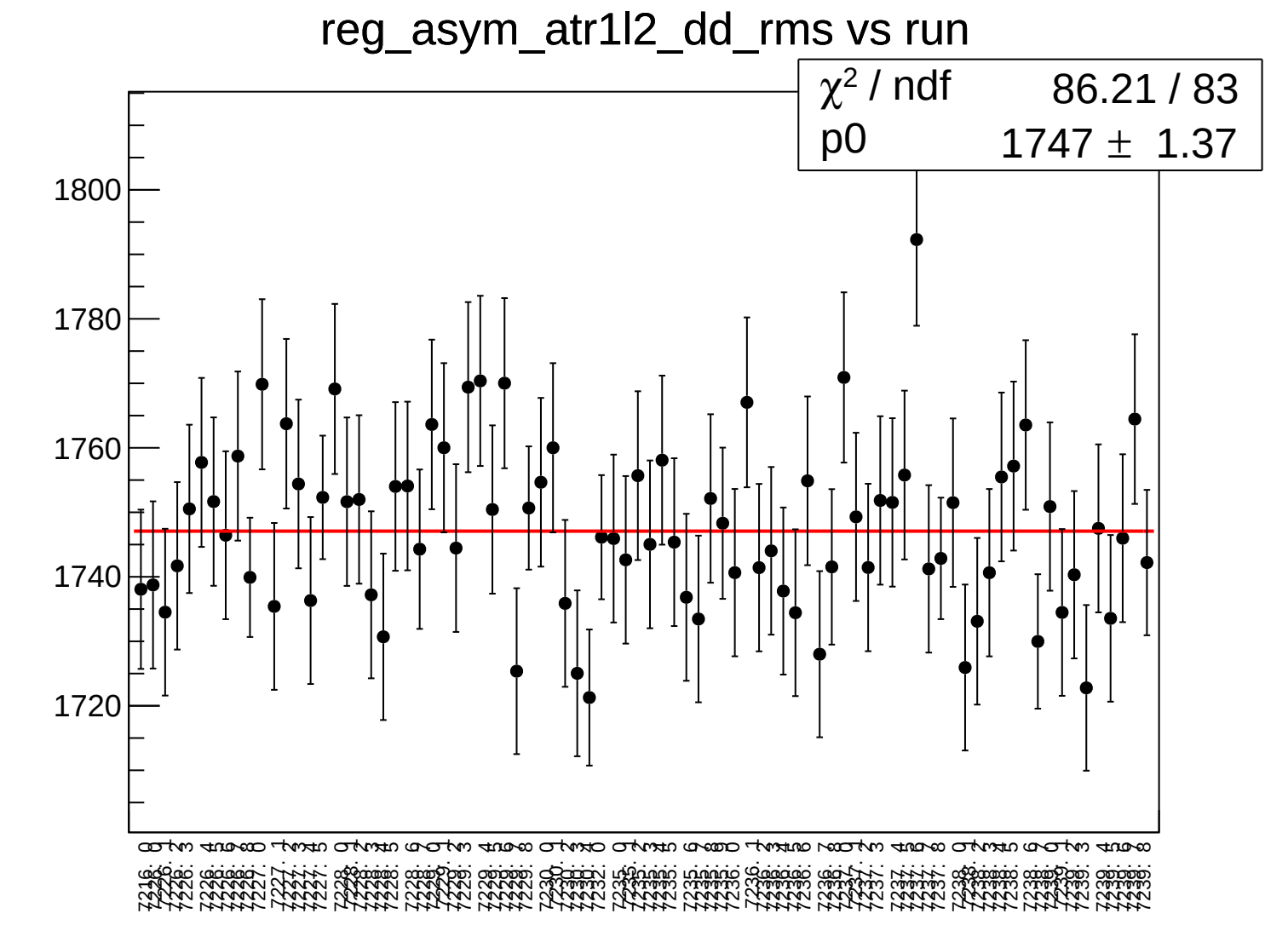

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.836e+04 / 83
p0 373.4 ± 0.2944
500
450
400
350
300

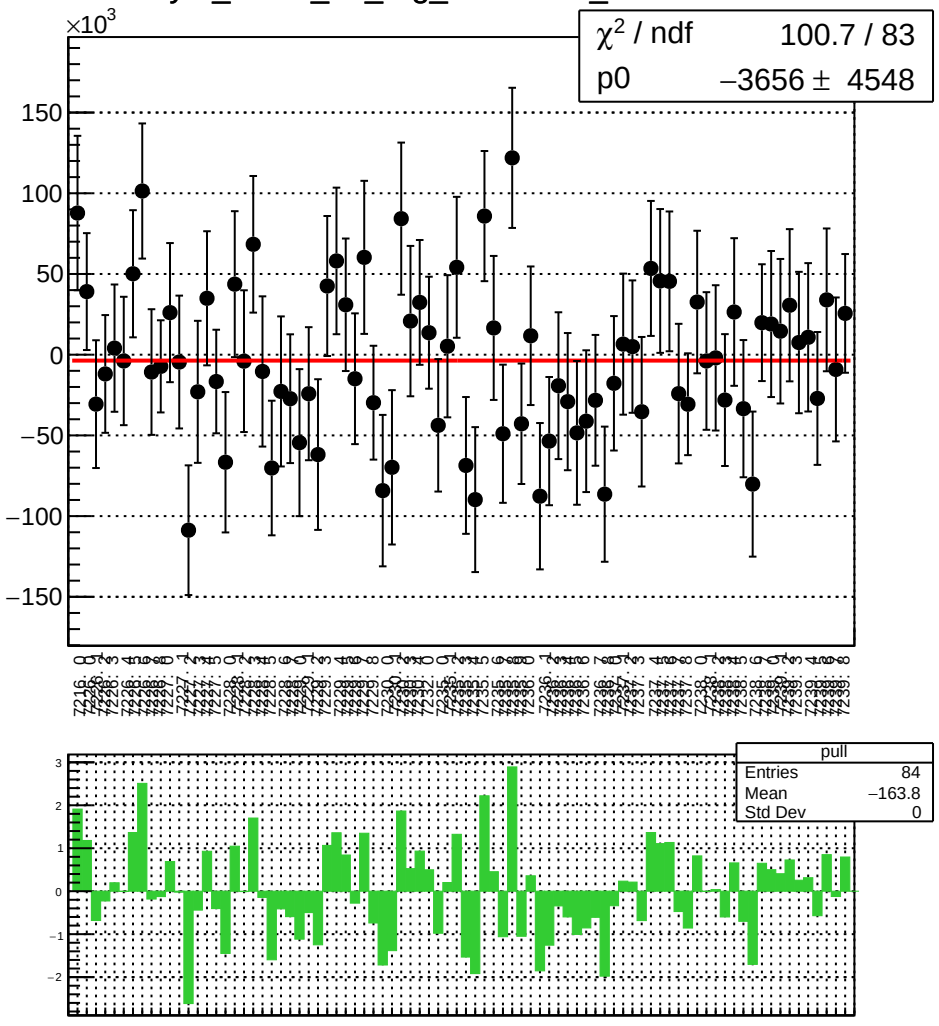

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 111 / 83
p0 9.625e−14 ± 7.802e−14
pull
Entries 84
Mean 32.31
Std Dev 35.68
pull1D
Entries 84
Mean −0.06423
Std Dev 1.148

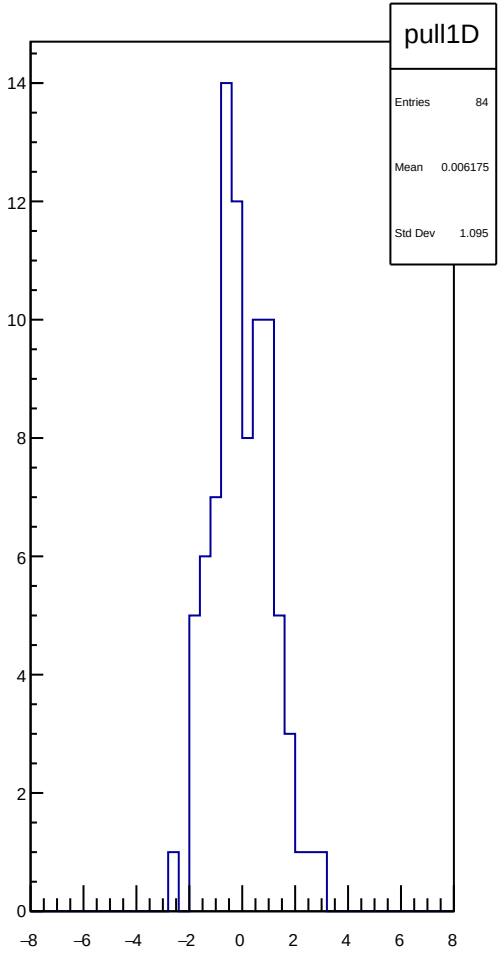

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.155e+05 / 83
p0 5.815e−11 ± 5.517e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

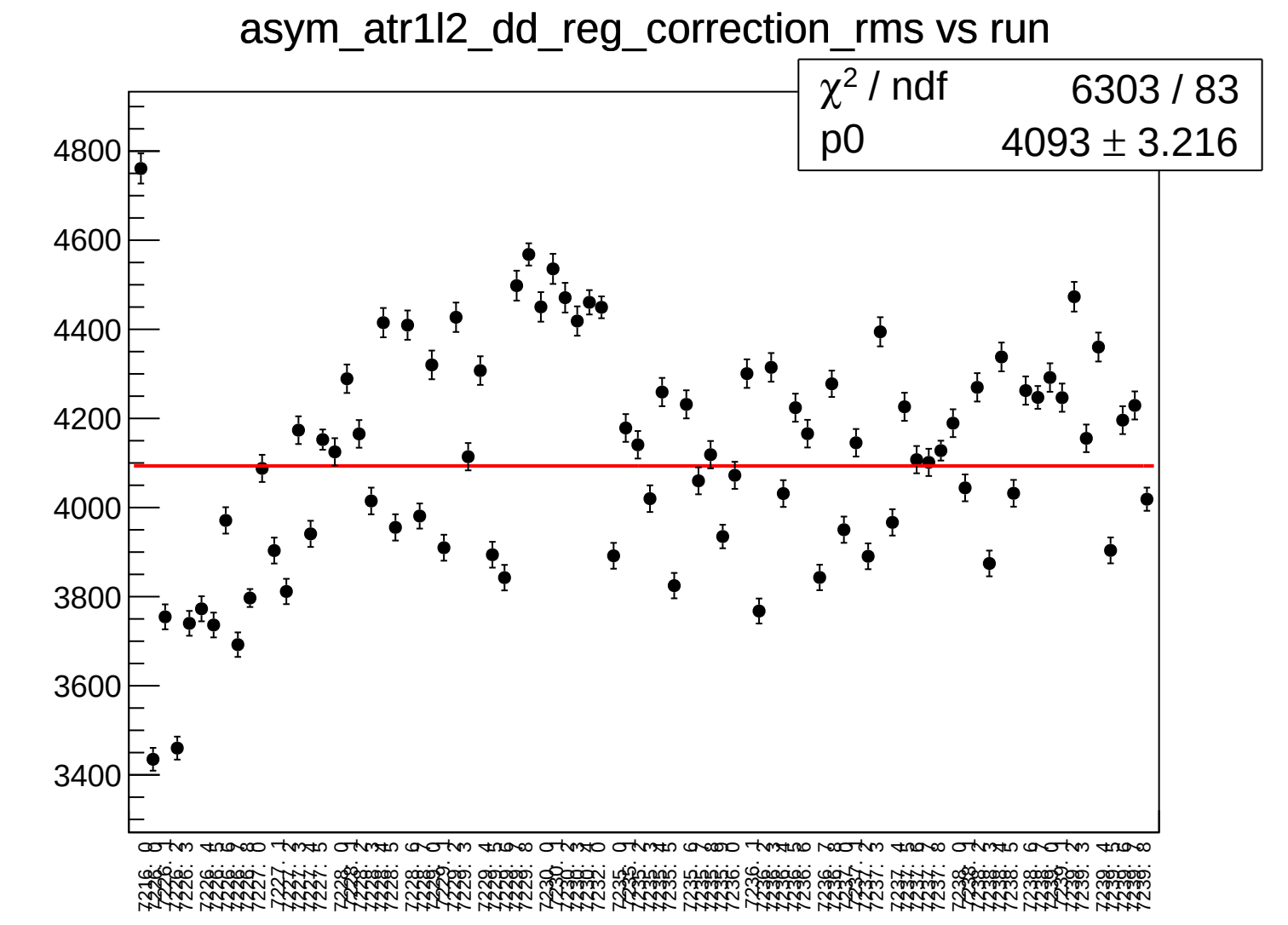

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 79.1 / 83
p0 −1323 ± 1937
pull
Entries 84
Mean 3064
Std Dev 0

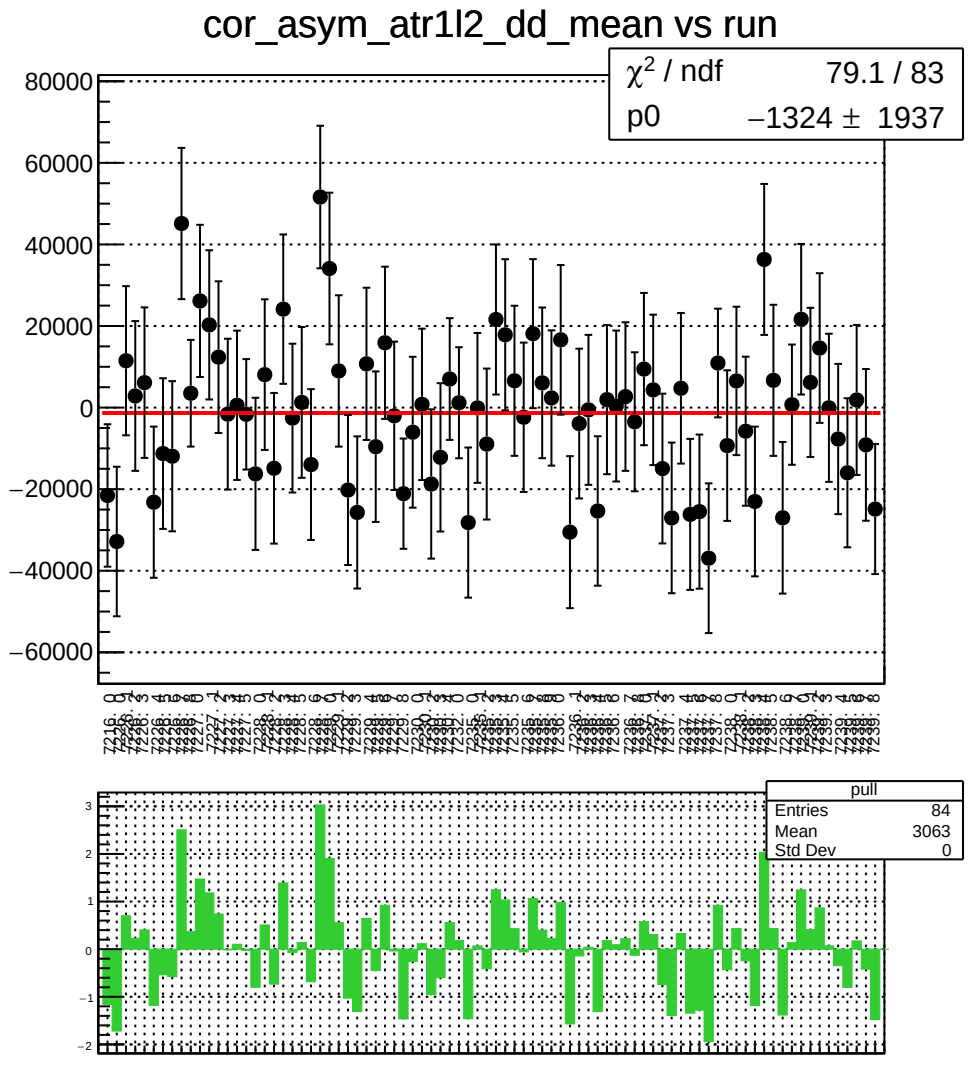

pull1D
Entries 84
Mean −0.0009346
Std Dev 0.9704

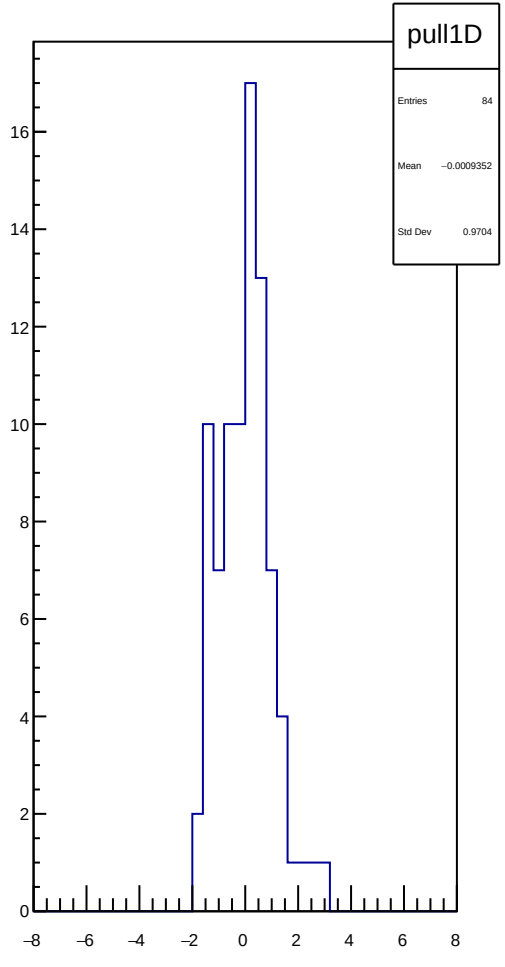

reg_asym_atr1l2_dd_rms vs run
χ^2 / ndf 86.21 / 83
p0 1747 ± 1.37
1800
1780
1760
1740
1720

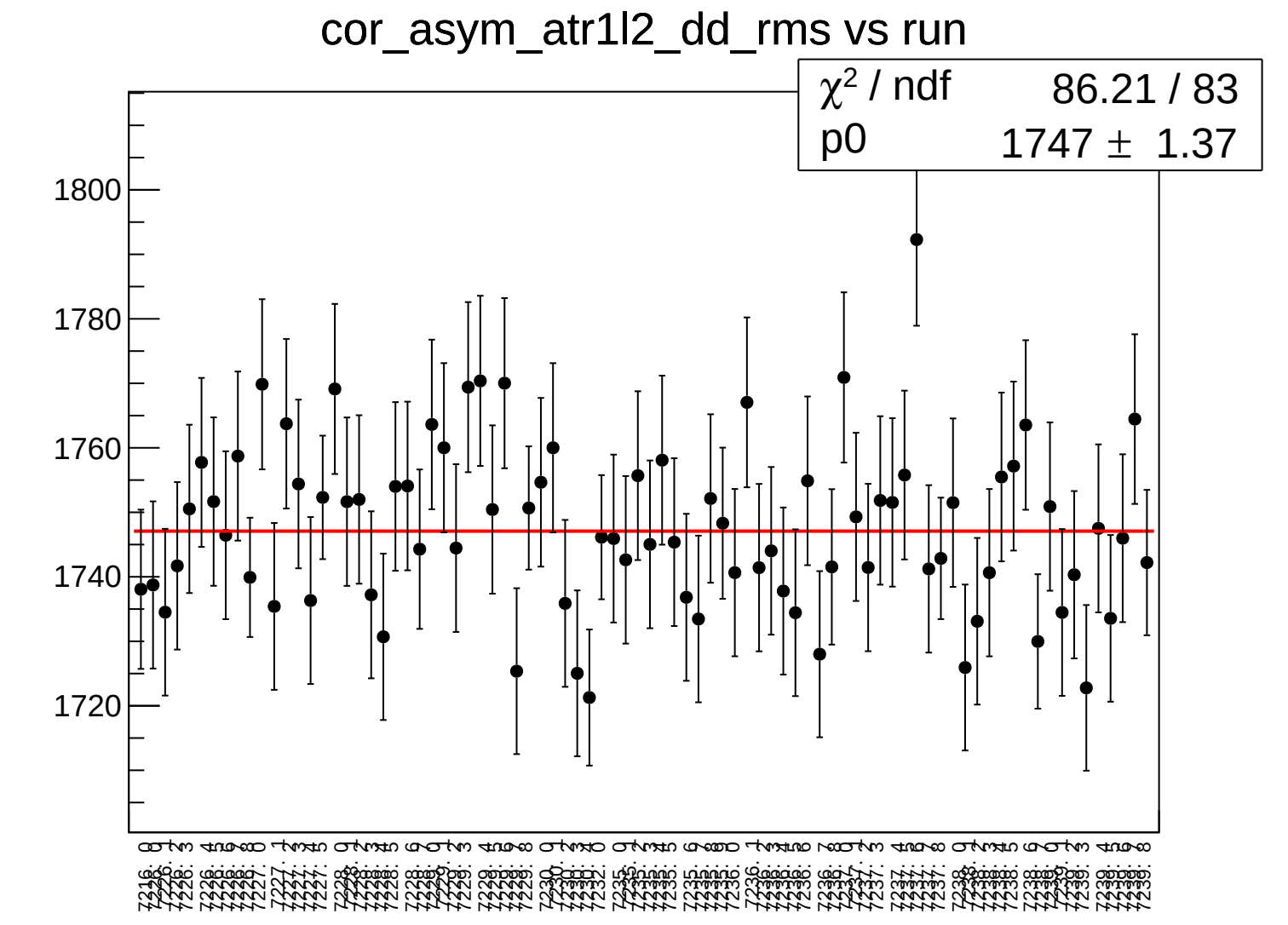

asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 100.7 / 83
p0 −3656 ± 4548
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −163.8
Std Dev 0
3
2
1
0
−1
−2

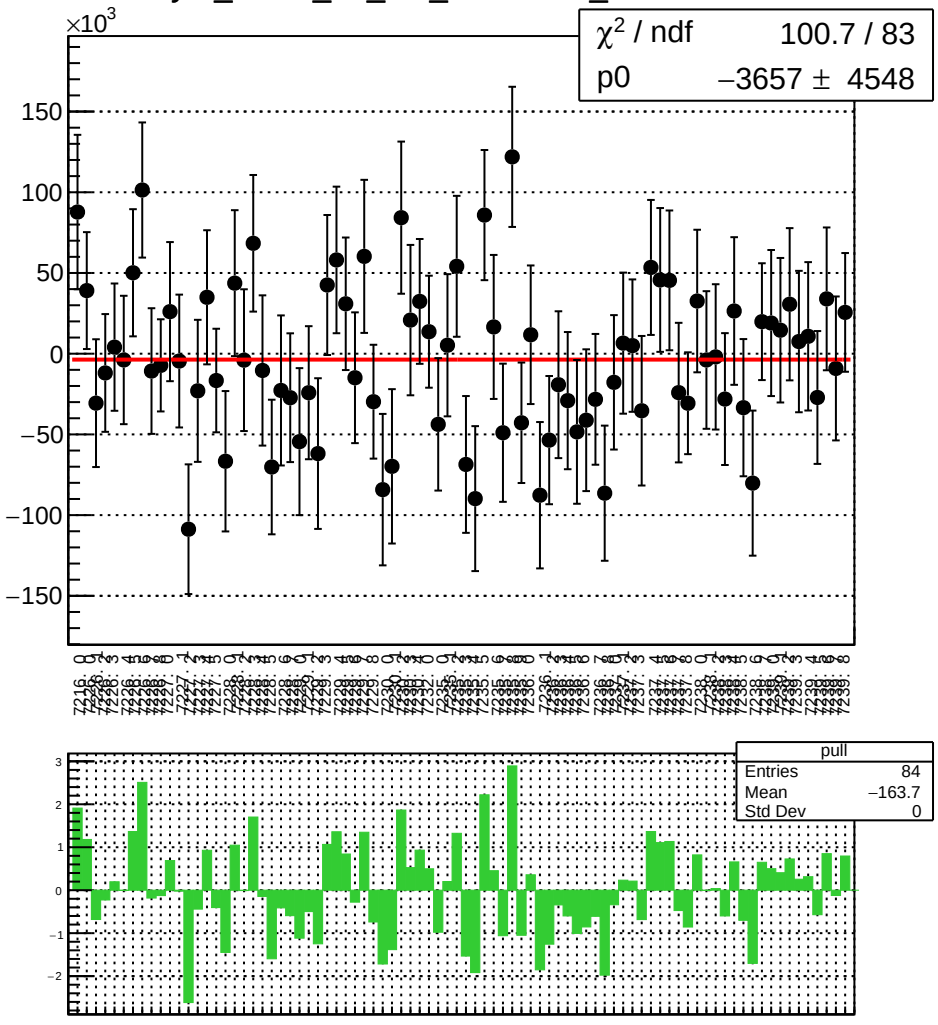

pull1D
Entries 84
Mean 0.006175
Std Dev 1.095
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

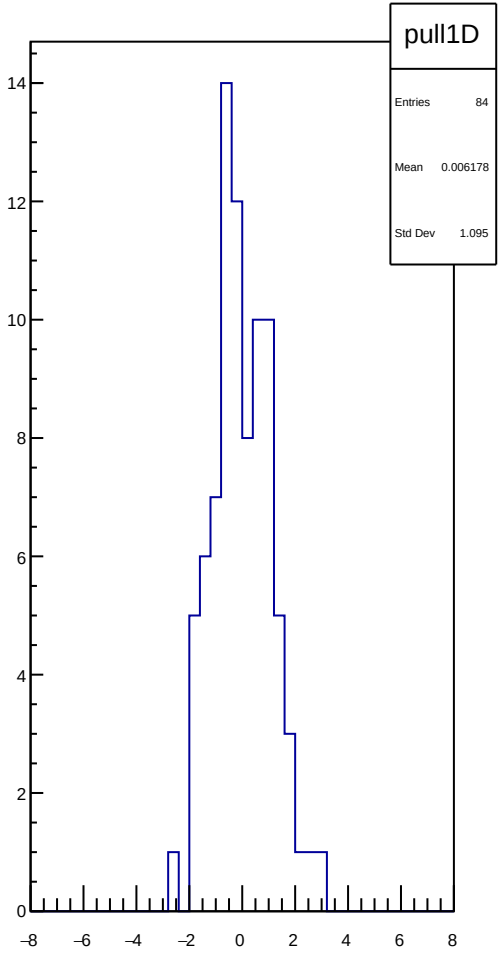

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 6303 / 83
p0 4093 ± 3.216
4800
4600
4400
4200
4000
3800
3600
3400

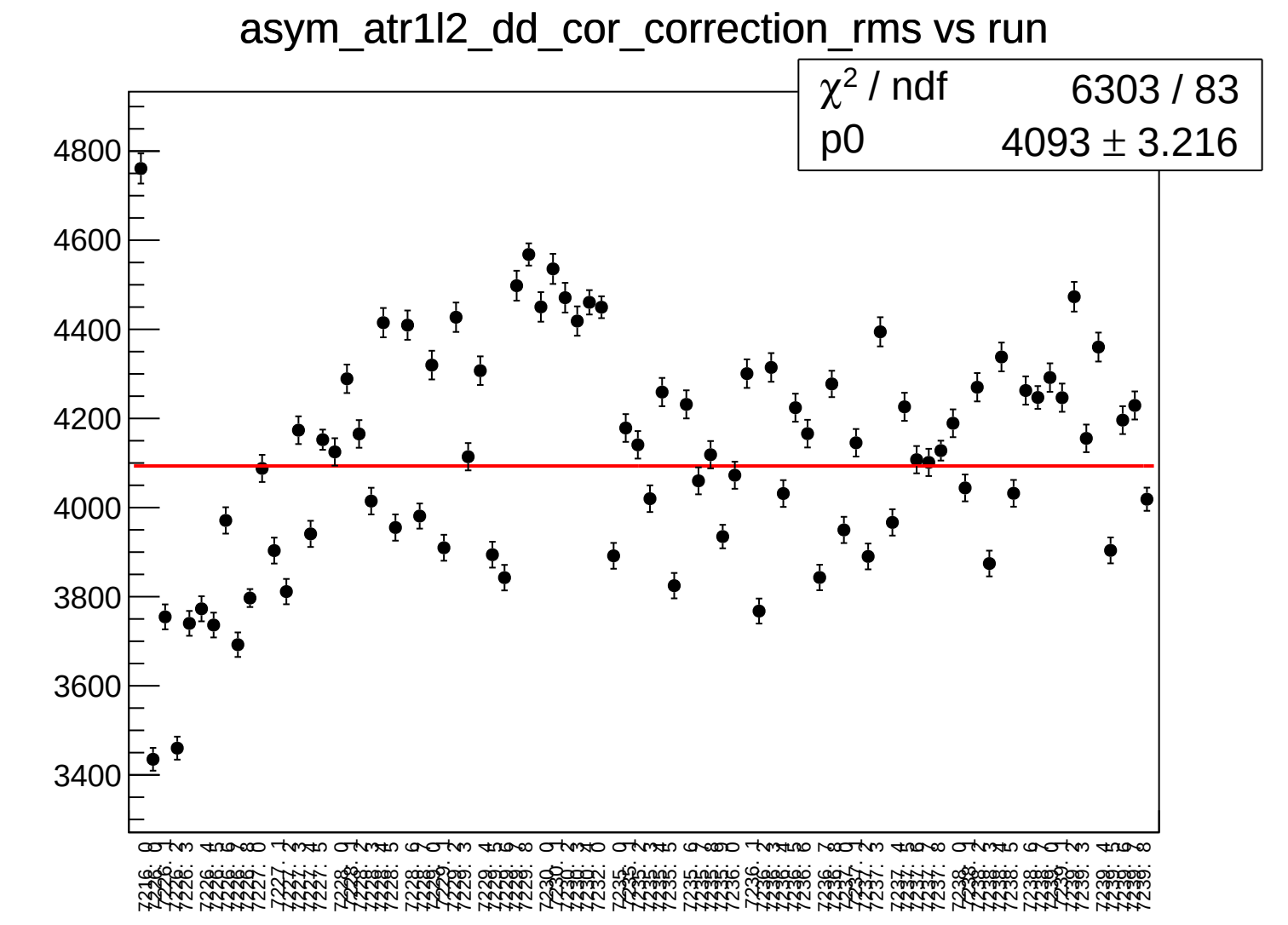

cor_asym_atr1l2_dd_mean vs run
χ² / ndf 79.1 / 83
p0 −1324 ± 1937
pull
Entries 84
Mean 3063
Std Dev 0

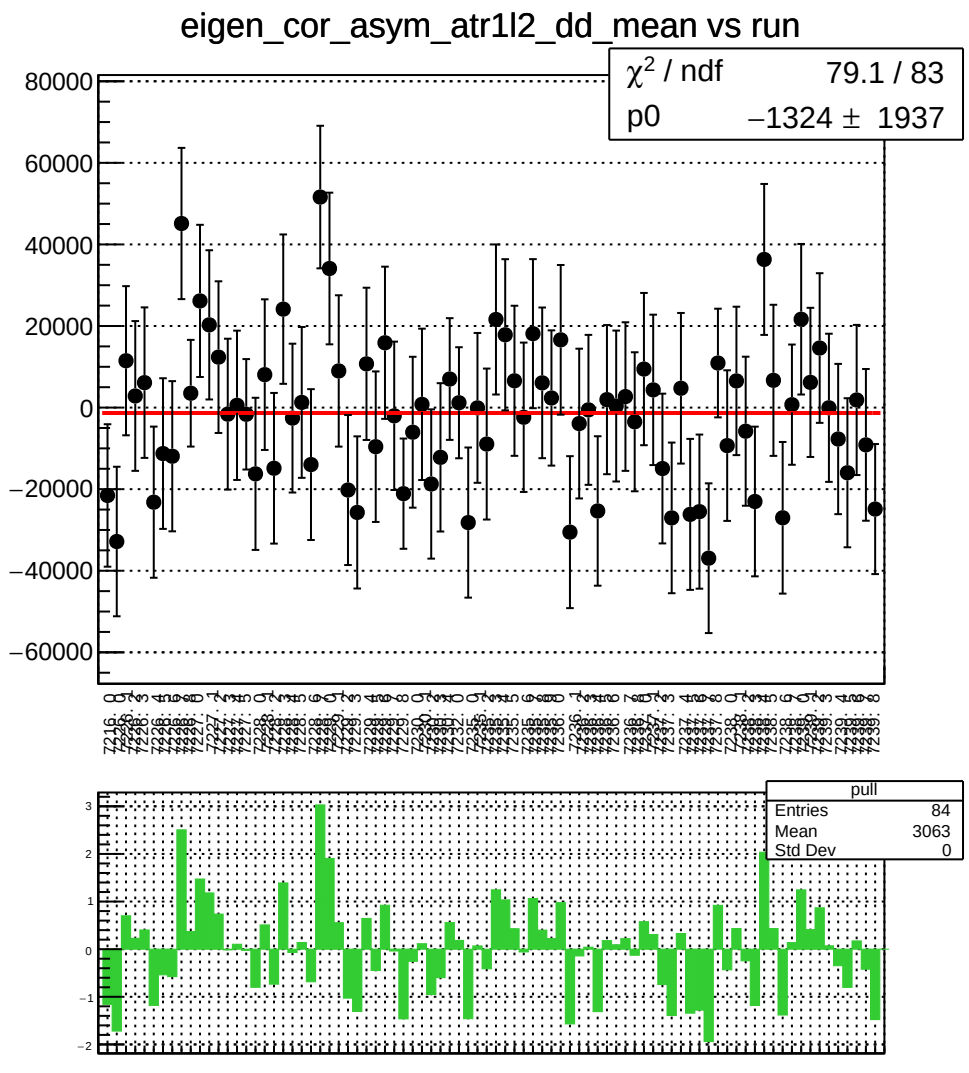

pull1D
Entries 84
Mean −0.0009352
Std Dev 0.9704

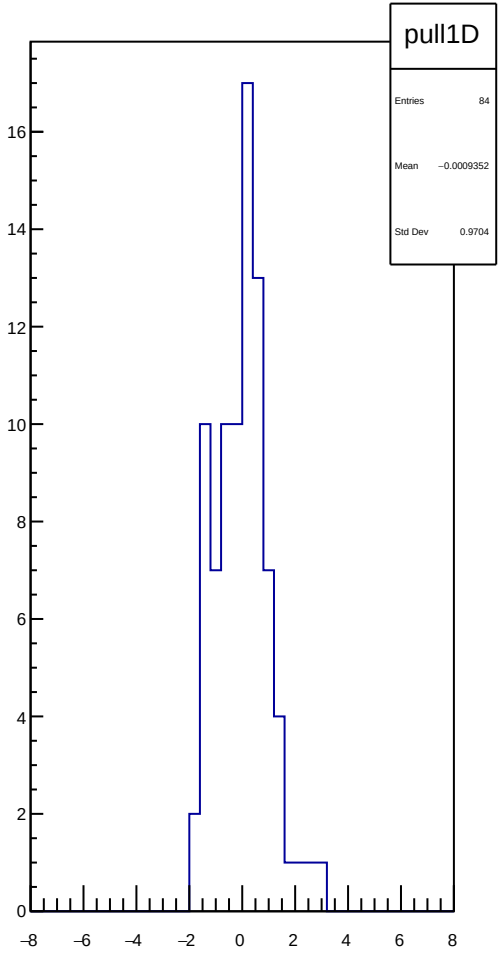

cor_asym_atr1l2_dd_rms vs run
χ² / ndf 86.21 / 83
p0 1747 ± 1.37
1800
1780
1760
1740
1720

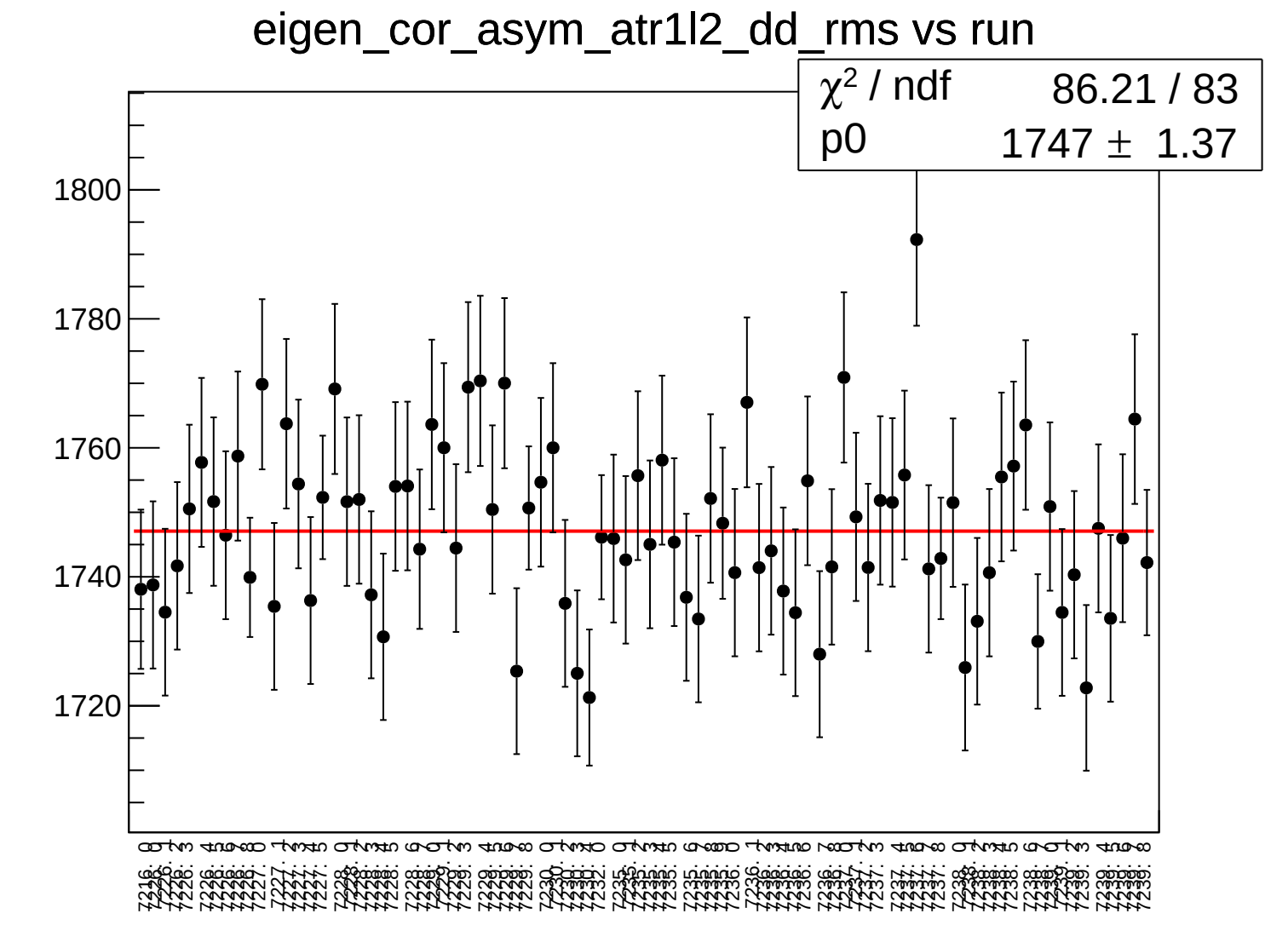

asym_atr1l2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 100.7 / 83
p0 −3657 ± 4548
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −163.7
Std Dev 0
3
2
1
0
−1
−2

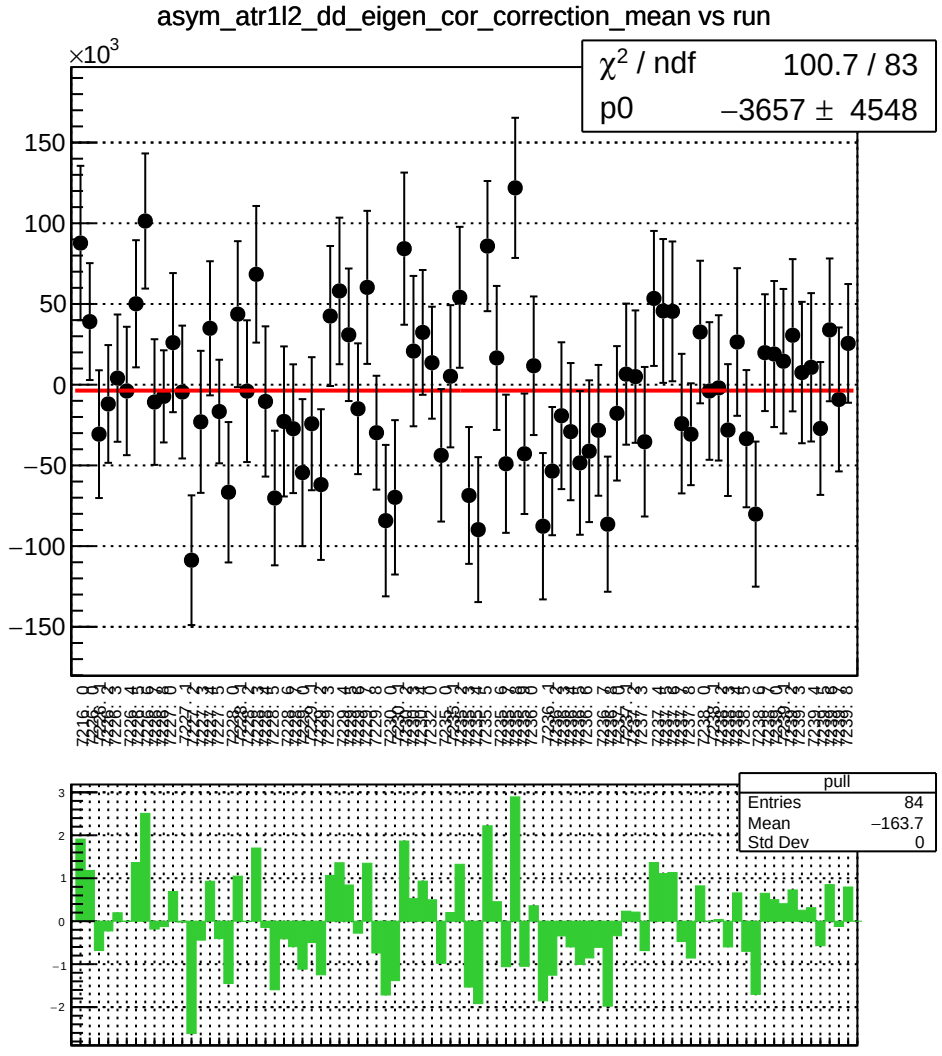

pull1D
Entries 84
Mean 0.006178
Std Dev 1.095
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

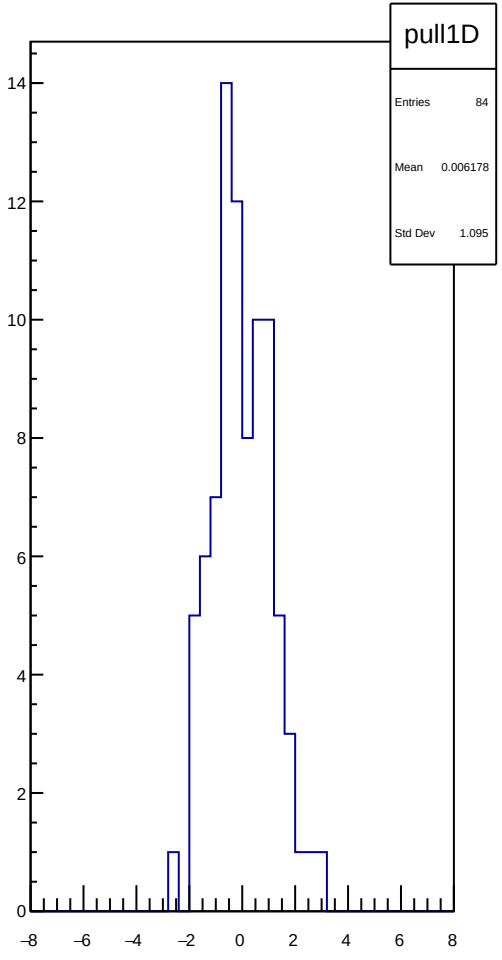

asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 6303 / 83
p0 4093 ± 3.216
4800
4600
4400
4200
4000
3800
3600
3400

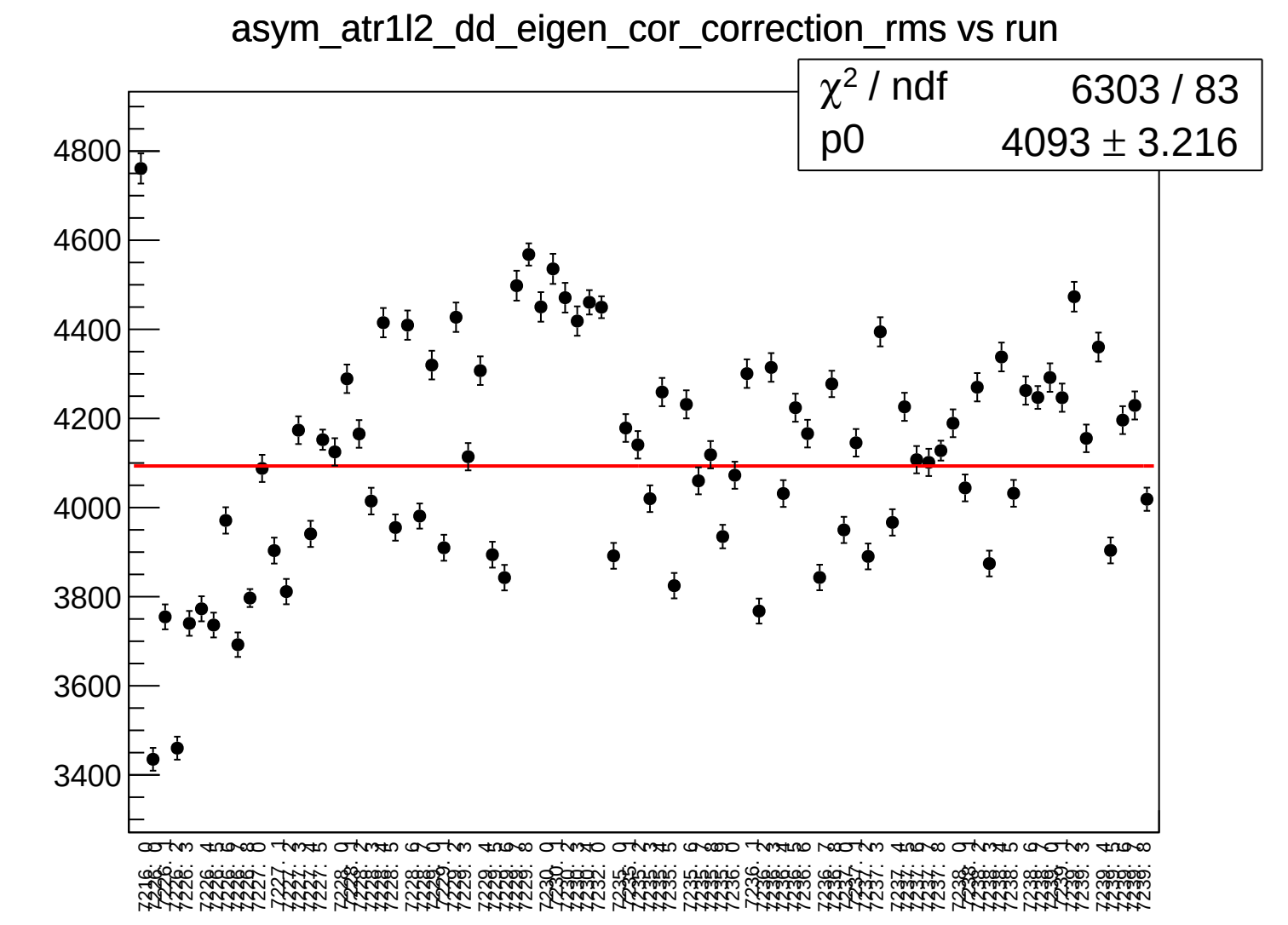

eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 79.1 / 83
p0 −1324 ± 1937
pull
Entries 84
Mean 3063
Std Dev 0

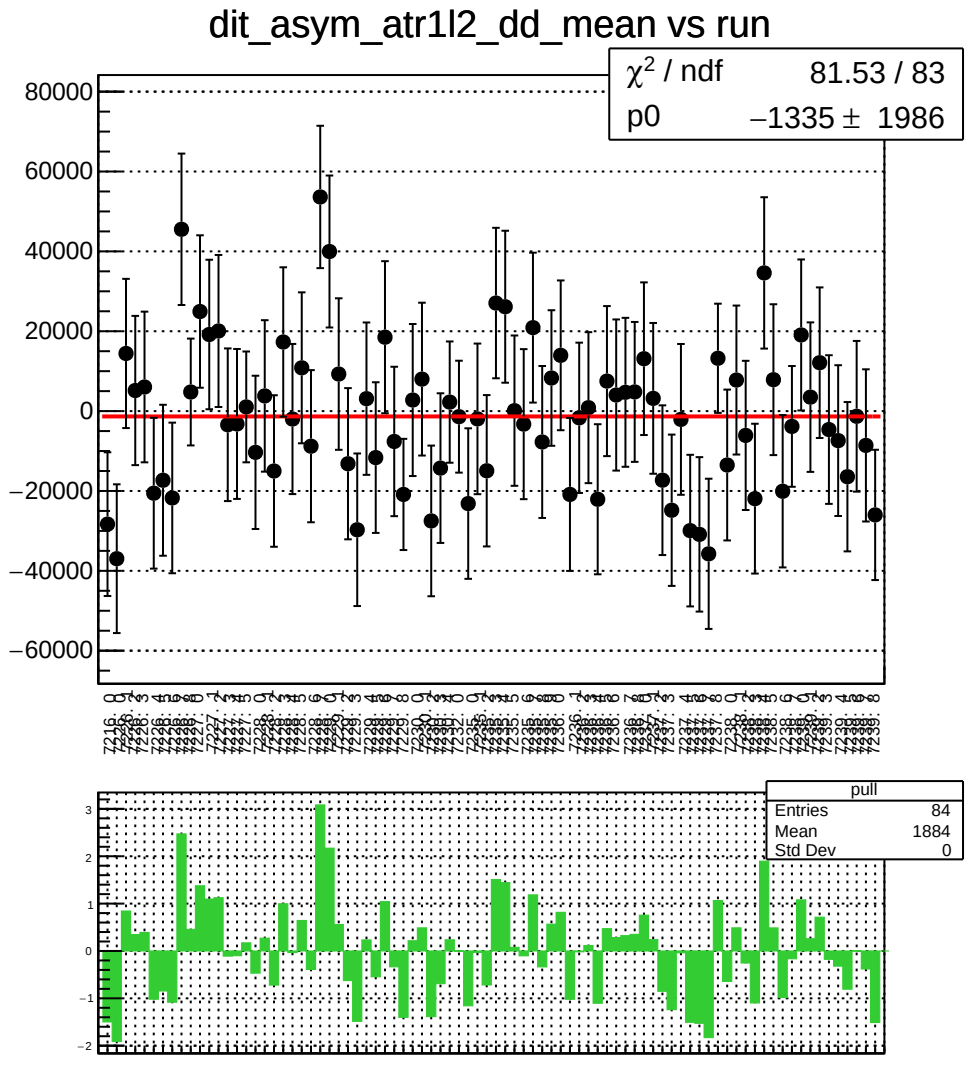

pull1D
Entries 84
Mean −0.0009352
Std Dev 0.9704

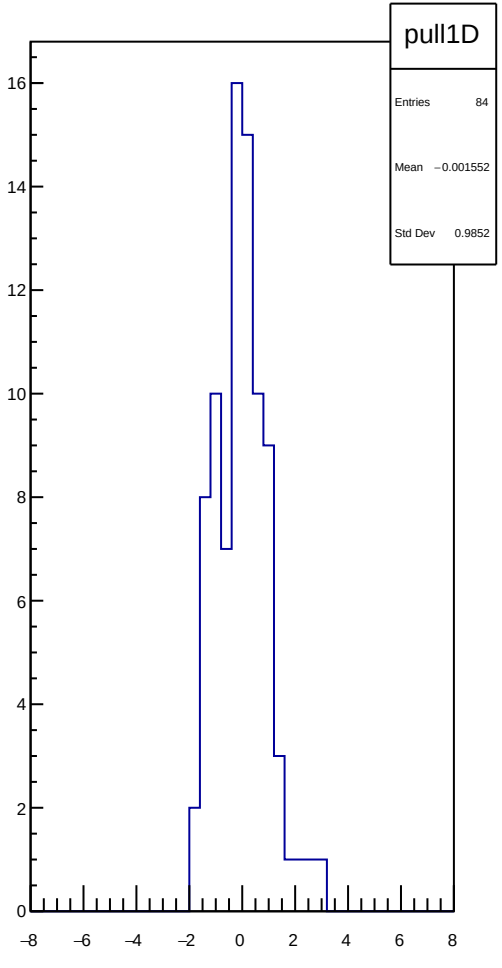

eigen_cor_asym_atr1l2_dd_rms vs run
χ² / ndf 86.21 / 83
p0 1747 ± 1.37
1800
1780
1760
1740
1720

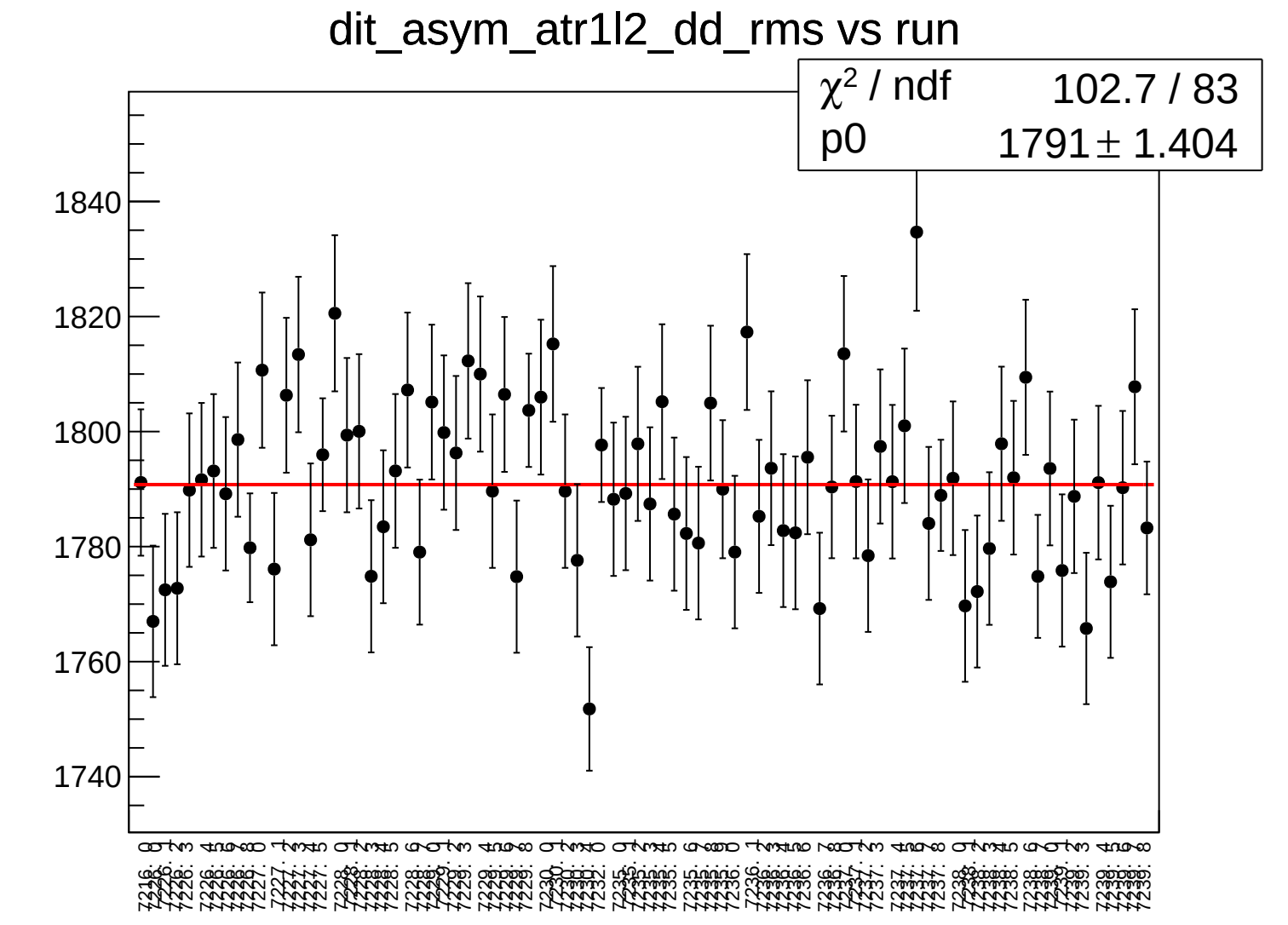

asym_atr1l2_dd_eigen_cor_correction_mean vs run
χ² / ndf 100.7 / 83
p0 −3657 ± 4548
pull
Entries 84
Mean −163.7
Std Dev 0

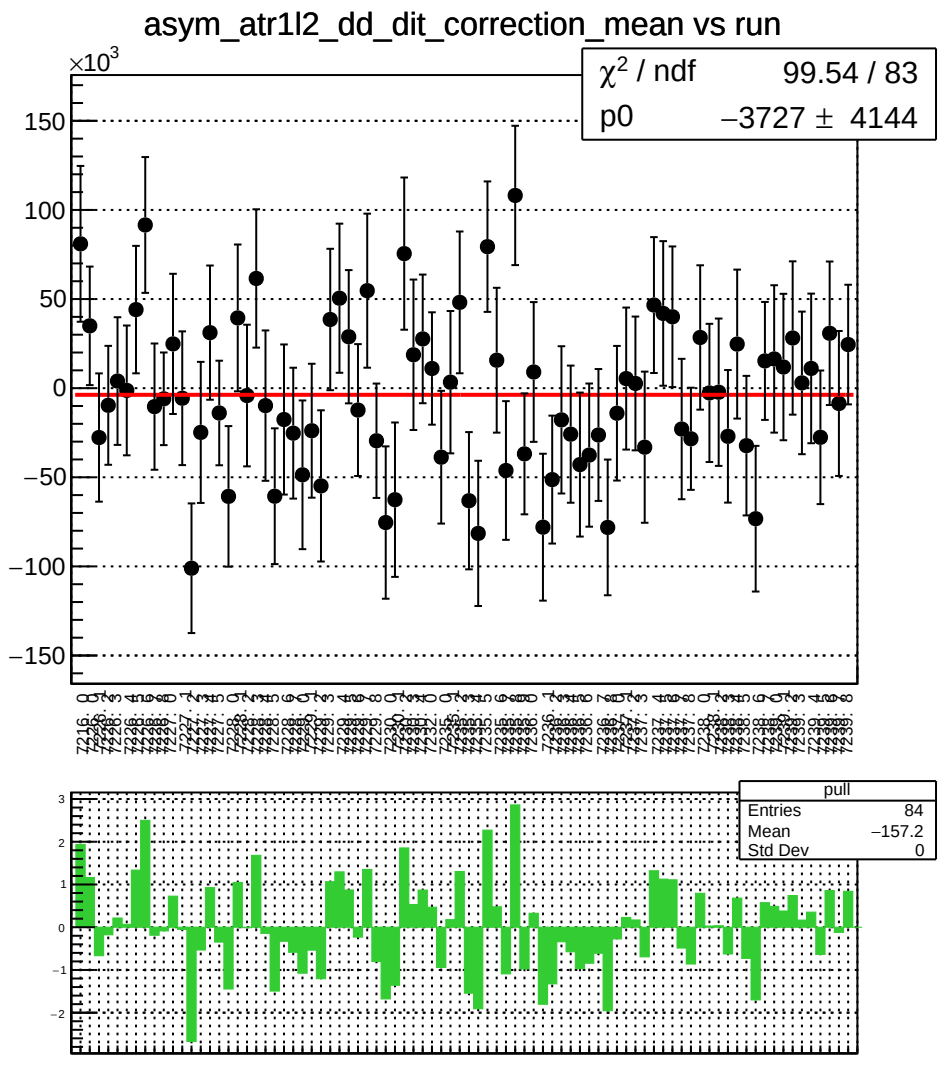

pull1D
Entries 84
Mean 0.006178
Std Dev 1.095

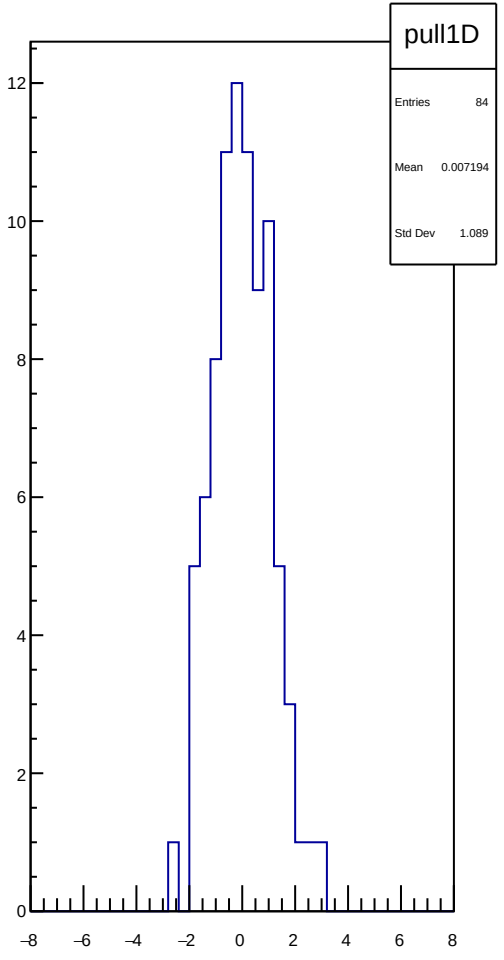

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 6303 / 83
p0 4093 ± 3.216
4800
4600
4400
4200
4000
3800
3600
3400

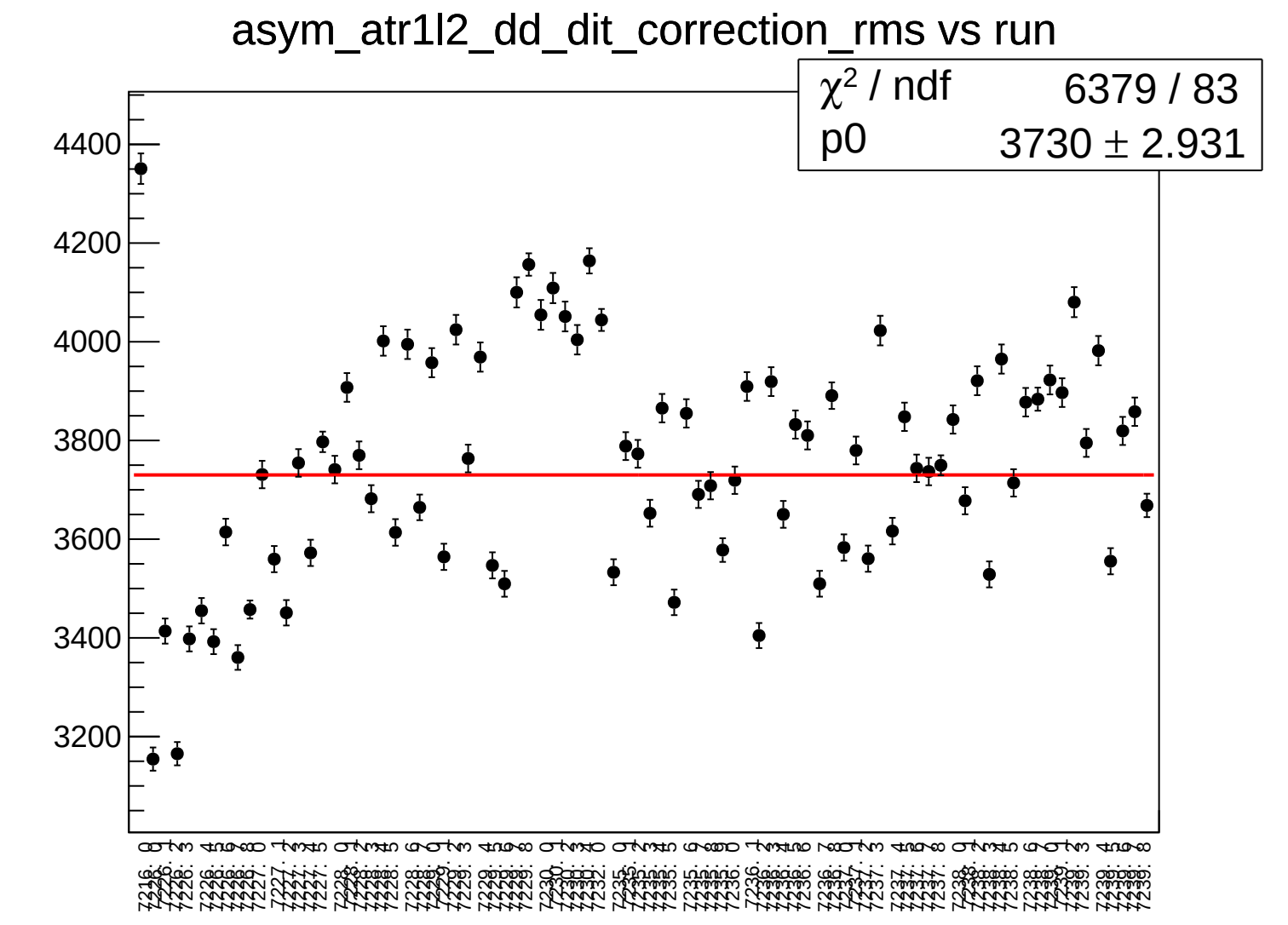

dit_asym_atr1l2_dd_mean vs run
χ² / ndf 81.53 / 83
p0 −1335 ± 1986
pull
Entries 84
Mean 1884
Std Dev 0

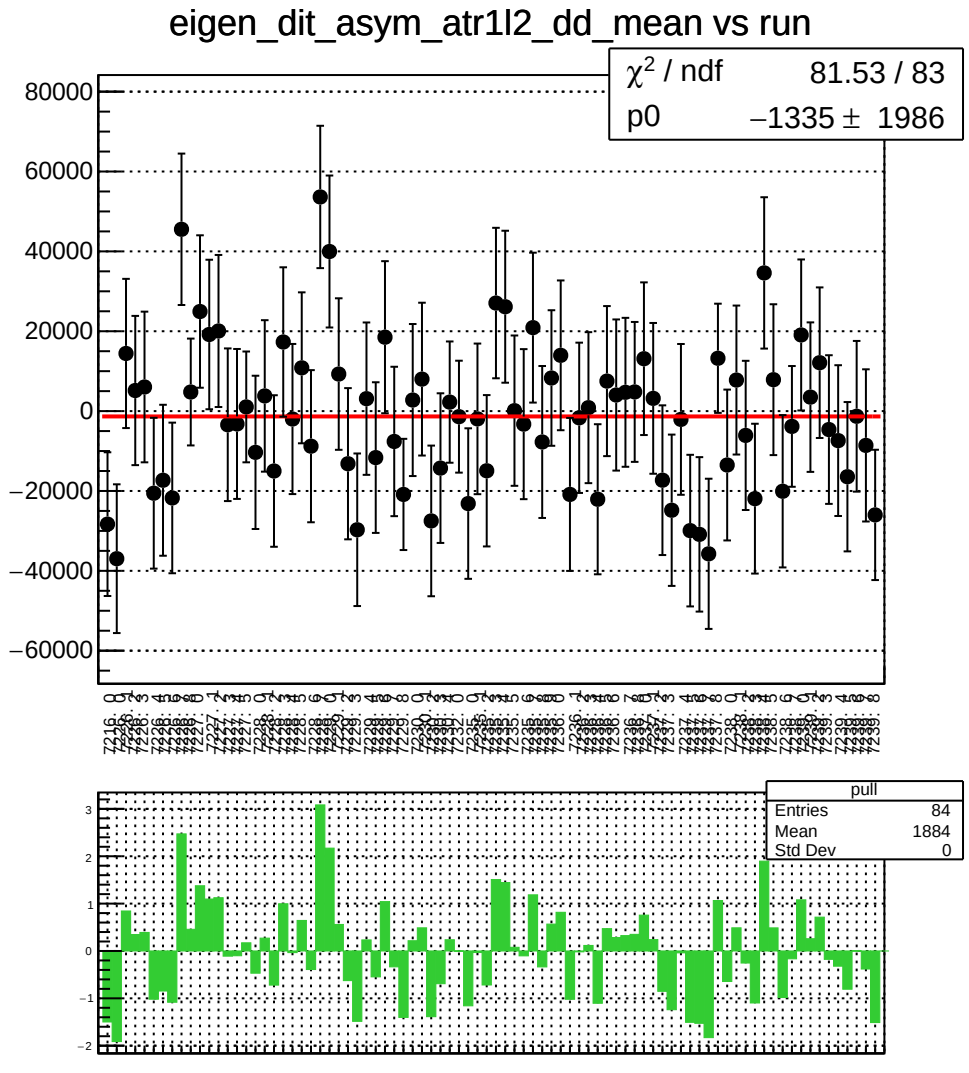

pull1D
Entries 84
Mean −0.001552
Std Dev 0.9852

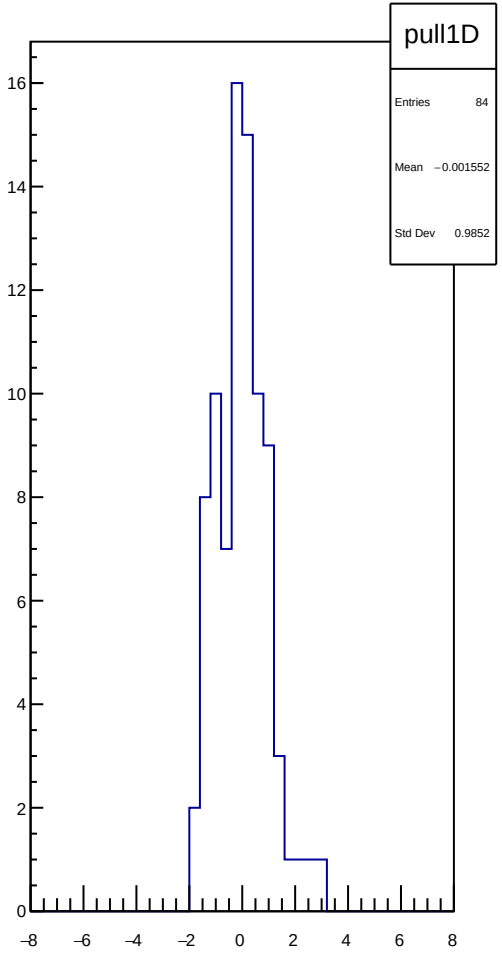

dit_asym_atr1l2_dd_rms vs run
χ^2 / ndf 102.7 / 83
p0 1791 ± 1.404
1840
1820
1800
1780
1760
1740

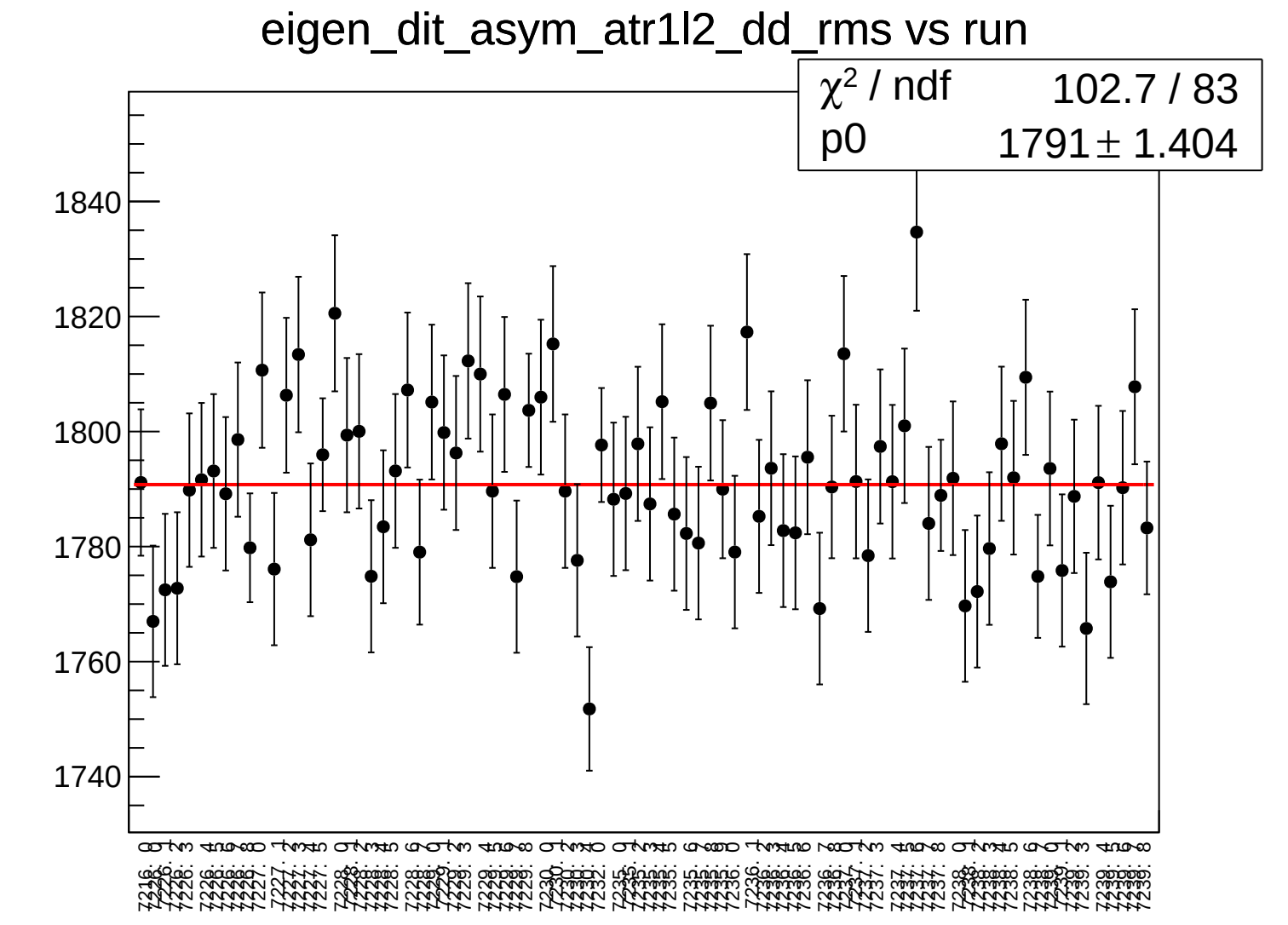

asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 99.54 / 83
p0 −3727 ± 4144
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −157.2
Std Dev 0
3
2
1
0
−1
−2

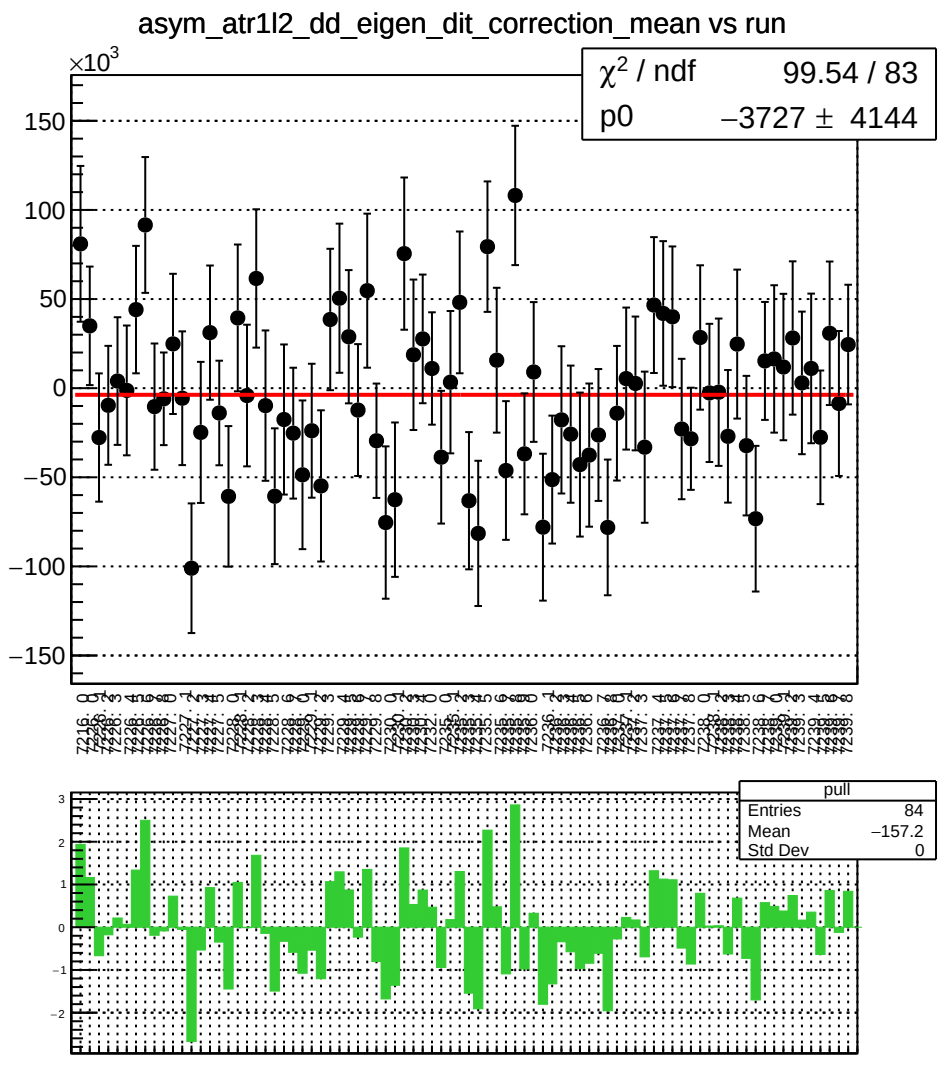

pull1D
Entries 84
Mean 0.007194
Std Dev 1.089
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

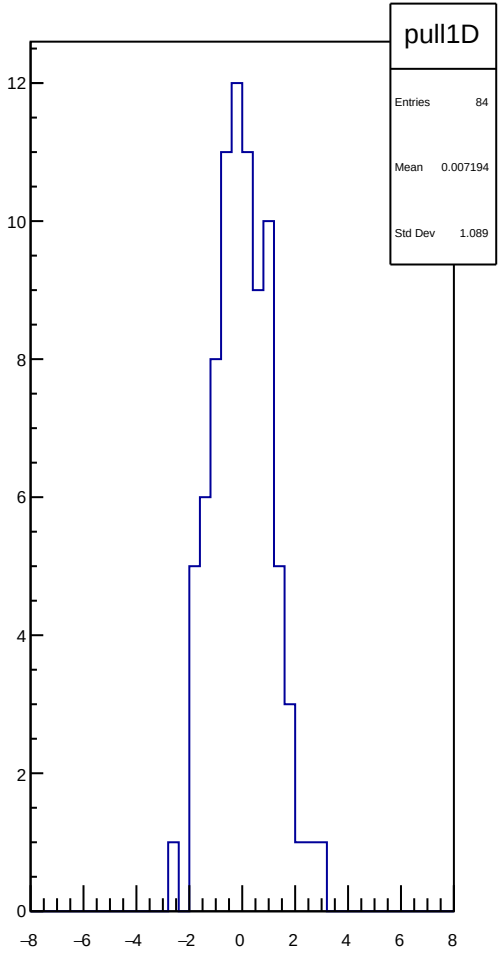

asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 6379 / 83
p0 3730 ± 2.931
4400
4200
4000
3800
3600
3400
3200

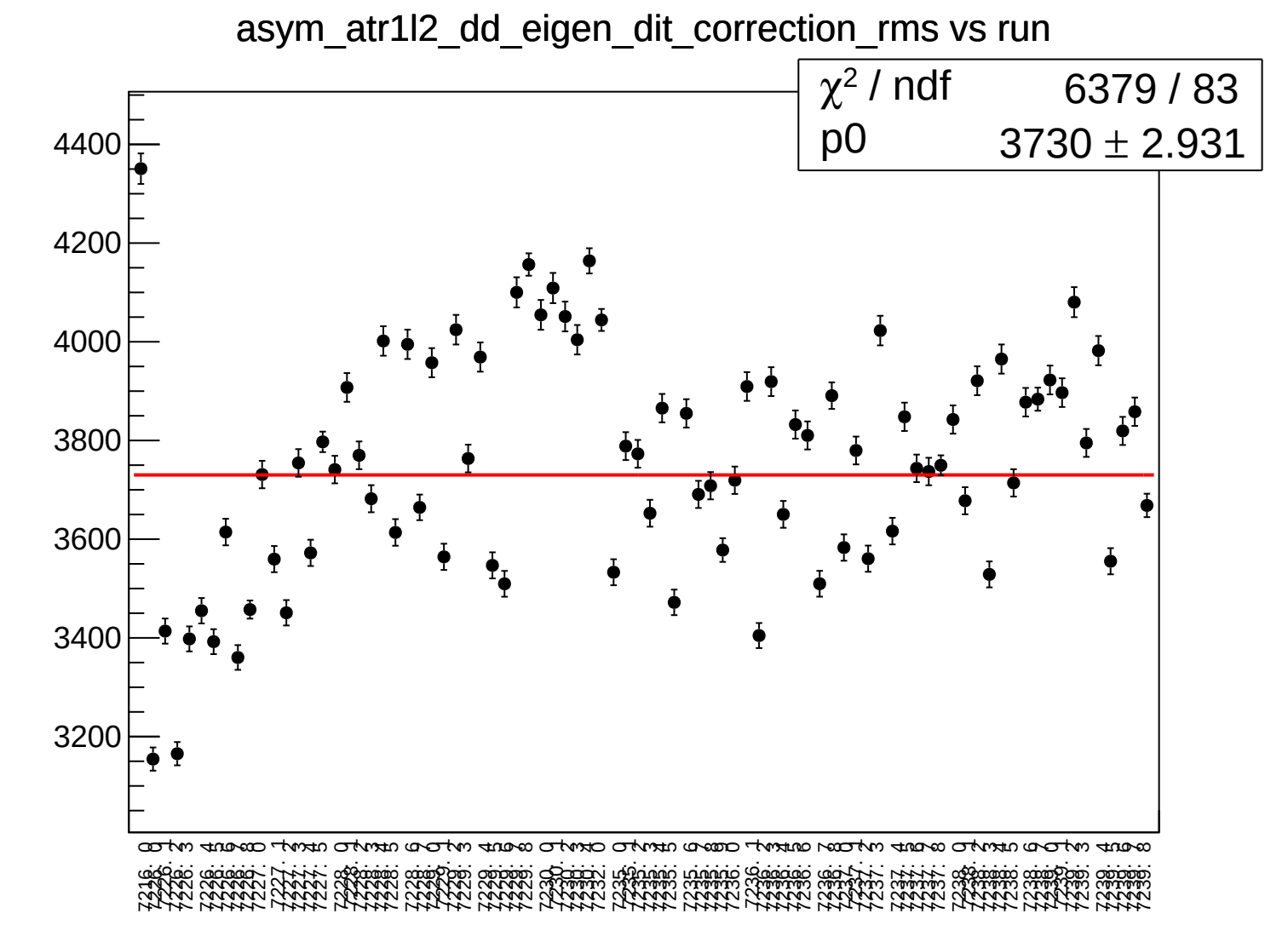

eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 81.53 / 83
p0 −1335 ± 1986
pull
Entries 84
Mean 1884
Std Dev 0

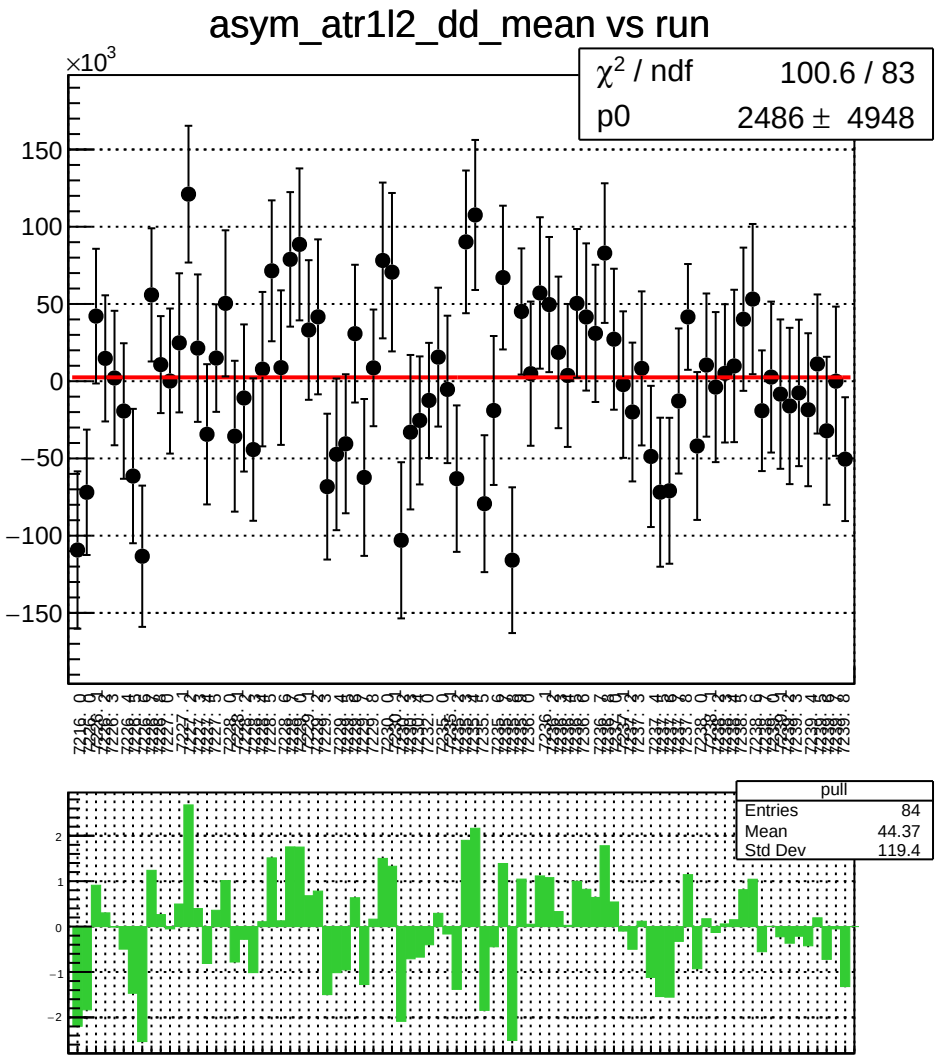

pull1D
Entries 84
Mean −0.001552
Std Dev 0.9852

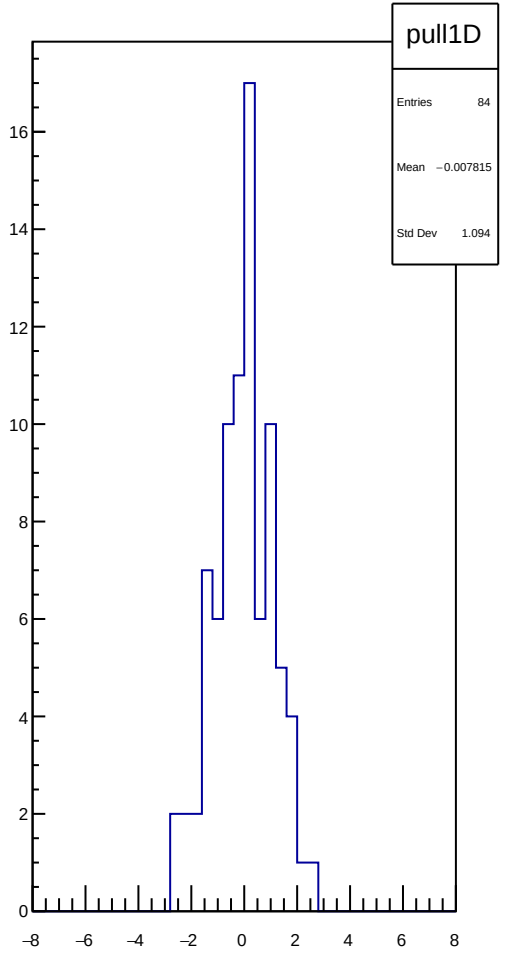

eigen_dit_asym_atr1l2_dd_rms vs run
χ² / ndf 102.7 / 83
p0 1791 ± 1.404
1840
1820
1800
1780
1760
1740

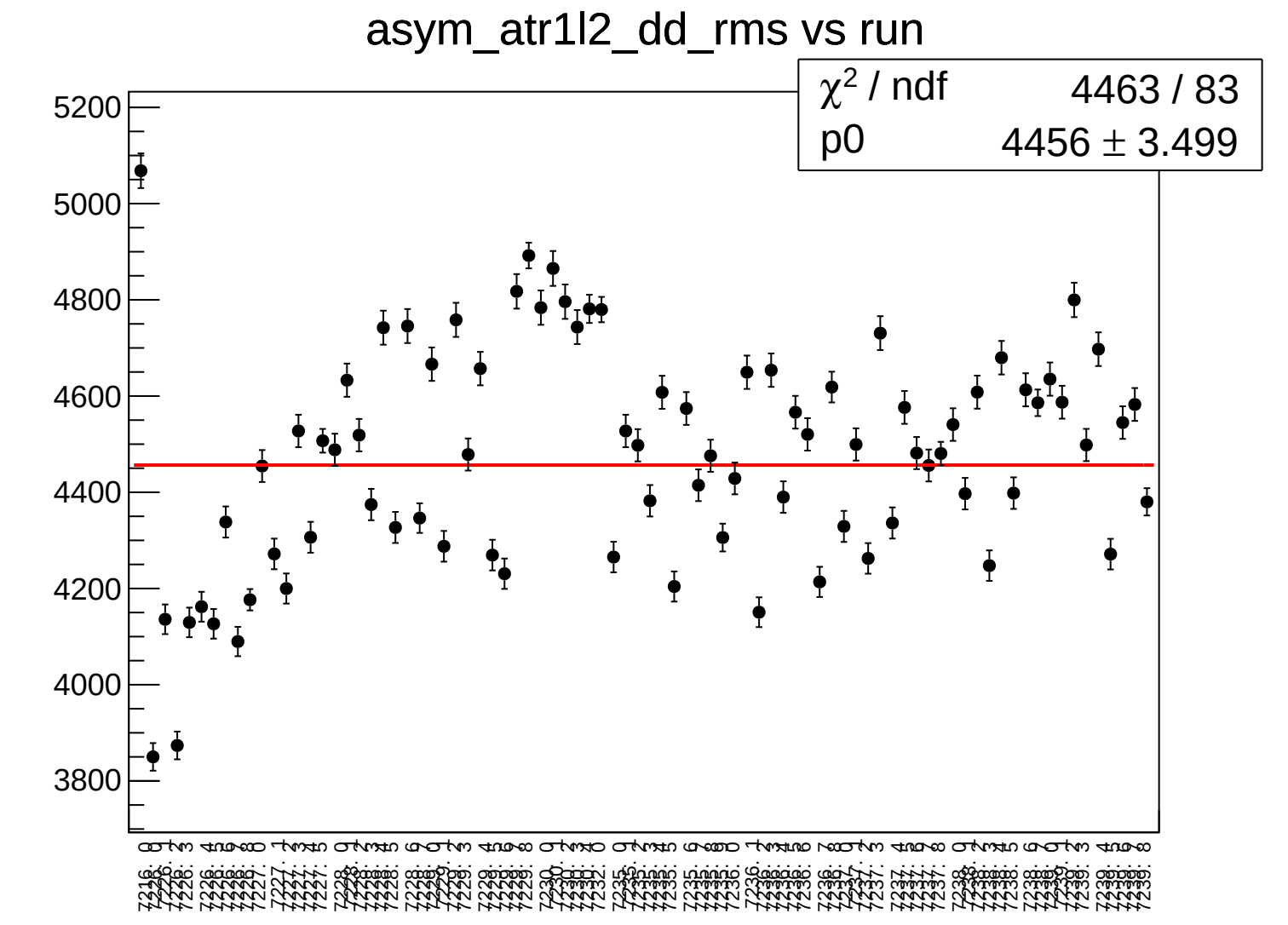

asym_atr1l2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 99.54 / 83
p0 −3727 ± 4144
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −157.2
Std Dev 0
3
2
1
0
−1
−2

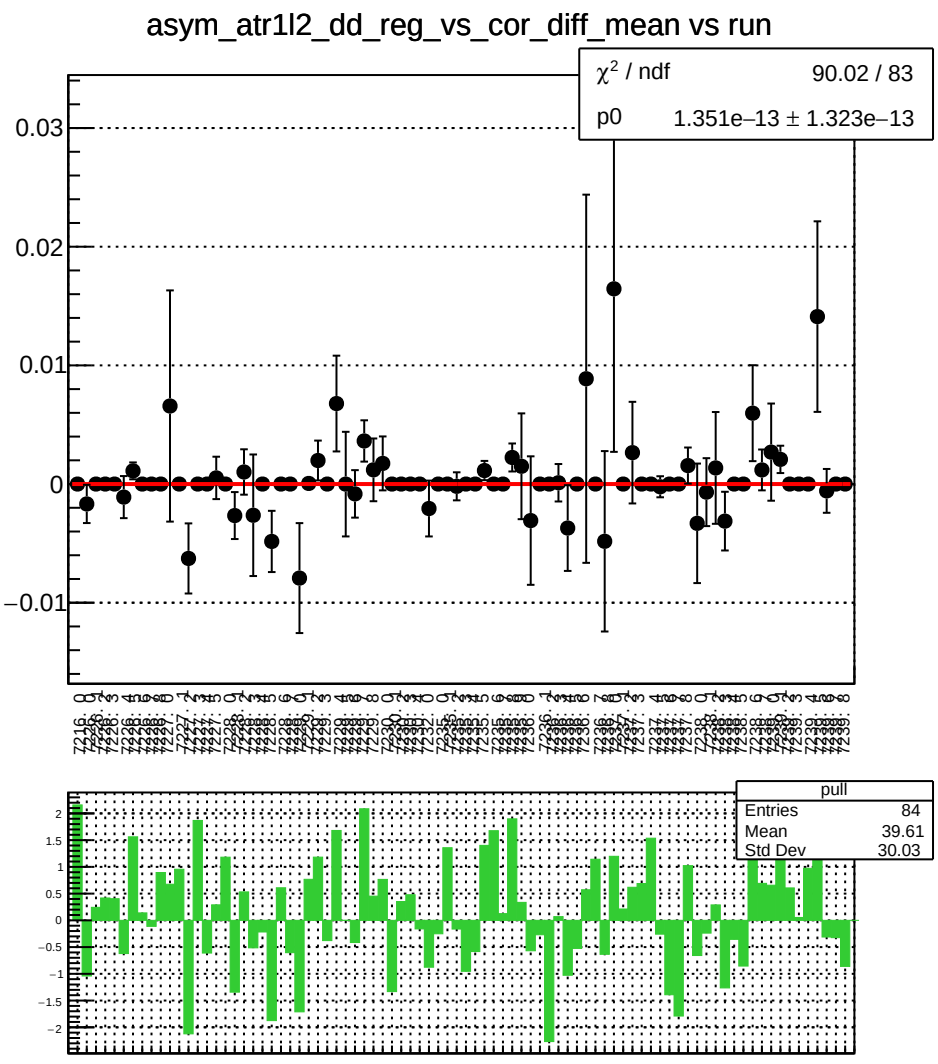

pull1D
Entries 84
Mean 0.007194
Std Dev 1.089
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

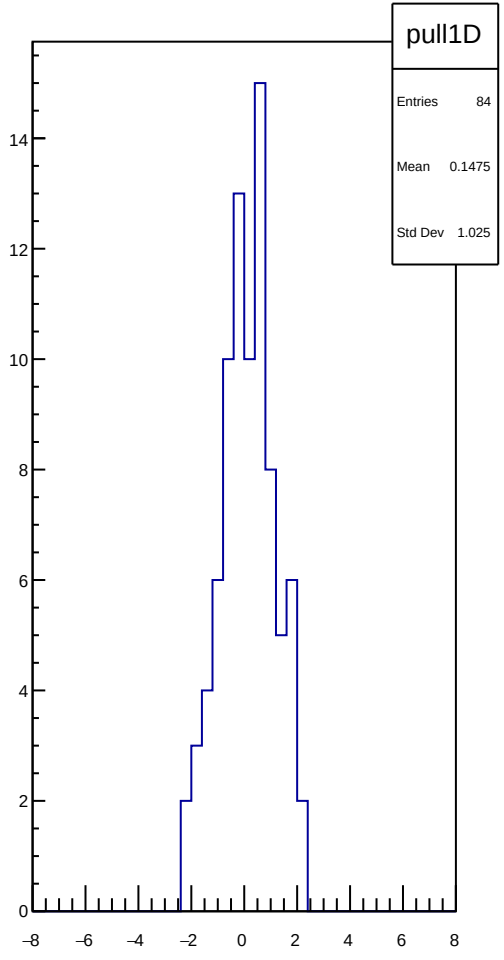

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 6379 / 83
p0 3730 ± 2.931
4400
4200
4000
3800
3600
3400
3200

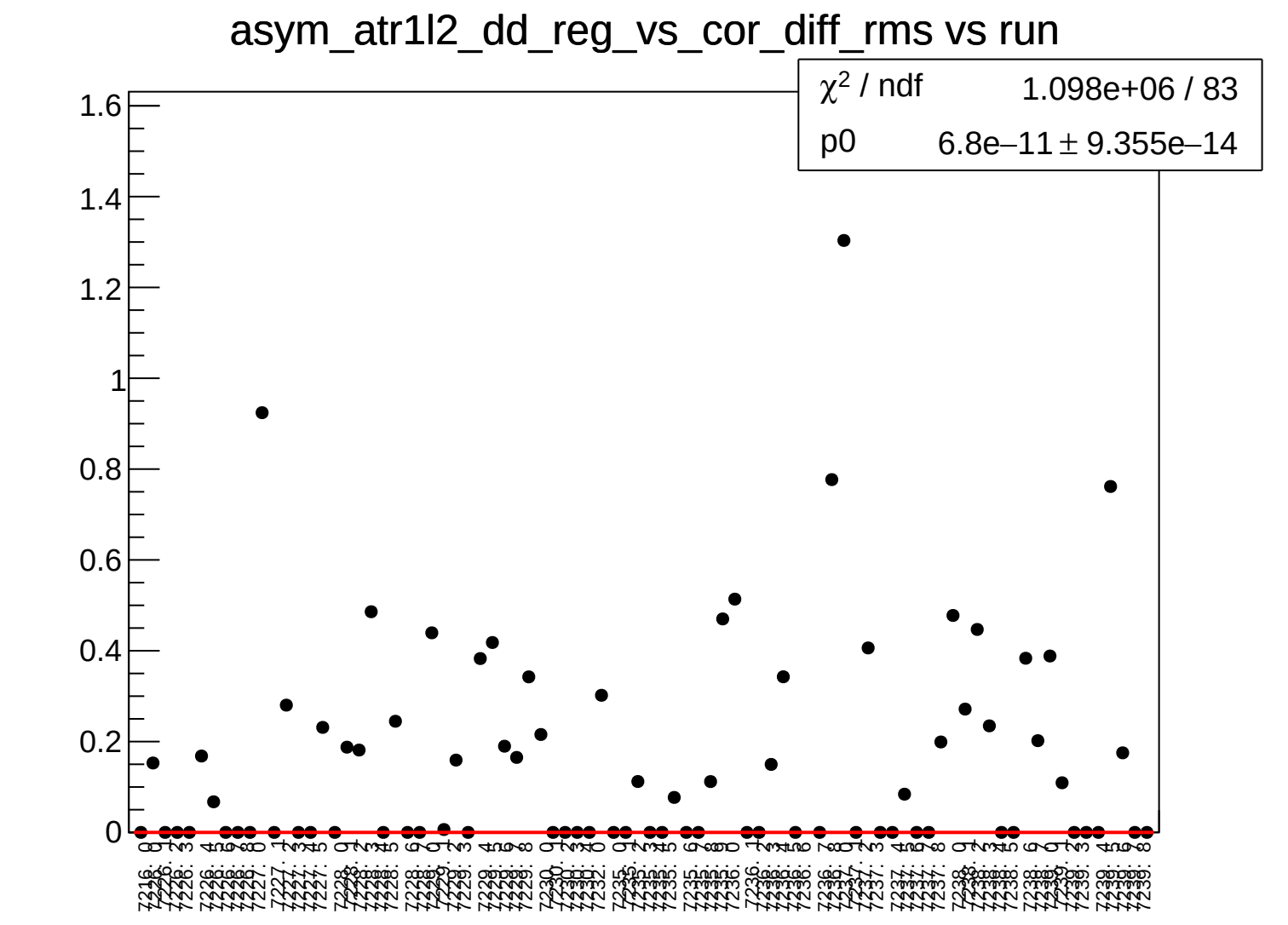

asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 100.6 / 83
p0 2486 ± 4948
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean 44.37
Std Dev 119.4
2
1
0
−1
−2

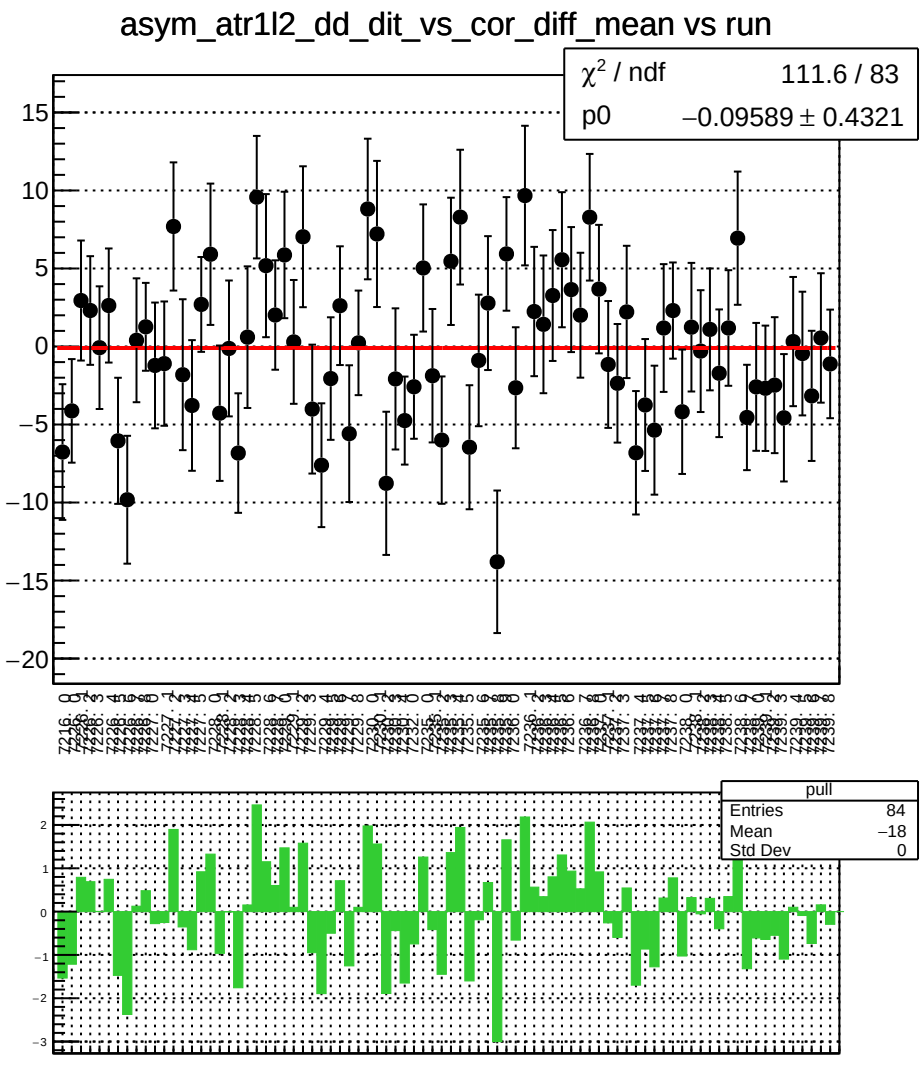

pull1D
Entries 84
Mean −0.007815
Std Dev 1.094
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

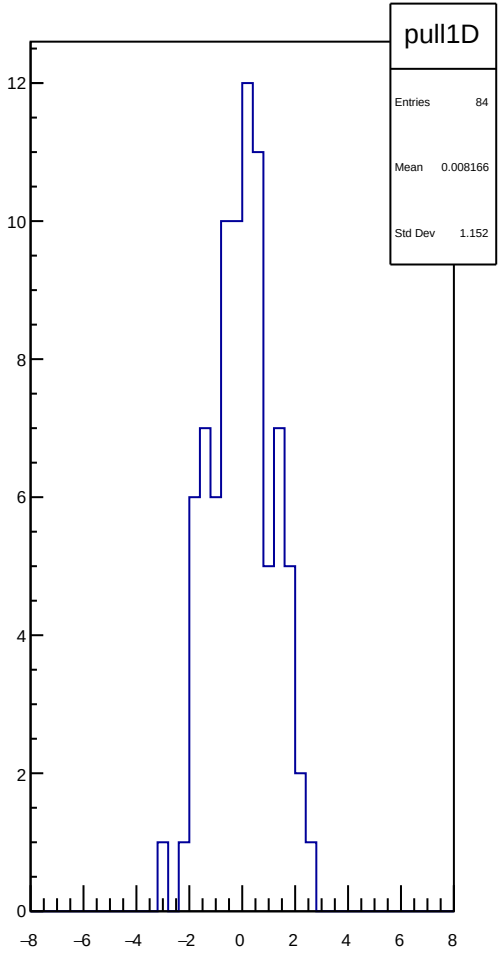

asym_atr1l2_dd_rms vs run
χ^2 / ndf 4463 / 83
p0 4456 ± 3.499
5200
5000
4800
4600
4400
4200
4000
3800

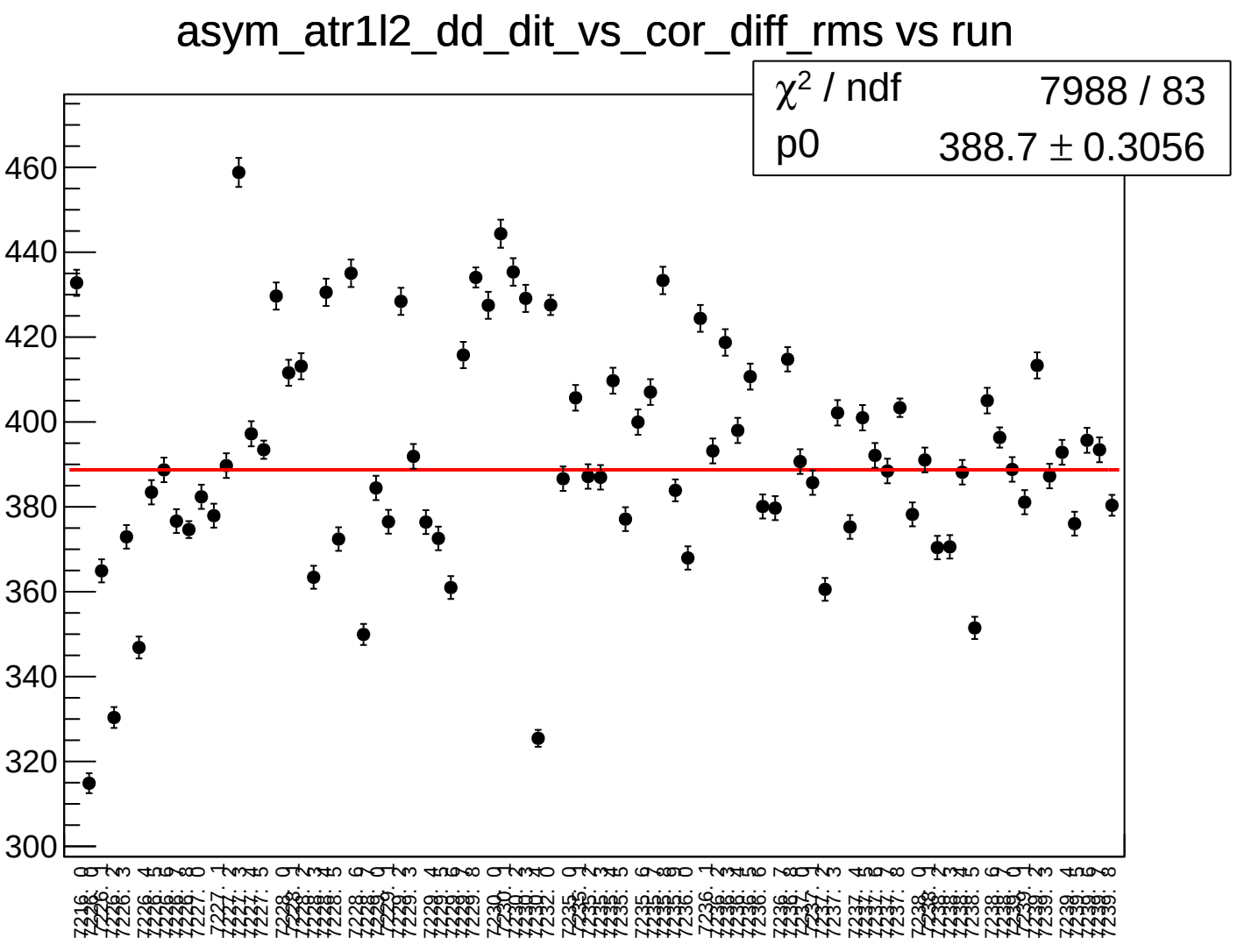

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 90.02 / 83
p0 1.351e−13 ± 1.323e−13
0.03
0.02
0.01
0
−0.01
pull
Entries 84
Mean 39.61
Std Dev 30.03
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

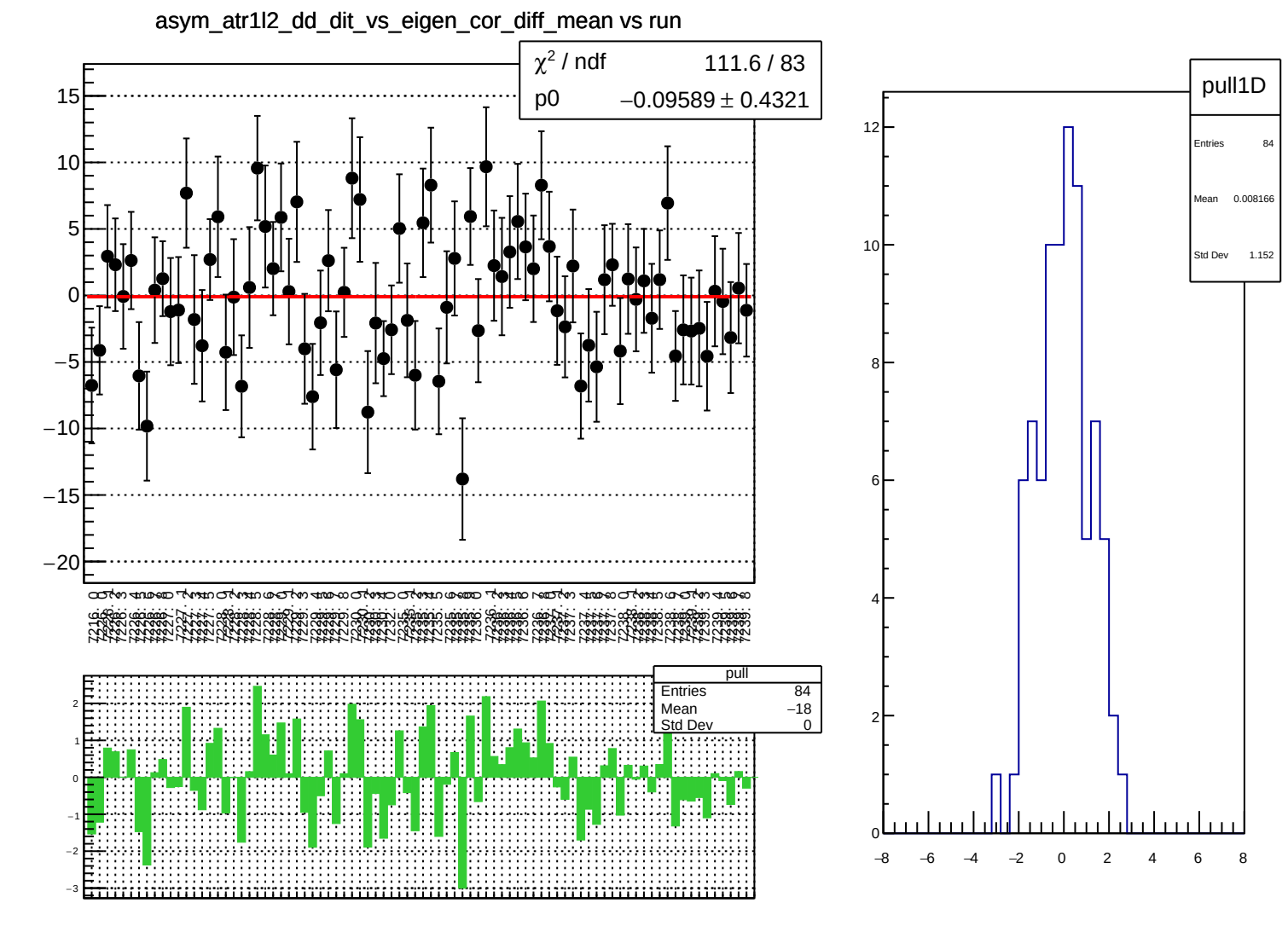

pull1D
Entries 84
Mean 0.1475
Std Dev 1.025
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

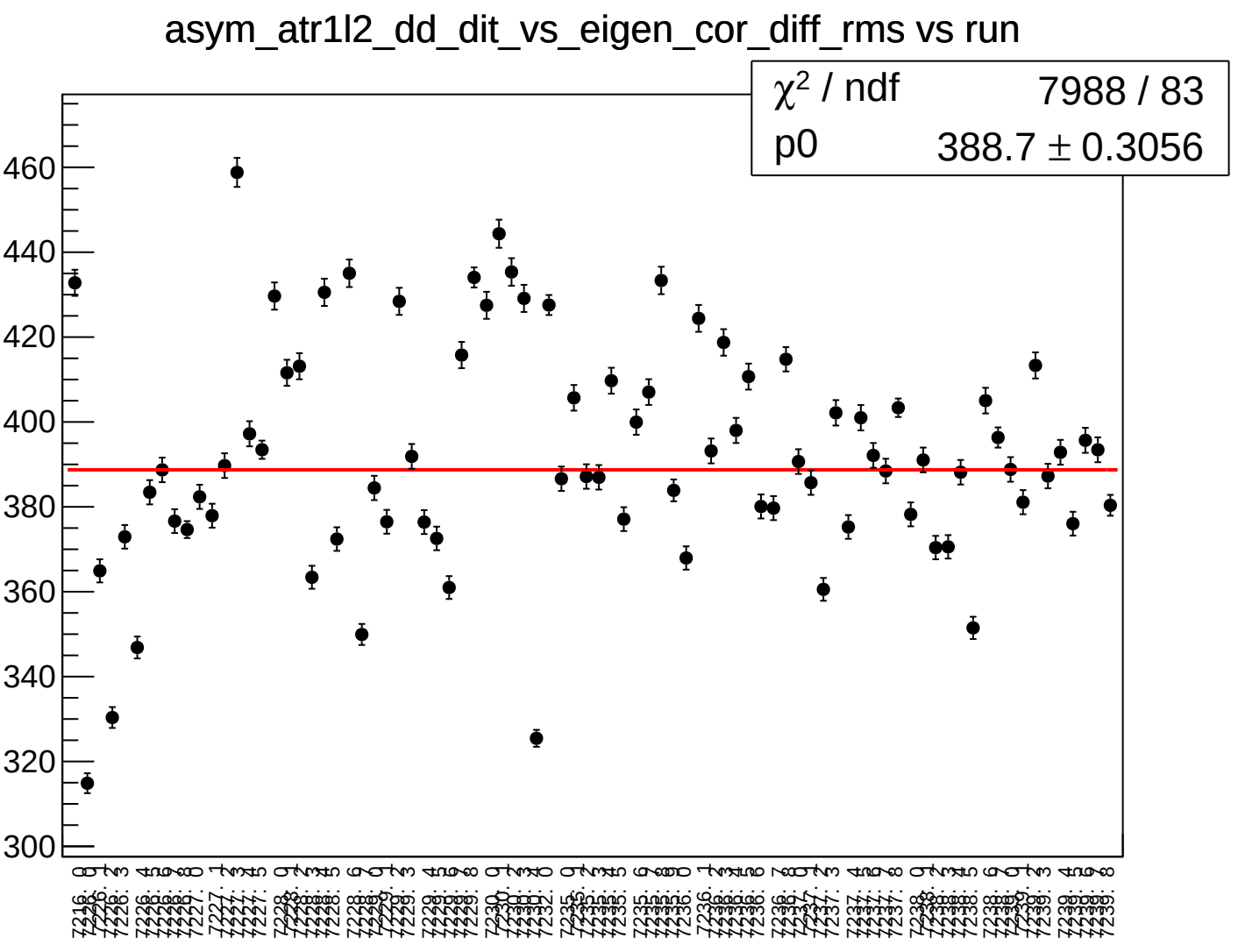

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.098e+06 / 83
p0 6.8e−11 ± 9.355e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

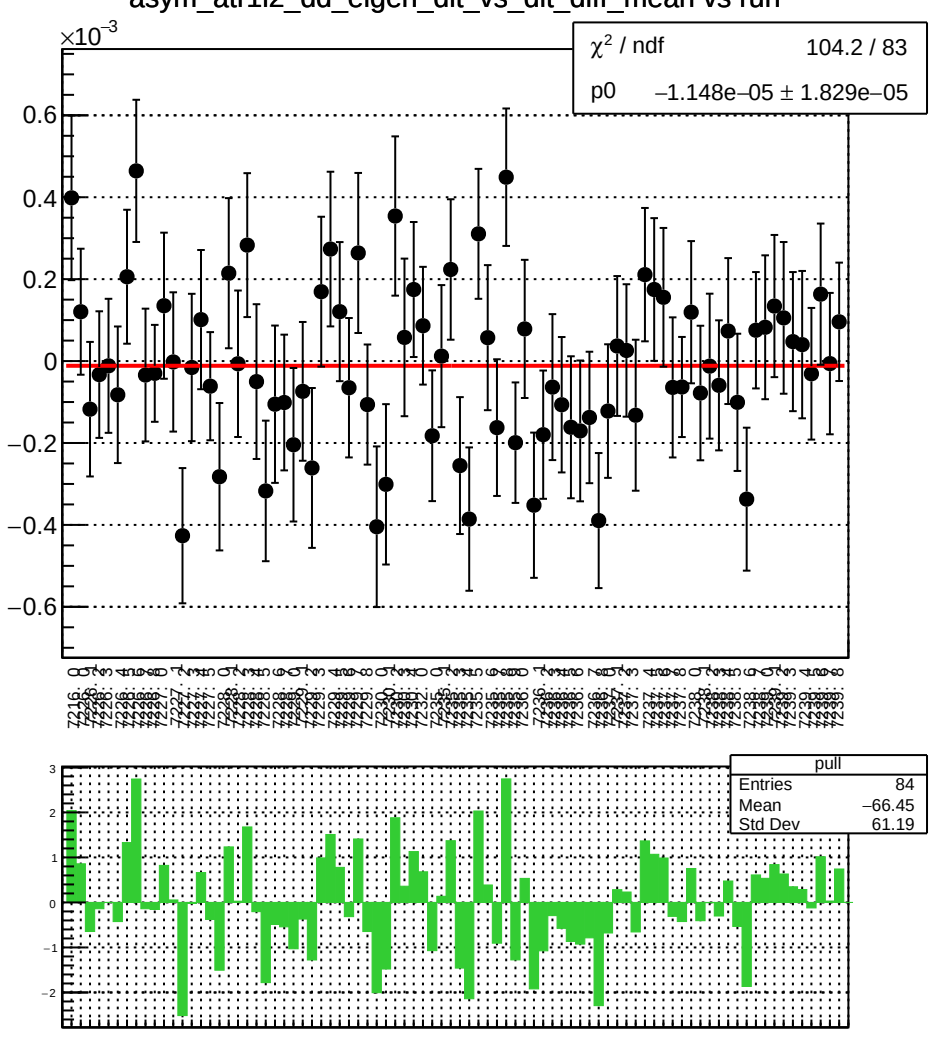

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 111.6 / 83
p0 −0.09589 ± 0.4321
pull
Entries 84
Mean −18
Std Dev 0

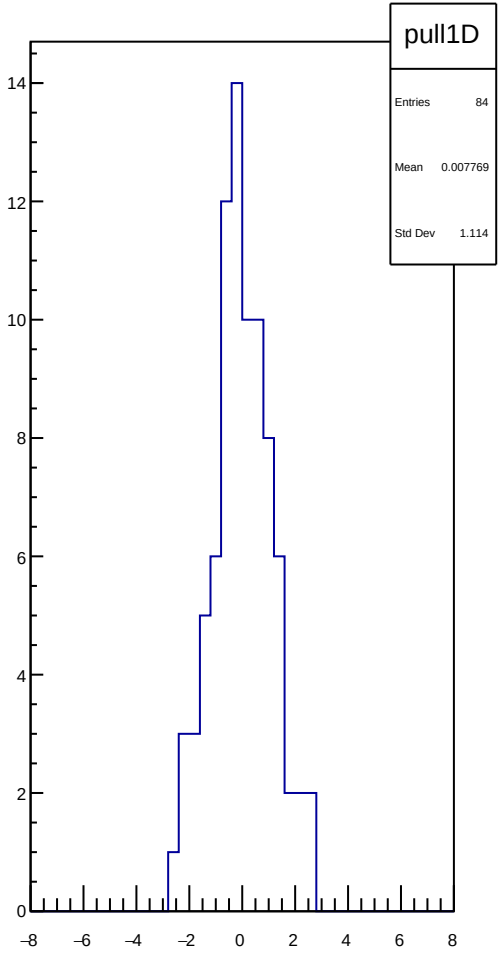

pull1D
Entries 84
Mean 0.008166
Std Dev 1.152

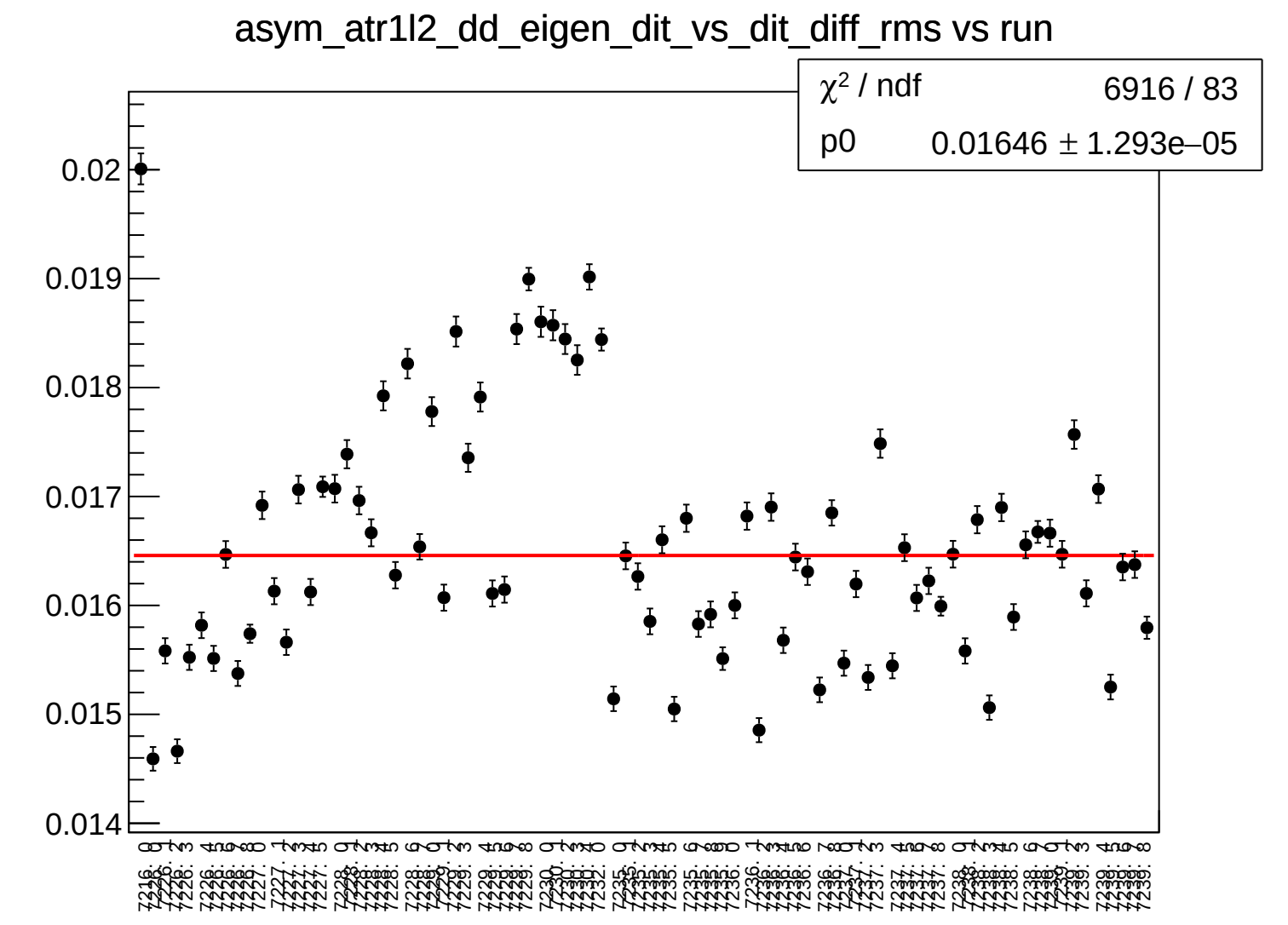

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7988 / 83
p0 388.7 ± 0.3056
460
440
420
400
380
360
340
320
300

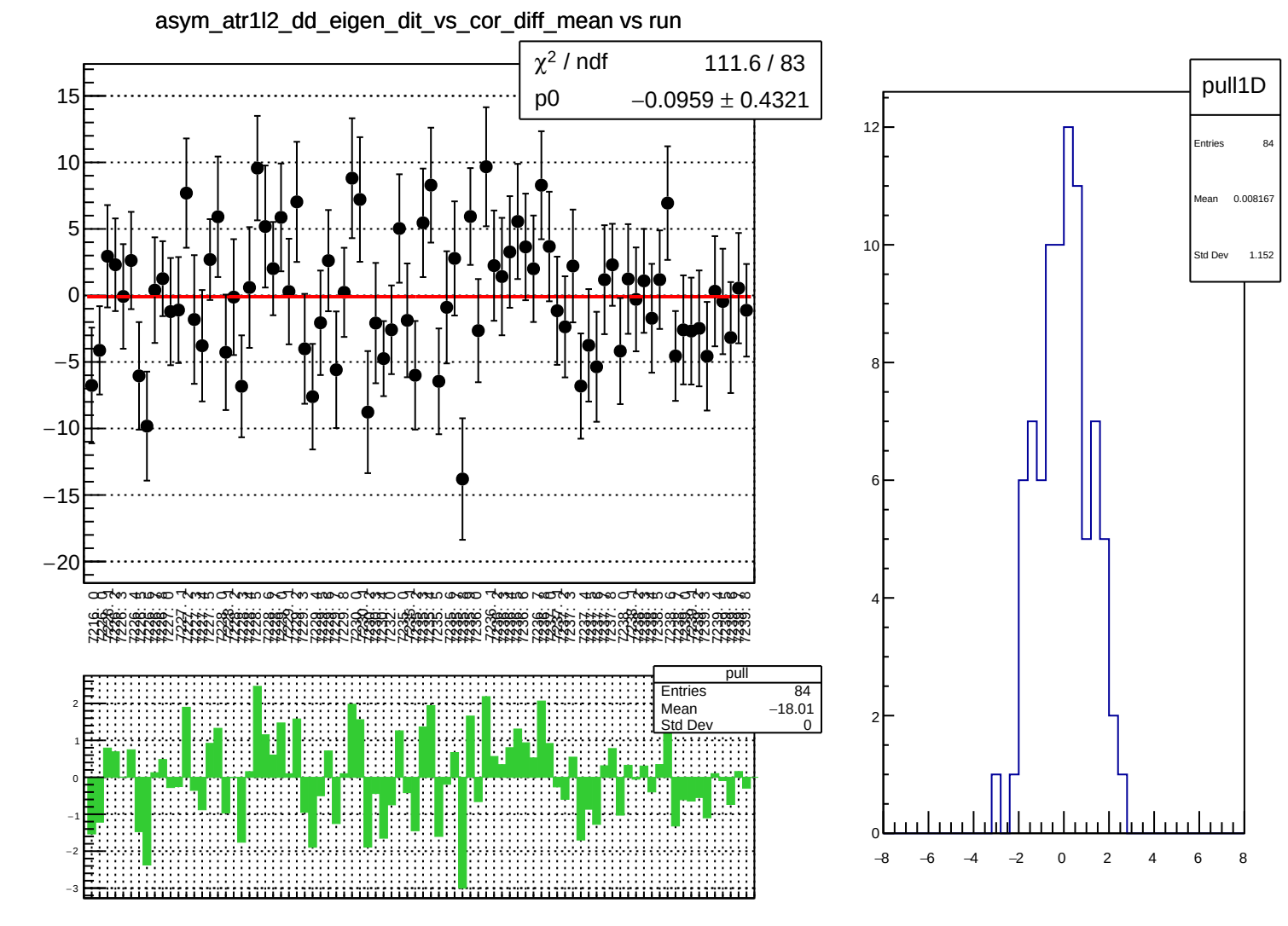

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 111.6 / 83
p0 −0.09589 ± 0.4321
pull
Entries 84
Mean −18
Std Dev 0
pull1D
Entries 84
Mean 0.008166
Std Dev 1.152

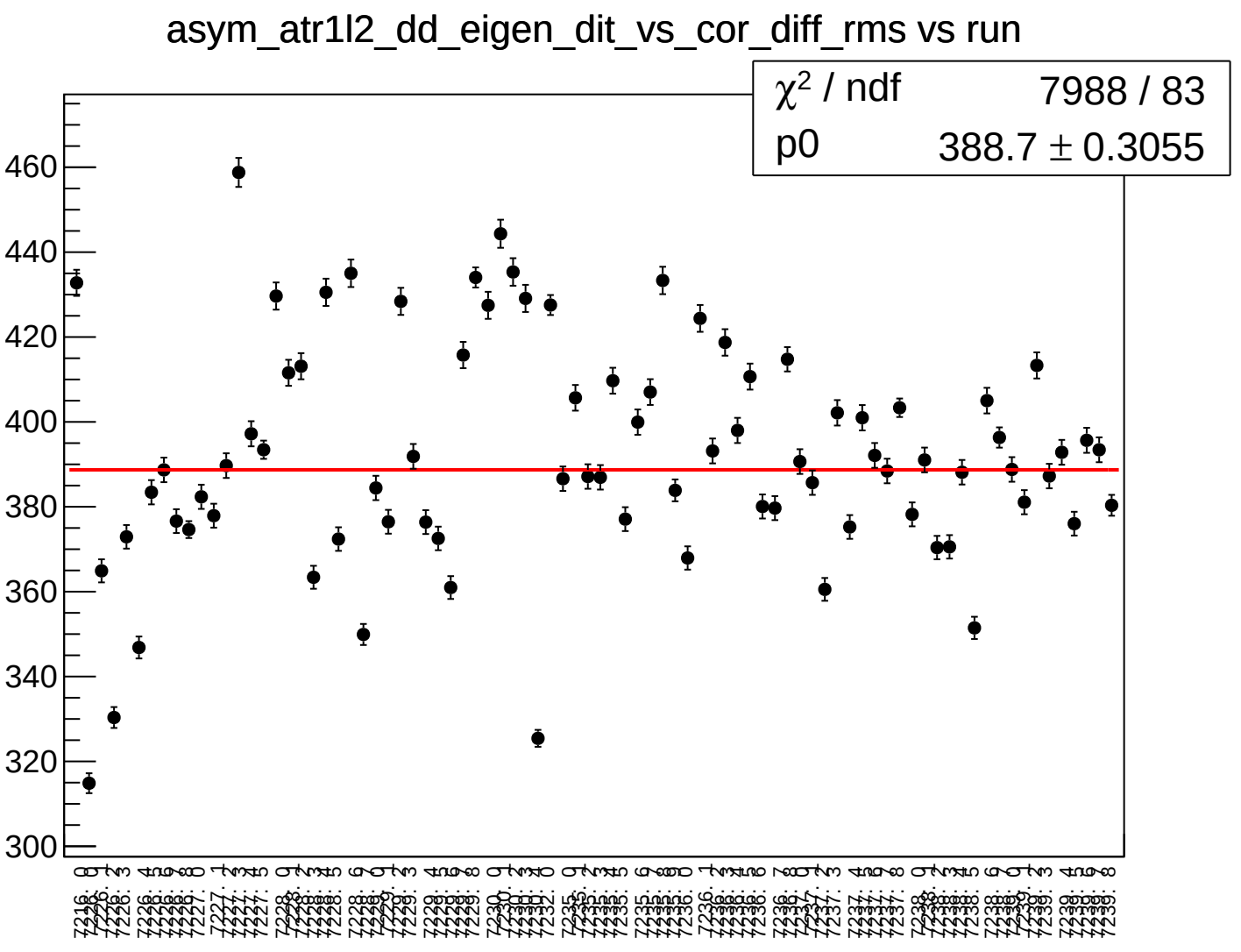

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7988 / 83
p0 388.7 ± 0.3056
460
440
420
400
380
360
340
320
300

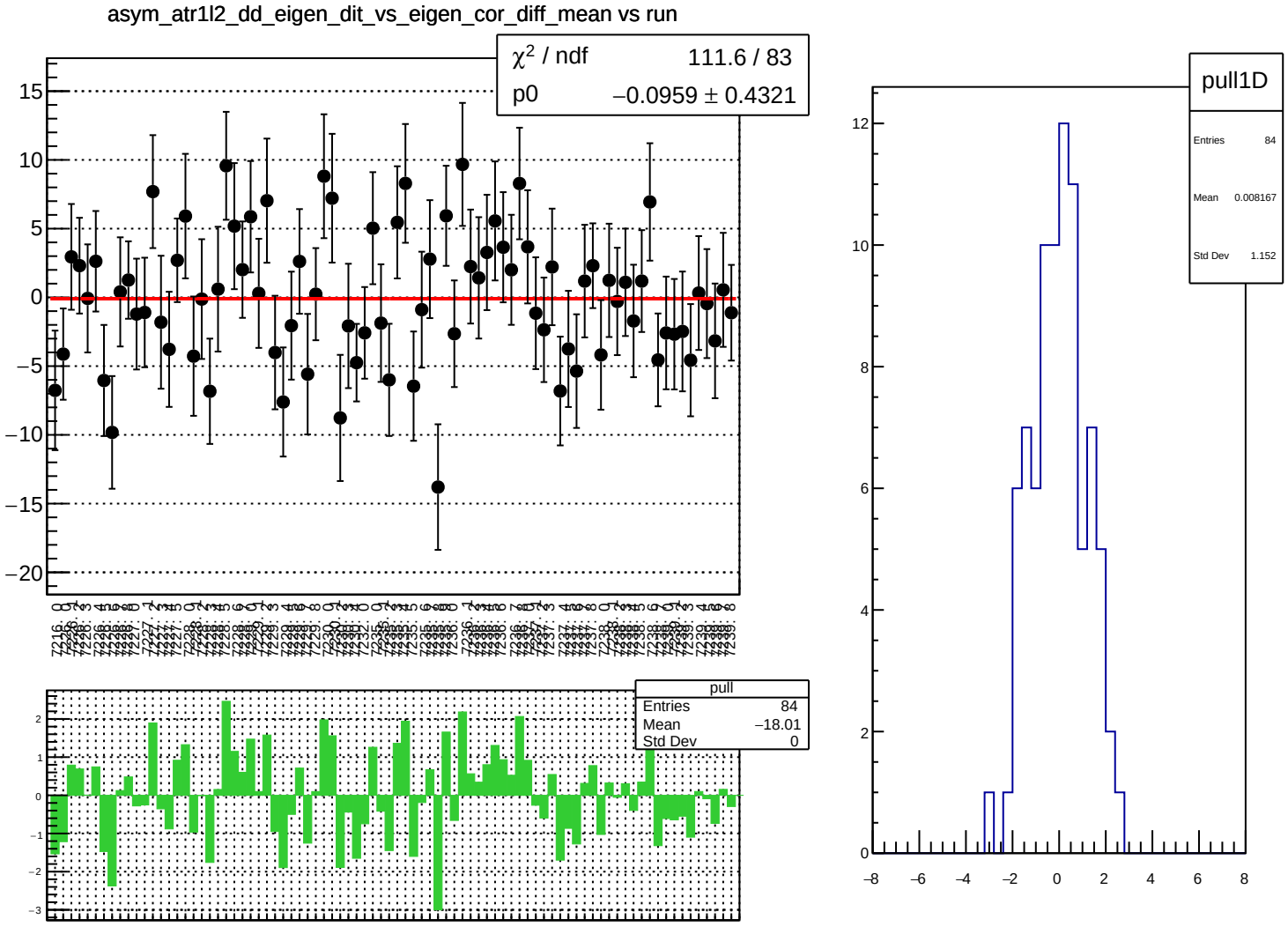

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 104.2 / 83
p0 −1.148e−05 ± 1.829e−05
pull
Entries 84
Mean −66.45
Std Dev 61.19

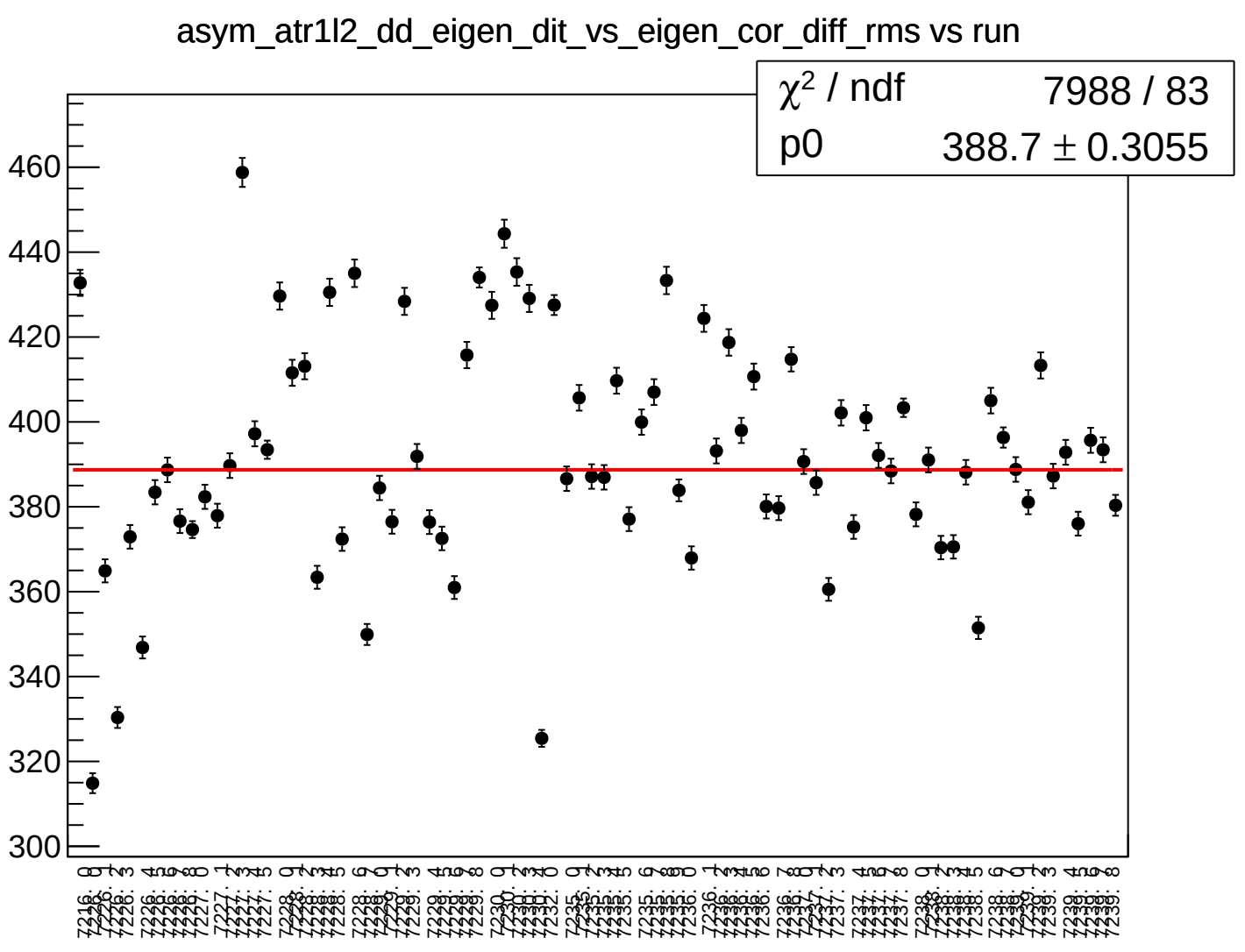

pull1D
Entries 84
Mean 0.007769
Std Dev 1.114

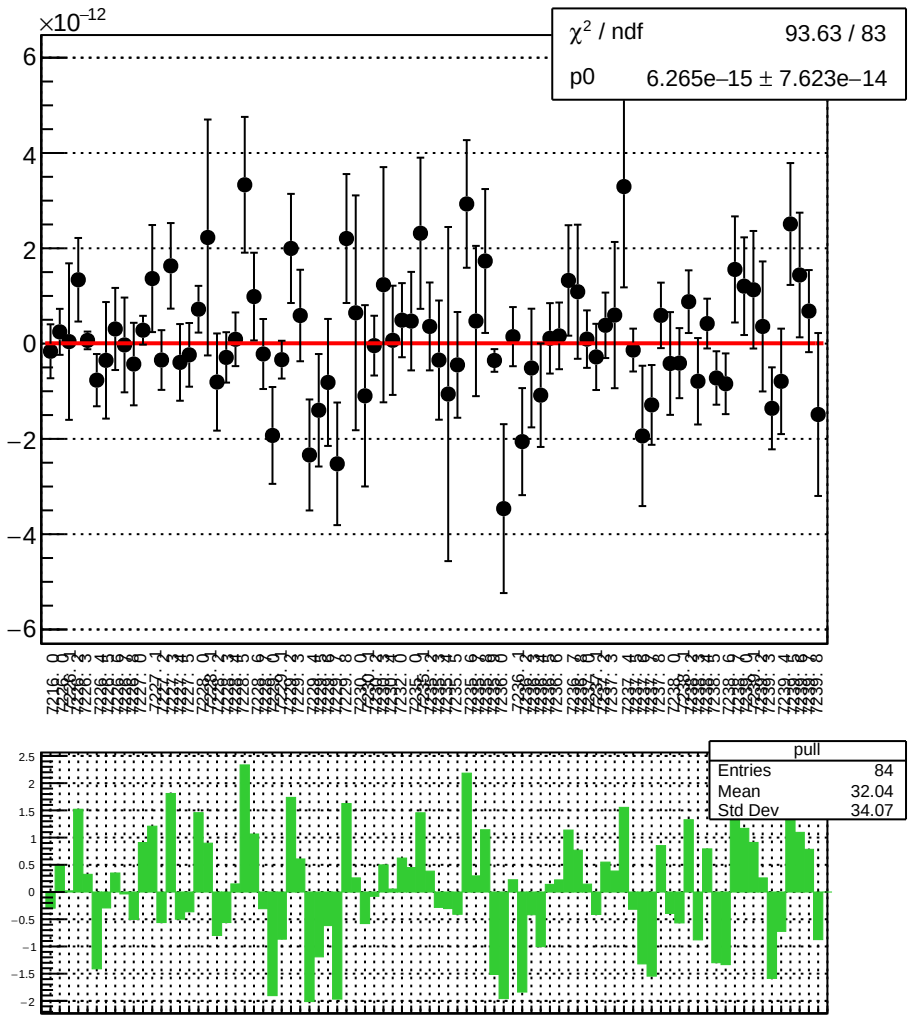

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6916 / 83
p0 0.01646 ± 1.293e−05
0.02
0.019
0.018
0.017
0.016
0.015
0.014

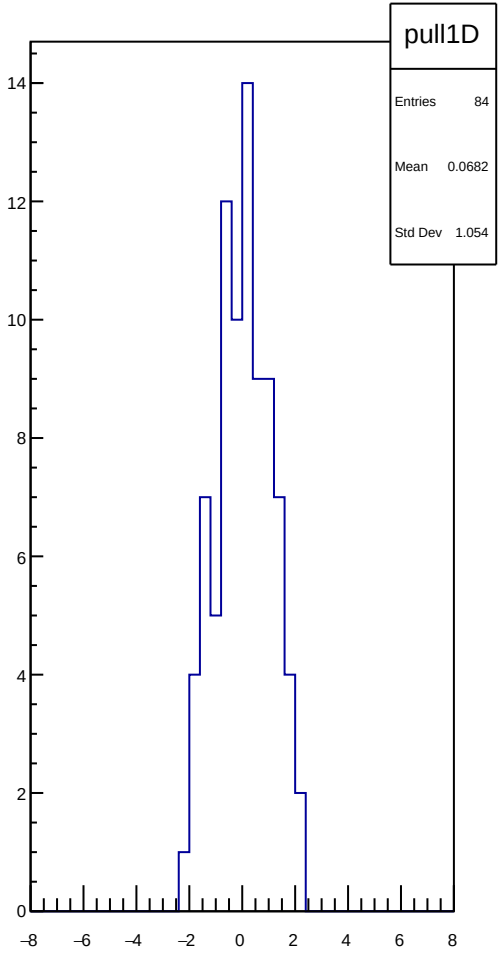

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 111.6 / 83
p0 −0.0959 ± 0.4321
pull
Entries 84
Mean −18.01
Std Dev 0
pull1D
Entries 84
Mean 0.008167
Std Dev 1.152

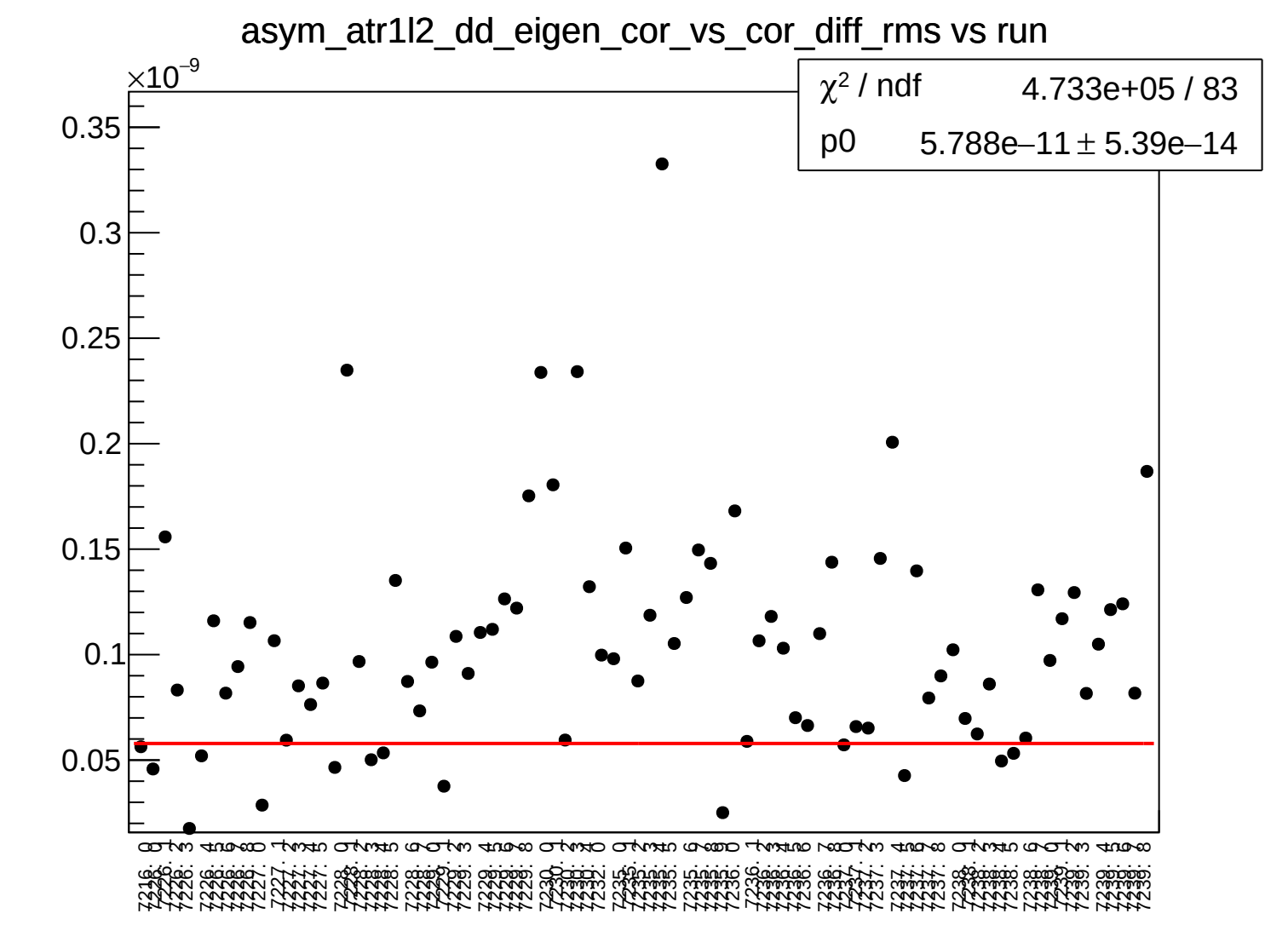

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7988 / 83
p0 388.7 ± 0.3055
460
440
420
400
380
360
340
320
300

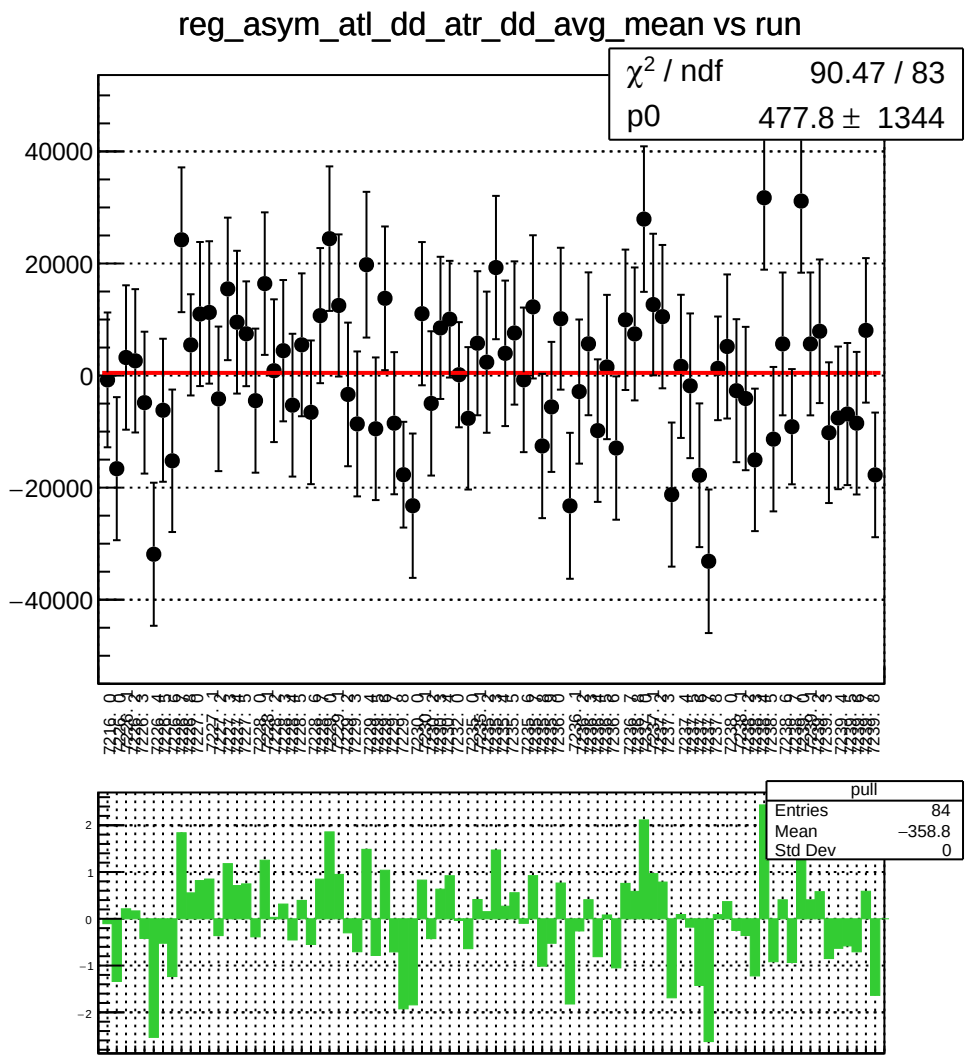

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 111.6 / 83
p0 −0.0959 ± 0.4321
pull
Entries 84
Mean −18.01
Std Dev 0
pull1D
Entries 84
Mean 0.008167
Std Dev 1.152

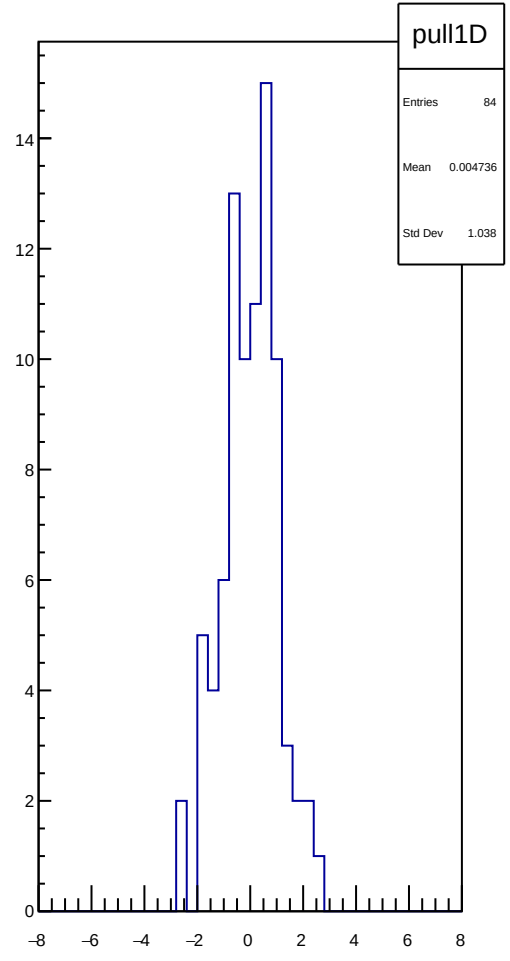

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7988 / 83
p0 388.7 ± 0.3055
460
440
420
400
380
360
340
320
300

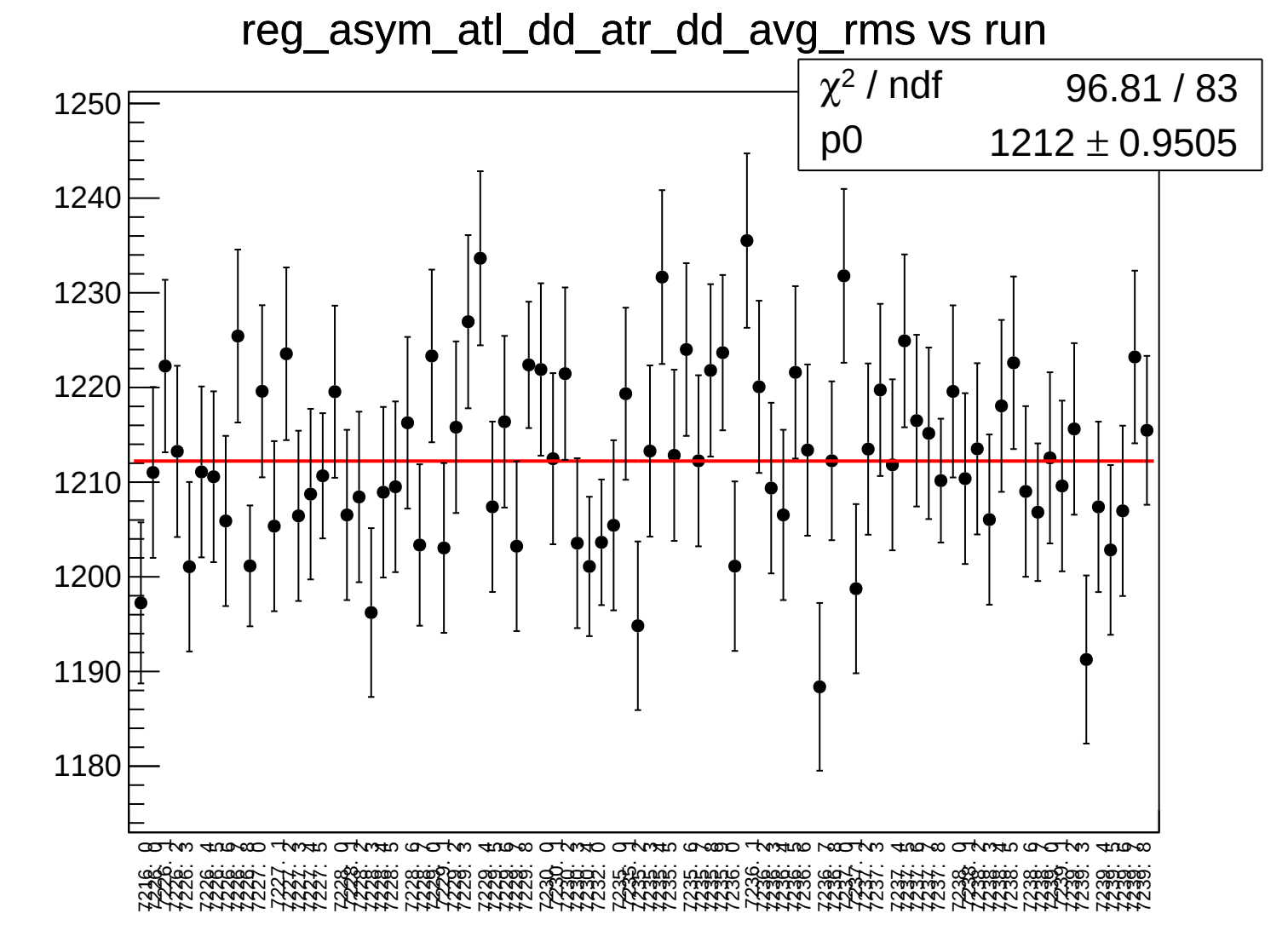

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.63 / 83
p0 6.265e−15 ± 7.623e−14
pull
Entries 84
Mean 32.04
Std Dev 34.07

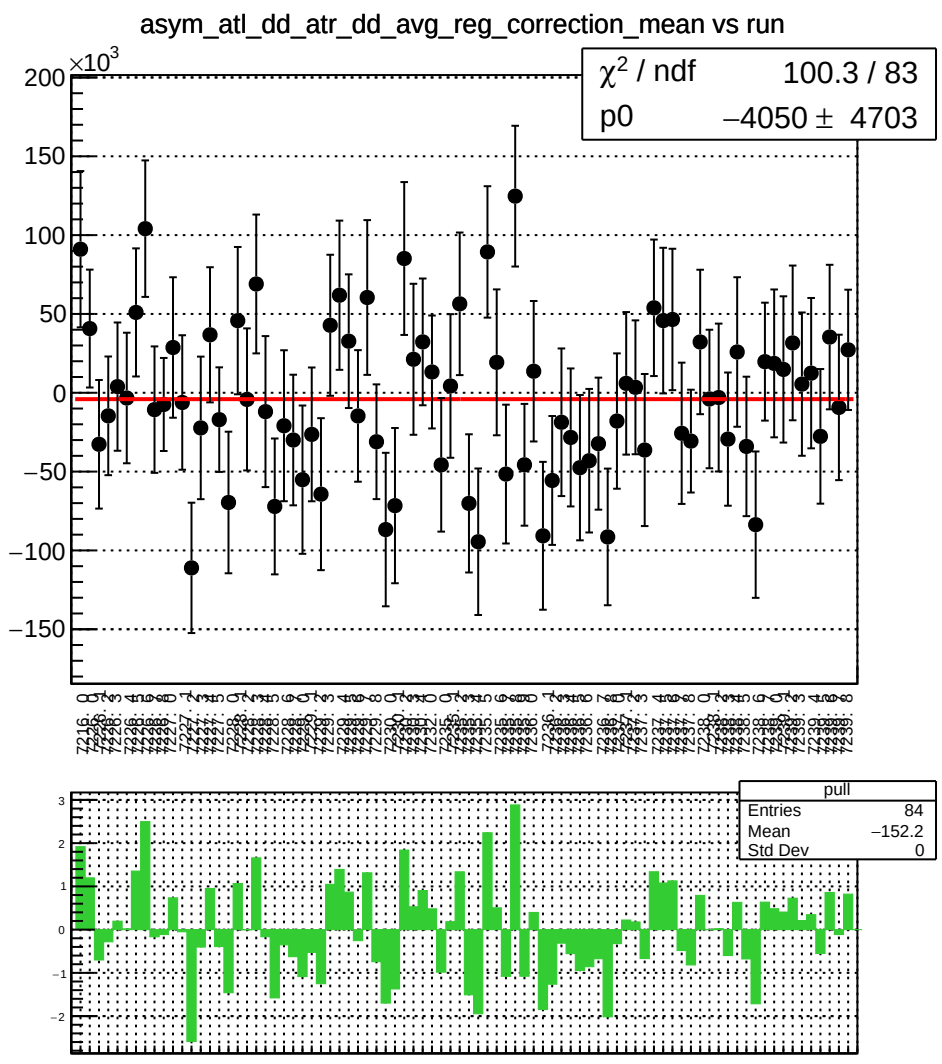

pull1D
Entries 84
Mean 0.0682
Std Dev 1.054

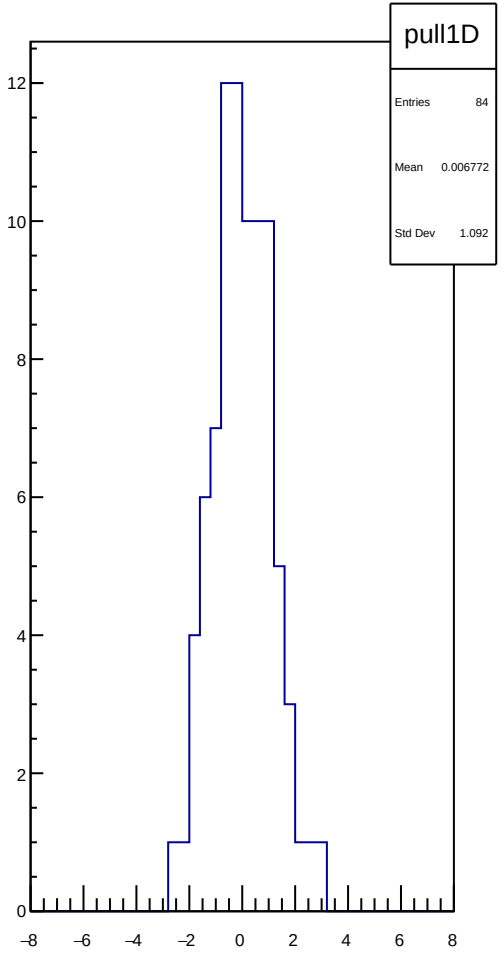

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.733e+05 / 83
p0 5.788e−11 ± 5.39e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

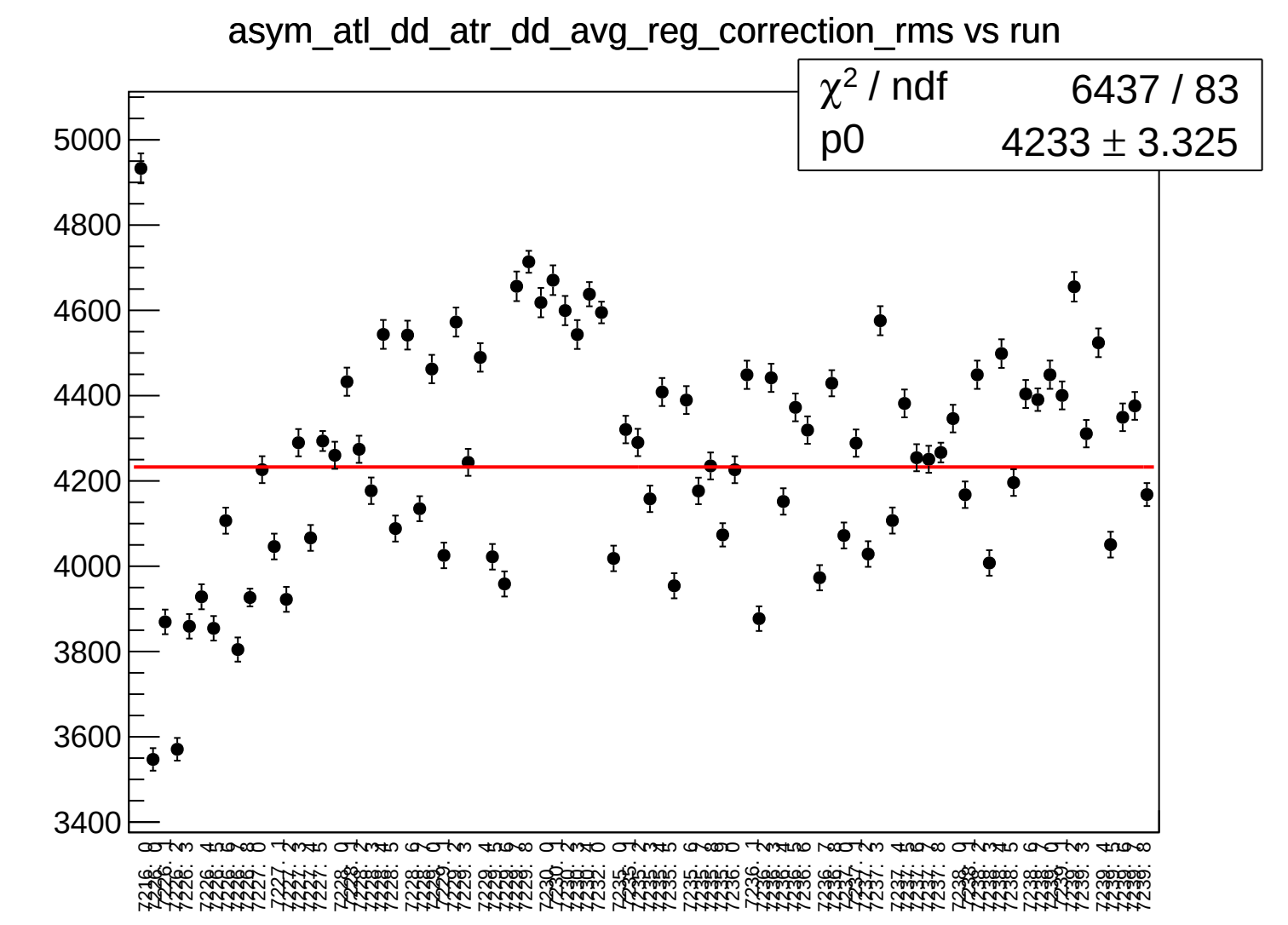

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 90.47 / 83
p0 477.8 ± 1344
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −358.8
Std Dev 0
2
1
0
−1
−2

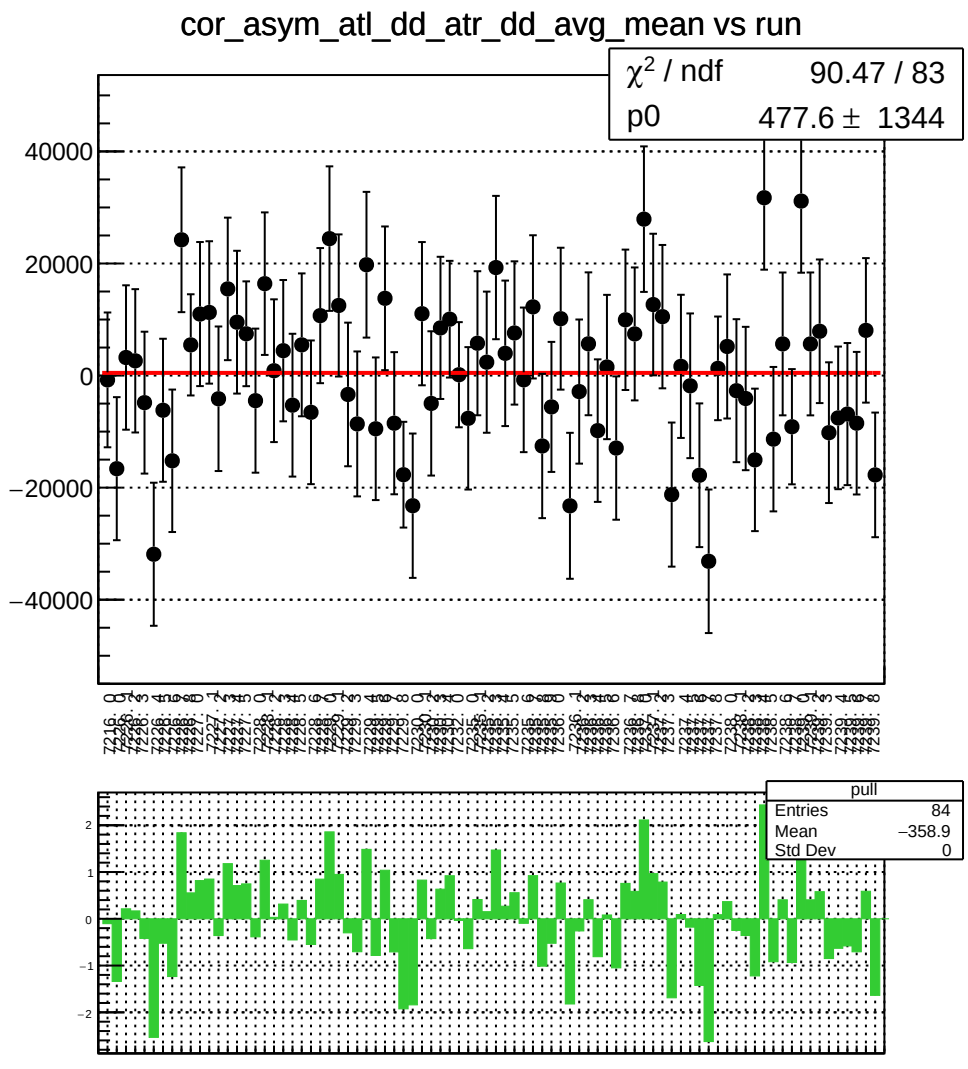

pull1D
Entries 84
Mean 0.004736
Std Dev 1.038
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

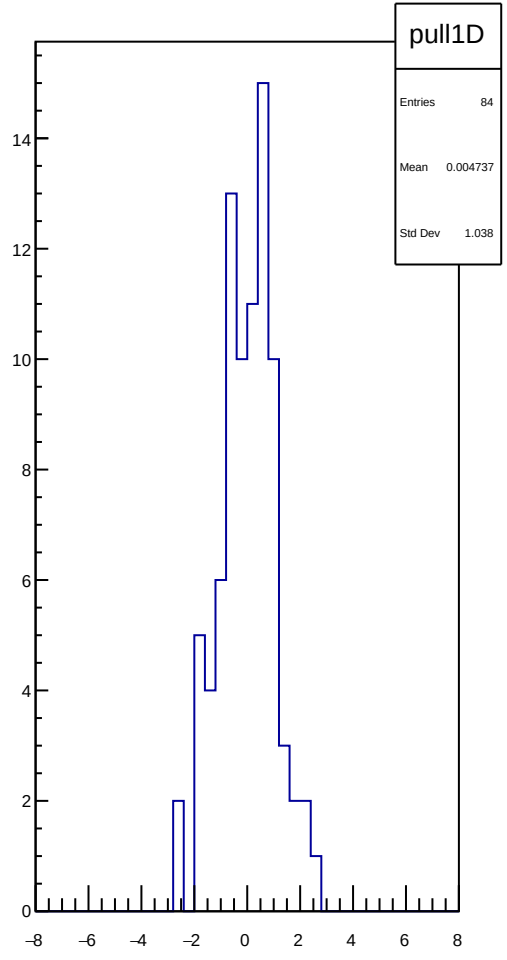

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ^2 / ndf 96.81 / 83
p0 1212 ± 0.9505
1250
1240
1230
1220
1210
1200
1190
1180

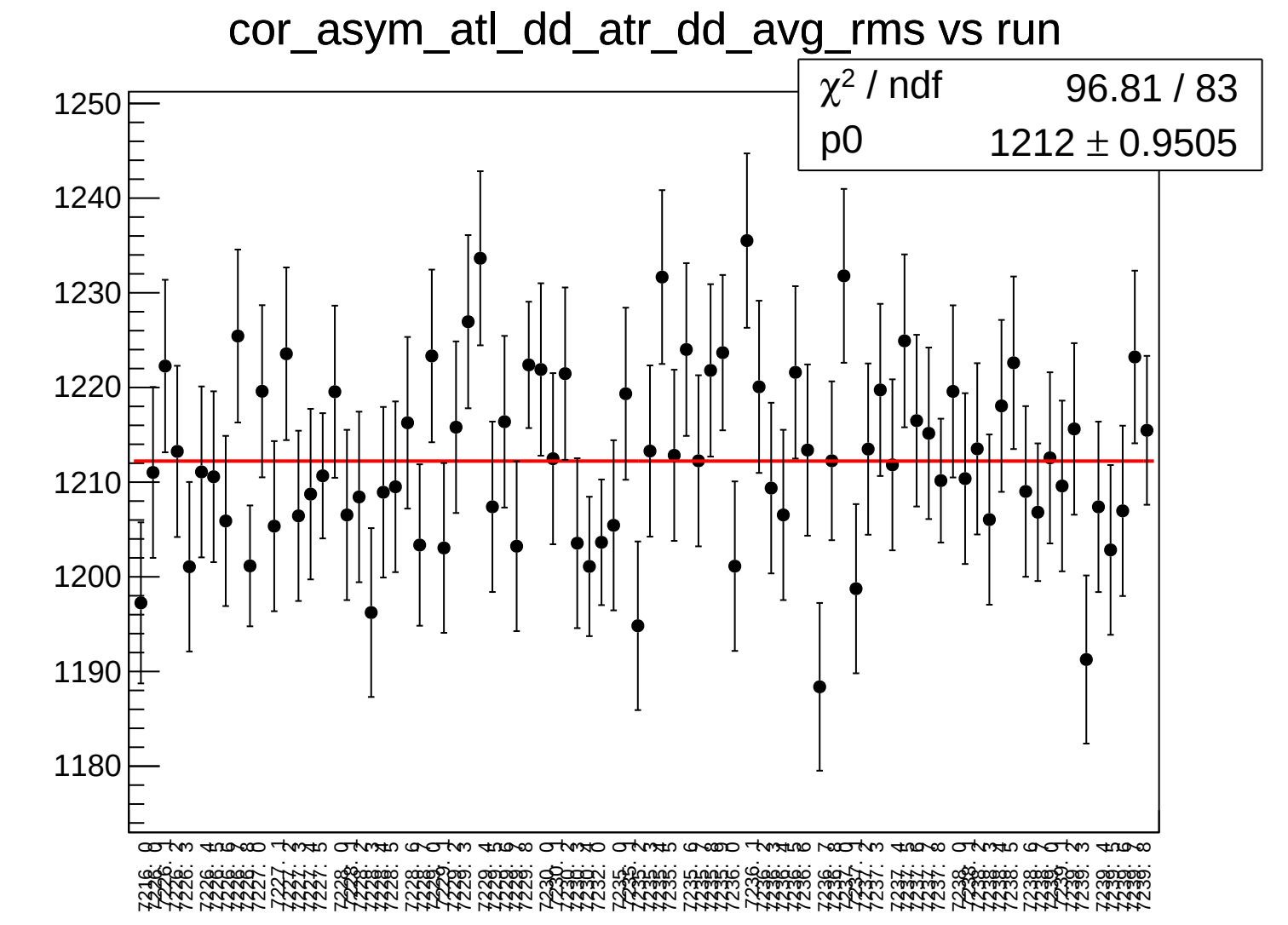

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 100.3 / 83
p0 −4050 ± 4703
pull
Entries 84
Mean −152.2
Std Dev 0

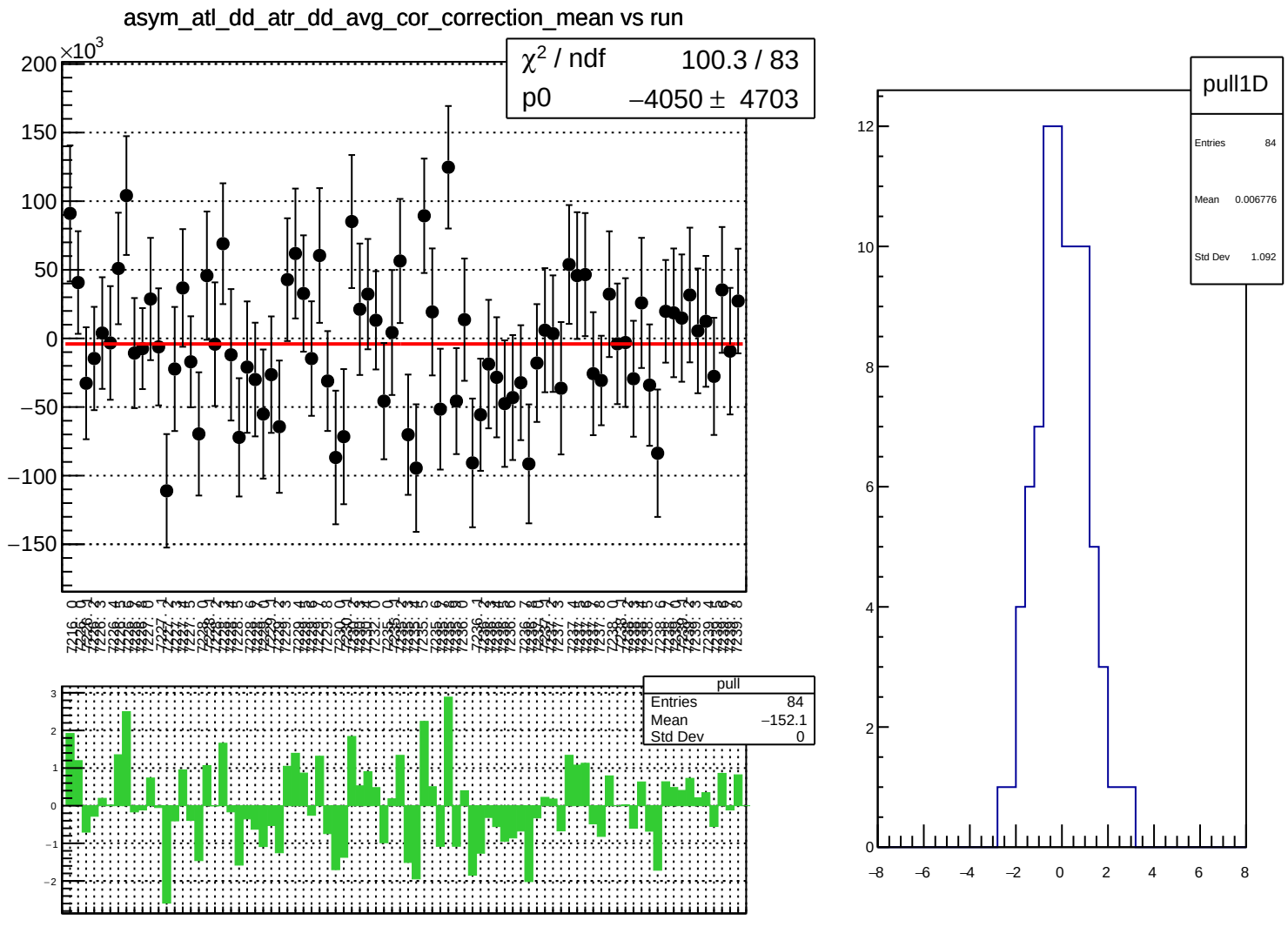

pull1D
Entries 84
Mean 0.006772
Std Dev 1.092

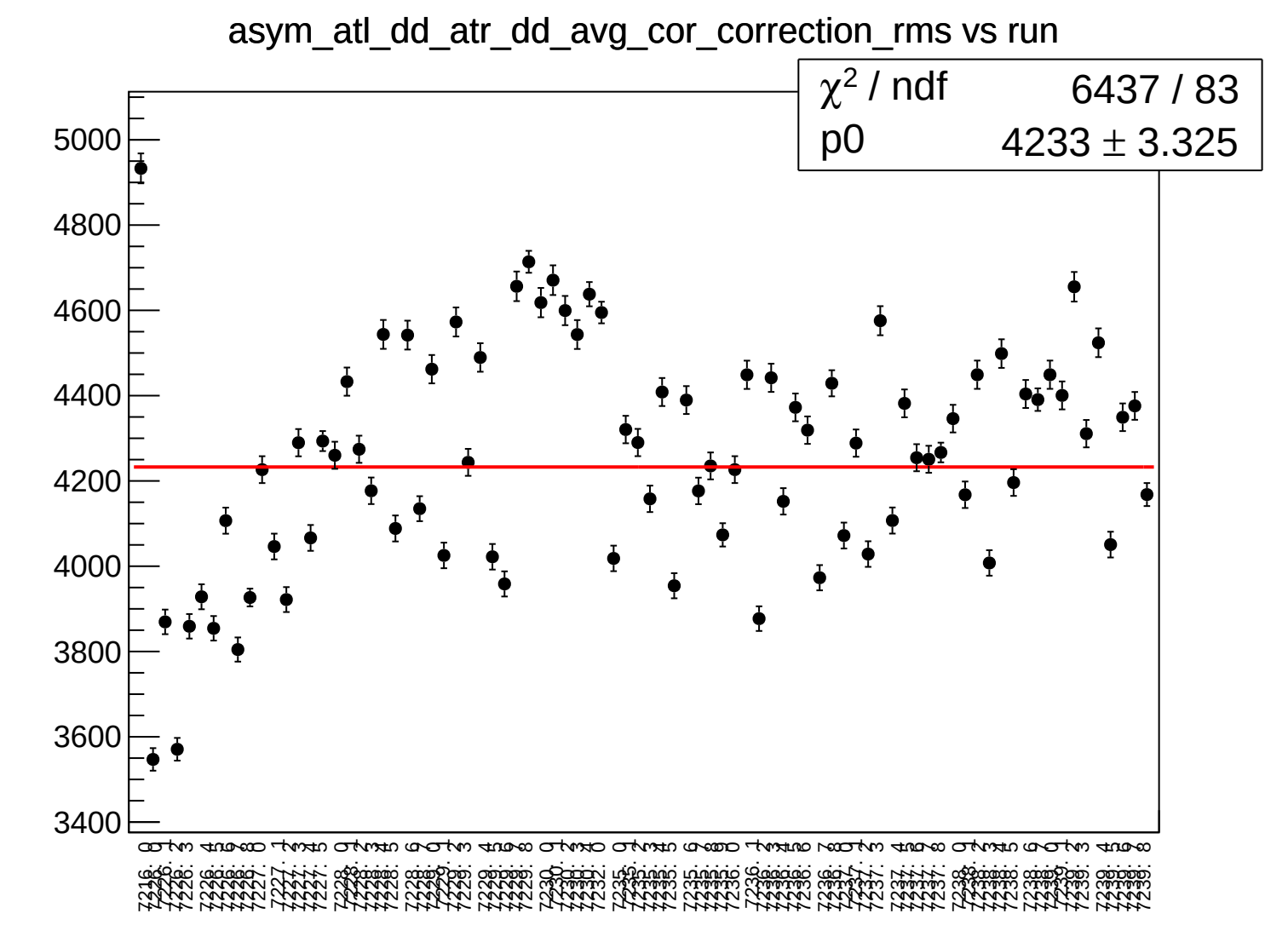

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 6437 / 83
p0 4233 ± 3.325
5000
4800
4600
4400
4200
4000
3800
3600
3400

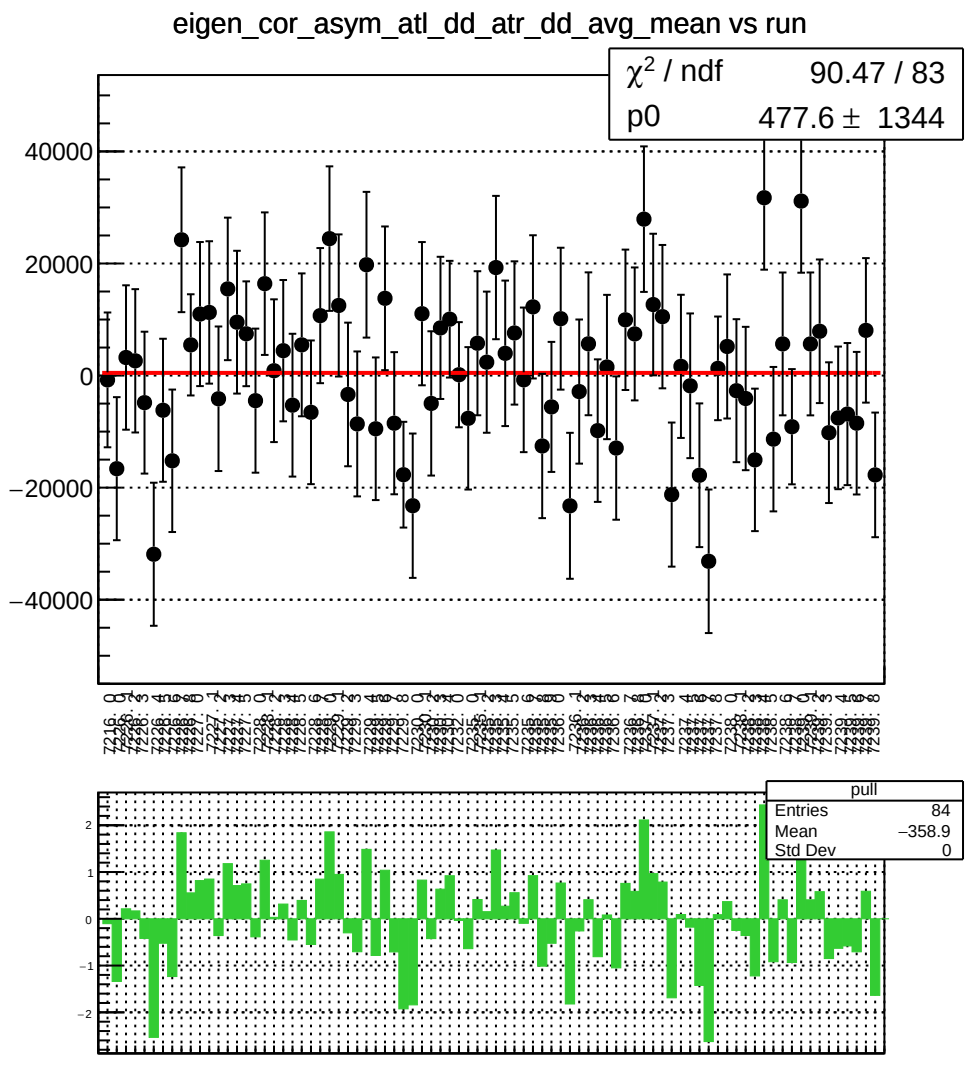

cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 90.47 / 83
p0 477.6 ± 1344
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −358.9
Std Dev 0
2
1
0
−1
−2

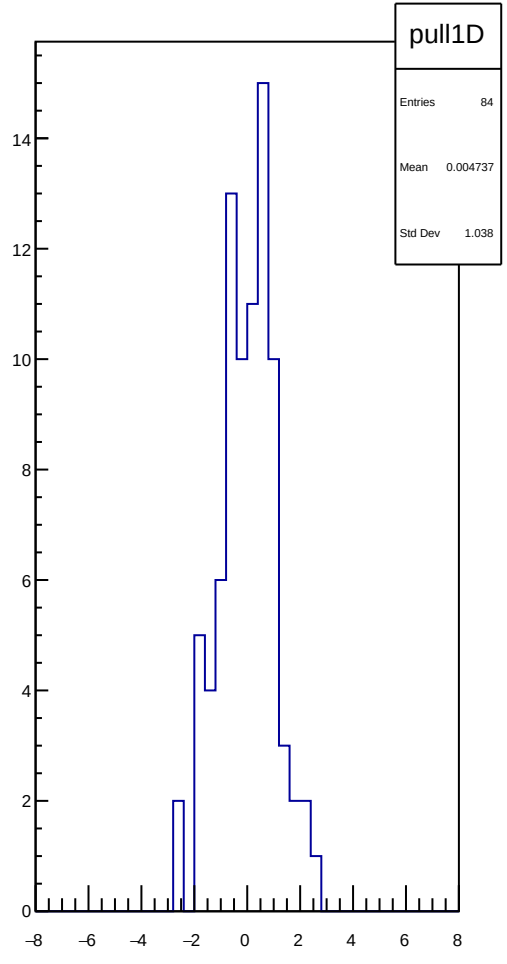

pull1D
Entries 84
Mean 0.004737
Std Dev 1.038
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

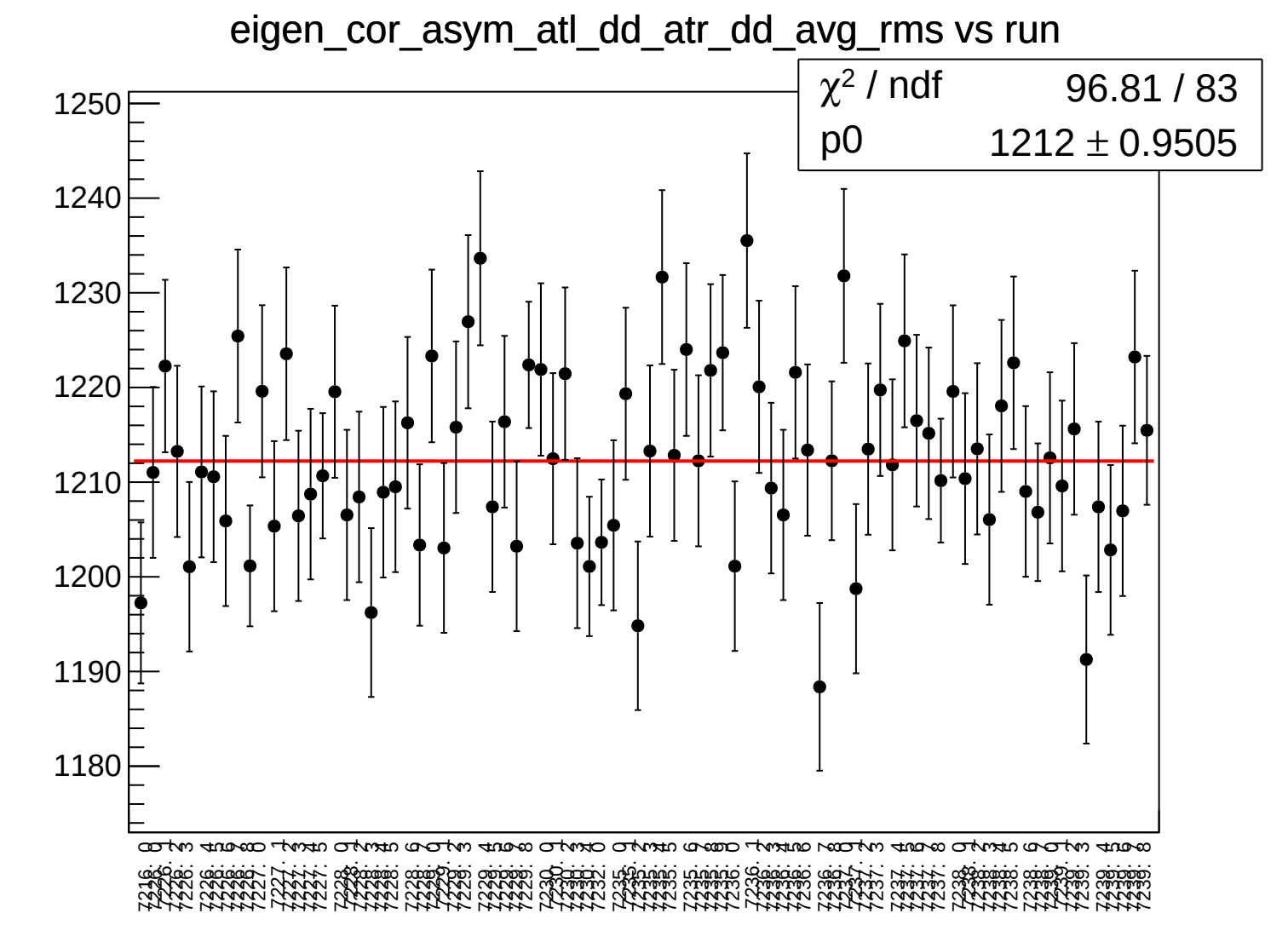

cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 96.81 / 83
p0 1212 ± 0.9505
1250
1240
1230
1220
1210
1200
1190
1180

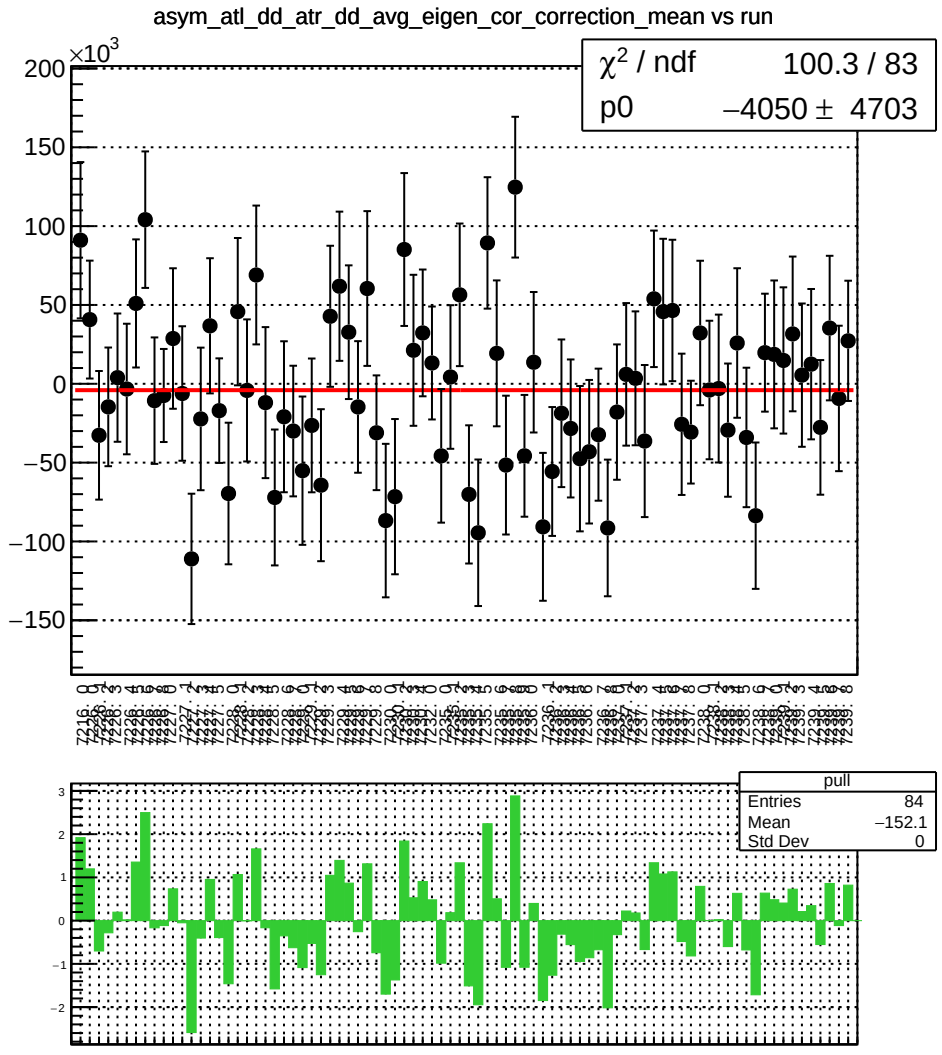

asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 100.3 / 83
p0 −4050 ± 4703
pull
Entries 84
Mean −152.1
Std Dev 0
pull1D
Entries 84
Mean 0.006776
Std Dev 1.092

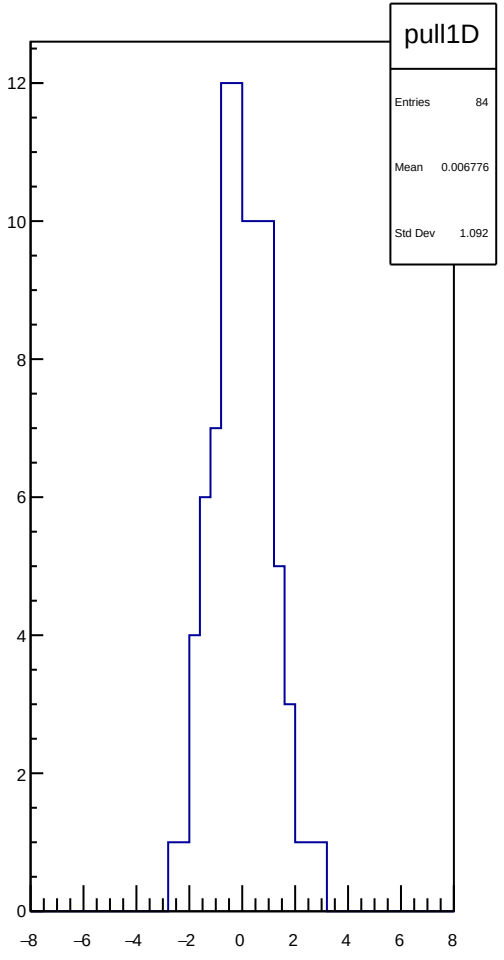

asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ^2 / ndf 6437 / 83
p0 4233 ± 3.325
5000
4800
4600
4400
4200
4000
3800
3600
3400

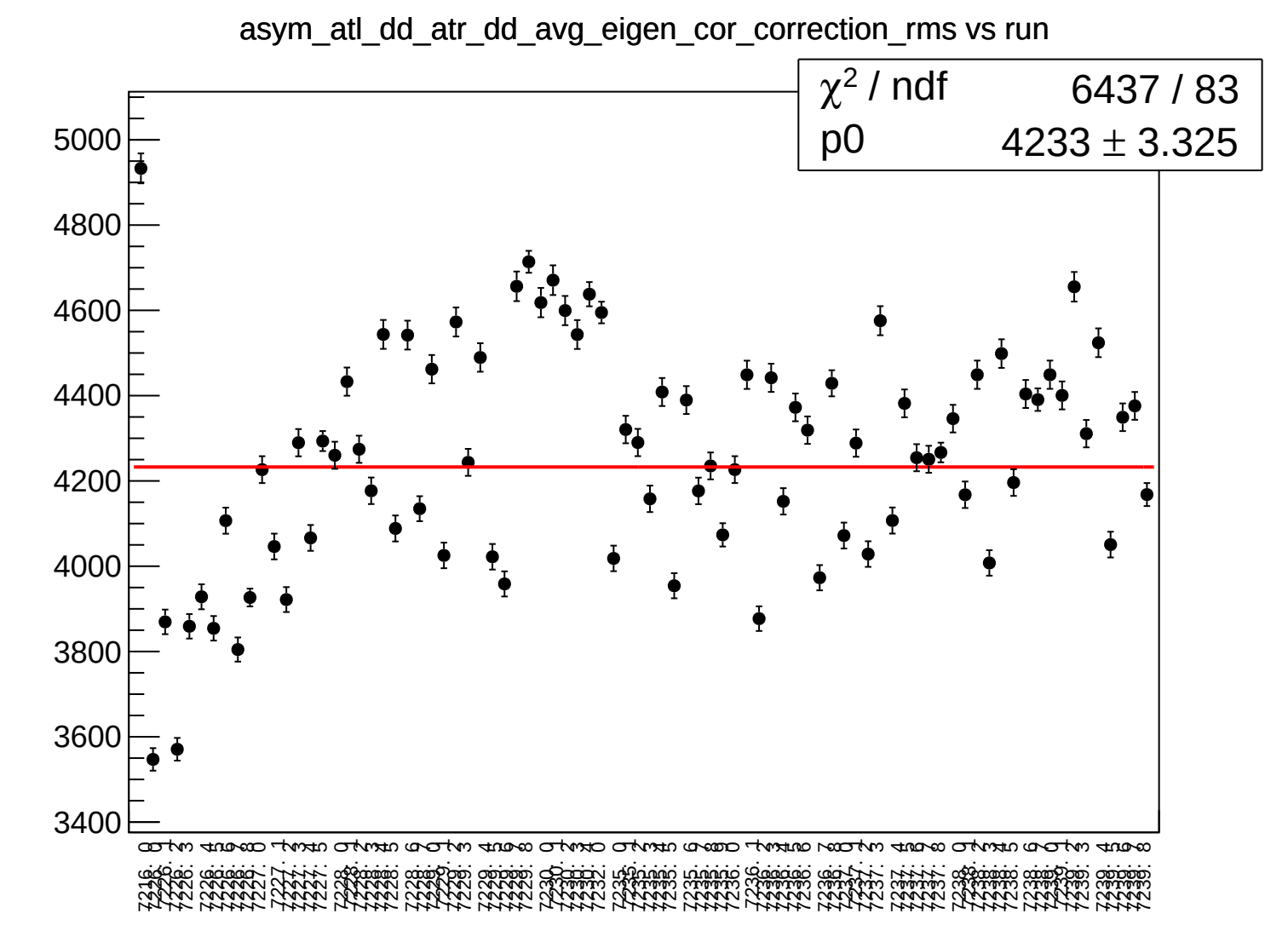

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 90.47 / 83
p0 477.6 ± 1344
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −358.9
Std Dev 0
2
1
0
−1
−2

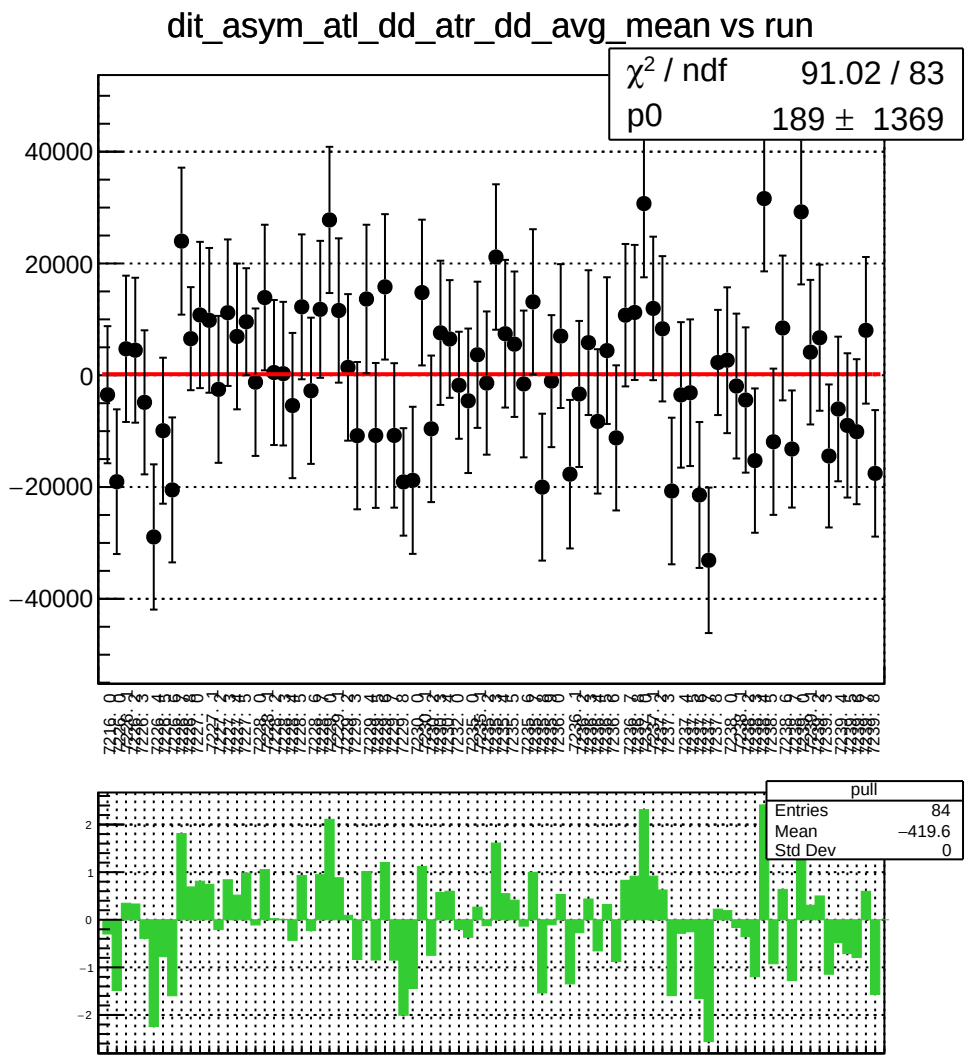

pull1D
Entries 84
Mean 0.004737
Std Dev 1.038
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

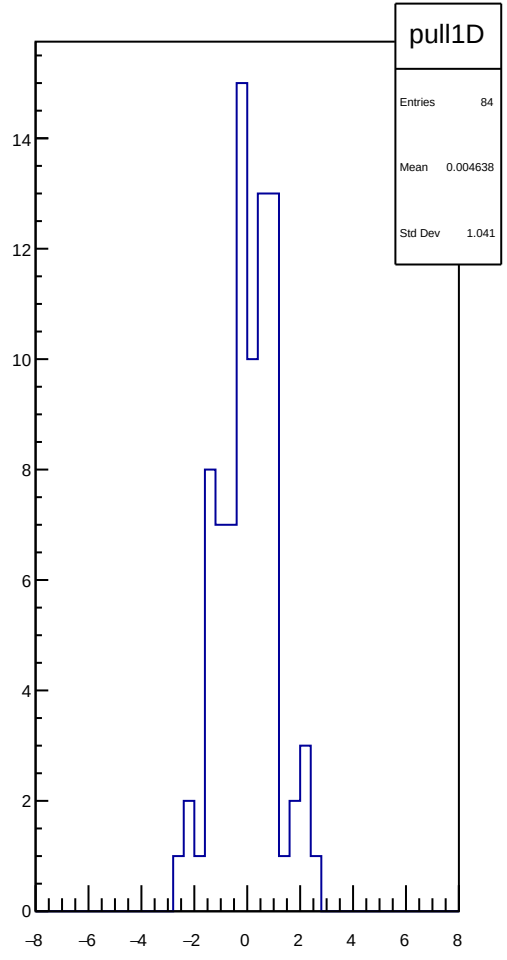

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 96.81 / 83
p0 1212 ± 0.9505
1250
1240
1230
1220
1210
1200
1190
1180

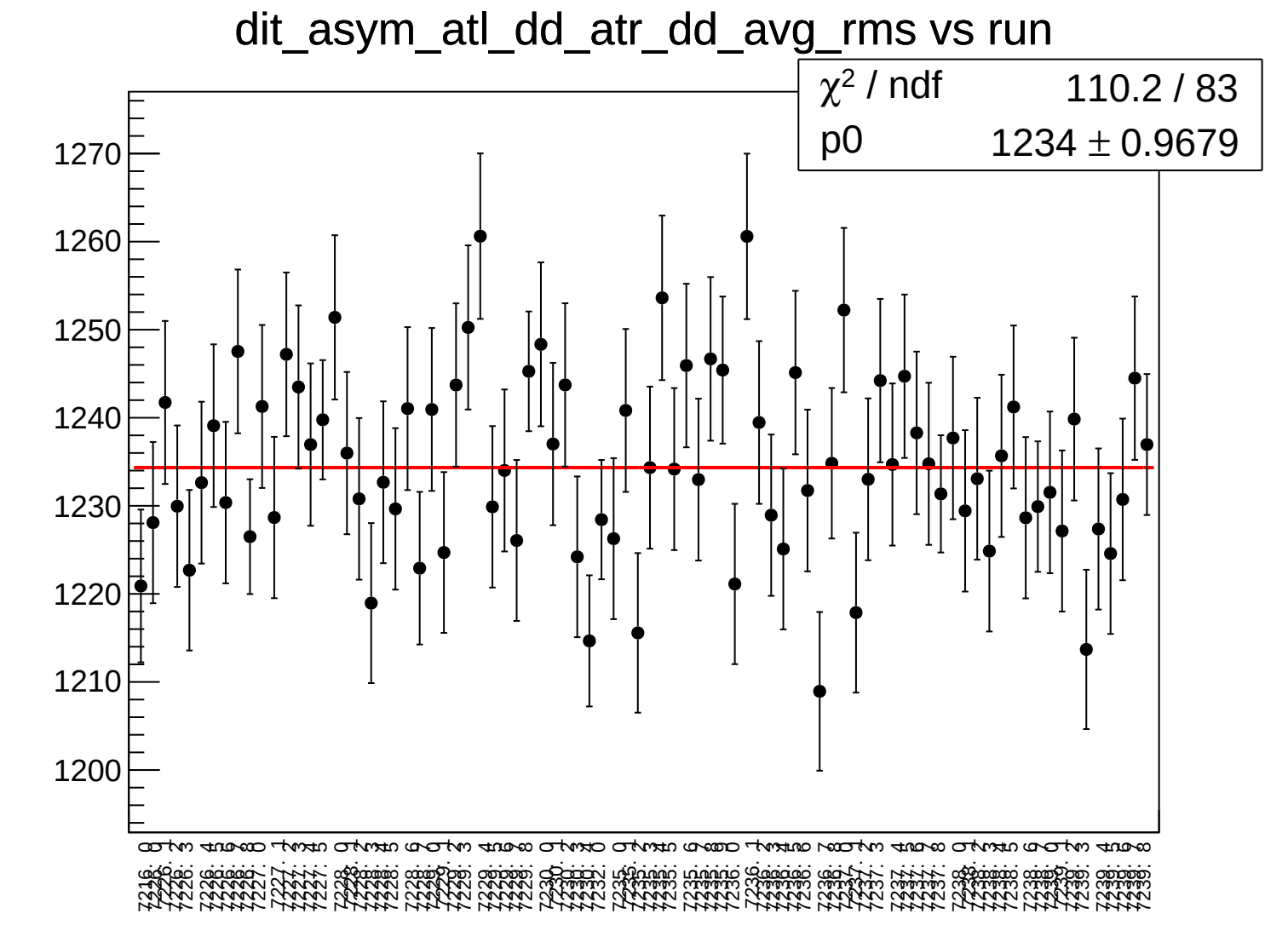

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 100.3 / 83
p0 −4050 ± 4703
pull
Entries 84
Mean −152.1
Std Dev 0

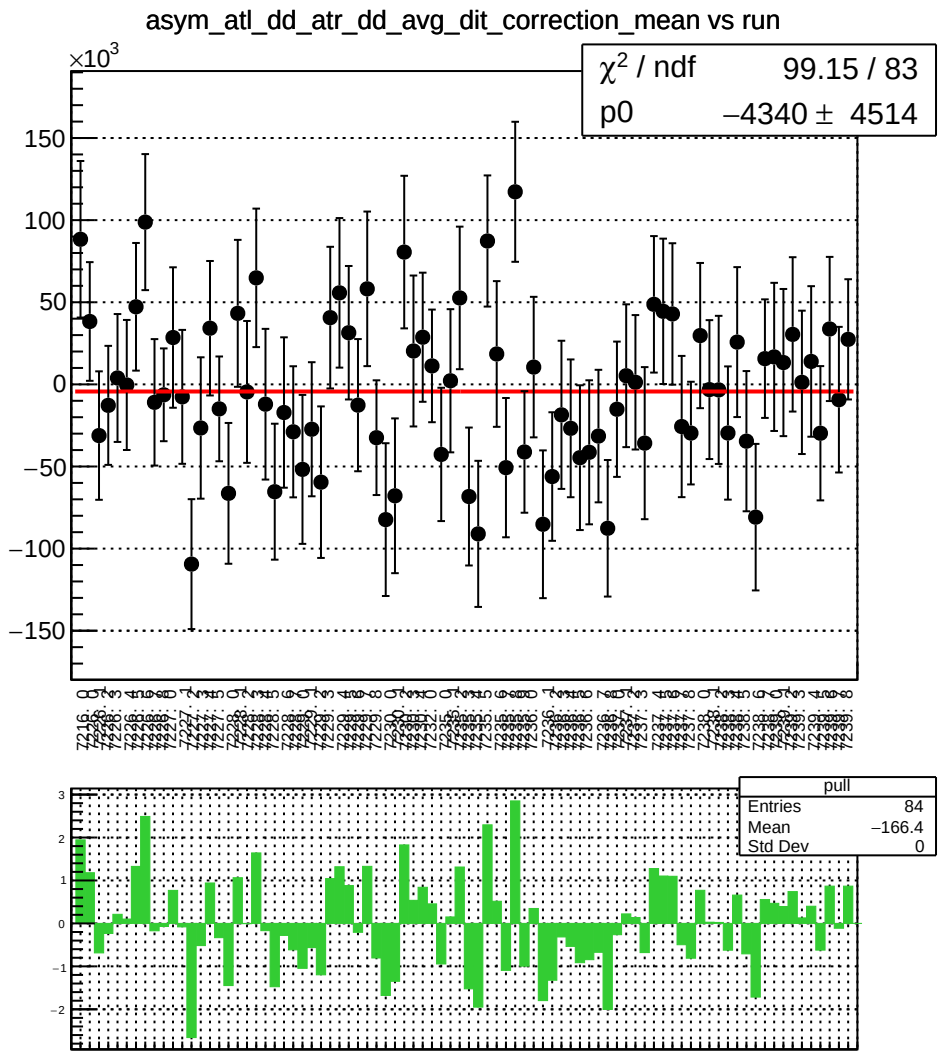

pull1D
Entries 84
Mean 0.006776
Std Dev 1.092

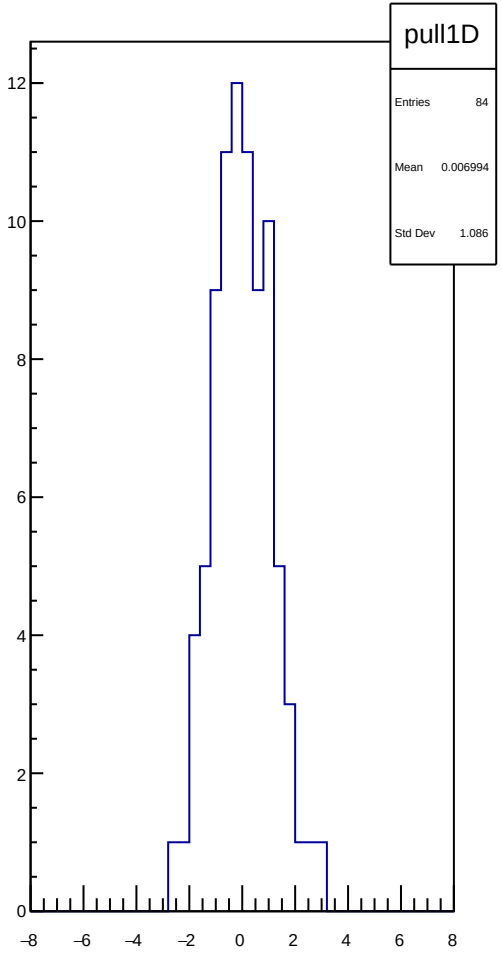

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 6437 / 83
p0 4233 ± 3.325
5000
4800
4600
4400
4200
4000
3800
3600
3400

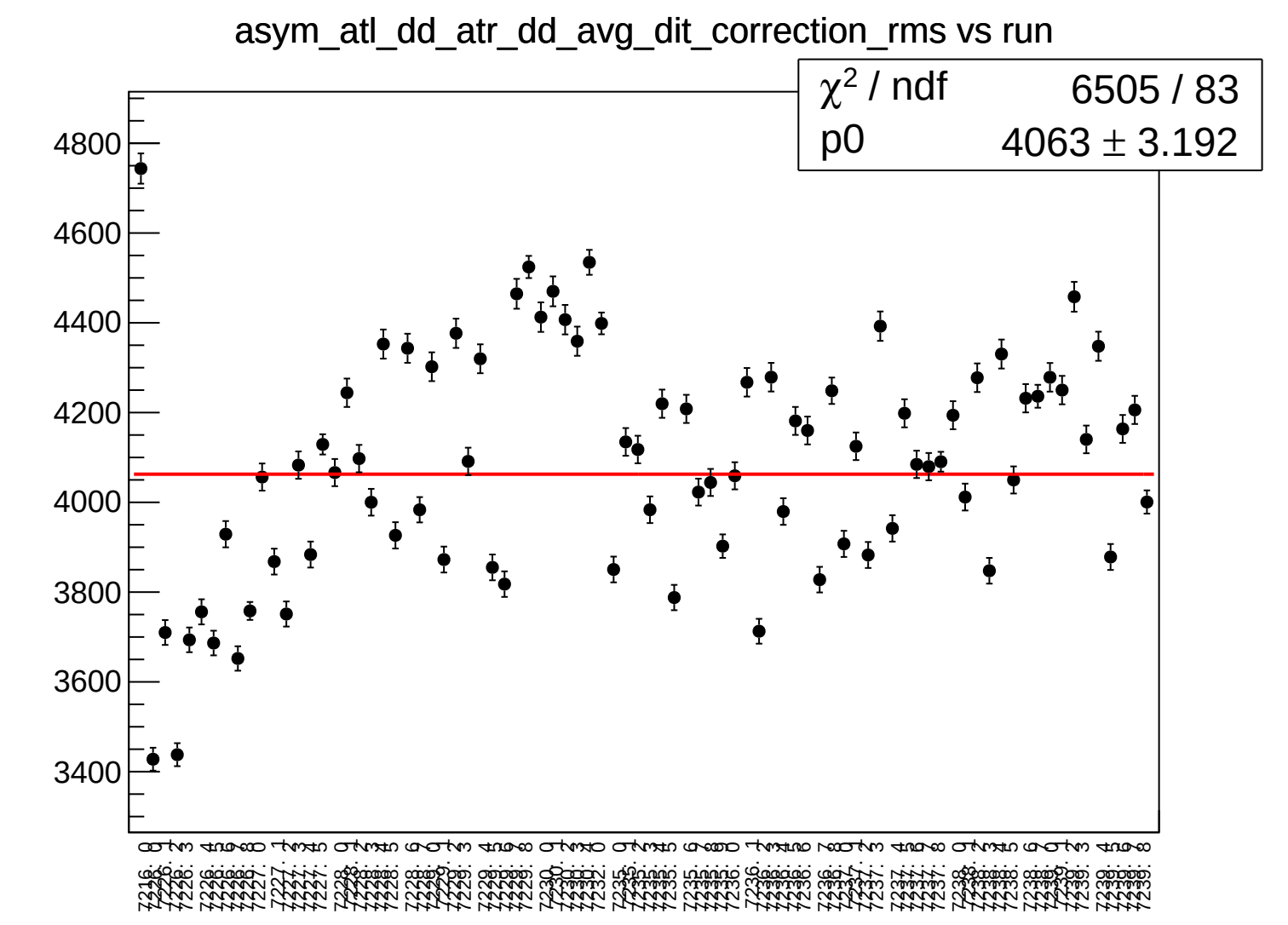

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 91.02 / 83
p0 189 ± 1369
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −419.6
Std Dev 0
2
1
0
−1
−2

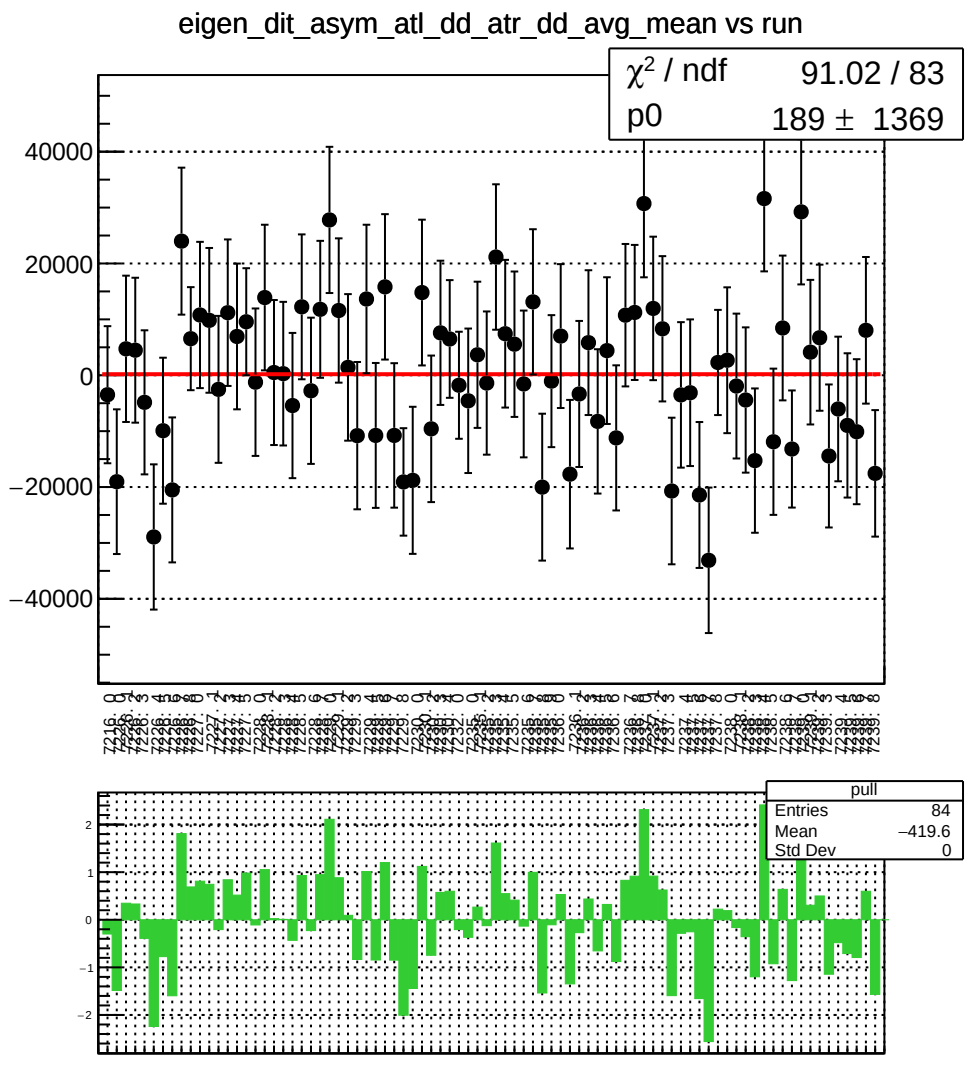

pull1D
Entries 84
Mean 0.004638
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

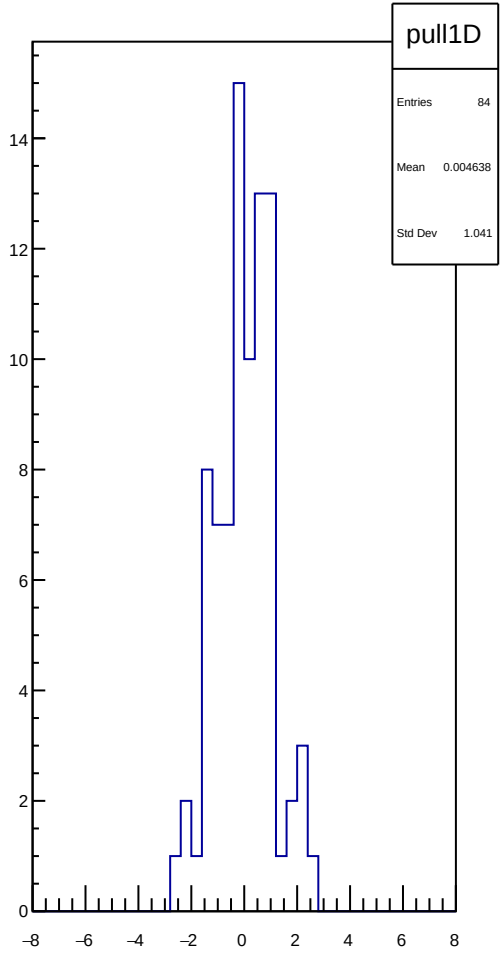

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 110.2 / 83
p0 1234 ± 0.9679
1270
1260
1250
1240
1230
1220
1210
1200

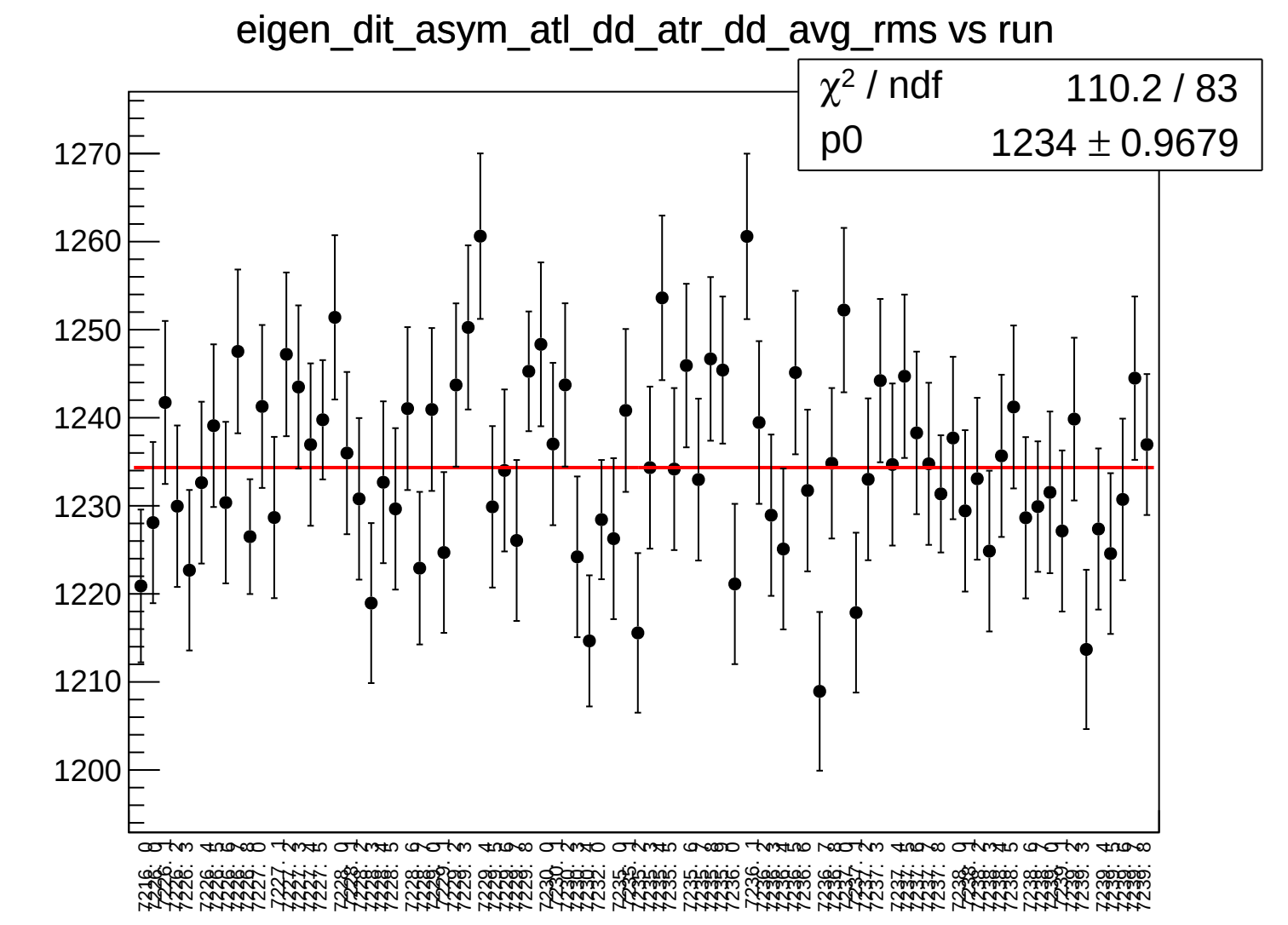

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 99.15 / 83
p0 −4340 ± 4514
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −166.4
Std Dev 0
3
2
1
0
−1
−2

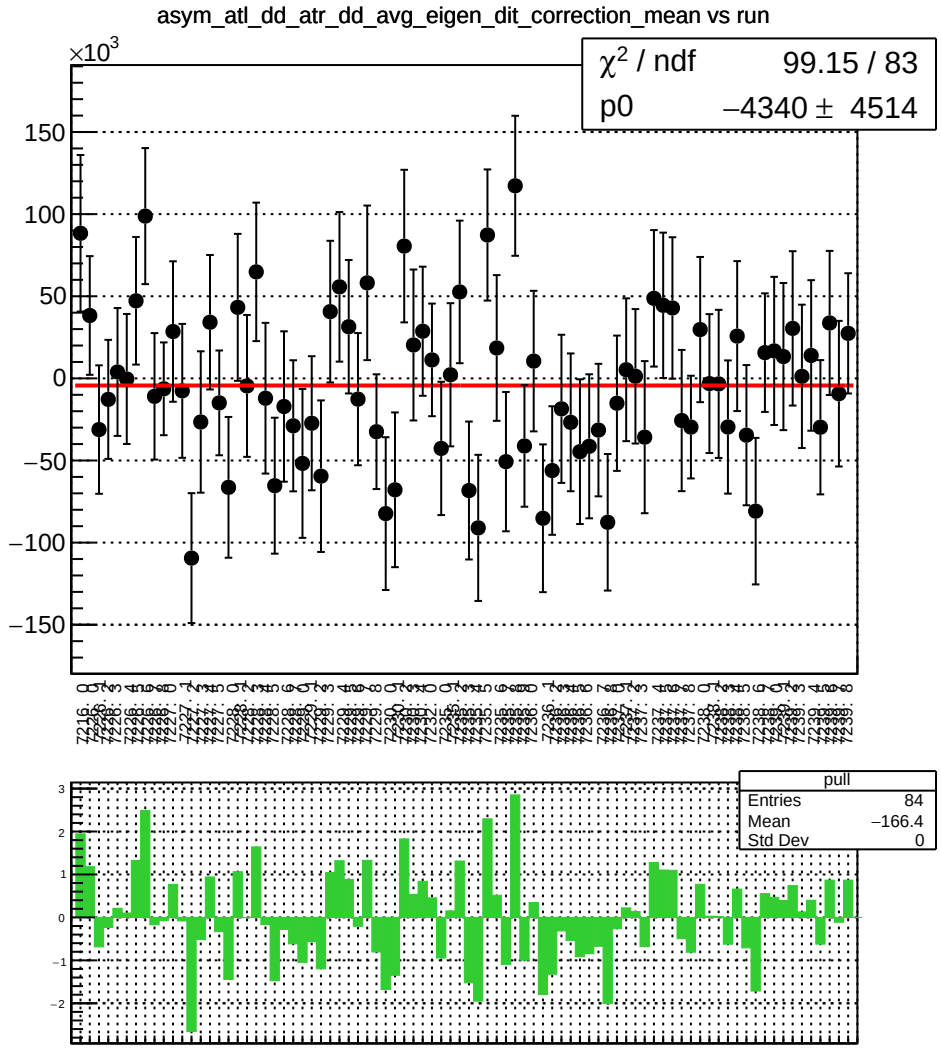

pull1D
Entries 84
Mean 0.006994
Std Dev 1.086
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

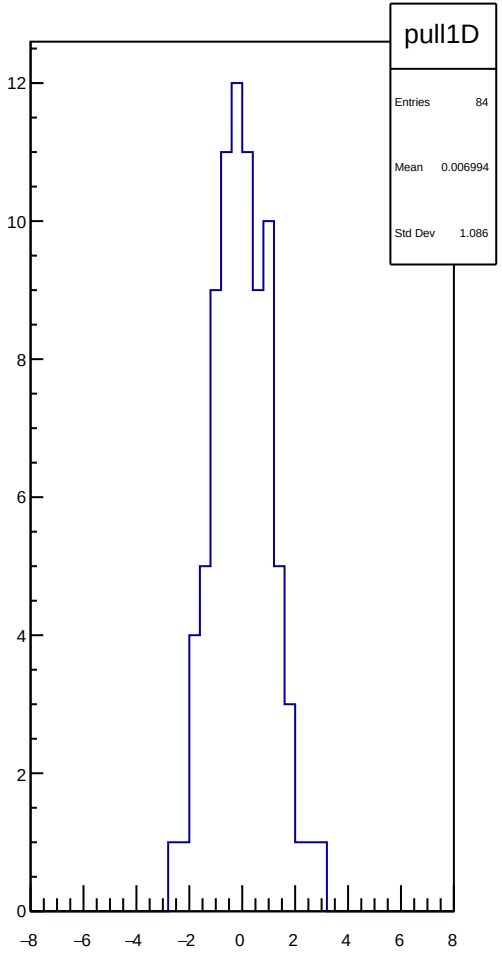

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 6505 / 83
p0 4063 ± 3.192
4800
4600
4400
4200
4000
3800
3600
3400

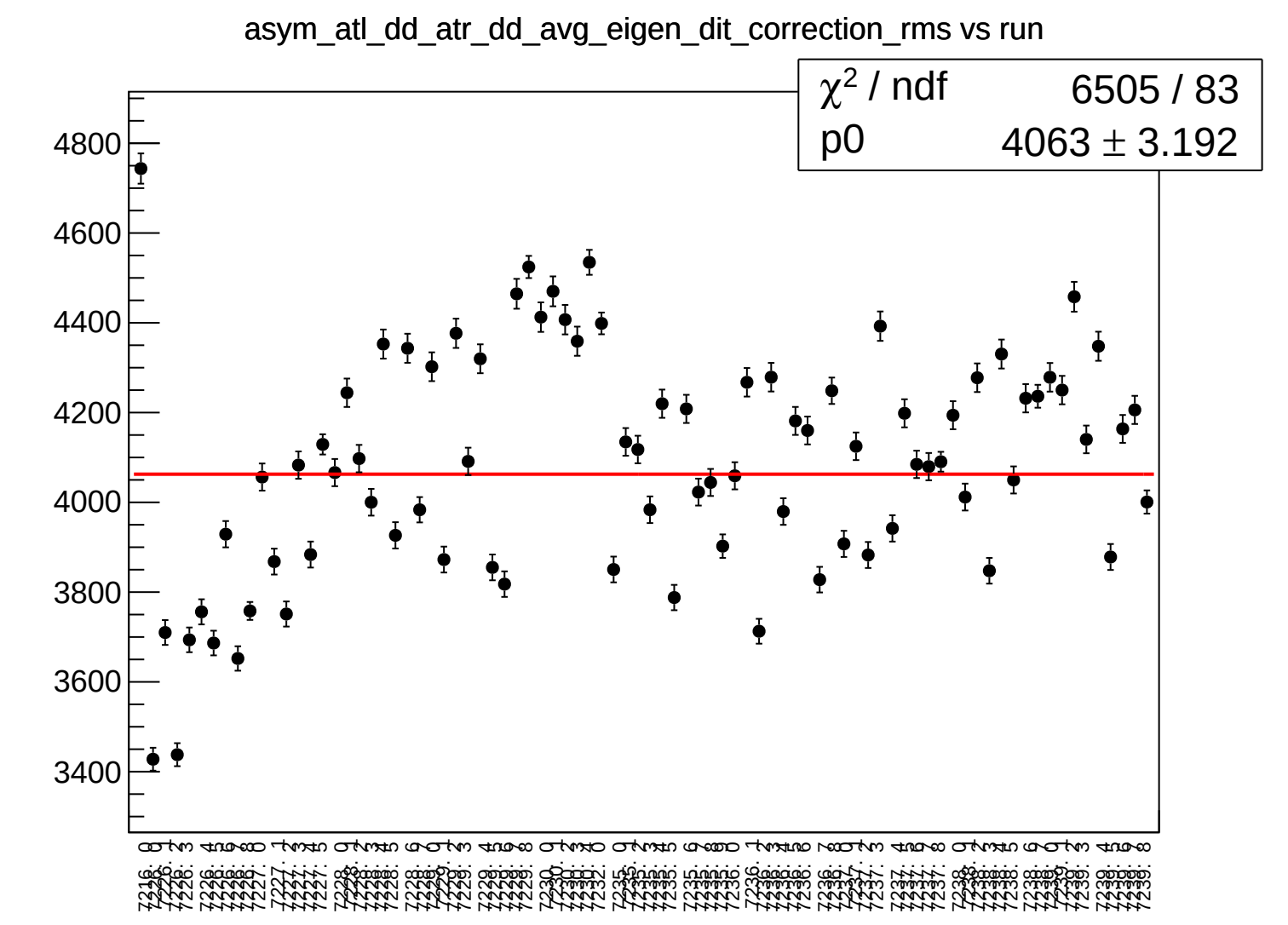

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 91.02 / 83
p0 189 ± 1369
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −419.6
Std Dev 0
2
1
0
−1
−2

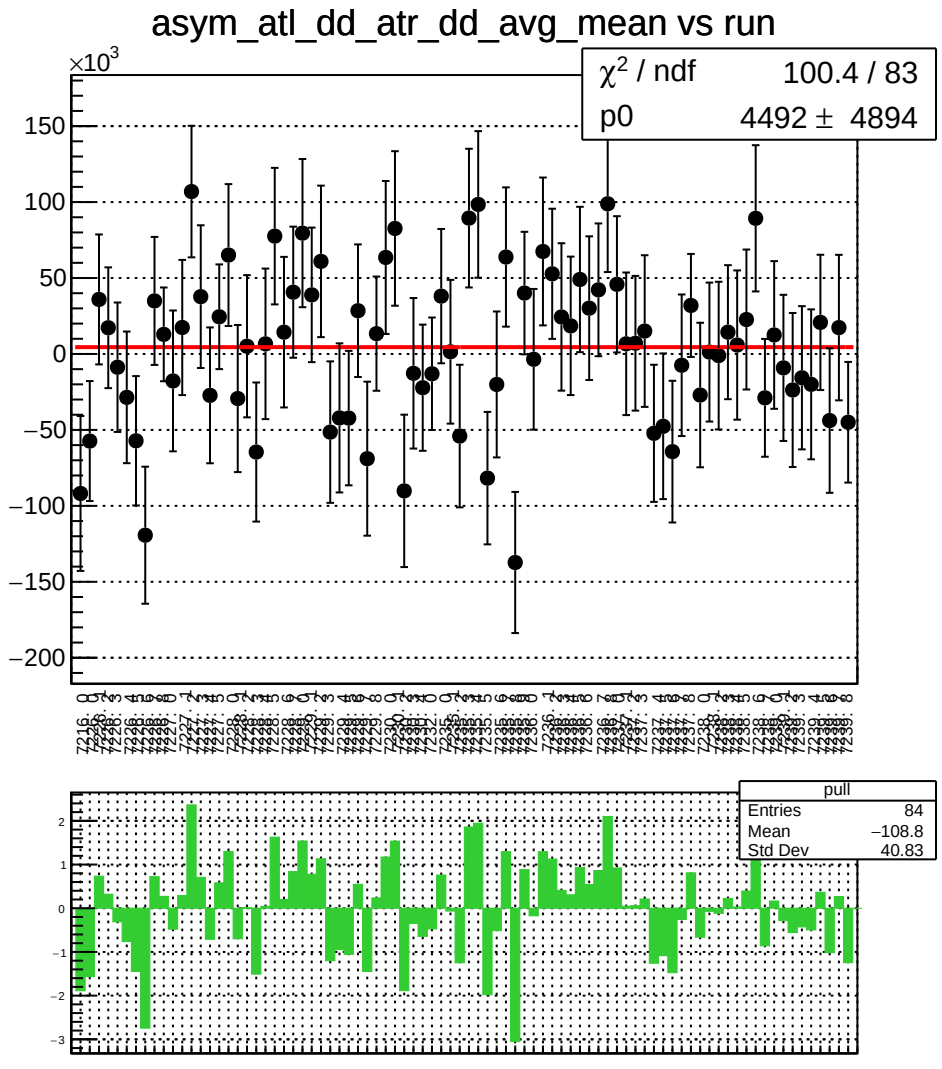

pull1D
Entries 84
Mean 0.004638
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

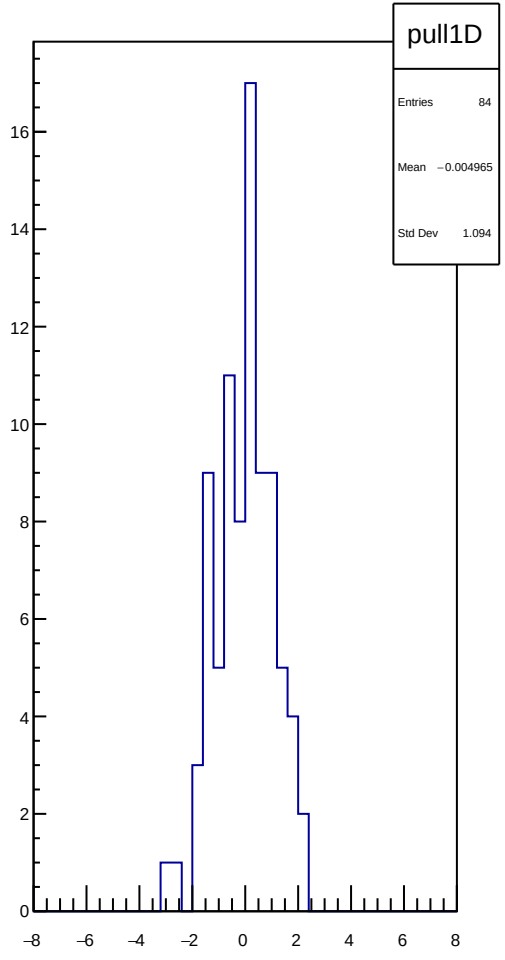

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ^2 / ndf 110.2 / 83
p0 1234 ± 0.9679
1270
1260
1250
1240
1230
1220
1210
1200

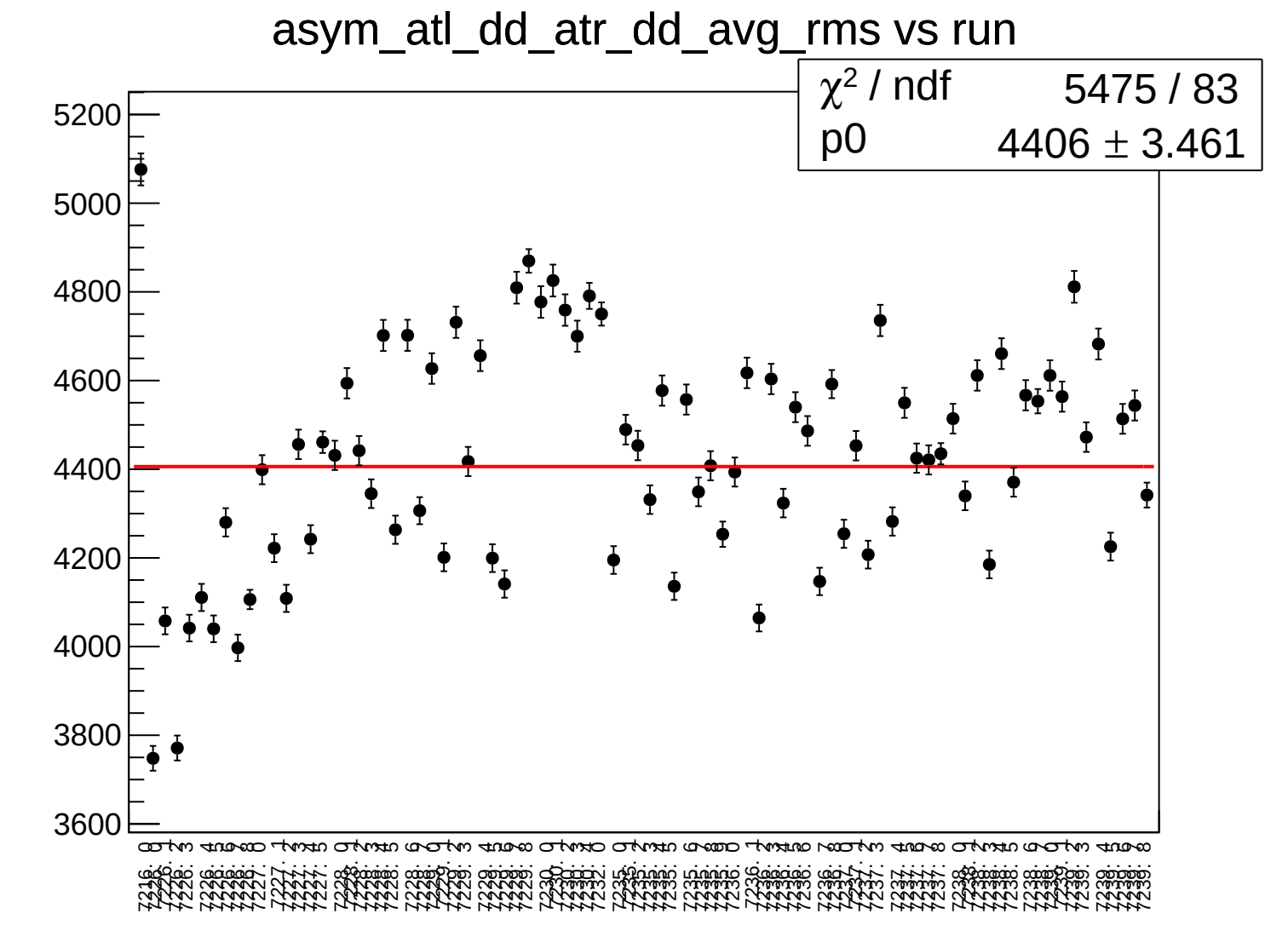

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 99.15 / 83
p0 −4340 ± 4514
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −166.4
Std Dev 0
3
2
1
0
−1
−2

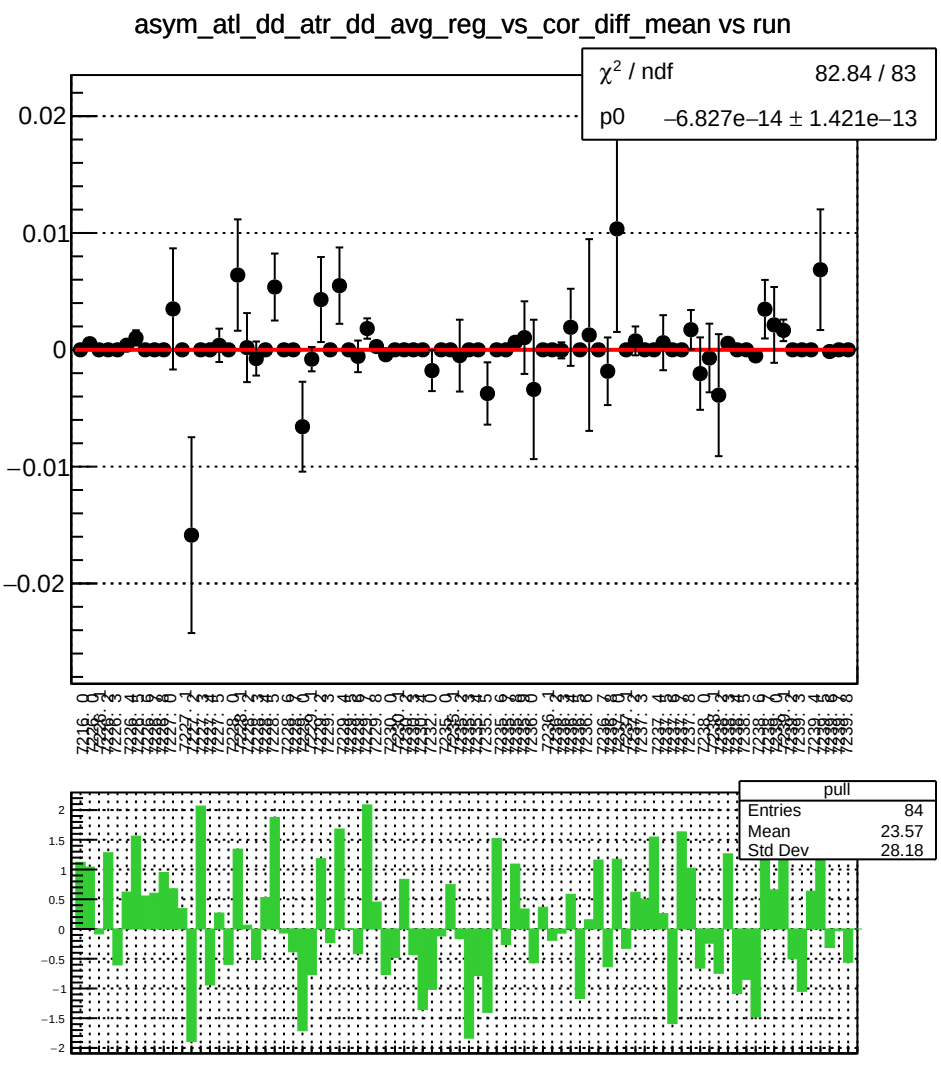

pull1D
Entries 84
Mean 0.006994
Std Dev 1.086
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

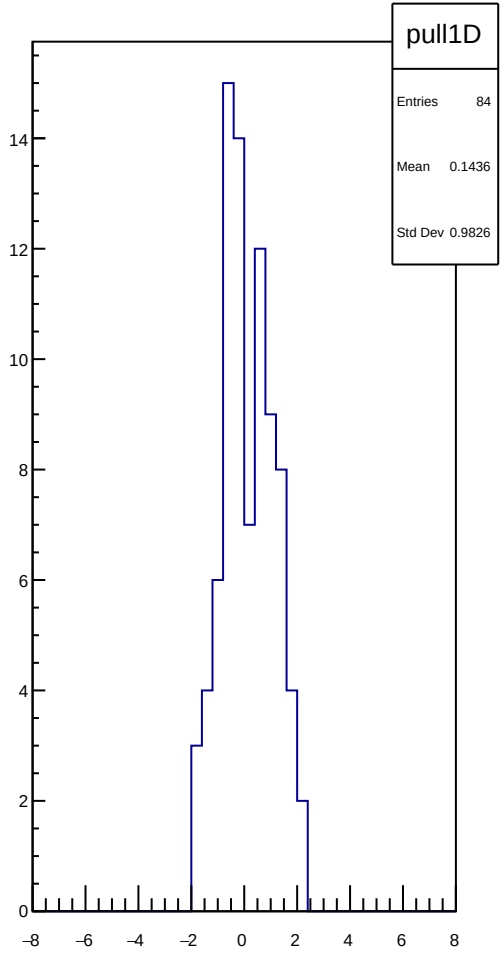

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 6505 / 83
p0 4063 ± 3.192
4800
4600
4400
4200
4000
3800
3600
3400

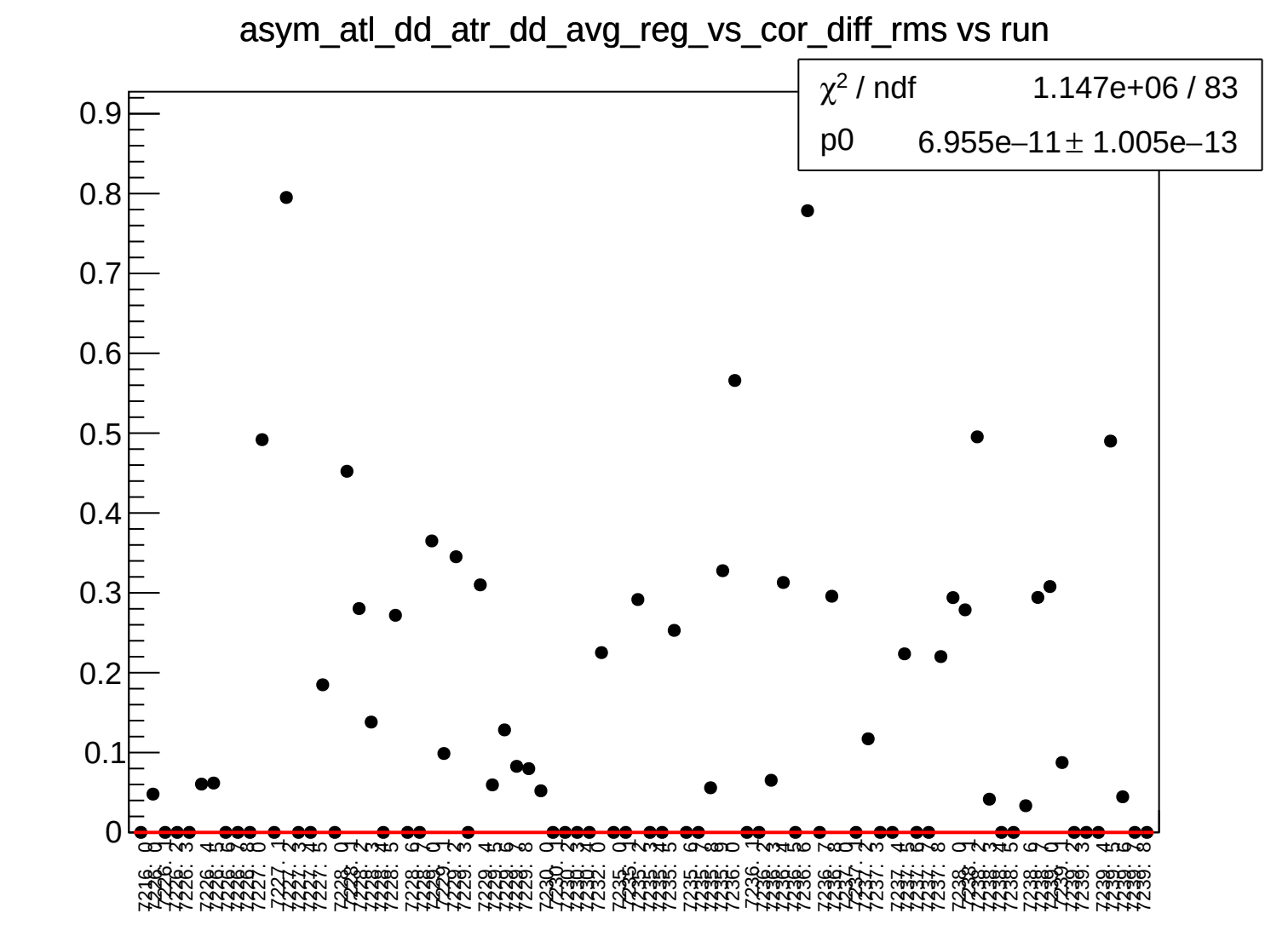

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ^2 / ndf 100.4 / 83
p0 4492 ± 4894
150
100
50
0
−50
−100
−150
−200
pull
Entries 84
Mean −108.8
Std Dev 40.83
2
1
0
−1
−2
−3

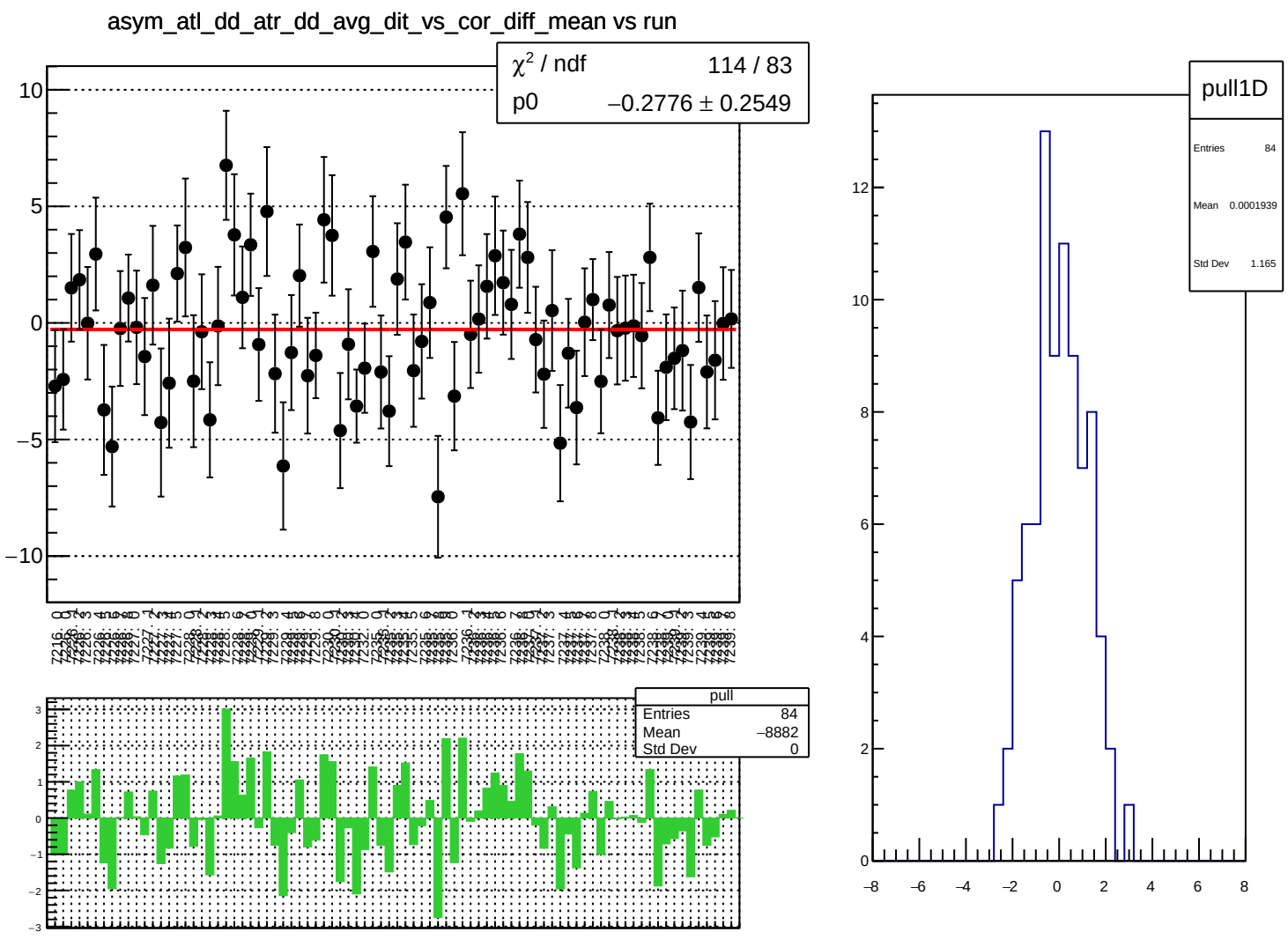

pull1D
Entries 84
Mean −0.004965
Std Dev 1.094
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

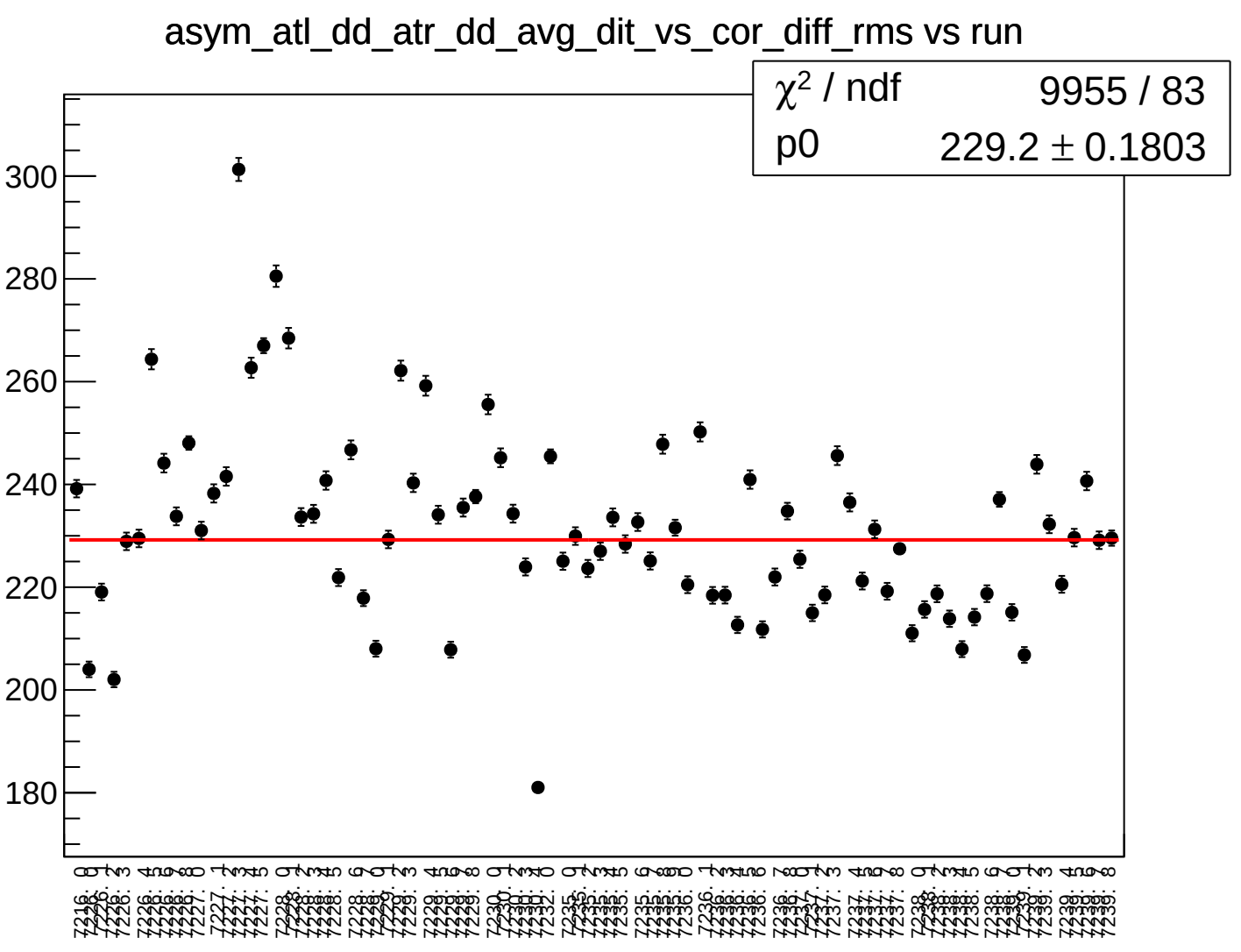

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 5475 / 83
p0 4406 ± 3.461
5200
5000
4800
4600
4400
4200
4000
3800
3600

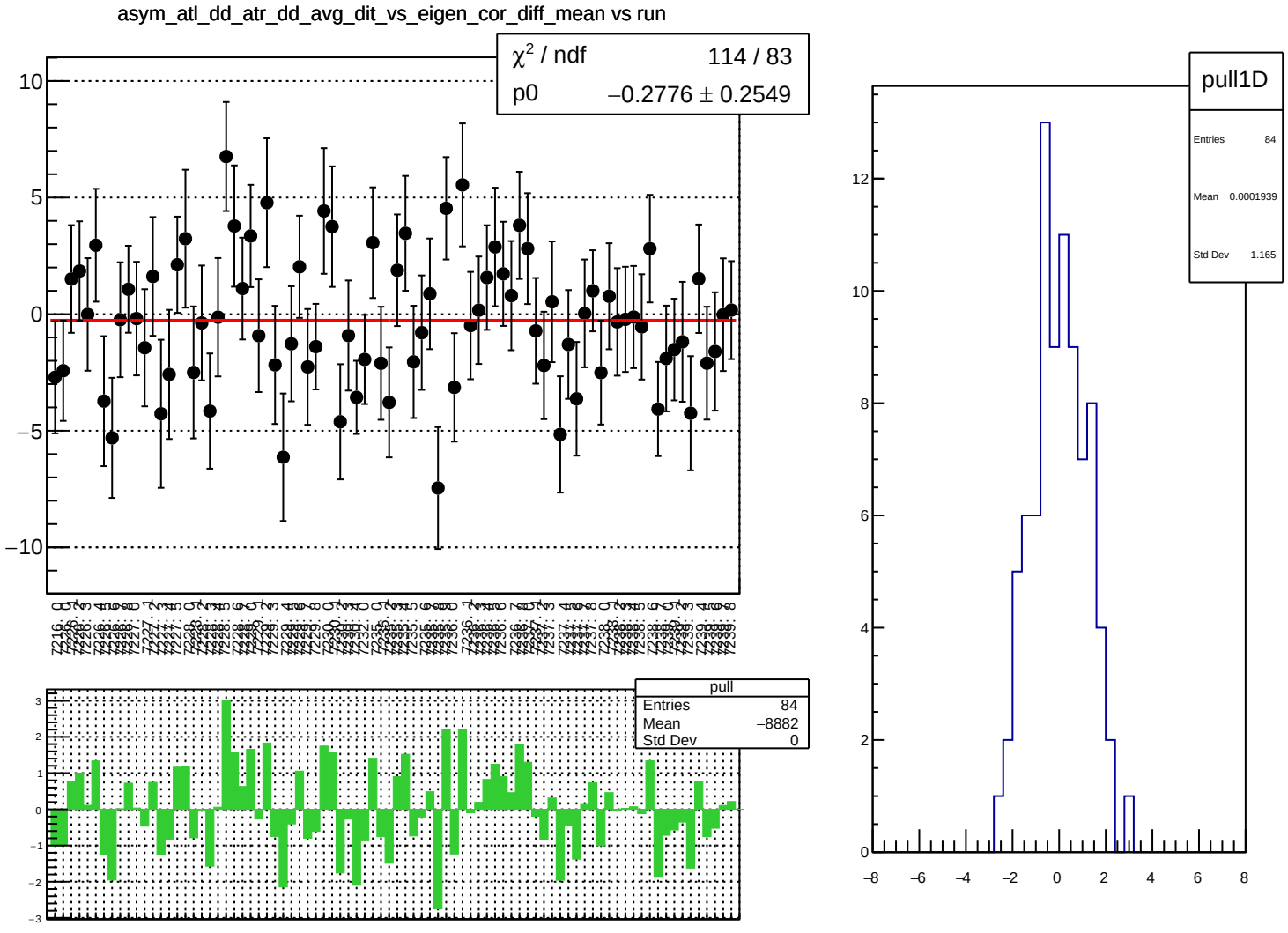

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 82.84 / 83
p0 −6.827e−14 ± 1.421e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 84
Mean 23.57
Std Dev 28.18
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

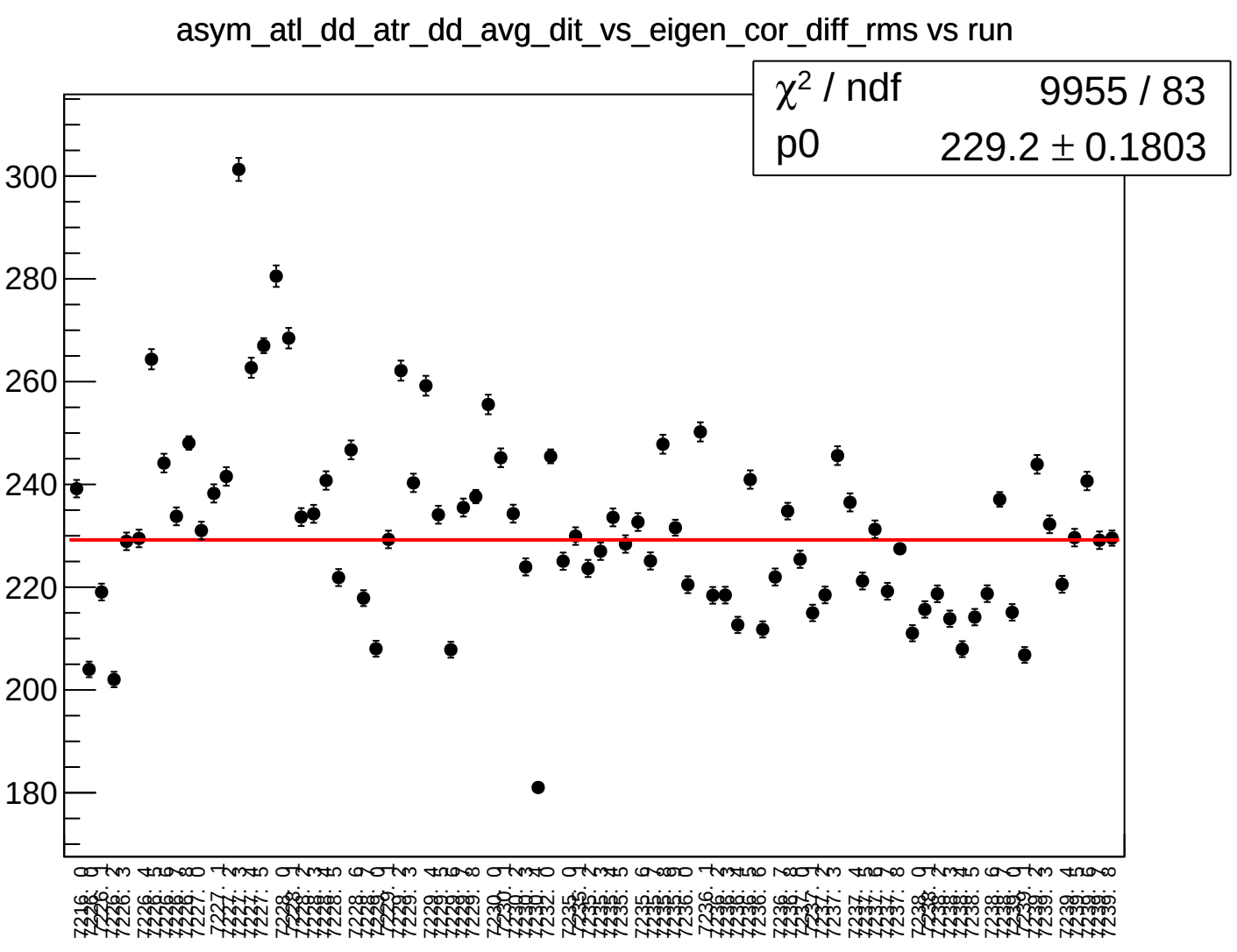

pull1D
Entries 84
Mean 0.1436
Std Dev 0.9826
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

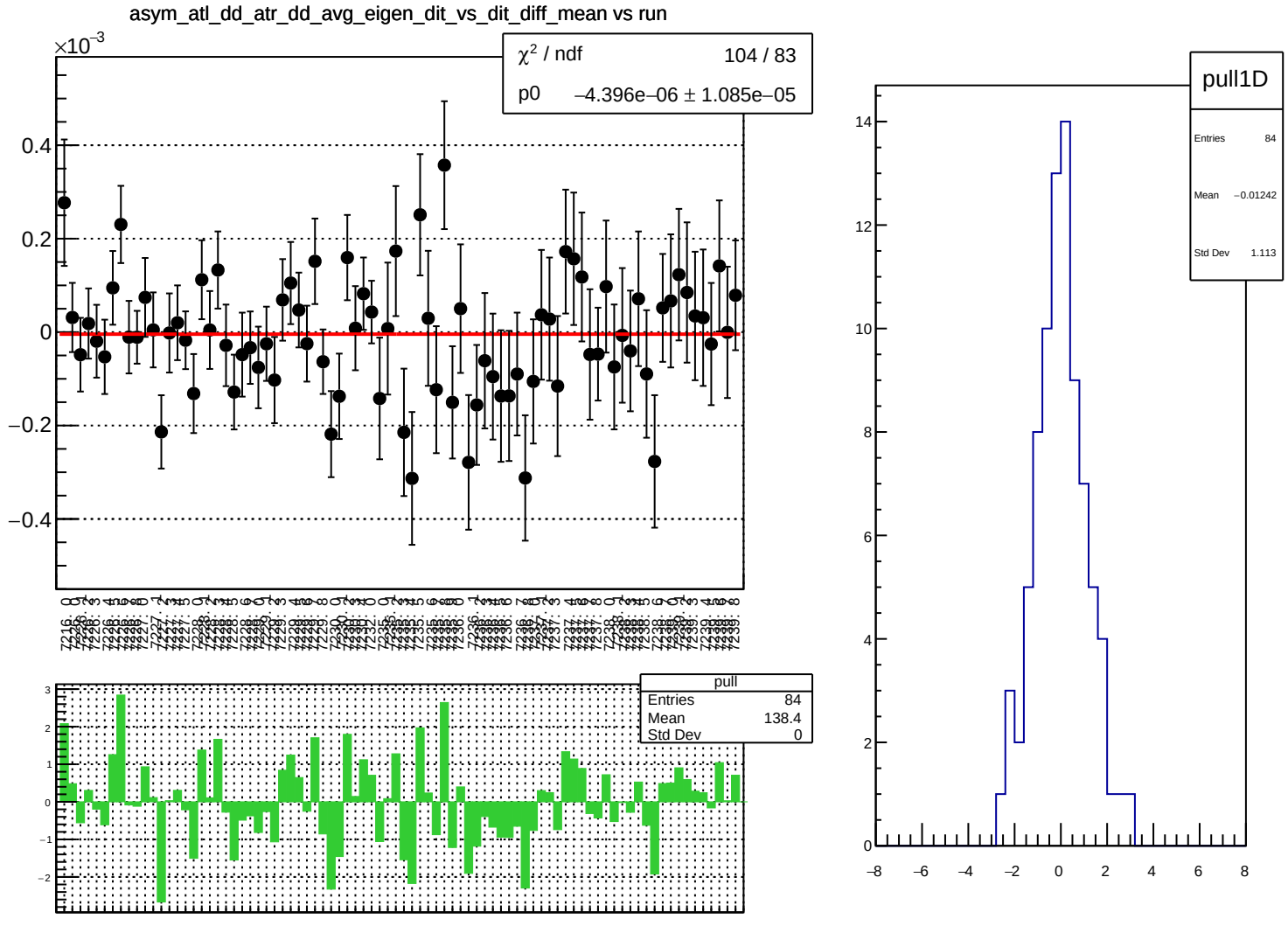

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.147e+06 / 83
p0 6.955e−11 ± 1.005e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

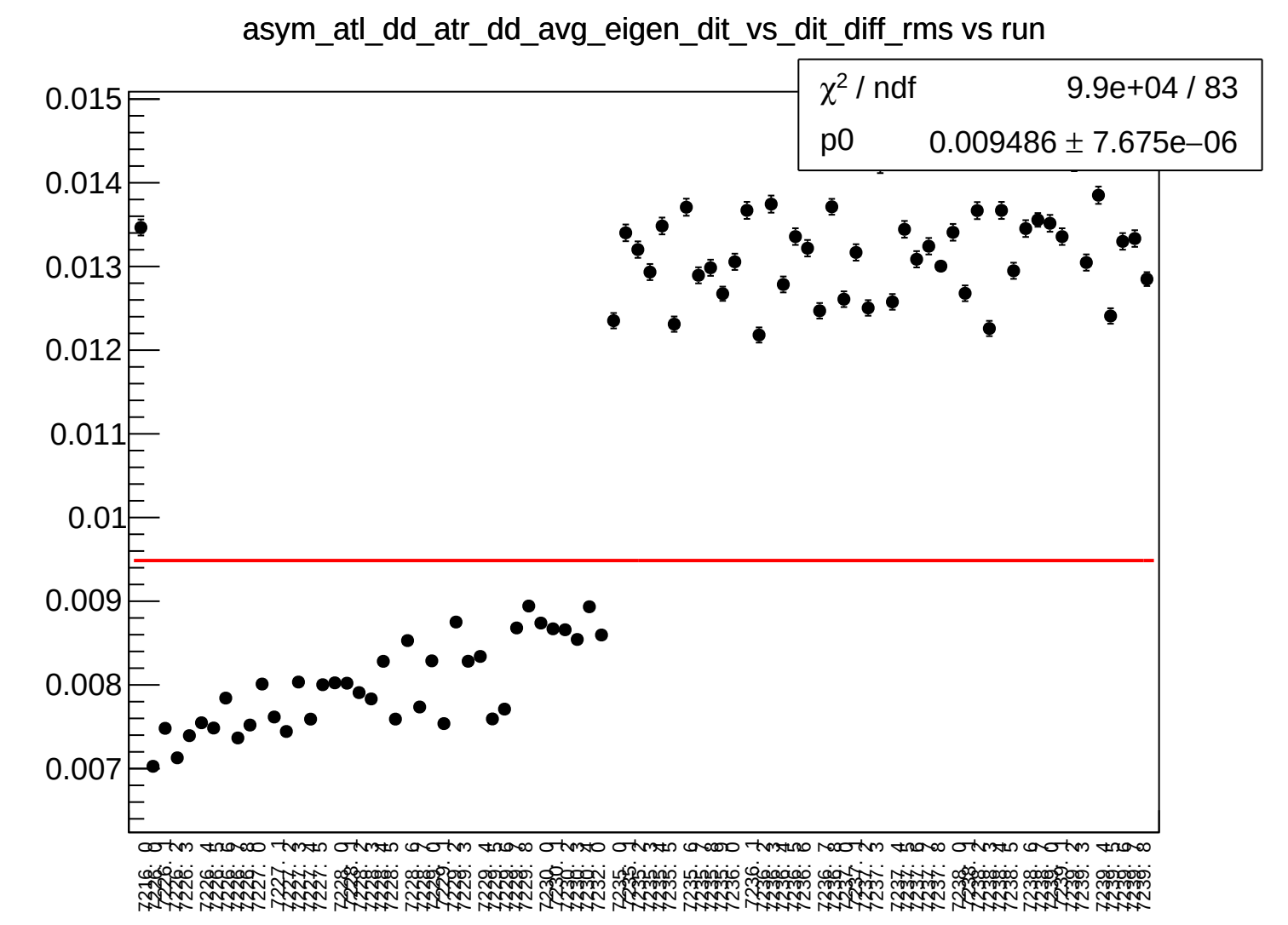

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 114 / 83
p0 −0.2776 ± 0.2549
pull
Entries 84
Mean −8882
Std Dev 0
pull1D
Entries 84
Mean 0.0001939
Std Dev 1.165

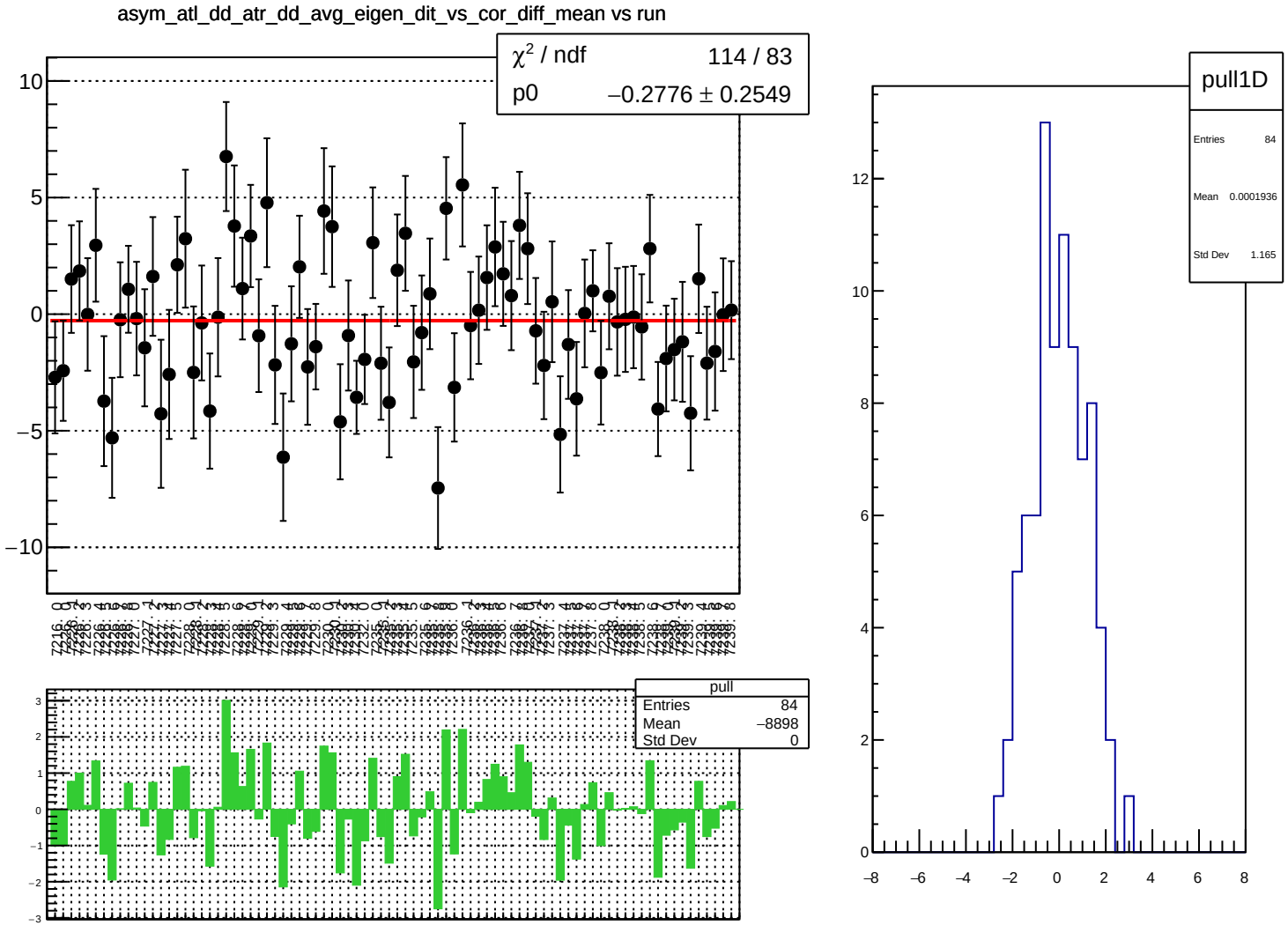

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9955 / 83
p0 229.2 ± 0.1803
300
280
260
240
220
200
180

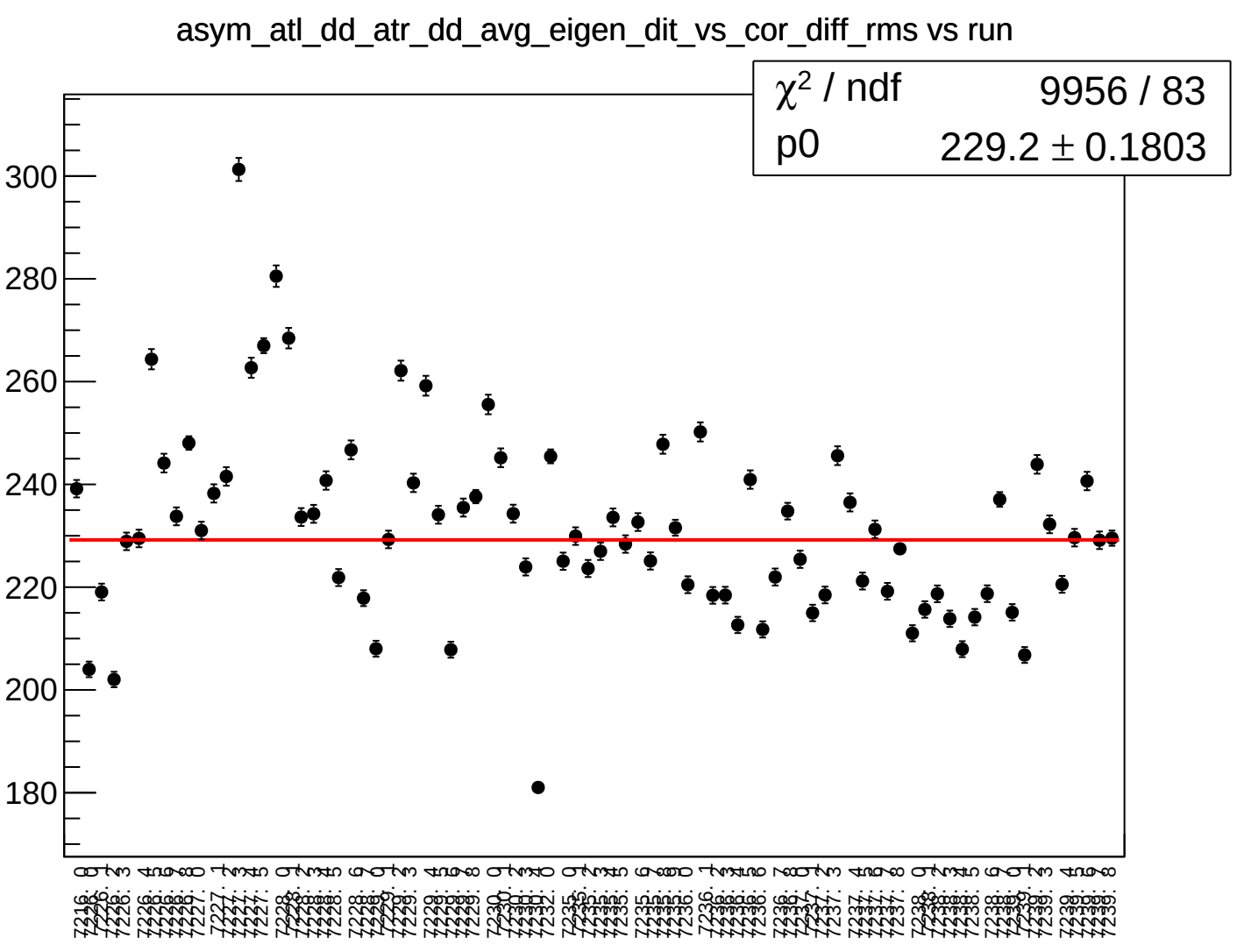

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 114 / 83
p0 −0.2776 ± 0.2549
pull
Entries 84
Mean −8882
Std Dev 0
pull1D
Entries 84
Mean 0.0001939
Std Dev 1.165

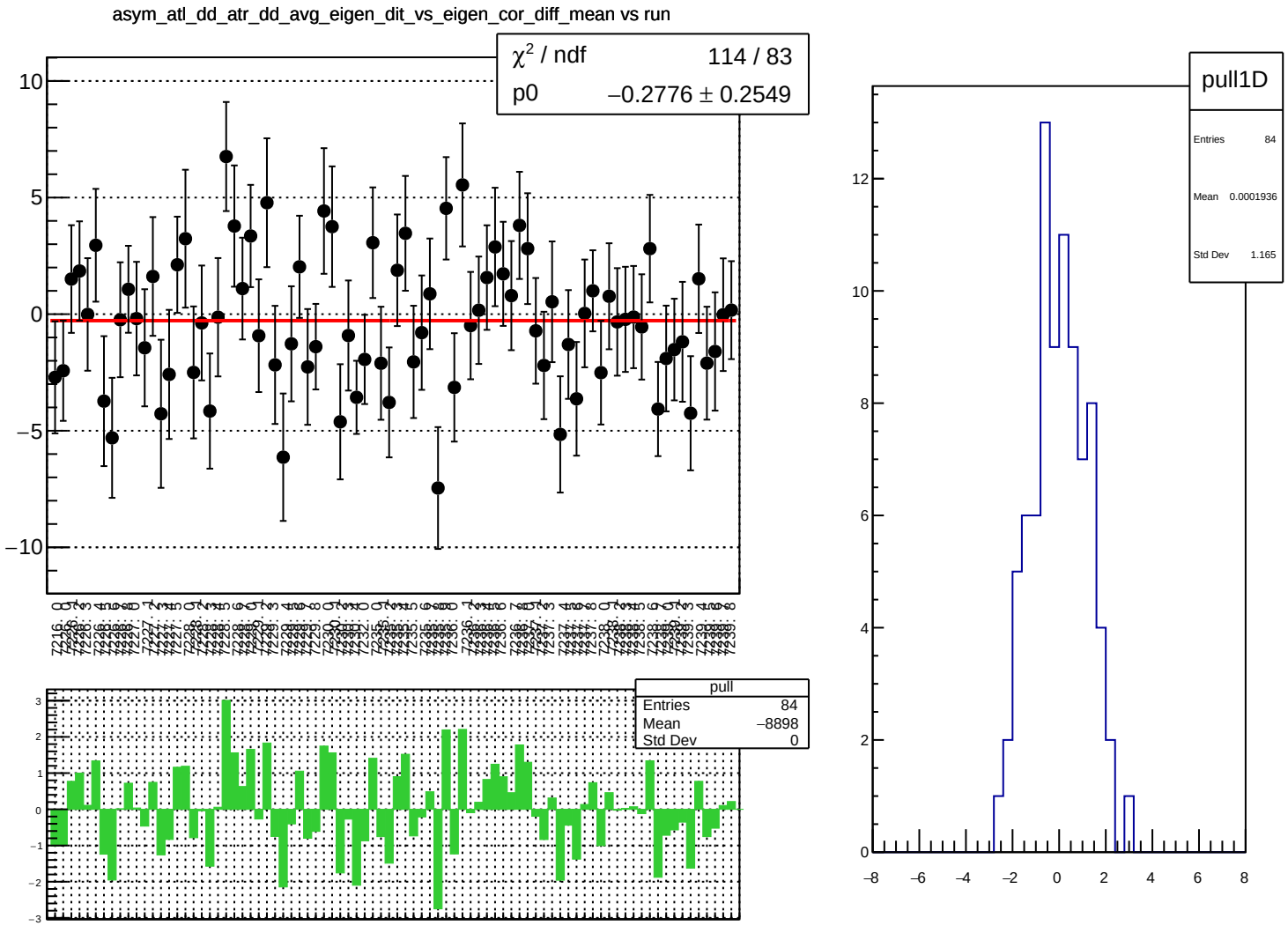

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9955 / 83
p0 229.2 ± 0.1803
300
280
260
240
220
200
180

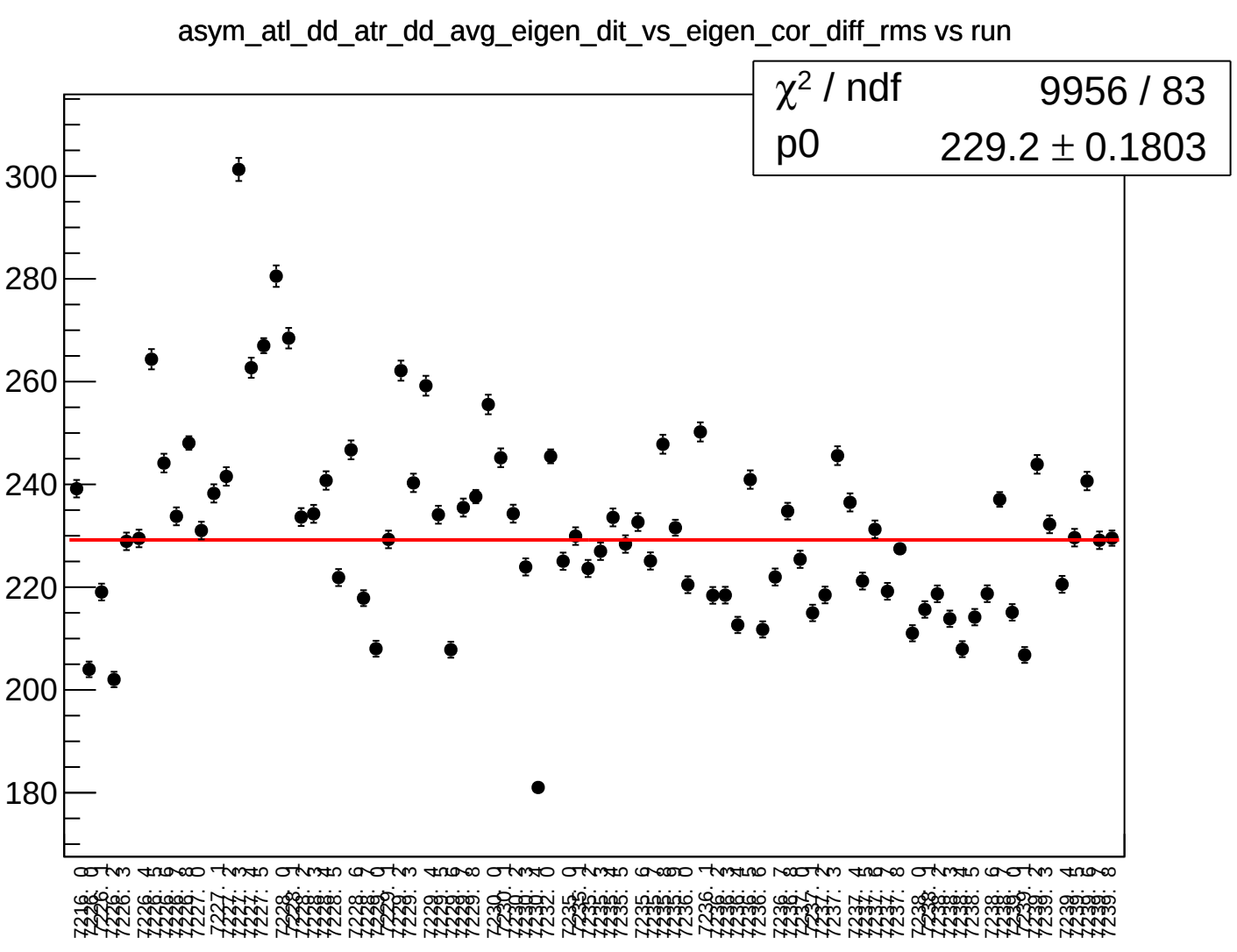

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 104 / 83
p0 −4.396e−06 ± 1.085e−05
pull
Entries 84
Mean 138.4
Std Dev 0
pull1D
Entries 84
Mean −0.01242
Std Dev 1.113

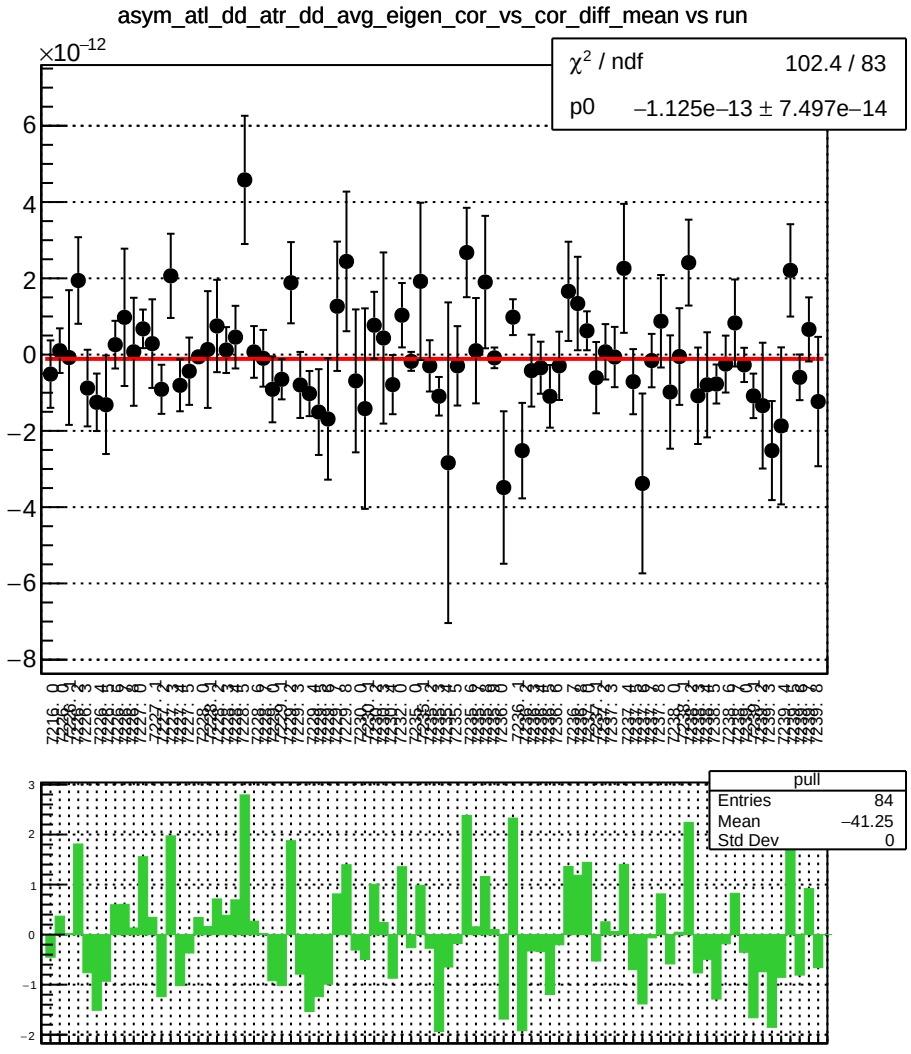

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.9e+04 / 83
p0 0.009486 ± 7.675e−06
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007

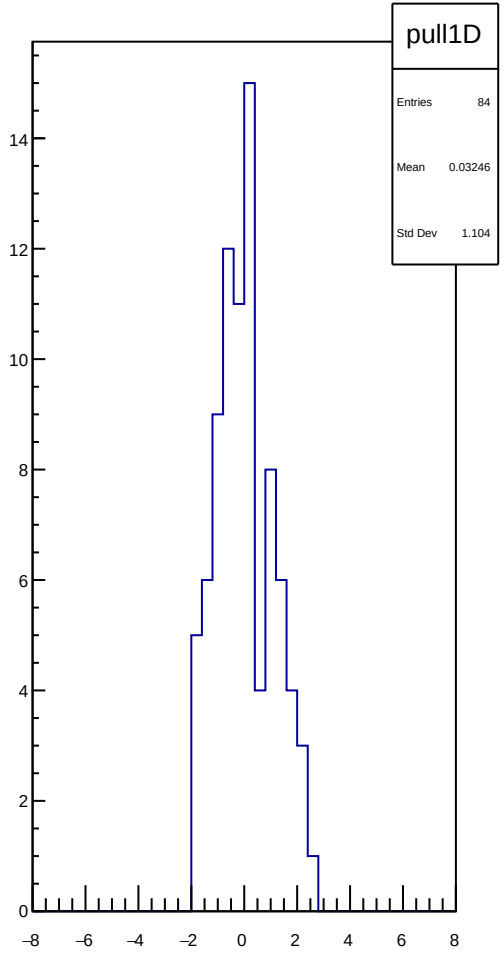

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 114 / 83
p0 −0.2776 ± 0.2549
pull
Entries 84
Mean −8898
Std Dev 0
pull1D
Entries 84
Mean 0.0001936
Std Dev 1.165

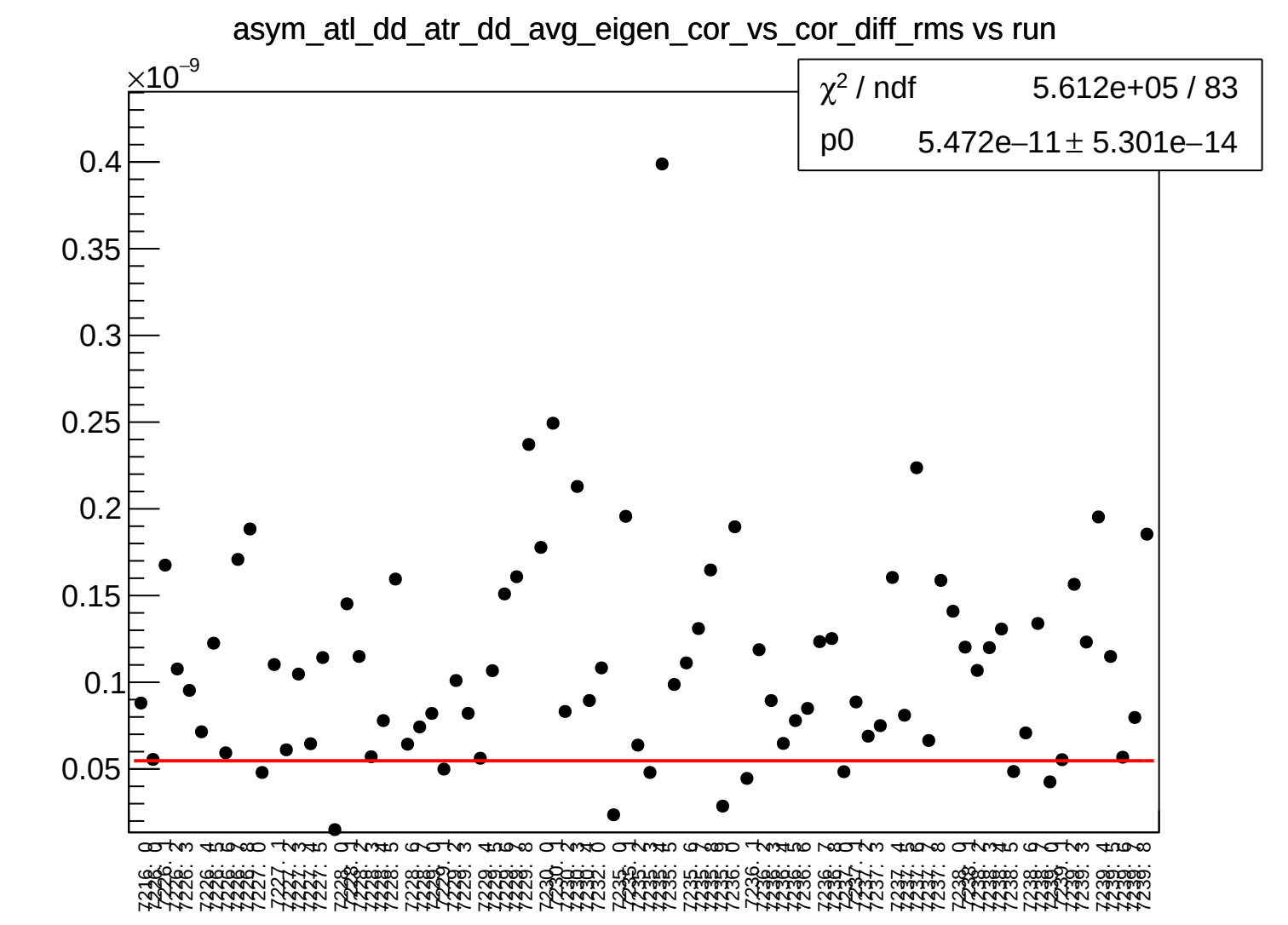

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9956 / 83
p0 229.2 ± 0.1803
300
280
260
240
220
200
180

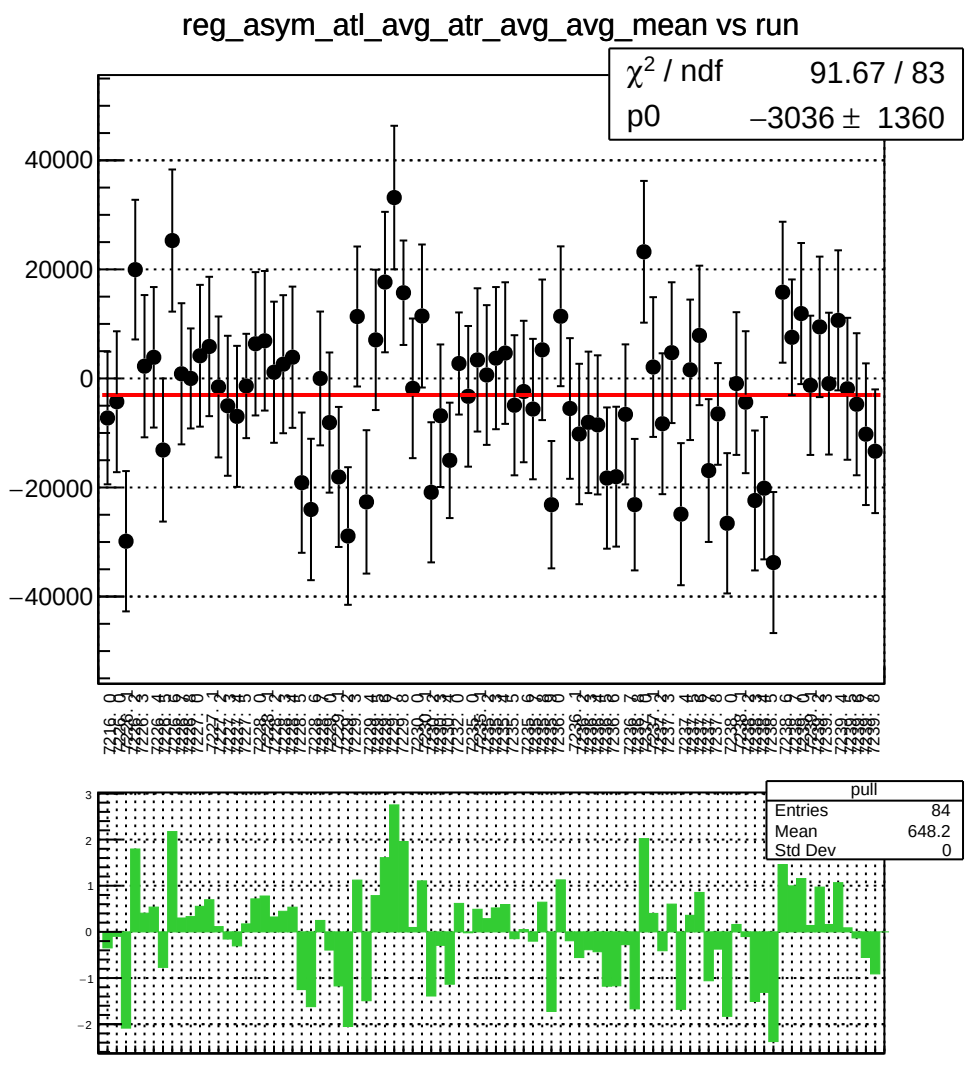

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 114 / 83
p0 −0.2776 ± 0.2549
pull
Entries 84
Mean −8898
Std Dev 0
pull1D
Entries 84
Mean 0.0001936
Std Dev 1.165

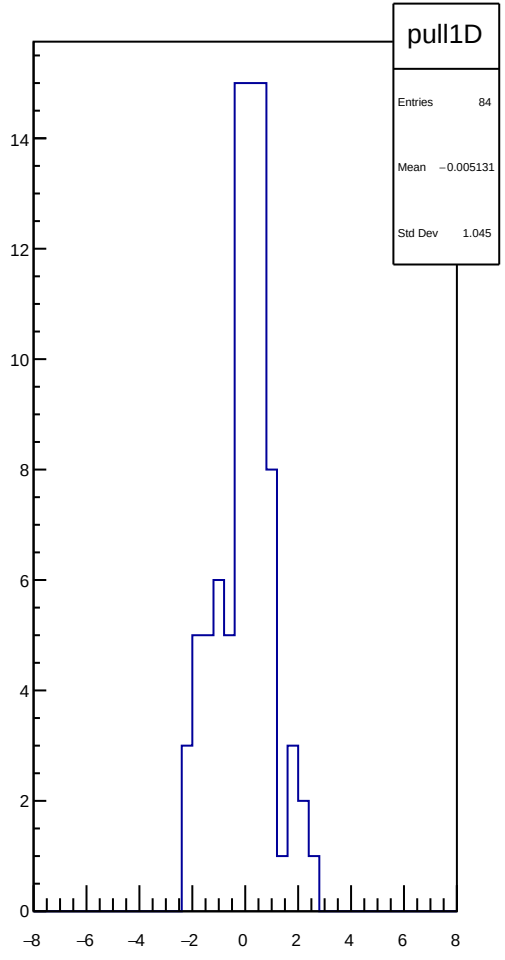

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9956 / 83
p0 229.2 ± 0.1803
300
280
260
240
220
200
180

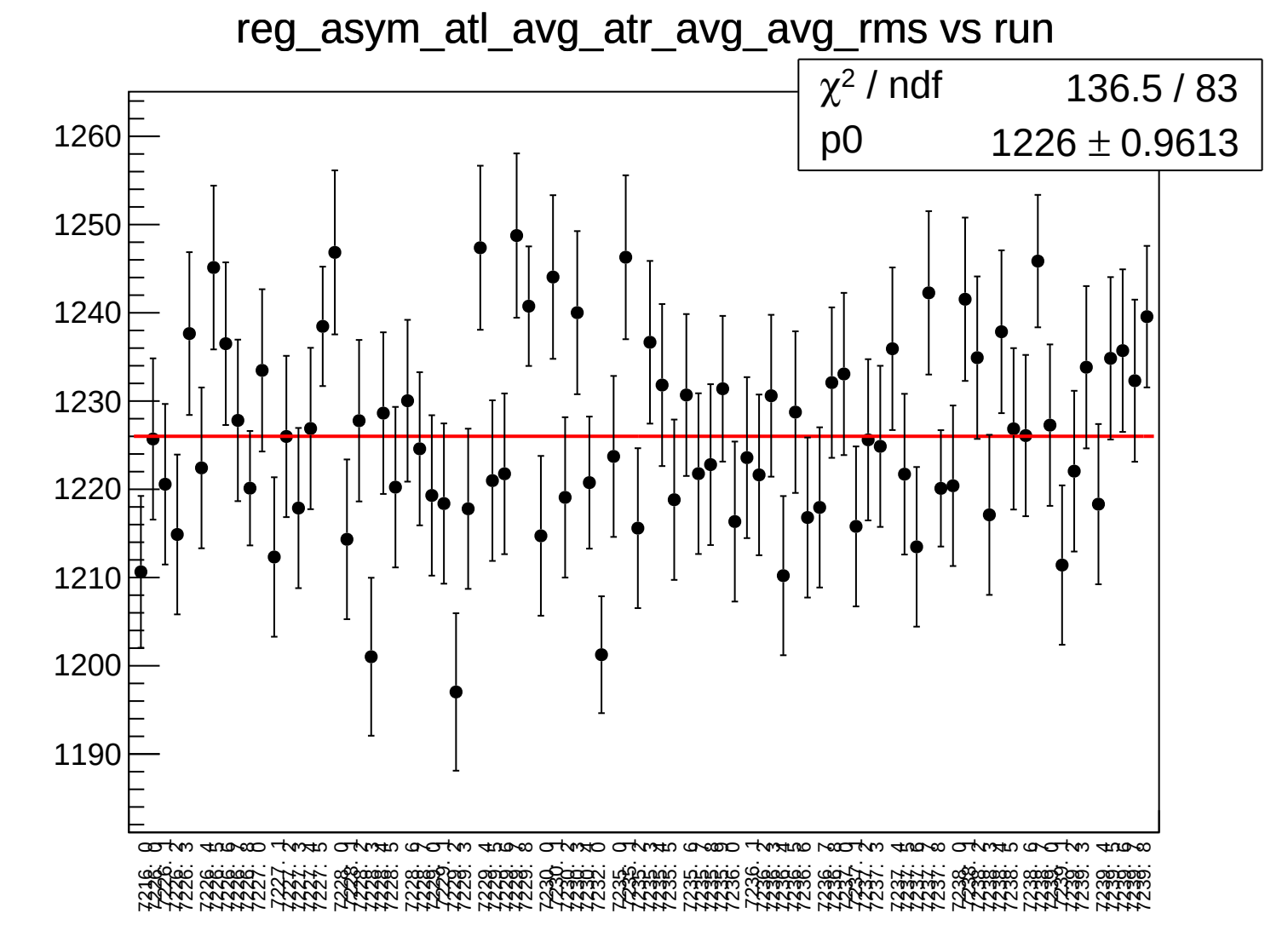

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 102.4 / 83
p0 −1.125e−13 ± 7.497e−14
pull
Entries 84
Mean −41.25
Std Dev 0

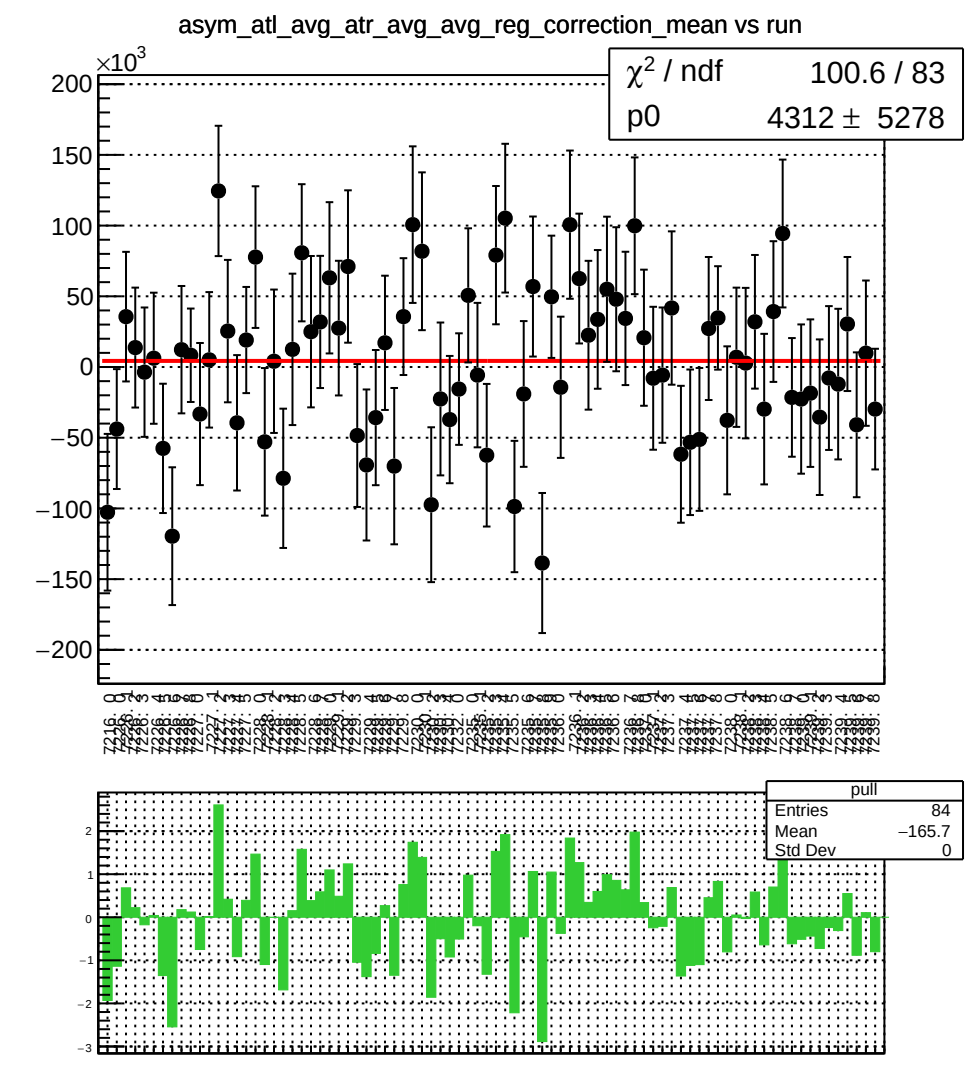

pull1D
Entries 84
Mean 0.03246
Std Dev 1.104

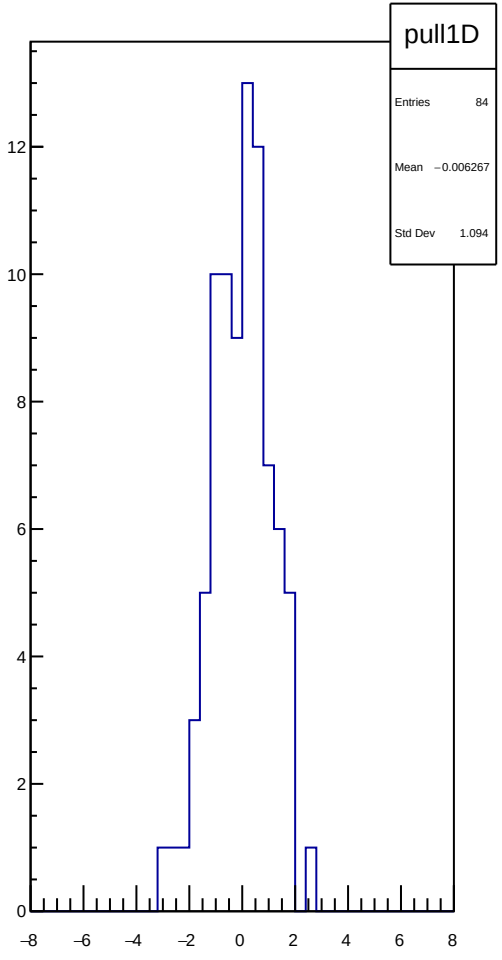

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.612e+05 / 83
p0 5.472e−11 ± 5.301e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

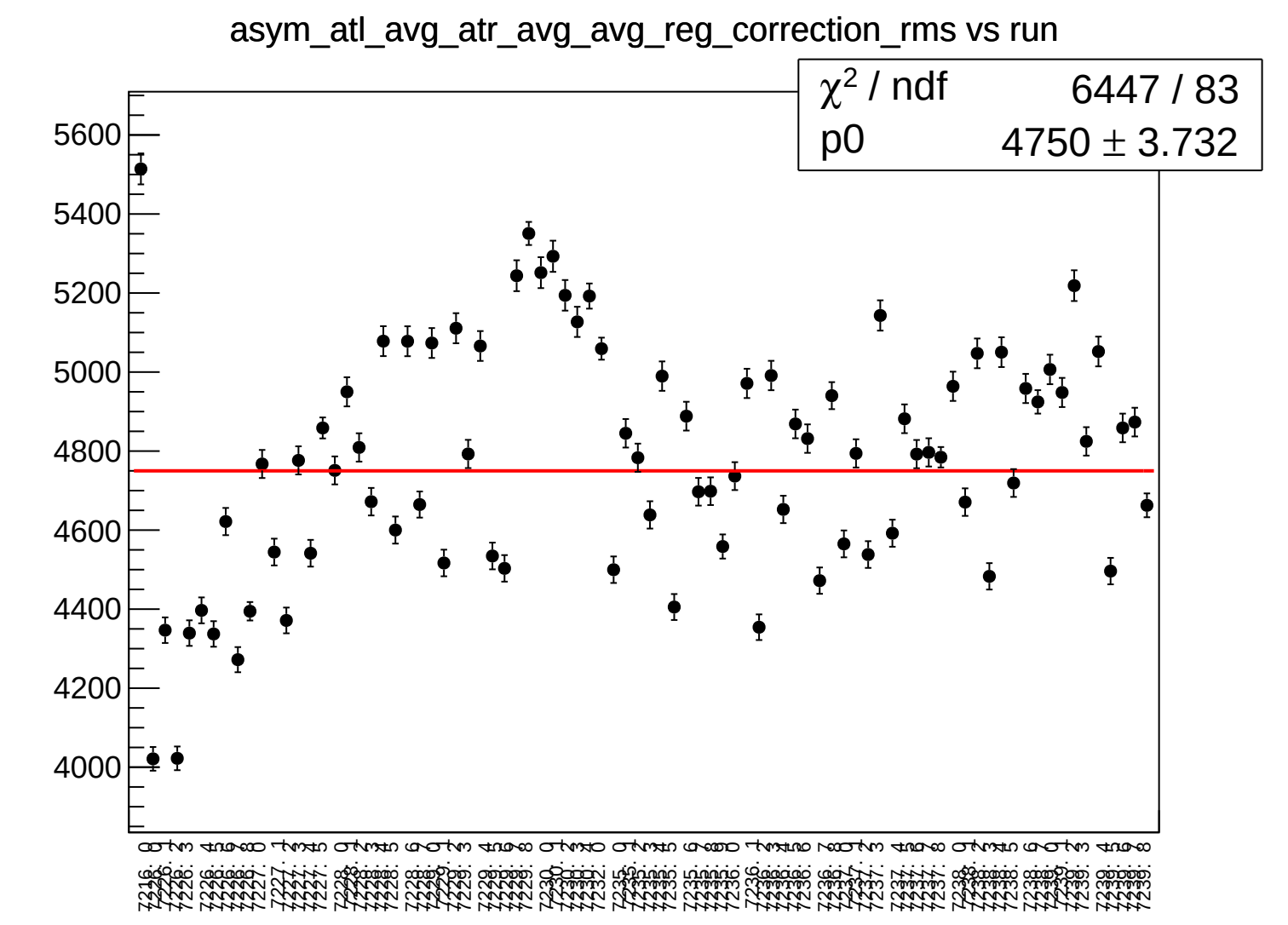

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 91.67 / 83
p0 −3036 ± 1360
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 648.2
Std Dev 0
3
2
1
0
−1
−2

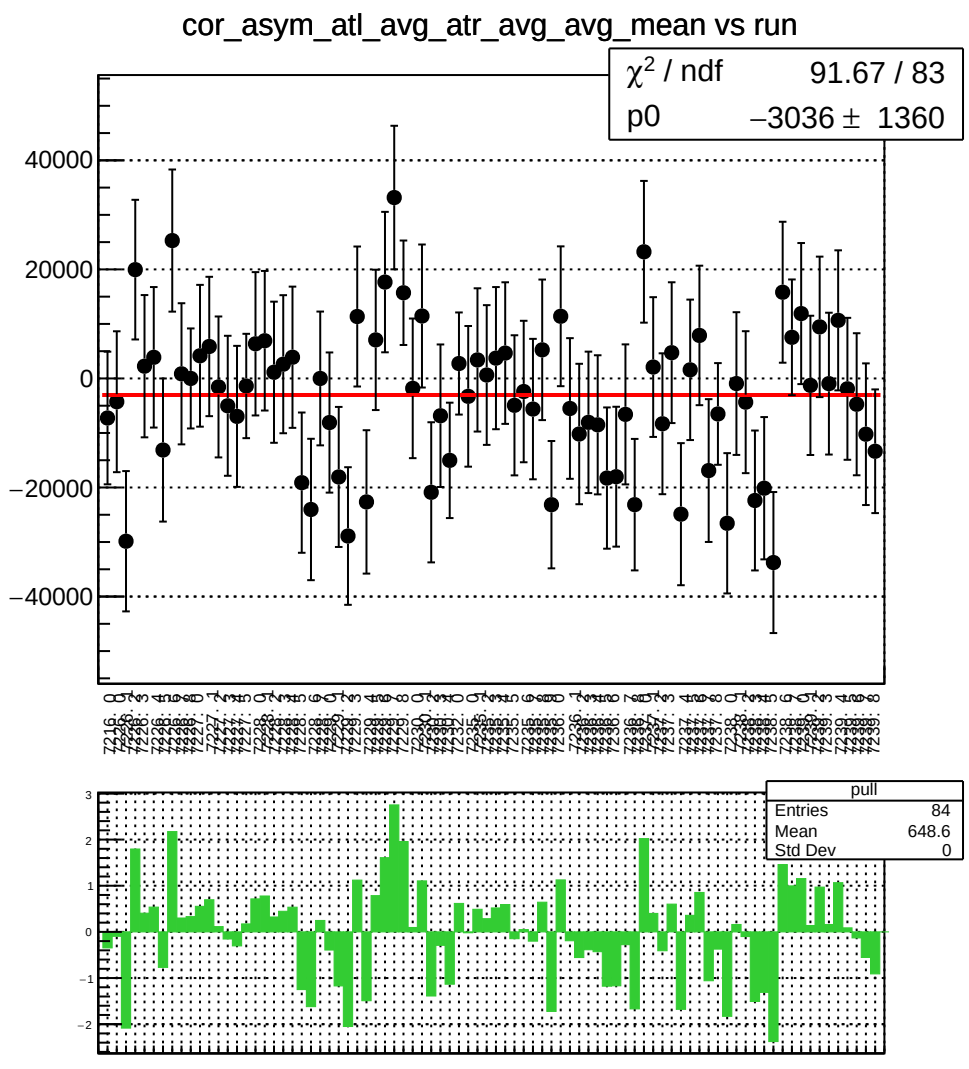

pull1D
Entries 84
Mean −0.005131
Std Dev 1.045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

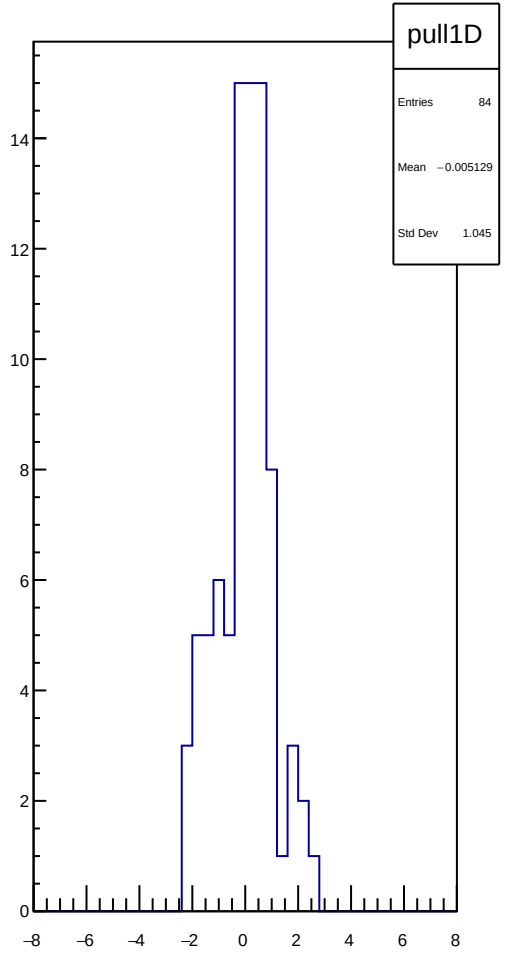

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 136.5 / 83
p0 1226 ± 0.9613
1260
1250
1240
1230
1220
1210
1200
1190

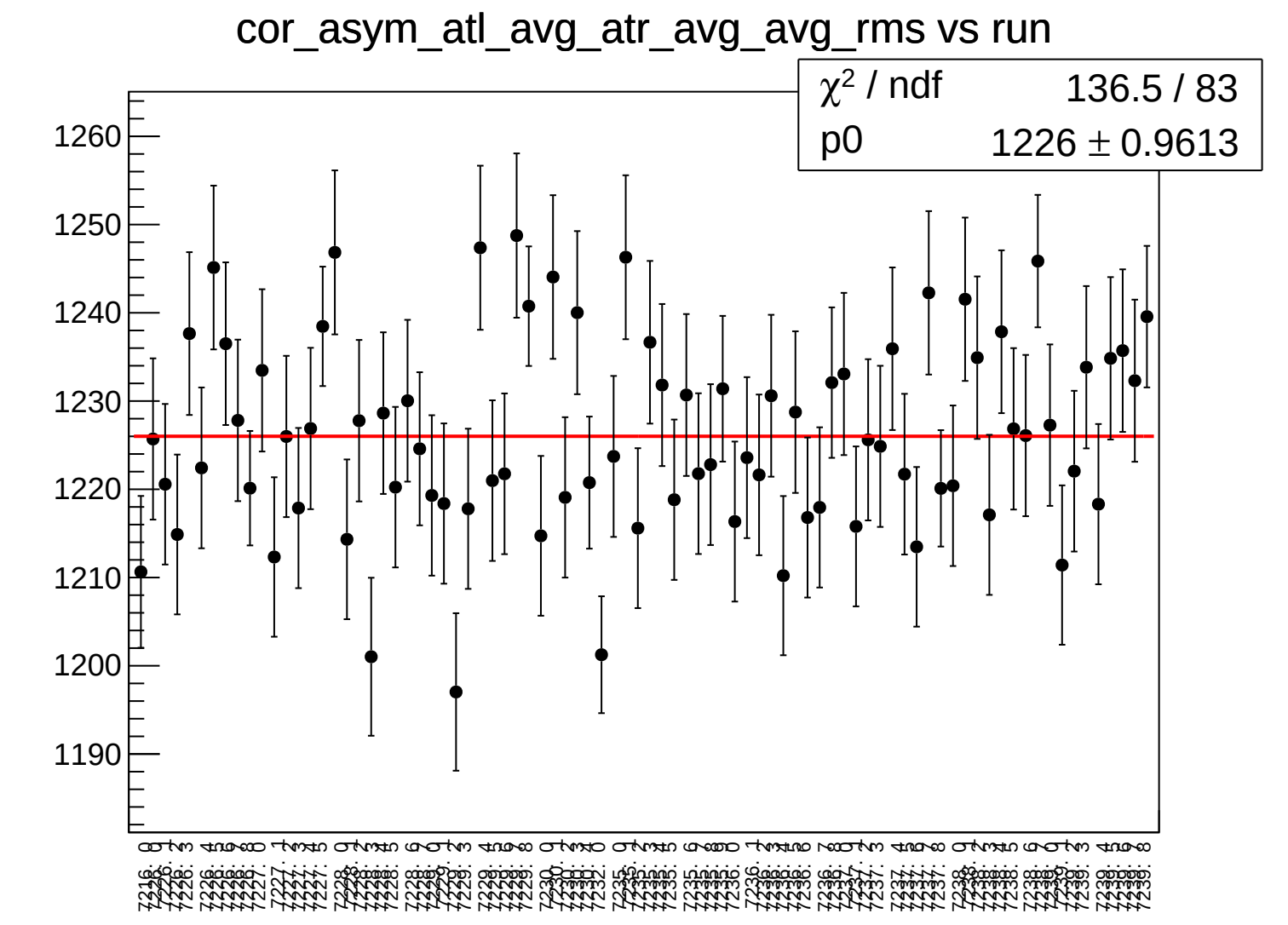

asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 100.6 / 83
p0 4312 ± 5278
pull
Entries 84
Mean −165.7
Std Dev 0

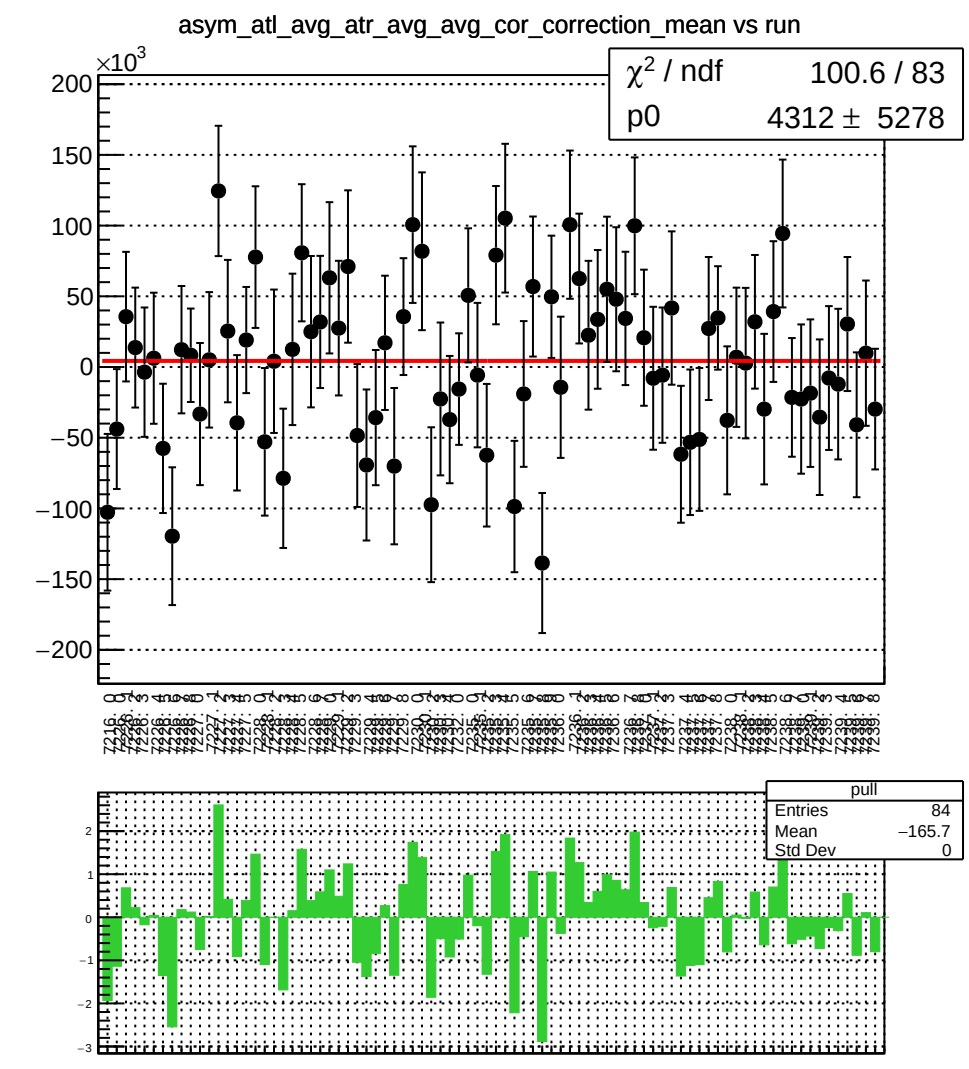

pull1D
Entries 84
Mean −0.006267
Std Dev 1.094

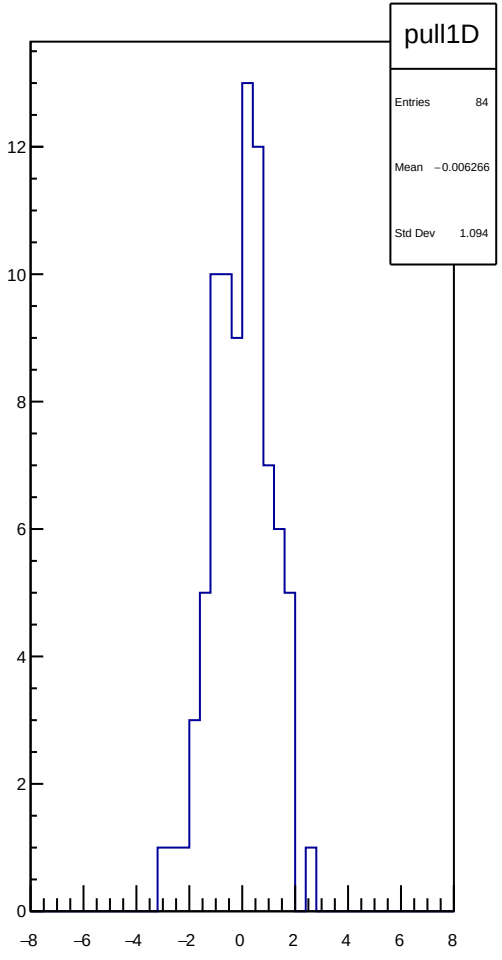

asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 6447 / 83
p0 4750 ± 3.732
5600
5400
5200
5000
4800
4600
4400
4200
4000

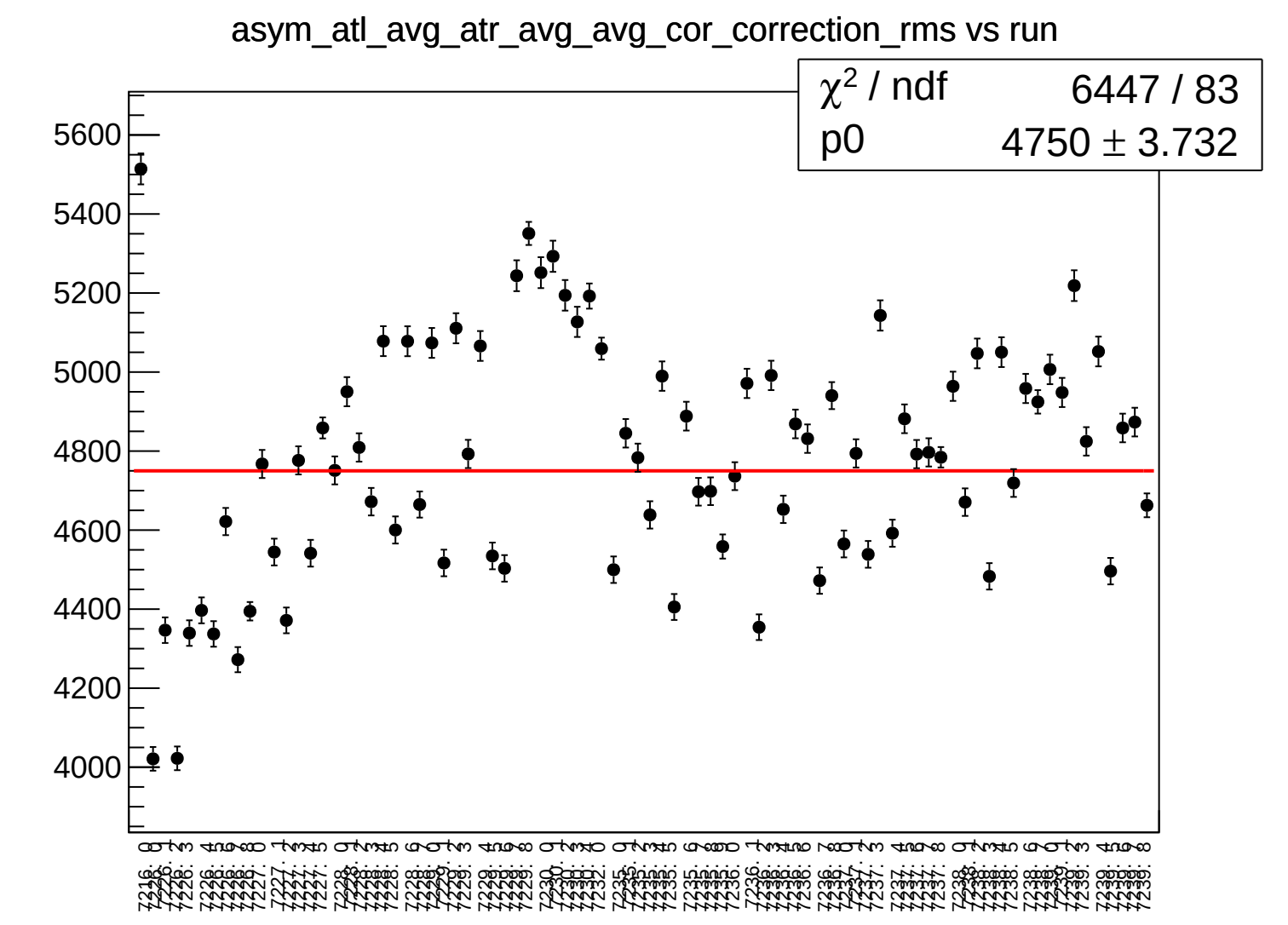

cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 91.67 / 83
p0 −3036 ± 1360
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 648.6
Std Dev 0
3
2
1
0
−1
−2

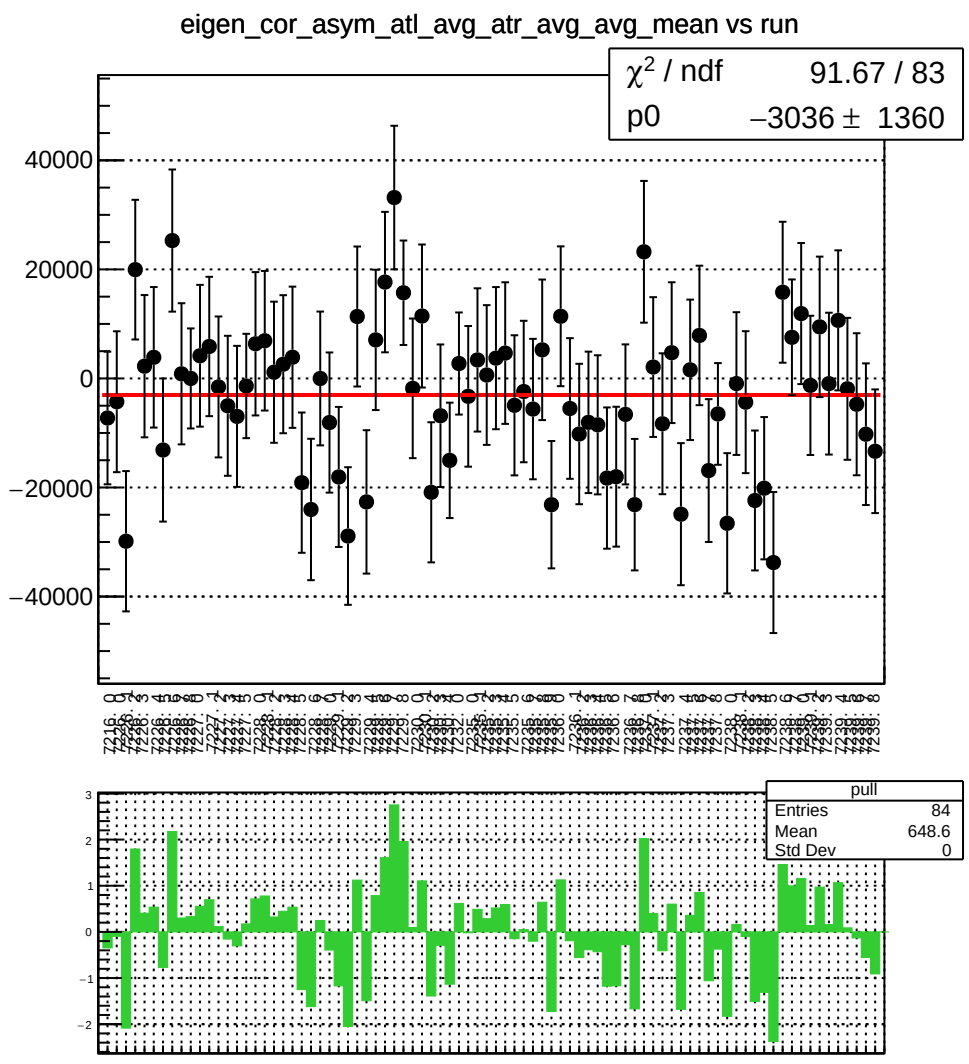

pull1D
Entries 84
Mean −0.005129
Std Dev 1.045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

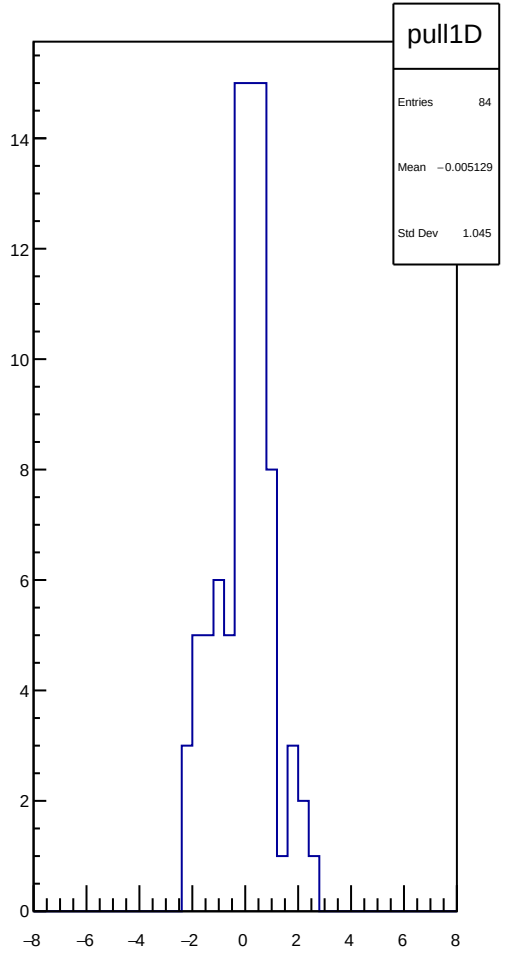

cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 136.5 / 83
p0 1226 ± 0.9613
1260
1250
1240
1230
1220
1210
1200
1190

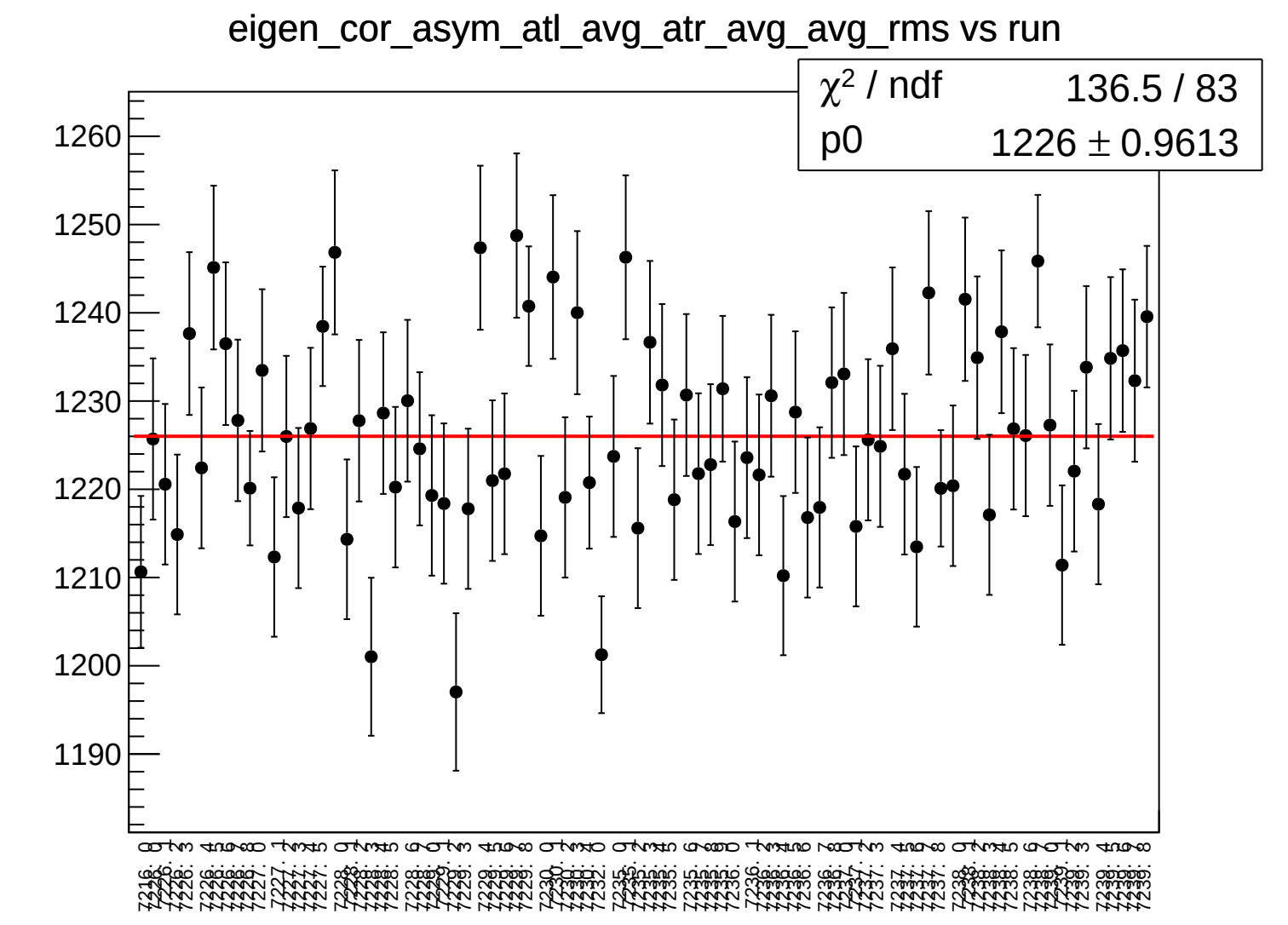

asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 100.6 / 83
p0 4312 ± 5278
pull
Entries 84
Mean −165.7
Std Dev 0

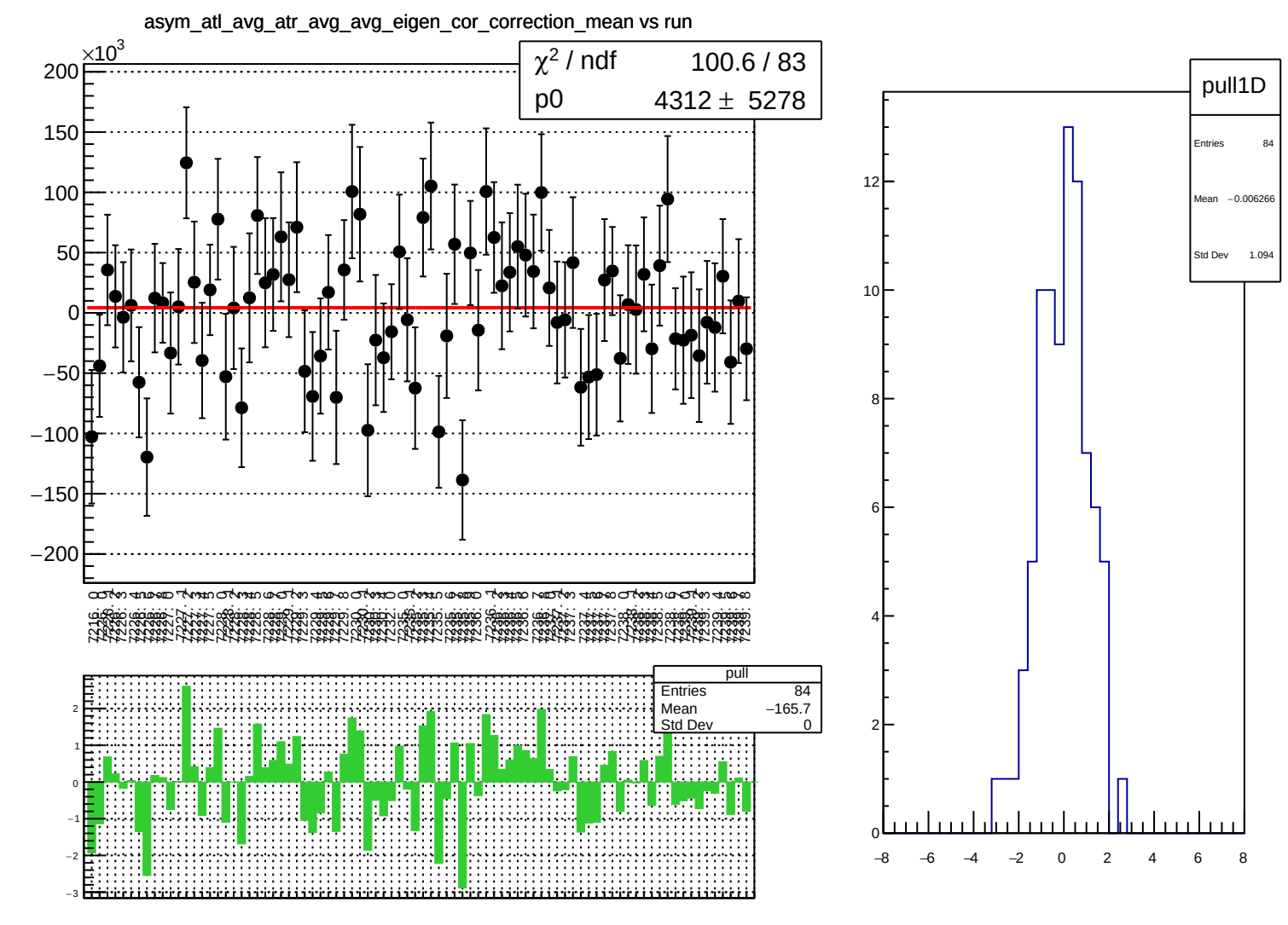

pull1D
Entries 84
Mean −0.006266
Std Dev 1.094

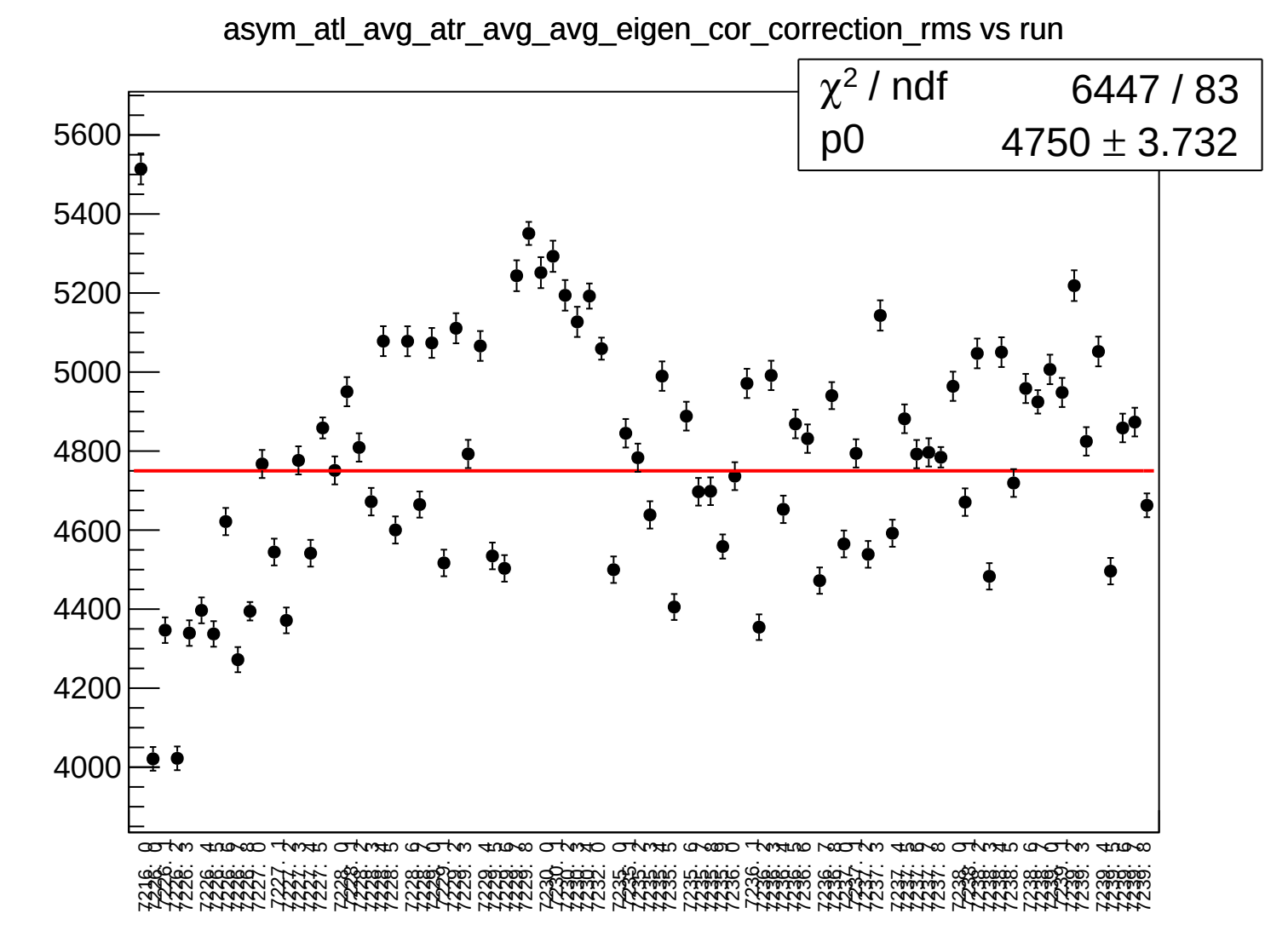

asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 6447 / 83
p0 4750 ± 3.732
5600
5400
5200
5000
4800
4600
4400
4200
4000

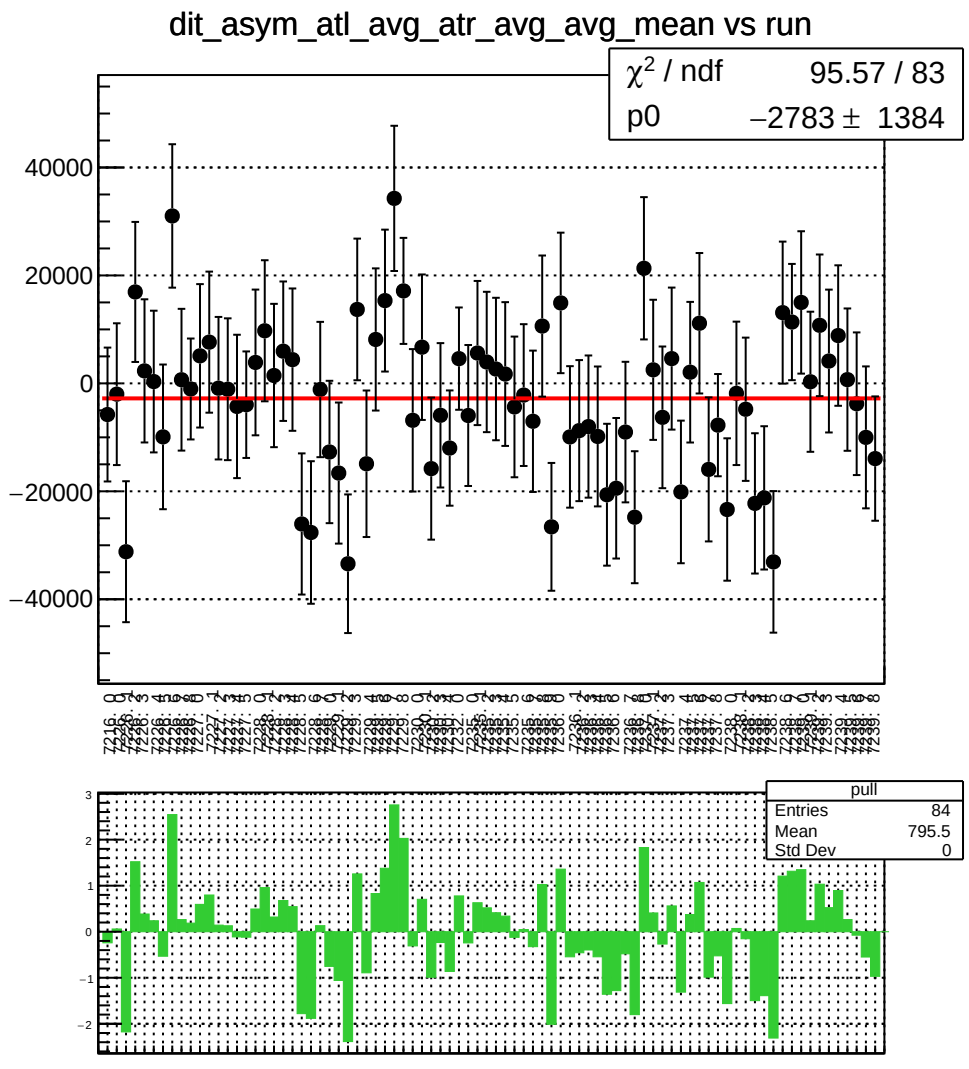

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 91.67 / 83
p0 −3036 ± 1360
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 648.6
Std Dev 0
3
2
1
0
−1
−2

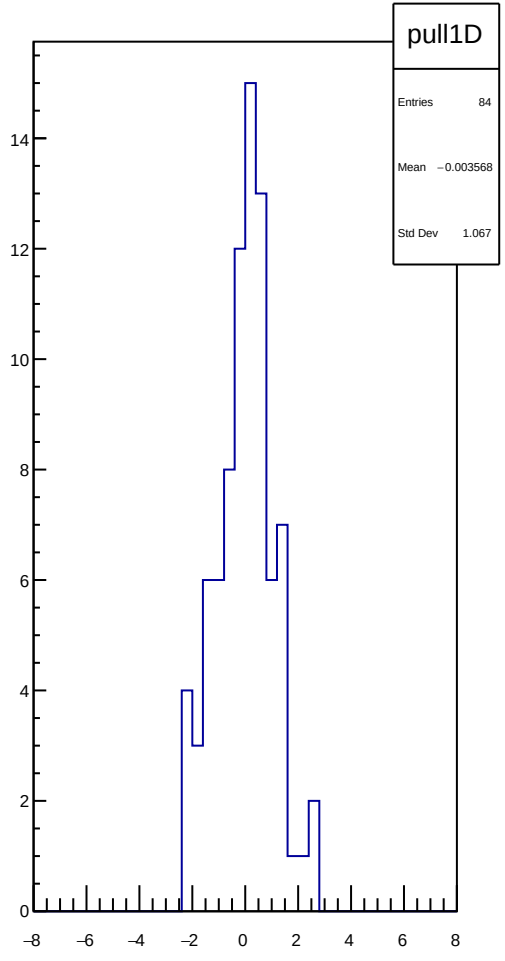

pull1D
Entries 84
Mean −0.005129
Std Dev 1.045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

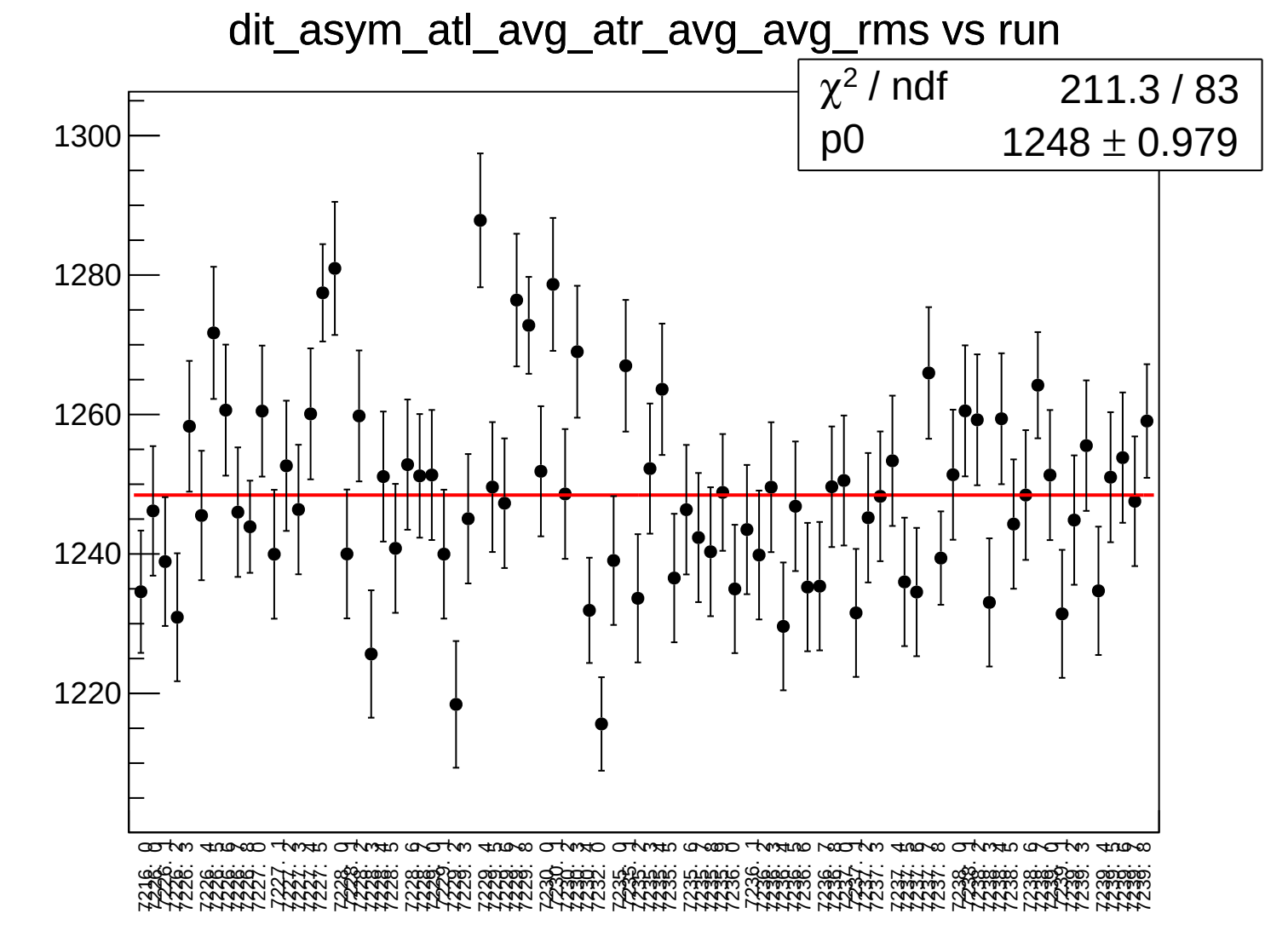

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 136.5 / 83
p0 1226 ± 0.9613
1260
1250
1240
1230
1220
1210
1200
1190

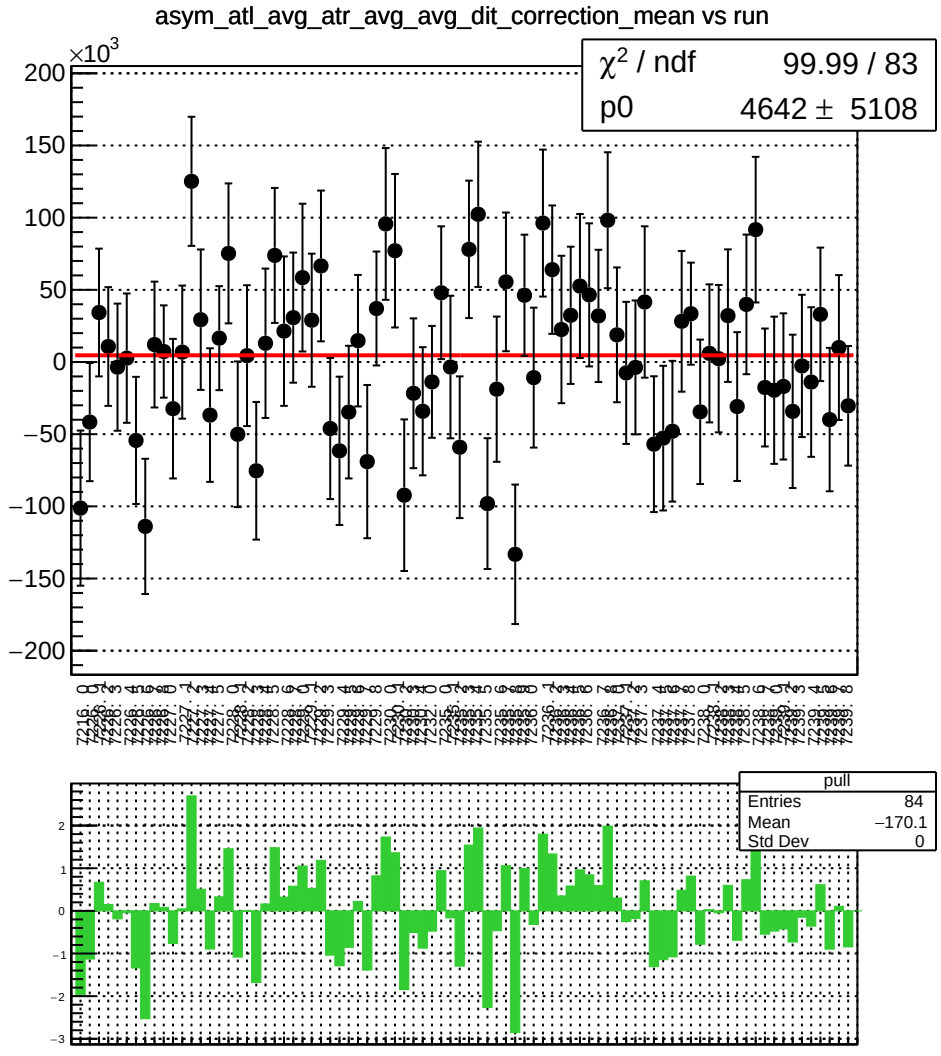

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 100.6 / 83
p0 4312 ± 5278
pull
Entries 84
Mean −165.7
Std Dev 0
pull1D
Entries 84
Mean −0.006266
Std Dev 1.094

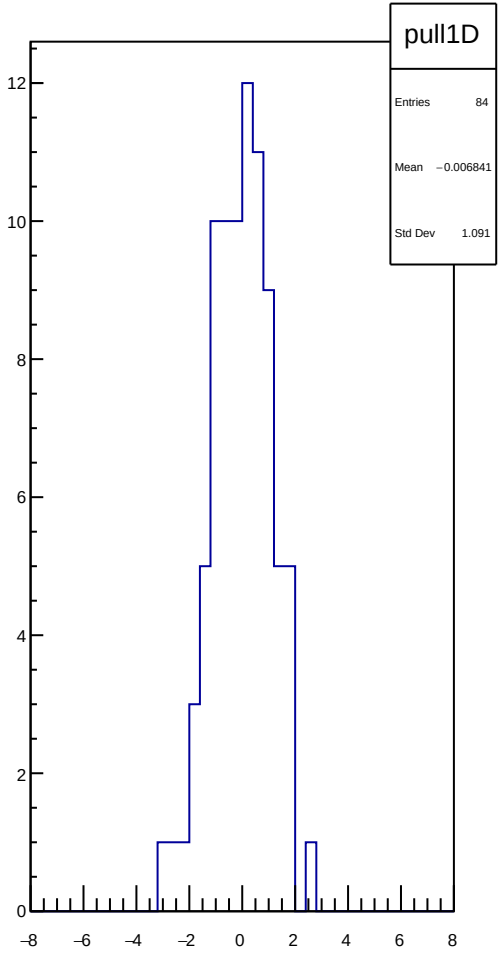

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 6447 / 83
p0 4750 ± 3.732
5600
5400
5200
5000
4800
4600
4400
4200
4000

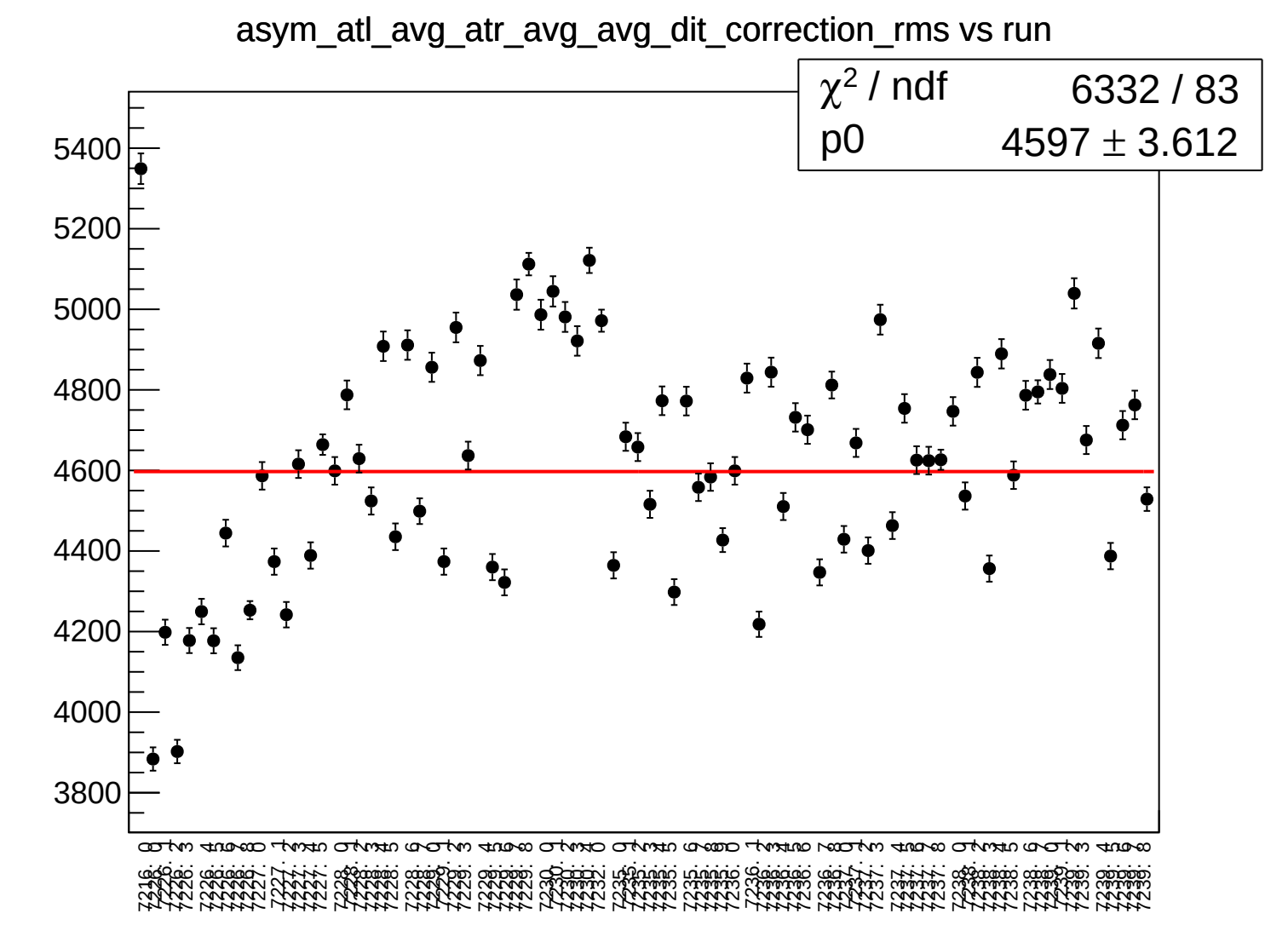

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 95.57 / 83
p0 −2783 ± 1384
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 795.5
Std Dev 0
3
2
1
0
−1
−2

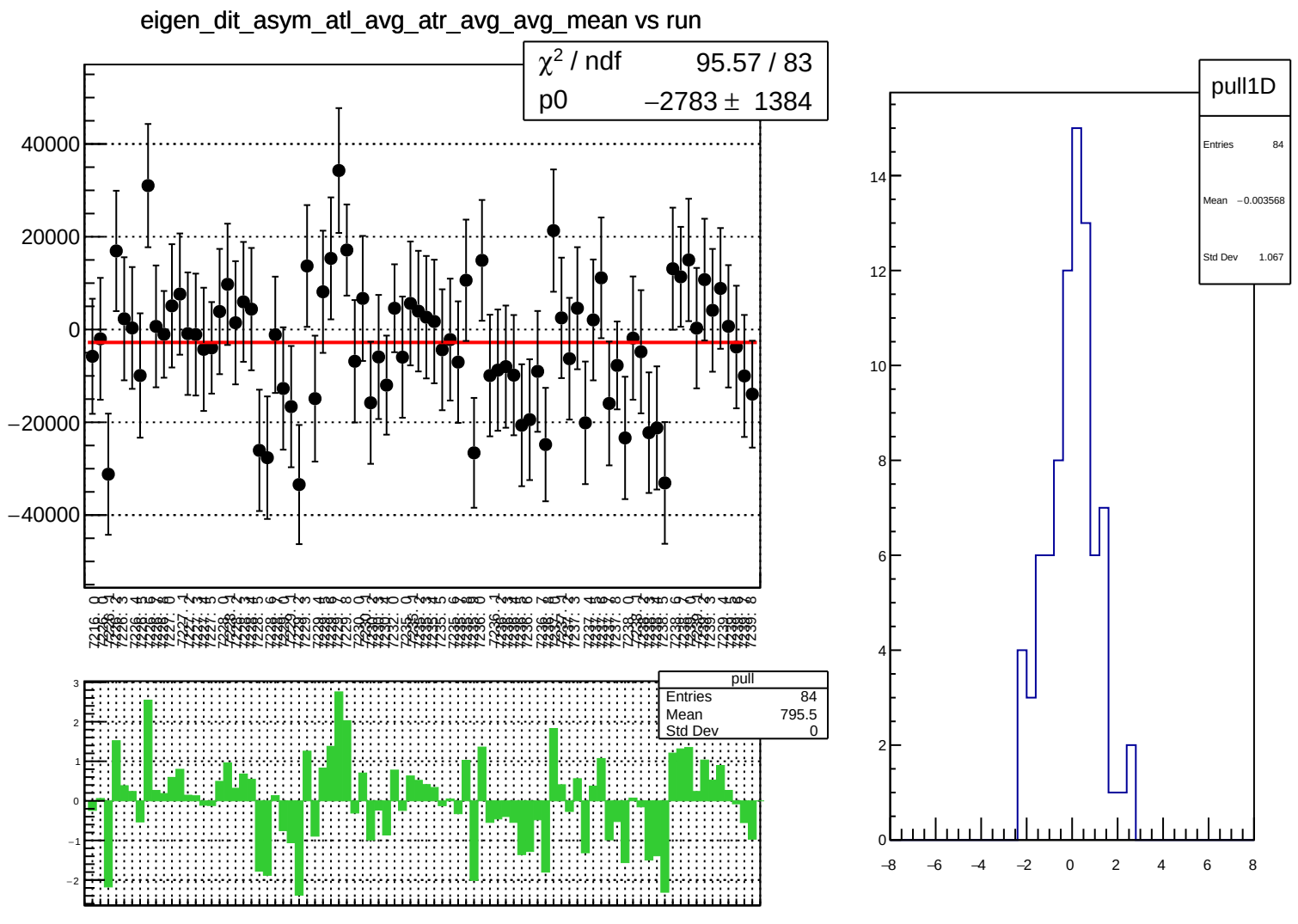

pull1D
Entries 84
Mean −0.003568
Std Dev 1.067
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

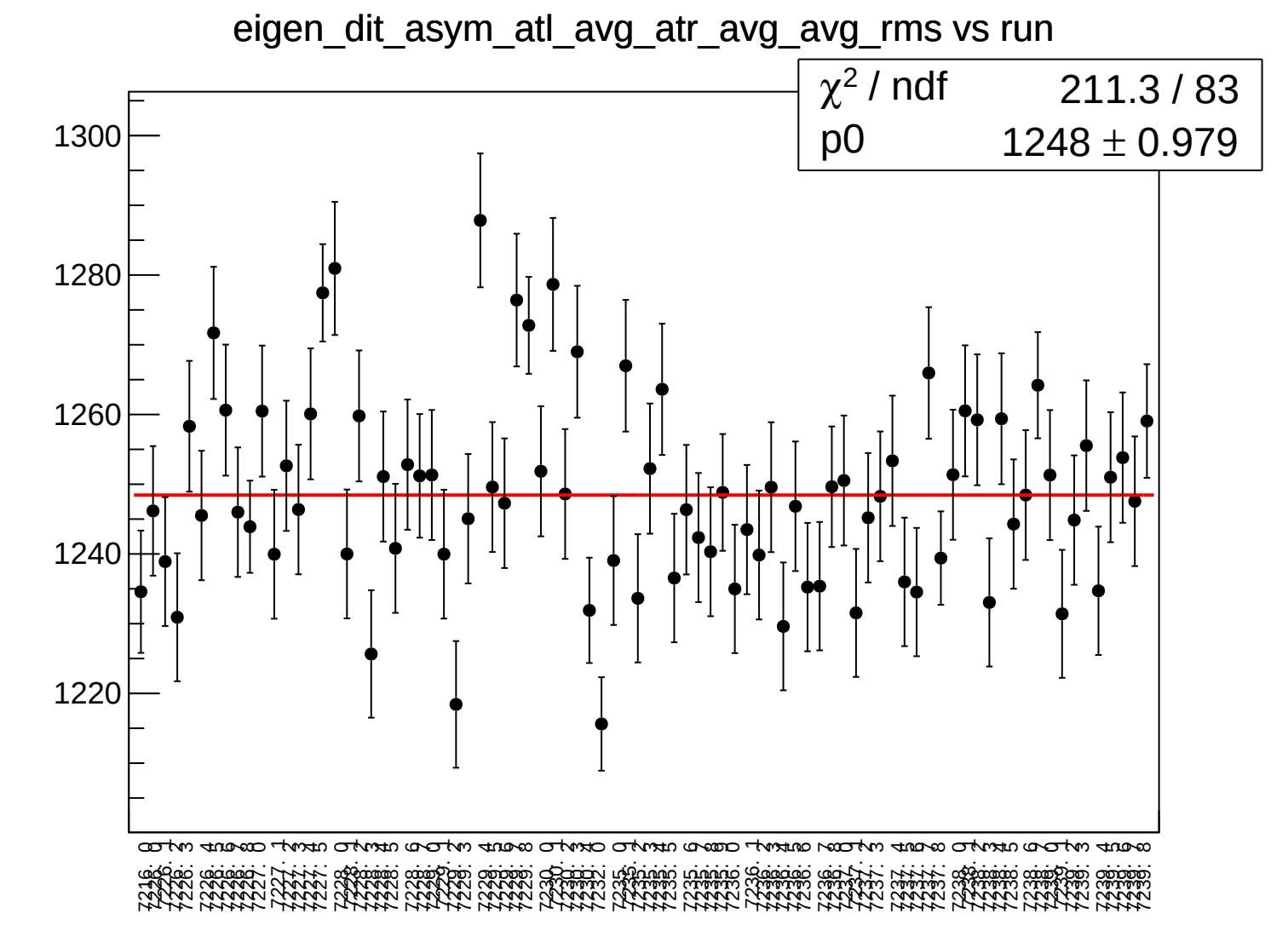

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 211.3 / 83
p0 1248 ± 0.979
1300
1280
1260
1240
1220

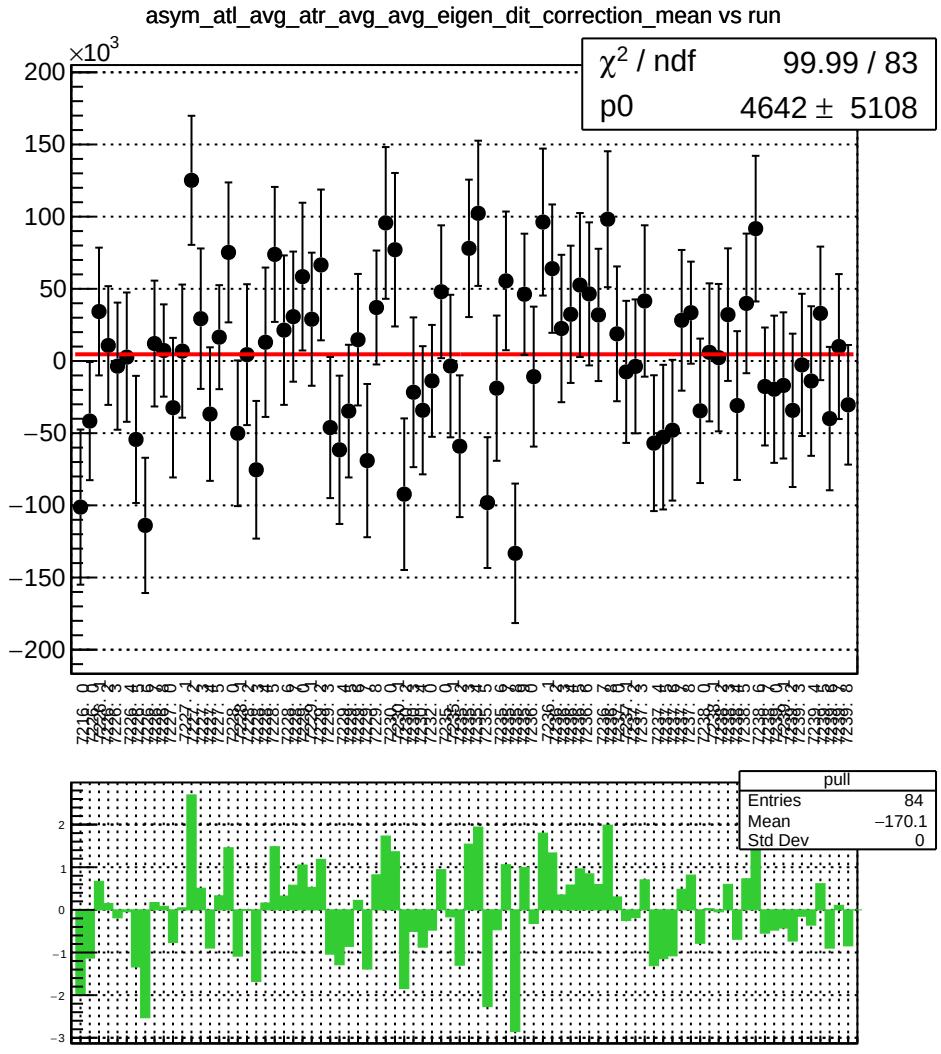

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
χ² / ndf 99.99 / 83
p0 4642 ± 5108
pull
Entries 84
Mean −170.1
Std Dev 0

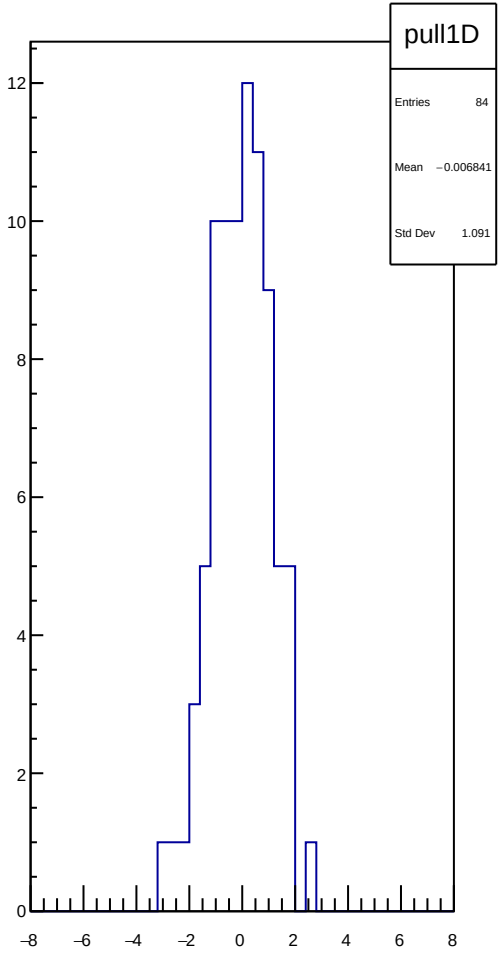

pull1D
Entries 84
Mean −0.006841
Std Dev 1.091

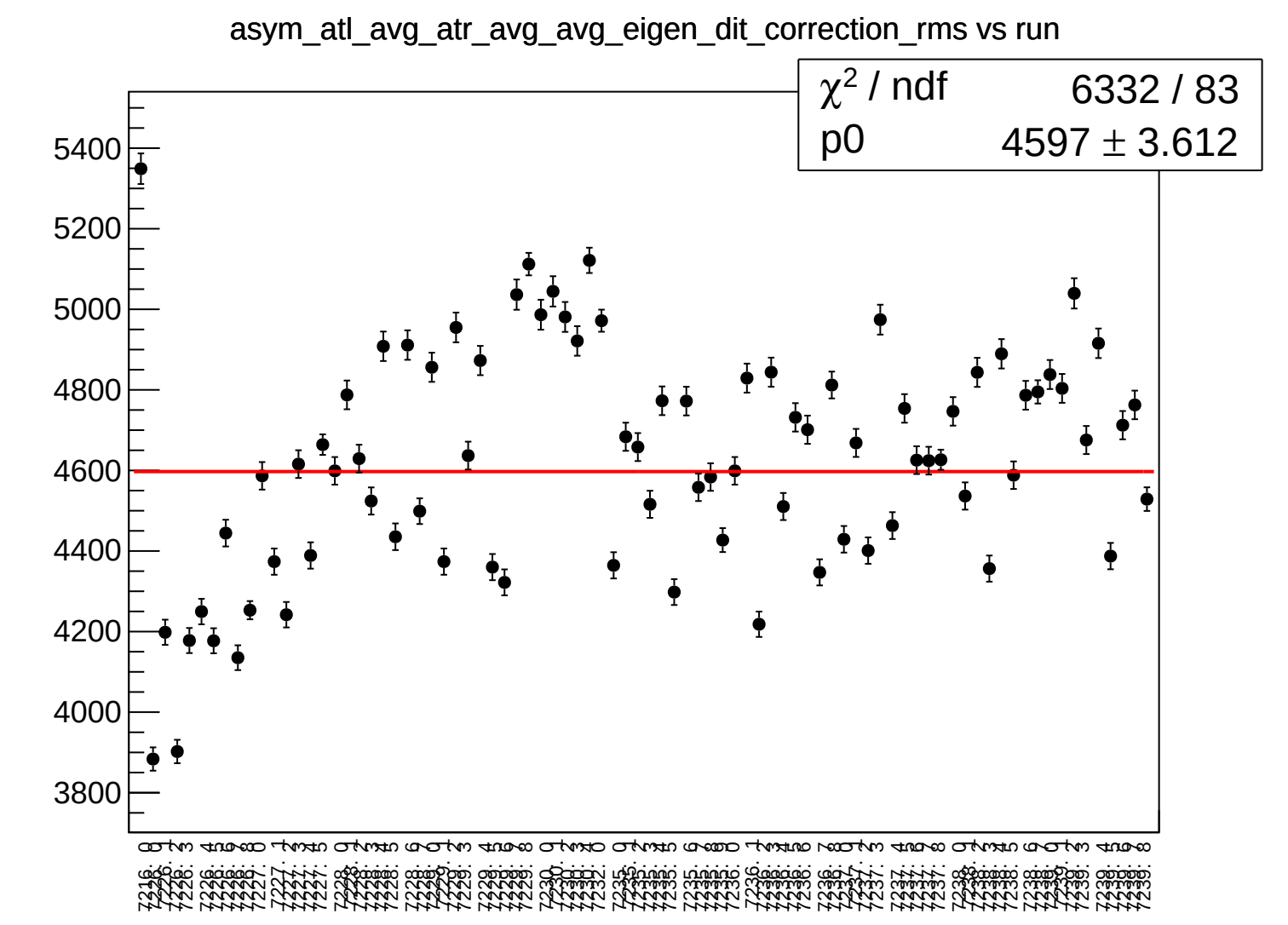

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 6332 / 83
p0 4597 ± 3.612
5400
5200
5000
4800
4600
4400
4200
4000
3800

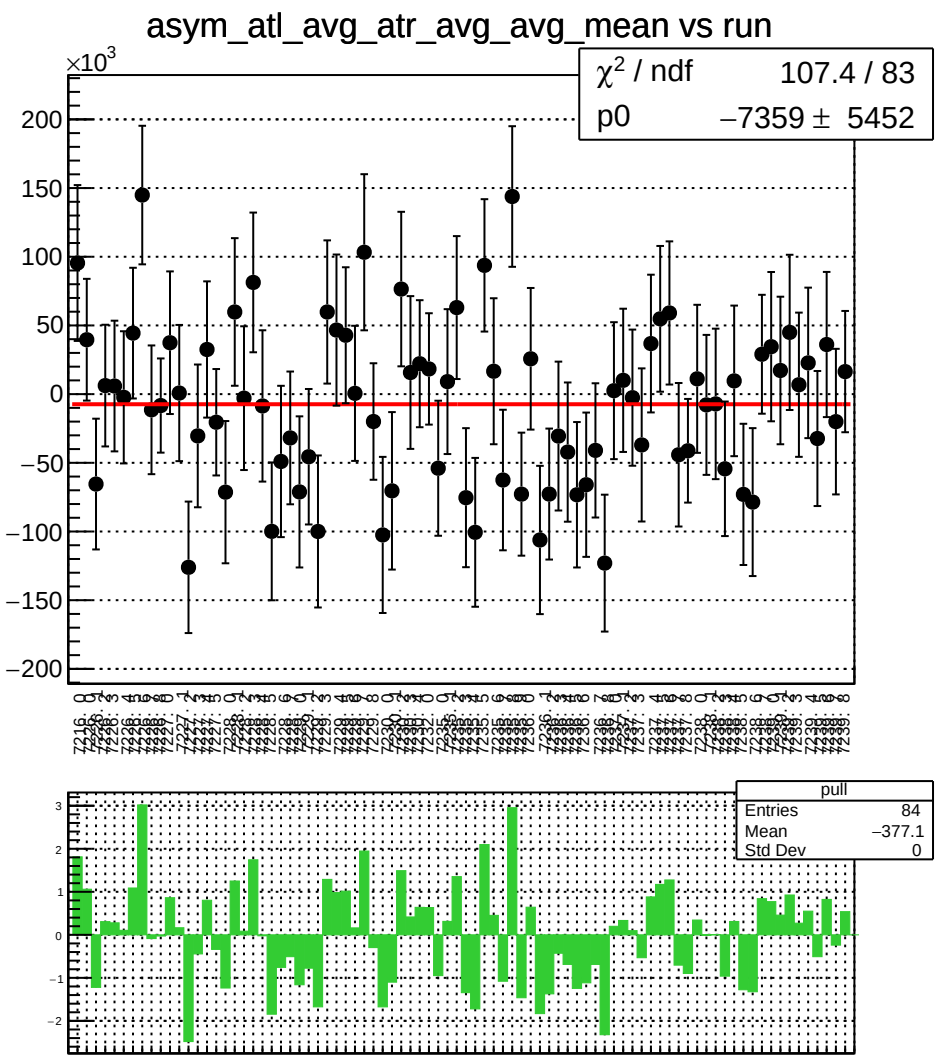

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 95.57 / 83
p0 −2783 ± 1384
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 795.5
Std Dev 0
pull1D
Entries 84
Mean −0.003568
Std Dev 1.067

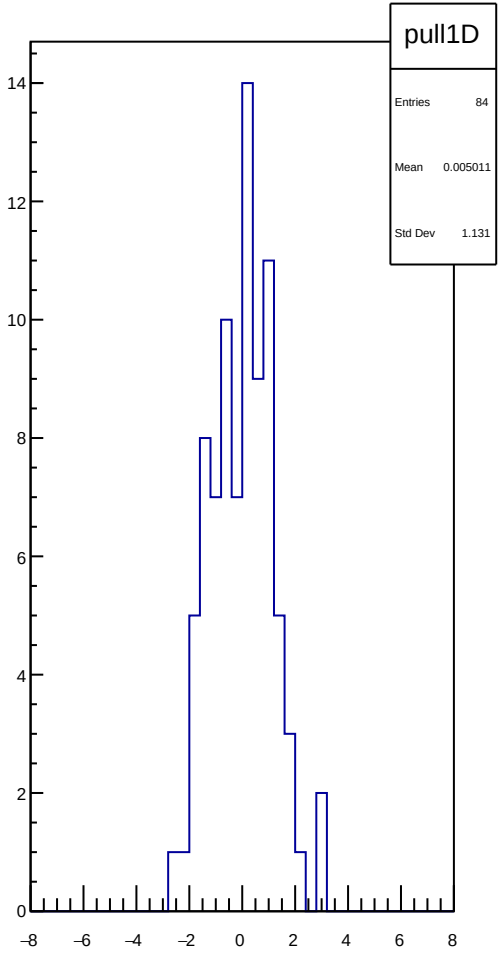

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 211.3 / 83
p0 1248 ± 0.979
1300
1280
1260
1240
1220

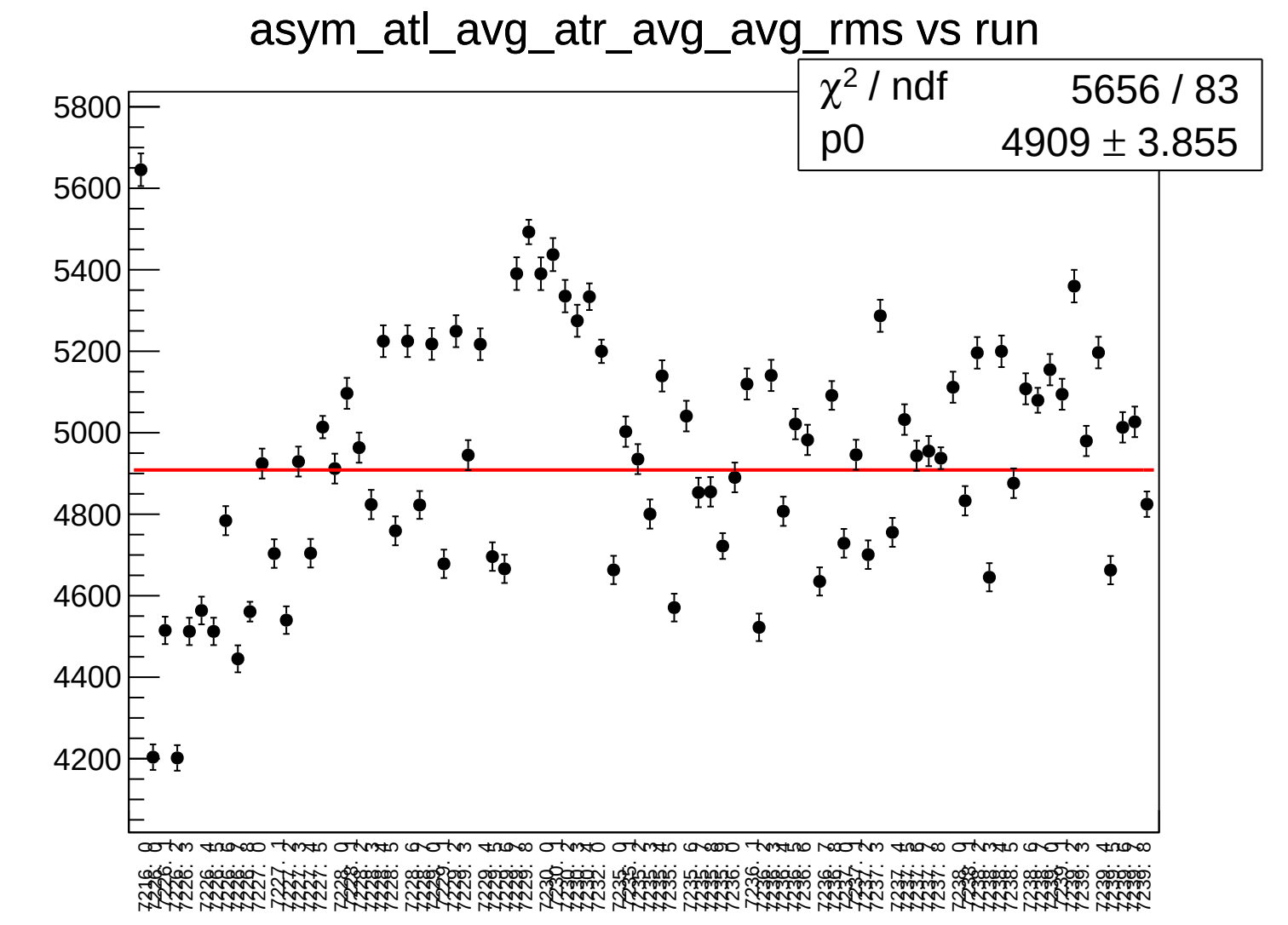

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
χ² / ndf 99.99 / 83
p0 4642 ± 5108
pull
Entries 84
Mean −170.1
Std Dev 0

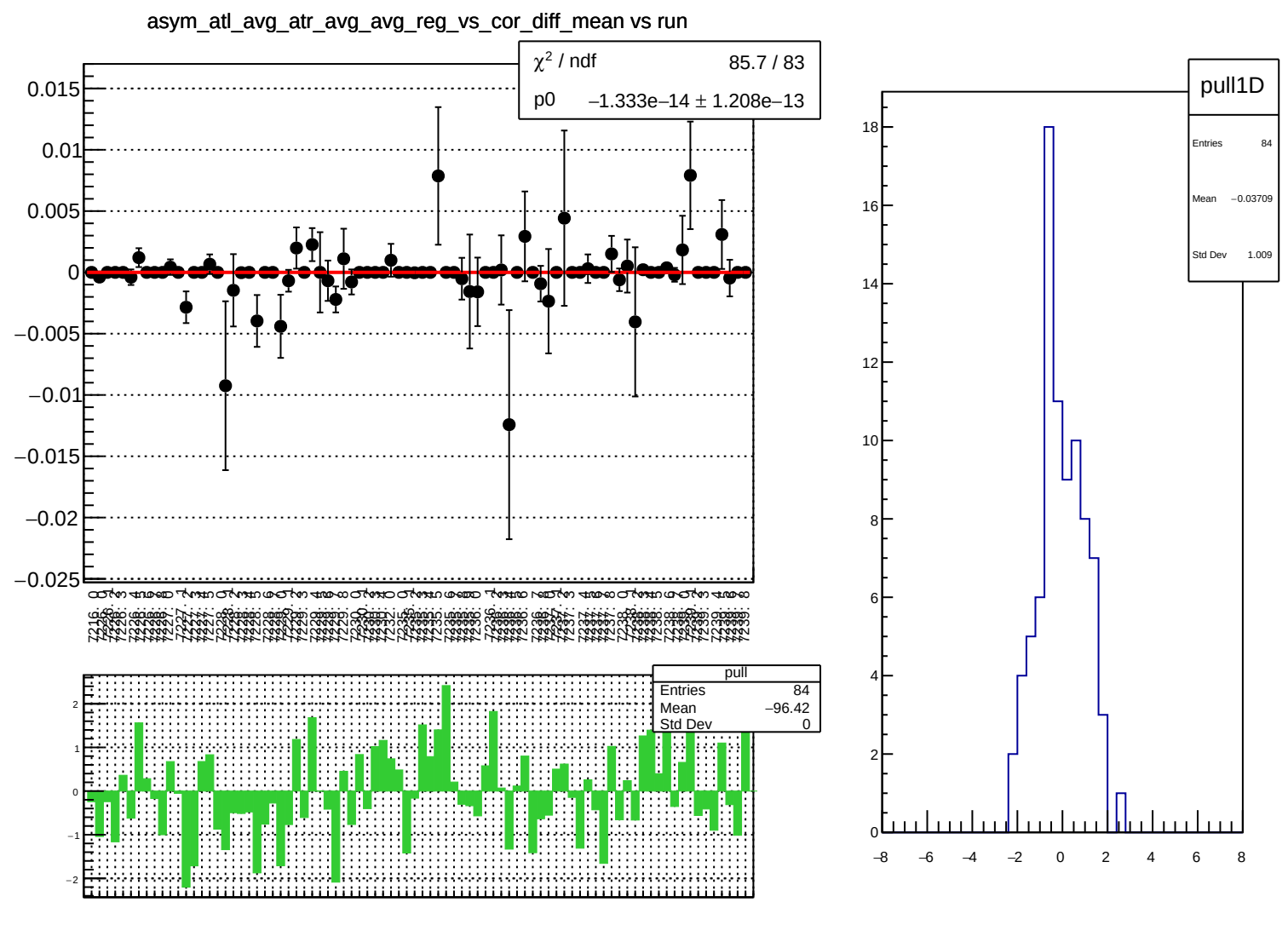

pull1D
Entries 84
Mean −0.006841
Std Dev 1.091

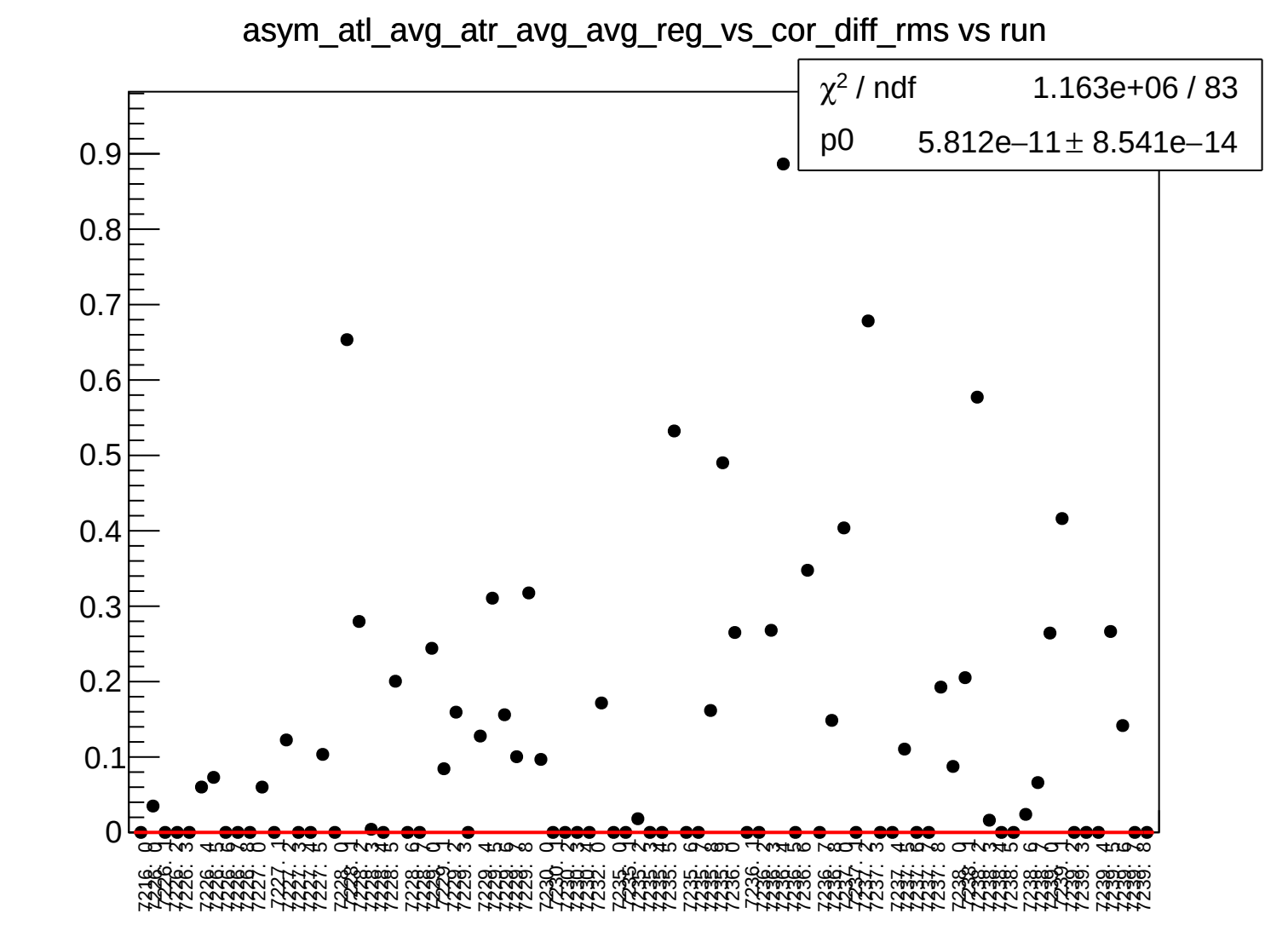

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 6332 / 83
p0 4597 ± 3.612
5400
5200
5000
4800
4600
4400
4200
4000
3800

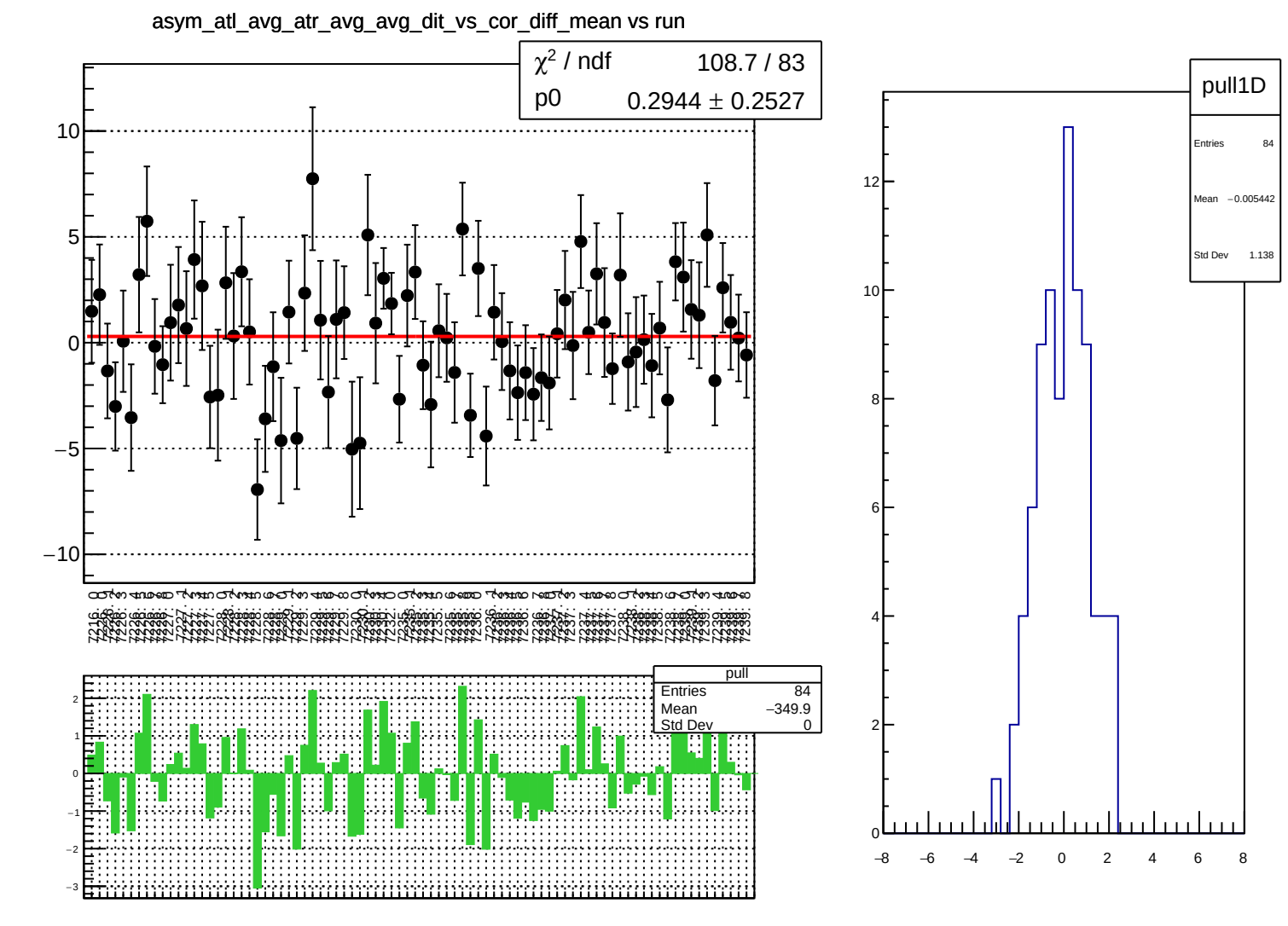

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 107.4 / 83
p0 −7359 ± 5452
pull
Entries 84
Mean −377.1
Std Dev 0

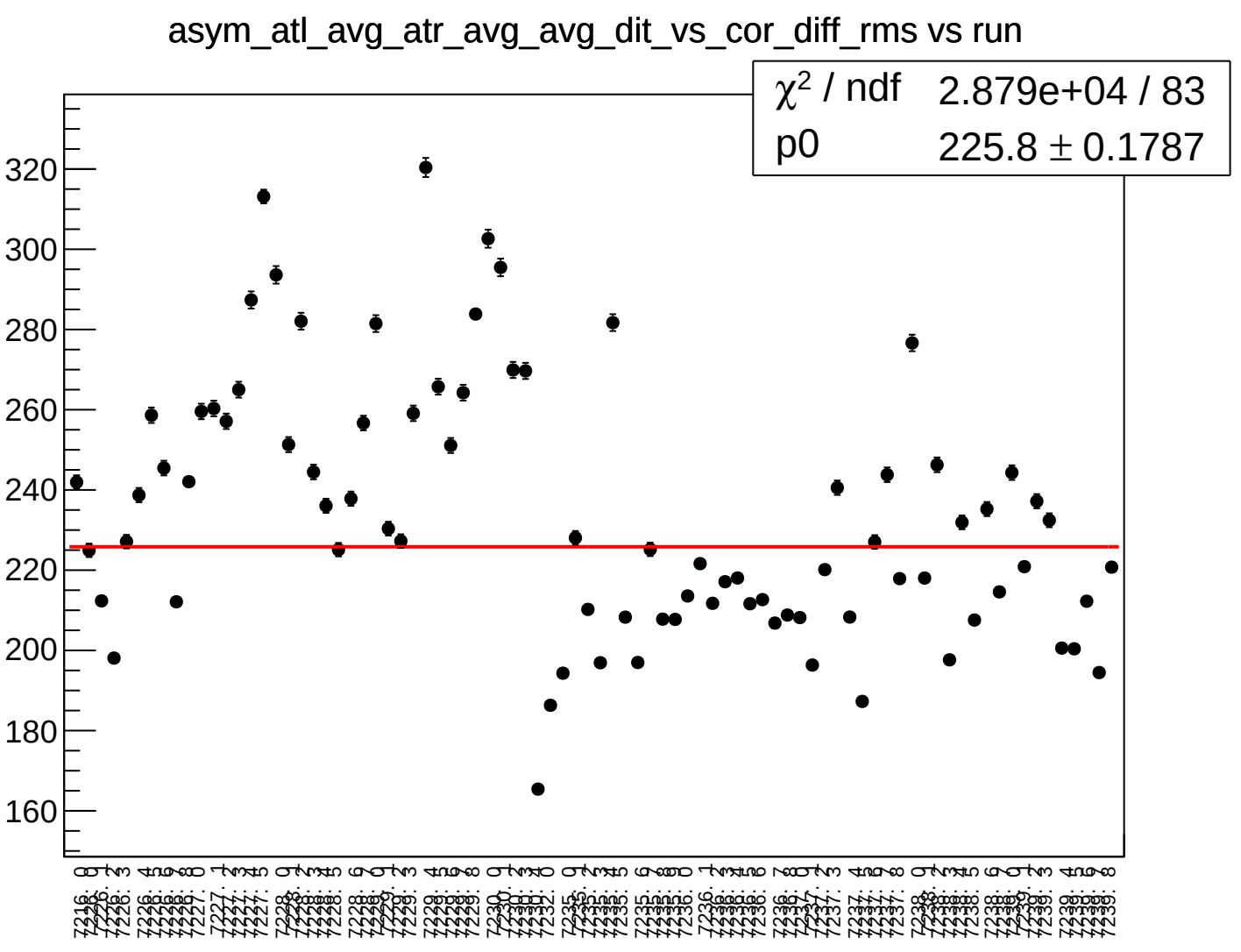

pull1D
Entries 84
Mean 0.005011
Std Dev 1.131

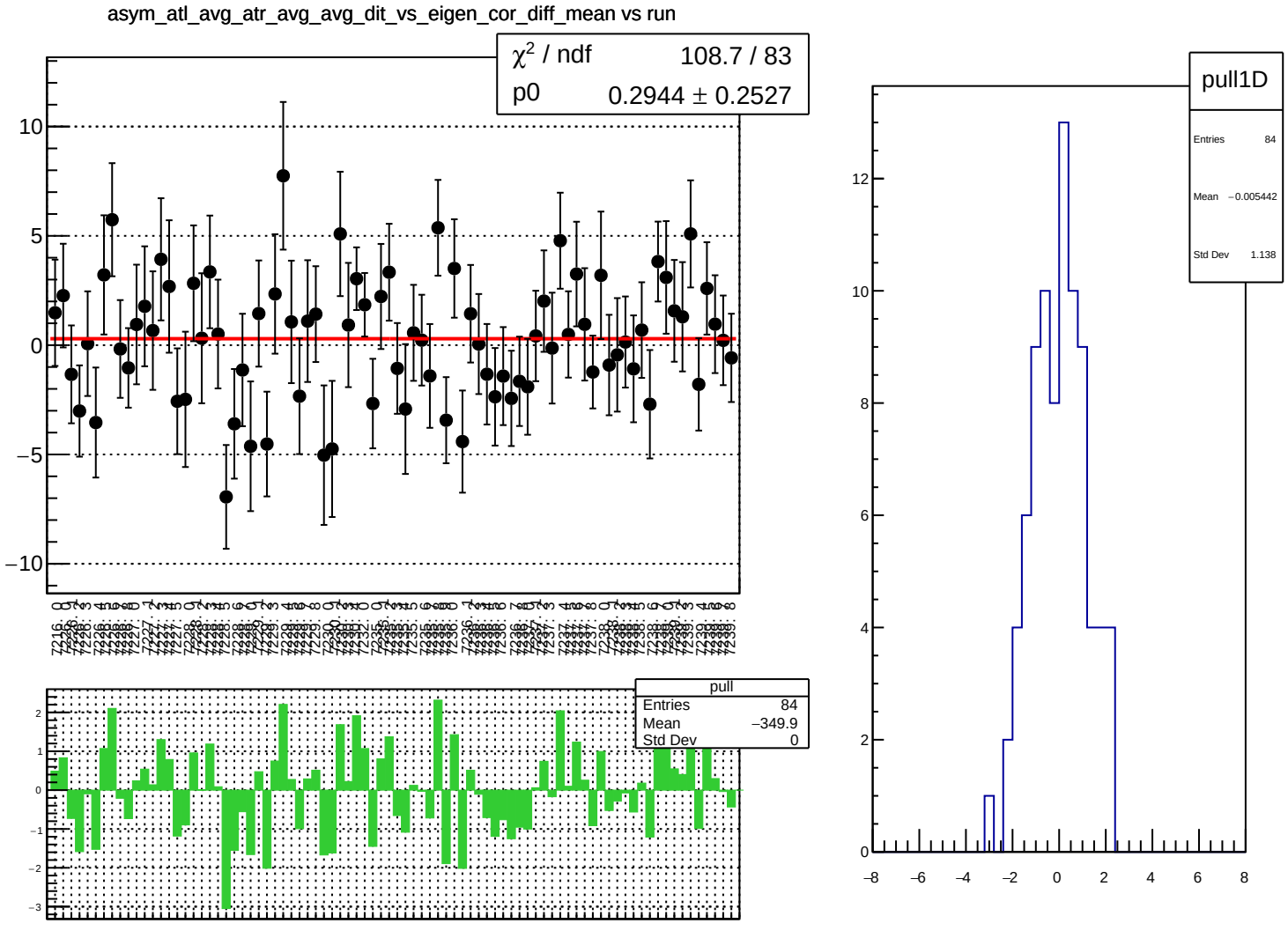

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 5656 / 83
p0 4909 ± 3.855
5800
5600
5400
5200
5000
4800
4600
4400
4200

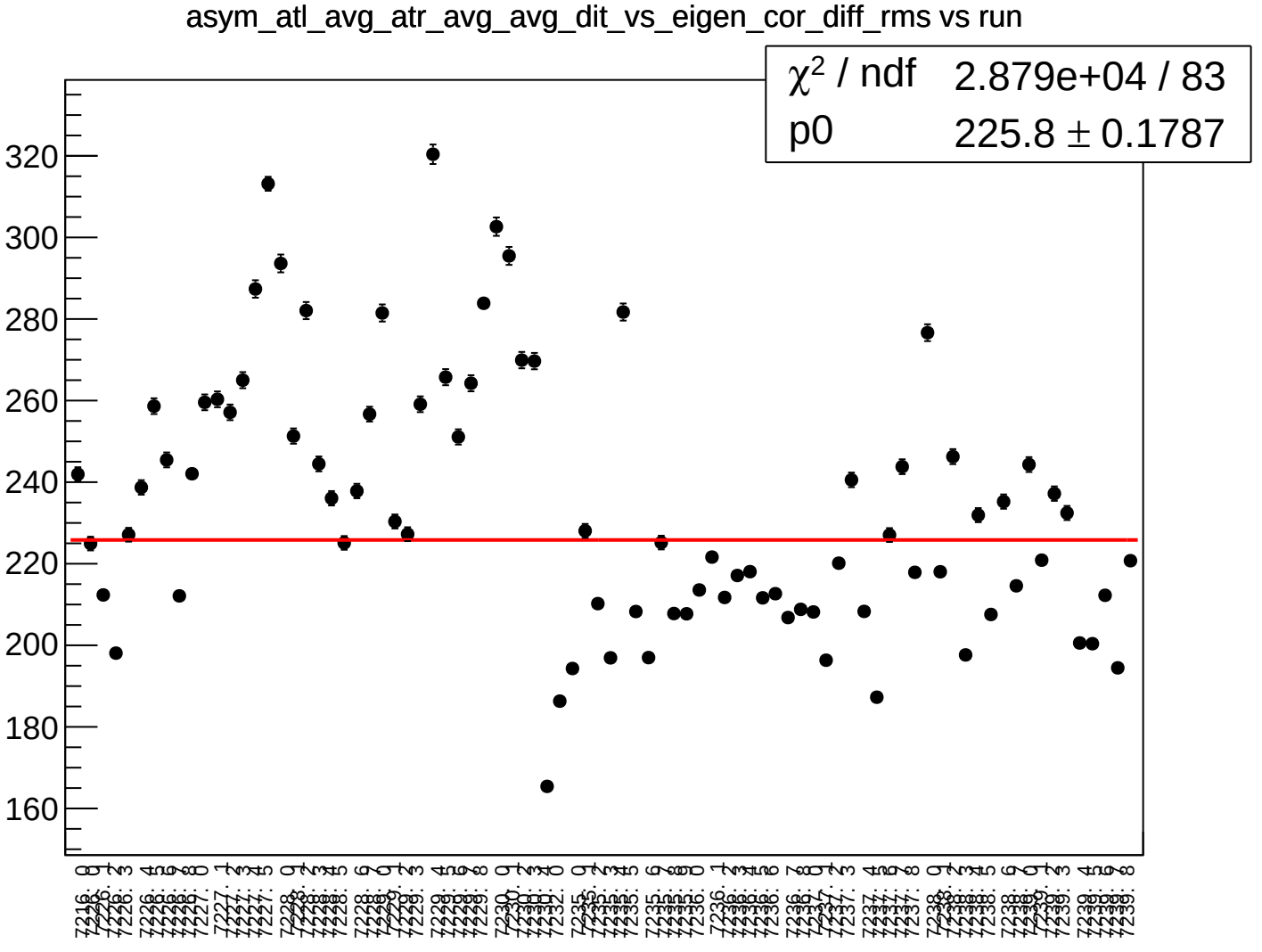

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 85.7 / 83
p0 −1.333e−14 ± 1.208e−13
pull
Entries 84
Mean −96.42
Std Dev 0
pull1D
Entries 84
Mean −0.03709
Std Dev 1.009

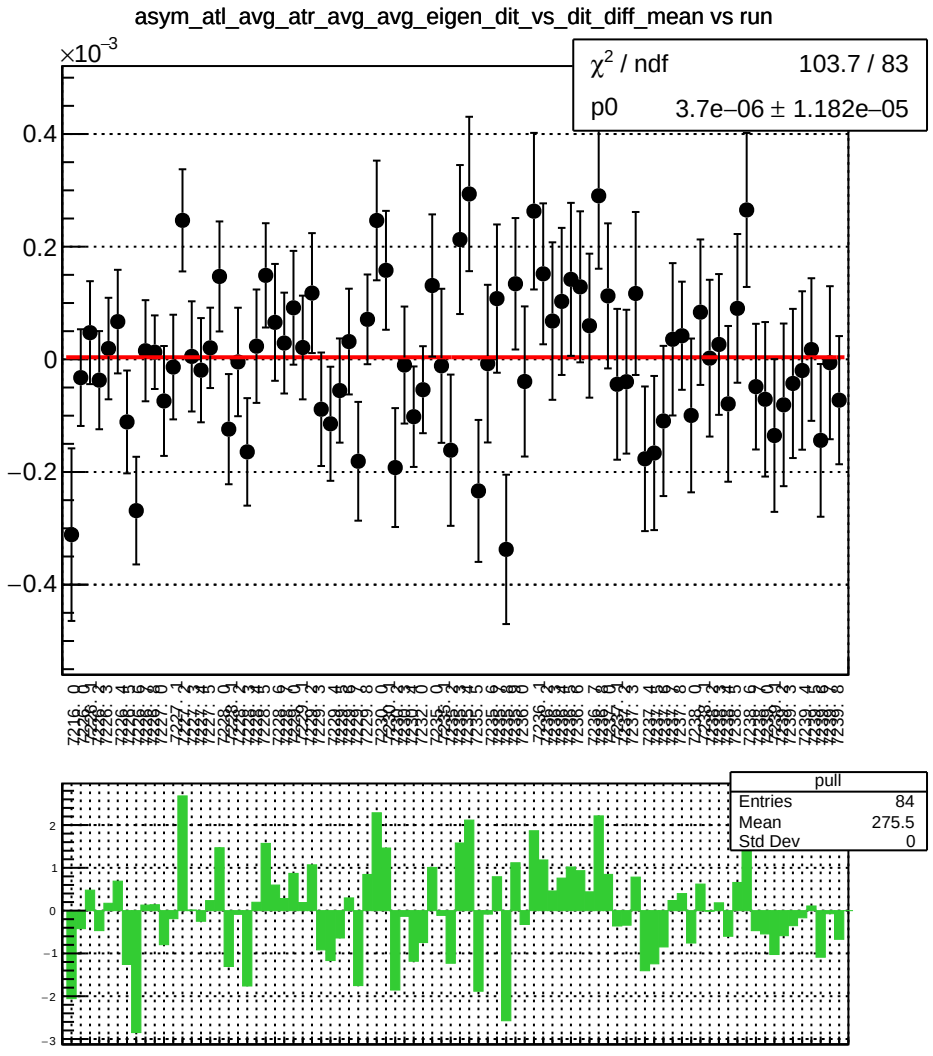

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.163e+06 / 83
p0 5.812e−11 ± 8.541e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

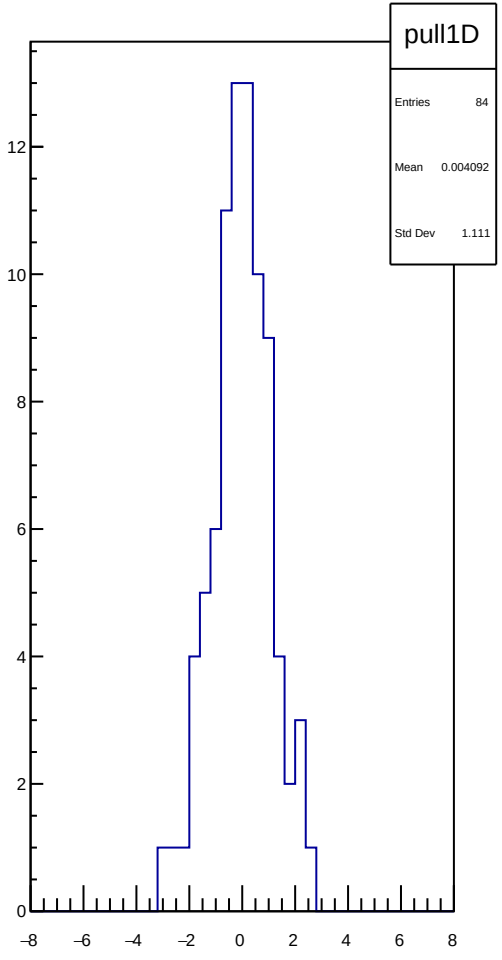

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 108.7 / 83
p0 0.2944 ± 0.2527
pull
Entries 84
Mean −349.9
Std Dev 0
pull1D
Entries 84
Mean −0.005442
Std Dev 1.138

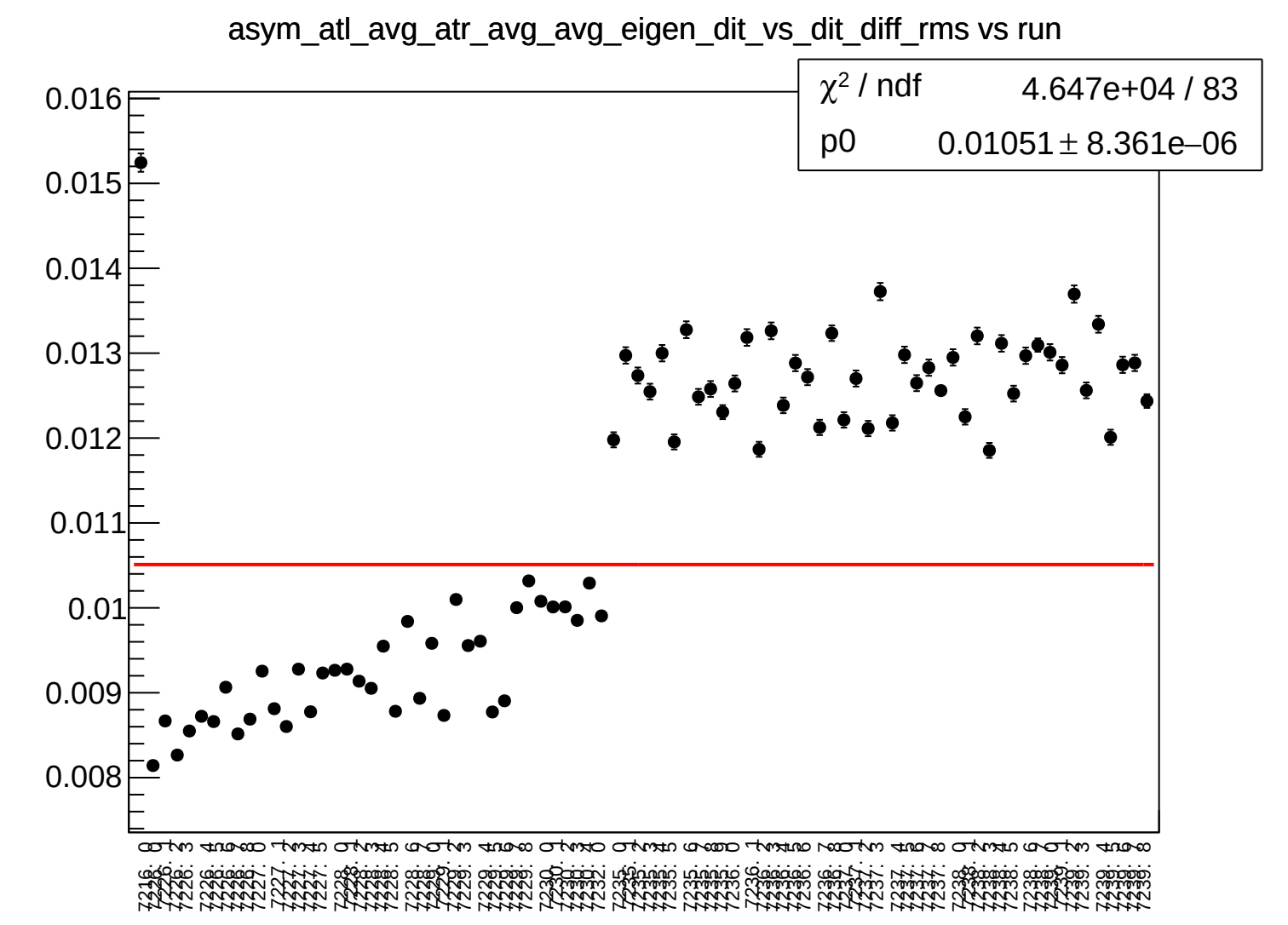

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.879e+04 / 83
p0 225.8 ± 0.1787
320
300
280
260
240
220
200
180
160

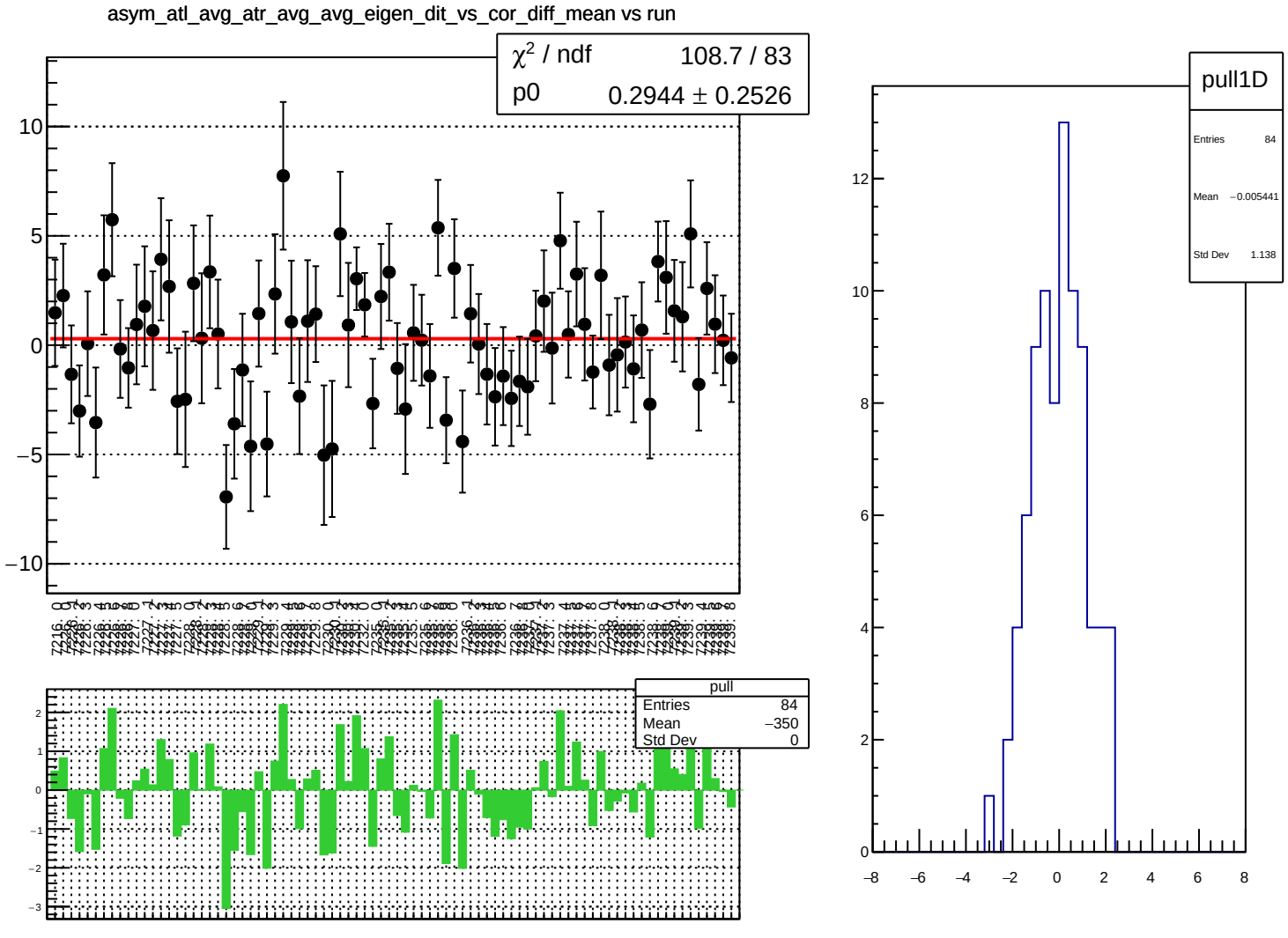

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.7 / 83
p0 0.2944 ± 0.2527
pull
Entries 84
Mean −349.9
Std Dev 0
pull1D
Entries 84
Mean −0.005442
Std Dev 1.138

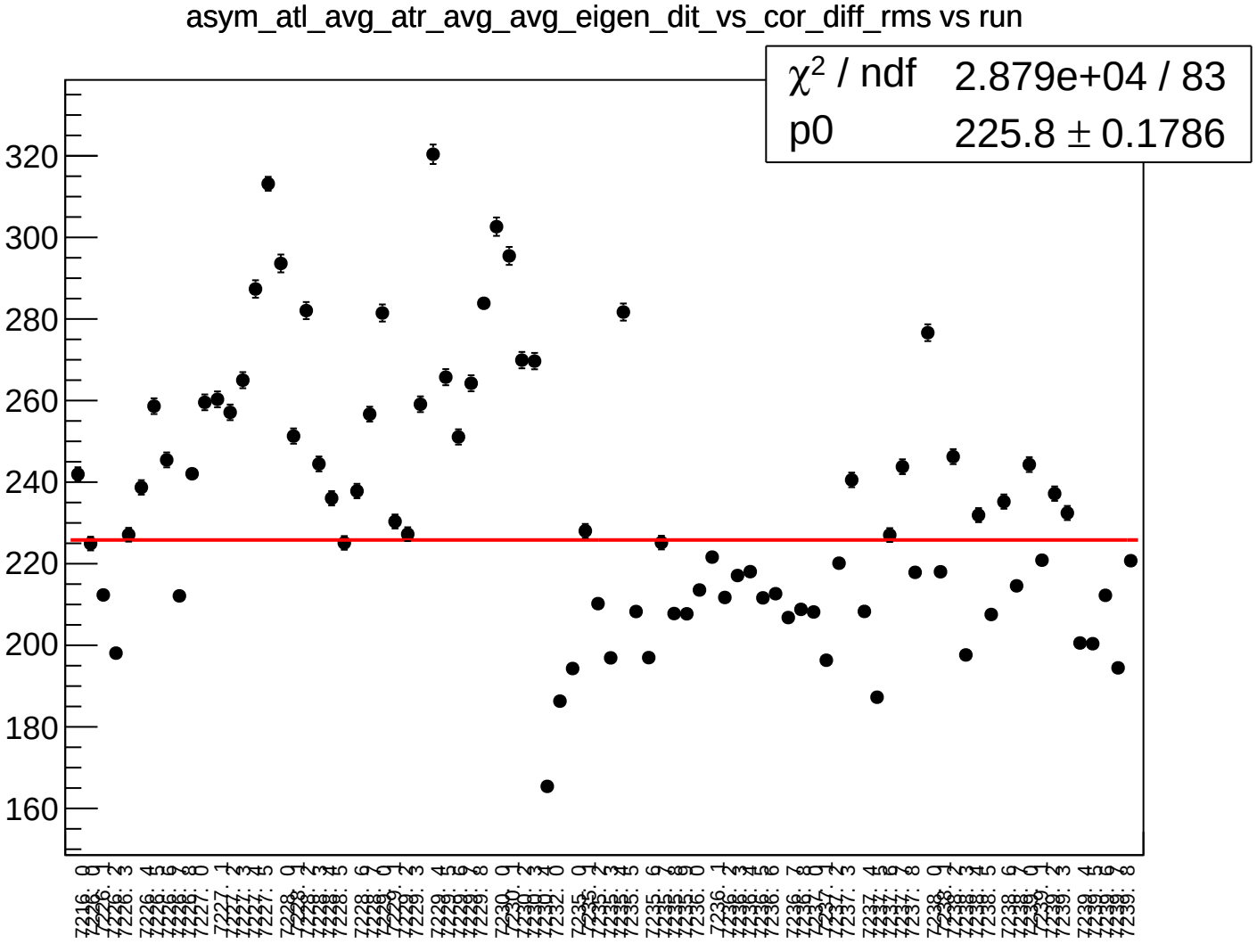

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.879e+04 / 83
p0 225.8 ± 0.1787
320
300
280
260
240
220
200
180
160

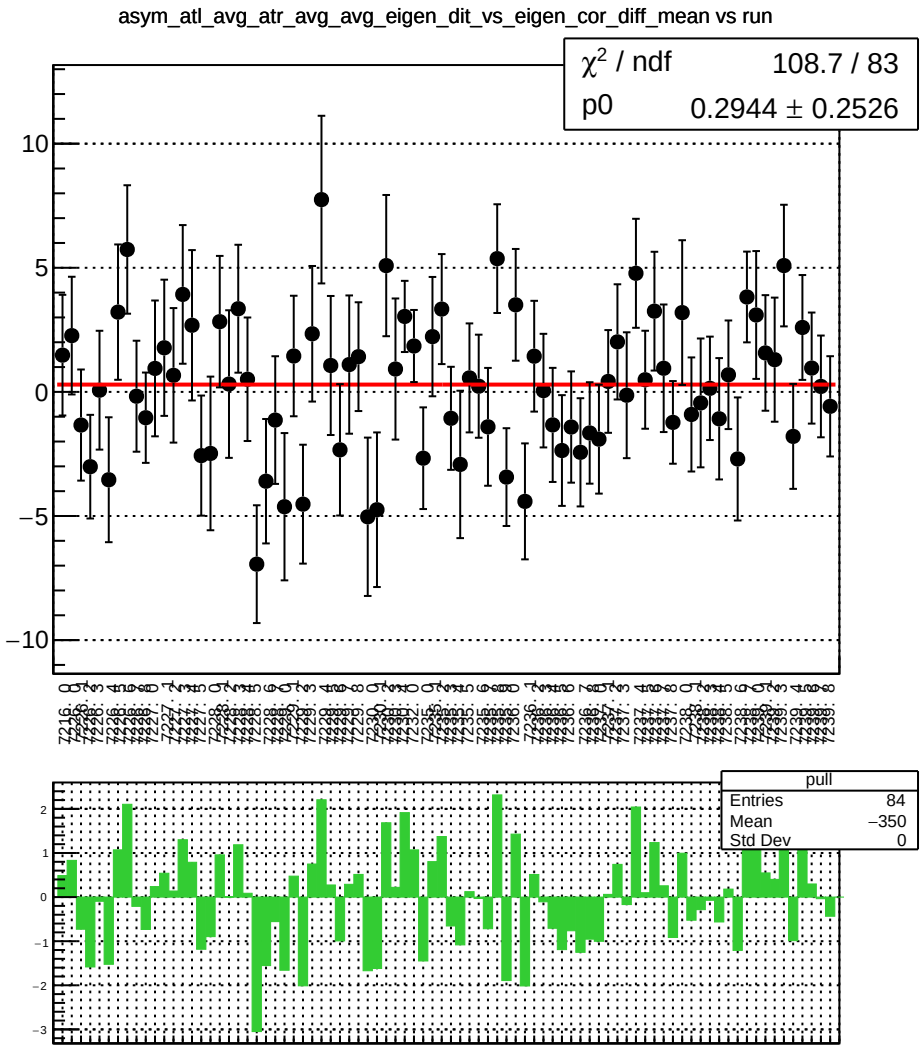

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103.7 / 83
p0 3.7e−06 ± 1.182e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 84
Mean 275.5
Std Dev 0
2
1
0
−1
−2
−3

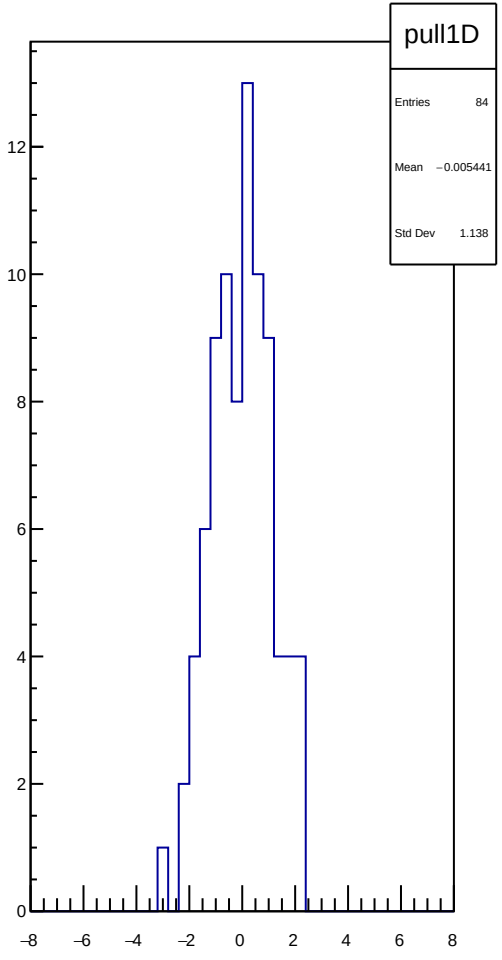

pull1D
Entries 84
Mean 0.004092
Std Dev 1.111
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

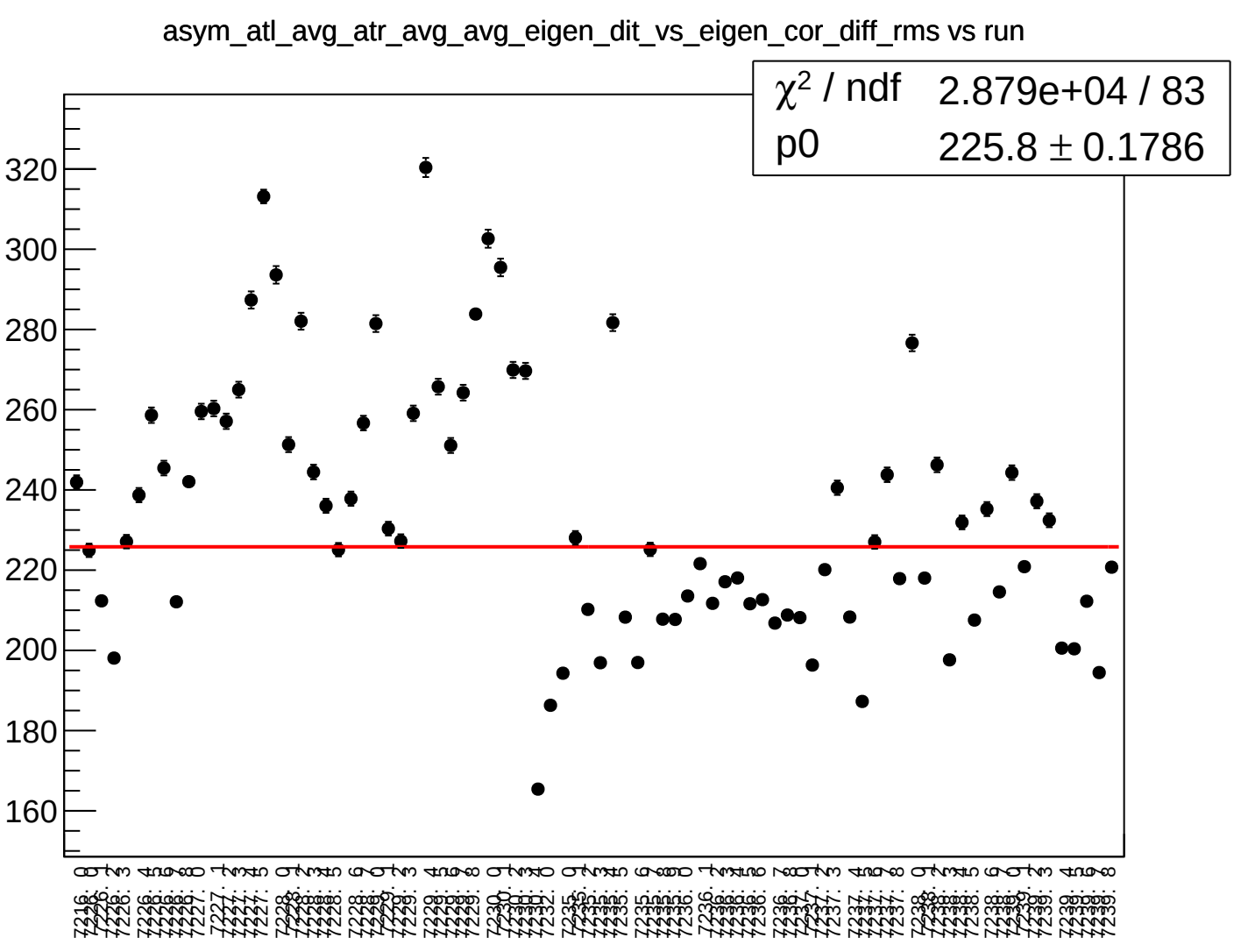

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.647e+04 / 83
p0 0.01051 ± 8.361e−06
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008

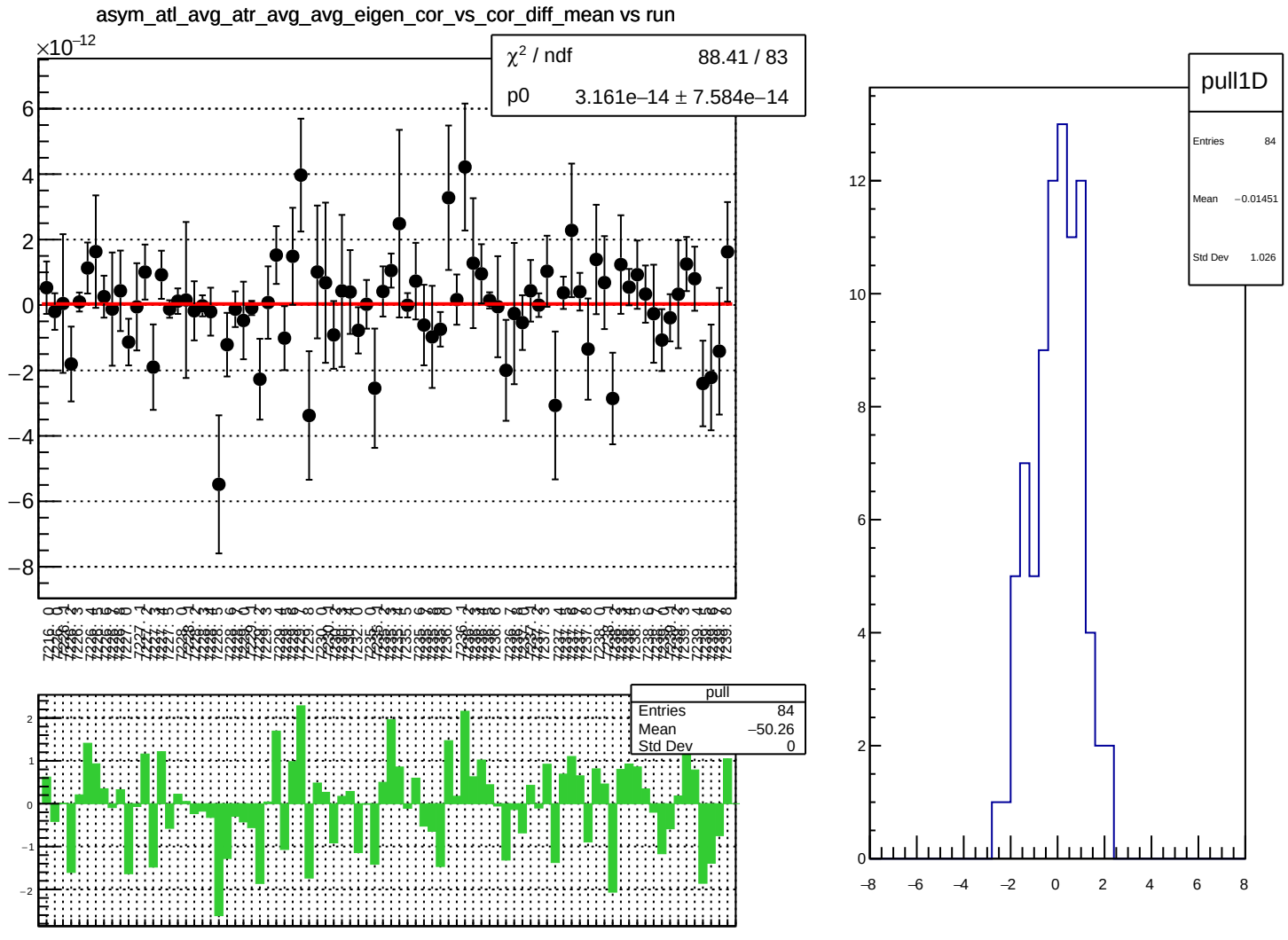

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 108.7 / 83
p0 0.2944 ± 0.2526
pull
Entries 84
Mean −350
Std Dev 0
pull1D
Entries 84
Mean −0.005441
Std Dev 1.138

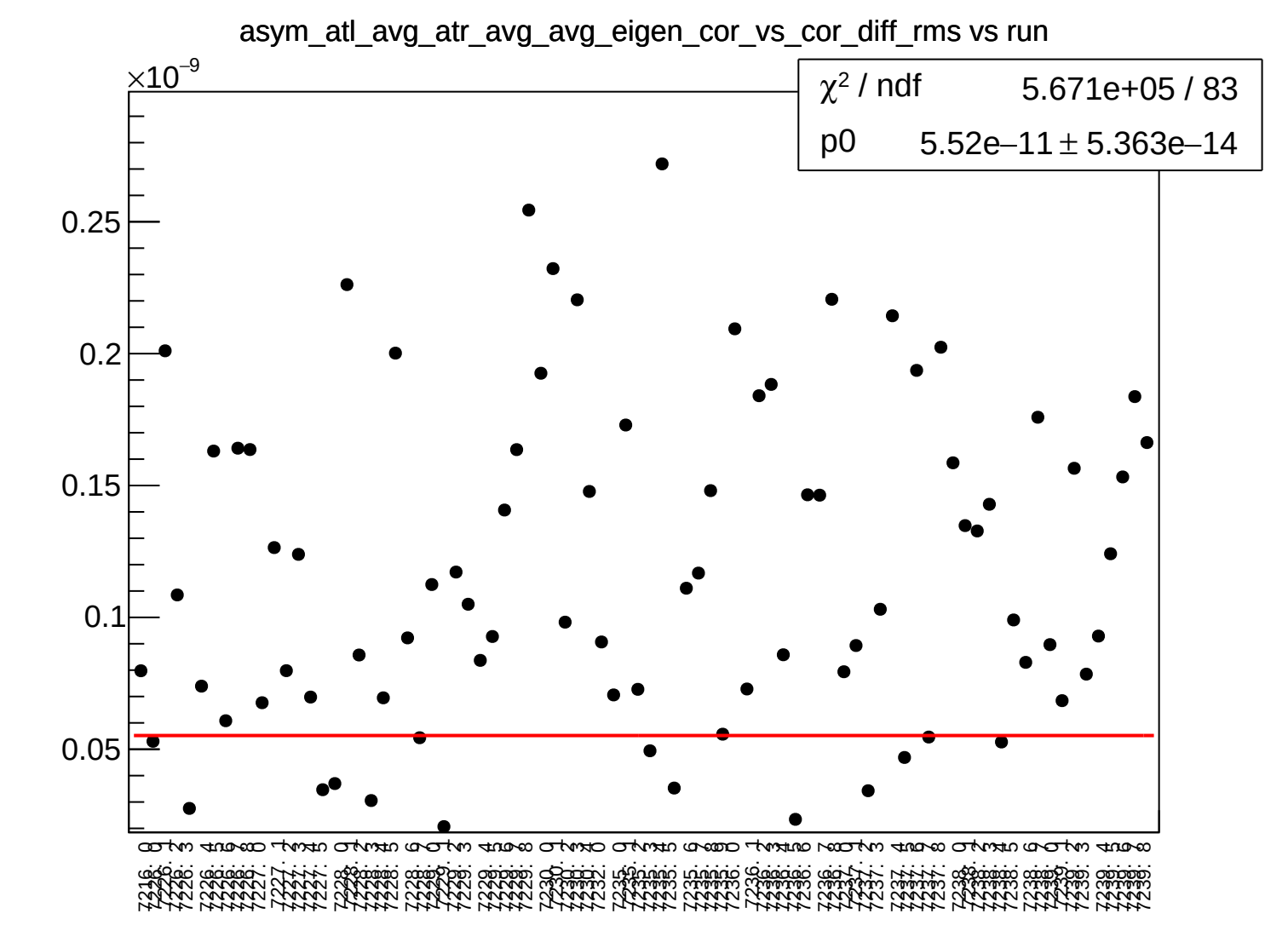

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.879e+04 / 83
p0 225.8 ± 0.1786
320
300
280
260
240
220
200
180
160

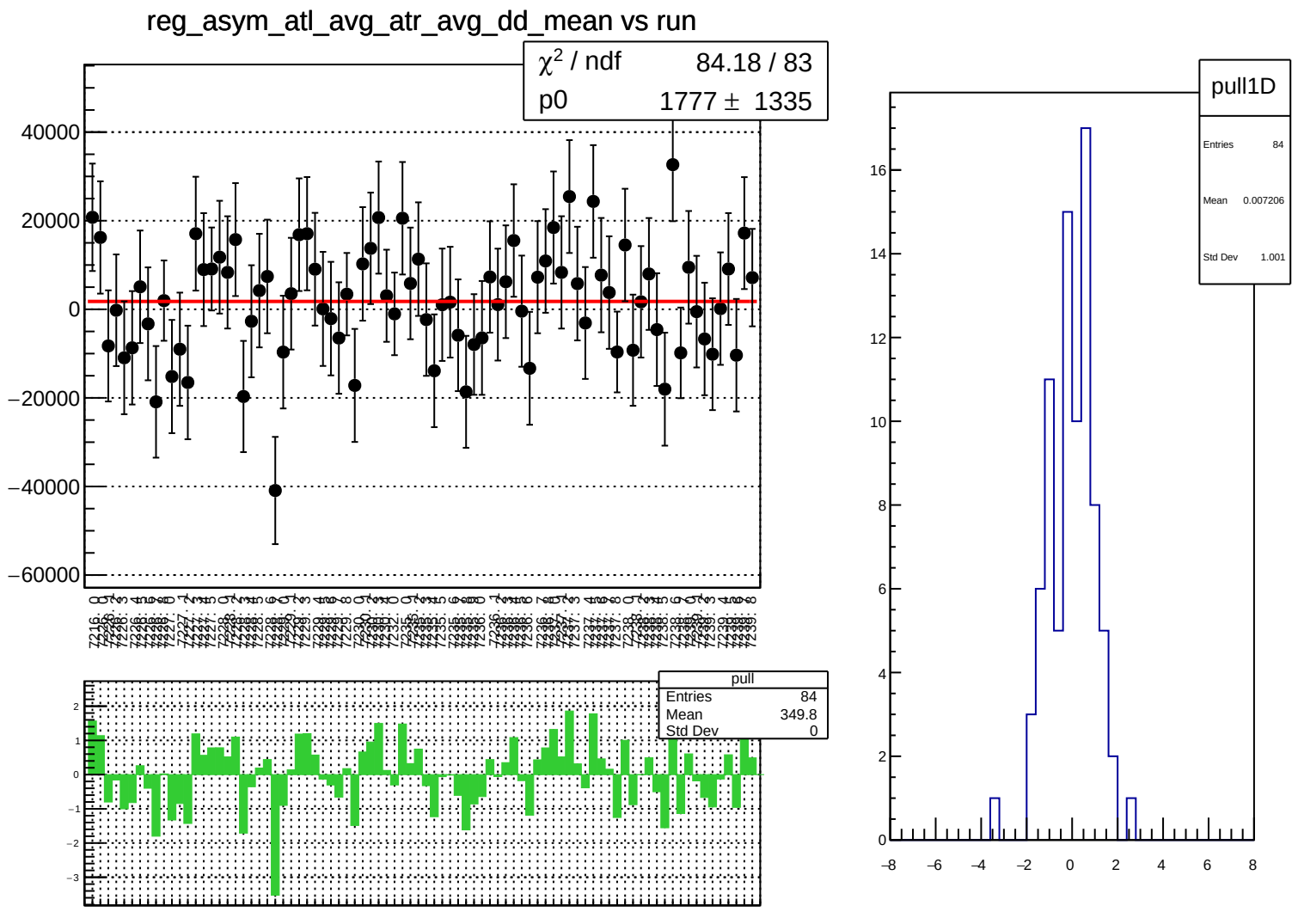

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.7 / 83
p0 0.2944 ± 0.2526
pull
Entries 84
Mean −350
Std Dev 0

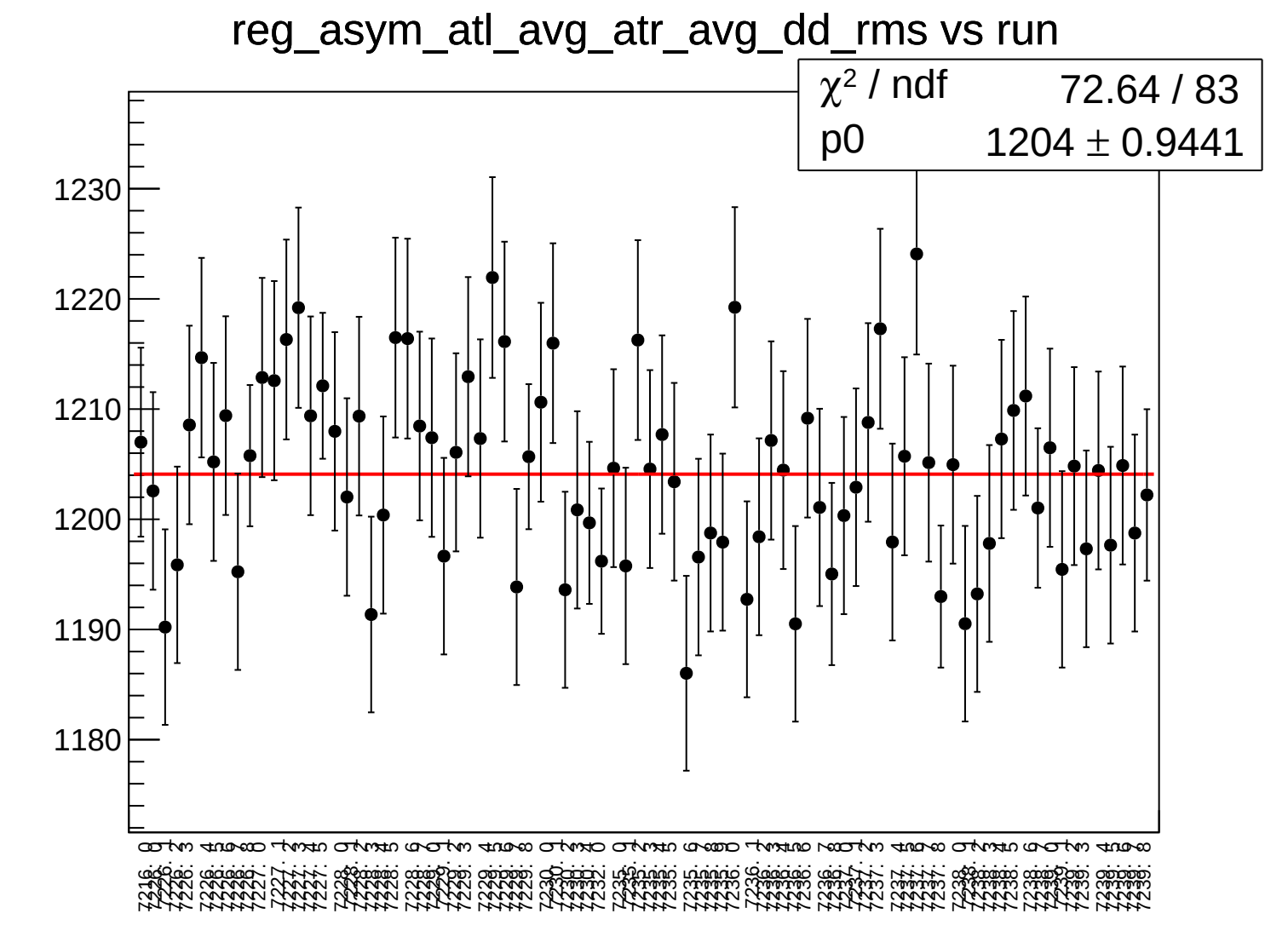

pull1D
Entries 84
Mean −0.005441
Std Dev 1.138

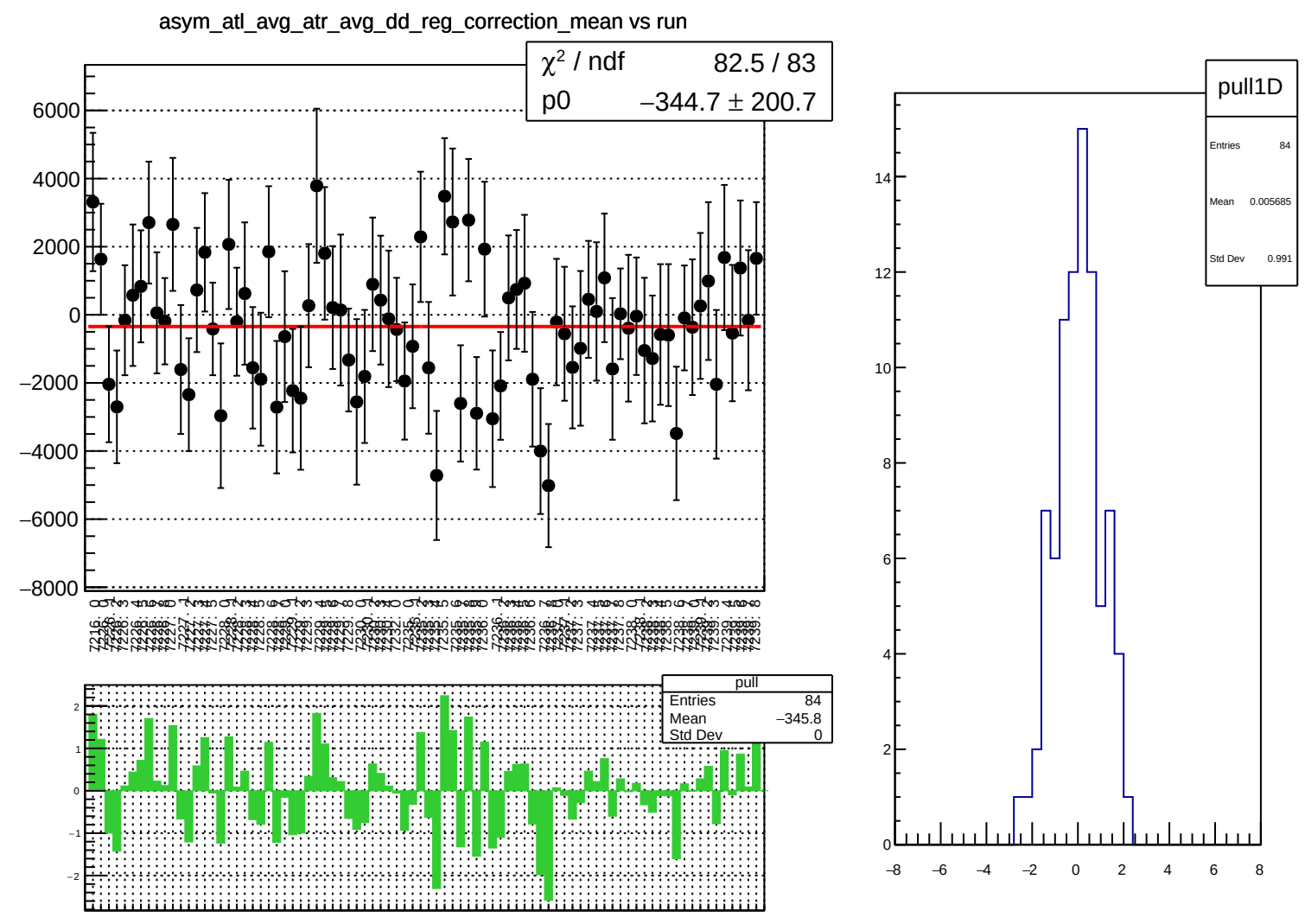

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.879e+04 / 83
p0 225.8 ± 0.1786
320
300
280
260
240
220
200
180
160

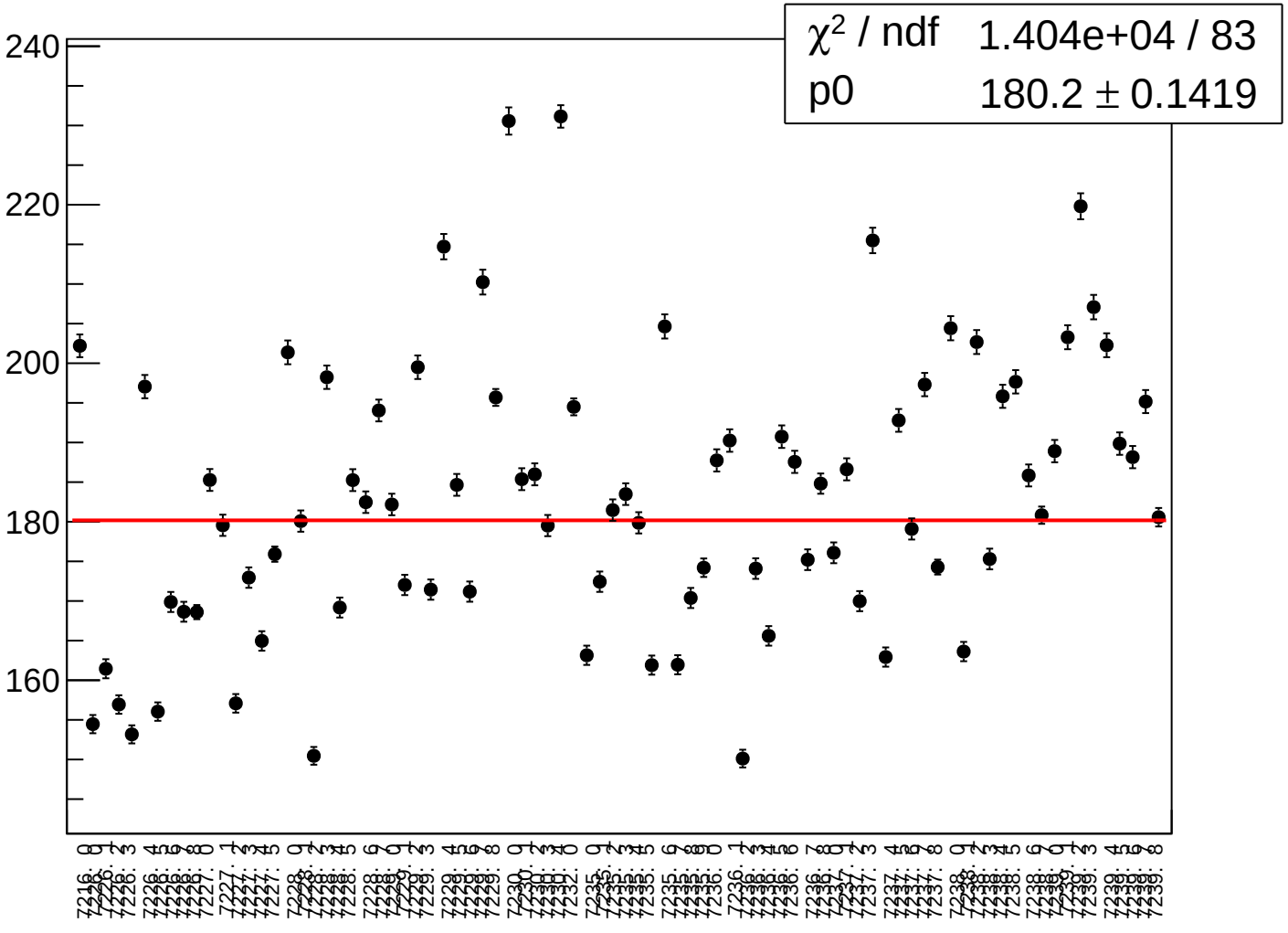

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.41 / 83
p0 3.161e−14 ± 7.584e−14
pull
Entries 84
Mean −50.26
Std Dev 0
pull1D
Entries 84
Mean −0.01451
Std Dev 1.026

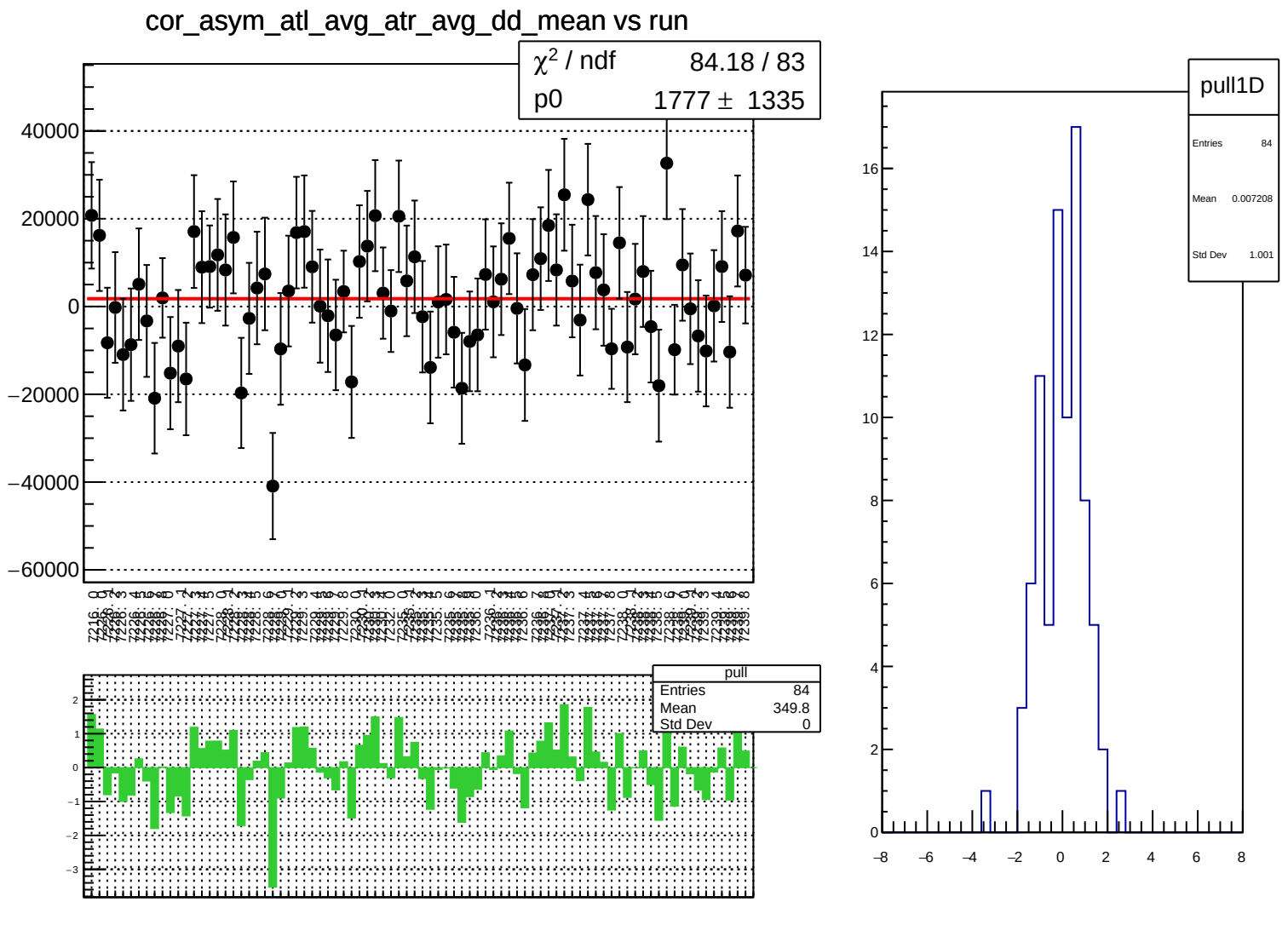

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.671e+05 / 83
p0 5.52e−11 ± 5.363e−14
0.25
0.2
0.15
0.1
0.05

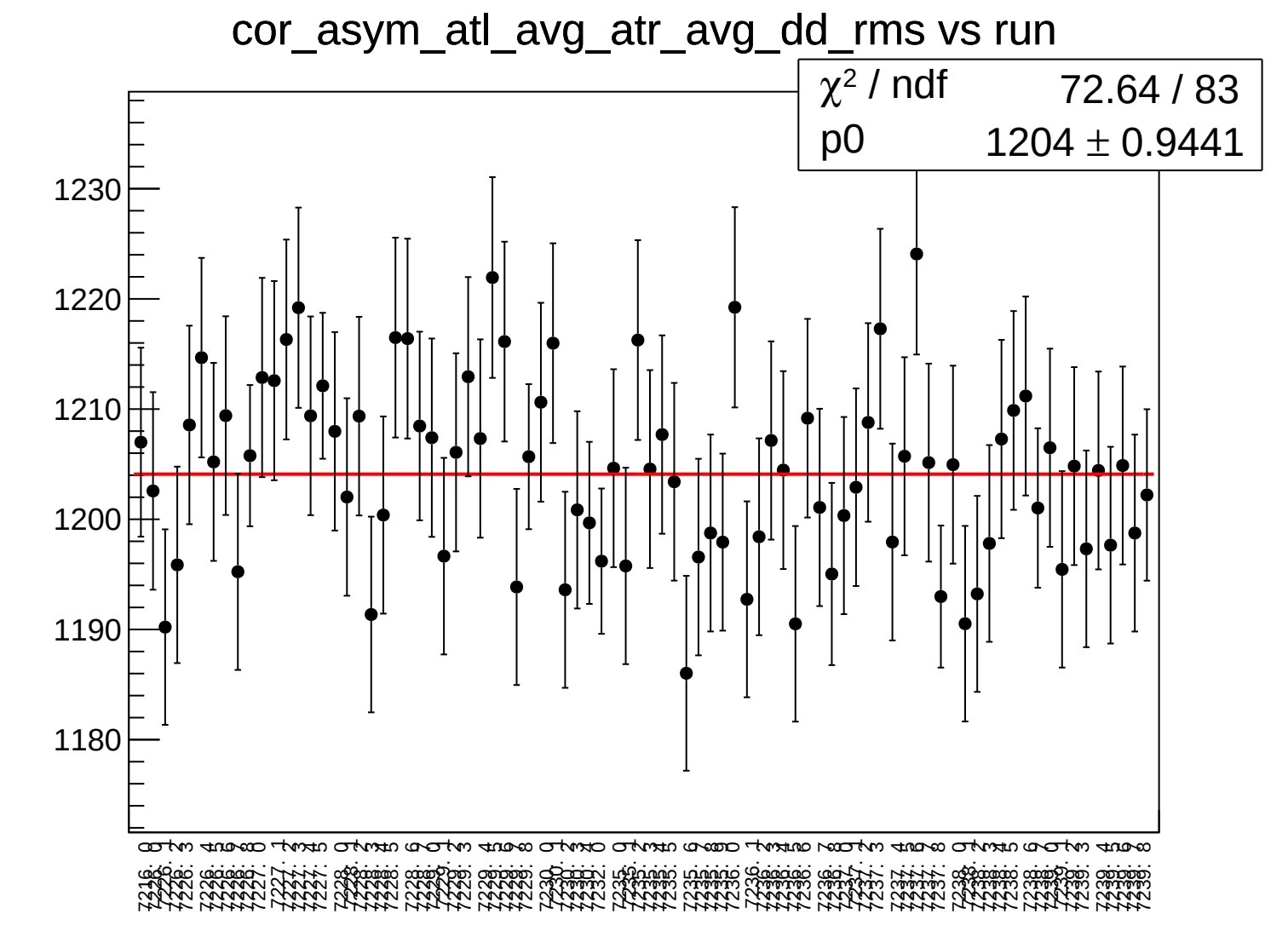

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 84.18 / 83
p0 1777 ± 1335
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 349.8
Std Dev 0
pull1D
Entries 84
Mean 0.007206
Std Dev 1.001

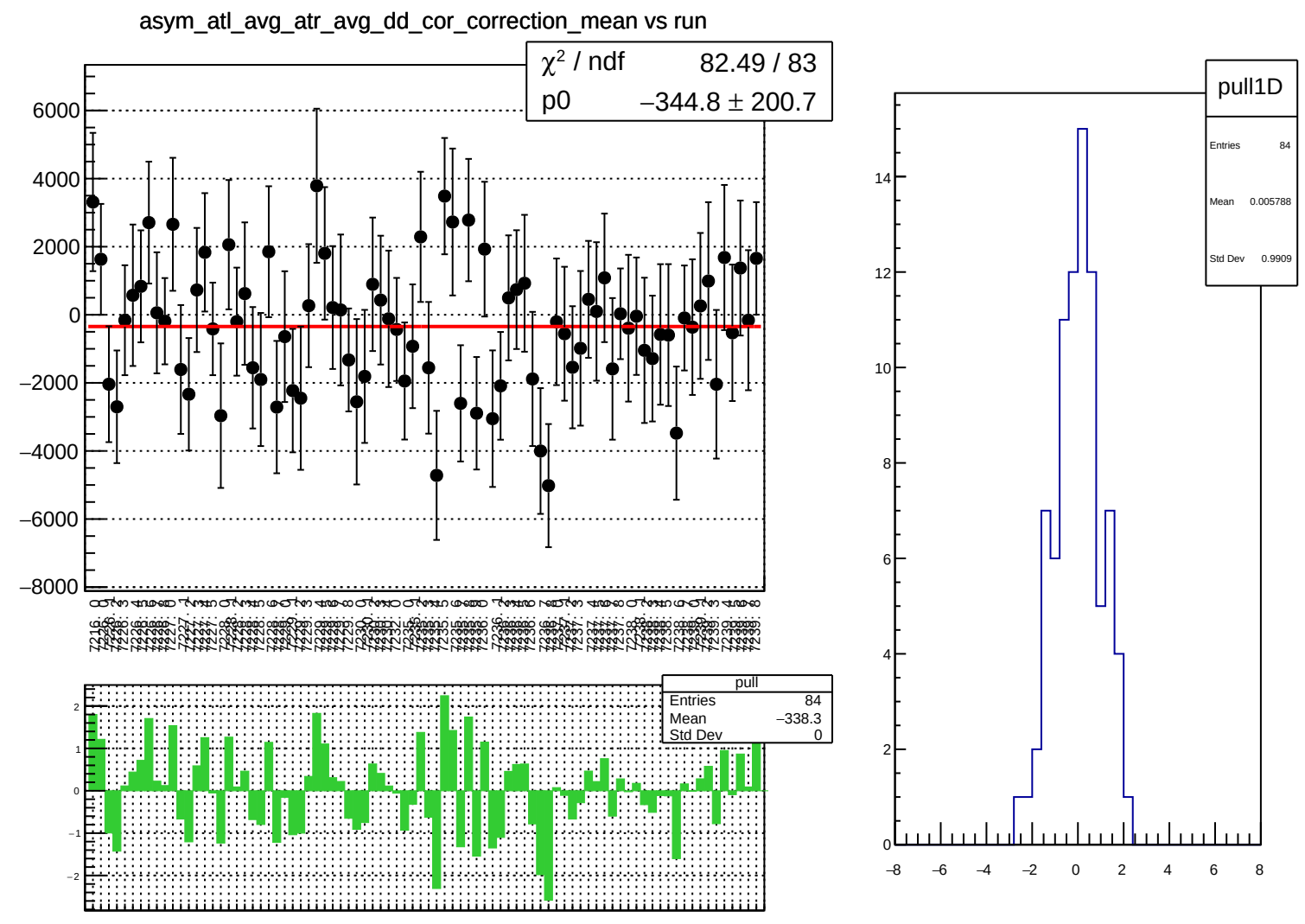

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 72.64 / 83
p0 1204 ± 0.9441
1230
1220
1210
1200
1190
1180

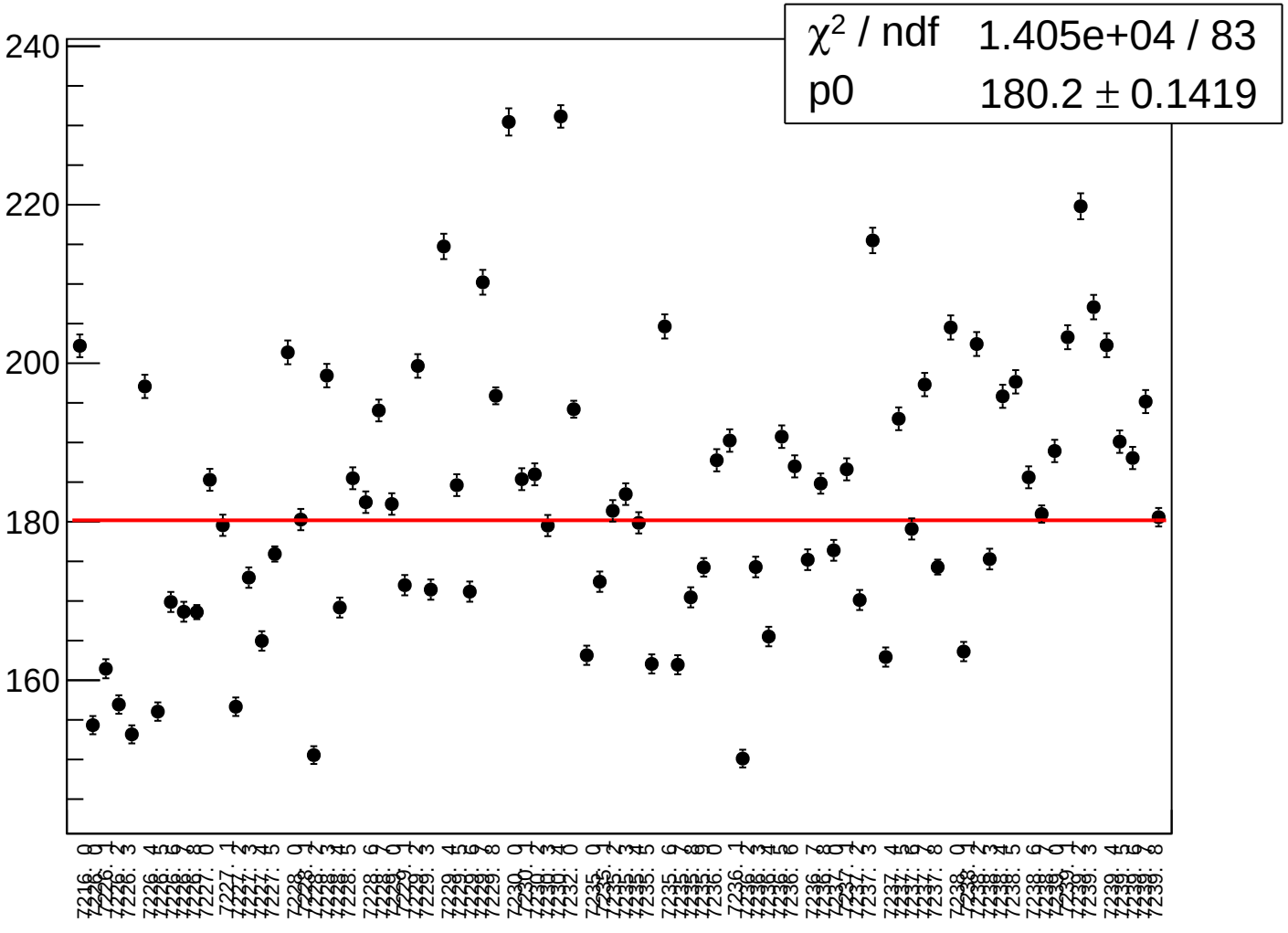

asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 82.5 / 83
p0 −344.7 ± 200.7
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 84
Mean −345.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.005685
Std Dev 0.991
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

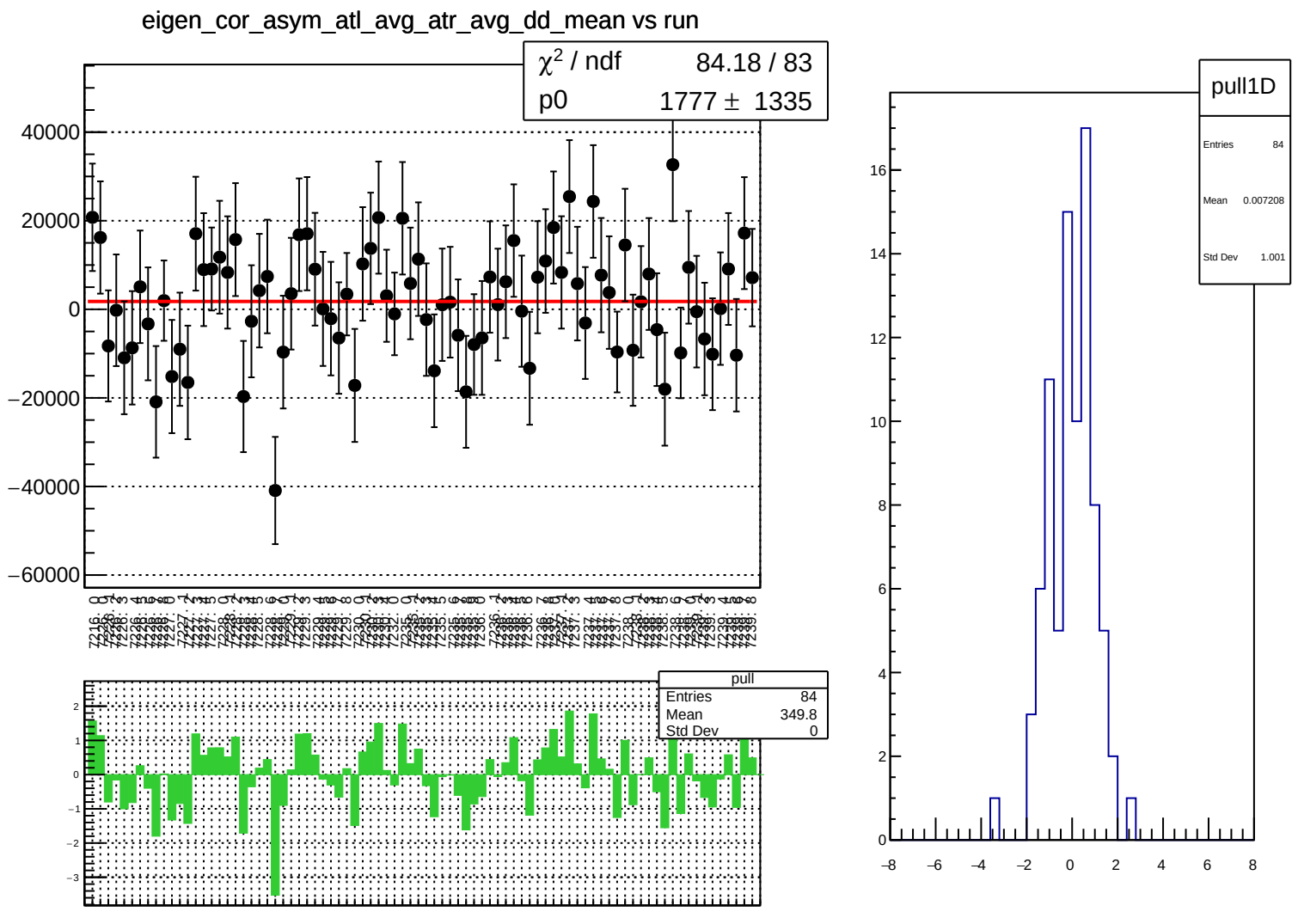

asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.404e+04 / 83
p0 180.2 ± 0.1419
240
220
200
180
160

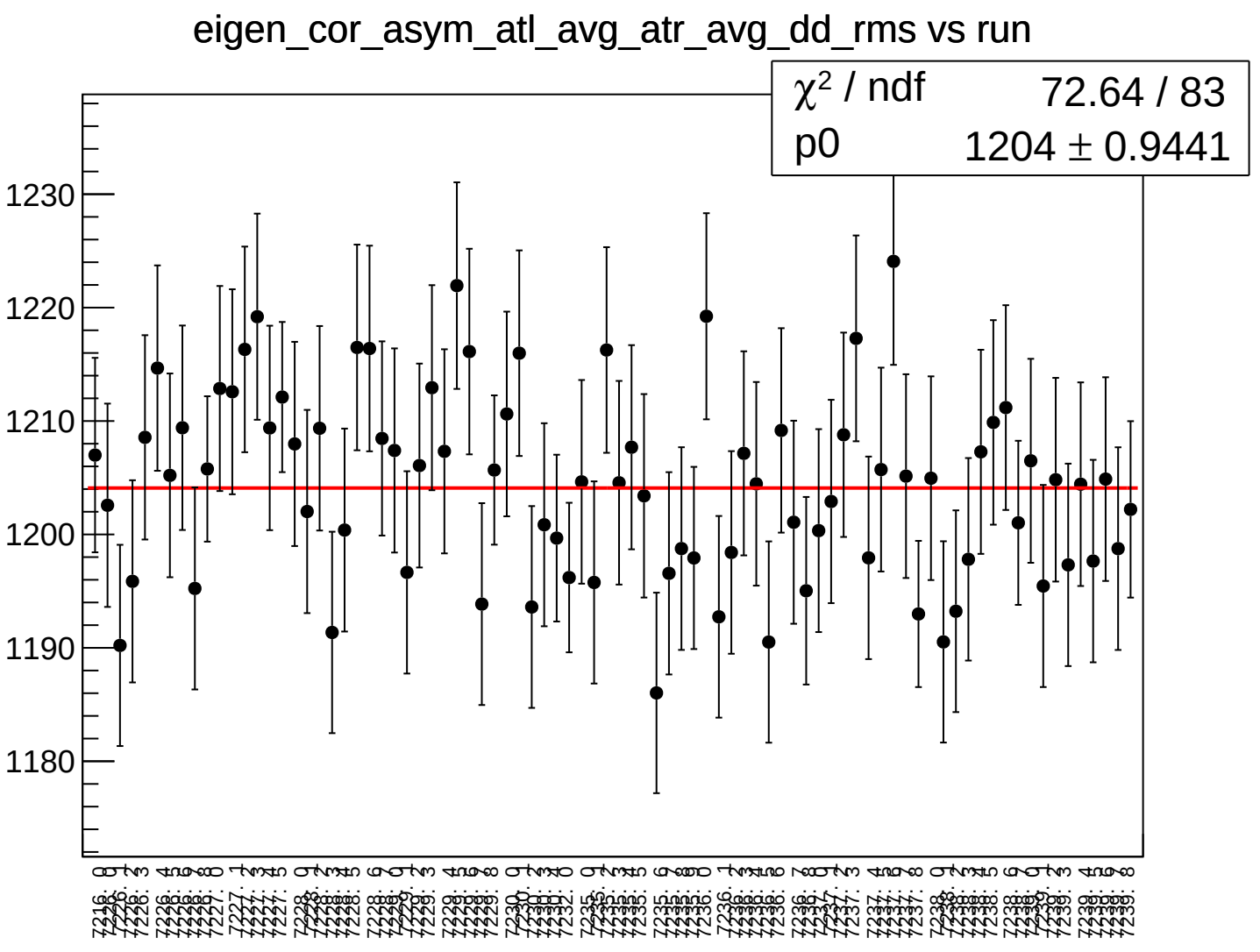

cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 84.18 / 83
p0 1777 ± 1335
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 349.8
Std Dev 0
pull1D
Entries 84
Mean 0.007208
Std Dev 1.001

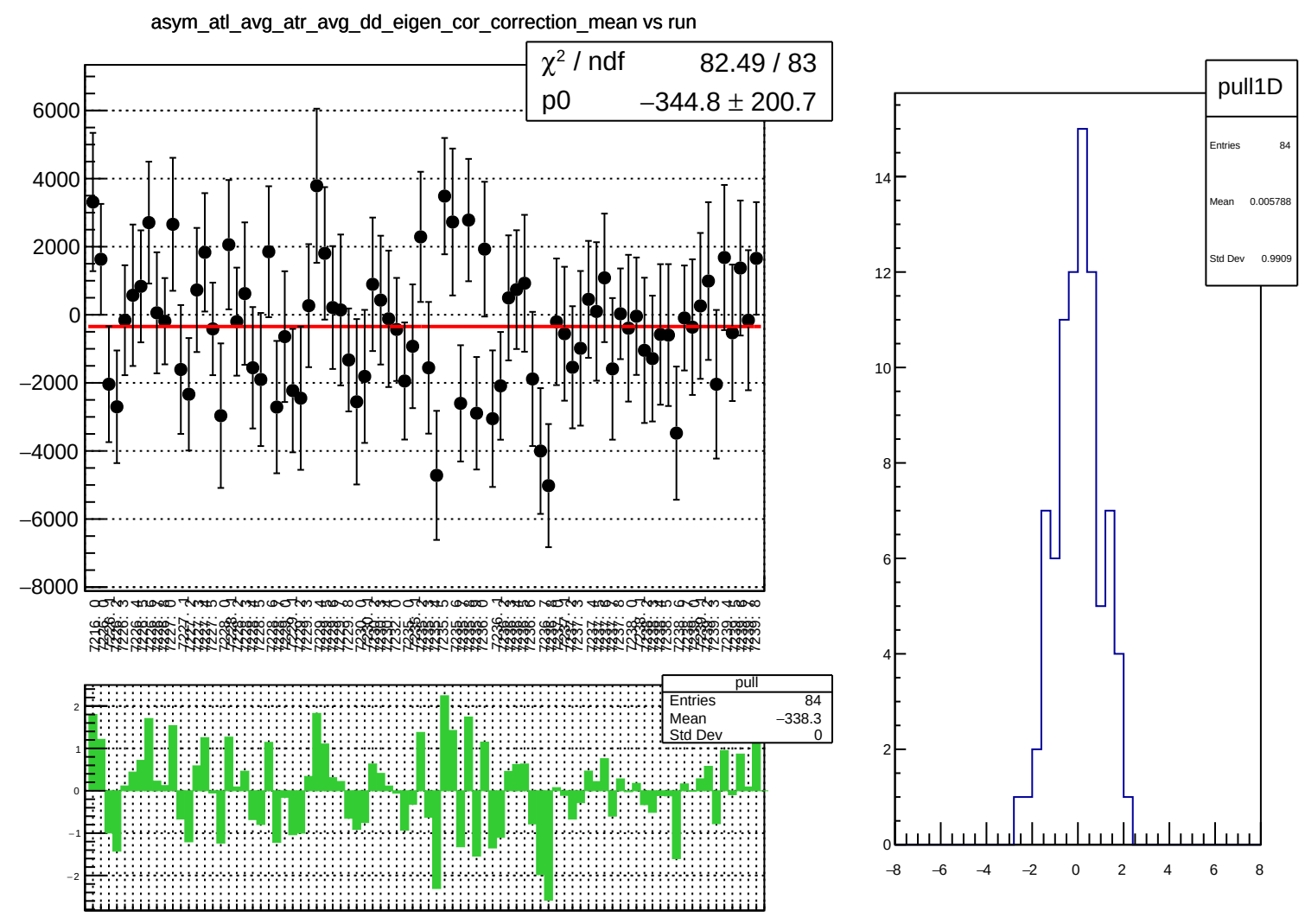

cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 72.64 / 83
p0 1204 ± 0.9441
1230
1220
1210
1200
1190
1180

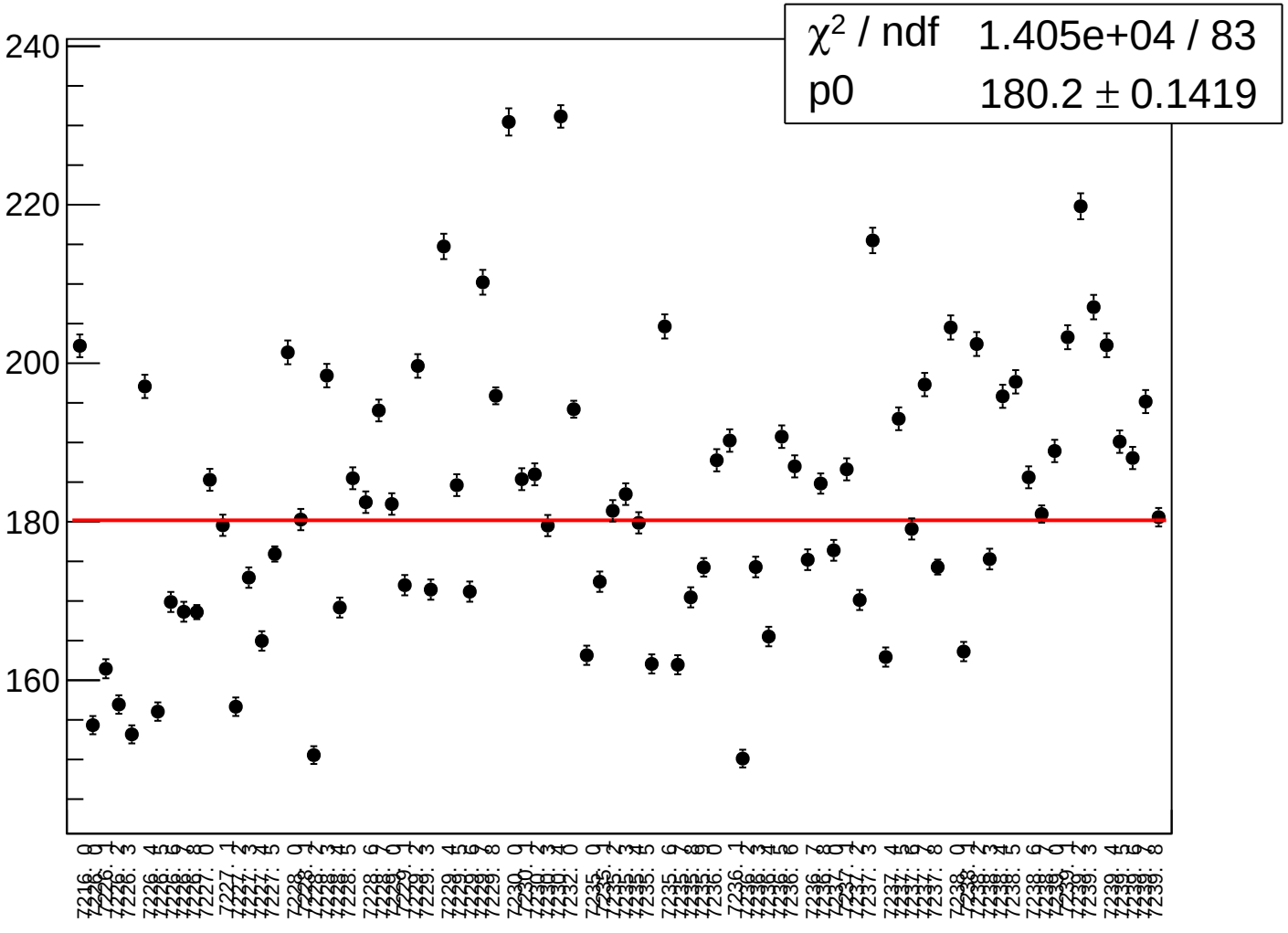

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 82.49 / 83
p0 −344.8 ± 200.7
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 84
Mean −338.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.005788
Std Dev 0.9909
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

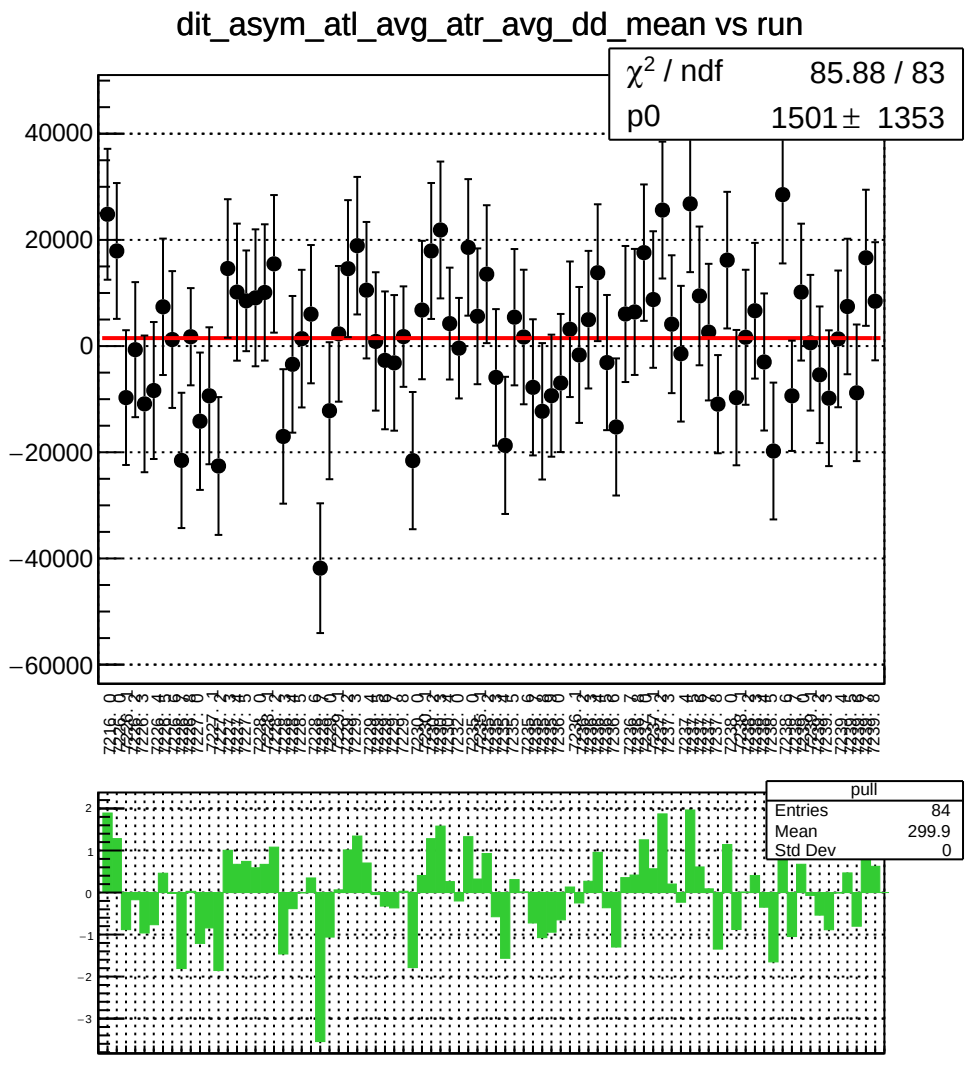

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.405e+04 / 83
p0 180.2 ± 0.1419
240
220
200
180
160

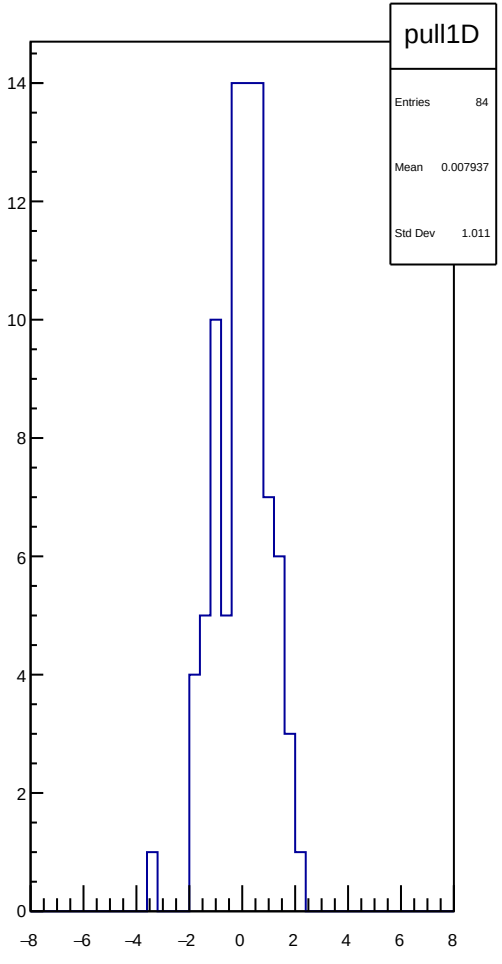

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 84.18 / 83
p0 1777 ± 1335
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 349.8
Std Dev 0
pull1D
Entries 84
Mean 0.007208
Std Dev 1.001

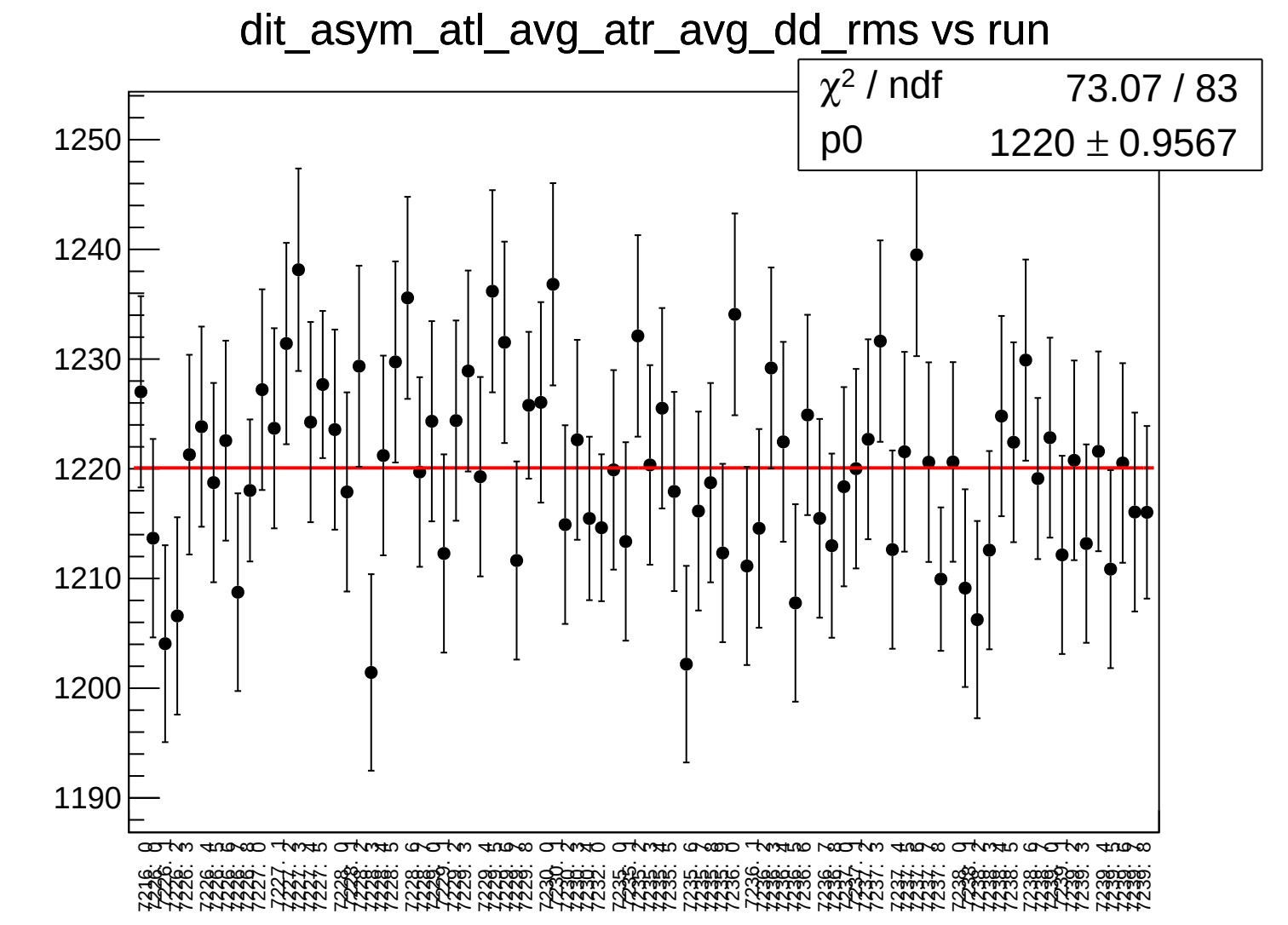

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 72.64 / 83
p0 1204 ± 0.9441
1230
1220
1210
1200
1190
1180

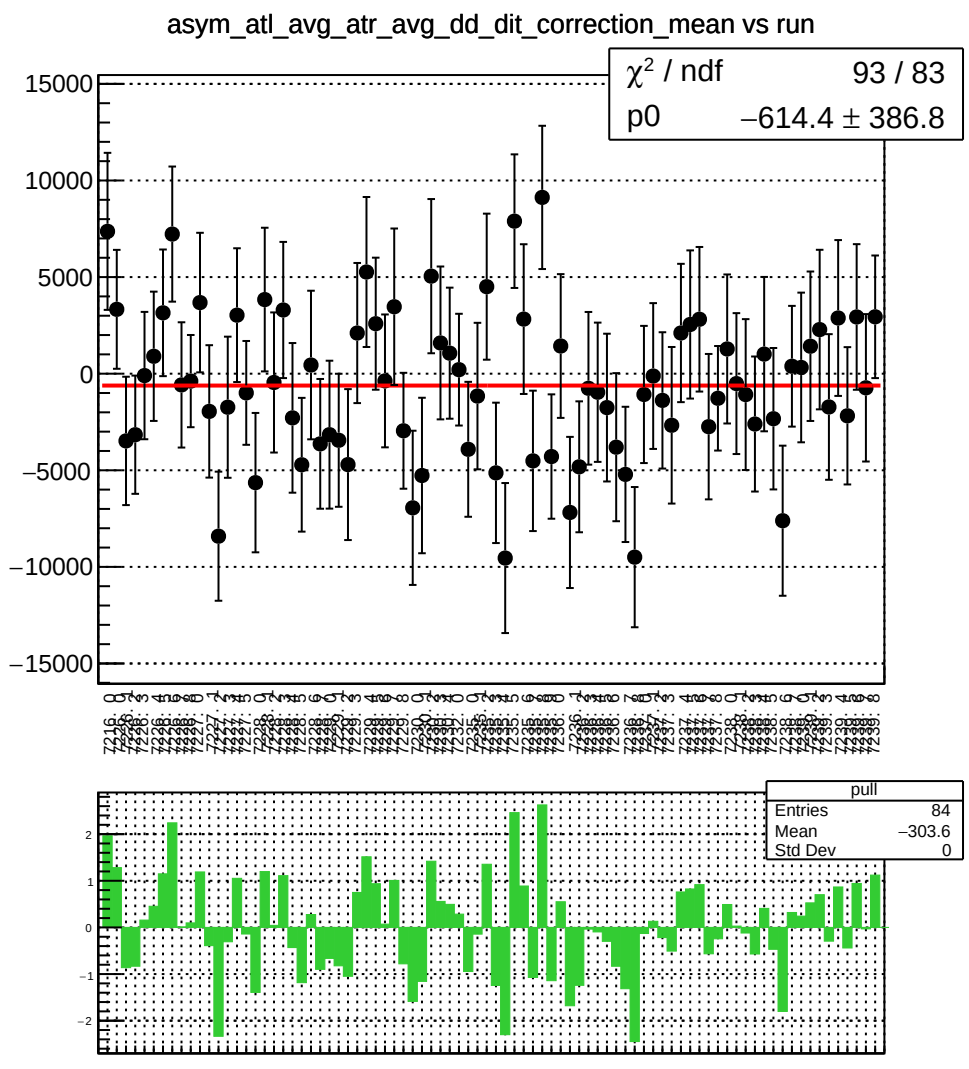

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 82.49 / 83
p0 −344.8 ± 200.7
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 84
Mean −338.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.005788
Std Dev 0.9909
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

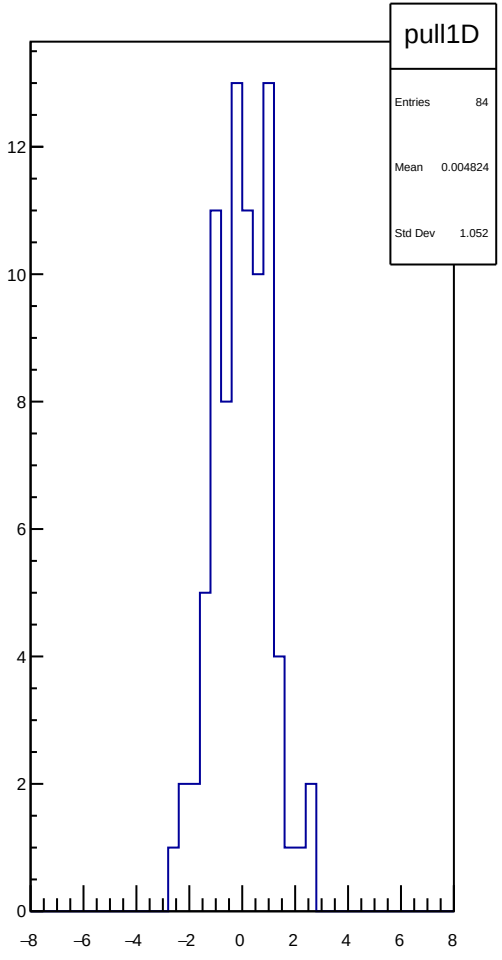

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.405e+04 / 83
p0 180.2 ± 0.1419
240
220
200
180
160

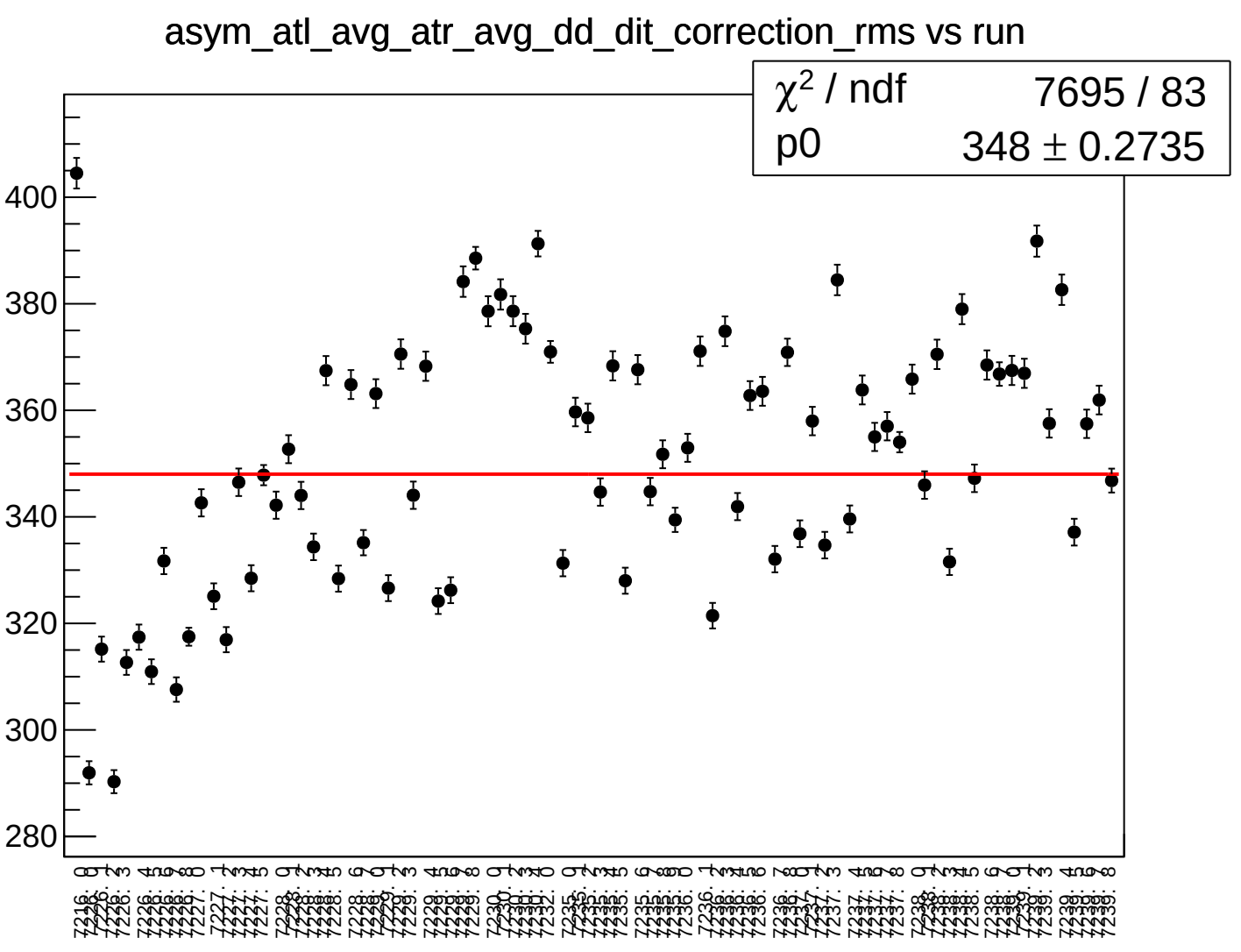

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 85.88 / 83
p0 1501 ± 1353
pull
Entries 84
Mean 299.9
Std Dev 0

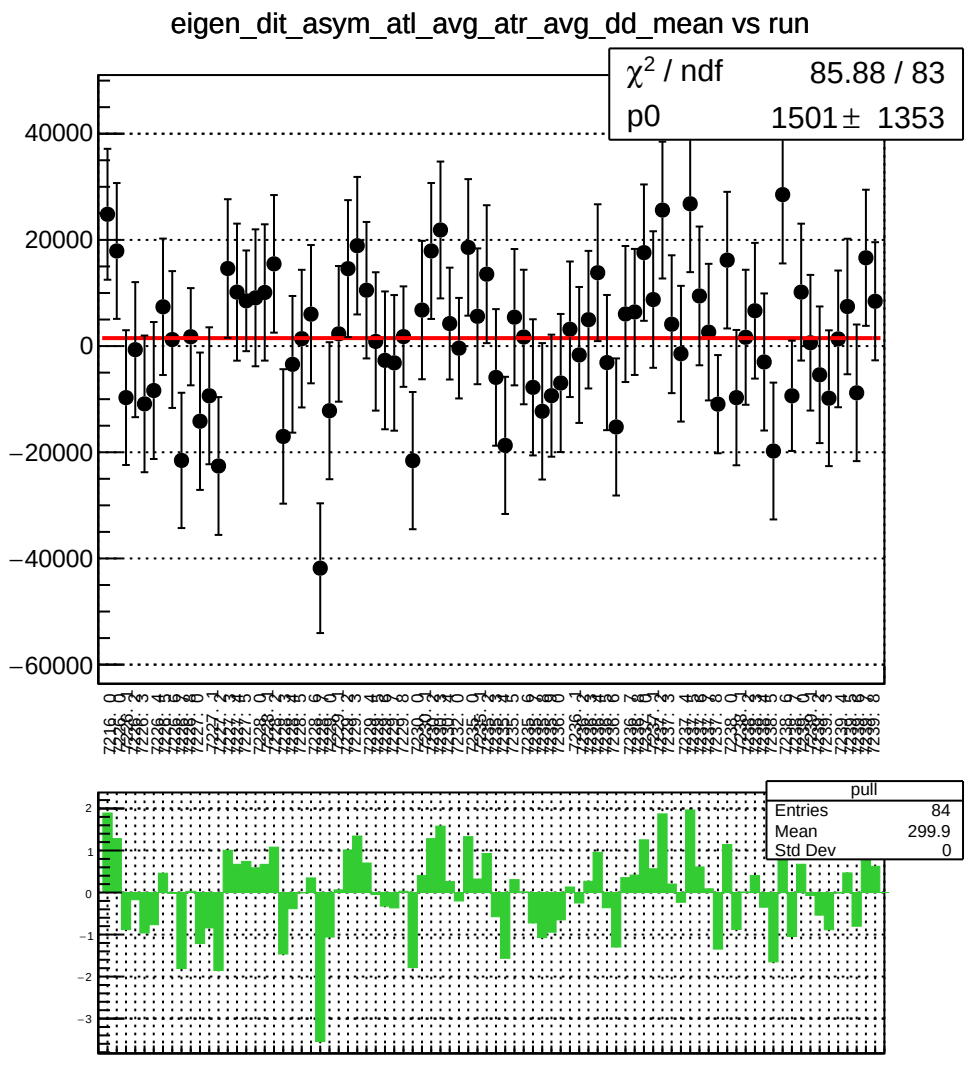

pull1D
Entries 84
Mean 0.007937
Std Dev 1.011

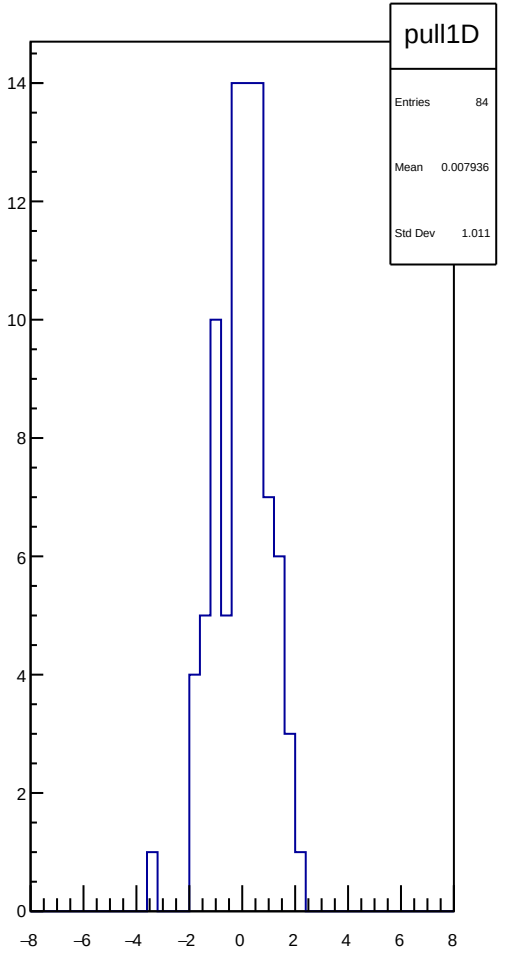

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 73.07 / 83
p0 1220 ± 0.9567
1250
1240
1230
1220
1210
1200
1190

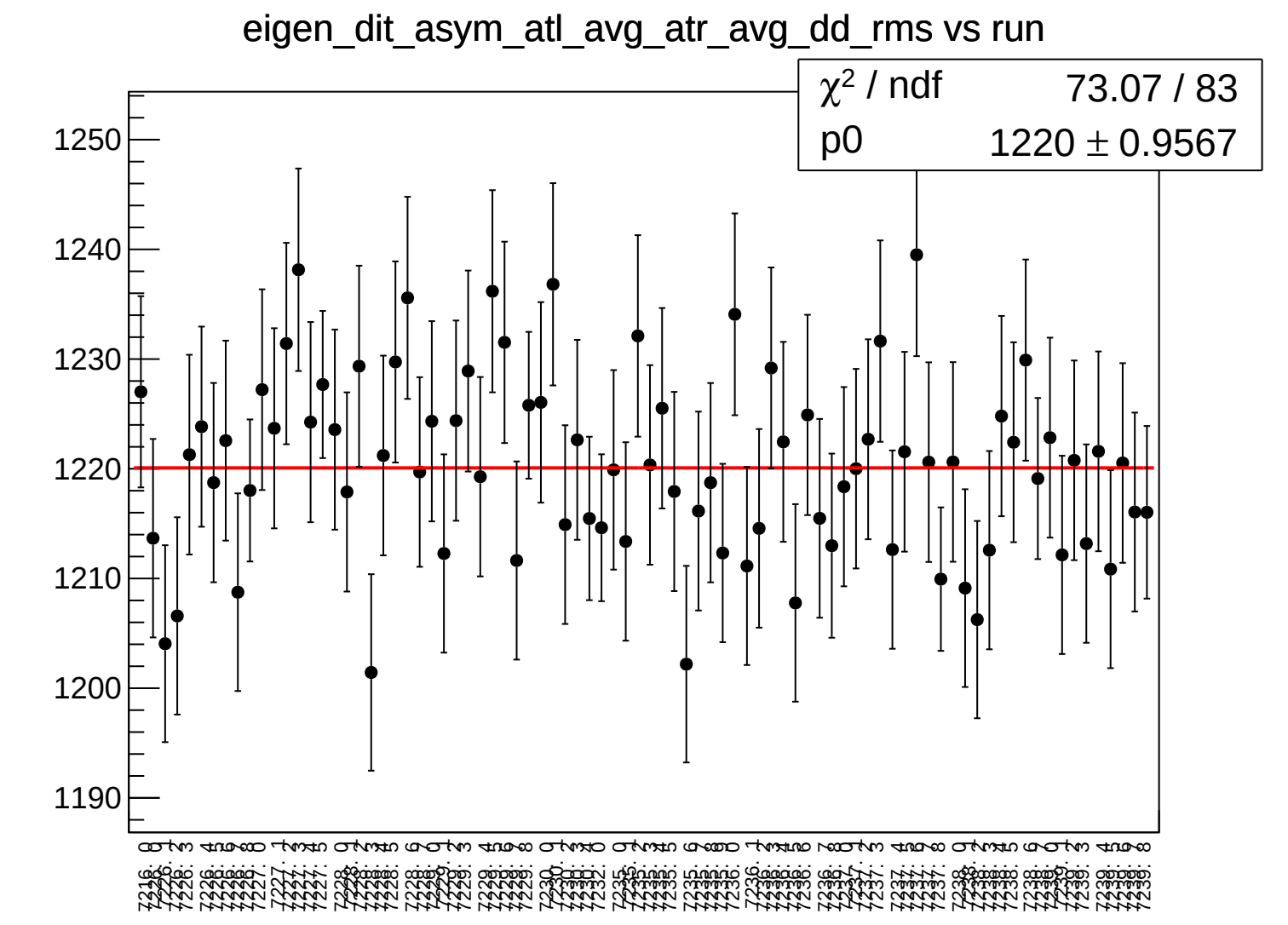

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 93 / 83
p0 −614.4 ± 386.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −303.6
Std Dev 0
2
1
0
−1
−2

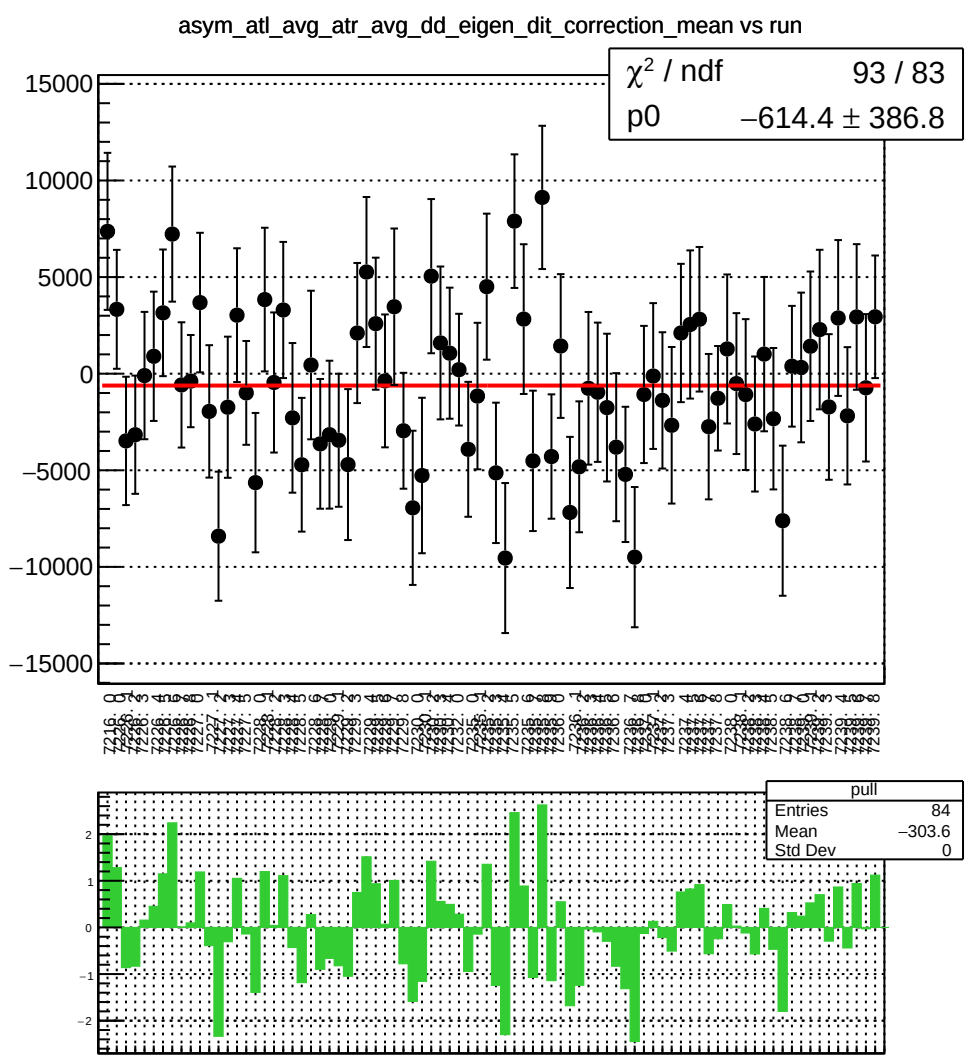

pull1D
Entries 84
Mean 0.004824
Std Dev 1.052
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

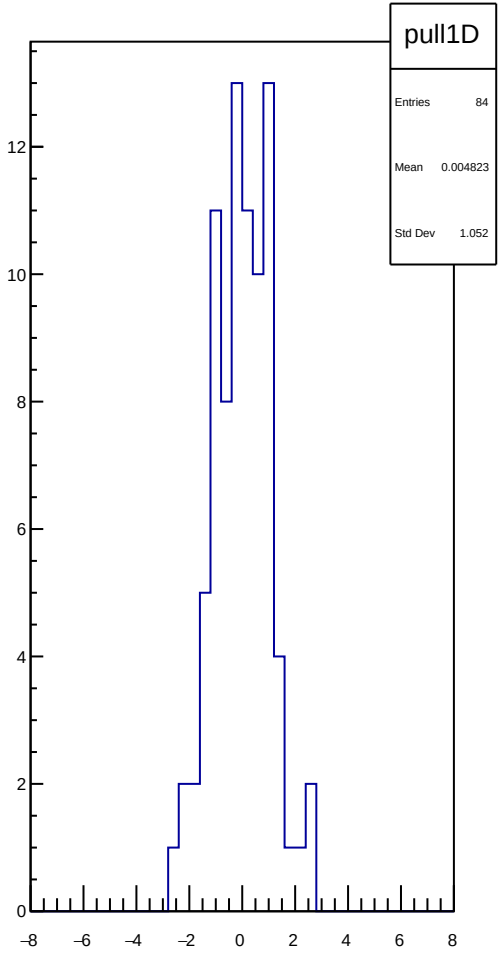

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 7695 / 83
p0 348 ± 0.2735
400
380
360
340
320
300
280

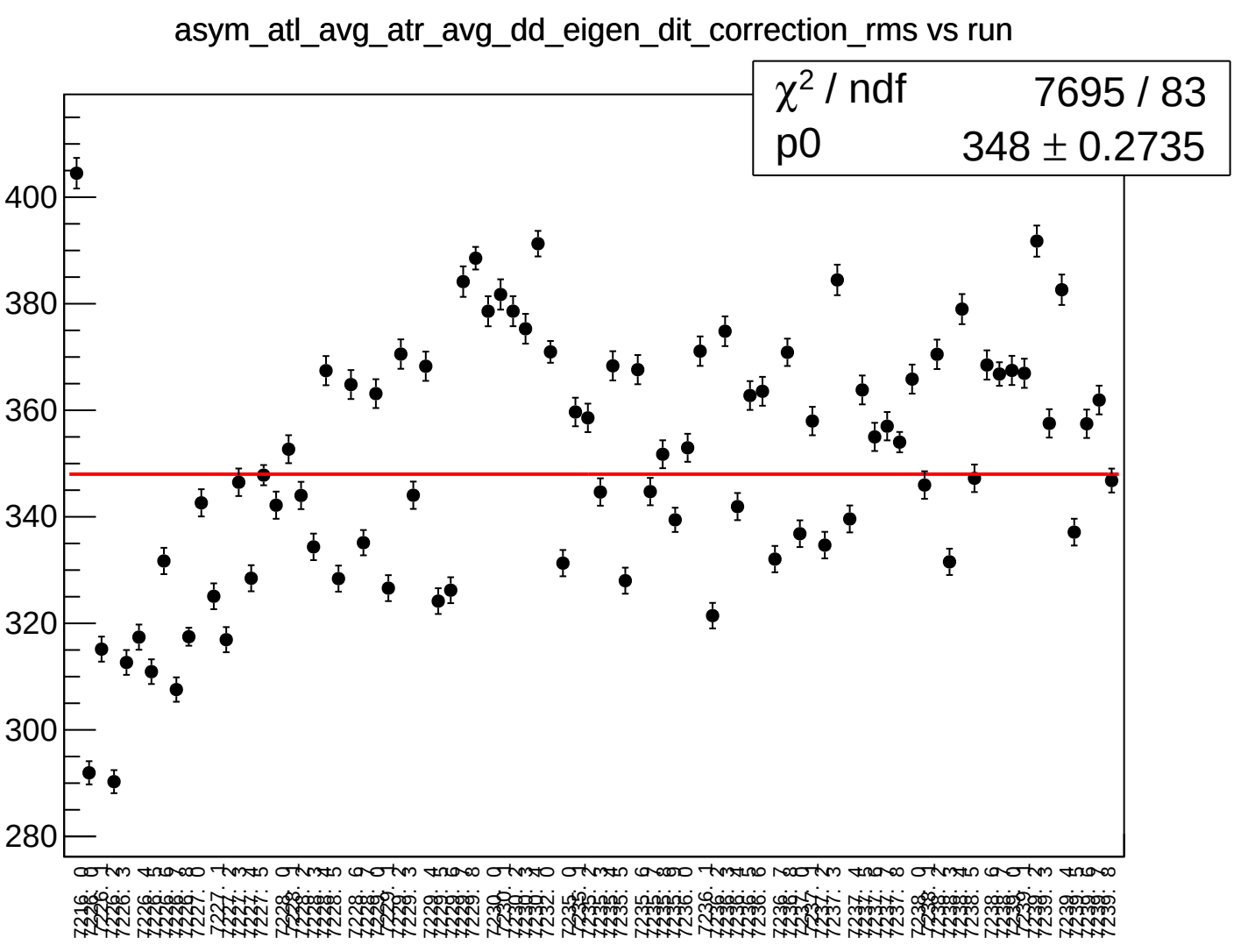

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 85.88 / 83
p0 1501 ± 1353
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 299.9
Std Dev 0
2
1
0
−1
−2
−3

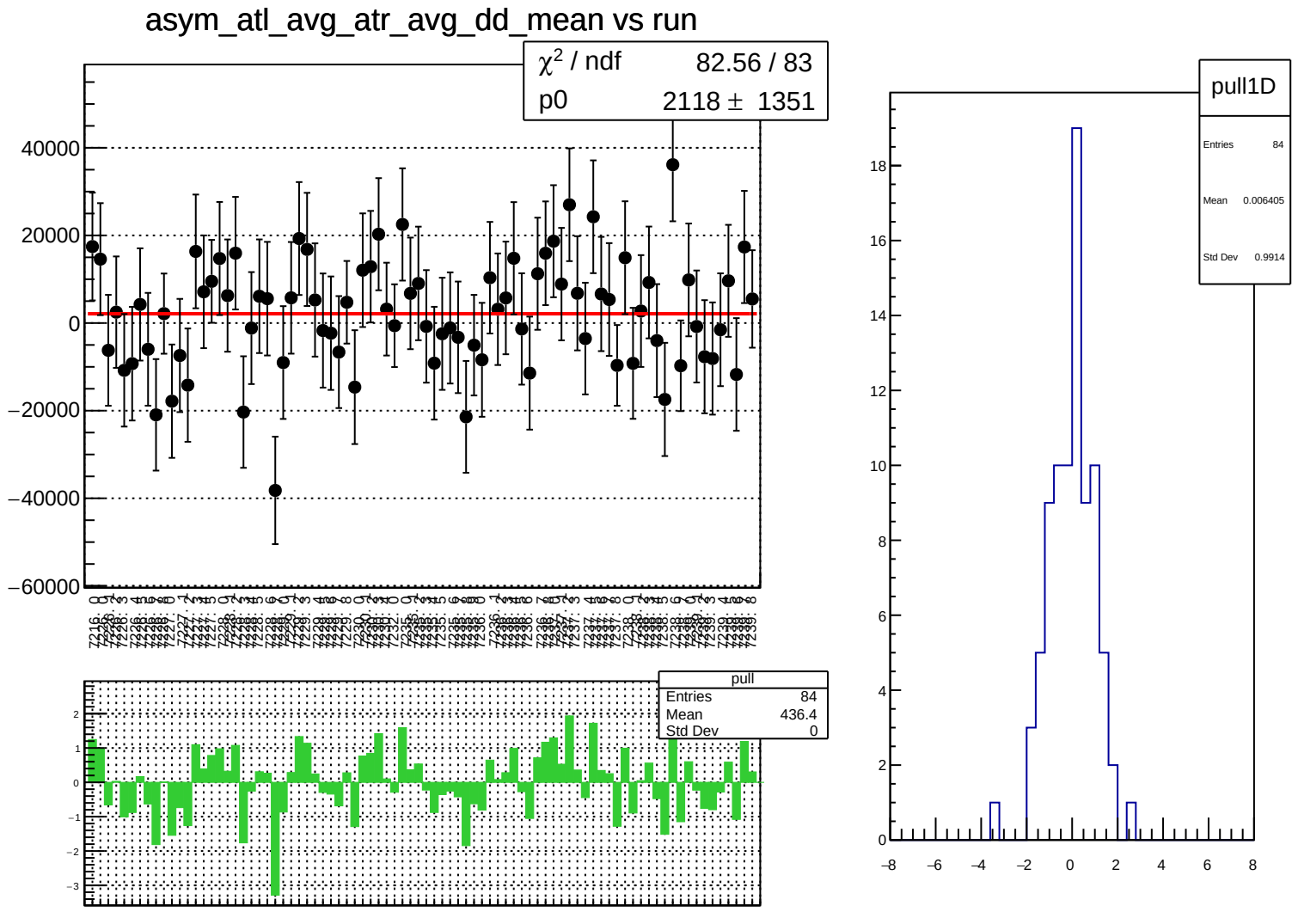

pull1D
Entries 84
Mean 0.007936
Std Dev 1.011
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

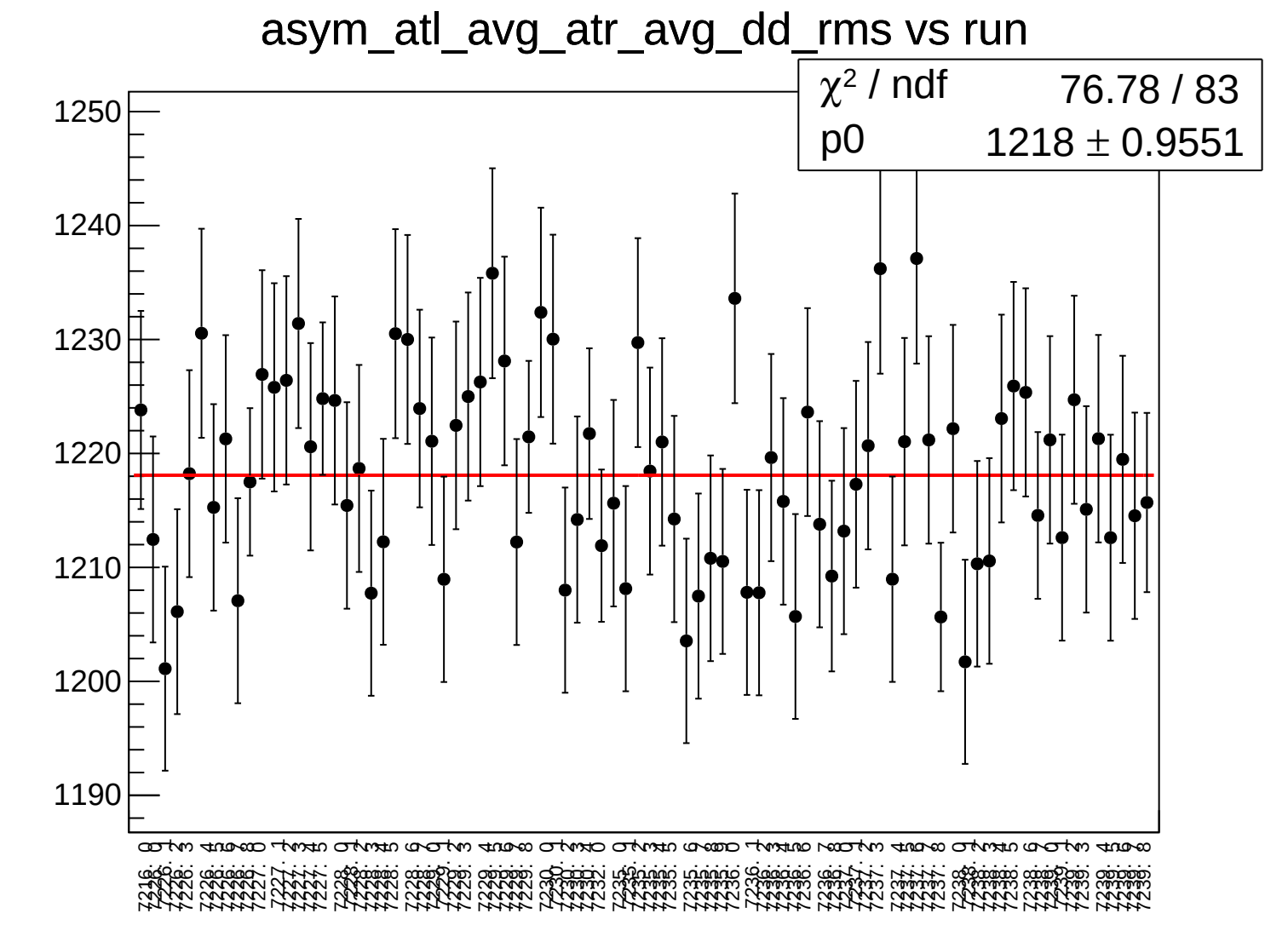

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 73.07 / 83
p0 1220 ± 0.9567
1250
1240
1230
1220
1210
1200
1190

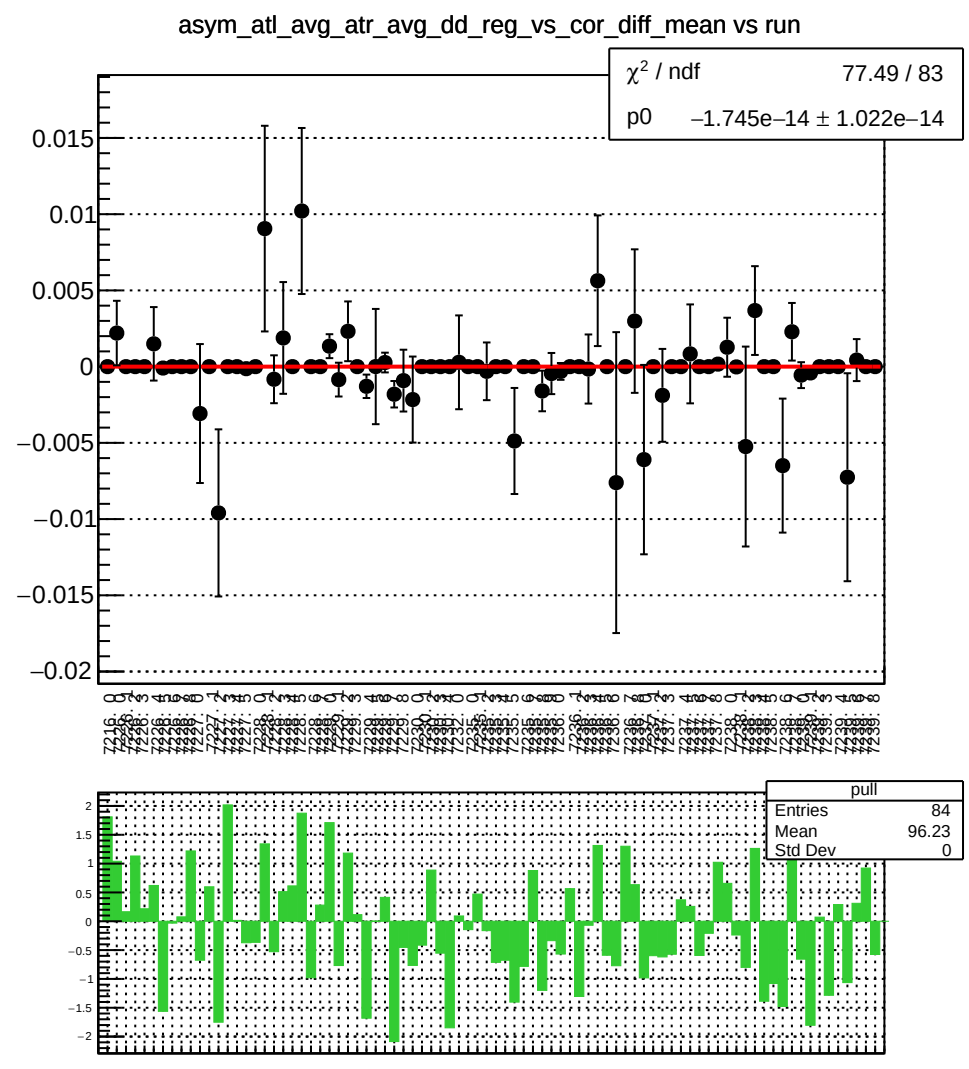

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 93 / 83
p0 −614.4 ± 386.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −303.6
Std Dev 0
2
1
0
−1
−2

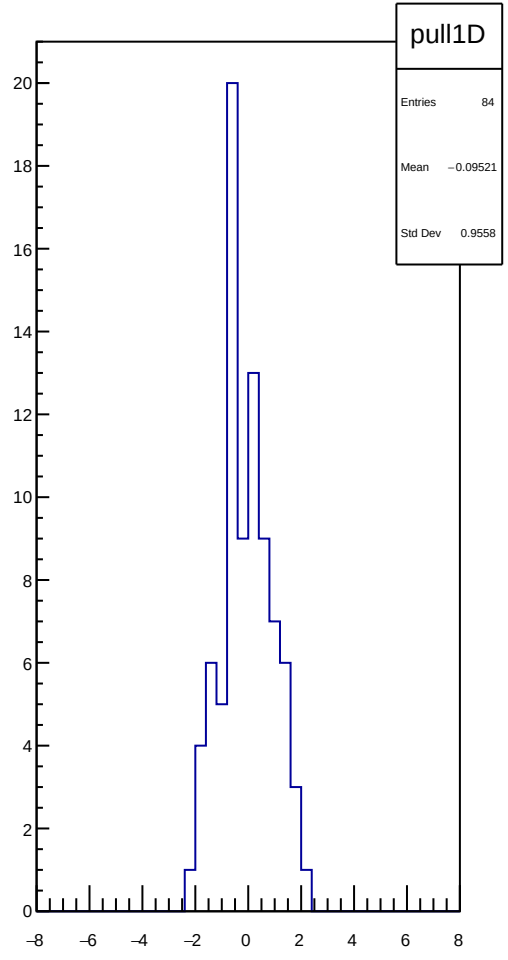

pull1D
Entries 84
Mean 0.004823
Std Dev 1.052
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

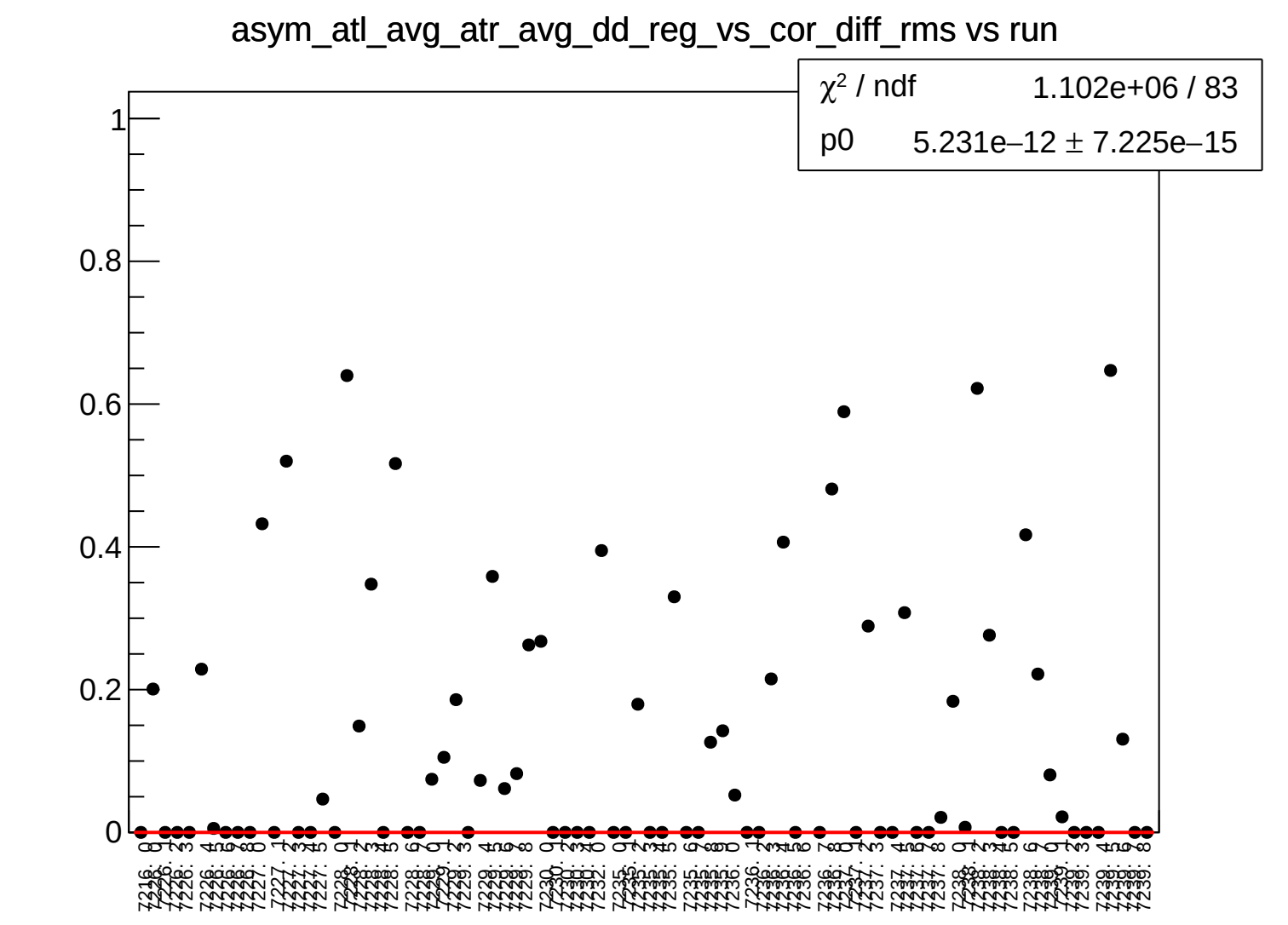

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 7695 / 83
p0 348 ± 0.2735
400
380
360
340
320
300
280

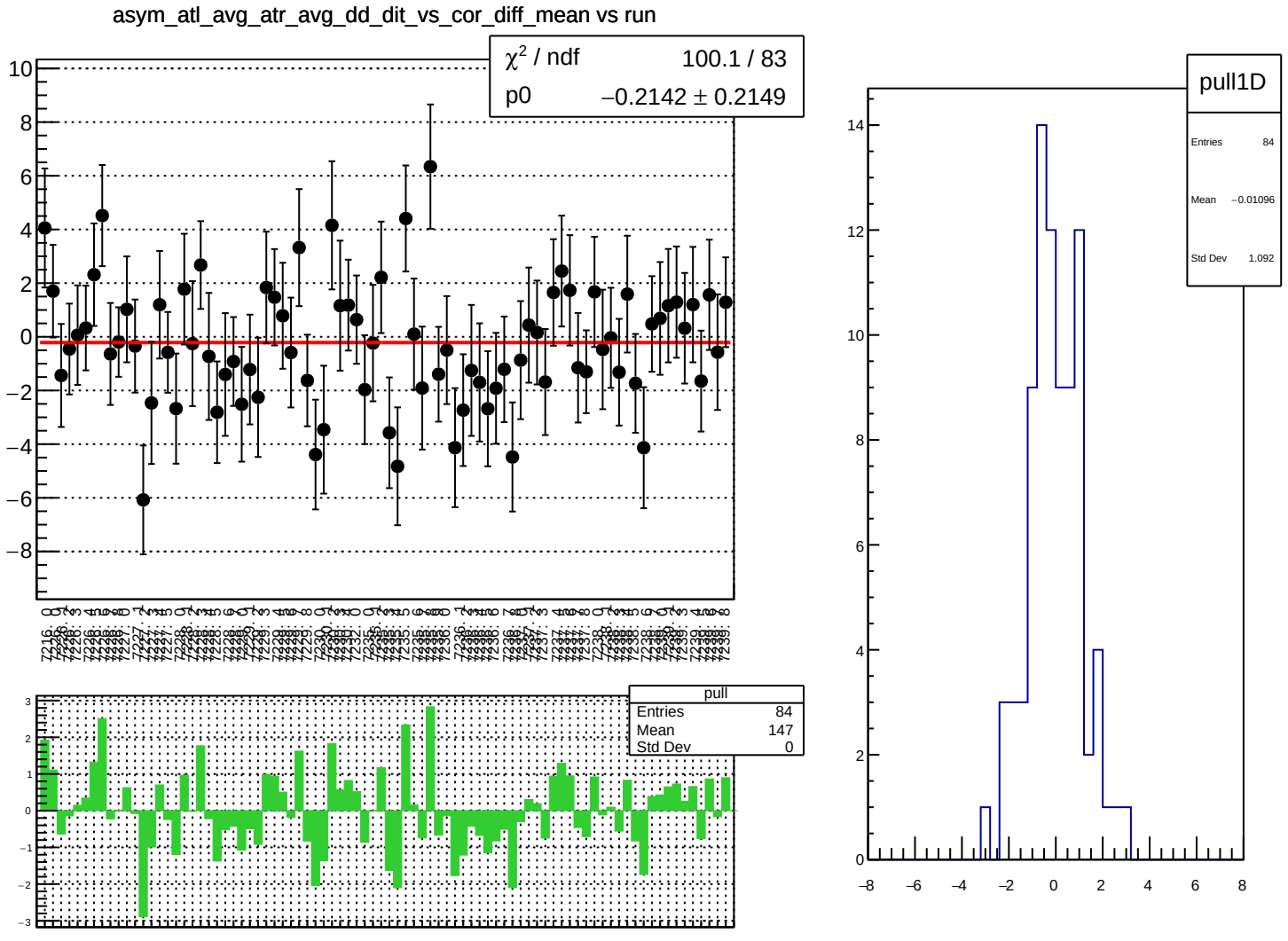

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 82.56 / 83
p0 2118 ± 1351
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 436.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean 0.006405
Std Dev 0.9914
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

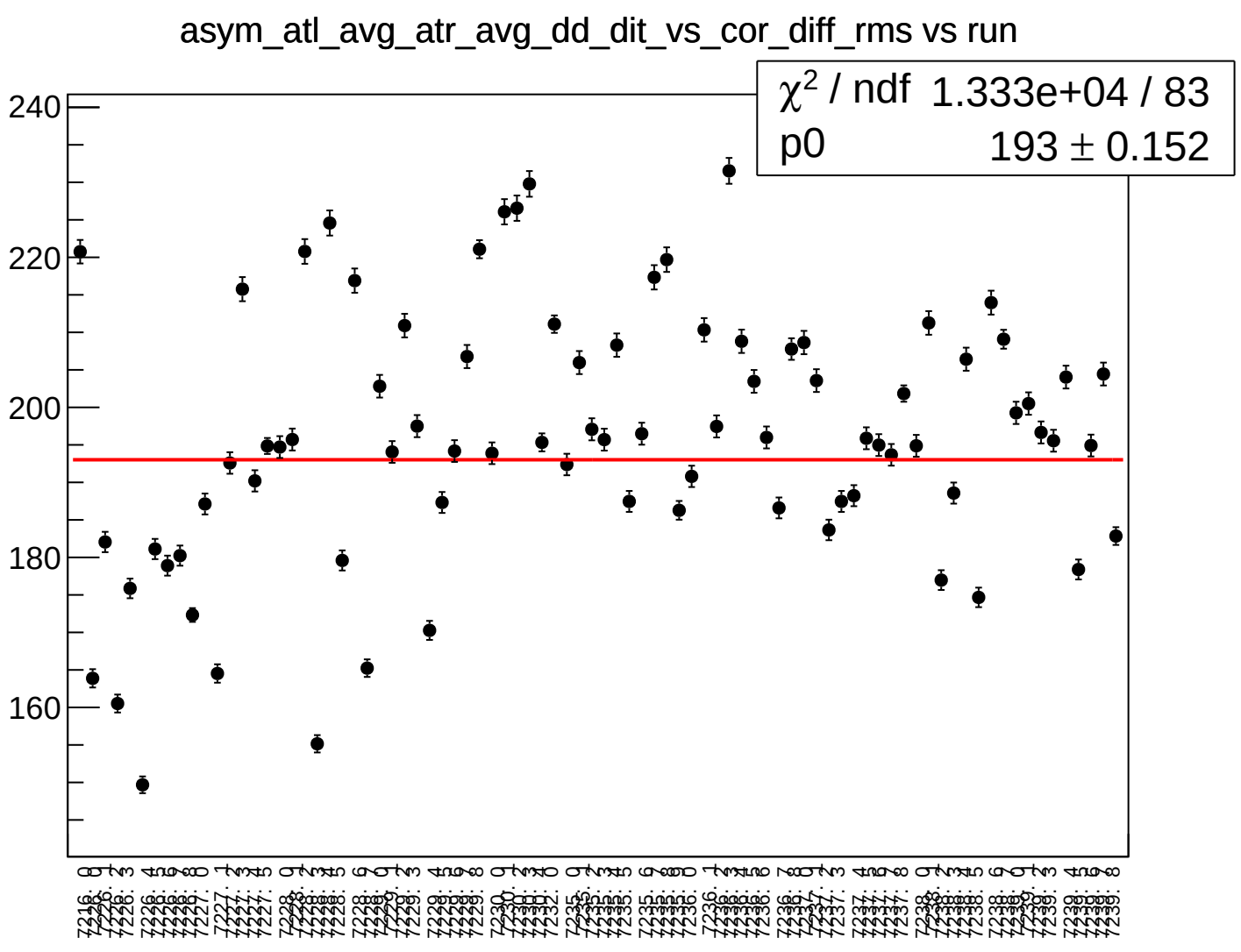

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 76.78 / 83
p0 1218 ± 0.9551
1250
1240
1230
1220
1210
1200
1190

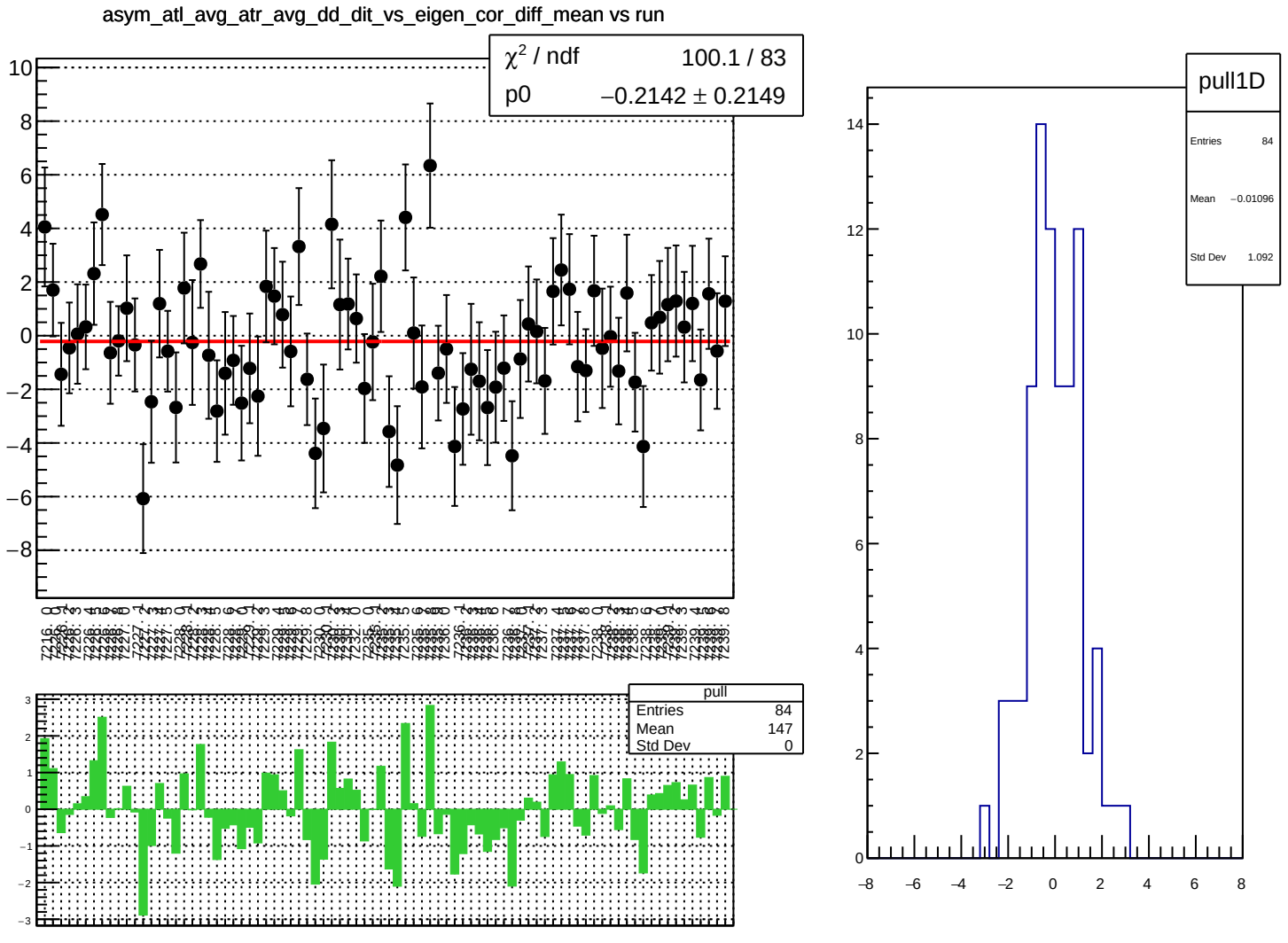

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 77.49 / 83
p0 −1.745e−14 ± 1.022e−14
pull
Entries 84
Mean 96.23
Std Dev 0

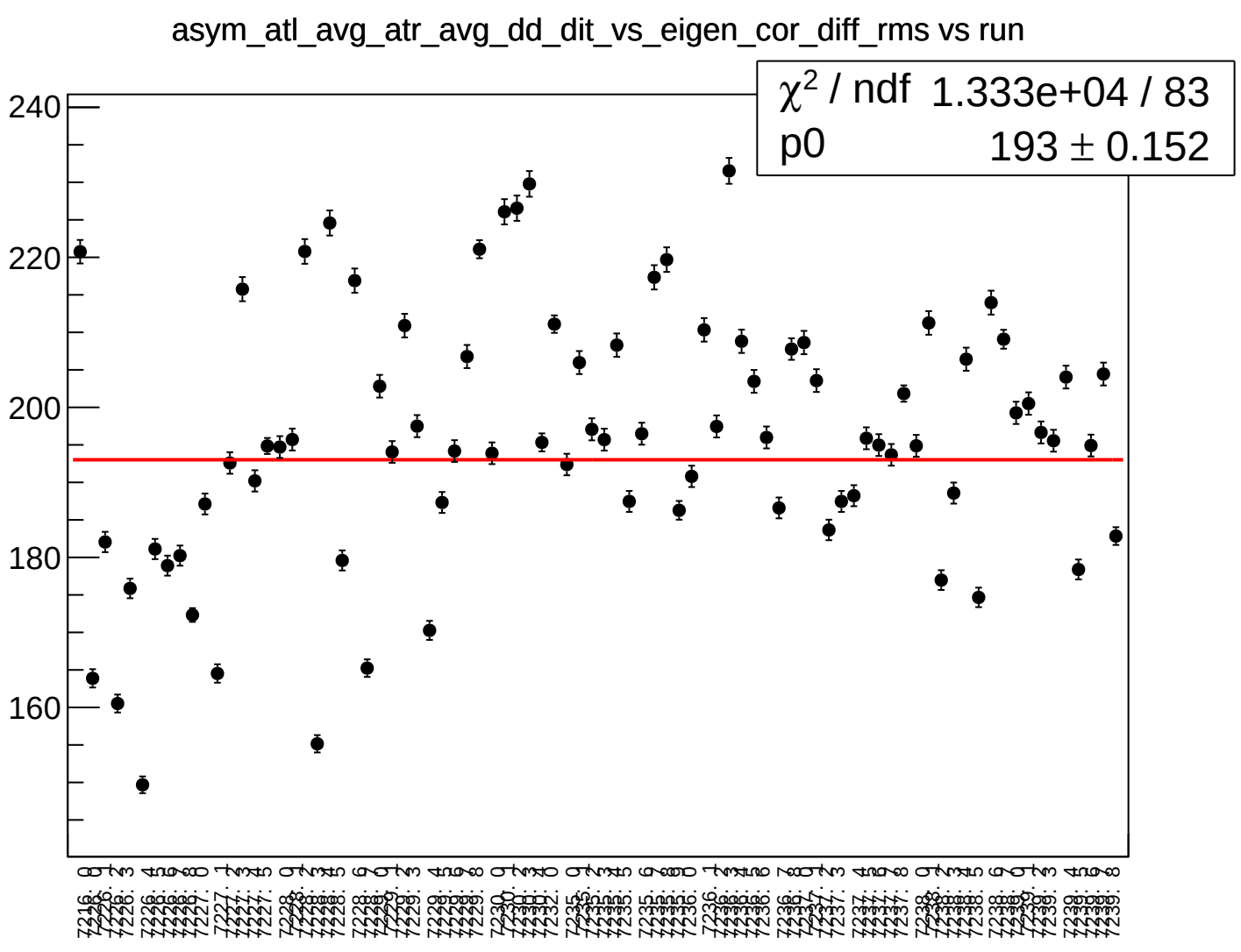

pull1D
Entries 84
Mean −0.09521
Std Dev 0.9558

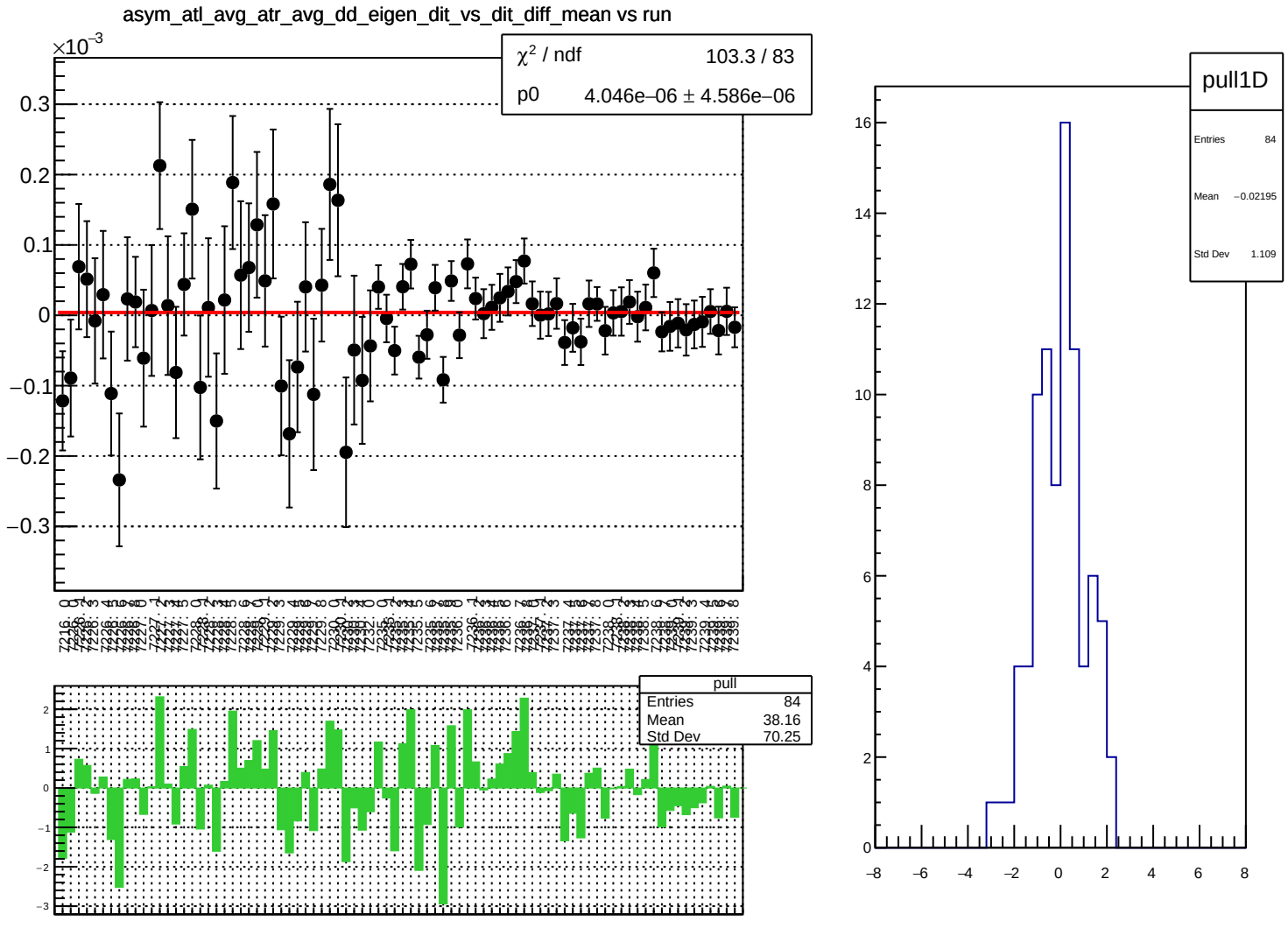

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.102e+06 / 83
p0 5.231e−12 ± 7.225e−15
1
0.8
0.6
0.4
0.2
0

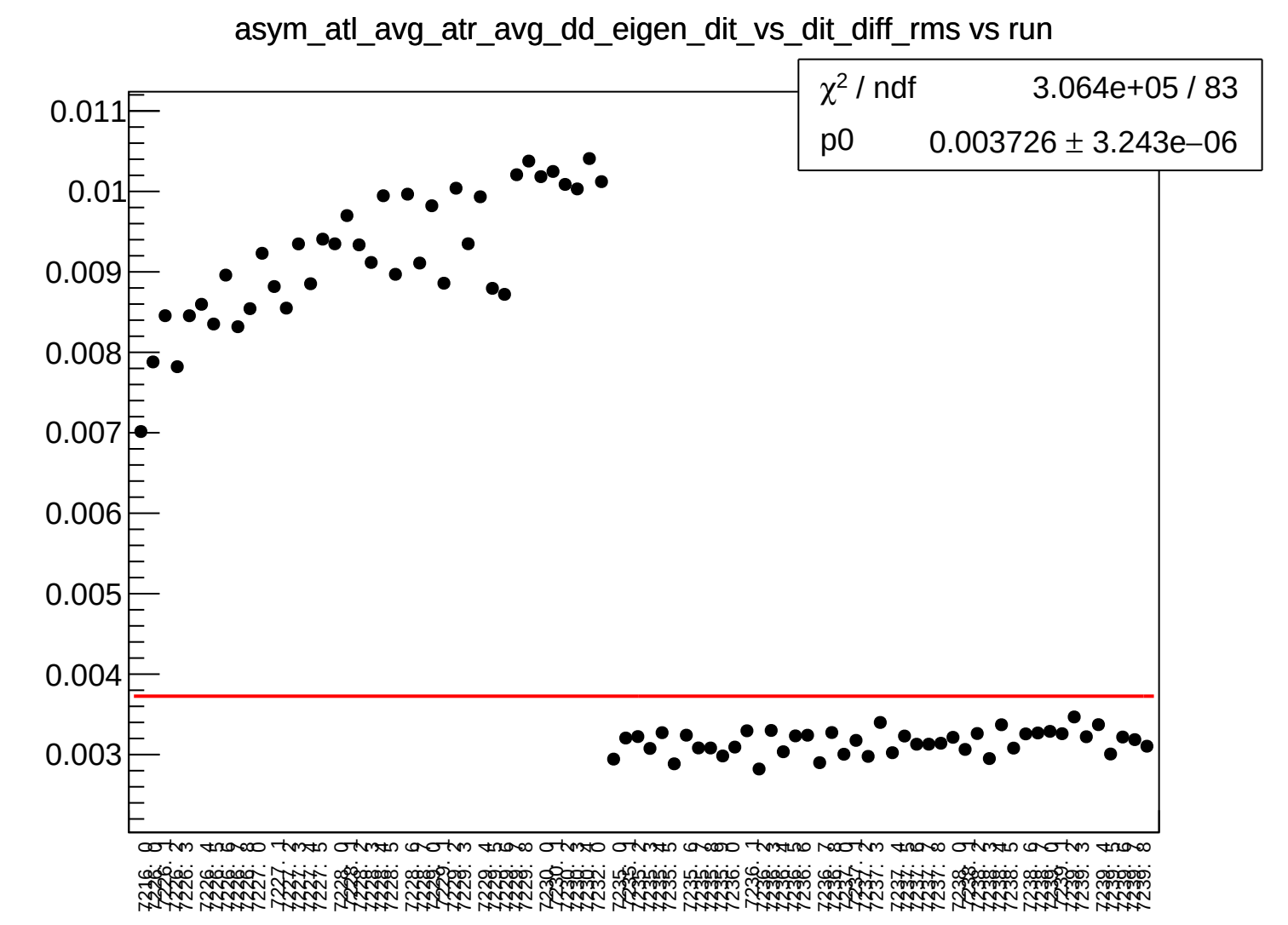

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 100.1 / 83
p0 −0.2142 ± 0.2149
pull
Entries 84
Mean 147
Std Dev 0
pull1D
Entries 84
Mean −0.01096
Std Dev 1.092

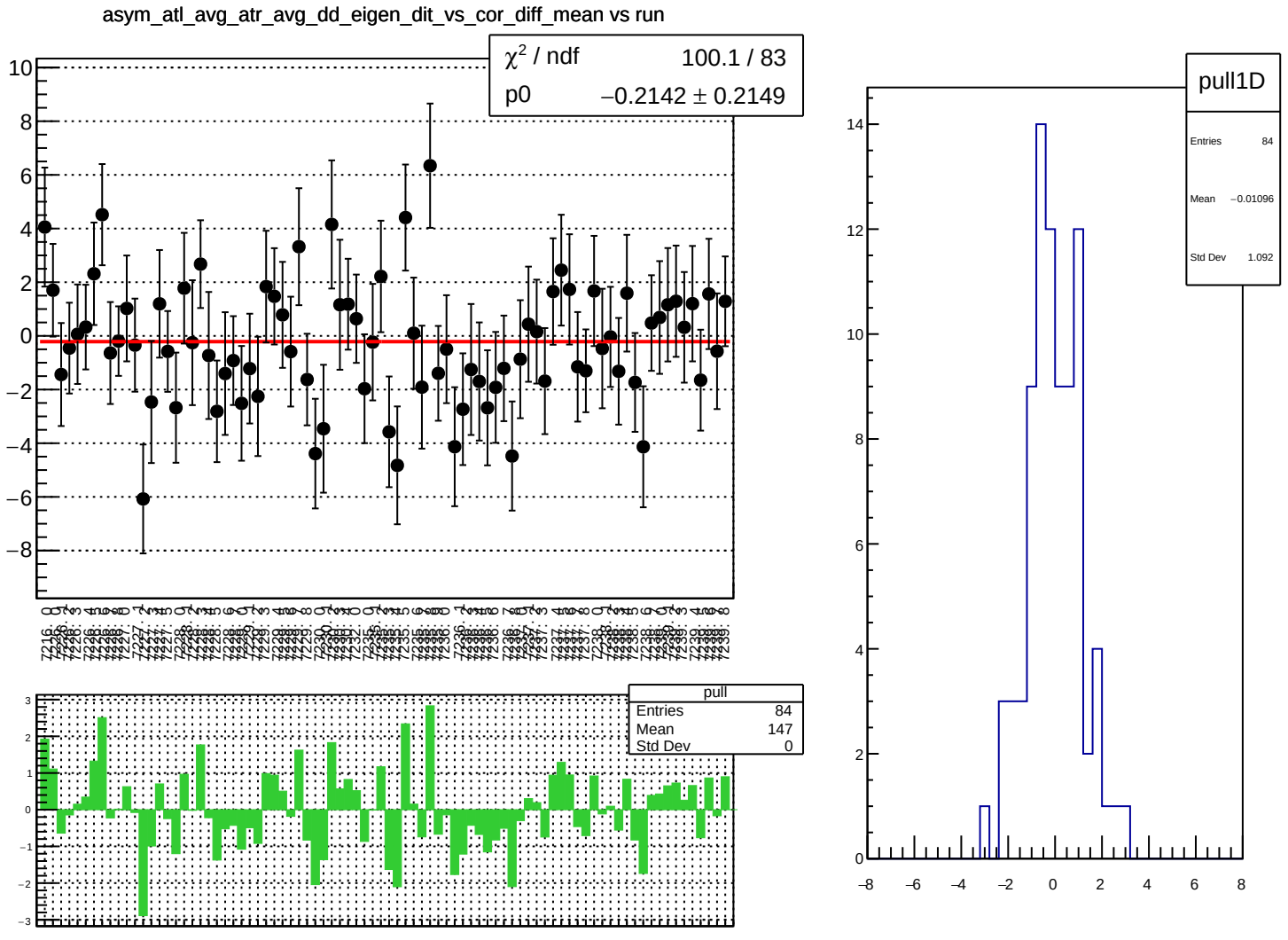

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.333e+04 / 83
p0 193 ± 0.152
240
220
200
180
160

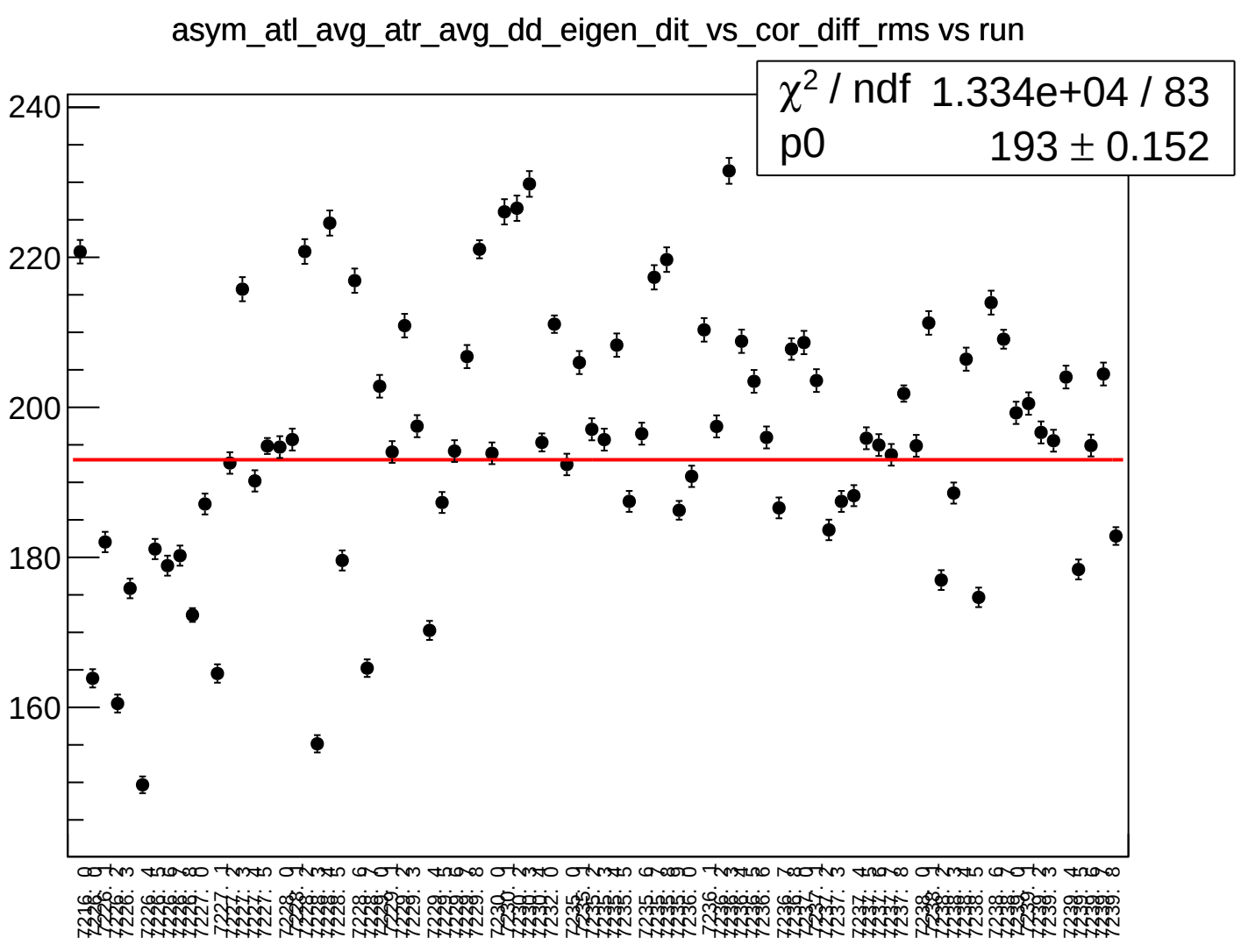

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.1 / 83
p0 −0.2142 ± 0.2149
pull
Entries 84
Mean 147
Std Dev 0
pull1D
Entries 84
Mean −0.01096
Std Dev 1.092

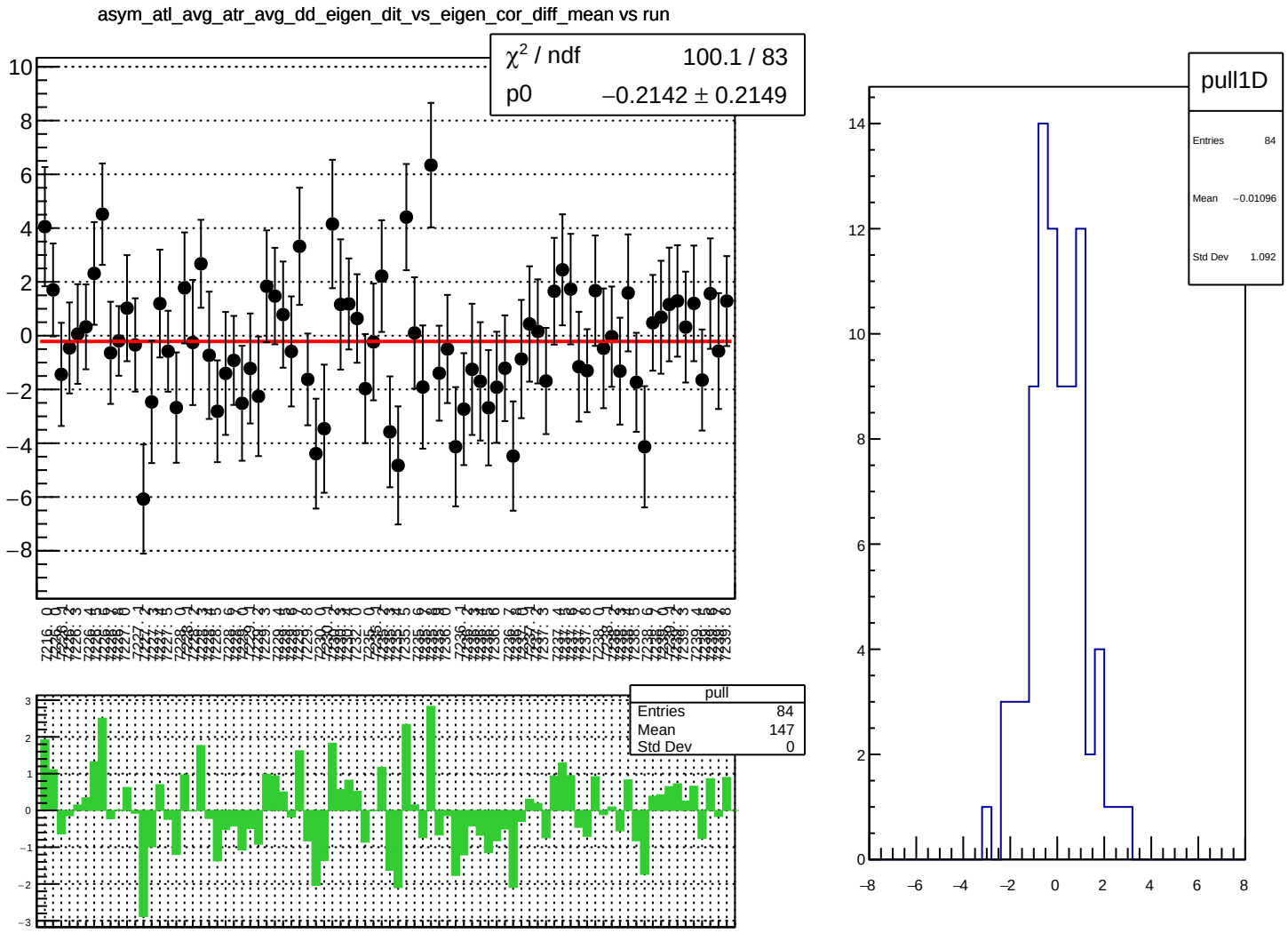

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.333e+04 / 83
p0 193 ± 0.152
240
220
200
180
160

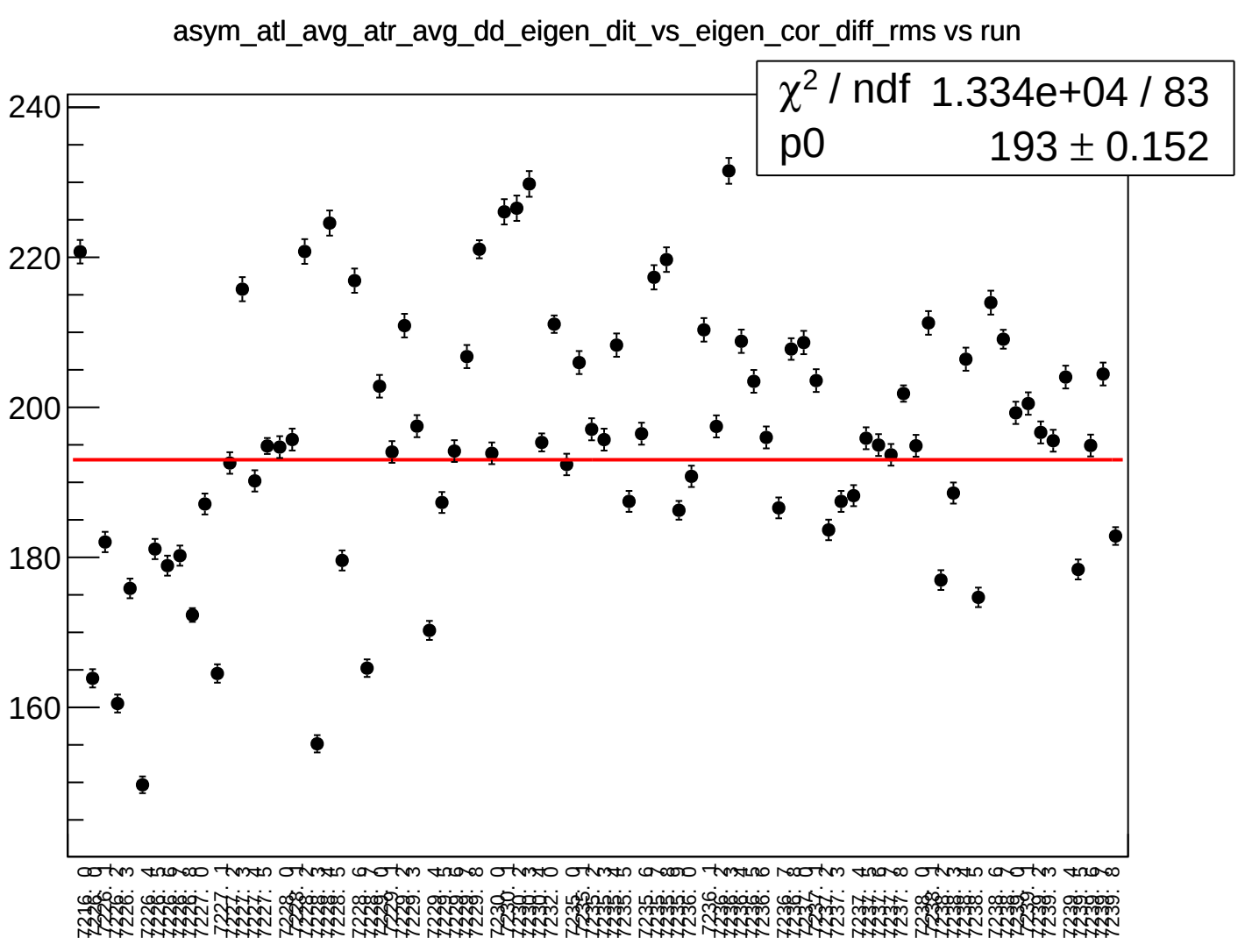

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103.3 / 83
p0 4.046e−06 ± 4.586e−06
pull
Entries 84
Mean 38.16
Std Dev 70.25
pull1D
Entries 84
Mean −0.02195
Std Dev 1.109

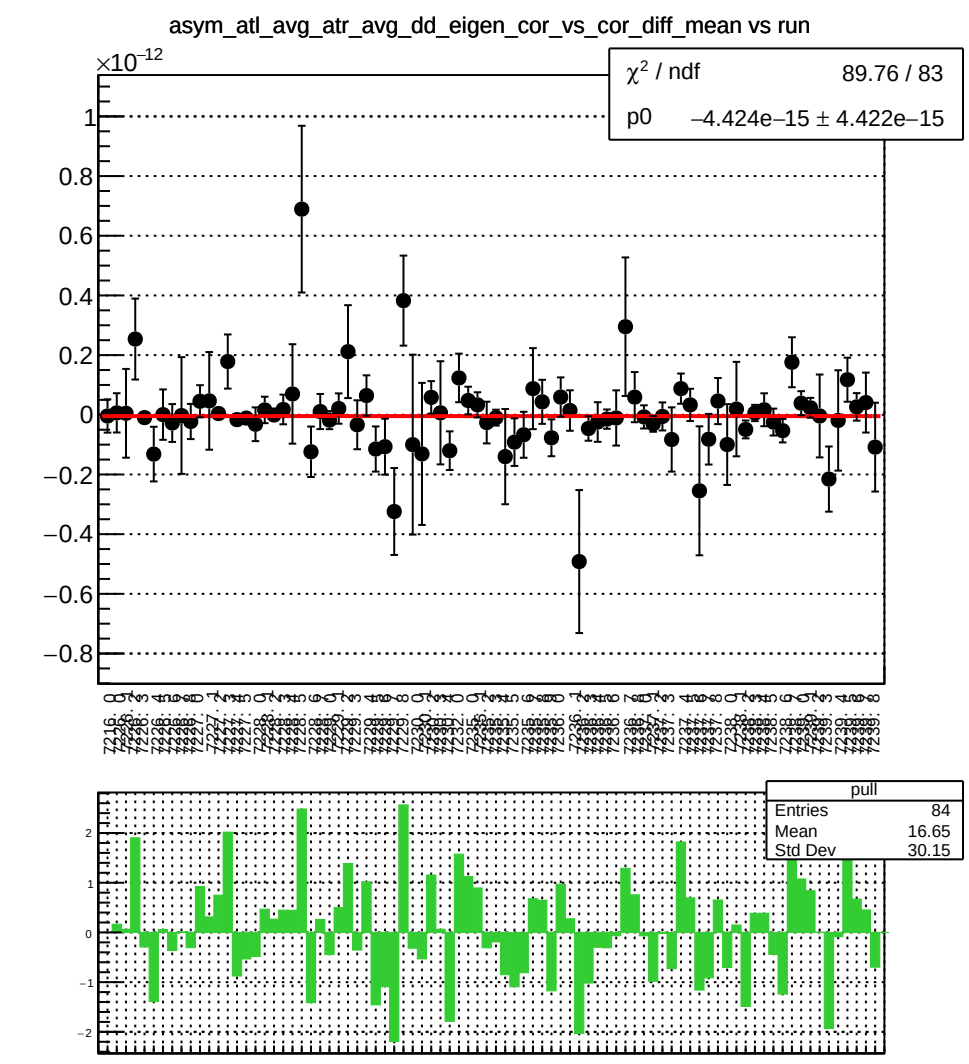

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.064e+05 / 83
p0 0.003726 ± 3.243e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

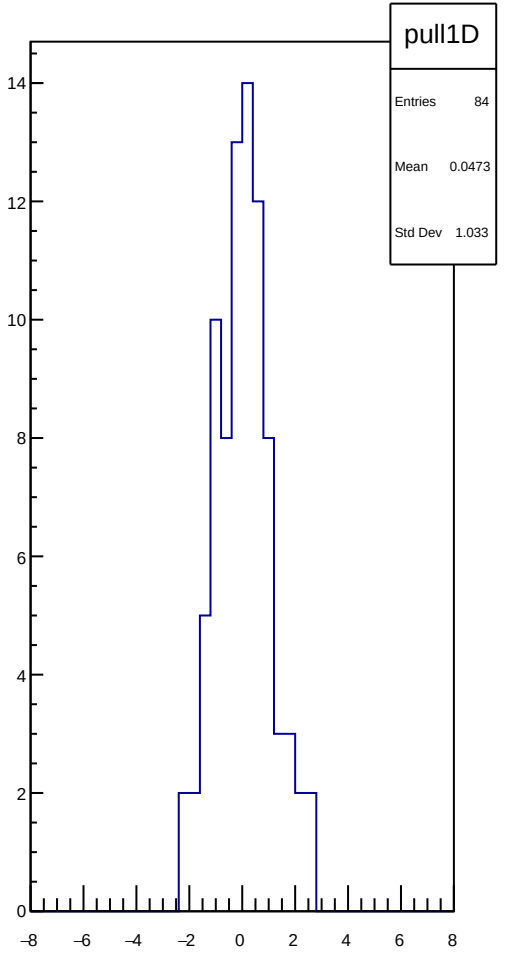

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.1 / 83
p0 −0.2142 ± 0.2149
pull
Entries 84
Mean 147
Std Dev 0
pull1D
Entries 84
Mean −0.01096
Std Dev 1.092

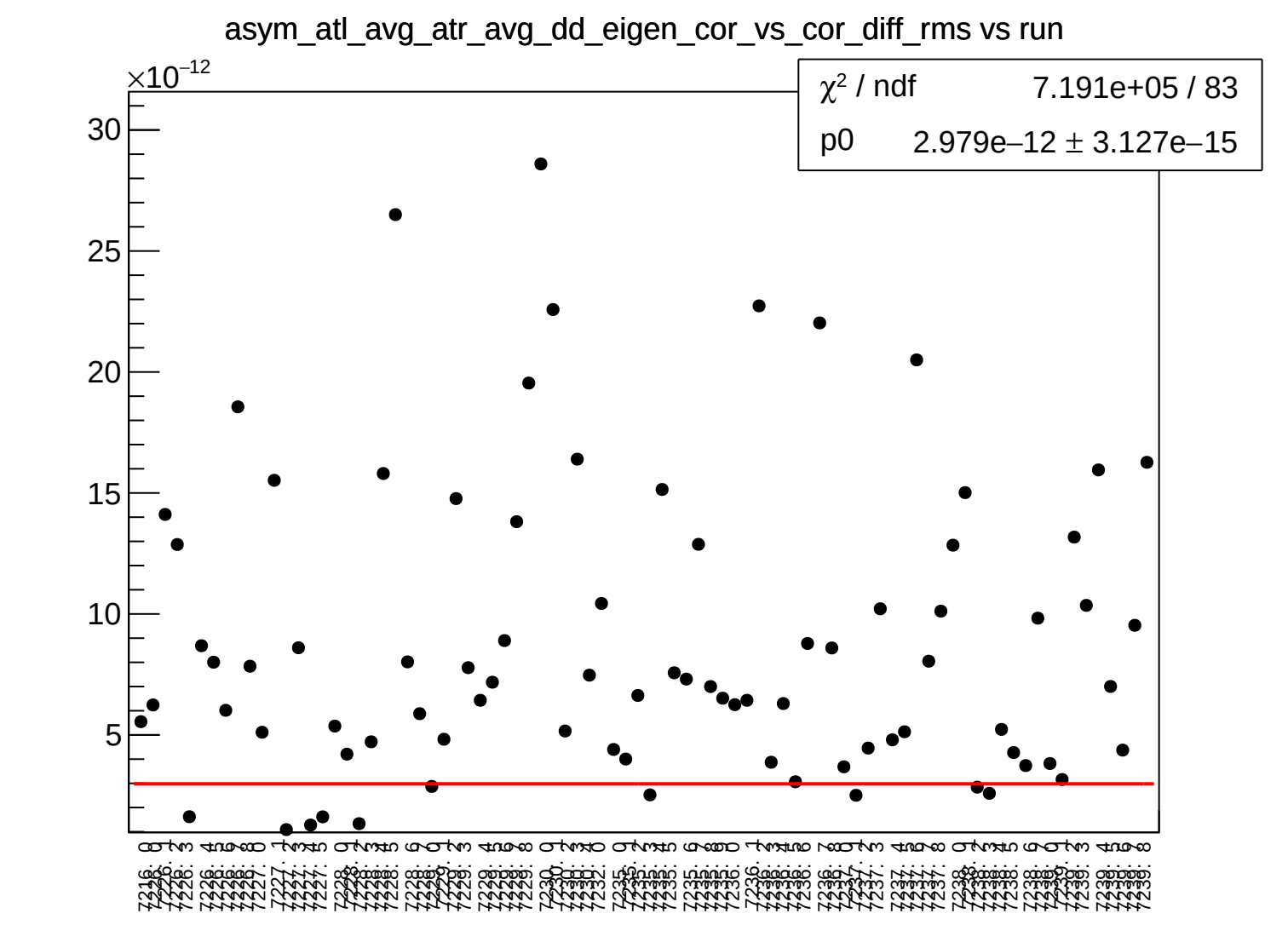

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.334e+04 / 83
p0 193 ± 0.152
240
220
200
180
160

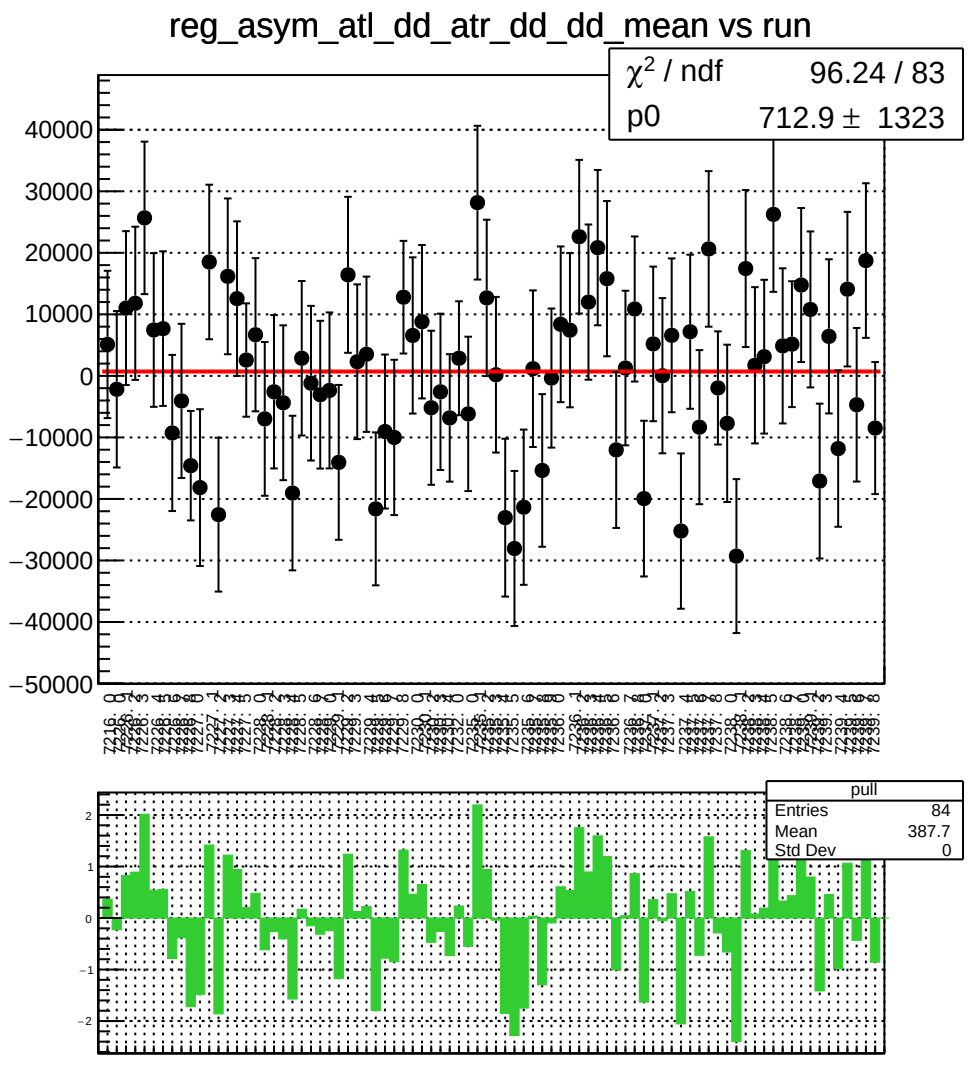

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.1 / 83
p0 −0.2142 ± 0.2149
pull
Entries 84
Mean 147
Std Dev 0
pull1D
Entries 84
Mean −0.01096
Std Dev 1.092

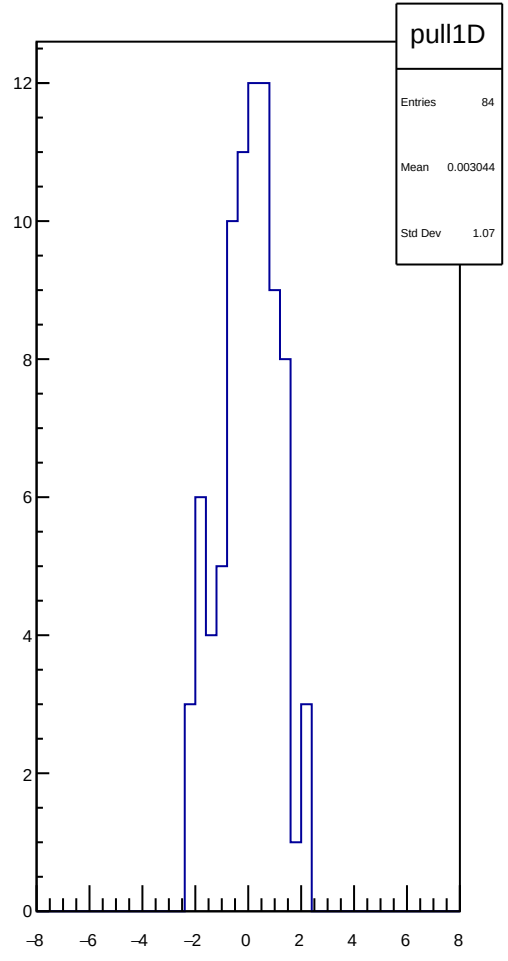

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.334e+04 / 83
p0 193 ± 0.152
240
220
200
180
160

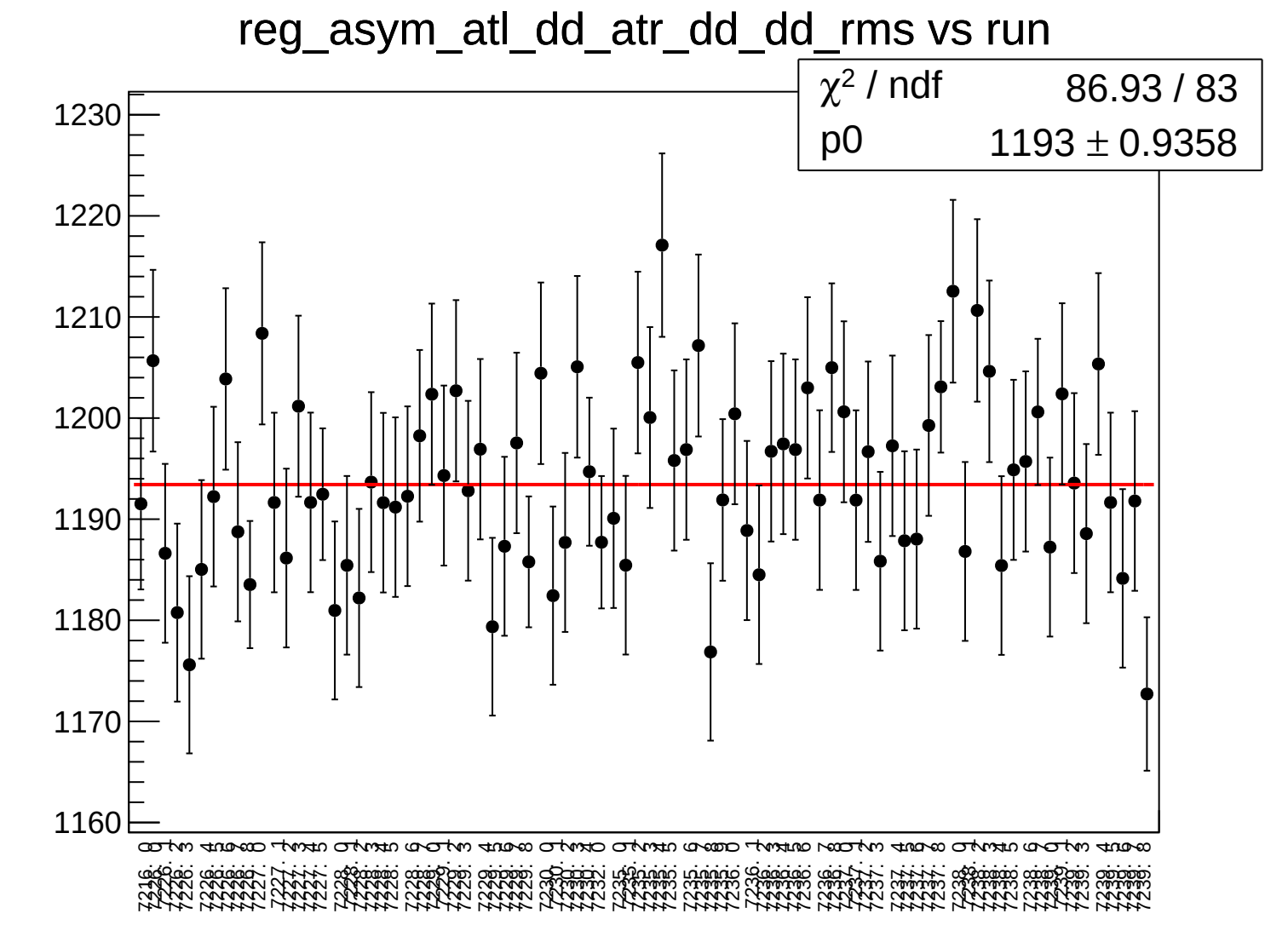

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 89.76 / 83
p0 −4.424e−15 ± 4.422e−15
pull
Entries 84
Mean 16.65
Std Dev 30.15

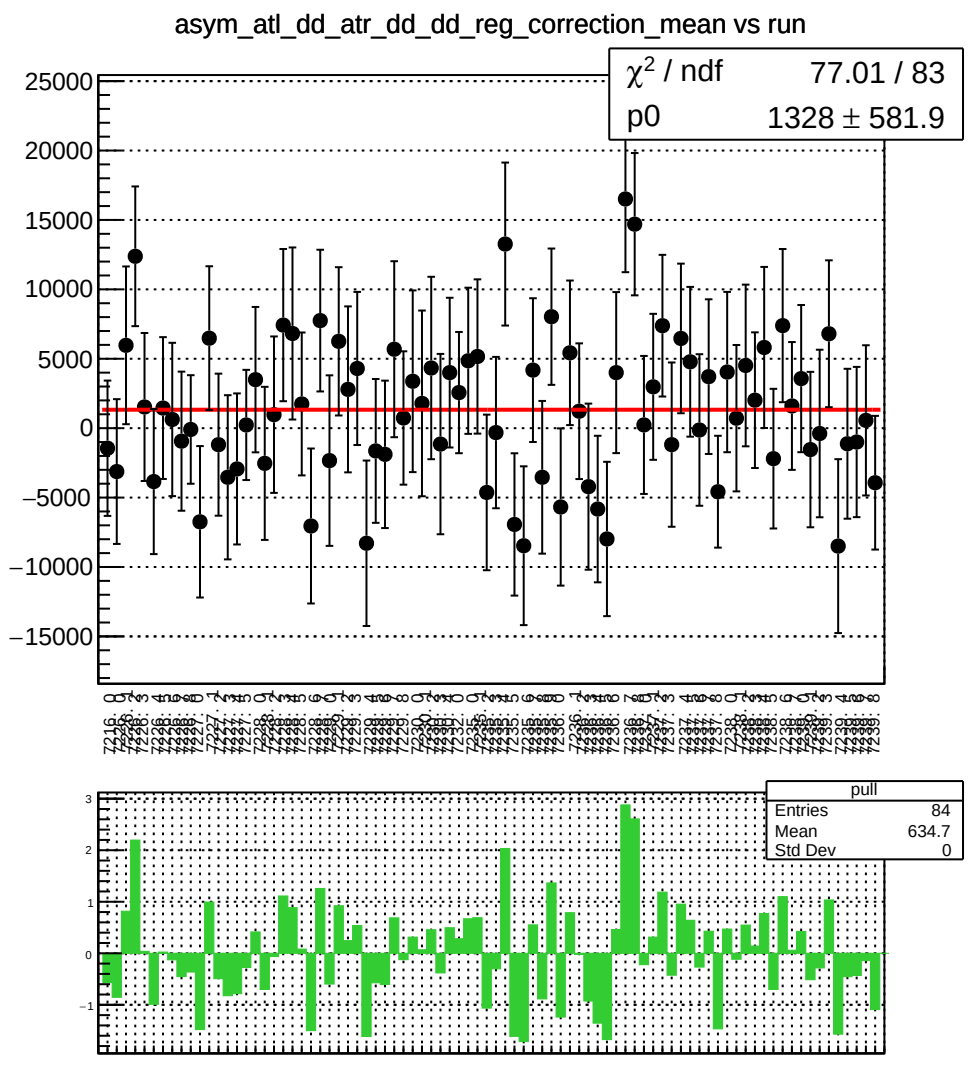

pull1D
Entries 84
Mean 0.0473
Std Dev 1.033

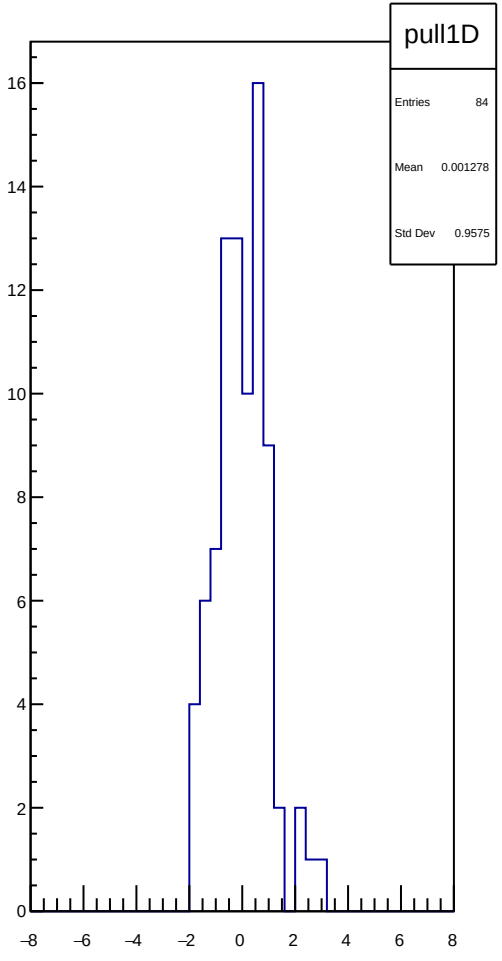

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.191e+05 / 83
p0 2.979e−12 ± 3.127e−15
30
25
20
15
10
5

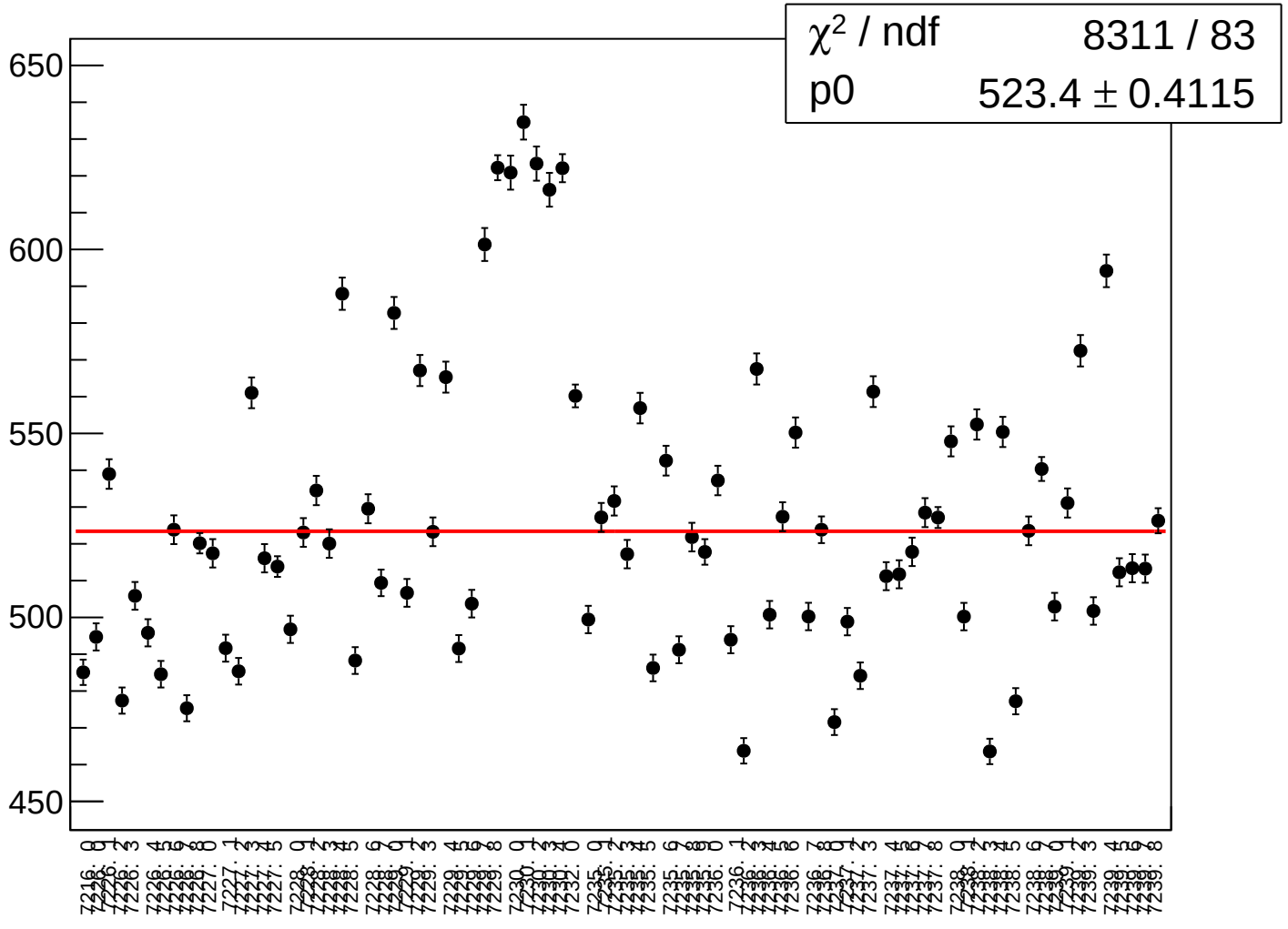

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 96.24 / 83
p0 712.9 ± 1323
pull
Entries 84
Mean 387.7
Std Dev 0

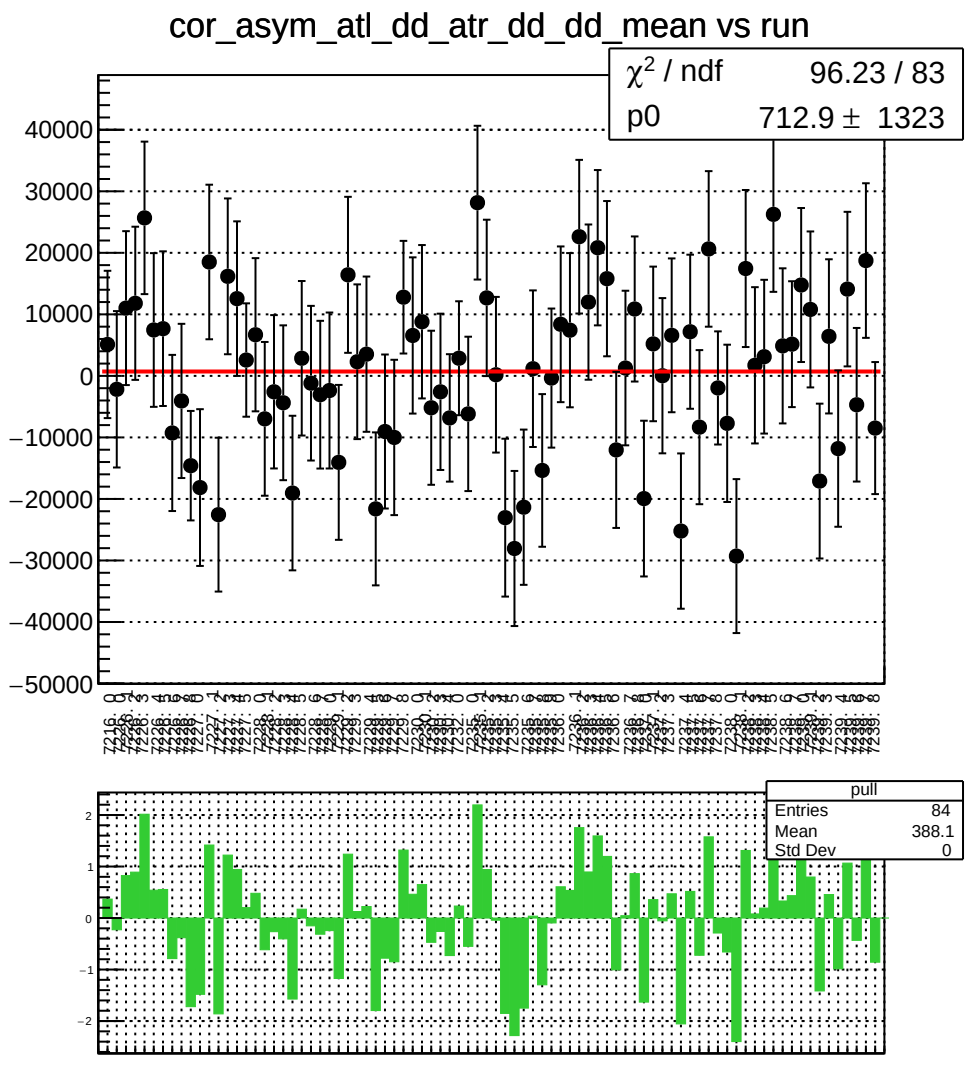

pull1D
Entries 84
Mean 0.003044
Std Dev 1.07

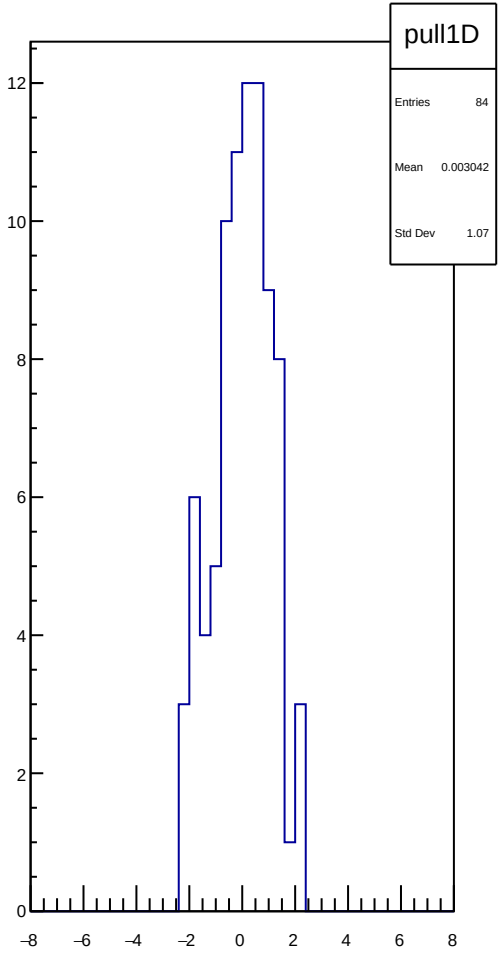

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 86.93 / 83
p0 1193 ± 0.9358
1230
1220
1210
1200
1190
1180
1170
1160

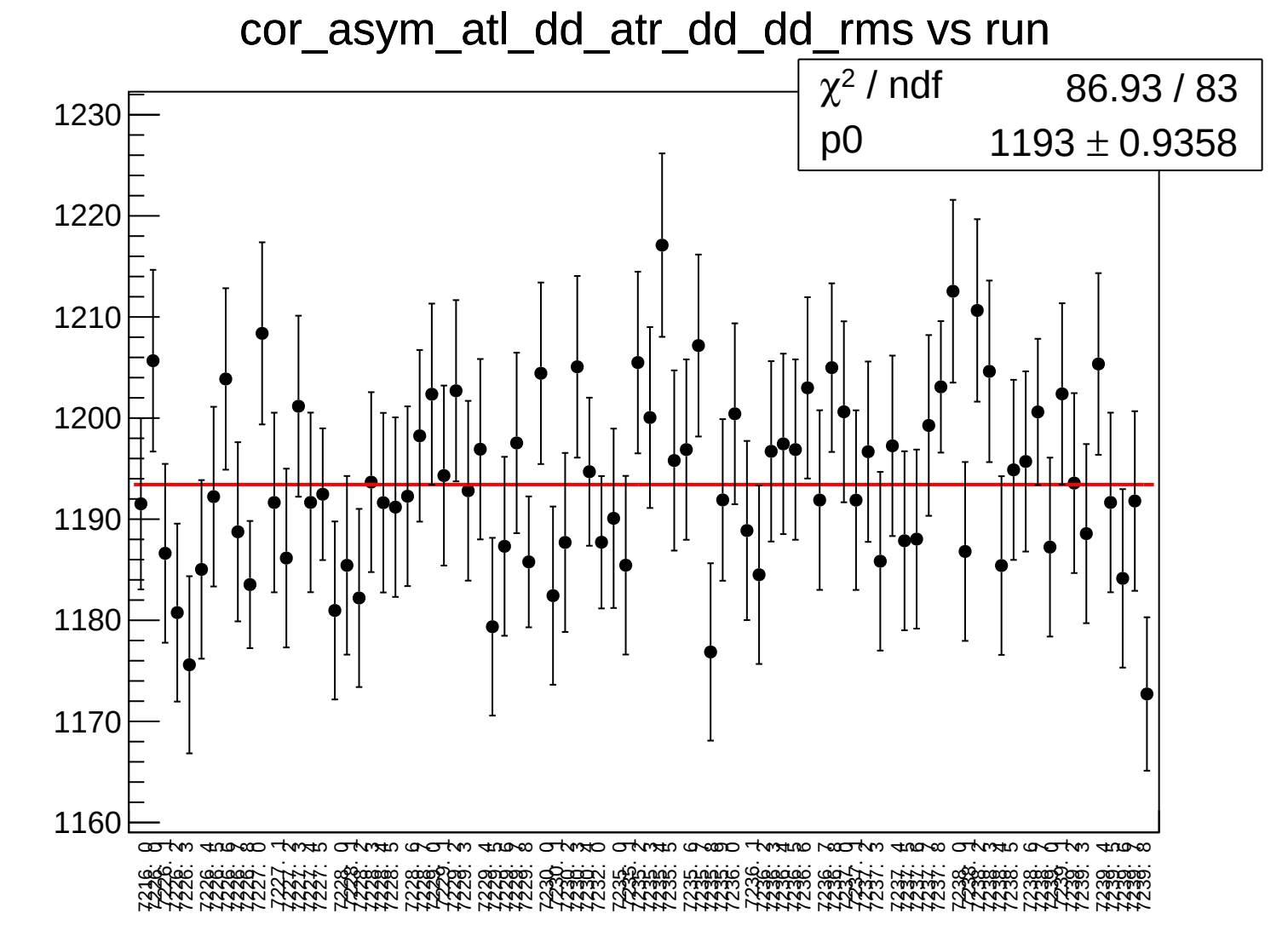

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 77.01 / 83
p0 1328 ± 581.9
pull
Entries 84
Mean 634.7
Std Dev 0

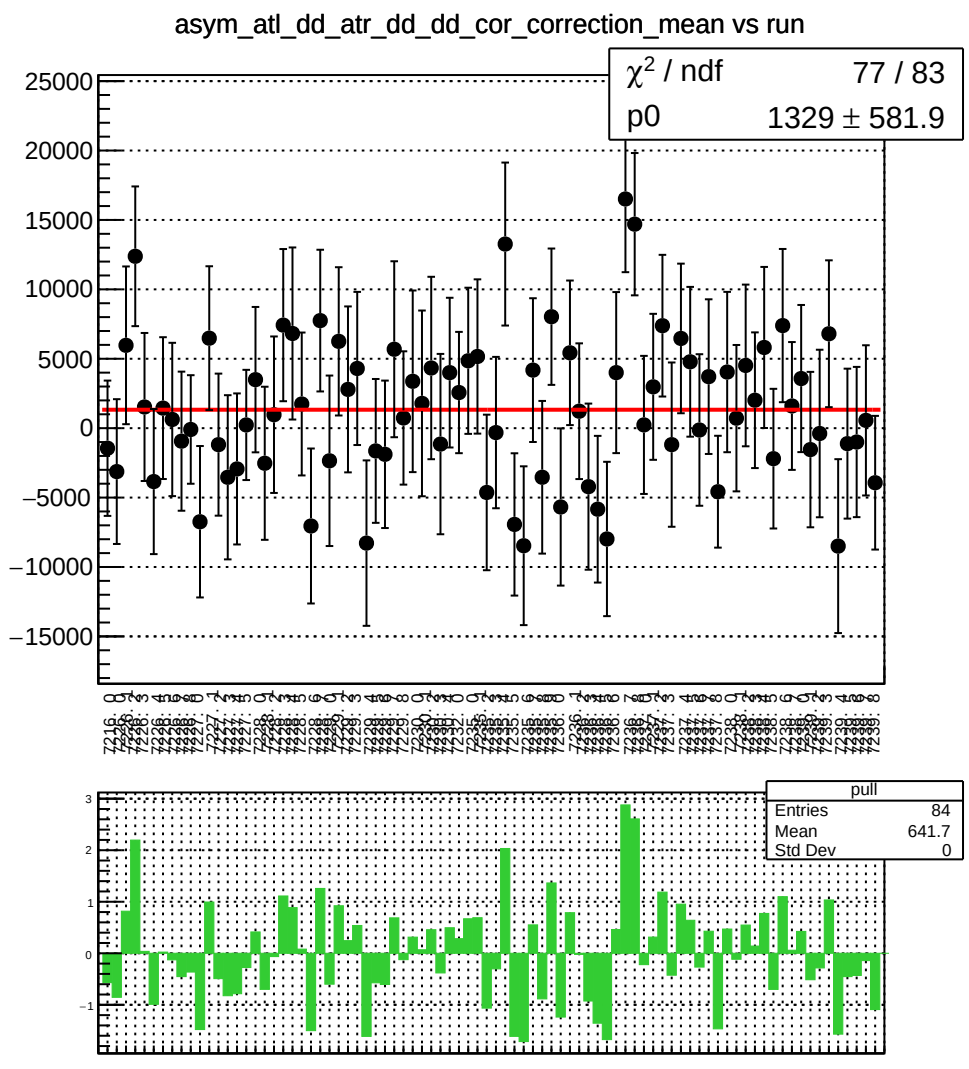

pull1D
Entries 84
Mean 0.001278
Std Dev 0.9575

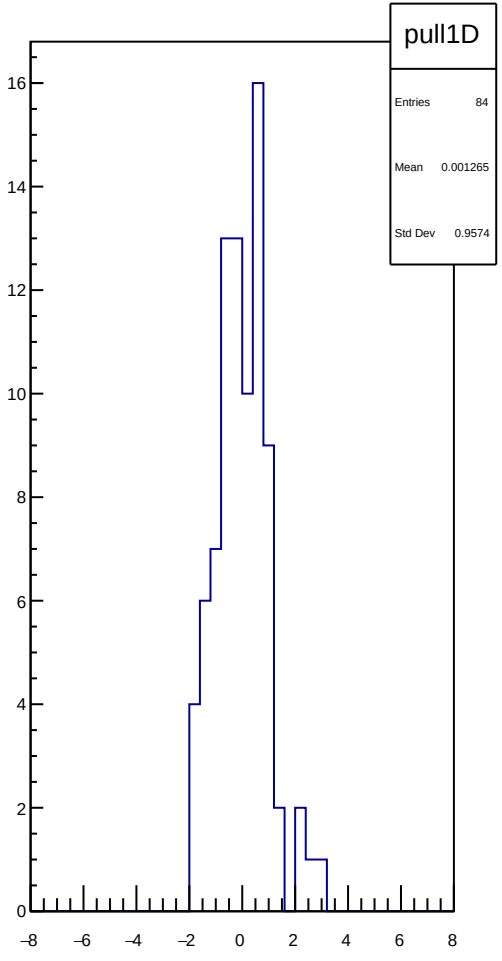

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 8311 / 83
p0 523.4 ± 0.4115
650
600
550
500
450

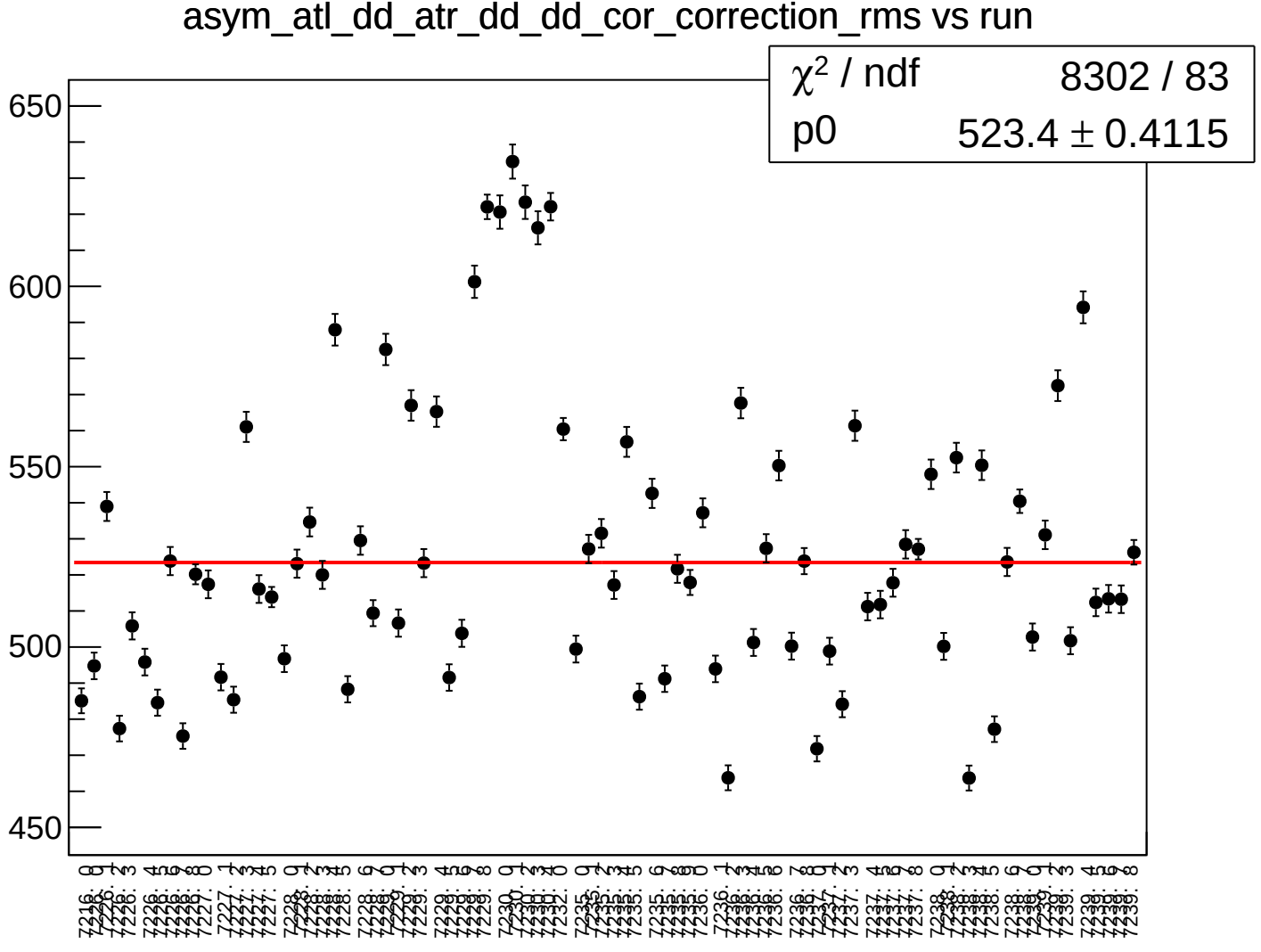

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 96.23 / 83
p0 712.9 ± 1323
pull
Entries 84
Mean 388.1
Std Dev 0

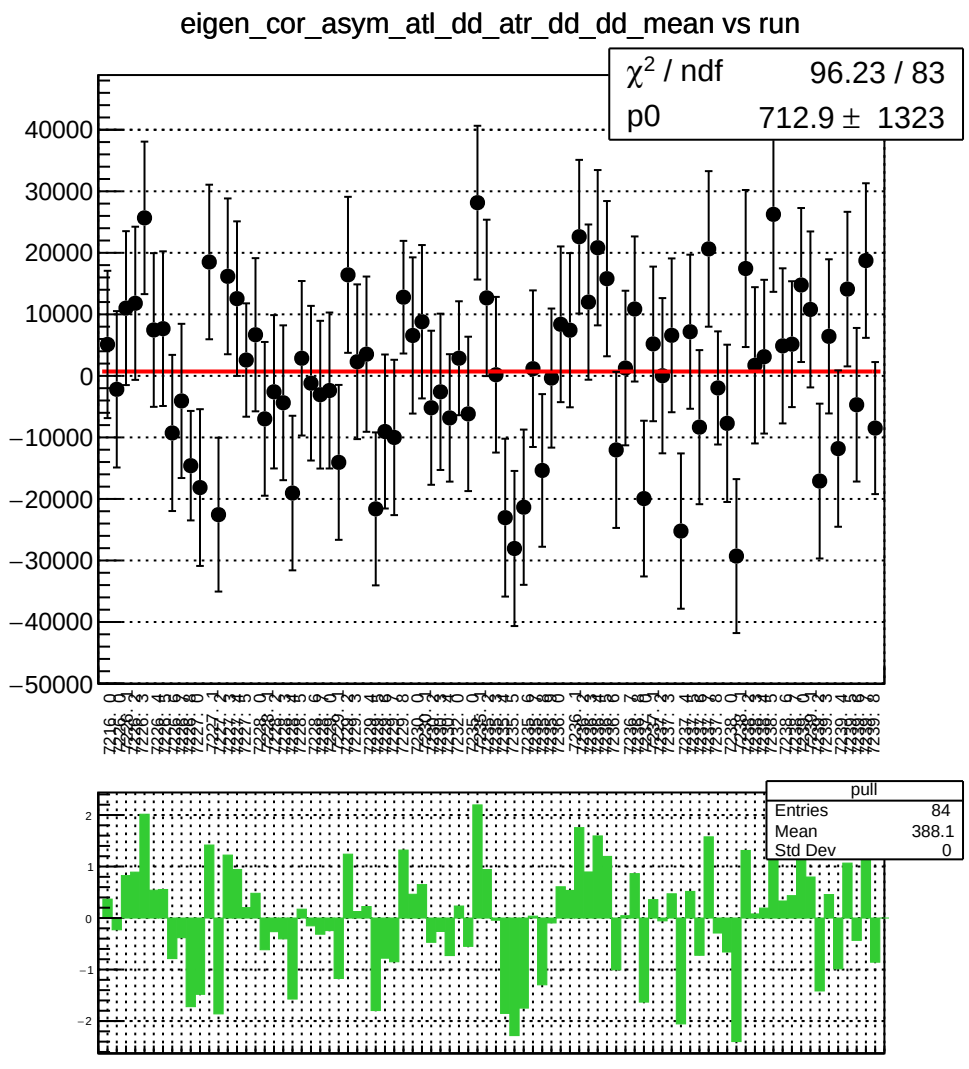

pull1D
Entries 84
Mean 0.003042
Std Dev 1.07

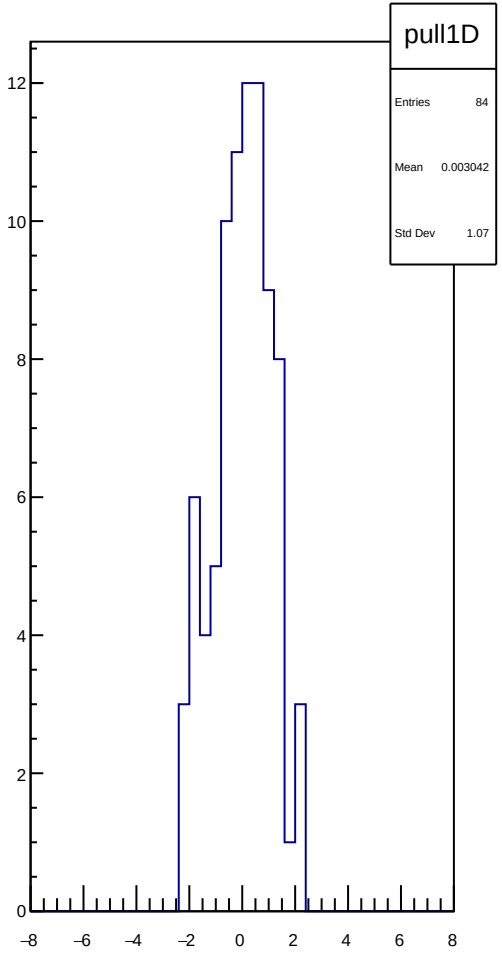

cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 86.93 / 83
p0 1193 ± 0.9358
1230
1220
1210
1200
1190
1180
1170
1160

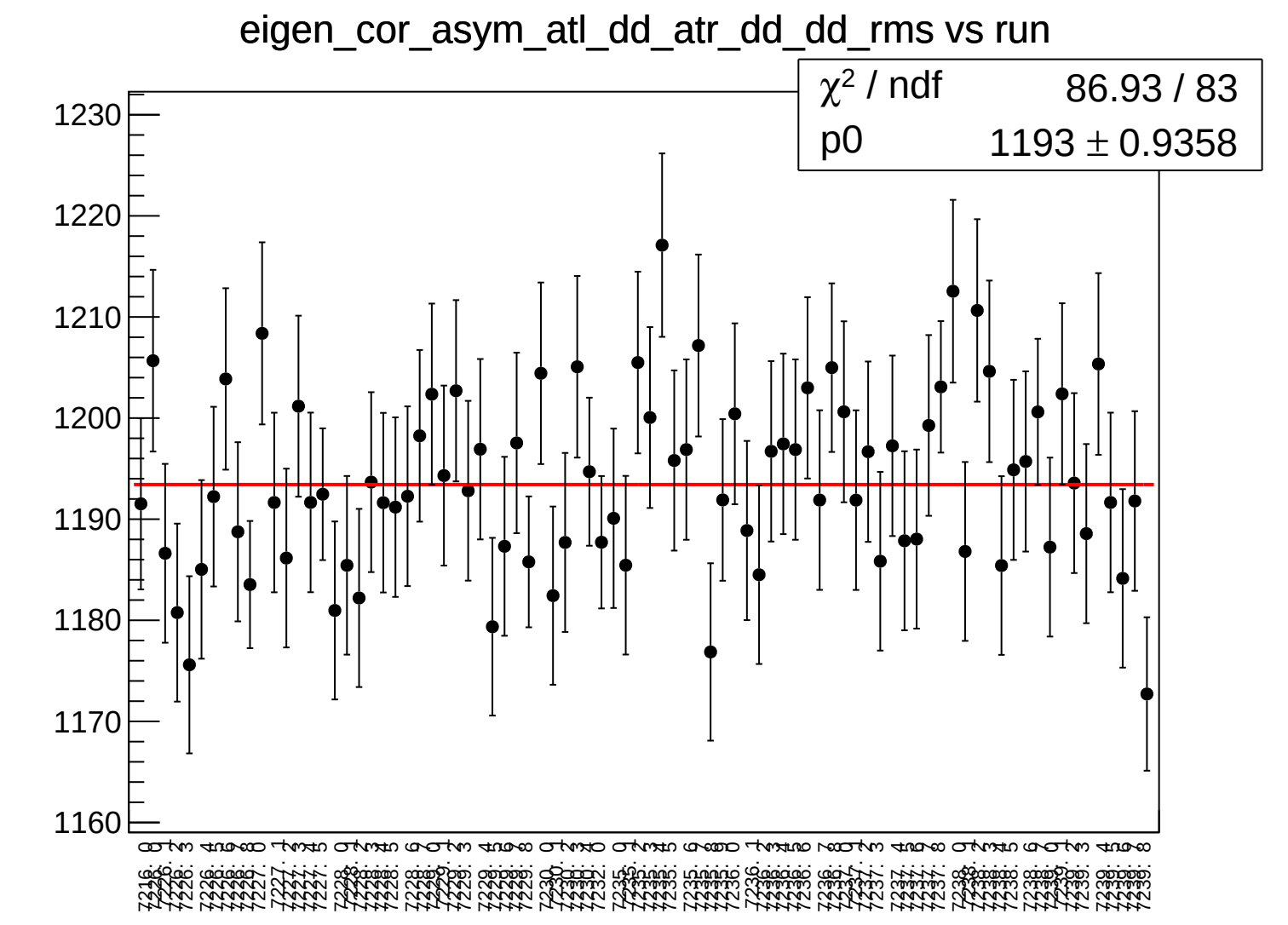

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 77 / 83
p0 1329 ± 581.9
pull
Entries 84
Mean 641.7
Std Dev 0

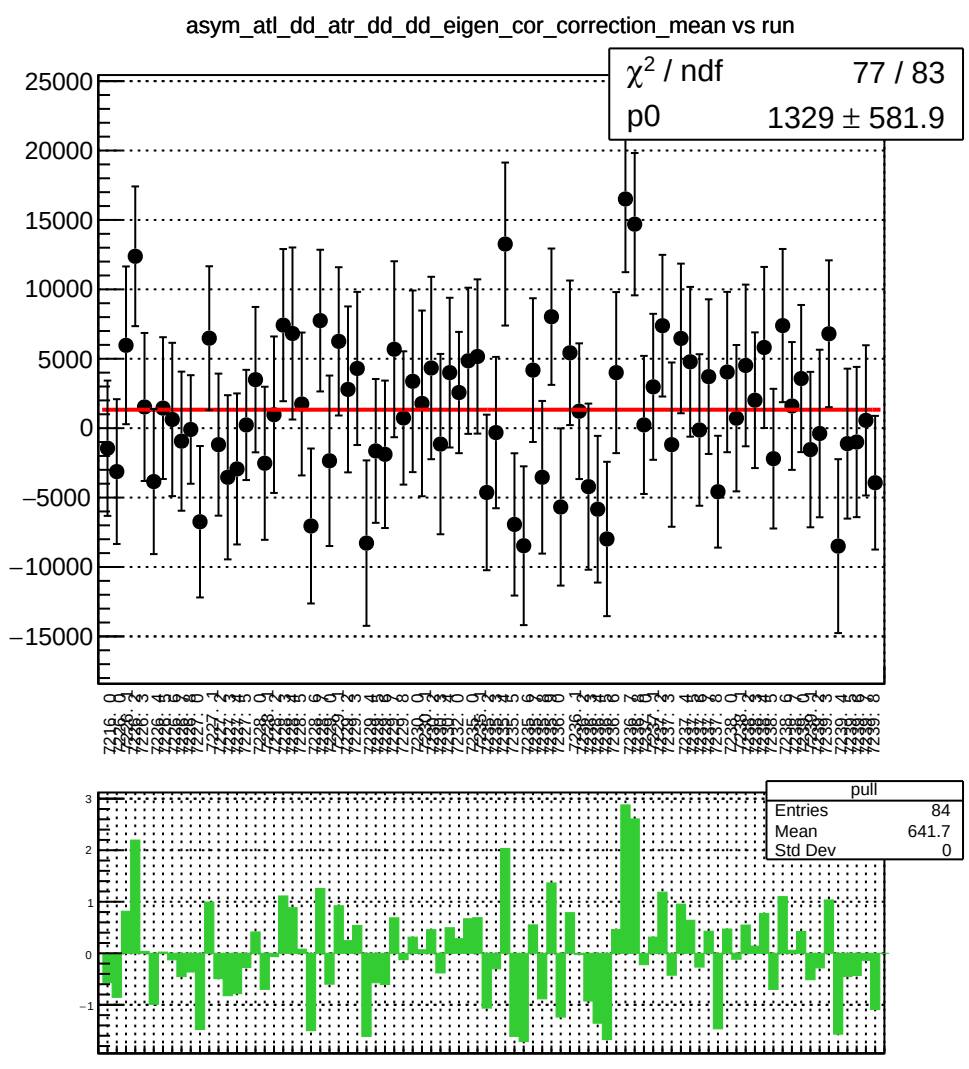

pull1D
Entries 84
Mean 0.001265
Std Dev 0.9574

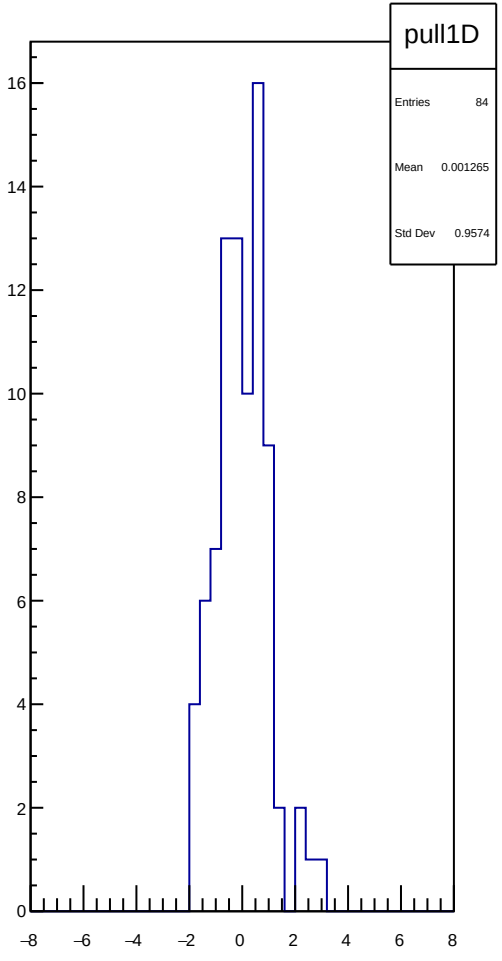

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 8302 / 83
p0 523.4 ± 0.4115
650
600
550
500
450

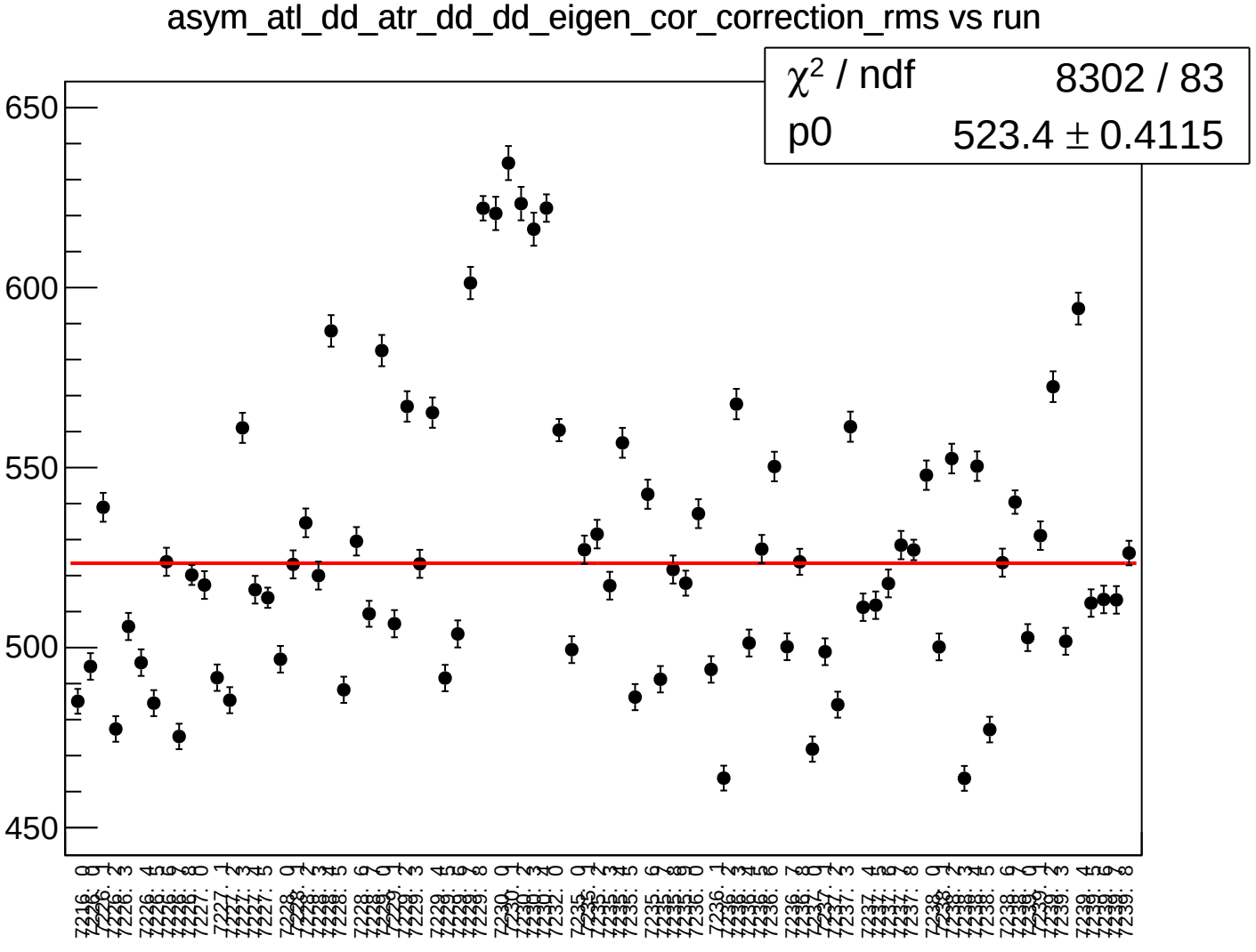

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 96.23 / 83
p0 712.9 ± 1323
pull
Entries 84
Mean 388.1
Std Dev 0

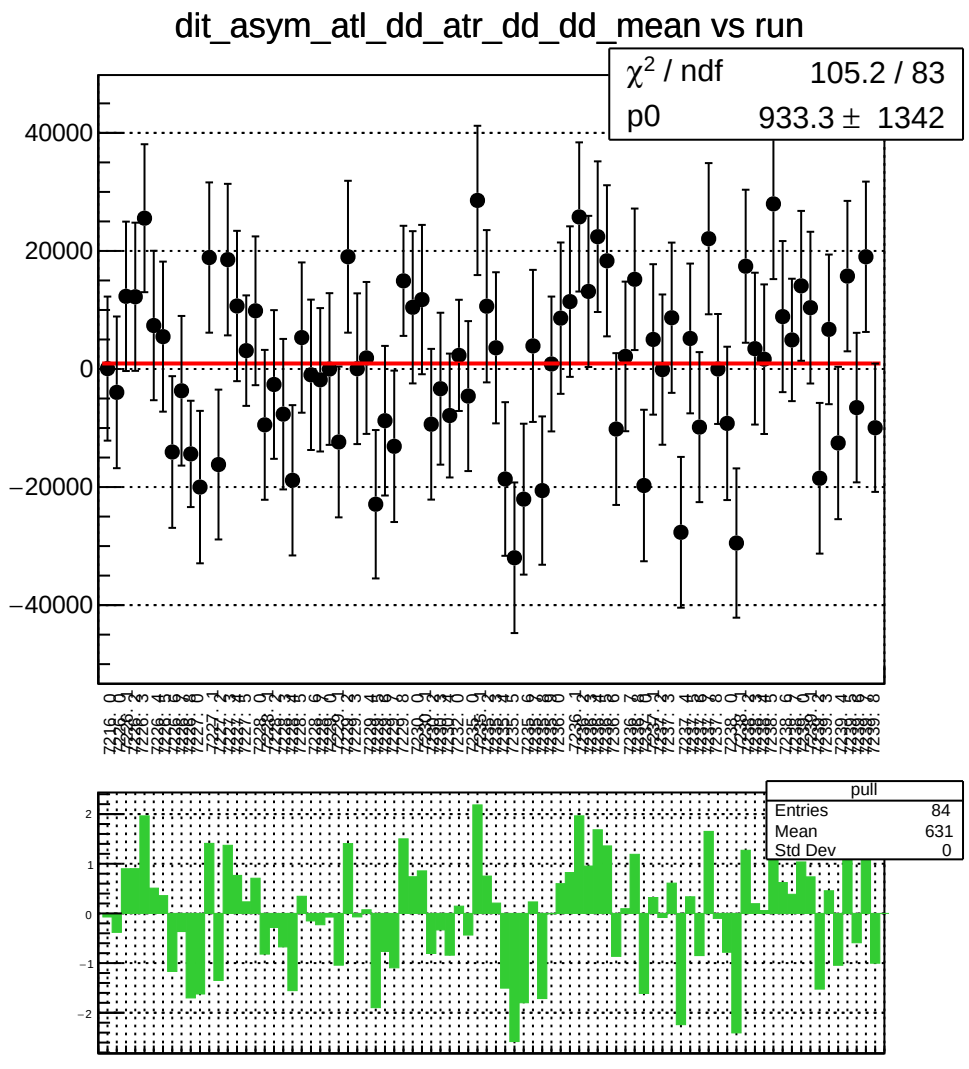

pull1D
Entries 84
Mean 0.003042
Std Dev 1.07

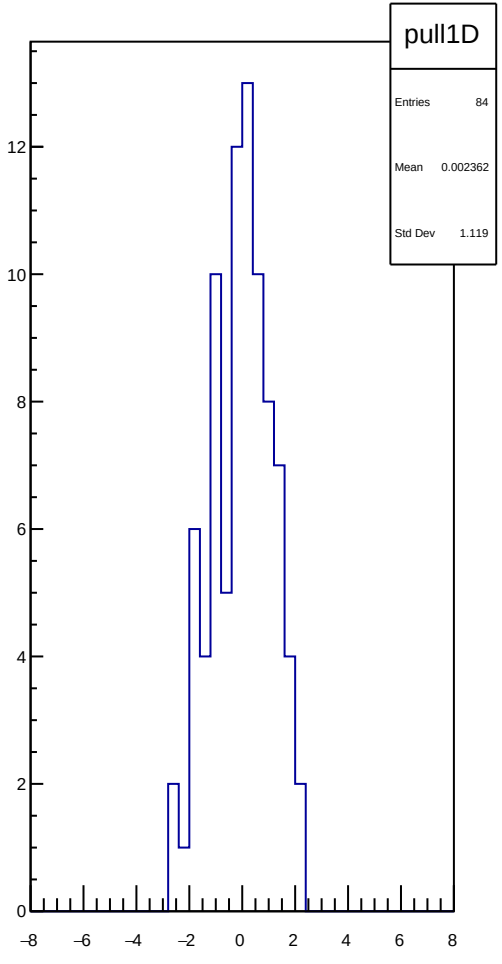

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 86.93 / 83
p0 1193 ± 0.9358
1230
1220
1210
1200
1190
1180
1170
1160

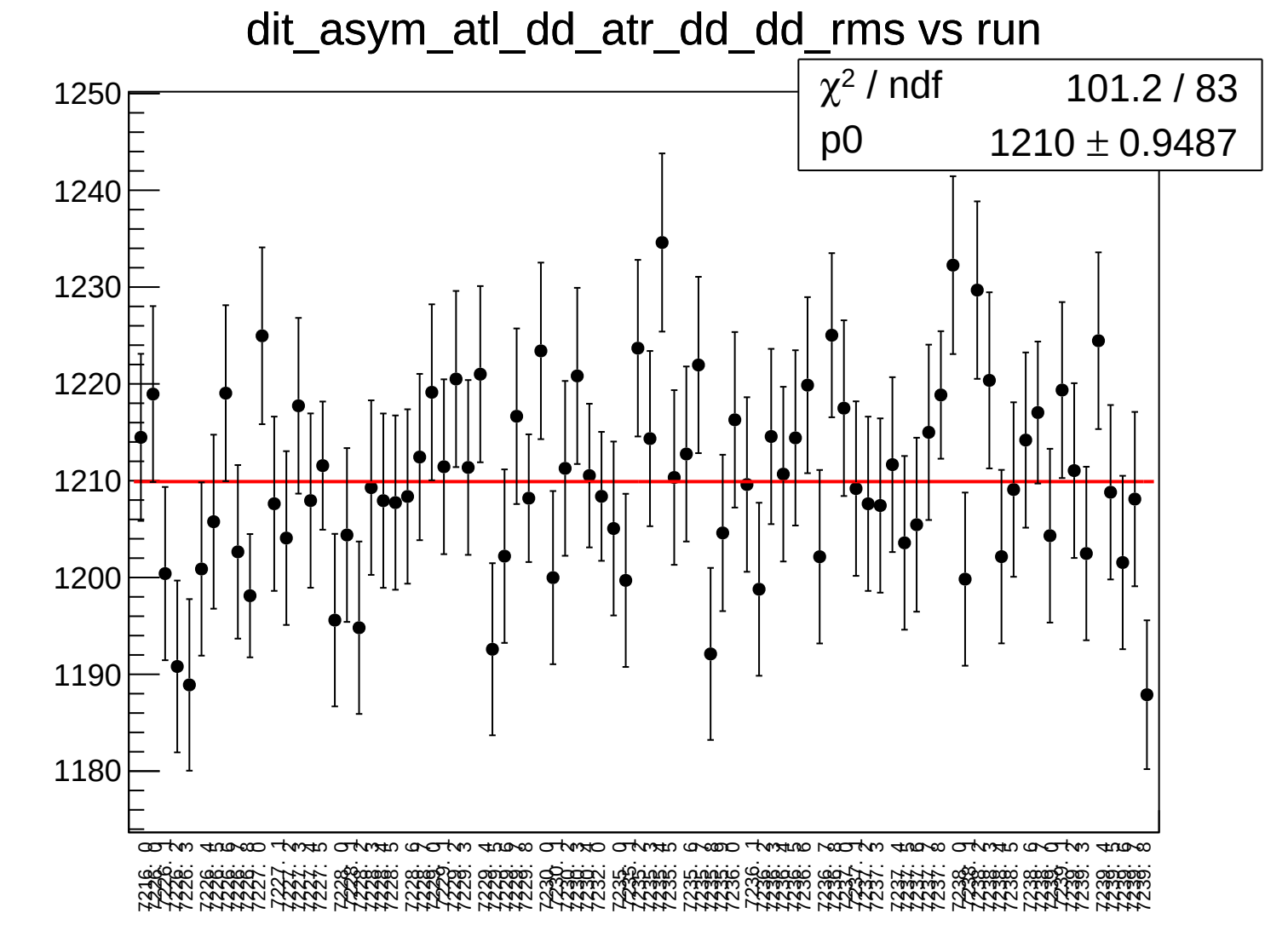

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 77 / 83
p0 1329 ± 581.9
pull
Entries 84
Mean 641.7
Std Dev 0

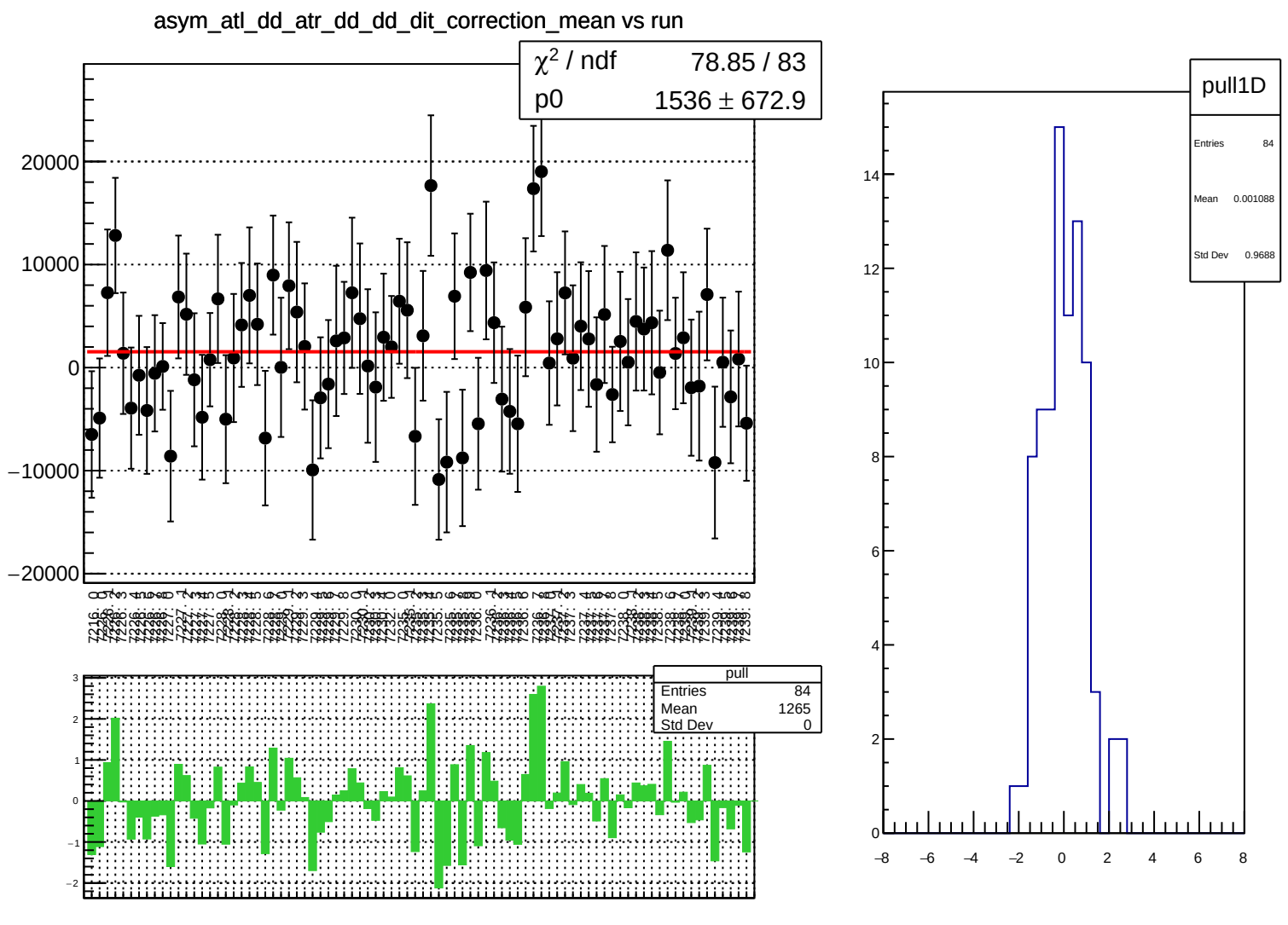

pull1D
Entries 84
Mean 0.001265
Std Dev 0.9574

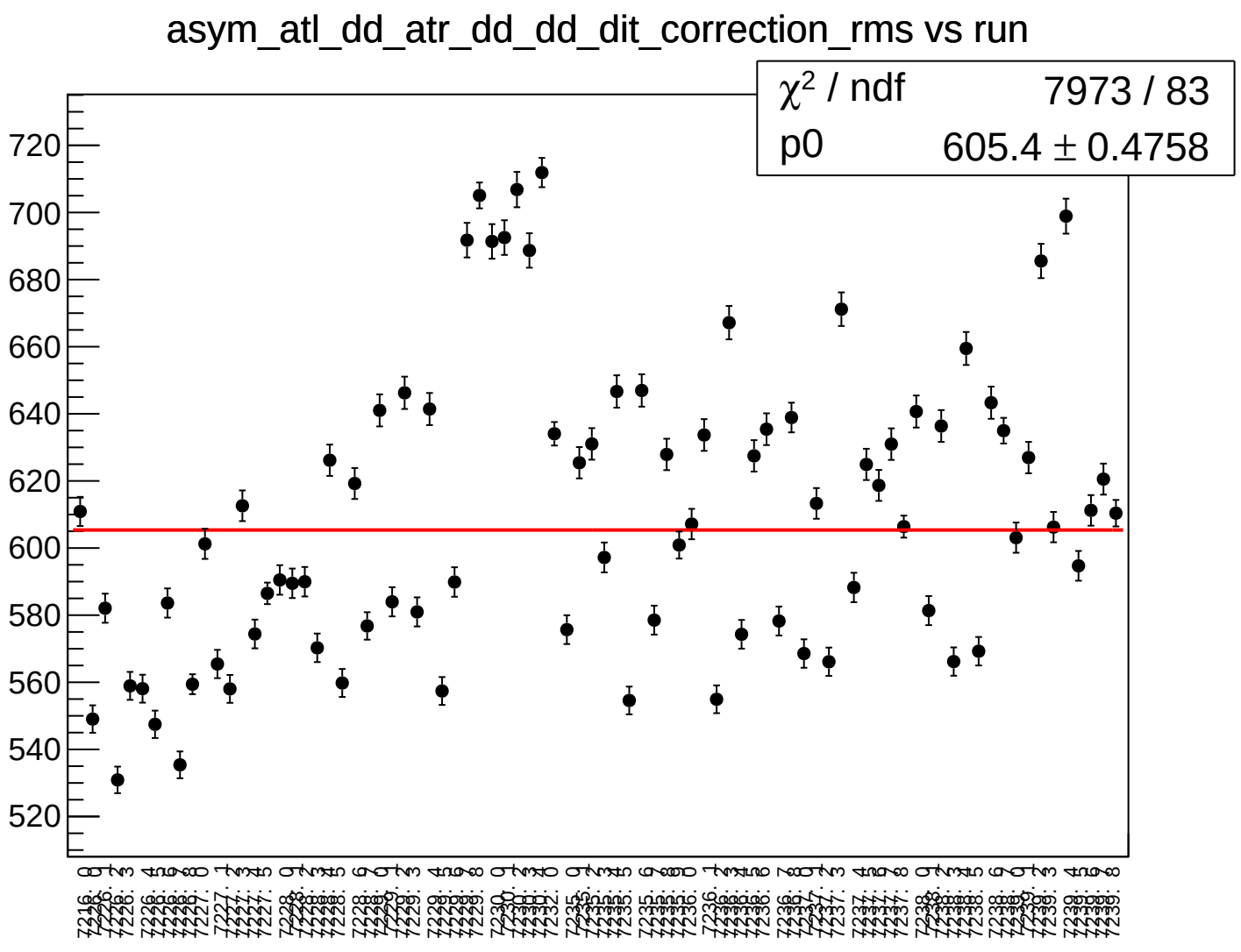

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 8302 / 83
p0 523.4 ± 0.4115
650
600
550
500
450

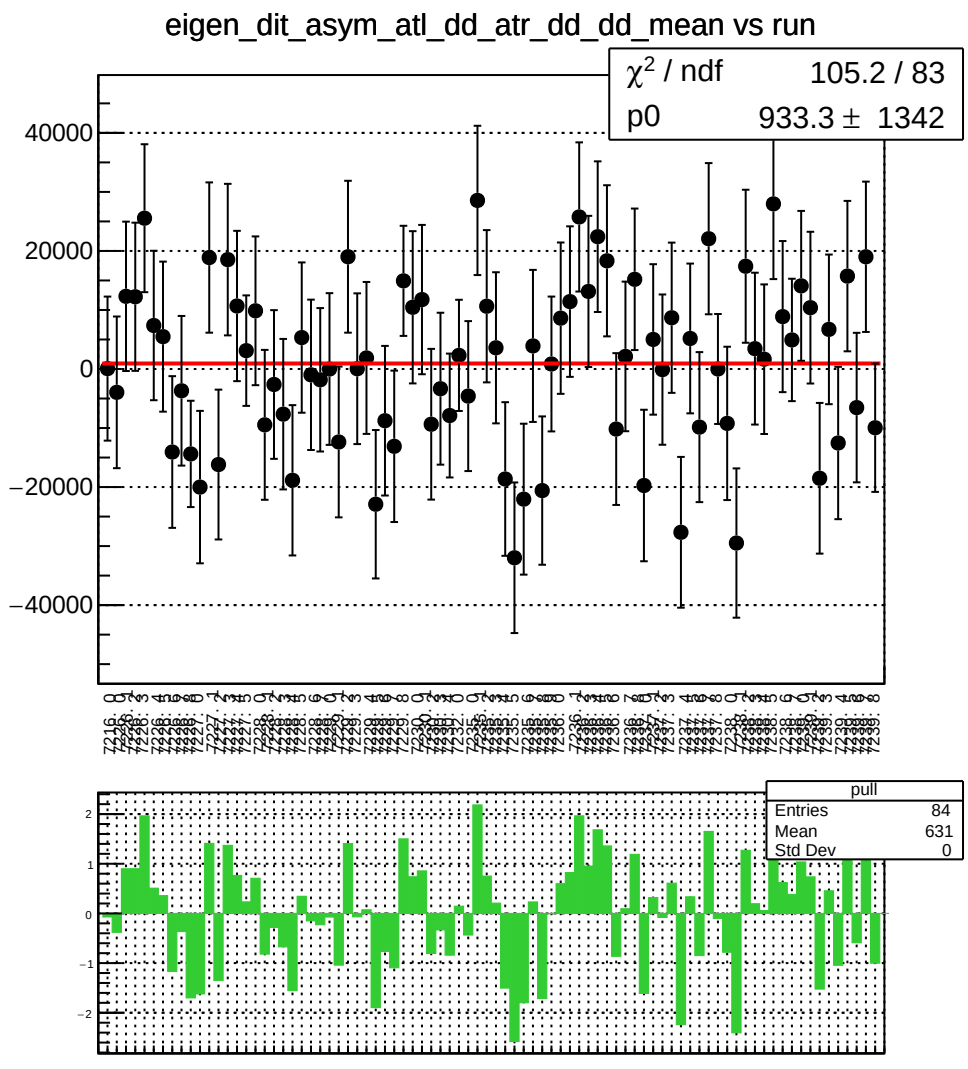

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 105.2 / 83
p0 933.3 ± 1342
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 631
Std Dev 0
2
1
0
−1
−2

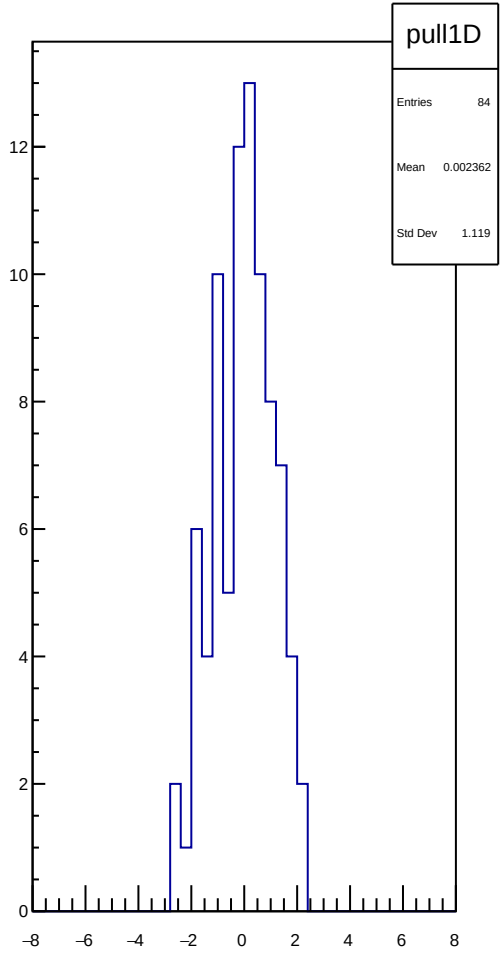

pull1D
Entries 84
Mean 0.002362
Std Dev 1.119
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

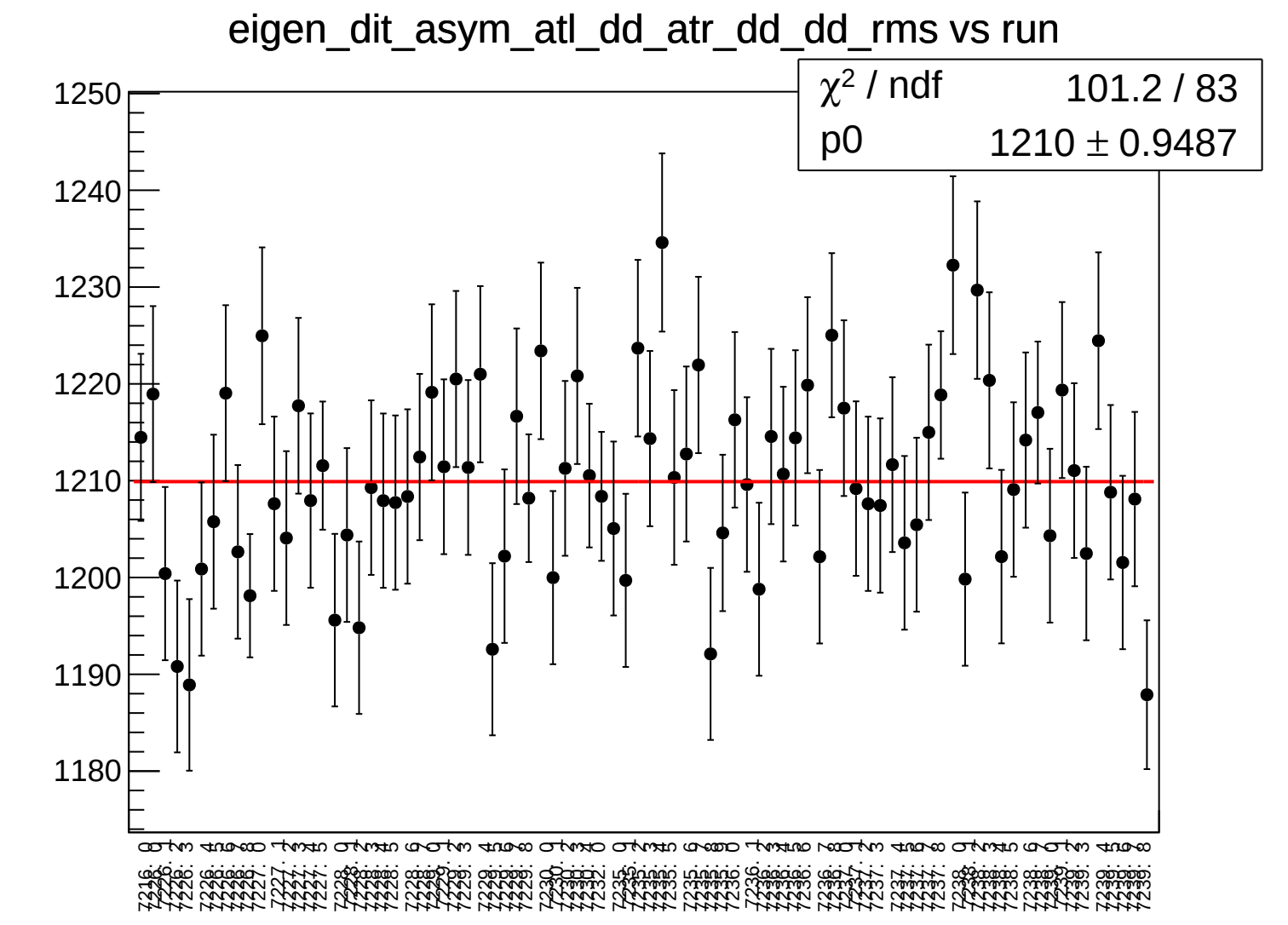

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 101.2 / 83
p0 1210 ± 0.9487
1250
1240
1230
1220
1210
1200
1190
1180

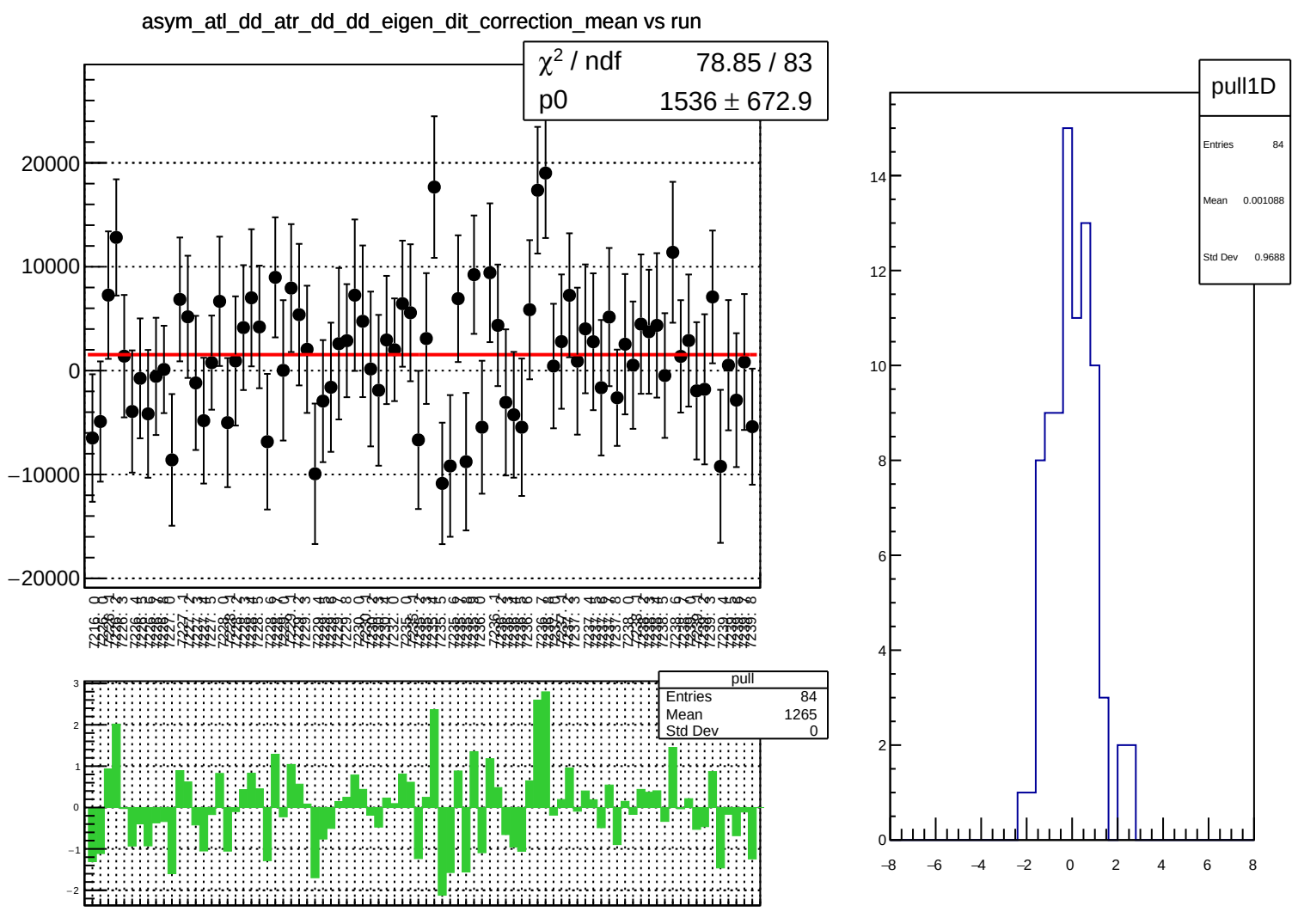

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 78.85 / 83
p0 1536 ± 672.9
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 1265
Std Dev 0
pull1D
Entries 84
Mean 0.001088
Std Dev 0.9688

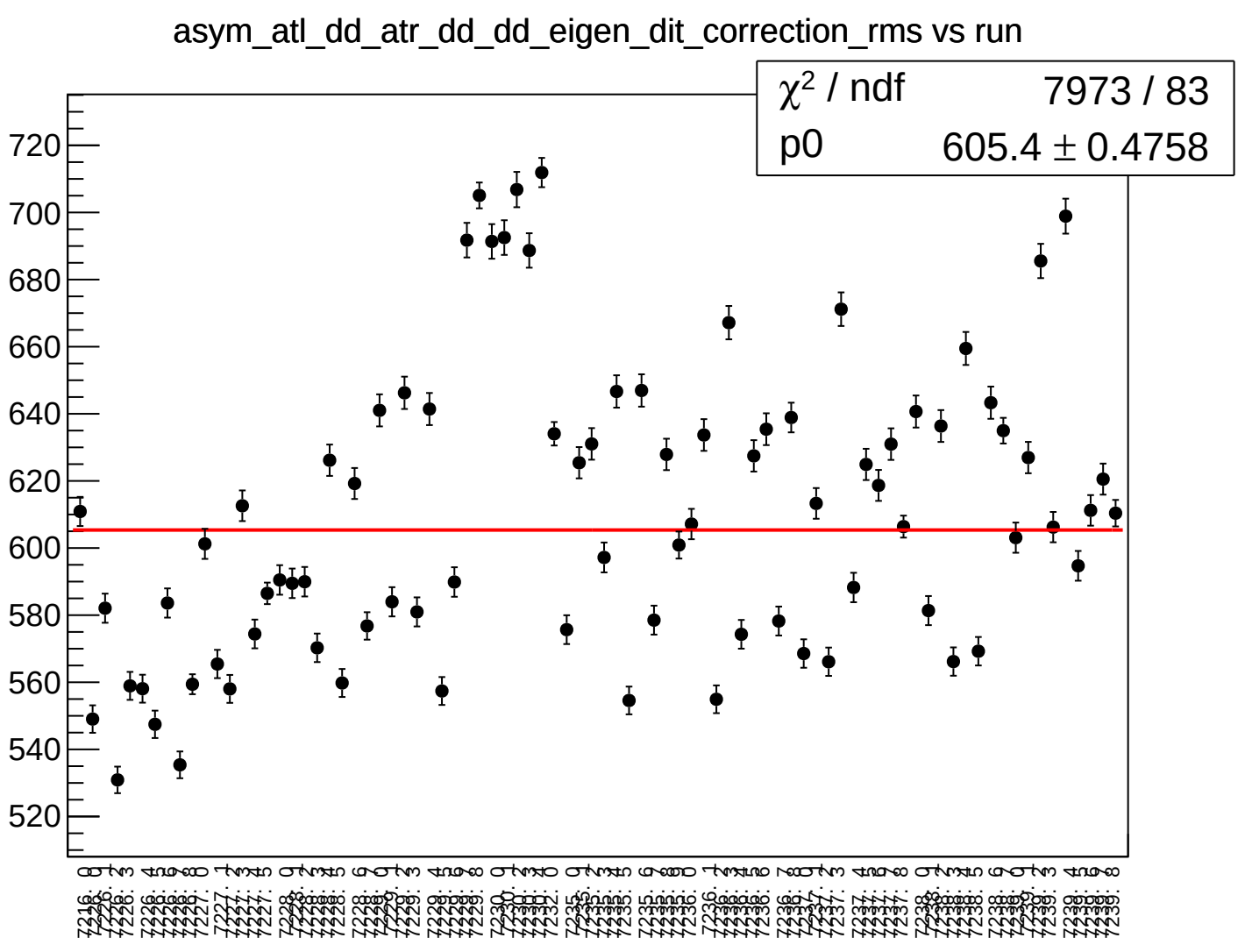

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 7973 / 83
p0 605.4 ± 0.4758
720
700
680
660
640
620
600
580
560
540
520

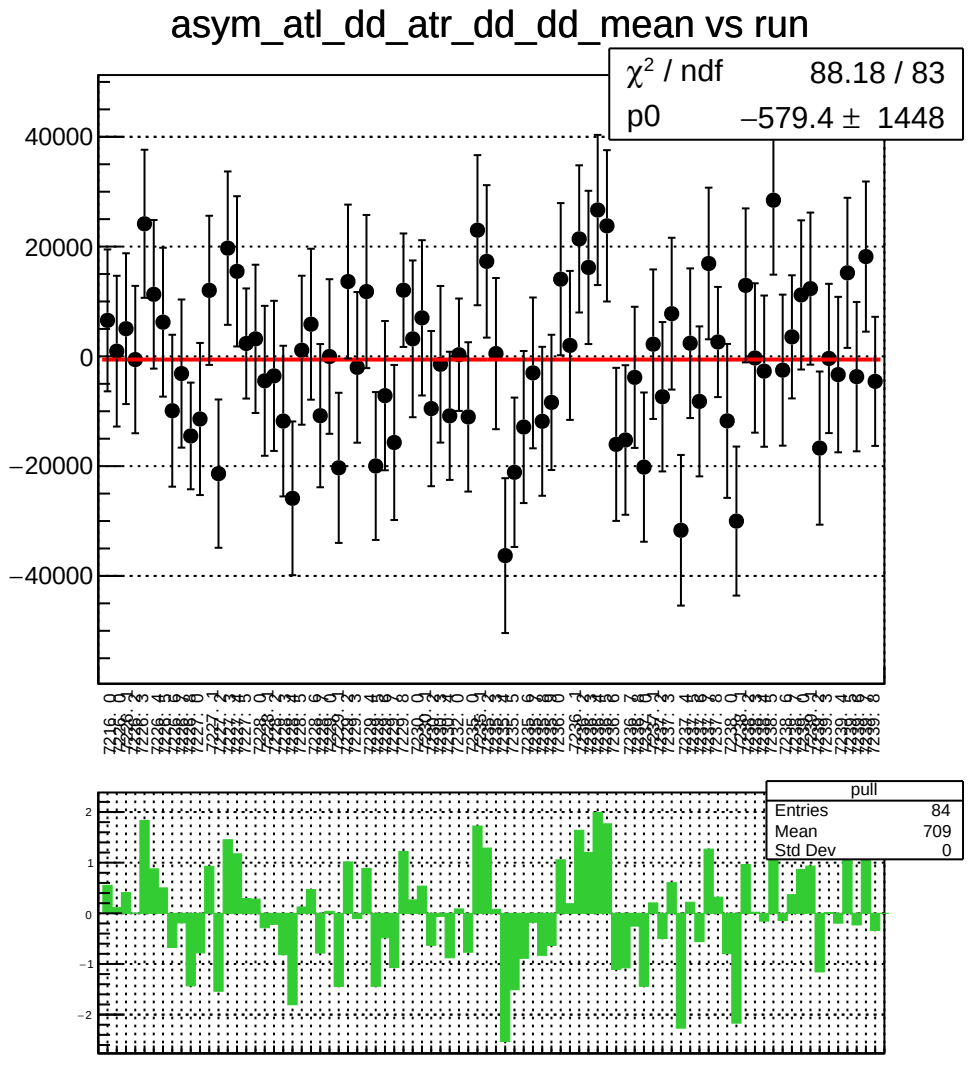

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 105.2 / 83
p0 933.3 ± 1342
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 631
Std Dev 0
2
1
0
−1
−2

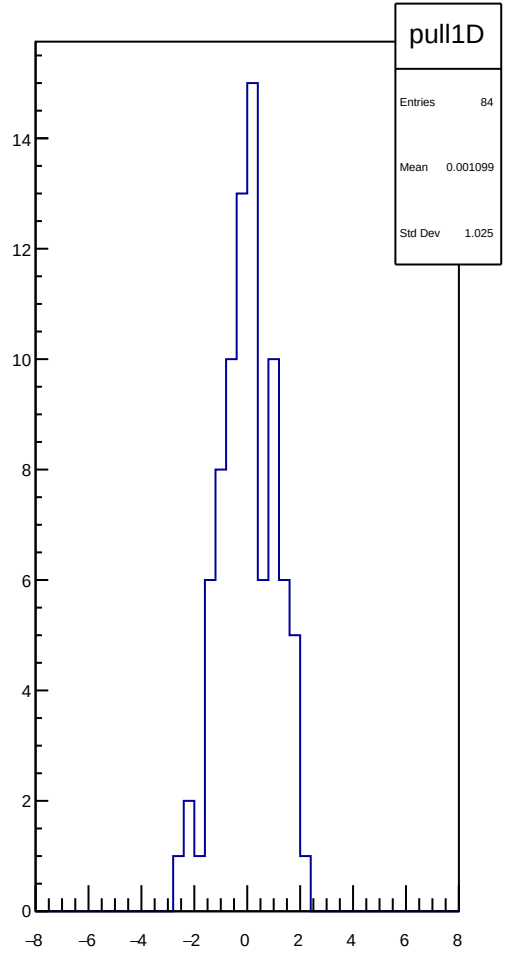

pull1D
Entries 84
Mean 0.002362
Std Dev 1.119
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

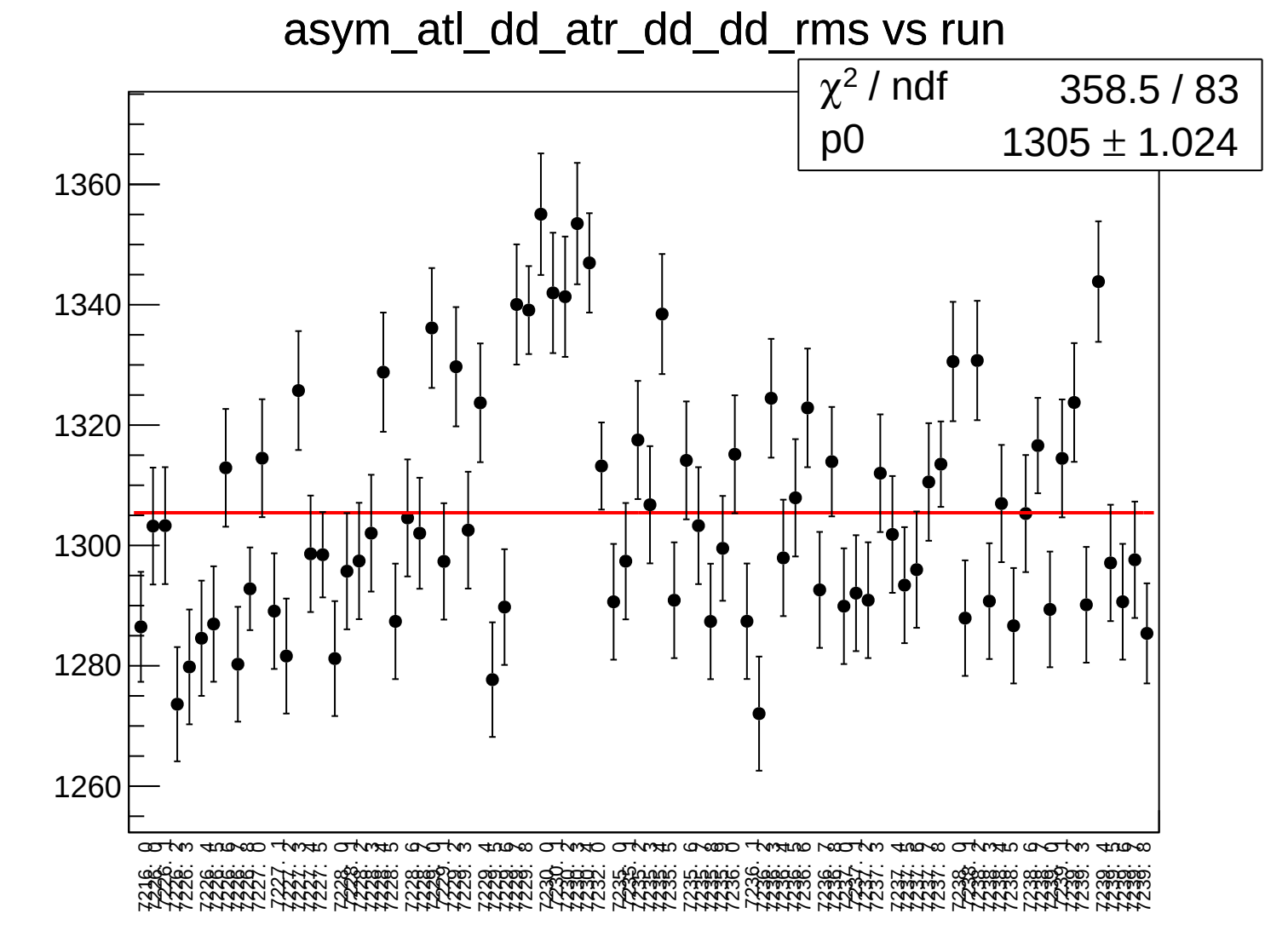

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 101.2 / 83
p0 1210 ± 0.9487
1250
1240
1230
1220
1210
1200
1190
1180

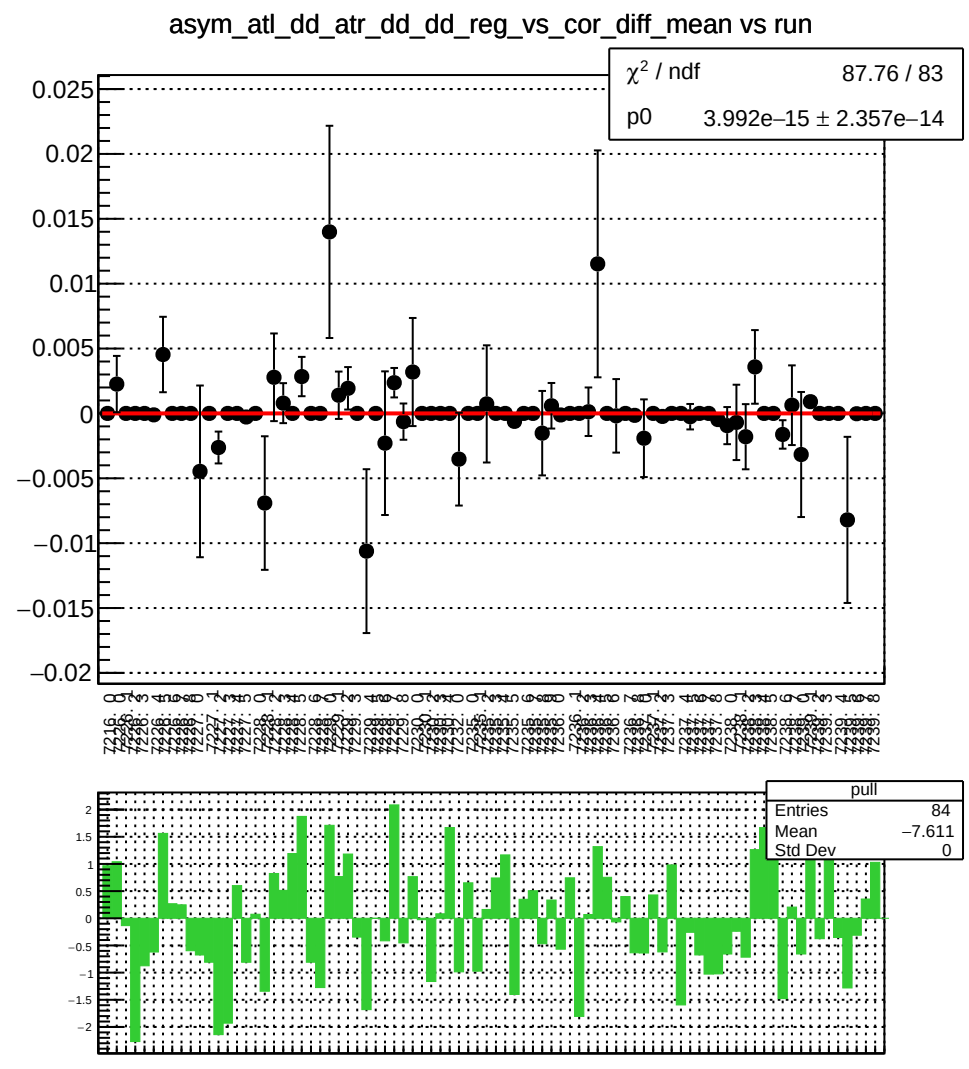

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 78.85 / 83
p0 1536 ± 672.9
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 1265
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.001088
Std Dev 0.9688
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

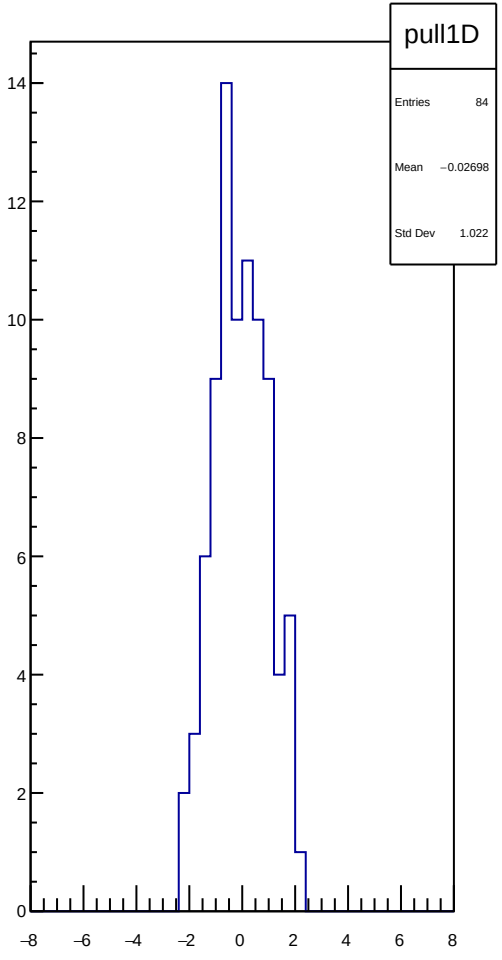

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 7973 / 83
p0 605.4 ± 0.4758
720
700
680
660
640
620
600
580
560
540
520

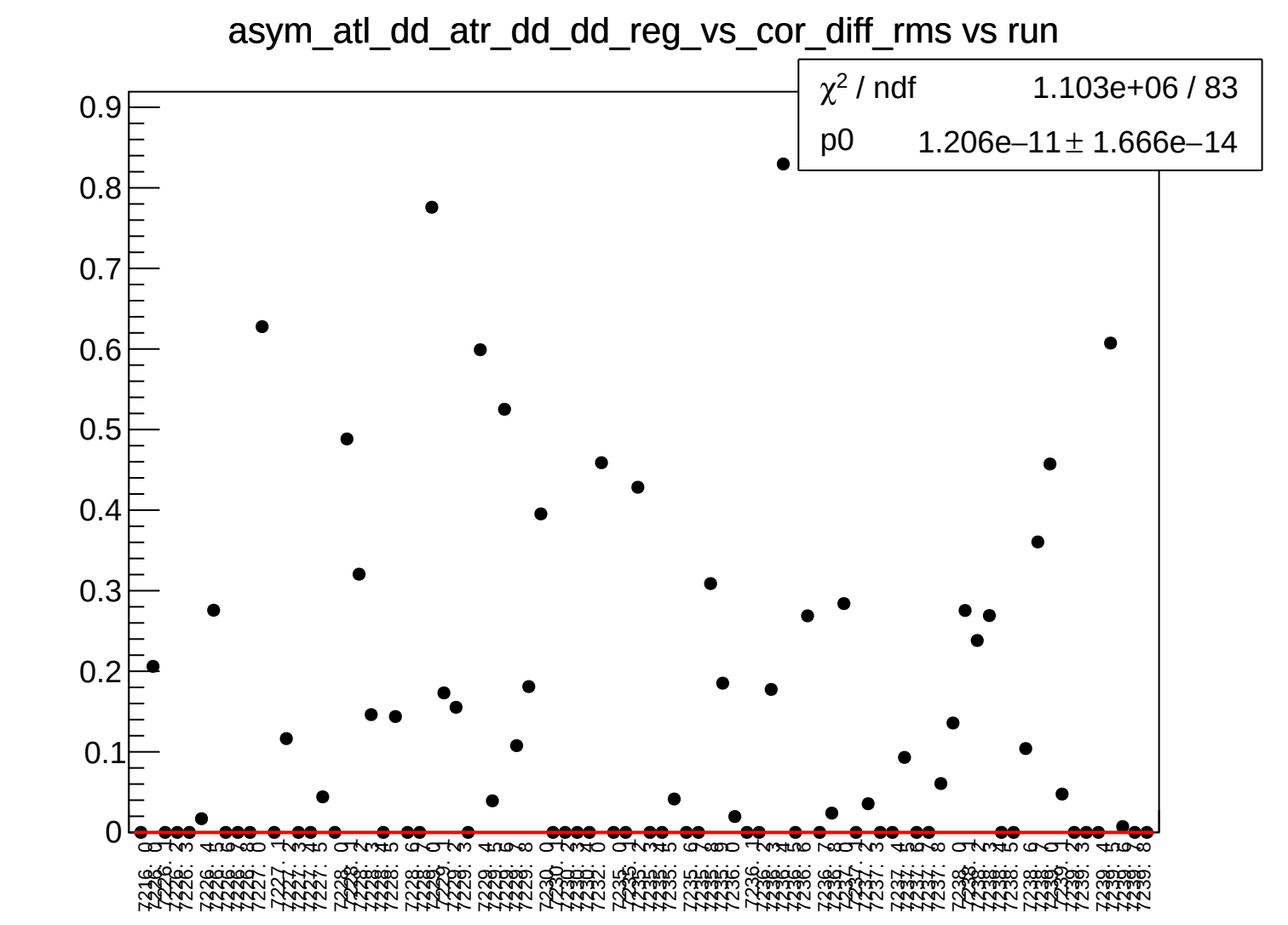

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 88.18 / 83
p0 −579.4 ± 1448
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 709
Std Dev 0
2
1
0
−1
−2

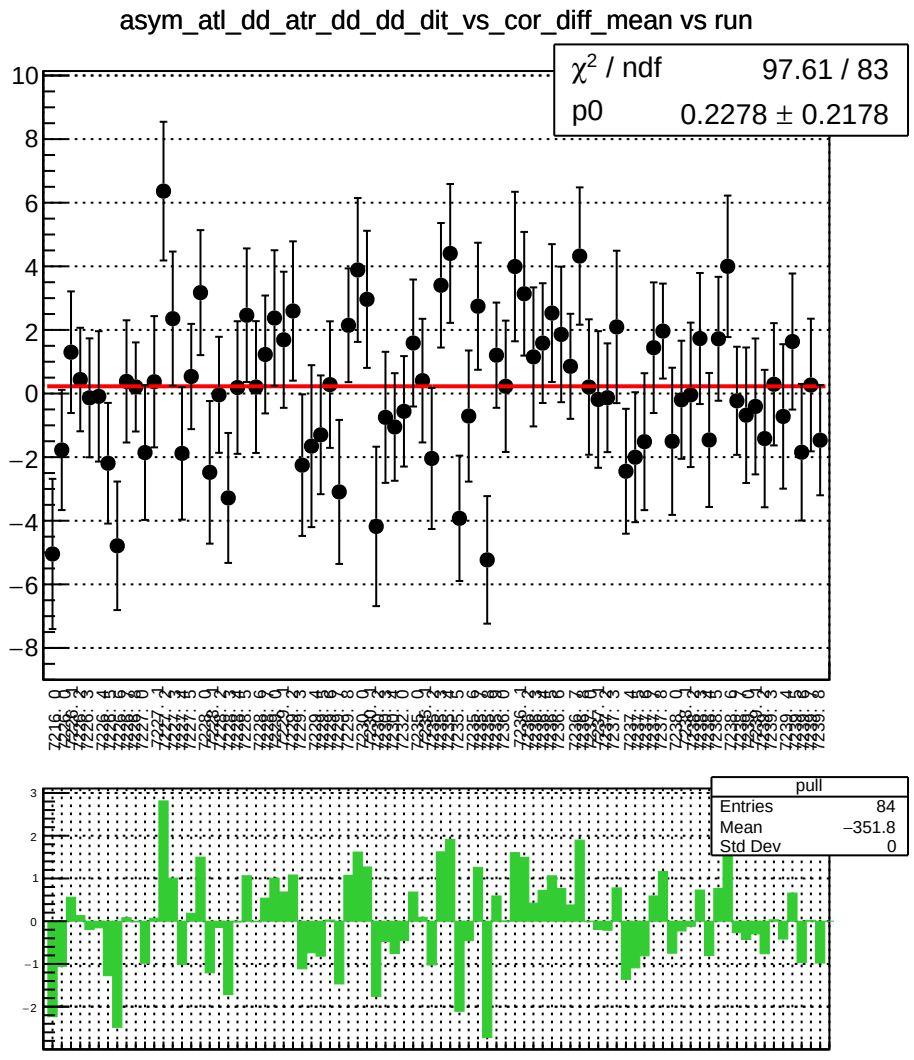

pull1D
Entries 84
Mean 0.001099
Std Dev 1.025
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

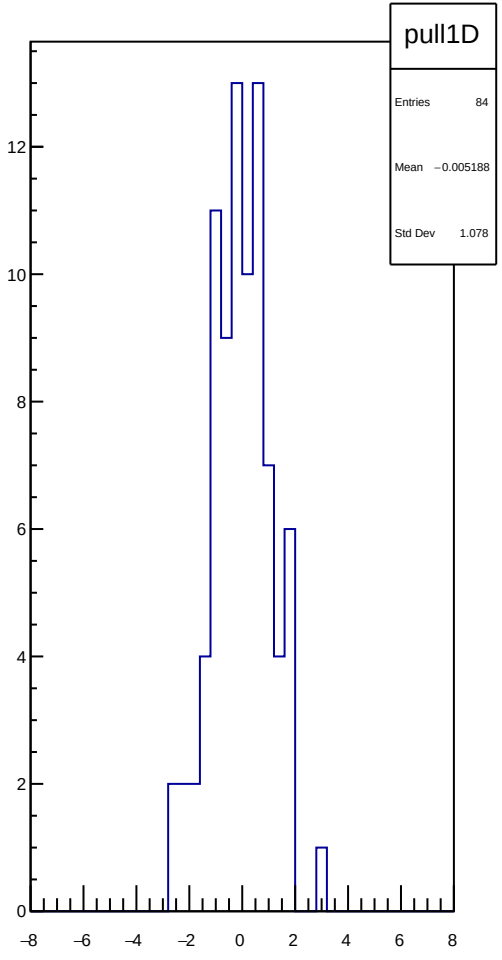

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 358.5 / 83
p0 1305 ± 1.024
1360
1340
1320
1300
1280
1260

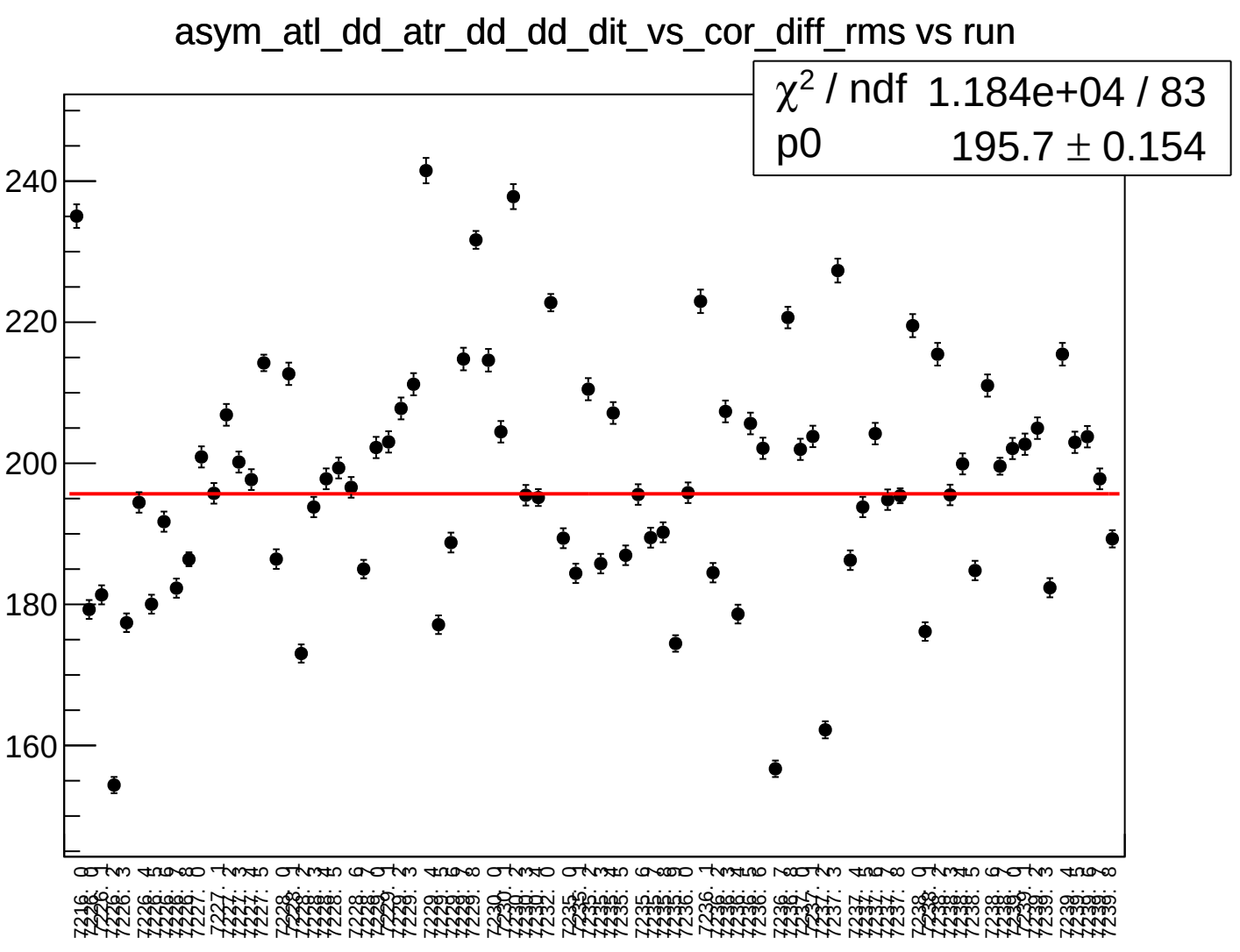

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 87.76 / 83
p0 3.992e−15 ± 2.357e−14
pull
Entries 84
Mean −7.611
Std Dev 0

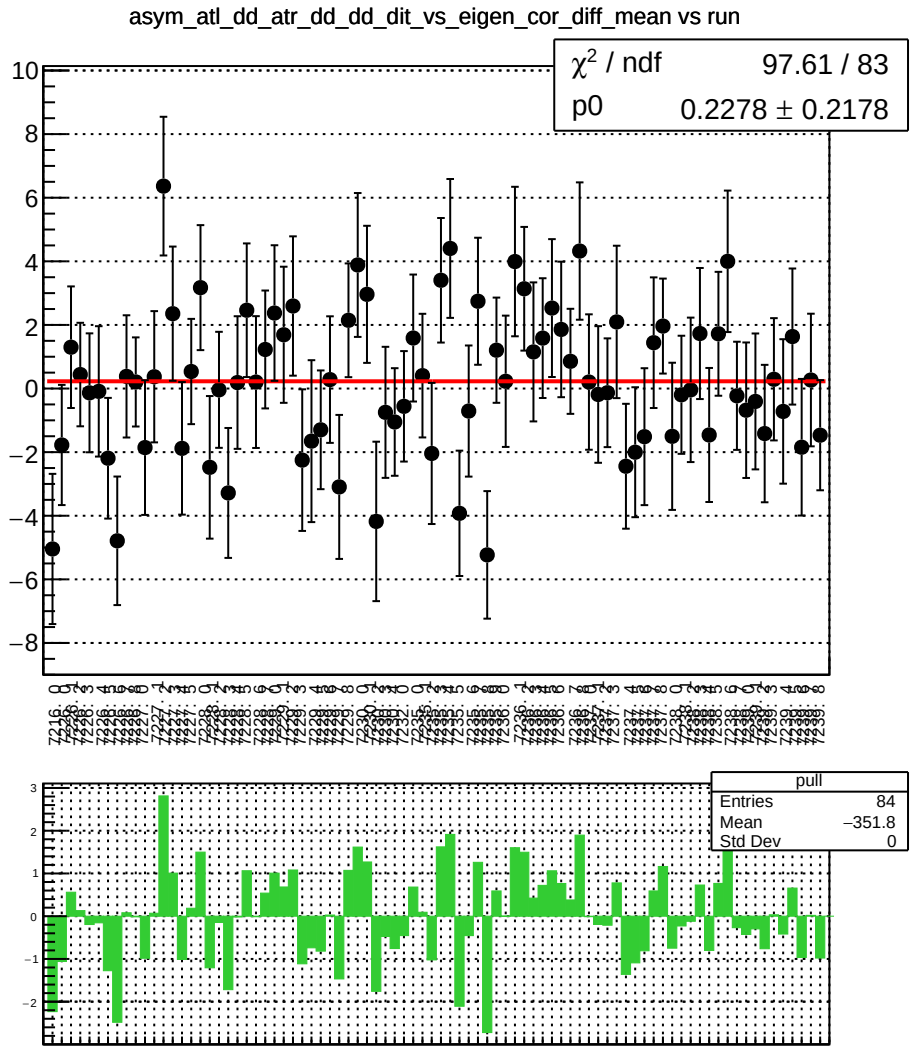

pull1D
Entries 84
Mean −0.02698
Std Dev 1.022

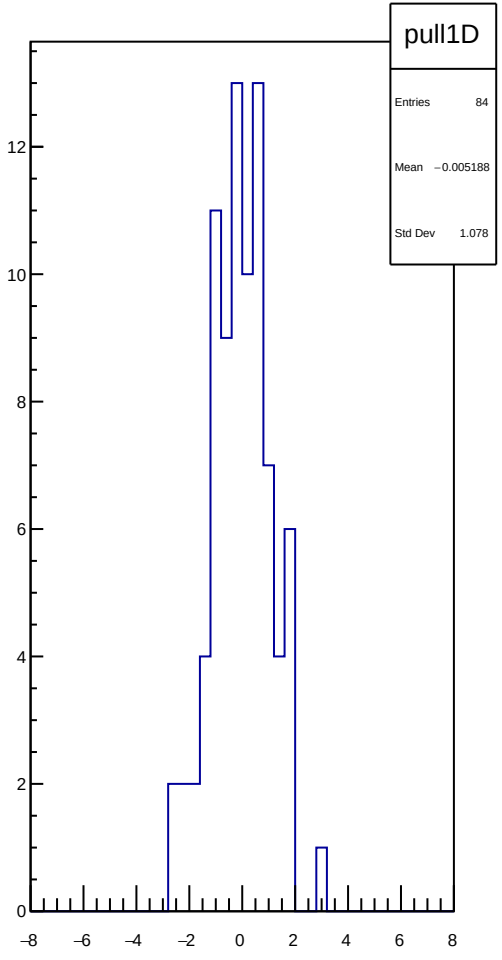

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.103e+06 / 83
p0 1.206e−11 ± 1.666e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

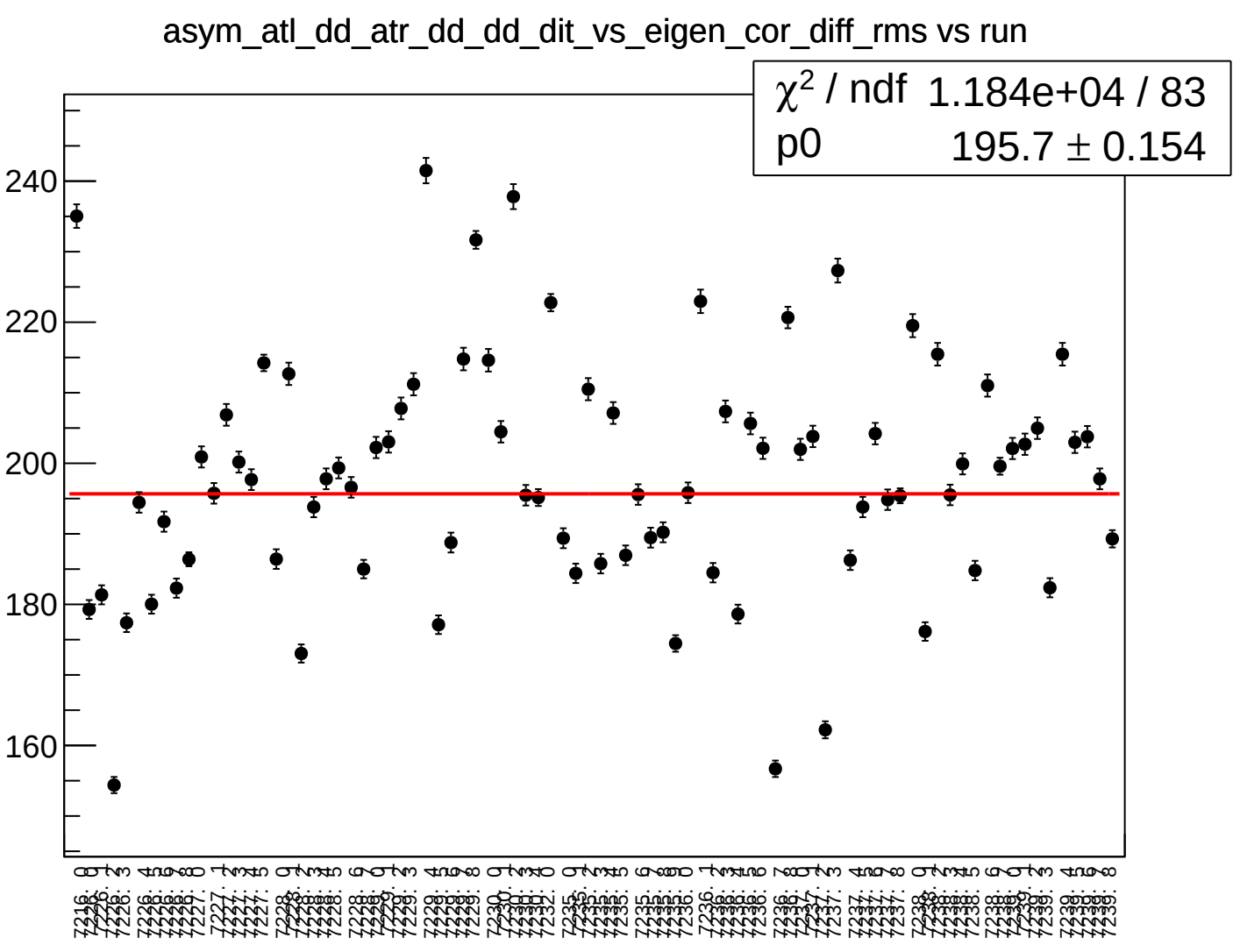

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 97.61 / 83
p0 0.2278 ± 0.2178
pull
Entries 84
Mean −351.8
Std Dev 0

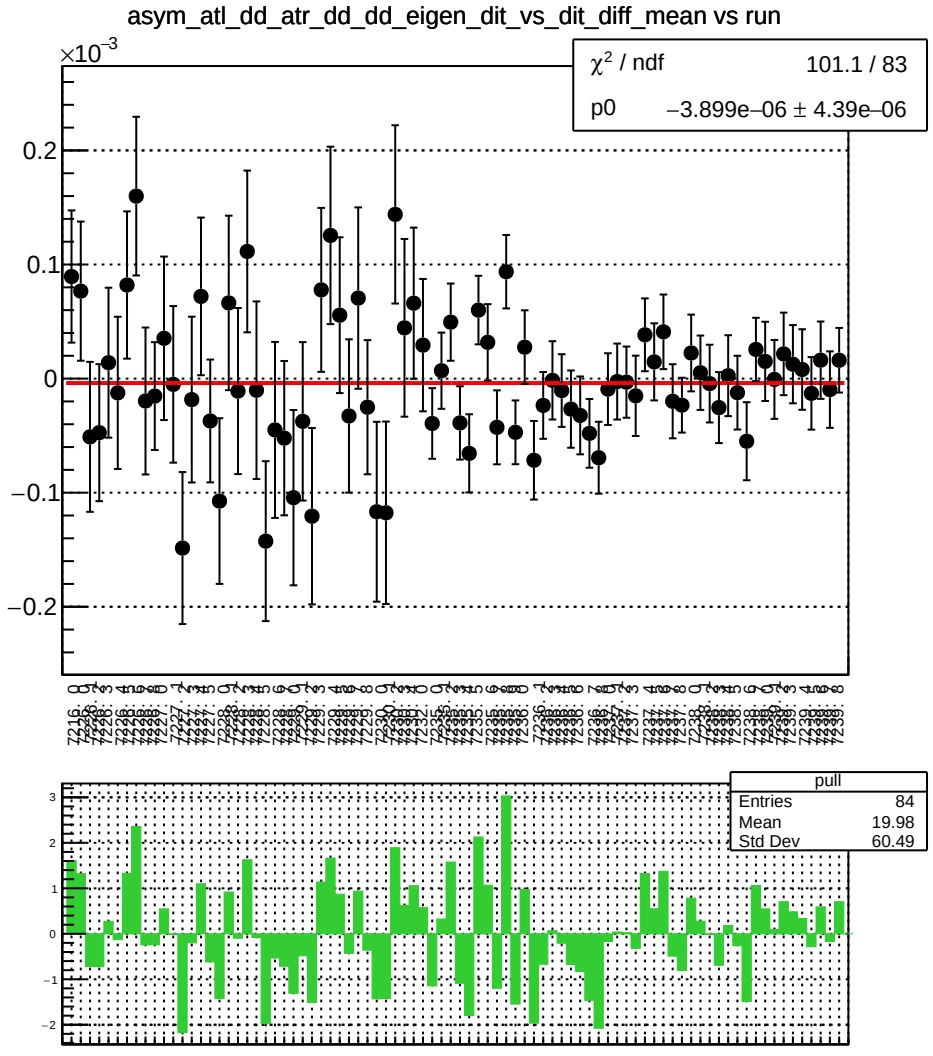

pull1D
Entries 84
Mean −0.005188
Std Dev 1.078

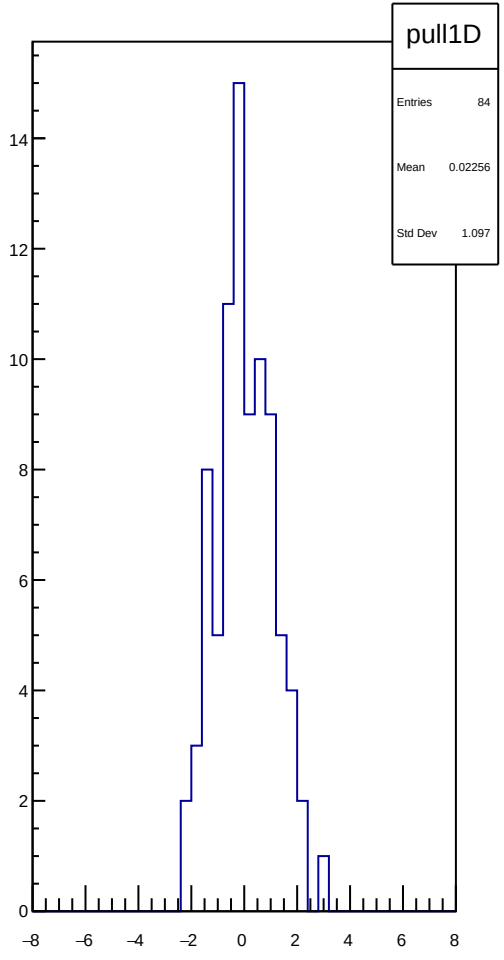

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.184e+04 / 83
p0 195.7 ± 0.154
240
220
200
180
160

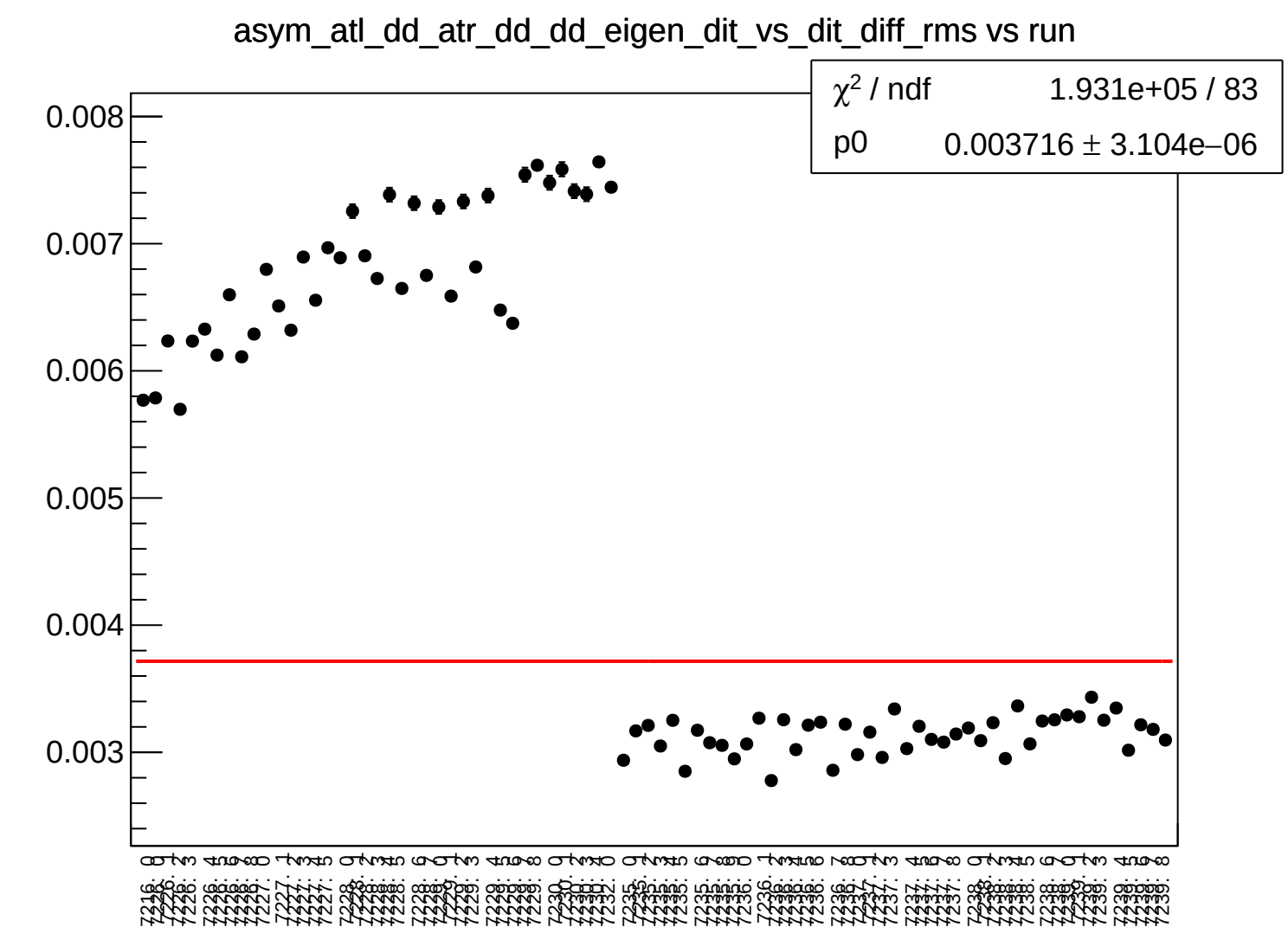

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.61 / 83
p0 0.2278 ± 0.2178
pull
Entries 84
Mean −351.8
Std Dev 0

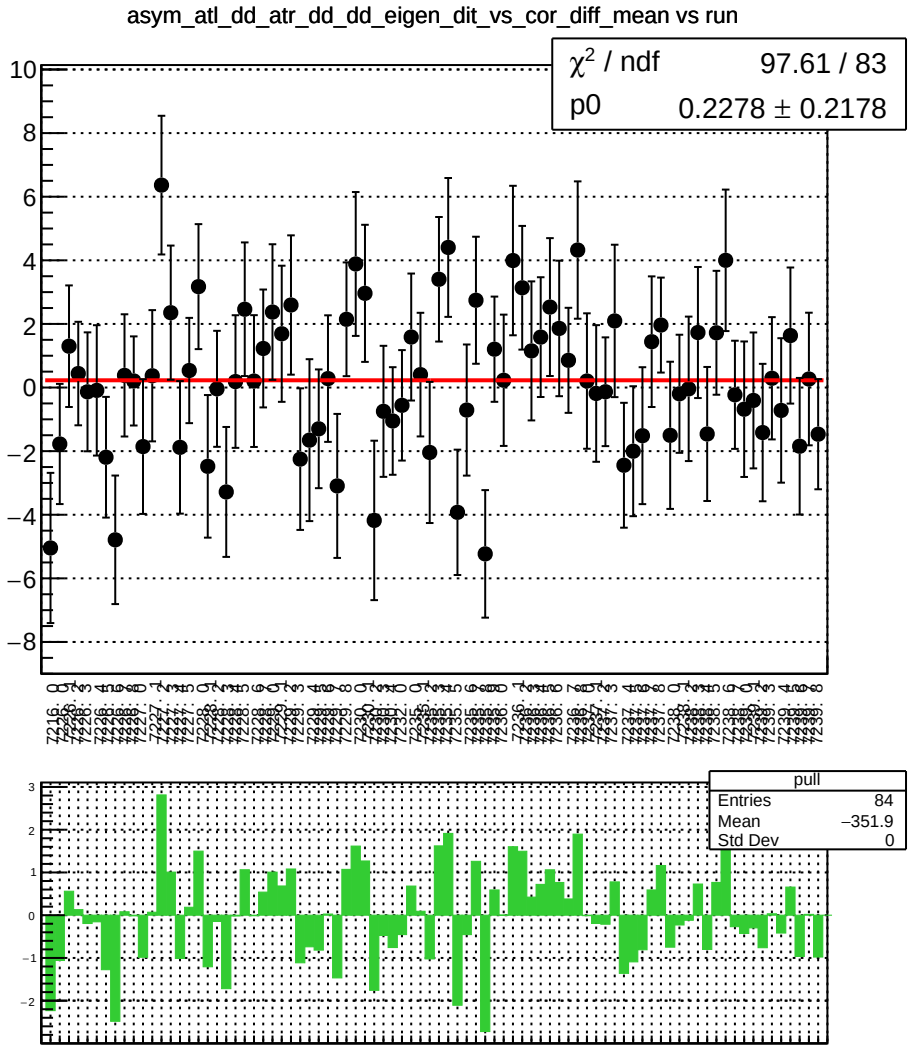

pull1D
Entries 84
Mean −0.005188
Std Dev 1.078

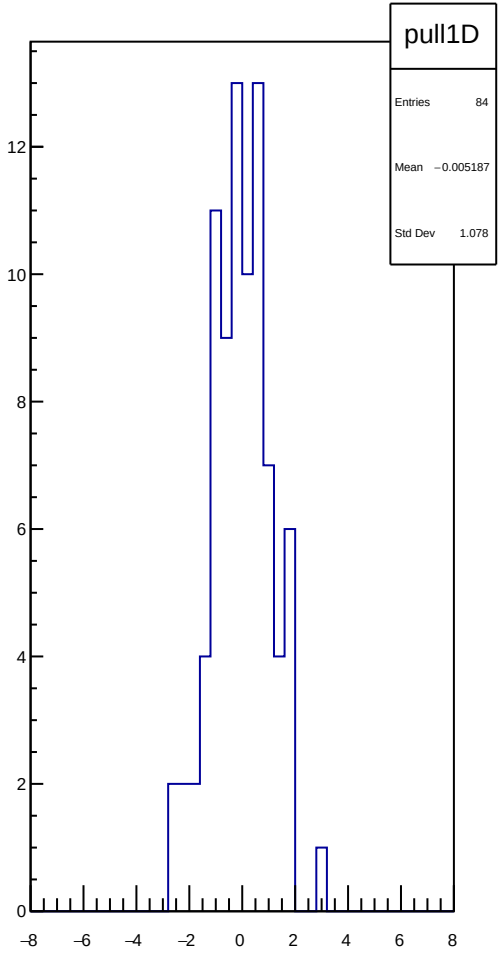

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.184e+04 / 83
p0 195.7 ± 0.154
240
220
200
180
160

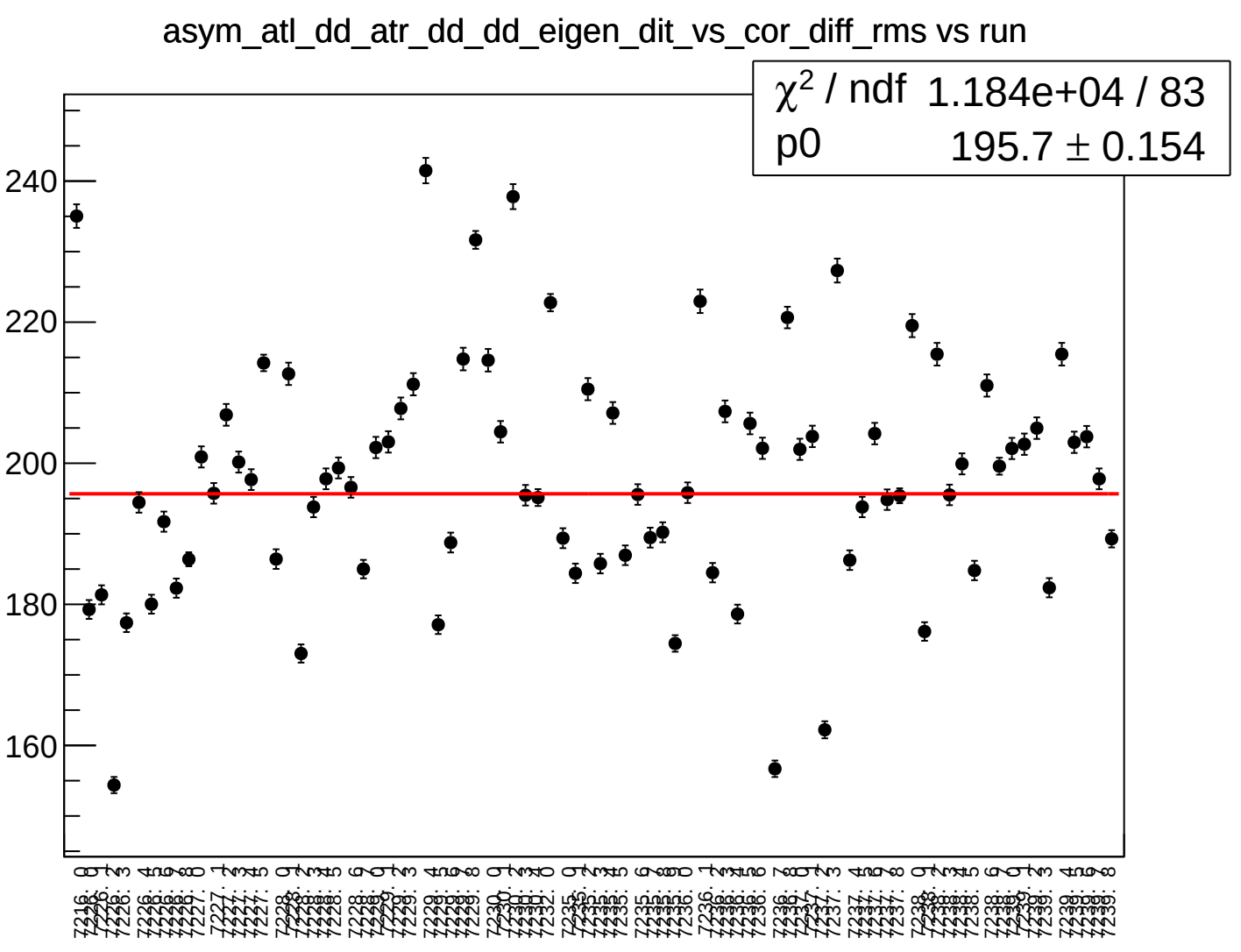

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.1 / 83
p0 −3.899e−06 ± 4.39e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 84
Mean 19.98
Std Dev 60.49
3
2
1
0
−1
−2

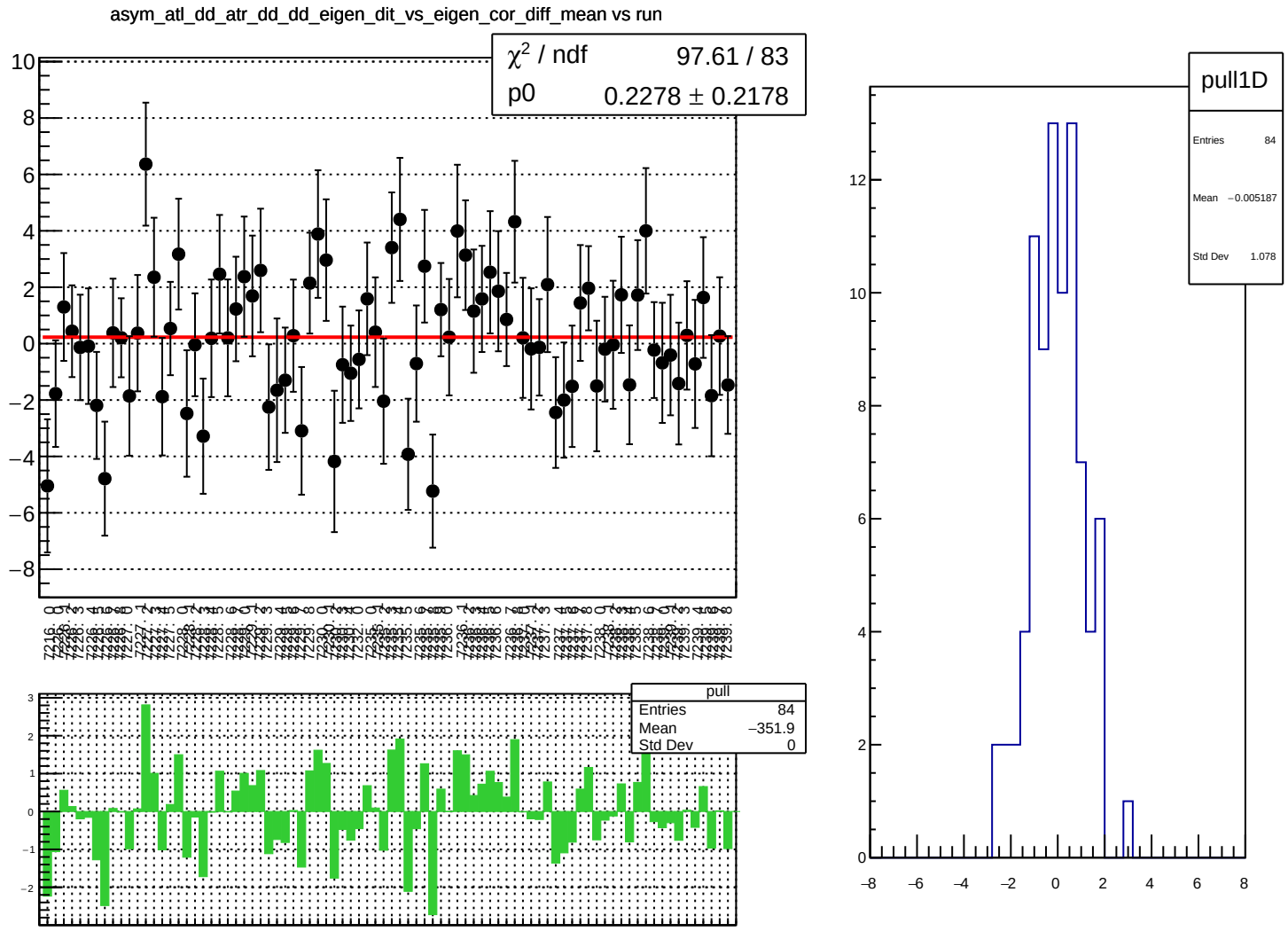

pull1D
Entries 84
Mean 0.02256
Std Dev 1.097
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

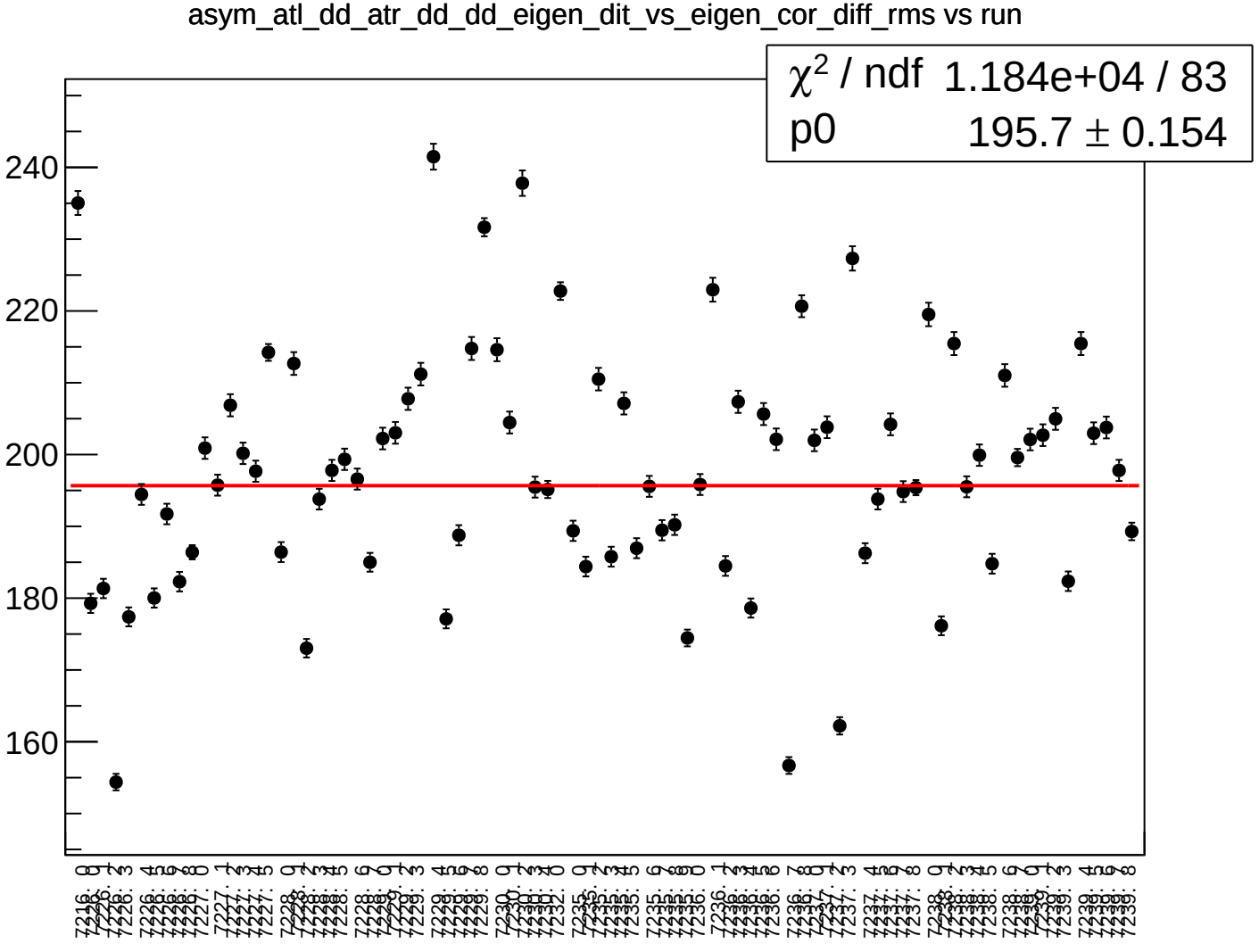

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.931e+05 / 83
p0 0.003716 ± 3.104e−06
0.008
0.007
0.006
0.005
0.004
0.003

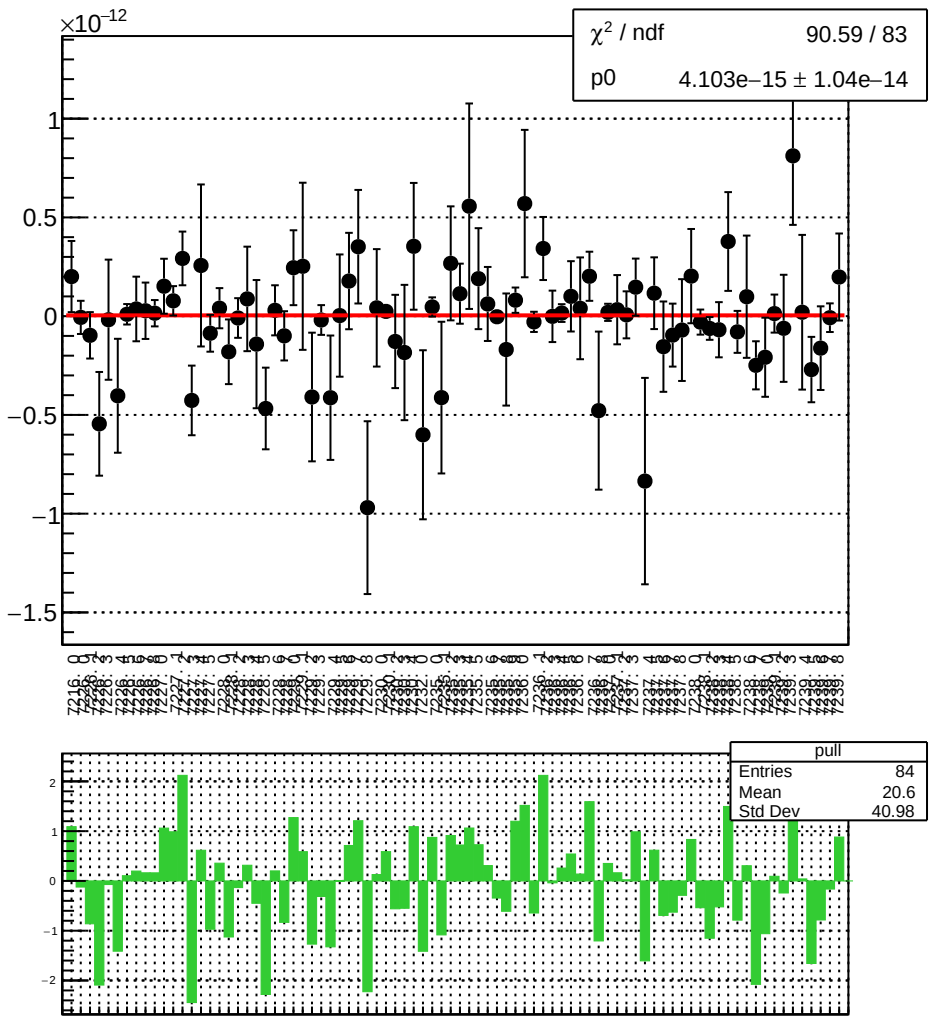

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.61 / 83
p0 0.2278 ± 0.2178
pull
Entries 84
Mean −351.9
Std Dev 0

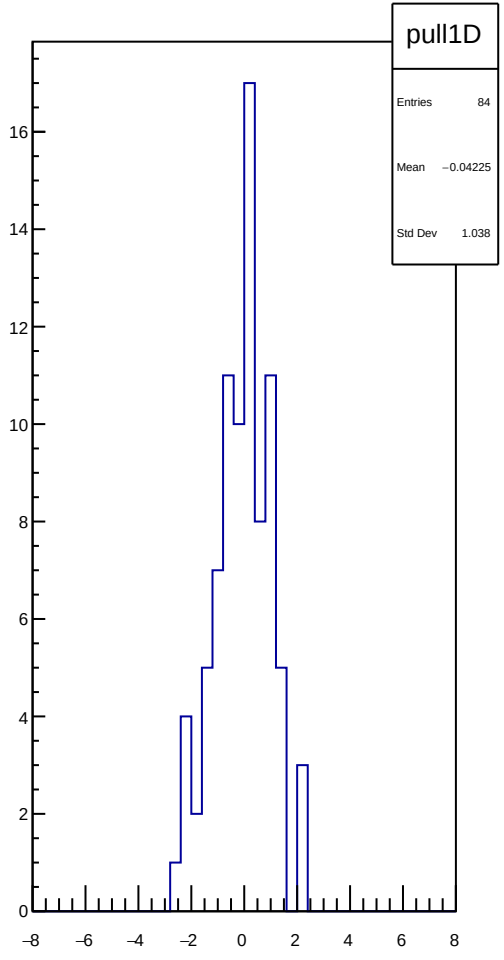

pull1D
Entries 84
Mean −0.005187
Std Dev 1.078

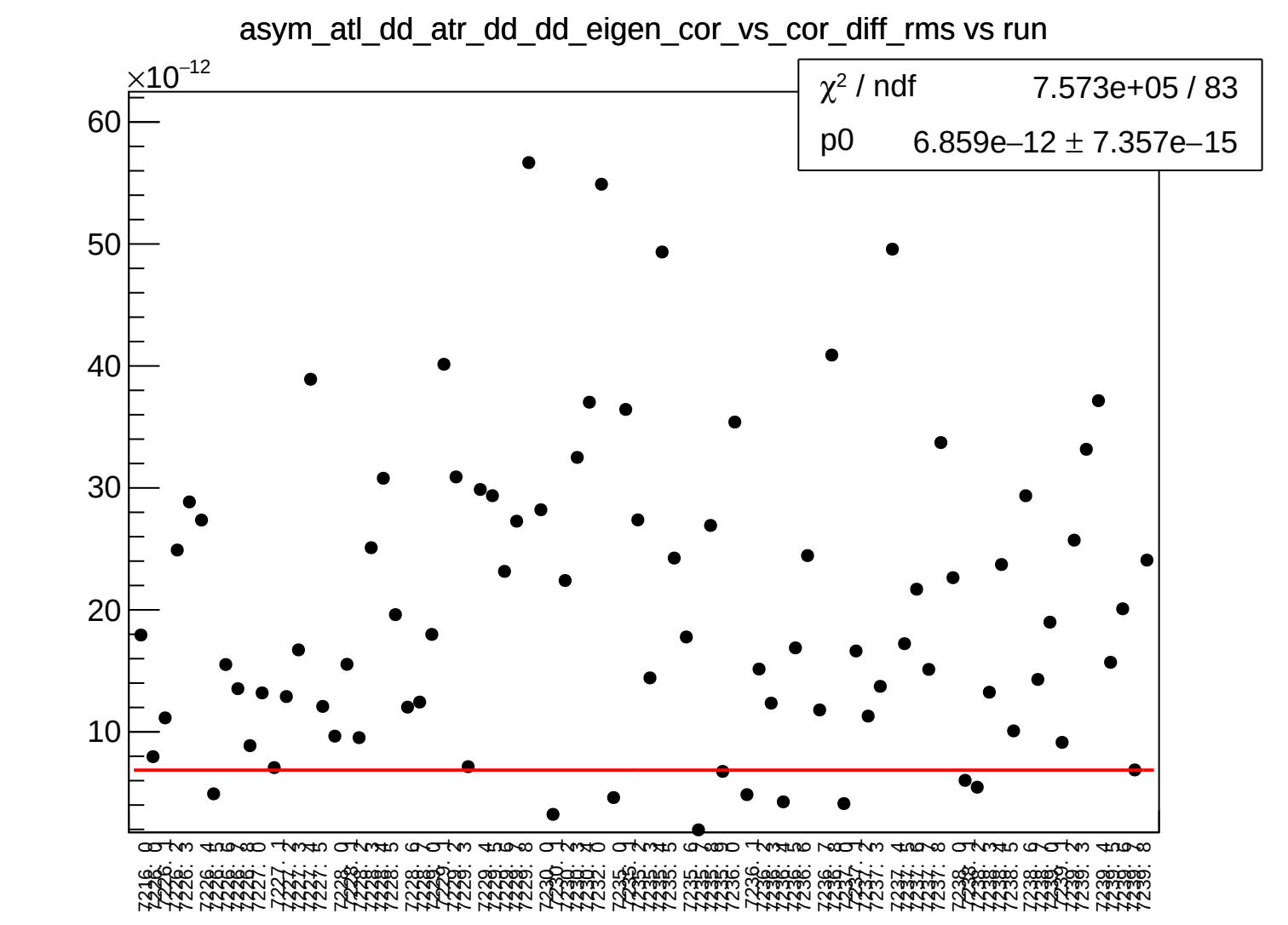

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.184e+04 / 83
p0 195.7 ± 0.154
240
220
200
180
160

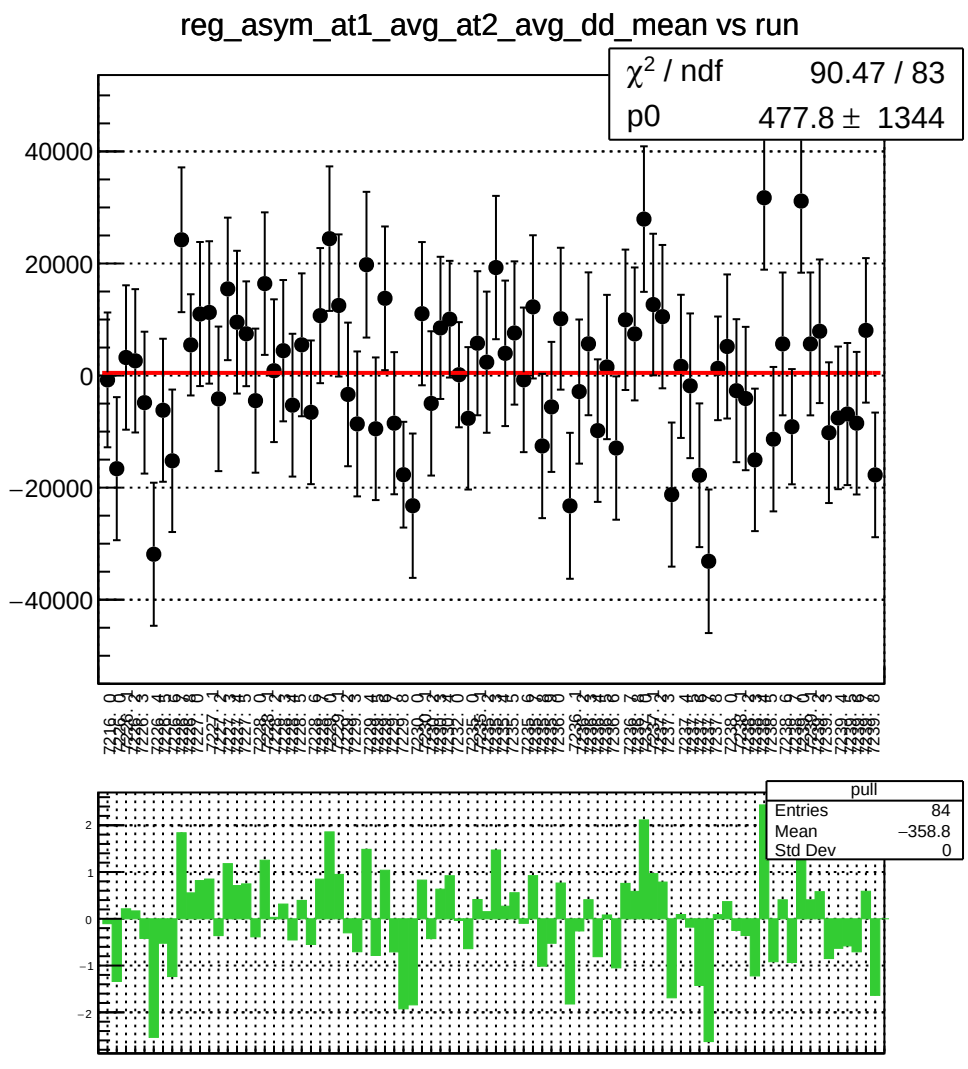

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.61 / 83
p0 0.2278 ± 0.2178
pull
Entries 84
Mean −351.9
Std Dev 0
pull1D
Entries 84
Mean −0.005187
Std Dev 1.078

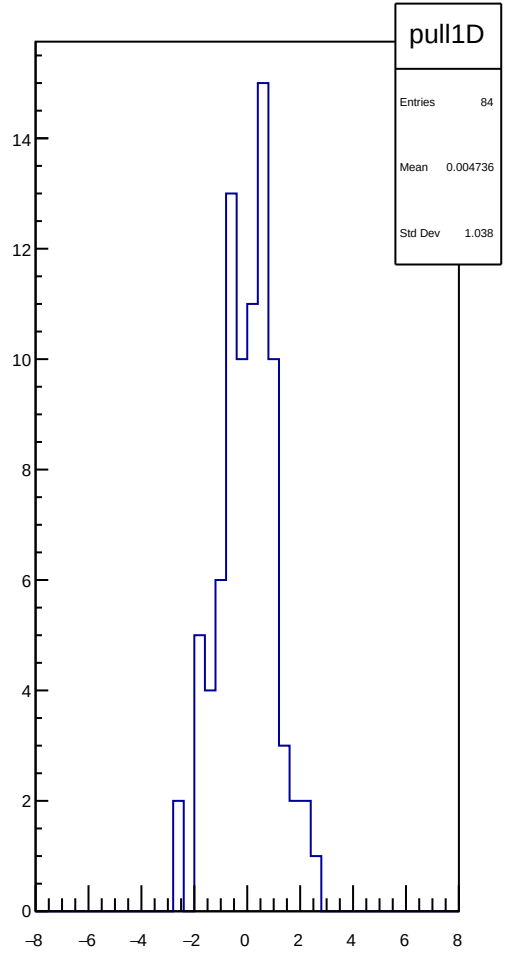

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.184e+04 / 83
p0 195.7 ± 0.154
240
220
200
180
160

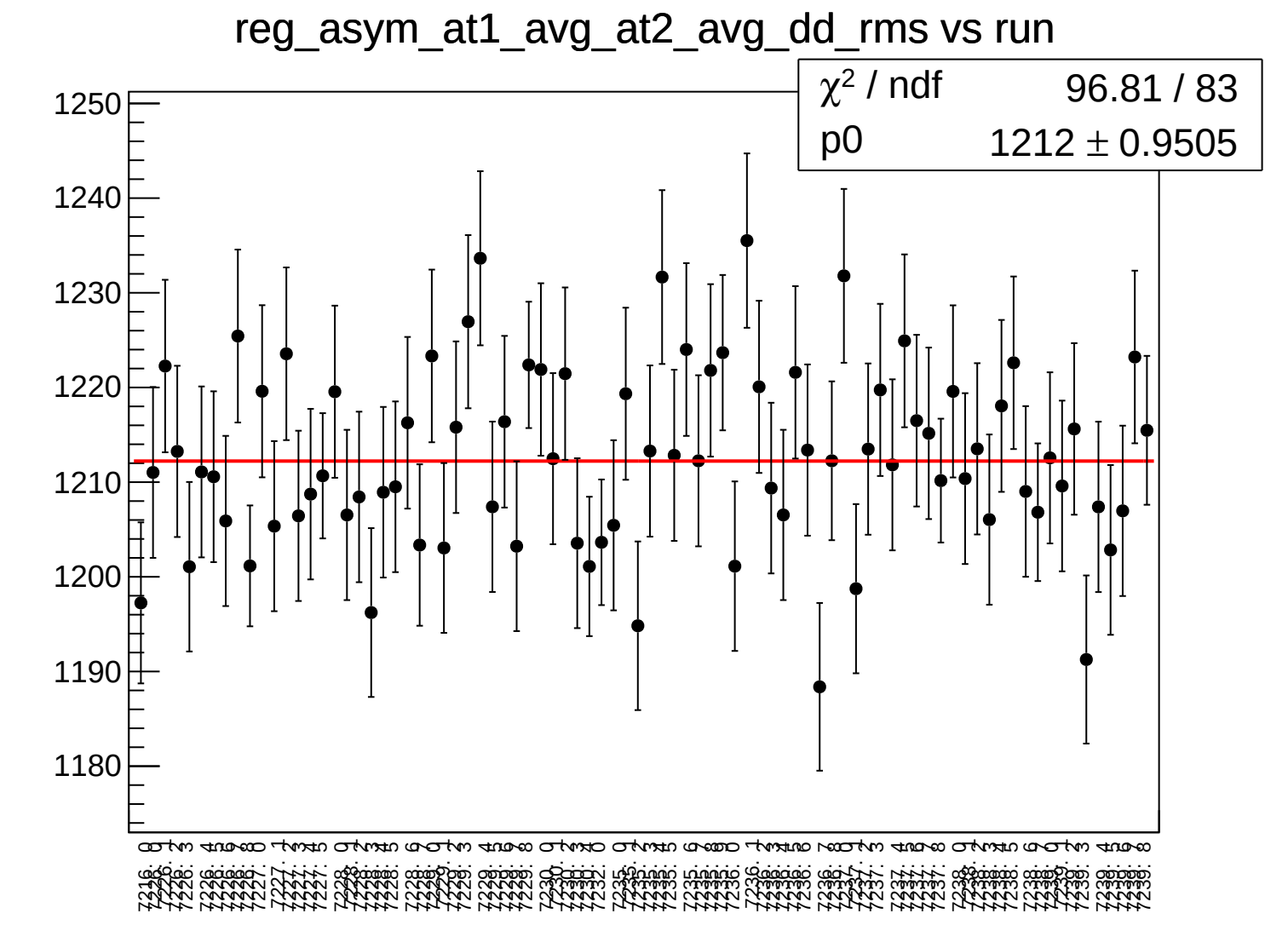

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.59 / 83
p0 4.103e−15 ± 1.04e−14
pull
Entries 84
Mean 20.6
Std Dev 40.98

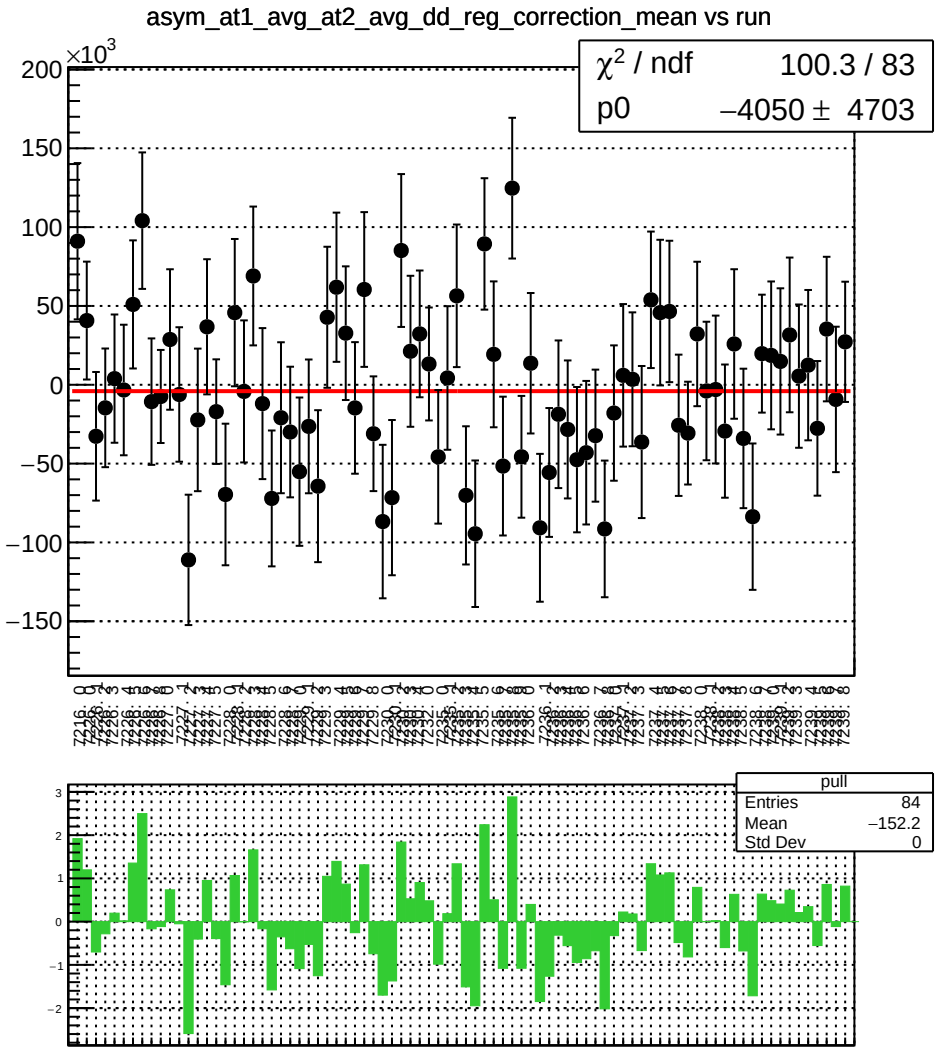

pull1D
Entries 84
Mean −0.04225
Std Dev 1.038

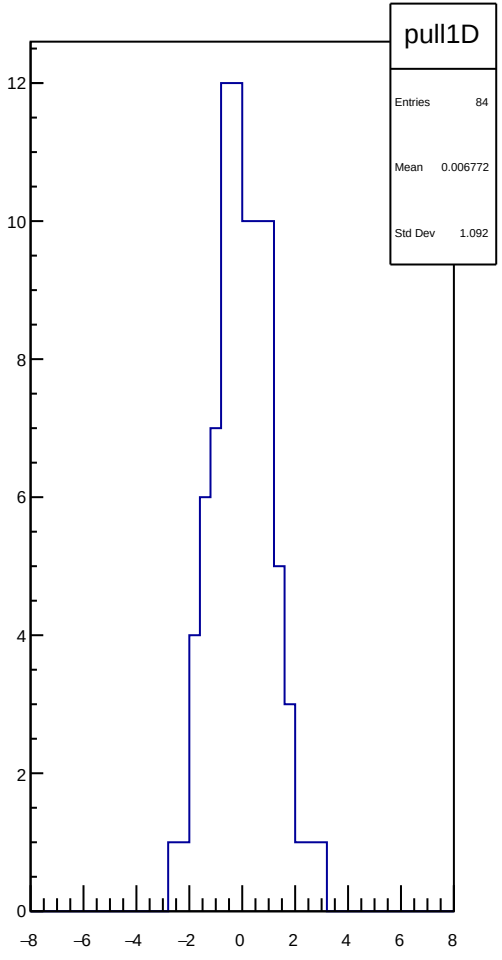

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.573e+05 / 83
p0 6.859e−12 ± 7.357e−15
60
50
40
30
20
10

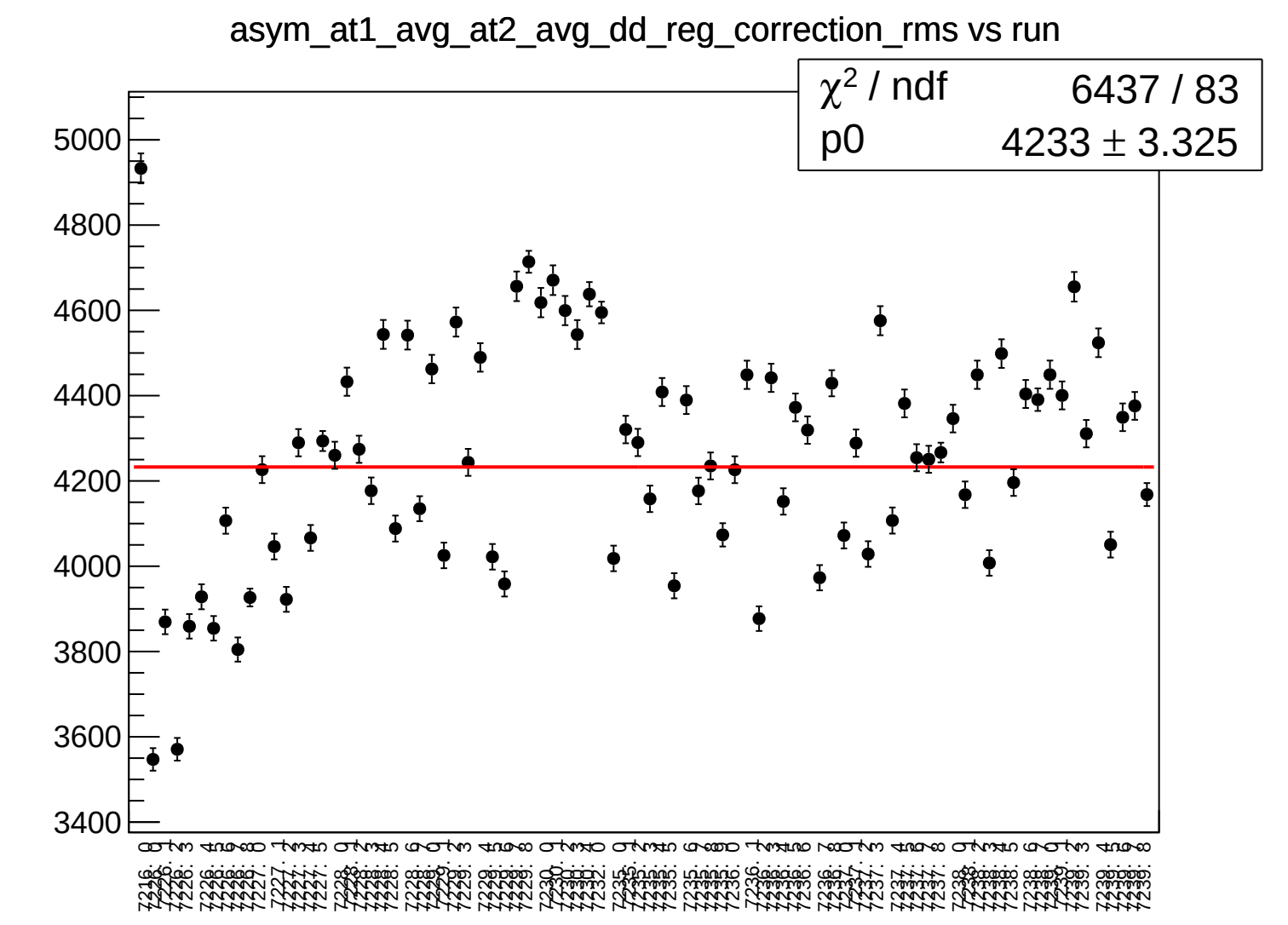

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 90.47 / 83
p0 477.8 ± 1344
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −358.8
Std Dev 0
2
1
0
−1
−2

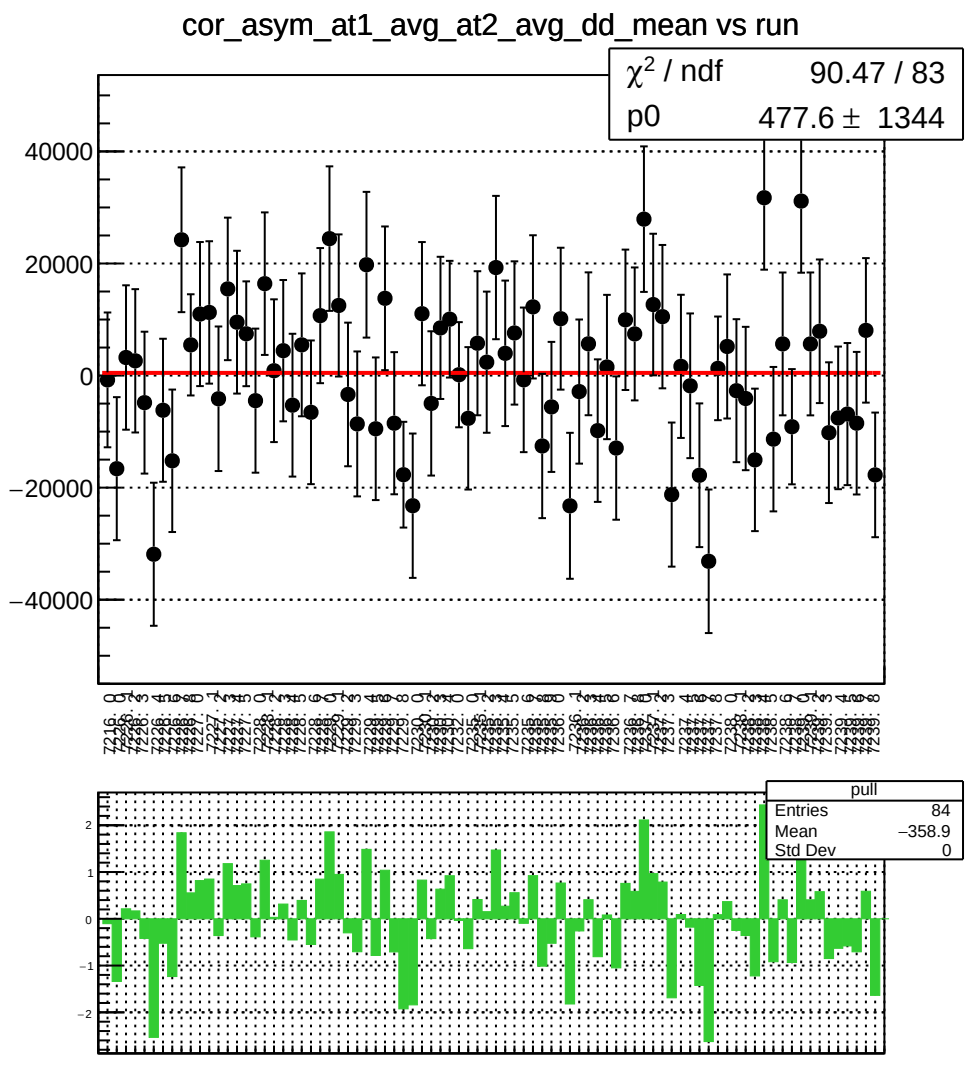

pull1D
Entries 84
Mean 0.004736
Std Dev 1.038
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

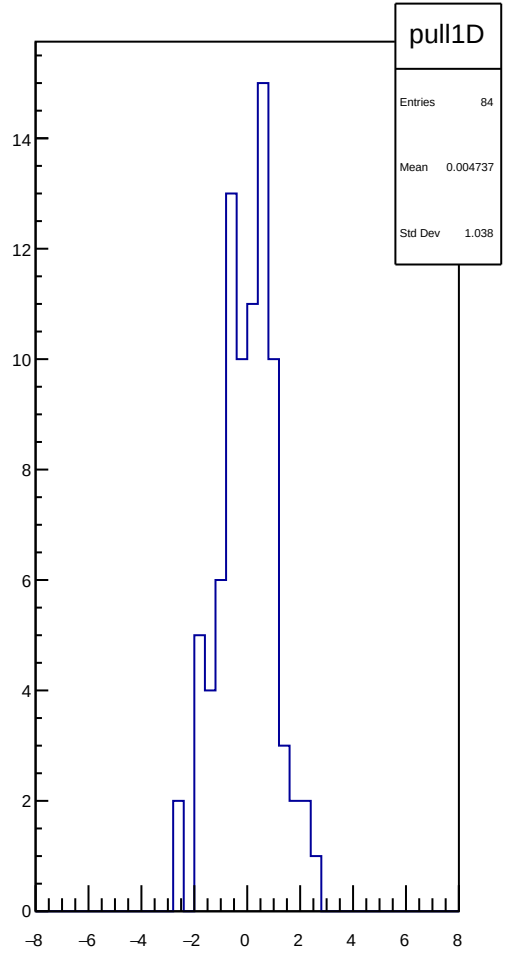

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 96.81 / 83
p0 1212 ± 0.9505
1250
1240
1230
1220
1210
1200
1190
1180

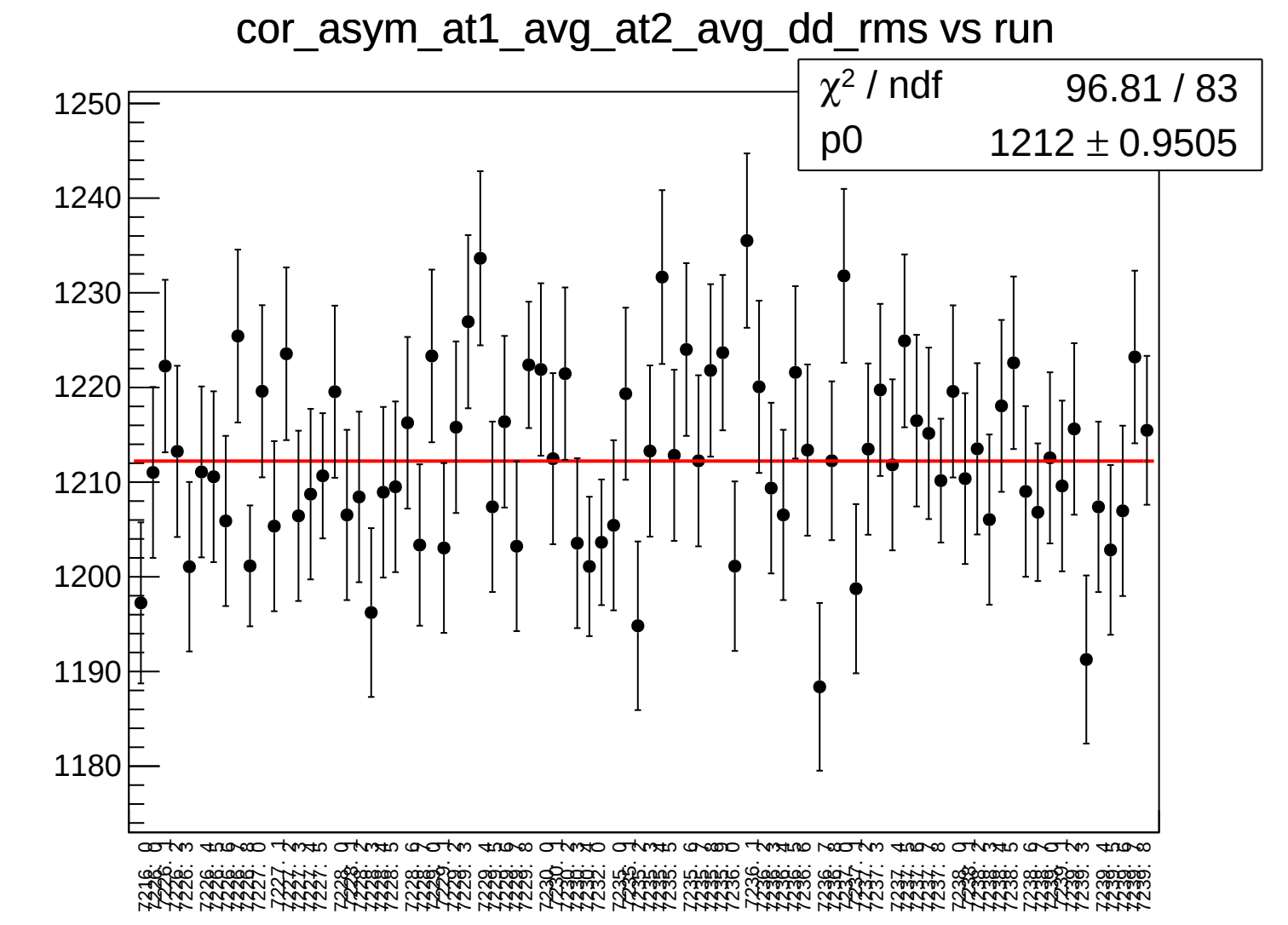

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 100.3 / 83
p0 −4050 ± 4703
pull
Entries 84
Mean −152.2
Std Dev 0

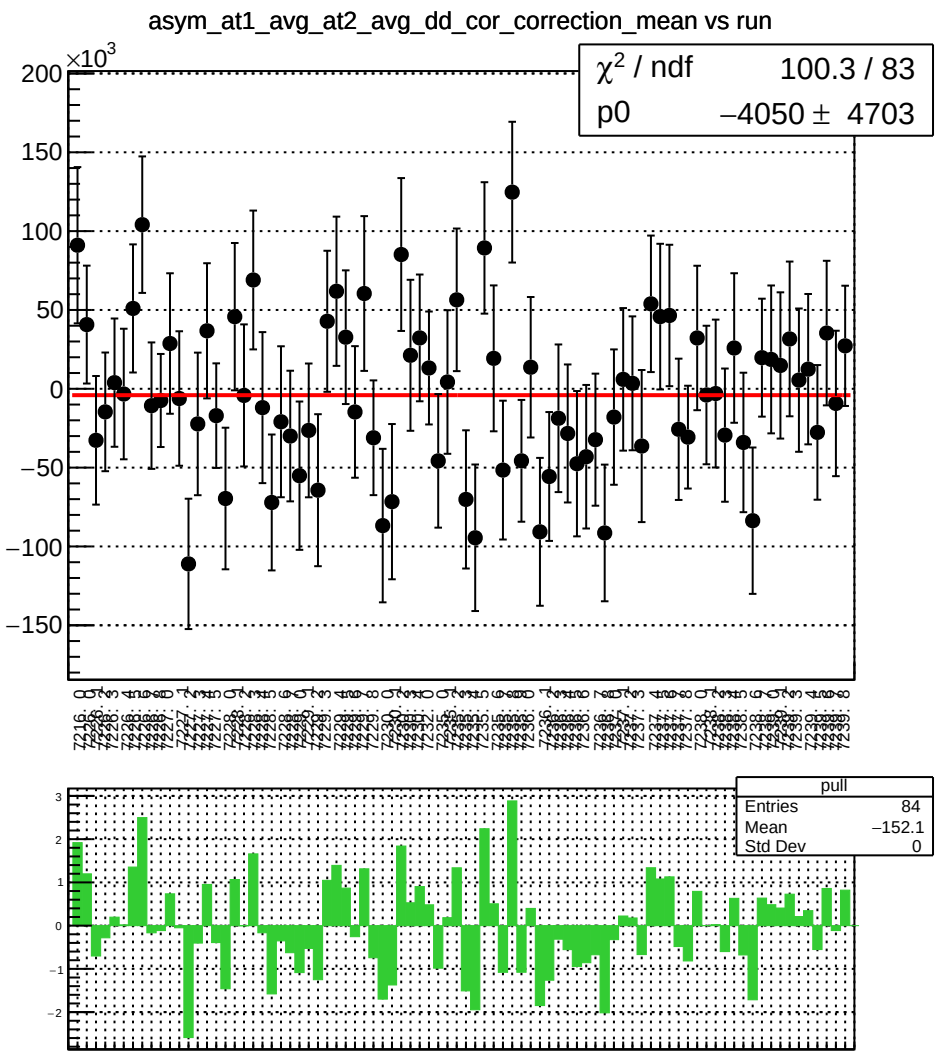

pull1D
Entries 84
Mean 0.006772
Std Dev 1.092

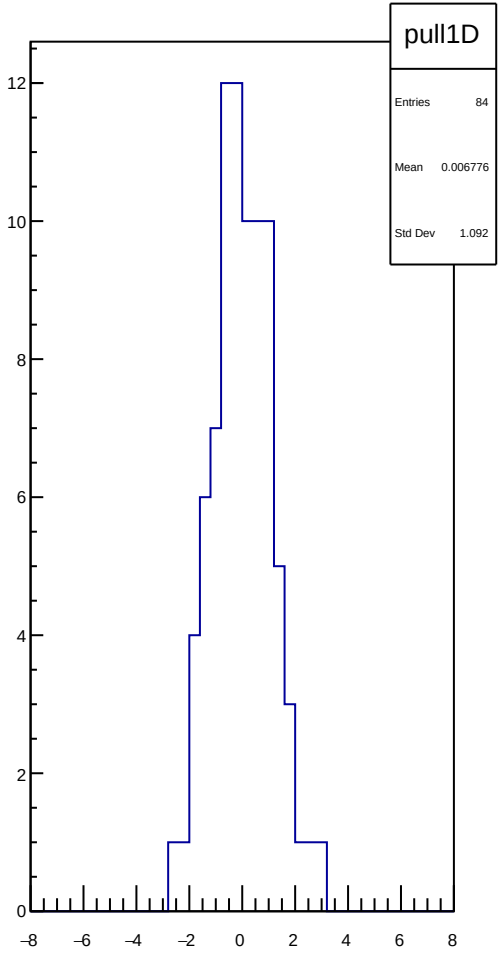

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ^2 / ndf 6437 / 83
p0 4233 ± 3.325
5000
4800
4600
4400
4200
4000
3800
3600
3400

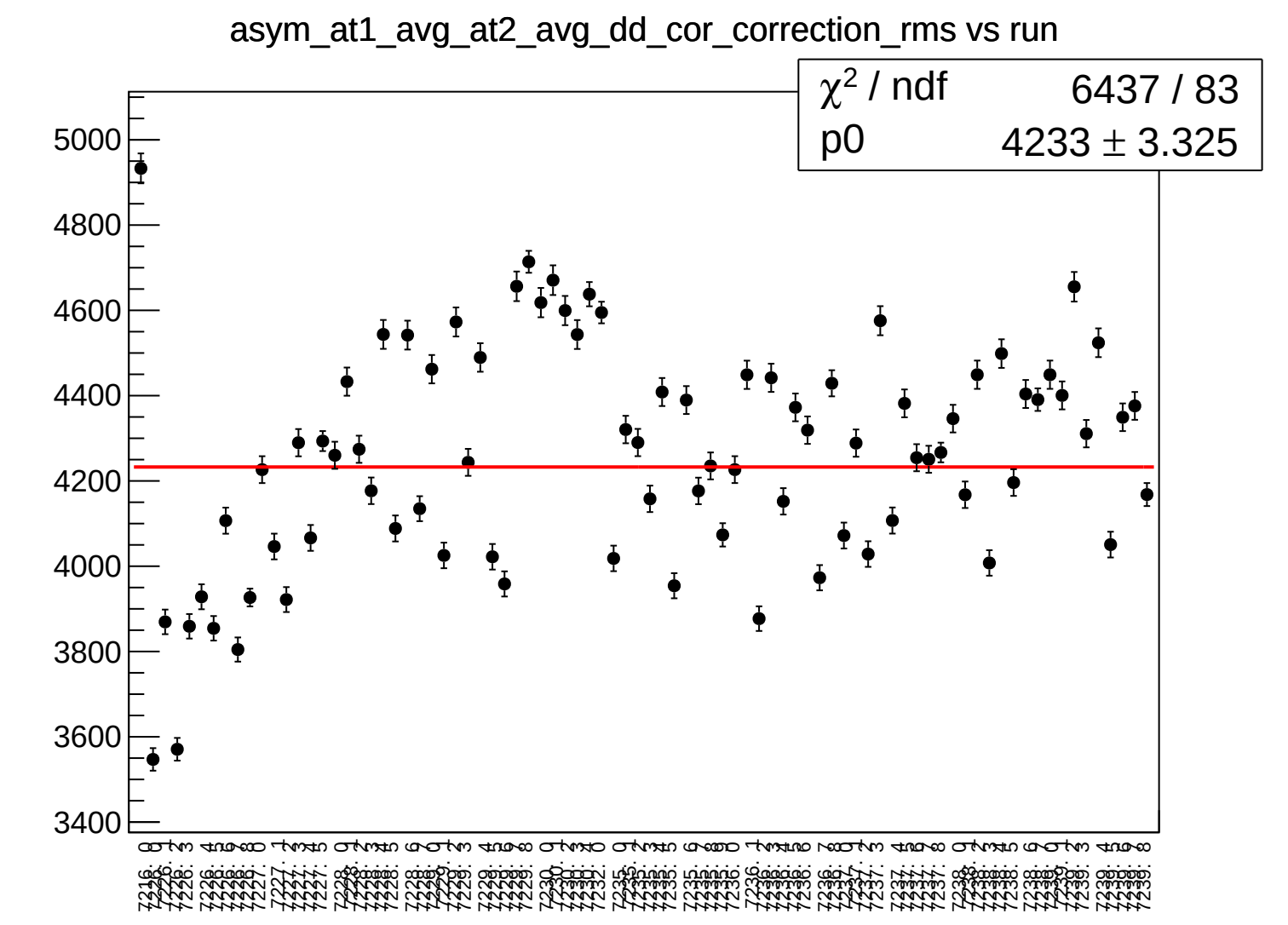

cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 90.47 / 83
p0 477.6 ± 1344
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −358.9
Std Dev 0
2
1
0
−1
−2

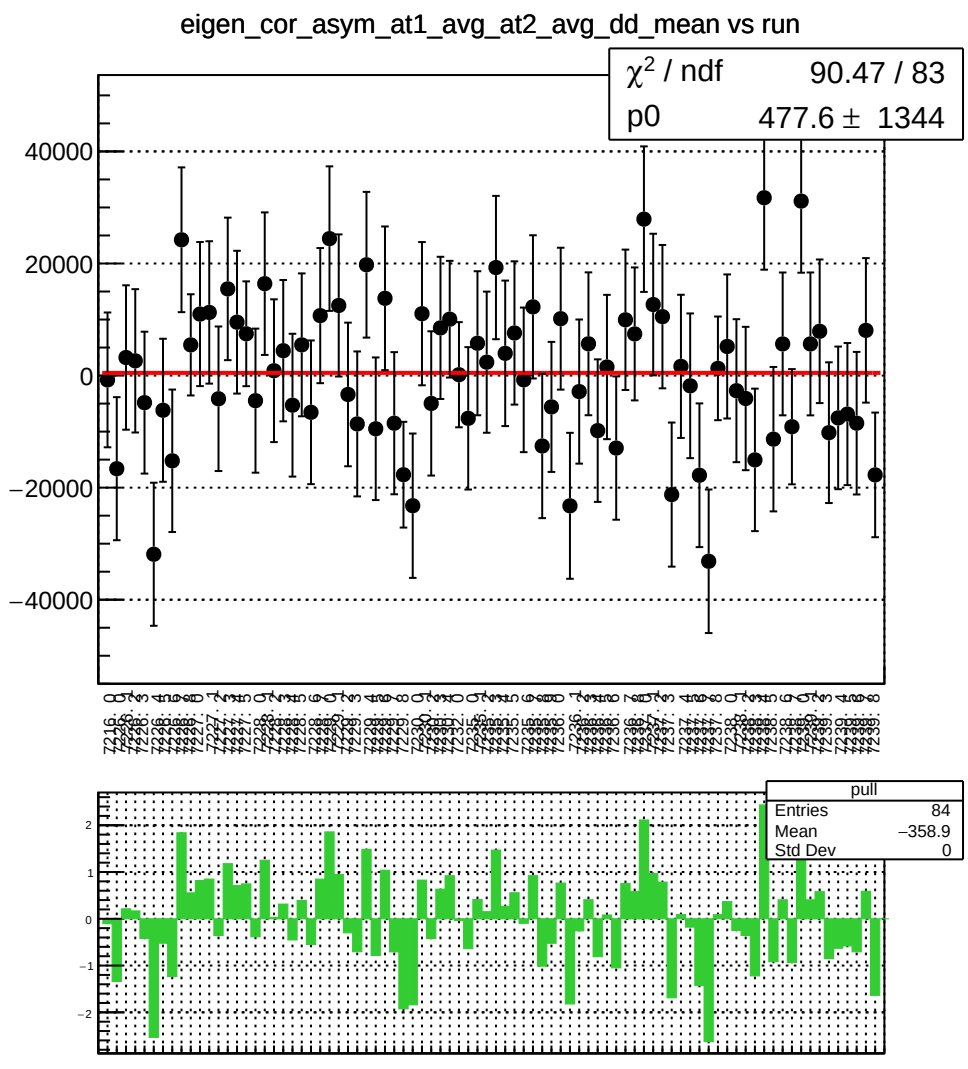

pull1D
Entries 84
Mean 0.004737
Std Dev 1.038
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

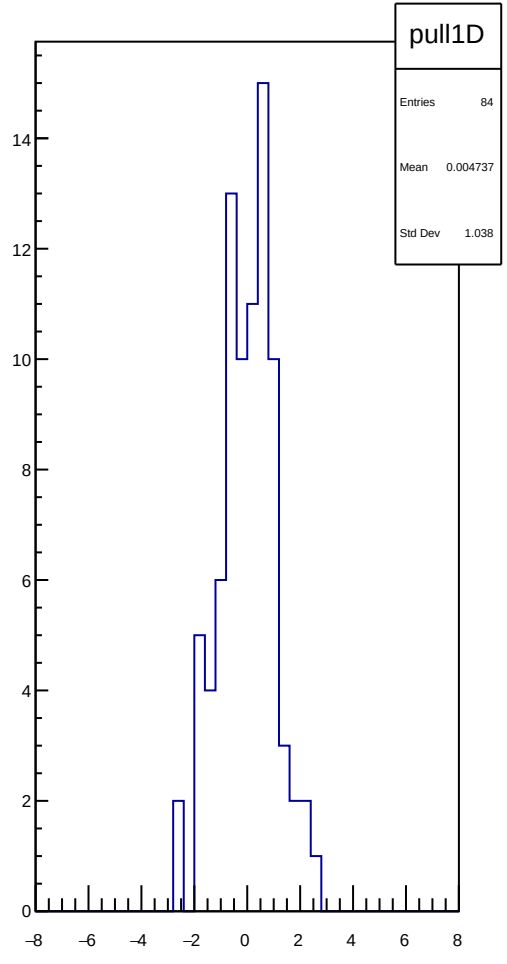

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ^2 / ndf 96.81 / 83
p0 1212 ± 0.9505
1250
1240
1230
1220
1210
1200
1190
1180

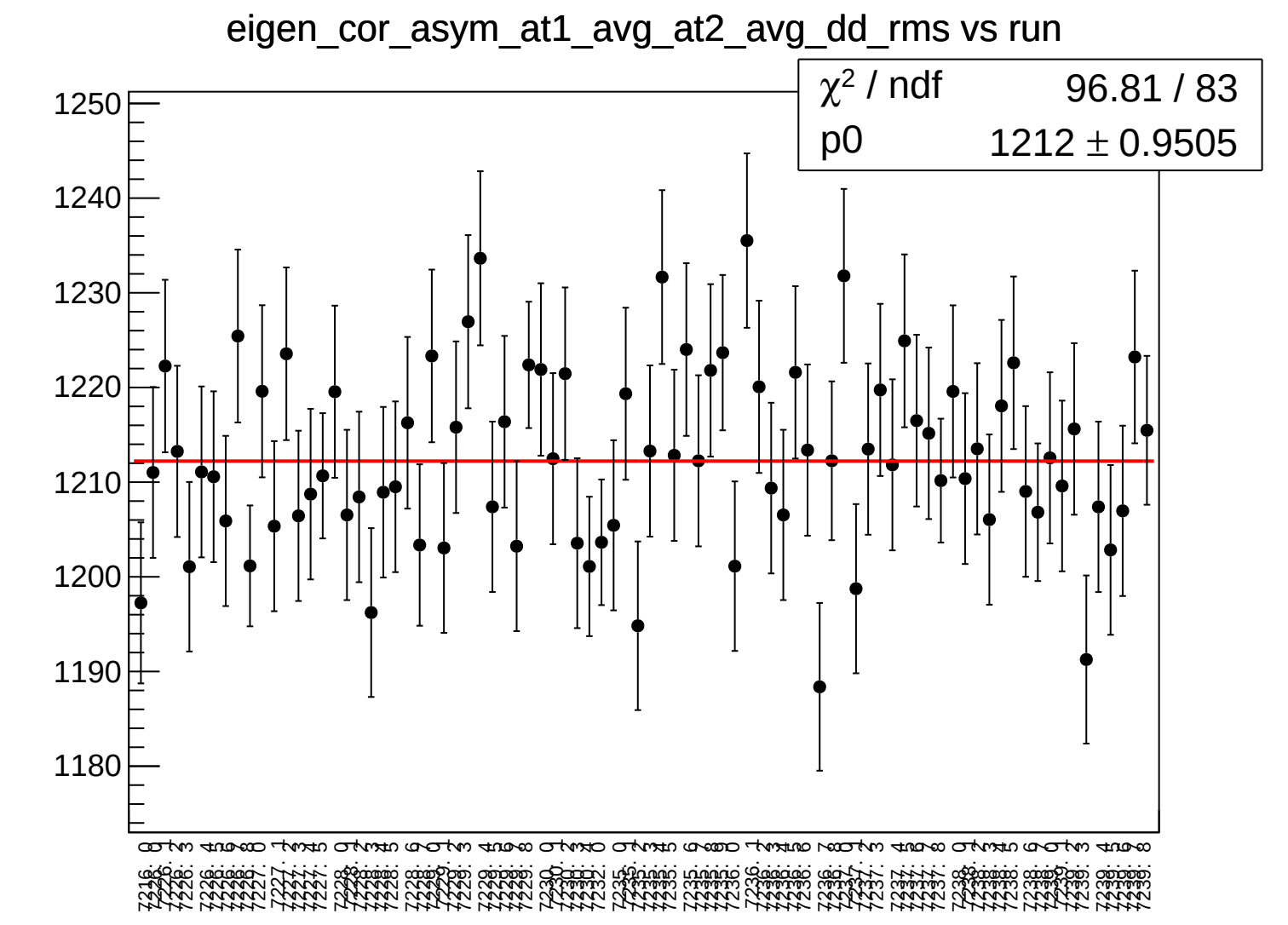

asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 100.3 / 83
p0 −4050 ± 4703
pull
Entries 84
Mean −152.1
Std Dev 0

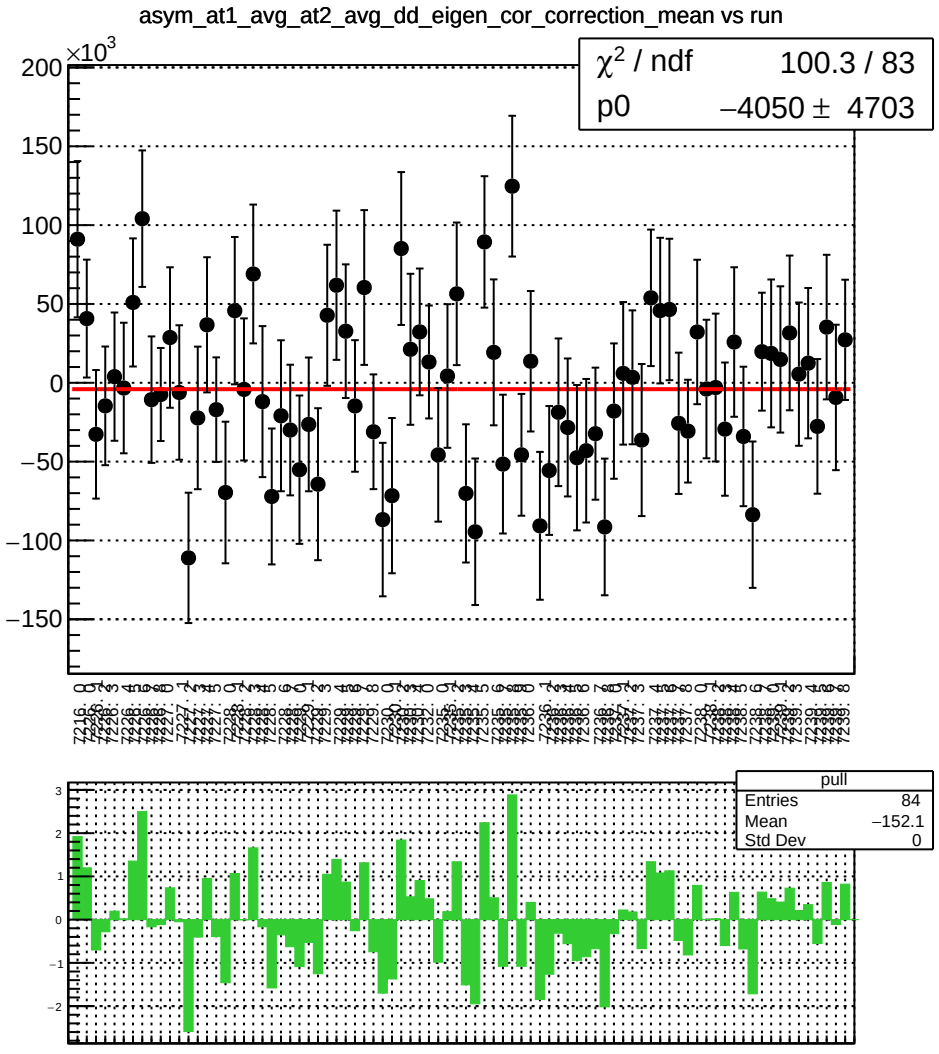

pull1D
Entries 84
Mean 0.006776
Std Dev 1.092

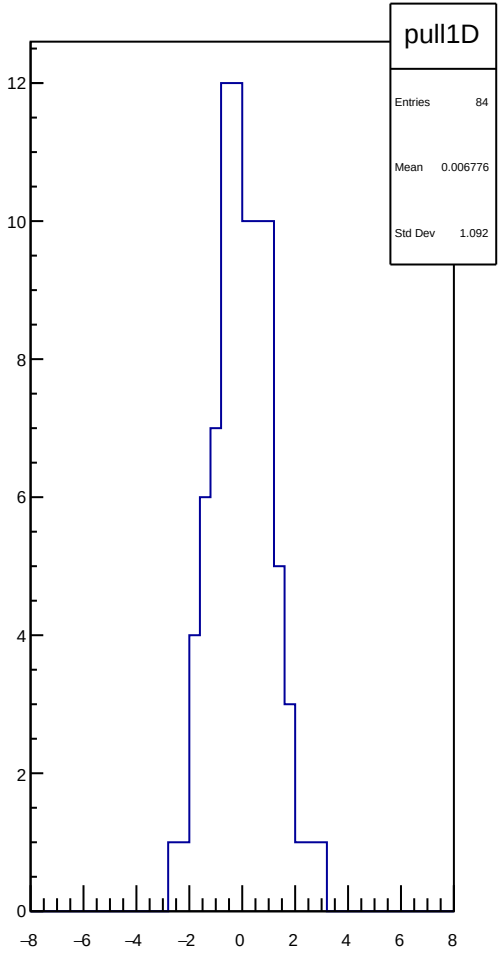

asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 6437 / 83
p0 4233 ± 3.325
5000
4800
4600
4400
4200
4000
3800
3600
3400

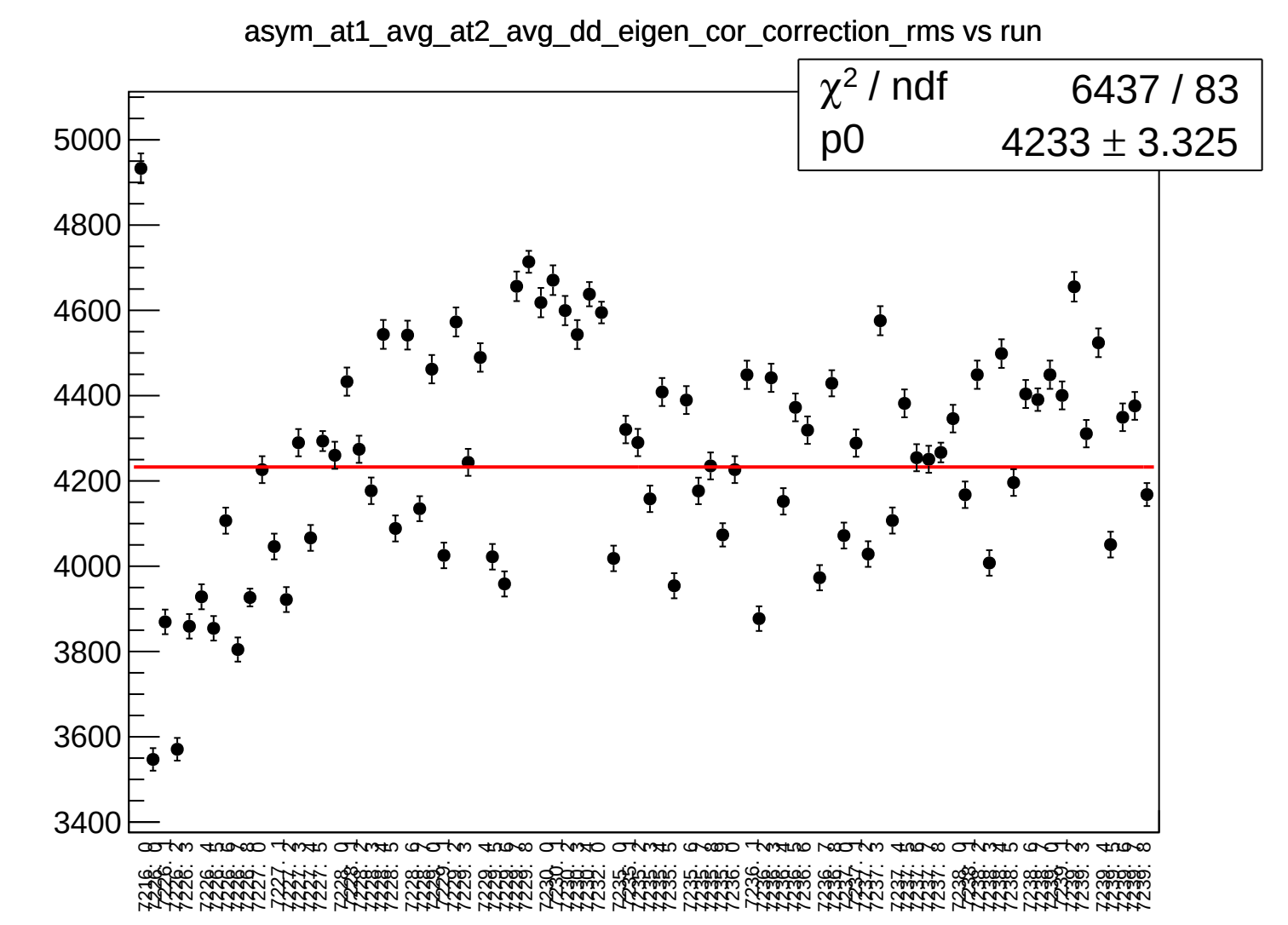

eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 90.47 / 83
p0 477.6 ± 1344
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −358.9
Std Dev 0
2
1
0
−1
−2

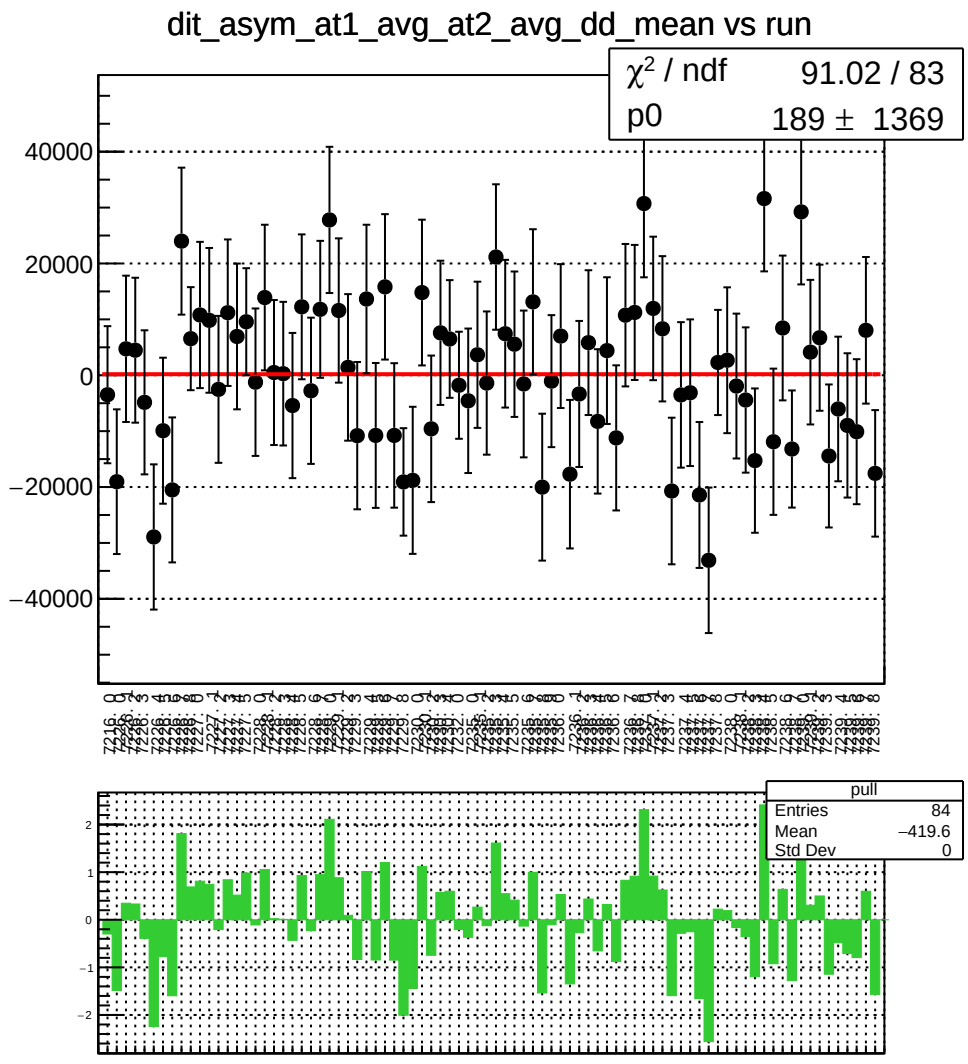

pull1D
Entries 84
Mean 0.004737
Std Dev 1.038
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

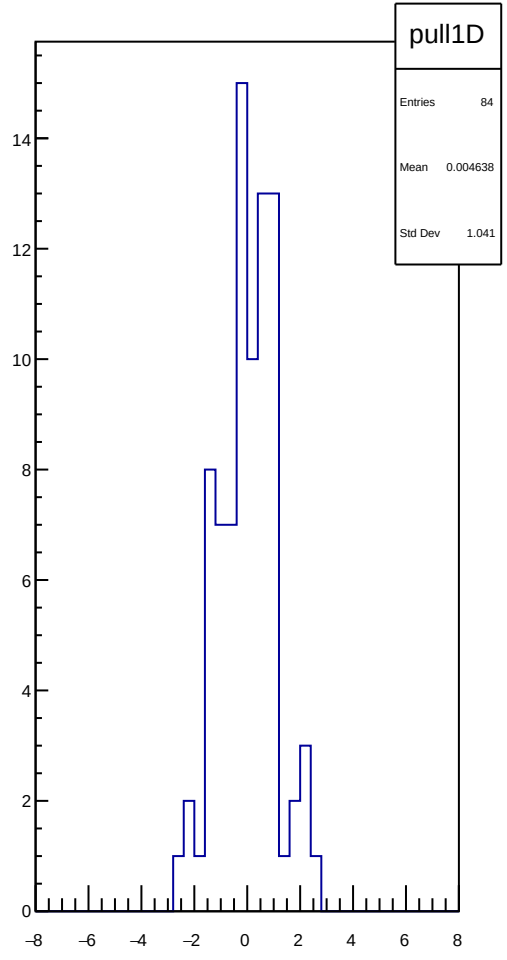

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 96.81 / 83
p0 1212 ± 0.9505
1250
1240
1230
1220
1210
1200
1190
1180

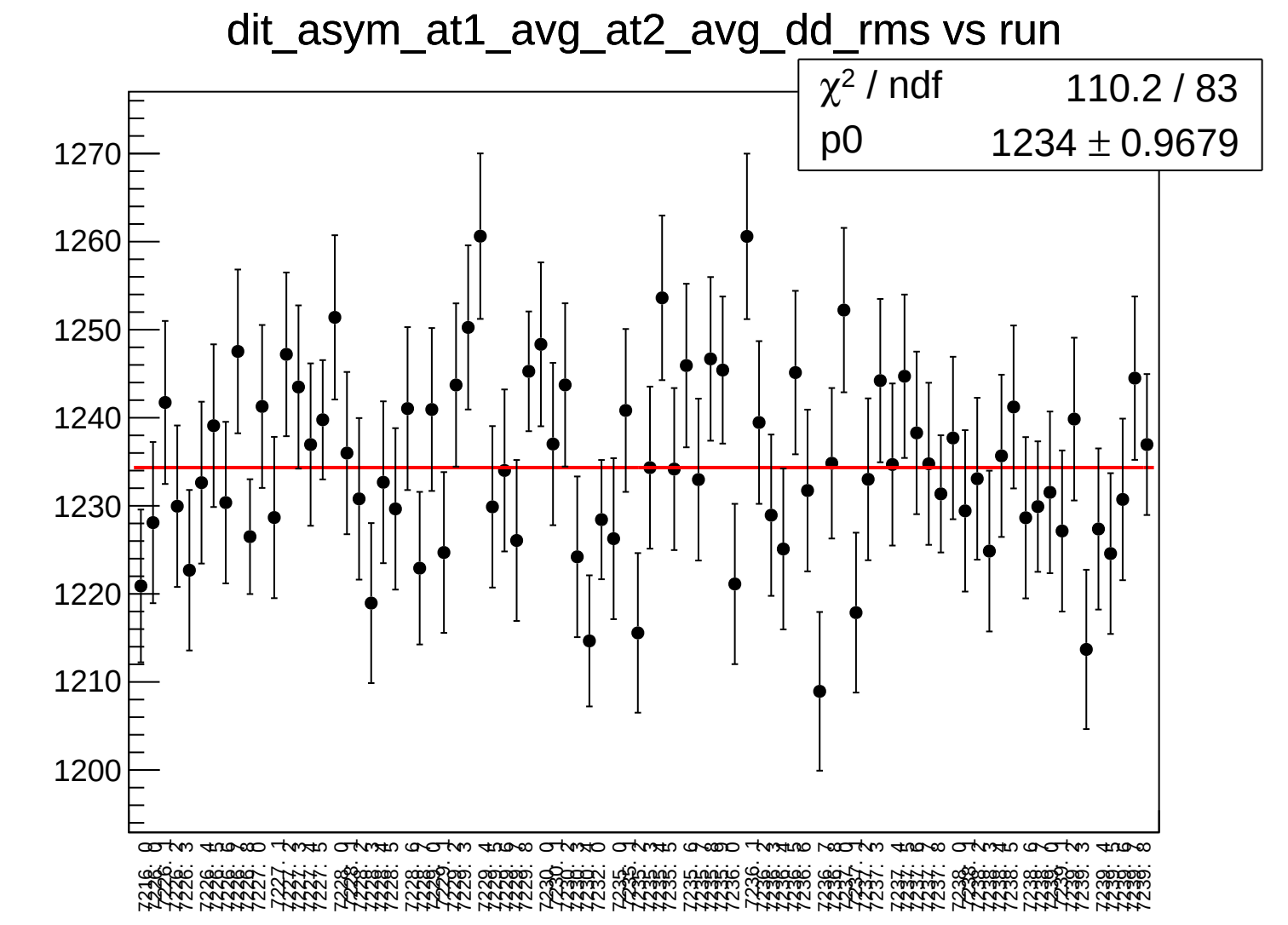

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 100.3 / 83
p0 −4050 ± 4703
×10³
pull
Entries 84
Mean −152.1
Std Dev 0

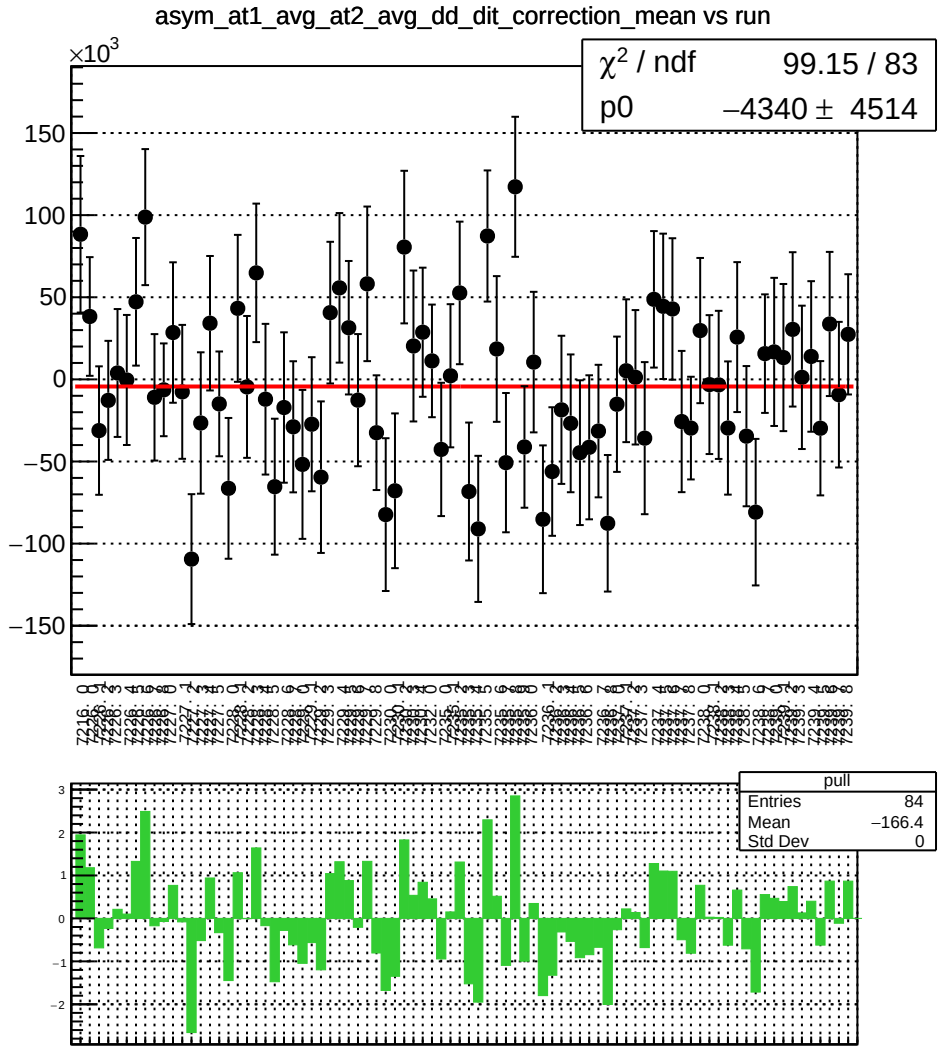

pull1D
Entries 84
Mean 0.006776
Std Dev 1.092

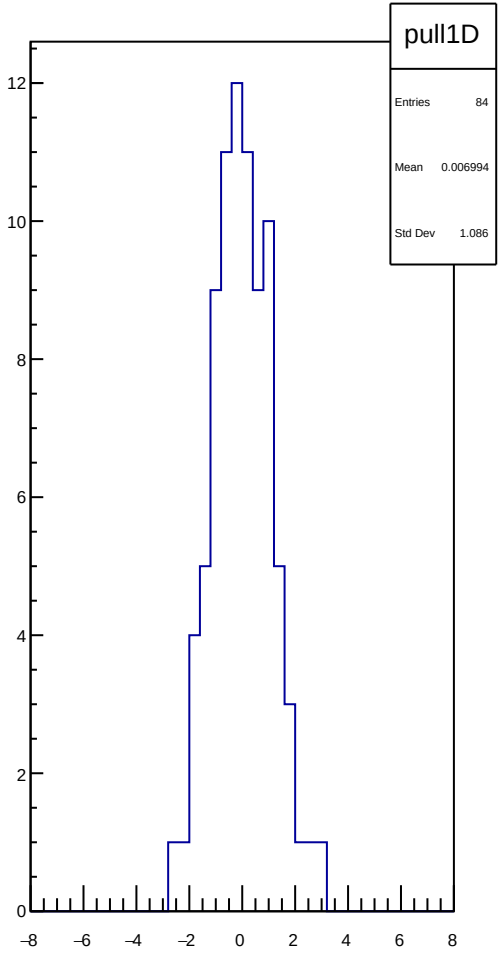

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 6437 / 83
p0 4233 ± 3.325
5000
4800
4600
4400
4200
4000
3800
3600
3400

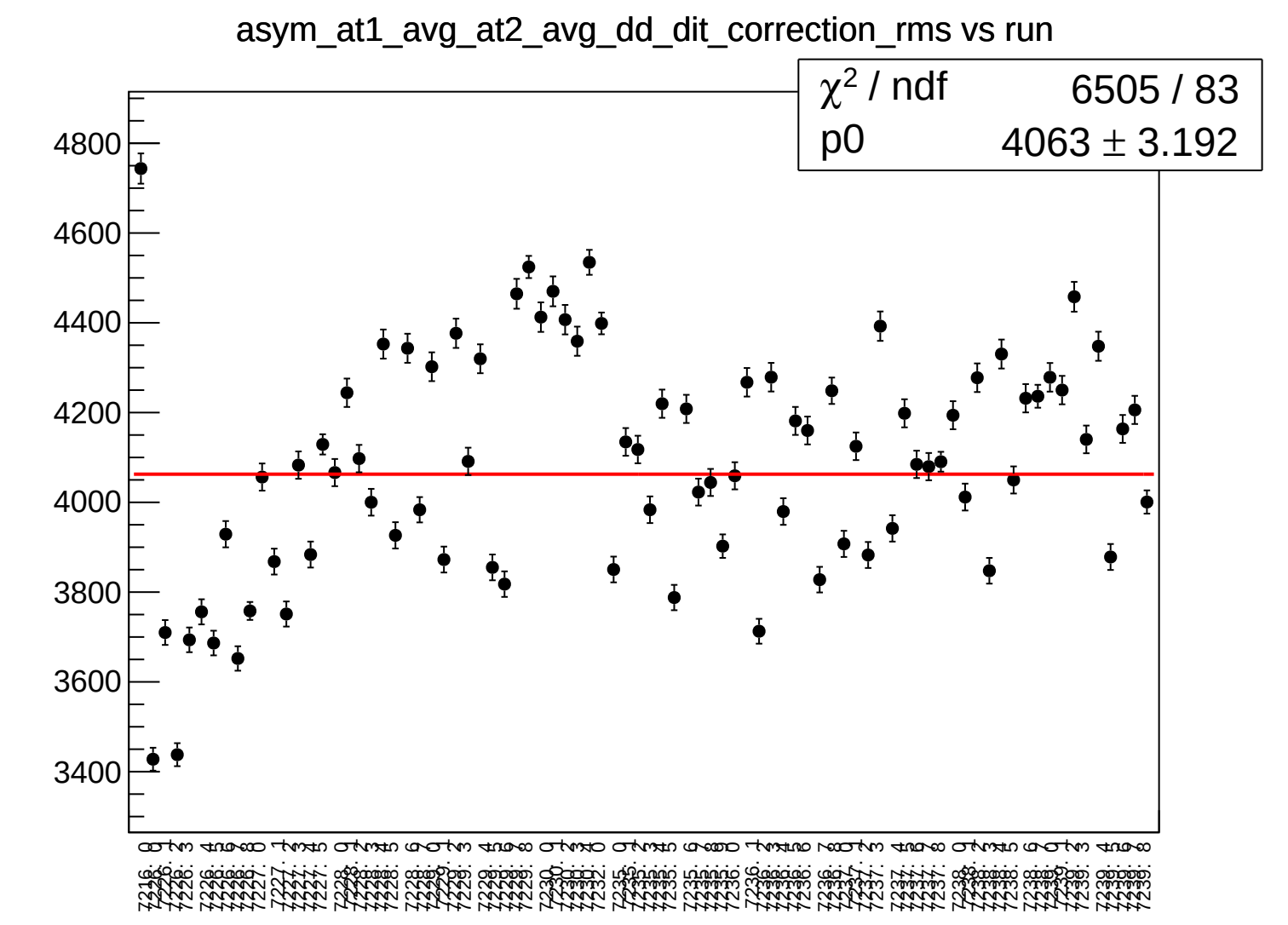

dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 91.02 / 83
p0 189 ± 1369
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −419.6
Std Dev 0
2
1
0
−1
−2

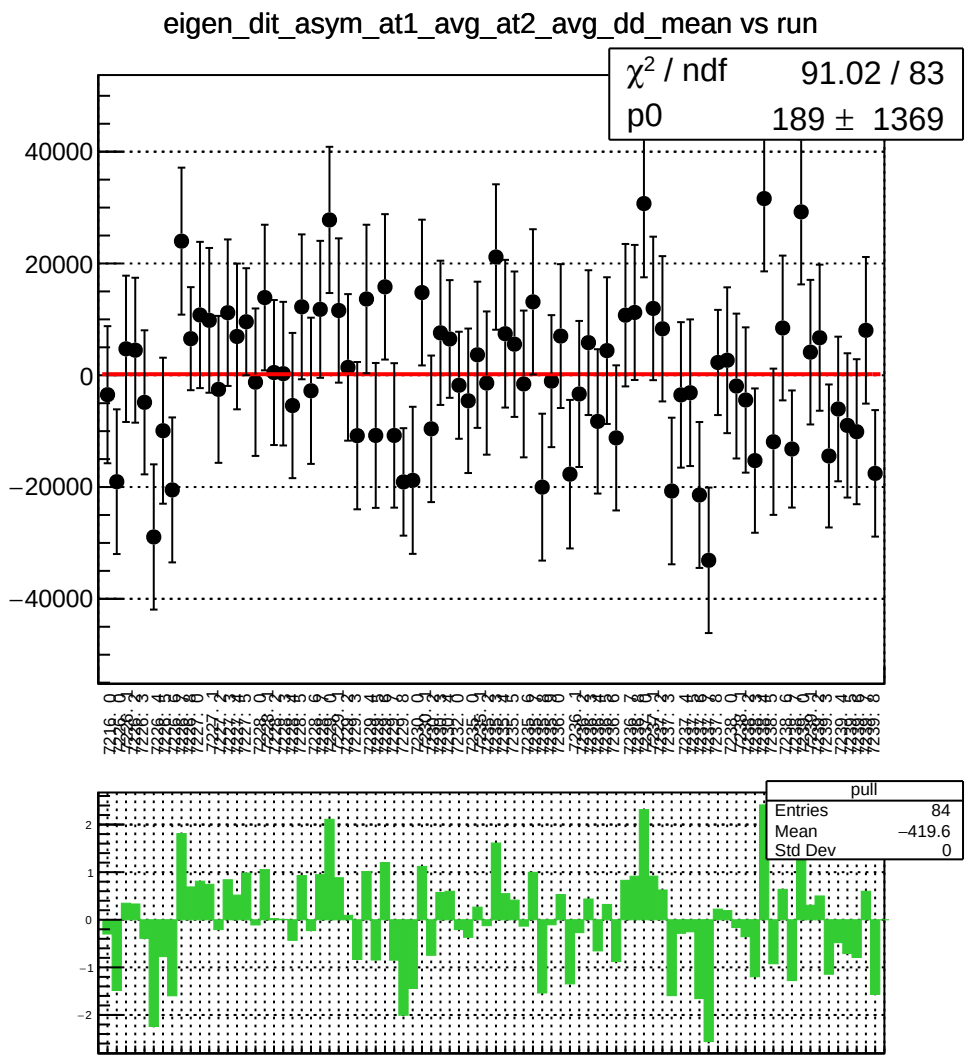

pull1D
Entries 84
Mean 0.004638
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

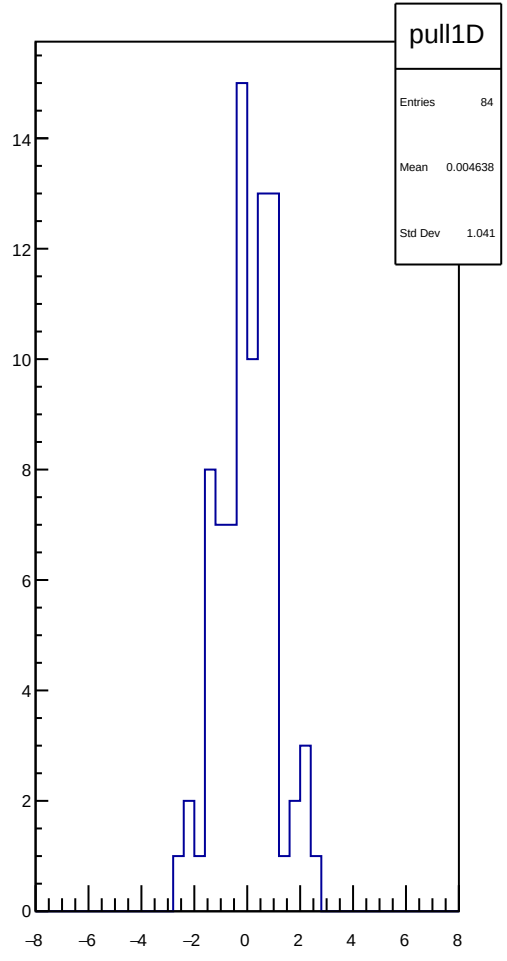

dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 110.2 / 83
p0 1234 ± 0.9679
1270
1260
1250
1240
1230
1220
1210
1200

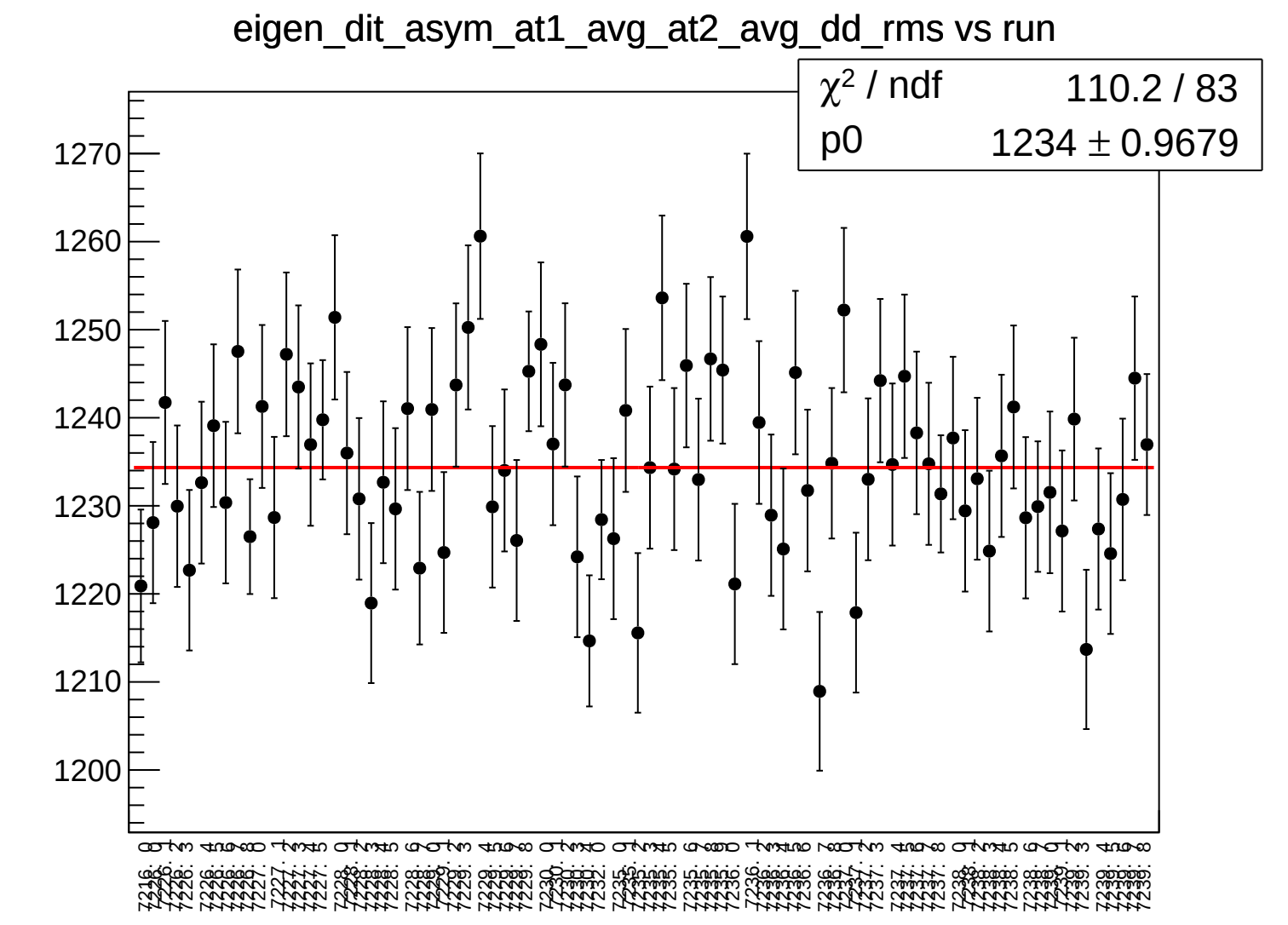

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 99.15 / 83
p0 −4340 ± 4514
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −166.4
Std Dev 0
3
2
1
0
−1
−2

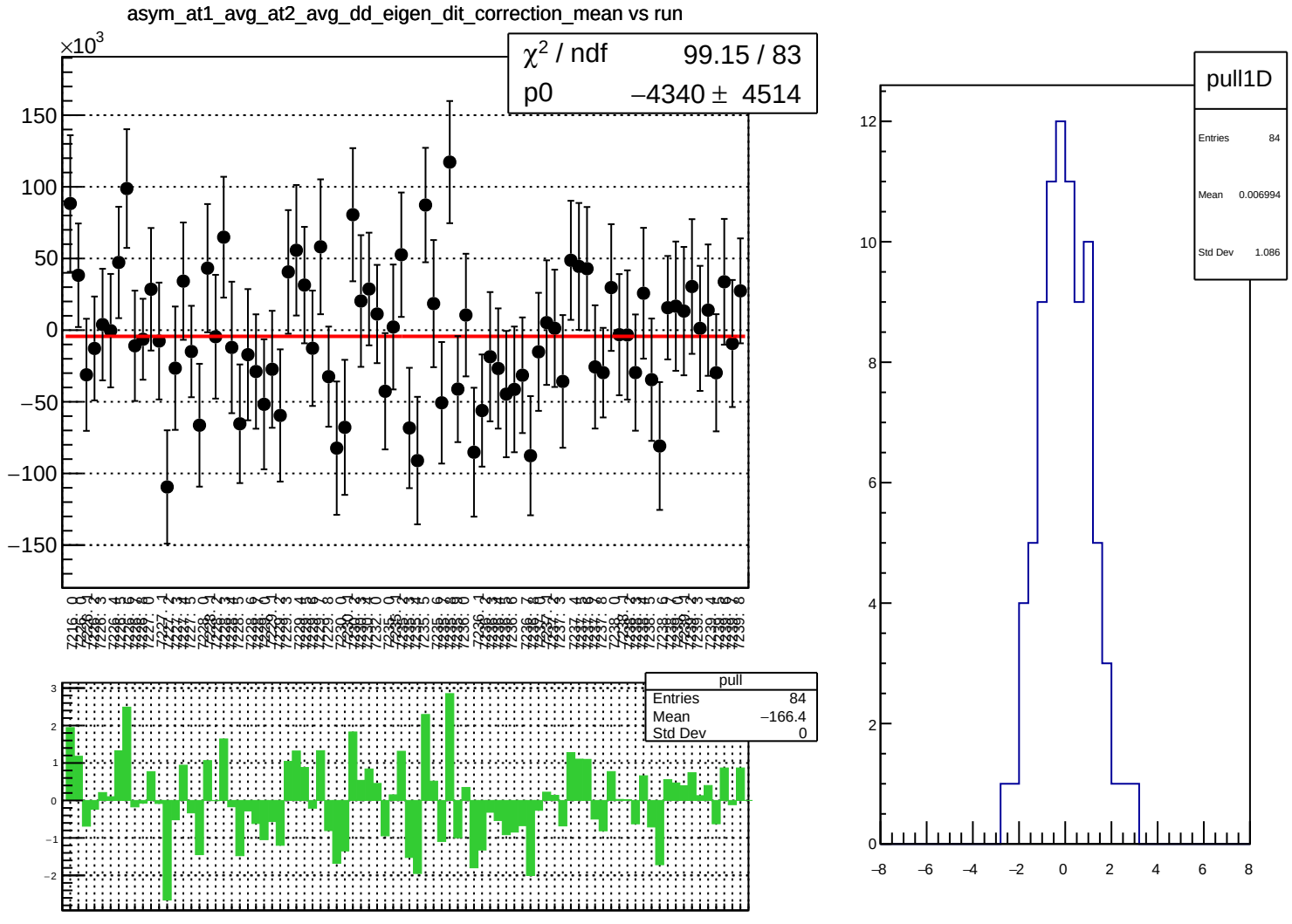

pull1D
Entries 84
Mean 0.006994
Std Dev 1.086
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

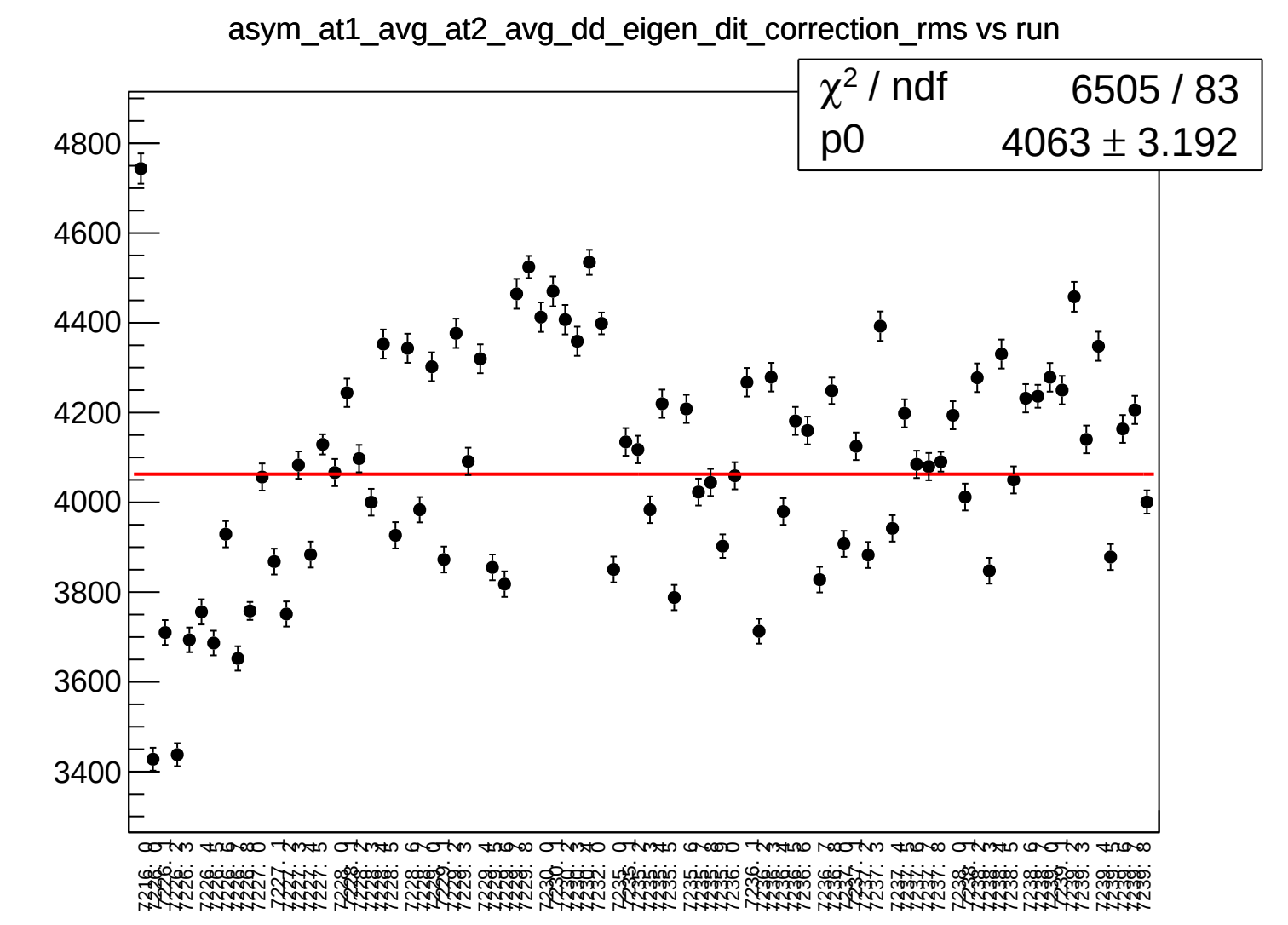

asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 6505 / 83
p0 4063 ± 3.192
4800
4600
4400
4200
4000
3800
3600
3400

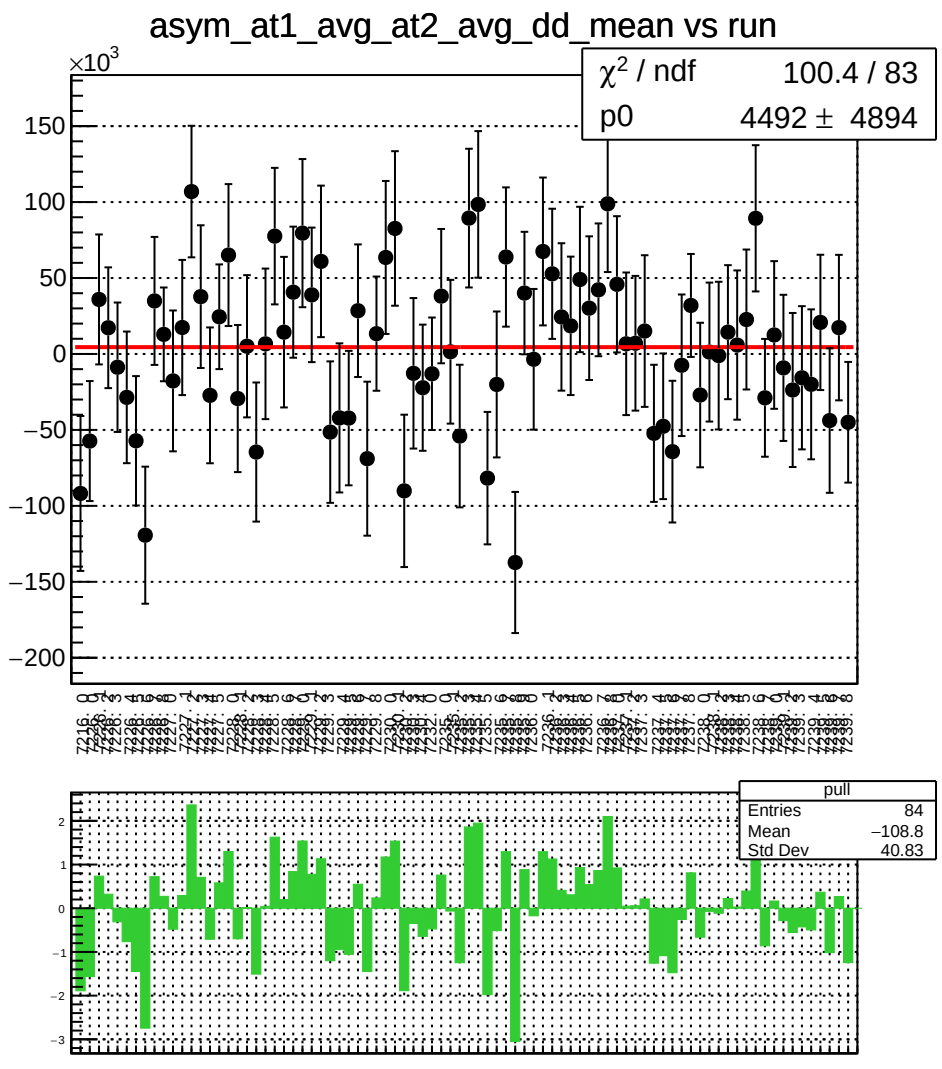

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 91.02 / 83
p0 189 ± 1369
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −419.6
Std Dev 0
2
1
0
−1
−2

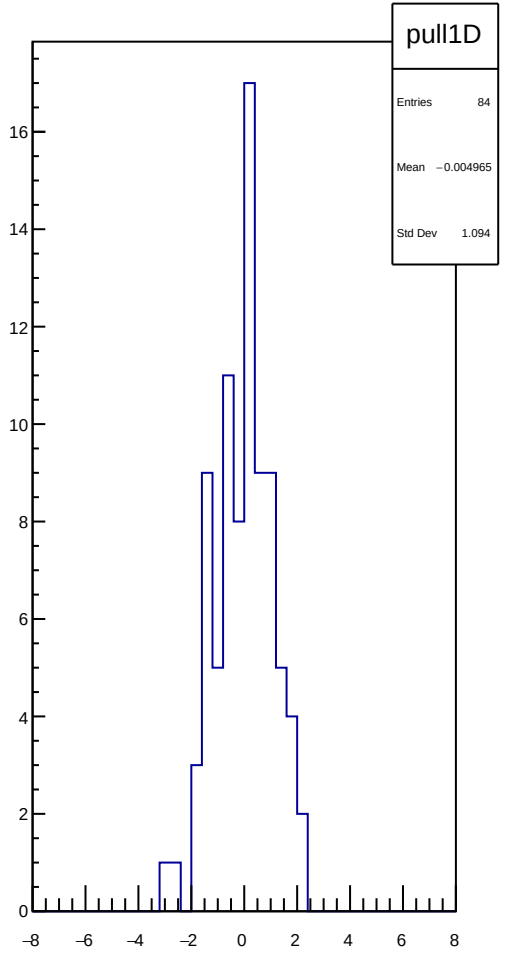

pull1D
Entries 84
Mean 0.004638
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

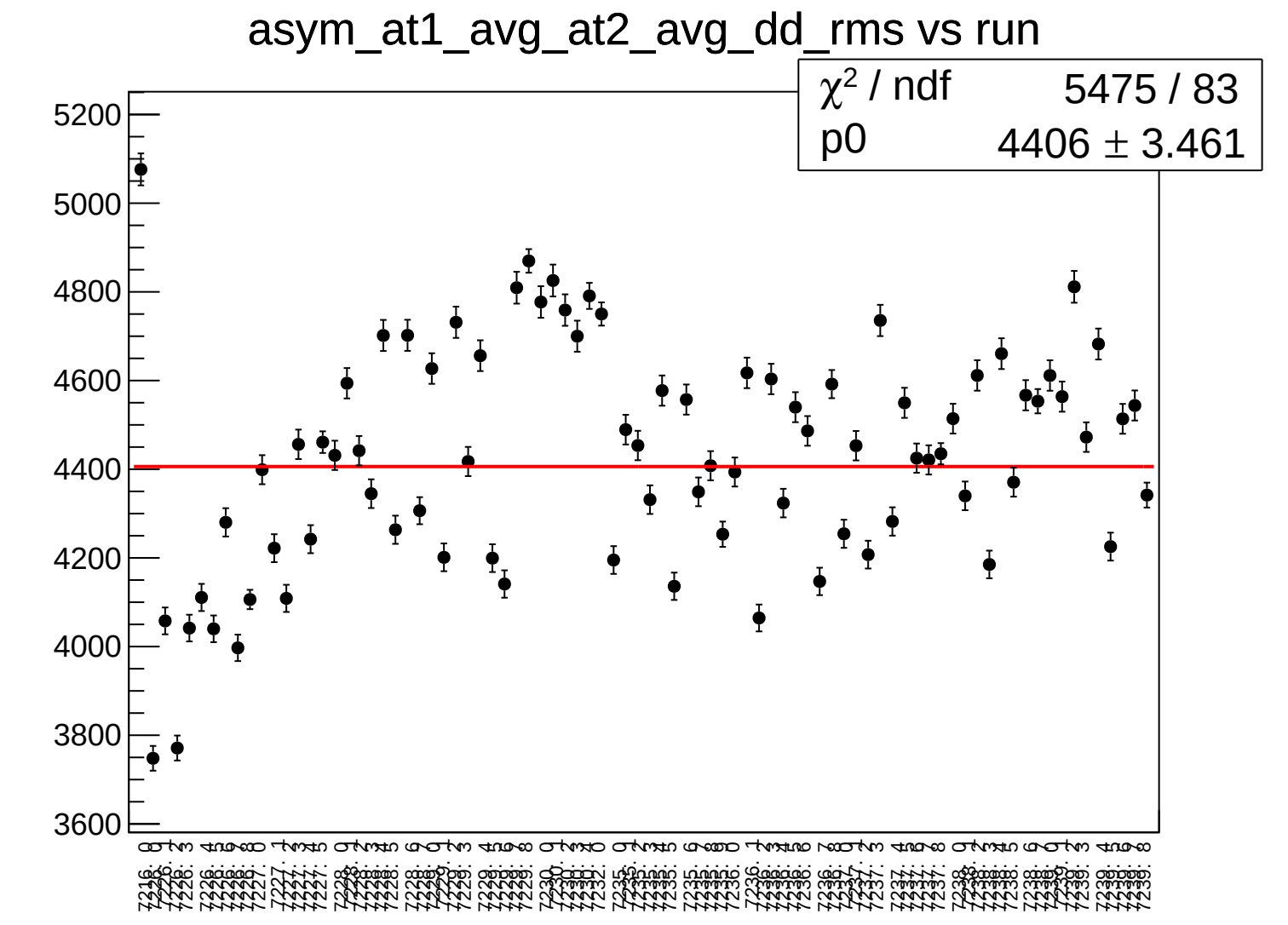

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 110.2 / 83
p0 1234 ± 0.9679
1270
1260
1250
1240
1230
1220
1210
1200

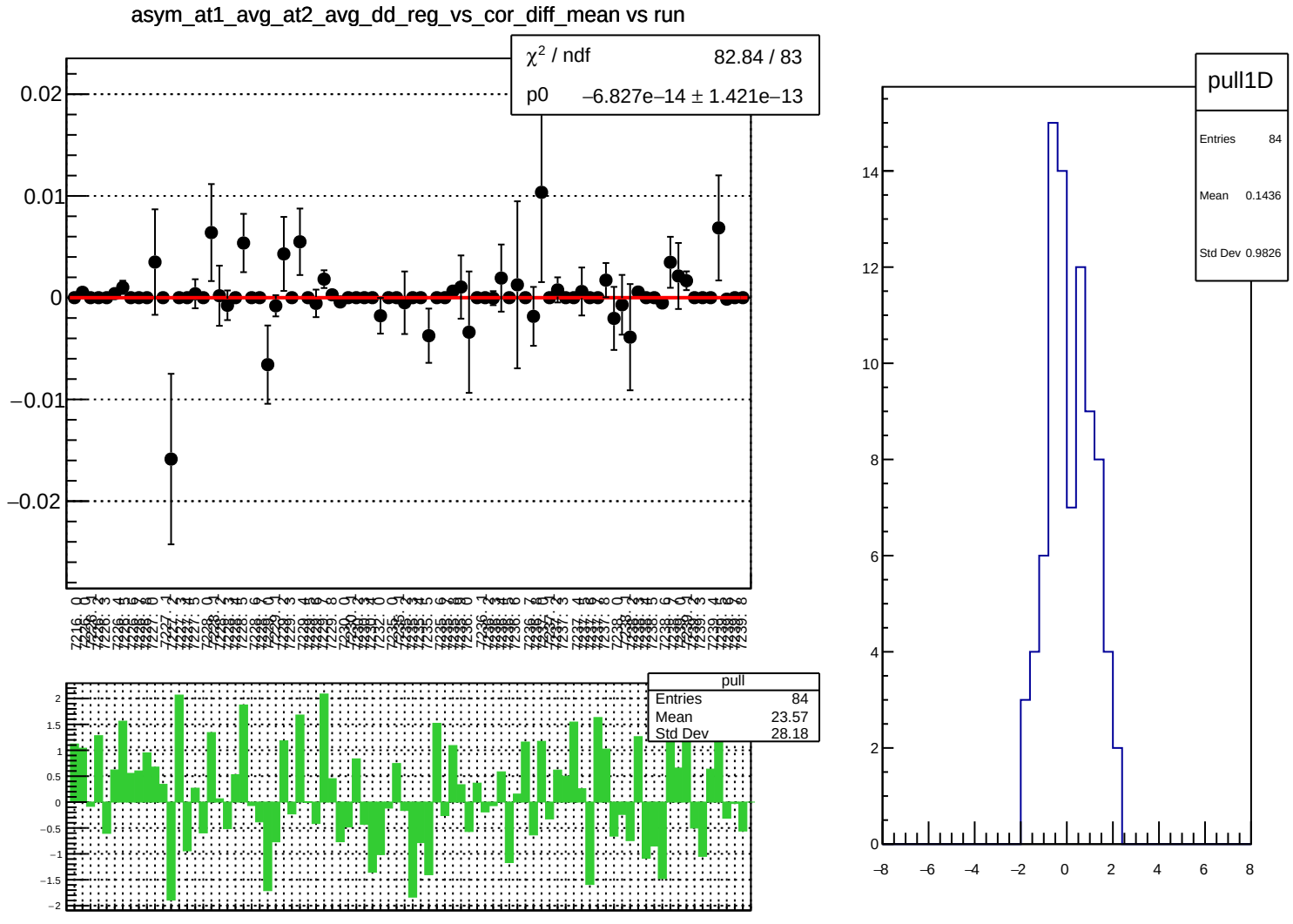

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 99.15 / 83
p0 −4340 ± 4514
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −166.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.006994
Std Dev 1.086
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

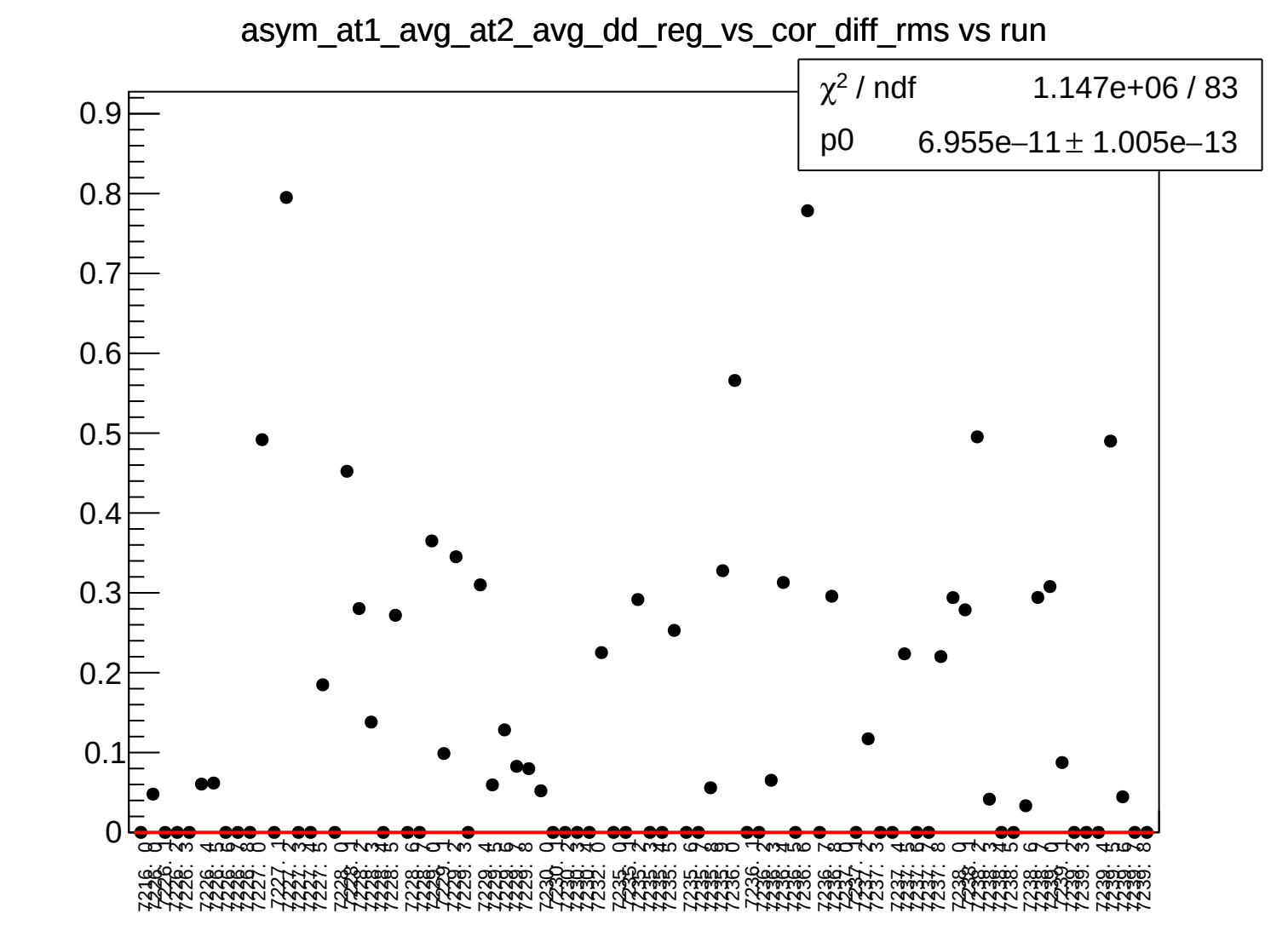

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 6505 / 83
p0 4063 ± 3.192
4800
4600
4400
4200
4000
3800
3600
3400

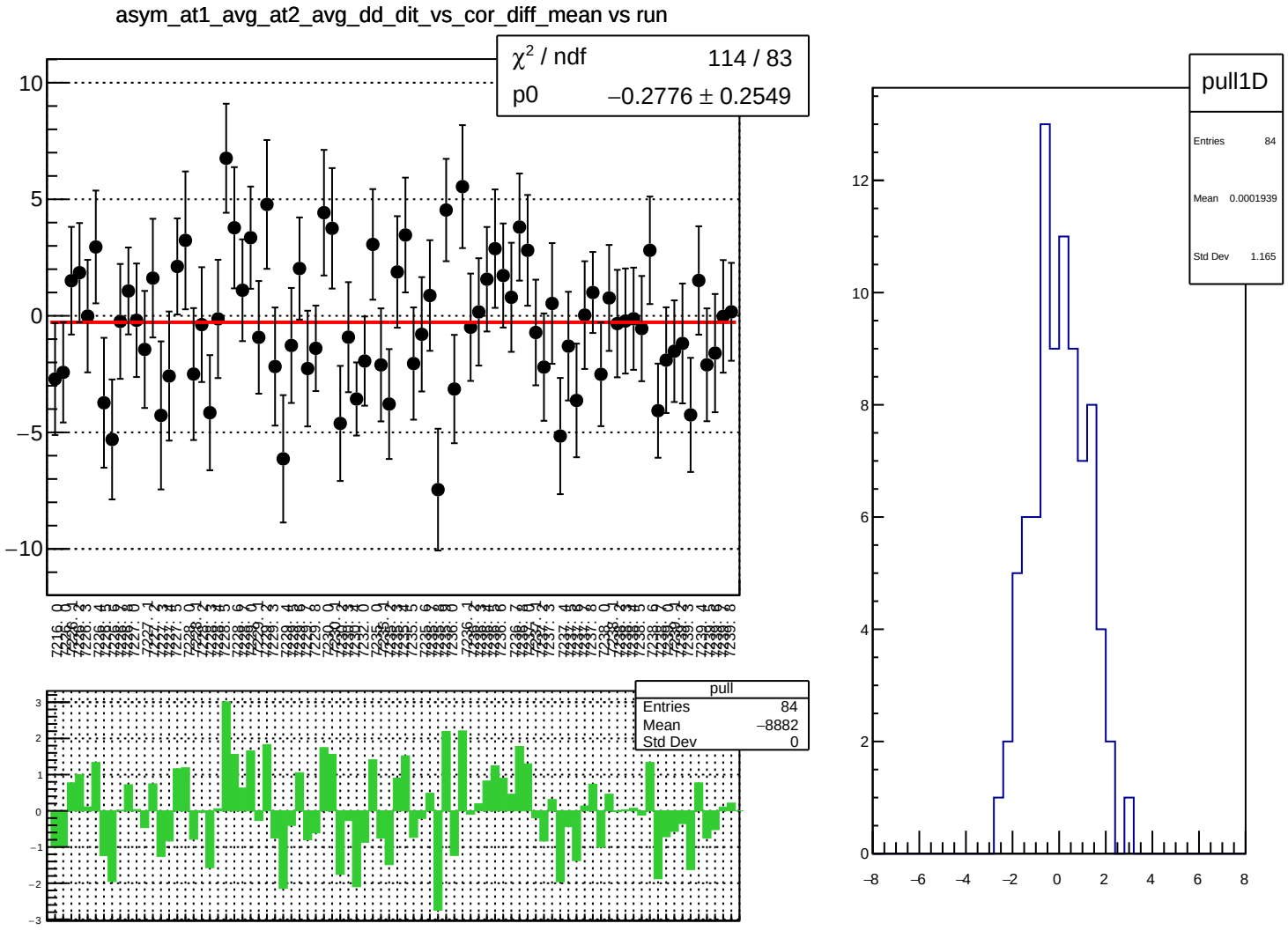

asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ^2 / ndf 100.4 / 83
p0 4492 ± 4894
150
100
50
0
−50
−100
−150
−200
pull
Entries 84
Mean −108.8
Std Dev 40.83
2
1
0
−1
−2
−3

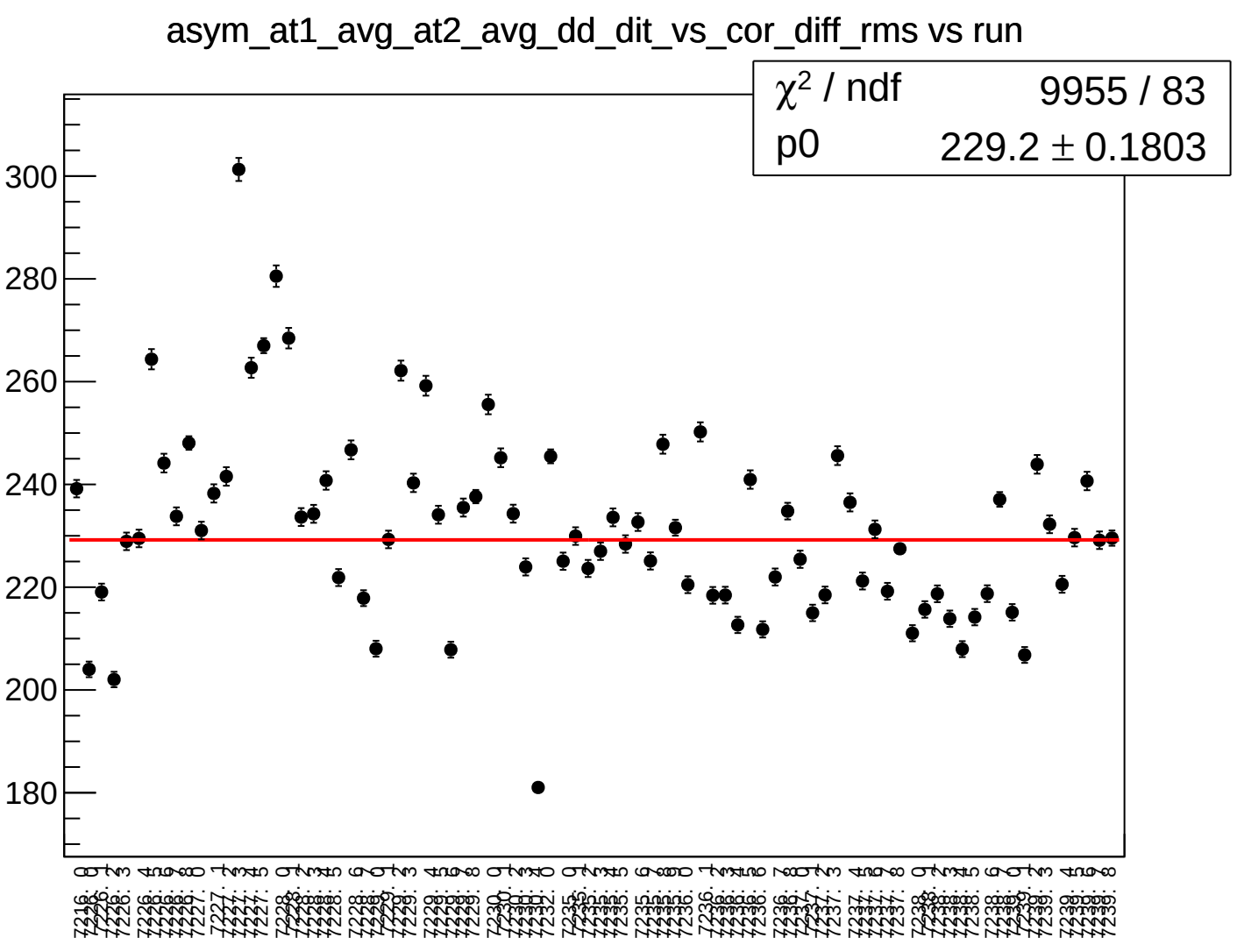

pull1D
Entries 84
Mean −0.004965
Std Dev 1.094
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 5475 / 83
p0 4406 ± 3.461
5200
5000
4800
4600
4400
4200
4000
3800
3600

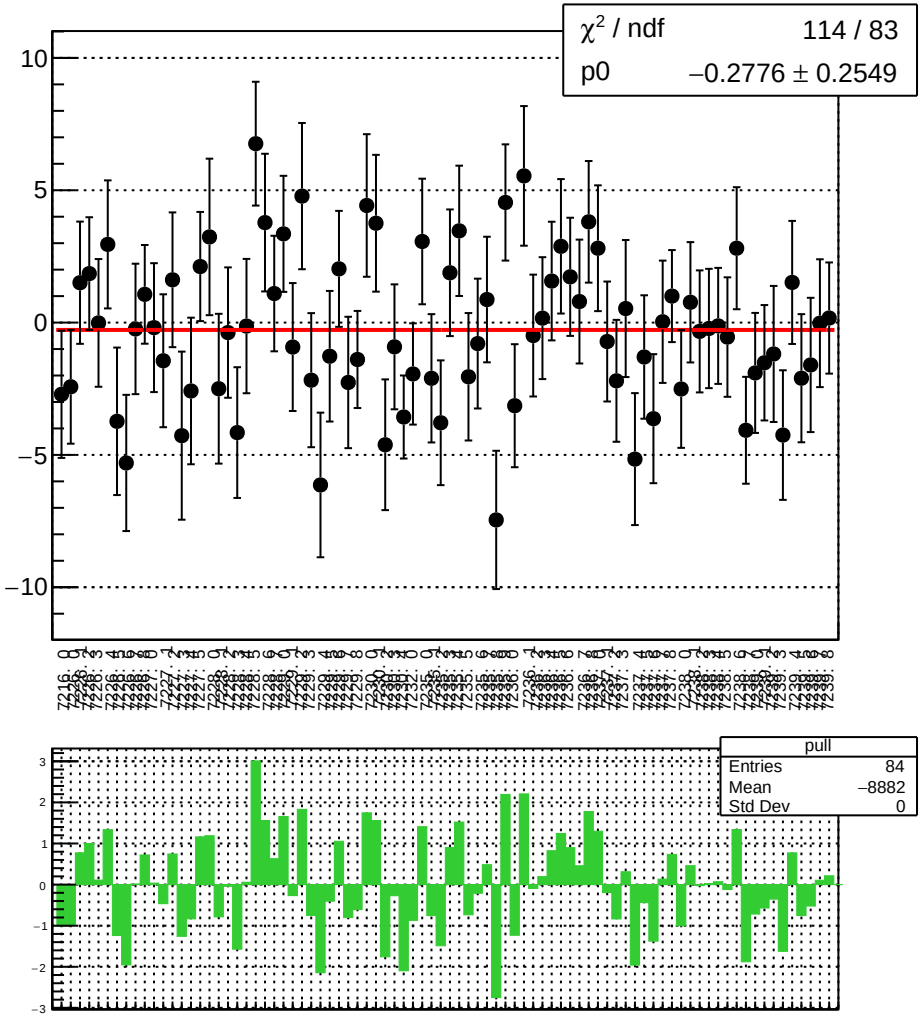

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 82.84 / 83
p0 −6.827e−14 ± 1.421e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 84
Mean 23.57
Std Dev 28.18
pull1D
Entries 84
Mean 0.1436
Std Dev 0.9826

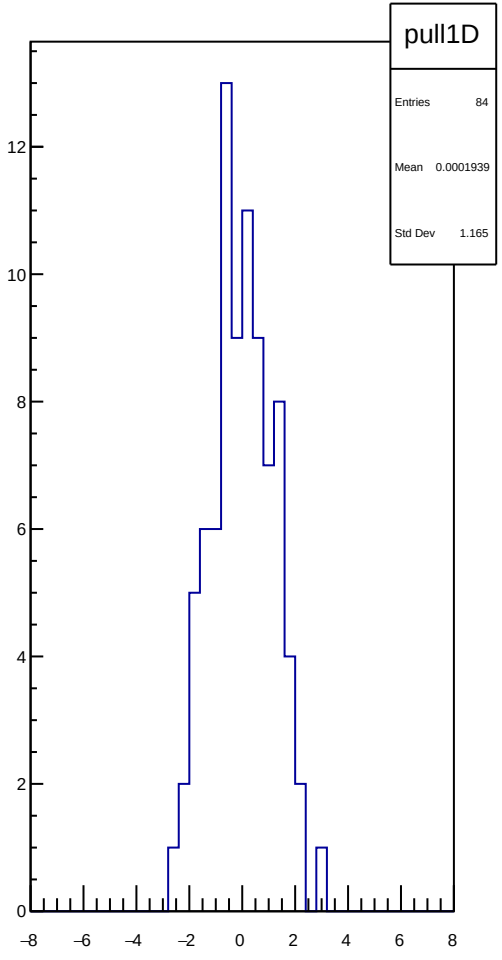

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.147e+06 / 83
p0 6.955e−11 ± 1.005e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

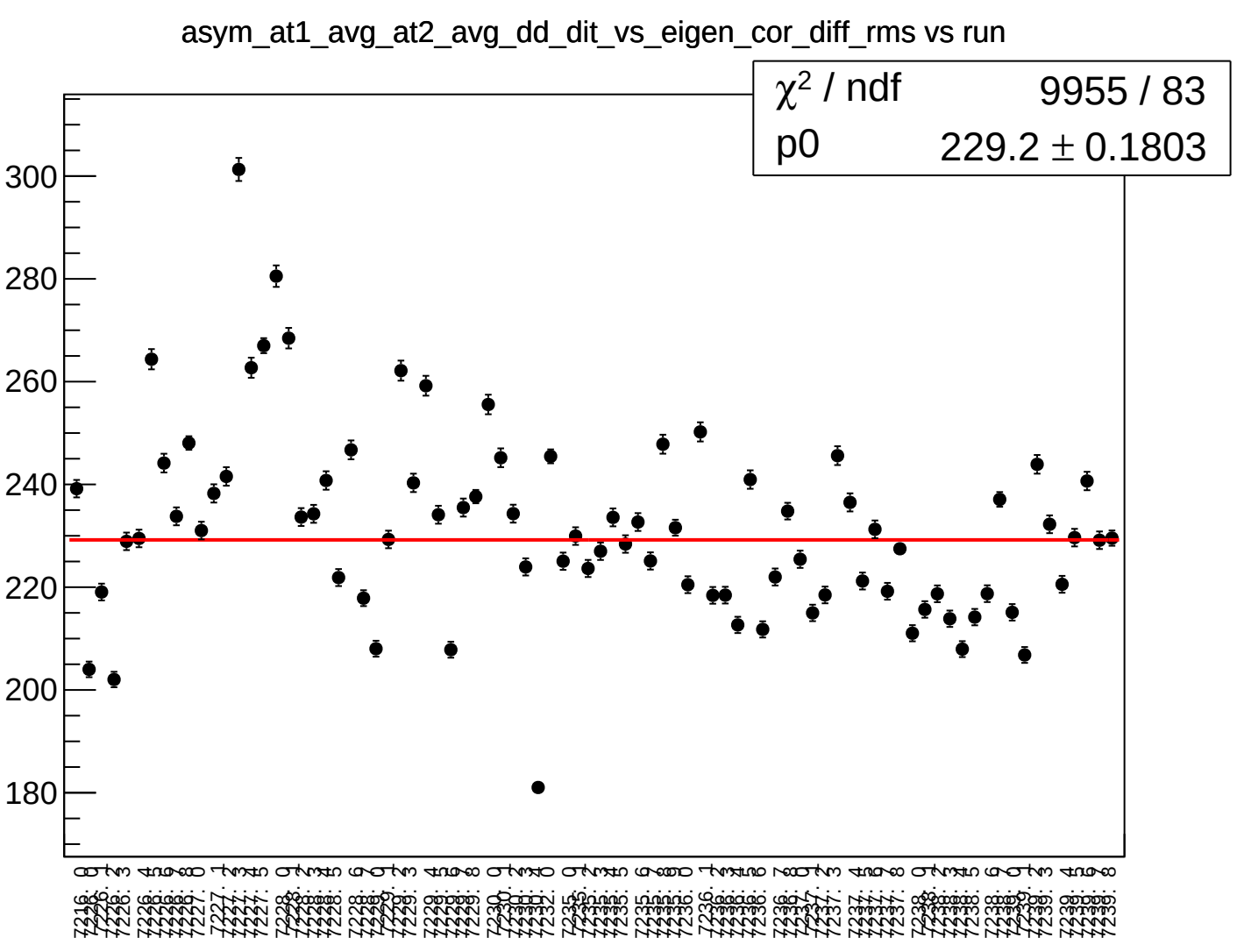

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 114 / 83
p0 −0.2776 ± 0.2549
pull
Entries 84
Mean −8882
Std Dev 0
pull1D
Entries 84
Mean 0.0001939
Std Dev 1.165

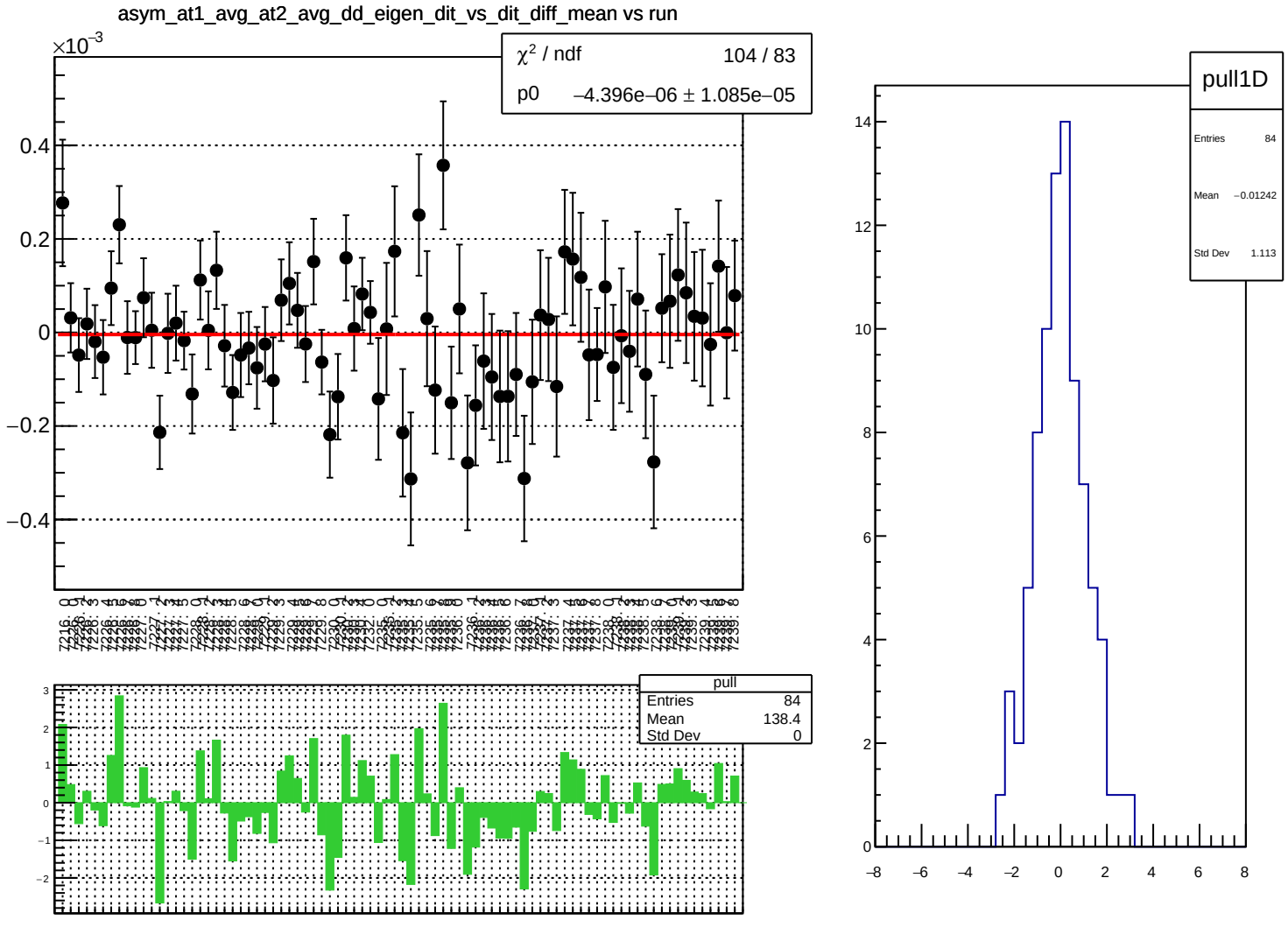

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9955 / 83
p0 229.2 ± 0.1803
300
280
260
240
220
200
180

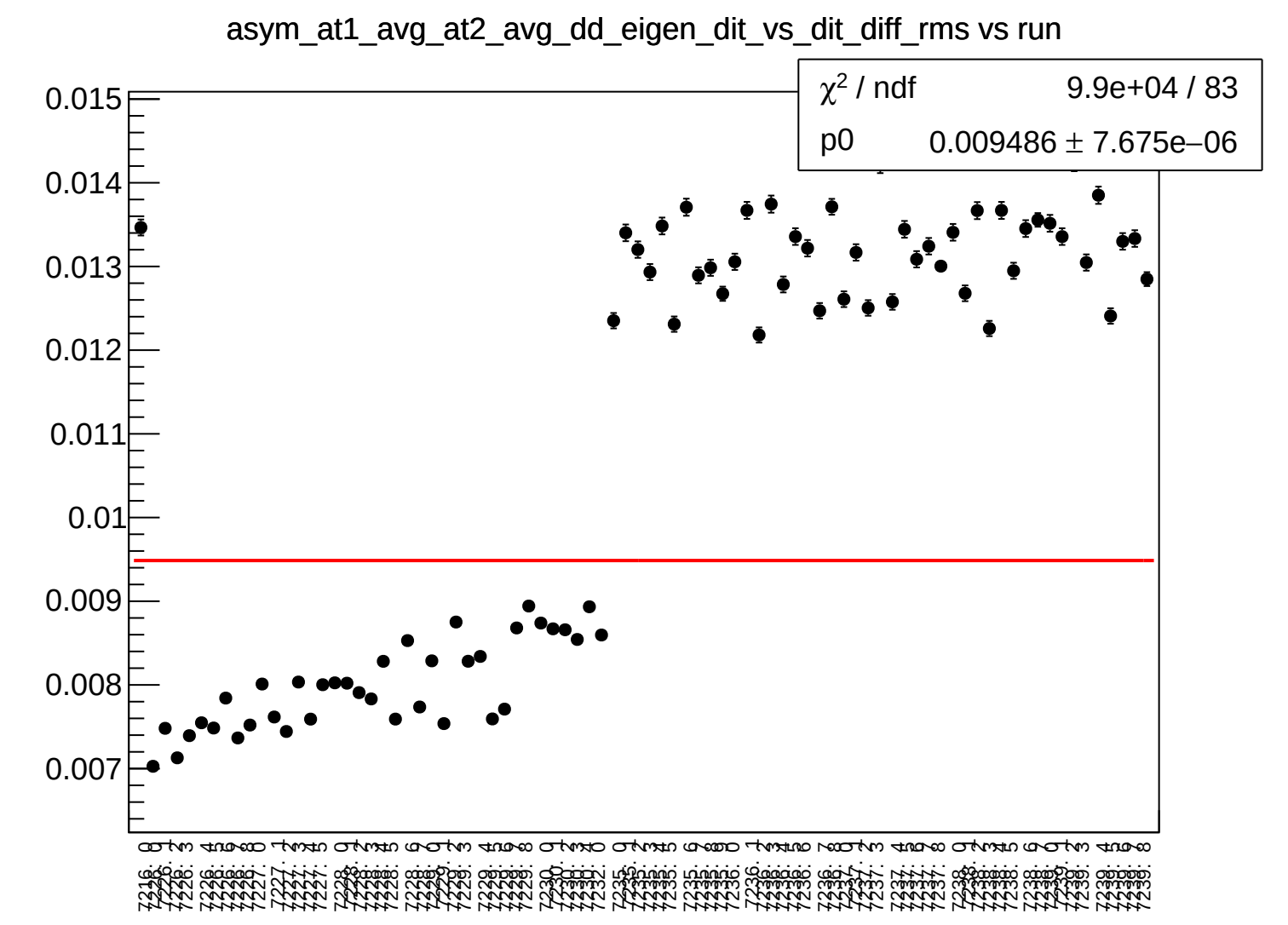
asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run



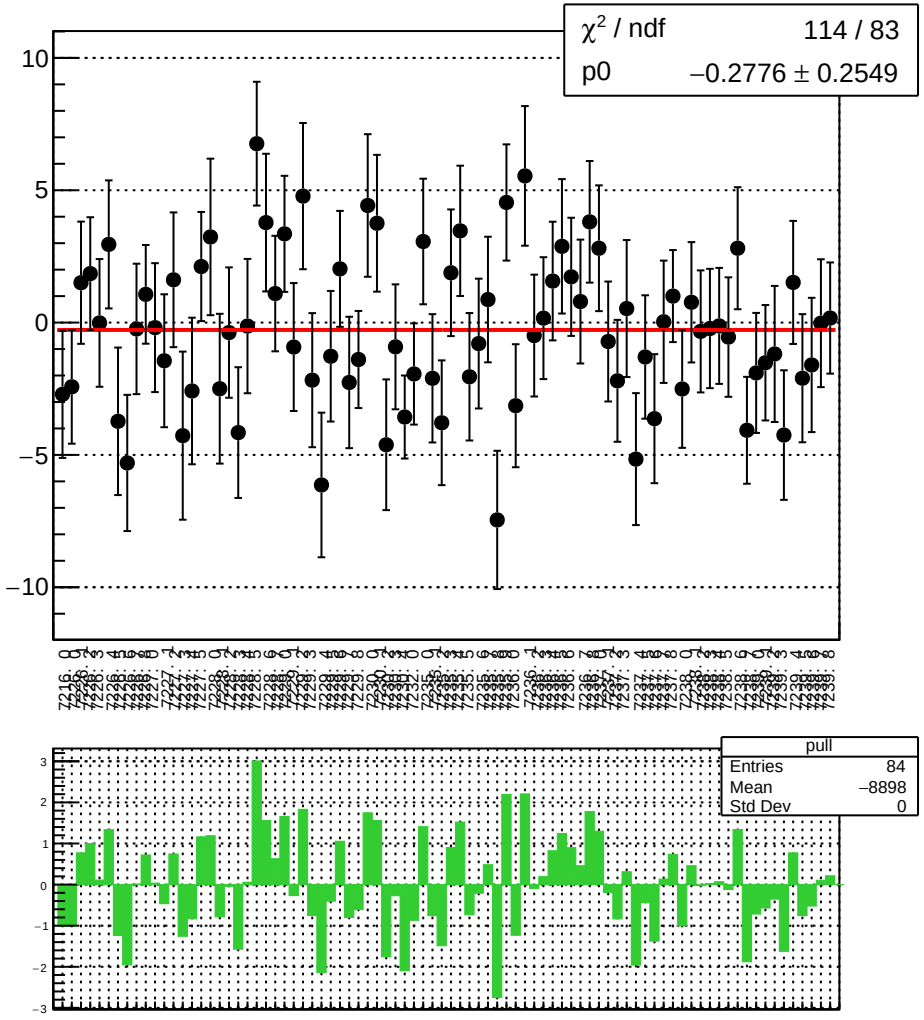


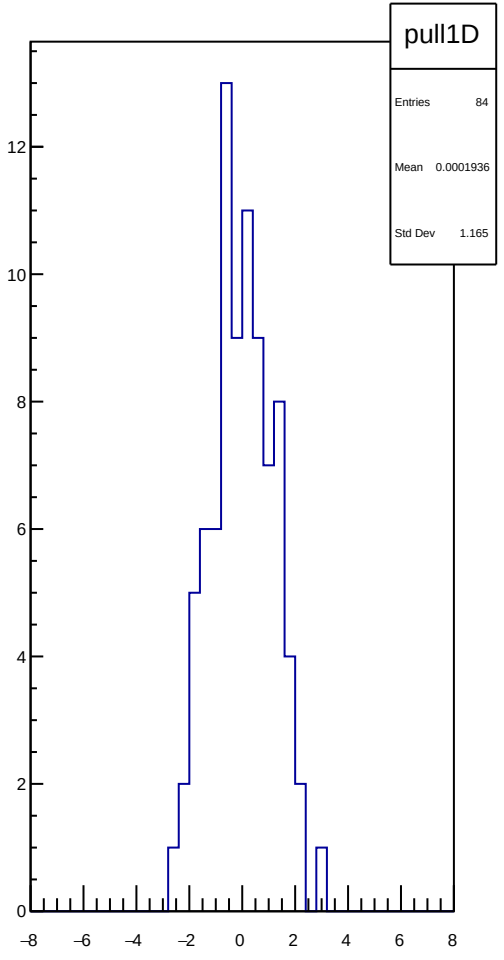

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9955 / 83
p0 229.2 ± 0.1803
300
280
260
240
220
200
180

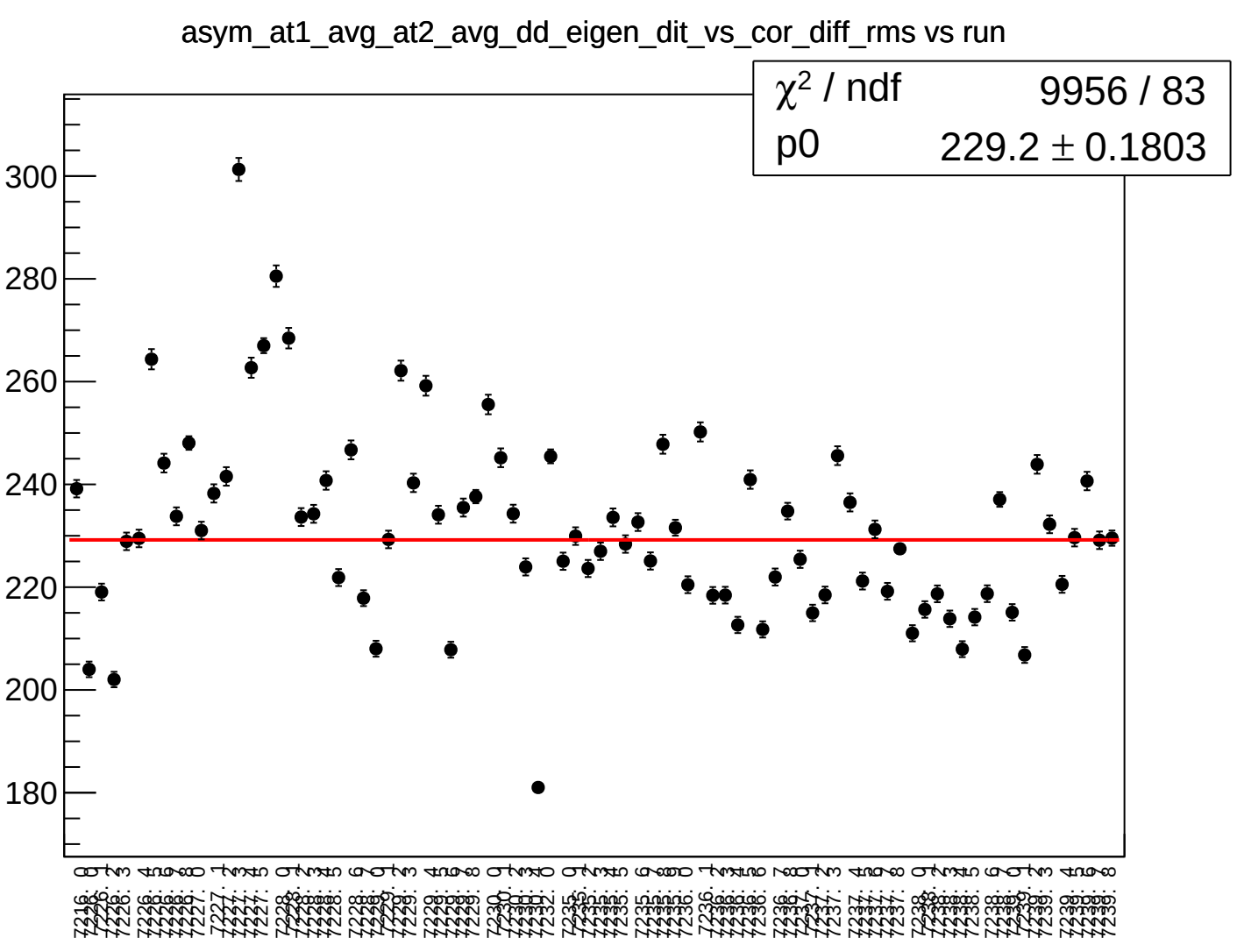

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 104 / 83
p0 −4.396e−06 ± 1.085e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 84
Mean 138.4
Std Dev 0
pull1D
Entries 84
Mean −0.01242
Std Dev 1.113
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

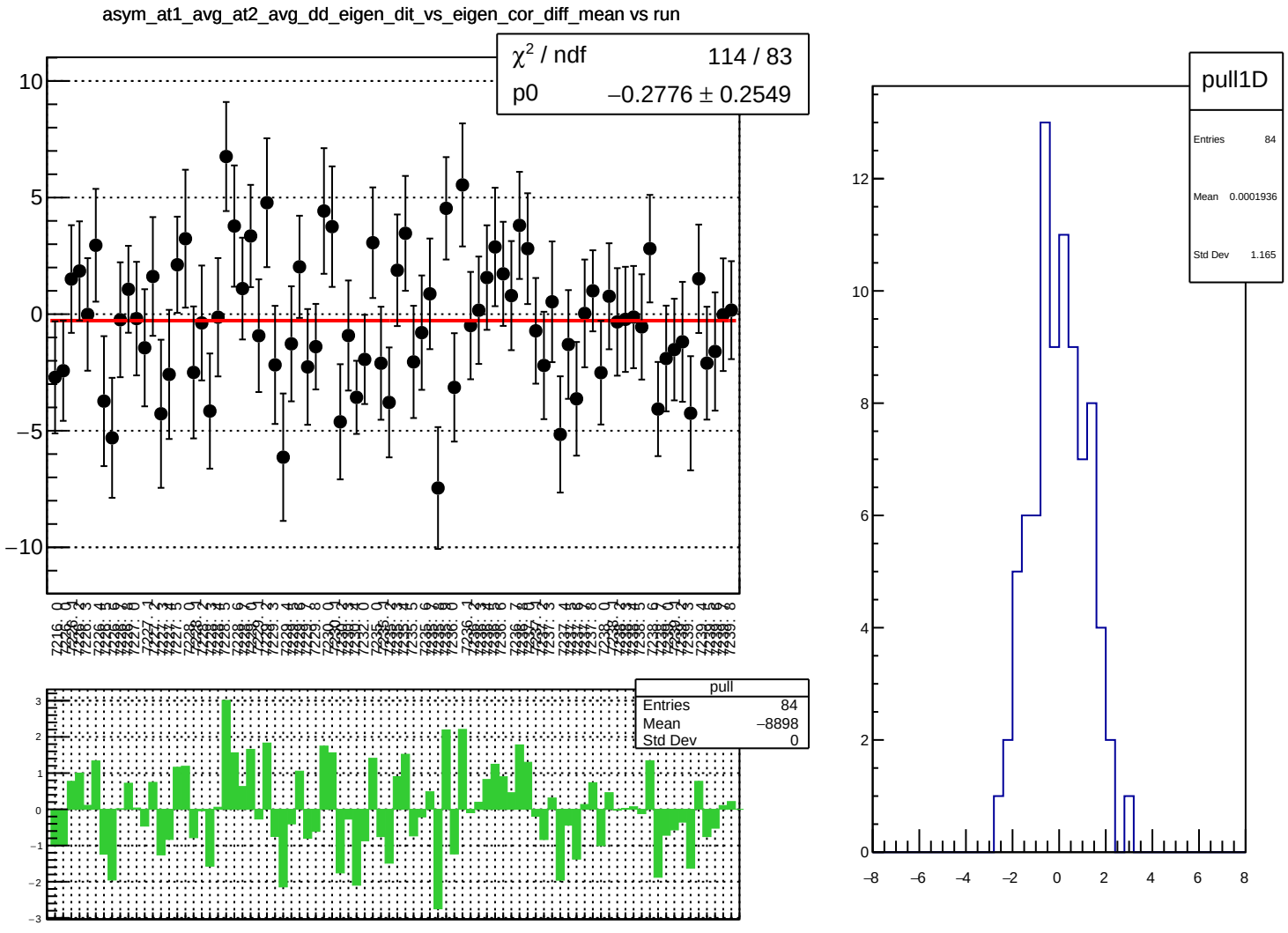

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.9e+04 / 83
p0 0.009486 ± 7.675e−06
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007

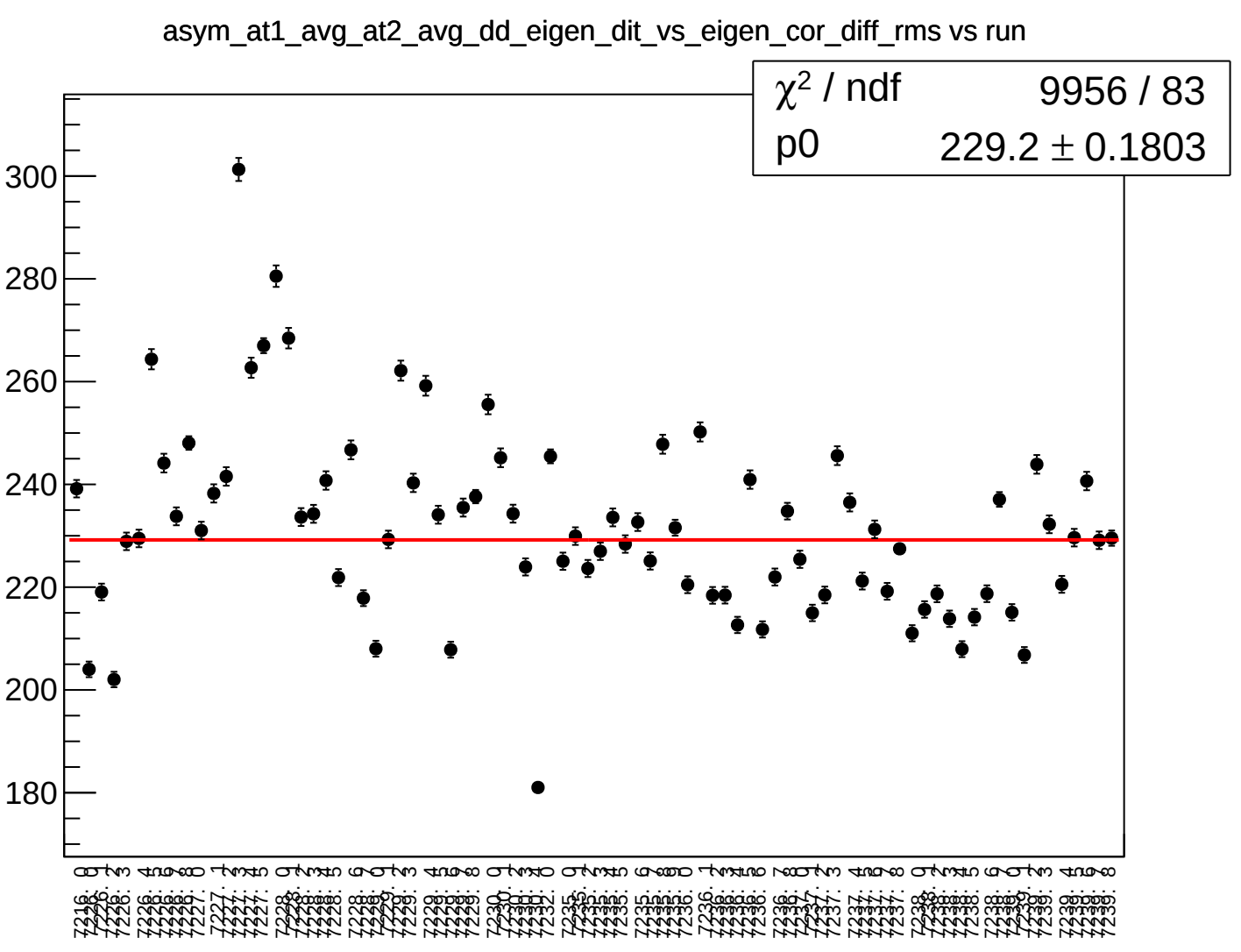
asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run

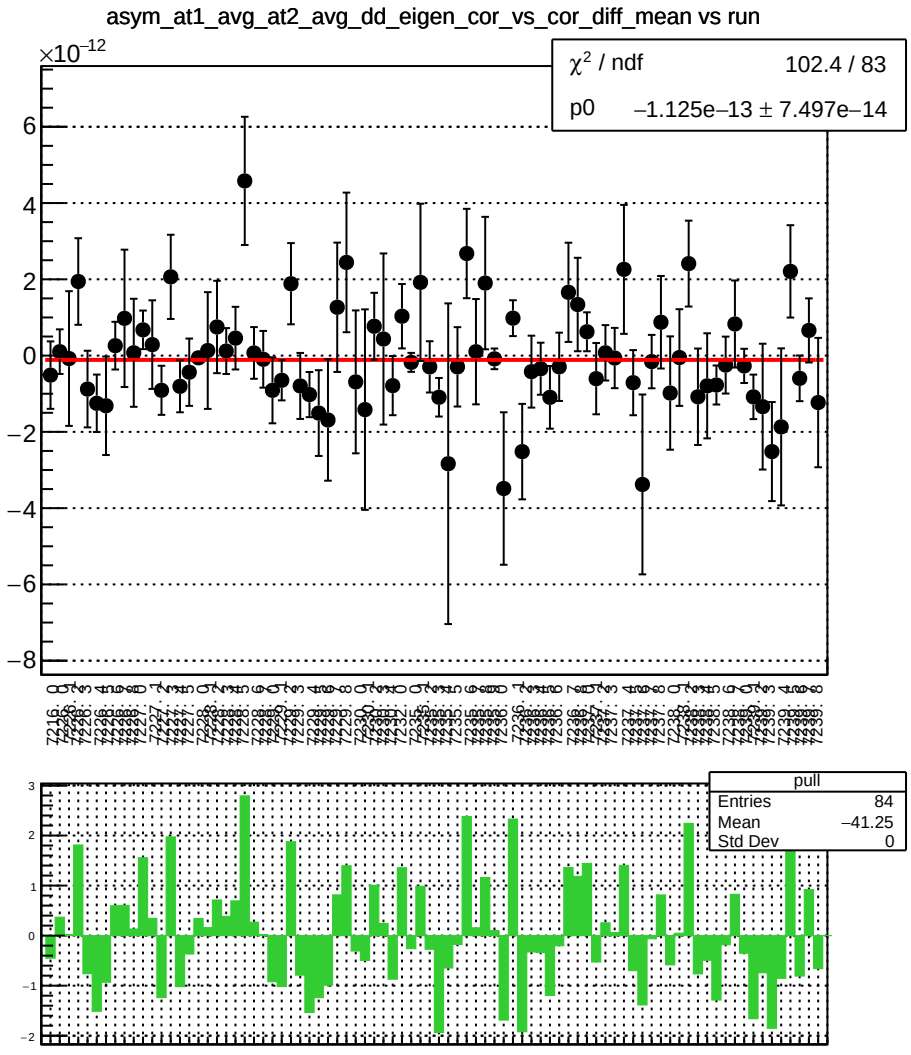


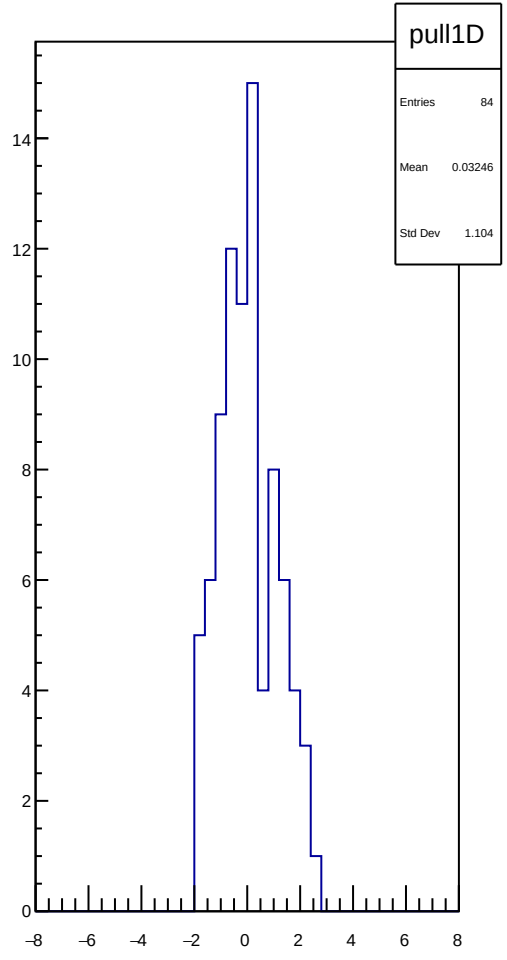


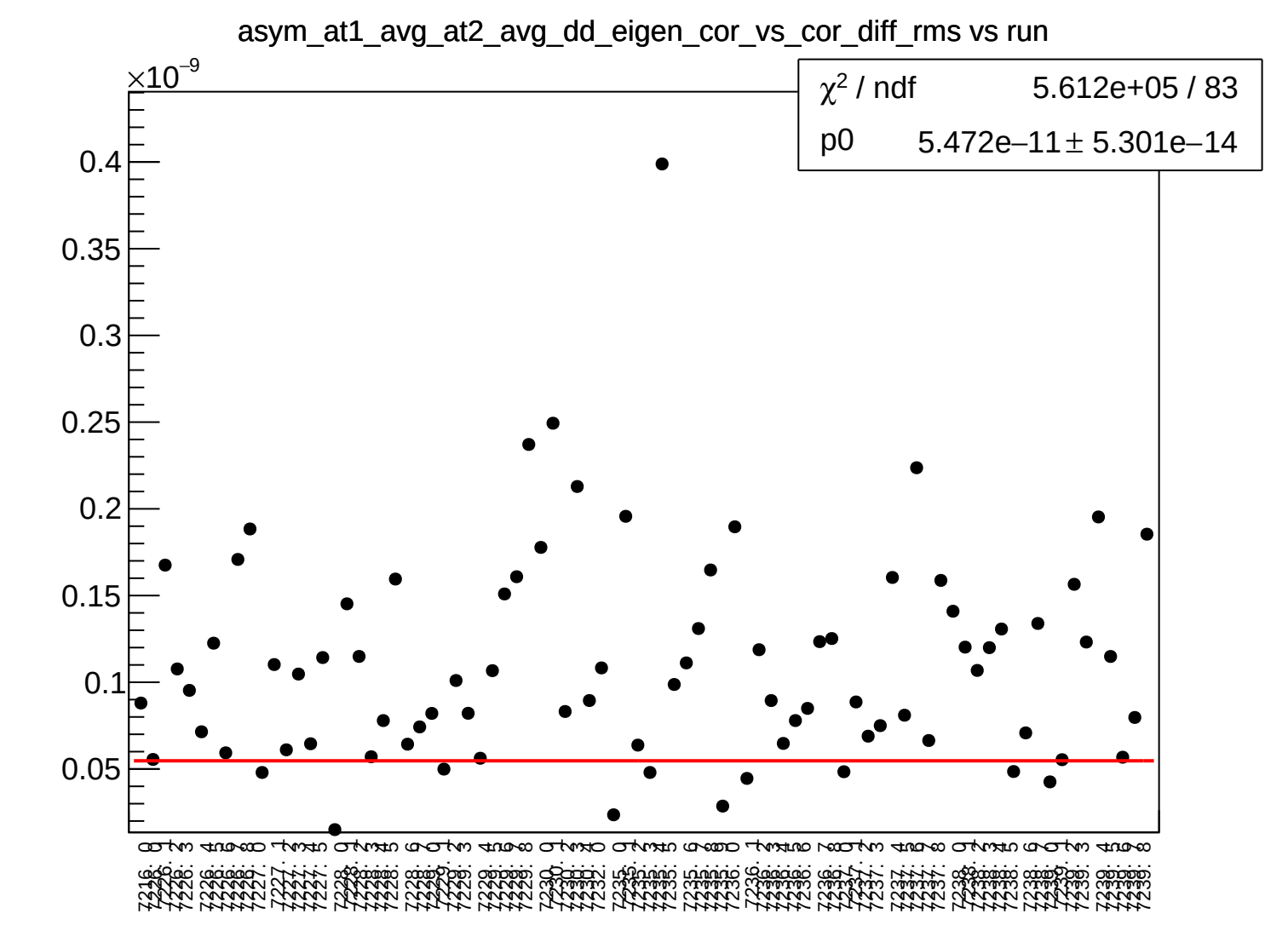

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9956 / 83
p0 229.2 ± 0.1803
300
280
260
240
220
200
180

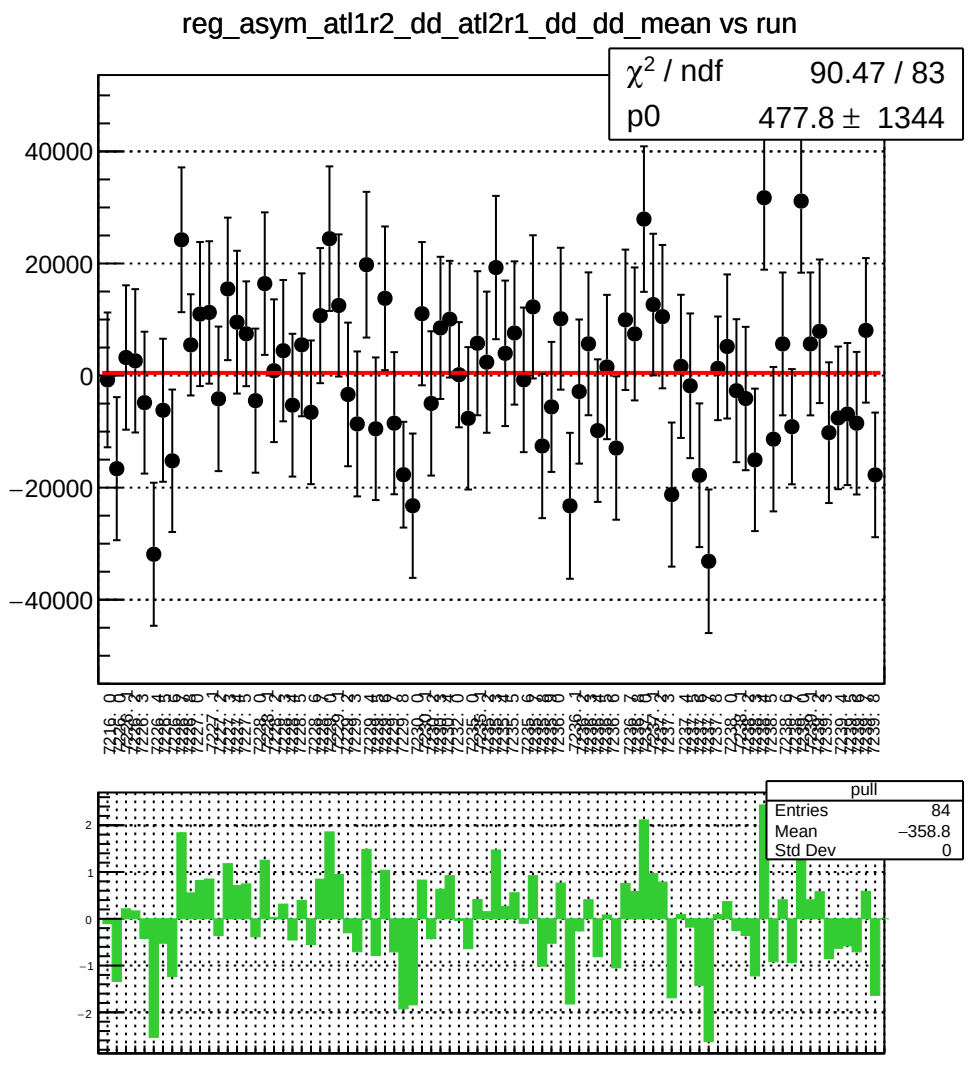

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 114 / 83
p0 −0.2776 ± 0.2549
pull
Entries 84
Mean −8898
Std Dev 0
pull1D
Entries 84
Mean 0.0001936
Std Dev 1.165

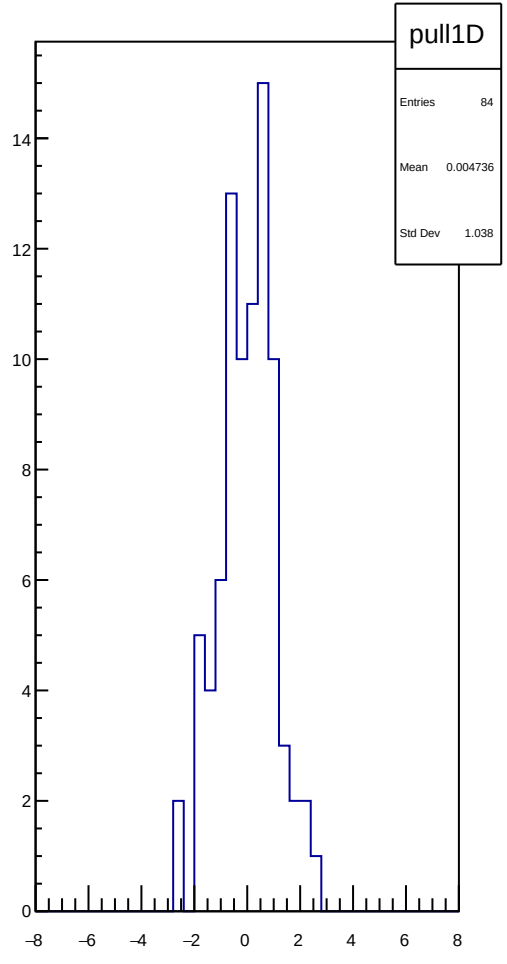

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9956 / 83
p0 229.2 ± 0.1803
300
280
260
240
220
200
180

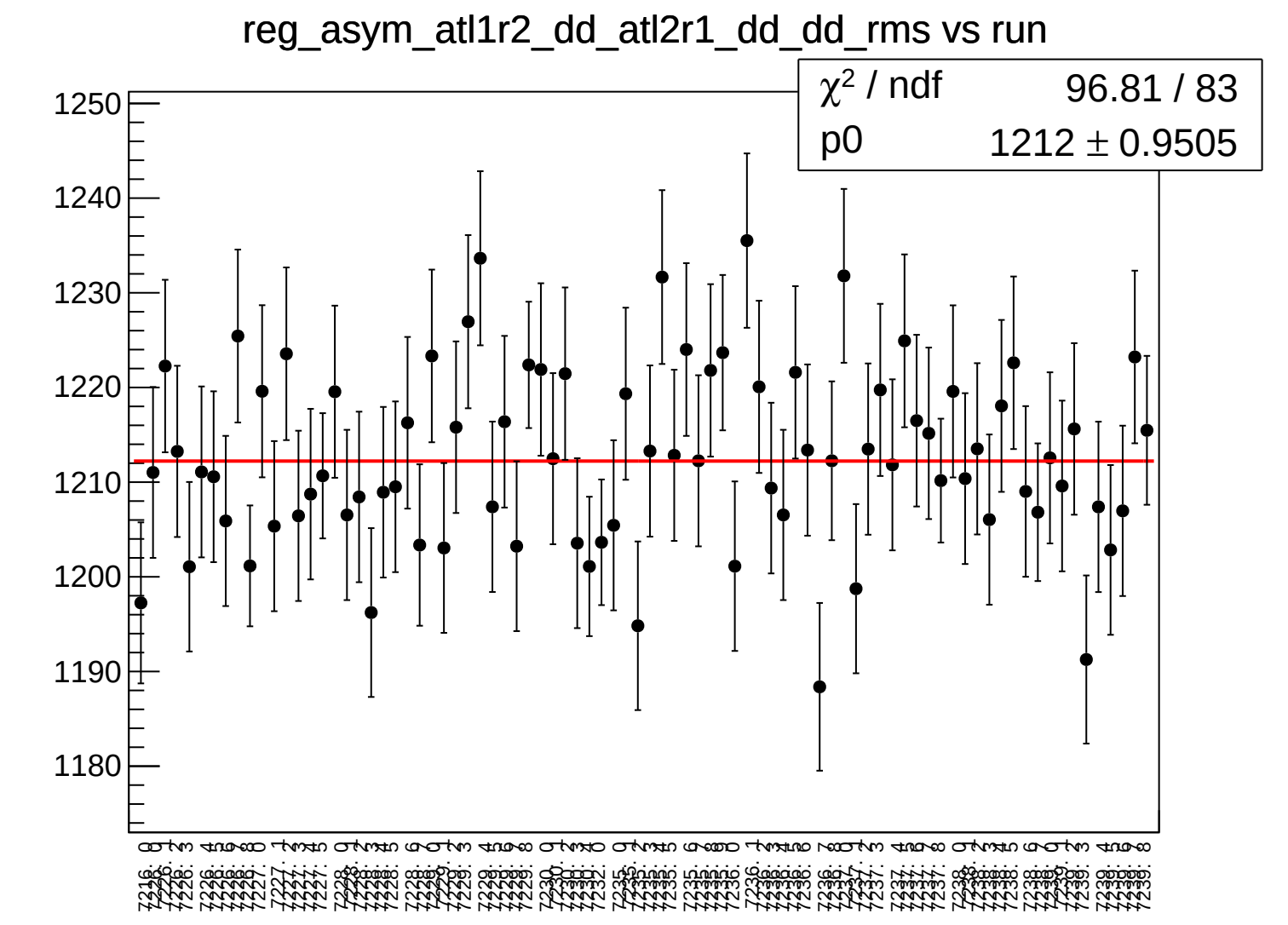

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 102.4 / 83
p0 −1.125e−13 ± 7.497e−14
pull
Entries 84
Mean −41.25
Std Dev 0

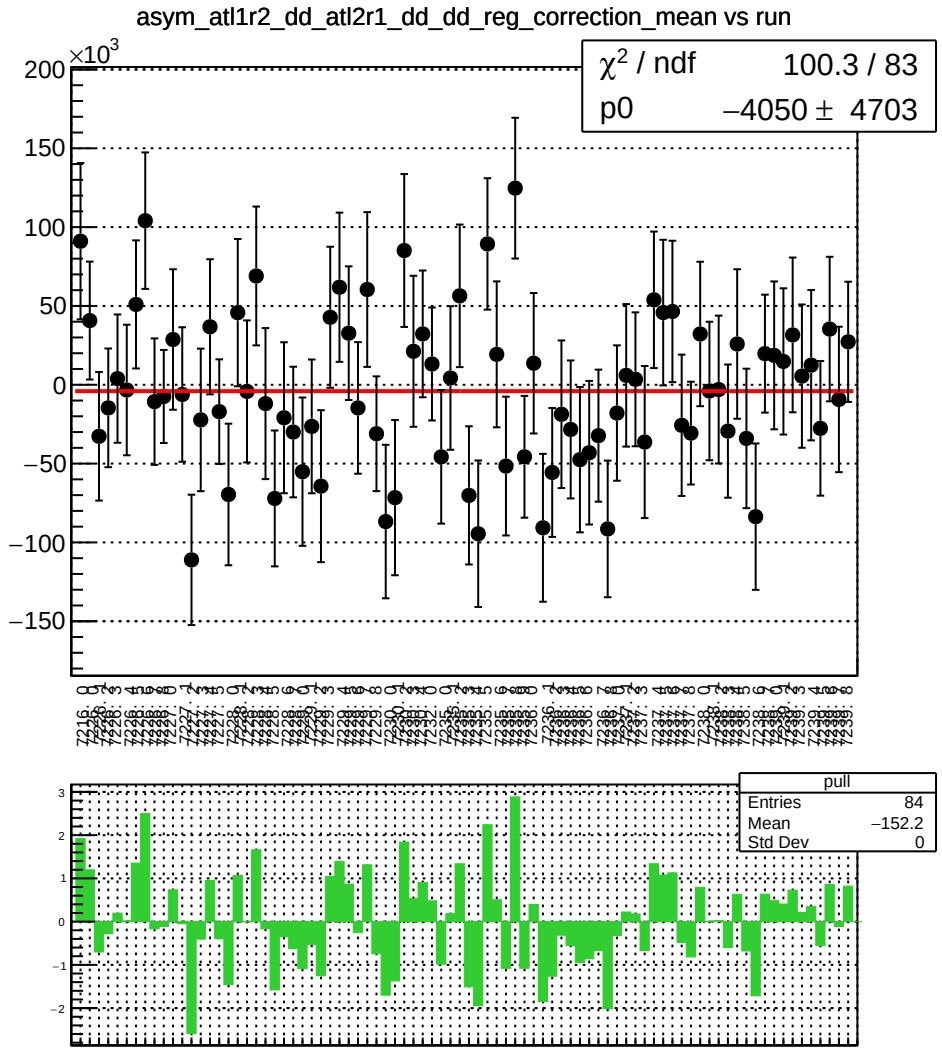

pull1D
Entries 84
Mean 0.03246
Std Dev 1.104

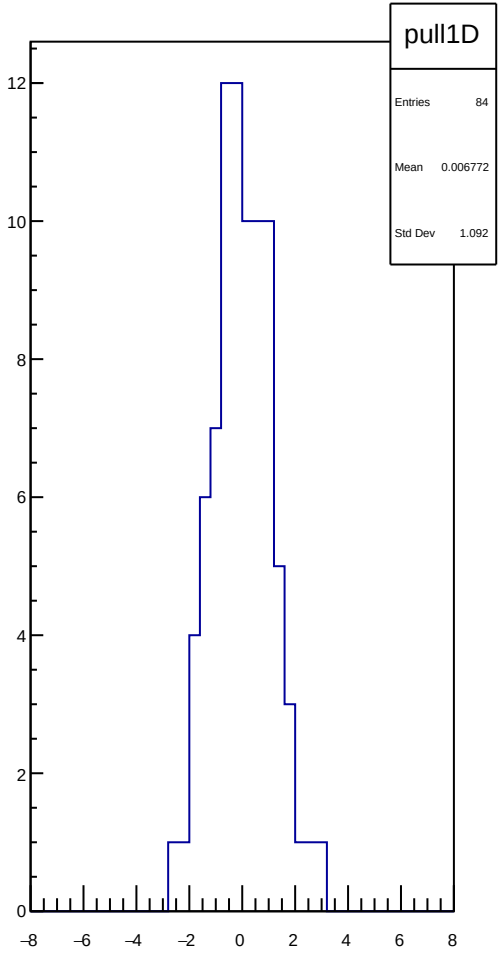

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.612e+05 / 83
p0 5.472e−11 ± 5.301e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

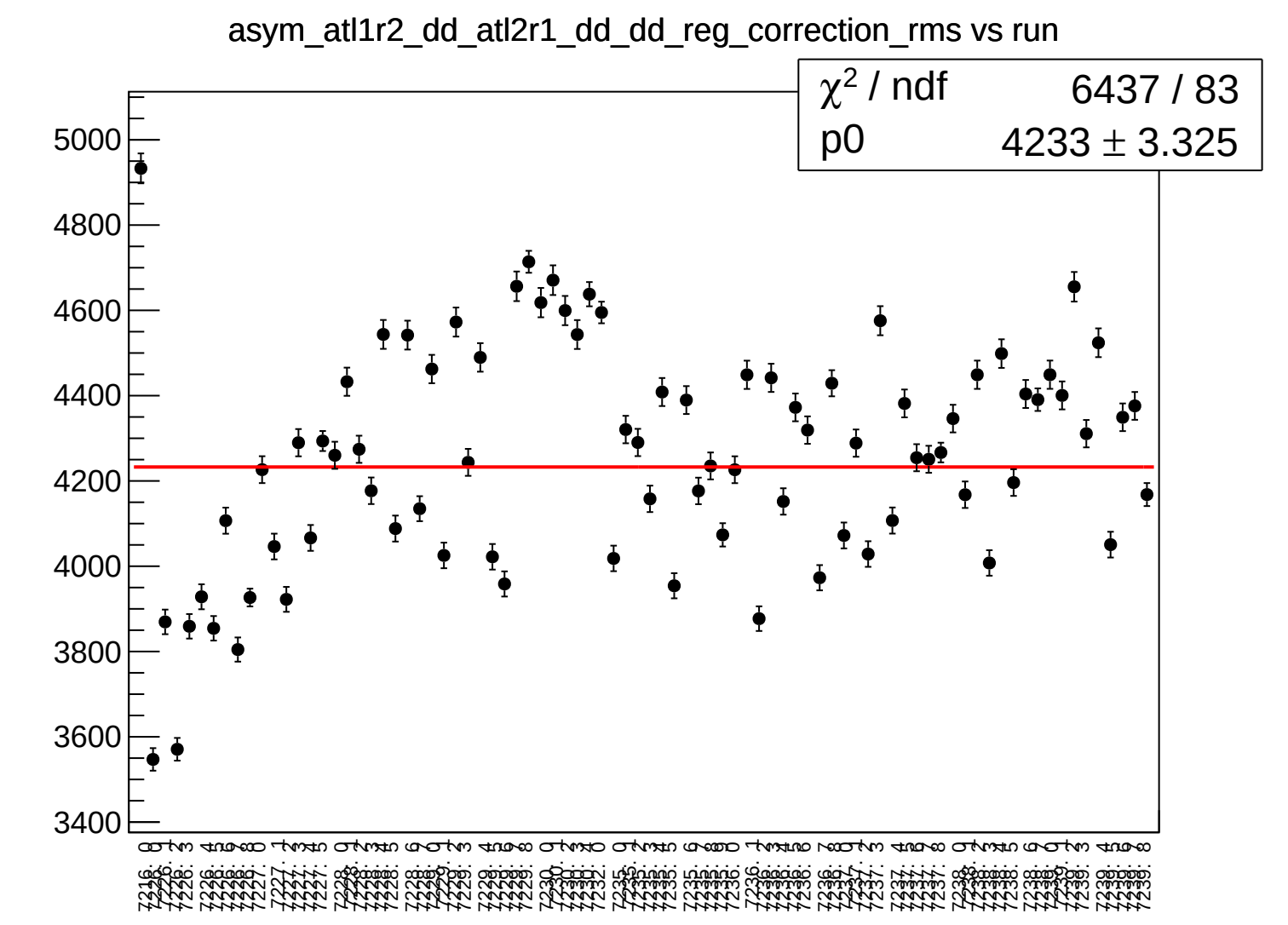

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 90.47 / 83
p0 477.8 ± 1344
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −358.8
Std Dev 0
2
1
0
−1
−2

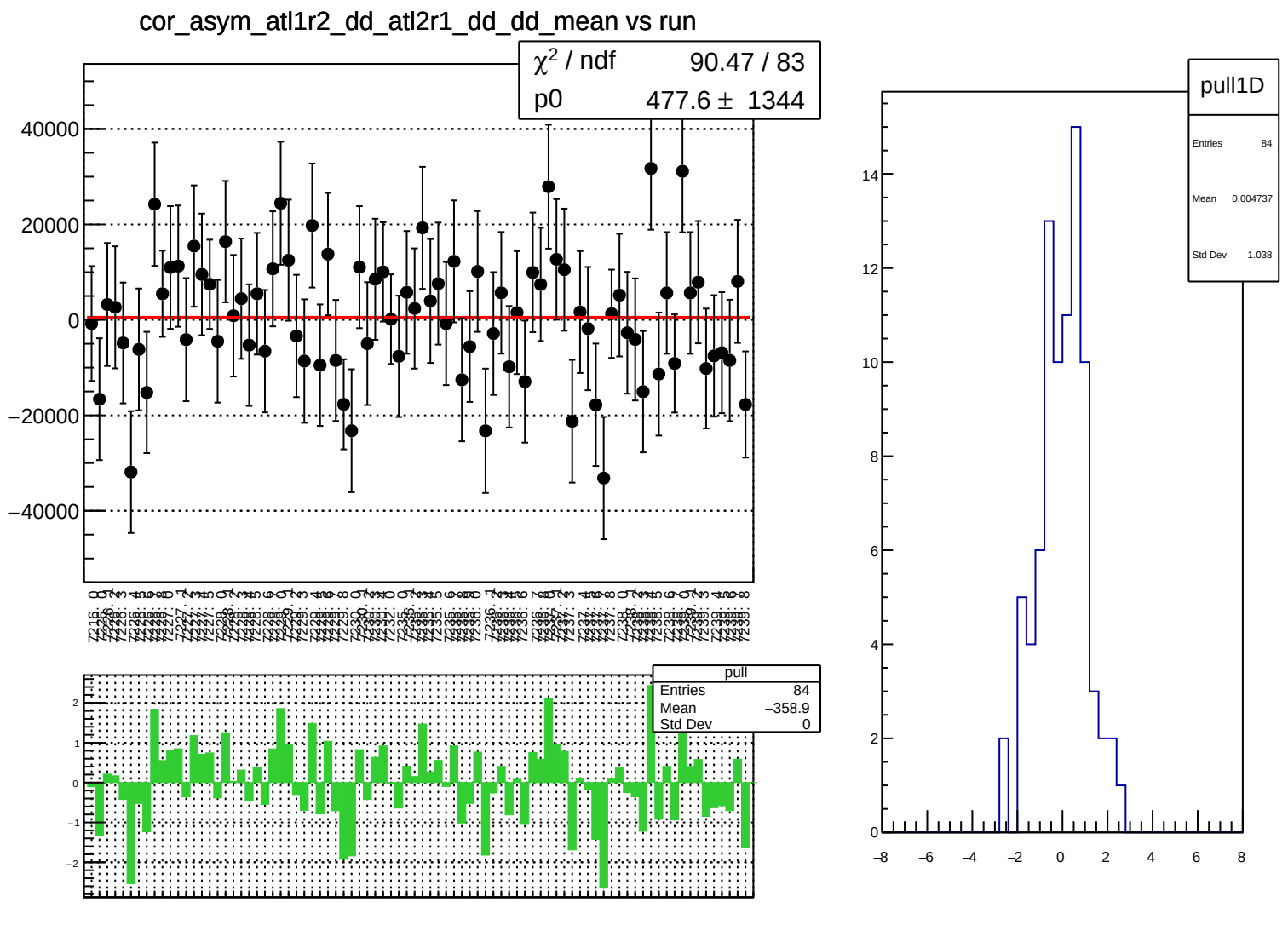

pull1D
Entries 84
Mean 0.004736
Std Dev 1.038
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

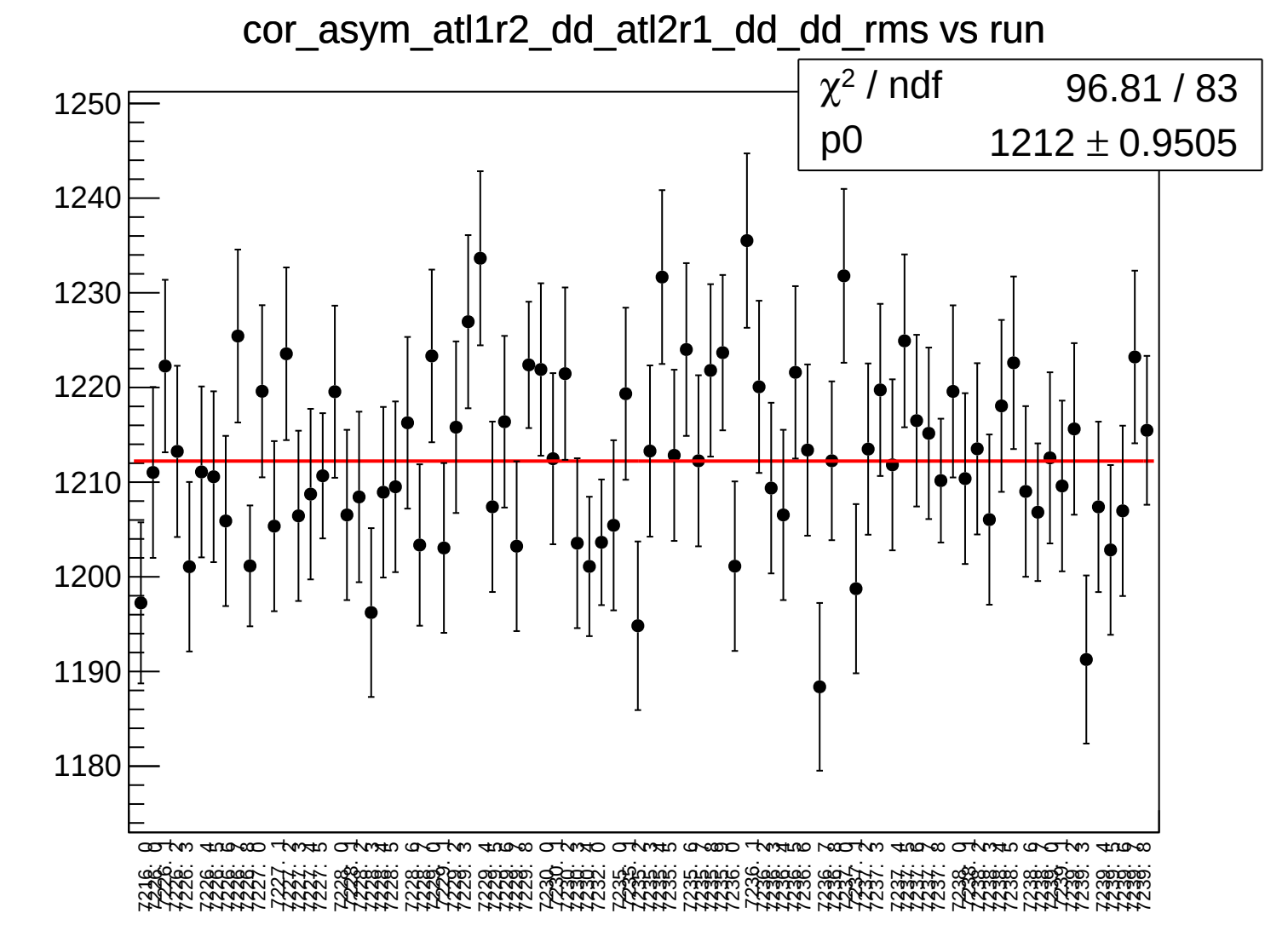

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 96.81 / 83
p0 1212 ± 0.9505
1250
1240
1230
1220
1210
1200
1190
1180

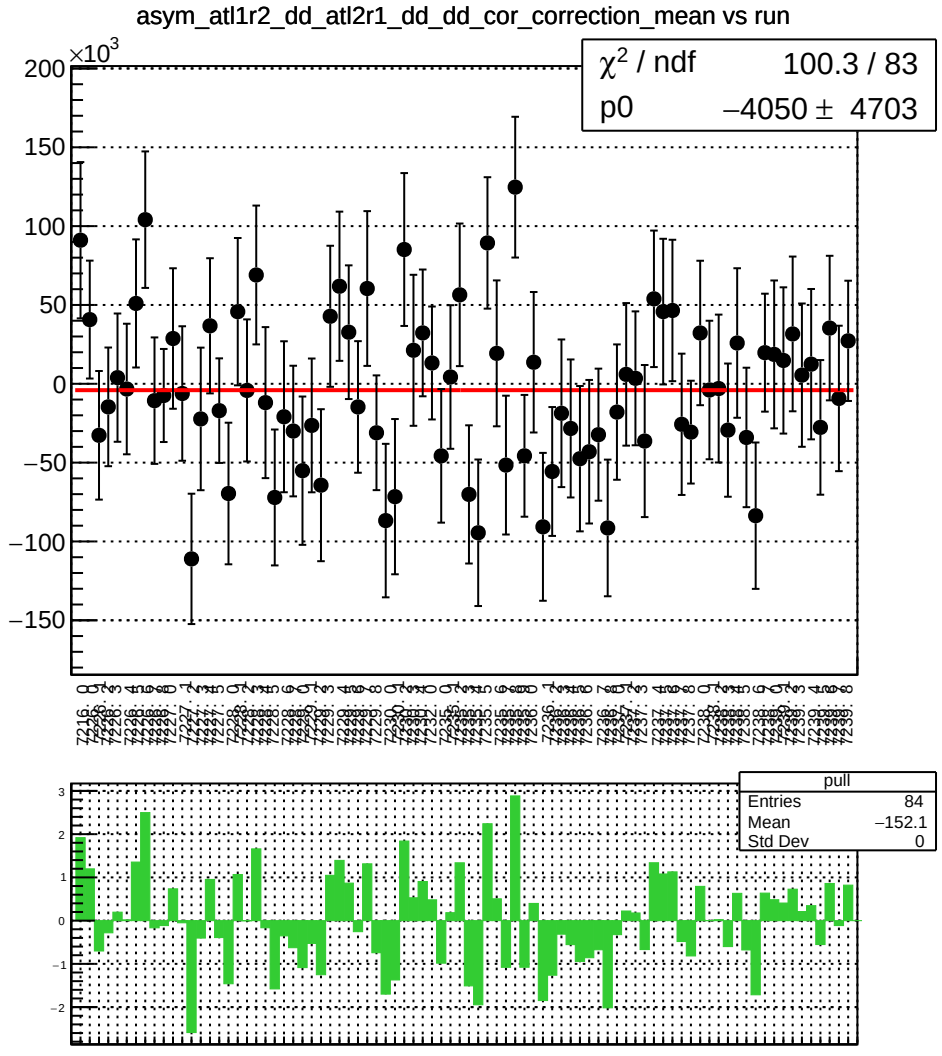

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 100.3 / 83
p0 −4050 ± 4703
pull
Entries 84
Mean −152.2
Std Dev 0

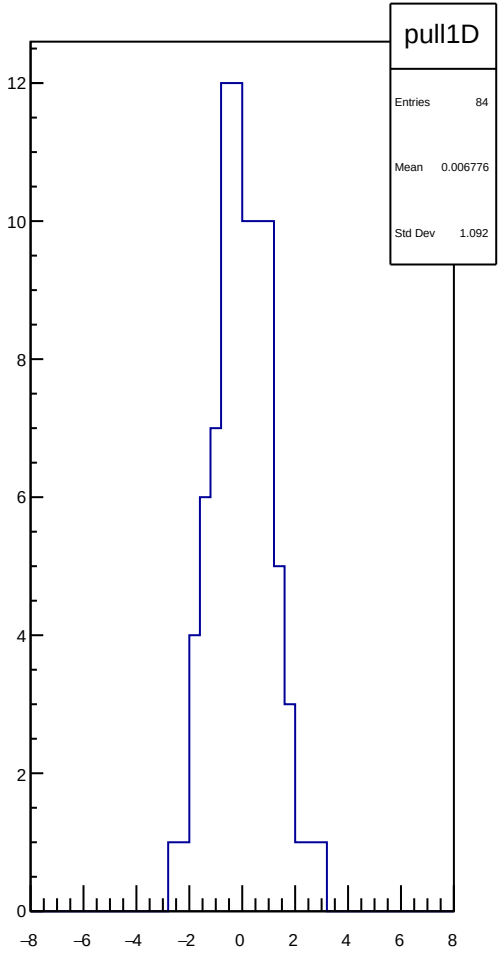

pull1D
Entries 84
Mean 0.006772
Std Dev 1.092

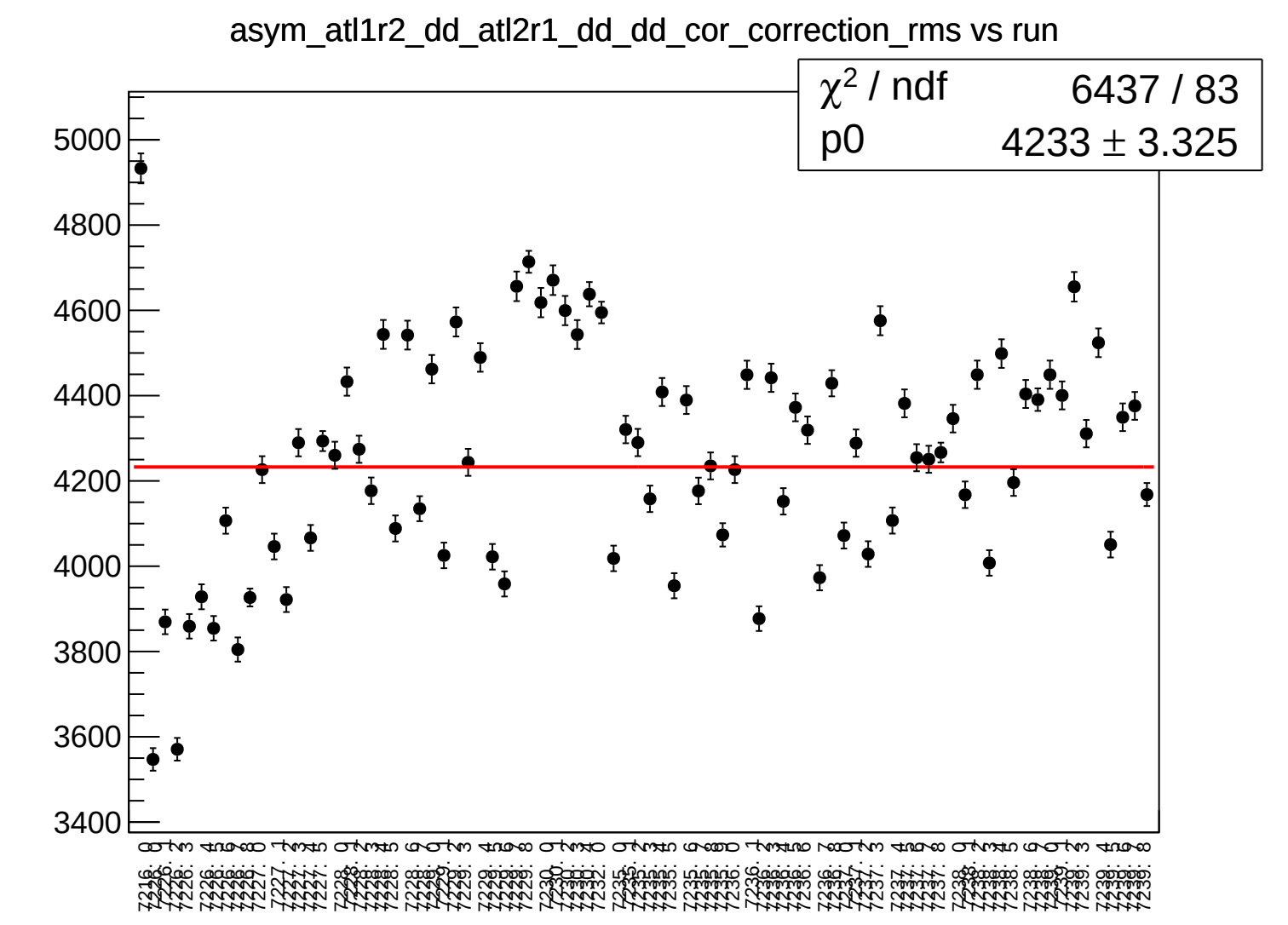

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 6437 / 83
p0 4233 ± 3.325
5000
4800
4600
4400
4200
4000
3800
3600
3400

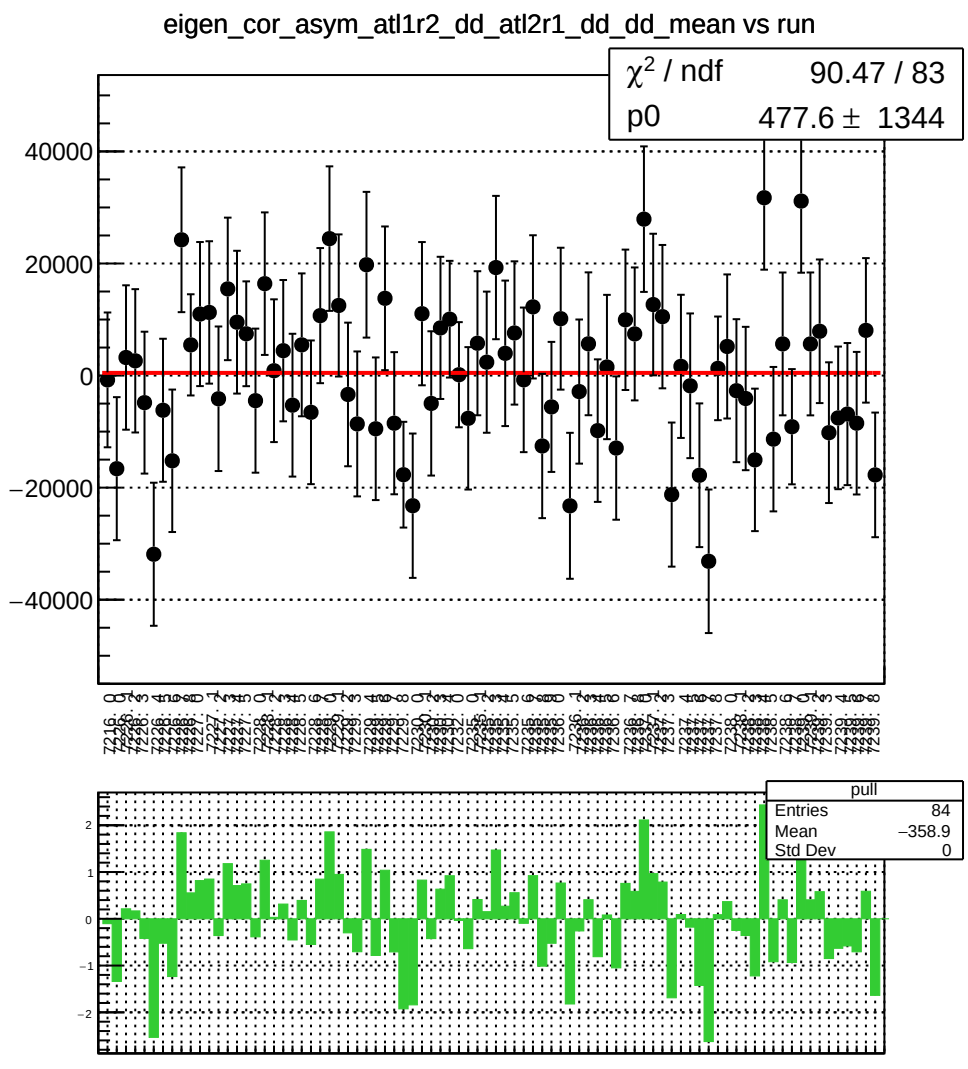

cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 90.47 / 83
p0 477.6 ± 1344
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −358.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.004737
Std Dev 1.038
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

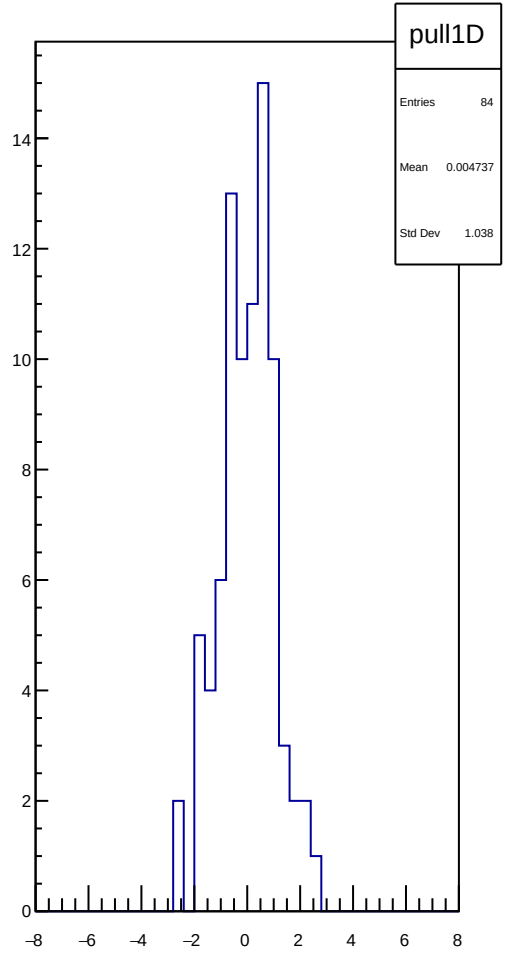

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ^2 / ndf 96.81 / 83
p0 1212 ± 0.9505
1250
1240
1230
1220
1210
1200
1190
1180

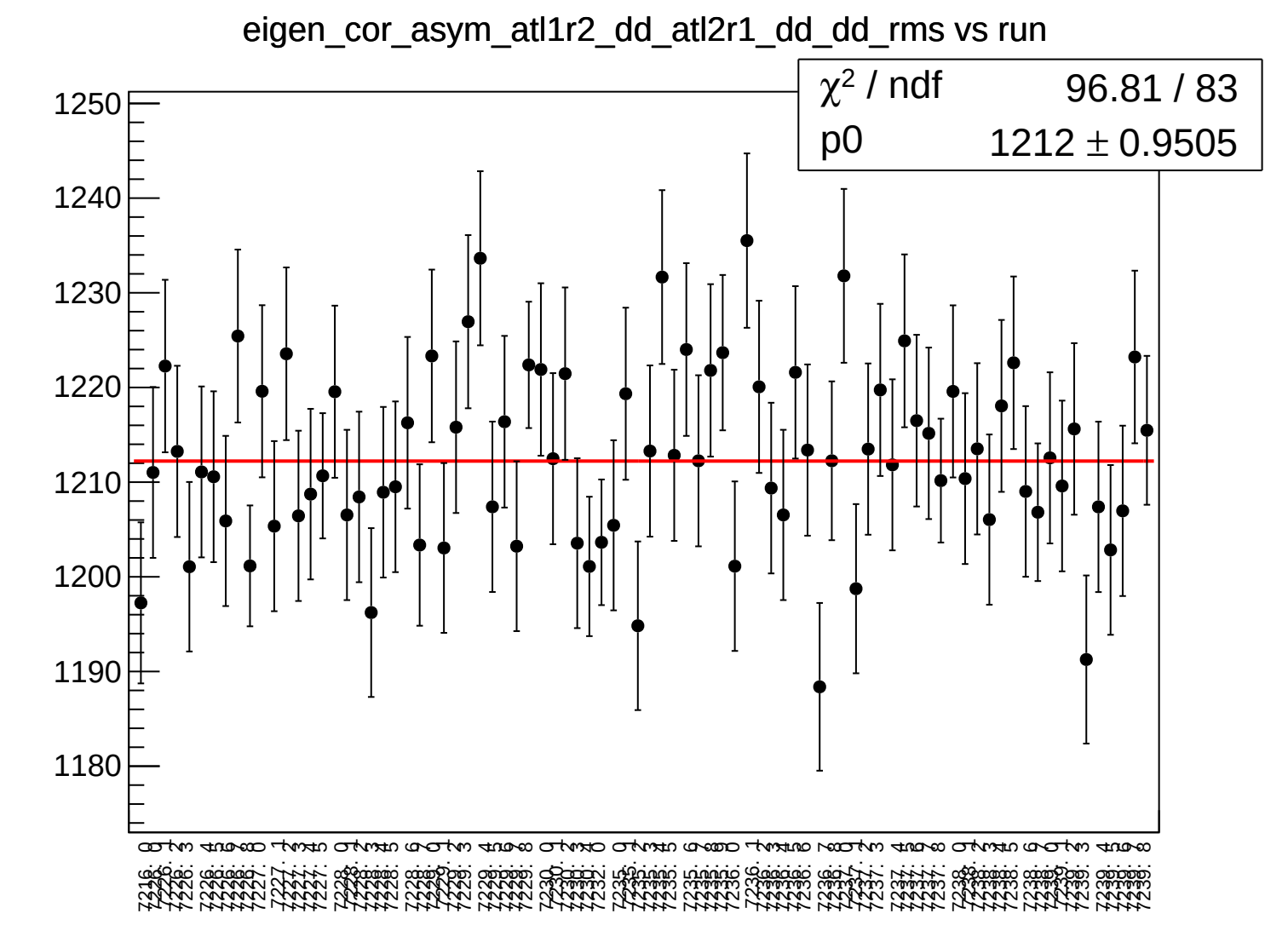

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
×10^3
χ² / ndf 100.3 / 83
p0 −4050 ± 4703
pull
Entries 84
Mean −152.1
Std Dev 0

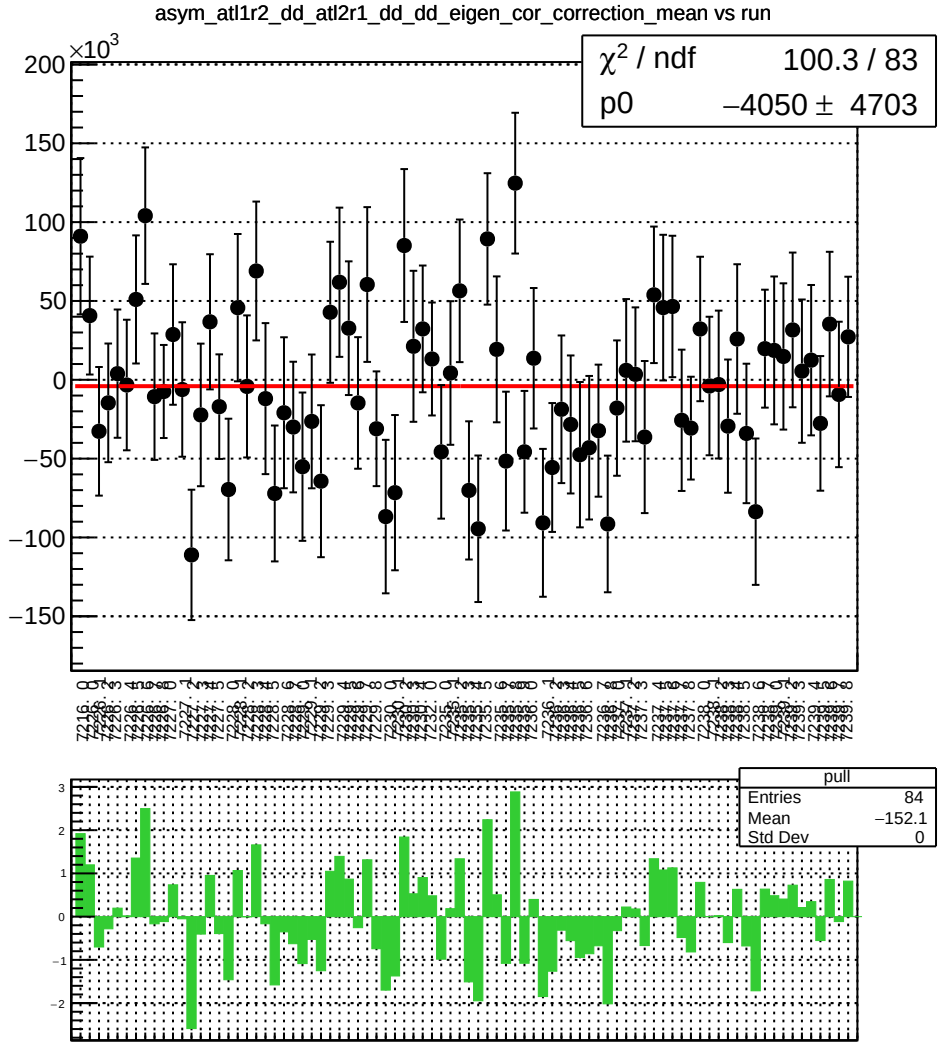

pull1D
Entries 84
Mean 0.006776
Std Dev 1.092

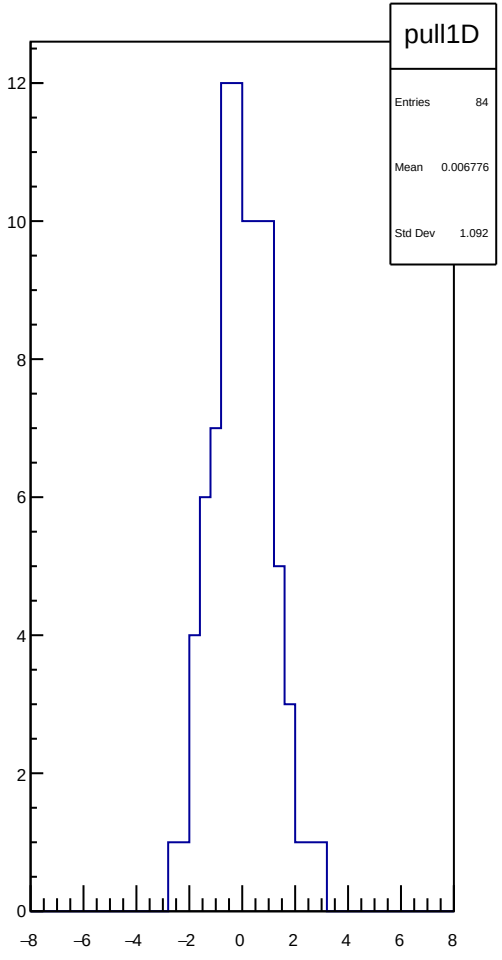

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 6437 / 83
p0 4233 ± 3.325
5000
4800
4600
4400
4200
4000
3800
3600
3400

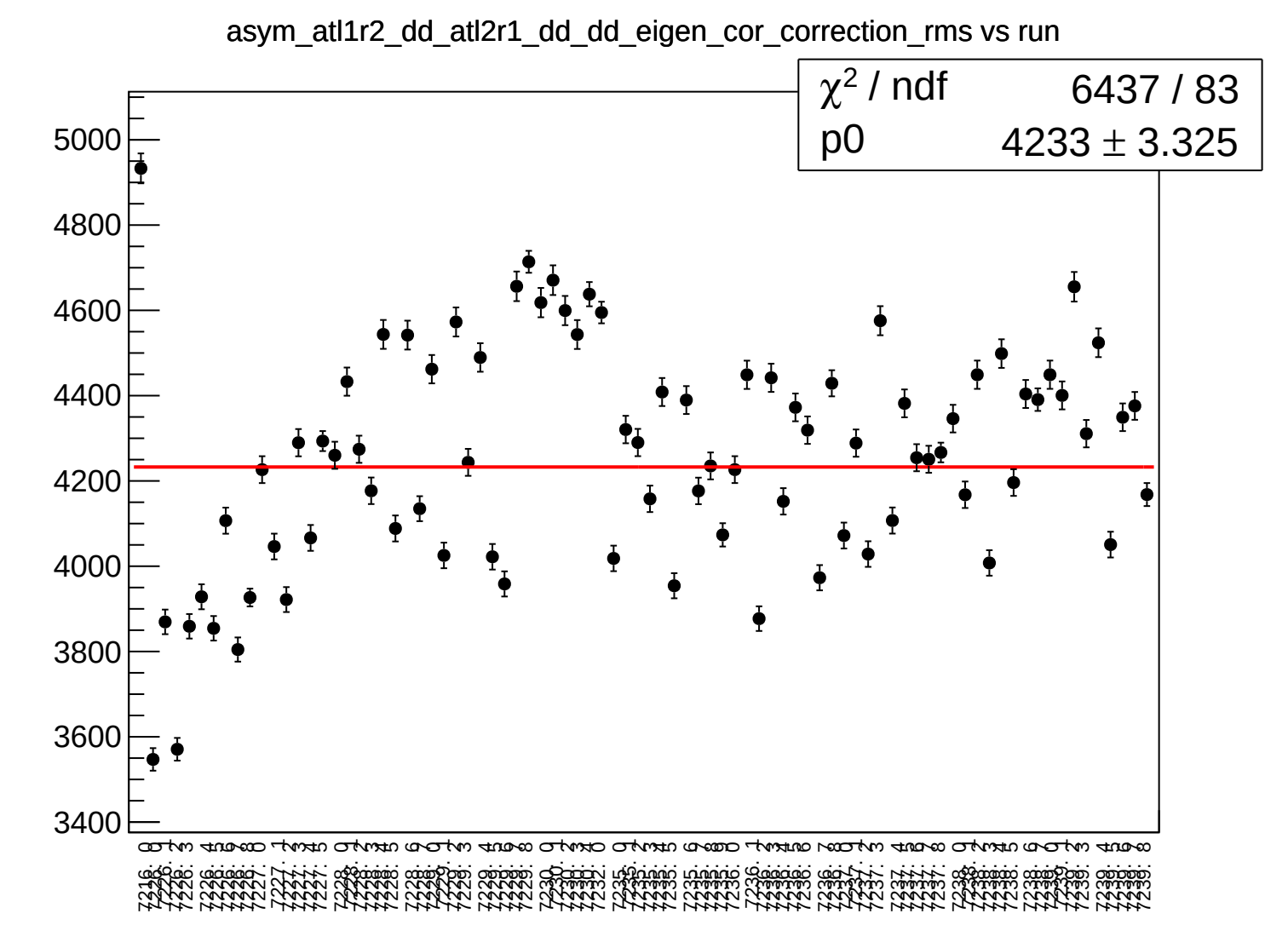

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 90.47 / 83
p0 477.6 ± 1344
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −358.9
Std Dev 0
2
1
0
−1
−2

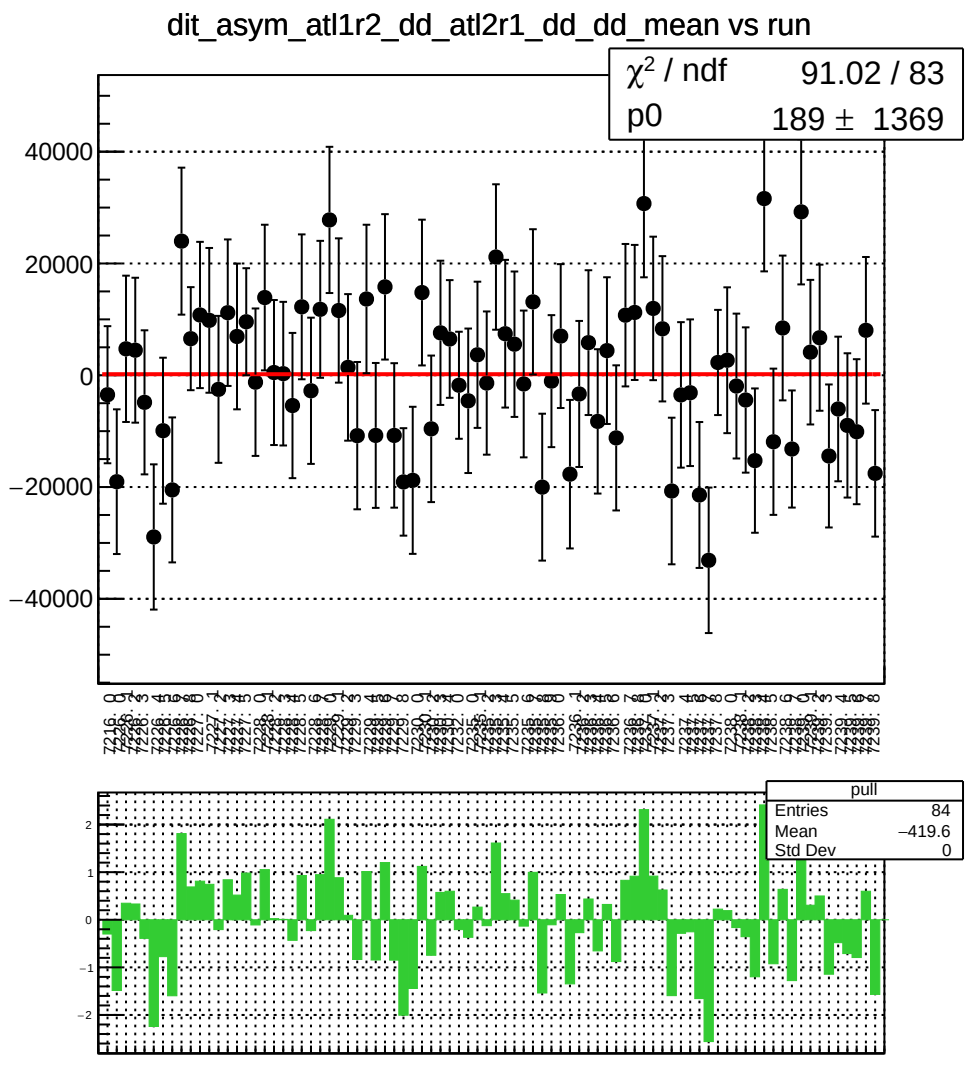

pull1D
Entries 84
Mean 0.004737
Std Dev 1.038
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

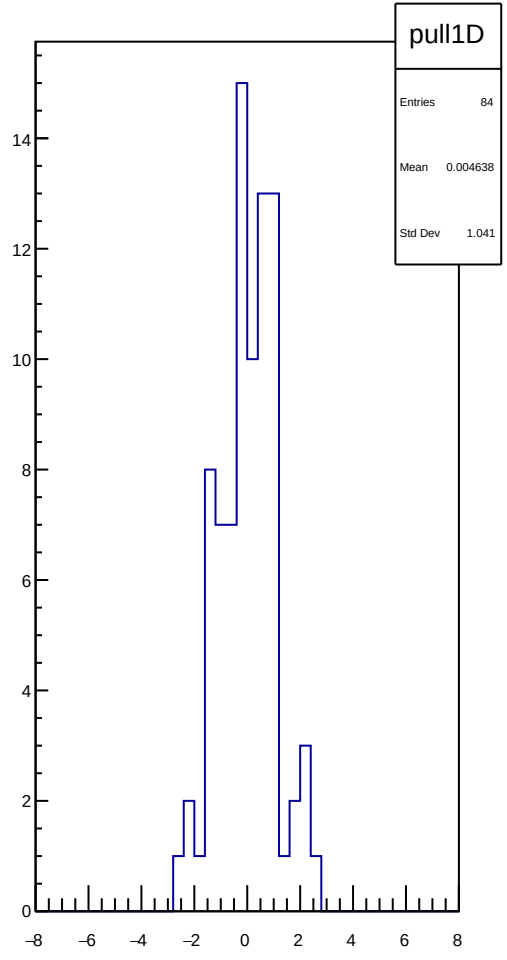

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 96.81 / 83
p0 1212 ± 0.9505
1250
1240
1230
1220
1210
1200
1190
1180

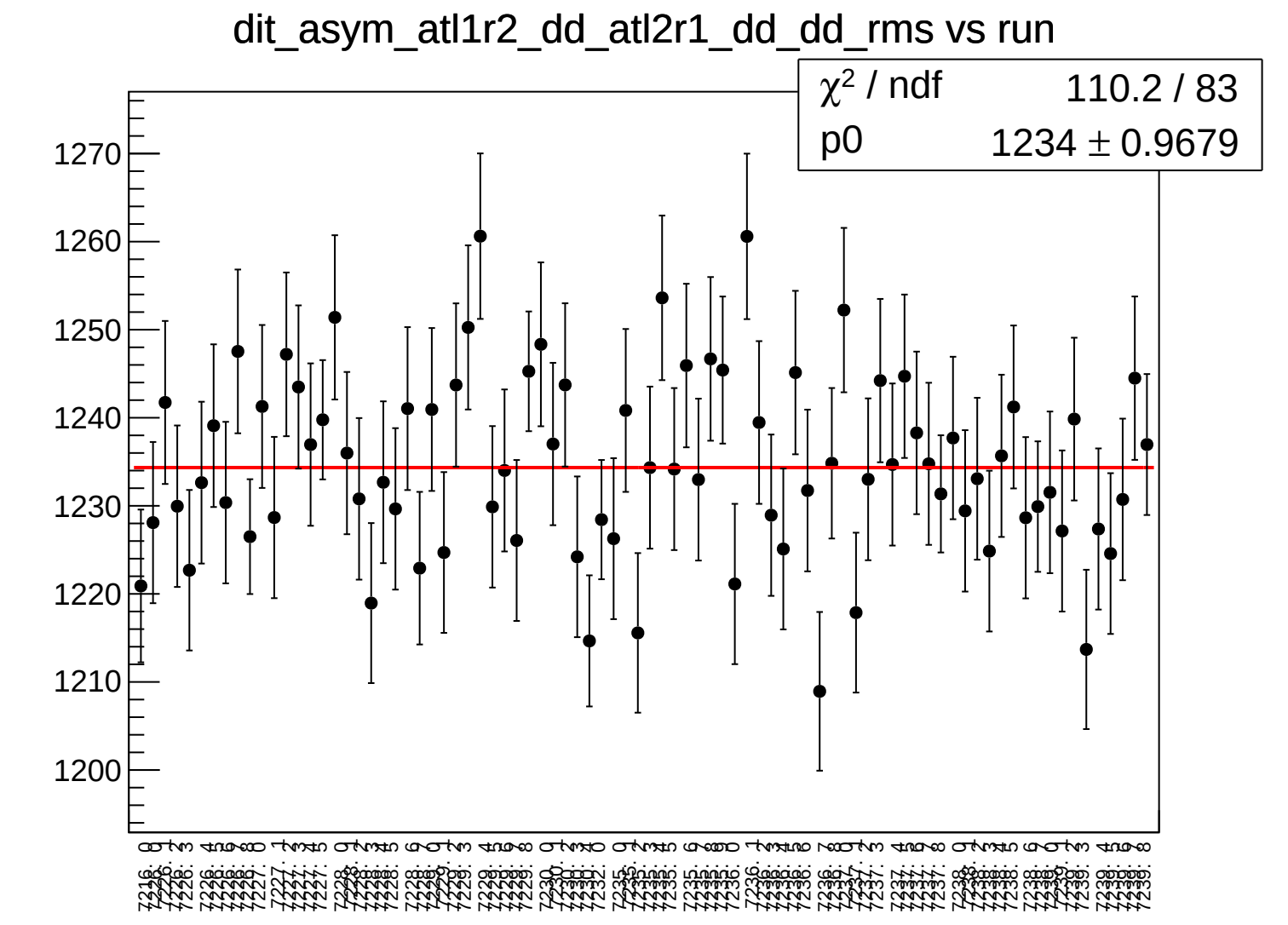

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 100.3 / 83
p0 −4050 ± 4703
pull
Entries 84
Mean −152.1
Std Dev 0

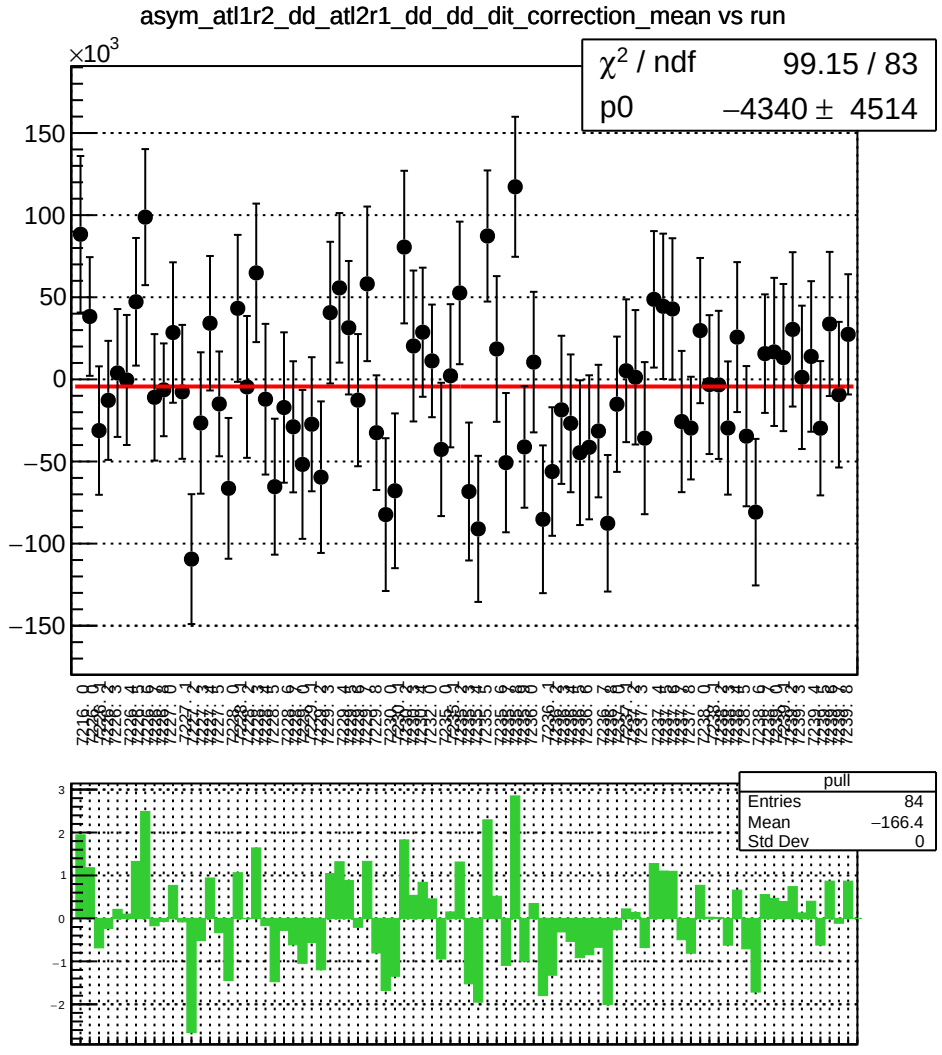

pull1D
Entries 84
Mean 0.006776
Std Dev 1.092

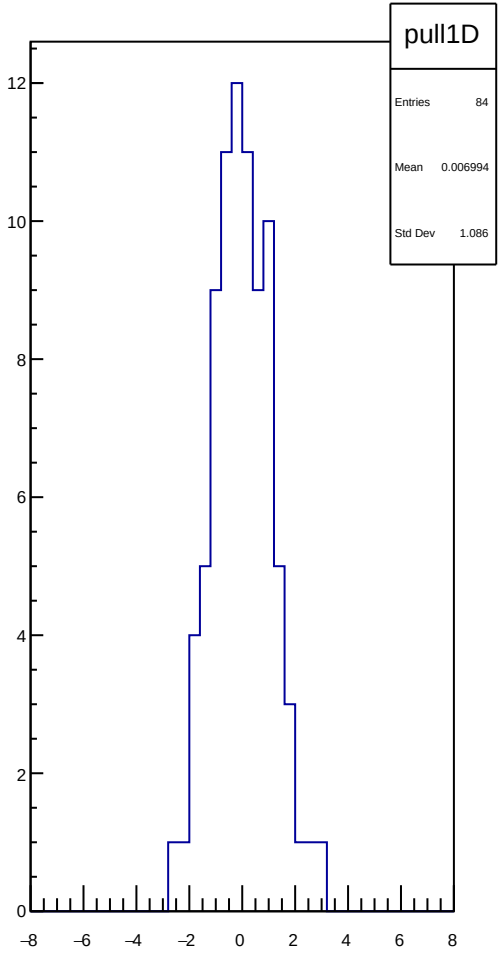

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 6437 / 83
p0 4233 ± 3.325
5000
4800
4600
4400
4200
4000
3800
3600
3400

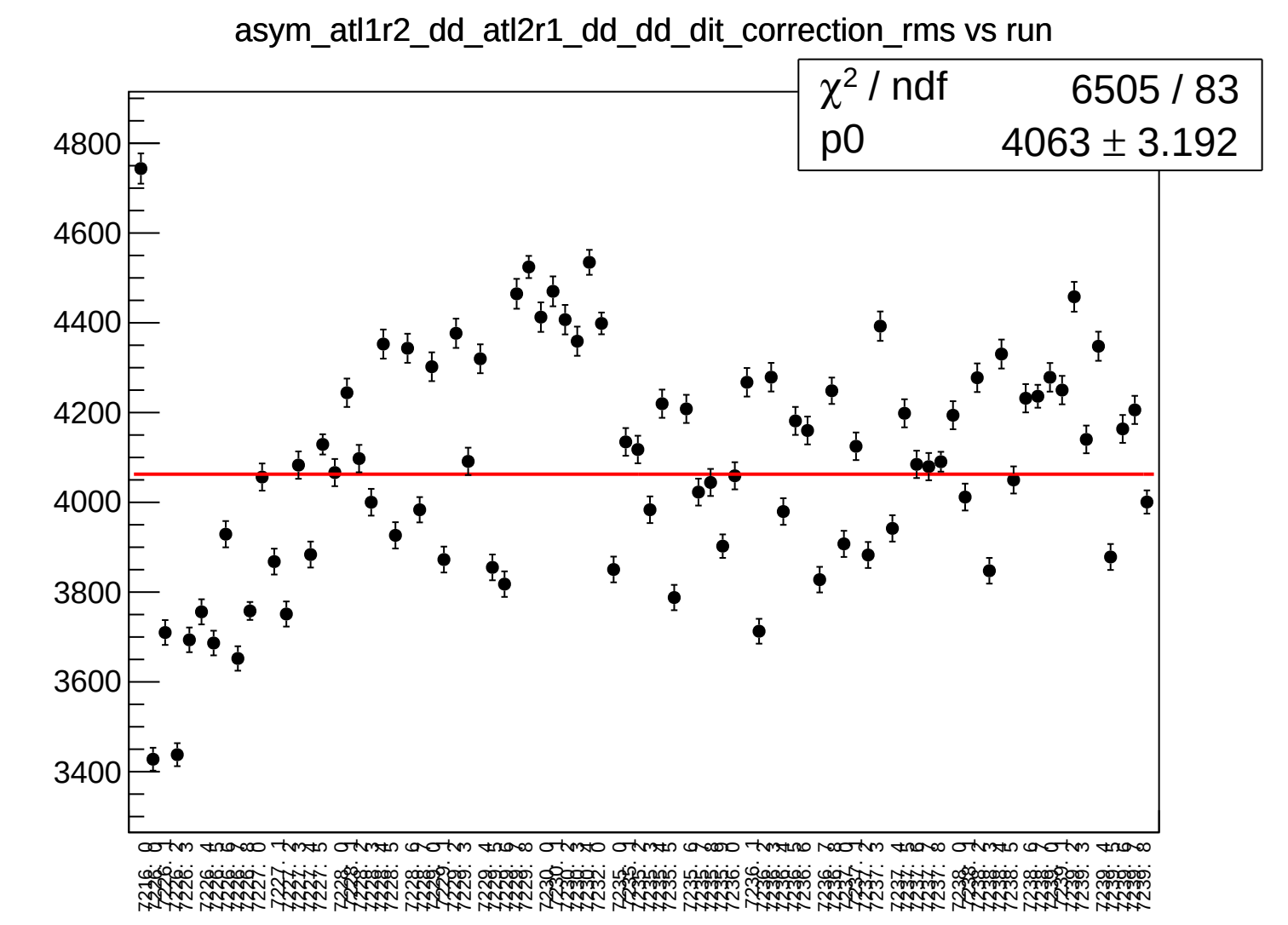

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 91.02 / 83
p0 189 ± 1369
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −419.6
Std Dev 0
2
1
0
−1
−2

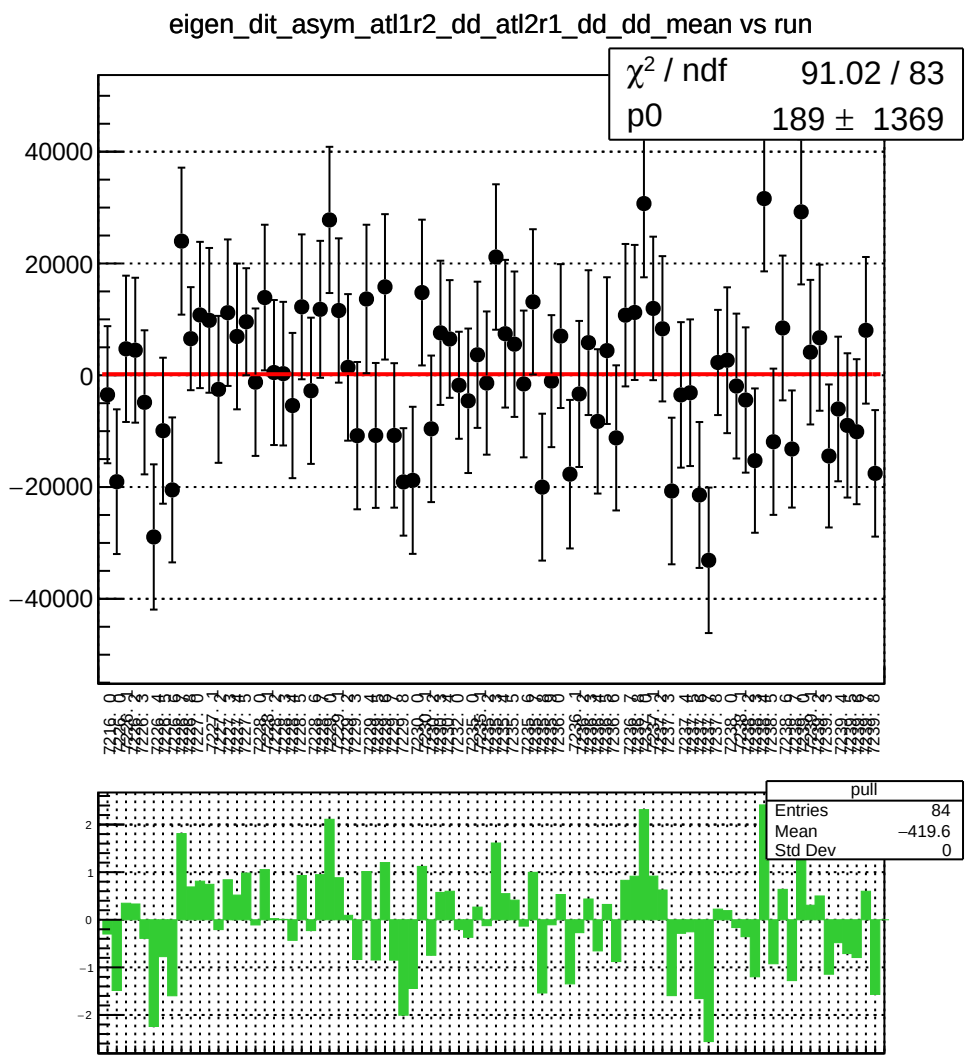

pull1D
Entries 84
Mean 0.004638
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

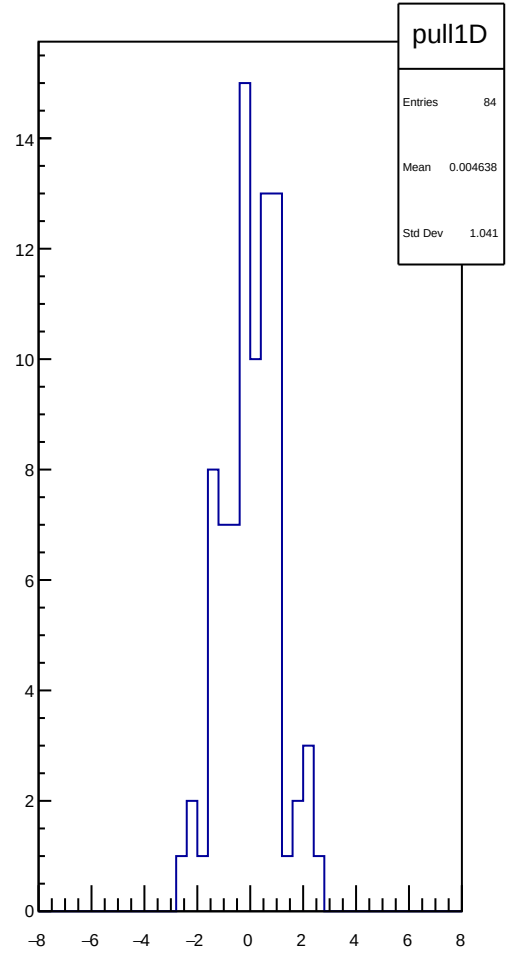

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ^2 / ndf 110.2 / 83
p0 1234 ± 0.9679
1270
1260
1250
1240
1230
1220
1210
1200

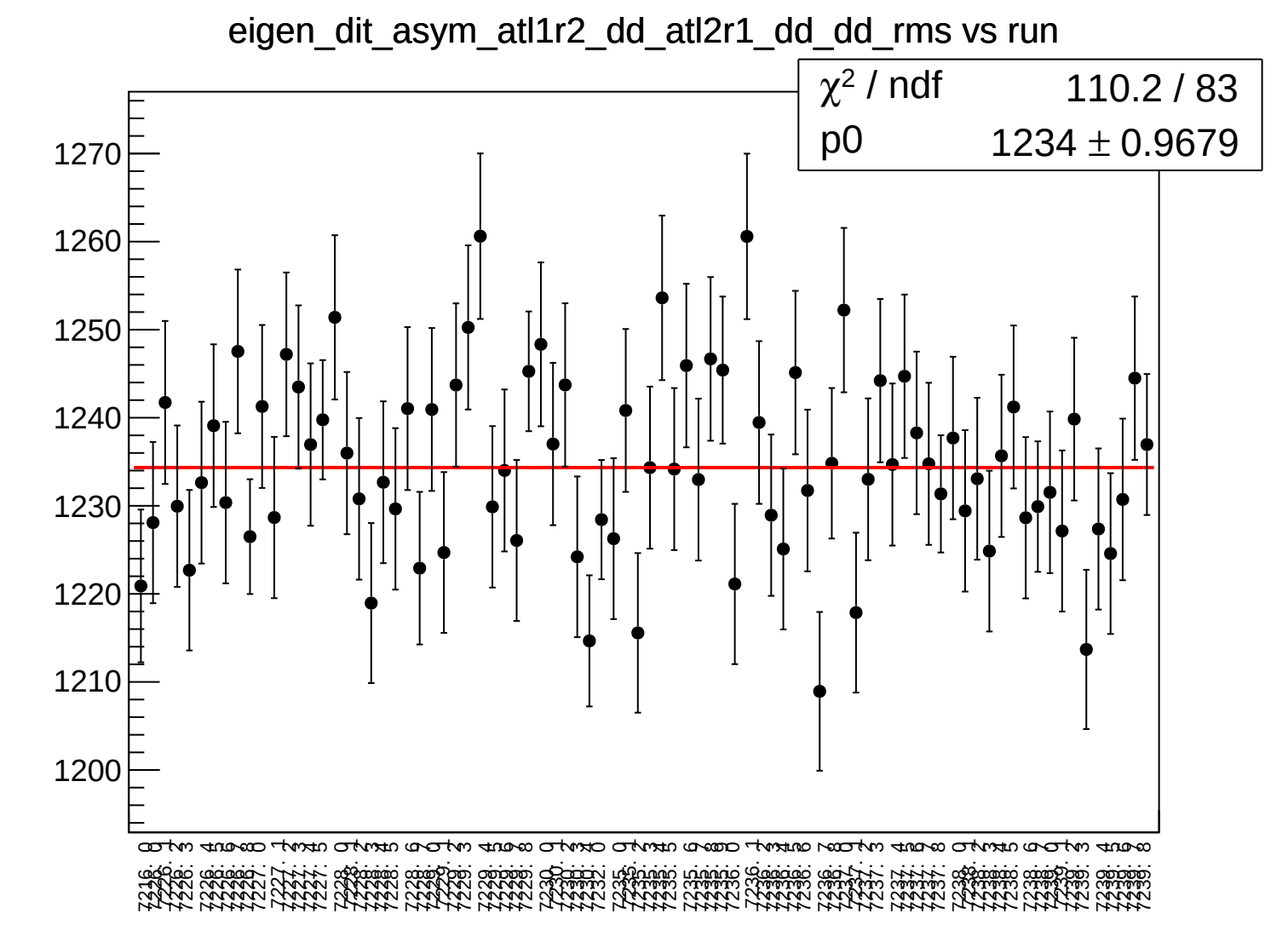

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 99.15 / 83
p0 −4340 ± 4514
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −166.4
Std Dev 0
3
2
1
0
−1
−2

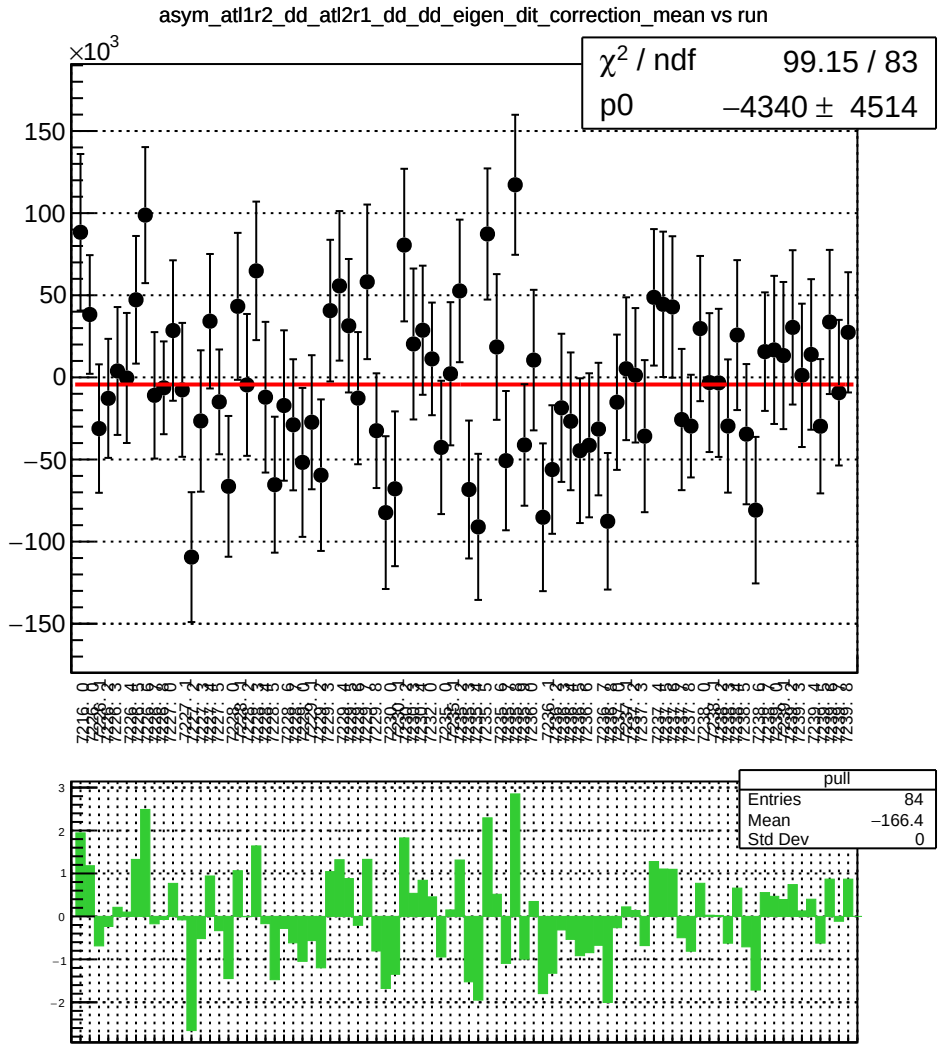

pull1D
Entries 84
Mean 0.006994
Std Dev 1.086
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

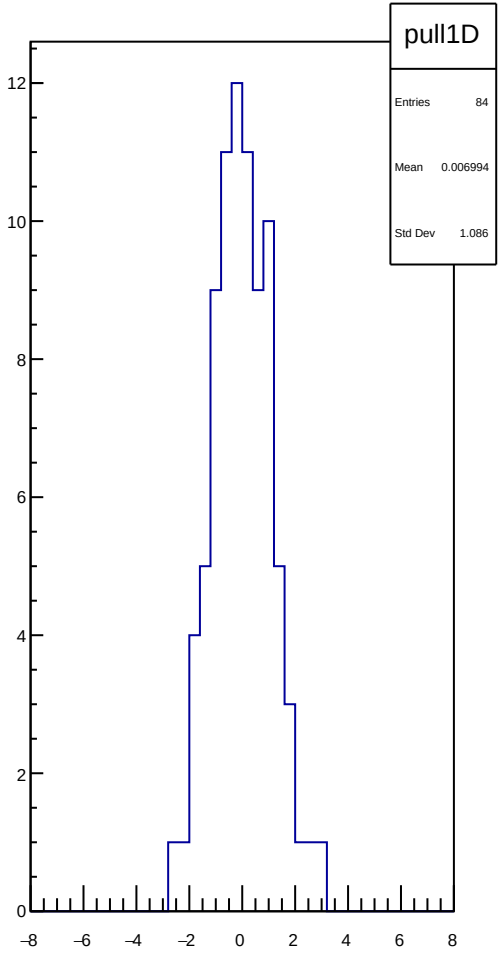

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 6505 / 83
p0 4063 ± 3.192
4800
4600
4400
4200
4000
3800
3600
3400

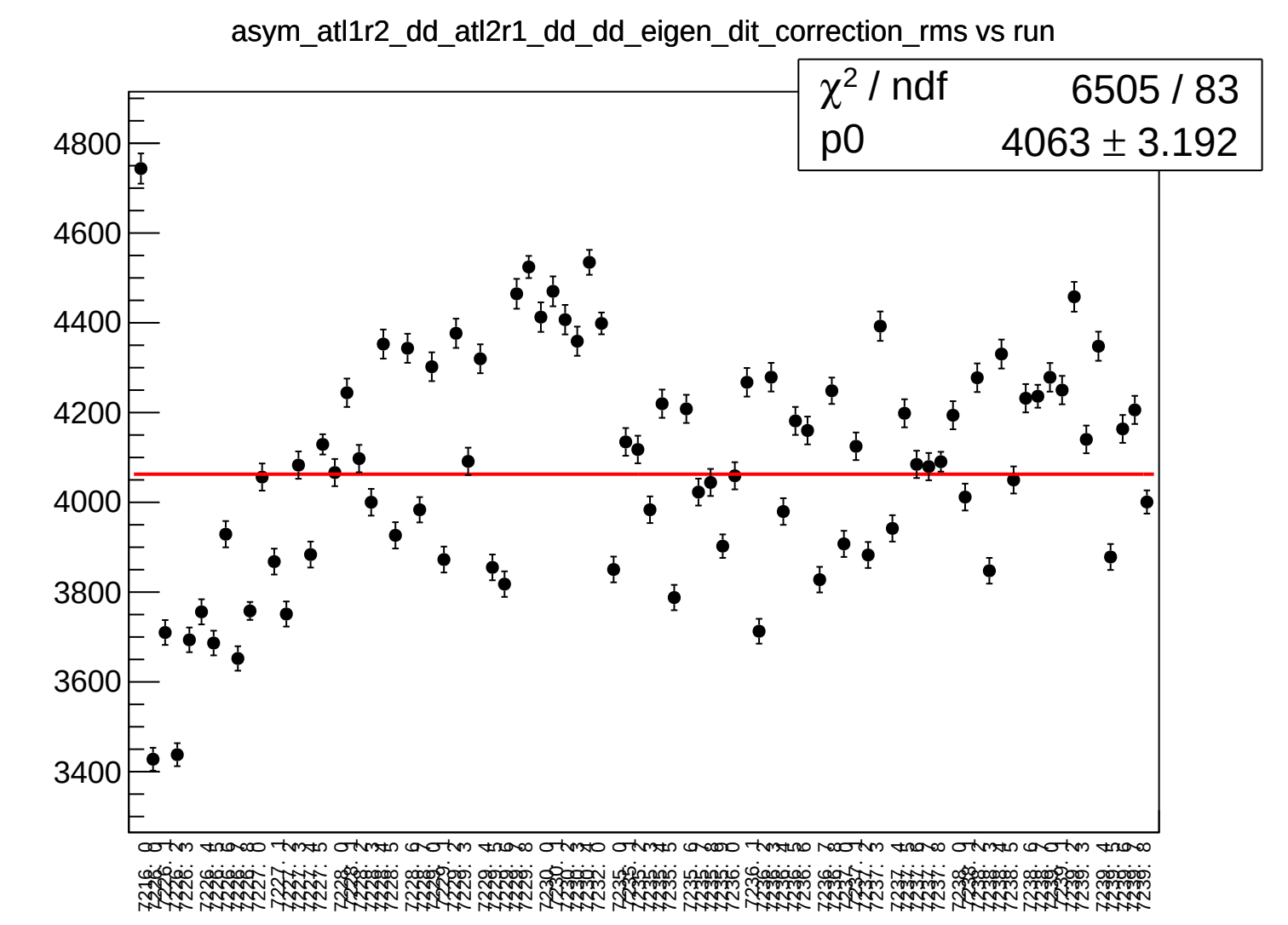

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 91.02 / 83
p0 189 ± 1369
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −419.6
Std Dev 0
2
1
0
−1
−2

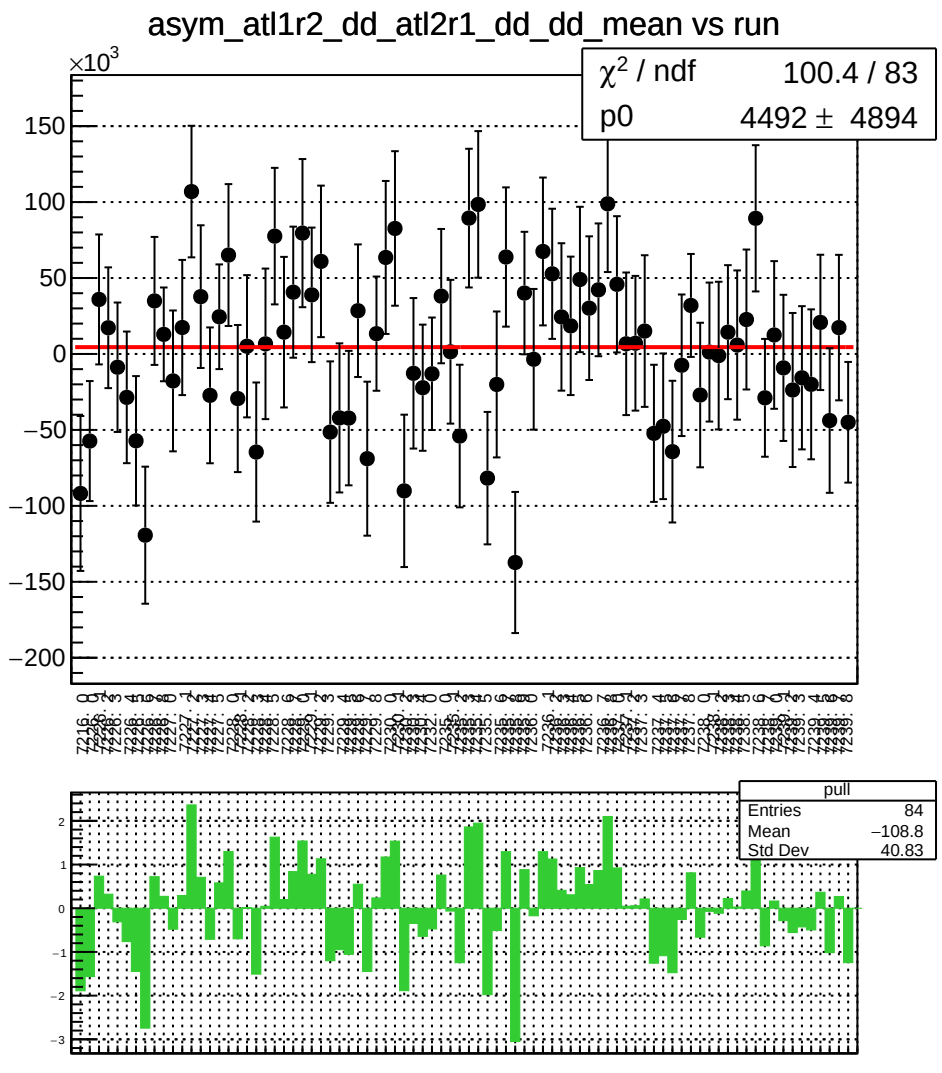

pull1D
Entries 84
Mean 0.004638
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

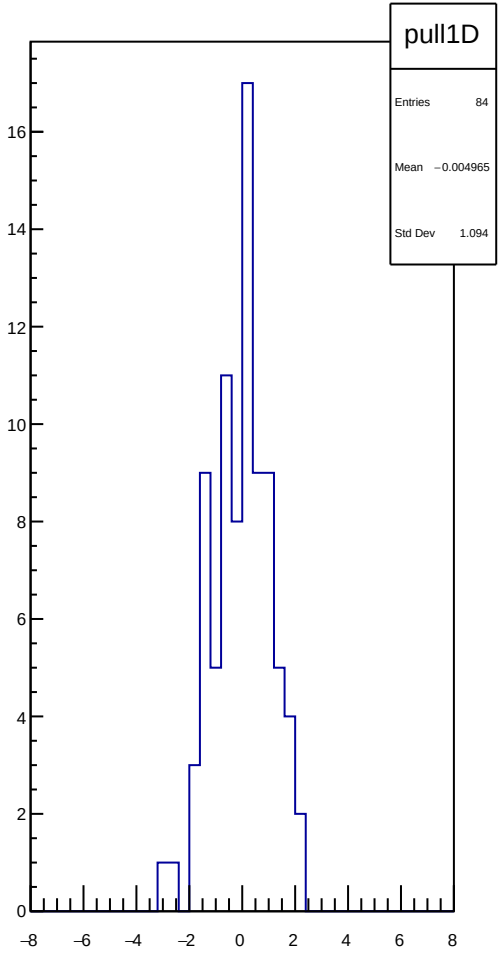

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 110.2 / 83
p0 1234 ± 0.9679
1270
1260
1250
1240
1230
1220
1210
1200

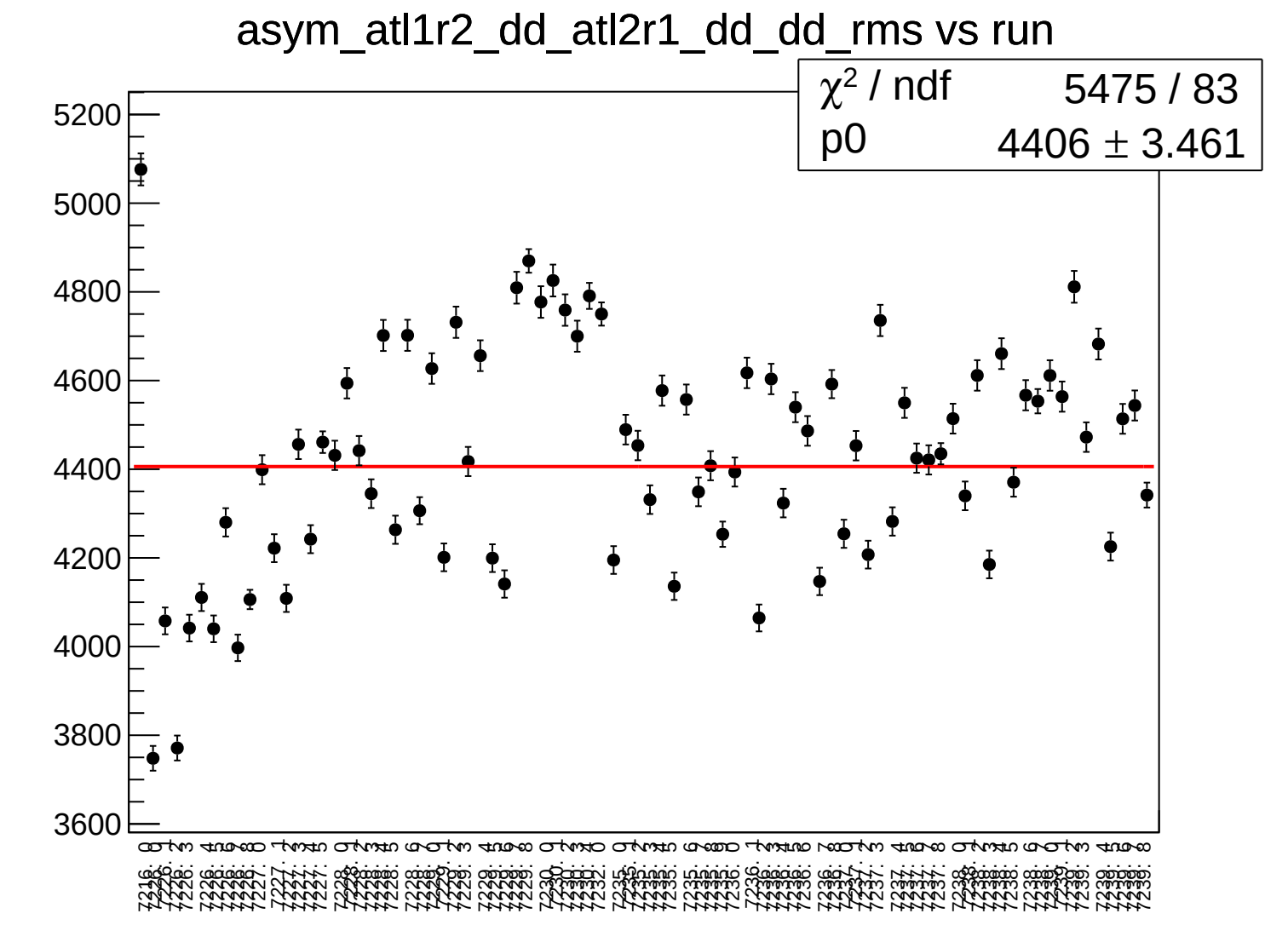

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 99.15 / 83
p0 −4340 ± 4514
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −166.4
Std Dev 0
3
2
1
0
−1
−2

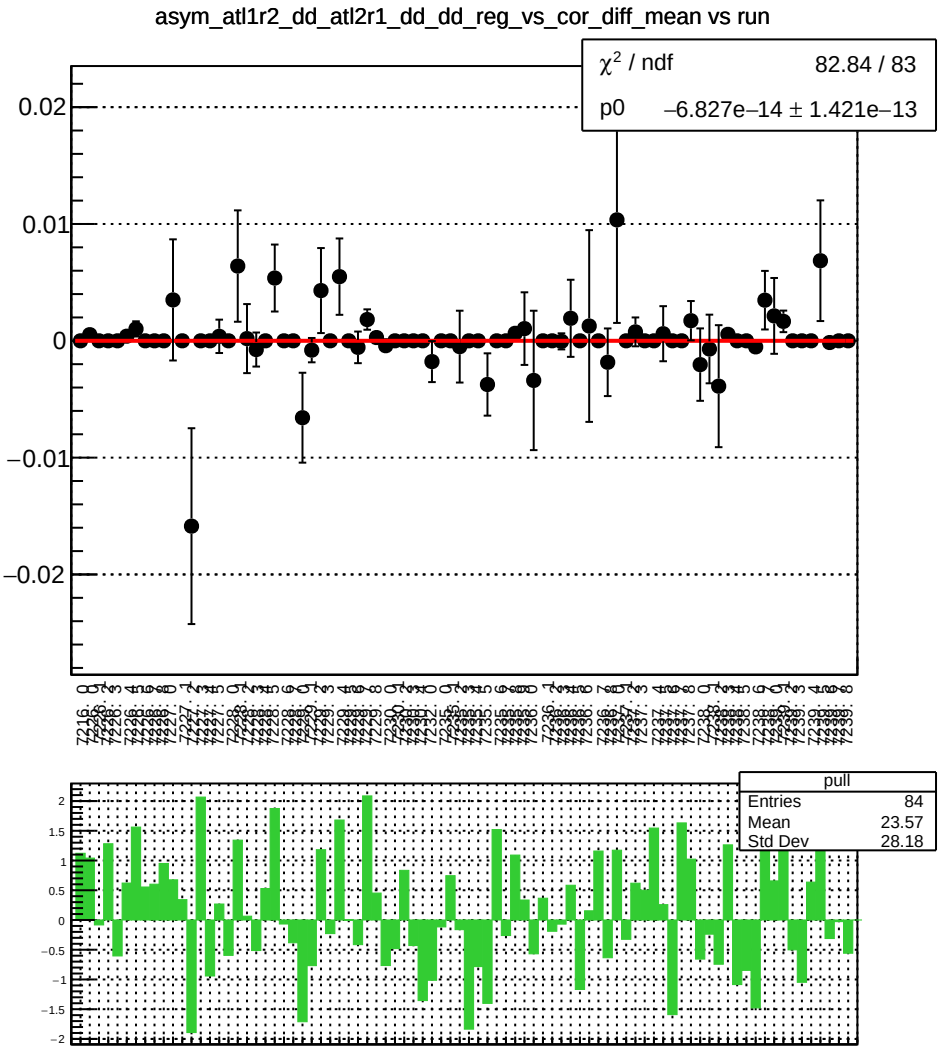

pull1D
Entries 84
Mean 0.006994
Std Dev 1.086
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

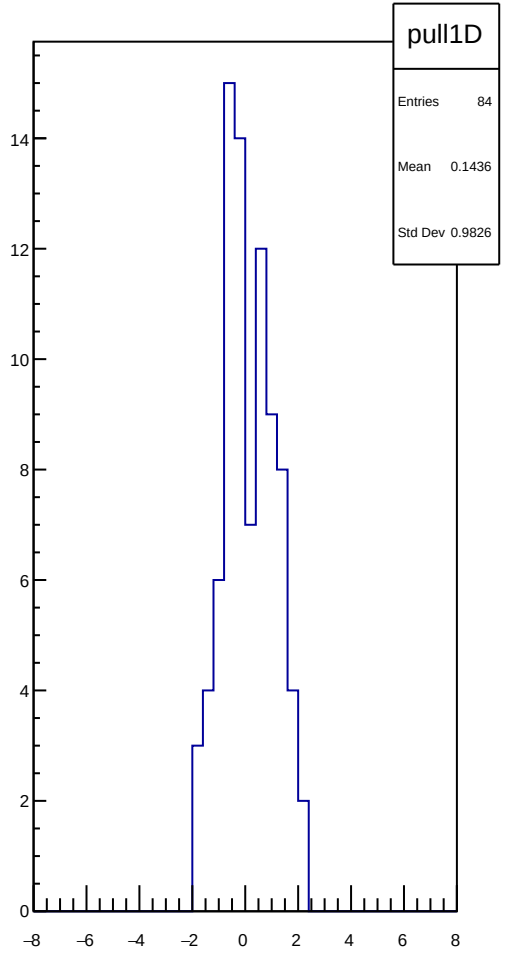

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 6505 / 83
p0 4063 ± 3.192
4800
4600
4400
4200
4000
3800
3600
3400

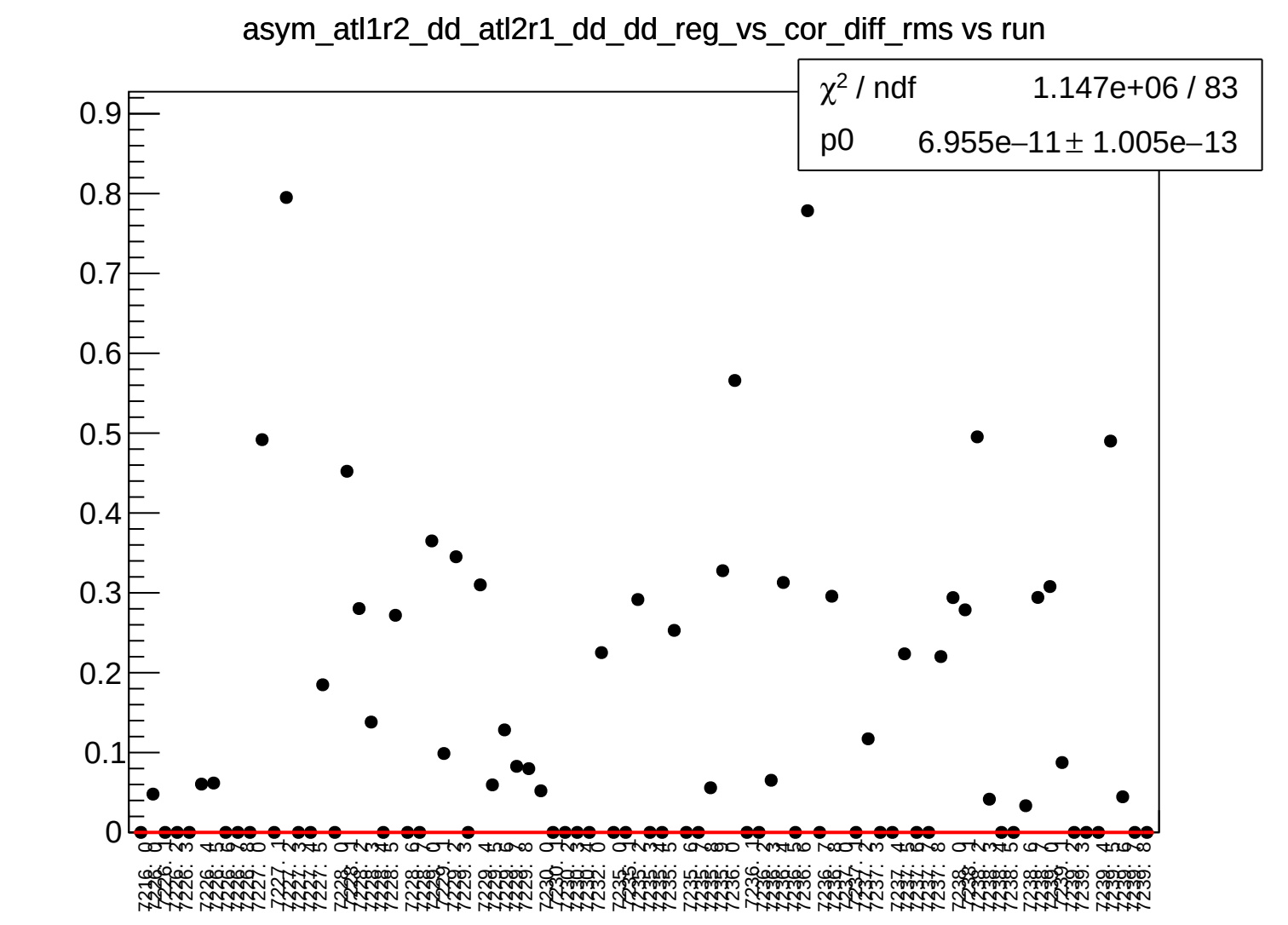

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ^2 / ndf 100.4 / 83
p0 4492 ± 4894
150
100
50
0
−50
−100
−150
−200
pull
Entries 84
Mean −108.8
Std Dev 40.83
2
1
0
−1
−2
−3

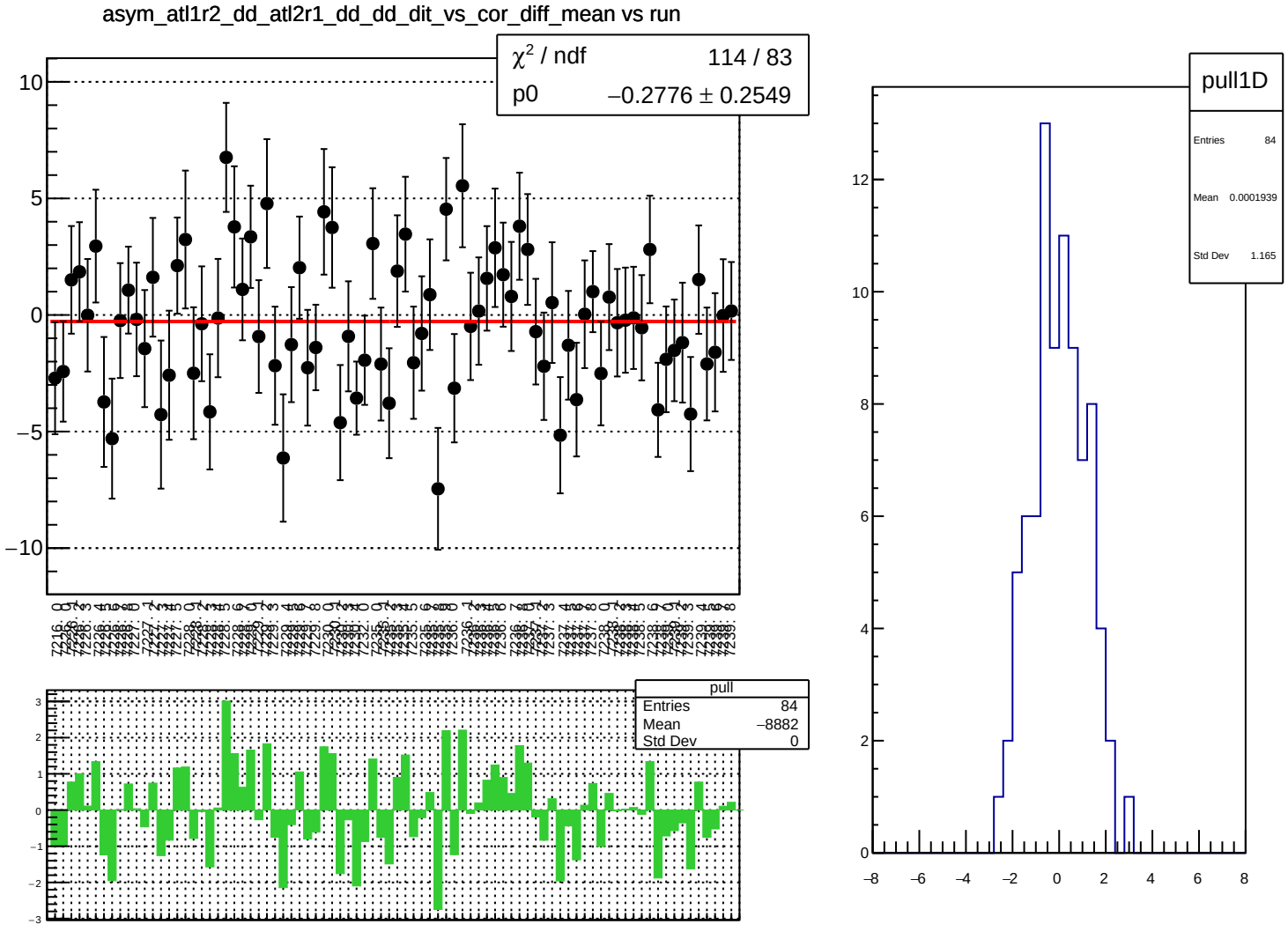

pull1D
Entries 84
Mean −0.004965
Std Dev 1.094
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

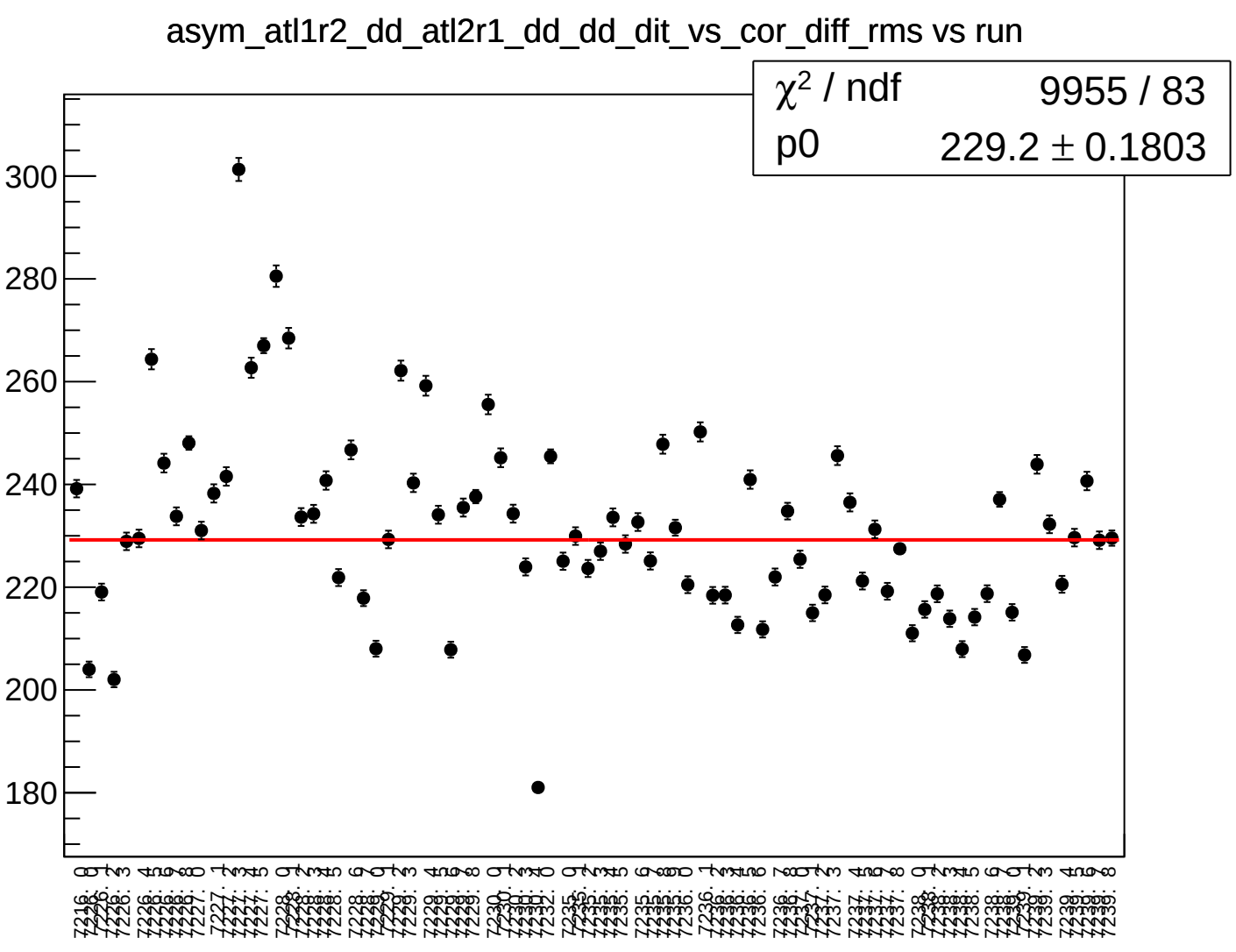

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ^2 / ndf 5475 / 83
p0 4406 ± 3.461
5200
5000
4800
4600
4400
4200
4000
3800
3600

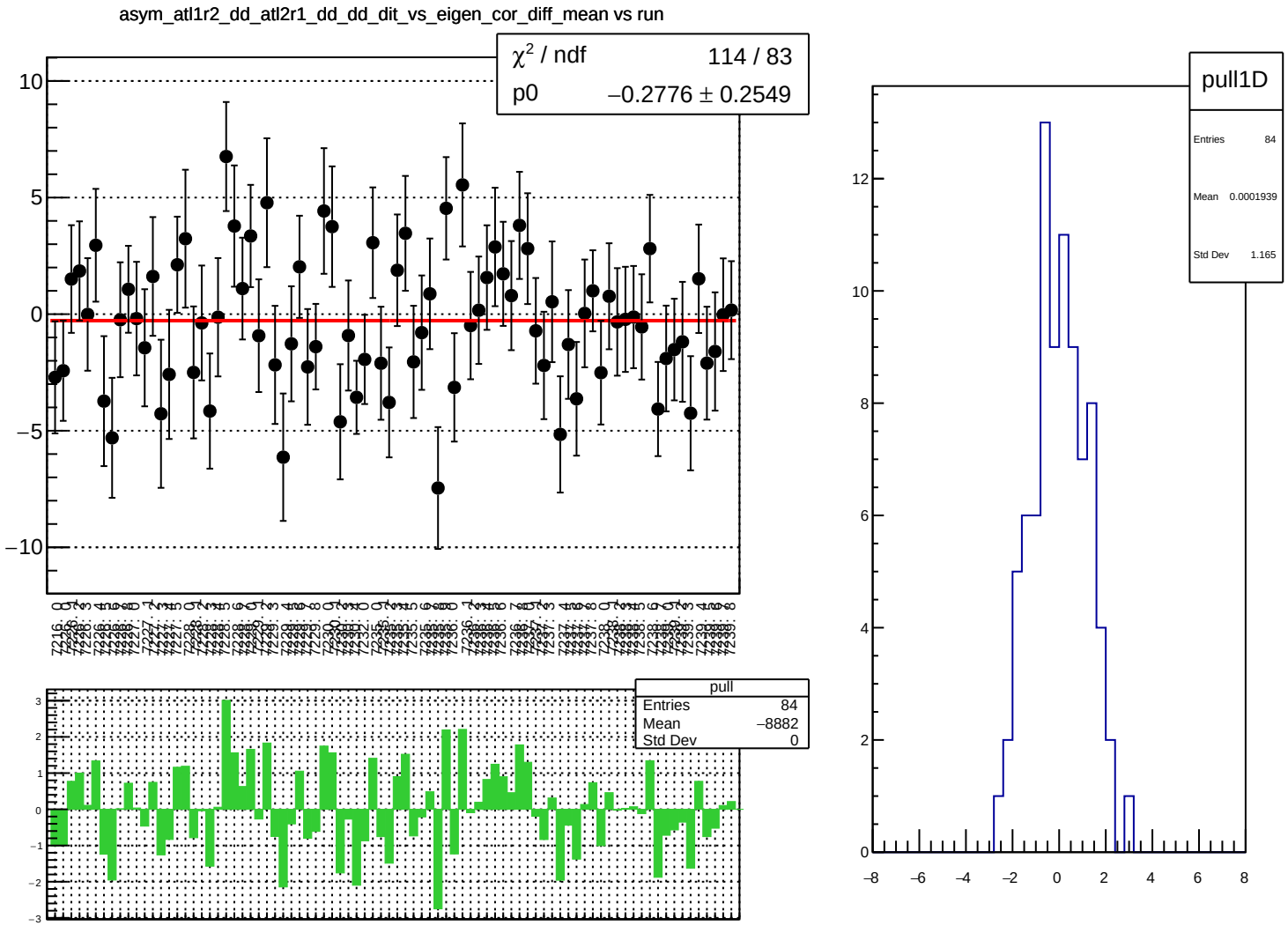

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 82.84 / 83
p0 −6.827e−14 ± 1.421e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 84
Mean 23.57
Std Dev 28.18
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

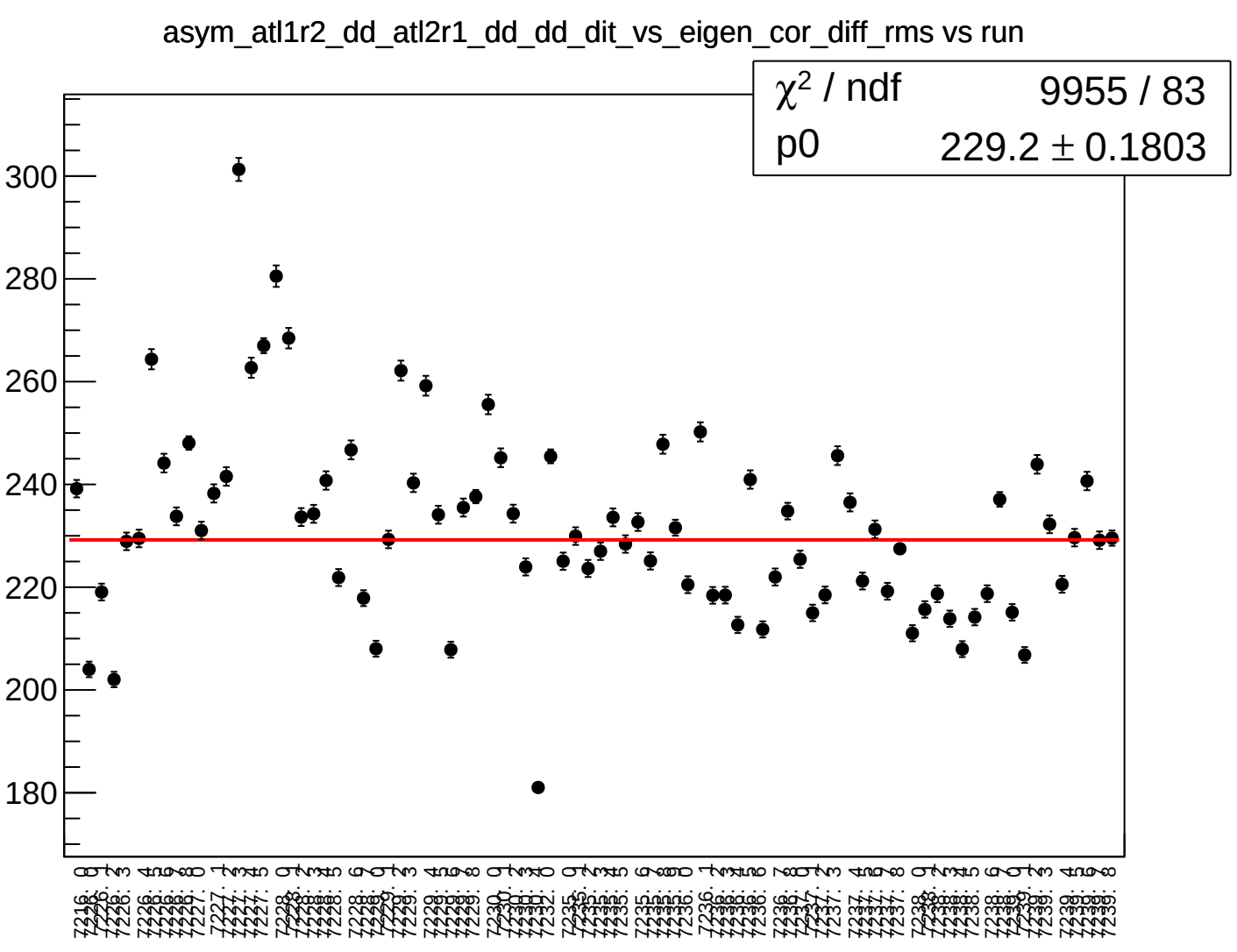

pull1D
Entries 84
Mean 0.1436
Std Dev 0.9826
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

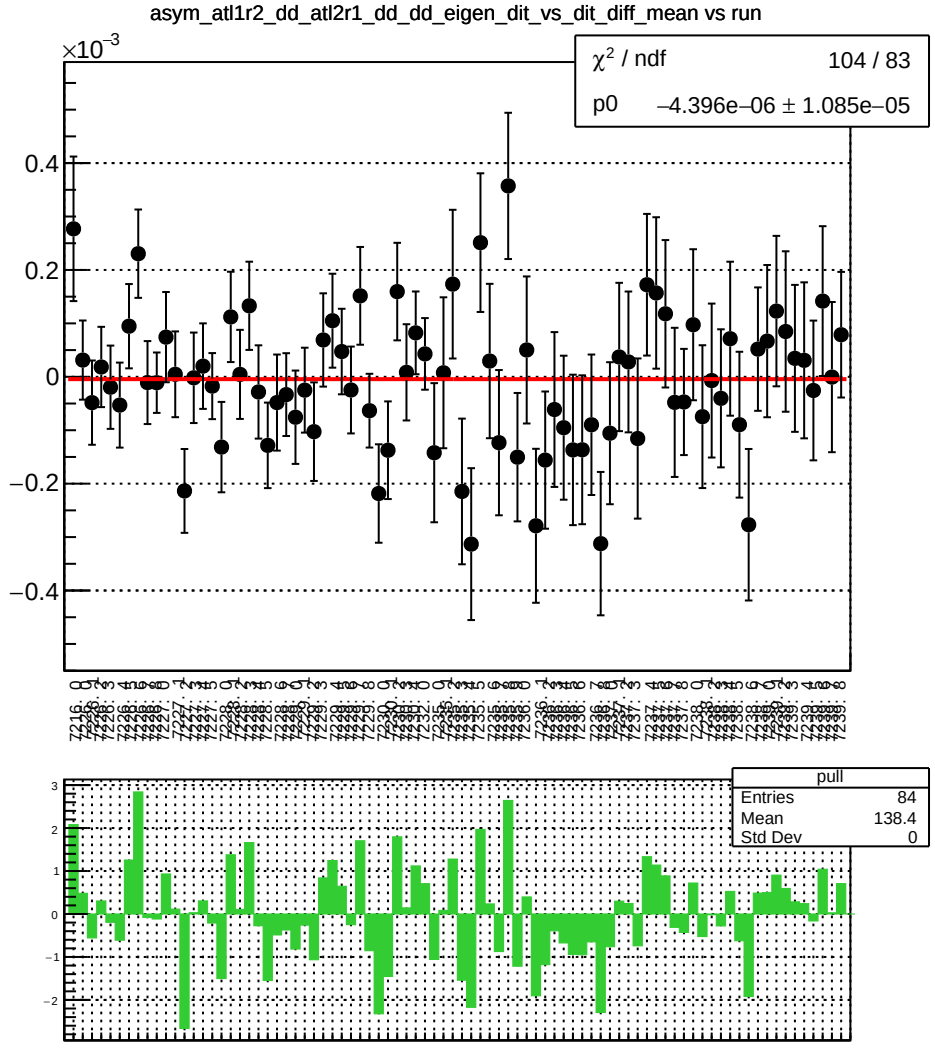

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.147e+06 / 83
p0 6.955e−11 ± 1.005e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

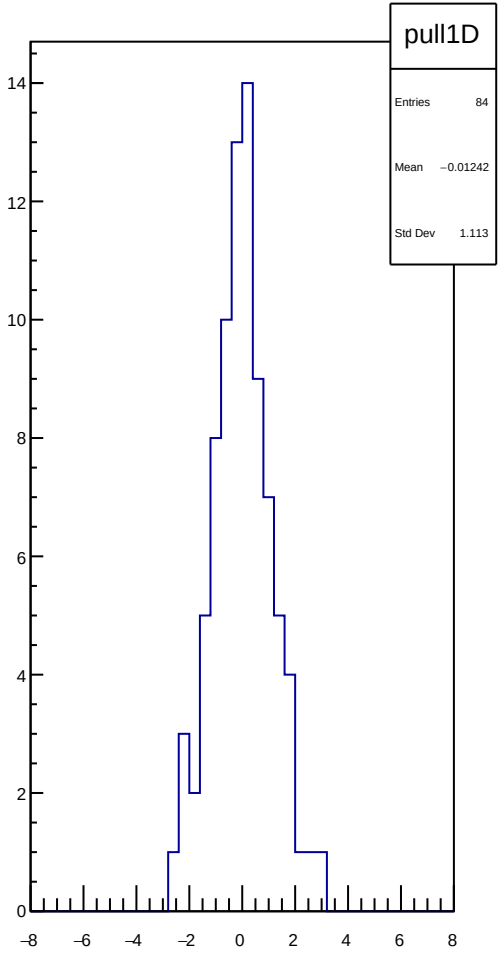

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 114 / 83
p0 −0.2776 ± 0.2549
pull
Entries 84
Mean −8882
Std Dev 0
pull1D
Entries 84
Mean 0.0001939
Std Dev 1.165

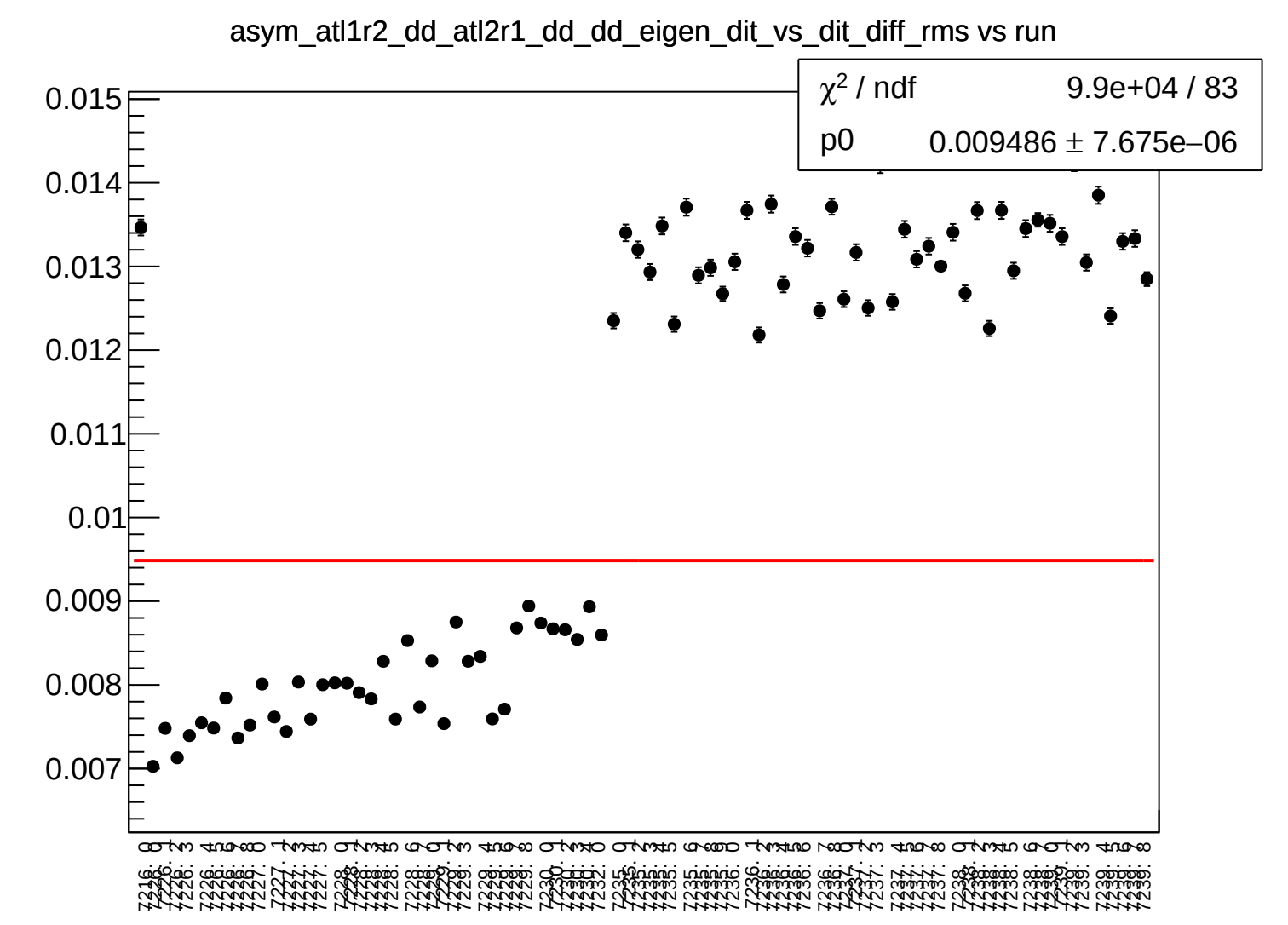

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9955 / 83
p0 229.2 ± 0.1803
300
280
260
240
220
200
180

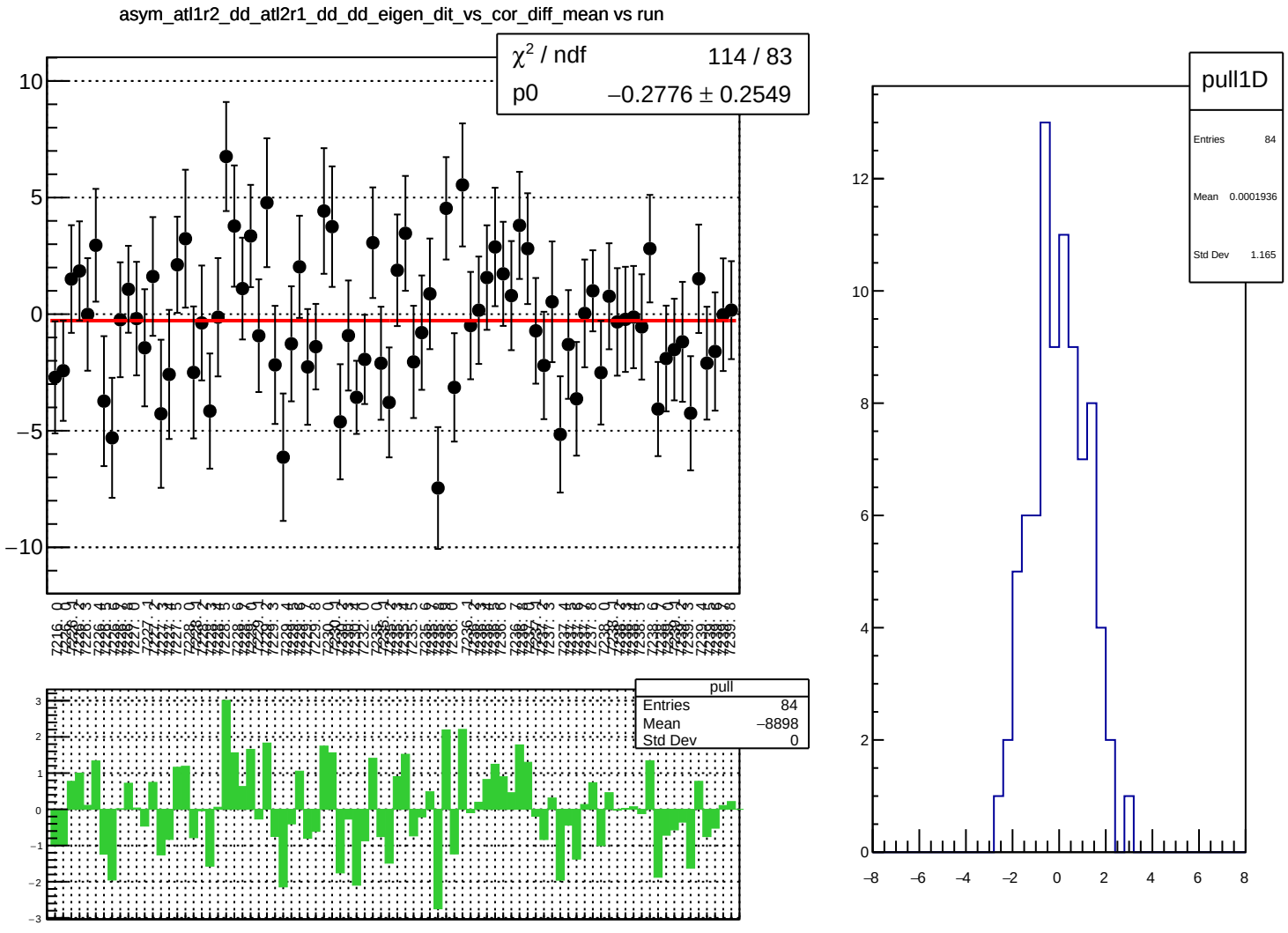

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 114 / 83
p0 −0.2776 ± 0.2549
pull
Entries 84
Mean −8882
Std Dev 0
pull1D
Entries 84
Mean 0.0001939
Std Dev 1.165

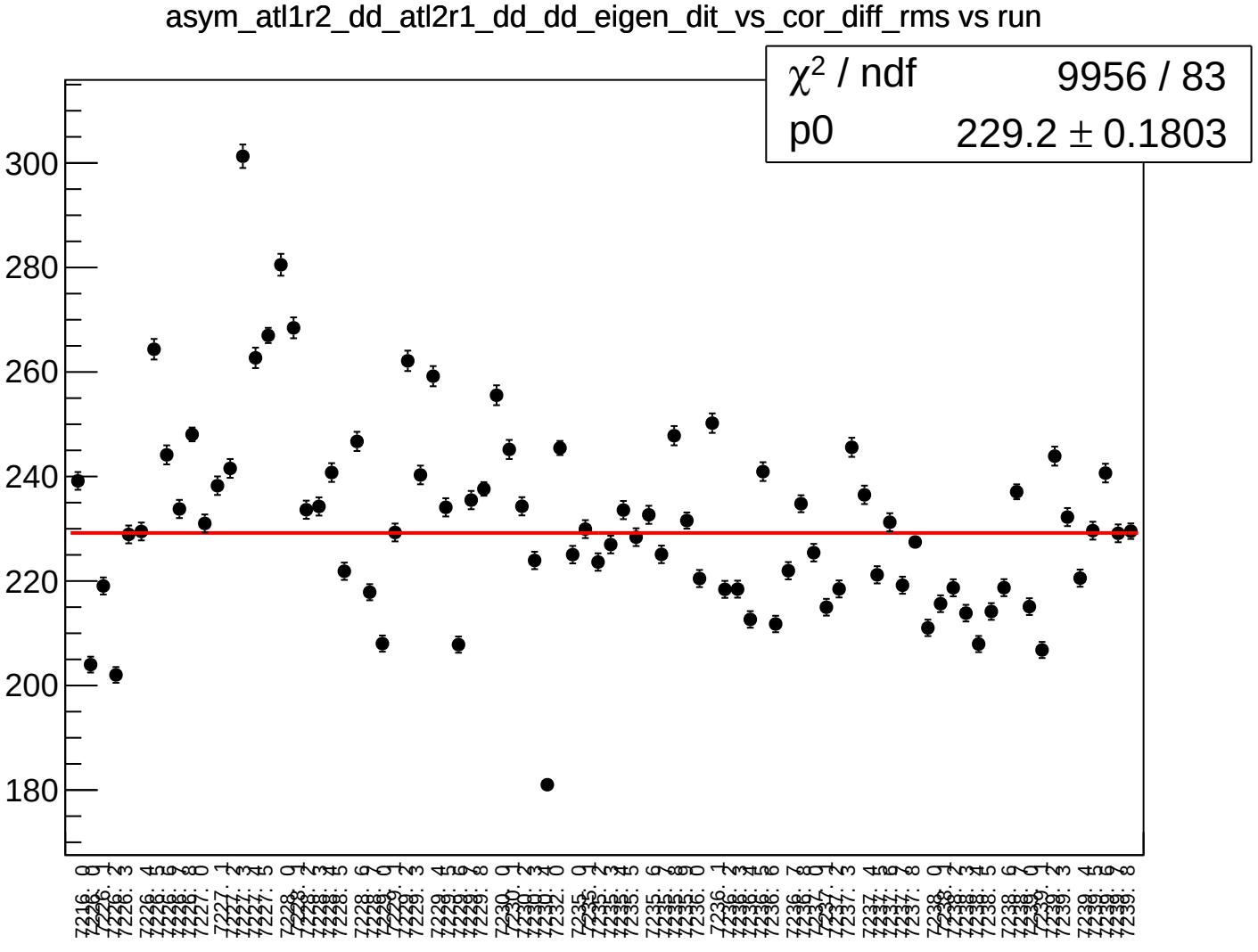

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9955 / 83
p0 229.2 ± 0.1803
300
280
260
240
220
200
180

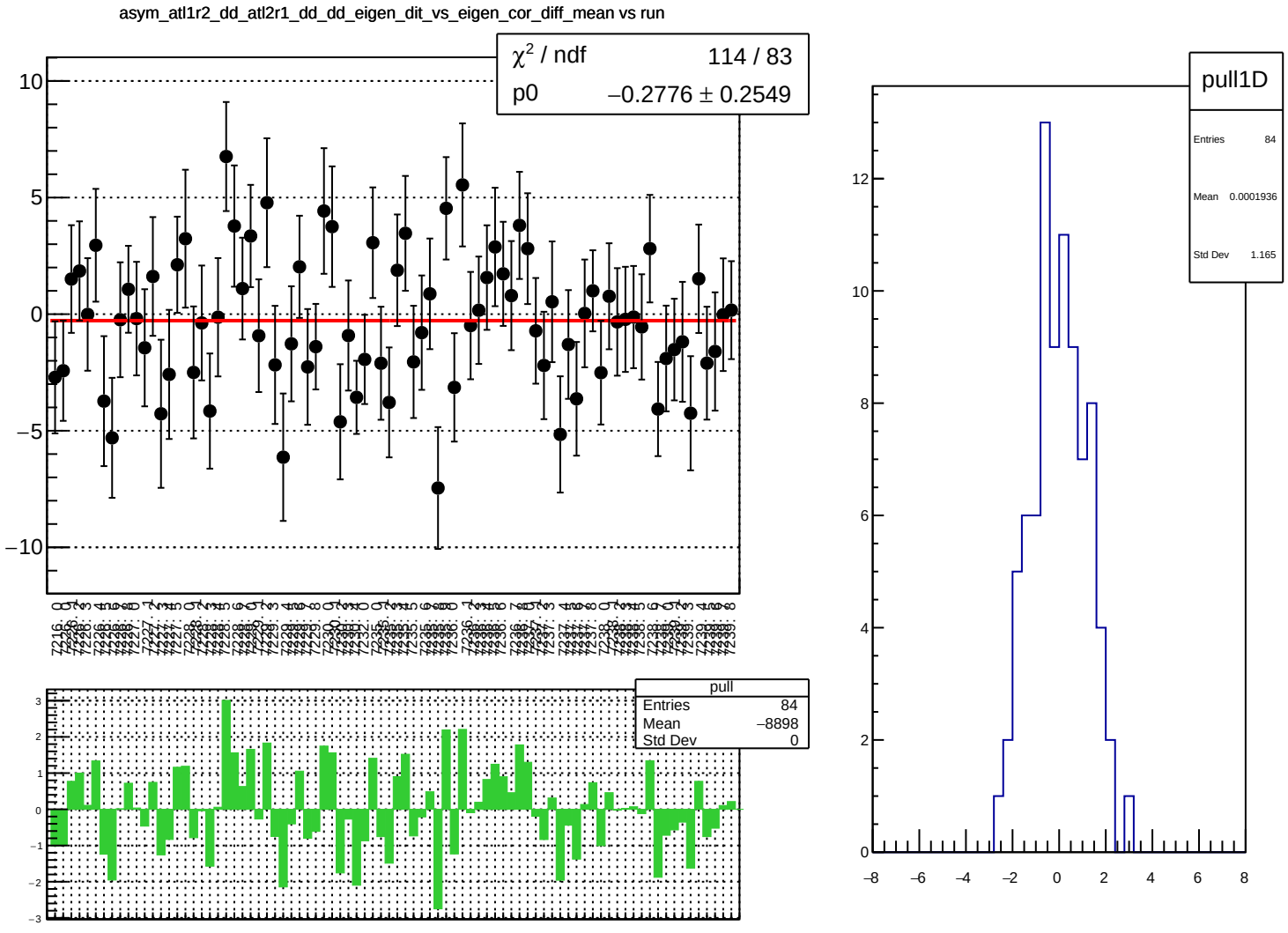

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 104 / 83
p0 −4.396e−06 ± 1.085e−05
pull
Entries 84
Mean 138.4
Std Dev 0

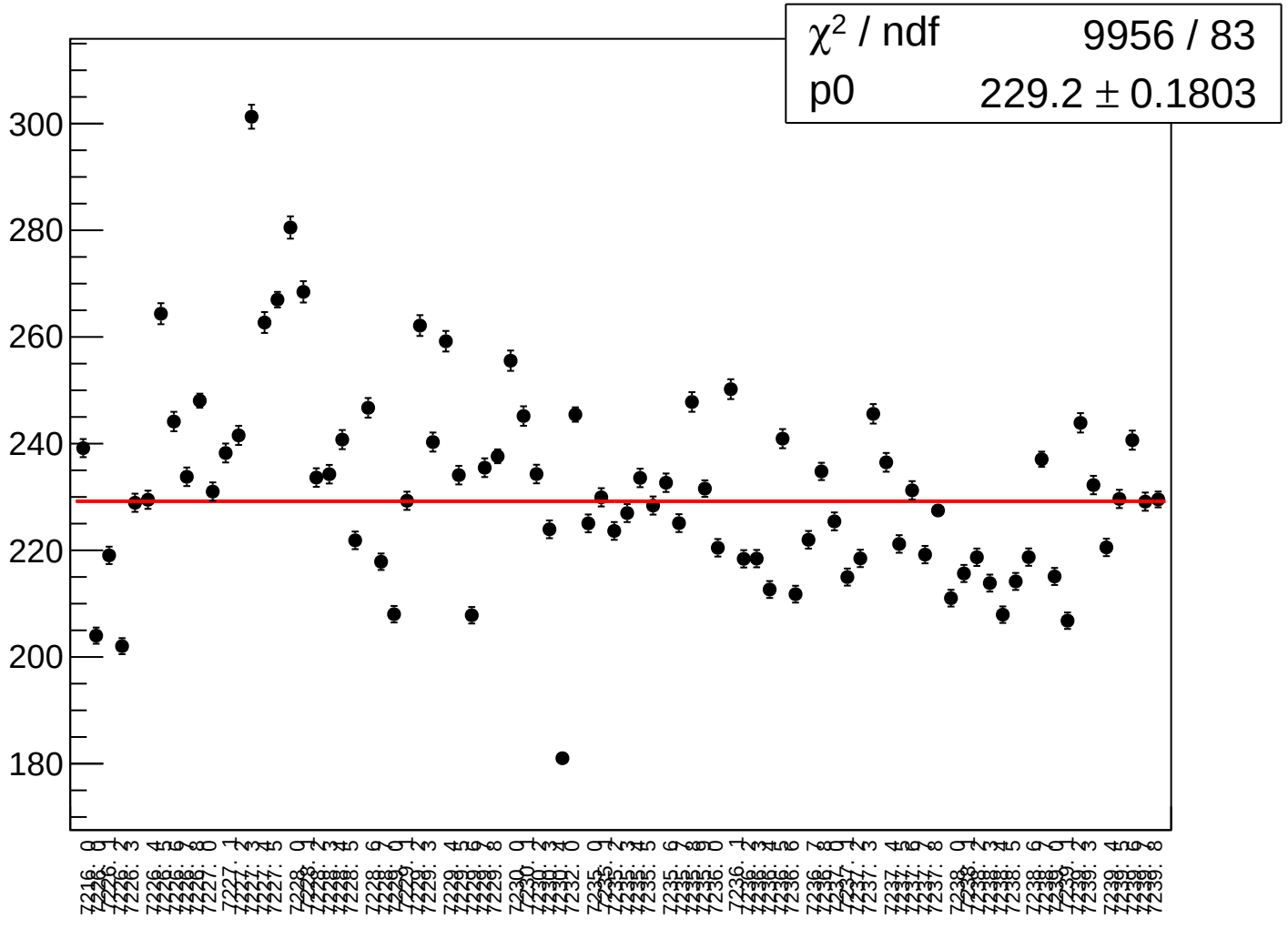

pull1D
Entries 84
Mean −0.01242
Std Dev 1.113

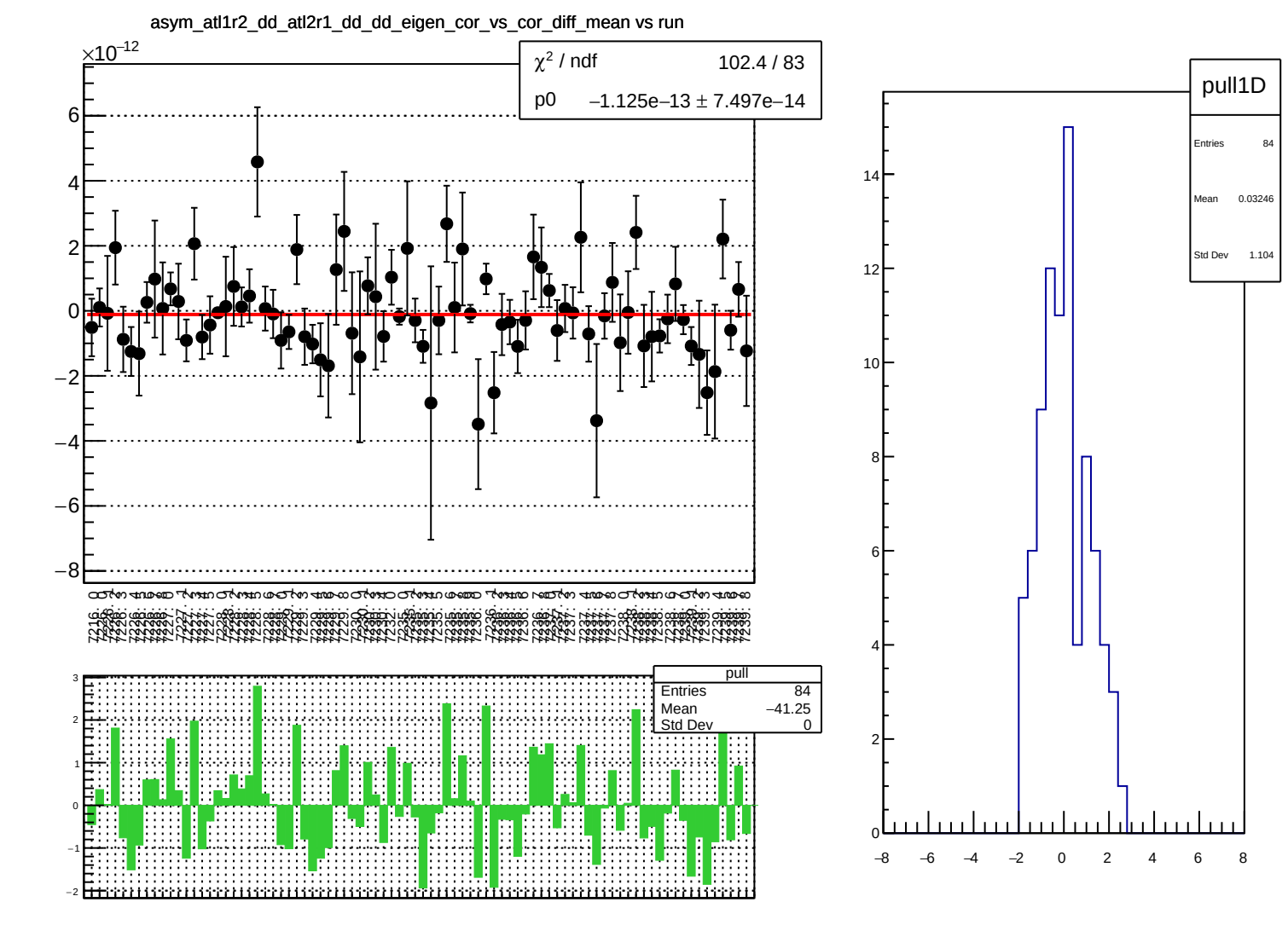

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.9e+04 / 83
p0 0.009486 ± 7.675e−06
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007

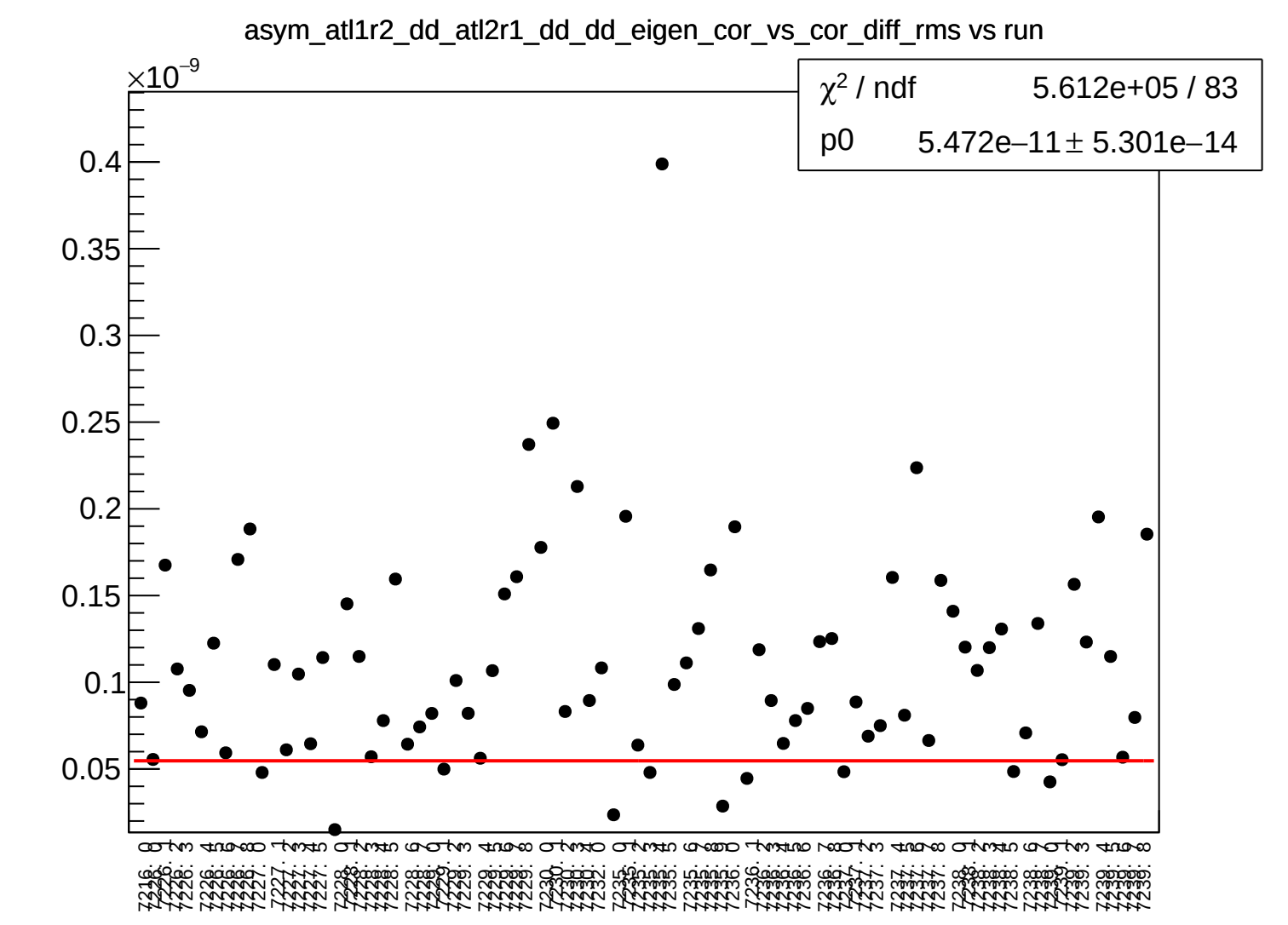

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 114 / 83
p0 −0.2776 ± 0.2549
pull
Entries 84
Mean −8898
Std Dev 0
pull1D
Entries 84
Mean 0.0001936
Std Dev 1.165

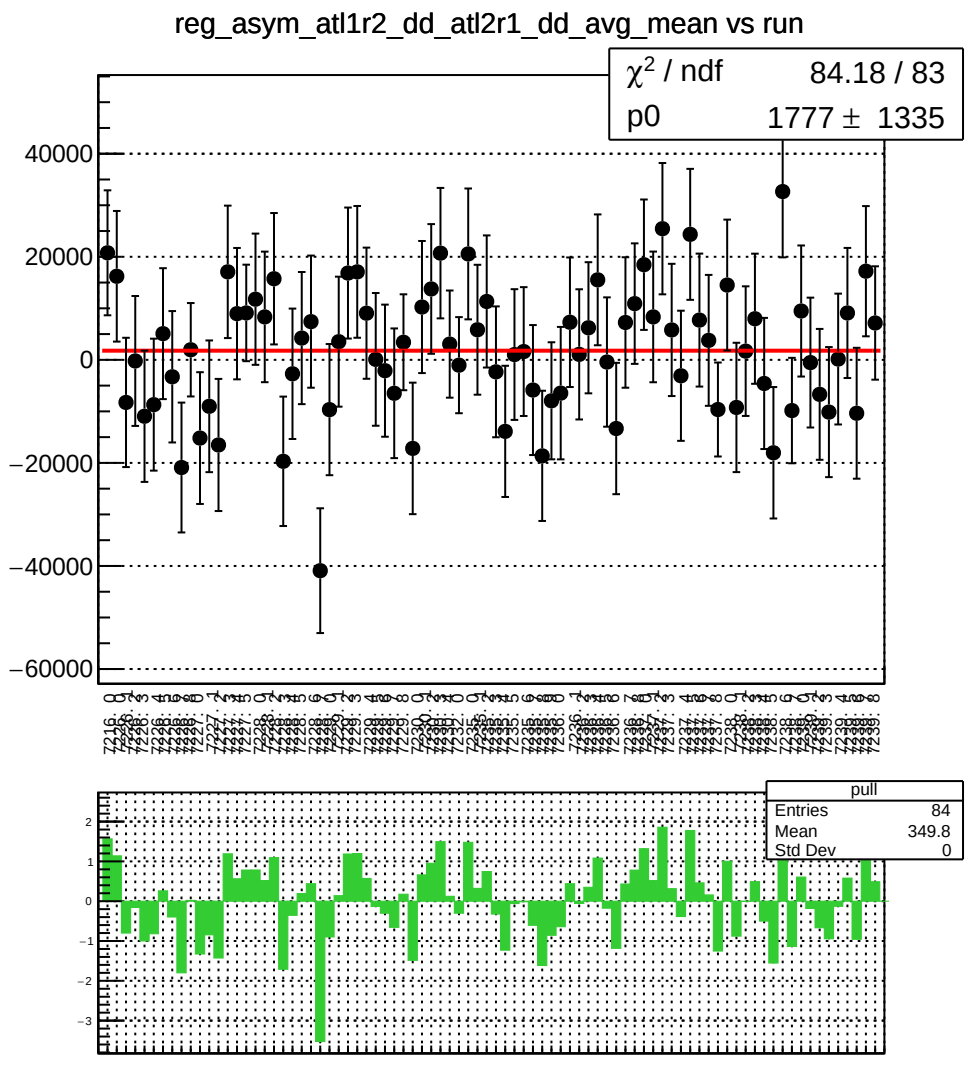

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9956 / 83
p0 229.2 ± 0.1803
300
280
260
240
220
200
180

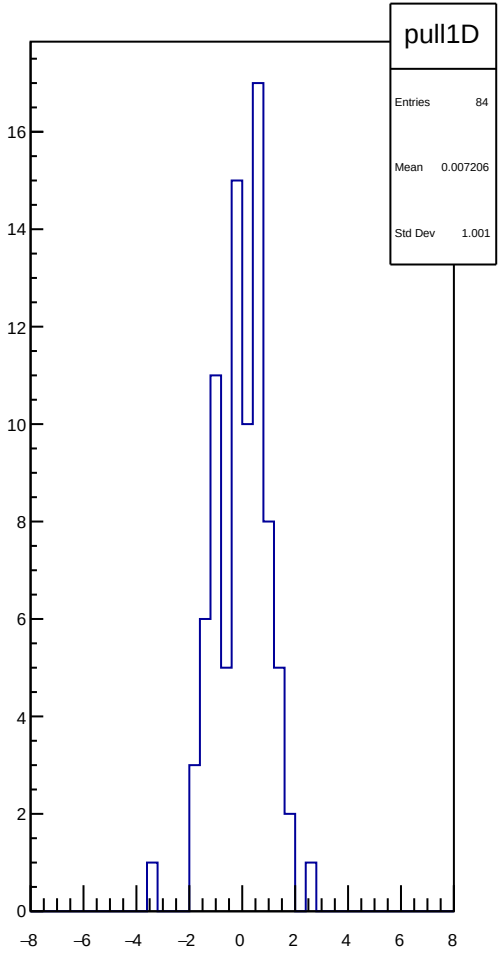

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 114 / 83
p0 −0.2776 ± 0.2549
pull
Entries 84
Mean −8898
Std Dev 0
pull1D
Entries 84
Mean 0.0001936
Std Dev 1.165

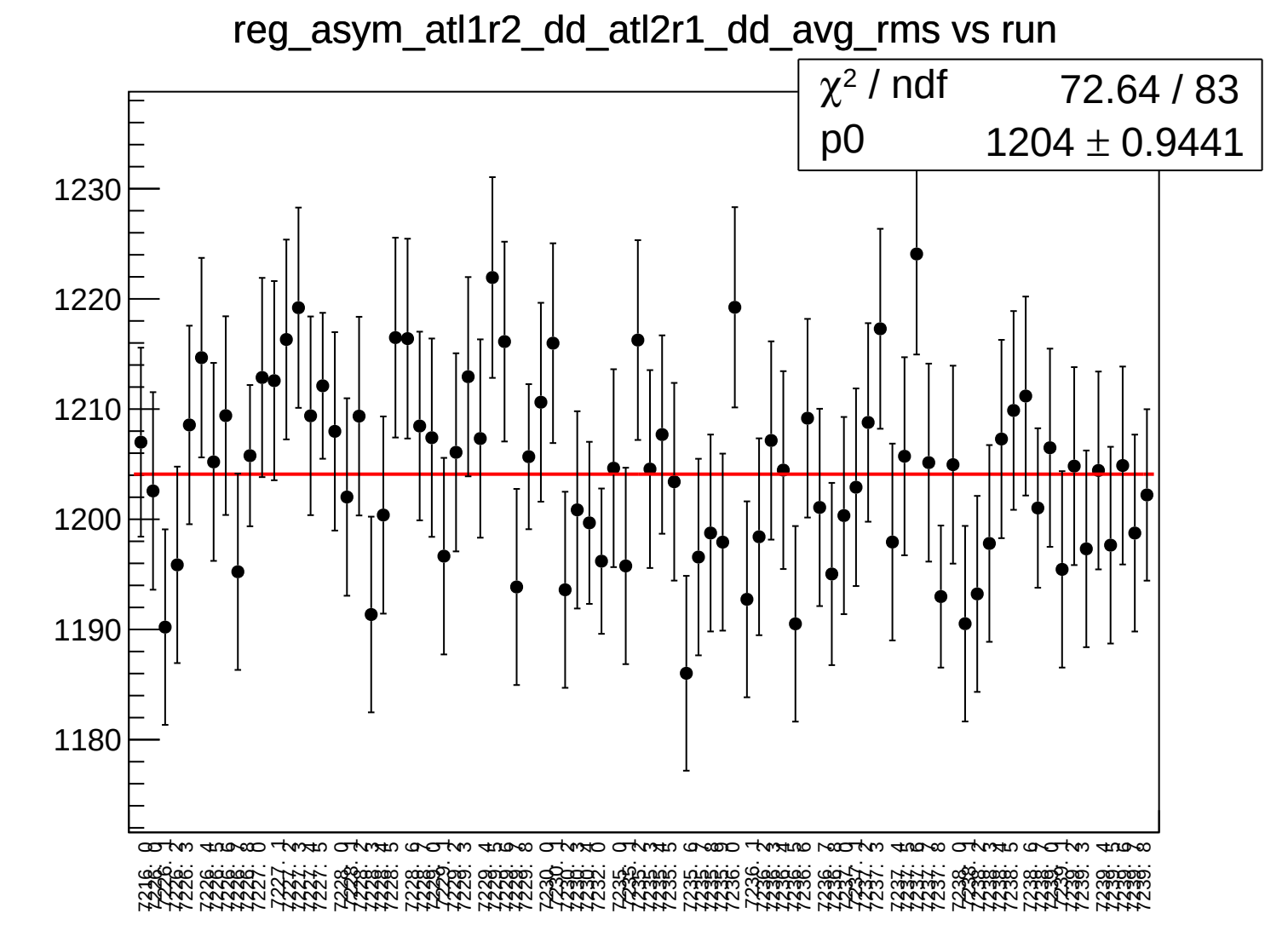

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9956 / 83
p0 229.2 ± 0.1803
300
280
260
240
220
200
180

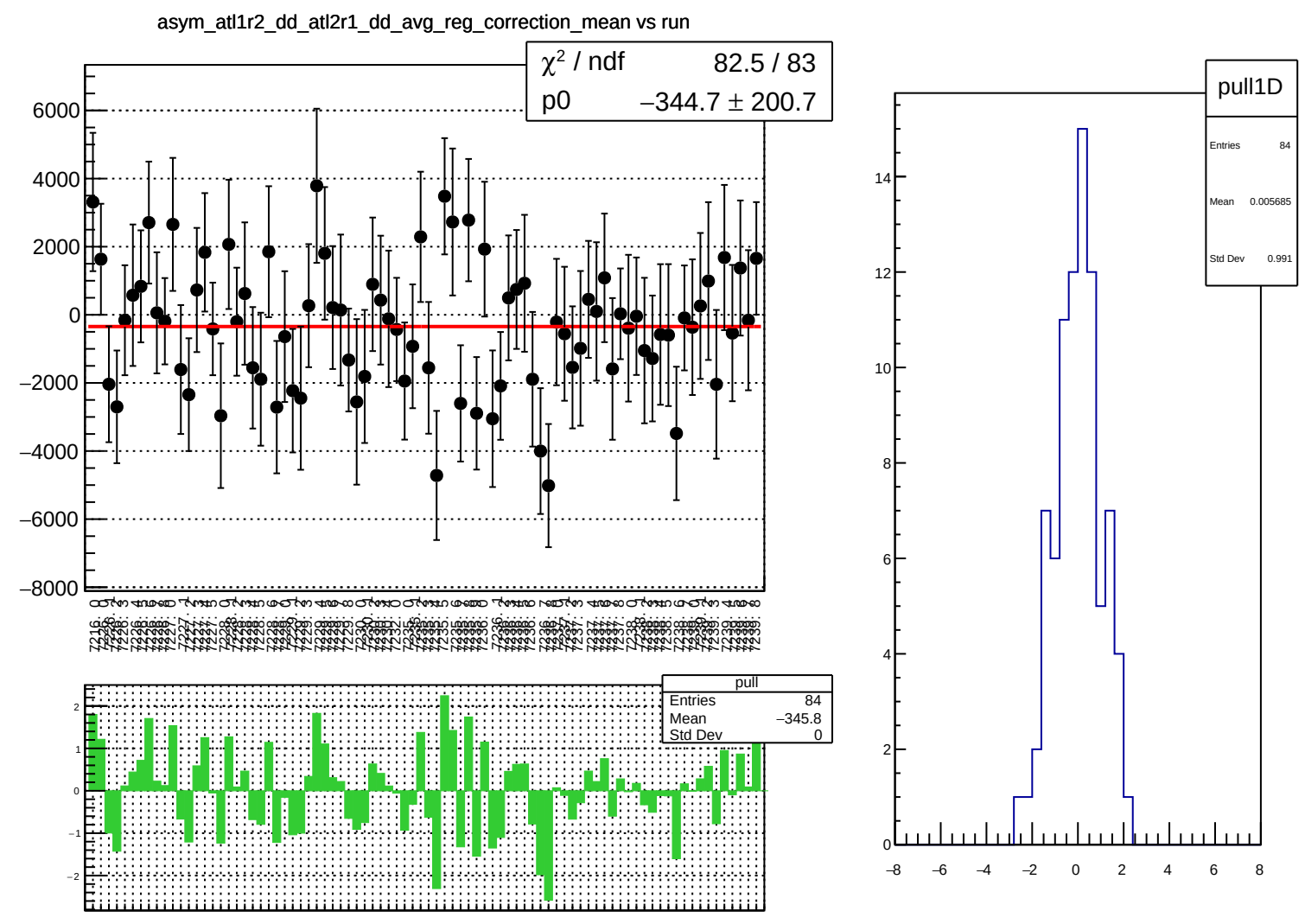

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 102.4 / 83
p0 −1.125e−13 ± 7.497e−14
pull
Entries 84
Mean −41.25
Std Dev 0
pull1D
Entries 84
Mean 0.03246
Std Dev 1.104

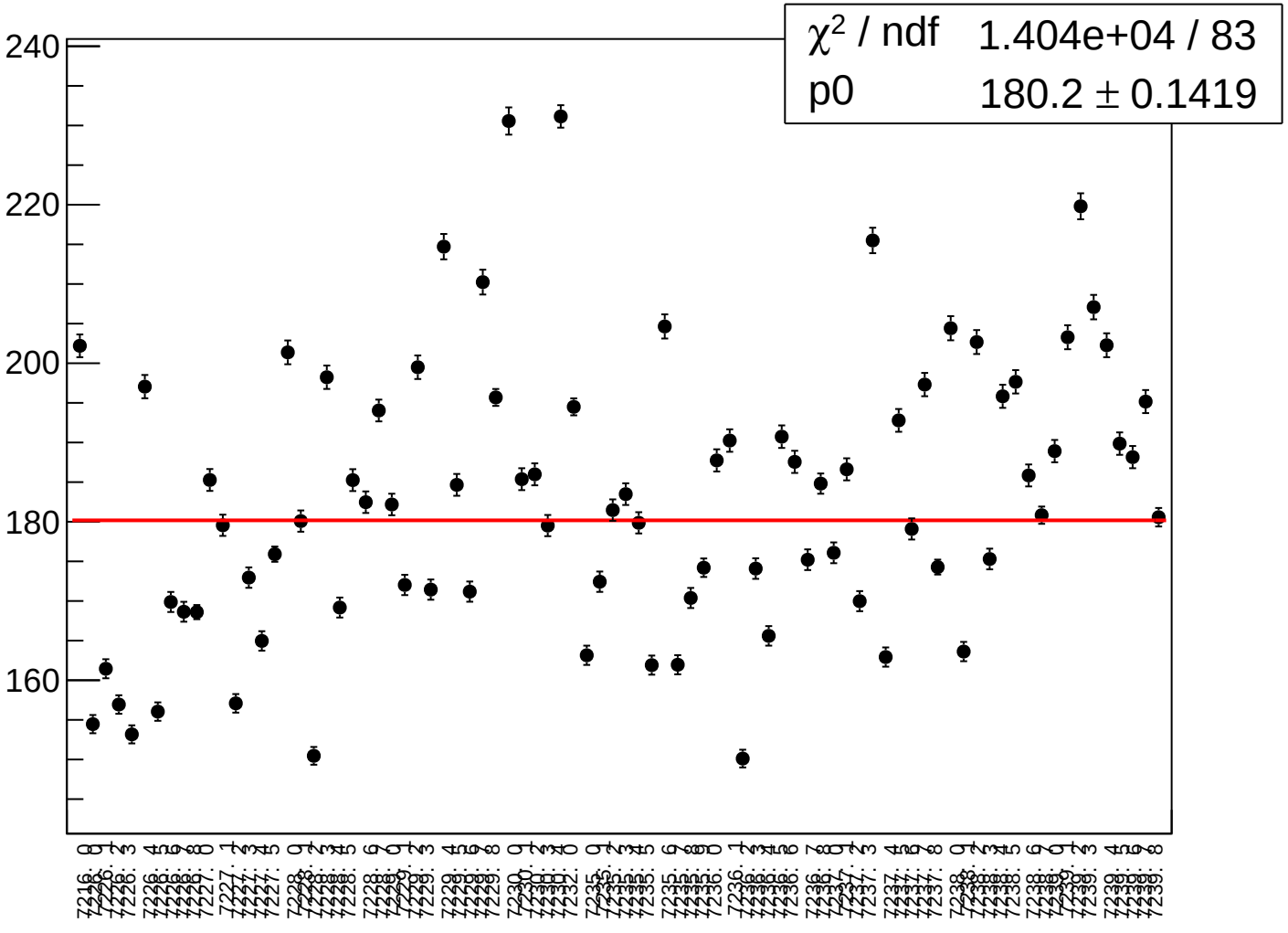

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.612e+05 / 83
p0 5.472e−11 ± 5.301e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

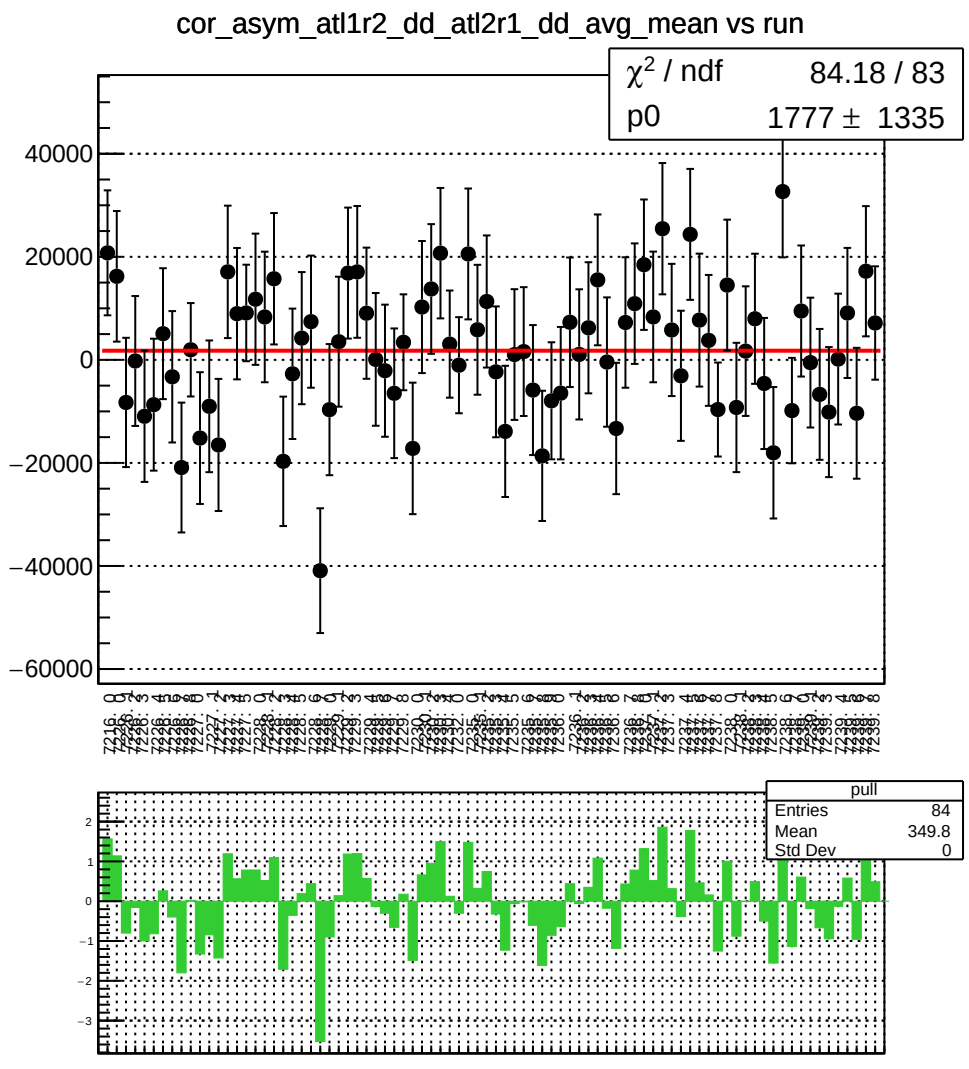

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 84.18 / 83
p0 1777 ± 1335
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 349.8
Std Dev 0
2
1
0
−1
−2
−3

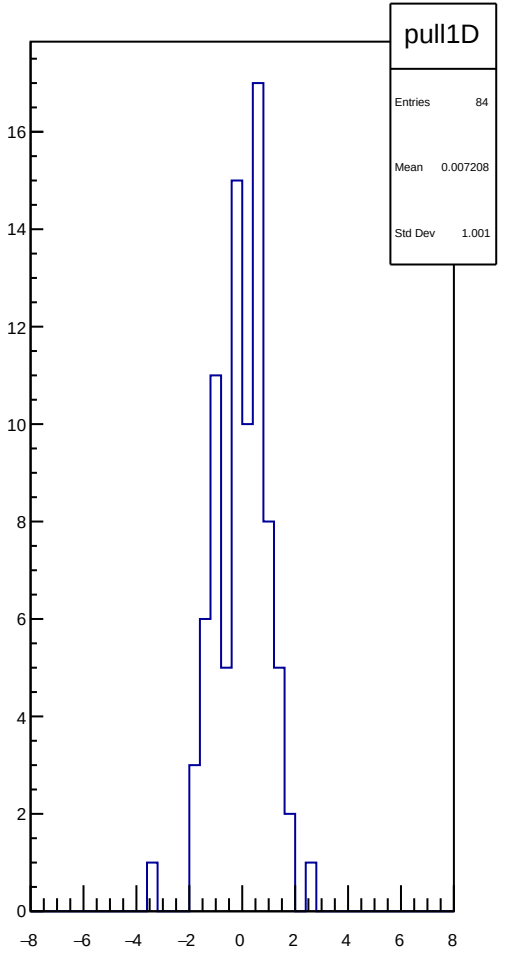

pull1D
Entries 84
Mean 0.007206
Std Dev 1.001
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

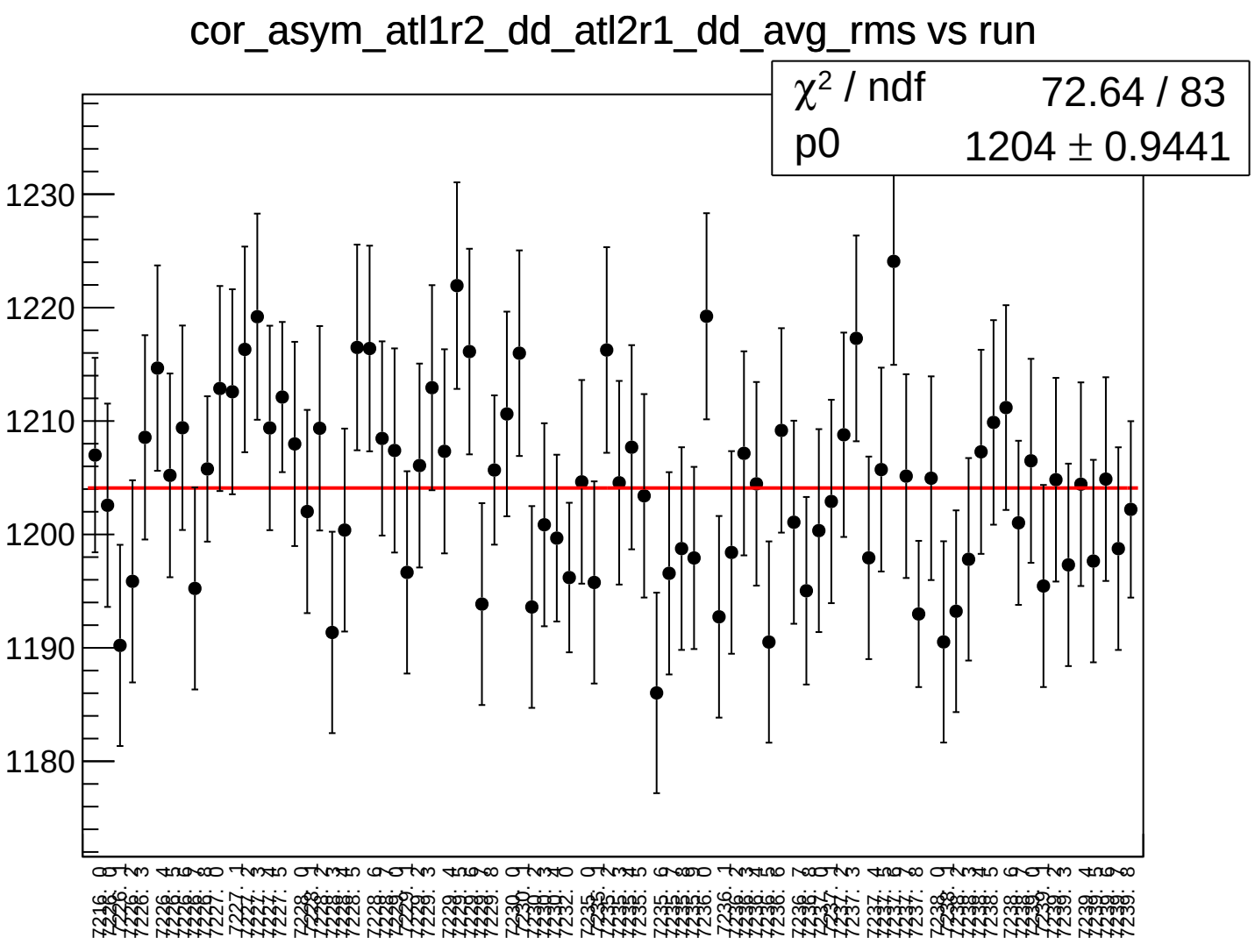

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 72.64 / 83
p0 1204 ± 0.9441
1230
1220
1210
1200
1190
1180

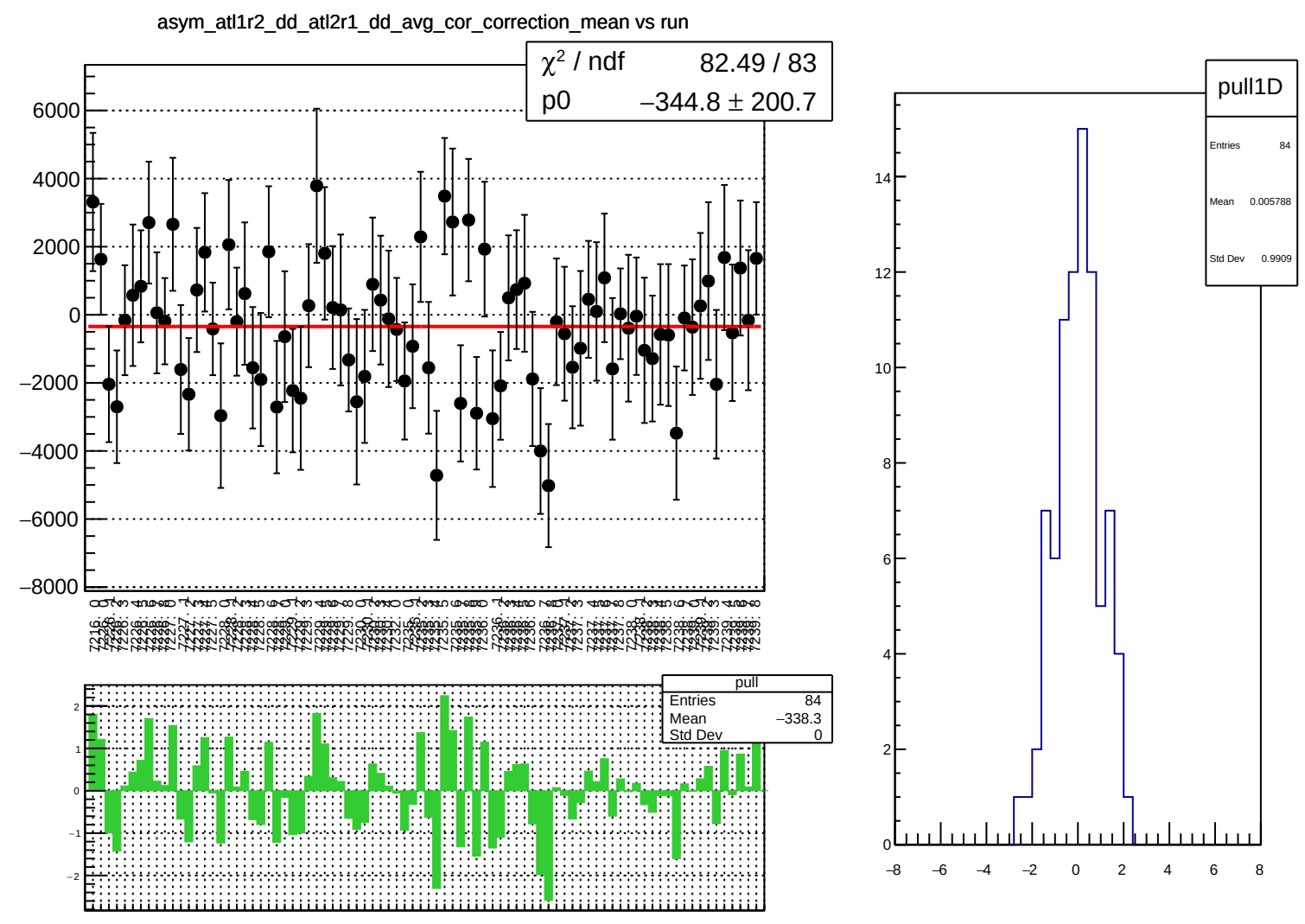

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 82.5 / 83
p0 −344.7 ± 200.7
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 84
Mean −345.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.005685
Std Dev 0.991
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

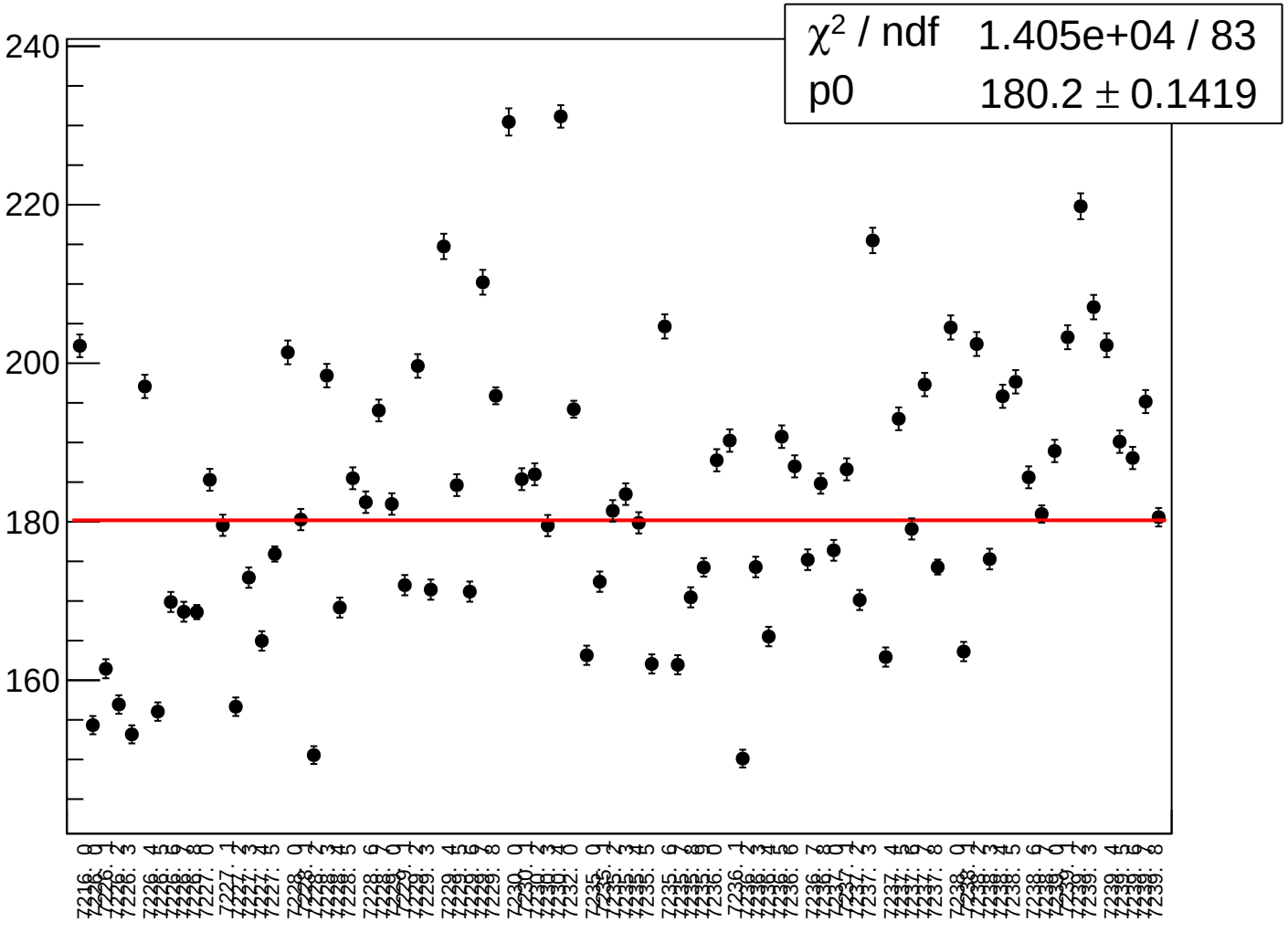

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 1.404e+04 / 83
p0 180.2 ± 0.1419
240
220
200
180
160

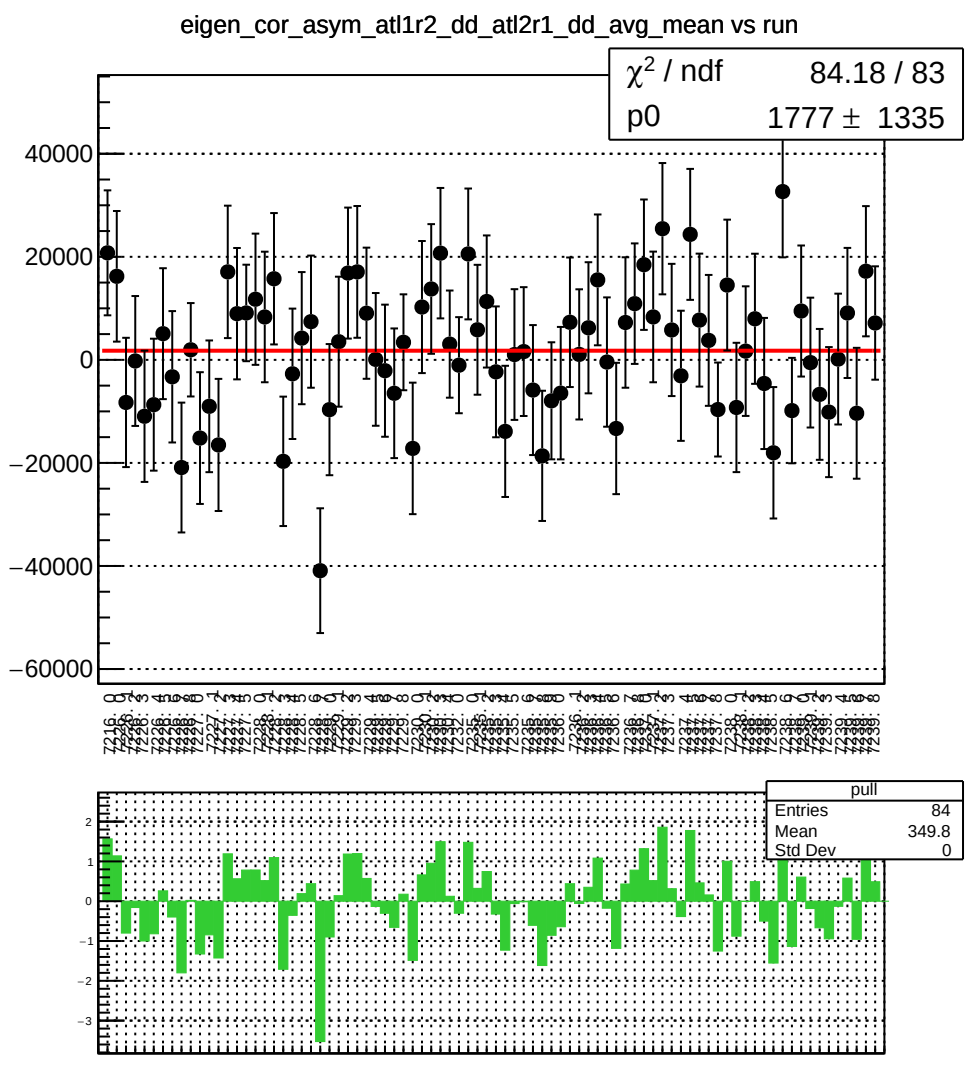

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 84.18 / 83
p0 1777 ± 1335
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 349.8
Std Dev 0
2
1
0
−1
−2
−3

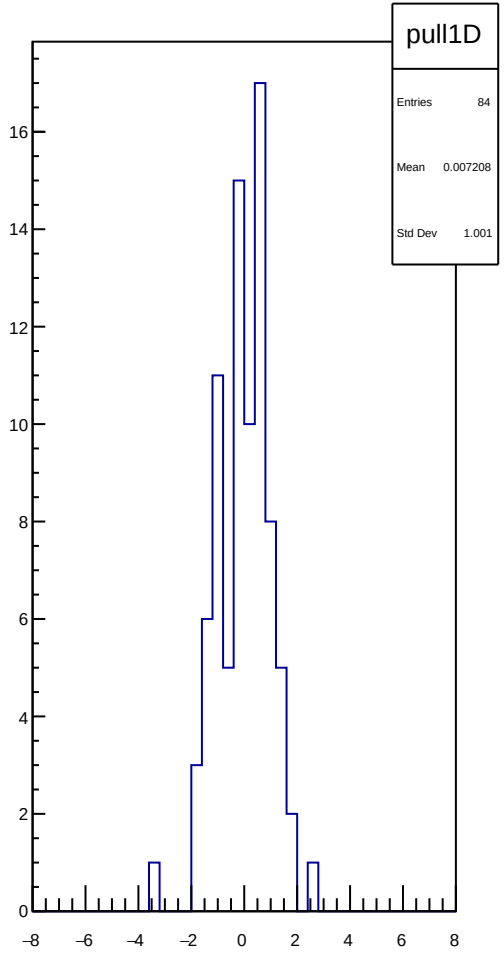

pull1D
Entries 84
Mean 0.007208
Std Dev 1.001
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

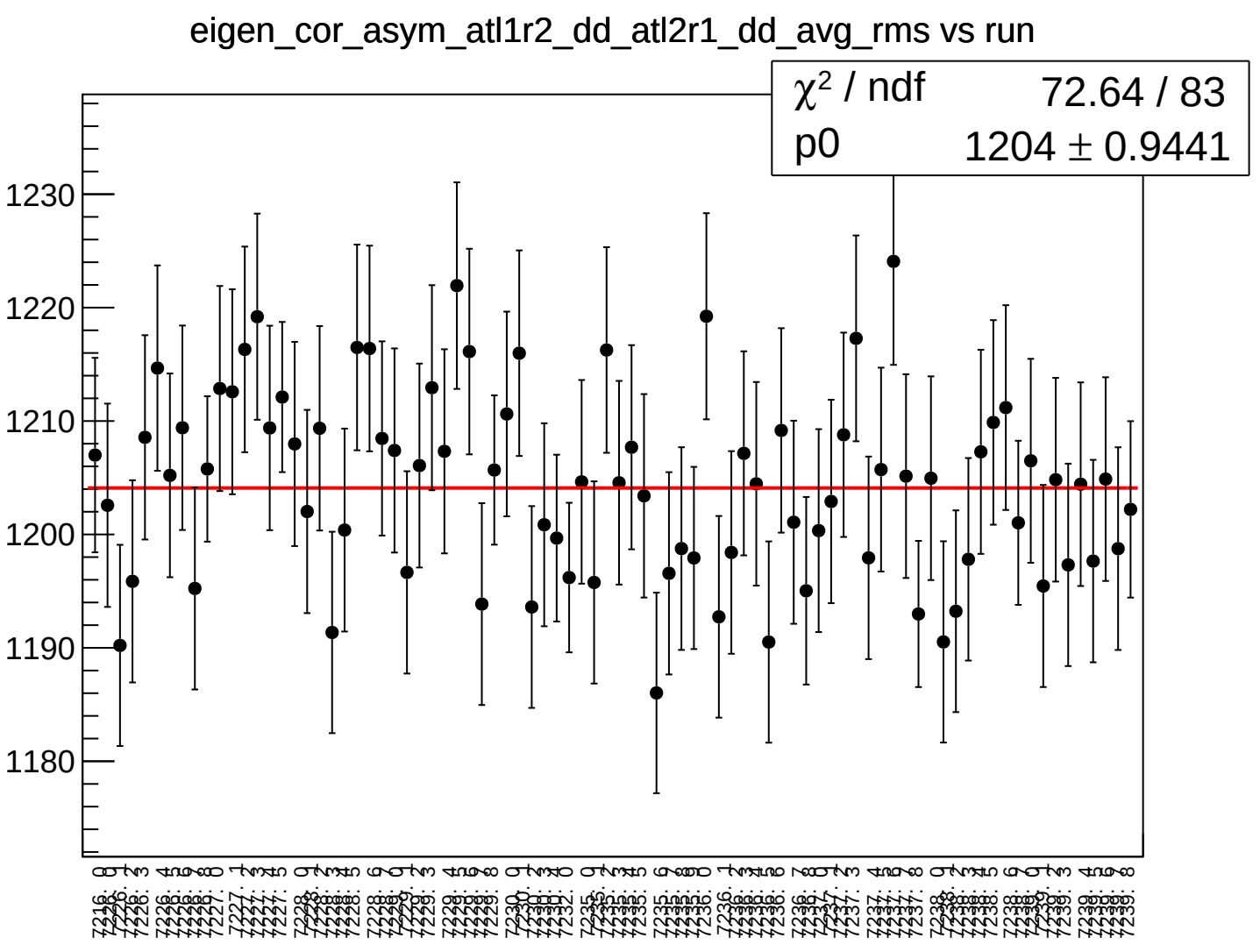

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 72.64 / 83
p0 1204 ± 0.9441
1230
1220
1210
1200
1190
1180

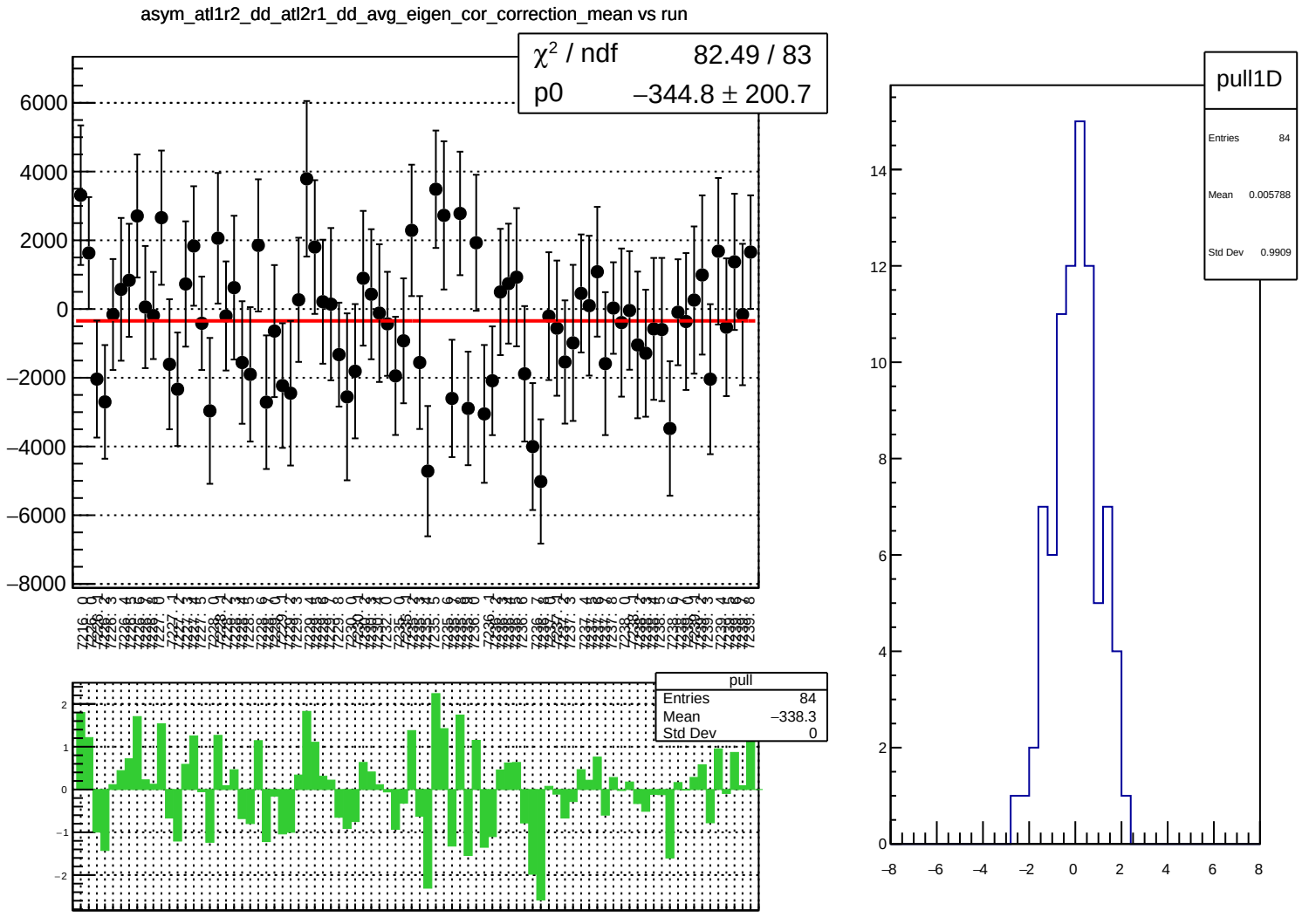

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 82.49 / 83
p0 −344.8 ± 200.7
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 84
Mean −338.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.005788
Std Dev 0.9909
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

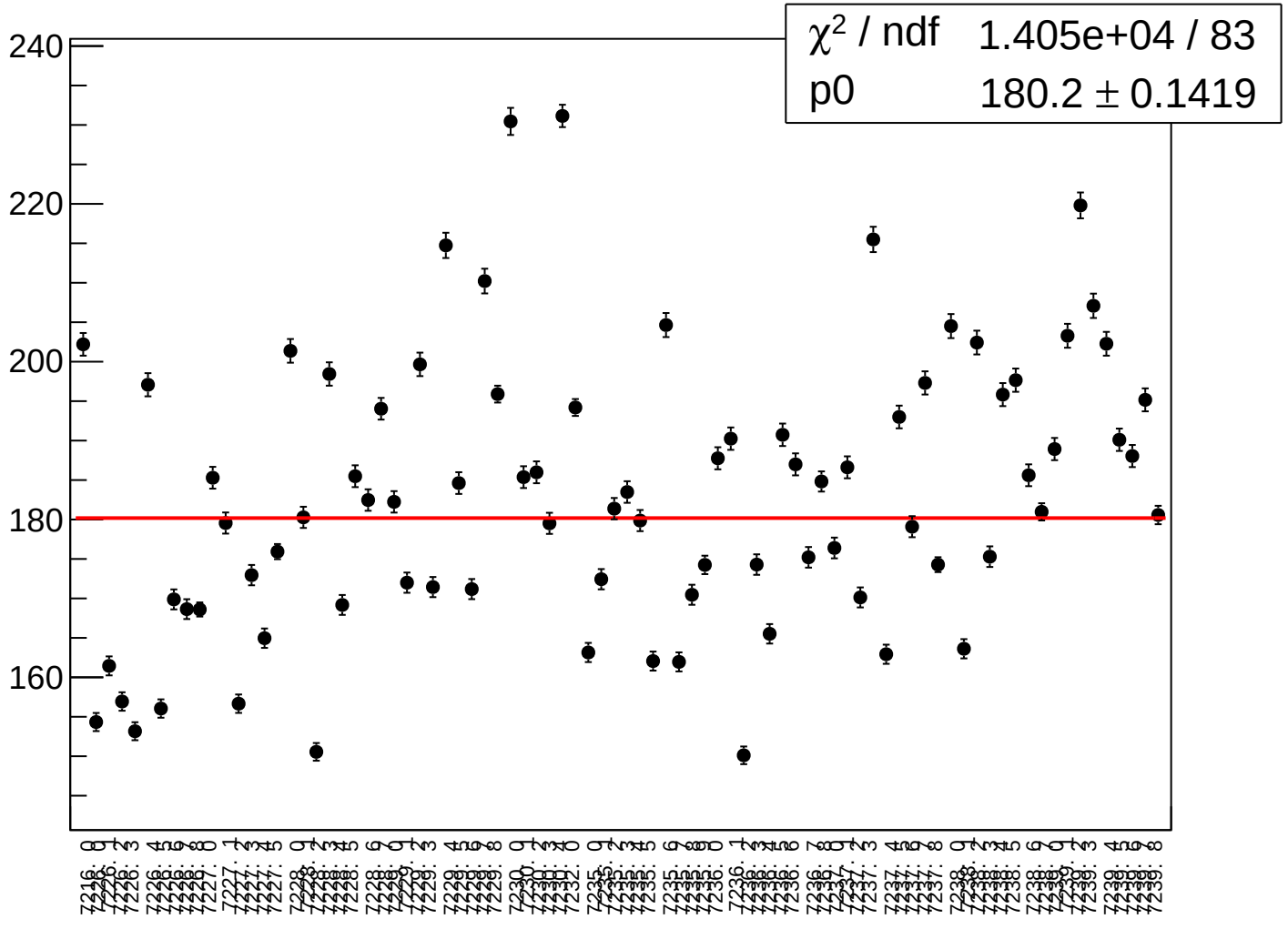

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 1.405e+04 / 83
p0 180.2 ± 0.1419
240
220
200
180
160

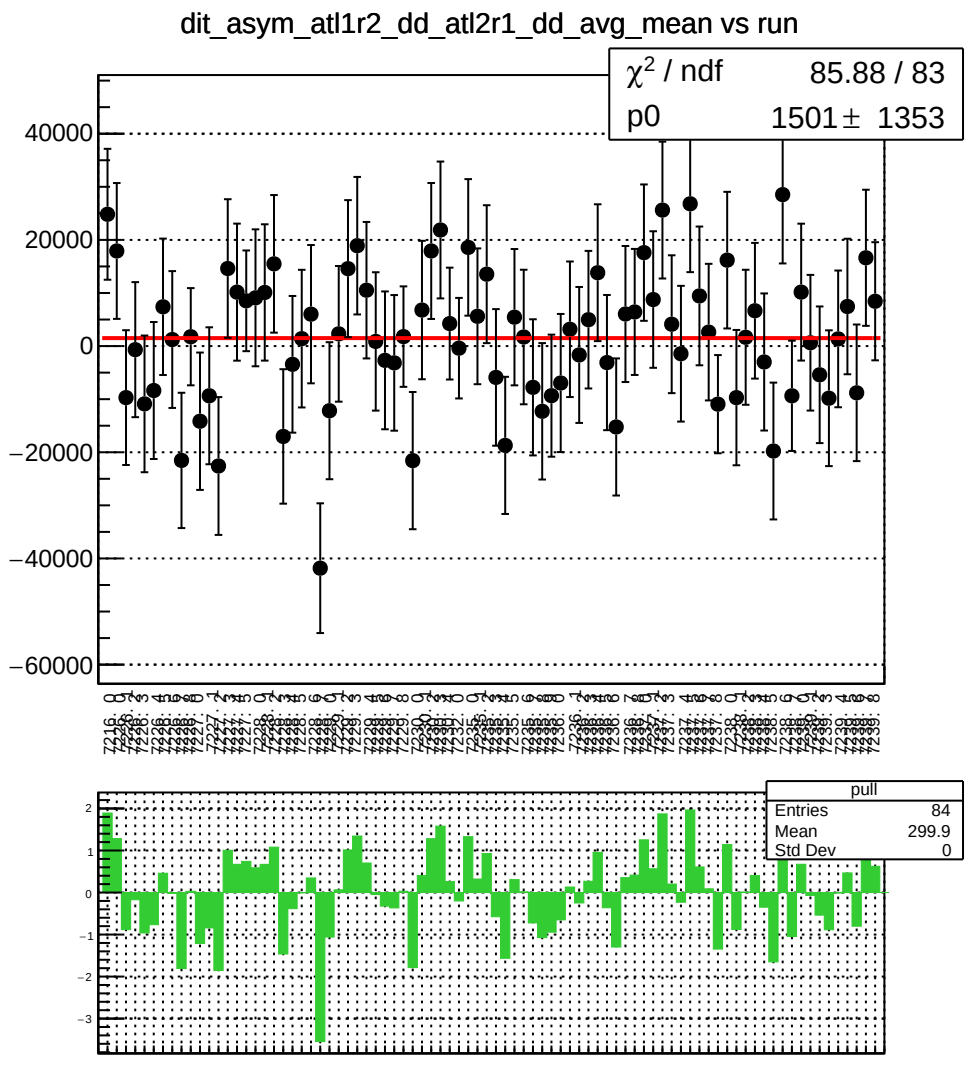

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 84.18 / 83
p0 1777 ± 1335
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 349.8
Std Dev 0
2
1
0
−1
−2
−3

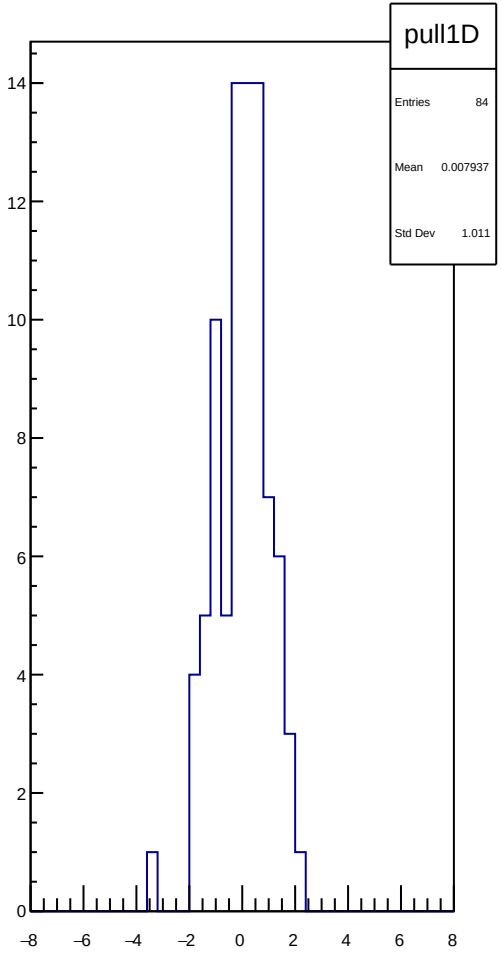

pull1D
Entries 84
Mean 0.007208
Std Dev 1.001
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

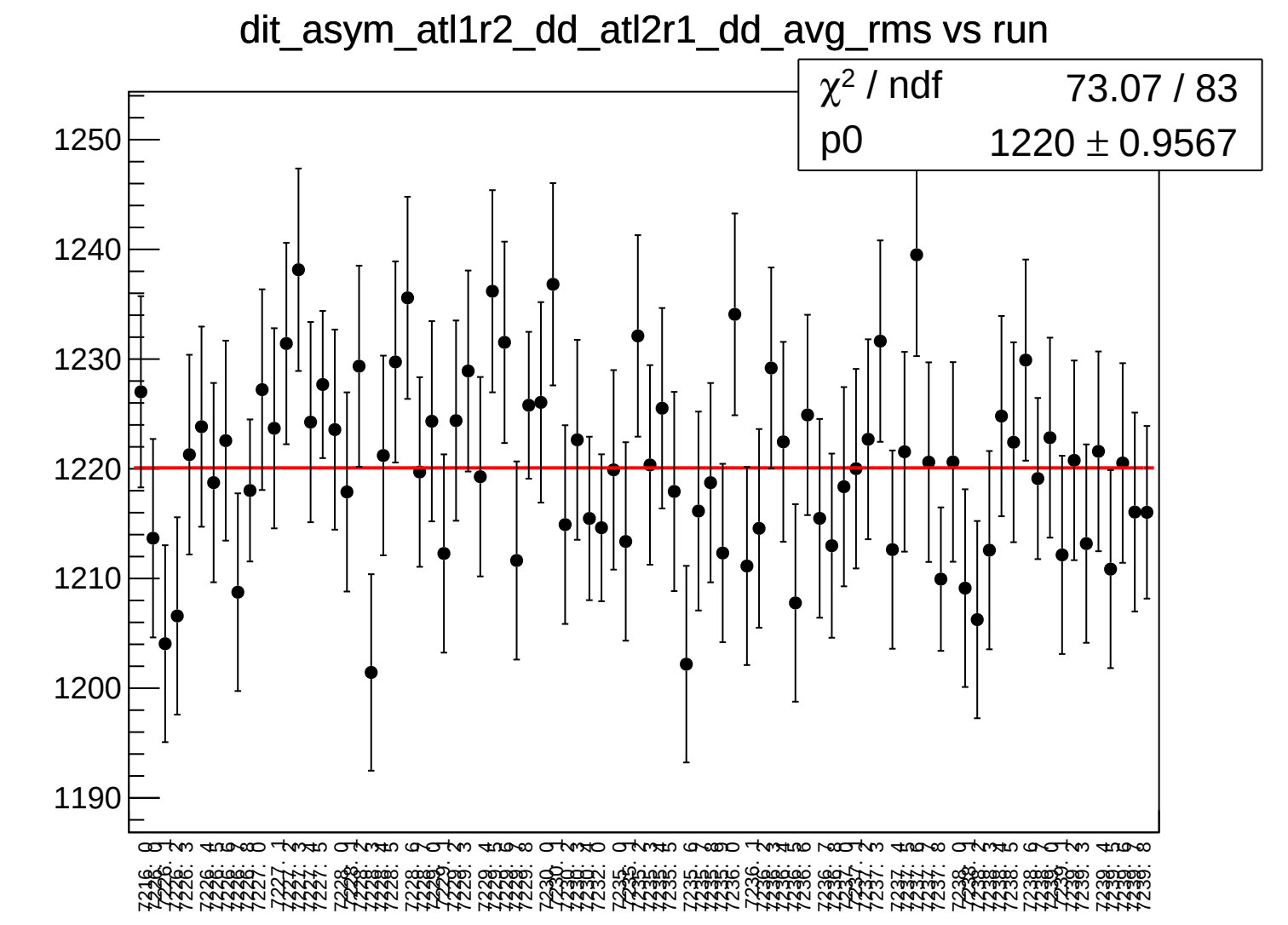

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 72.64 / 83
p0 1204 ± 0.9441
1230
1220
1210
1200
1190
1180

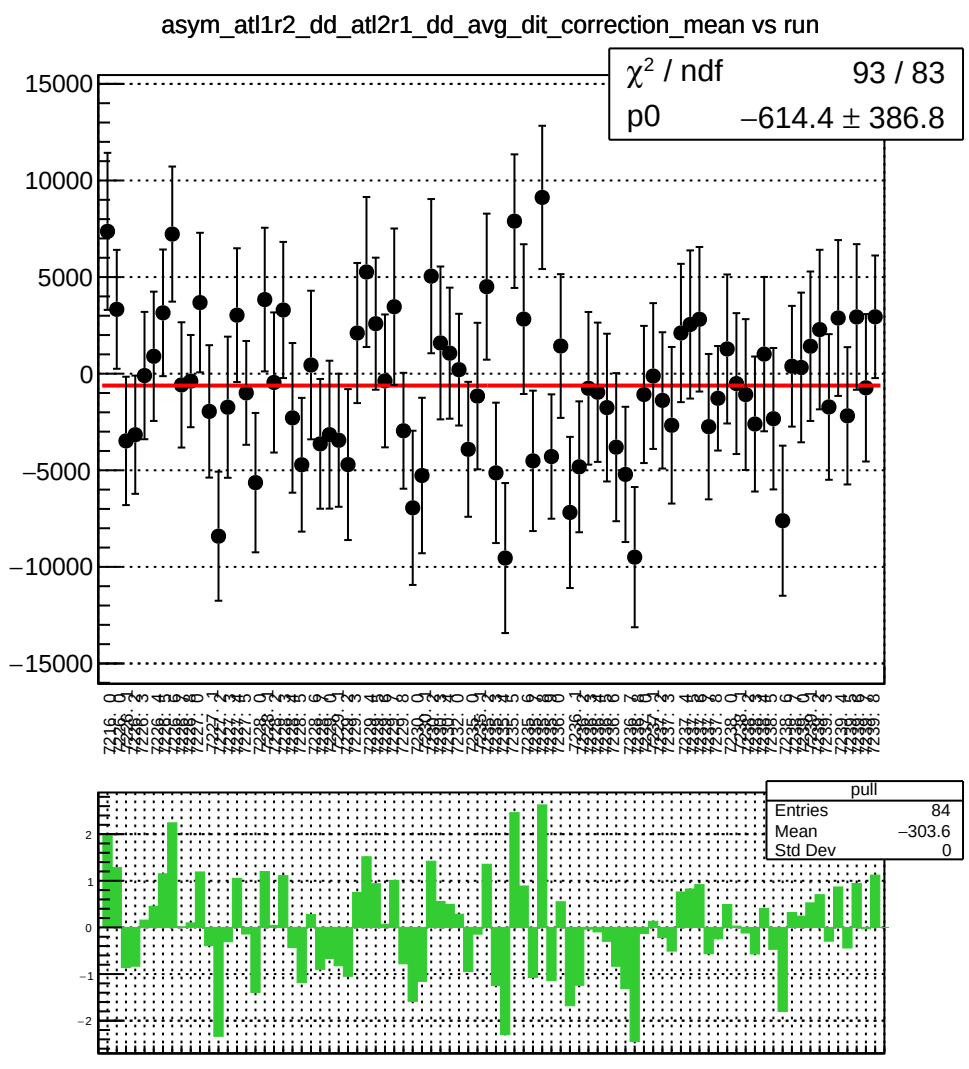

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 82.49 / 83
p0 −344.8 ± 200.7
pull
Entries 84
Mean −338.3
Std Dev 0
pull1D
Entries 84
Mean 0.005788
Std Dev 0.9909

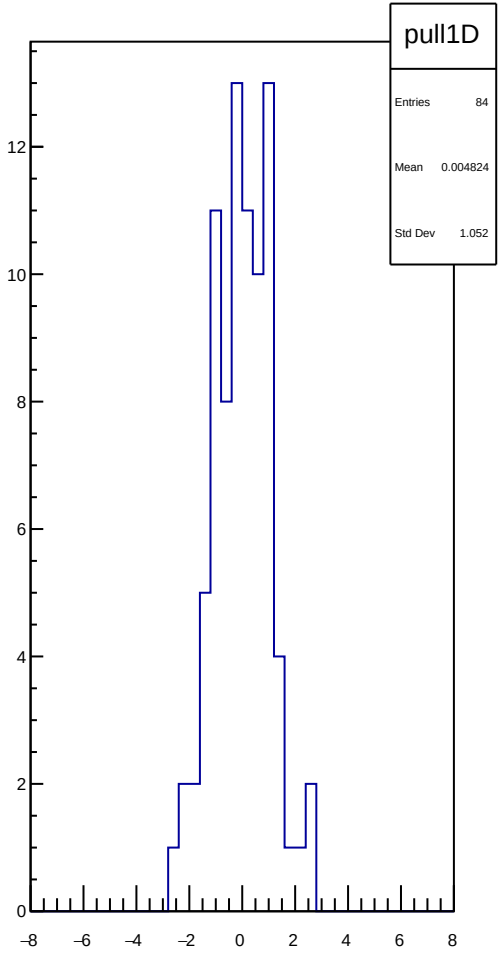

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.405e+04 / 83
p0 180.2 ± 0.1419
240
220
200
180
160

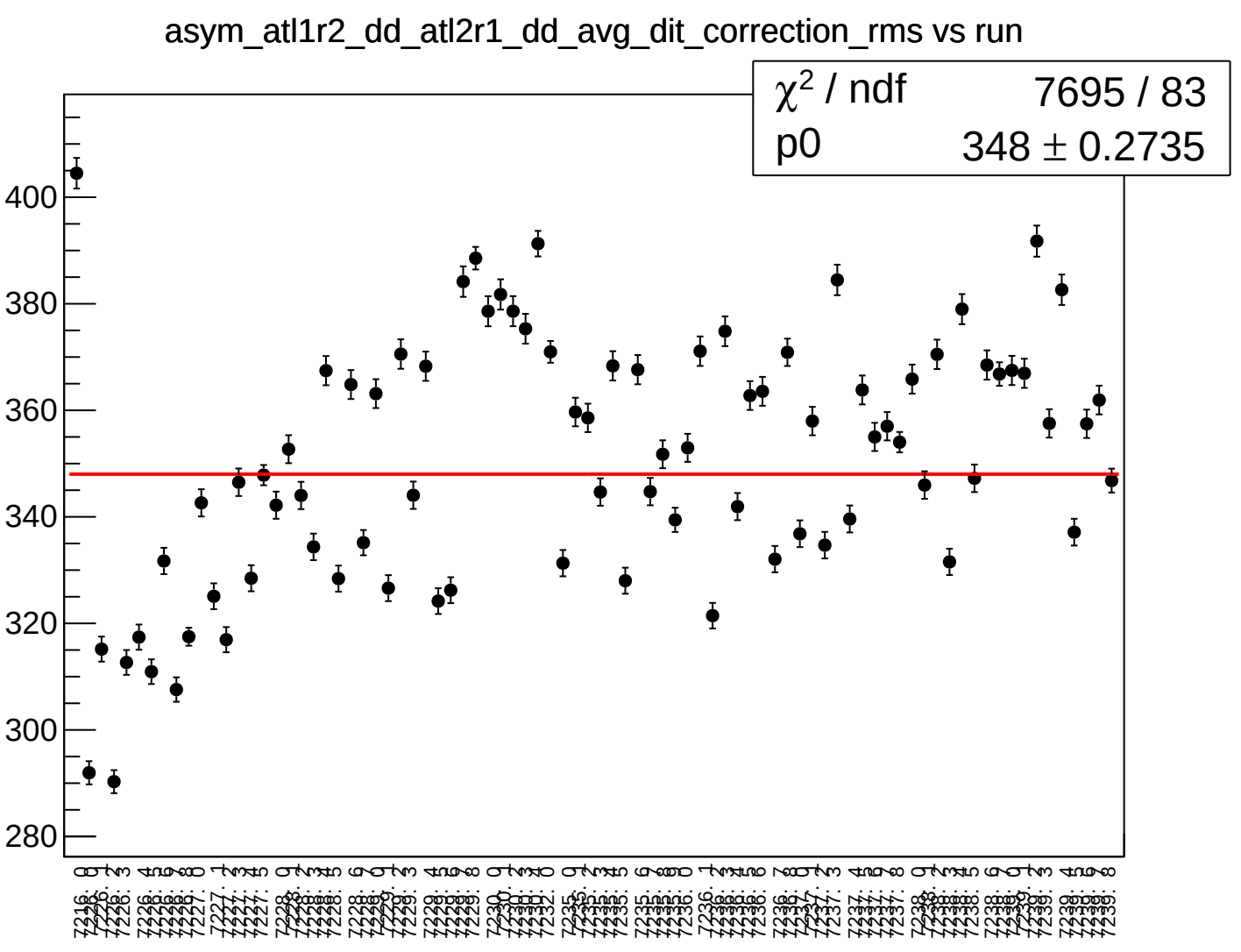

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 85.88 / 83
p0 1501 ± 1353
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 299.9
Std Dev 0
2
1
0
−1
−2
−3

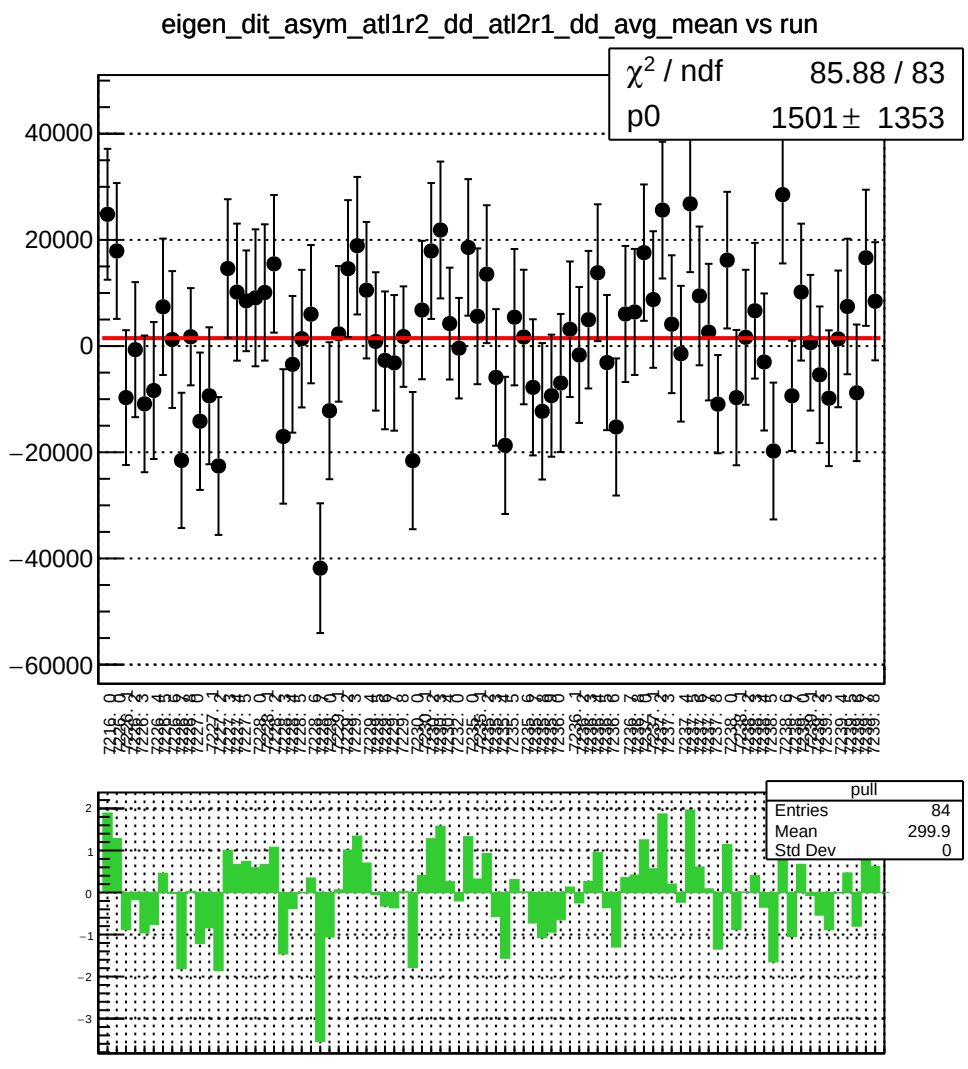

pull1D
Entries 84
Mean 0.007937
Std Dev 1.011
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

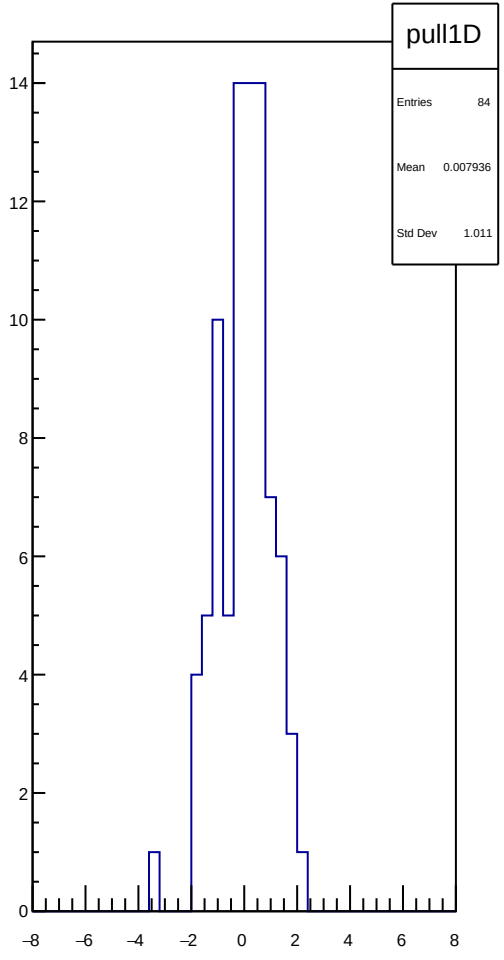

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 73.07 / 83
p0 1220 ± 0.9567
1250
1240
1230
1220
1210
1200
1190

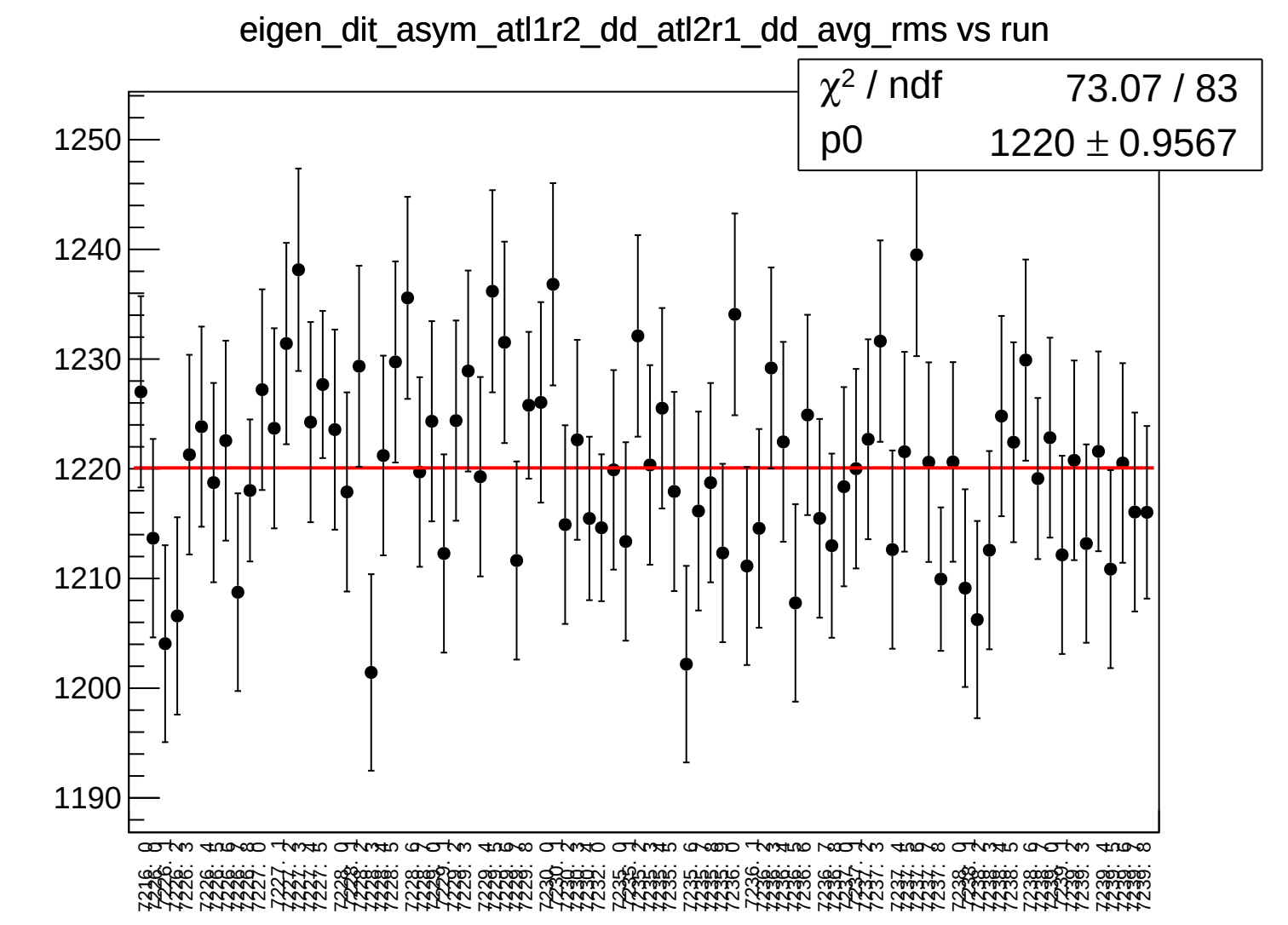

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 93 / 83
p0 −614.4 ± 386.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −303.6
Std Dev 0
2
1
0
−1
−2

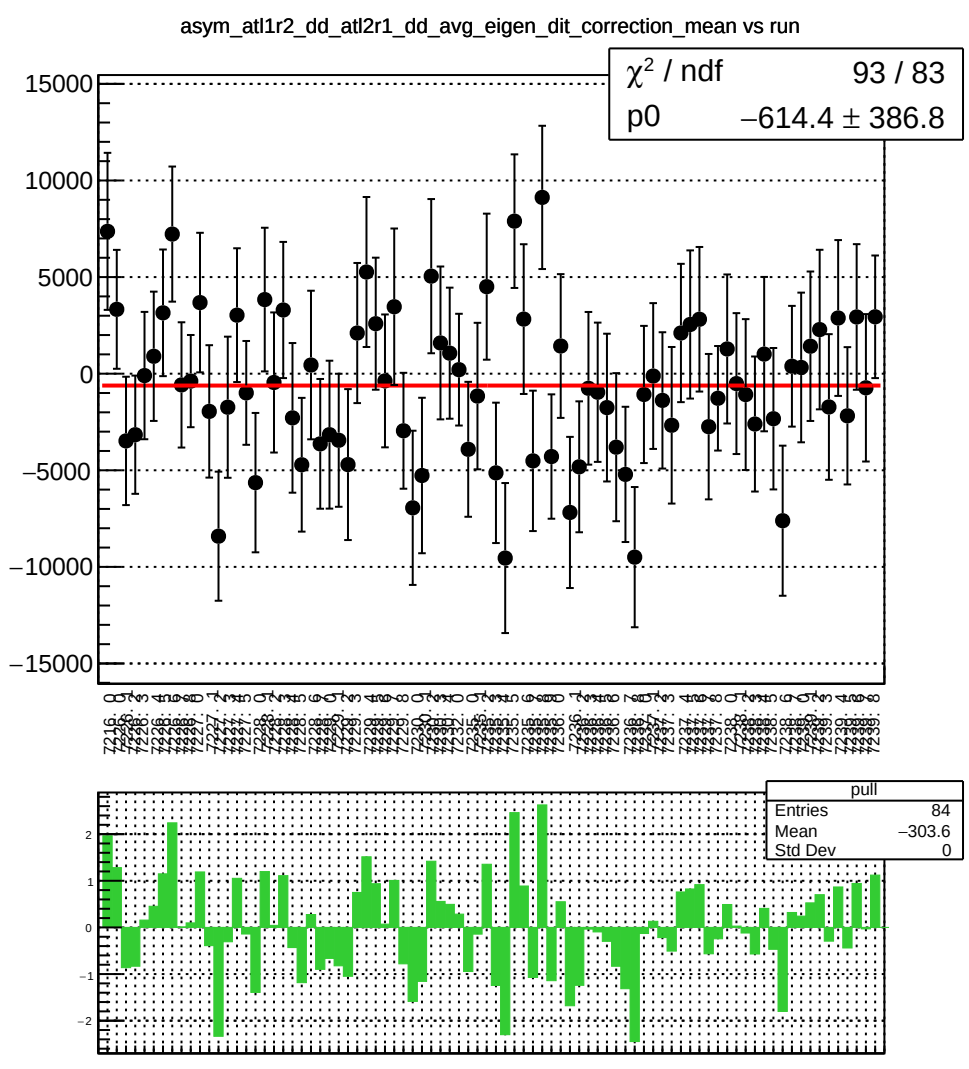

pull1D
Entries 84
Mean 0.004824
Std Dev 1.052
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

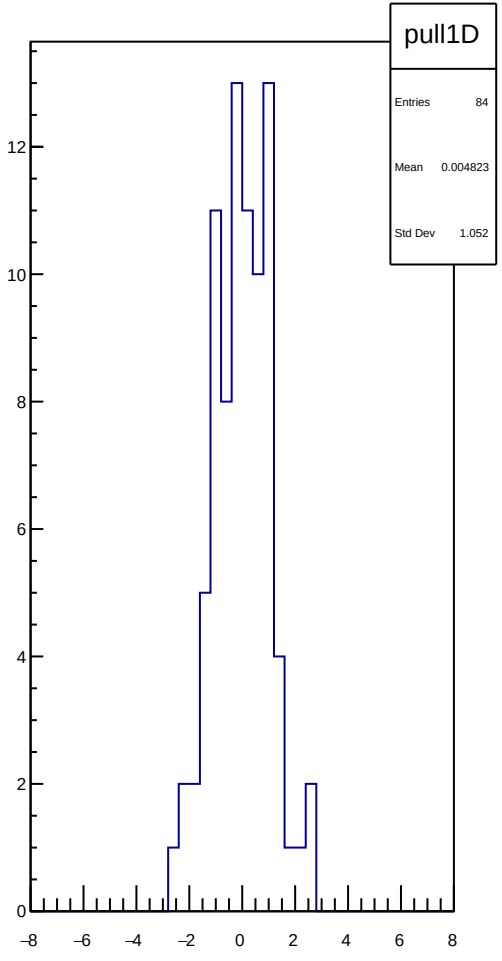

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 7695 / 83
p0 348 ± 0.2735
400
380
360
340
320
300
280

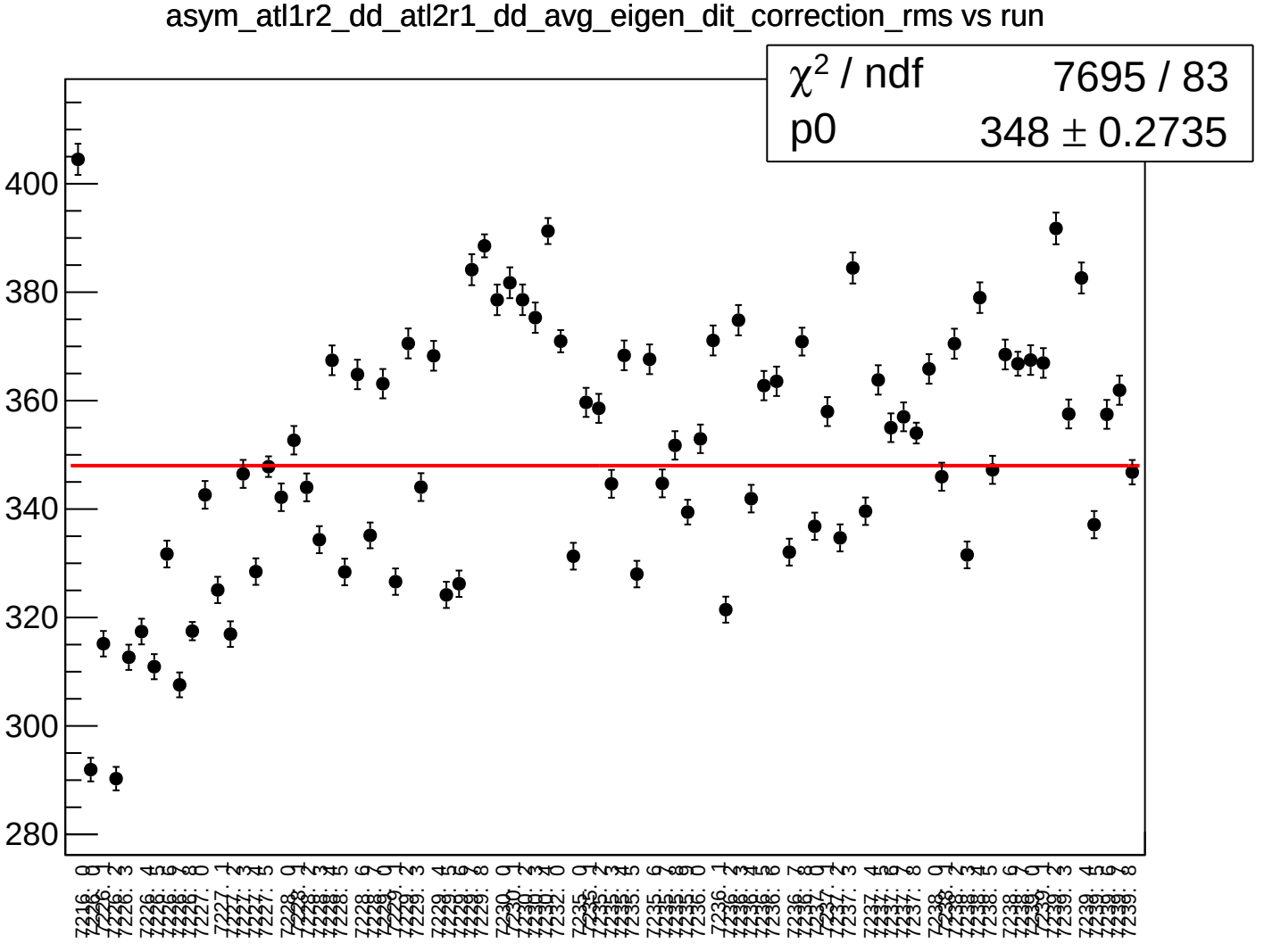

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 85.88 / 83
p0 1501 ± 1353
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 299.9
Std Dev 0
2
1
0
−1
−2
−3

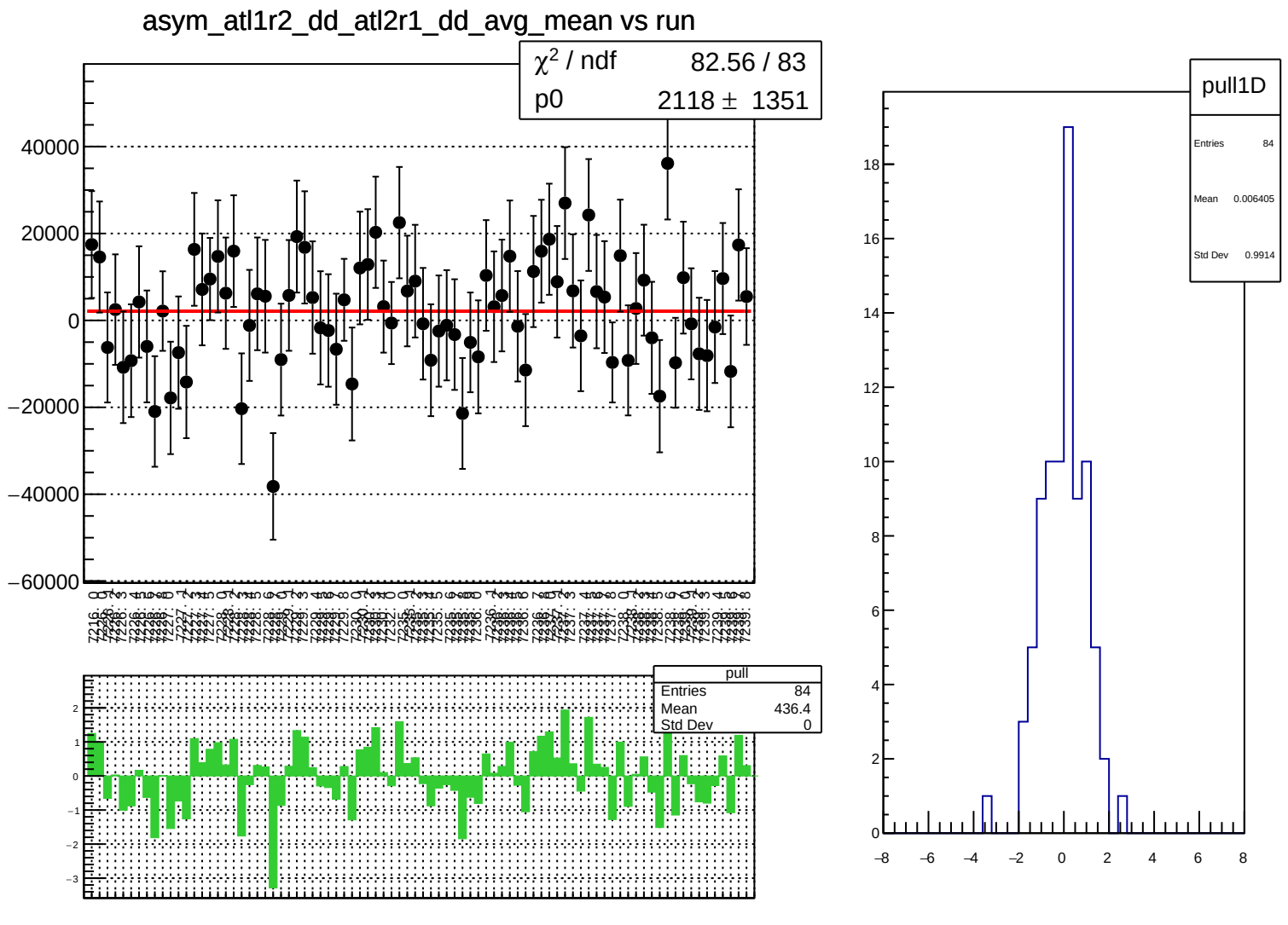

pull1D
Entries 84
Mean 0.007936
Std Dev 1.011
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

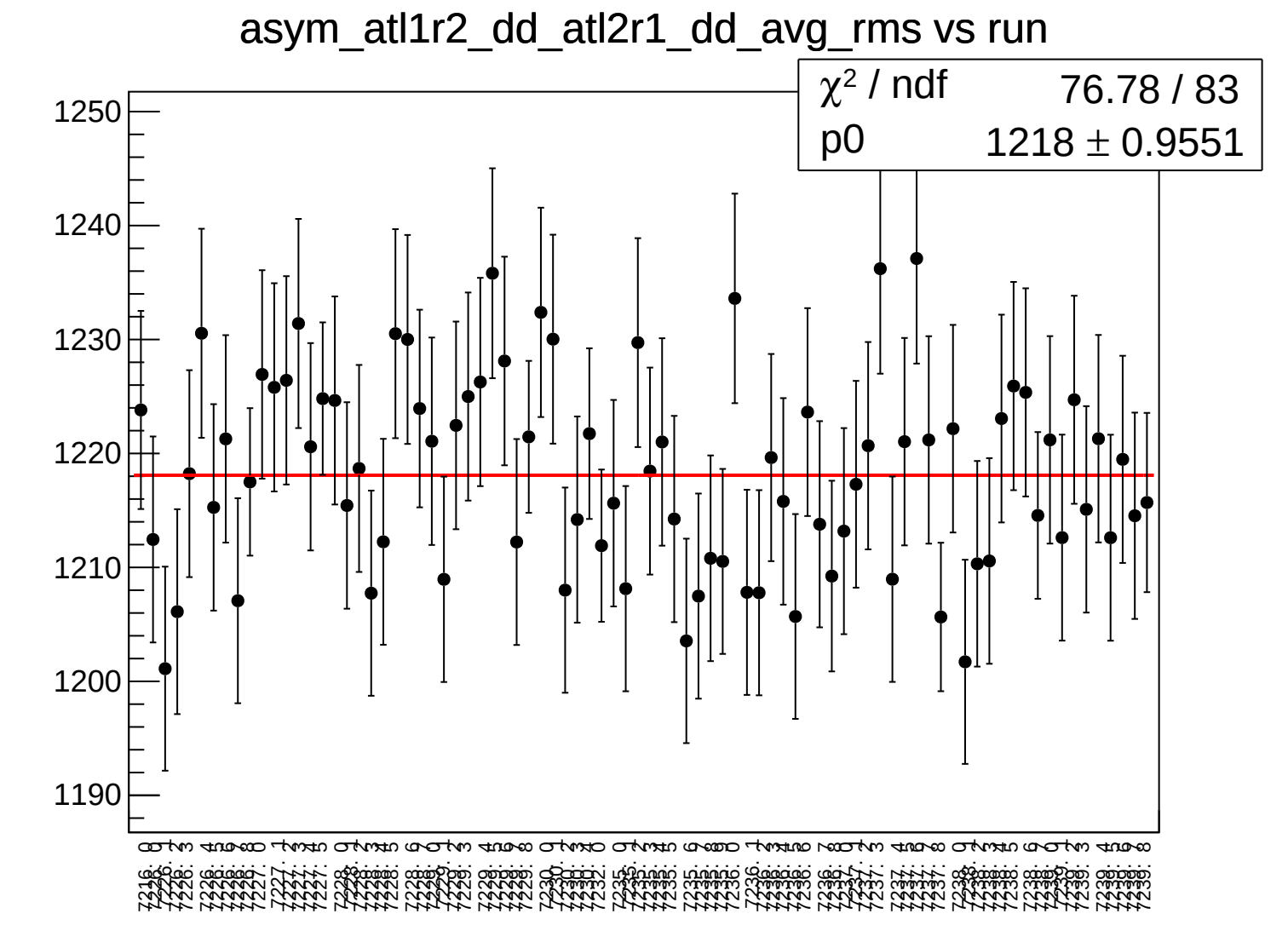

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ^2 / ndf 73.07 / 83
p0 1220 ± 0.9567
1250
1240
1230
1220
1210
1200
1190

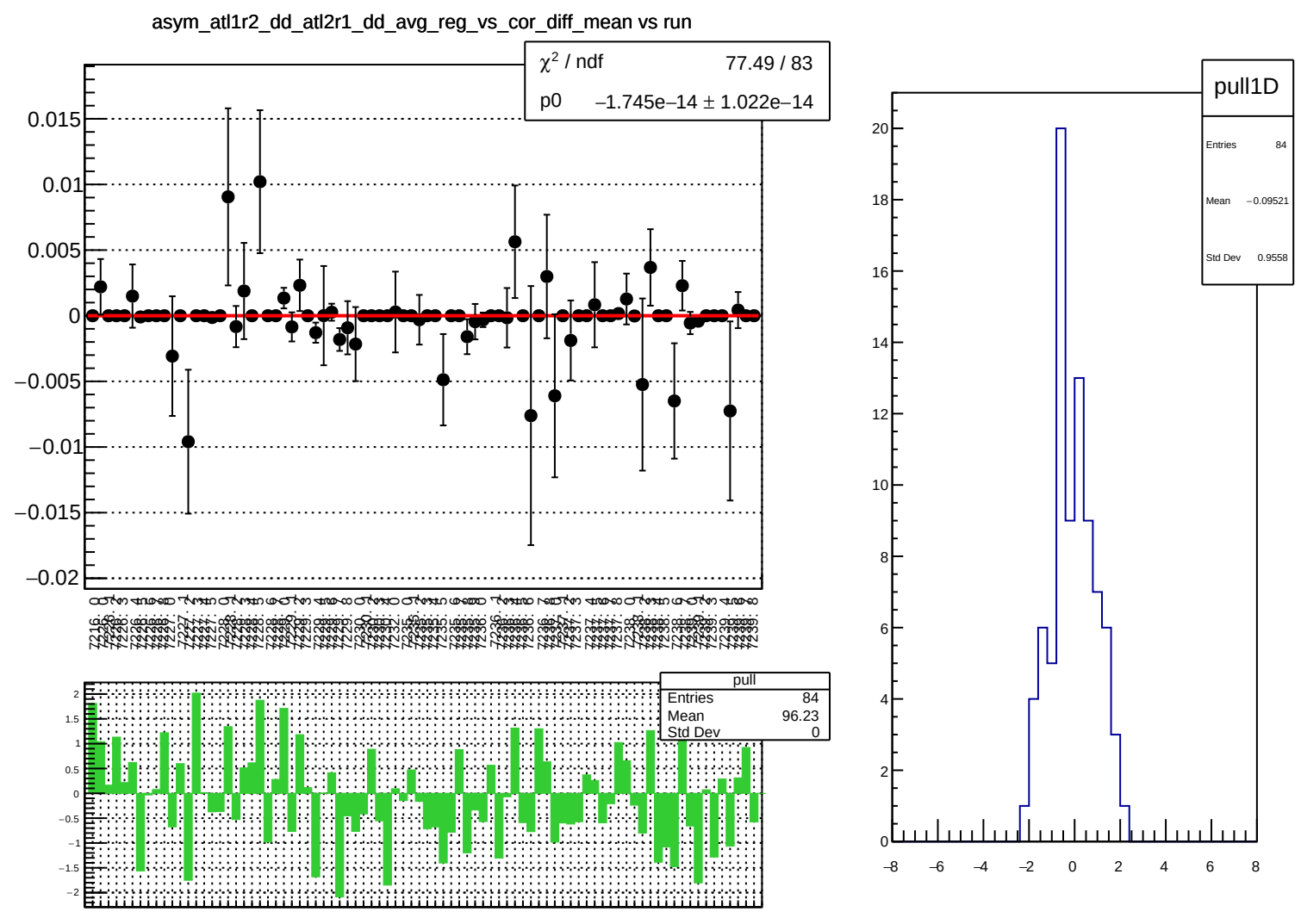

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 93 / 83
p0 −614.4 ± 386.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −303.6
Std Dev 0
2
1
0
−1
−2

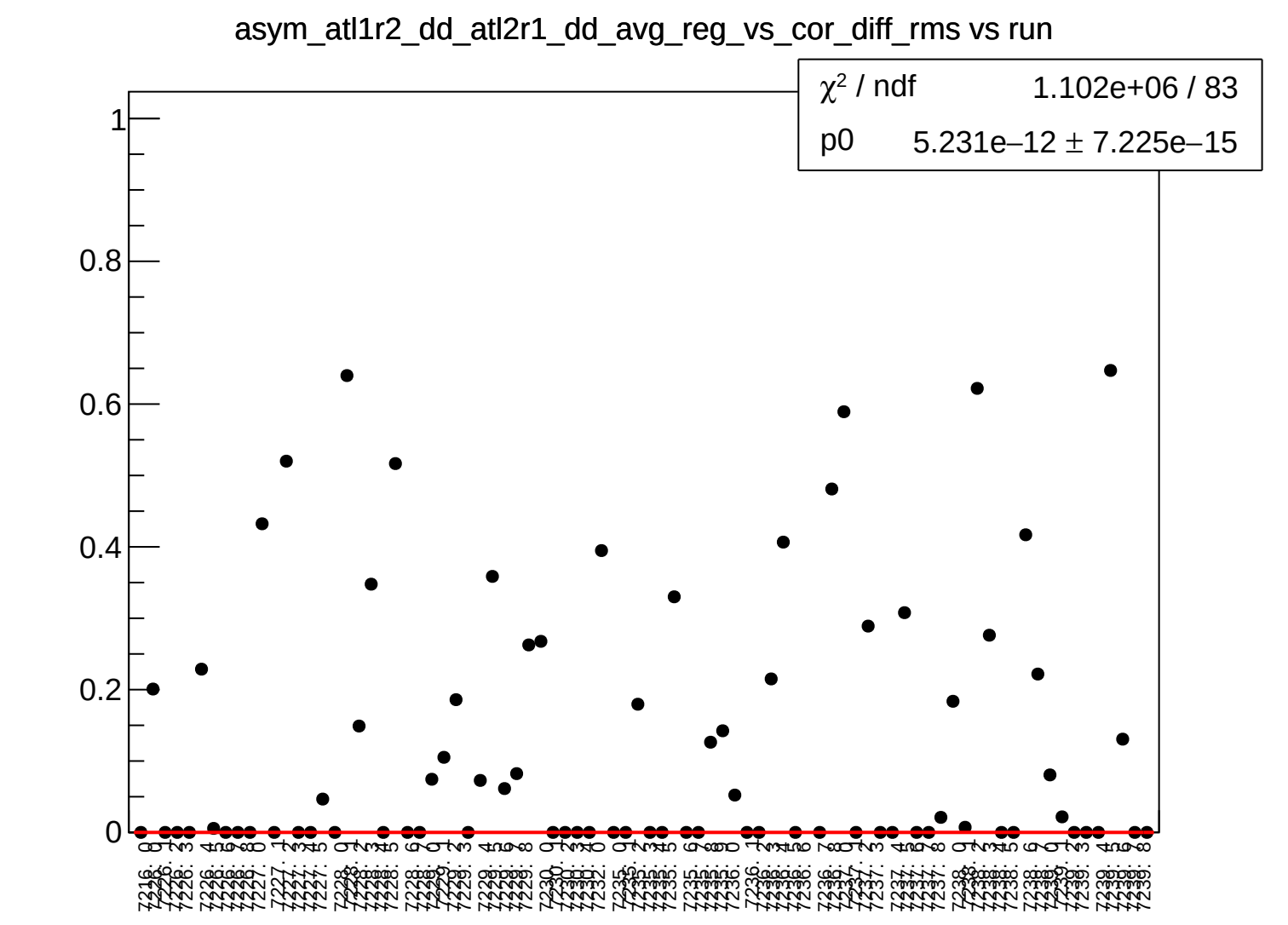

pull1D
Entries 84
Mean 0.004823
Std Dev 1.052
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

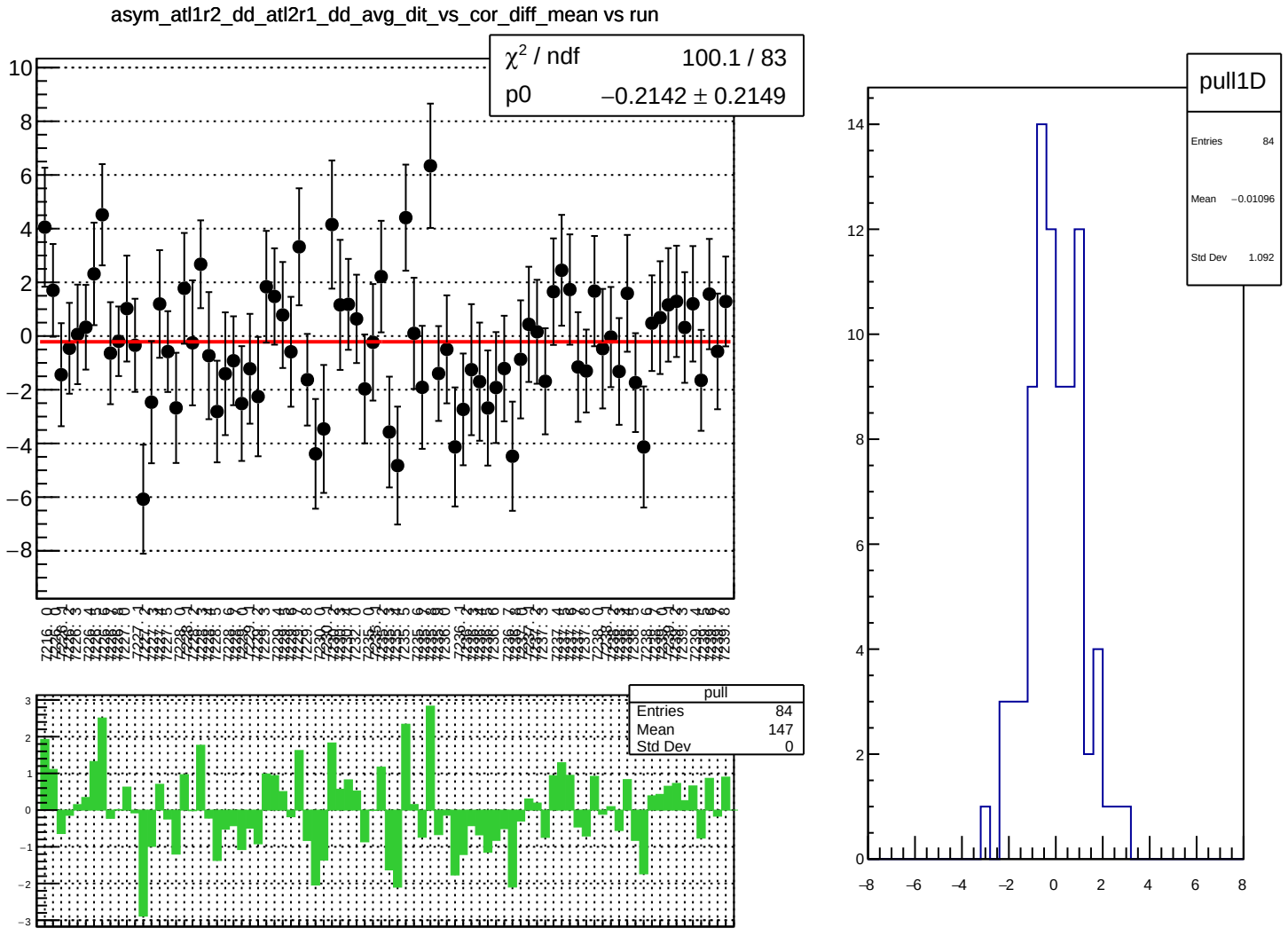

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 7695 / 83
p0 348 ± 0.2735
400
380
360
340
320
300
280

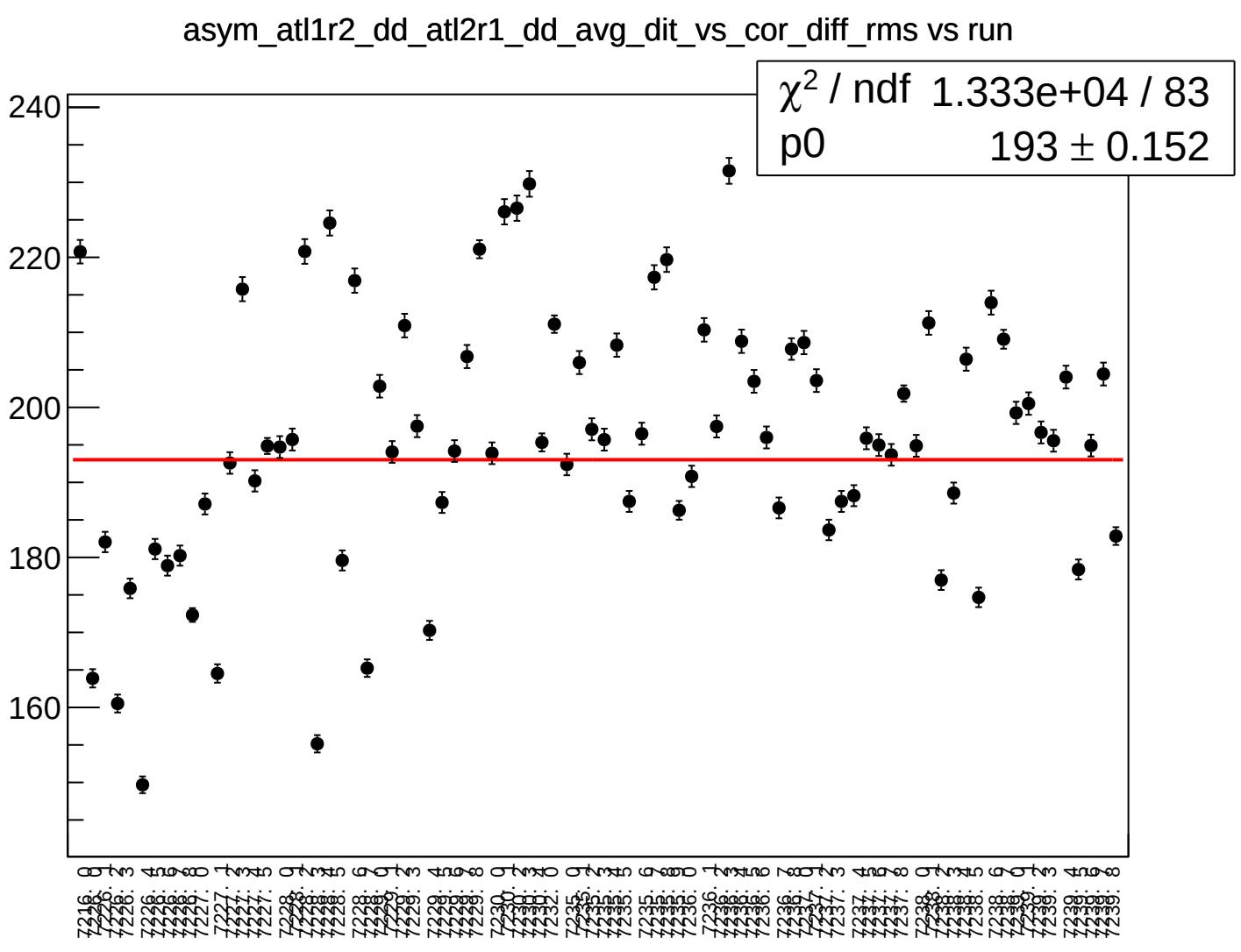

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 82.56 / 83
p0 2118 ± 1351
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 436.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean 0.006405
Std Dev 0.9914
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

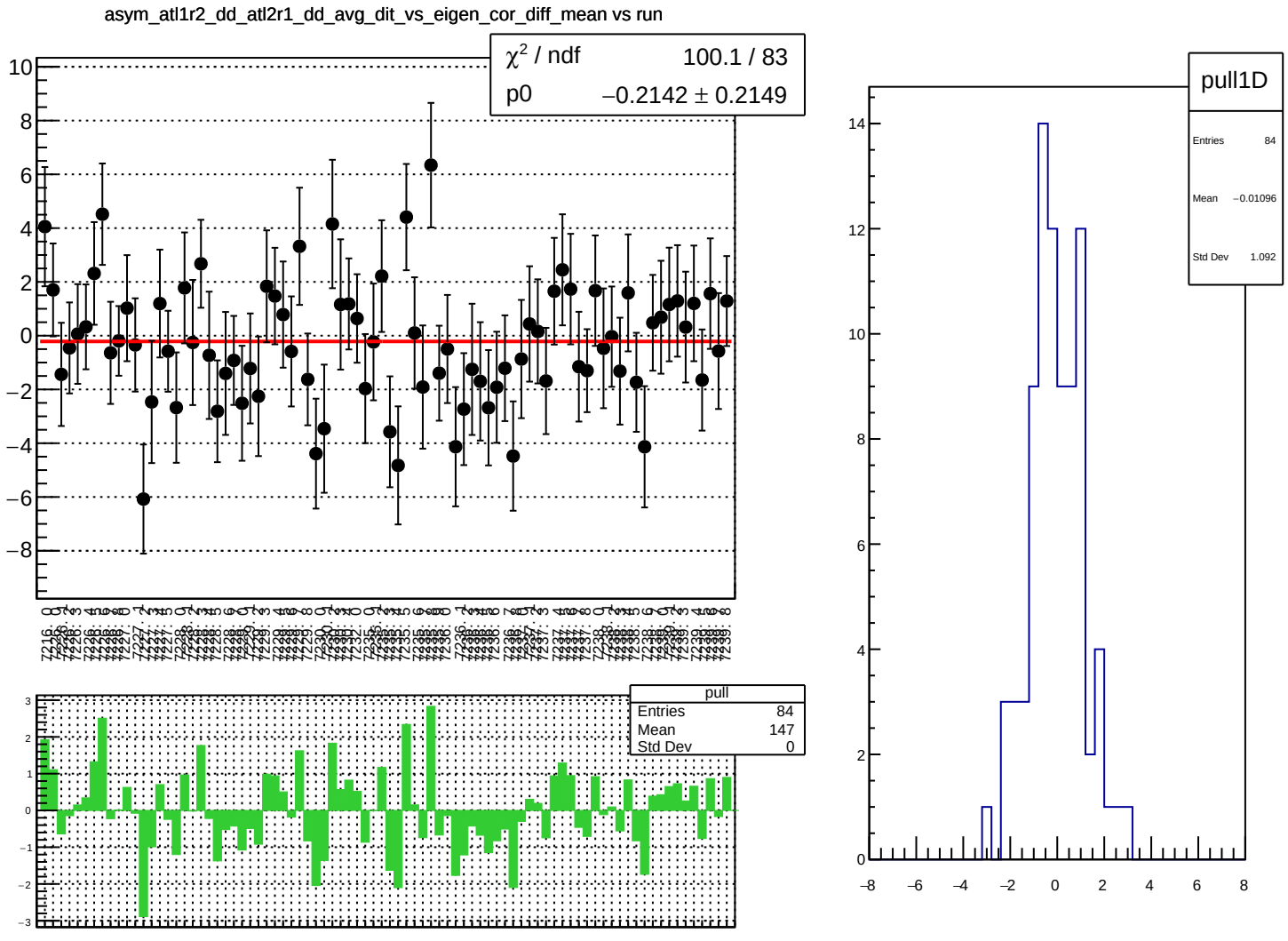

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 76.78 / 83
p0 1218 ± 0.9551
1250
1240
1230
1220
1210
1200
1190

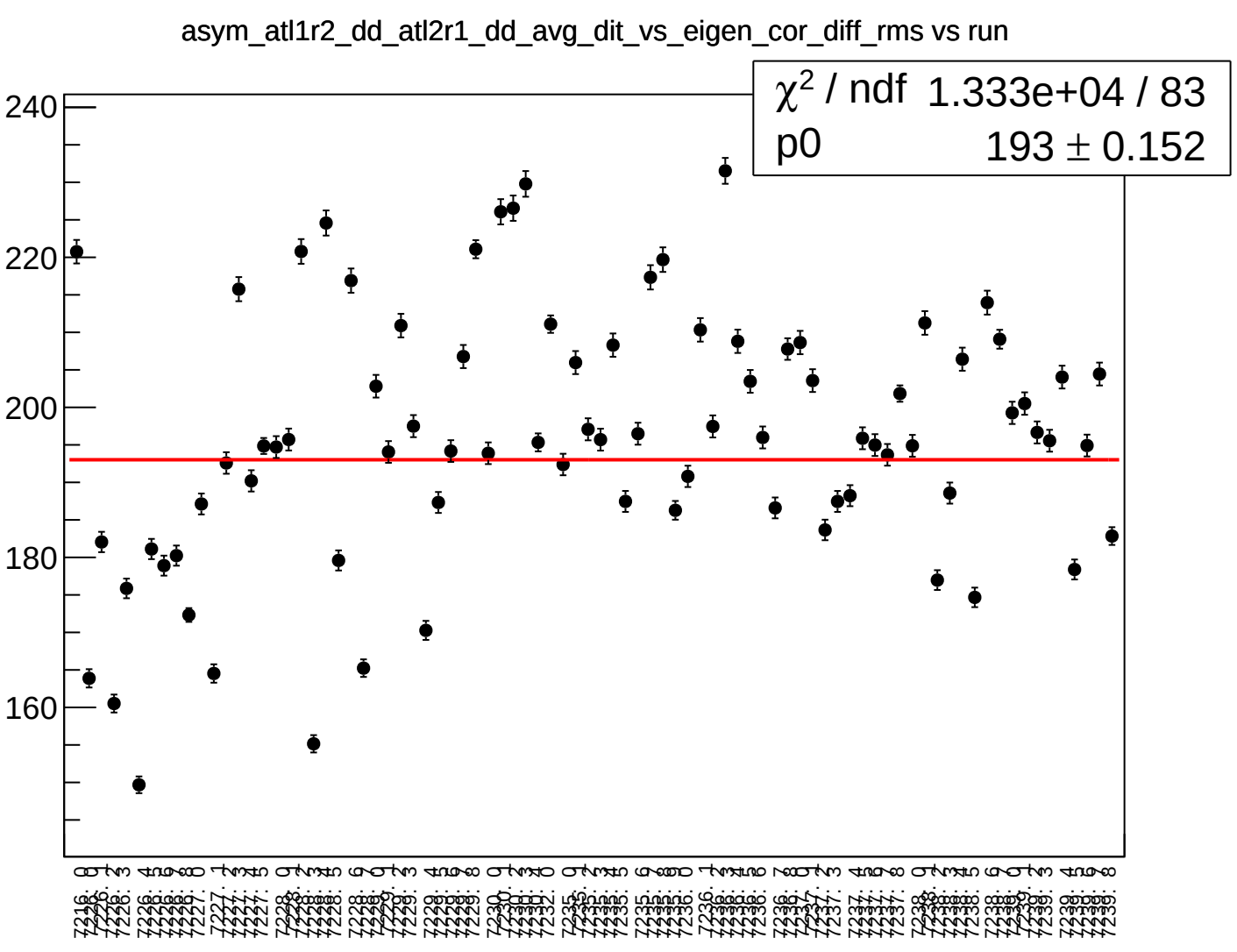

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 77.49 / 83
p0 −1.745e−14 ± 1.022e−14
pull
Entries 84
Mean 96.23
Std Dev 0
pull1D
Entries 84
Mean −0.09521
Std Dev 0.9558

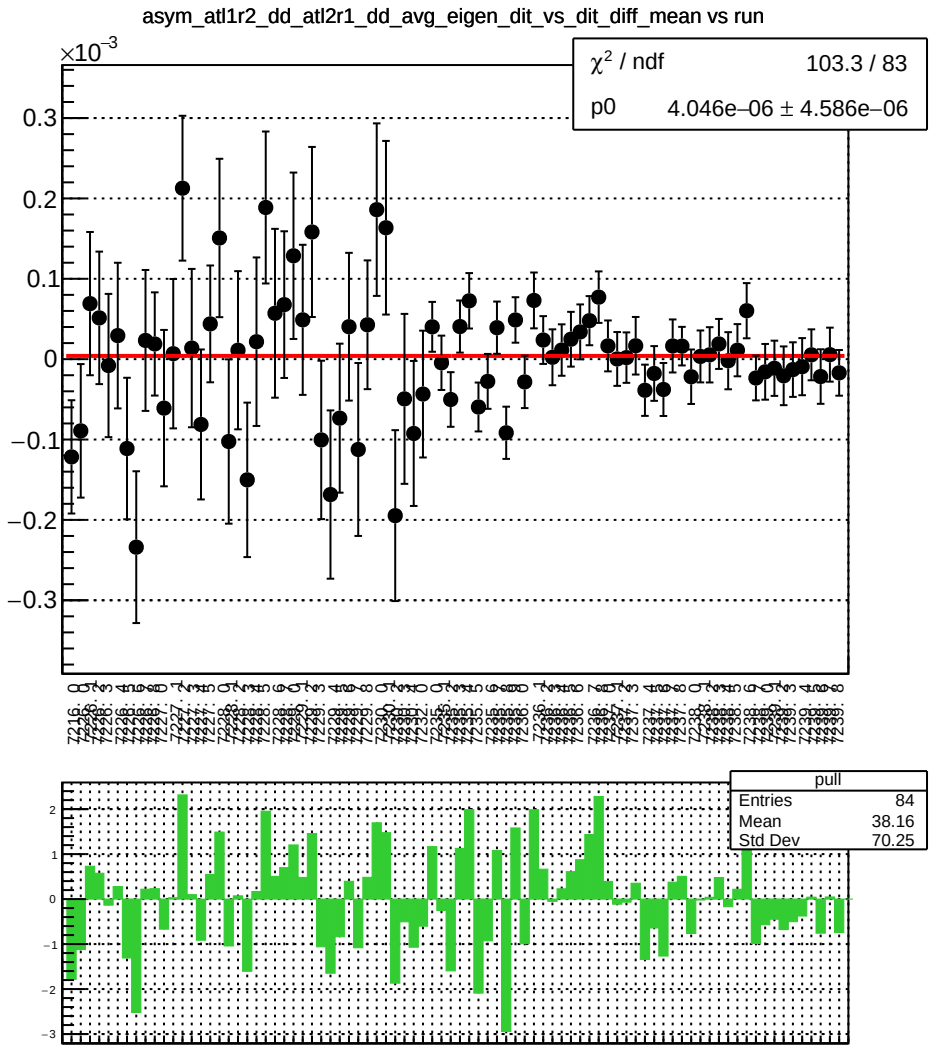

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.102e+06 / 83
p0 5.231e−12 ± 7.225e−15
1
0.8
0.6
0.4
0.2
0

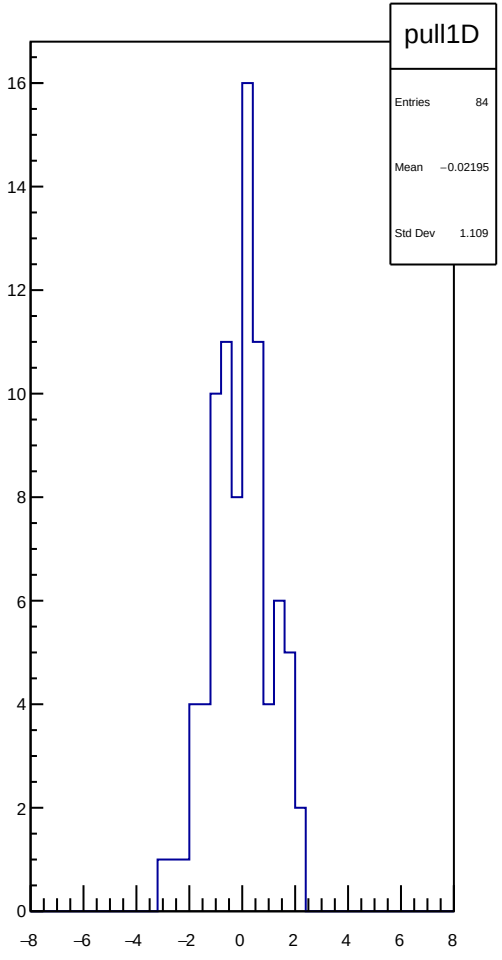

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 100.1 / 83
p0 −0.2142 ± 0.2149
pull
Entries 84
Mean 147
Std Dev 0
pull1D
Entries 84
Mean −0.01096
Std Dev 1.092

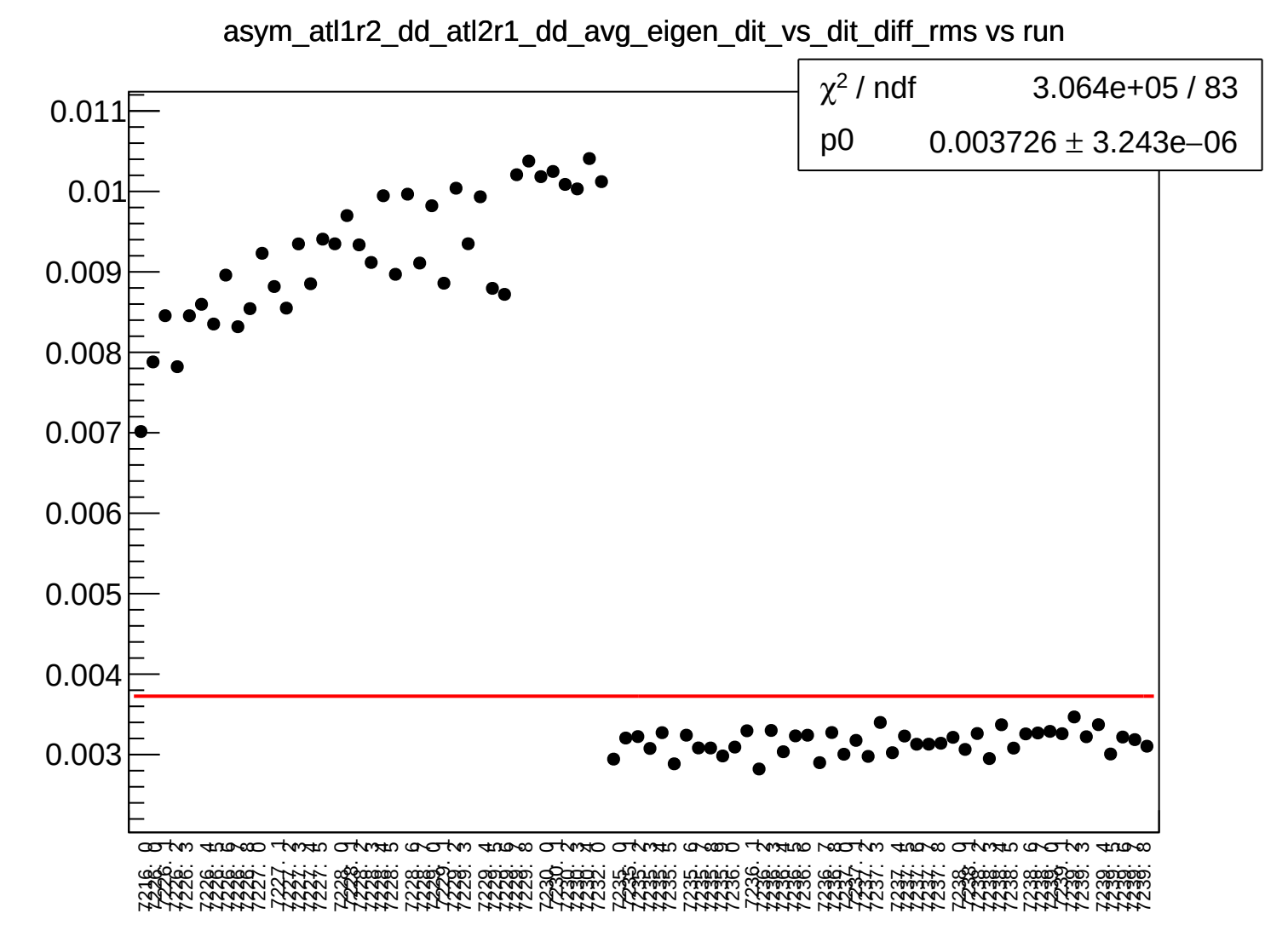

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.333e+04 / 83
p0 193 ± 0.152
240
220
200
180
160

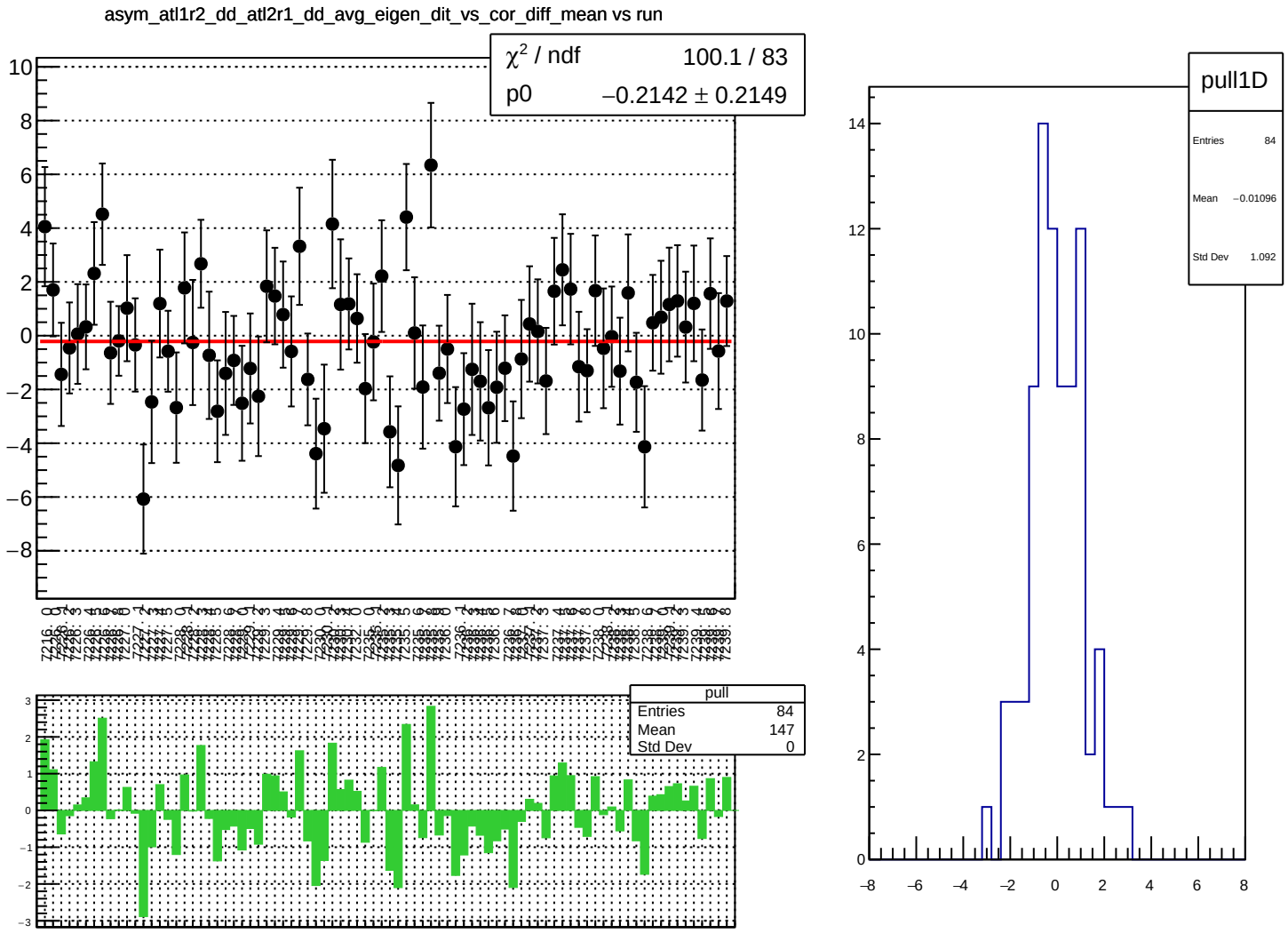

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.1 / 83
p0 −0.2142 ± 0.2149
pull
Entries 84
Mean 147
Std Dev 0
pull1D
Entries 84
Mean −0.01096
Std Dev 1.092

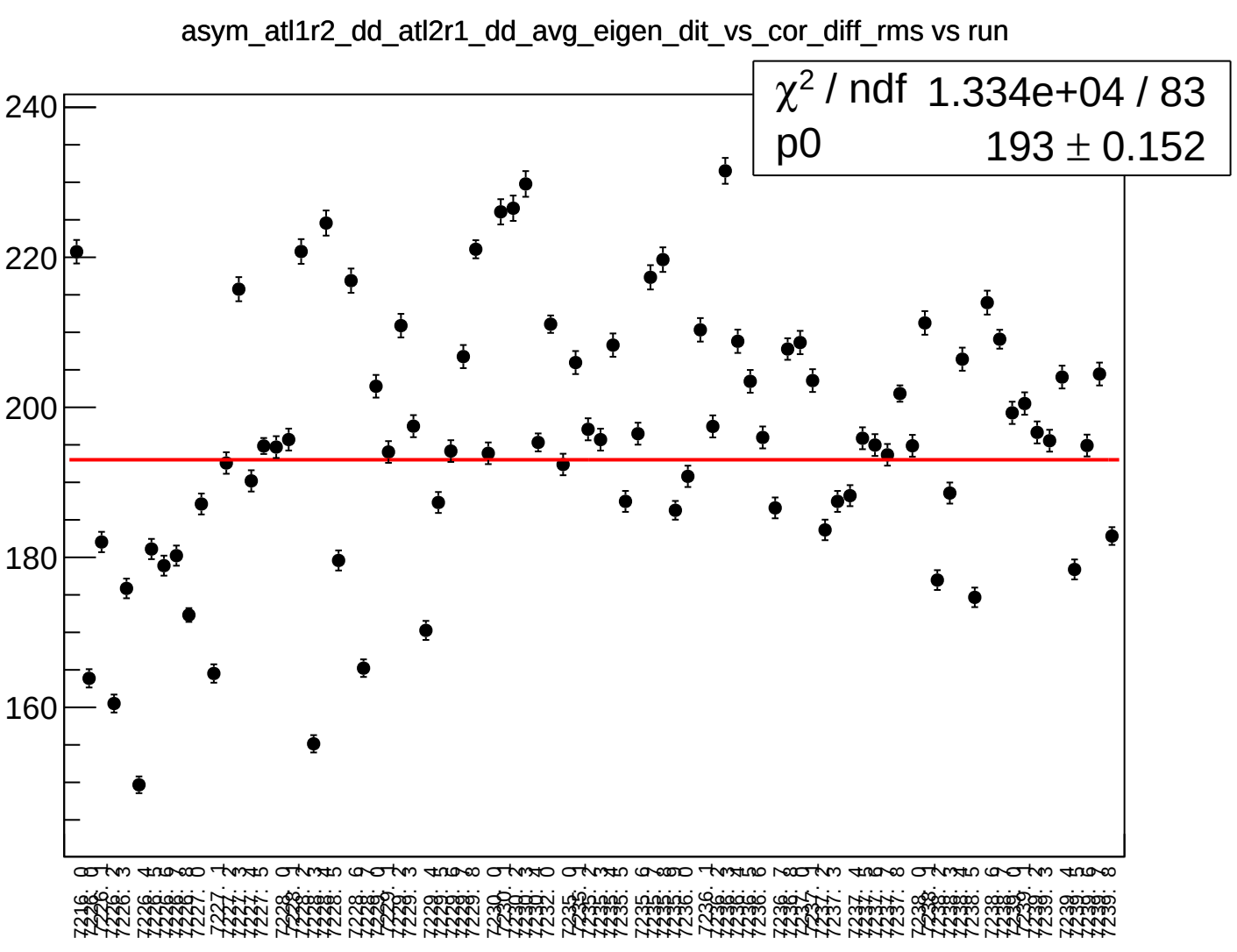

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.333e+04 / 83
p0 193 ± 0.152
240
220
200
180
160

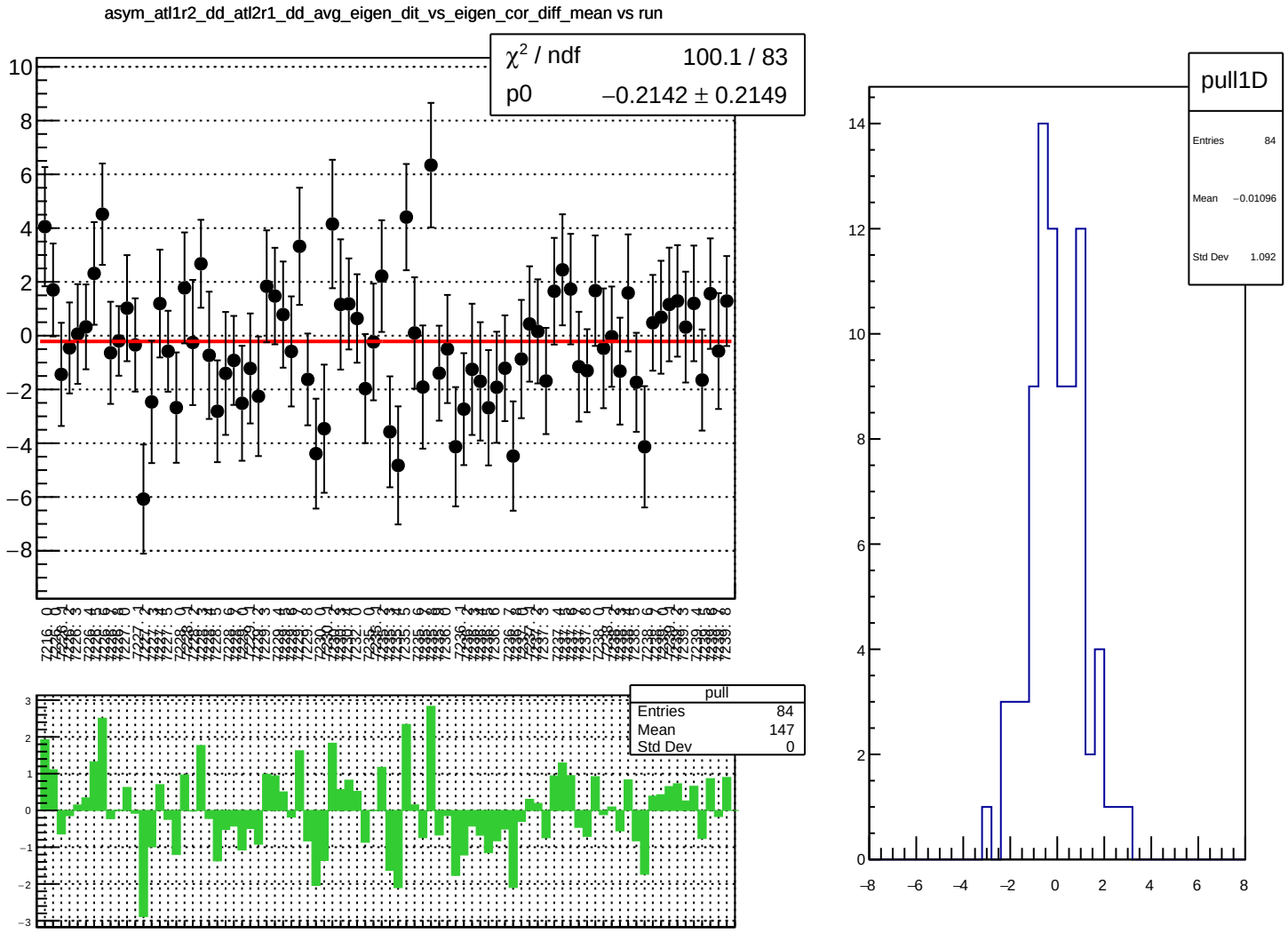

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103.3 / 83
p0 4.046e−06 ± 4.586e−06
pull
Entries 84
Mean 38.16
Std Dev 70.25

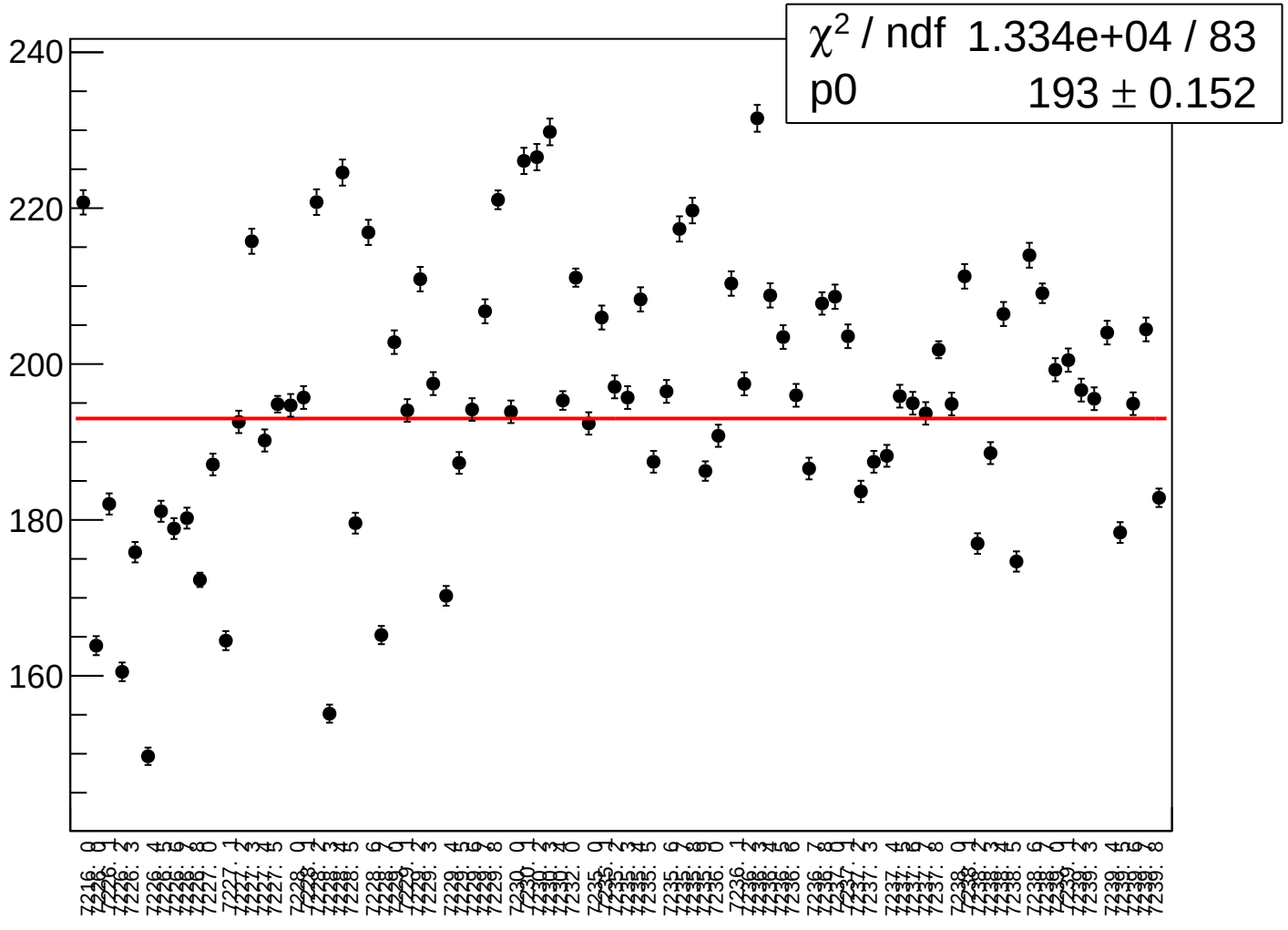

pull1D
Entries 84
Mean −0.02195
Std Dev 1.109

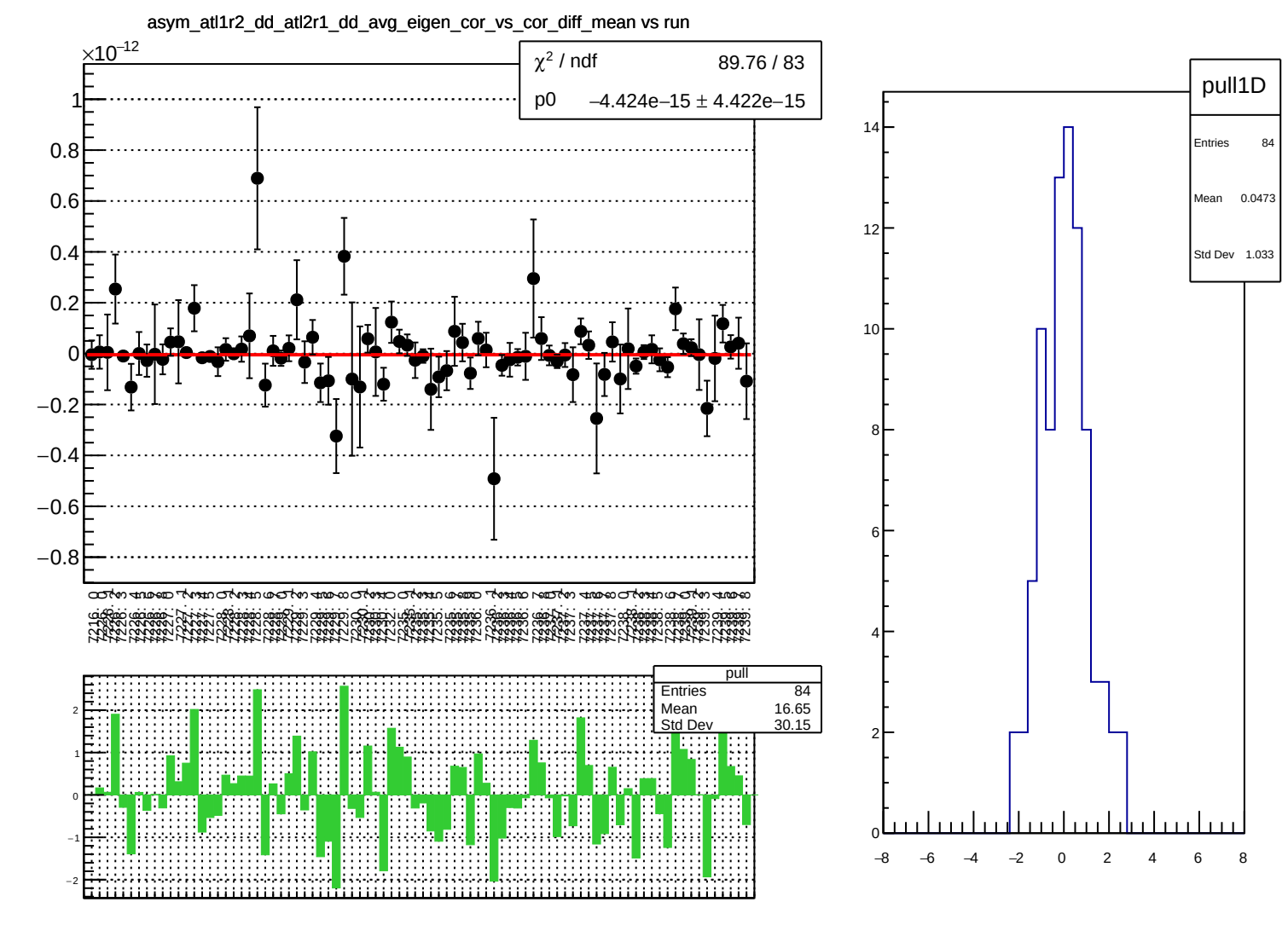

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.064e+05 / 83
p0 0.003726 ± 3.243e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

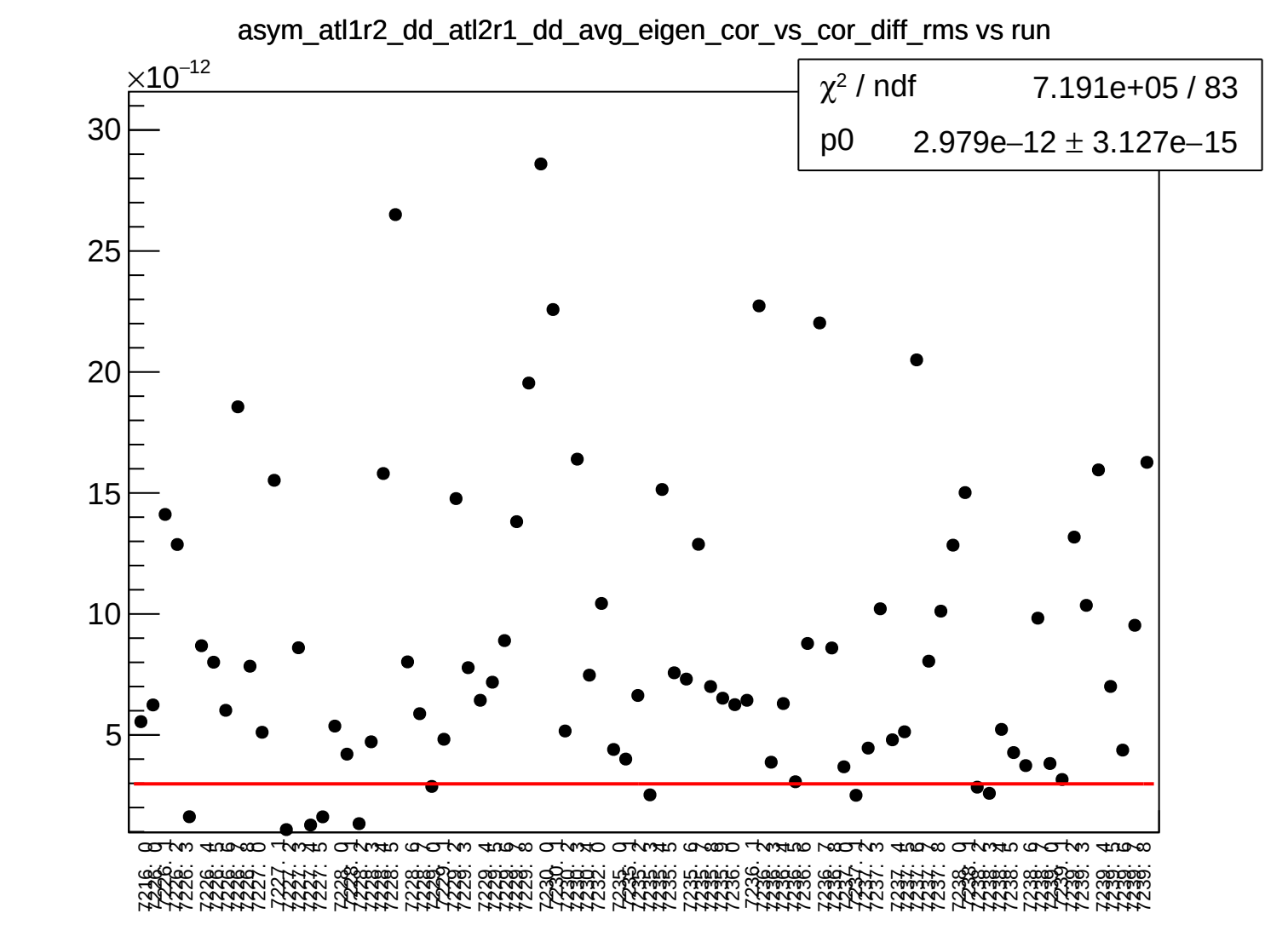

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.1 / 83
p0 −0.2142 ± 0.2149
pull
Entries 84
Mean 147
Std Dev 0
pull1D
Entries 84
Mean −0.01096
Std Dev 1.092

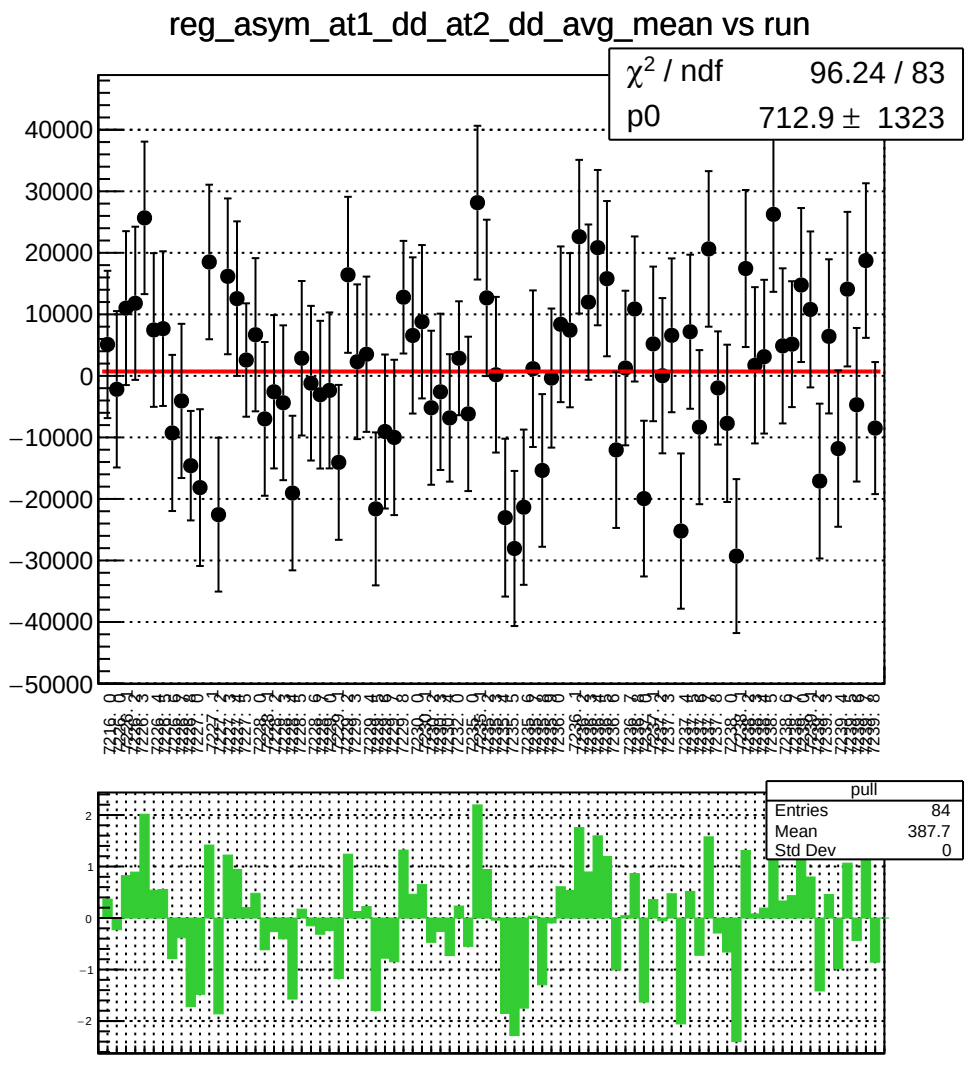

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.334e+04 / 83
p0 193 ± 0.152
240
220
200
180
160

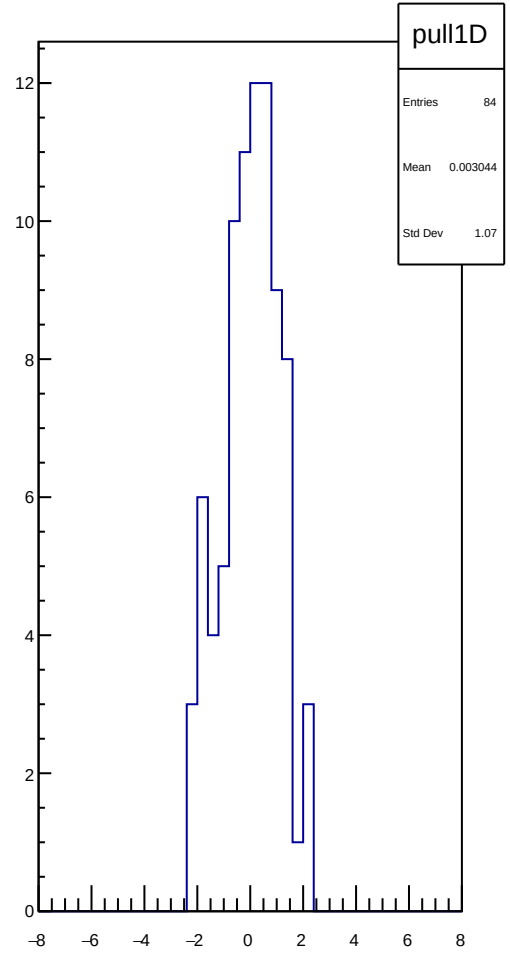

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.1 / 83
p0 −0.2142 ± 0.2149
pull
Entries 84
Mean 147
Std Dev 0
pull1D
Entries 84
Mean −0.01096
Std Dev 1.092

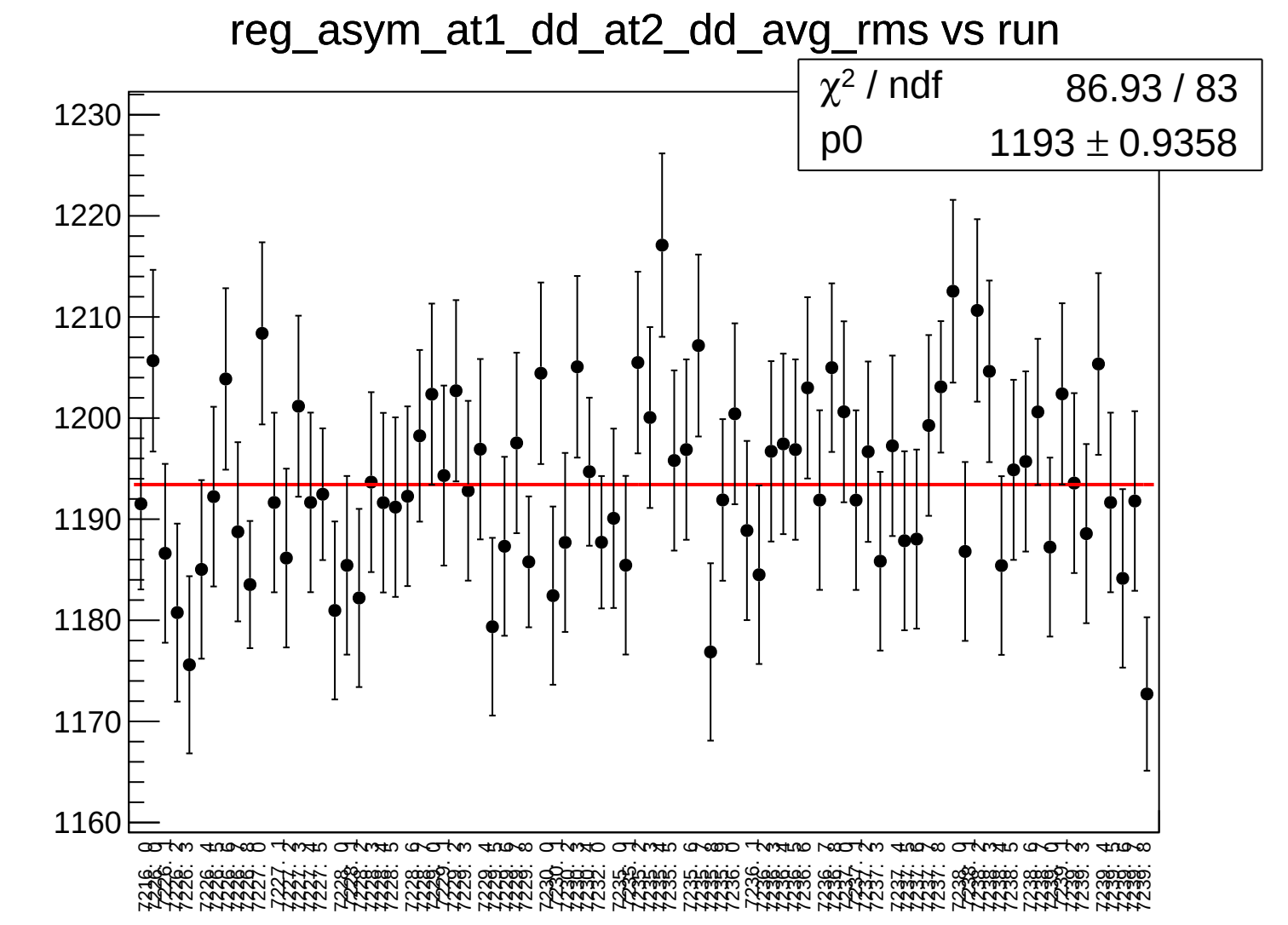

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.334e+04 / 83
p0 193 ± 0.152
240
220
200
180
160

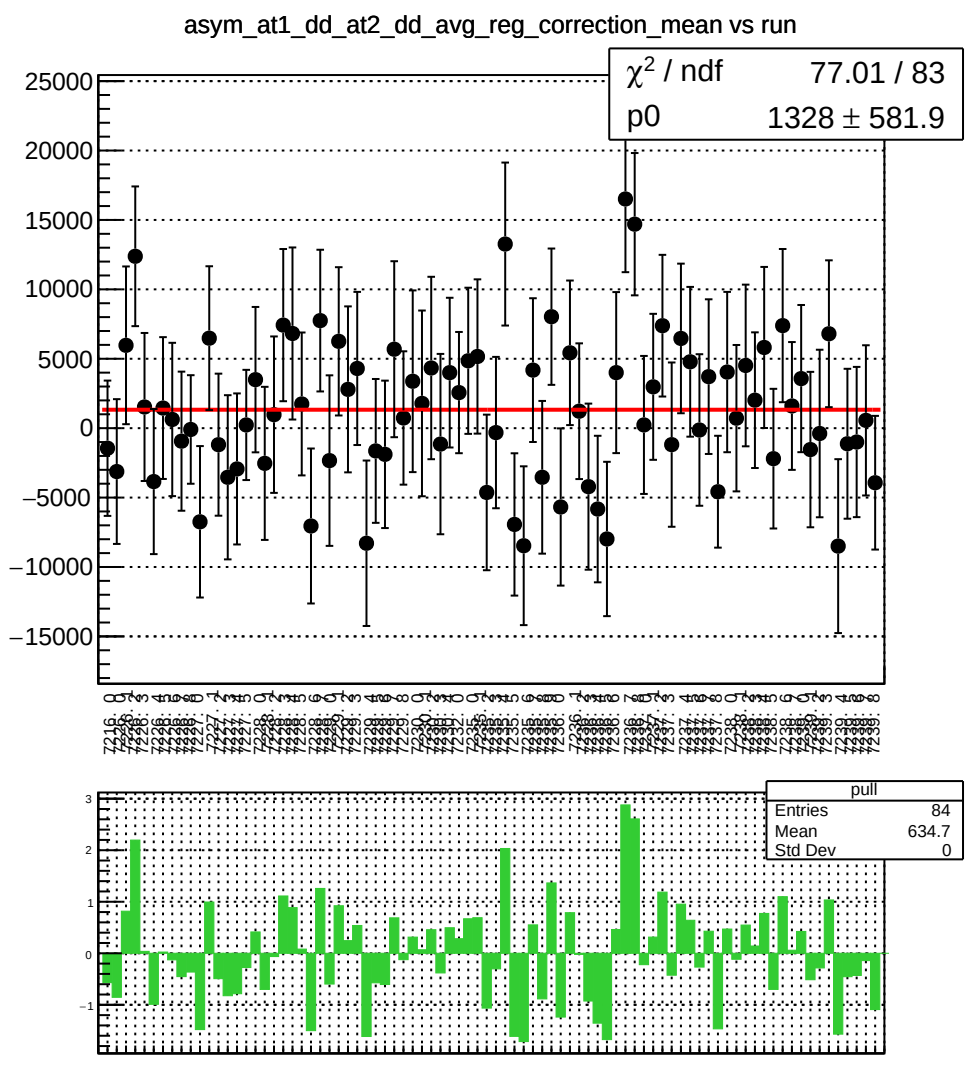

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.76 / 83
p0 −4.424e−15 ± 4.422e−15
pull
Entries 84
Mean 16.65
Std Dev 30.15
pull1D
Entries 84
Mean 0.0473
Std Dev 1.033

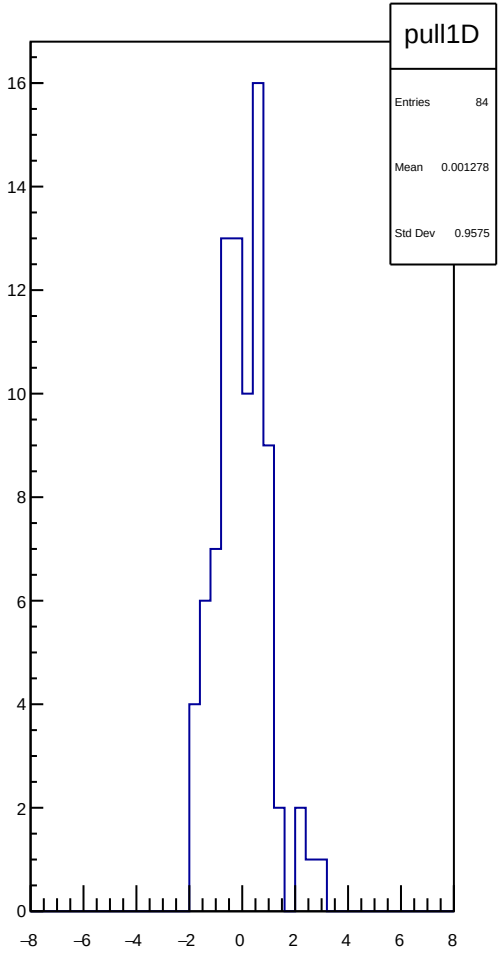

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.191e+05 / 83
p0 2.979e−12 ± 3.127e−15
30
25
20
15
10
5

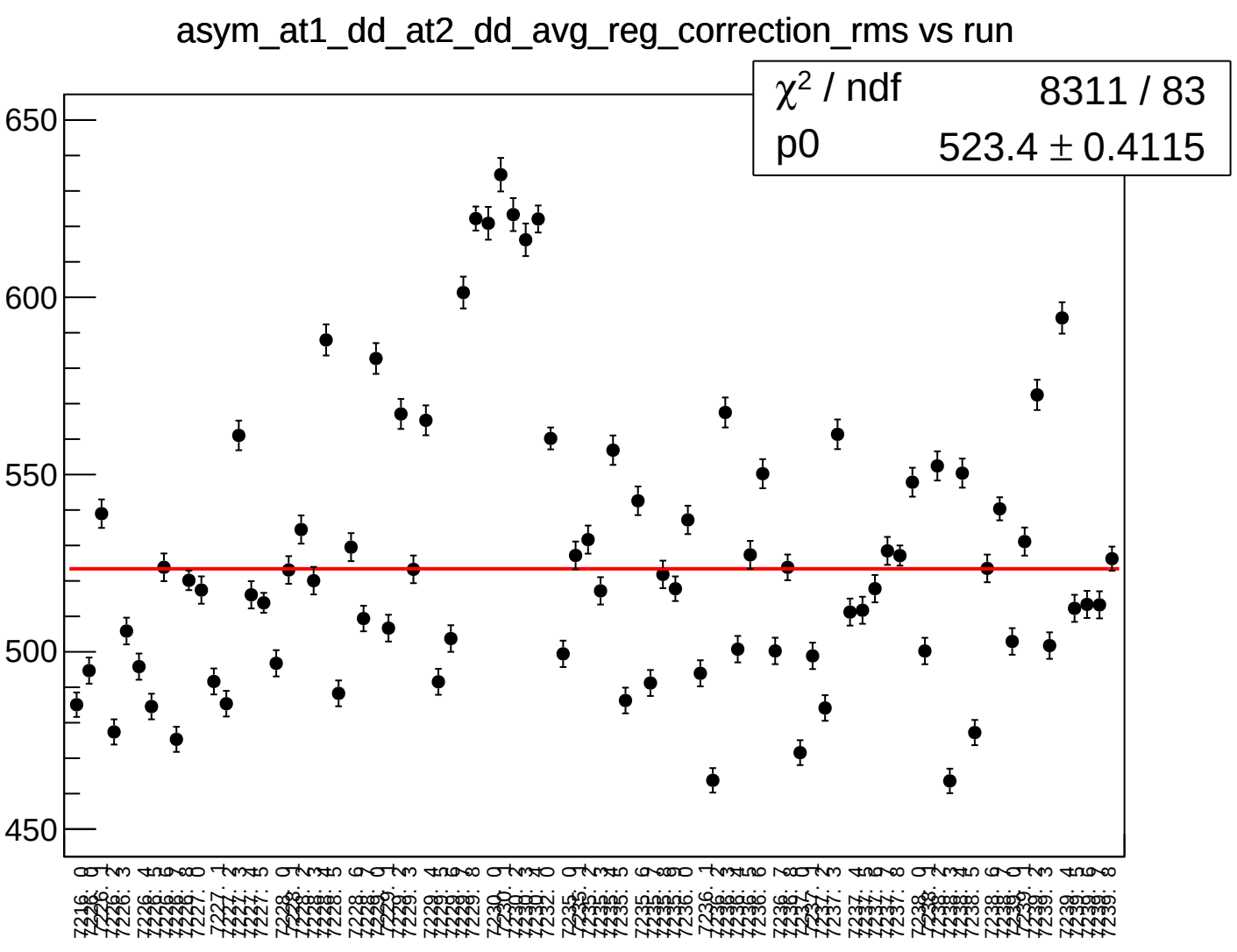

reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 96.24 / 83
p0 712.9 ± 1323
pull
Entries 84
Mean 387.7
Std Dev 0

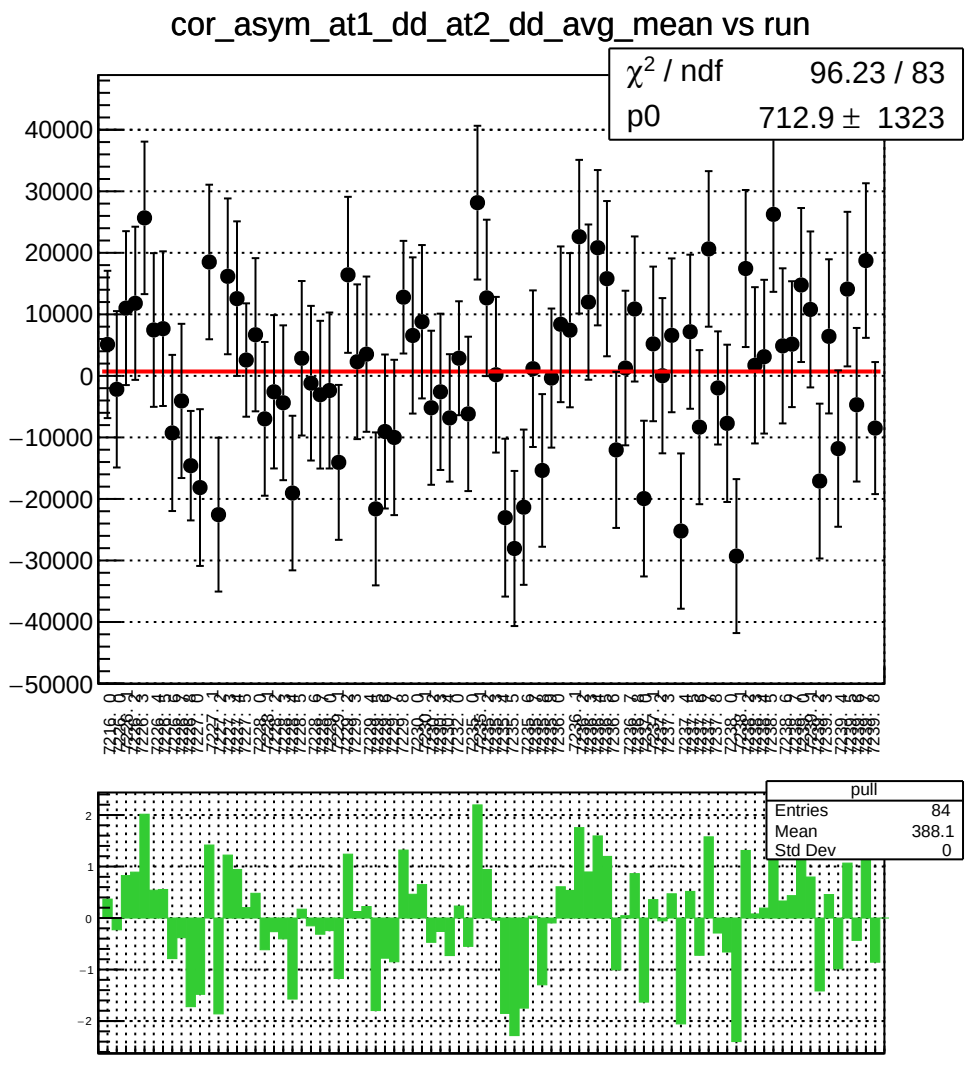

pull1D
Entries 84
Mean 0.003044
Std Dev 1.07

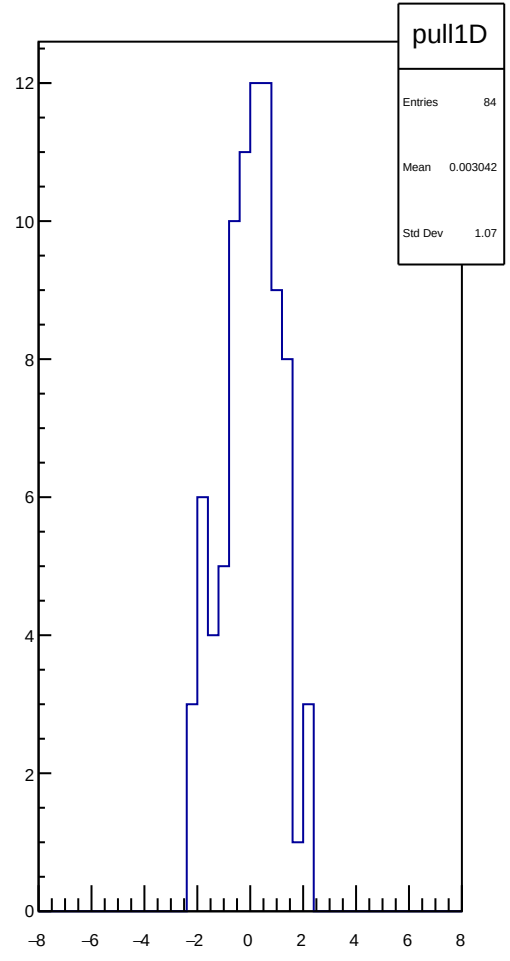

reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 86.93 / 83
p0 1193 ± 0.9358
1230
1220
1210
1200
1190
1180
1170
1160

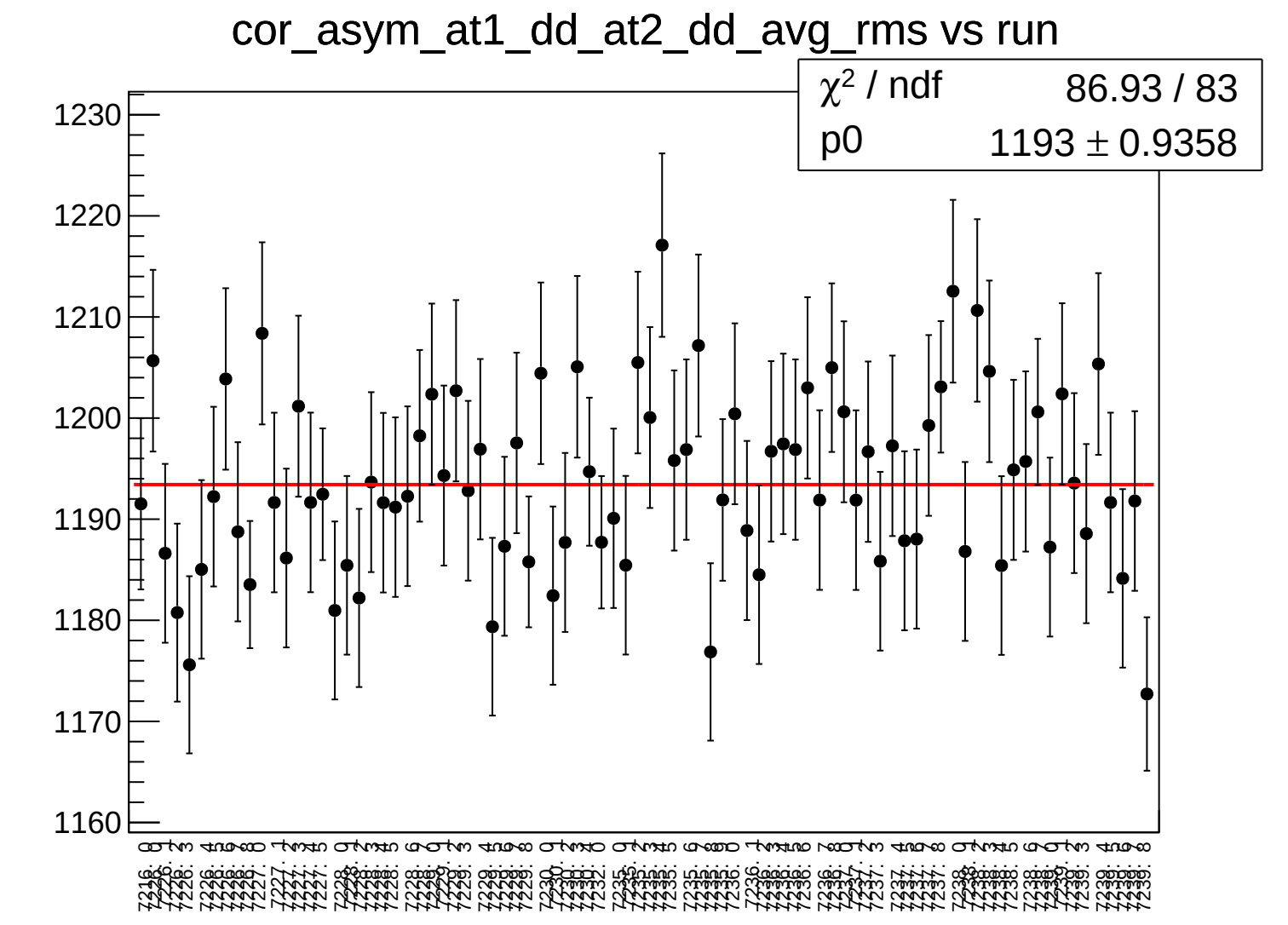

asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 77.01 / 83
p0 1328 ± 581.9
pull
Entries 84
Mean 634.7
Std Dev 0

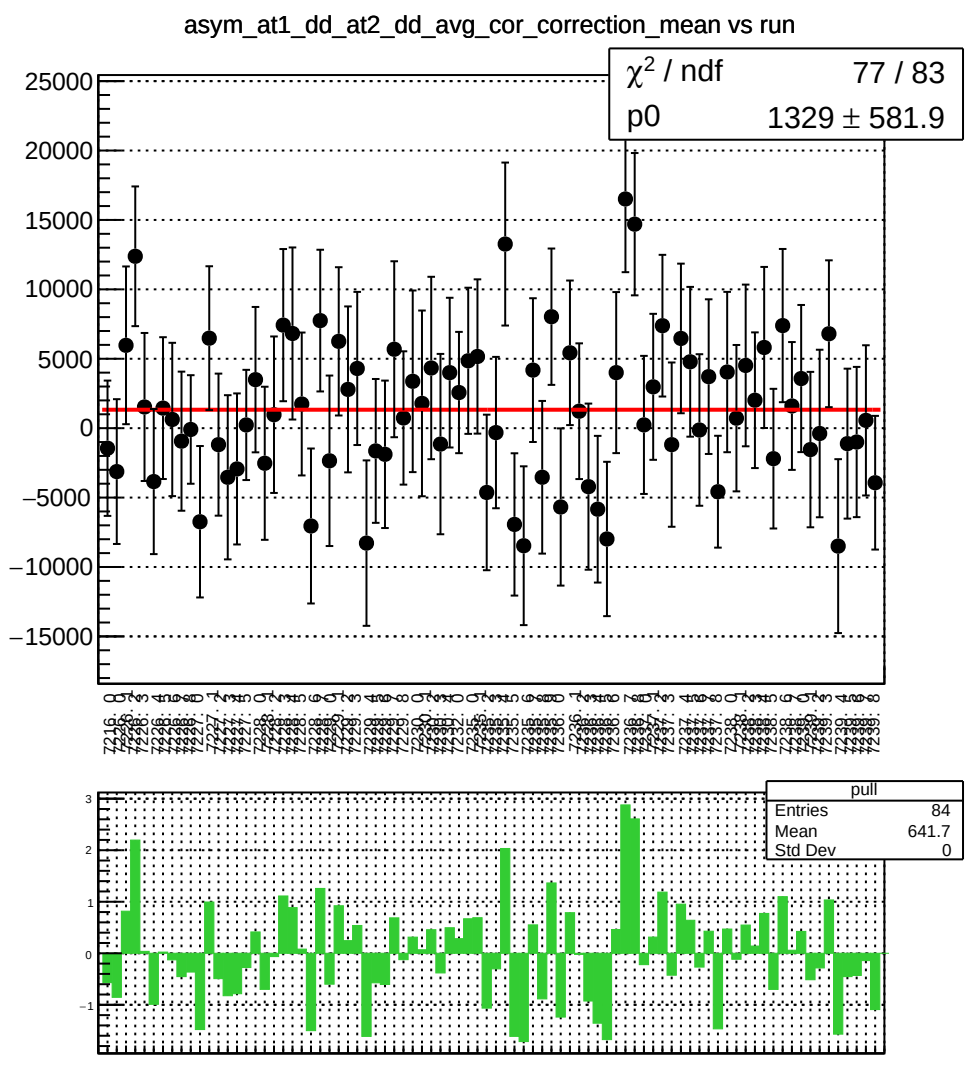

pull1D
Entries 84
Mean 0.001278
Std Dev 0.9575

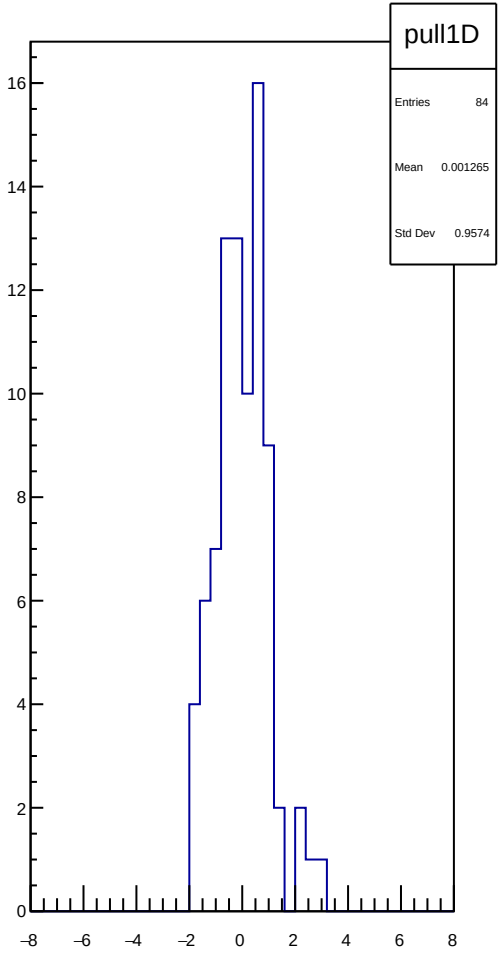

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 8311 / 83
p0 523.4 ± 0.4115
650
600
550
500
450

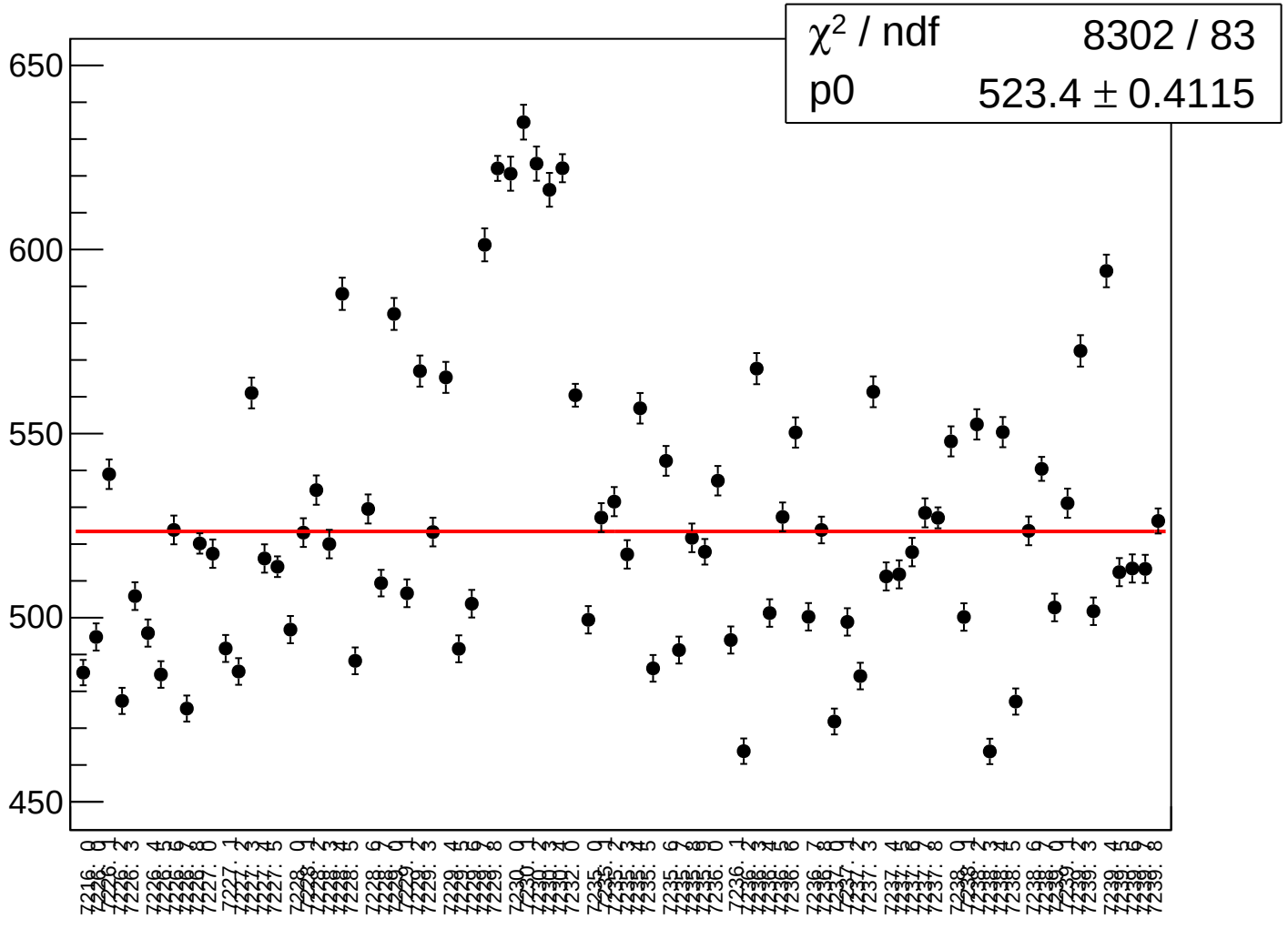

cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 96.23 / 83
p0 712.9 ± 1323
pull
Entries 84
Mean 388.1
Std Dev 0

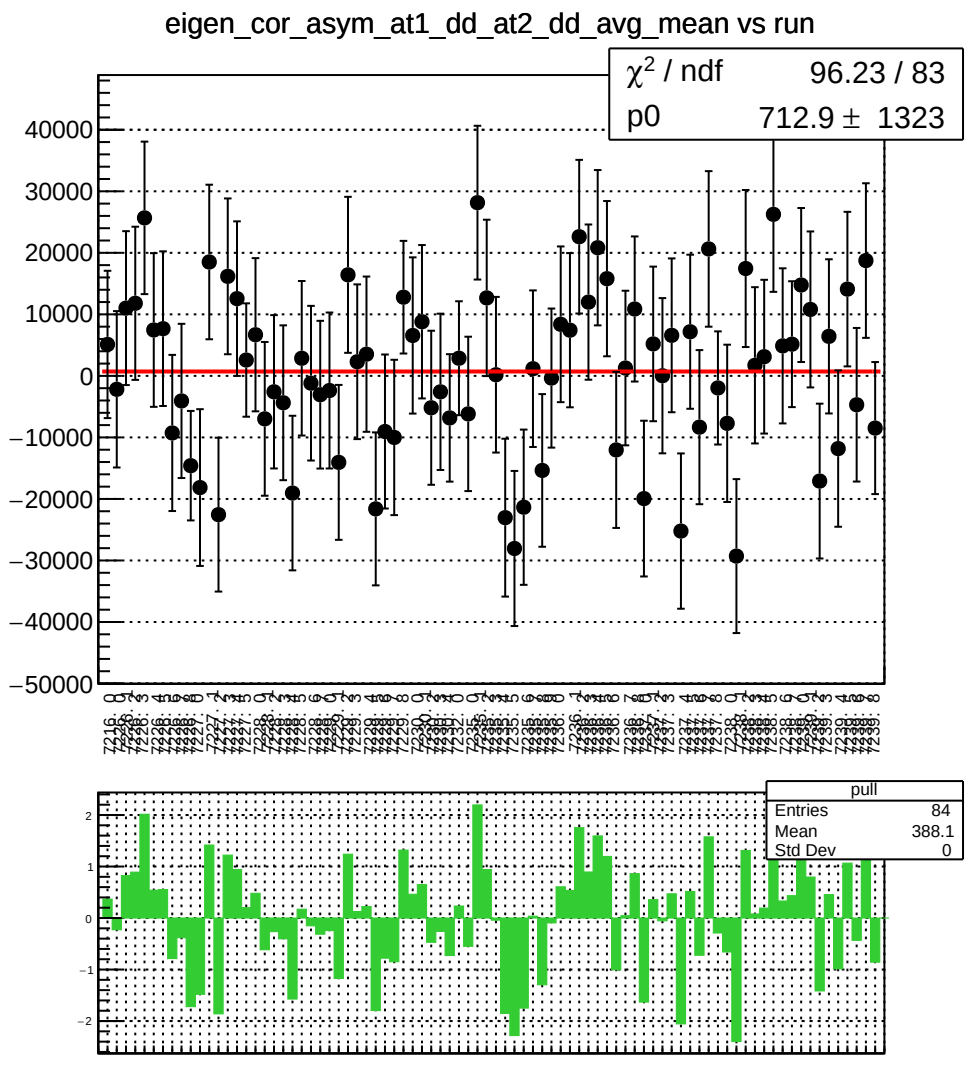

pull1D
Entries 84
Mean 0.003042
Std Dev 1.07

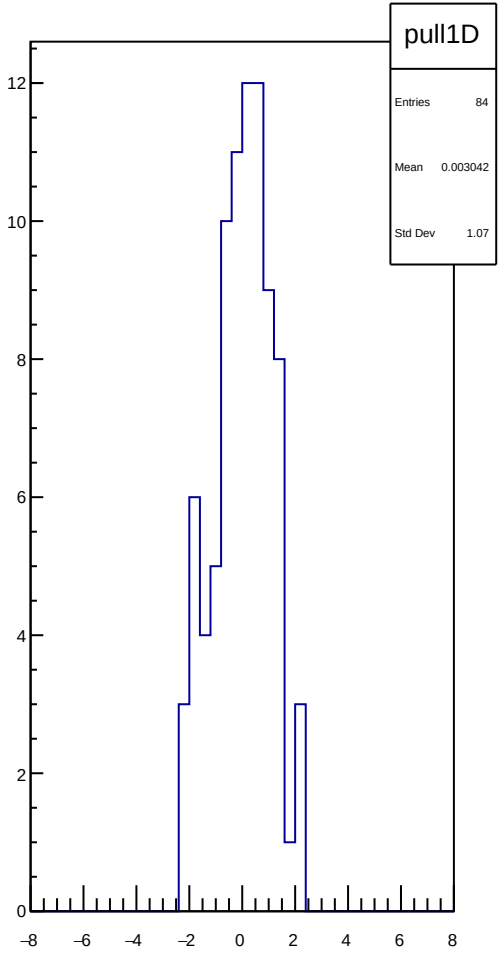

cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 86.93 / 83
p0 1193 ± 0.9358
1230
1220
1210
1200
1190
1180
1170
1160

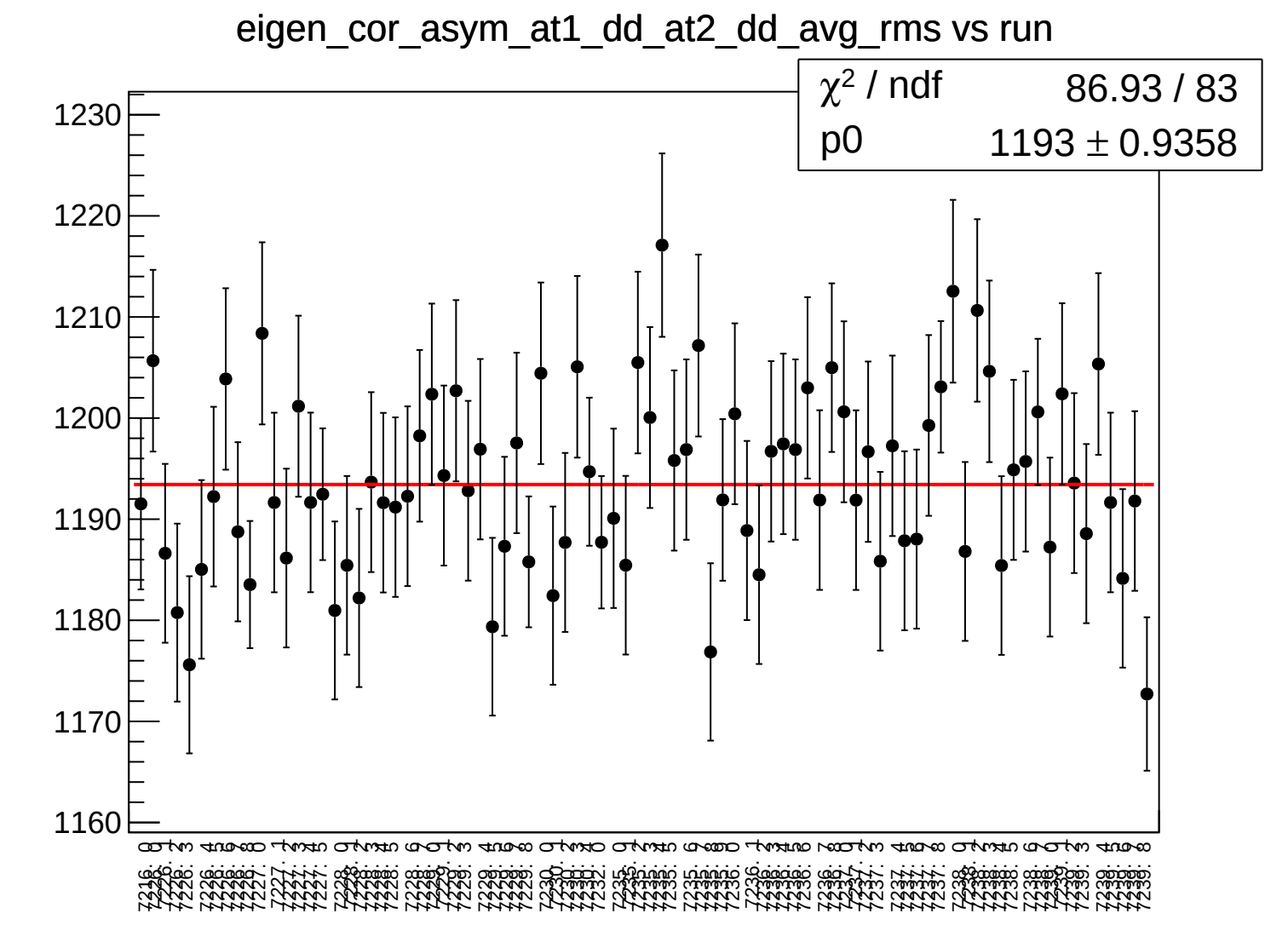

asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 77 / 83
p0 1329 ± 581.9
pull
Entries 84
Mean 641.7
Std Dev 0

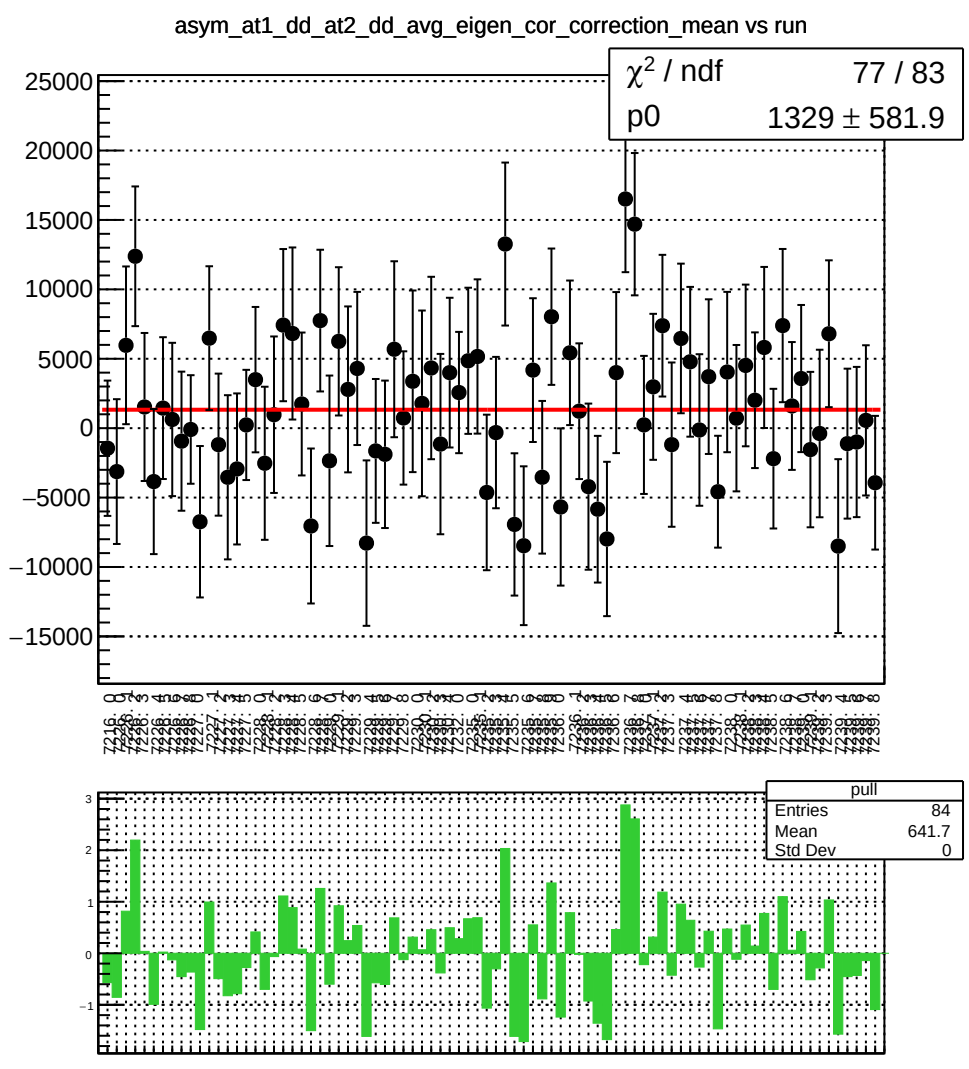

pull1D
Entries 84
Mean 0.001265
Std Dev 0.9574

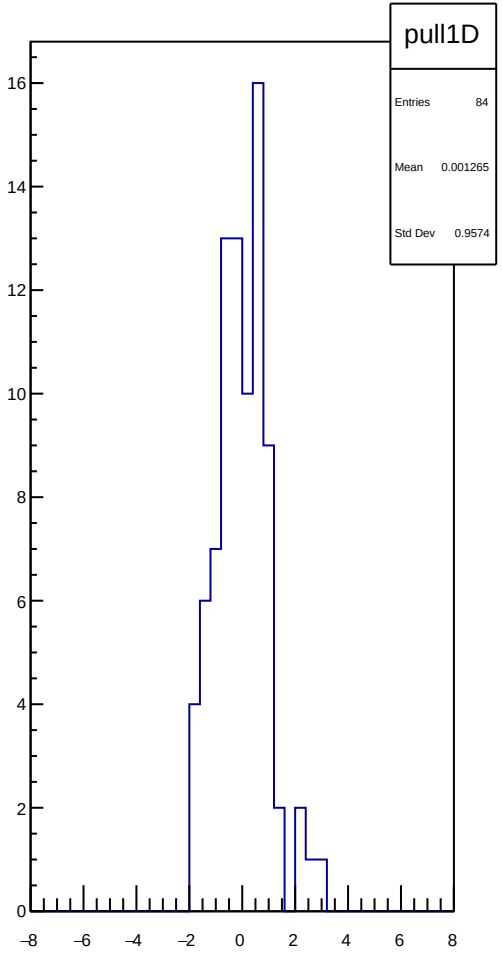

asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 8302 / 83
p0 523.4 ± 0.4115
650
600
550
500
450

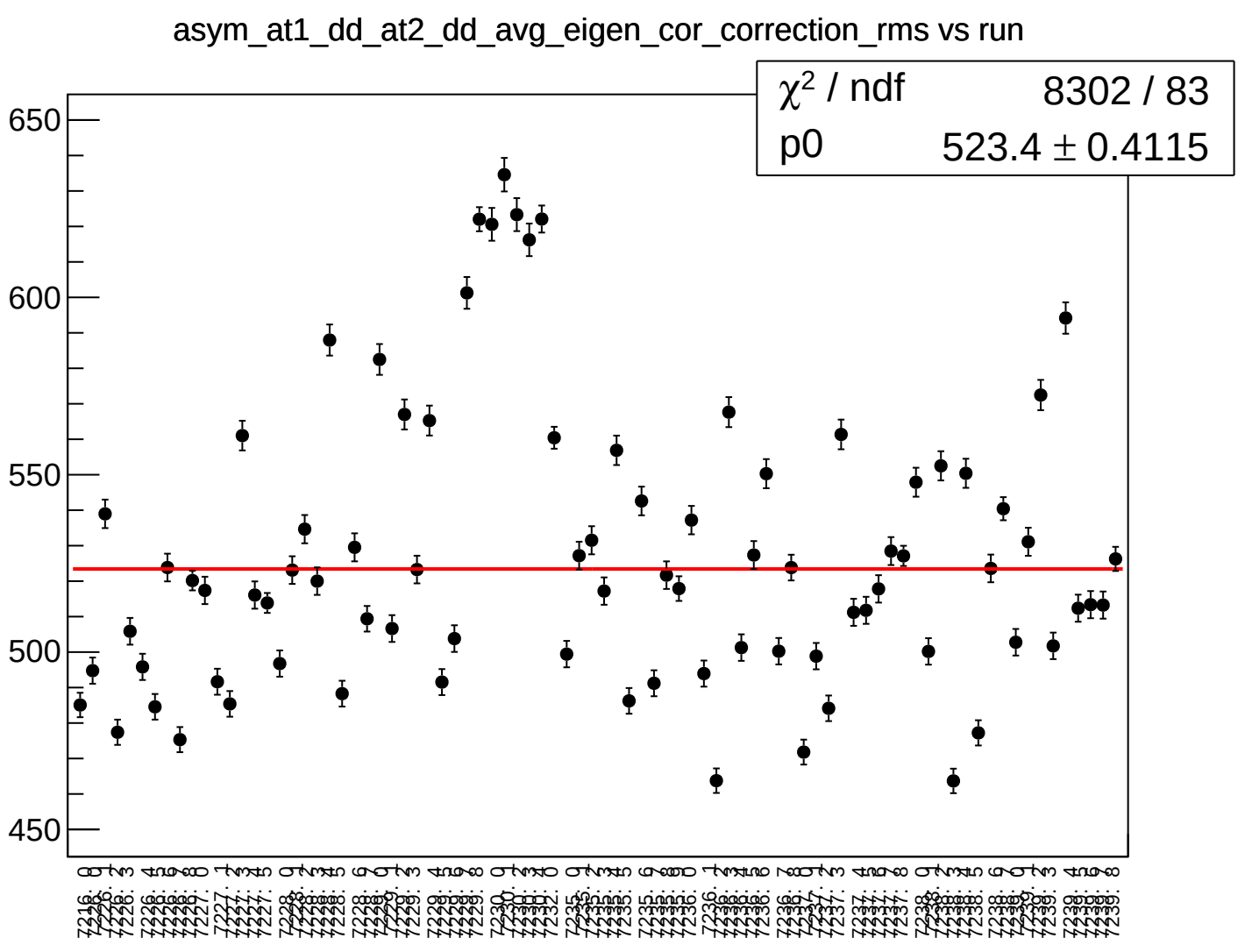

eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 96.23 / 83
p0 712.9 ± 1323
pull
Entries 84
Mean 388.1
Std Dev 0

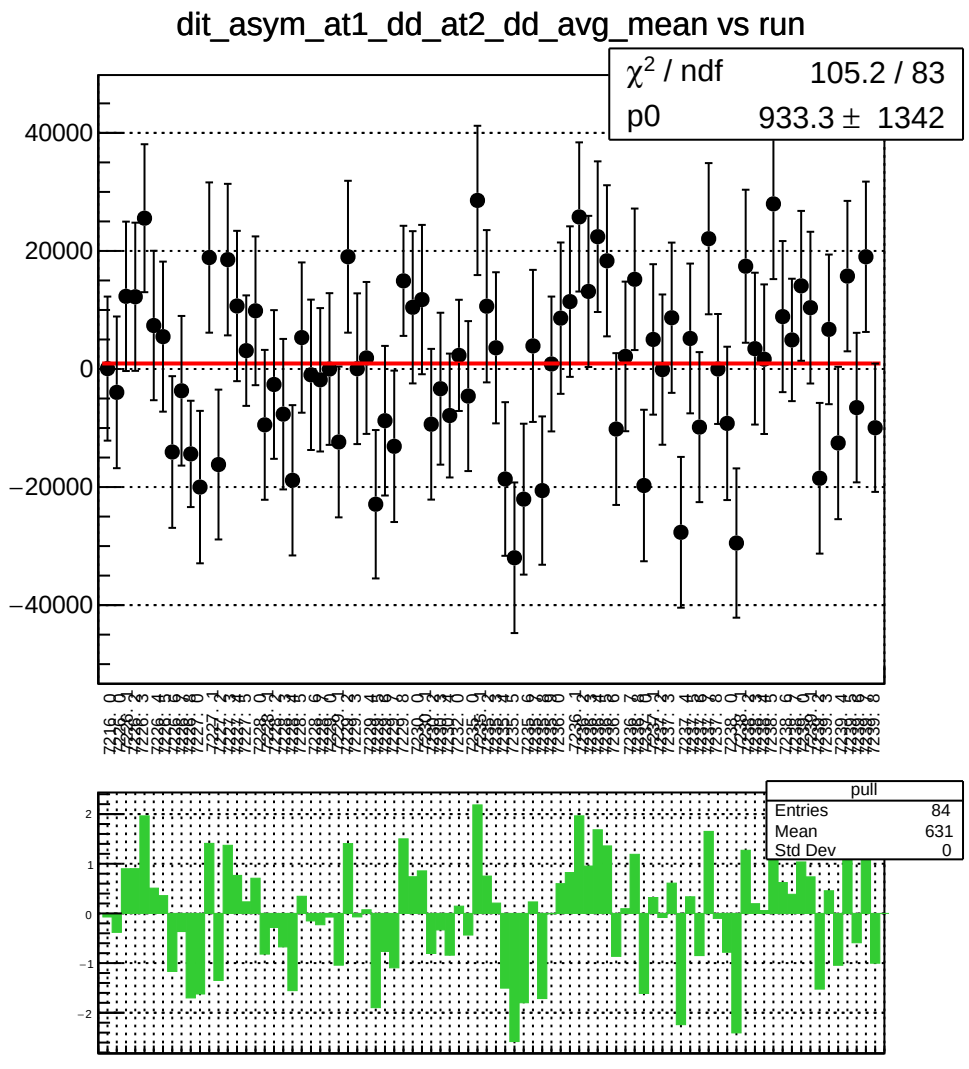

pull1D
Entries 84
Mean 0.003042
Std Dev 1.07

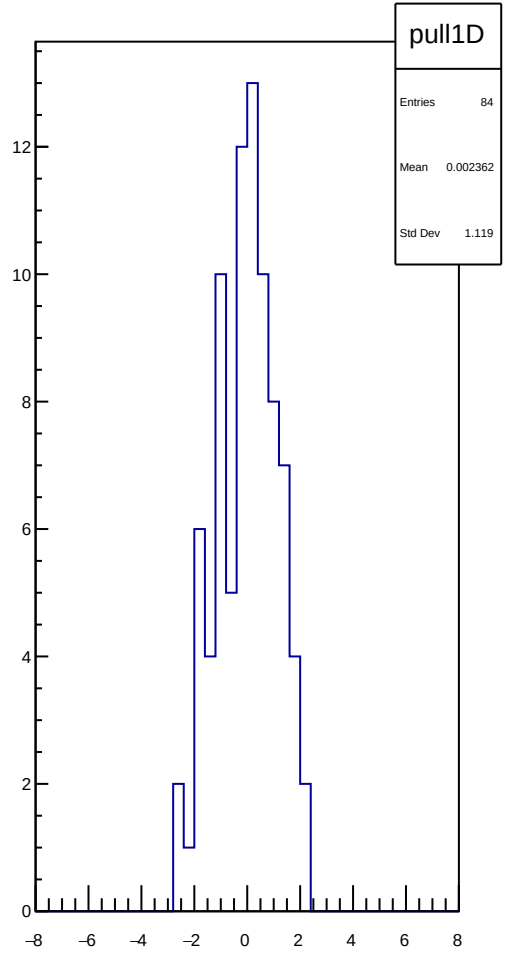

eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 86.93 / 83
p0 1193 ± 0.9358
1230
1220
1210
1200
1190
1180
1170
1160

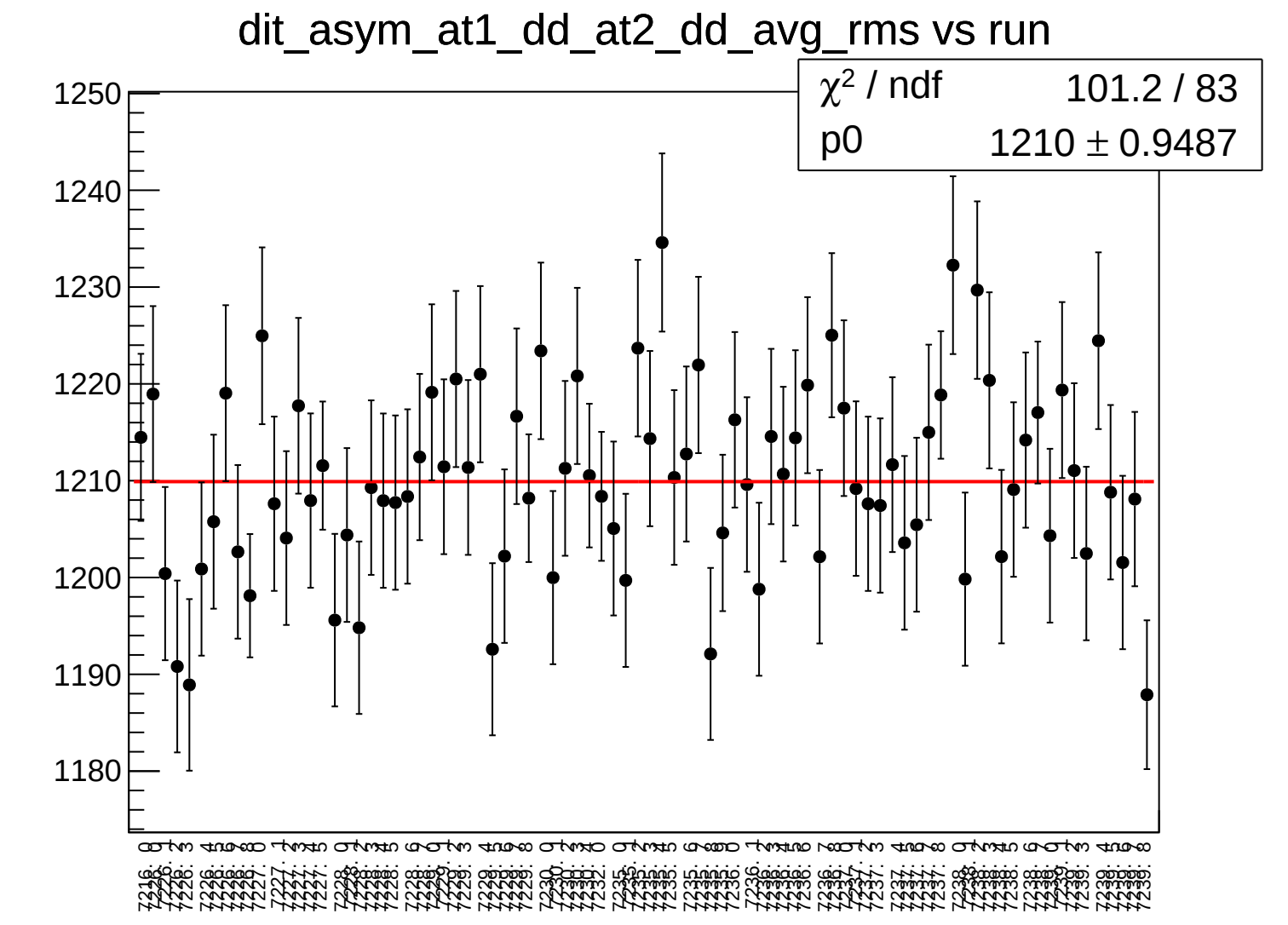

asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 77 / 83
p0 1329 ± 581.9
pull
Entries 84
Mean 641.7
Std Dev 0

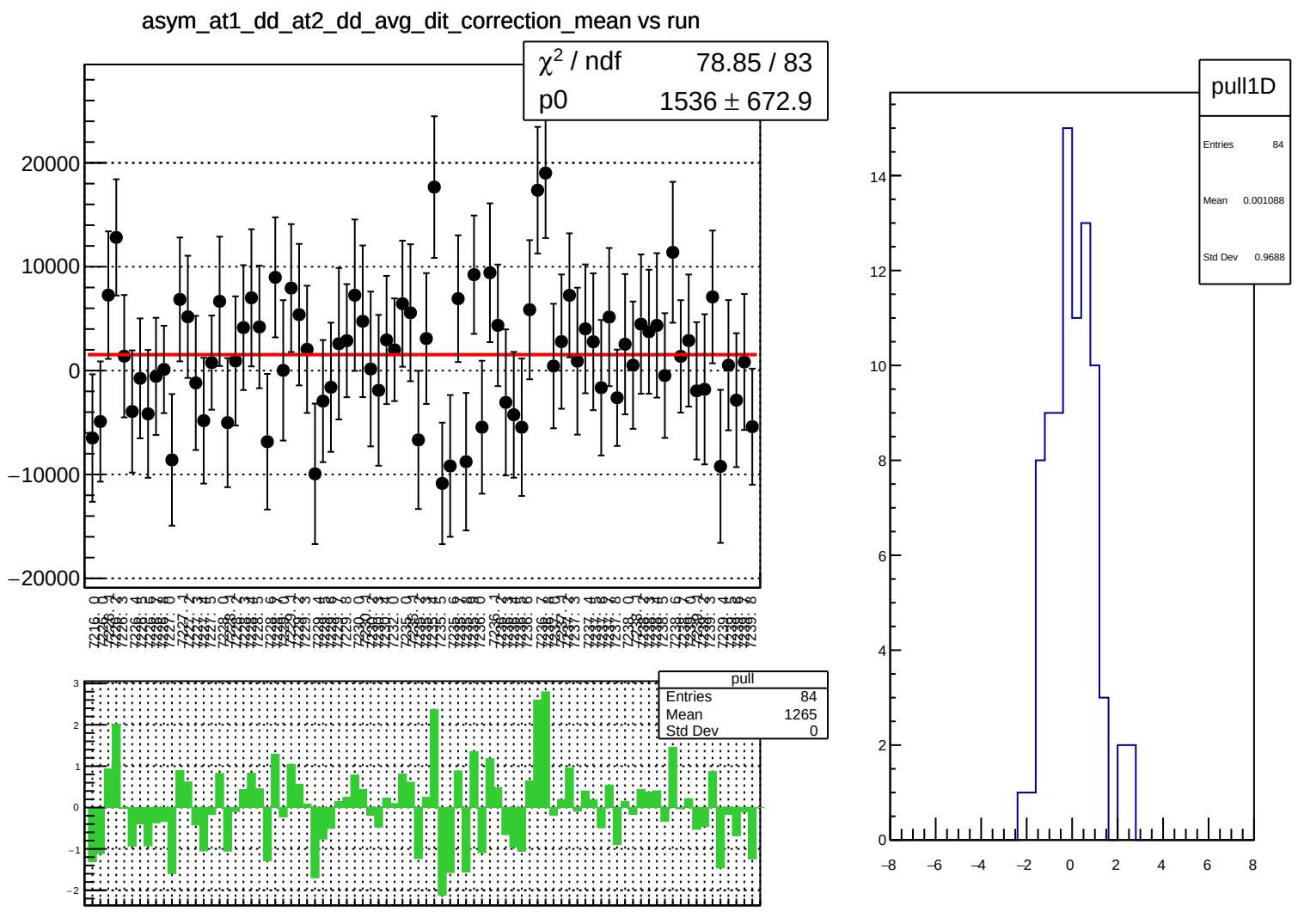

pull1D
Entries 84
Mean 0.001265
Std Dev 0.9574

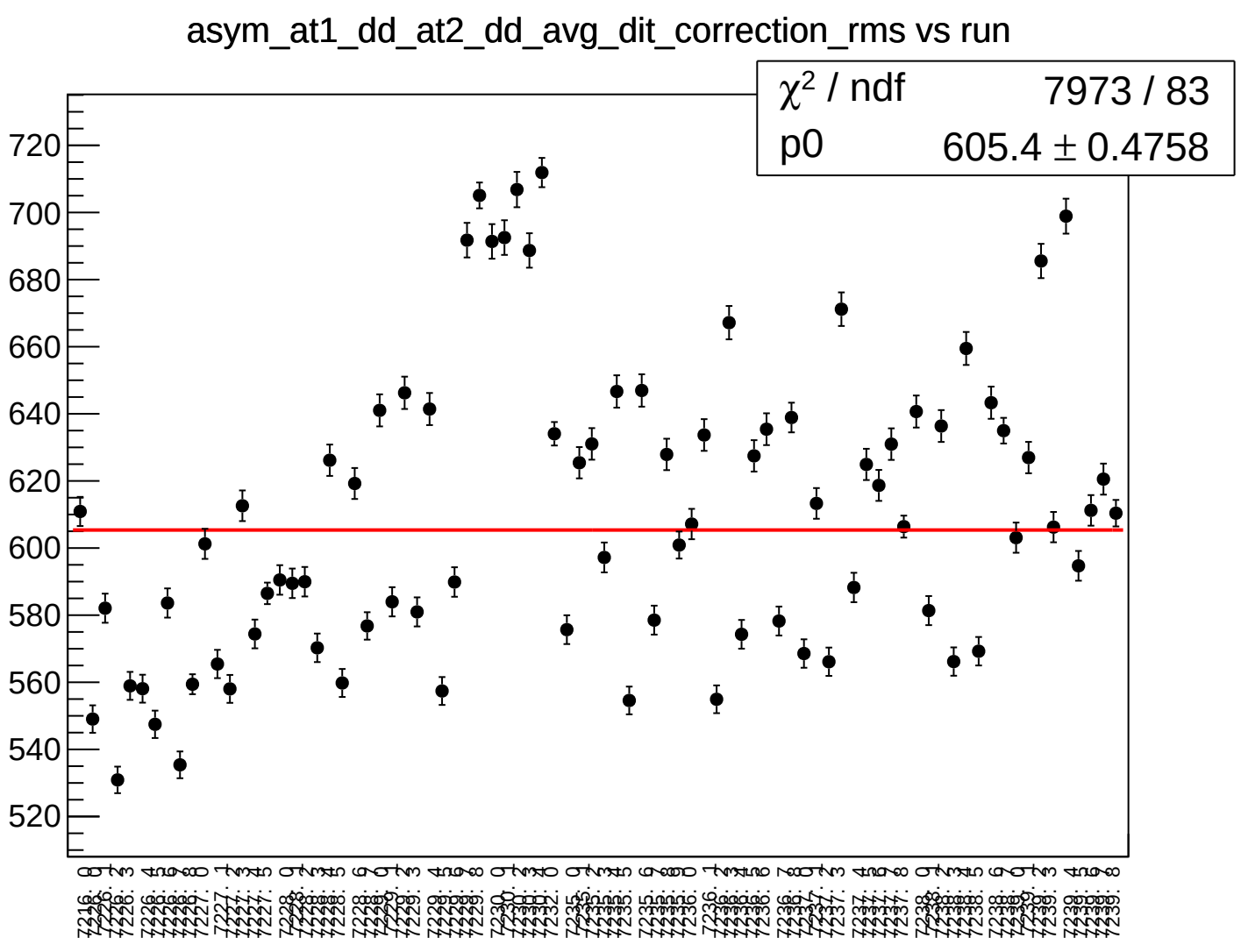

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 8302 / 83
p0 523.4 ± 0.4115
650
600
550
500
450

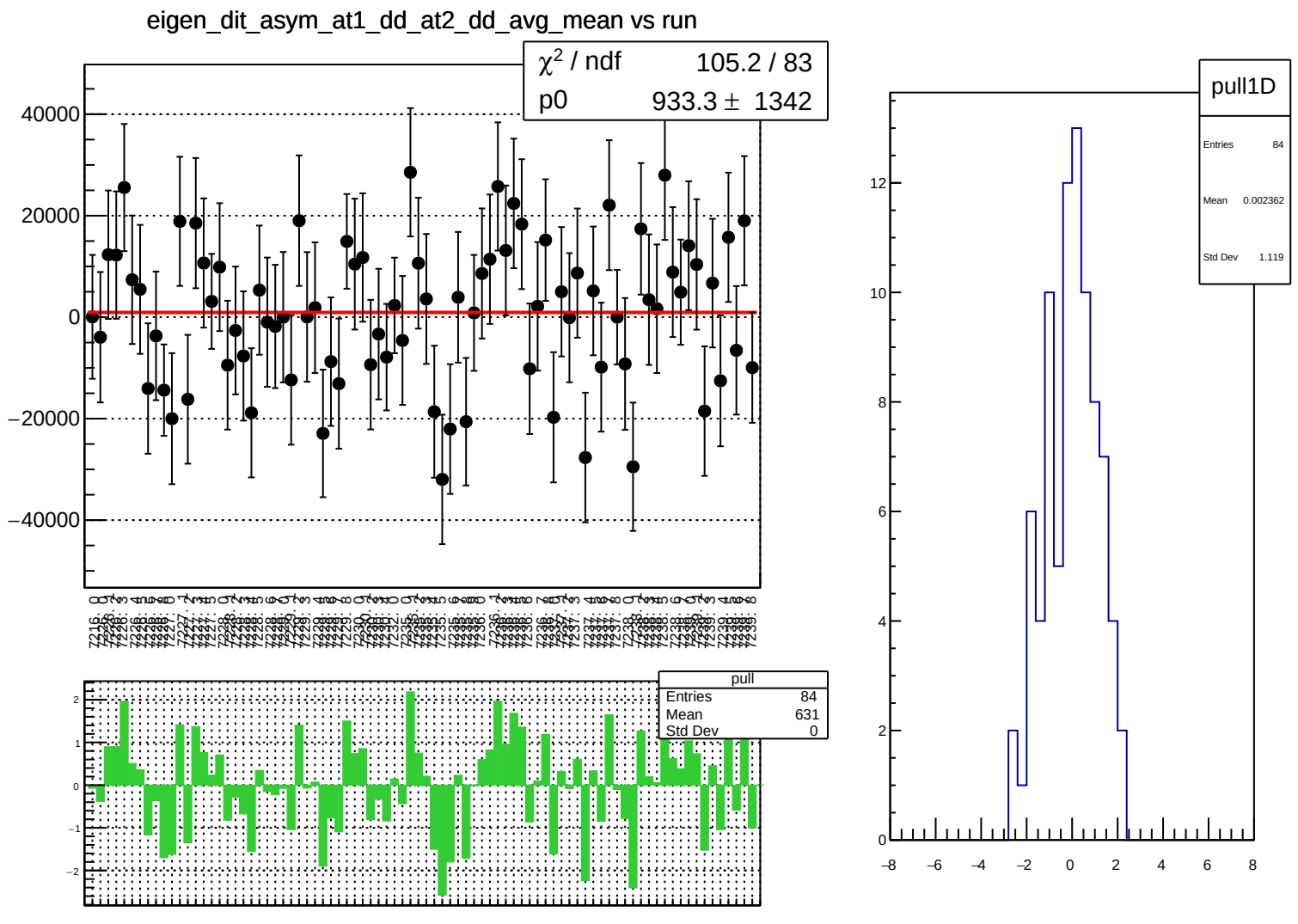

dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 105.2 / 83
p0 933.3 ± 1342
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 631
Std Dev 0
2
1
0
−1
−2

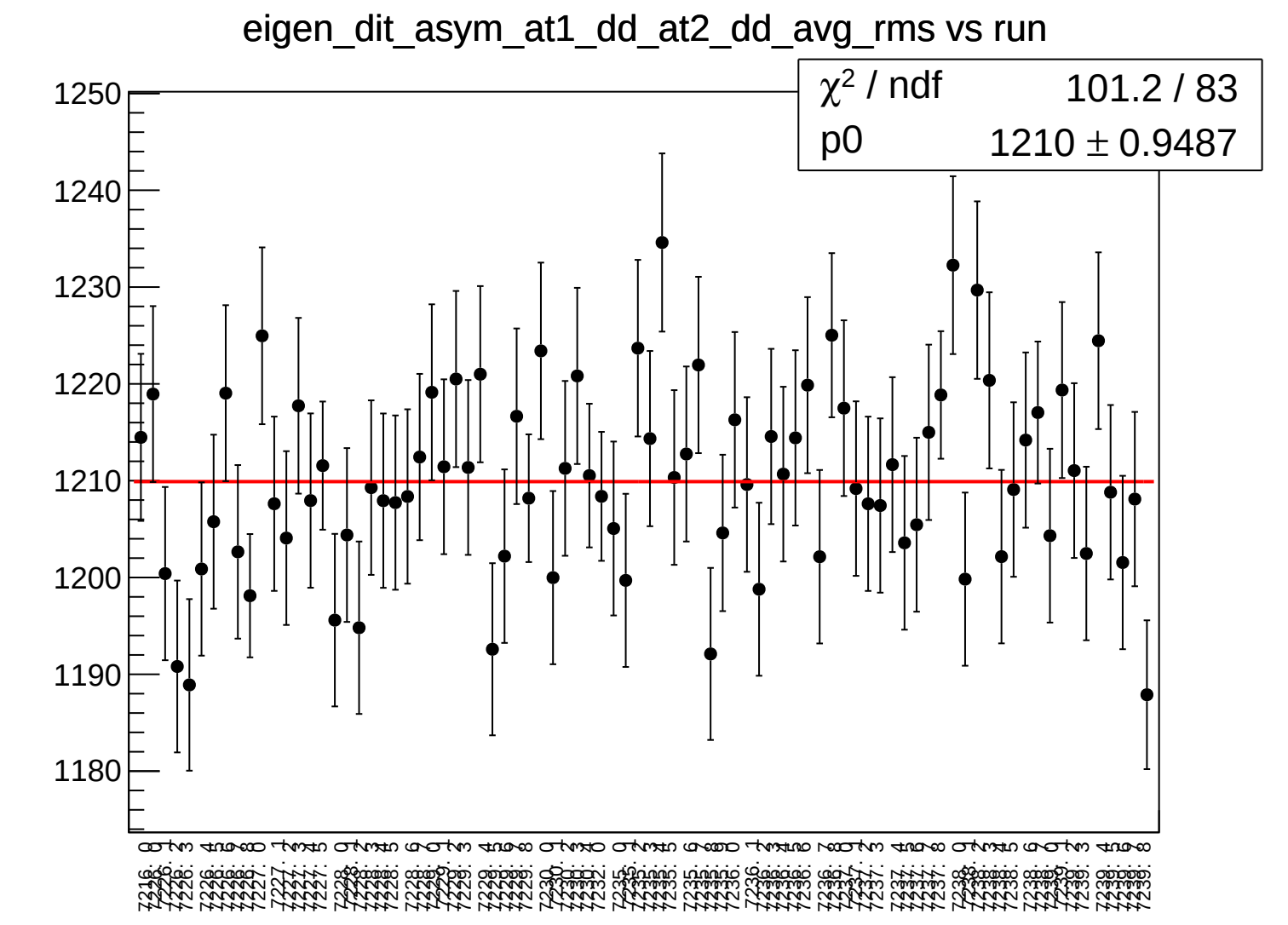

pull1D
Entries 84
Mean 0.002362
Std Dev 1.119
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

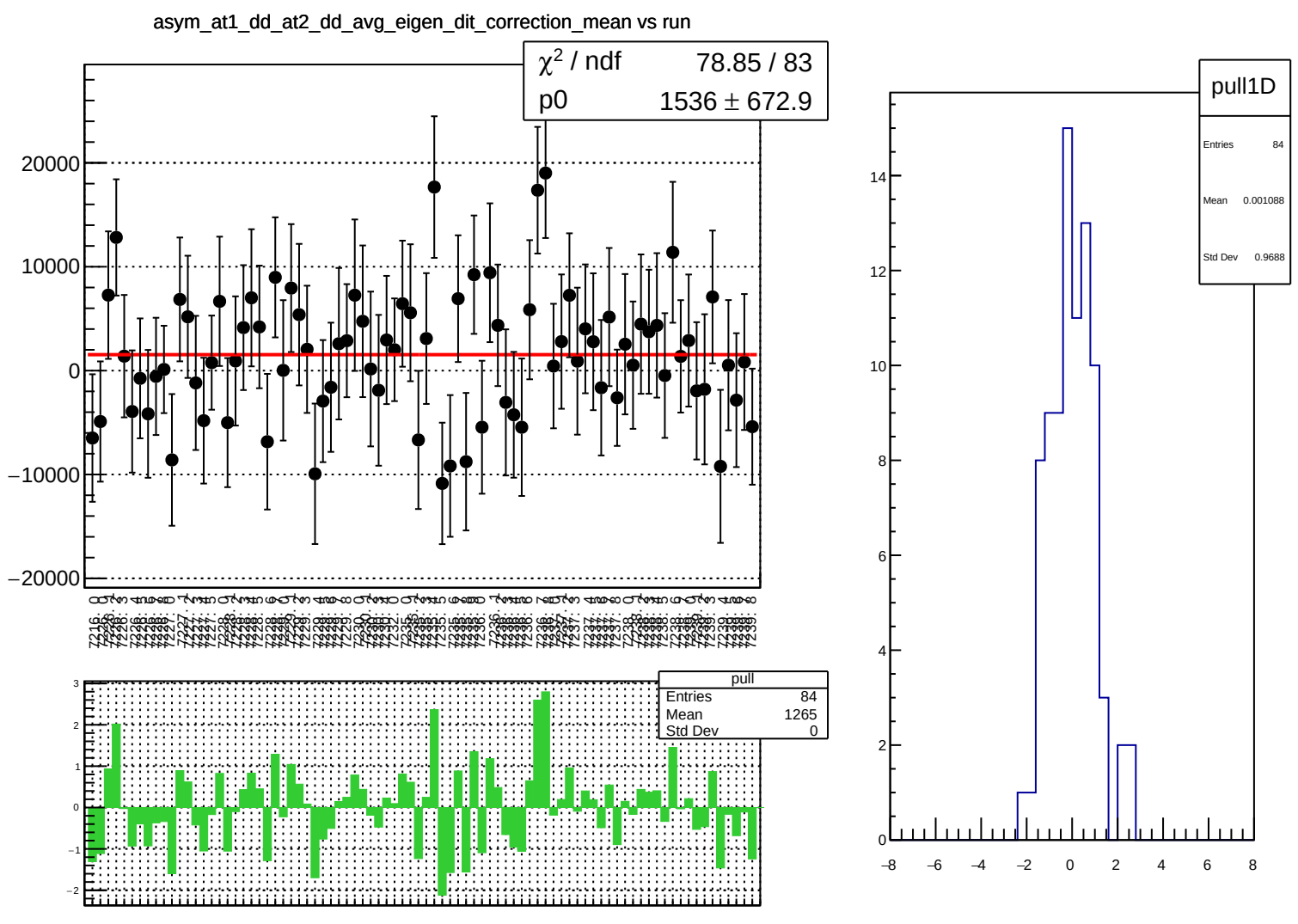

dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 101.2 / 83
p0 1210 ± 0.9487
1250
1240
1230
1220
1210
1200
1190
1180

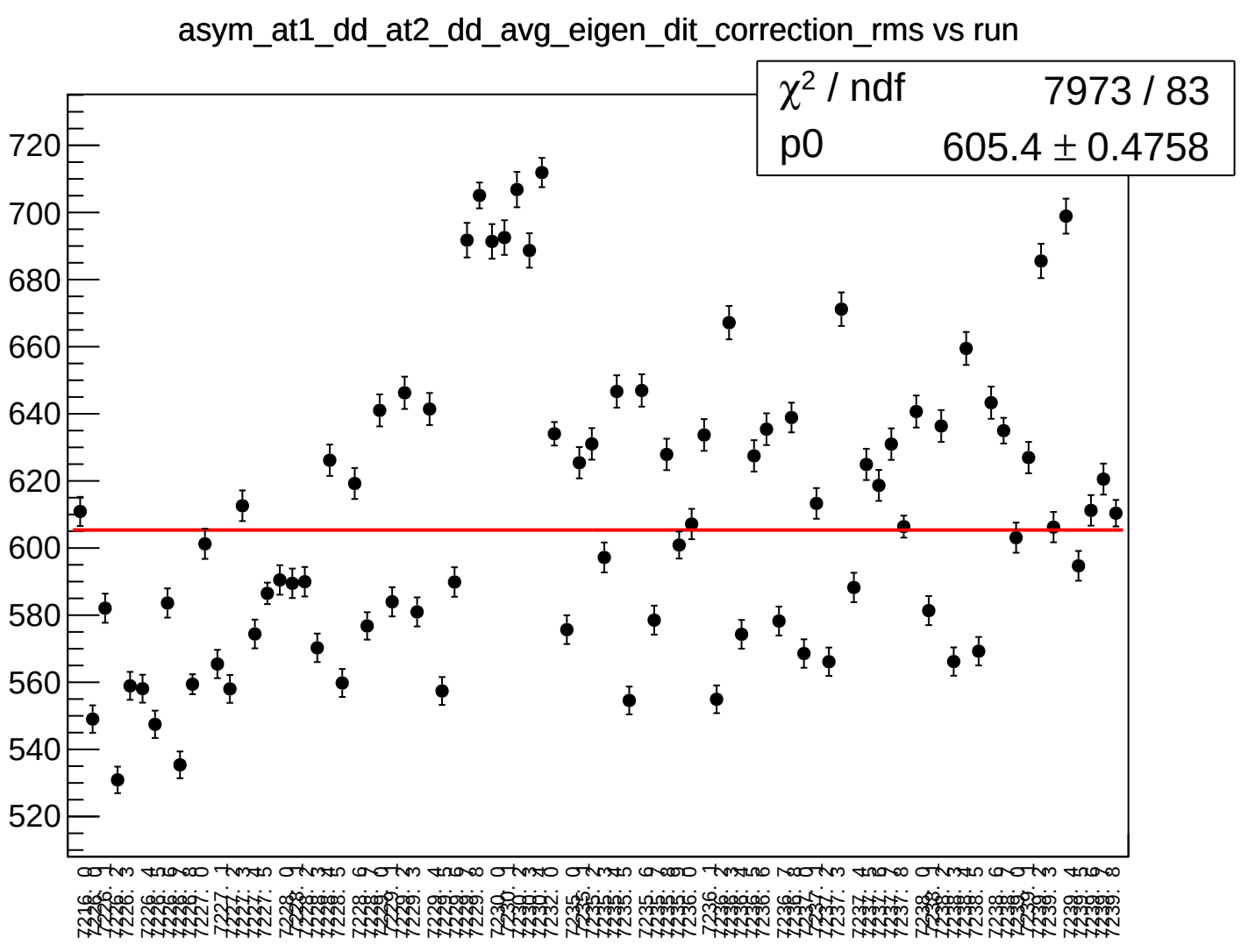

asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 78.85 / 83
p0 1536 ± 672.9
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 1265
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.001088
Std Dev 0.9688
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

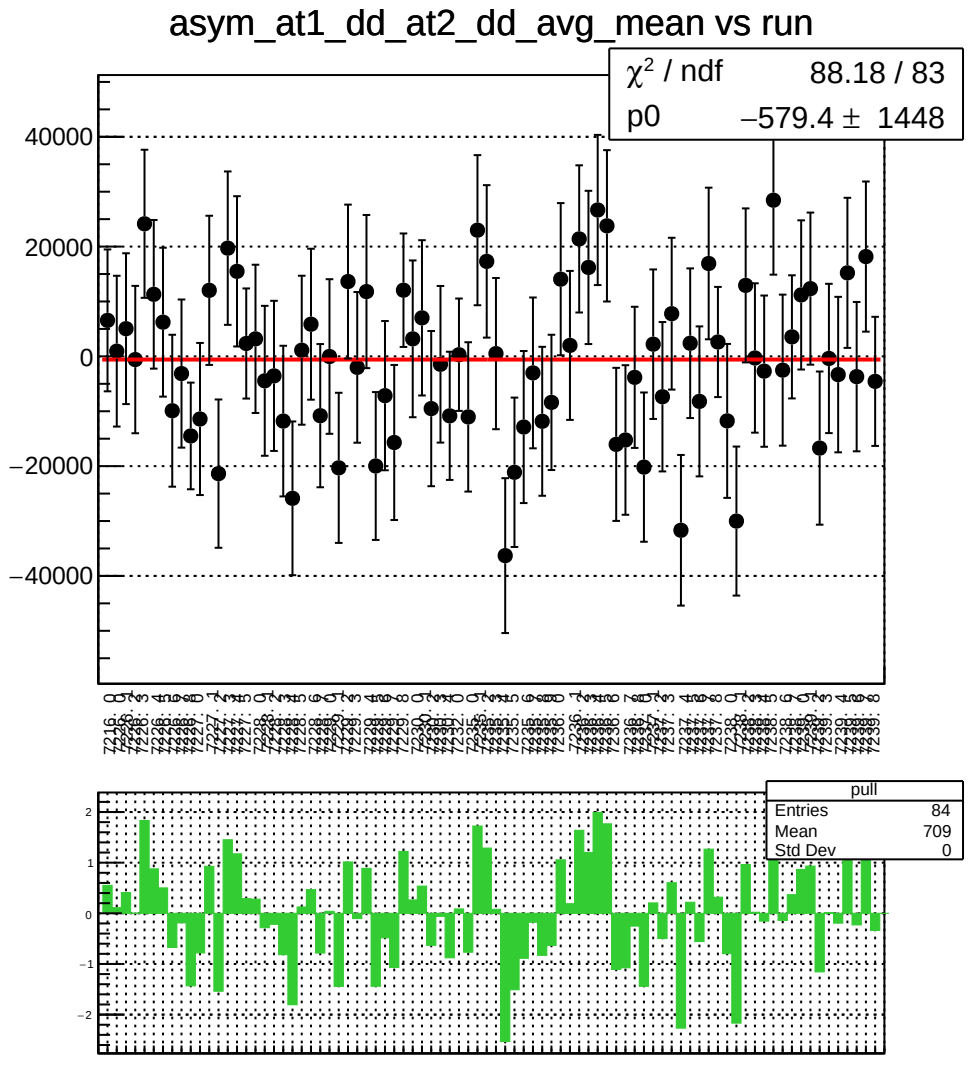

asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 7973 / 83
p0 605.4 ± 0.4758
720
700
680
660
640
620
600
580
560
540
520

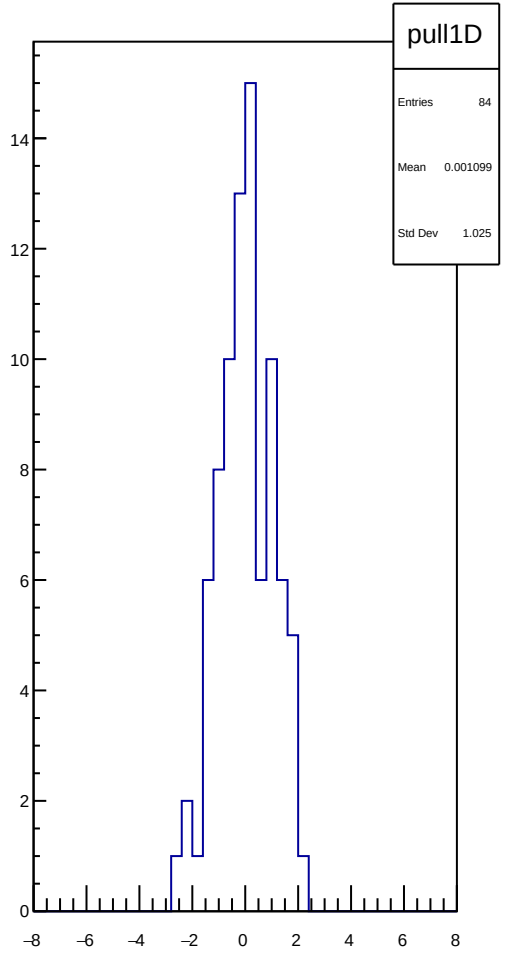

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 105.2 / 83
p0 933.3 ± 1342
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 631
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.002362
Std Dev 1.119
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

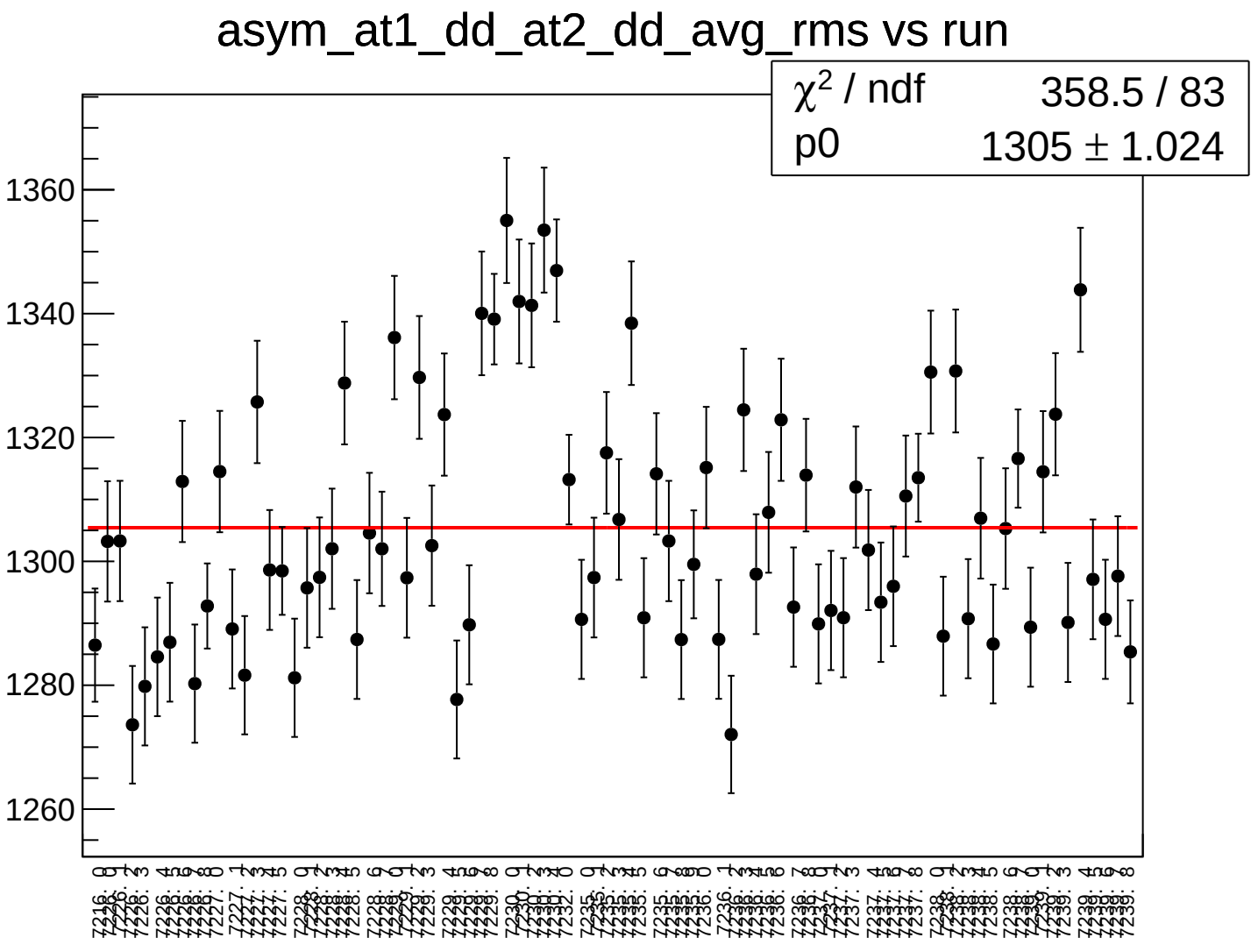

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 101.2 / 83
p0 1210 ± 0.9487
1250
1240
1230
1220
1210
1200
1190
1180

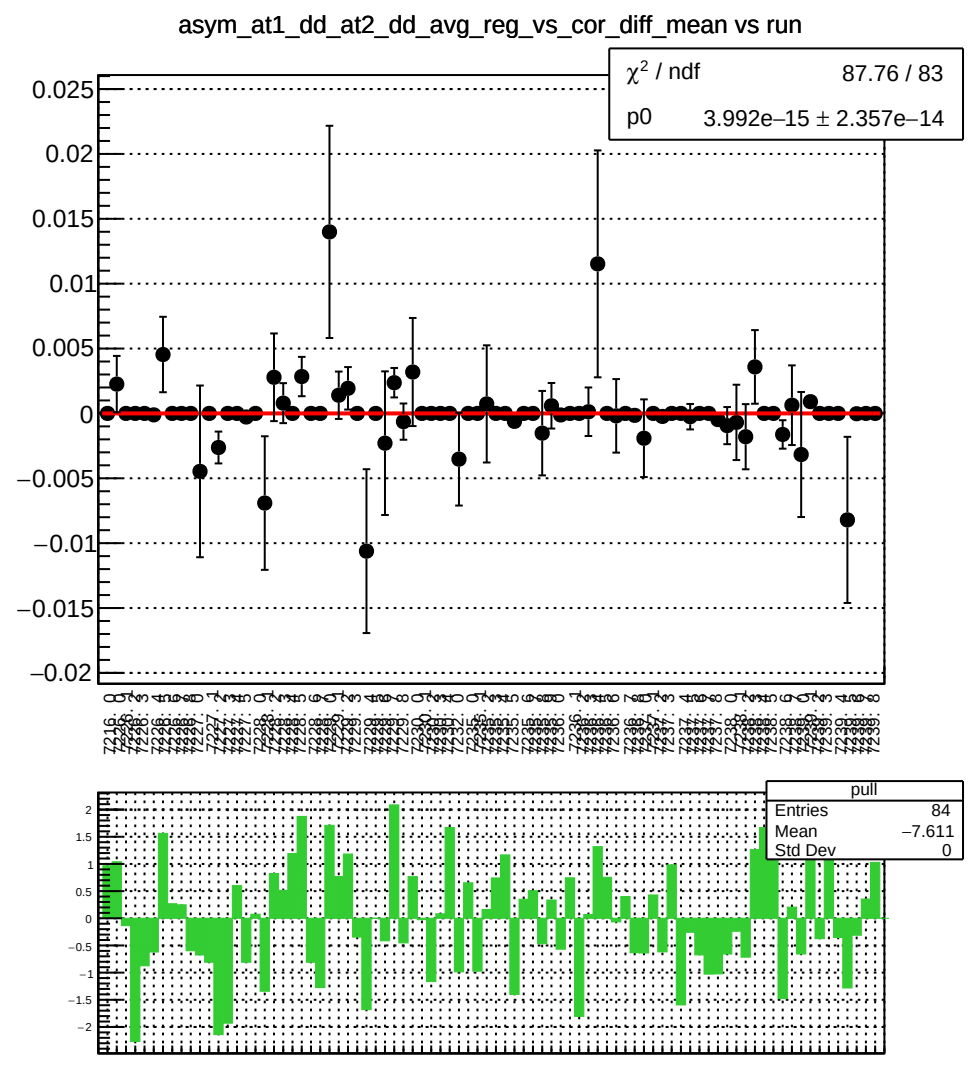

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 78.85 / 83
p0 1536 ± 672.9
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 1265
Std Dev 0
pull1D
Entries 84
Mean 0.001088
Std Dev 0.9688
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

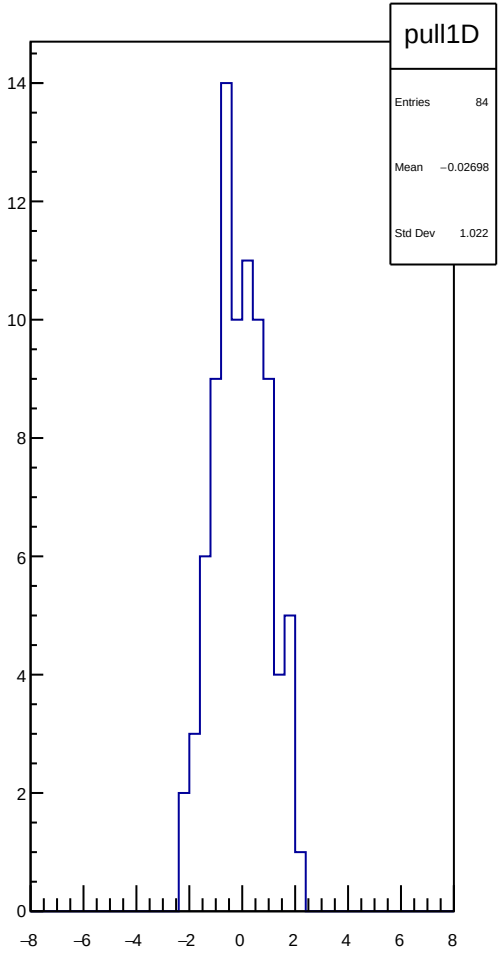

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 7973 / 83
p0 605.4 ± 0.4758
720
700
680
660
640
620
600
580
560
540
520

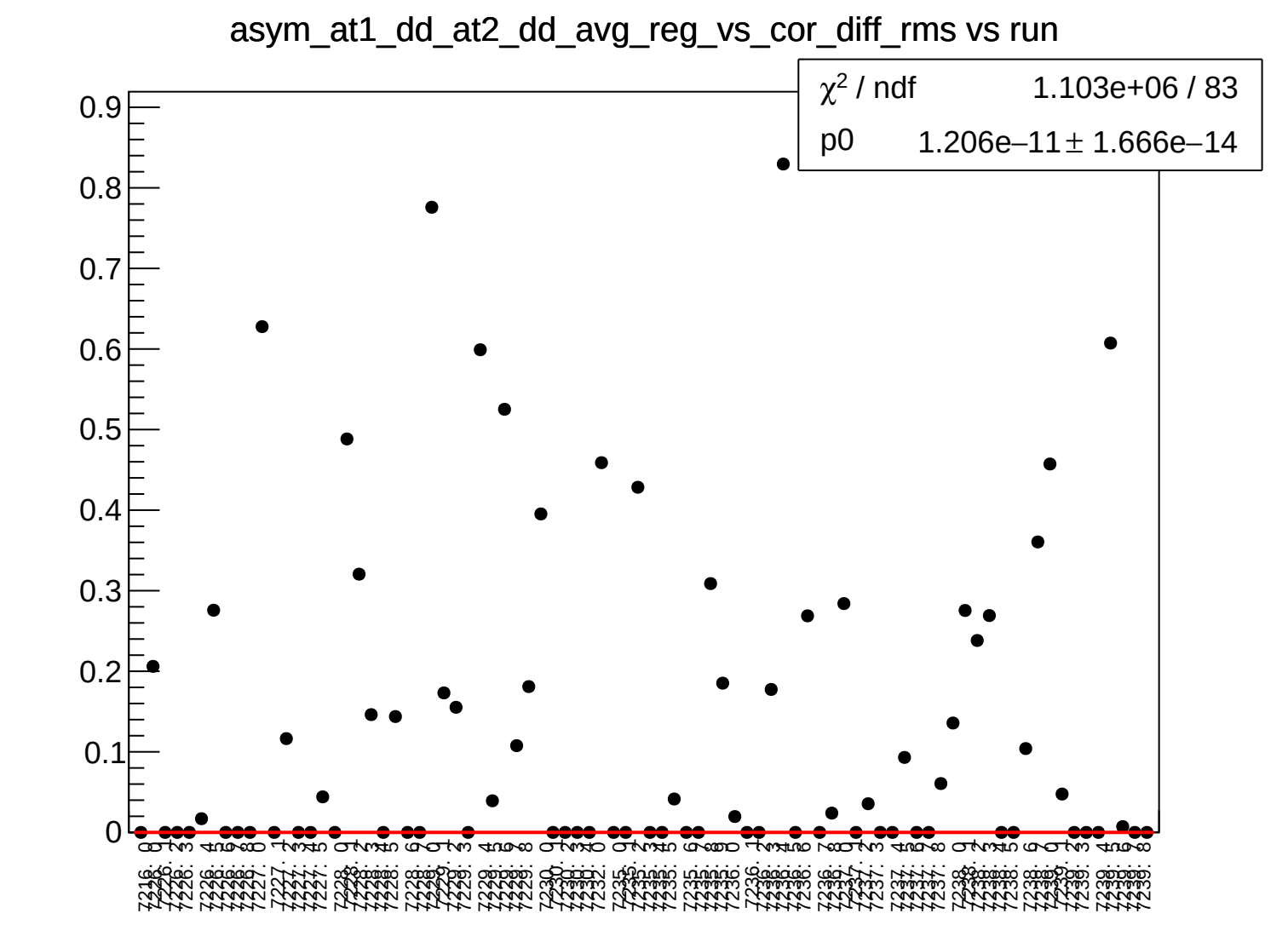

asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 88.18 / 83
p0 −579.4 ± 1448
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 709
Std Dev 0
2
1
0
−1
−2

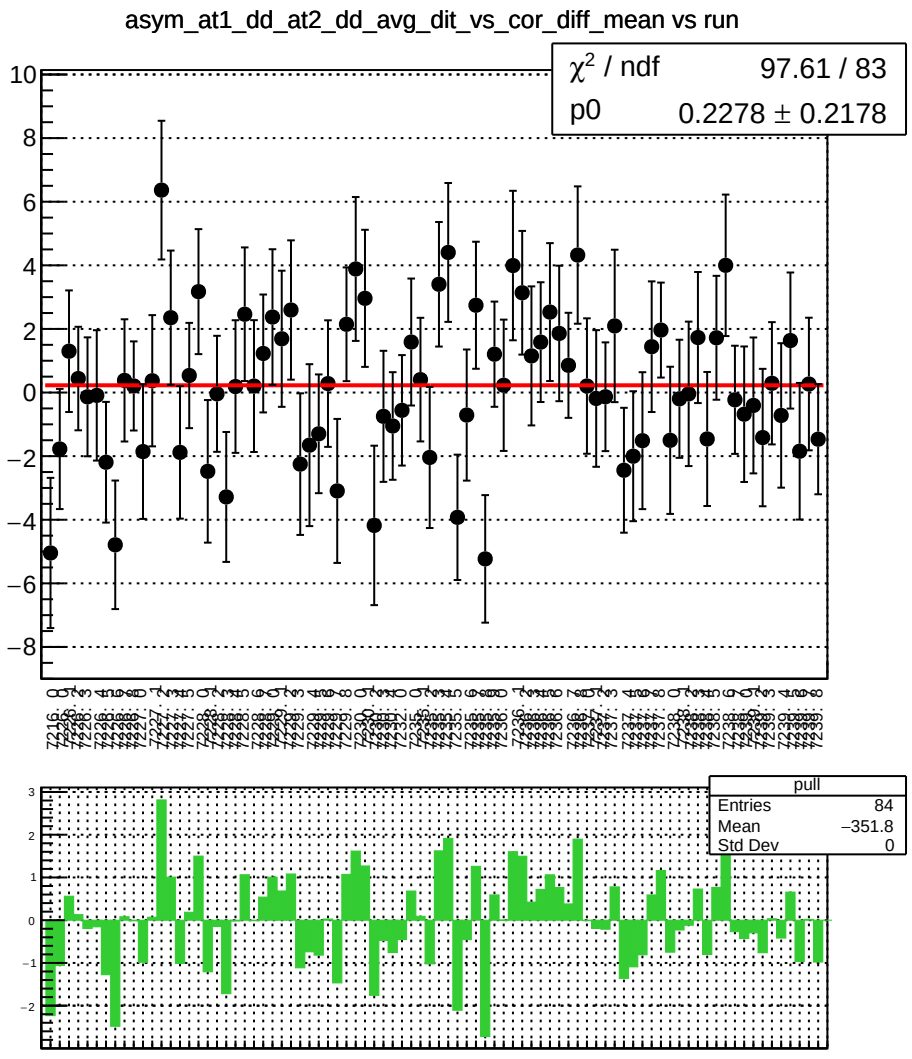

pull1D
Entries 84
Mean 0.001099
Std Dev 1.025
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

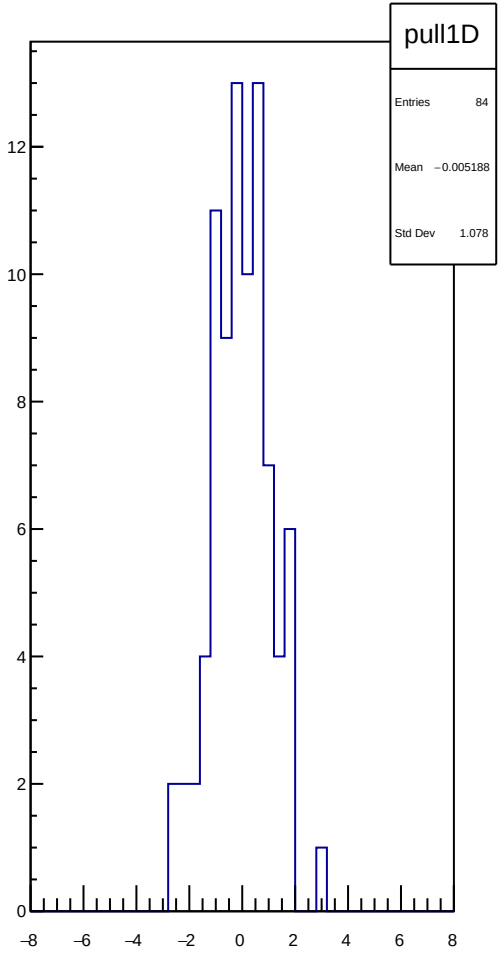

asym_at1_dd_at2_dd_avg_rms vs run
χ^2 / ndf 358.5 / 83
p0 1305 ± 1.024
1360
1340
1320
1300
1280
1260

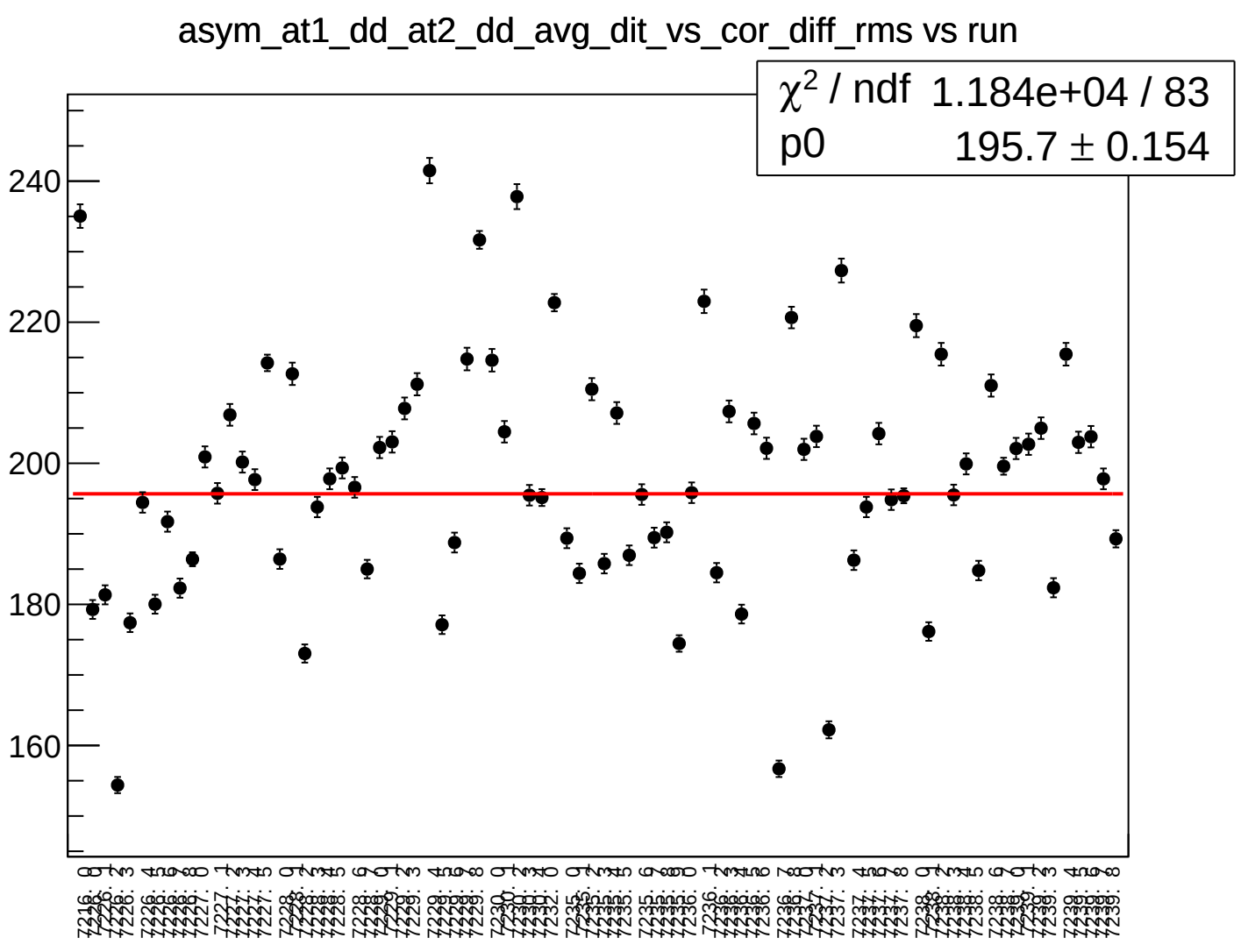

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 87.76 / 83
p0 3.992e−15 ± 2.357e−14
pull
Entries 84
Mean −7.611
Std Dev 0

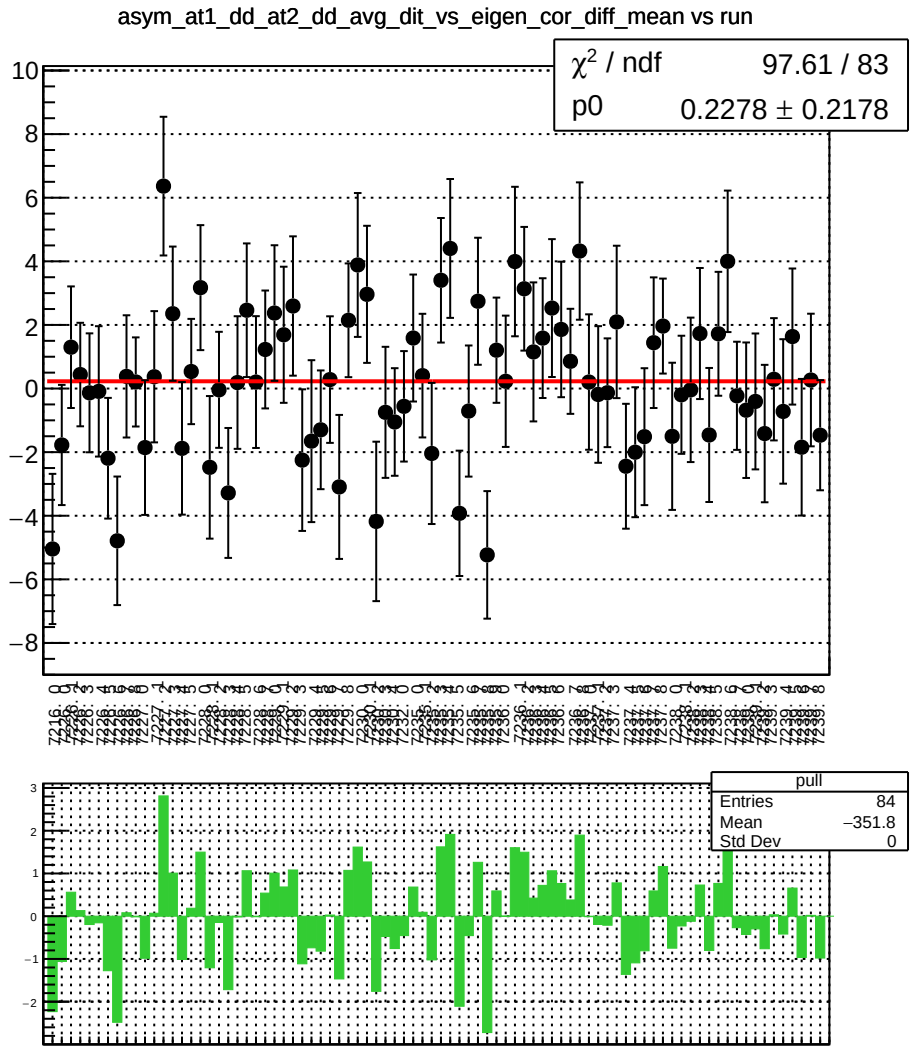

pull1D
Entries 84
Mean −0.02698
Std Dev 1.022

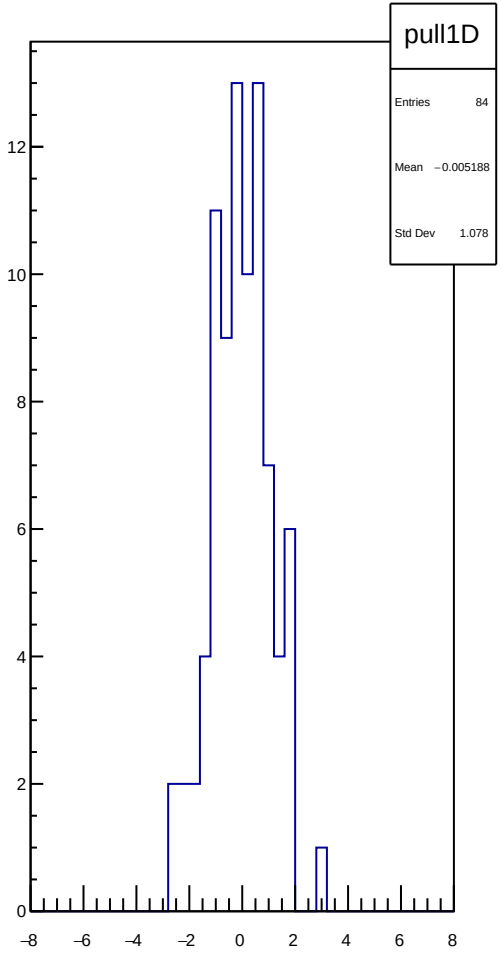

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.103e+06 / 83
p0 1.206e−11 ± 1.666e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

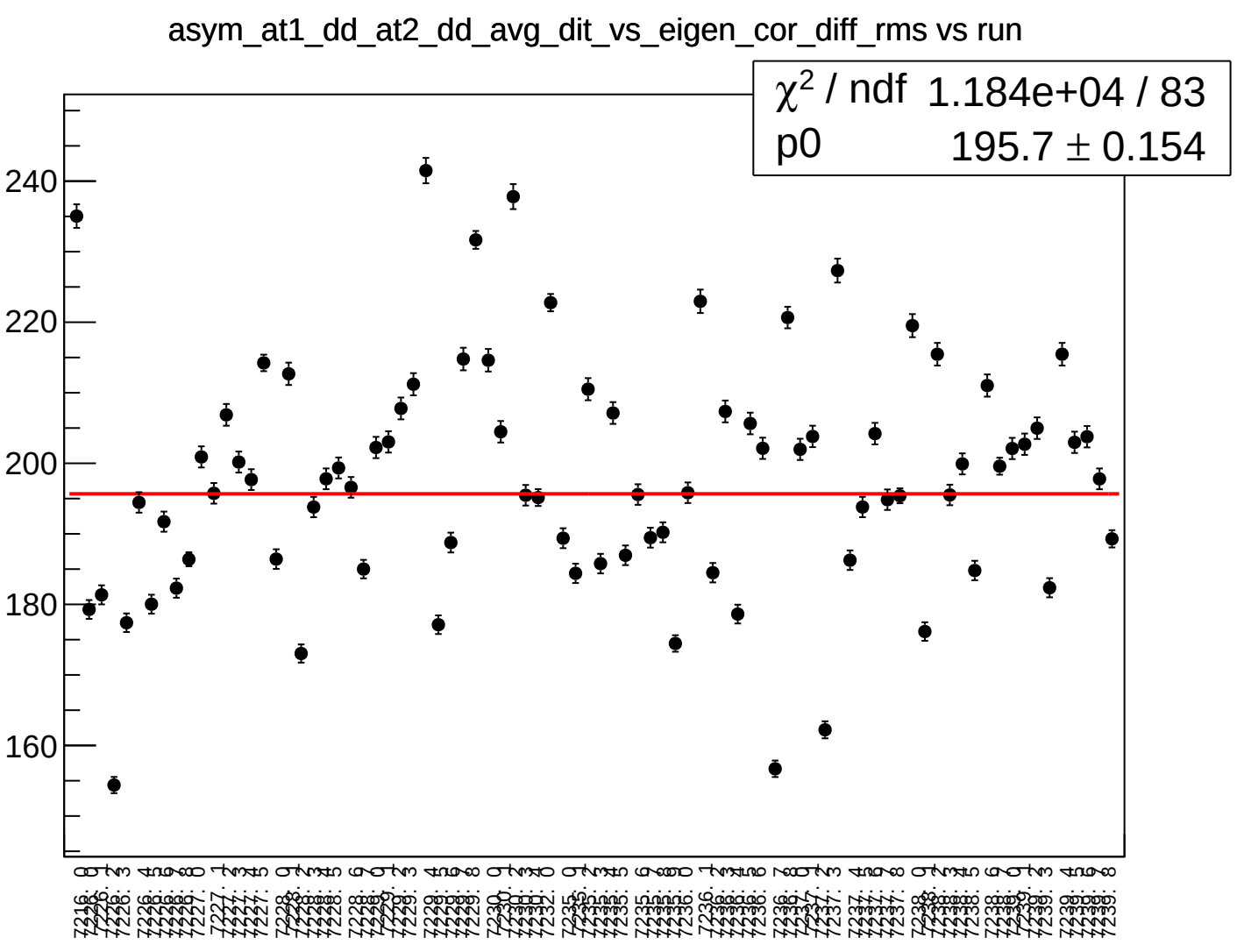

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 97.61 / 83
p0 0.2278 ± 0.2178
pull
Entries 84
Mean −351.8
Std Dev 0

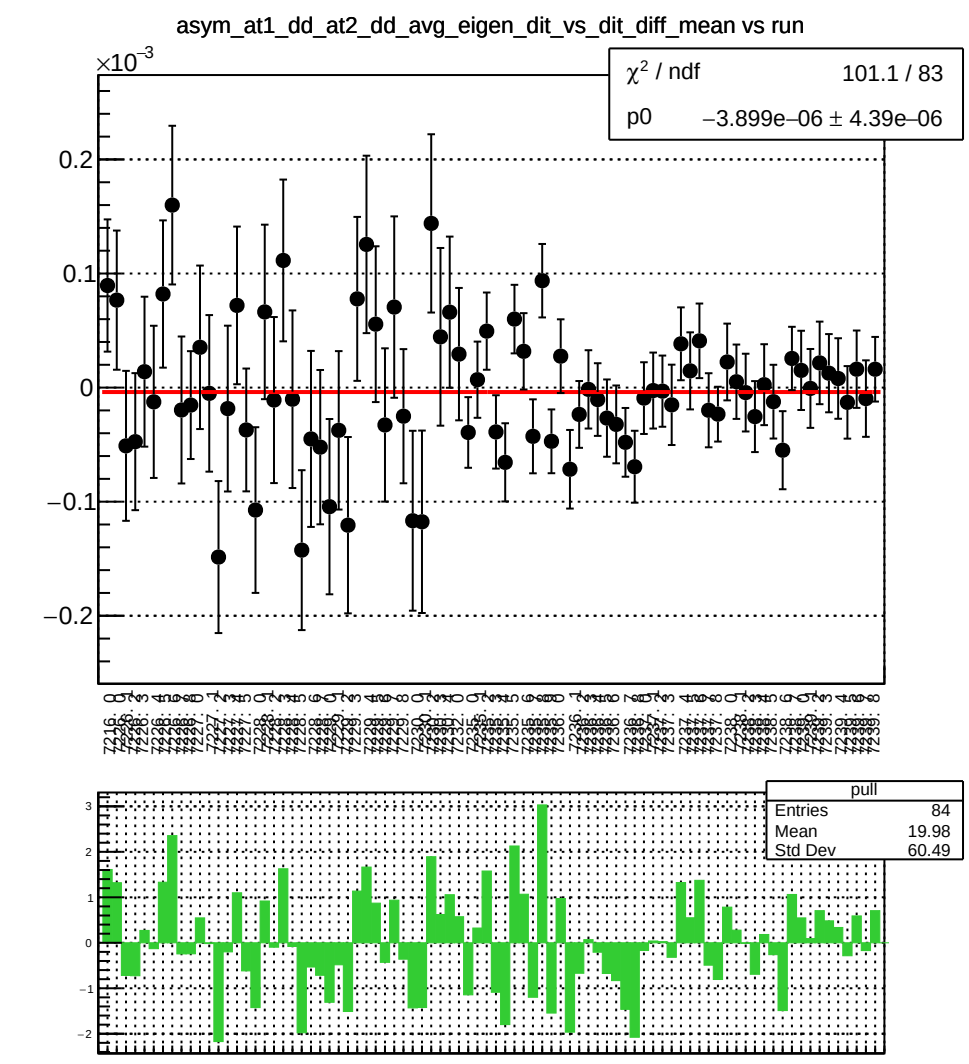

pull1D
Entries 84
Mean −0.005188
Std Dev 1.078

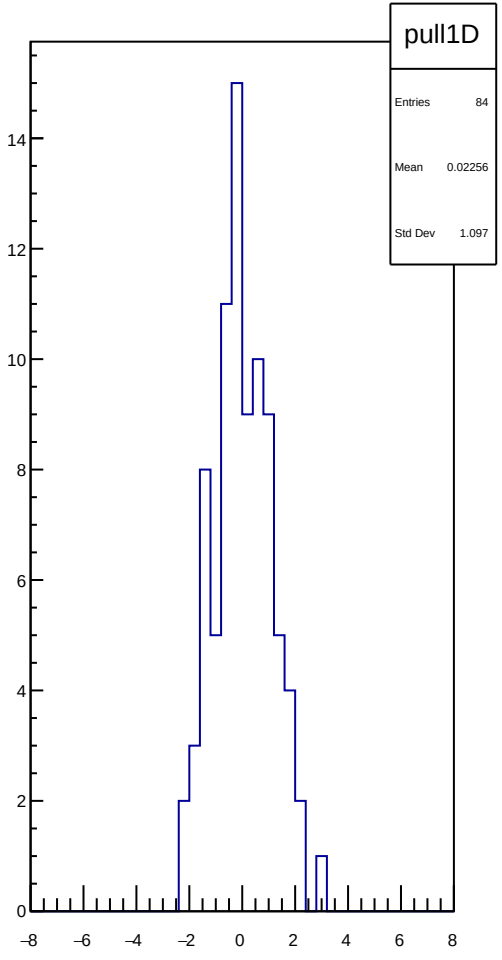

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.184e+04 / 83
p0 195.7 ± 0.154
240
220
200
180
160

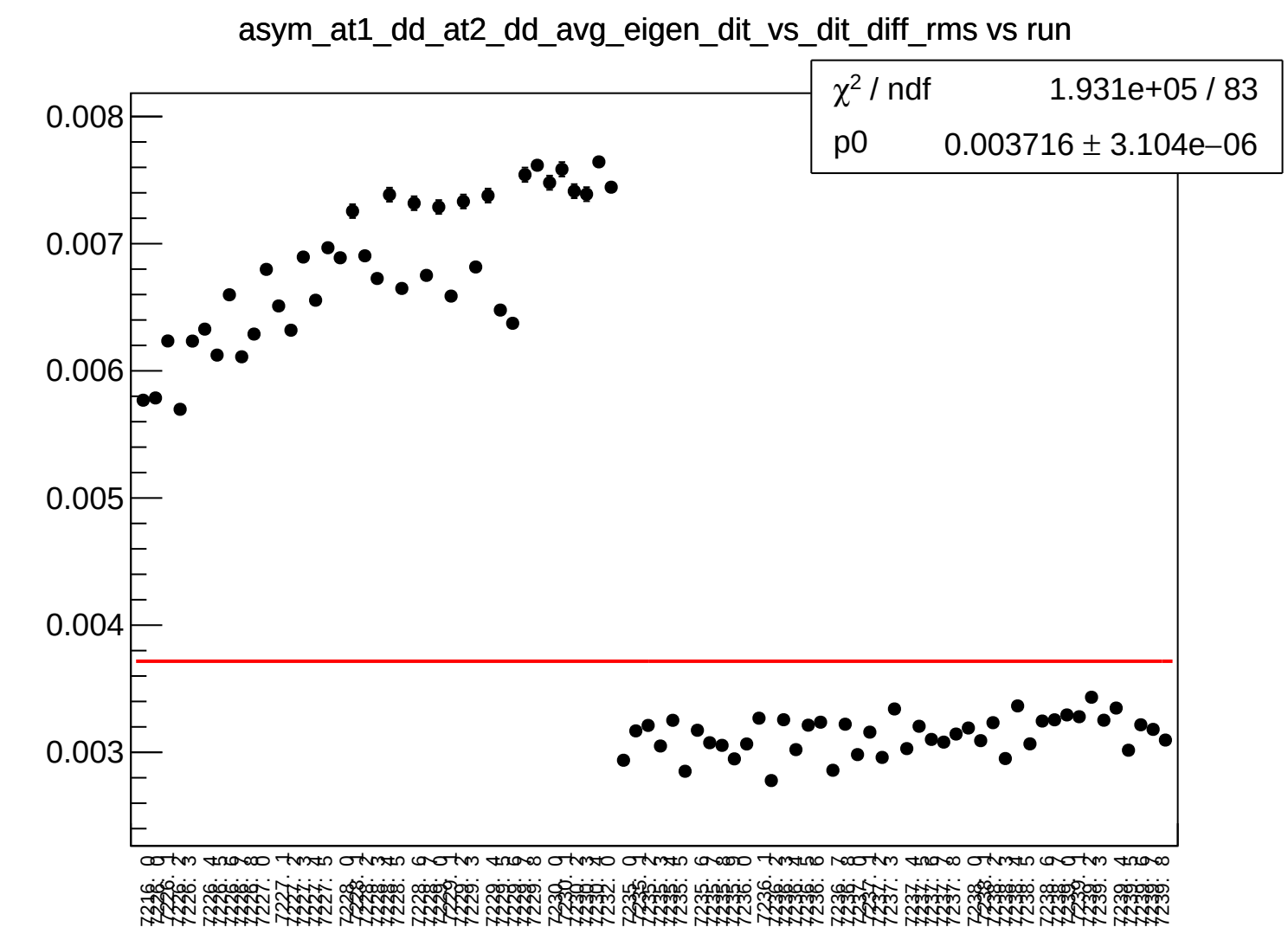

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.61 / 83
p0 0.2278 ± 0.2178
pull
Entries 84
Mean −351.8
Std Dev 0

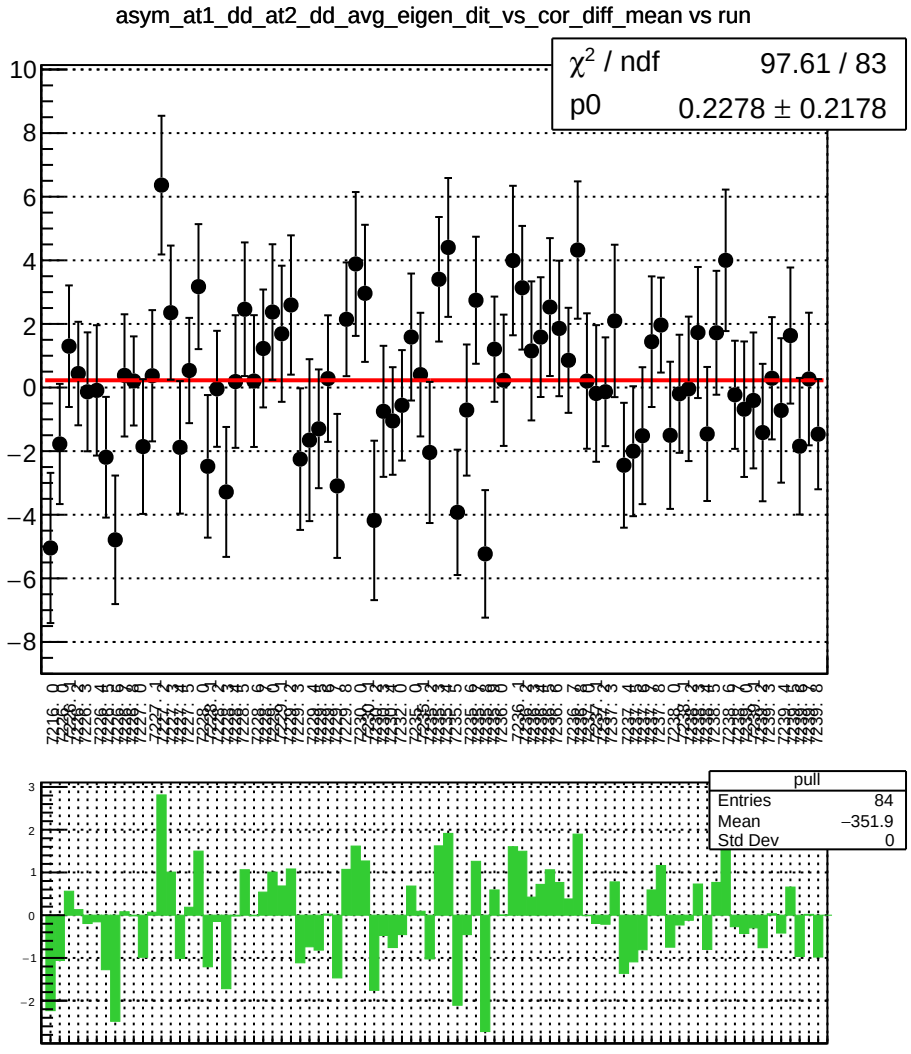

pull1D
Entries 84
Mean −0.005188
Std Dev 1.078

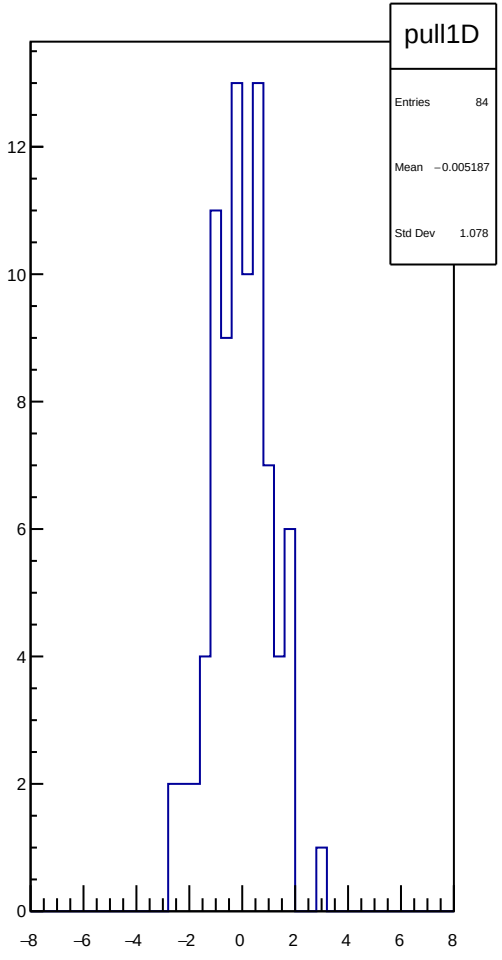

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.184e+04 / 83
p0 195.7 ± 0.154
240
220
200
180
160

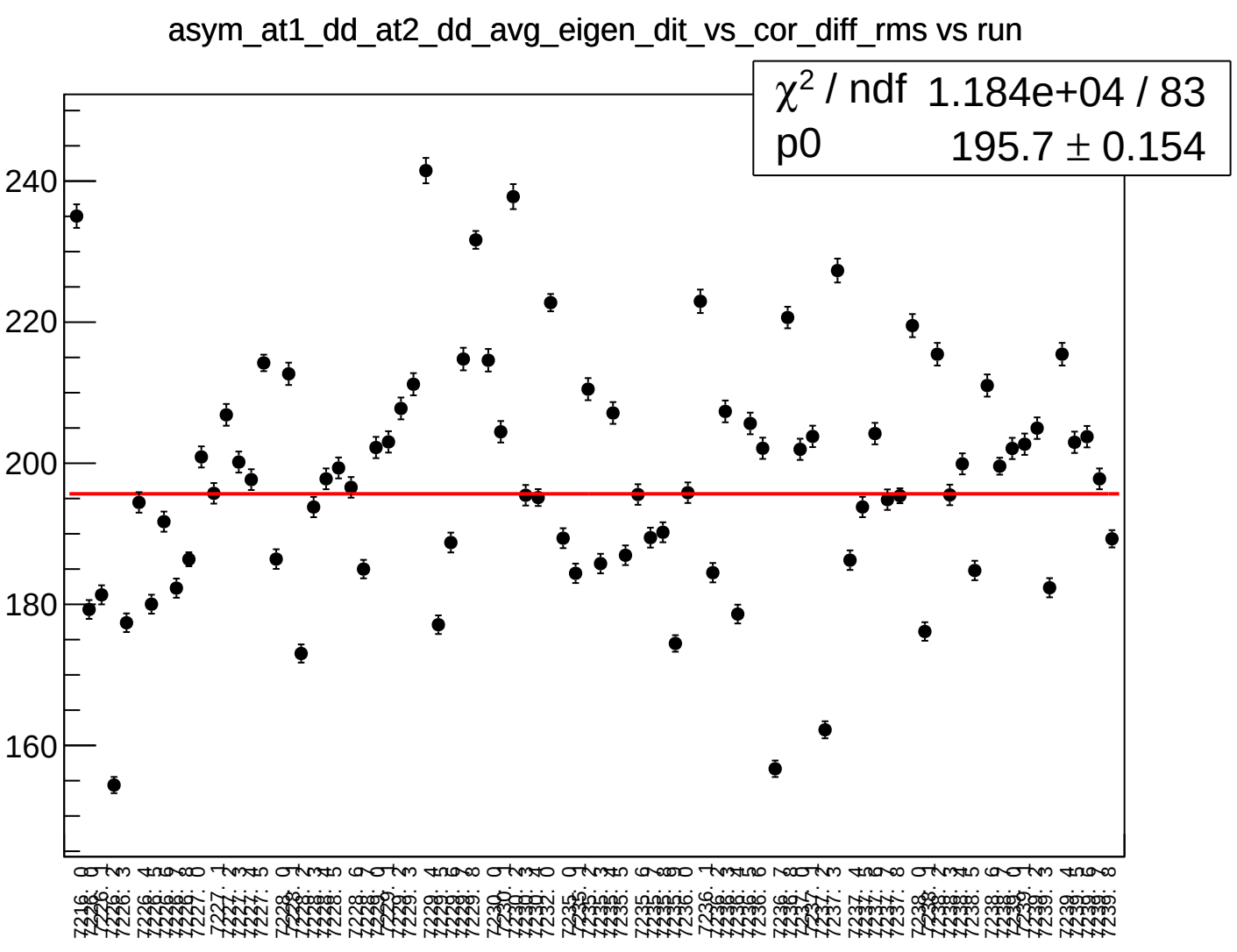

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.1 / 83
p0 −3.899e−06 ± 4.39e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 84
Mean 19.98
Std Dev 60.49
3
2
1
0
−1
−2

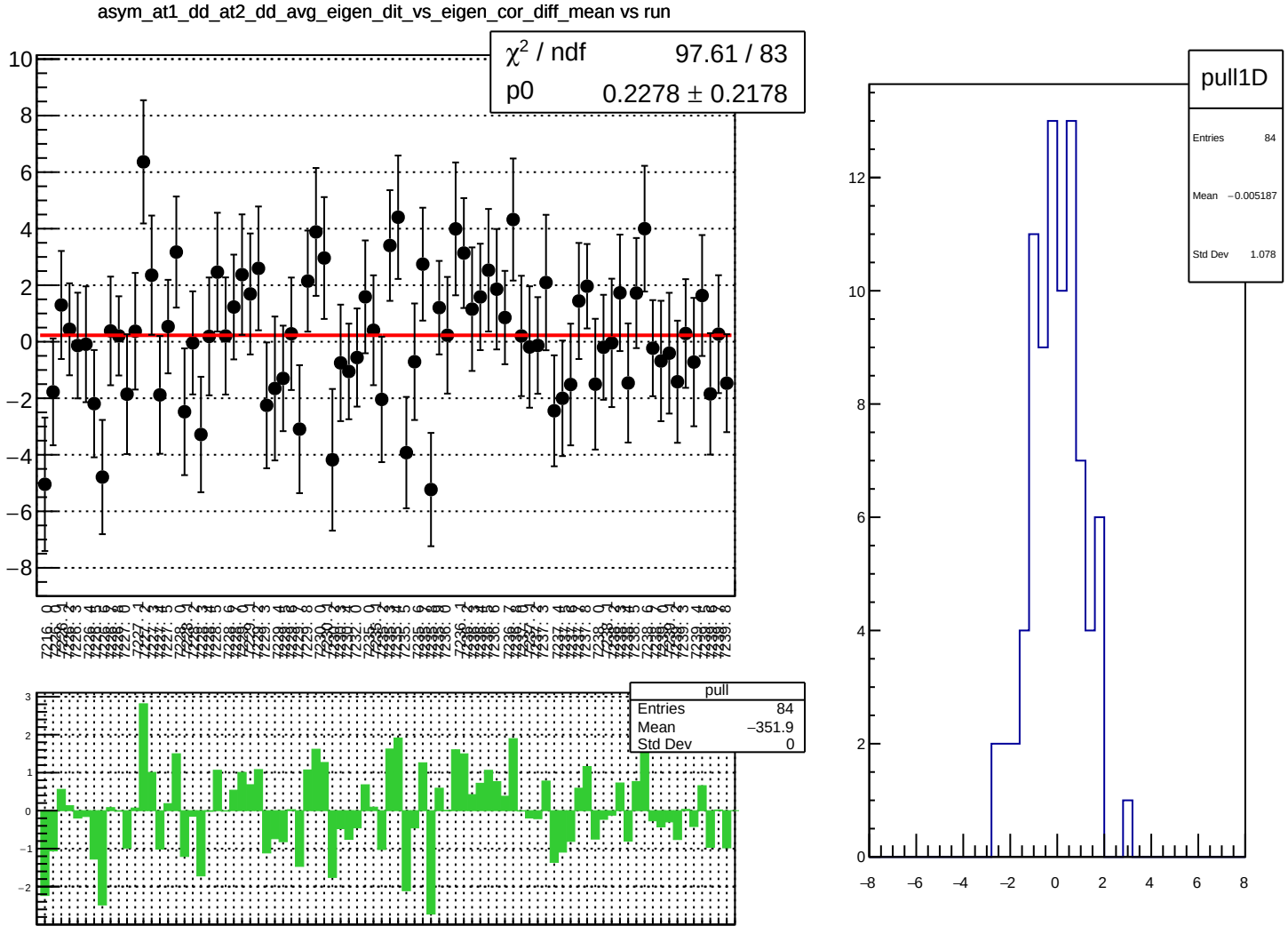

pull1D
Entries 84
Mean 0.02256
Std Dev 1.097
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

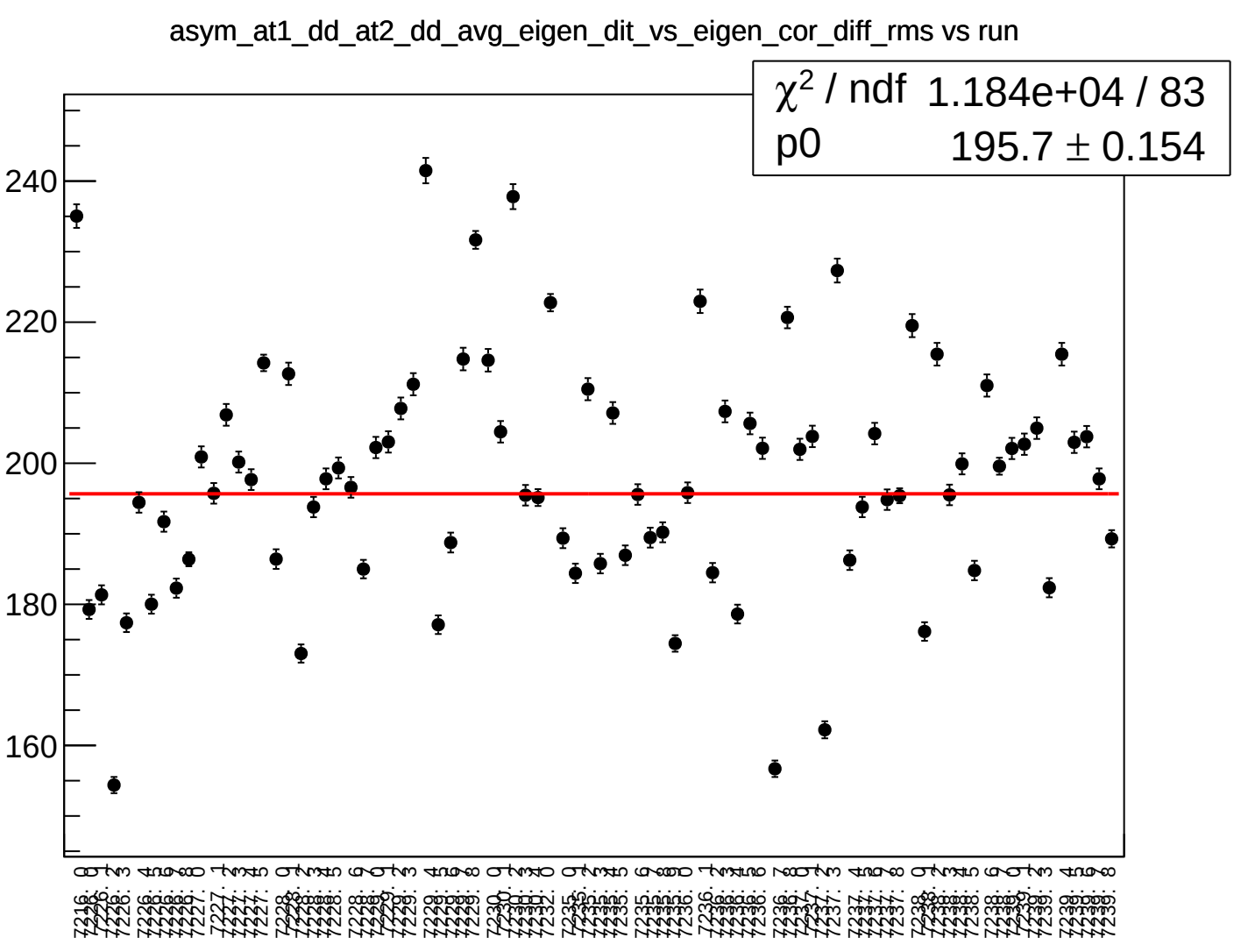

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.931e+05 / 83
p0 0.003716 ± 3.104e−06
0.008
0.007
0.006
0.005
0.004
0.003

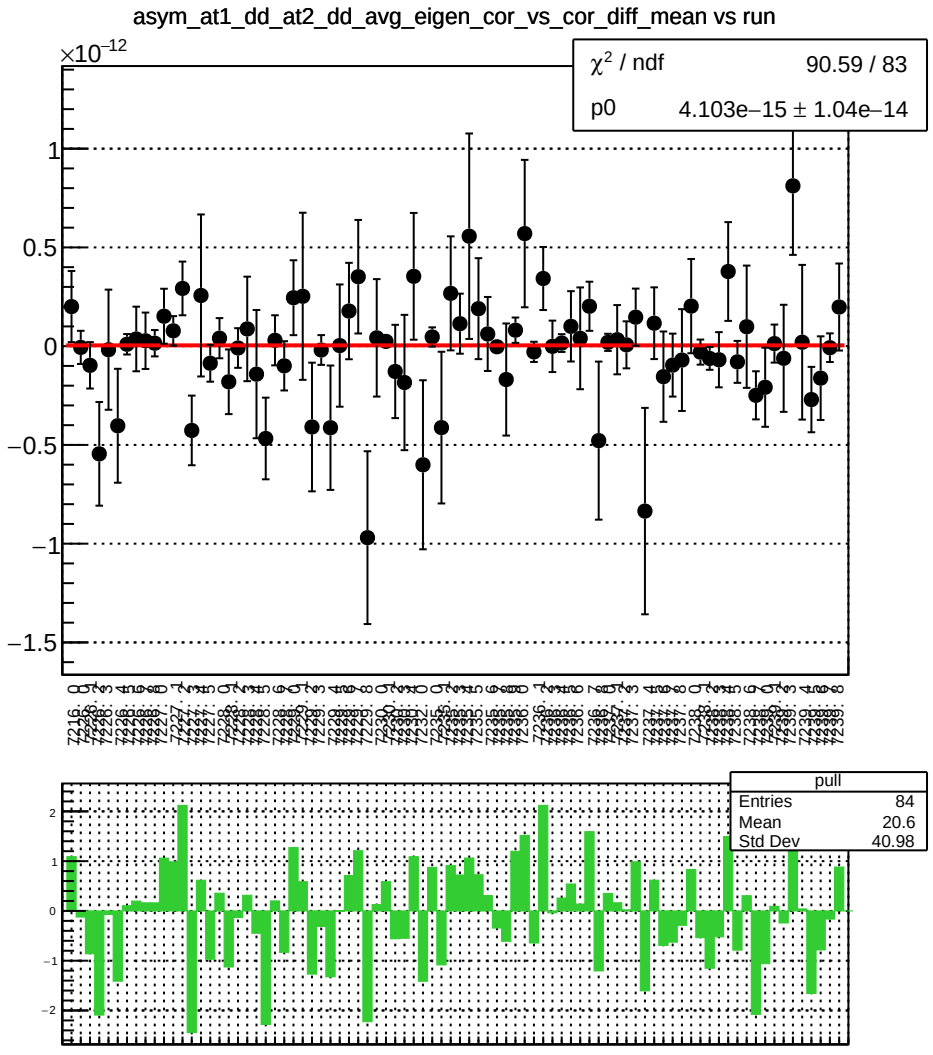

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.61 / 83
p0 0.2278 ± 0.2178
pull
Entries 84
Mean −351.9
Std Dev 0

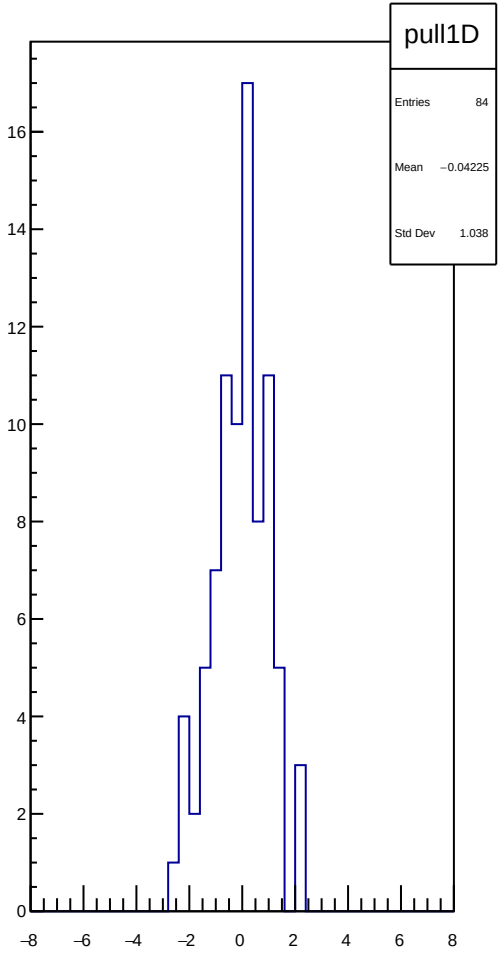

pull1D
Entries 84
Mean −0.005187
Std Dev 1.078

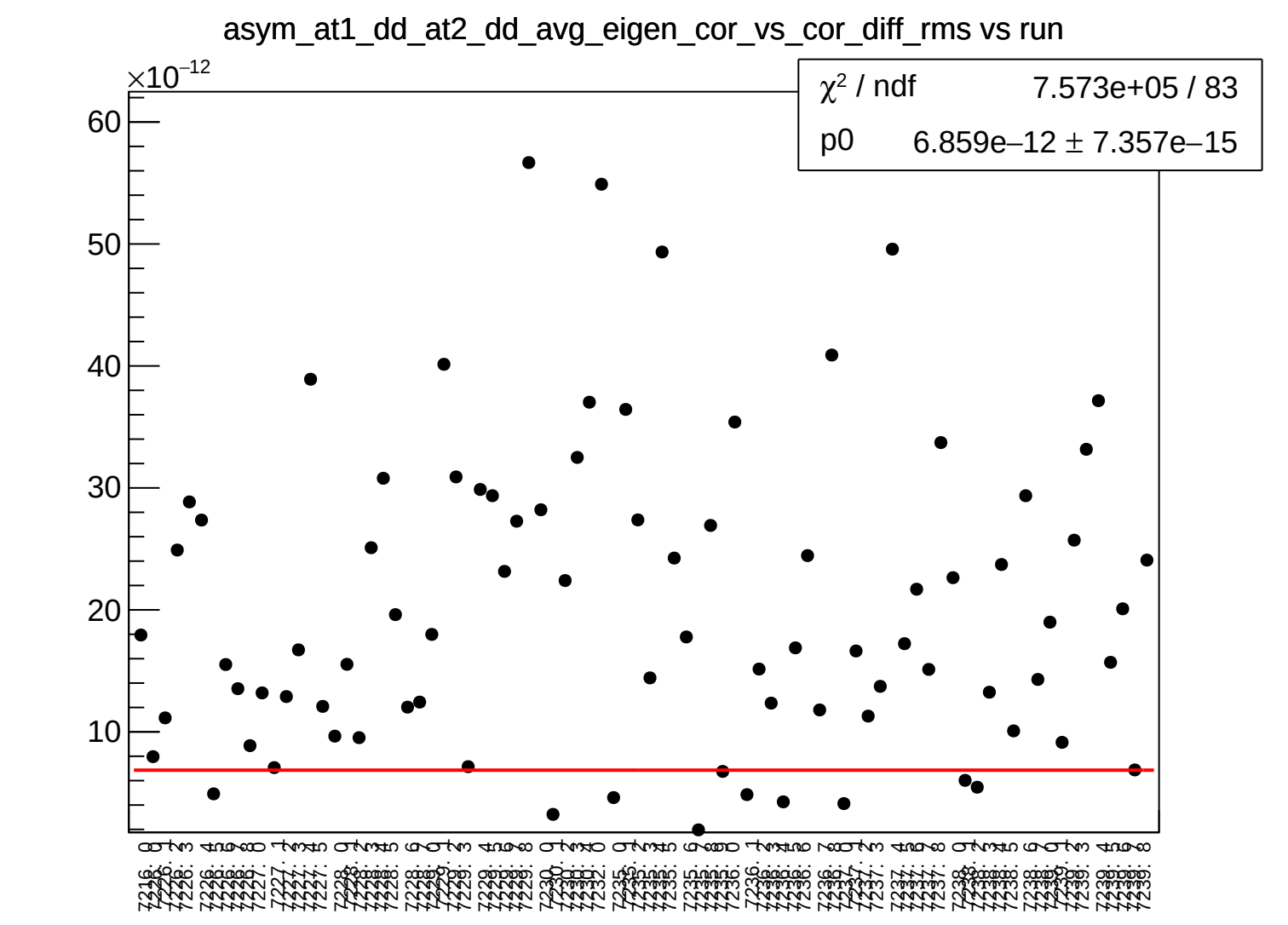

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.184e+04 / 83
p0 195.7 ± 0.154
240
220
200
180
160

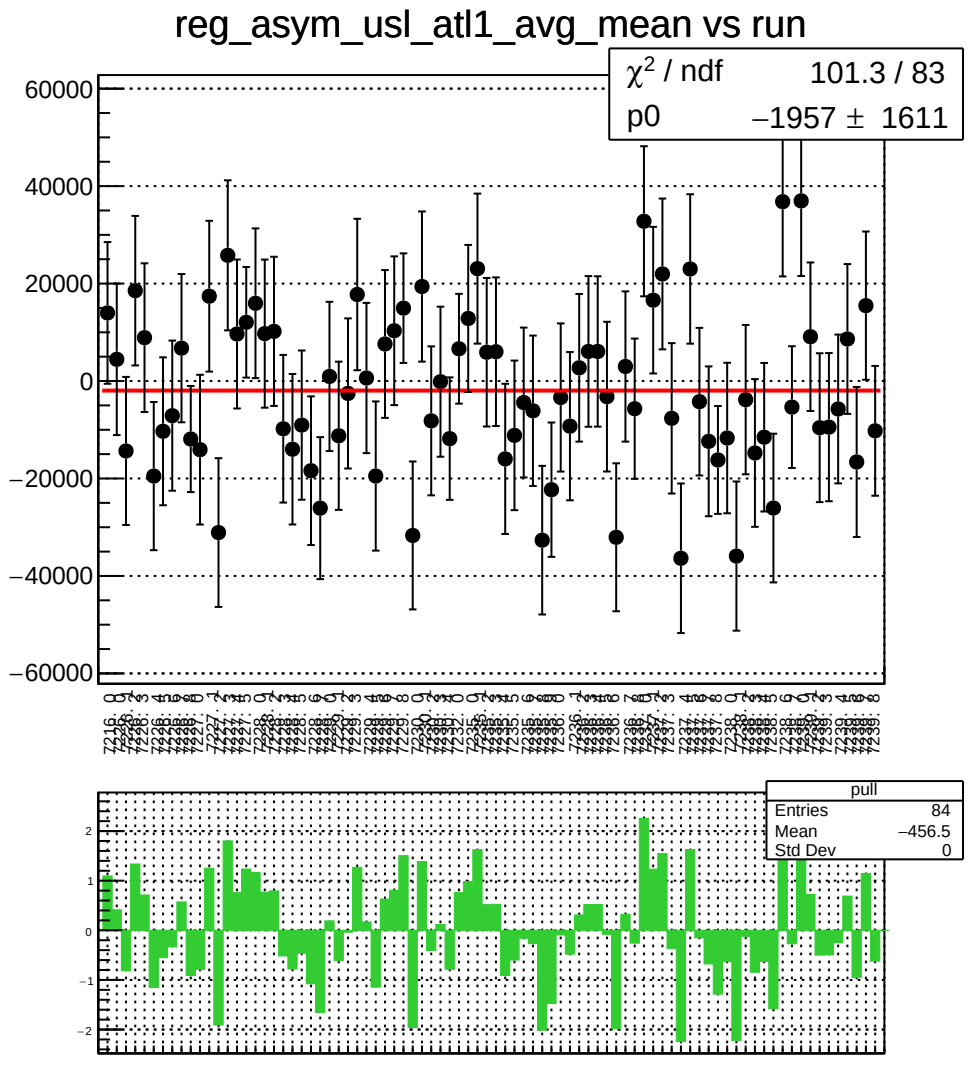

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.61 / 83
p0 0.2278 ± 0.2178
pull
Entries 84
Mean −351.9
Std Dev 0
pull1D
Entries 84
Mean −0.005187
Std Dev 1.078

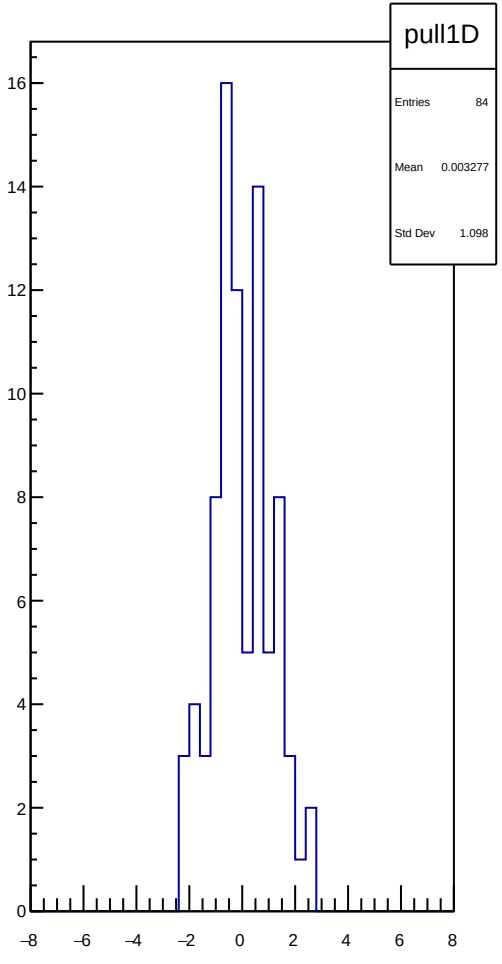

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.184e+04 / 83
p0 195.7 ± 0.154
240
220
200
180
160

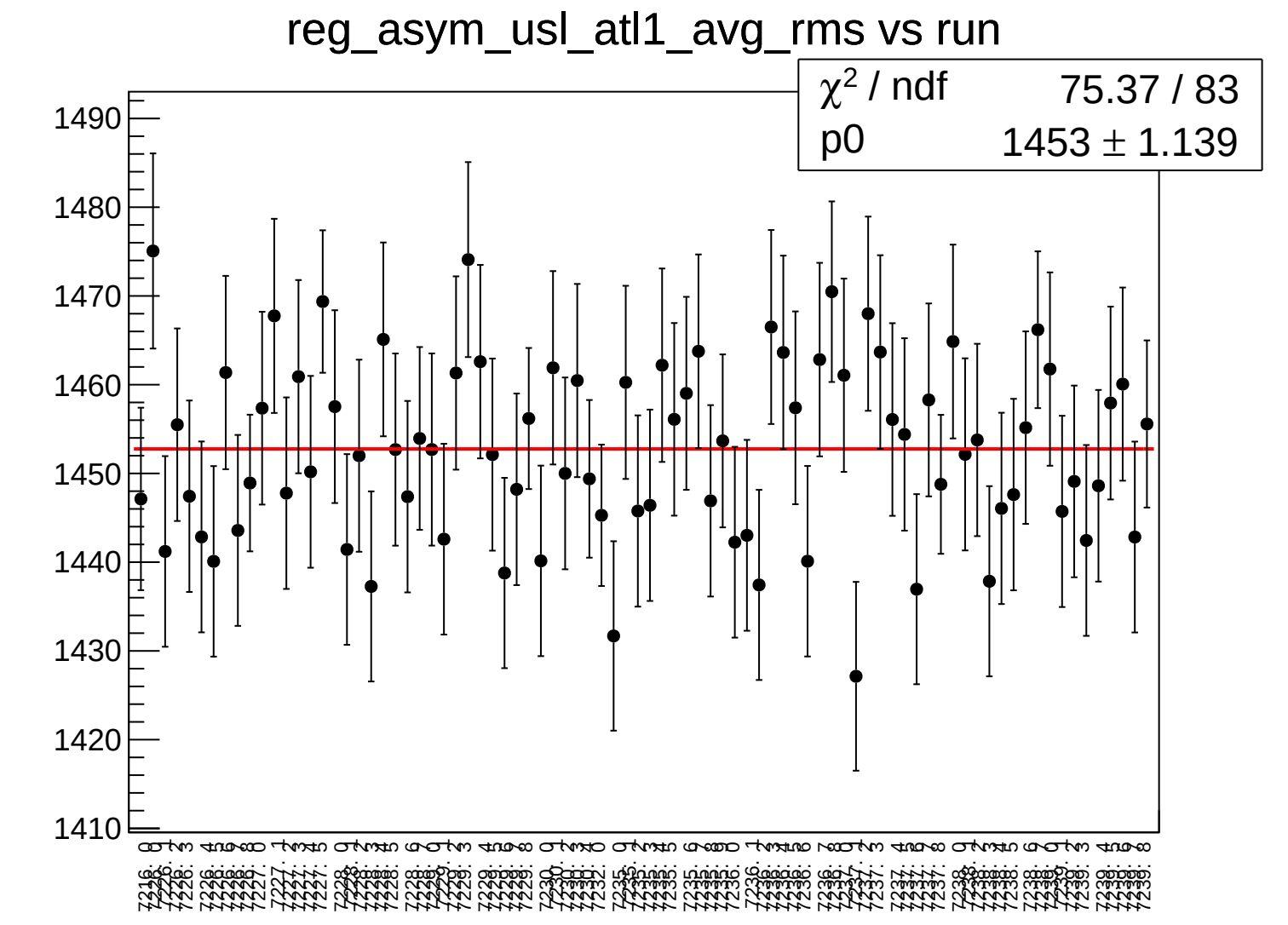

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.59 / 83
p0 4.103e−15 ± 1.04e−14
pull
Entries 84
Mean 20.6
Std Dev 40.98

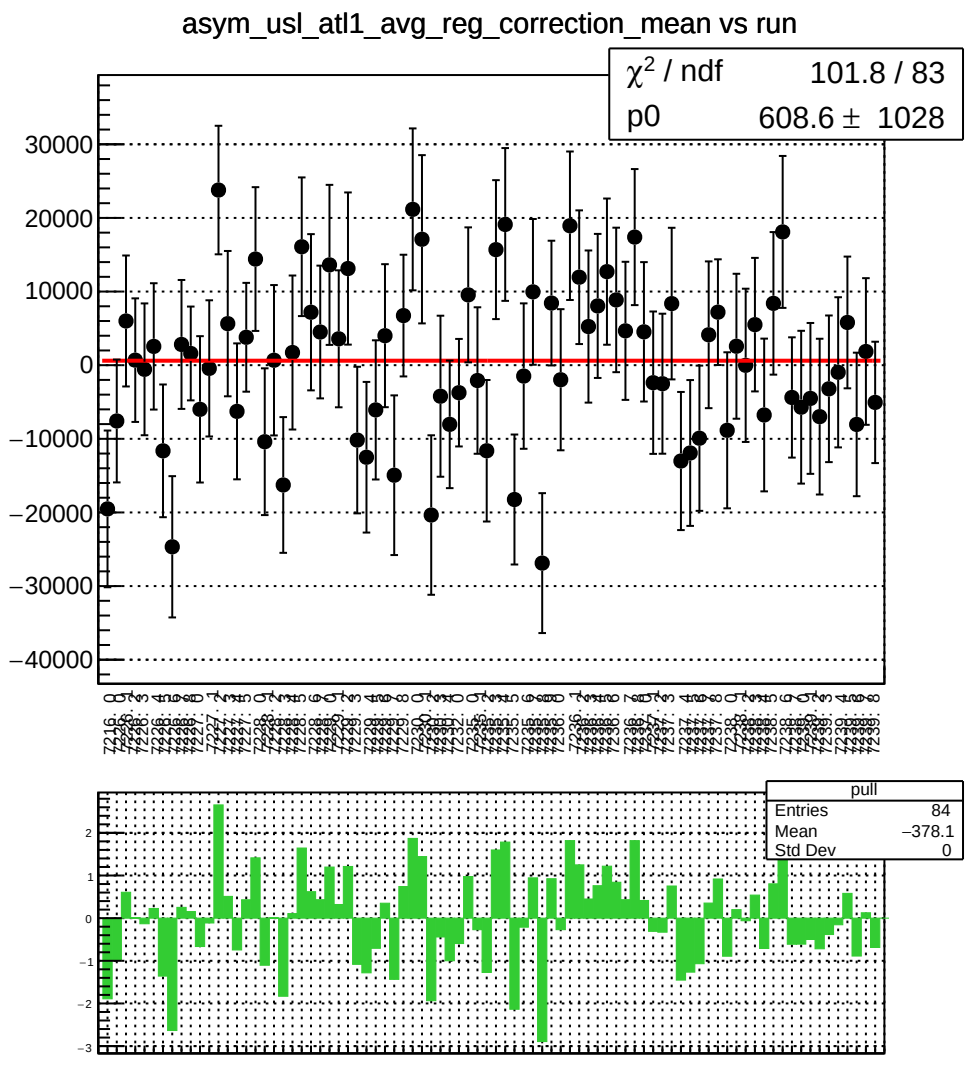

pull1D
Entries 84
Mean −0.04225
Std Dev 1.038

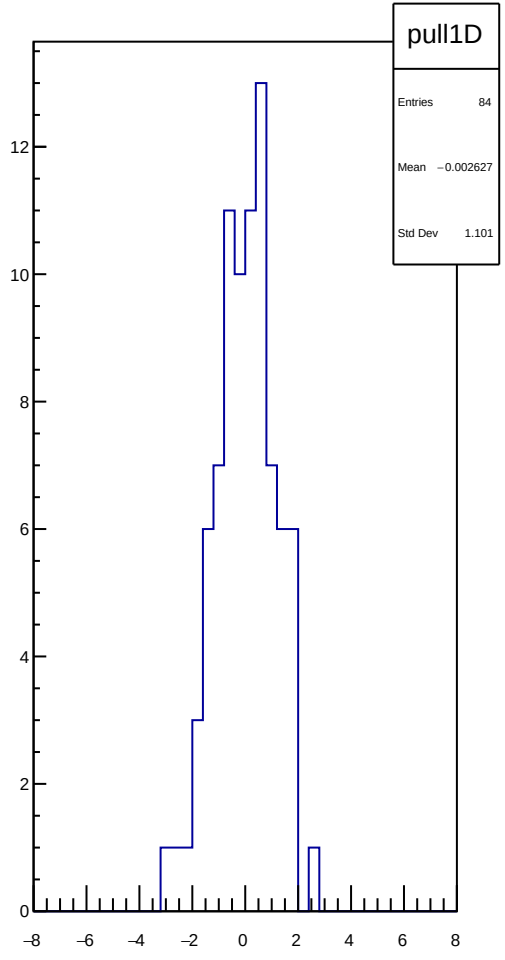

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.573e+05 / 83
p0 6.859e−12 ± 7.357e−15
60
50
40
30
20
10

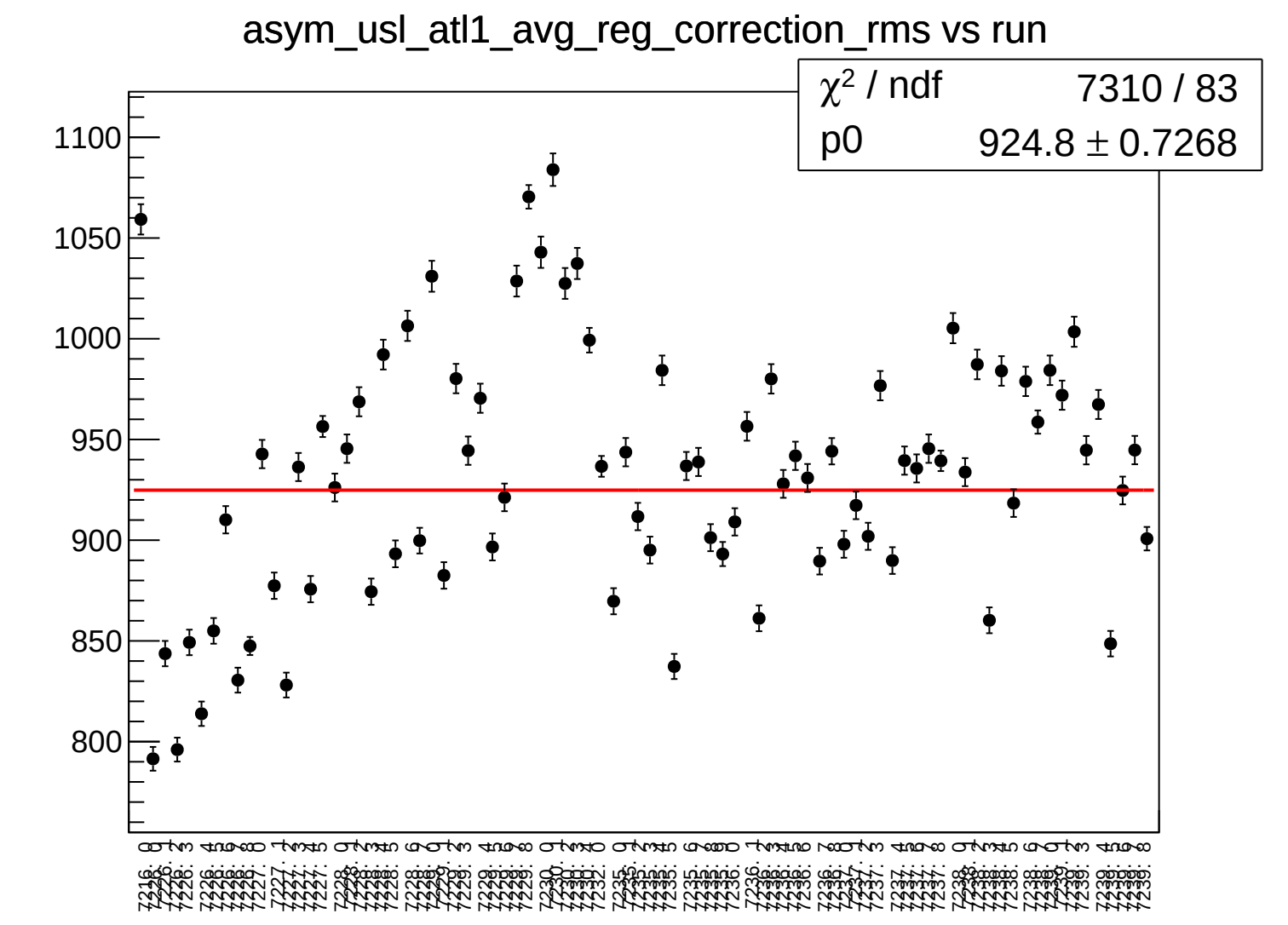

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 101.3 / 83
p0 −1957 ± 1611
pull
Entries 84
Mean −456.5
Std Dev 0

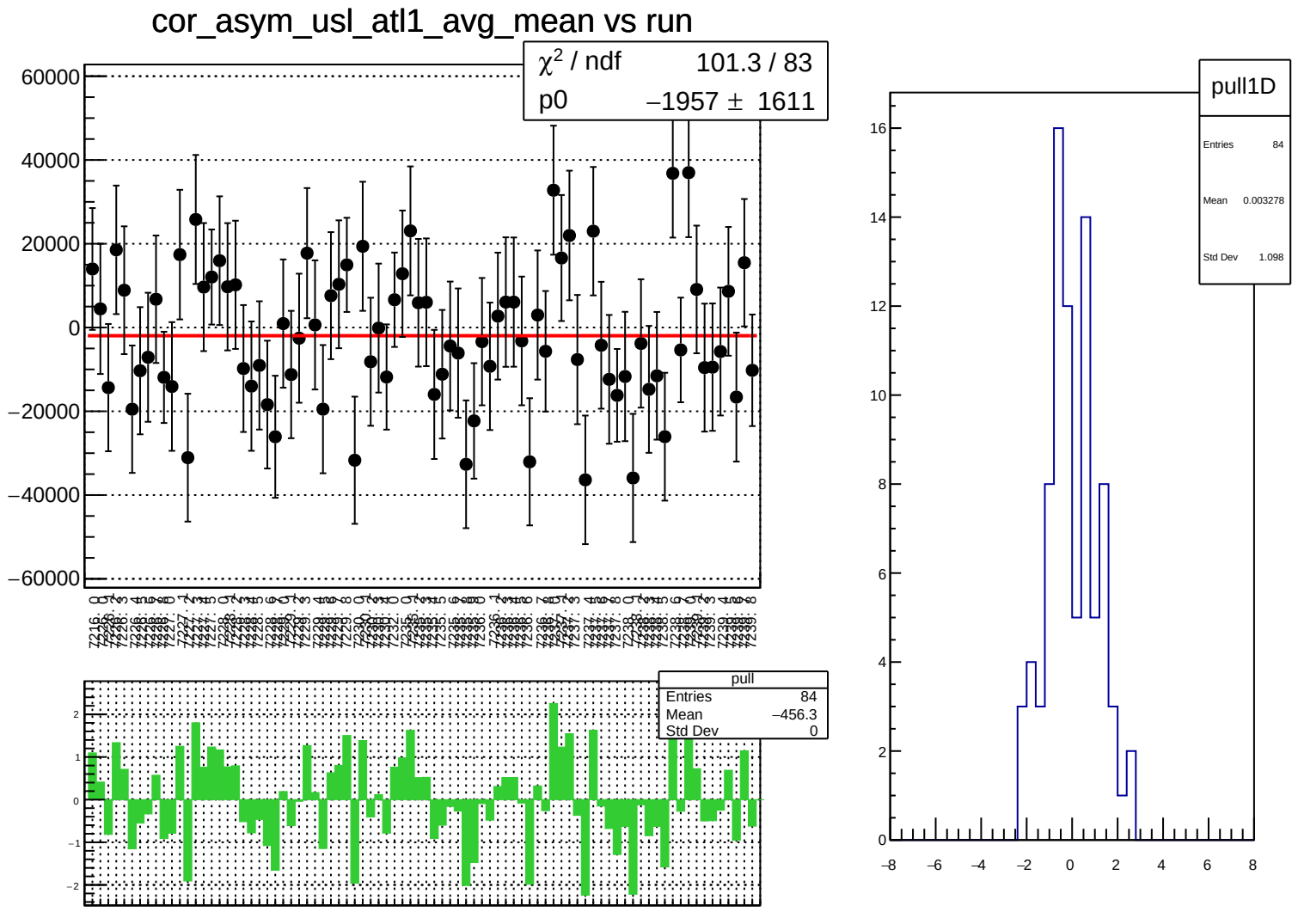

pull1D
Entries 84
Mean 0.003277
Std Dev 1.098

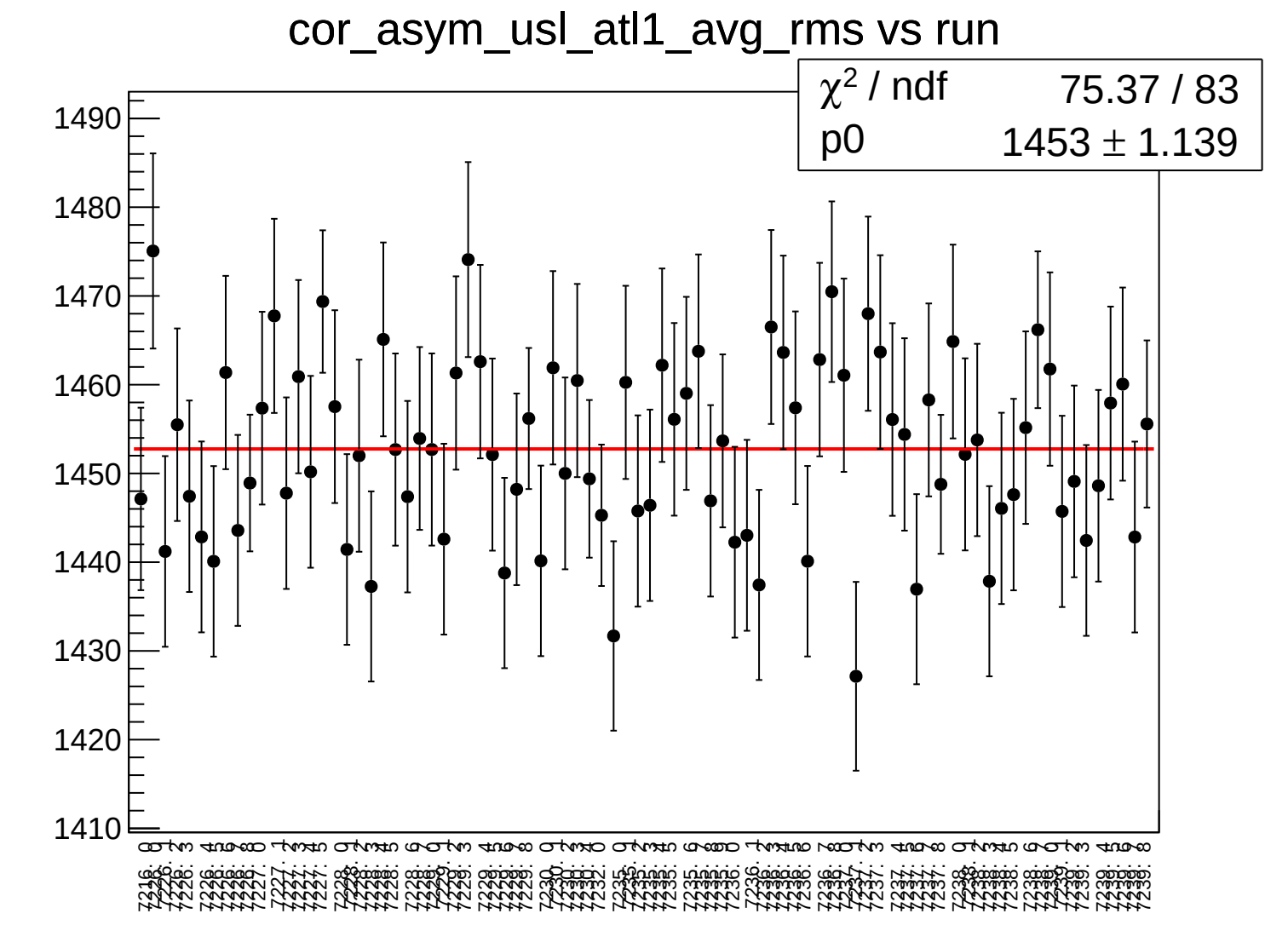

reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 75.37 / 83
p0 1453 ± 1.139
1490
1480
1470
1460
1450
1440
1430
1420
1410

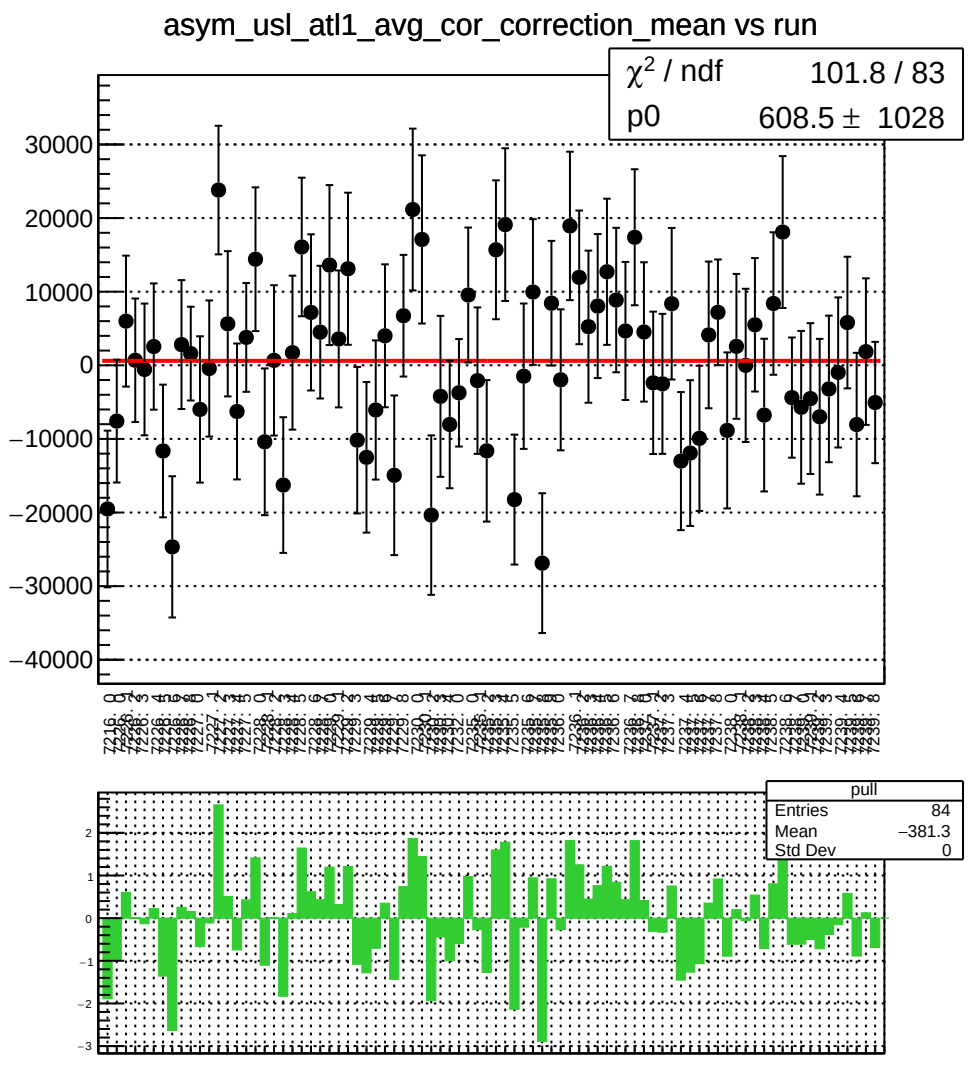

asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 101.8 / 83
p0 608.6 ± 1028
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 84
Mean −378.1
Std Dev 0
2
1
0
−1
−2
−3

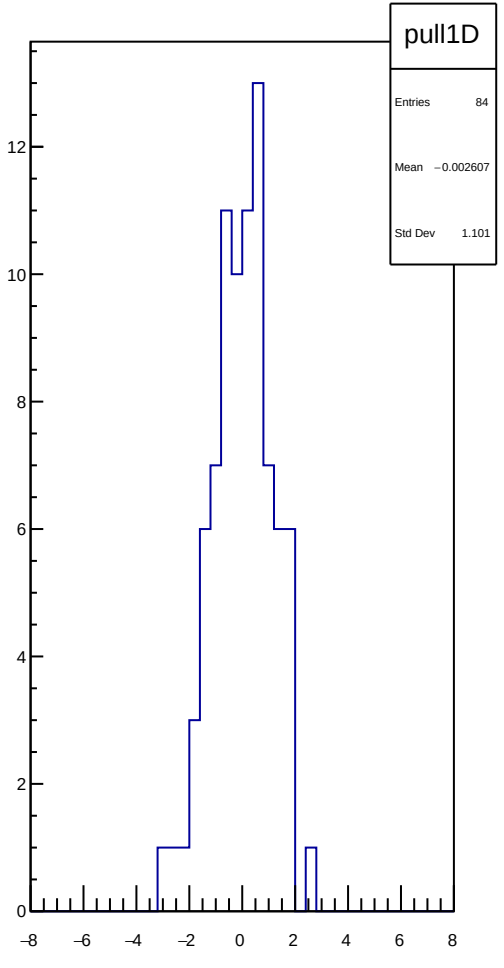

pull1D
Entries 84
Mean −0.002627
Std Dev 1.101
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

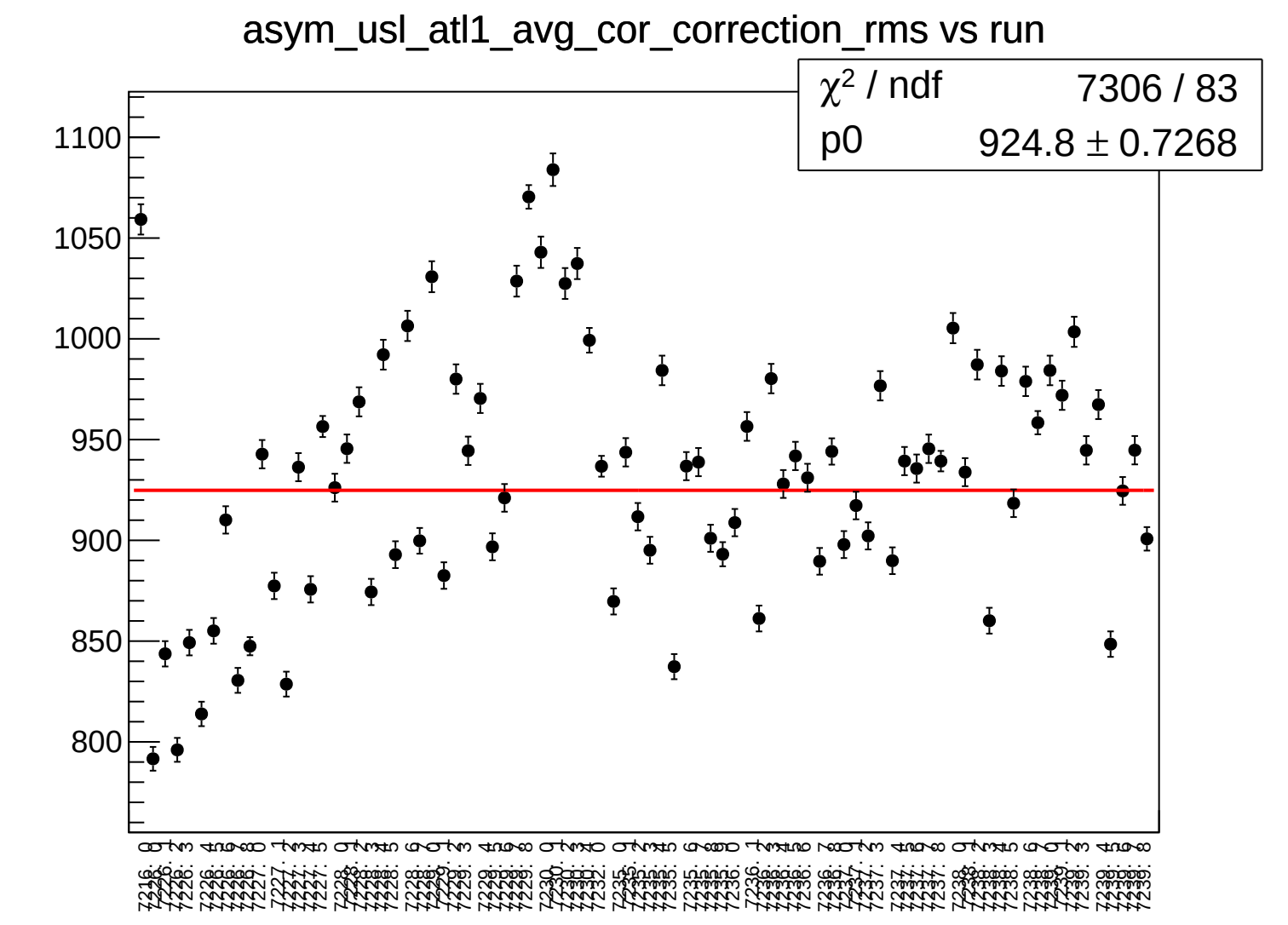

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 7310 / 83
p0 924.8 ± 0.7268
1100
1050
1000
950
900
850
800

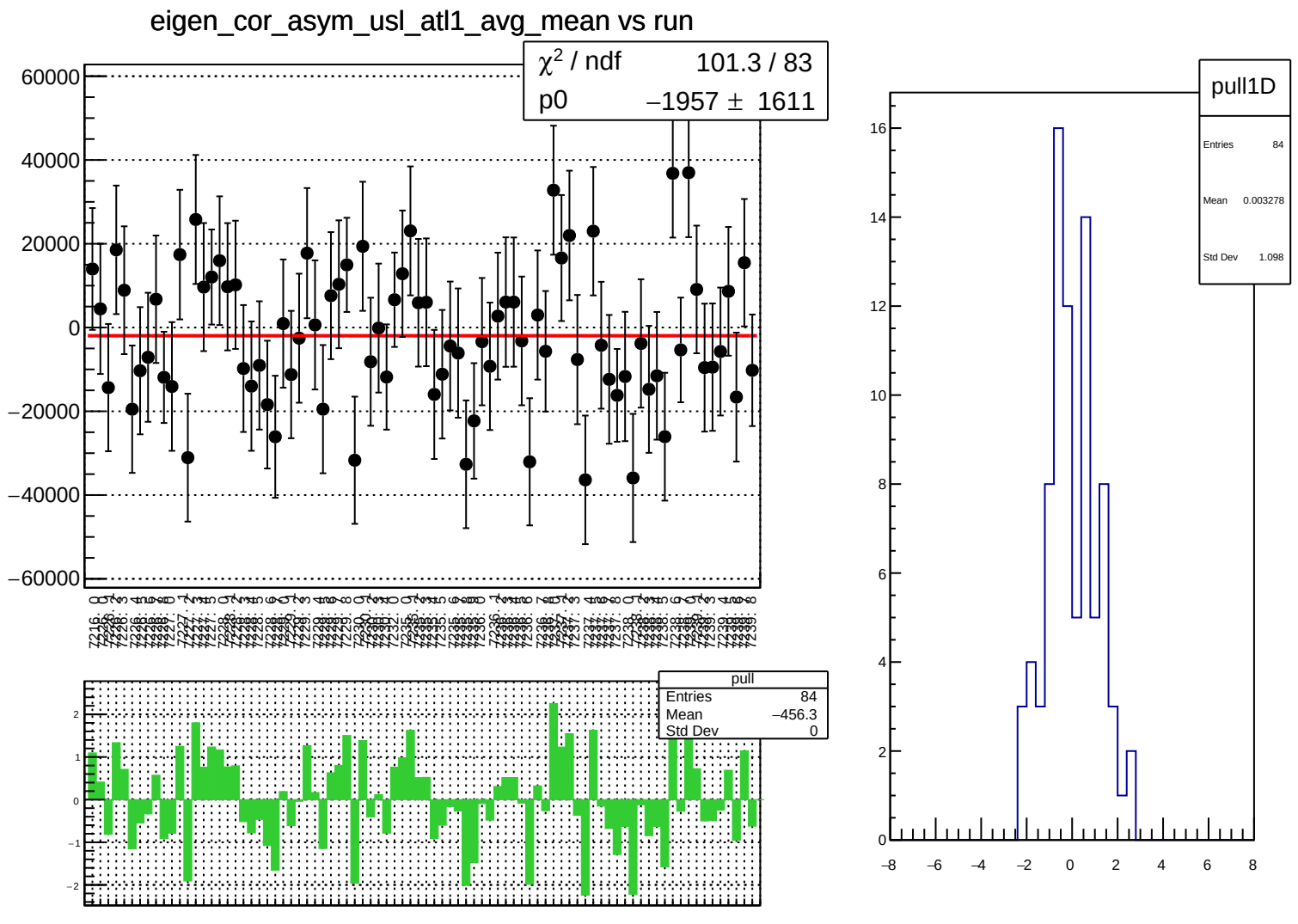

cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 101.3 / 83
p0 −1957 ± 1611
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −456.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.003278
Std Dev 1.098
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

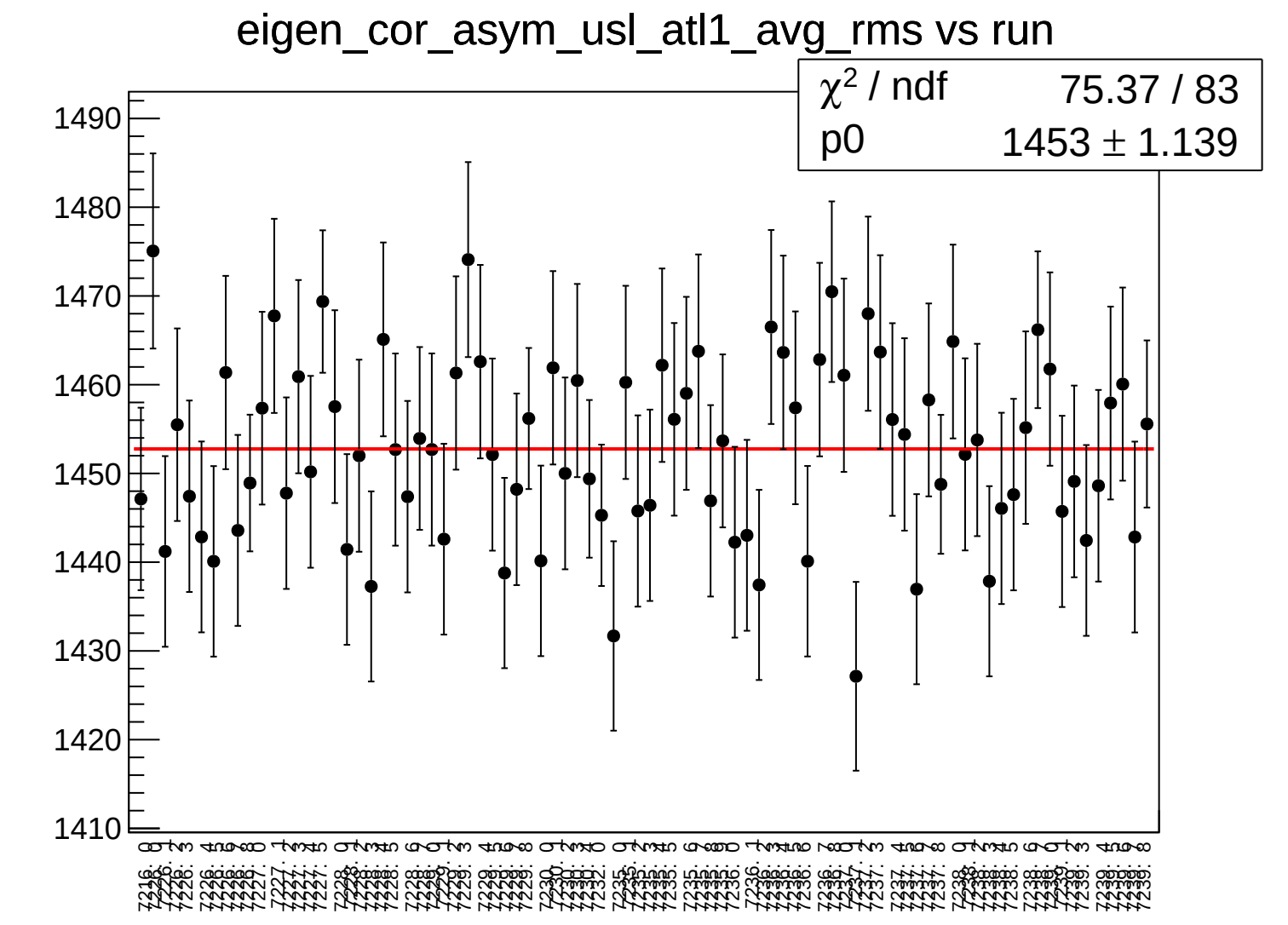

cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 75.37 / 83
p0 1453 ± 1.139
1490
1480
1470
1460
1450
1440
1430
1420
1410

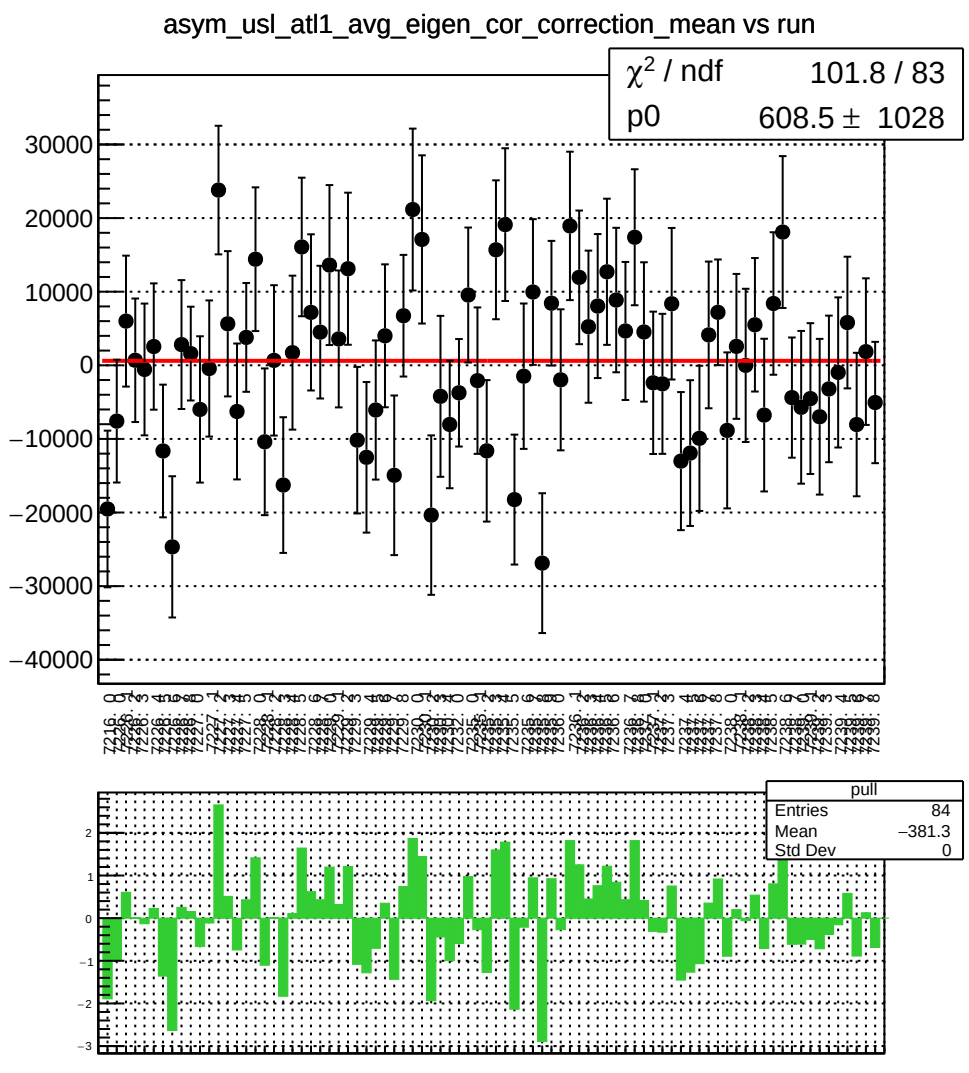

asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 101.8 / 83
p0 608.5 ± 1028
pull
Entries 84
Mean −381.3
Std Dev 0

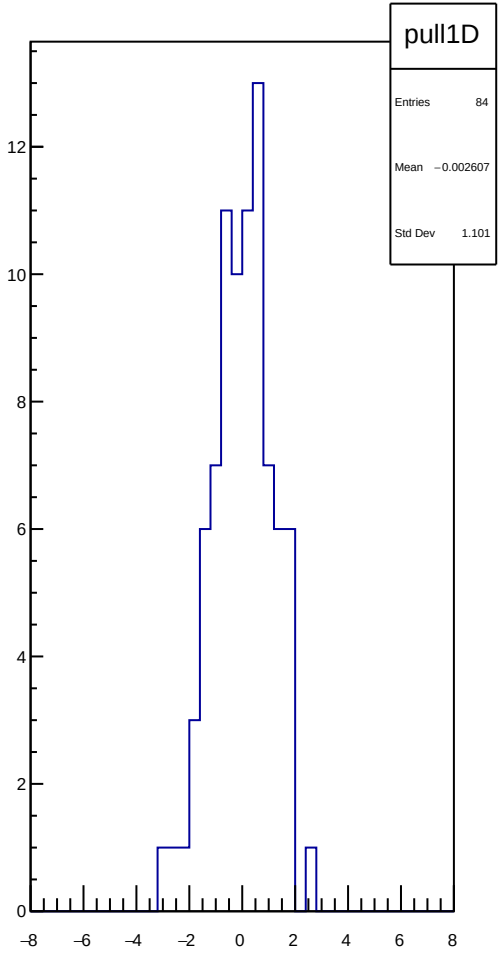

pull1D
Entries 84
Mean −0.002607
Std Dev 1.101

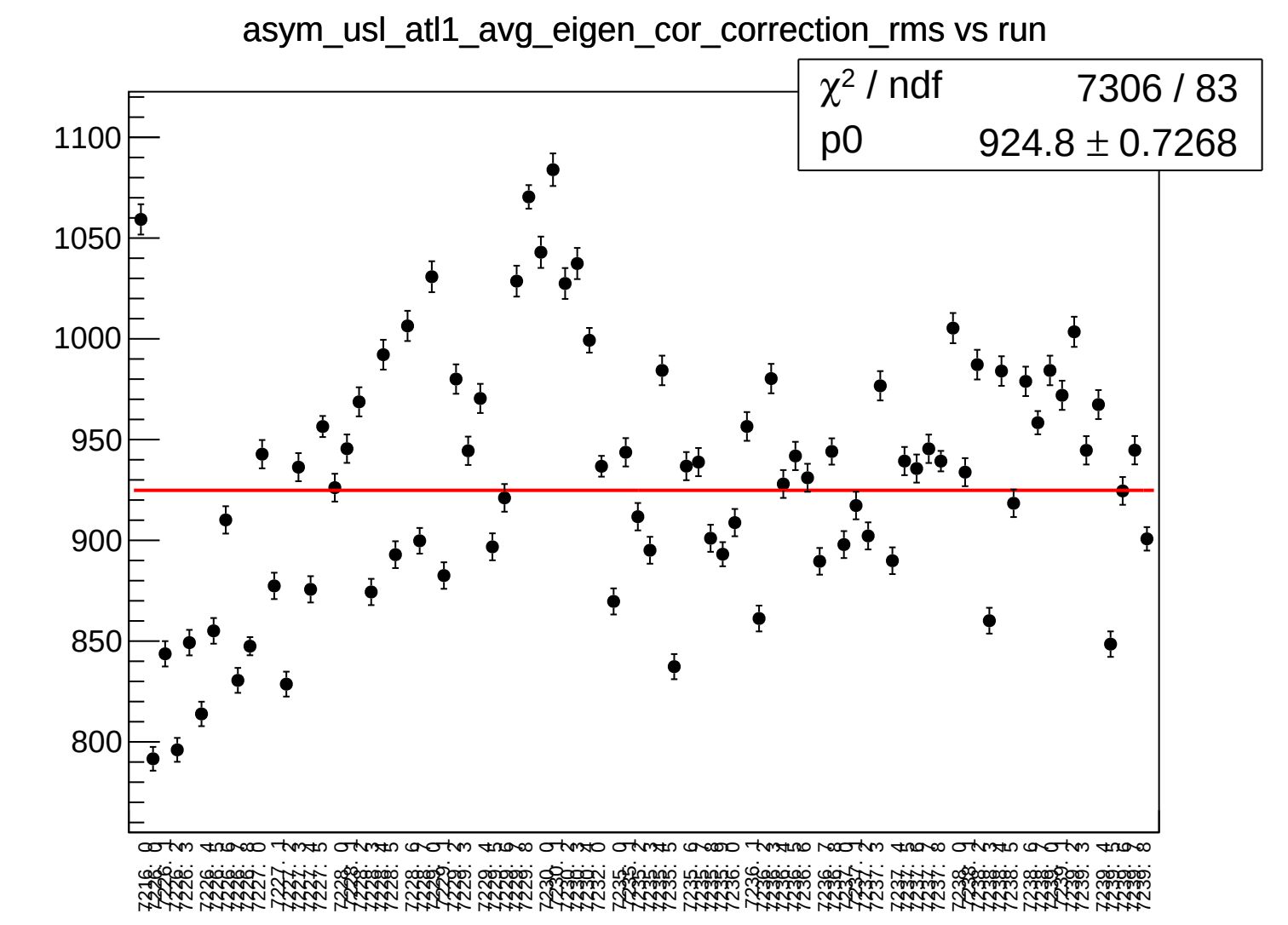

asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 7306 / 83
p0 924.8 ± 0.7268
1100
1050
1000
950
900
850
800

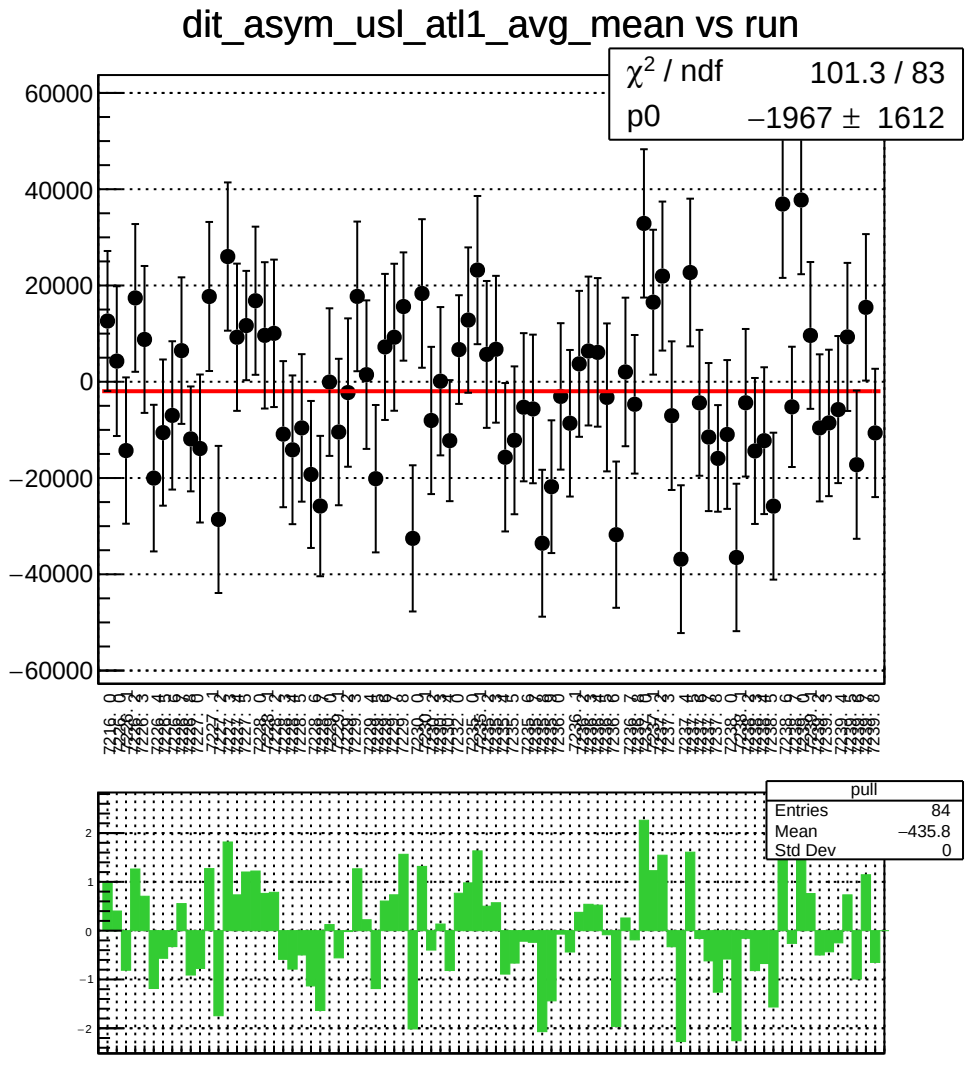

eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 101.3 / 83
p0 −1957 ± 1611
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −456.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.003278
Std Dev 1.098
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

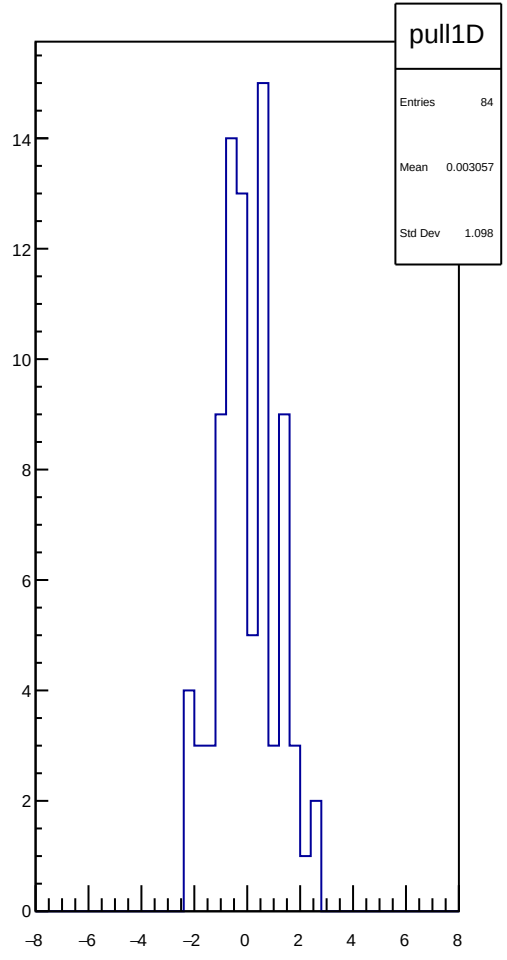

eigen_cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 75.37 / 83
p0 1453 ± 1.139
1490
1480
1470
1460
1450
1440
1430
1420
1410

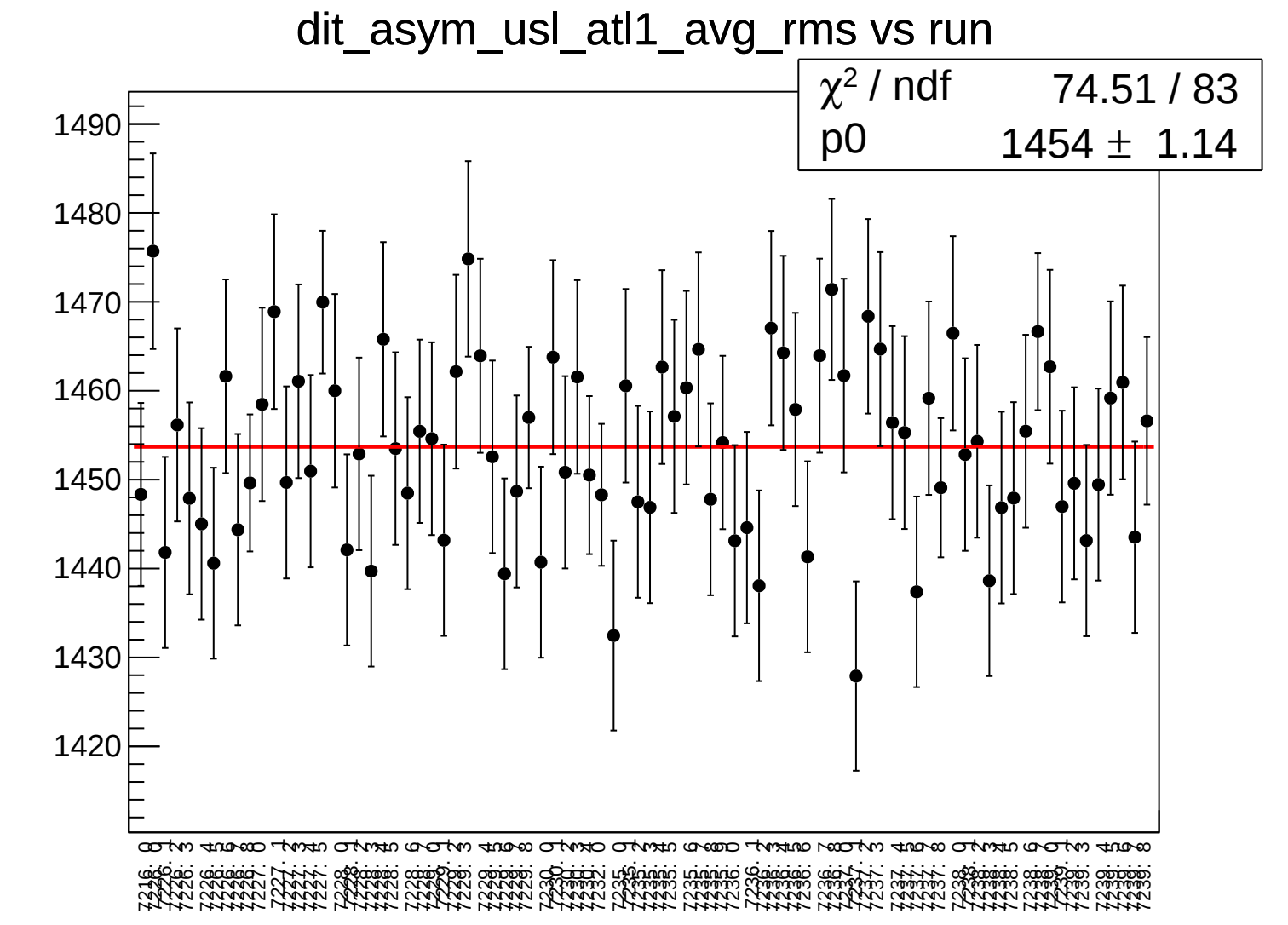

asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 101.8 / 83
p0 608.5 ± 1028
pull
Entries 84
Mean −381.3
Std Dev 0

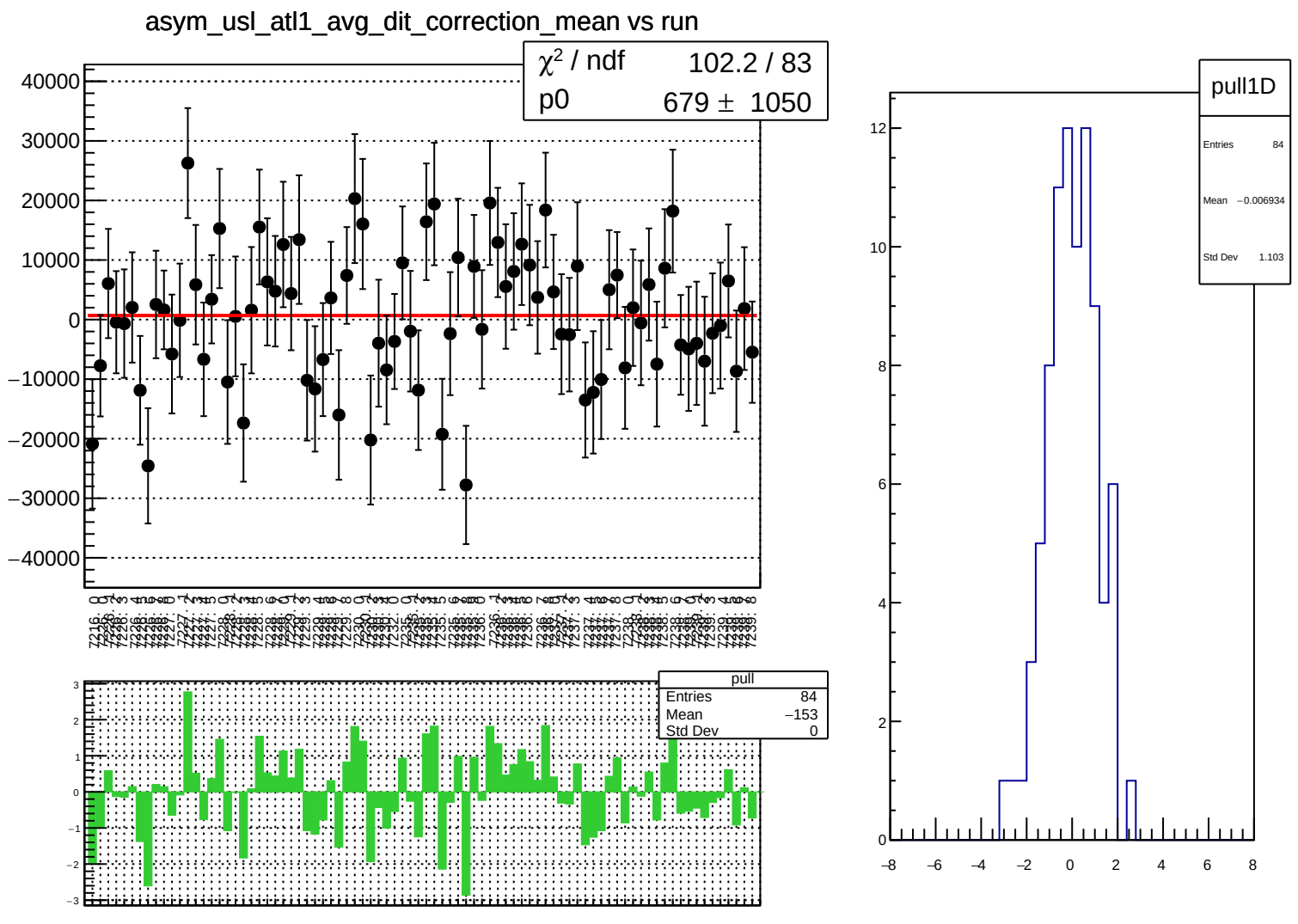

pull1D
Entries 84
Mean −0.002607
Std Dev 1.101

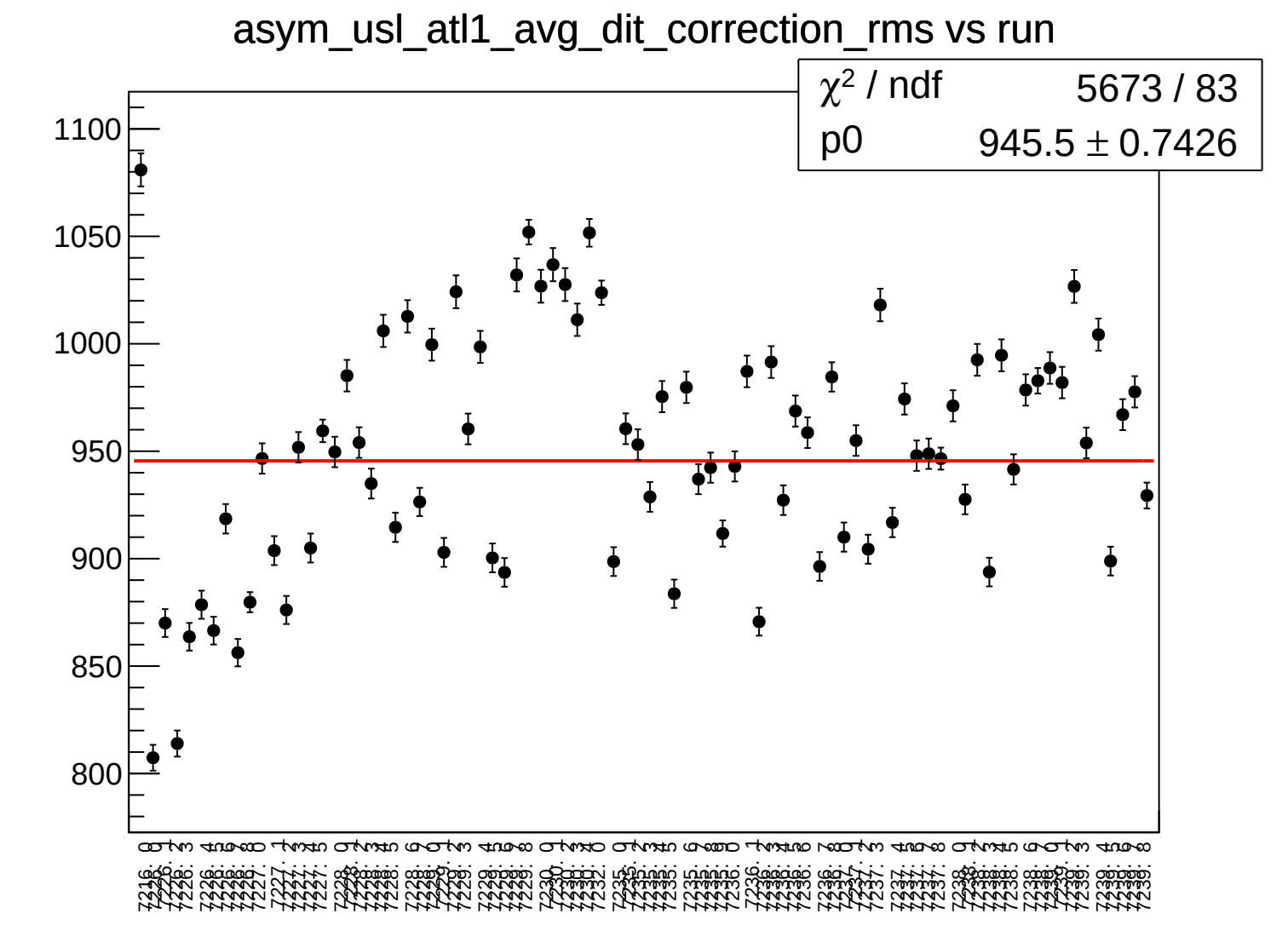

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 7306 / 83
p0 924.8 ± 0.7268
1100
1050
1000
950
900
850
800

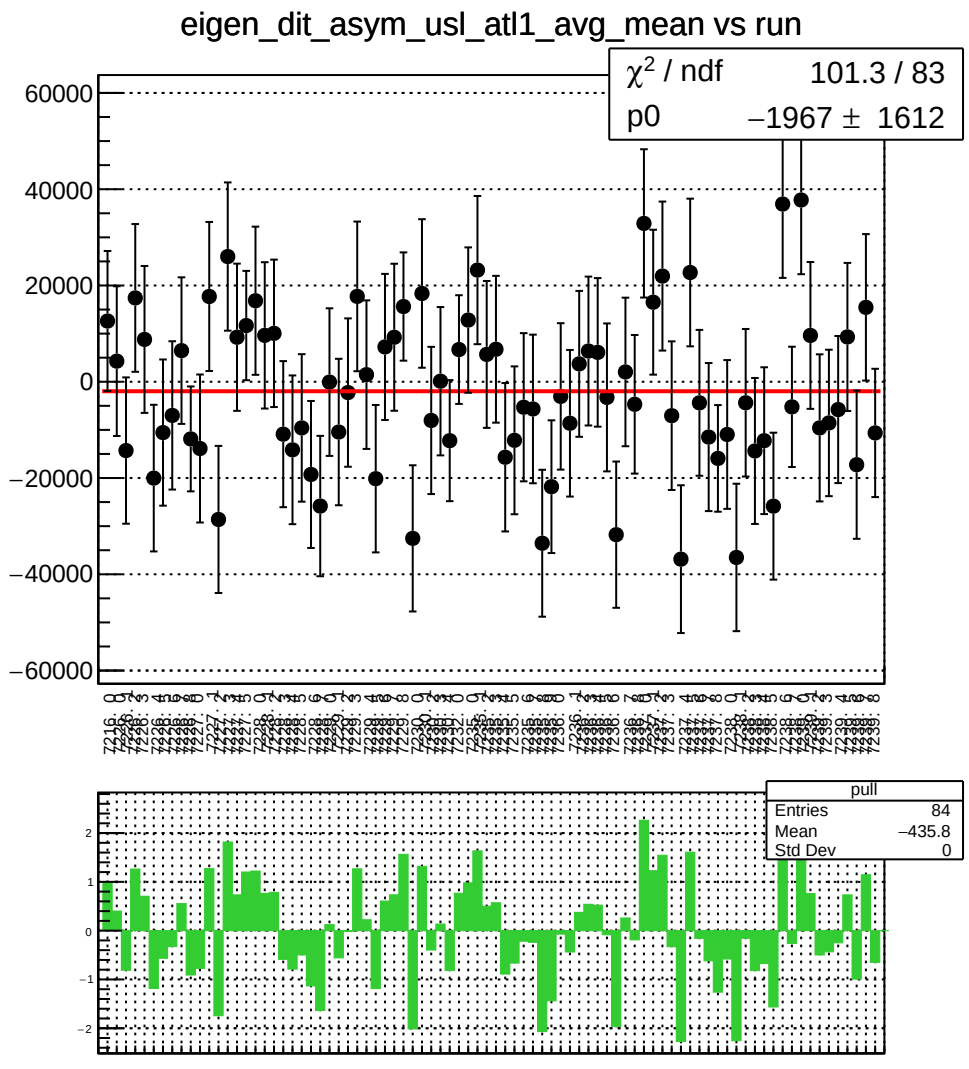

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 101.3 / 83
p0 −1967 ± 1612
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −435.8
Std Dev 0
2
1
0
−1
−2

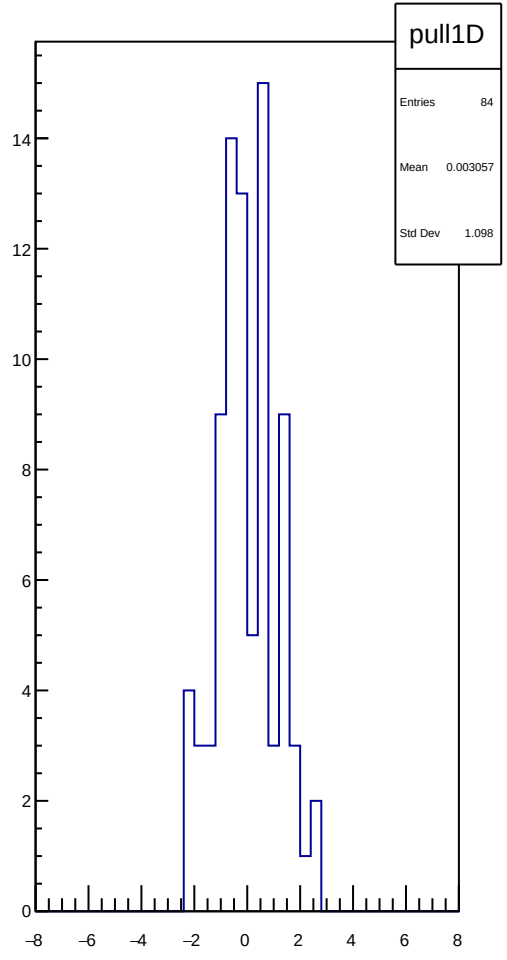

pull1D
Entries 84
Mean 0.003057
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

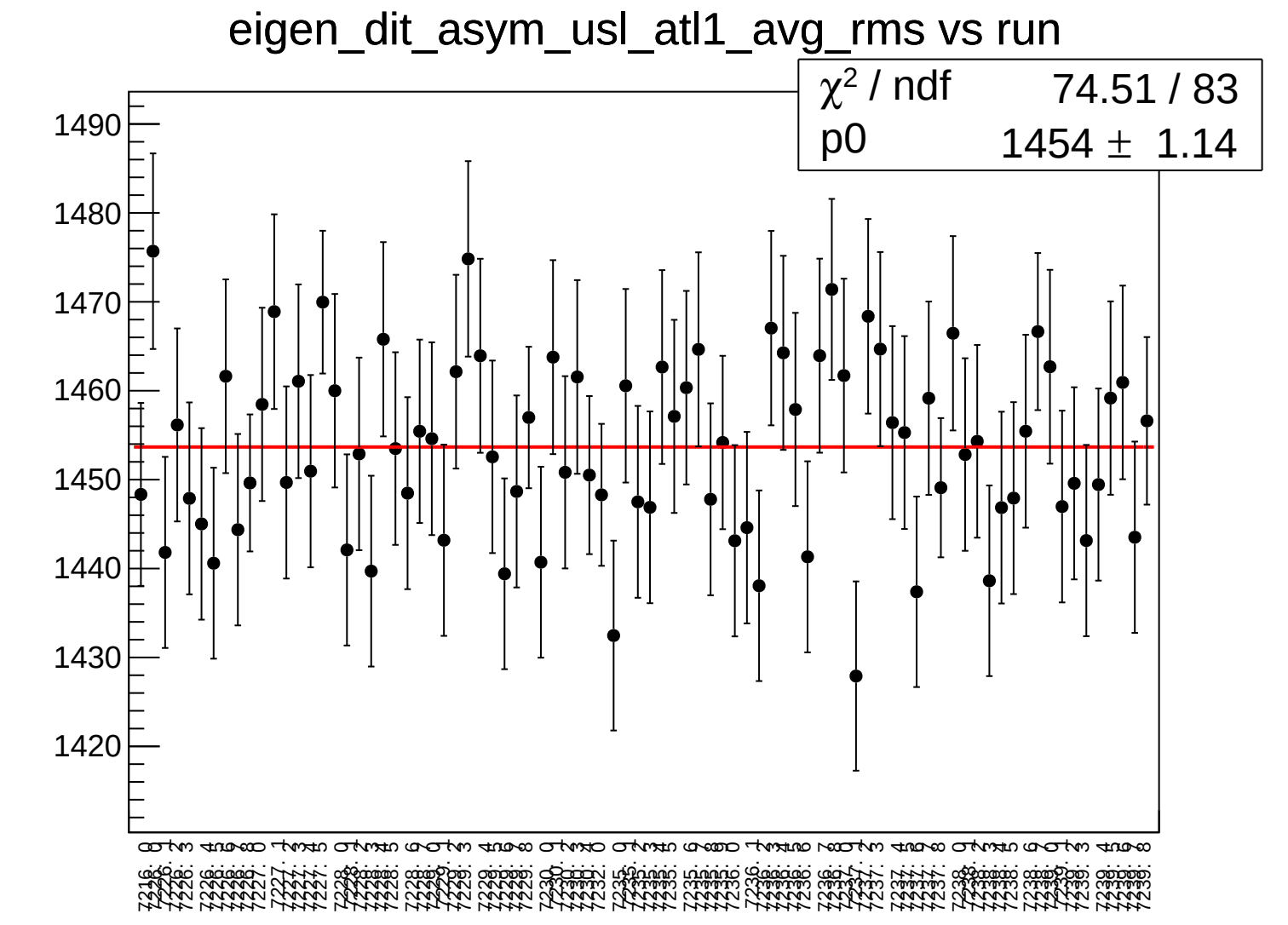

dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 74.51 / 83
p0 1454 ± 1.14
1490
1480
1470
1460
1450
1440
1430
1420

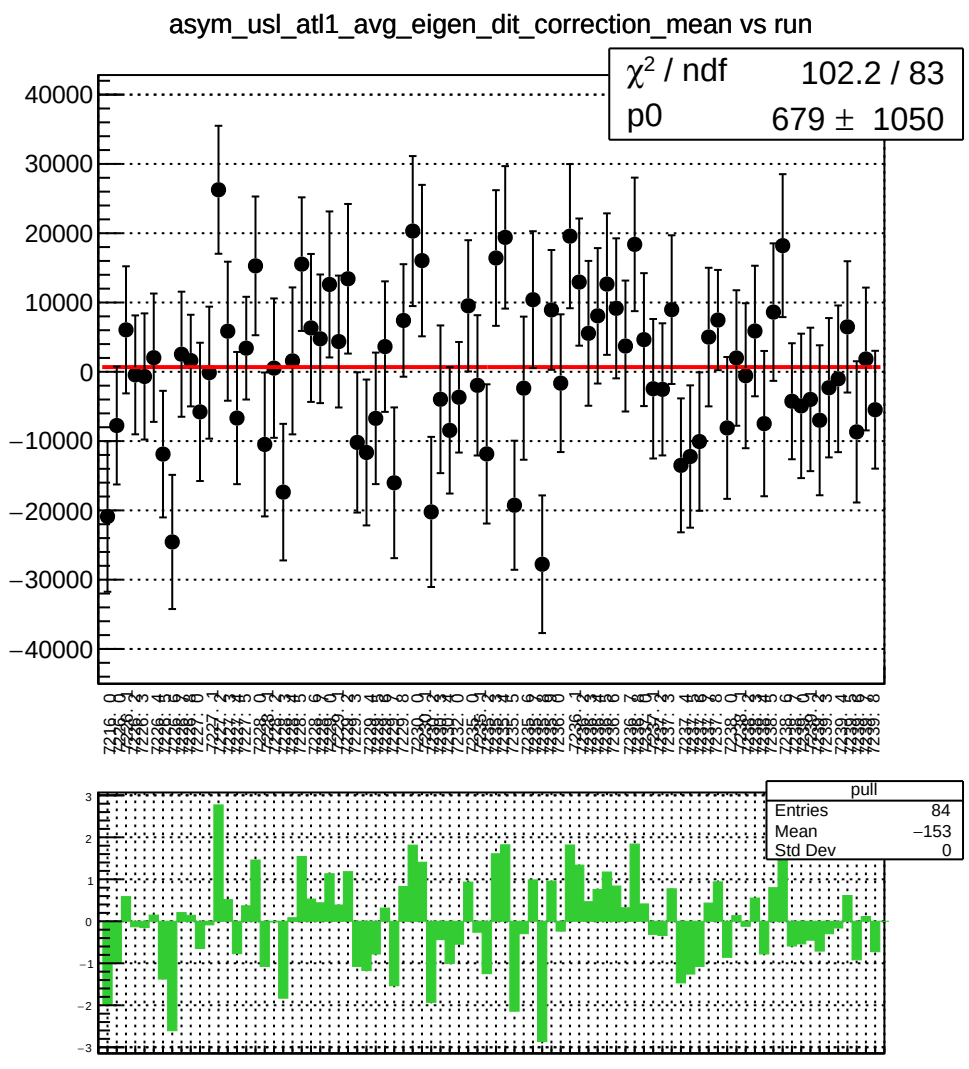

asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 102.2 / 83
p0 679 ± 1050
pull
Entries 84
Mean −153
Std Dev 0
pull1D
Entries 84
Mean −0.006934
Std Dev 1.103

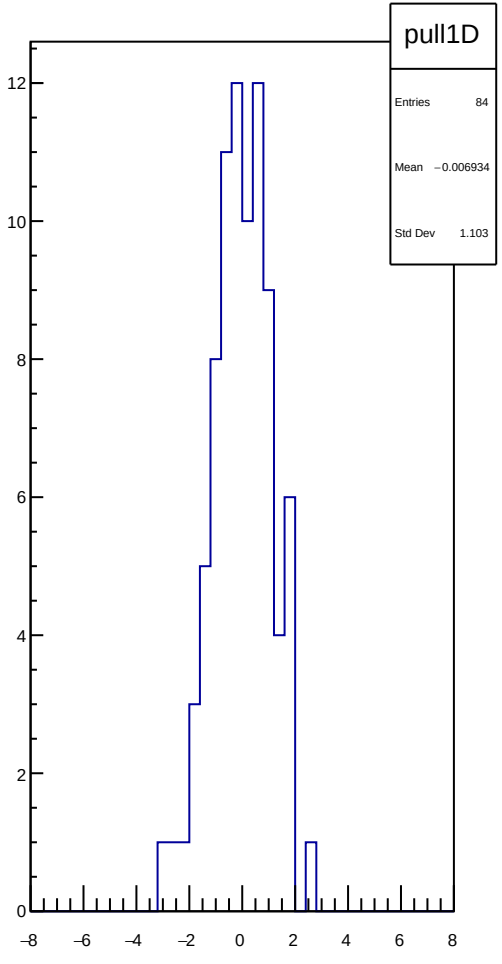

asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 5673 / 83
p0 945.5 ± 0.7426
1100
1050
1000
950
900
850
800

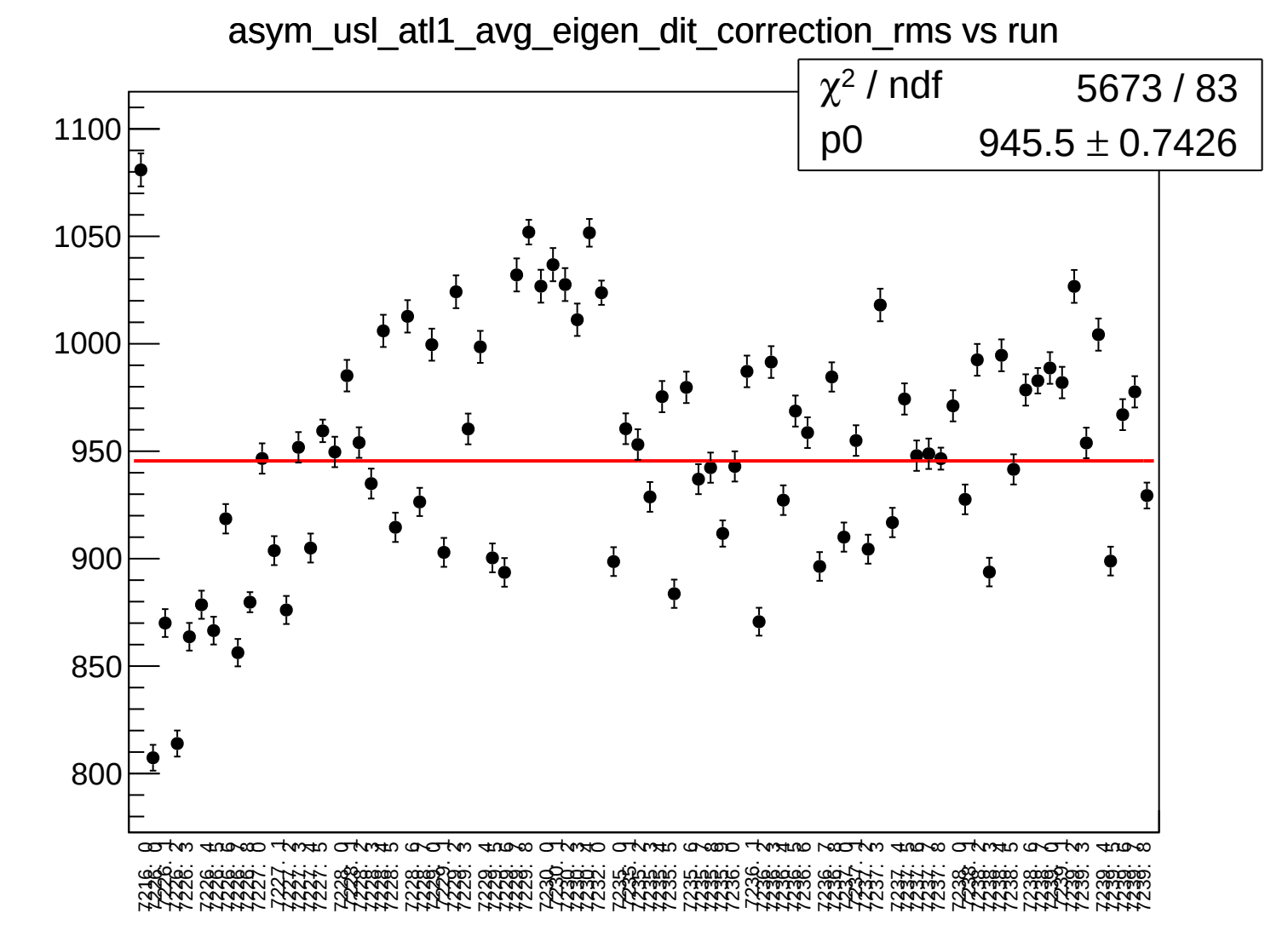

eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 101.3 / 83
p0 −1967 ± 1612
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −435.8
Std Dev 0
2
1
0
−1
−2

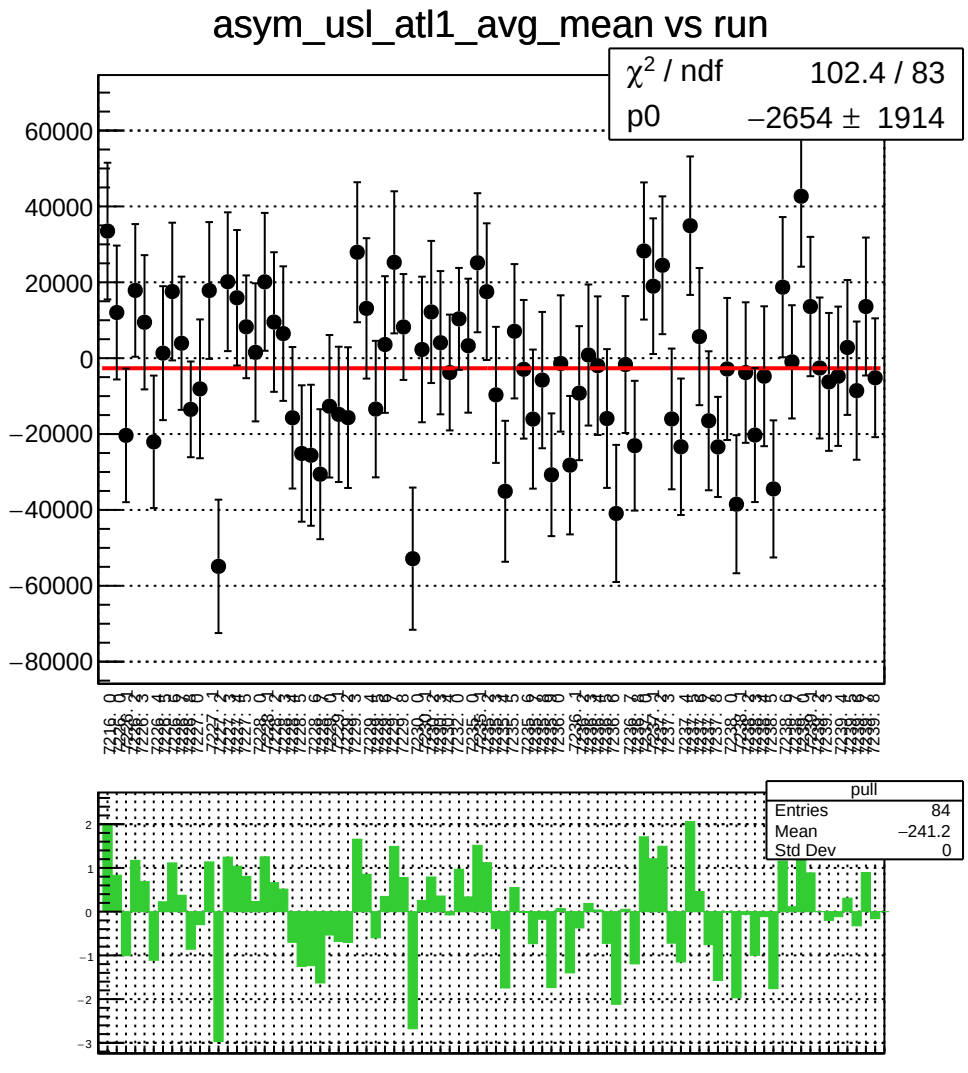

pull1D
Entries 84
Mean 0.003057
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

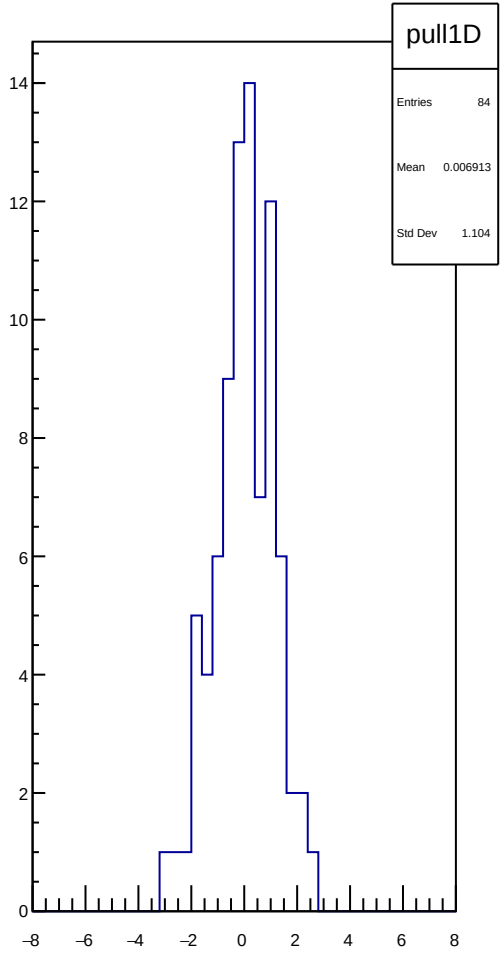

eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 74.51 / 83
p0 1454 ± 1.14
1490
1480
1470
1460
1450
1440
1430
1420

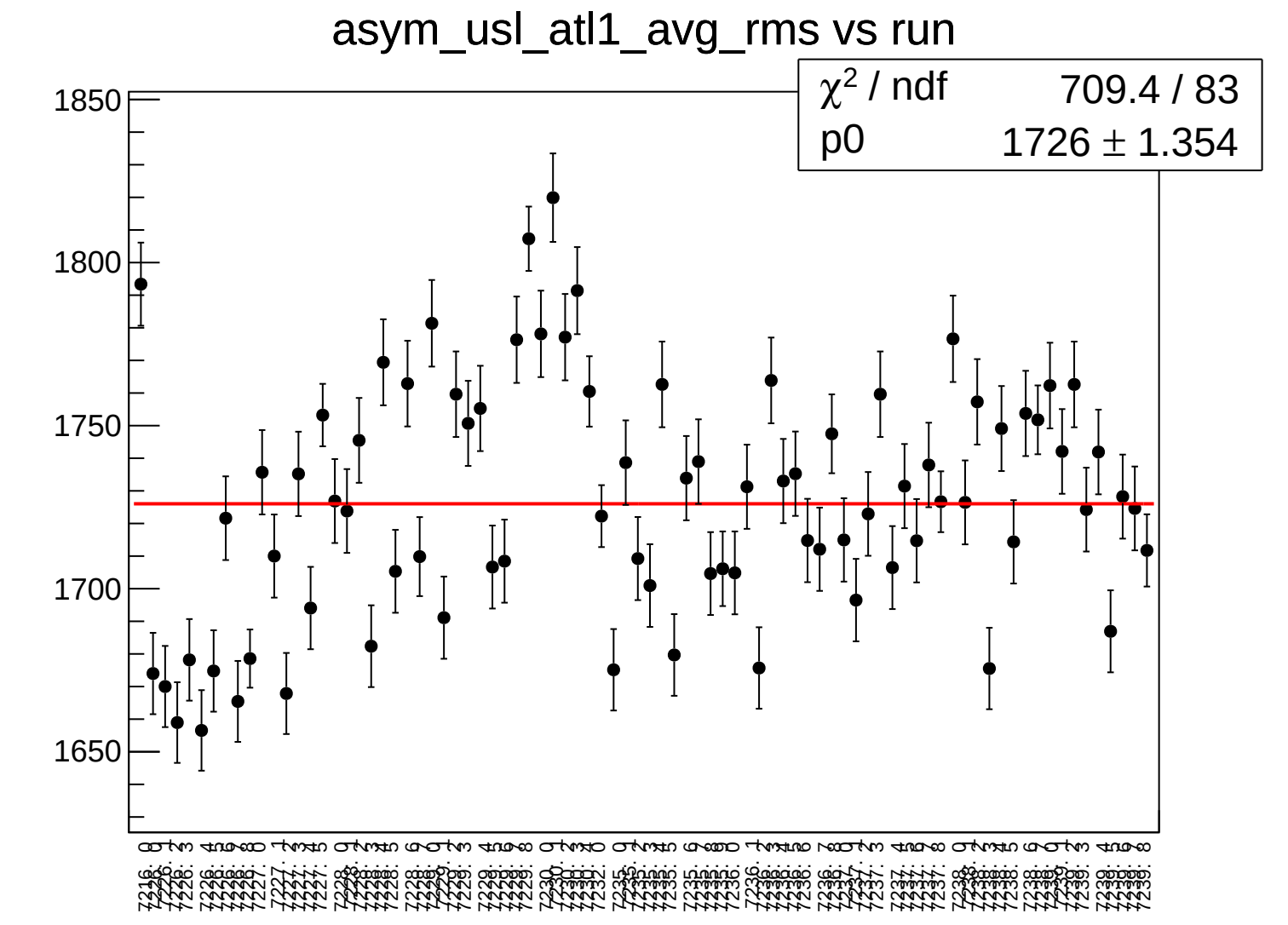

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 102.2 / 83
p0 679 ± 1050
pull
Entries 84
Mean −153
Std Dev 0

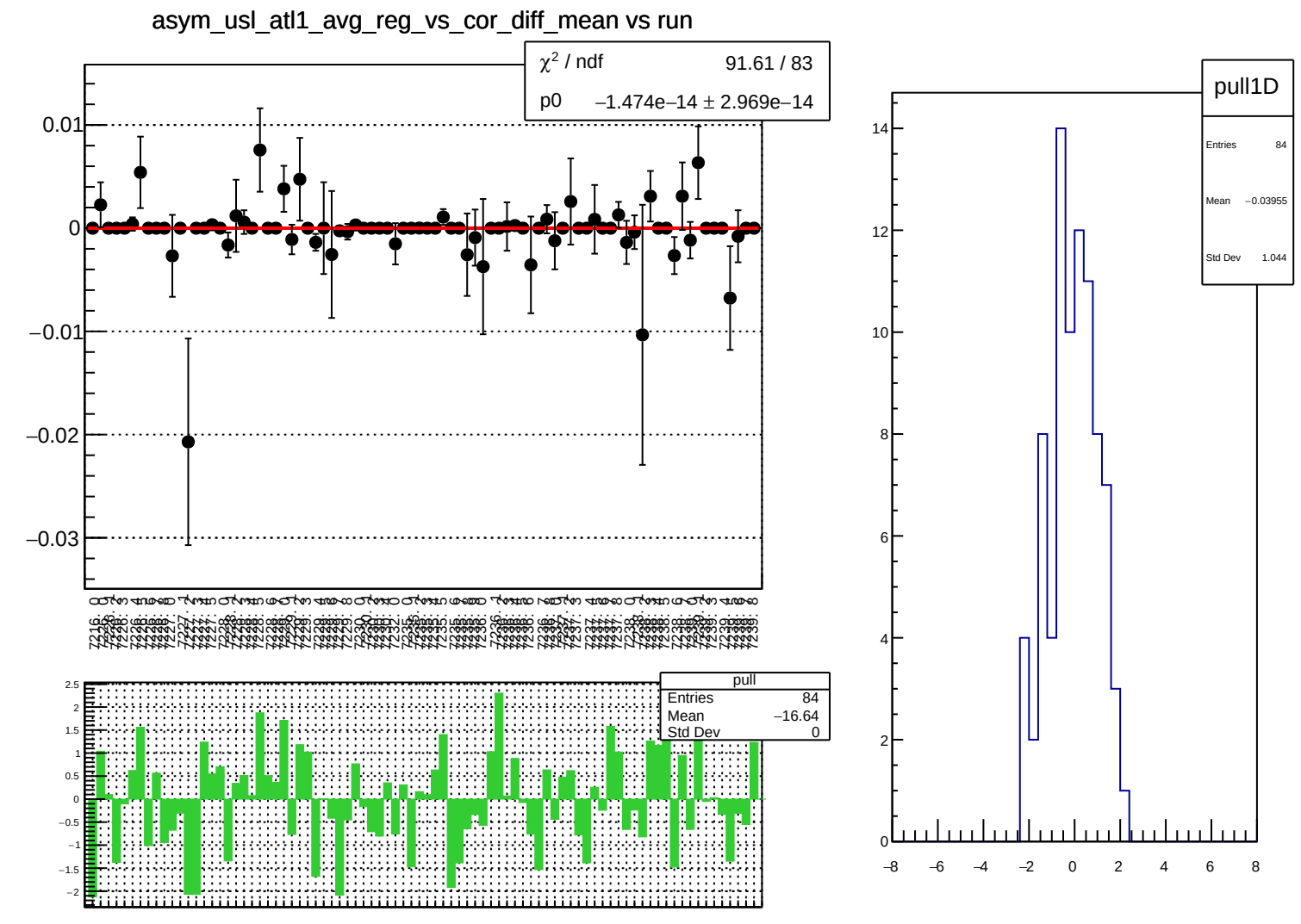

pull1D
Entries 84
Mean −0.006934
Std Dev 1.103

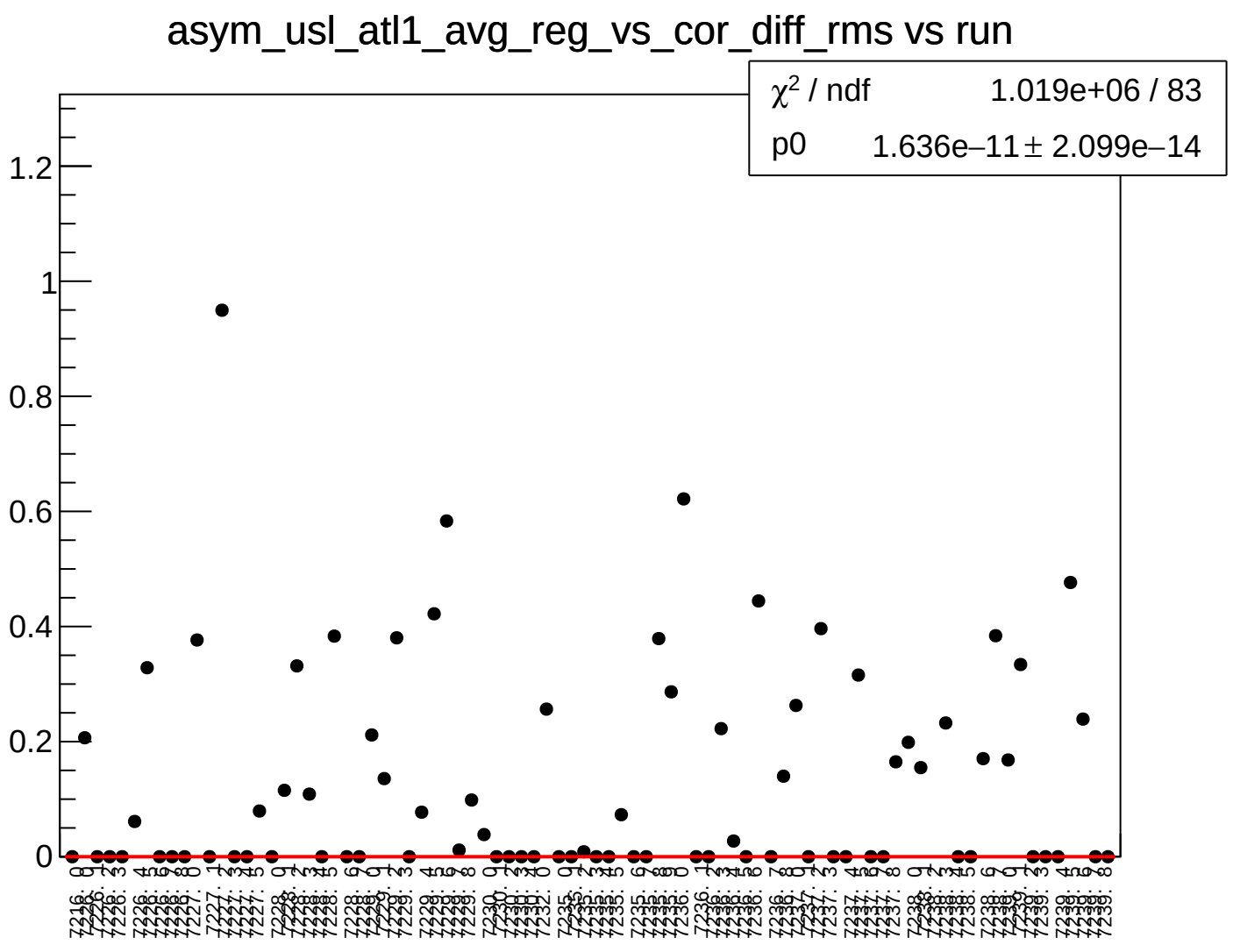

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 5673 / 83
p0 945.5 ± 0.7426
1100
1050
1000
950
900
850
800

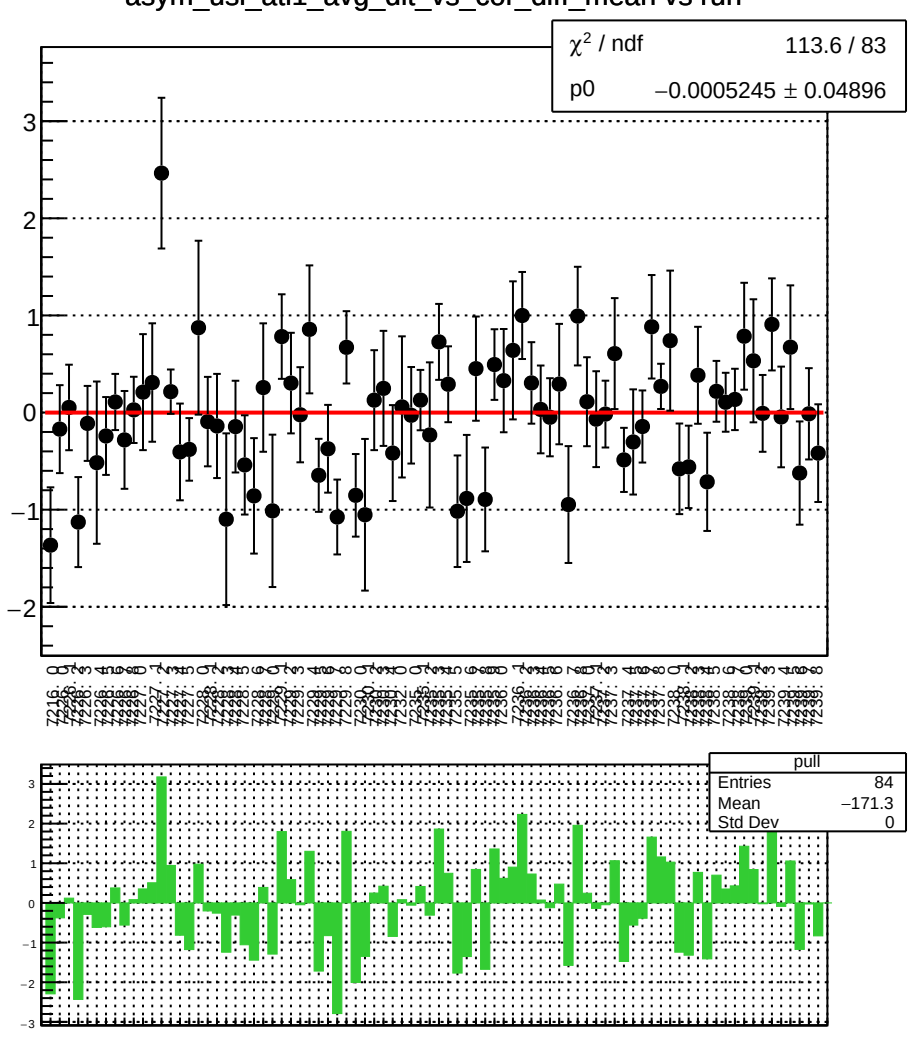

asym_usl_atl1_avg_mean vs run
χ² / ndf 102.4 / 83
p0 −2654 ± 1914
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean −241.2
Std Dev 0
2
1
0
−1
−2
−3

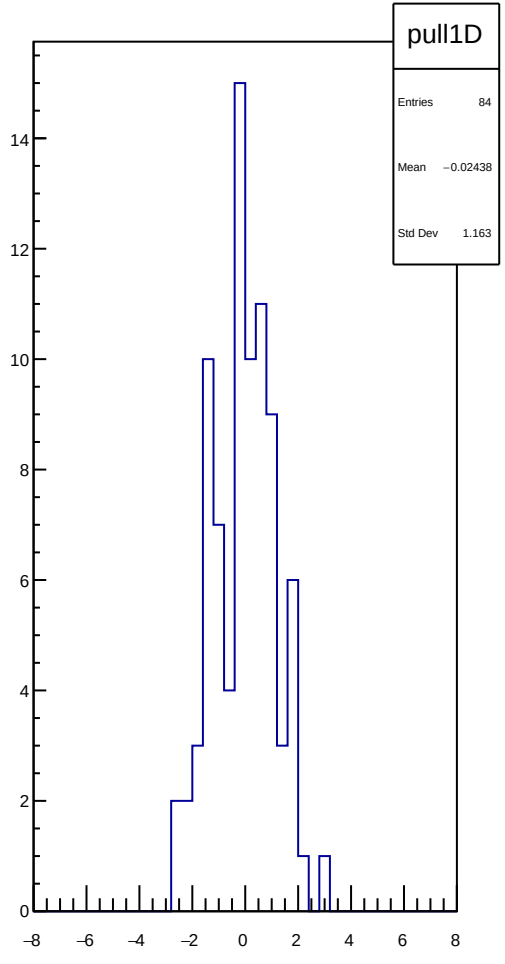

pull1D
Entries 84
Mean 0.006913
Std Dev 1.104
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

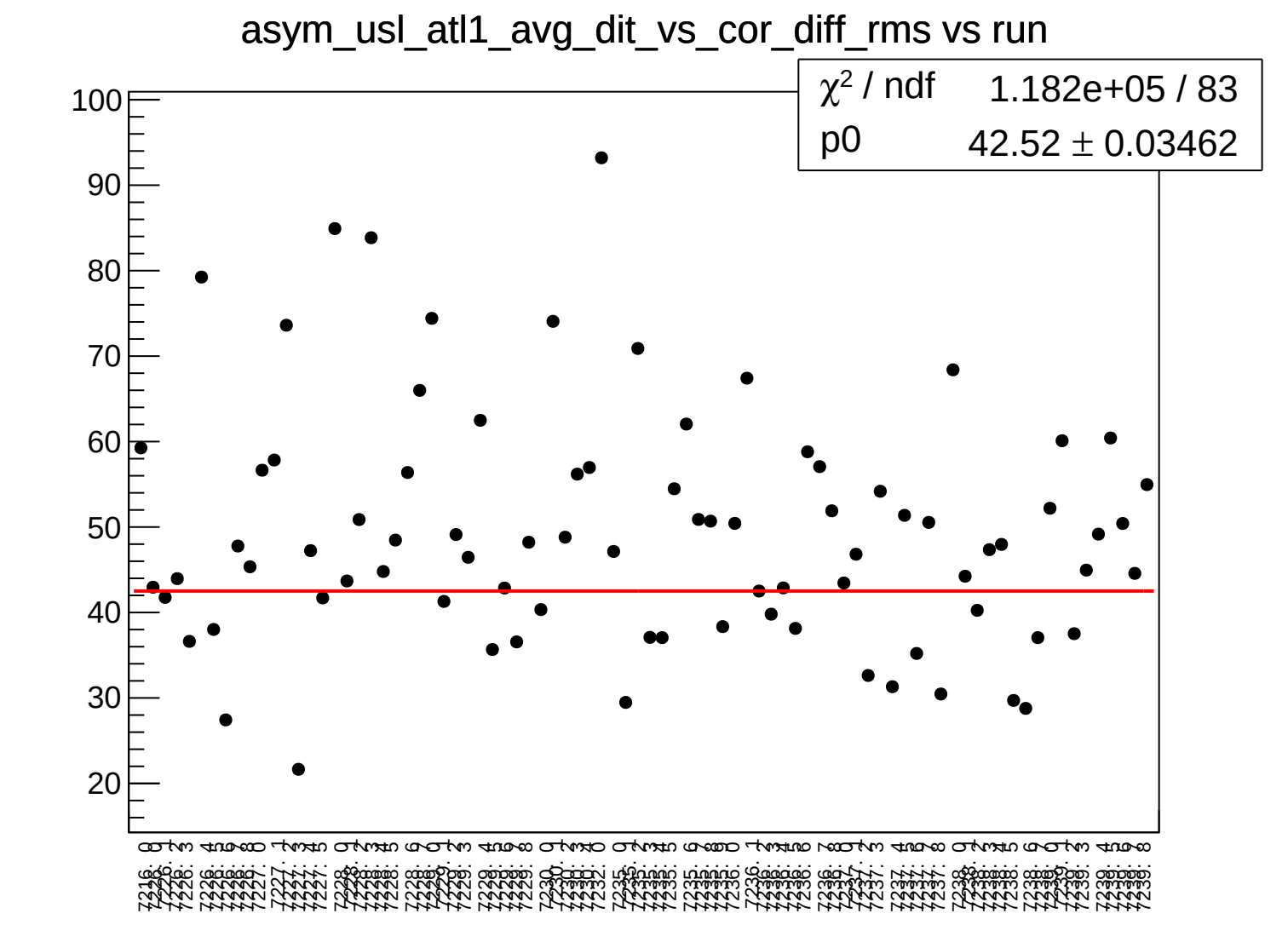

asym_usl_atl1_avg_rms vs run
χ² / ndf 709.4 / 83
p0 1726 ± 1.354
1850
1800
1750
1700
1650

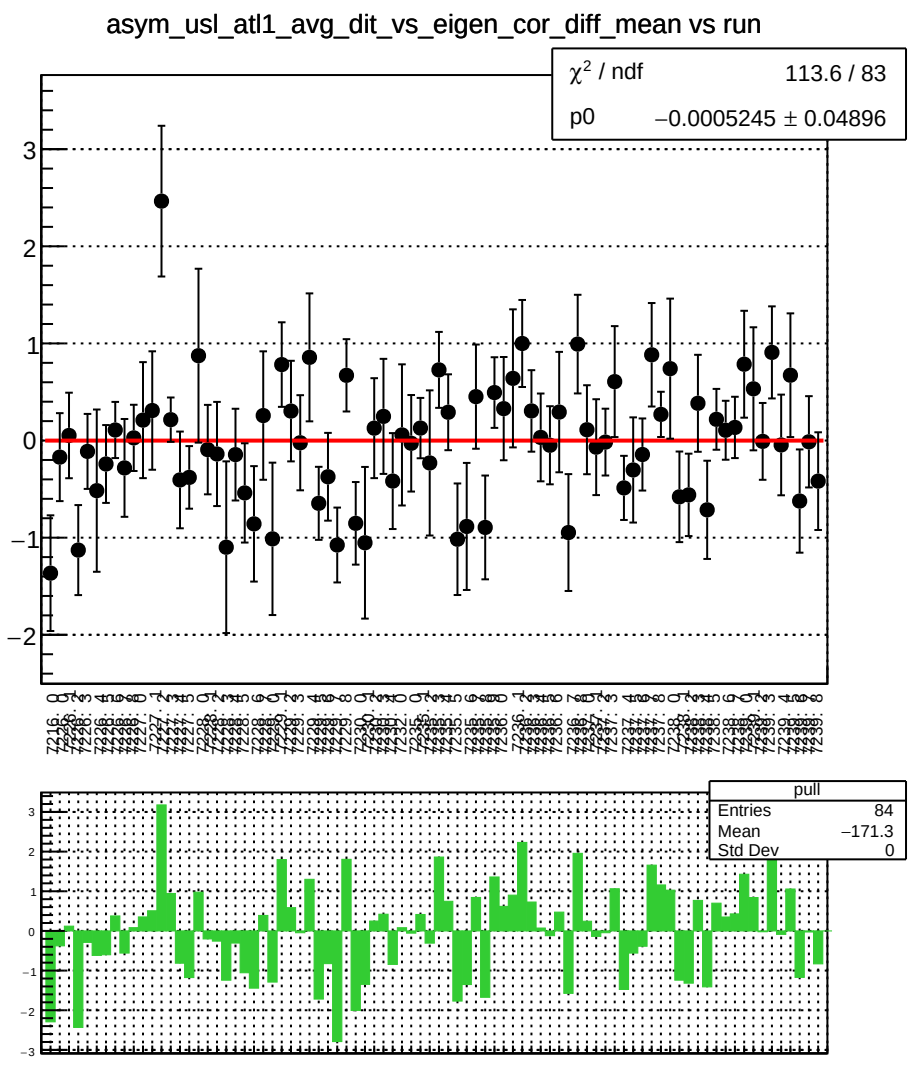

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 91.61 / 83
p0 −1.474e−14 ± 2.969e−14
0.01
0
−0.01
−0.02
−0.03
pull
Entries 84
Mean −16.64
Std Dev 0
pull1D
Entries 84
Mean −0.03955
Std Dev 1.044

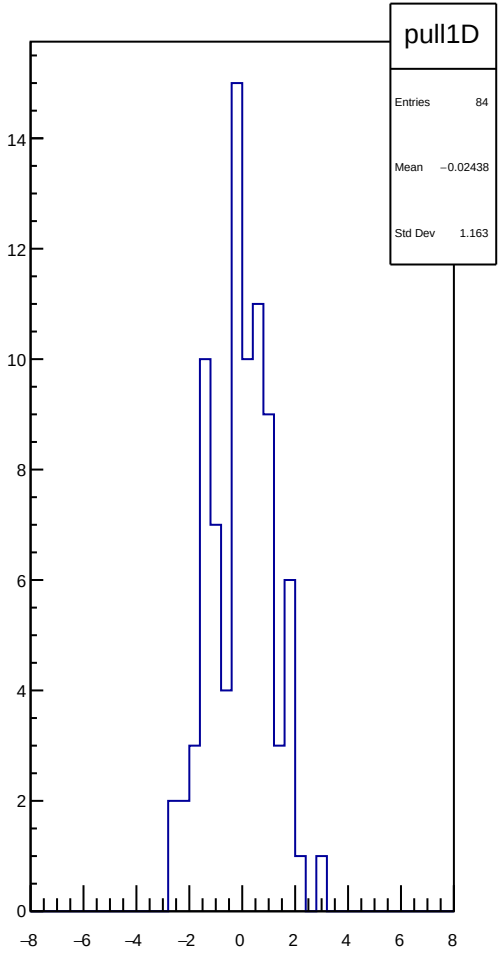

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.019e+06 / 83
p0 1.636e−11 ± 2.099e−14
1.2
1
0.8
0.6
0.4
0.2
0

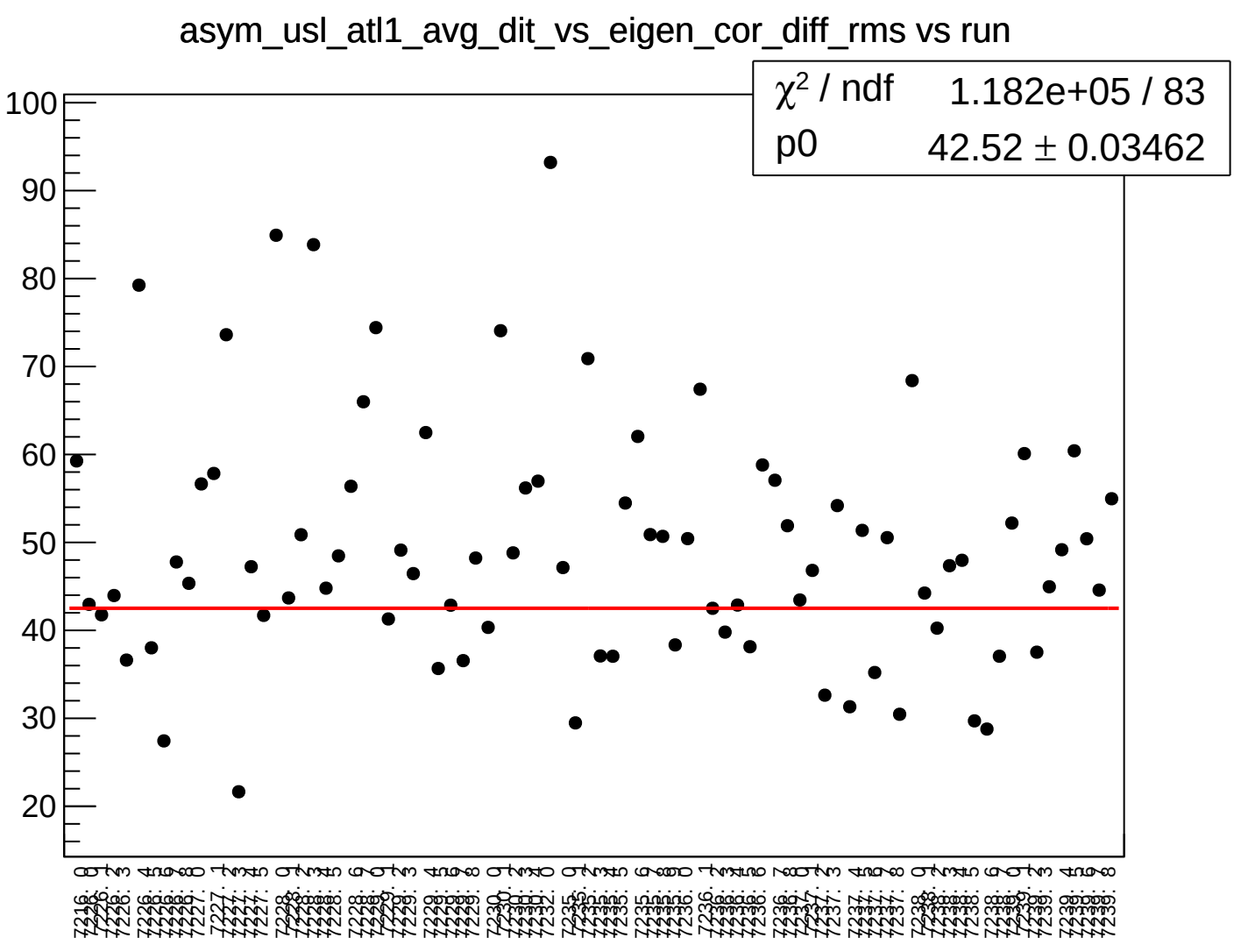

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 113.6 / 83
p0 −0.0005245 ± 0.04896
pull
Entries 84
Mean −171.3
Std Dev 0

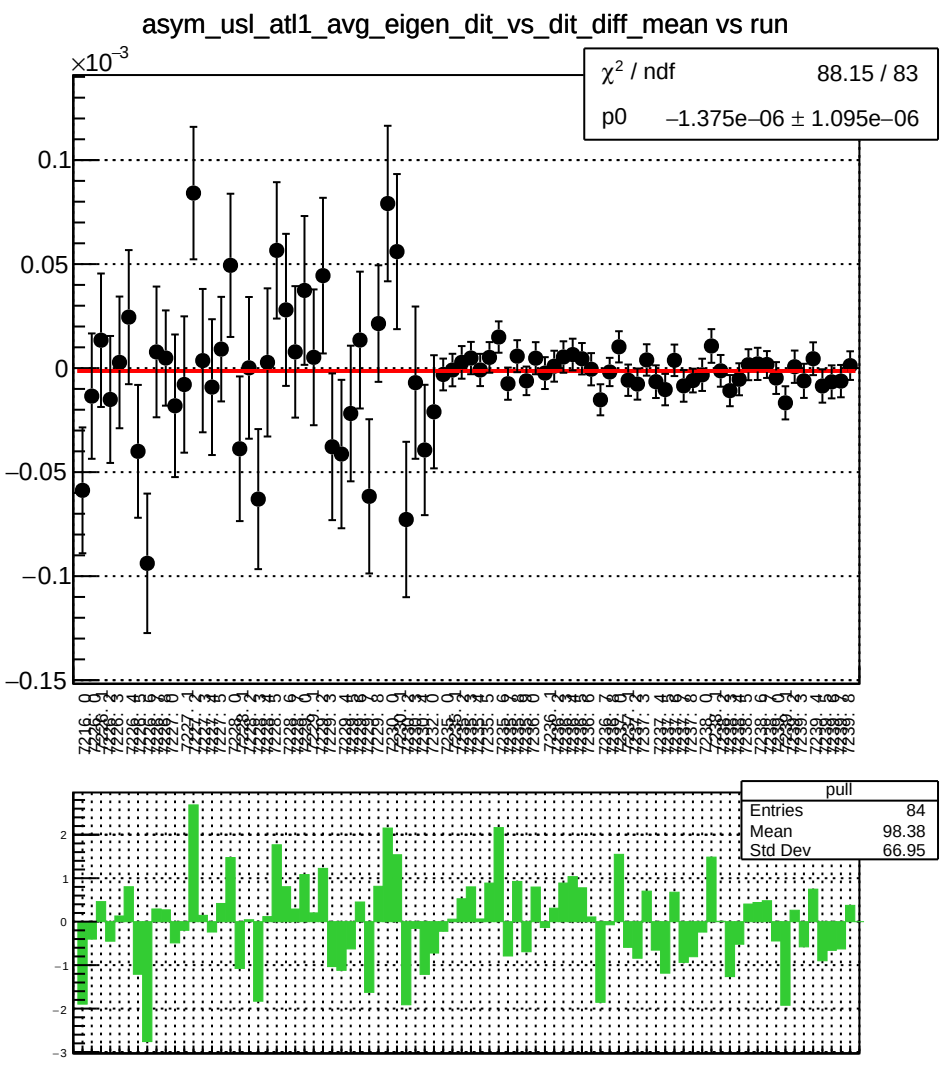

pull1D
Entries 84
Mean −0.02438
Std Dev 1.163

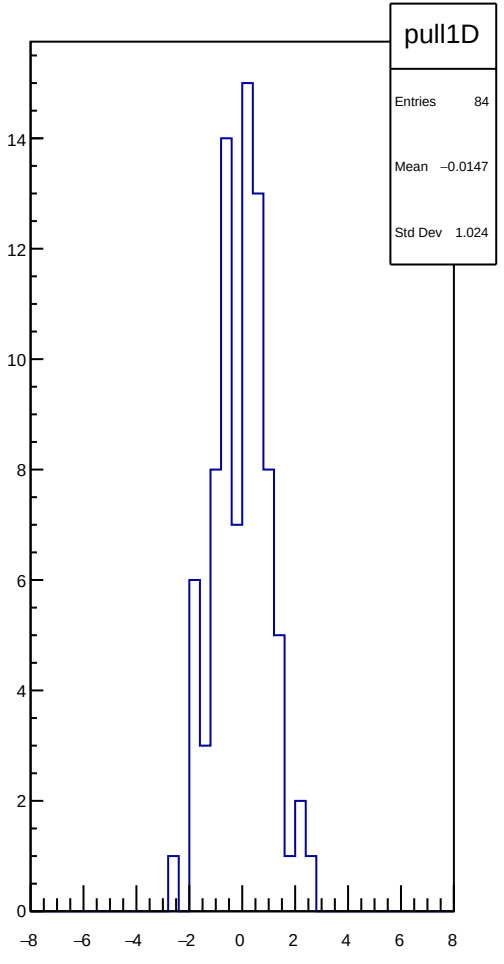

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.182e+05 / 83
p0 42.52 ± 0.03462
100
90
80
70
60
50
40
30
20

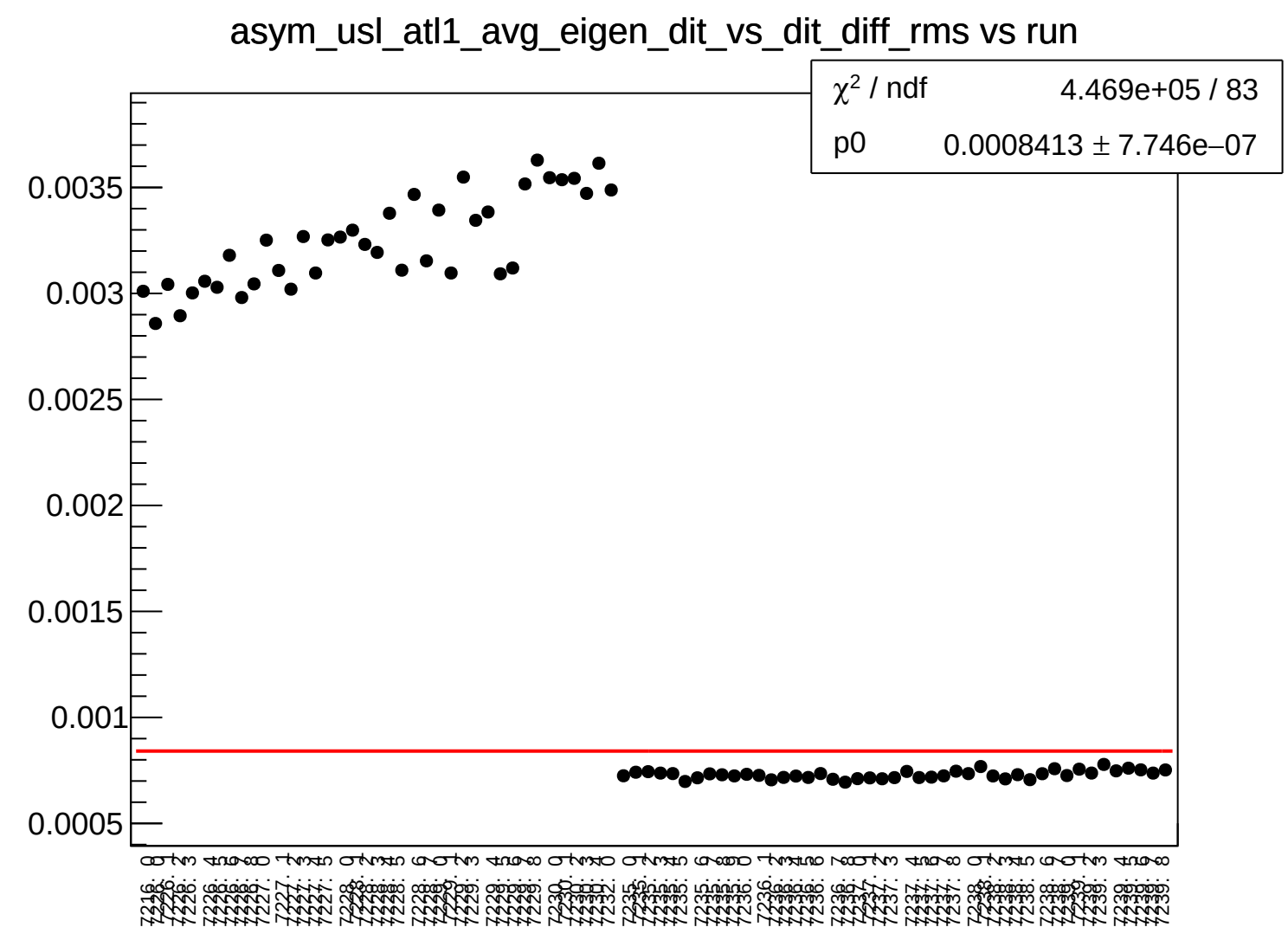

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.6 / 83
p0 −0.0005245 ± 0.04896
pull
Entries 84
Mean −171.3
Std Dev 0

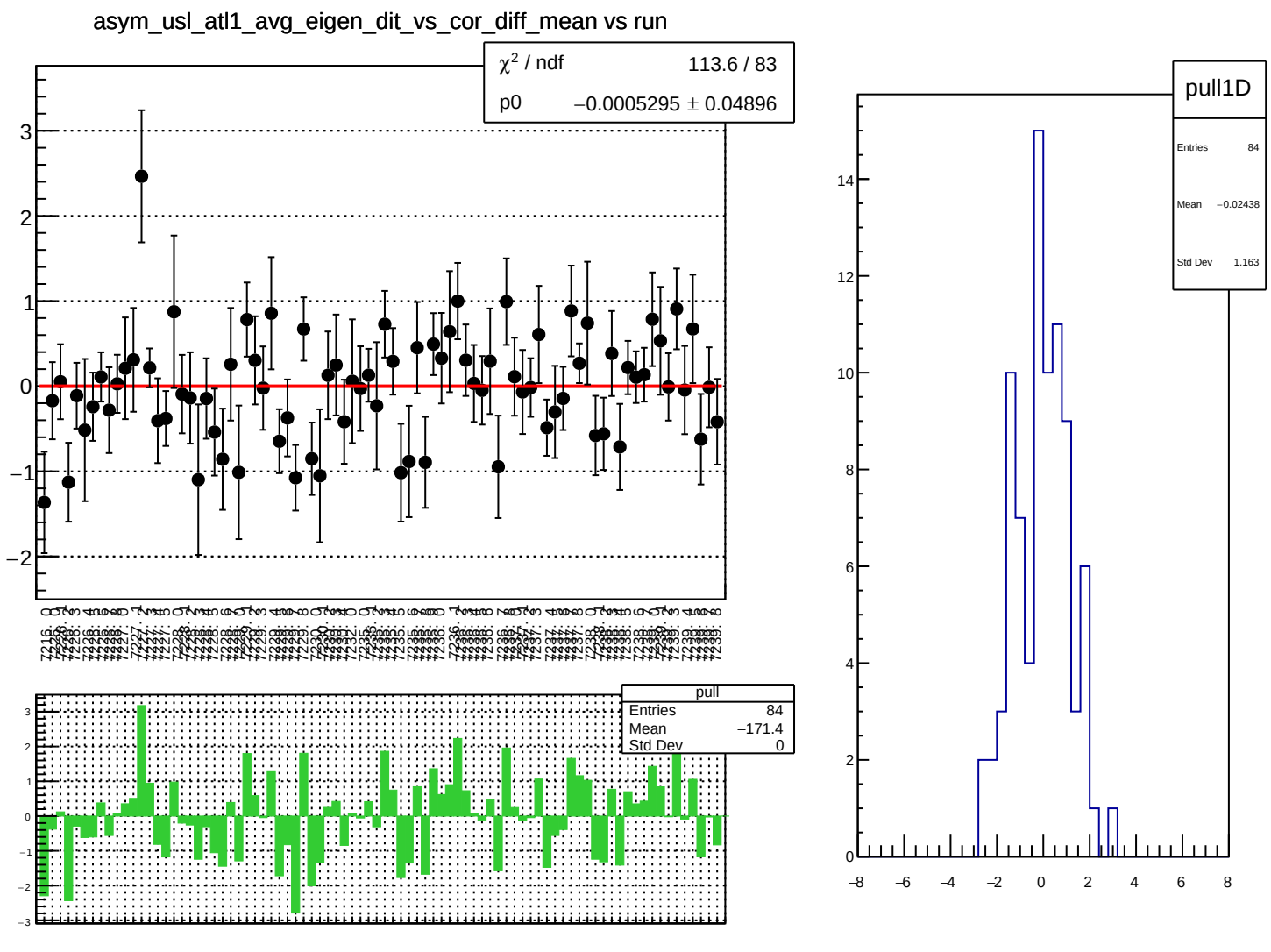

pull1D
Entries 84
Mean −0.02438
Std Dev 1.163

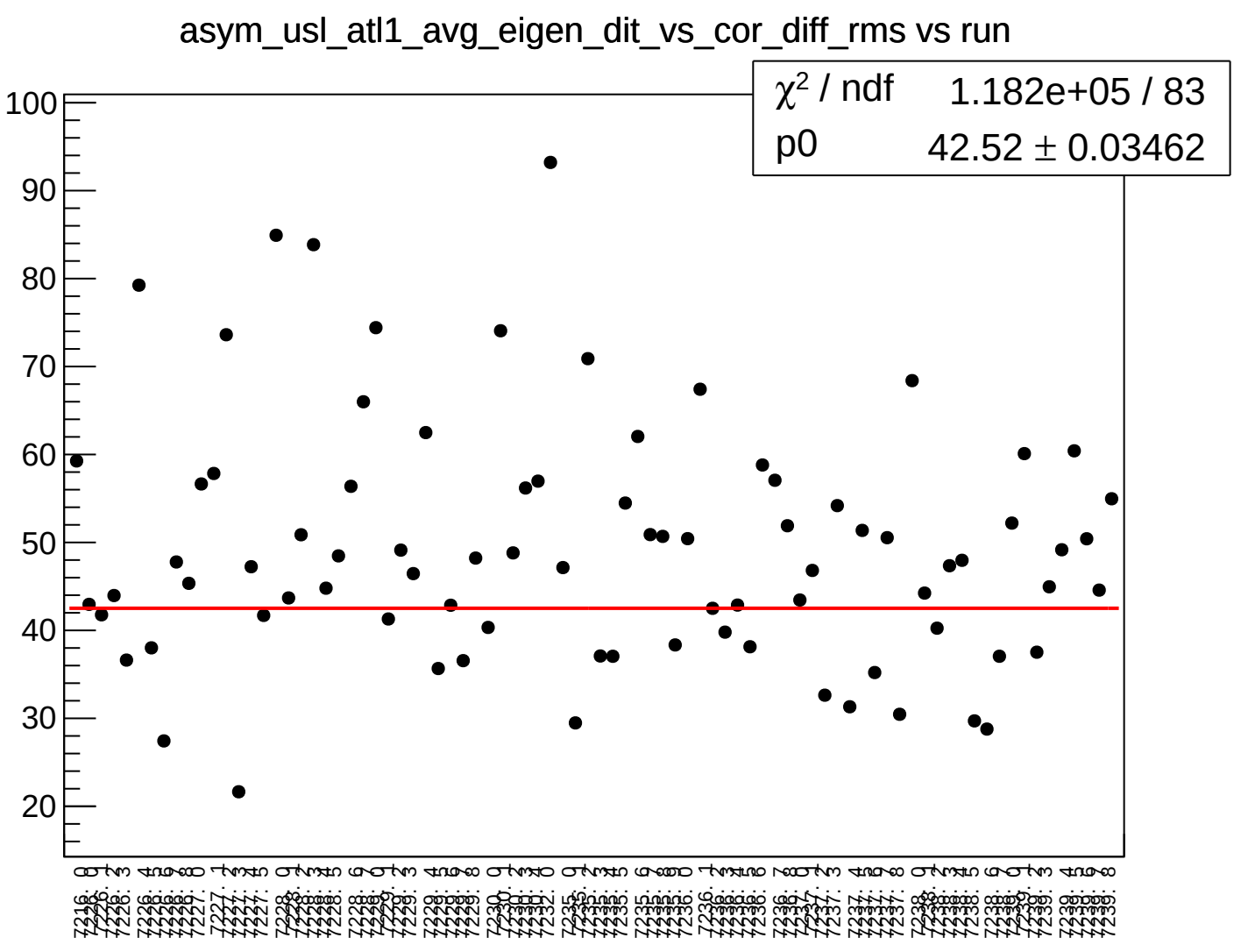

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.182e+05 / 83
p0 42.52 ± 0.03462
100
90
80
70
60
50
40
30
20

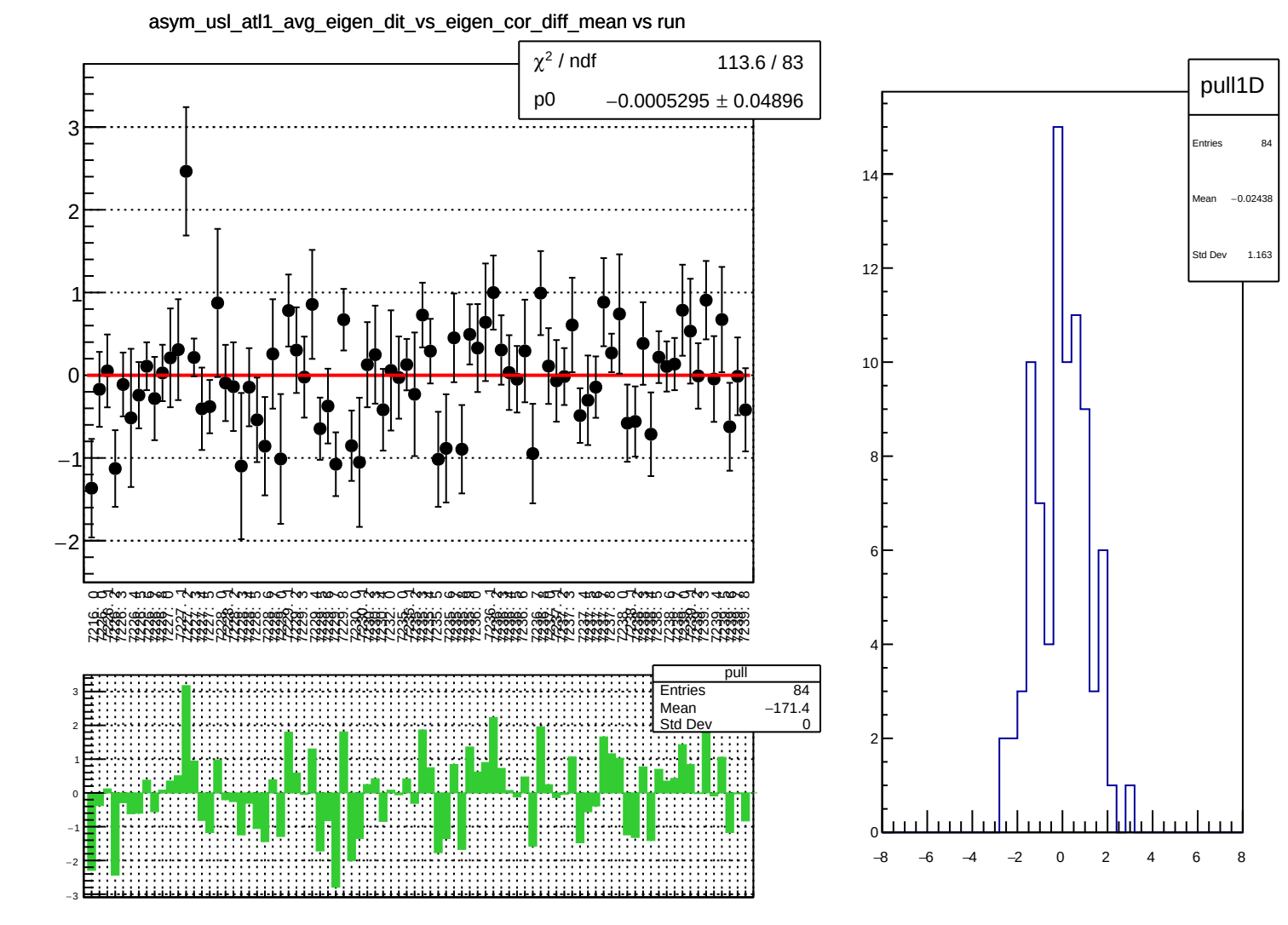

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.15 / 83
p0 −1.375e−06 ± 1.095e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 84
Mean 98.38
Std Dev 66.95
2
1
0
−1
−2
−3

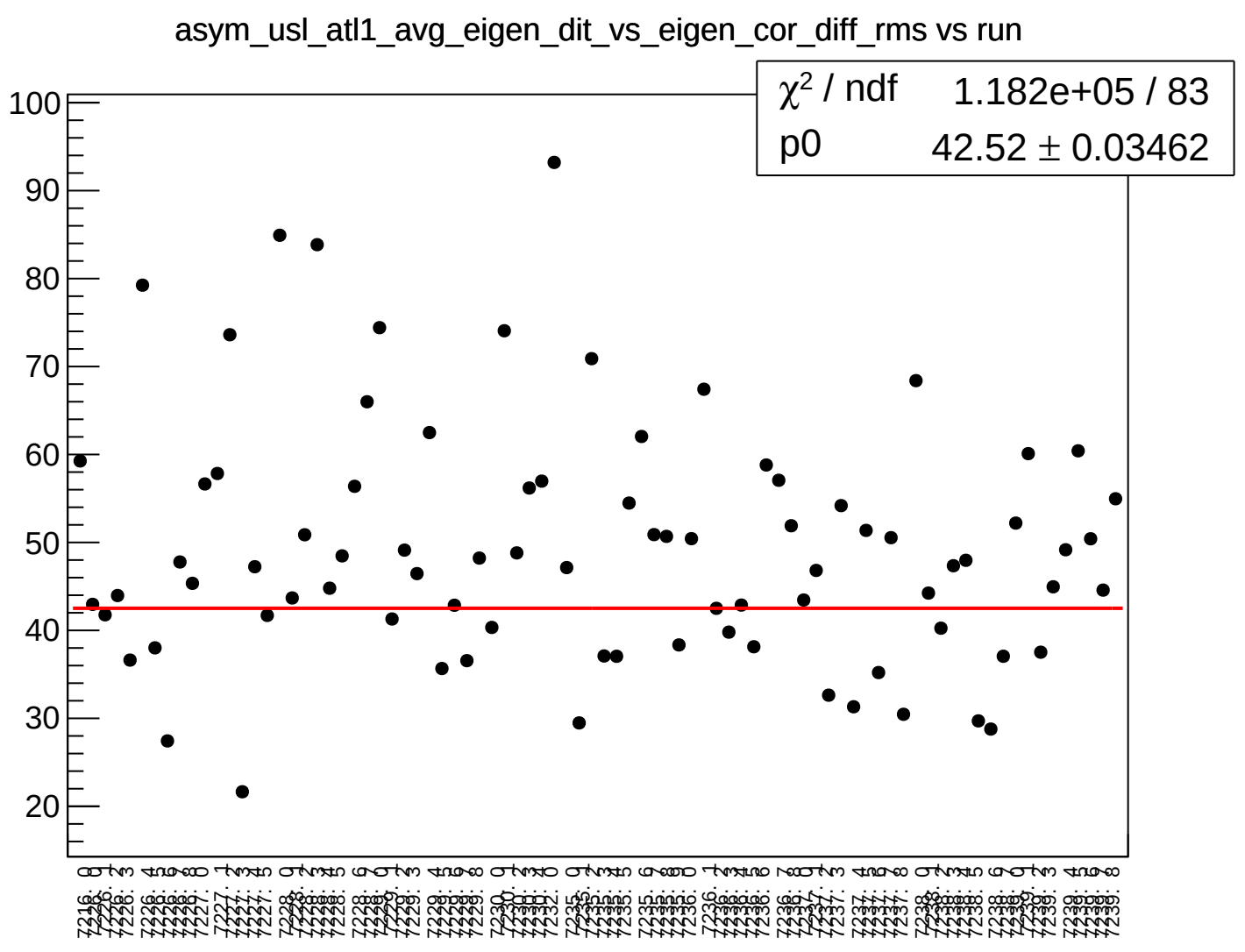

pull1D
Entries 84
Mean −0.0147
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

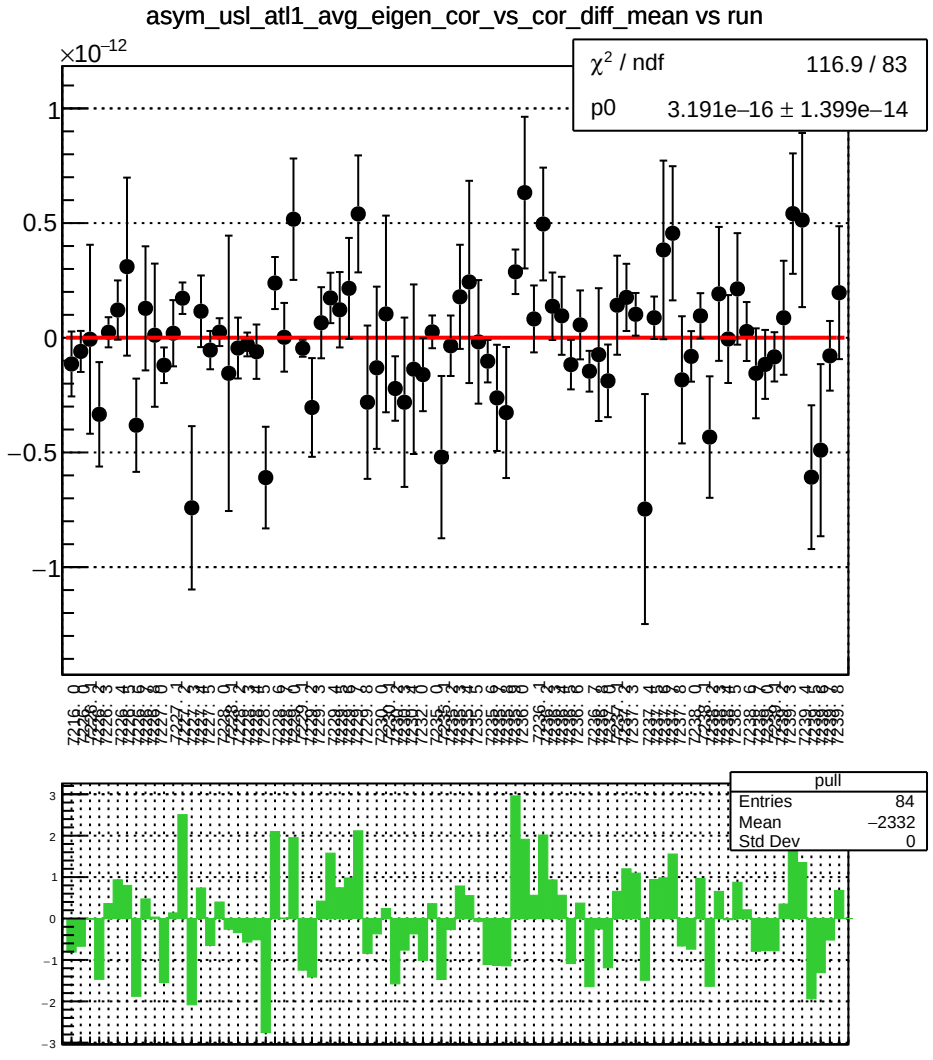

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.469e+05 / 83
p0 0.0008413 ± 7.746e−07
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005

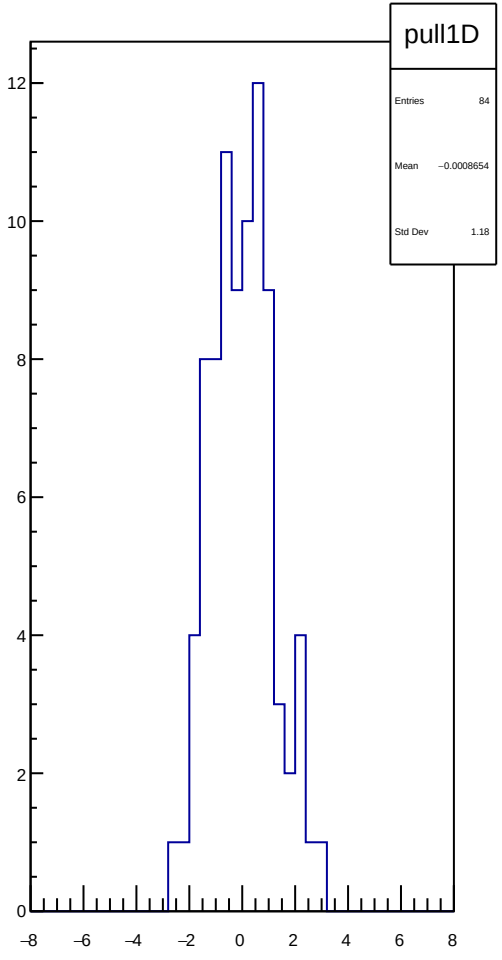

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 113.6 / 83
p0 −0.0005295 ± 0.04896
pull
Entries 84
Mean −171.4
Std Dev 0
pull1D
Entries 84
Mean −0.02438
Std Dev 1.163

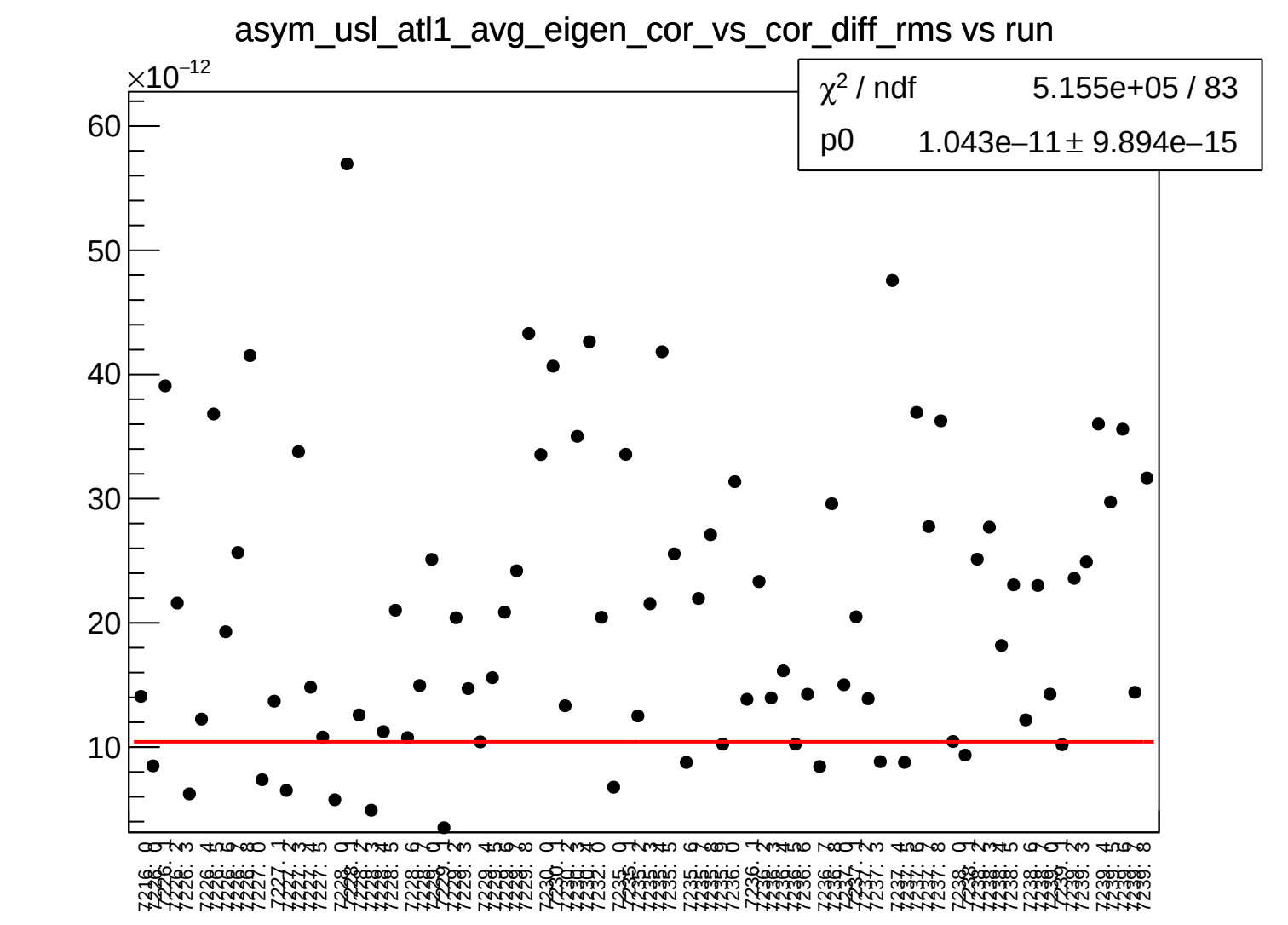

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.182e+05 / 83
p0 42.52 ± 0.03462
100
90
80
70
60
50
40
30
20

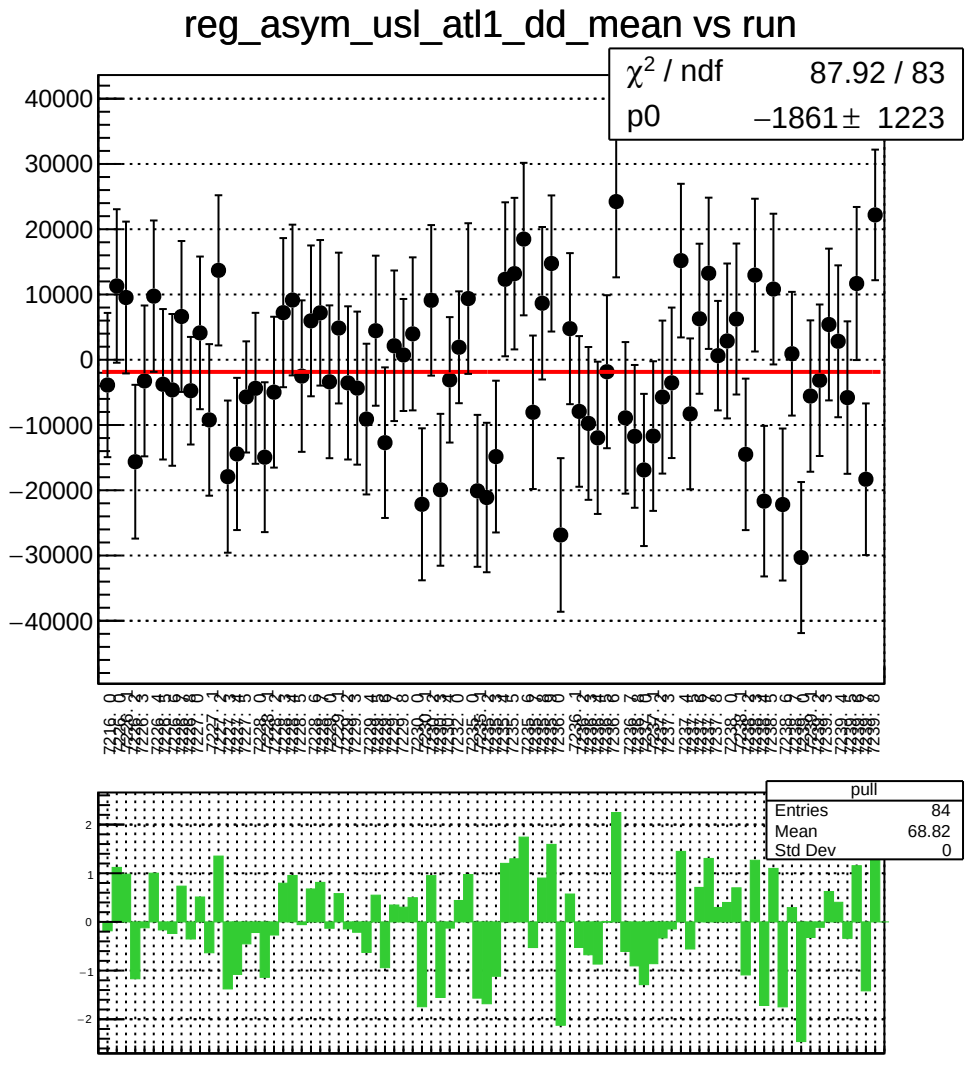

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.6 / 83
p0 −0.0005295 ± 0.04896
pull
Entries 84
Mean −171.4
Std Dev 0
pull1D
Entries 84
Mean −0.02438
Std Dev 1.163

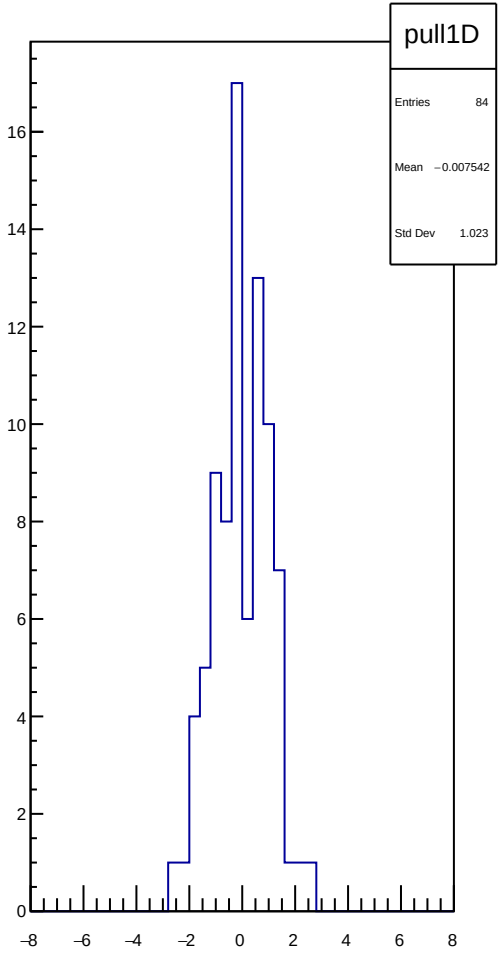

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.182e+05 / 83
p0 42.52 ± 0.03462
100
90
80
70
60
50
40
30
20

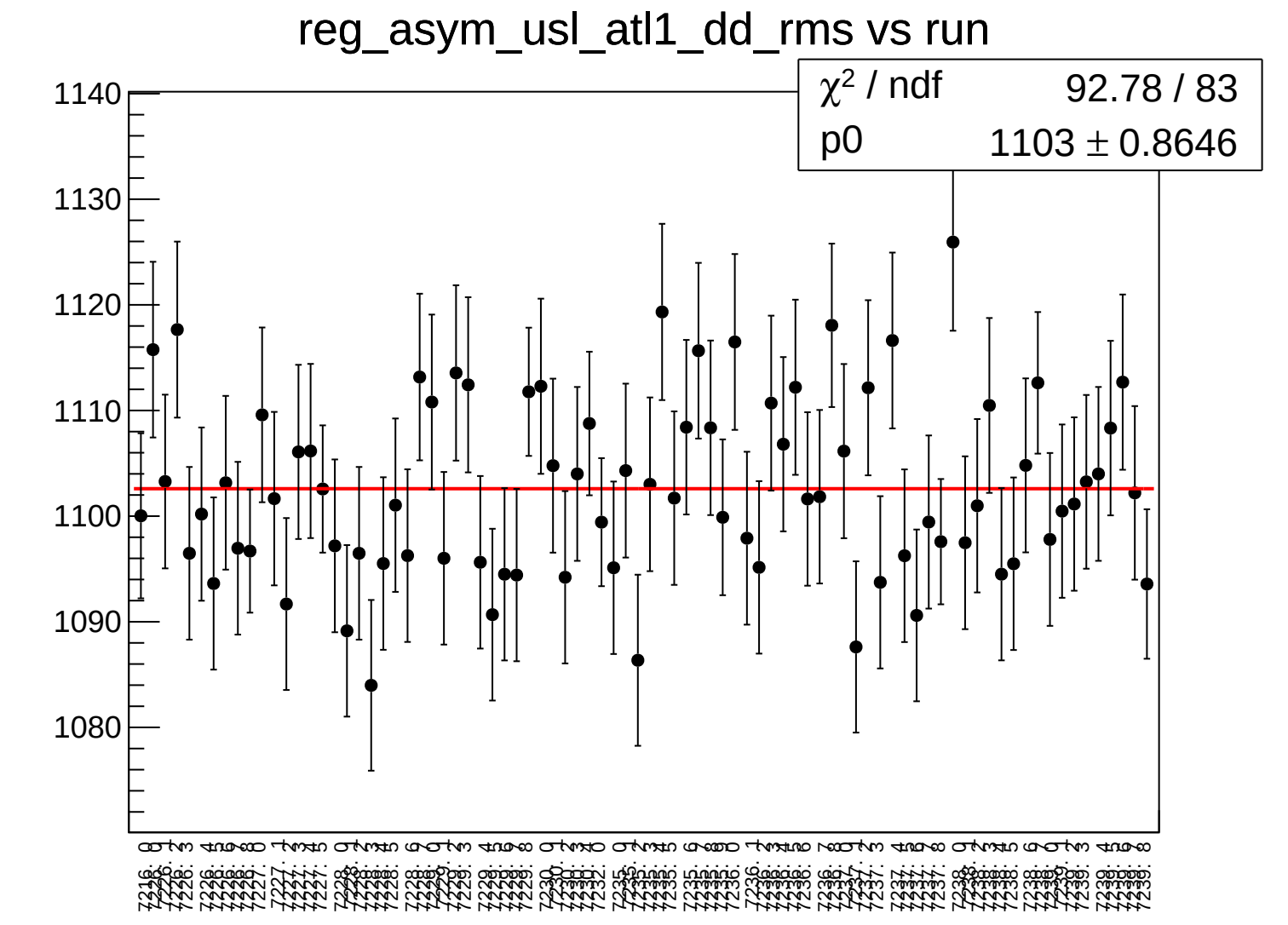

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 116.9 / 83
p0 3.191e−16 ± 1.399e−14
pull
Entries 84
Mean −2332
Std Dev 0

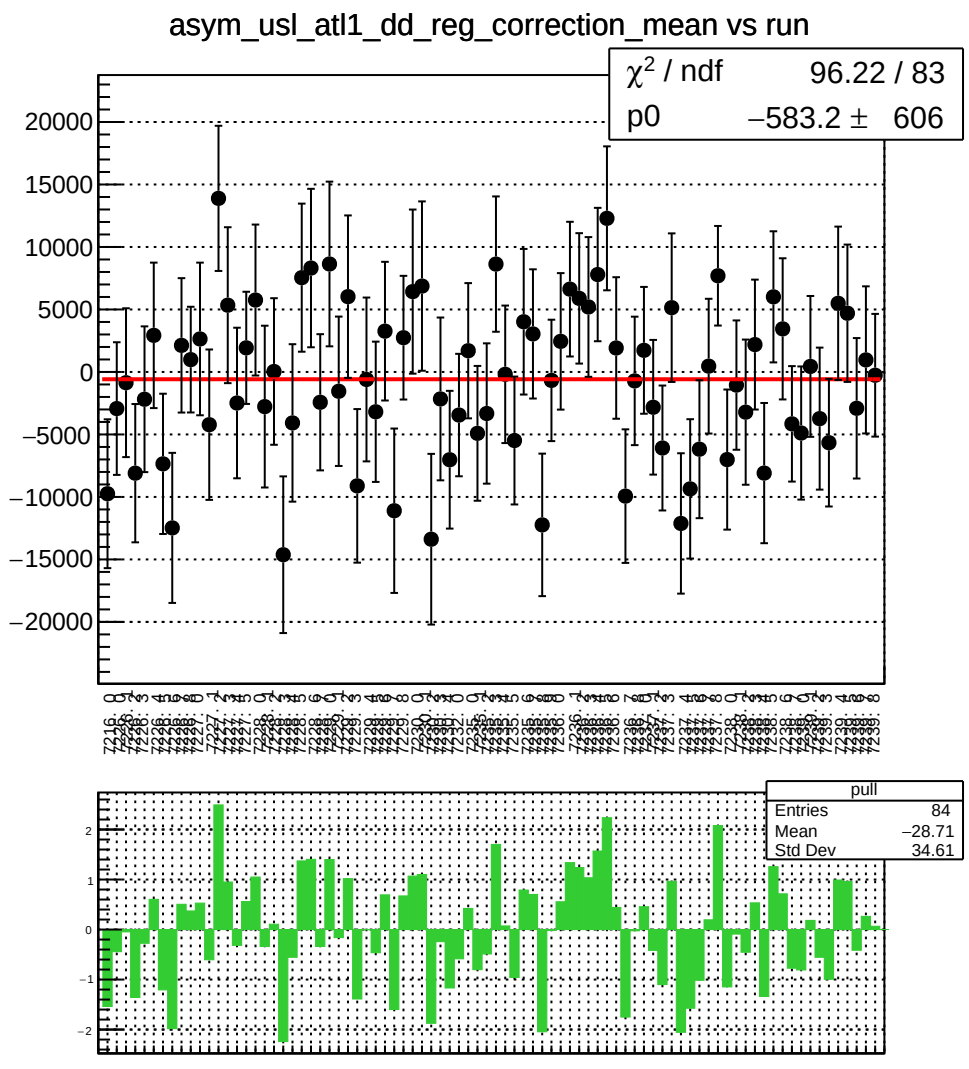

pull1D
Entries 84
Mean −0.0008654
Std Dev 1.18

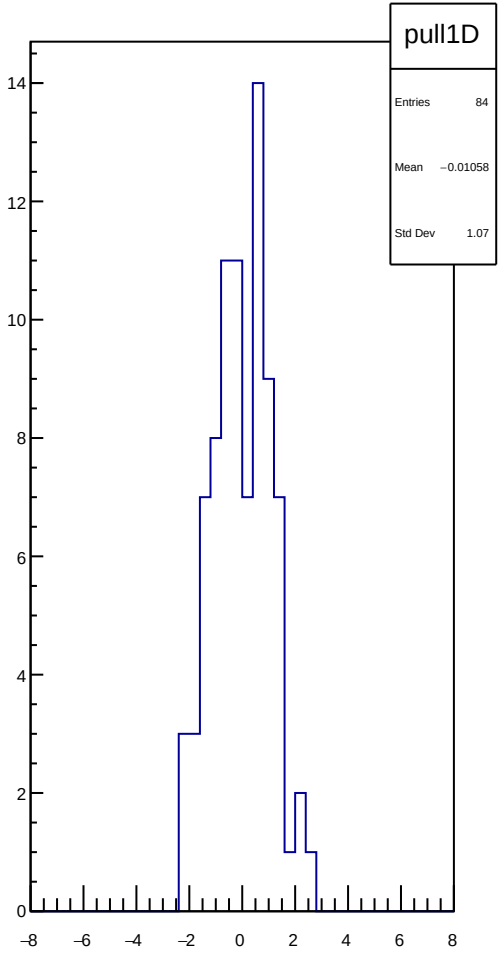

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.155e+05 / 83
p0 1.043e−11 ± 9.894e−15
60
50
40
30
20
10

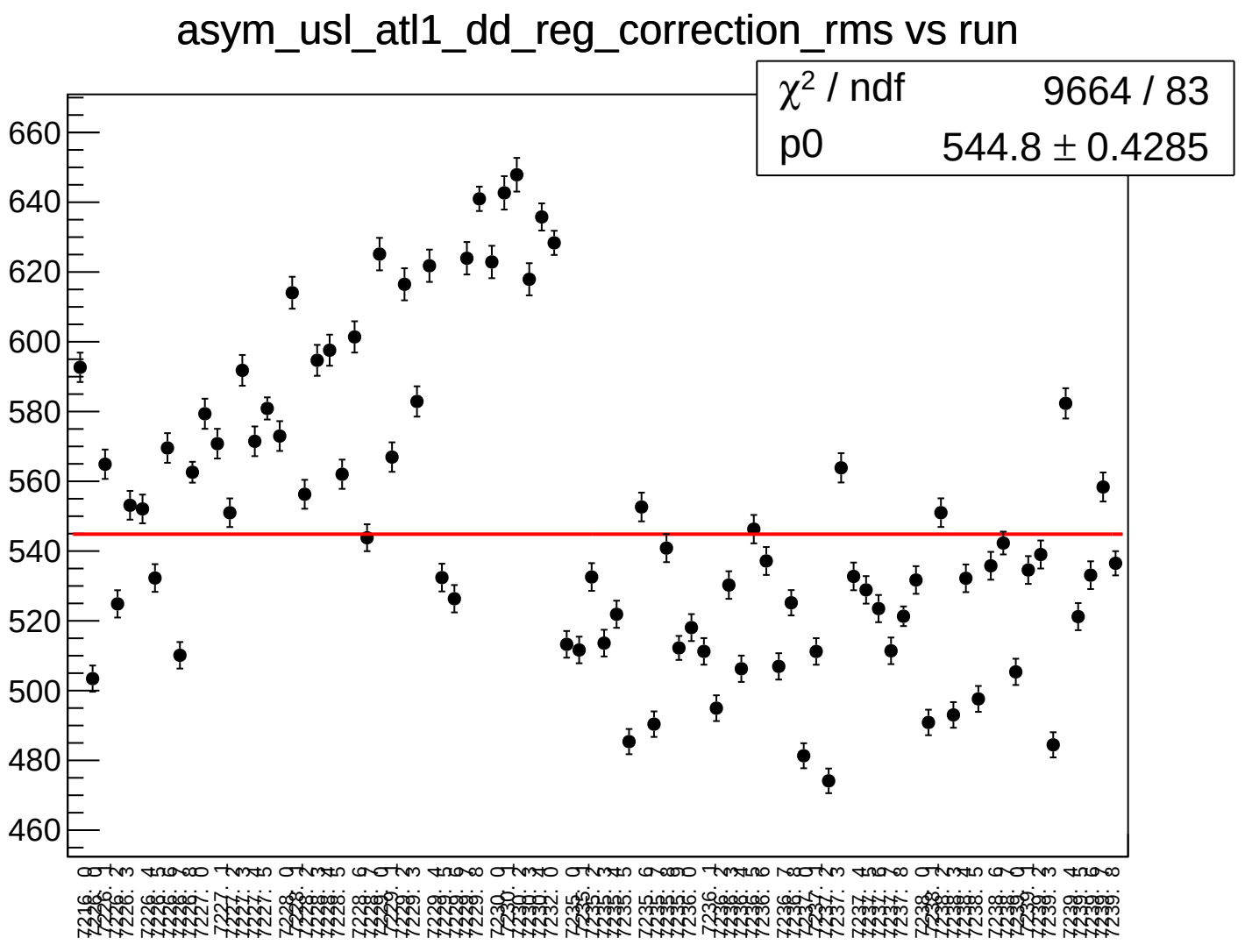

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 87.92 / 83
p0 −1861 ± 1223
pull
Entries 84
Mean 68.82
Std Dev 0

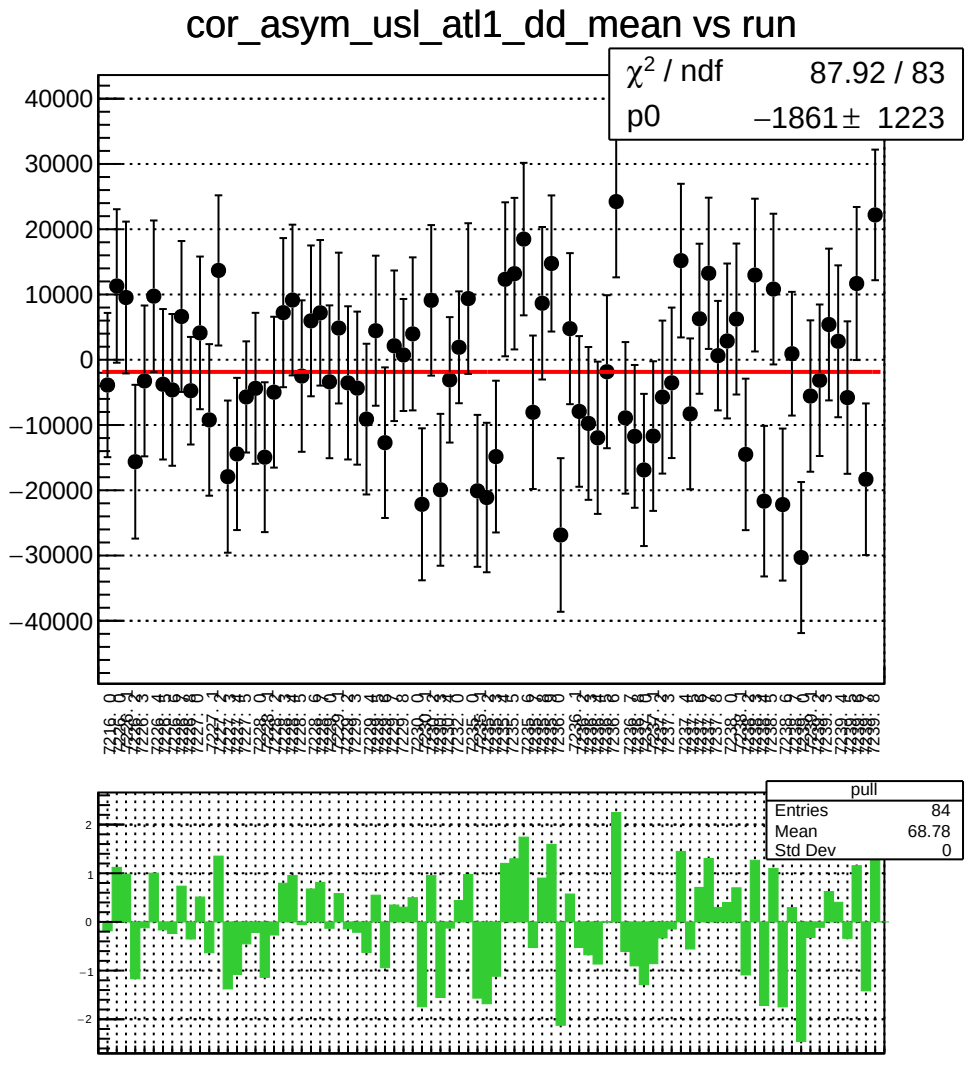

pull1D
Entries 84
Mean −0.007542
Std Dev 1.023

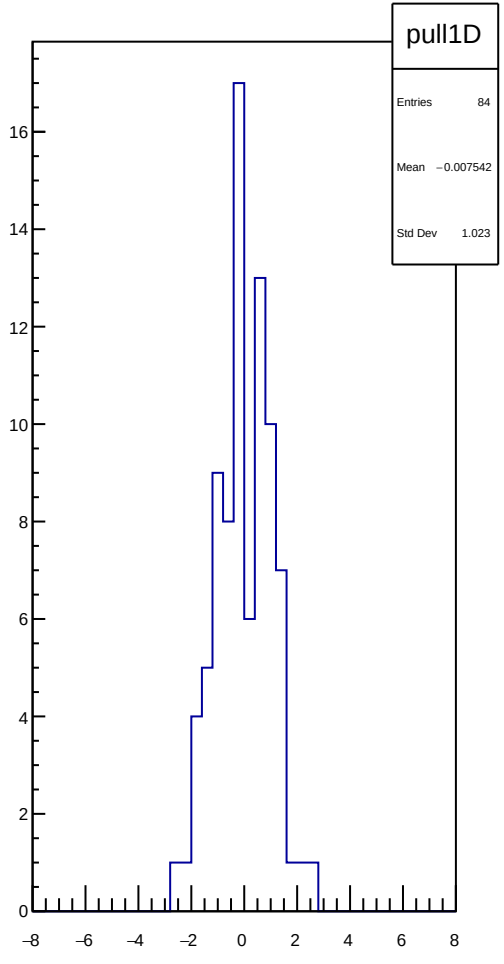

reg_asym_usl_atl1_dd_rms vs run
χ^2 / ndf 92.78 / 83
p0 1103 ± 0.8646
1140
1130
1120
1110
1100
1090
1080

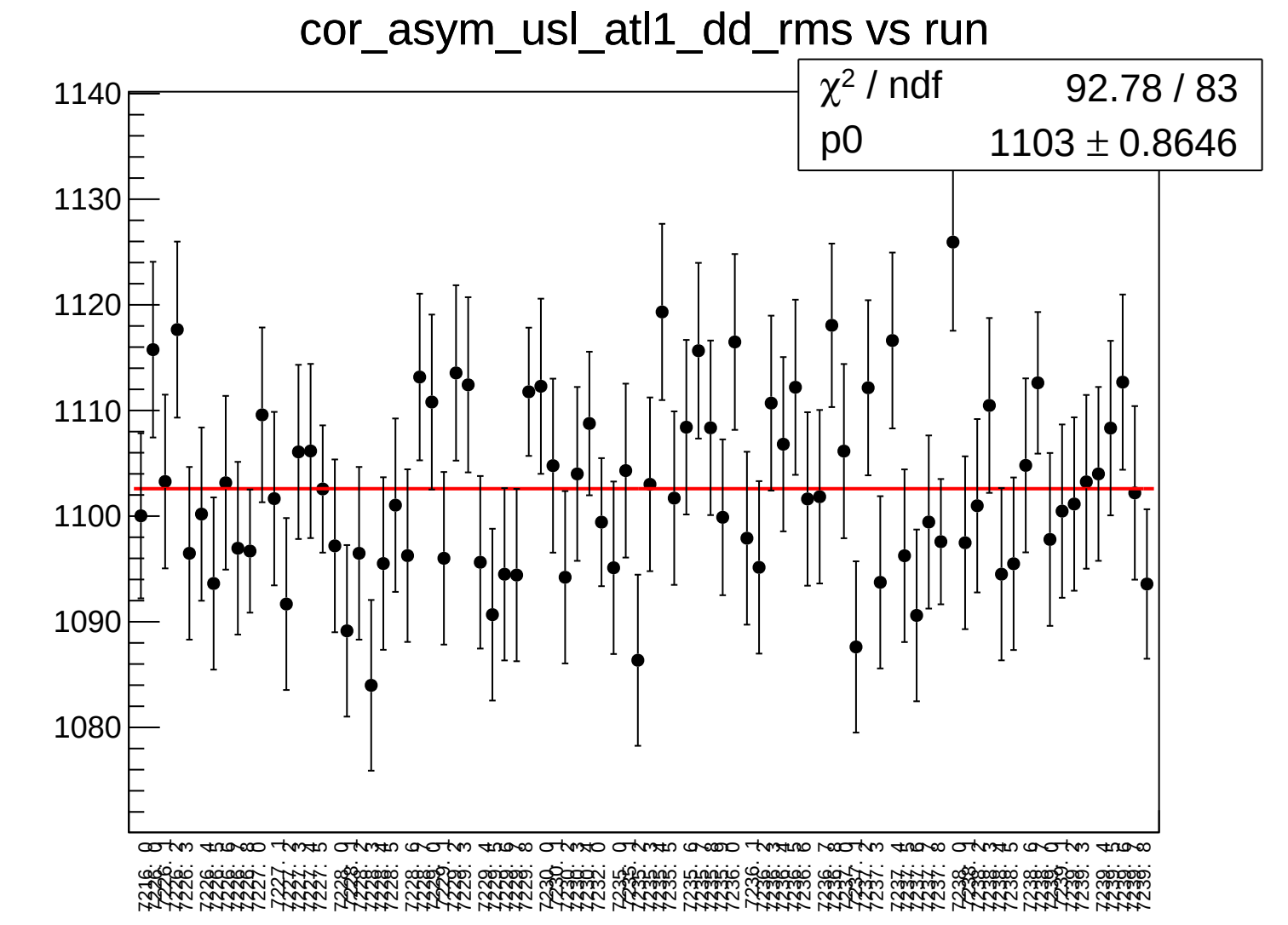

asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 96.22 / 83
p0 −583.2 ± 606
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 84
Mean −28.71
Std Dev 34.61
2
1
0
−1
−2

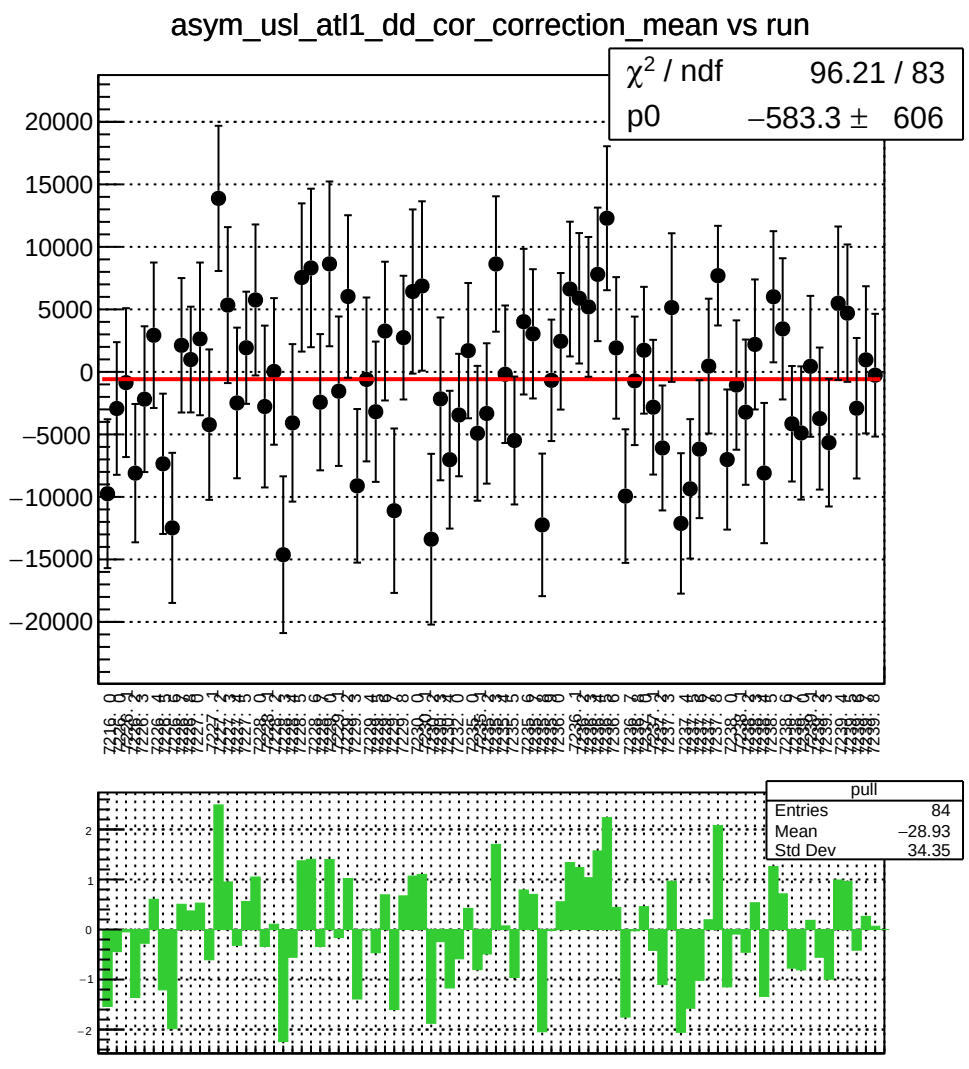

pull1D
Entries 84
Mean −0.01058
Std Dev 1.07
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

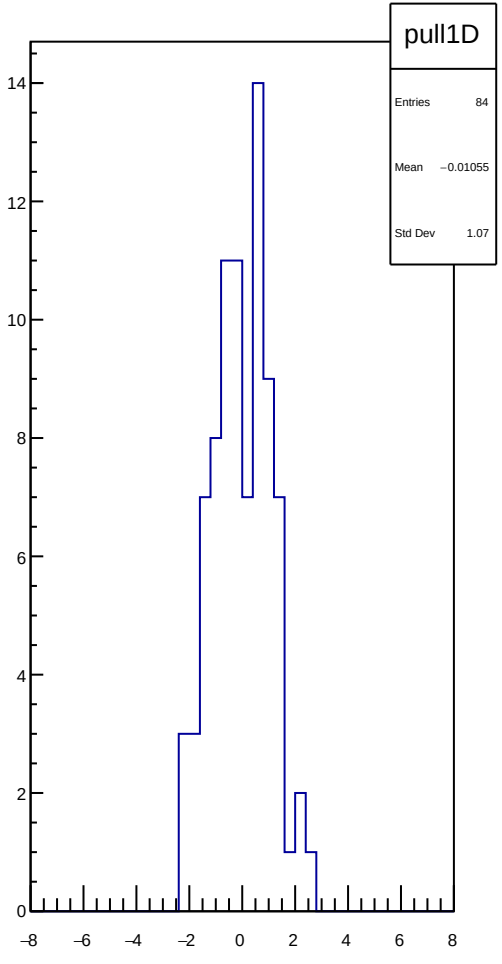

asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 9664 / 83
p0 544.8 ± 0.4285
660
640
620
600
580
560
540
520
500
480
460

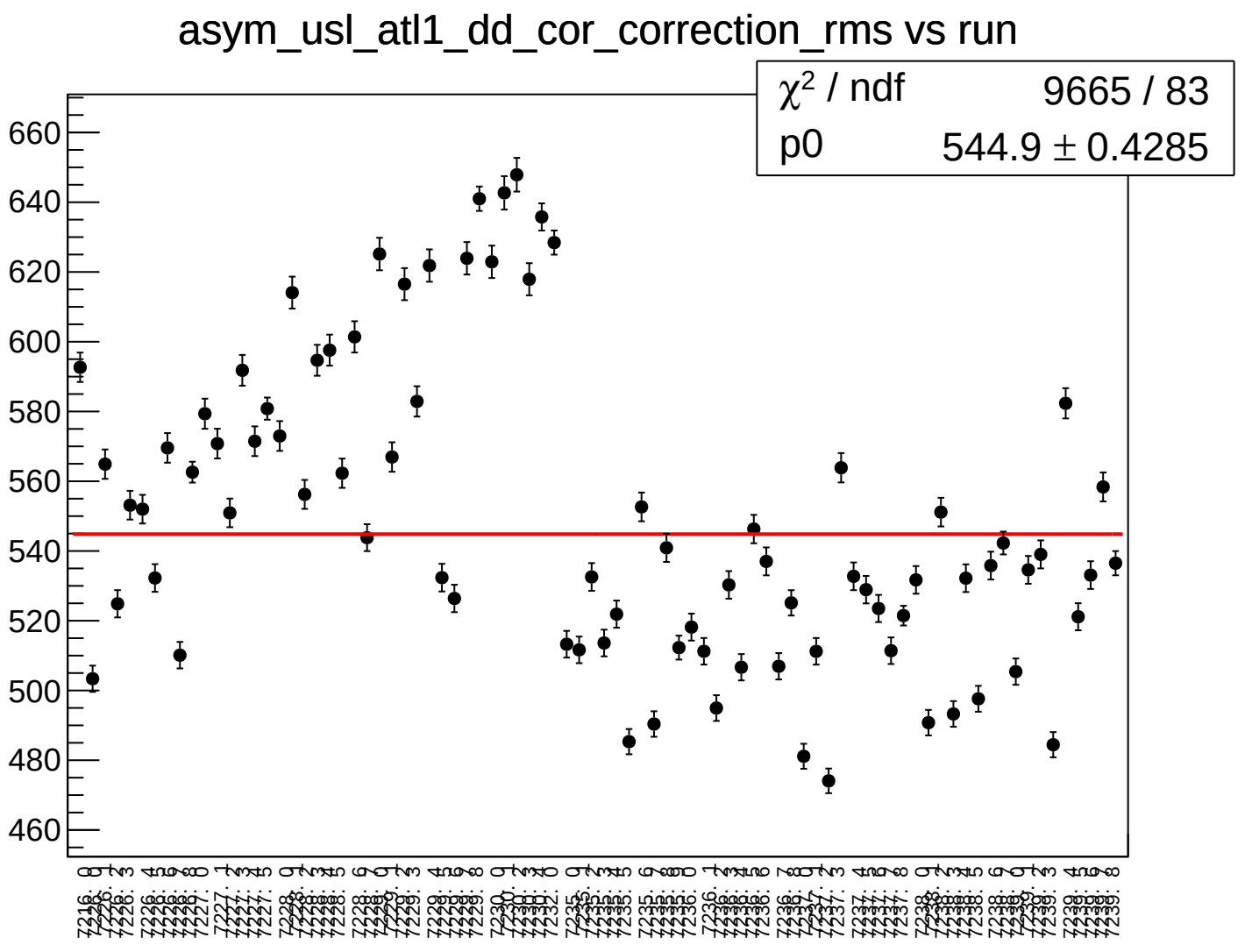

cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 87.92 / 83
p0 −1861 ± 1223
pull
Entries 84
Mean 68.78
Std Dev 0

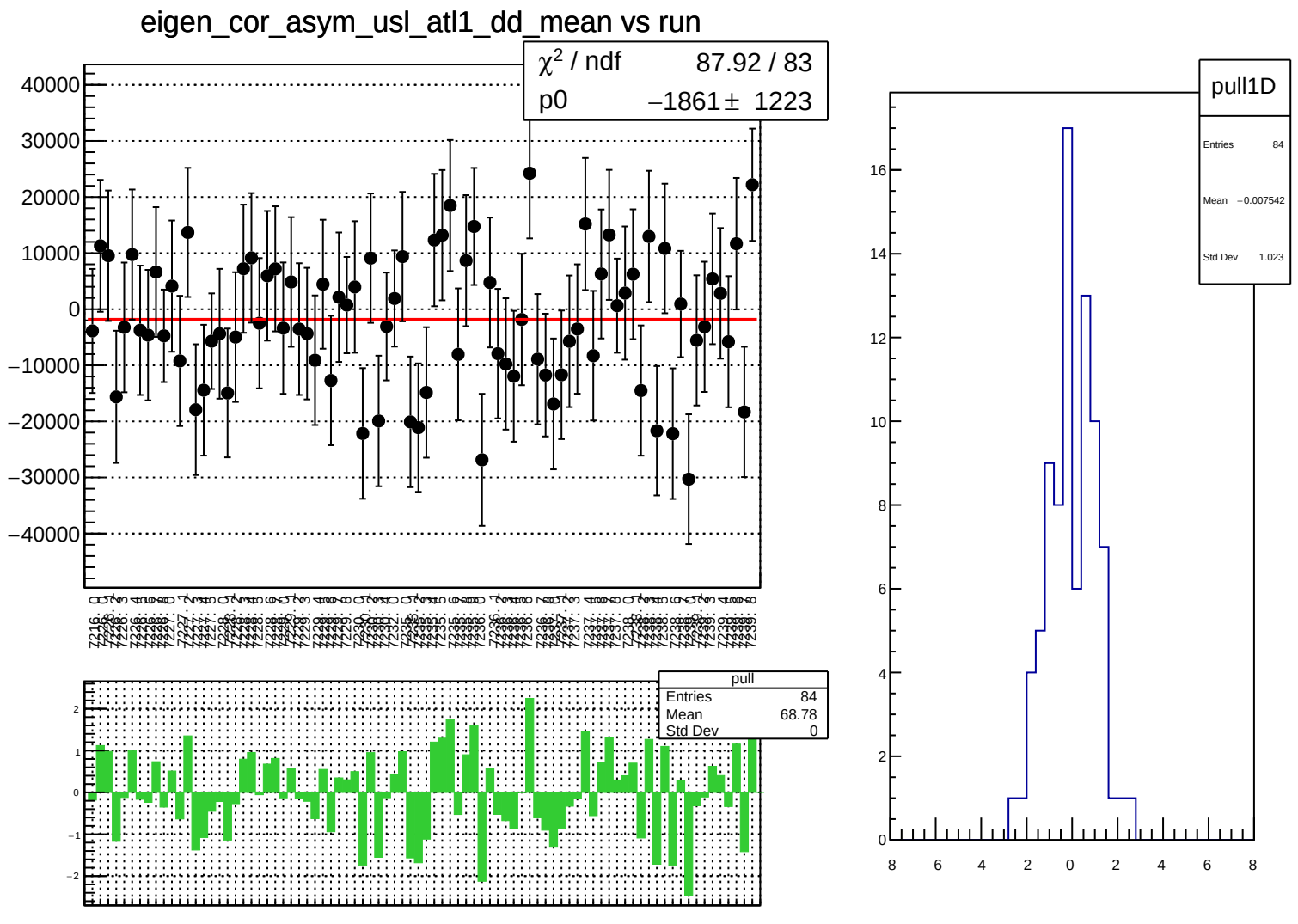

pull1D
Entries 84
Mean −0.007542
Std Dev 1.023

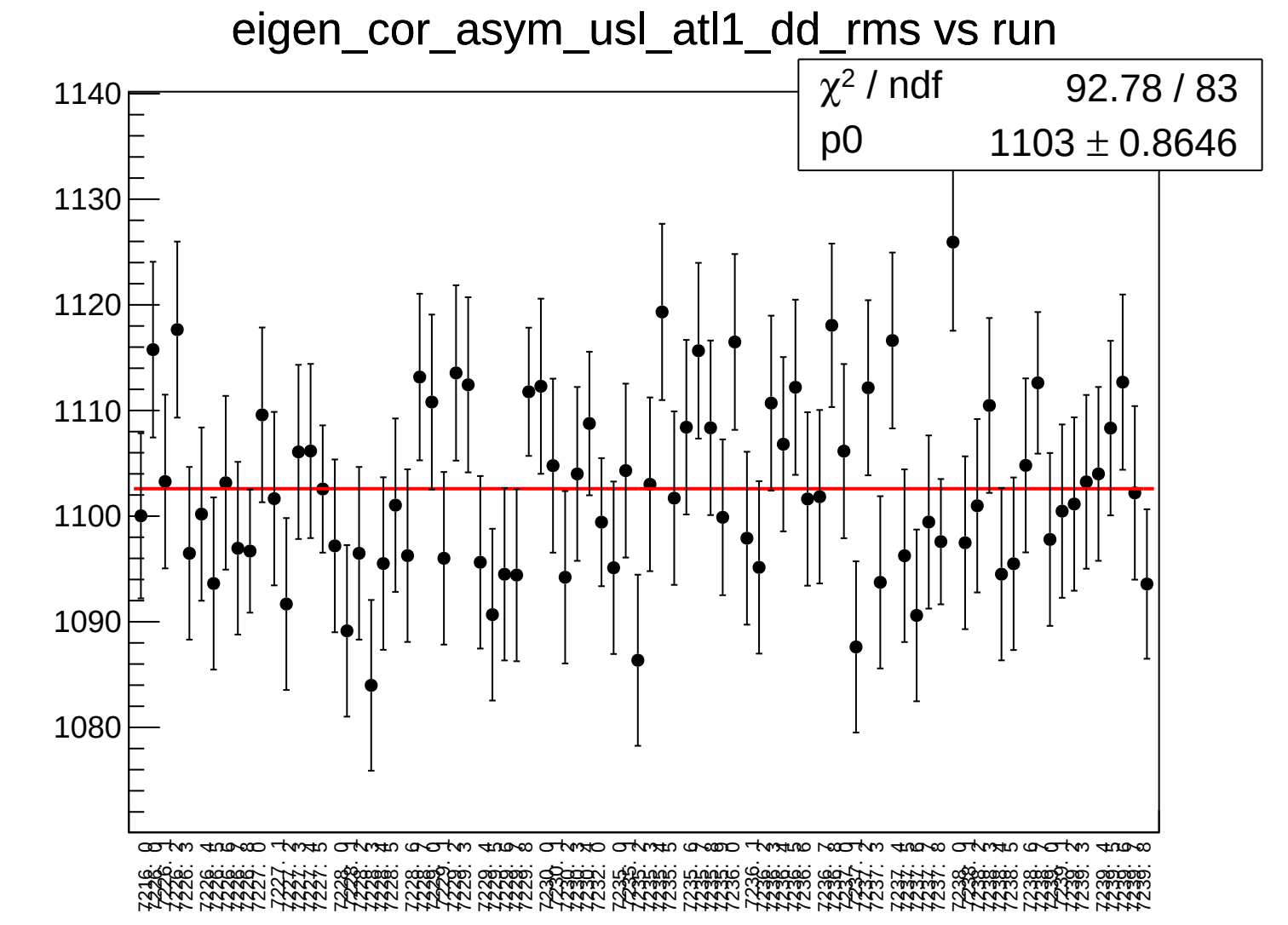

cor_asym_usl_atl1_dd_rms vs run
χ^2 / ndf 92.78 / 83
p0 1103 ± 0.8646
1140
1130
1120
1110
1100
1090
1080

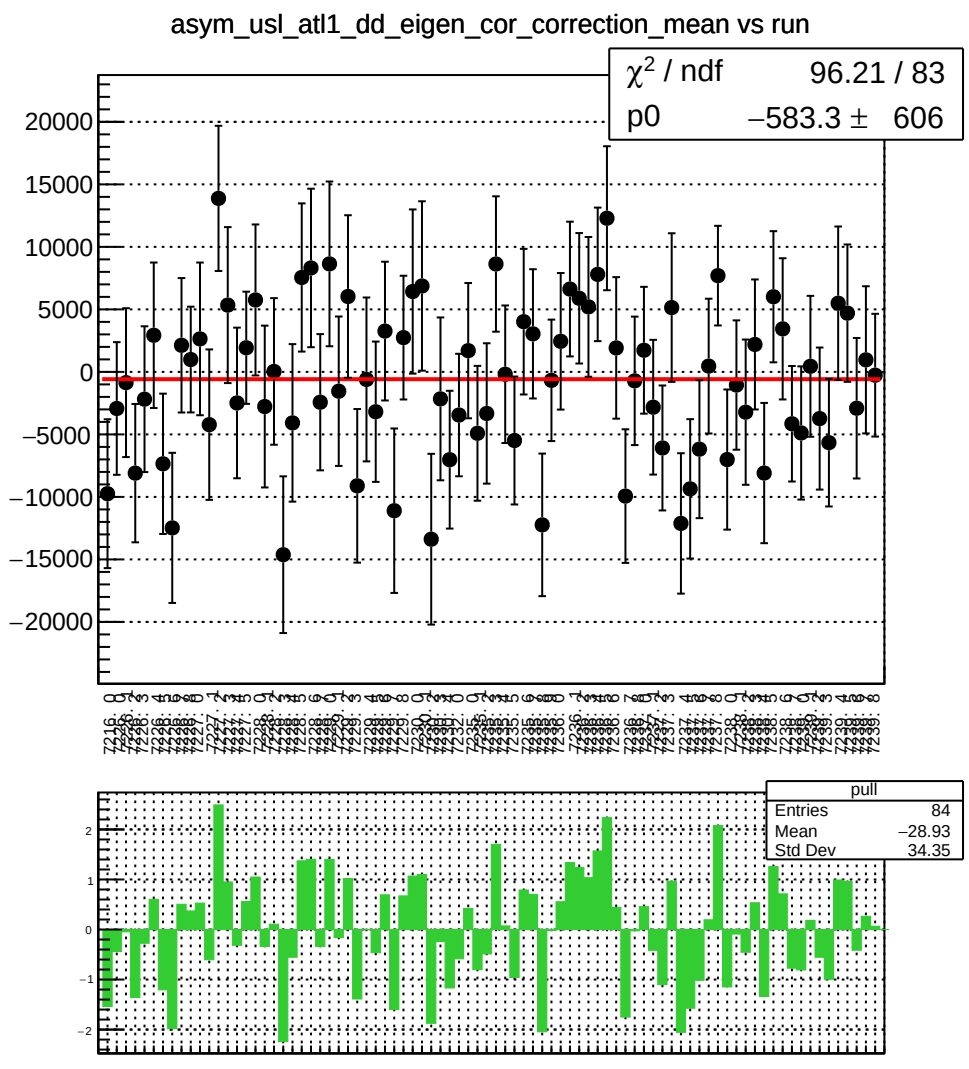

asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 96.21 / 83
p0 −583.3 ± 606
pull
Entries 84
Mean −28.93
Std Dev 34.35

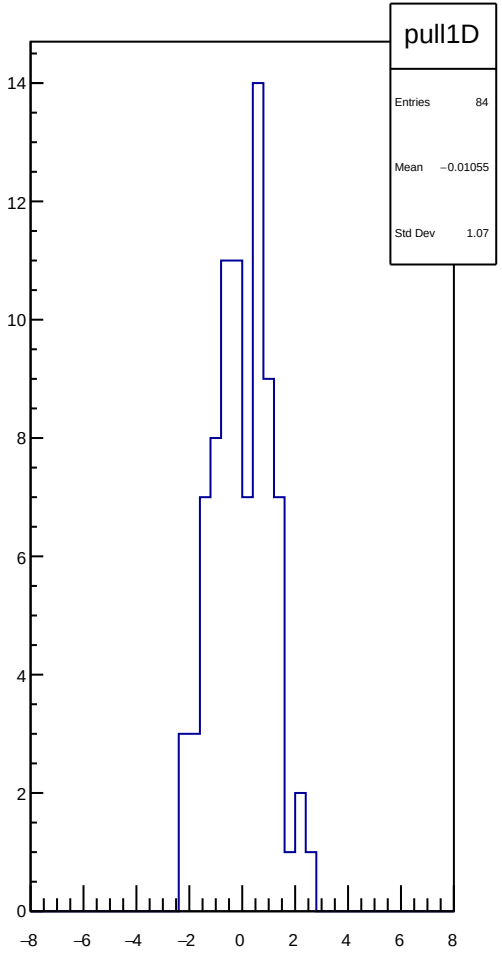

pull1D
Entries 84
Mean −0.01055
Std Dev 1.07

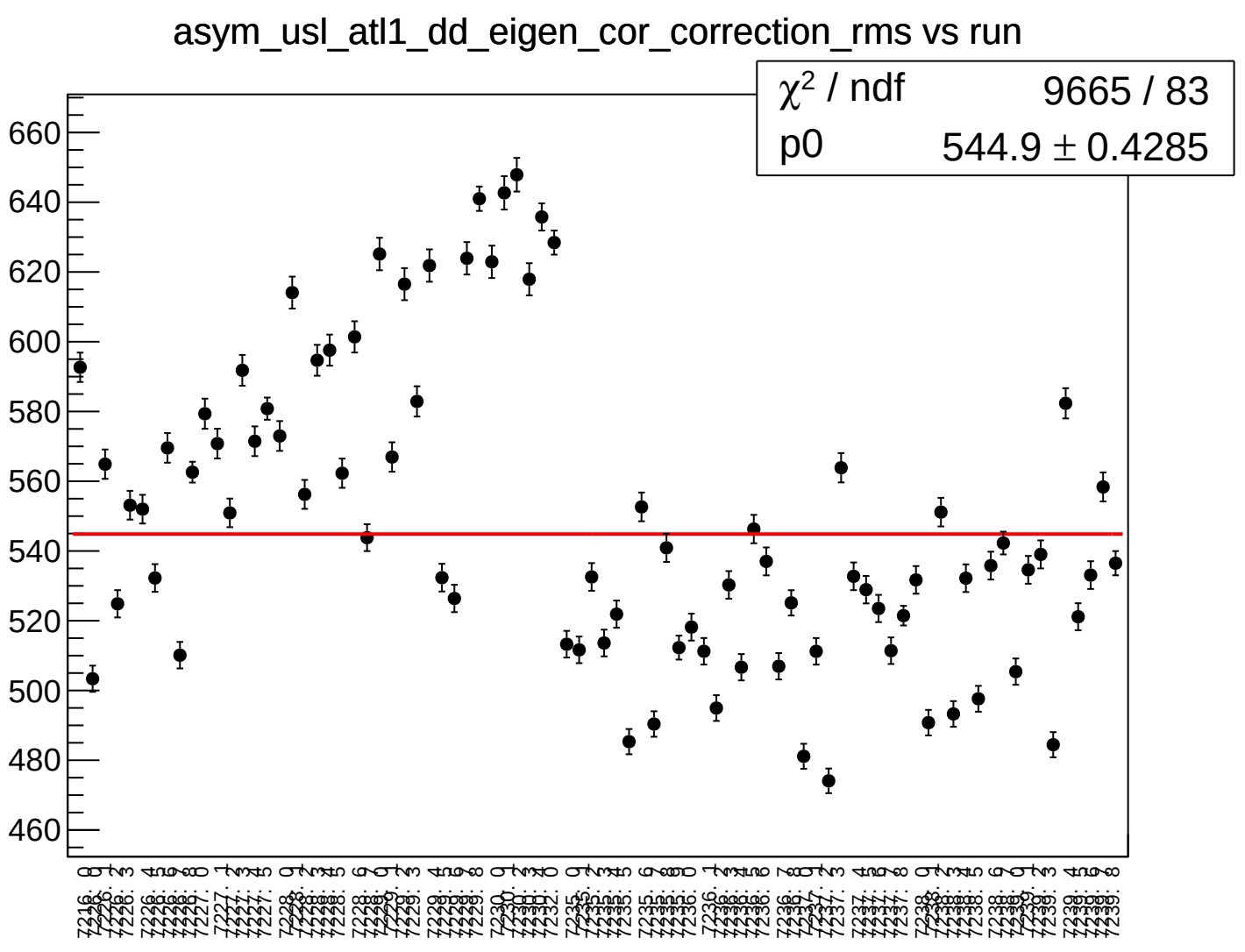

asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 9665 / 83
p0 544.9 ± 0.4285
660
640
620
600
580
560
540
520
500
480
460

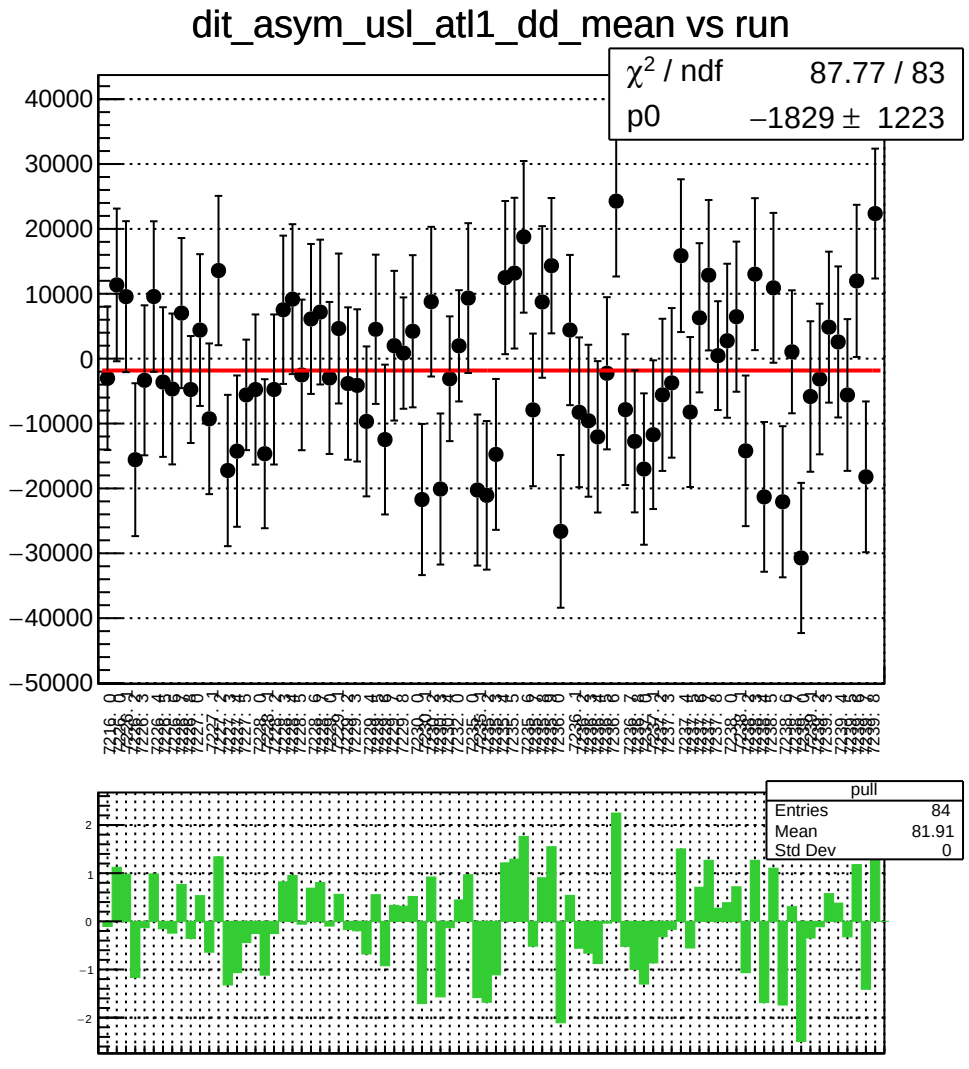

eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 87.92 / 83
p0 −1861 ± 1223
pull
Entries 84
Mean 68.78
Std Dev 0
pull1D
Entries 84
Mean −0.007542
Std Dev 1.023

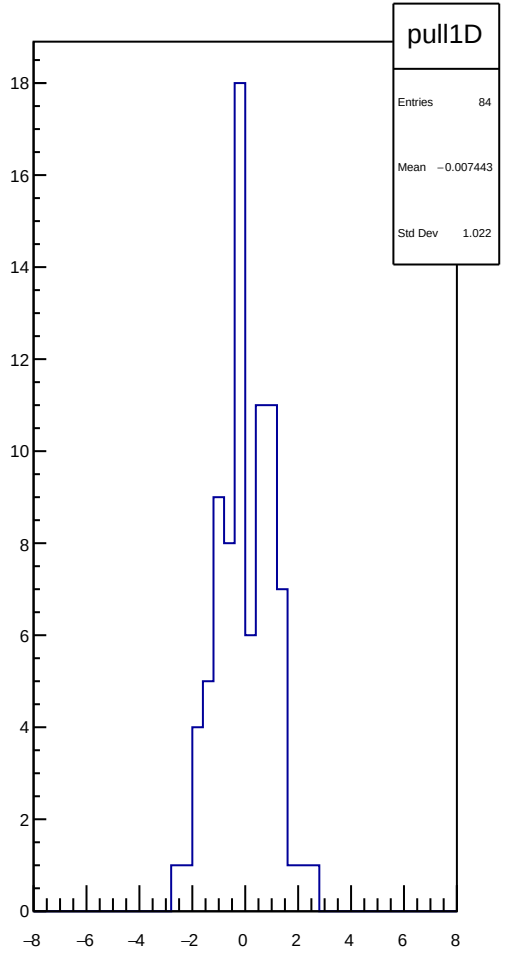

eigen_cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 92.78 / 83
p0 1103 ± 0.8646
1140
1130
1120
1110
1100
1090
1080

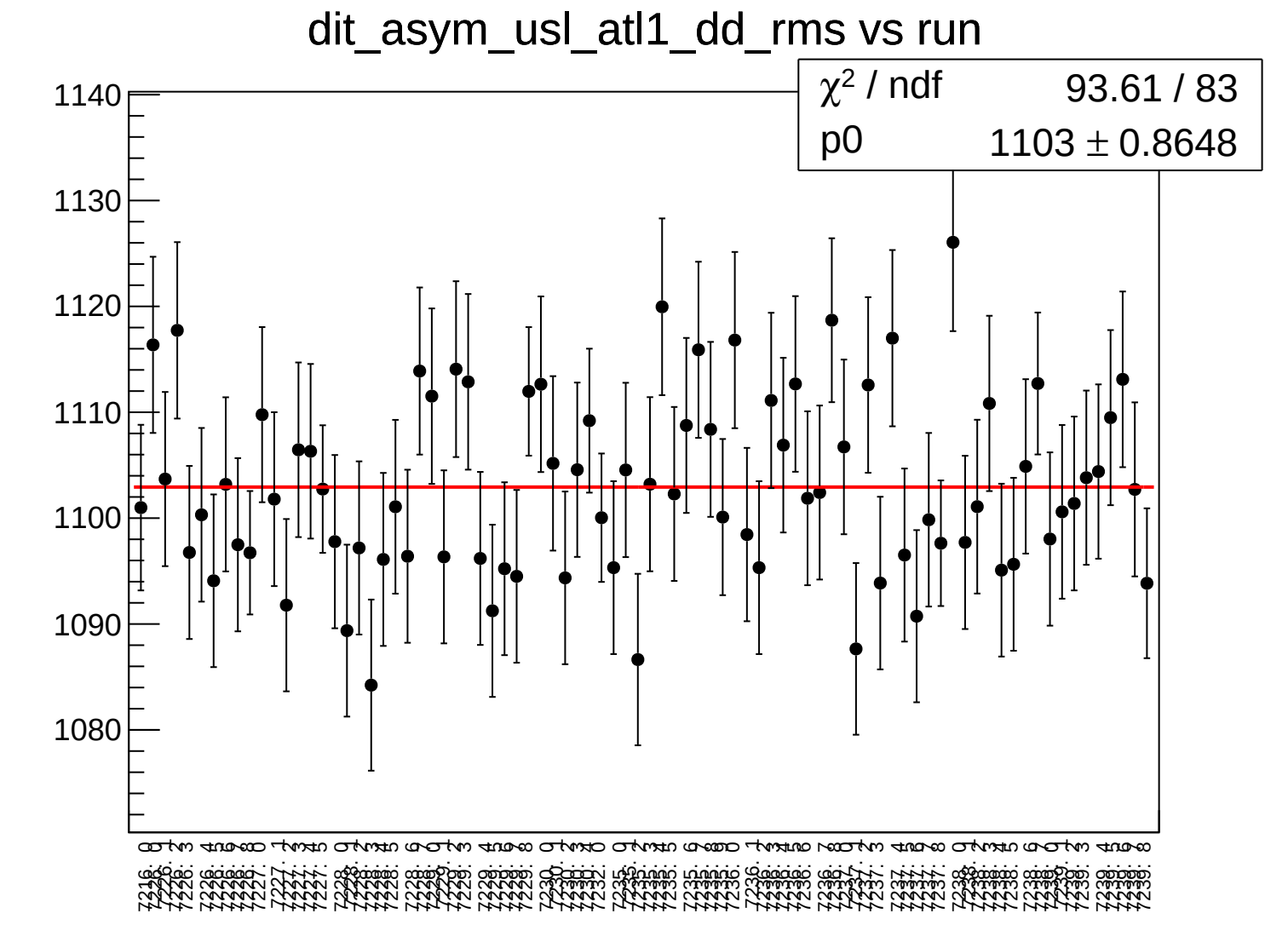

asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 96.21 / 83
p0 −583.3 ± 606
pull
Entries 84
Mean −28.93
Std Dev 34.35

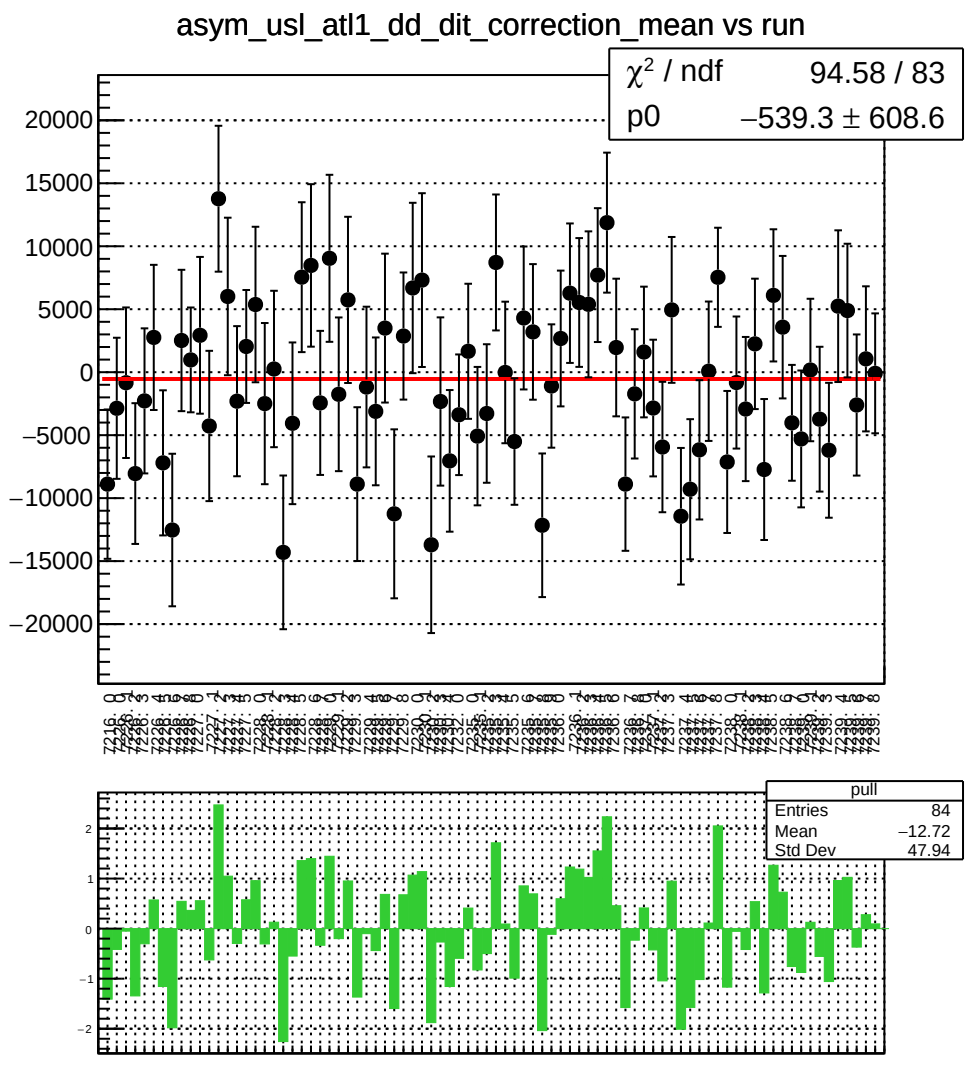

pull1D
Entries 84
Mean −0.01055
Std Dev 1.07

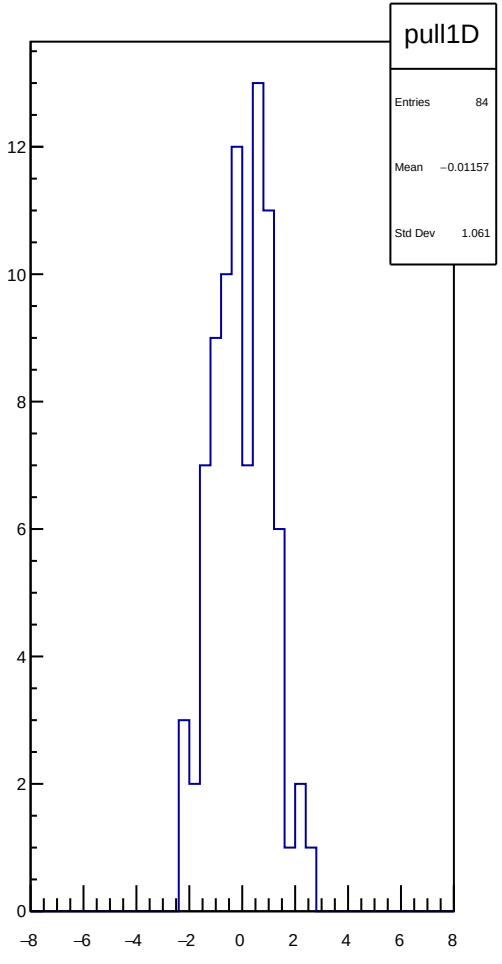

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 9665 / 83
p0 544.9 ± 0.4285
660
640
620
600
580
560
540
520
500
480
460

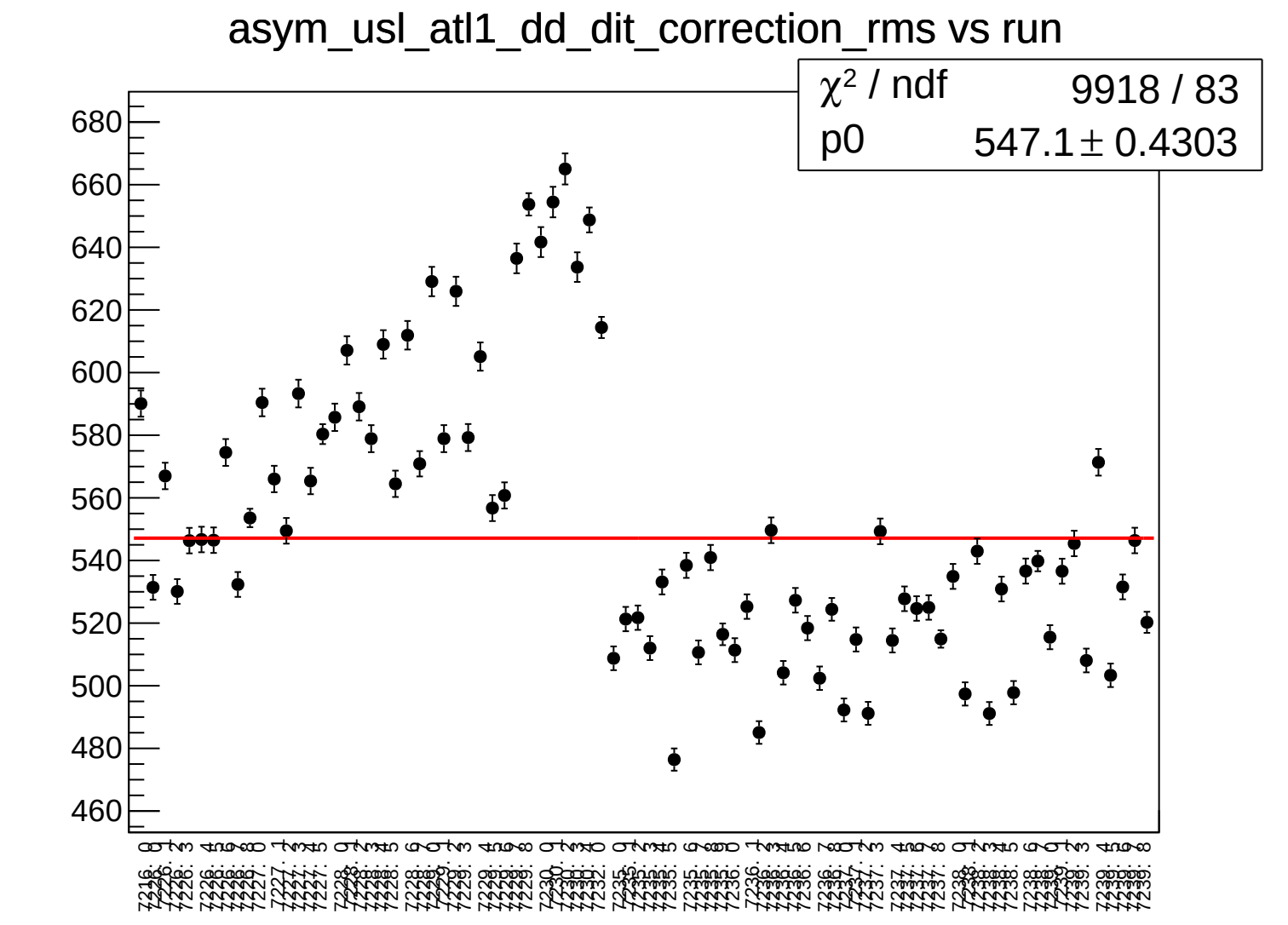

dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 87.77 / 83
p0 −1829 ± 1223
pull
Entries 84
Mean 81.91
Std Dev 0

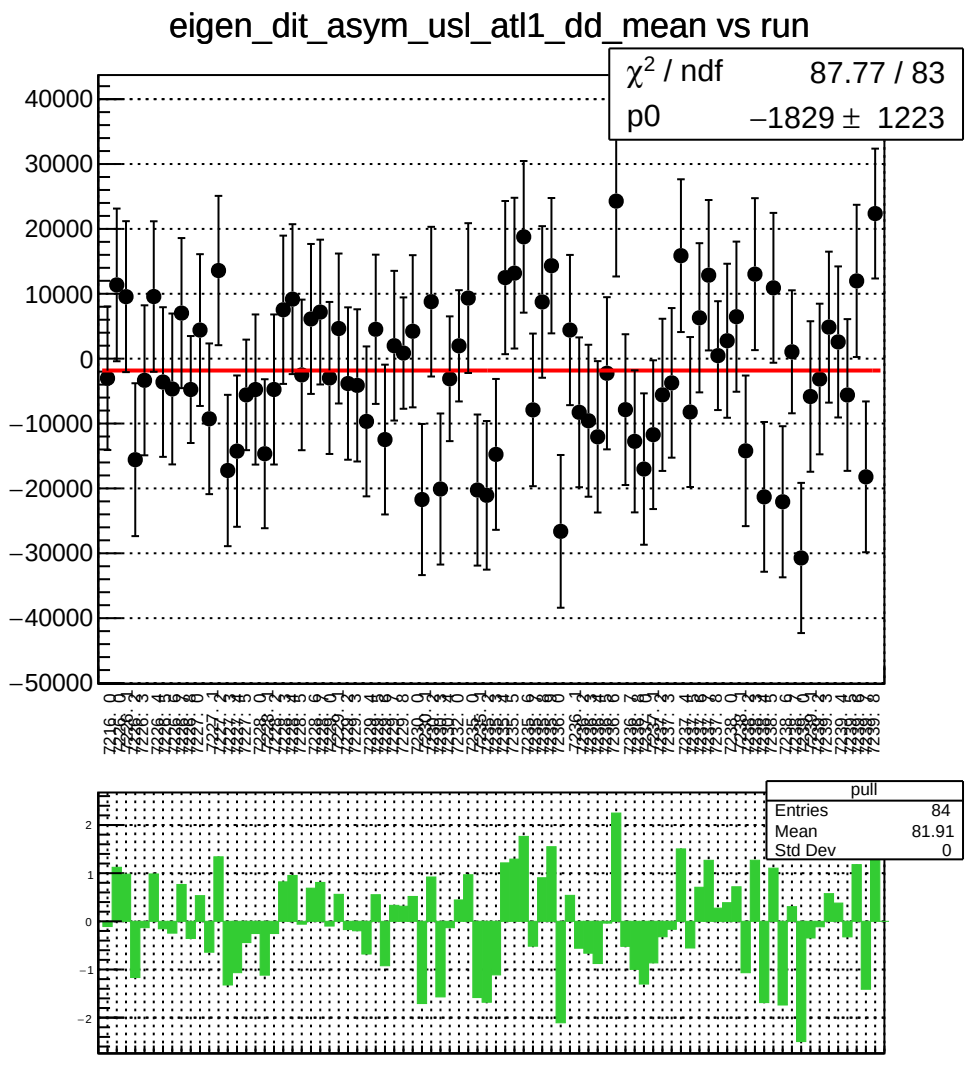

pull1D
Entries 84
Mean −0.007443
Std Dev 1.022

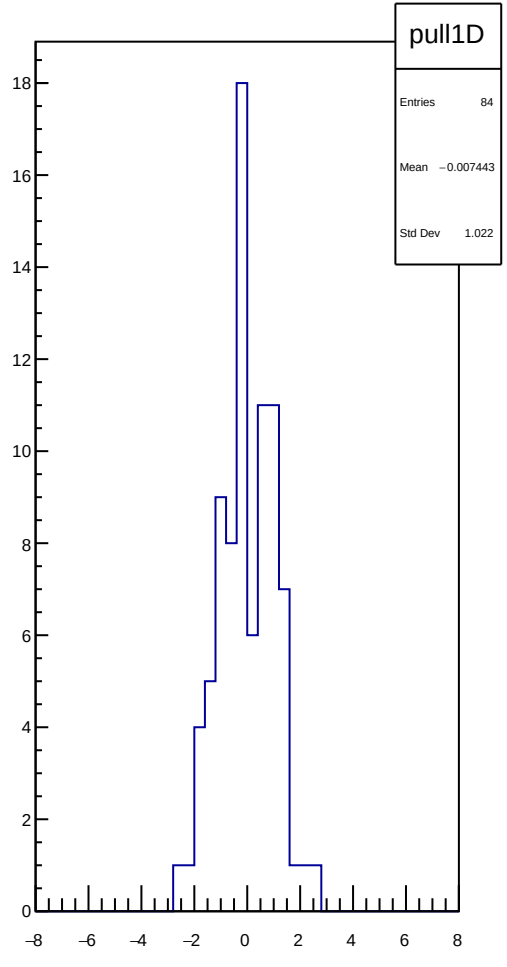

dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 93.61 / 83
p0 1103 ± 0.8648
1140
1130
1120
1110
1100
1090
1080

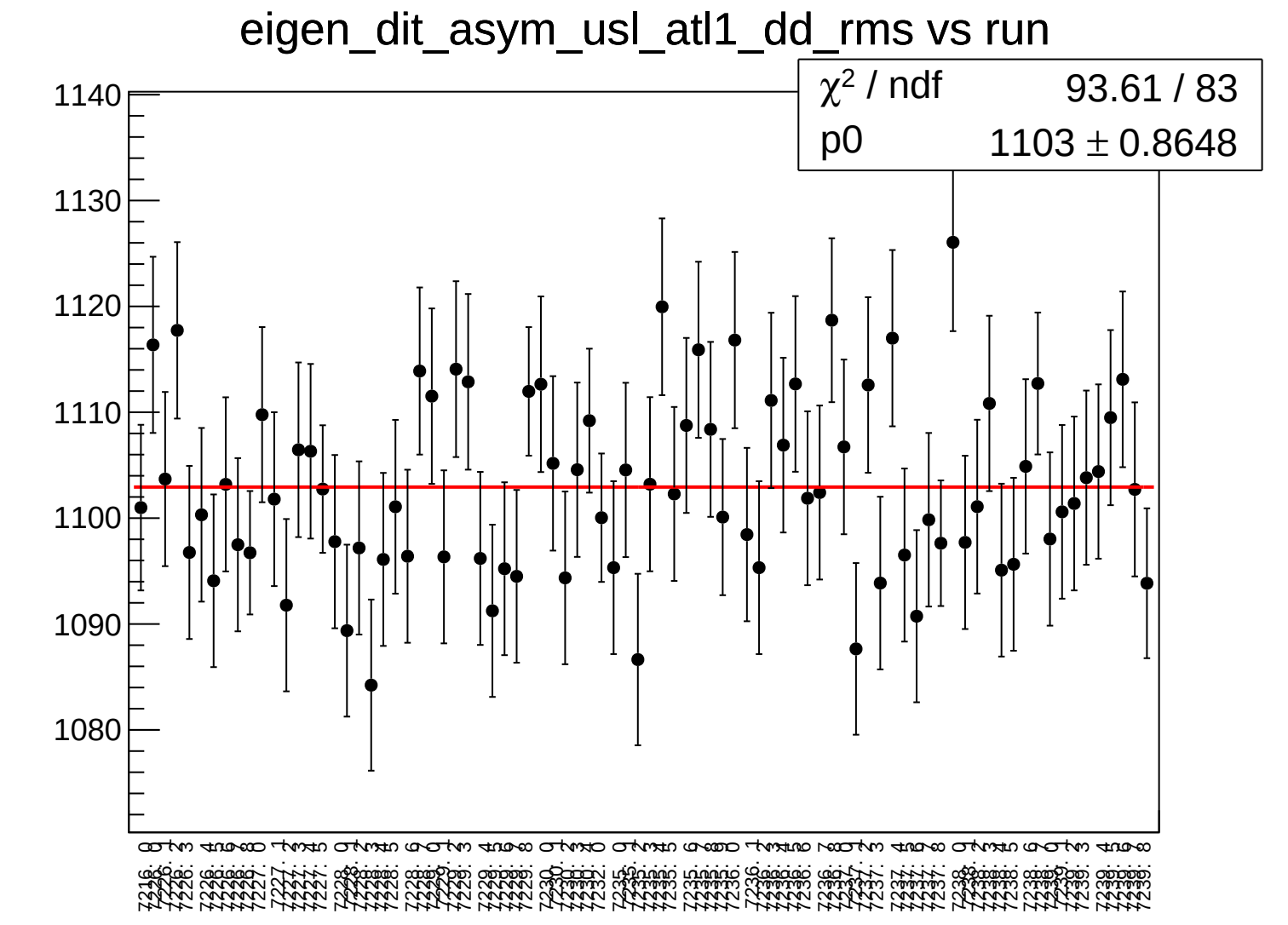

asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 94.58 / 83
p0 −539.3 ± 608.6
pull
Entries 84
Mean −12.72
Std Dev 47.94

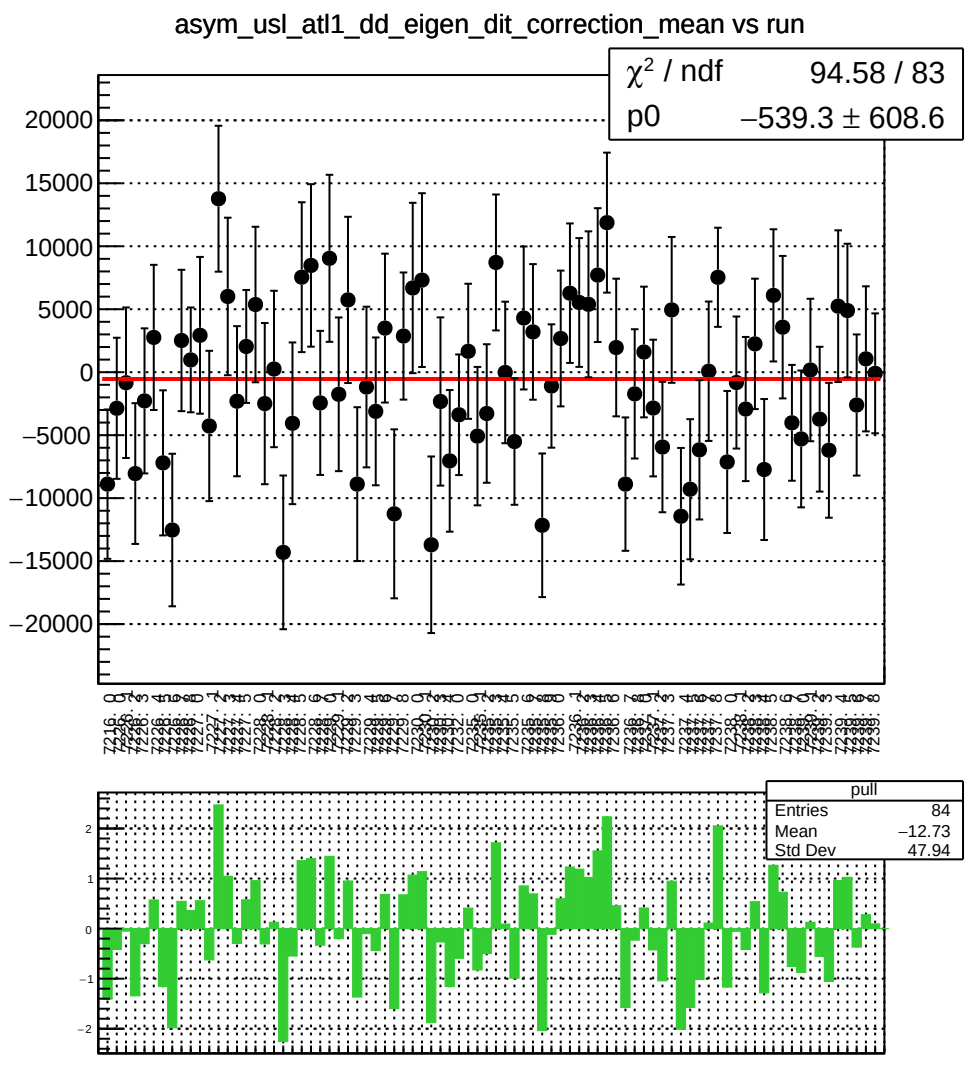

pull1D
Entries 84
Mean −0.01157
Std Dev 1.061

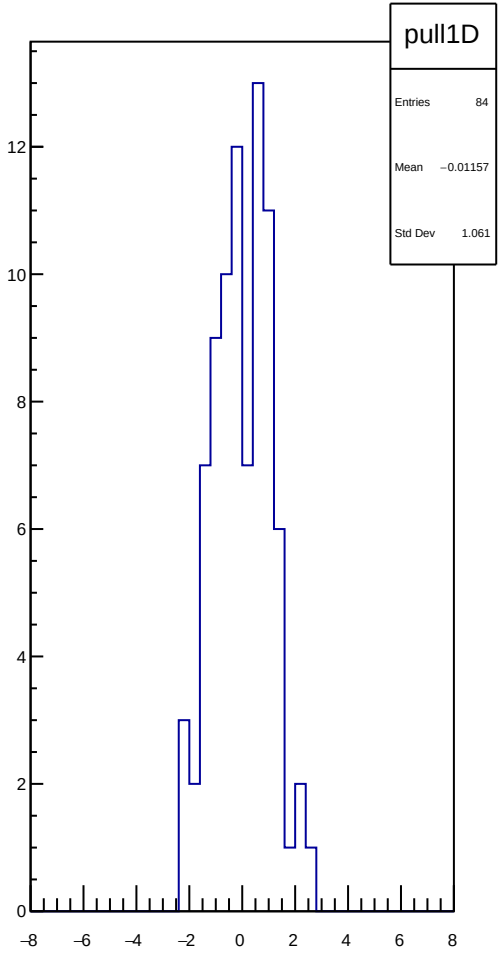

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 9918 / 83
p0 547.1 ± 0.4303
680
660
640
620
600
580
560
540
520
500
480
460

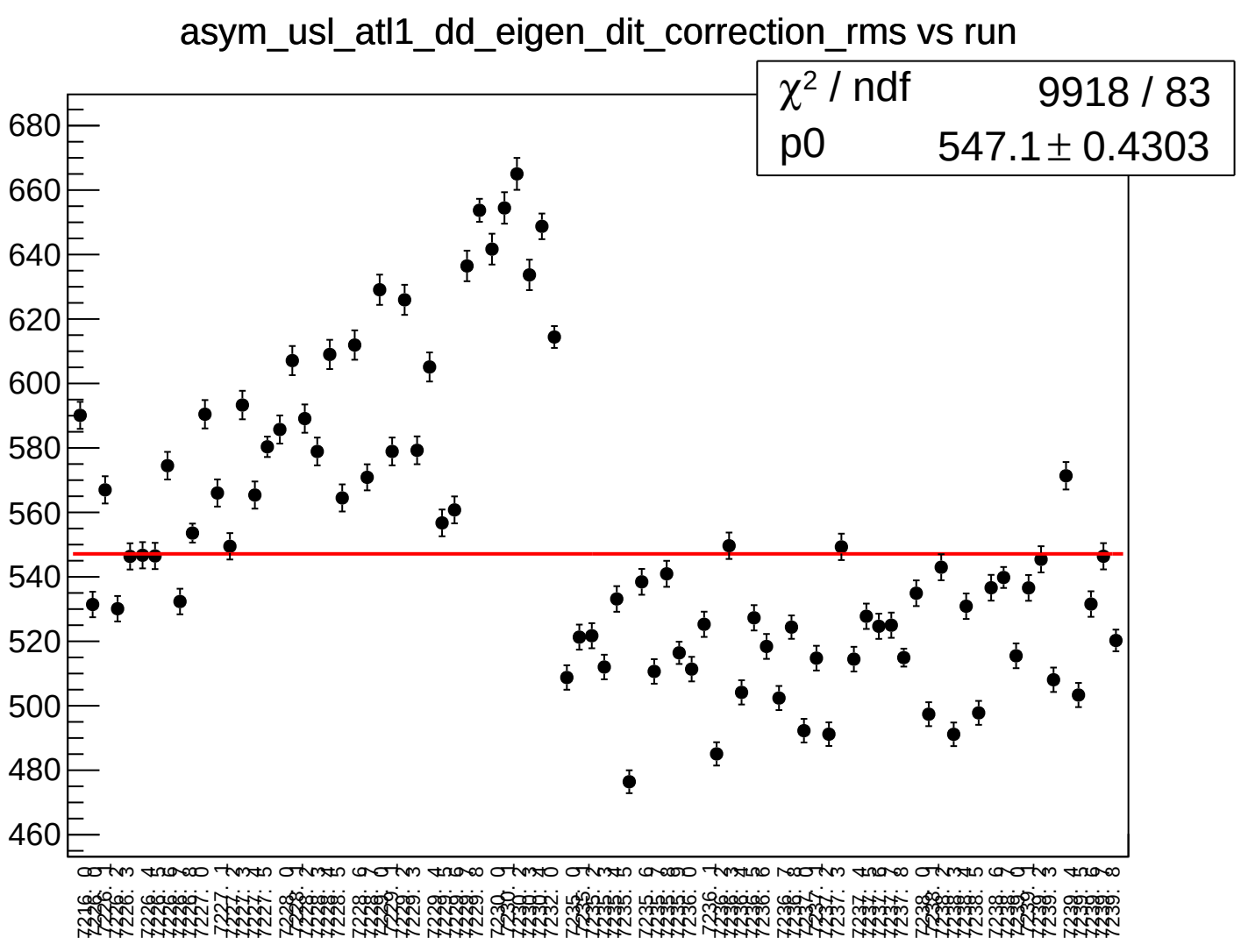

eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 87.77 / 83
p0 −1829 ± 1223
pull
Entries 84
Mean 81.91
Std Dev 0

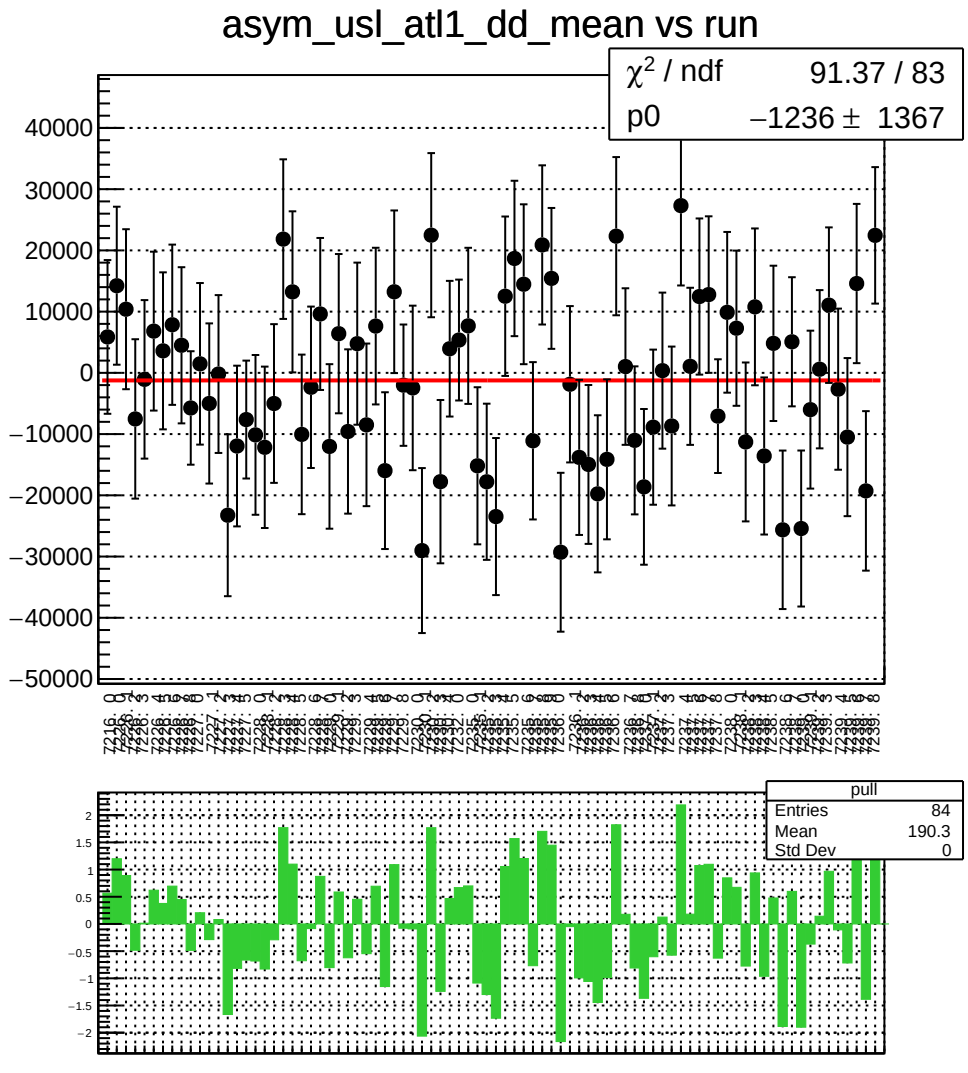

pull1D
Entries 84
Mean −0.007443
Std Dev 1.022

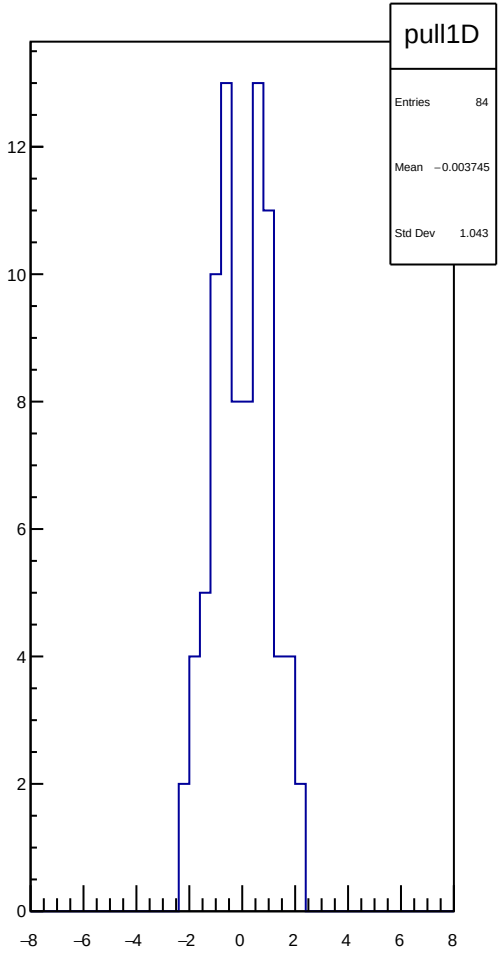

eigen_dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 93.61 / 83
p0 1103 ± 0.8648
1140
1130
1120
1110
1100
1090
1080

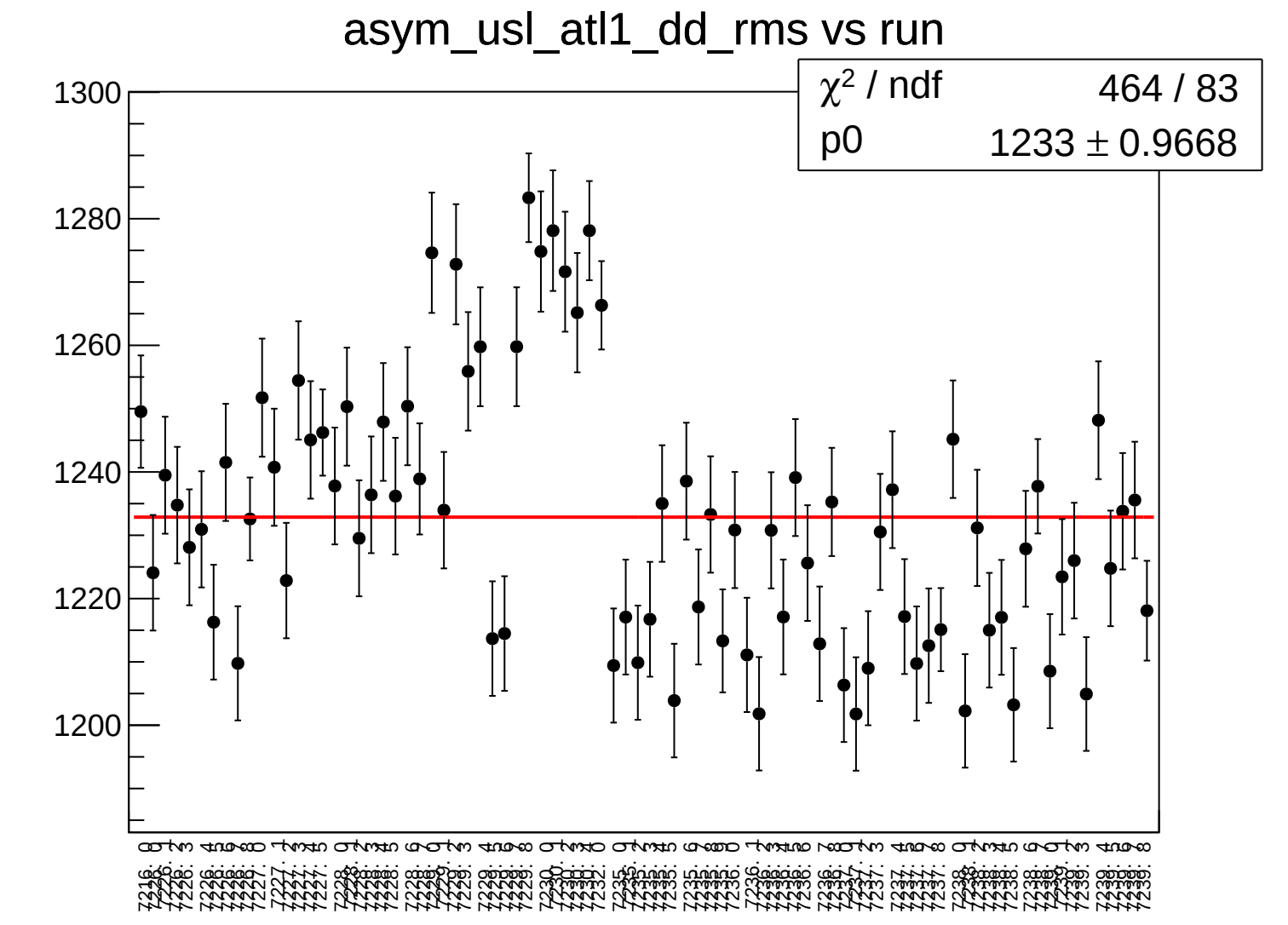

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 94.58 / 83
p0 −539.3 ± 608.6
pull
Entries 84
Mean −12.73
Std Dev 47.94

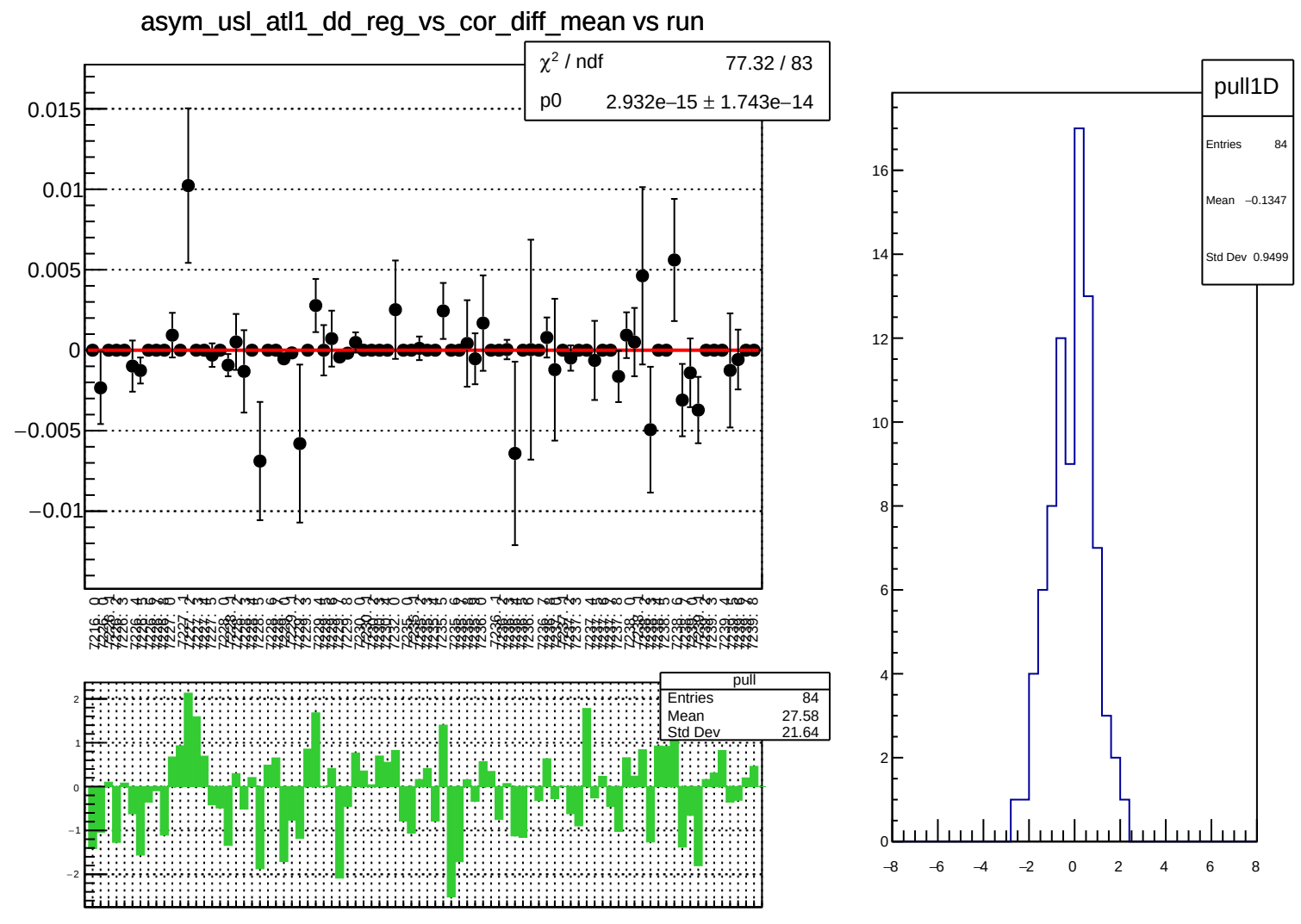

pull1D
Entries 84
Mean −0.01157
Std Dev 1.061

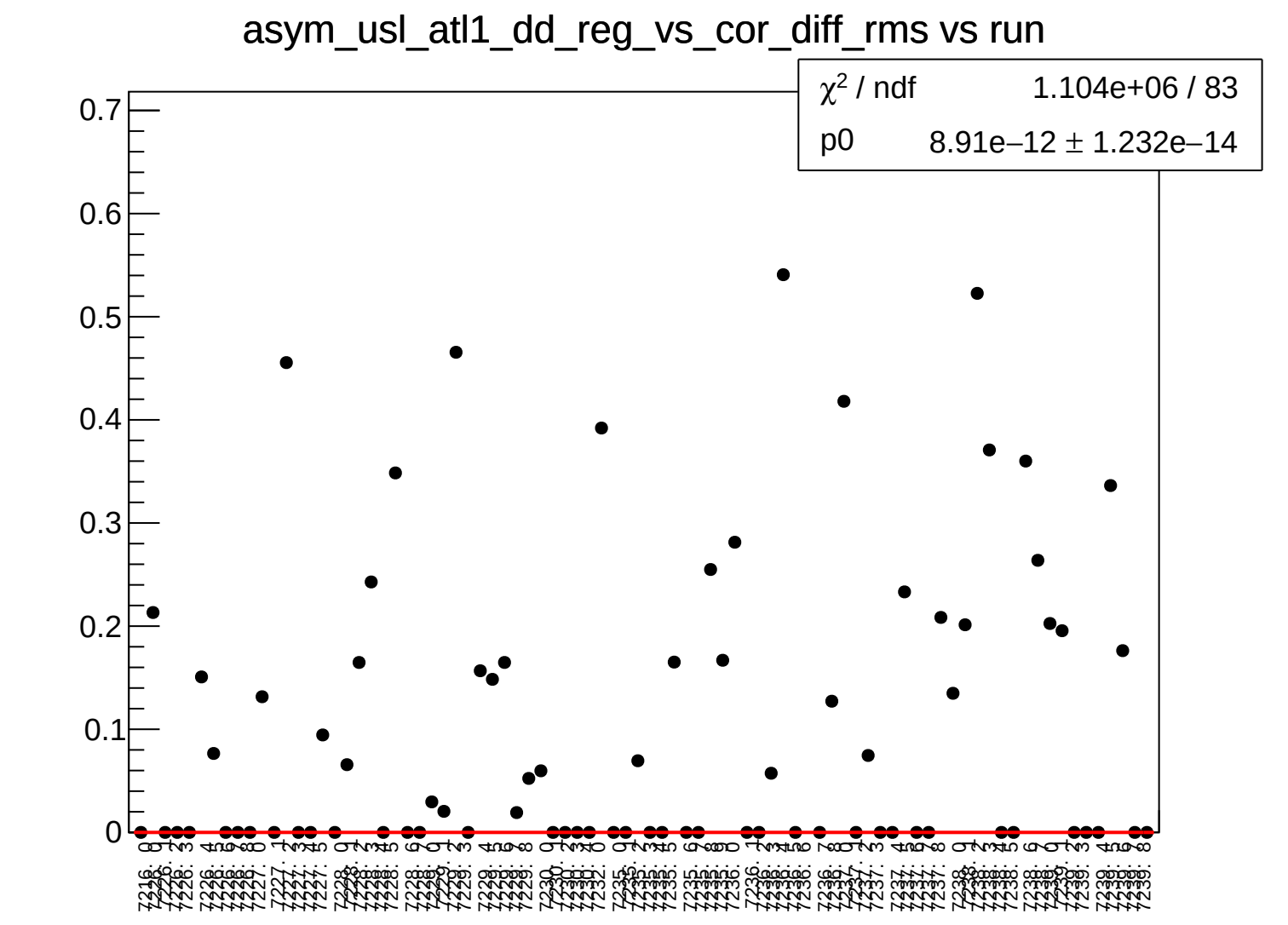

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 9918 / 83
p0 547.1 ± 0.4303
680
660
640
620
600
580
560
540
520
500
480
460

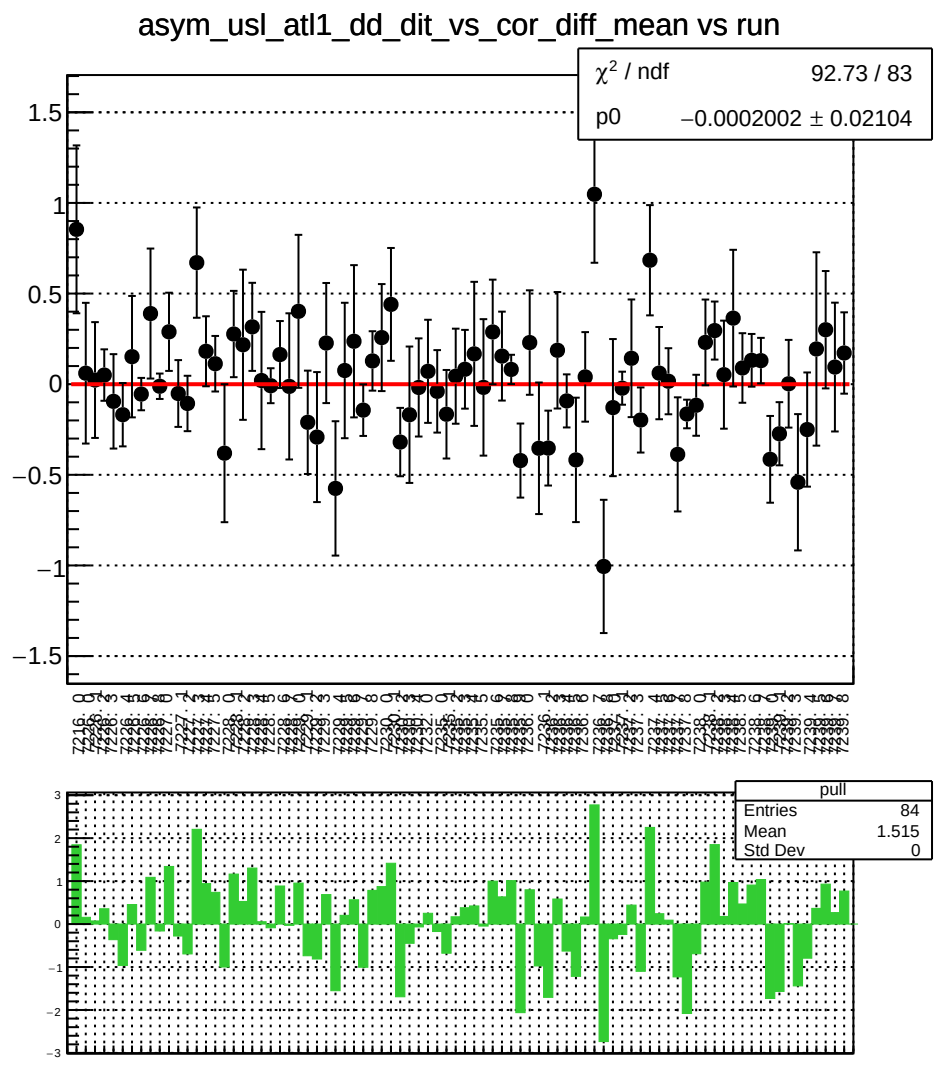

asym_usl_atl1_dd_mean vs run
χ^2 / ndf 91.37 / 83
p0 −1236 ± 1367
pull
Entries 84
Mean 190.3
Std Dev 0

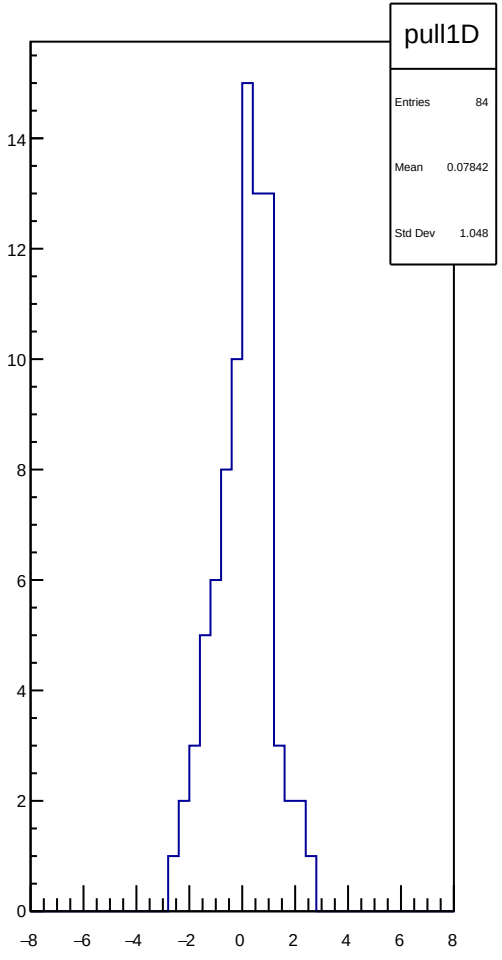

pull1D
Entries 84
Mean −0.003745
Std Dev 1.043

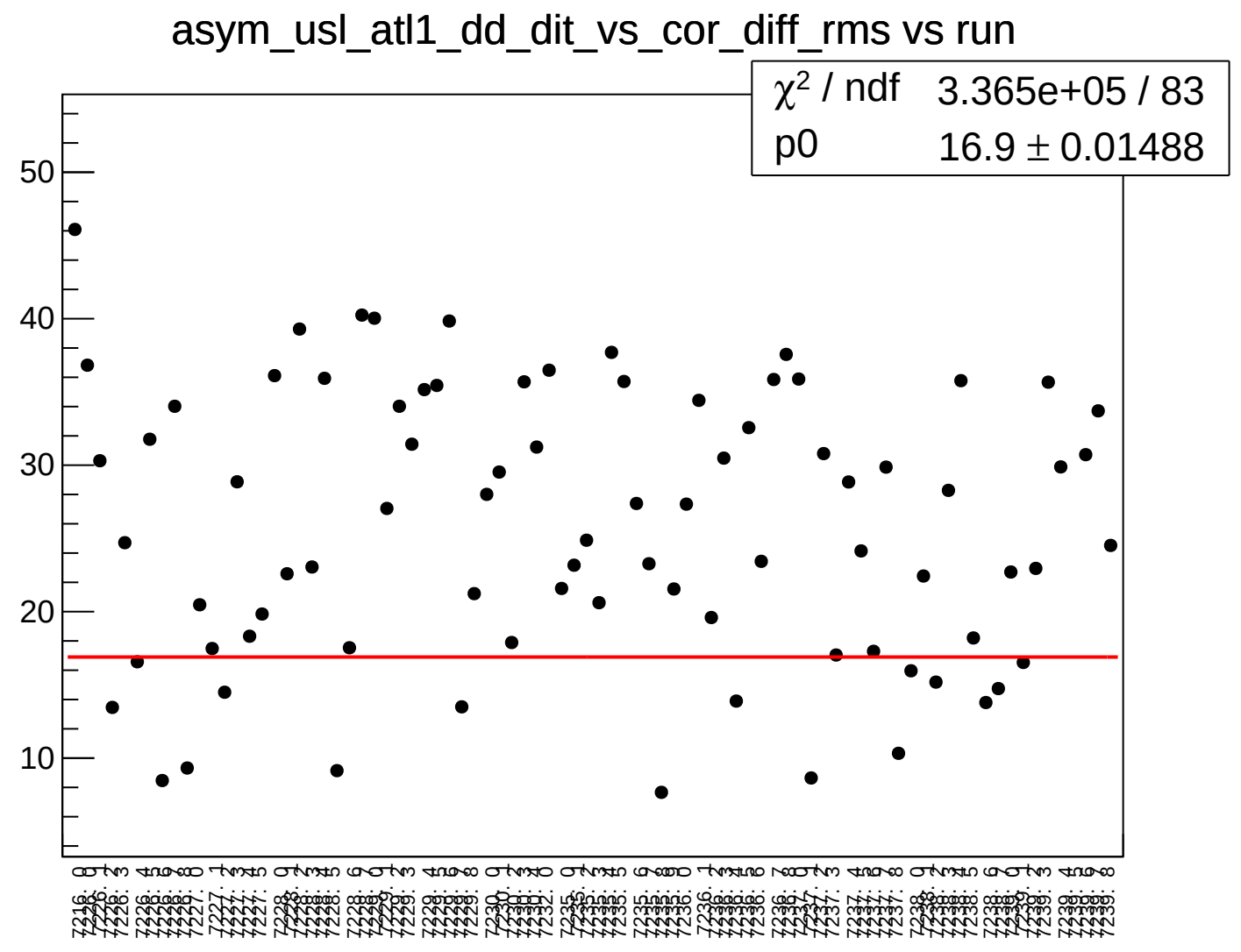

asym_usl_atl1_dd_rms vs run
χ² / ndf 464 / 83
p0 1233 ± 0.9668
1300
1280
1260
1240
1220
1200

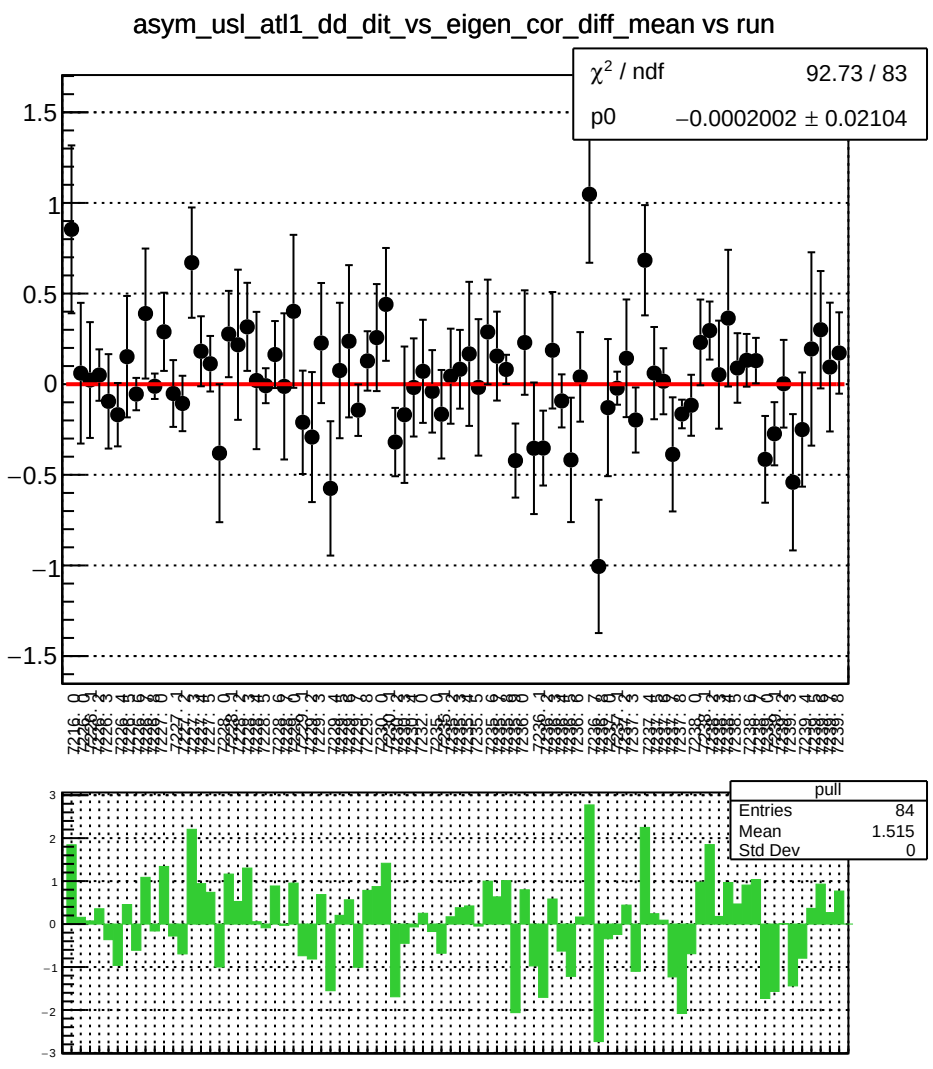

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 77.32 / 83
p0 2.932e−15 ± 1.743e−14
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 84
Mean 27.58
Std Dev 21.64
pull1D
Entries 84
Mean −0.1347
Std Dev 0.9499

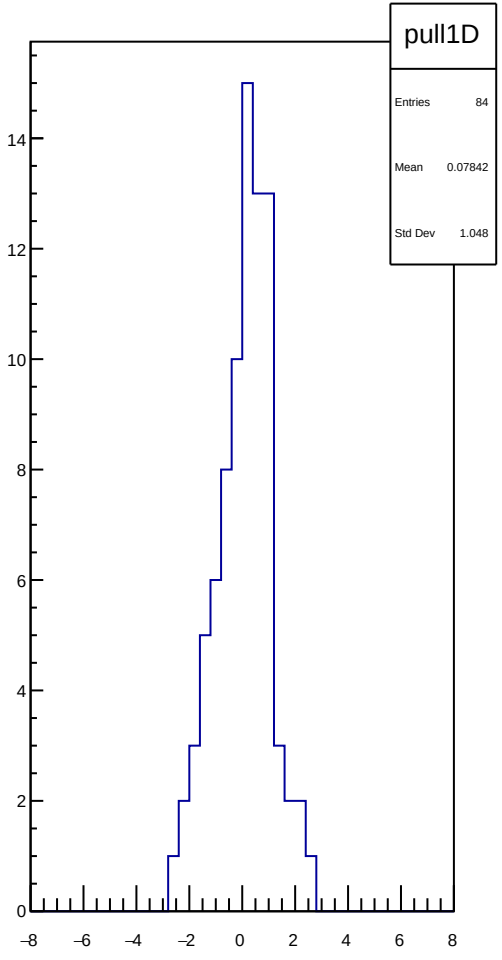

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.104e+06 / 83
p0 8.91e−12 ± 1.232e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

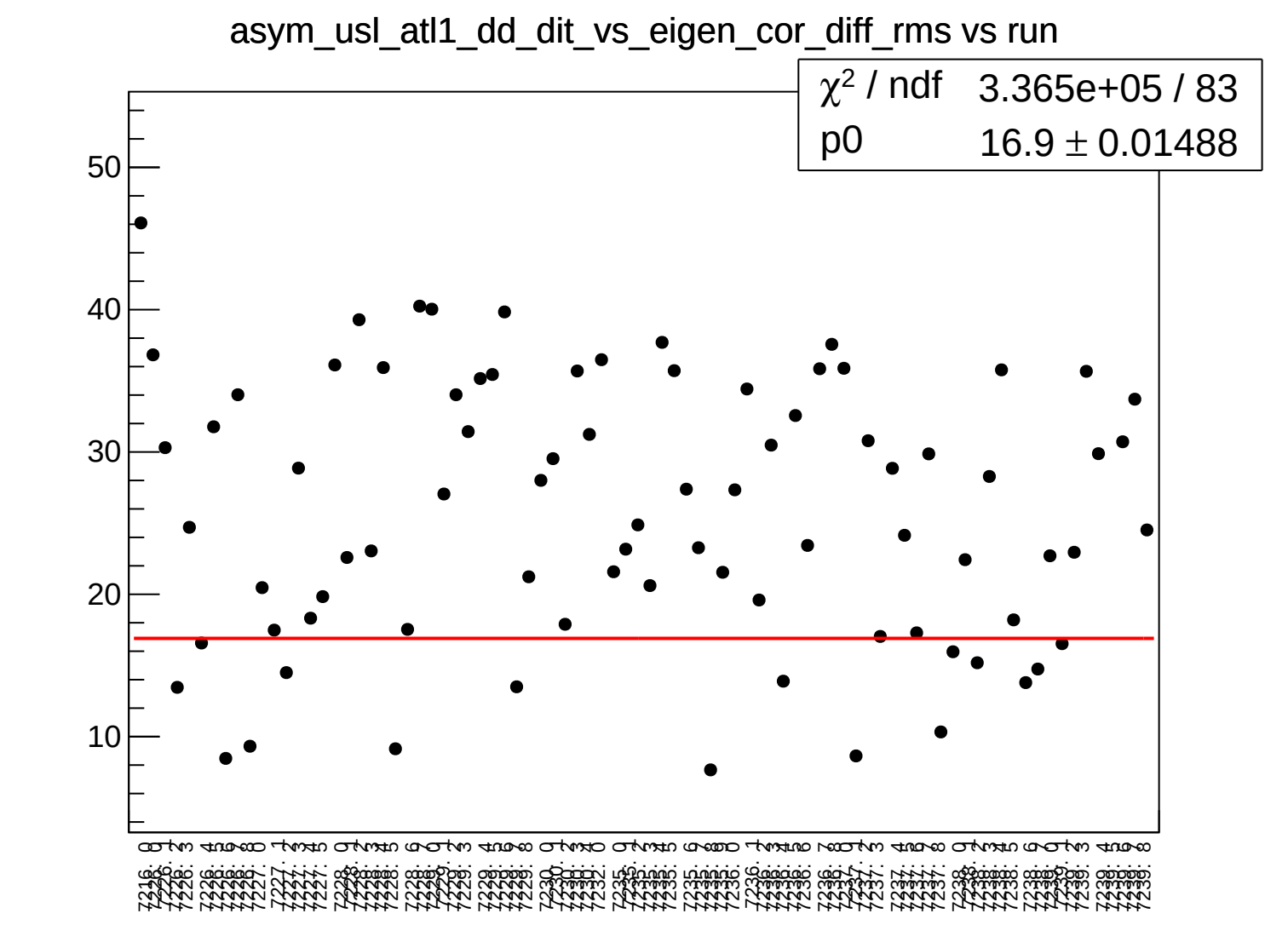

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 92.73 / 83
p0 −0.0002002 ± 0.02104
pull
Entries 84
Mean 1.515
Std Dev 0

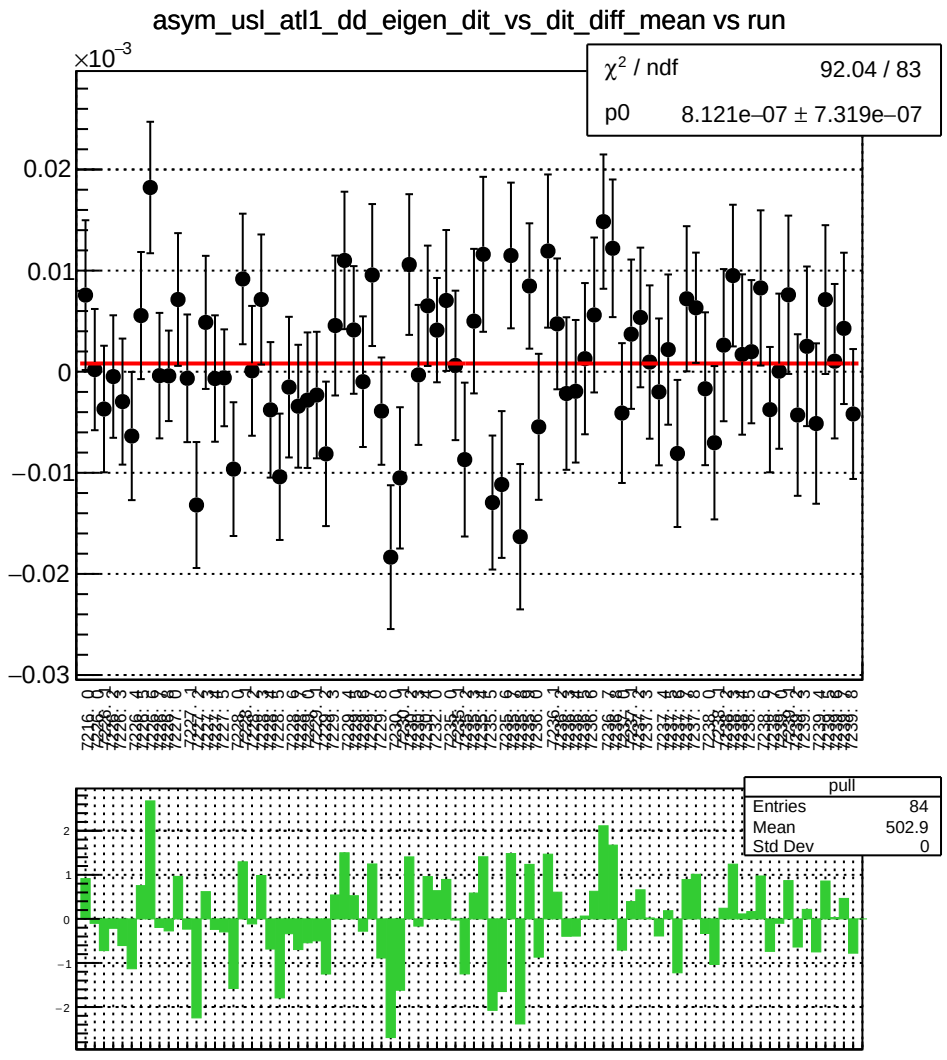

pull1D
Entries 84
Mean 0.07842
Std Dev 1.048

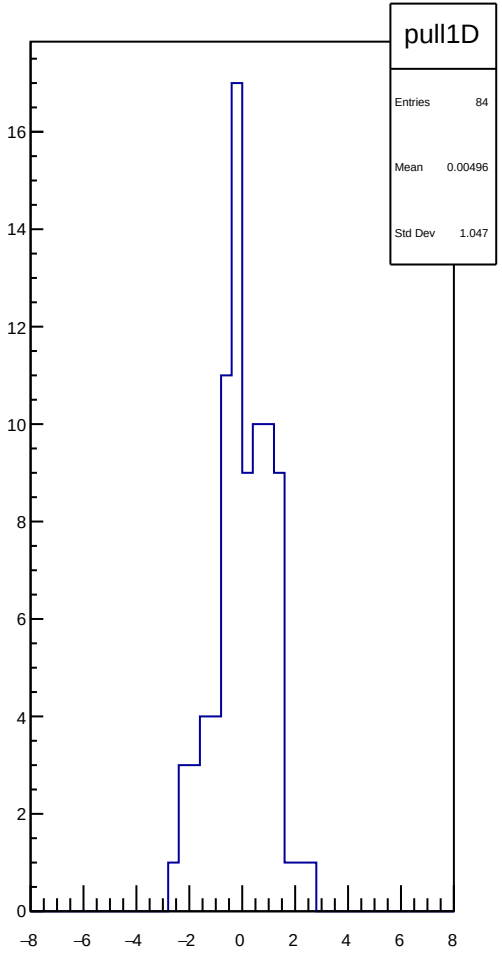

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.365e+05 / 83
p0 16.9 ± 0.01488
50
40
30
20
10

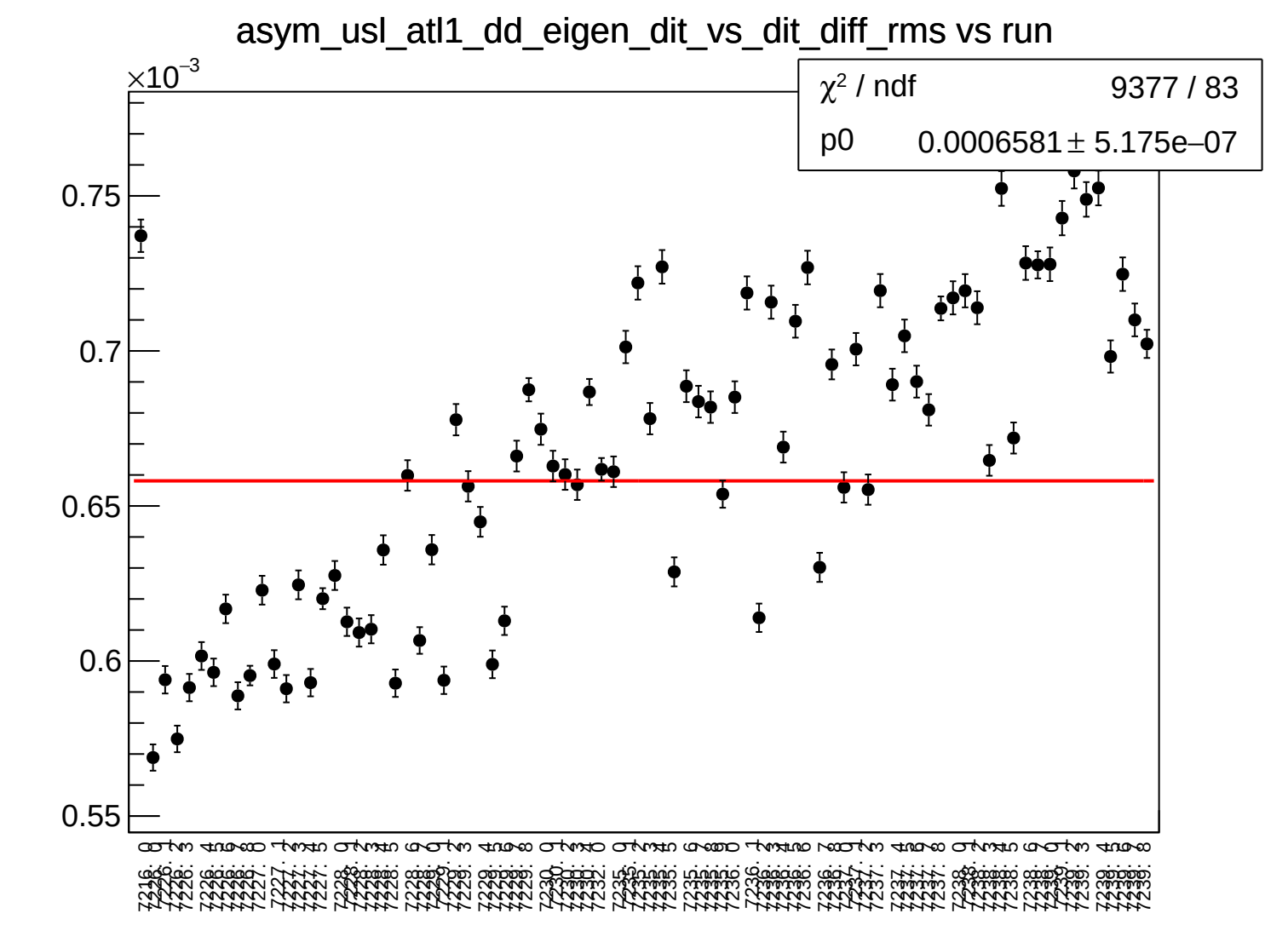

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.73 / 83
p0 −0.0002002 ± 0.02104
pull
Entries 84
Mean 1.515
Std Dev 0

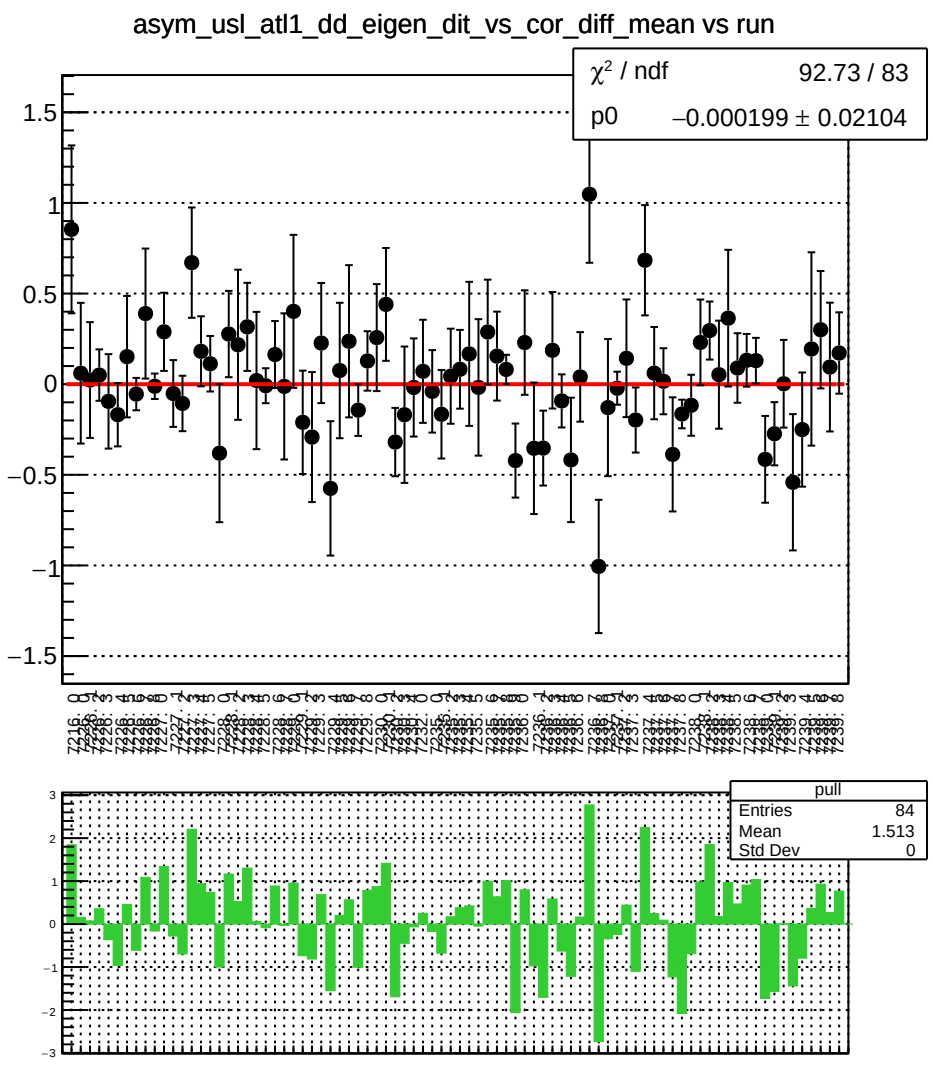

pull1D
Entries 84
Mean 0.07842
Std Dev 1.048

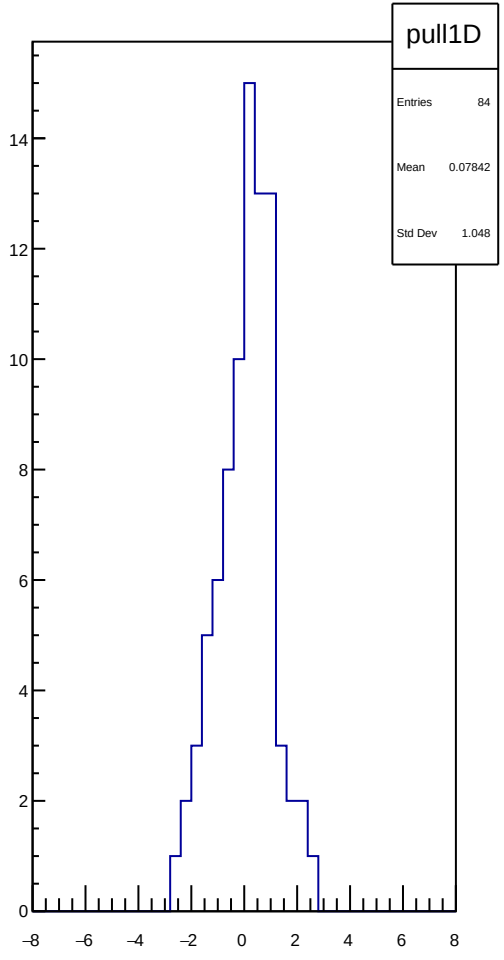

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.365e+05 / 83
p0 16.9 ± 0.01488
50
40
30
20
10

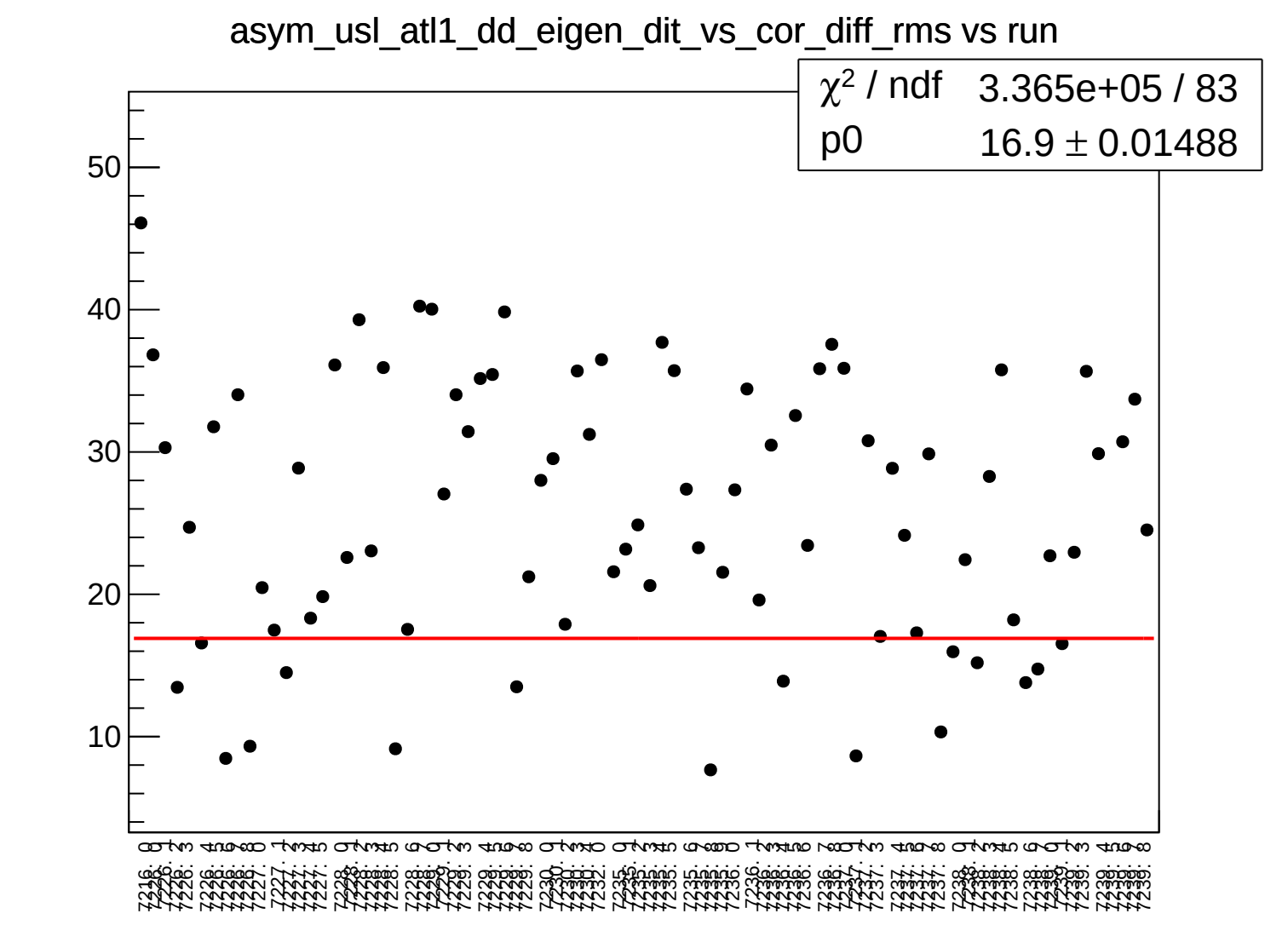

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.04 / 83
p0 8.121e−07 ± 7.319e−07
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 84
Mean 502.9
Std Dev 0
2
1
0
−1
−2

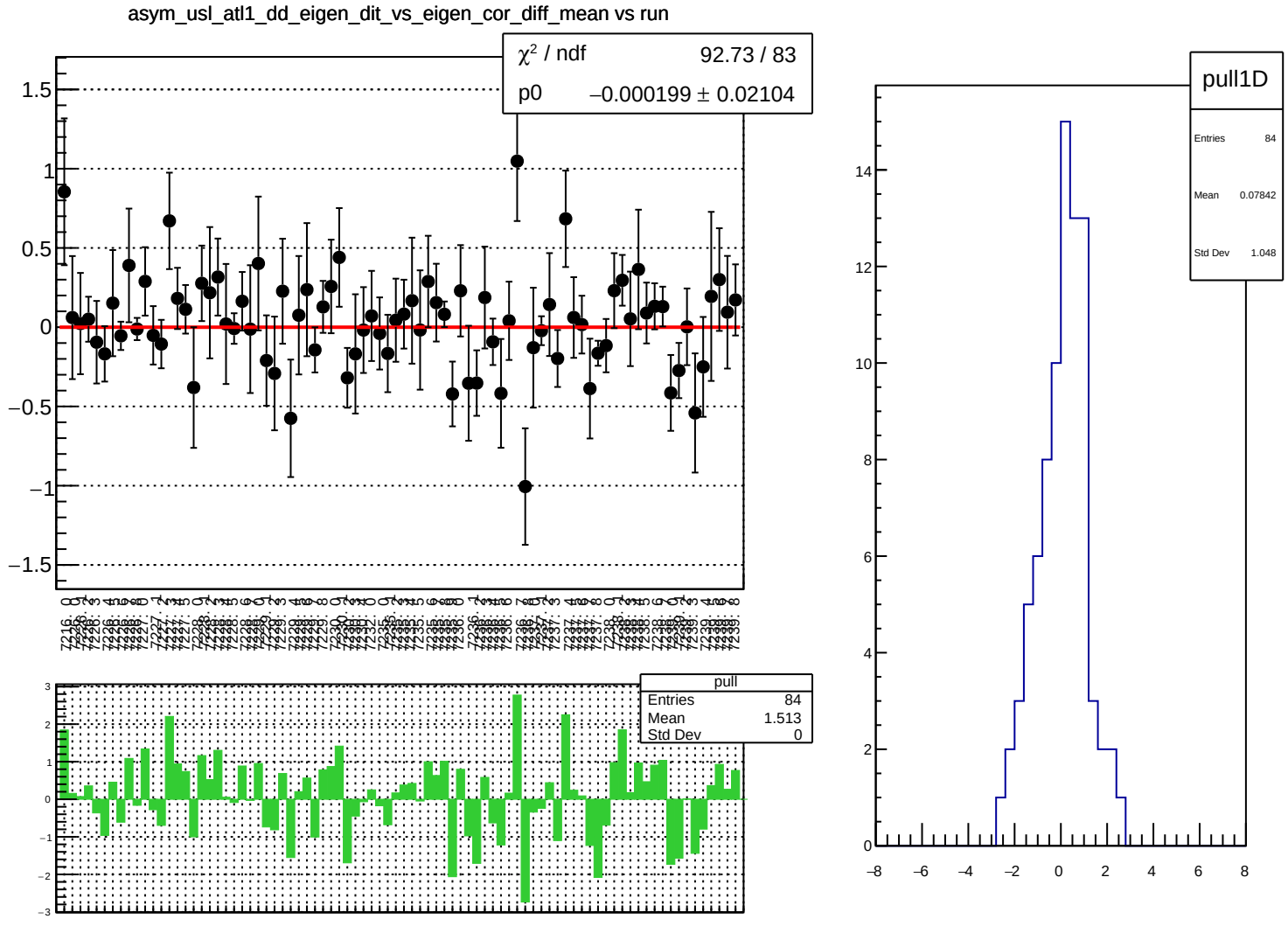

pull1D
Entries 84
Mean 0.00496
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

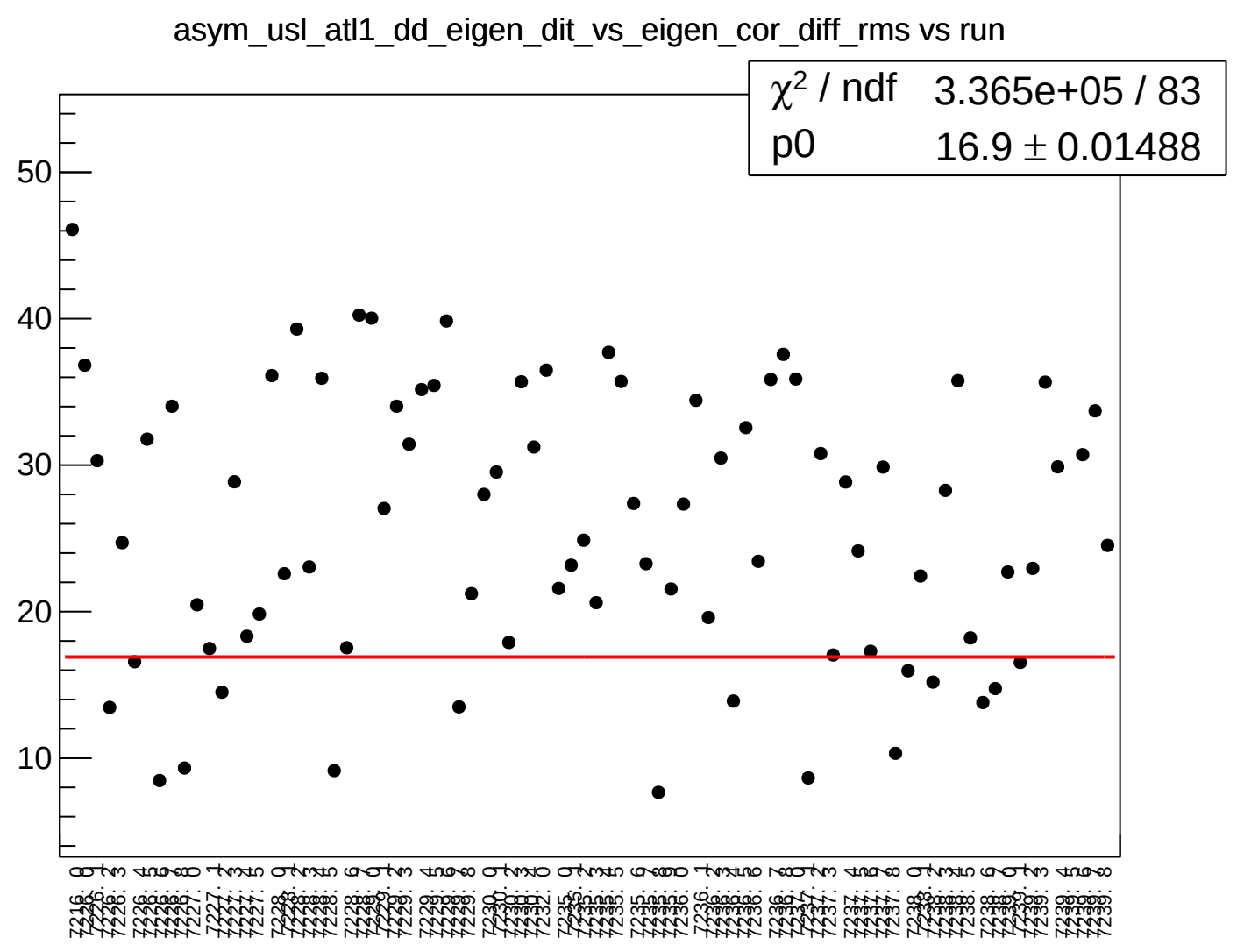

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 9377 / 83
p0 0.0006581 ± 5.175e–07
0.75
0.7
0.65
0.6
0.55

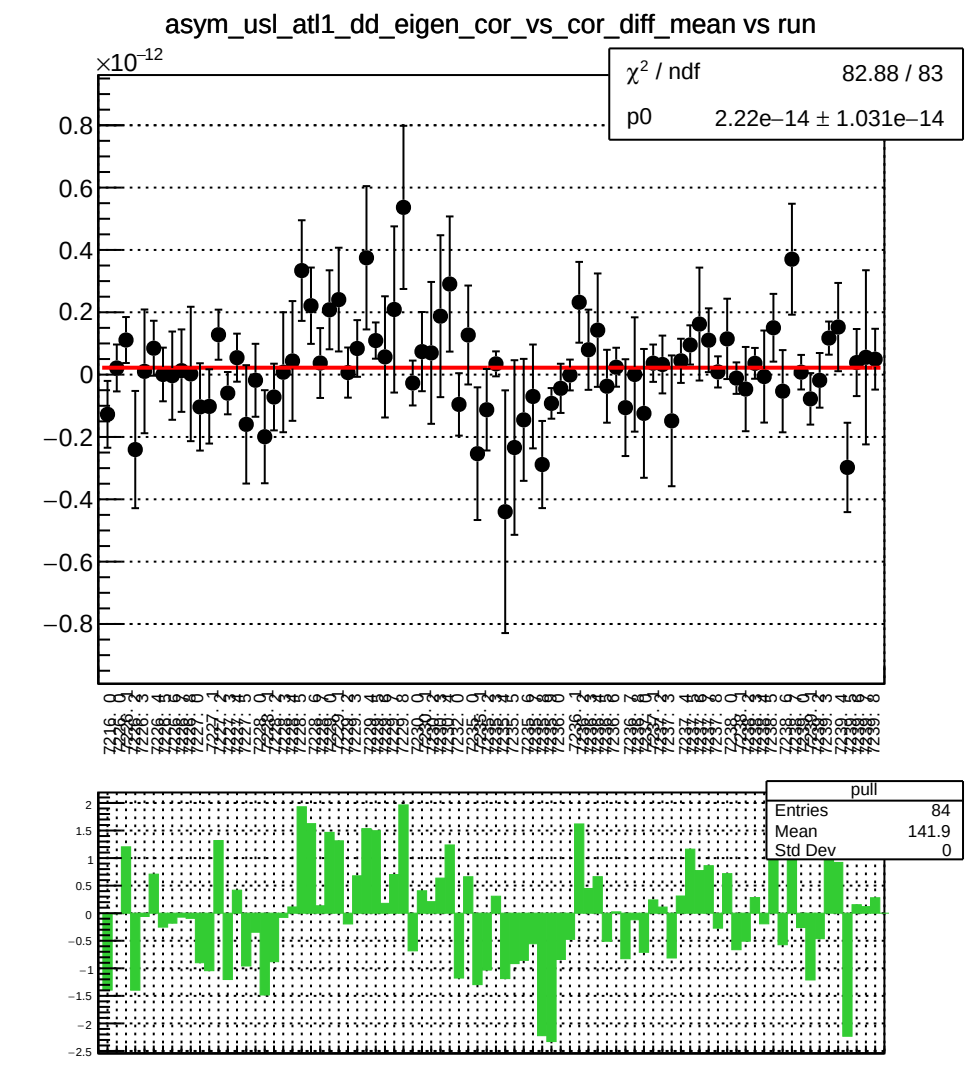

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.73 / 83
p0 −0.000199 ± 0.02104
pull
Entries 84
Mean 1.513
Std Dev 0

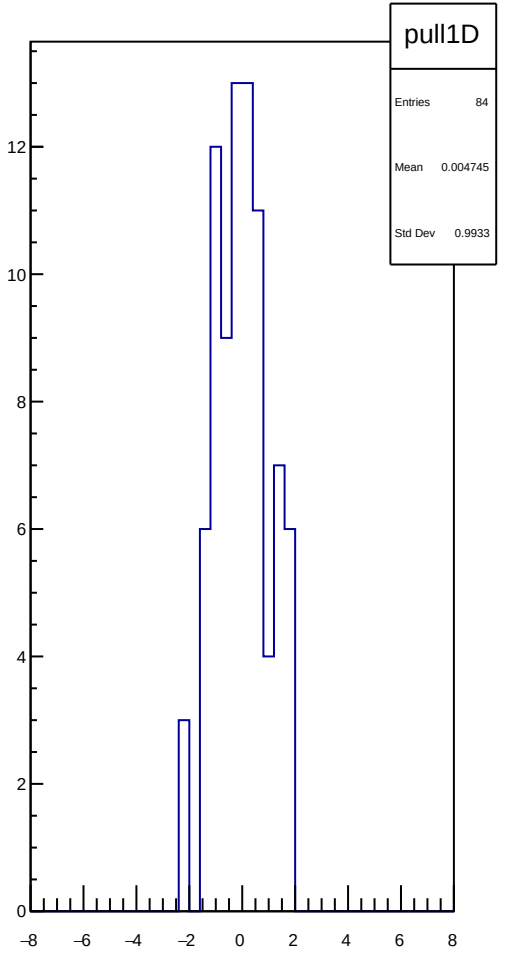

pull1D
Entries 84
Mean 0.07842
Std Dev 1.048

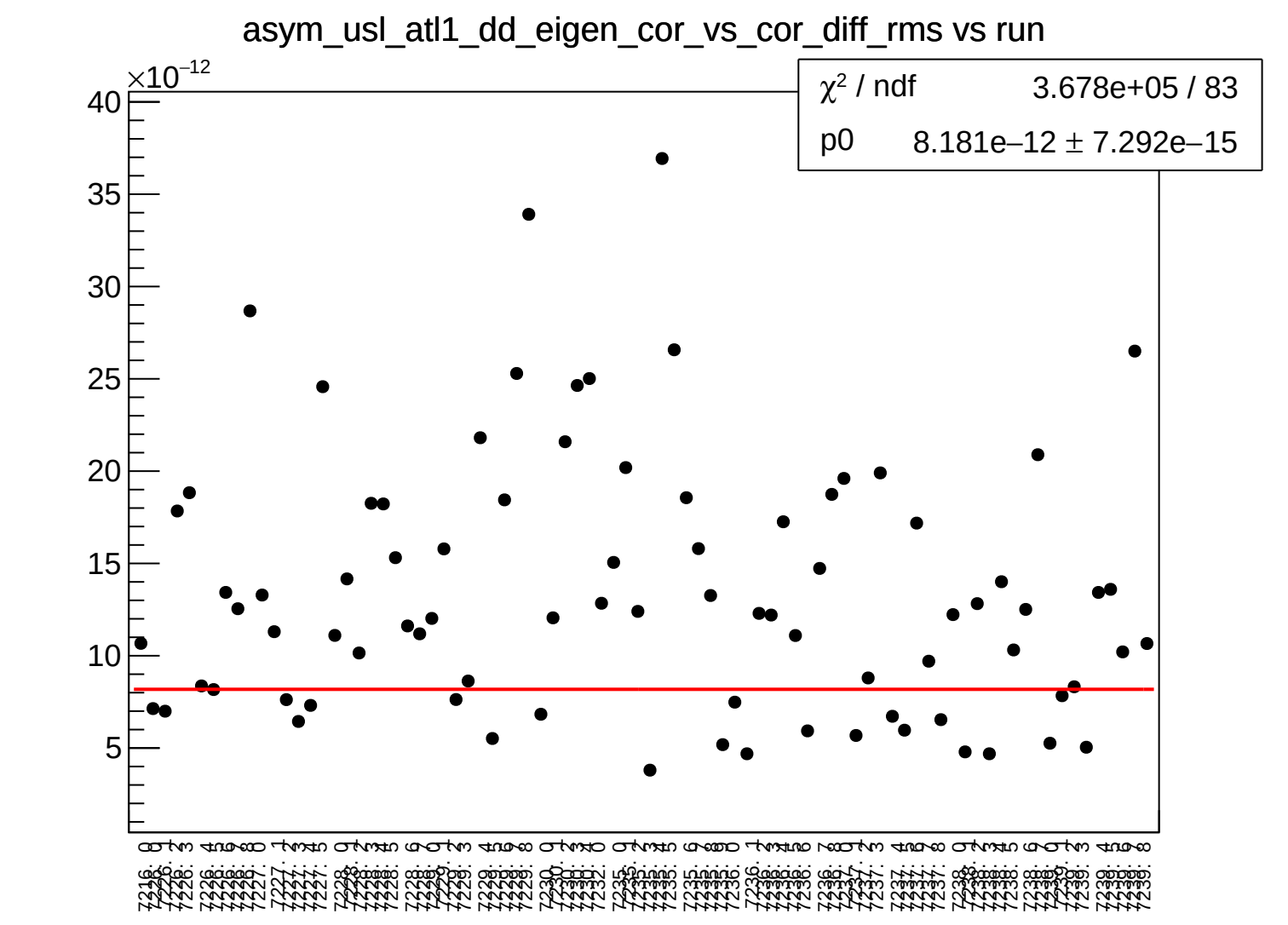

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.365e+05 / 83
p0 16.9 ± 0.01488
50
40
30
20
10

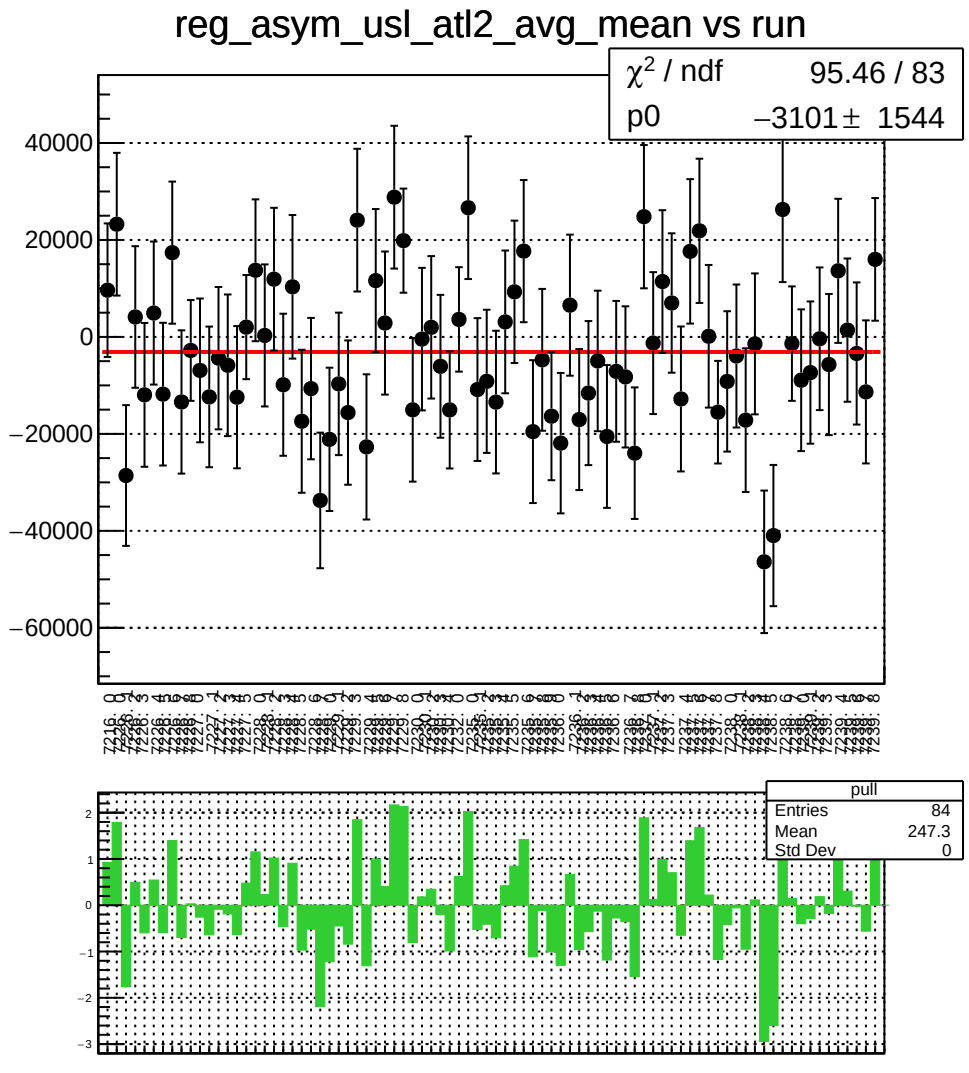

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.73 / 83
p0 −0.000199 ± 0.02104
pull
Entries 84
Mean 1.513
Std Dev 0
pull1D
Entries 84
Mean 0.07842
Std Dev 1.048

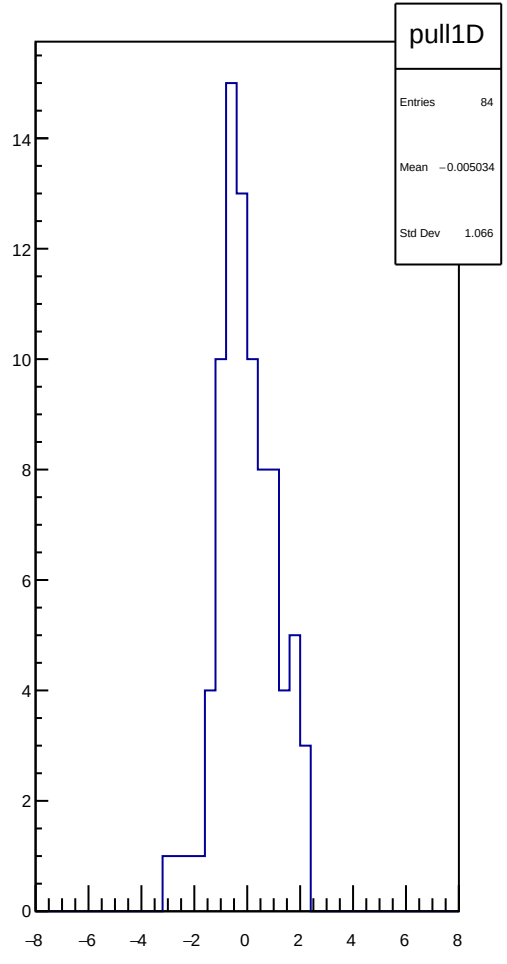

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.365e+05 / 83
p0 16.9 ± 0.01488
50
40
30
20
10

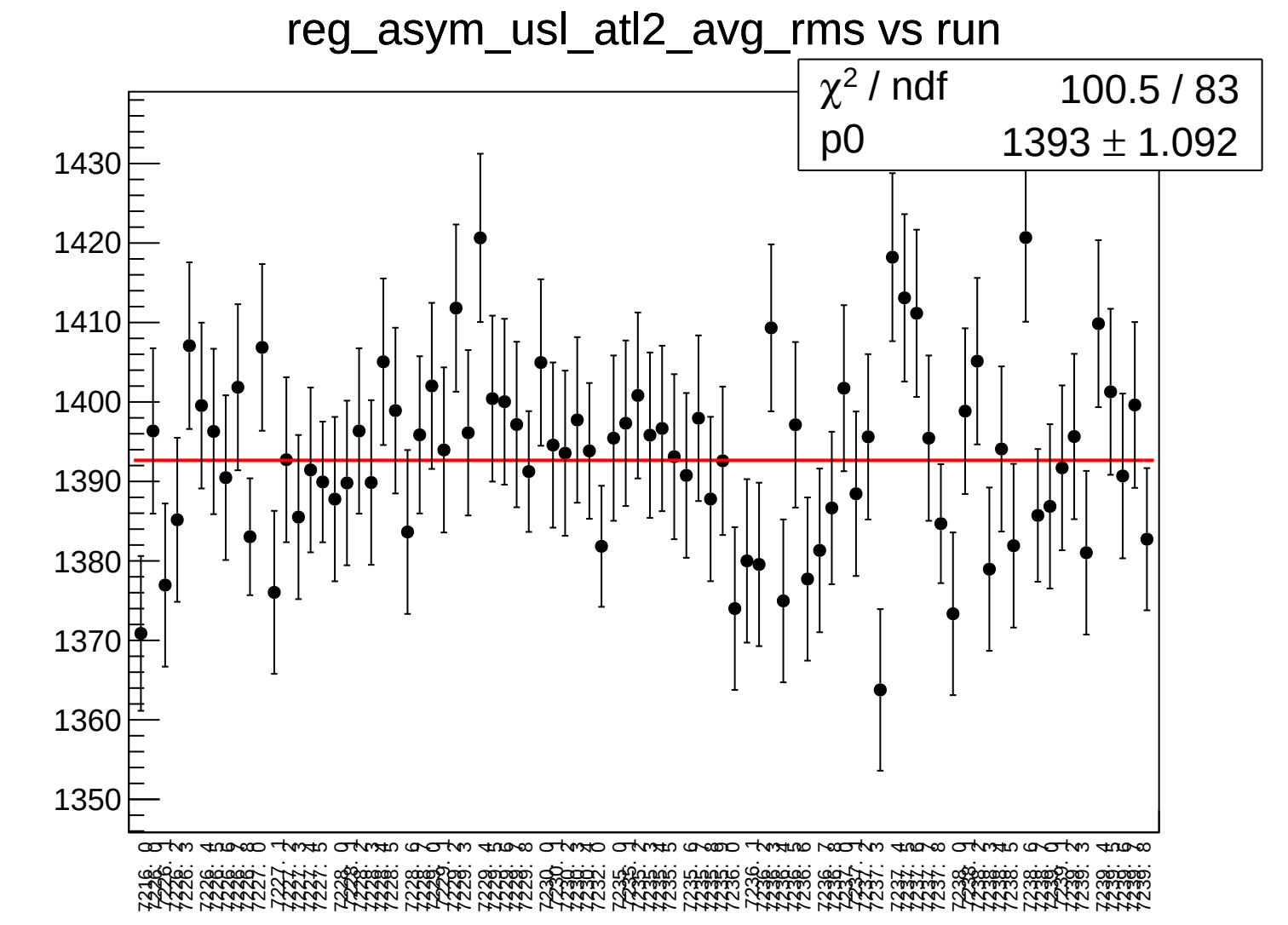

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.88 / 83
p0 2.22e−14 ± 1.031e−14
pull
Entries 84
Mean 141.9
Std Dev 0

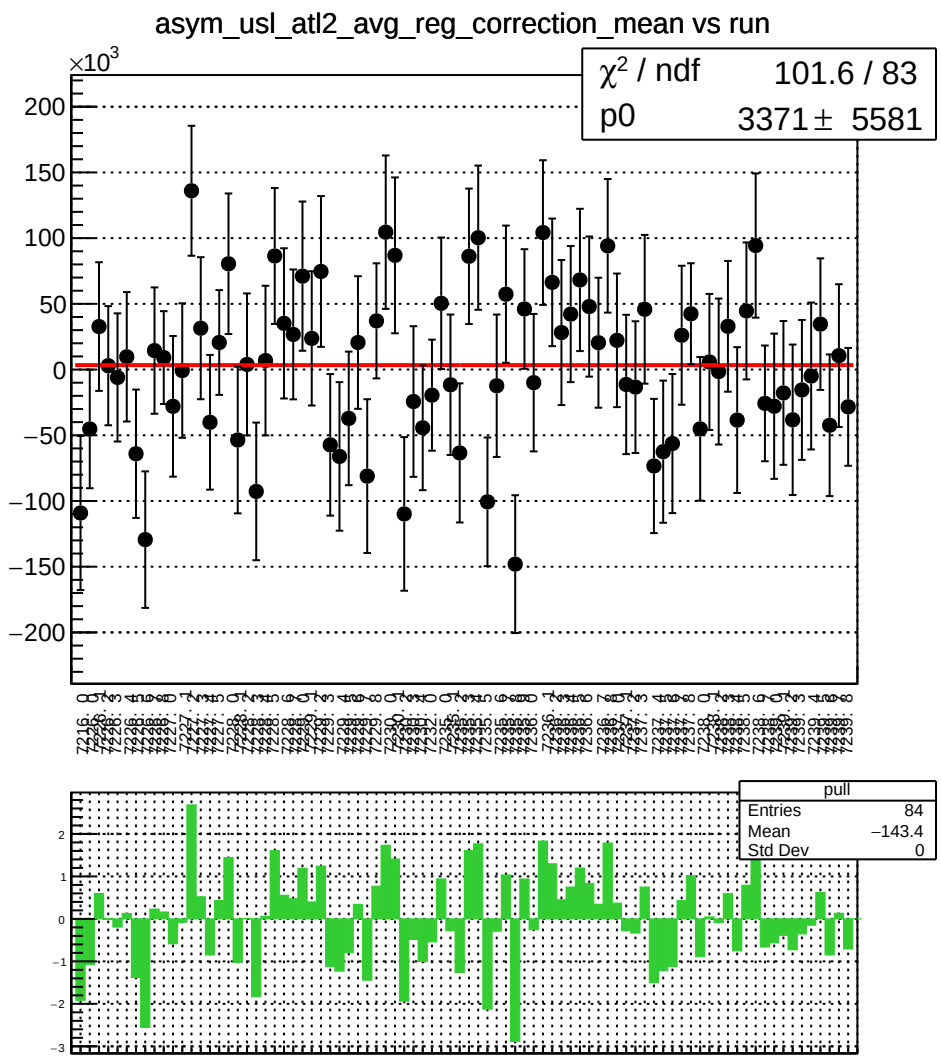

pull1D
Entries 84
Mean 0.004745
Std Dev 0.9933

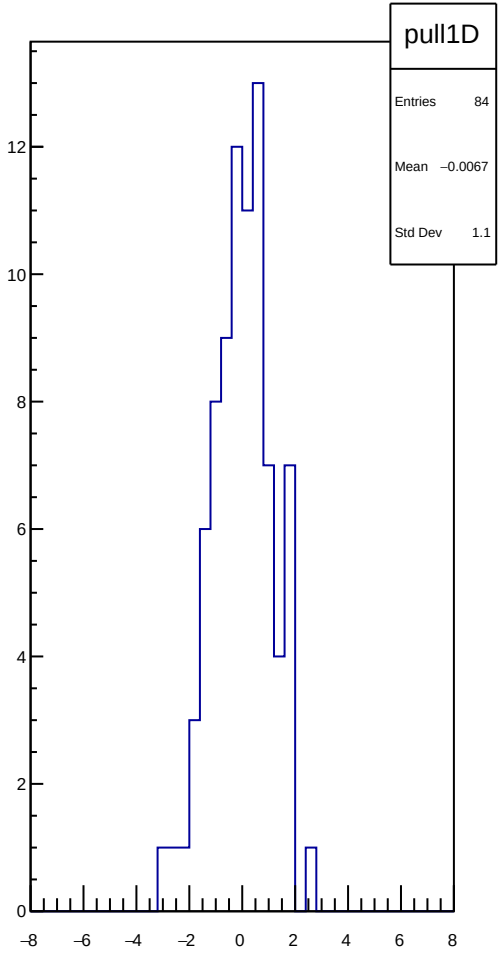

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.678e+05 / 83
p0 8.181e−12 ± 7.292e−15
40
35
30
25
20
15
10
5

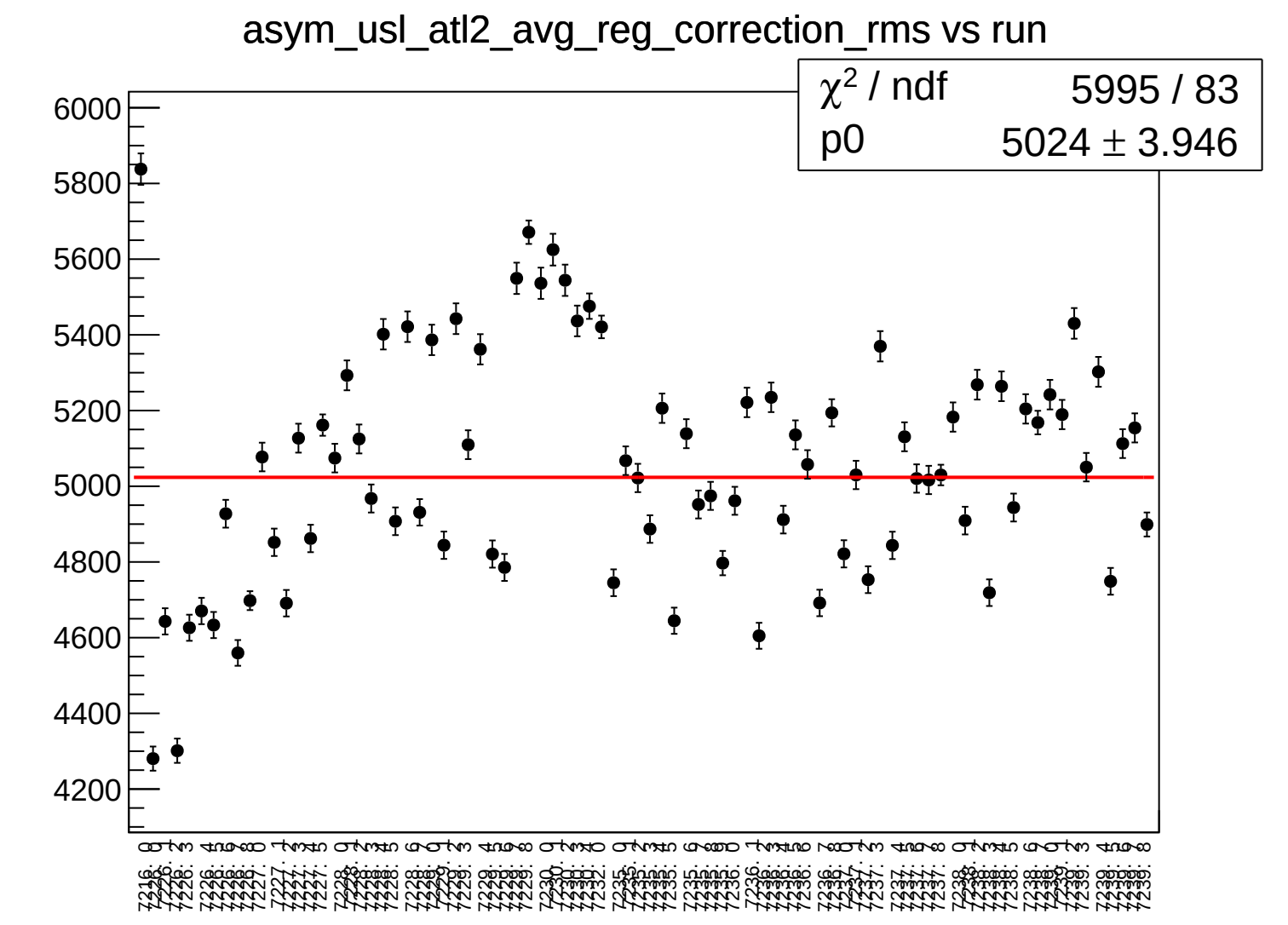

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 95.46 / 83
p0 −3101 ± 1544
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 247.3
Std Dev 0
2
1
0
−1
−2
−3

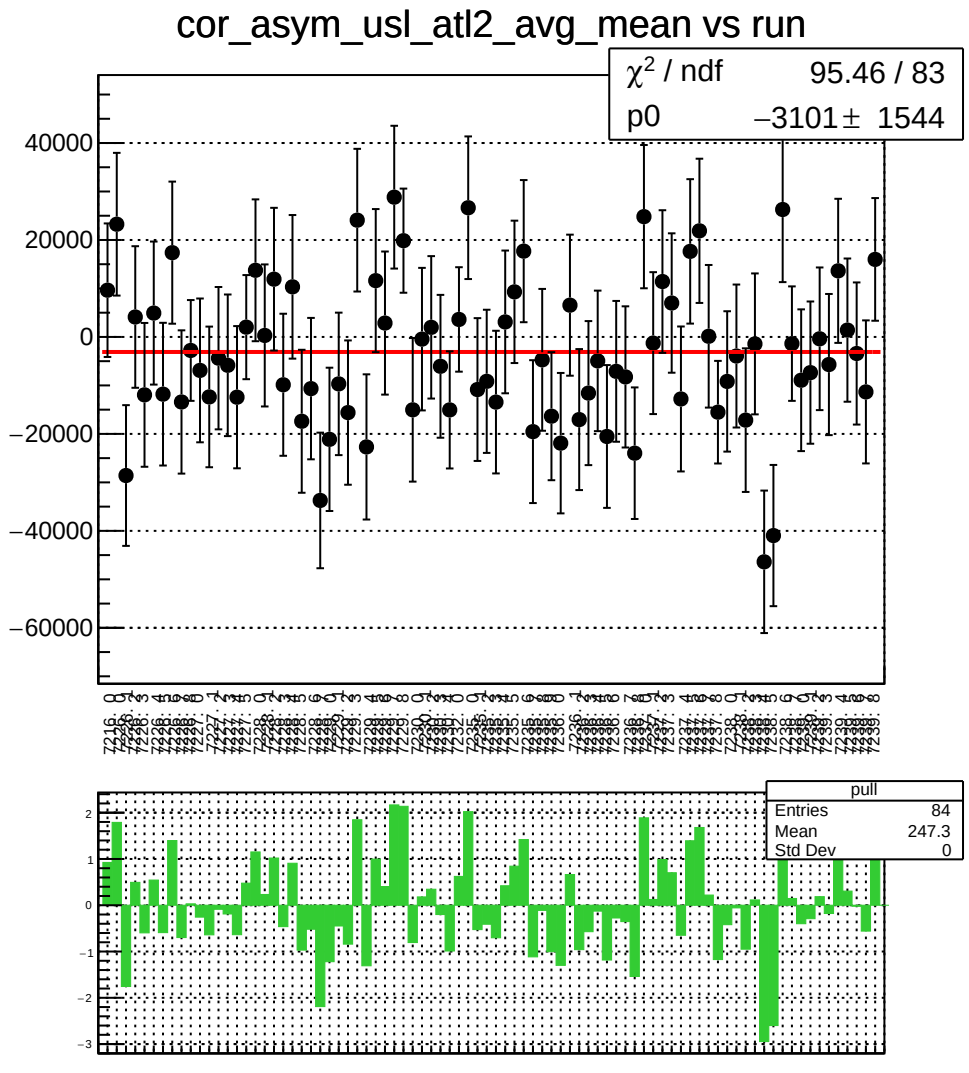

pull1D
Entries 84
Mean −0.005034
Std Dev 1.066
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

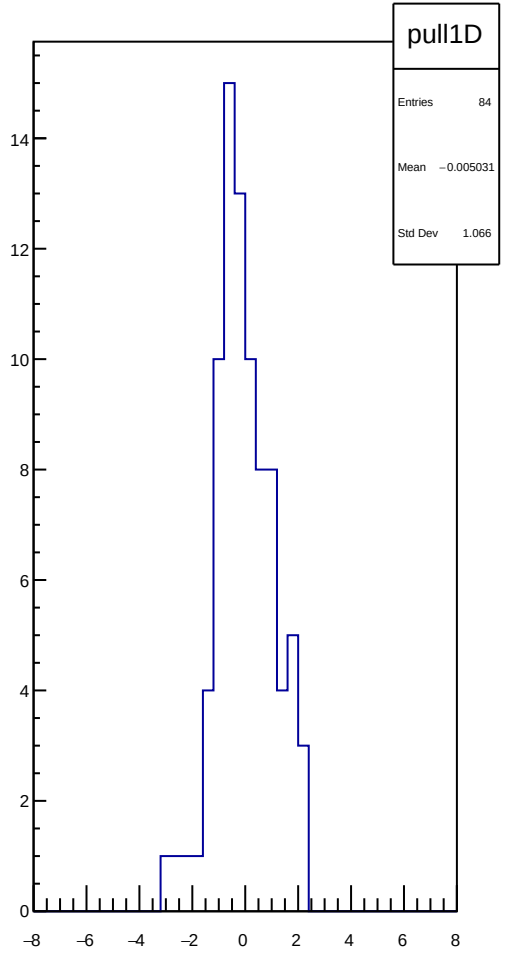

reg_asym_usl_atl2_avg_rms vs run
χ^2 / ndf 100.5 / 83
p0 1393 ± 1.092
1430
1420
1410
1400
1390
1380
1370
1360
1350

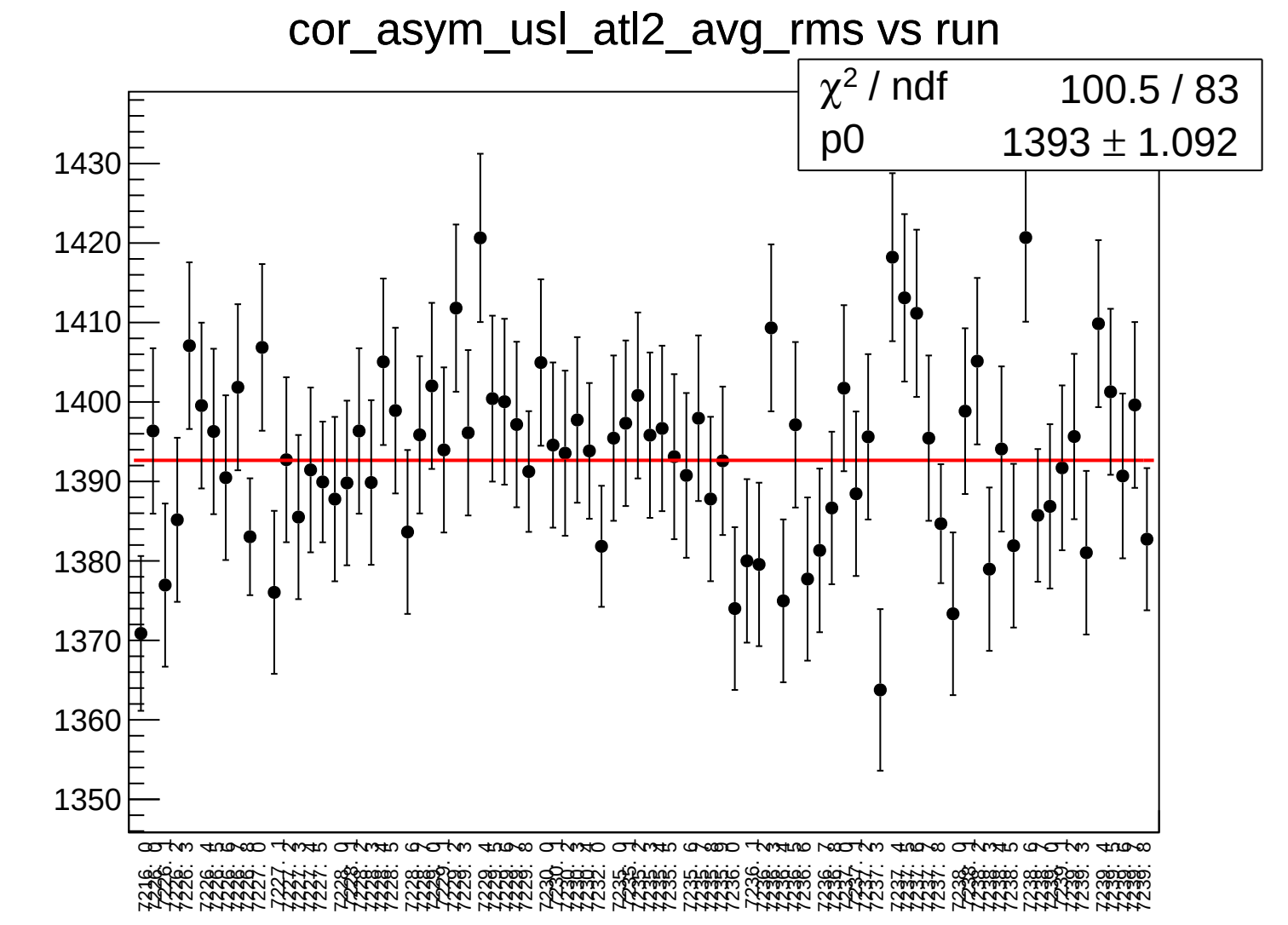

asym_usl_atl2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 101.6 / 83
p0 3371 ± 5581
pull
Entries 84
Mean −143.4
Std Dev 0

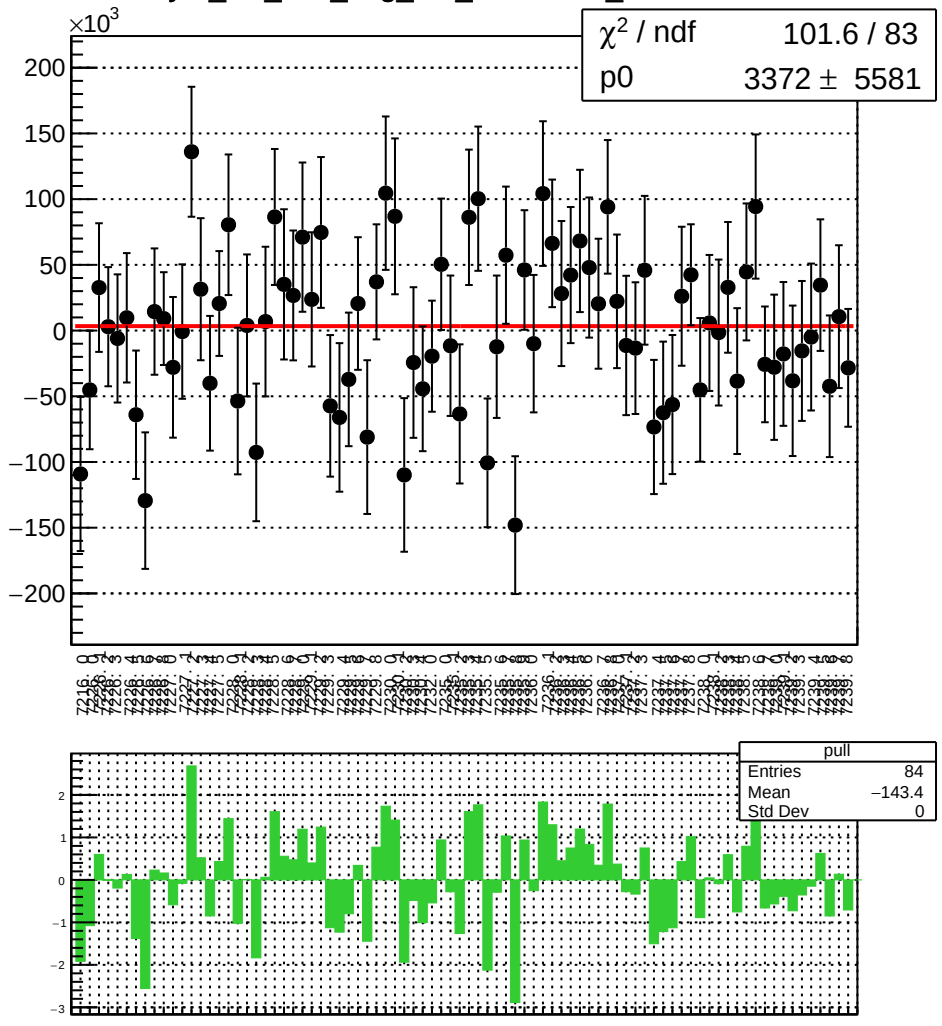

pull1D
Entries 84
Mean −0.0067
Std Dev 1.1

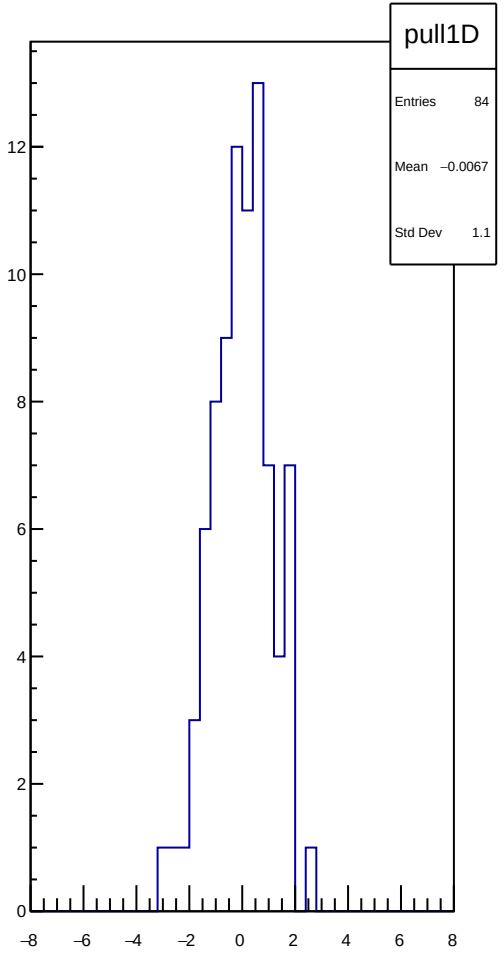

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 5995 / 83
p0 5024 ± 3.946
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

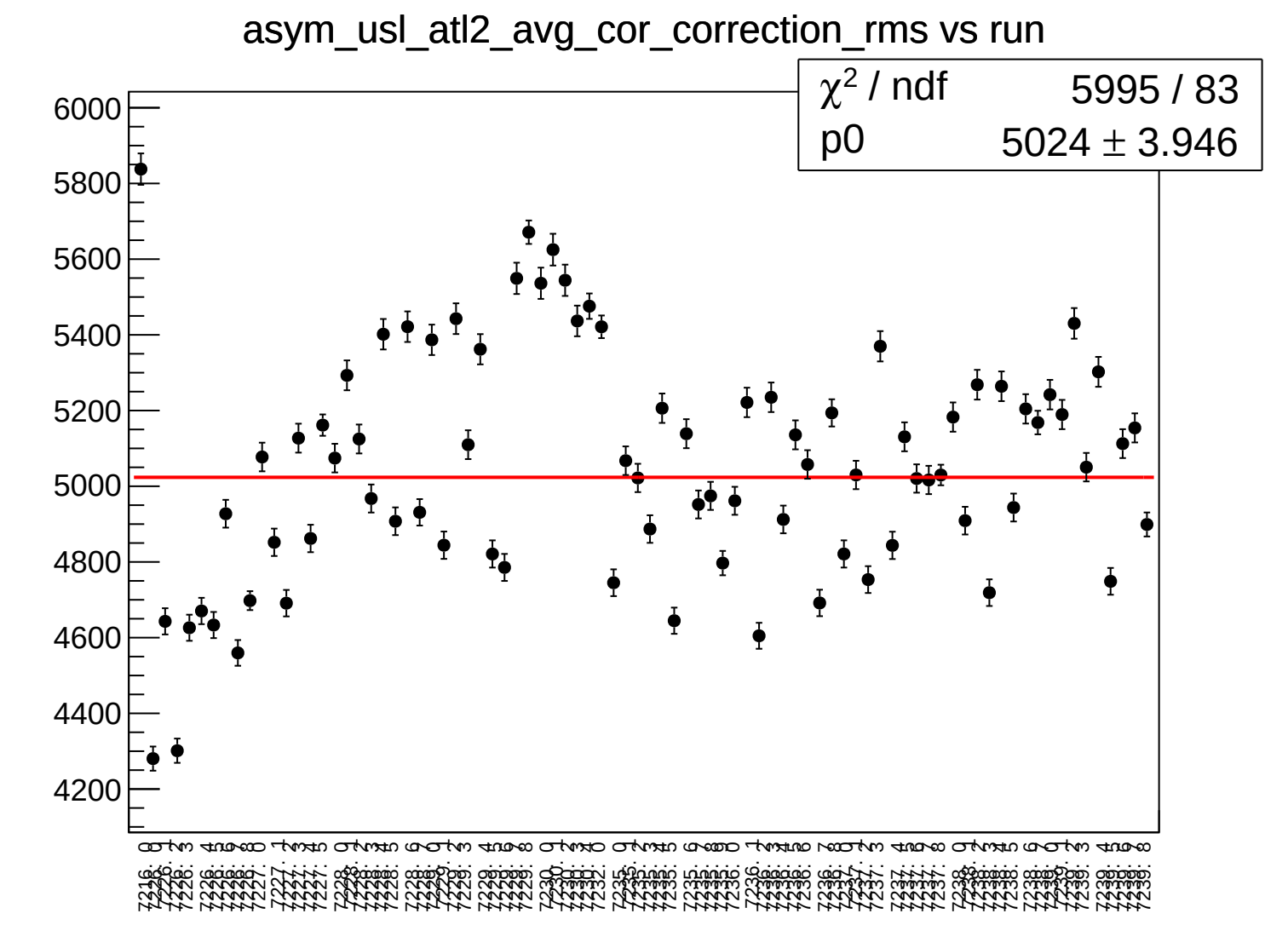

cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 95.46 / 83
p0 −3101 ± 1544
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 247.3
Std Dev 0
2
1
0
−1
−2
−3

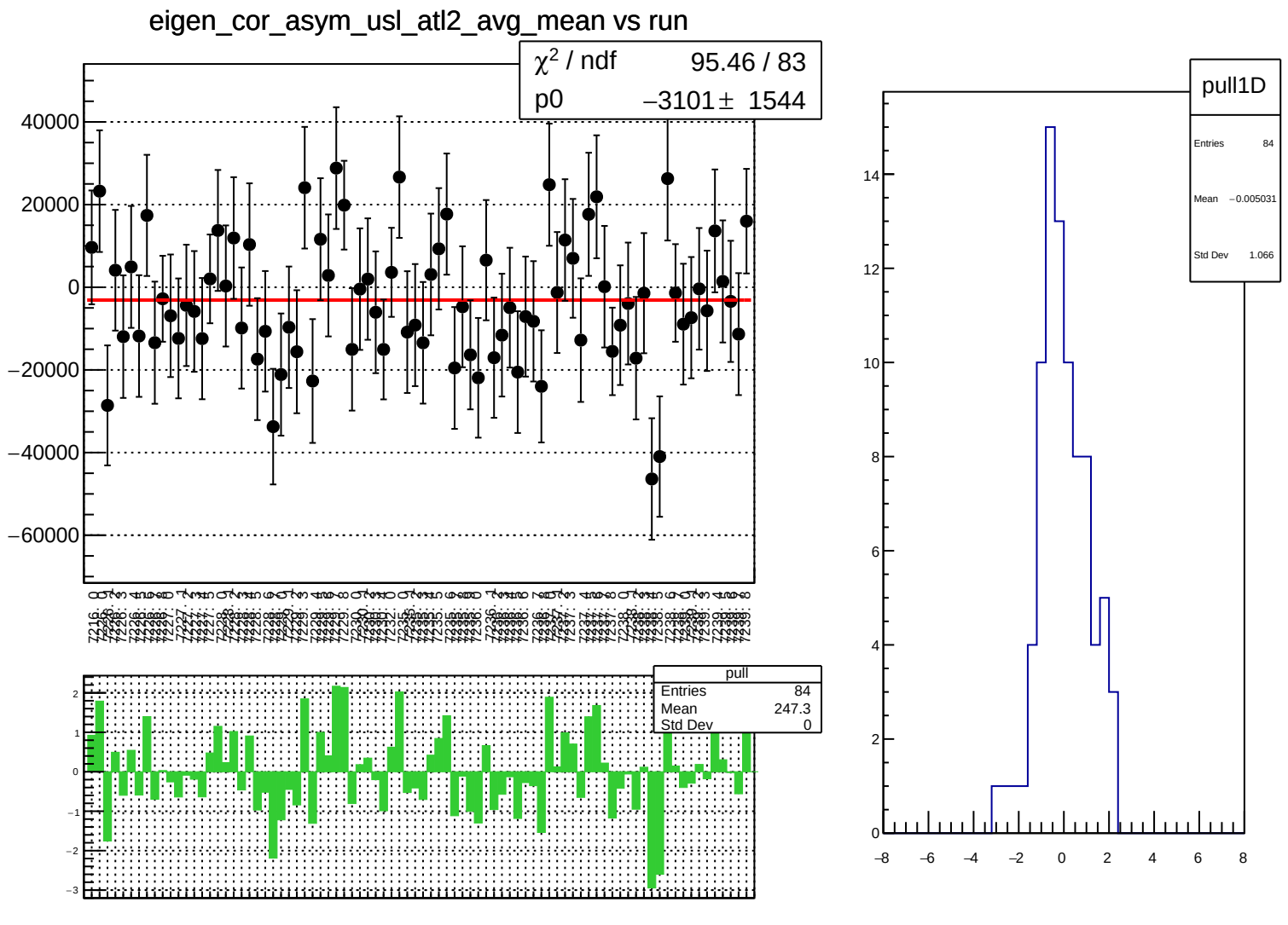

pull1D
Entries 84
Mean −0.005031
Std Dev 1.066
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

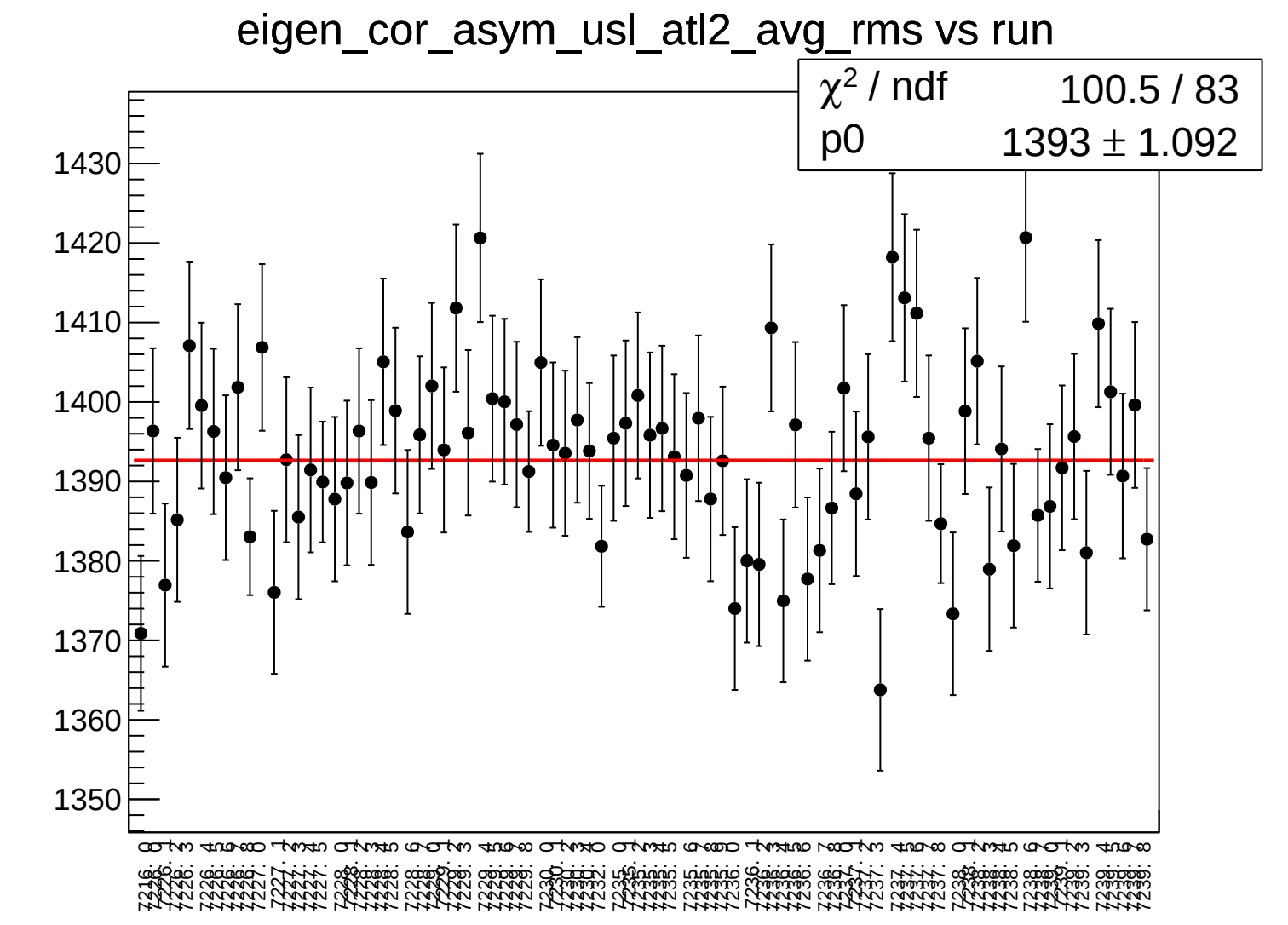

cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 100.5 / 83
p0 1393 ± 1.092
1430
1420
1410
1400
1390
1380
1370
1360
1350

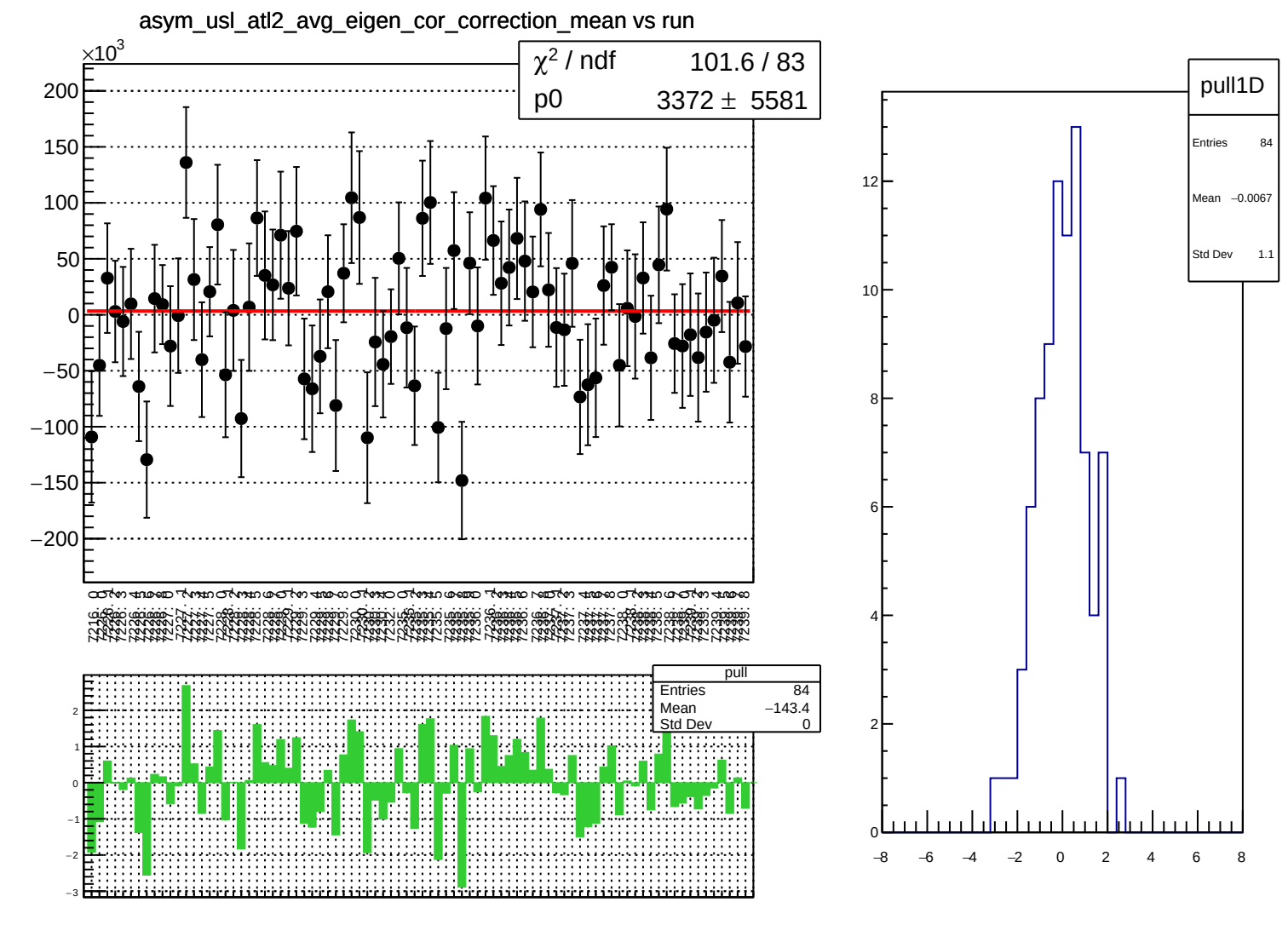

asym_usl_atl2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 101.6 / 83
p0 3372 ± 5581
pull
Entries 84
Mean −143.4
Std Dev 0

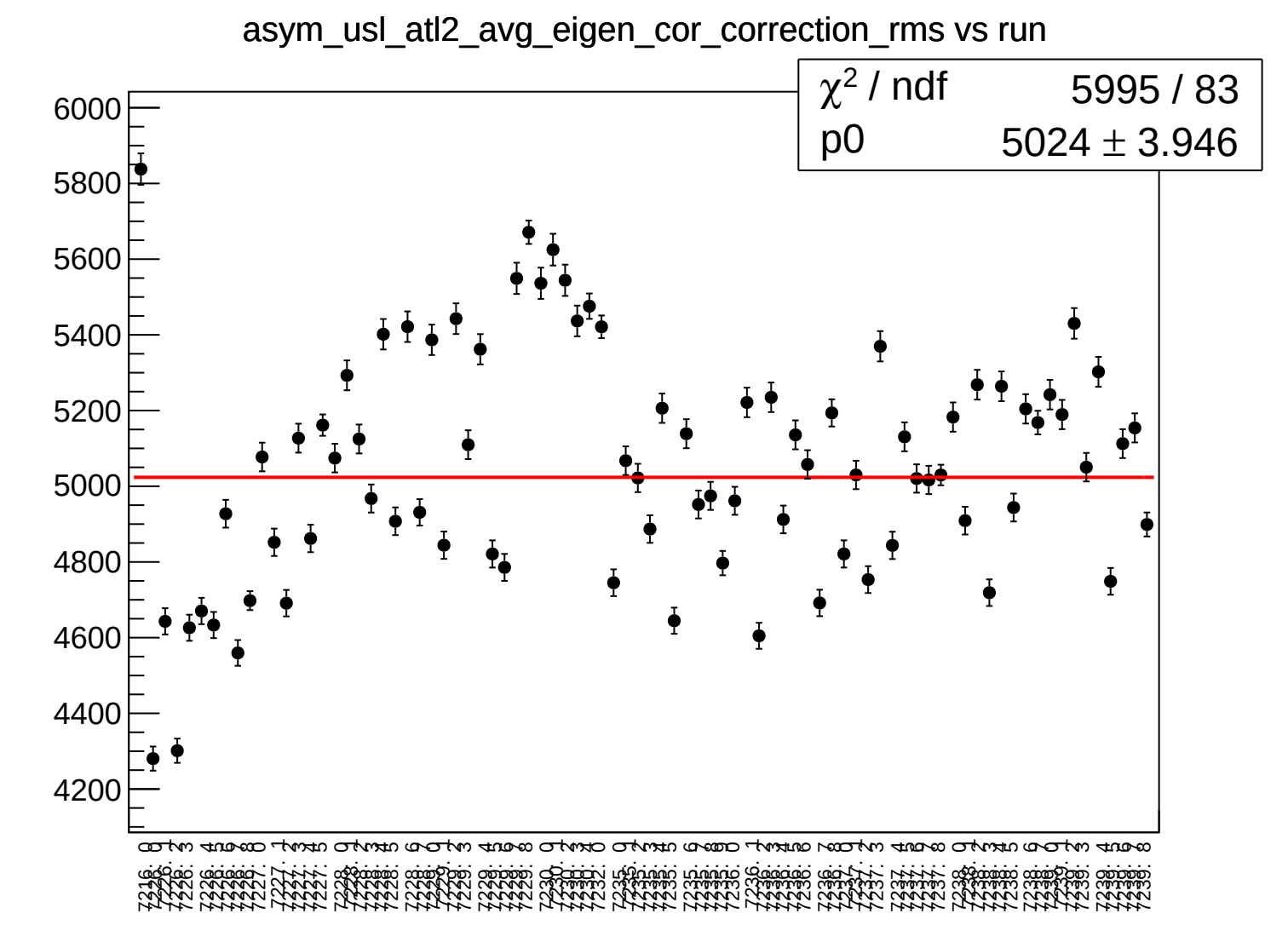

pull1D
Entries 84
Mean −0.0067
Std Dev 1.1

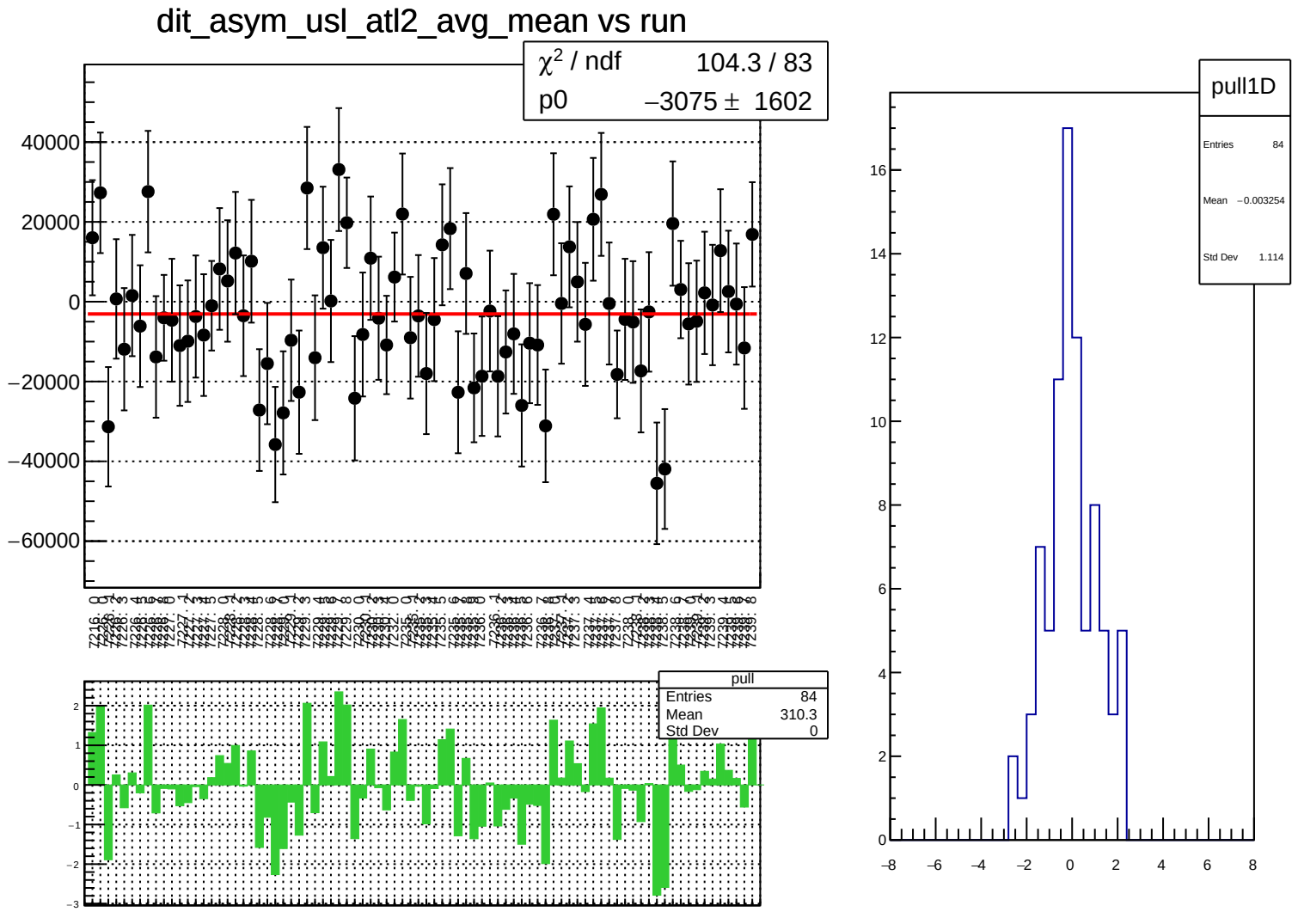

asym_usl_atl2_avg_cor_correction_rms vs run
χ² / ndf 5995 / 83
p0 5024 ± 3.946
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

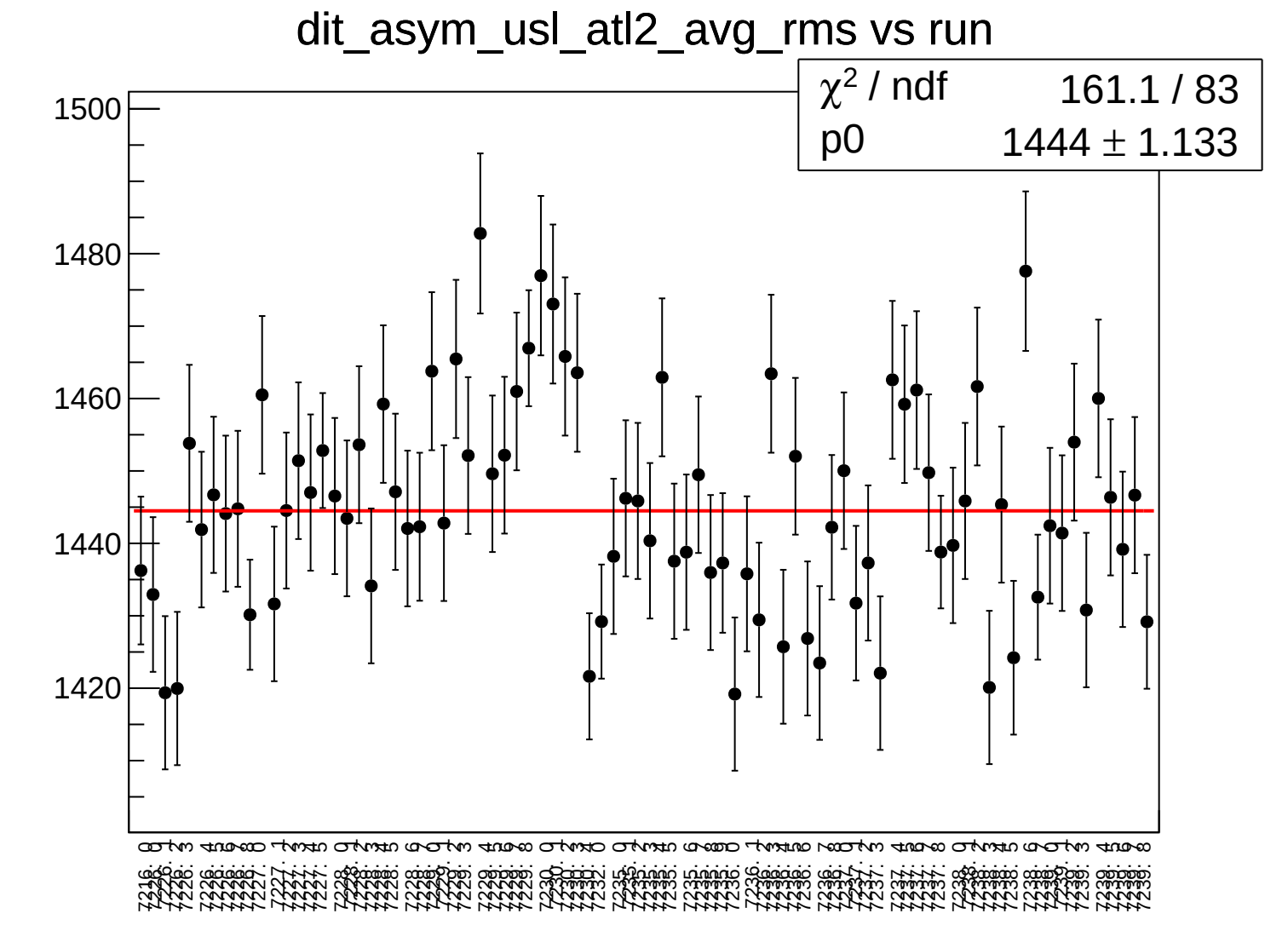

eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 95.46 / 83
p0 −3101 ± 1544
pull
Entries 84
Mean 247.3
Std Dev 0
pull1D
Entries 84
Mean −0.005031
Std Dev 1.066

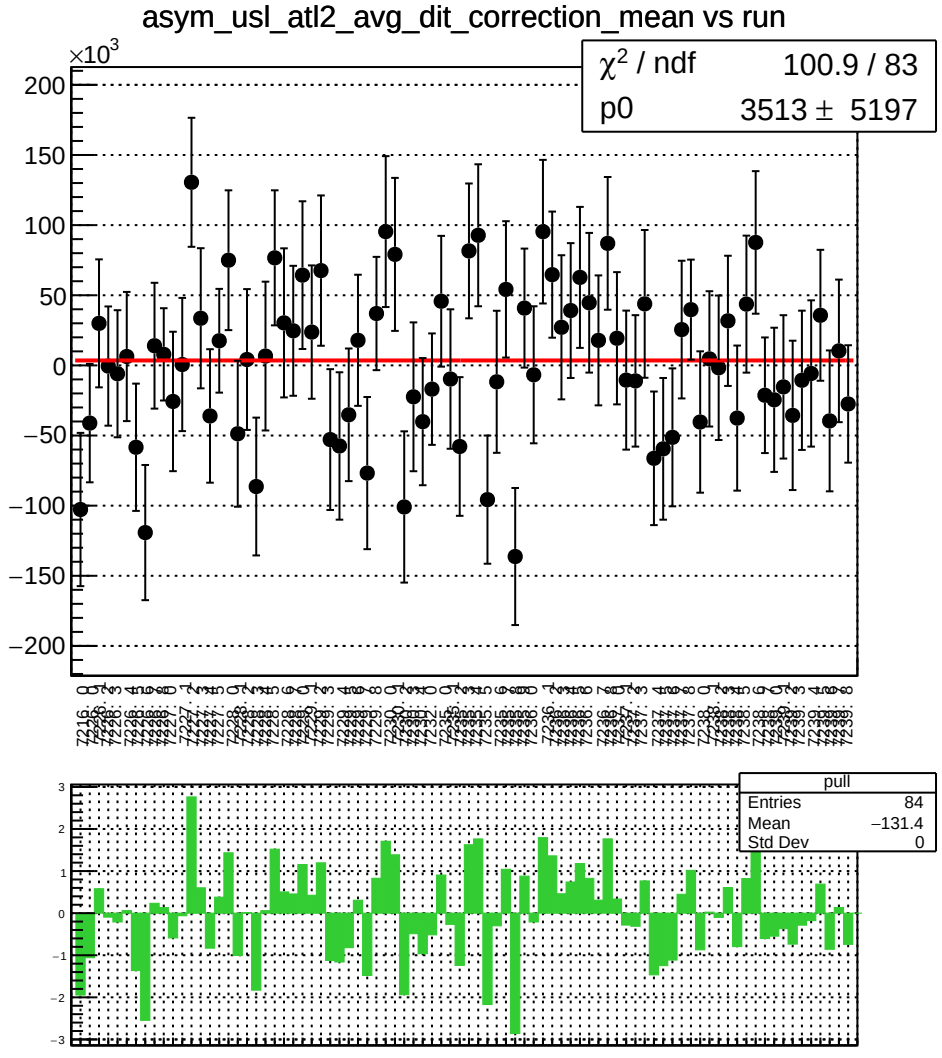

eigen_cor_asym_usl_atl2_avg_rms vs run
χ^2 / ndf 100.5 / 83
p0 1393 ± 1.092
1430
1420
1410
1400
1390
1380
1370
1360
1350

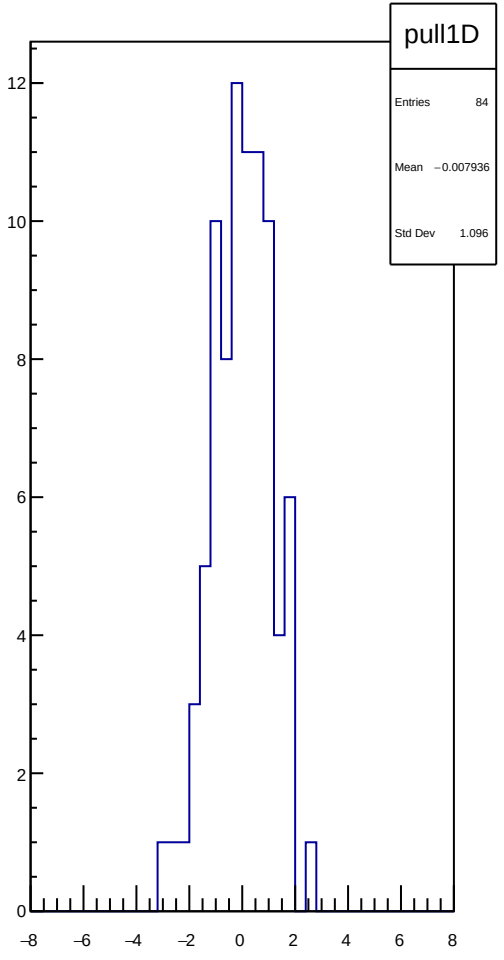

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 101.6 / 83
p0 3372 ± 5581
pull
Entries 84
Mean −143.4
Std Dev 0
pull1D
Entries 84
Mean −0.0067
Std Dev 1.1

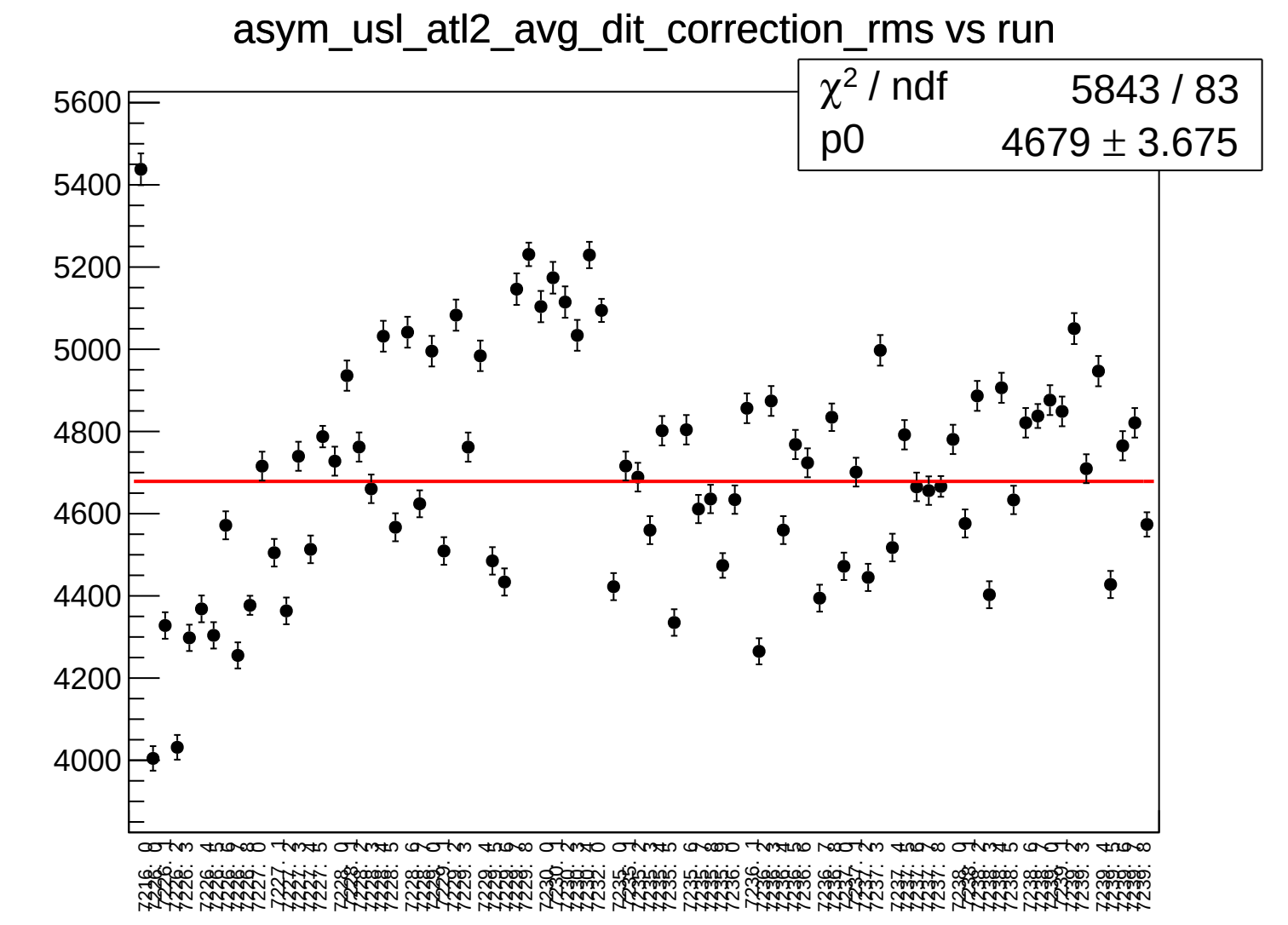

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 5995 / 83
p0 5024 ± 3.946
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

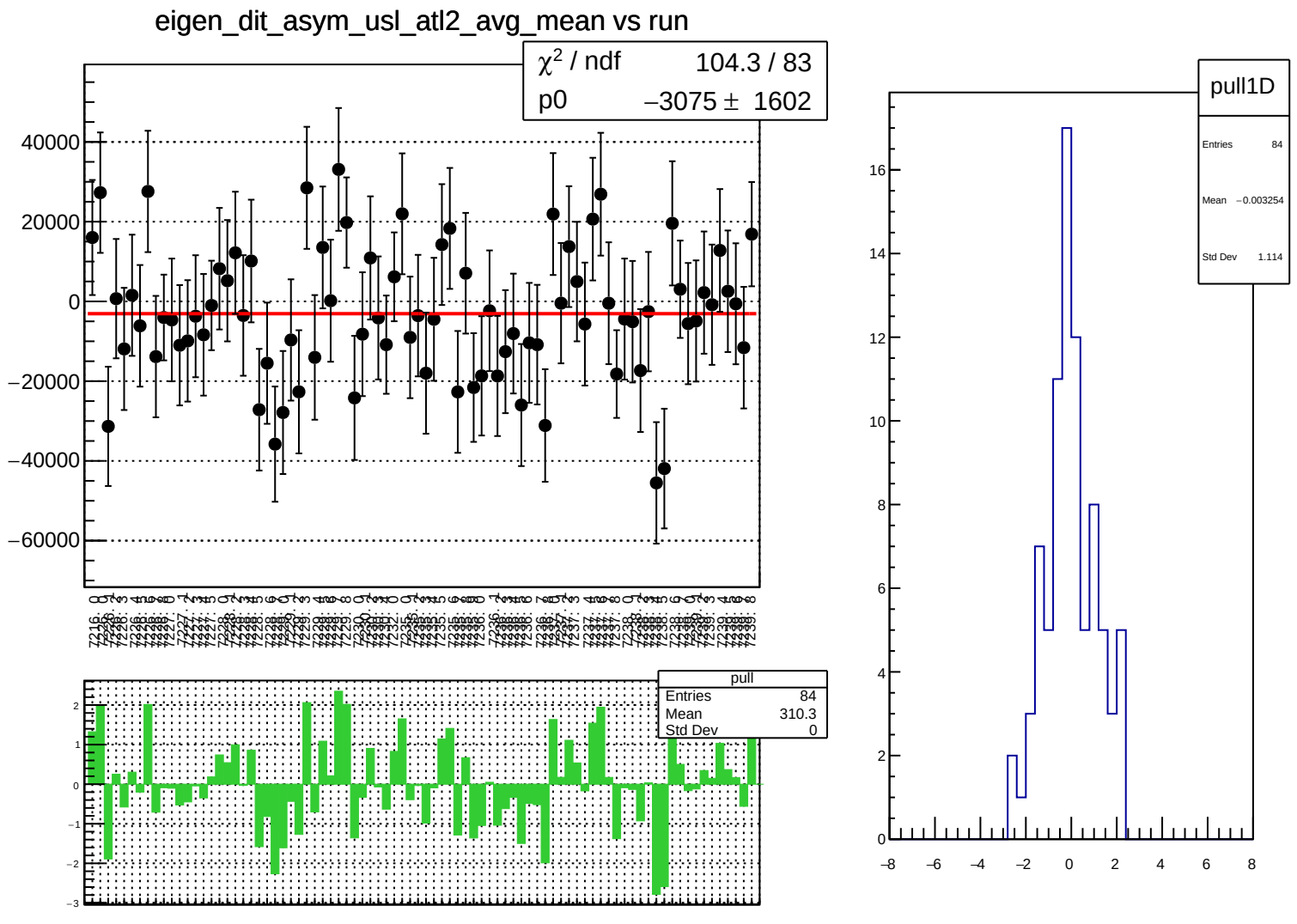

dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 104.3 / 83
p0 −3075 ± 1602
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 310.3
Std Dev 0
pull1D
Entries 84
Mean −0.003254
Std Dev 1.114
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

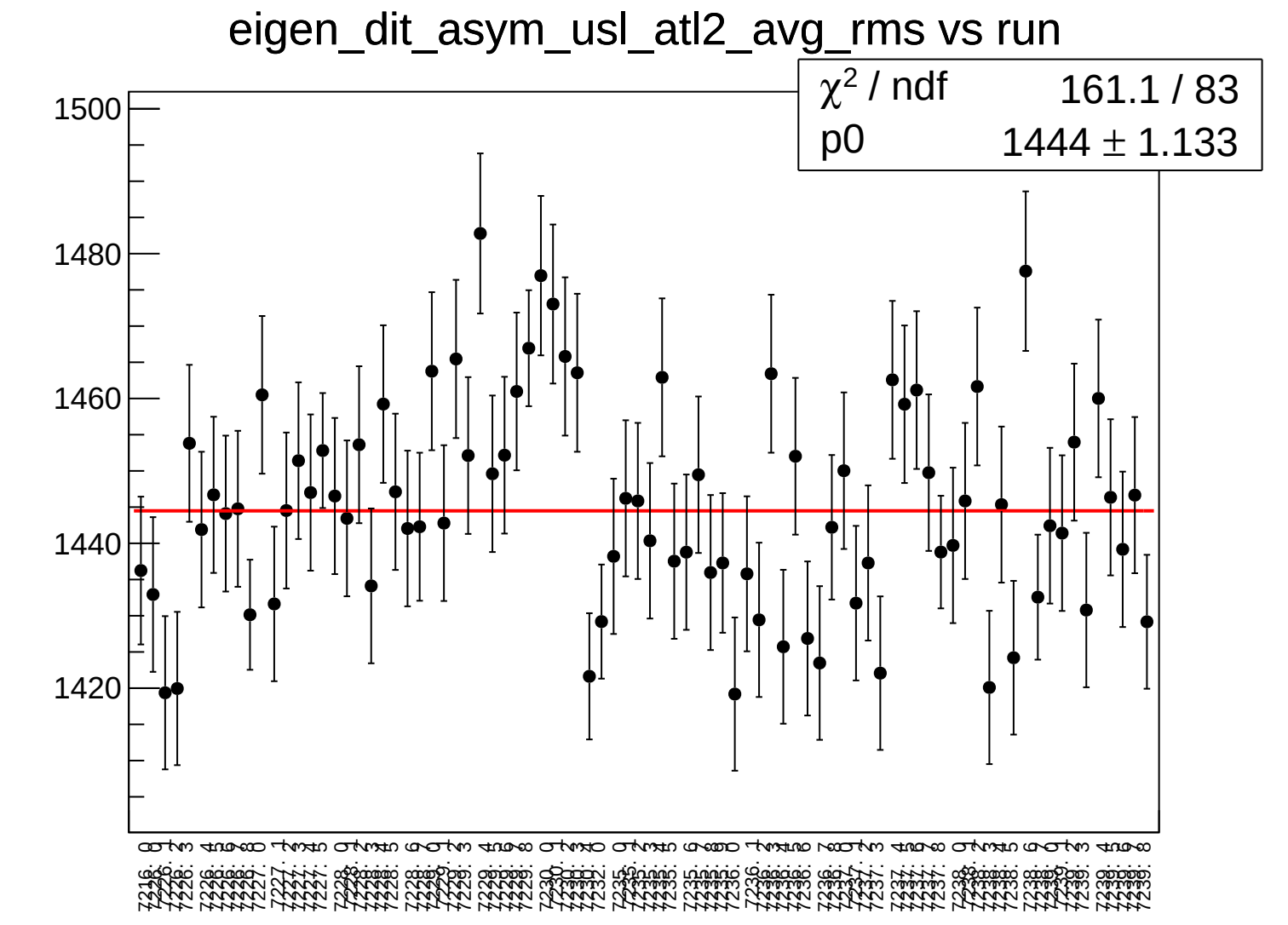

dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 161.1 / 83
p0 1444 ± 1.133
1500
1480
1460
1440
1420

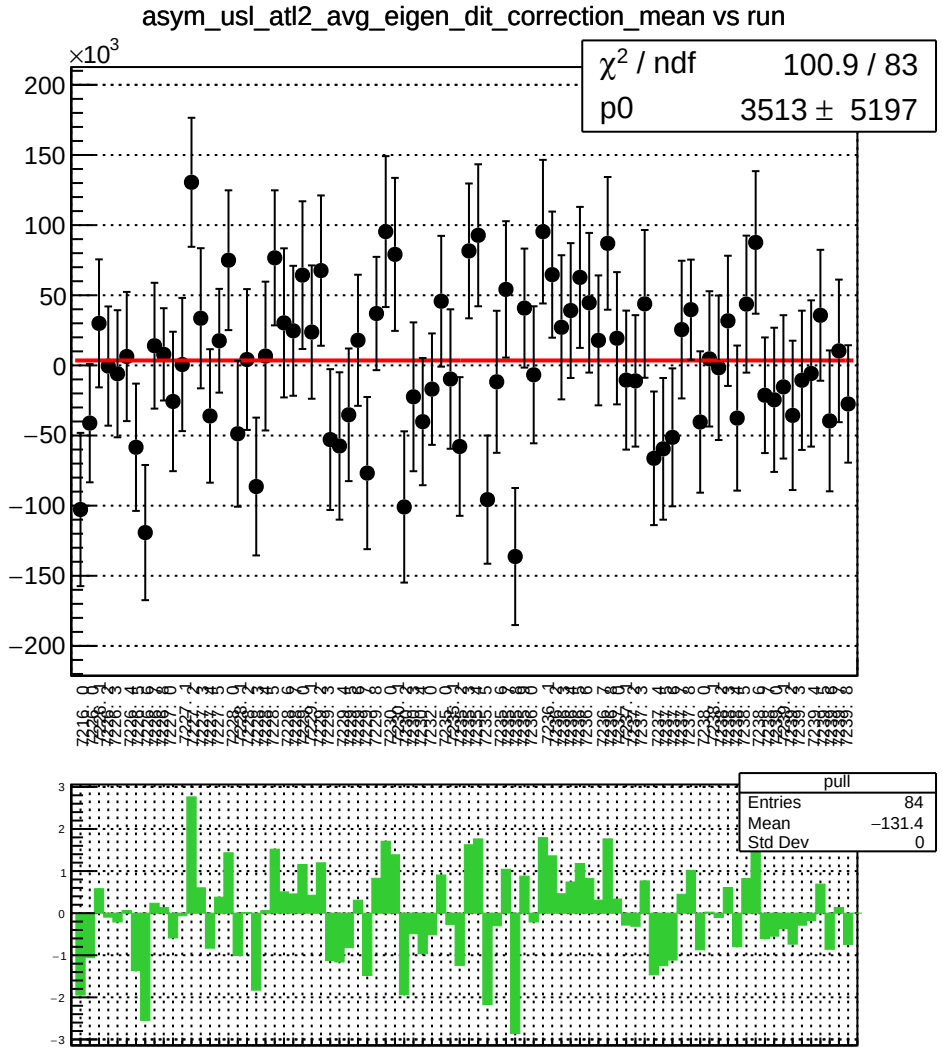

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 100.9 / 83
p0 3513 ± 5197
pull
Entries 84
Mean −131.4
Std Dev 0

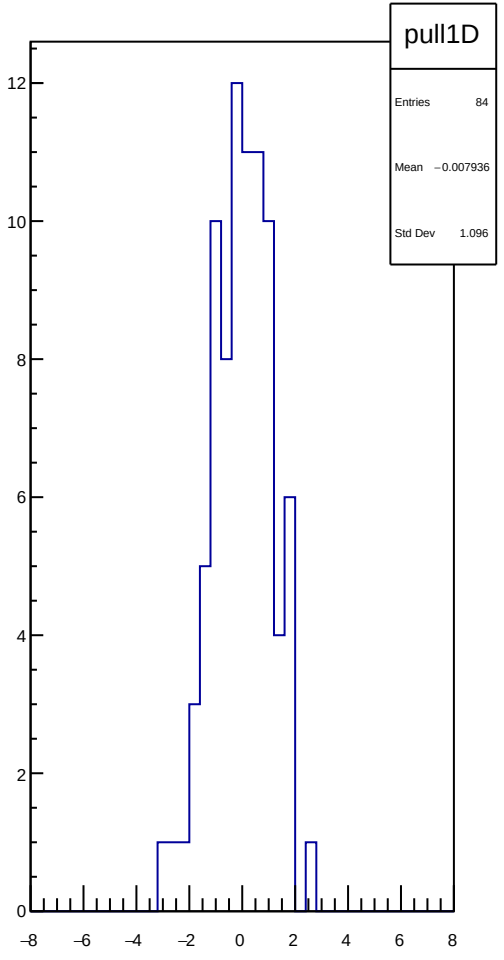

pull1D
Entries 84
Mean −0.007936
Std Dev 1.096

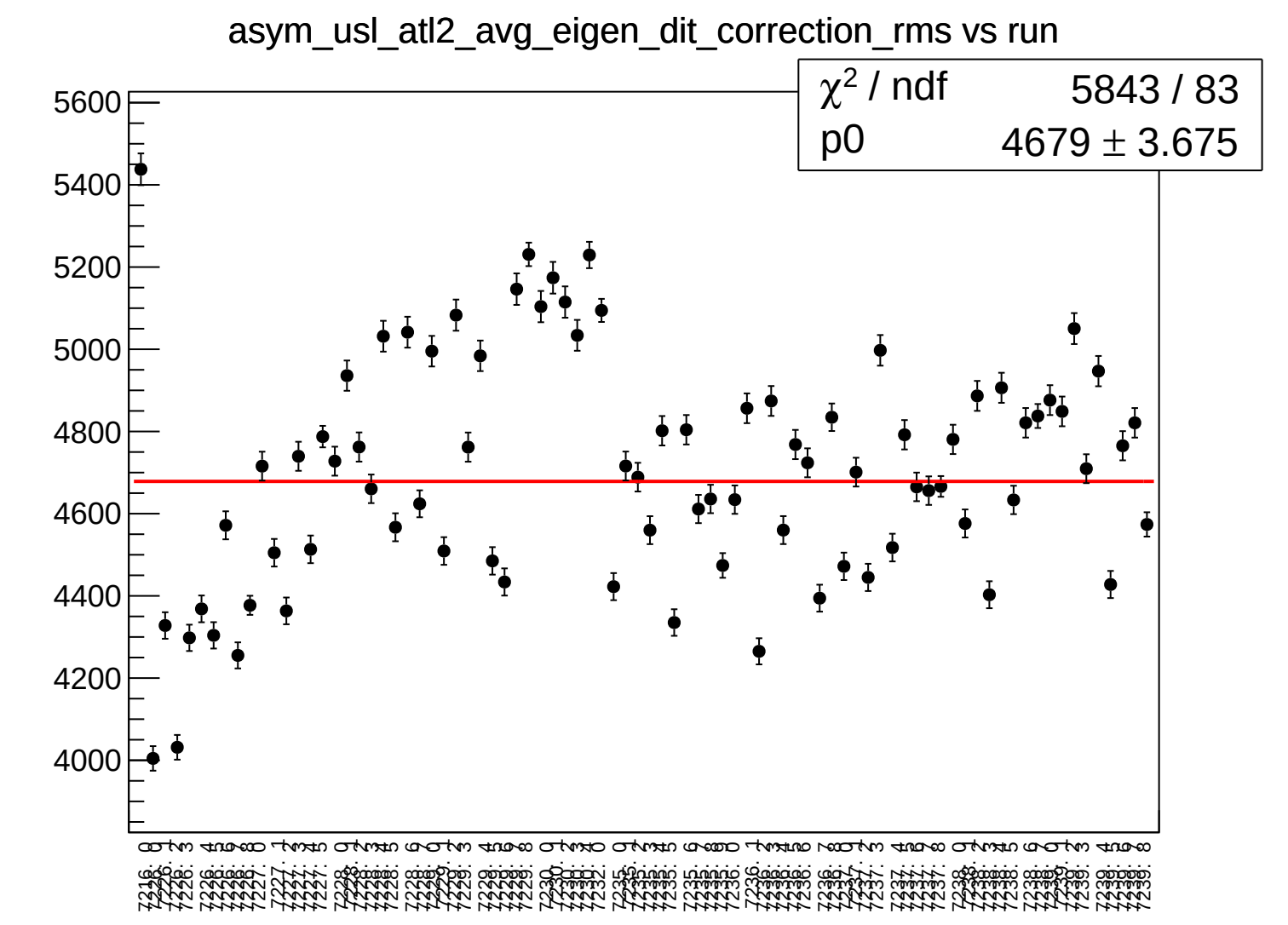

asym_usl_atl2_avg_dit_correction_rms vs run
χ^2 / ndf 5843 / 83
p0 4679 ± 3.675
5600
5400
5200
5000
4800
4600
4400
4200
4000

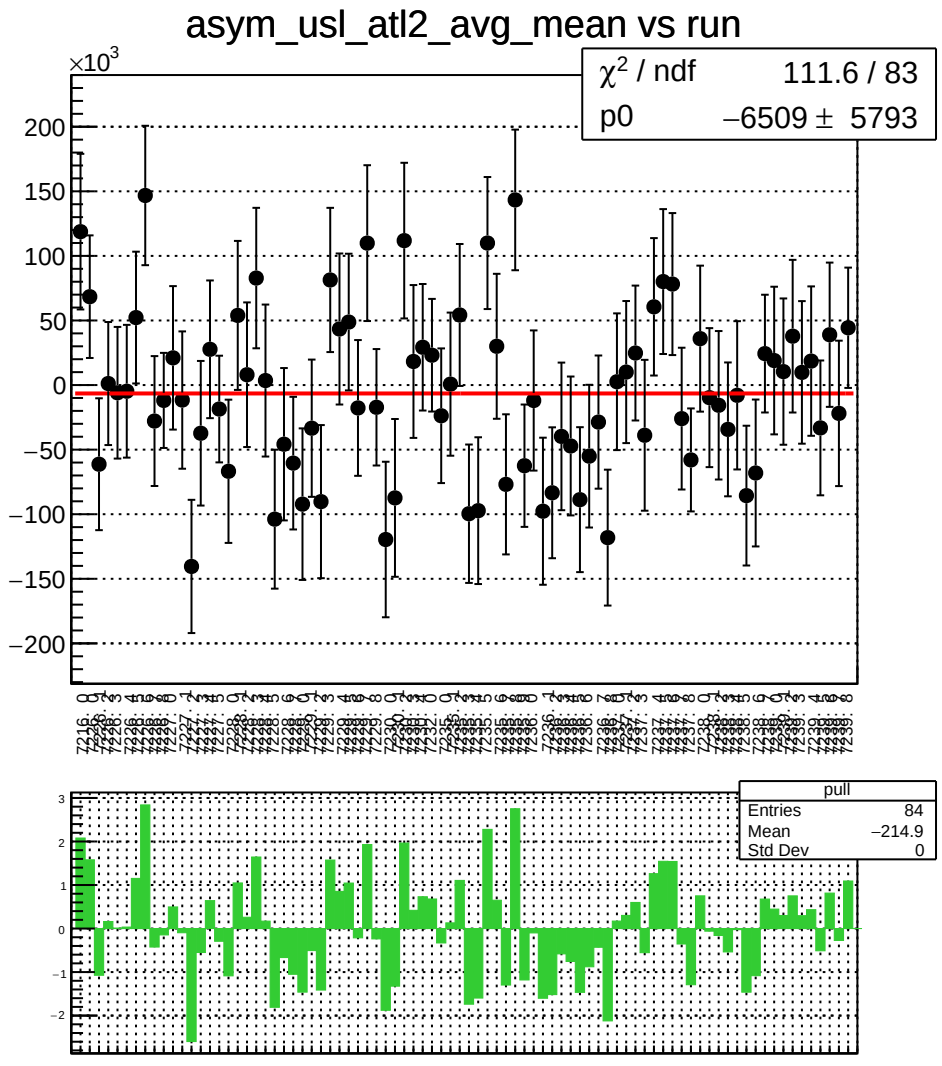

eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 104.3 / 83
p0 −3075 ± 1602
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 310.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean −0.003254
Std Dev 1.114
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

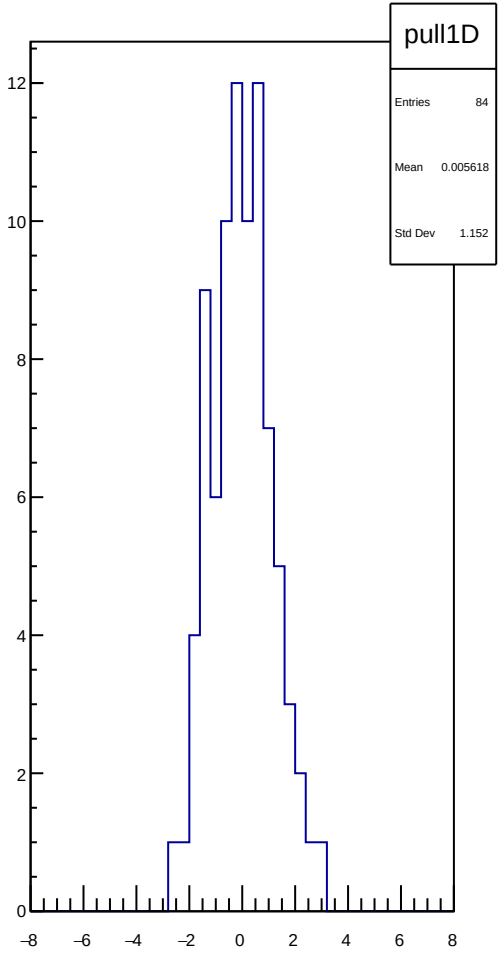

eigen_dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 161.1 / 83
p0 1444 ± 1.133
1500
1480
1460
1440
1420

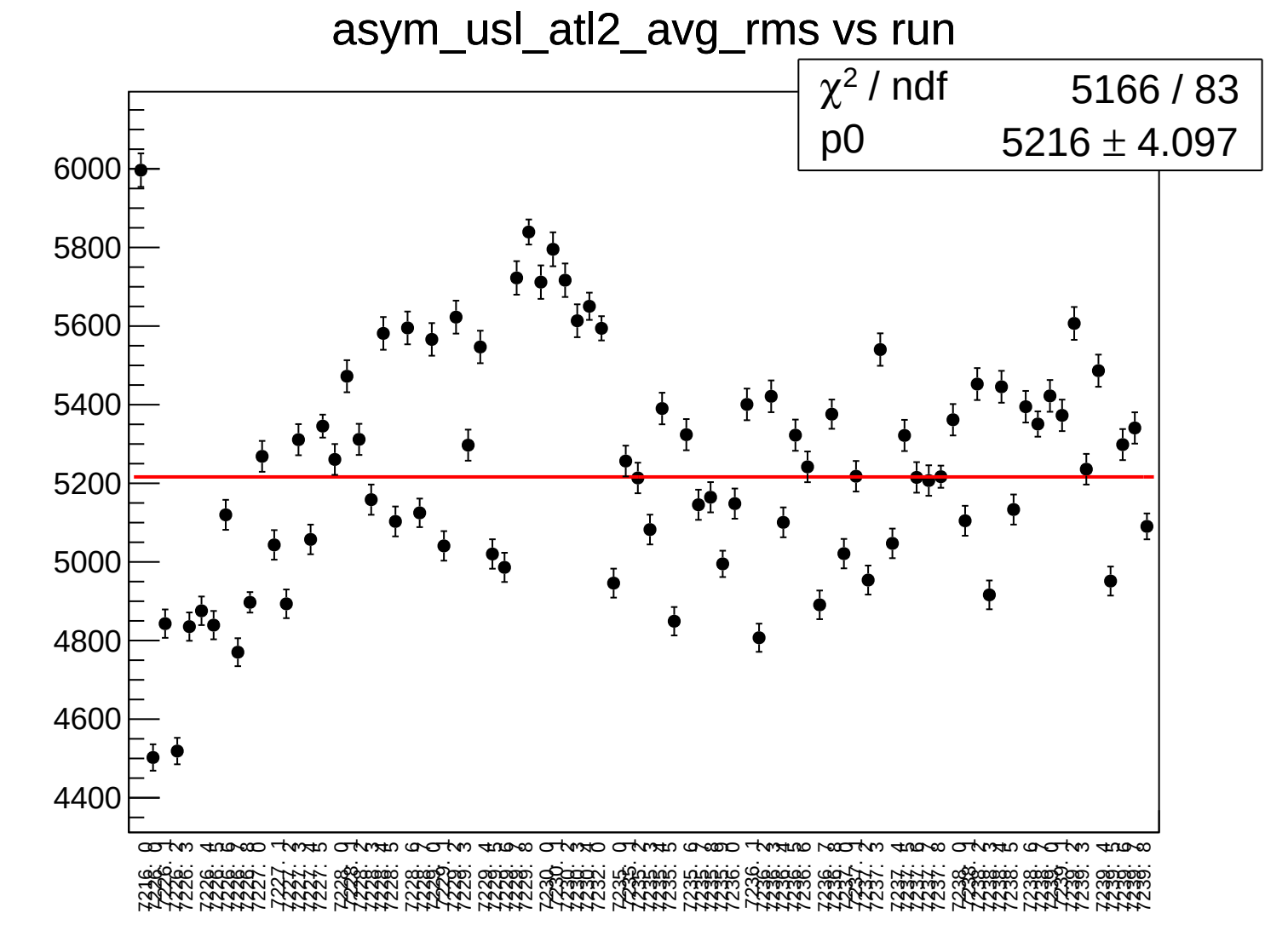

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 100.9 / 83
p0 3513 ± 5197
pull
Entries 84
Mean −131.4
Std Dev 0

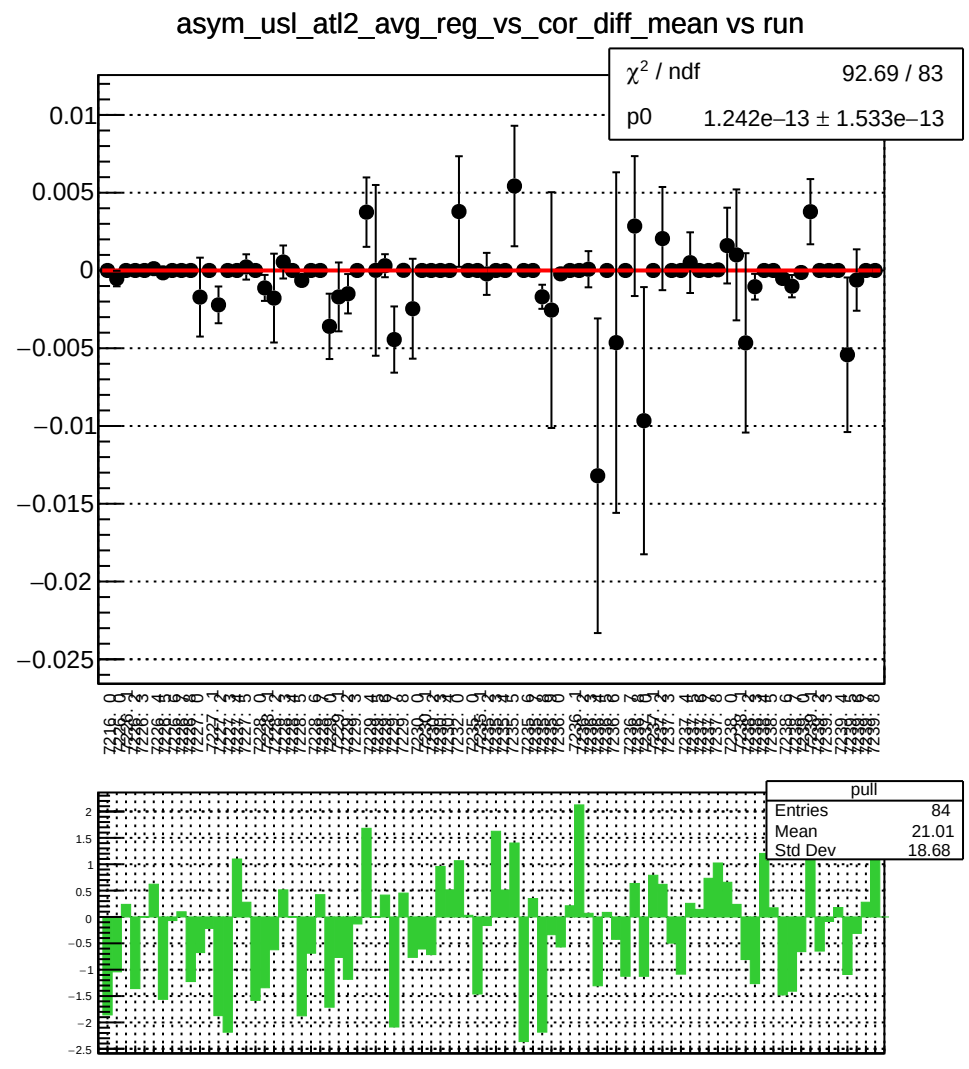

pull1D
Entries 84
Mean −0.007936
Std Dev 1.096

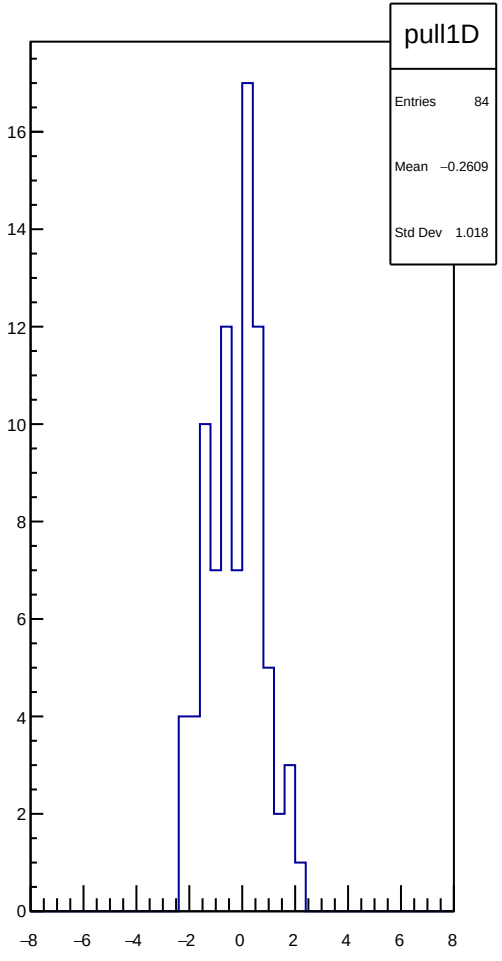

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ^2 / ndf 5843 / 83
p0 4679 ± 3.675
5600
5400
5200
5000
4800
4600
4400
4200
4000

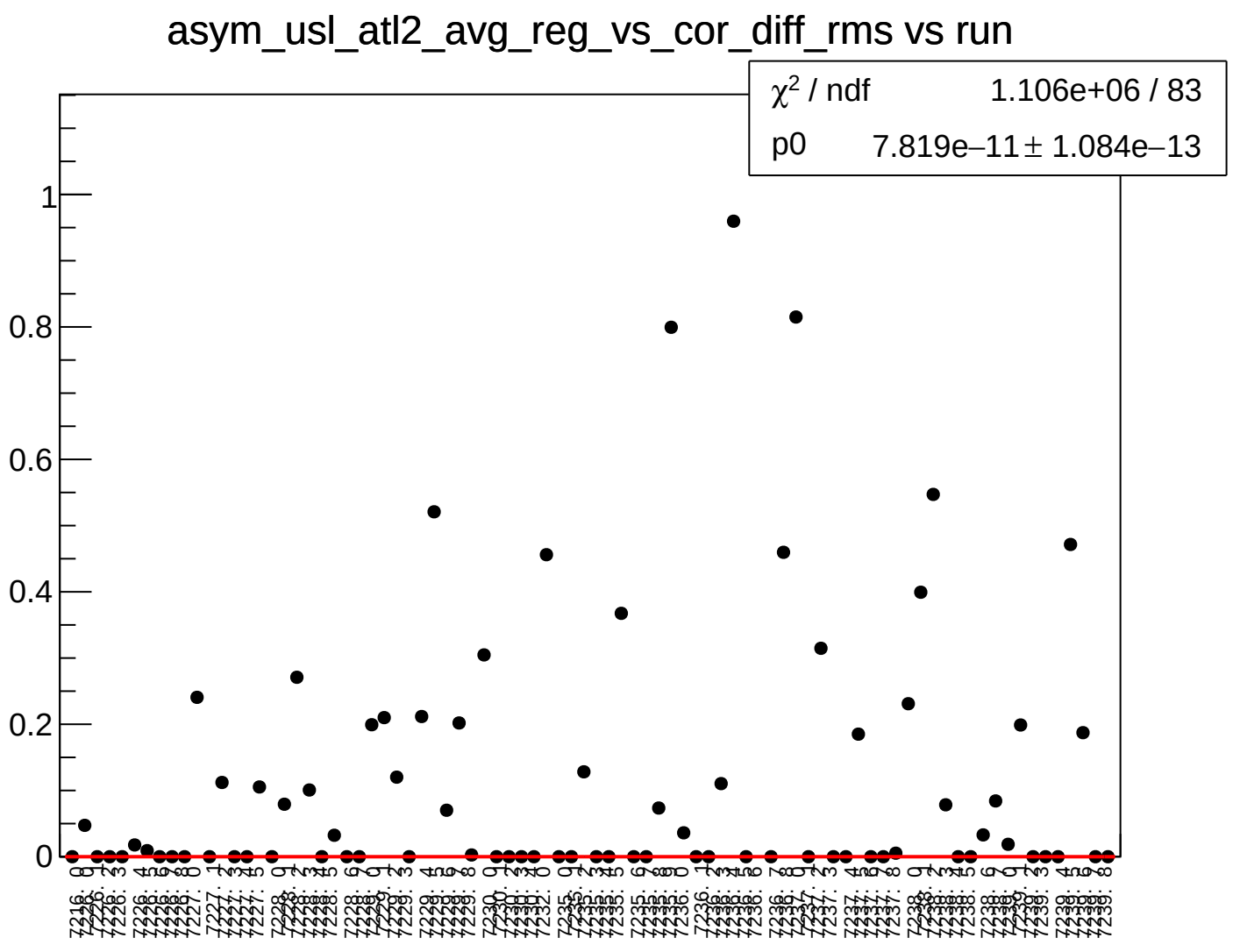

asym_usl_atl2_avg_mean vs run
×10^3
χ² / ndf 111.6 / 83
p0 −6509 ± 5793
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 84
Mean −214.9
Std Dev 0
3
2
1
0
−1
−2

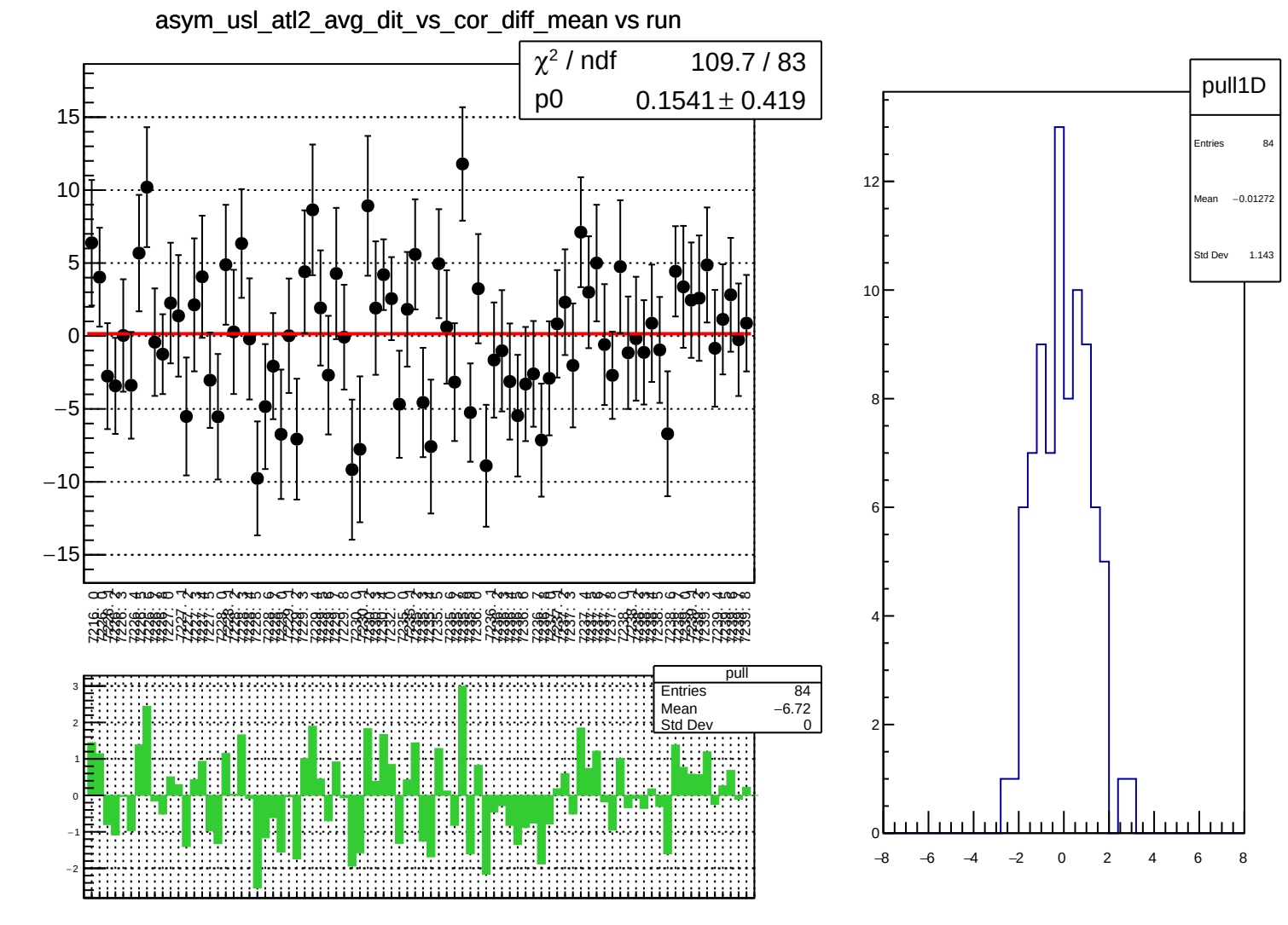

pull1D
Entries 84
Mean 0.005618
Std Dev 1.152
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

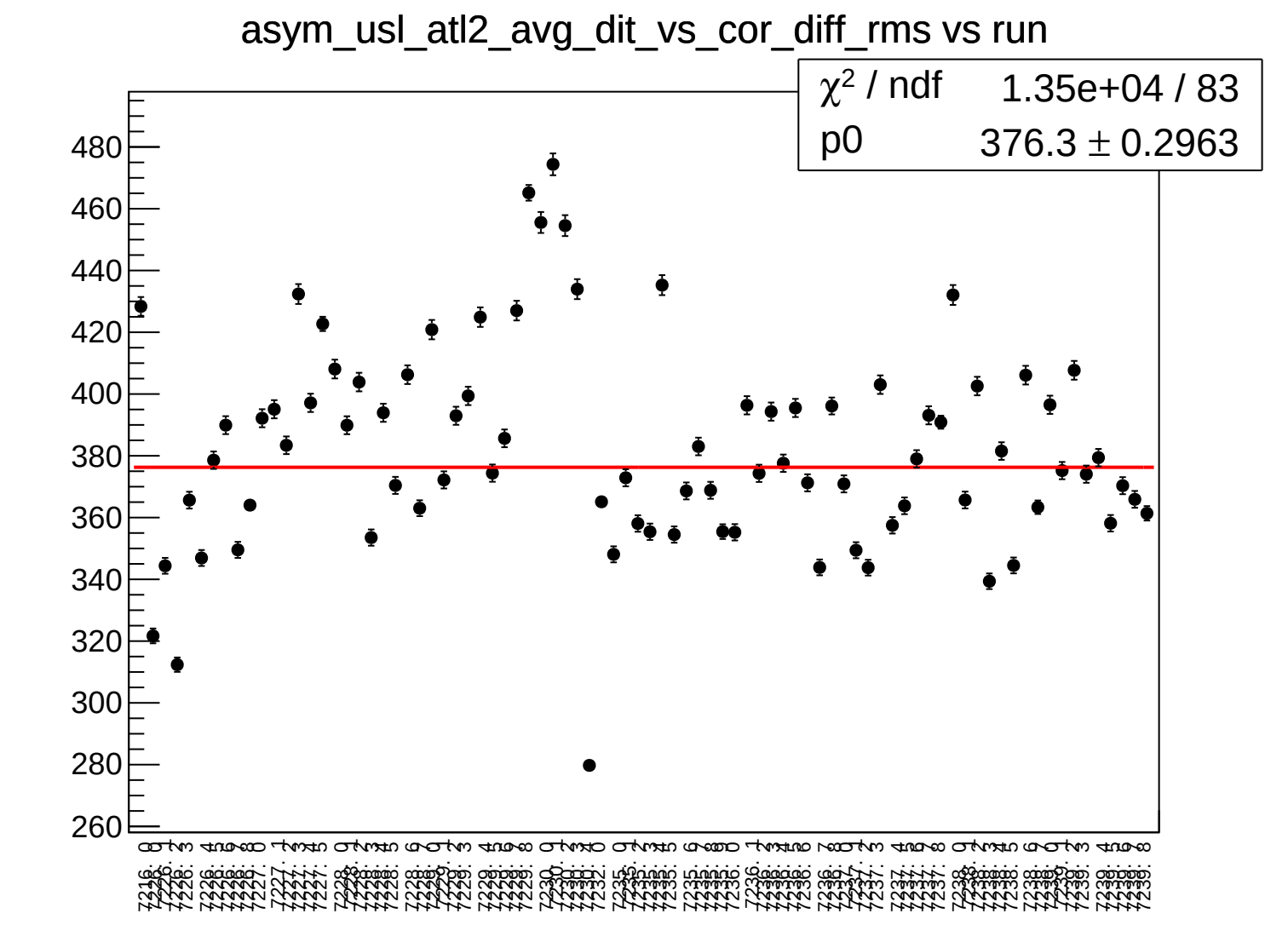

asym_usl_atl2_avg_rms vs run
χ² / ndf 5166 / 83
p0 5216 ± 4.097
6000
5800
5600
5400
5200
5000
4800
4600
4400

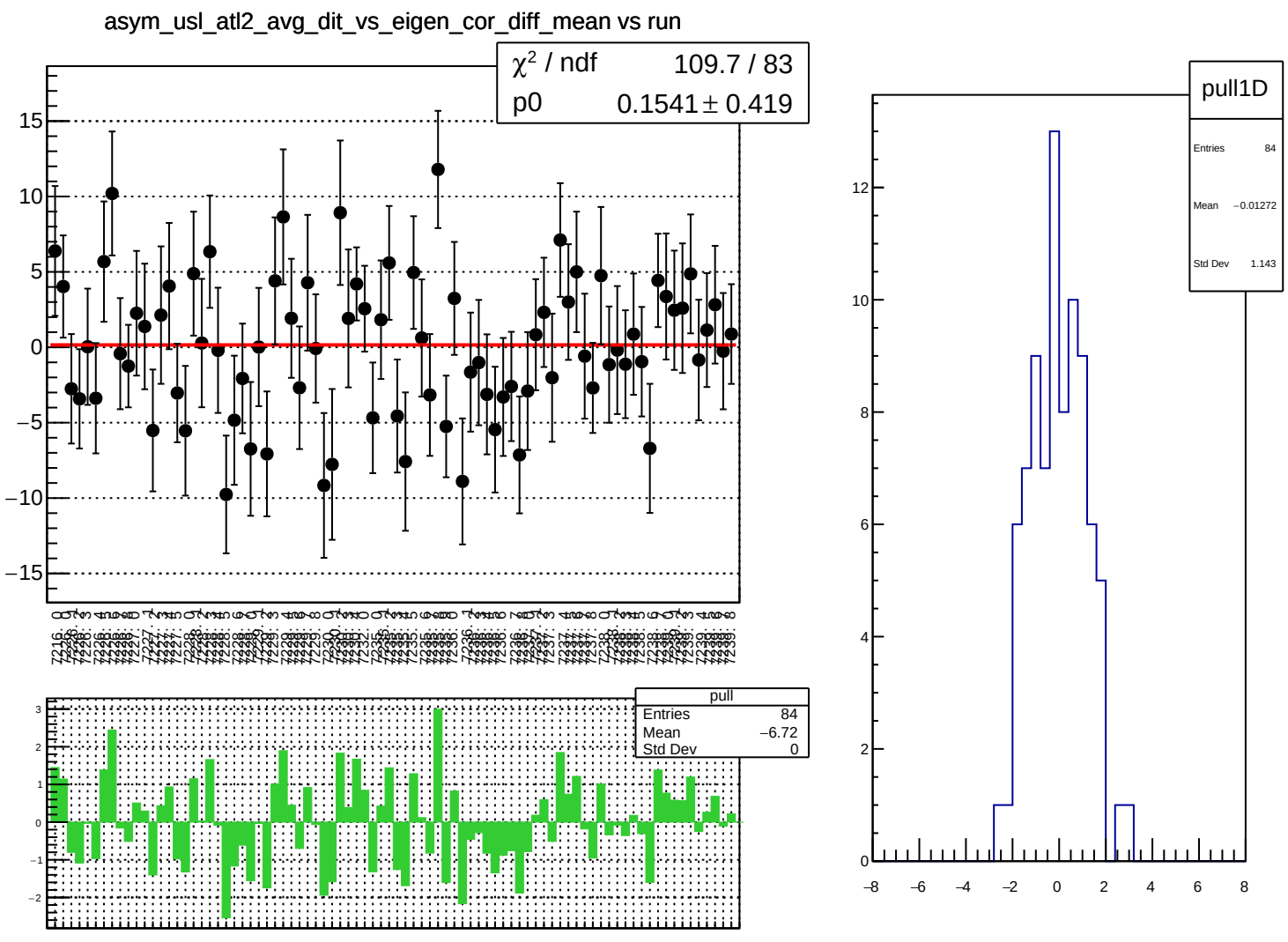

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 92.69 / 83
p0 1.242e−13 ± 1.533e−13
pull
Entries 84
Mean 21.01
Std Dev 18.68

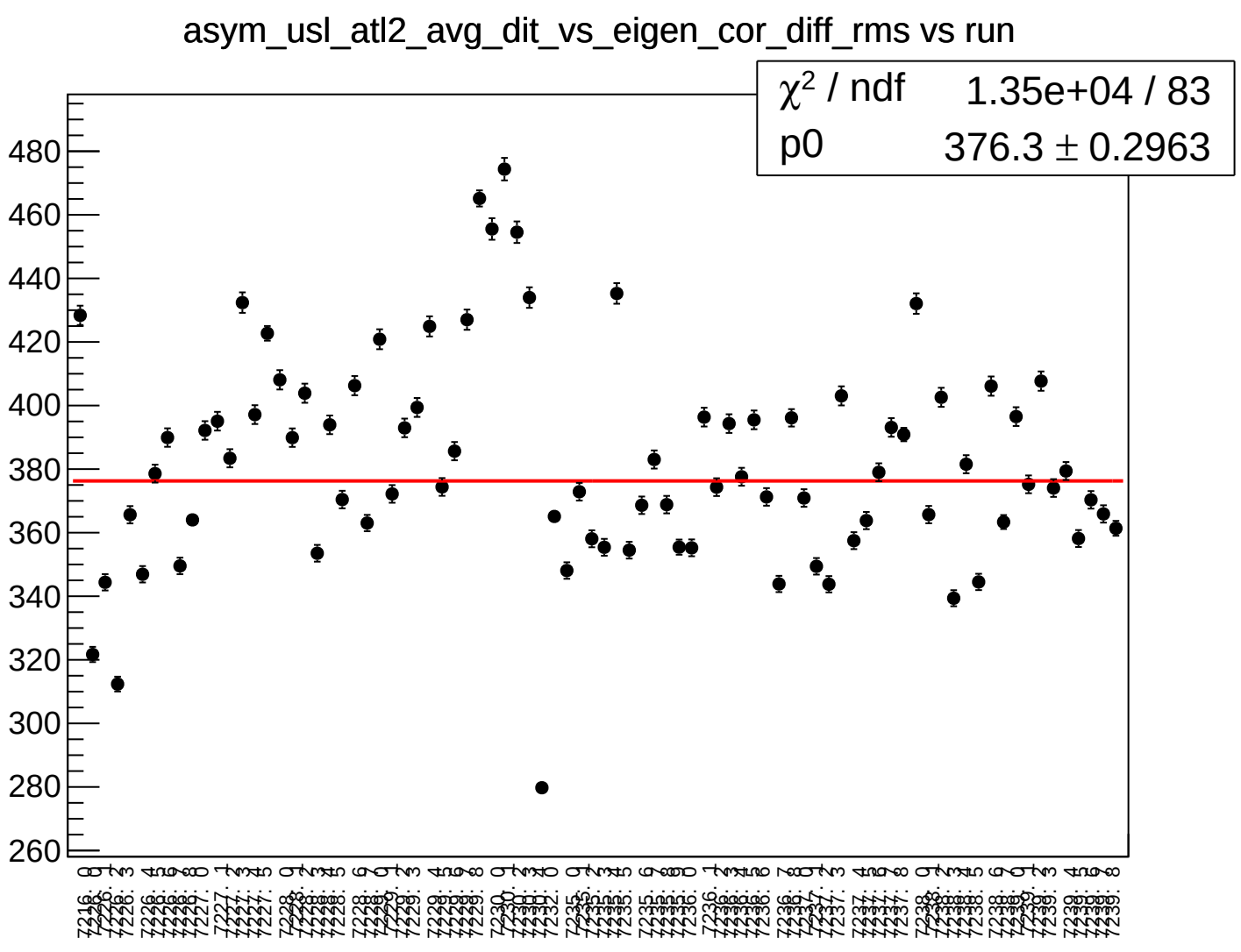

pull1D
Entries 84
Mean −0.2609
Std Dev 1.018

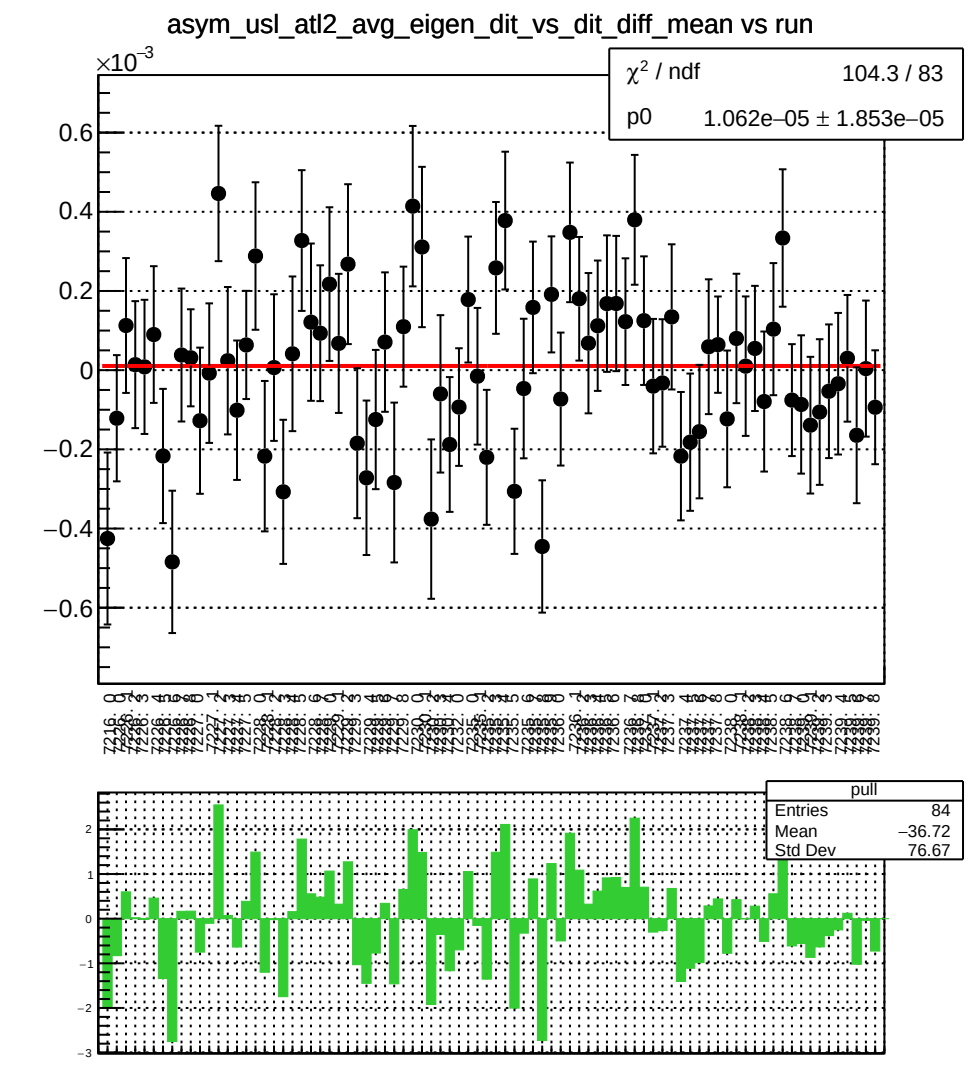

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.106e+06 / 83
p0 7.819e−11 ± 1.084e−13
1
0.8
0.6
0.4
0.2
0

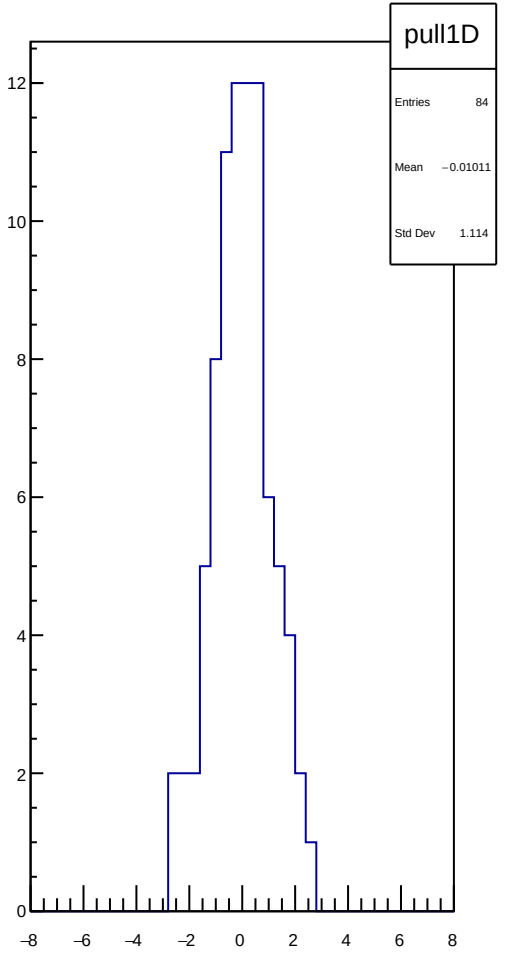

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 109.7 / 83
p0 0.1541 ± 0.419
pull
Entries 84
Mean −6.72
Std Dev 0
pull1D
Entries 84
Mean −0.01272
Std Dev 1.143

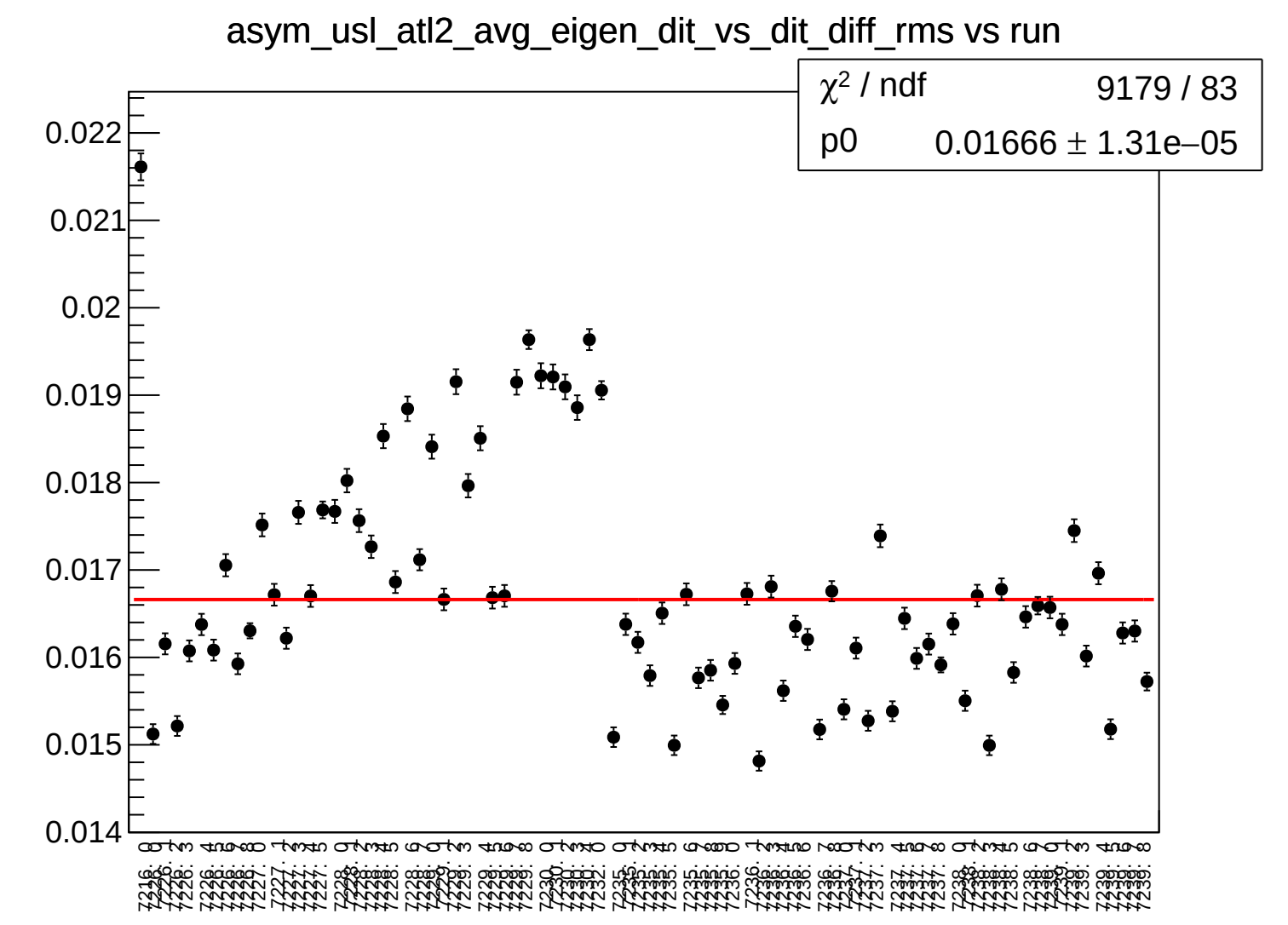

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.35e+04 / 83
p0 376.3 ± 0.2963
480
460
440
420
400
380
360
340
320
300
280
260

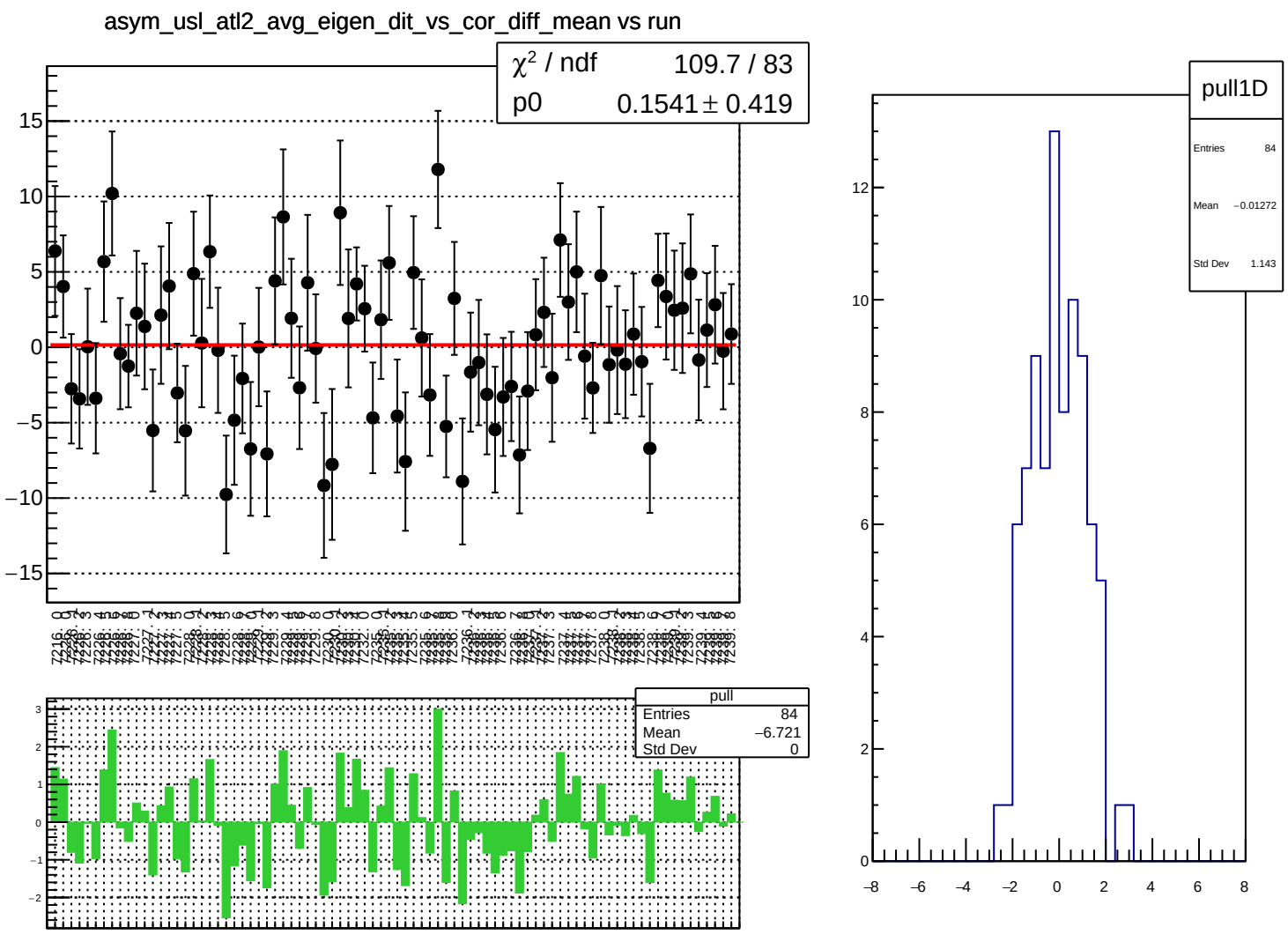

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.7 / 83
p0 0.1541 ± 0.419
pull
Entries 84
Mean −6.72
Std Dev 0
pull1D
Entries 84
Mean −0.01272
Std Dev 1.143

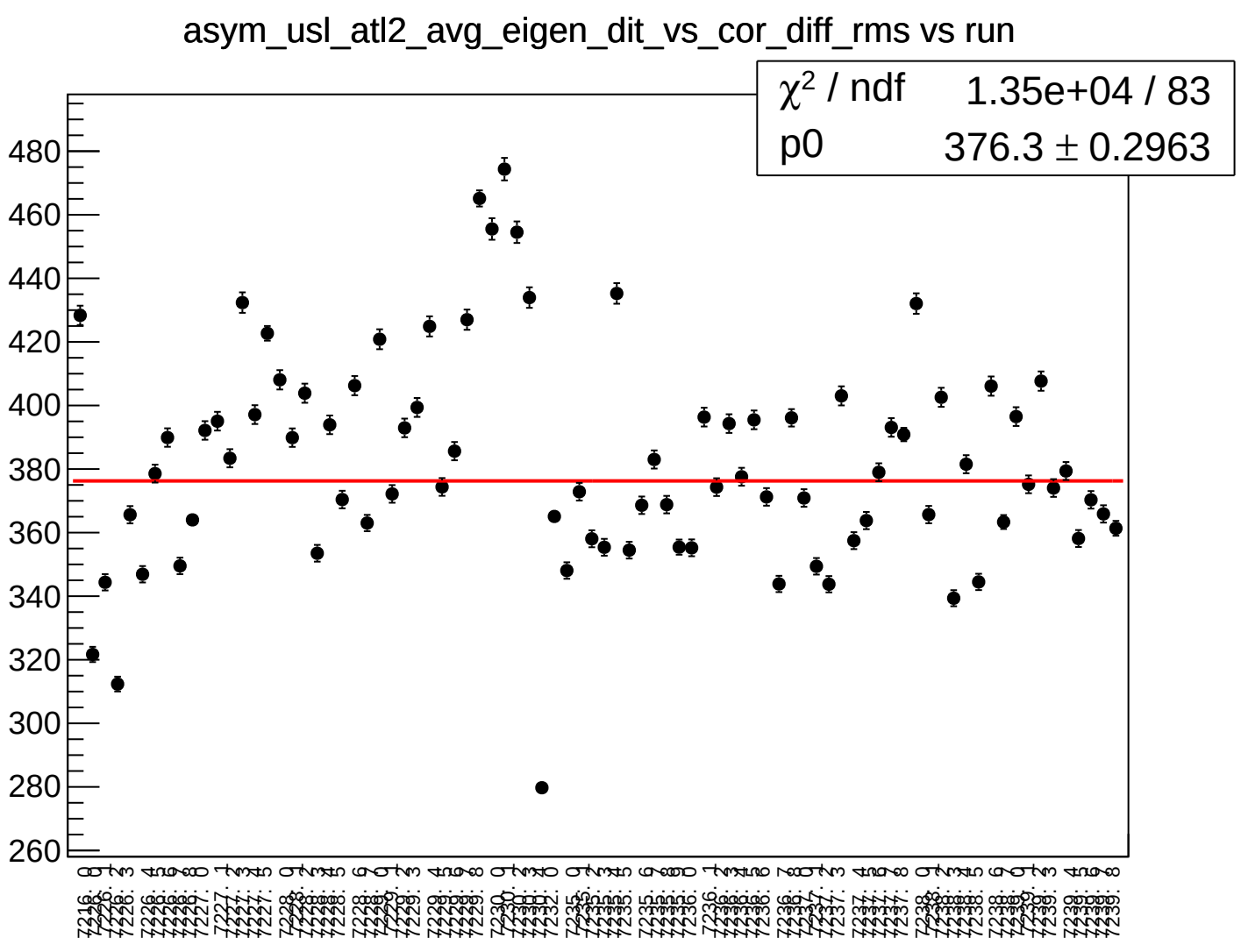

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.35e+04 / 83
p0 376.3 ± 0.2963
480
460
440
420
400
380
360
340
320
300
280
260

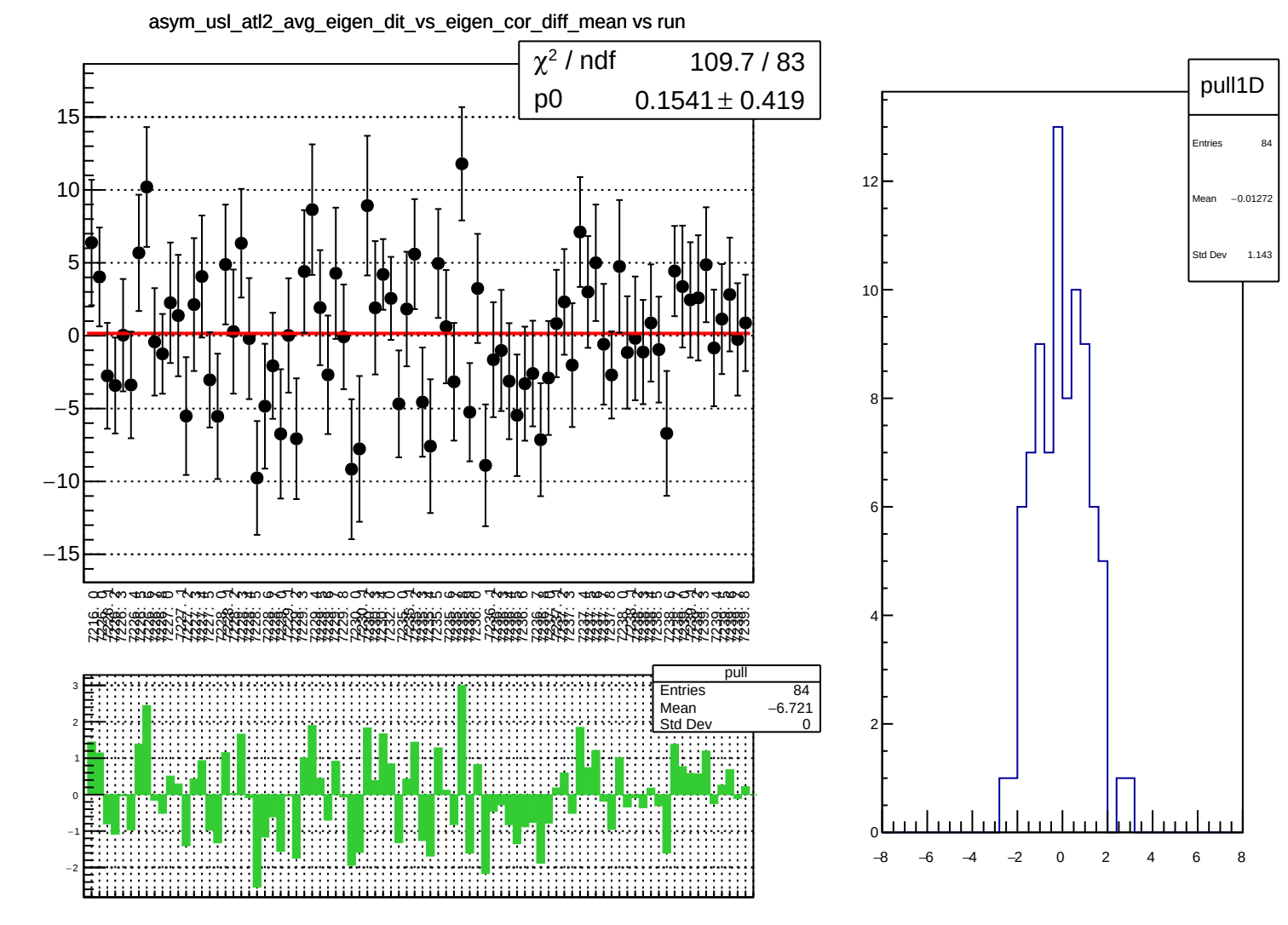

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 104.3 / 83
p0 1.062e−05 ± 1.853e−05
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 84
Mean −36.72
Std Dev 76.67
2
1
0
−1
−2
−3

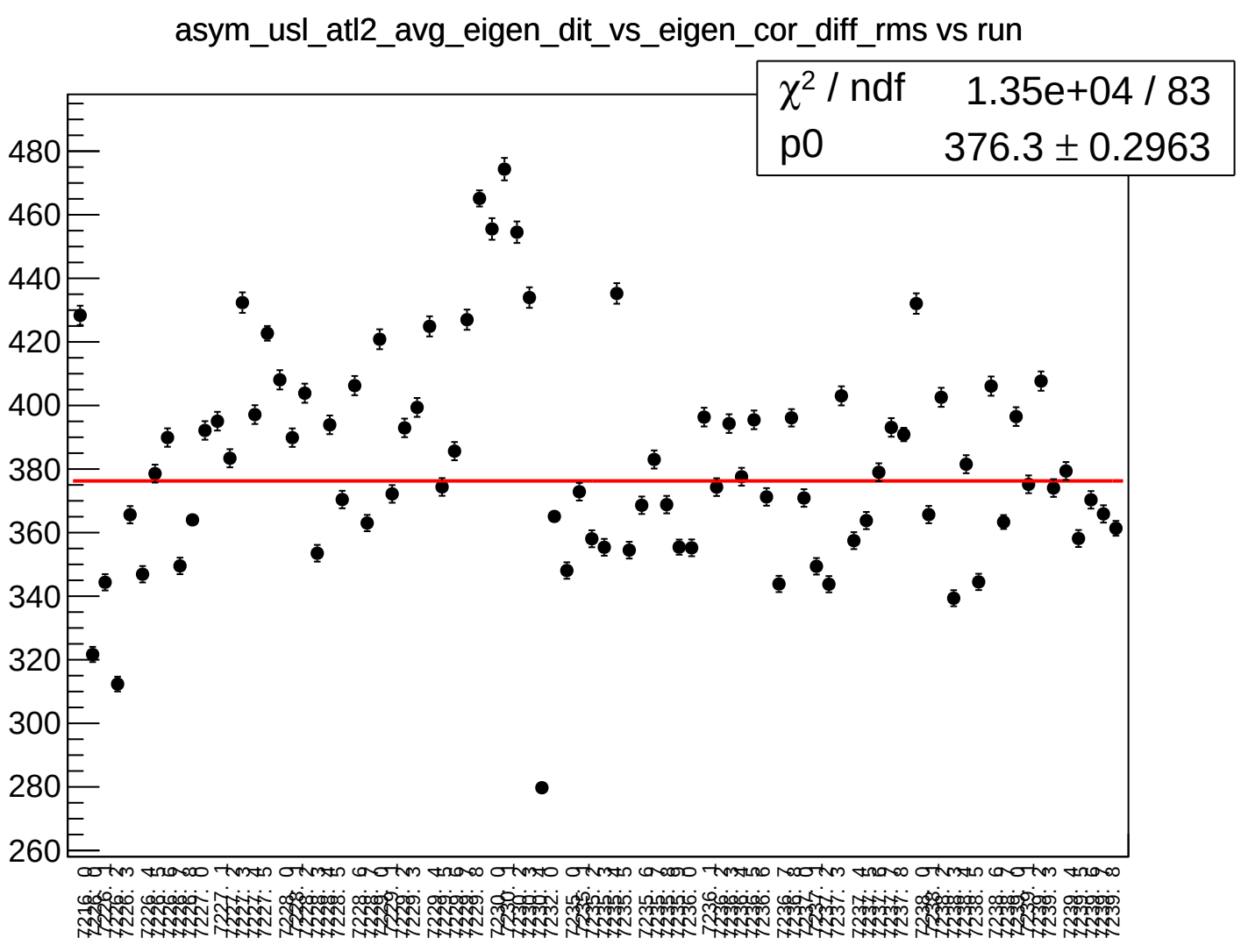

pull1D
Entries 84
Mean −0.01011
Std Dev 1.114
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

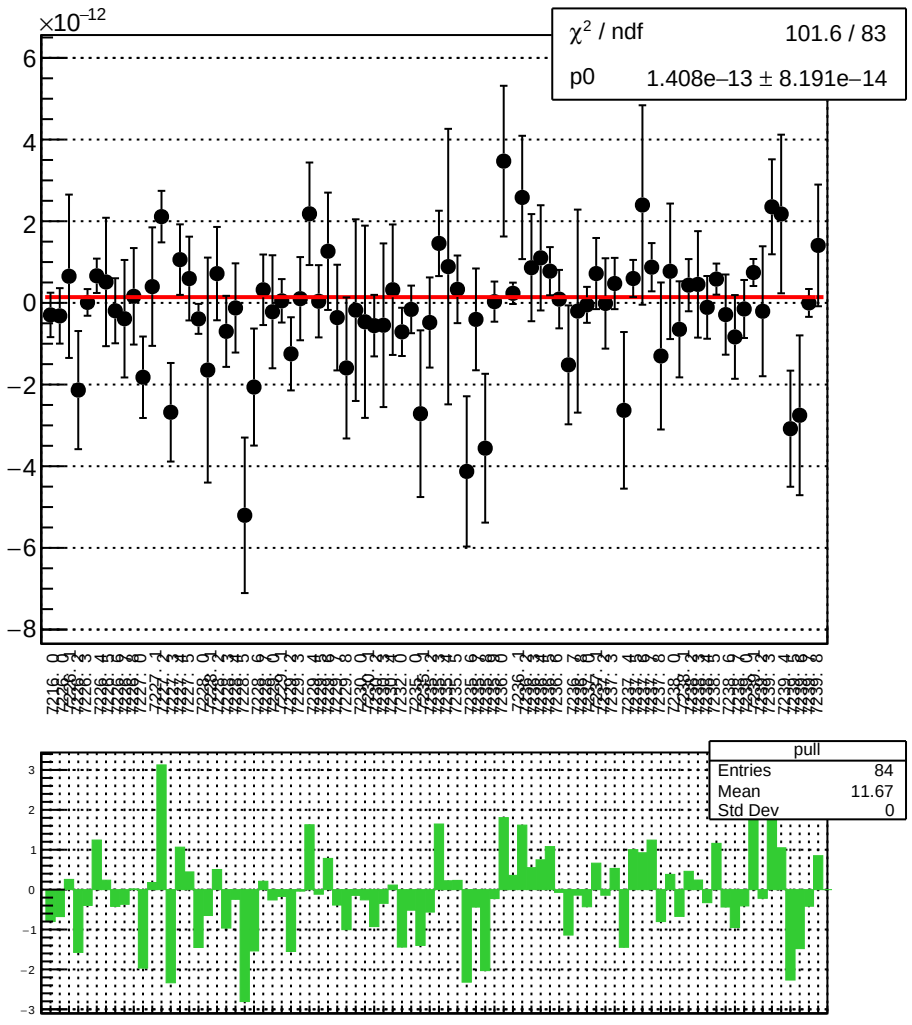

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9179 / 83
p0 0.01666 ± 1.31e−05
0.022
0.021
0.02
0.019
0.018
0.017
0.016
0.015
0.014

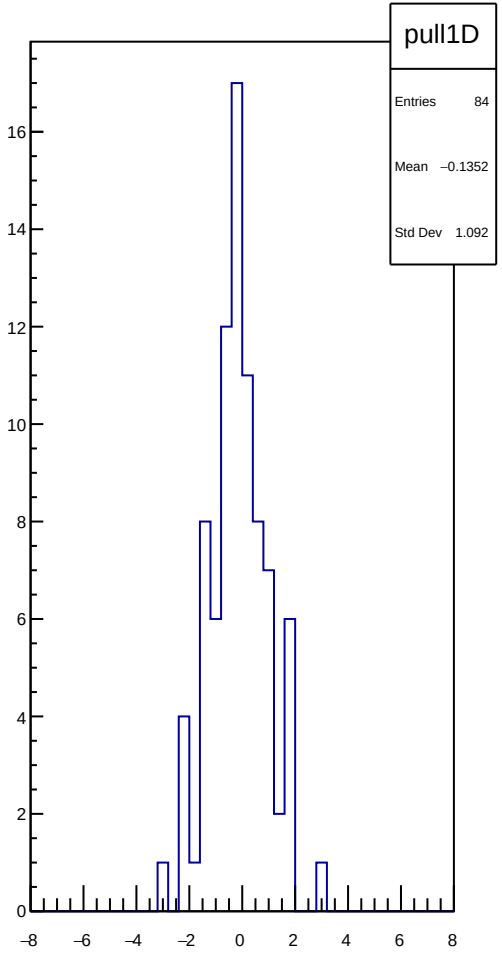

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 109.7 / 83
p0 0.1541 ± 0.419
pull
Entries 84
Mean −6.721
Std Dev 0
pull1D
Entries 84
Mean −0.01272
Std Dev 1.143

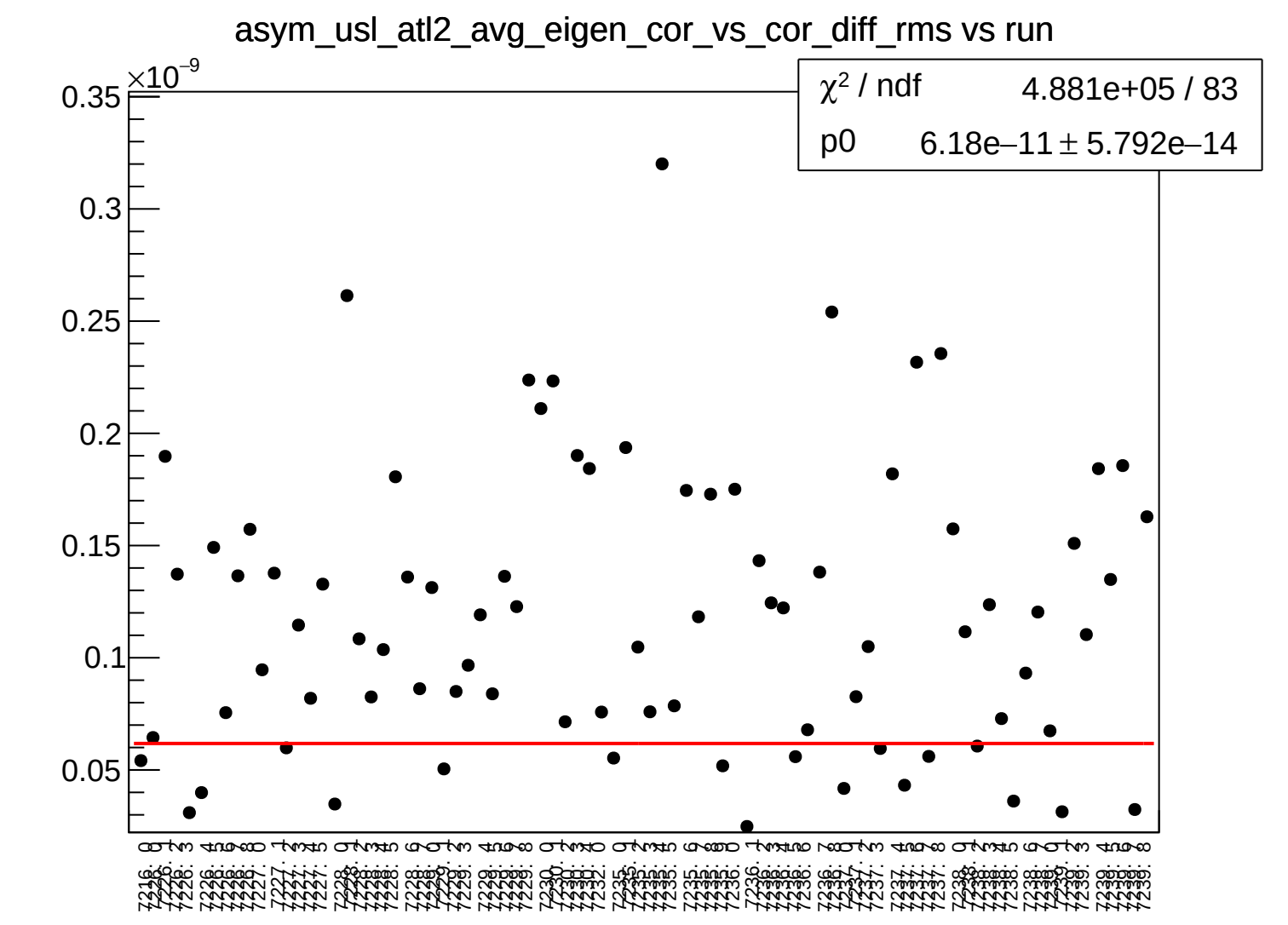

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.35e+04 / 83
p0 376.3 ± 0.2963
480
460
440
420
400
380
360
340
320
300
280
260

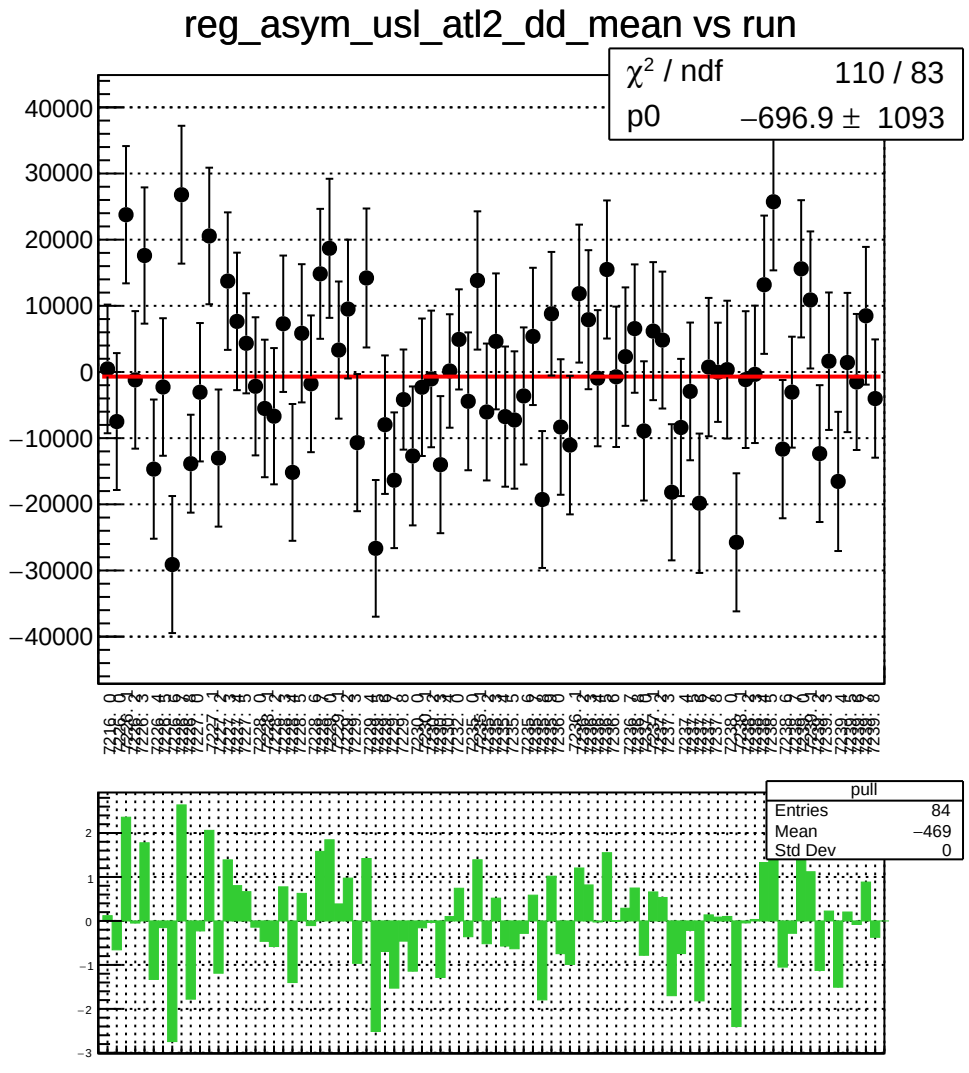

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.7 / 83
p0 0.1541 ± 0.419
pull
Entries 84
Mean −6.721
Std Dev 0
pull1D
Entries 84
Mean −0.01272
Std Dev 1.143

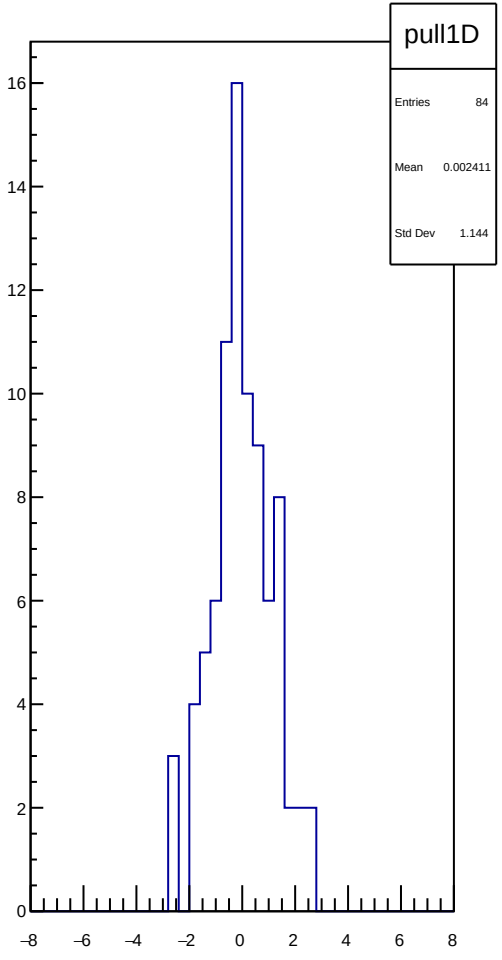

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.35e+04 / 83
p0 376.3 ± 0.2963
480
460
440
420
400
380
360
340
320
300
280
260

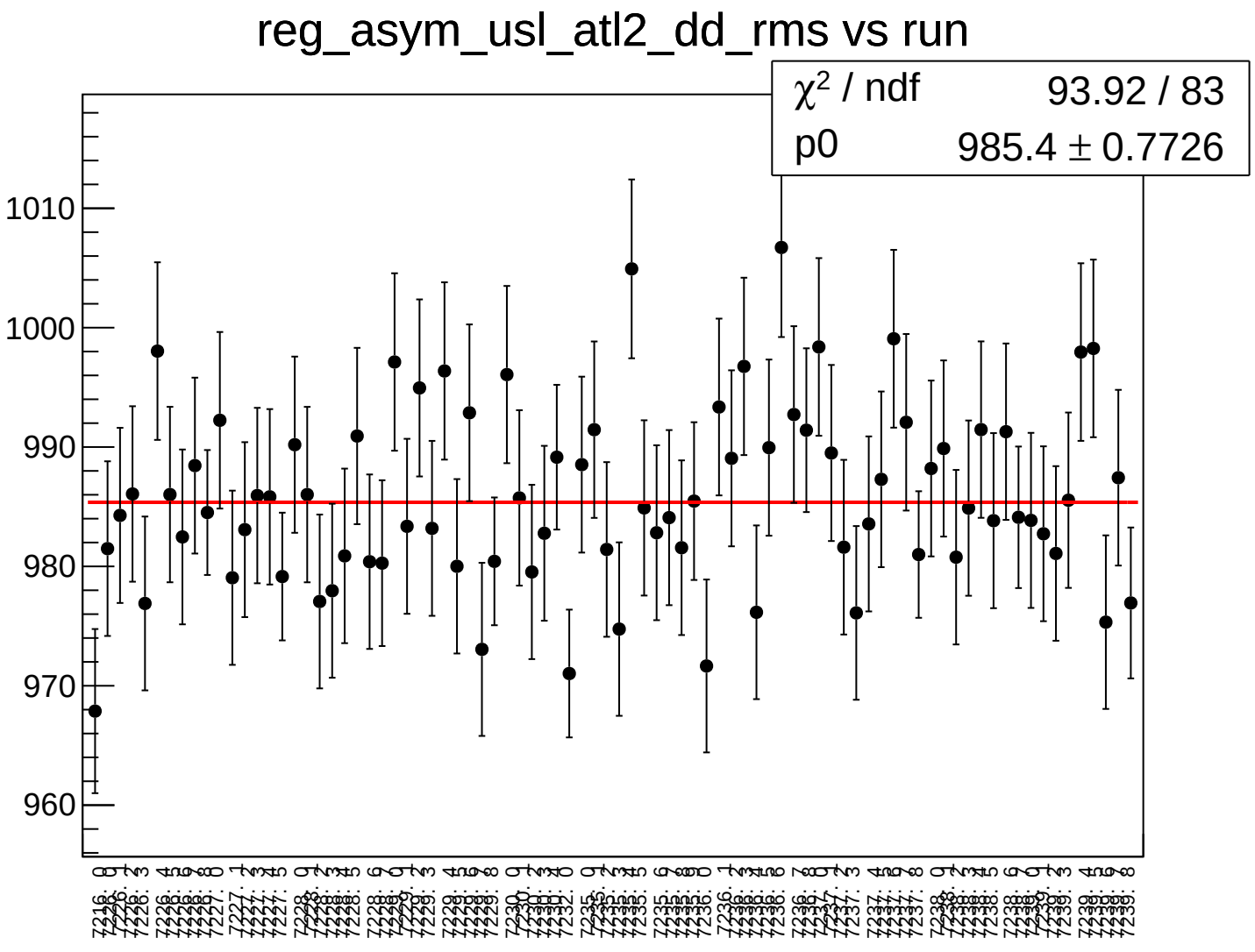

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 101.6 / 83
p0 1.408e−13 ± 8.191e−14
pull
Entries 84
Mean 11.67
Std Dev 0

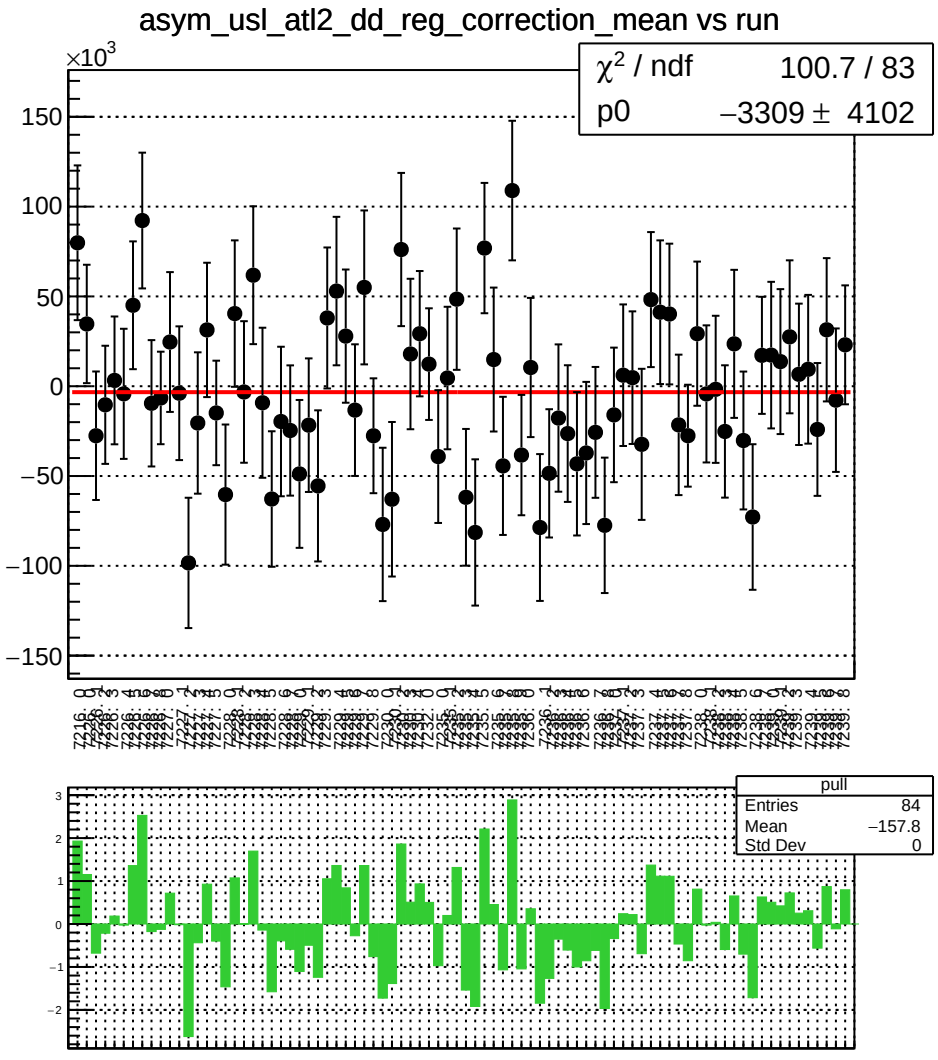

pull1D
Entries 84
Mean −0.1352
Std Dev 1.092

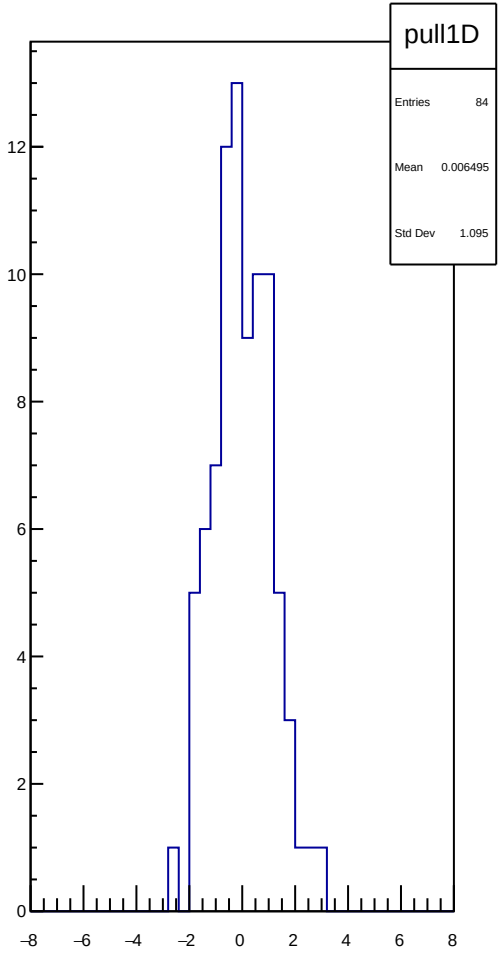

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.881e+05 / 83
p0 6.18e−11 ± 5.792e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

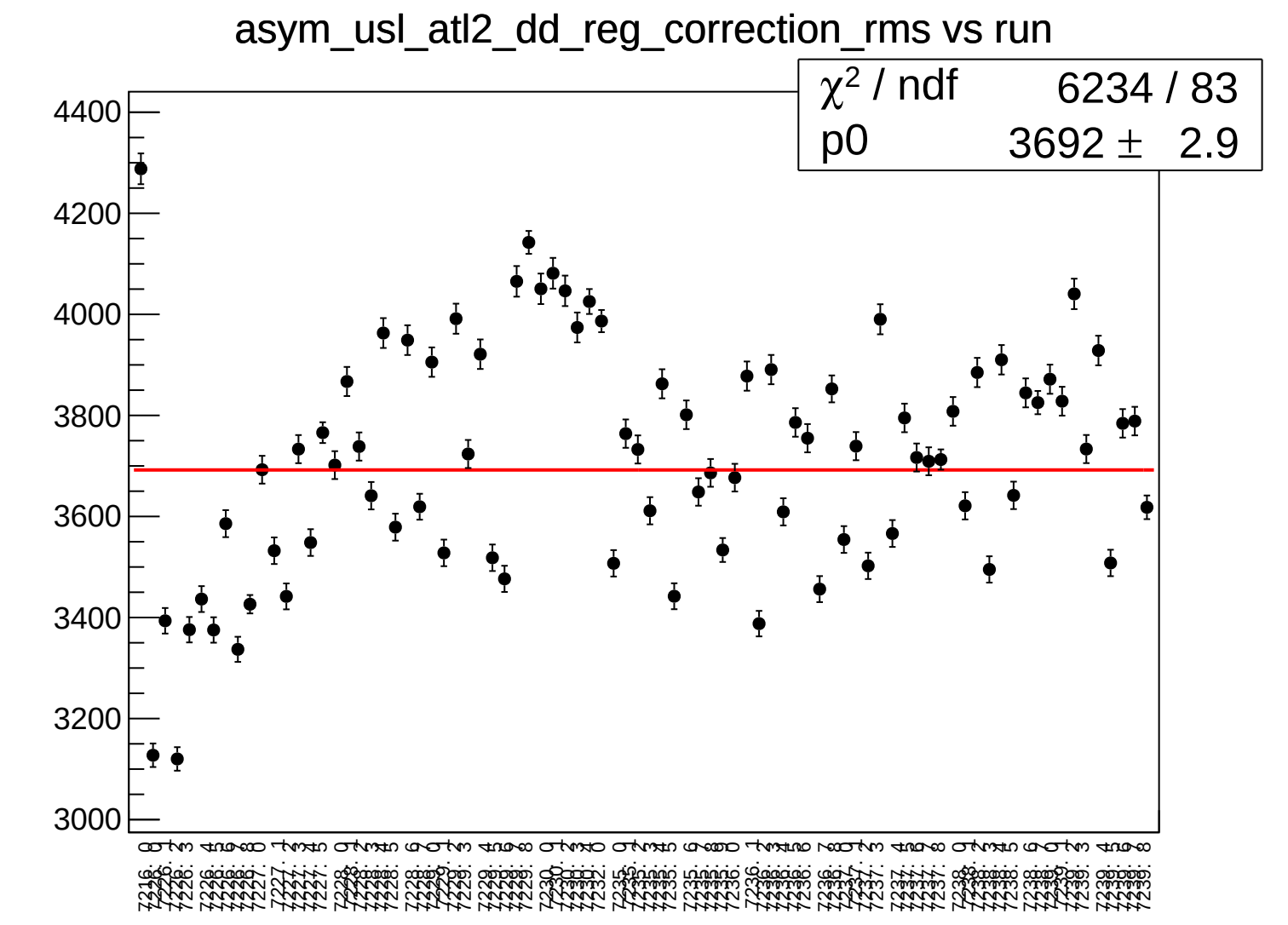

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 110 / 83
p0 −696.9 ± 1093
pull
Entries 84
Mean −469
Std Dev 0

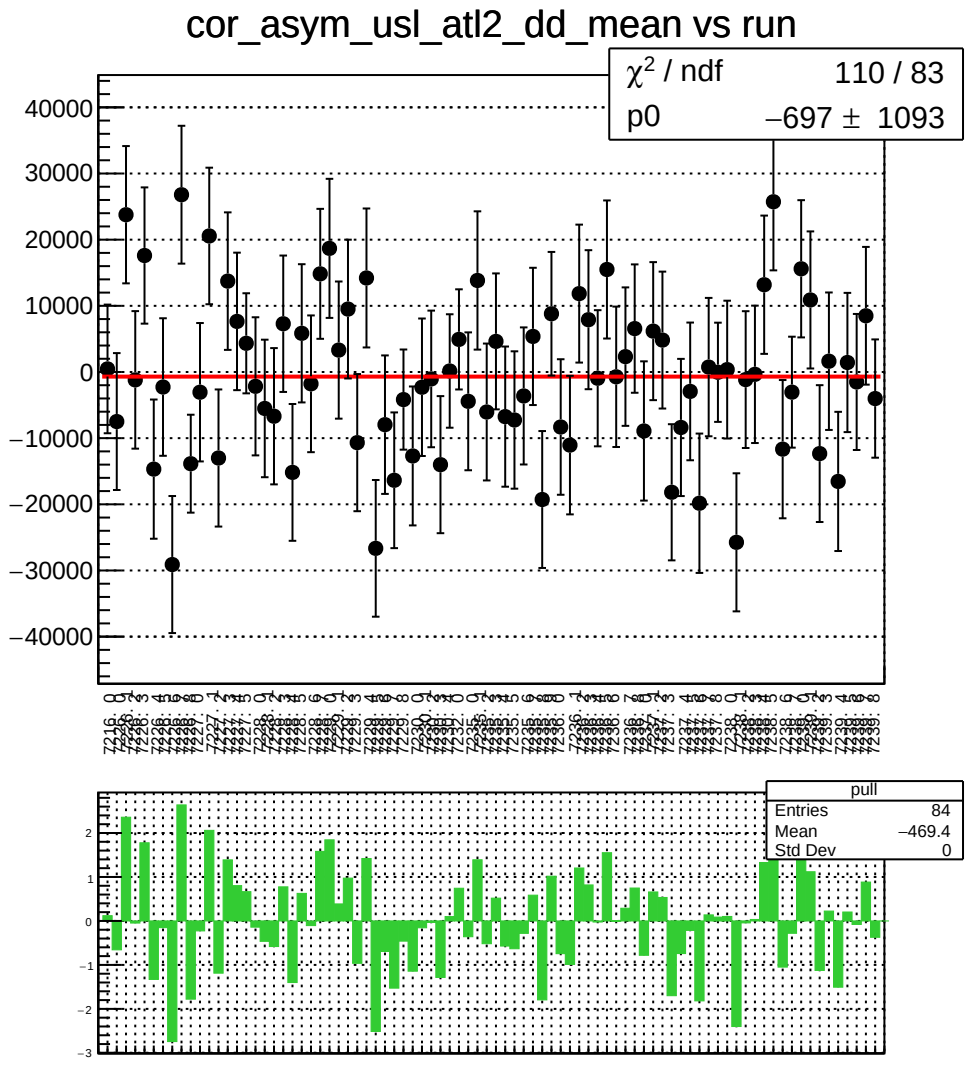

pull1D
Entries 84
Mean 0.002411
Std Dev 1.144

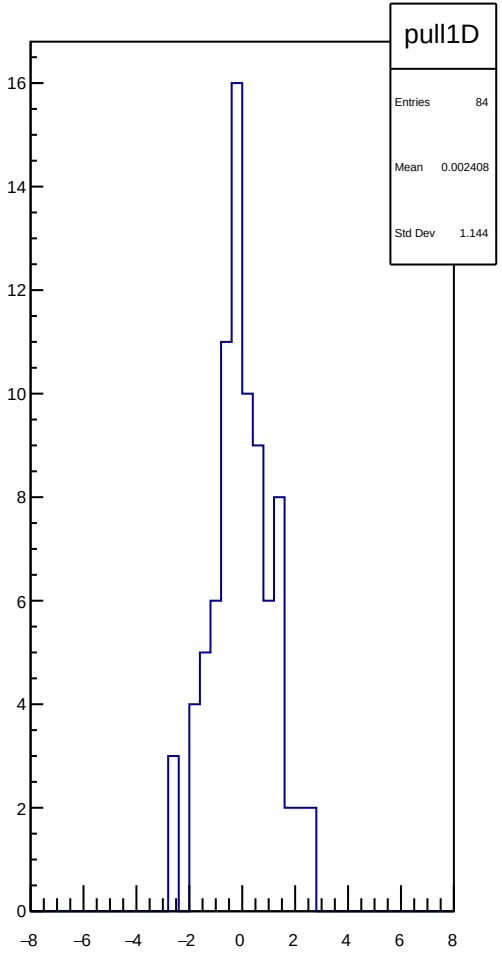

reg_asym_usl_atl2_dd_rms vs run
χ² / ndf 93.92 / 83
p0 985.4 ± 0.7726
1010
1000
990
980
970
960

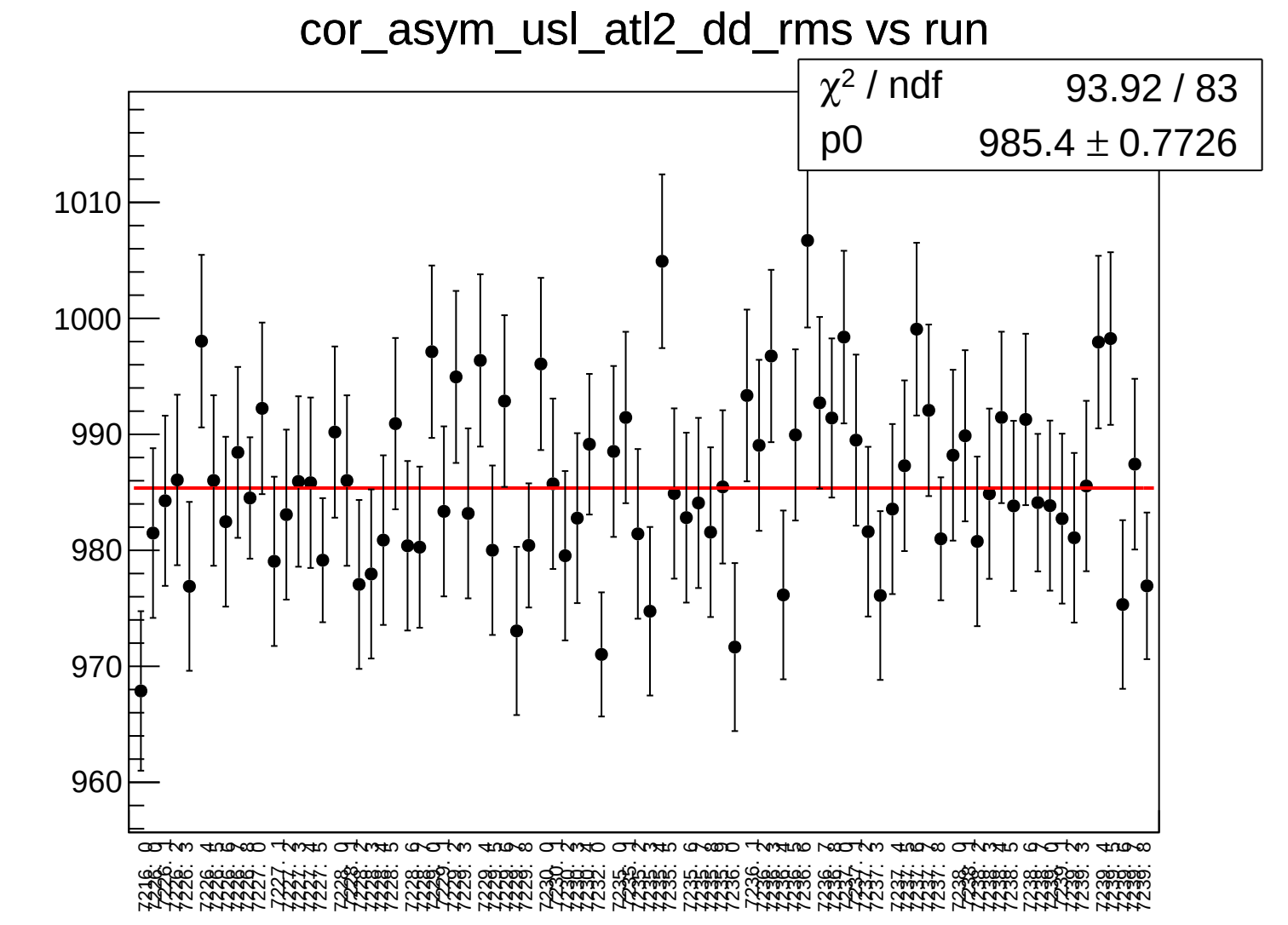

asym_usl_atl2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 100.7 / 83
p0 −3309 ± 4102
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −157.8
Std Dev 0
3
2
1
0
−1
−2

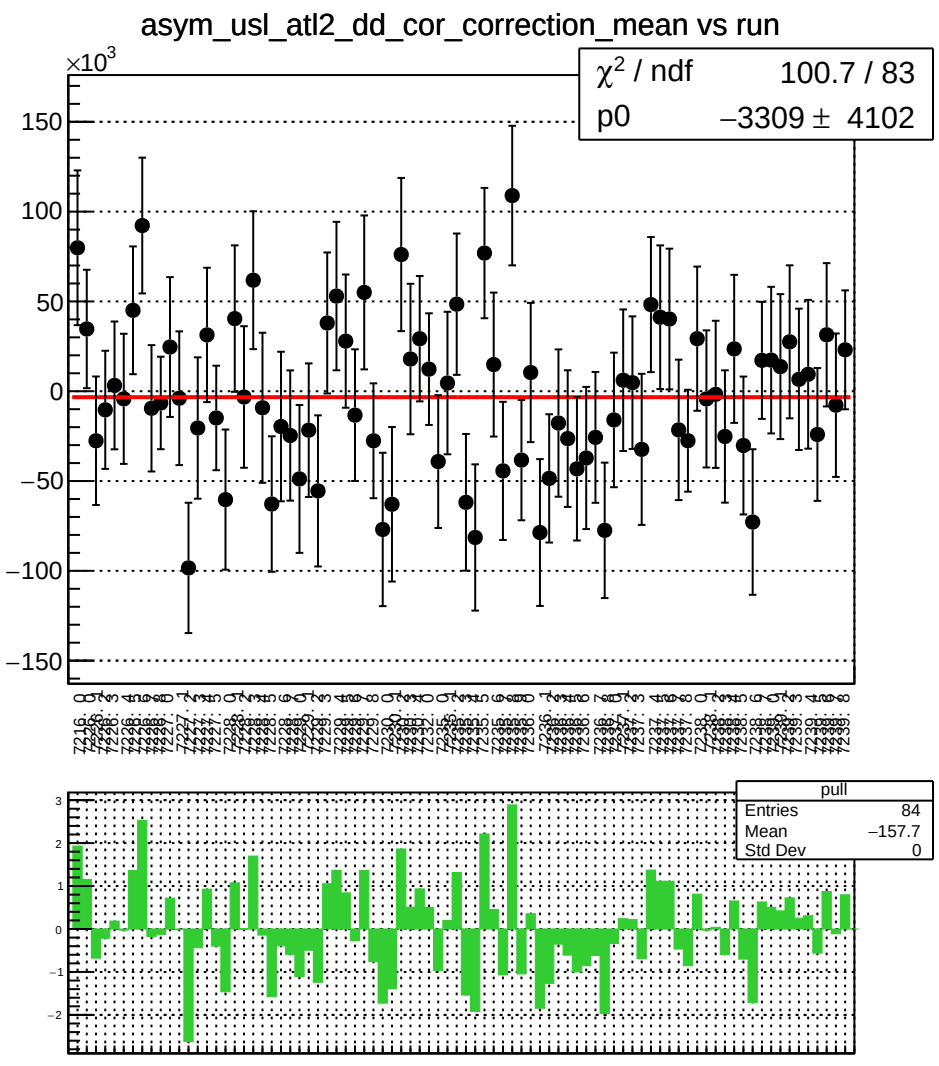

pull1D
Entries 84
Mean 0.006495
Std Dev 1.095
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

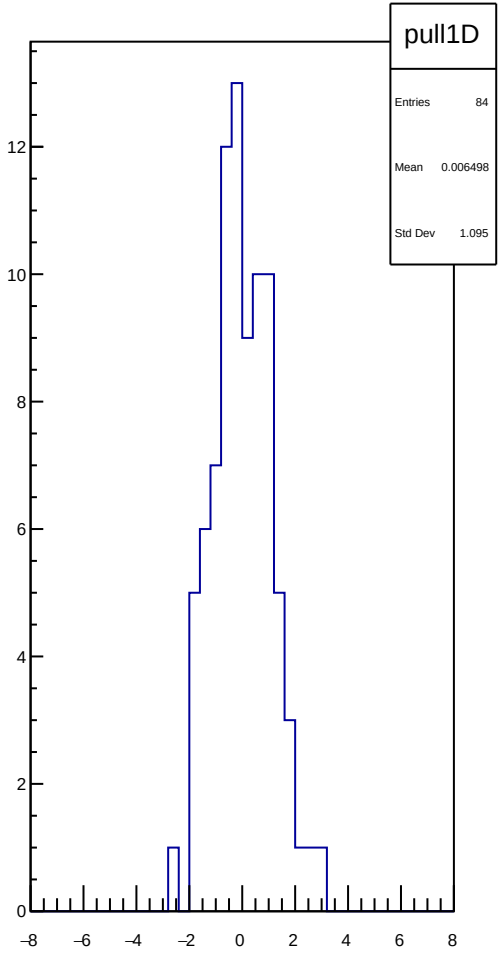

asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 6234 / 83
p0 3692 ± 2.9
4400
4200
4000
3800
3600
3400
3200
3000

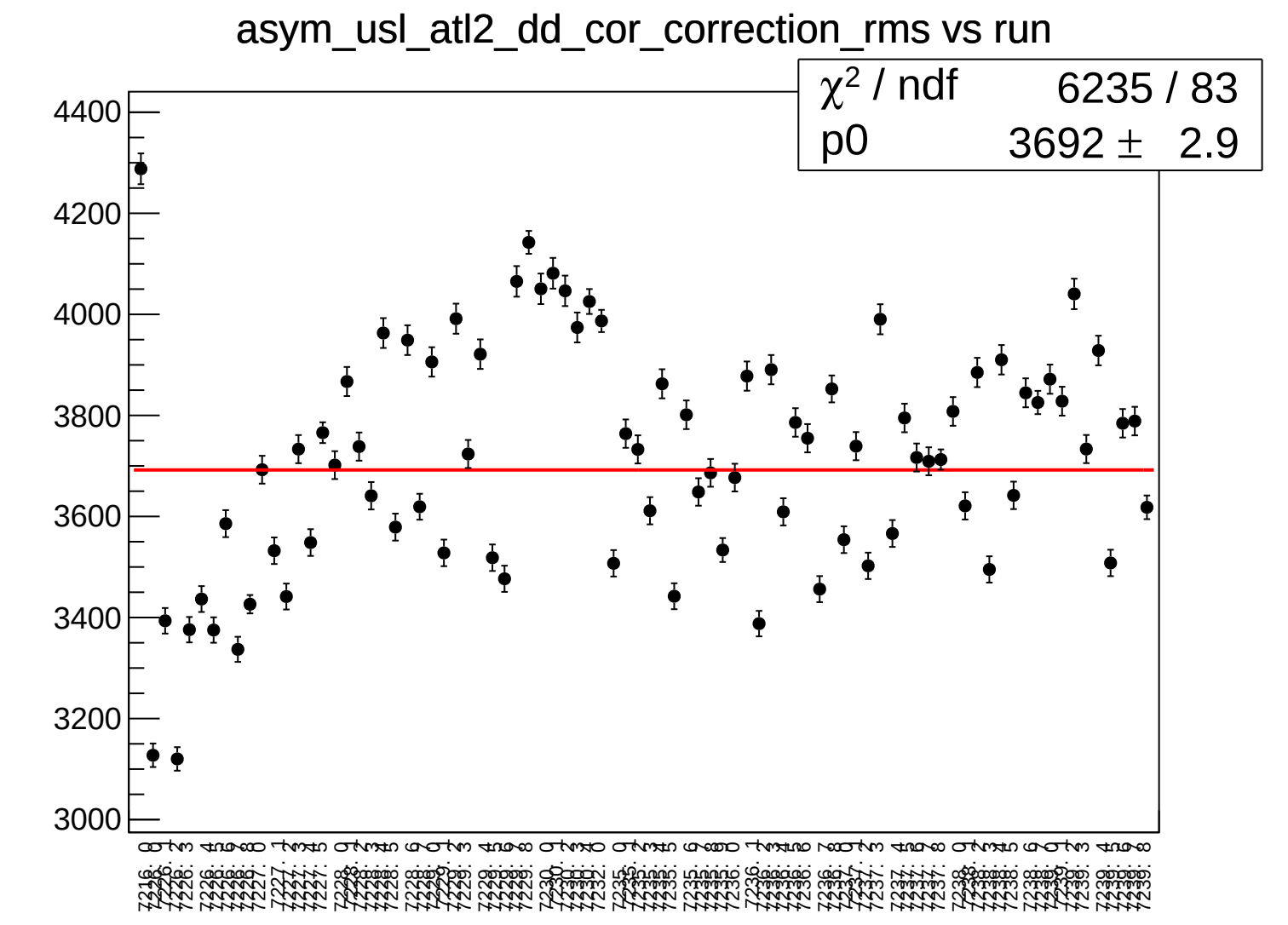

cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 110 / 83
p0 −697 ± 1093
pull
Entries 84
Mean −469.4
Std Dev 0

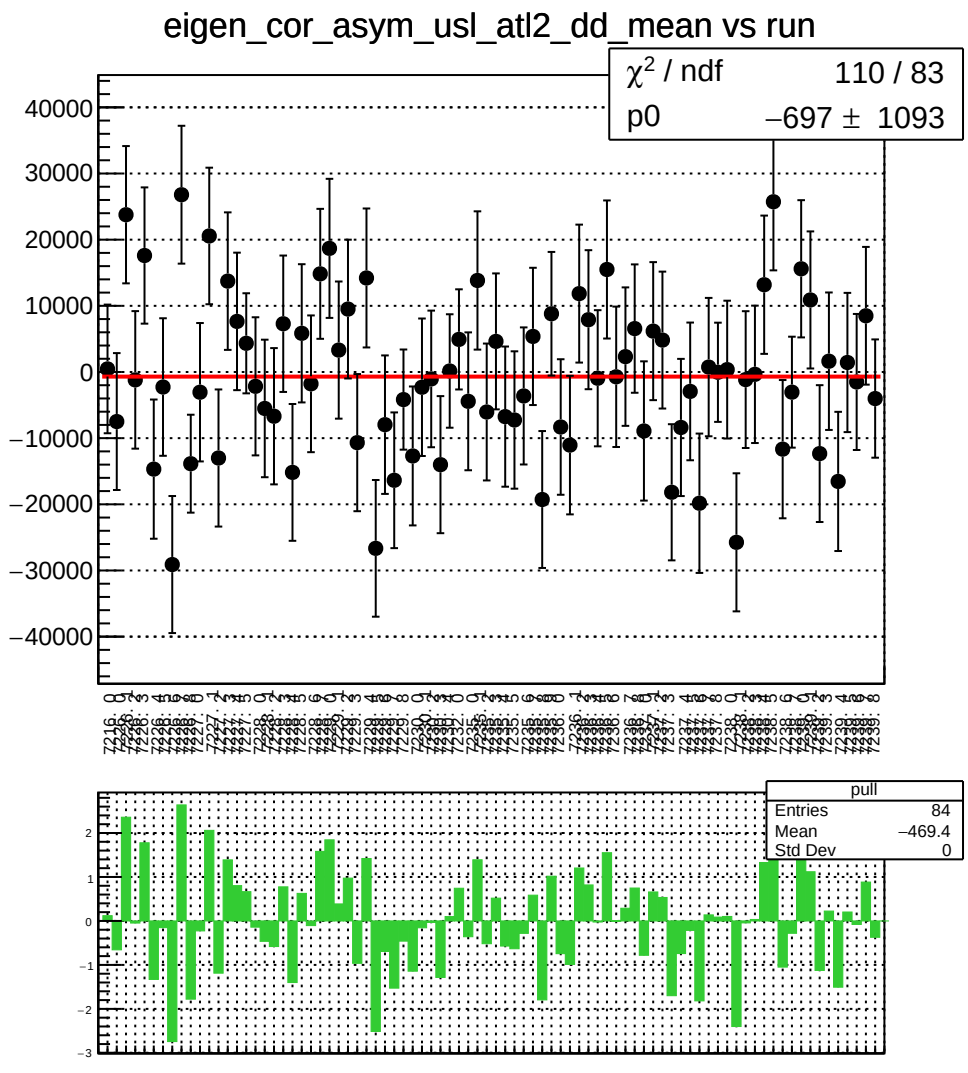

pull1D
Entries 84
Mean 0.002408
Std Dev 1.144

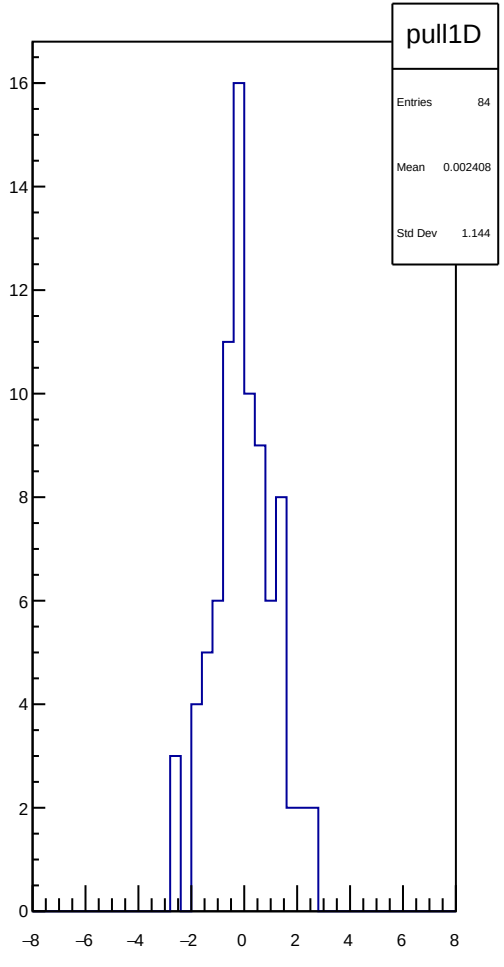

cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 93.92 / 83
p0 985.4 ± 0.7726
1010
1000
990
980
970
960

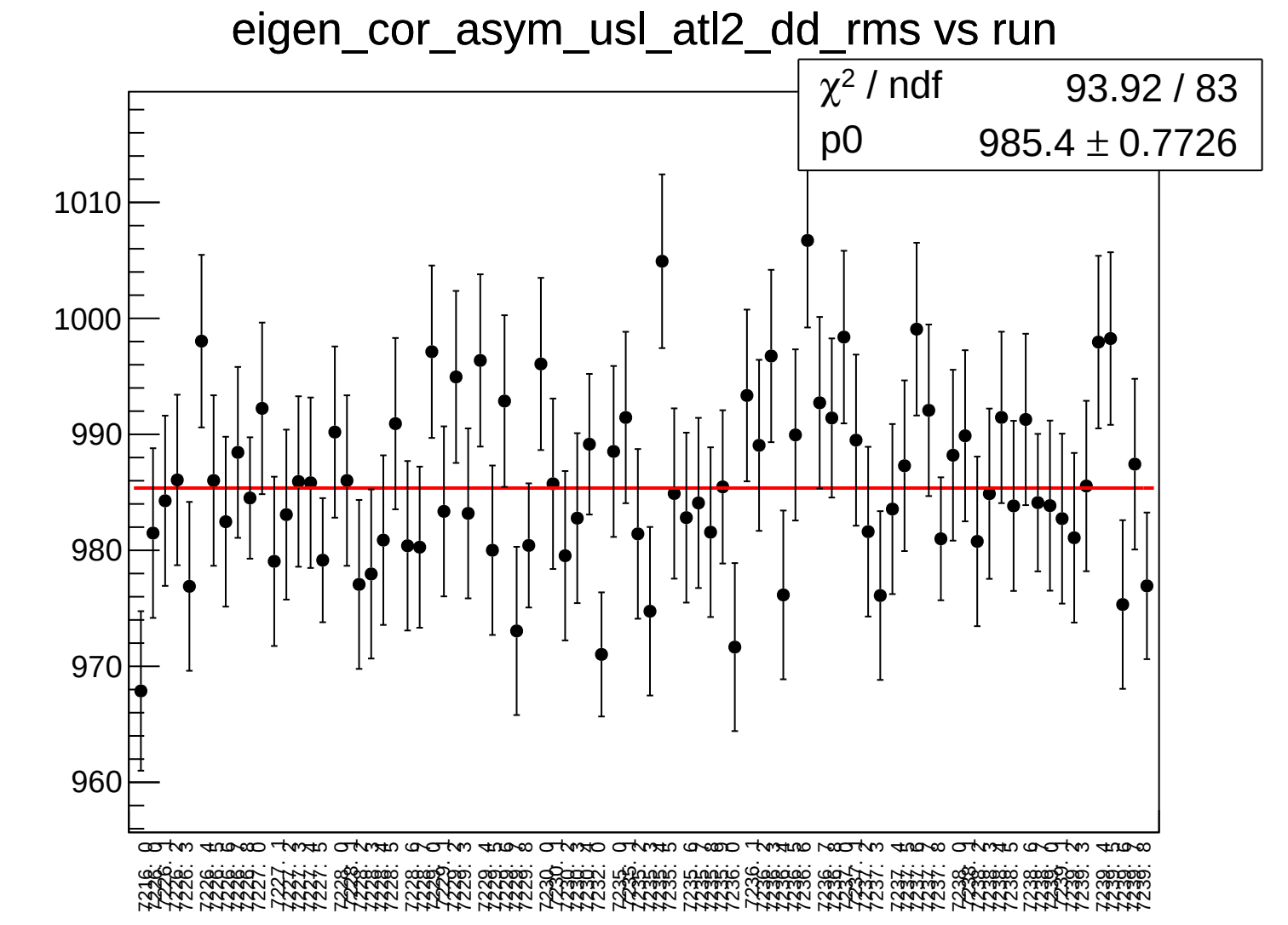

asym_usl_atl2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 100.7 / 83
p0 −3309 ± 4102
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −157.7
Std Dev 0
3
2
1
0
−1
−2

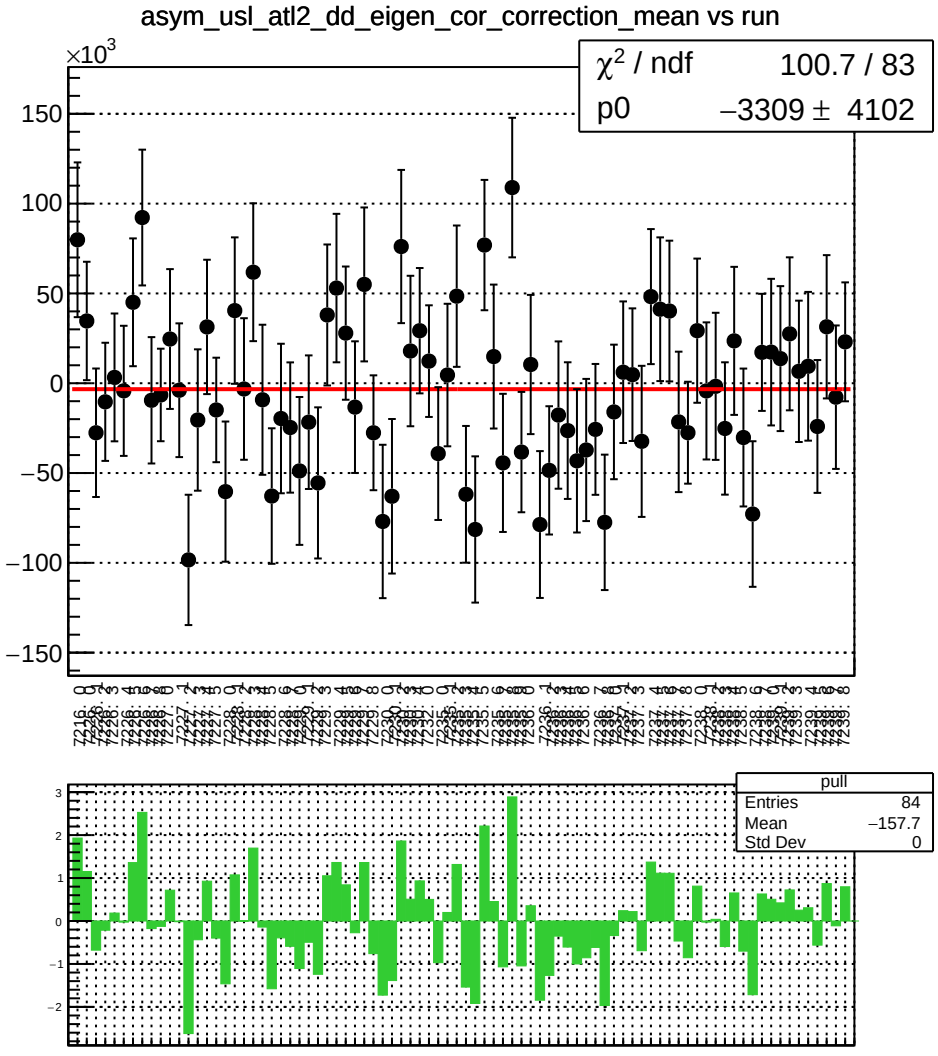

pull1D
Entries 84
Mean 0.006498
Std Dev 1.095
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

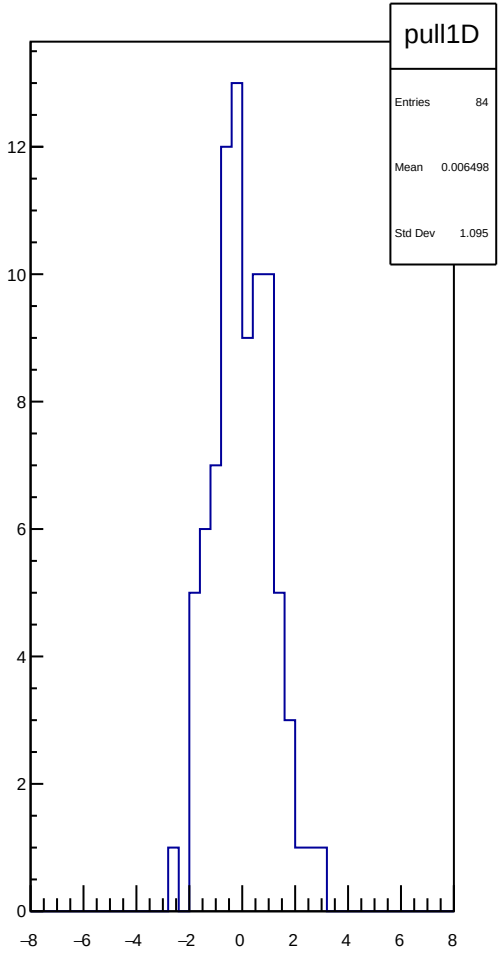

asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 6235 / 83
p0 3692 ± 2.9
4400
4200
4000
3800
3600
3400
3200
3000

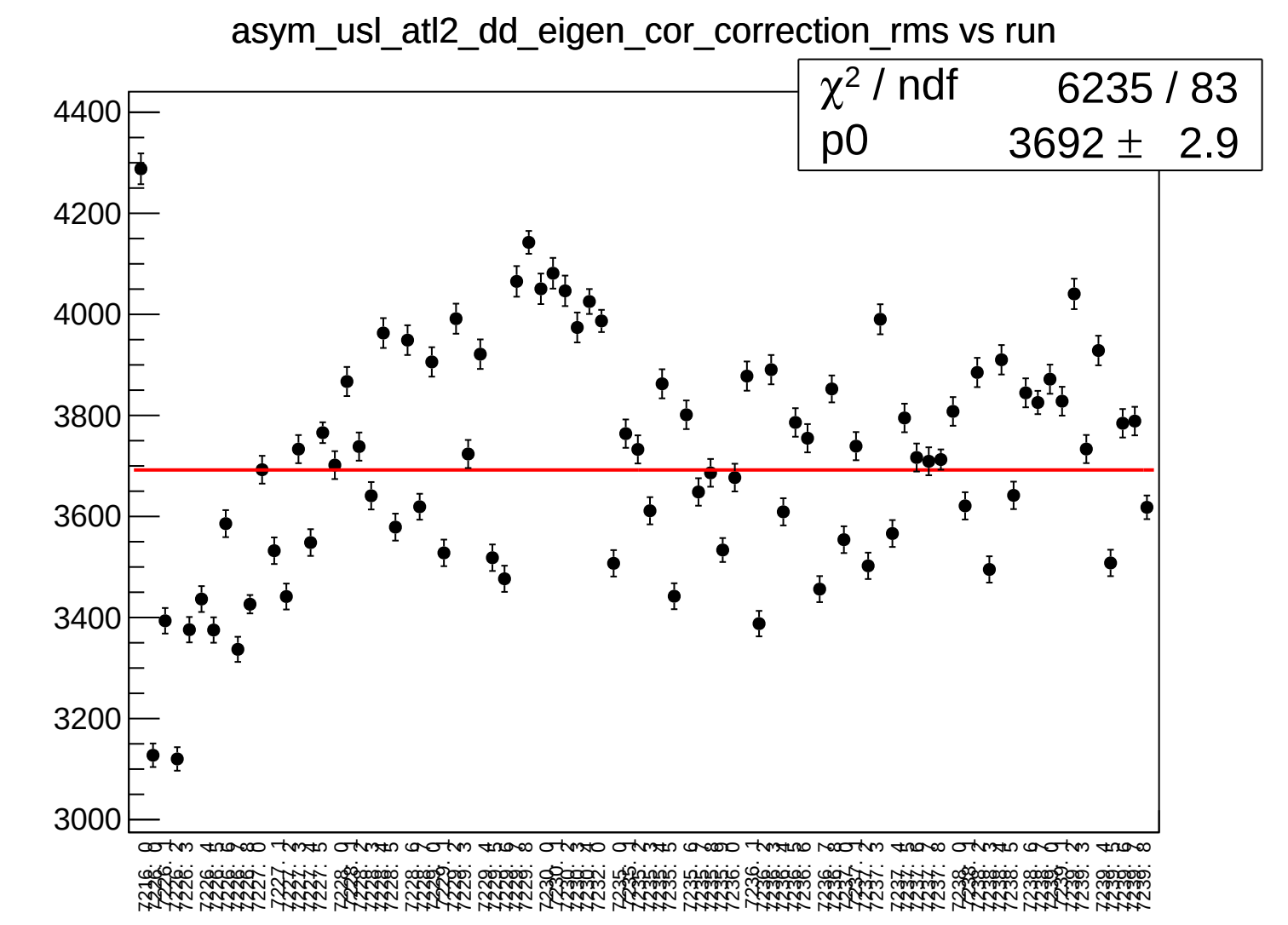

eigen_cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 110 / 83
p0 −697 ± 1093
pull
Entries 84
Mean −469.4
Std Dev 0

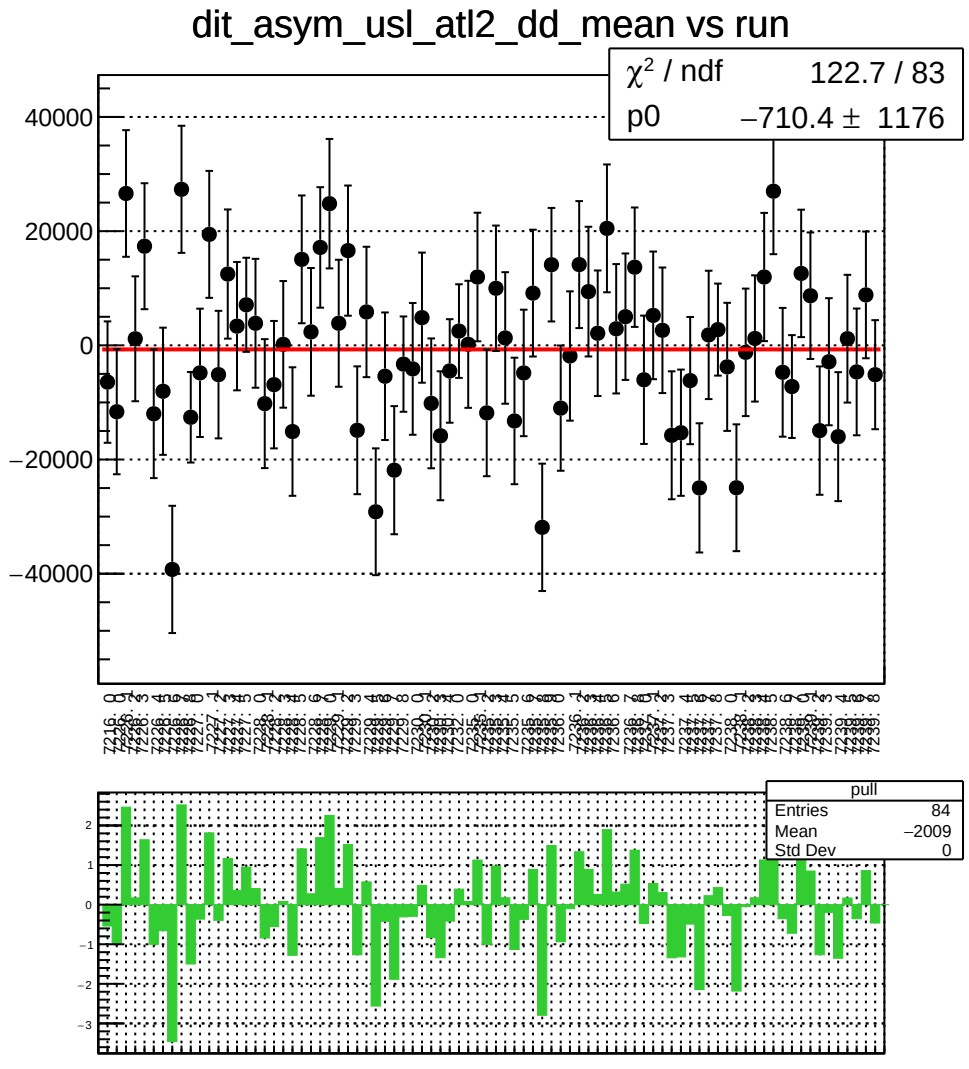

pull1D
Entries 84
Mean 0.002408
Std Dev 1.144

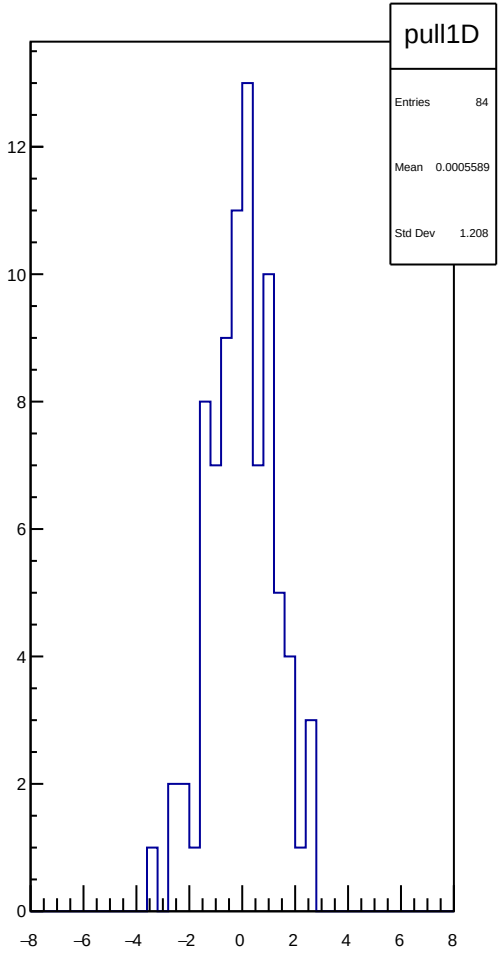

eigen_cor_asym_usl_atl2_dd_rms vs run
χ^2 / ndf 93.92 / 83
p0 985.4 ± 0.7726
1010
1000
990
980
970
960


asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 100.7 / 83
p0 −3309 ± 4102
pull
Entries 84
Mean −157.7
Std Dev 0


pull1D
Entries 84
Mean 0.006498
Std Dev 1.095


asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 6235 / 83
p0 3692 ± 2.9
4400
4200
4000
3800
3600
3400
3200
3000


dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 122.7 / 83
p0 −710.4 ± 1176
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −2009
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 84
Mean 0.0005589
Std Dev 1.208
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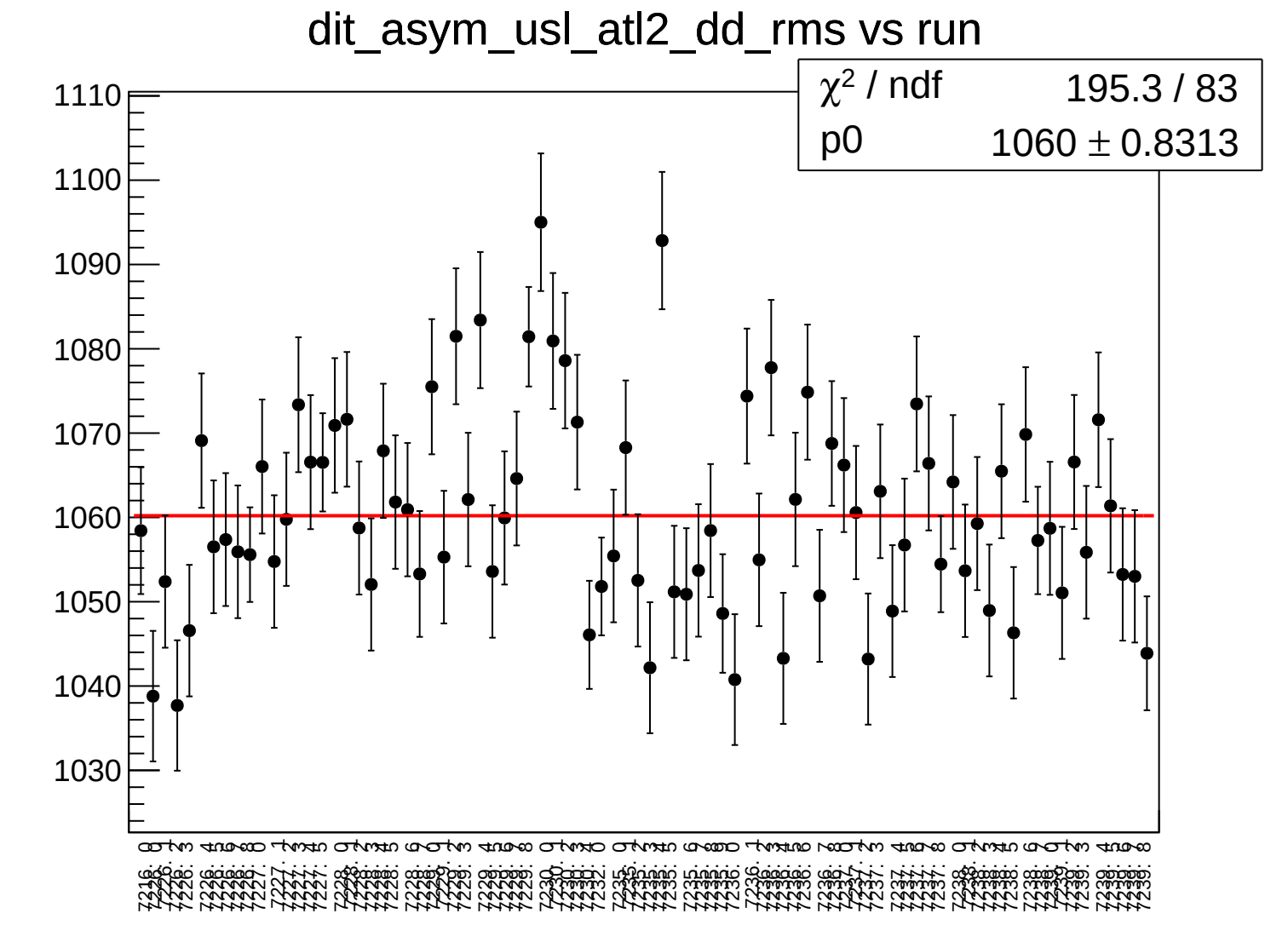
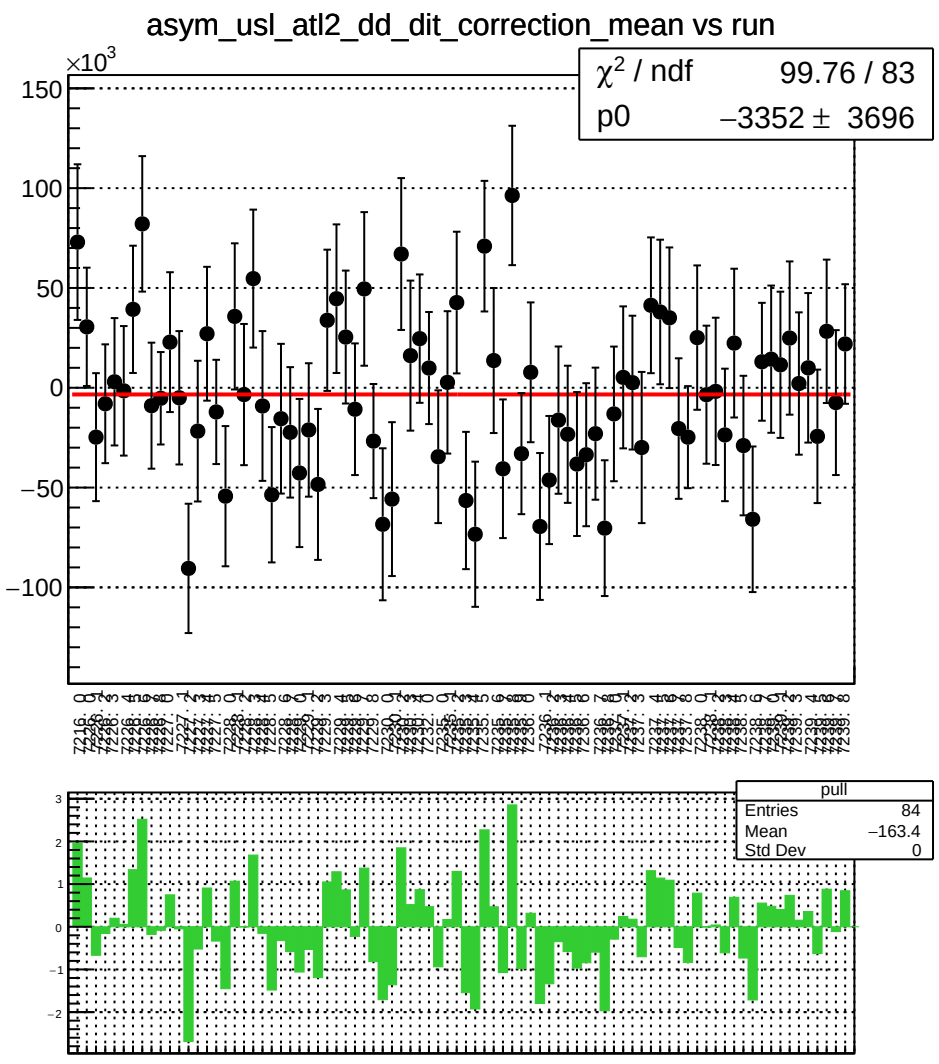
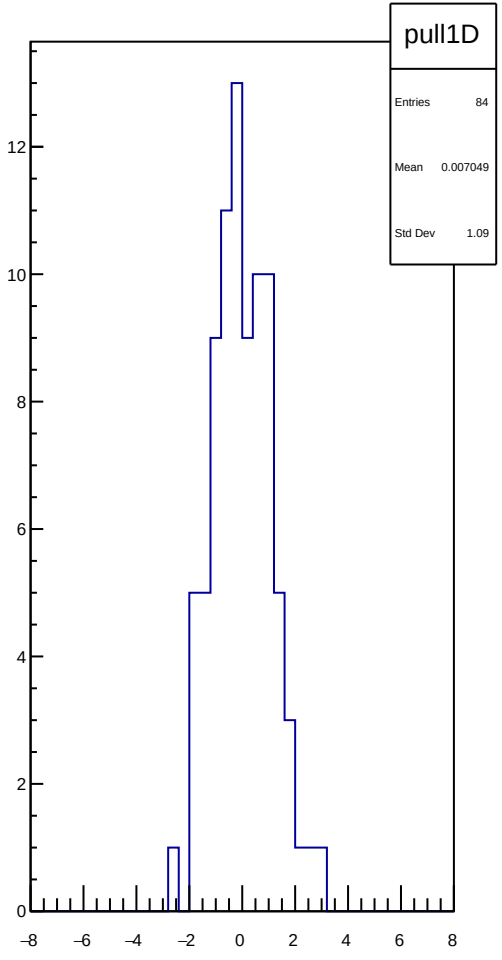
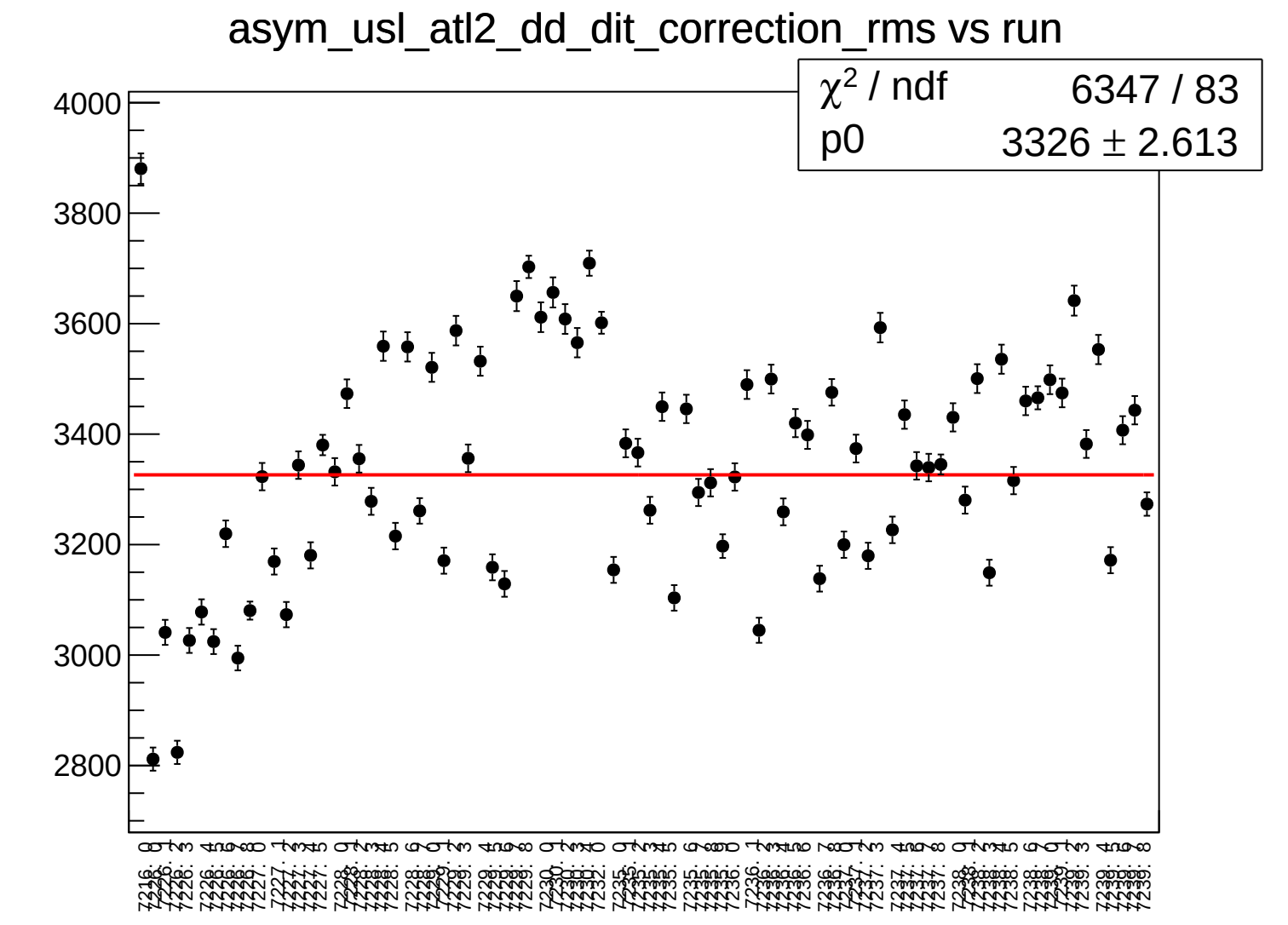
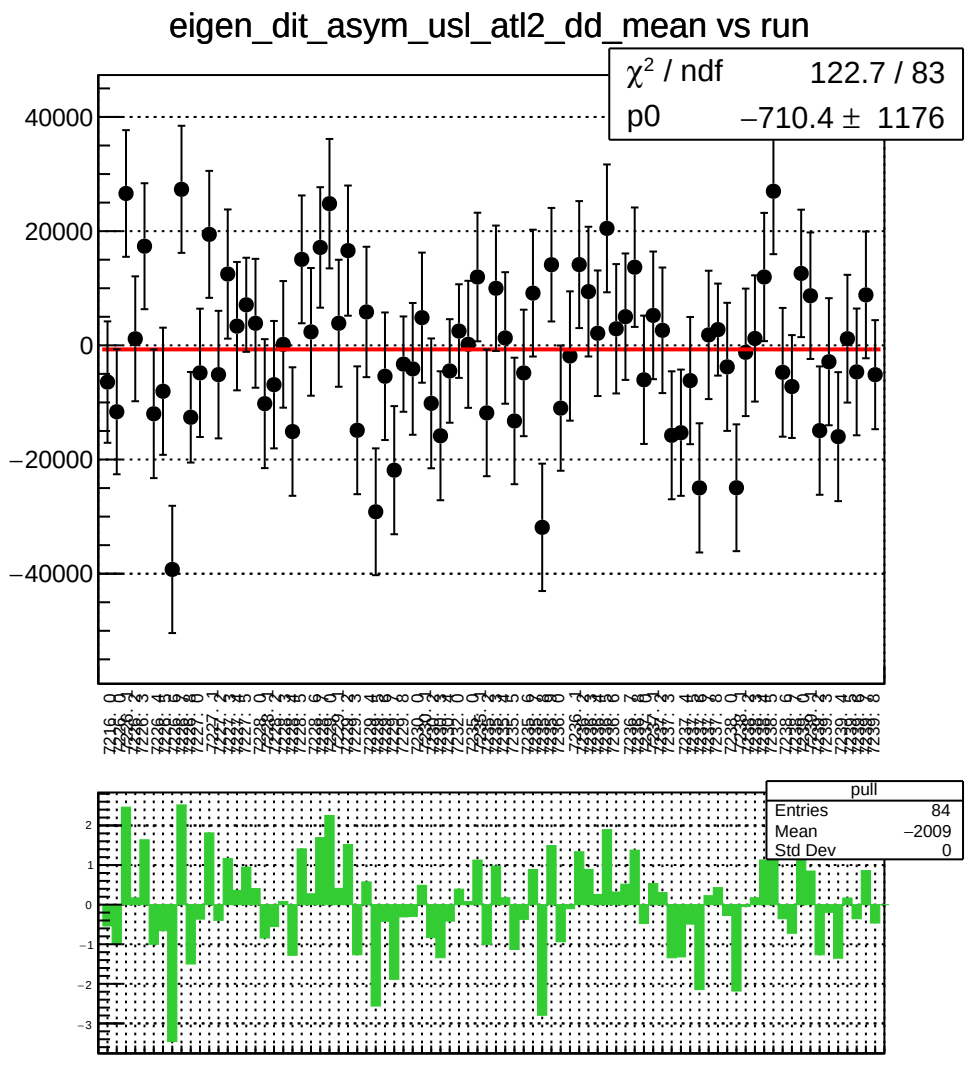
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

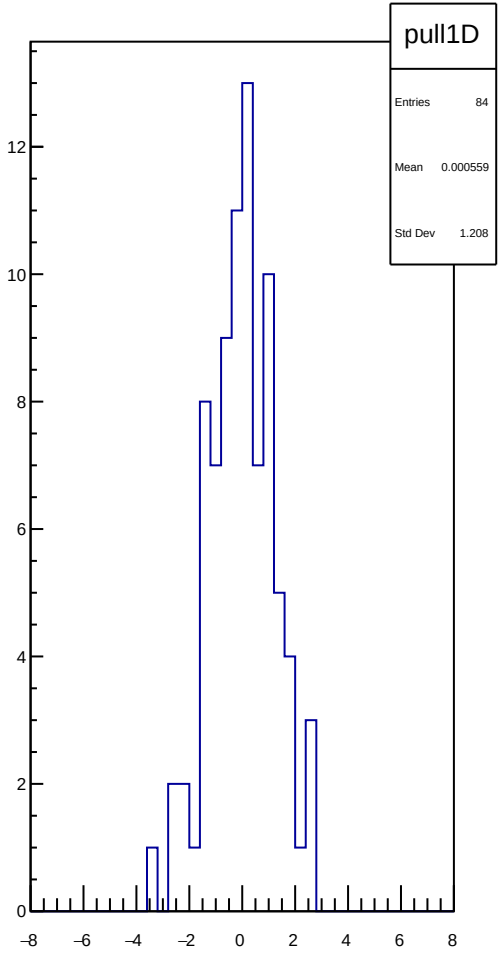

dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 195.3 / 83
p0 1060 ± 0.8313
1110
1100
1090
1080
1070
1060
1050
1040
1030

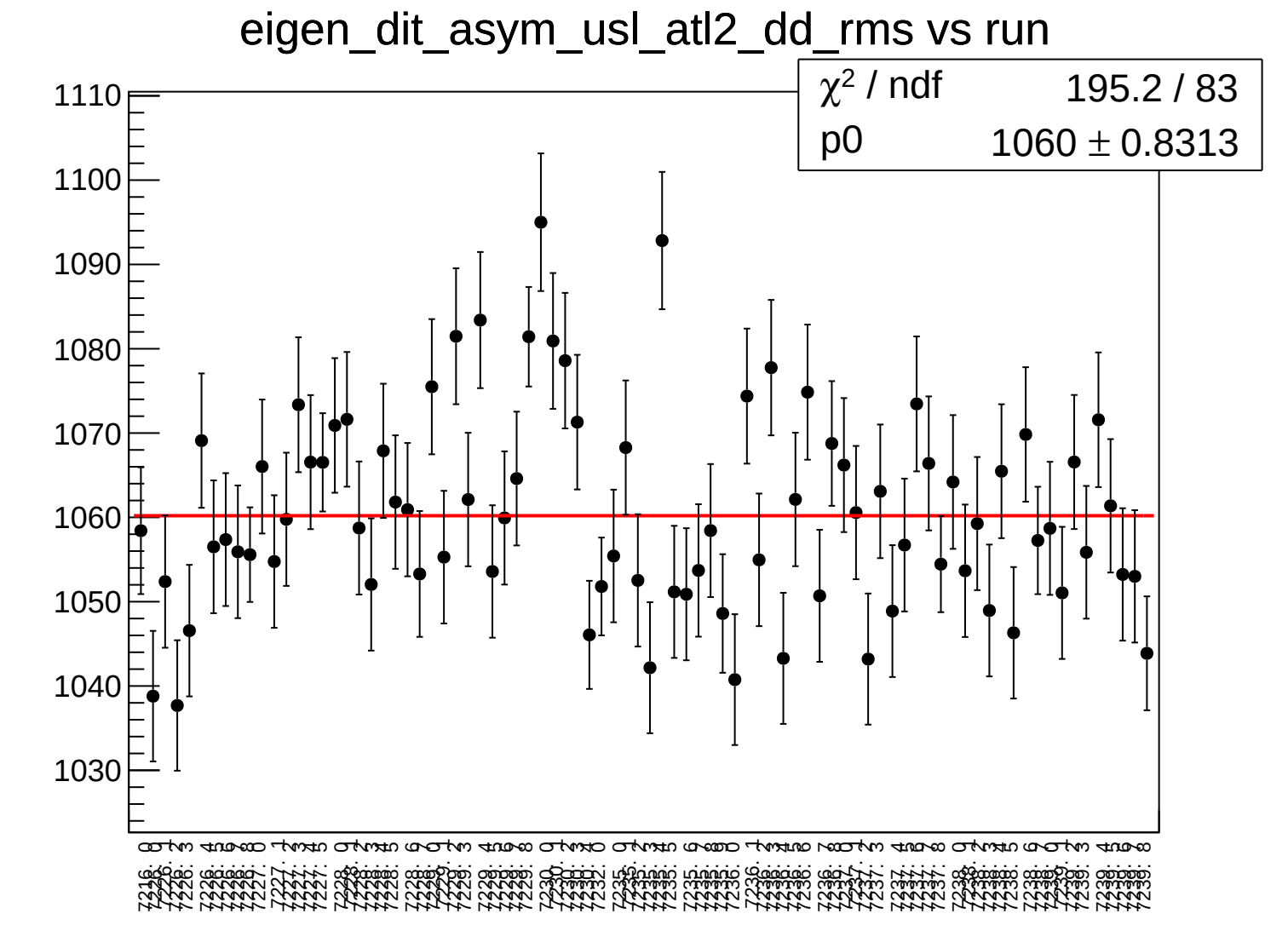

asym_usl_atl2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 99.76 / 83
p0 −3352 ± 3696
150
100
50
0
−50
−100
pull
Entries 84
Mean −163.4
Std Dev 0
3
2
1
0
−1
−2

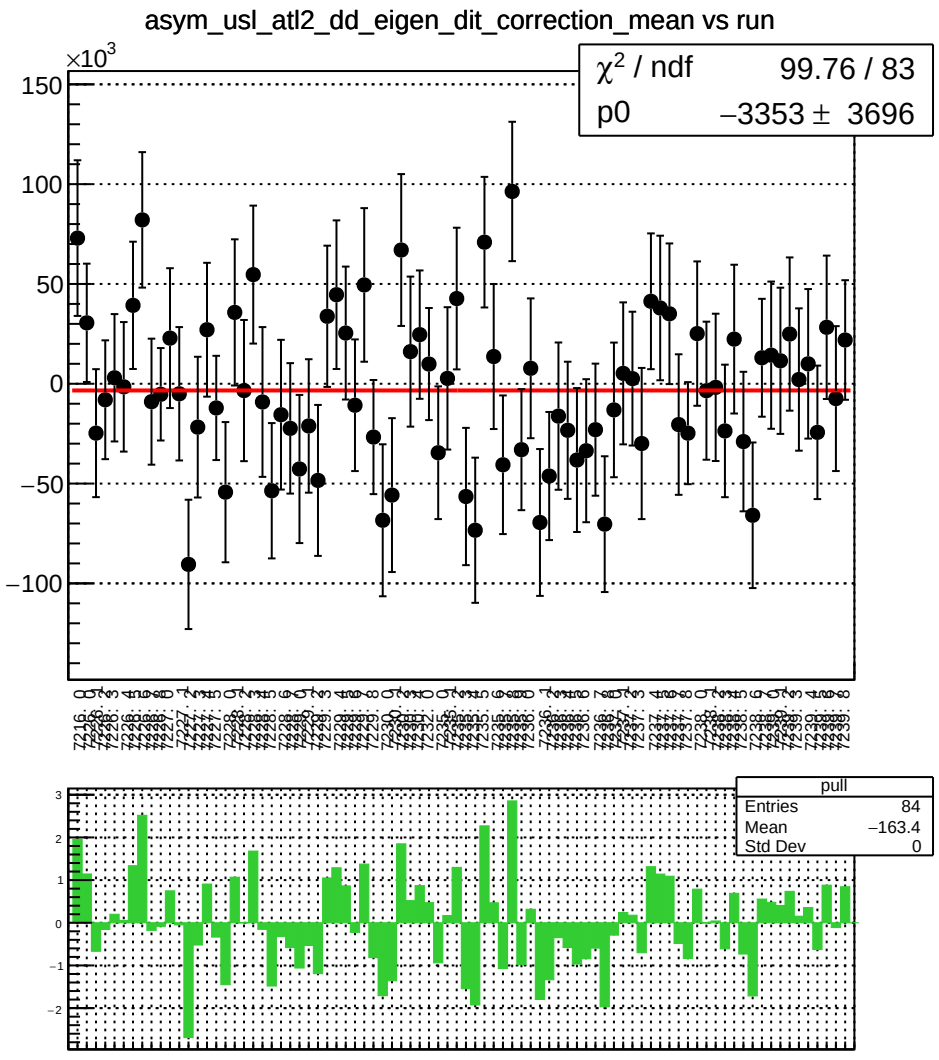

pull1D
Entries 84
Mean 0.007049
Std Dev 1.09
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

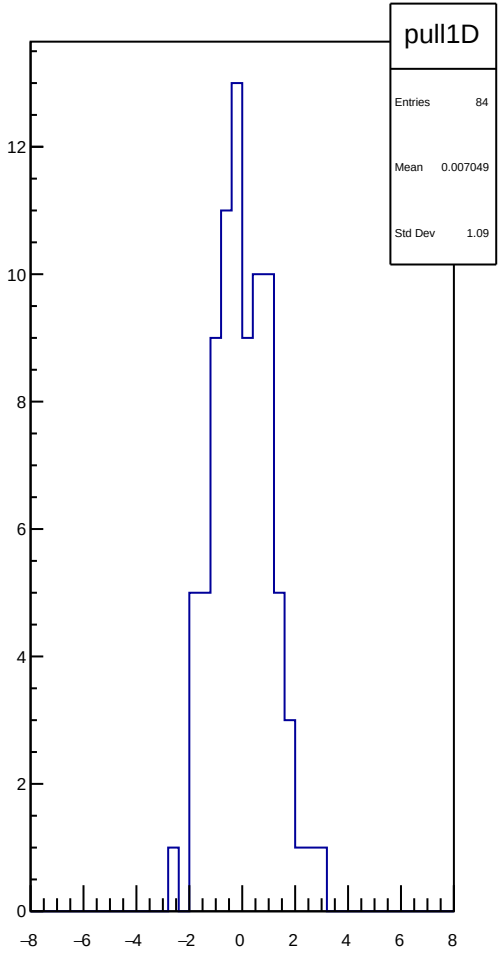

asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 6347 / 83
p0 3326 ± 2.613
4000
3800
3600
3400
3200
3000
2800

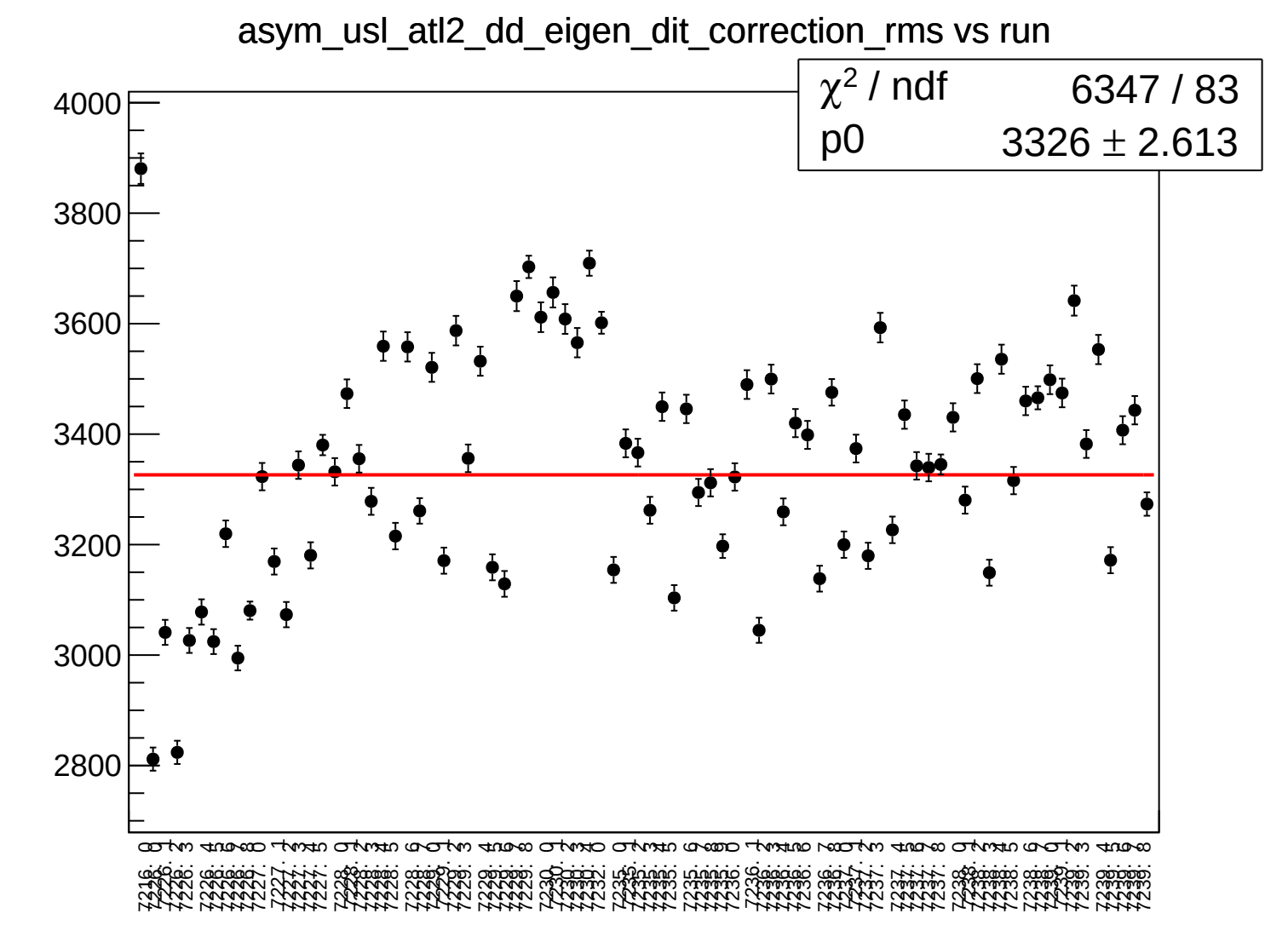

eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 122.7 / 83
p0 −710.4 ± 1176
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −2009
Std Dev 0
2
1
0
−1
−2
−3

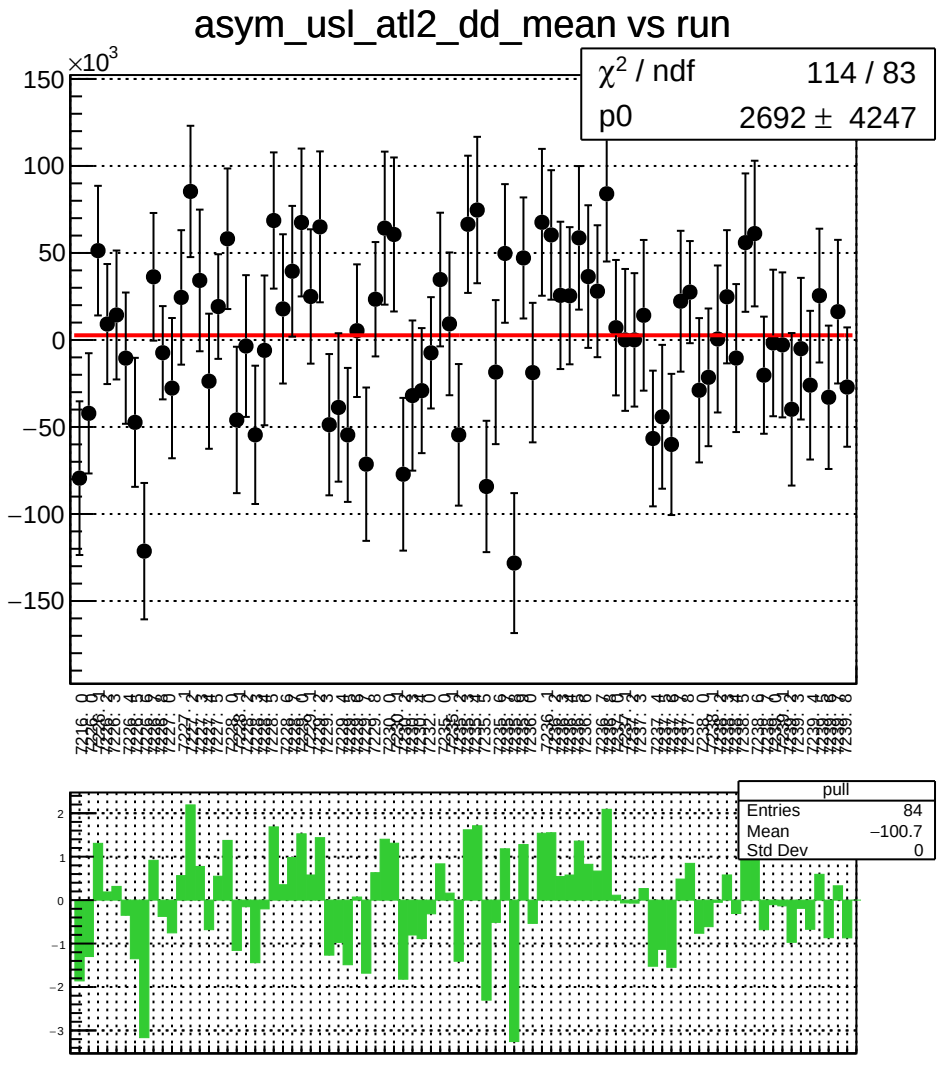

pull1D
Entries 84
Mean 0.000559
Std Dev 1.208
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

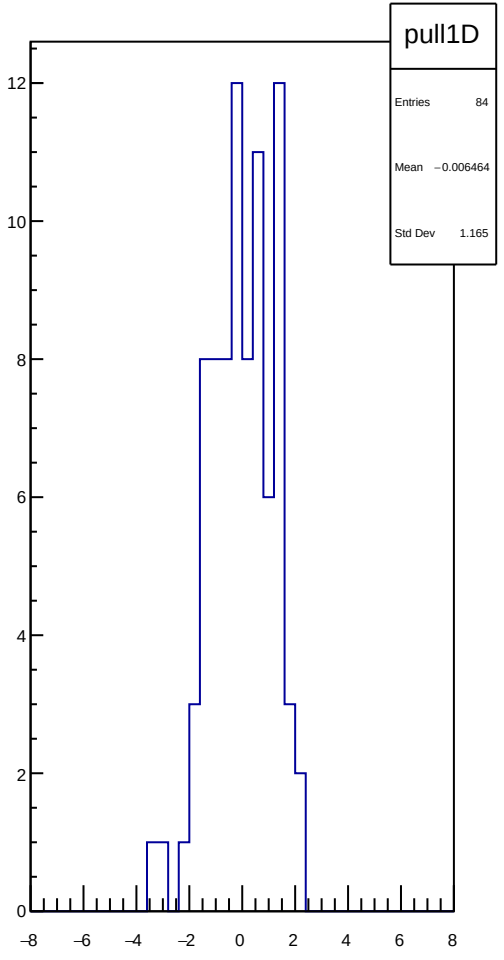

eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 195.2 / 83
p0 1060 ± 0.8313
1110
1100
1090
1080
1070
1060
1050
1040
1030

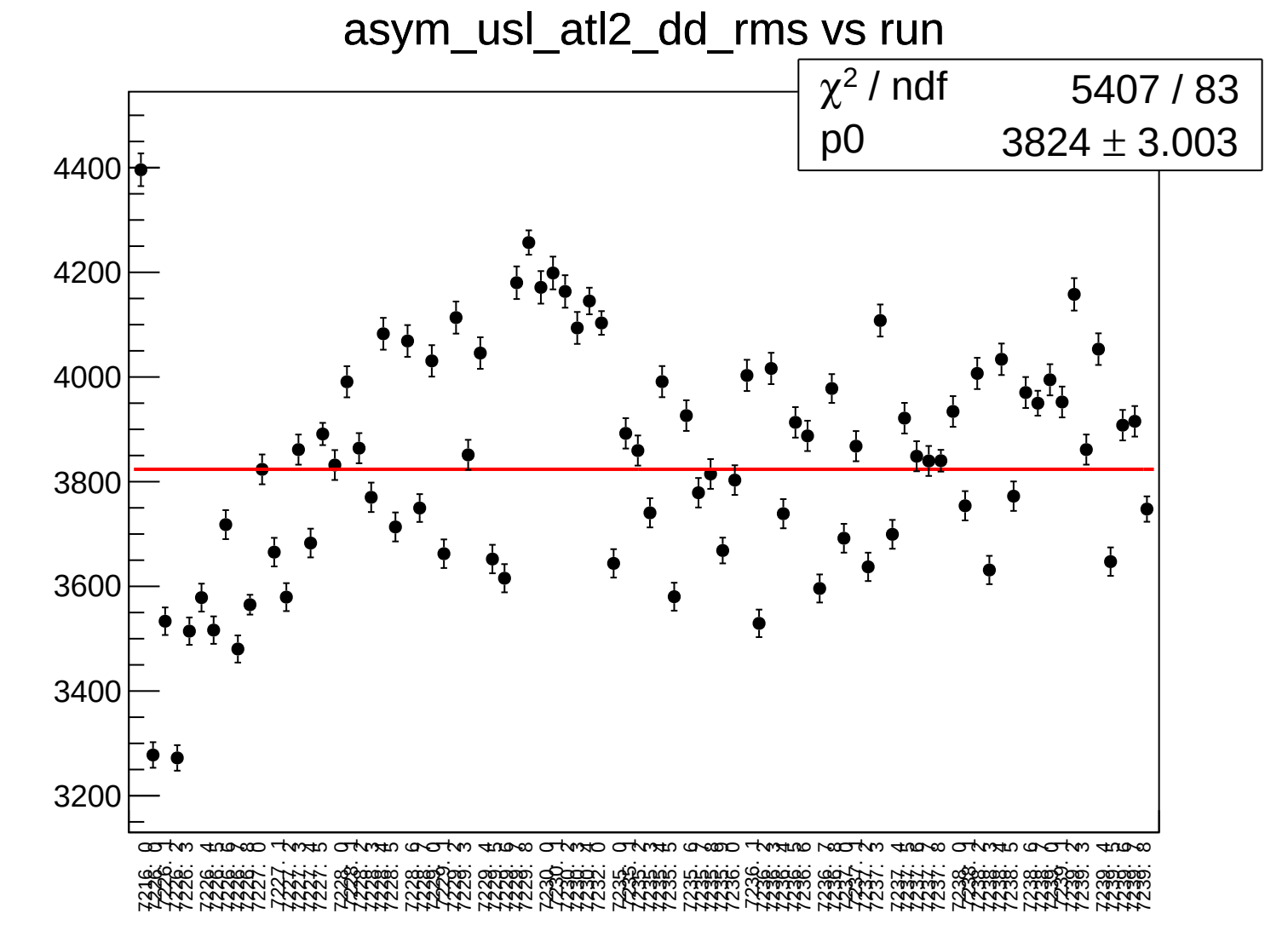

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 99.76 / 83
p0 −3353 ± 3696
pull
Entries 84
Mean −163.4
Std Dev 0

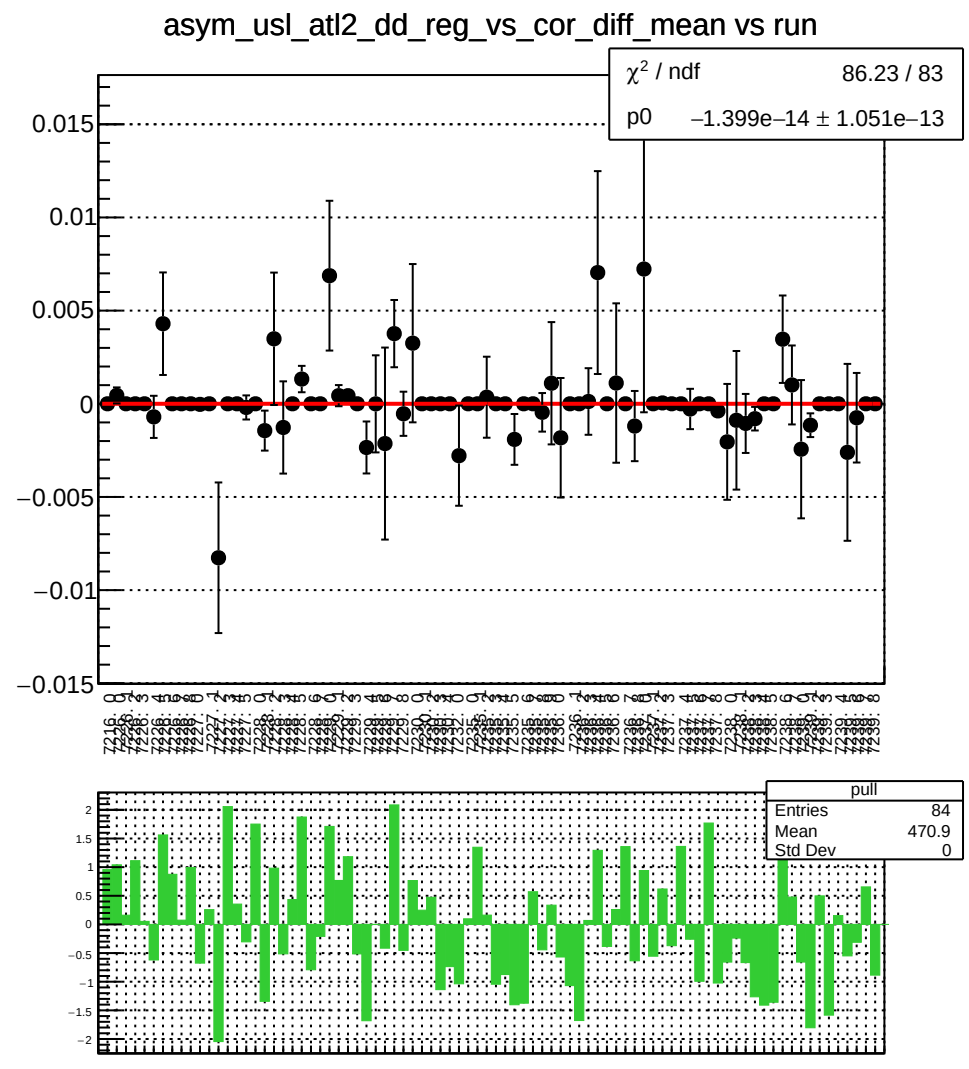

pull1D
Entries 84
Mean 0.007049
Std Dev 1.09

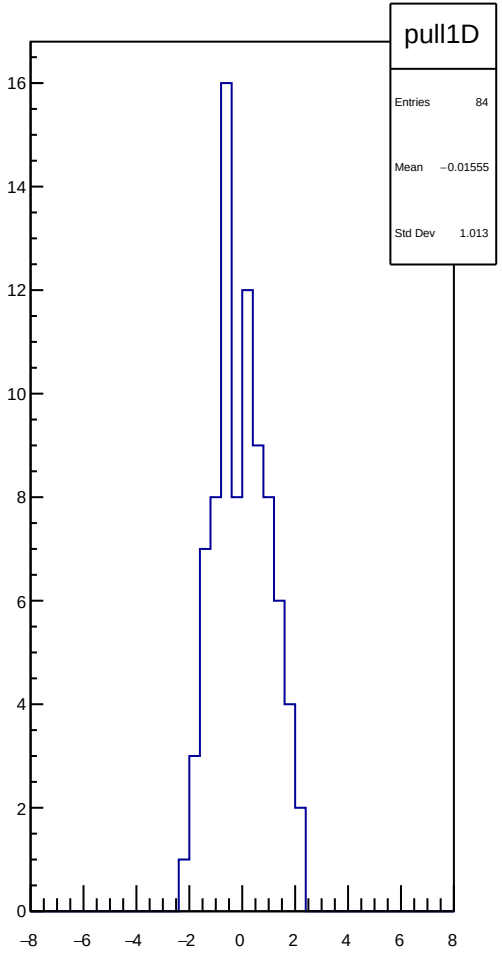

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 6347 / 83
p0 3326 ± 2.613
4000
3800
3600
3400
3200
3000
2800

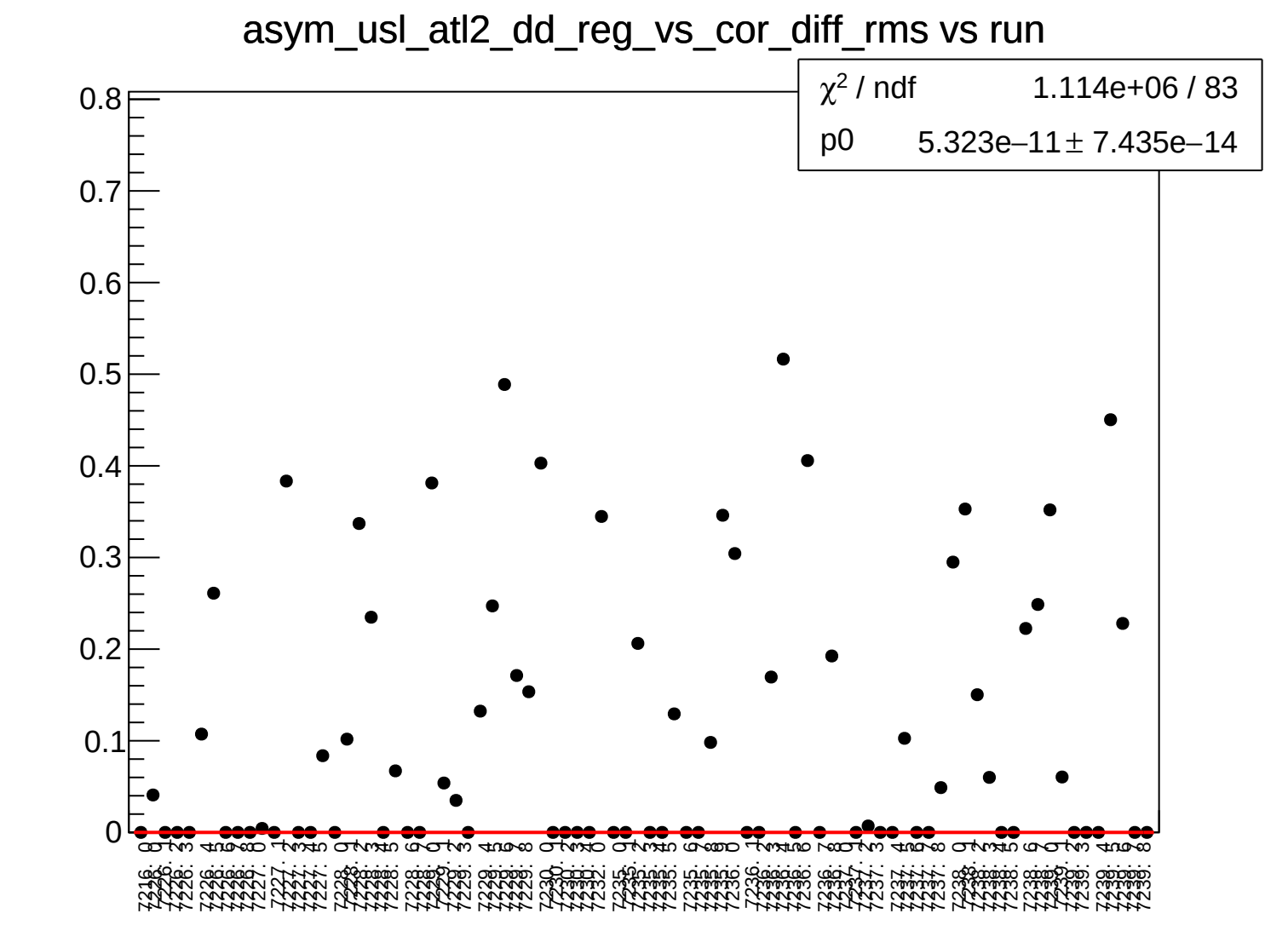

asym_usl_atl2_dd_mean vs run
×10^3
χ² / ndf 114 / 83
p0 2692 ± 4247
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −100.7
Std Dev 0
2
1
0
−1
−2
−3

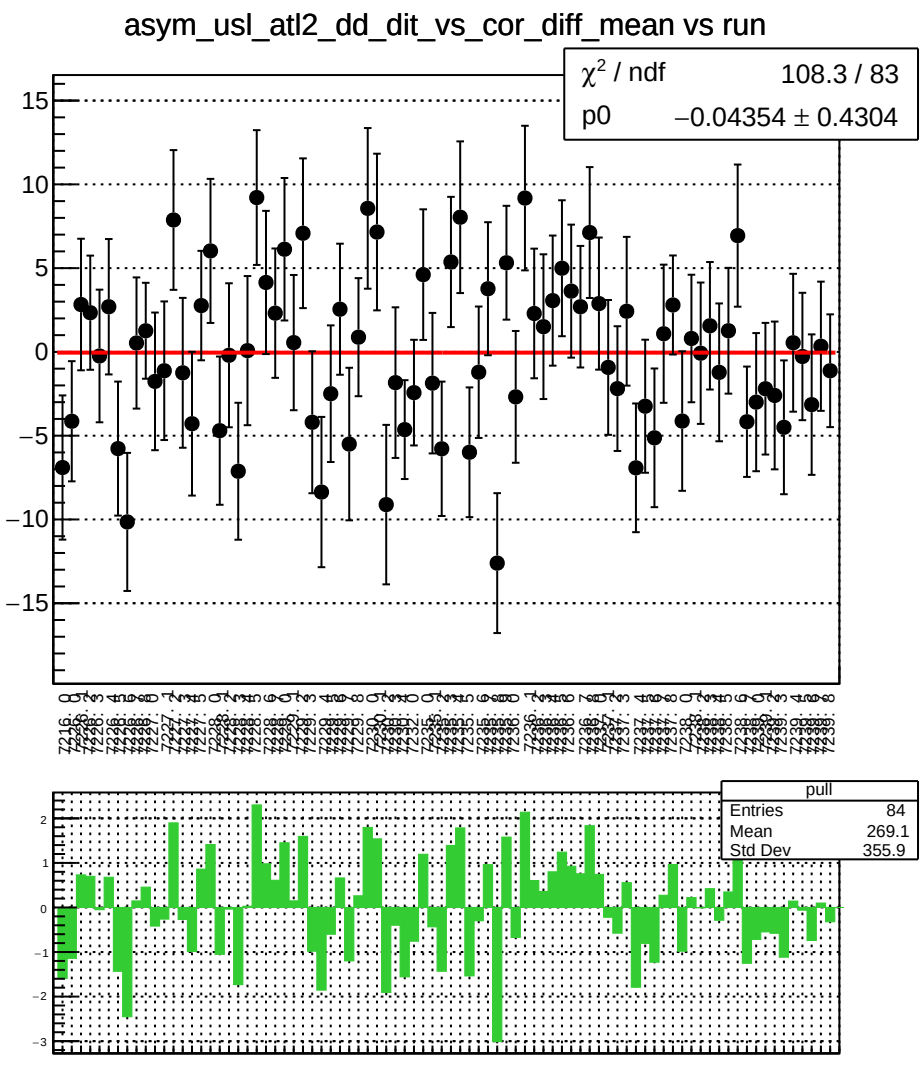

pull1D
Entries 84
Mean −0.006464
Std Dev 1.165
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

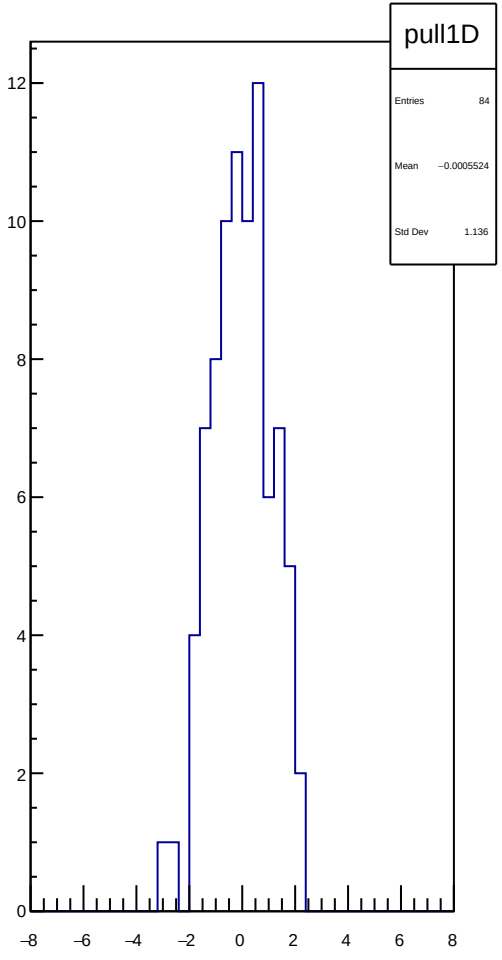

asym_usl_atl2_dd_rms vs run
χ² / ndf 5407 / 83
p0 3824 ± 3.003
4400
4200
4000
3800
3600
3400
3200

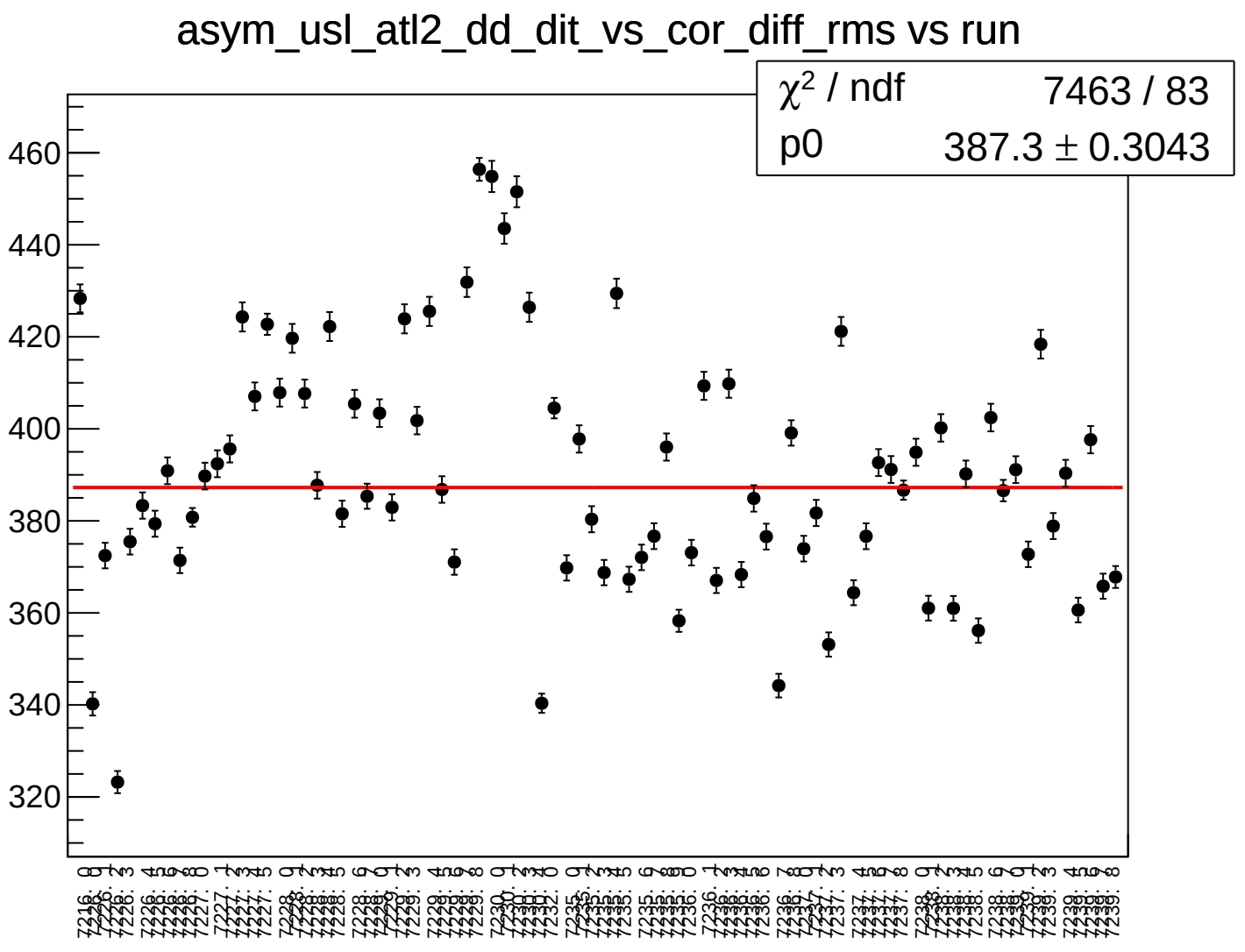

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 86.23 / 83
p0 −1.399e−14 ± 1.051e−13
pull
Entries 84
Mean 470.9
Std Dev 0

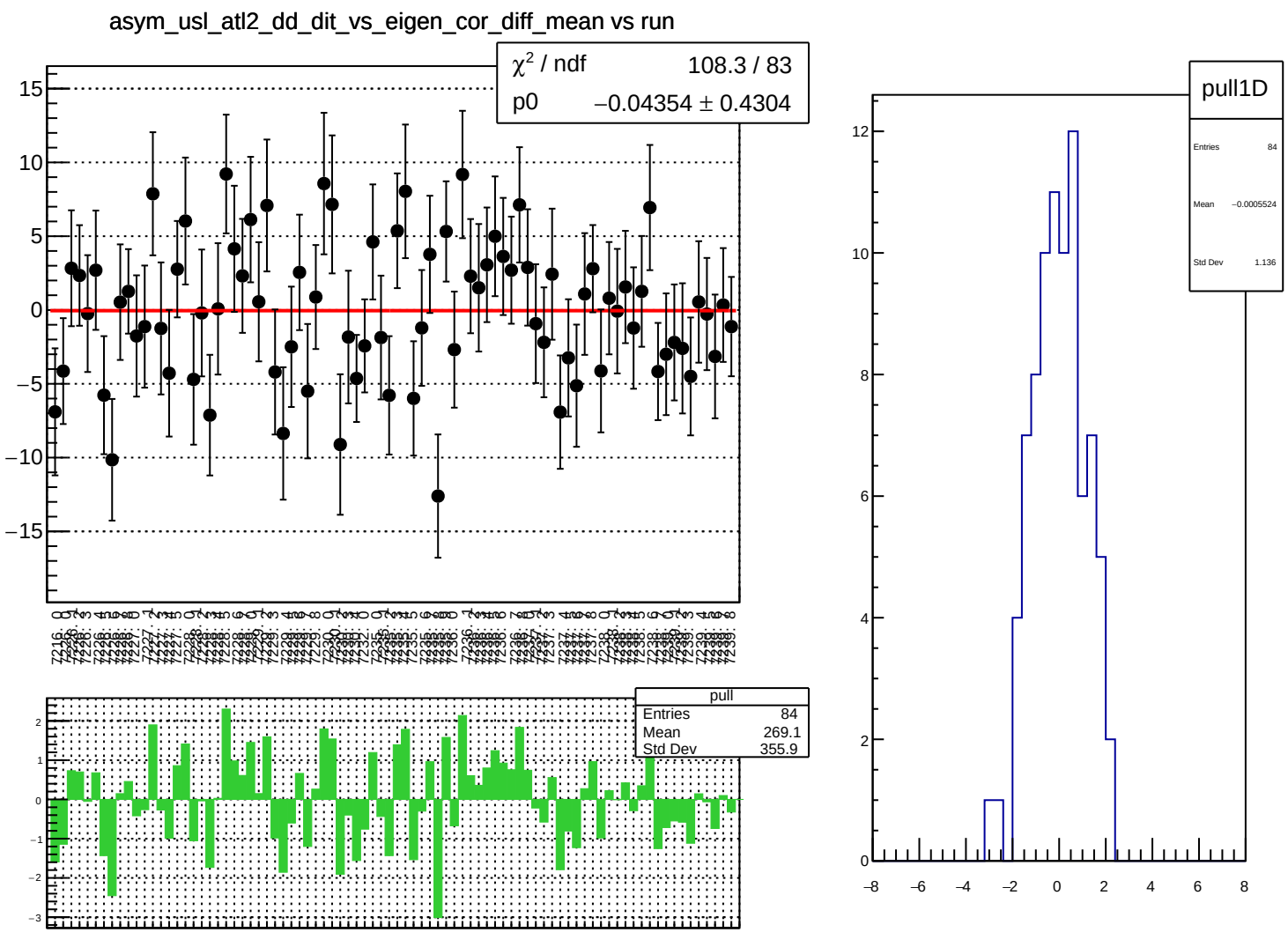

pull1D
Entries 84
Mean −0.01555
Std Dev 1.013

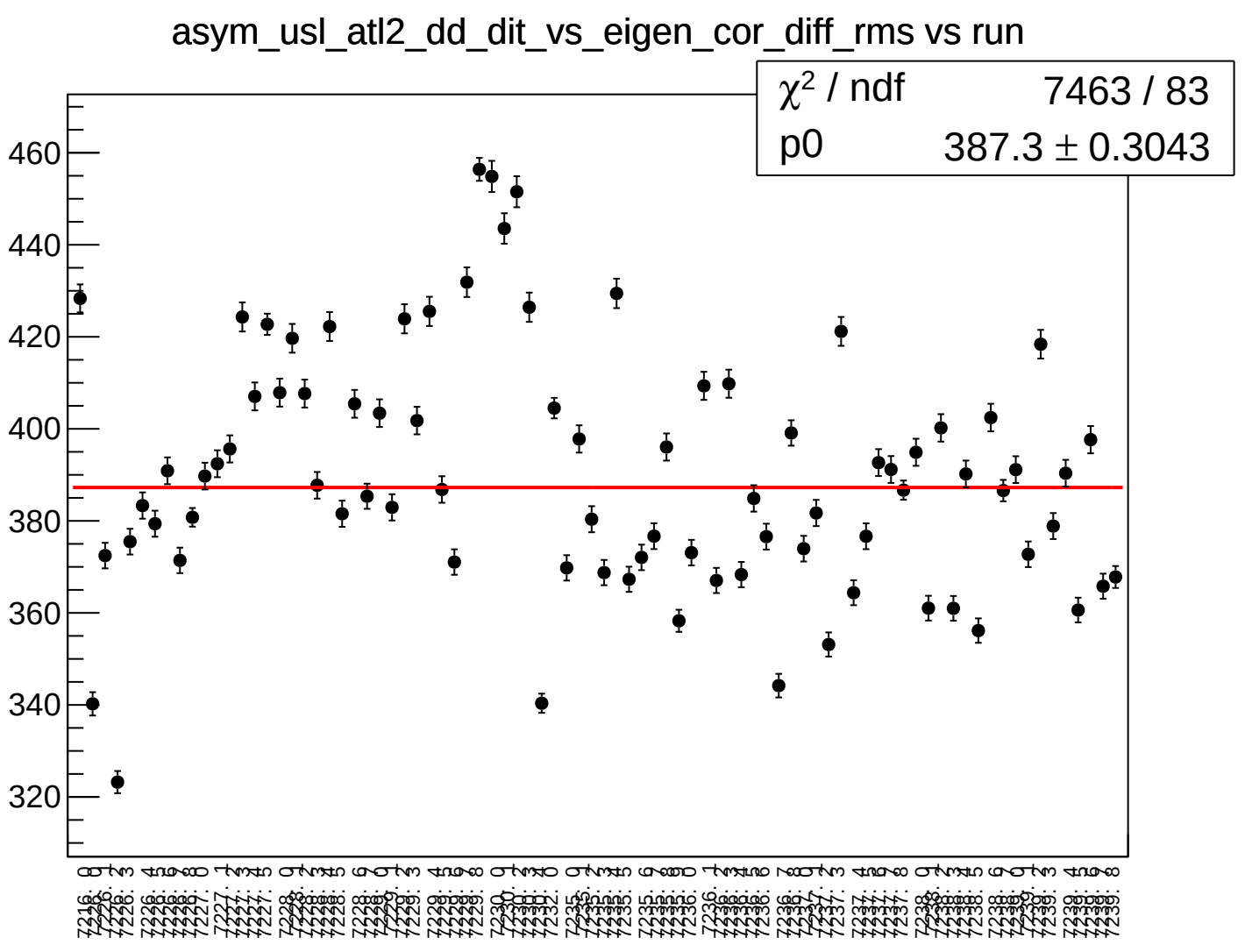

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.114e+06 / 83
p0 5.323e−11 ± 7.435e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

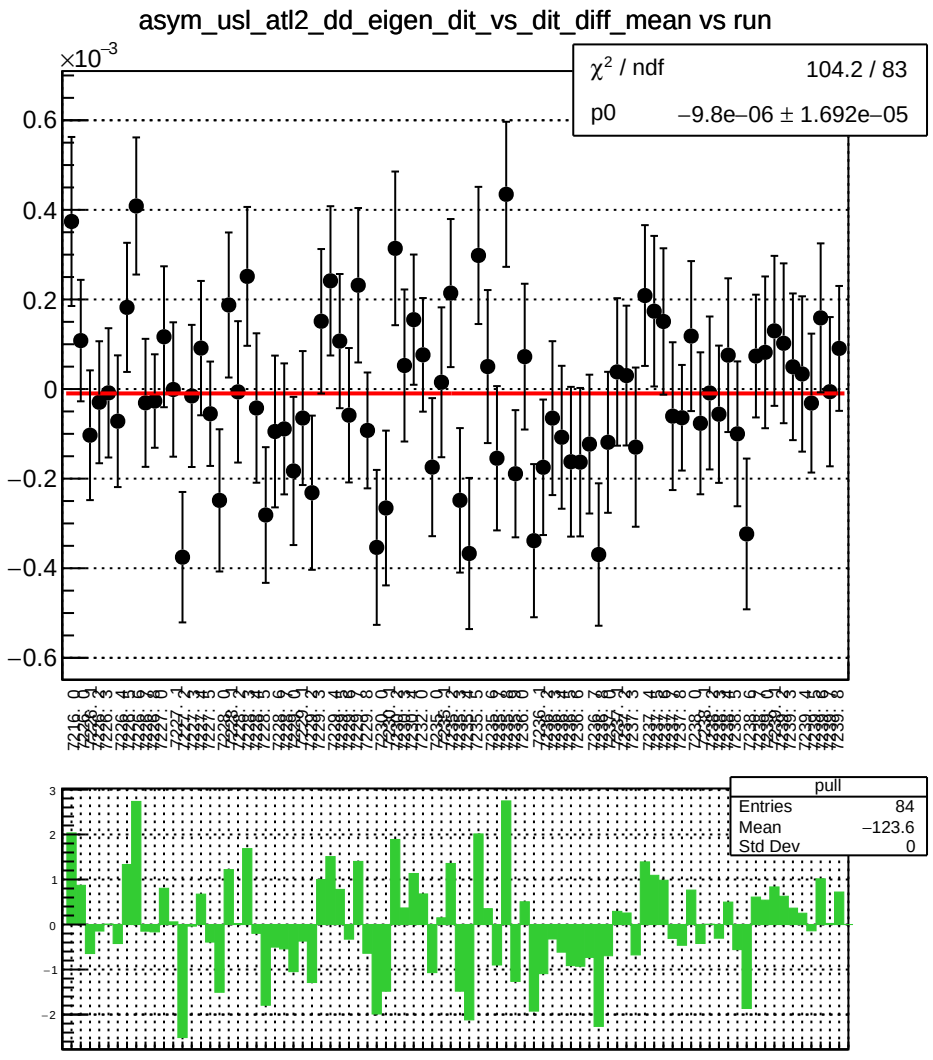

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 108.3 / 83
p0 −0.04354 ± 0.4304
pull
Entries 84
Mean 269.1
Std Dev 355.9

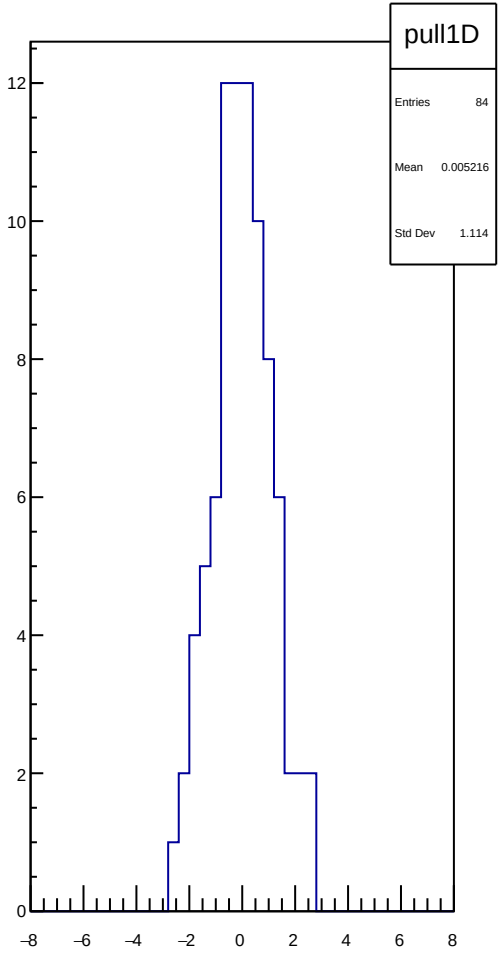

pull1D
Entries 84
Mean −0.0005524
Std Dev 1.136

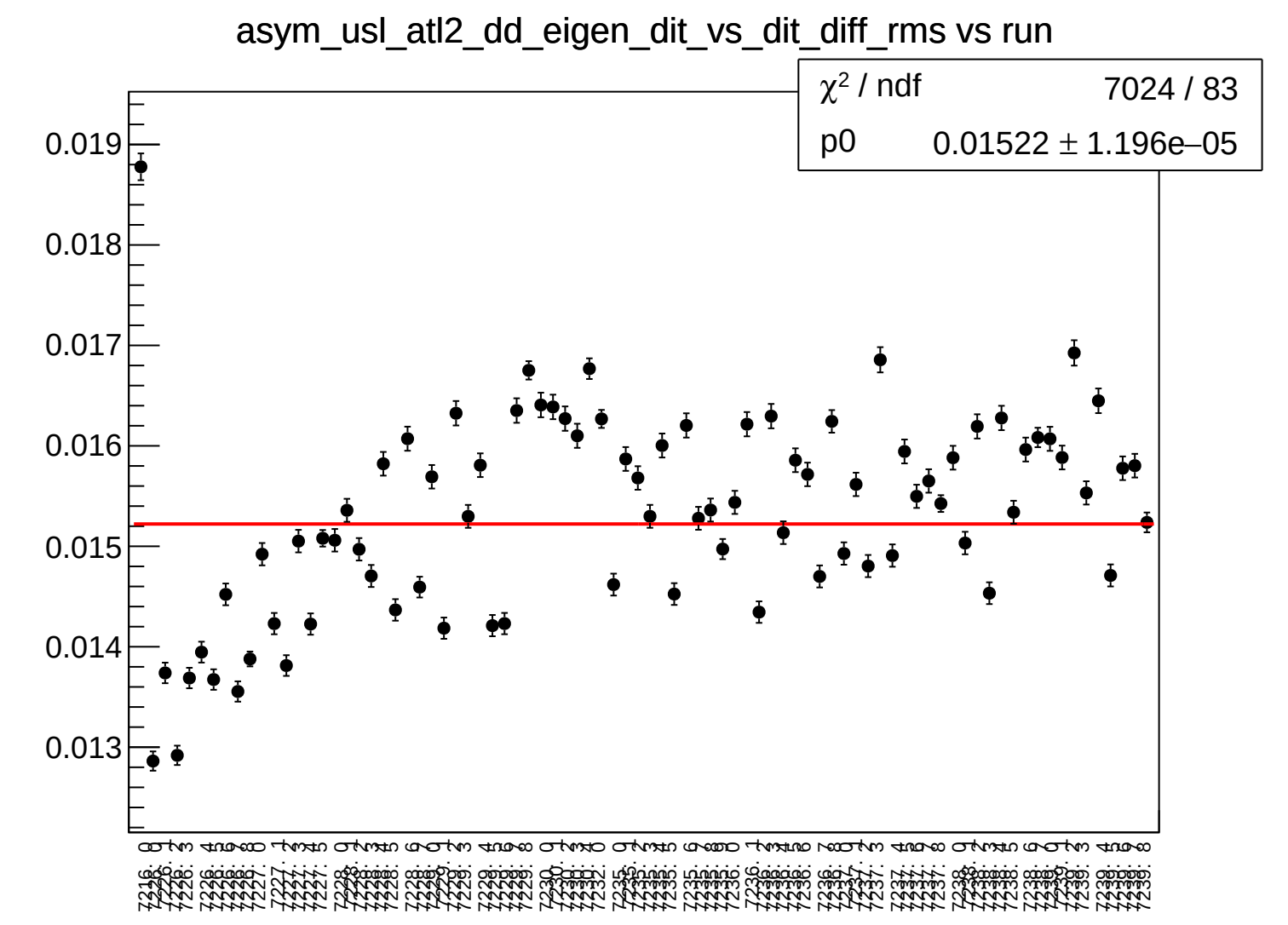

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7463 / 83
p0 387.3 ± 0.3043
460
440
420
400
380
360
340
320

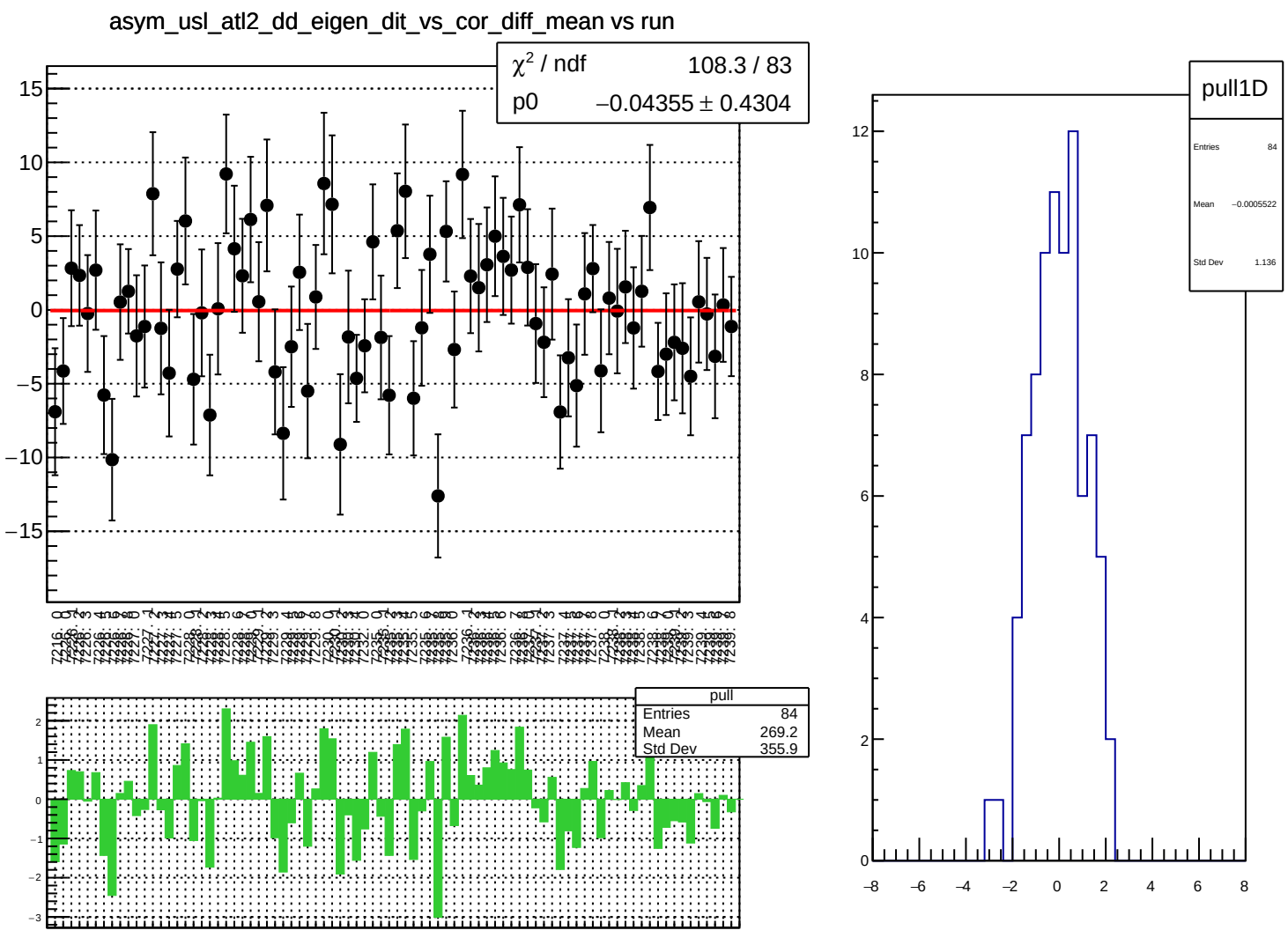

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.3 / 83
p0 −0.04354 ± 0.4304
pull
Entries 84
Mean 269.1
Std Dev 355.9
pull1D
Entries 84
Mean −0.0005524
Std Dev 1.136

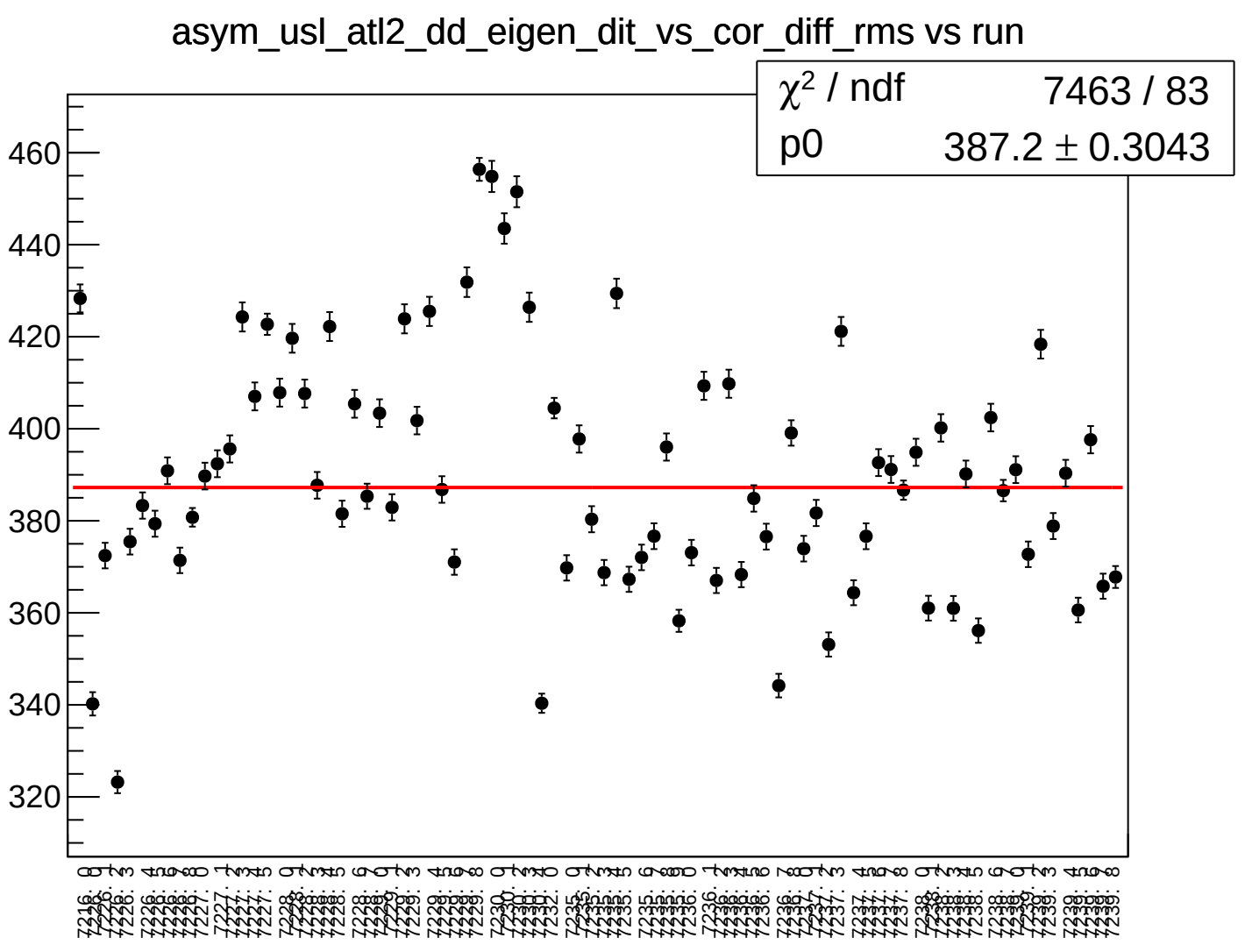

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7463 / 83
p0 387.3 ± 0.3043
460
440
420
400
380
360
340
320

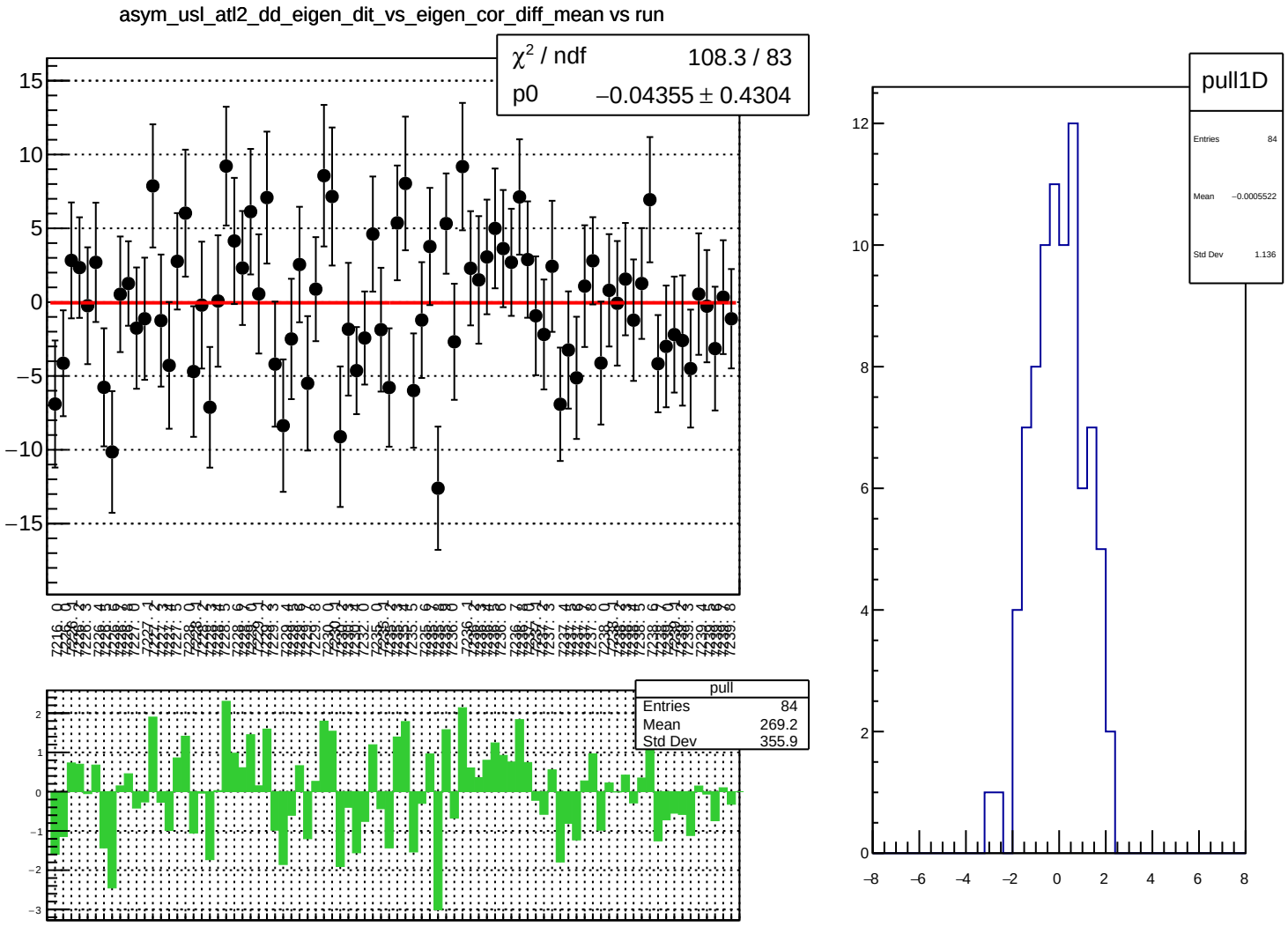

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 104.2 / 83
p0 −9.8e−06 ± 1.692e−05
pull
Entries 84
Mean −123.6
Std Dev 0

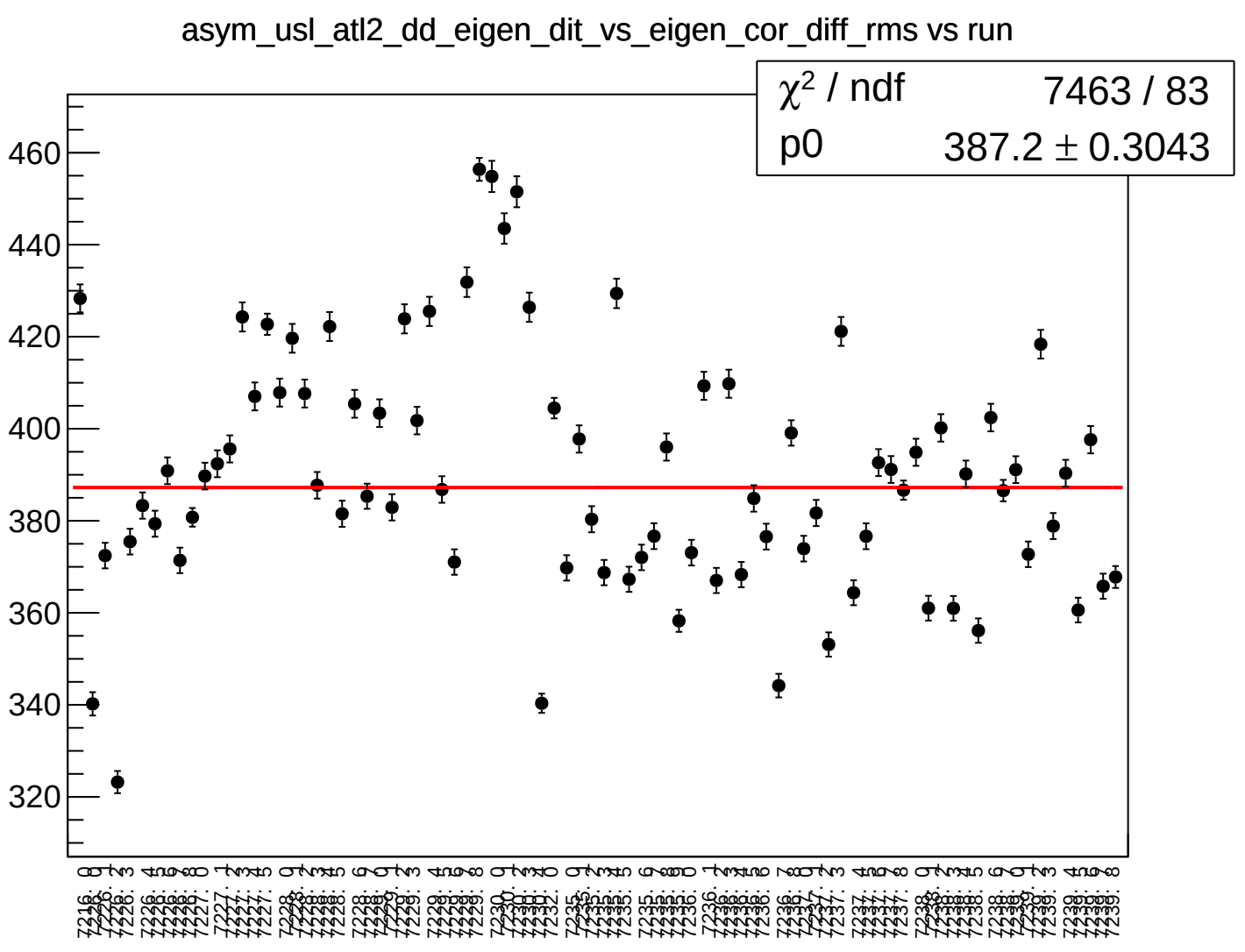

pull1D
Entries 84
Mean 0.005216
Std Dev 1.114

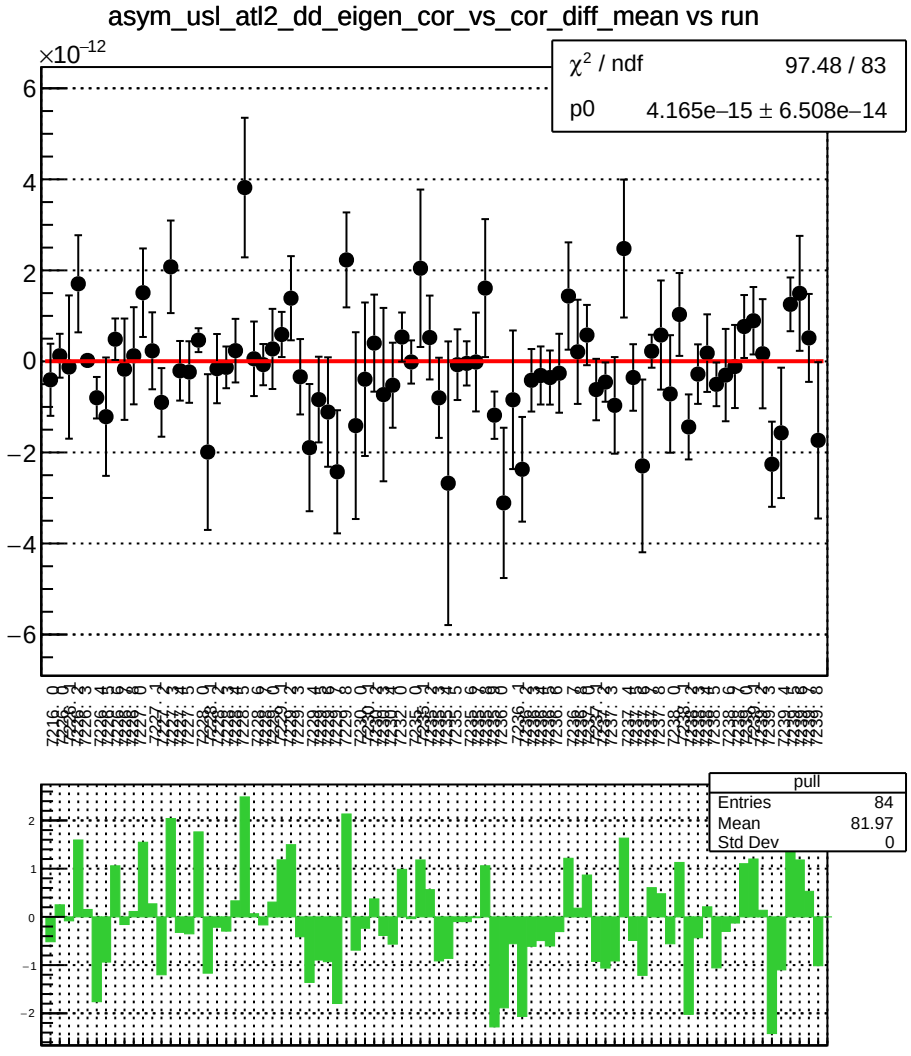

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7024 / 83
p0 0.01522 ± 1.196e−05
0.019
0.018
0.017
0.016
0.015
0.014
0.013

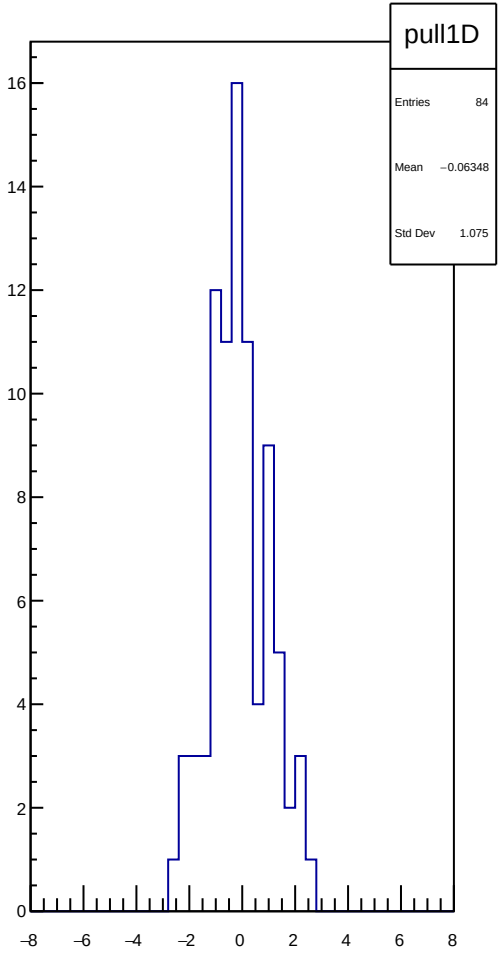

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 108.3 / 83
p0 −0.04355 ± 0.4304
pull
Entries 84
Mean 269.2
Std Dev 355.9
pull1D
Entries 84
Mean −0.0005522
Std Dev 1.136

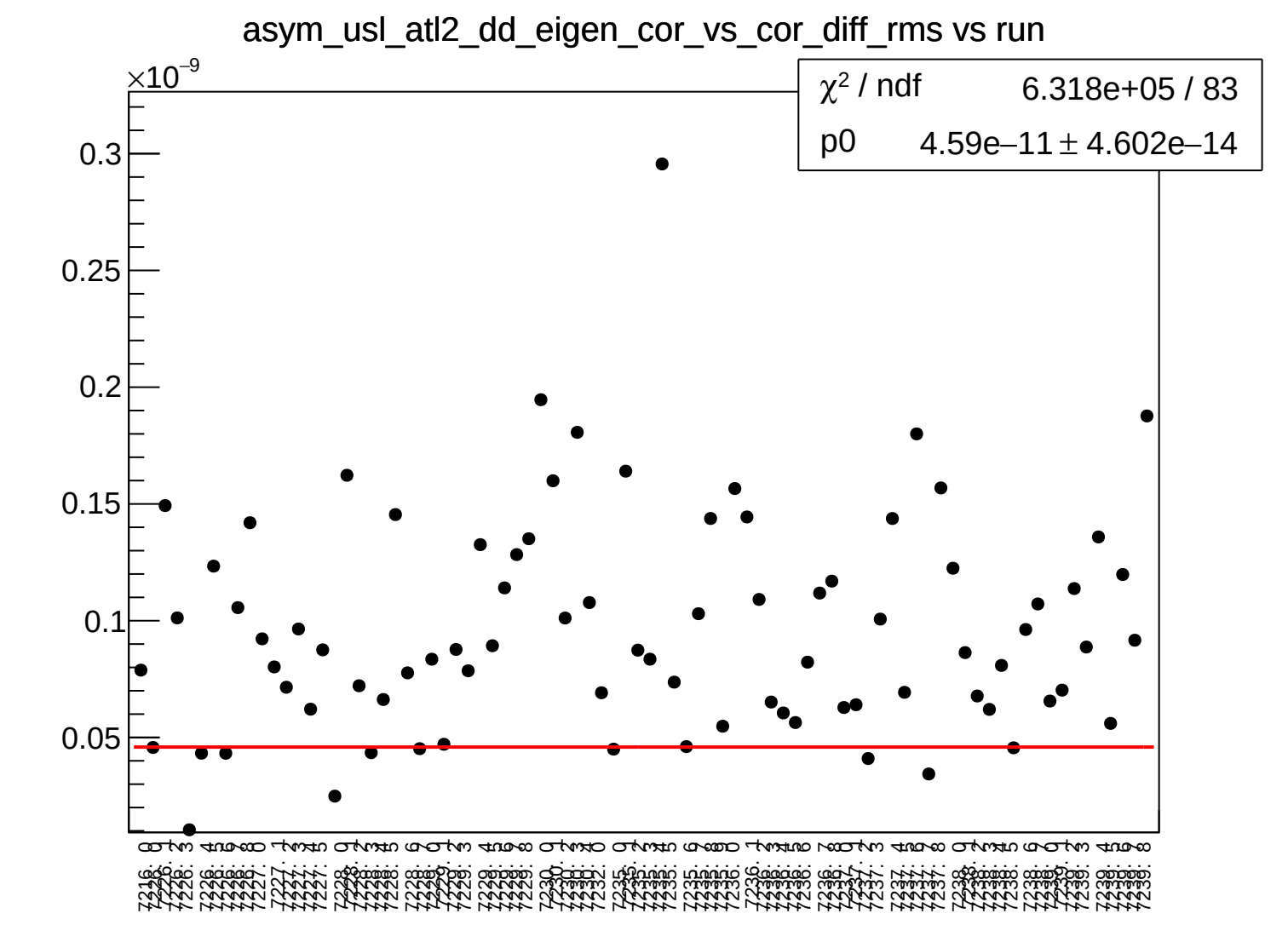

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7463 / 83
p0 387.2 ± 0.3043
460
440
420
400
380
360
340
320

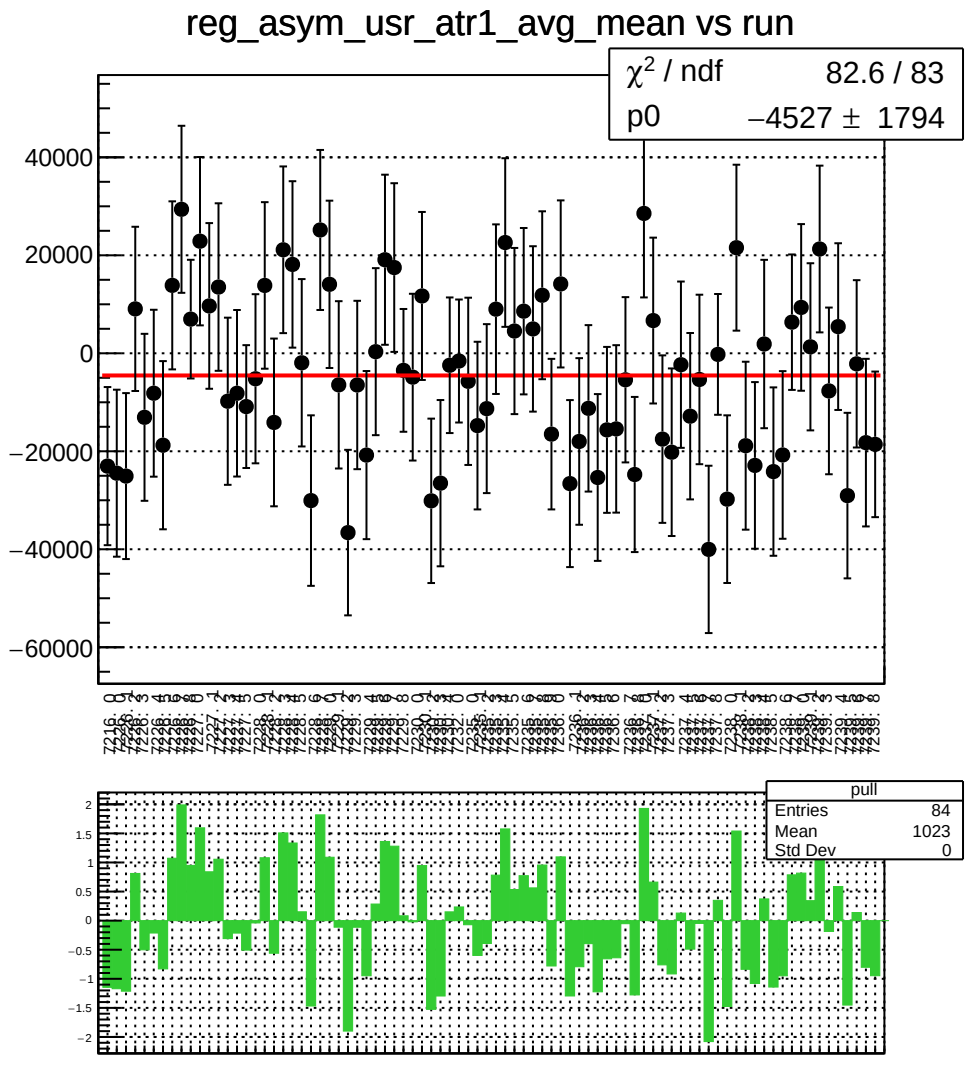

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.3 / 83
p0 −0.04355 ± 0.4304
pull
Entries 84
Mean 269.2
Std Dev 355.9
pull1D
Entries 84
Mean −0.0005522
Std Dev 1.136

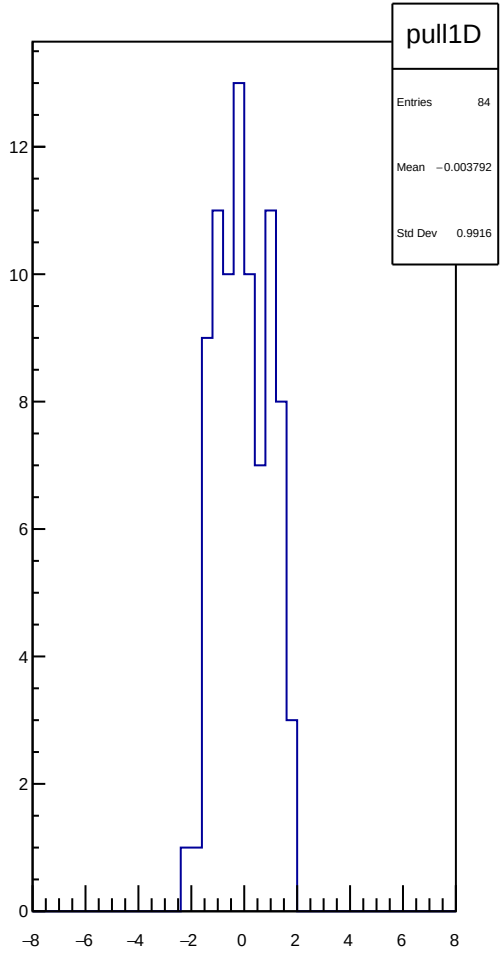

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7463 / 83
p0 387.2 ± 0.3043
460
440
420
400
380
360
340
320

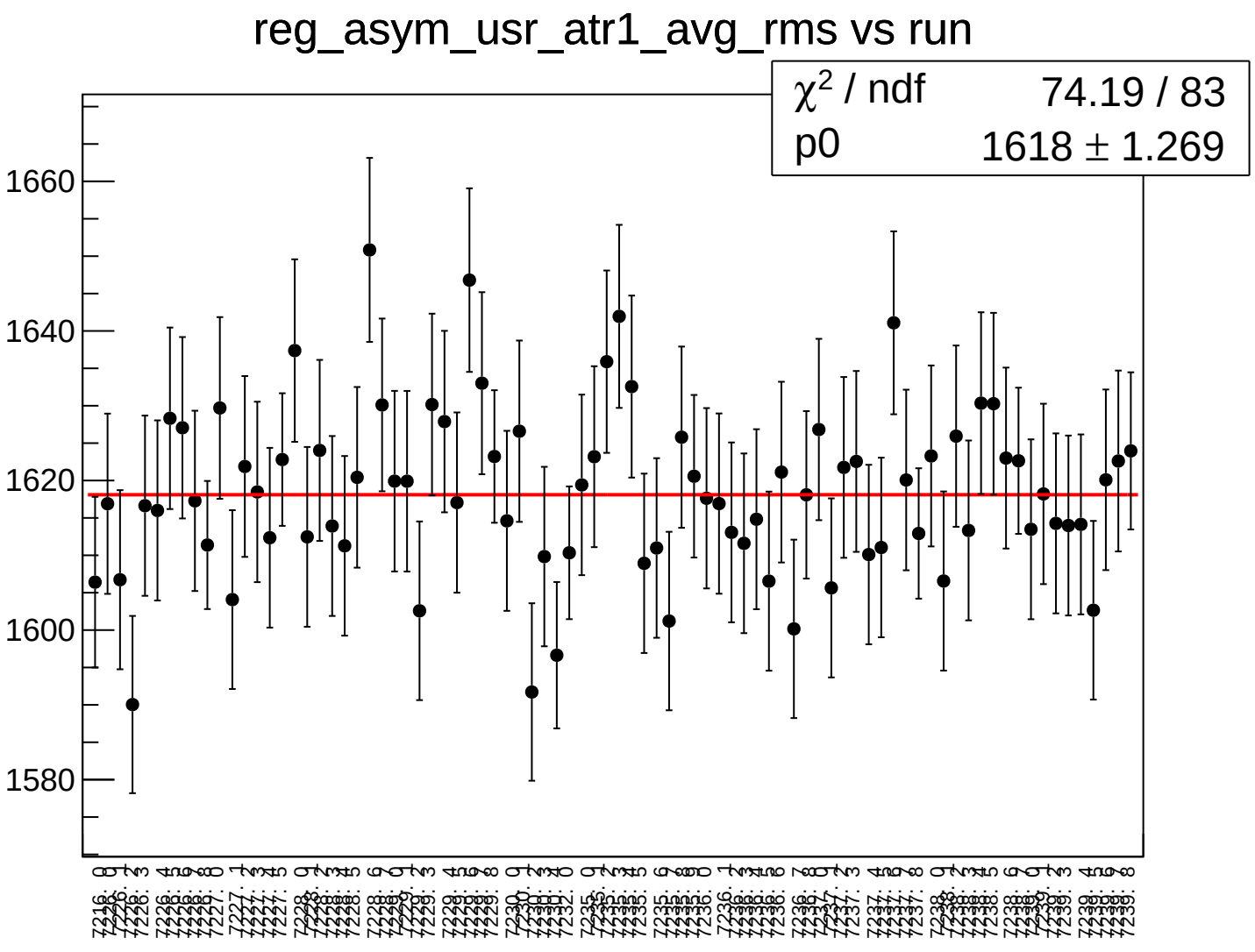

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.48 / 83
p0 4.165e−15 ± 6.508e−14
pull
Entries 84
Mean 81.97
Std Dev 0

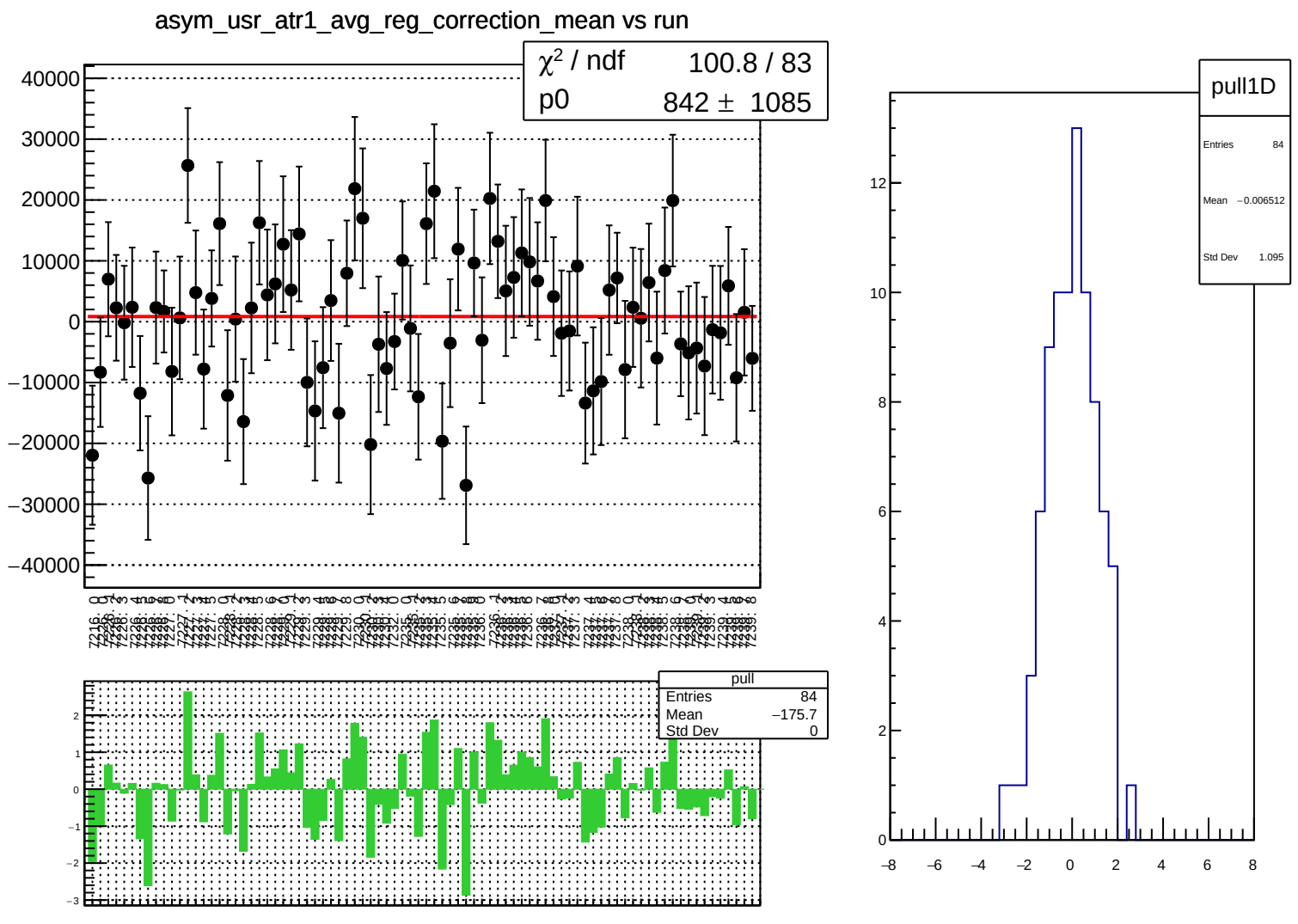

pull1D
Entries 84
Mean −0.06348
Std Dev 1.075

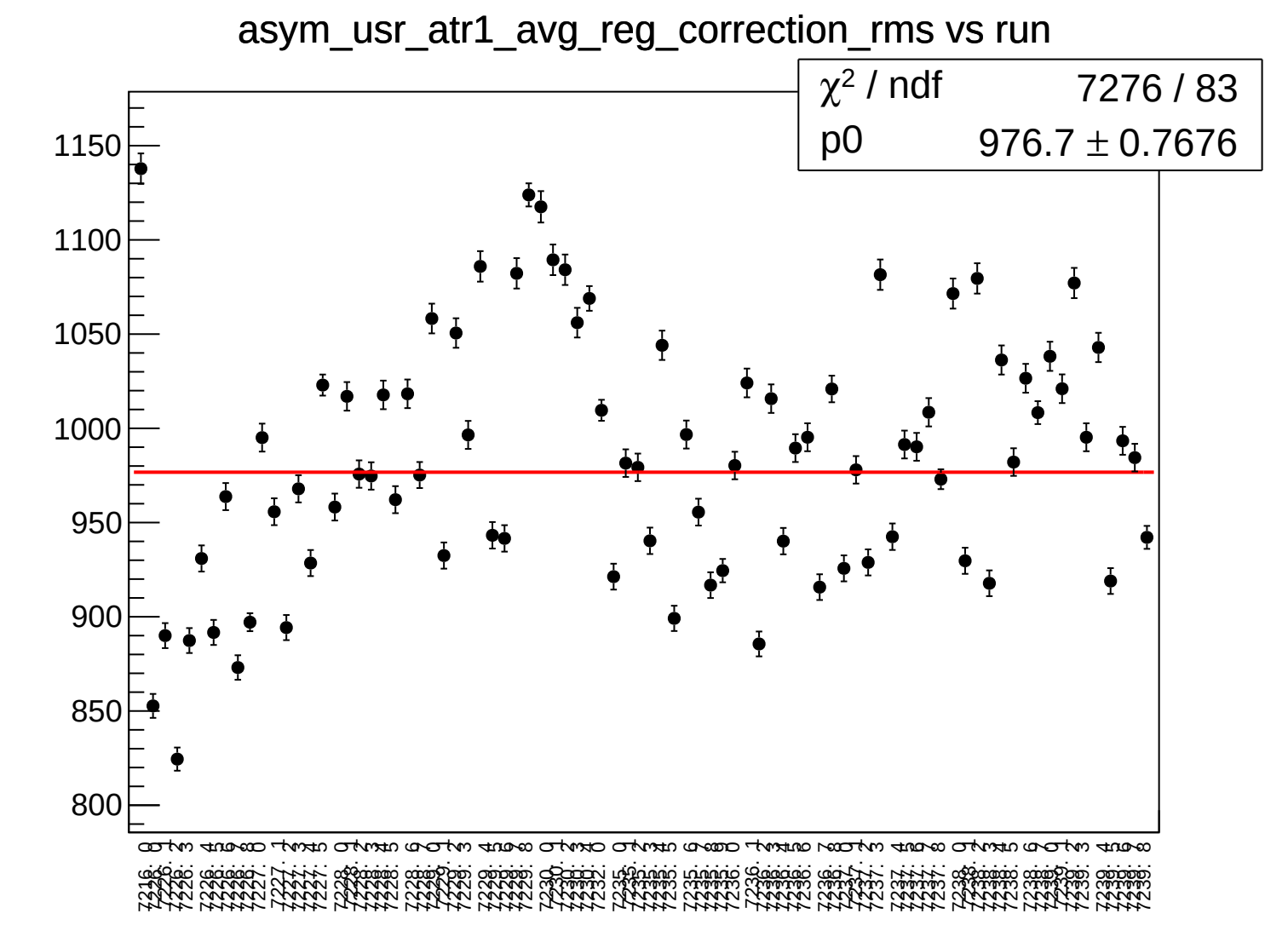

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.318e+05 / 83
p0 4.59e−11 ± 4.602e−14
0.3
0.25
0.2
0.15
0.1
0.05

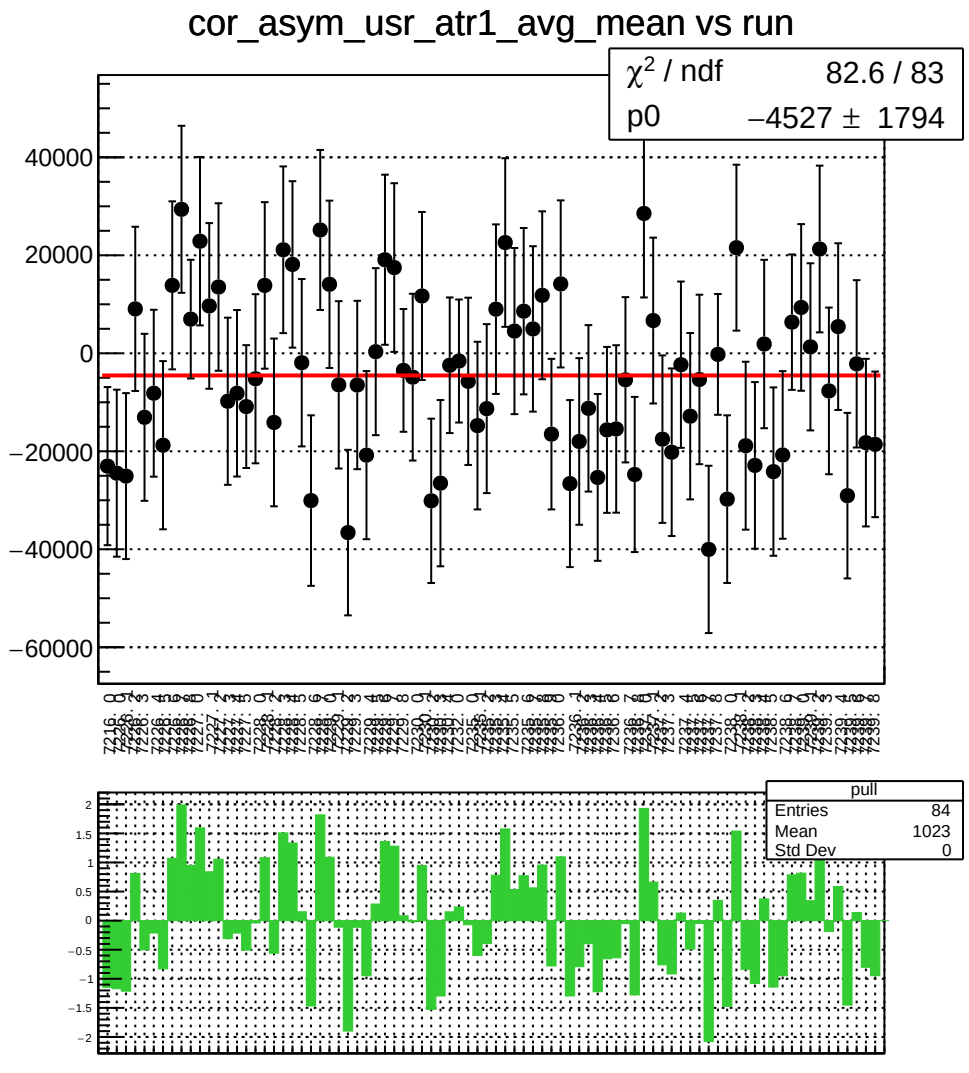

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 82.6 / 83
p0 −4527 ± 1794
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 1023
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

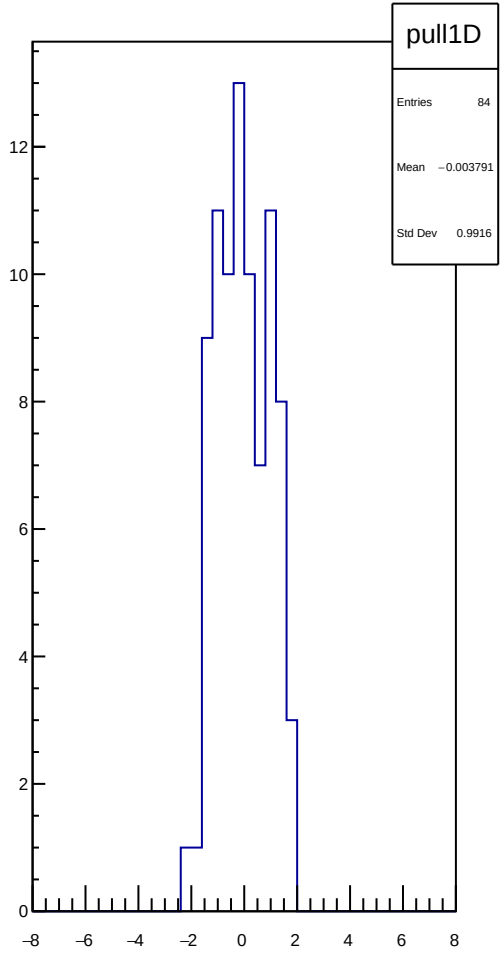

pull1D
Entries 84
Mean −0.003792
Std Dev 0.9916
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

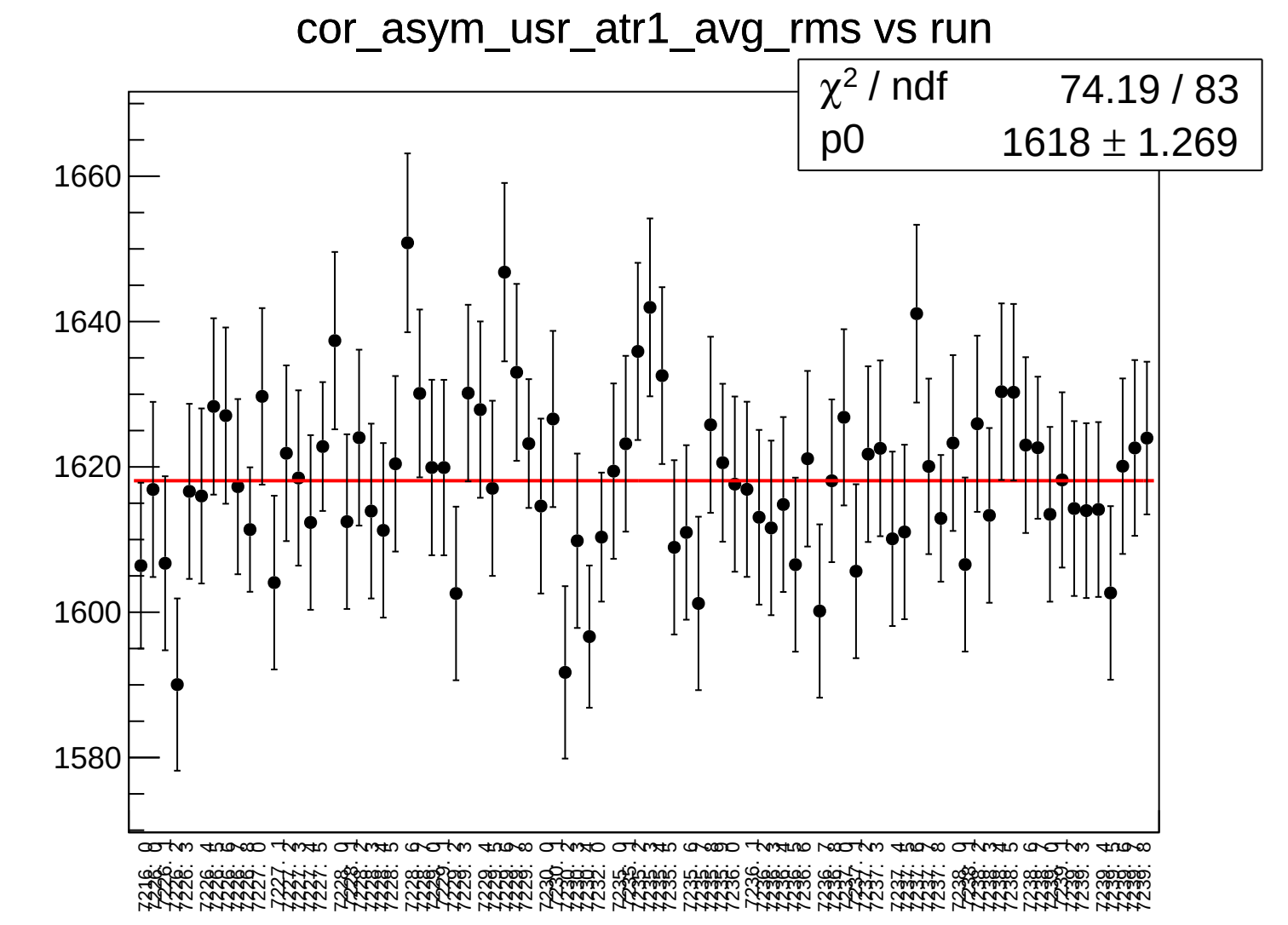

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 74.19 / 83
p0 1618 ± 1.269
1660
1640
1620
1600
1580

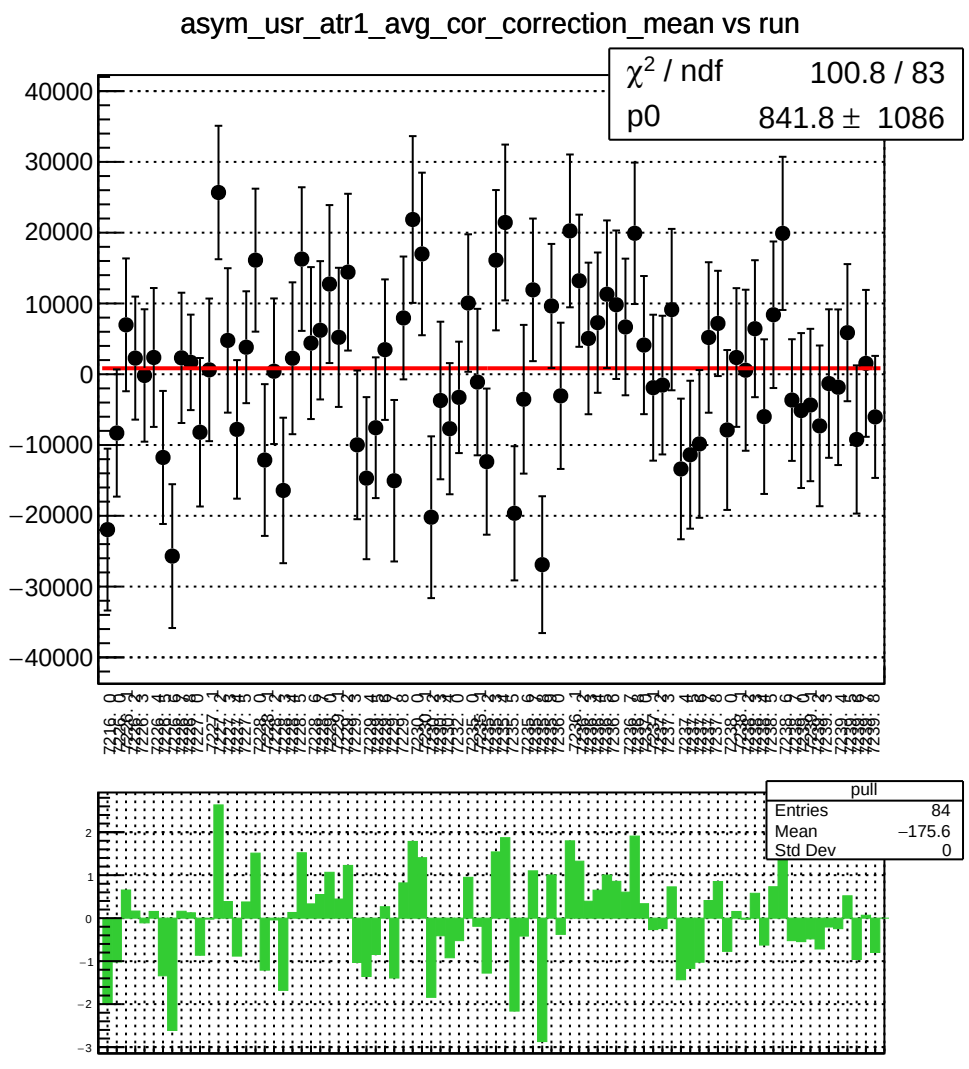

asym_usr_atr1_avg_reg_correction_mean vs run
χ² / ndf 100.8 / 83
p0 842 ± 1085
pull
Entries 84
Mean −175.7
Std Dev 0
pull1D
Entries 84
Mean −0.006512
Std Dev 1.095

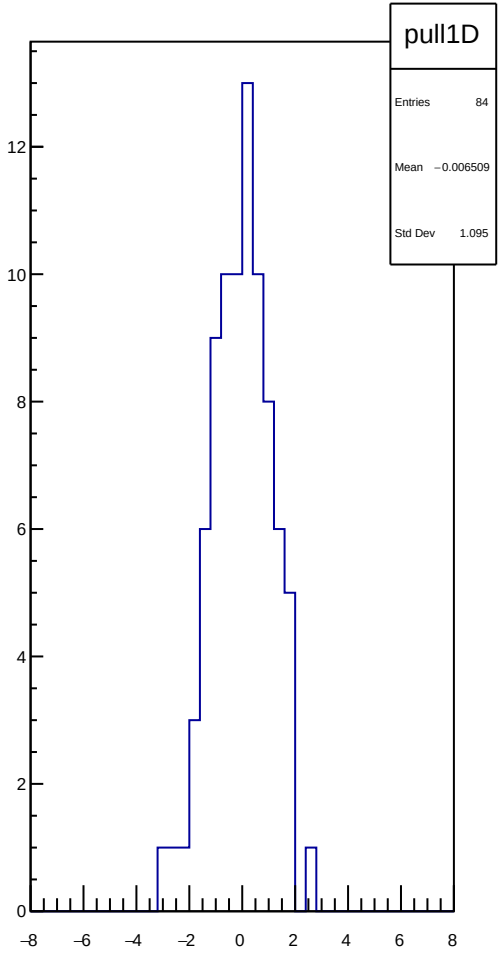

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 7276 / 83
p0 976.7 ± 0.7676
1150
1100
1050
1000
950
900
850
800

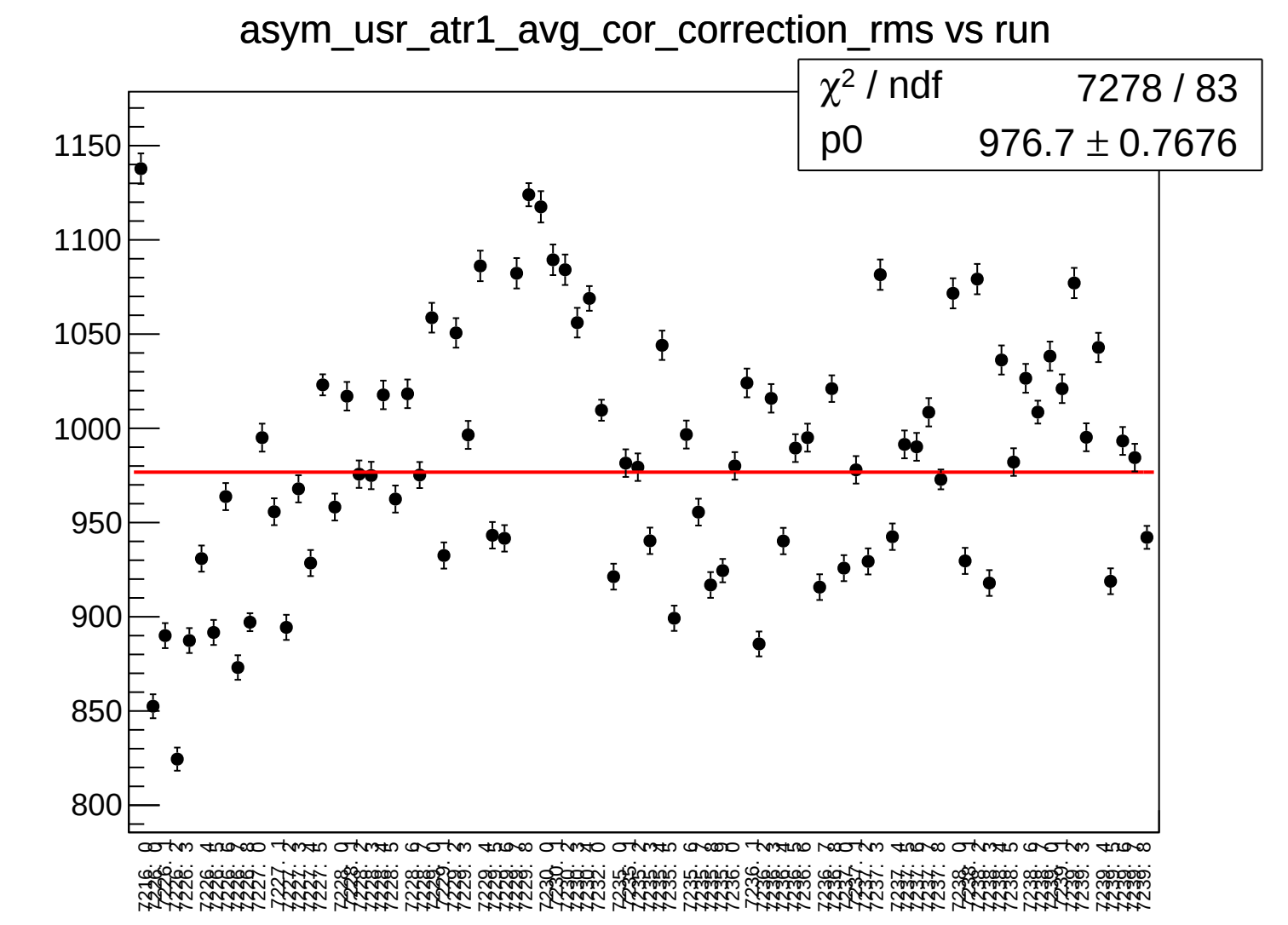

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 82.6 / 83
p0 −4527 ± 1794
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 1023
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

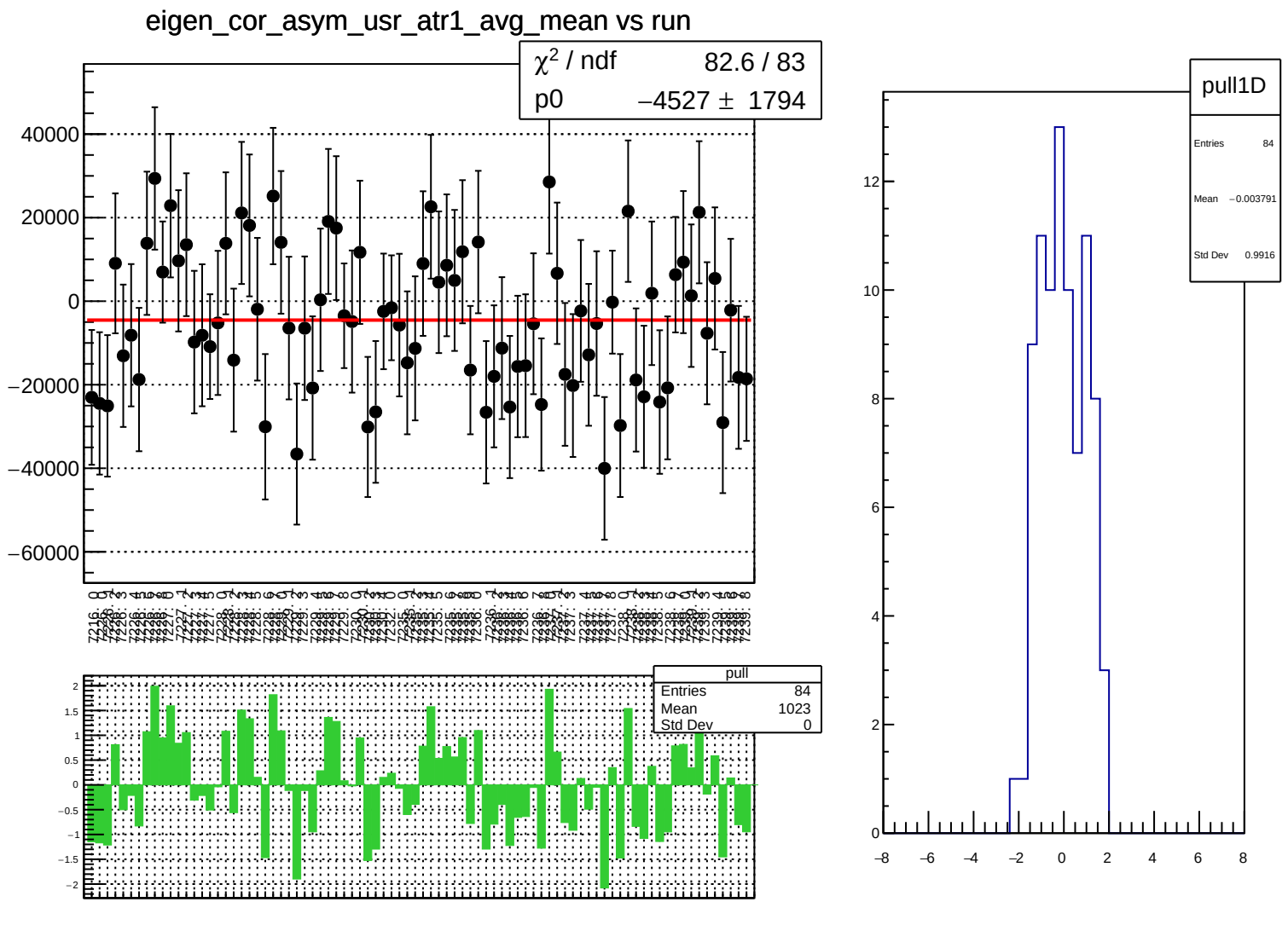

pull1D
Entries 84
Mean −0.003791
Std Dev 0.9916
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

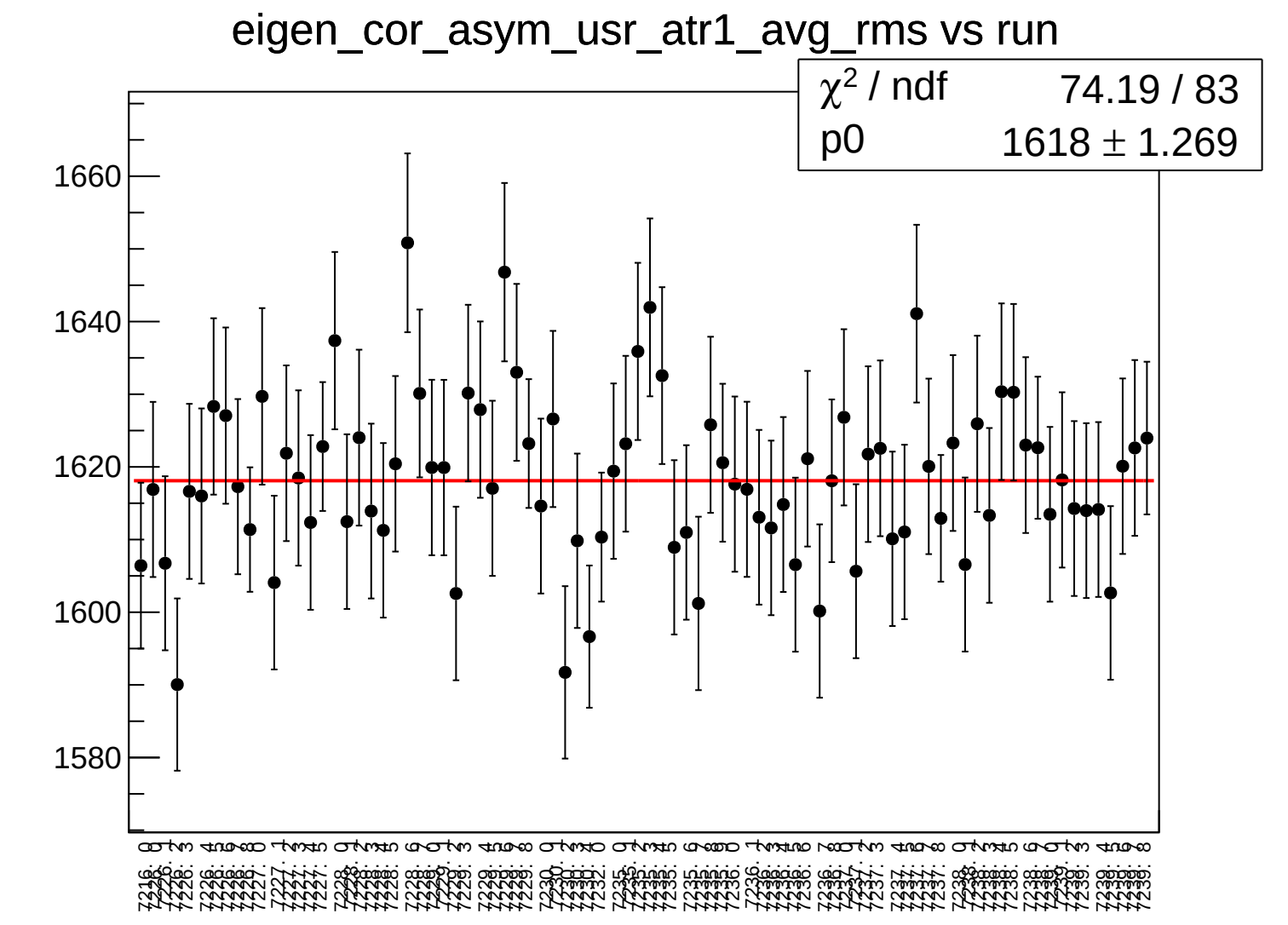

cor_asym_usr_atr1_avg_rms vs run
χ^2 / ndf 74.19 / 83
p0 1618 ± 1.269
1660
1640
1620
1600
1580

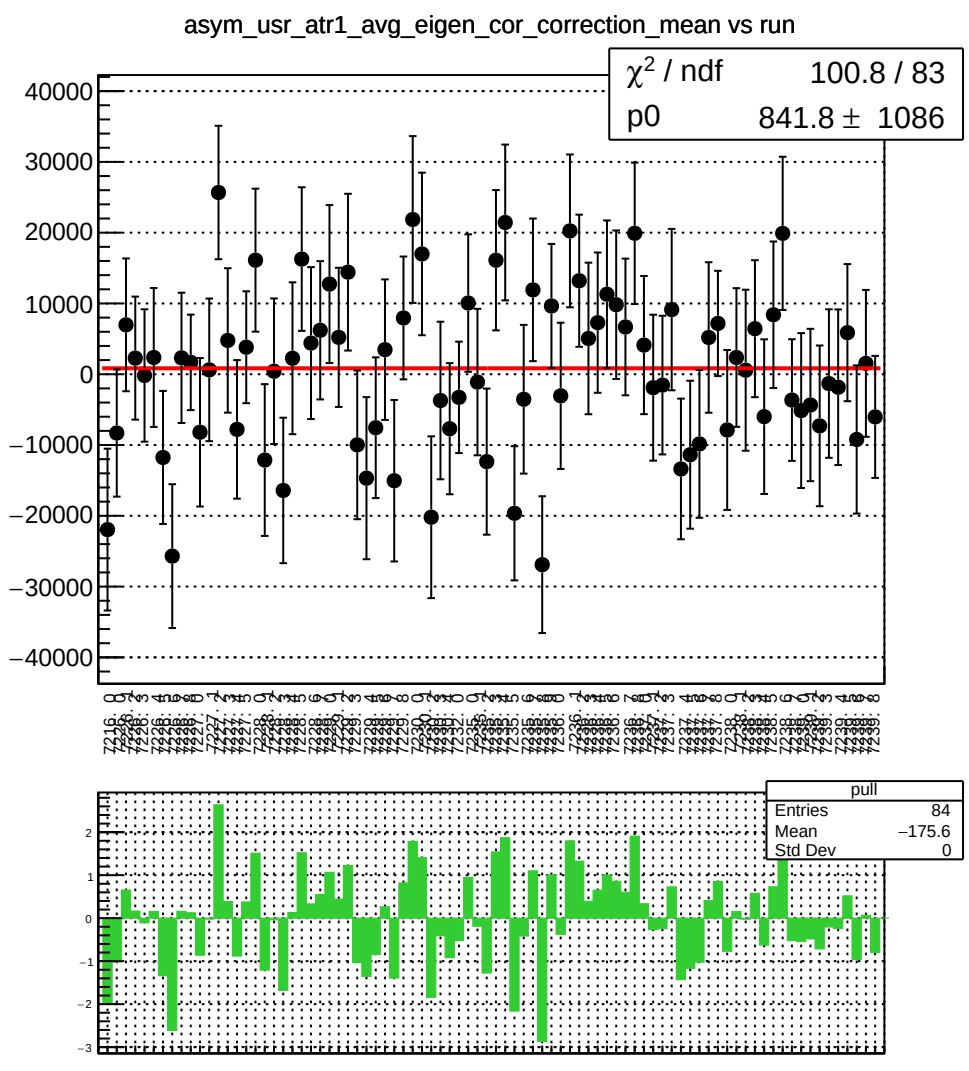

asym_usr_atr1_avg_cor_correction_mean vs run
χ² / ndf 100.8 / 83
p0 841.8 ± 1086
pull
Entries 84
Mean −175.6
Std Dev 0

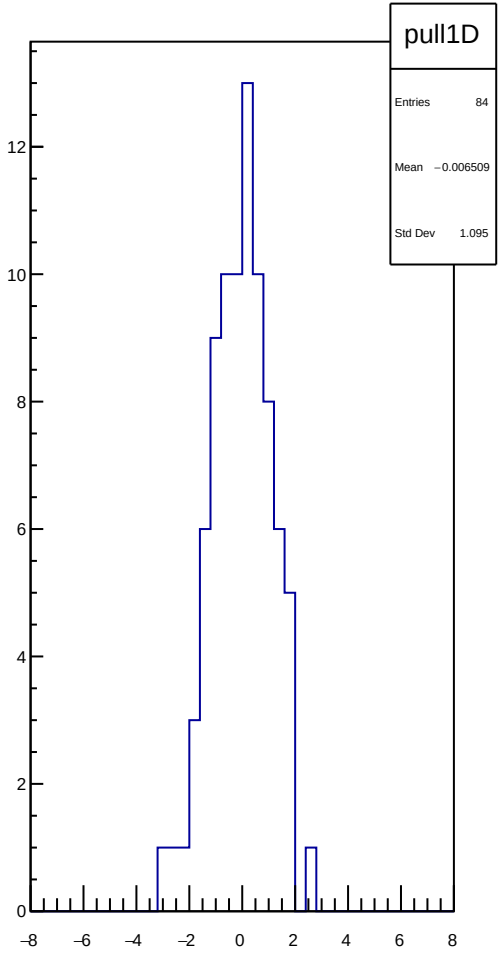

pull1D
Entries 84
Mean −0.006509
Std Dev 1.095

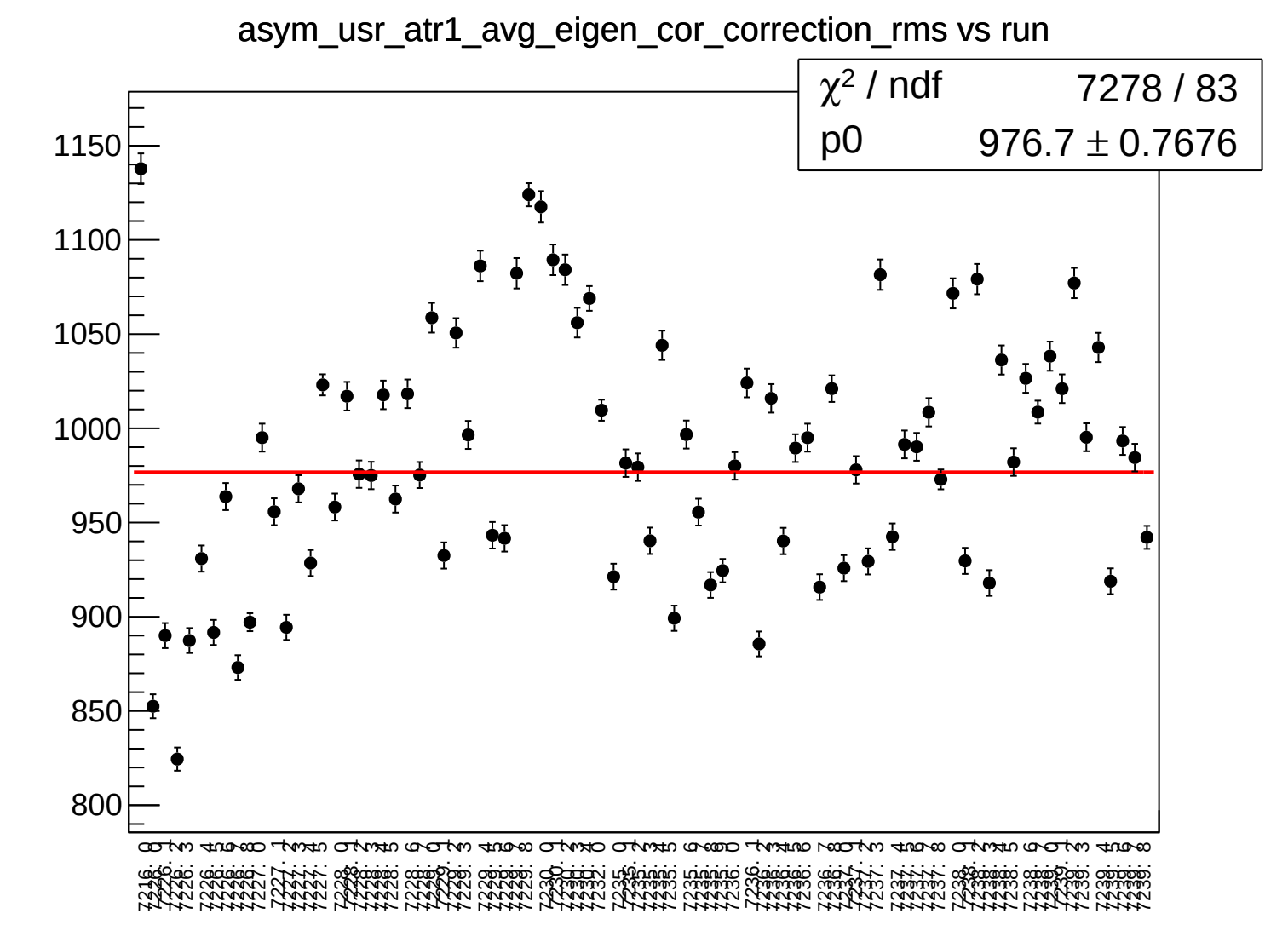

asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 7278 / 83
p0 976.7 ± 0.7676
1150
1100
1050
1000
950
900
850
800

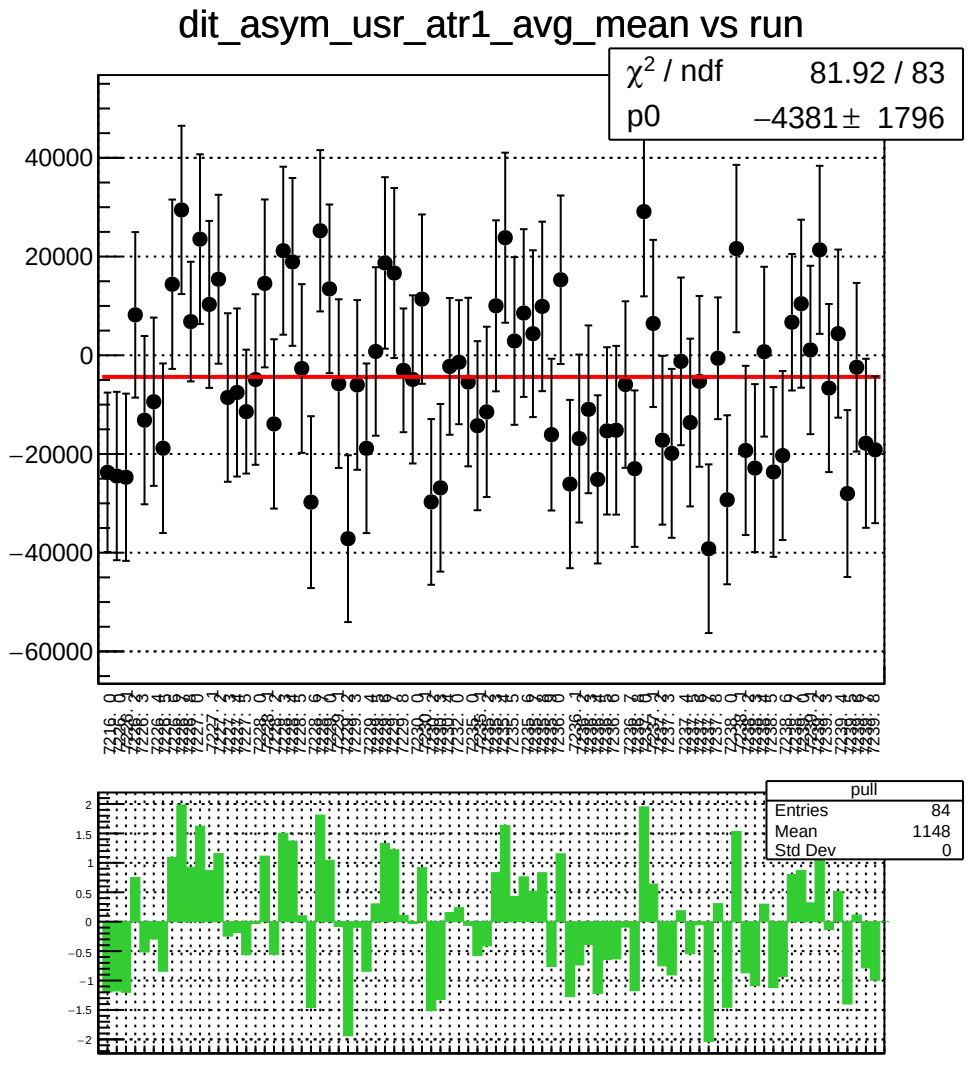

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 82.6 / 83
p0 −4527 ± 1794
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 1023
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 84
Mean −0.003791
Std Dev 0.9916
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

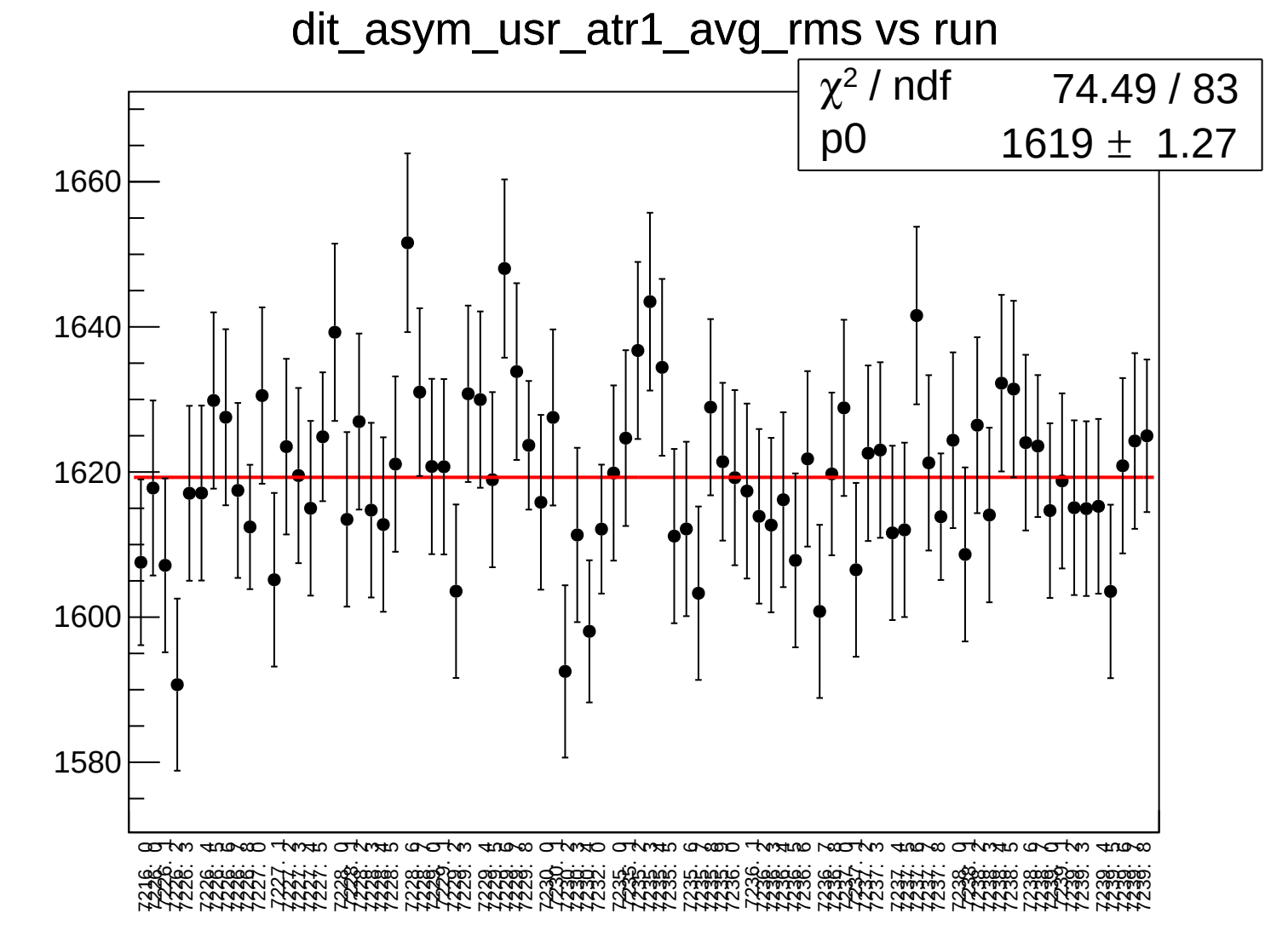

eigen_cor_asym_usr_atr1_avg_rms vs run
χ^2 / ndf 74.19 / 83
p0 1618 ± 1.269
1660
1640
1620
1600
1580

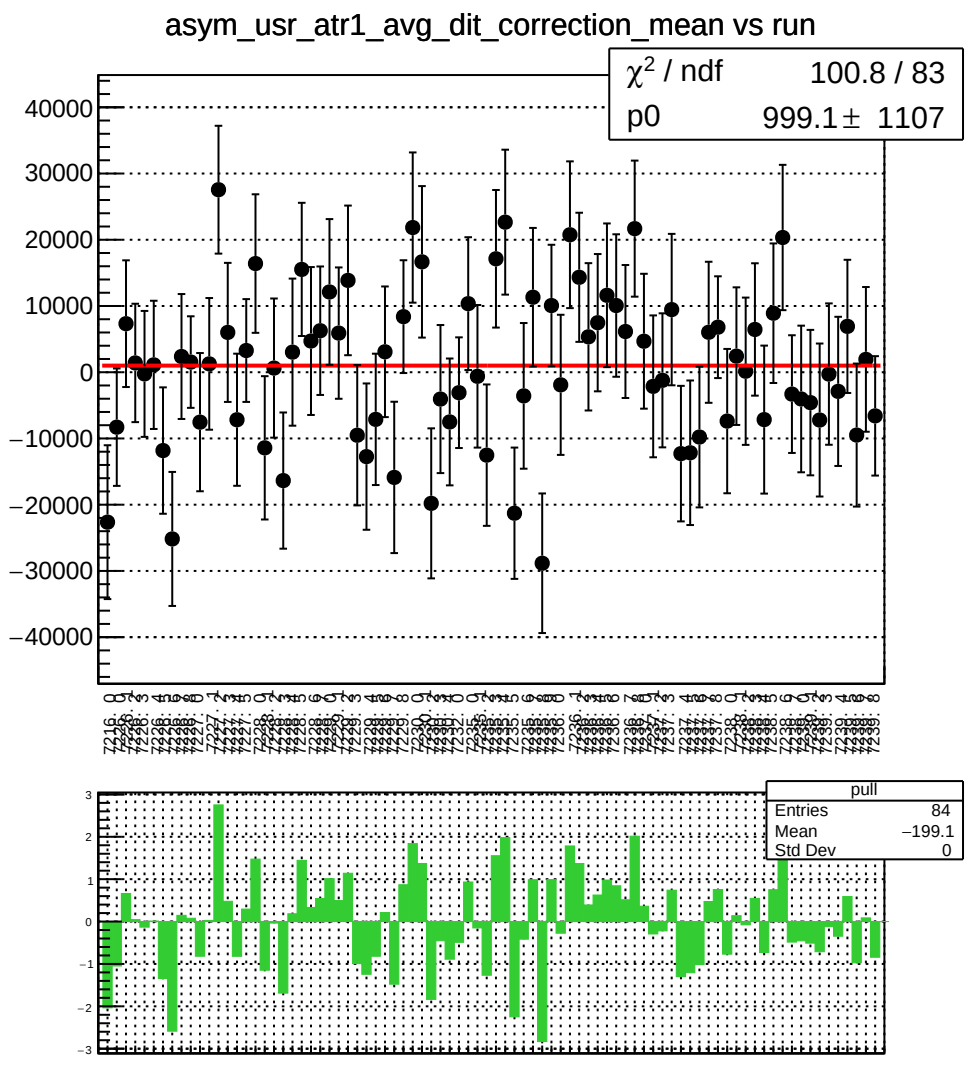

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
χ² / ndf 100.8 / 83
p0 841.8 ± 1086
pull
Entries 84
Mean −175.6
Std Dev 0

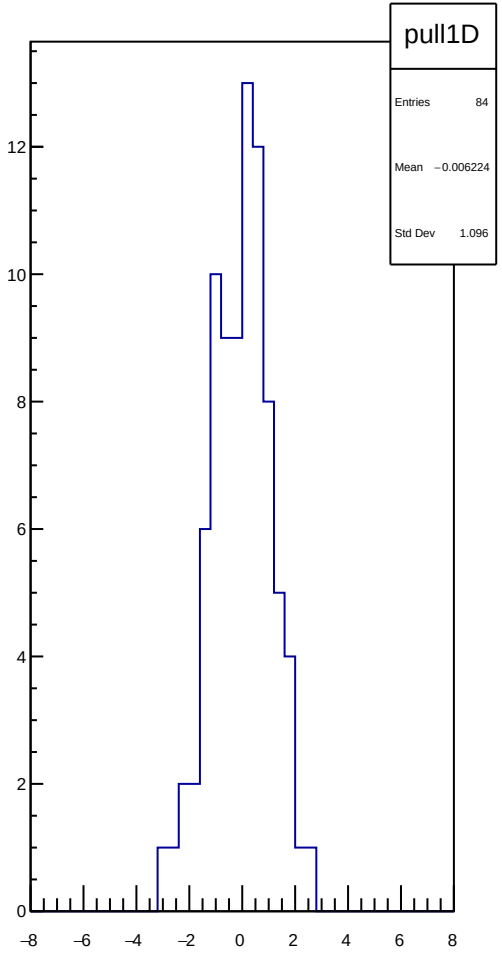

pull1D
Entries 84
Mean −0.006509
Std Dev 1.095

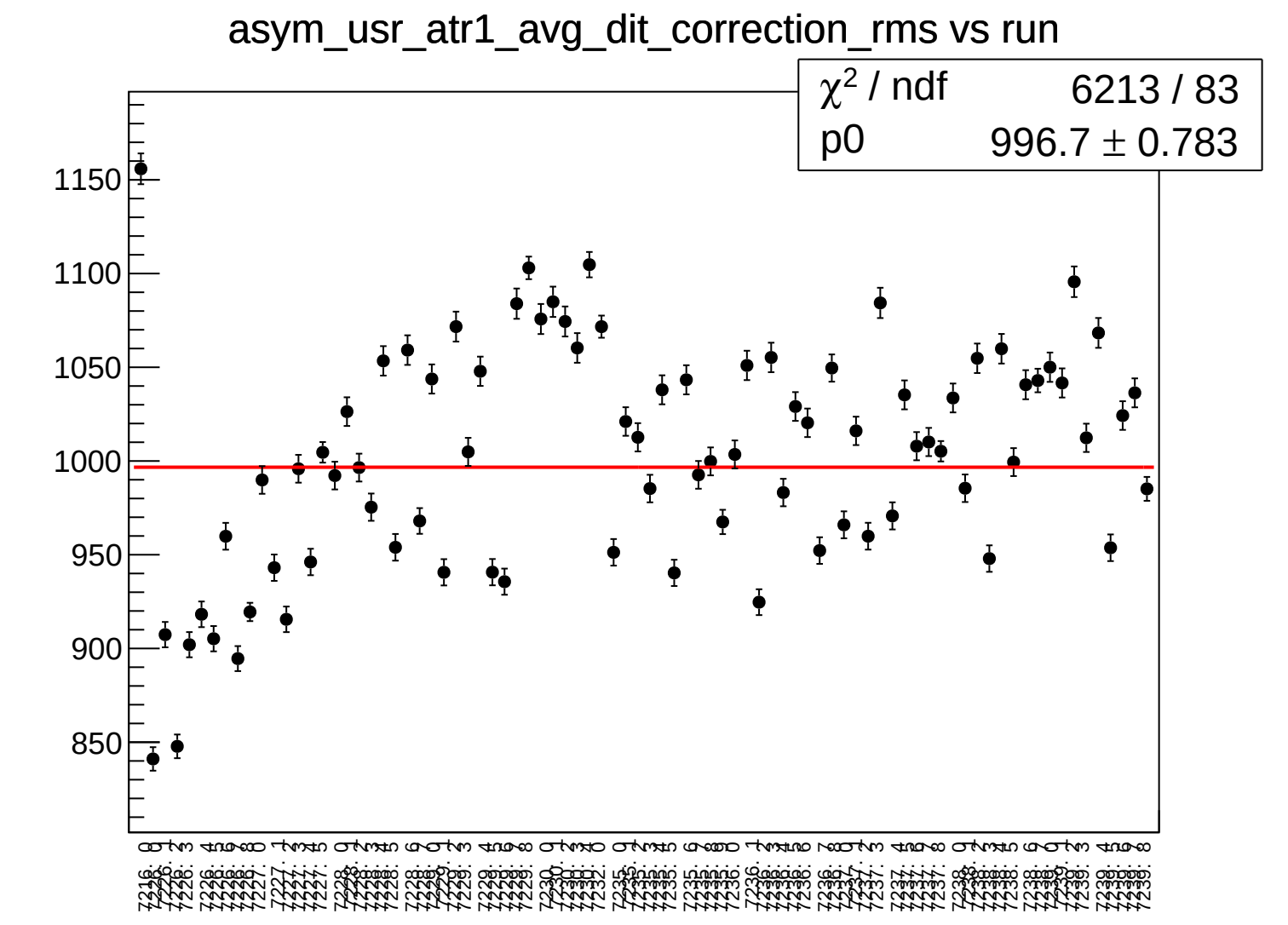

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 7278 / 83
p0 976.7 ± 0.7676
1150
1100
1050
1000
950
900
850
800

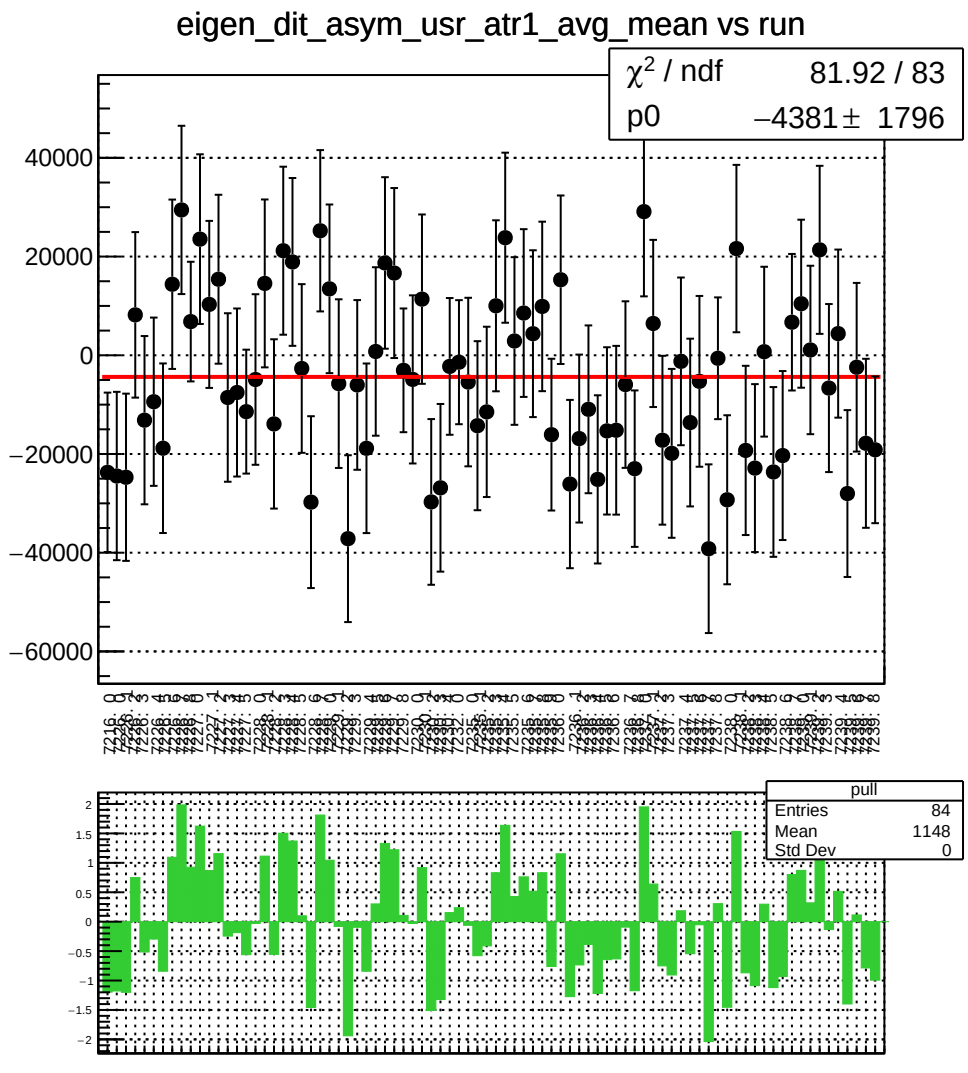

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 81.92 / 83
p0 −4381 ± 1796
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 1148
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 84
Mean −0.00334
Std Dev 0.9876
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

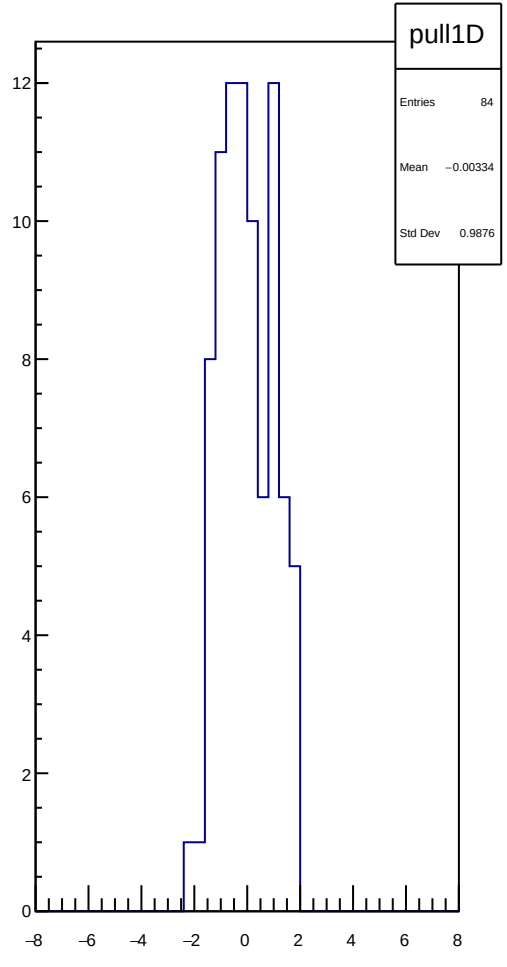

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 74.49 / 83
p0 1619 ± 1.27
1660
1640
1620
1600
1580

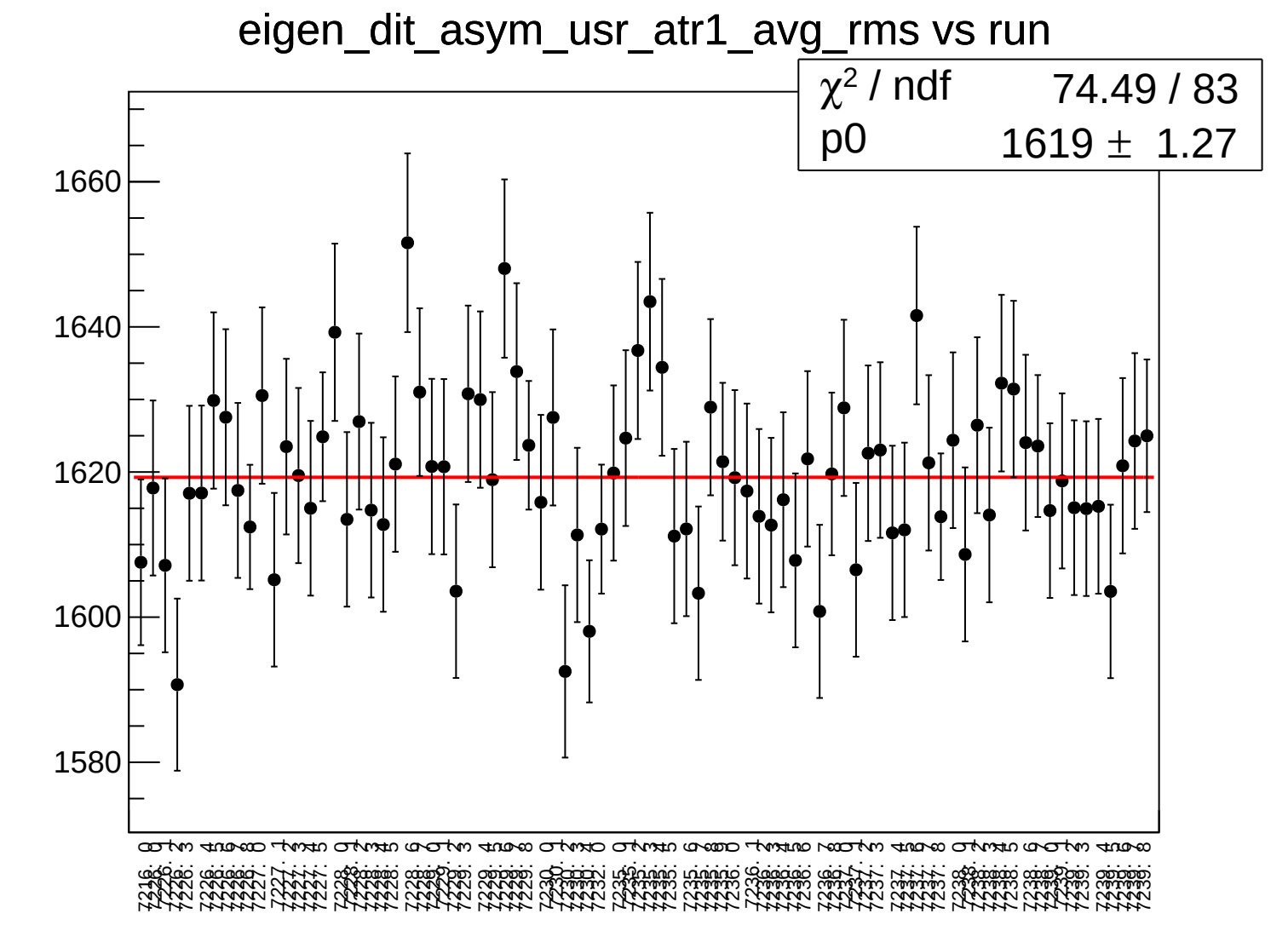

asym_usr_atr1_avg_dit_correction_mean vs run
χ² / ndf 100.8 / 83
p0 999.1 ± 1107
pull
Entries 84
Mean −199.1
Std Dev 0

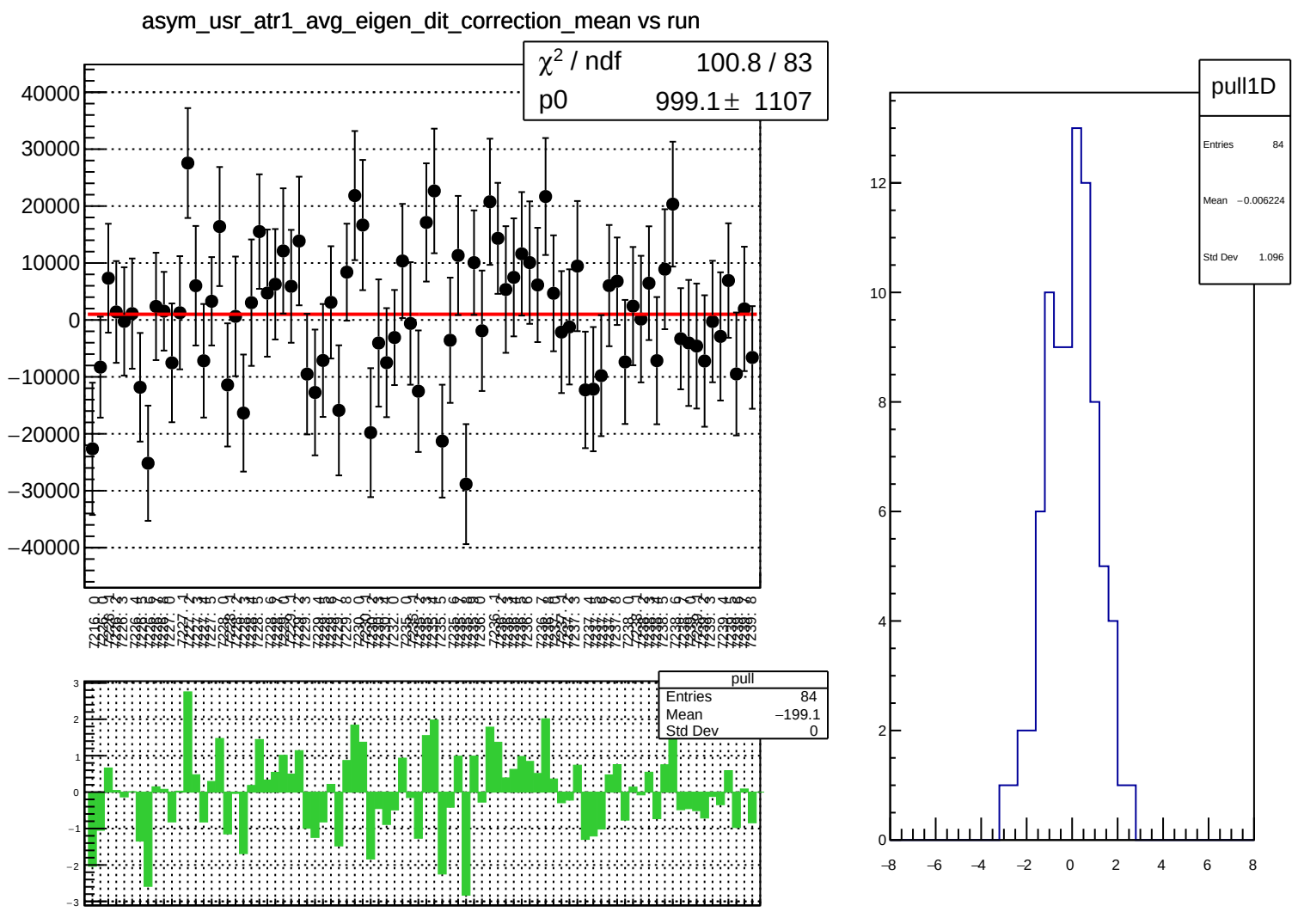

pull1D
Entries 84
Mean −0.006224
Std Dev 1.096

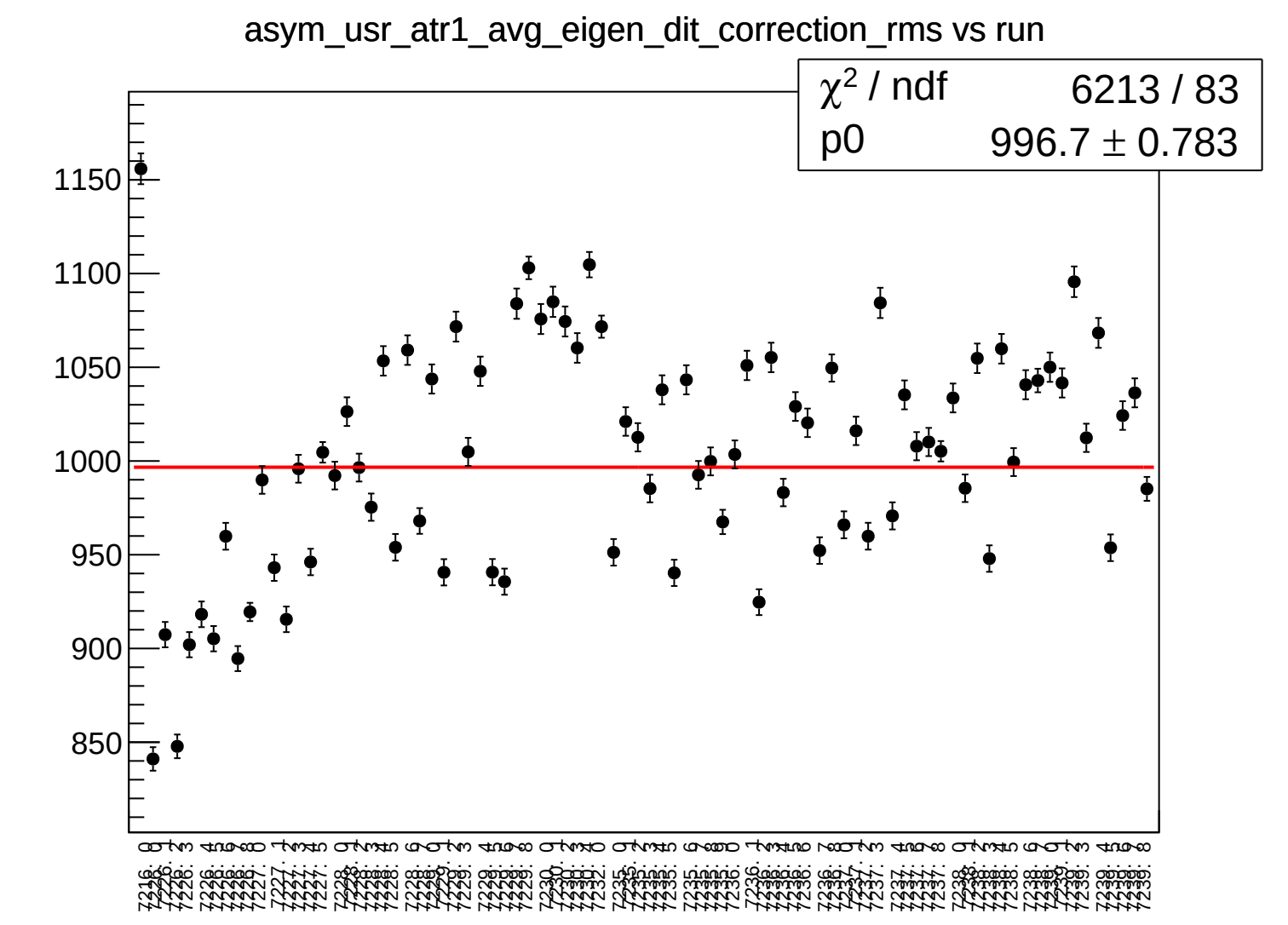

asym_usr_atr1_avg_dit_correction_rms vs run
χ^2 / ndf 6213 / 83
p0 996.7 ± 0.783
1150
1100
1050
1000
950
900
850

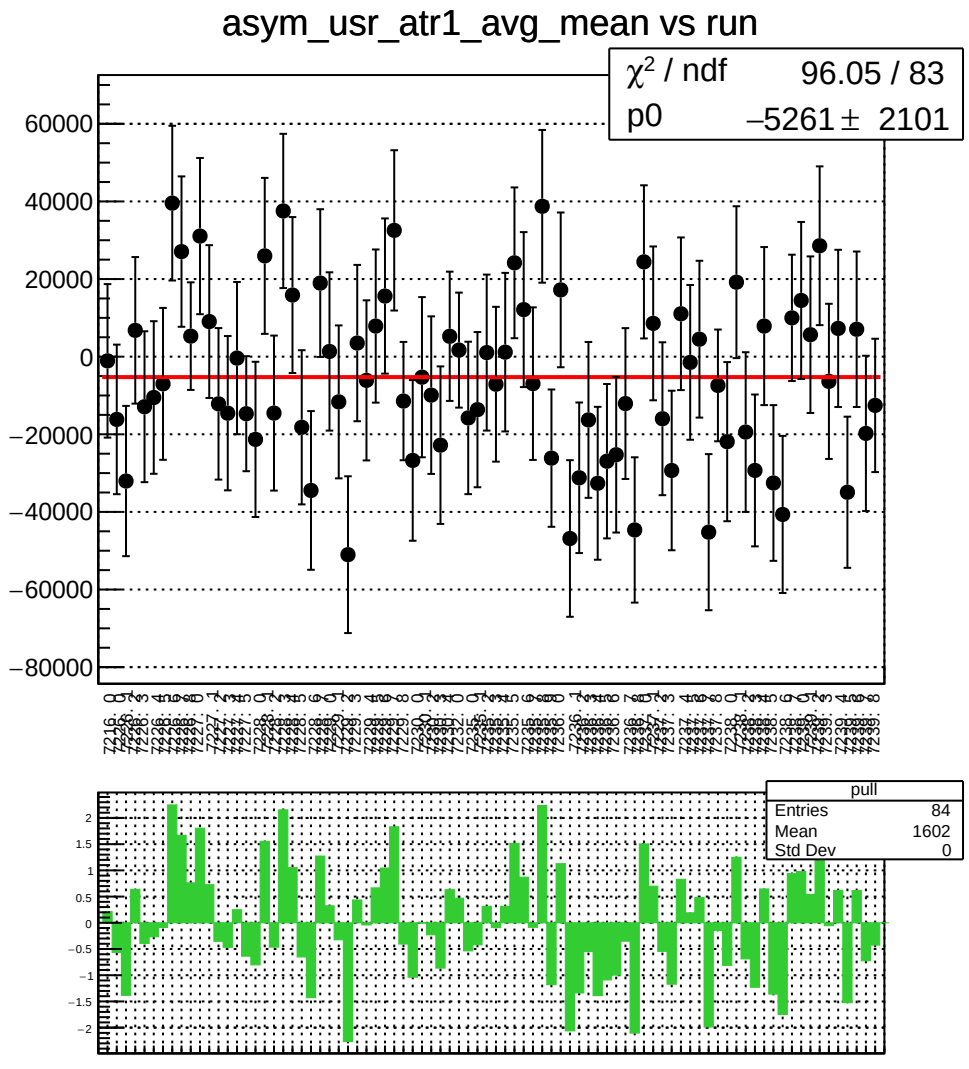

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 81.92 / 83
p0 −4381 ± 1796
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 1148
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

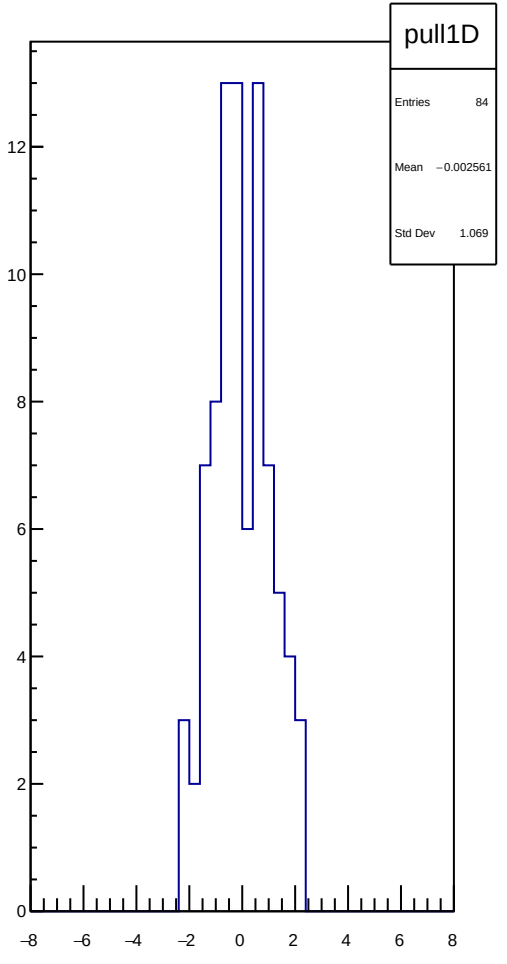

pull1D
Entries 84
Mean −0.00334
Std Dev 0.9876
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

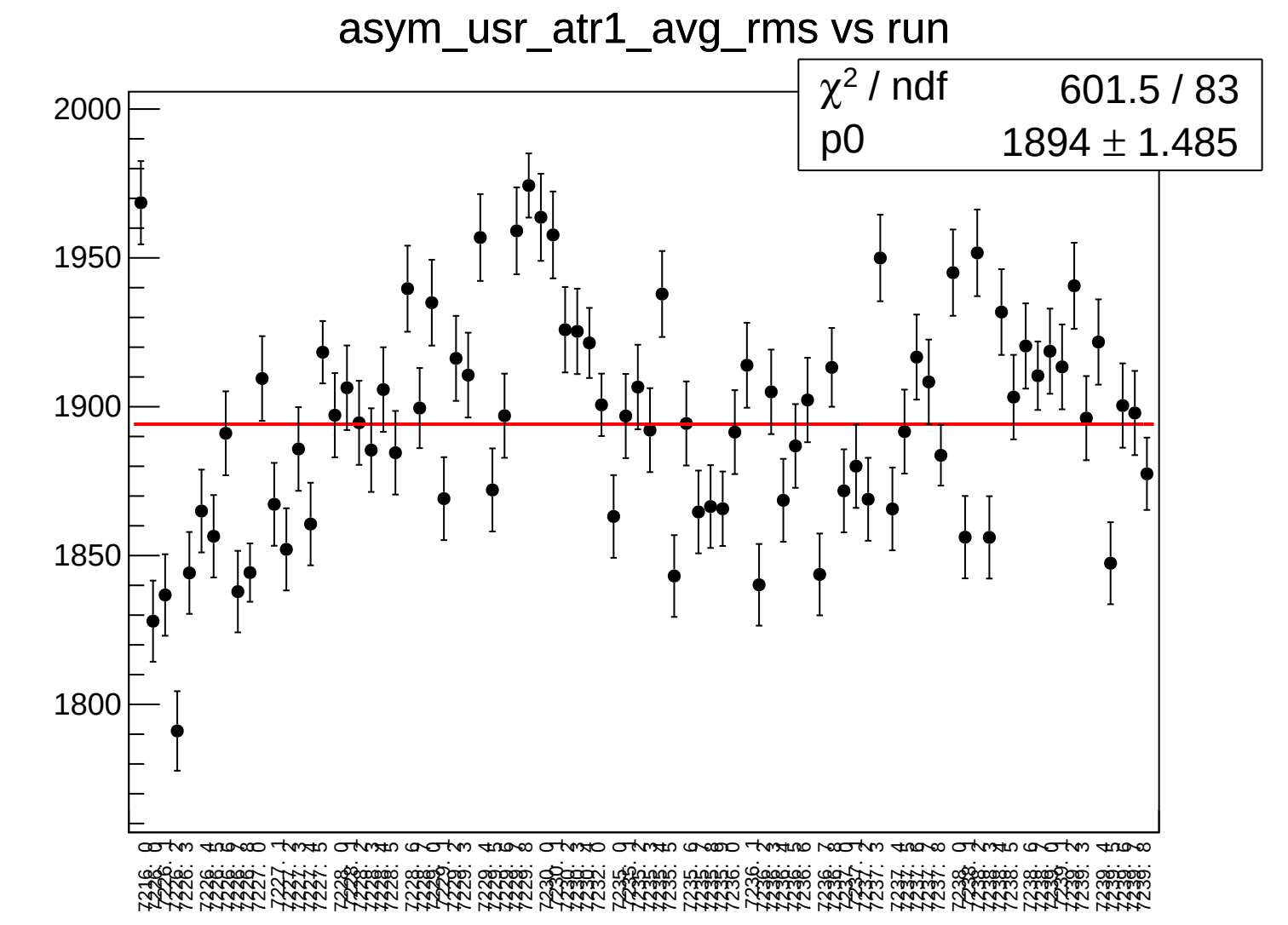

eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 74.49 / 83
p0 1619 ± 1.27
1660
1640
1620
1600
1580

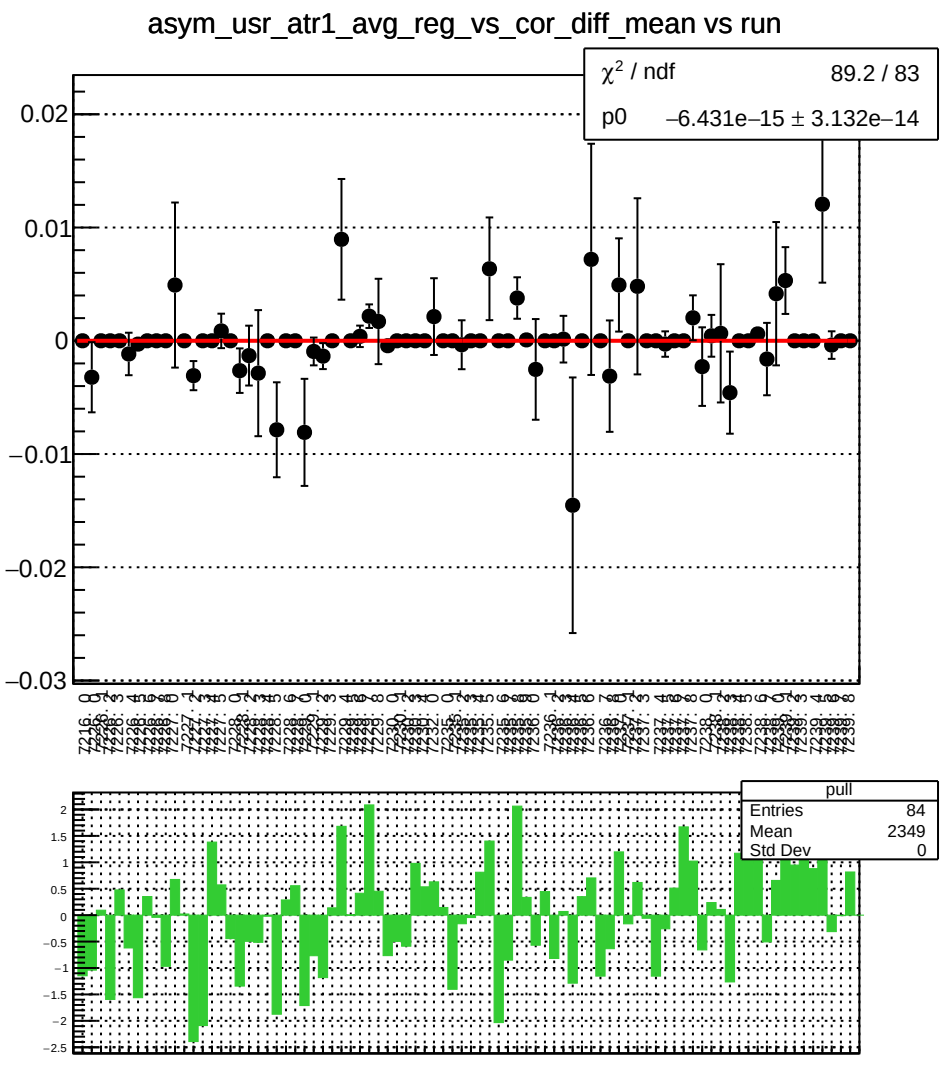

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
χ² / ndf 100.8 / 83
p0 999.1 ± 1107
pull
Entries 84
Mean −199.1
Std Dev 0
pull1D
Entries 84
Mean −0.006224
Std Dev 1.096

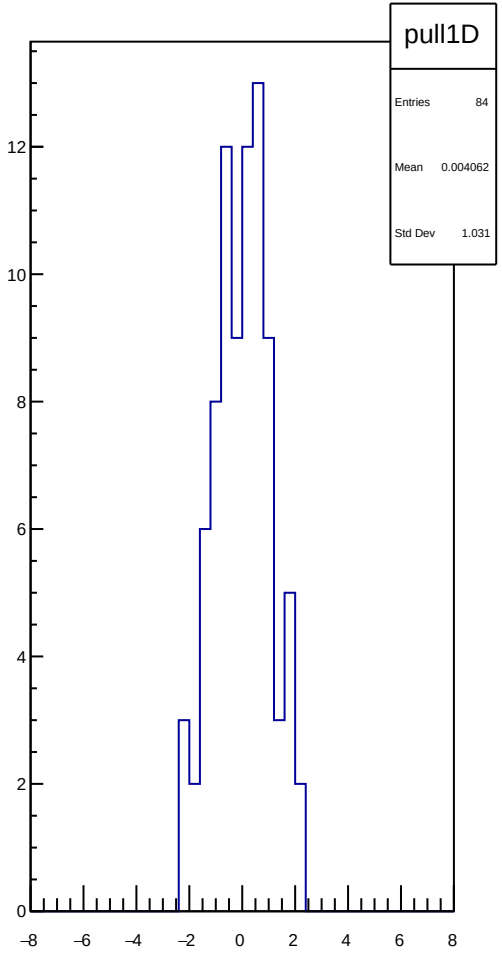

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ^2 / ndf 6213 / 83
p0 996.7 ± 0.783
1150
1100
1050
1000
950
900
850

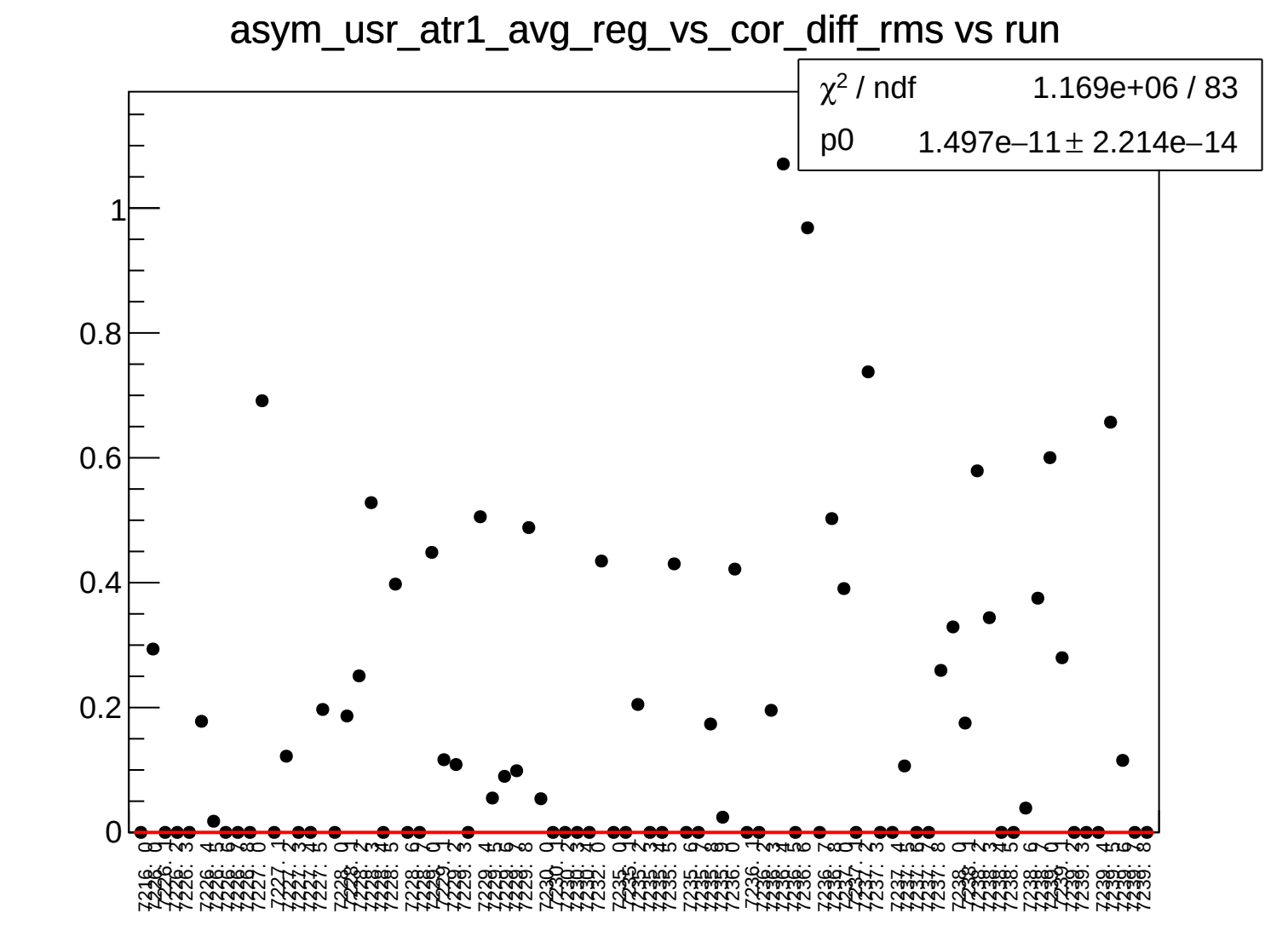

asym_usr_atr1_avg_mean vs run
χ² / ndf 96.05 / 83
p0 −5261 ± 2101
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean 1602
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

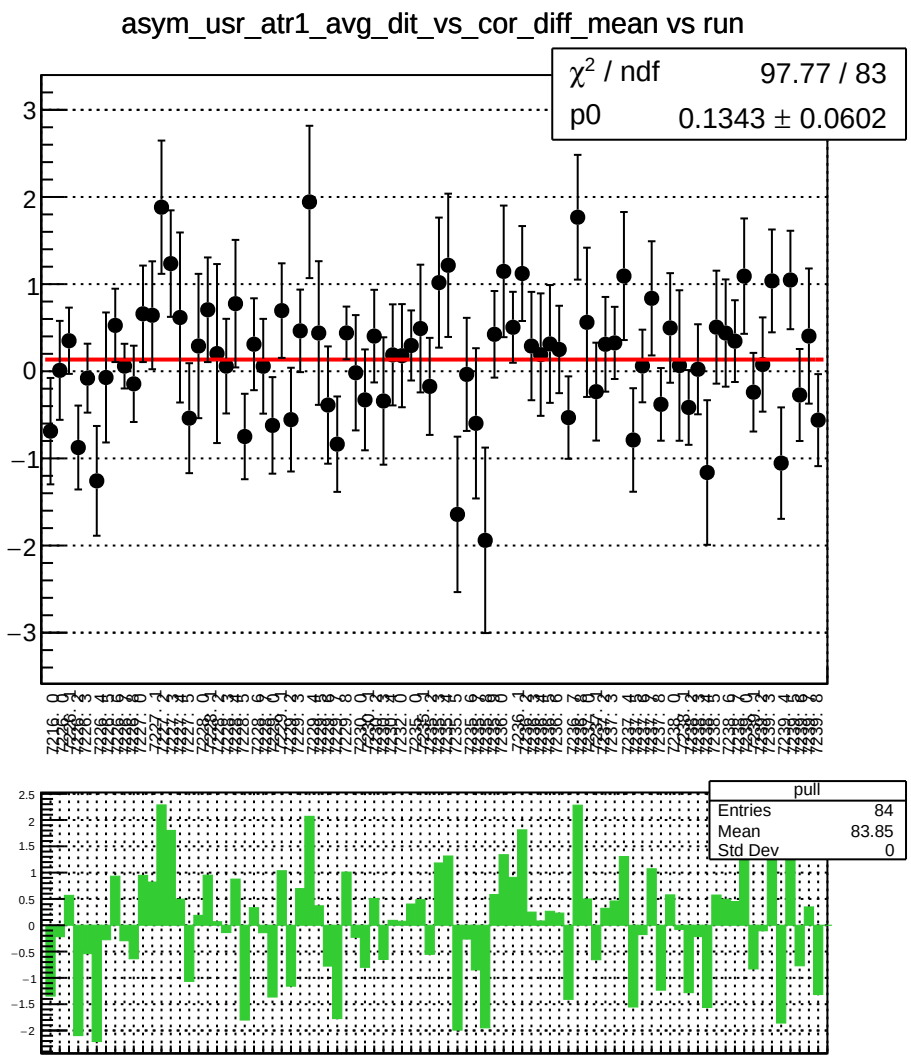

pull1D
Entries 84
Mean −0.002561
Std Dev 1.069
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

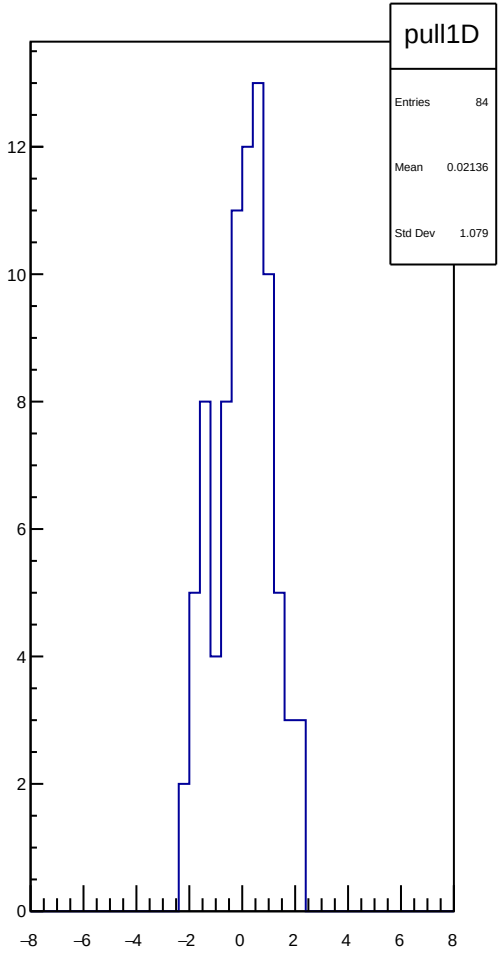

asym_usr_atr1_avg_rms vs run
χ² / ndf 601.5 / 83
p0 1894 ± 1.485
2000
1950
1900
1850
1800

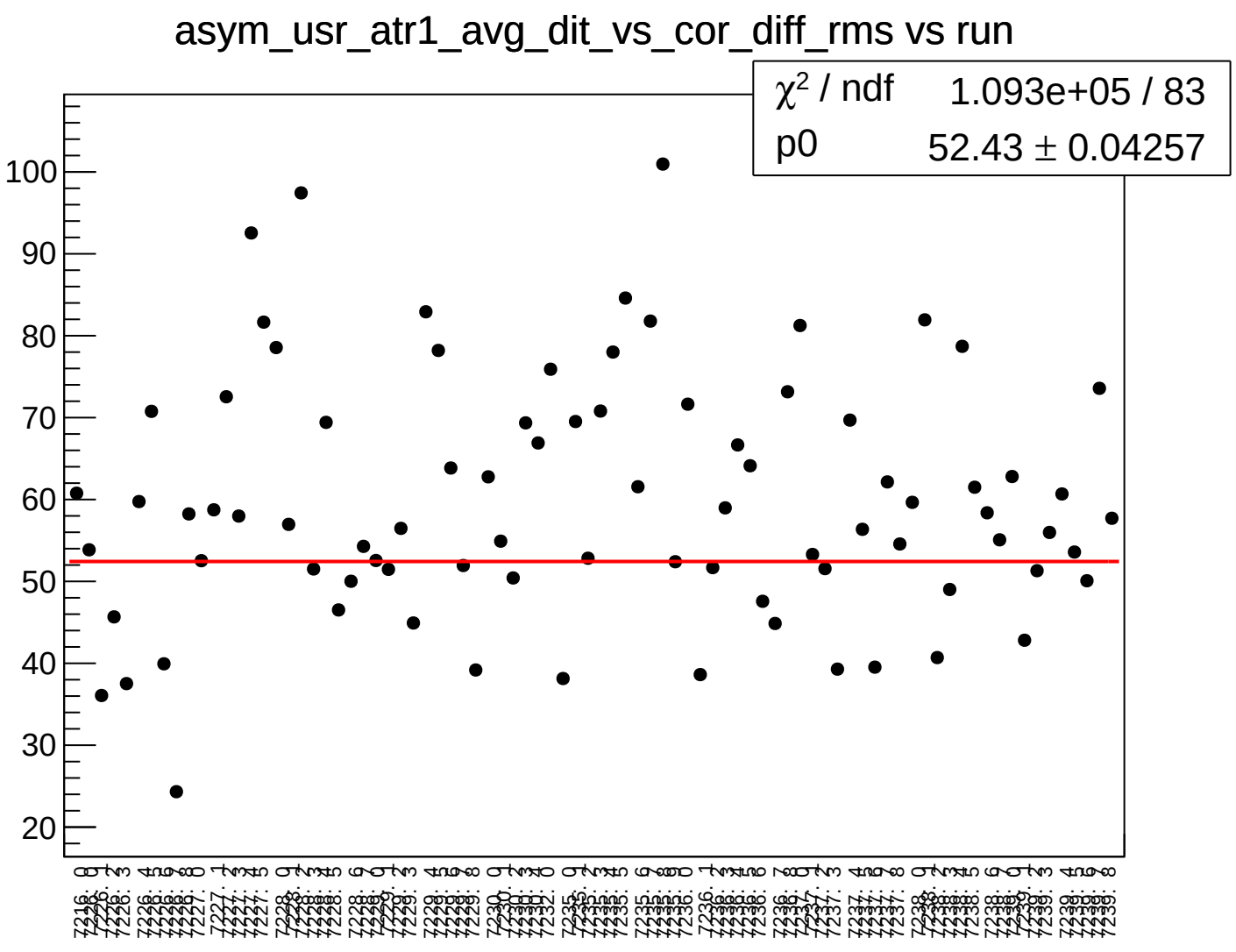

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 89.2 / 83
p0 −6.431e−15 ± 3.132e−14
pull
Entries 84
Mean 2349
Std Dev 0

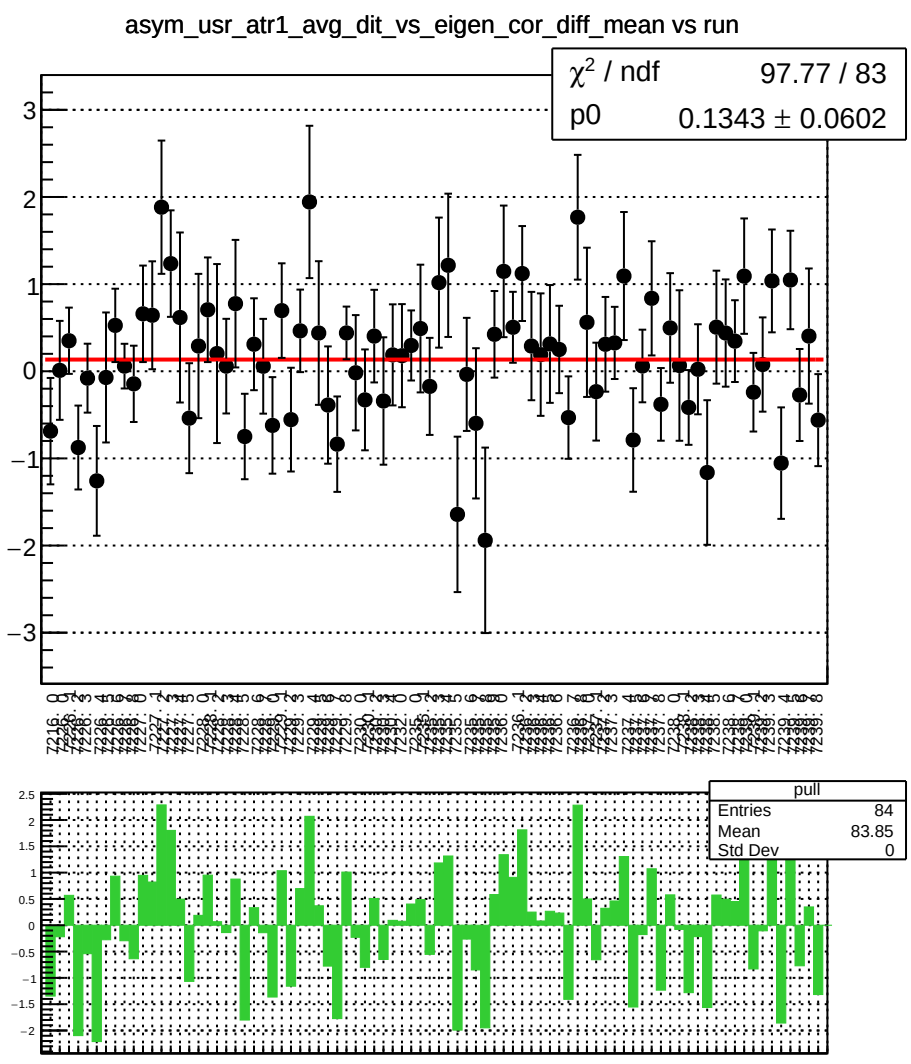

pull1D
Entries 84
Mean 0.004062
Std Dev 1.031

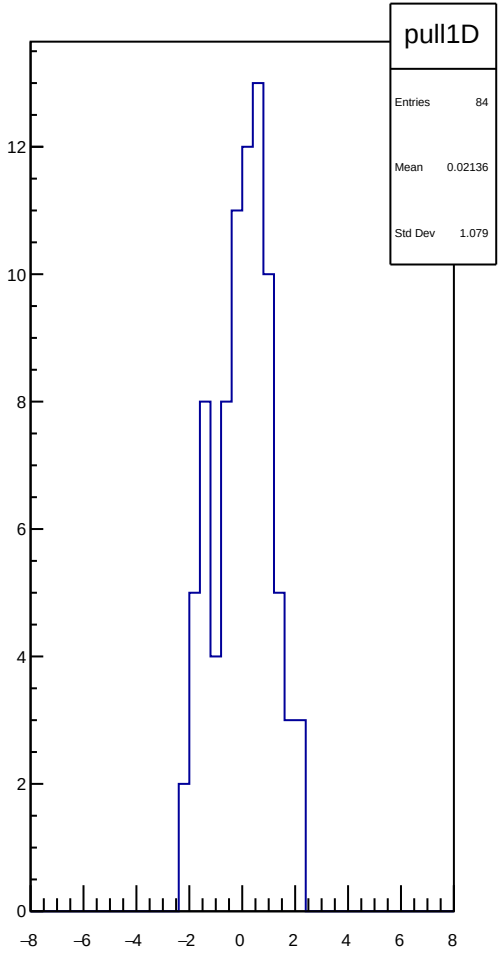

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.169e+06 / 83
p0 1.497e−11 ± 2.214e−14
1
0.8
0.6
0.4
0.2
0

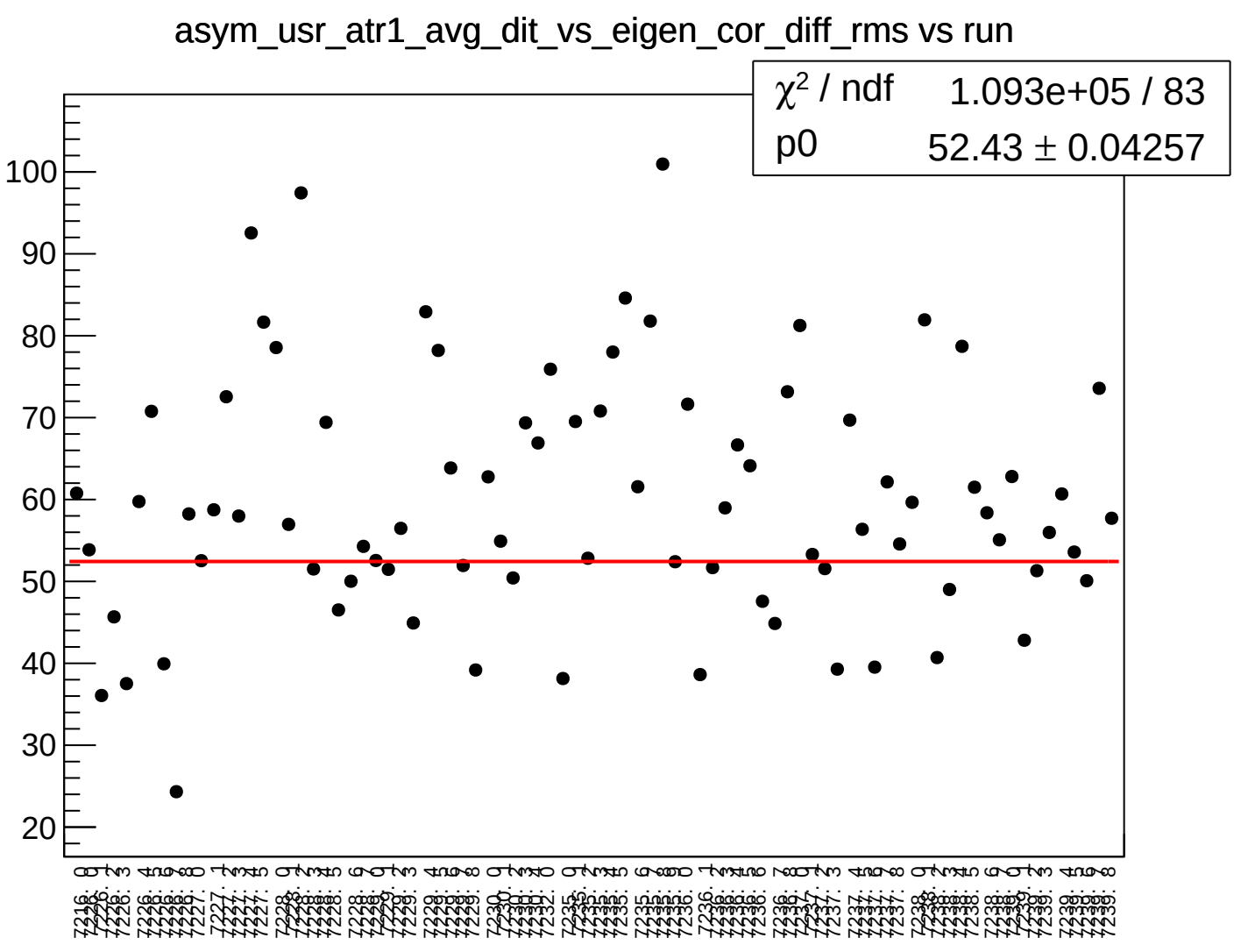

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 97.77 / 83
p0 0.1343 ± 0.0602
pull
Entries 84
Mean 83.85
Std Dev 0

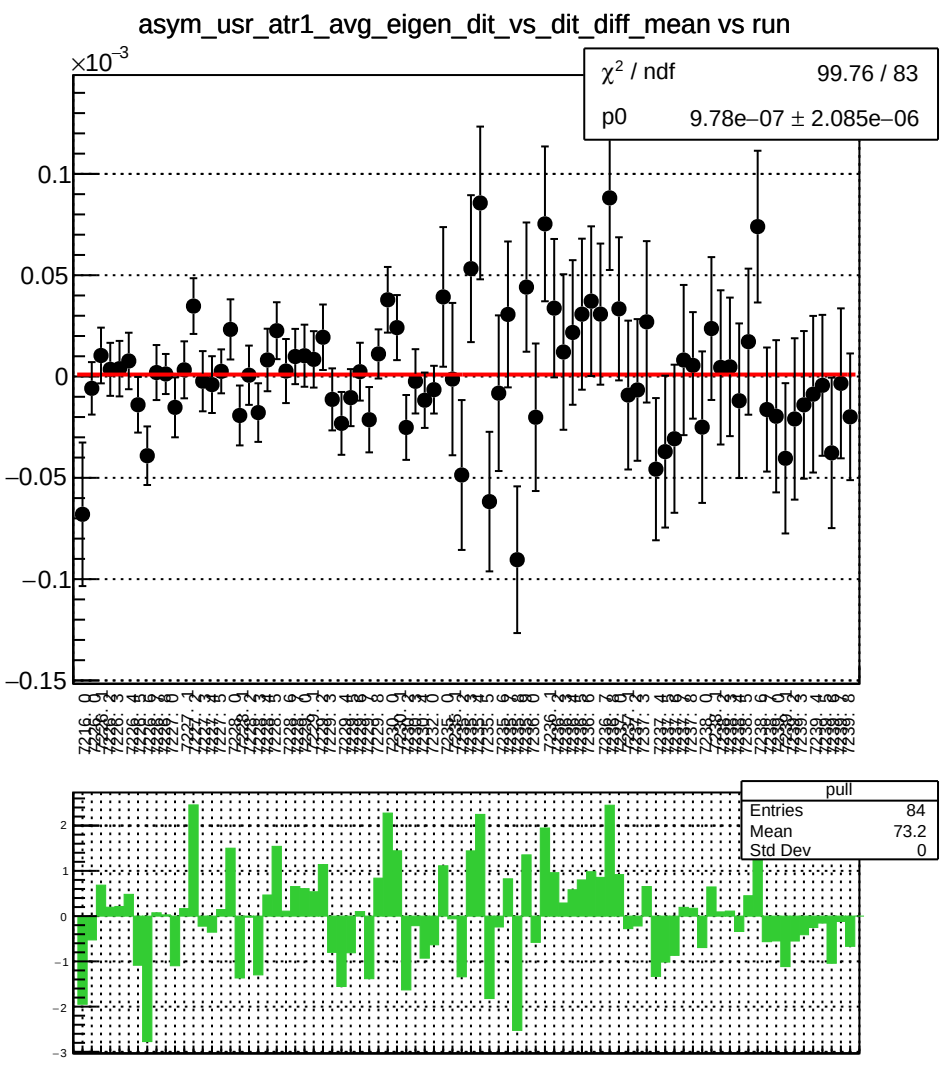

pull1D
Entries 84
Mean 0.02136
Std Dev 1.079

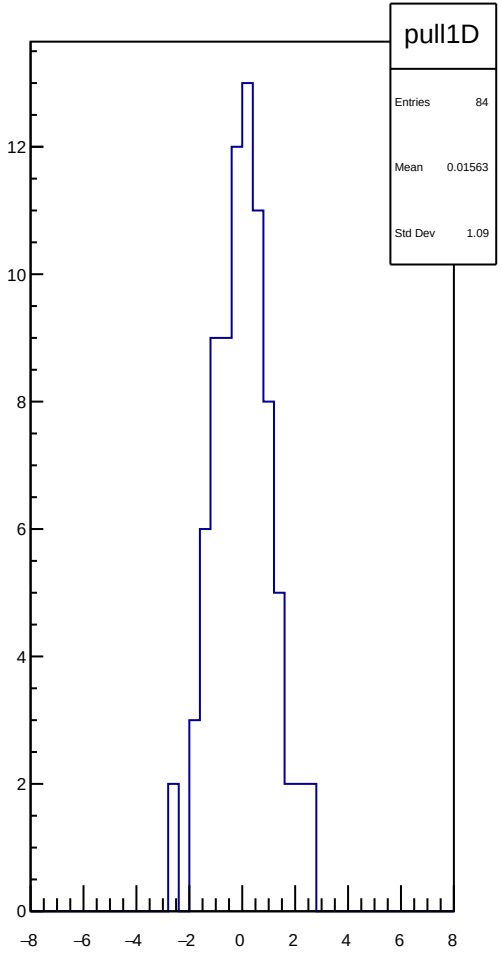

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.093e+05 / 83
p0 52.43 ± 0.04257
100
90
80
70
60
50
40
30
20

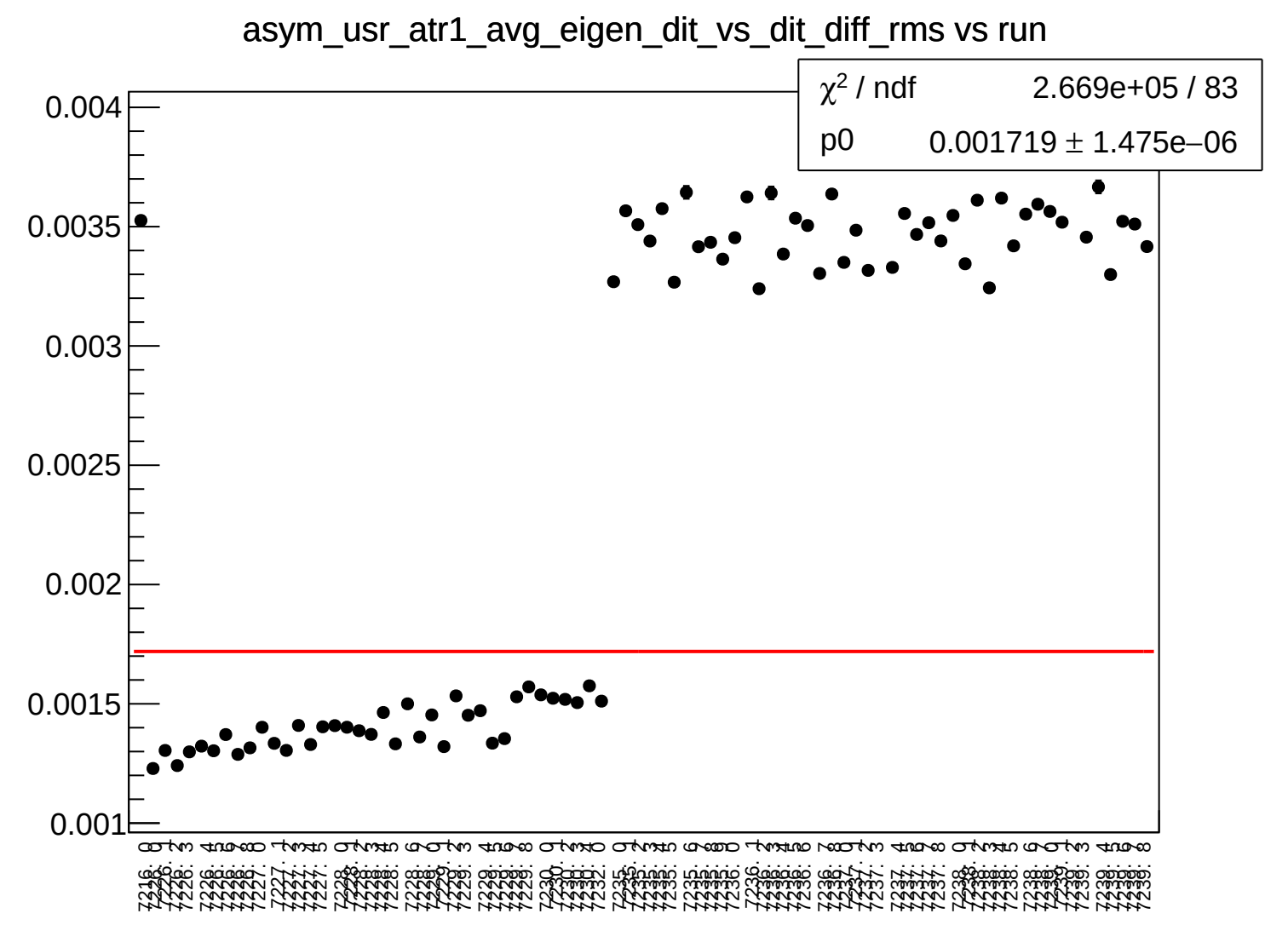

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.77 / 83
p0 0.1343 ± 0.0602
pull
Entries 84
Mean 83.85
Std Dev 0

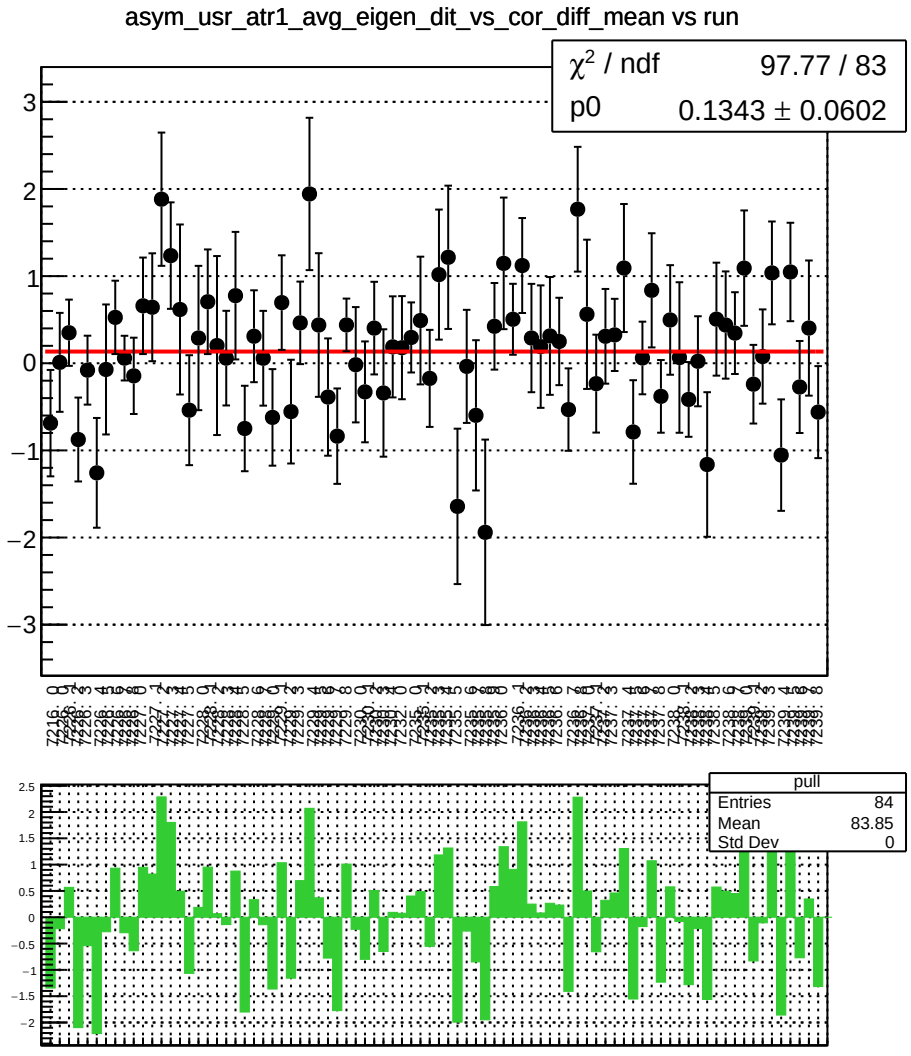

pull1D
Entries 84
Mean 0.02136
Std Dev 1.079

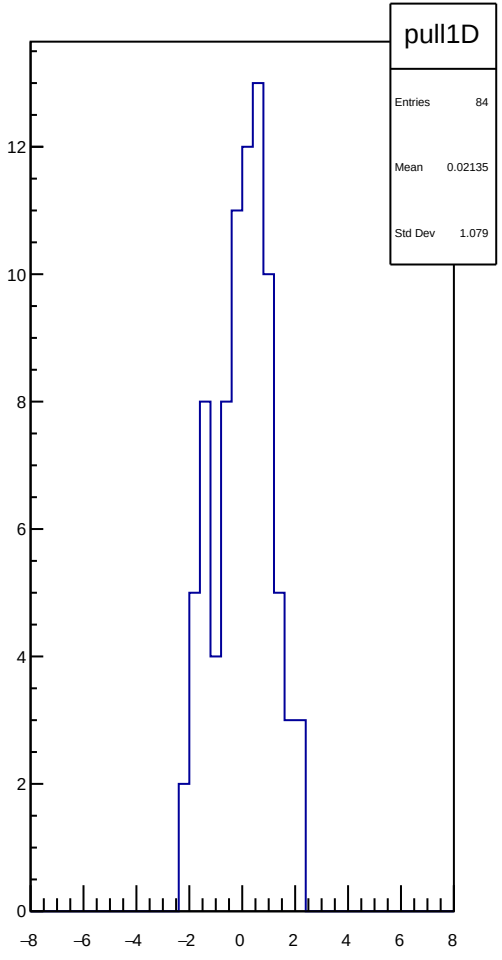

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.093e+05 / 83
p0 52.43 ± 0.04257
100
90
80
70
60
50
40
30
20

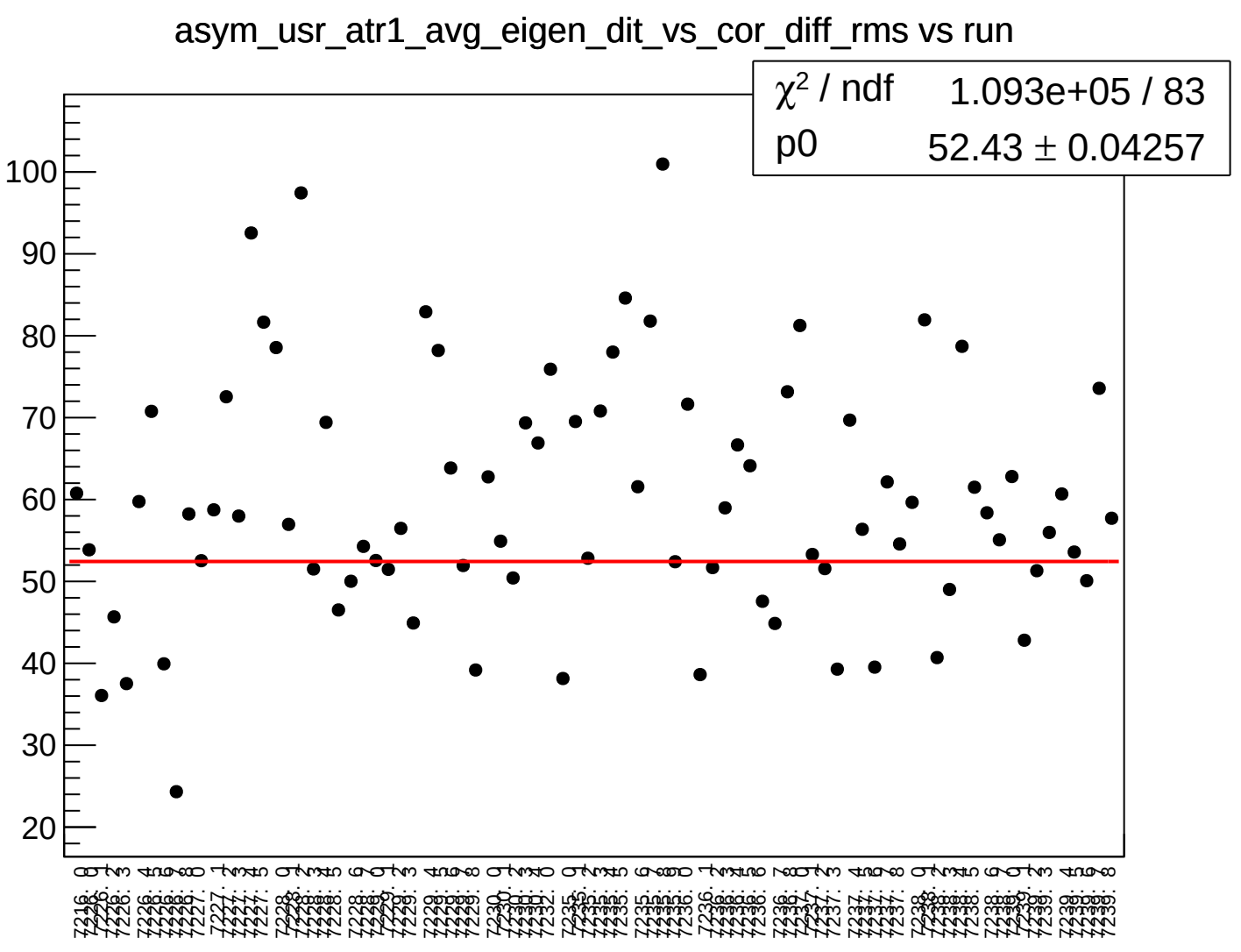

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.76 / 83
p0 9.78e−07 ± 2.085e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 84
Mean 73.2
Std Dev 0
2
1
0
−1
−2
−3

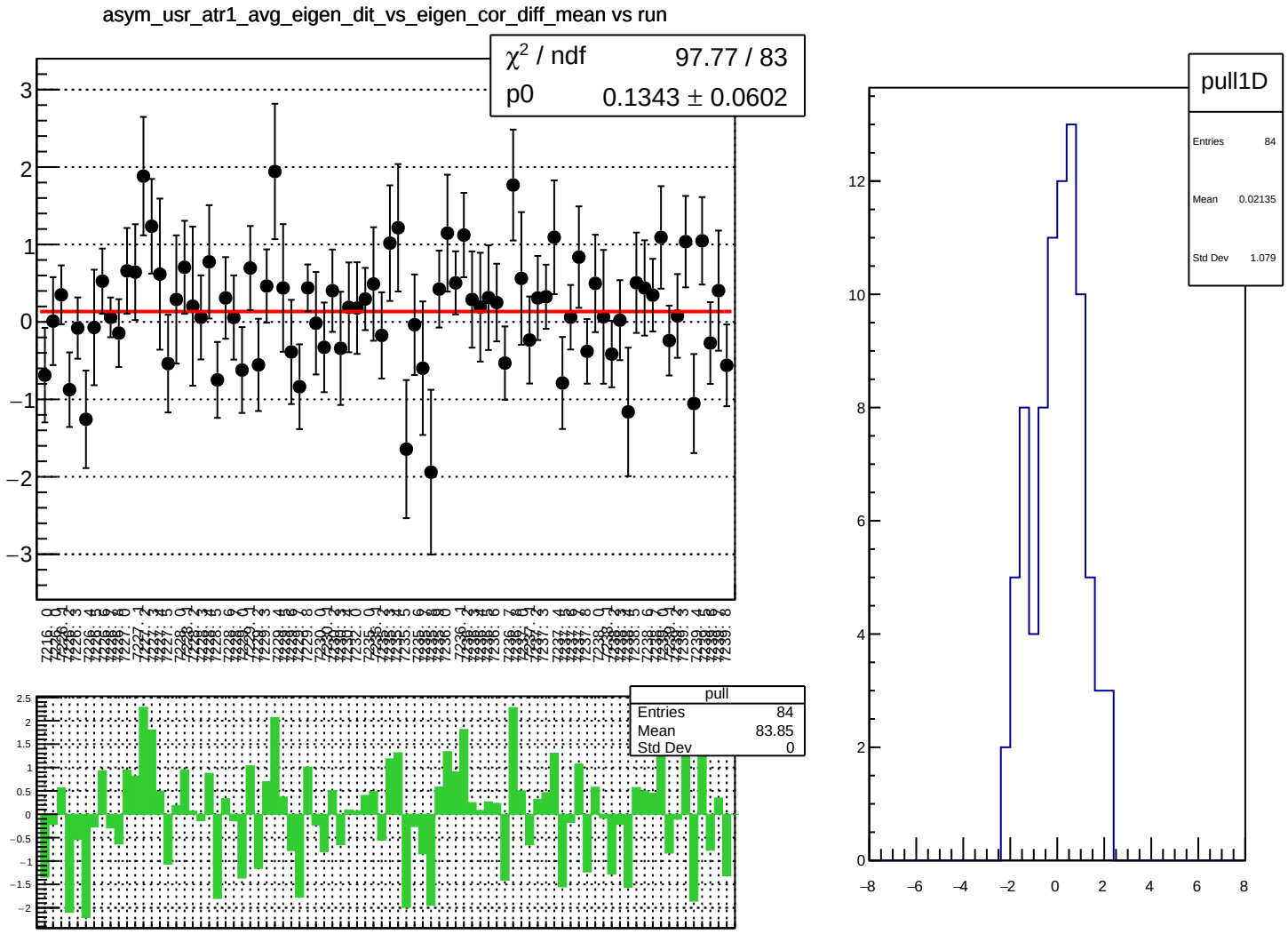

pull1D
Entries 84
Mean 0.01563
Std Dev 1.09
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

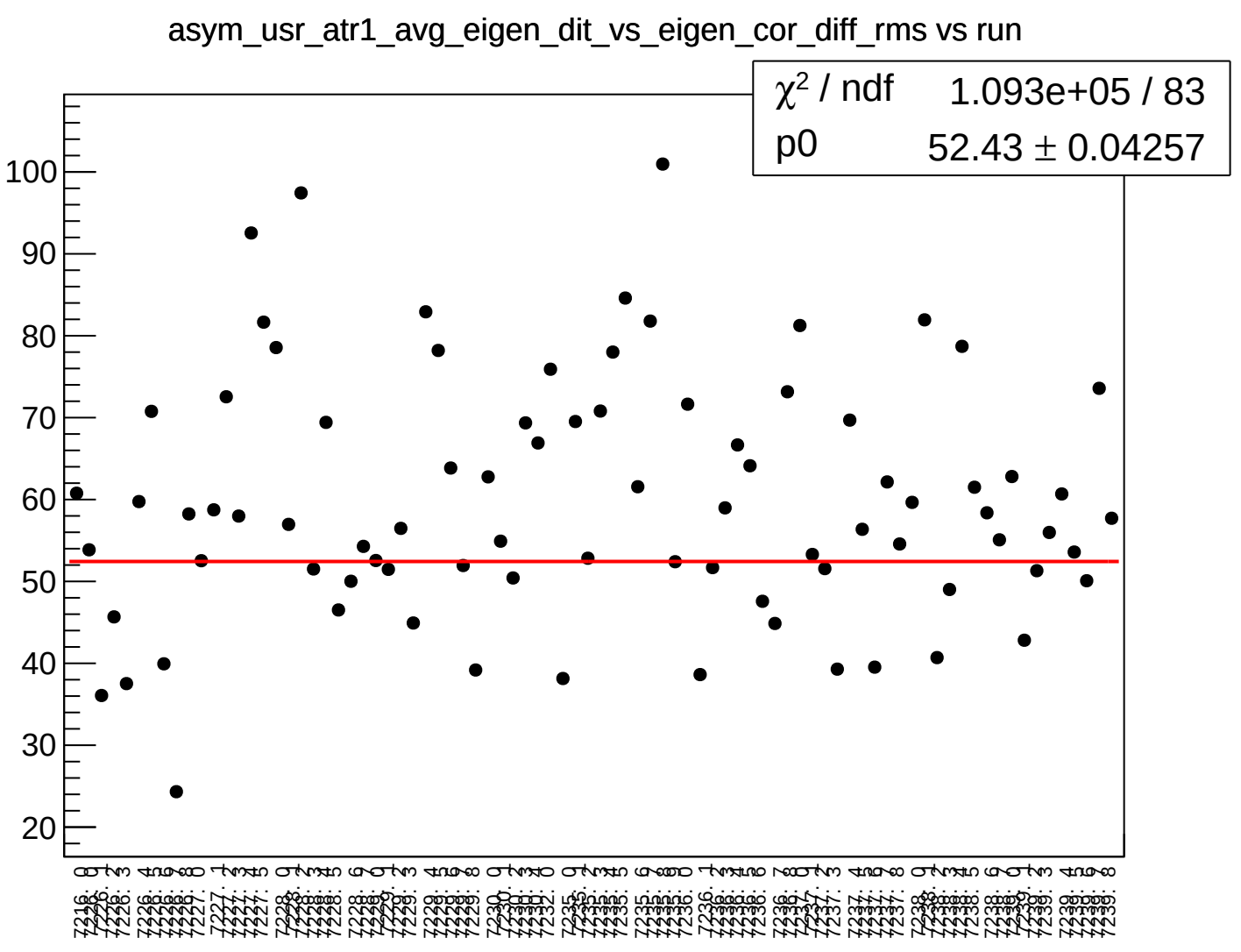

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.669e+05 / 83
p0 0.001719 ± 1.475e−06
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

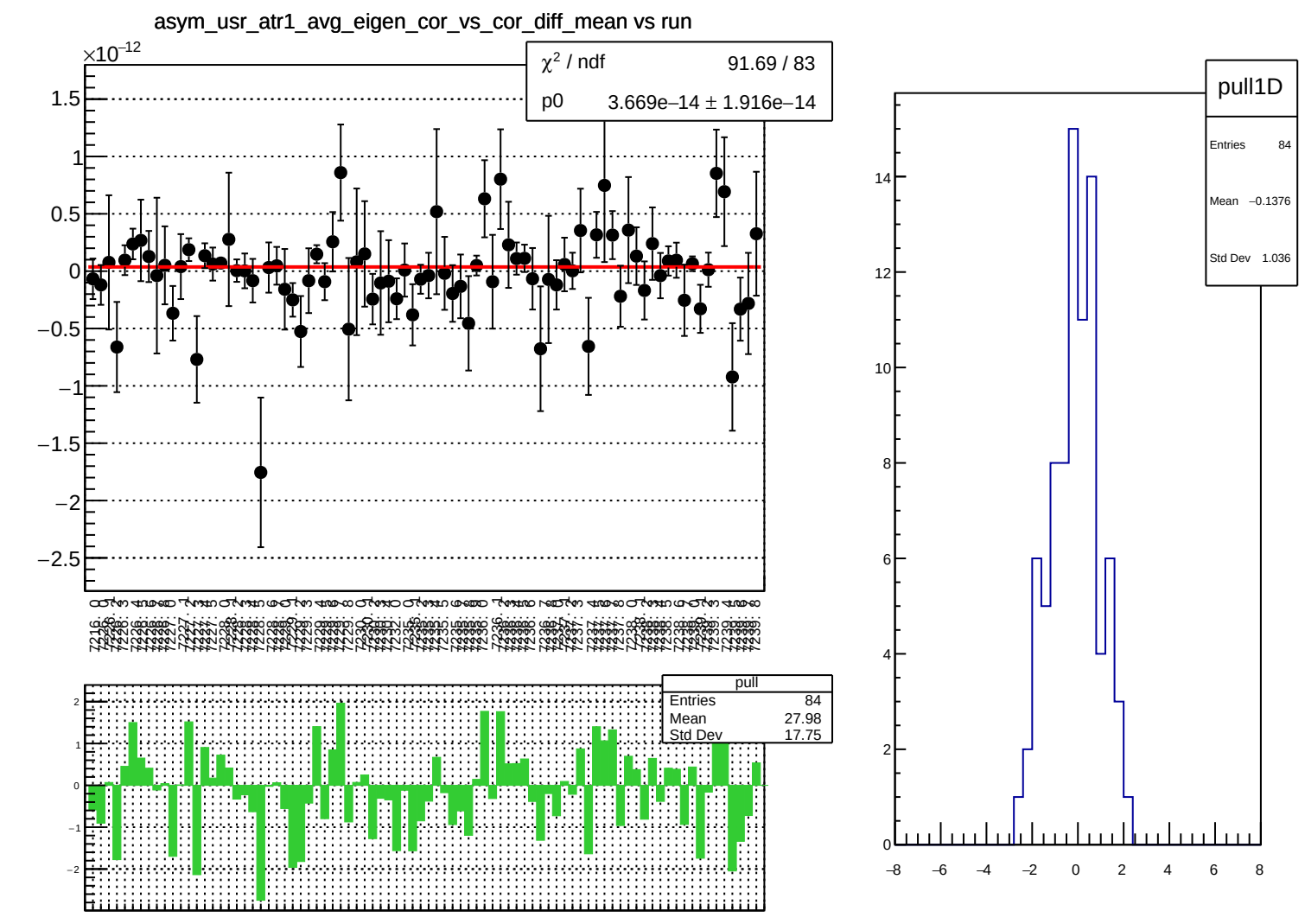

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.77 / 83
p0 0.1343 ± 0.0602
pull
Entries 84
Mean 83.85
Std Dev 0

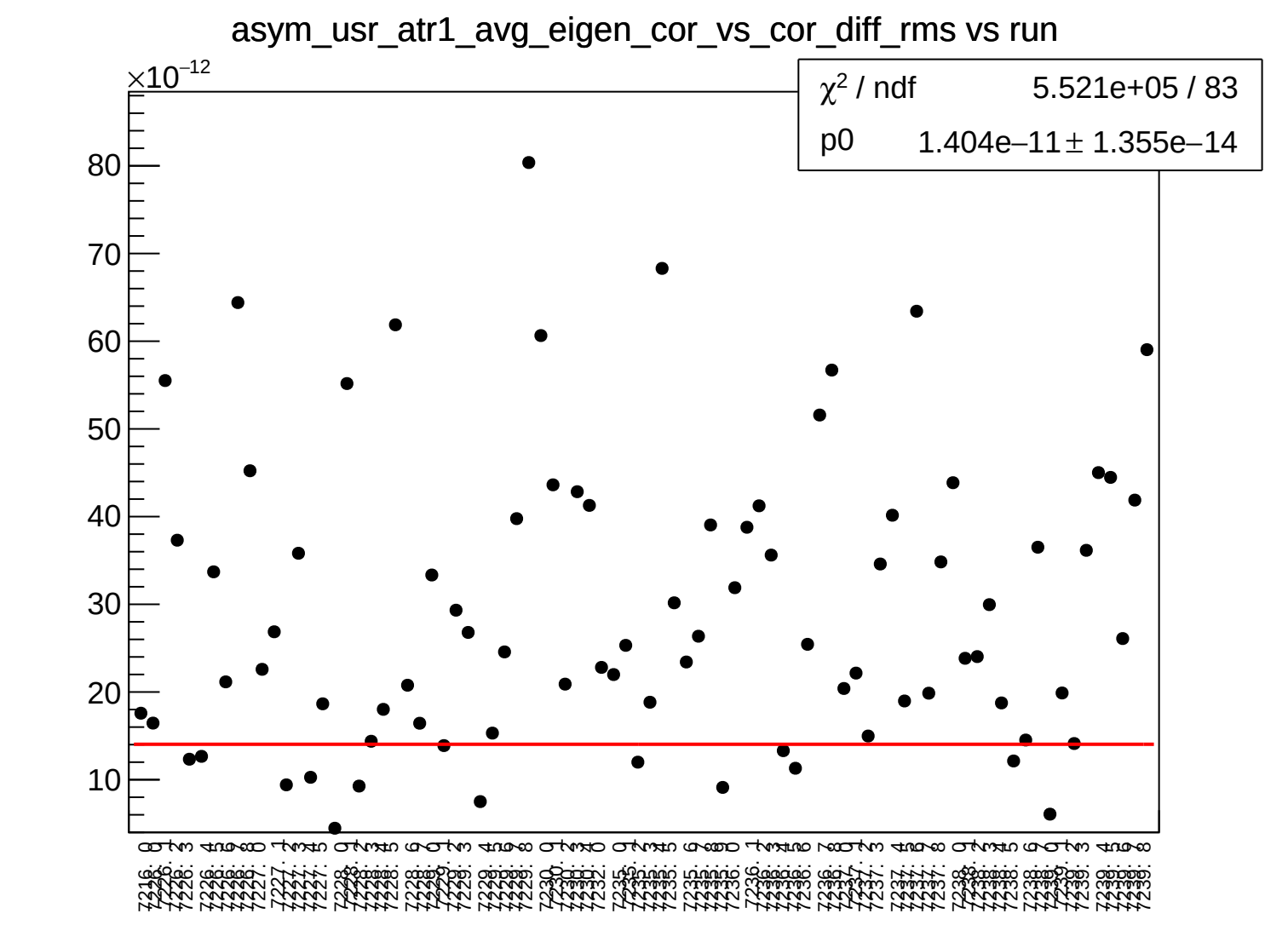

pull1D
Entries 84
Mean 0.02135
Std Dev 1.079

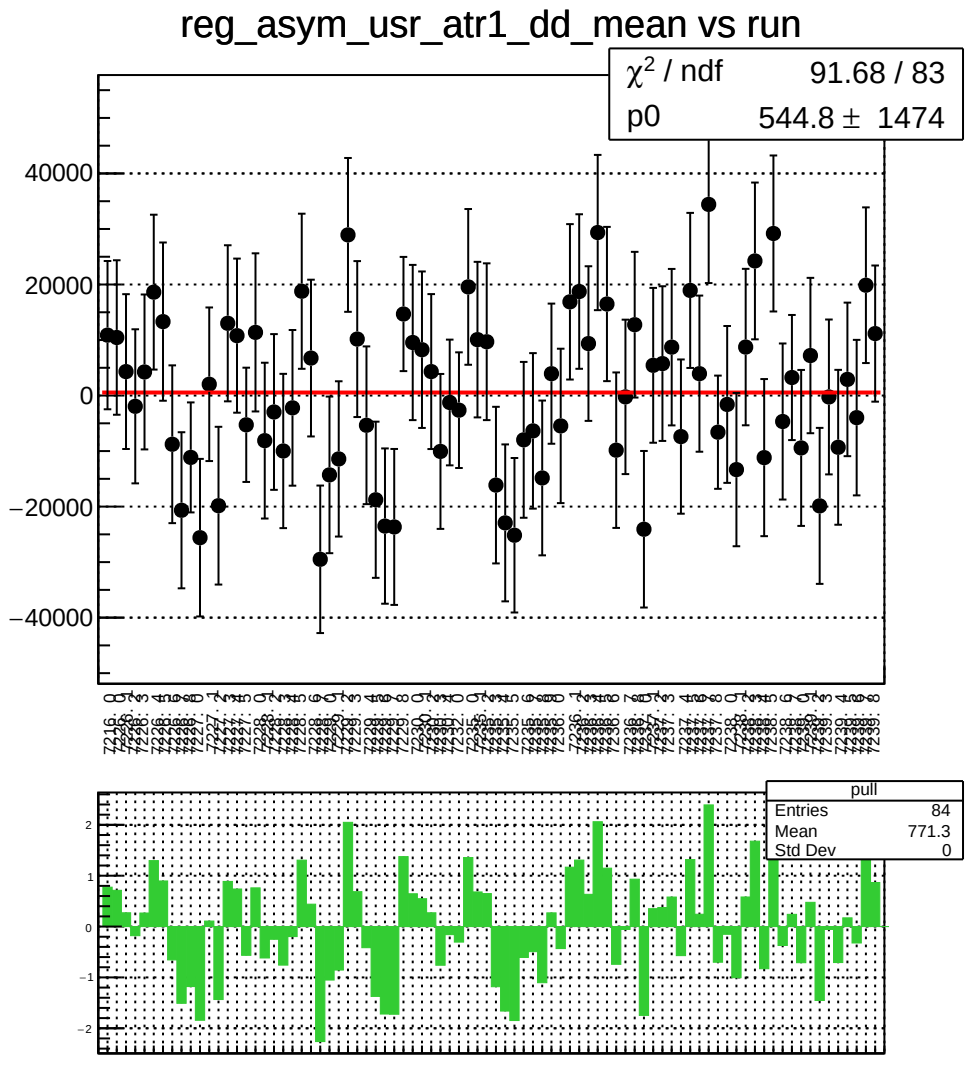

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.093e+05 / 83
p0 52.43 ± 0.04257
100
90
80
70
60
50
40
30
20

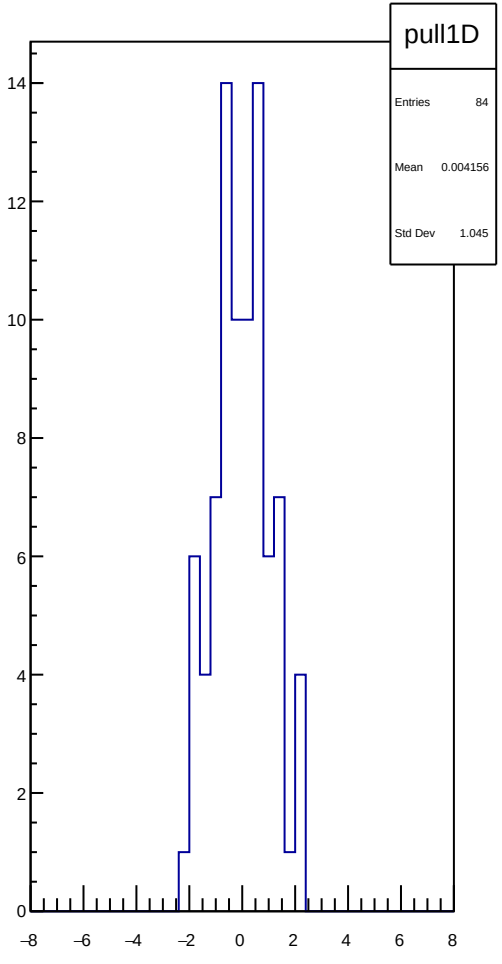

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.77 / 83
p0 0.1343 ± 0.0602
pull
Entries 84
Mean 83.85
Std Dev 0
pull1D
Entries 84
Mean 0.02135
Std Dev 1.079

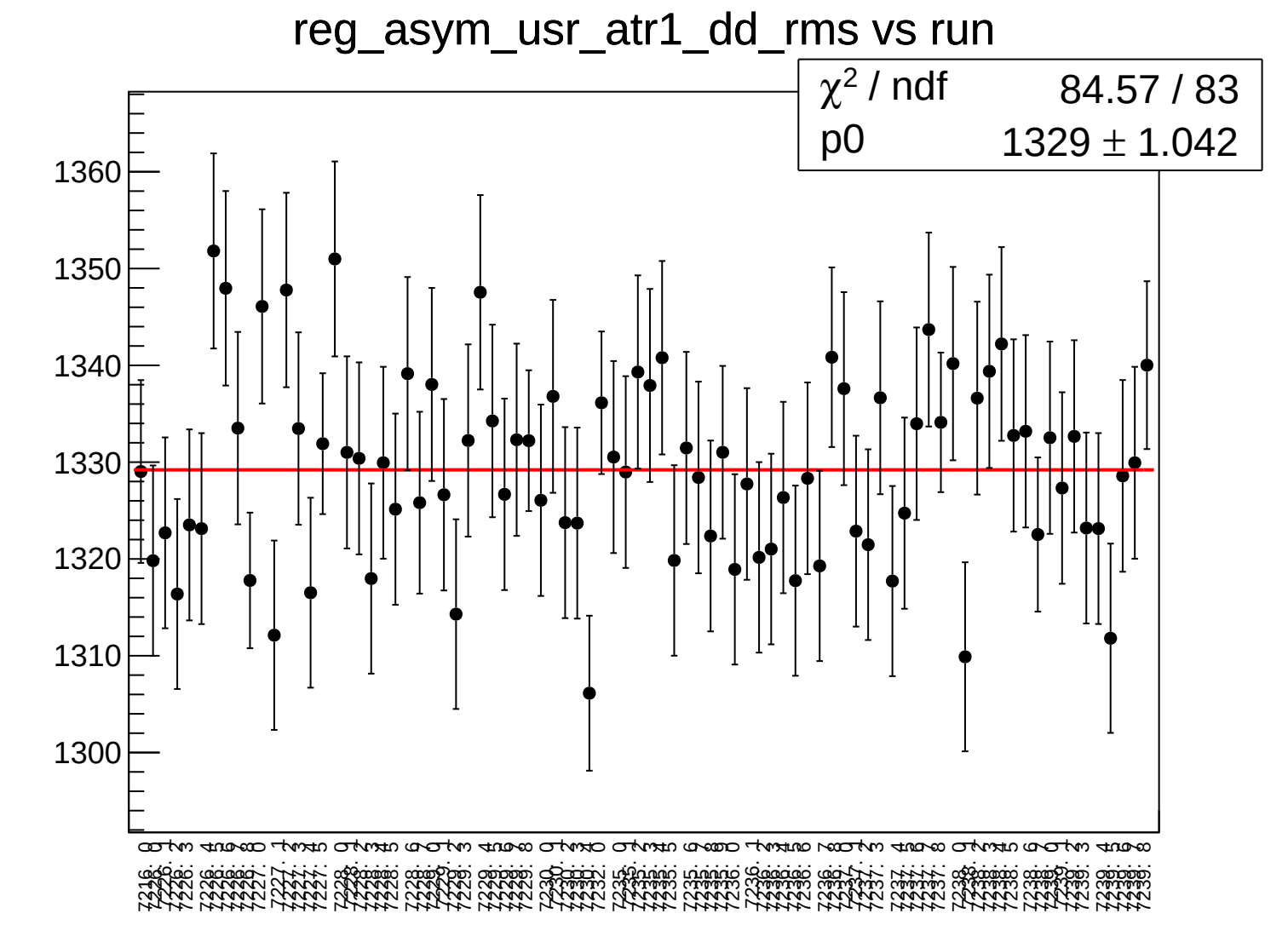

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.093e+05 / 83
p0 52.43 ± 0.04257
100
90
80
70
60
50
40
30
20

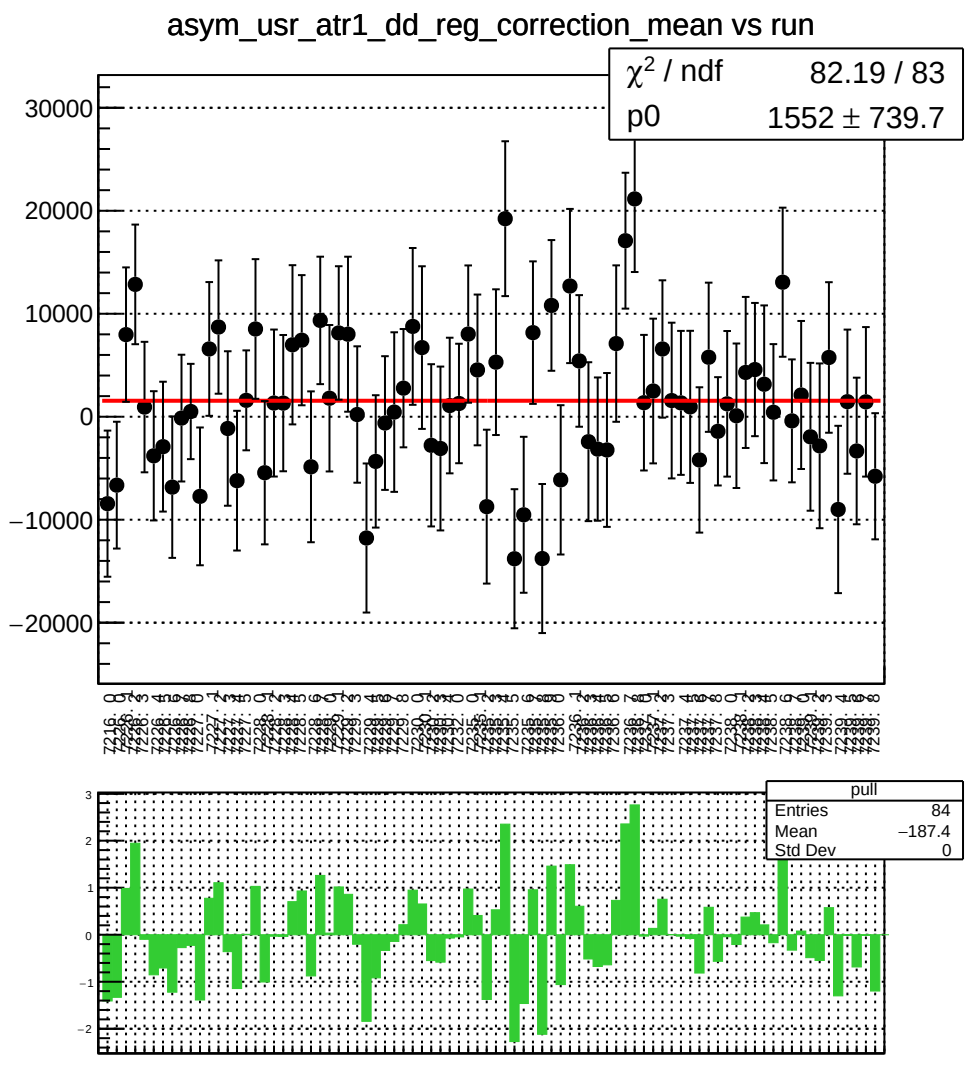

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.69 / 83
p0 3.669e−14 ± 1.916e−14
pull
Entries 84
Mean 27.98
Std Dev 17.75
pull1D
Entries 84
Mean −0.1376
Std Dev 1.036

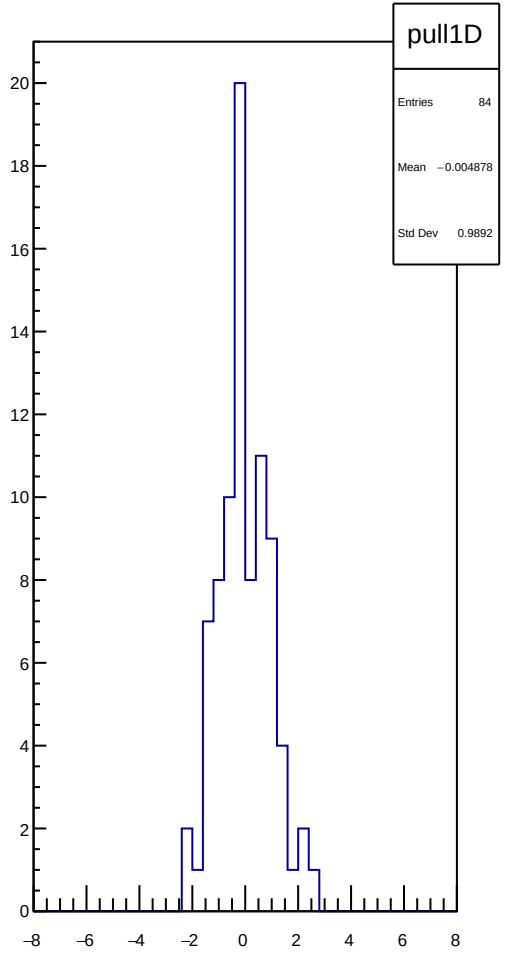

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.521e+05 / 83
p0 1.404e−11 ± 1.355e−14
80
70
60
50
40
30
20
10

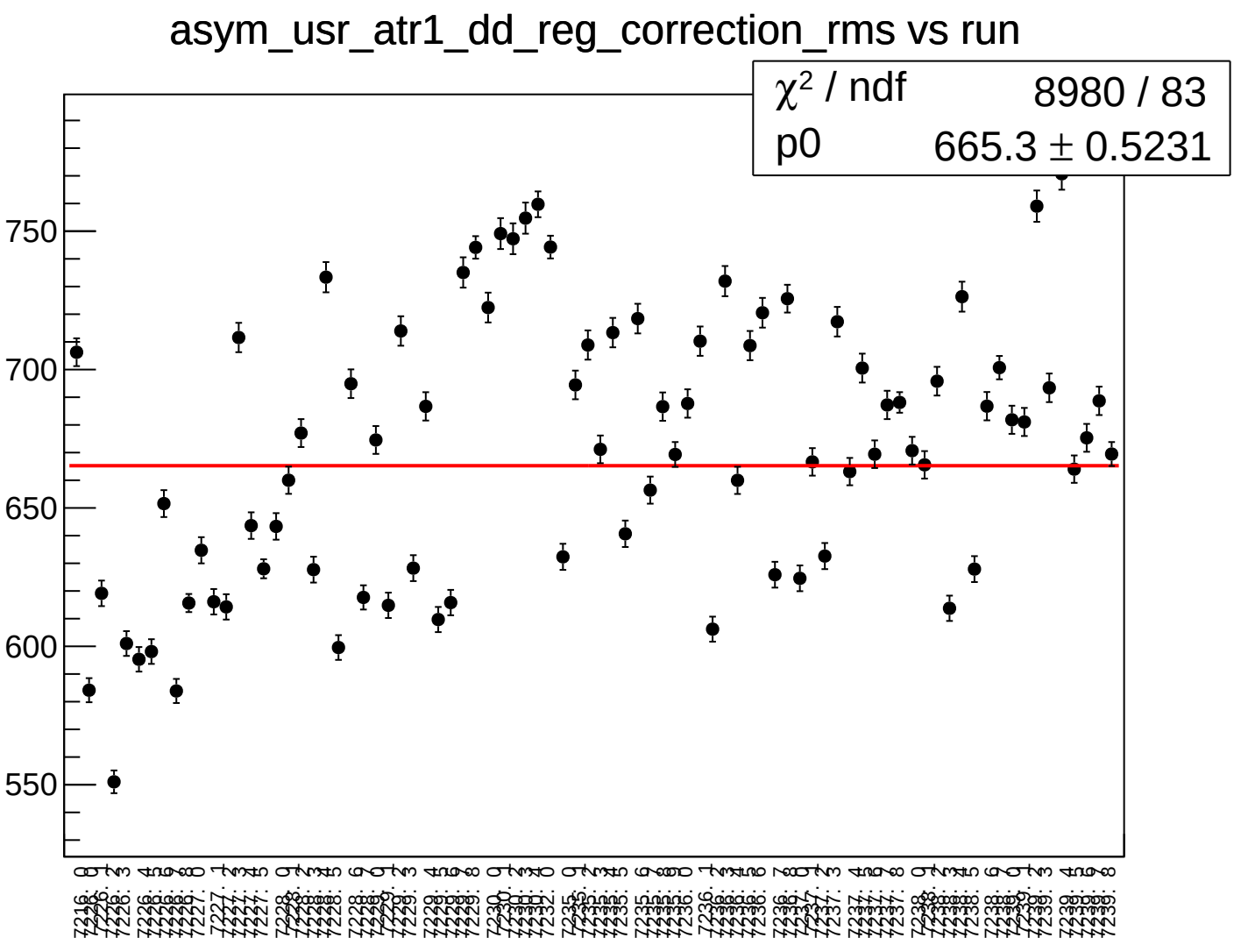

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 91.68 / 83
p0 544.8 ± 1474
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 771.3
Std Dev 0
2
1
0
−1
−2

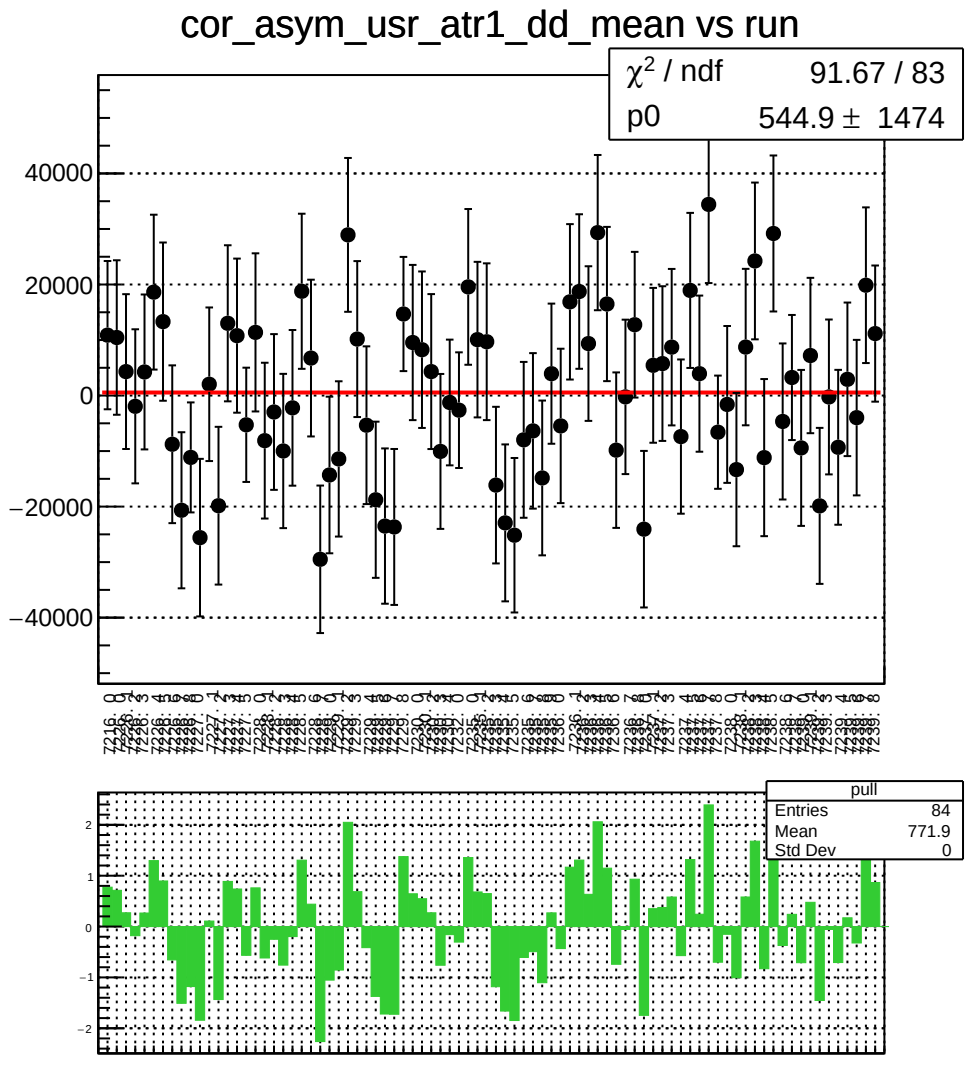

pull1D
Entries 84
Mean 0.004156
Std Dev 1.045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

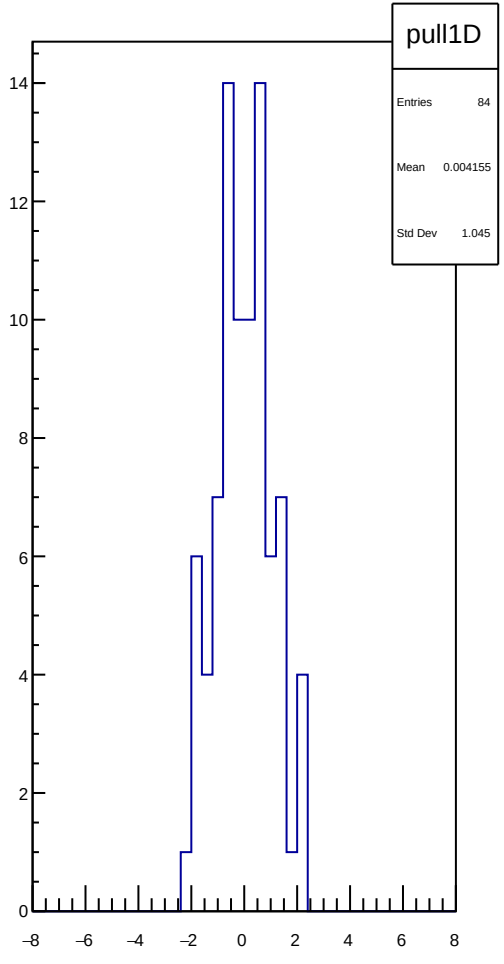

reg_asym_usr_atr1_dd_rms vs run
χ² / ndf 84.57 / 83
p0 1329 ± 1.042
1360
1350
1340
1330
1320
1310
1300

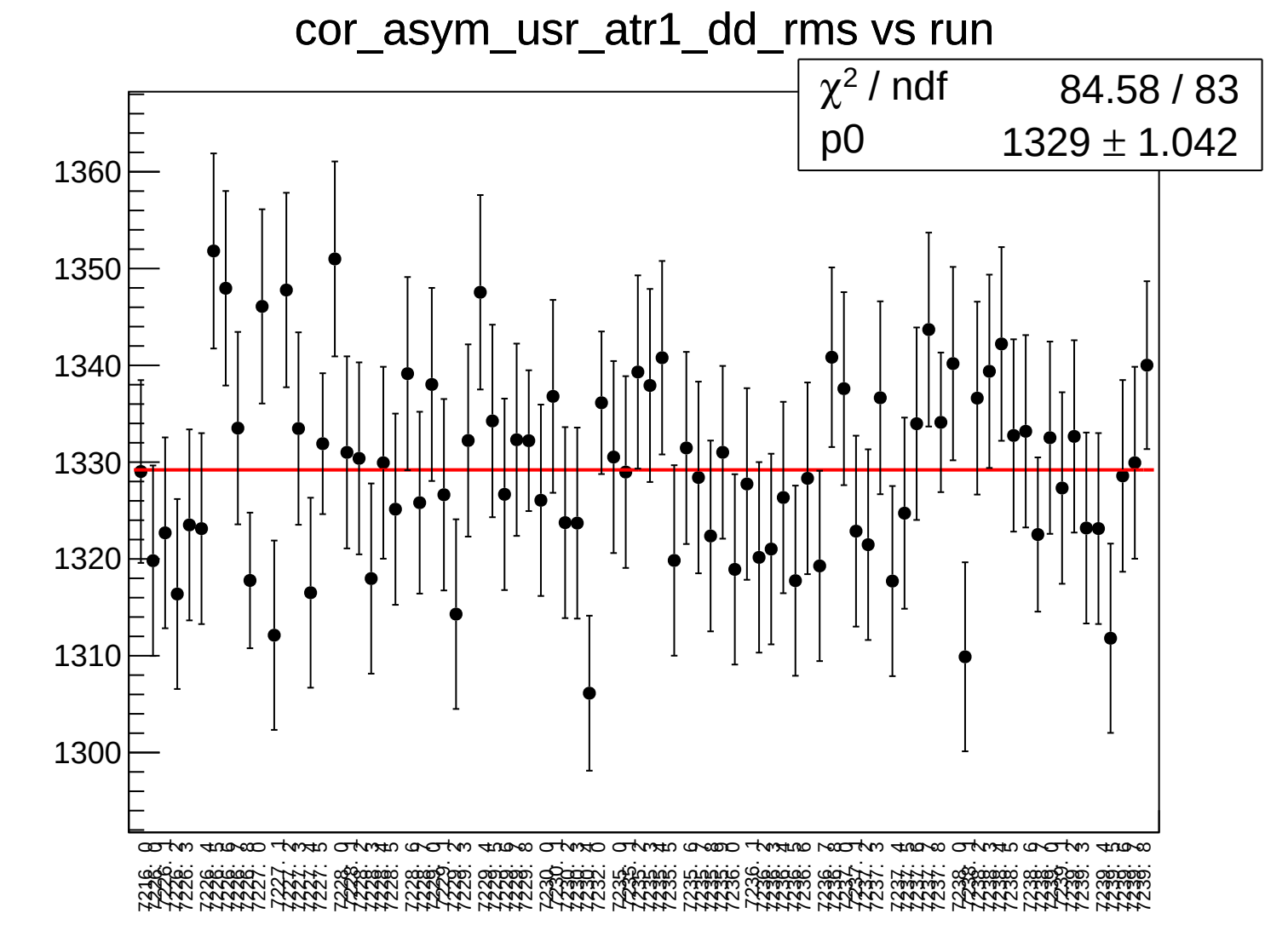

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 82.19 / 83
p0 1552 ± 739.7
30000
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −187.4
Std Dev 0
3
2
1
0
−1
−2

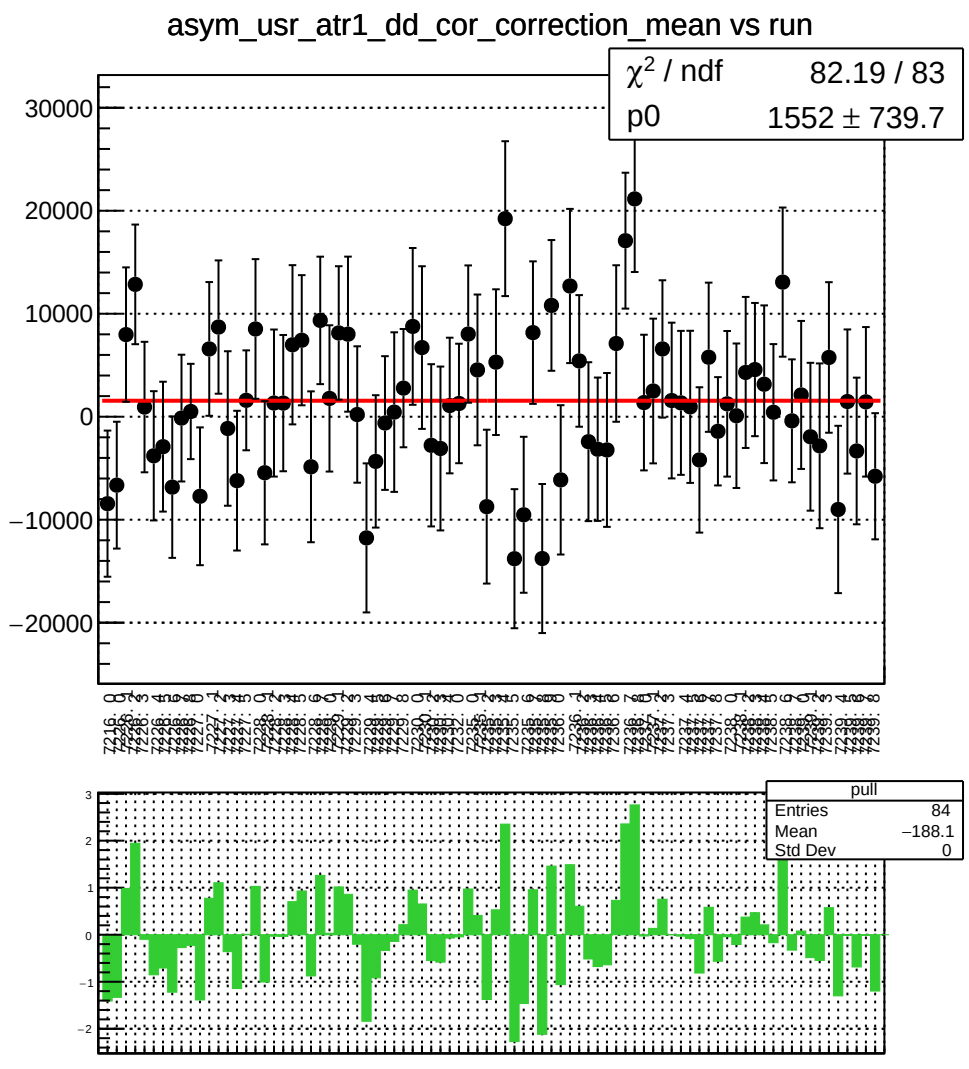

pull1D
Entries 84
Mean −0.004878
Std Dev 0.9892
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

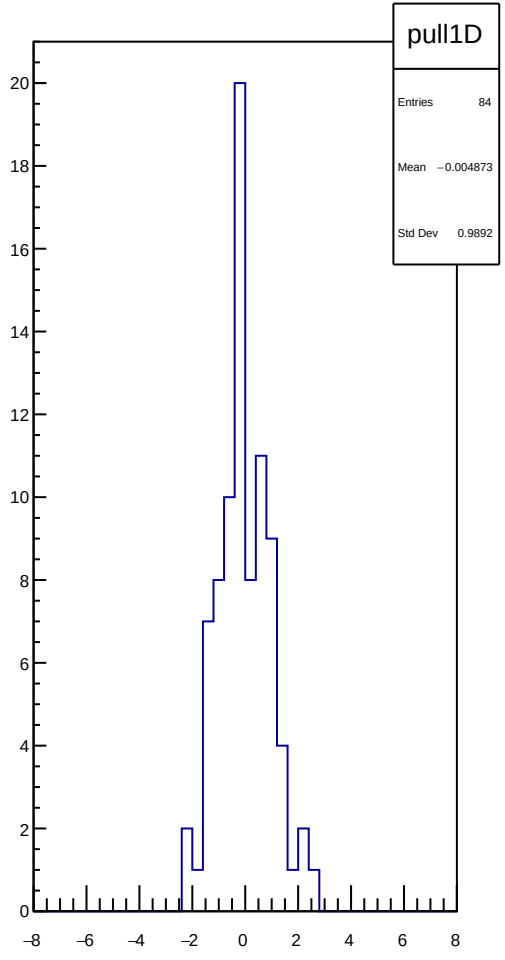

asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 8980 / 83
p0 665.3 ± 0.5231
750
700
650
600
550

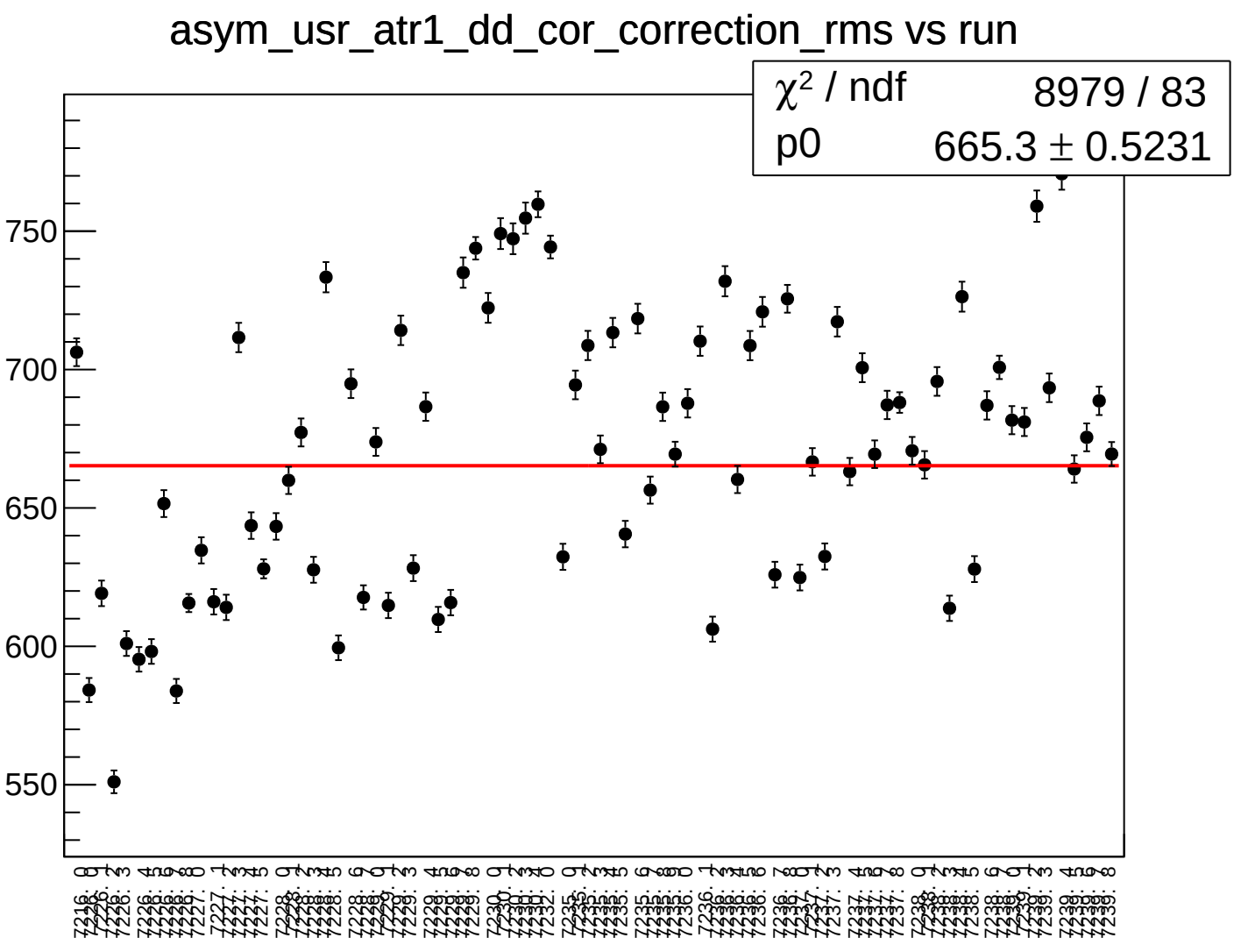

cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 91.67 / 83
p0 544.9 ± 1474
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 771.9
Std Dev 0
2
1
0
−1
−2

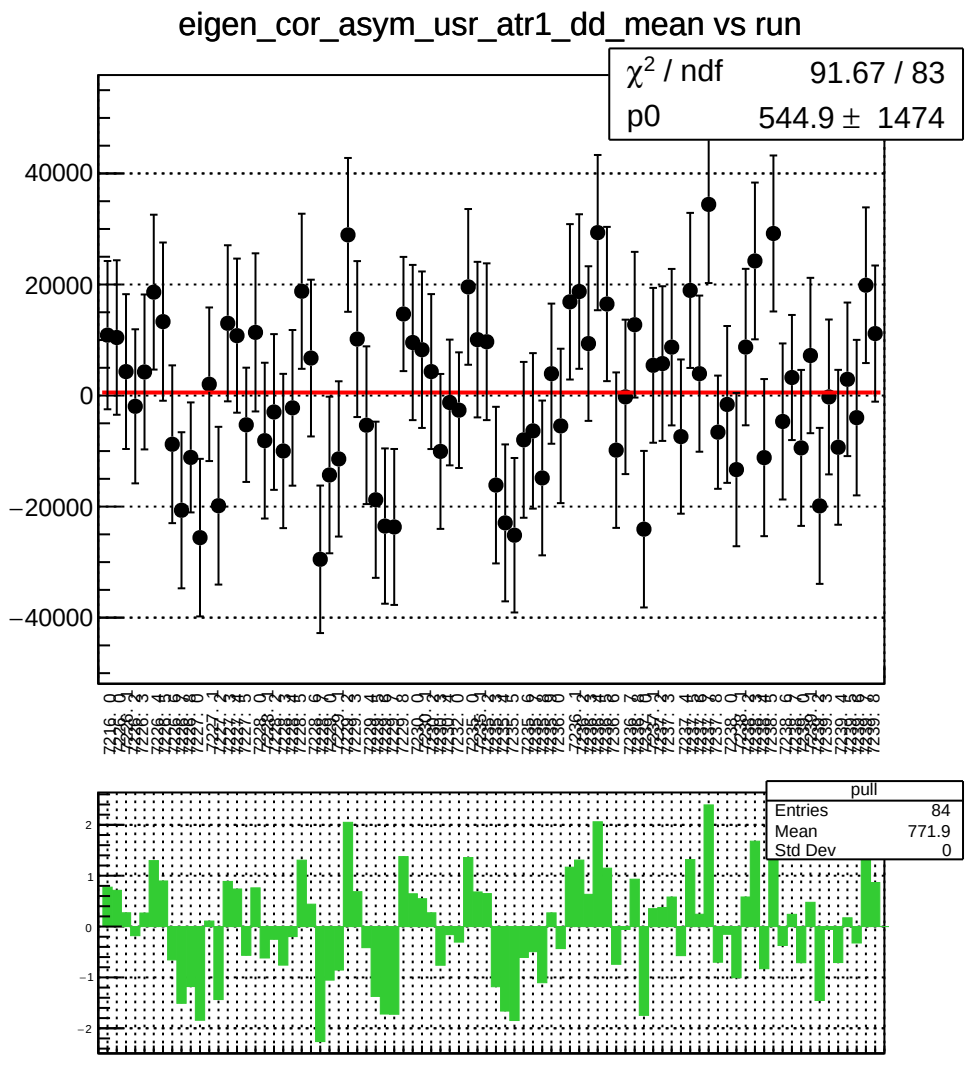

pull1D
Entries 84
Mean 0.004155
Std Dev 1.045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

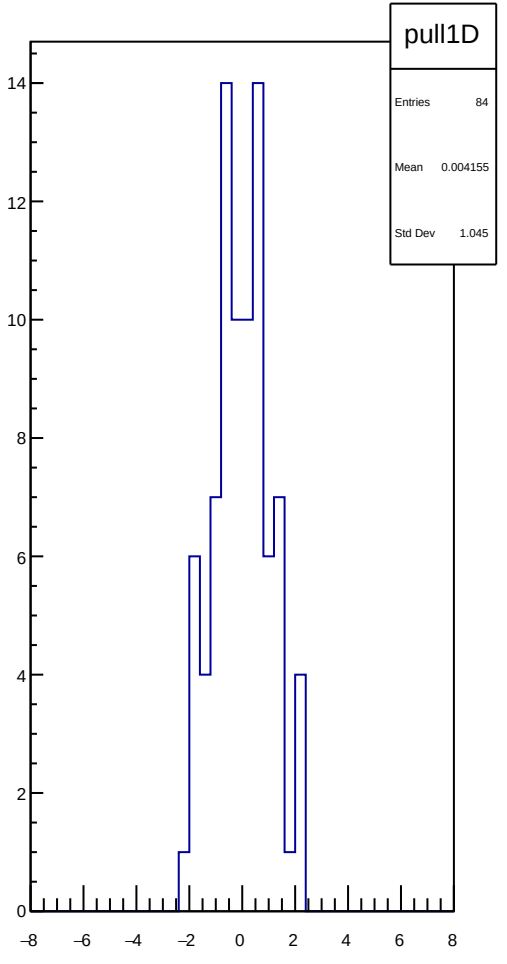

cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 84.58 / 83
p0 1329 ± 1.042
1360
1350
1340
1330
1320
1310
1300

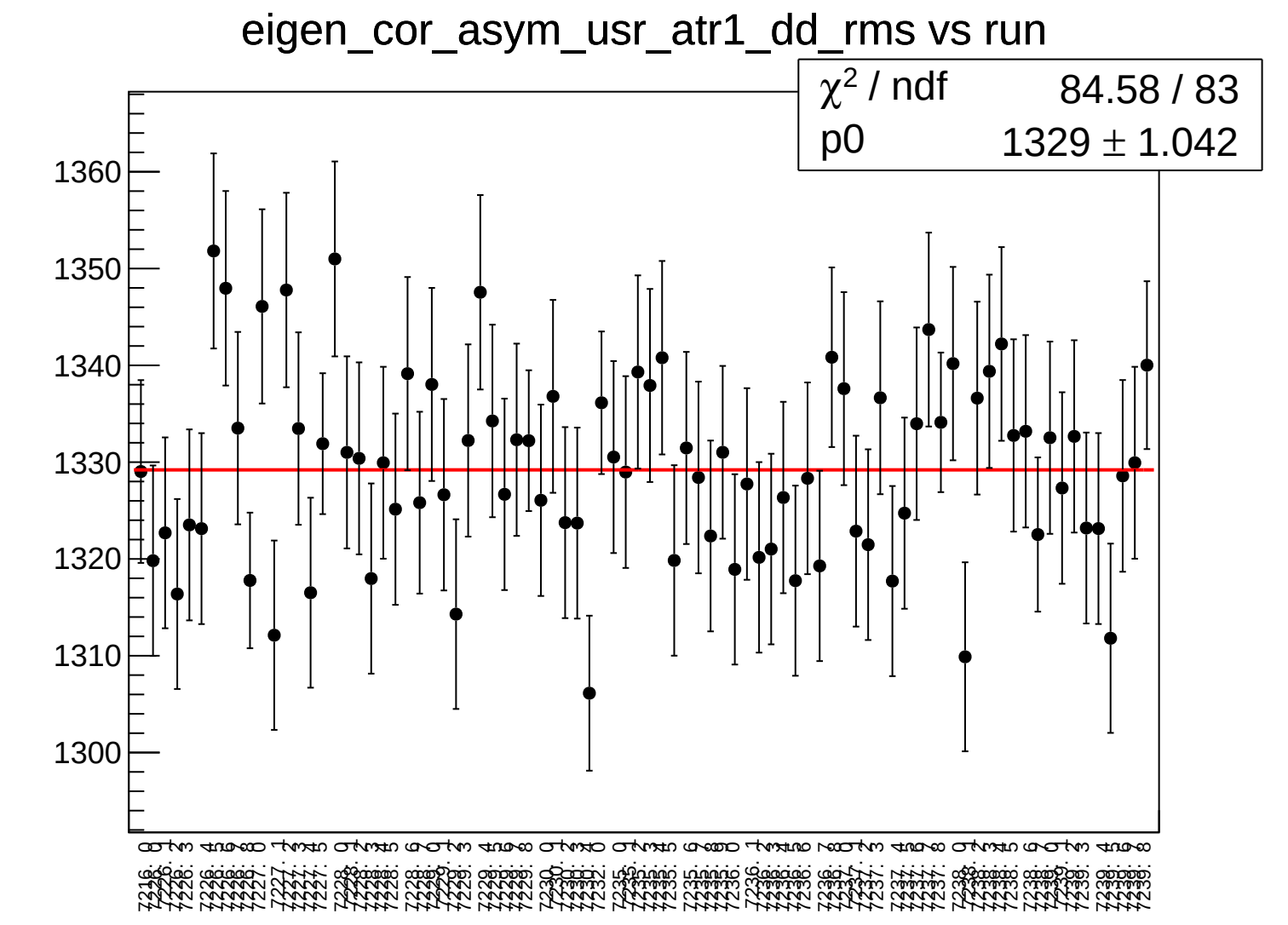

asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 82.19 / 83
p0 1552 ± 739.7
30000
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −188.1
Std Dev 0
3
2
1
0
−1
−2

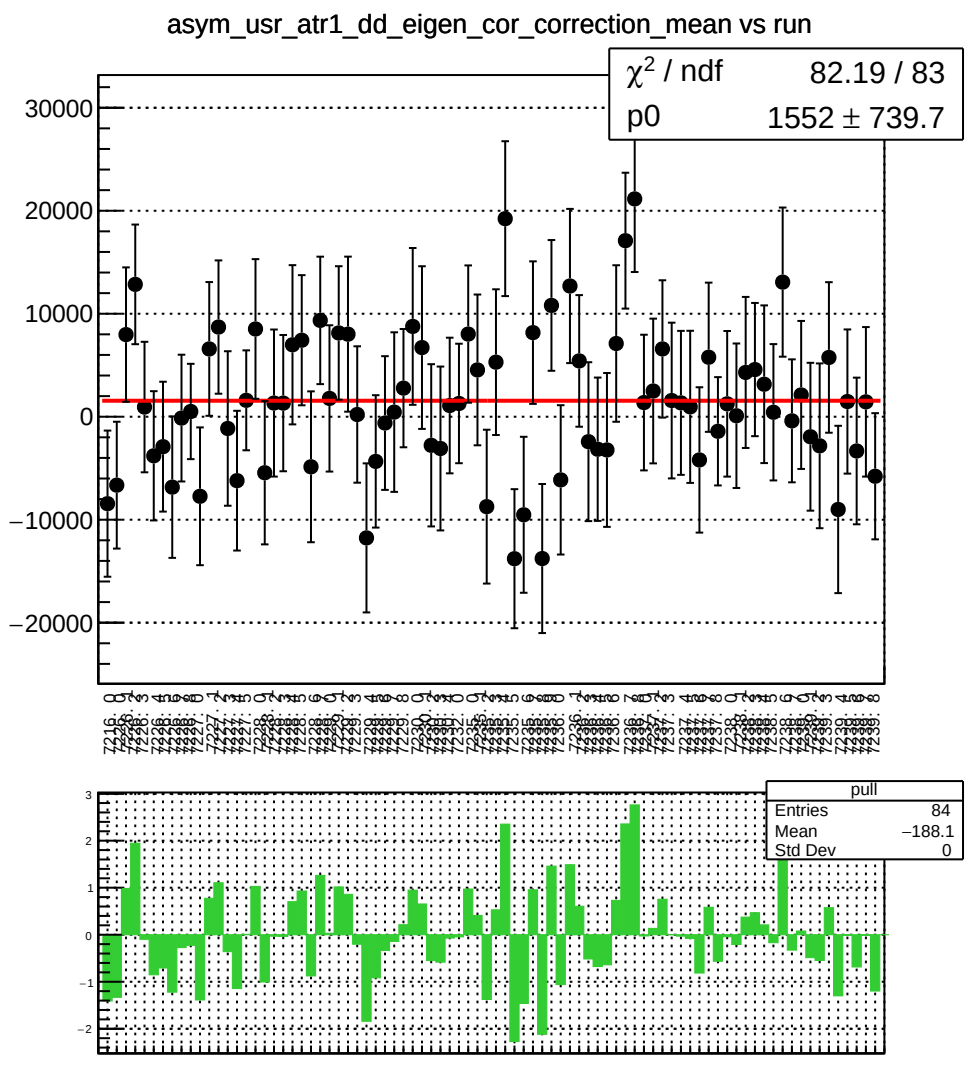

pull1D
Entries 84
Mean −0.004873
Std Dev 0.9892
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

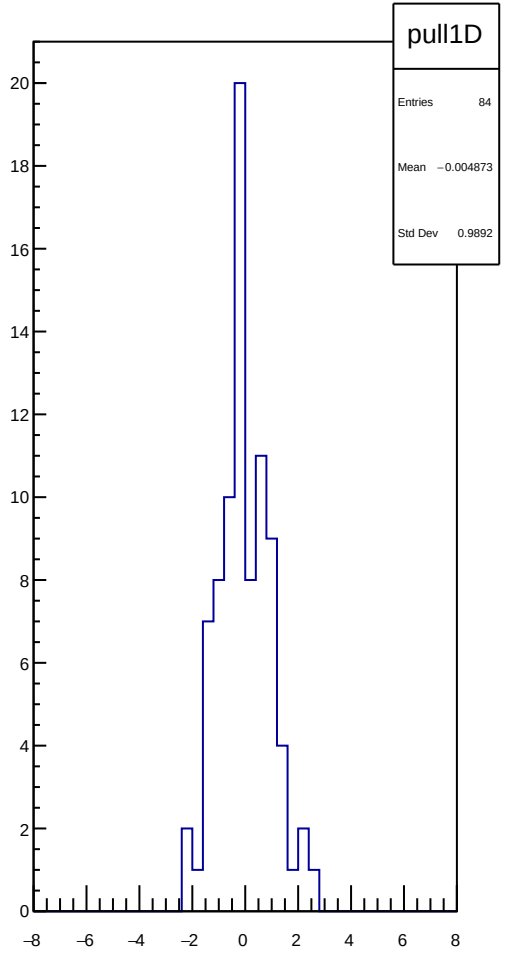

asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 8979 / 83
p0 665.3 ± 0.5231
750
700
650
600
550

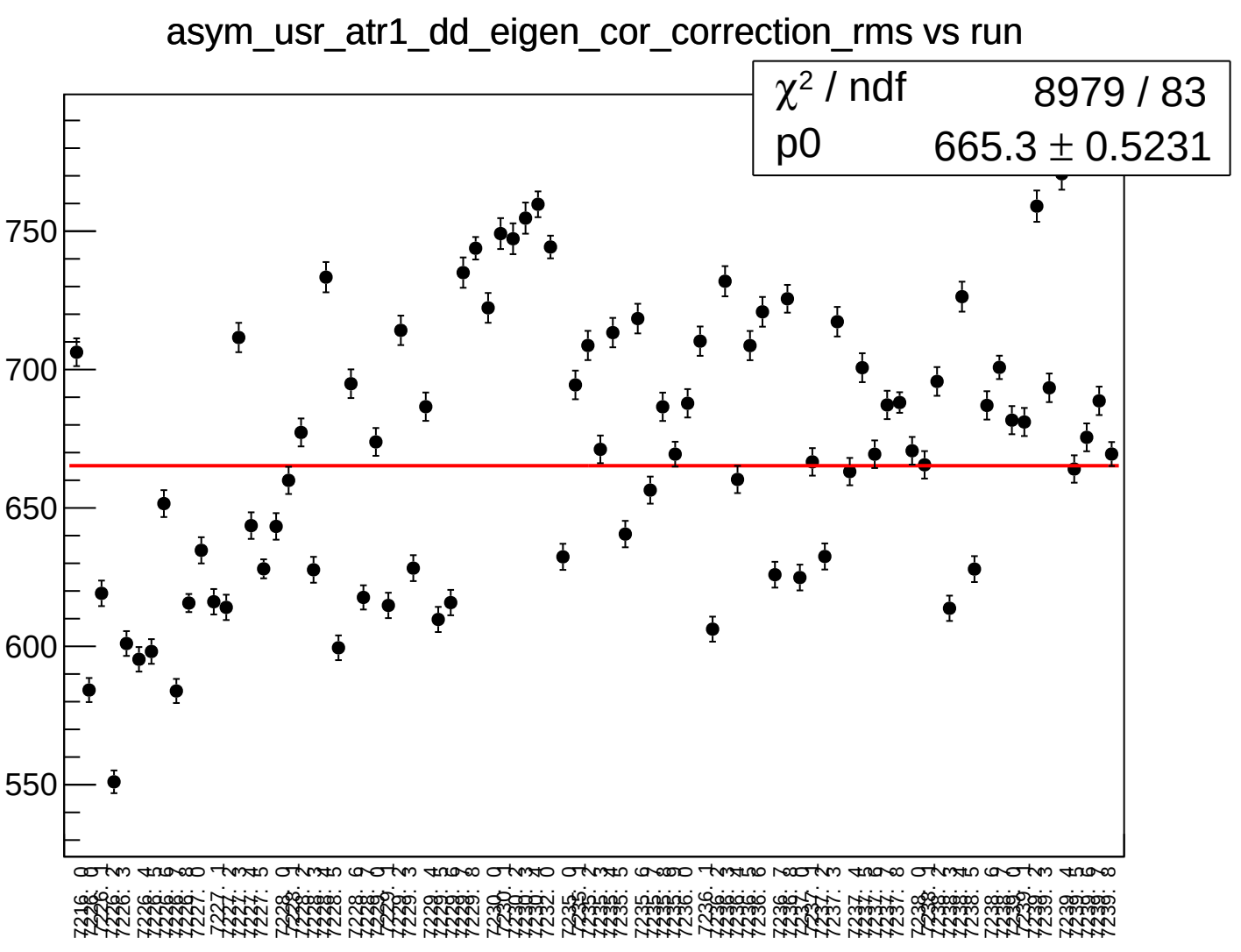

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 91.67 / 83
p0 544.9 ± 1474
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 771.9
Std Dev 0
2
1
0
−1
−2

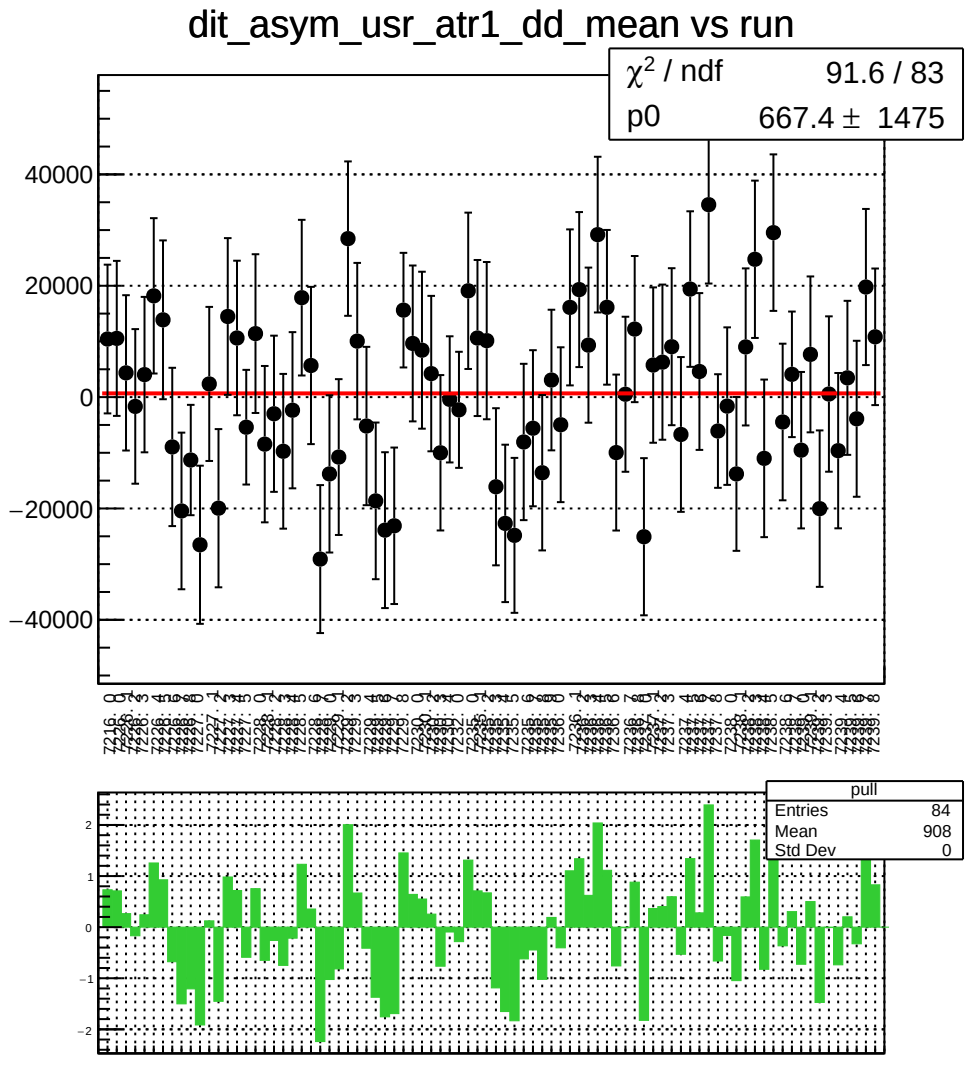

pull1D
Entries 84
Mean 0.004155
Std Dev 1.045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

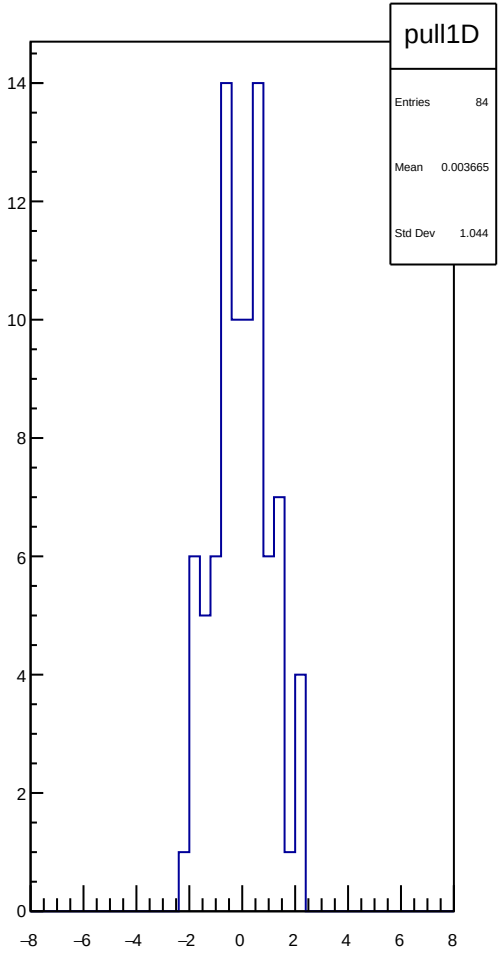

eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 84.58 / 83
p0 1329 ± 1.042
1360
1350
1340
1330
1320
1310
1300

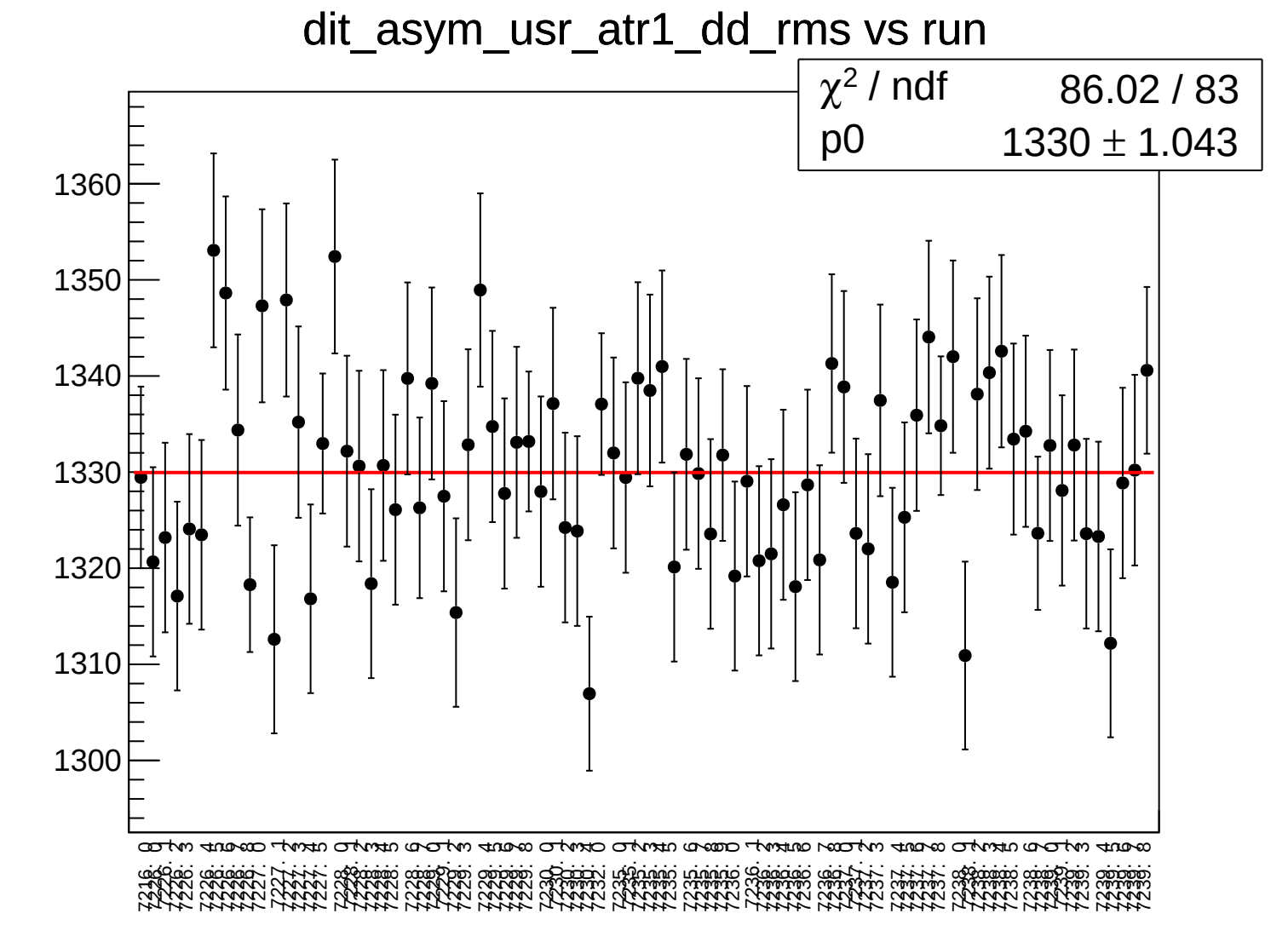

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 82.19 / 83
p0 1552 ± 739.7
30000
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −188.1
Std Dev 0
3
2
1
0
−1
−2

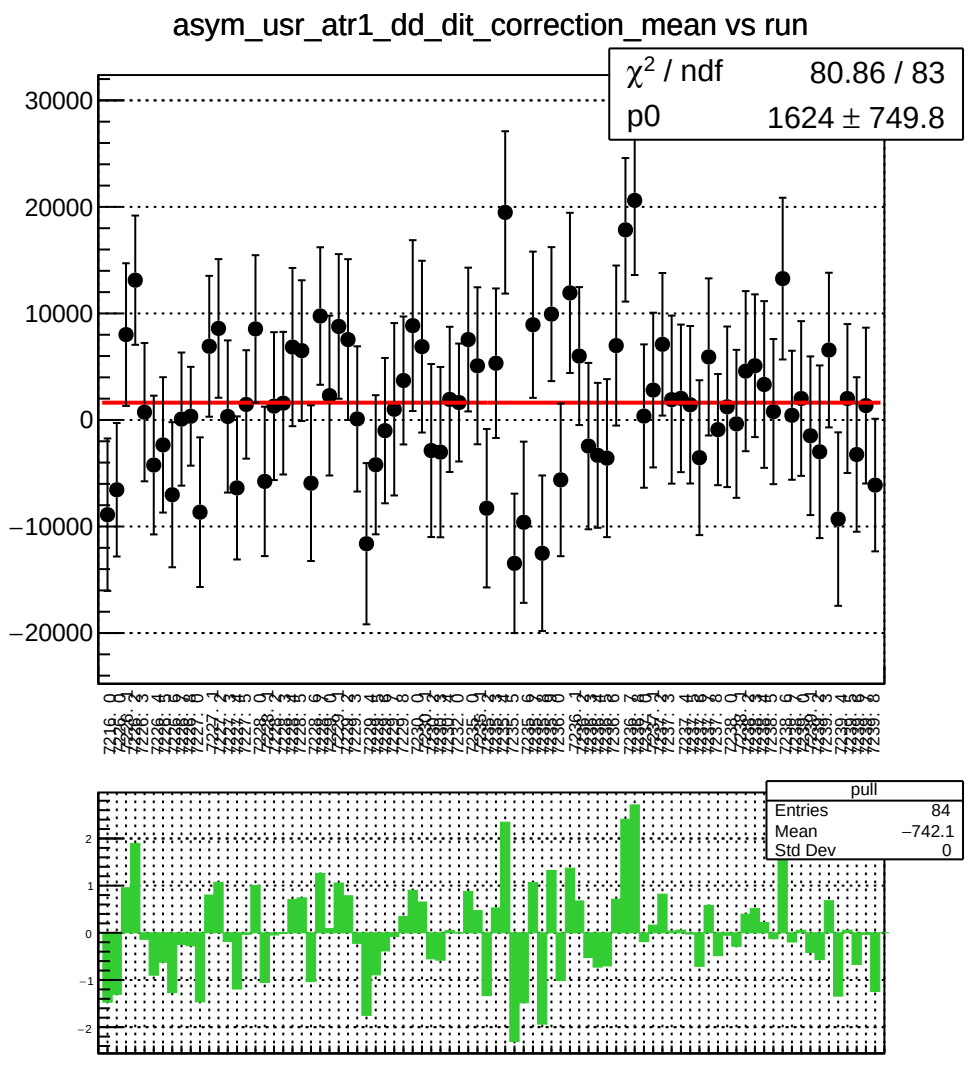

pull1D
Entries 84
Mean −0.004873
Std Dev 0.9892
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

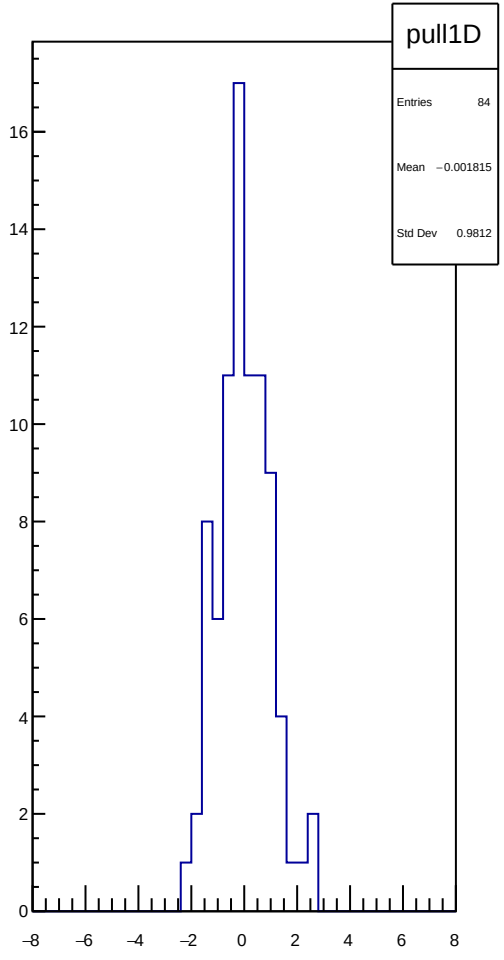

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 8979 / 83
p0 665.3 ± 0.5231
750
700
650
600
550

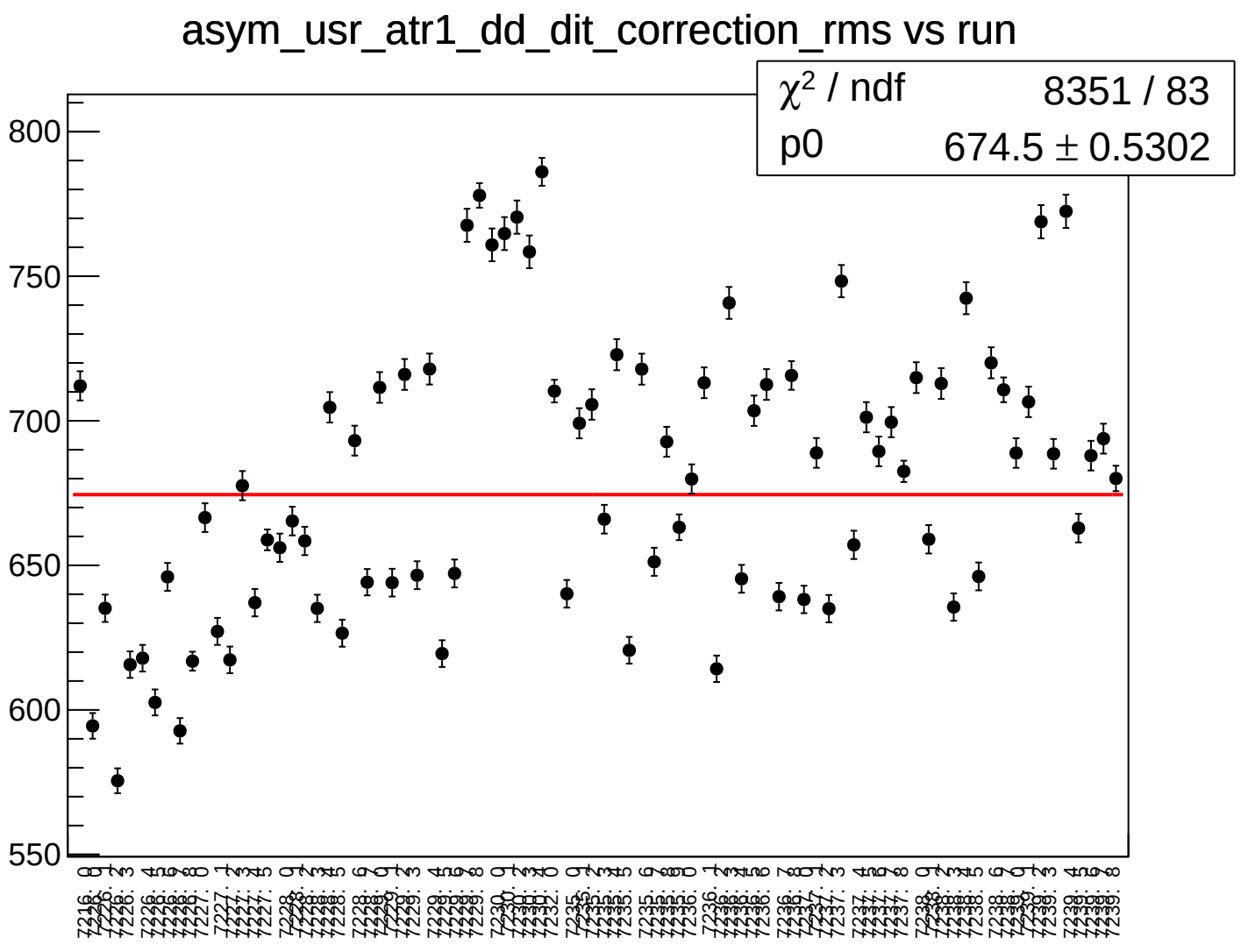

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 91.6 / 83
p0 667.4 ± 1475
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 908
Std Dev 0
2
1
0
−1
−2

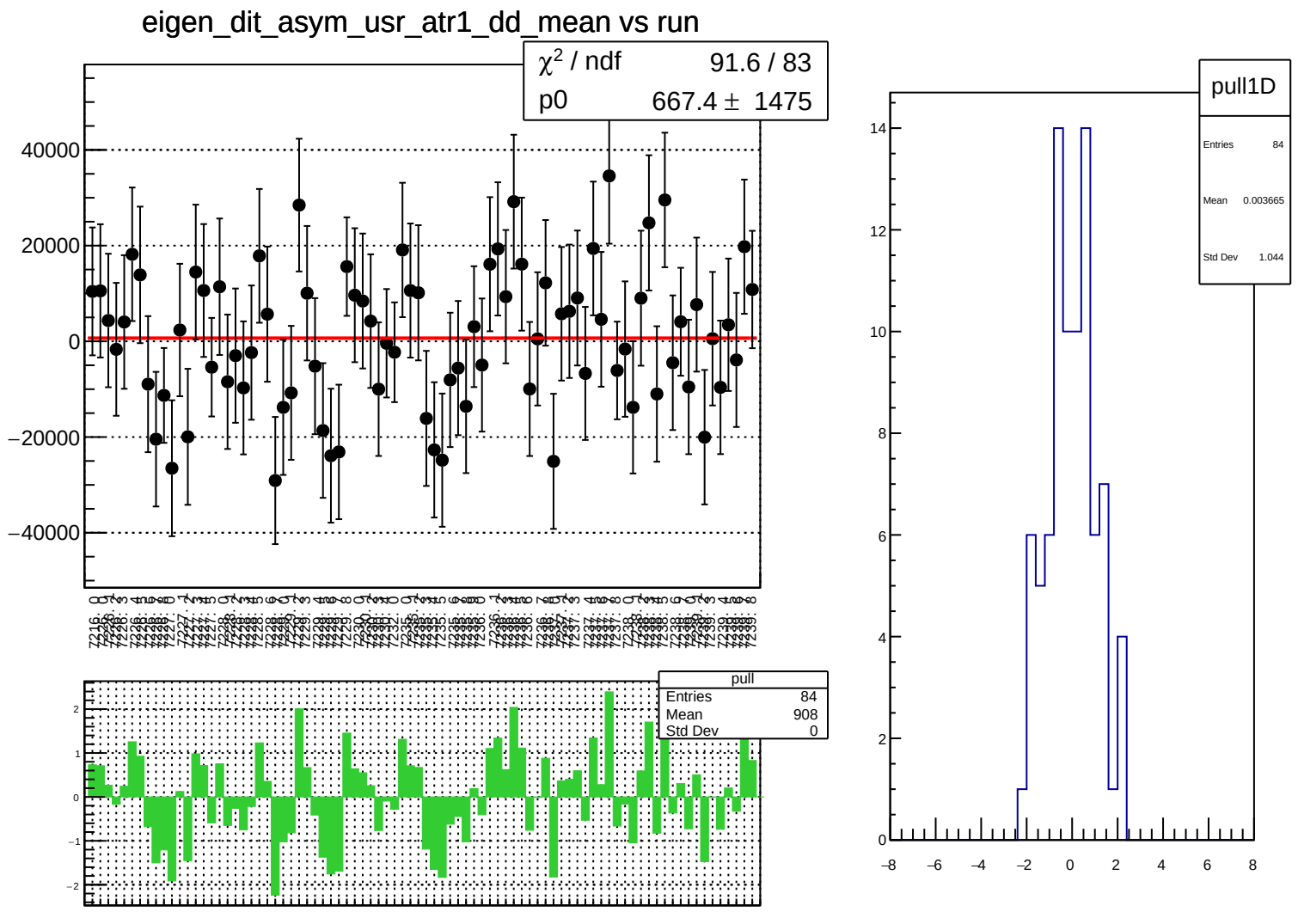

pull1D
Entries 84
Mean 0.003665
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

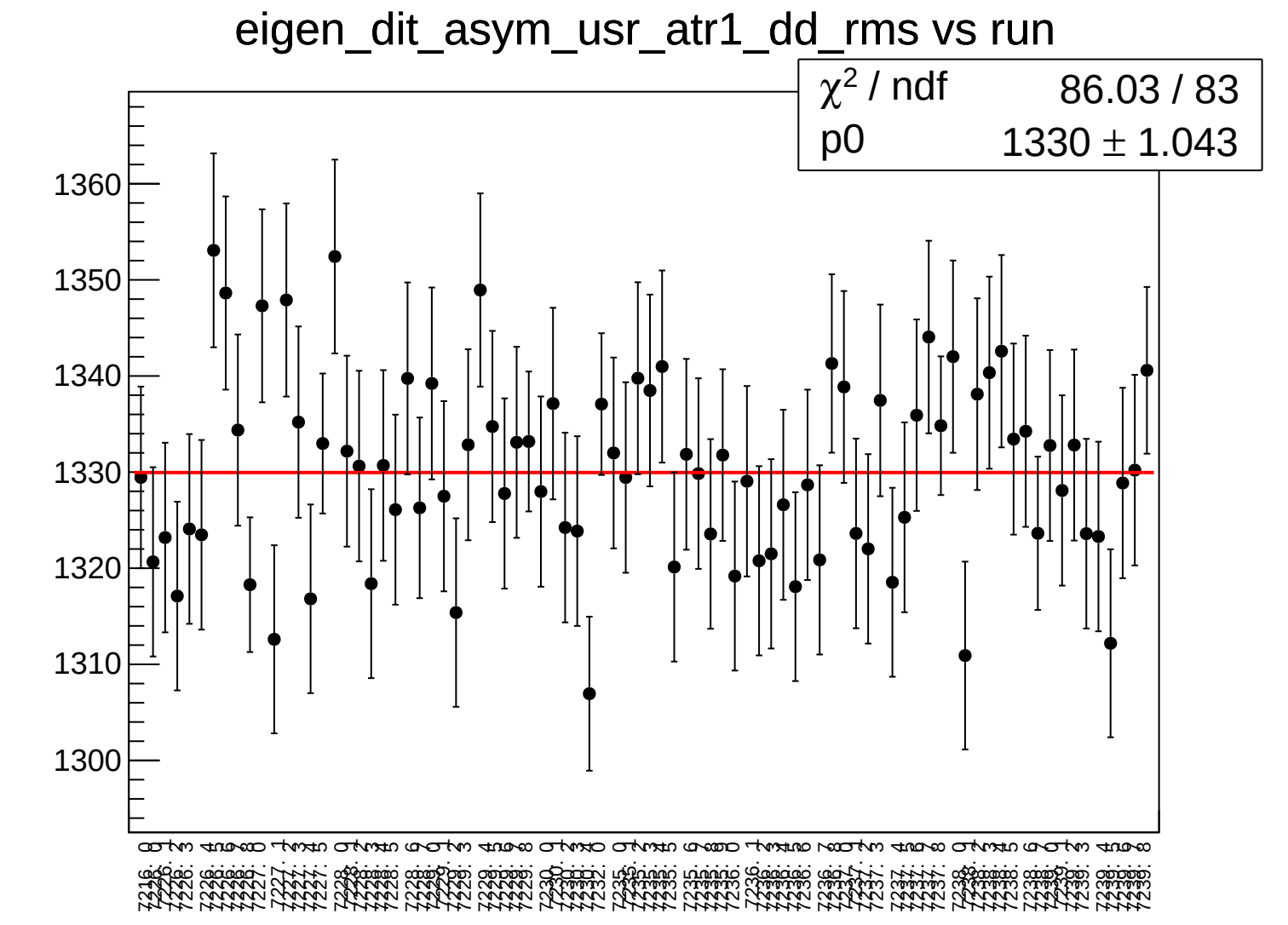

dit_asym_usr_atr1_dd_rms vs run
χ^2 / ndf 86.02 / 83
p0 1330 ± 1.043
1360
1350
1340
1330
1320
1310
1300

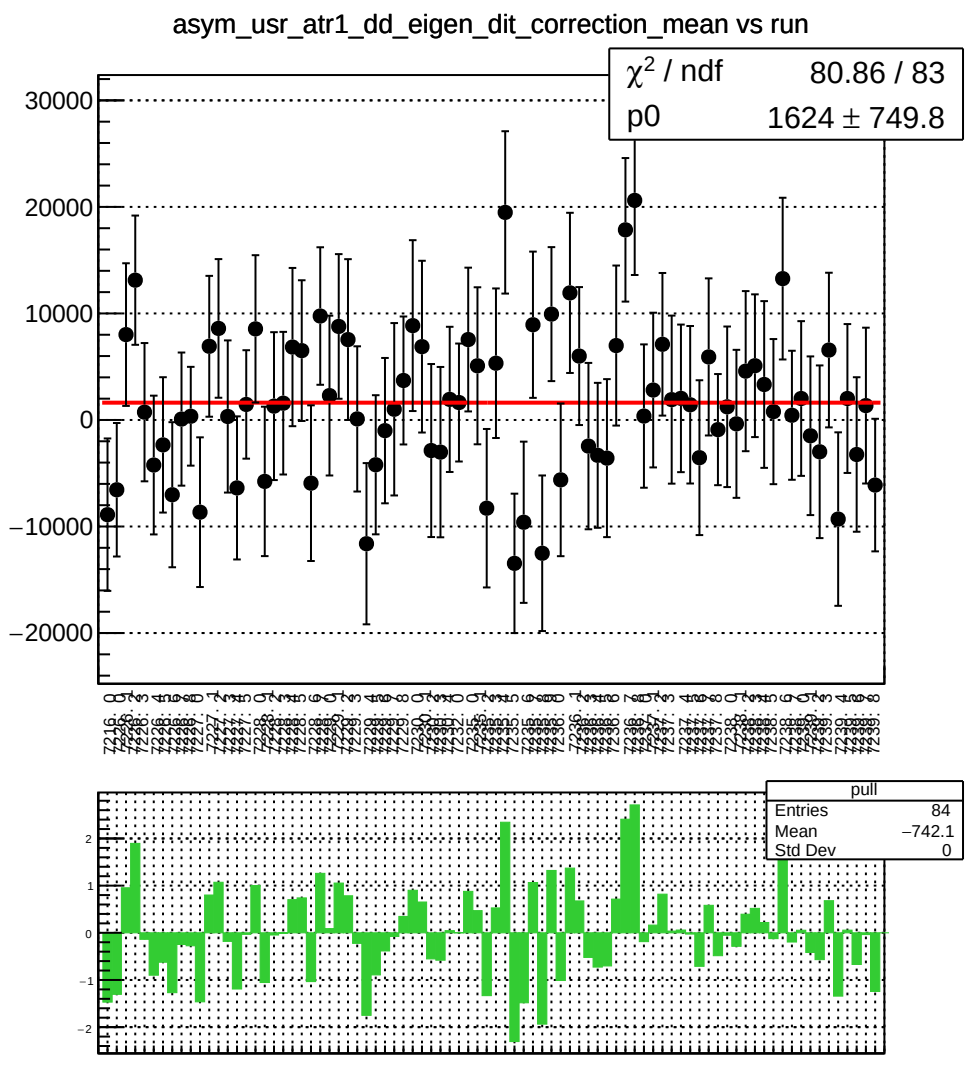

asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 80.86 / 83
p0 1624 ± 749.8
30000
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −742.1
Std Dev 0
2
1
0
−1
−2

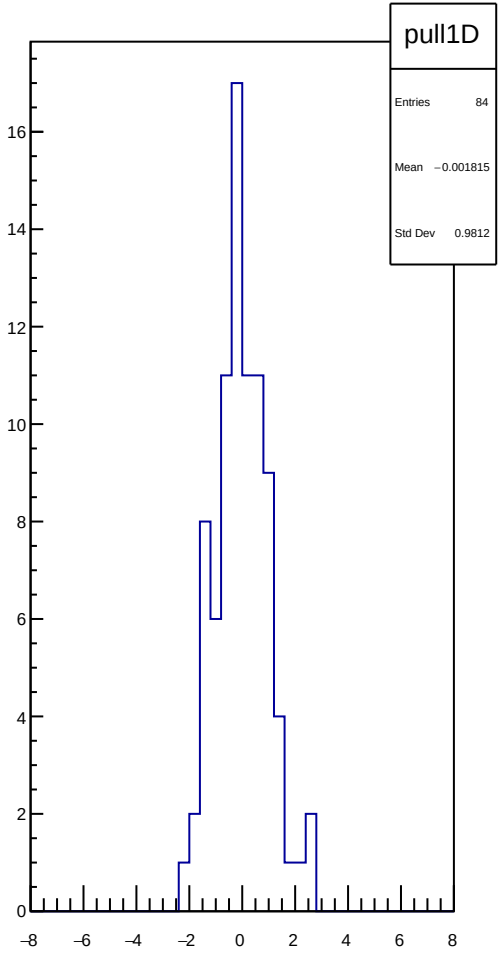

pull1D
Entries 84
Mean −0.001815
Std Dev 0.9812
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

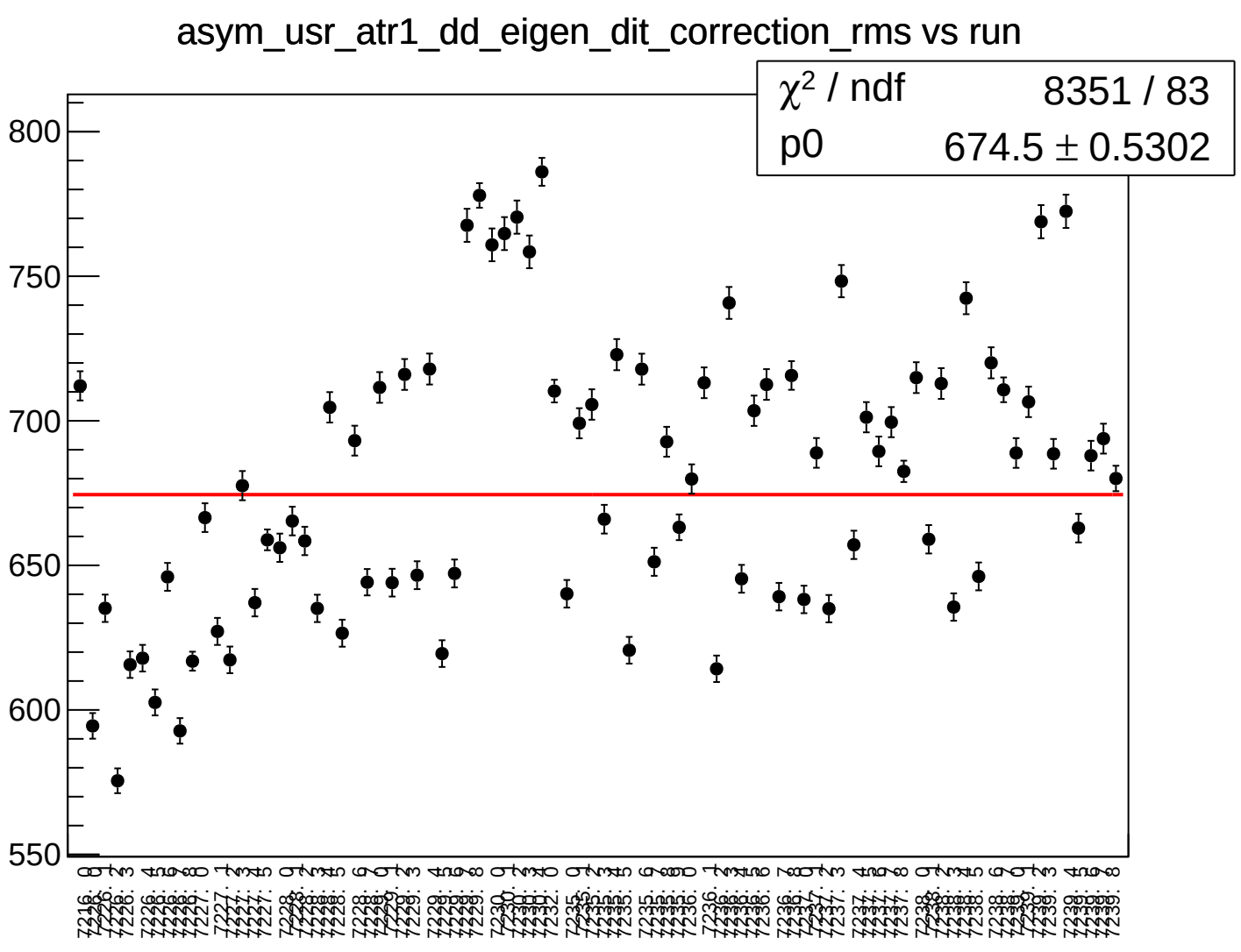

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 8351 / 83
p0 674.5 ± 0.5302
800
750
700
650
600
550

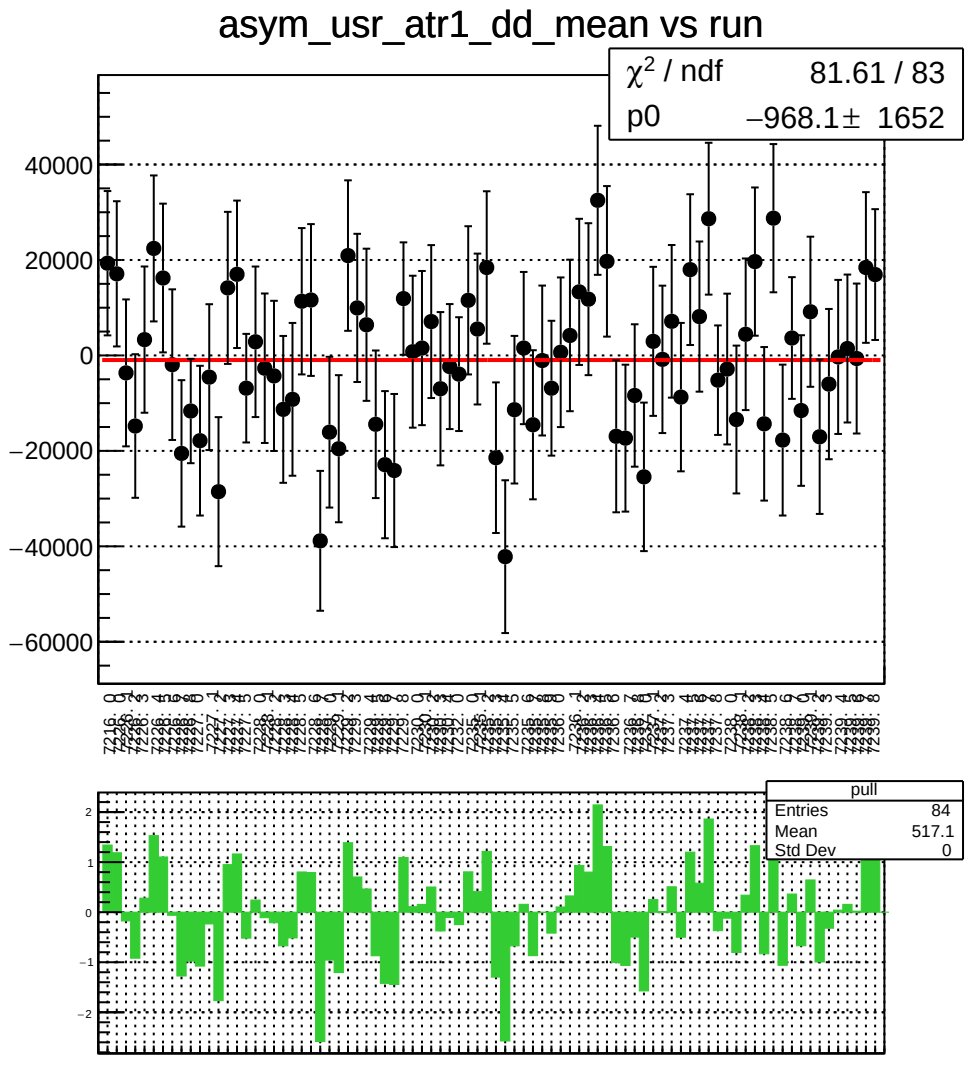

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 91.6 / 83
p0 667.4 ± 1475
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 908
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.003665
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

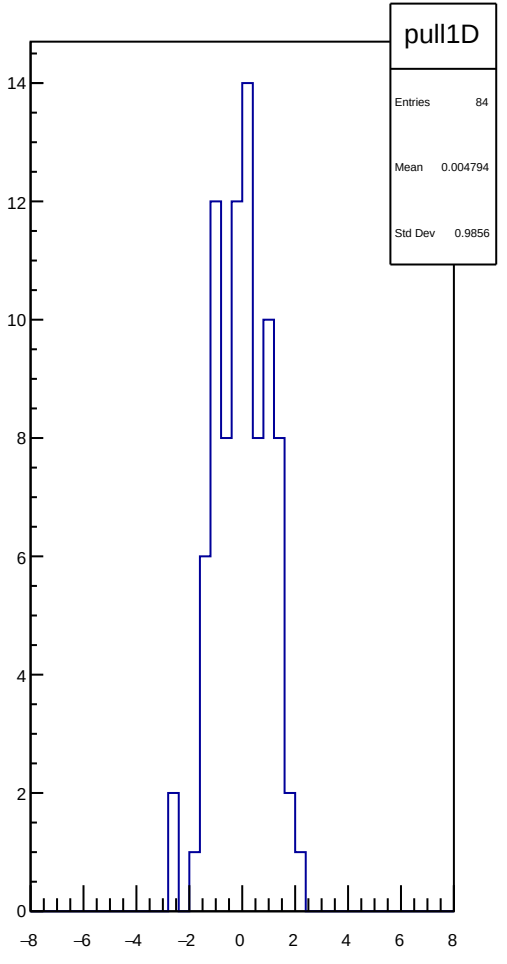

eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 86.03 / 83
p0 1330 ± 1.043
1360
1350
1340
1330
1320
1310
1300

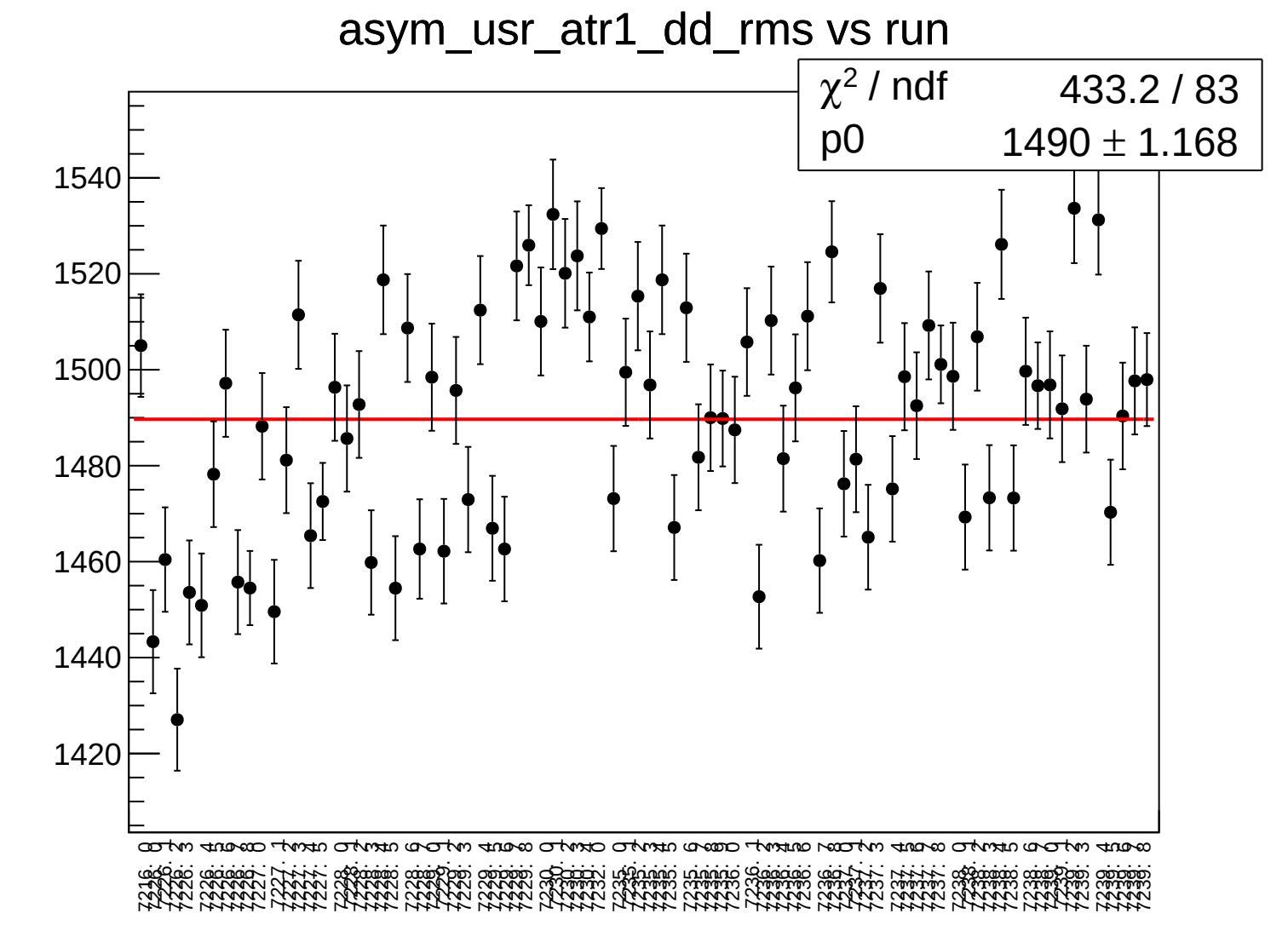

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 80.86 / 83
p0 1624 ± 749.8
30000
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −742.1
Std Dev 0
2
1
0
−1
−2

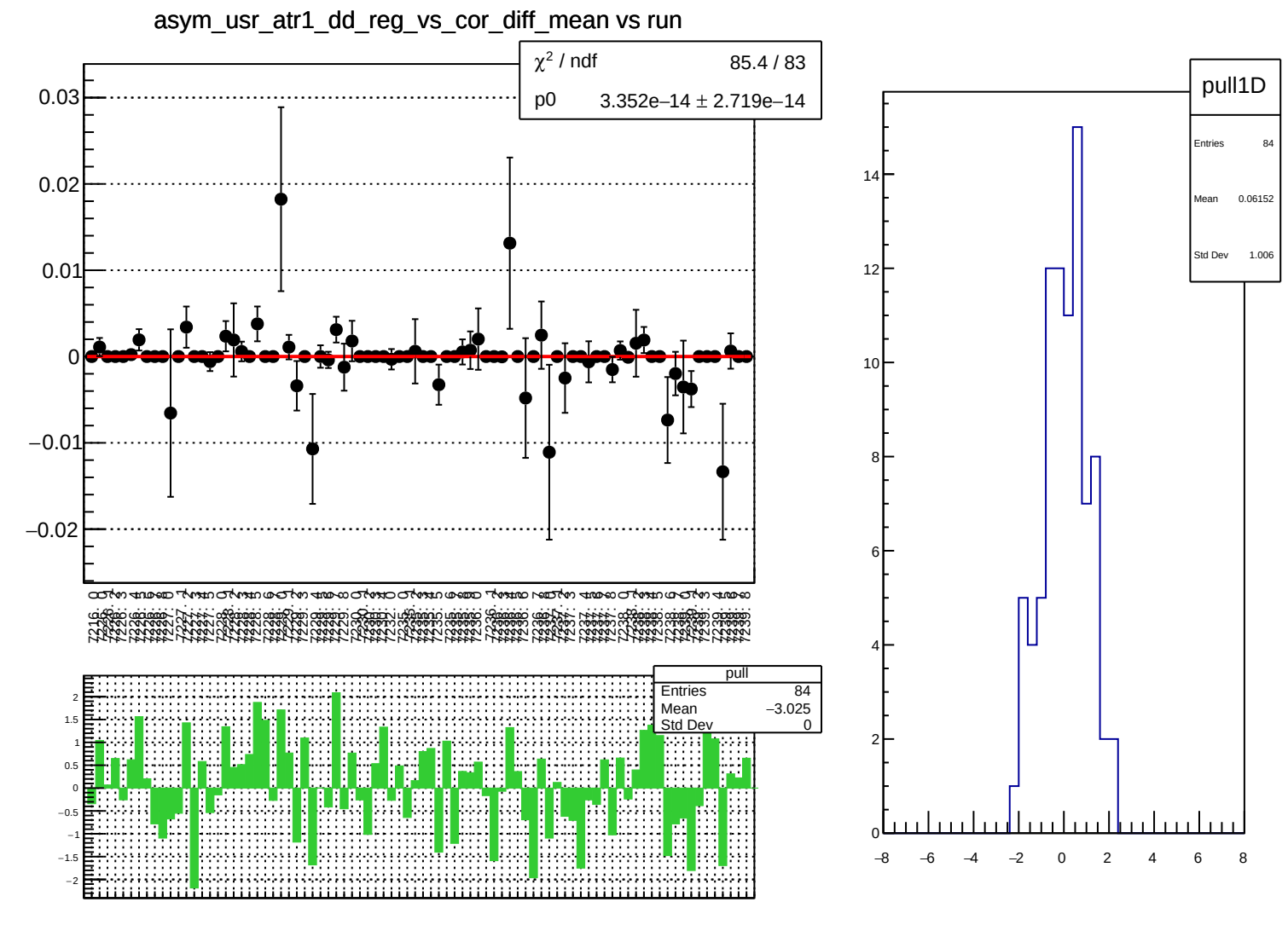

pull1D
Entries 84
Mean −0.001815
Std Dev 0.9812
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

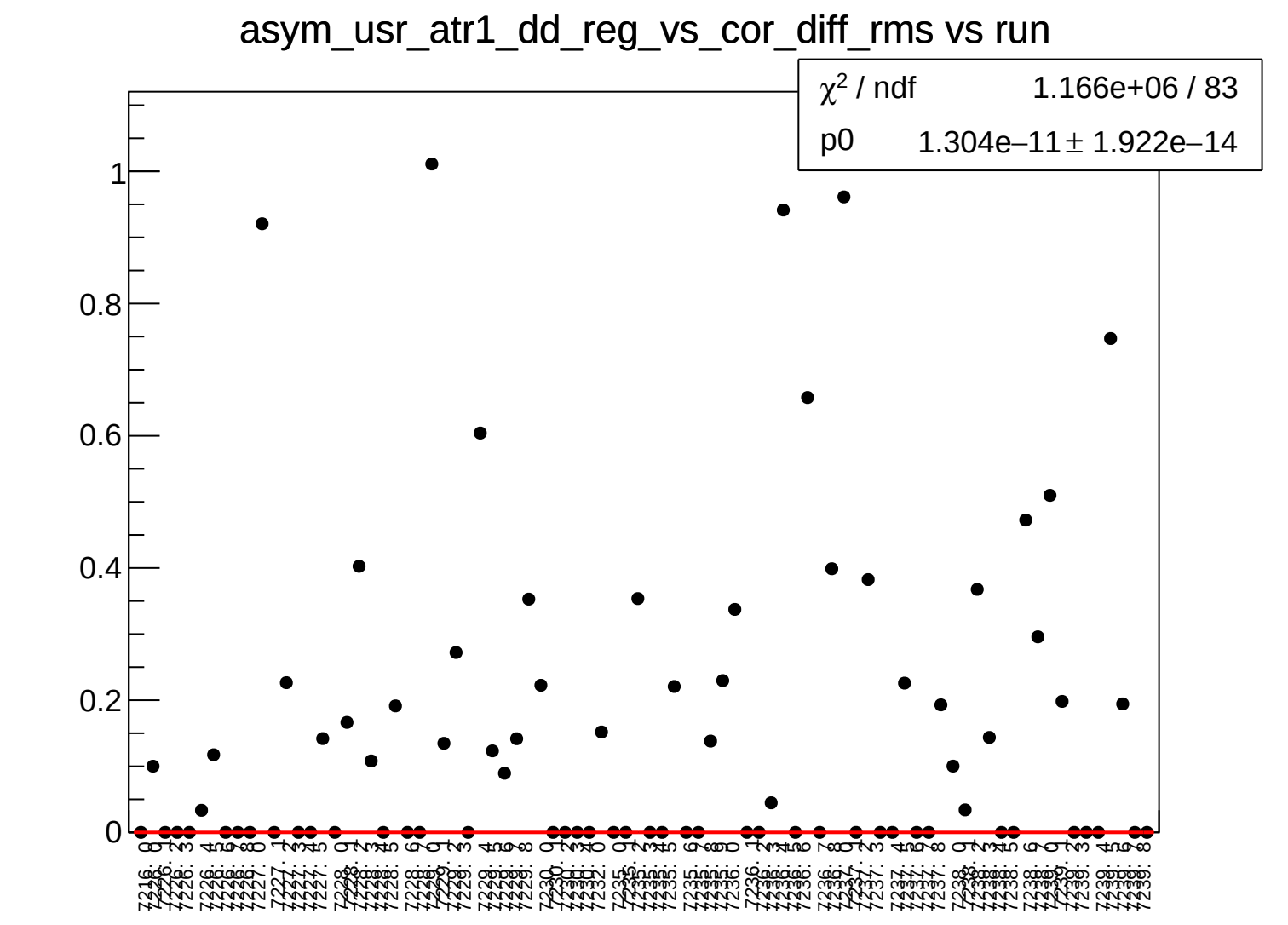

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 8351 / 83
p0 674.5 ± 0.5302
800
750
700
650
600
550

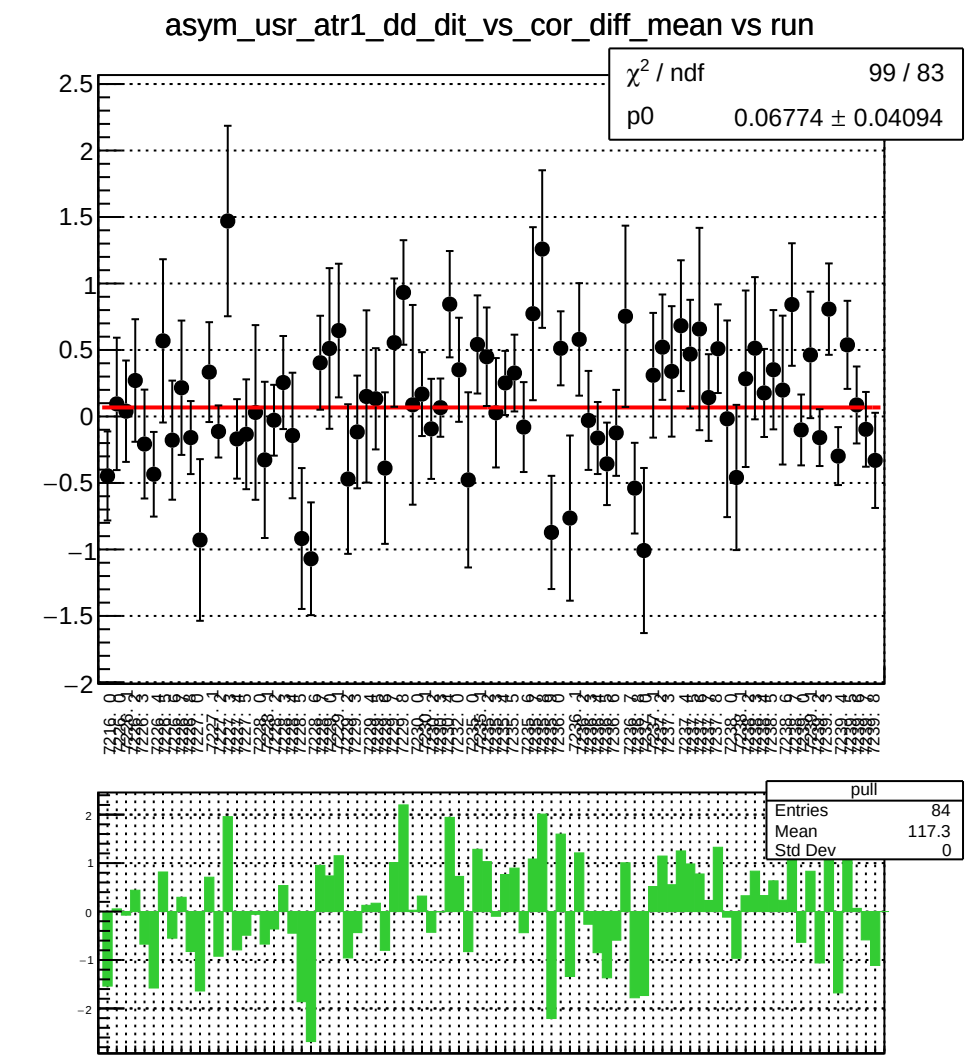

asym_usr_atr1_dd_mean vs run
χ² / ndf 81.61 / 83
p0 −968.1± 1652
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 517.1
Std Dev 0
2
1
0
−1
−2

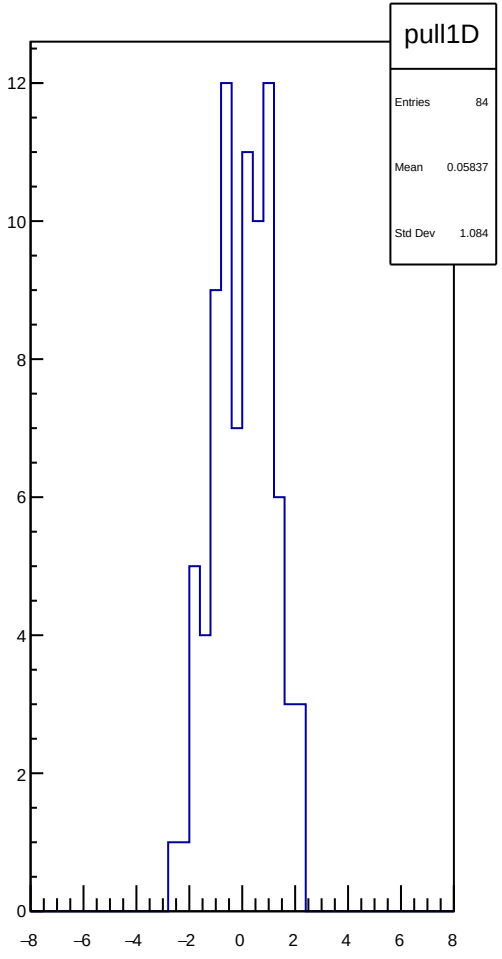

pull1D
Entries 84
Mean 0.004794
Std Dev 0.9856
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

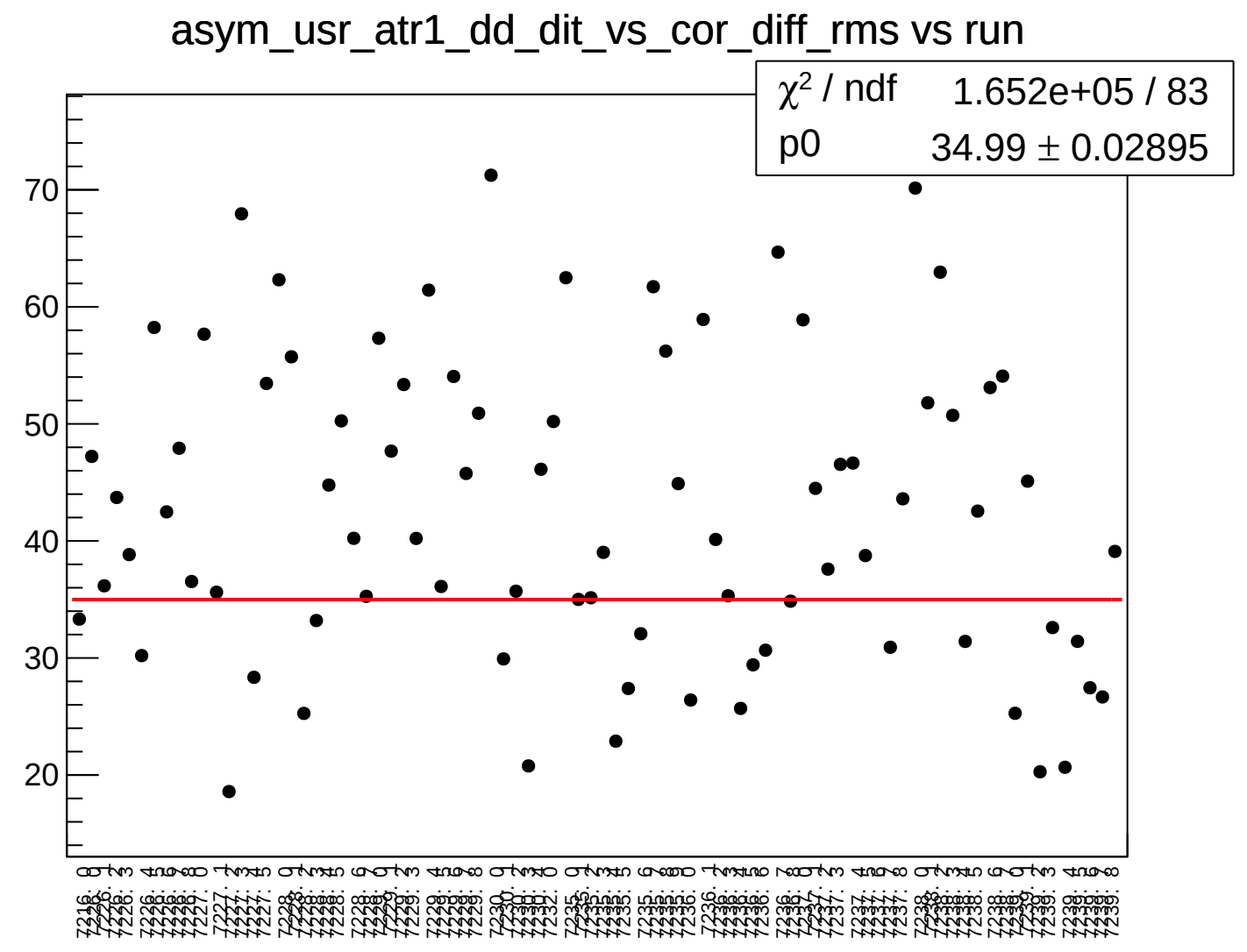

asym_usr_atr1_dd_rms vs run
χ² / ndf 433.2 / 83
p0 1490 ± 1.168
1540
1520
1500
1480
1460
1440
1420

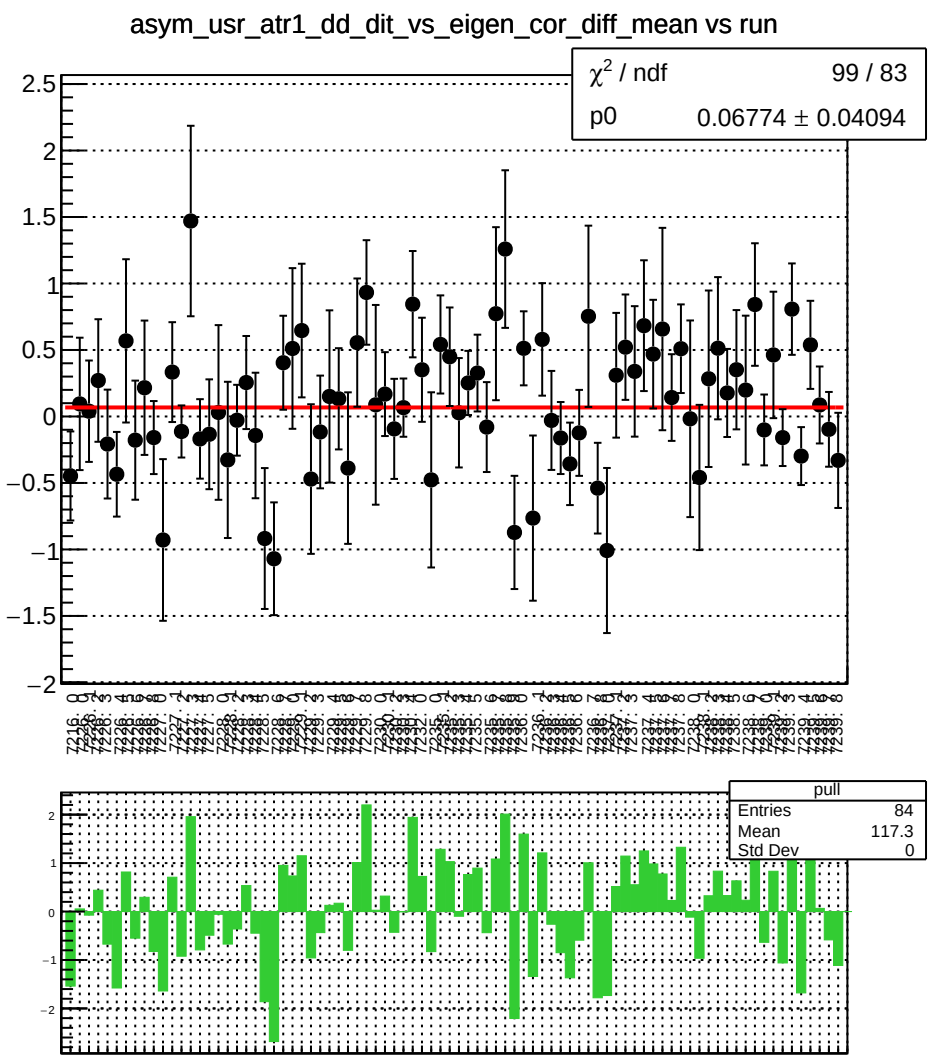

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 85.4 / 83
p0 3.352e−14 ± 2.719e−14
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 84
Mean −3.025
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 84
Mean 0.06152
Std Dev 1.006
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

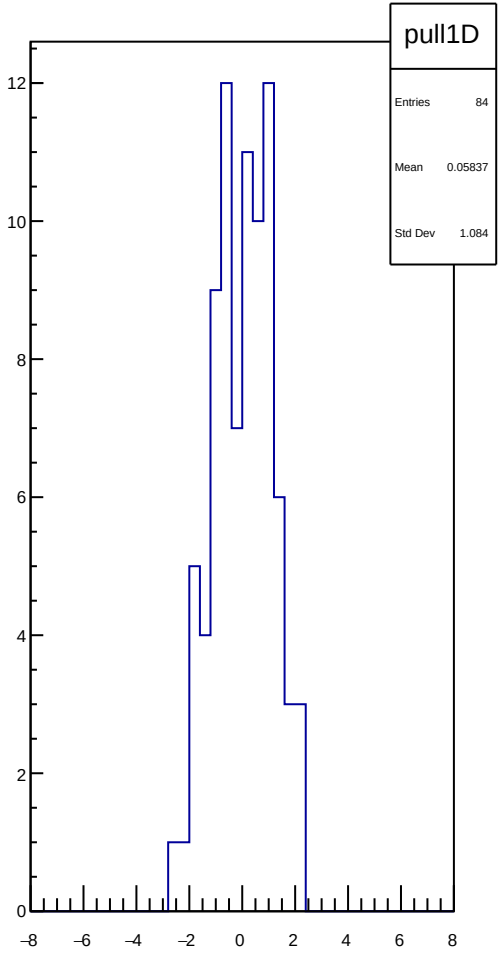

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.166e+06 / 83
p0 1.304e−11 ± 1.922e−14
1
0.8
0.6
0.4
0.2
0

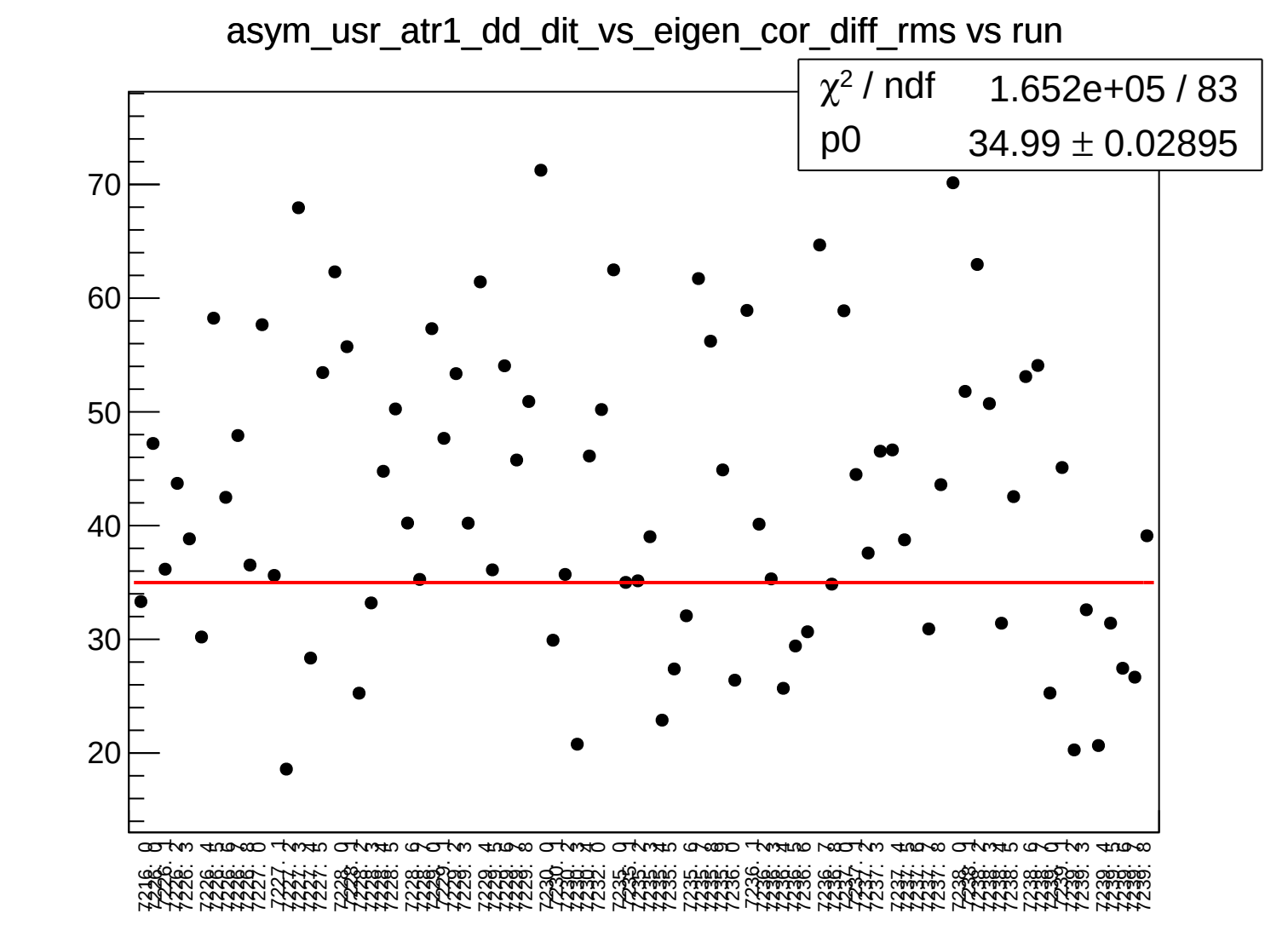

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 99 / 83
p0 0.06774 ± 0.04094
pull
Entries 84
Mean 117.3
Std Dev 0

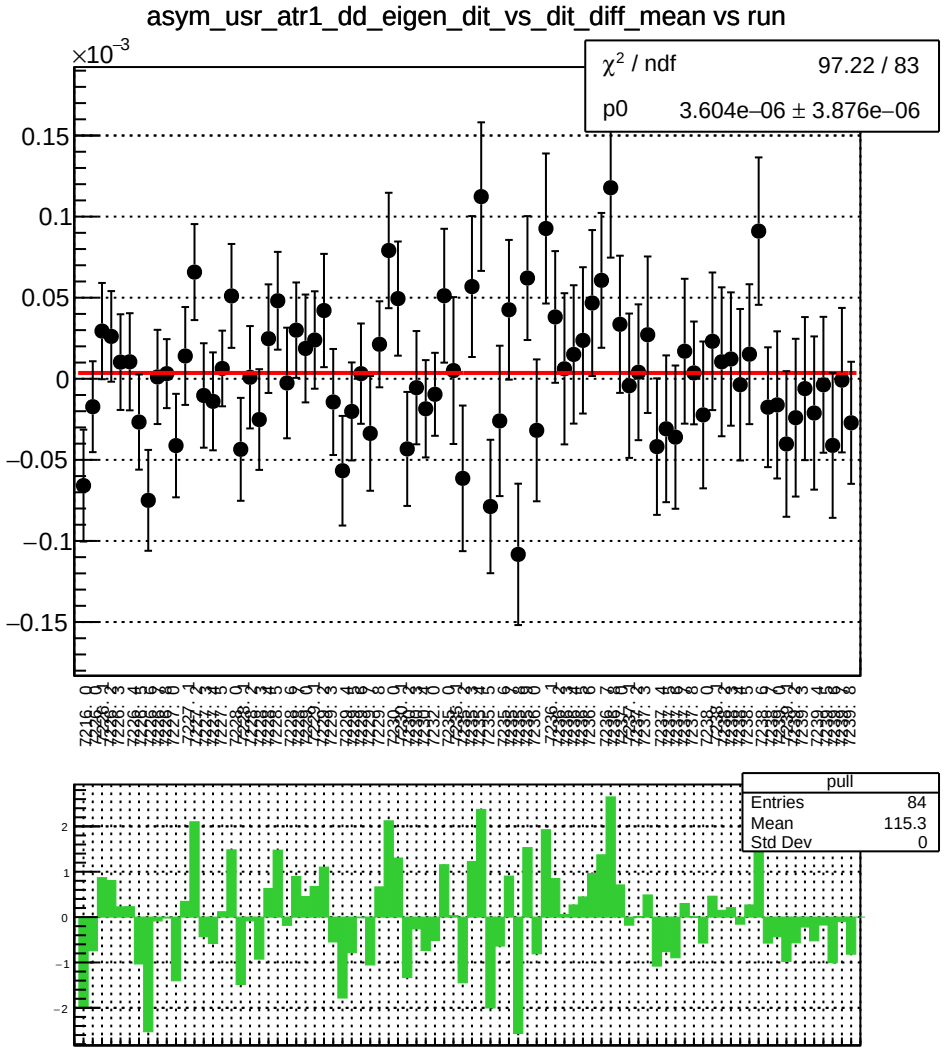

pull1D
Entries 84
Mean 0.05837
Std Dev 1.084

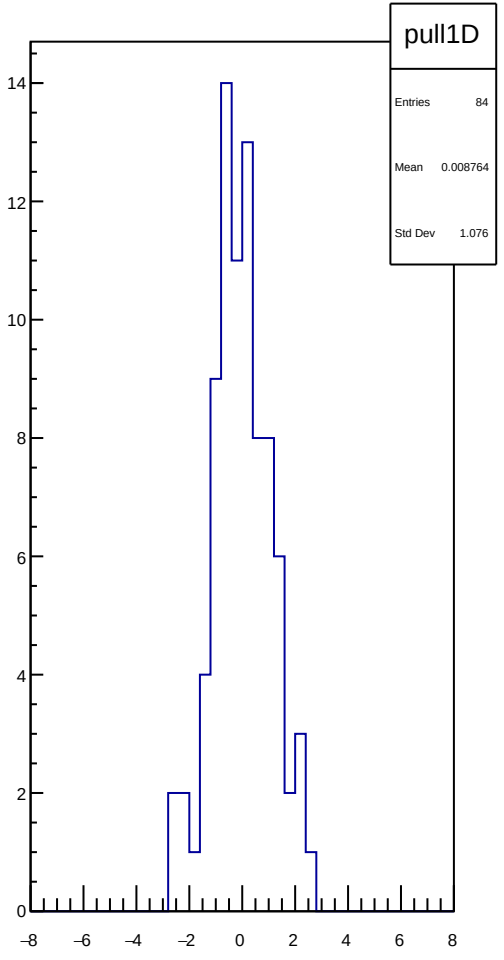

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.652e+05 / 83
p0 34.99 ± 0.02895
70
60
50
40
30
20

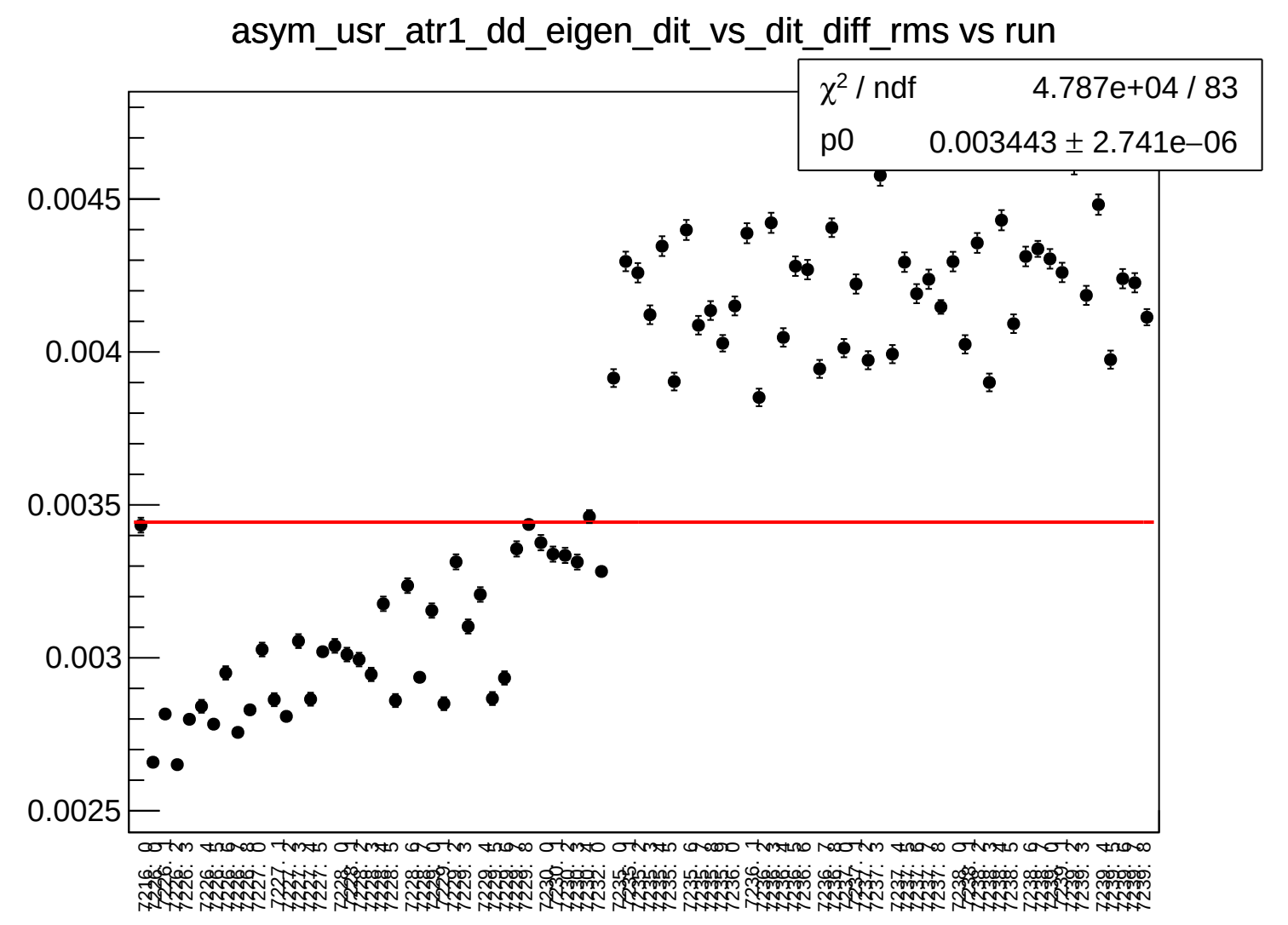

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99 / 83
p0 0.06774 ± 0.04094
pull
Entries 84
Mean 117.3
Std Dev 0

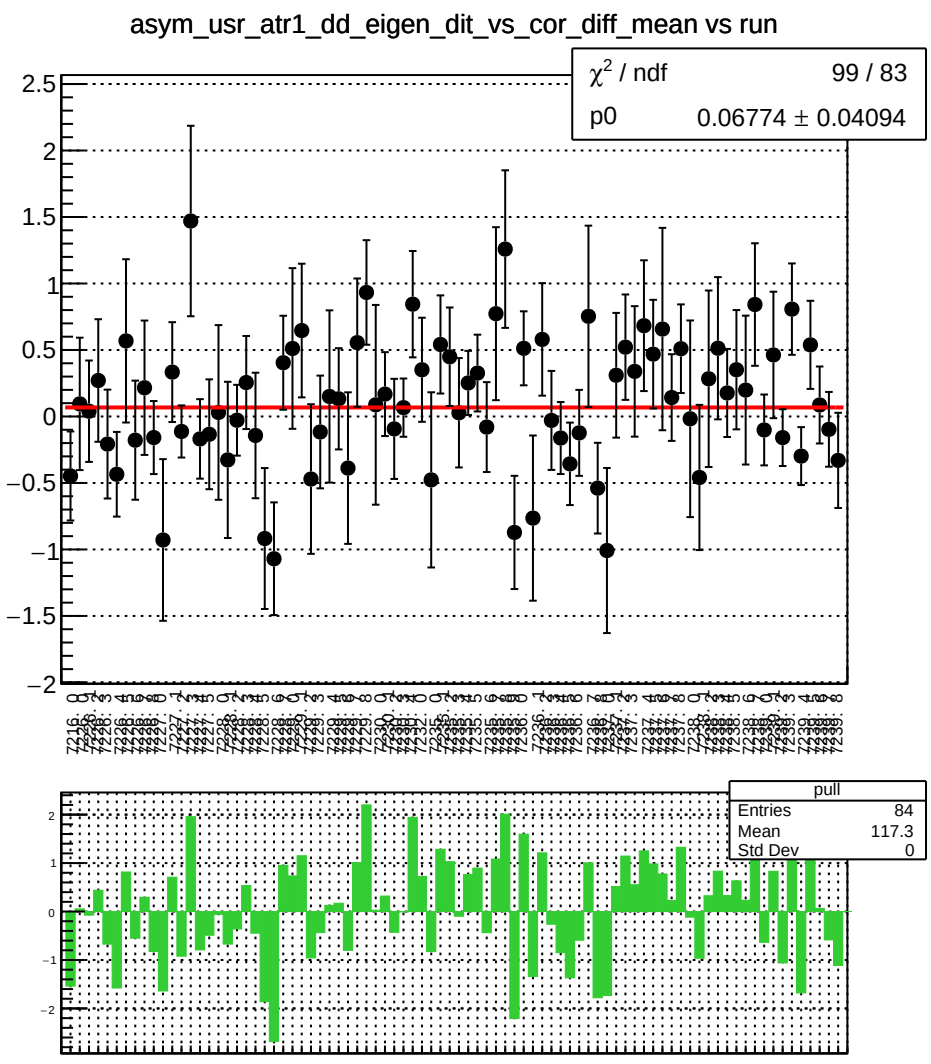

pull1D
Entries 84
Mean 0.05837
Std Dev 1.084

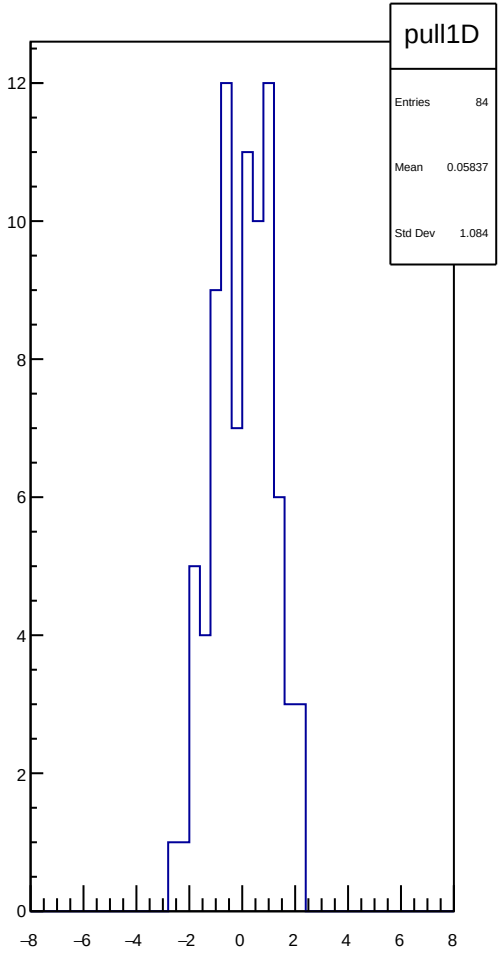

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.652e+05 / 83
p0 34.99 ± 0.02895
70
60
50
40
30
20

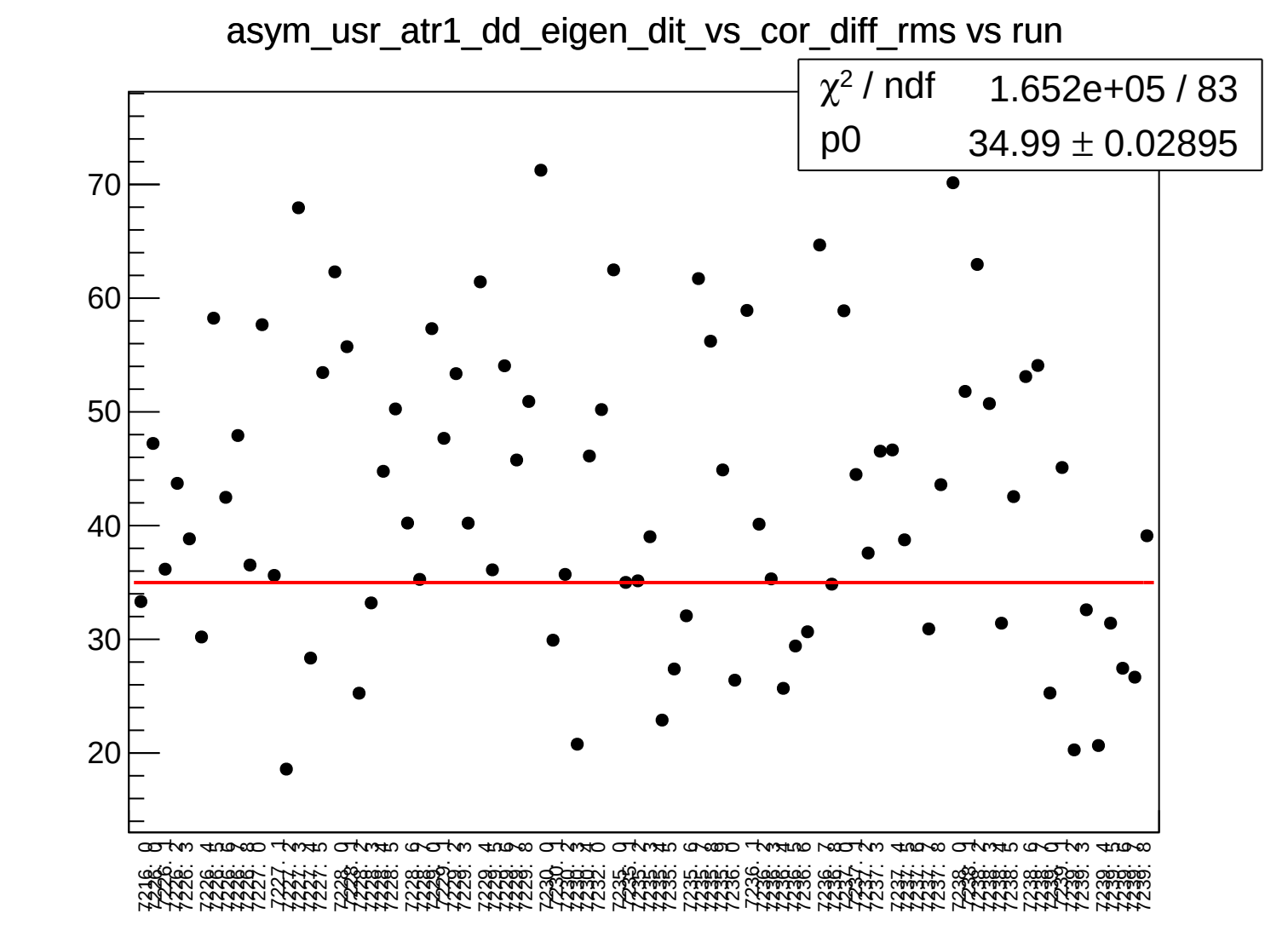

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.22 / 83
p0 3.604e−06 ± 3.876e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 84
Mean 115.3
Std Dev 0
2
1
0
−1
−2

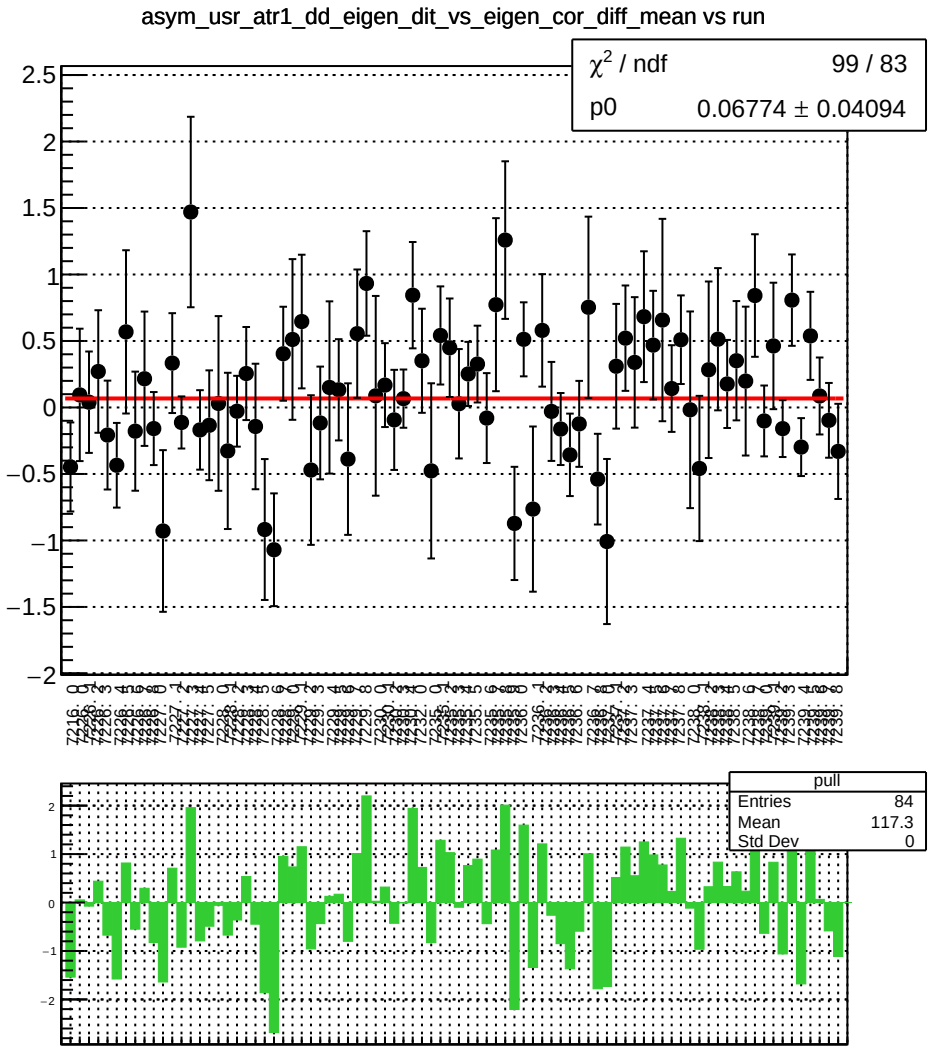

pull1D
Entries 84
Mean 0.008764
Std Dev 1.076
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

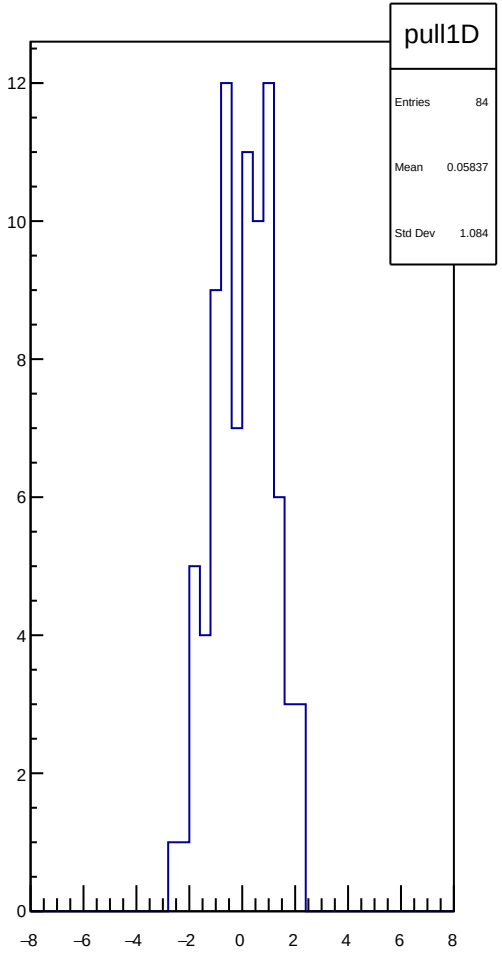

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.787e+04 / 83
p0 0.003443 ± 2.741e−06
0.0045
0.004
0.0035
0.003
0.0025

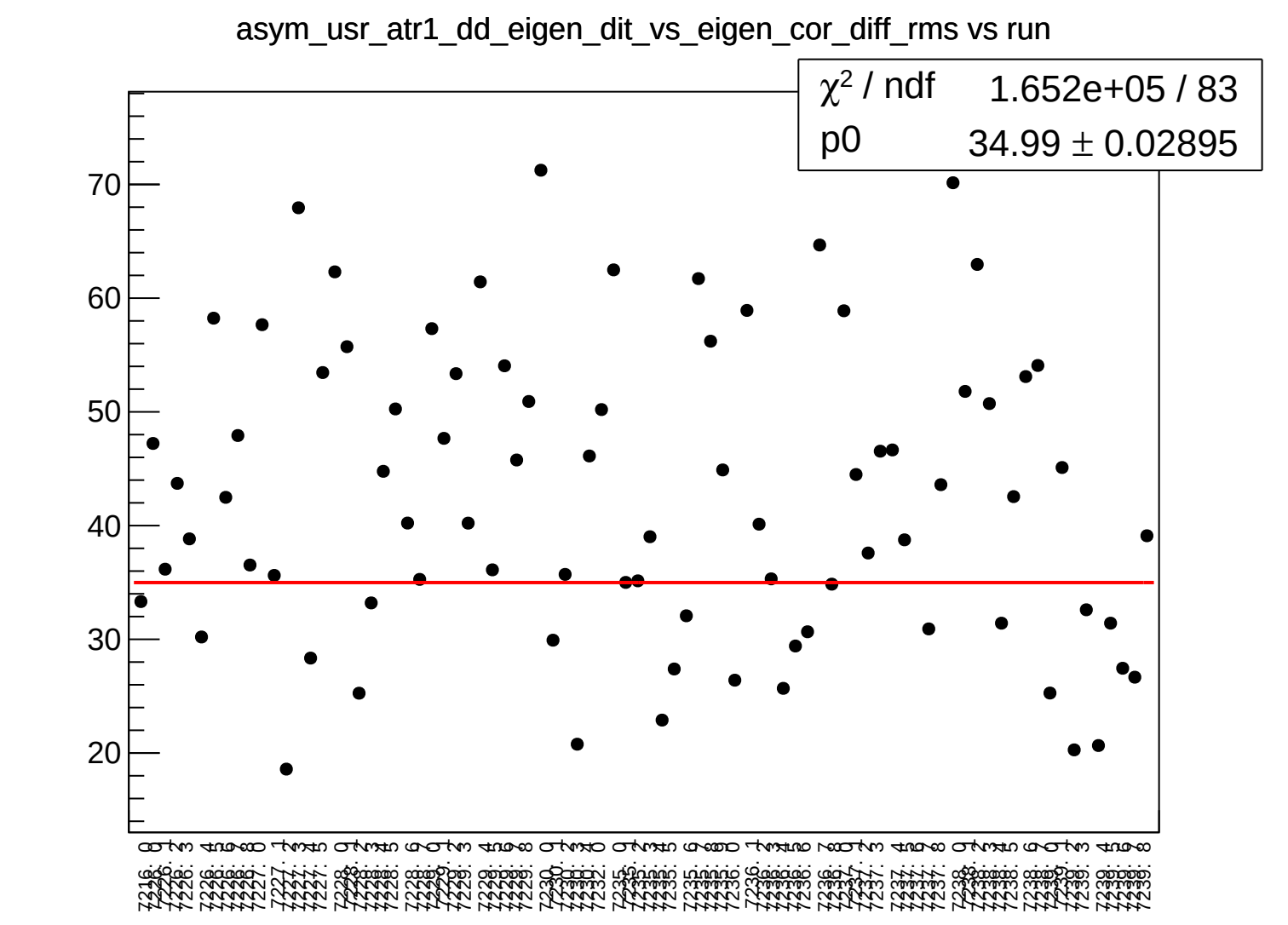

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99 / 83
p0 0.06774 ± 0.04094
pull
Entries 84
Mean 117.3
Std Dev 0

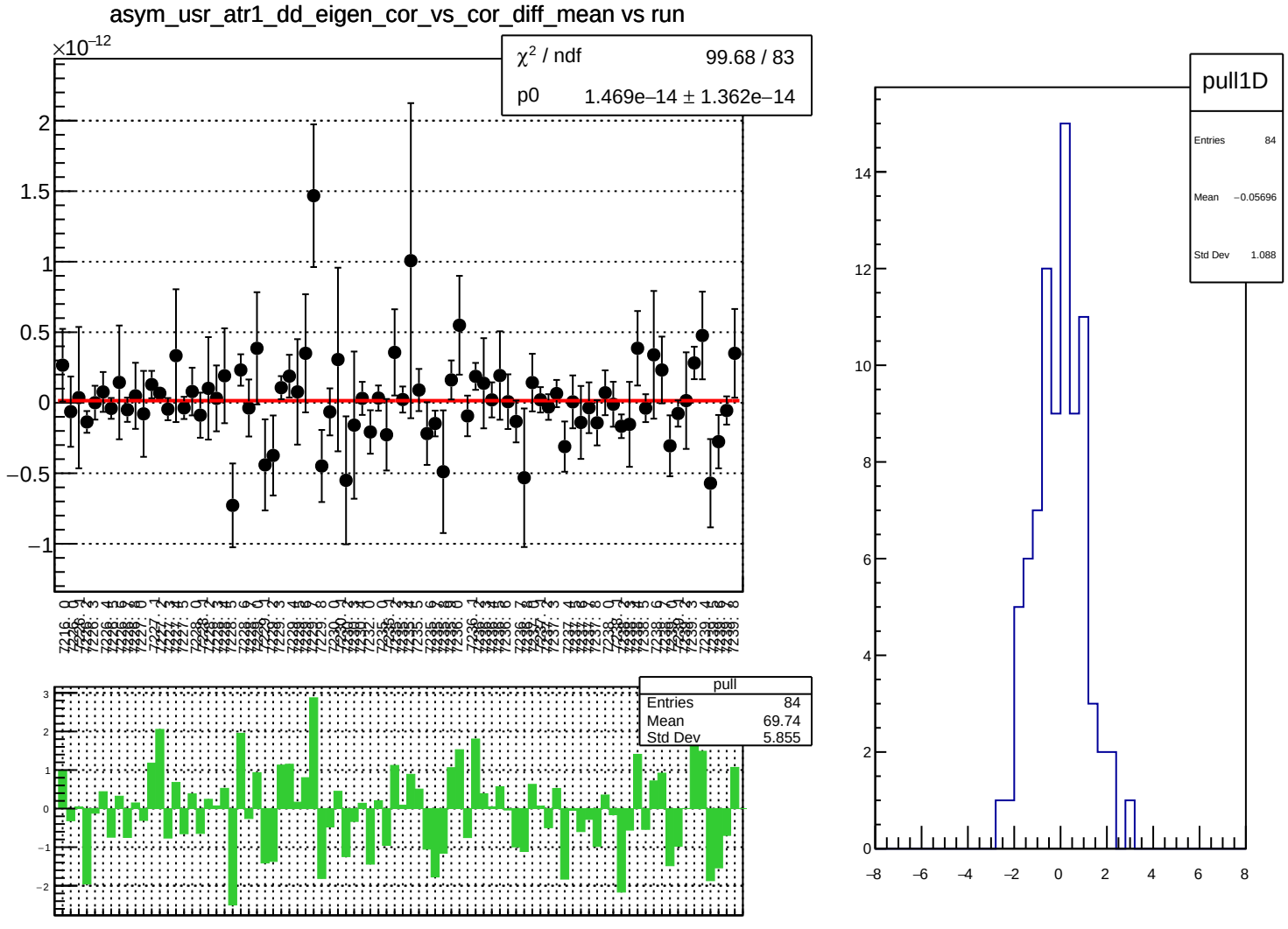

pull1D
Entries 84
Mean 0.05837
Std Dev 1.084

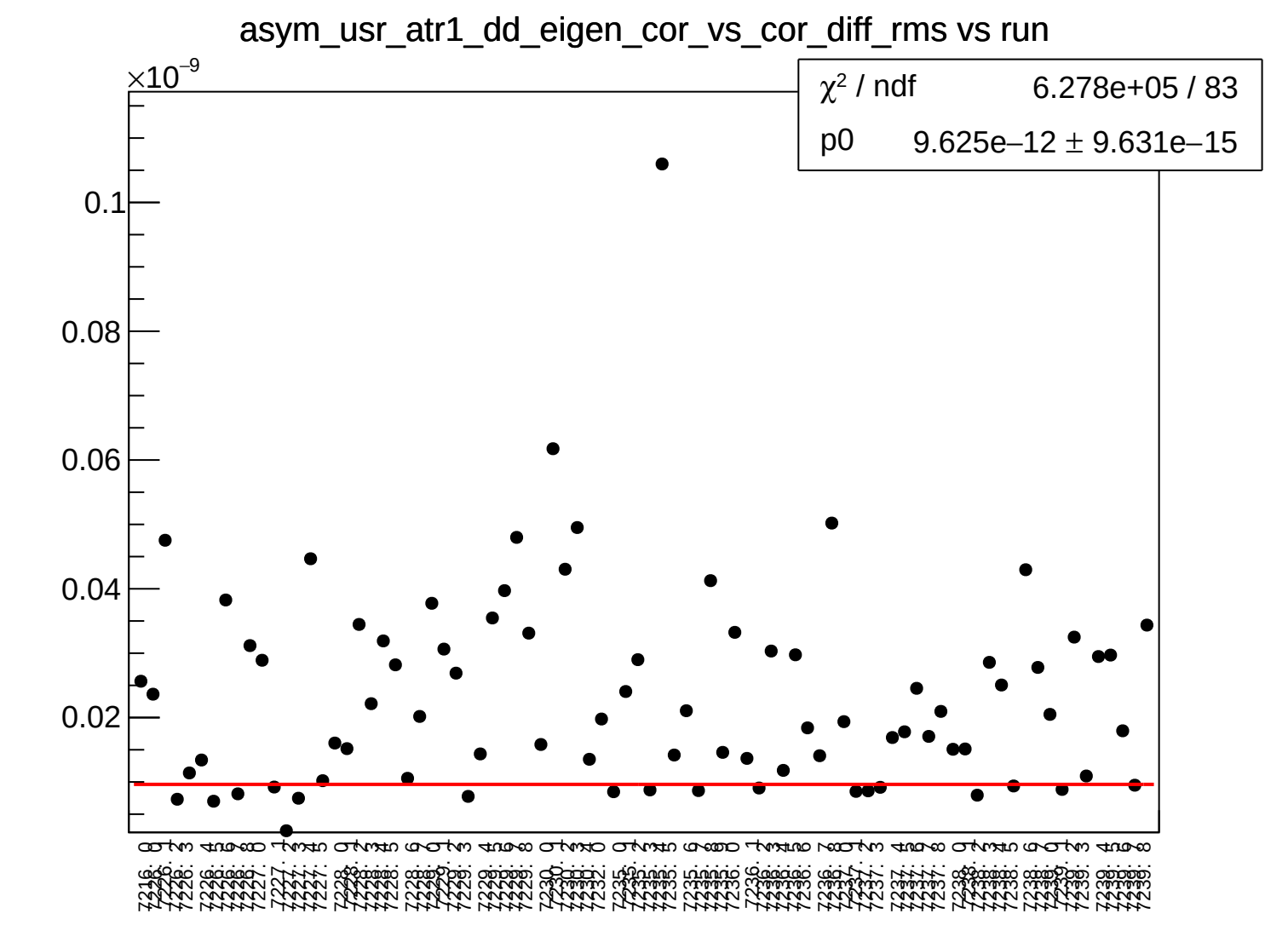

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.652e+05 / 83
p0 34.99 ± 0.02895
70
60
50
40
30
20

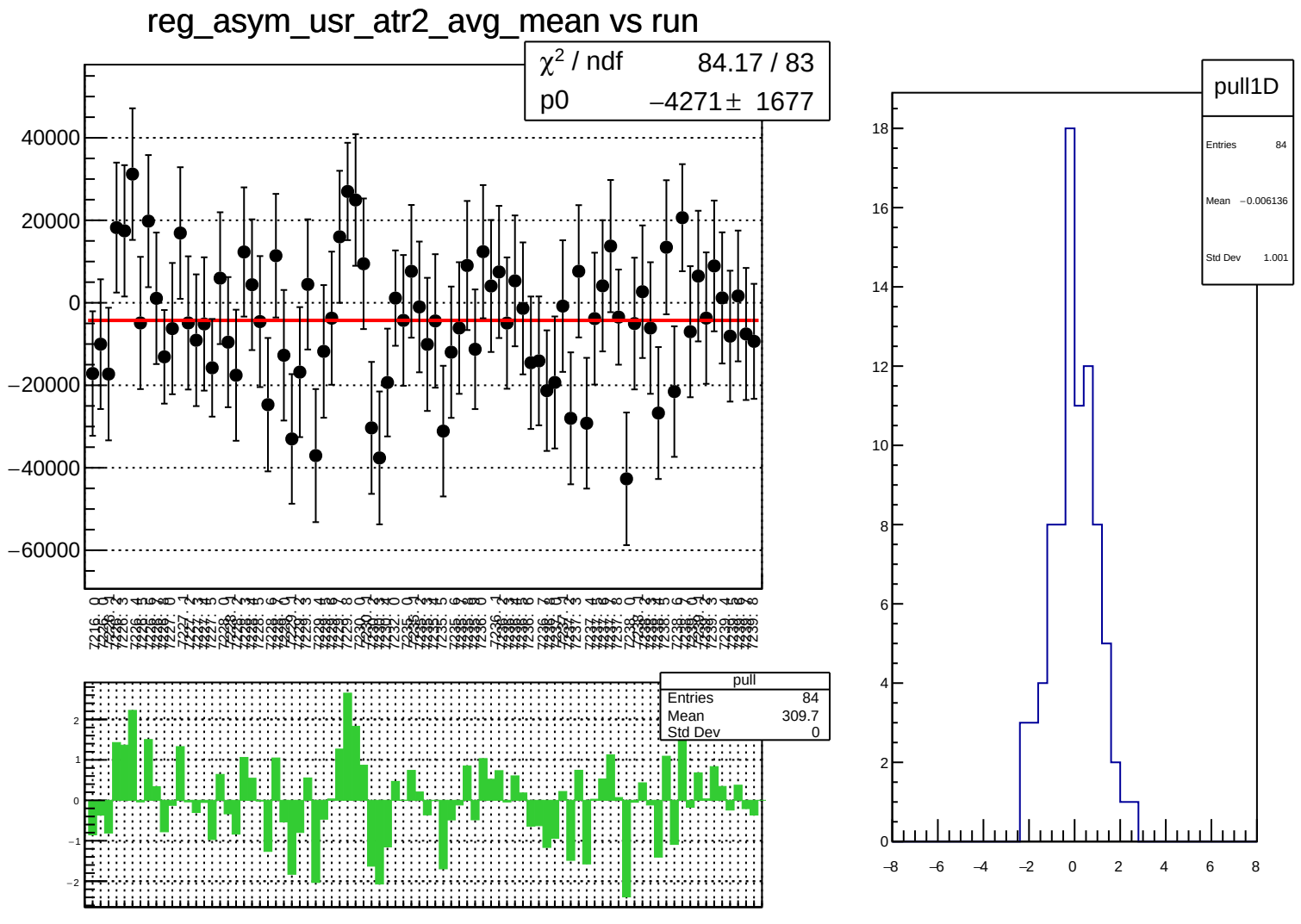

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99 / 83
p0 0.06774 ± 0.04094
pull
Entries 84
Mean 117.3
Std Dev 0

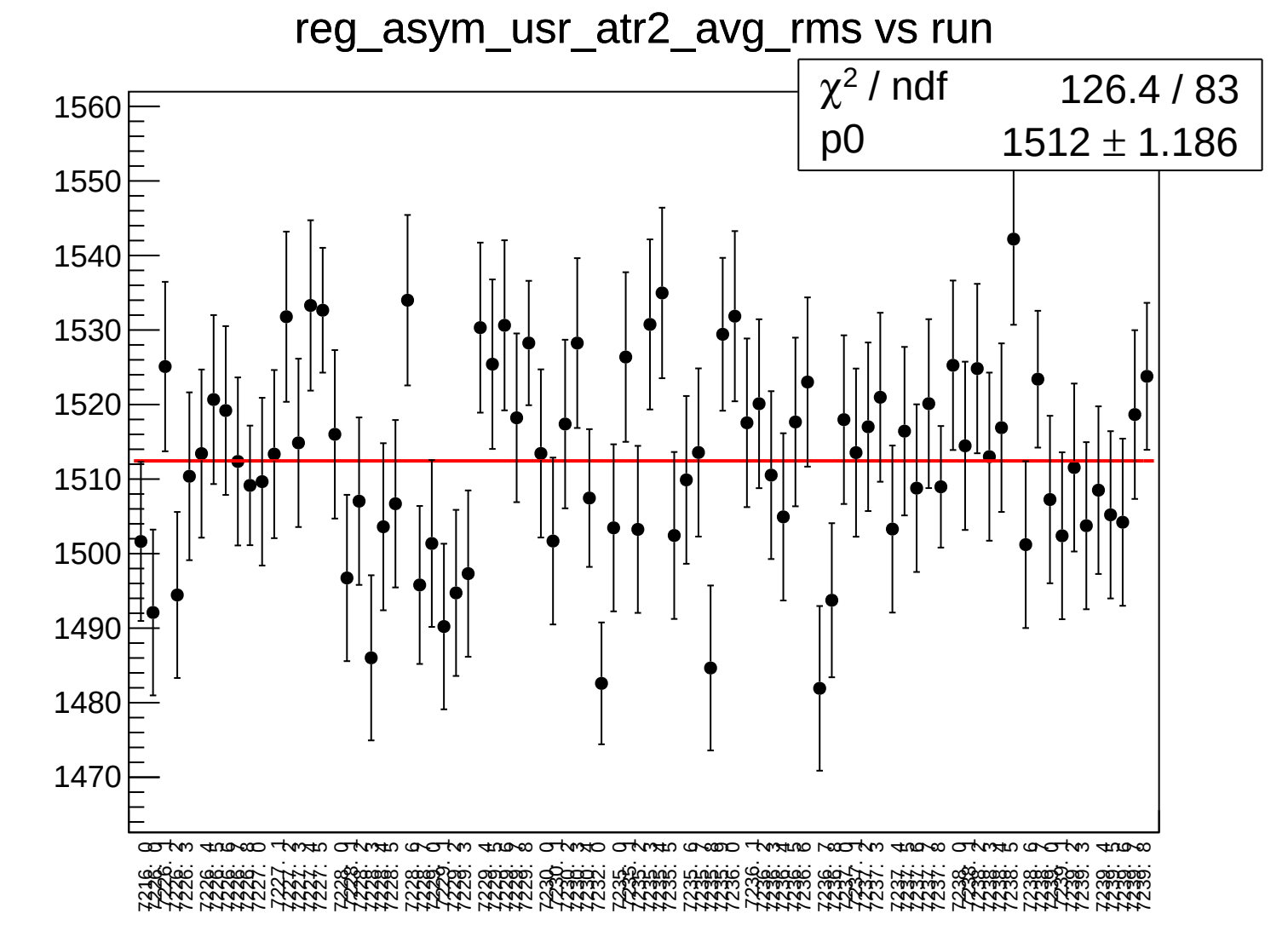

pull1D
Entries 84
Mean 0.05837
Std Dev 1.084

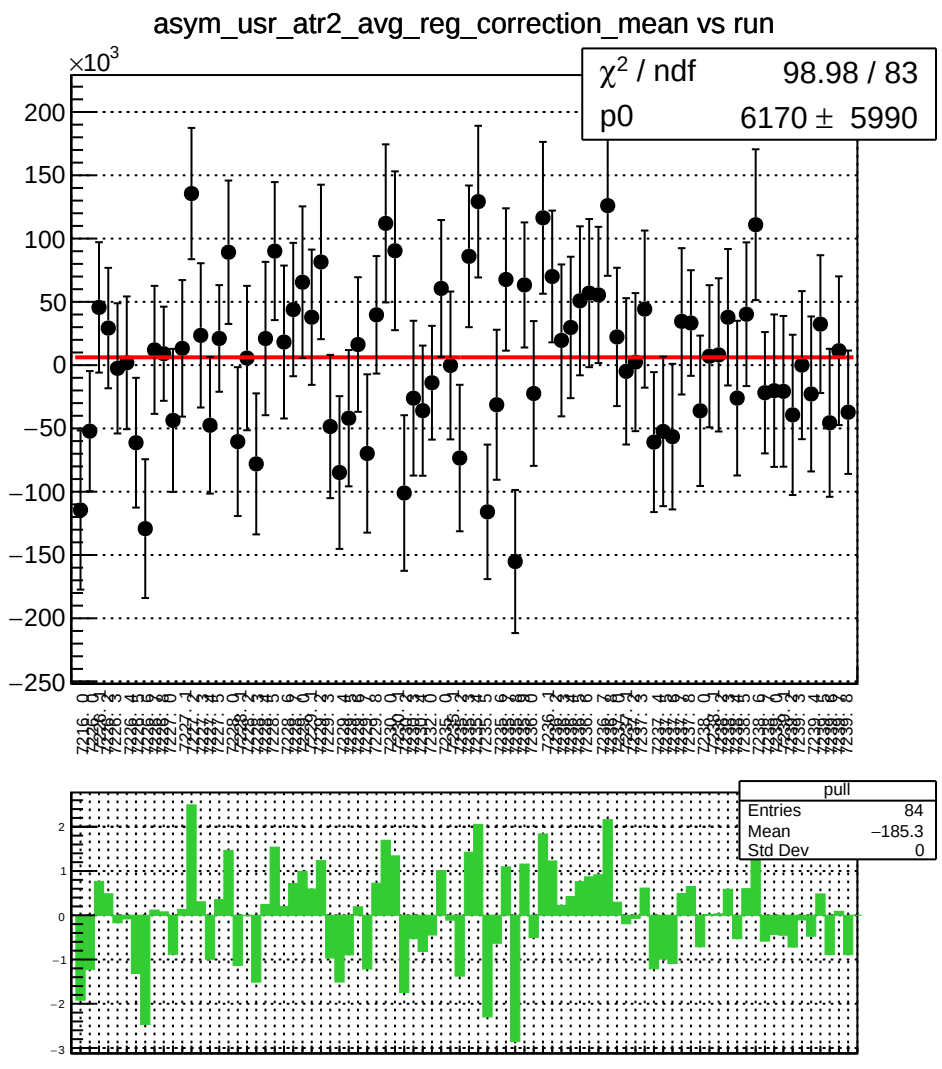

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.652e+05 / 83
p0 34.99 ± 0.02895
70
60
50
40
30
20

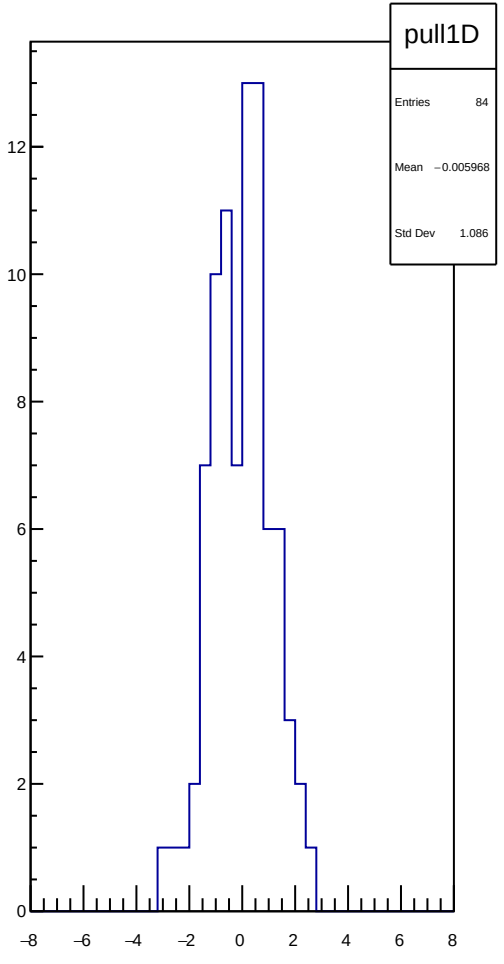

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.68 / 83
p0 1.469e−14 ± 1.362e−14
pull
Entries 84
Mean 69.74
Std Dev 5.855
pull1D
Entries 84
Mean −0.05696
Std Dev 1.088

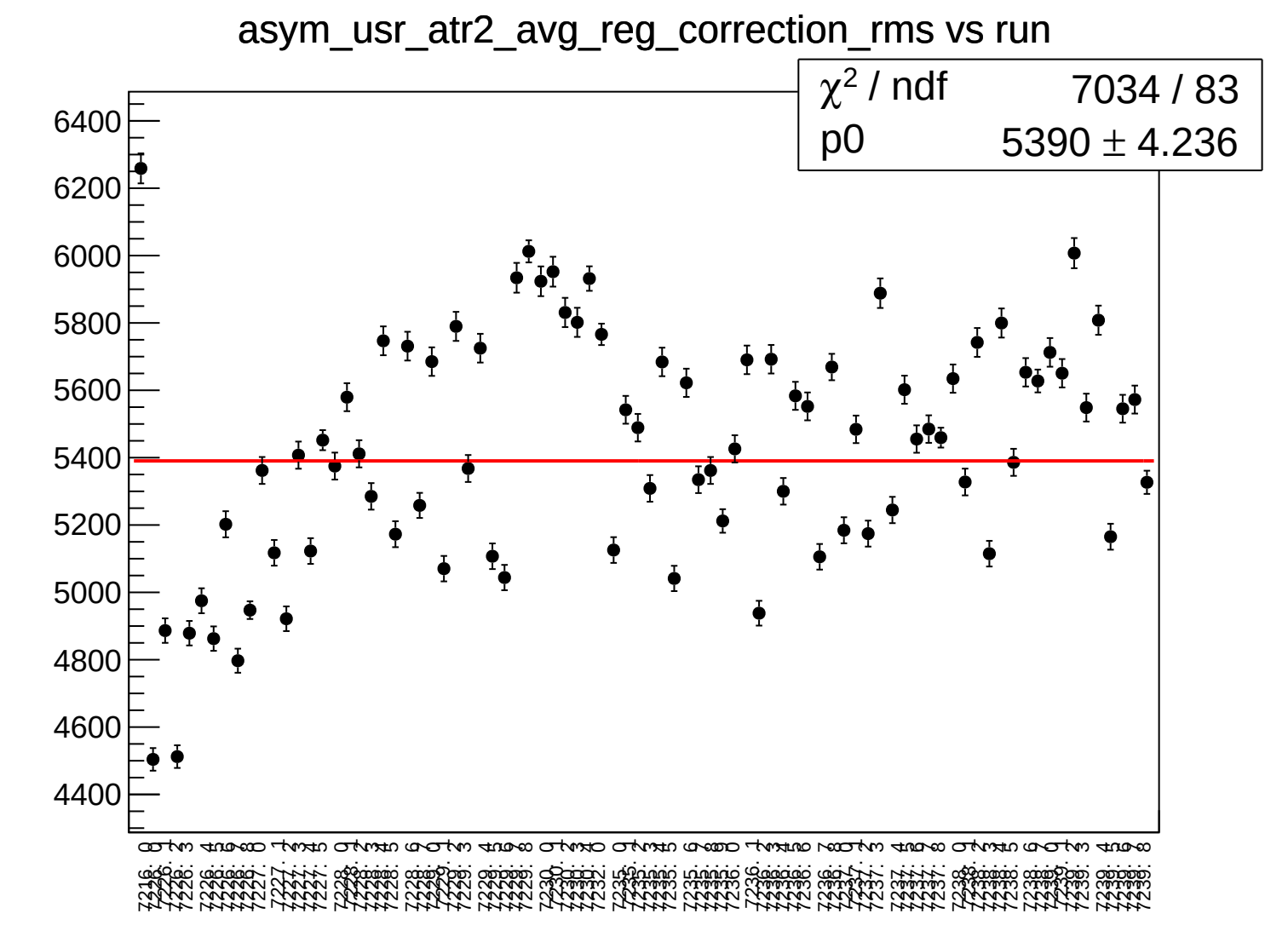

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.278e+05 / 83
p0 9.625e−12 ± 9.631e−15
0.1
0.08
0.06
0.04
0.02

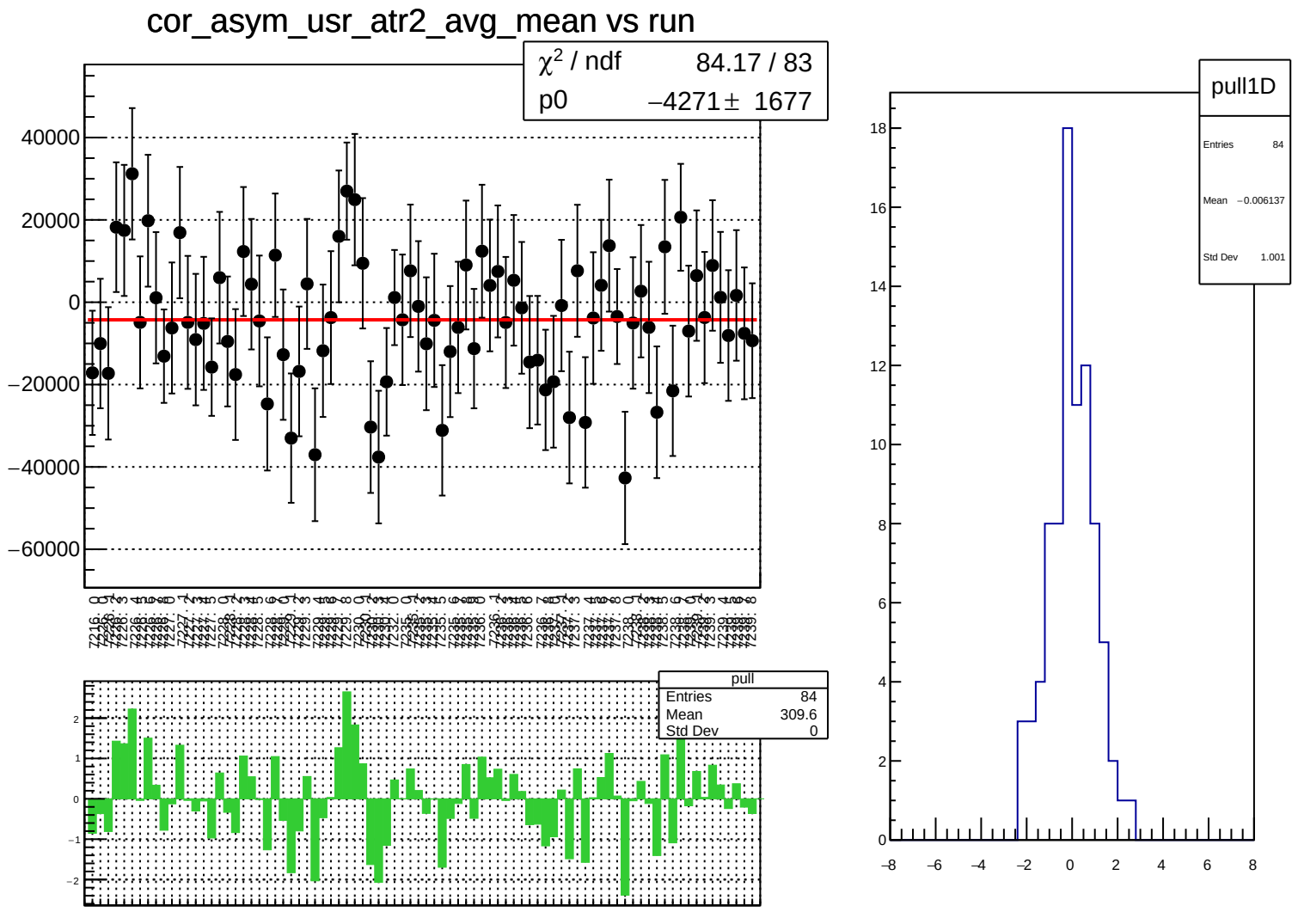

reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 84.17 / 83
p0 −4271 ± 1677
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 309.7
Std Dev 0
pull1D
Entries 84
Mean −0.006136
Std Dev 1.001
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

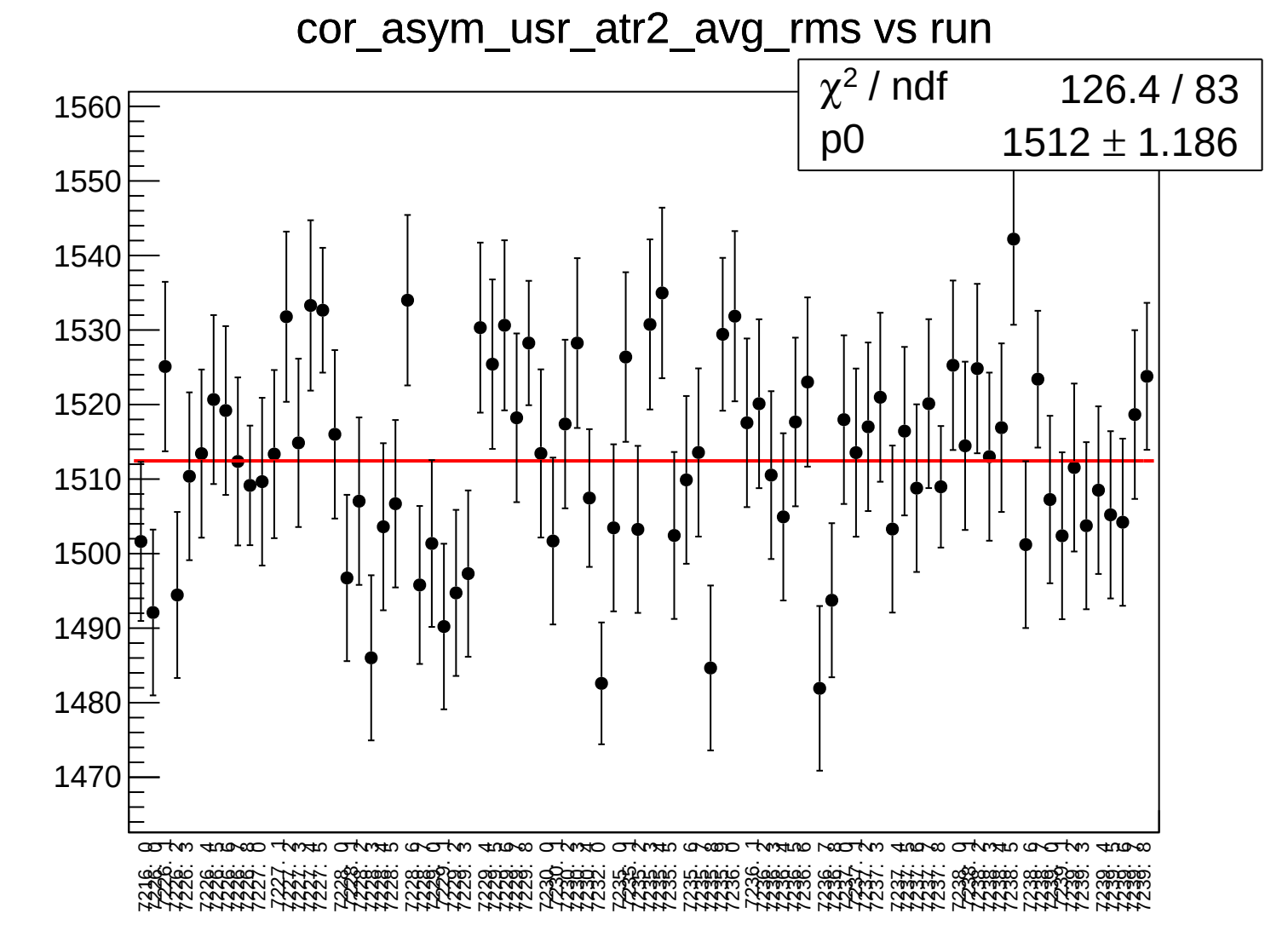

reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 126.4 / 83
p0 1512 ± 1.186
1560
1550
1540
1530
1520
1510
1500
1490
1480
1470

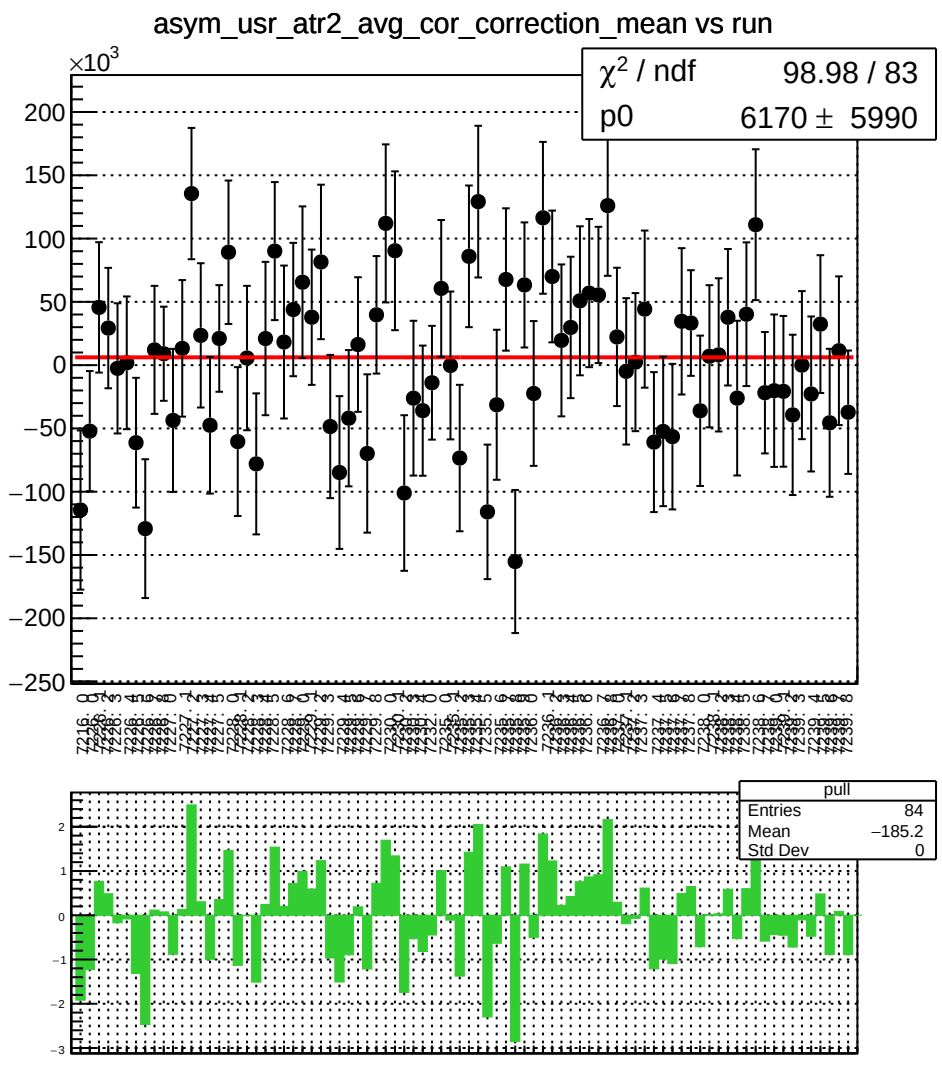

asym_usr_atr2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 98.98 / 83
p0 6170 ± 5990
pull
Entries 84
Mean −185.3
Std Dev 0

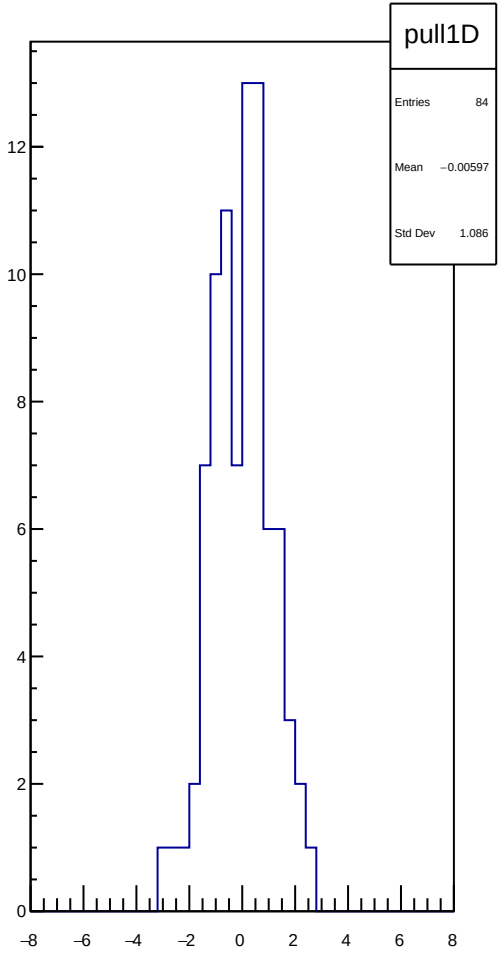

pull1D
Entries 84
Mean −0.005968
Std Dev 1.086

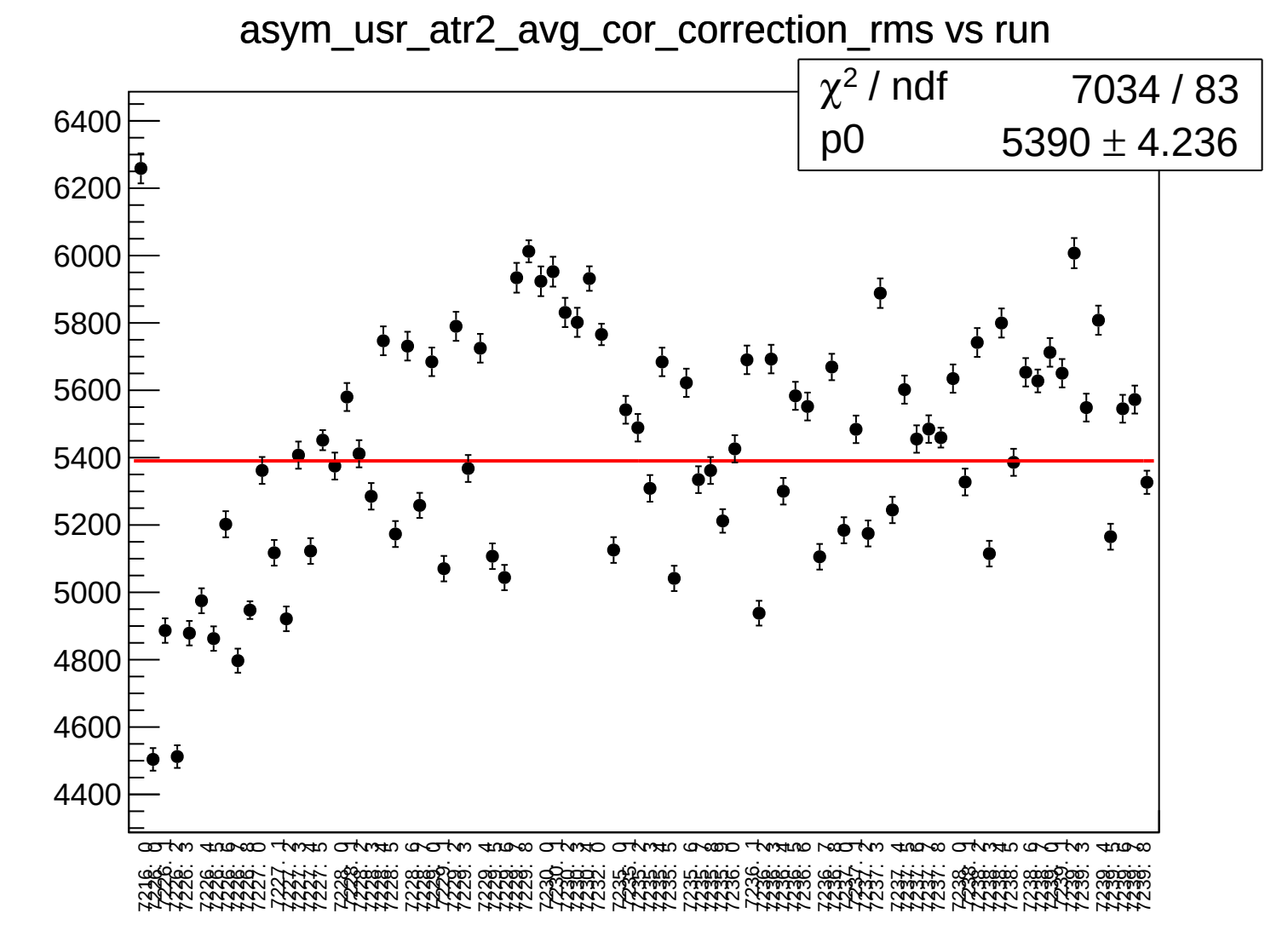

asym_usr_atr2_avg_reg_correction_rms vs run
χ² / ndf 7034 / 83
p0 5390 ± 4.236
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400

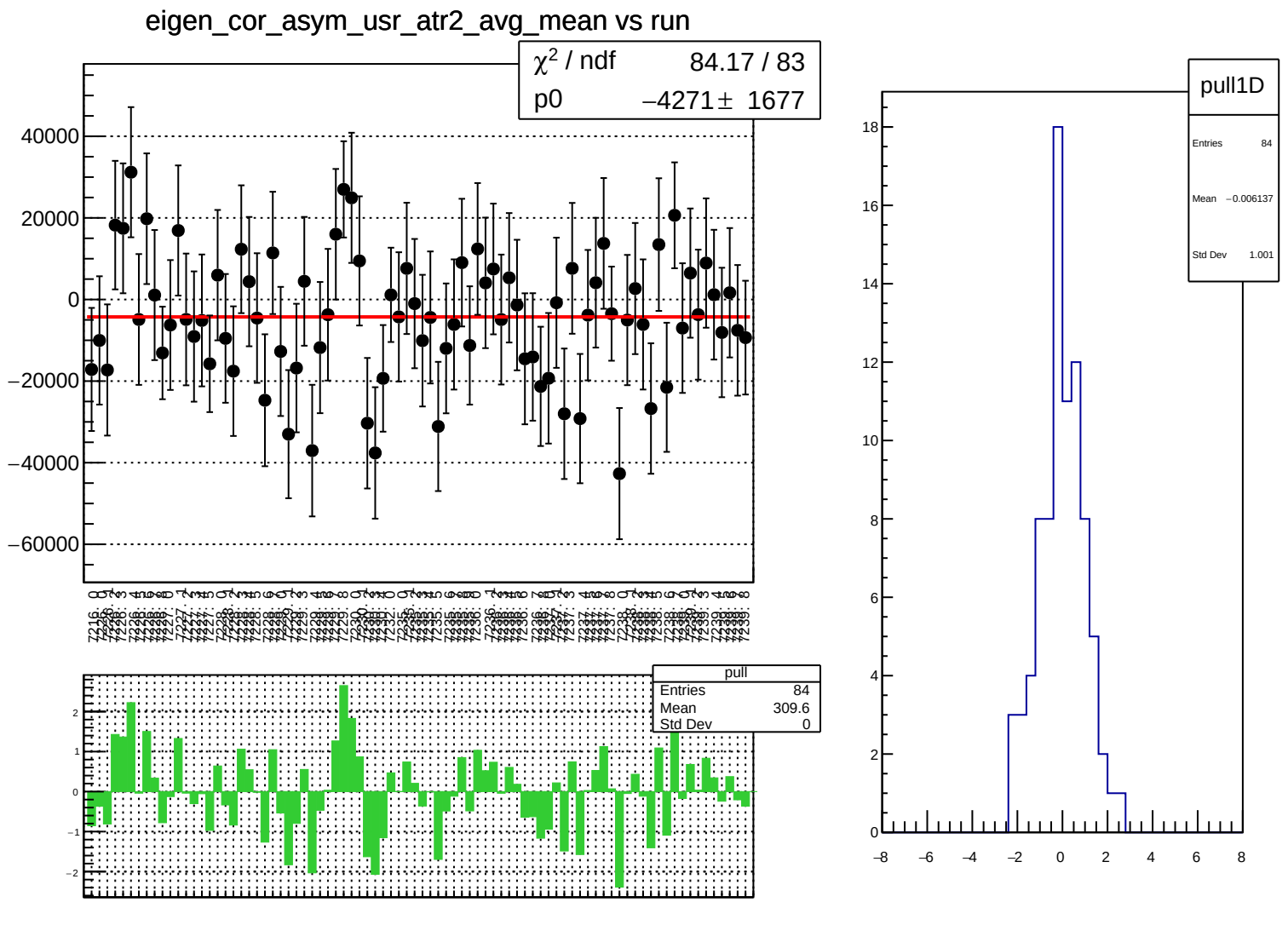

cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 84.17 / 83
p0 −4271 ± 1677
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 309.6
Std Dev 0
pull1D
Entries 84
Mean −0.006137
Std Dev 1.001

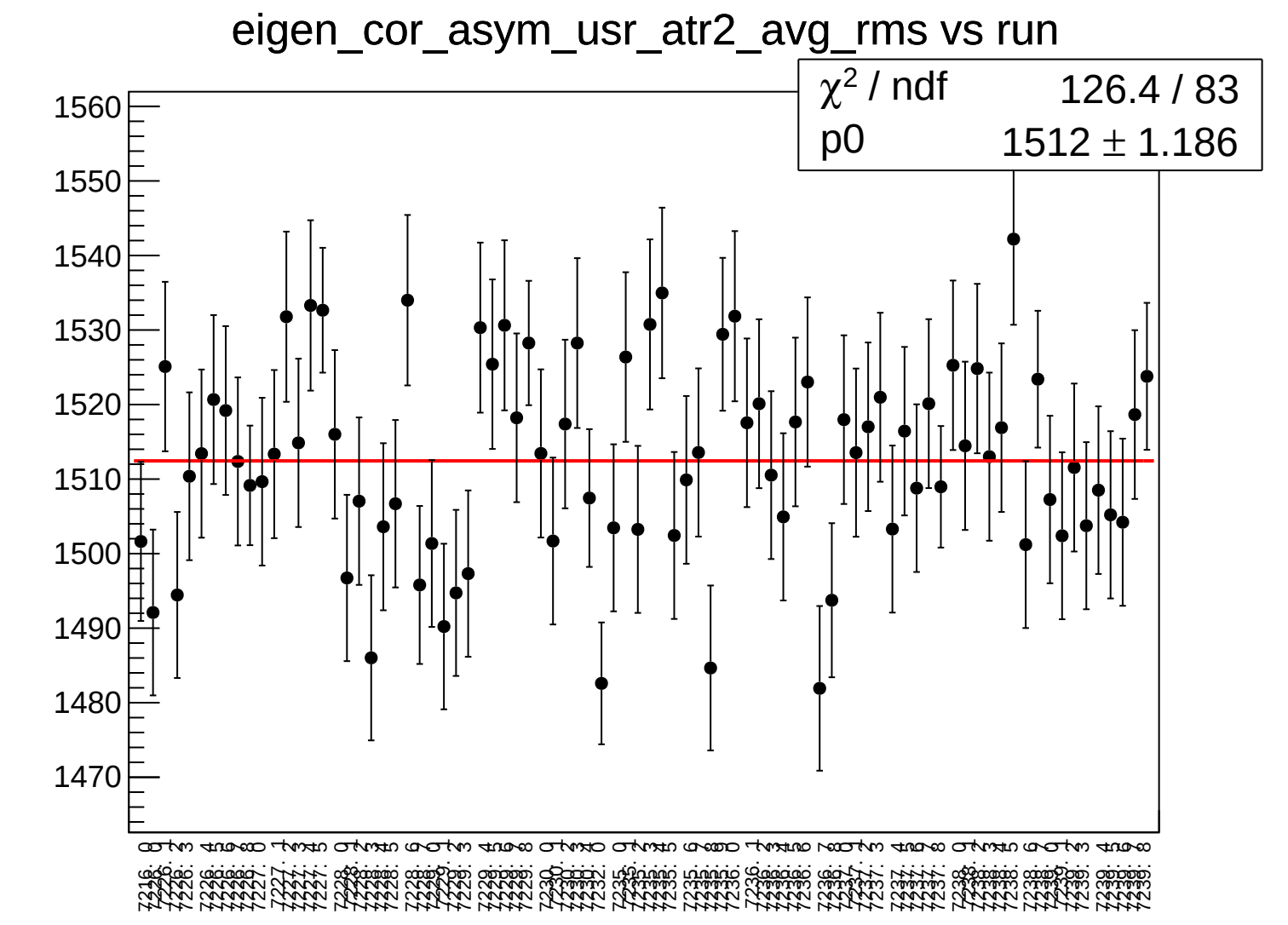

cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 126.4 / 83
p0 1512 ± 1.186
1560
1550
1540
1530
1520
1510
1500
1490
1480
1470

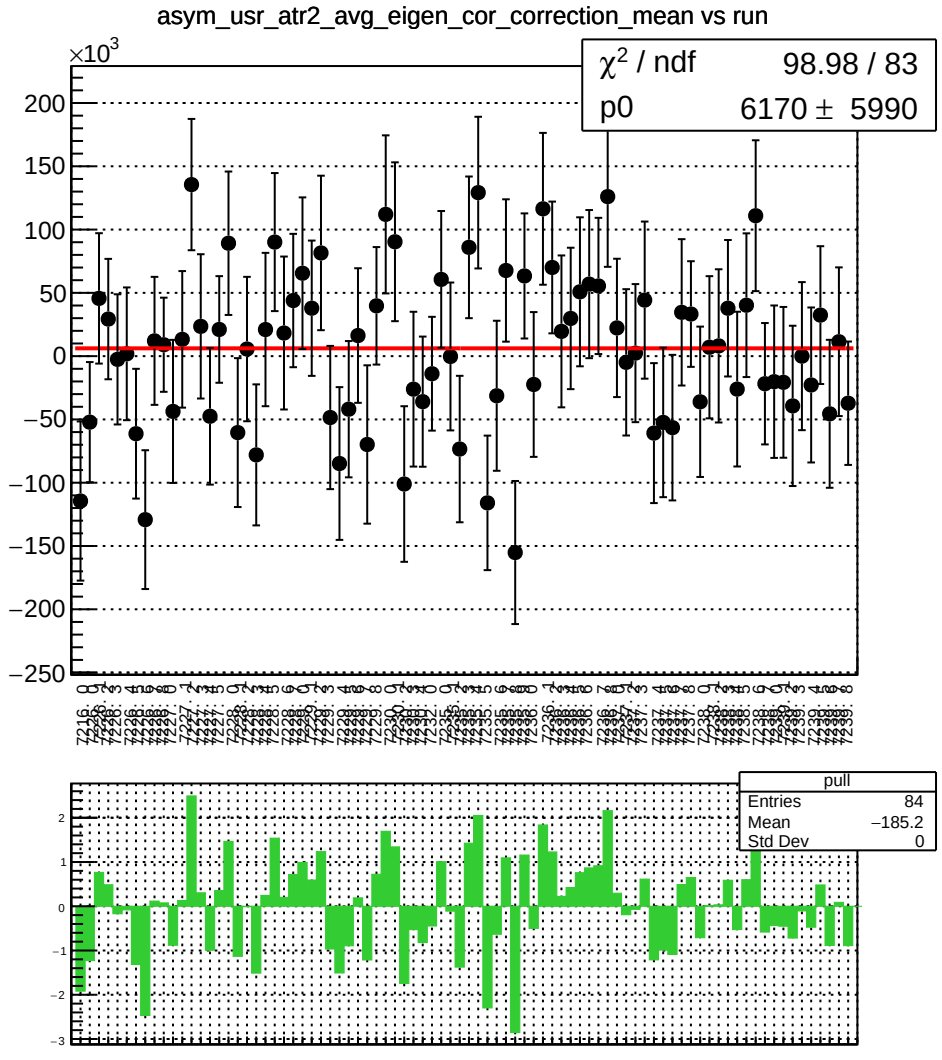

asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 98.98 / 83
p0 6170 ± 5990
pull
Entries 84
Mean −185.2
Std Dev 0

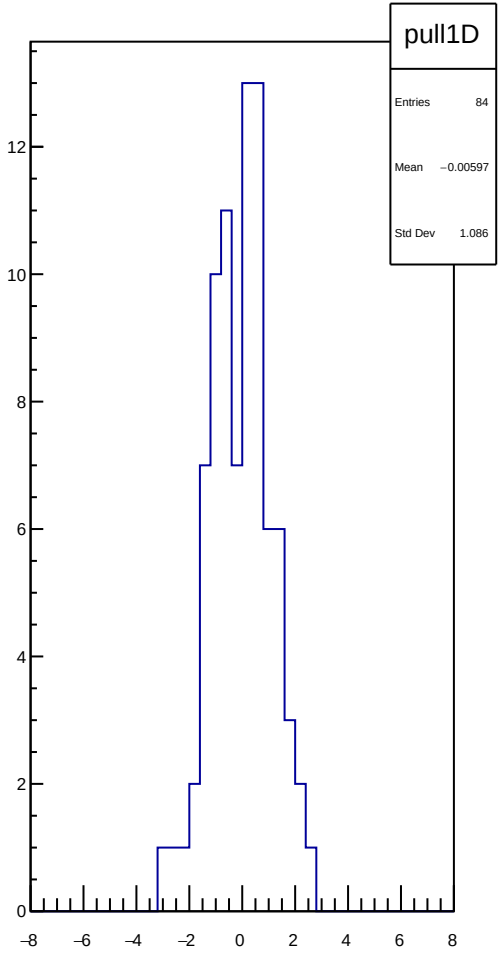

pull1D
Entries 84
Mean −0.00597
Std Dev 1.086

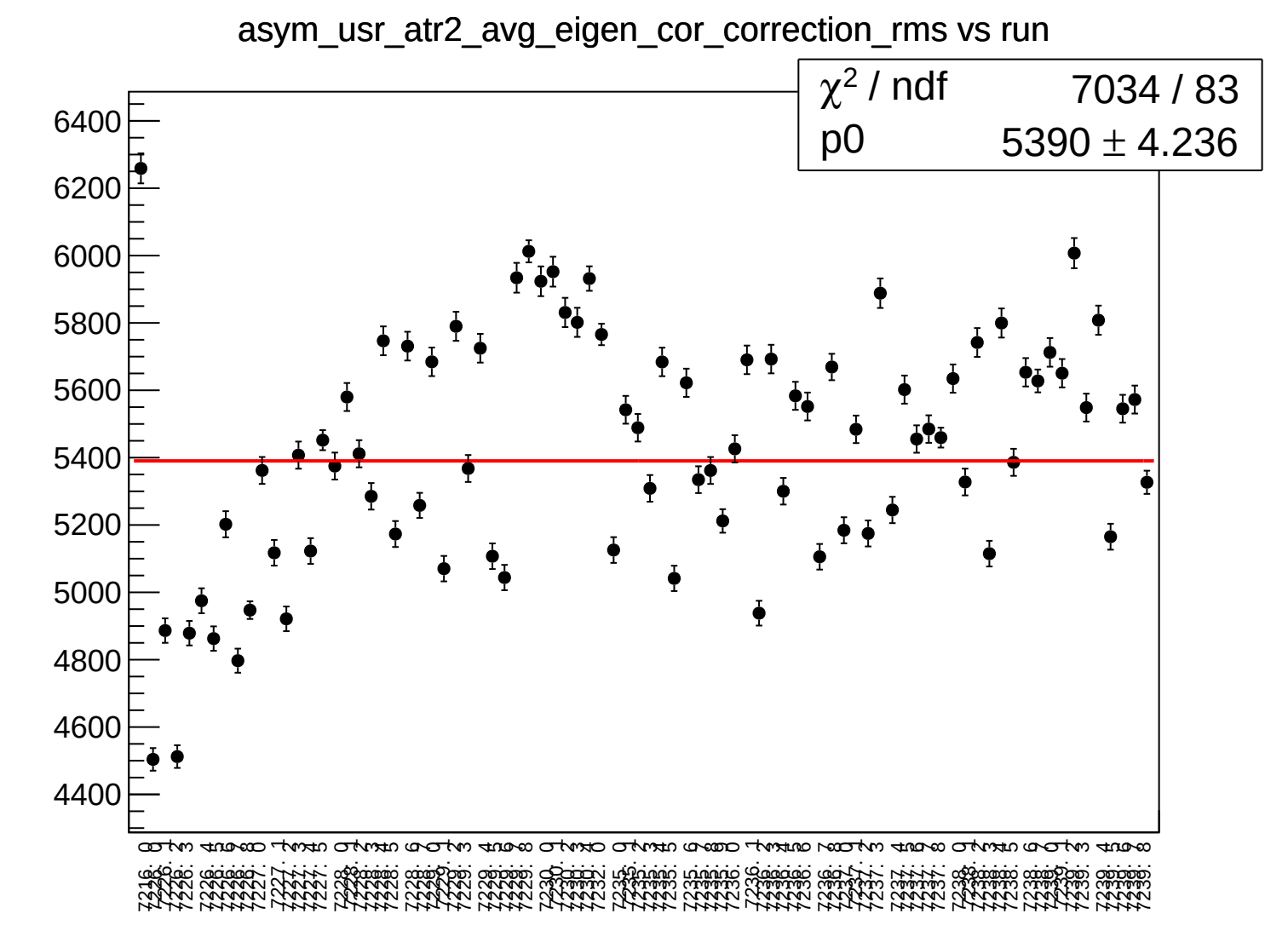

asym_usr_atr2_avg_cor_correction_rms vs run
χ² / ndf 7034 / 83
p0 5390 ± 4.236
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400

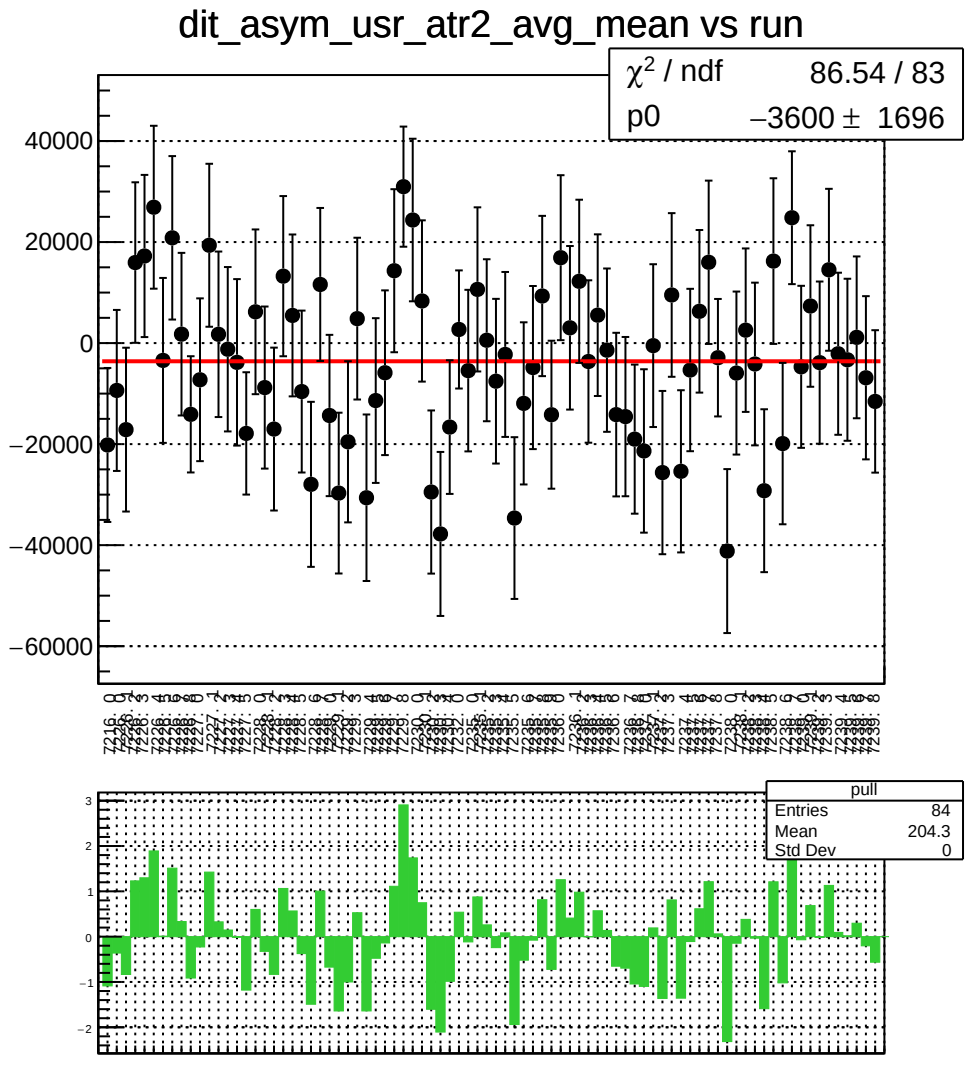

eigen_cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 84.17 / 83
p0 −4271 ± 1677
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 309.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.006137
Std Dev 1.001
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

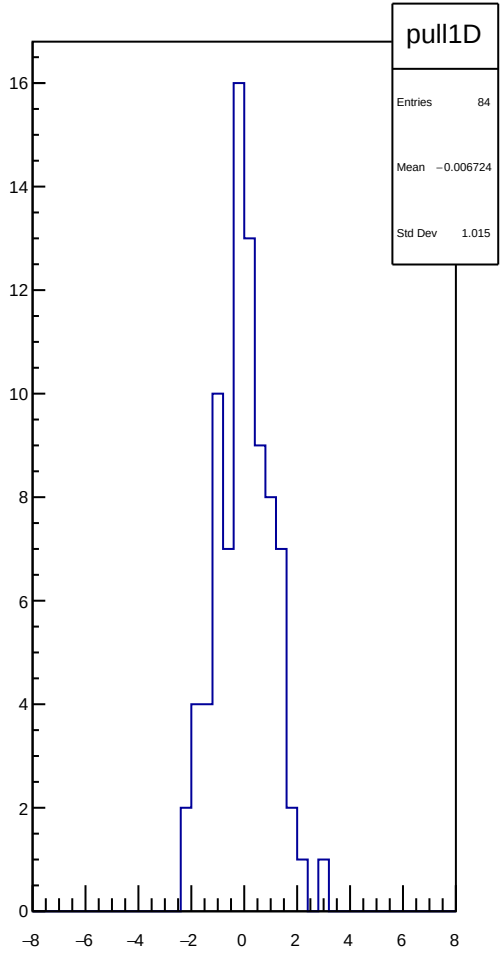

eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 126.4 / 83
p0 1512 ± 1.186
1560
1550
1540
1530
1520
1510
1500
1490
1480
1470

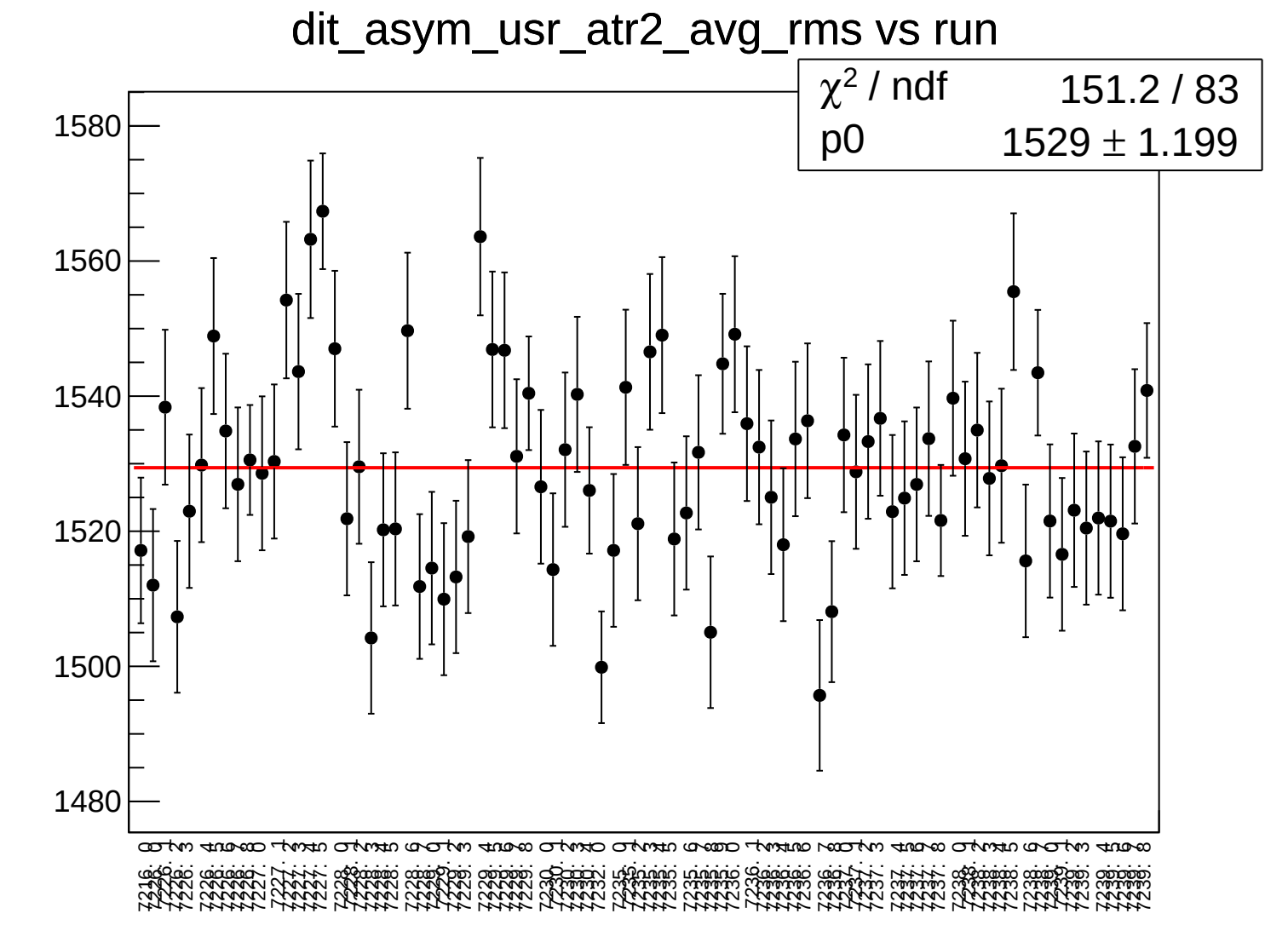

asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 98.98 / 83
p0 6170 ± 5990
pull
Entries 84
Mean −185.2
Std Dev 0

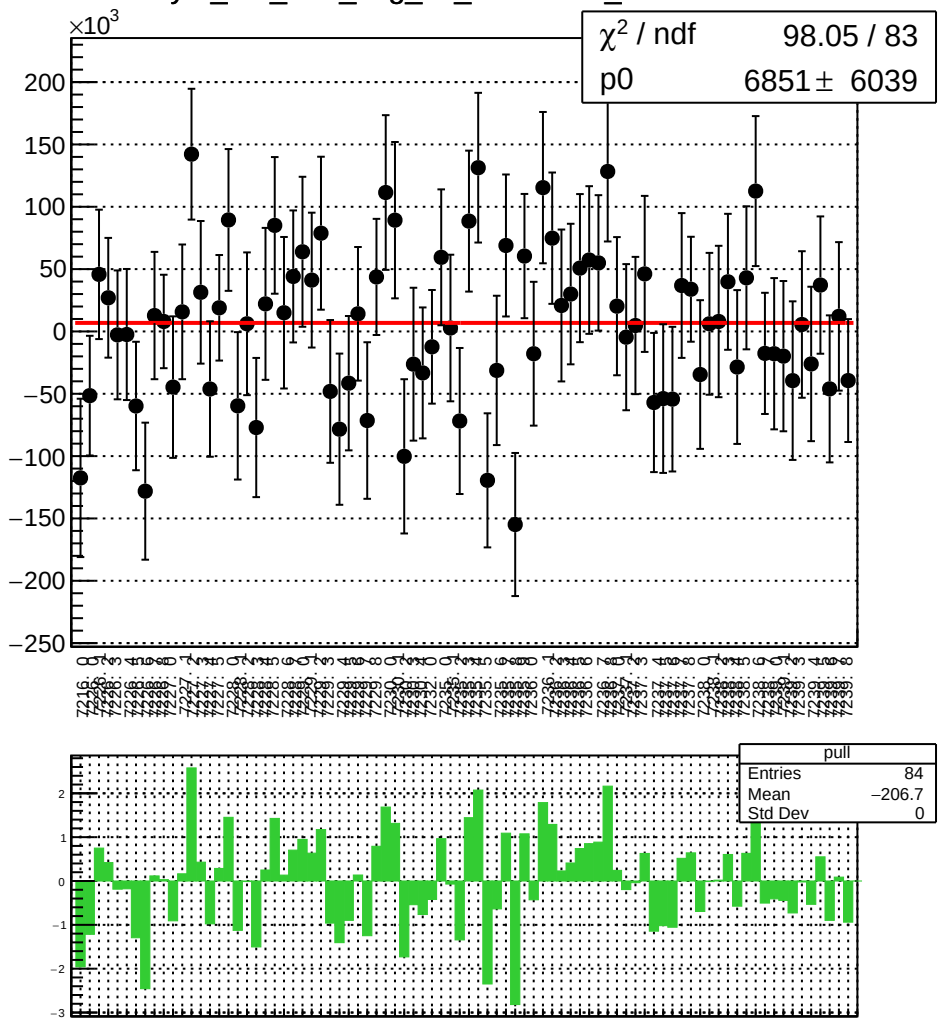

pull1D
Entries 84
Mean −0.00597
Std Dev 1.086

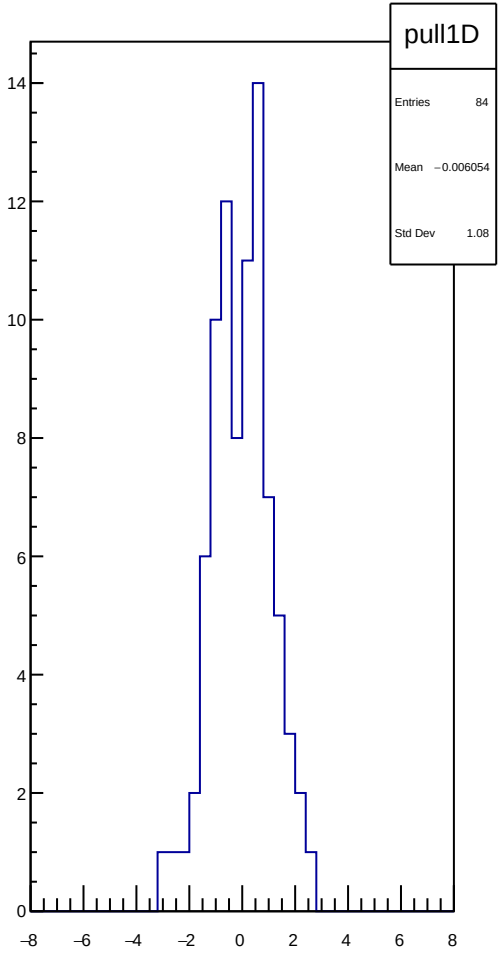

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ² / ndf 7034 / 83
p0 5390 ± 4.236
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400

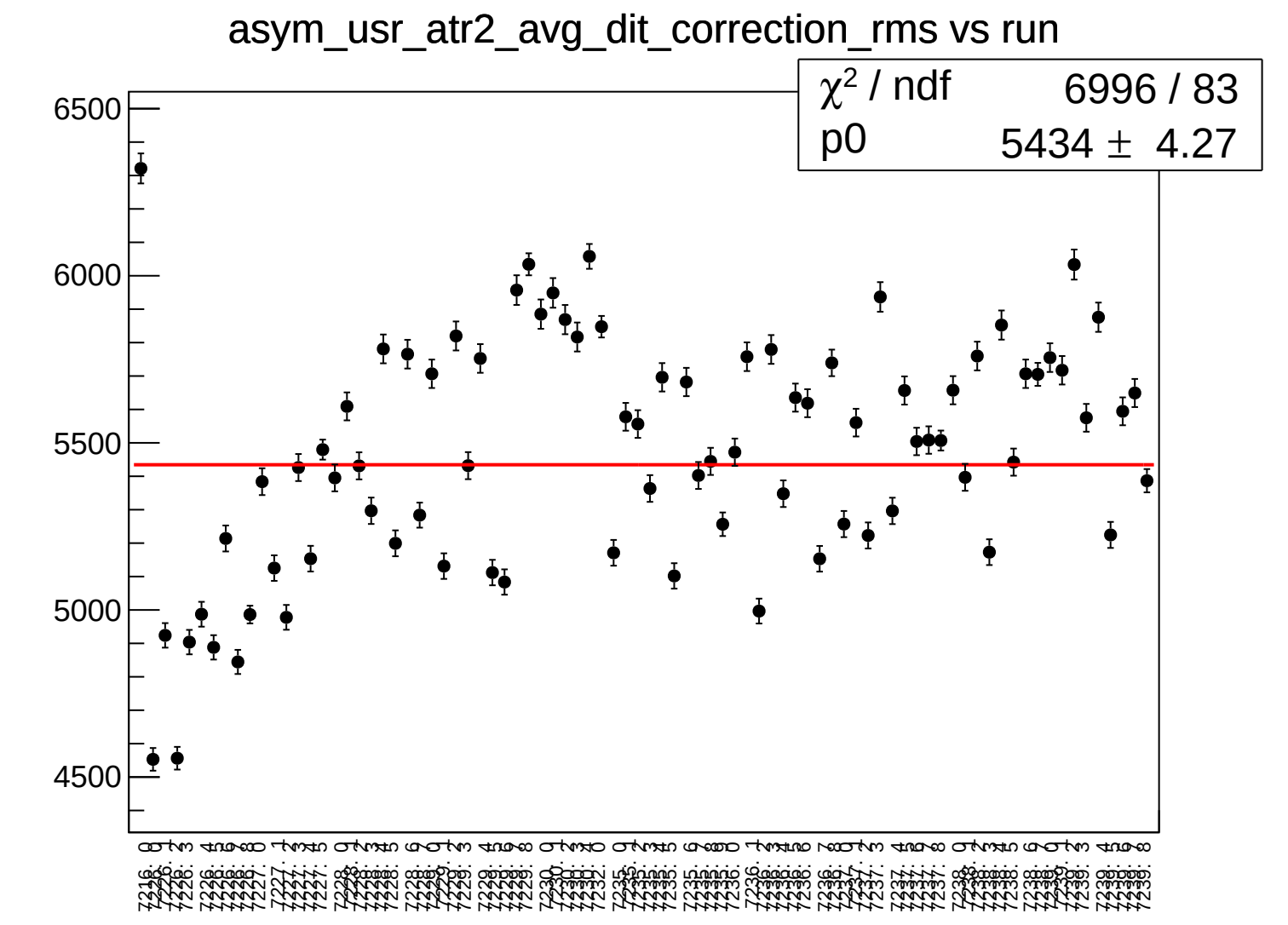

dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 86.54 / 83
p0 −3600 ± 1696
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 204.3
Std Dev 0
3
2
1
0
−1
−2

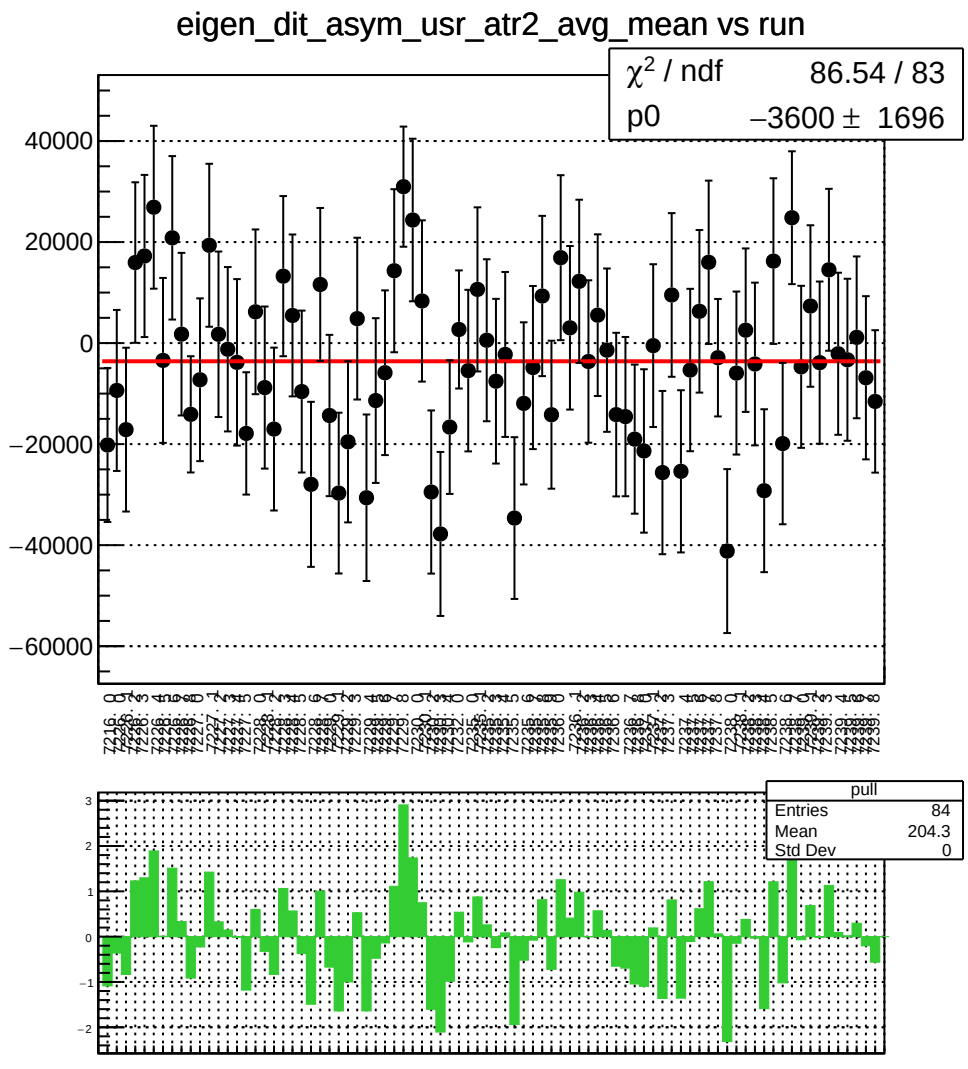

pull1D
Entries 84
Mean −0.006724
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

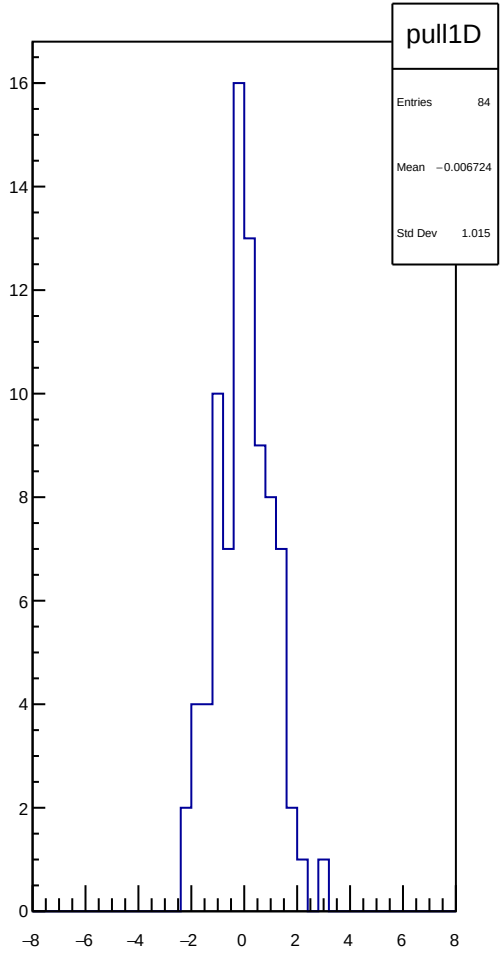

dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 151.2 / 83
p0 1529 ± 1.199
1580
1560
1540
1520
1500
1480

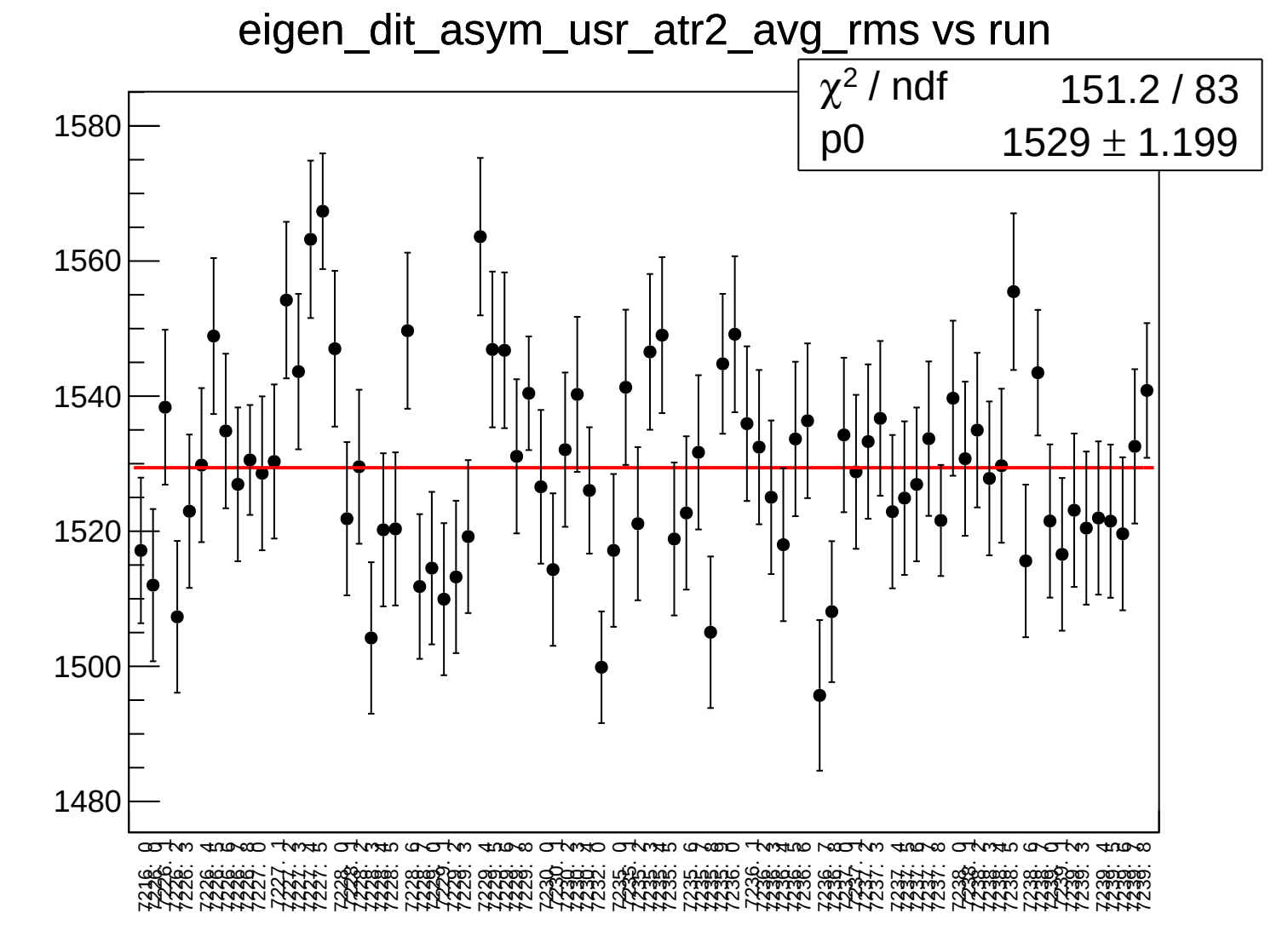

asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 98.05 / 83
p0 6851 ± 6039
pull
Entries 84
Mean −206.7
Std Dev 0

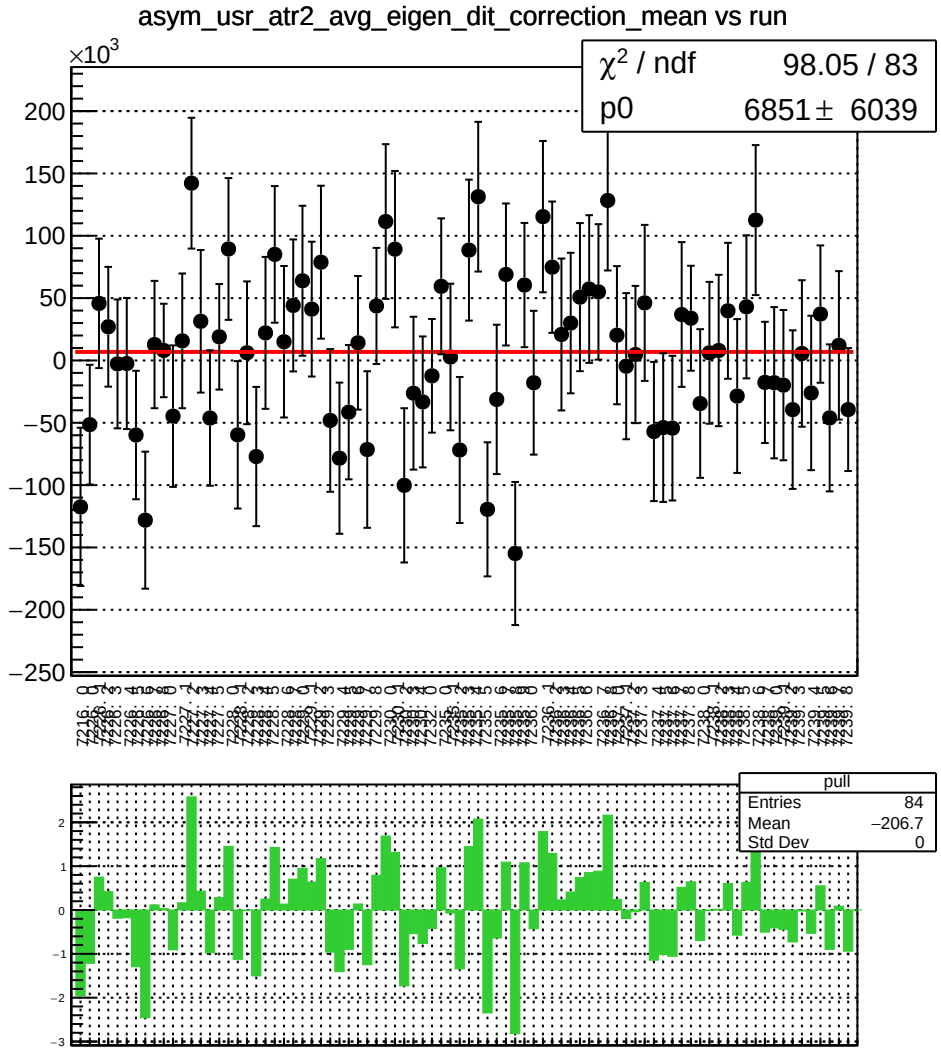

pull1D
Entries 84
Mean −0.006054
Std Dev 1.08

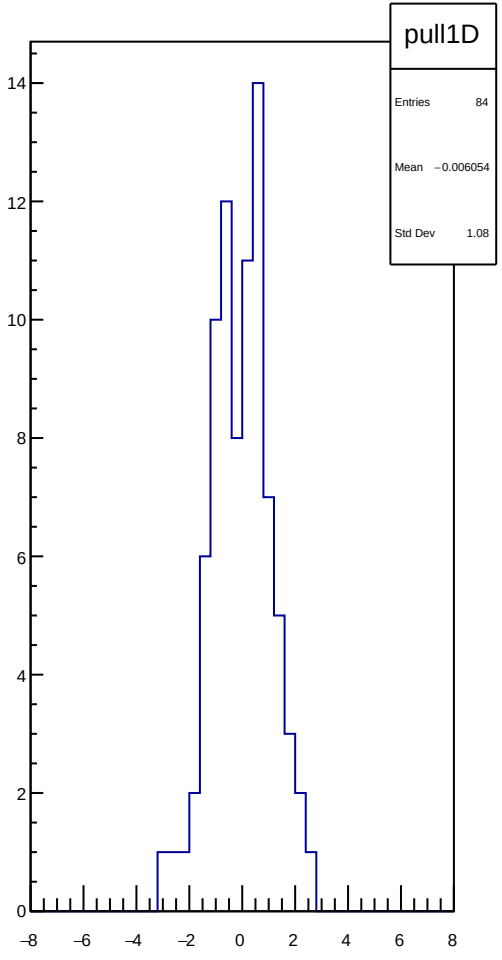

asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 6996 / 83
p0 5434 ± 4.27
6500
6000
5500
5000
4500

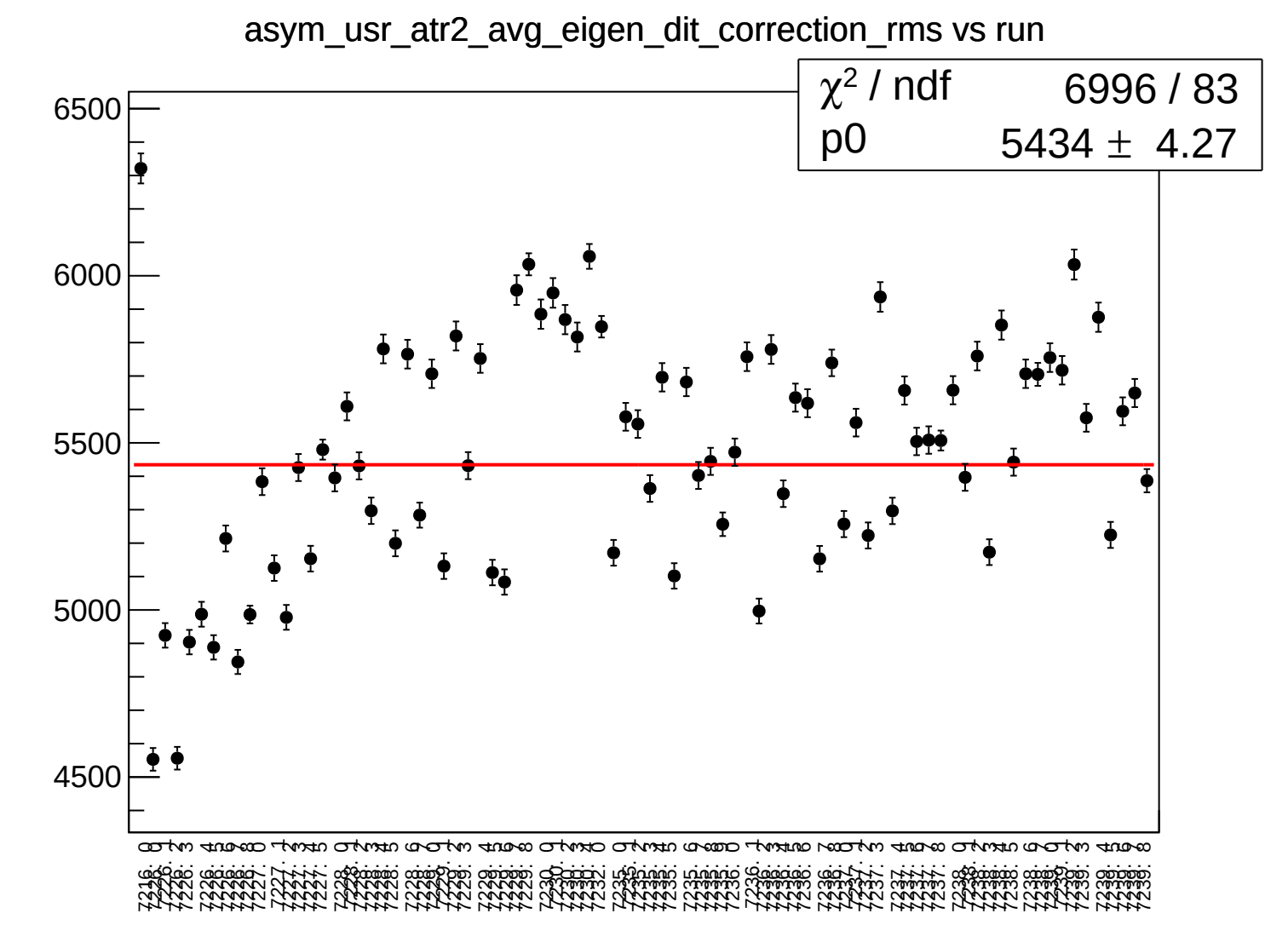

eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 86.54 / 83
p0 −3600 ± 1696
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 204.3
Std Dev 0
3
2
1
0
−1
−2

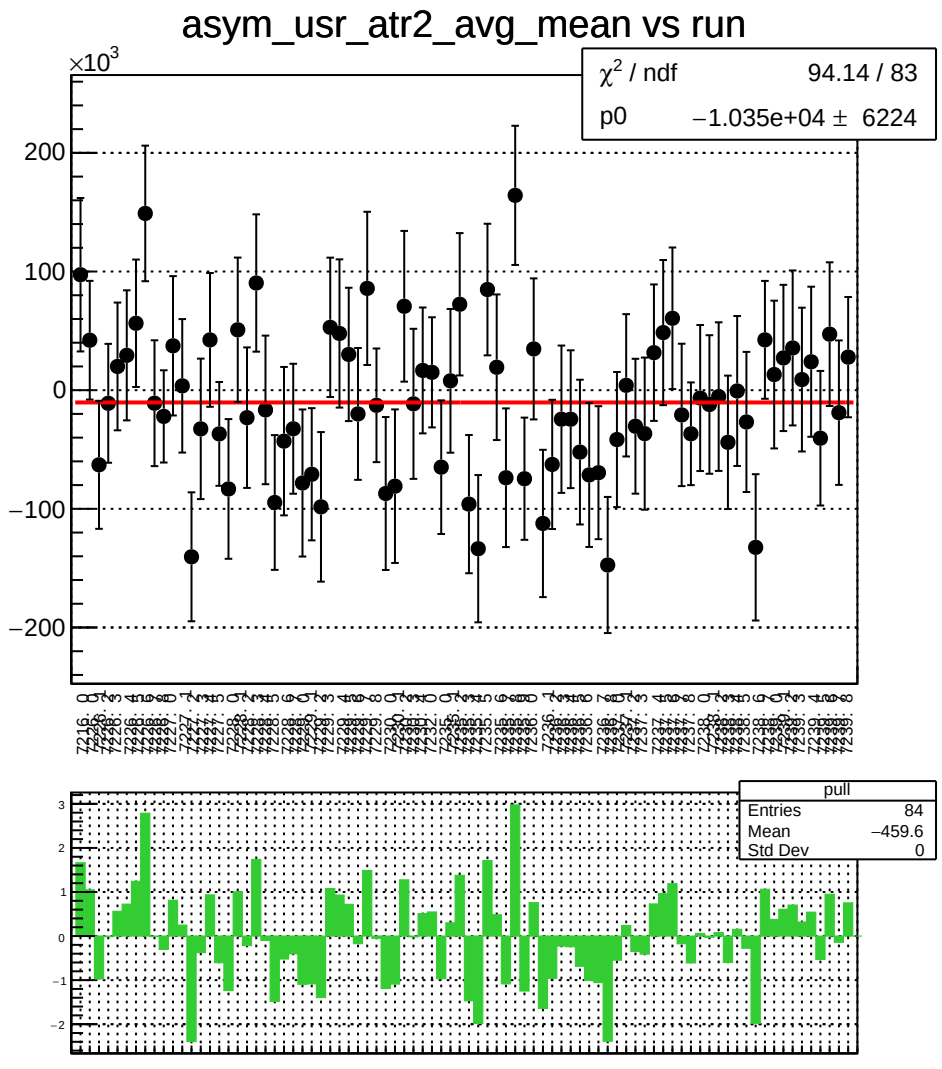

pull1D
Entries 84
Mean −0.006724
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

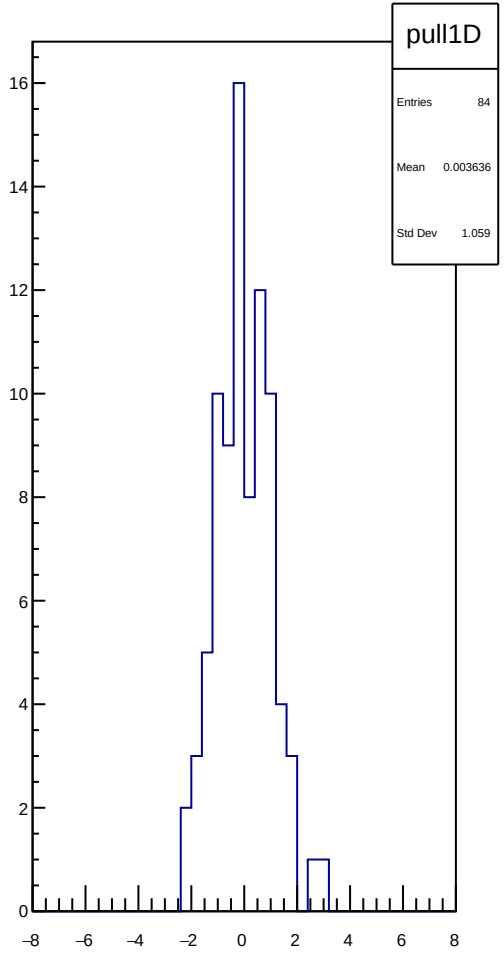

eigen_dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 151.2 / 83
p0 1529 ± 1.199
1580
1560
1540
1520
1500
1480

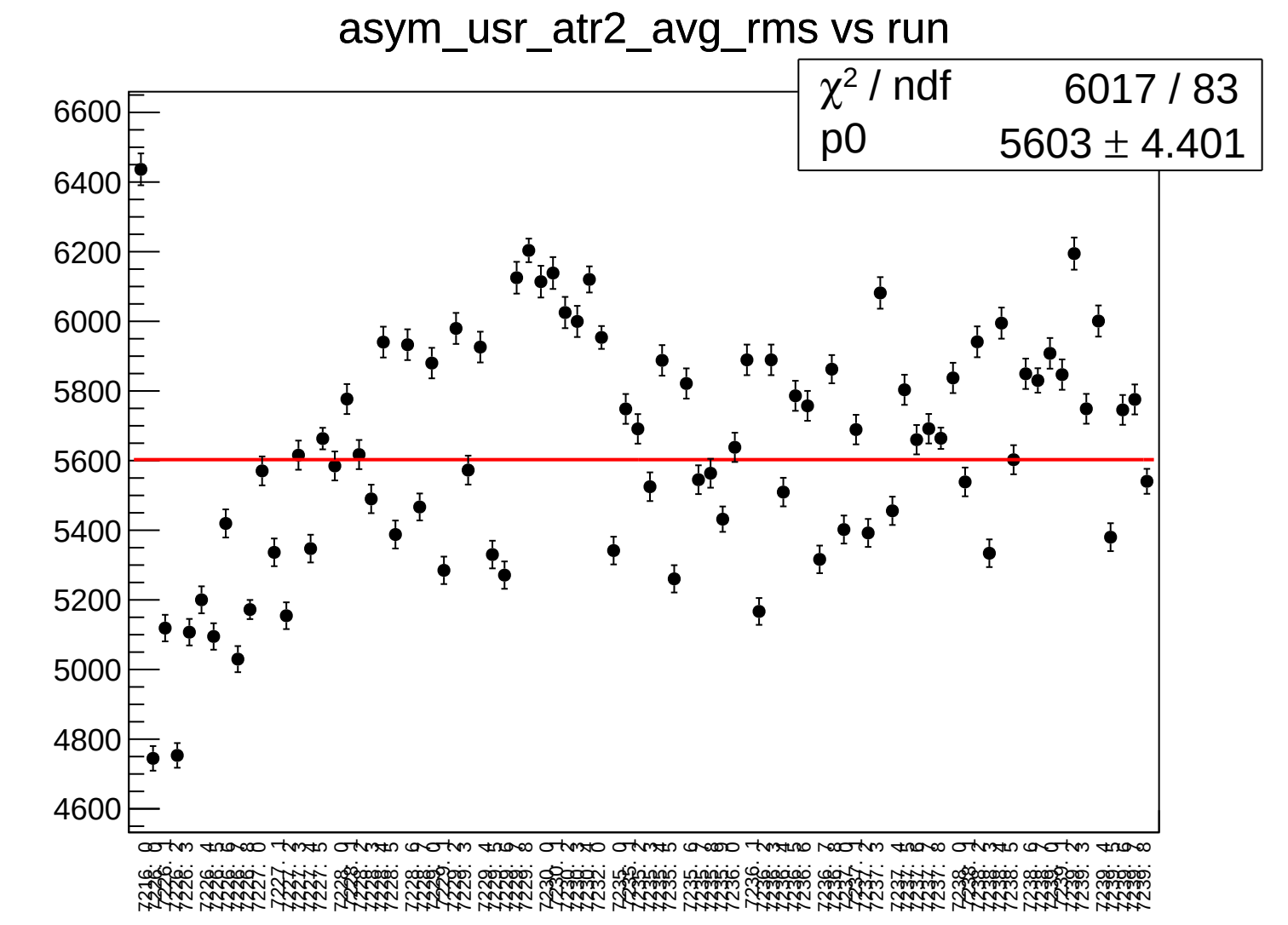

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
χ² / ndf 98.05 / 83
p0 6851 ± 6039
pull
Entries 84
Mean −206.7
Std Dev 0

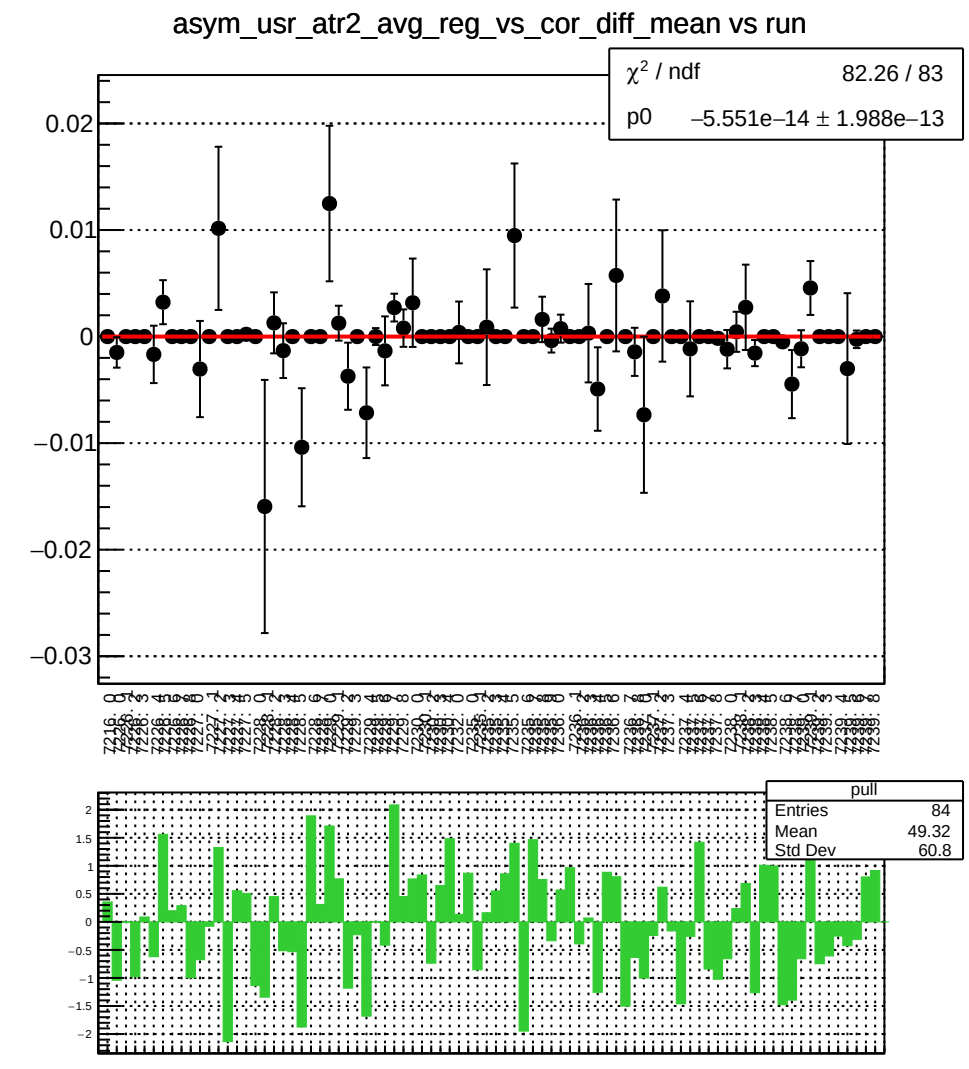

pull1D
Entries 84
Mean −0.006054
Std Dev 1.08

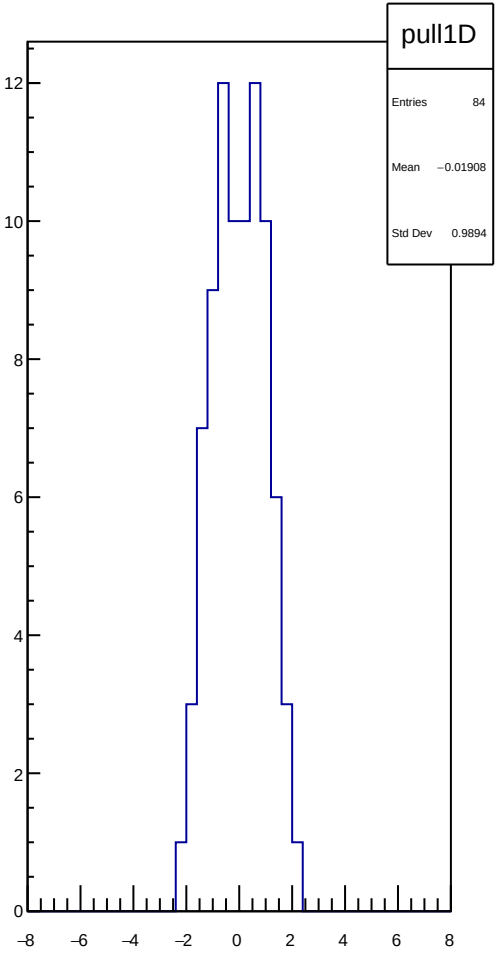

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 6996 / 83
p0 5434 ± 4.27
6500
6000
5500
5000
4500

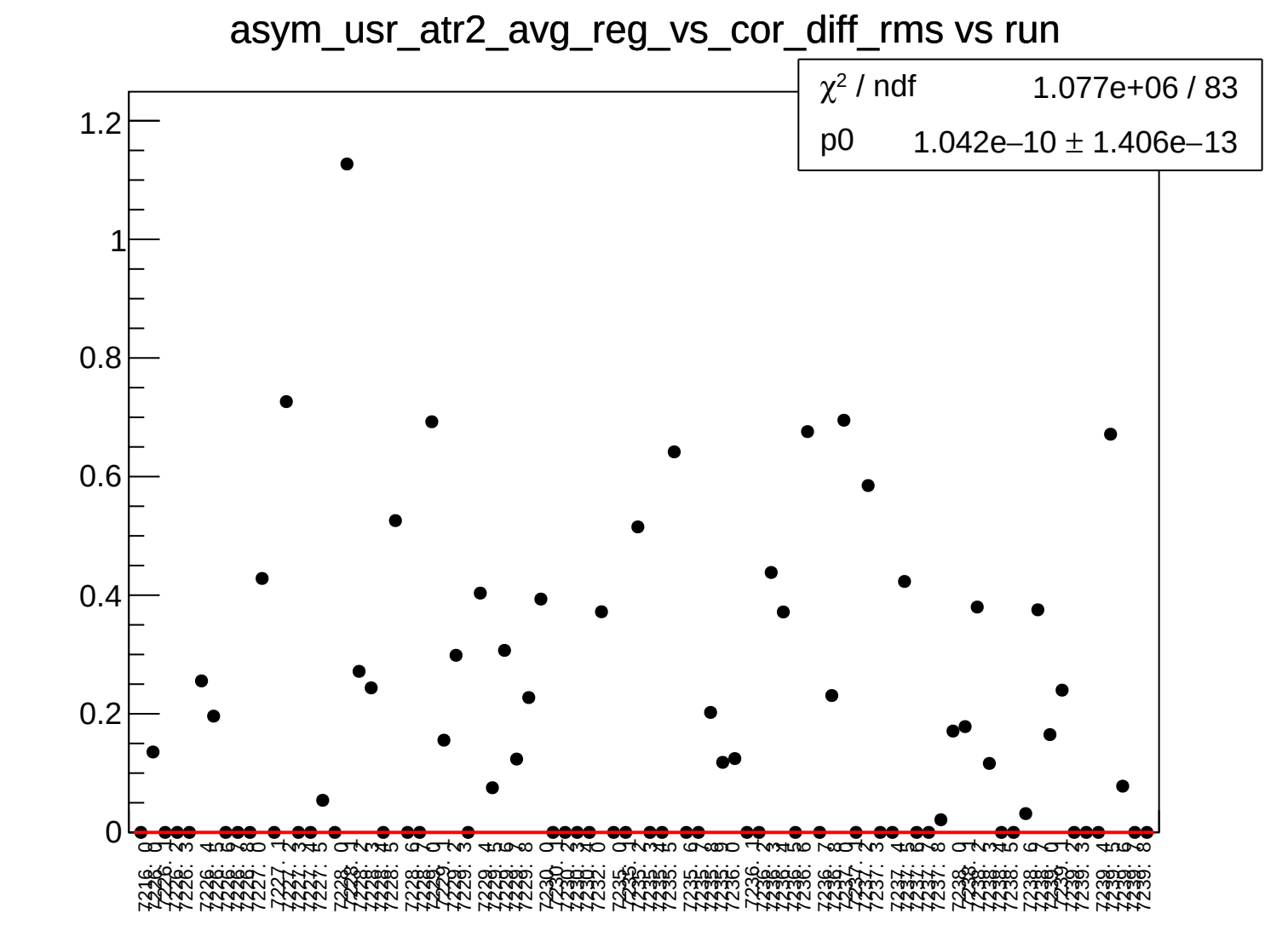

asym_usr_atr2_avg_mean vs run
×10^3
χ² / ndf 94.14 / 83
p0 −1.035e+04 ± 6224
200
100
0
−100
−200
pull
Entries 84
Mean −459.6
Std Dev 0
3
2
1
0
−1
−2

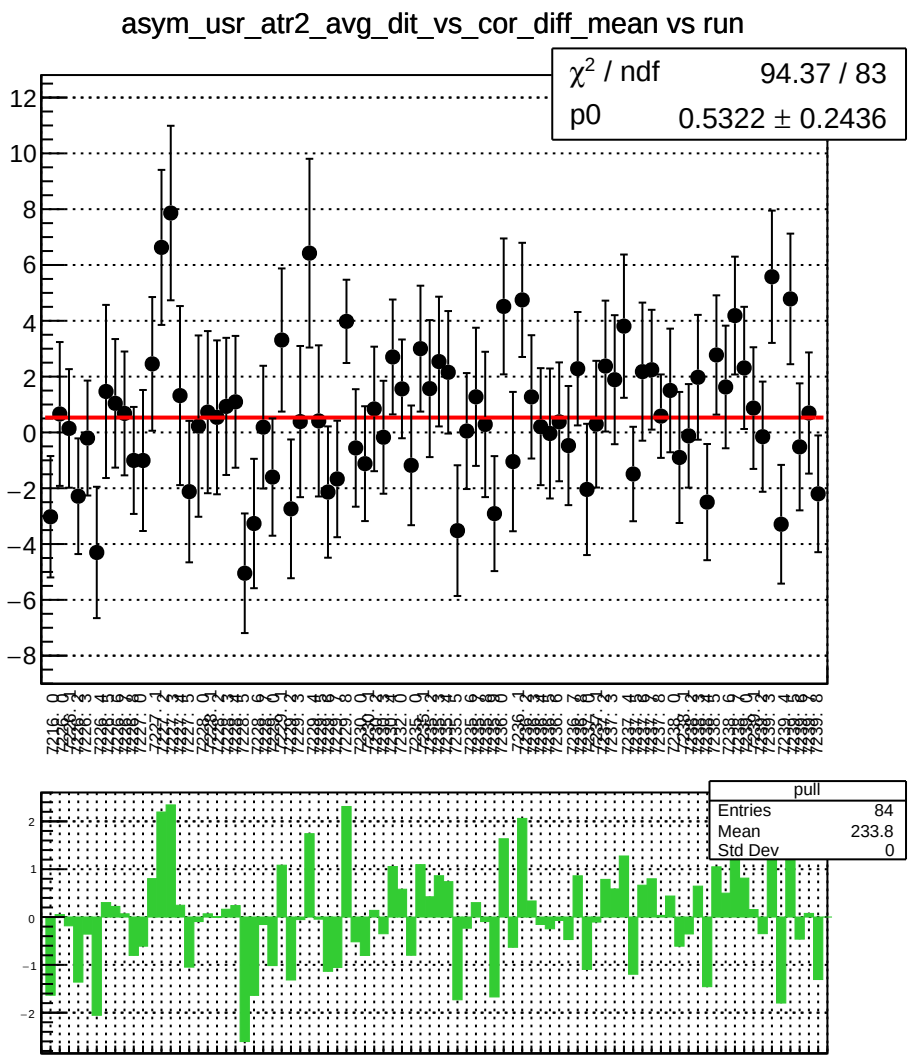

pull1D
Entries 84
Mean 0.003636
Std Dev 1.059
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

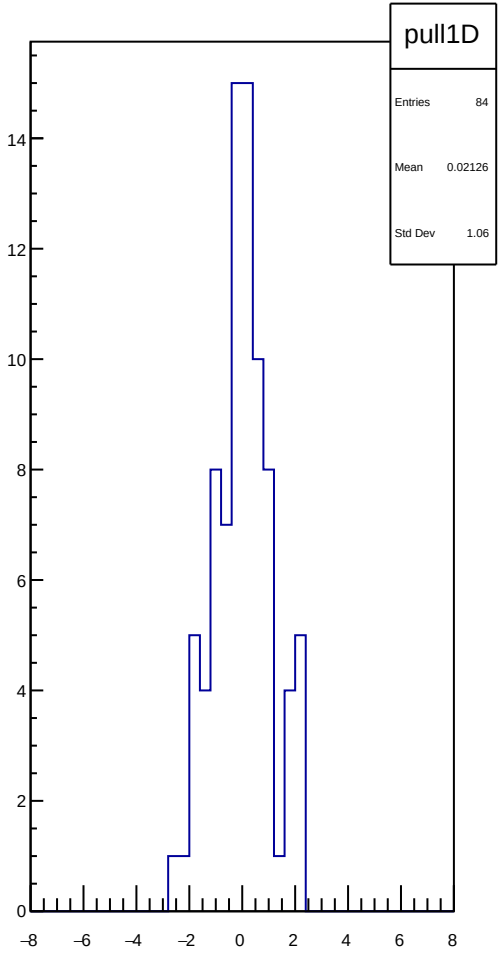

asym_usr_atr2_avg_rms vs run
χ² / ndf 6017 / 83
p0 5603 ± 4.401
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600

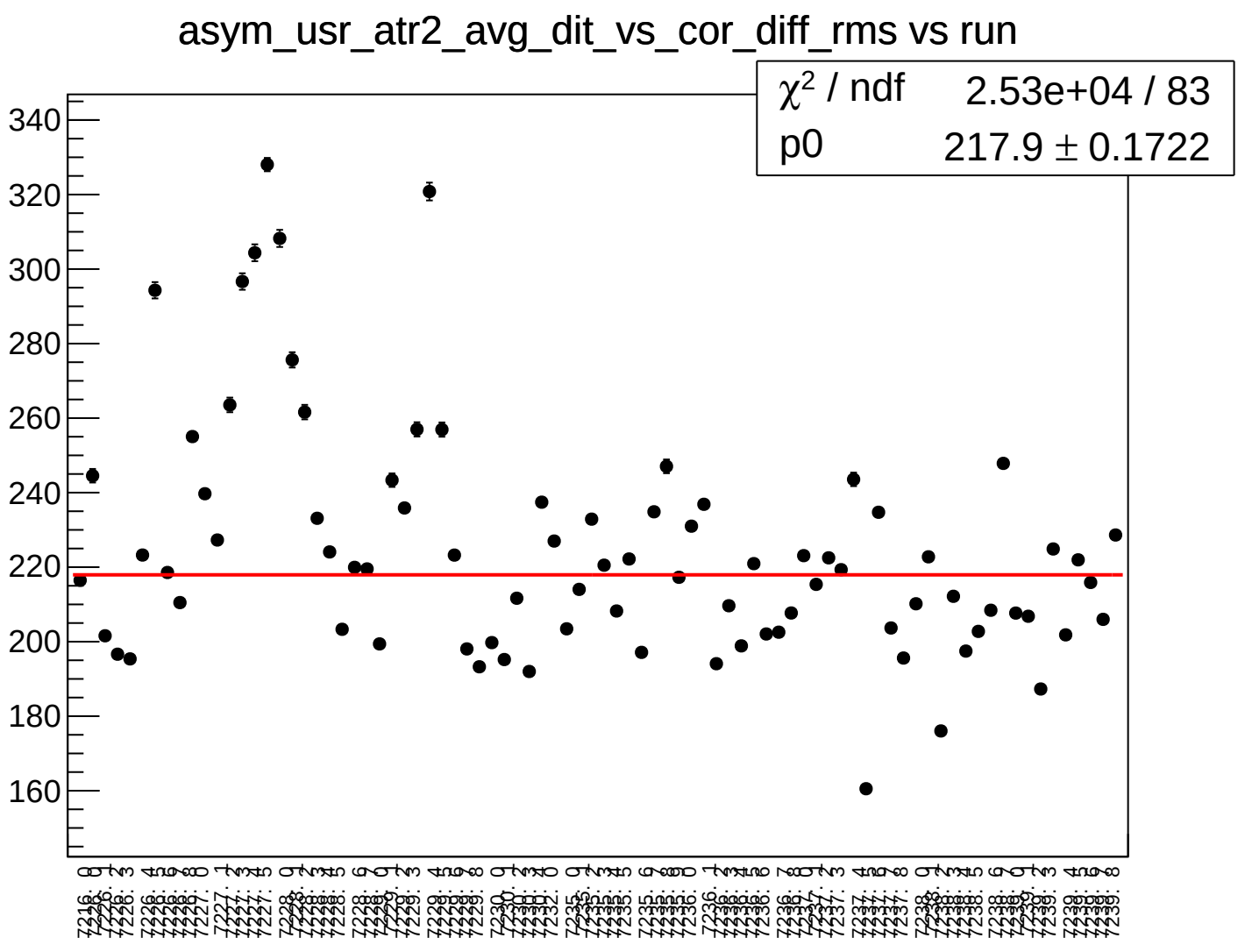

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 82.26 / 83
p0 −5.551e−14 ± 1.988e−13
pull
Entries 84
Mean 49.32
Std Dev 60.8

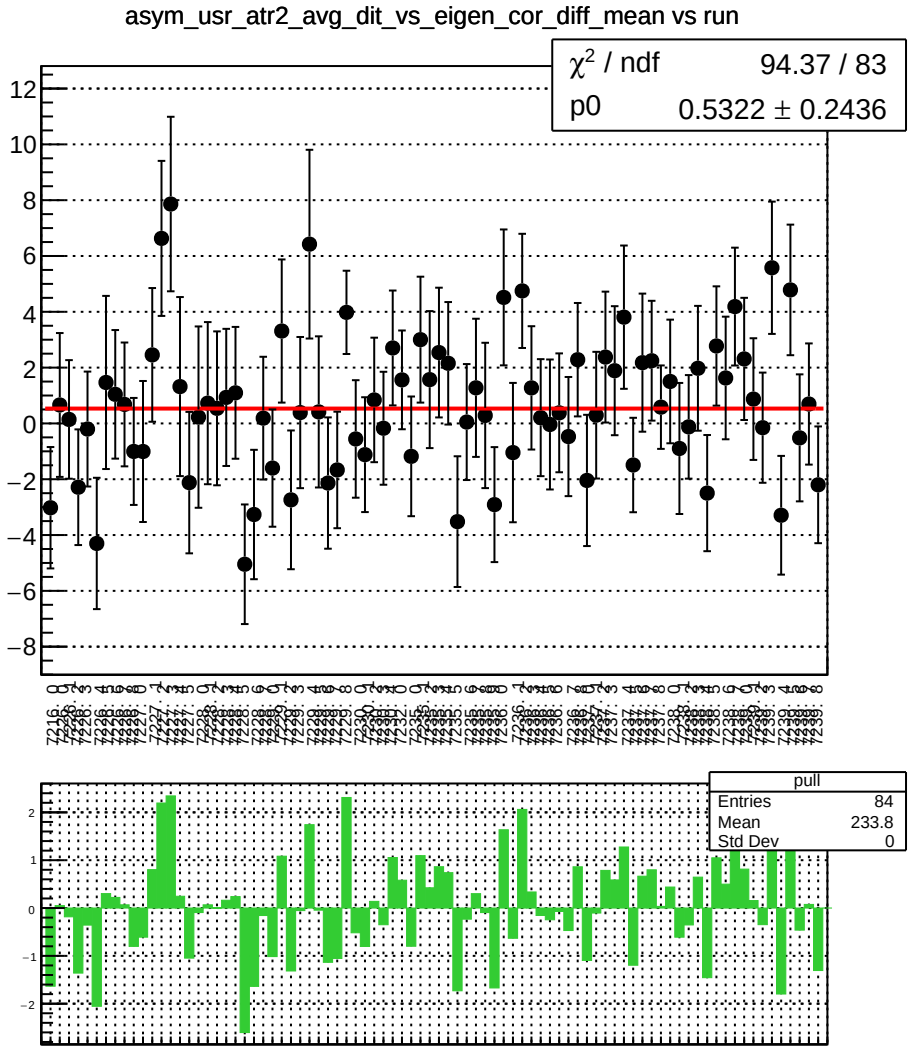

pull1D
Entries 84
Mean −0.01908
Std Dev 0.9894

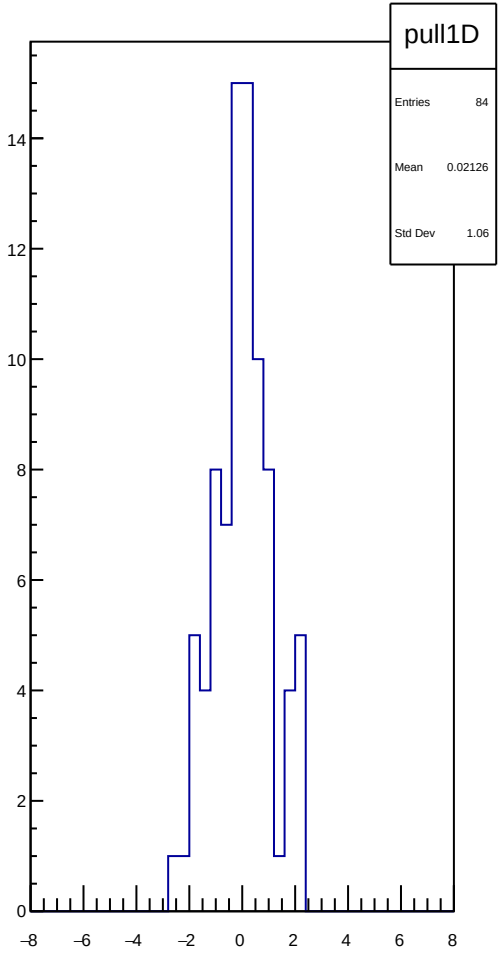

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.077e+06 / 83
p0 1.042e−10 ± 1.406e−13
1.2
1
0.8
0.6
0.4
0.2
0

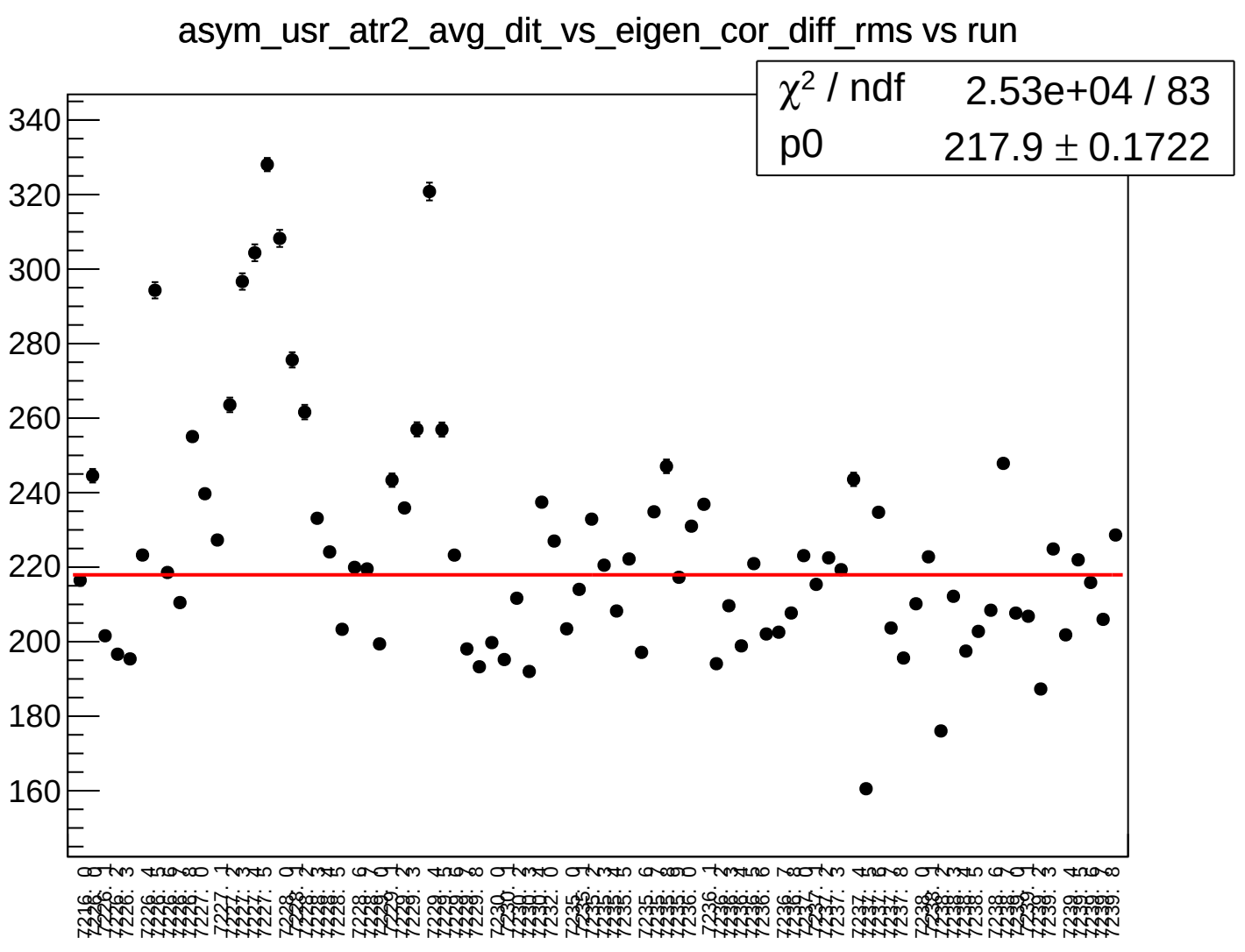

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 94.37 / 83
p0 0.5322 ± 0.2436
pull
Entries 84
Mean 233.8
Std Dev 0

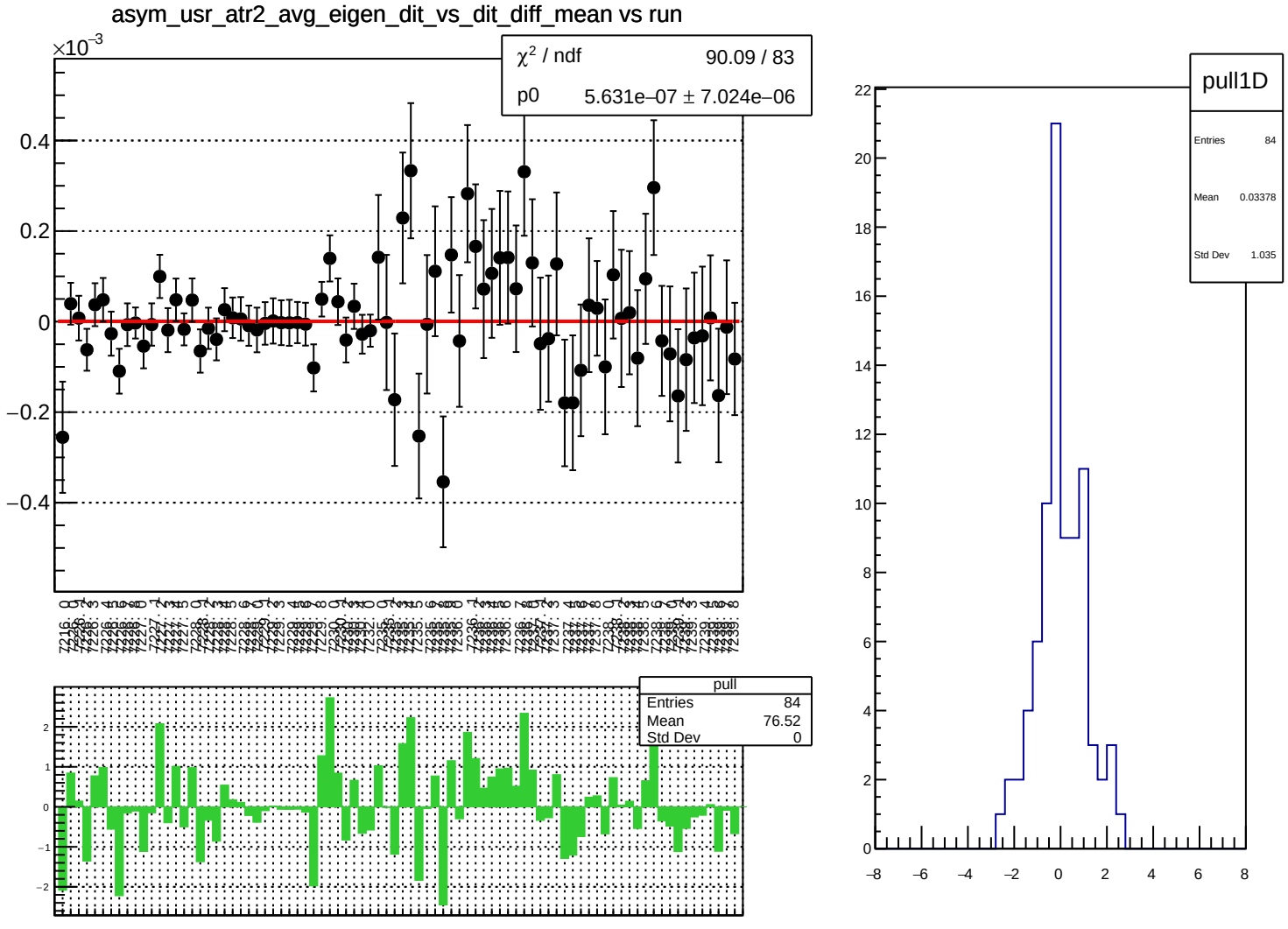

pull1D
Entries 84
Mean 0.02126
Std Dev 1.06

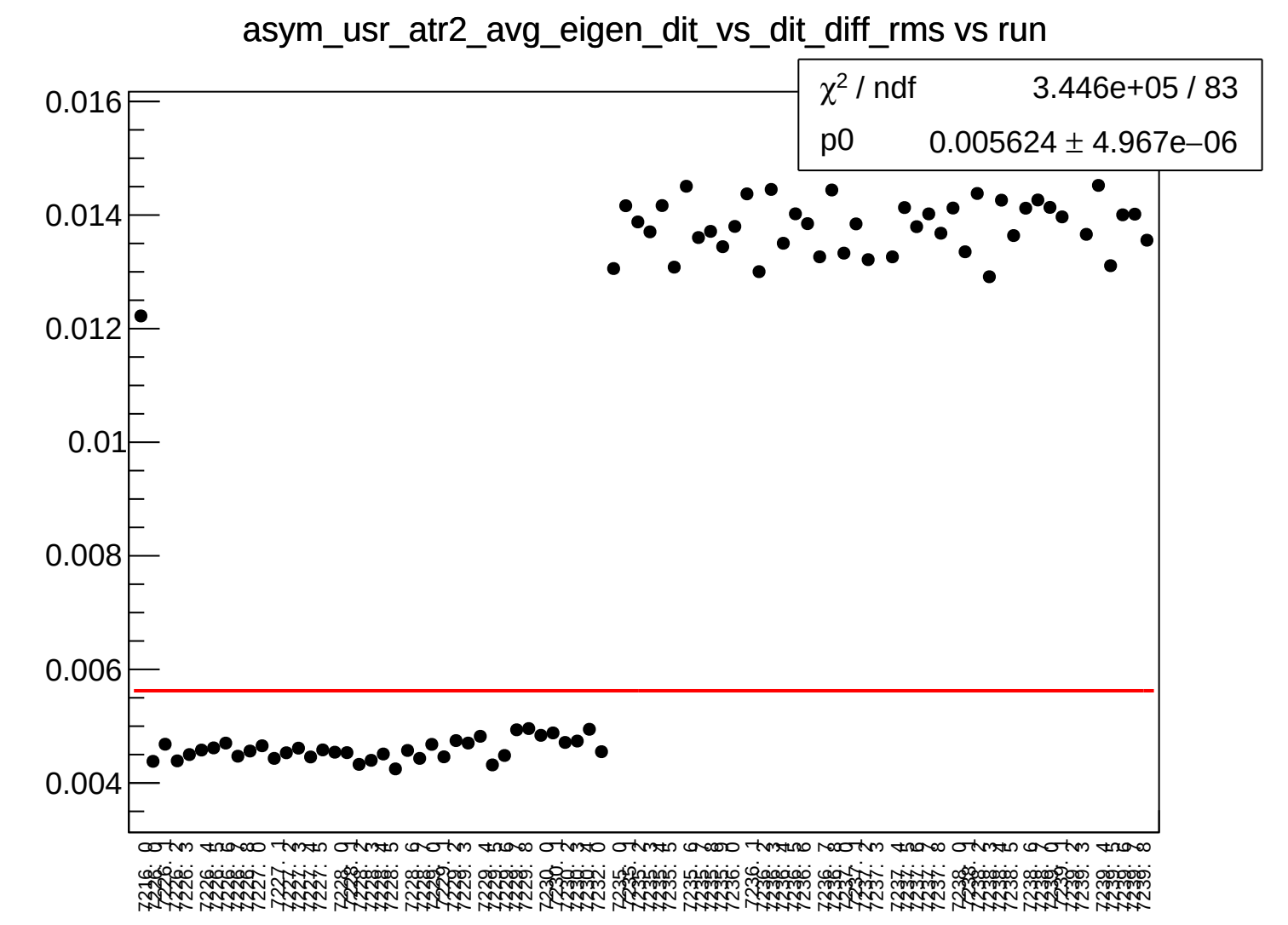

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.53e+04 / 83
p0 217.9 ± 0.1722
340
320
300
280
260
240
220
200
180
160

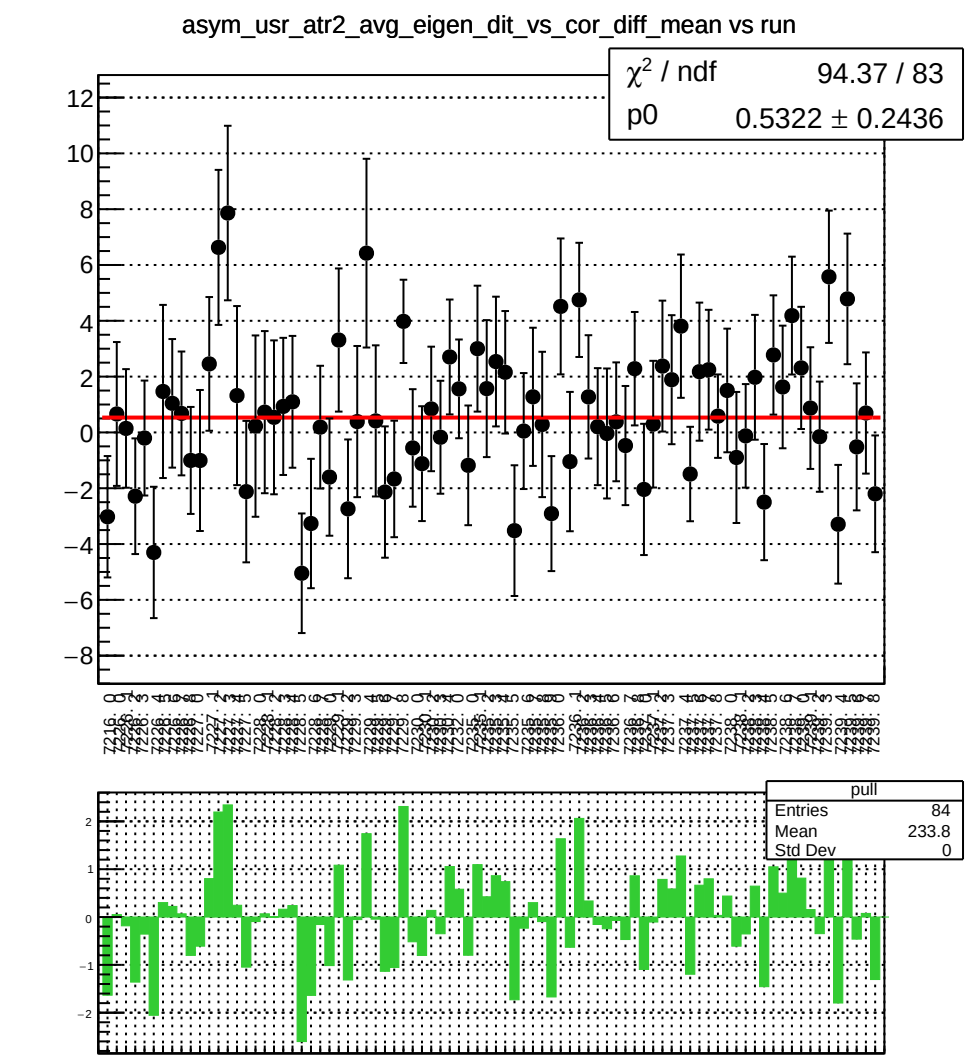

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.37 / 83
p0 0.5322 ± 0.2436
pull
Entries 84
Mean 233.8
Std Dev 0

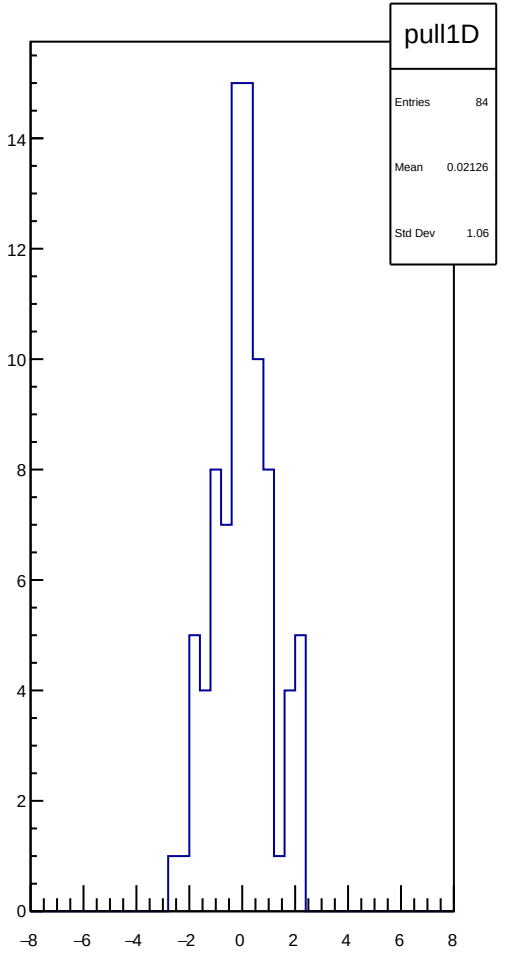

pull1D
Entries 84
Mean 0.02126
Std Dev 1.06

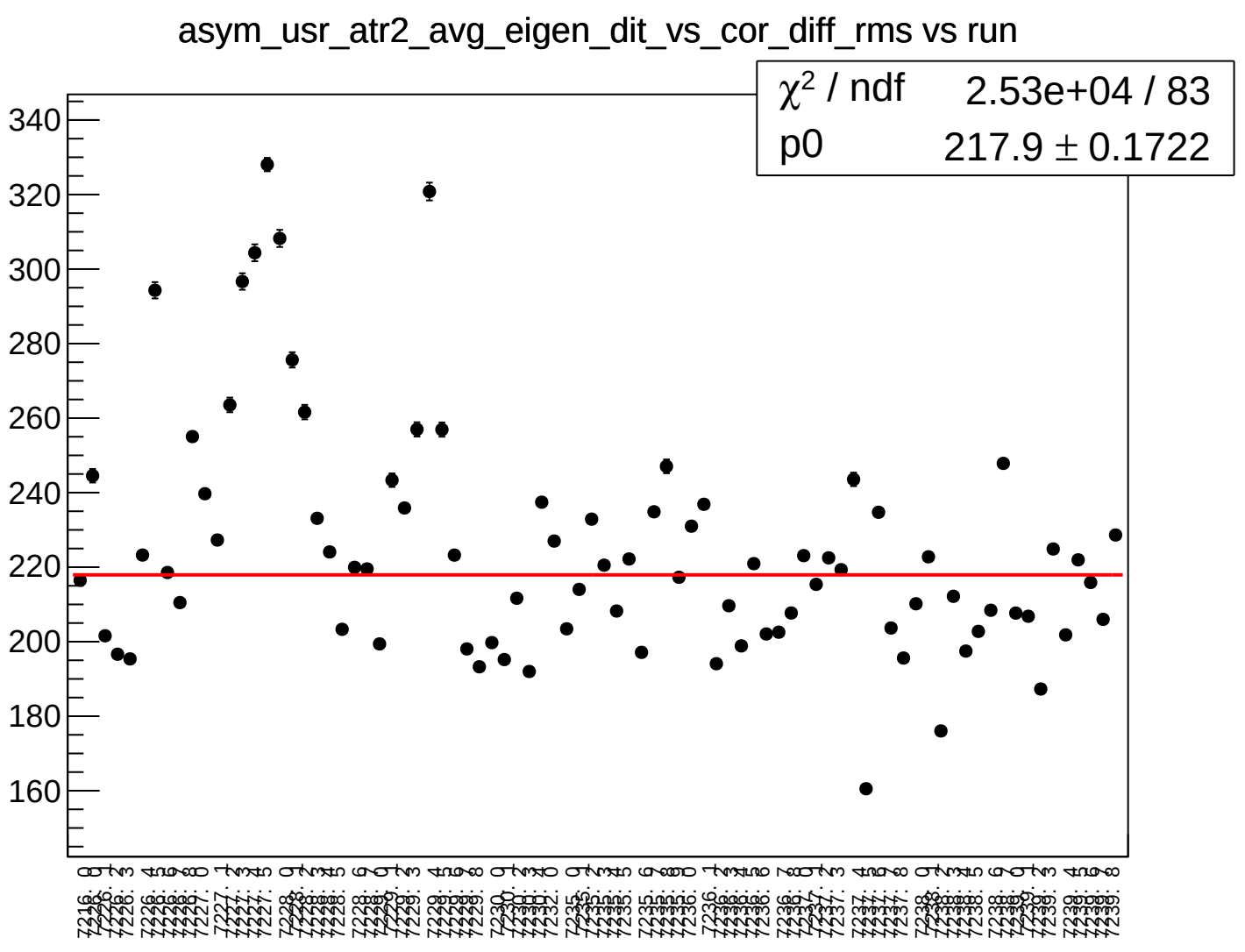

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.53e+04 / 83
p0 217.9 ± 0.1722
340
320
300
280
260
240
220
200
180
160

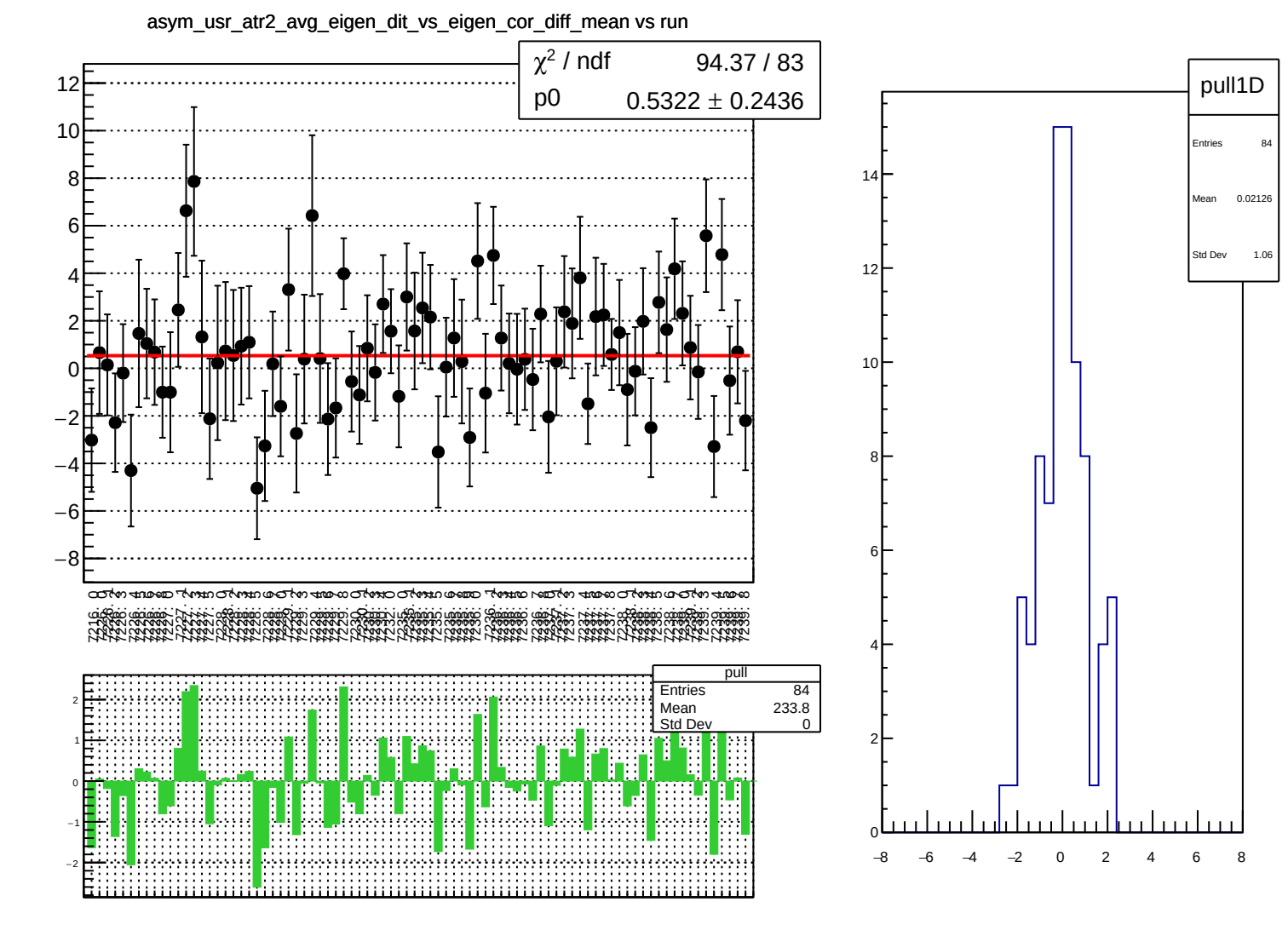

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.09 / 83
p0 5.631e−07 ± 7.024e−06
0.4
0.2
0
−0.2
−0.4
pull
Entries 84
Mean 76.52
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.03378
Std Dev 1.035
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

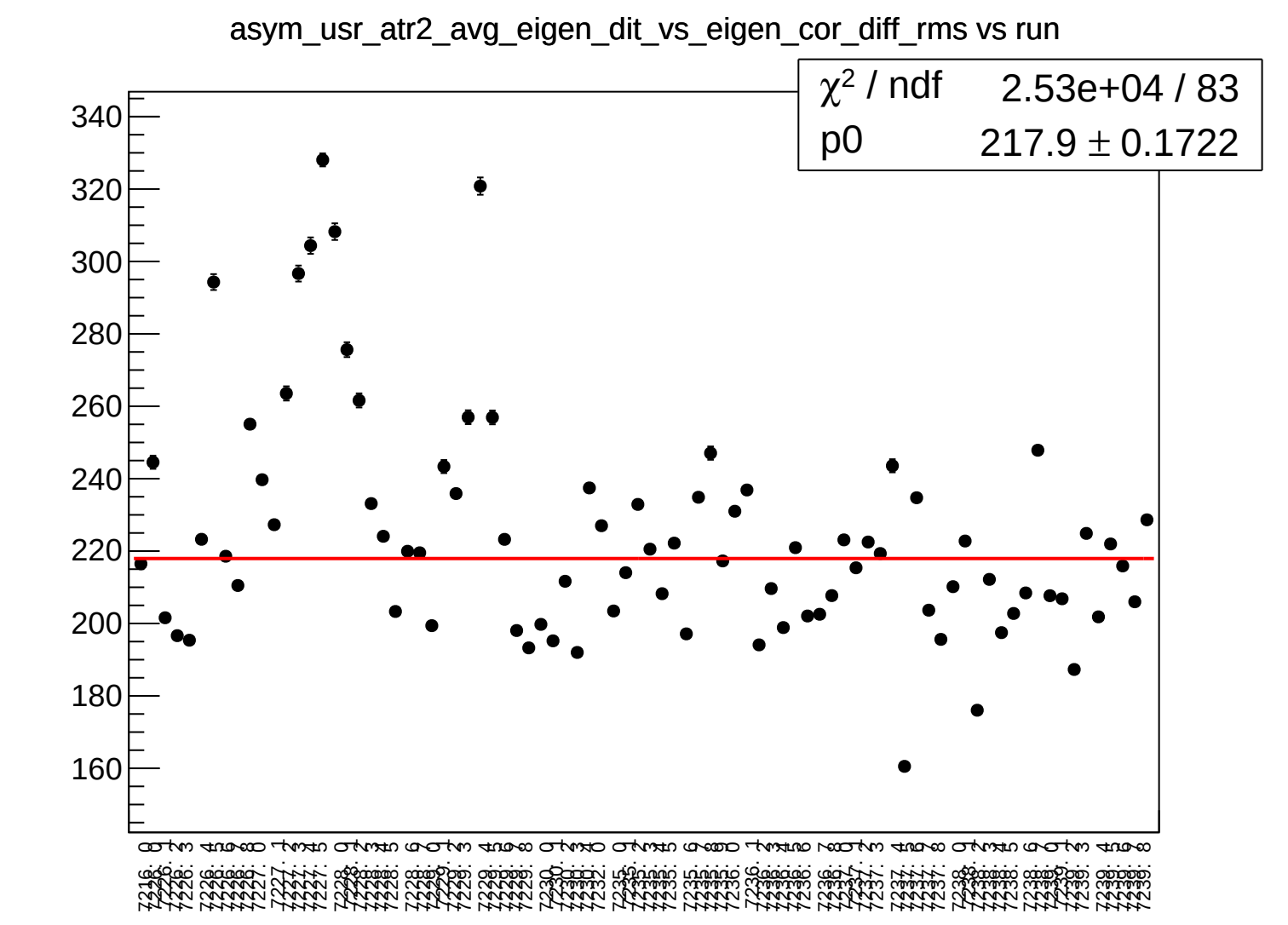

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.446e+05 / 83
p0 0.005624 ± 4.967e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

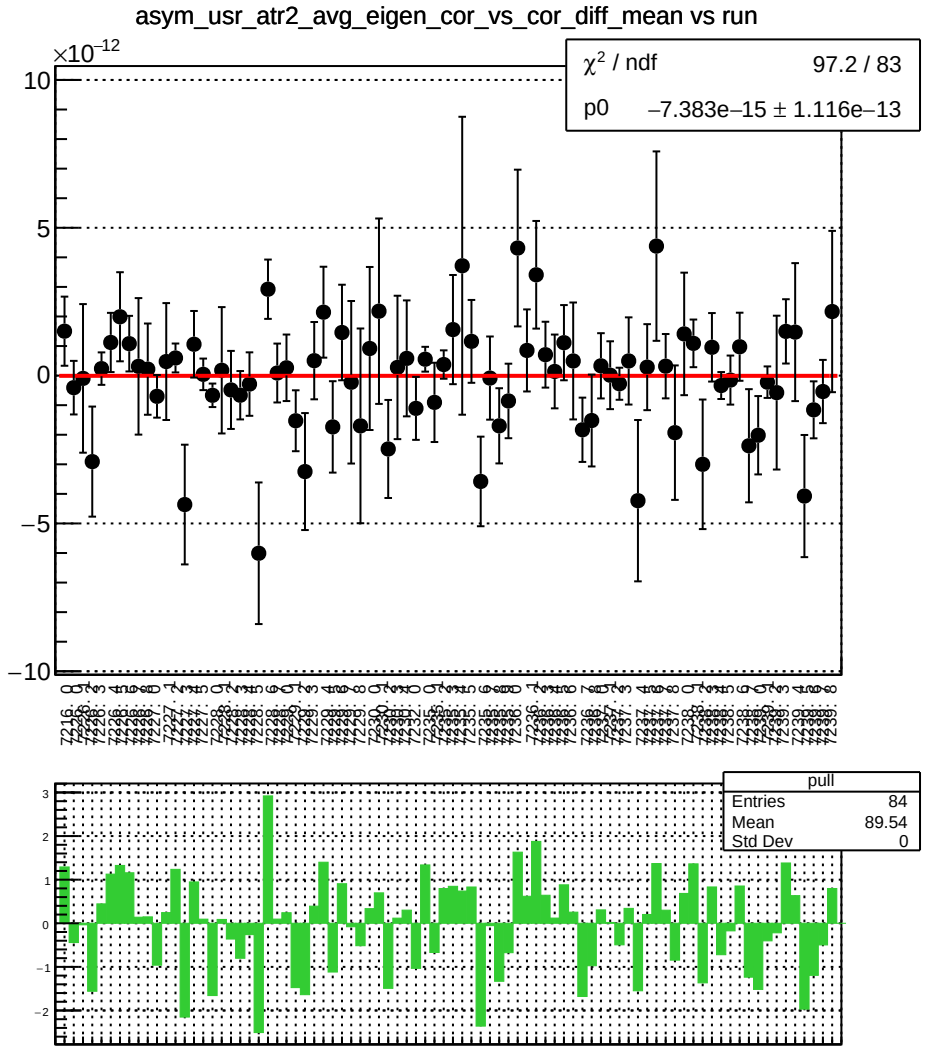

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.37 / 83
p0 0.5322 ± 0.2436
pull
Entries 84
Mean 233.8
Std Dev 0

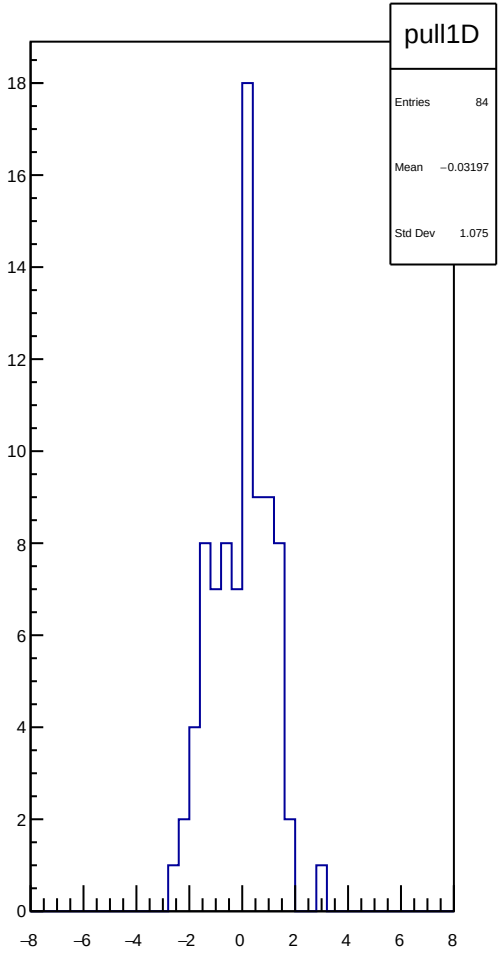

pull1D
Entries 84
Mean 0.02126
Std Dev 1.06

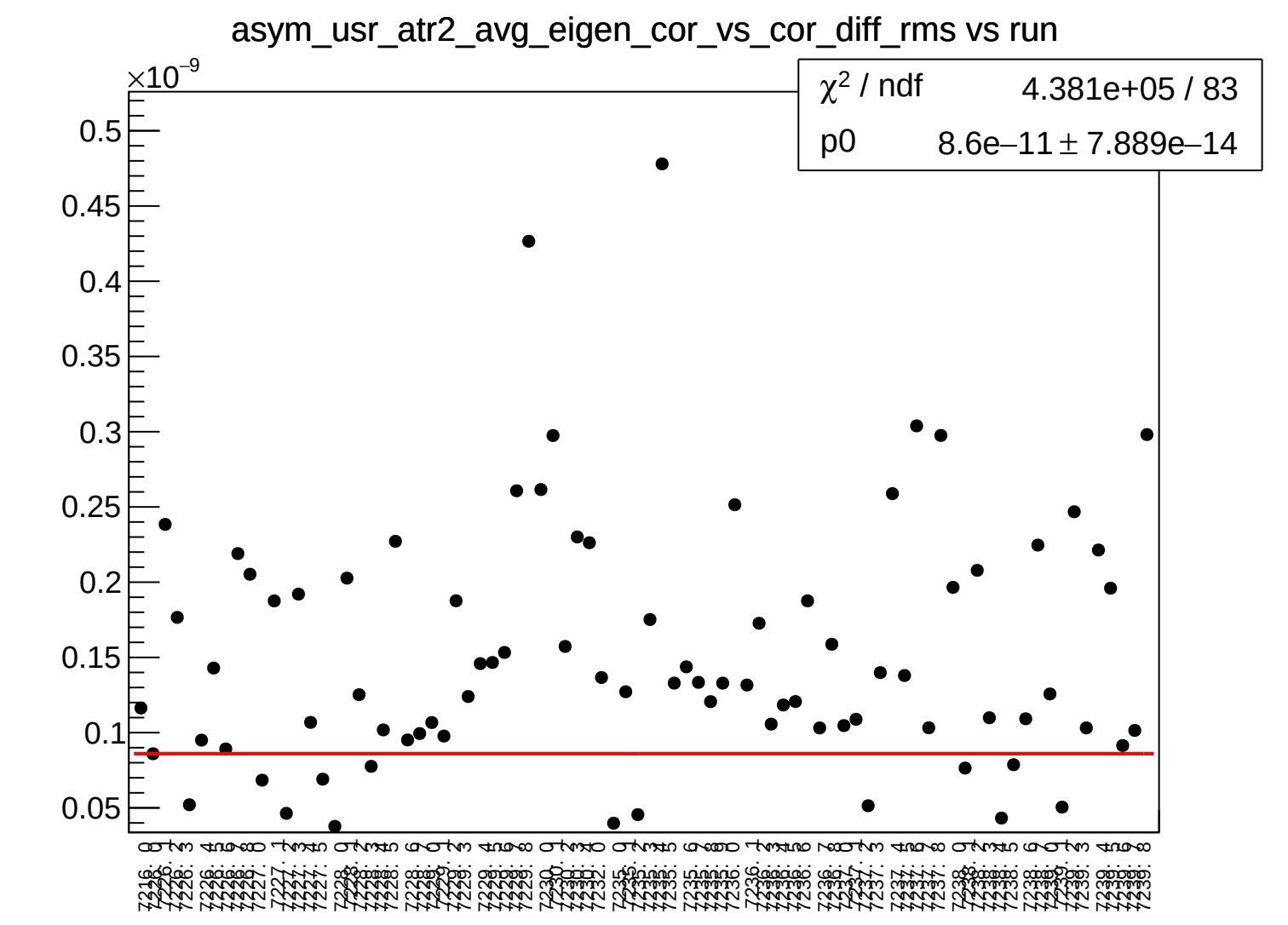

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.53e+04 / 83
p0 217.9 ± 0.1722
340
320
300
280
260
240
220
200
180
160

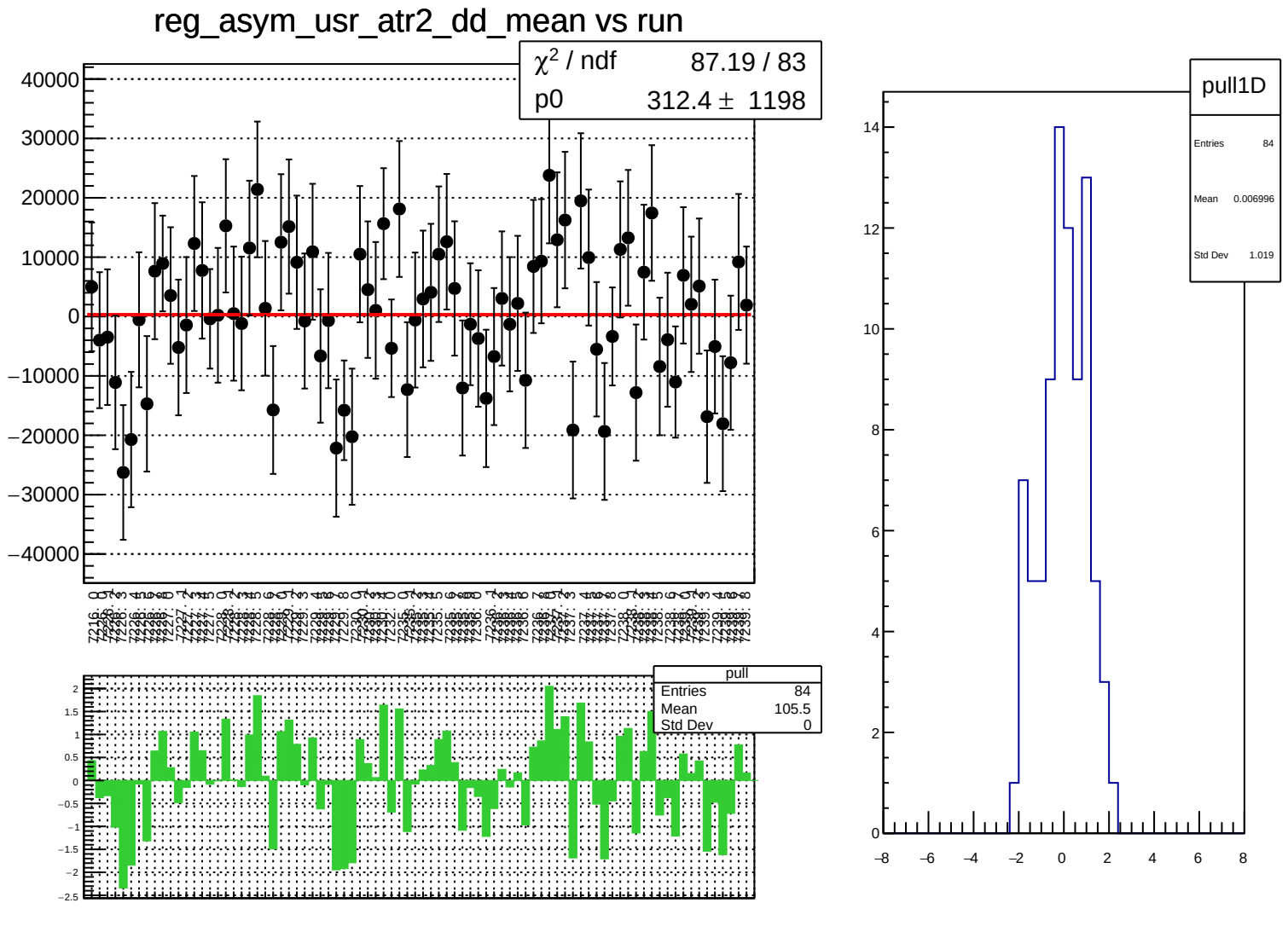

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.37 / 83
p0 0.5322 ± 0.2436
pull
Entries 84
Mean 233.8
Std Dev 0
pull1D
Entries 84
Mean 0.02126
Std Dev 1.06

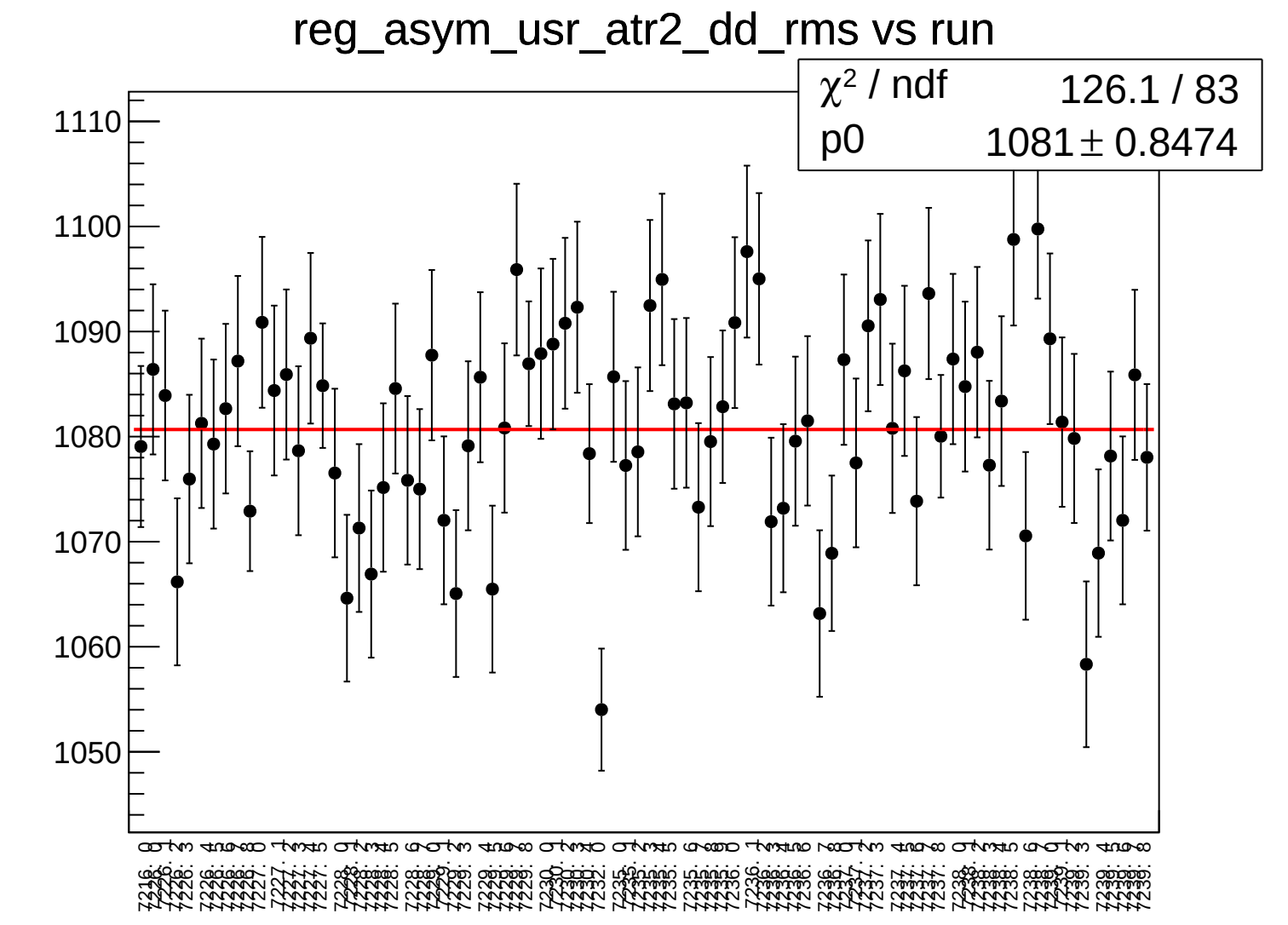

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.53e+04 / 83
p0 217.9 ± 0.1722
340
320
300
280
260
240
220
200
180
160

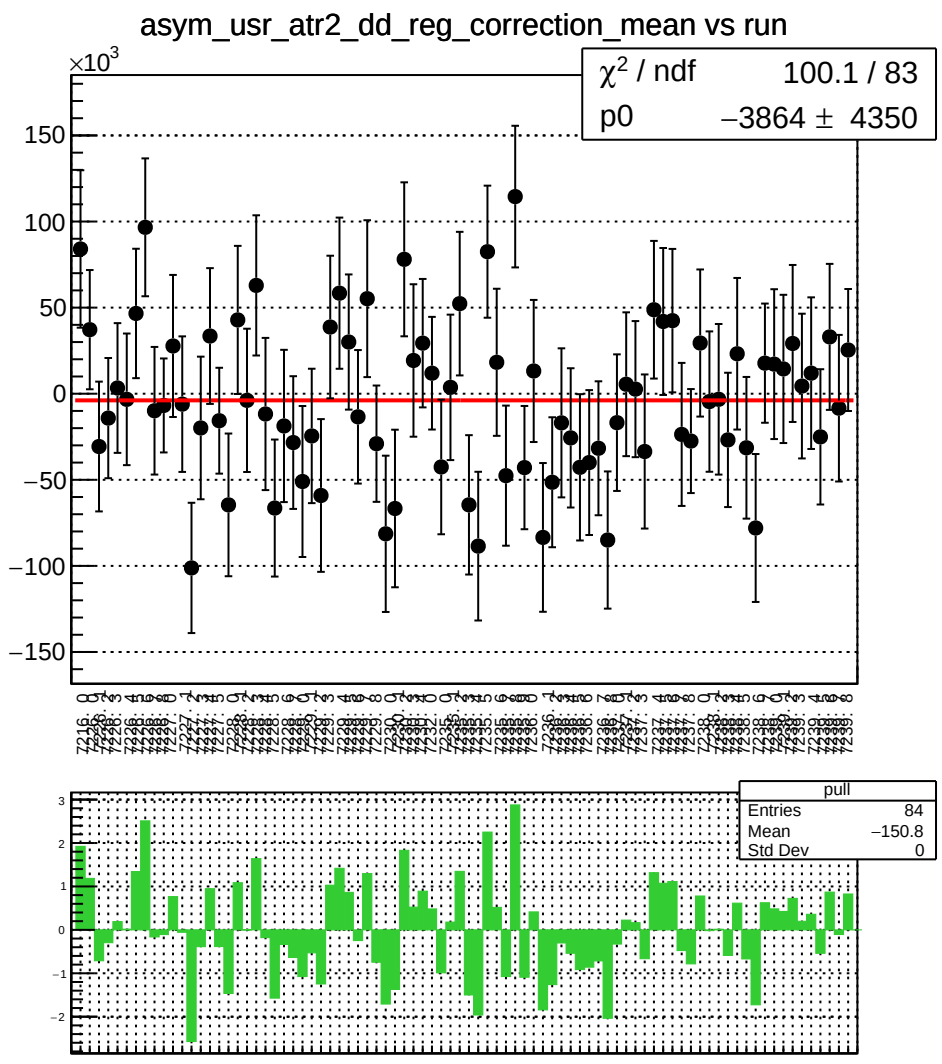

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 97.2 / 83
p0 −7.383e−15 ± 1.116e−13
pull
Entries 84
Mean 89.54
Std Dev 0

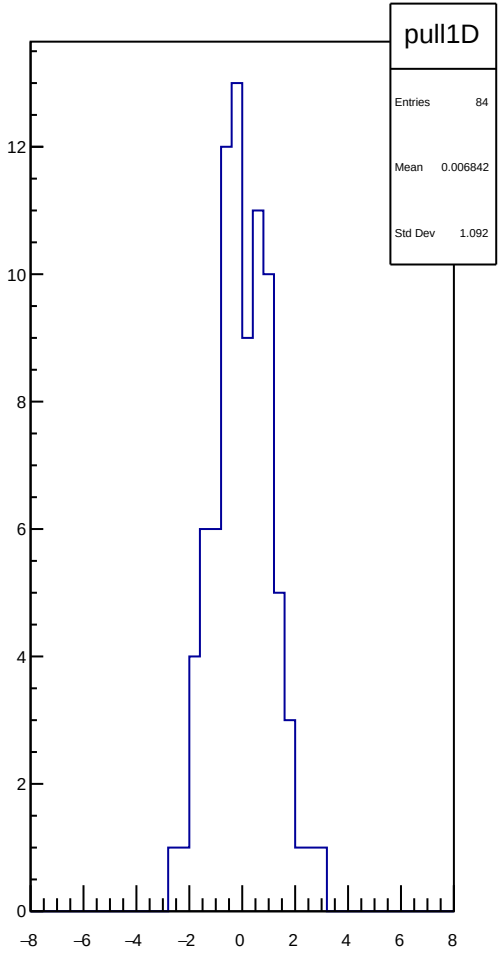

pull1D
Entries 84
Mean −0.03197
Std Dev 1.075

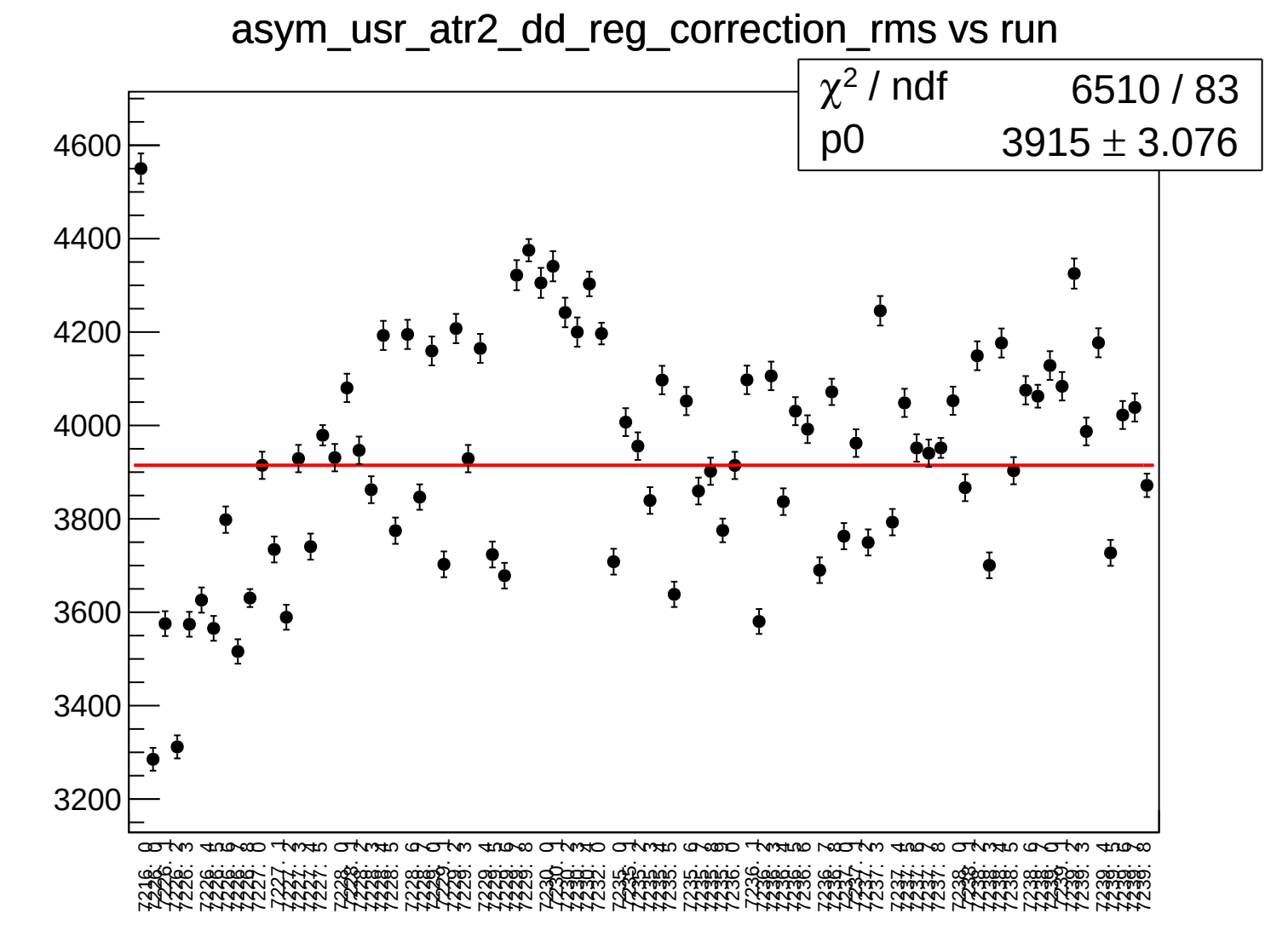

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.381e+05 / 83
p0 8.6e−11 ± 7.889e−14
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

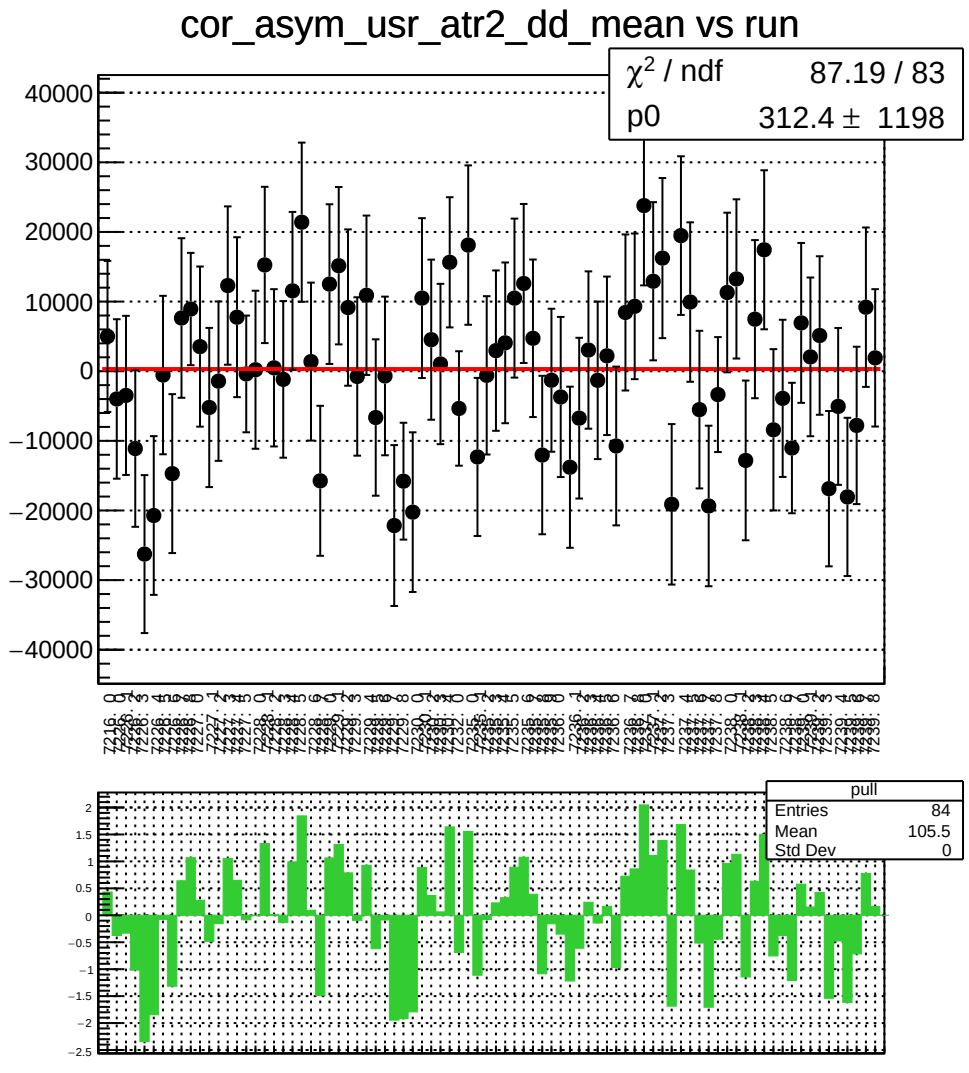

reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 87.19 / 83
p0 312.4 ± 1198
pull
Entries 84
Mean 105.5
Std Dev 0
pull1D
Entries 84
Mean 0.006996
Std Dev 1.019

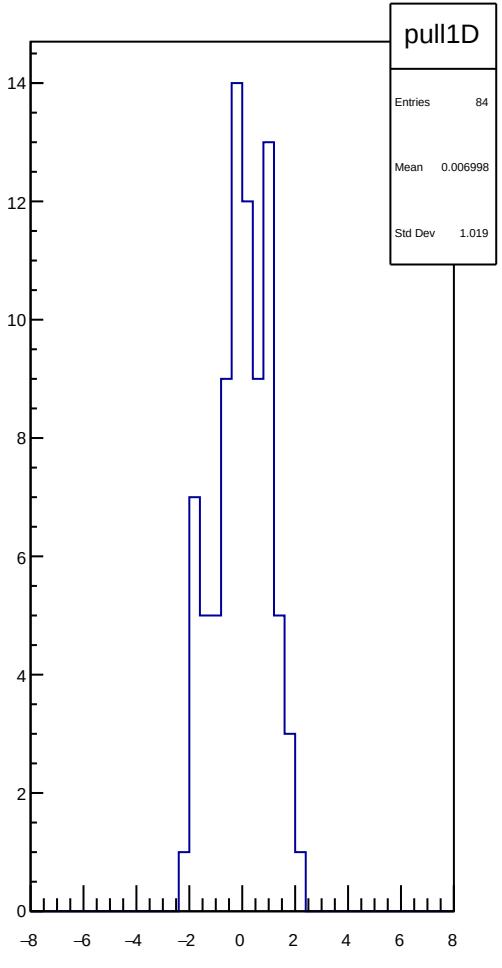

reg_asym_usr_atr2_dd_rms vs run
χ² / ndf 126.1 / 83
p0 1081 ± 0.8474
1110
1100
1090
1080
1070
1060
1050

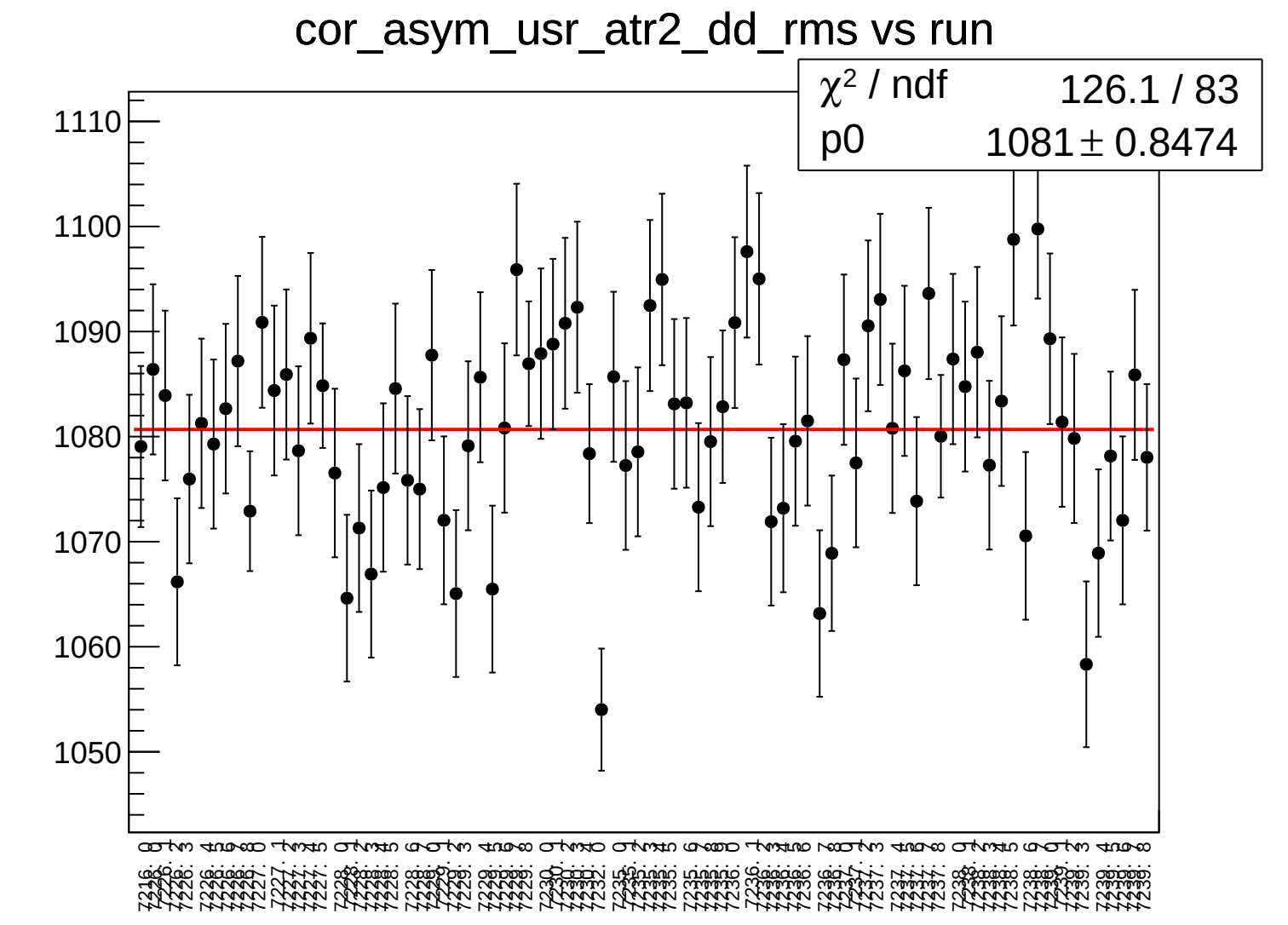

asym_usr_atr2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 100.1 / 83
p0 −3864 ± 4350
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −150.8
Std Dev 0
3
2
1
0
−1
−2

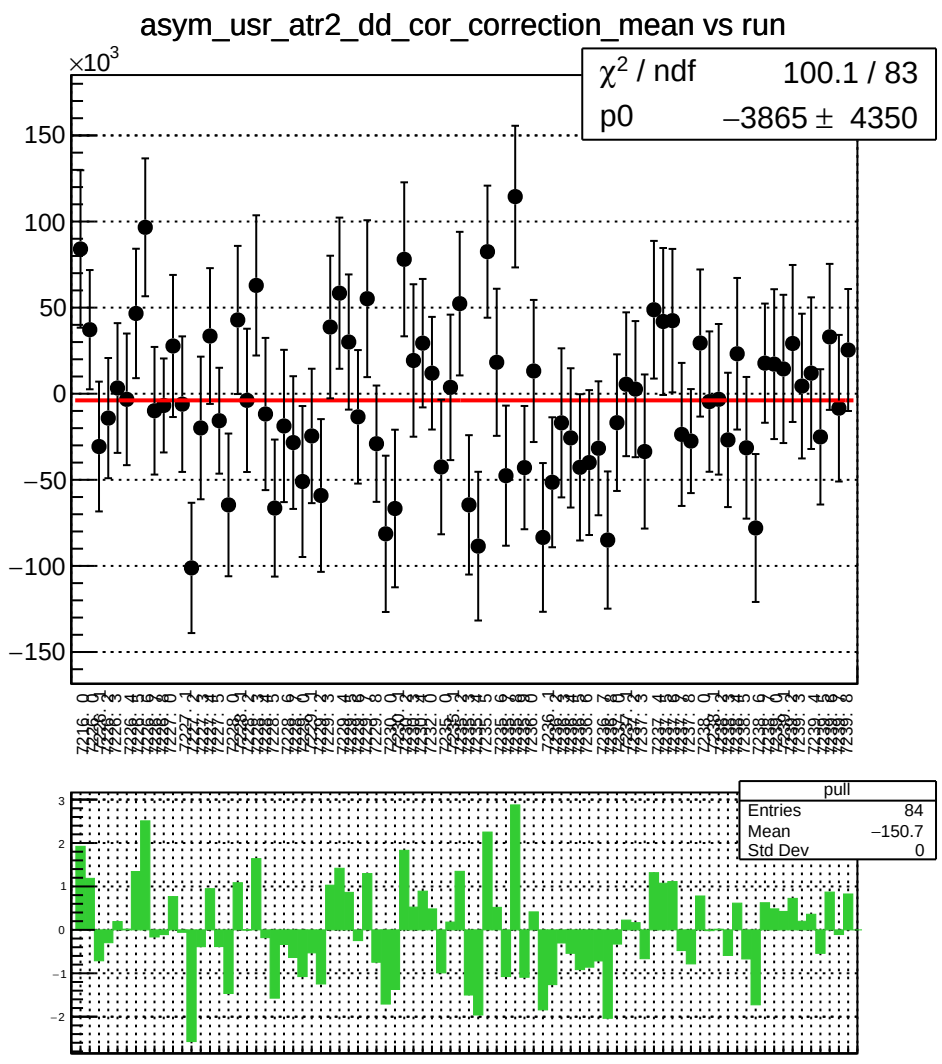

pull1D
Entries 84
Mean 0.006842
Std Dev 1.092
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

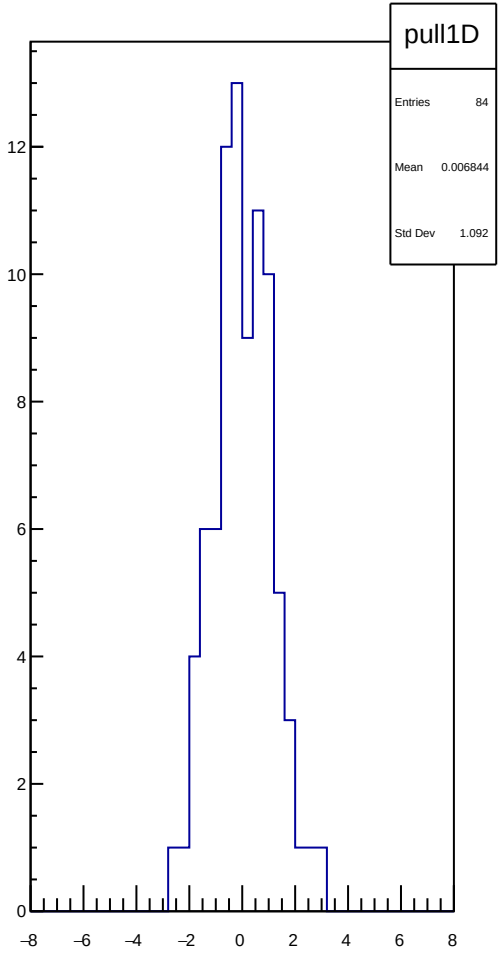

asym_usr_atr2_dd_reg_correction_rms vs run
χ² / ndf 6510 / 83
p0 3915 ± 3.076
4600
4400
4200
4000
3800
3600
3400
3200

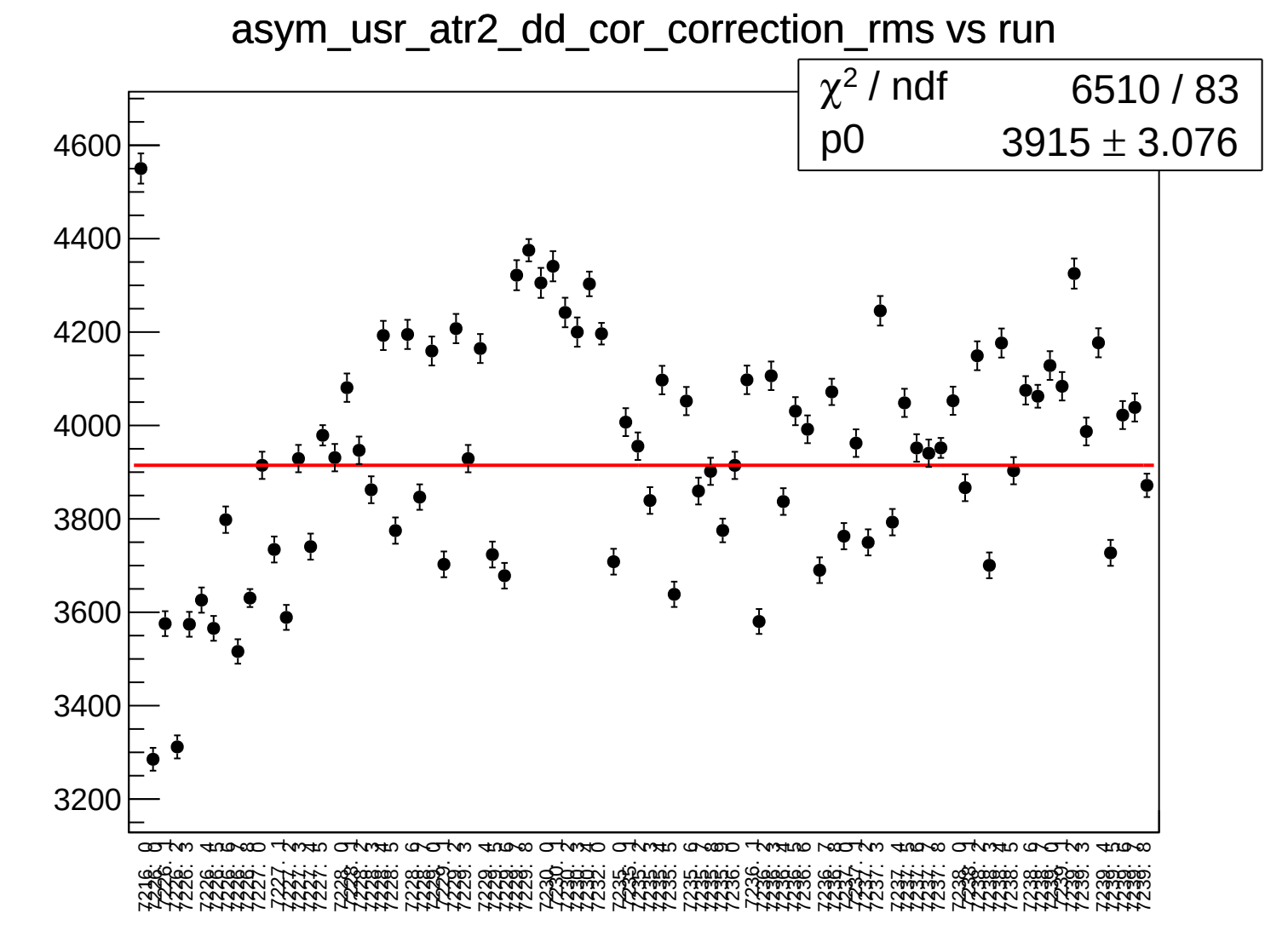

cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 87.19 / 83
p0 312.4 ± 1198
pull
Entries 84
Mean 105.5
Std Dev 0

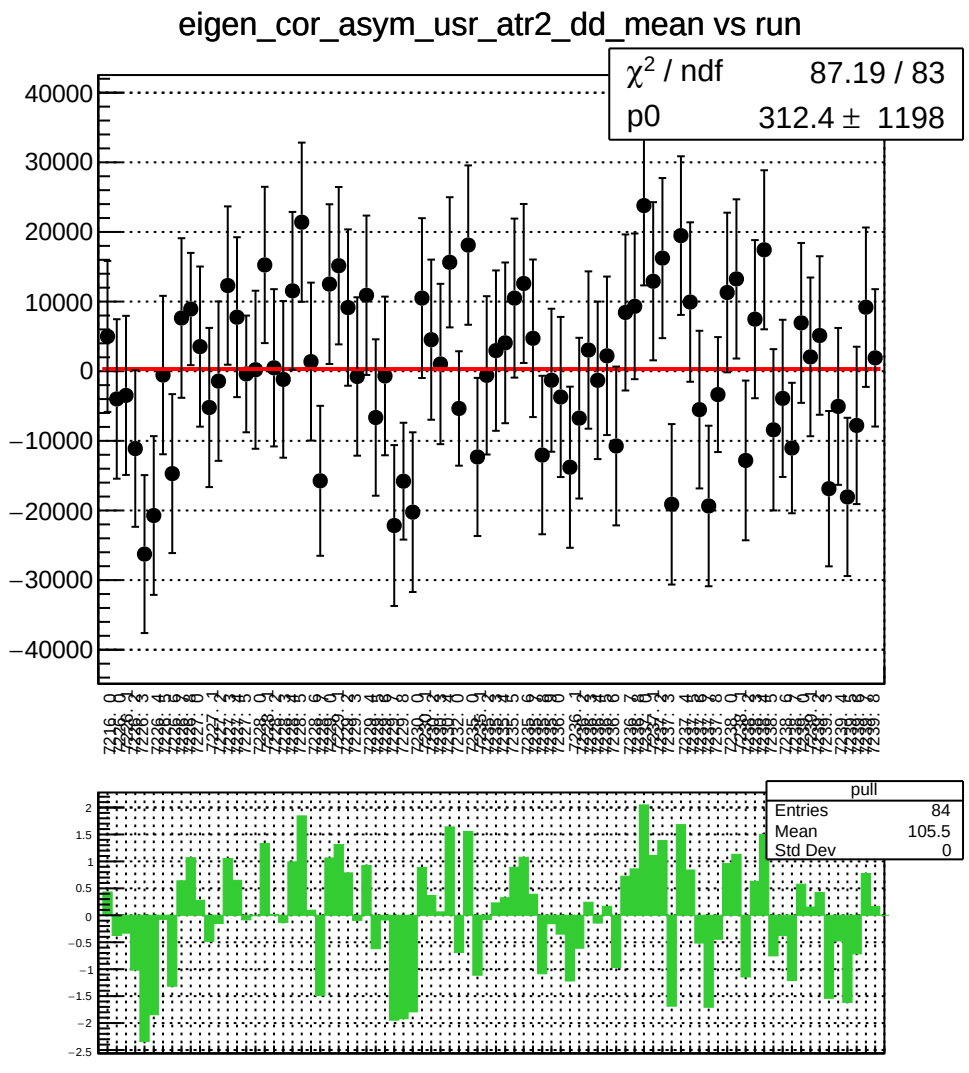

pull1D
Entries 84
Mean 0.006998
Std Dev 1.019

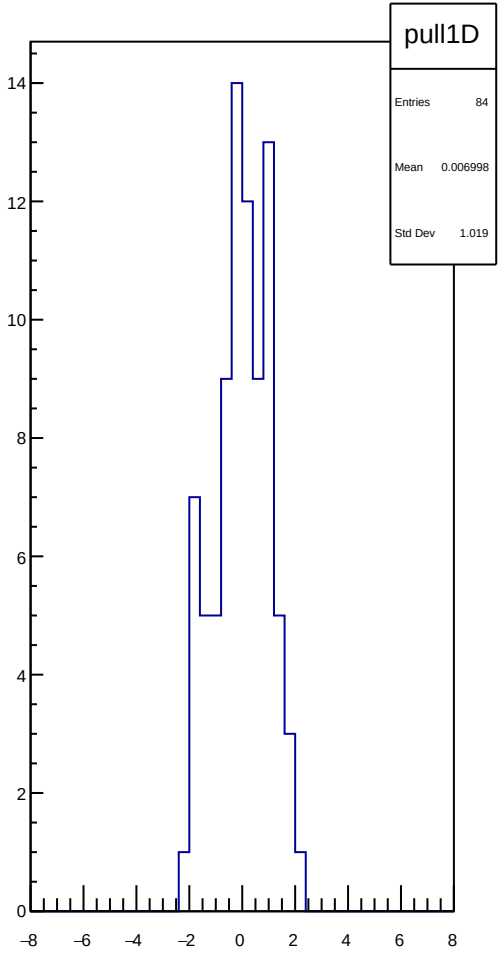

cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 126.1 / 83
p0 1081 ± 0.8474
1110
1100
1090
1080
1070
1060
1050

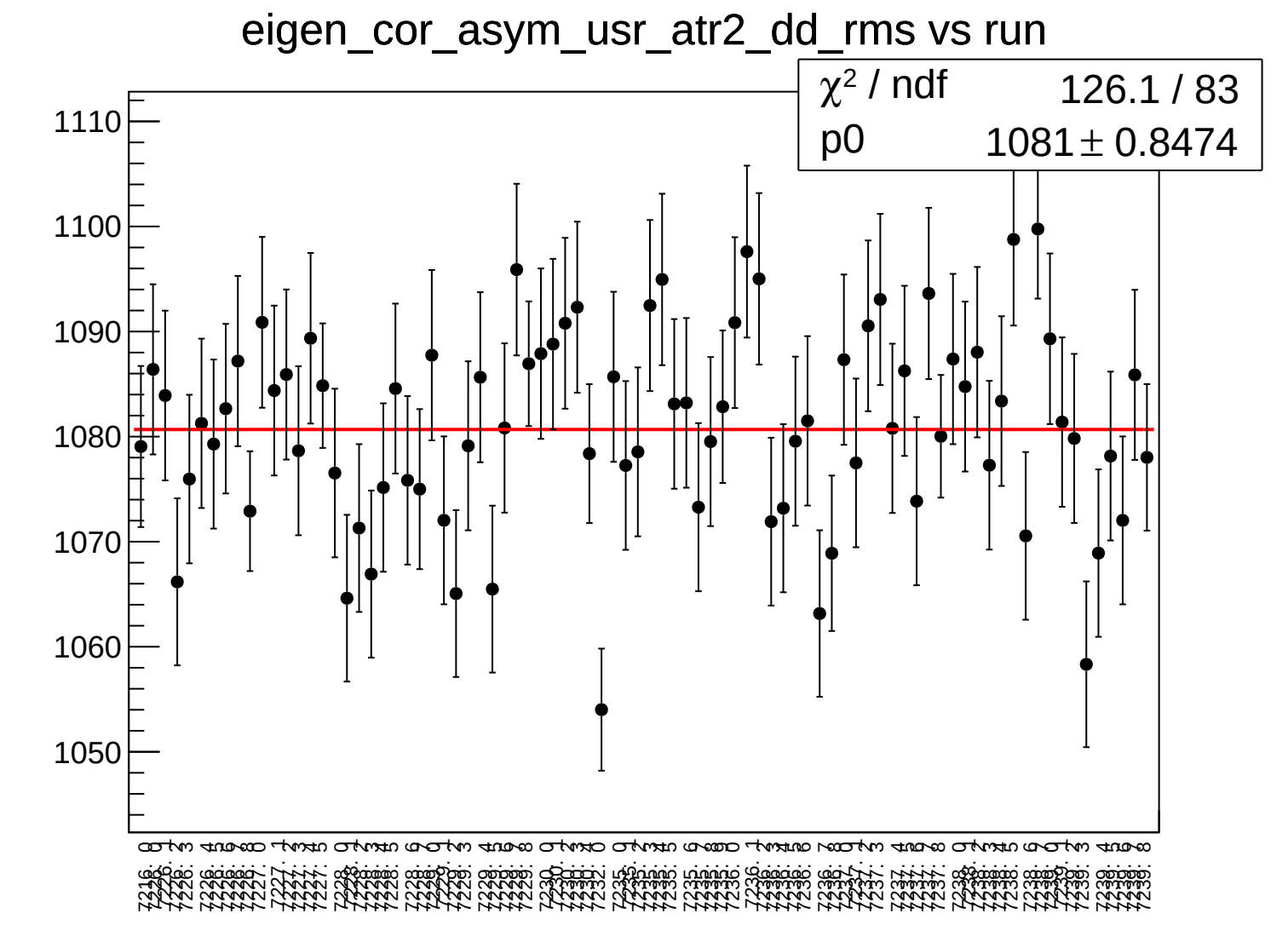

asym_usr_atr2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 100.1 / 83
p0 −3865 ± 4350
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −150.7
Std Dev 0
3
2
1
0
−1
−2

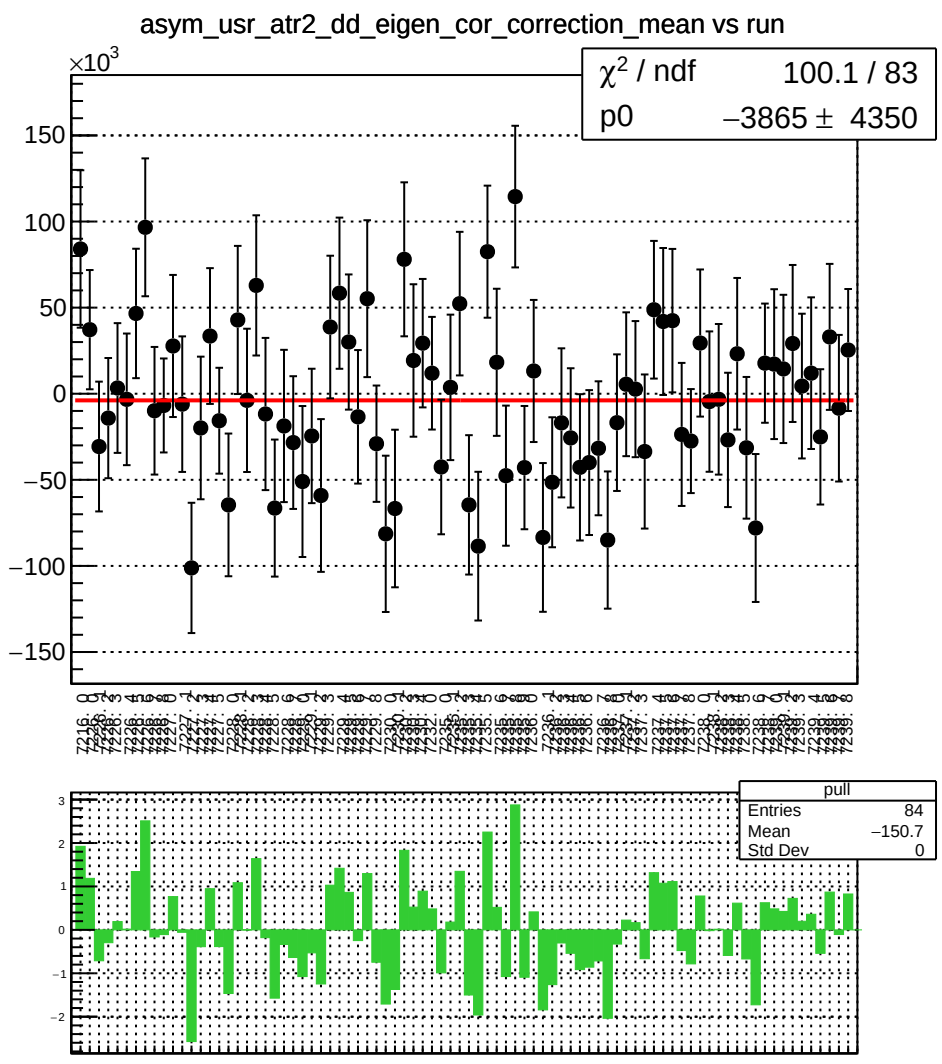

pull1D
Entries 84
Mean 0.006844
Std Dev 1.092
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

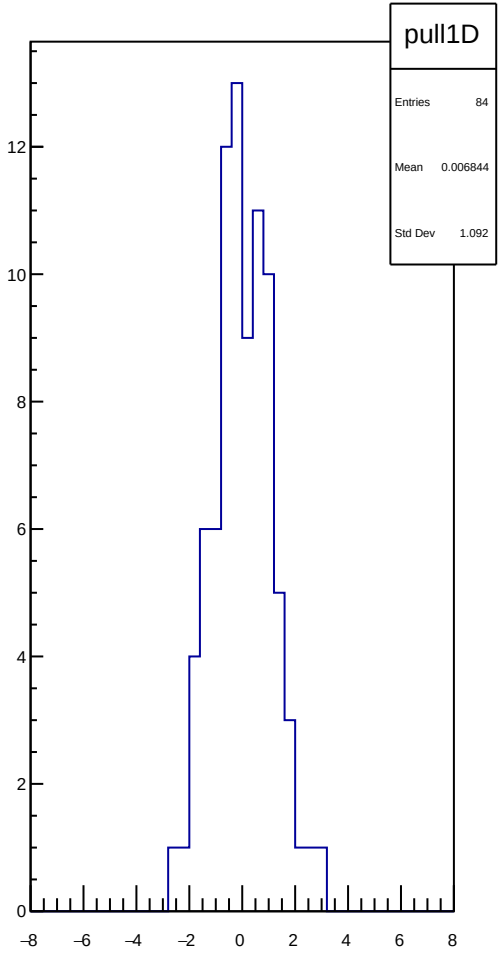

asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 6510 / 83
p0 3915 ± 3.076
4600
4400
4200
4000
3800
3600
3400
3200

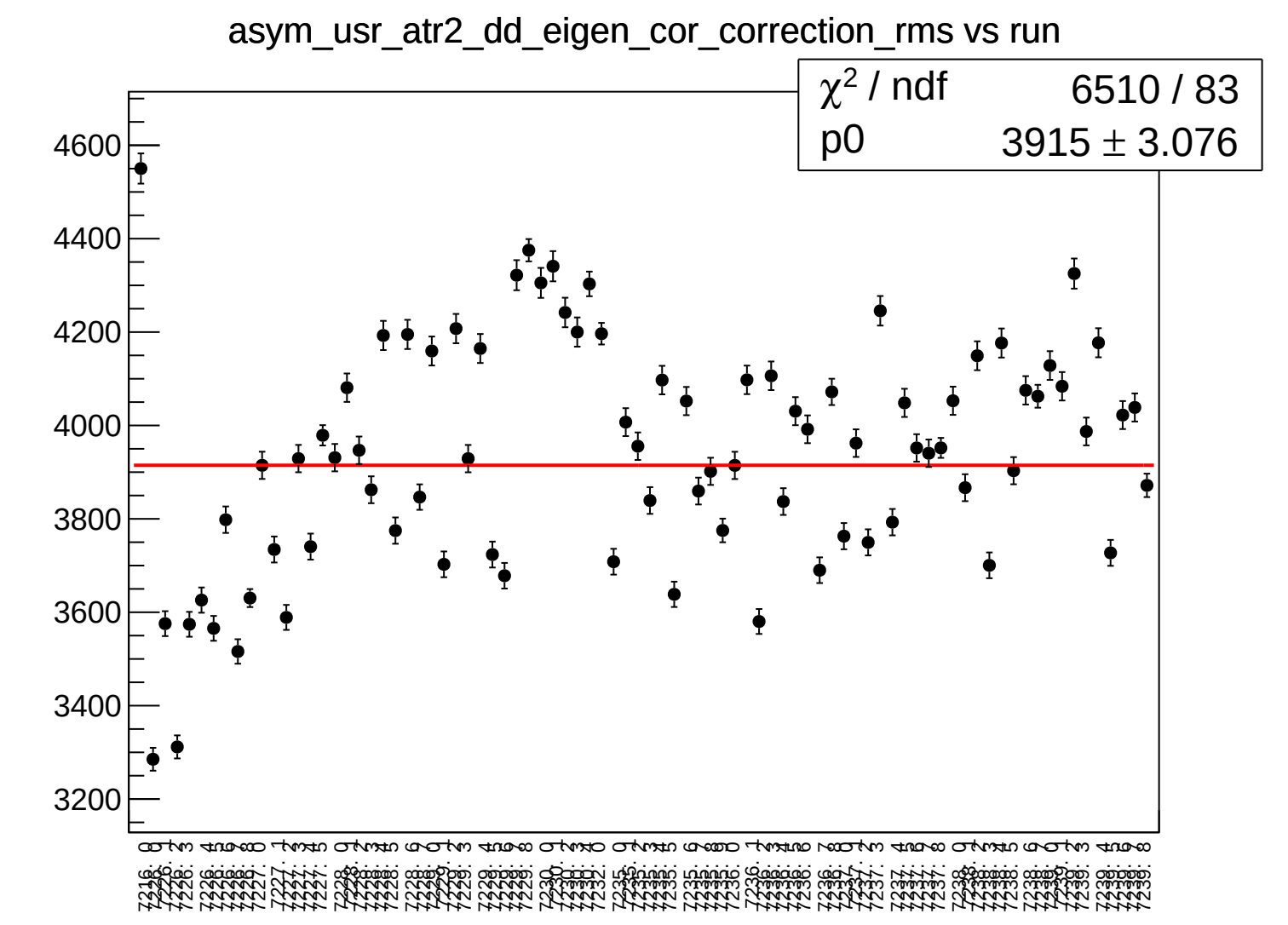

eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 87.19 / 83
p0 312.4 ± 1198
pull
Entries 84
Mean 105.5
Std Dev 0

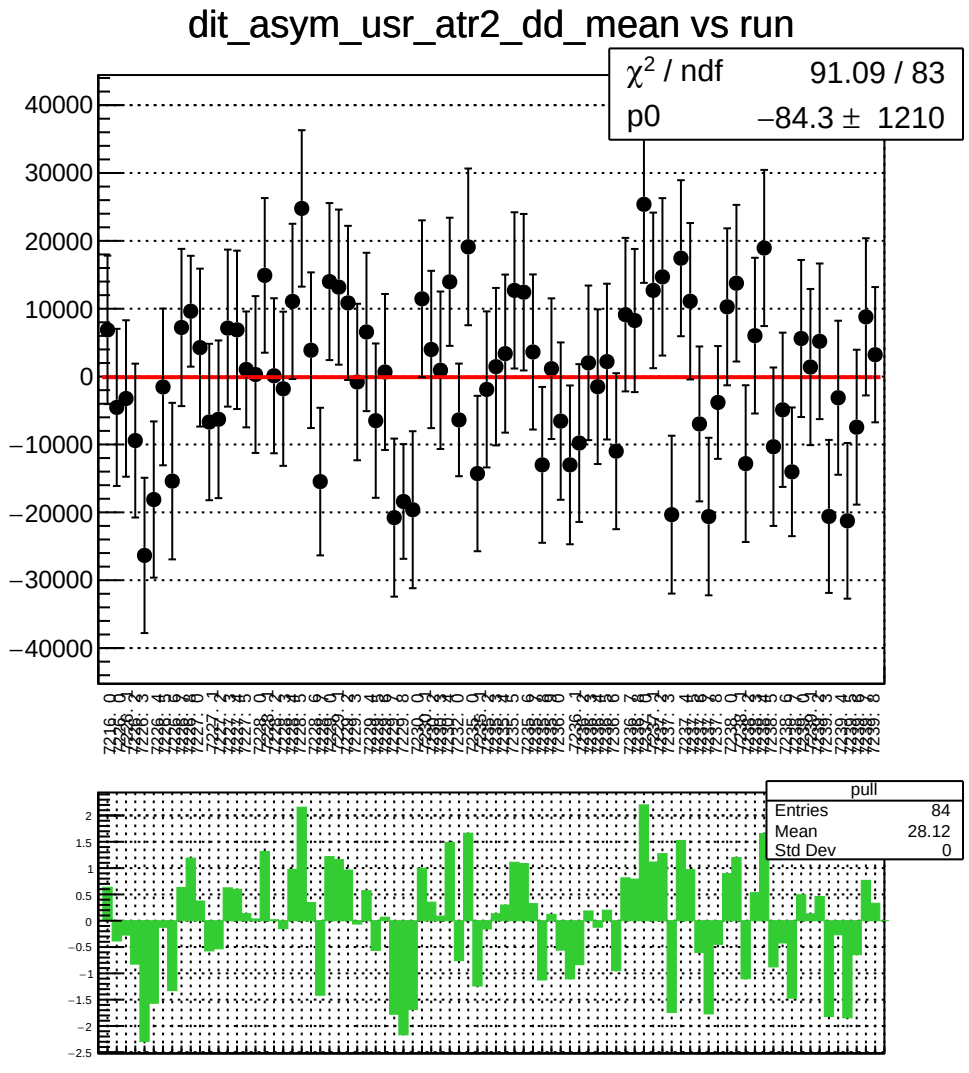

pull1D
Entries 84
Mean 0.006998
Std Dev 1.019

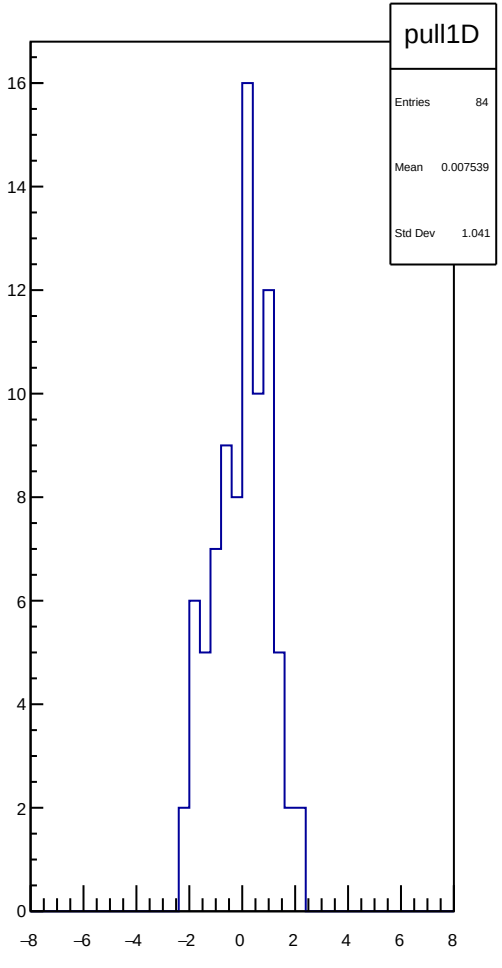

eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 126.1 / 83
p0 1081 ± 0.8474
1110
1100
1090
1080
1070
1060
1050

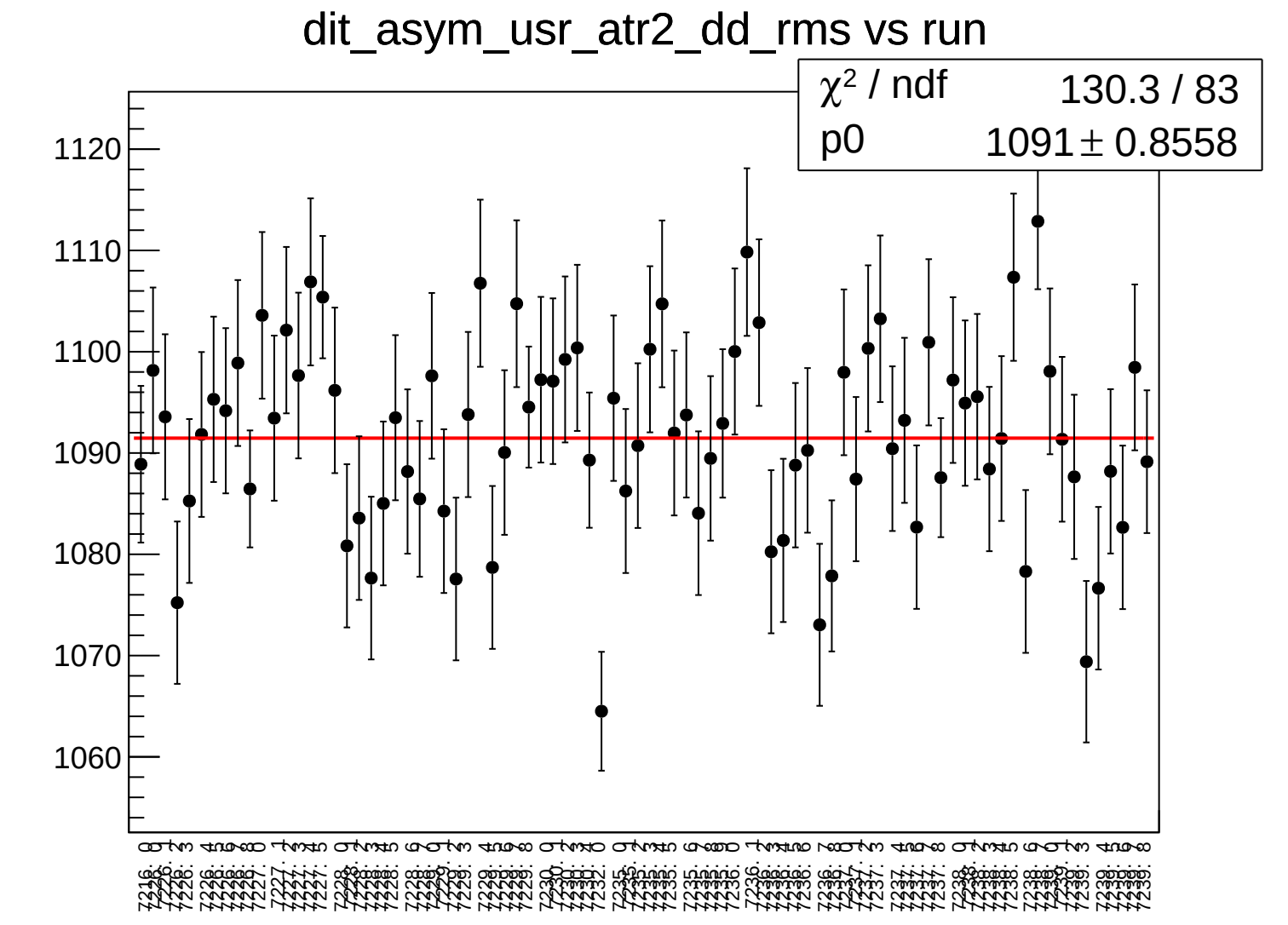

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 100.1 / 83
p0 −3865 ± 4350
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −150.7
Std Dev 0
3
2
1
0
−1
−2

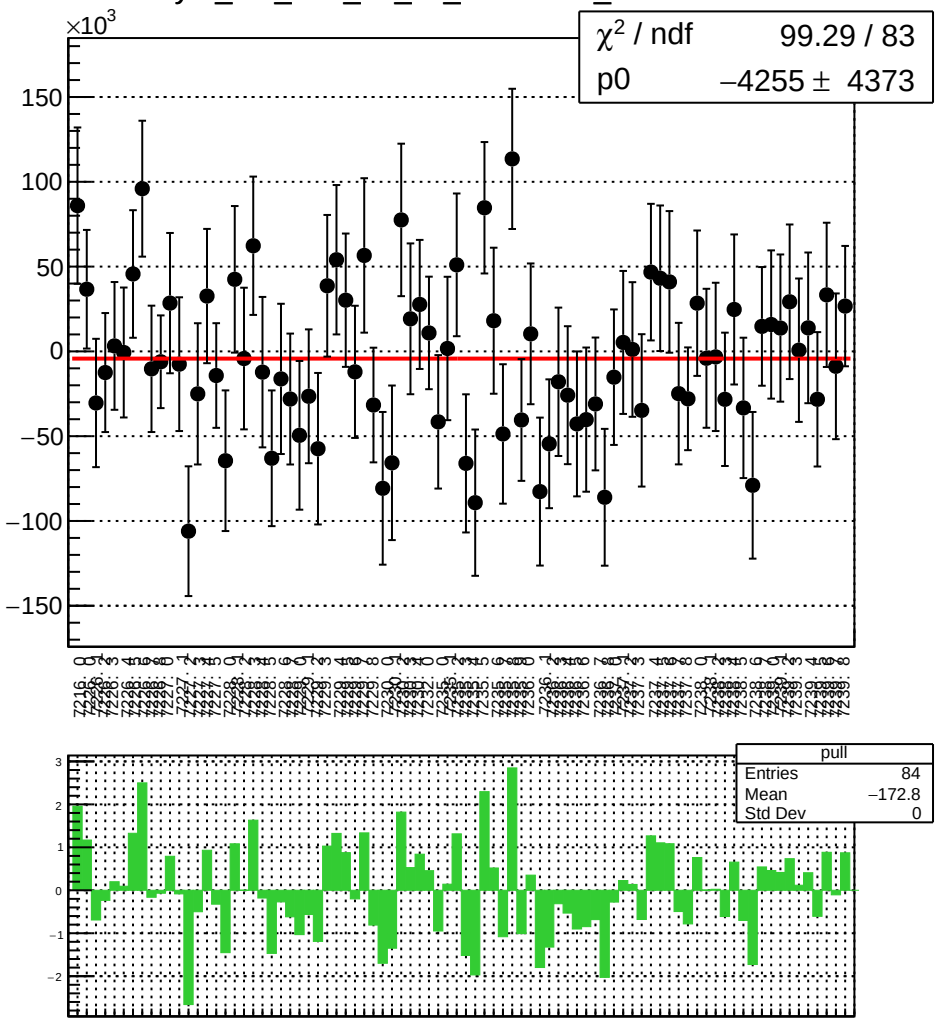

pull1D
Entries 84
Mean 0.006844
Std Dev 1.092
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

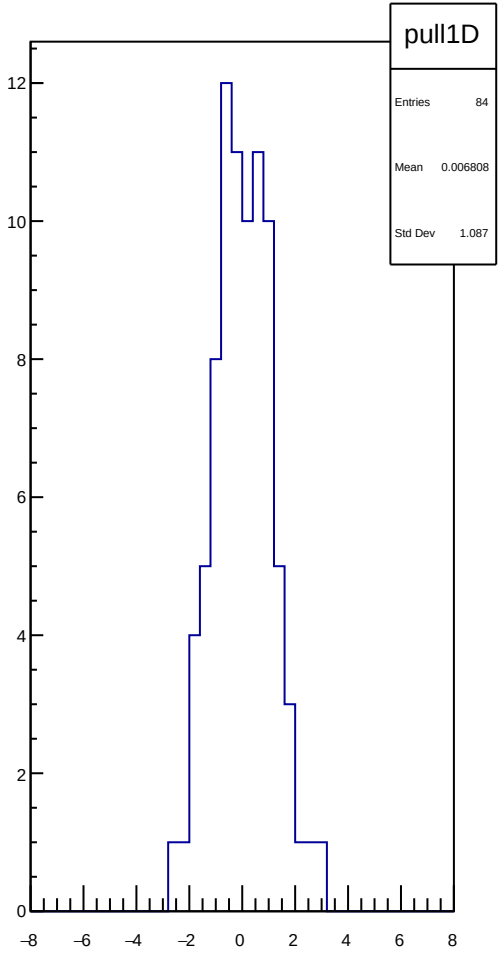

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 6510 / 83
p0 3915 ± 3.076
4600
4400
4200
4000
3800
3600
3400
3200

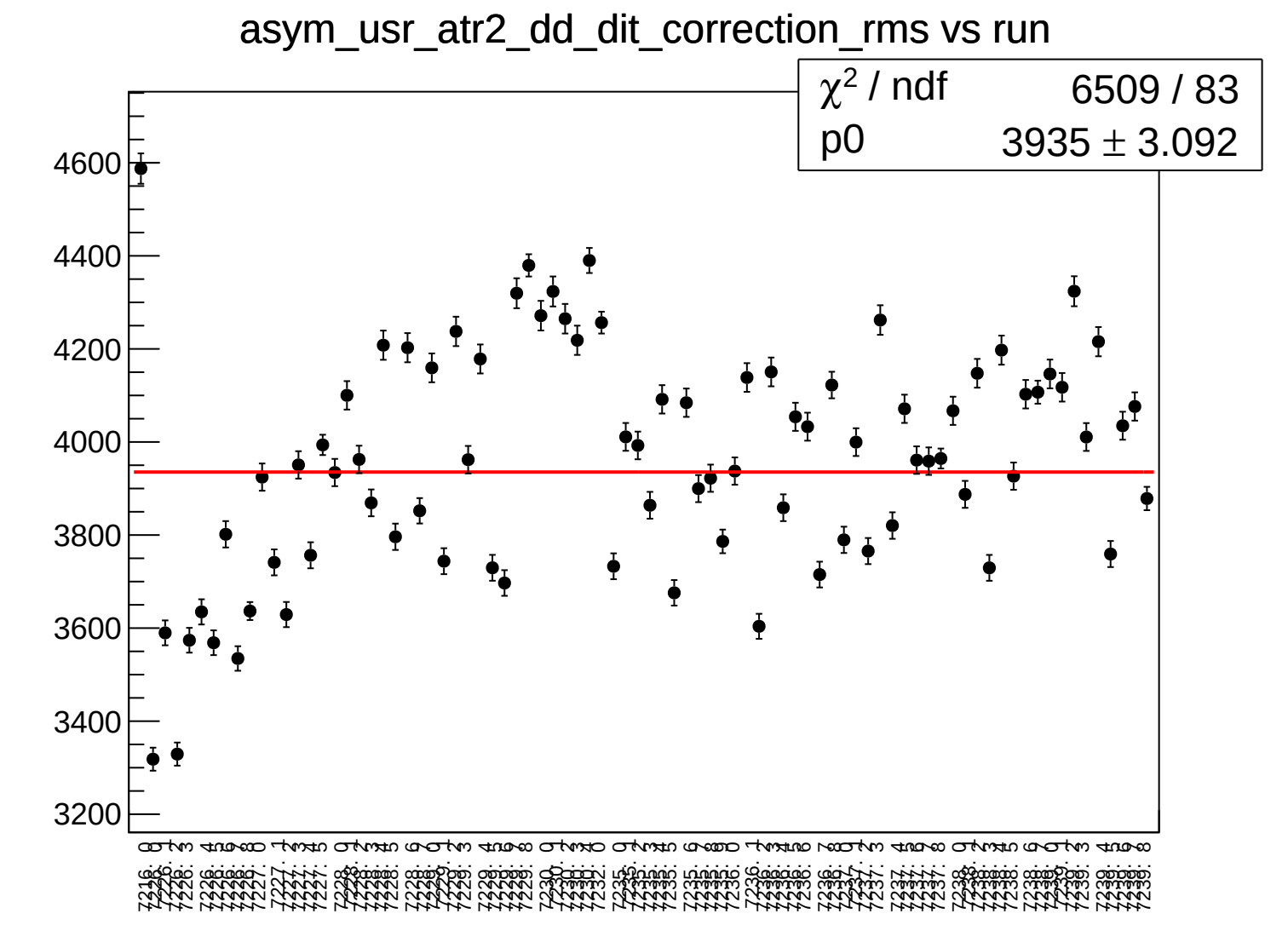

dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 91.09 / 83
p0 −84.3 ± 1210
pull
Entries 84
Mean 28.12
Std Dev 0

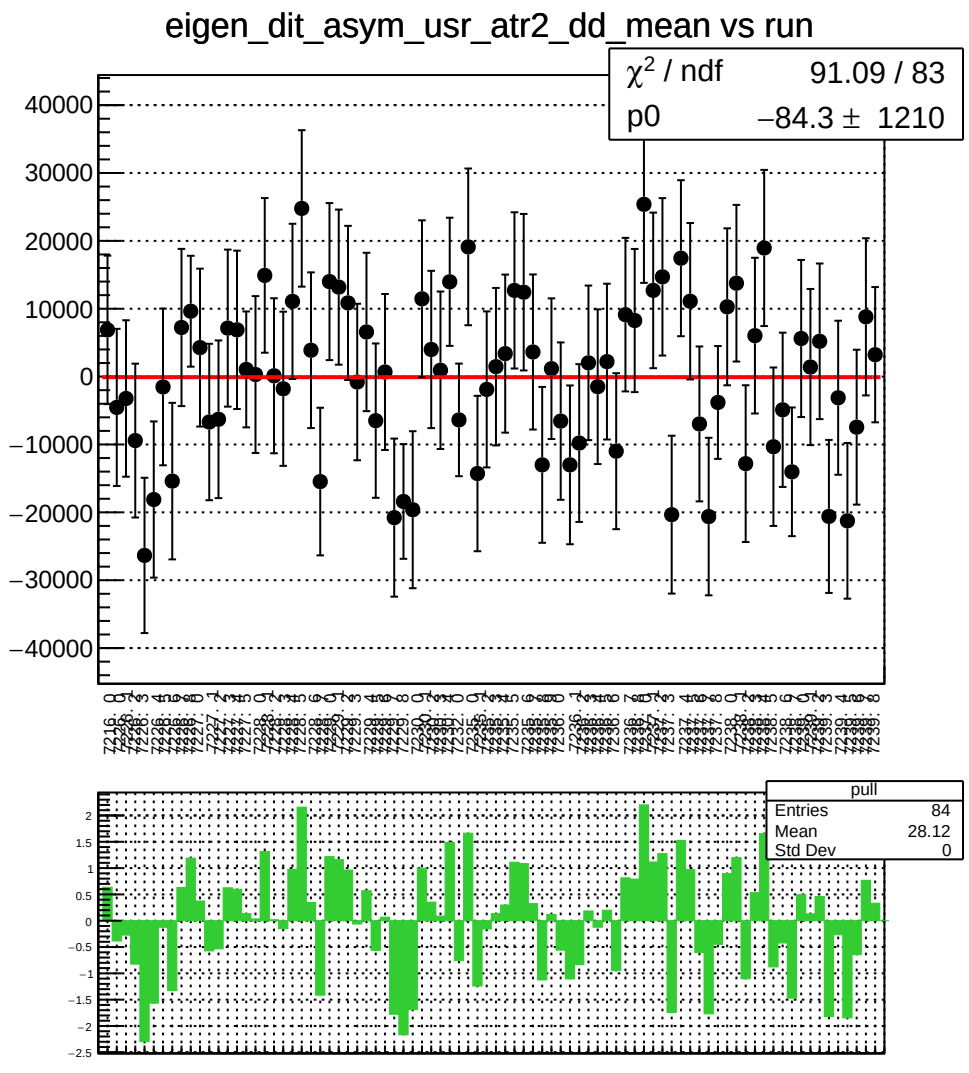

pull1D
Entries 84
Mean 0.007539
Std Dev 1.041

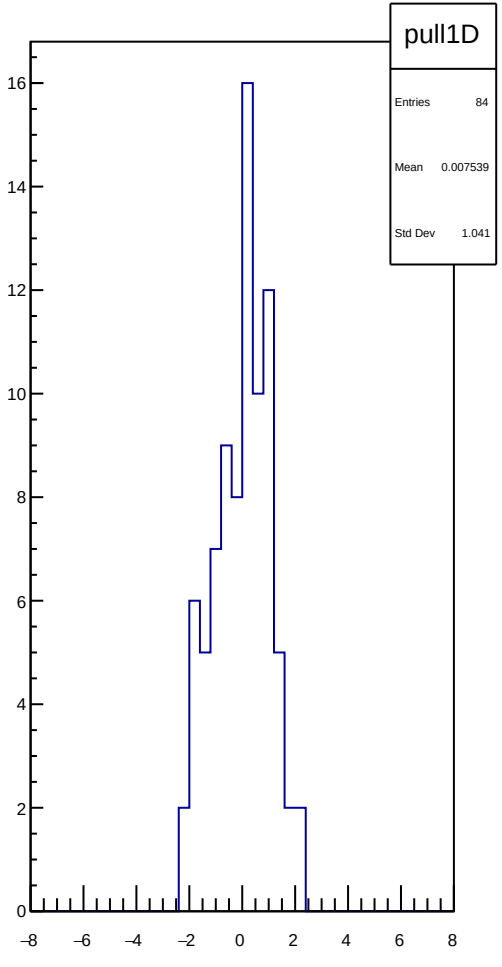

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 130.3 / 83
p0 1091 ± 0.8558
1120
1110
1100
1090
1080
1070
1060

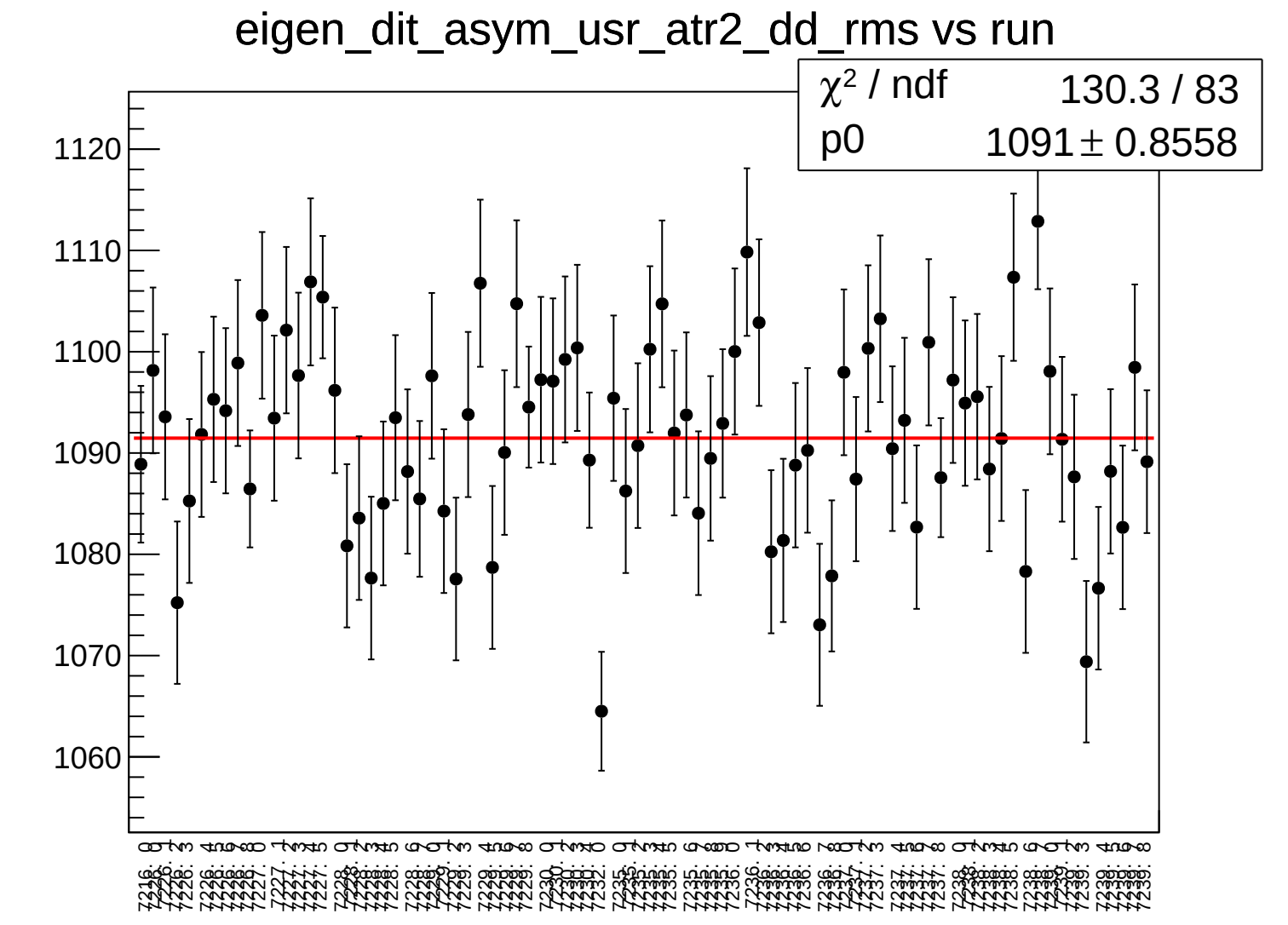

asym_usr_atr2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 99.29 / 83
p0 −4255 ± 4373
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −172.8
Std Dev 0
3
2
1
0
−1
−2

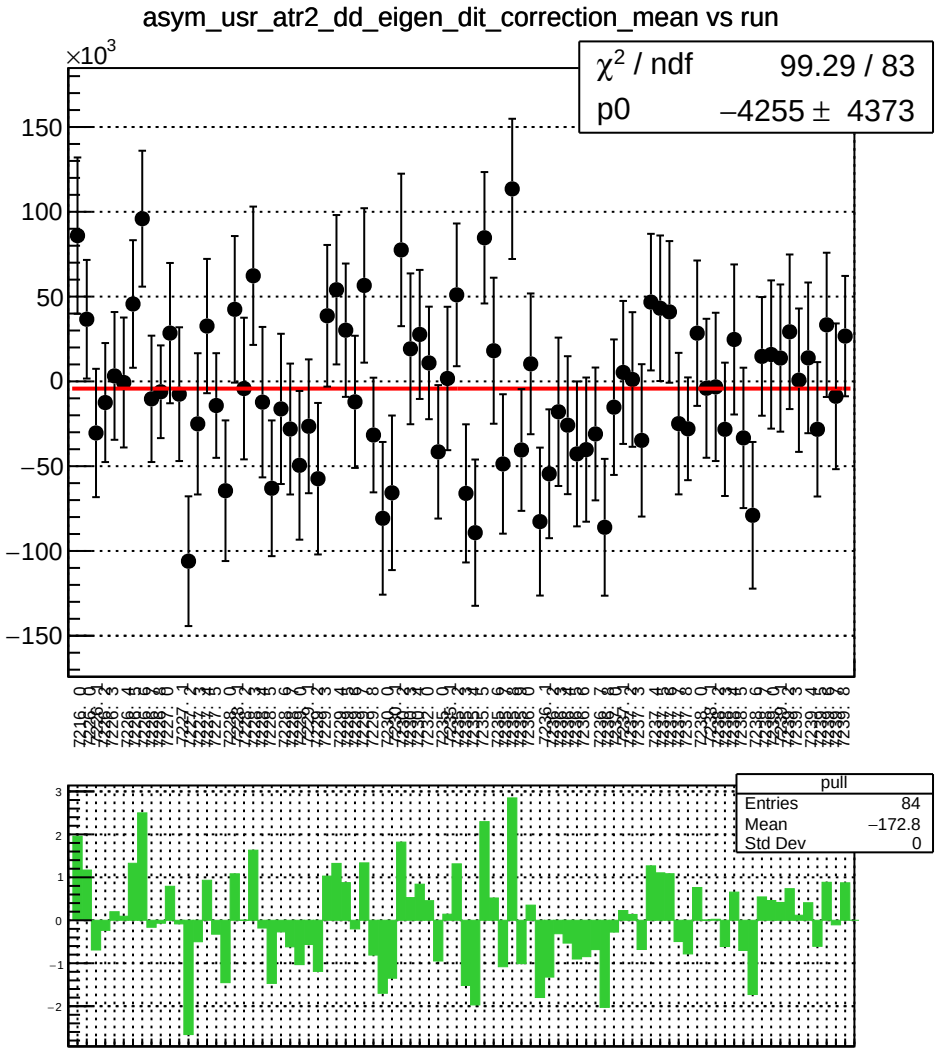

pull1D
Entries 84
Mean 0.006808
Std Dev 1.087
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

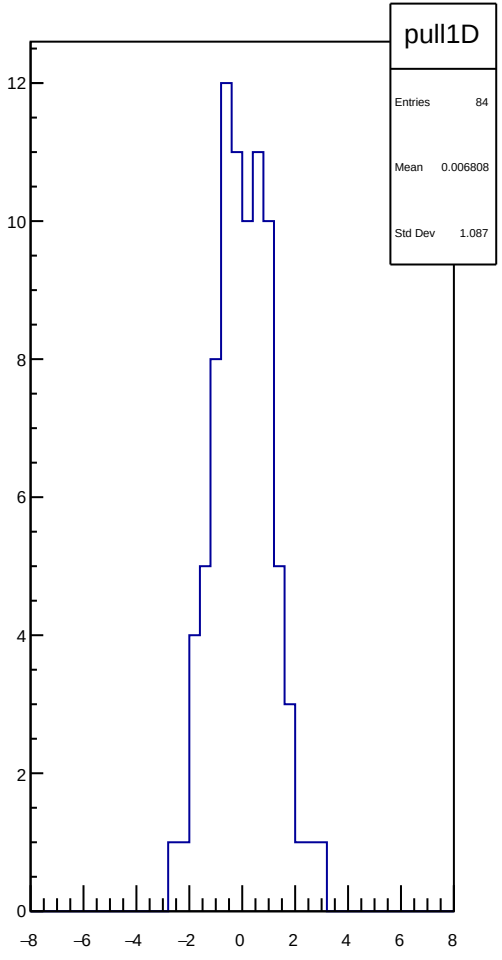

asym_usr_atr2_dd_dit_correction_rms vs run
χ² / ndf 6509 / 83
p0 3935 ± 3.092
4600
4400
4200
4000
3800
3600
3400
3200

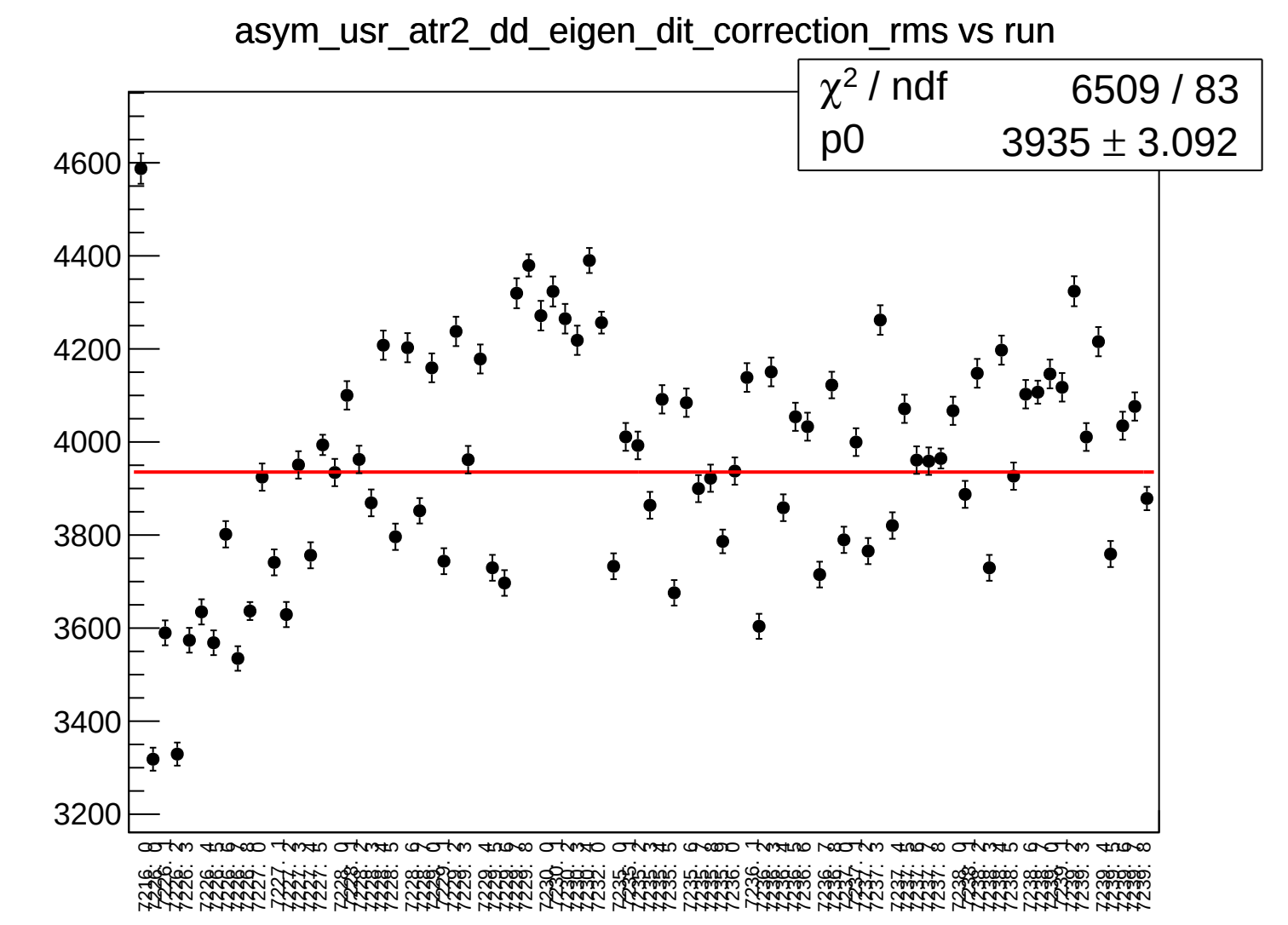

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 91.09 / 83
p0 −84.3 ± 1210
pull
Entries 84
Mean 28.12
Std Dev 0

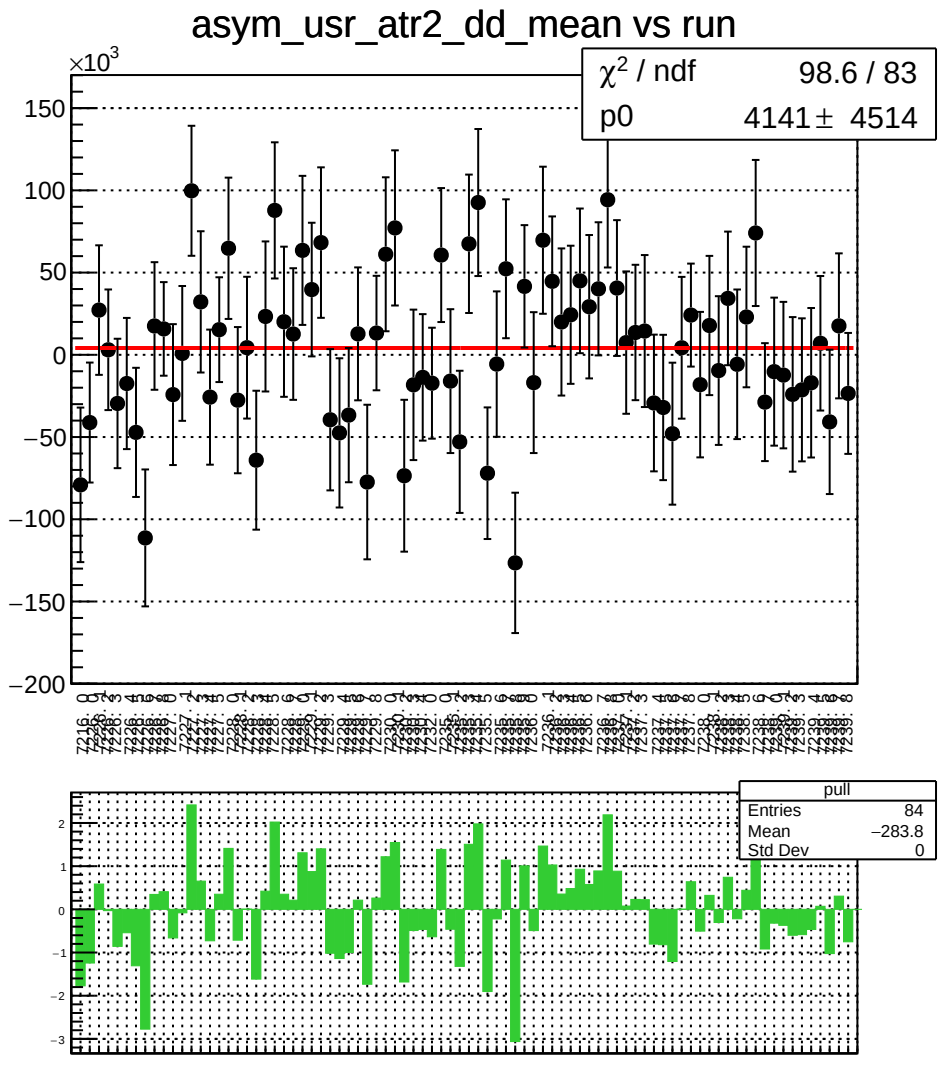

pull1D
Entries 84
Mean 0.007539
Std Dev 1.041

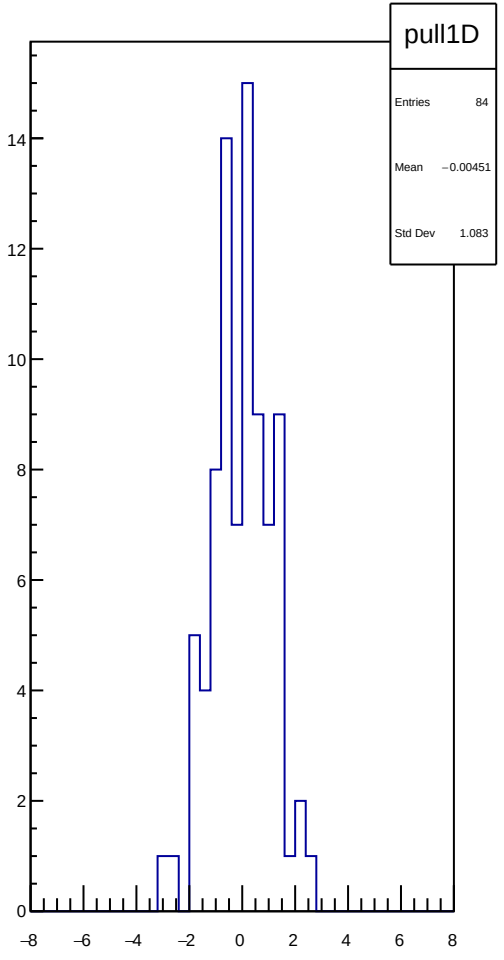

eigen_dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 130.3 / 83
p0 1091 ± 0.8558
1120
1110
1100
1090
1080
1070
1060

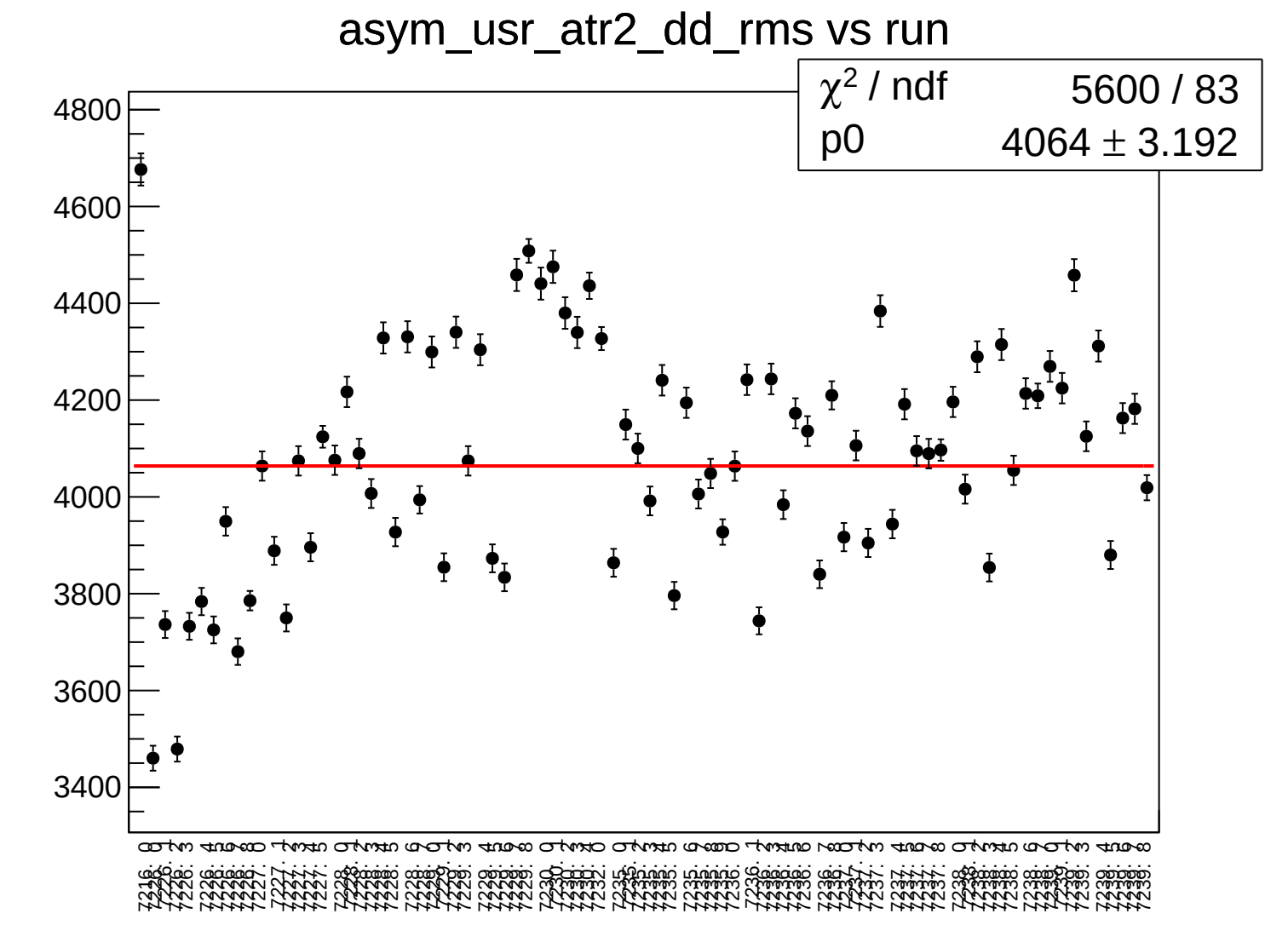

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 99.29 / 83
p0 −4255 ± 4373
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −172.8
Std Dev 0
3
2
1
0
−1
−2

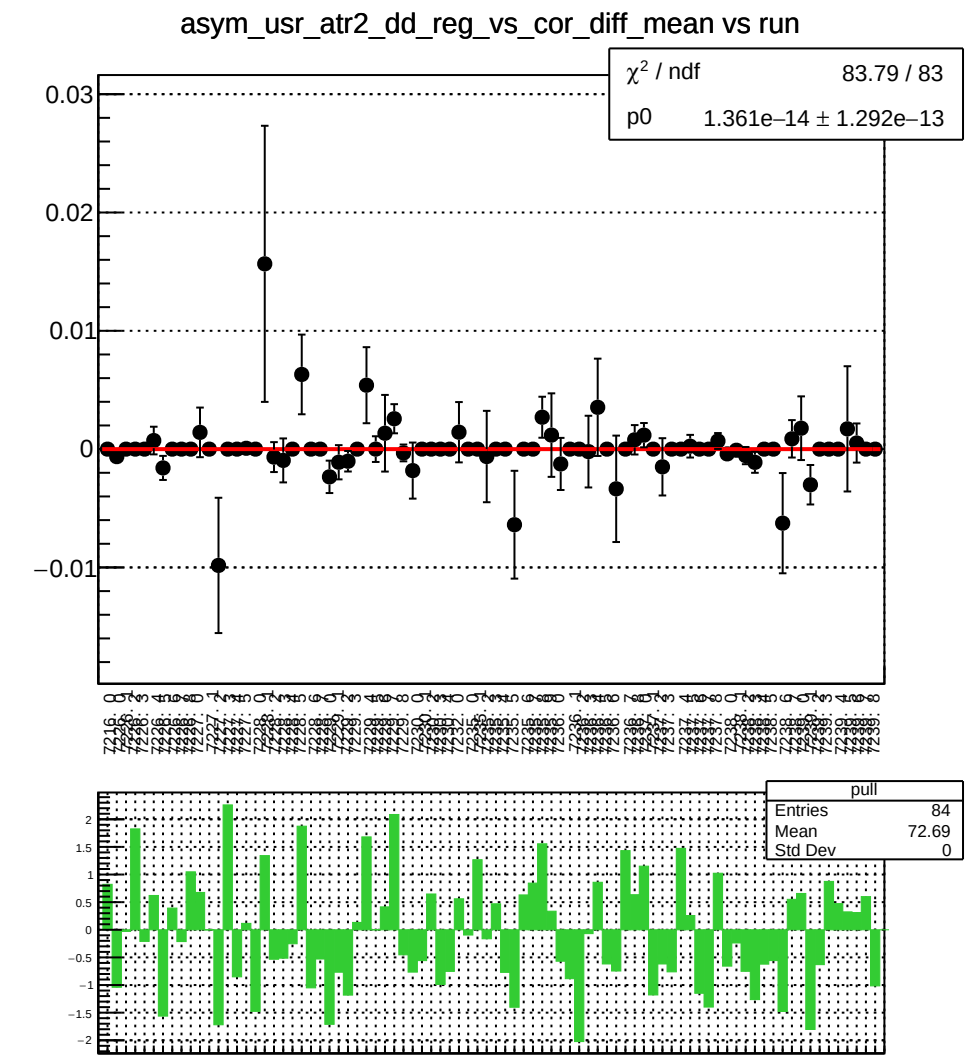

pull1D
Entries 84
Mean 0.006808
Std Dev 1.087
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

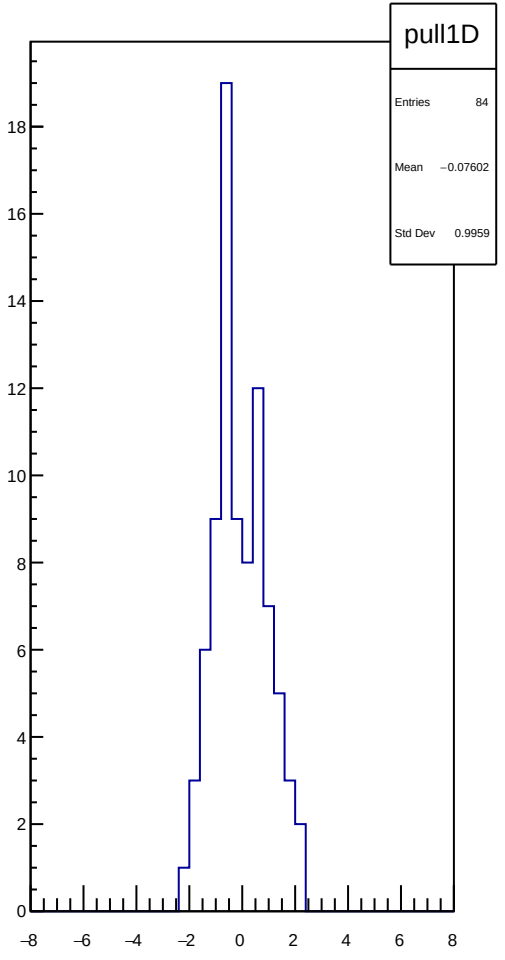

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 6509 / 83
p0 3935 ± 3.092
4600
4400
4200
4000
3800
3600
3400
3200

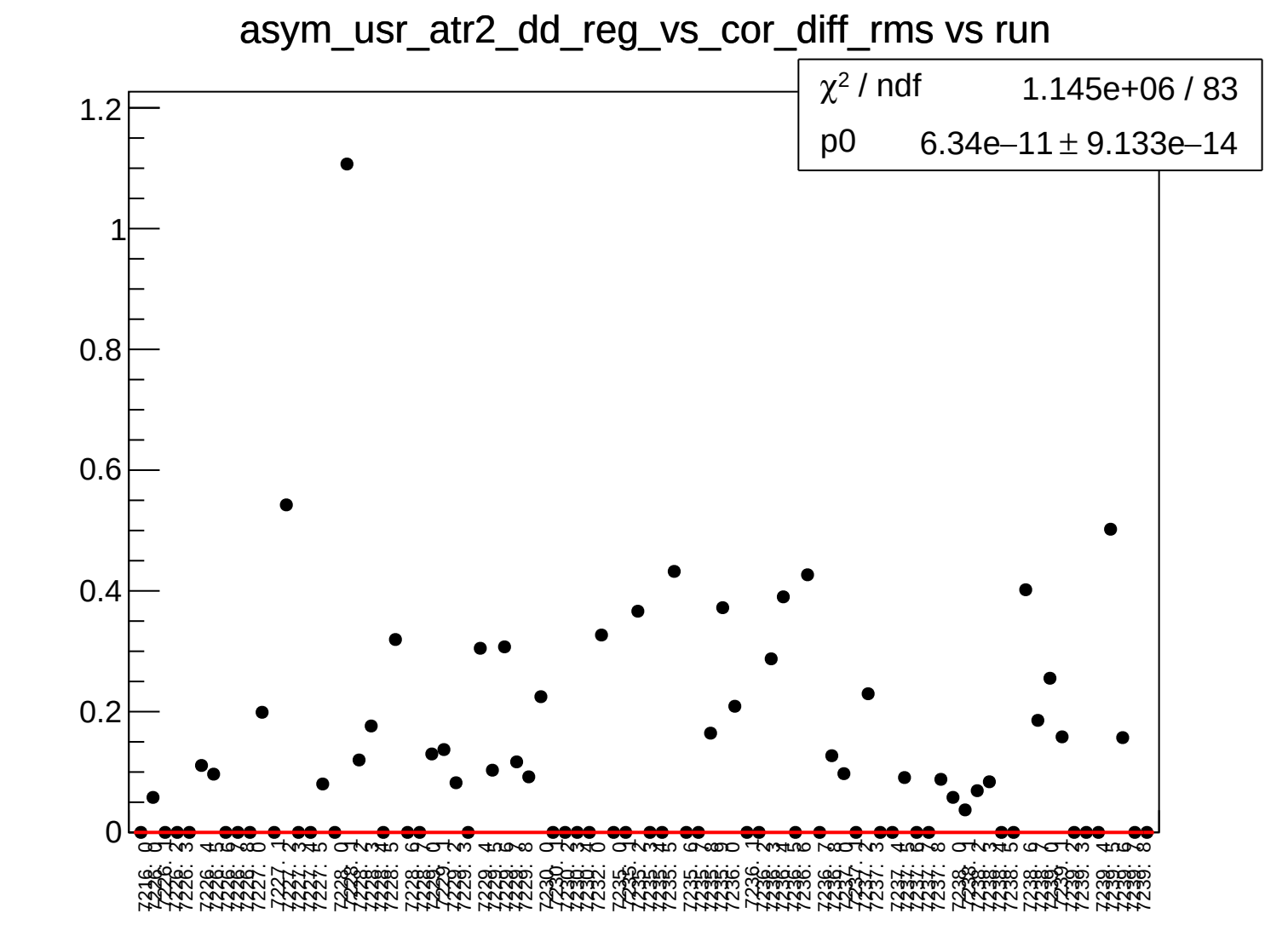

asym_usr_atr2_dd_mean vs run
×10^3
χ² / ndf 98.6 / 83
p0 4141 ± 4514
150
100
50
0
−50
−100
−150
−200
pull
Entries 84
Mean −283.8
Std Dev 0
2
1
0
−1
−2
−3

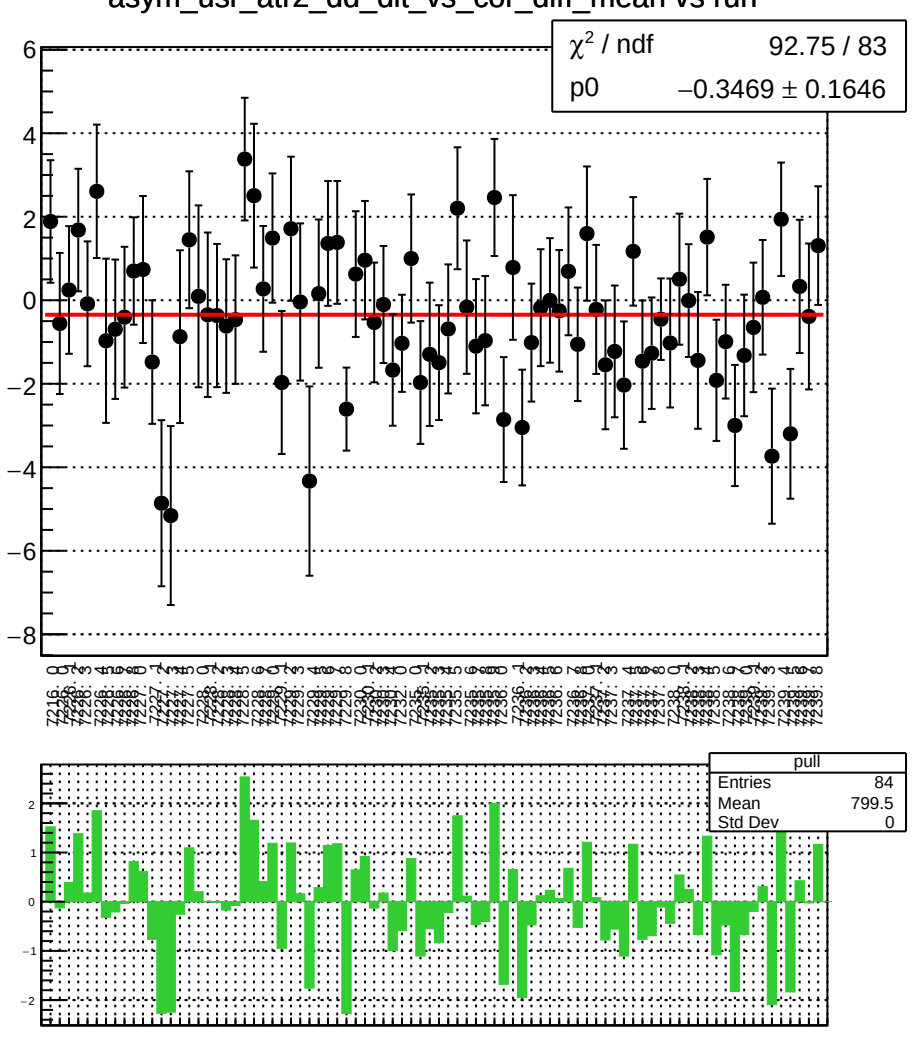

pull1D
Entries 84
Mean −0.00451
Std Dev 1.083
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

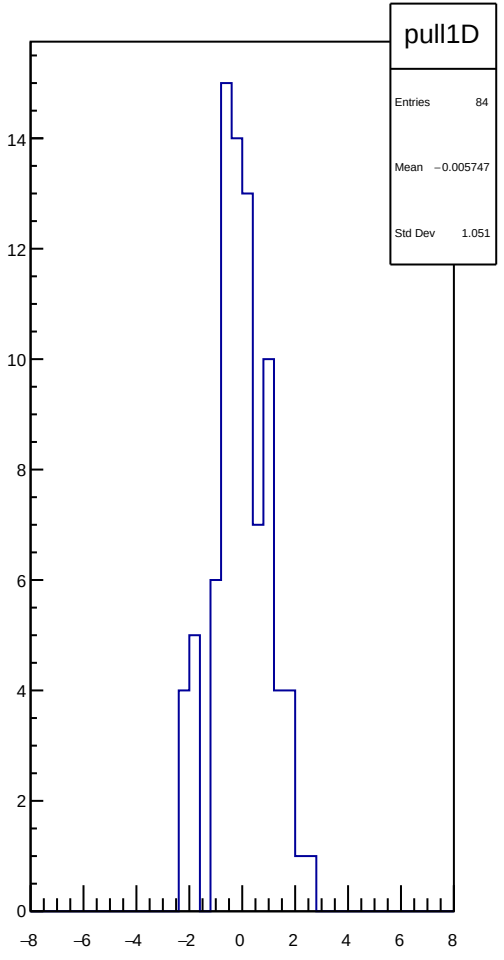

asym_usr_atr2_dd_rms vs run
χ² / ndf 5600 / 83
p0 4064 ± 3.192
4800
4600
4400
4200
4000
3800
3600
3400

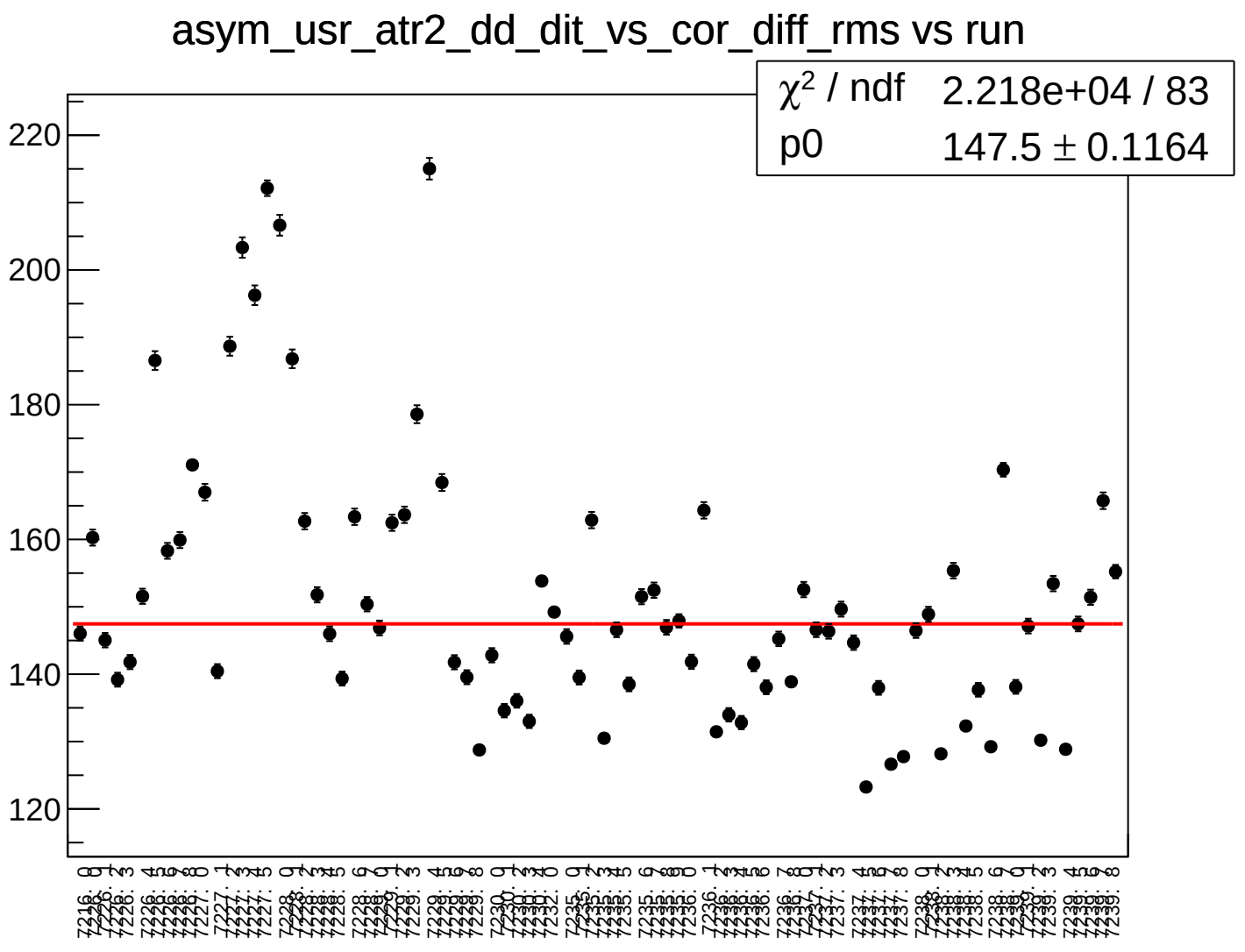

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 83.79 / 83
p0 1.361e−14 ± 1.292e−13
0.03
0.02
0.01
0
−0.01
pull
Entries 84
Mean 72.69
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

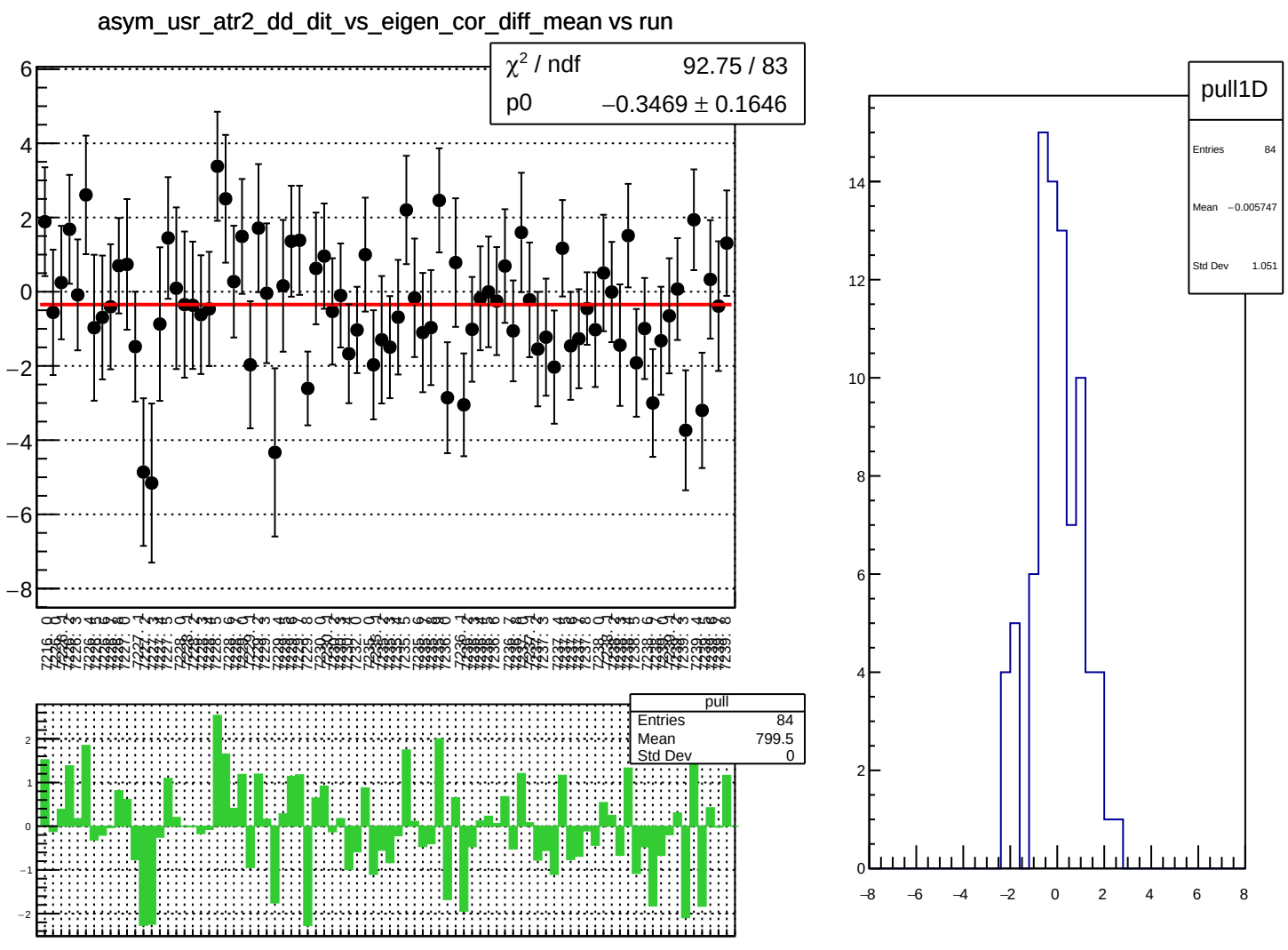

pull1D
Entries 84
Mean −0.07602
Std Dev 0.9959
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

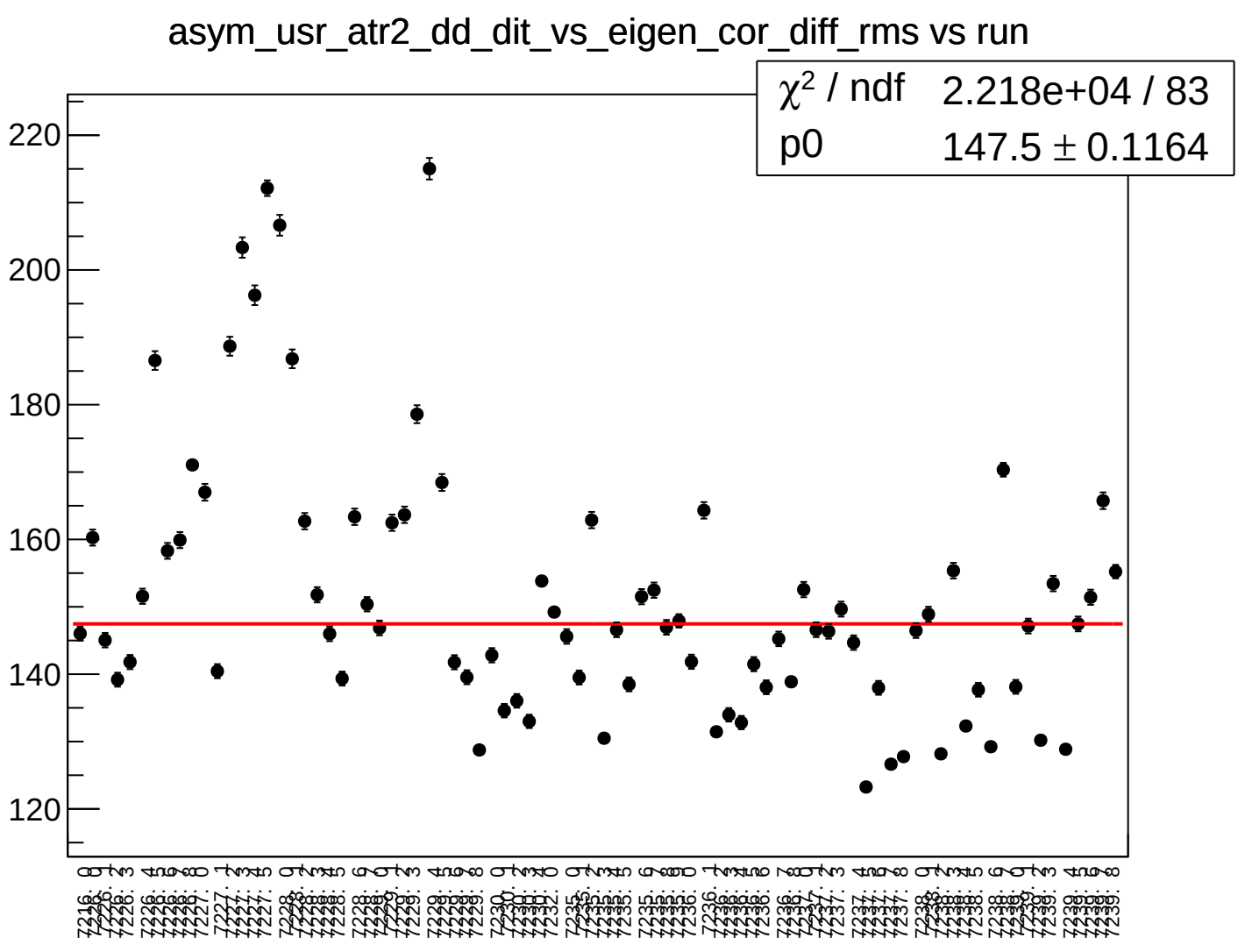

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.145e+06 / 83
p0 6.34e−11 ± 9.133e−14
1.2
1
0.8
0.6
0.4
0.2
0

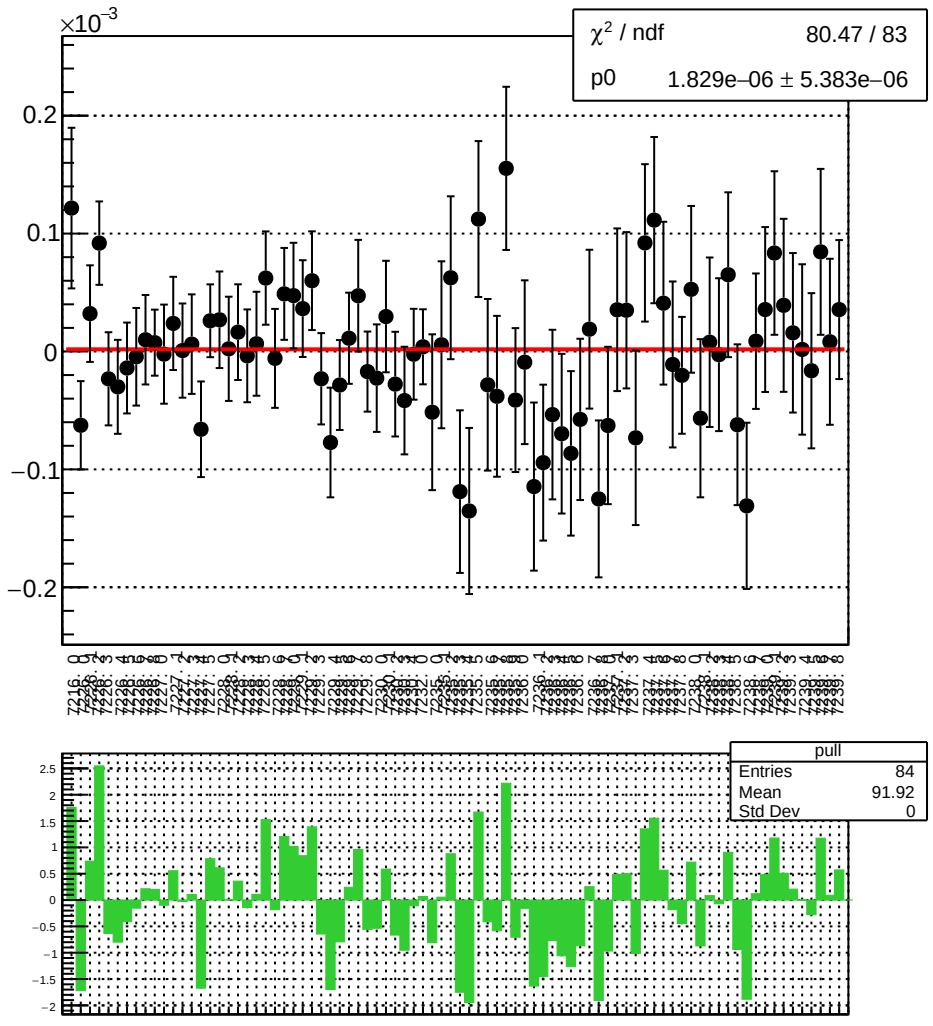

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 92.75 / 83
p0 −0.3469 ± 0.1646
pull
Entries 84
Mean 799.5
Std Dev 0

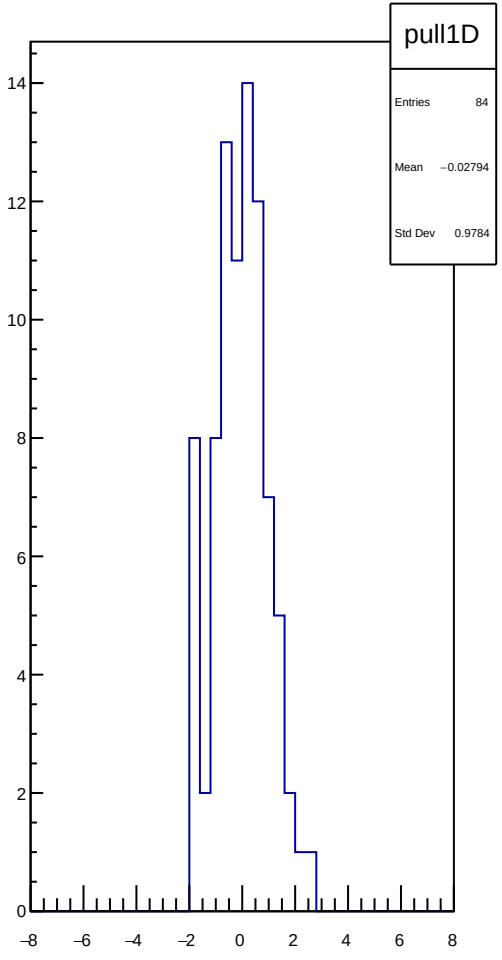

pull1D
Entries 84
Mean −0.005747
Std Dev 1.051

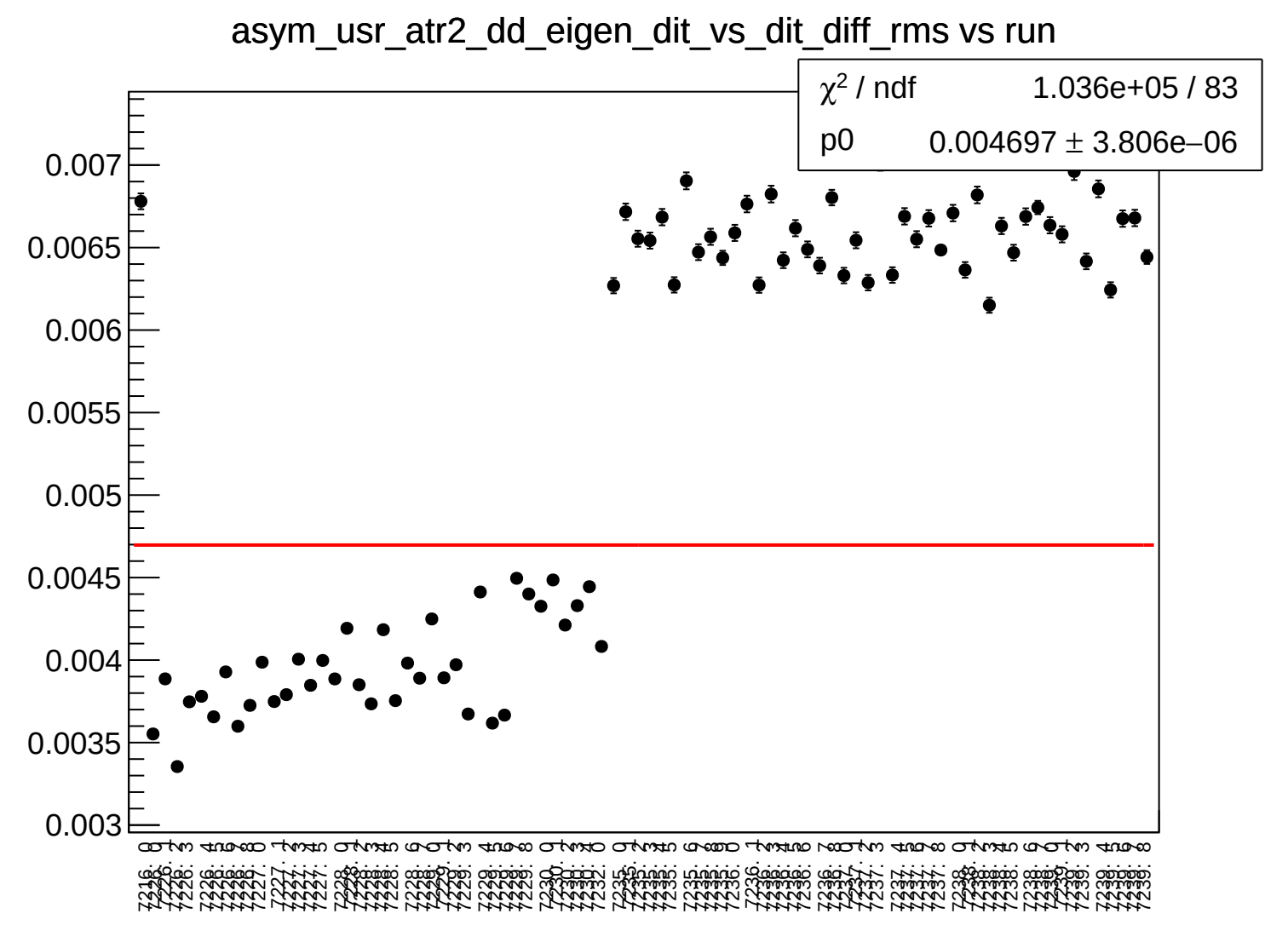

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.218e+04 / 83
p0 147.5 ± 0.1164
220
200
180
160
140
120

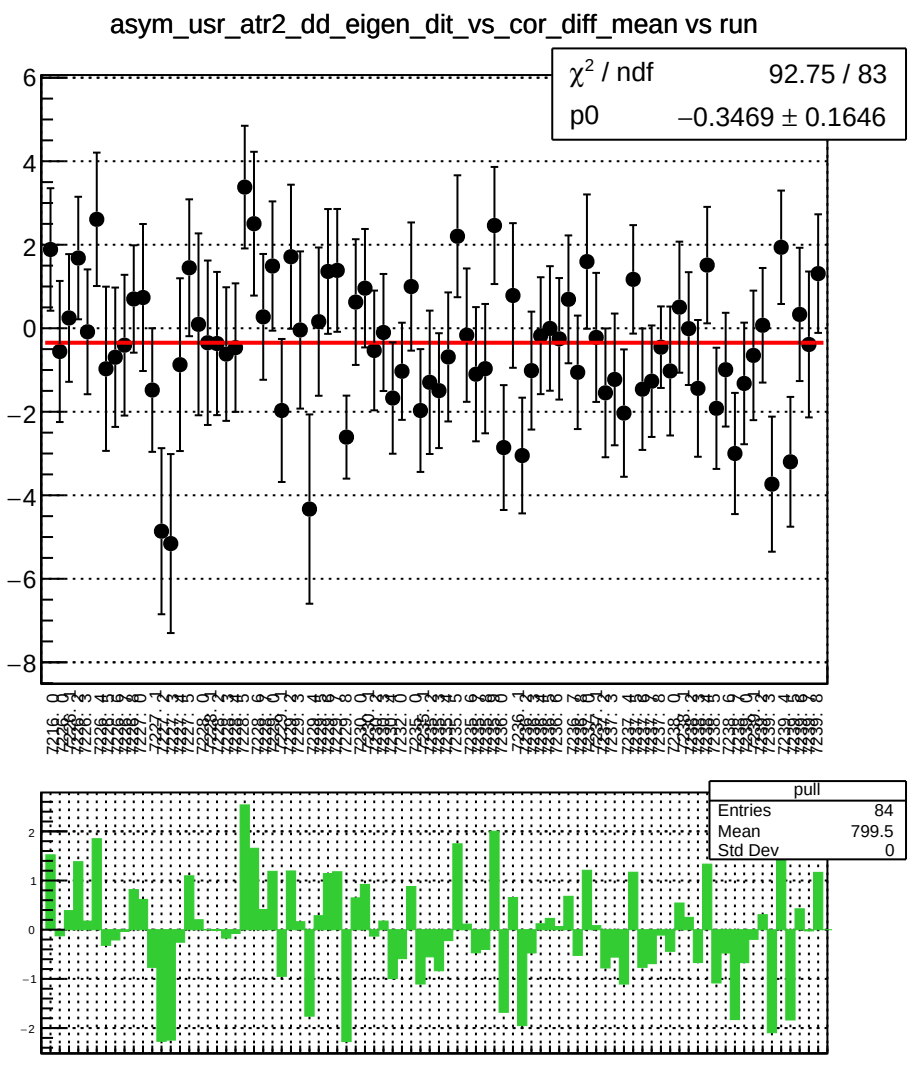

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.75 / 83
p0 −0.3469 ± 0.1646
pull
Entries 84
Mean 799.5
Std Dev 0
pull1D
Entries 84
Mean −0.005747
Std Dev 1.051

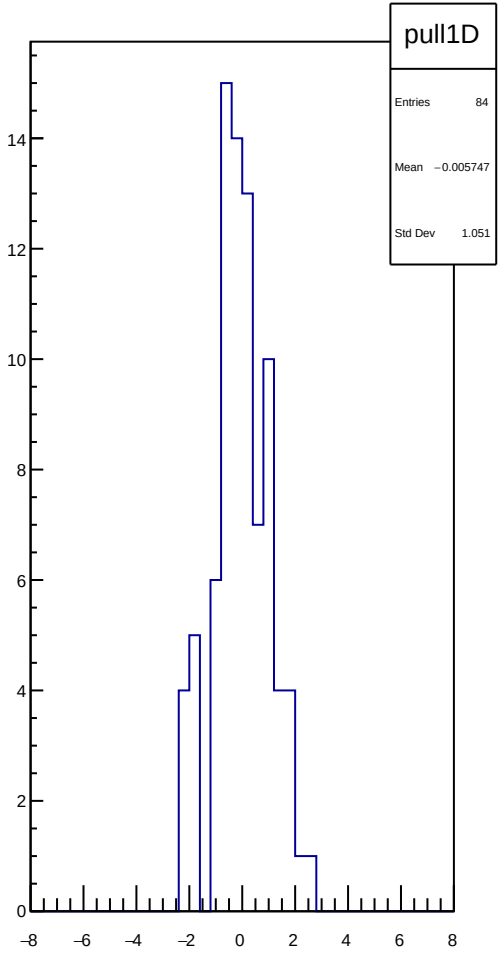

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.218e+04 / 83
p0 147.5 ± 0.1164
220
200
180
160
140
120

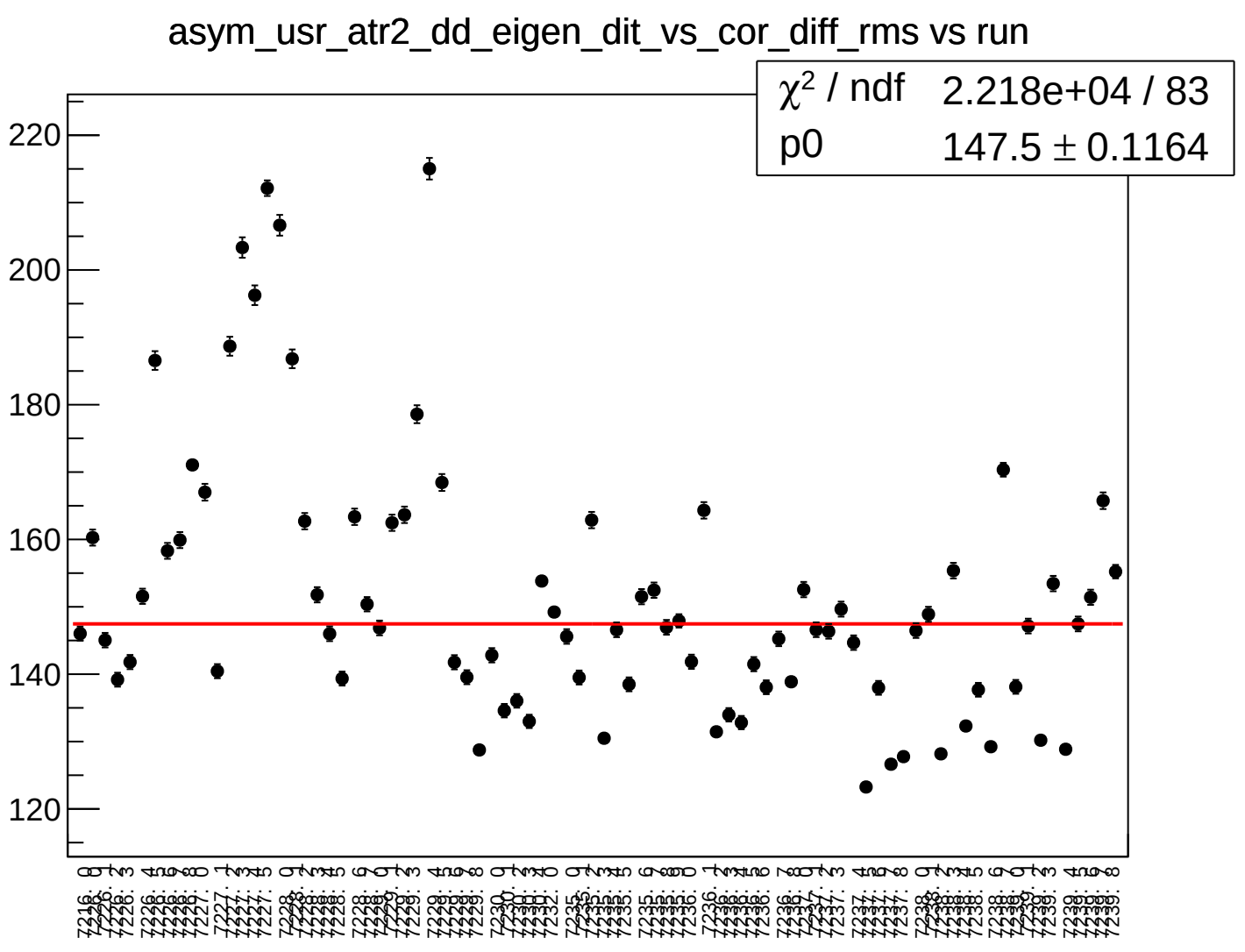

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.47 / 83
p0 1.829e−06 ± 5.383e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 84
Mean 91.92
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

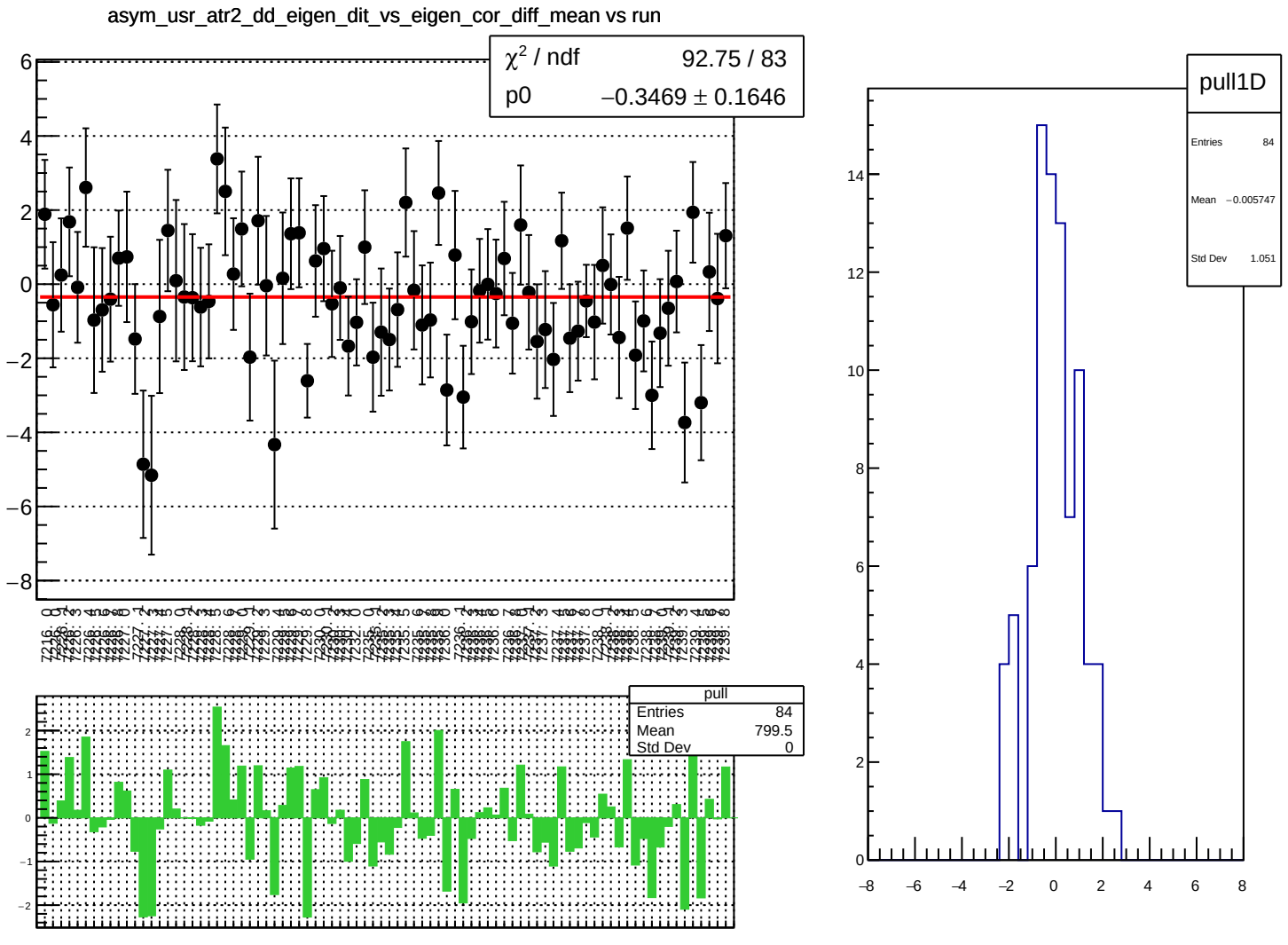

pull1D
Entries 84
Mean −0.02794
Std Dev 0.9784
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

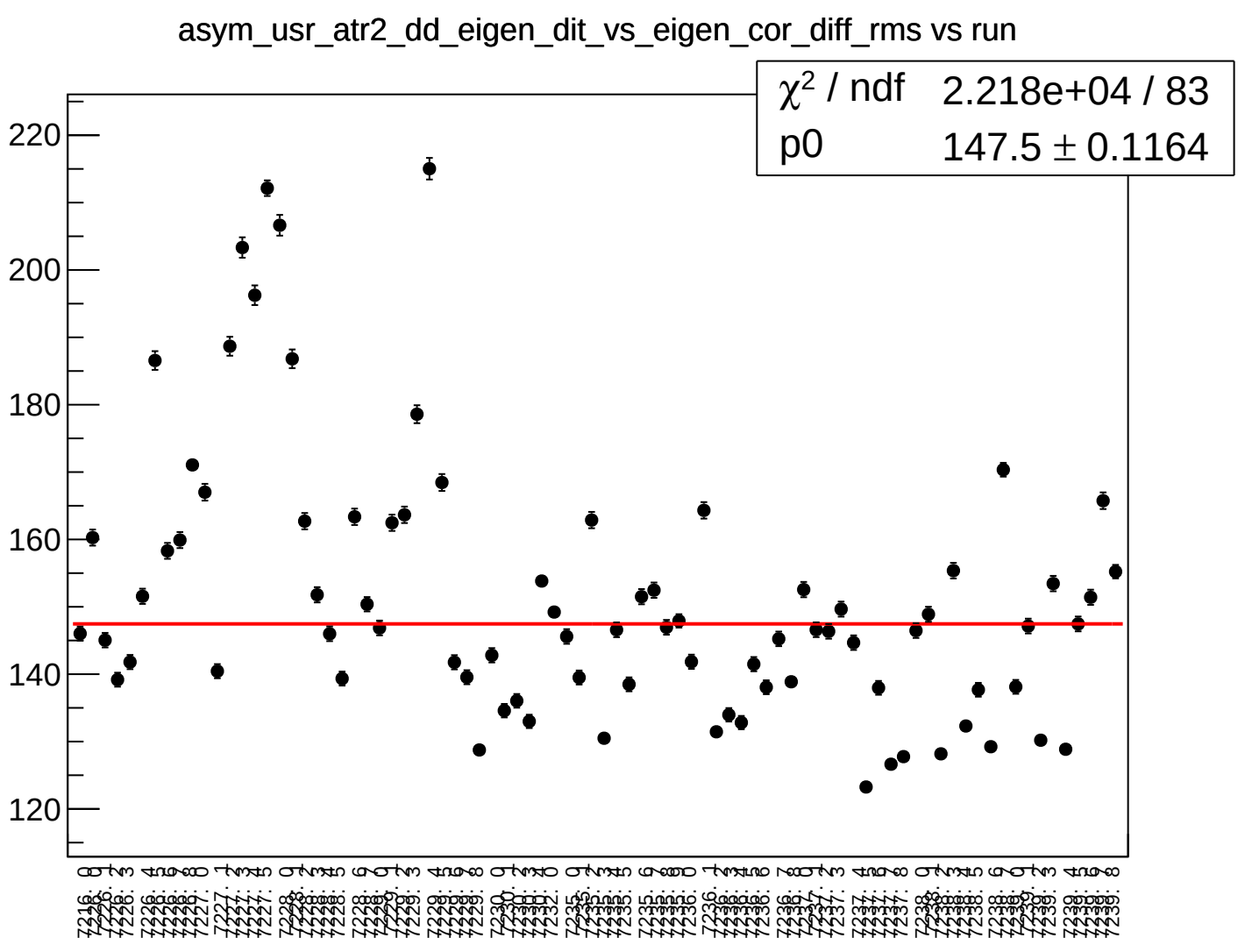

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.036e+05 / 83
p0 0.004697 ± 3.806e−06
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003

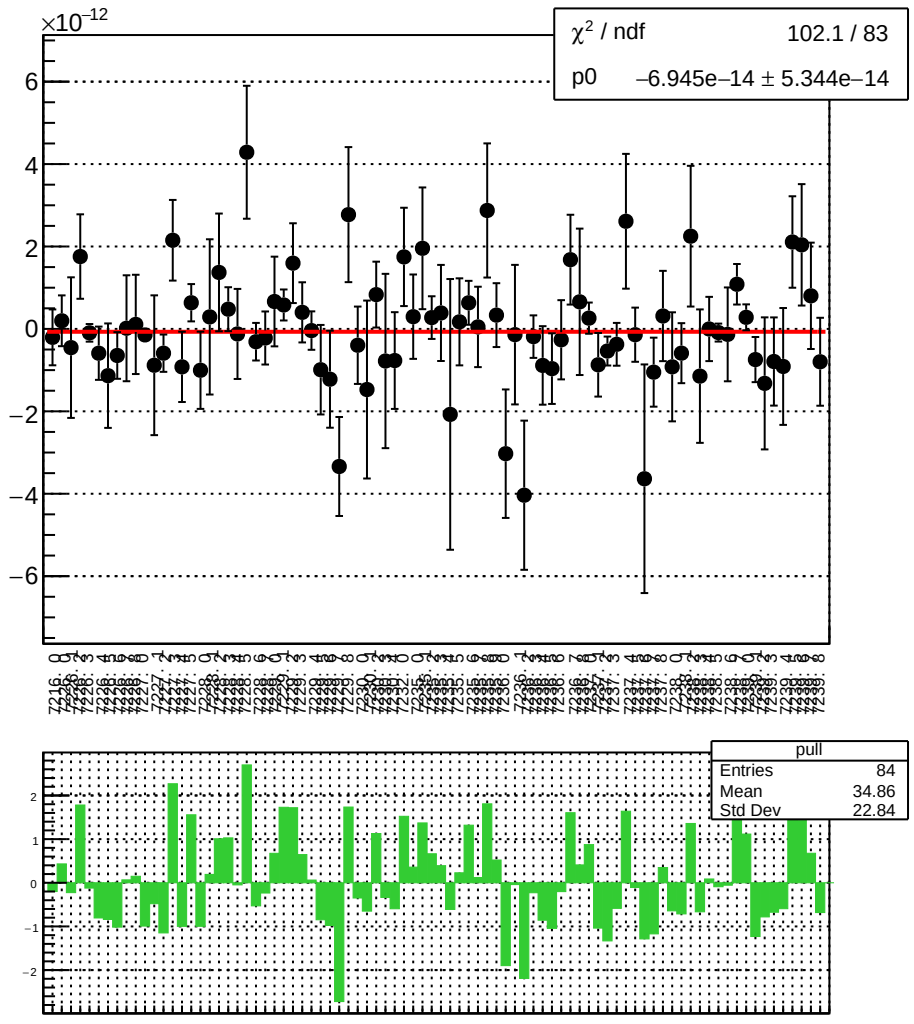

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.75 / 83
p0 −0.3469 ± 0.1646
pull
Entries 84
Mean 799.5
Std Dev 0

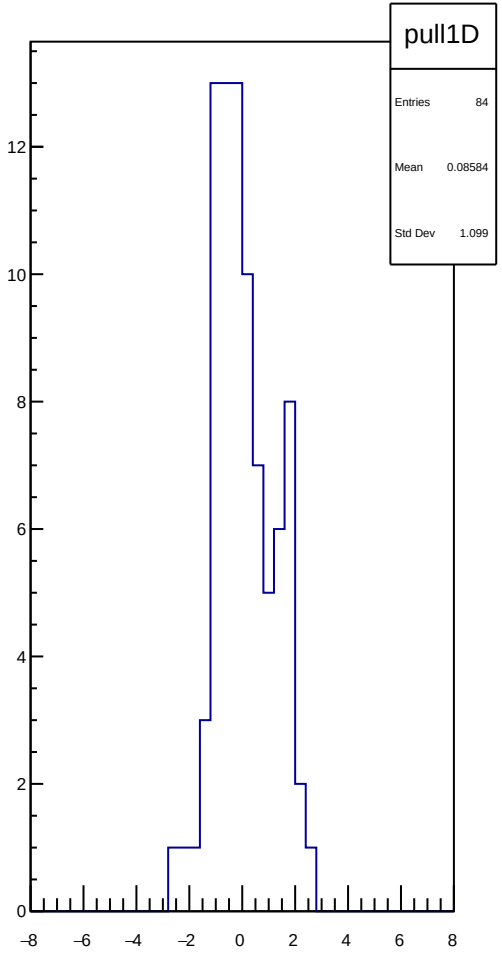

pull1D
Entries 84
Mean −0.005747
Std Dev 1.051

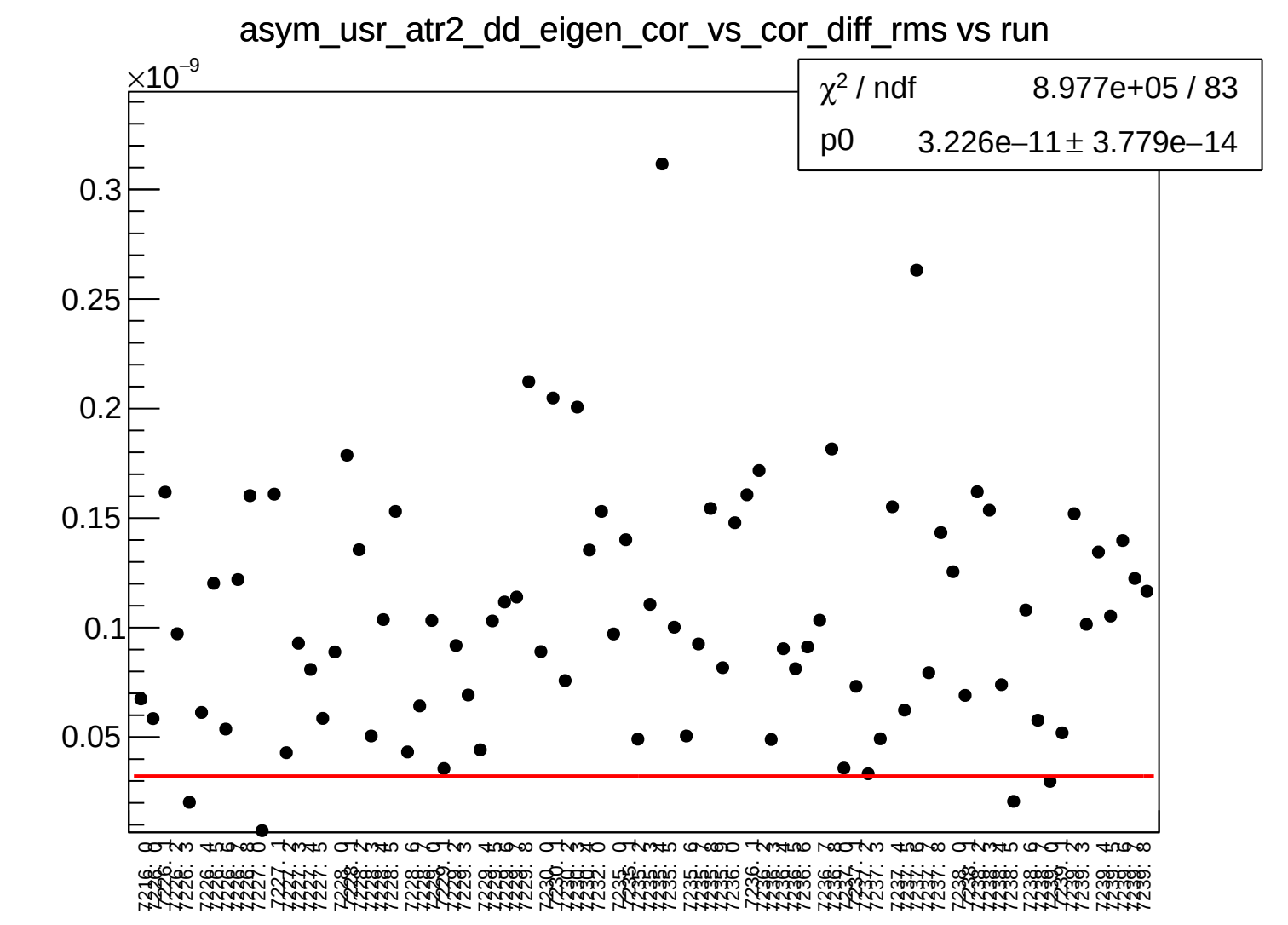

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.218e+04 / 83
p0 147.5 ± 0.1164
220
200
180
160
140
120

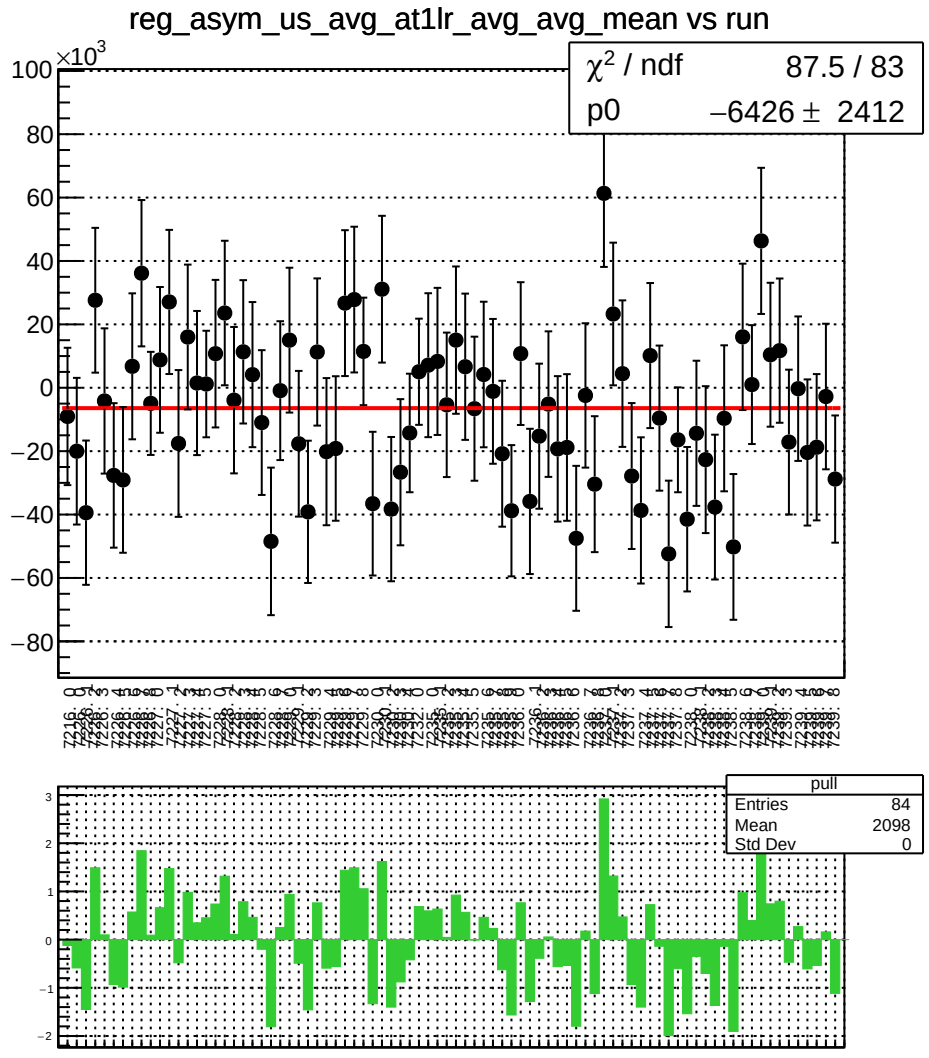

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.75 / 83
p0 −0.3469 ± 0.1646
pull
Entries 84
Mean 799.5
Std Dev 0
pull1D
Entries 84
Mean −0.005747
Std Dev 1.051

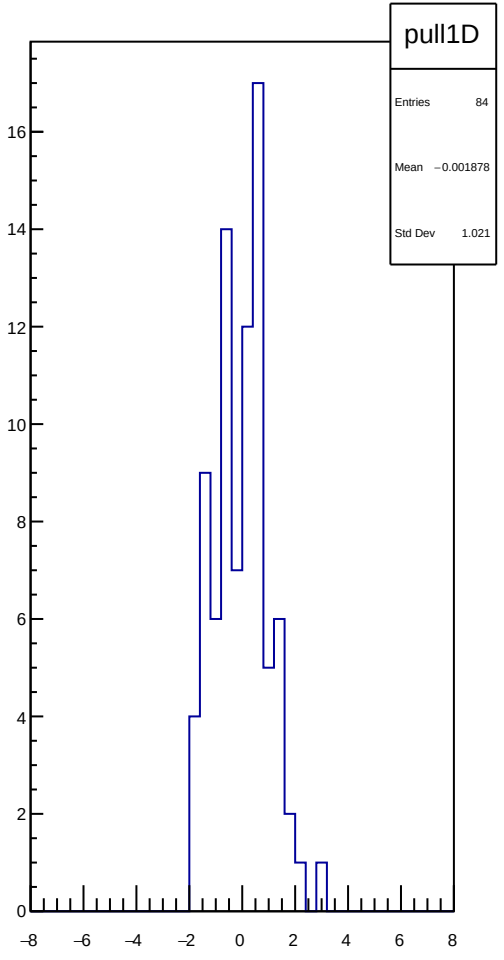

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.218e+04 / 83
p0 147.5 ± 0.1164
220
200
180
160
140
120

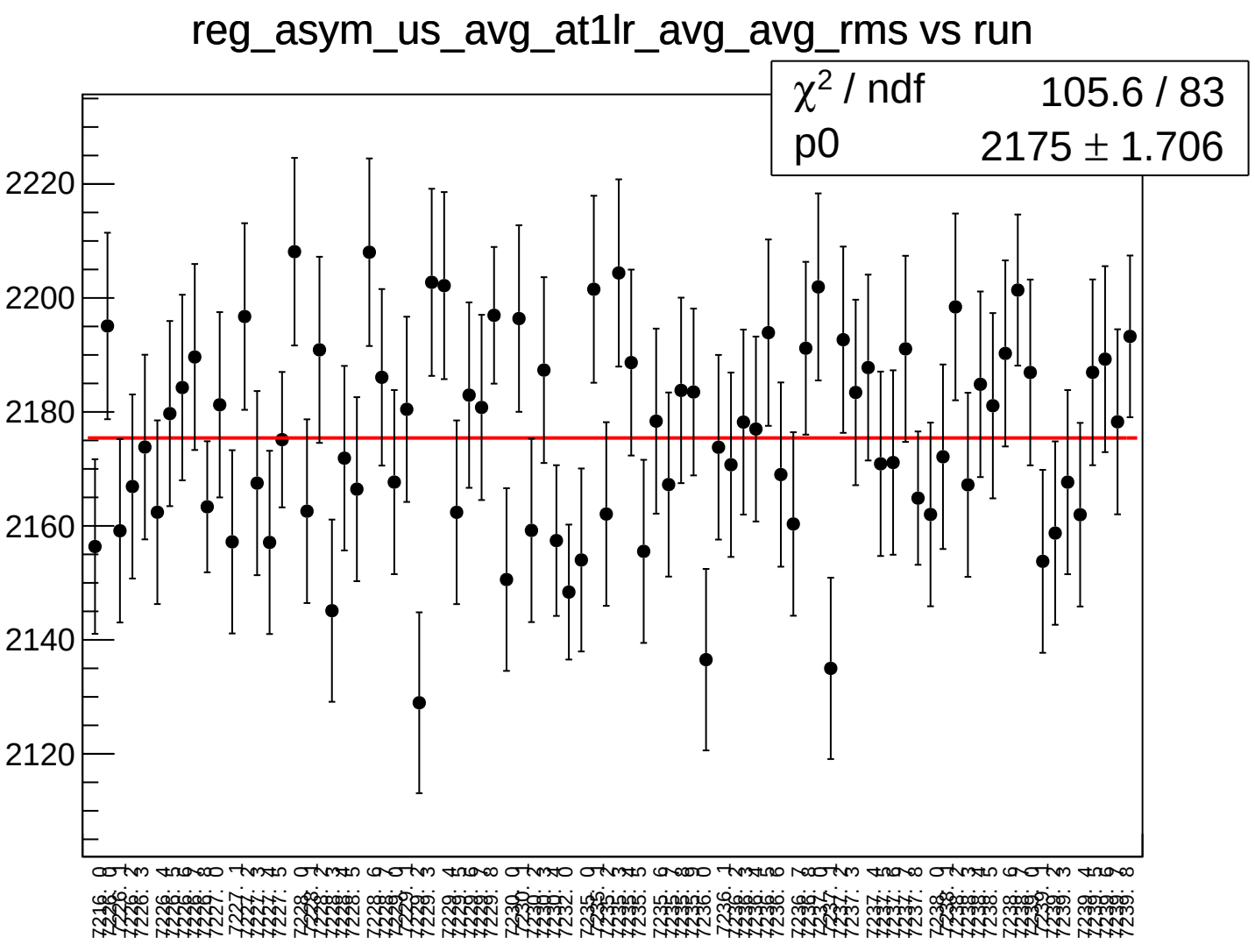

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 102.1 / 83
p0 −6.945e−14 ± 5.344e−14
pull
Entries 84
Mean 34.86
Std Dev 22.84

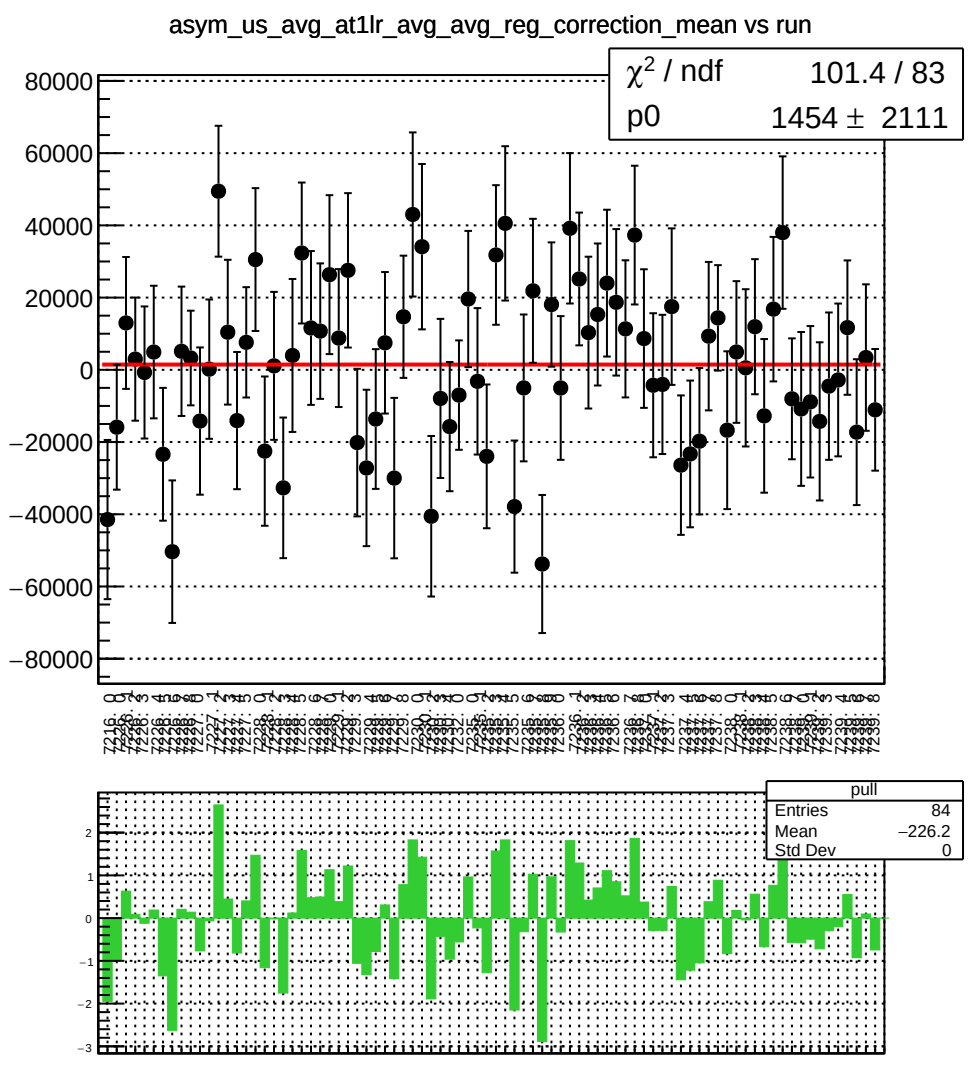

pull1D
Entries 84
Mean 0.08584
Std Dev 1.099

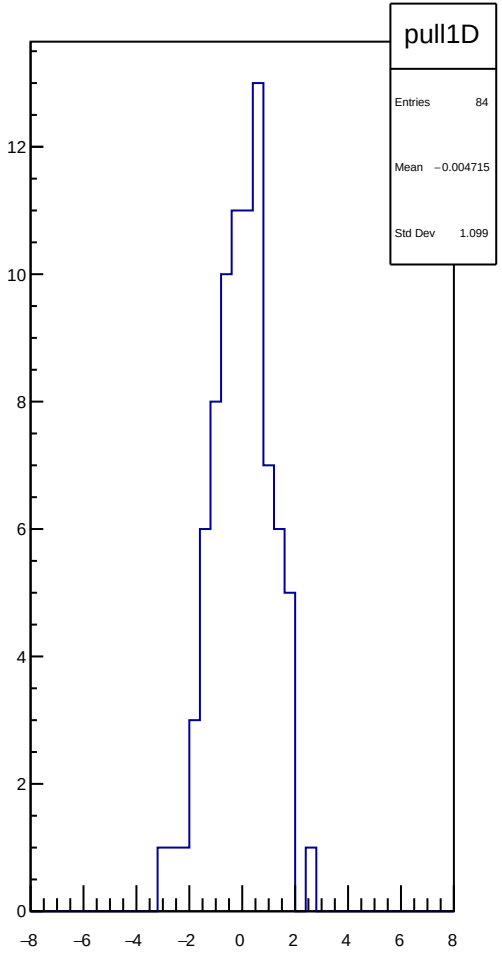

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.977e+05 / 83
p0 3.226e−11 ± 3.779e−14
0.3
0.25
0.2
0.15
0.1
0.05

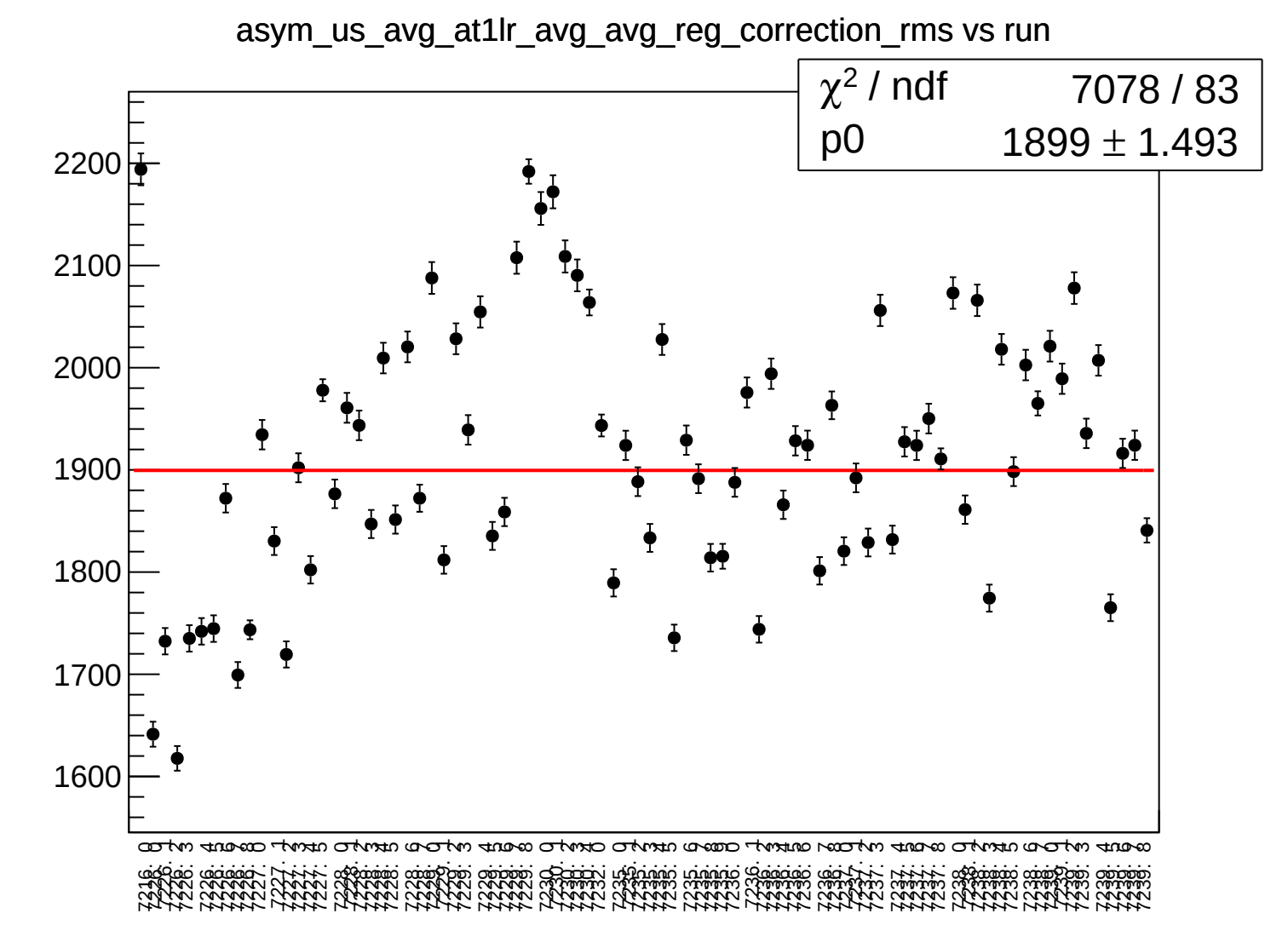

reg_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 87.5 / 83
p0 −6426 ± 2412
pull
Entries 84
Mean 2098
Std Dev 0

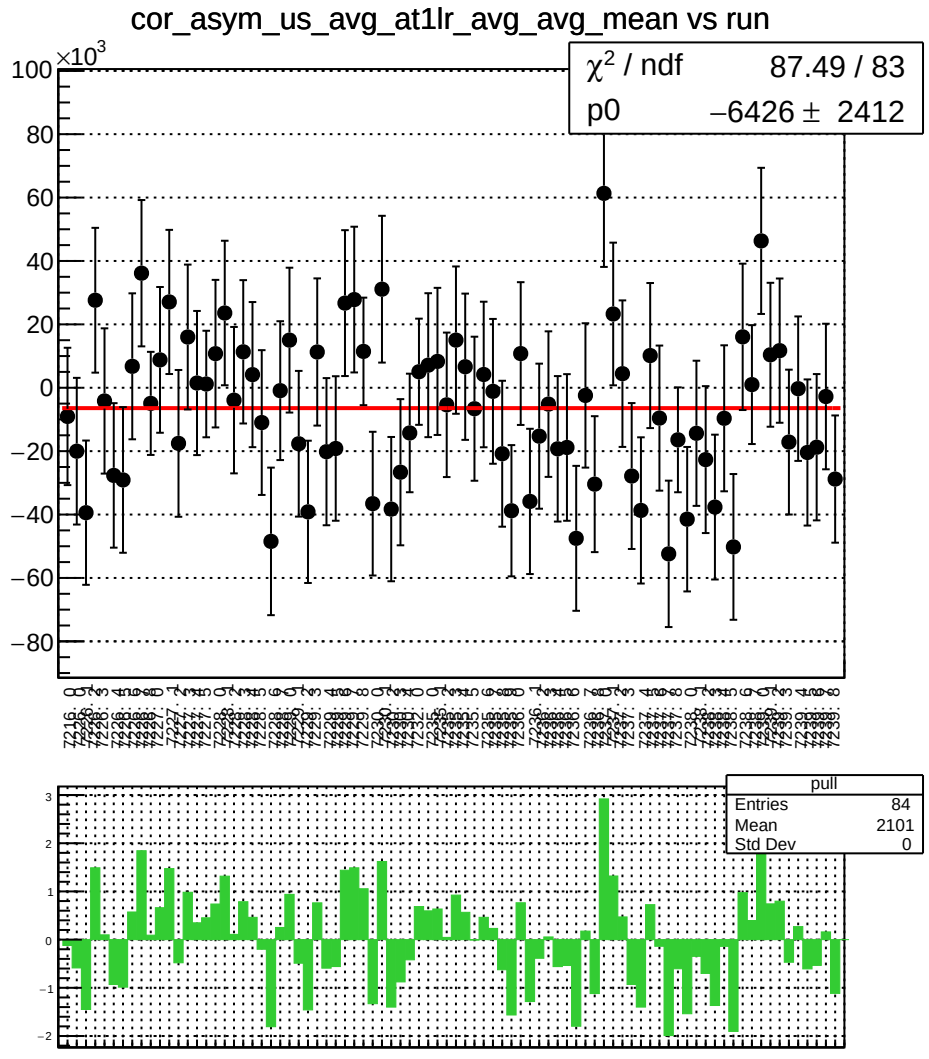

pull1D
Entries 84
Mean −0.001878
Std Dev 1.021

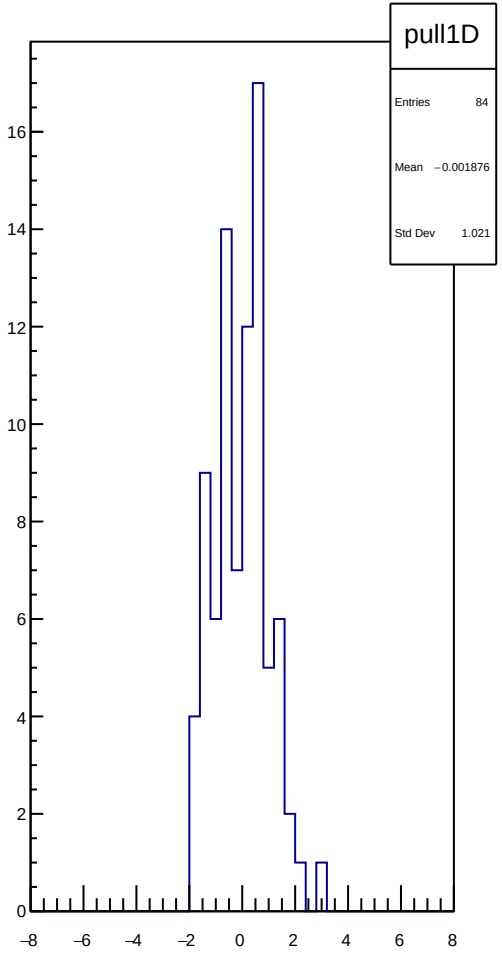

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ^2 / ndf 105.6 / 83
p0 2175 ± 1.706
2220
2200
2180
2160
2140
2120

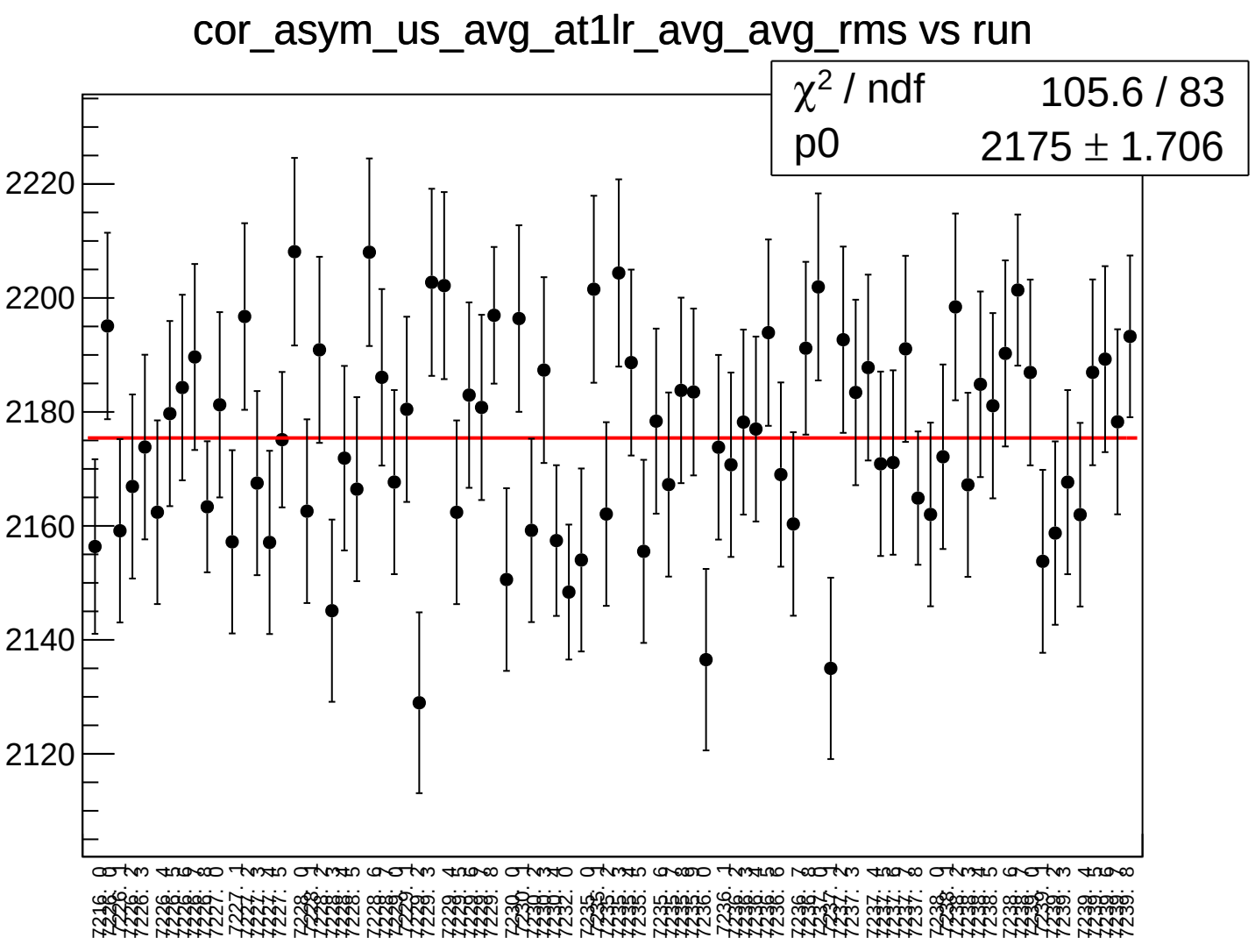

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
χ² / ndf 101.4 / 83
p0 1454 ± 2111
pull
Entries 84
Mean −226.2
Std Dev 0

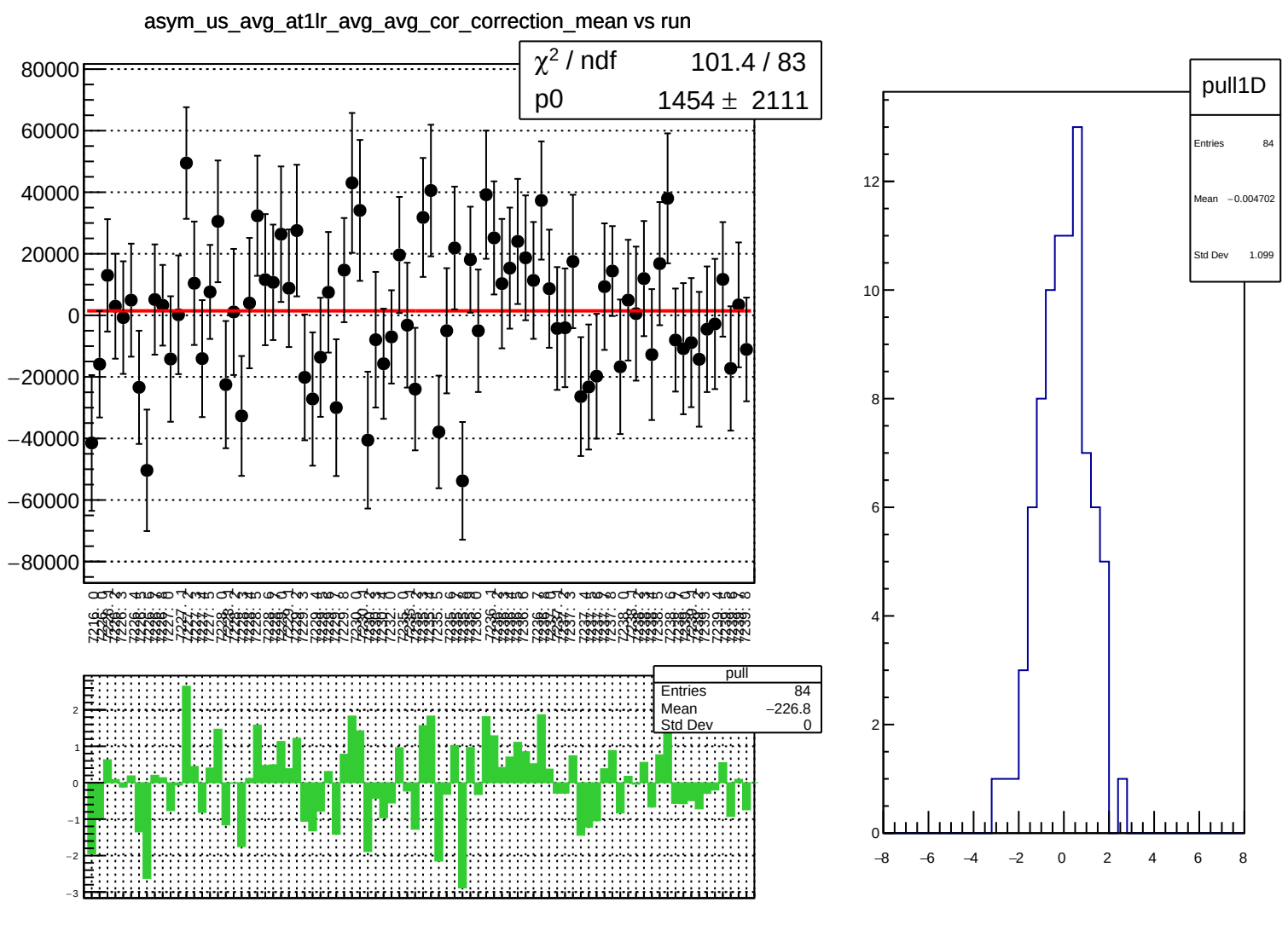

pull1D
Entries 84
Mean −0.004715
Std Dev 1.099

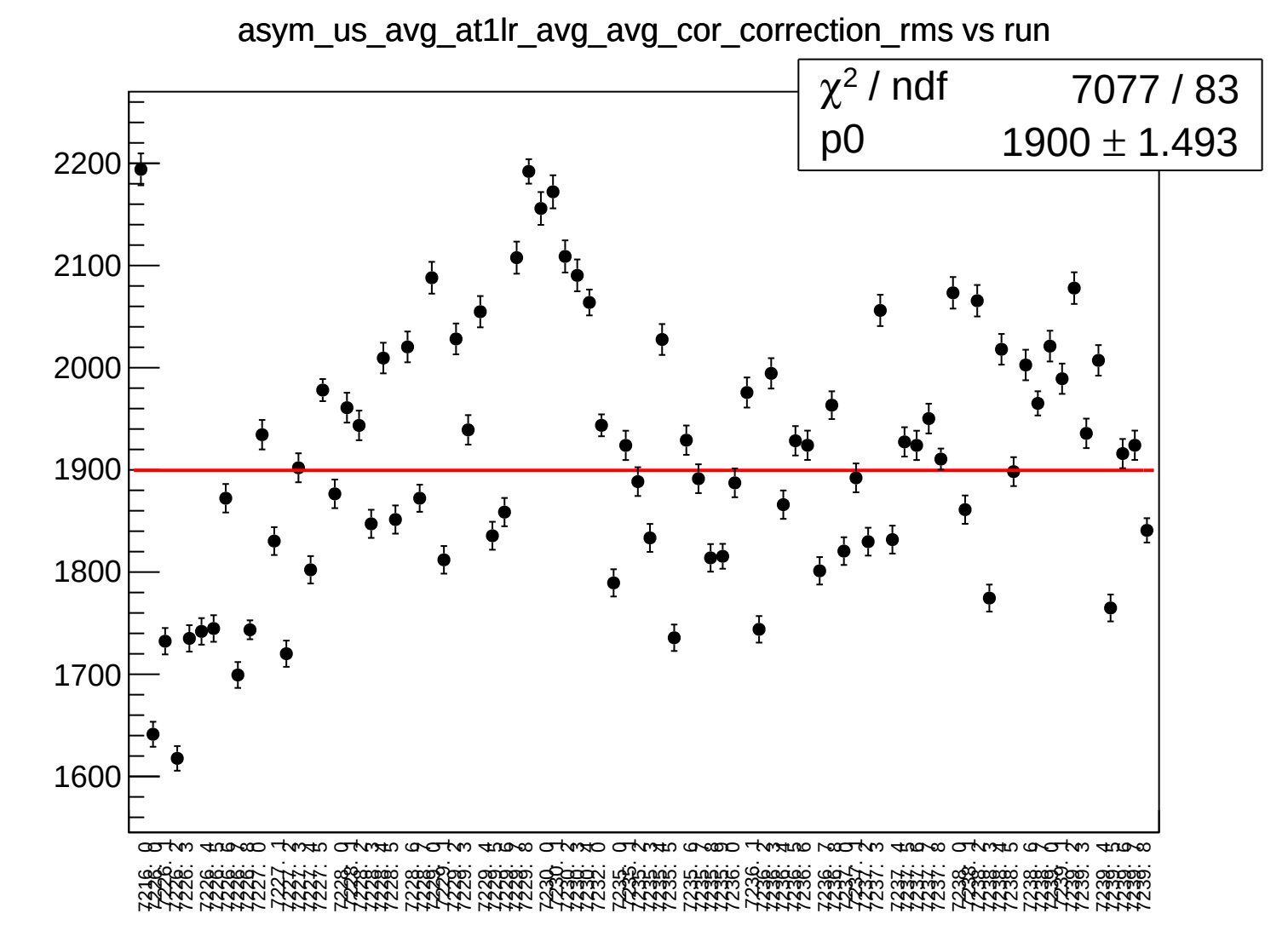

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ^2 / ndf 7078 / 83
p0 1899 ± 1.493
2200
2100
2000
1900
1800
1700
1600

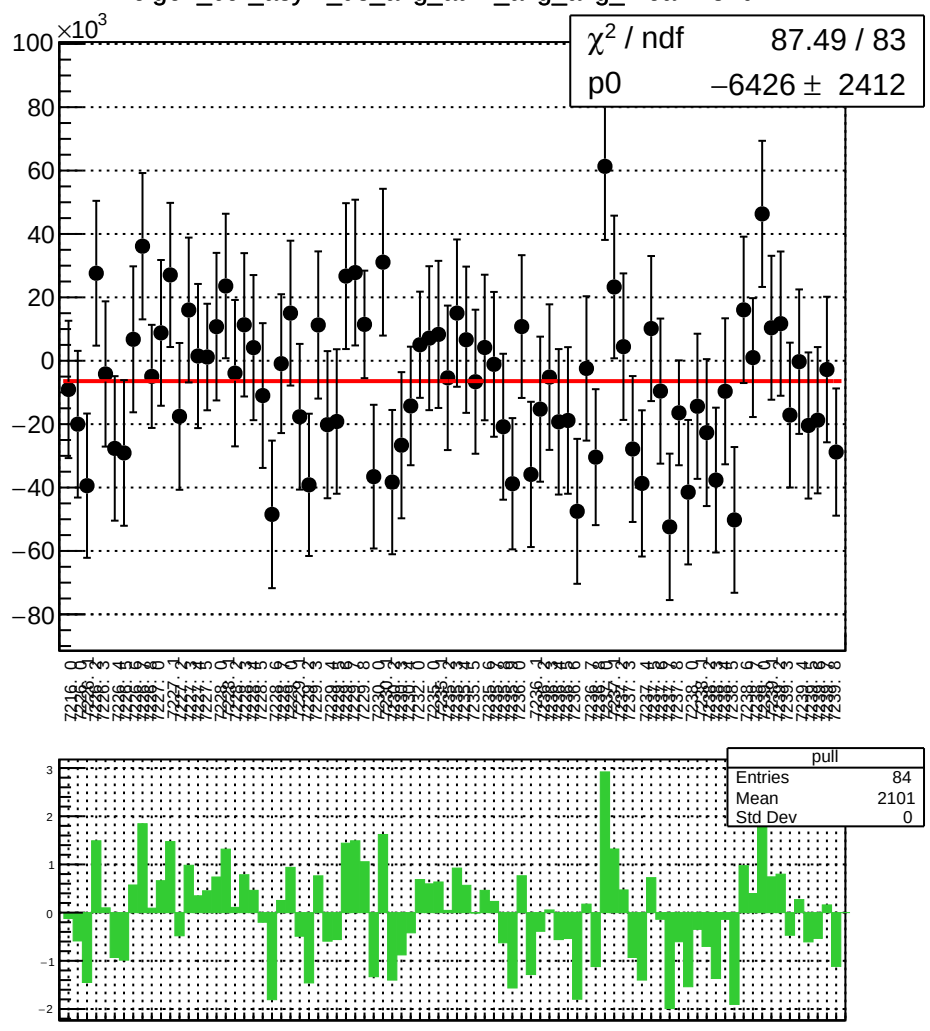

cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ^2 / ndf 87.49 / 83
p0 −6426 ± 2412
×10^3
pull
Entries 84
Mean 2101
Std Dev 0

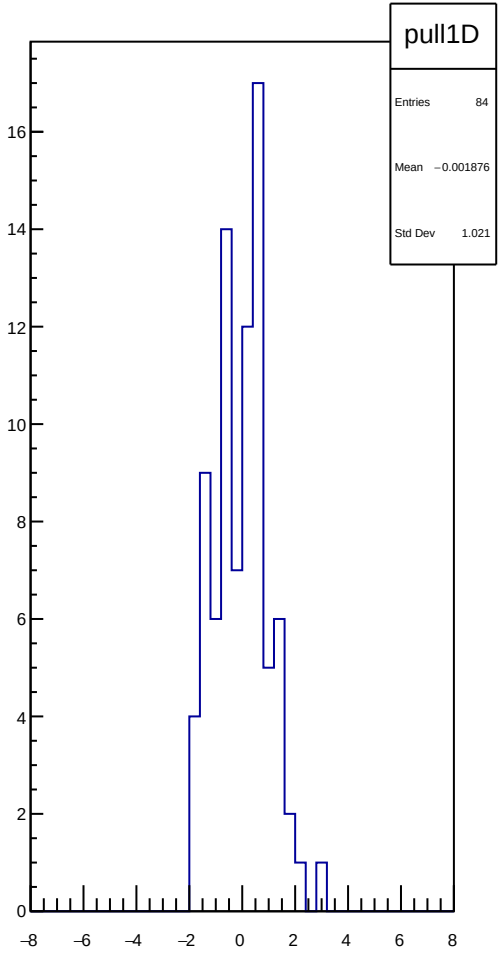

pull1D
Entries 84
Mean −0.001876
Std Dev 1.021

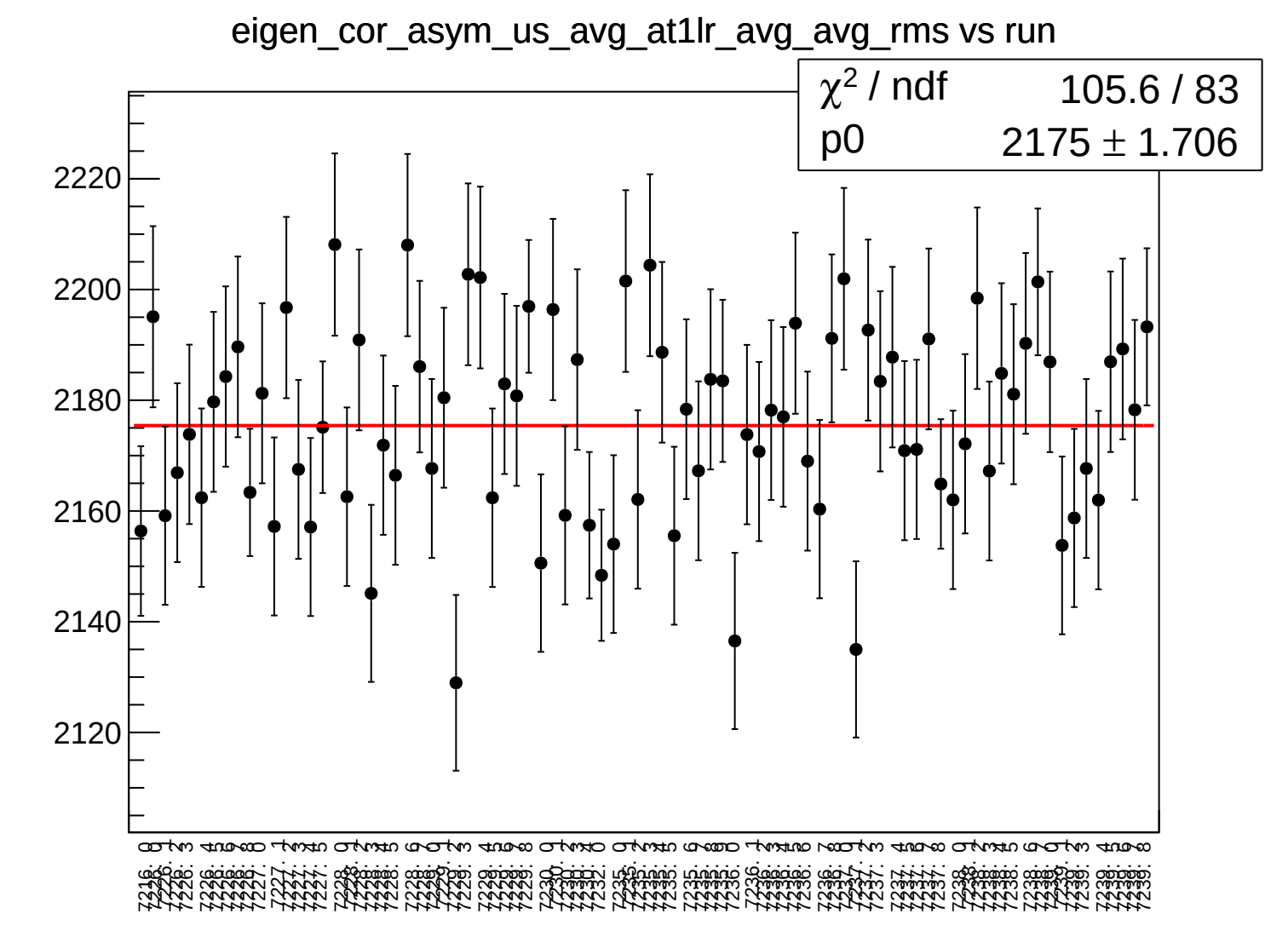

cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ^2 / ndf 105.6 / 83
p0 2175 ± 1.706
2220
2200
2180
2160
2140
2120

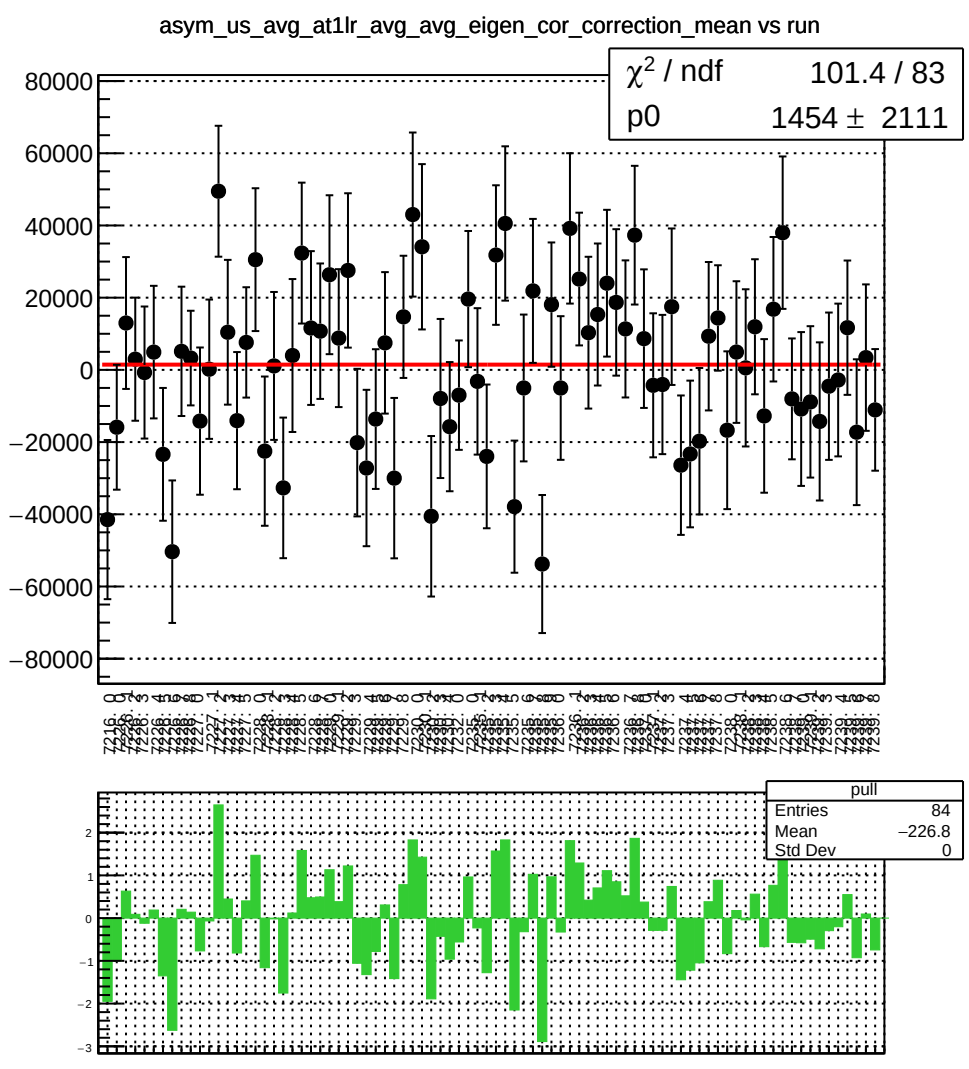

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
χ² / ndf 101.4 / 83
p0 1454 ± 2111
pull
Entries 84
Mean −226.8
Std Dev 0
pull1D
Entries 84
Mean −0.004702
Std Dev 1.099

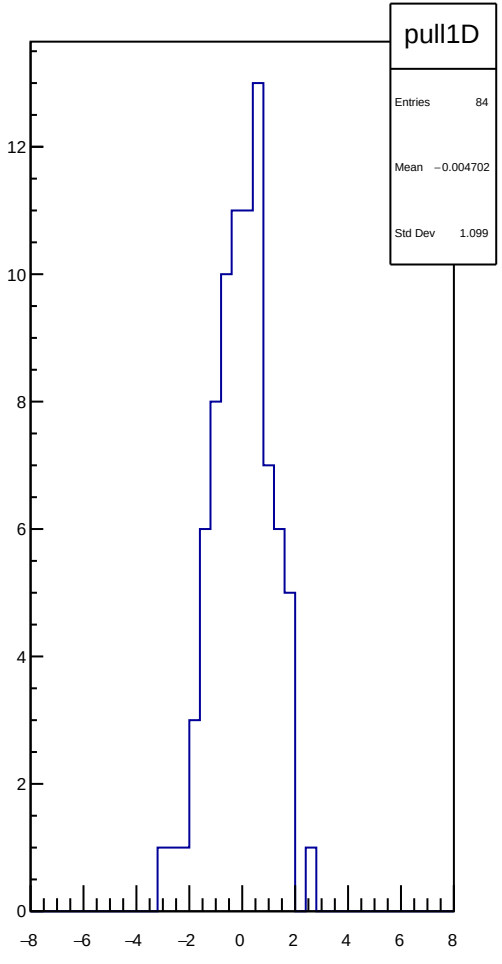

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 7077 / 83
p0 1900 ± 1.493
2200
2100
2000
1900
1800
1700
1600

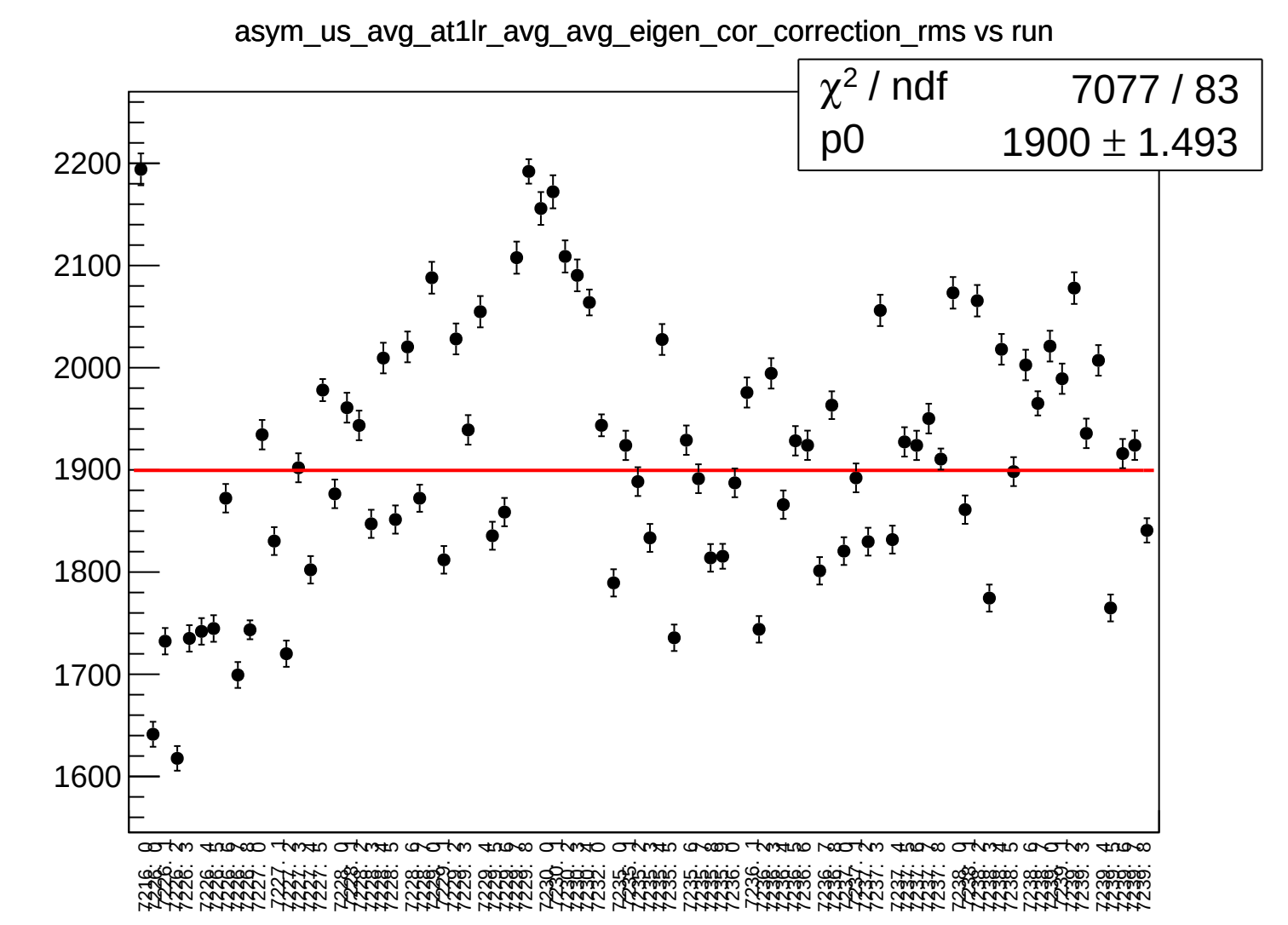

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 87.49 / 83
p0 −6426 ± 2412
pull
Entries 84
Mean 2101
Std Dev 0

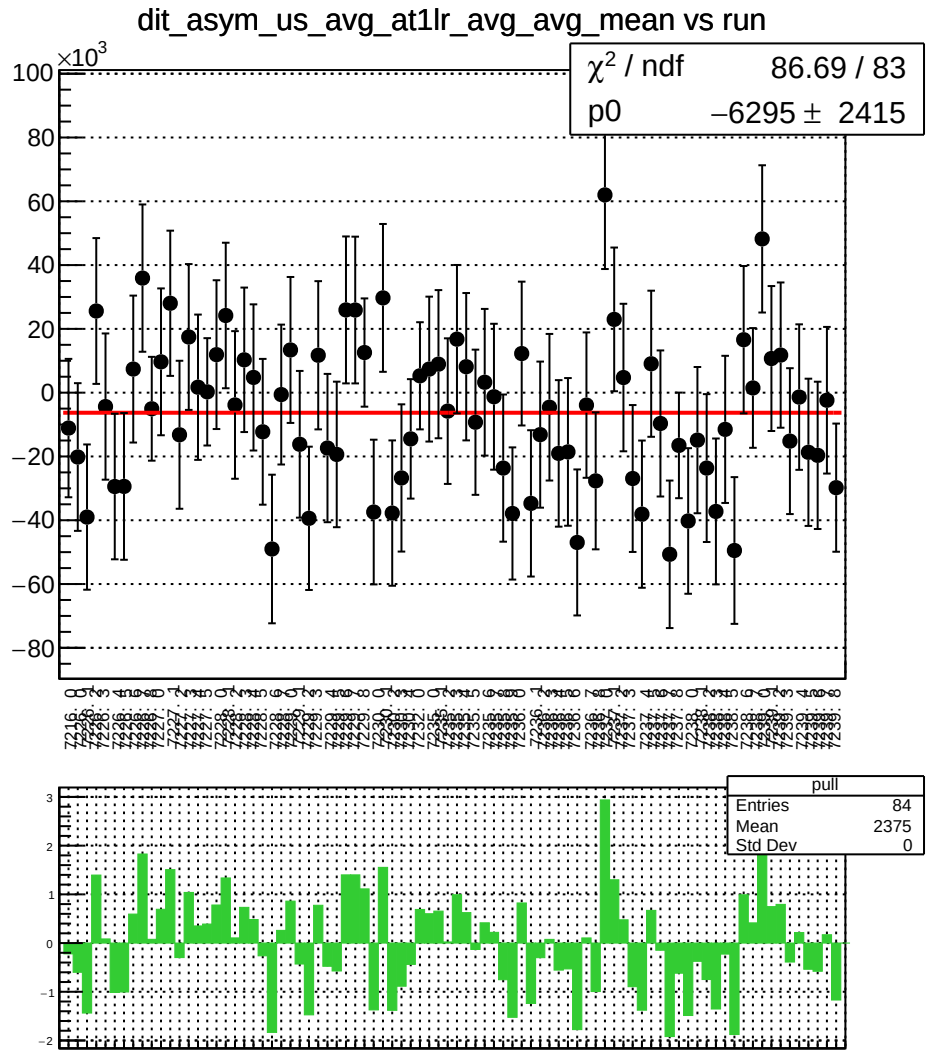

pull1D
Entries 84
Mean −0.001876
Std Dev 1.021

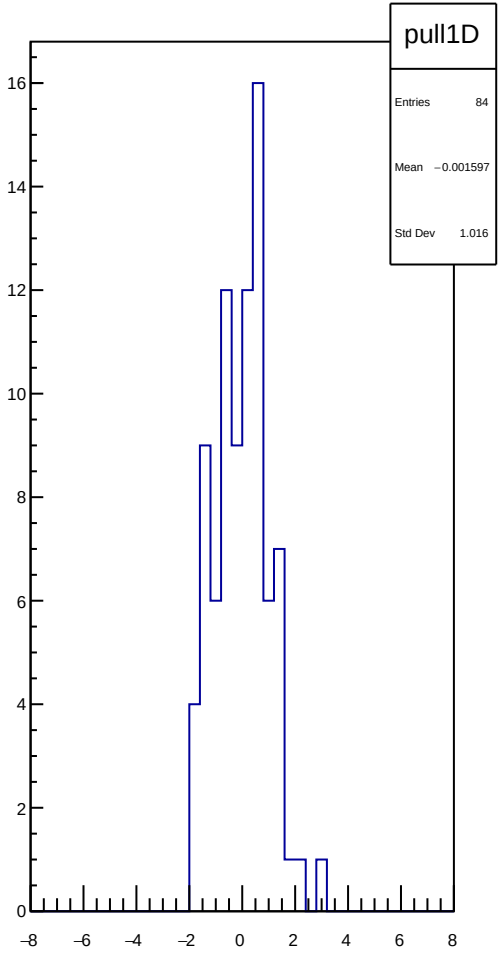

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 105.6 / 83
p0 2175 ± 1.706
2220
2200
2180
2160
2140
2120

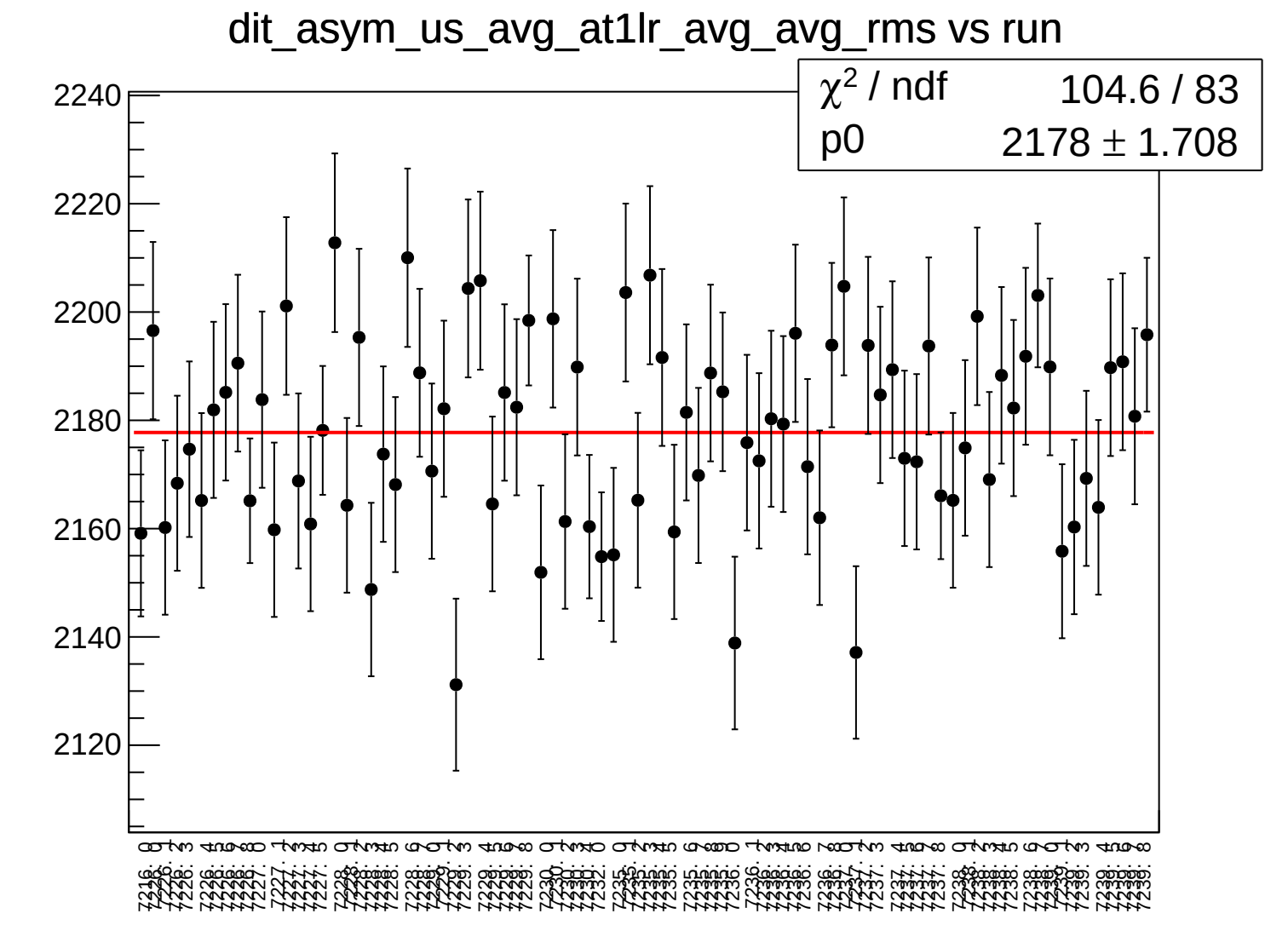

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
χ² / ndf 101.4 / 83
p0 1454 ± 2111
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean −226.8
Std Dev 0
2
1
0
−1
−2
−3

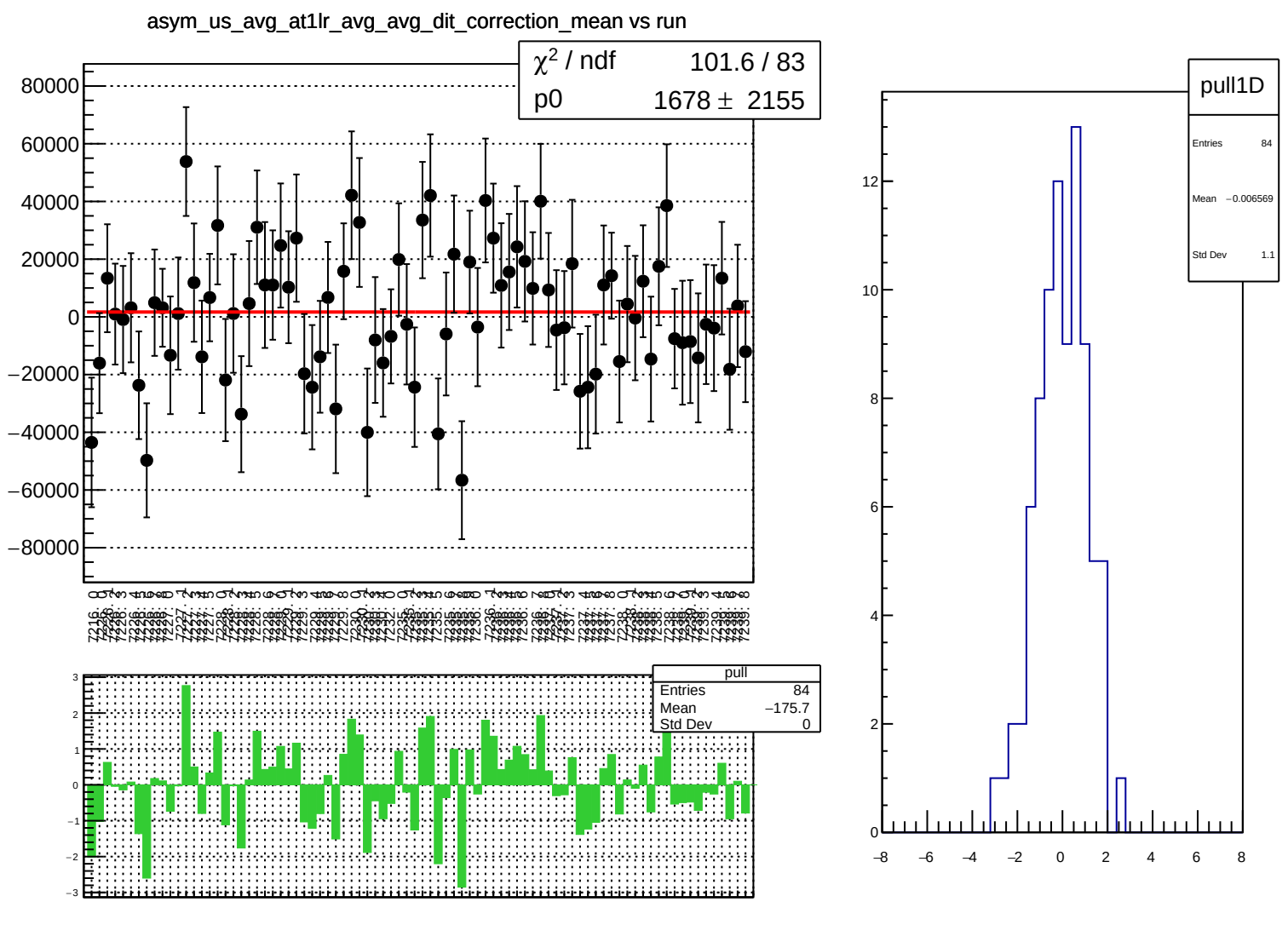

pull1D
Entries 84
Mean −0.004702
Std Dev 1.099
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

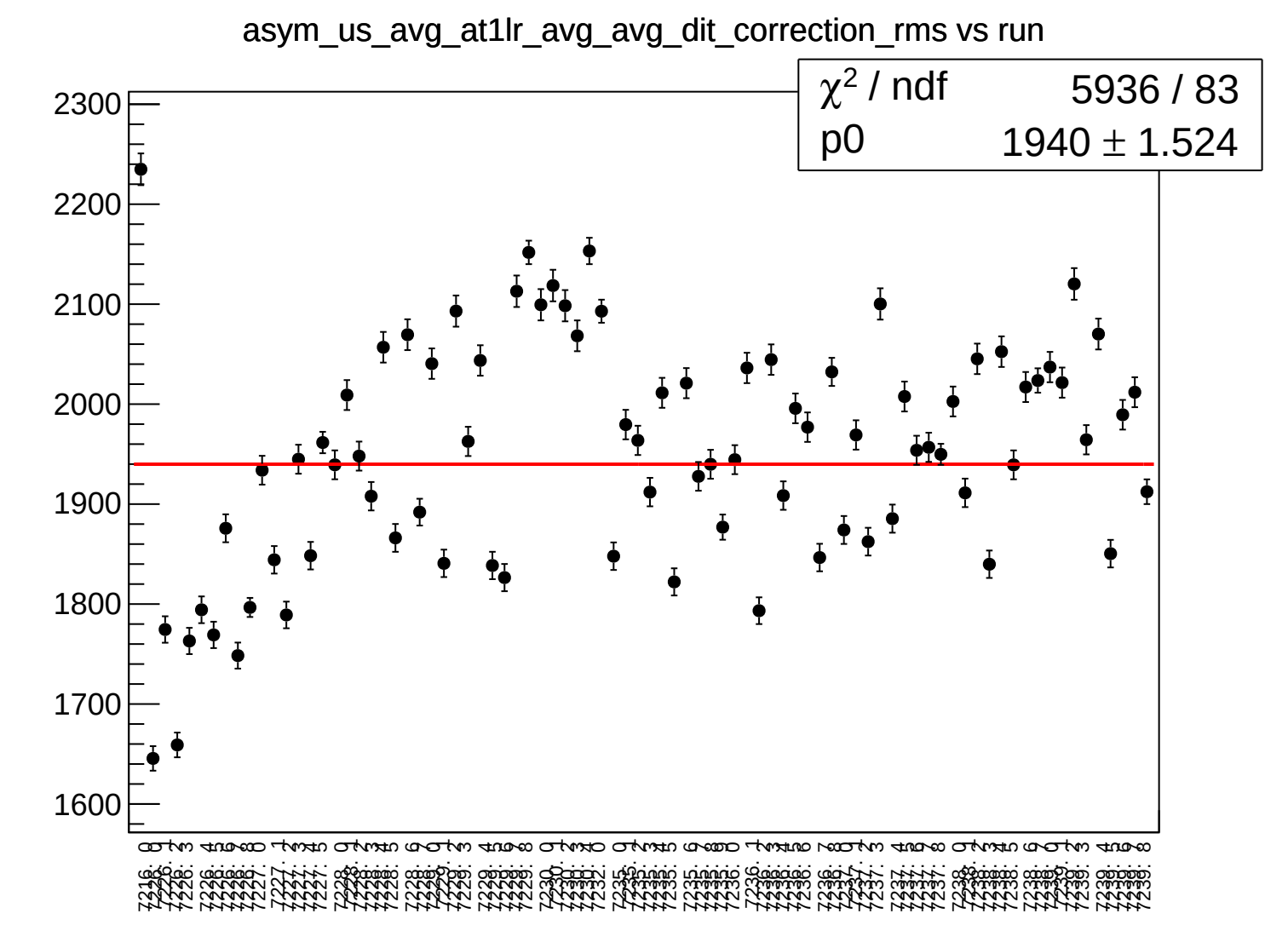

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 7077 / 83
p0 1900 ± 1.493
2200
2100
2000
1900
1800
1700
1600

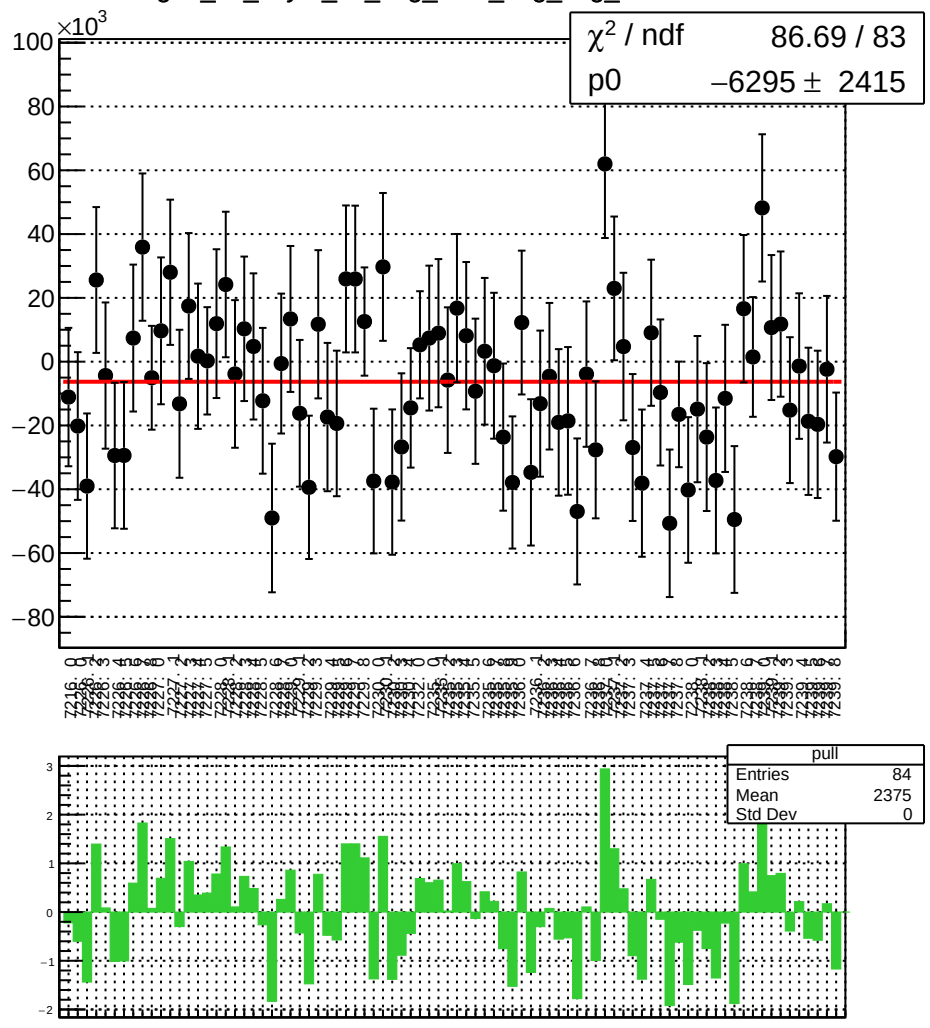

dit_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 86.69 / 83
p0 −6295 ± 2415
pull
Entries 84
Mean 2375
Std Dev 0

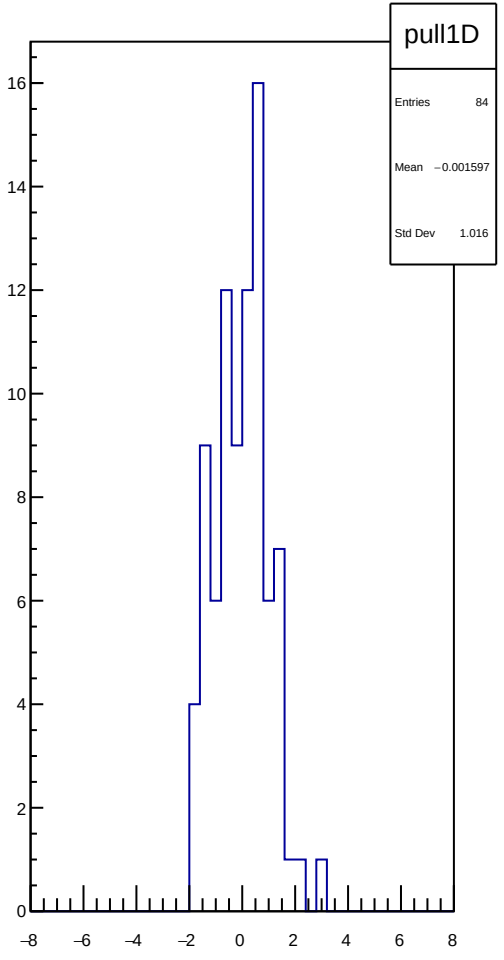

pull1D
Entries 84
Mean −0.001597
Std Dev 1.016

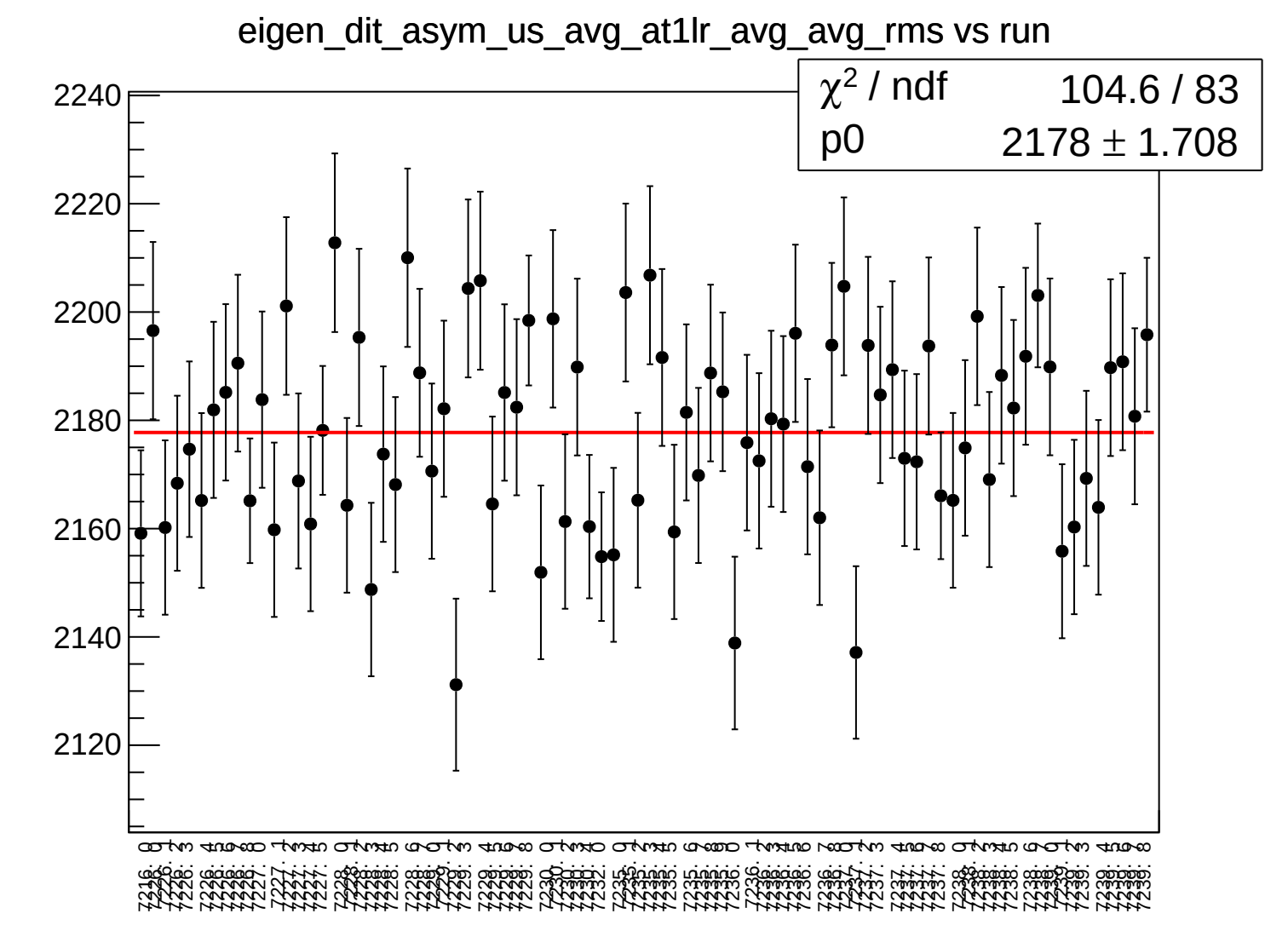

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 104.6 / 83
p0 2178 ± 1.708
2240
2220
2200
2180
2160
2140
2120

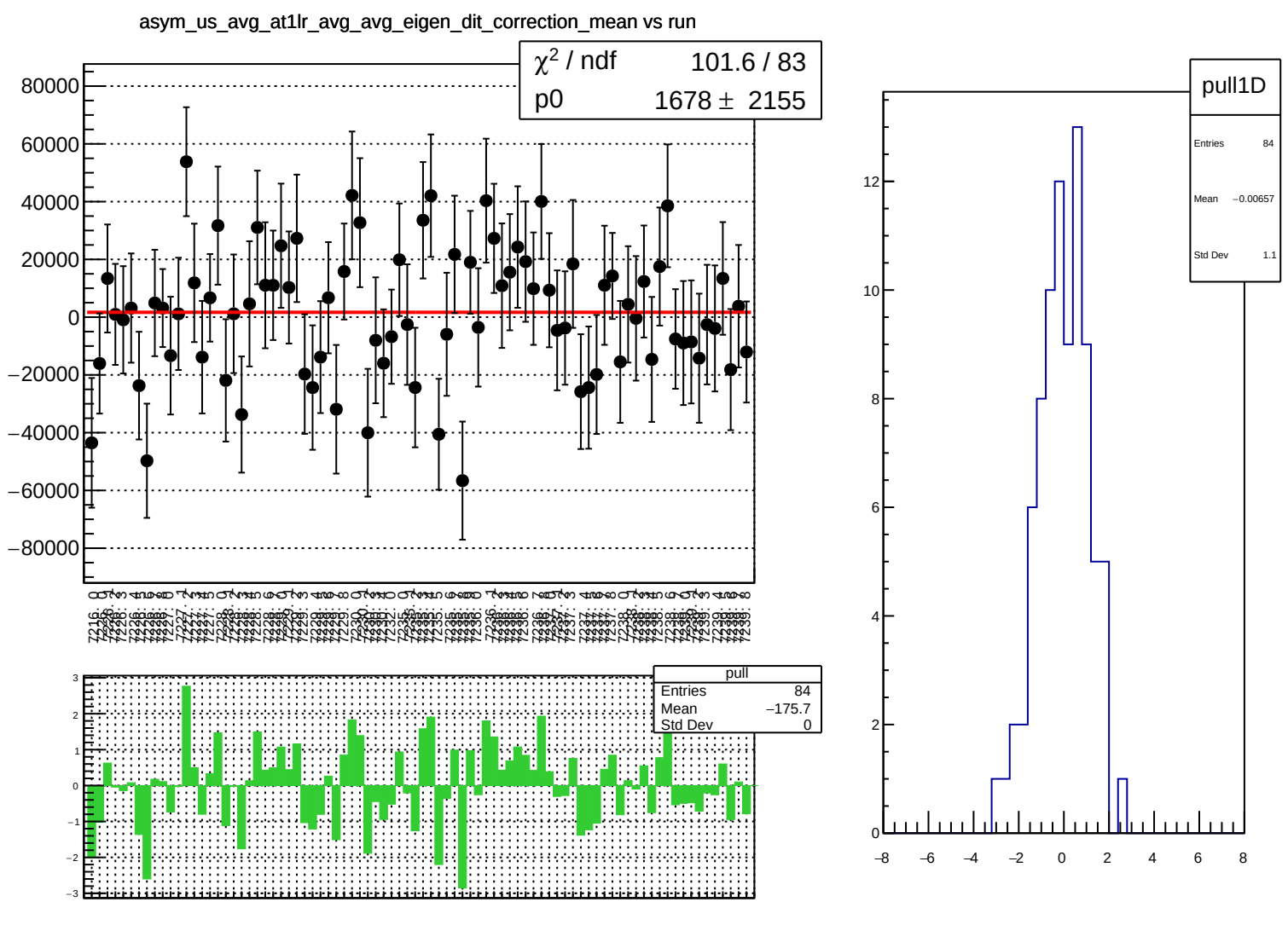

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
χ² / ndf 101.6 / 83
p0 1678 ± 2155
pull
Entries 84
Mean −175.7
Std Dev 0
pull1D
Entries 84
Mean −0.006569
Std Dev 1.1

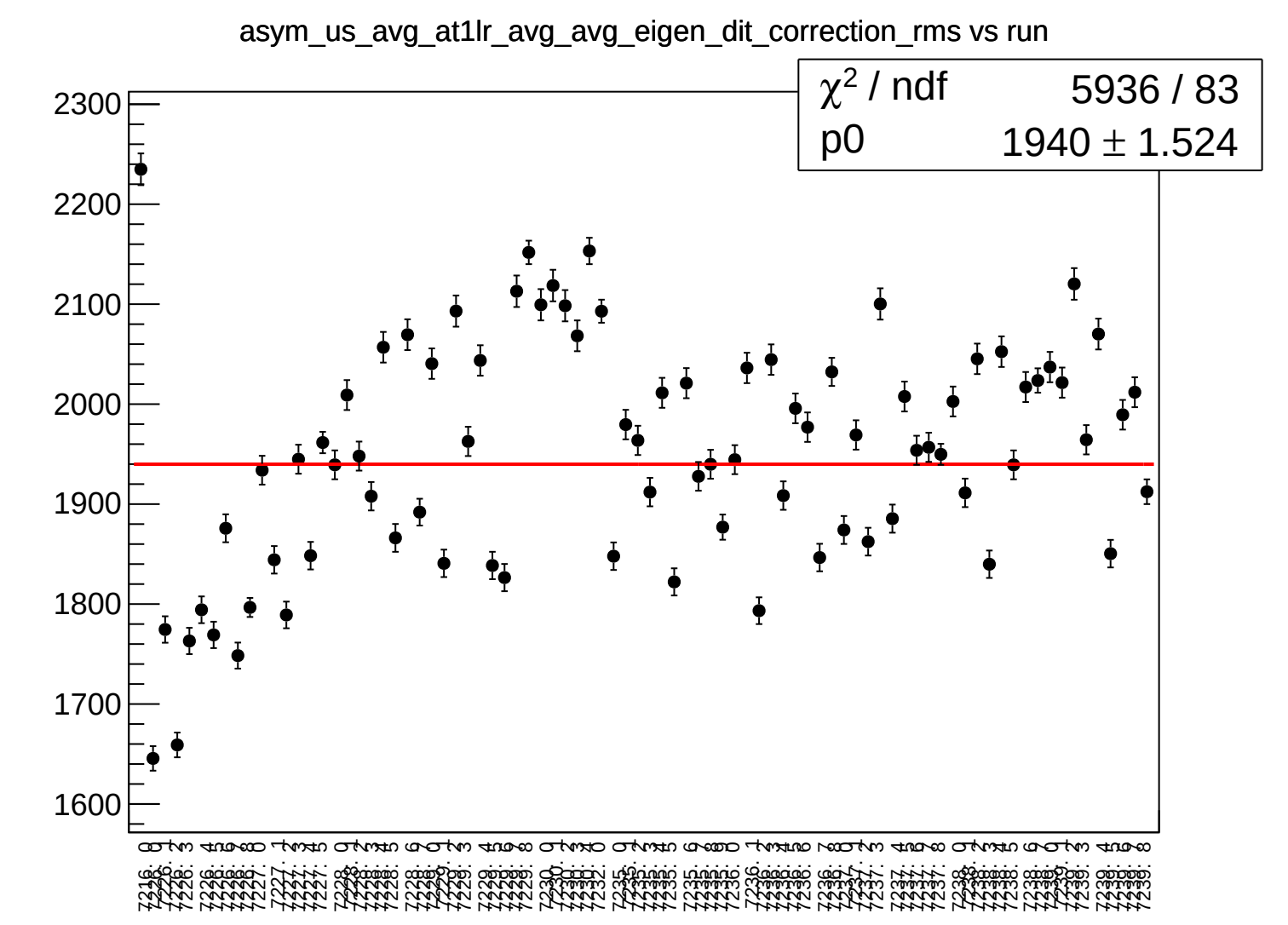

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 5936 / 83
p0 1940 ± 1.524
2300
2200
2100
2000
1900
1800
1700
1600

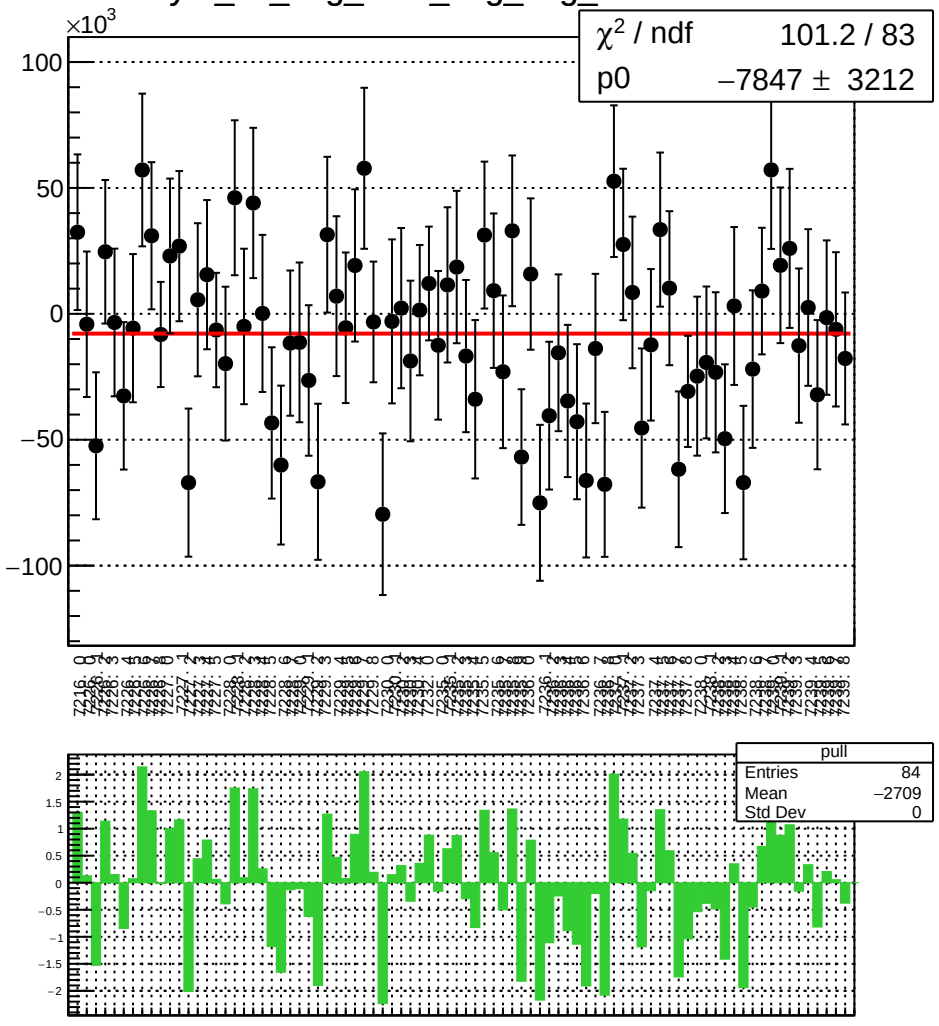

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ^2 / ndf 86.69 / 83
p0 −6295 ± 2415
×10^3
pull
Entries 84
Mean 2375
Std Dev 0

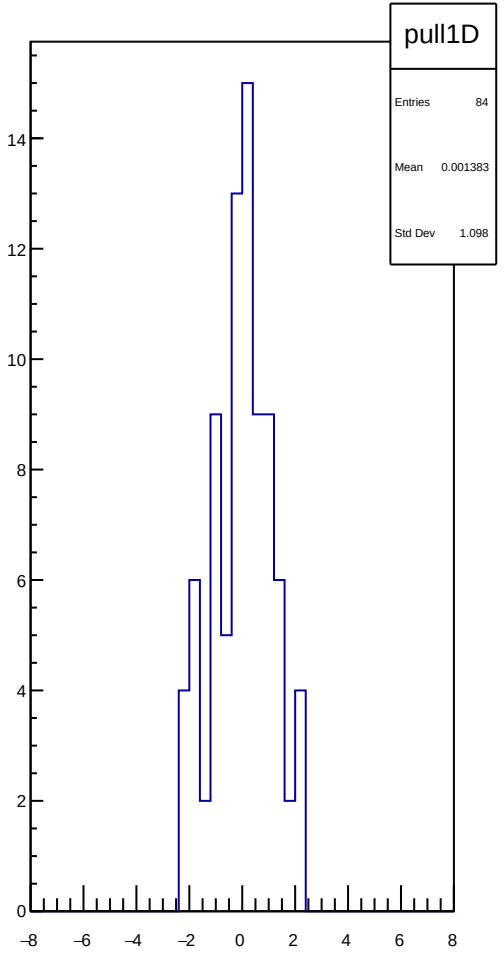

pull1D
Entries 84
Mean −0.001597
Std Dev 1.016

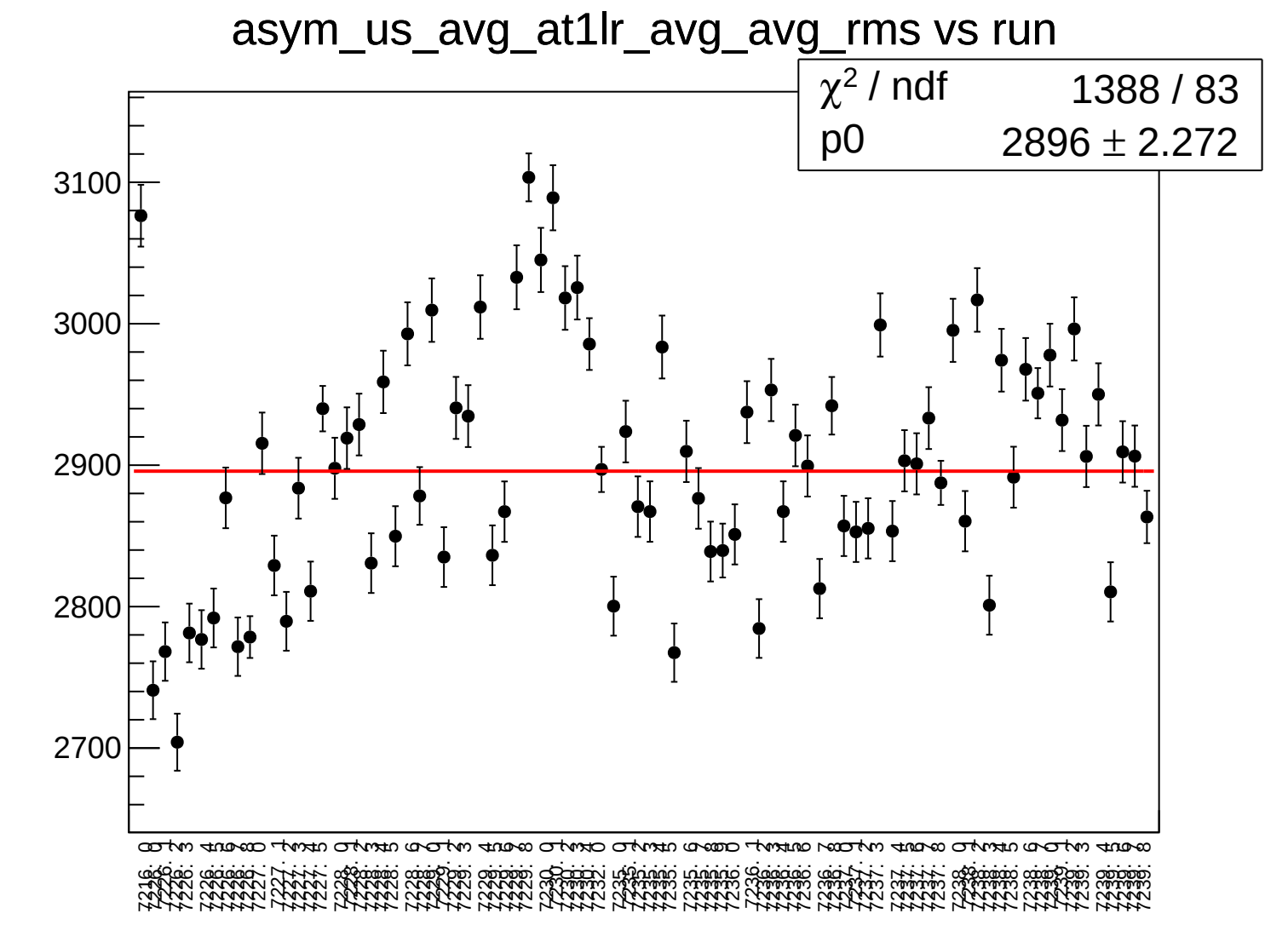

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 104.6 / 83
p0 2178 ± 1.708
2240
2220
2200
2180
2160
2140
2120

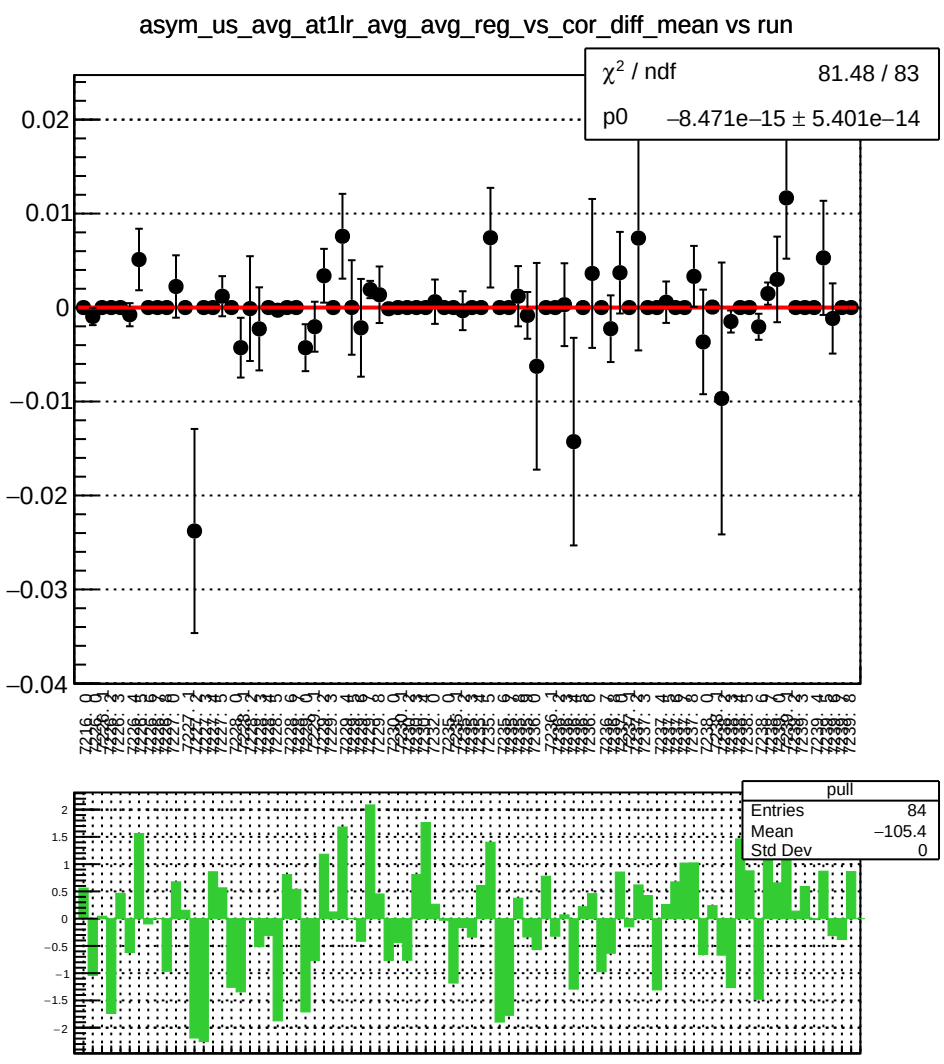

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
χ² / ndf 101.6 / 83
p0 1678 ± 2155
pull
Entries 84
Mean −175.7
Std Dev 0
pull1D
Entries 84
Mean −0.00657
Std Dev 1.1

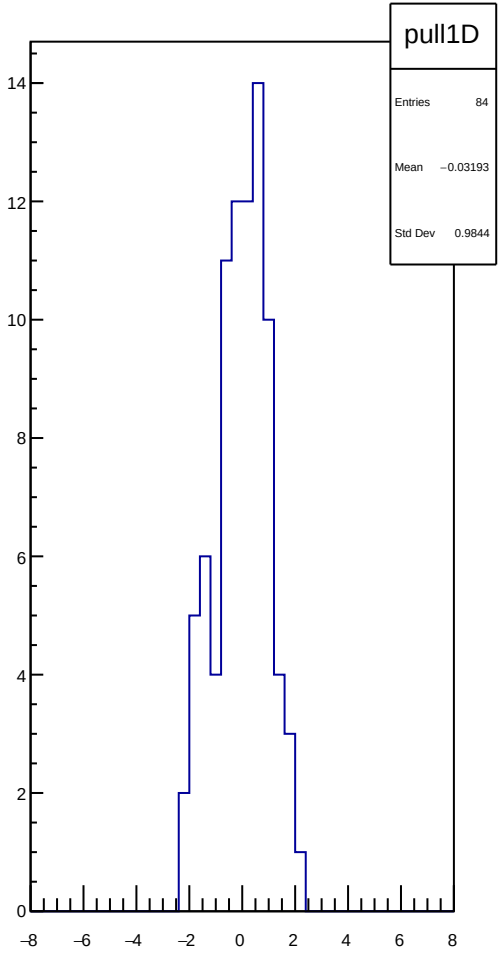

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 5936 / 83
p0 1940 ± 1.524
2300
2200
2100
2000
1900
1800
1700
1600

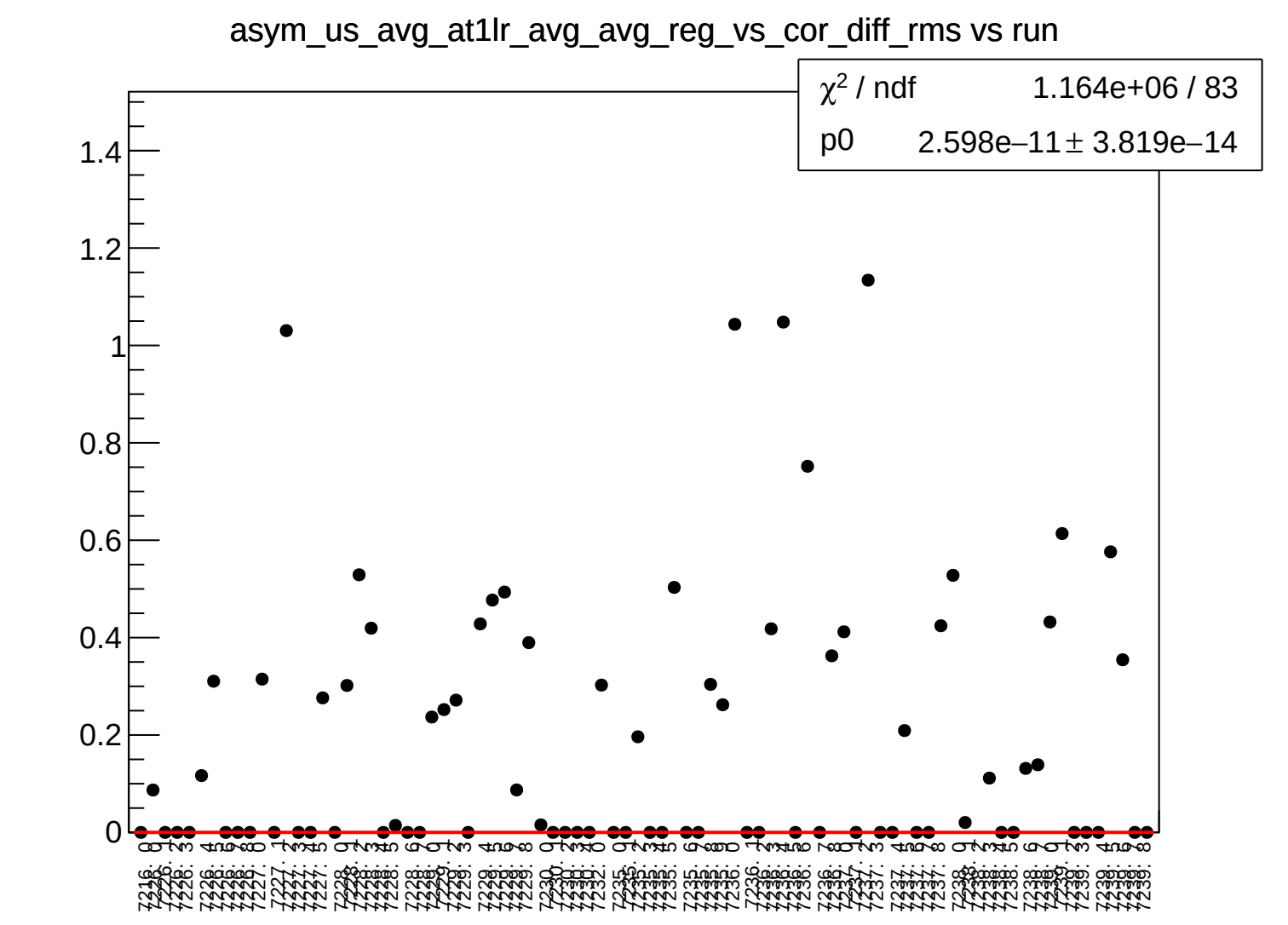

asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 101.2 / 83
p0 −7847 ± 3212
pull
Entries 84
Mean −2709
Std Dev 0

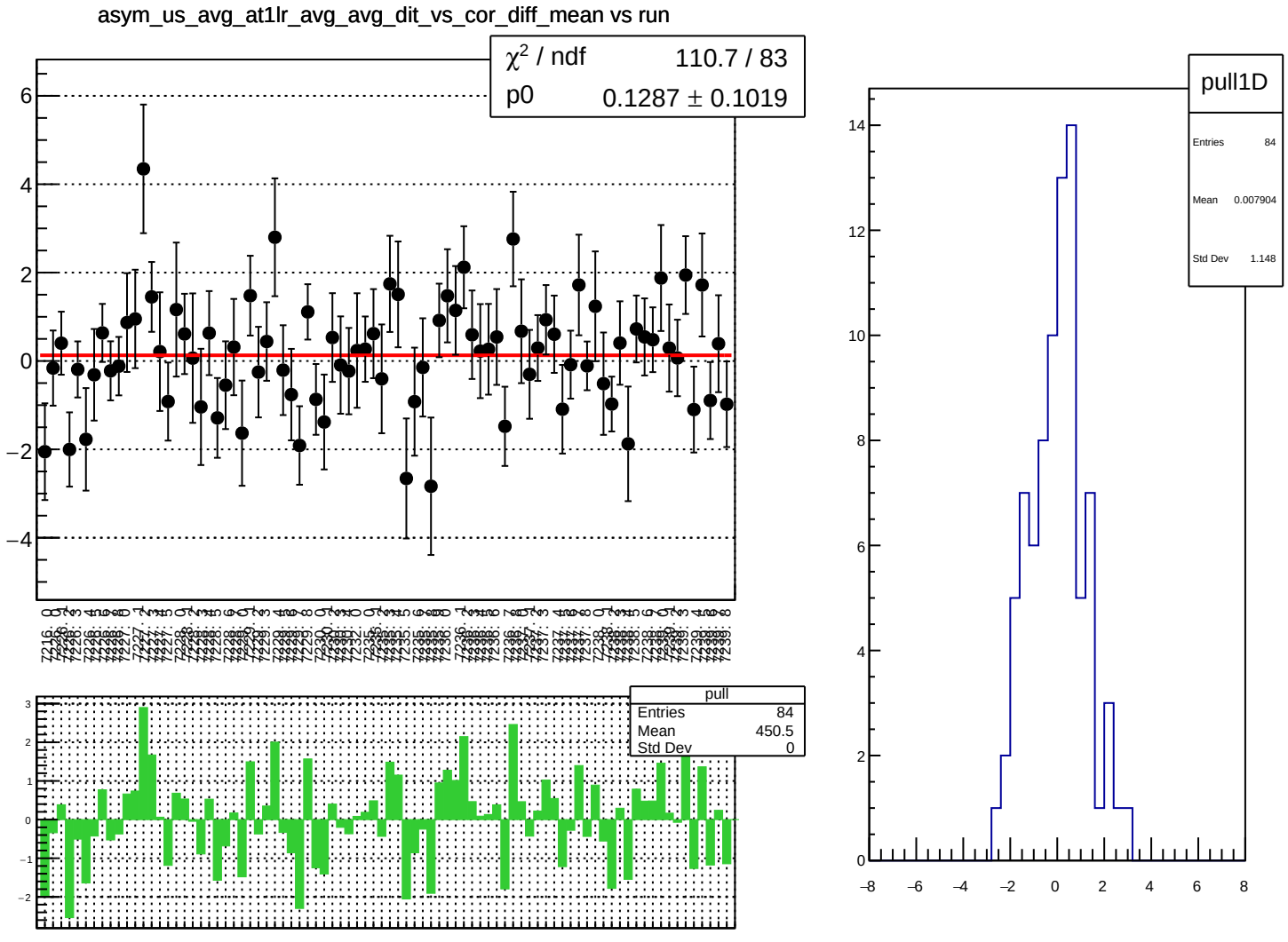

pull1D
Entries 84
Mean 0.001383
Std Dev 1.098

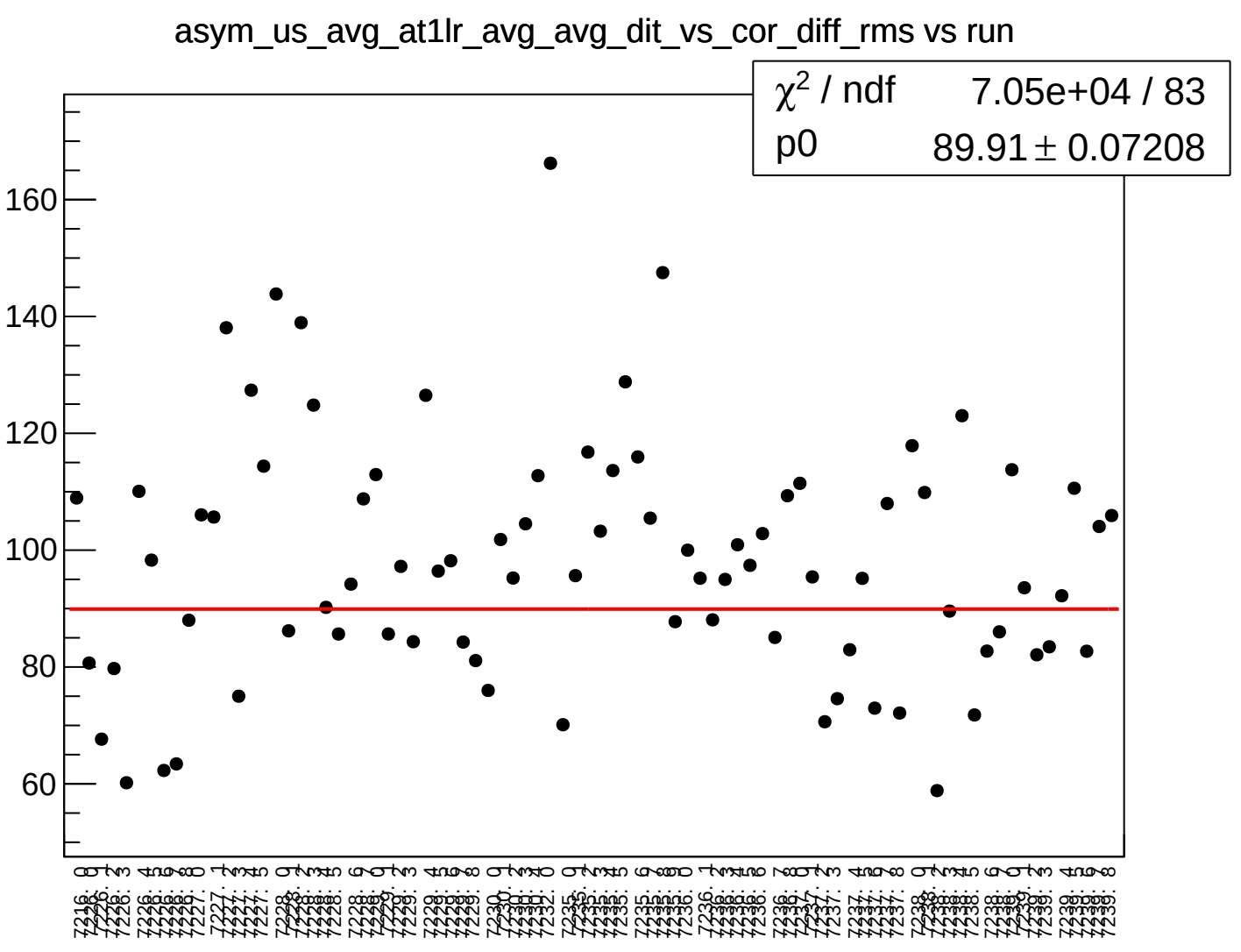

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 1388 / 83
p0 2896 ± 2.272
3100
3000
2900
2800
2700

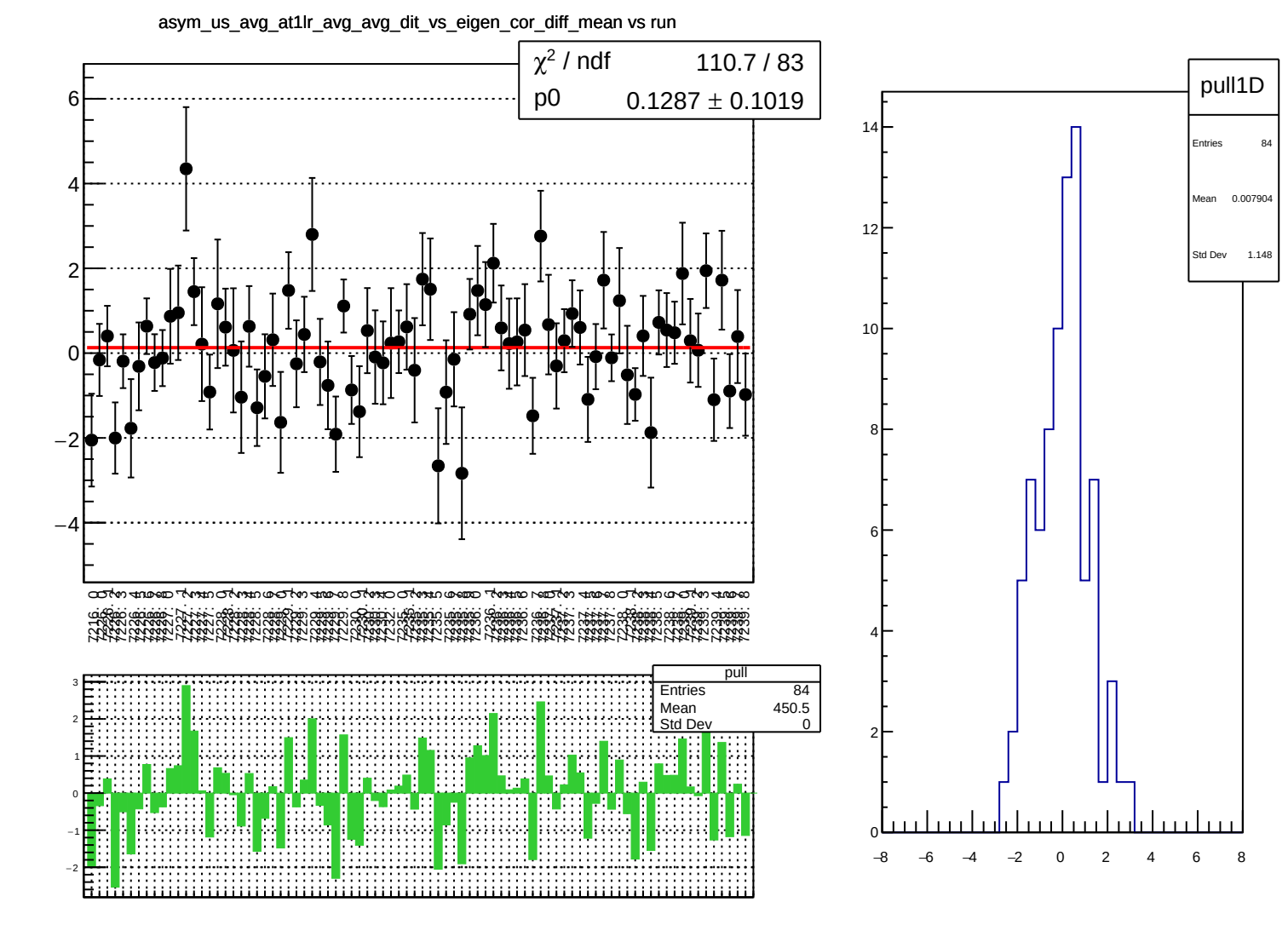

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 81.48 / 83
p0 −8.471e−15 ± 5.401e−14
pull
Entries 84
Mean −105.4
Std Dev 0

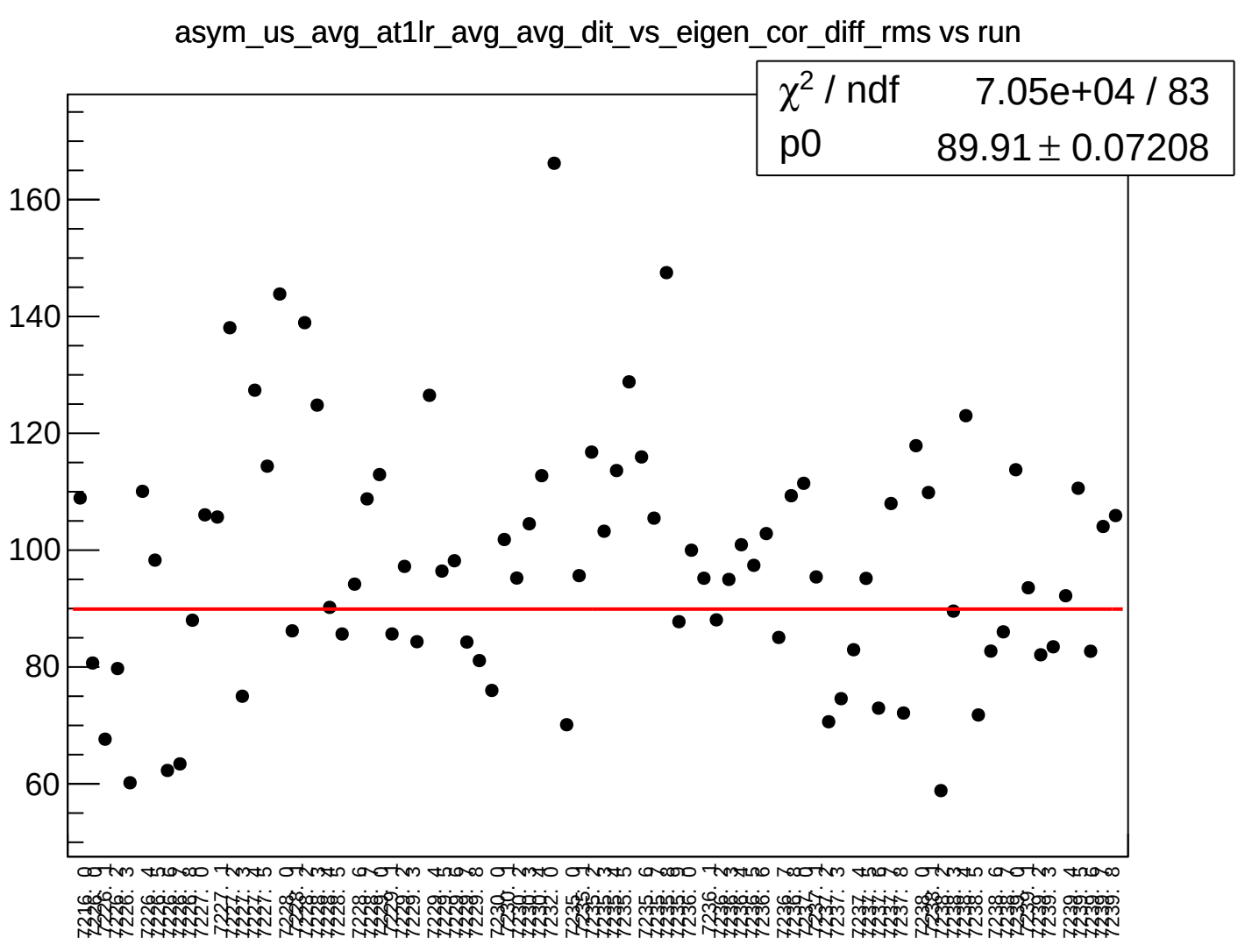

pull1D
Entries 84
Mean −0.03193
Std Dev 0.9844

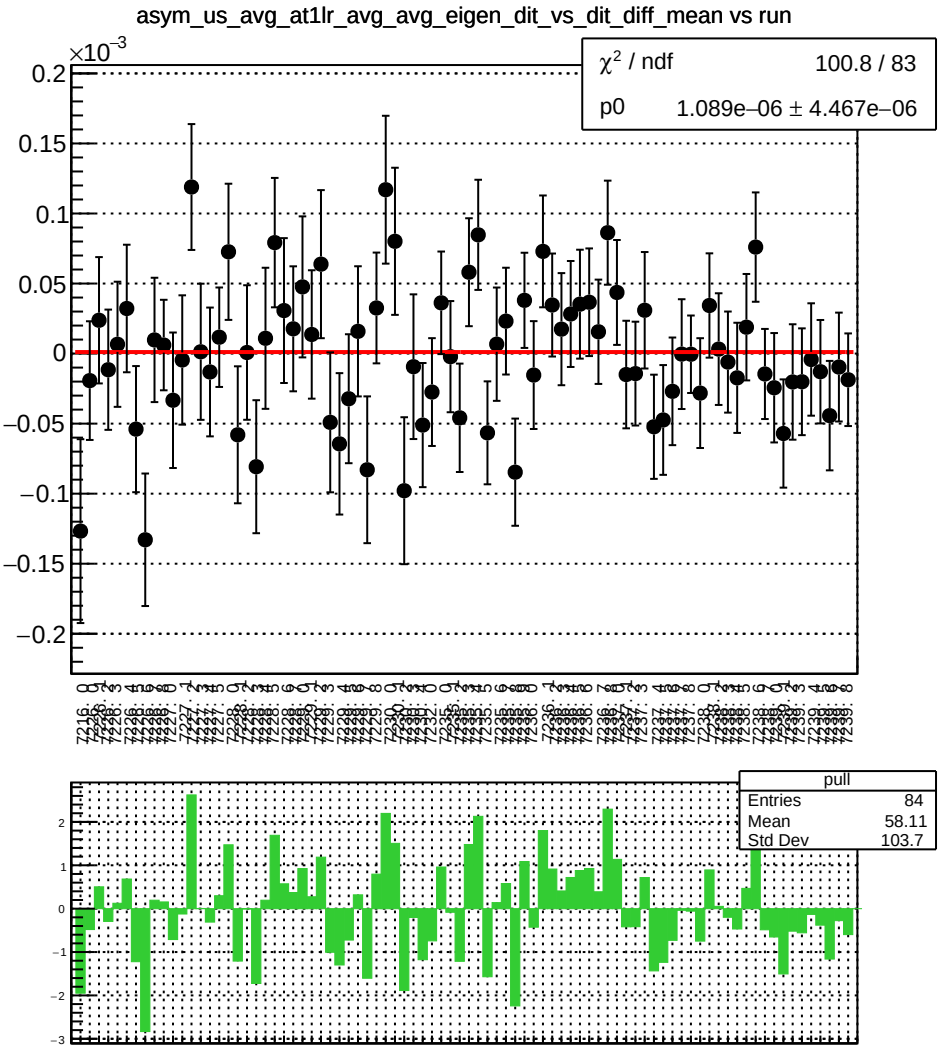

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.164e+06 / 83
p0 2.598e−11 ± 3.819e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

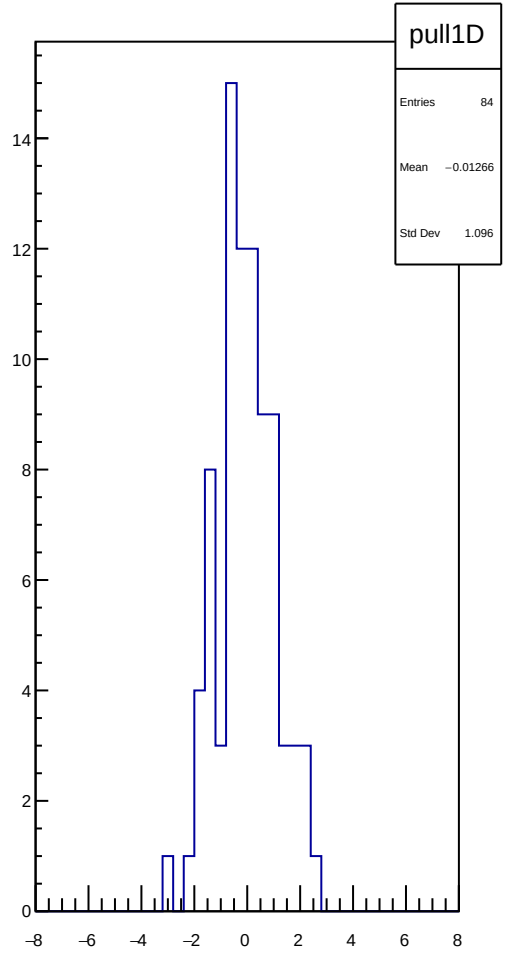

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 110.7 / 83
p0 0.1287 ± 0.1019
pull
Entries 84
Mean 450.5
Std Dev 0
pull1D
Entries 84
Mean 0.007904
Std Dev 1.148

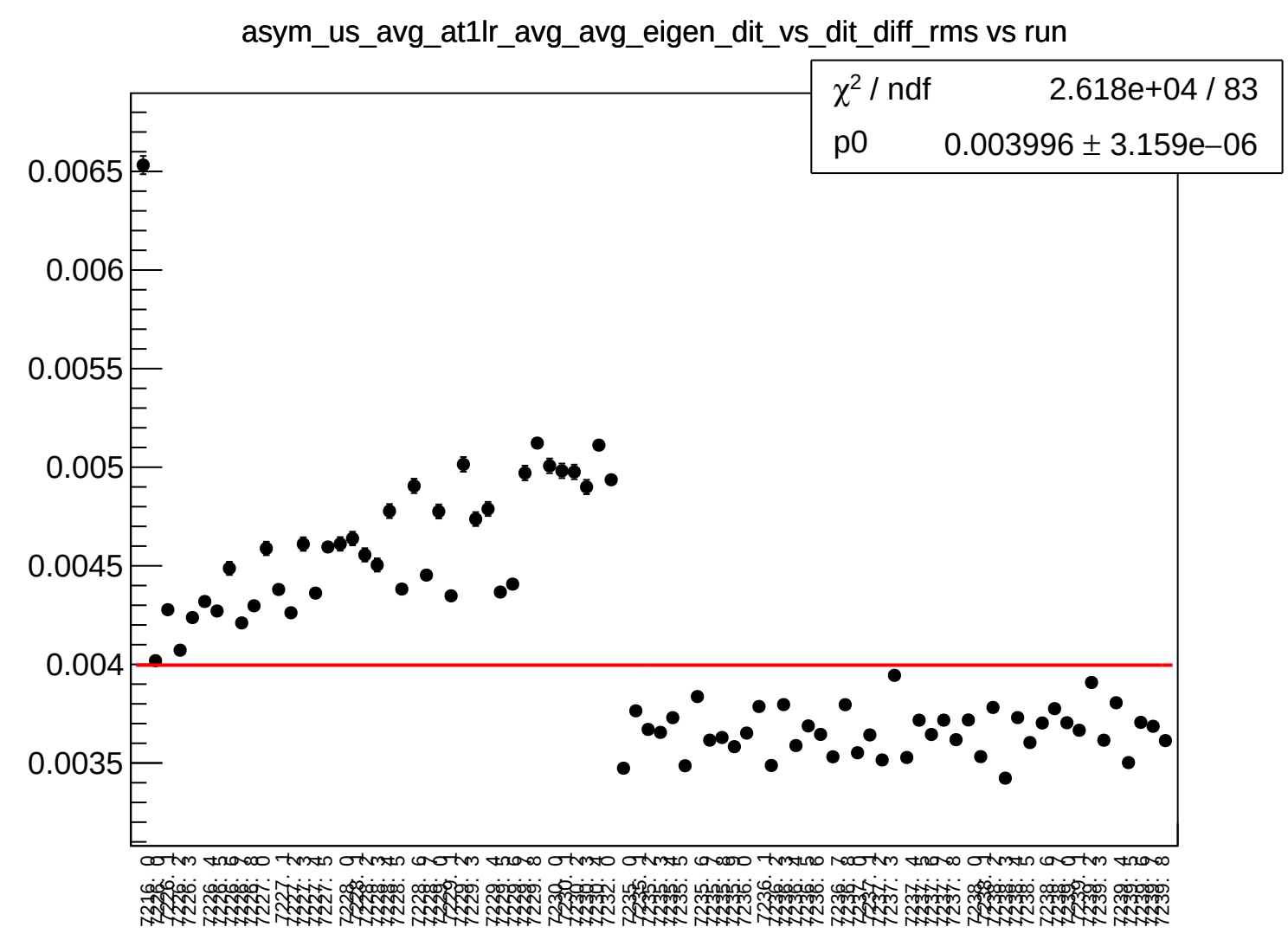

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.05e+04 / 83
p0 89.91 ± 0.07208
160
140
120
100
80
60

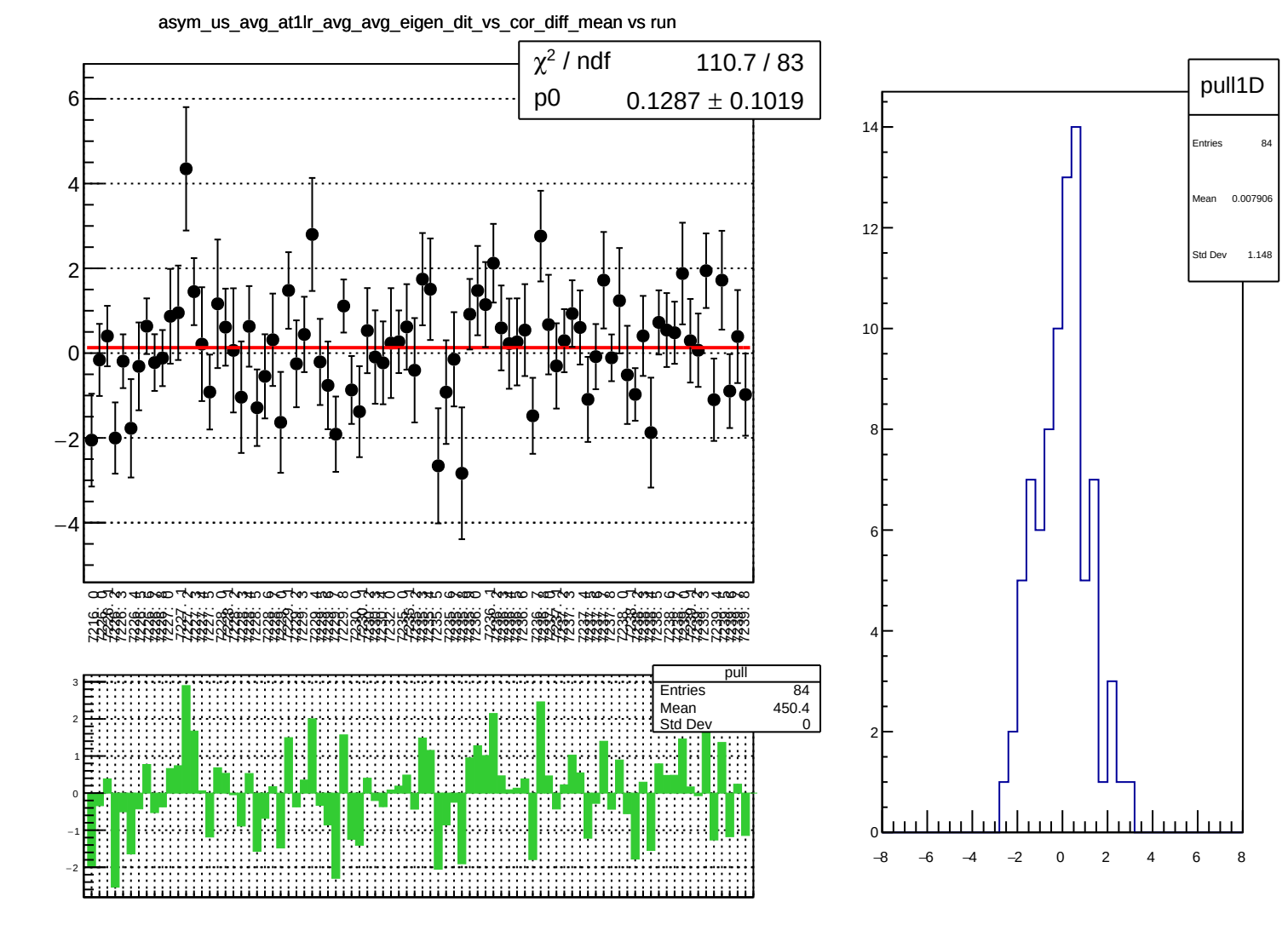

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110.7 / 83
p0 0.1287 ± 0.1019
pull
Entries 84
Mean 450.5
Std Dev 0
pull1D
Entries 84
Mean 0.007904
Std Dev 1.148

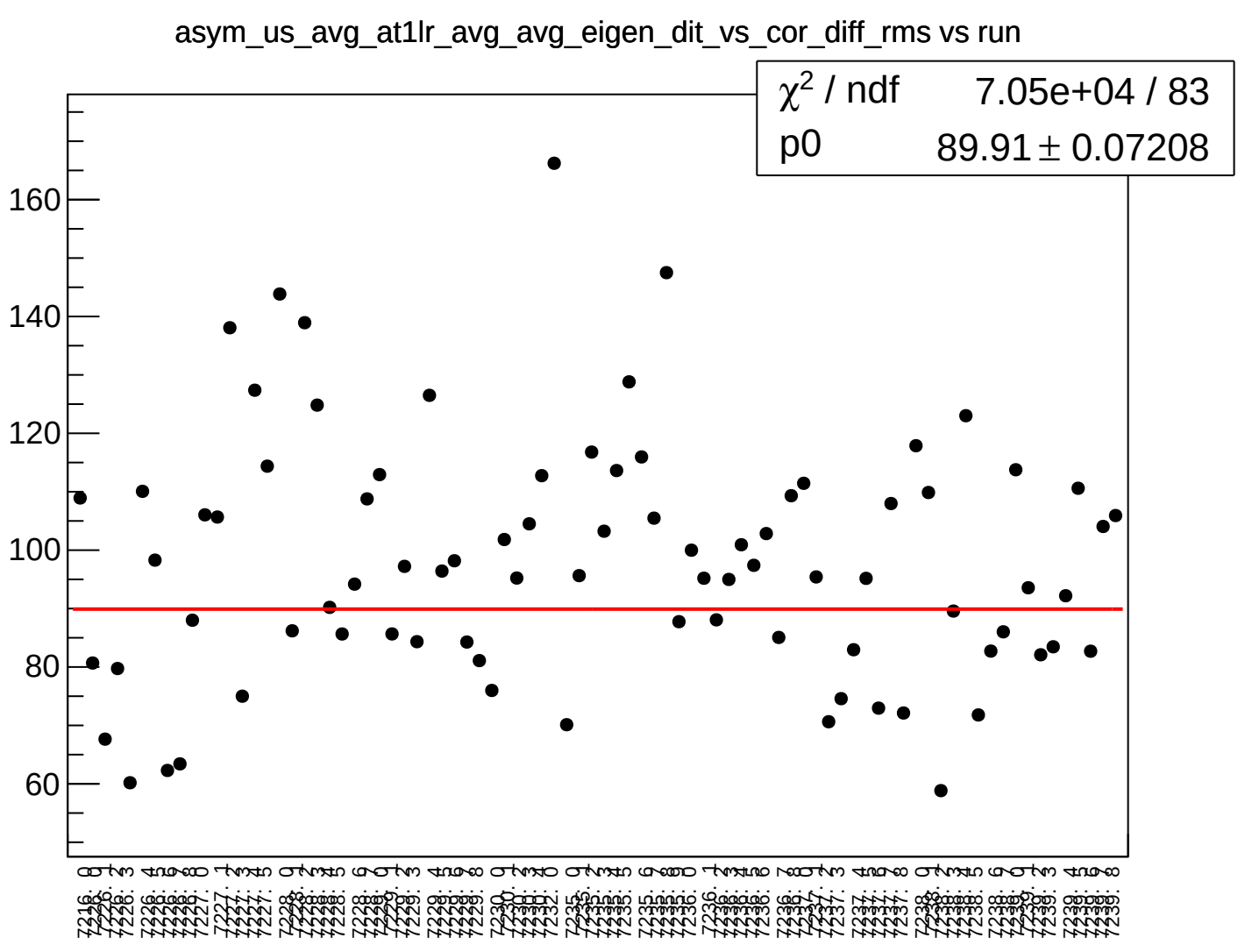

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.05e+04 / 83
p0 89.91 ± 0.07208
160
140
120
100
80
60

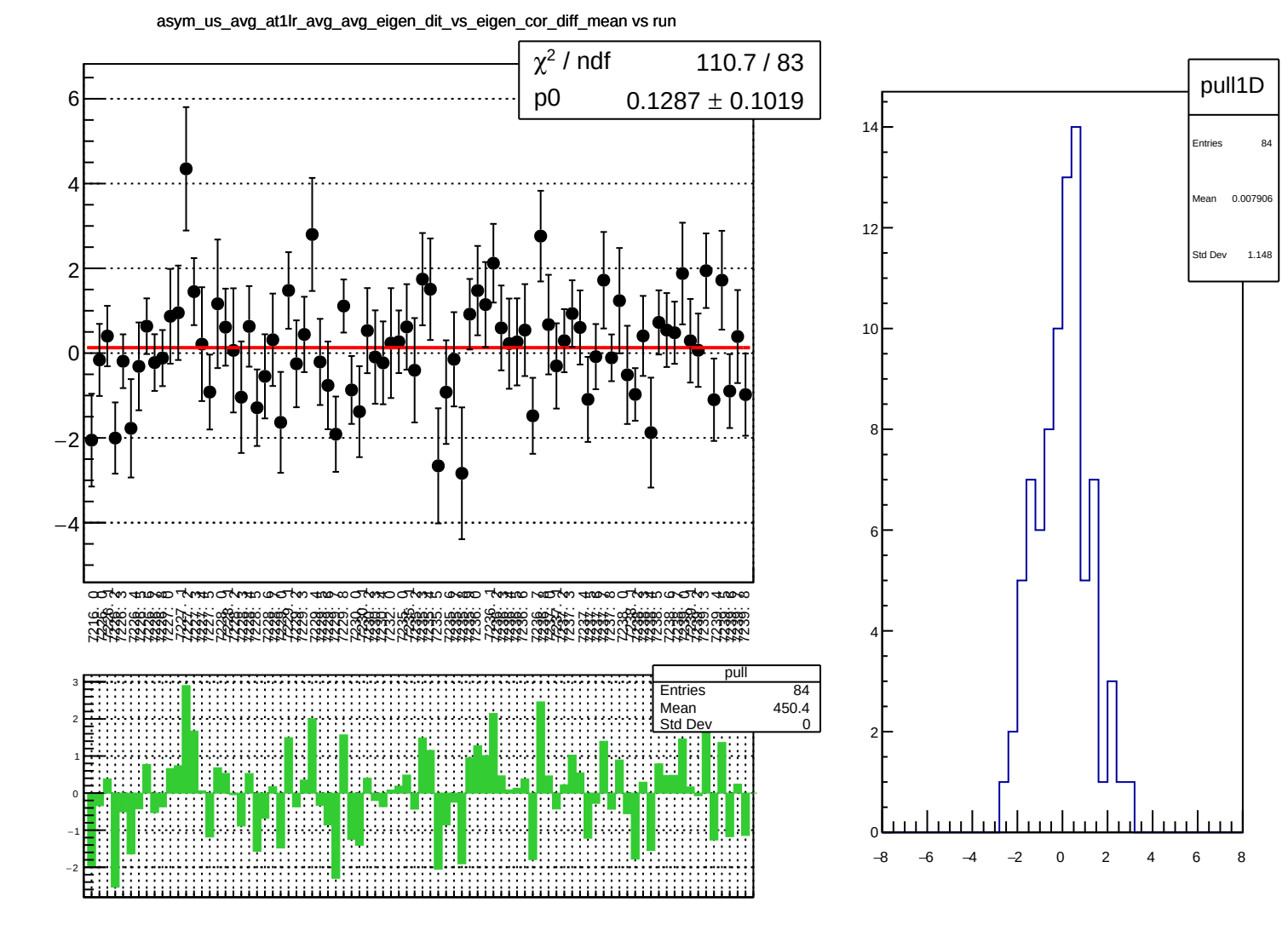

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.8 / 83
p0 1.089e−06 ± 4.467e−06
pull
Entries 84
Mean 58.11
Std Dev 103.7

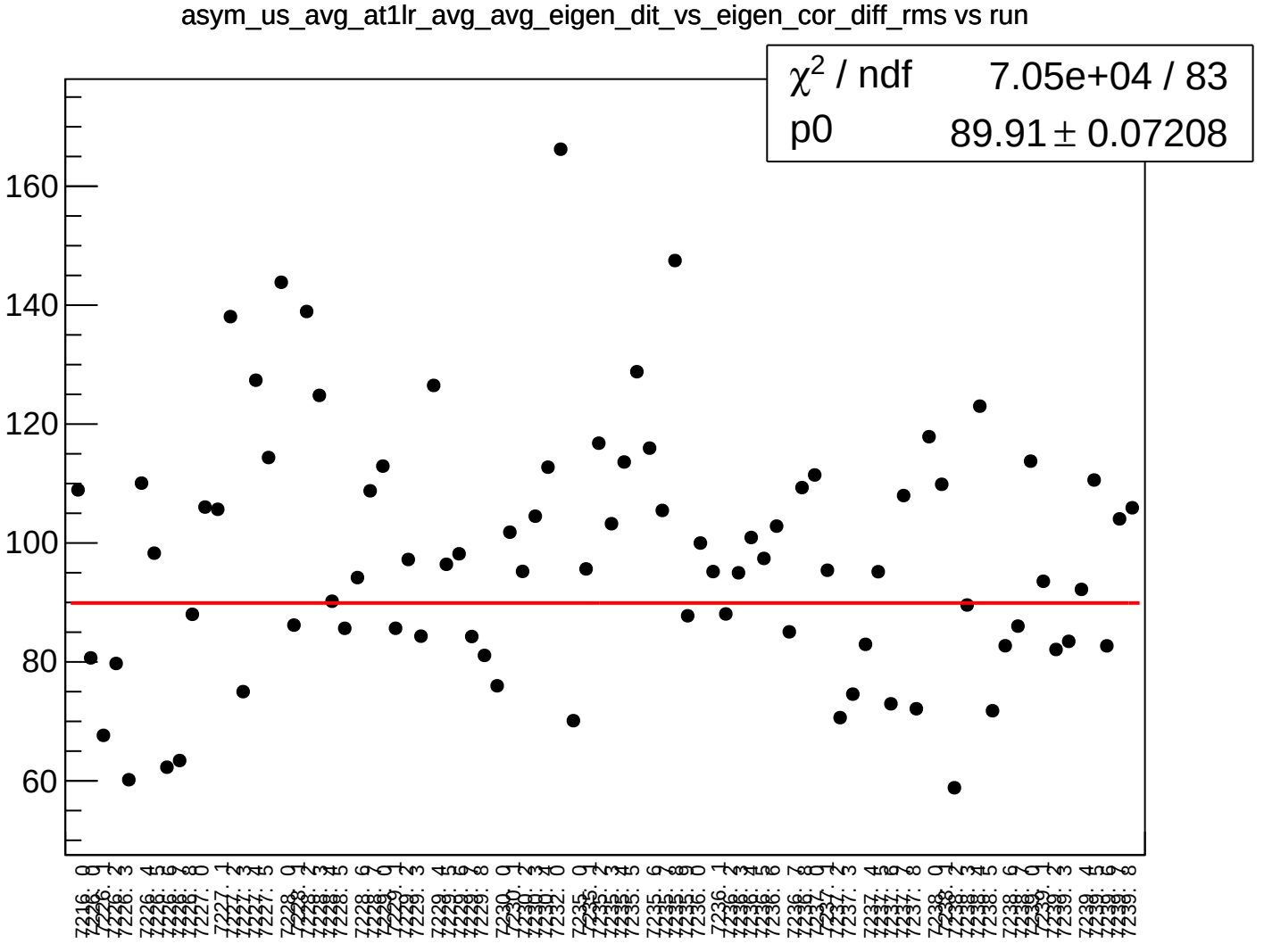

pull1D
Entries 84
Mean −0.01266
Std Dev 1.096

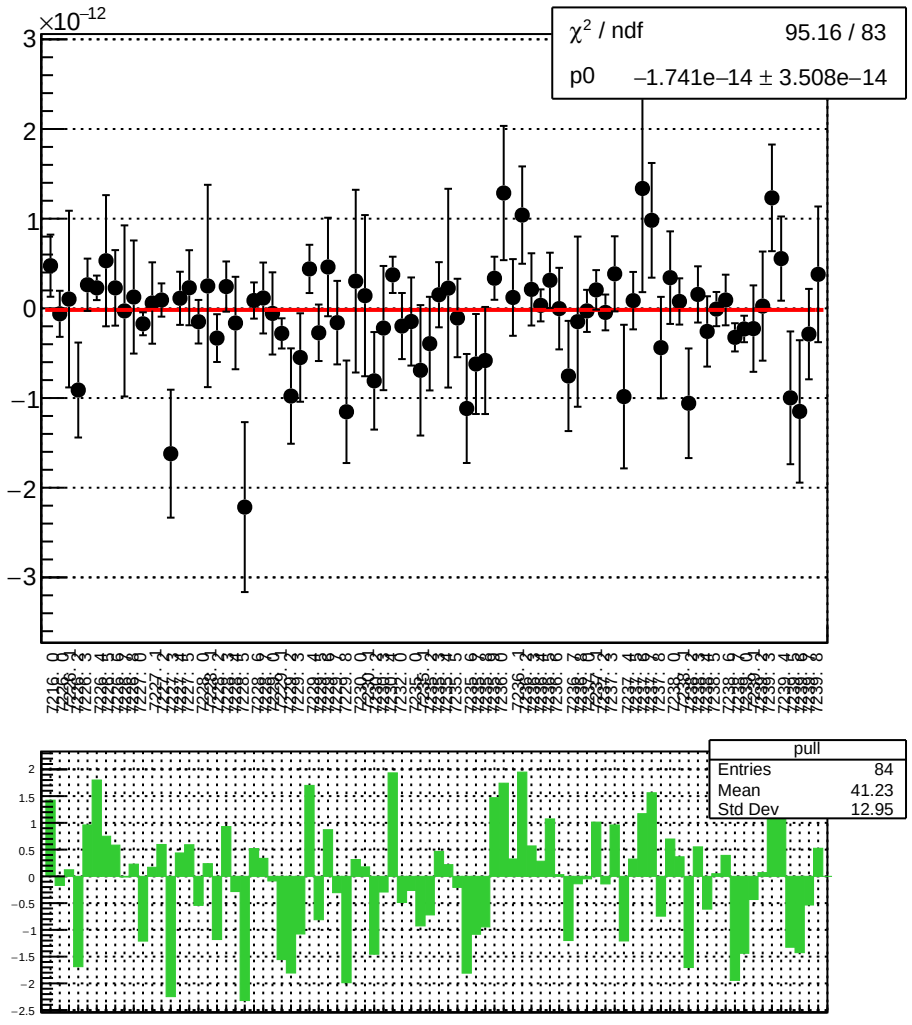

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.618e+04 / 83
p0 0.003996 ± 3.159e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035

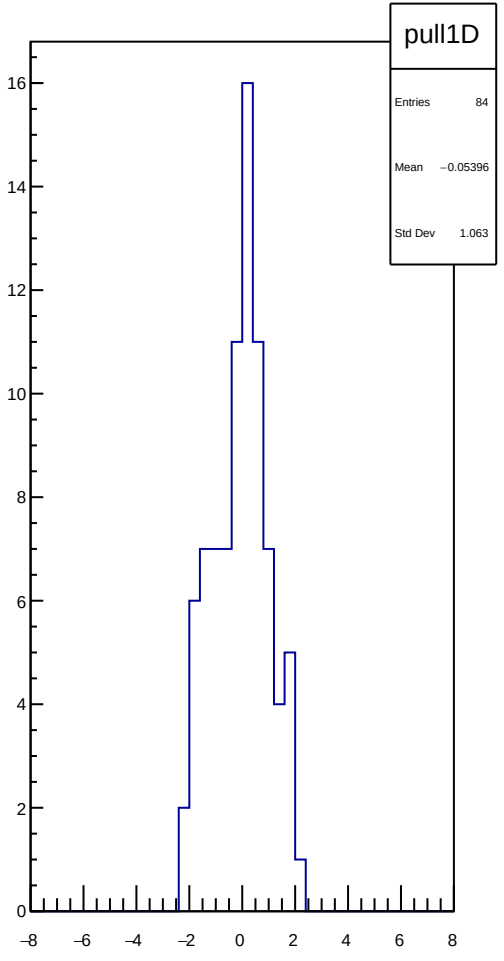

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 110.7 / 83
p0 0.1287 ± 0.1019
pull
Entries 84
Mean 450.4
Std Dev 0
pull1D
Entries 84
Mean 0.007906
Std Dev 1.148

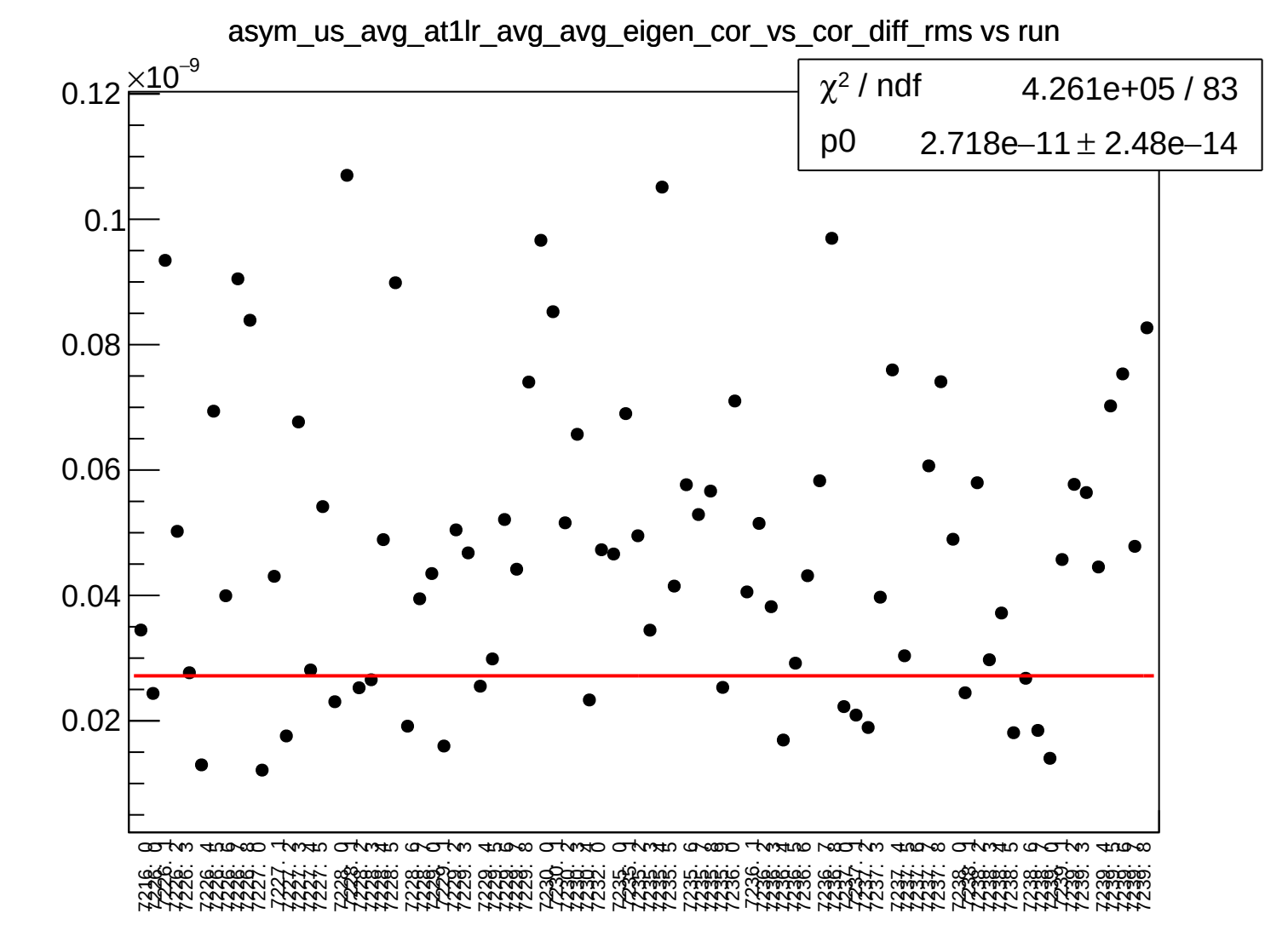

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 7.05e+04 / 83
p0 89.91 ± 0.07208
160
140
120
100
80
60

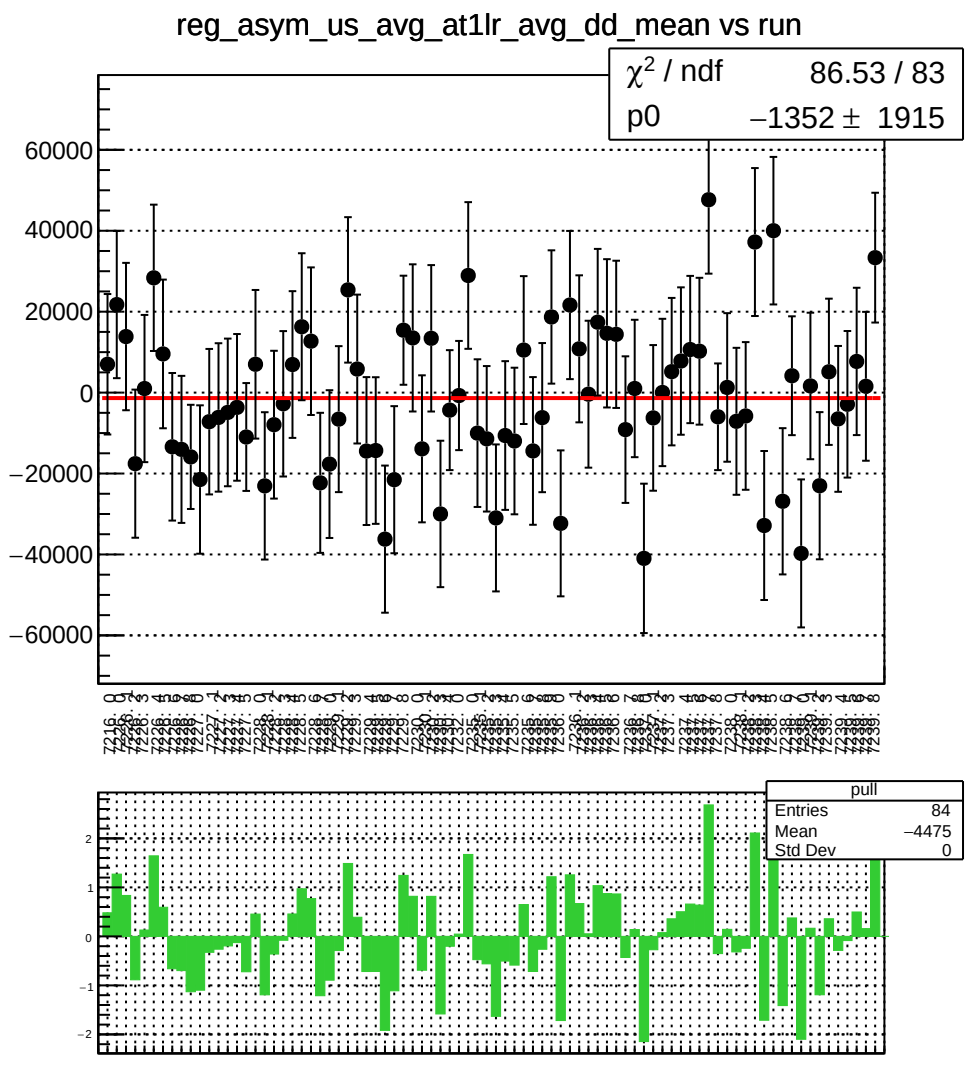

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110.7 / 83
p0 0.1287 ± 0.1019
pull
Entries 84
Mean 450.4
Std Dev 0
pull1D
Entries 84
Mean 0.007906
Std Dev 1.148

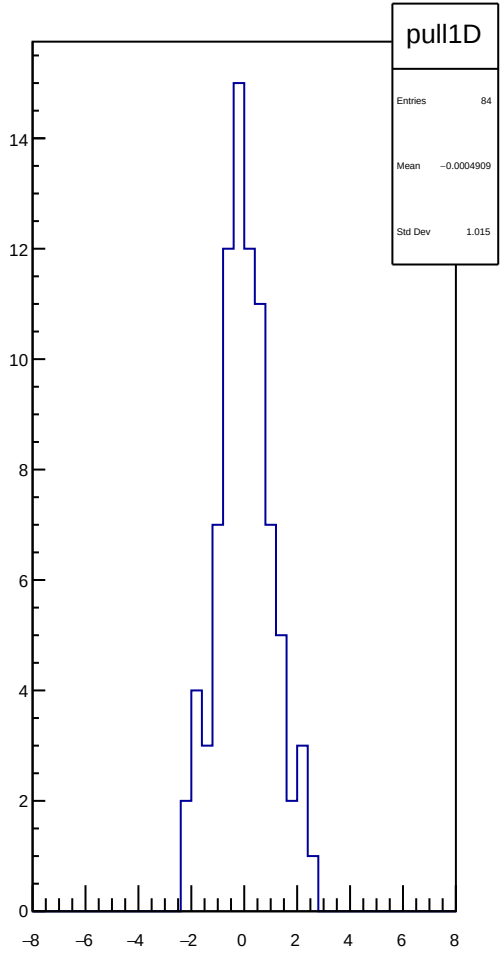

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.05e+04 / 83
p0 89.91 ± 0.07208
160
140
120
100
80
60

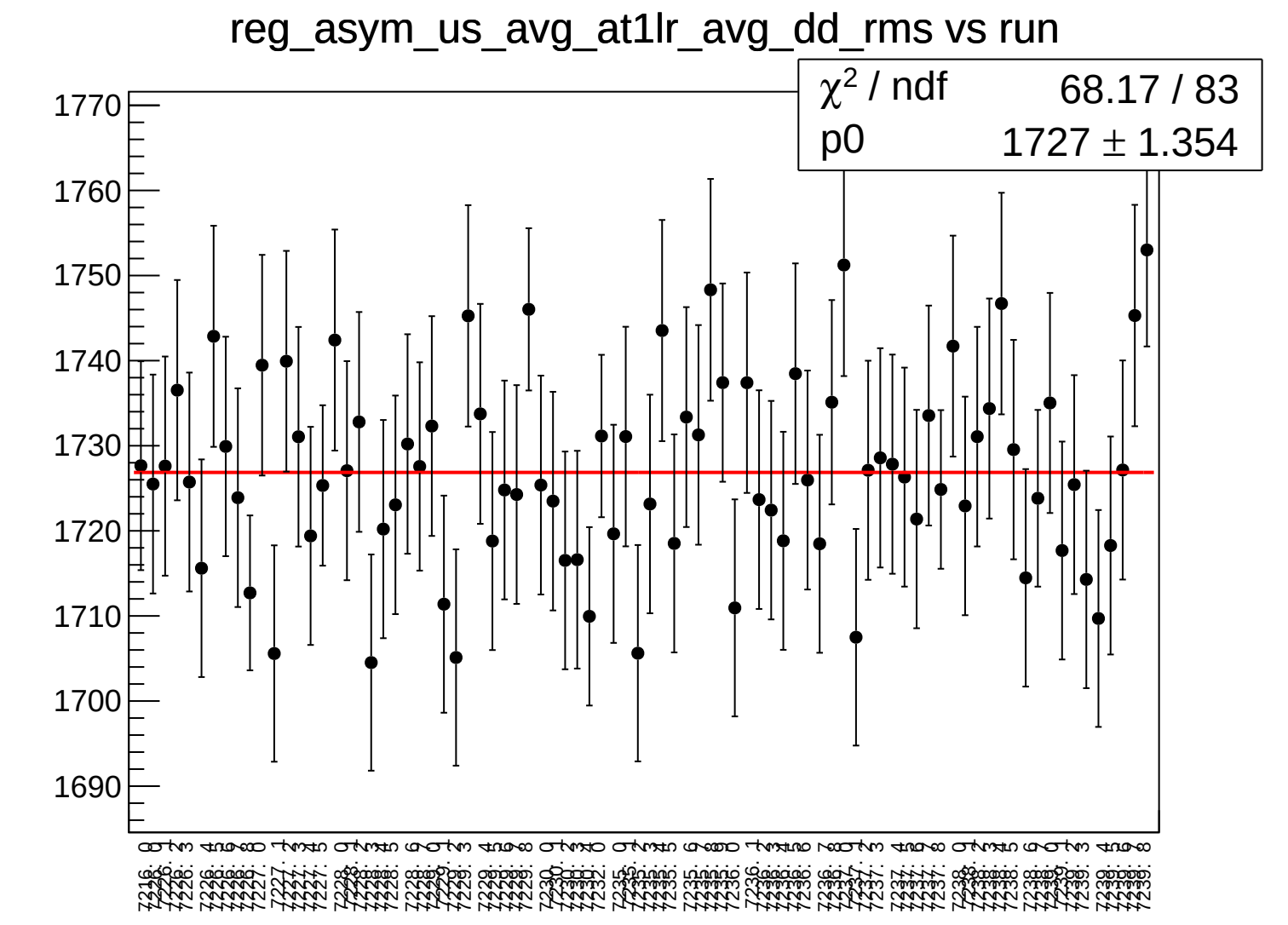

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.16 / 83
p0 −1.741e−14 ± 3.508e−14
pull
Entries 84
Mean 41.23
Std Dev 12.95

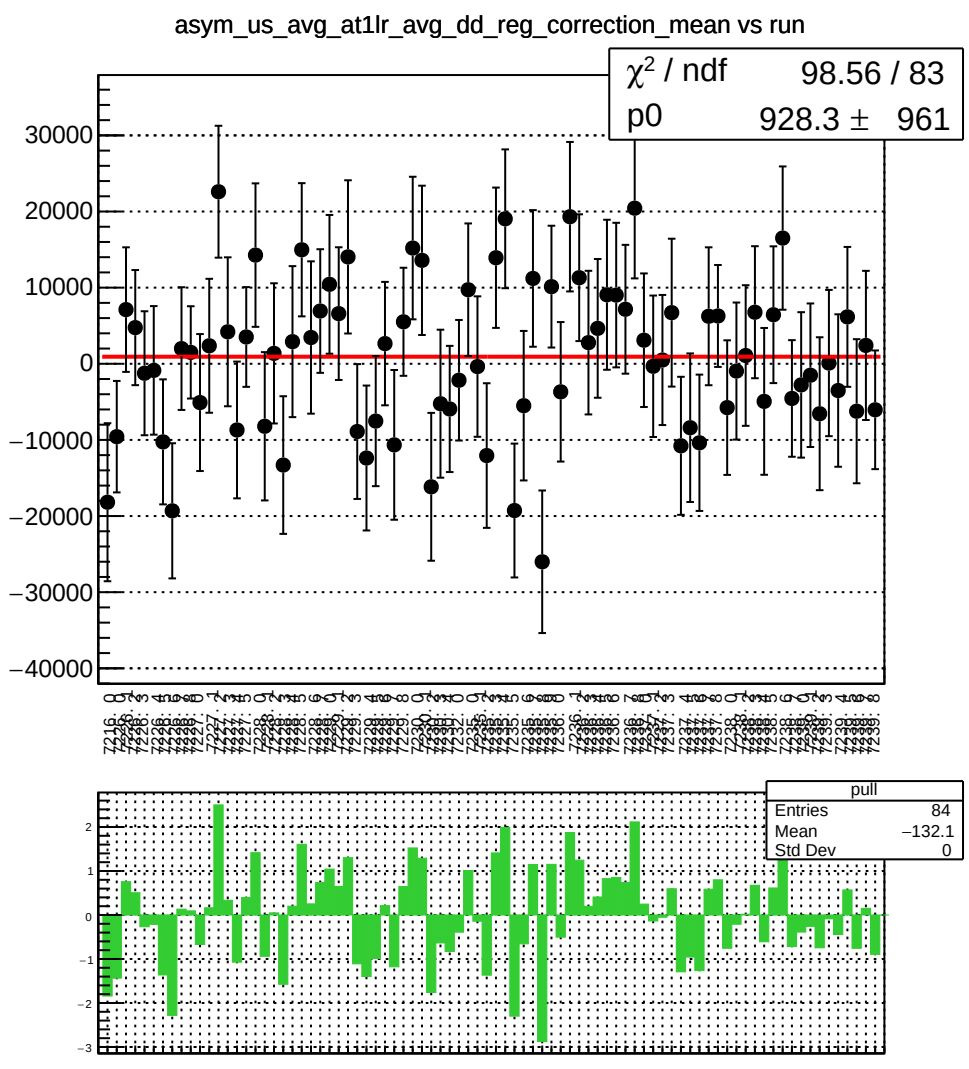

pull1D
Entries 84
Mean −0.05396
Std Dev 1.063

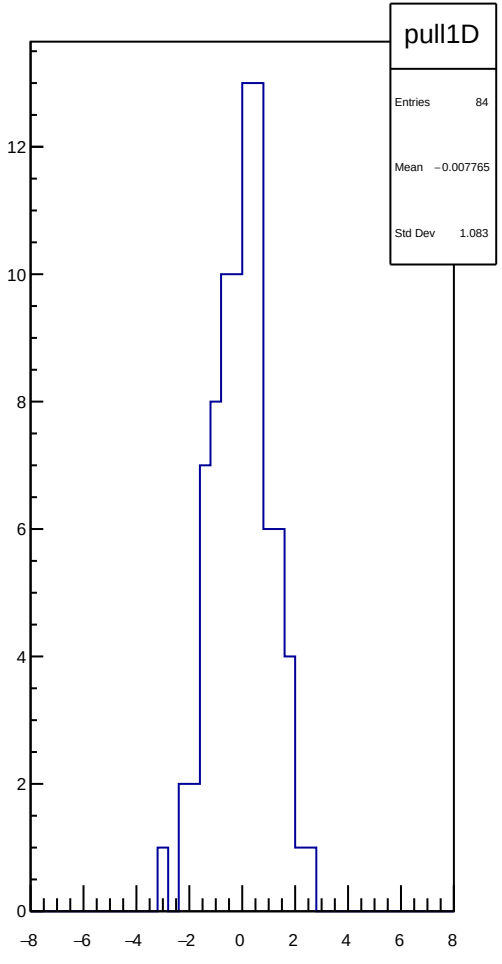

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.12
0.1
0.08
0.06
0.04
0.02
χ² / ndf 4.261e+05 / 83
p0 2.718e−11 ± 2.48e−14

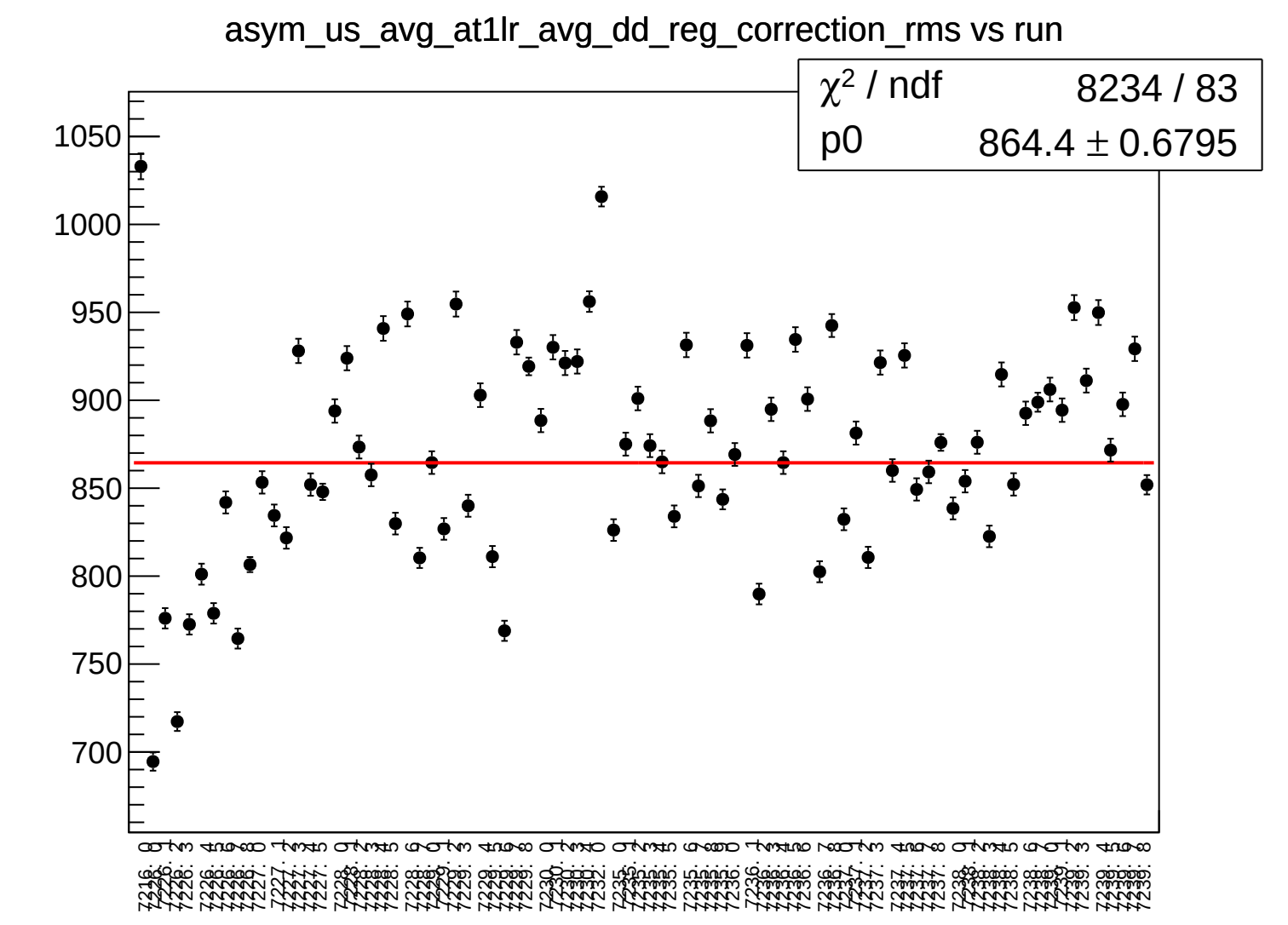

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 86.53 / 83
p0 −1352 ± 1915
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −4475
Std Dev 0
2
1
0
−1
−2

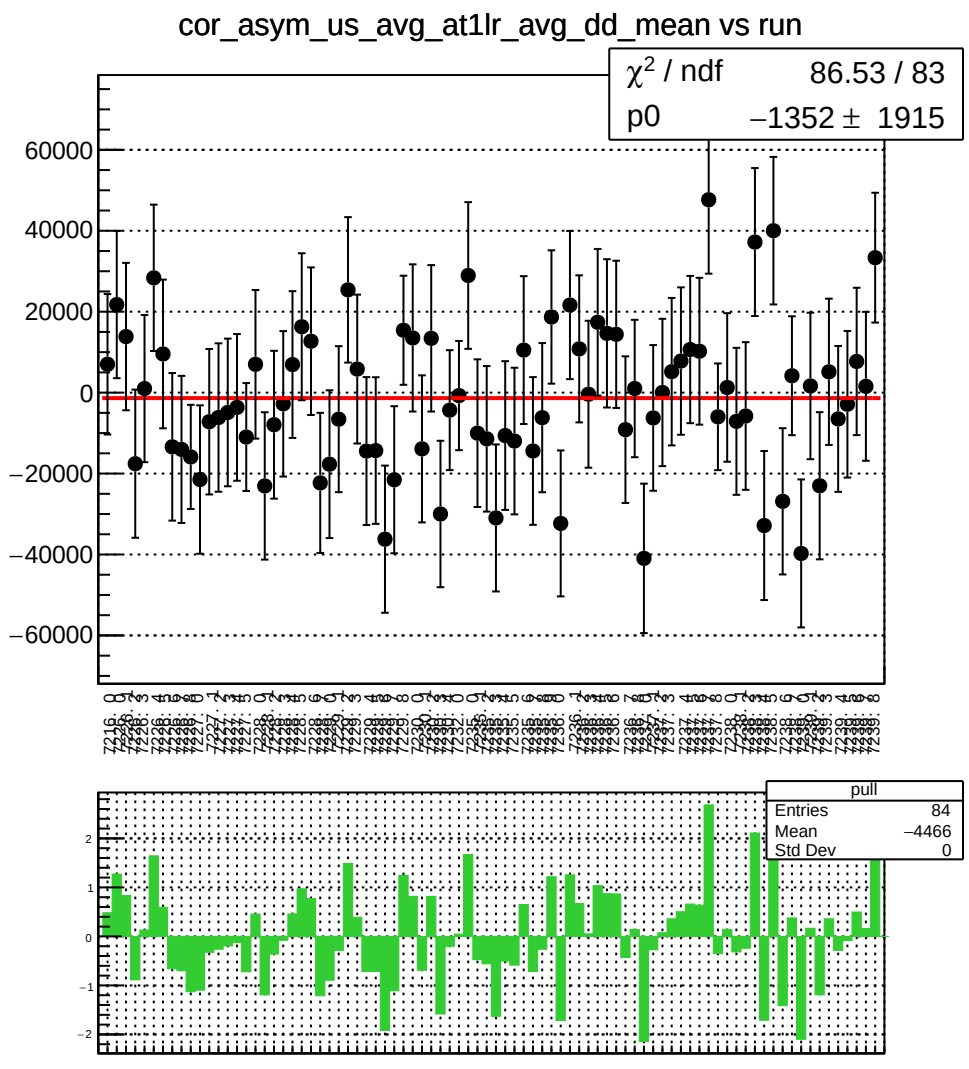

pull1D
Entries 84
Mean −0.0004909
Std Dev 1.015
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

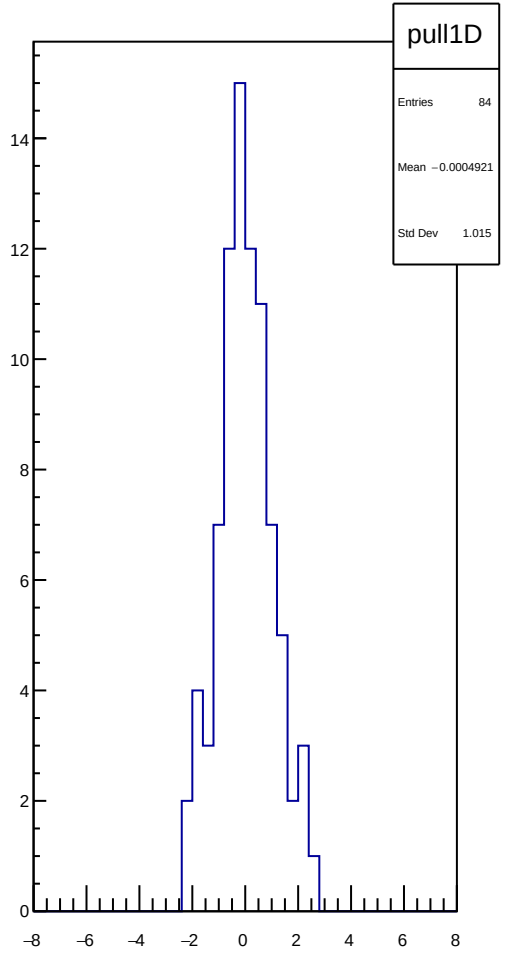

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 68.17 / 83
p0 1727 ± 1.354
1770
1760
1750
1740
1730
1720
1710
1700
1690

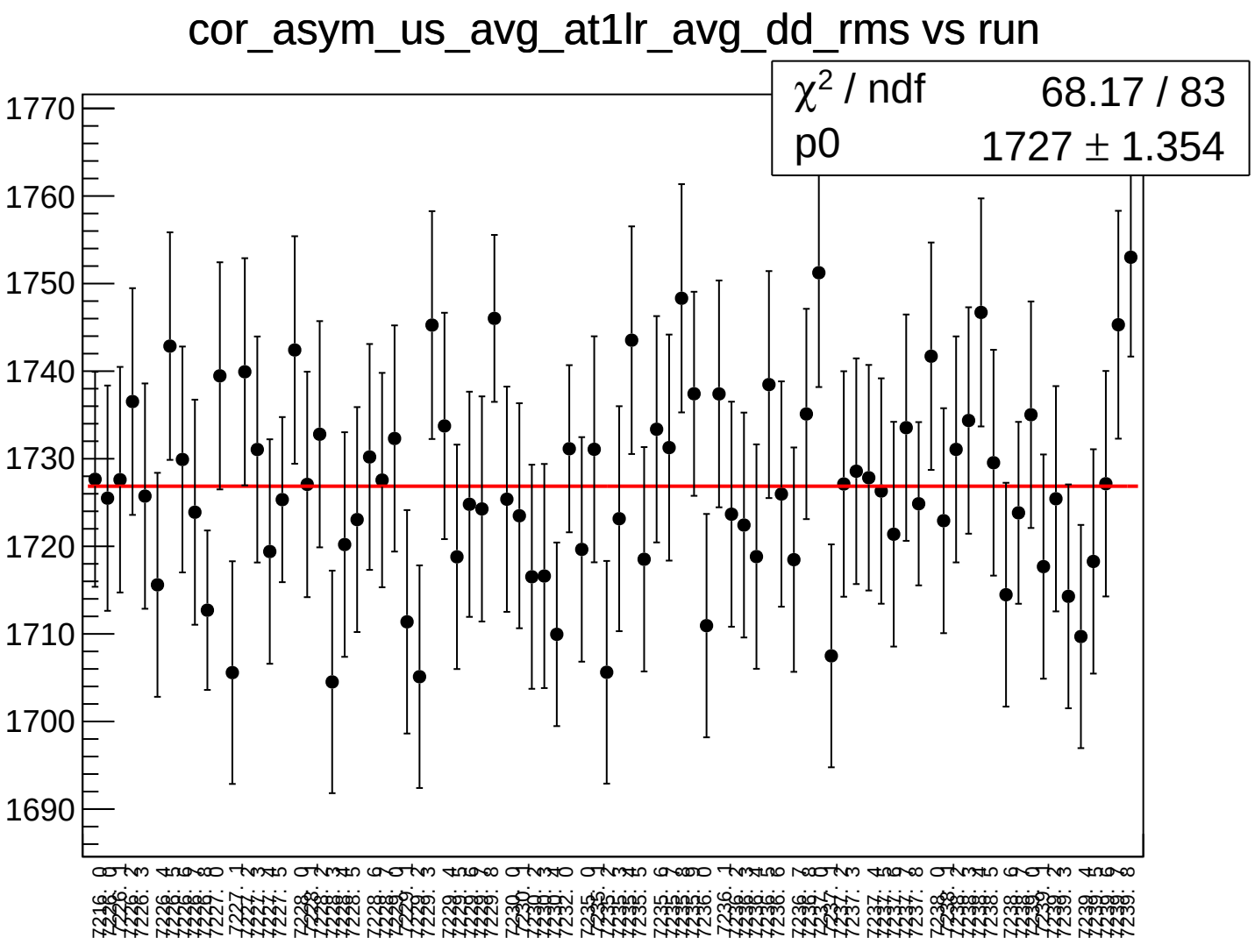

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 98.56 / 83
p0 928.3 ± 961
pull
Entries 84
Mean −132.1
Std Dev 0

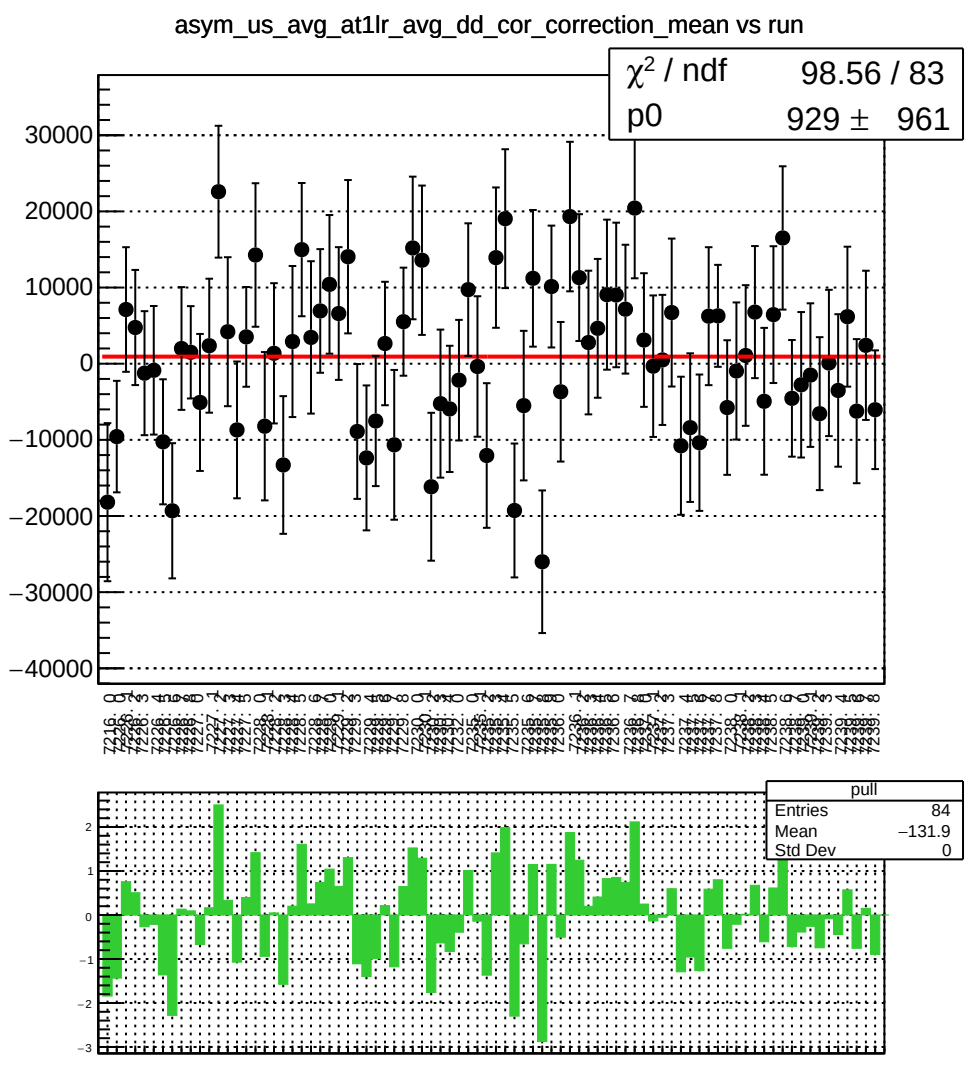

pull1D
Entries 84
Mean −0.007765
Std Dev 1.083

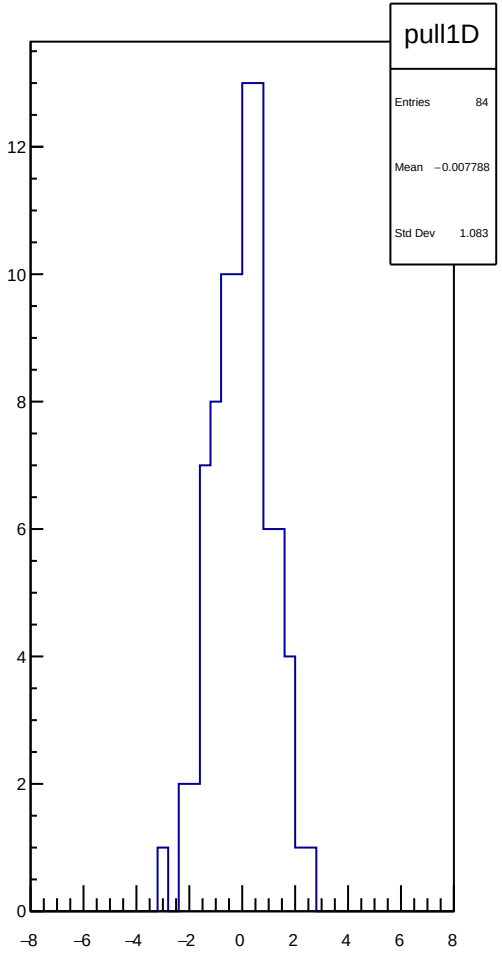

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 8234 / 83
p0 864.4 ± 0.6795
1050
1000
950
900
850
800
750
700

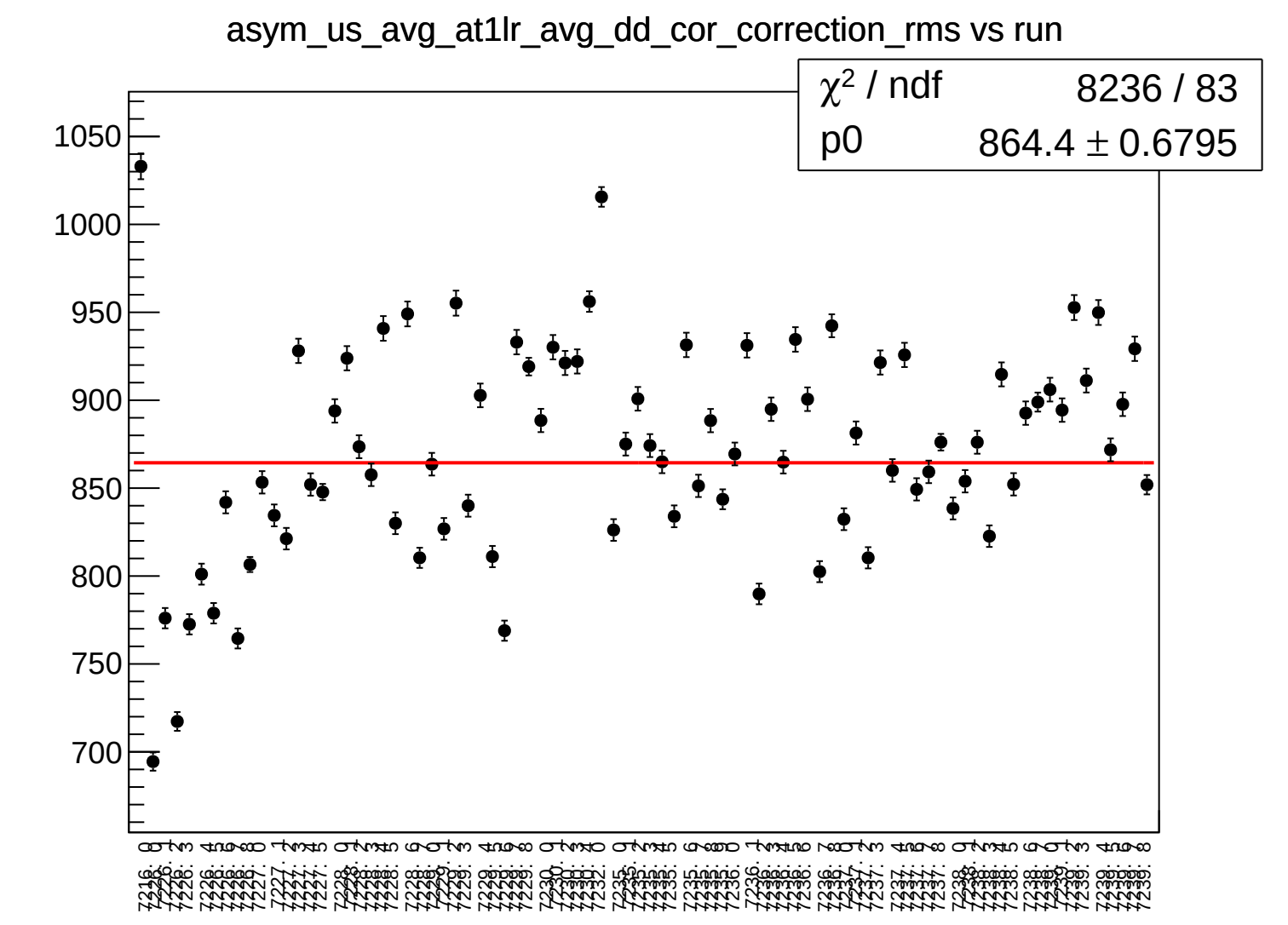

cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 86.53 / 83
p0 −1352 ± 1915
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −4466
Std Dev 0
2
1
0
−1
−2

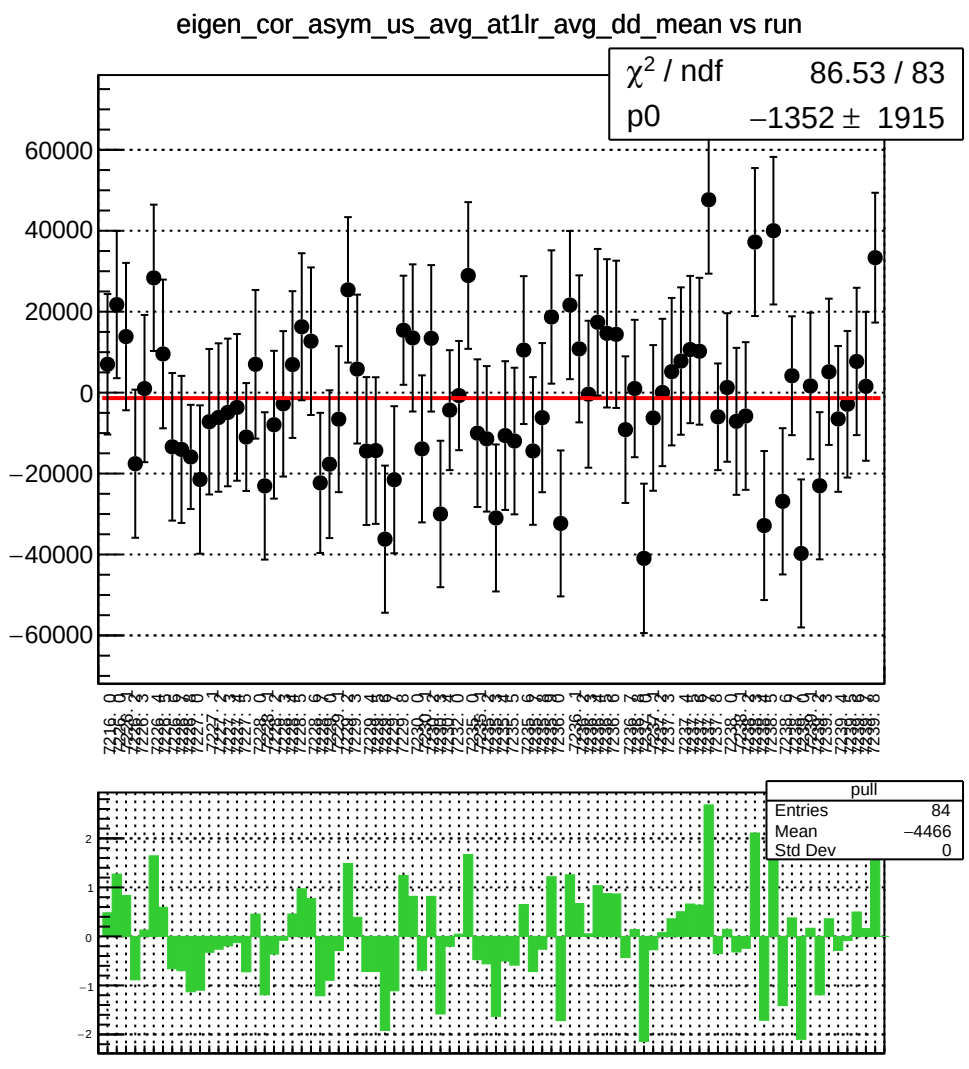

pull1D
Entries 84
Mean −0.0004921
Std Dev 1.015
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

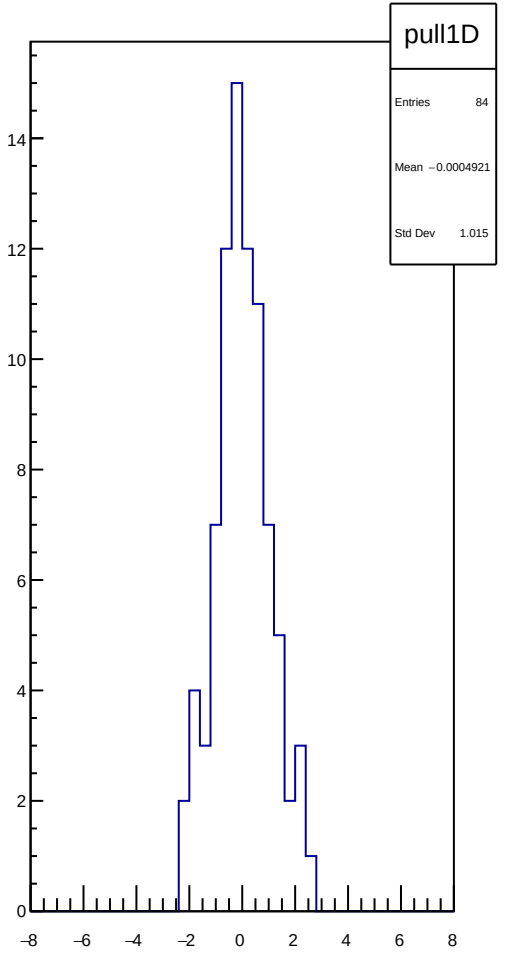

cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 68.17 / 83
p0 1727 ± 1.354
1770
1760
1750
1740
1730
1720
1710
1700
1690

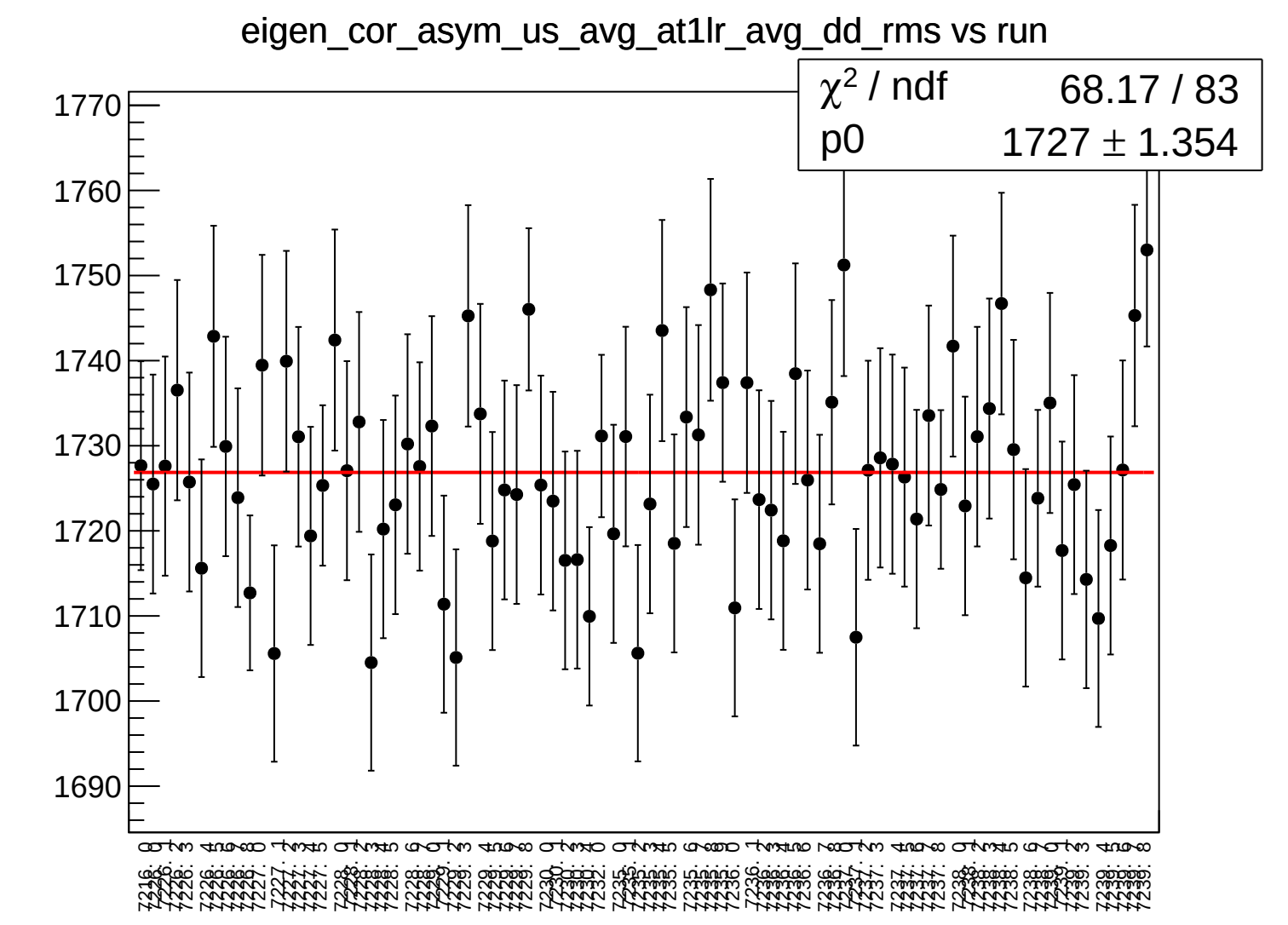

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 98.56 / 83
p0 929 ± 961
pull
Entries 84
Mean −131.9
Std Dev 0

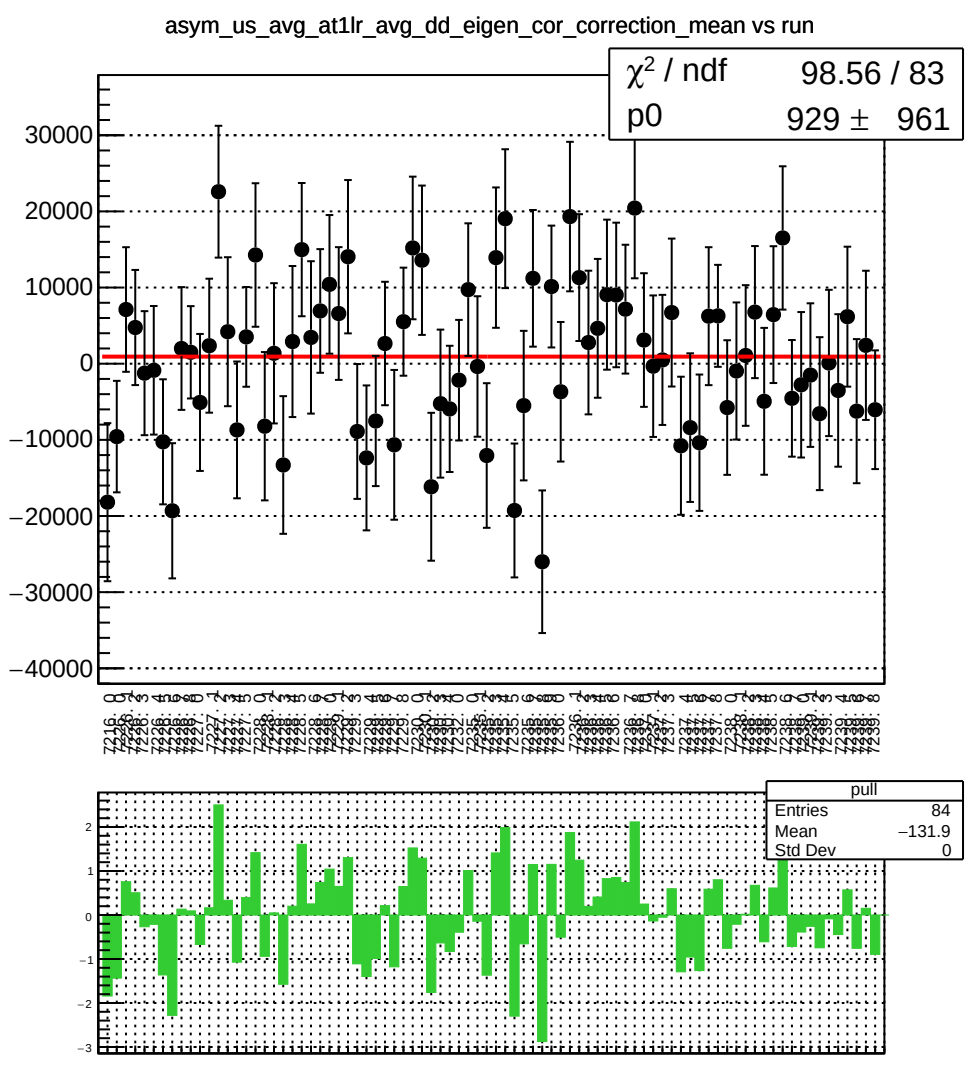

pull1D
Entries 84
Mean −0.007788
Std Dev 1.083

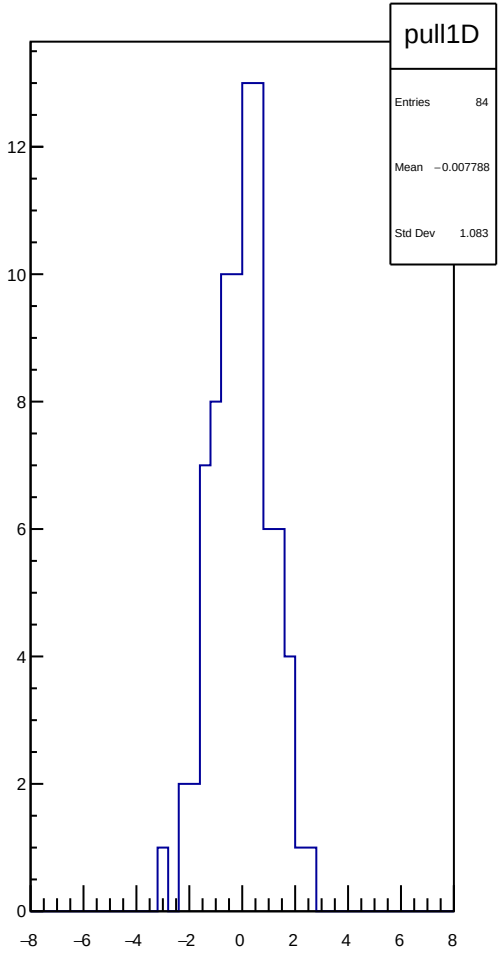

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ² / ndf 8236 / 83
p0 864.4 ± 0.6795
1050
1000
950
900
850
800
750
700

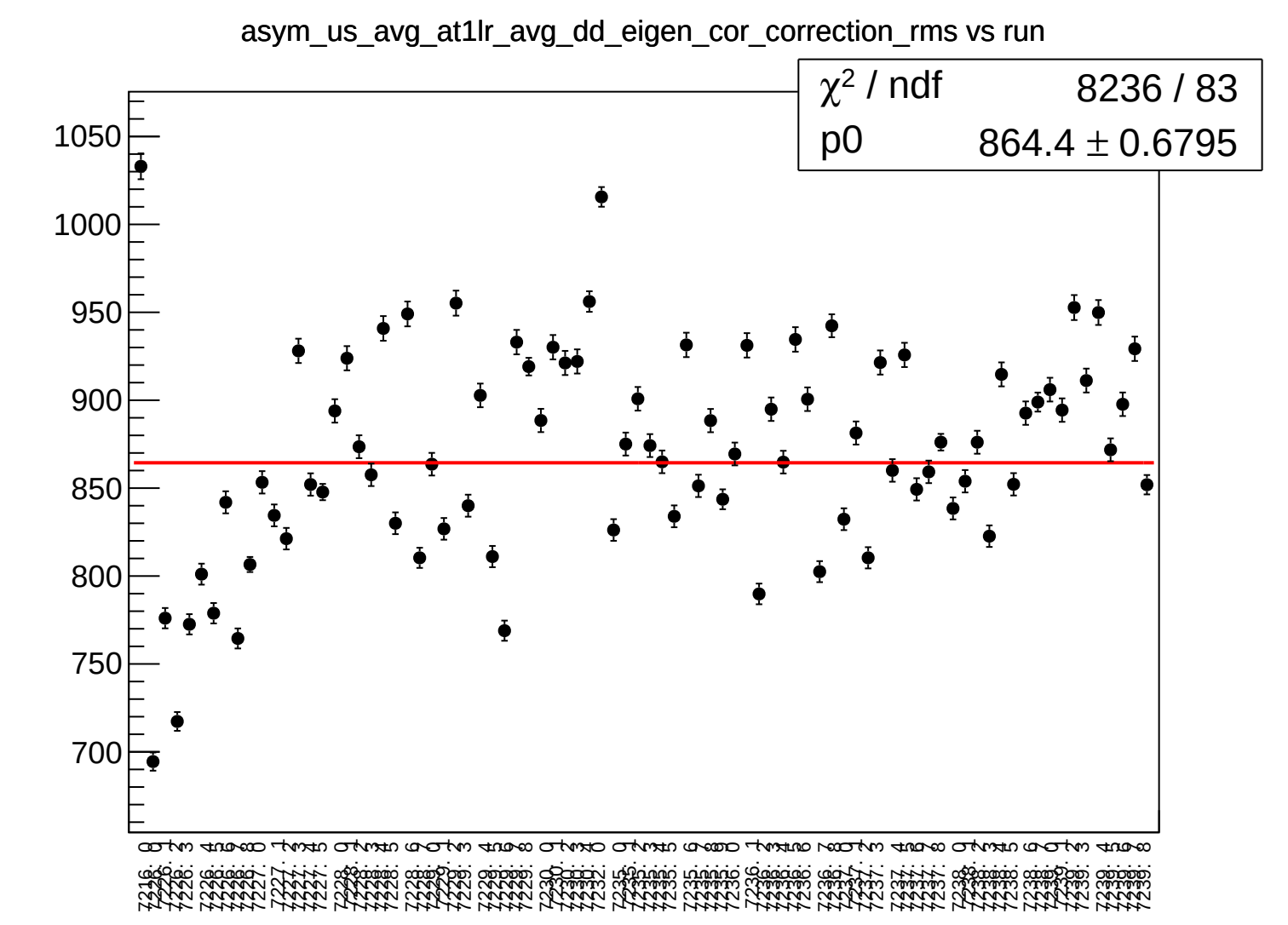

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 86.53 / 83
p0 −1352 ± 1915
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −4466
Std Dev 0
2
1
0
−1
−2

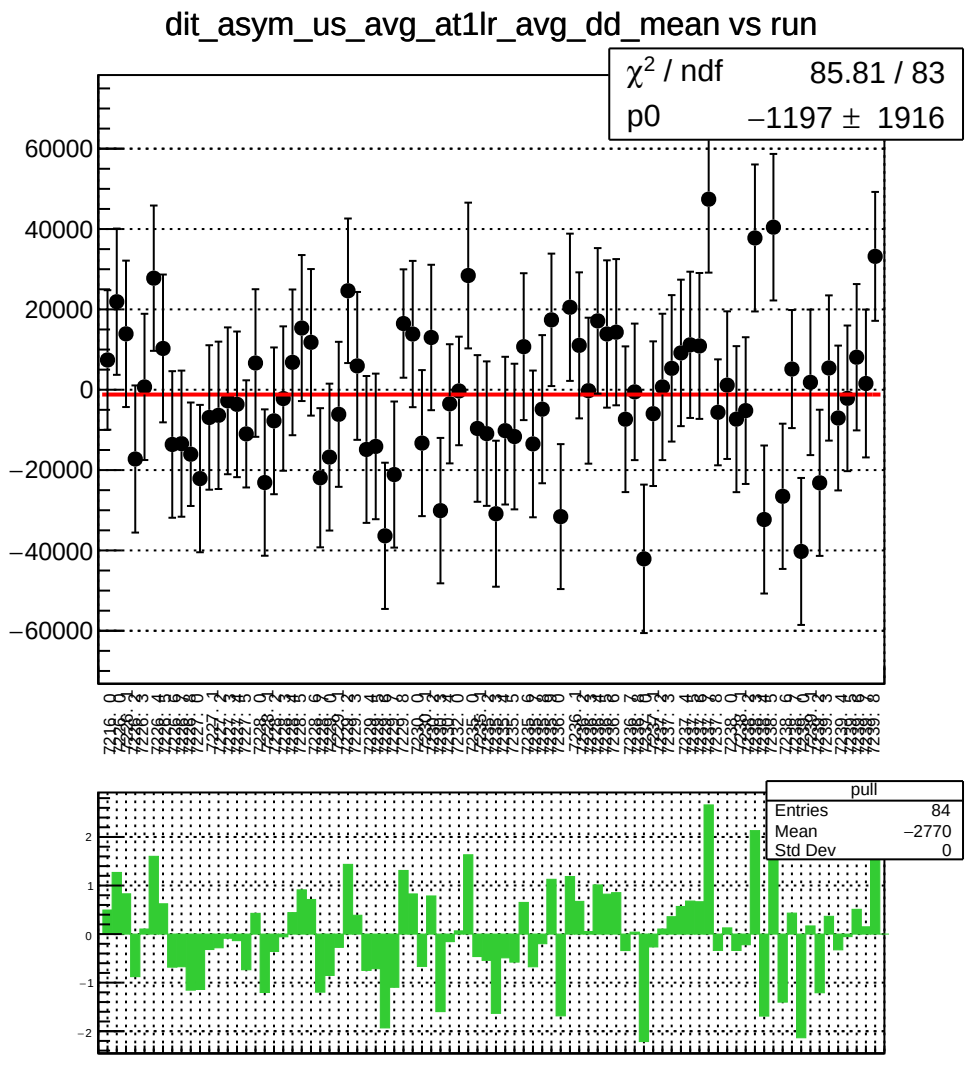

pull1D
Entries 84
Mean −0.0004921
Std Dev 1.015
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

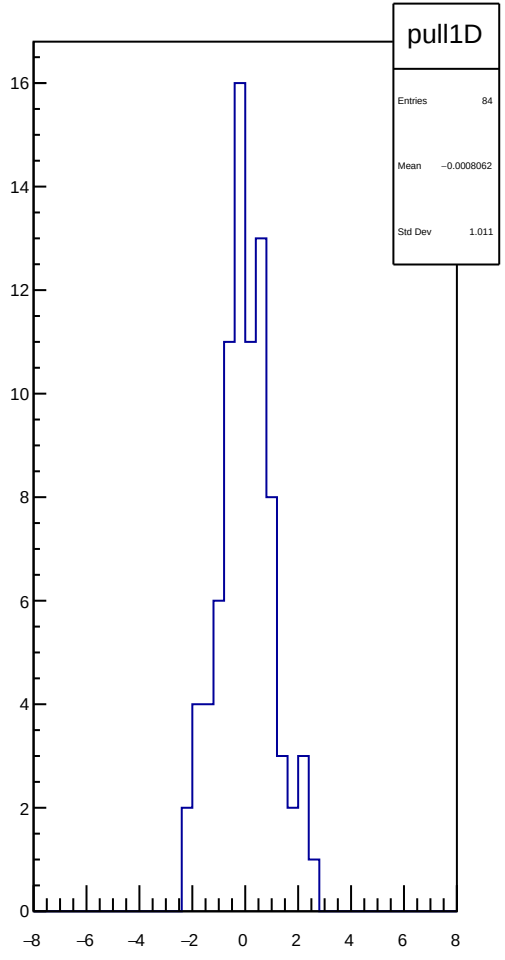

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 68.17 / 83
p0 1727 ± 1.354
1770
1760
1750
1740
1730
1720
1710
1700
1690

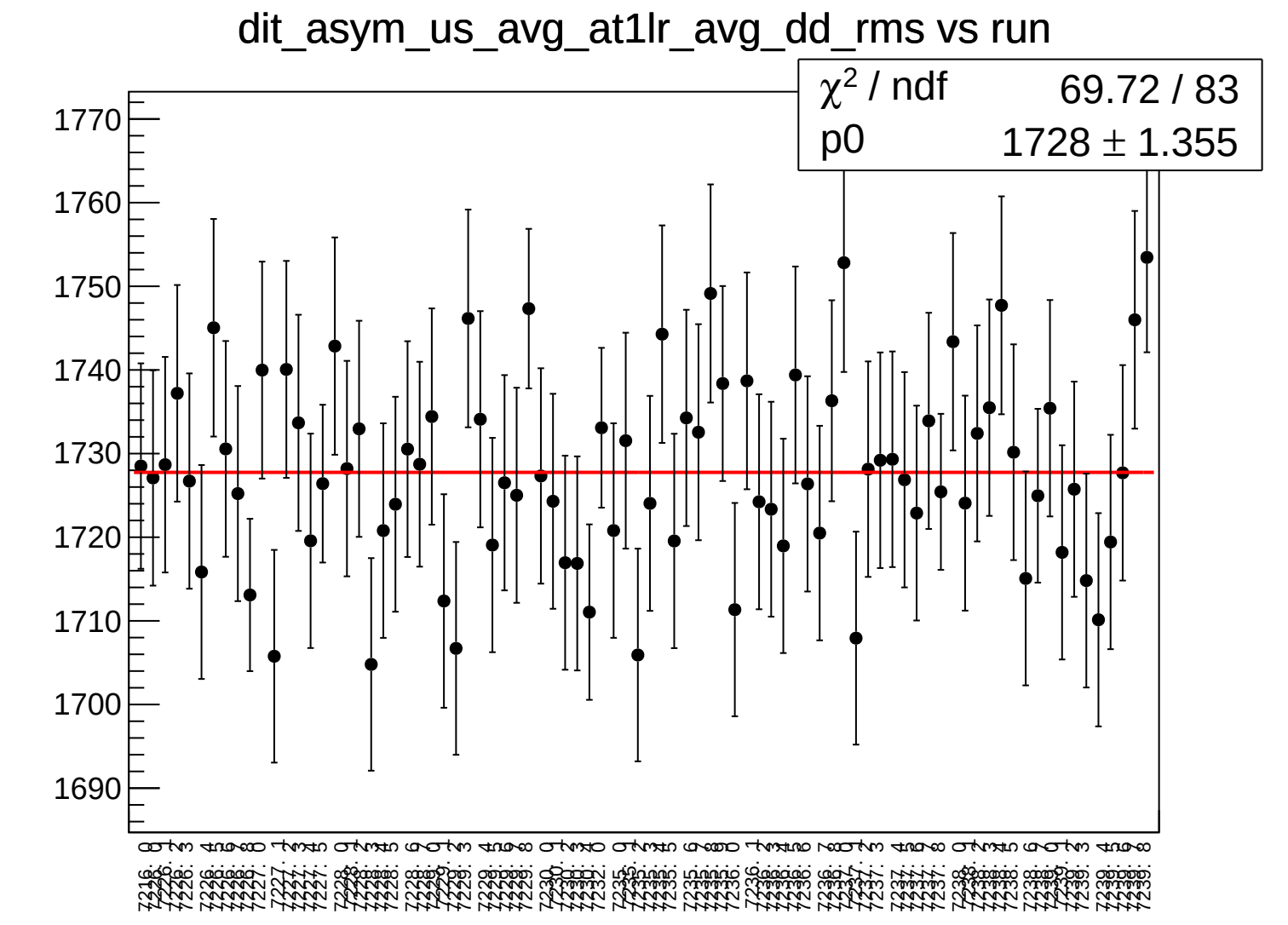

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 98.56 / 83
p0 929 ± 961
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 84
Mean −131.9
Std Dev 0
2
1
0
−1
−2
−3

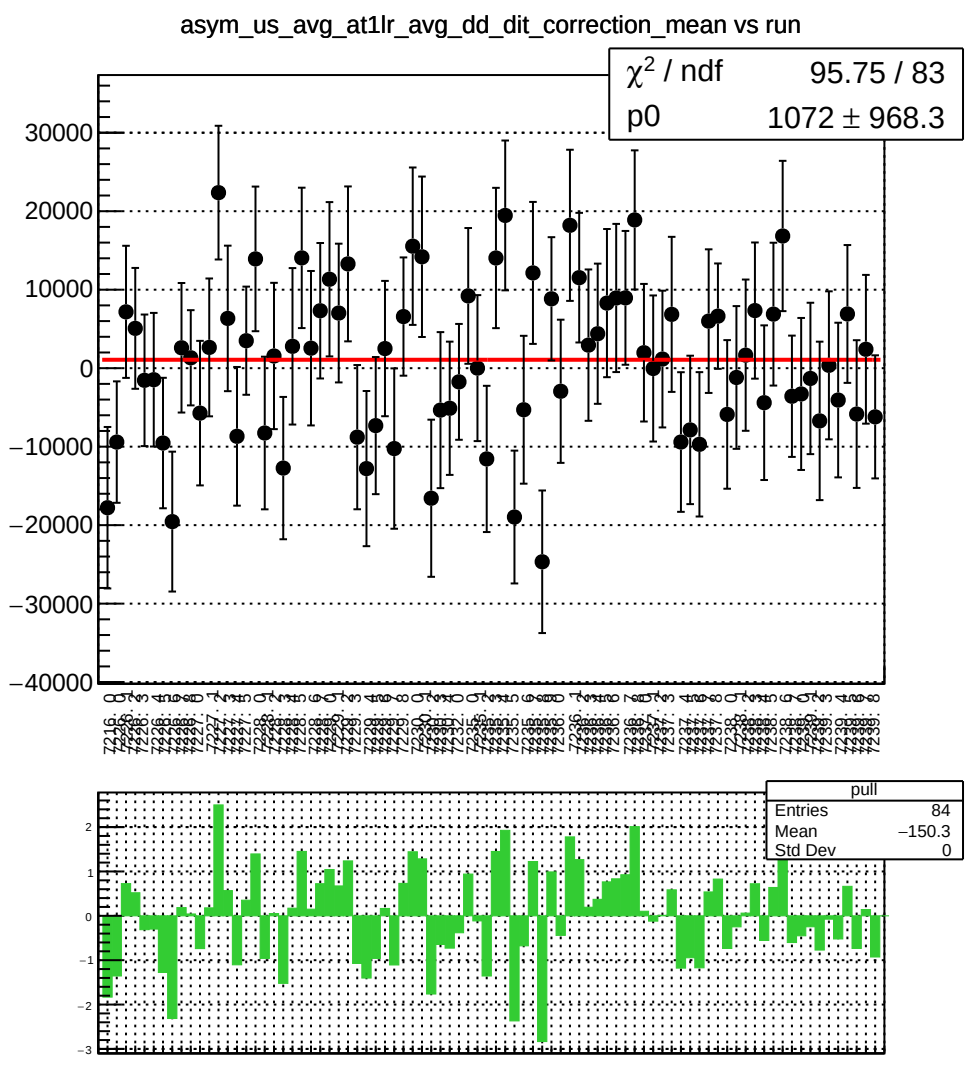

pull1D
Entries 84
Mean −0.007788
Std Dev 1.083
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

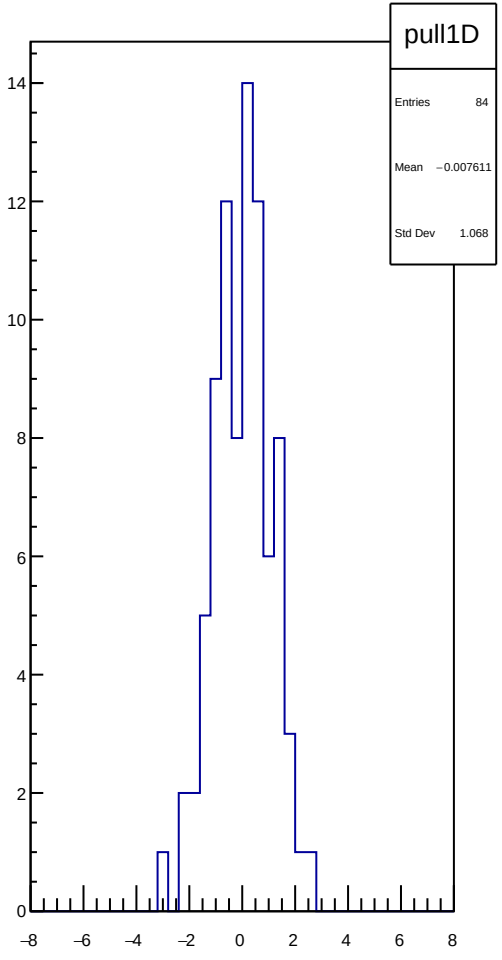

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 8236 / 83
p0 864.4 ± 0.6795
1050
1000
950
900
850
800
750
700

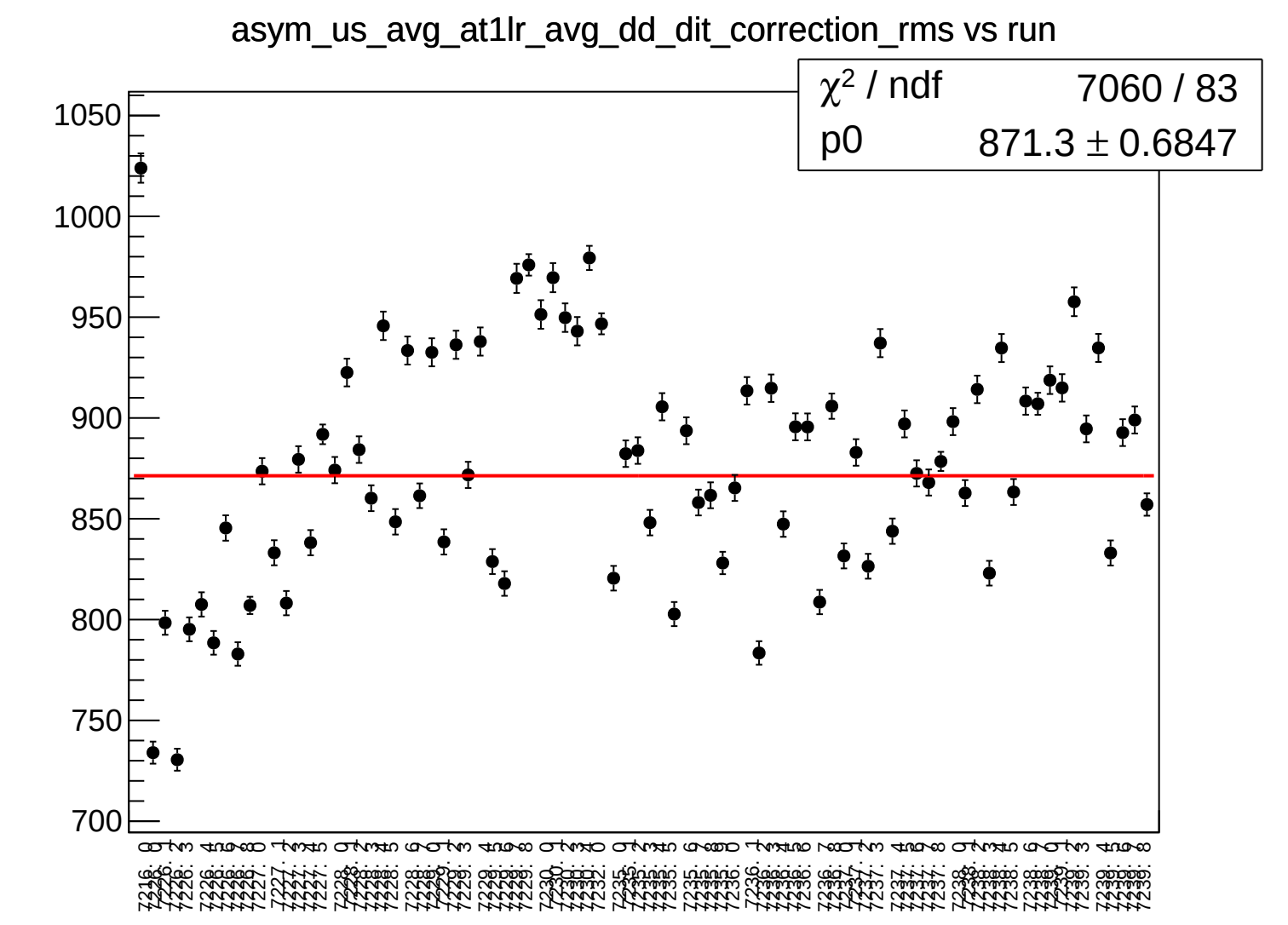

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 85.81 / 83
p0 −1197 ± 1916
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −2770
Std Dev 0
2
1
0
−1
−2

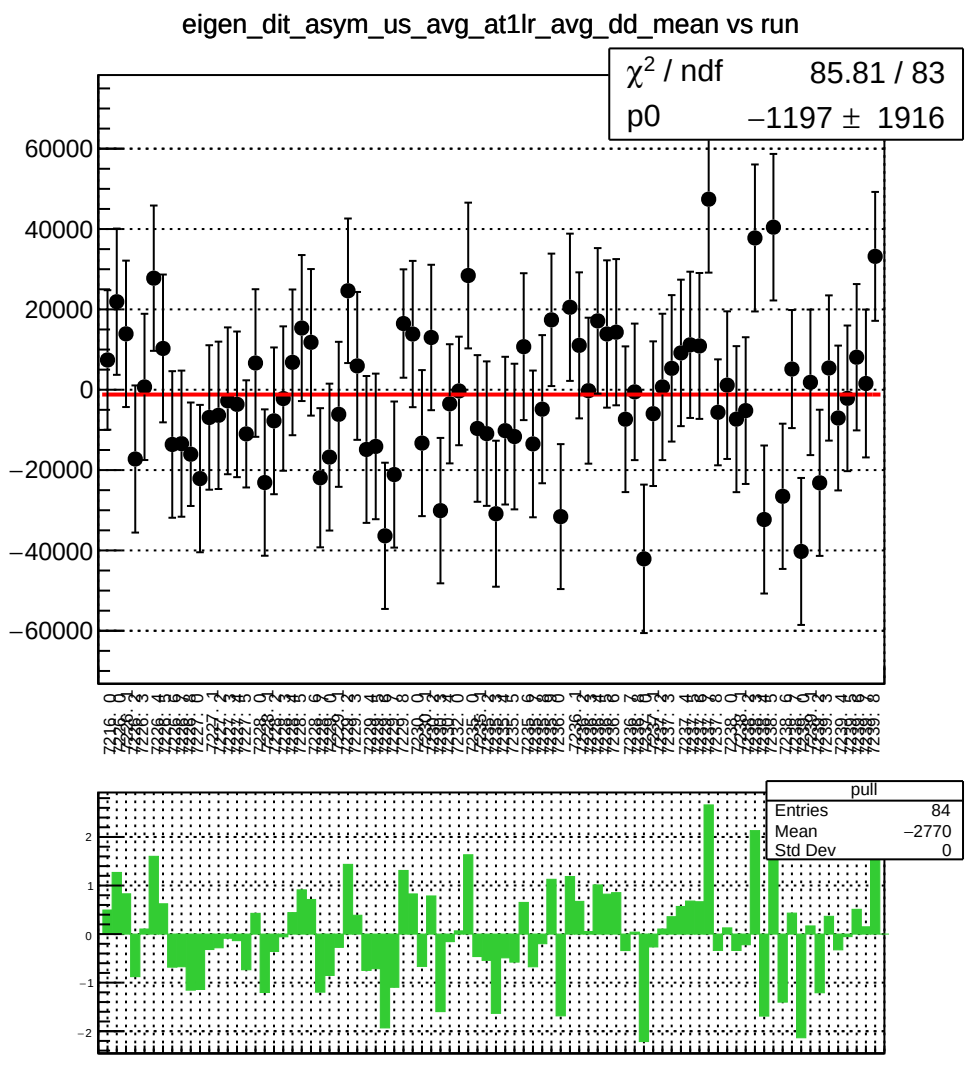

pull1D
Entries 84
Mean −0.0008062
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

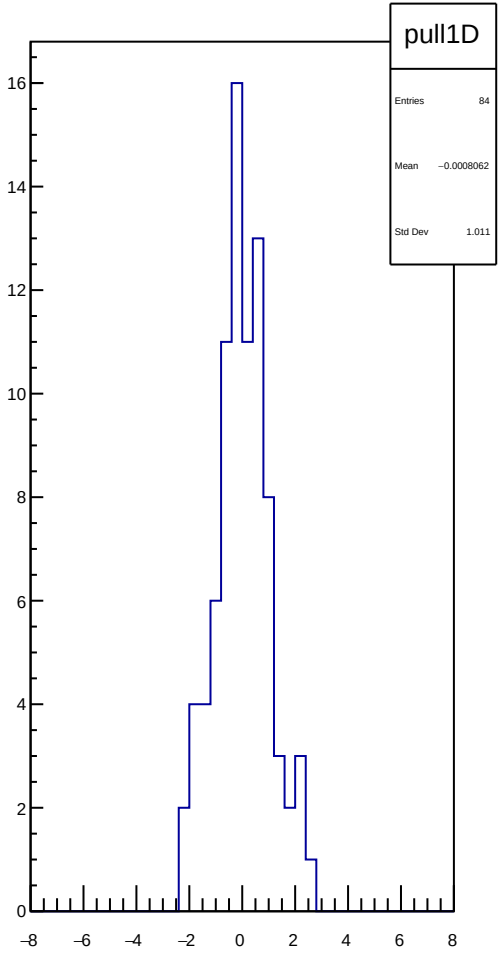

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 69.72 / 83
p0 1728 ± 1.355
1770
1760
1750
1740
1730
1720
1710
1700
1690

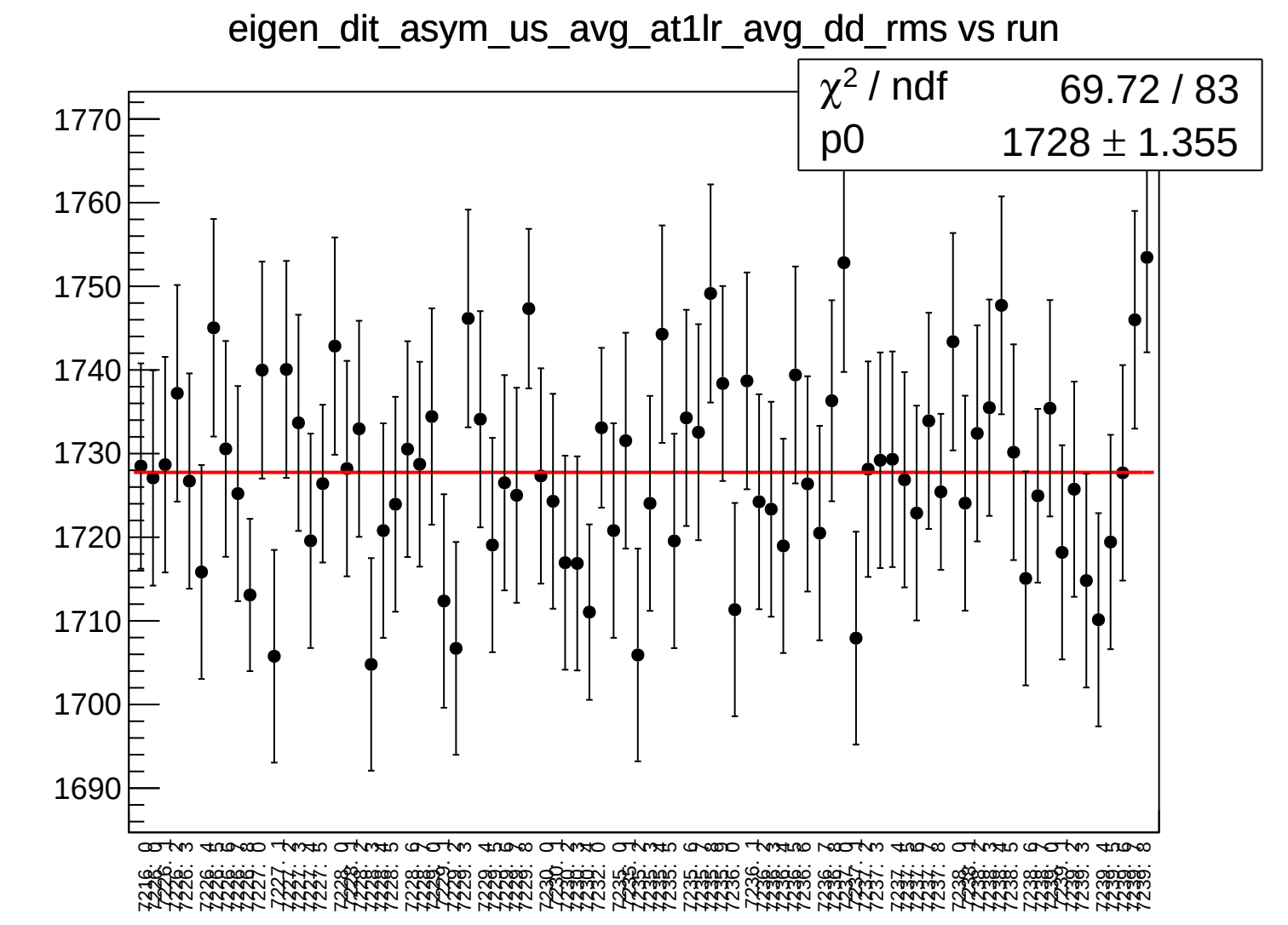

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 95.75 / 83
p0 1072 ± 968.3
pull
Entries 84
Mean −150.3
Std Dev 0

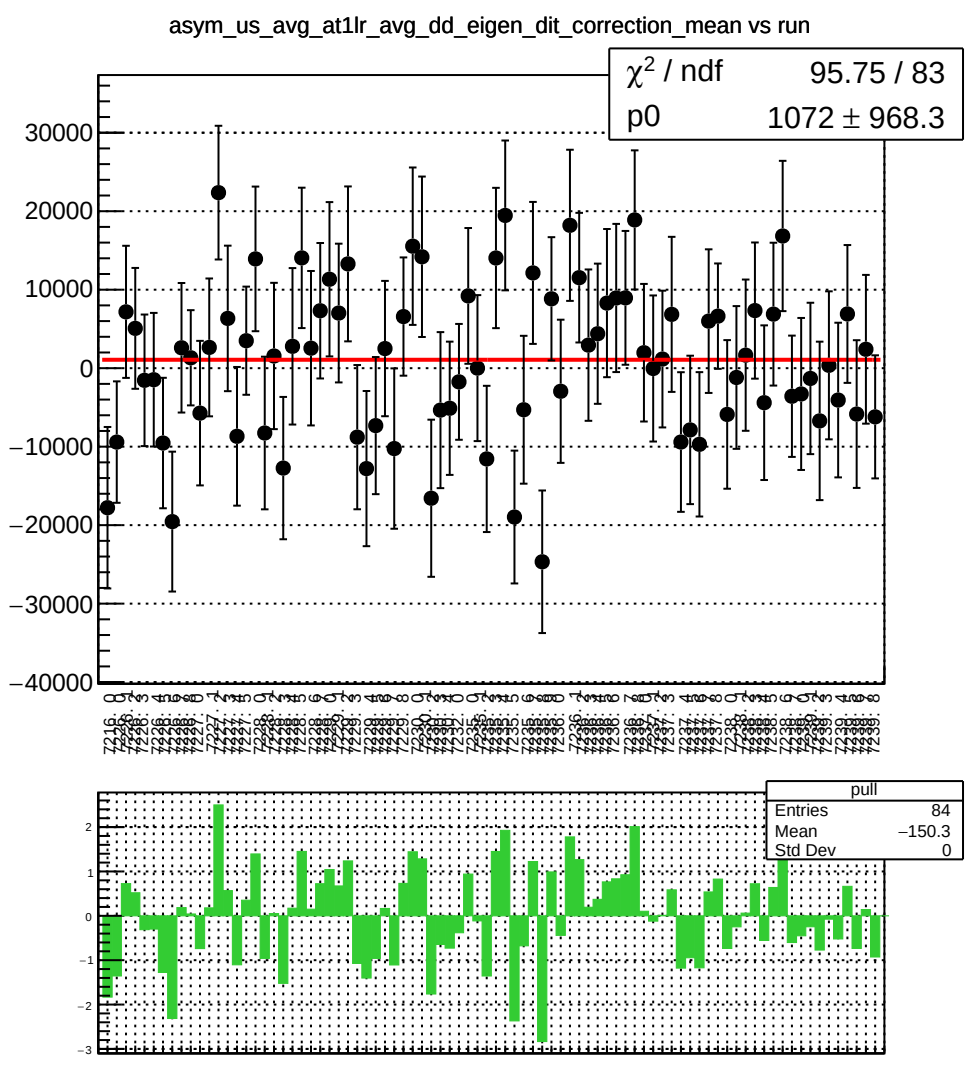

pull1D
Entries 84
Mean −0.007611
Std Dev 1.068

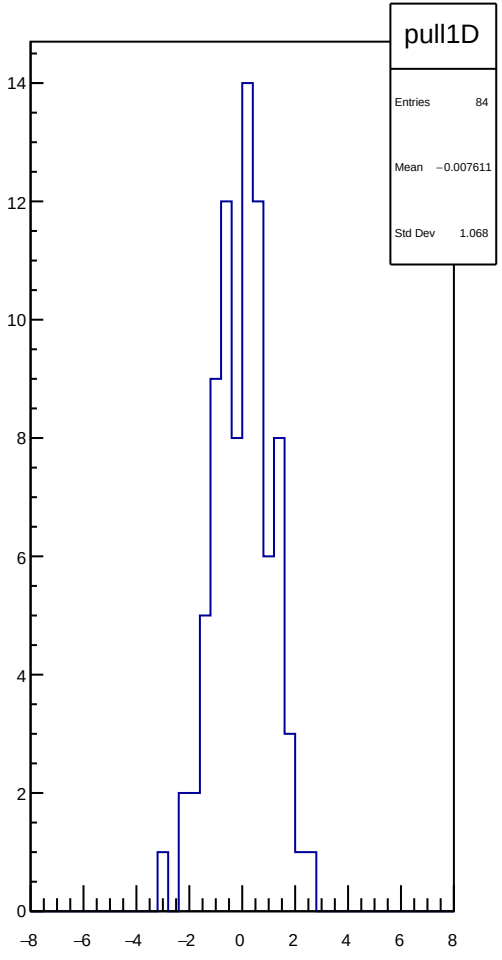

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 7060 / 83
p0 871.3 ± 0.6847
1050
1000
950
900
850
800
750
700

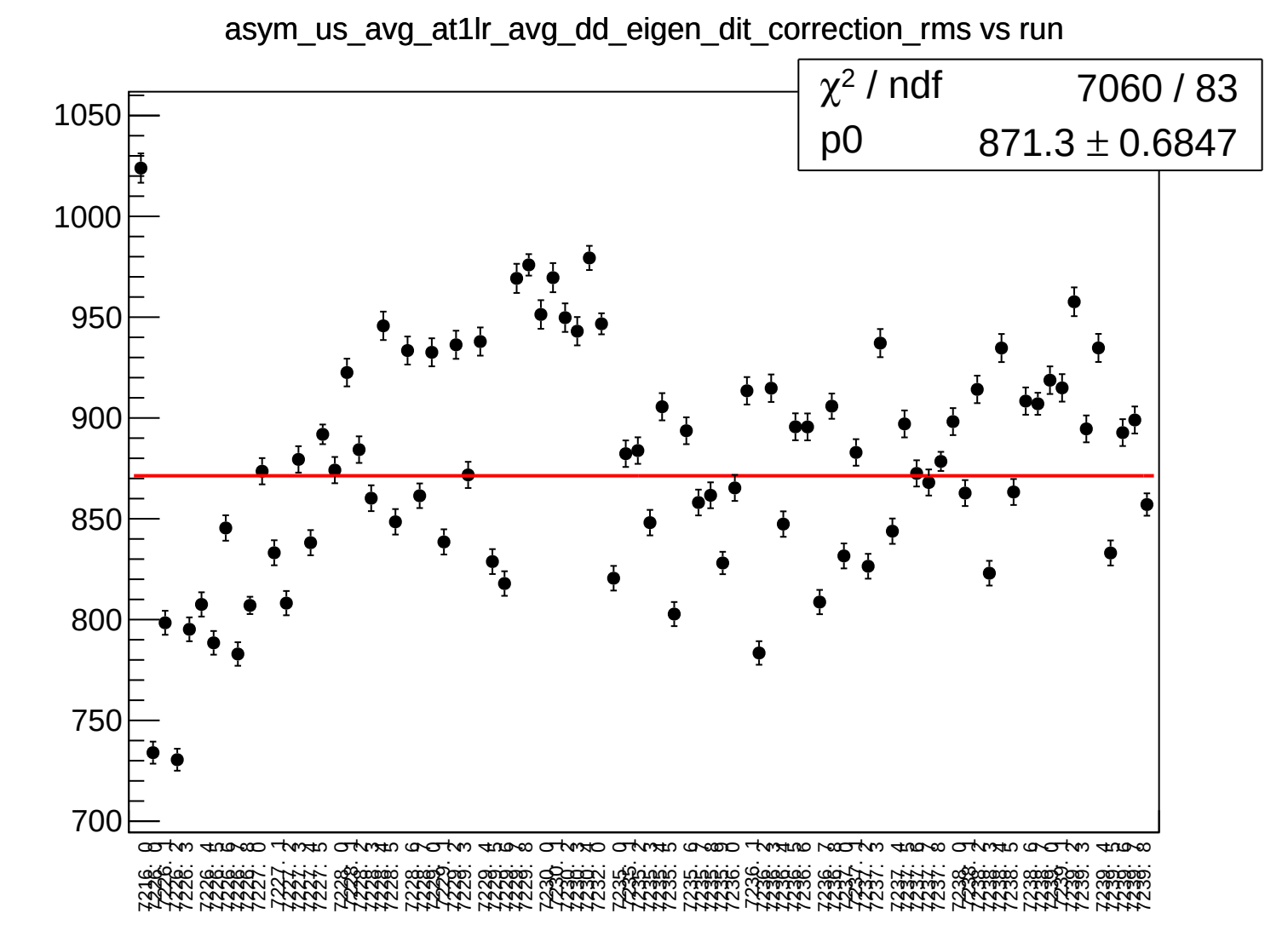

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 85.81 / 83
p0 −1197 ± 1916
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −2770
Std Dev 0
2
1
0
−1
−2

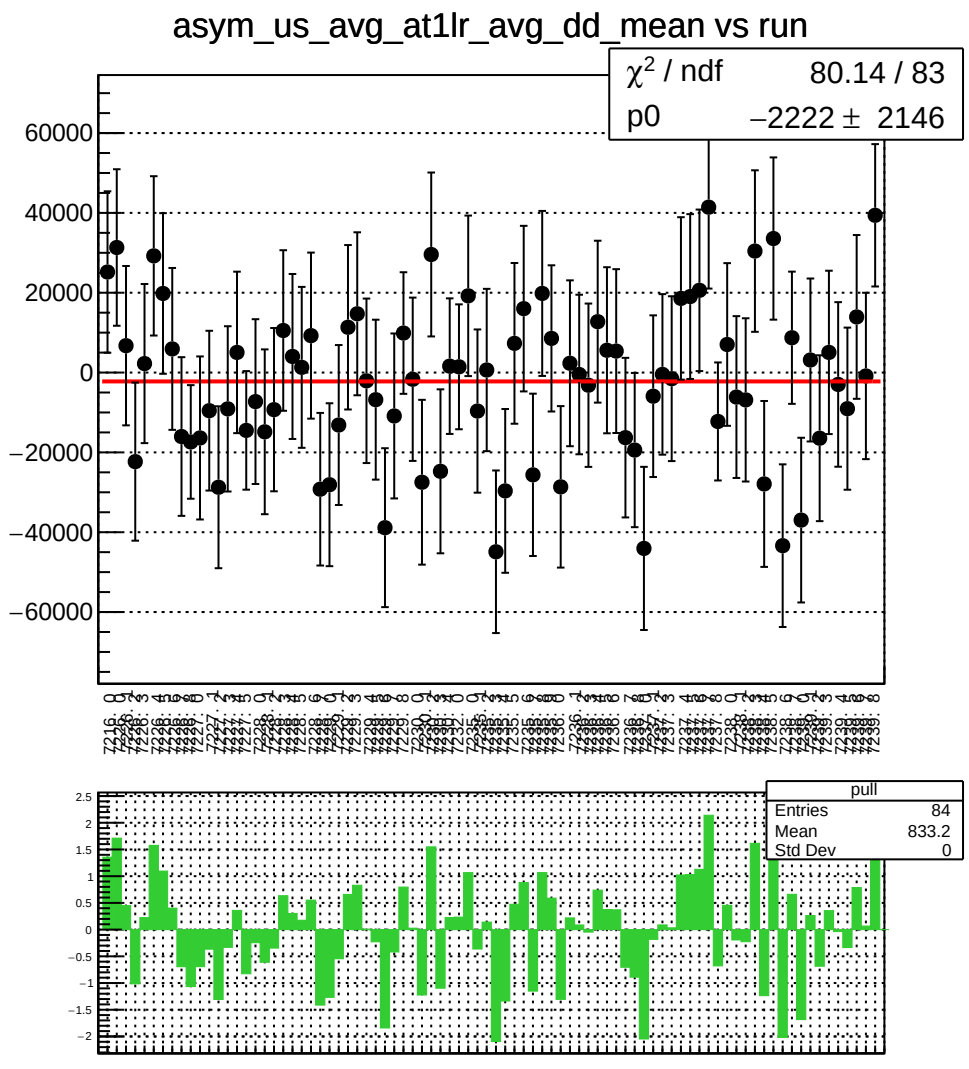

pull1D
Entries 84
Mean −0.0008062
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

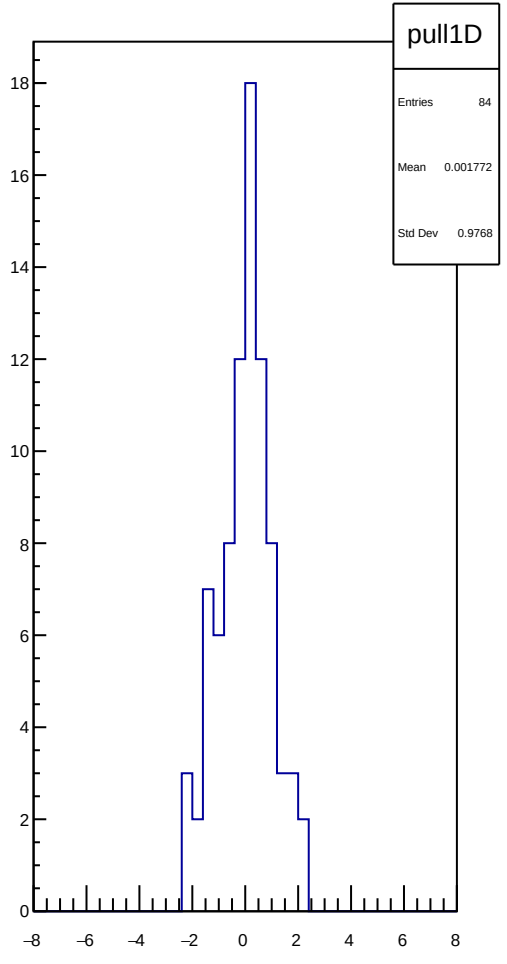

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 69.72 / 83
p0 1728 ± 1.355
1770
1760
1750
1740
1730
1720
1710
1700
1690

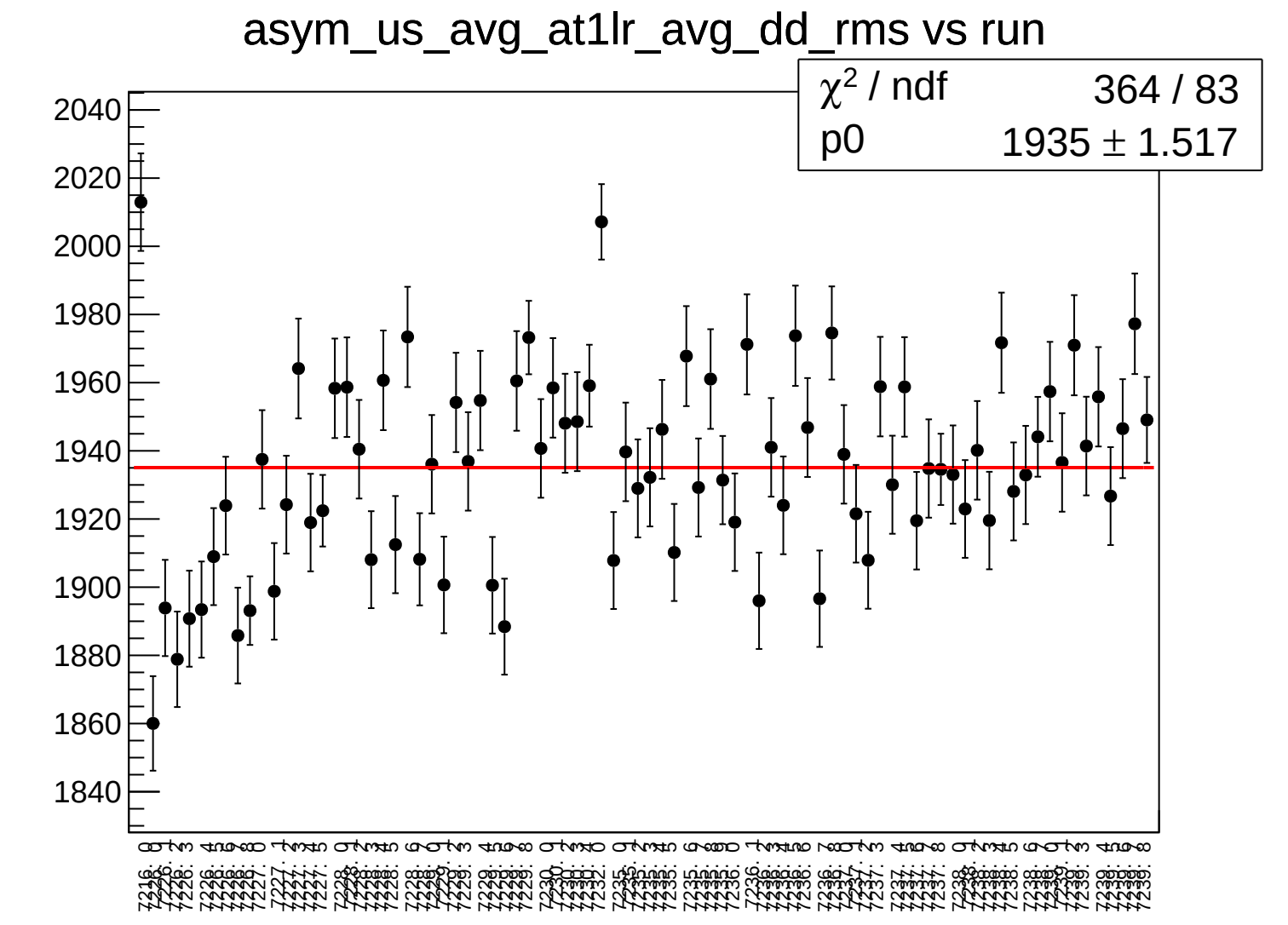

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 95.75 / 83
p0 1072 ± 968.3
pull
Entries 84
Mean −150.3
Std Dev 0

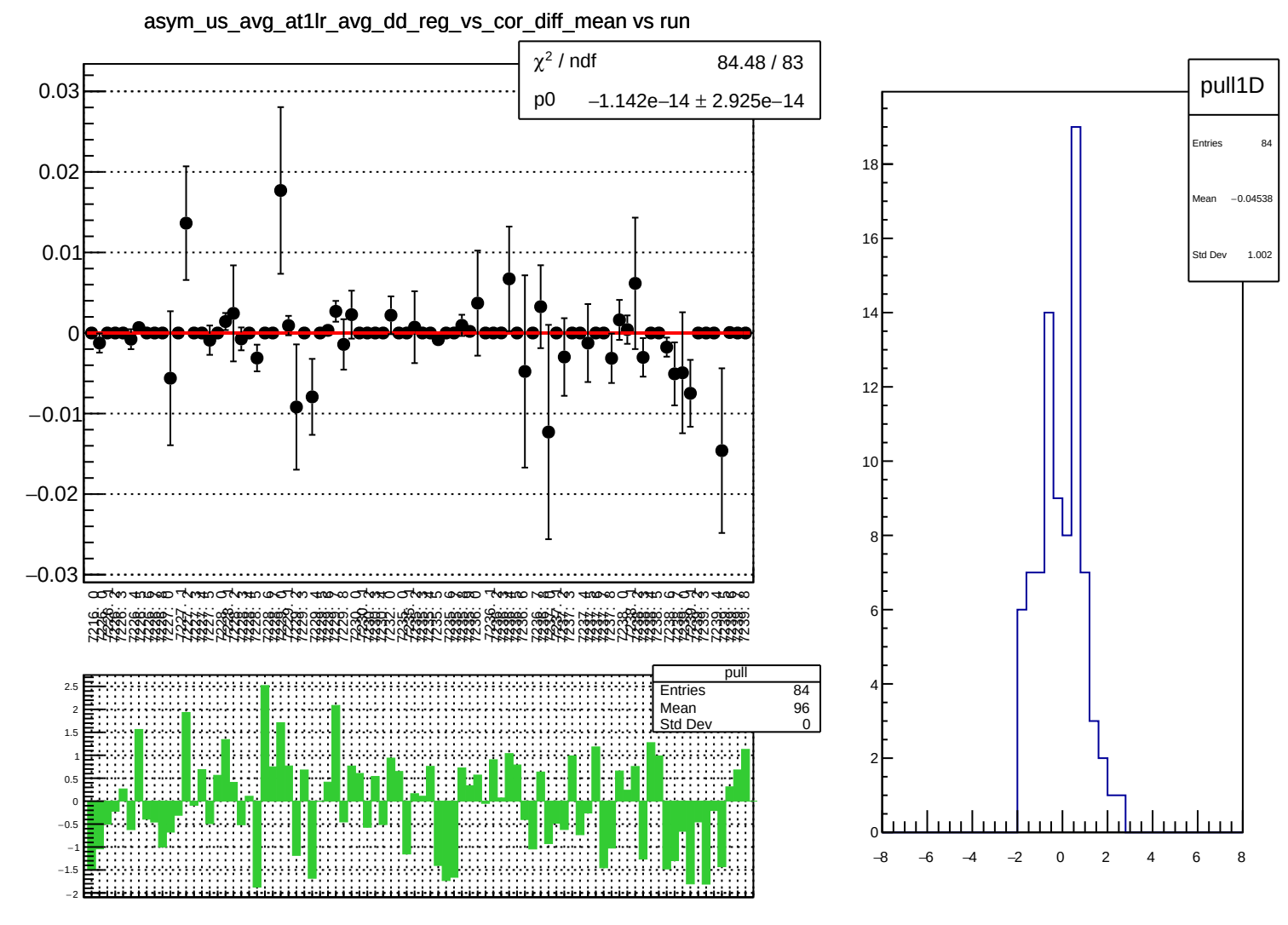

pull1D
Entries 84
Mean −0.007611
Std Dev 1.068

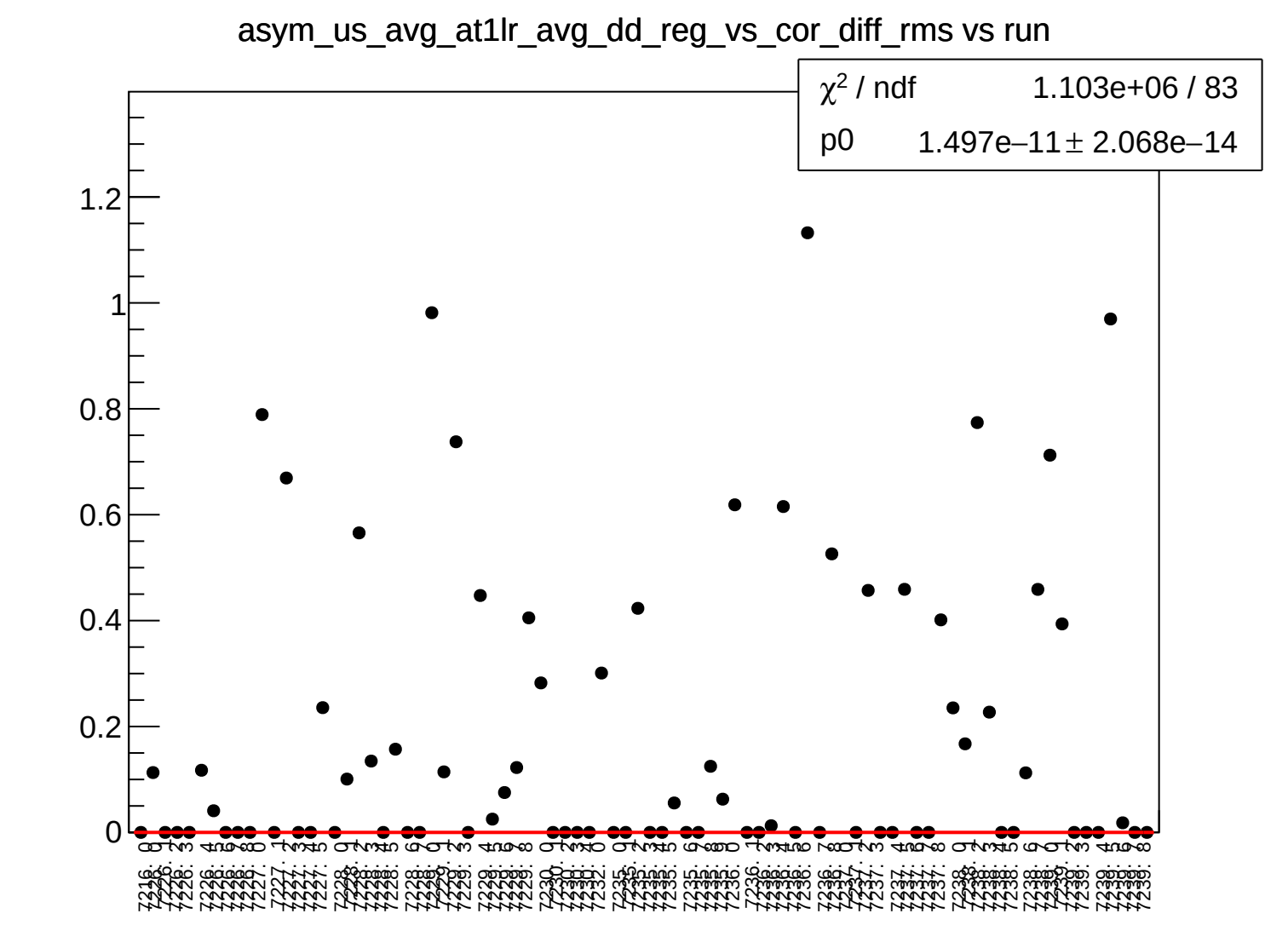

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 7060 / 83
p0 871.3 ± 0.6847
1050
1000
950
900
850
800
750
700

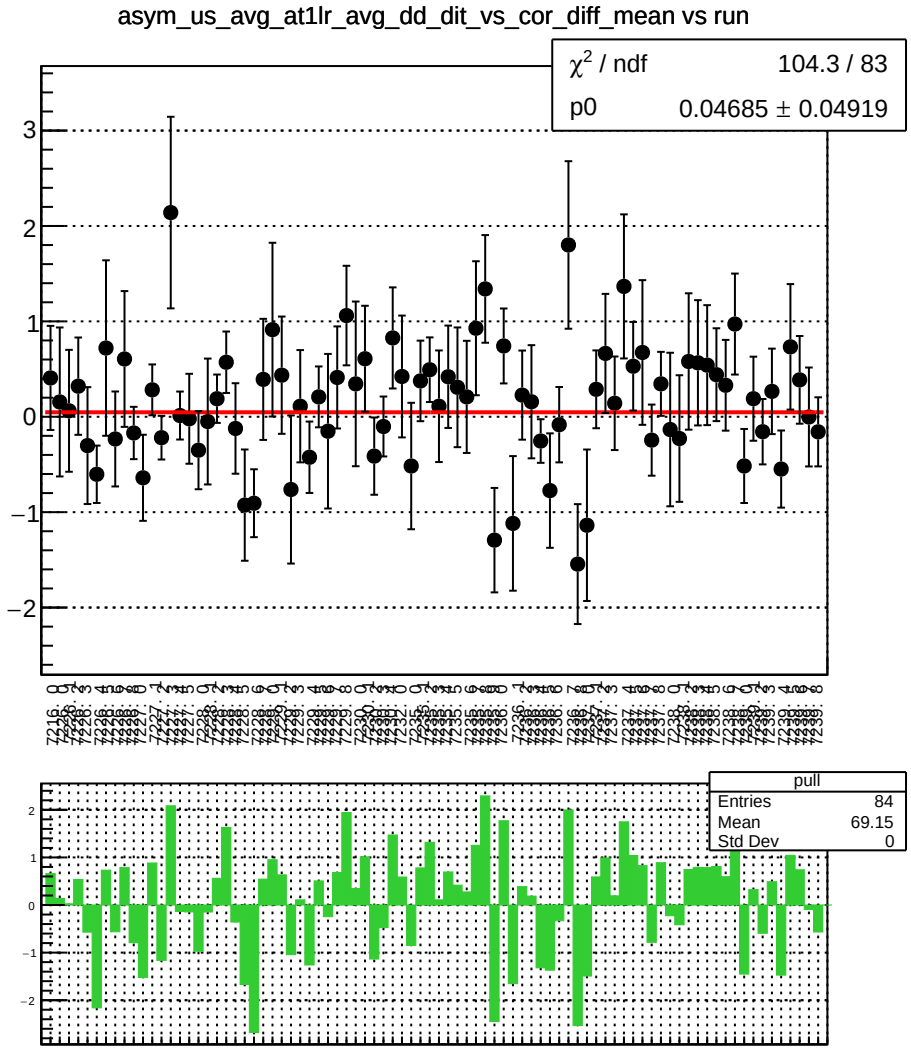

asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 80.14 / 83
p0 −2222 ± 2146
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 833.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

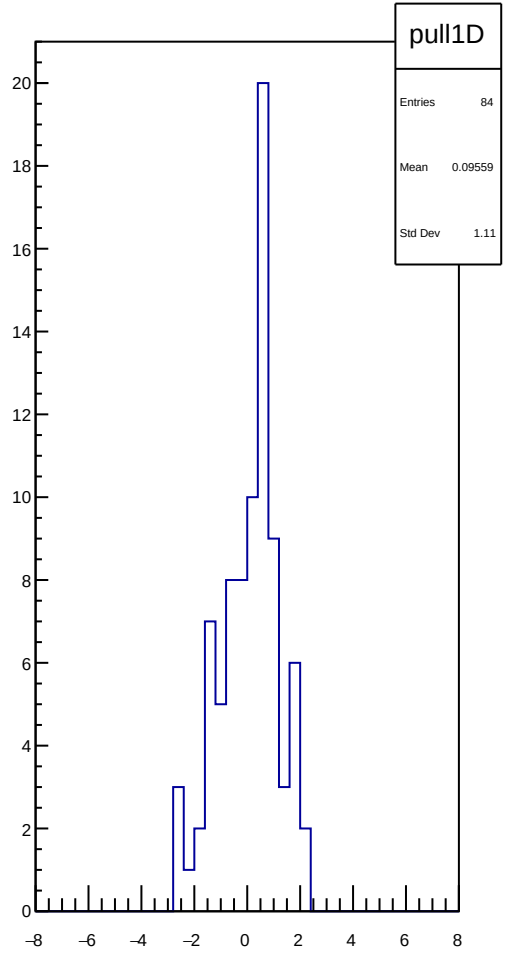

pull1D
Entries 84
Mean 0.001772
Std Dev 0.9768
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

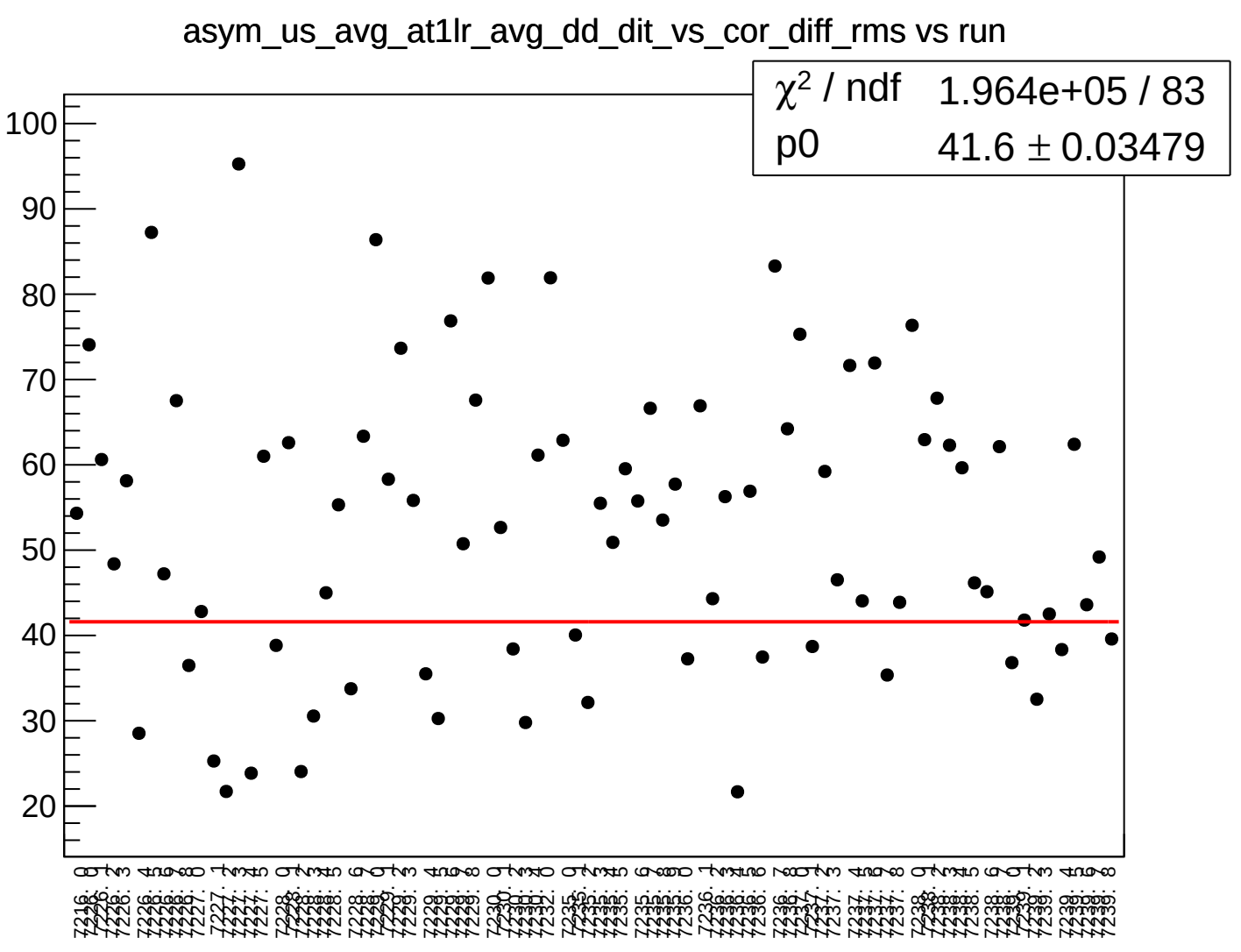

asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 364 / 83
p0 1935 ± 1.517
2040
2020
2000
1980
1960
1940
1920
1900
1880
1860
1840

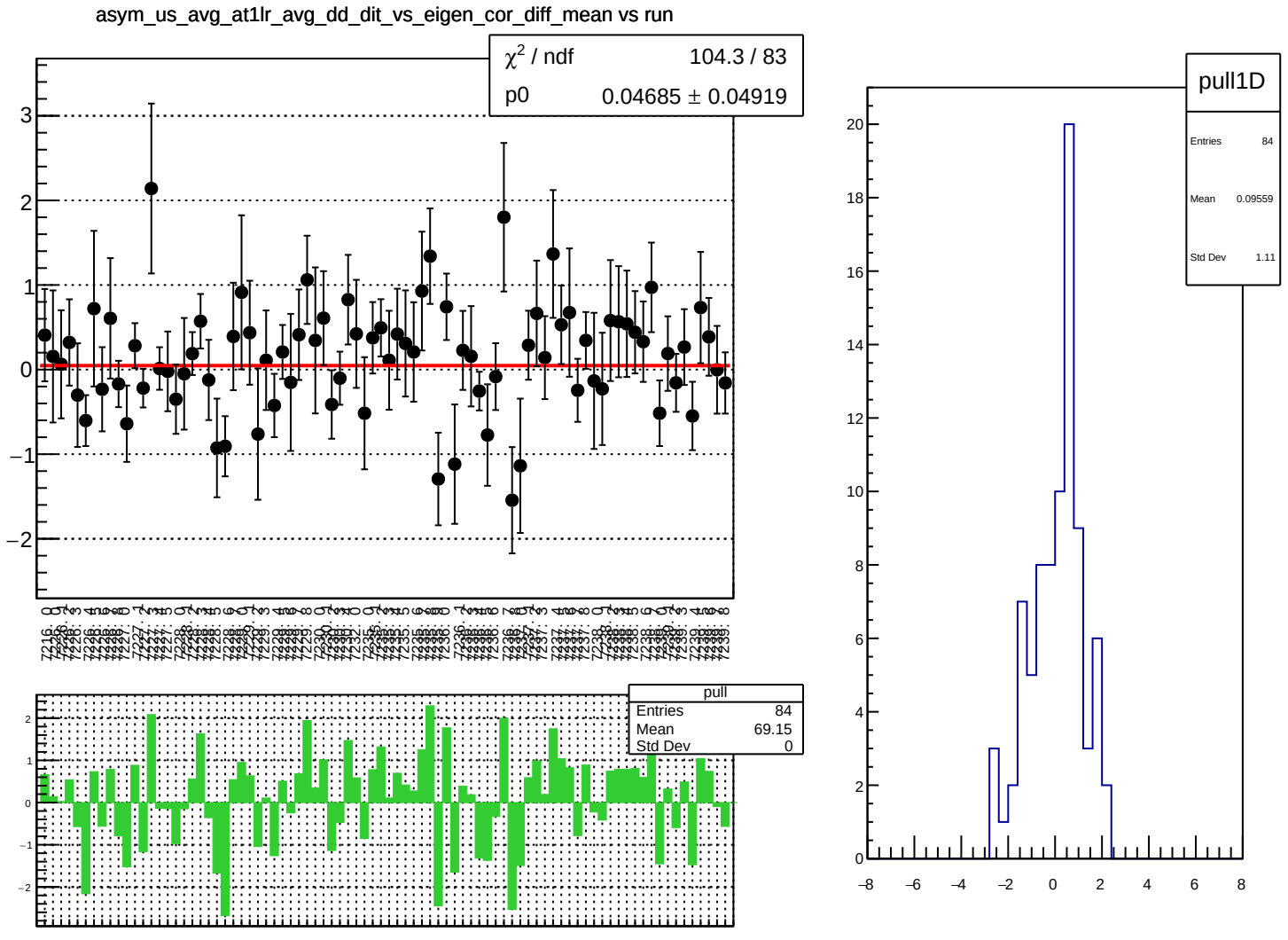

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 84.48 / 83
p0 −1.142e−14 ± 2.925e−14
pull
Entries 84
Mean 96
Std Dev 0
pull1D
Entries 84
Mean −0.04538
Std Dev 1.002

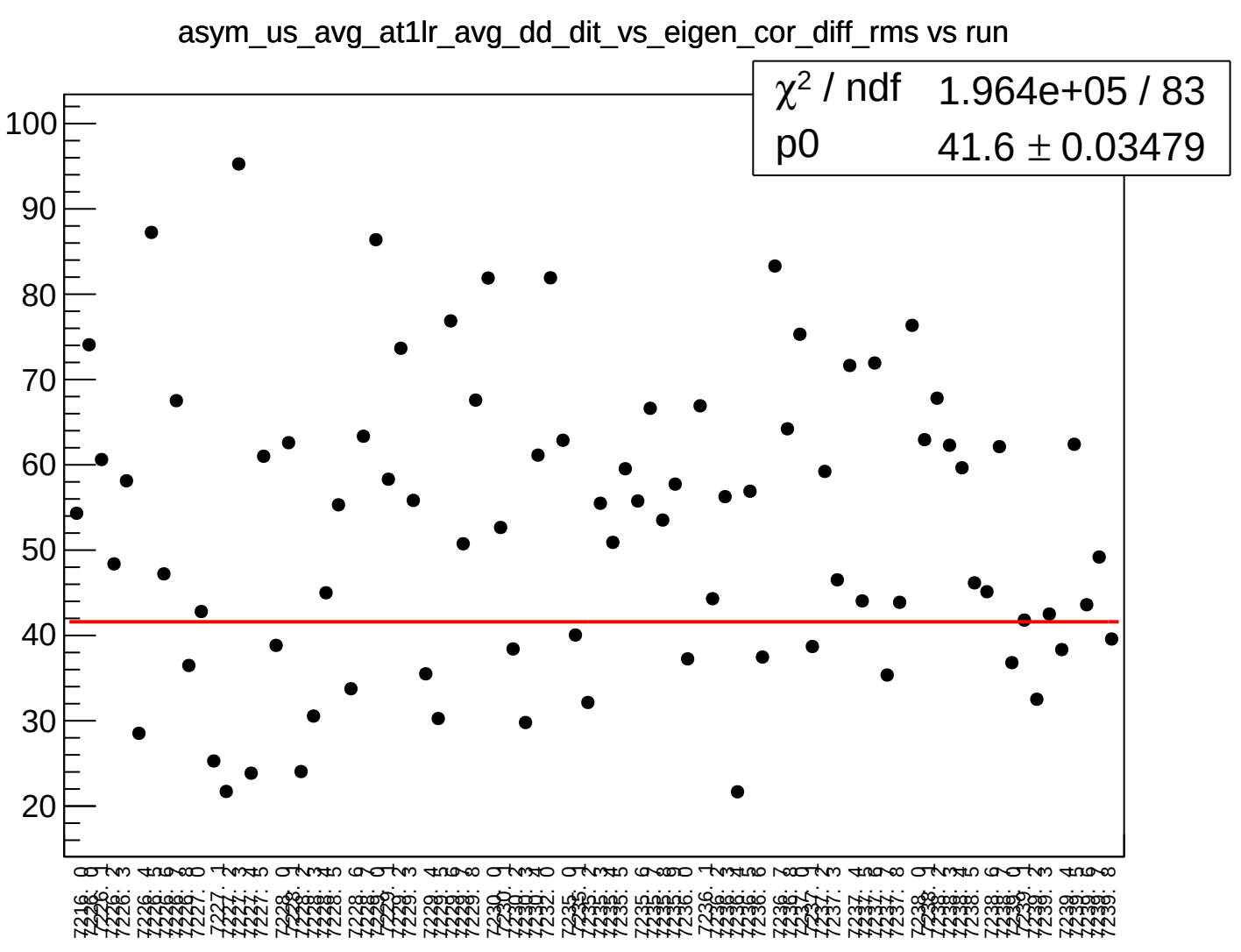

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.103e+06 / 83
p0 1.497e−11 ± 2.068e−14
1.2
1
0.8
0.6
0.4
0.2
0

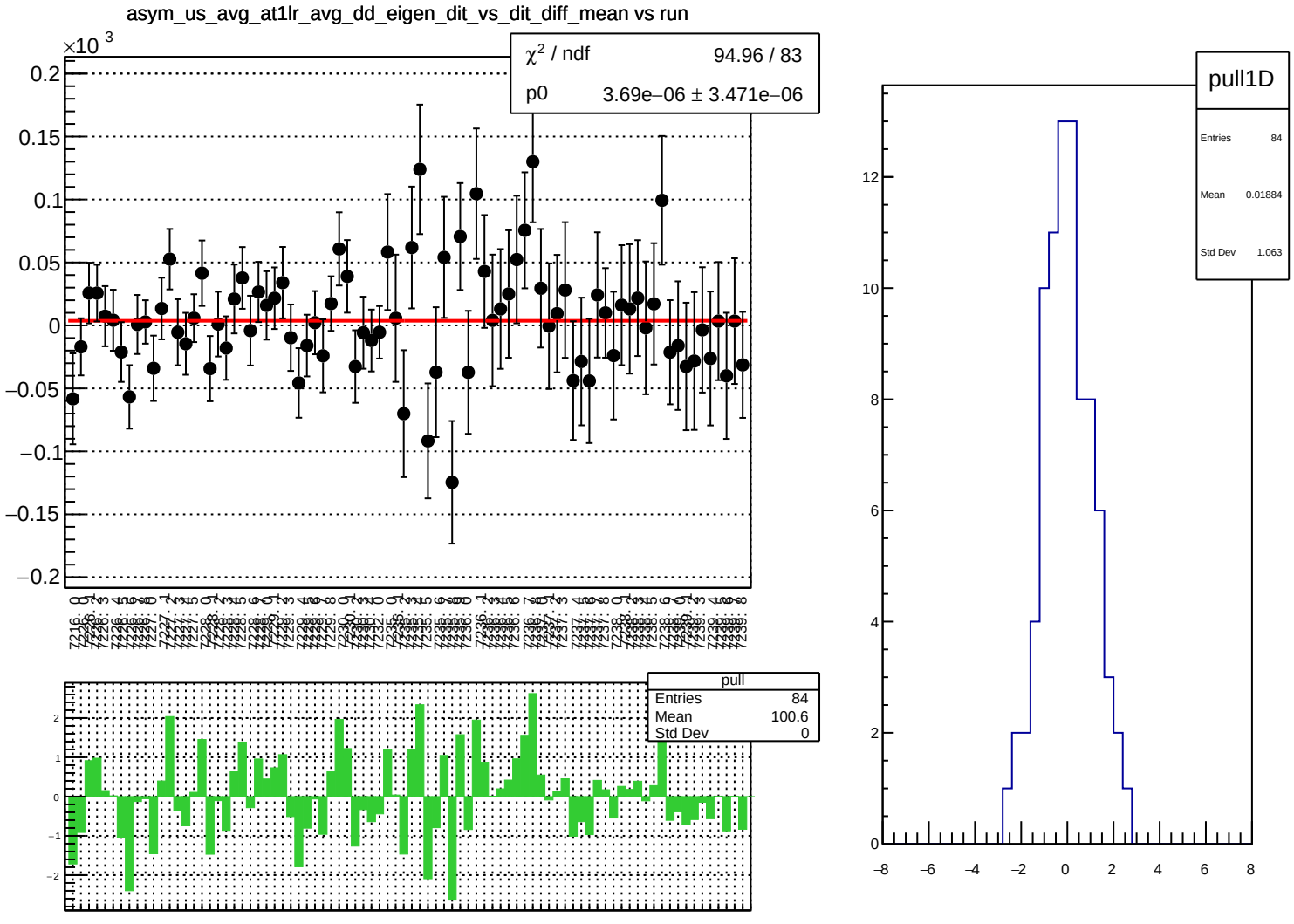

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 104.3 / 83
p0 0.04685 ± 0.04919
pull
Entries 84
Mean 69.15
Std Dev 0

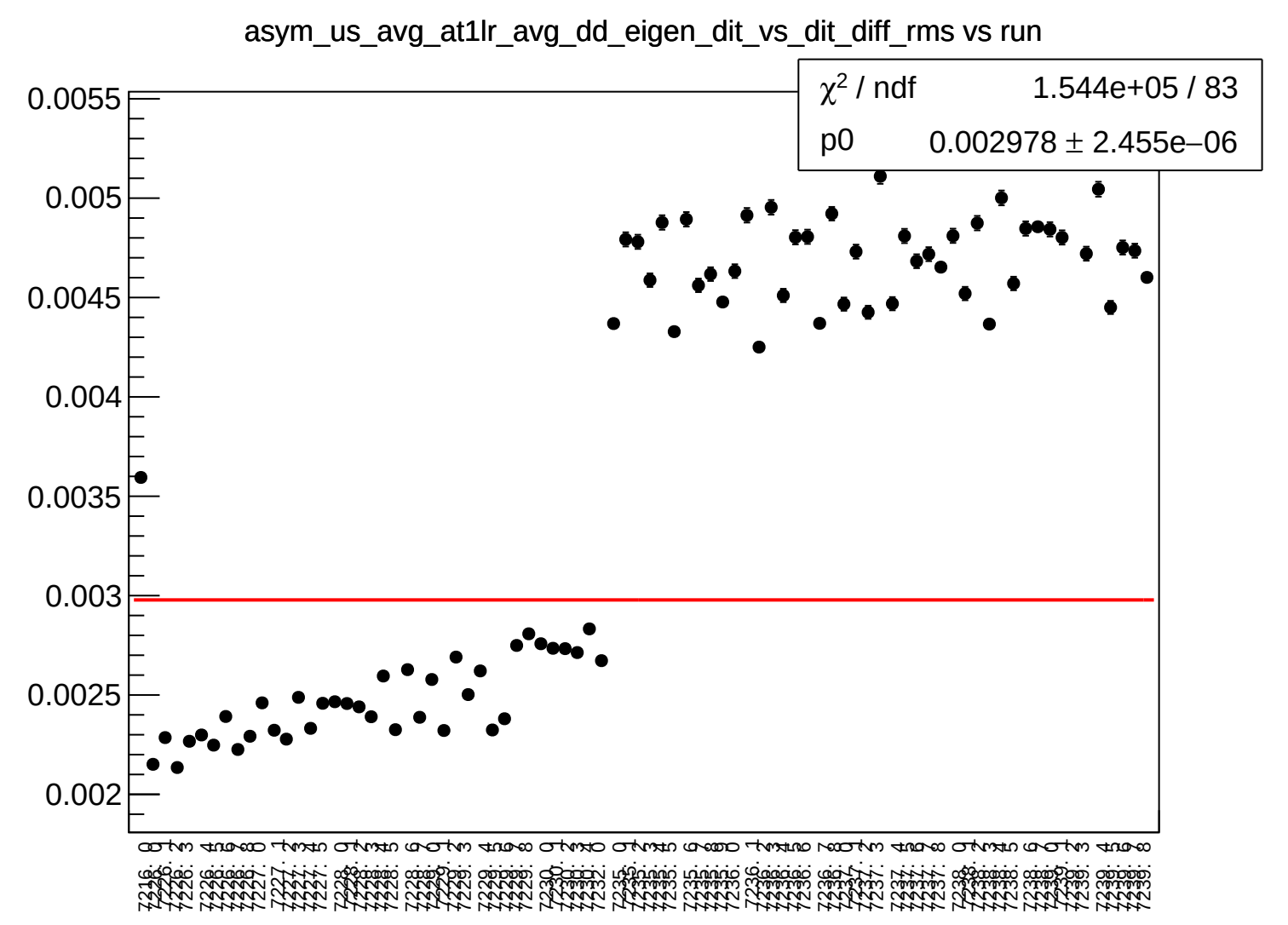

pull1D
Entries 84
Mean 0.09559
Std Dev 1.11

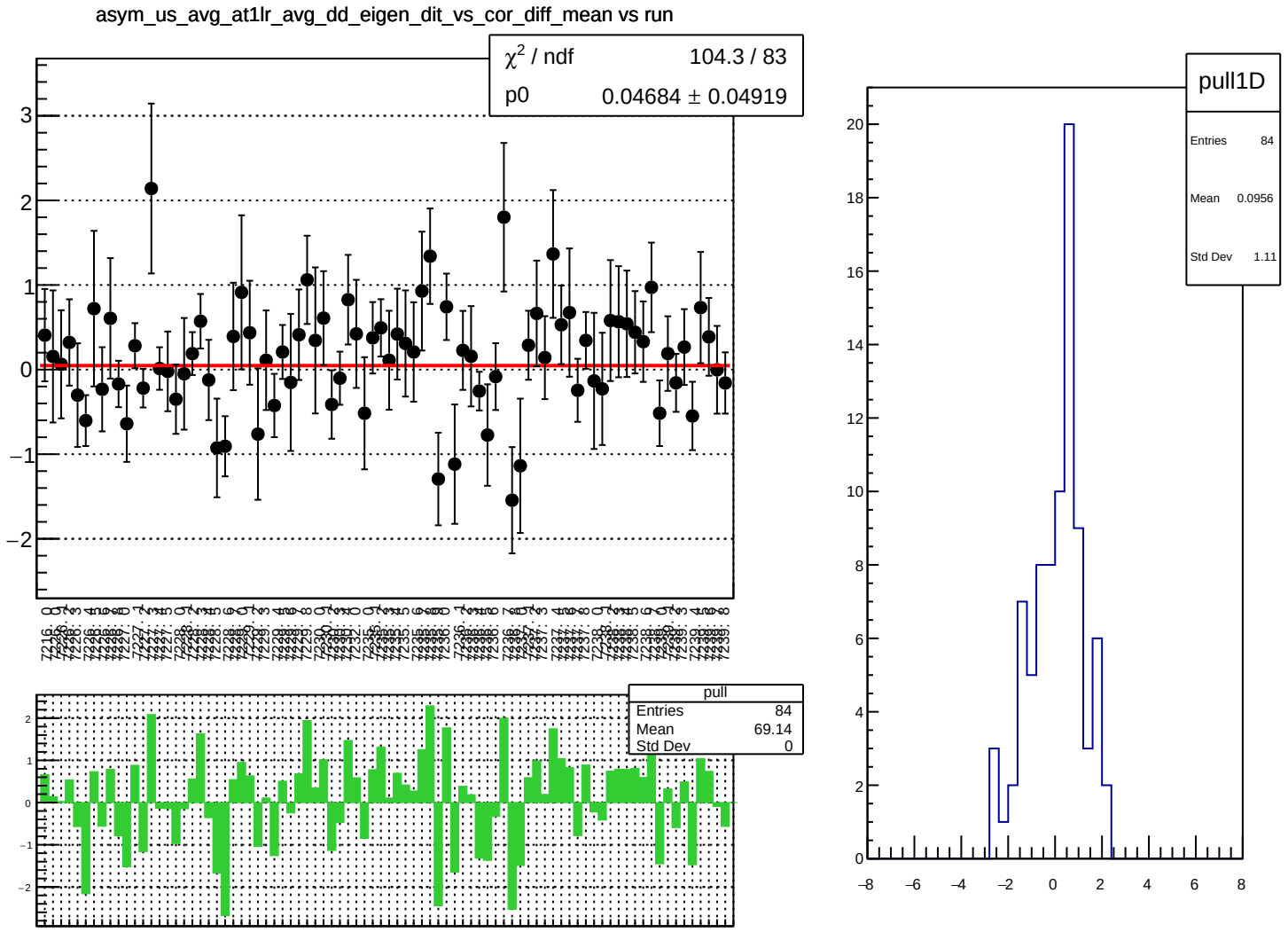

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.964e+05 / 83
p0 41.6 ± 0.03479
100
90
80
70
60
50
40
30
20

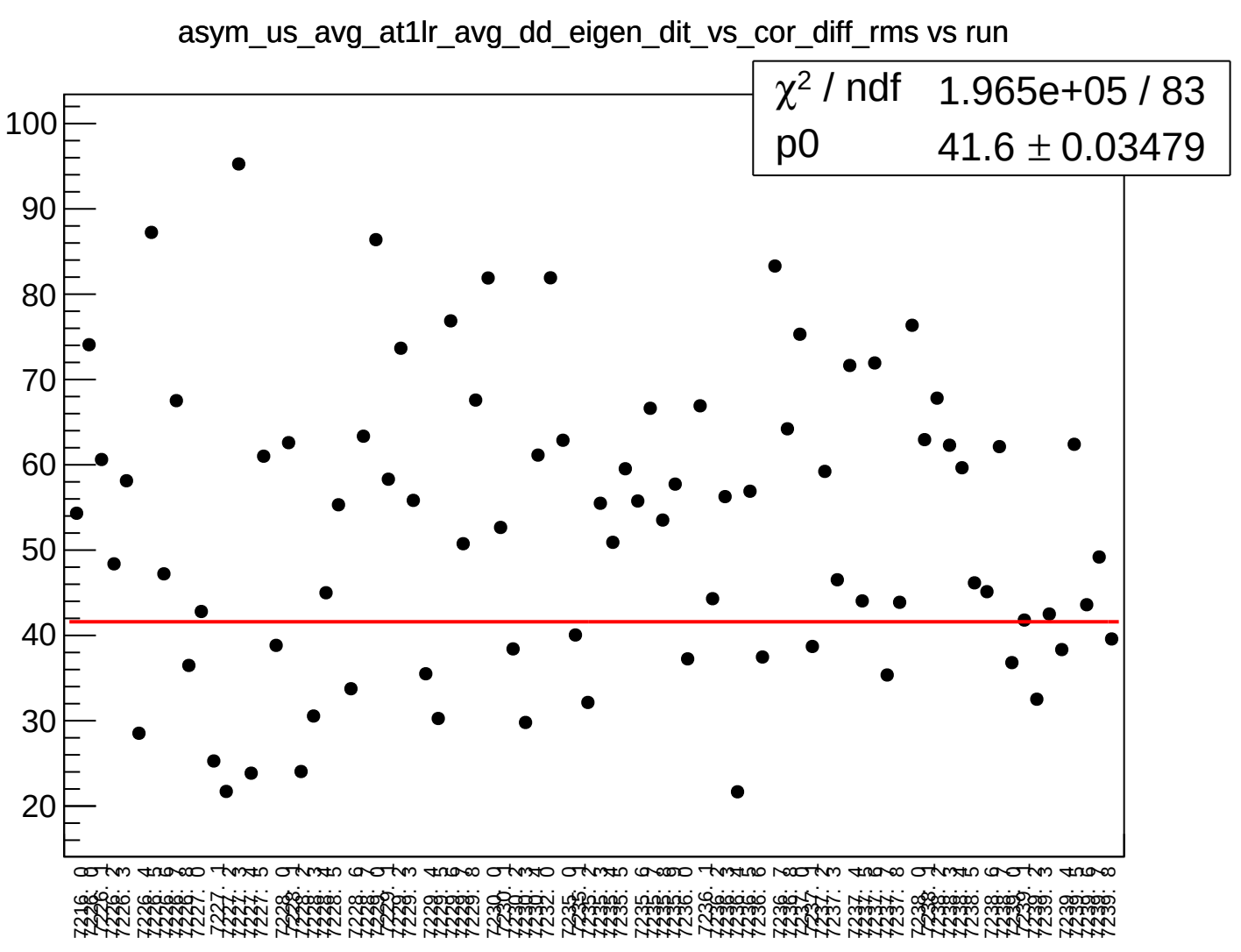

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.3 / 83
p0 0.04685 ± 0.04919
pull
Entries 84
Mean 69.15
Std Dev 0
pull1D
Entries 84
Mean 0.09559
Std Dev 1.11

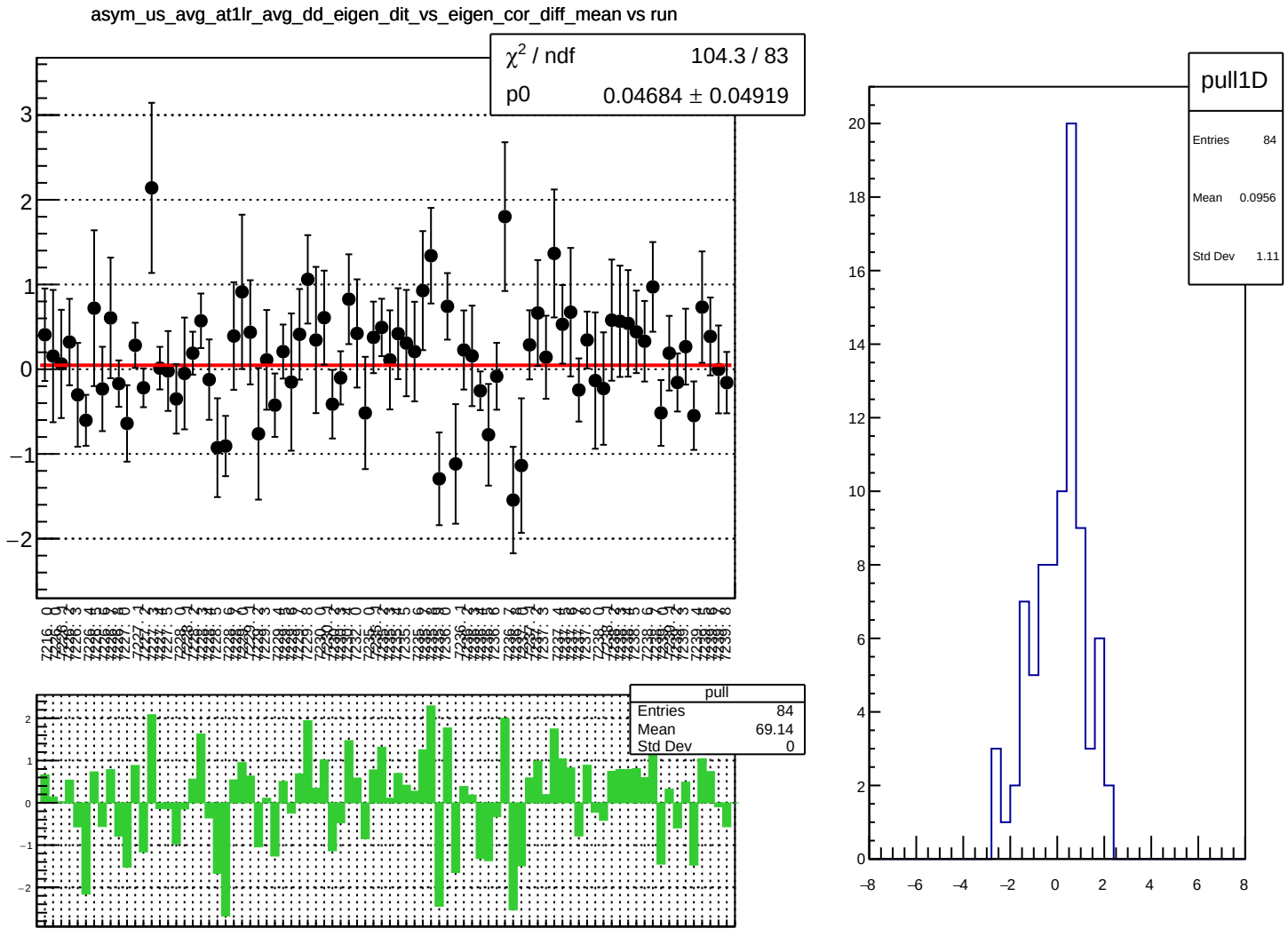

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.964e+05 / 83
p0 41.6 ± 0.03479
100
90
80
70
60
50
40
30
20

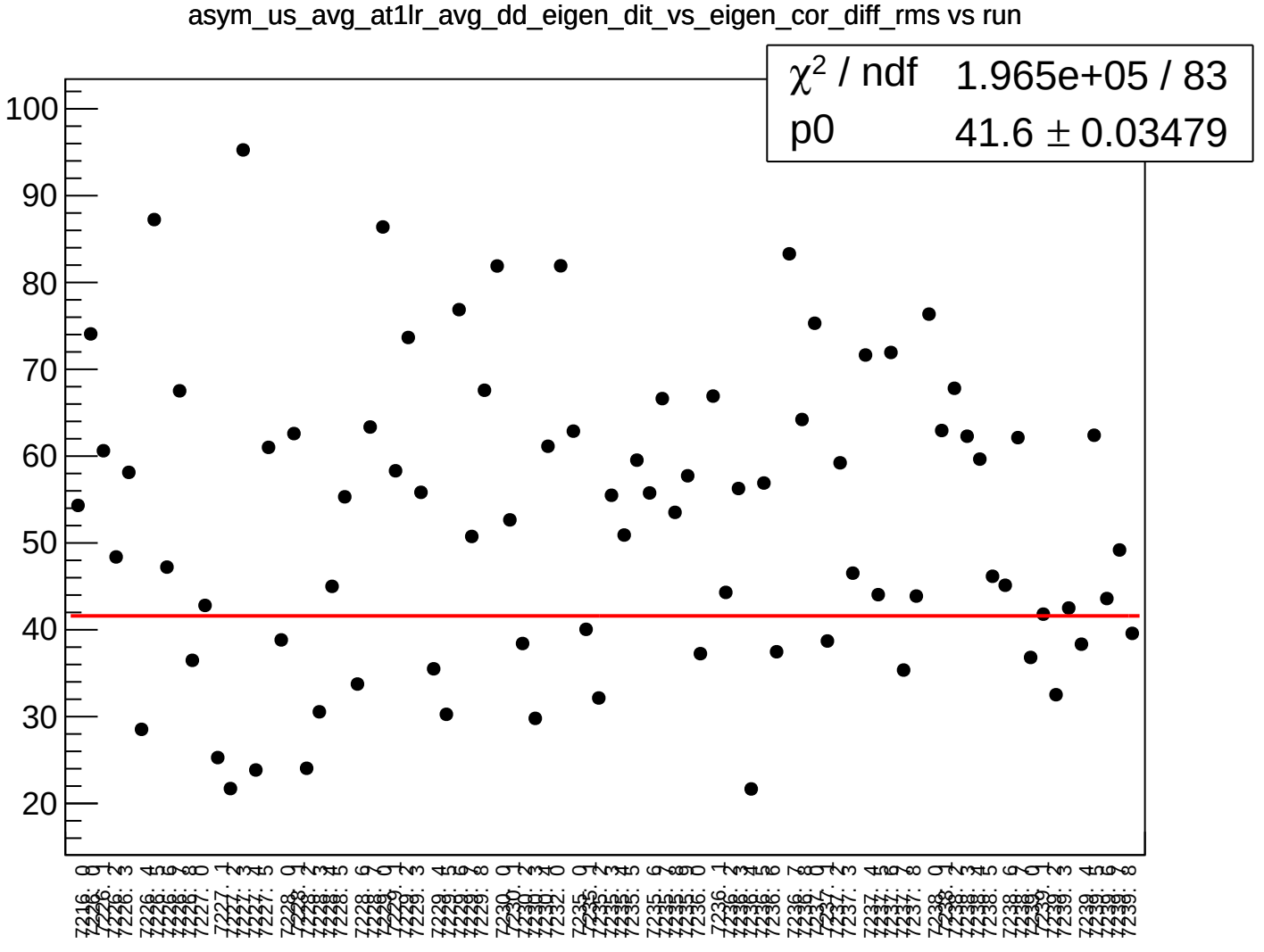

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.96 / 83
p0 3.69e−06 ± 3.471e−06
pull
Entries 84
Mean 100.6
Std Dev 0
pull1D
Entries 84
Mean 0.01884
Std Dev 1.063

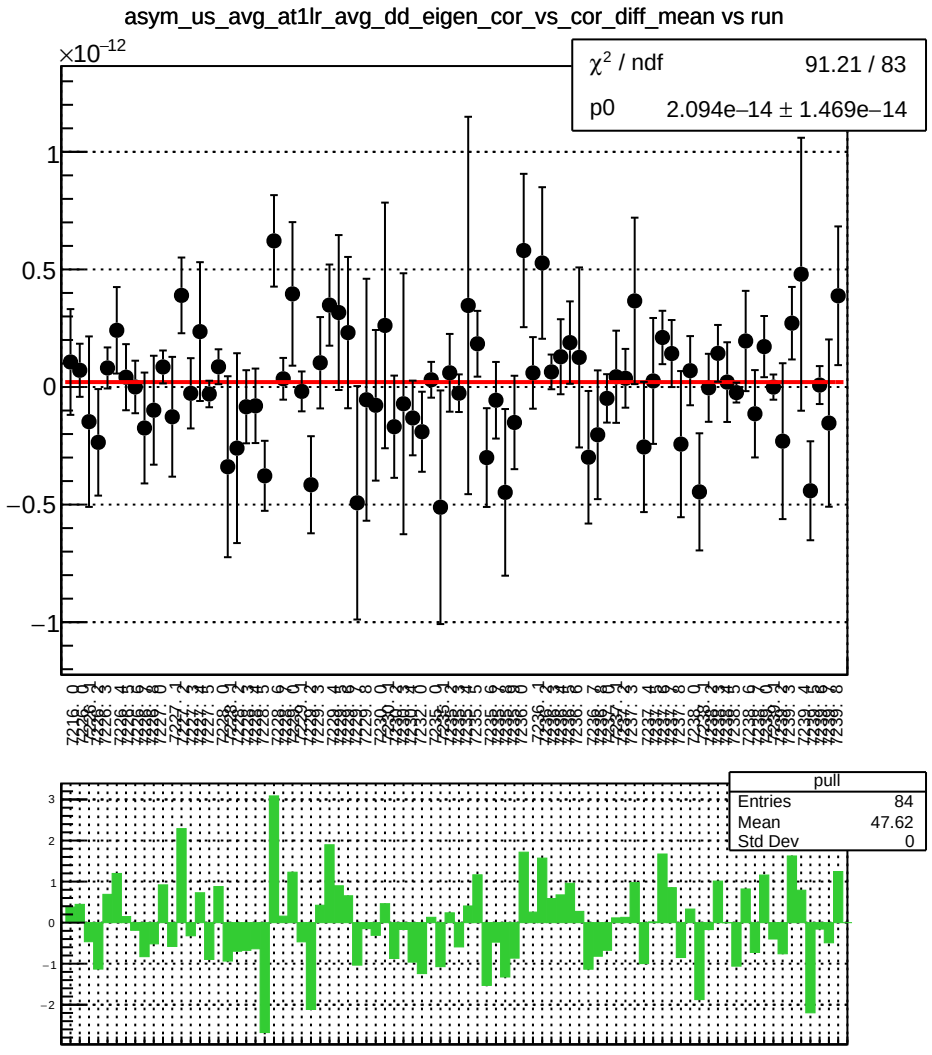

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.544e+05 / 83
p0 0.002978 ± 2.455e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

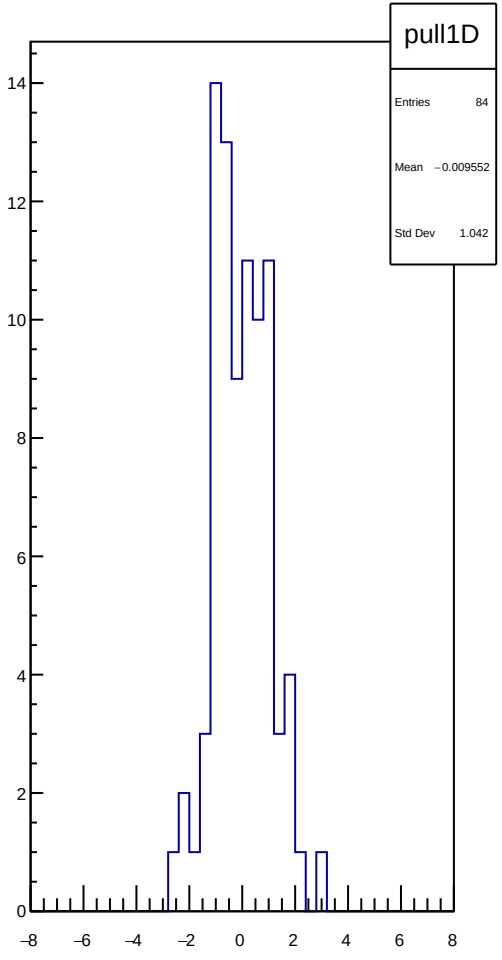

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.3 / 83
p0 0.04684 ± 0.04919
pull
Entries 84
Mean 69.14
Std Dev 0
pull1D
Entries 84
Mean 0.0956
Std Dev 1.11

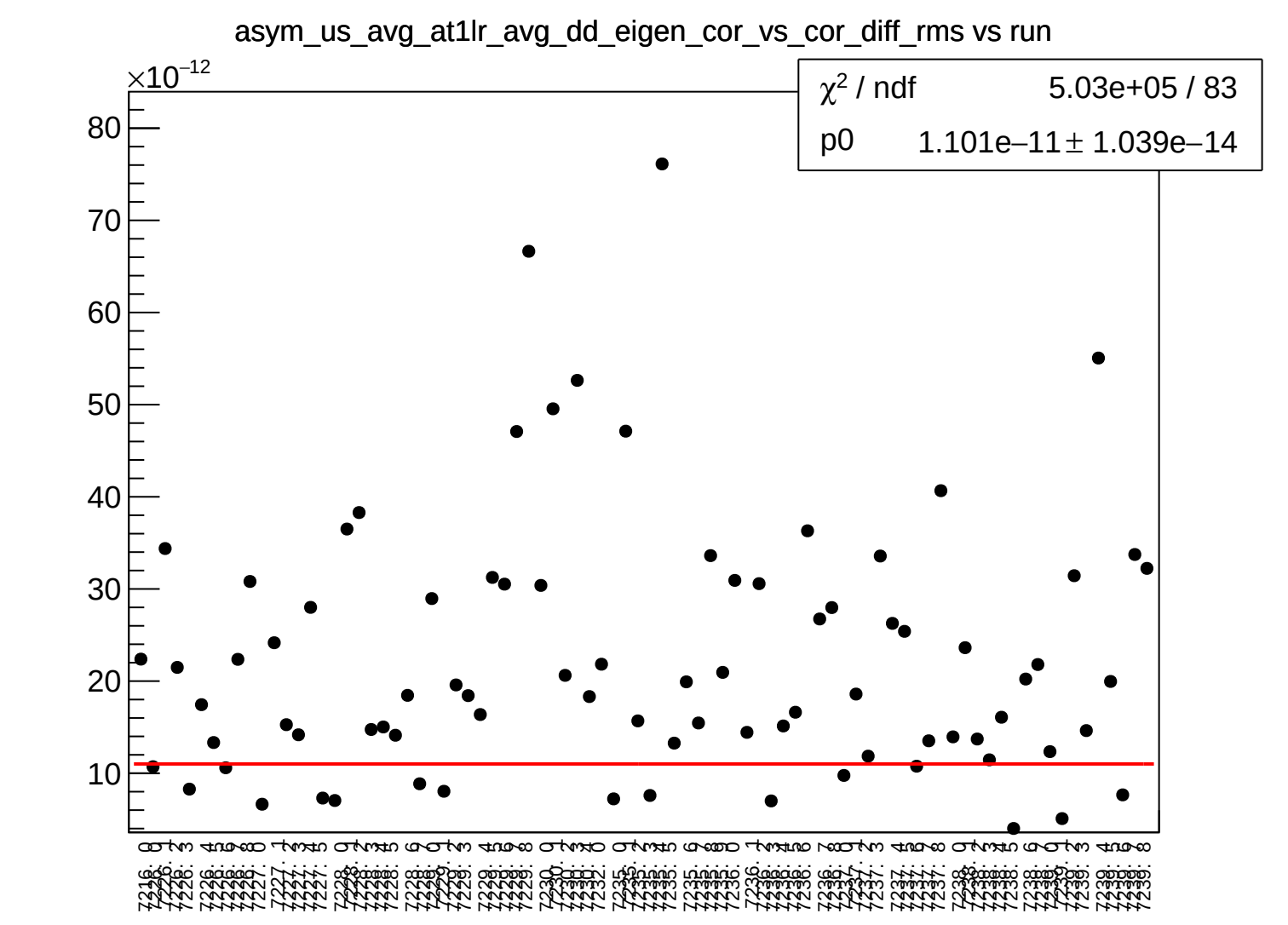

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.965e+05 / 83
p0 41.6 ± 0.03479
100
90
80
70
60
50
40
30
20

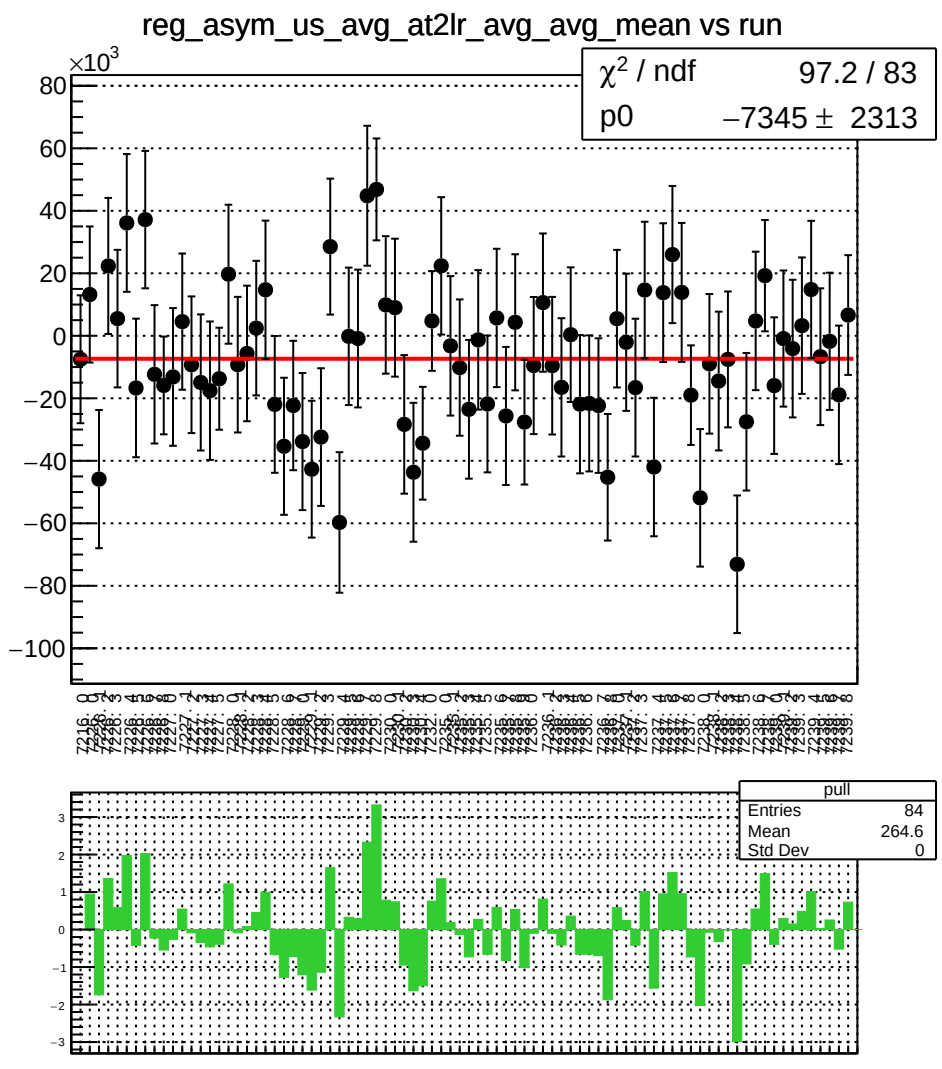

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.3 / 83
p0 0.04684 ± 0.04919
pull
Entries 84
Mean 69.14
Std Dev 0
pull1D
Entries 84
Mean 0.0956
Std Dev 1.11

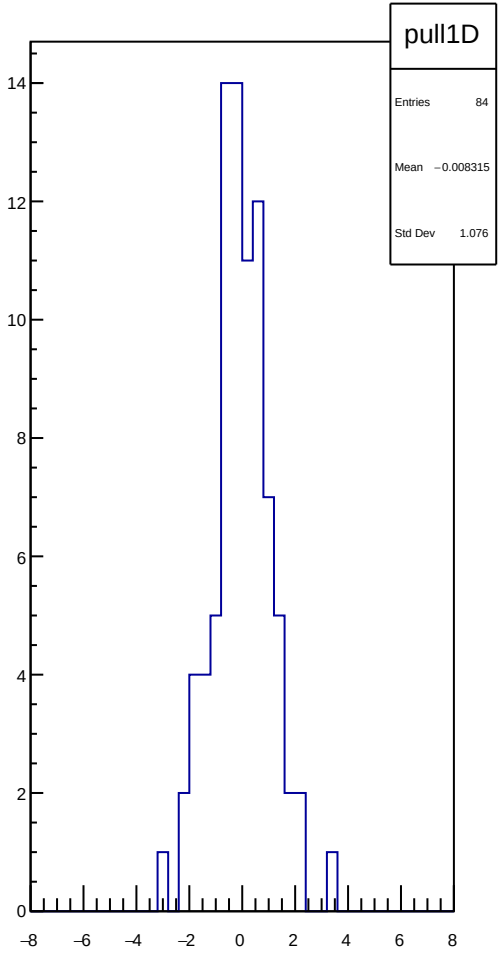

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.965e+05 / 83
p0 41.6 ± 0.03479
100
90
80
70
60
50
40
30
20

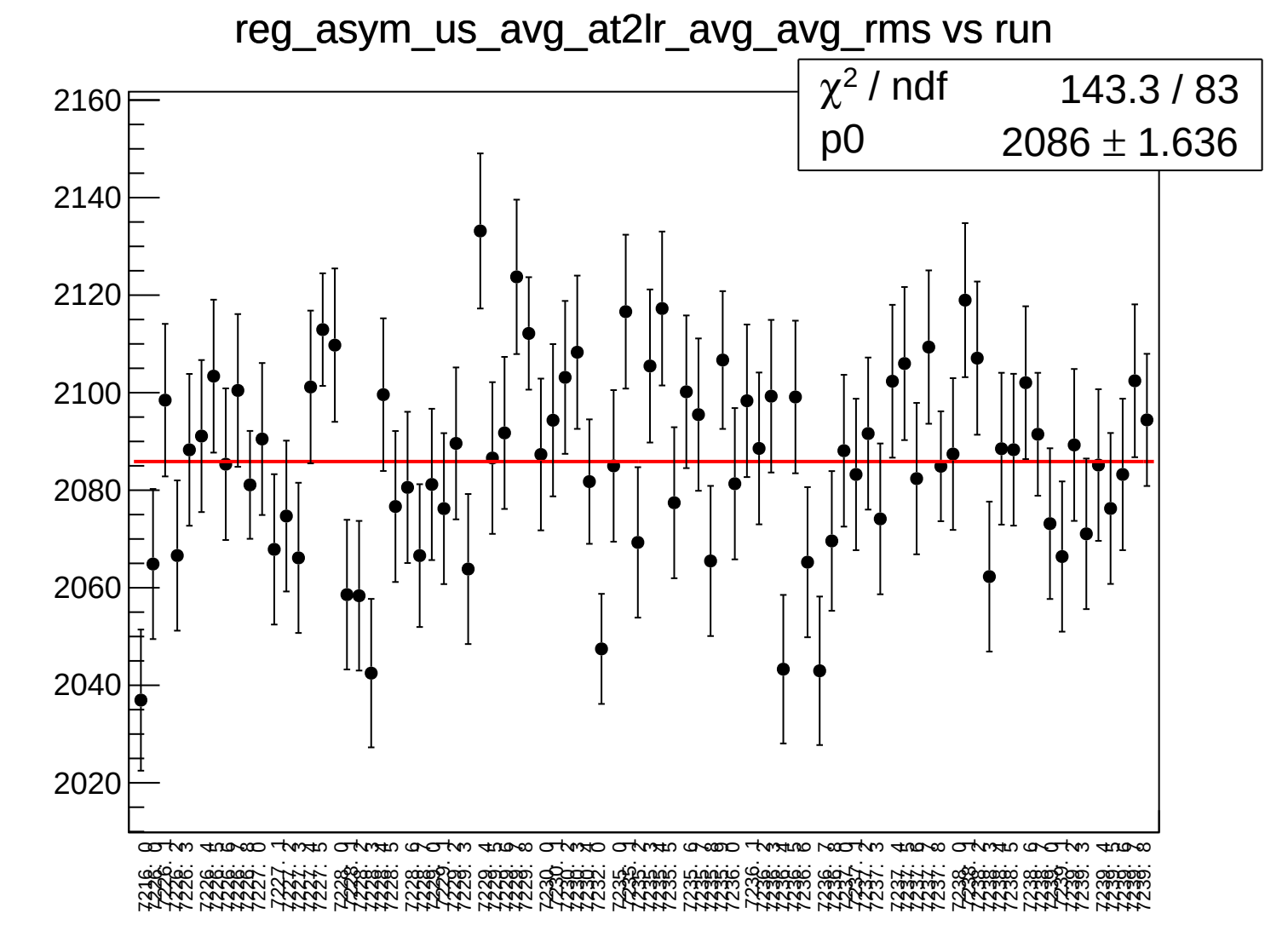

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.21 / 83
p0 2.094e−14 ± 1.469e−14
pull
Entries 84
Mean 47.62
Std Dev 0

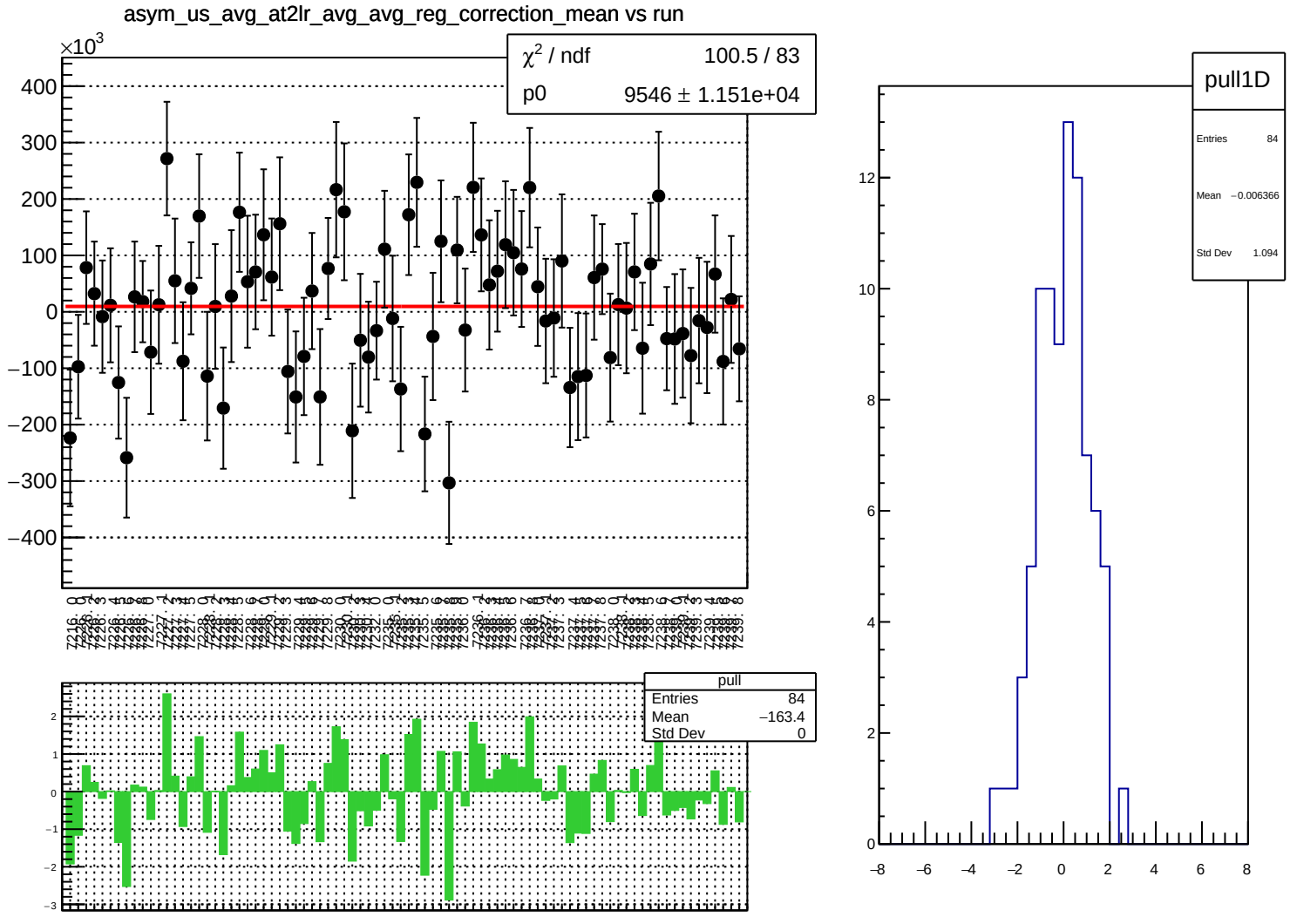

pull1D
Entries 84
Mean −0.009552
Std Dev 1.042

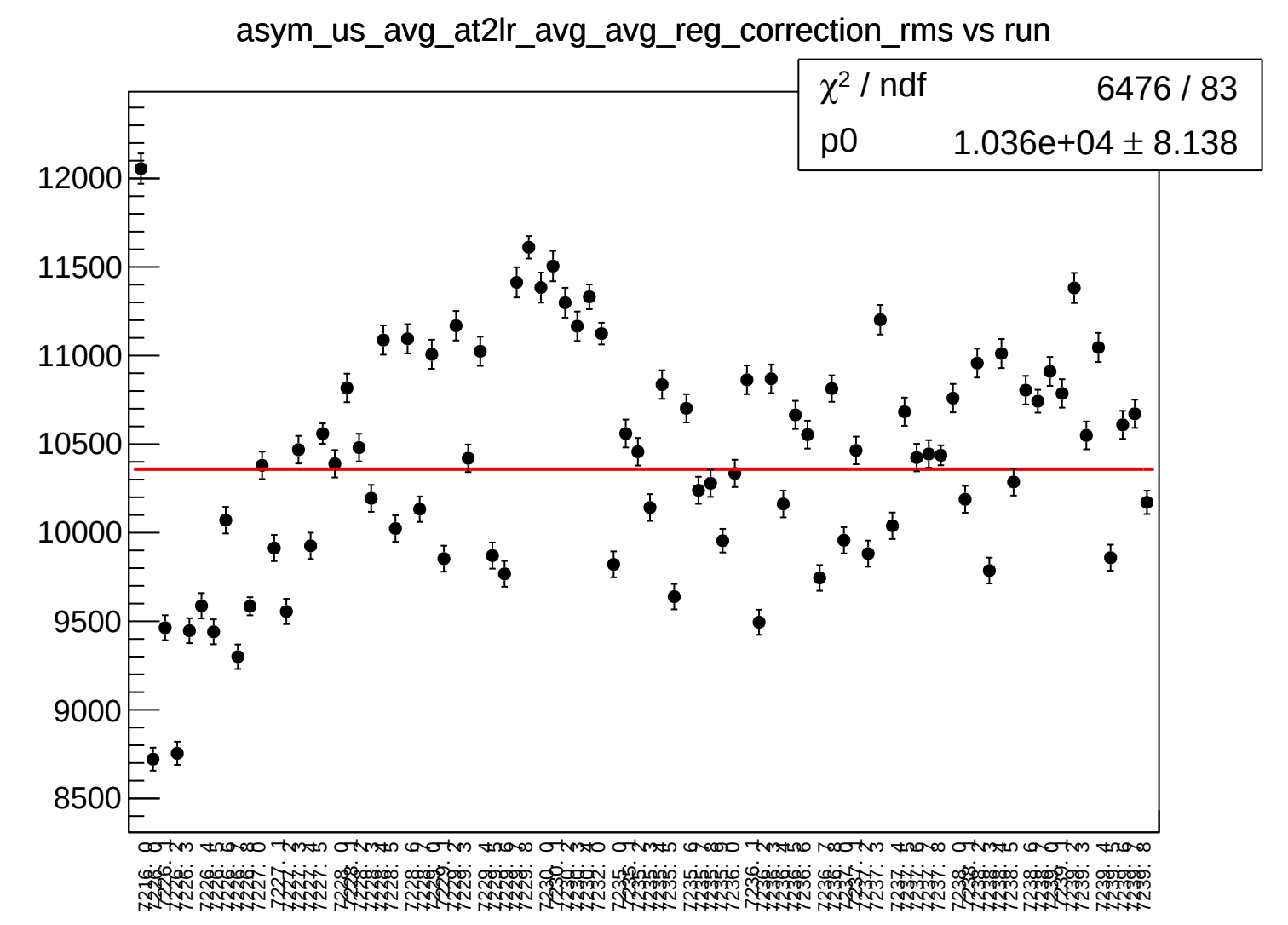

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.03e+05 / 83
p0 1.101e−11 ± 1.039e−14
80
70
60
50
40
30
20
10

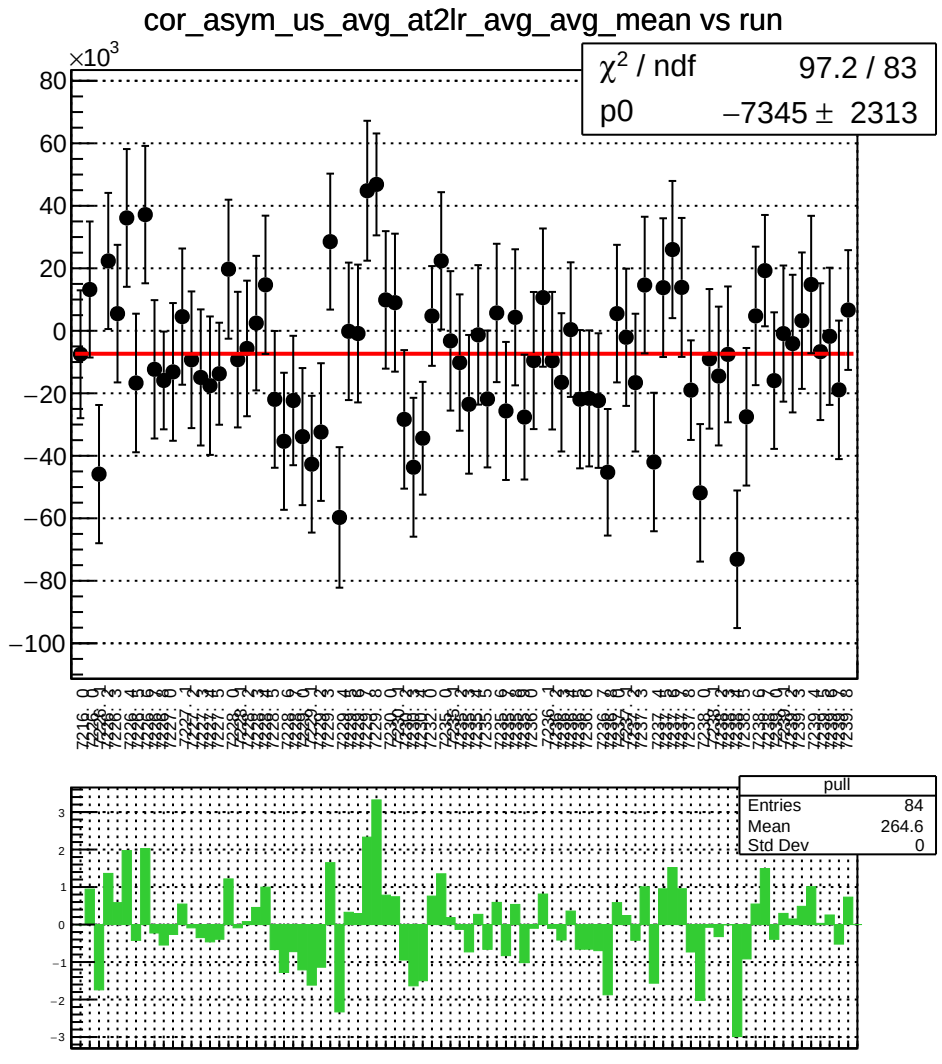

reg_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 97.2 / 83
p0 −7345 ± 2313
pull
Entries 84
Mean 264.6
Std Dev 0

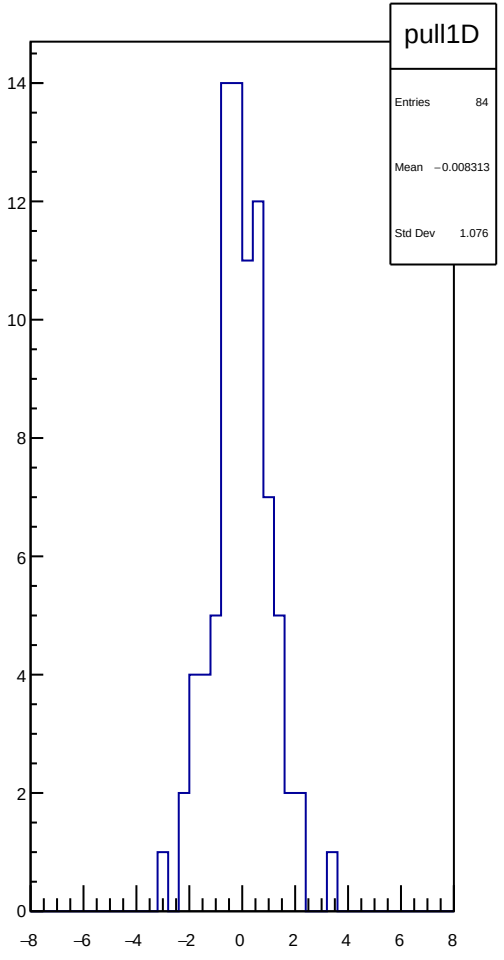

pull1D
Entries 84
Mean −0.008315
Std Dev 1.076

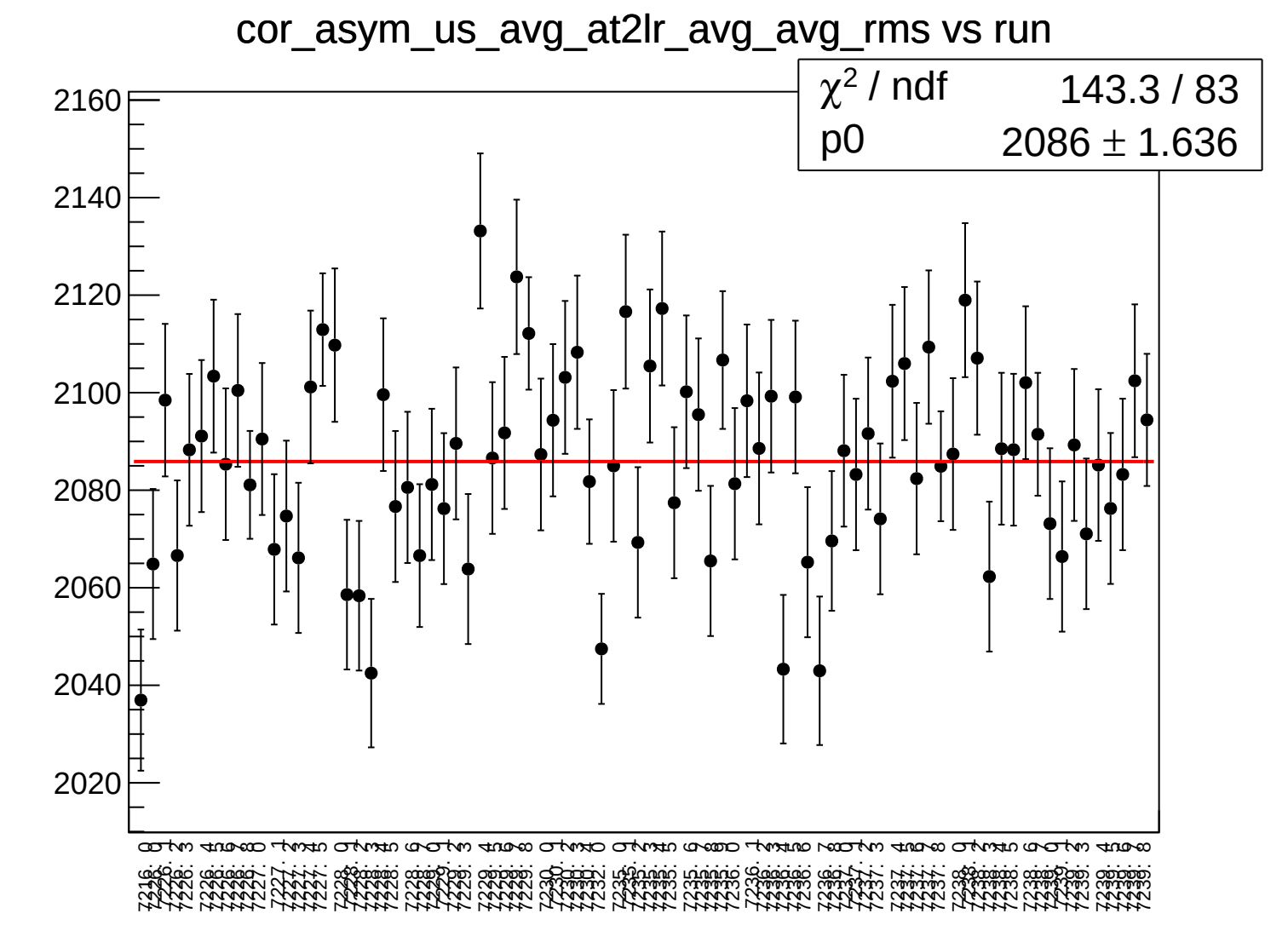

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 143.3 / 83
p0 2086 ± 1.636
2160
2140
2120
2100
2080
2060
2040
2020

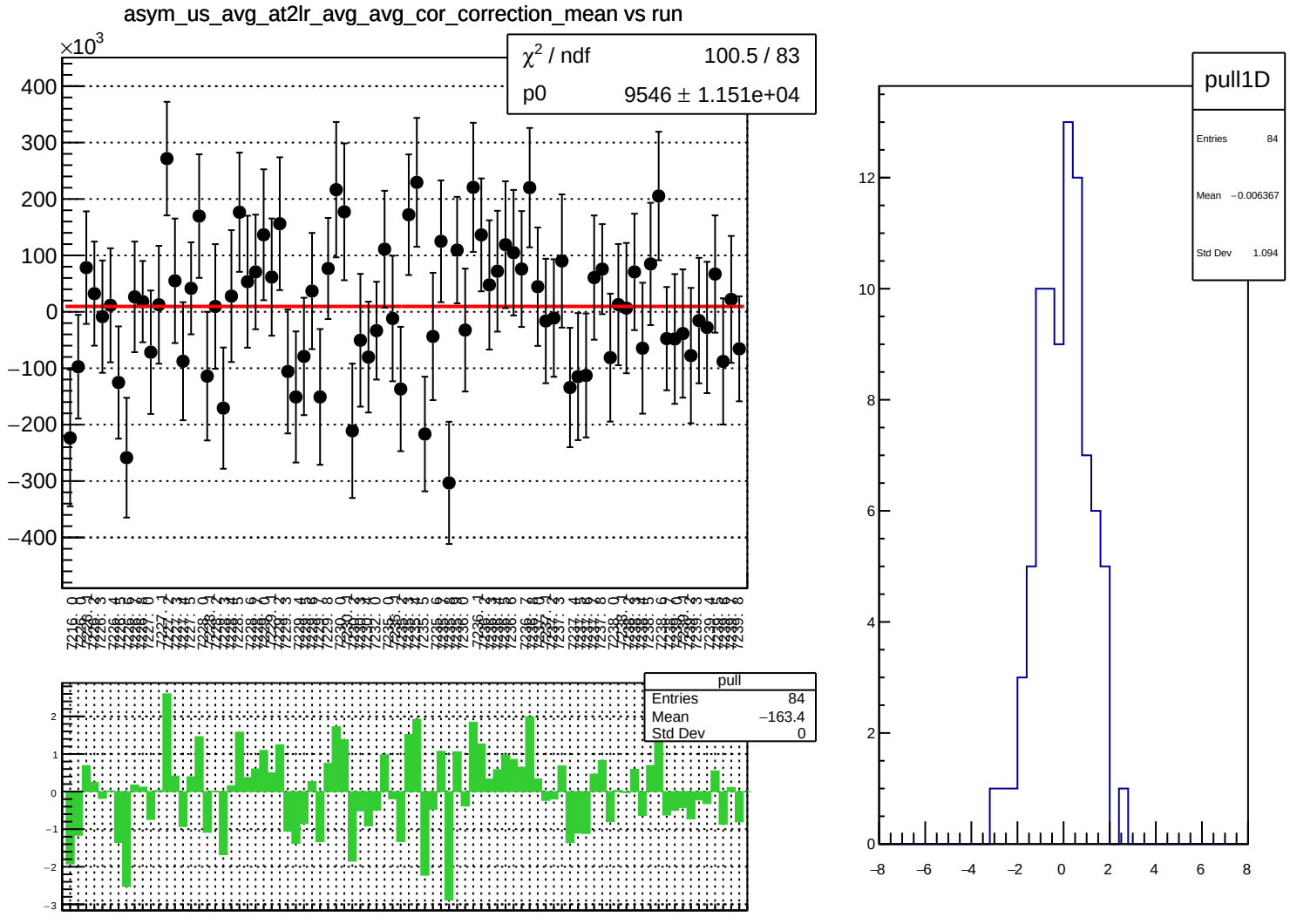

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 100.5 / 83
p0 9546 ± 1.151e+04
pull
Entries 84
Mean −163.4
Std Dev 0
pull1D
Entries 84
Mean −0.006366
Std Dev 1.094

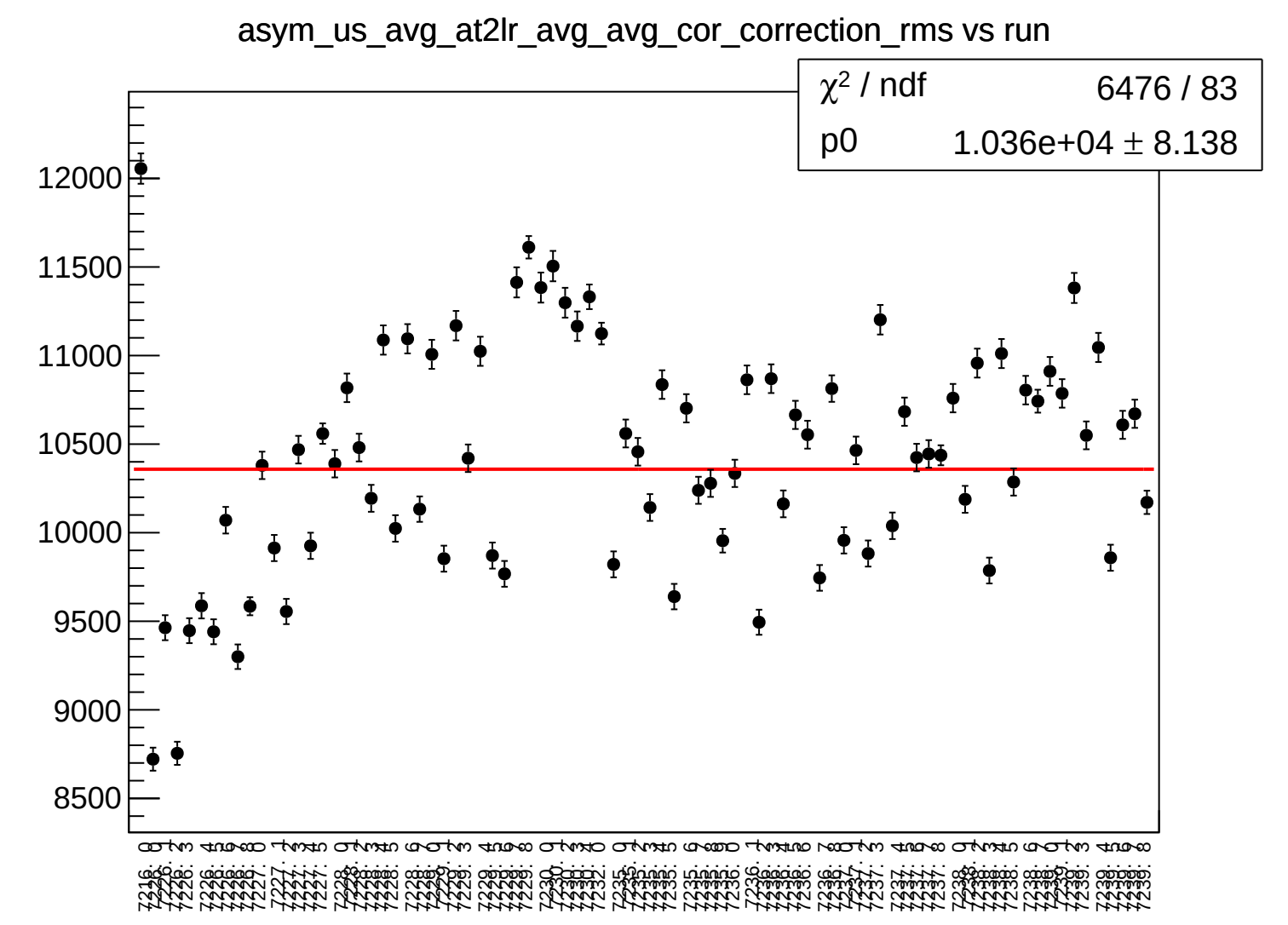

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 6476 / 83
p0 1.036e+04 ± 8.138
12000
11500
11000
10500
10000
9500
9000
8500

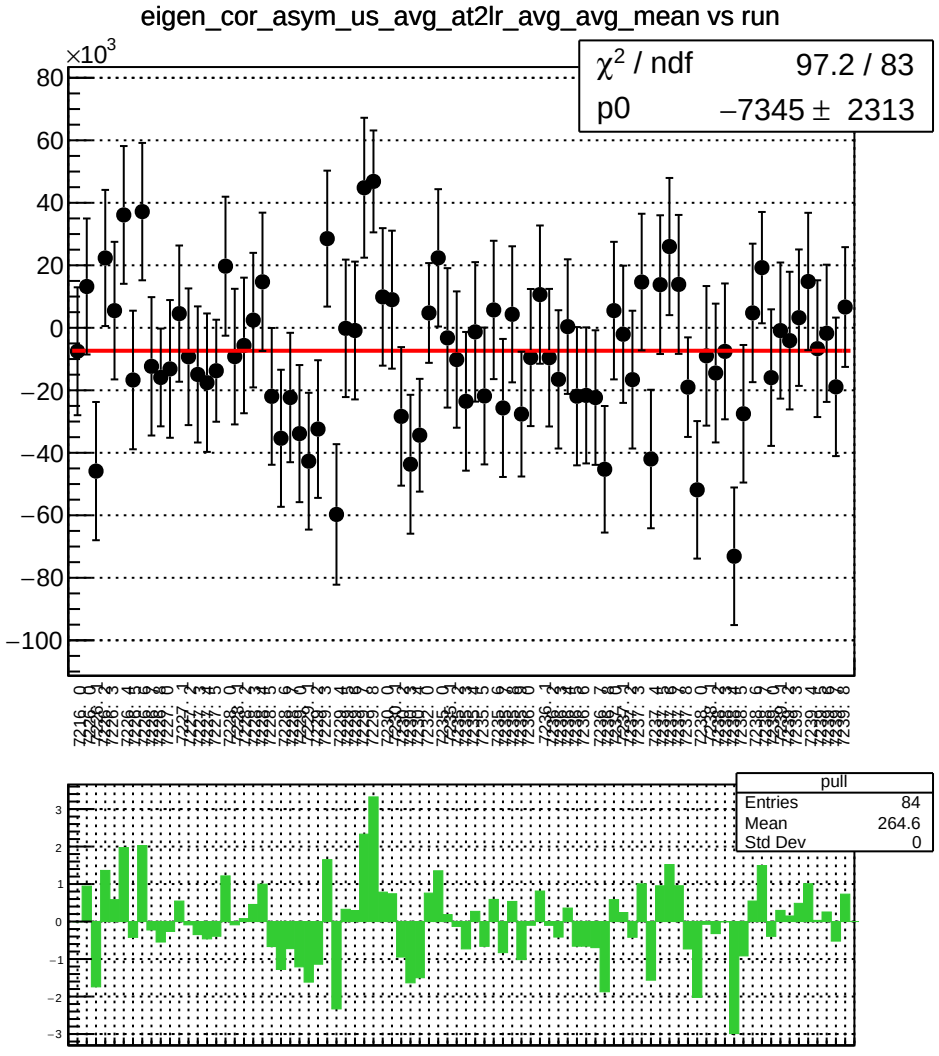

cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 97.2 / 83
p0 −7345 ± 2313
pull
Entries 84
Mean 264.6
Std Dev 0

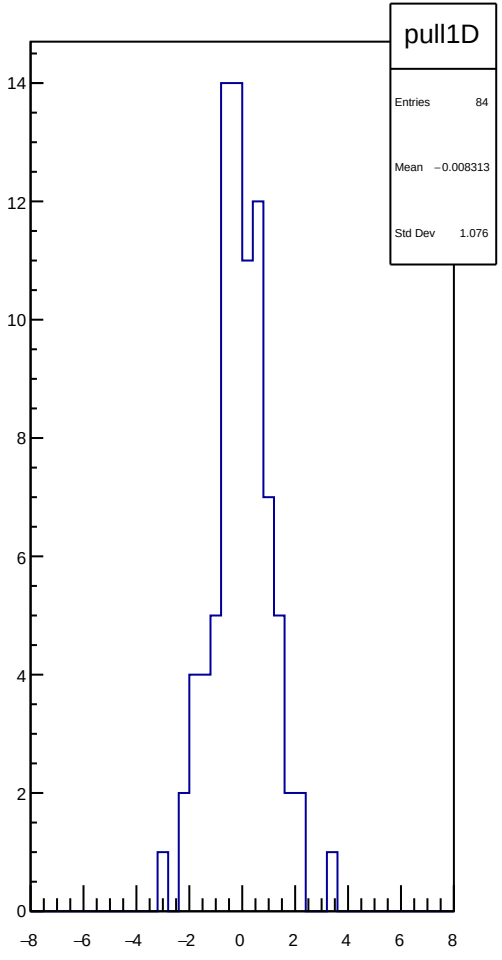

pull1D
Entries 84
Mean −0.008313
Std Dev 1.076

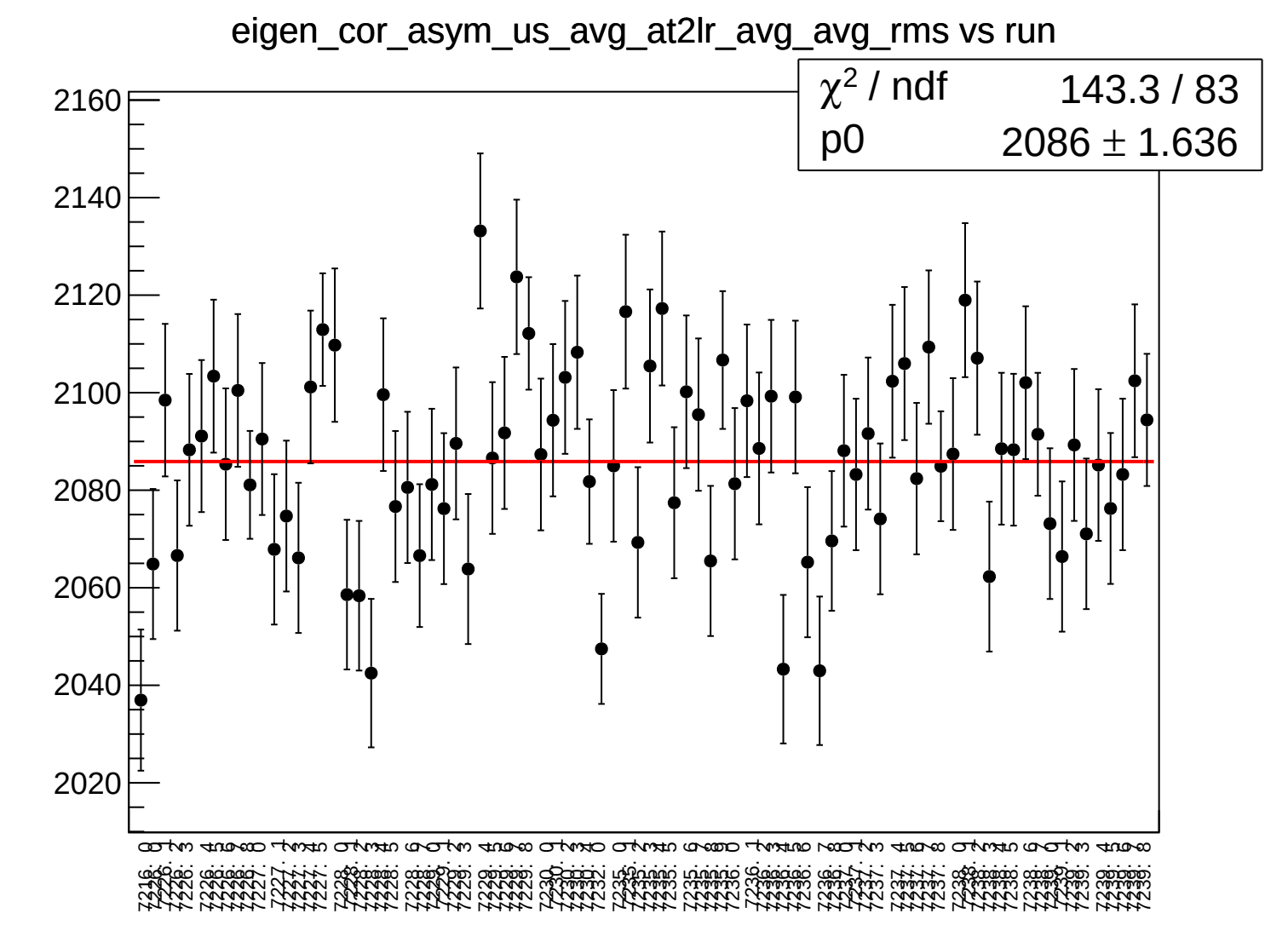

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 143.3 / 83
p0 2086 ± 1.636
2160
2140
2120
2100
2080
2060
2040
2020

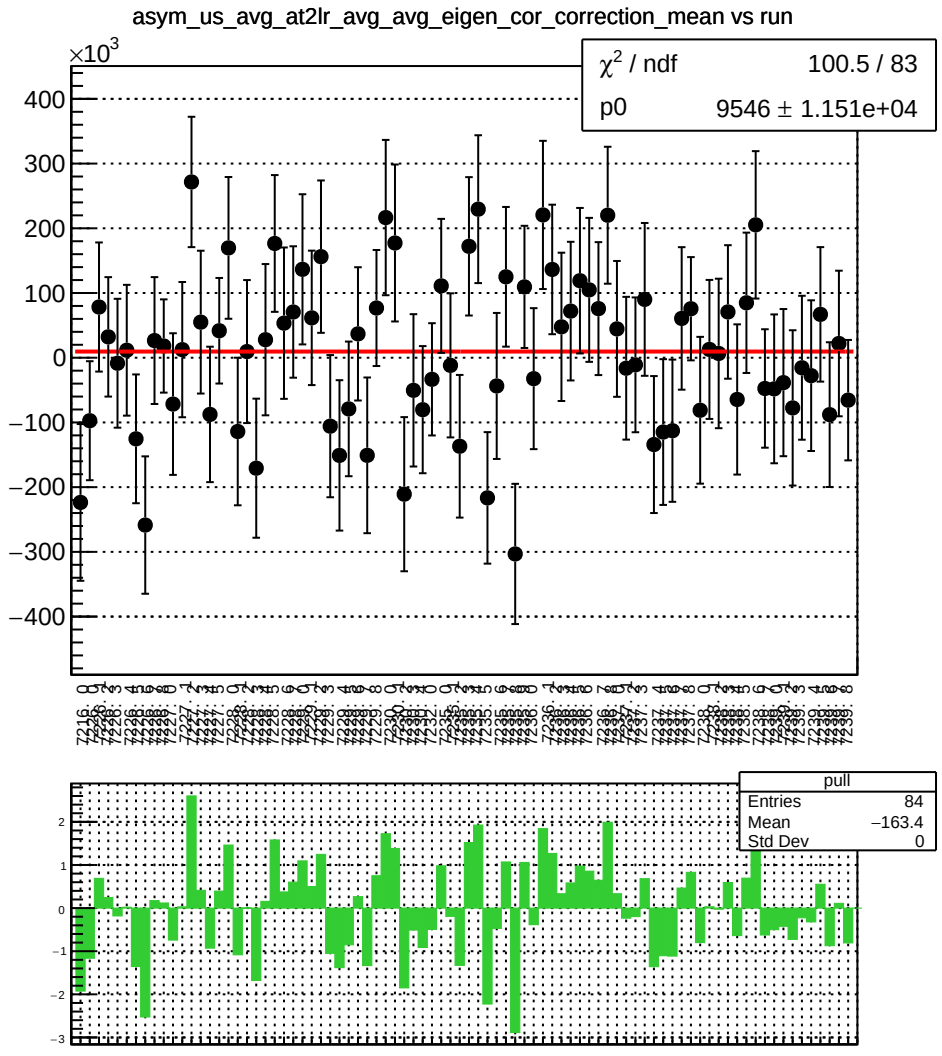

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 100.5 / 83
p0 9546 ± 1.151e+04
pull
Entries 84
Mean −163.4
Std Dev 0
pull1D
Entries 84
Mean −0.006367
Std Dev 1.094

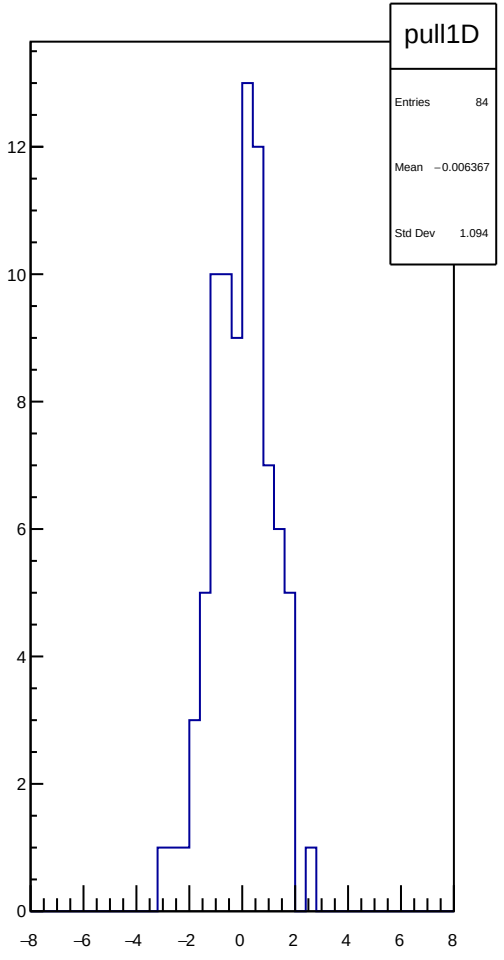

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 6476 / 83
p0 1.036e+04 ± 8.138
12000
11500
11000
10500
10000
9500
9000
8500

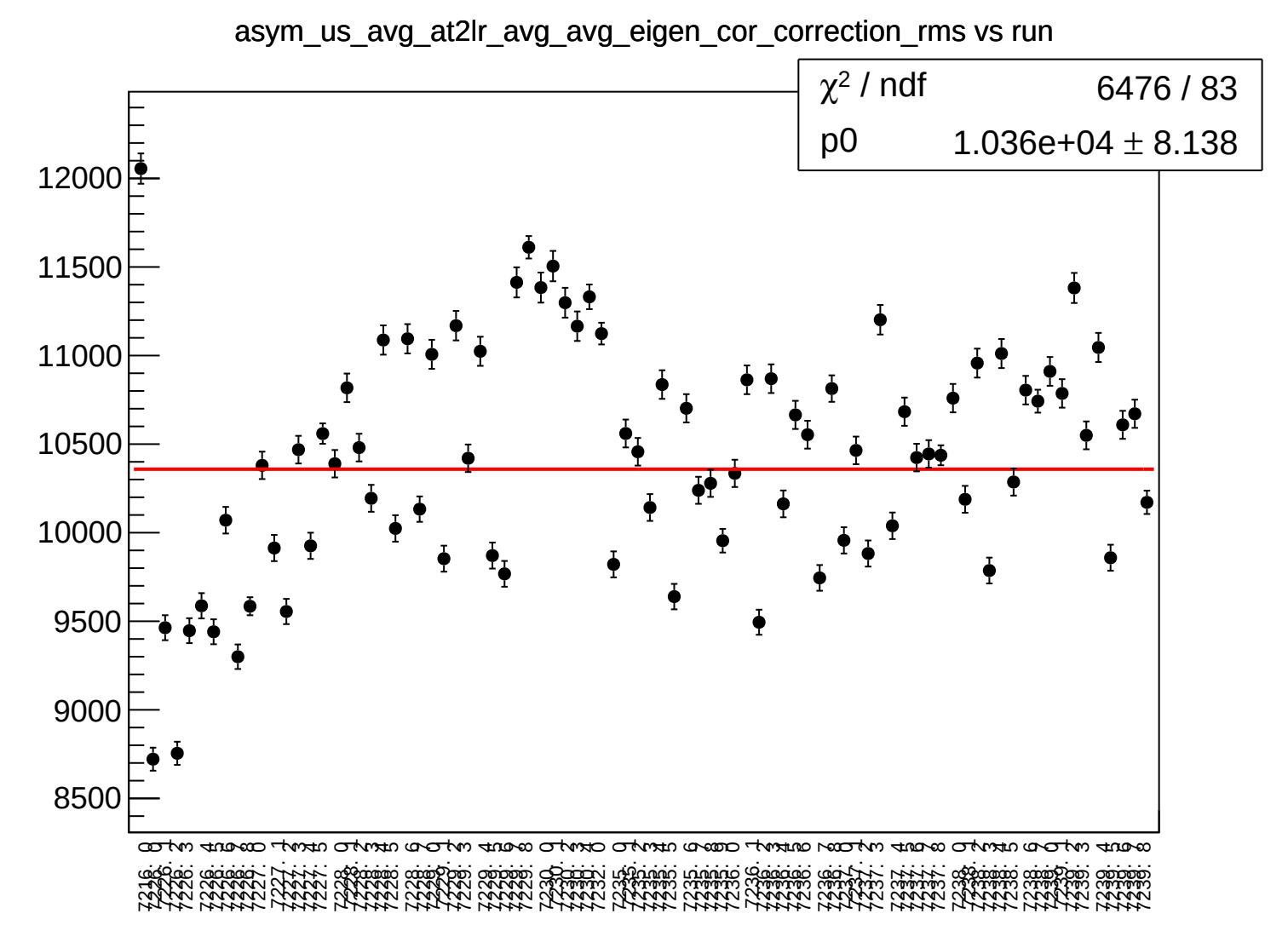

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 97.2 / 83
p0 −7345 ± 2313
pull
Entries 84
Mean 264.6
Std Dev 0

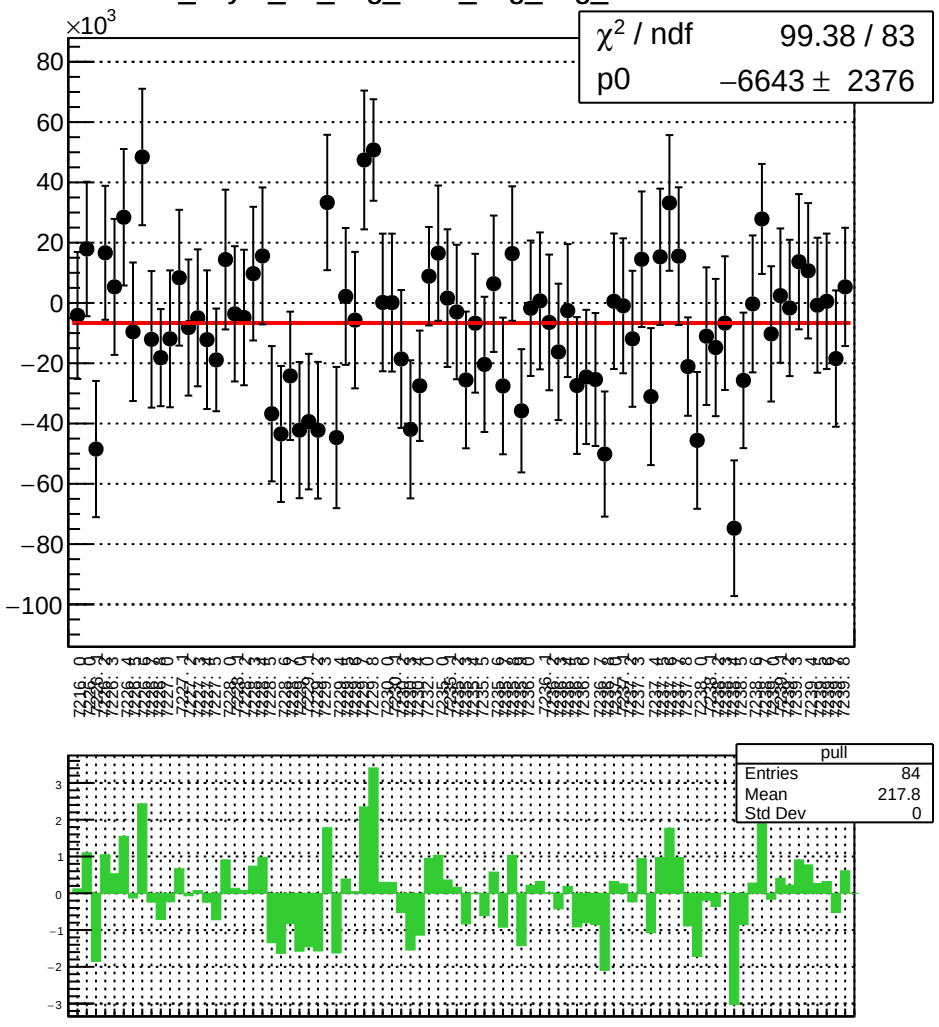

pull1D
Entries 84
Mean −0.008313
Std Dev 1.076

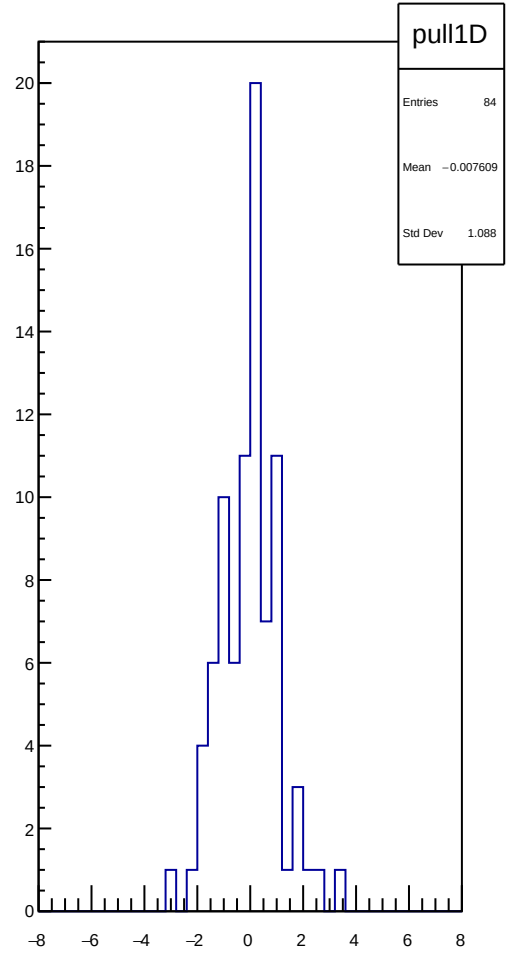

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 143.3 / 83
p0 2086 ± 1.636
2160
2140
2120
2100
2080
2060
2040
2020

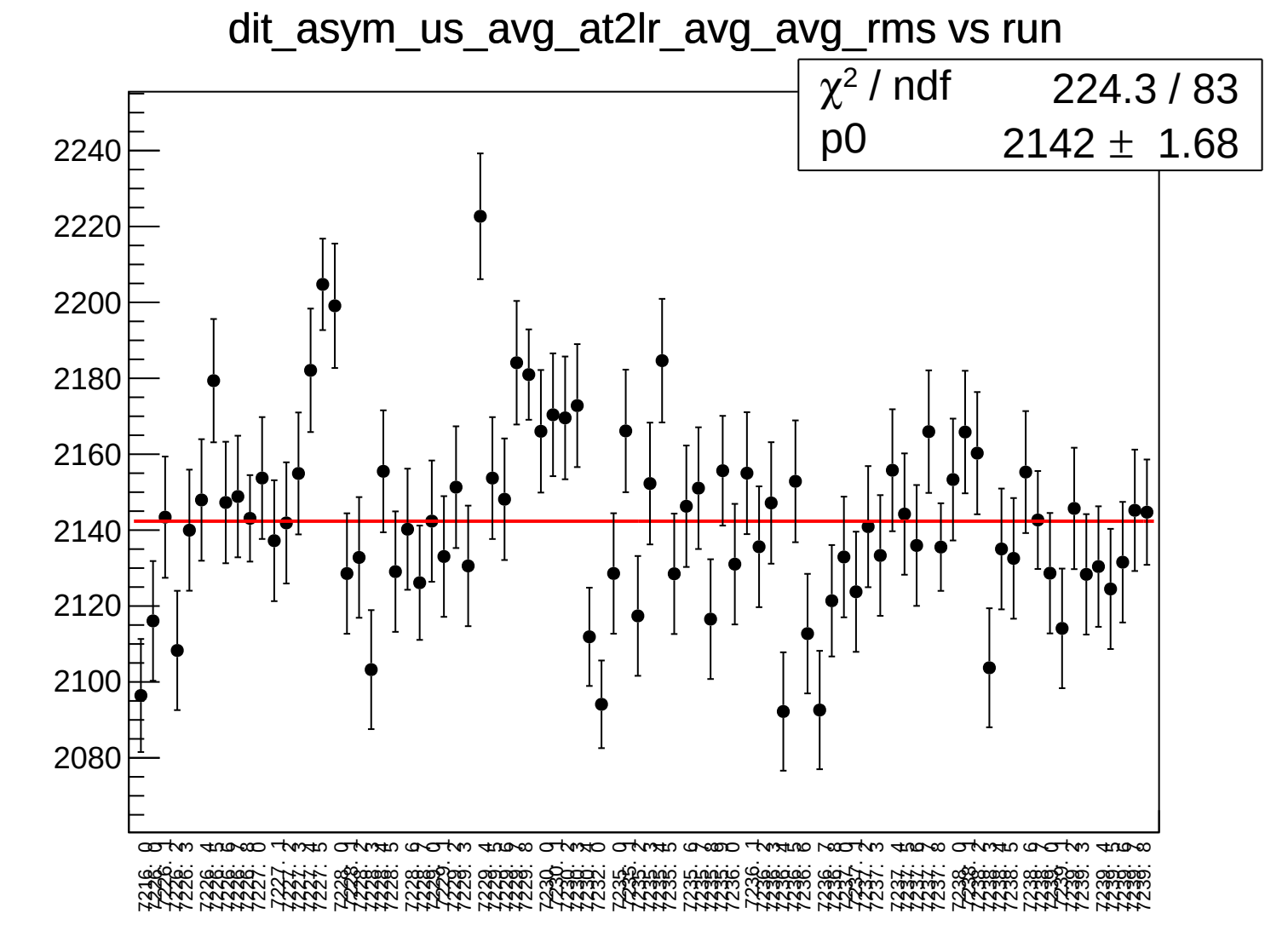

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 100.5 / 83
p0 9546 ± 1.151e+04
pull
Entries 84
Mean −163.4
Std Dev 0

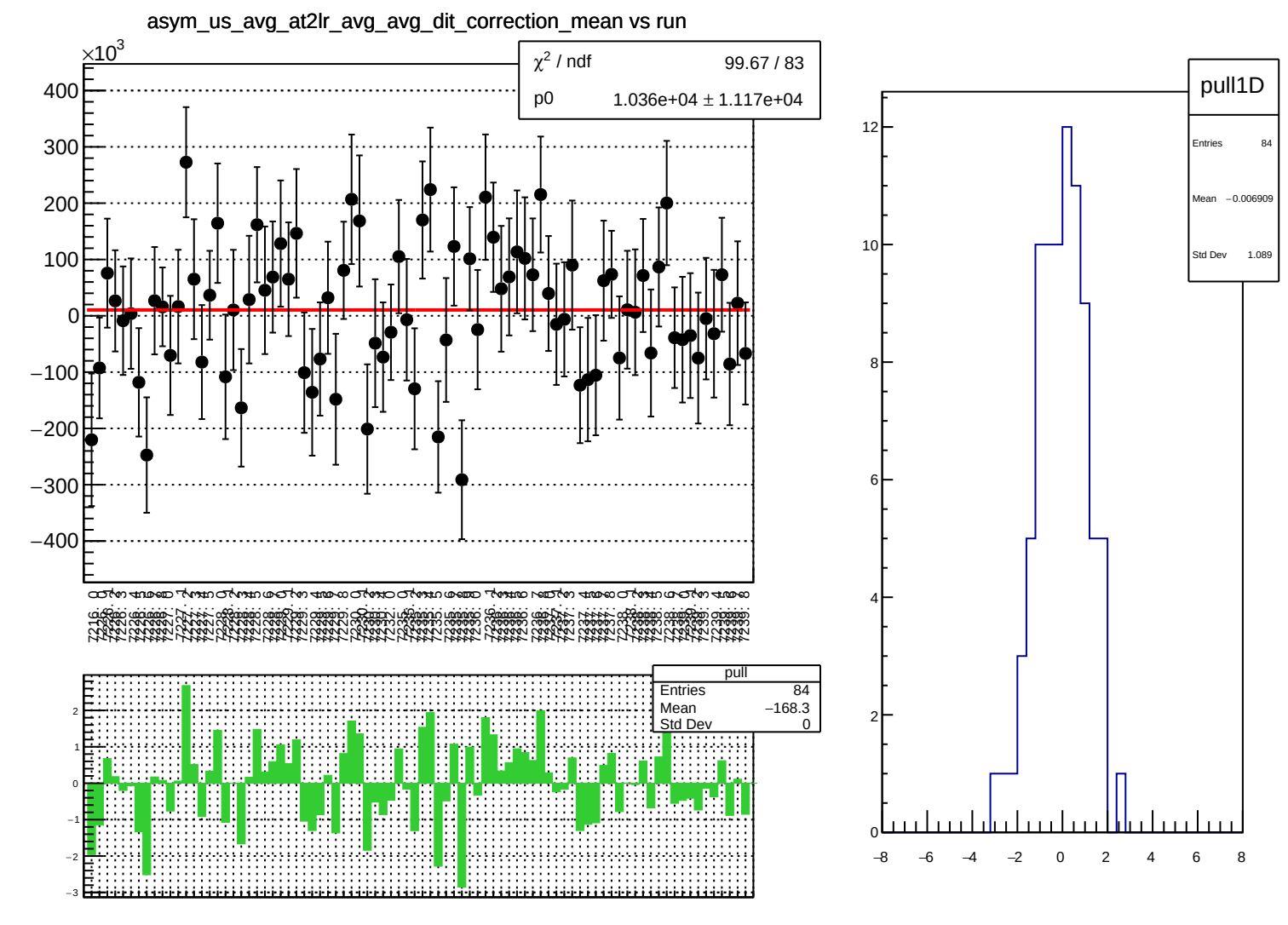

pull1D
Entries 84
Mean −0.006367
Std Dev 1.094

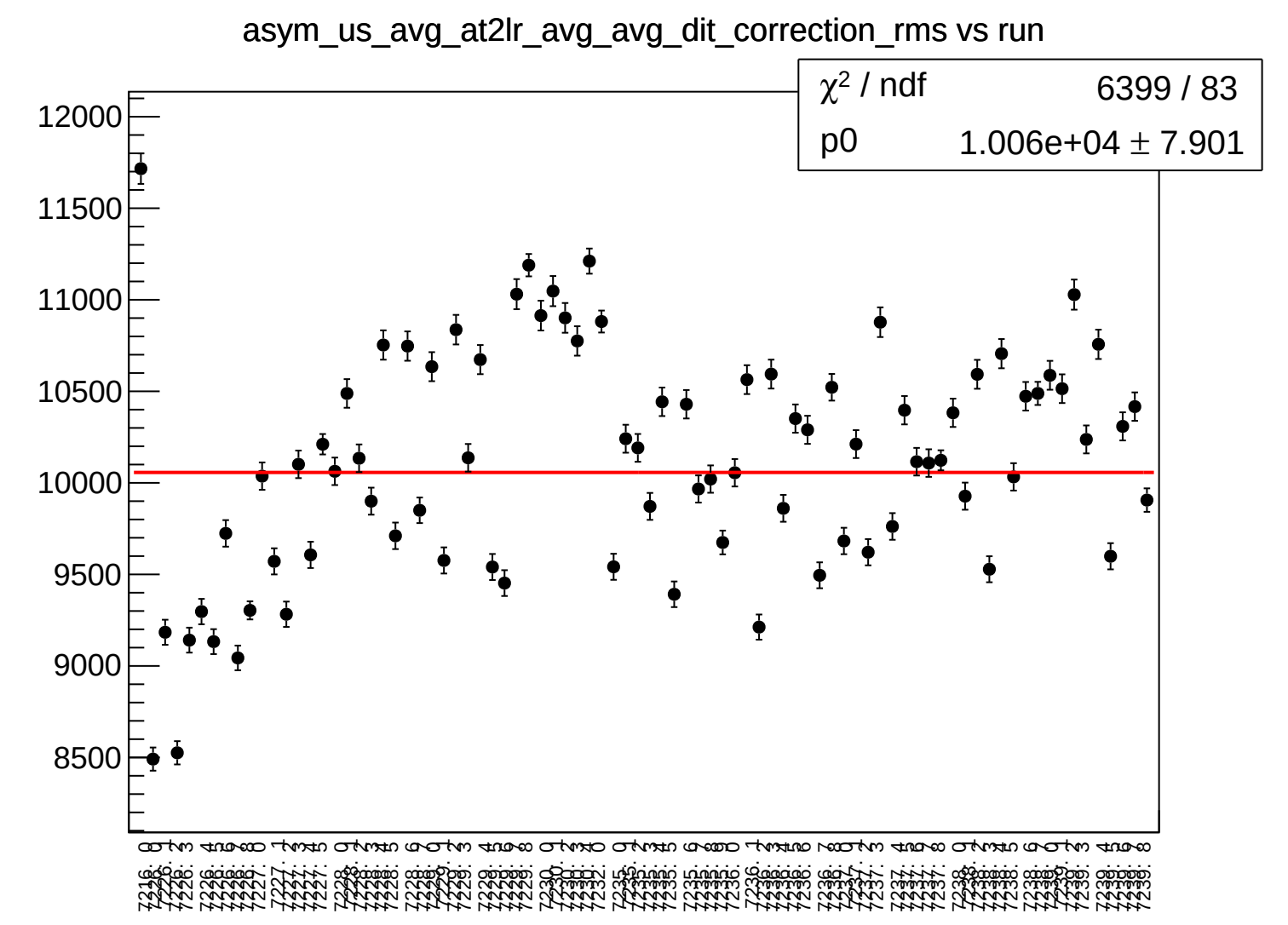

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 6476 / 83
p0 1.036e+04 ± 8.138
12000
11500
11000
10500
10000
9500
9000
8500

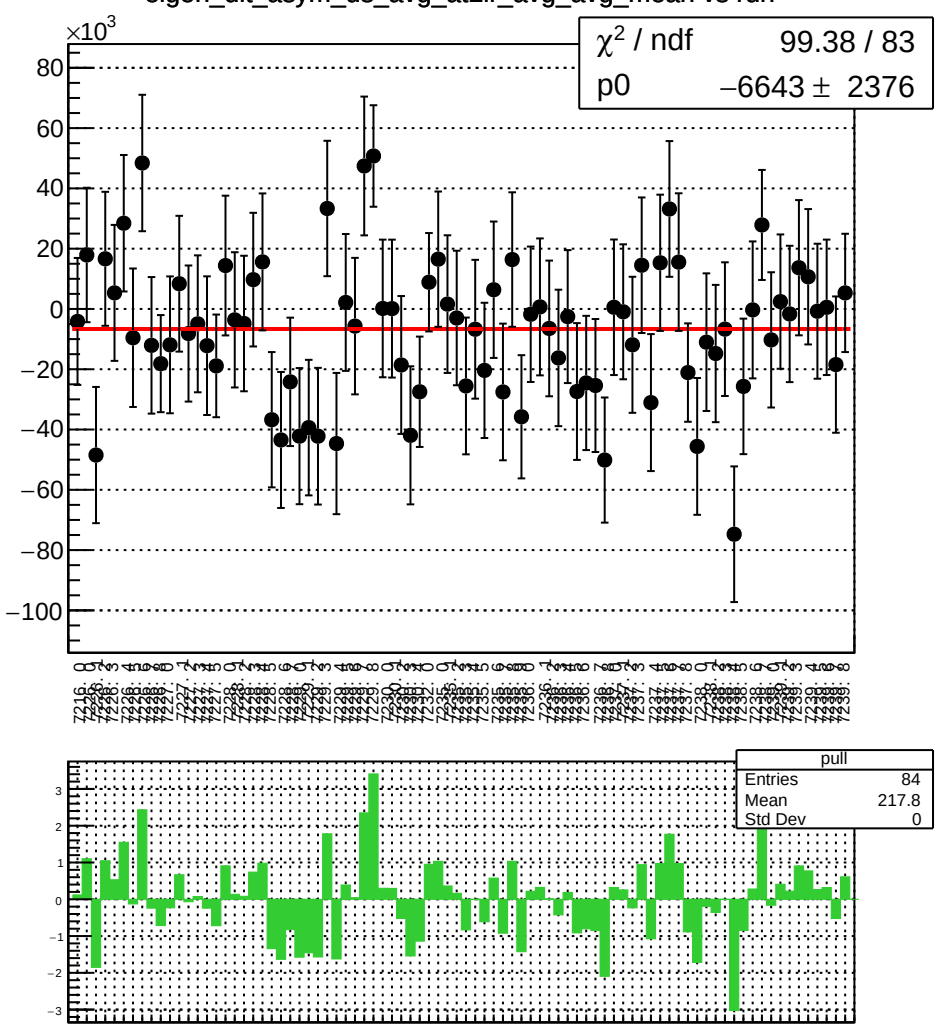

dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 99.38 / 83
p0 −6643 ± 2376
pull
Entries 84
Mean 217.8
Std Dev 0

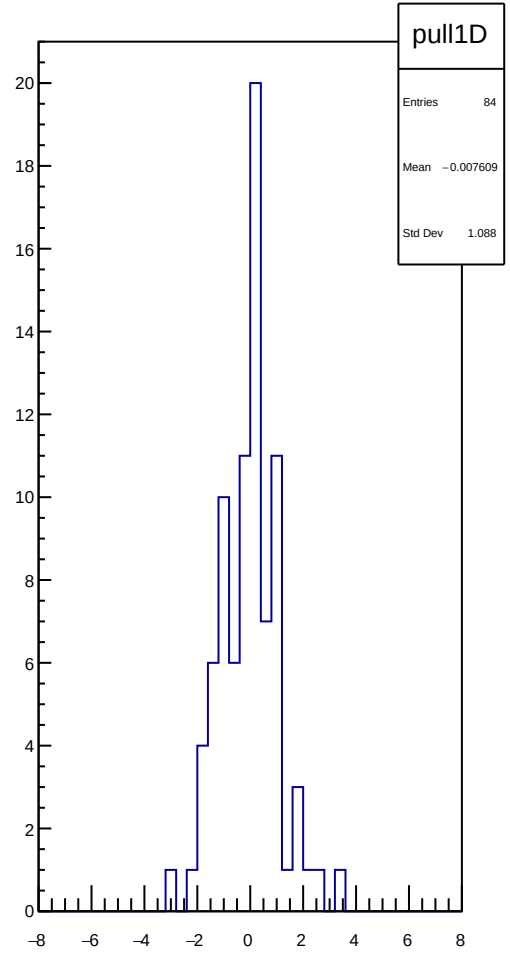

pull1D
Entries 84
Mean −0.007609
Std Dev 1.088

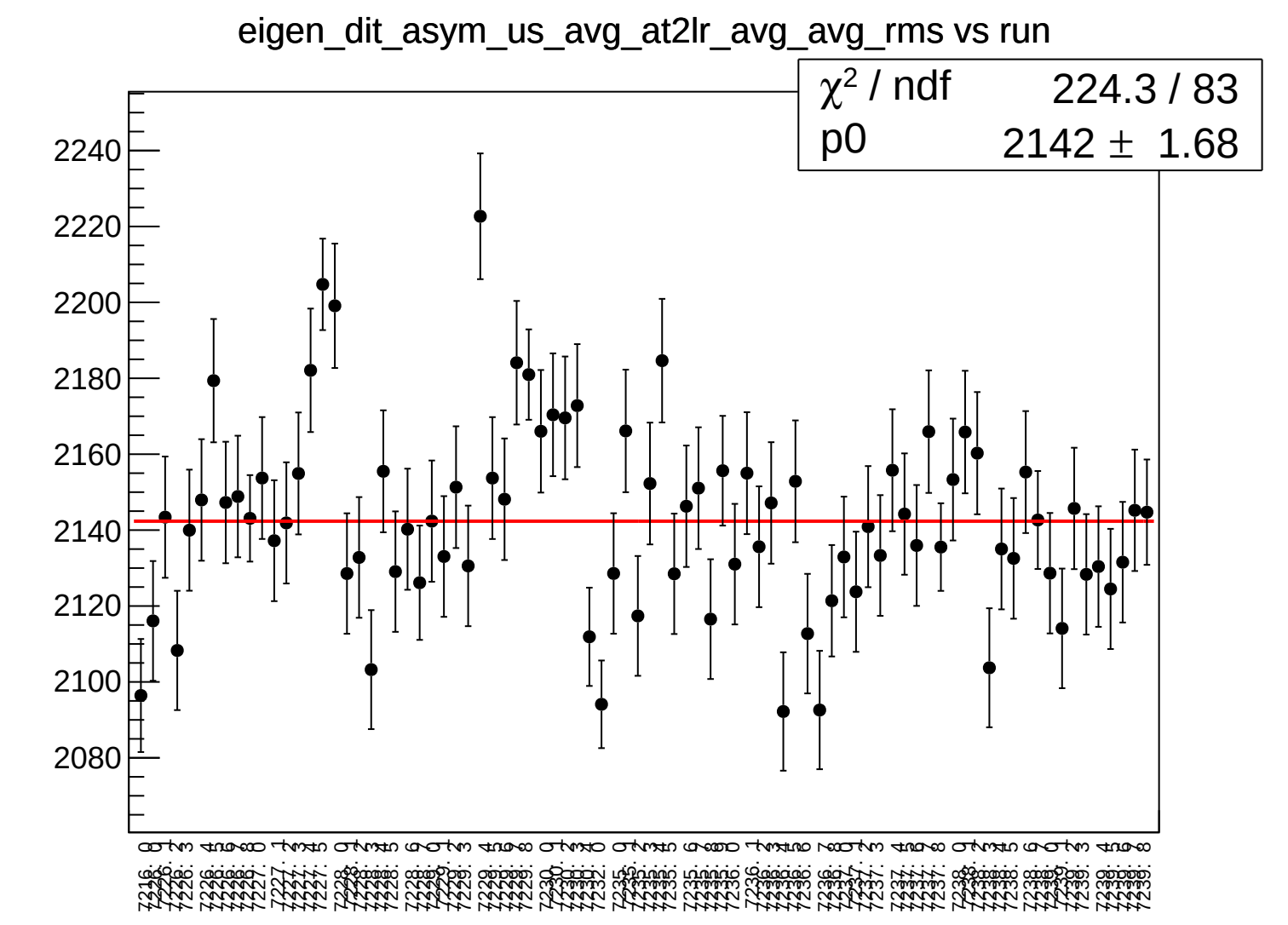

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 224.3 / 83
p0 2142 ± 1.68
2240
2220
2200
2180
2160
2140
2120
2100
2080

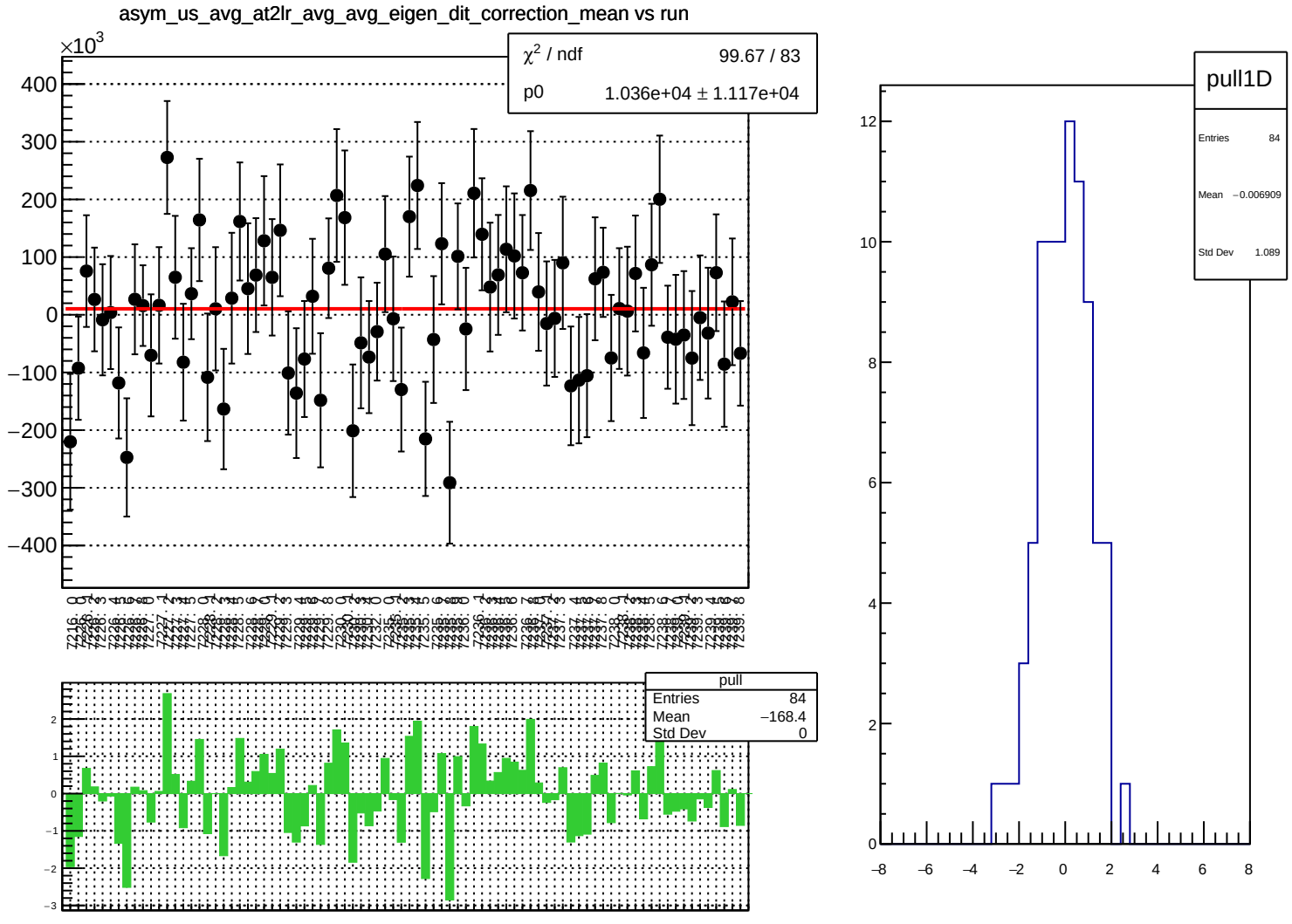

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 99.67 / 83
p0 1.036e+04 ± 1.117e+04
pull
Entries 84
Mean −168.3
Std Dev 0
pull1D
Entries 84
Mean −0.006909
Std Dev 1.089

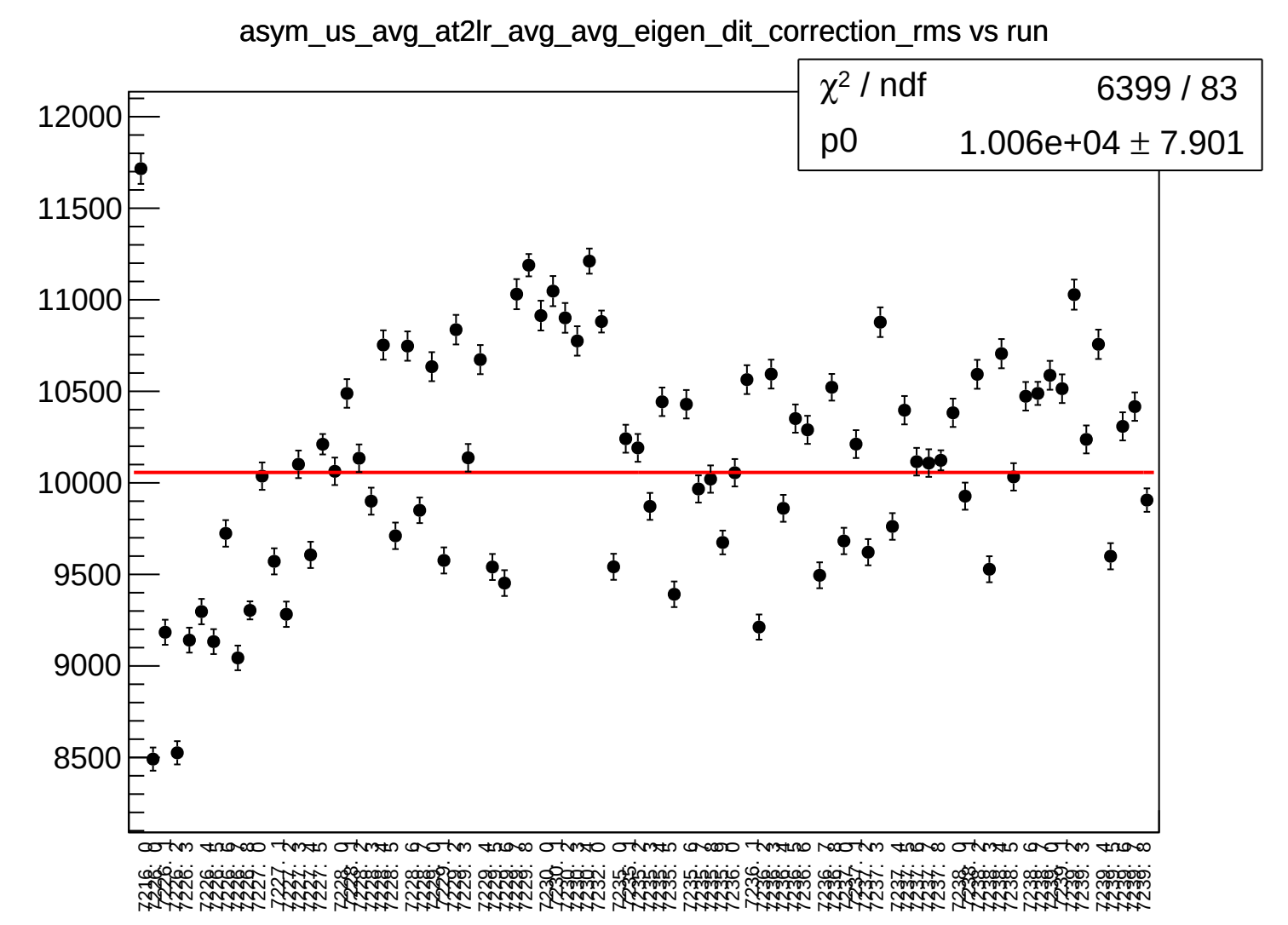

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 6399 / 83
p0 1.006e+04 ± 7.901
12000
11500
11000
10500
10000
9500
9000
8500

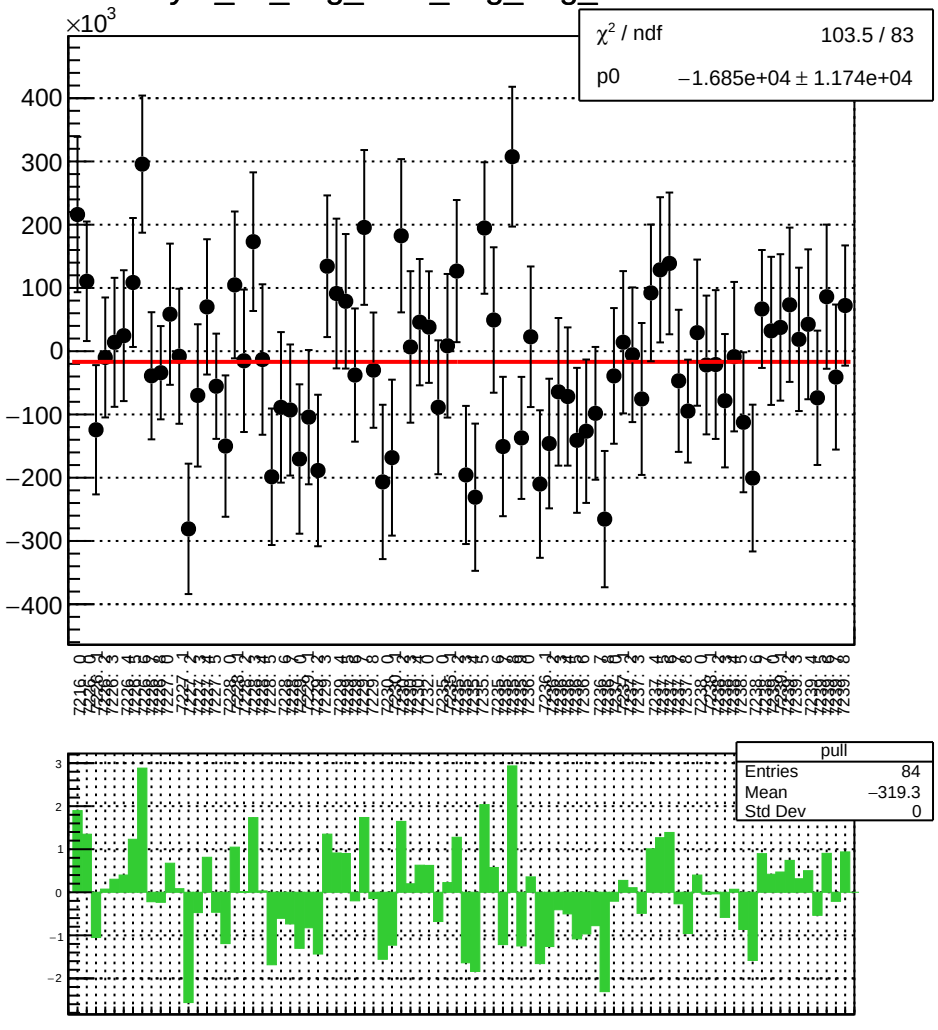

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 99.38 / 83
p0 −6643 ± 2376
pull
Entries 84
Mean 217.8
Std Dev 0

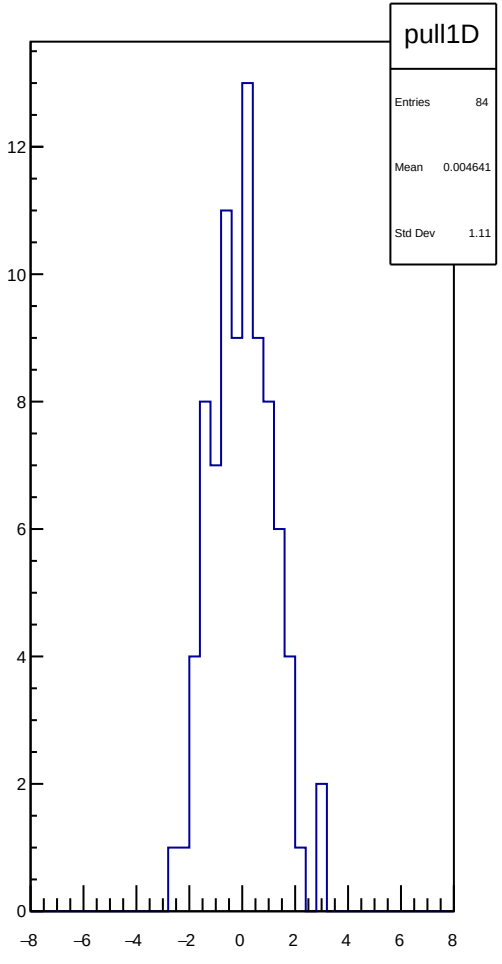

pull1D
Entries 84
Mean −0.007609
Std Dev 1.088

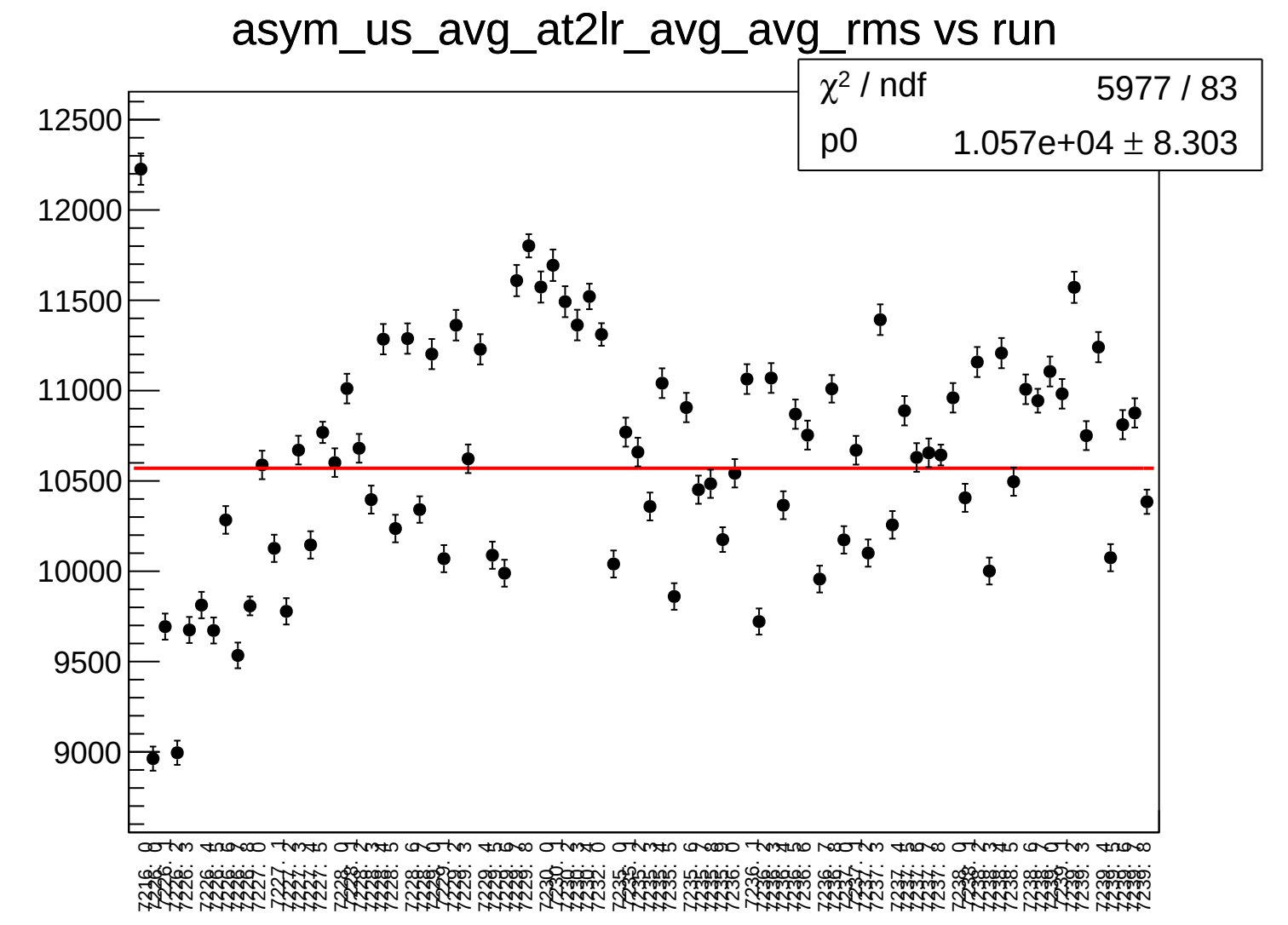

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 224.3 / 83
p0 2142 ± 1.68
2240
2220
2200
2180
2160
2140
2120
2100
2080

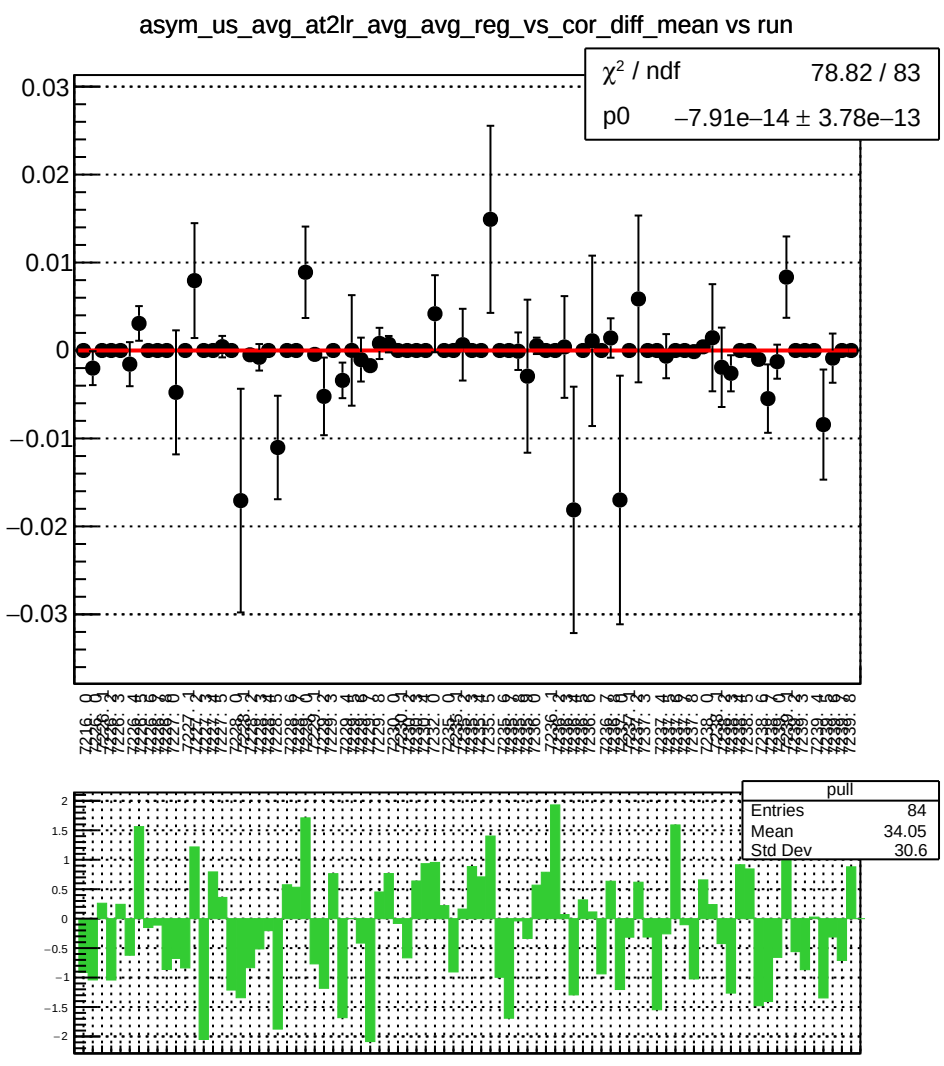

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 99.67 / 83
p0 1.036e+04 ± 1.117e+04
pull
Entries 84
Mean −168.4
Std Dev 0
pull1D
Entries 84
Mean −0.006909
Std Dev 1.089

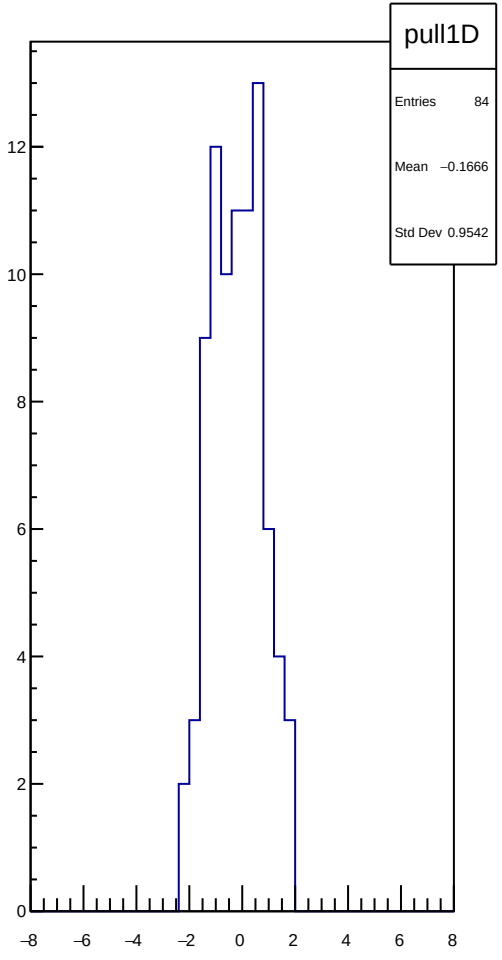

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 6399 / 83
p0 1.006e+04 ± 7.901
12000
11500
11000
10500
10000
9500
9000
8500

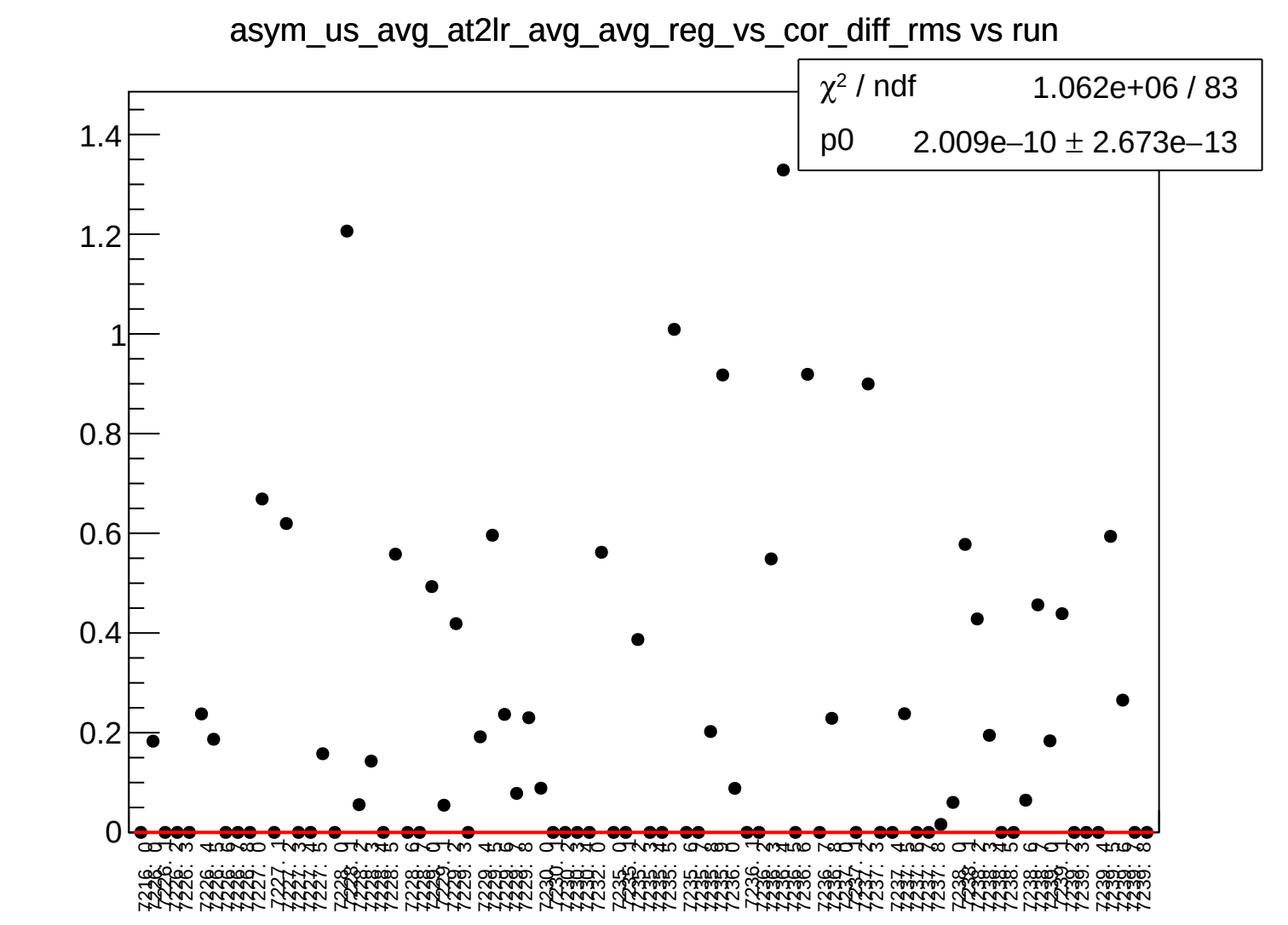

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 103.5 / 83
p0 −1.685e+04 ± 1.174e+04
pull
Entries 84
Mean −319.3
Std Dev 0

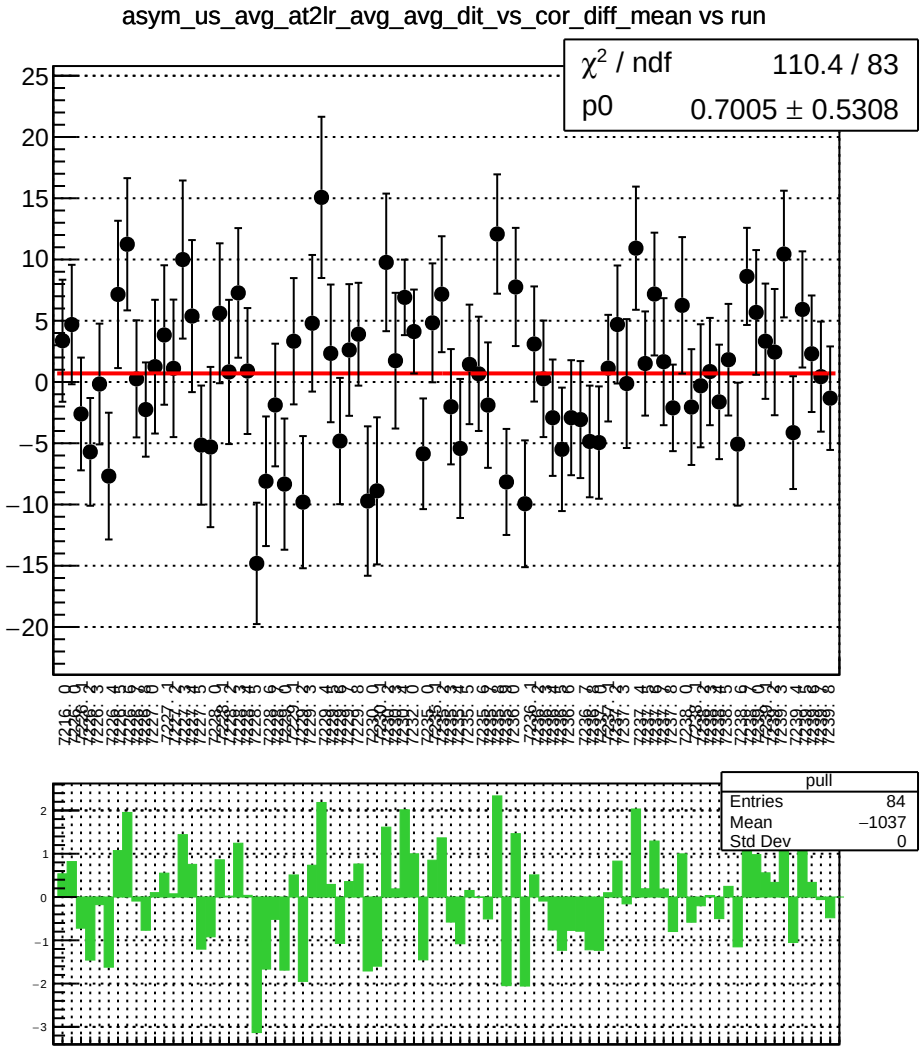

pull1D
Entries 84
Mean 0.004641
Std Dev 1.11

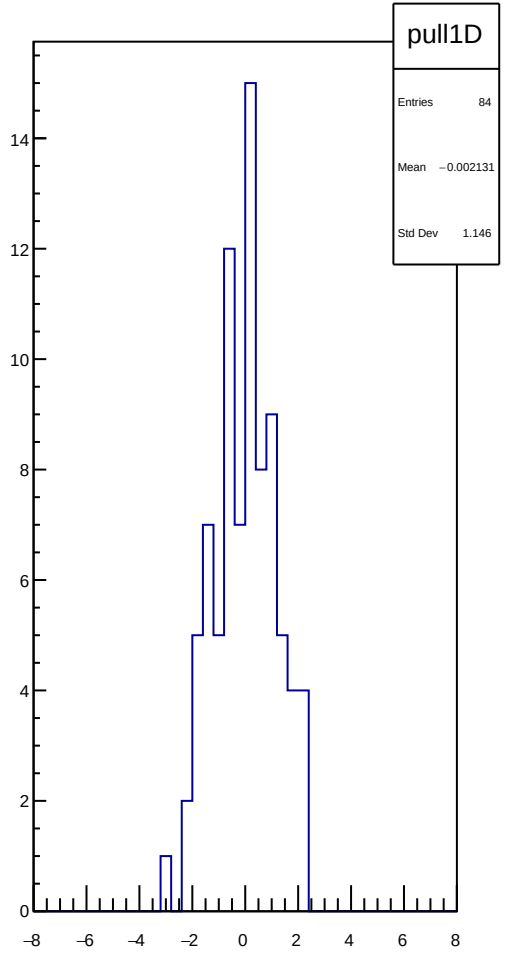

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 5977 / 83
p0 1.057e+04 ± 8.303
12500
12000
11500
11000
10500
10000
9500
9000

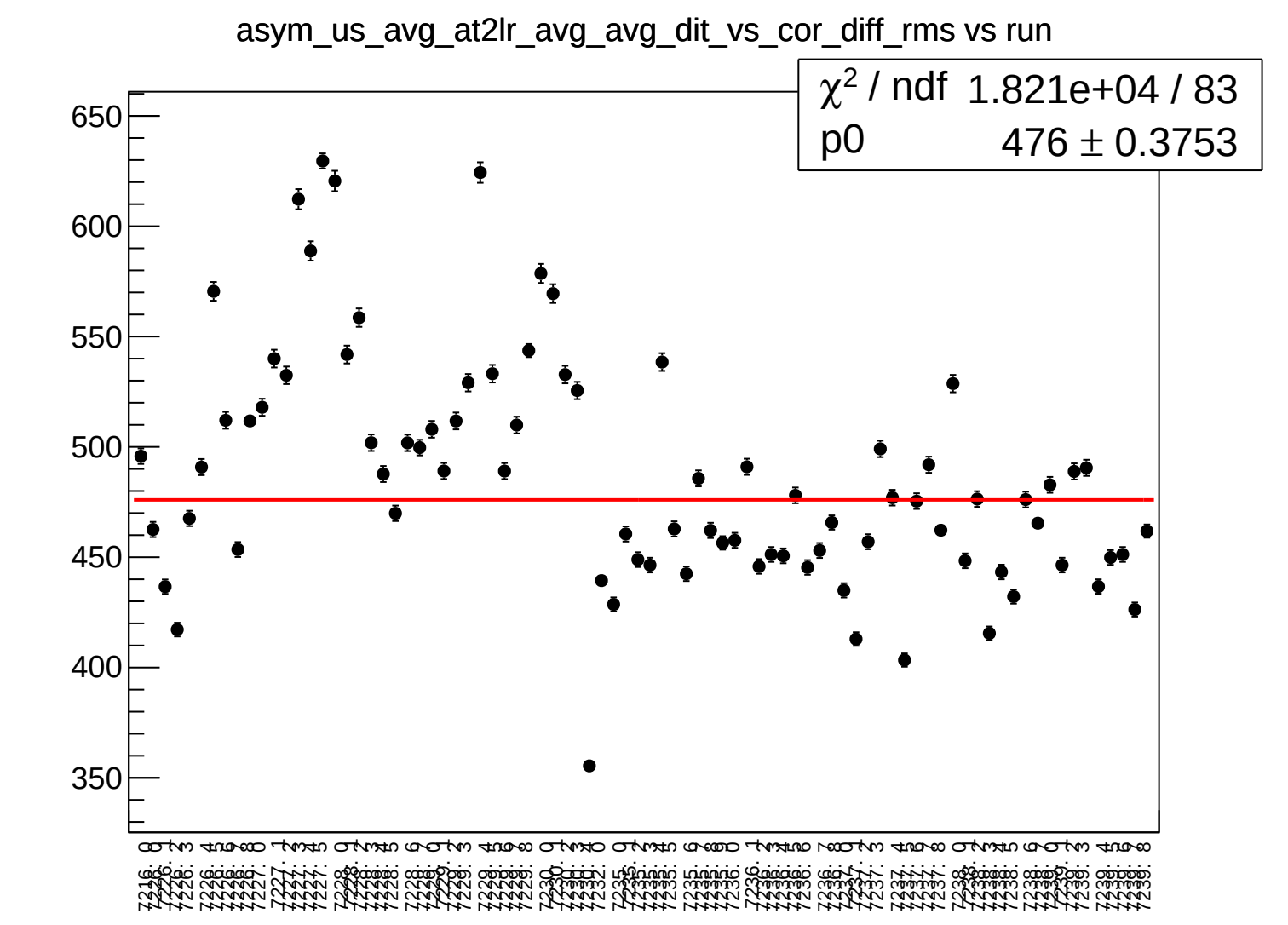

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 78.82 / 83
p0 −7.91e−14 ± 3.78e−13
pull
Entries 84
Mean 34.05
Std Dev 30.6

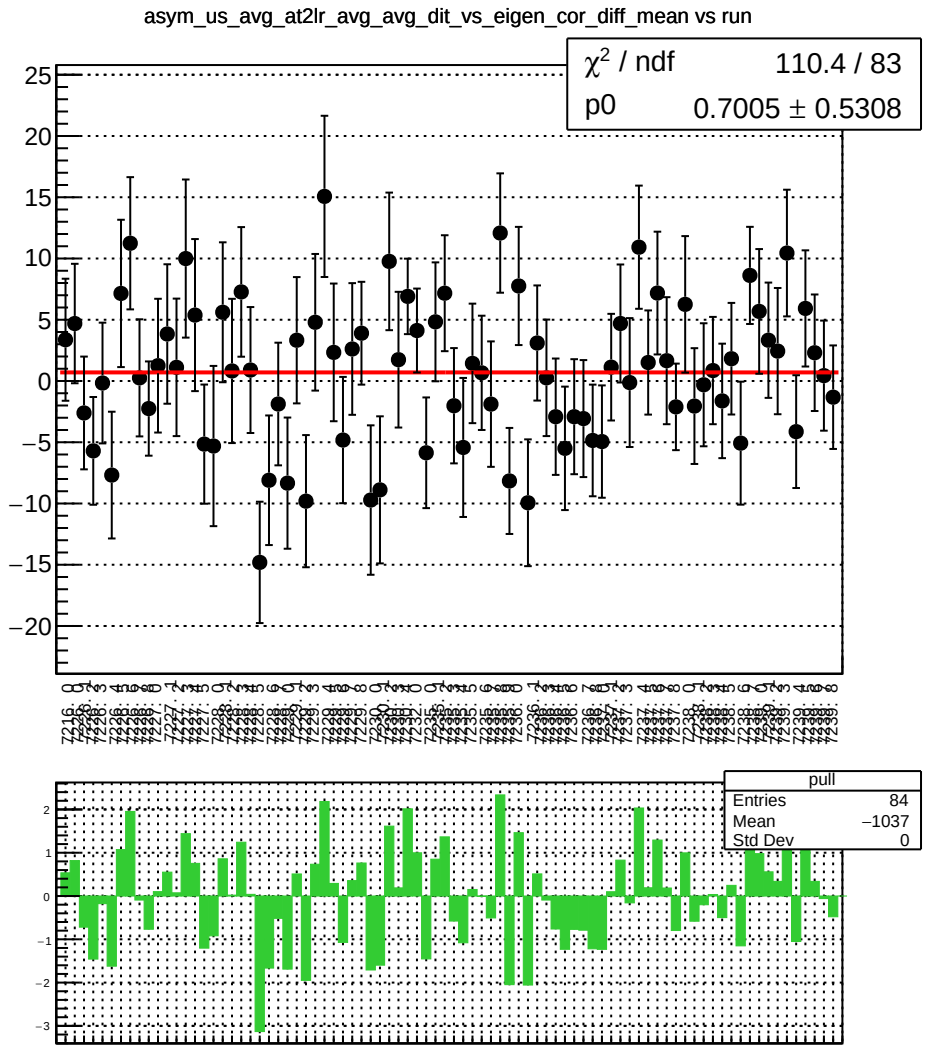

pull1D
Entries 84
Mean −0.1666
Std Dev 0.9542

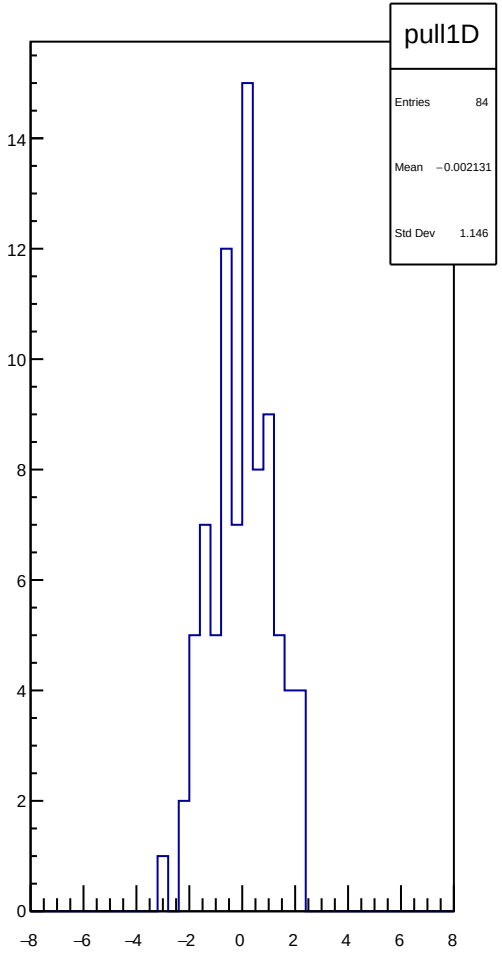

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.062e+06 / 83
p0 2.009e−10 ± 2.673e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

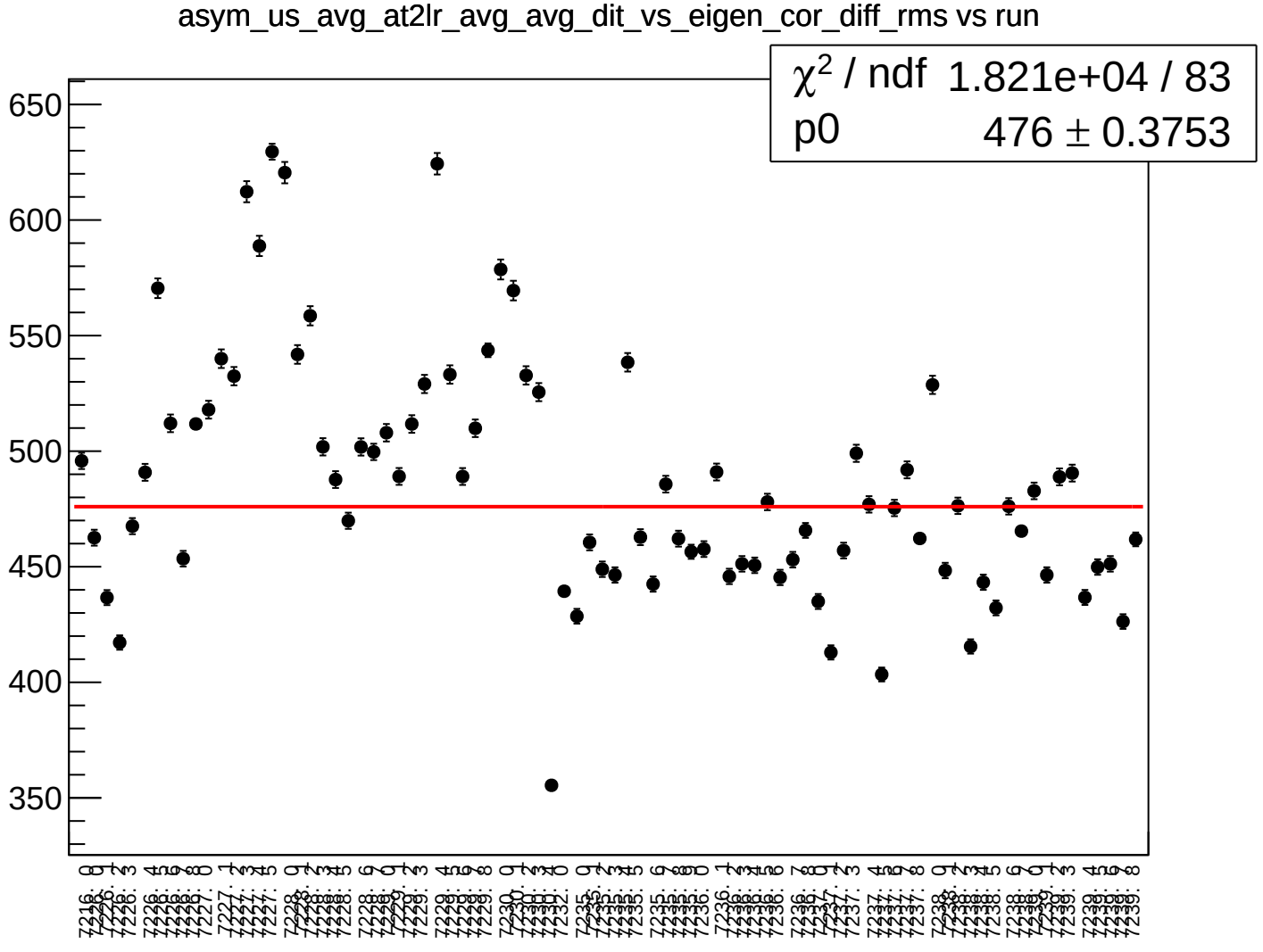

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 110.4 / 83
p0 0.7005 ± 0.5308
pull
Entries 84
Mean −1037
Std Dev 0

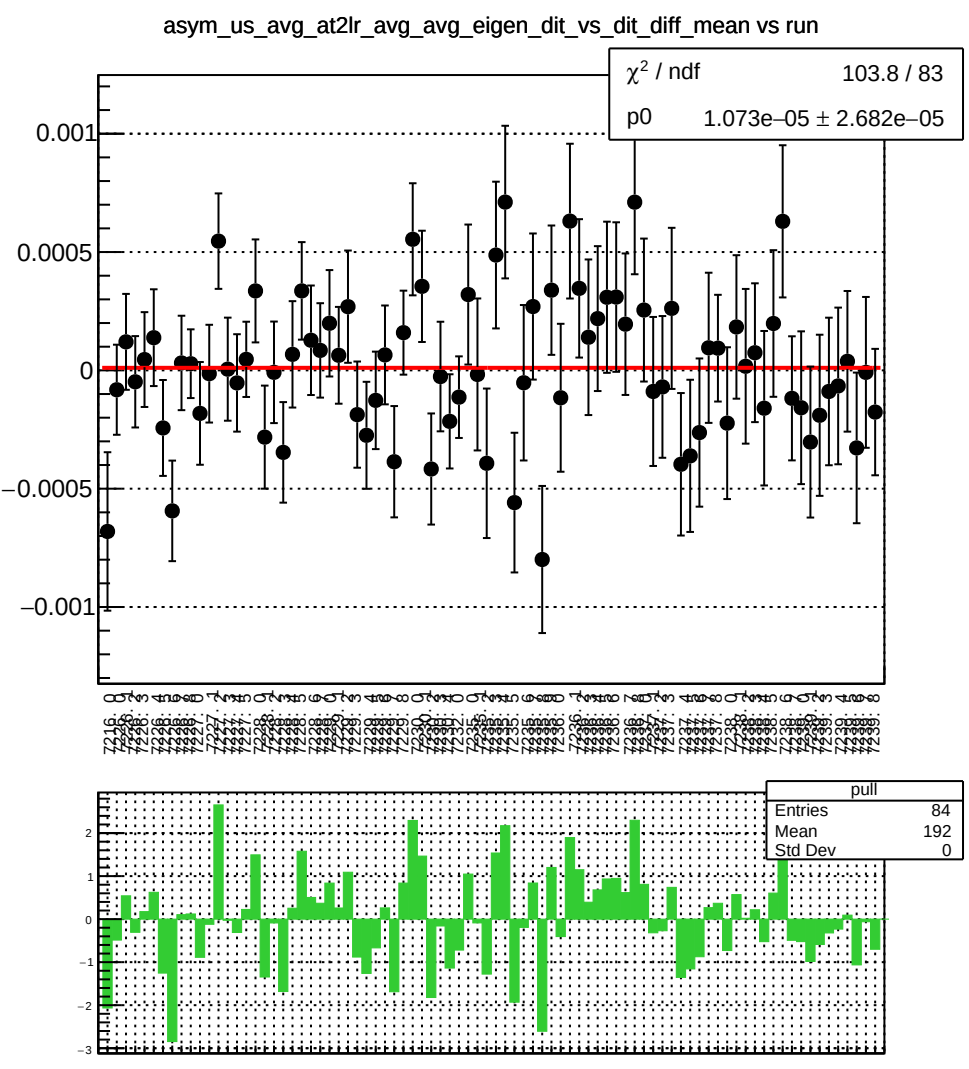

pull1D
Entries 84
Mean −0.002131
Std Dev 1.146

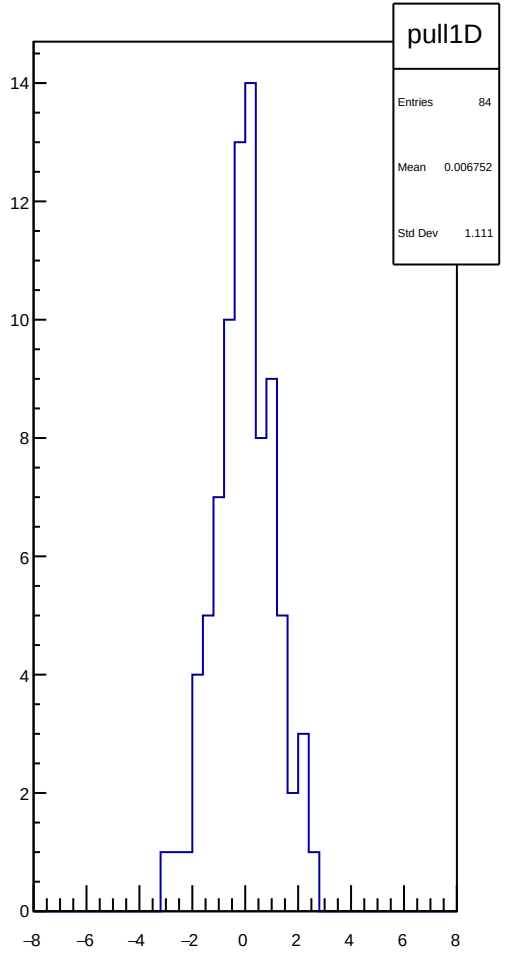

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.821e+04 / 83
p0 476 ± 0.3753
650
600
550
500
450
400
350

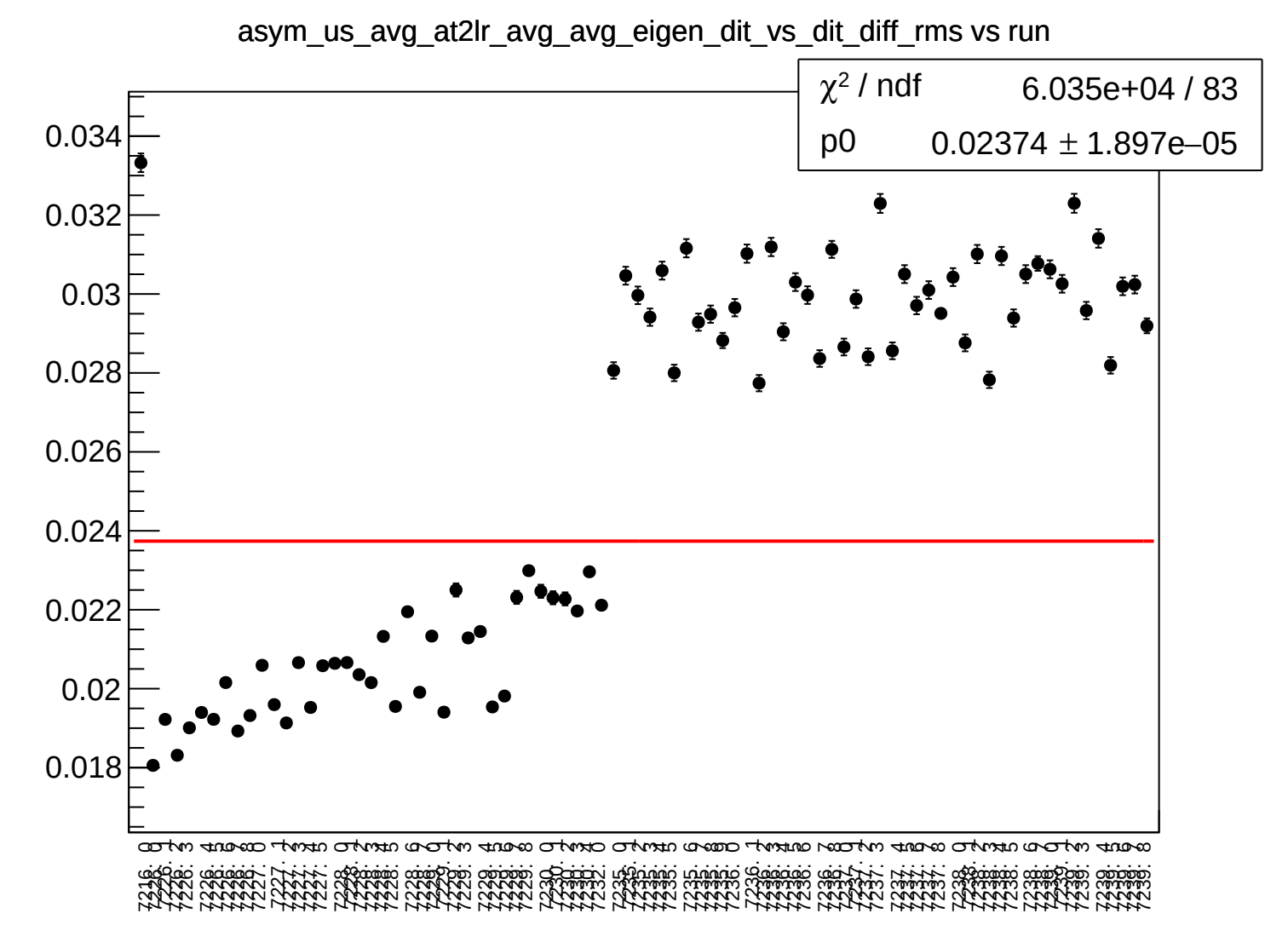

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110.4 / 83
p0 0.7005 ± 0.5308
pull
Entries 84
Mean −1037
Std Dev 0

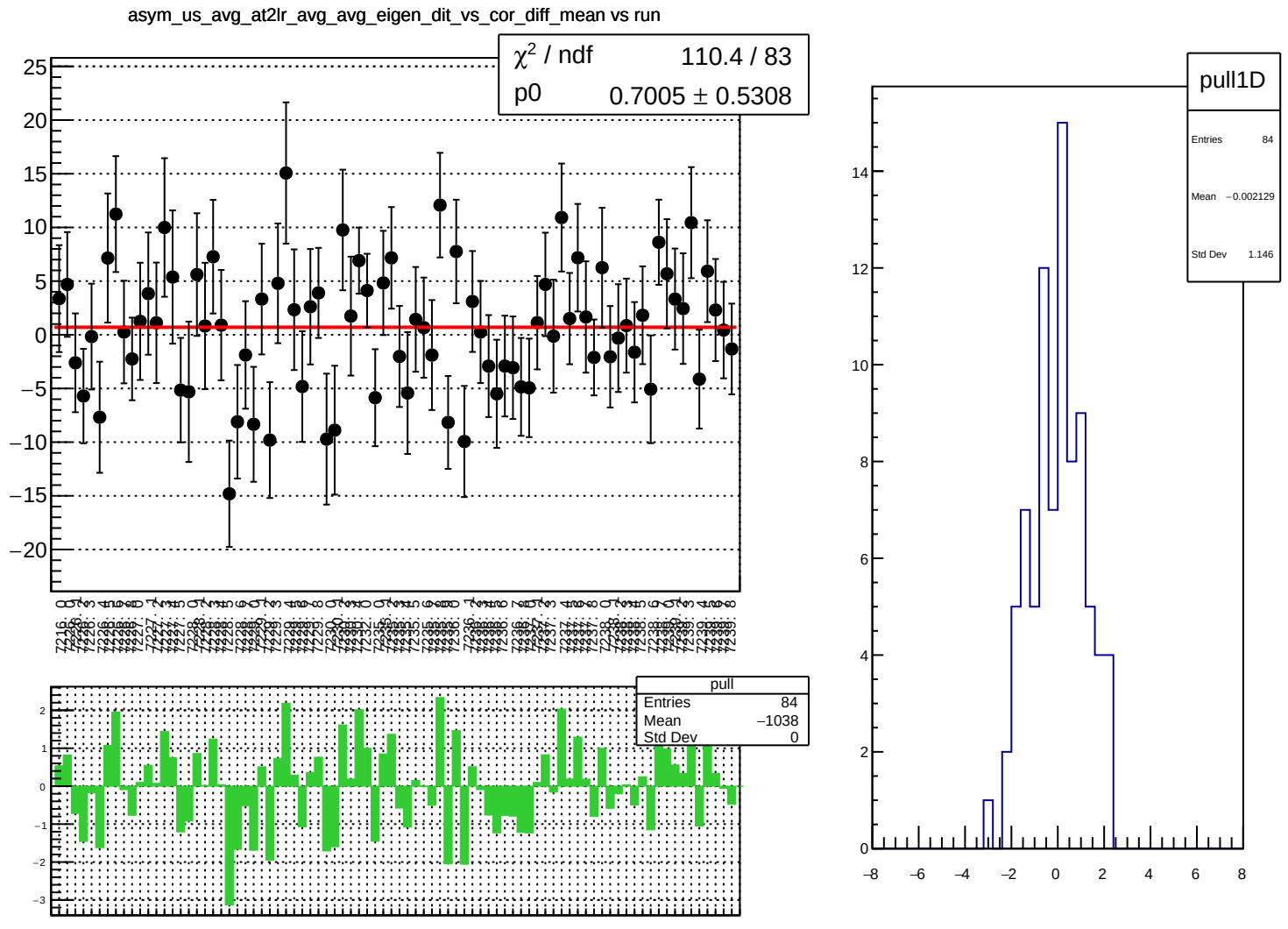

pull1D
Entries 84
Mean −0.002131
Std Dev 1.146

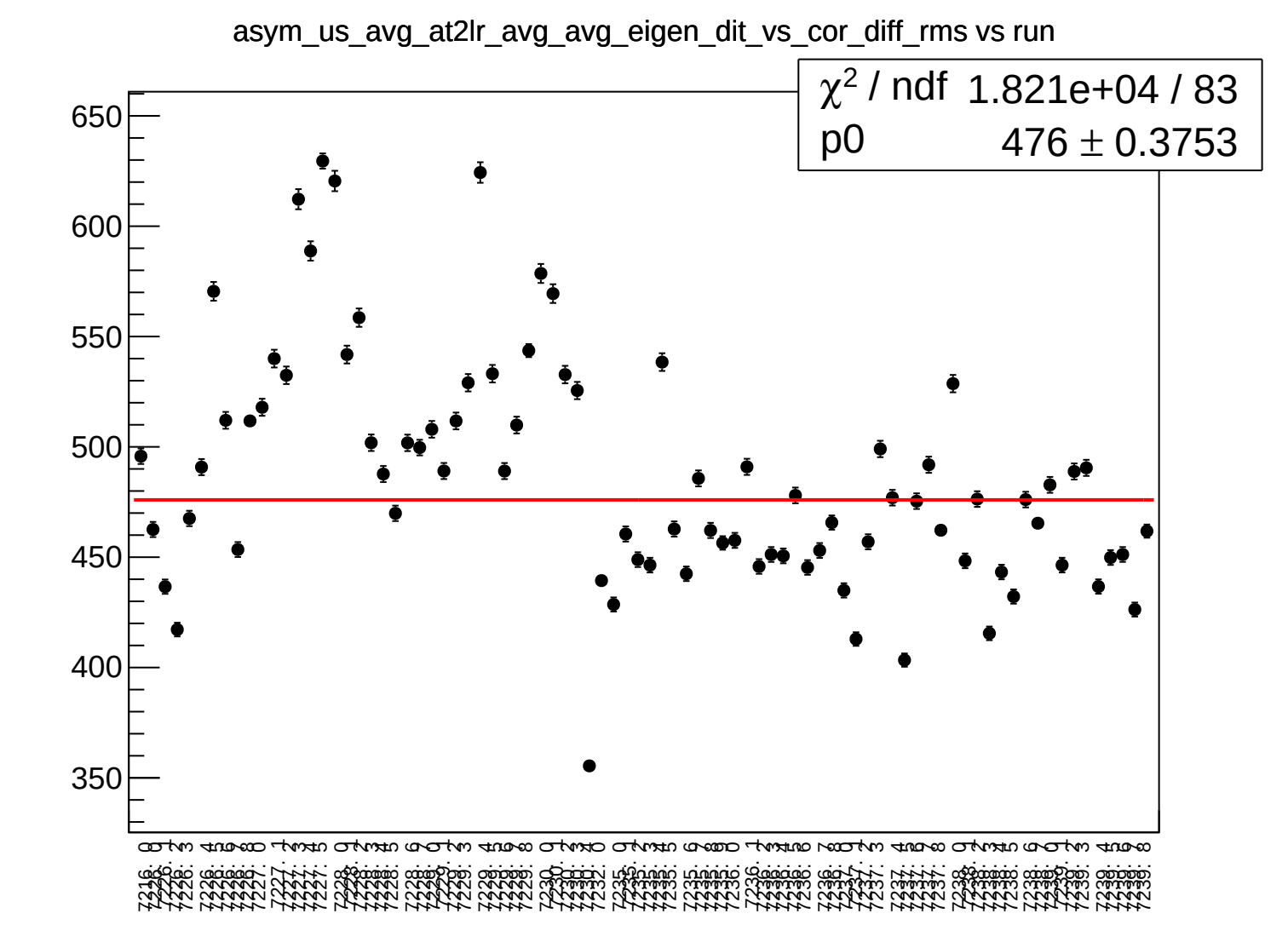

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.821e+04 / 83
p0 476 ± 0.3753
650
600
550
500
450
400
350

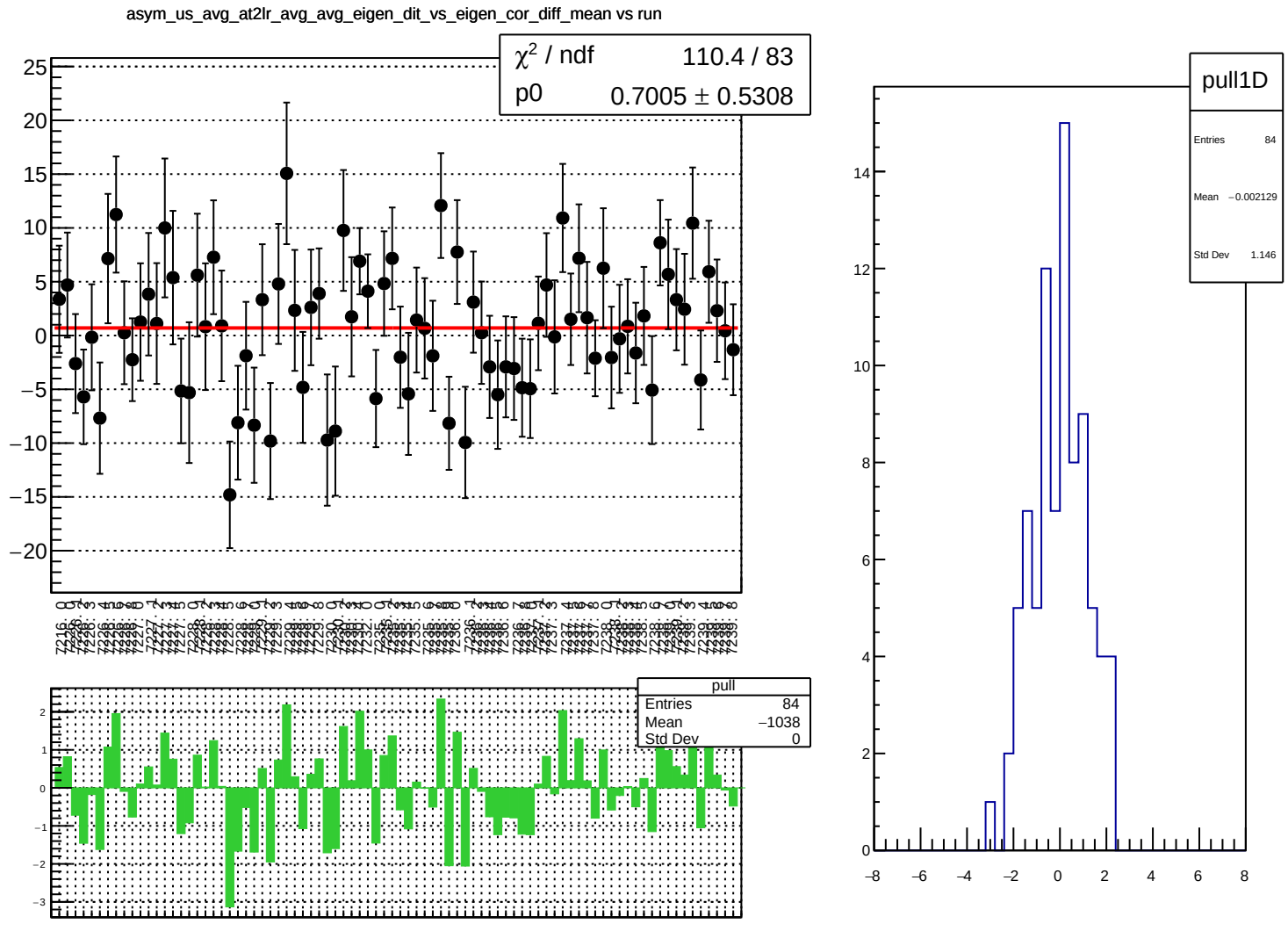

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 103.8 / 83
p0 1.073e−05 ± 2.682e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 84
Mean 192
Std Dev 0

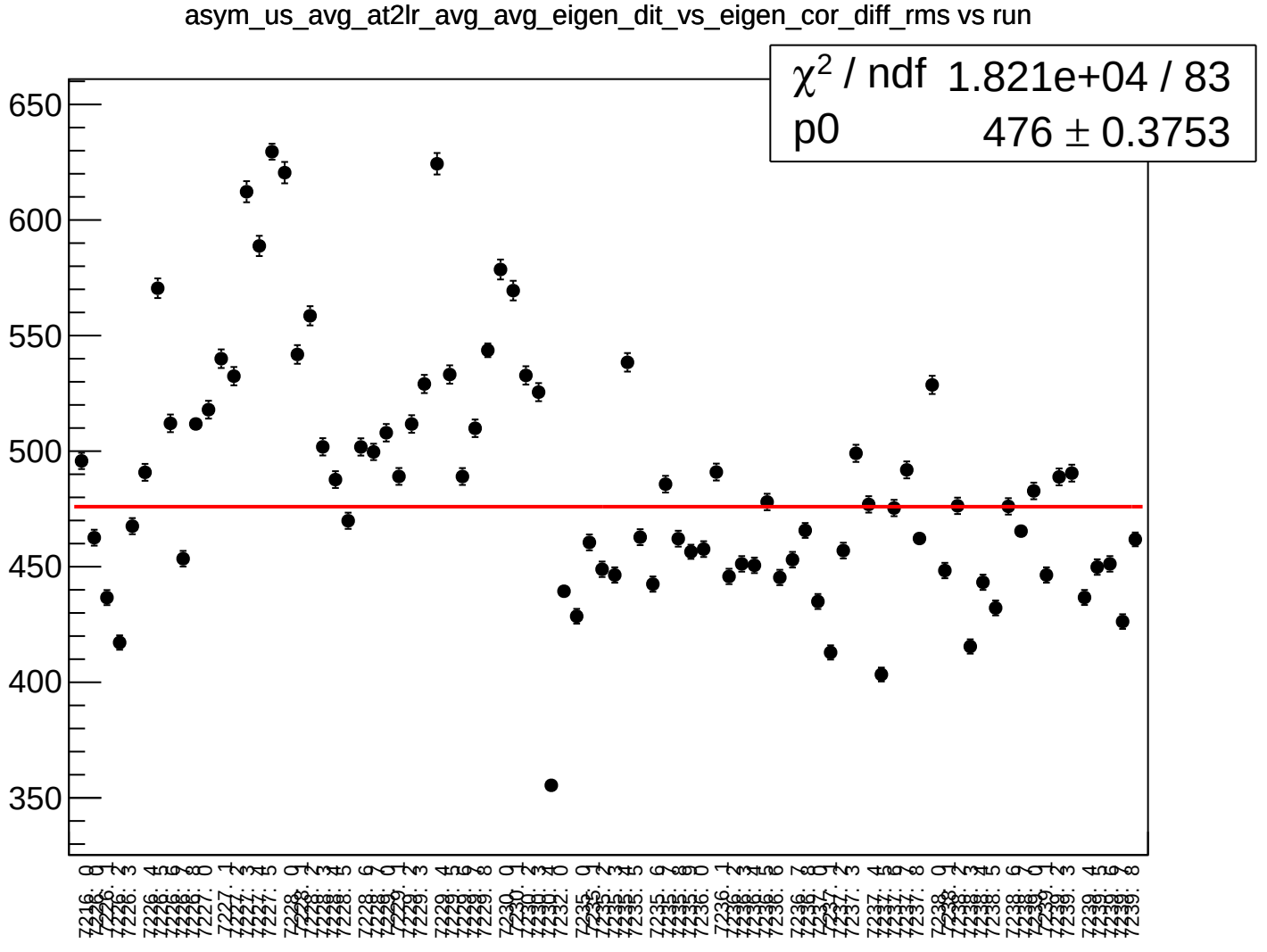

pull1D
Entries 84
Mean 0.006752
Std Dev 1.111

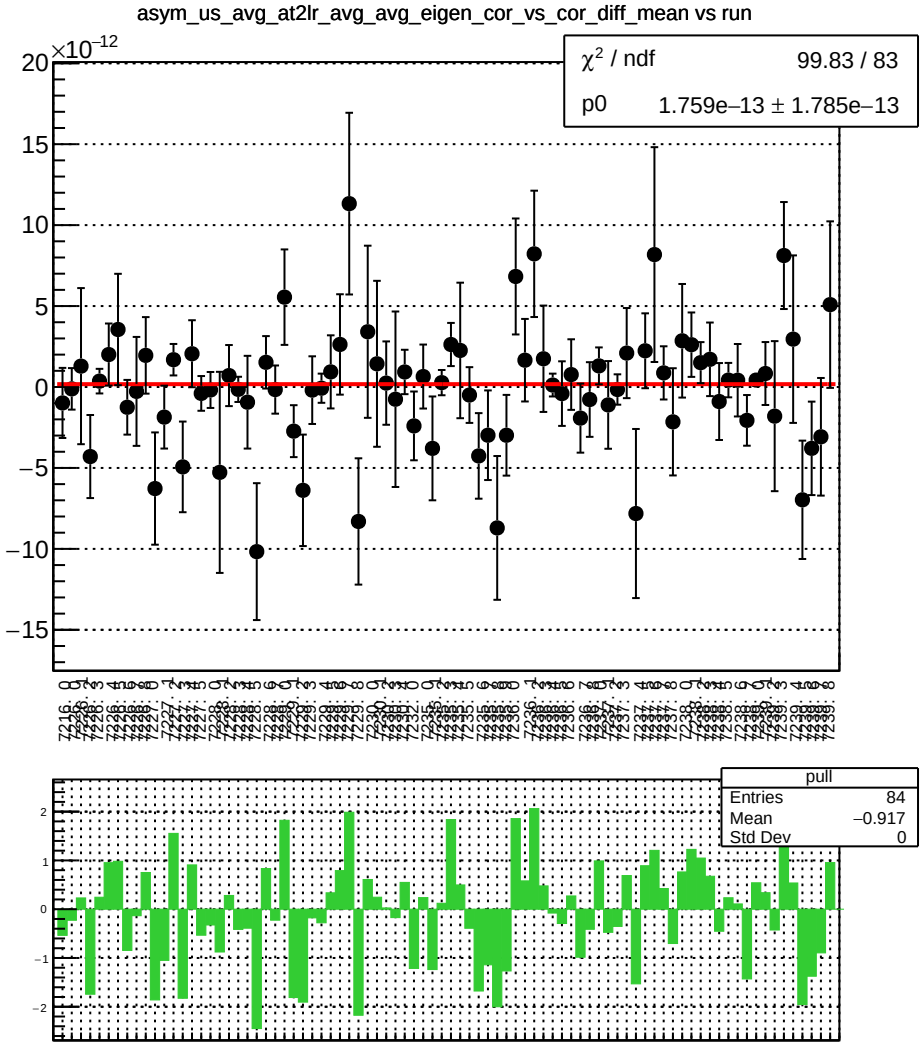

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.035e+04 / 83
p0 0.02374 ± 1.897e−05
0.034
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0.018

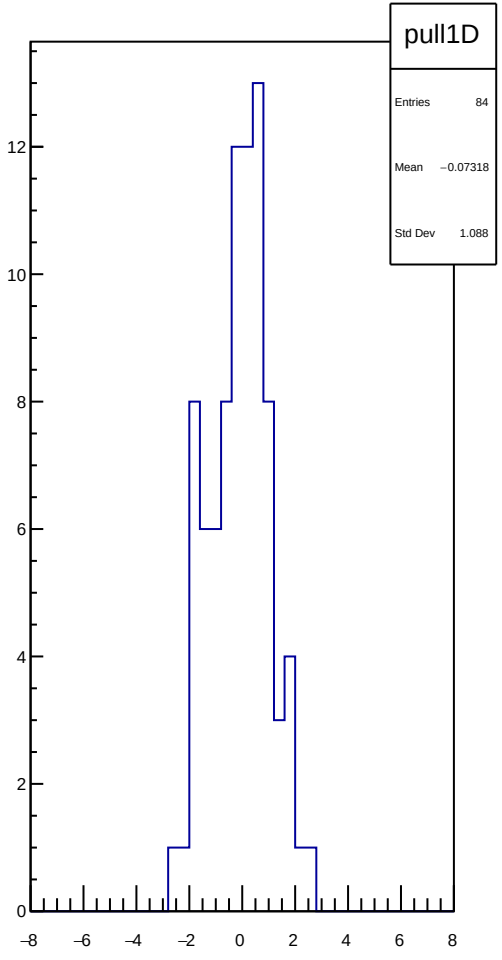

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 110.4 / 83
p0 0.7005 ± 0.5308
pull
Entries 84
Mean −1038
Std Dev 0
pull1D
Entries 84
Mean −0.002129
Std Dev 1.146

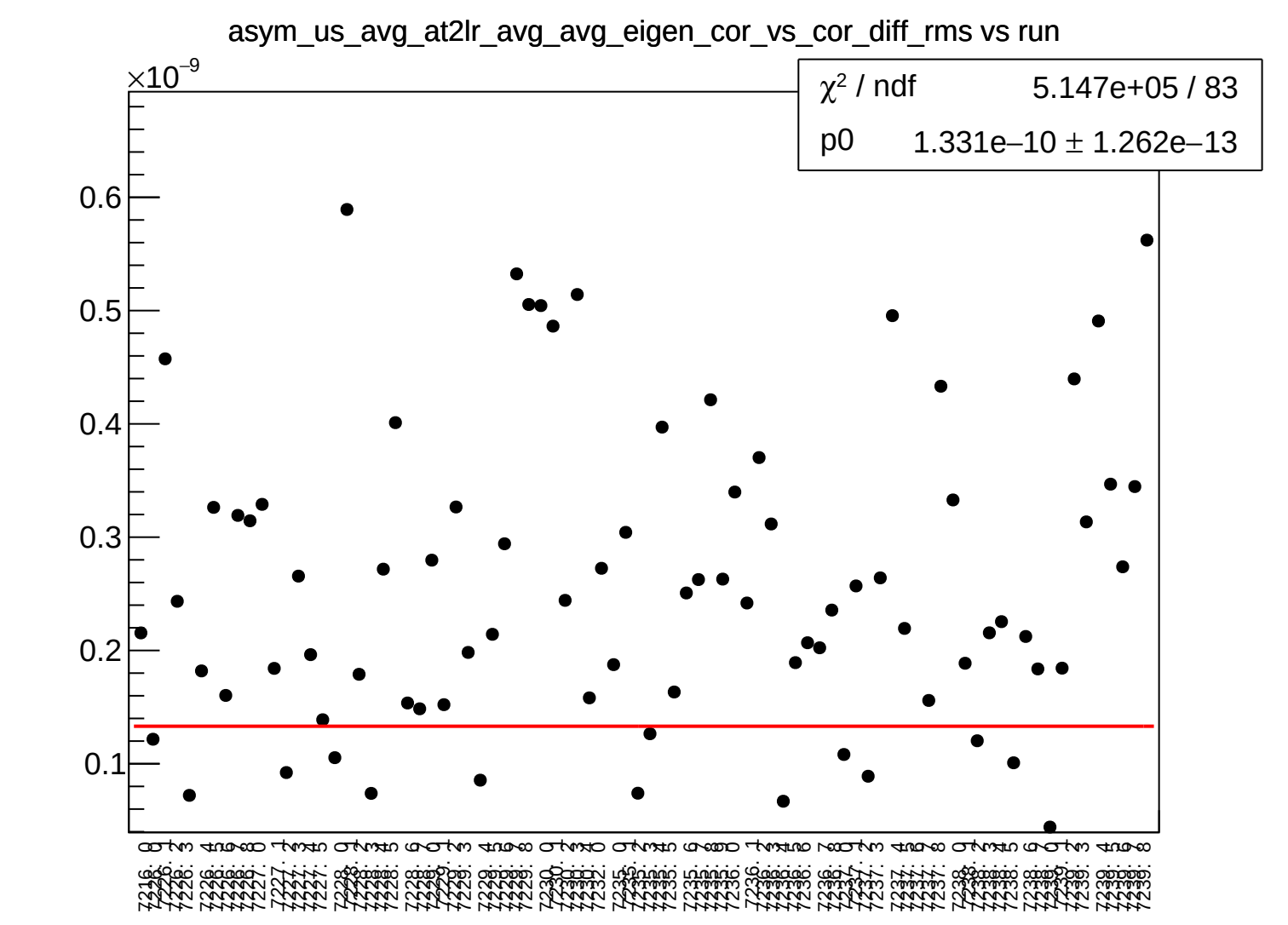

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.821e+04 / 83
p0 476 ± 0.3753
650
600
550
500
450
400
350

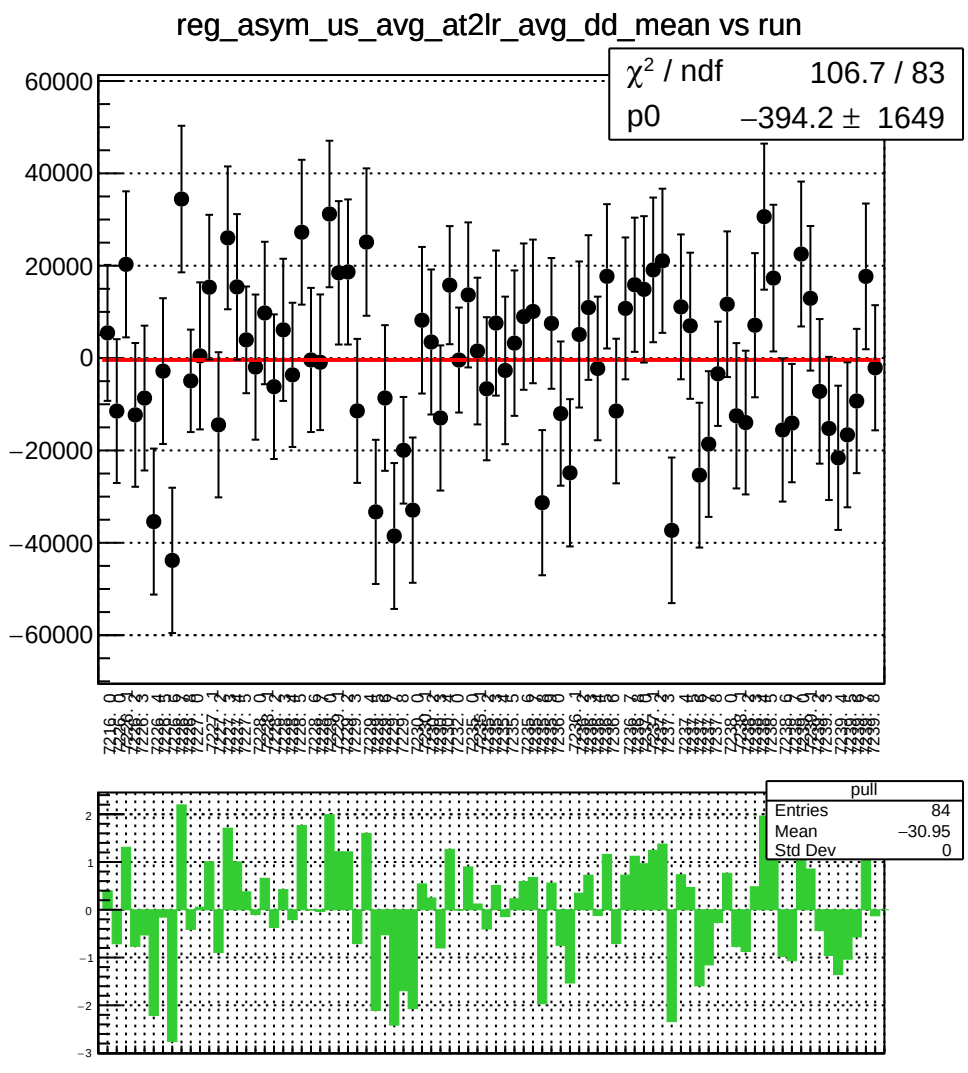

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110.4 / 83
p0 0.7005 ± 0.5308
pull
Entries 84
Mean −1038
Std Dev 0
pull1D
Entries 84
Mean −0.002129
Std Dev 1.146

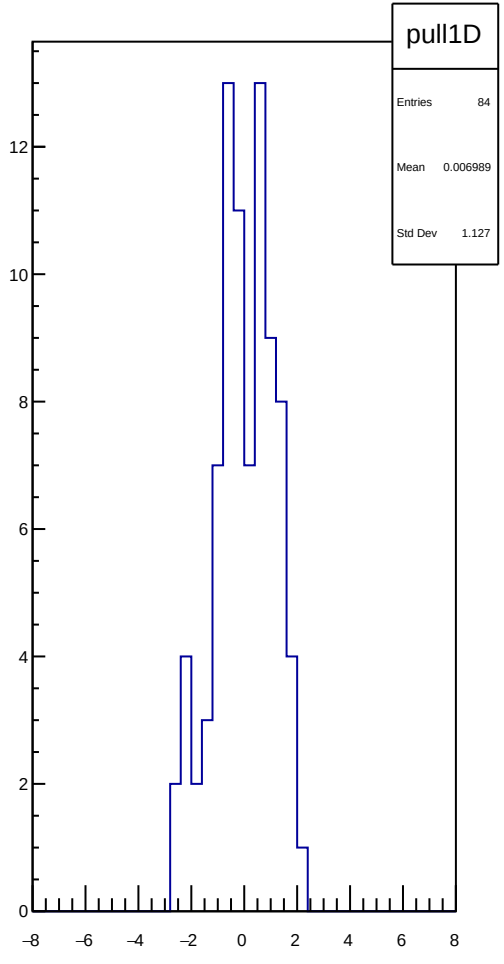

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.821e+04 / 83
p0 476 ± 0.3753
650
600
550
500
450
400
350

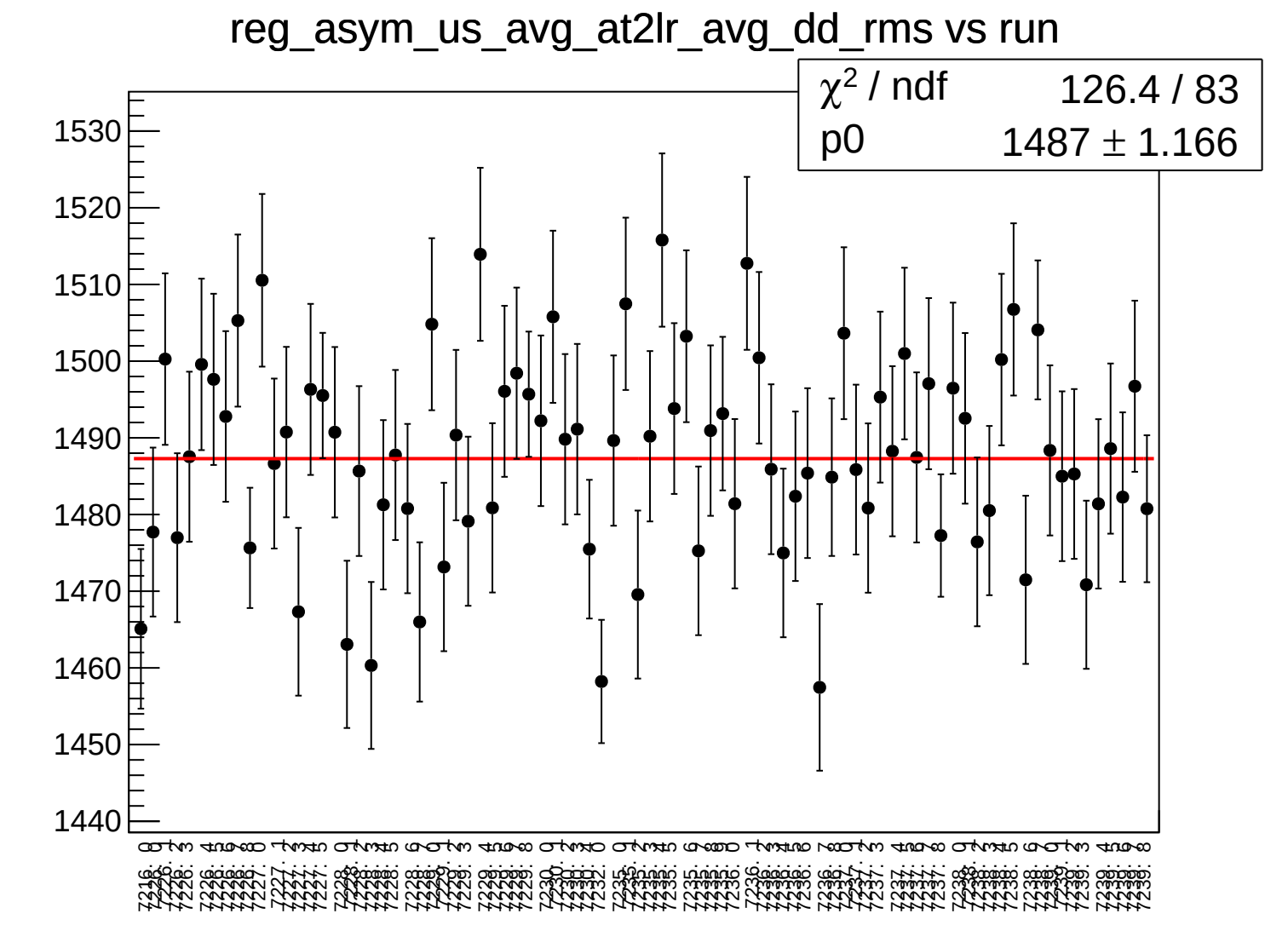

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.83 / 83
p0 1.759e−13 ± 1.785e−13
pull
Entries 84
Mean −0.917
Std Dev 0

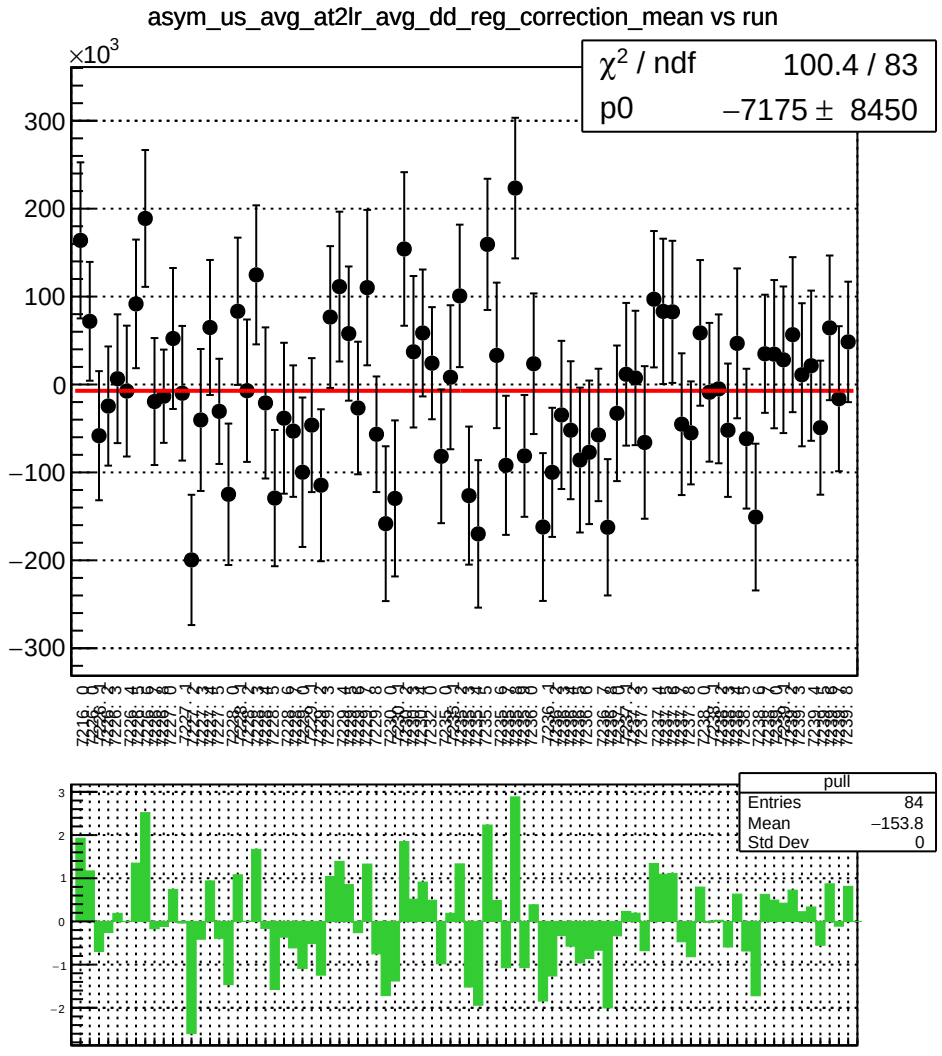

pull1D
Entries 84
Mean −0.07318
Std Dev 1.088

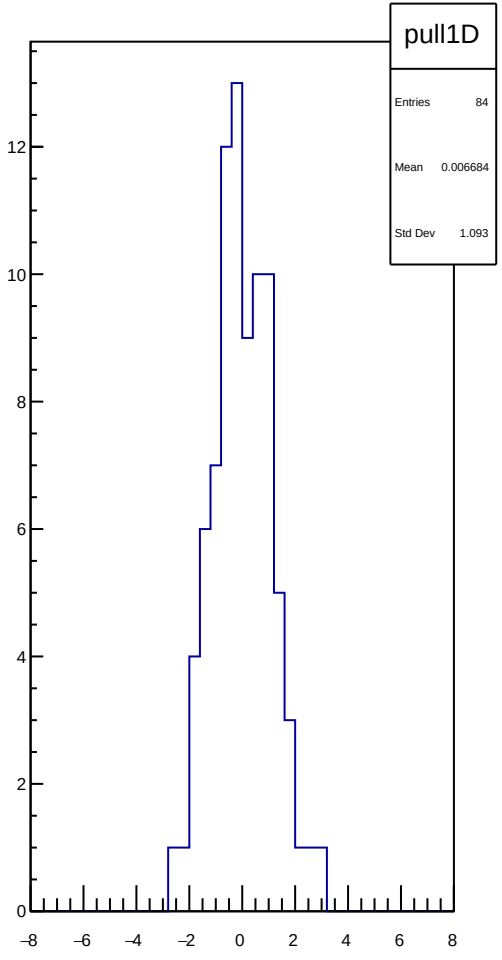

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.147e+05 / 83
p0 1.331e−10 ± 1.262e−13
0.6
0.5
0.4
0.3
0.2
0.1

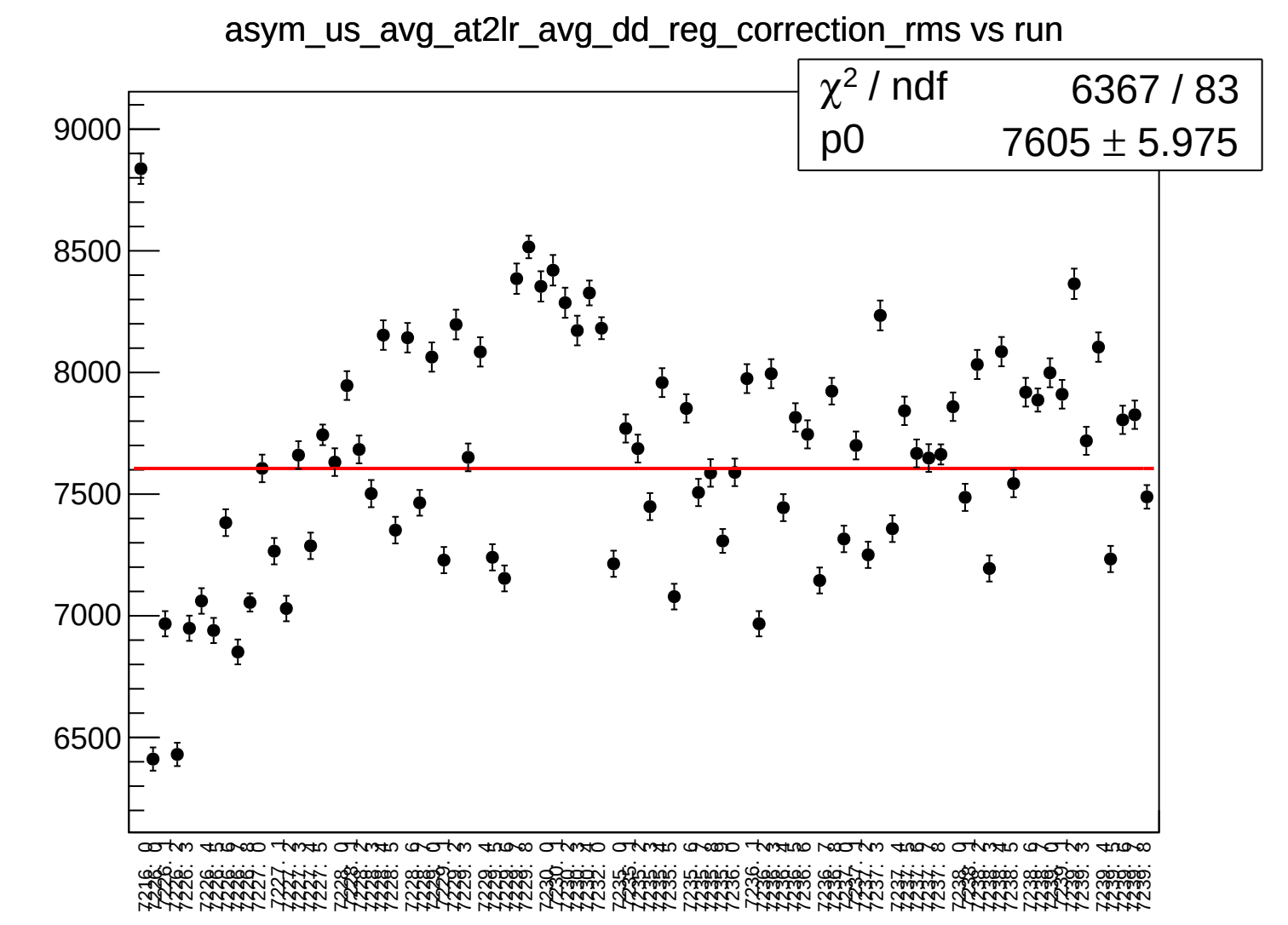

reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 106.7 / 83
p0 −394.2 ± 1649
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −30.95
Std Dev 0
2
1
0
−1
−2
−3

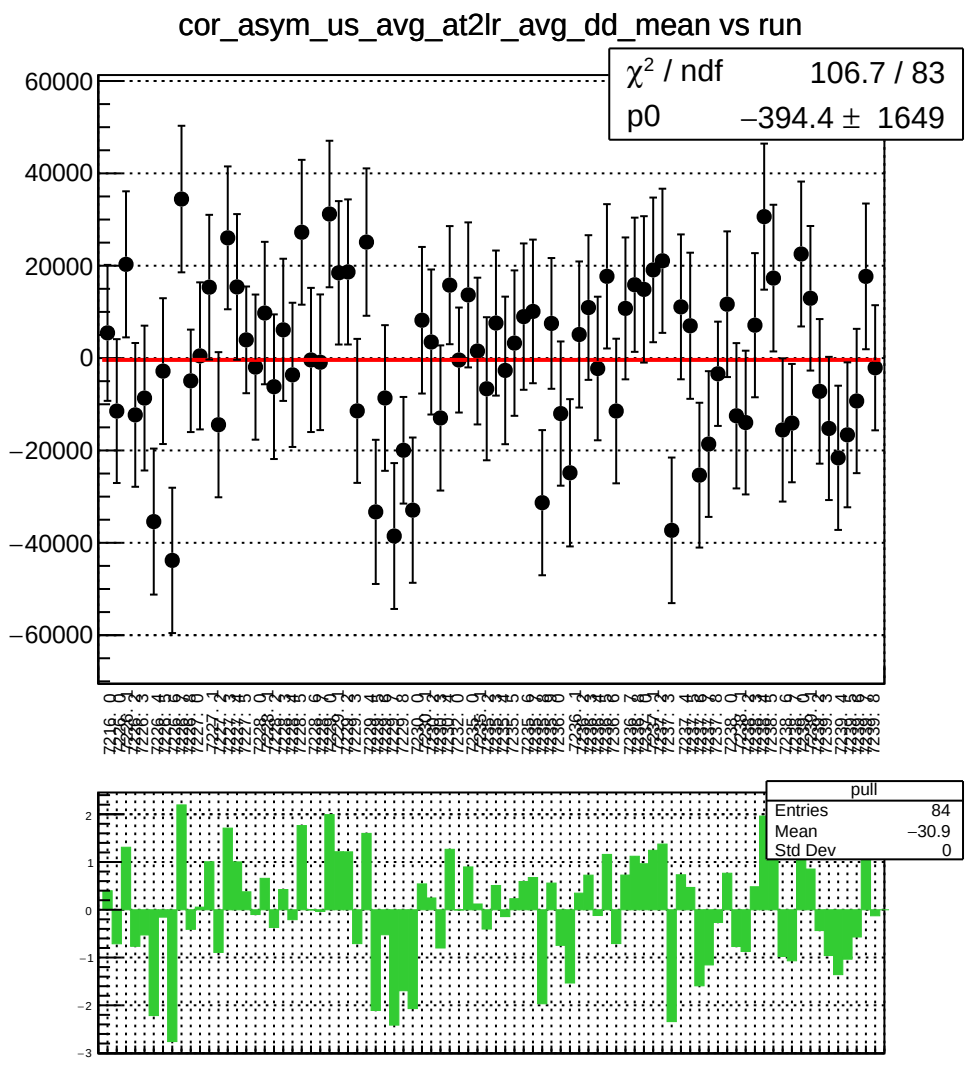

pull1D
Entries 84
Mean 0.006989
Std Dev 1.127
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

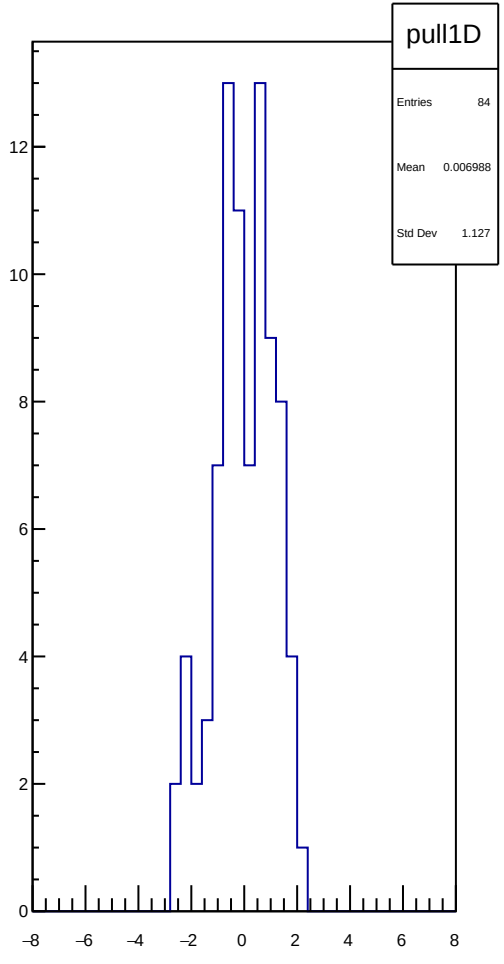

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 126.4 / 83
p0 1487 ± 1.166
1530
1520
1510
1500
1490
1480
1470
1460
1450
1440

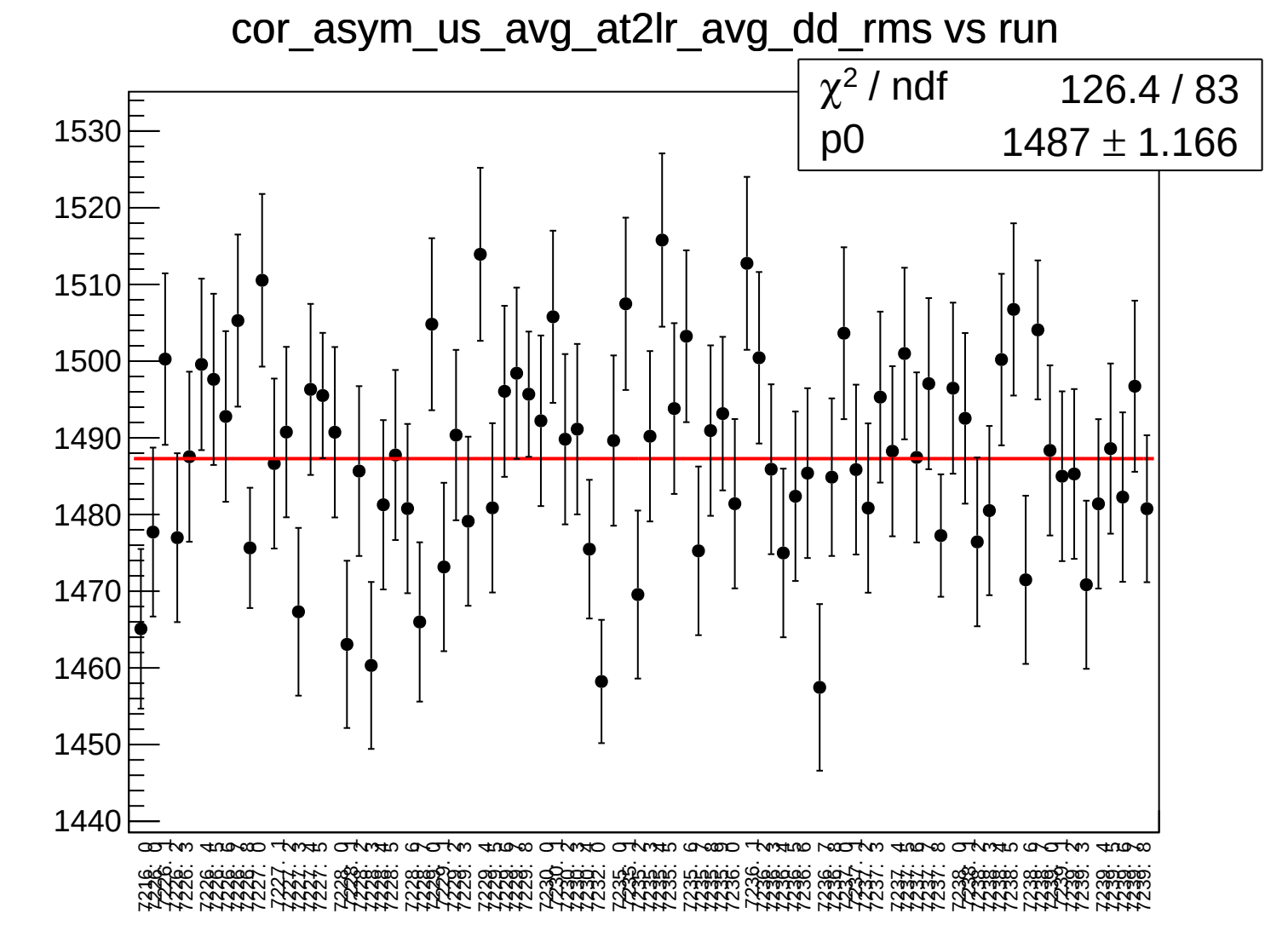

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 100.4 / 83
p0 −7175 ± 8450
300
200
100
0
−100
−200
−300
pull
Entries 84
Mean −153.8
Std Dev 0
3
2
1
0
−1
−2

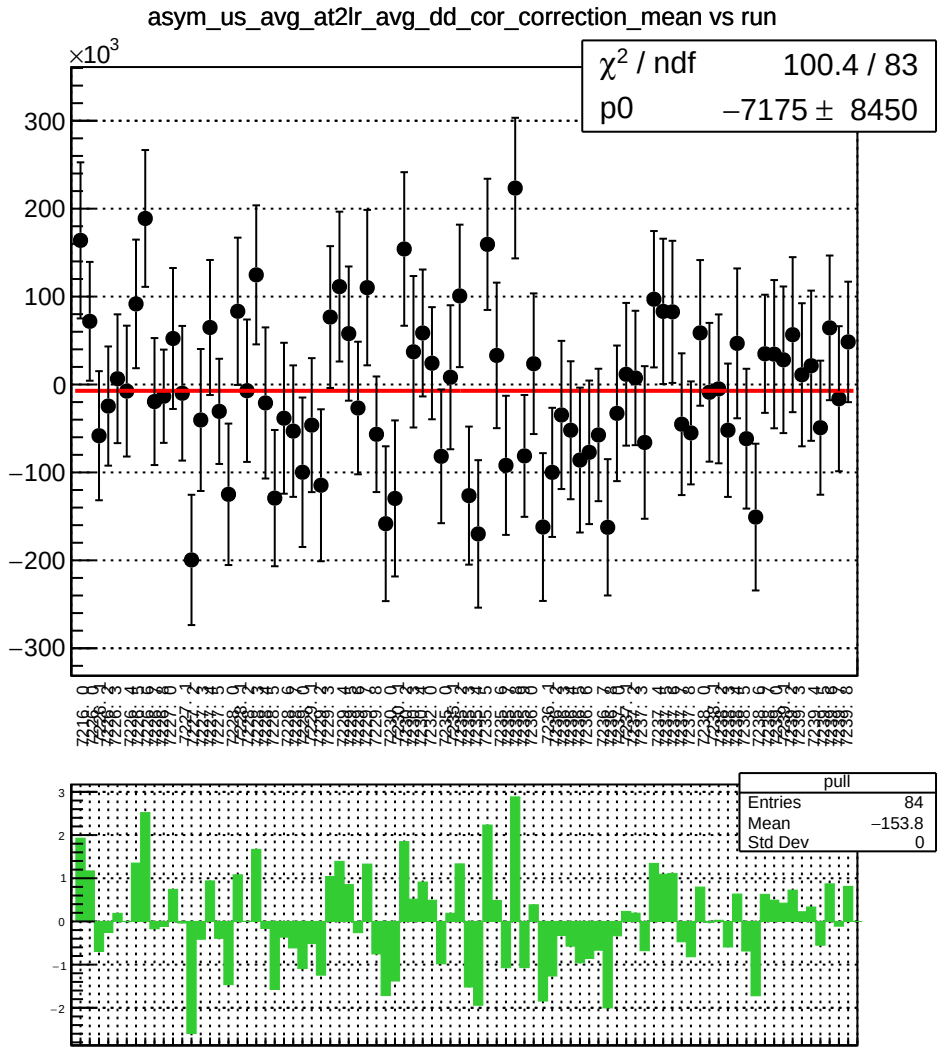

pull1D
Entries 84
Mean 0.006684
Std Dev 1.093
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

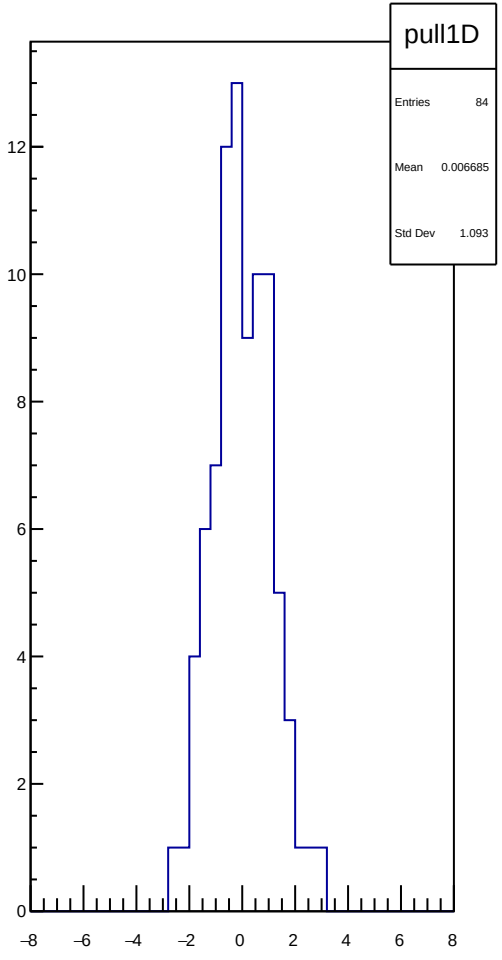

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 6367 / 83
p0 7605 ± 5.975
9000
8500
8000
7500
7000
6500

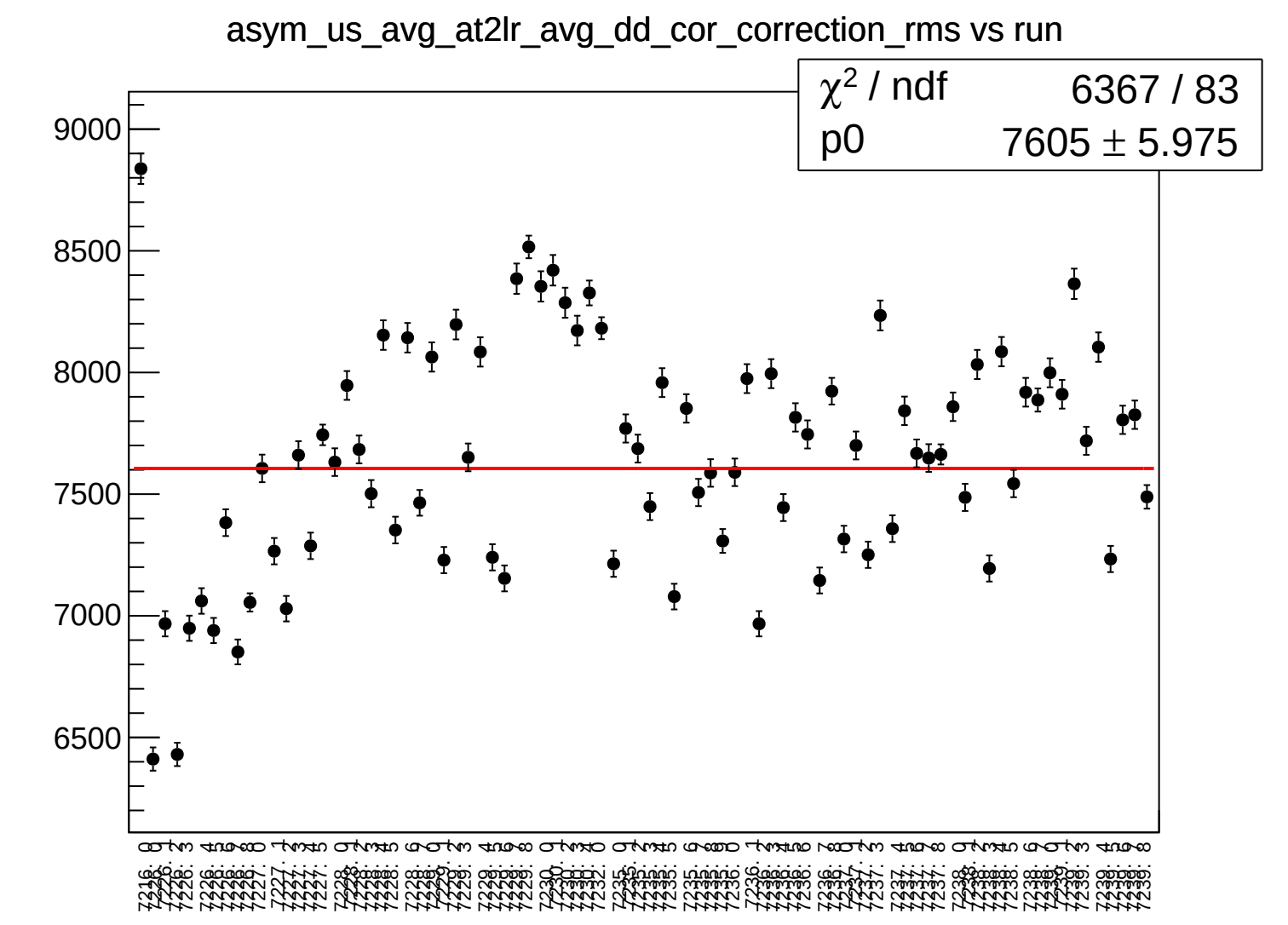

cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 106.7 / 83
p0 −394.4 ± 1649
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −30.9
Std Dev 0
2
1
0
−1
−2
−3

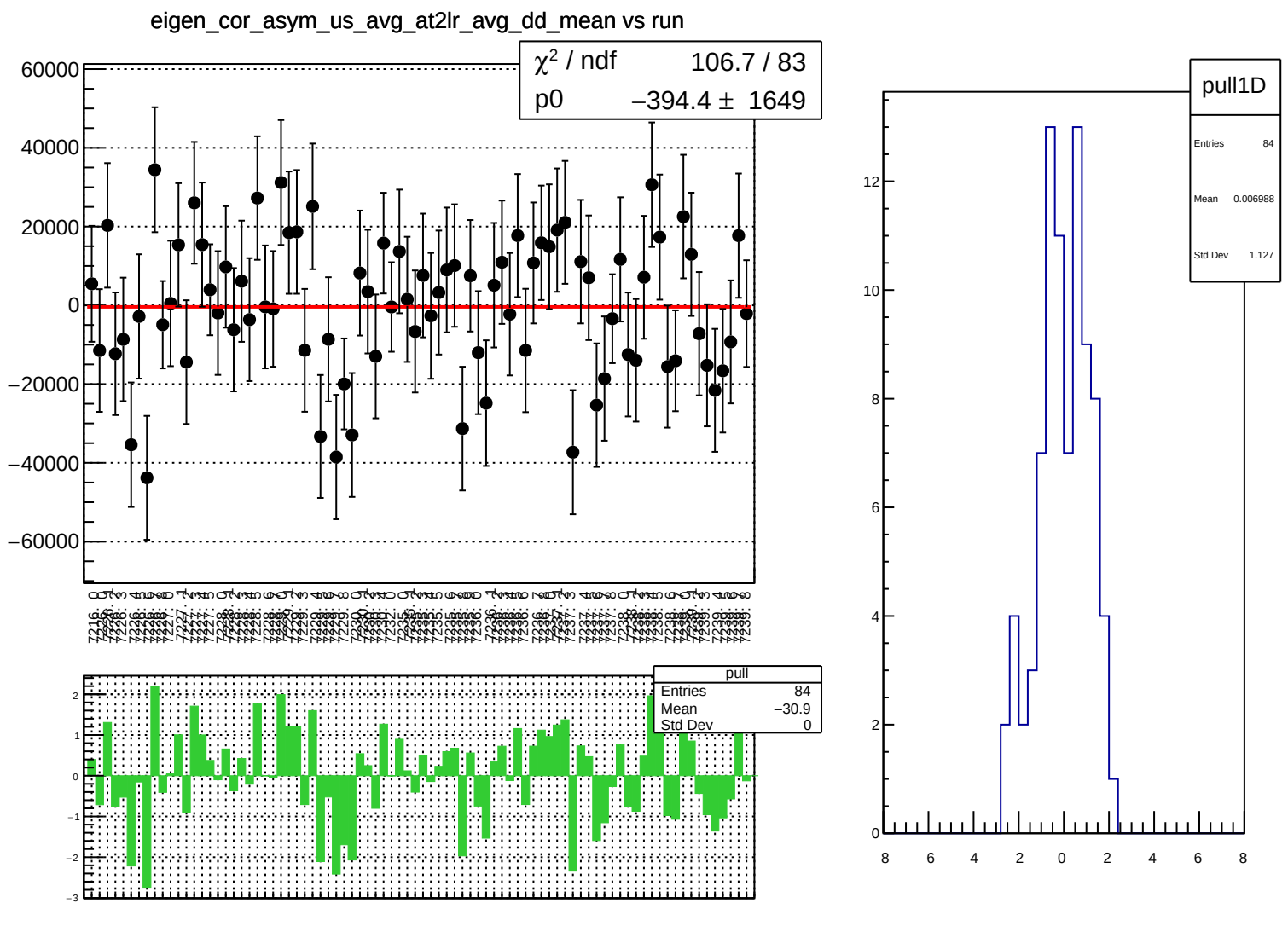

pull1D
Entries 84
Mean 0.006988
Std Dev 1.127
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

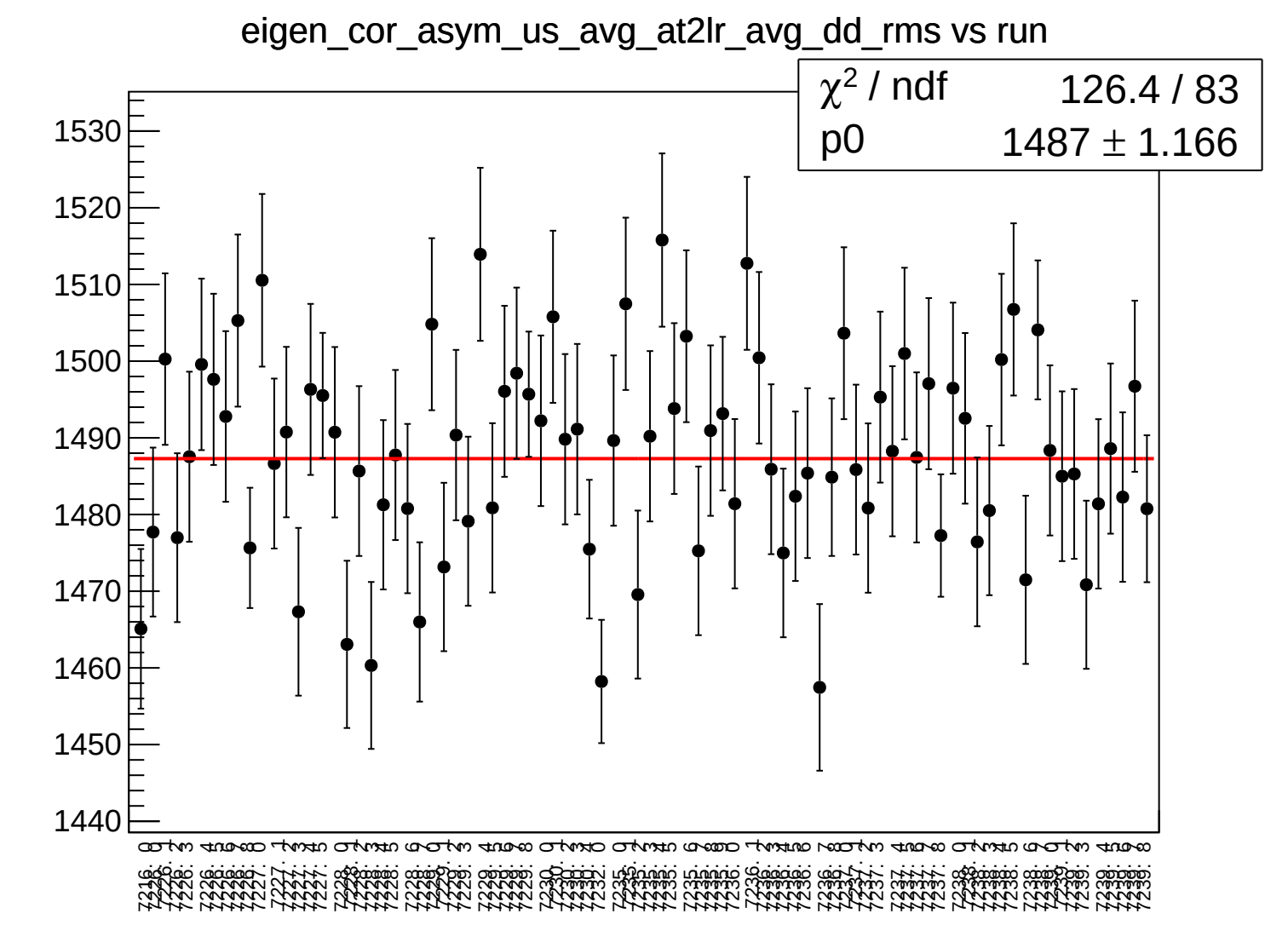

cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 126.4 / 83
p0 1487 ± 1.166
1530
1520
1510
1500
1490
1480
1470
1460
1450
1440

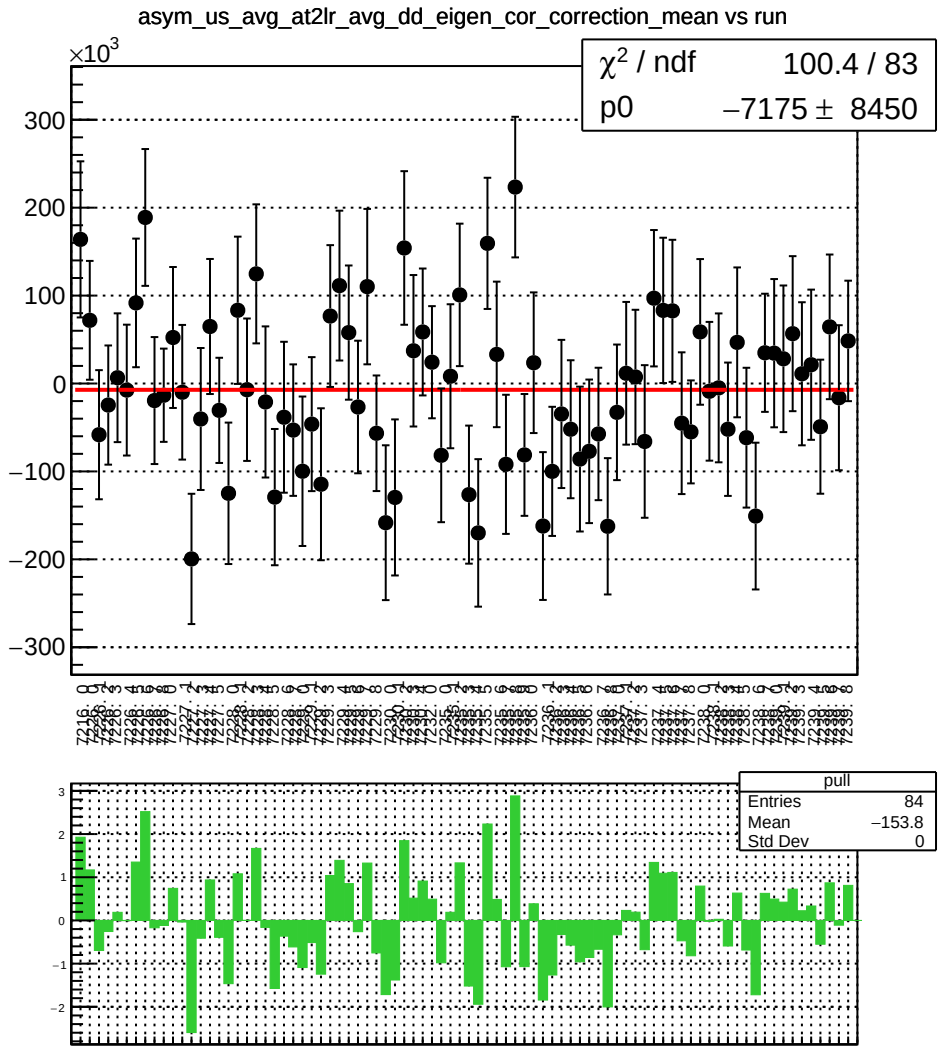

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 100.4 / 83
p0 −7175 ± 8450
pull
Entries 84
Mean −153.8
Std Dev 0

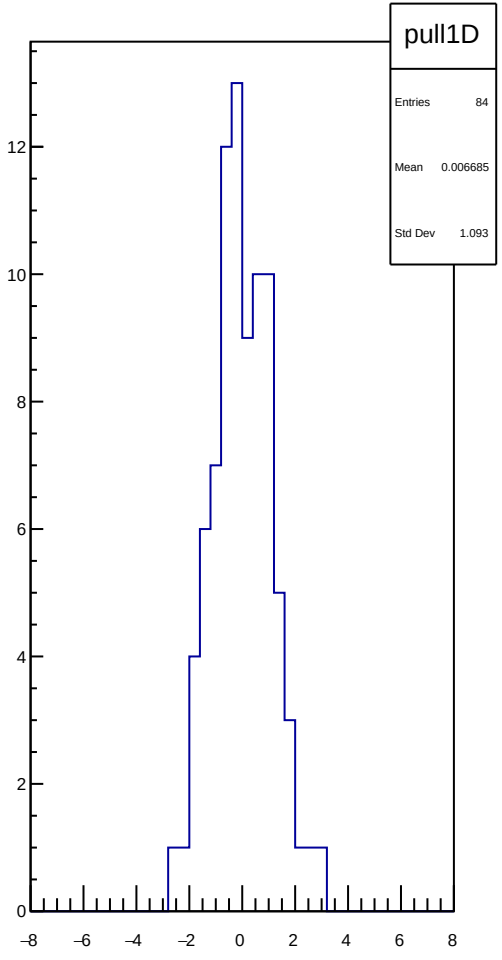

pull1D
Entries 84
Mean 0.006685
Std Dev 1.093

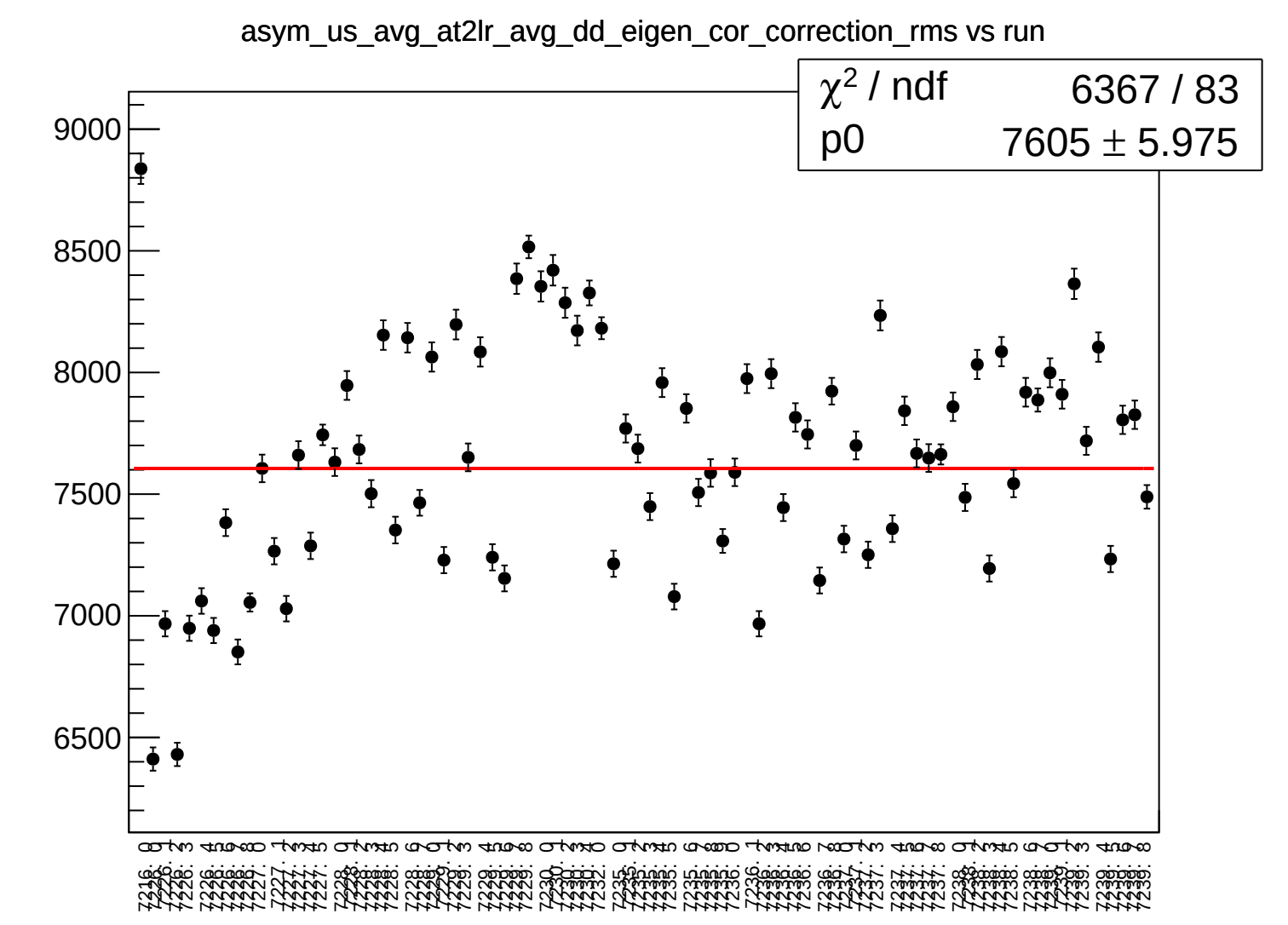

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ^2 / ndf 6367 / 83
p0 7605 ± 5.975
9000
8500
8000
7500
7000
6500

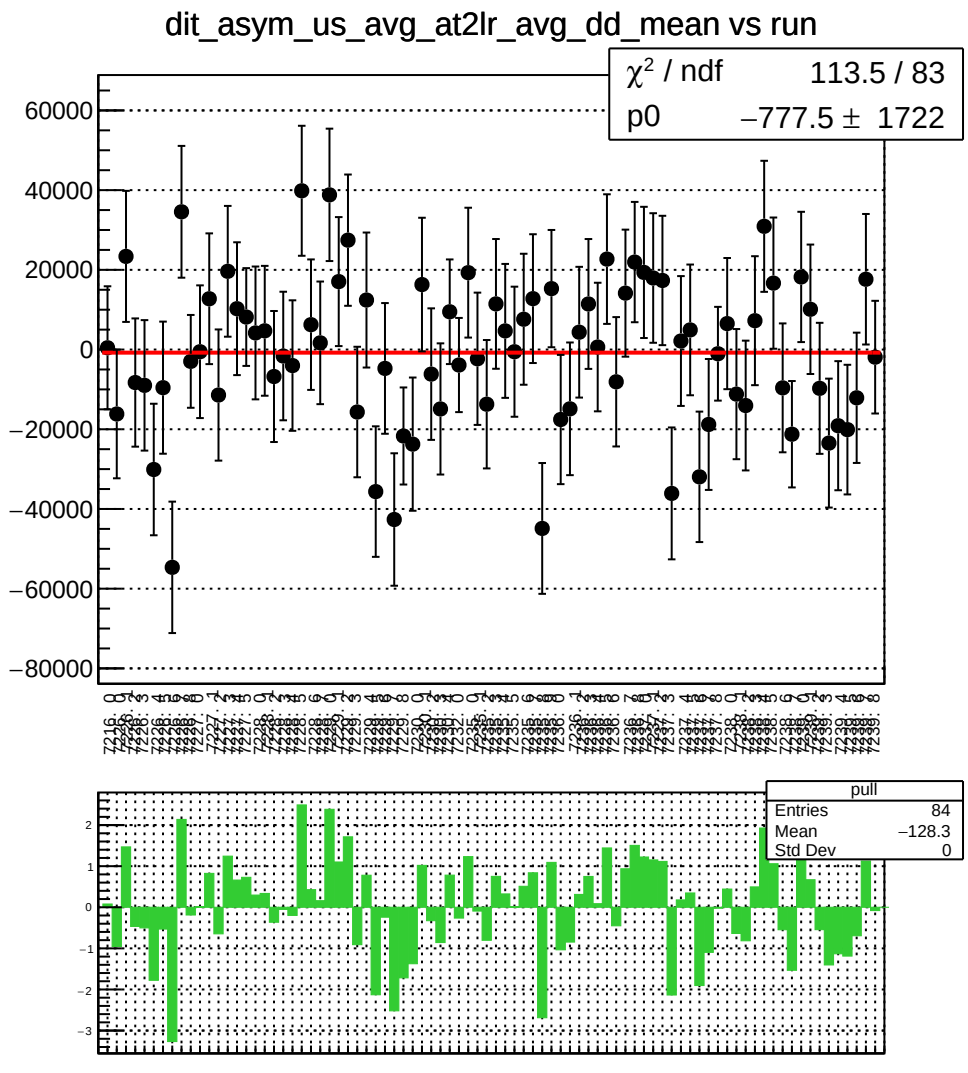

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 106.7 / 83
p0 −394.4 ± 1649
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −30.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean 0.006988
Std Dev 1.127
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

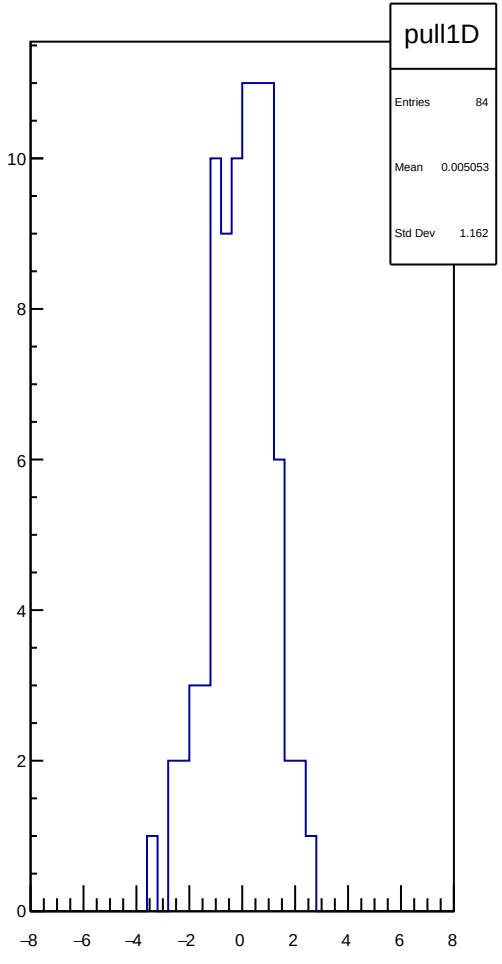

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 126.4 / 83
p0 1487 ± 1.166
1530
1520
1510
1500
1490
1480
1470
1460
1450
1440

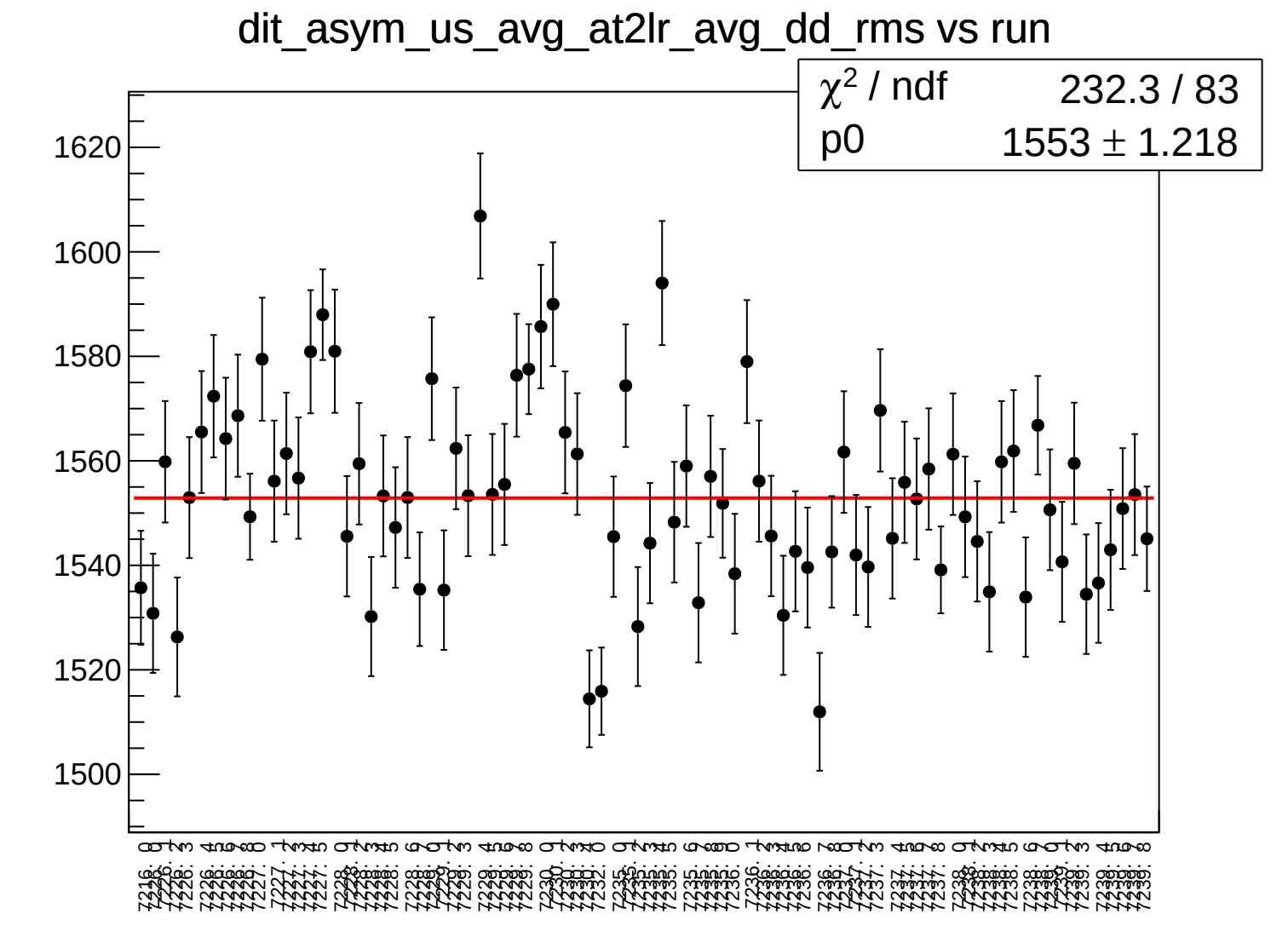

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 100.4 / 83
p0 −7175 ± 8450
300
200
100
0
−100
−200
−300
pull
Entries 84
Mean −153.8
Std Dev 0
3
2
1
0
−1
−2

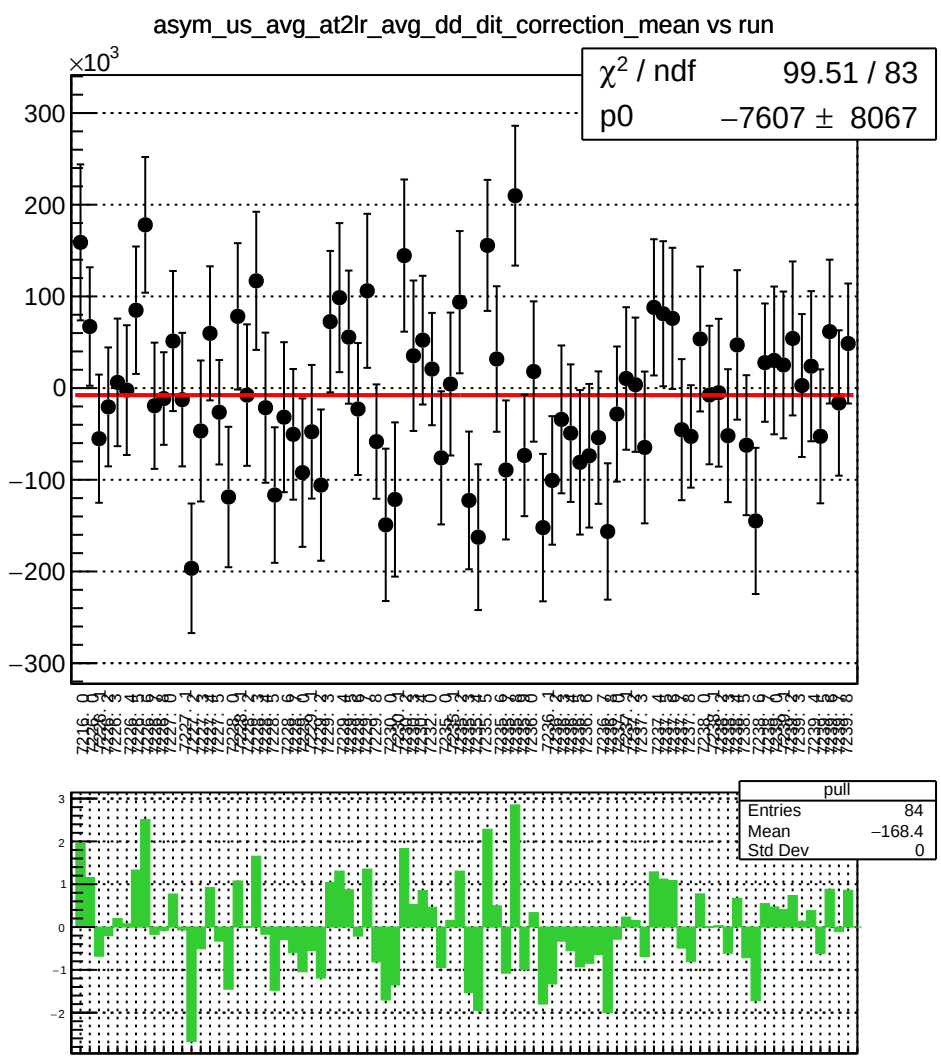

pull1D
Entries 84
Mean 0.006685
Std Dev 1.093
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

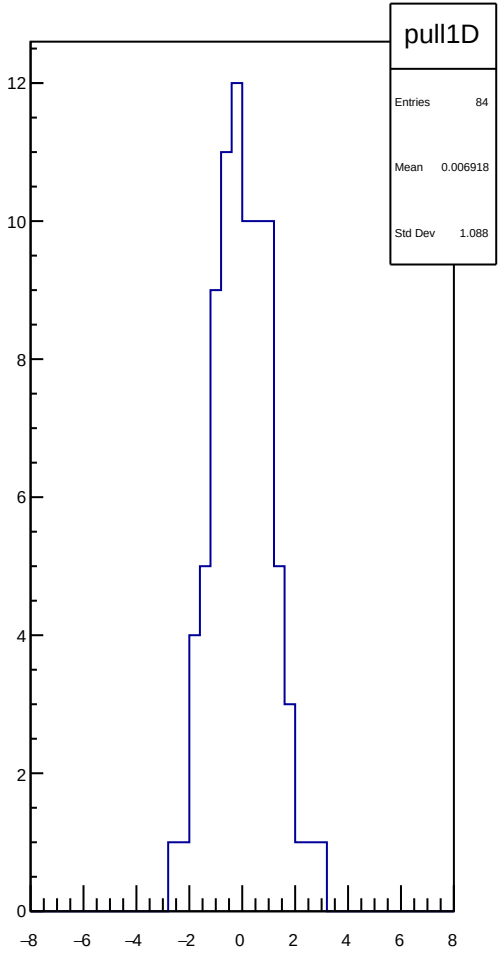

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 6367 / 83
p0 7605 ± 5.975
9000
8500
8000
7500
7000
6500

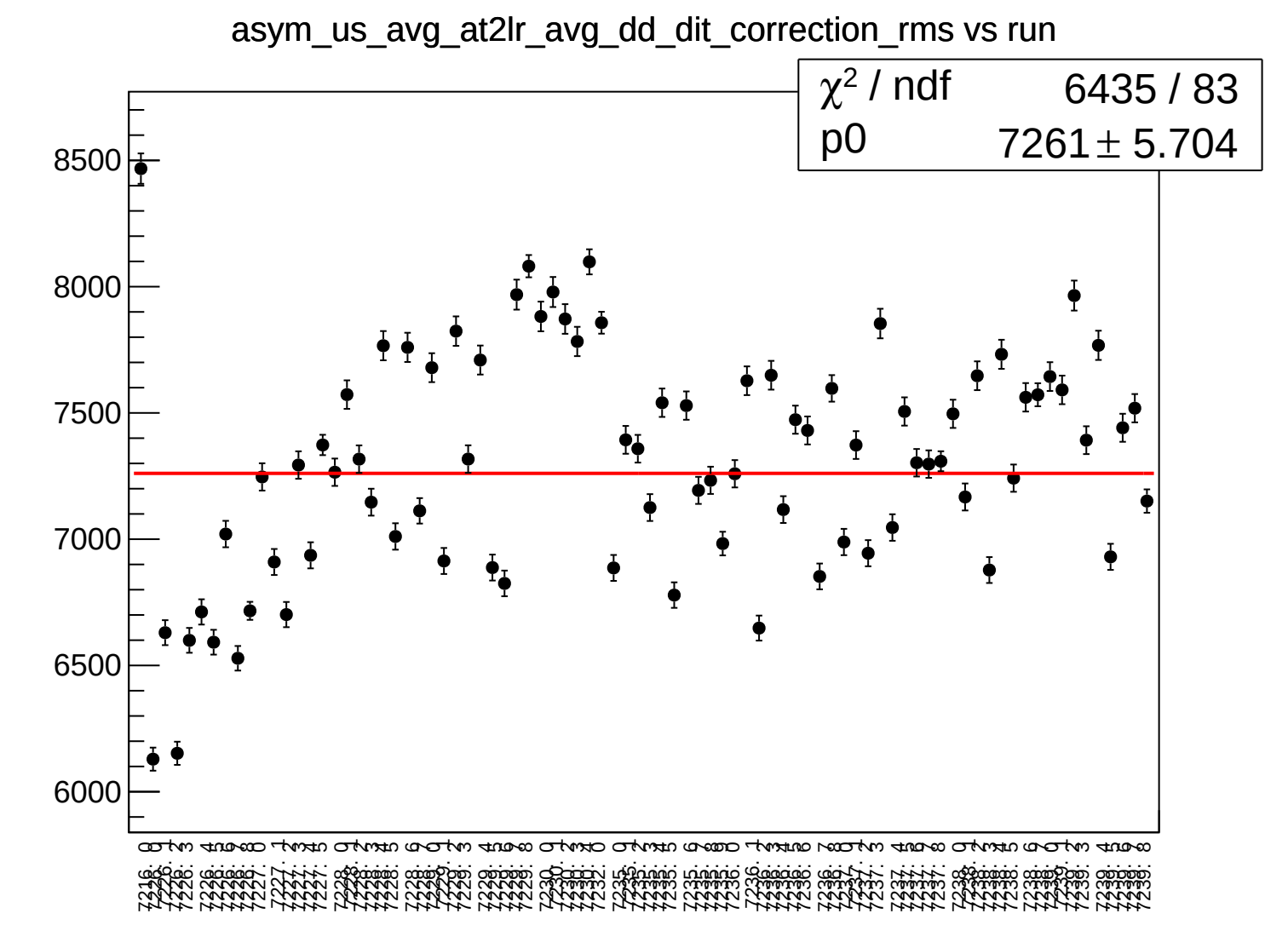

dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 113.5 / 83
p0 −777.5 ± 1722
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean −128.3
Std Dev 0
2
1
0
−1
−2
−3

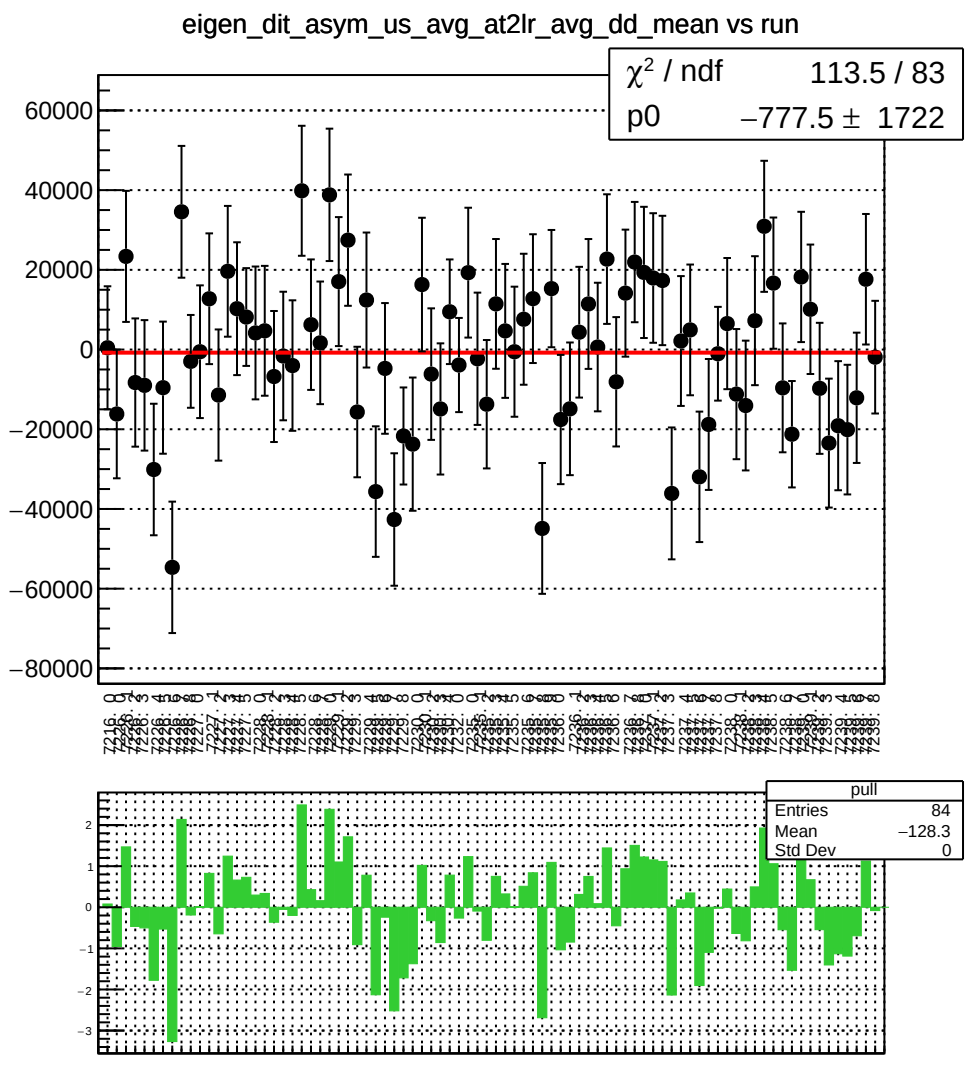

pull1D
Entries 84
Mean 0.005053
Std Dev 1.162
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

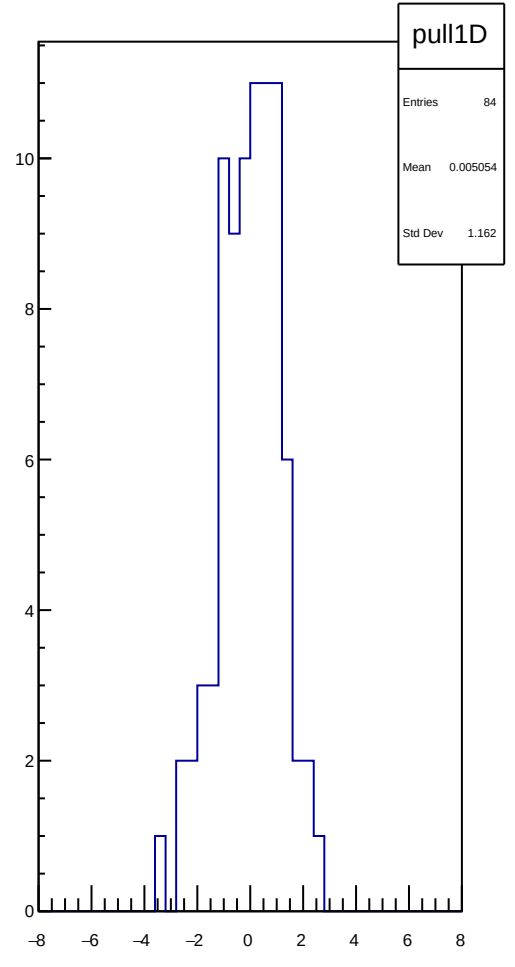

dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 232.3 / 83
p0 1553 ± 1.218
1620
1600
1580
1560
1540
1520
1500

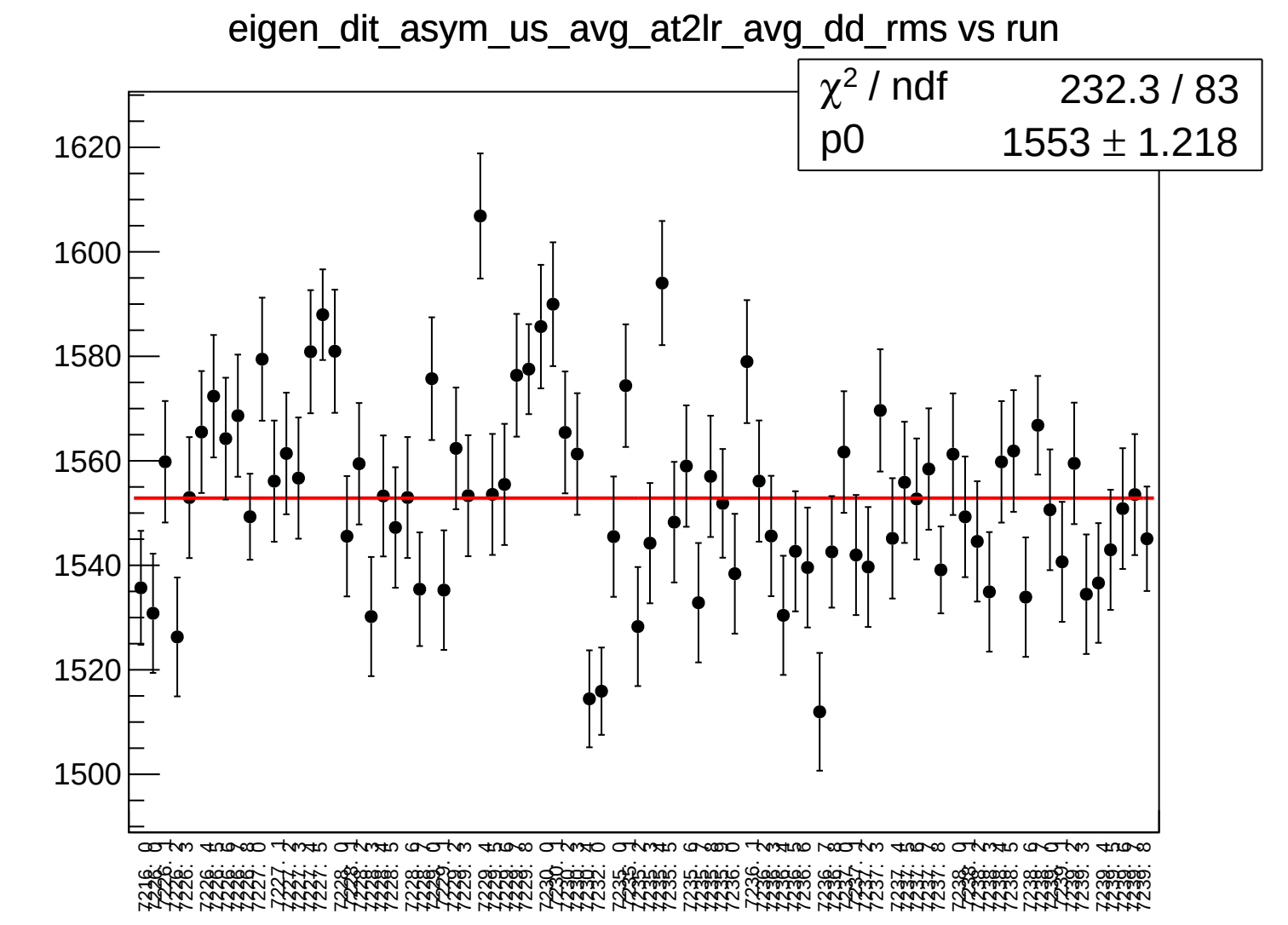

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 99.51 / 83
p0 −7607 ± 8067
pull
Entries 84
Mean −168.4
Std Dev 0

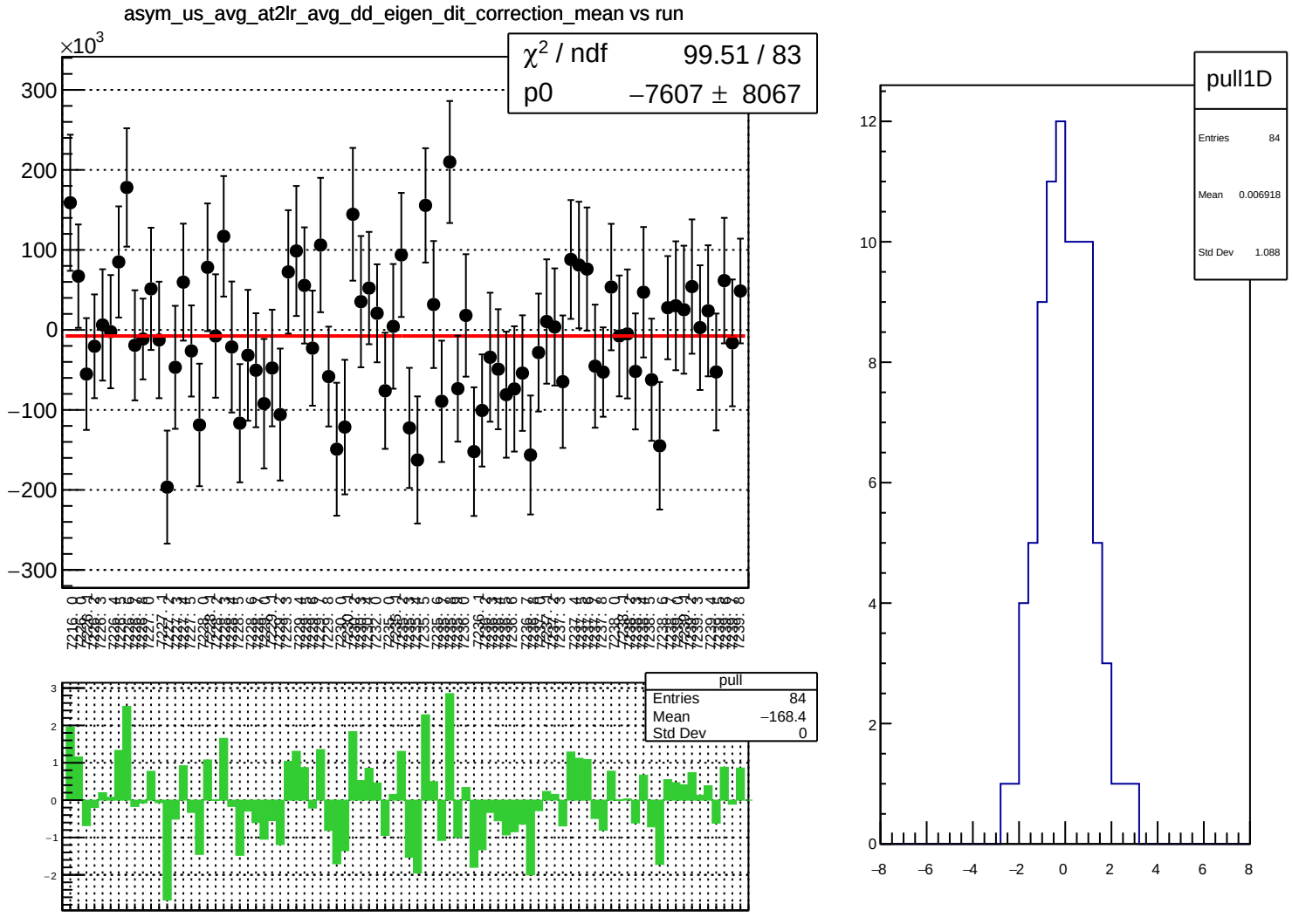

pull1D
Entries 84
Mean 0.006918
Std Dev 1.088

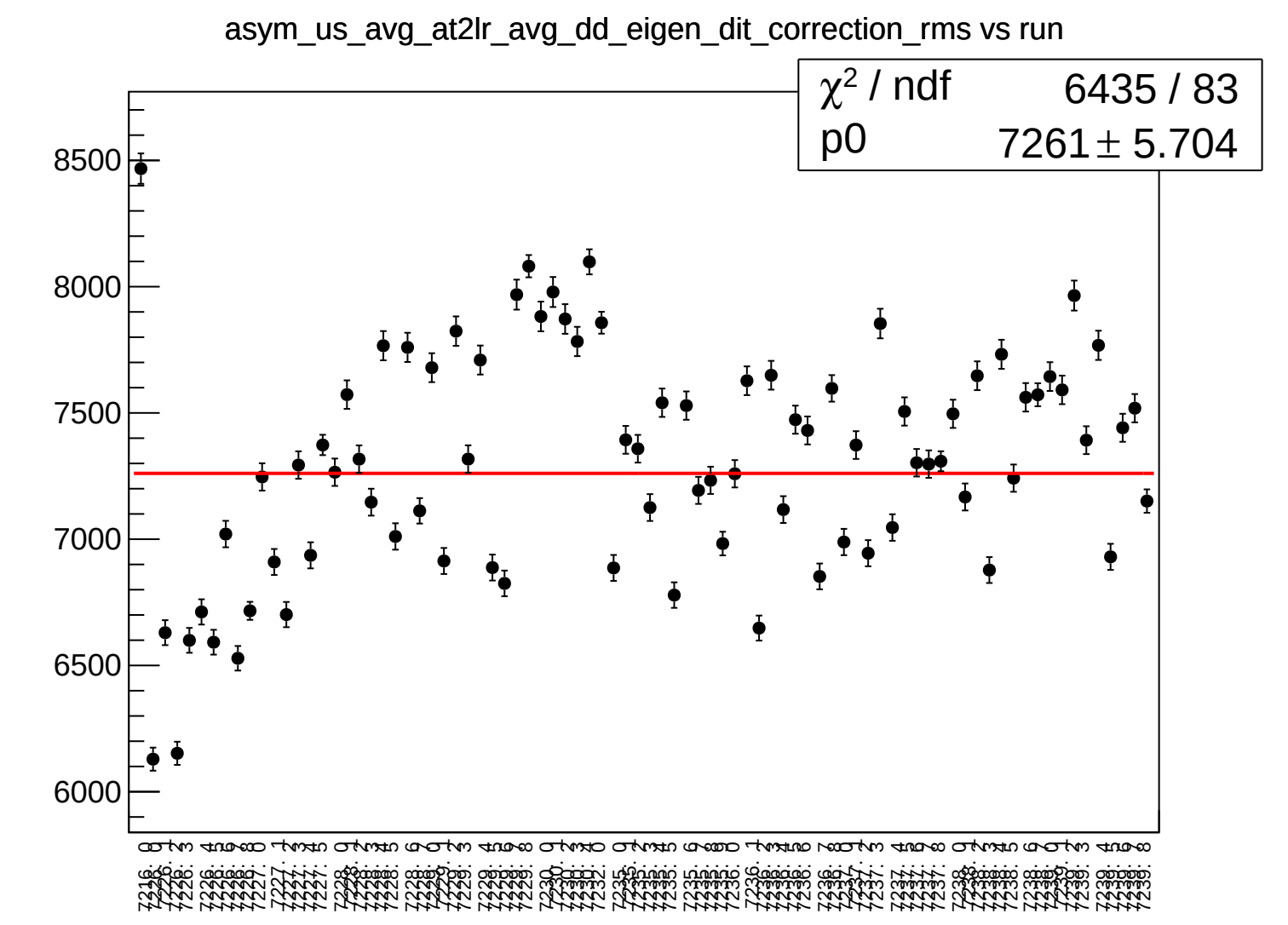

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 6435 / 83
p0 7261 ± 5.704
8500
8000
7500
7000
6500
6000

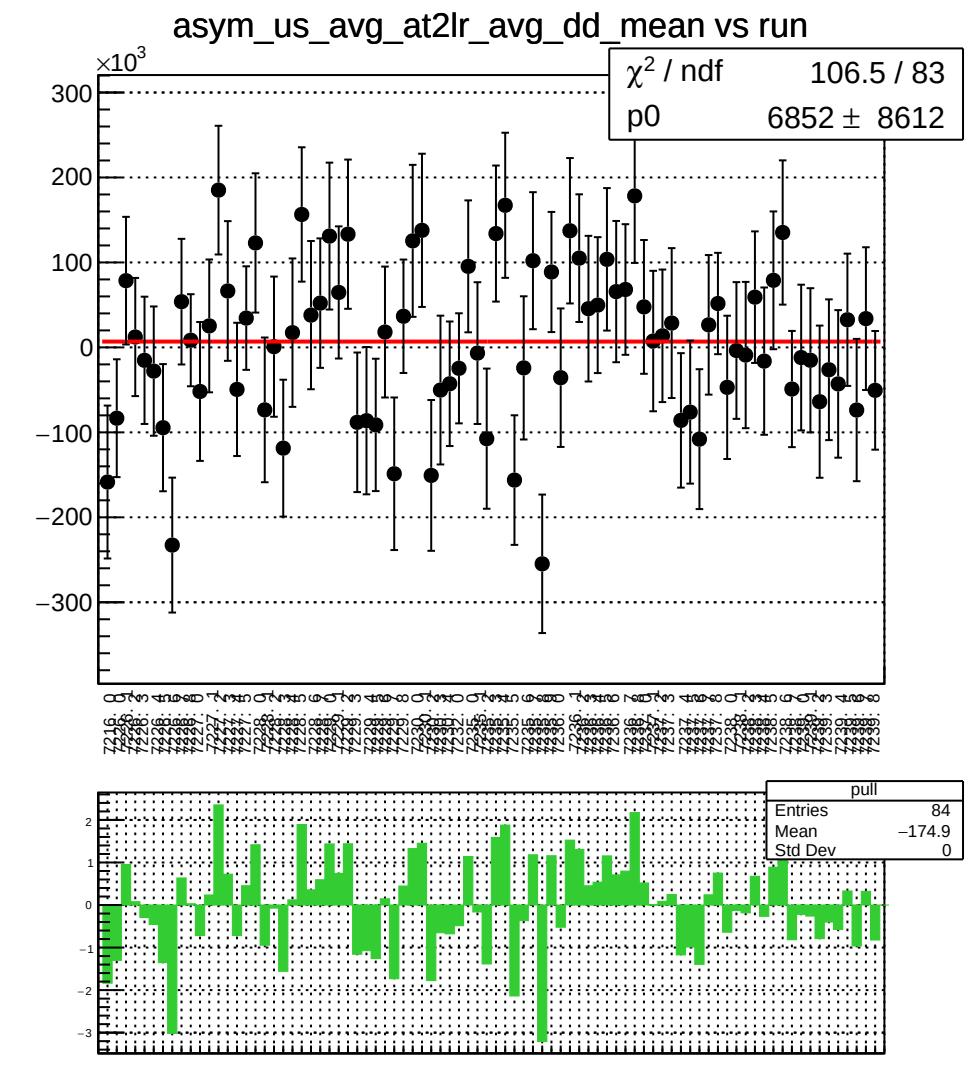

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 113.5 / 83
p0 −777.5 ± 1722
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean −128.3
Std Dev 0
2
1
0
−1
−2
−3

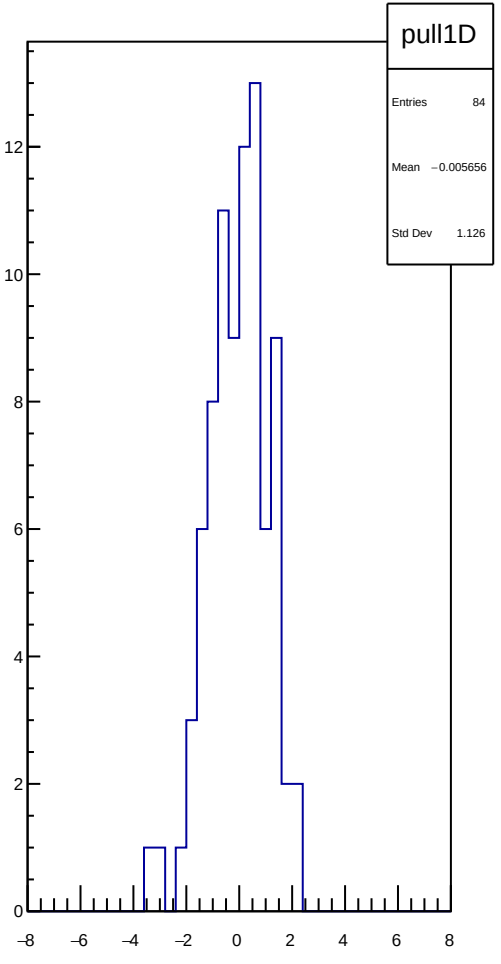

pull1D
Entries 84
Mean 0.005054
Std Dev 1.162
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

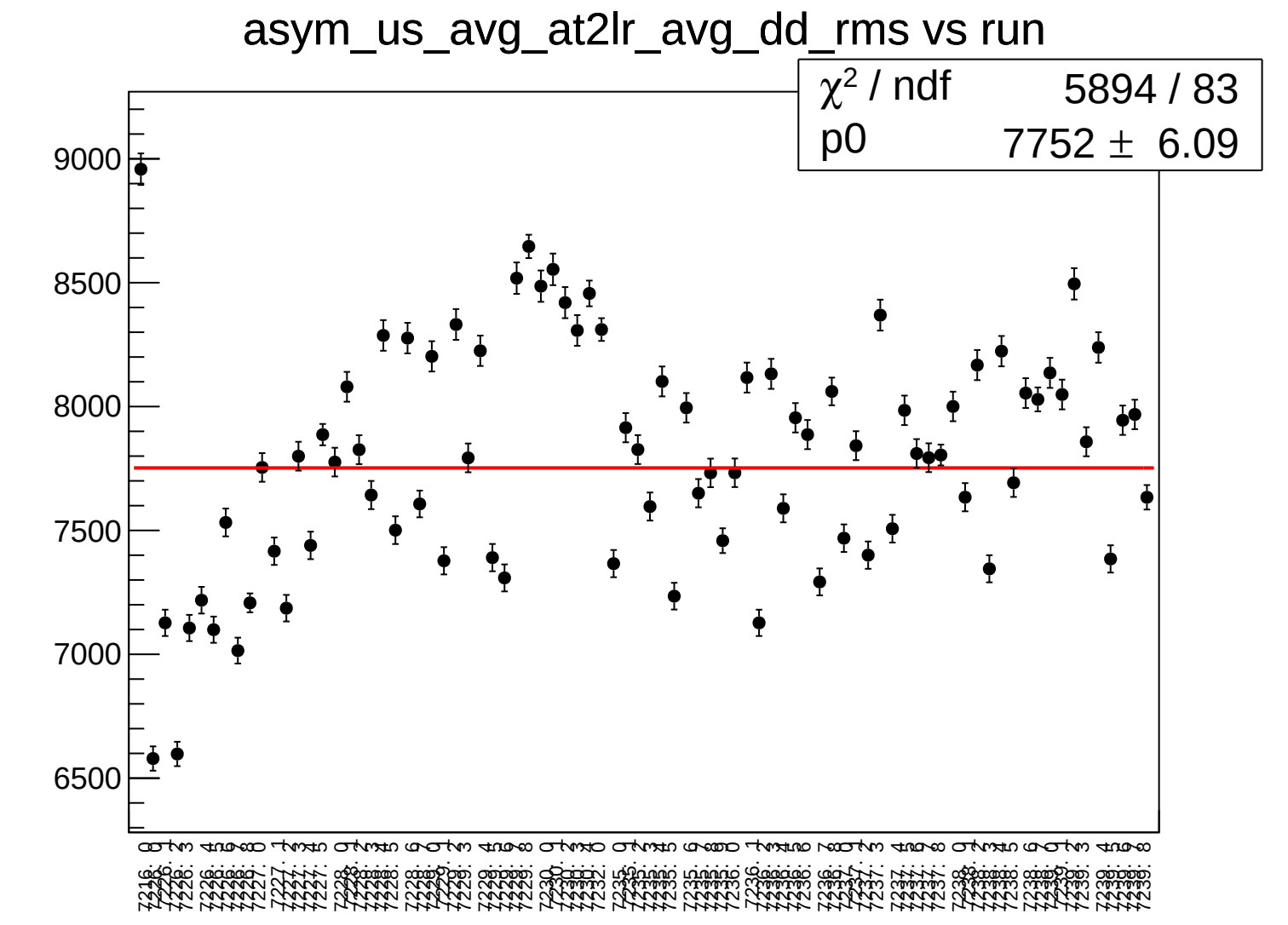

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 232.3 / 83
p0 1553 ± 1.218
1620
1600
1580
1560
1540
1520
1500

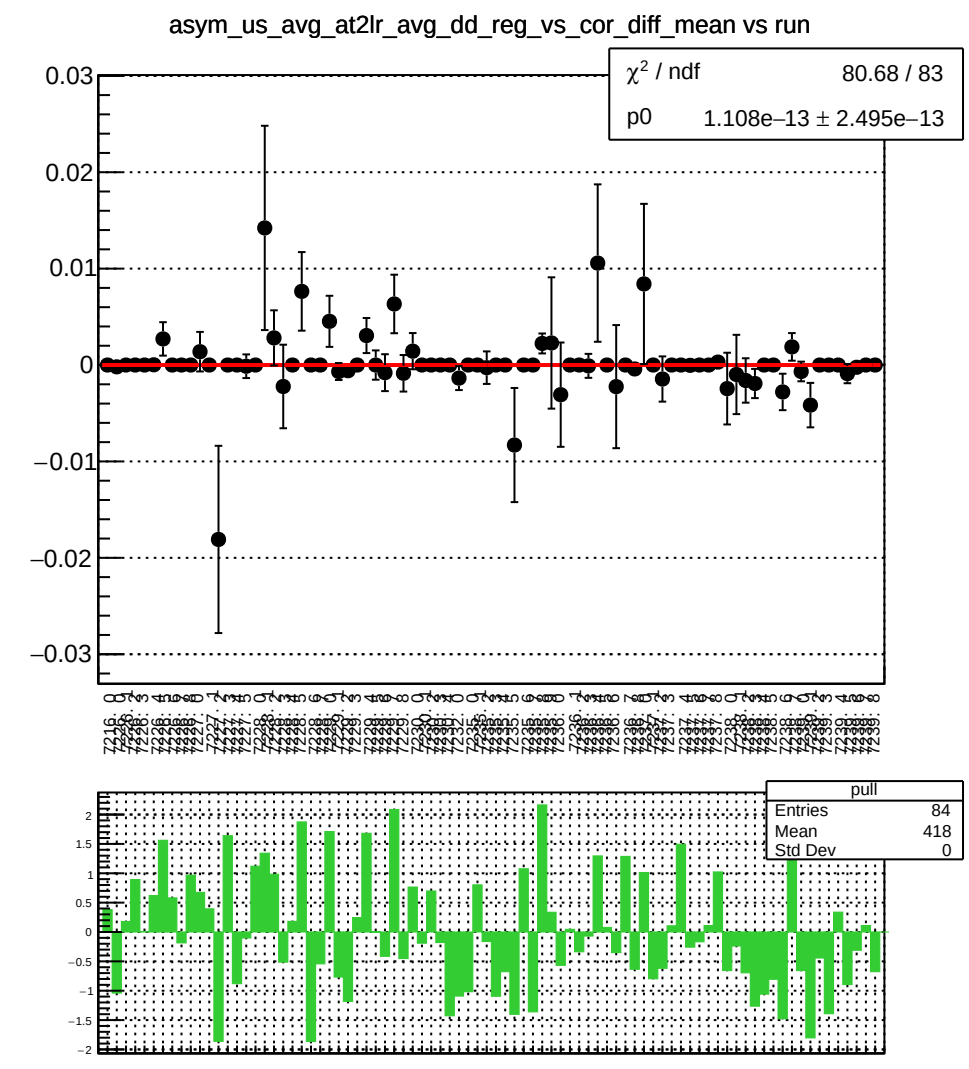

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 99.51 / 83
p0 −7607 ± 8067
pull
Entries 84
Mean −168.4
Std Dev 0
pull1D
Entries 84
Mean 0.006918
Std Dev 1.088

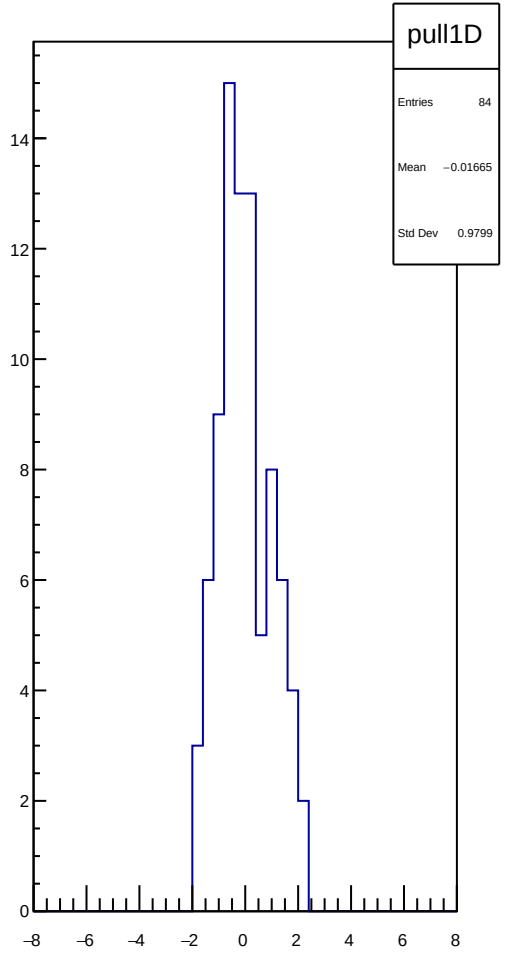

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 6435 / 83
p0 7261 ± 5.704
8500
8000
7500
7000
6500
6000

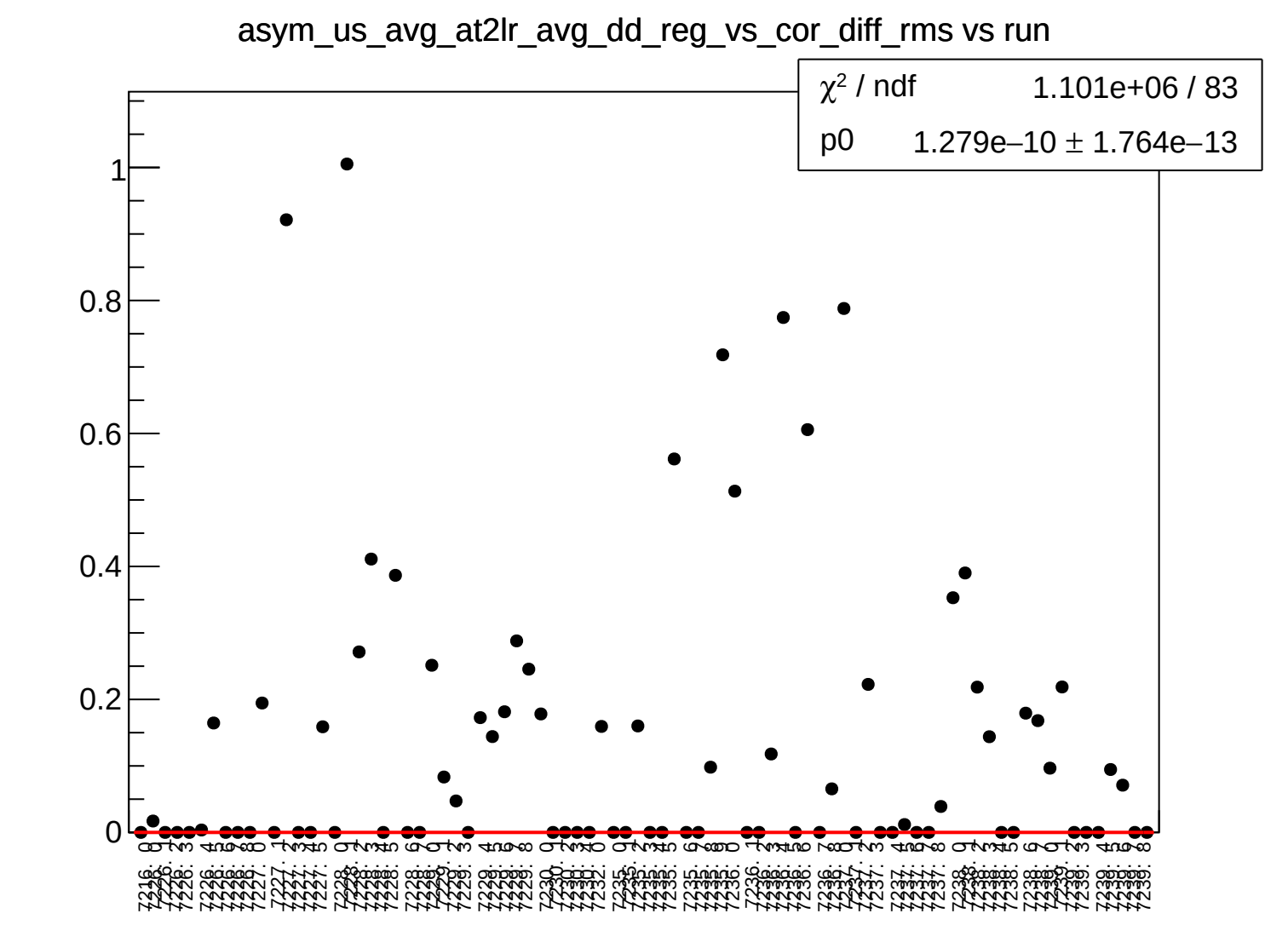

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 106.5 / 83
p0 6852 ± 8612
pull
Entries 84
Mean −174.9
Std Dev 0

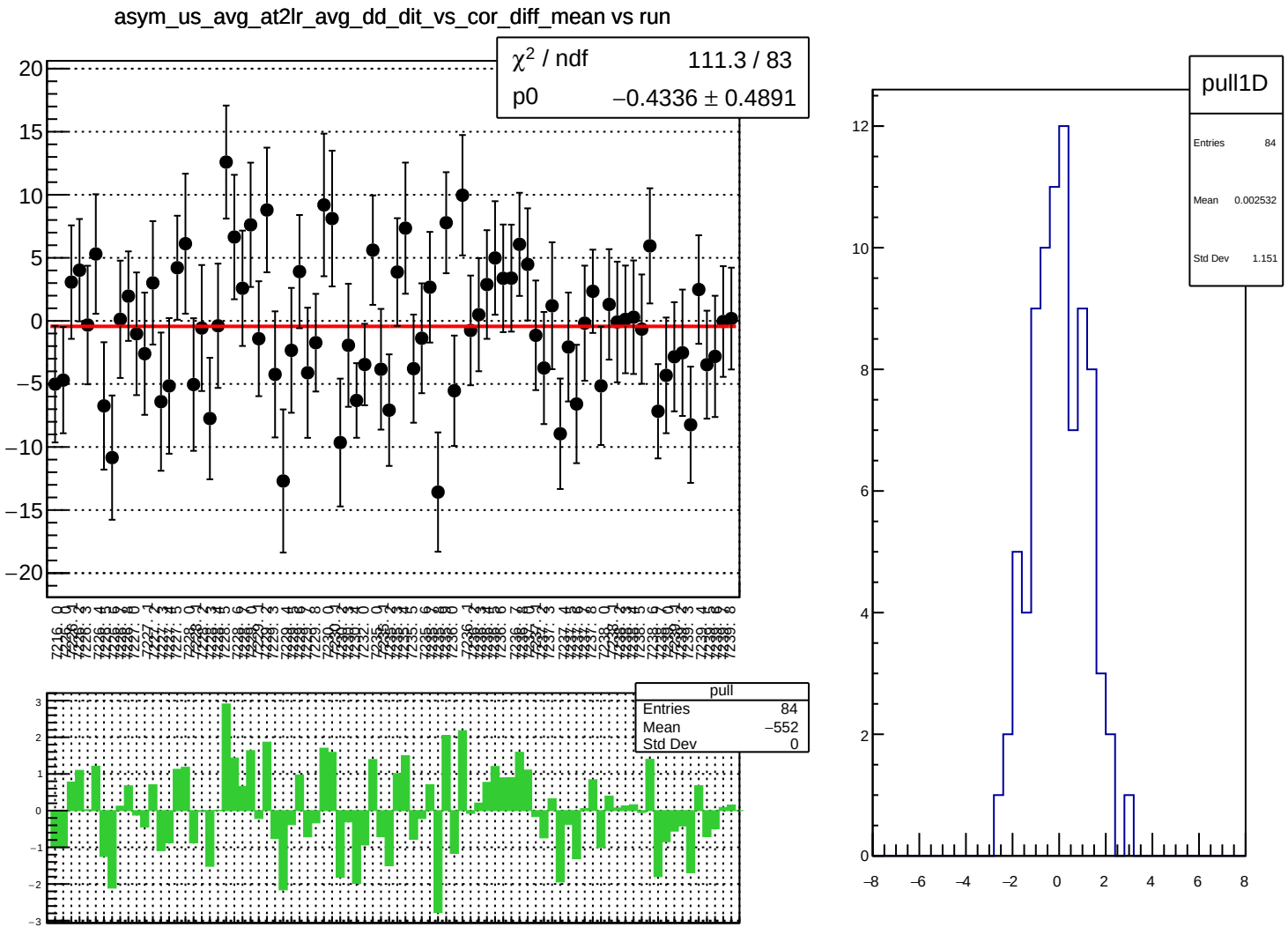

pull1D
Entries 84
Mean −0.005656
Std Dev 1.126

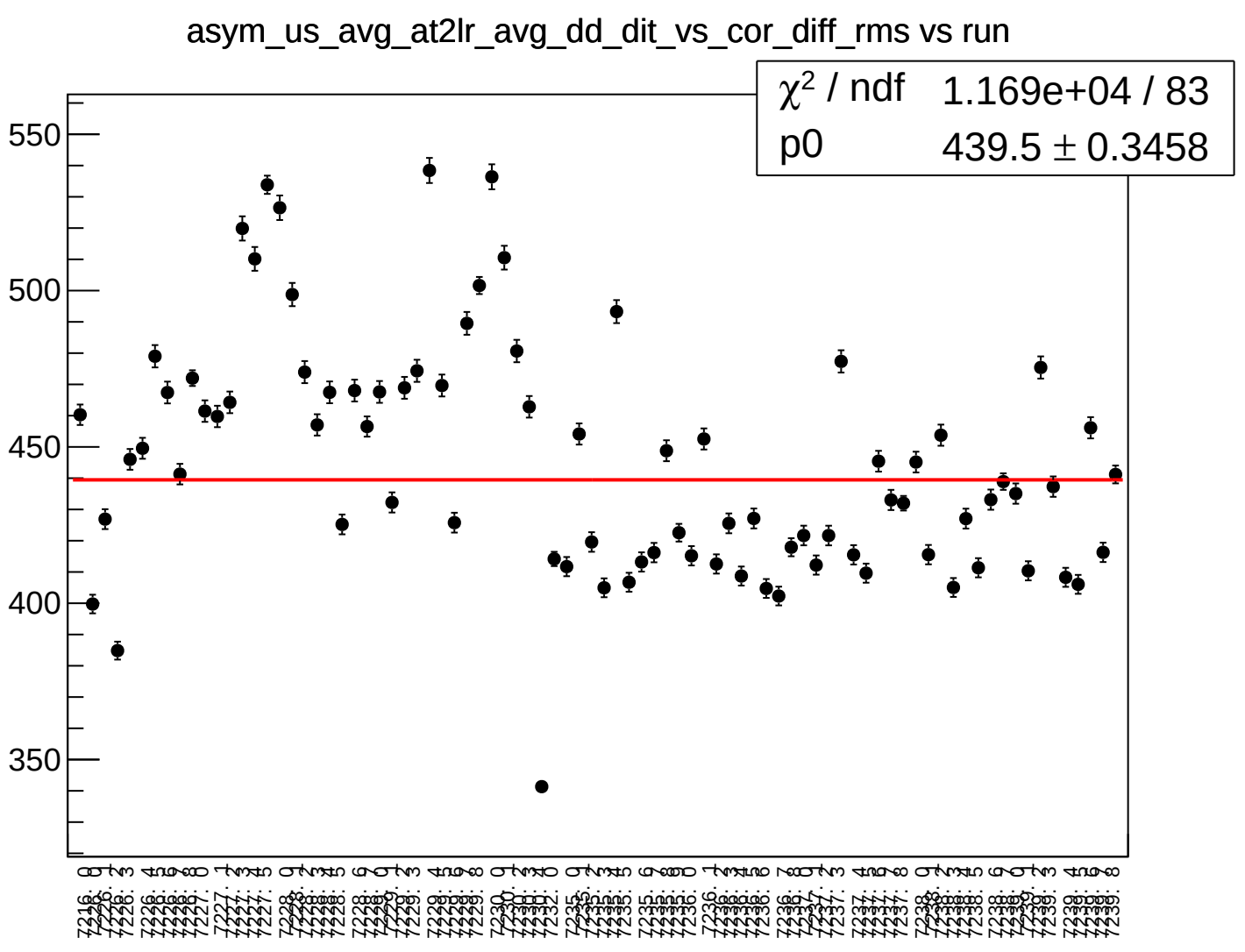

asym_us_avg_at2lr_avg_dd_rms vs run
χ^2 / ndf 5894 / 83
p0 7752 ± 6.09
9000
8500
8000
7500
7000
6500

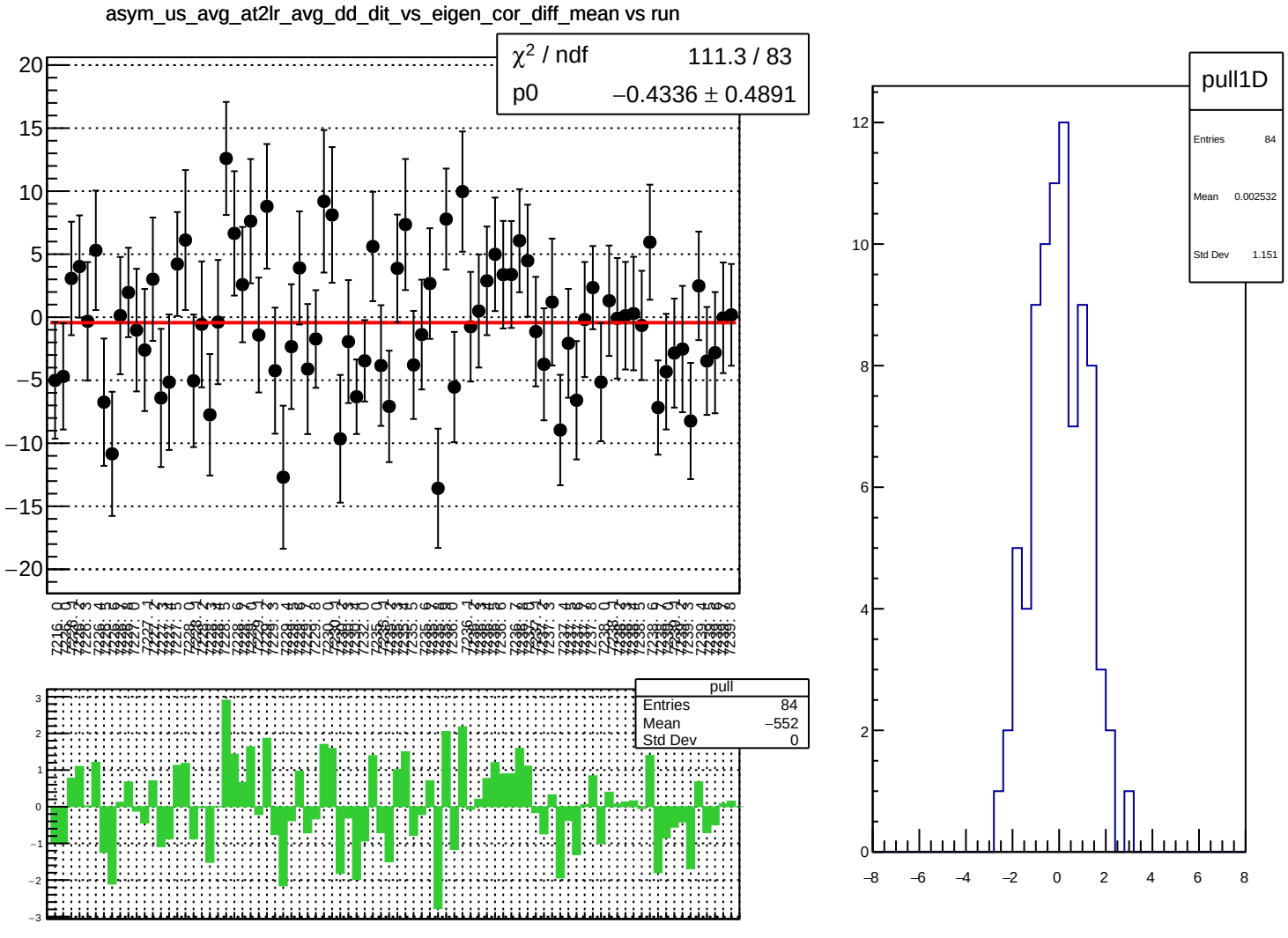

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 80.68 / 83
p0 1.108e−13 ± 2.495e−13
pull
Entries 84
Mean 418
Std Dev 0

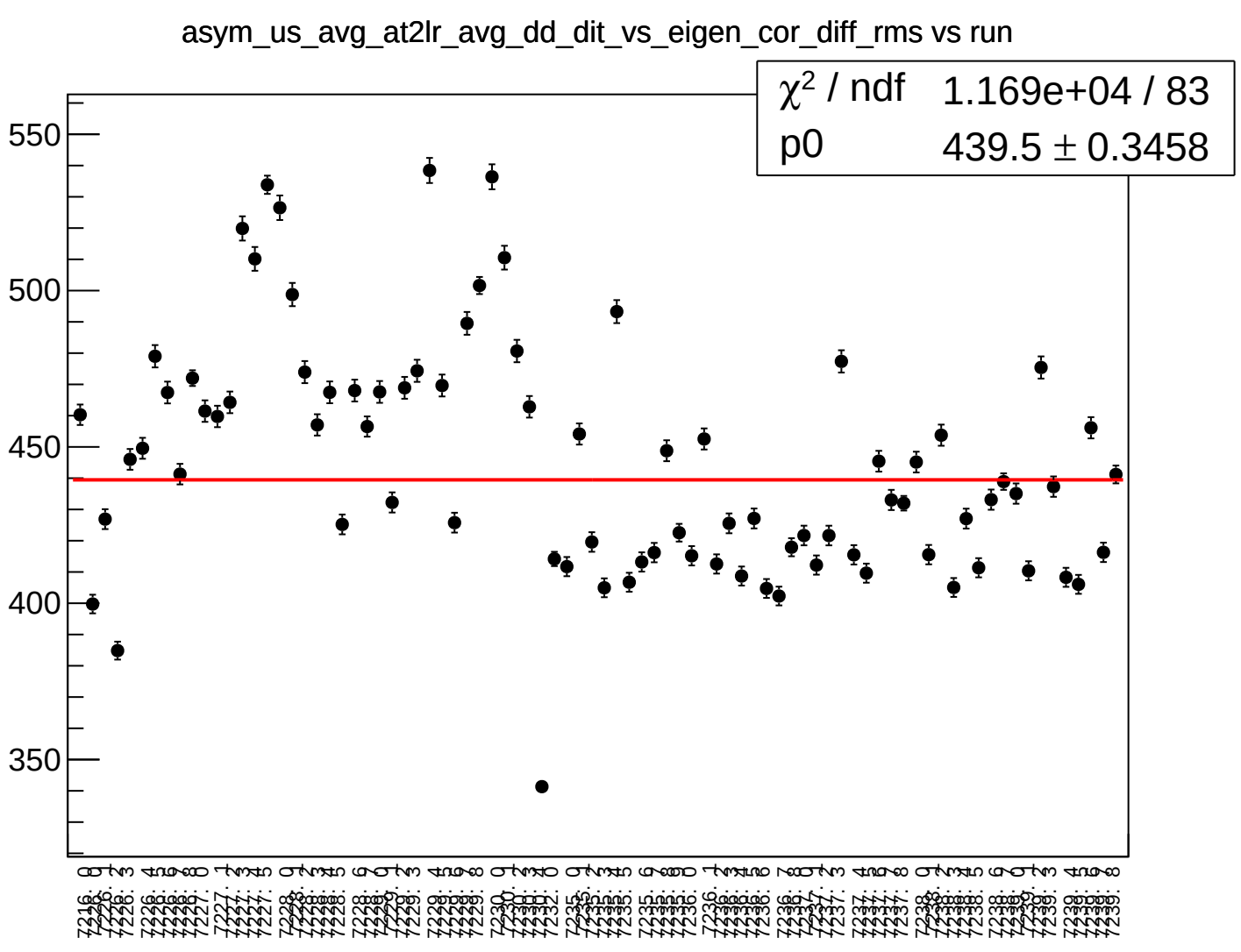

pull1D
Entries 84
Mean −0.01665
Std Dev 0.9799

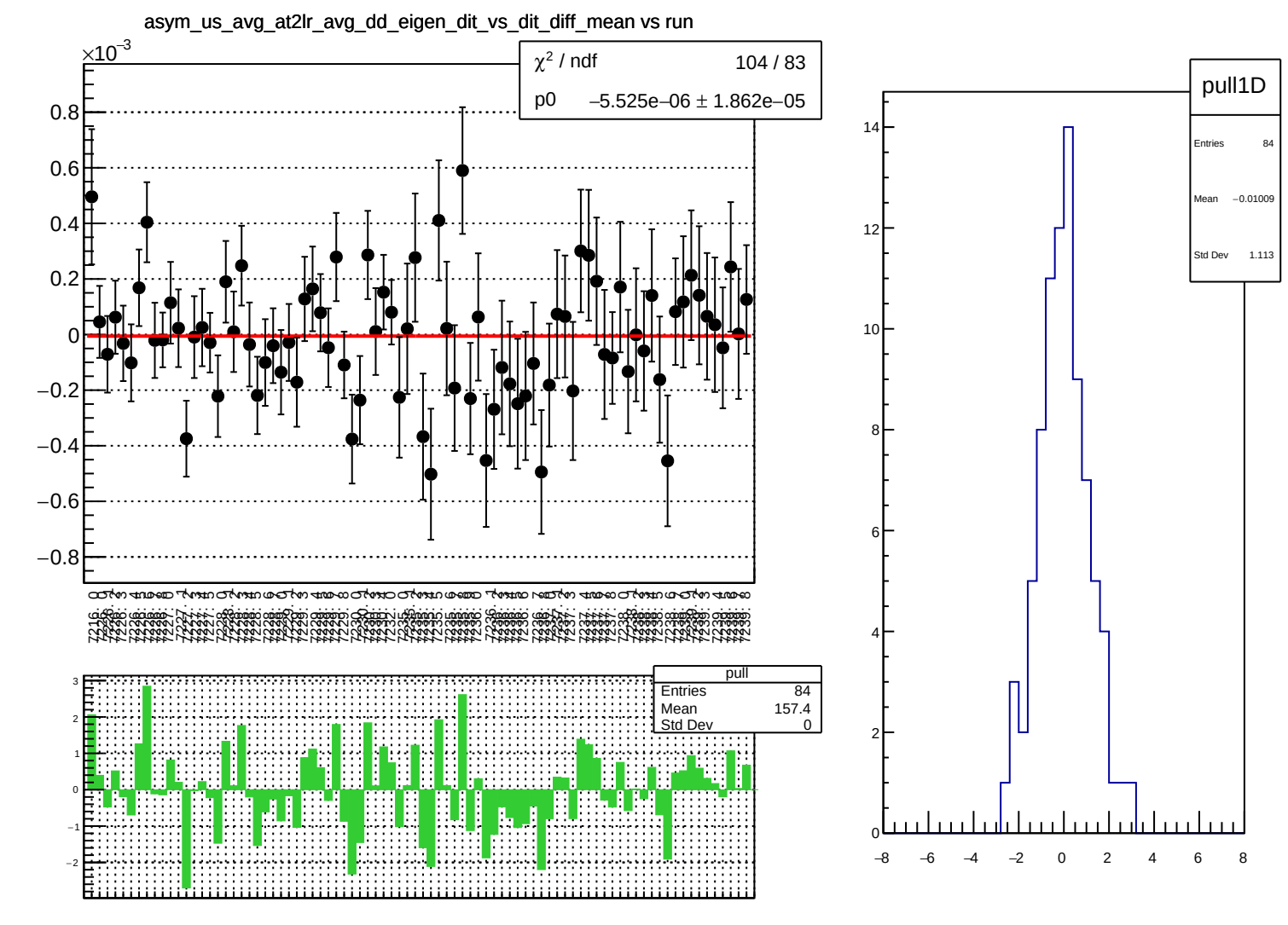

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.101e+06 / 83
p0 1.279e−10 ± 1.764e−13
1
0.8
0.6
0.4
0.2
0

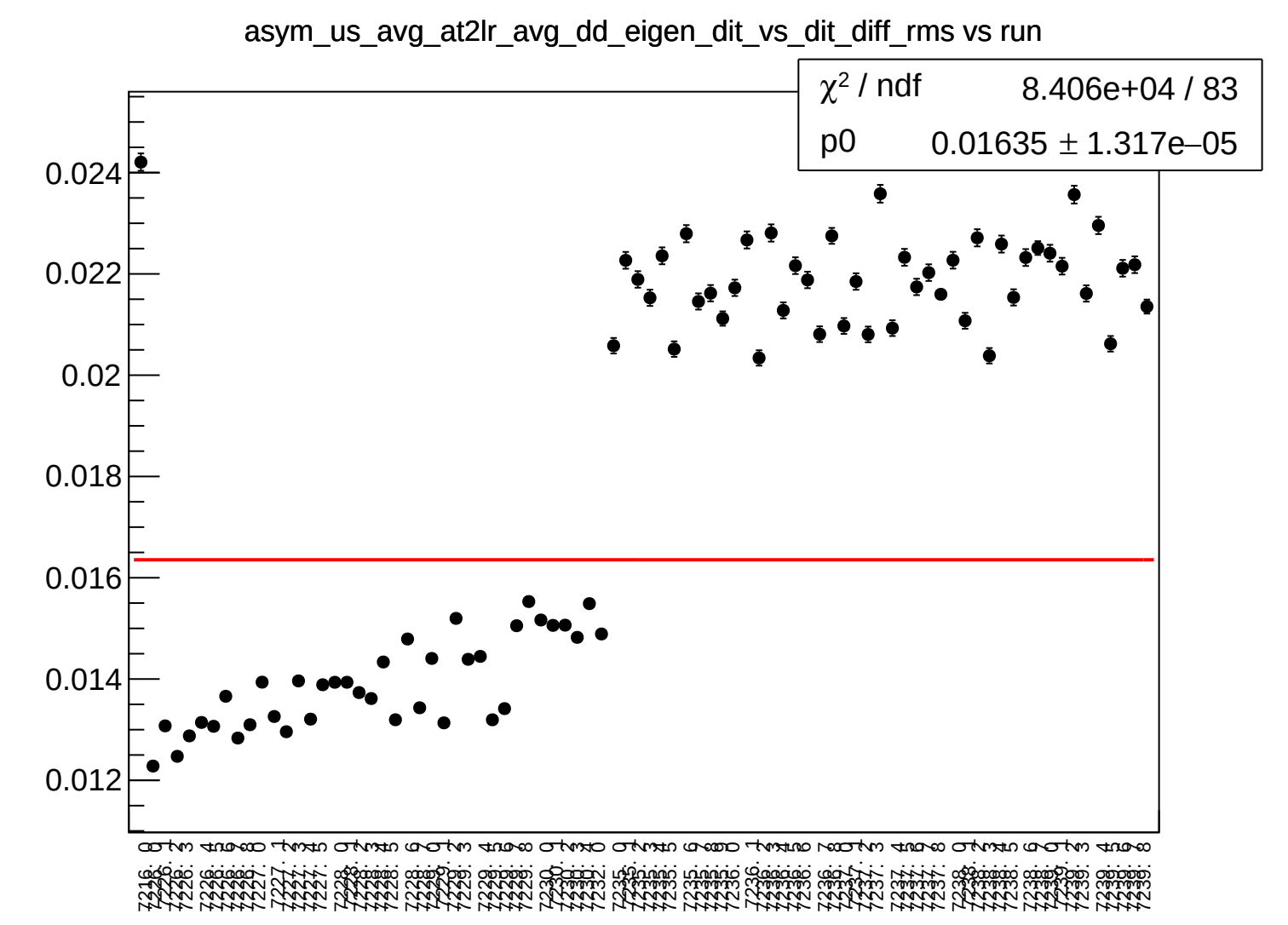

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 111.3 / 83
p0 −0.4336 ± 0.4891
pull
Entries 84
Mean −552
Std Dev 0
pull1D
Entries 84
Mean 0.002532
Std Dev 1.151

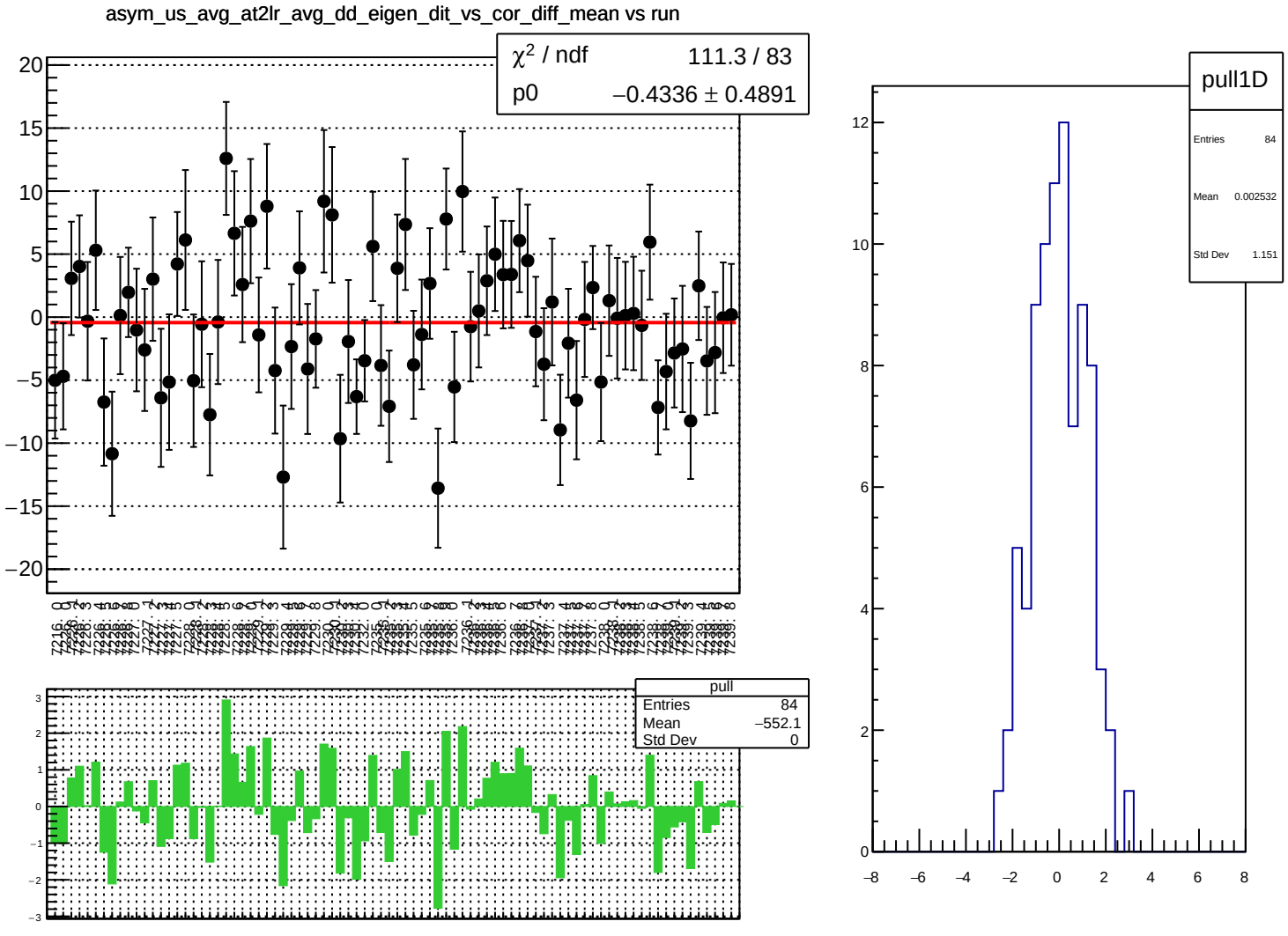

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.169e+04 / 83
p0 439.5 ± 0.3458
550
500
450
400
350

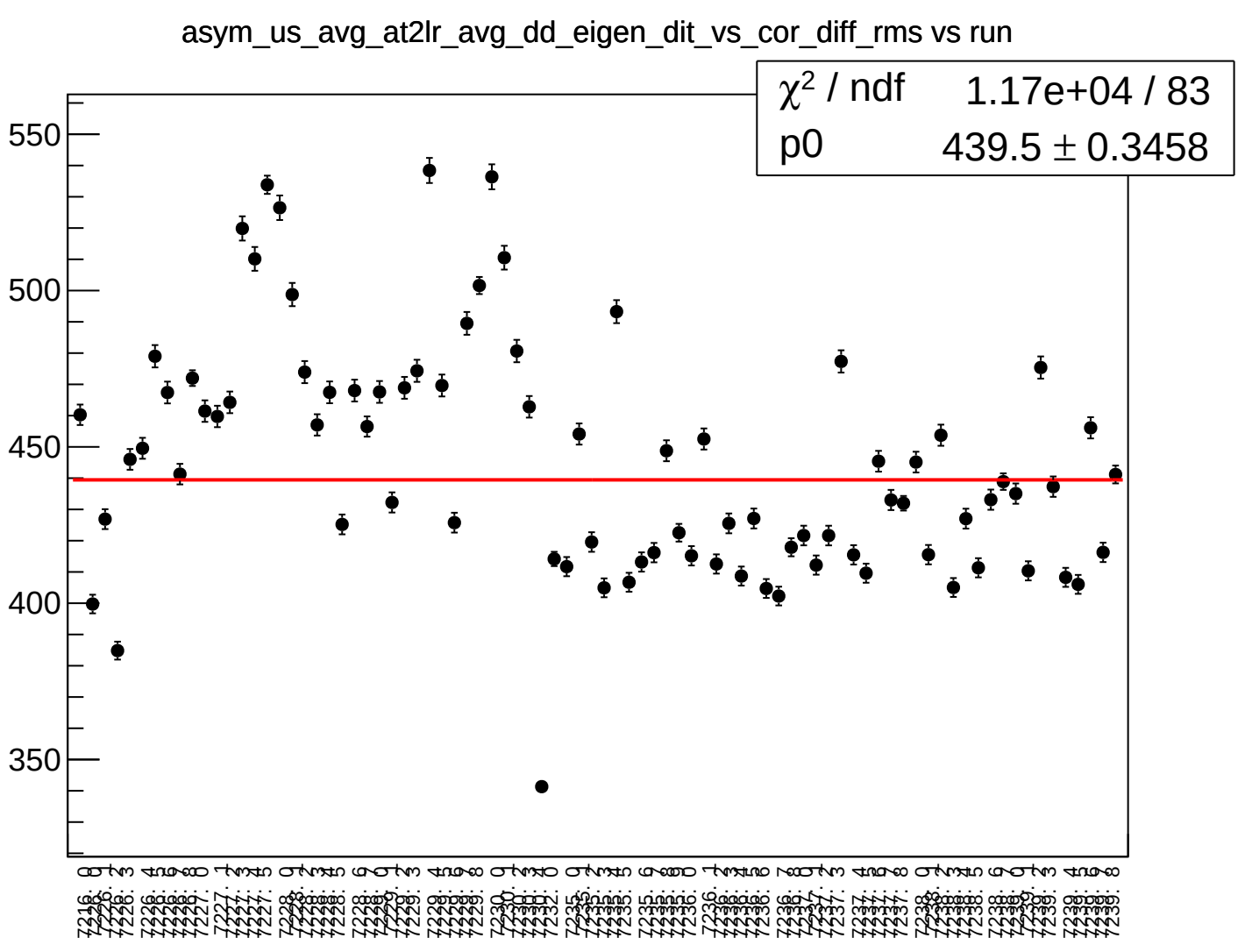

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 111.3 / 83
p0 −0.4336 ± 0.4891
pull
Entries 84
Mean −552
Std Dev 0
pull1D
Entries 84
Mean 0.002532
Std Dev 1.151

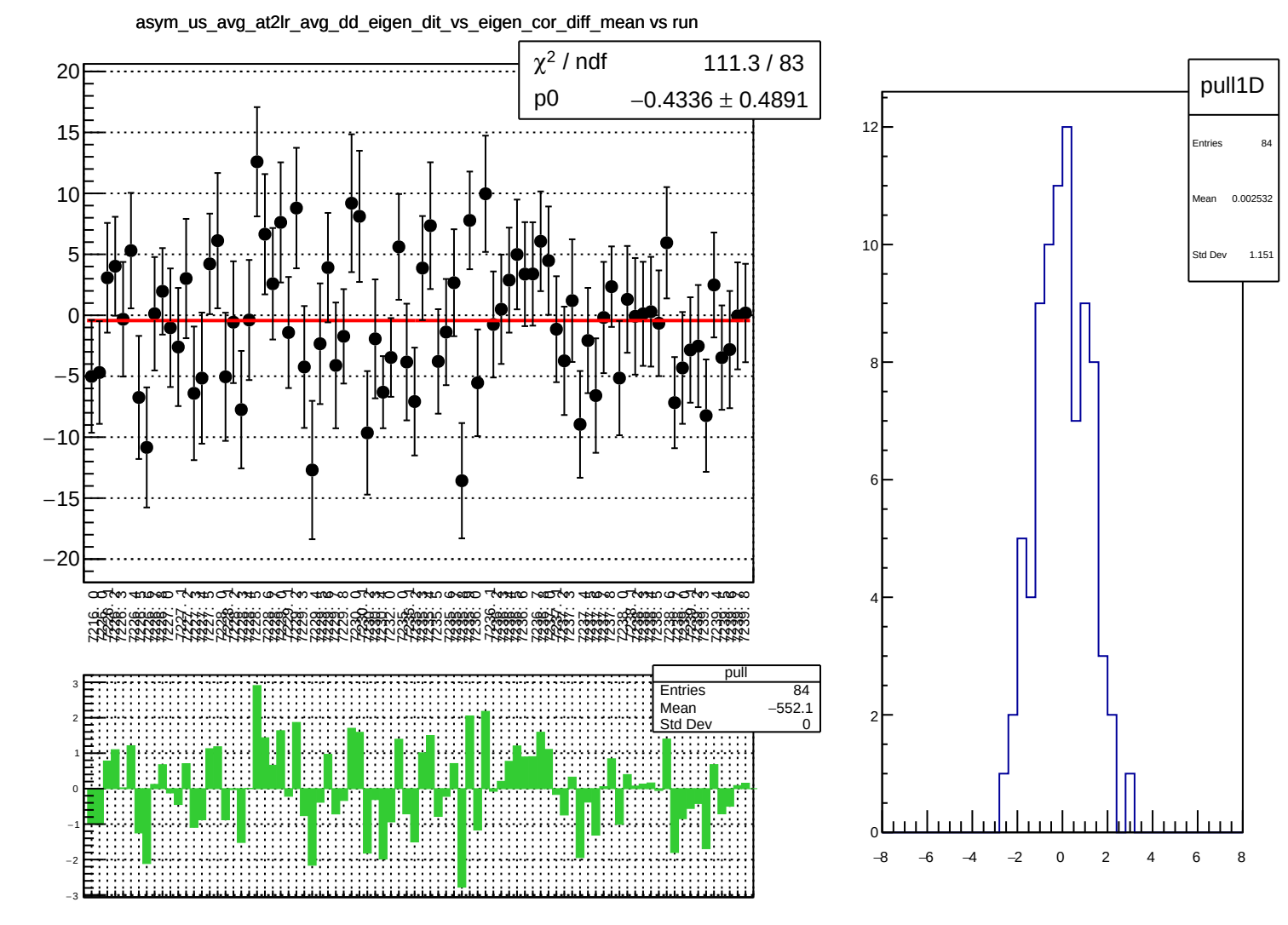

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.169e+04 / 83
p0 439.5 ± 0.3458
550
500
450
400
350

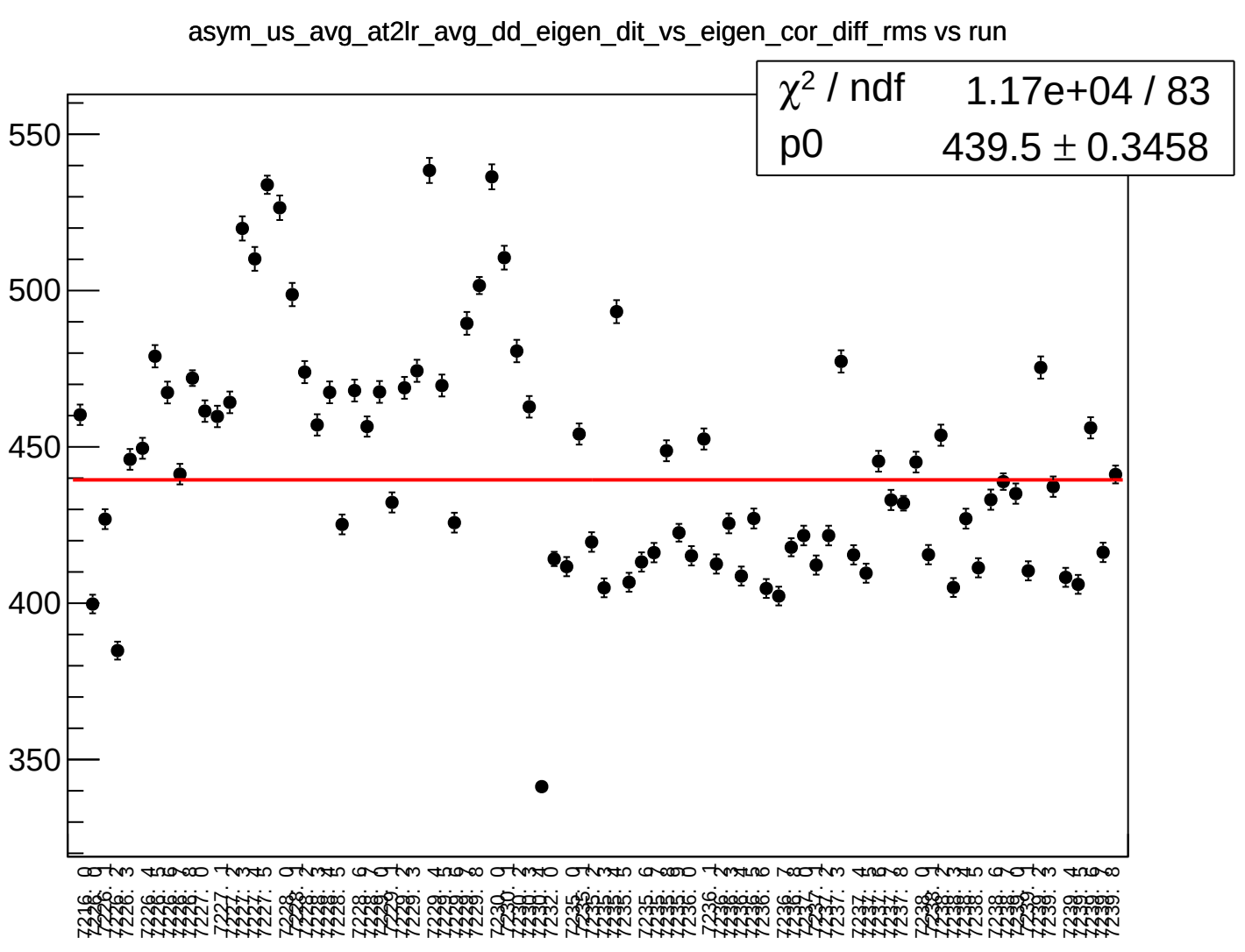

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 104 / 83
p0 −5.525e−06 ± 1.862e−05
pull
Entries 84
Mean 157.4
Std Dev 0
pull1D
Entries 84
Mean −0.01009
Std Dev 1.113

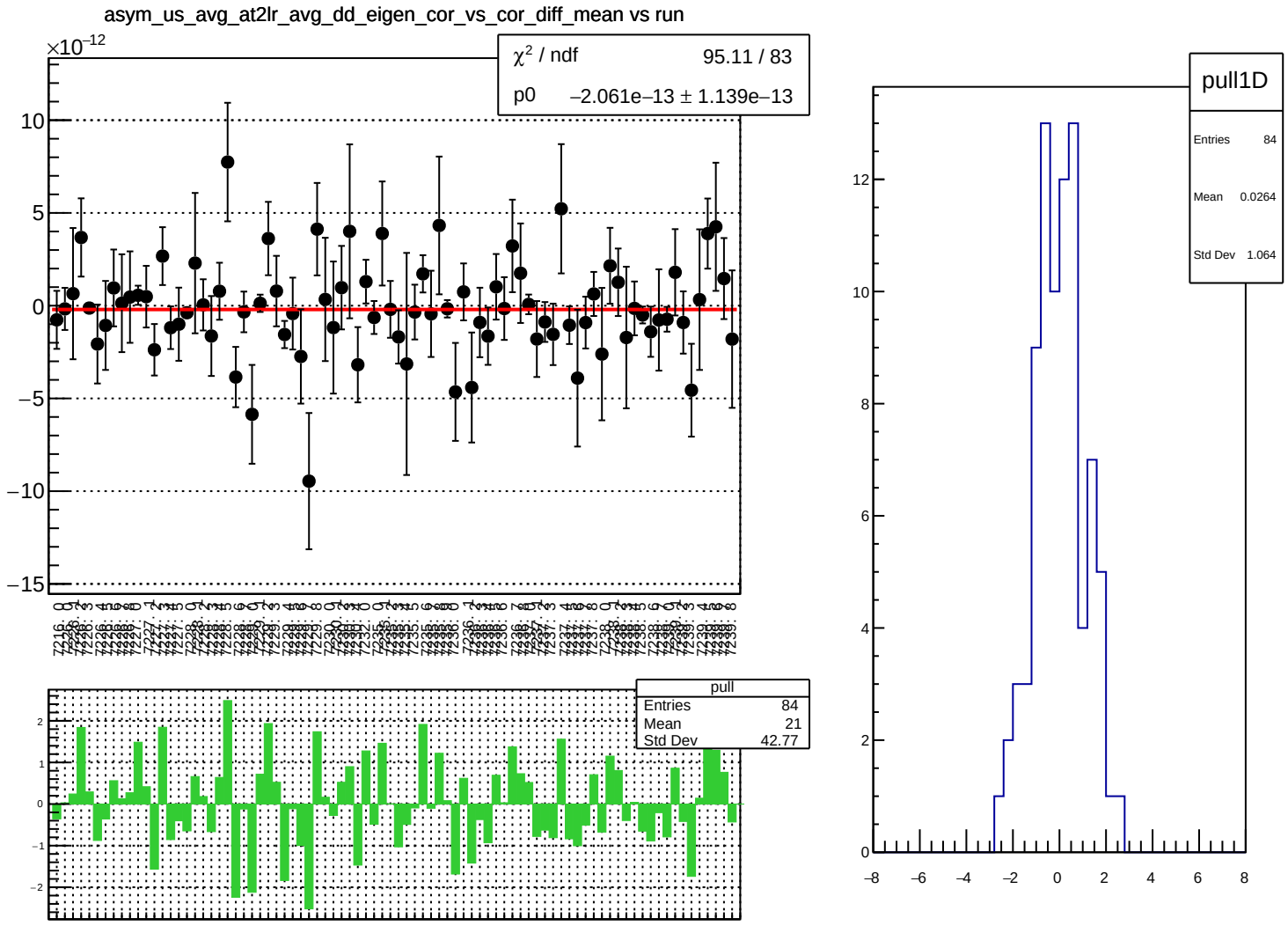

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.406e+04 / 83
p0 0.01635 ± 1.317e−05
0.024
0.022
0.02
0.018
0.016
0.014
0.012

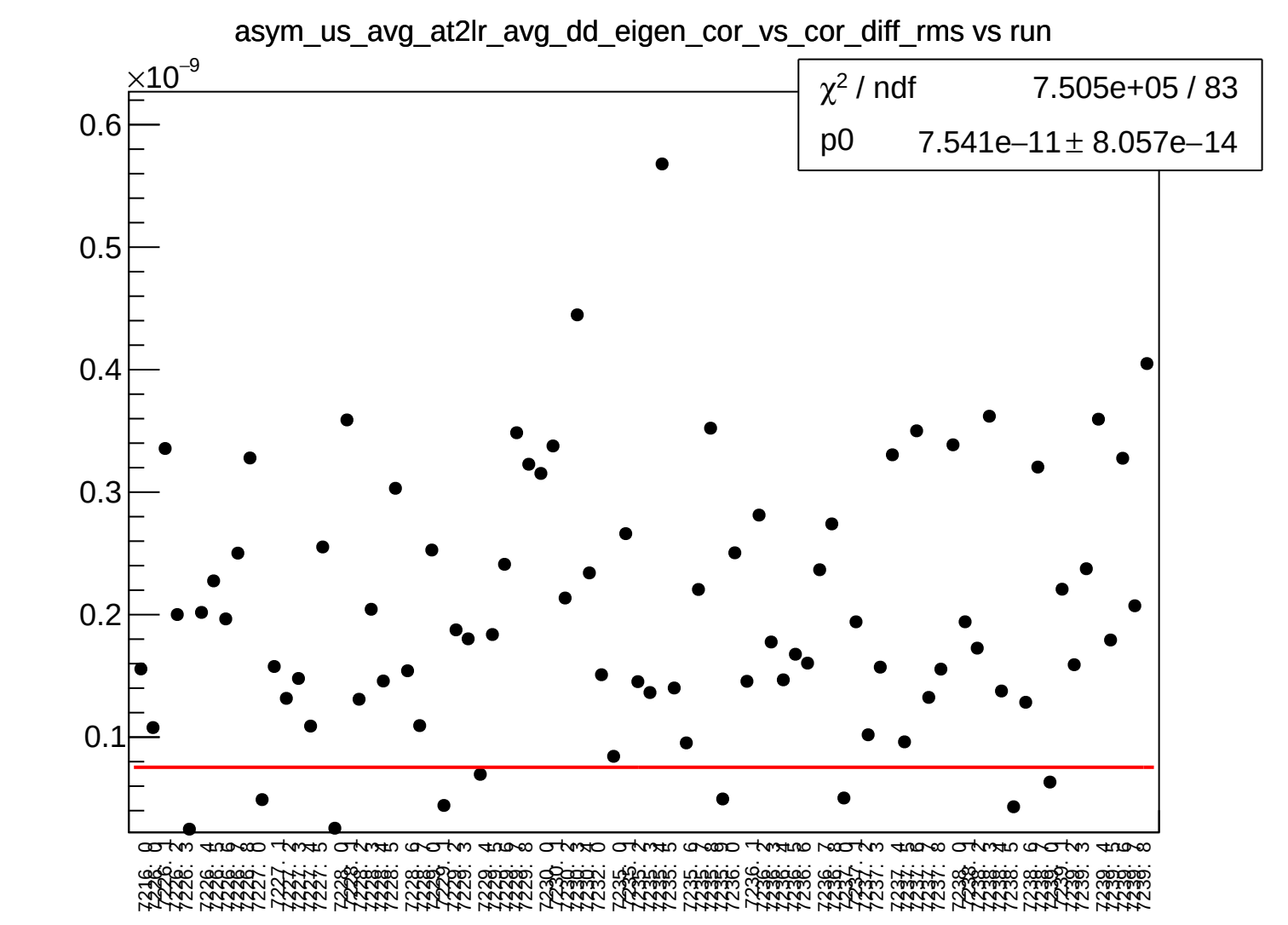

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 111.3 / 83
p0 −0.4336 ± 0.4891
pull
Entries 84
Mean −552.1
Std Dev 0
pull1D
Entries 84
Mean 0.002532
Std Dev 1.151

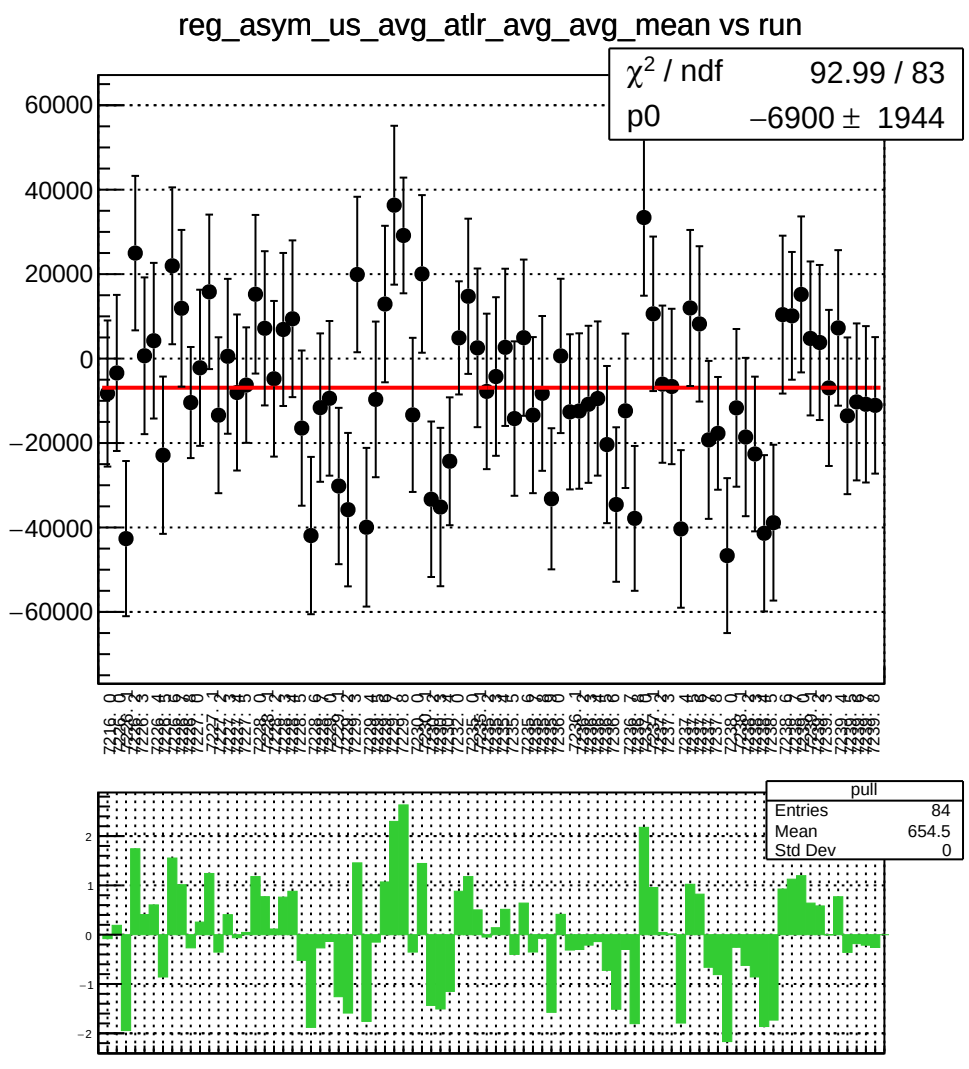

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.17e+04 / 83
p0 439.5 ± 0.3458
550
500
450
400
350

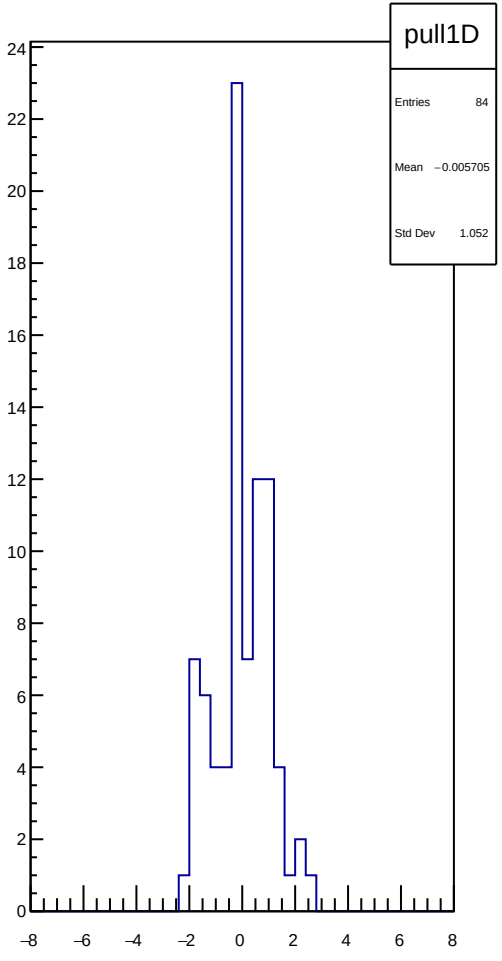

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 111.3 / 83
p0 −0.4336 ± 0.4891
pull
Entries 84
Mean −552.1
Std Dev 0
pull1D
Entries 84
Mean 0.002532
Std Dev 1.151

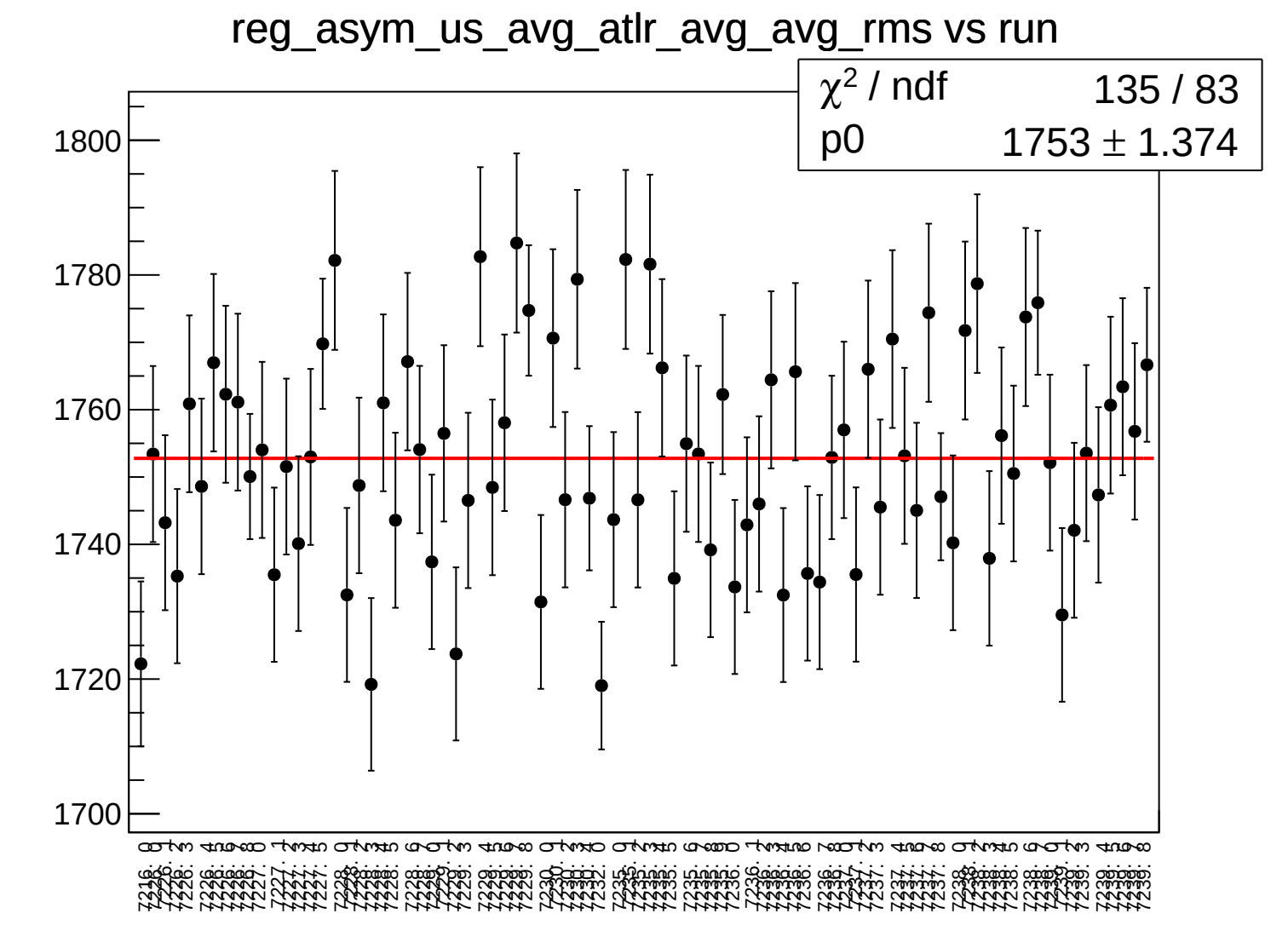

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.17e+04 / 83
p0 439.5 ± 0.3458
550
500
450
400
350

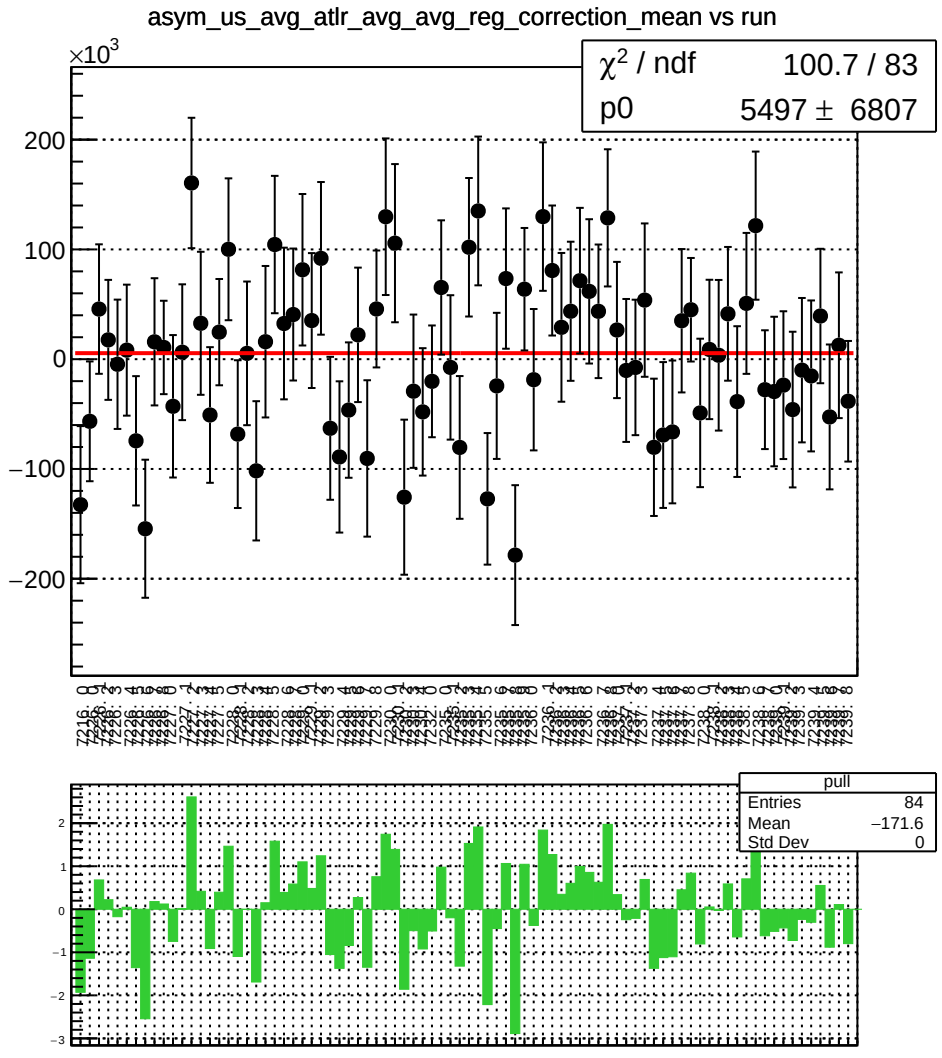

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.11 / 83
p0 −2.061e−13 ± 1.139e−13
10
5
0
−5
−10
−15
pull
Entries 84
Mean 21
Std Dev 42.77
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.0264
Std Dev 1.064
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

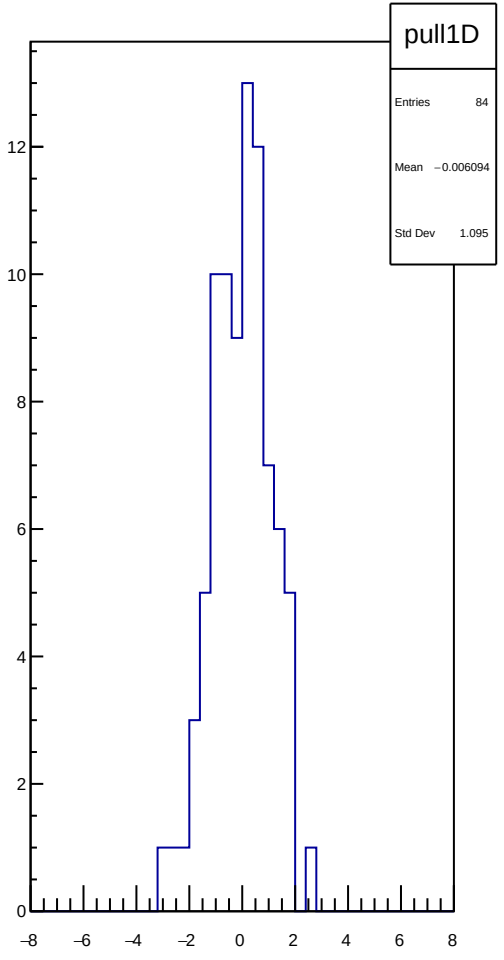

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.505e+05 / 83
p0 7.541e−11 ± 8.057e−14
0.6
0.5
0.4
0.3
0.2
0.1

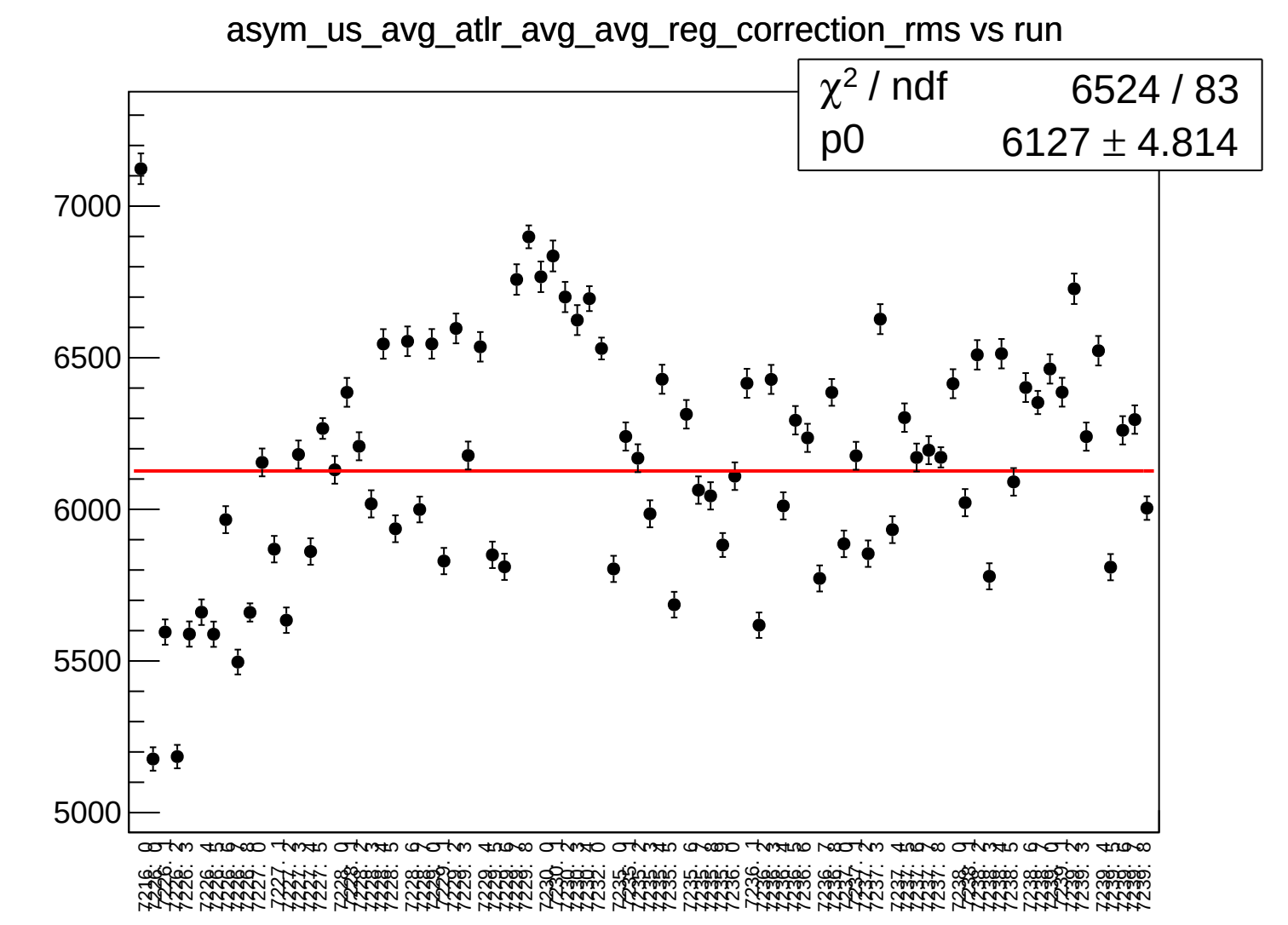

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 92.99 / 83
p0 −6900 ± 1944
pull
Entries 84
Mean 654.5
Std Dev 0

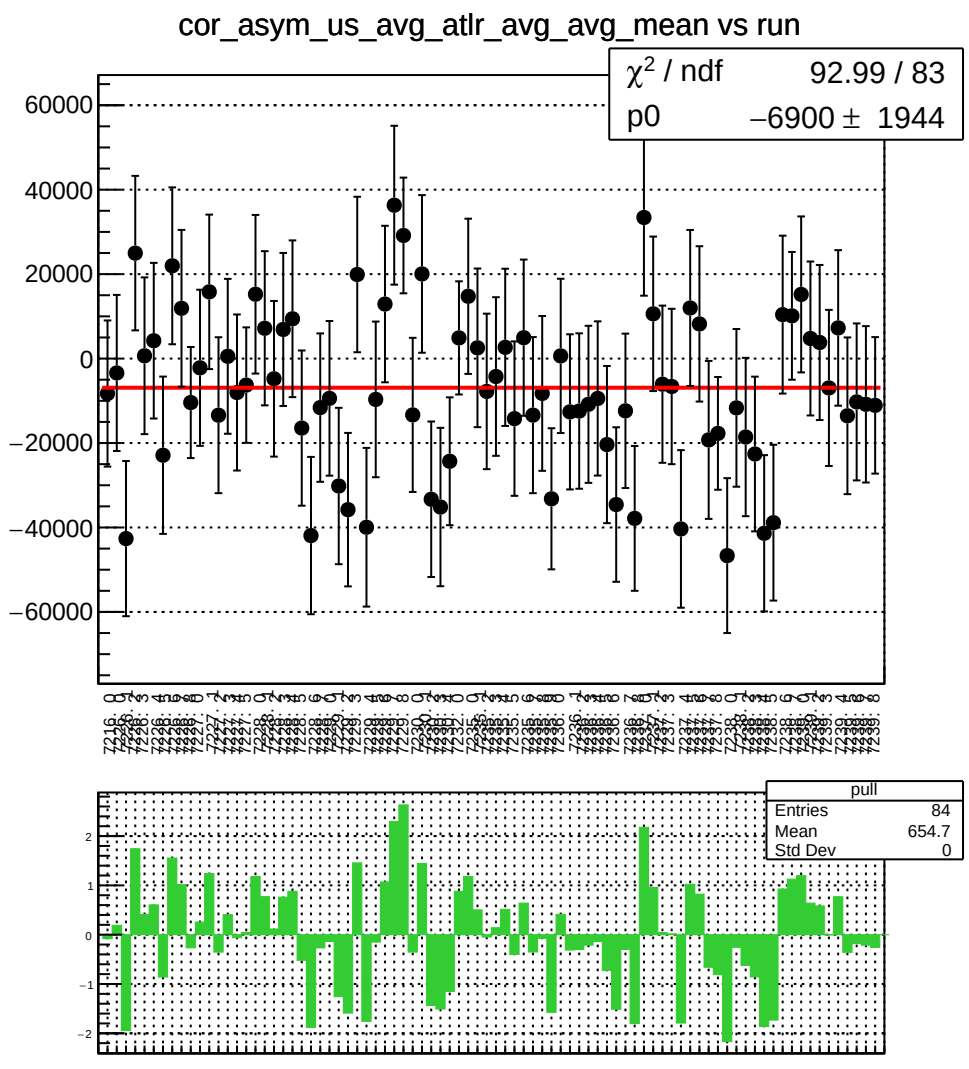

pull1D
Entries 84
Mean −0.005705
Std Dev 1.052

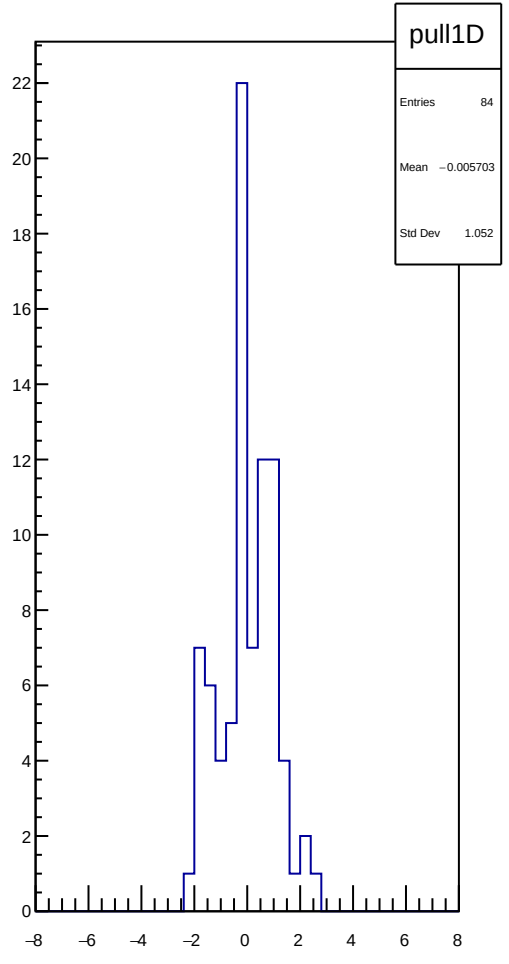

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 135 / 83
p0 1753 ± 1.374
1800
1780
1760
1740
1720
1700

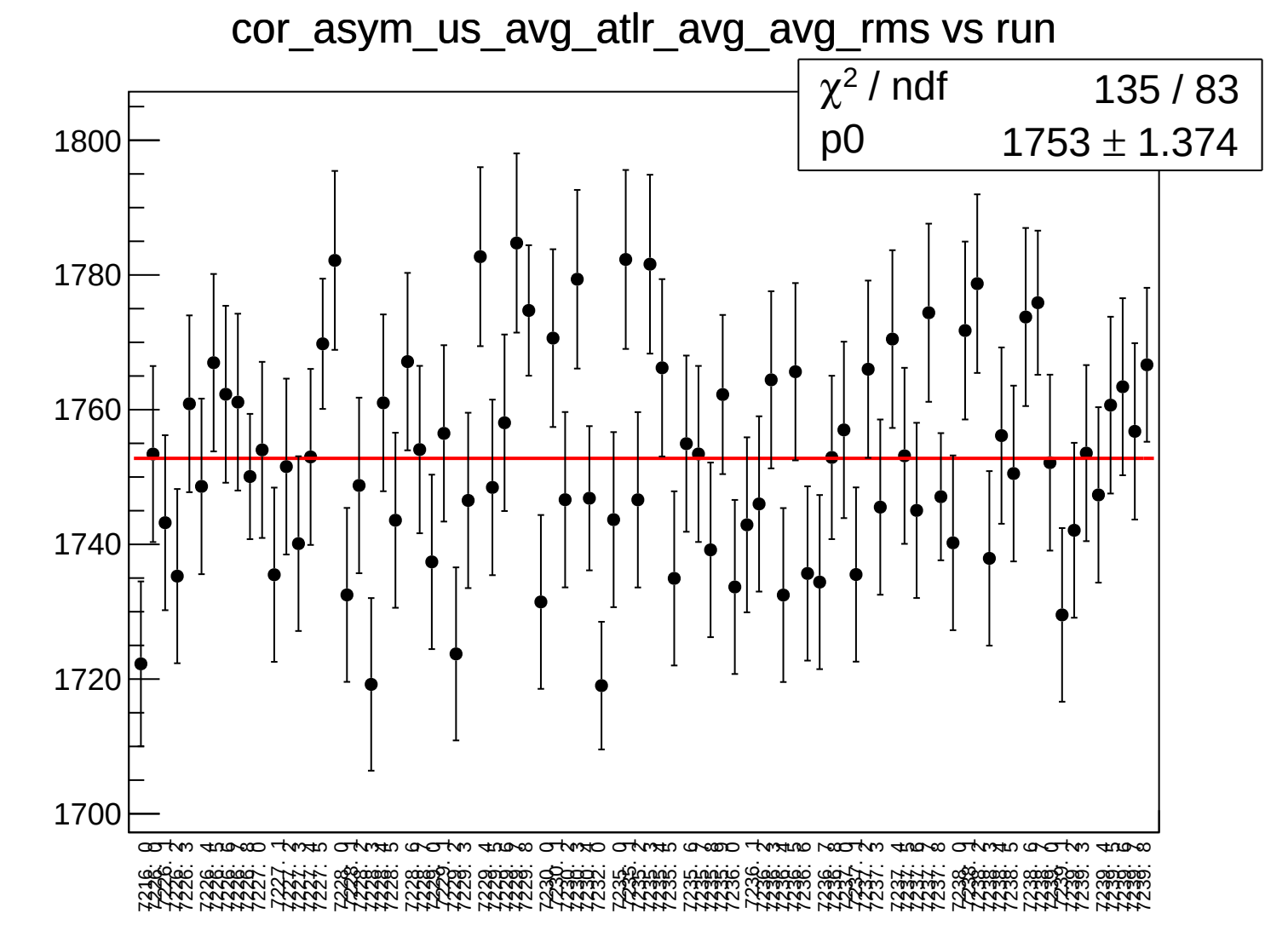

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 100.7 / 83
p0 5497 ± 6807
200
100
0
−100
−200
pull
Entries 84
Mean −171.6
Std Dev 0
2
1
0
−1
−2
−3

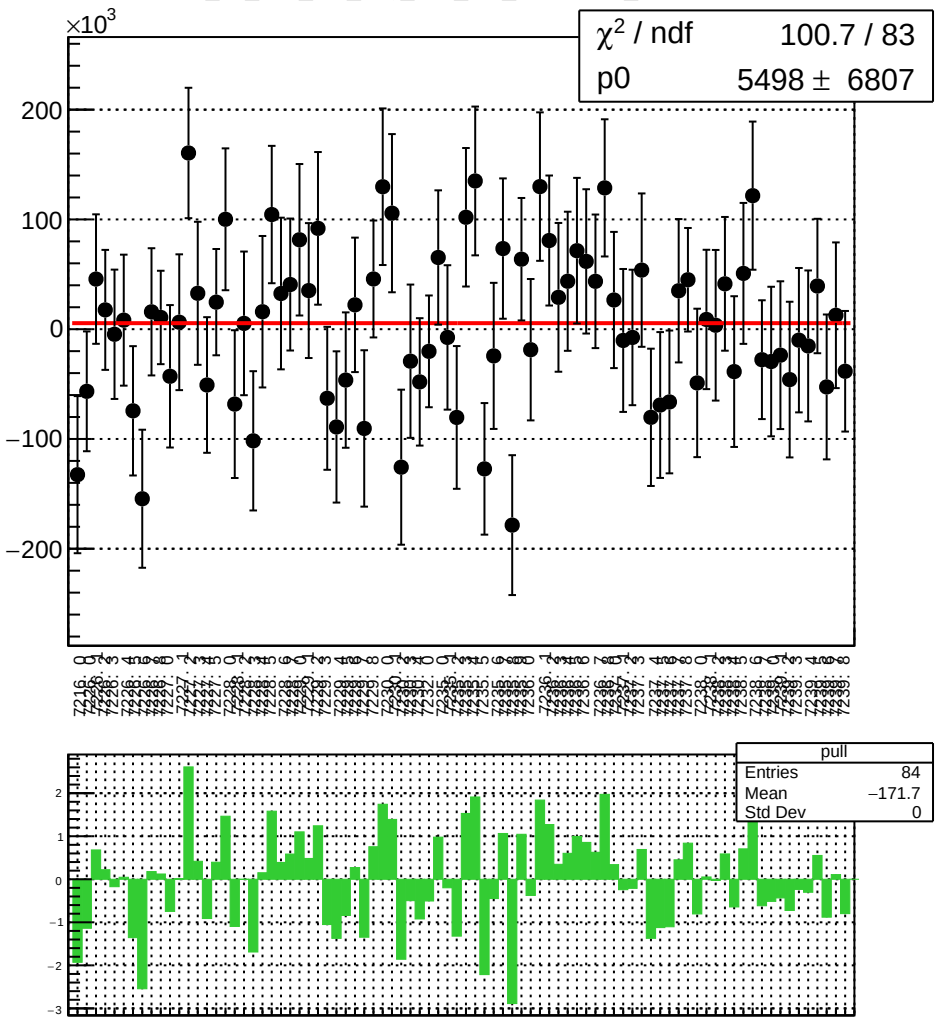

pull1D
Entries 84
Mean −0.006094
Std Dev 1.095
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

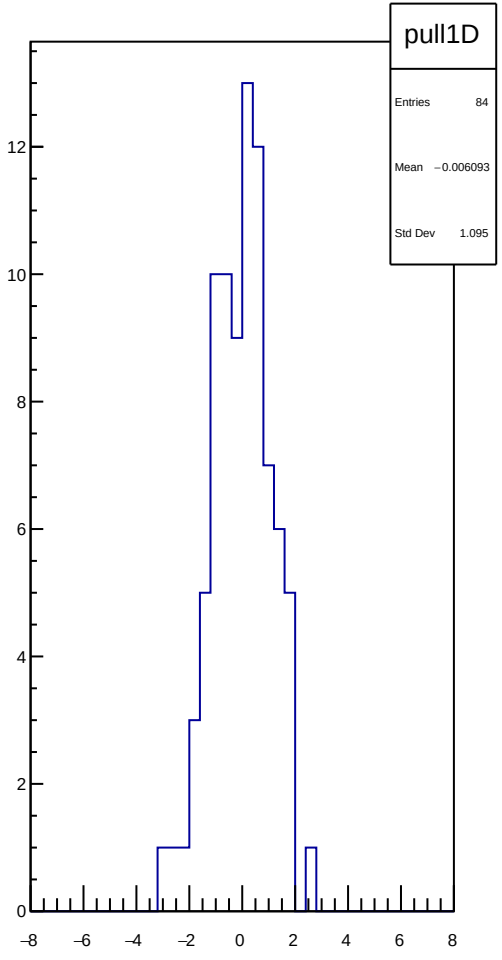

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ² / ndf 6524 / 83
p0 6127 ± 4.814
7000
6500
6000
5500
5000

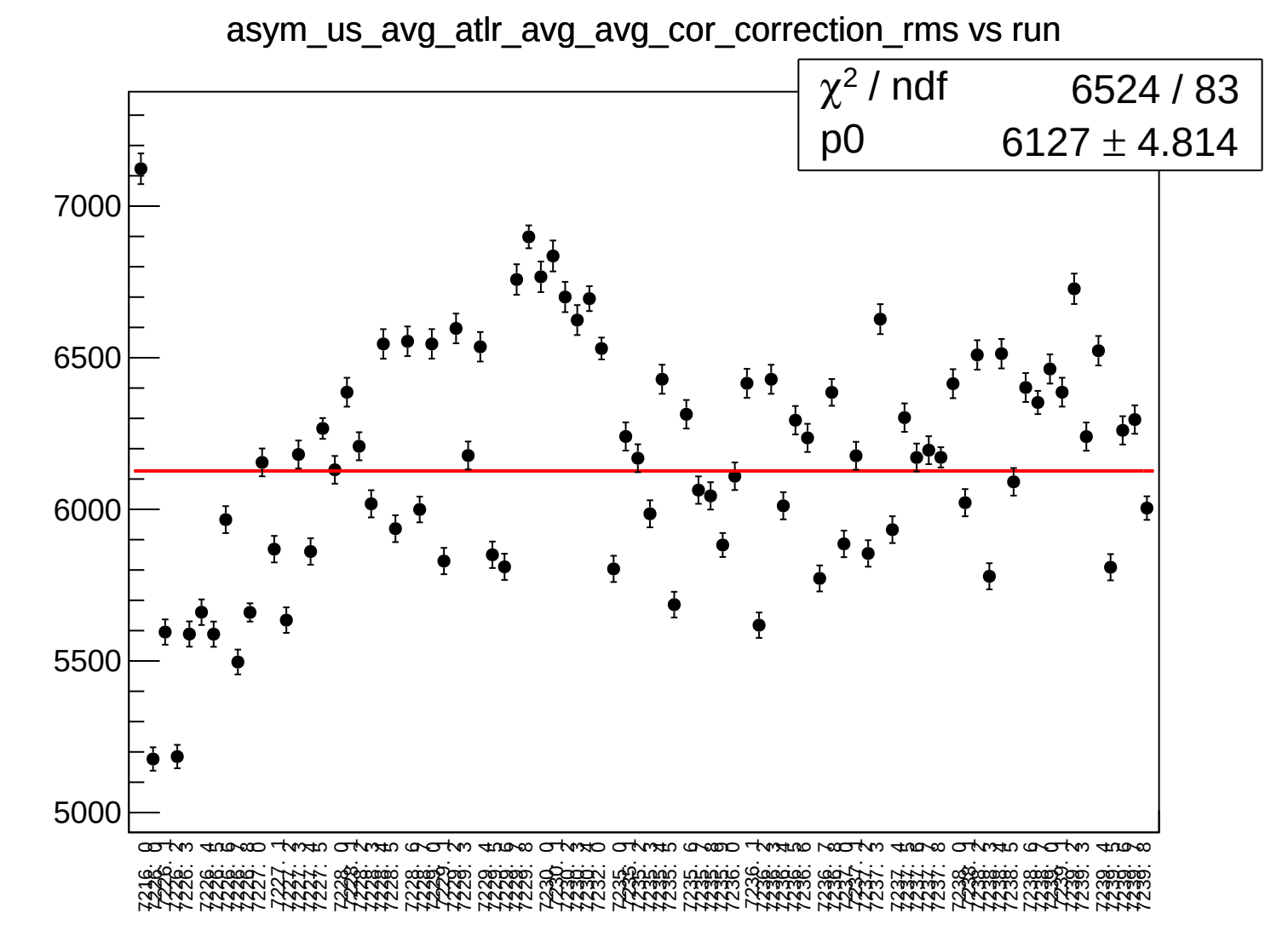

cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 92.99 / 83
p0 −6900 ± 1944
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 654.7
Std Dev 0
2
1
0
−1
−2

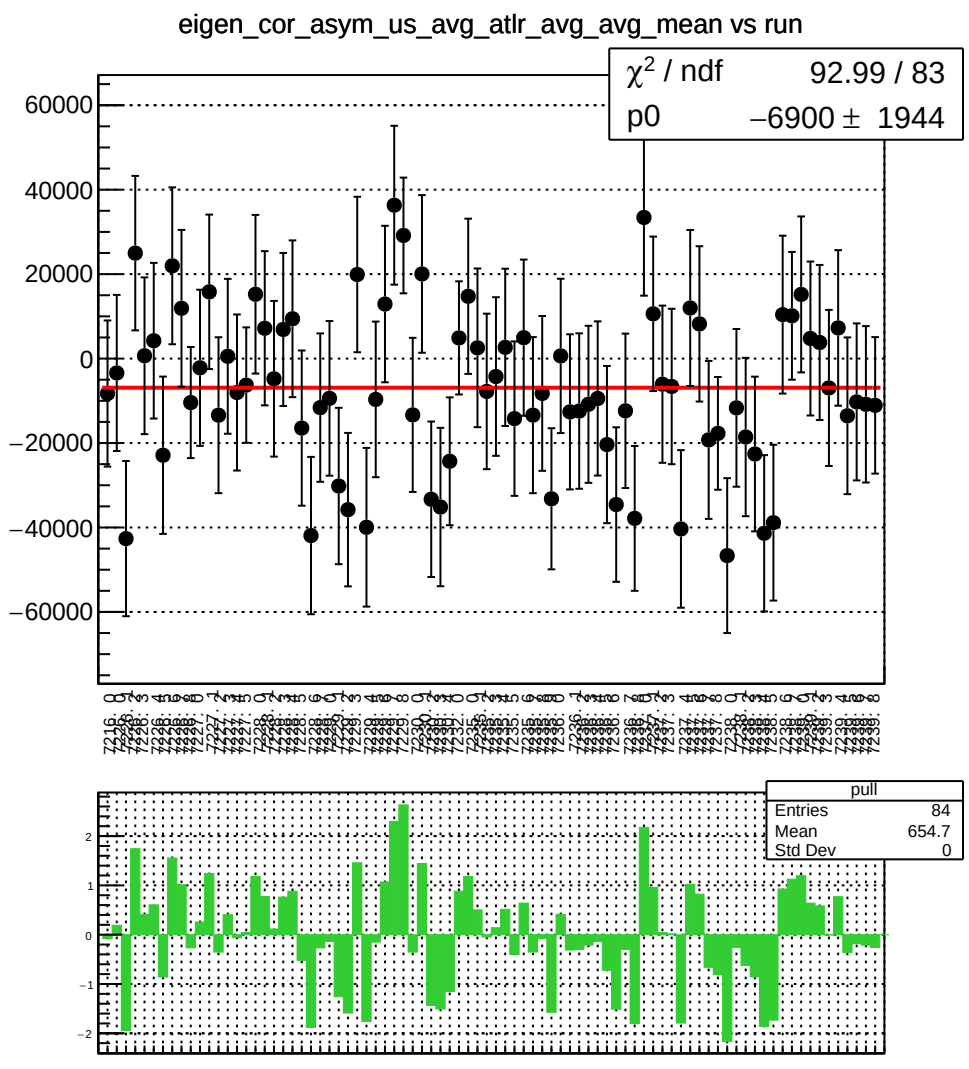

pull1D
Entries 84
Mean −0.005703
Std Dev 1.052
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

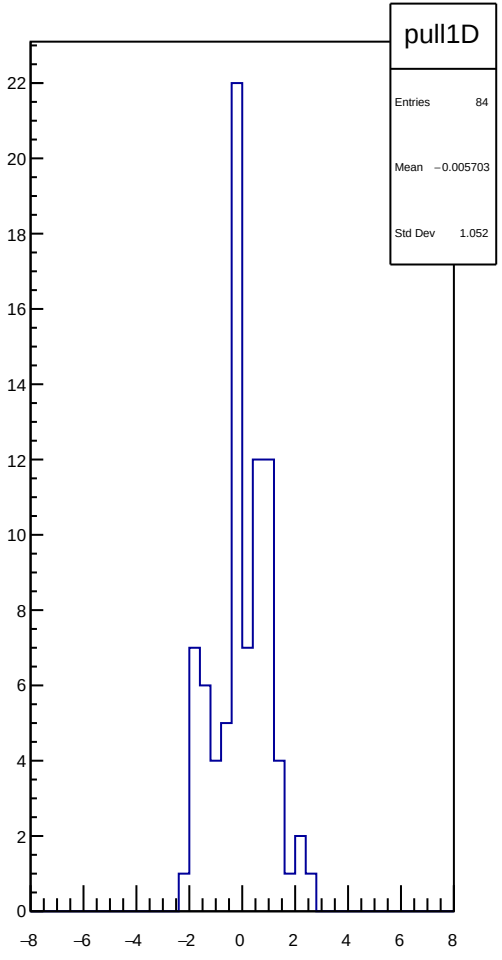

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 135 / 83
p0 1753 ± 1.374
1800
1780
1760
1740
1720
1700

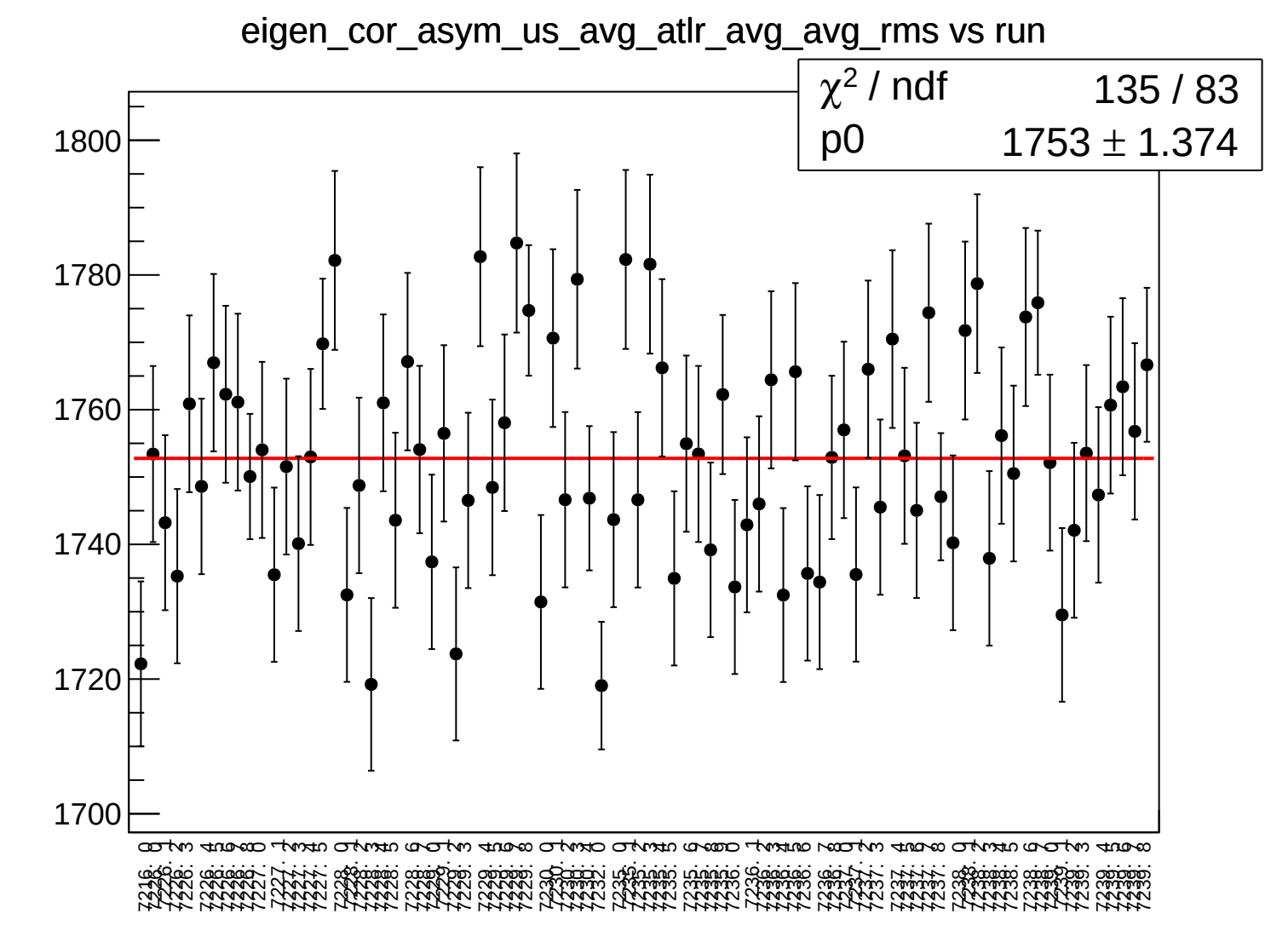

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 100.7 / 83
p0 5498 ± 6807
200
100
0
−100
−200
pull
Entries 84
Mean −171.7
Std Dev 0
2
1
0
−1
−2
−3

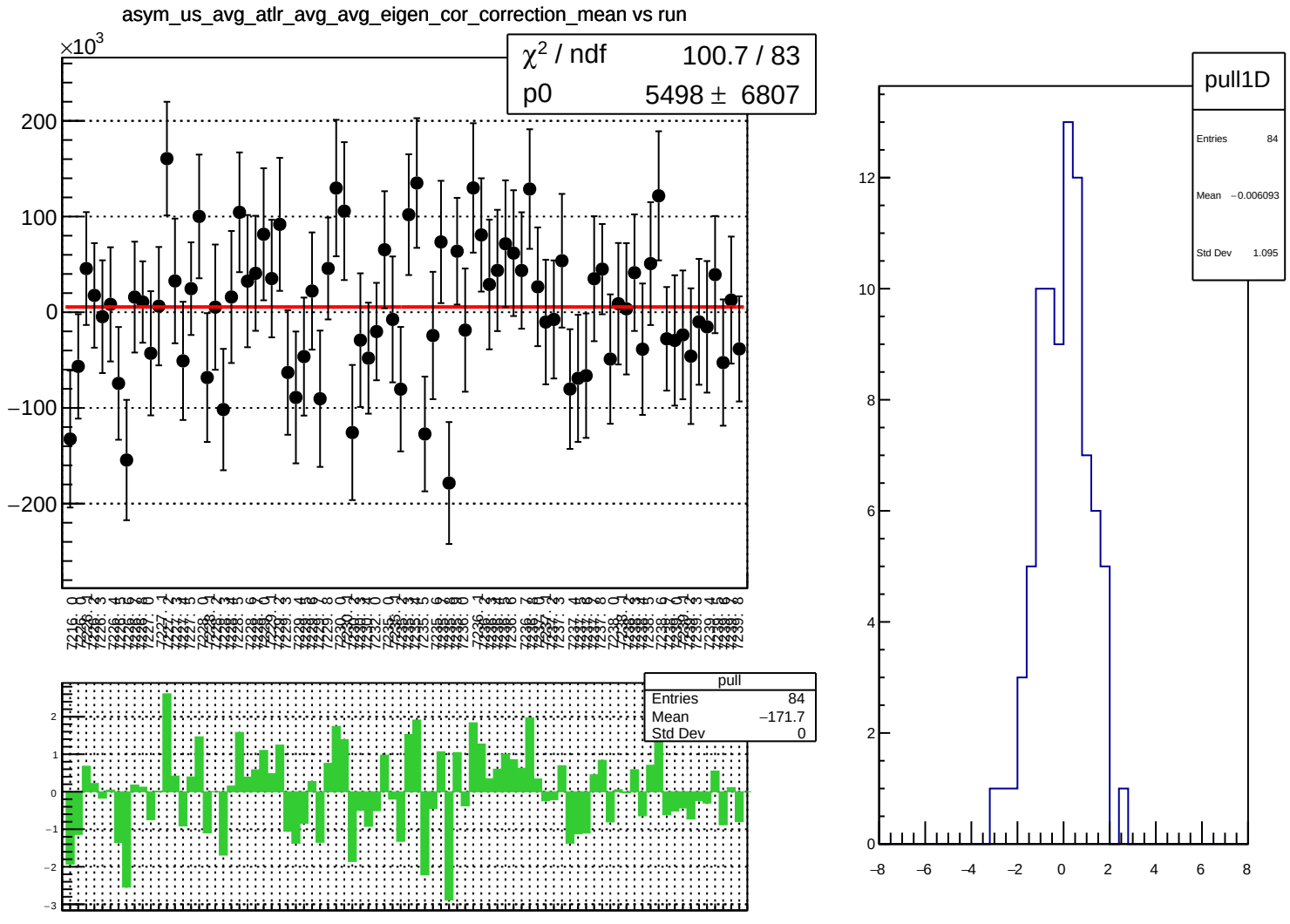

pull1D
Entries 84
Mean −0.006093
Std Dev 1.095
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

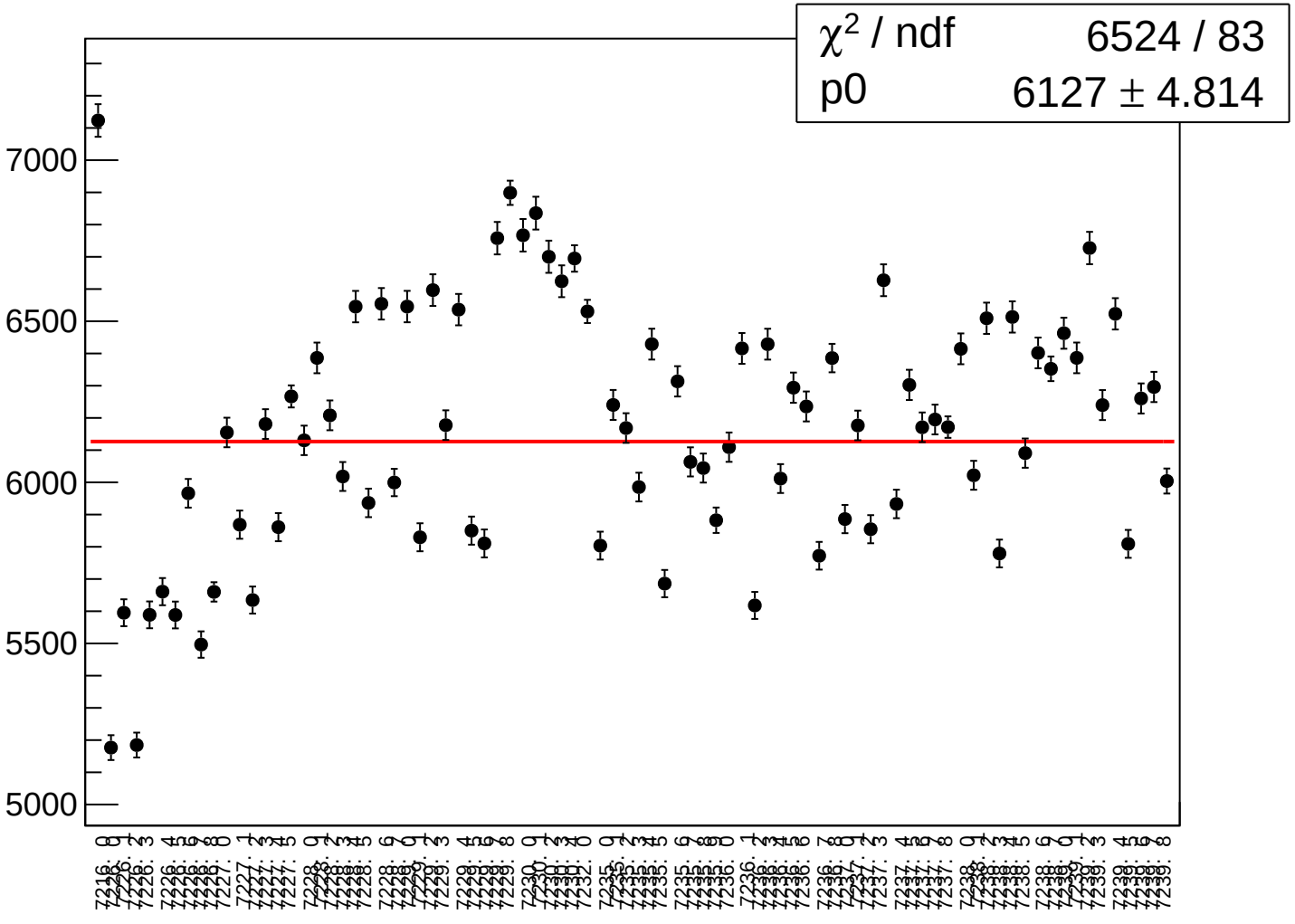

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ² / ndf 6524 / 83
p0 6127 ± 4.814
7000
6500
6000
5500
5000

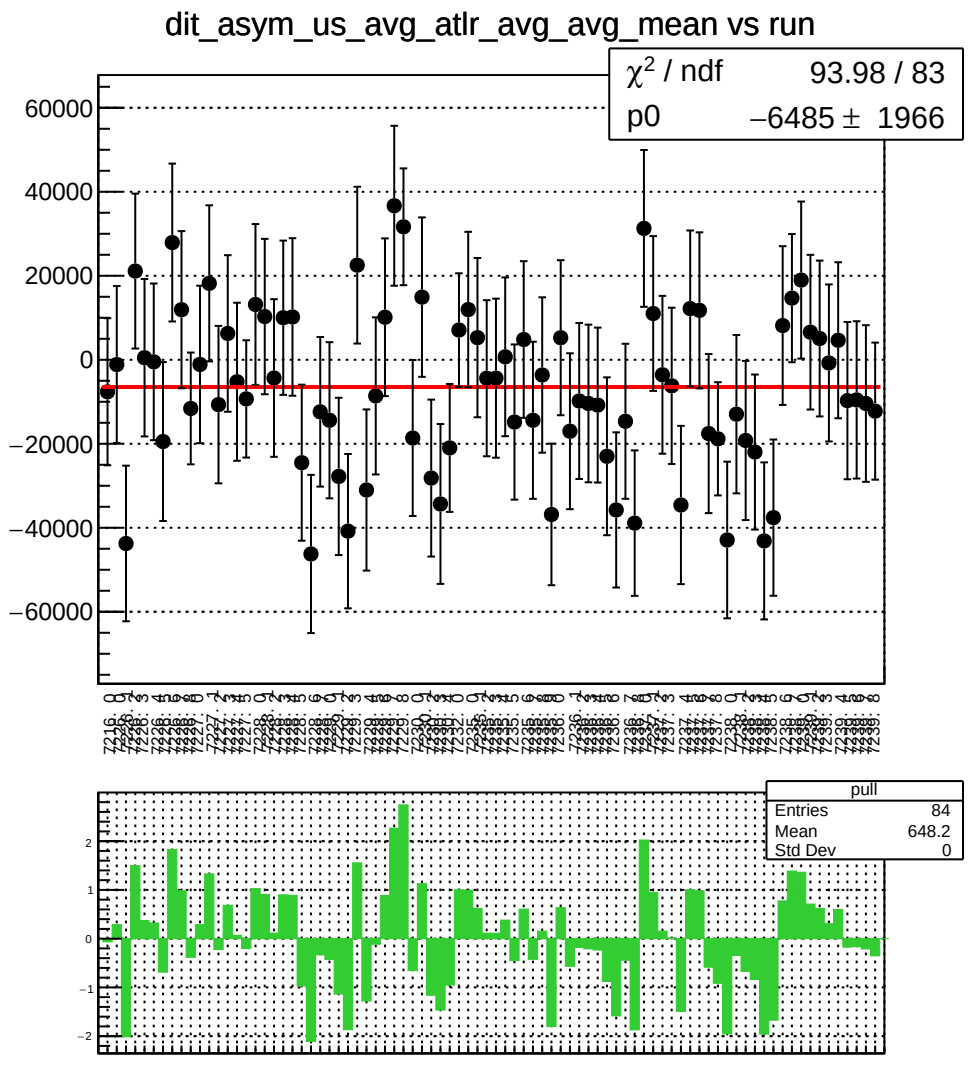

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 92.99 / 83
p0 −6900 ± 1944
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 654.7
Std Dev 0
2
1
0
−1
−2

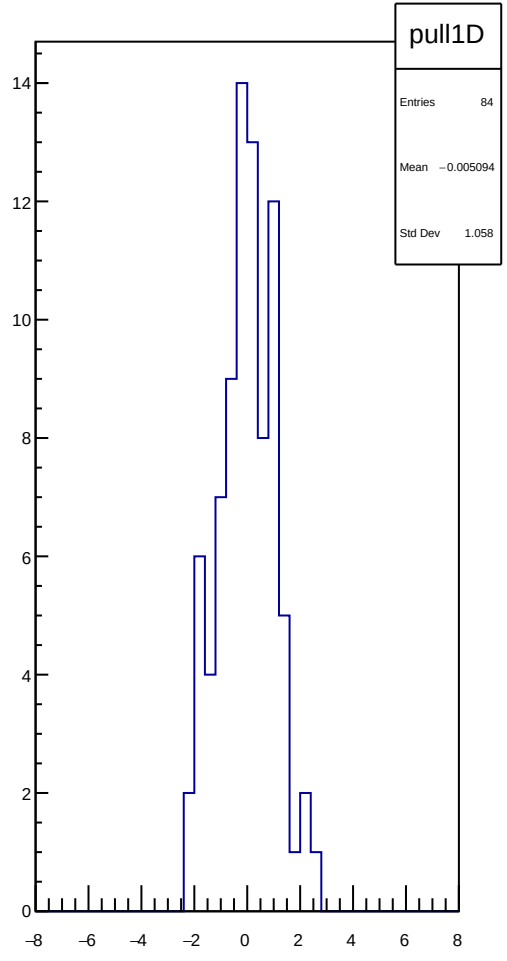

pull1D
Entries 84
Mean −0.005703
Std Dev 1.052
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

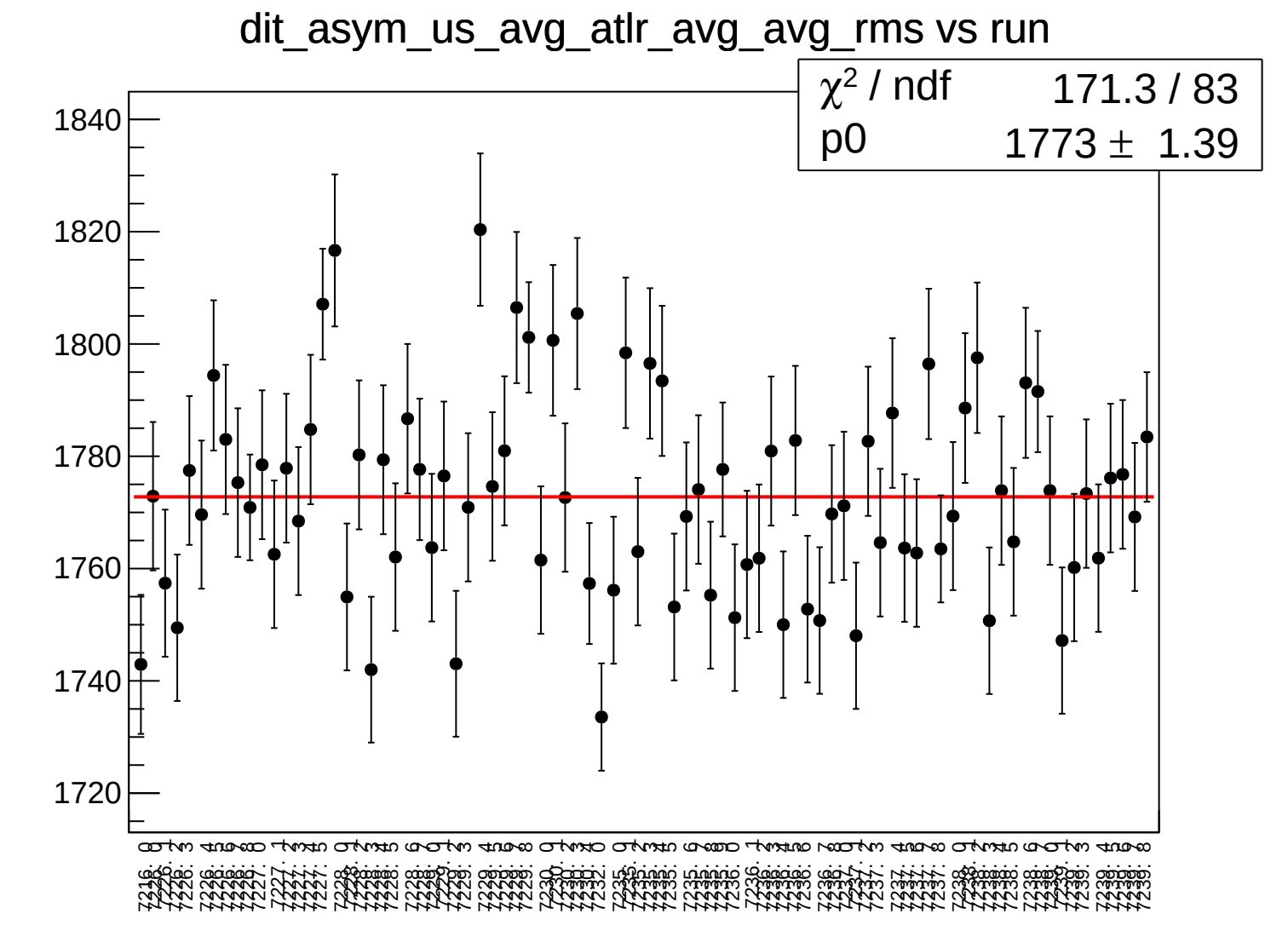

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 135 / 83
p0 1753 ± 1.374
1800
1780
1760
1740
1720
1700

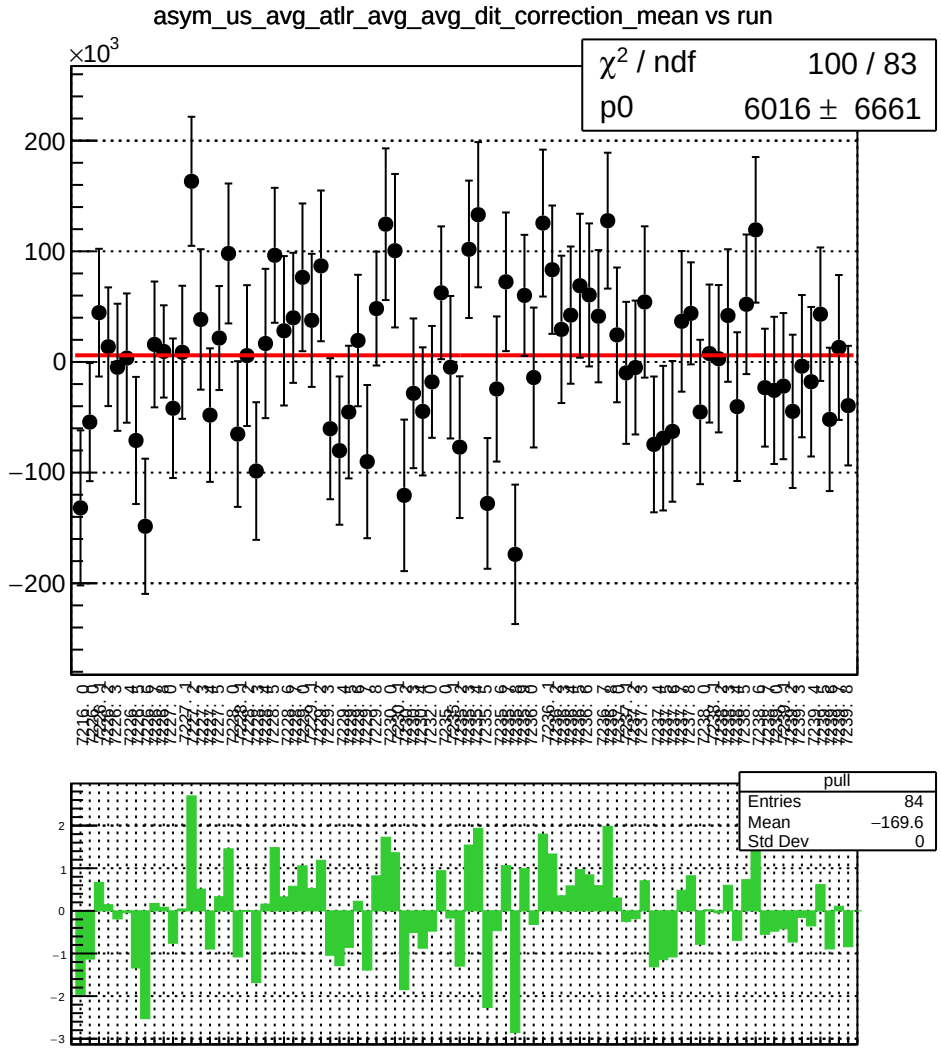

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 100.7 / 83
p0 5498 ± 6807
200
100
0
−100
−200
pull
Entries 84
Mean −171.7
Std Dev 0
pull1D
Entries 84
Mean −0.006093
Std Dev 1.095

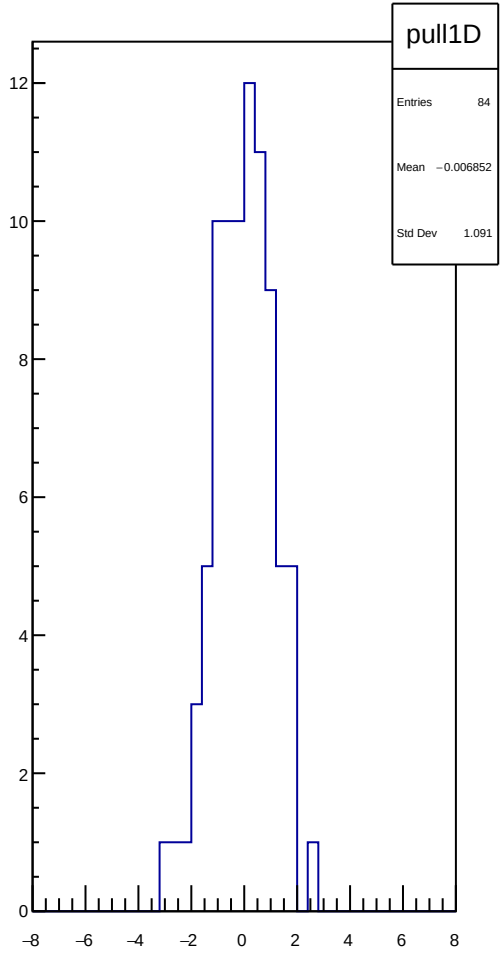

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 6524 / 83
p0 6127 ± 4.814
7000
6500
6000
5500
5000

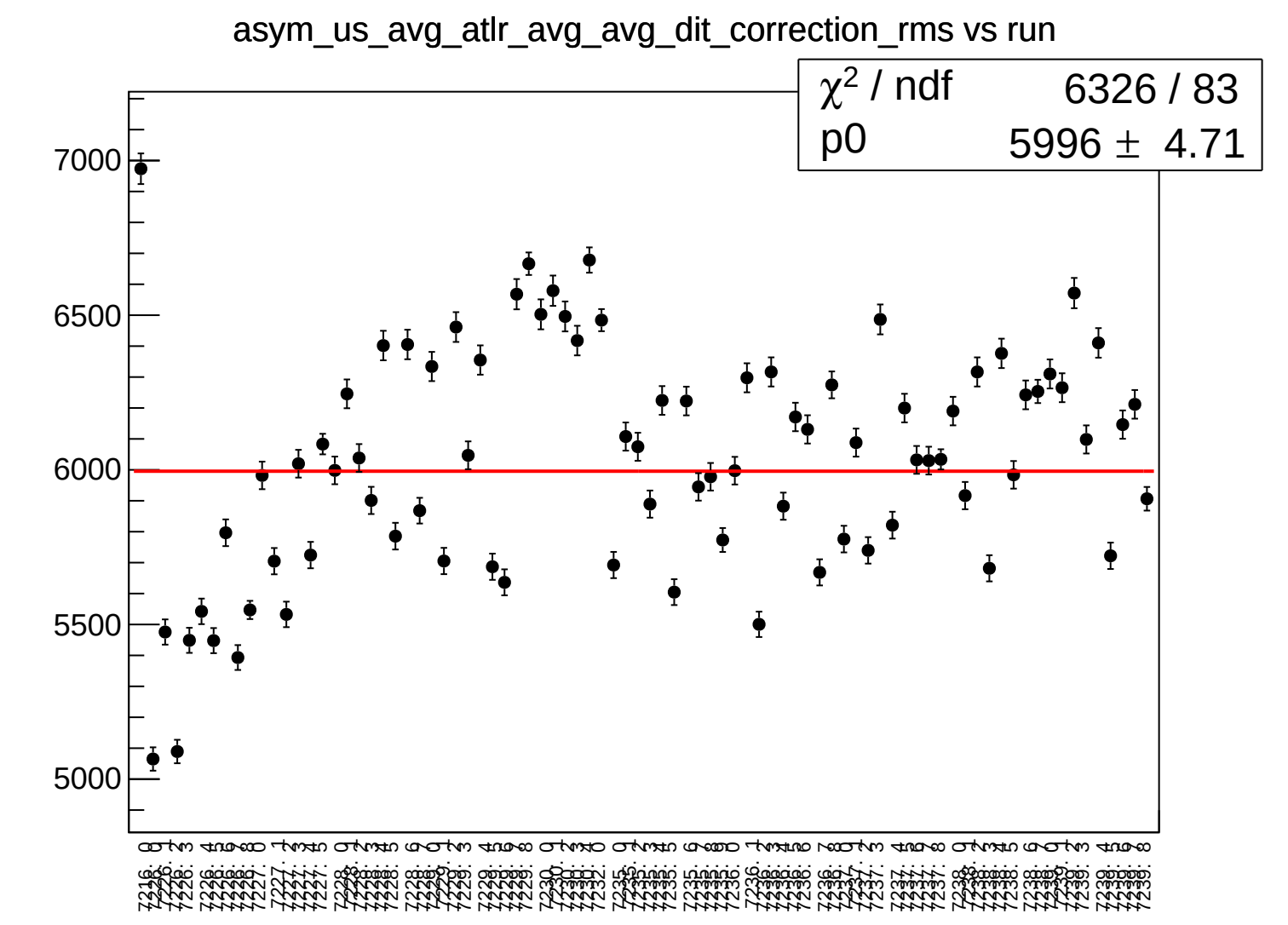

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 93.98 / 83
p0 −6485 ± 1966
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 648.2
Std Dev 0
2
1
0
−1
−2

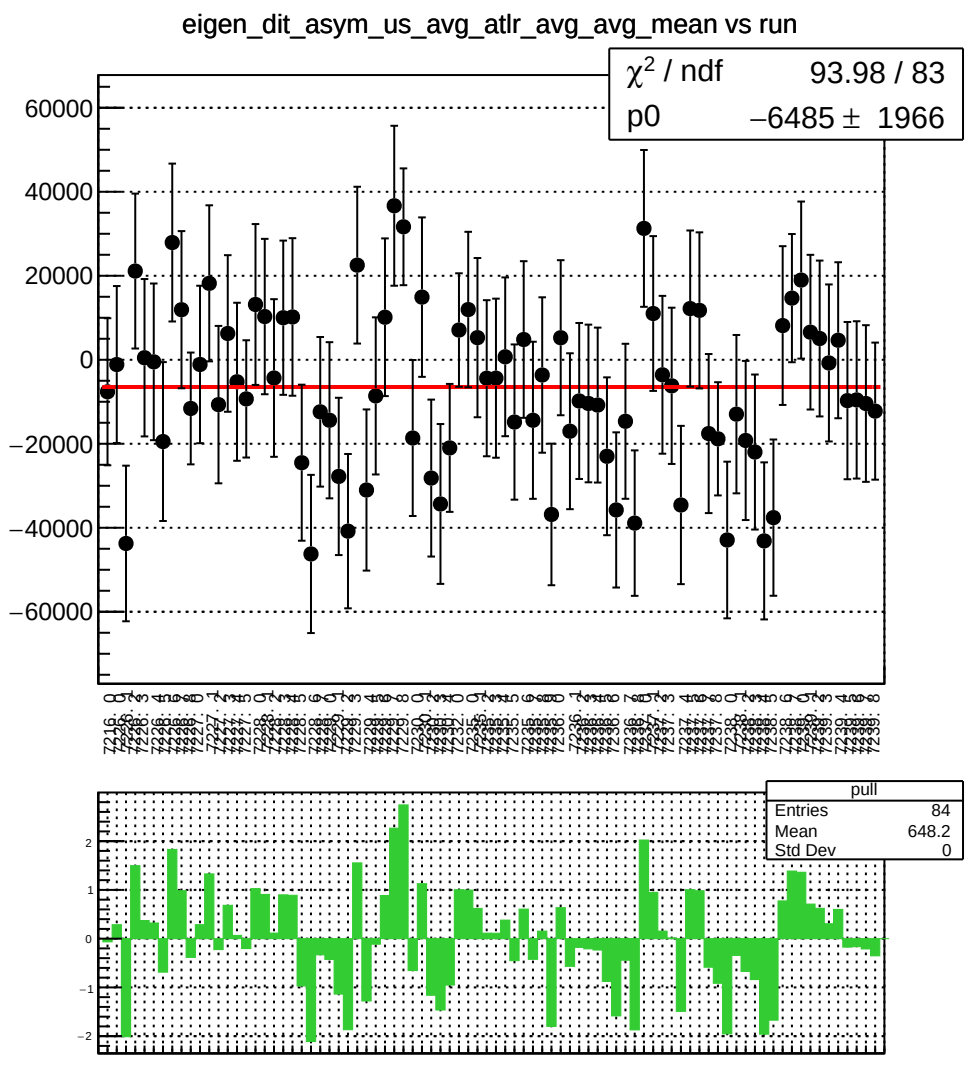

pull1D
Entries 84
Mean −0.005094
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

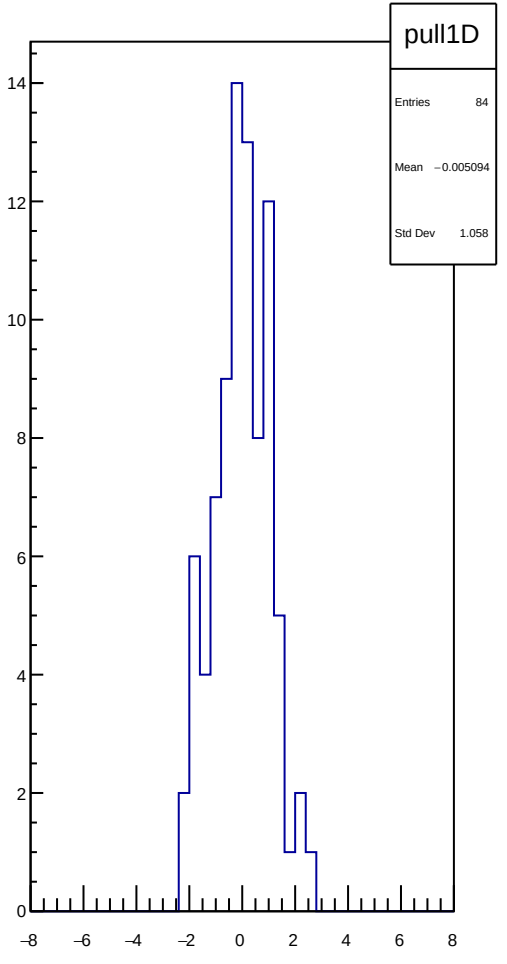

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 171.3 / 83
p0 1773 ± 1.39
1840
1820
1800
1780
1760
1740
1720

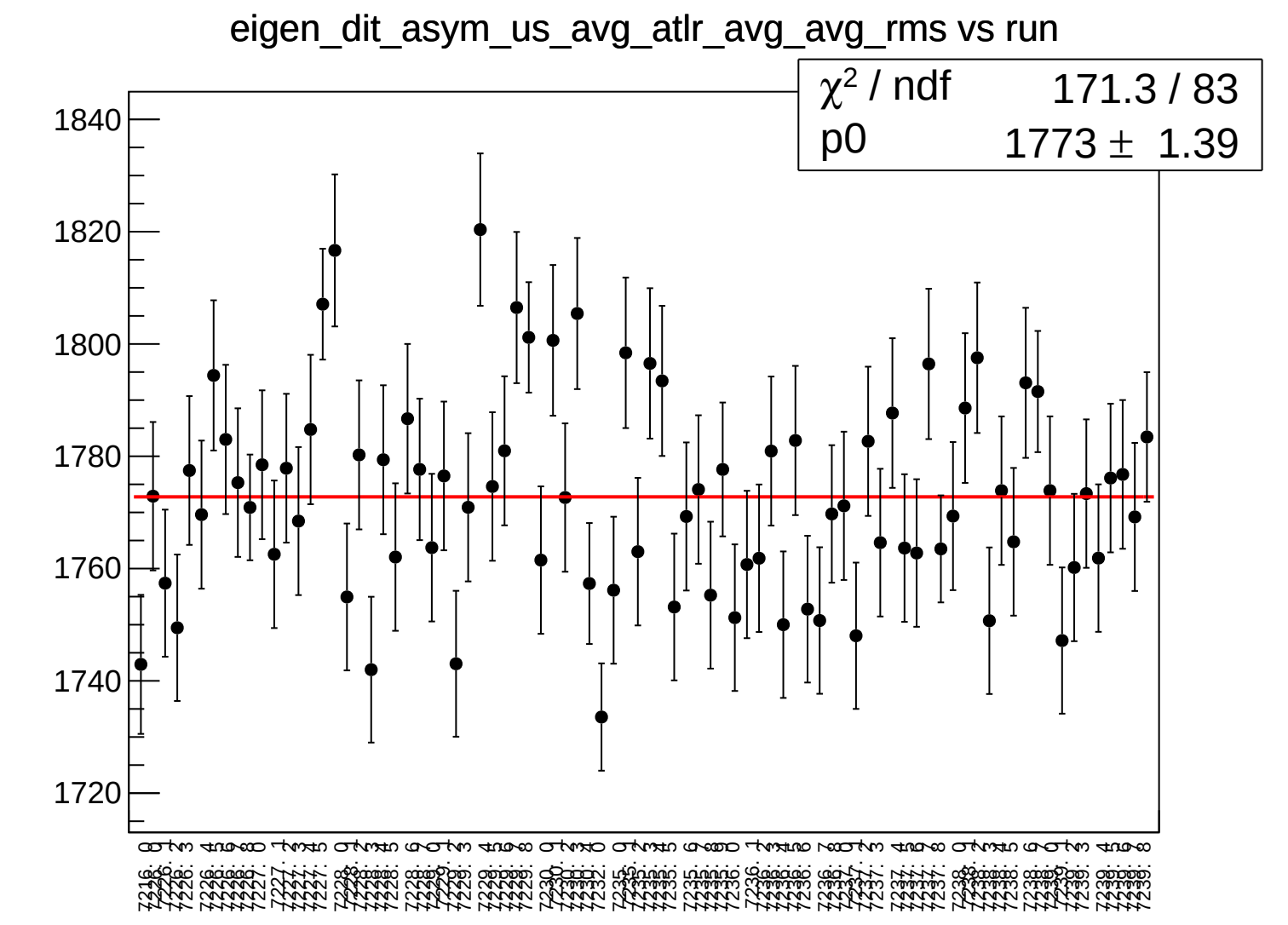

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 100 / 83
p0 6016 ± 6661
200
100
0
−100
−200
pull
Entries 84
Mean −169.6
Std Dev 0
2
1
0
−1
−2
−3

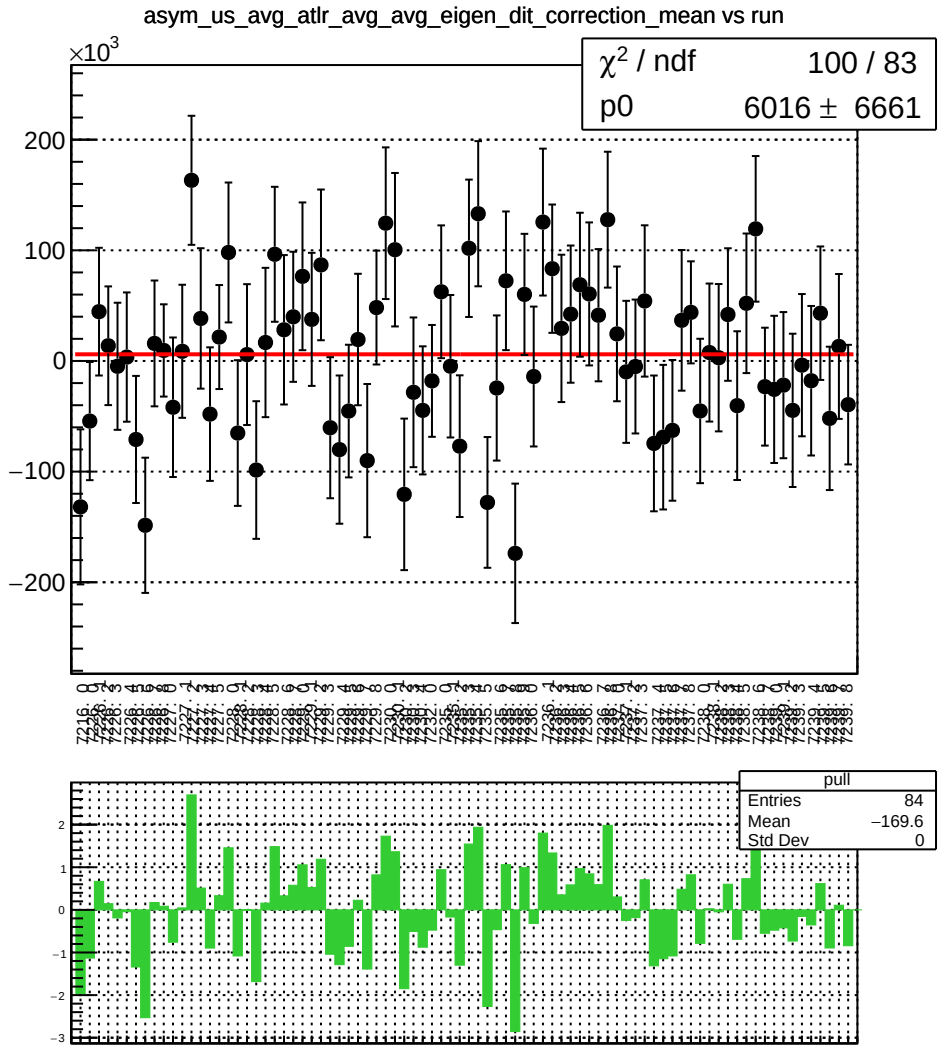

pull1D
Entries 84
Mean −0.006852
Std Dev 1.091
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

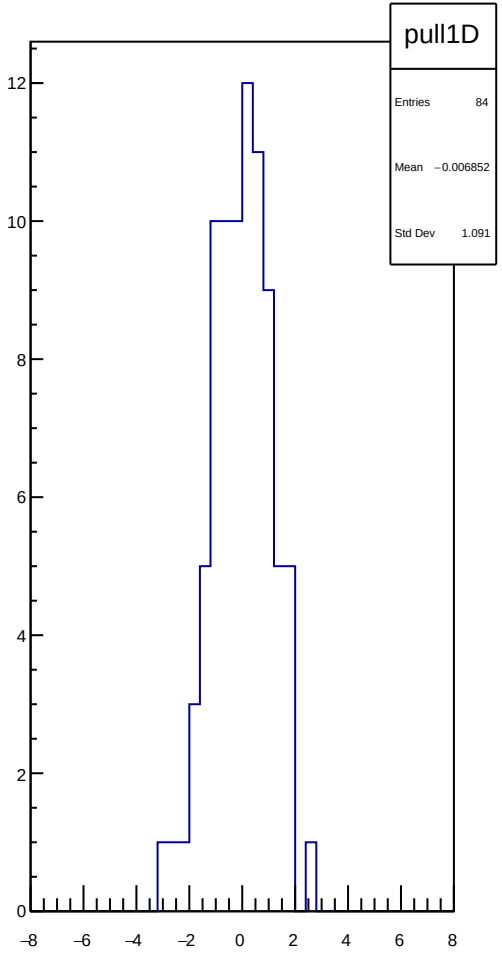

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ² / ndf 6326 / 83
p0 5996 ± 4.71
7000
6500
6000
5500
5000

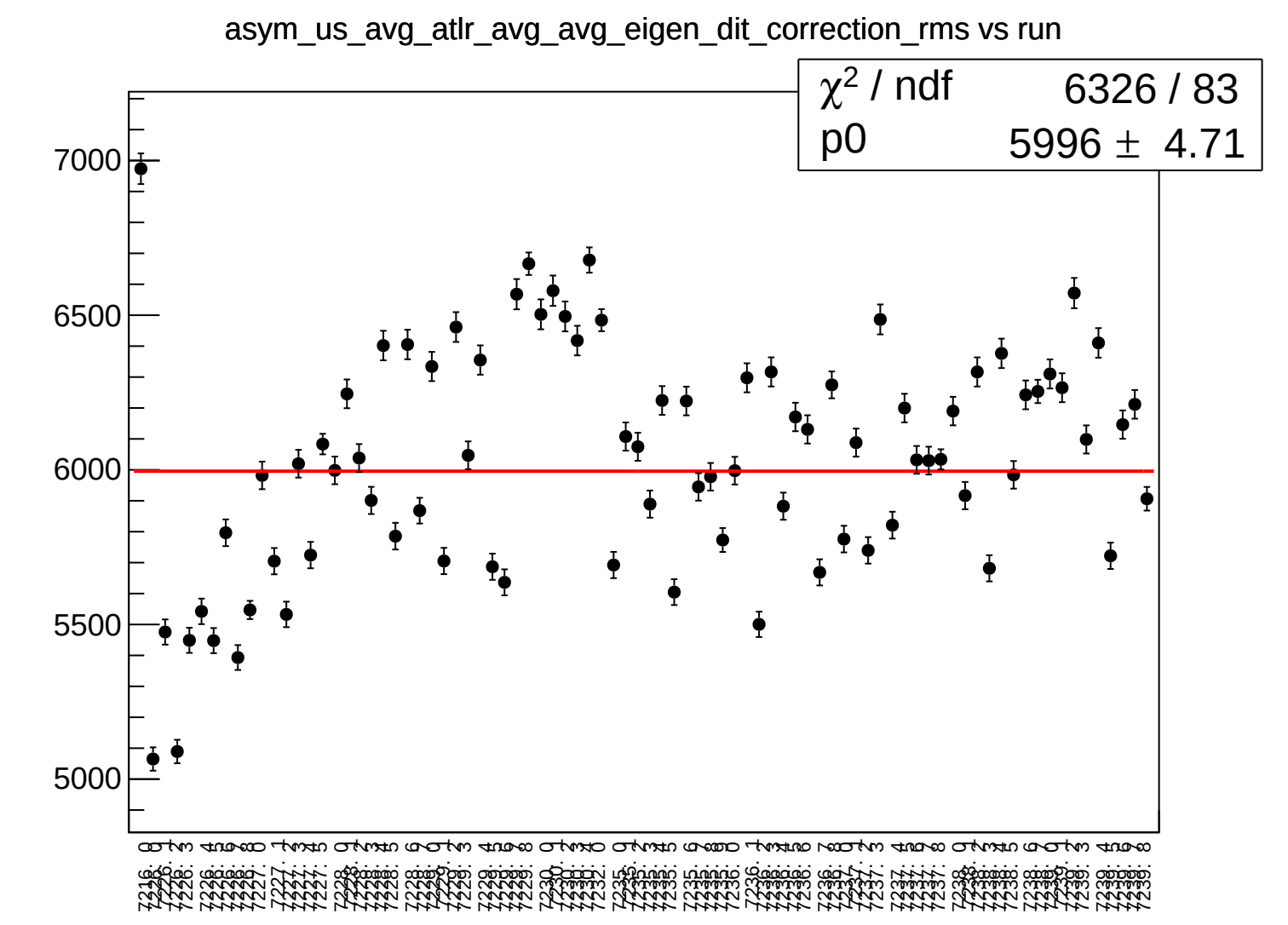

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 93.98 / 83
p0 −6485 ± 1966
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 648.2
Std Dev 0
2
1
0
−1
−2

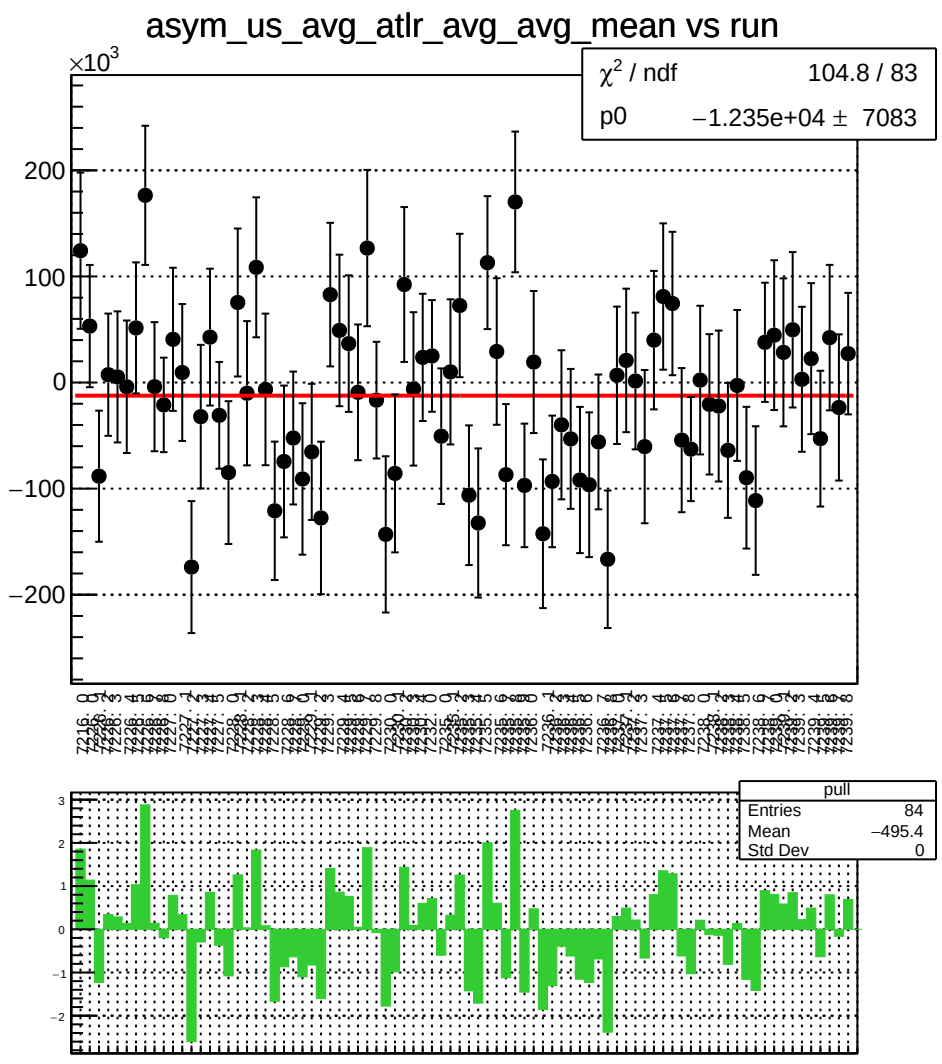

pull1D
Entries 84
Mean −0.005094
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

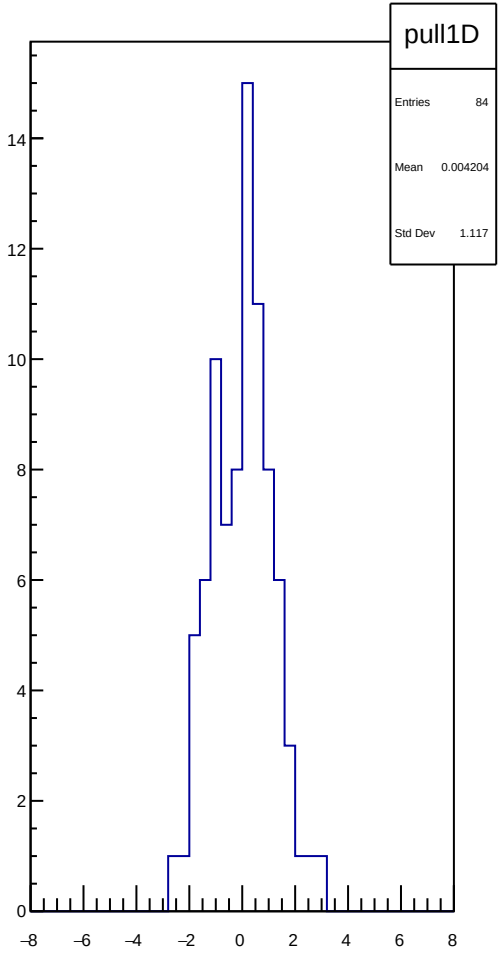

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 171.3 / 83
p0 1773 ± 1.39
1840
1820
1800
1780
1760
1740
1720

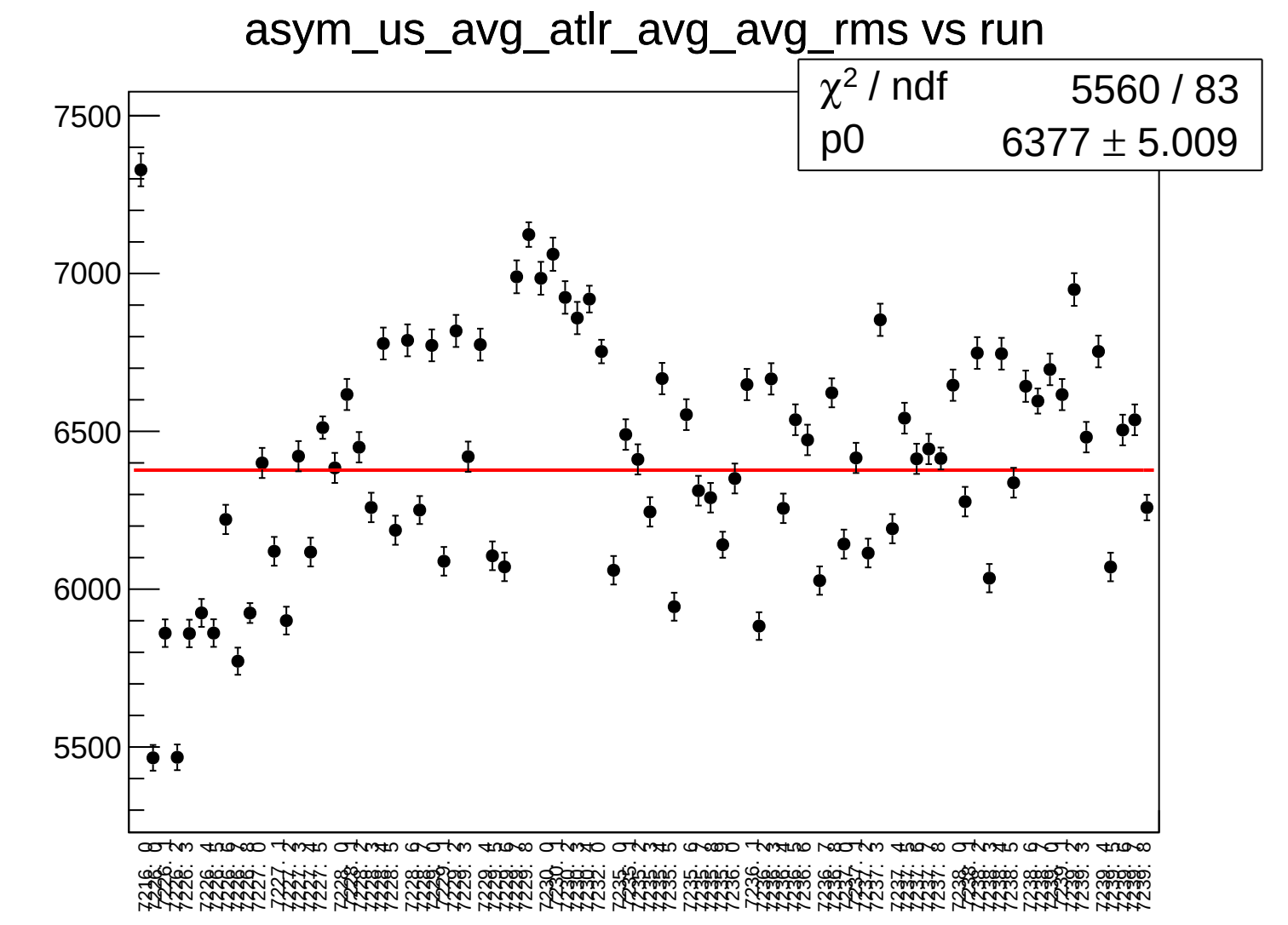

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 100 / 83
p0 6016 ± 6661
200
100
0
−100
−200
pull
Entries 84
Mean −169.6
Std Dev 0
2
1
0
−1
−2
−3

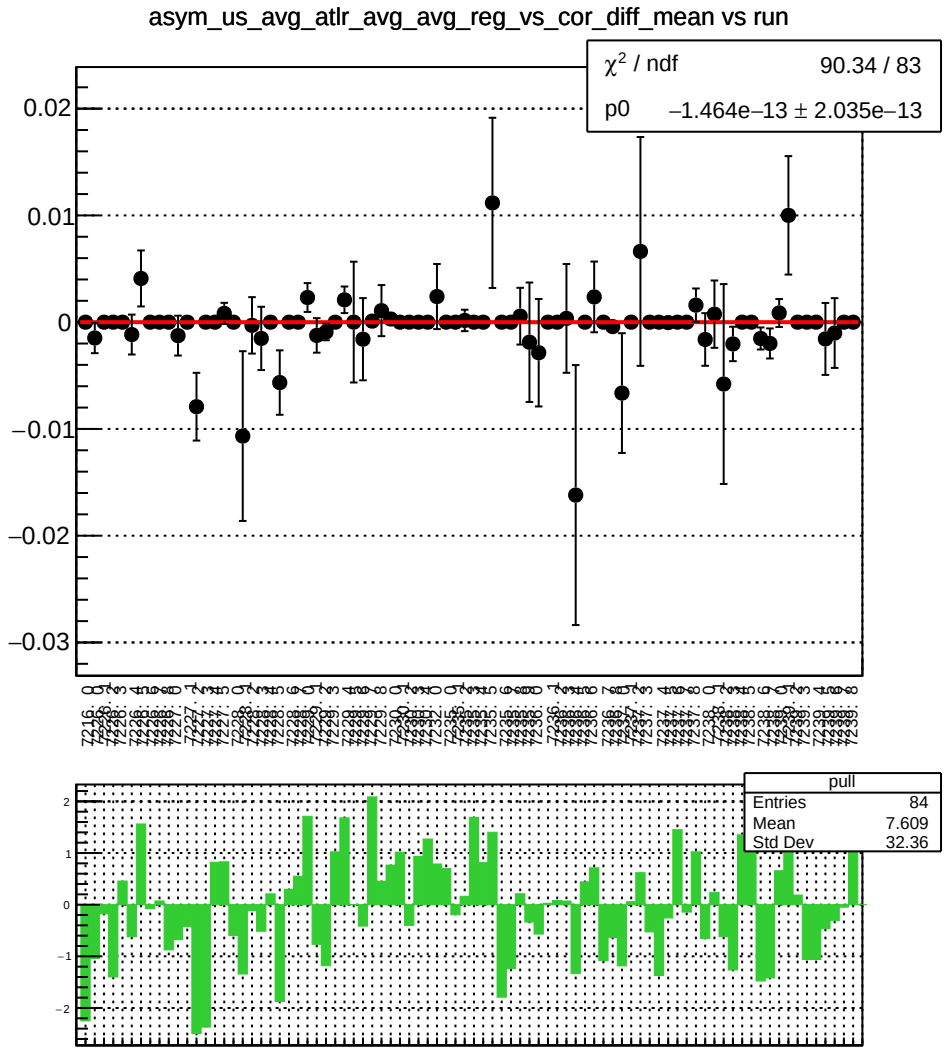

pull1D
Entries 84
Mean −0.006852
Std Dev 1.091
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

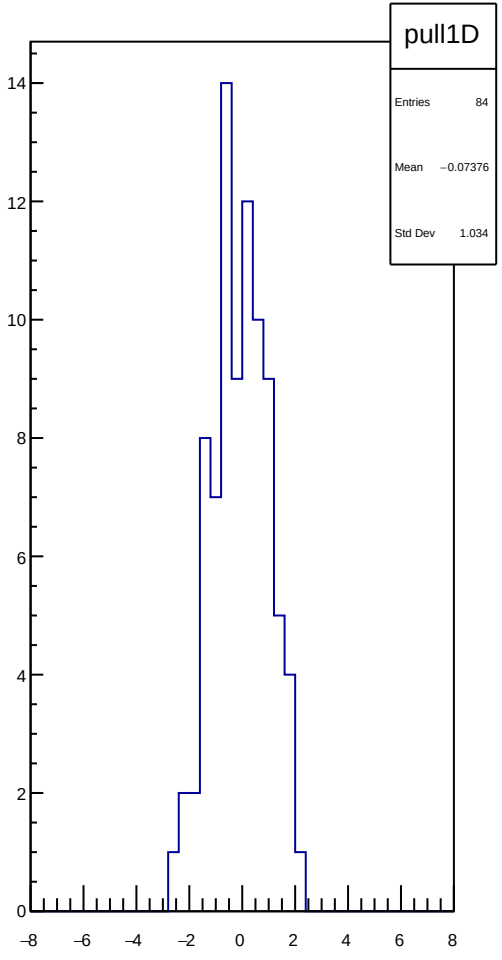

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 6326 / 83
p0 5996 ± 4.71
7000
6500
6000
5500
5000

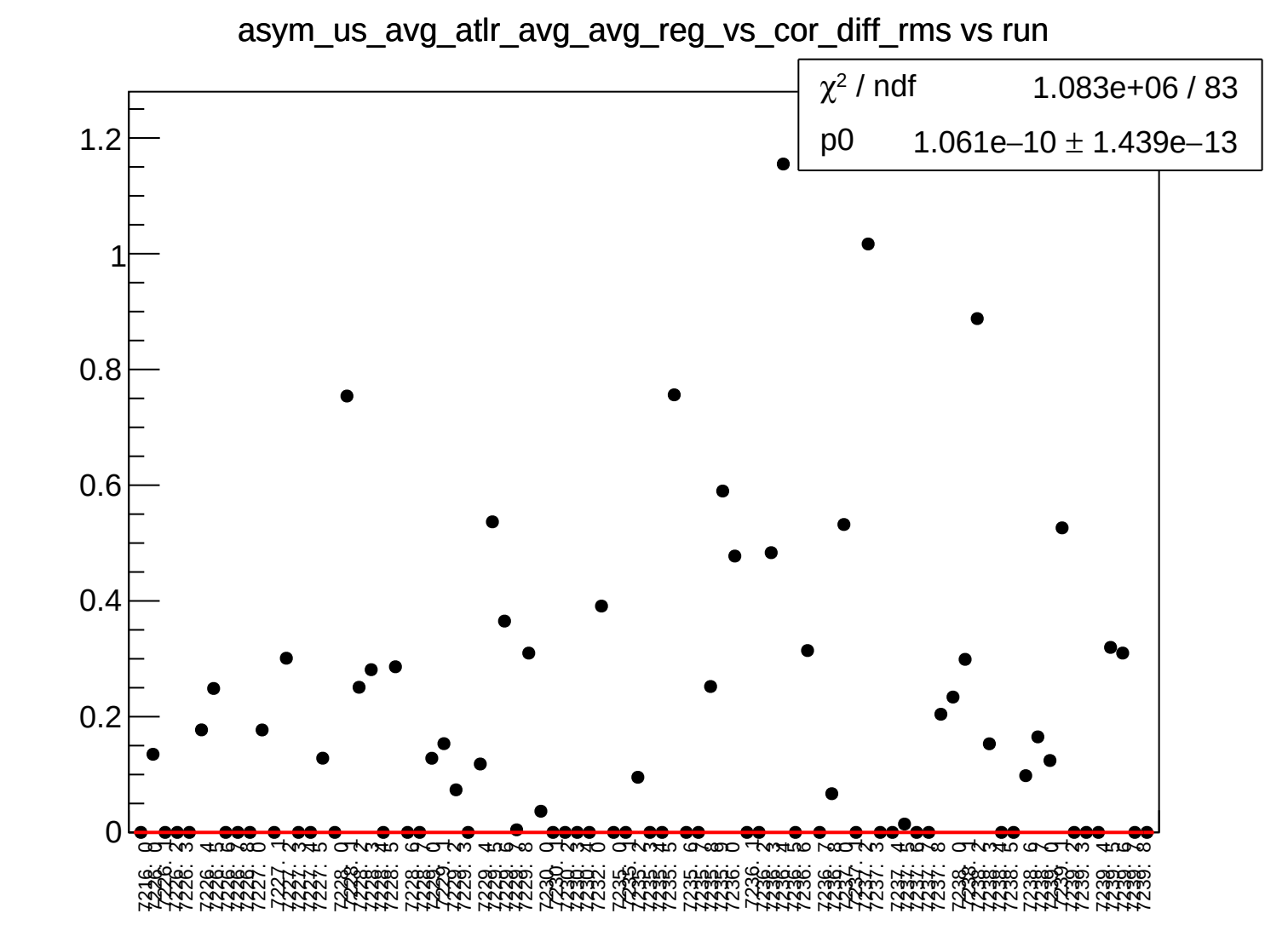

asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ² / ndf 104.8 / 83
p0 −1.235e+04 ± 7083
200
100
0
−100
−200
pull
Entries 84
Mean −495.4
Std Dev 0
3
2
1
0
−1
−2

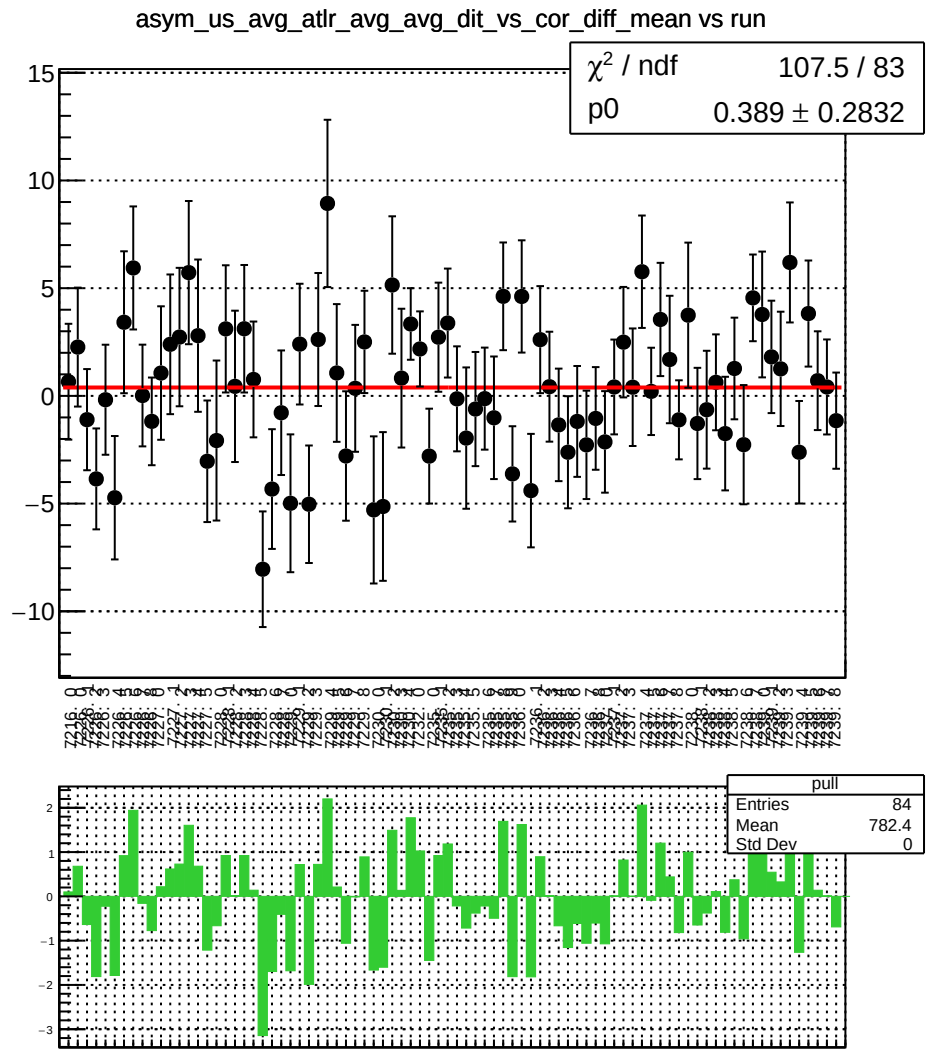

pull1D
Entries 84
Mean 0.004204
Std Dev 1.117
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

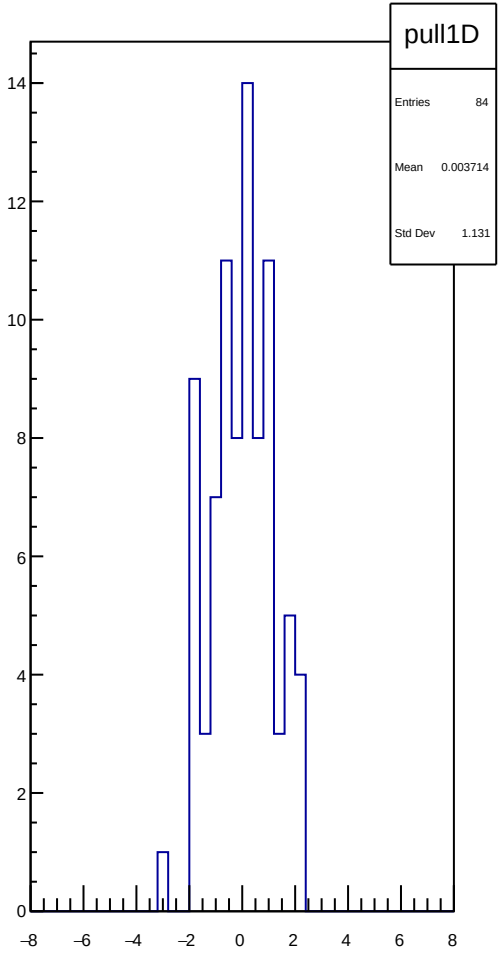

asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 5560 / 83
p0 6377 ± 5.009
7500
7000
6500
6000
5500

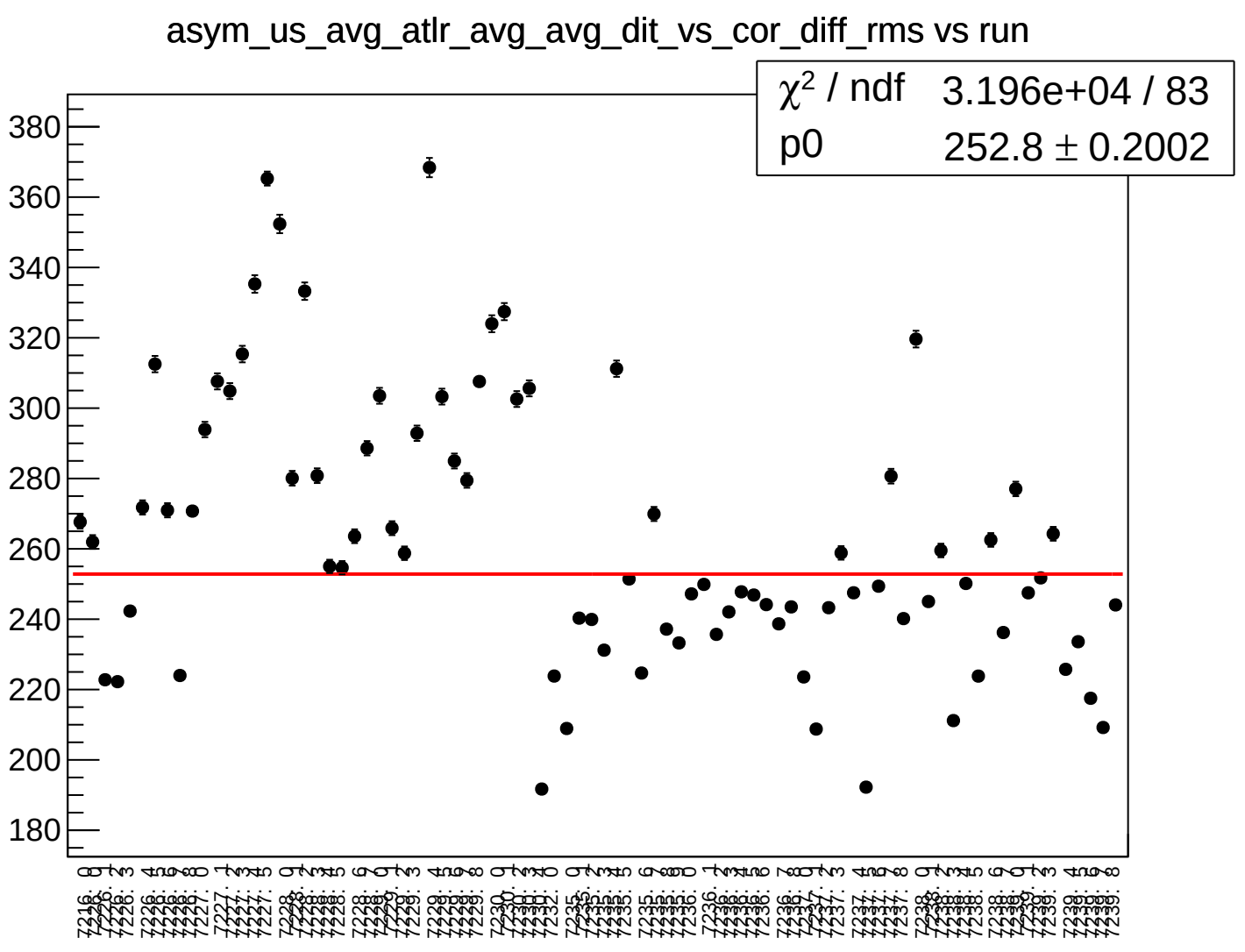

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 90.34 / 83
p0 −1.464e−13 ± 2.035e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 84
Mean 7.609
Std Dev 32.36
2
1
0
−1
−2

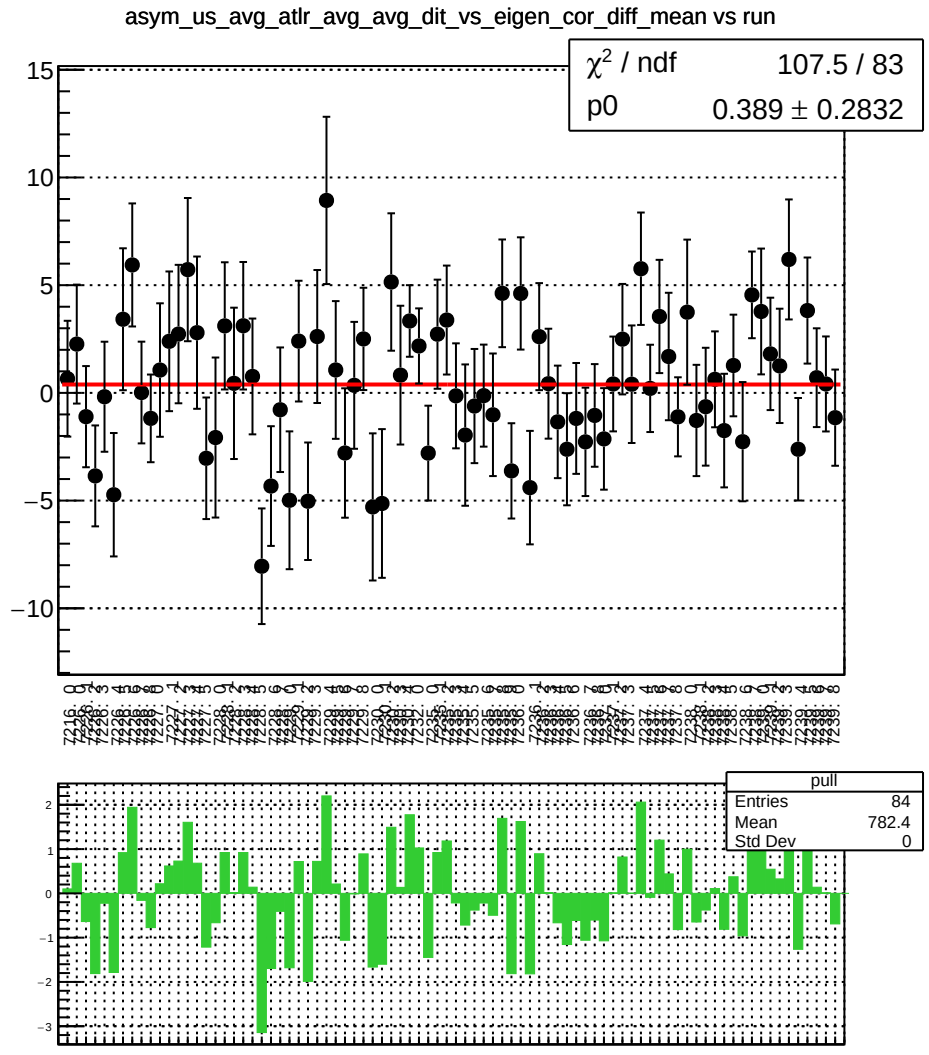

pull1D
Entries 84
Mean −0.07376
Std Dev 1.034
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

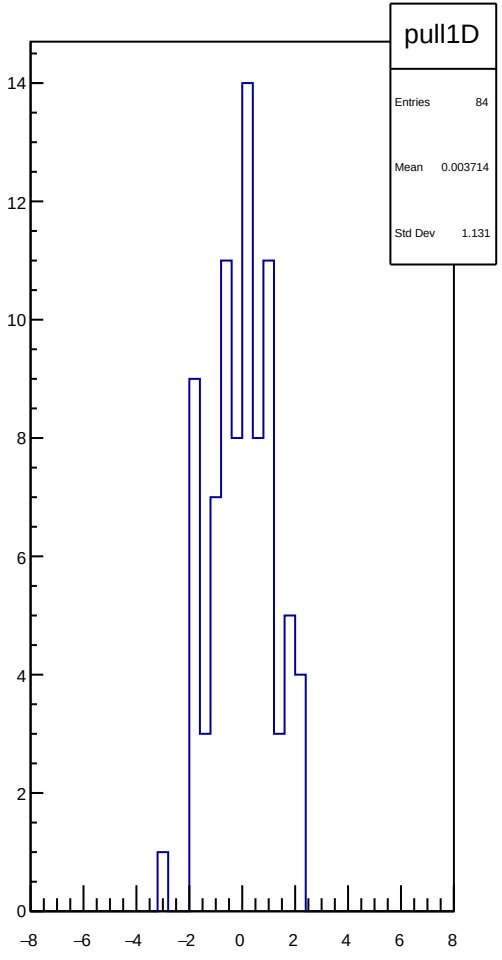

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.083e+06 / 83
p0 1.061e−10 ± 1.439e−13
1.2
1
0.8
0.6
0.4
0.2
0

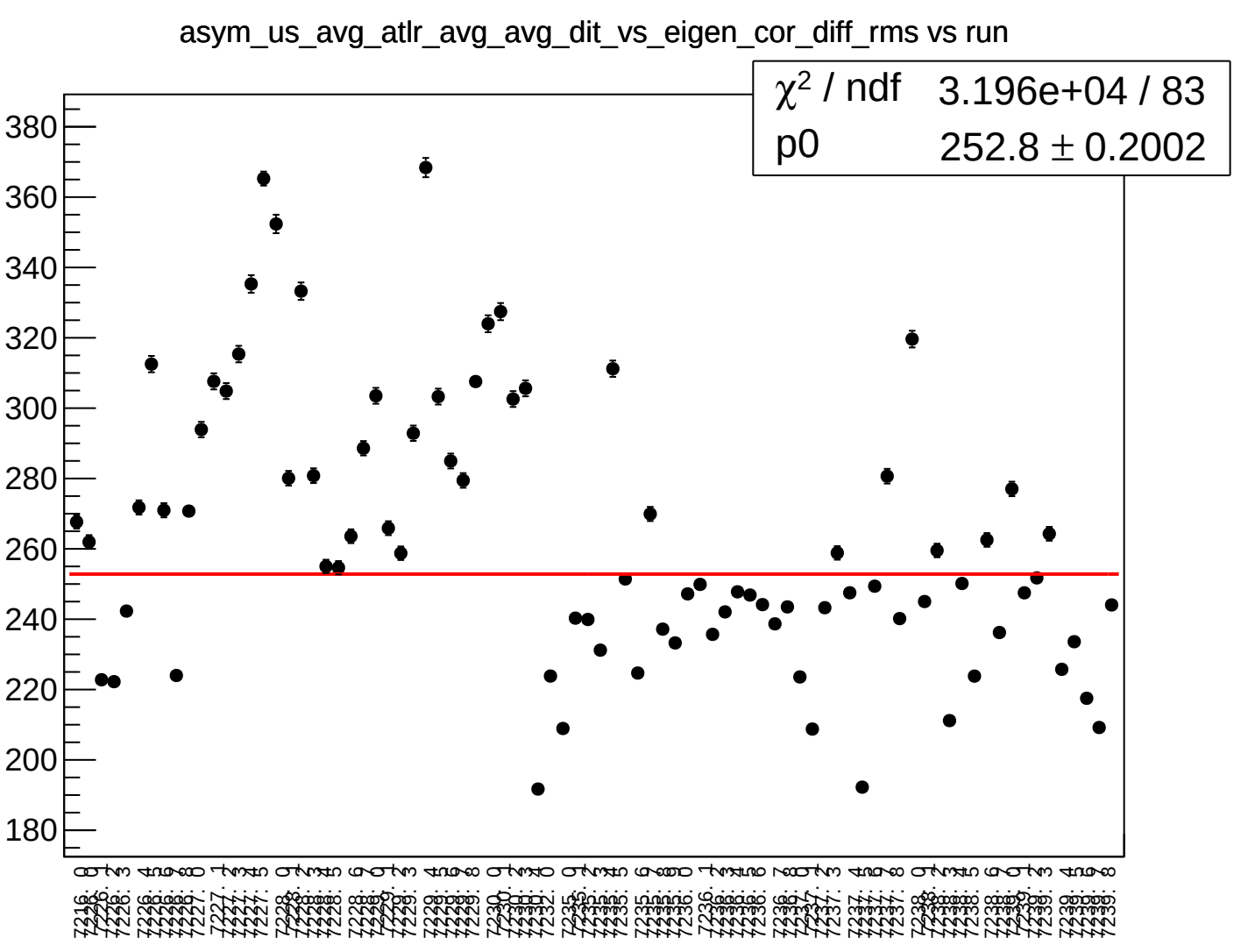

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 107.5 / 83
p0 0.389 ± 0.2832
pull
Entries 84
Mean 782.4
Std Dev 0

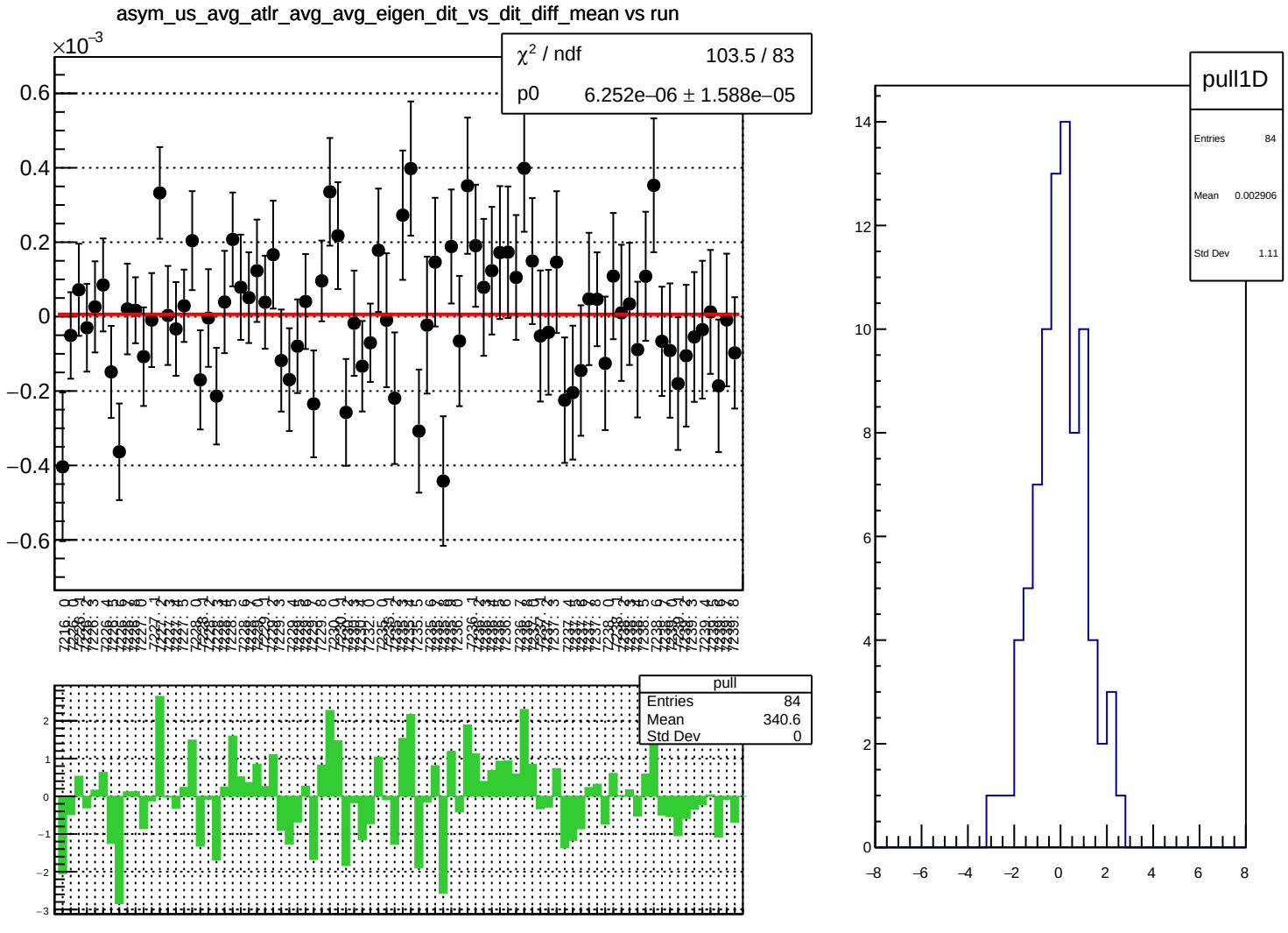

pull1D
Entries 84
Mean 0.003714
Std Dev 1.131

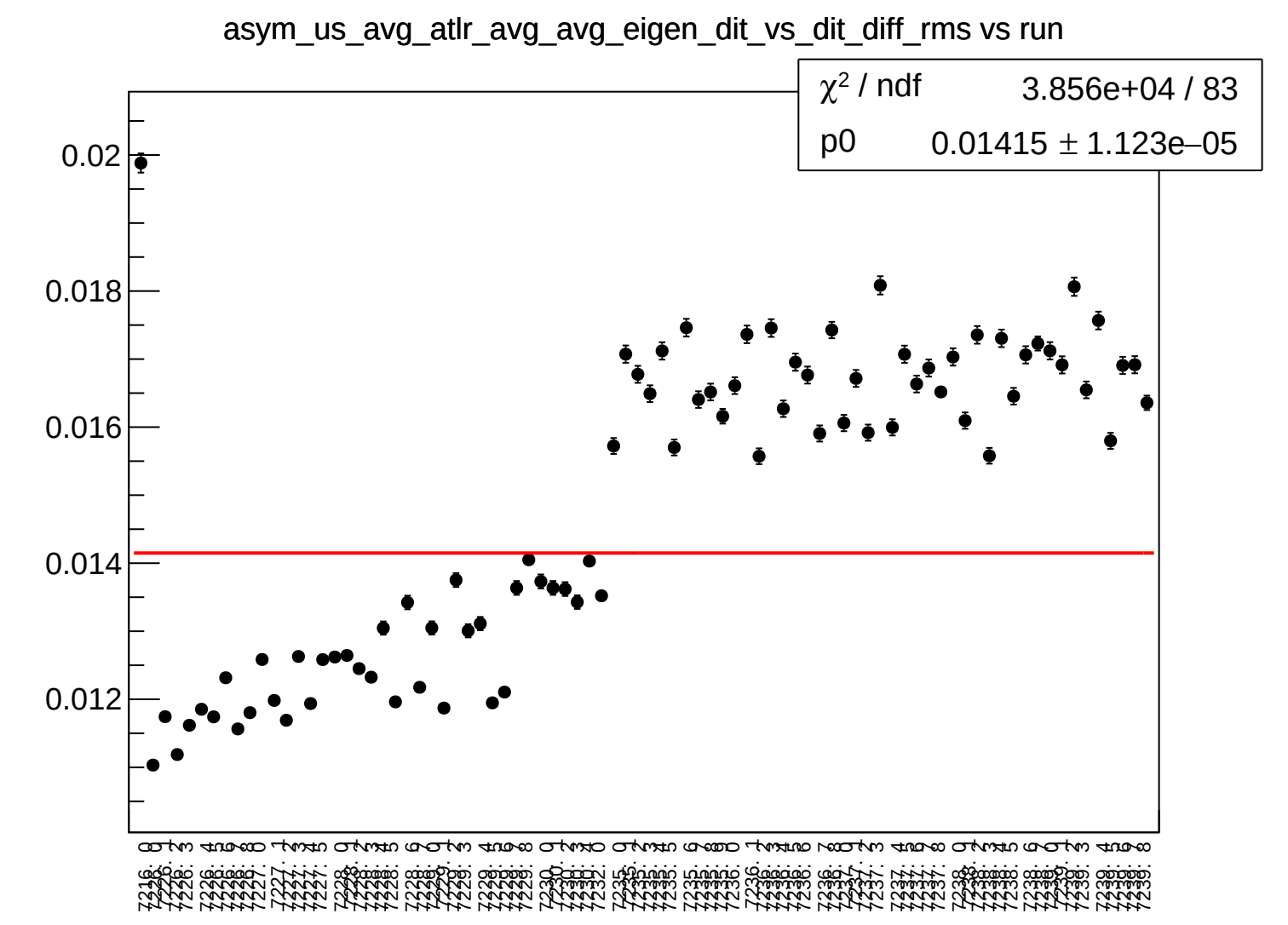

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.196e+04 / 83
p0 252.8 ± 0.2002
380
360
340
320
300
280
260
240
220
200
180

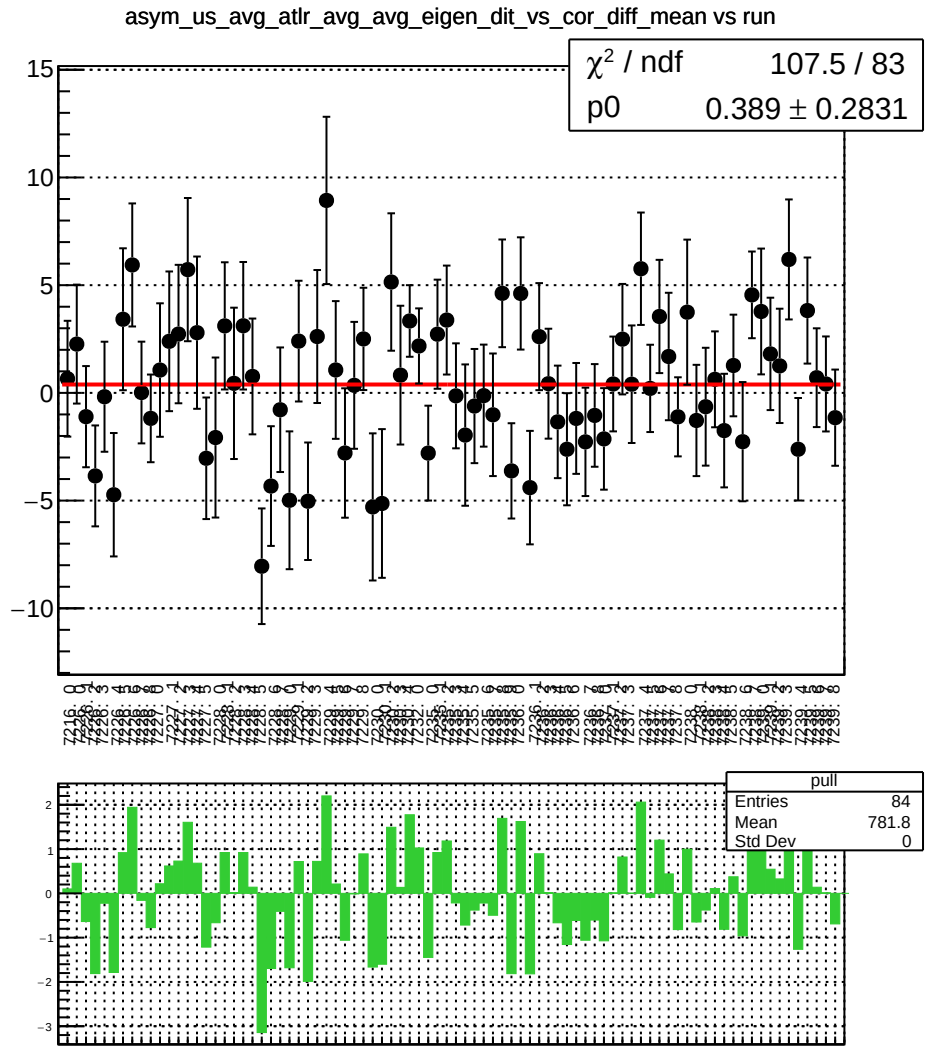

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.5 / 83
p0 0.389 ± 0.2832
pull
Entries 84
Mean 782.4
Std Dev 0

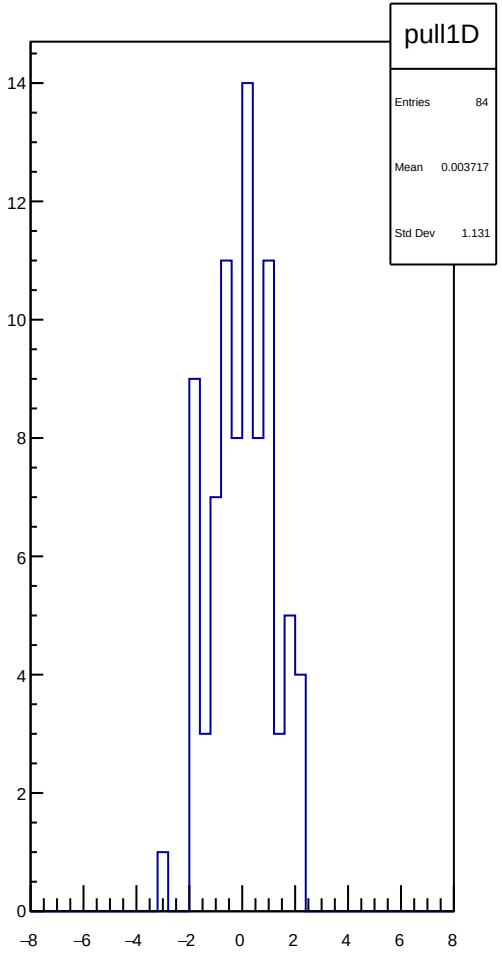

pull1D
Entries 84
Mean 0.003714
Std Dev 1.131

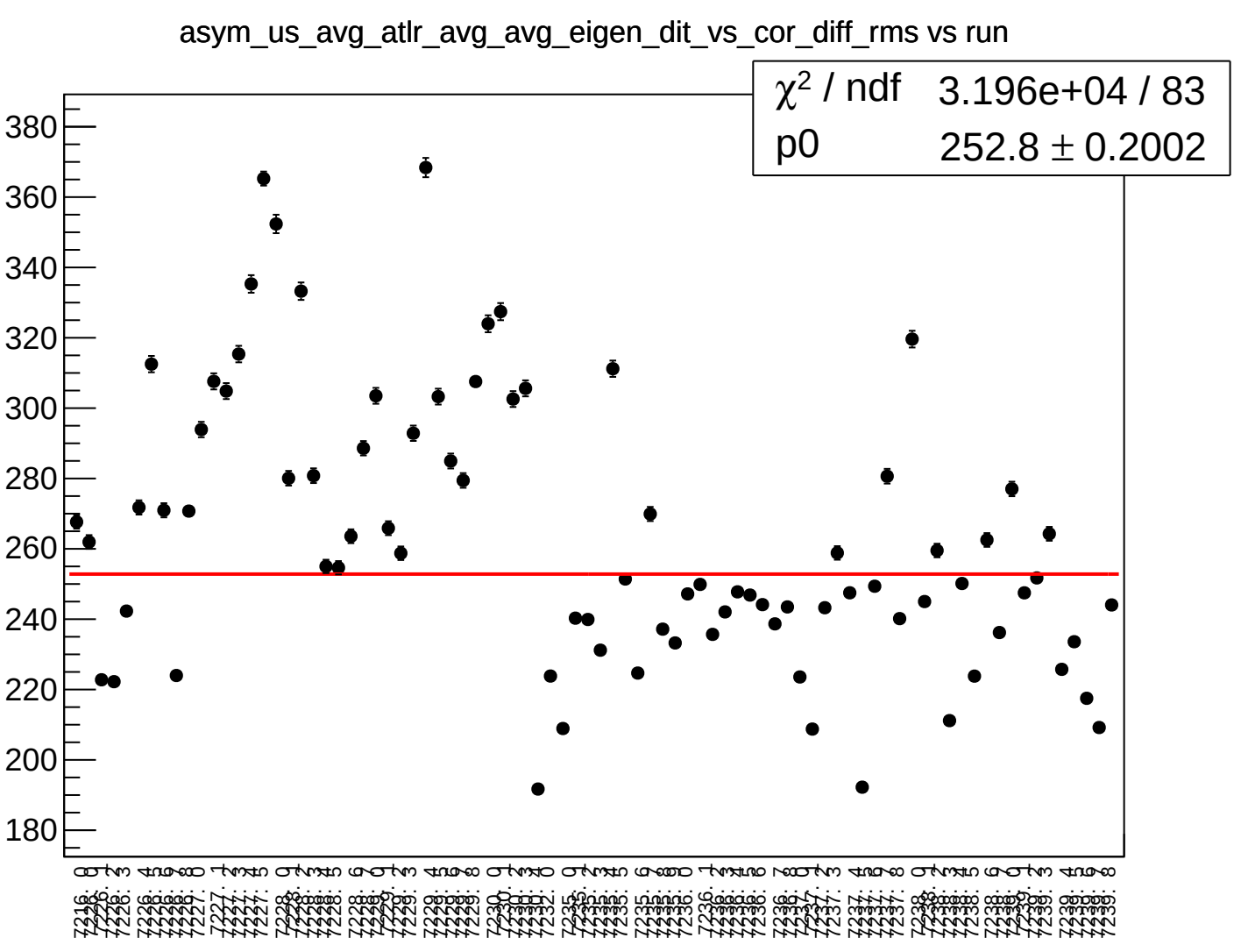

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.196e+04 / 83
p0 252.8 ± 0.2002
380
360
340
320
300
280
260
240
220
200
180

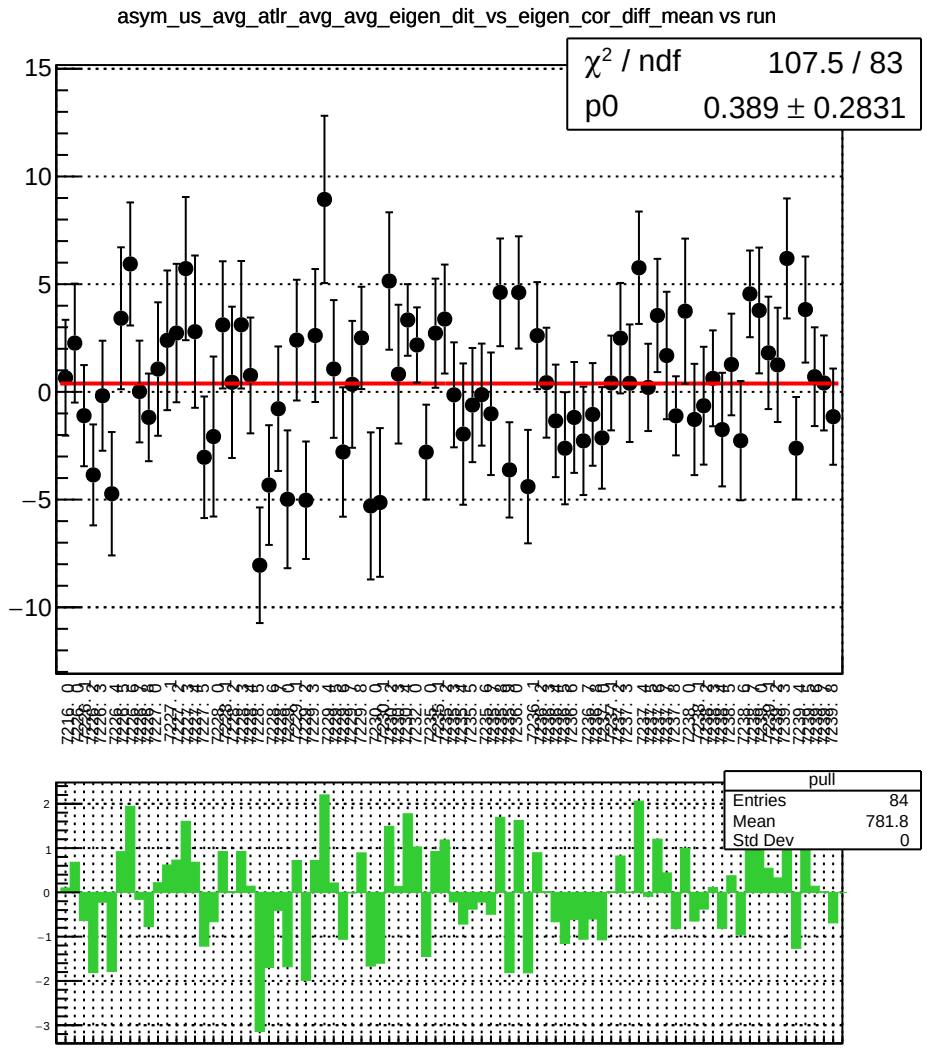

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103.5 / 83
p0 6.252e−06 ± 1.588e−05
pull
Entries 84
Mean 340.6
Std Dev 0
pull1D
Entries 84
Mean 0.002906
Std Dev 1.11

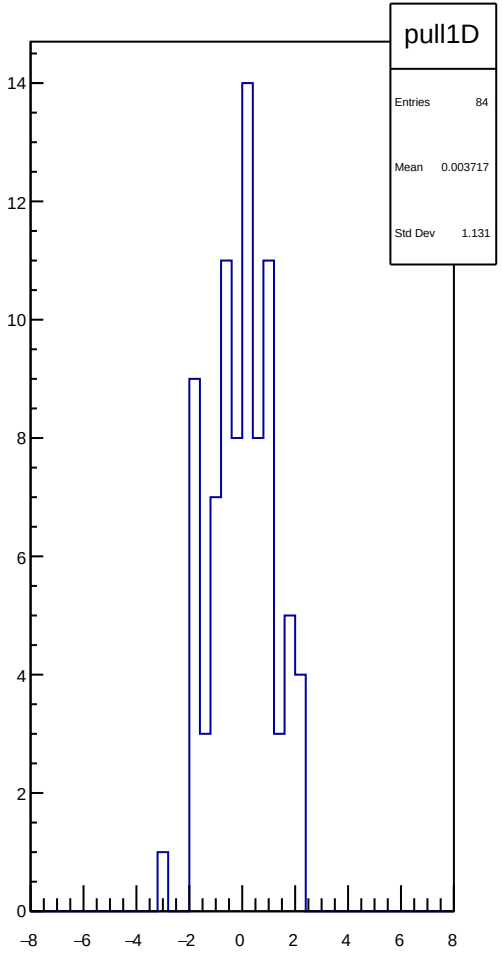

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.856e+04 / 83
p0 0.01415 ± 1.123e−05
0.02
0.018
0.016
0.014
0.012

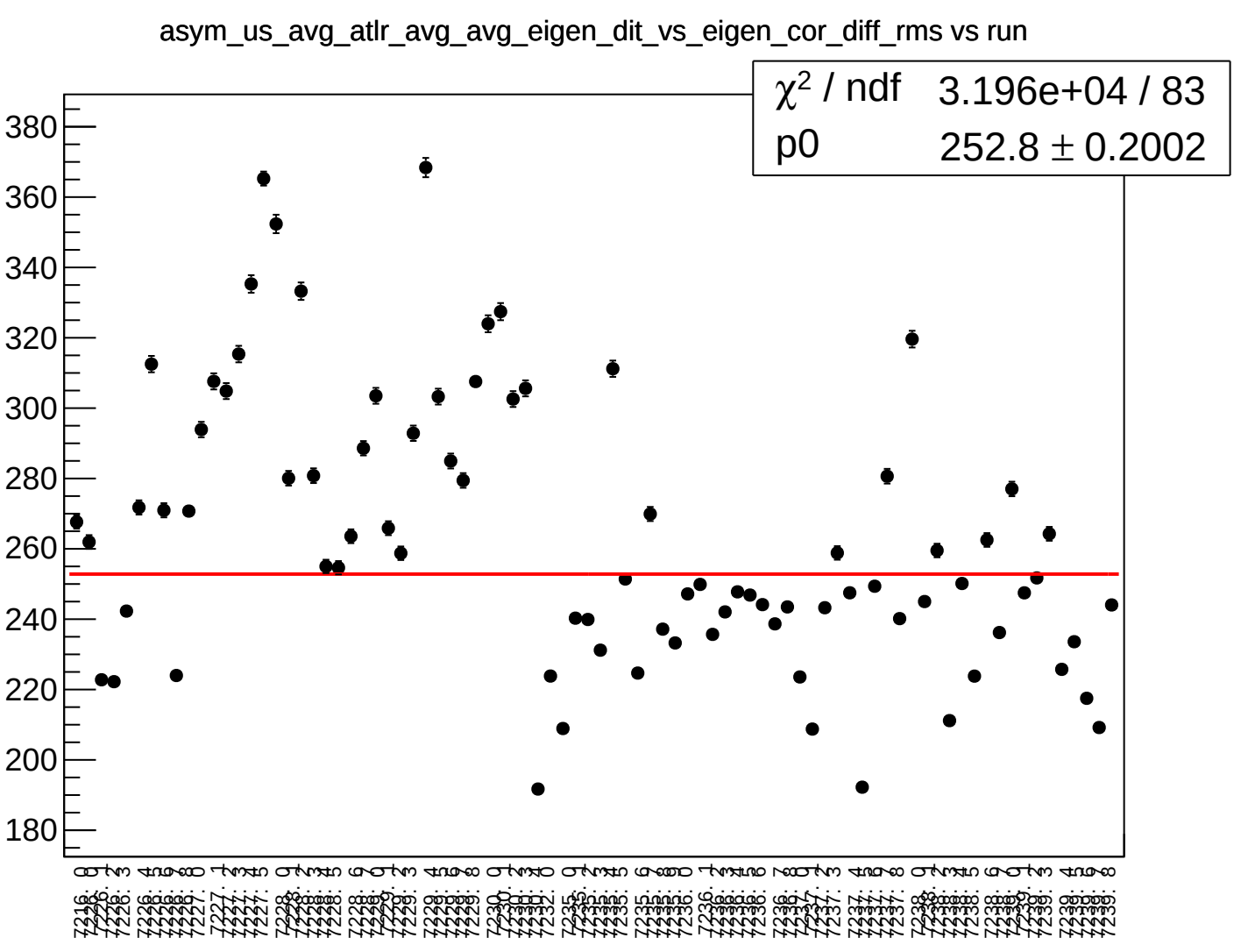

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 107.5 / 83
p0 0.389 ± 0.2831
pull
Entries 84
Mean 781.8
Std Dev 0

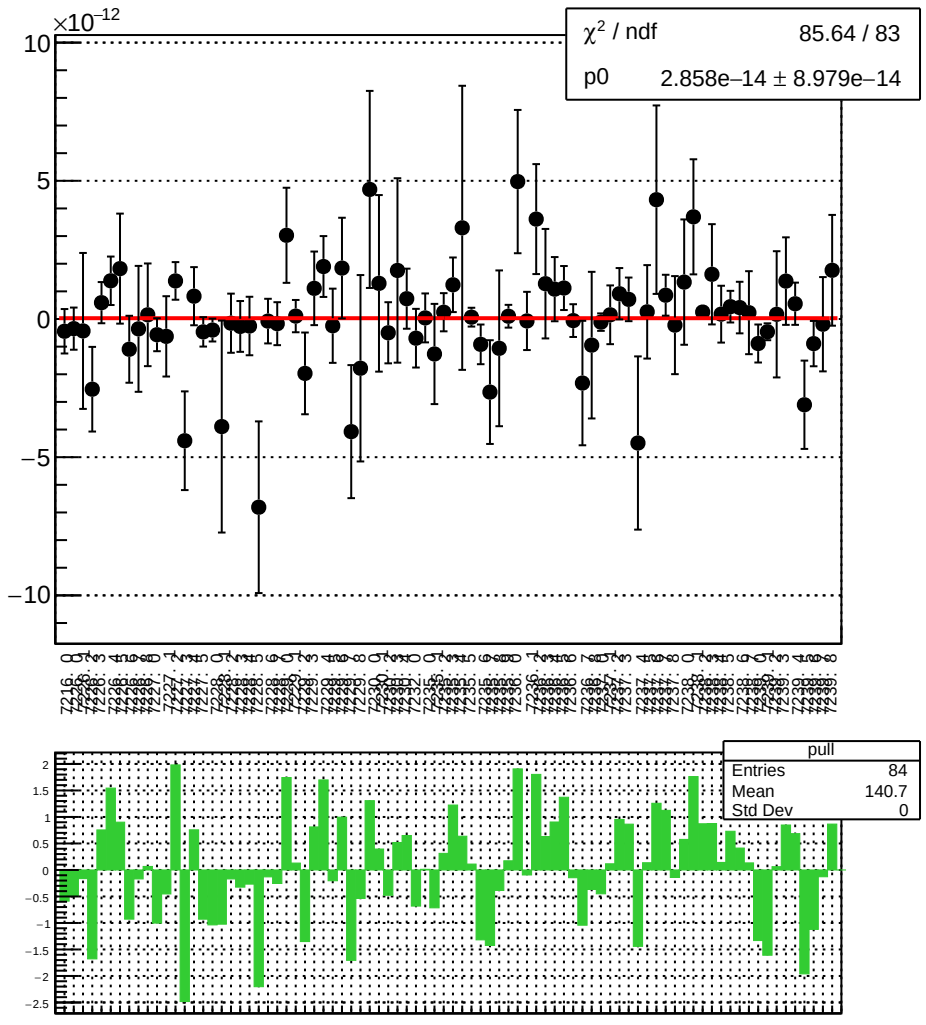

pull1D
Entries 84
Mean 0.003717
Std Dev 1.131

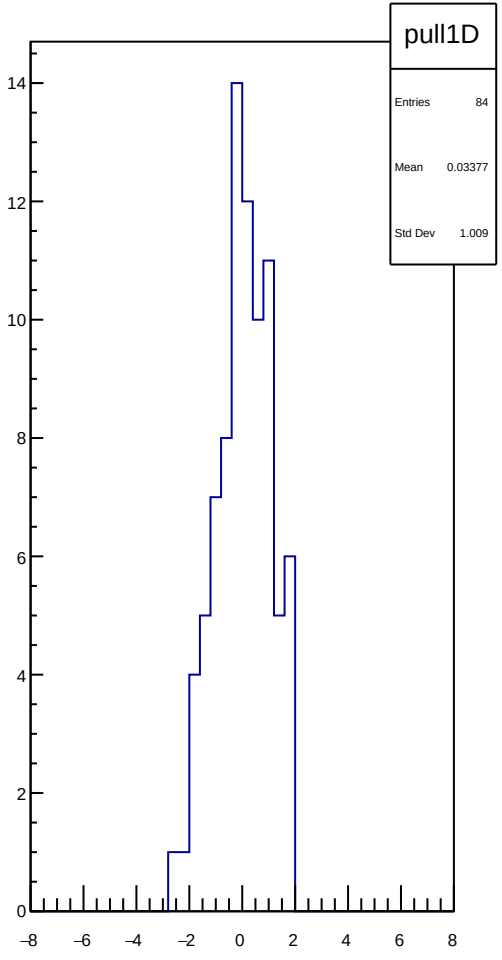

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.196e+04 / 83
p0 252.8 ± 0.2002
380
360
340
320
300
280
260
240
220
200
180

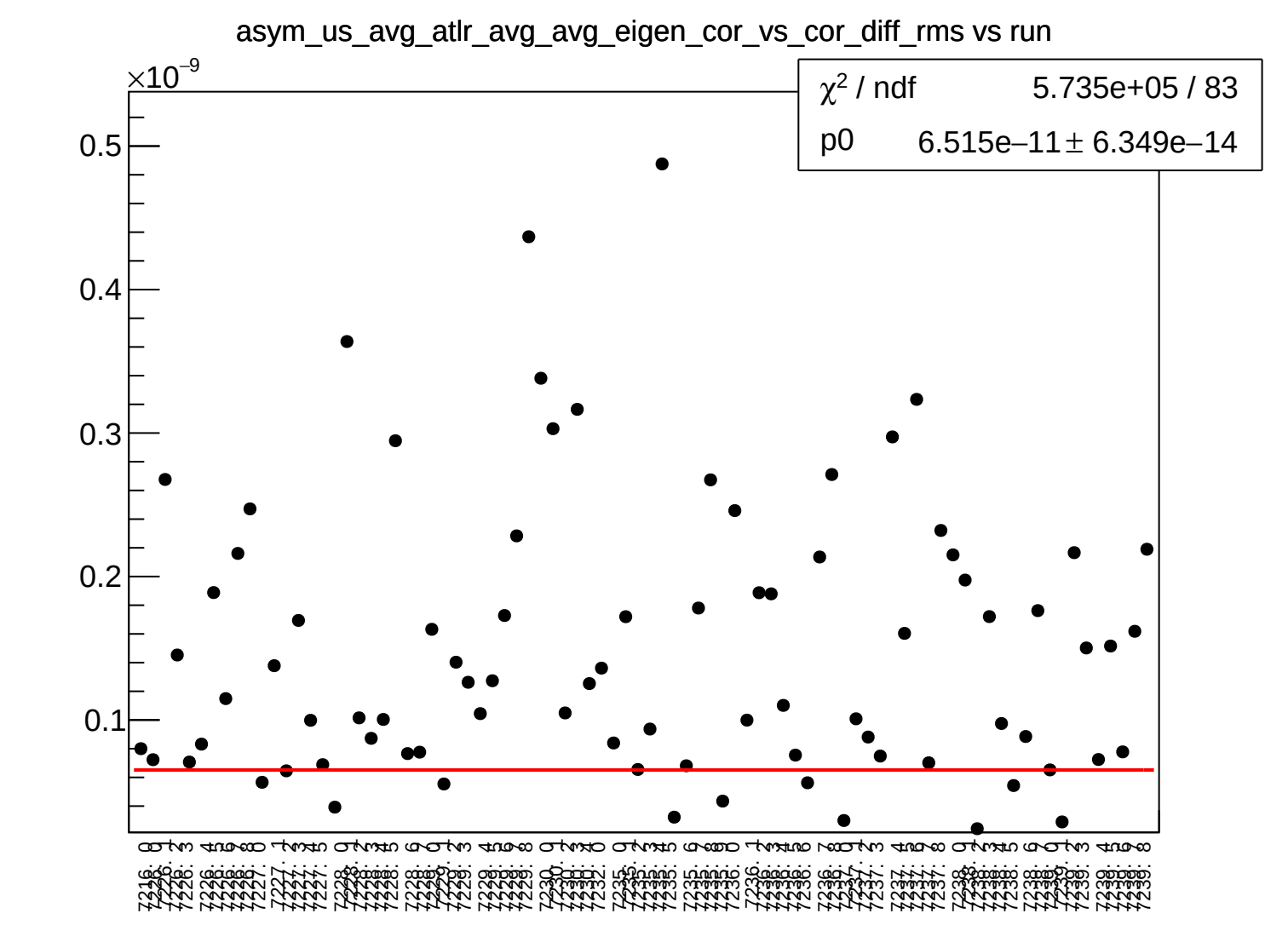

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.5 / 83
p0 0.389 ± 0.2831
pull
Entries 84
Mean 781.8
Std Dev 0

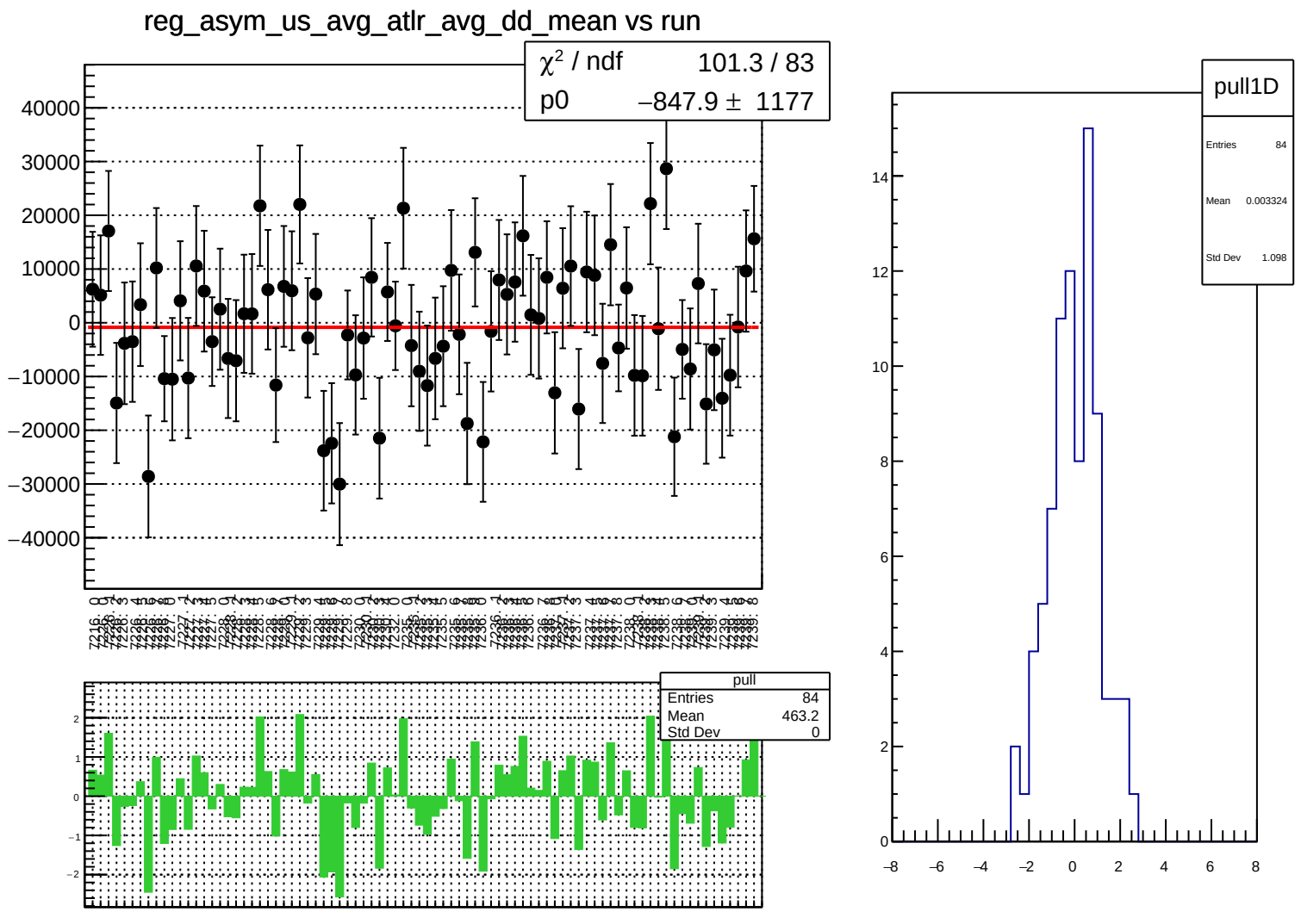

pull1D
Entries 84
Mean 0.003717
Std Dev 1.131

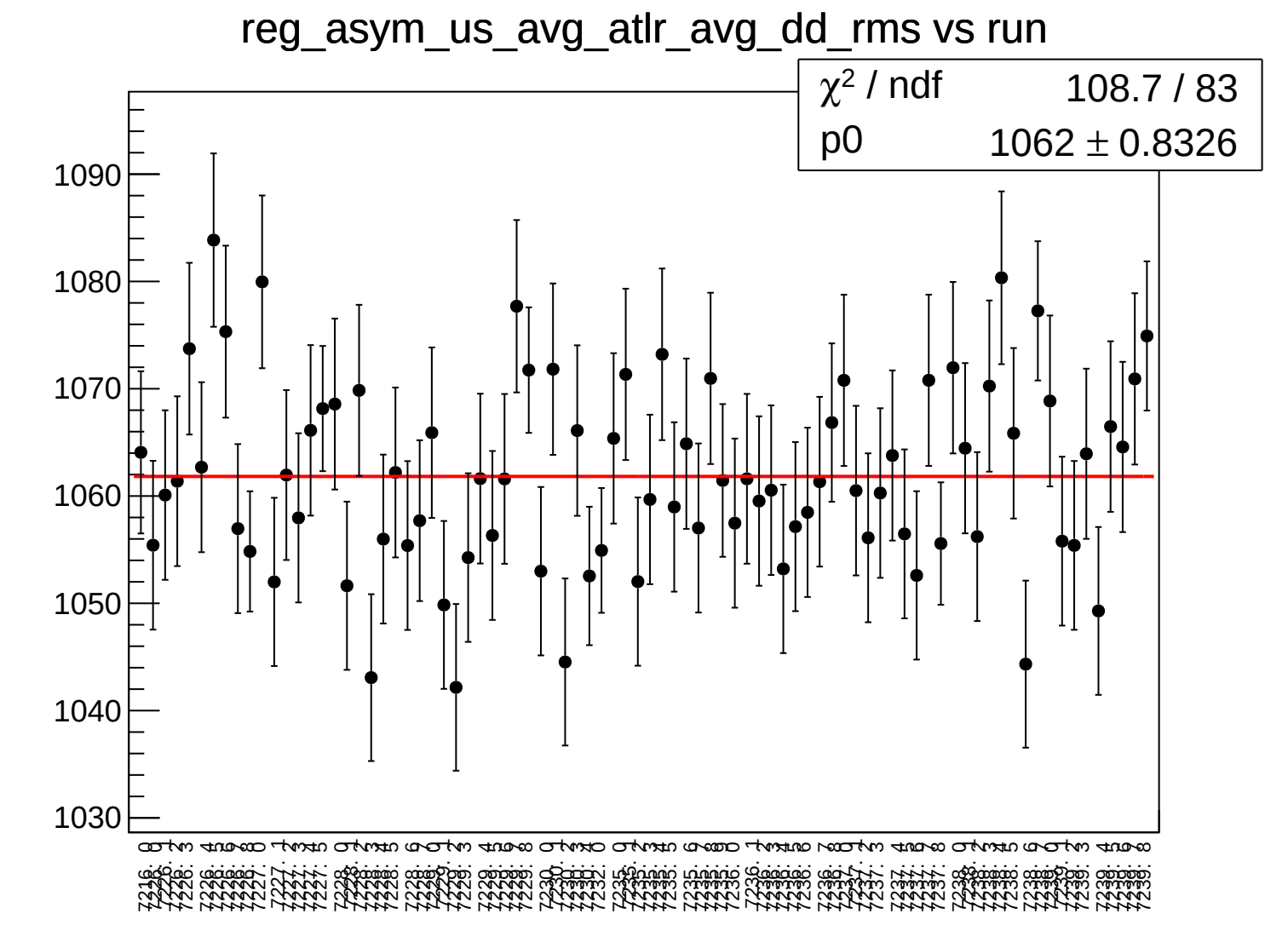

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.196e+04 / 83
p0 252.8 ± 0.2002
380
360
340
320
300
280
260
240
220
200
180

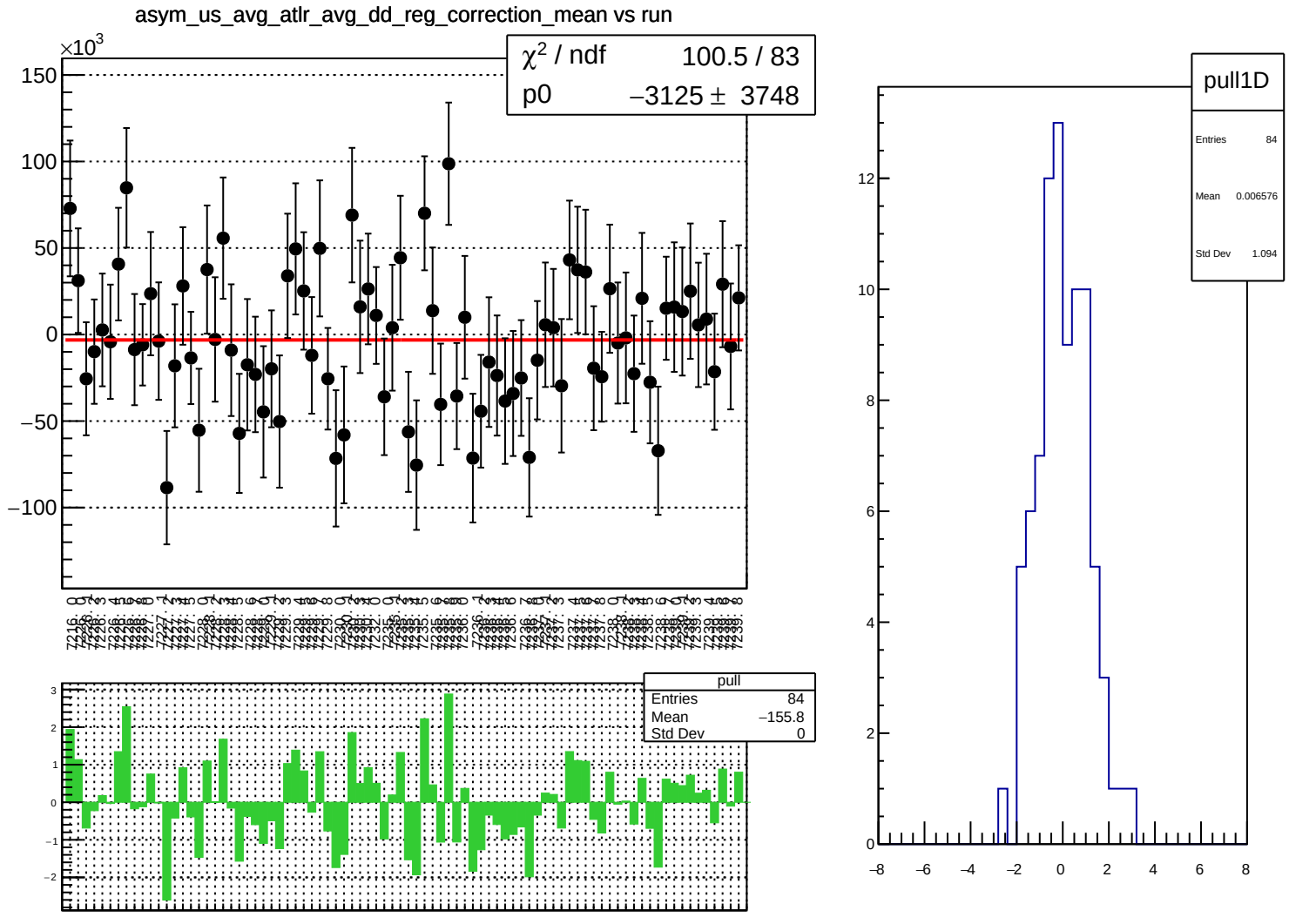

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.64 / 83
p0 2.858e−14 ± 8.979e−14
pull
Entries 84
Mean 140.7
Std Dev 0

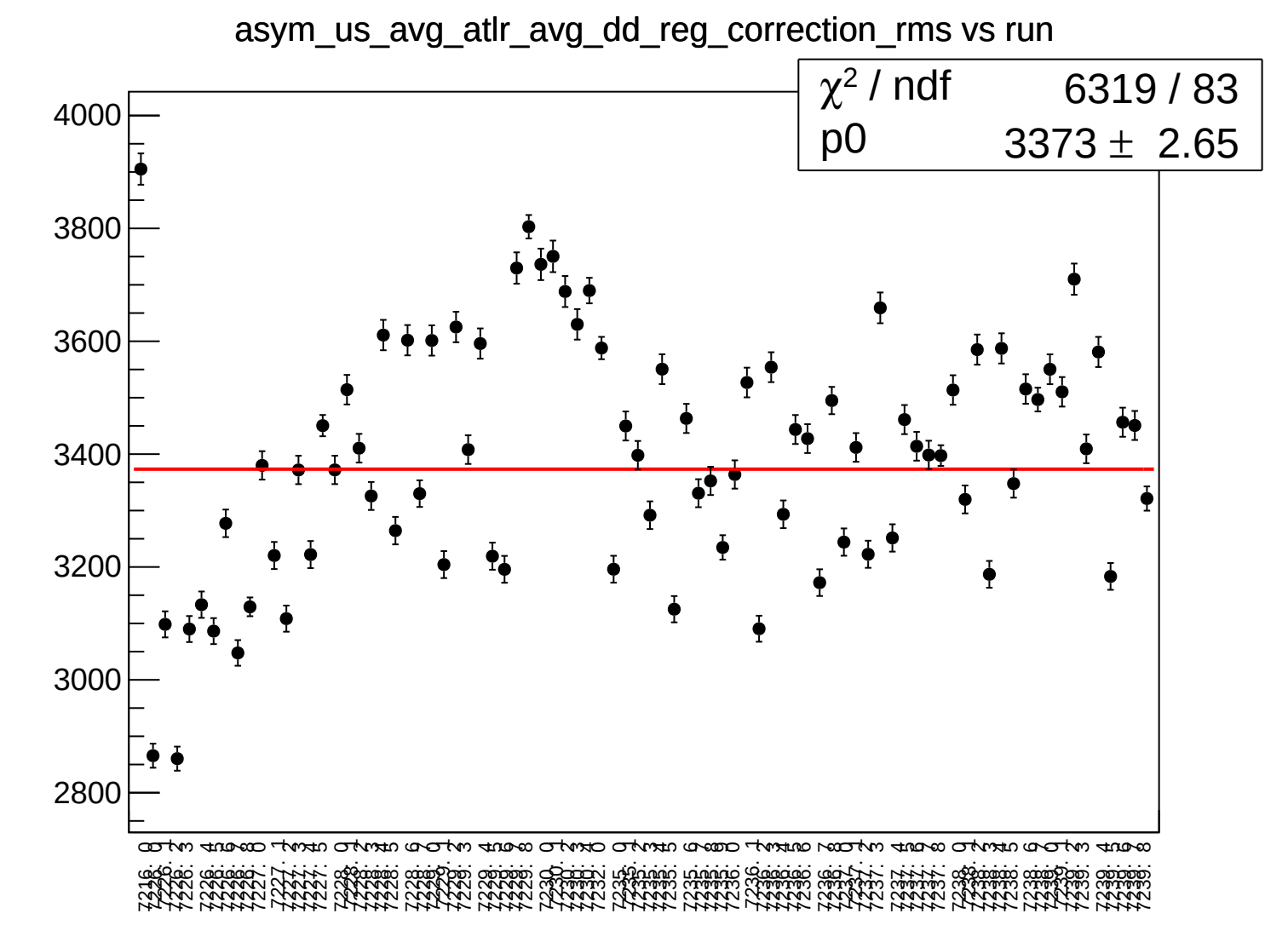

pull1D
Entries 84
Mean 0.03377
Std Dev 1.009

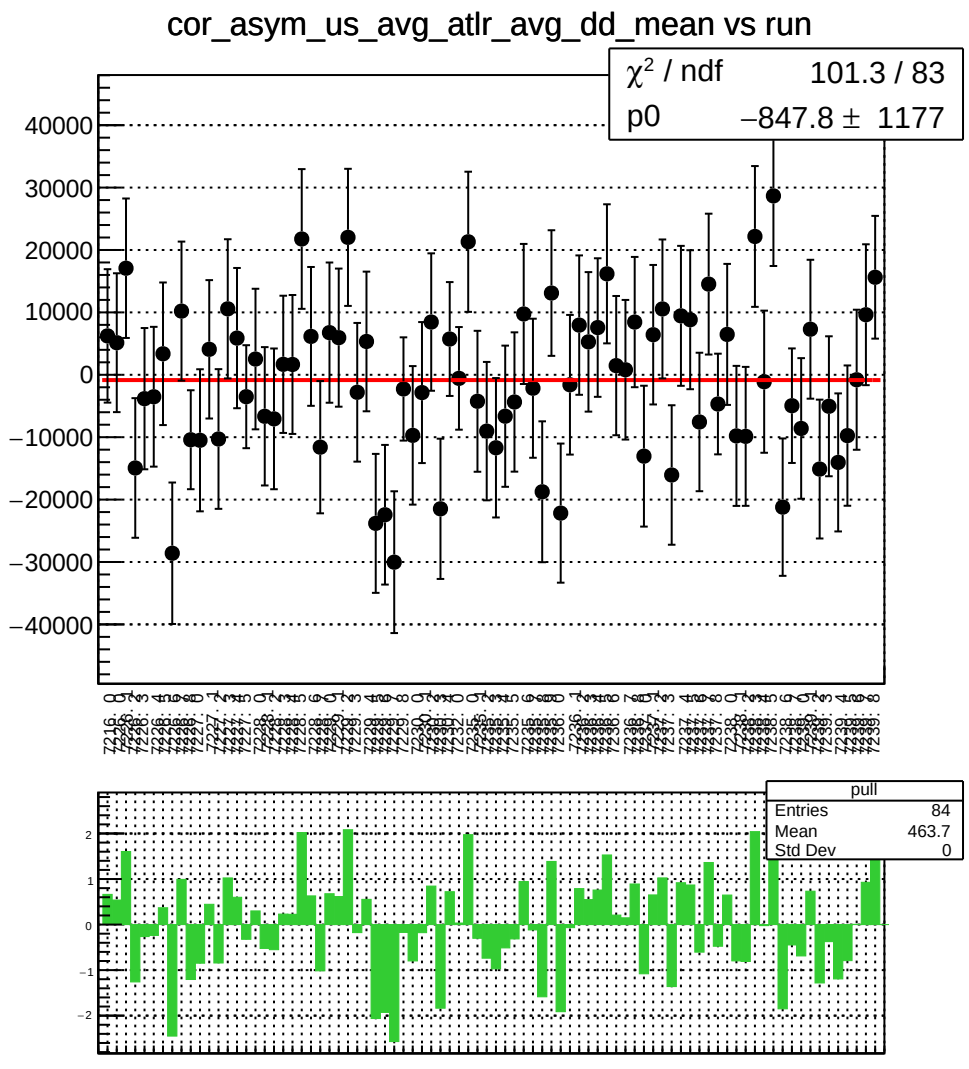

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.735e+05 / 83
p0 6.515e−11 ± 6.349e−14
0.5
0.4
0.3
0.2
0.1

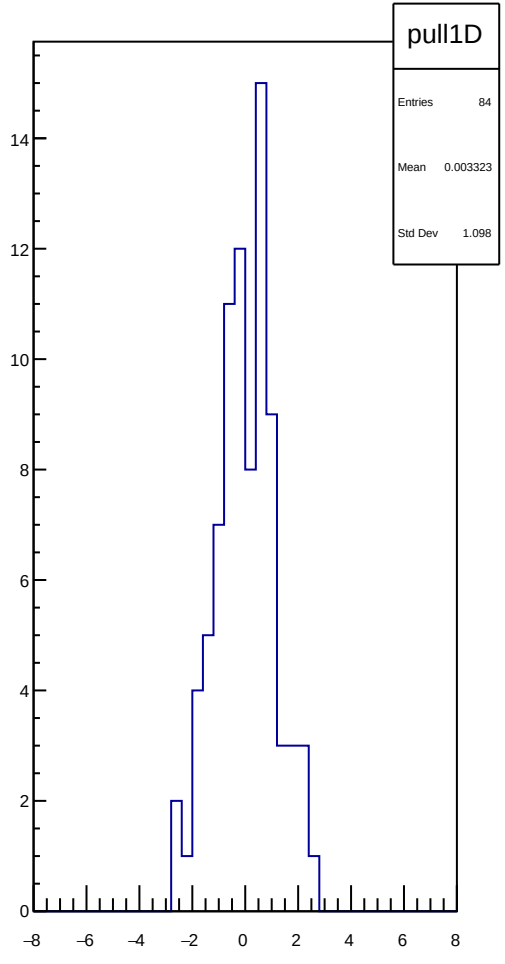

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 101.3 / 83
p0 −847.9 ± 1177
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 84
Mean 463.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.003324
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

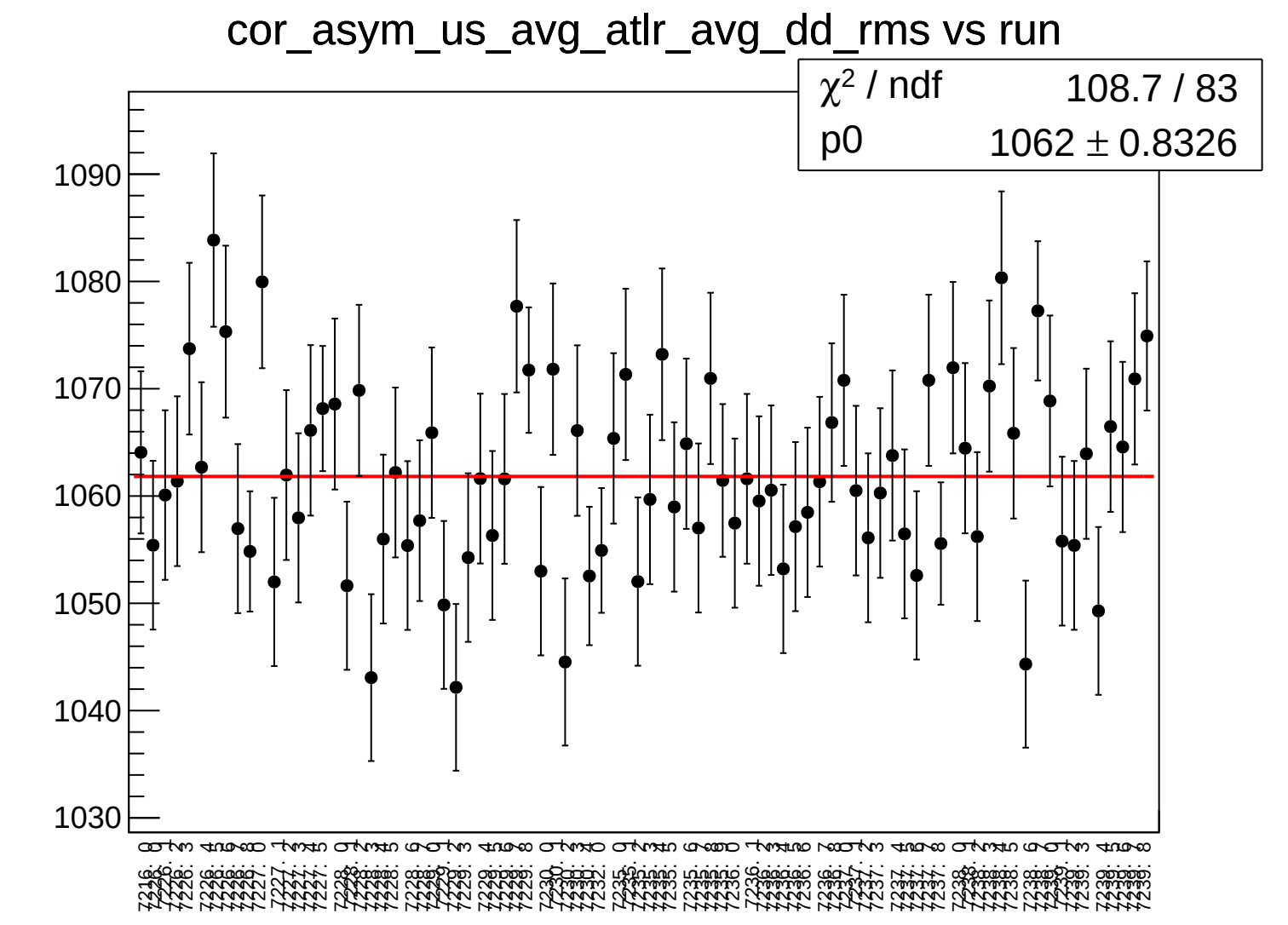

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 108.7 / 83
p0 1062 ± 0.8326
1090
1080
1070
1060
1050
1040
1030

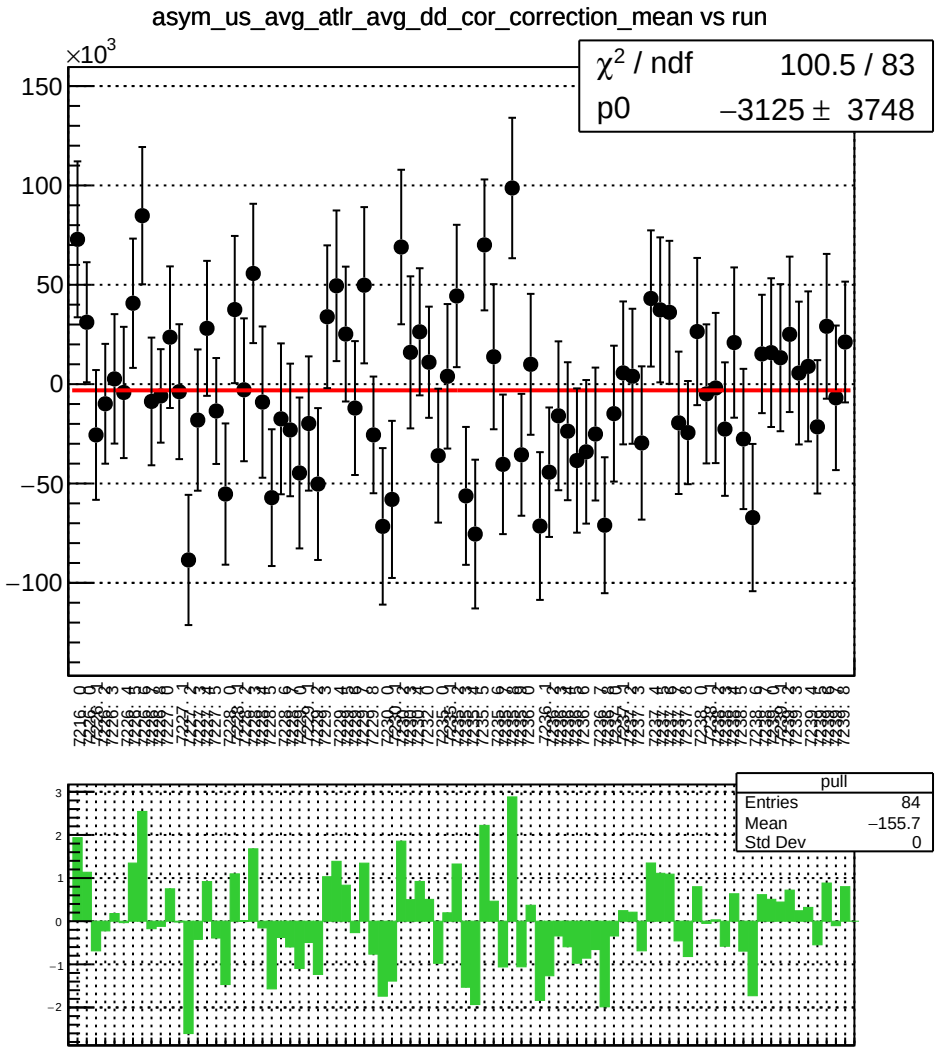

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 100.5 / 83
p0 −3125 ± 3748
150
100
50
0
−50
−100
pull
Entries 84
Mean −155.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.006576
Std Dev 1.094
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

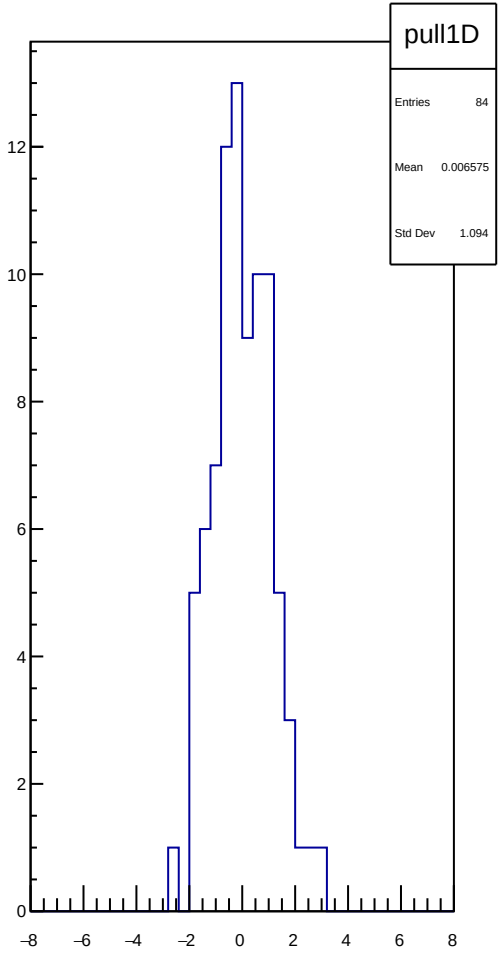

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ^2 / ndf 6319 / 83
p0 3373 ± 2.65
4000
3800
3600
3400
3200
3000
2800


cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 101.3 / 83
p0 −847.8 ± 1177
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 84
Mean 463.7
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 84
Mean 0.003323
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 108.7 / 83
p0 1062 ± 0.8326
1090
1080
1070
1060
1050
1040
1030


asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
×10^3
150
100
50
0
−50
−100
χ² / ndf 100.5 / 83
p0 −3125 ± 3748
pull
Entries 84
Mean −155.7
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 84
Mean 0.006575
Std Dev 1.094
12
10
8
6
4
2
0
−8
−6
−4
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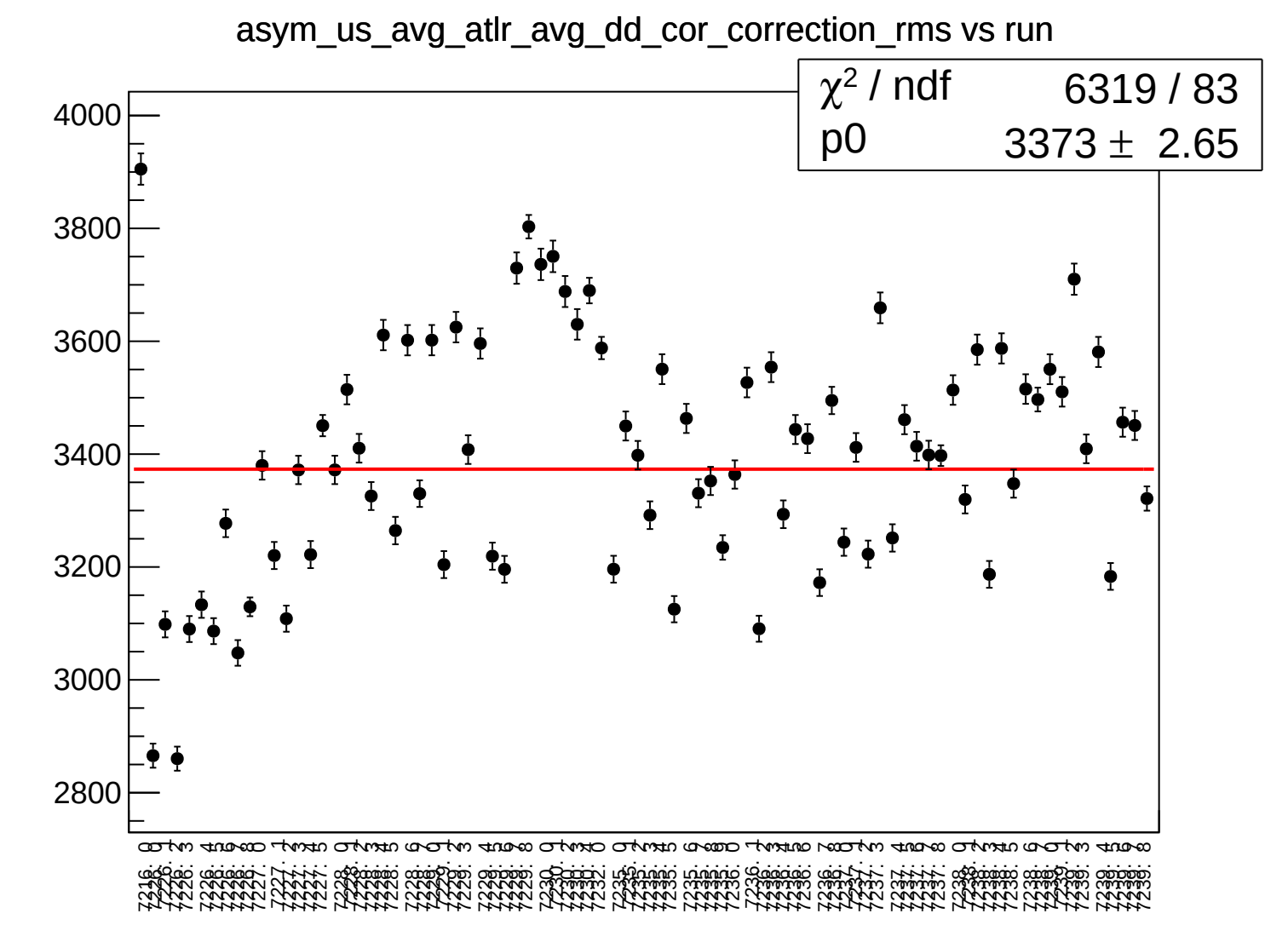
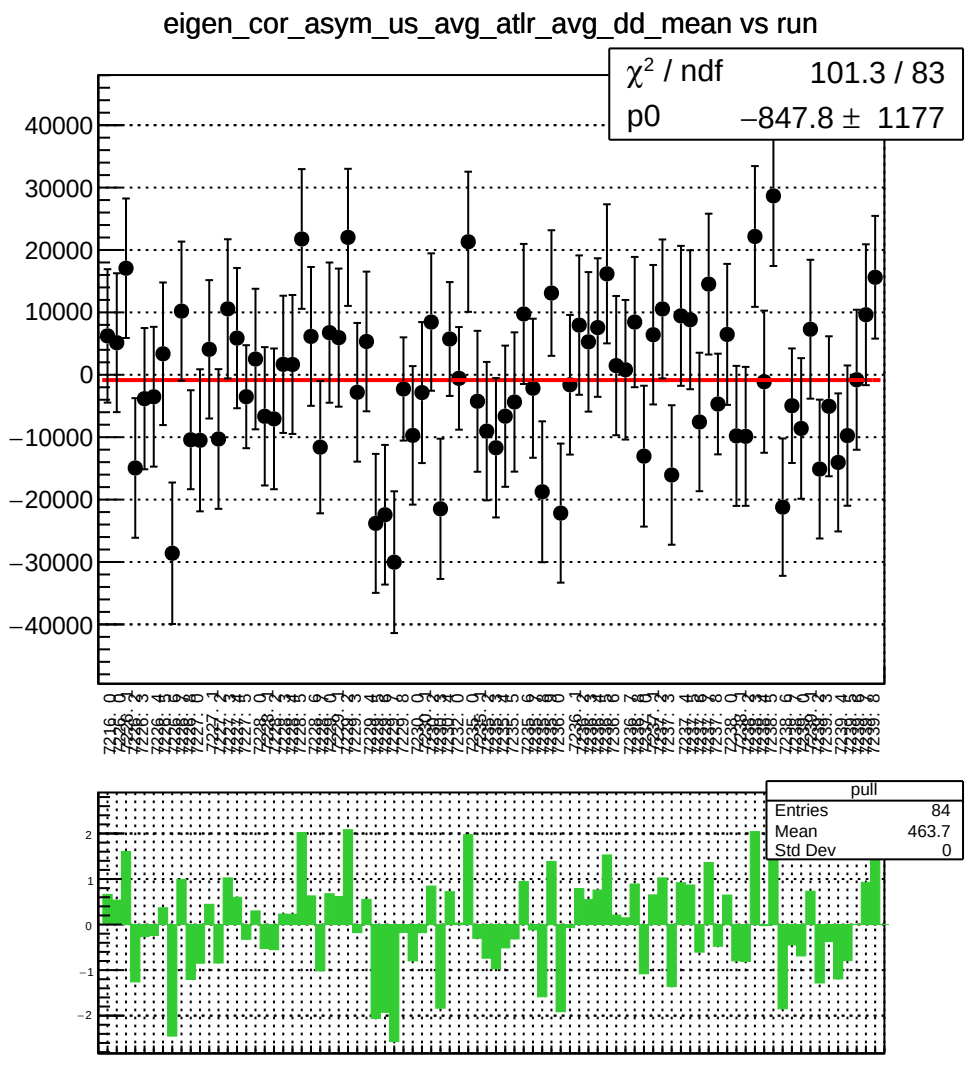
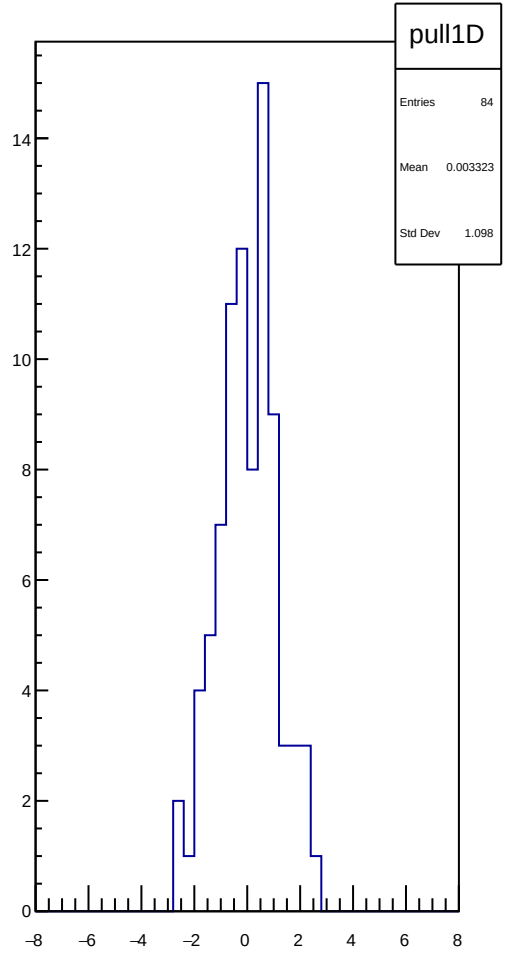
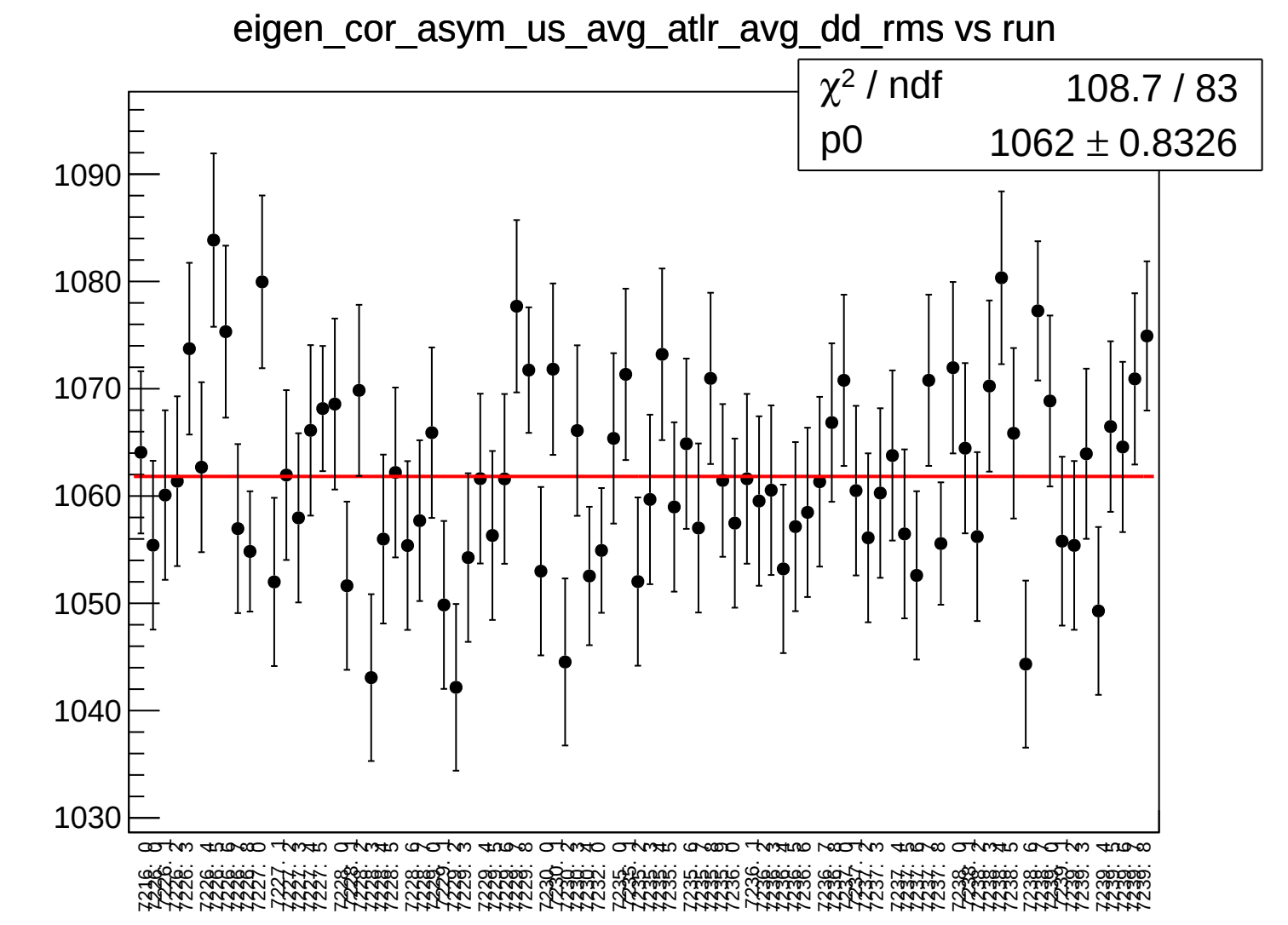
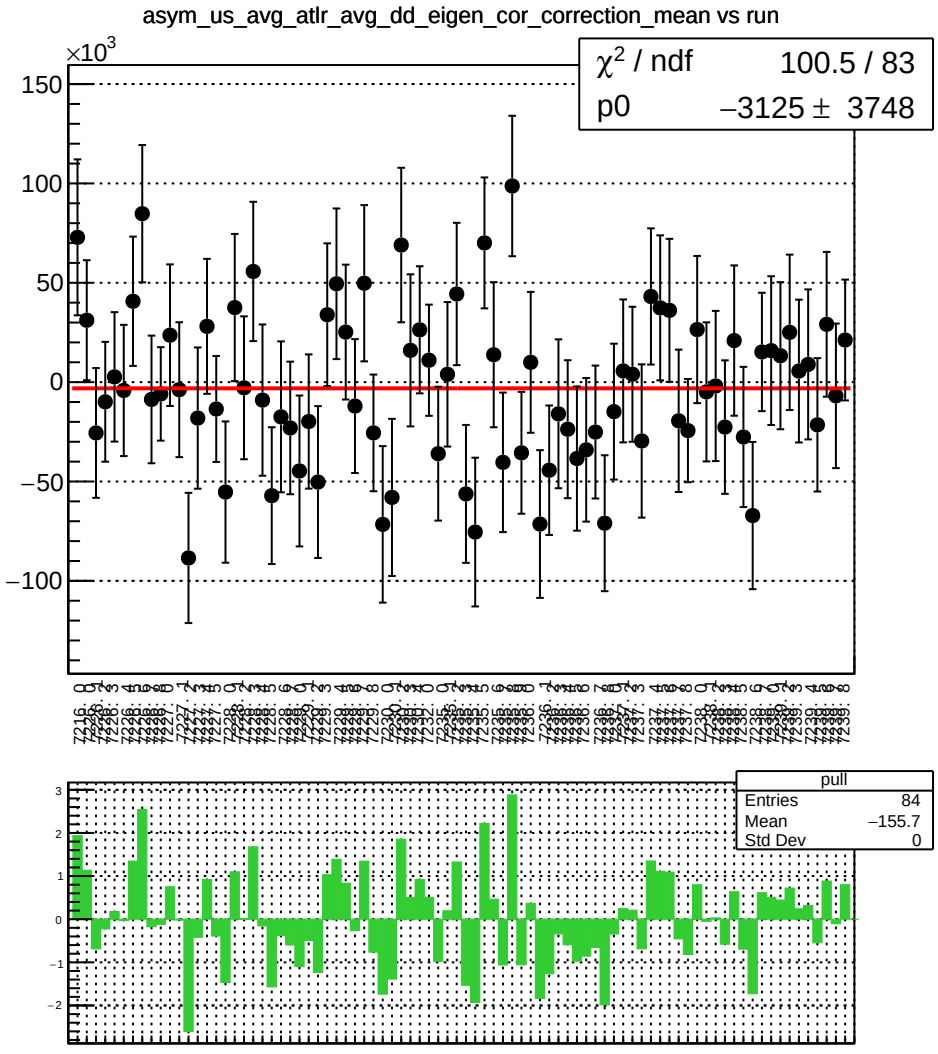
2
4
6
8

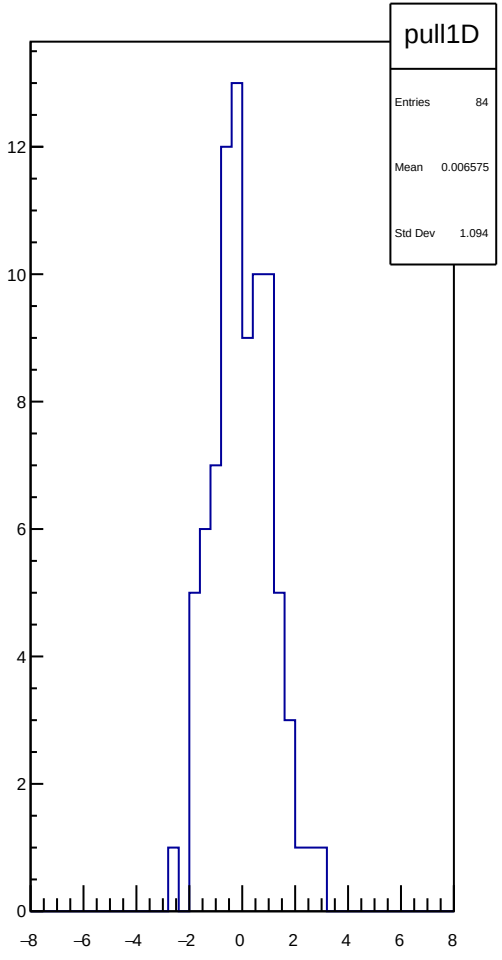

asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 6319 / 83
p0 3373 ± 2.65
4000
3800
3600
3400
3200
3000
2800


eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 101.3 / 83
p0 −847.8 ± 1177
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 84
Mean 463.7
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 84
Mean 0.003323
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 108.7 / 83
p0 1062 ± 0.8326
1090
1080
1070
1060
1050
1040
1030


asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 100.5 / 83
p0 −3125 ± 3748
150
100
50
0
−50
−100
pull
Entries 84
Mean −155.7
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 84
Mean 0.006575
Std Dev 1.094
12
10
8
6
4
2
0
−8
−6
−4
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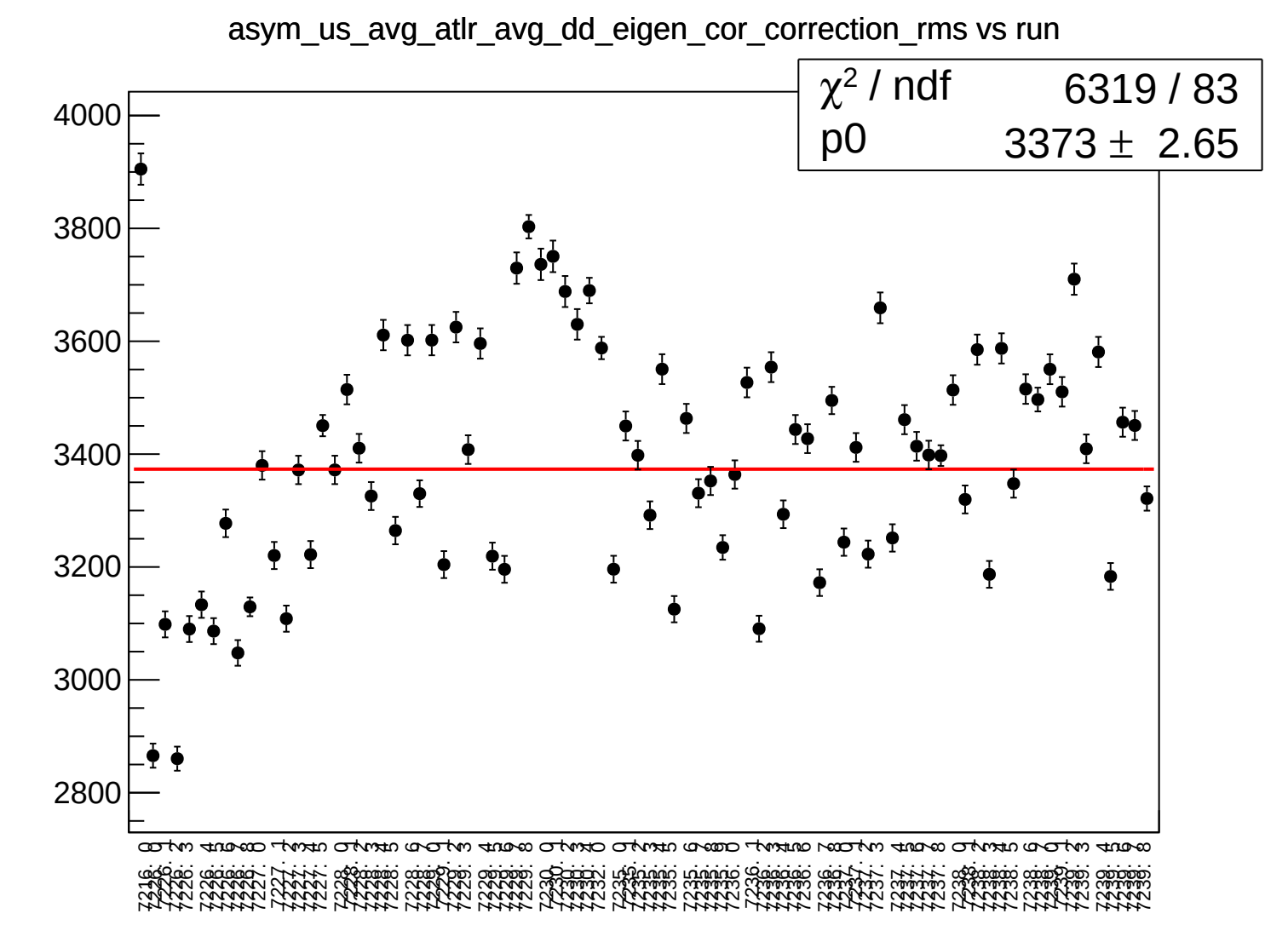
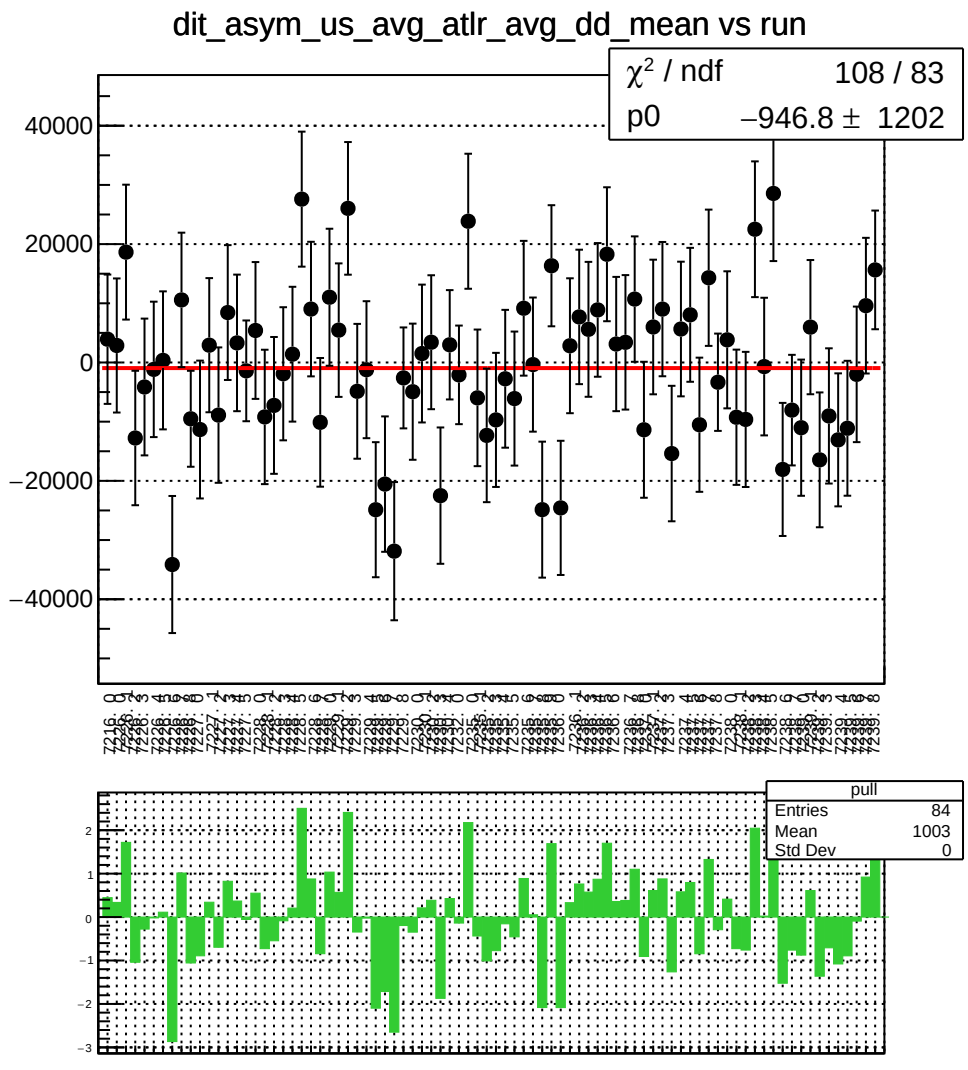
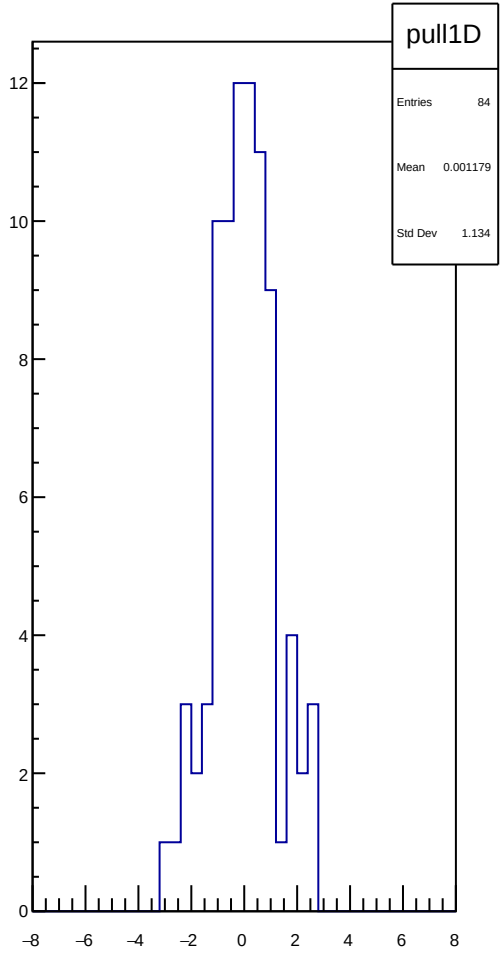
0
2
4
6
8


asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 6319 / 83
p0 3373 ± 2.65
4000
3800
3600
3400
3200
3000
2800


dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 108 / 83
p0 −946.8 ± 1202
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 1003
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 84
Mean 0.001179
Std Dev 1.134
12
10
8
6
4
2
0
−8
−6
−4
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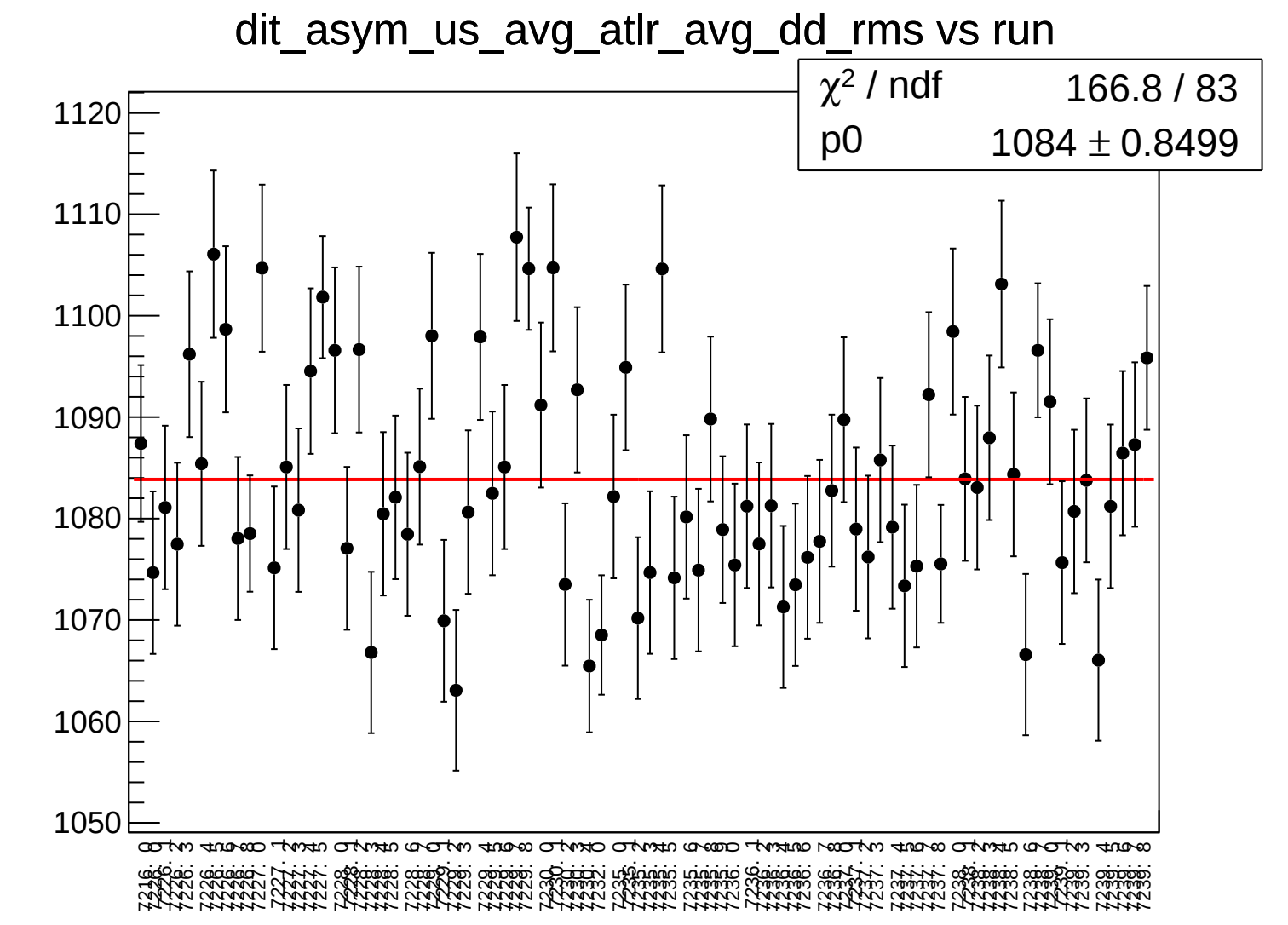
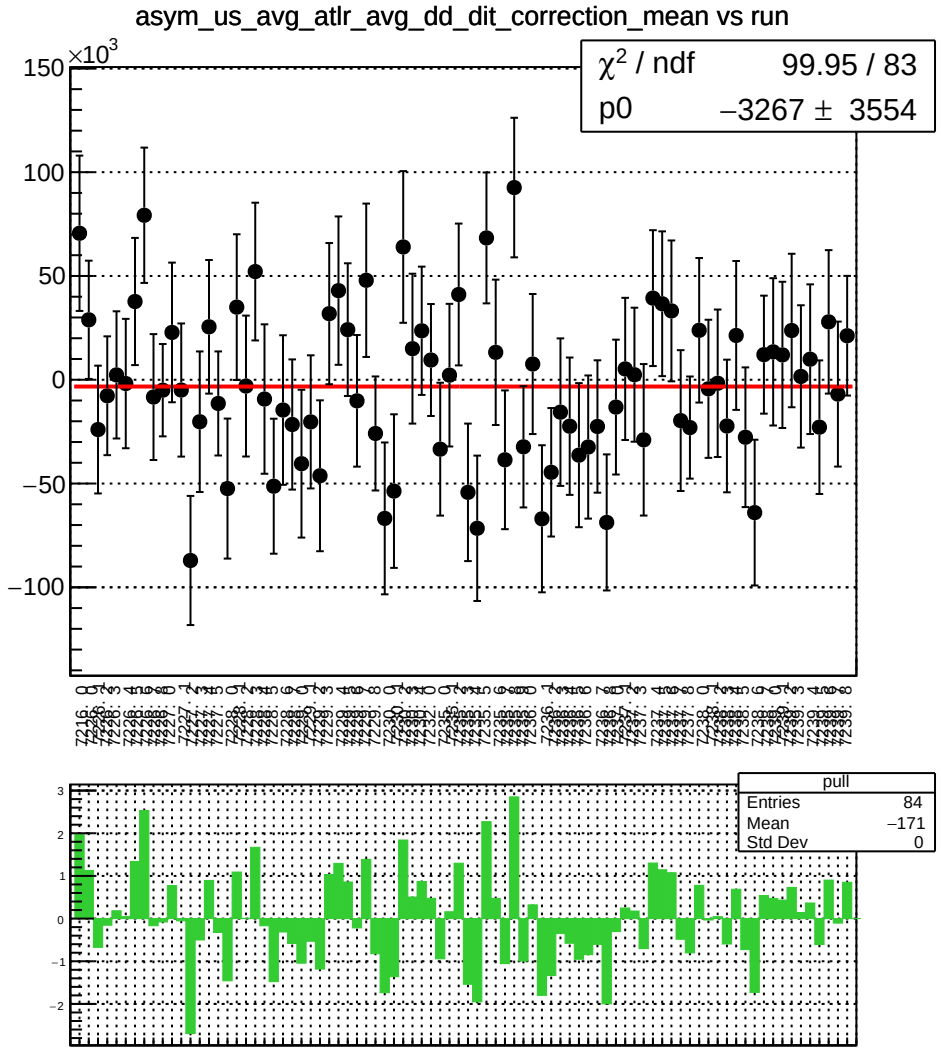
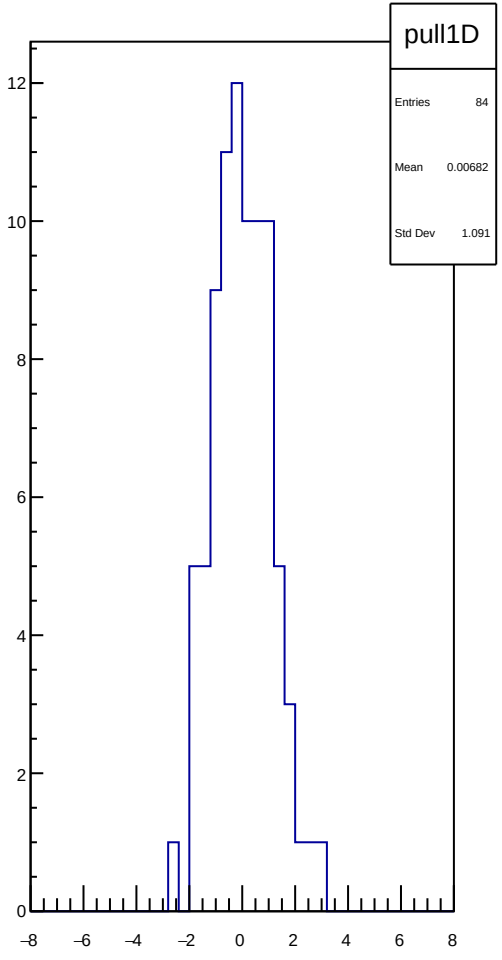
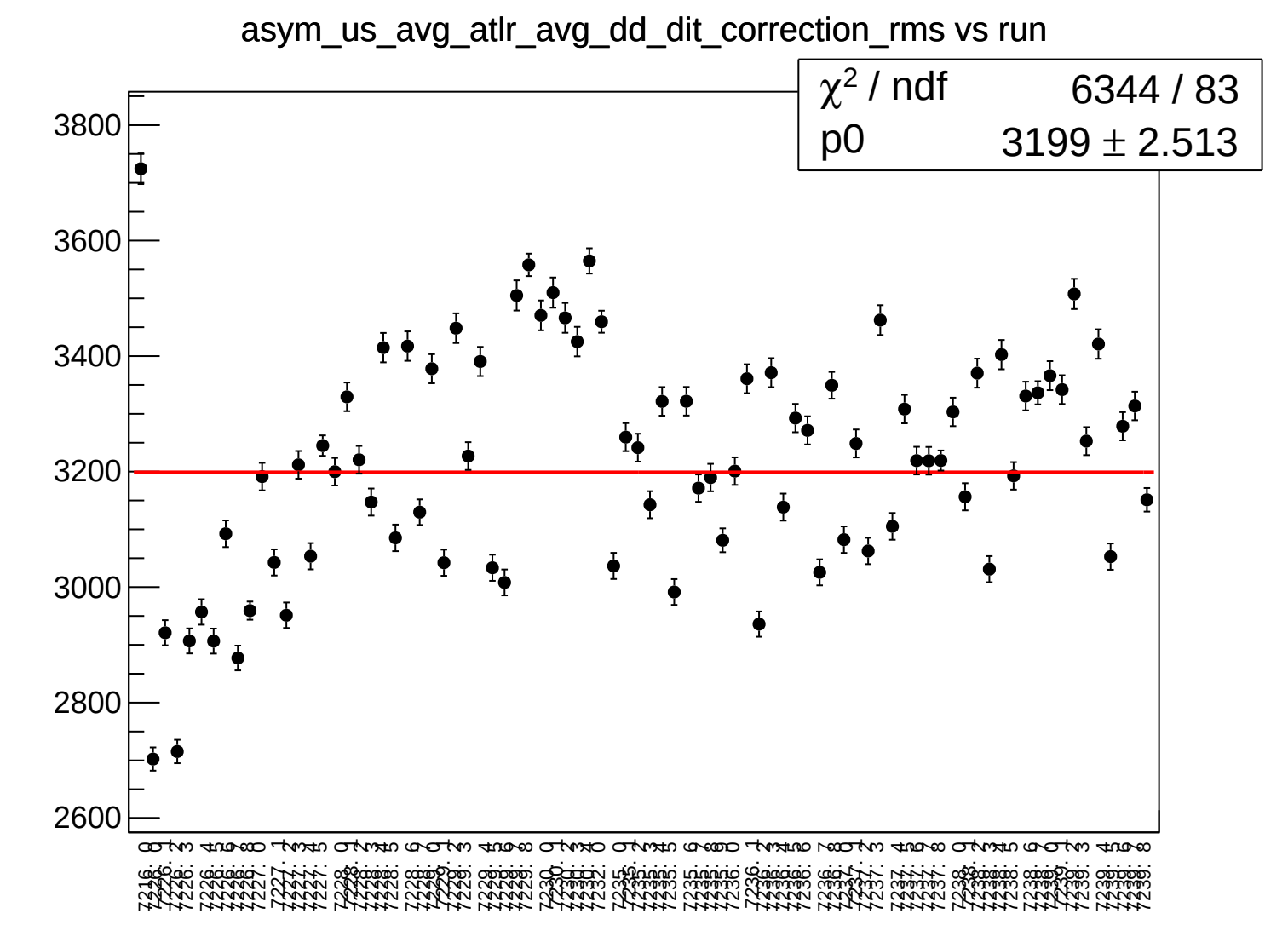
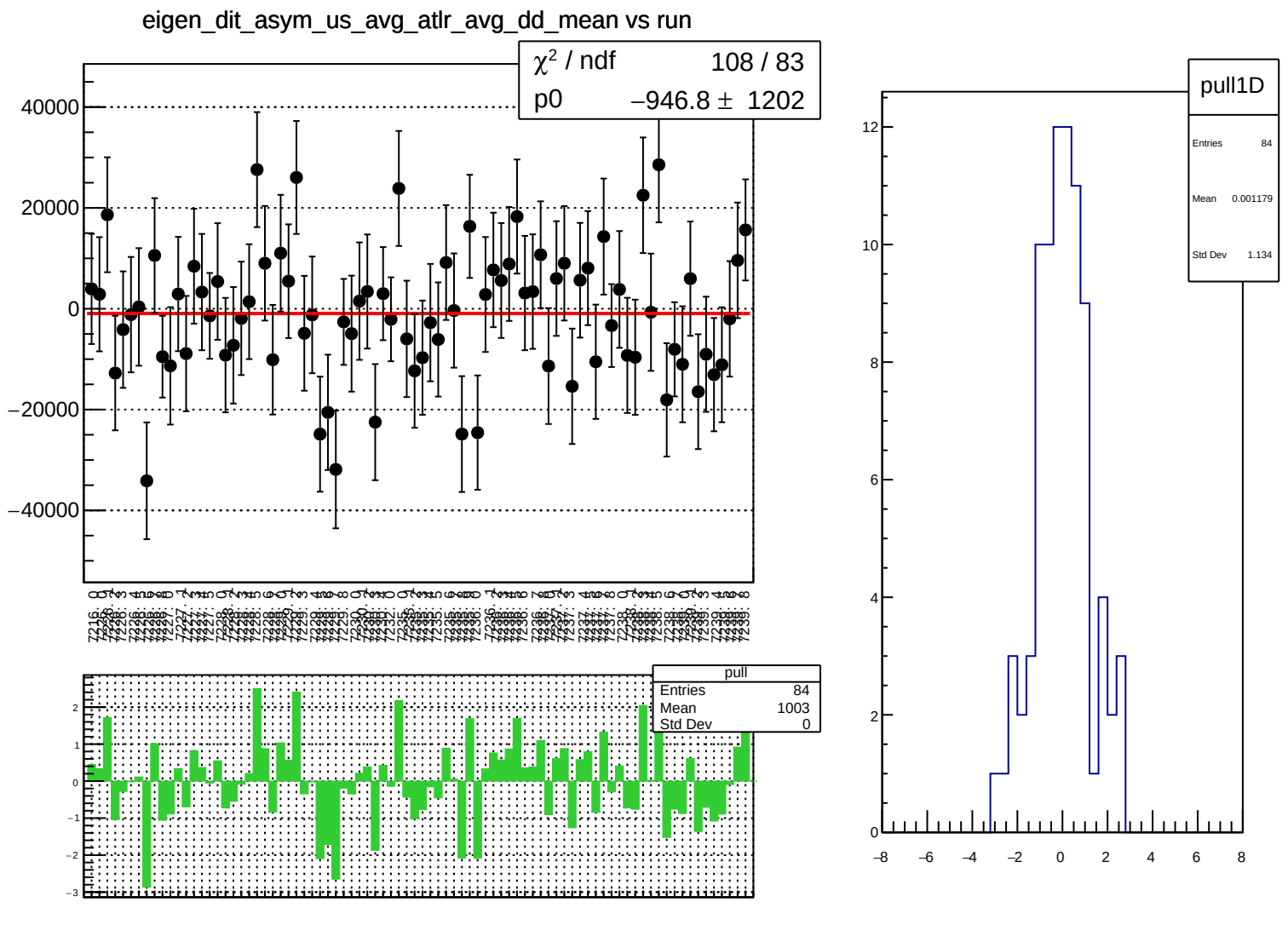
0
2
4
6
8

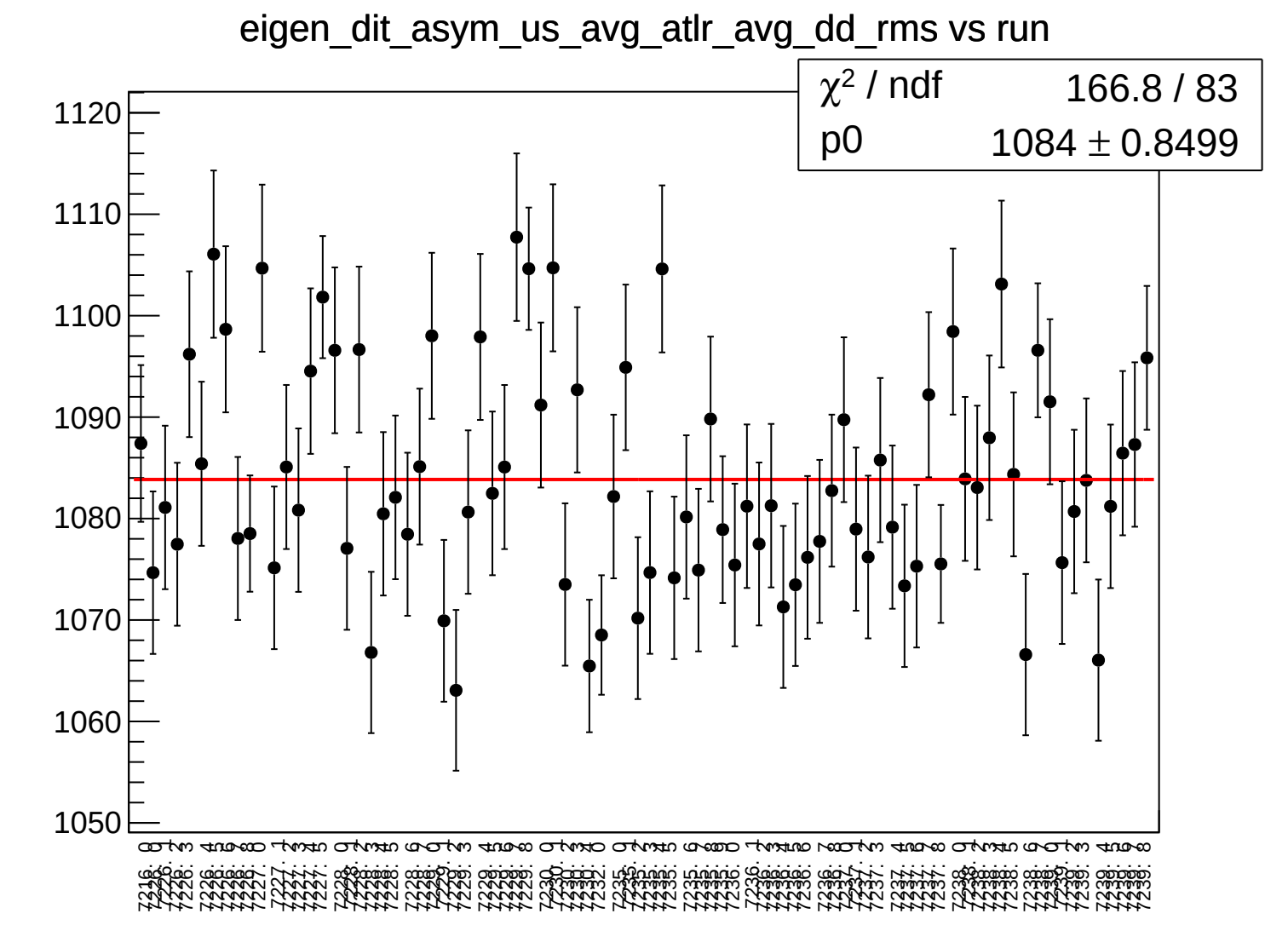

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 166.8 / 83
p0 1084 ± 0.8499
1120
1110
1100
1090
1080
1070
1060
1050

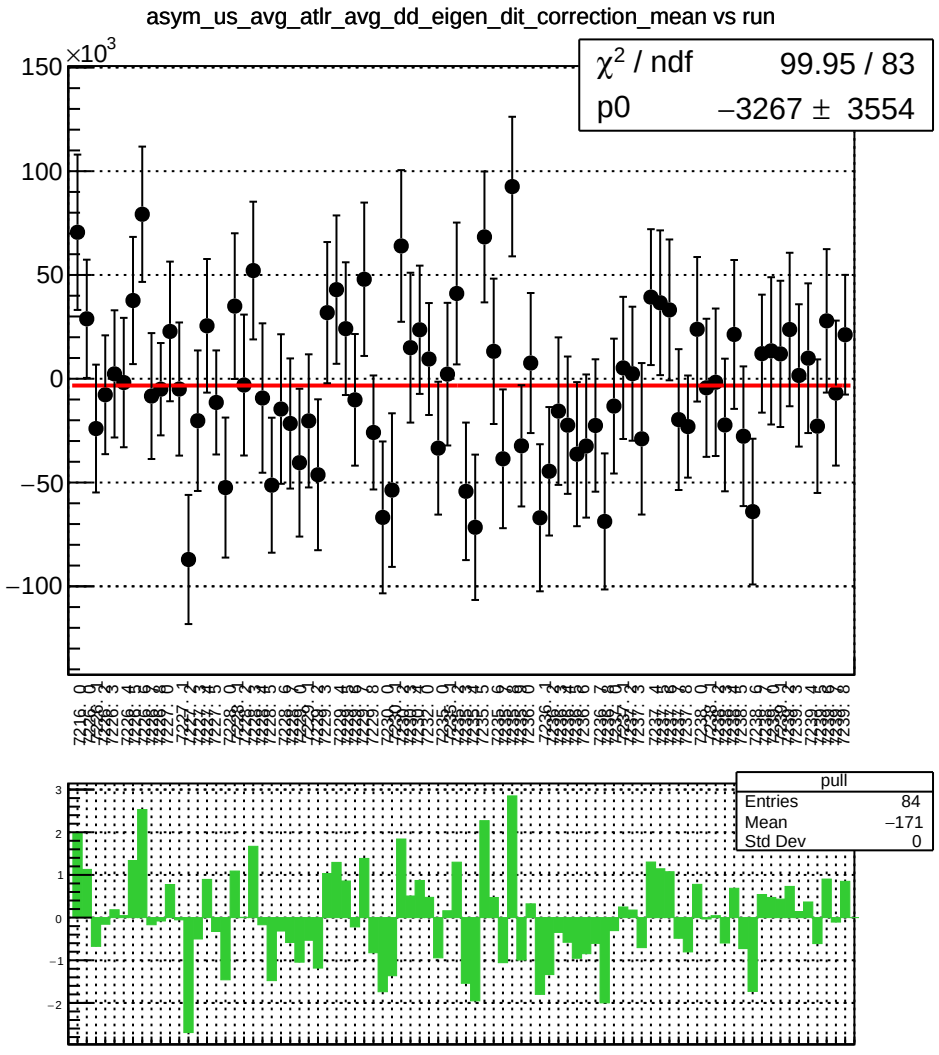

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
×10^3
150
100
50
0
−50
−100
χ² / ndf 99.95 / 83
p0 −3267 ± 3554
pull
Entries 84
Mean −171
Std Dev 0
3
2
1
0
−1
−2

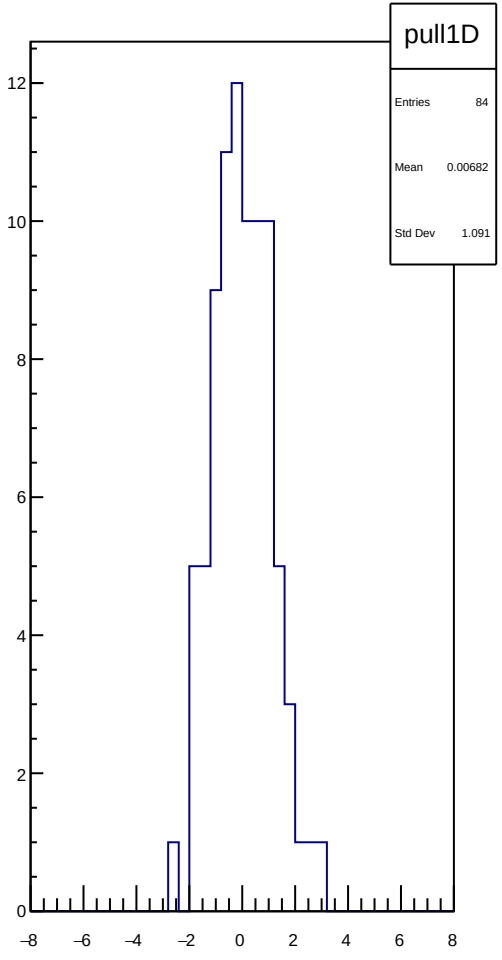

pull1D
Entries 84
Mean 0.00682
Std Dev 1.091
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

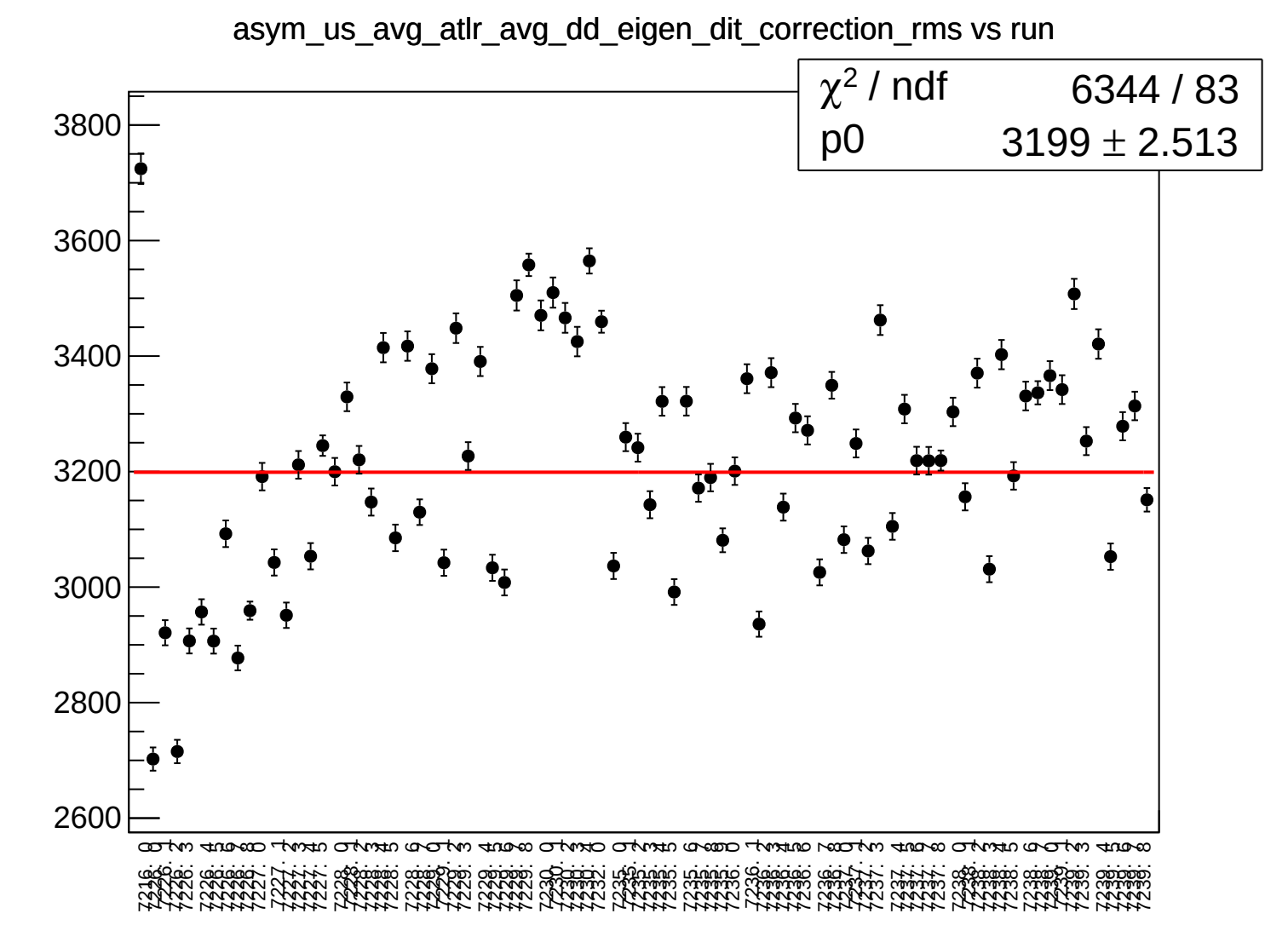

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ² / ndf 6344 / 83
p0 3199 ± 2.513
3800
3600
3400
3200
3000
2800
2600

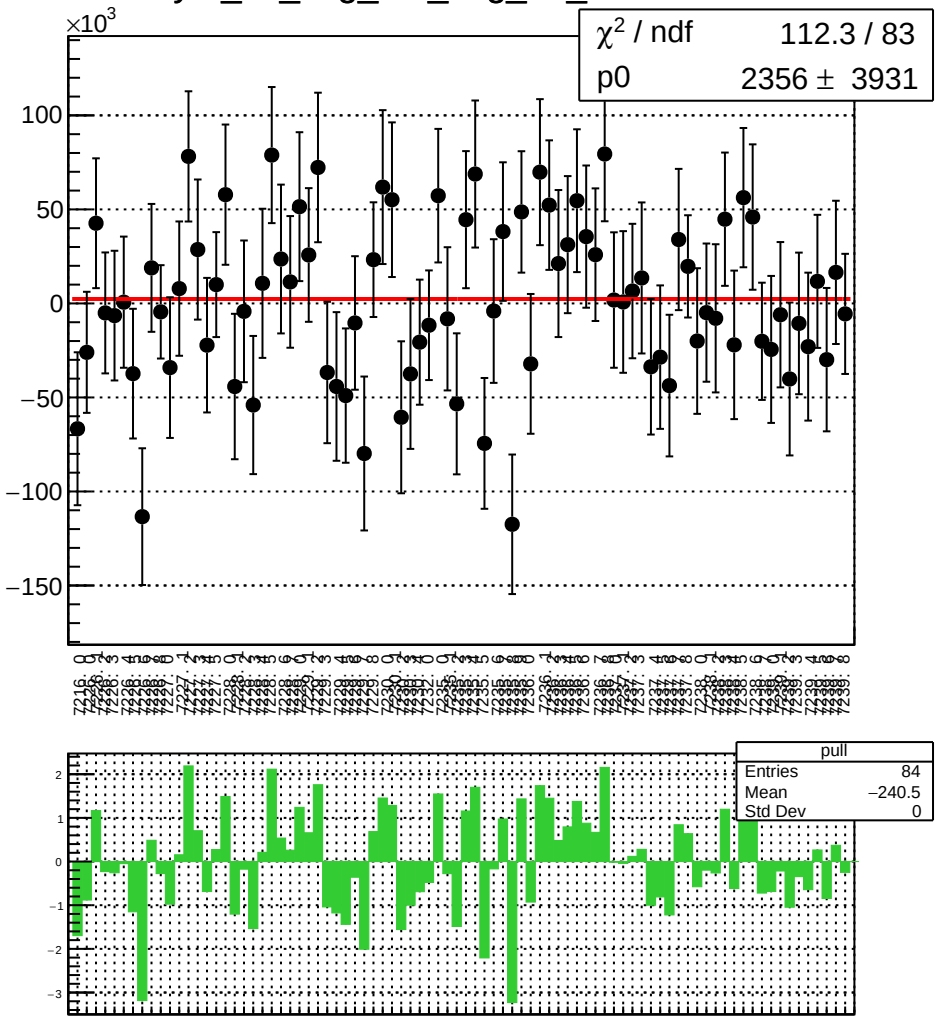

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 108 / 83
p0 −946.8 ± 1202
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 1003
Std Dev 0
pull1D
Entries 84
Mean 0.001179
Std Dev 1.134

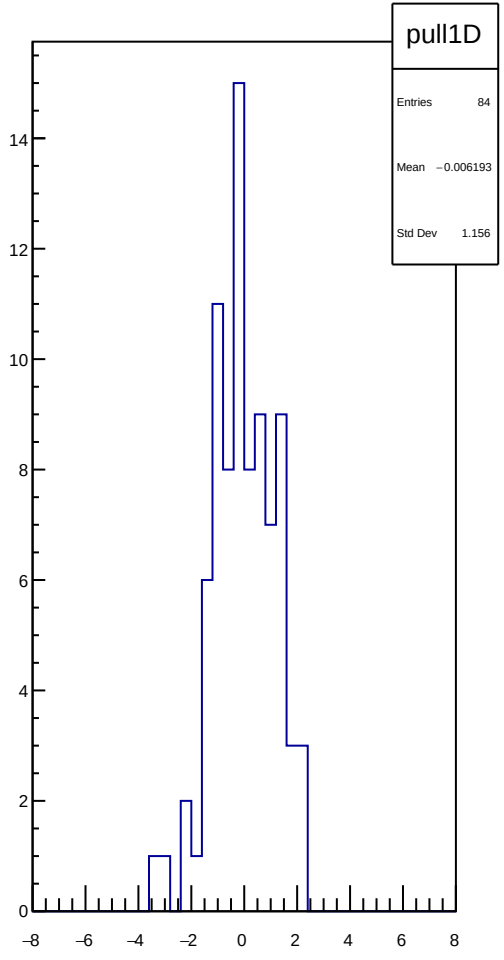

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 166.8 / 83
p0 1084 ± 0.8499
1120
1110
1100
1090
1080
1070
1060
1050

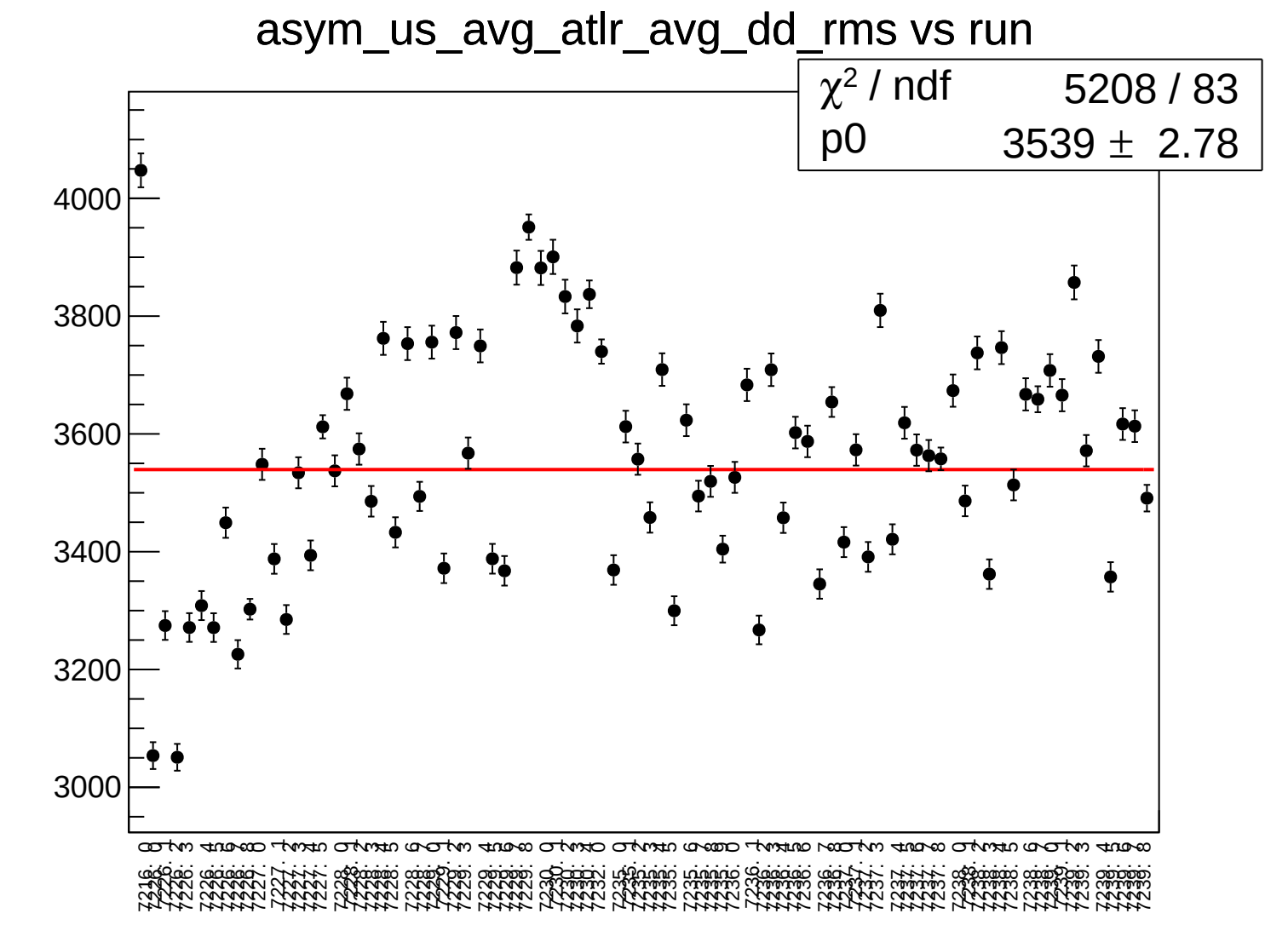

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 99.95 / 83
p0 −3267 ± 3554
pull
Entries 84
Mean −171
Std Dev 0

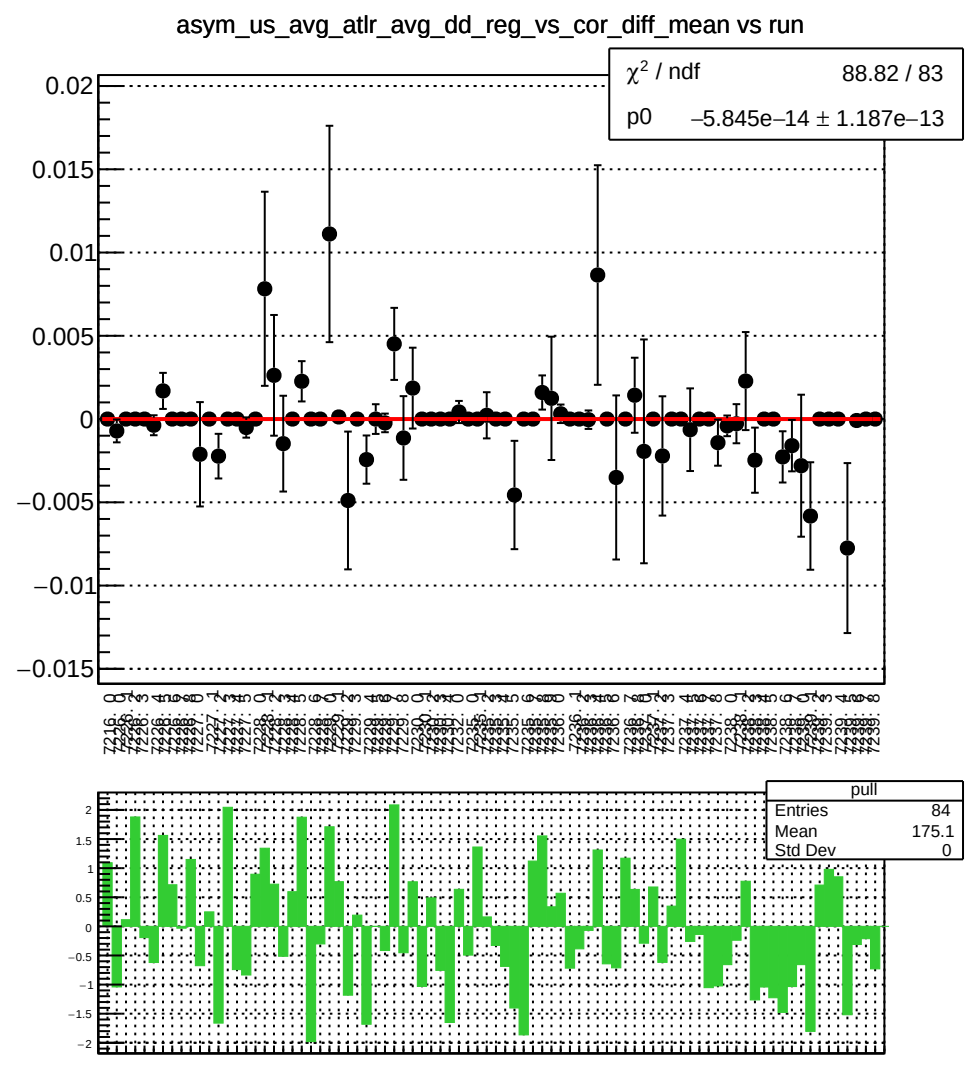

pull1D
Entries 84
Mean 0.00682
Std Dev 1.091

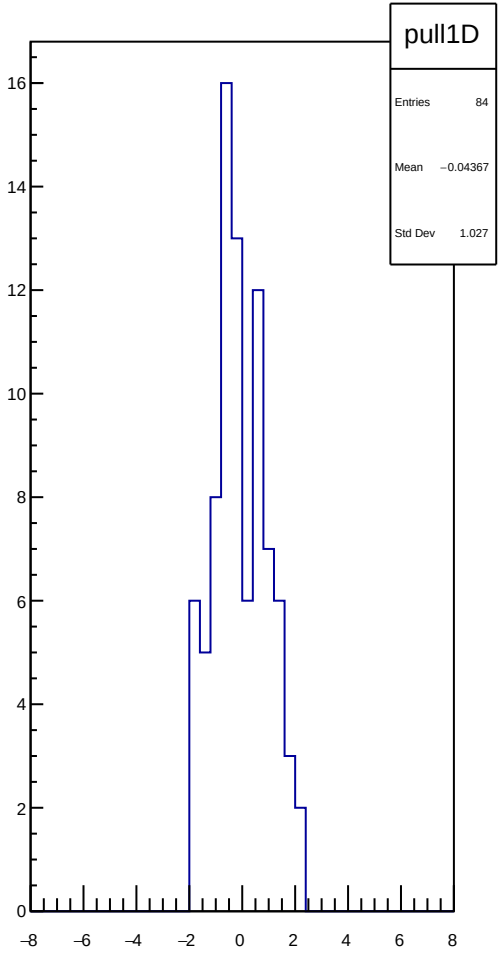

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 6344 / 83
p0 3199 ± 2.513
3800
3600
3400
3200
3000
2800
2600

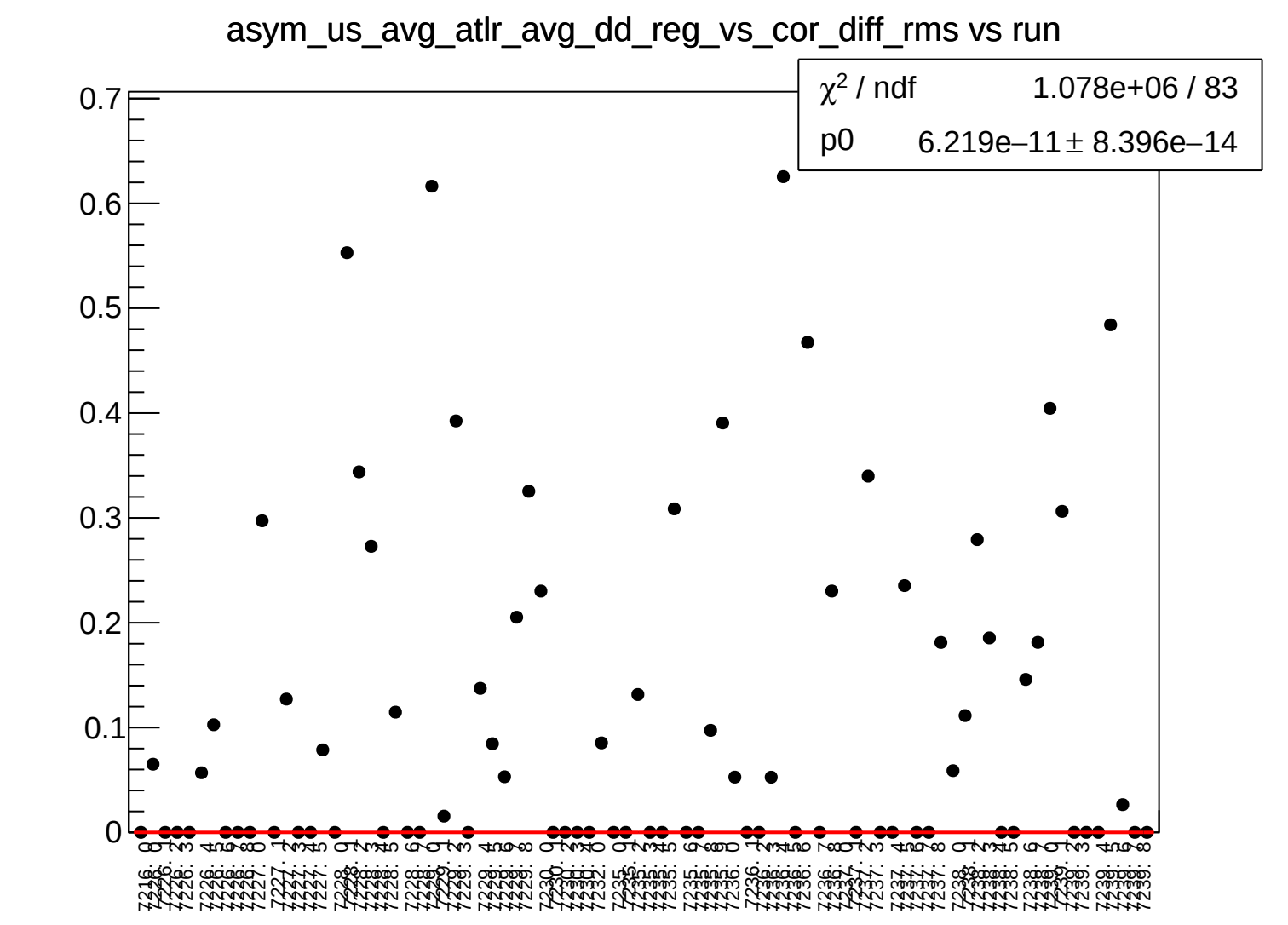

asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ² / ndf 112.3 / 83
p0 2356 ± 3931
100
50
0
−50
−100
−150
pull
Entries 84
Mean −240.5
Std Dev 0
2
1
0
−1
−2
−3

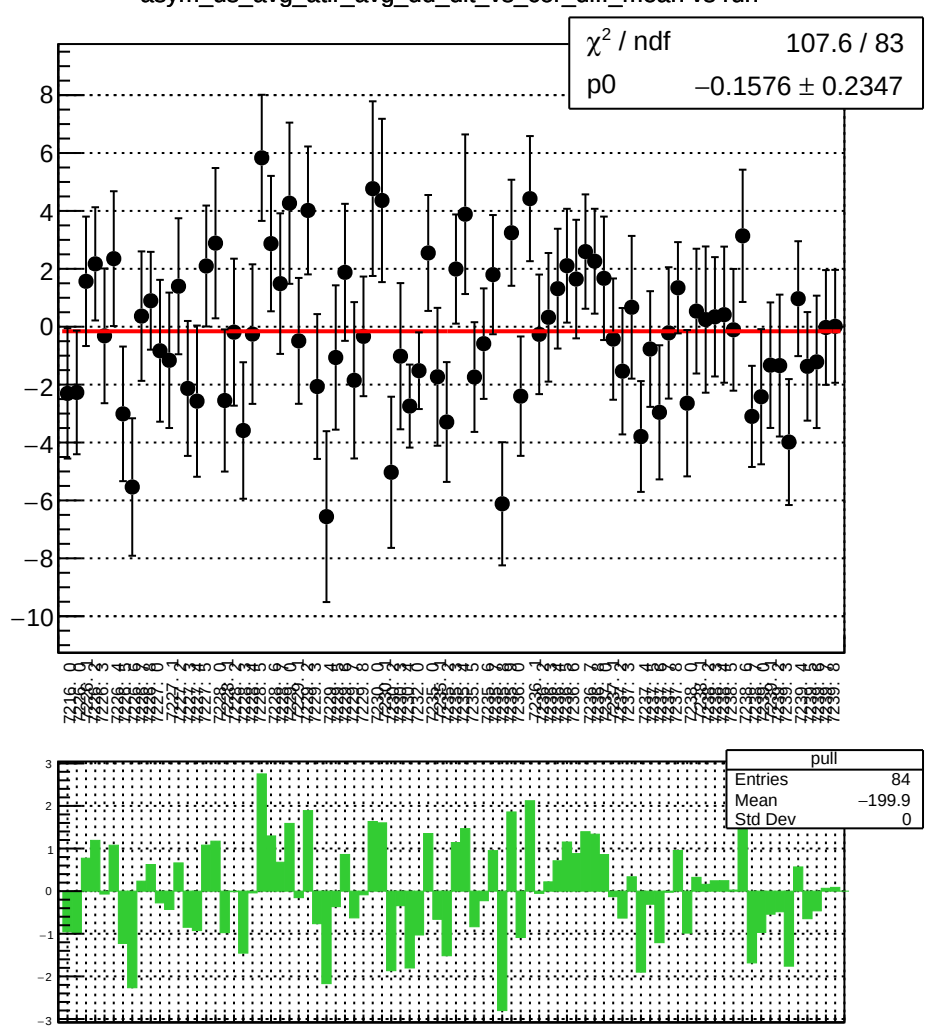

pull1D
Entries 84
Mean −0.006193
Std Dev 1.156
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

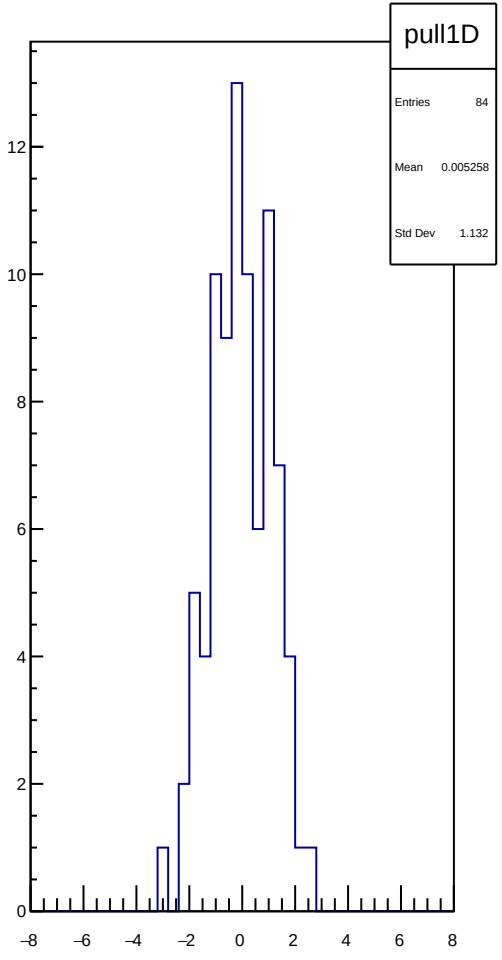

asym_us_avg_atlr_avg_dd_rms vs run
χ^2 / ndf 5208 / 83
p0 3539 ± 2.78
4000
3800
3600
3400
3200
3000

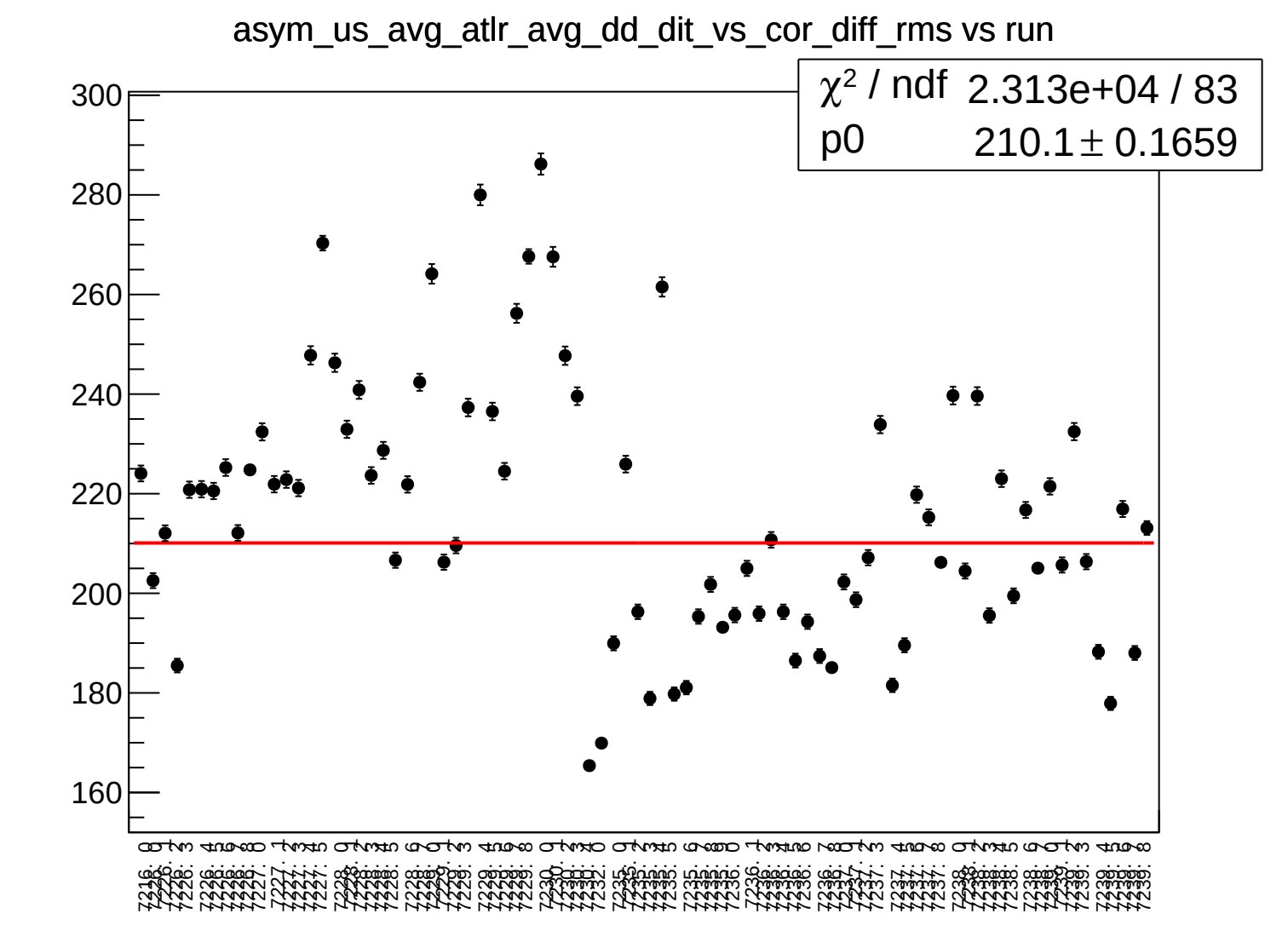

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 88.82 / 83
p0 −5.845e−14 ± 1.187e−13
pull
Entries 84
Mean 175.1
Std Dev 0

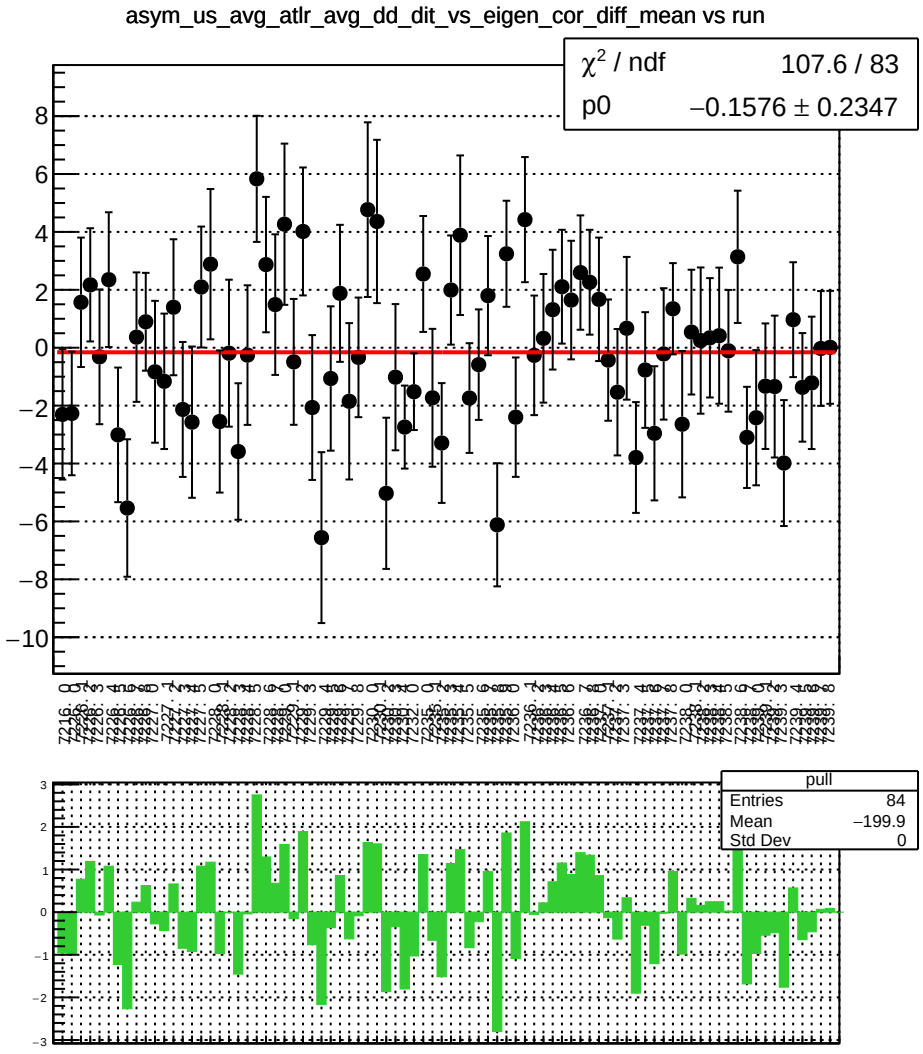

pull1D
Entries 84
Mean −0.04367
Std Dev 1.027

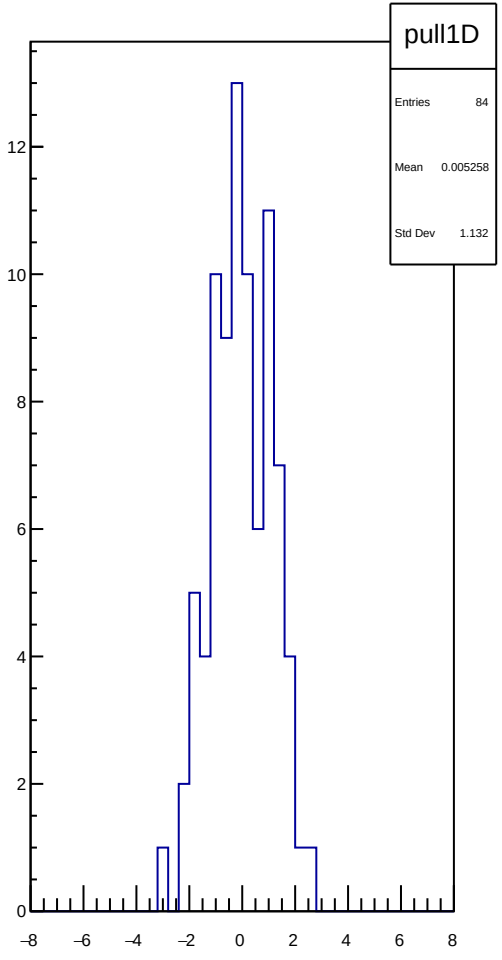

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.078e+06 / 83
p0 6.219e−11 ± 8.396e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

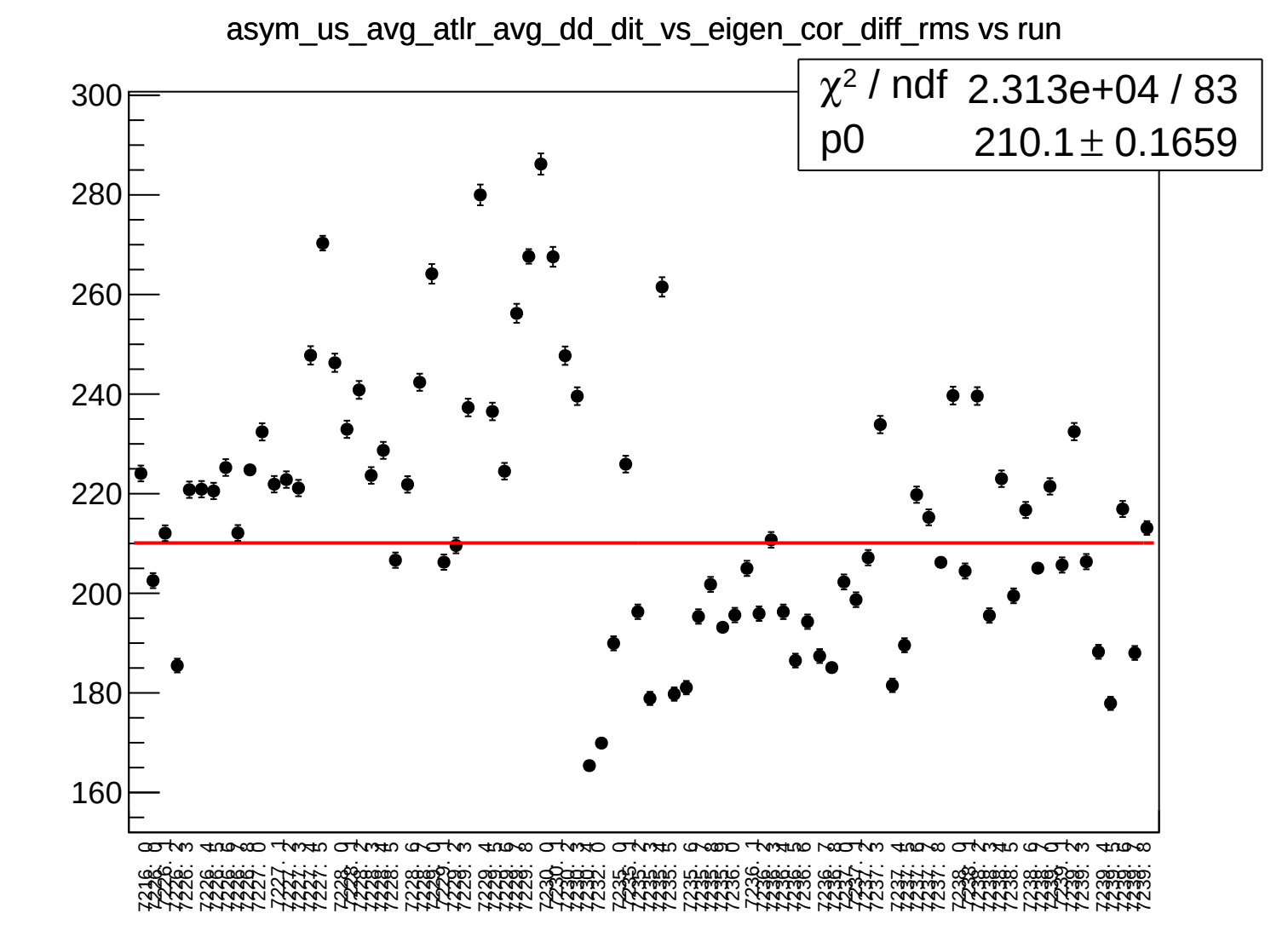

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 107.6 / 83
p0 −0.1576 ± 0.2347
pull
Entries 84
Mean −199.9
Std Dev 0

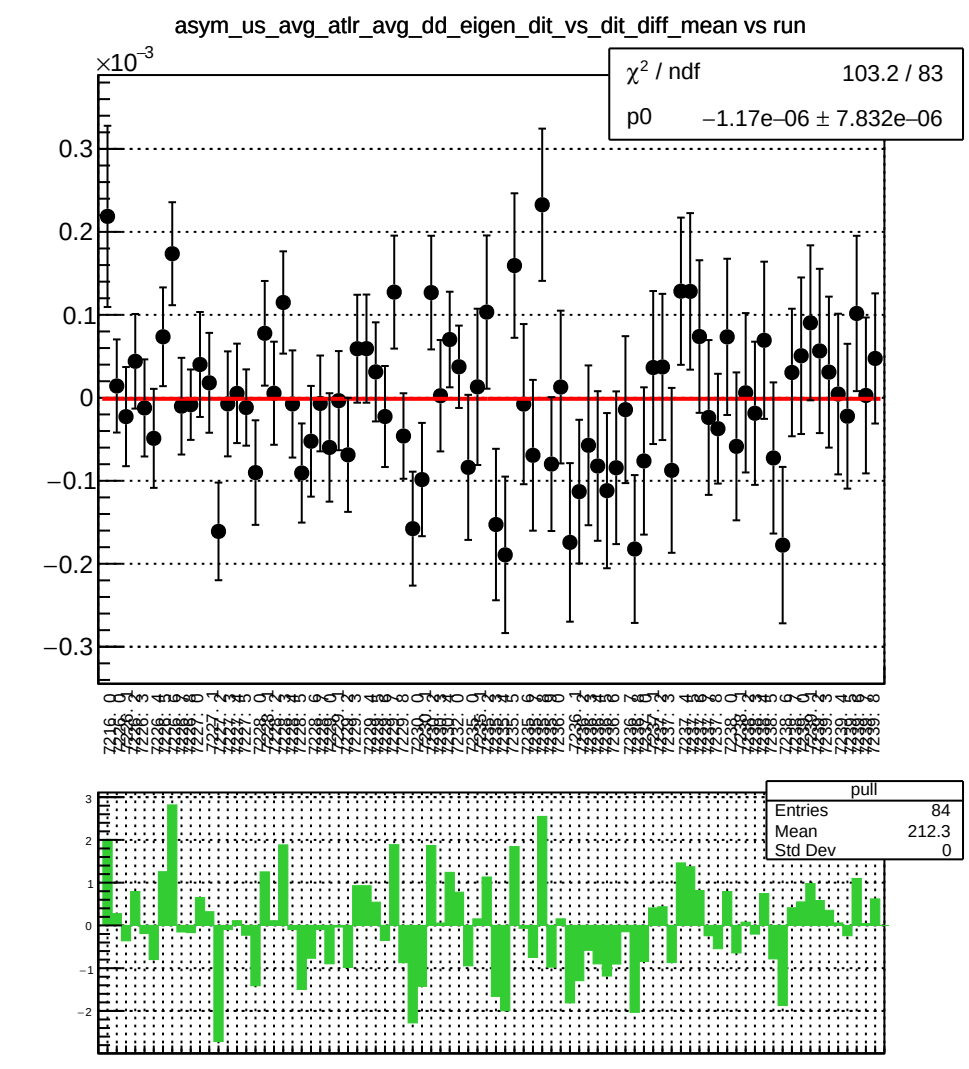

pull1D
Entries 84
Mean 0.005258
Std Dev 1.132

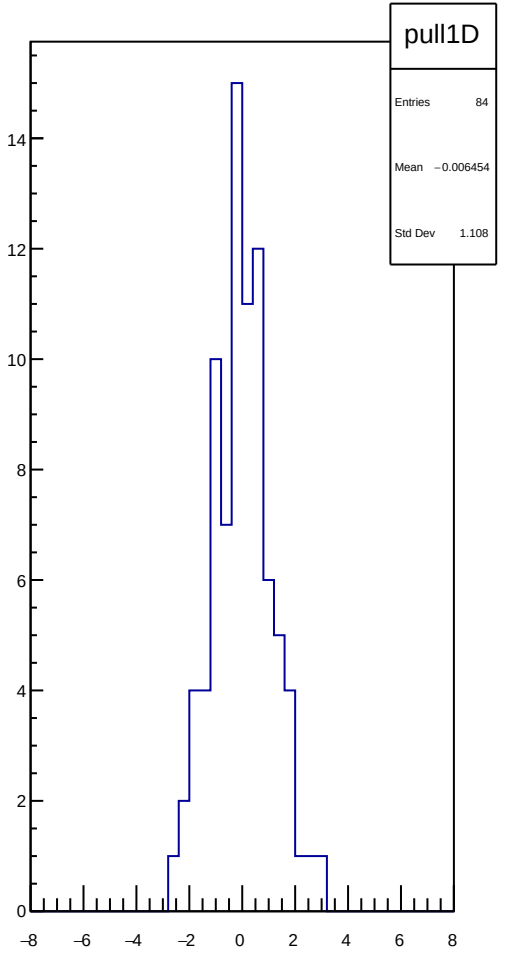

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.313e+04 / 83
p0 210.1 ± 0.1659
300
280
260
240
220
200
180
160

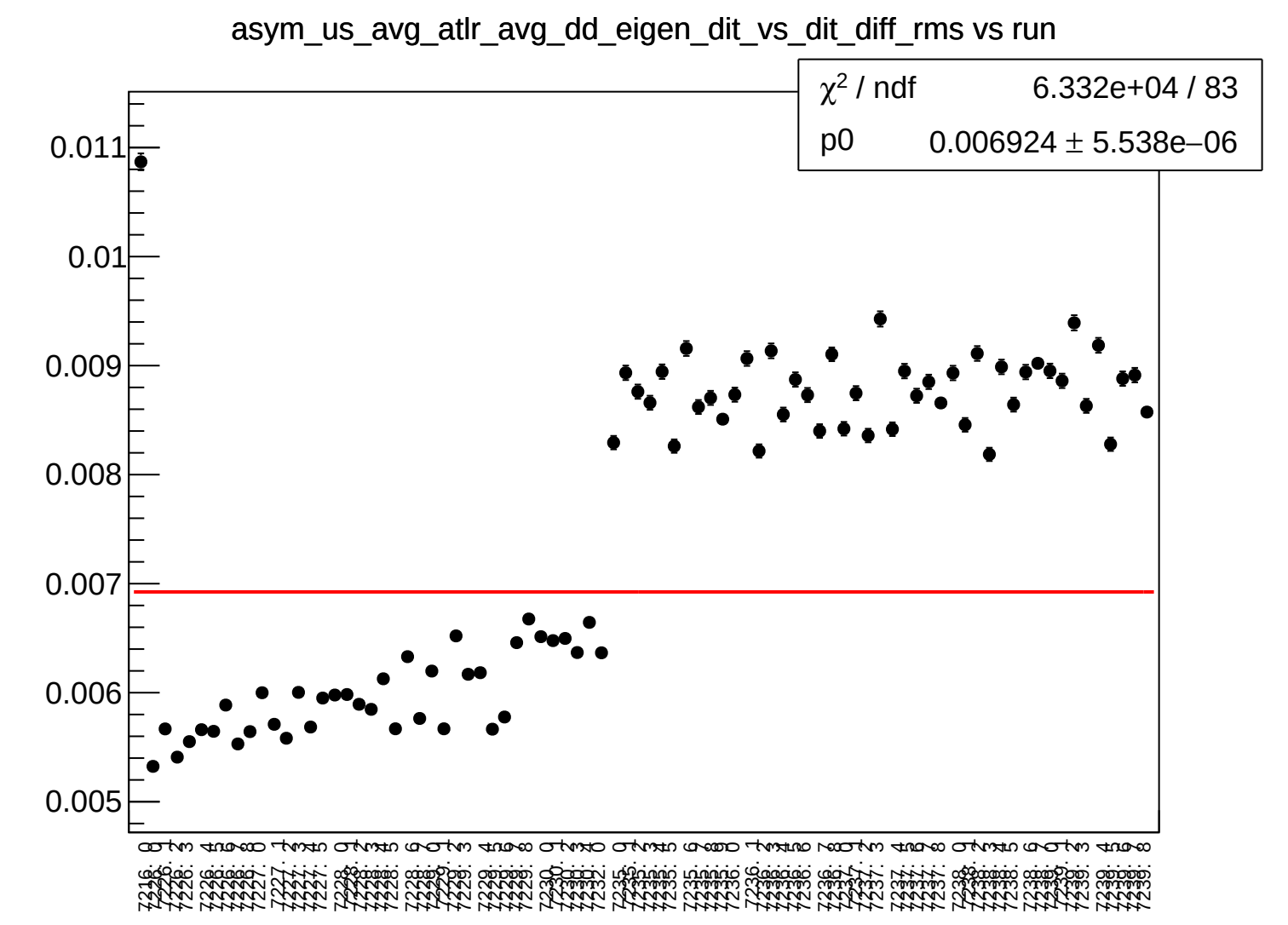

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.6 / 83
p0 −0.1576 ± 0.2347
pull
Entries 84
Mean −199.9
Std Dev 0

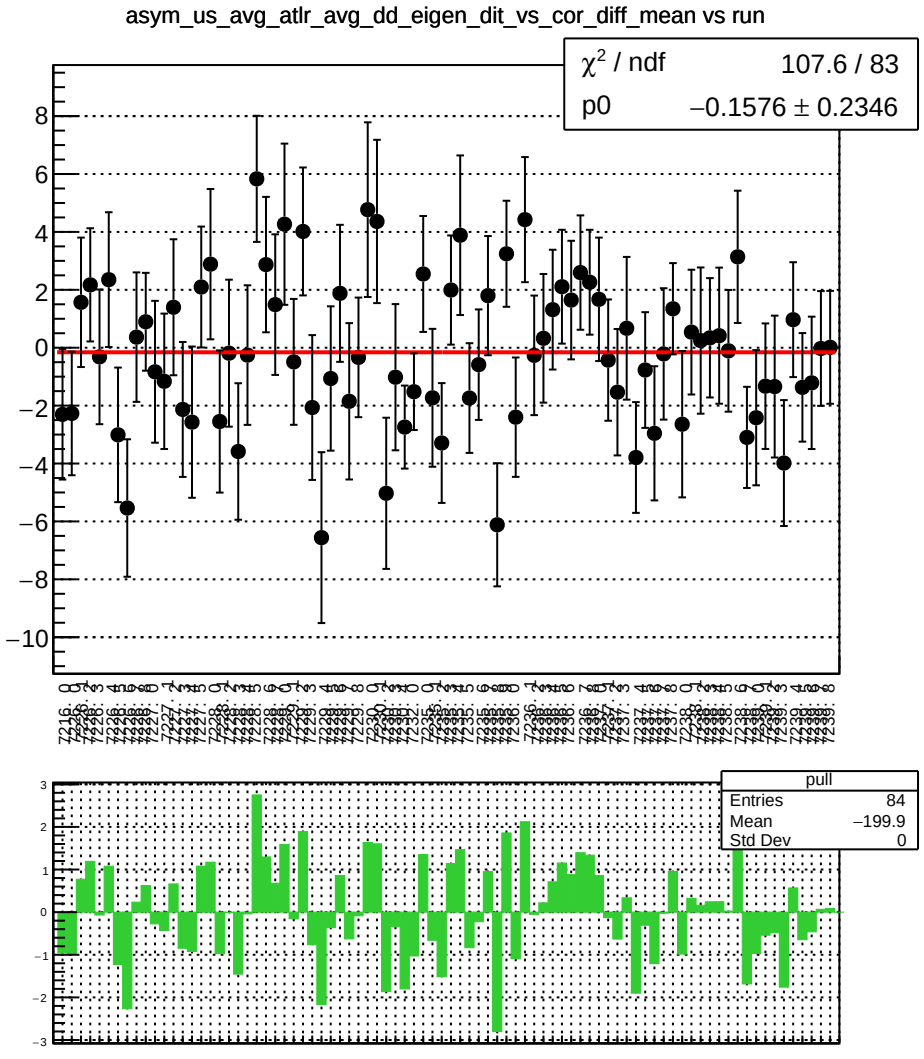

pull1D
Entries 84
Mean 0.005258
Std Dev 1.132

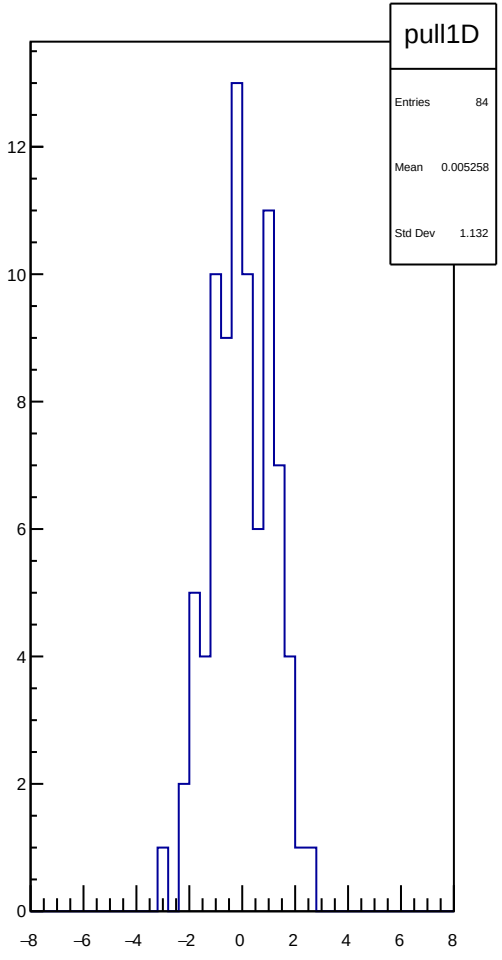

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.313e+04 / 83
p0 210.1 ± 0.1659
300
280
260
240
220
200
180
160

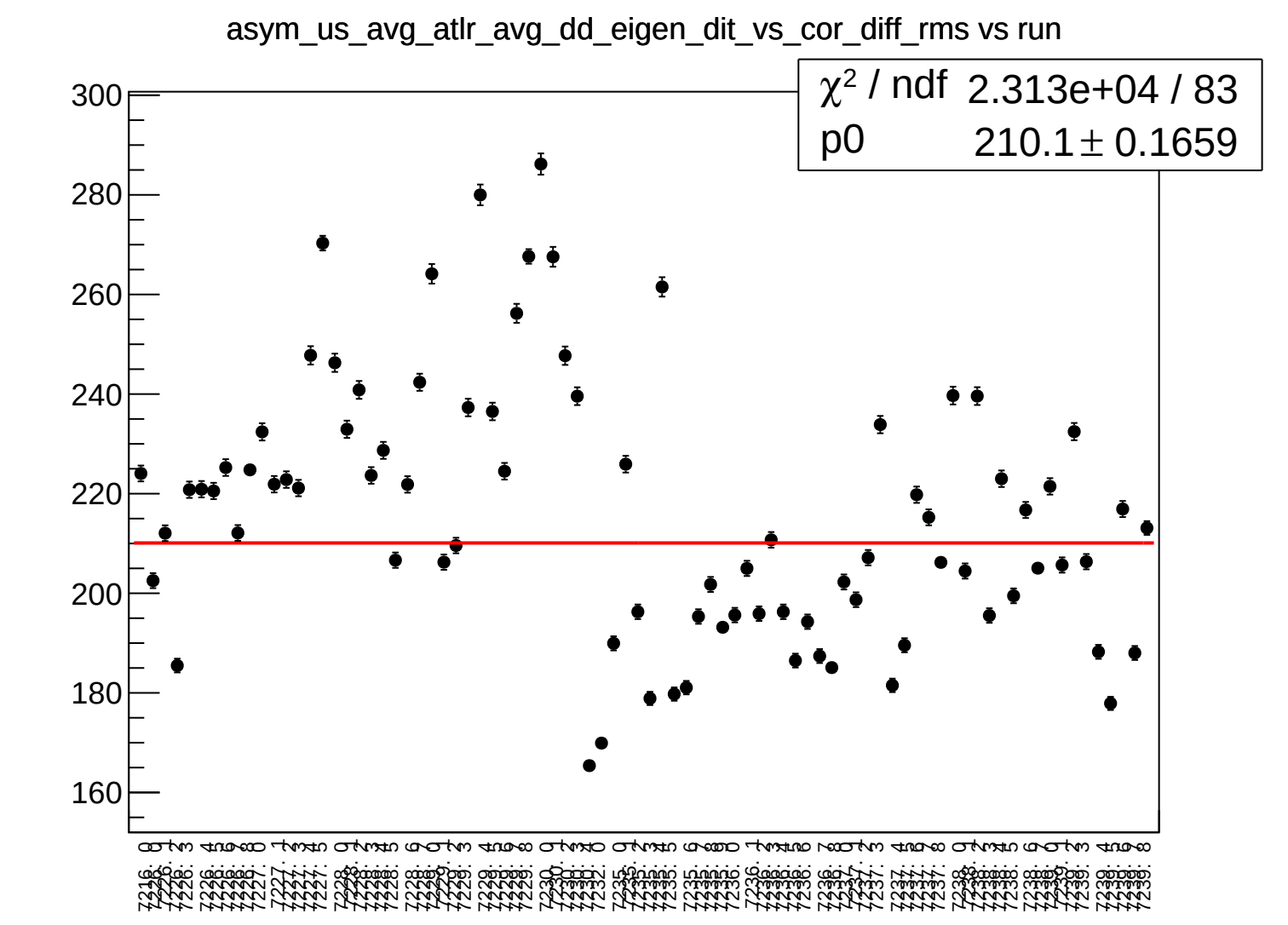

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103.2 / 83
p0 −1.17e−06 ± 7.832e−06
pull
Entries 84
Mean 212.3
Std Dev 0

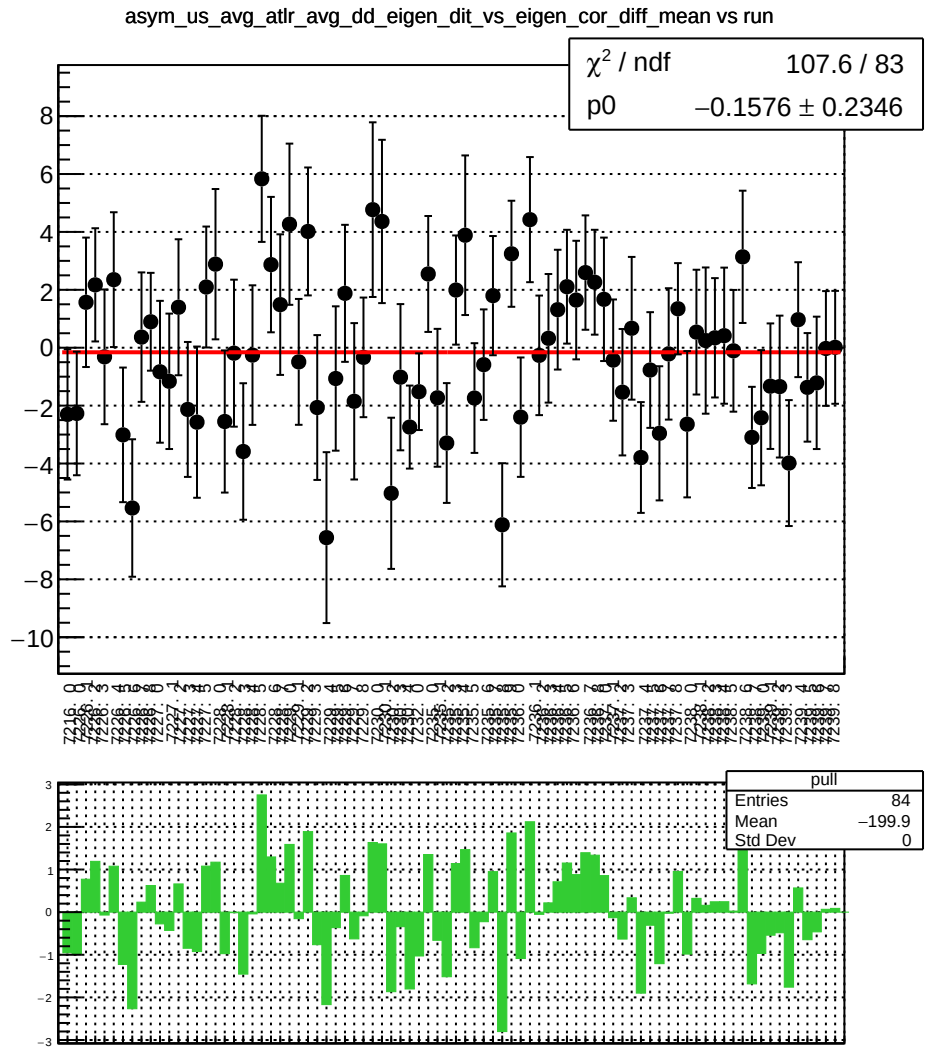

pull1D
Entries 84
Mean −0.006454
Std Dev 1.108

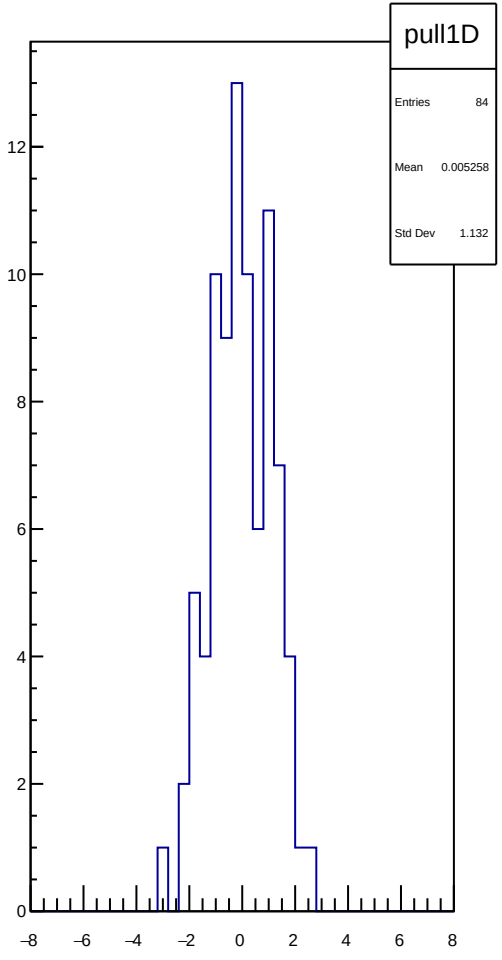

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.332e+04 / 83
p0 0.006924 ± 5.538e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005

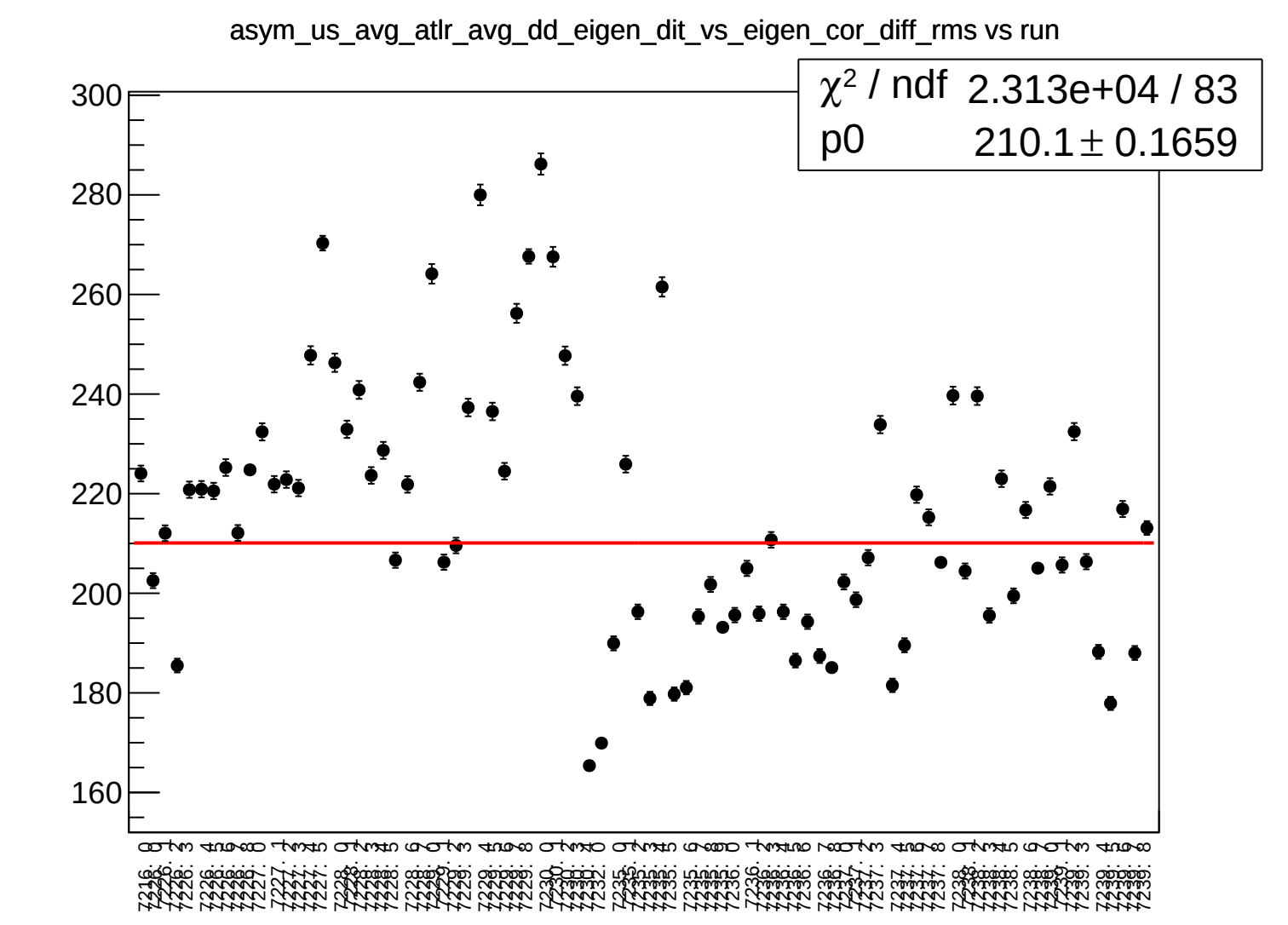

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 107.6 / 83
p0 −0.1576 ± 0.2346
pull
Entries 84
Mean −199.9
Std Dev 0

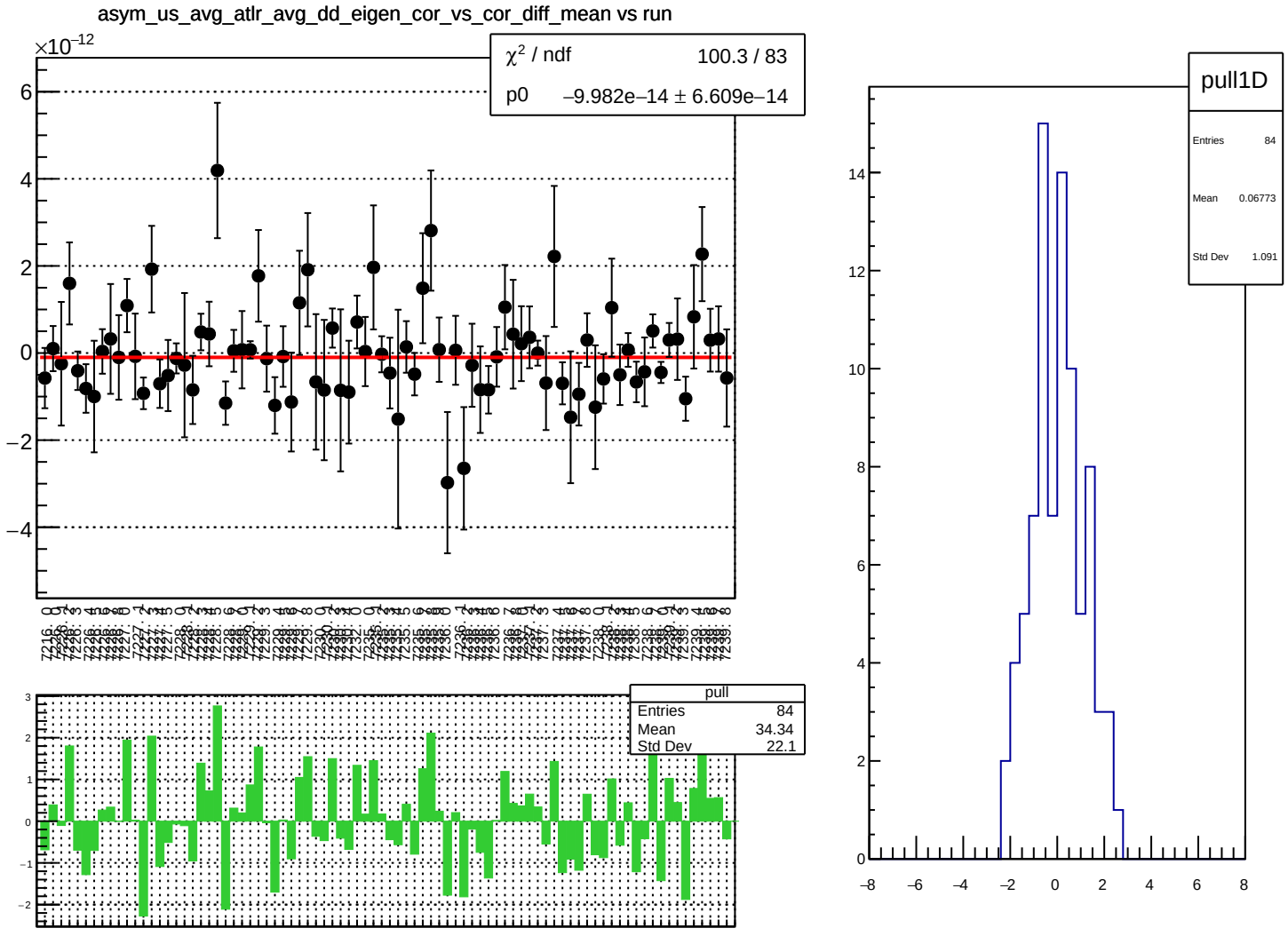

pull1D
Entries 84
Mean 0.005258
Std Dev 1.132

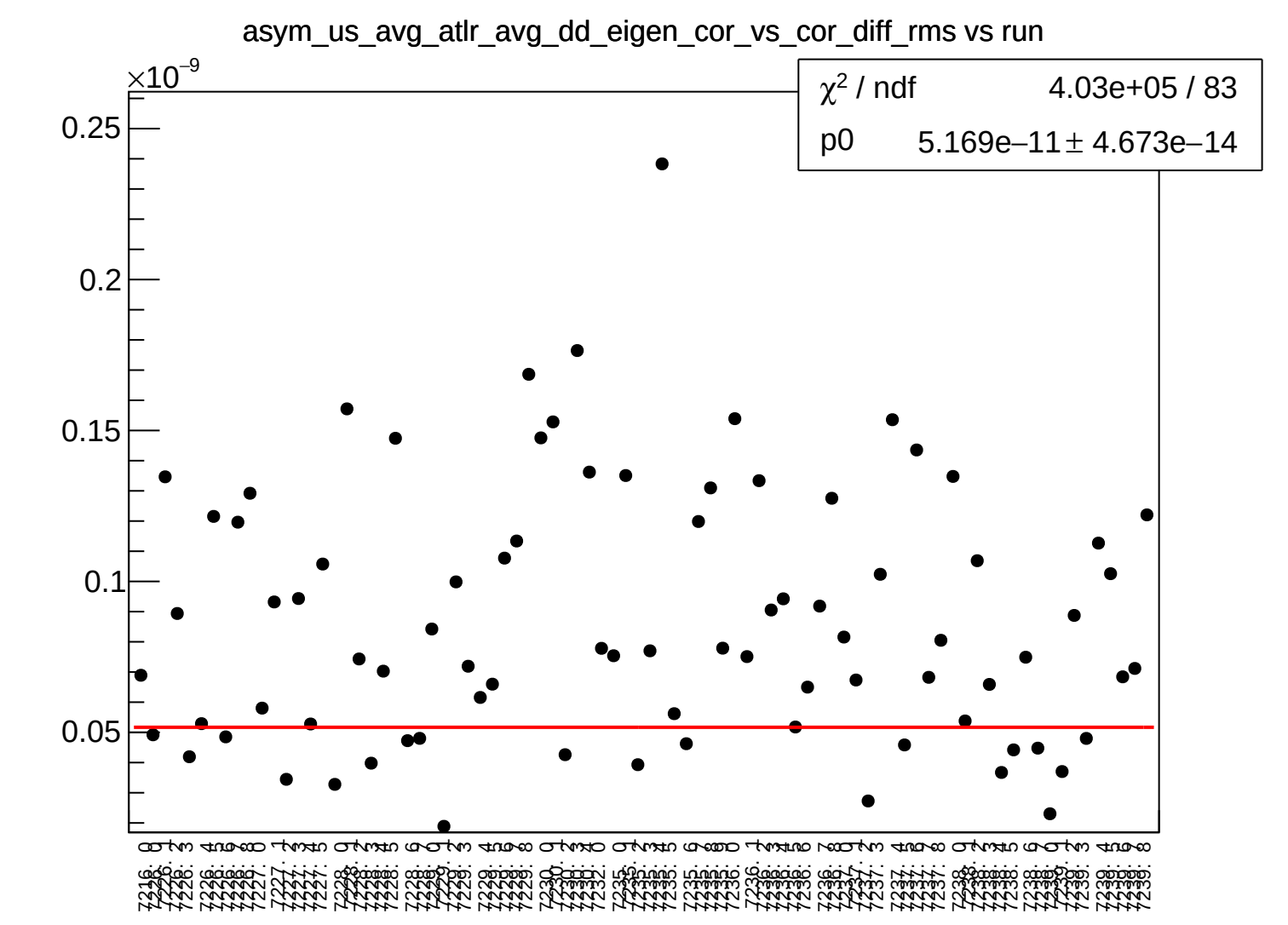

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.313e+04 / 83
p0 210.1 ± 0.1659
300
280
260
240
220
200
180
160

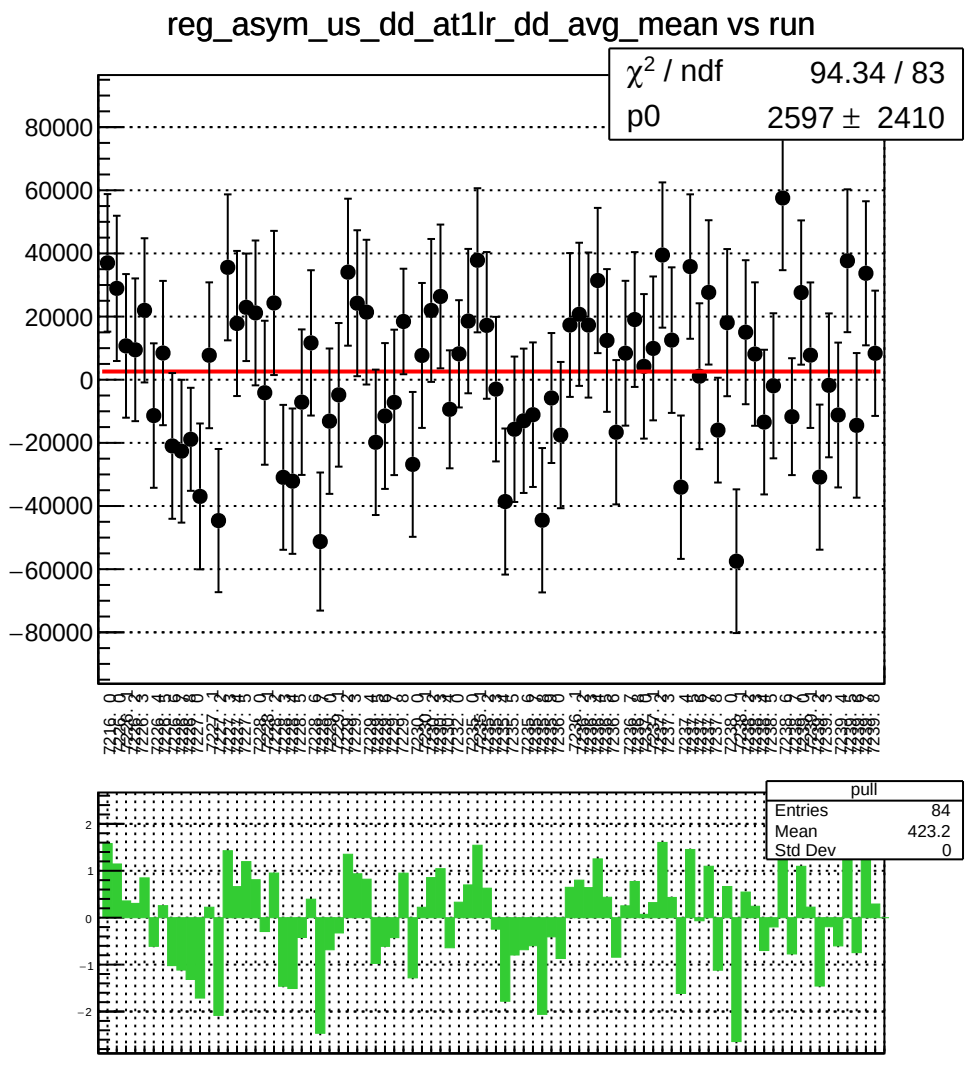

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.6 / 83
p0 −0.1576 ± 0.2346
pull
Entries 84
Mean −199.9
Std Dev 0

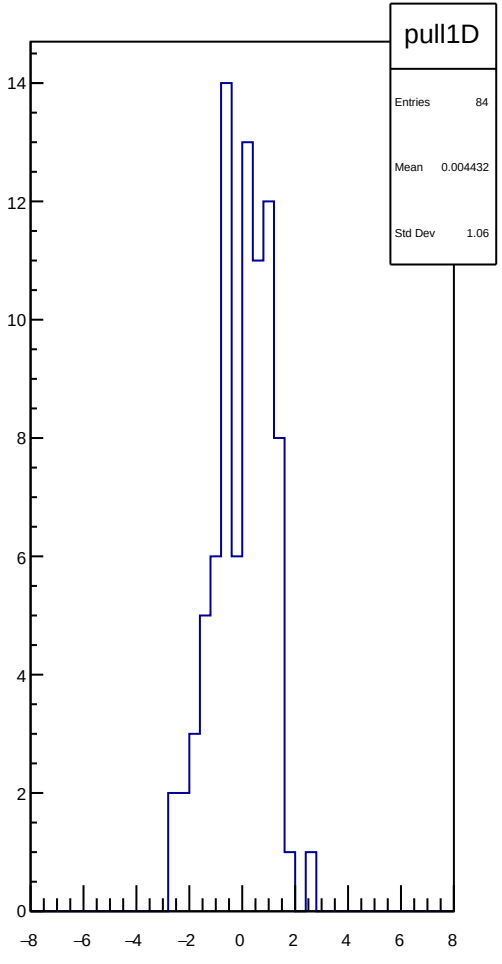

pull1D
Entries 84
Mean 0.005258
Std Dev 1.132

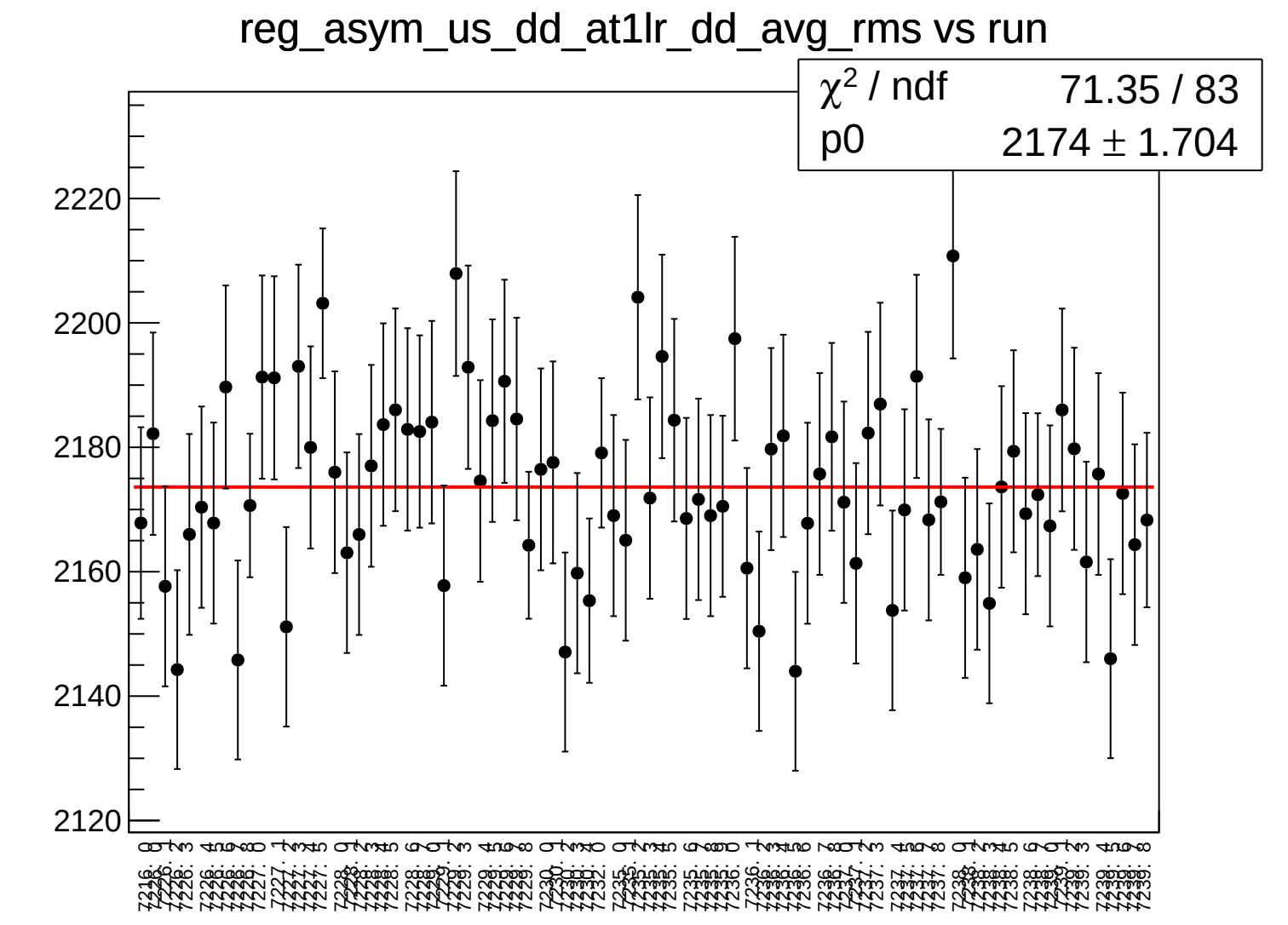

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.313e+04 / 83
p0 210.1 ± 0.1659
300
280
260
240
220
200
180
160

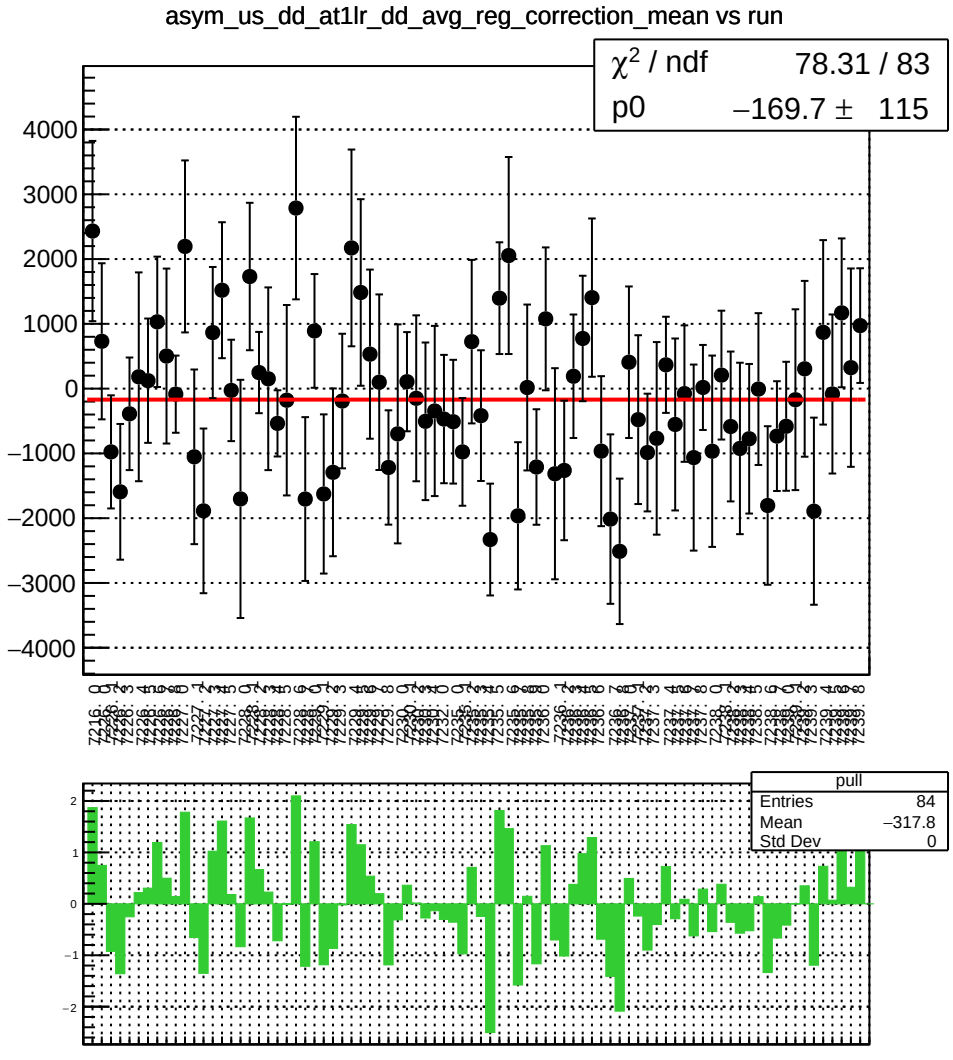

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 100.3 / 83
p0 −9.982e−14 ± 6.609e−14
pull
Entries 84
Mean 34.34
Std Dev 22.1
pull1D
Entries 84
Mean 0.06773
Std Dev 1.091

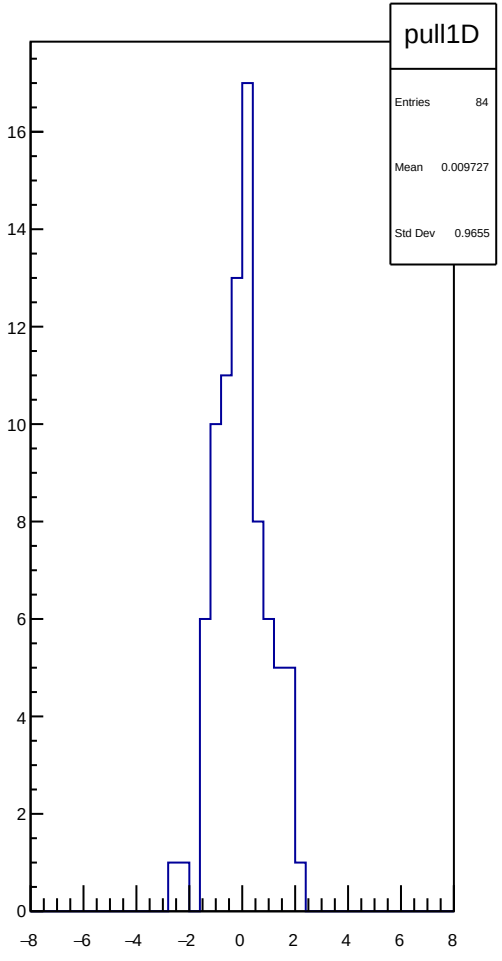

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.03e+05 / 83
p0 5.169e−11 ± 4.673e−14
0.25
0.2
0.15
0.1
0.05

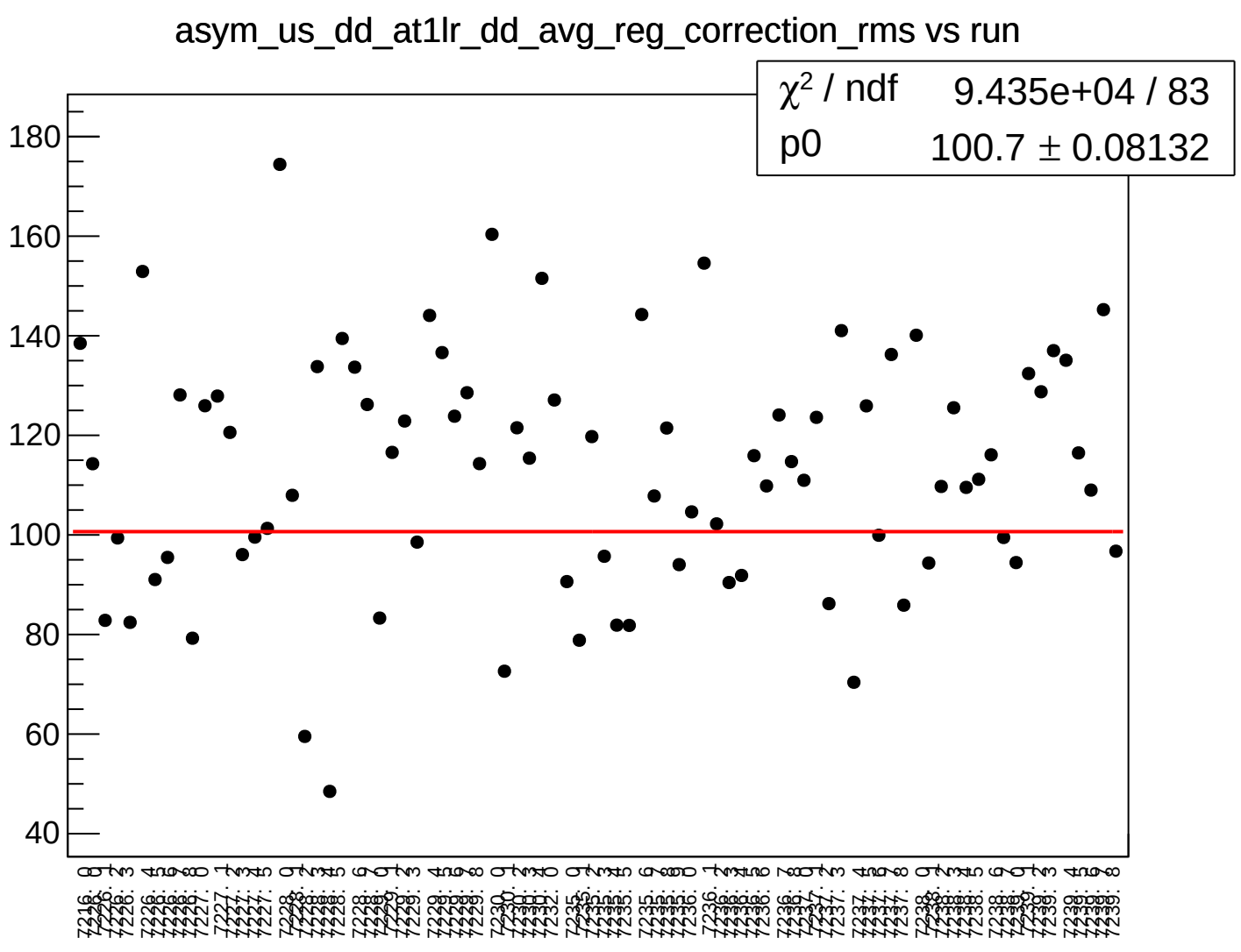

reg_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 94.34 / 83
p0 2597 ± 2410
pull
Entries 84
Mean 423.2
Std Dev 0

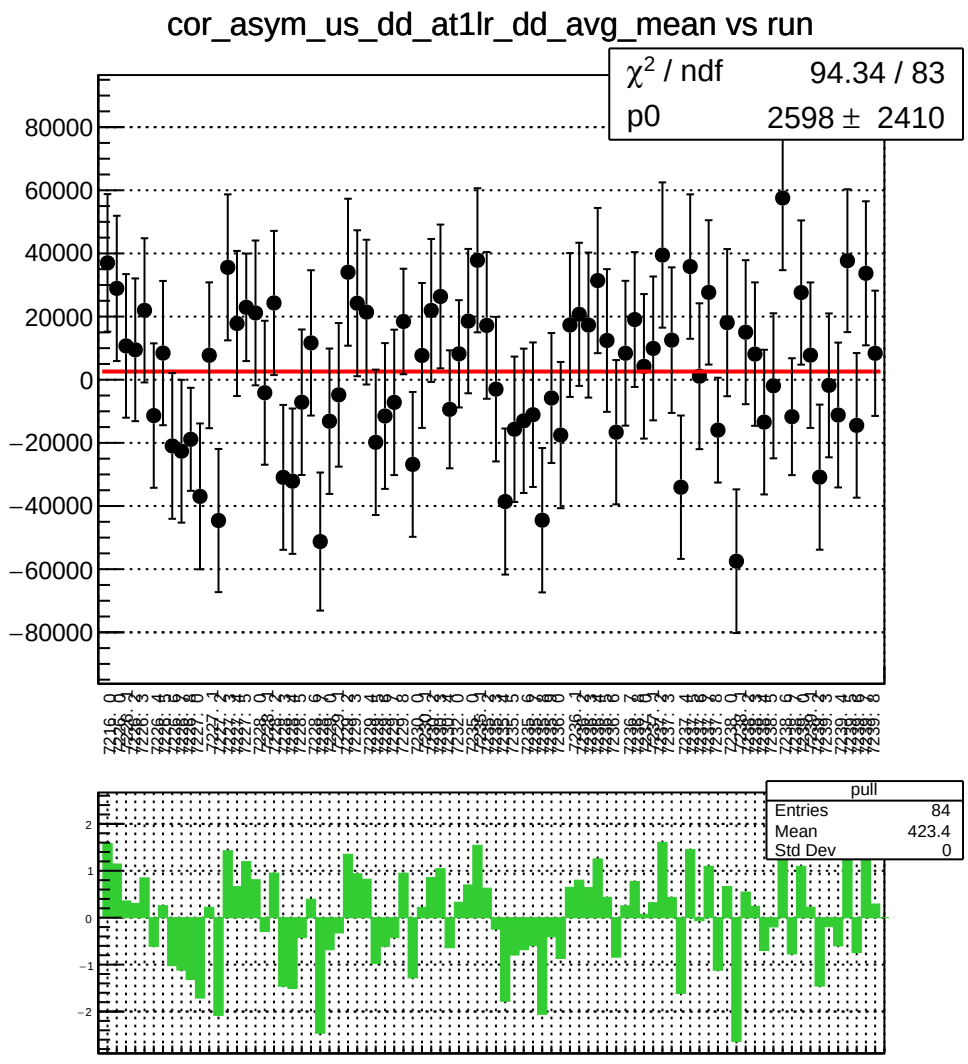

pull1D
Entries 84
Mean 0.004432
Std Dev 1.06

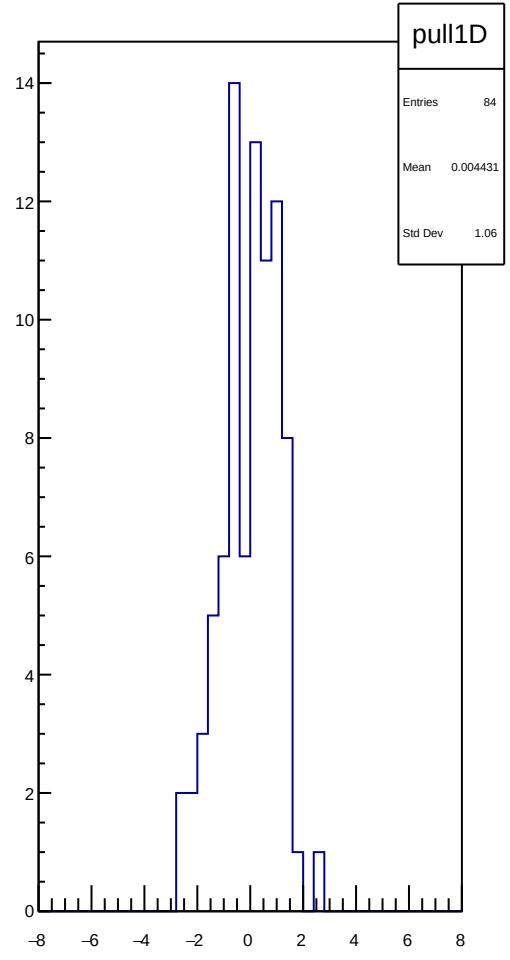

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 71.35 / 83
p0 2174 ± 1.704
2220
2200
2180
2160
2140
2120

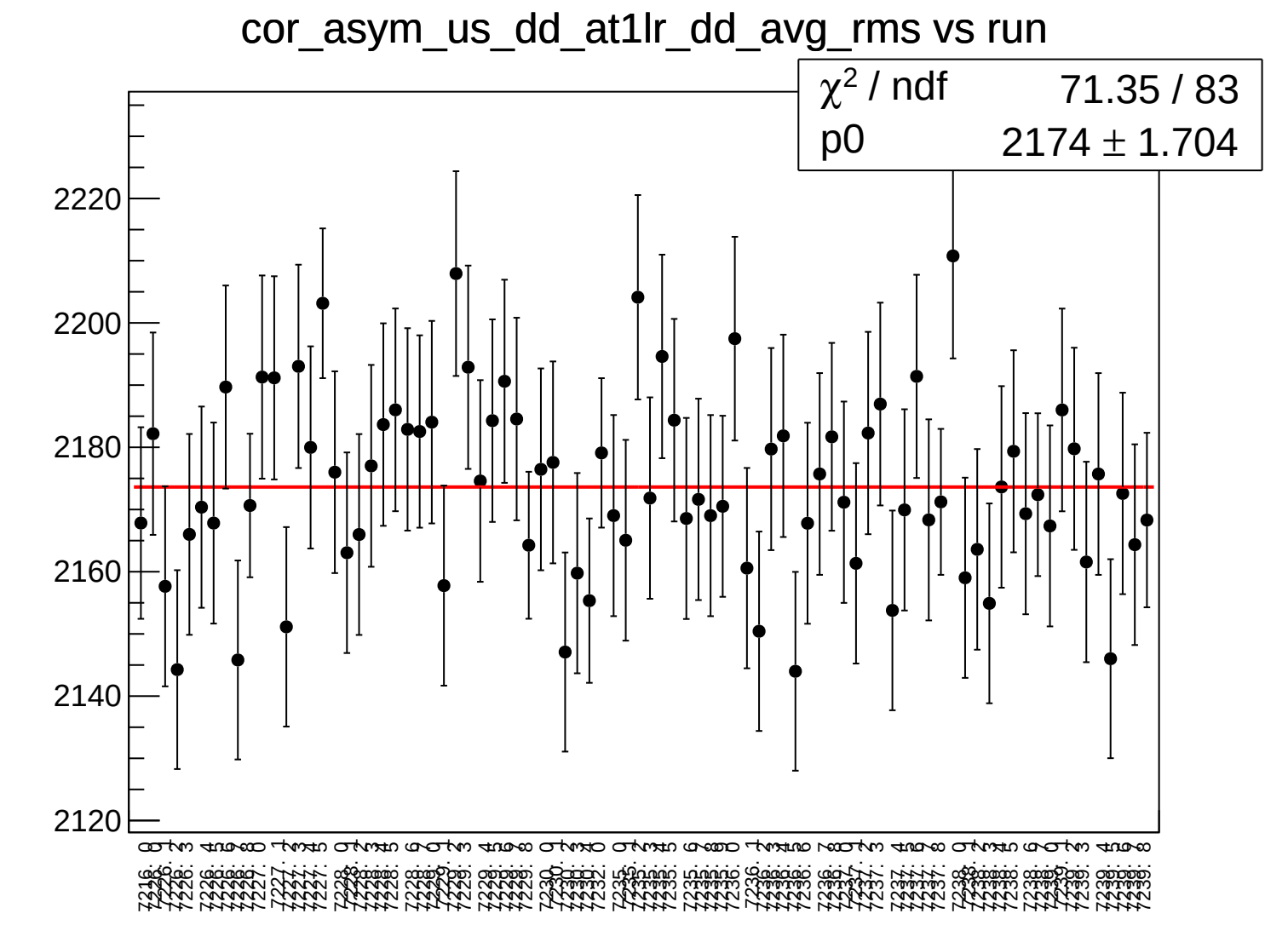

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 78.31 / 83
p0 −169.7 ± 115
pull
Entries 84
Mean −317.8
Std Dev 0

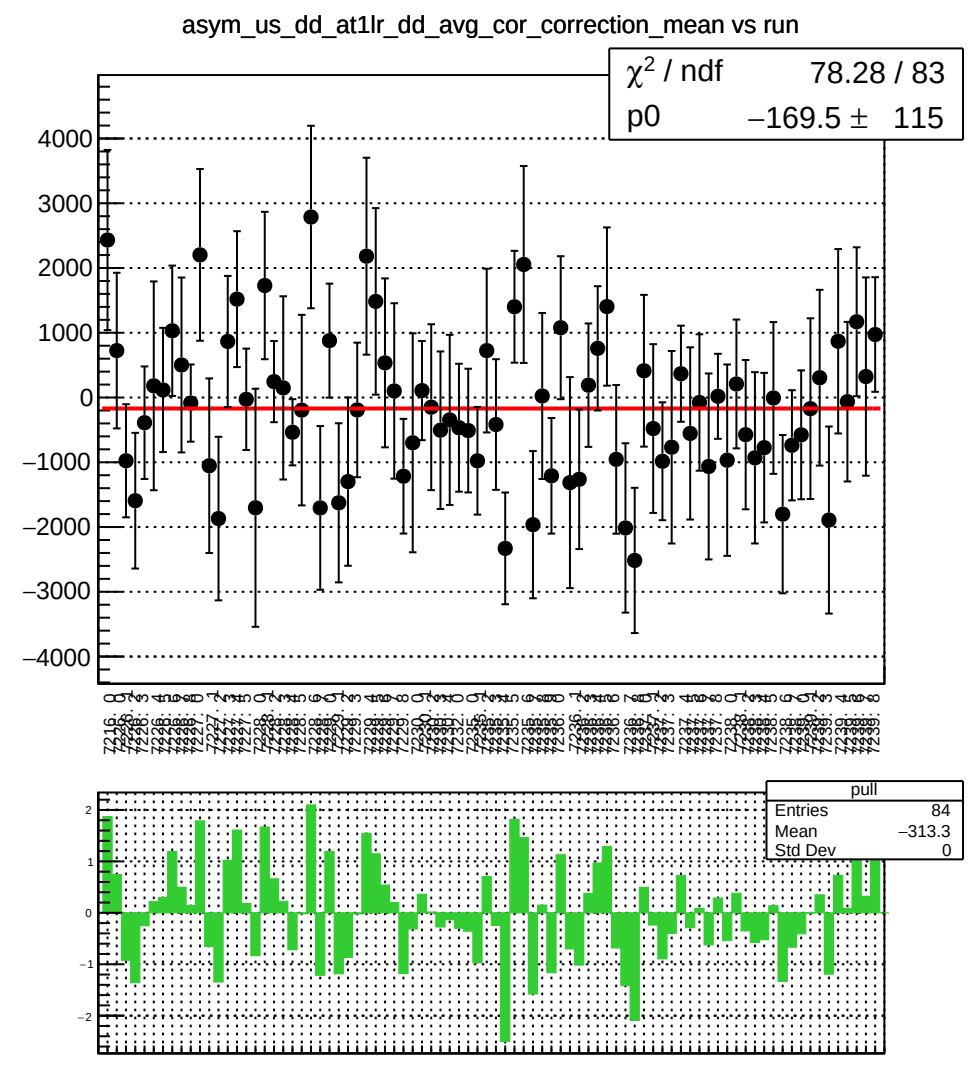

pull1D
Entries 84
Mean 0.009727
Std Dev 0.9655

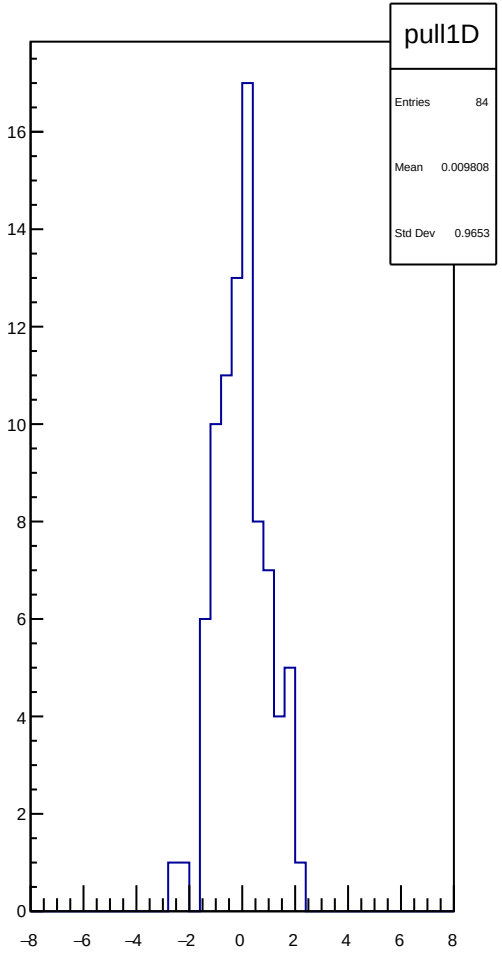

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 9.435e+04 / 83
p0 100.7 ± 0.08132
180
160
140
120
100
80
60
40

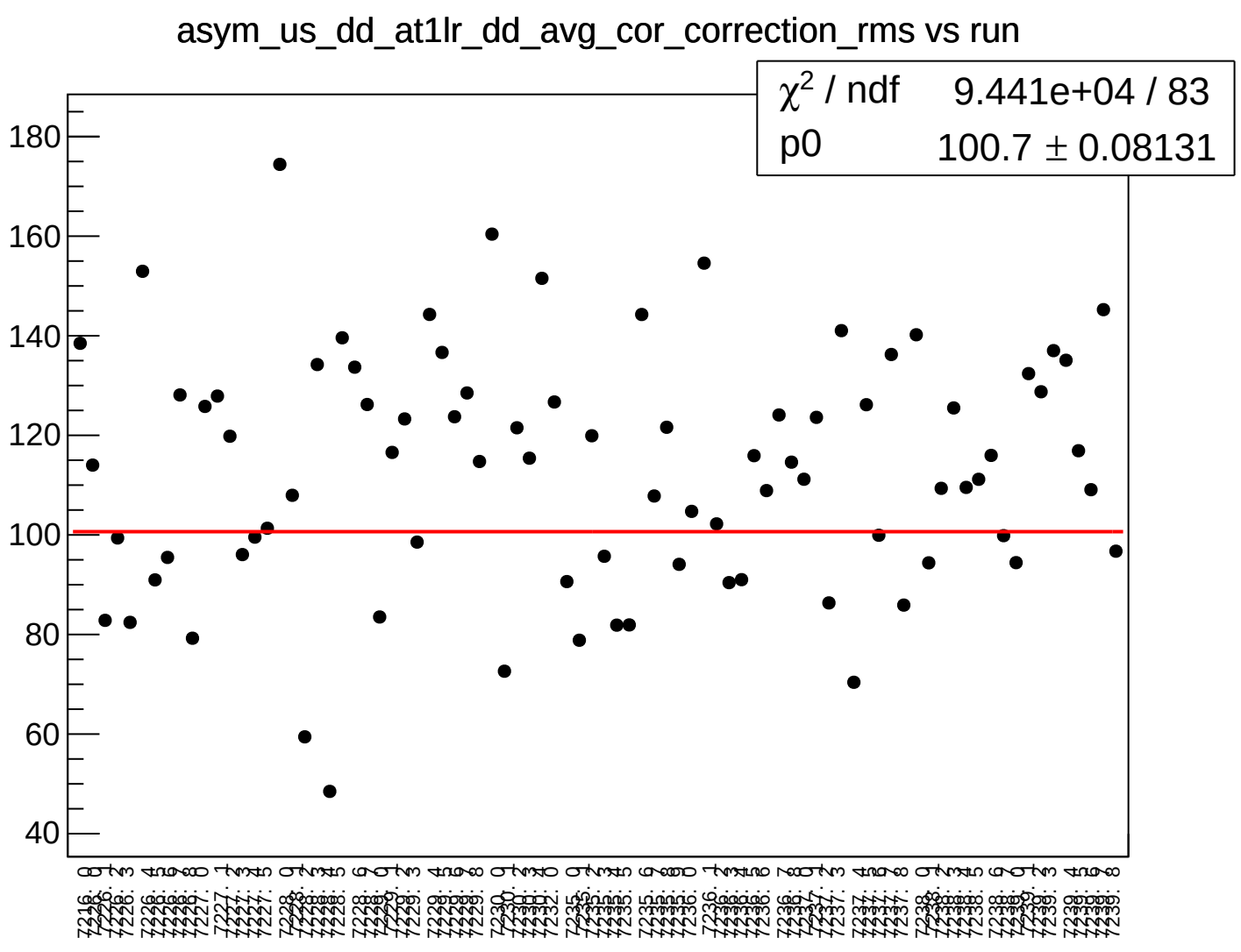

cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 94.34 / 83
p0 2598 ± 2410
pull
Entries 84
Mean 423.4
Std Dev 0

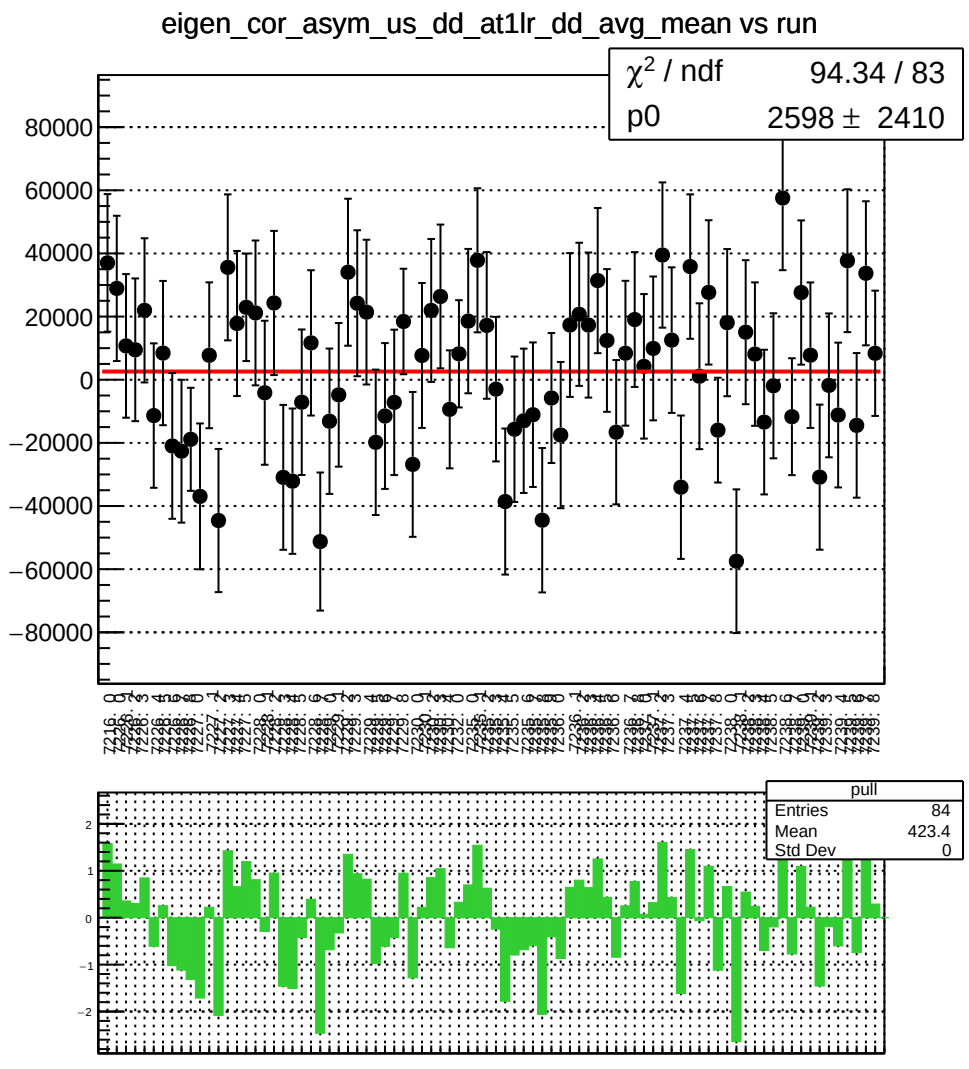

pull1D
Entries 84
Mean 0.004431
Std Dev 1.06

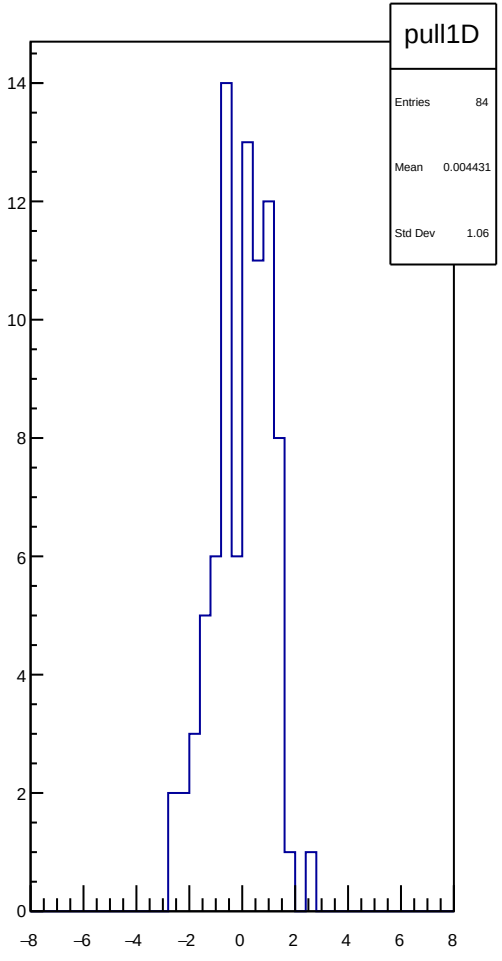

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 71.35 / 83
p0 2174 ± 1.704
2220
2200
2180
2160
2140
2120

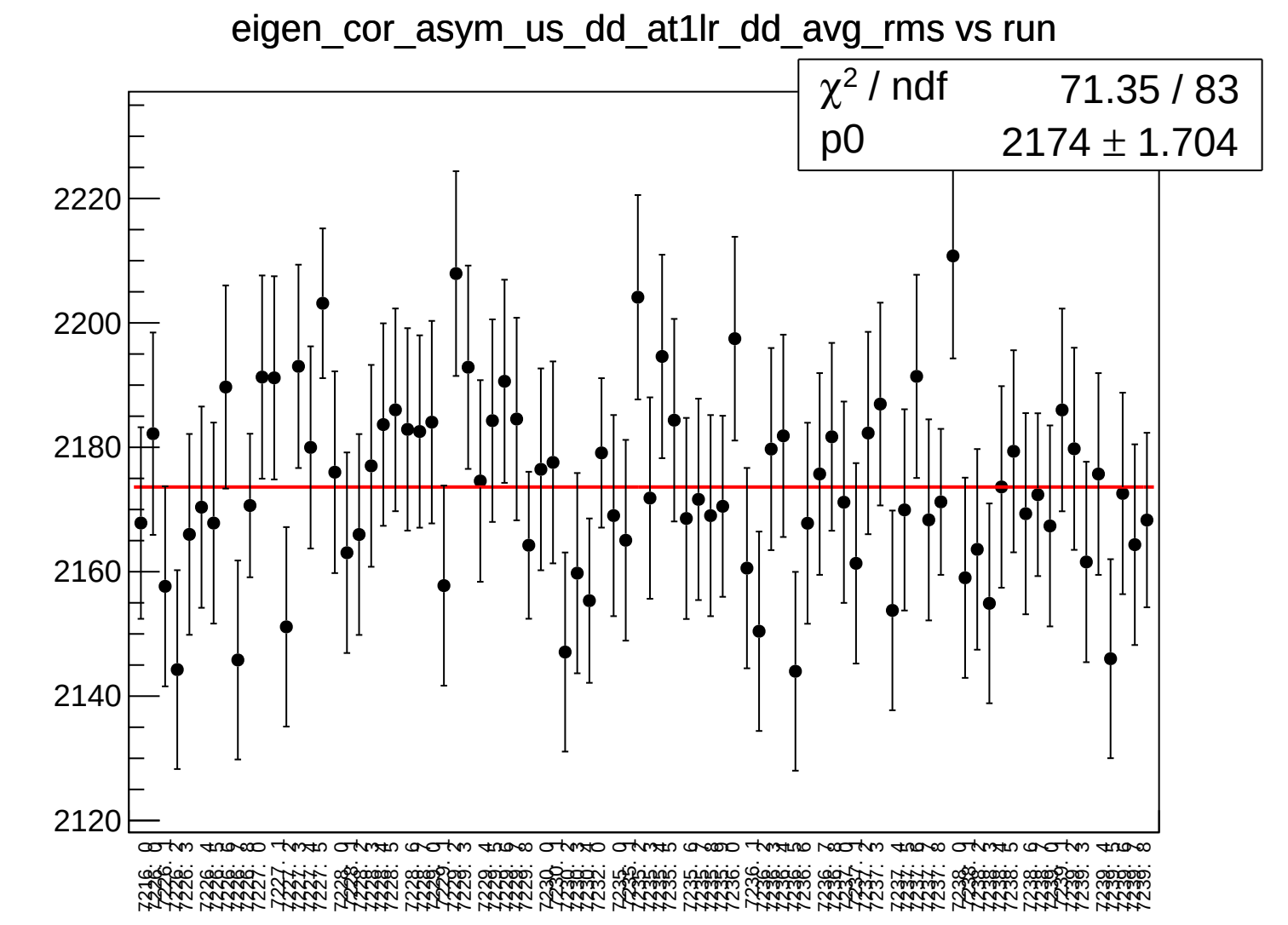

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 78.28 / 83
p0 −169.5 ± 115
pull
Entries 84
Mean −313.3
Std Dev 0

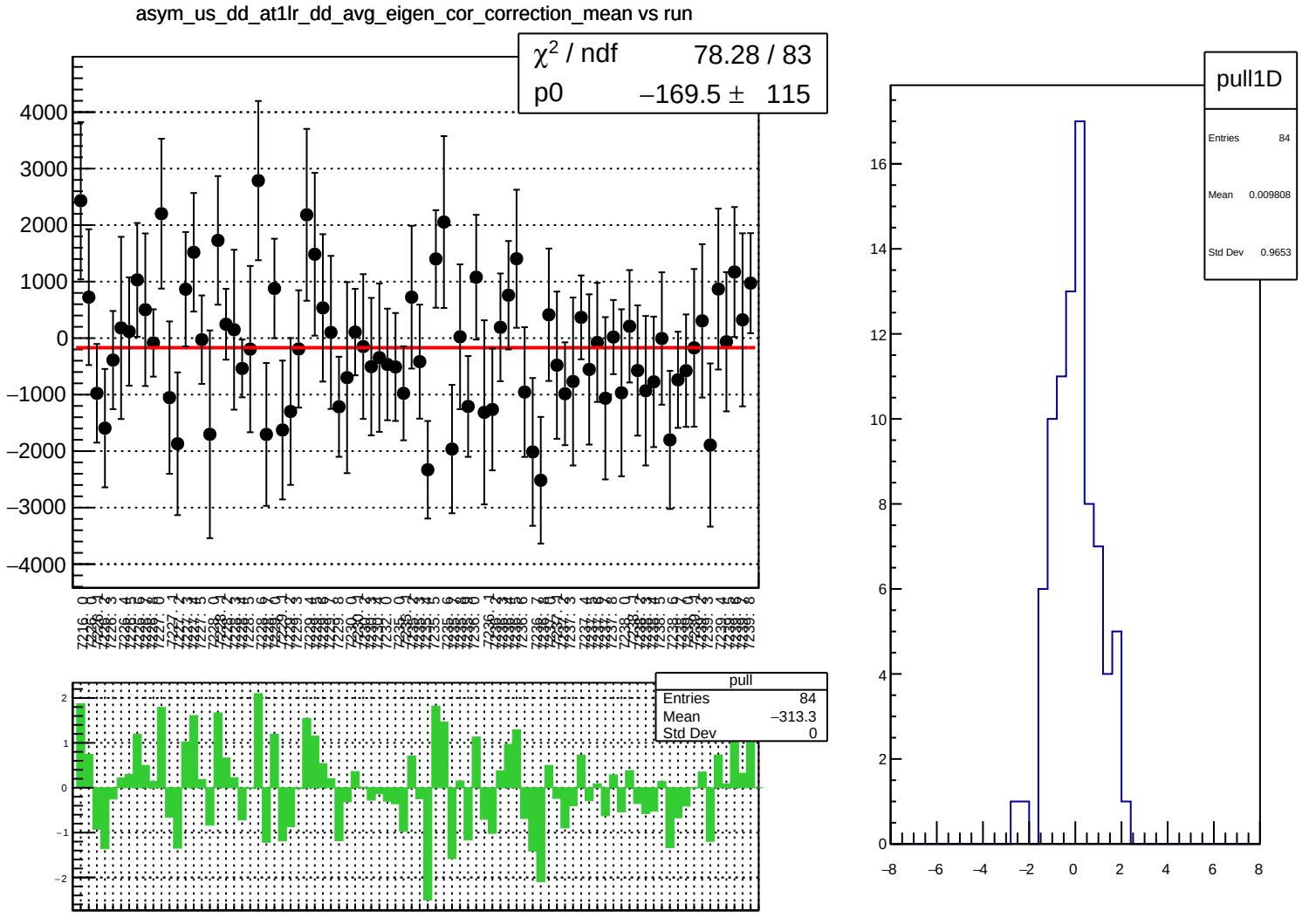

pull1D
Entries 84
Mean 0.009808
Std Dev 0.9653

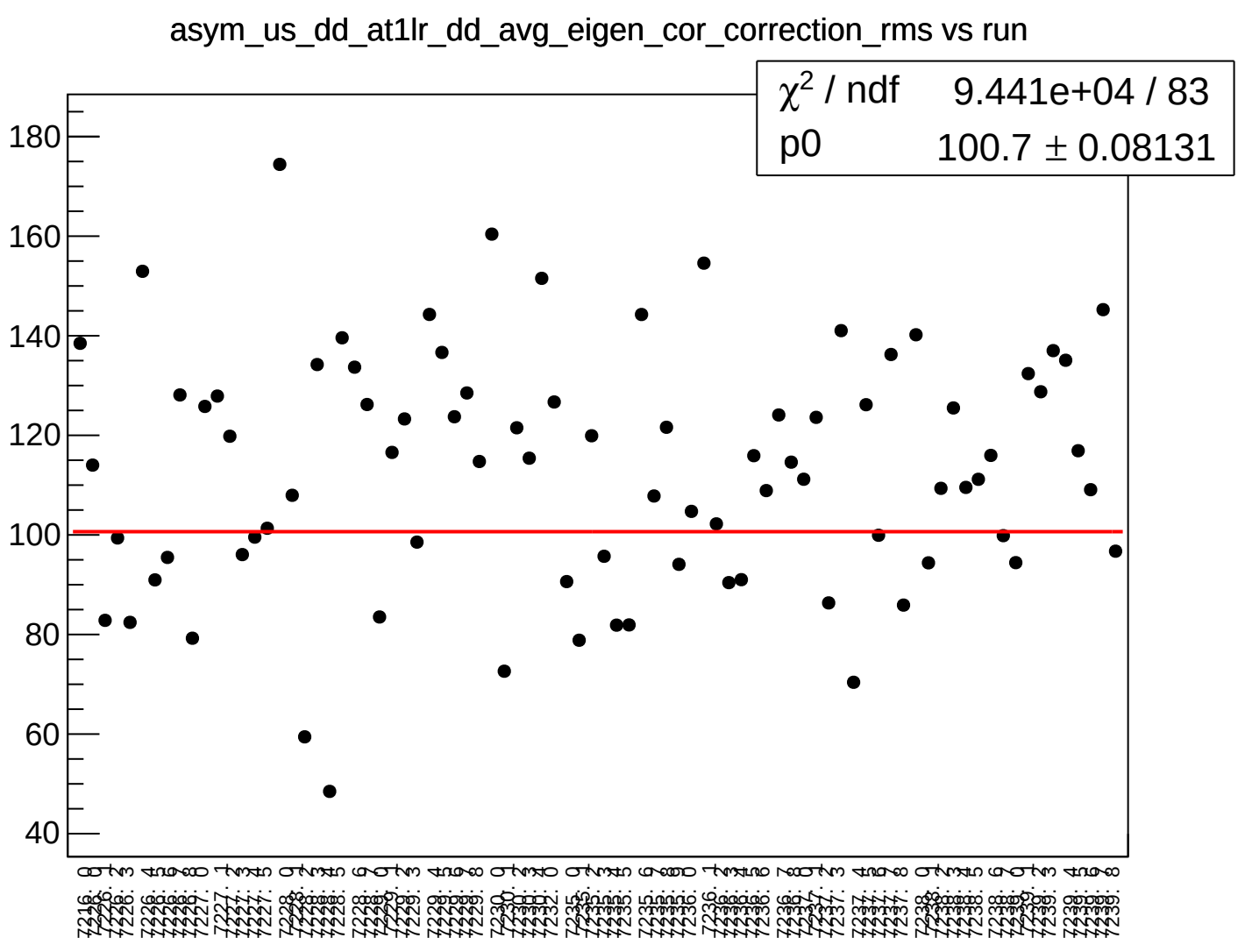

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ^2 / ndf 9.441e+04 / 83
p0 100.7 ± 0.08131
180
160
140
120
100
80
60
40

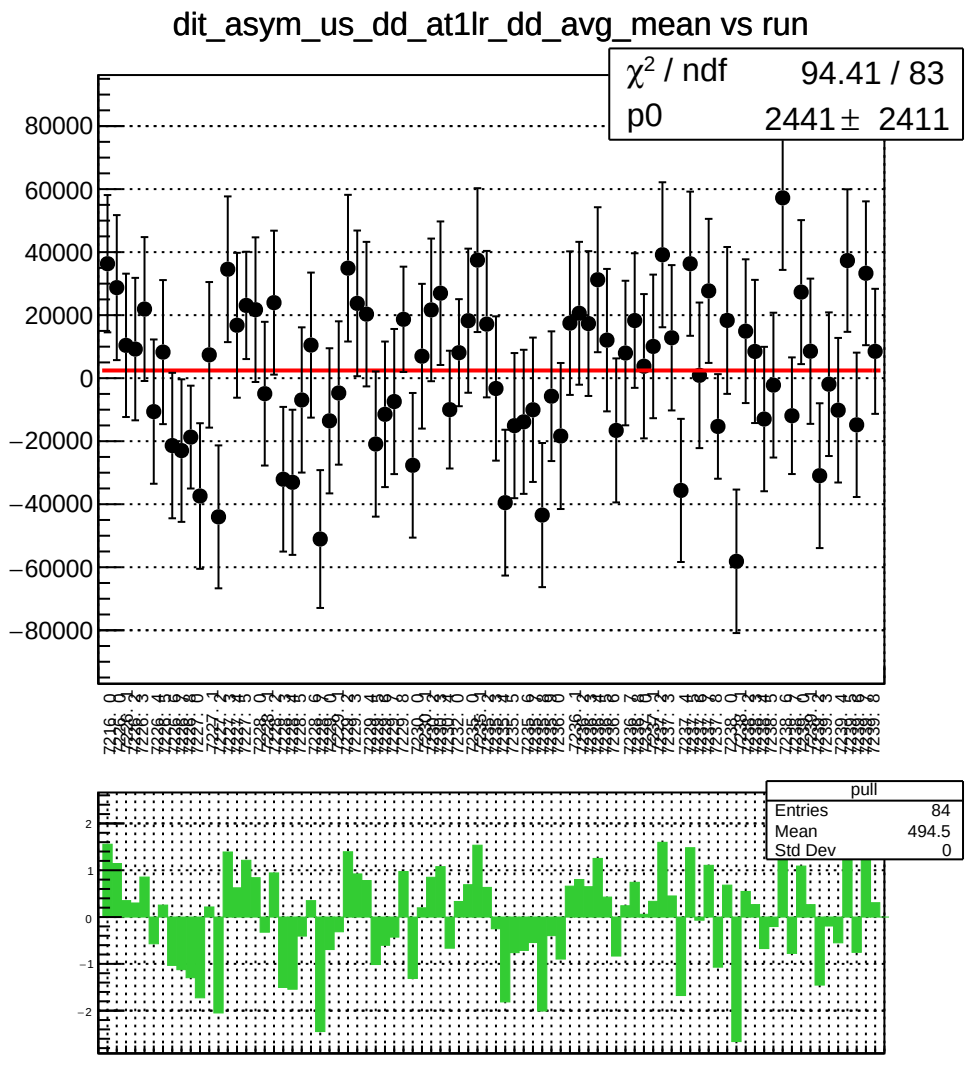

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 94.34 / 83
p0 2598 ± 2410
pull
Entries 84
Mean 423.4
Std Dev 0

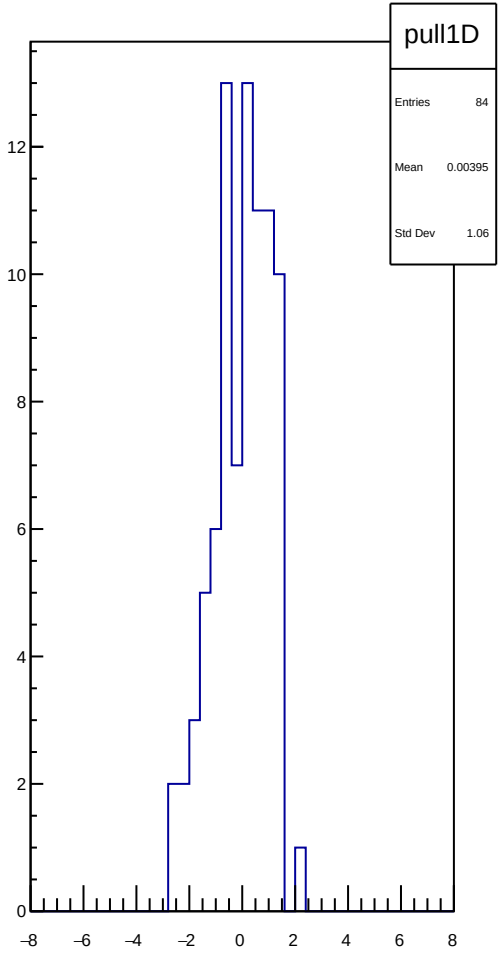

pull1D
Entries 84
Mean 0.004431
Std Dev 1.06

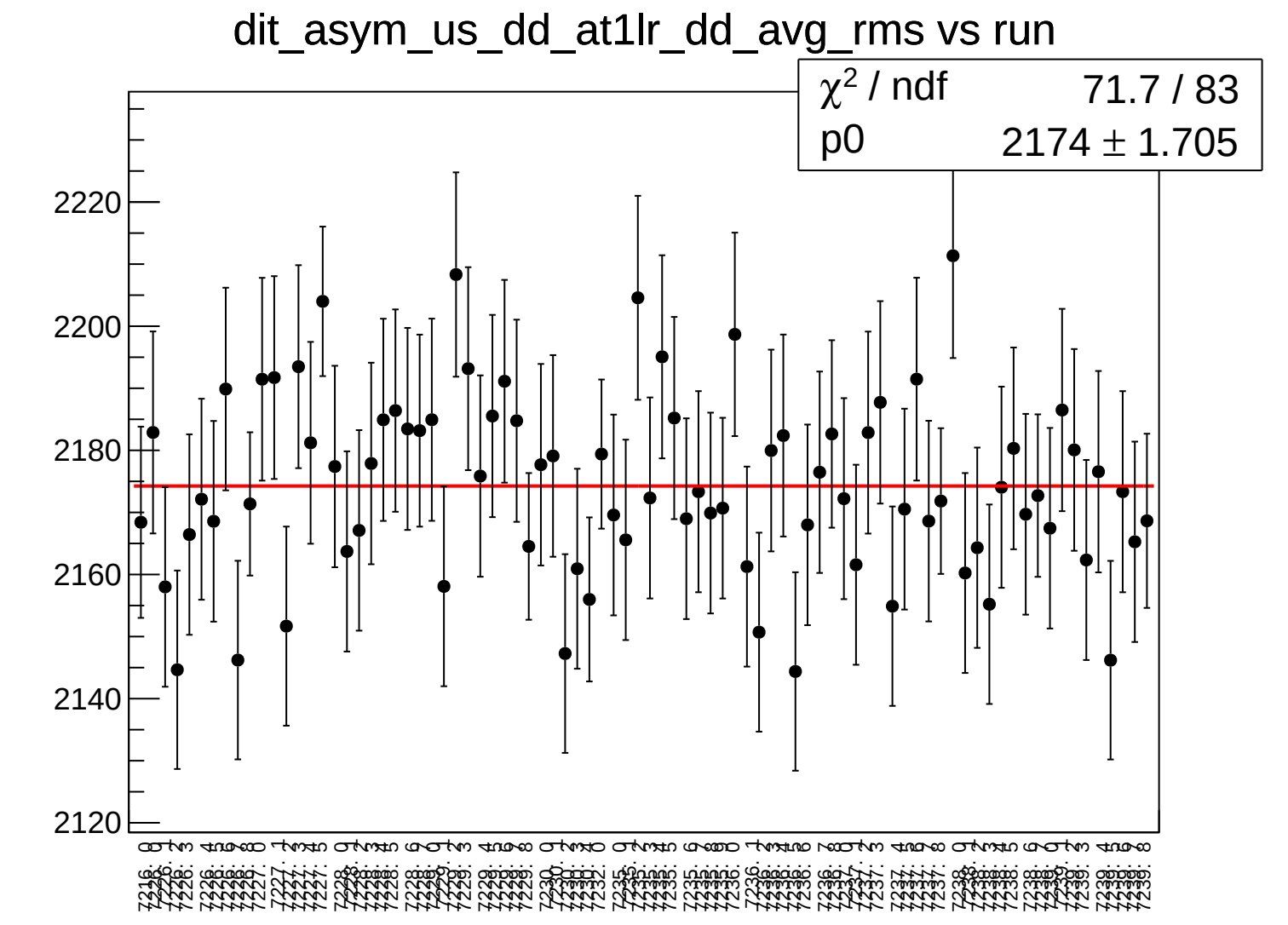

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ^2 / ndf 71.35 / 83
p0 2174 ± 1.704
2220
2200
2180
2160
2140
2120

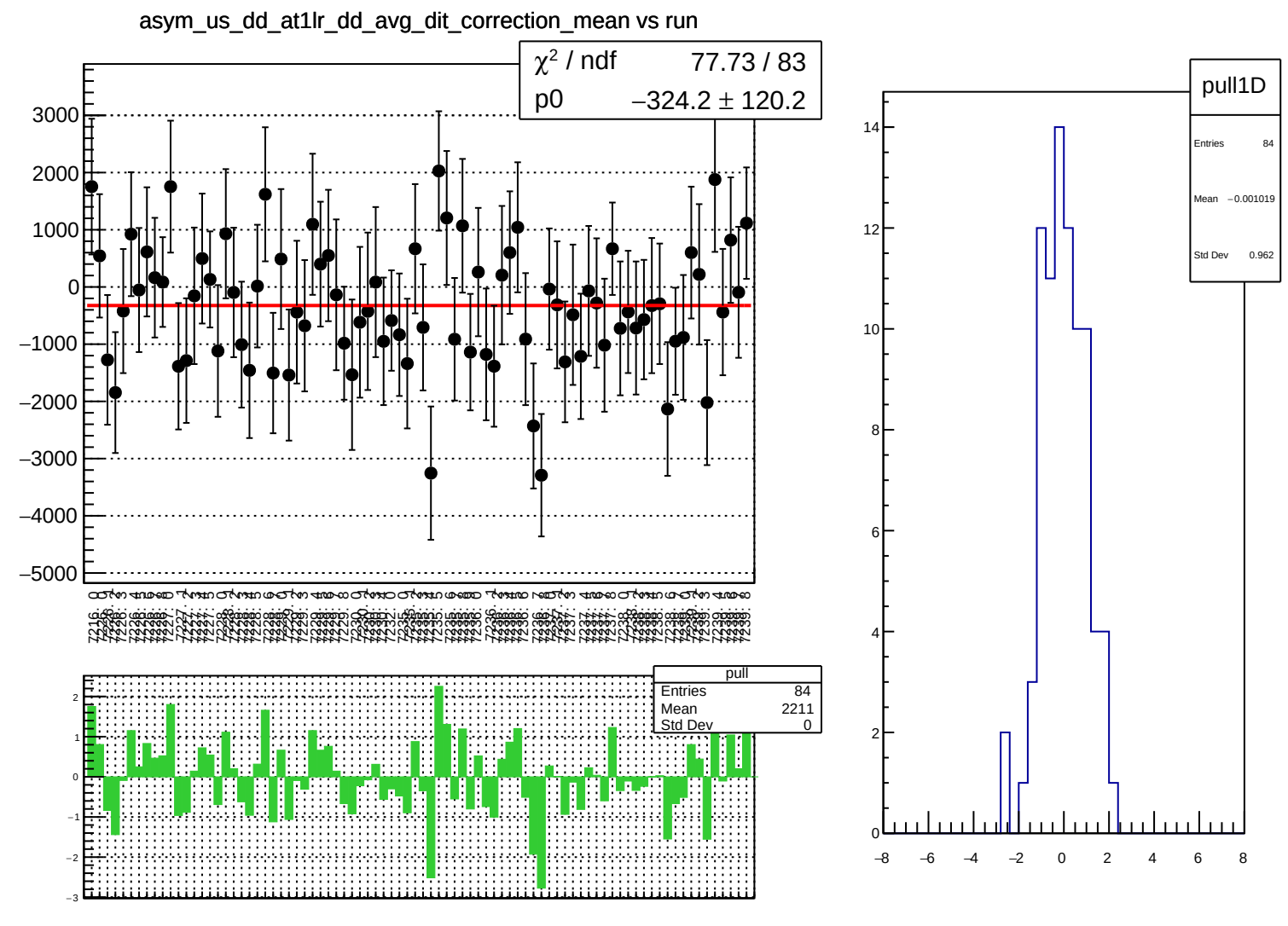

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 78.28 / 83
p0 −169.5 ± 115
pull
Entries 84
Mean −313.3
Std Dev 0
pull1D
Entries 84
Mean 0.009808
Std Dev 0.9653

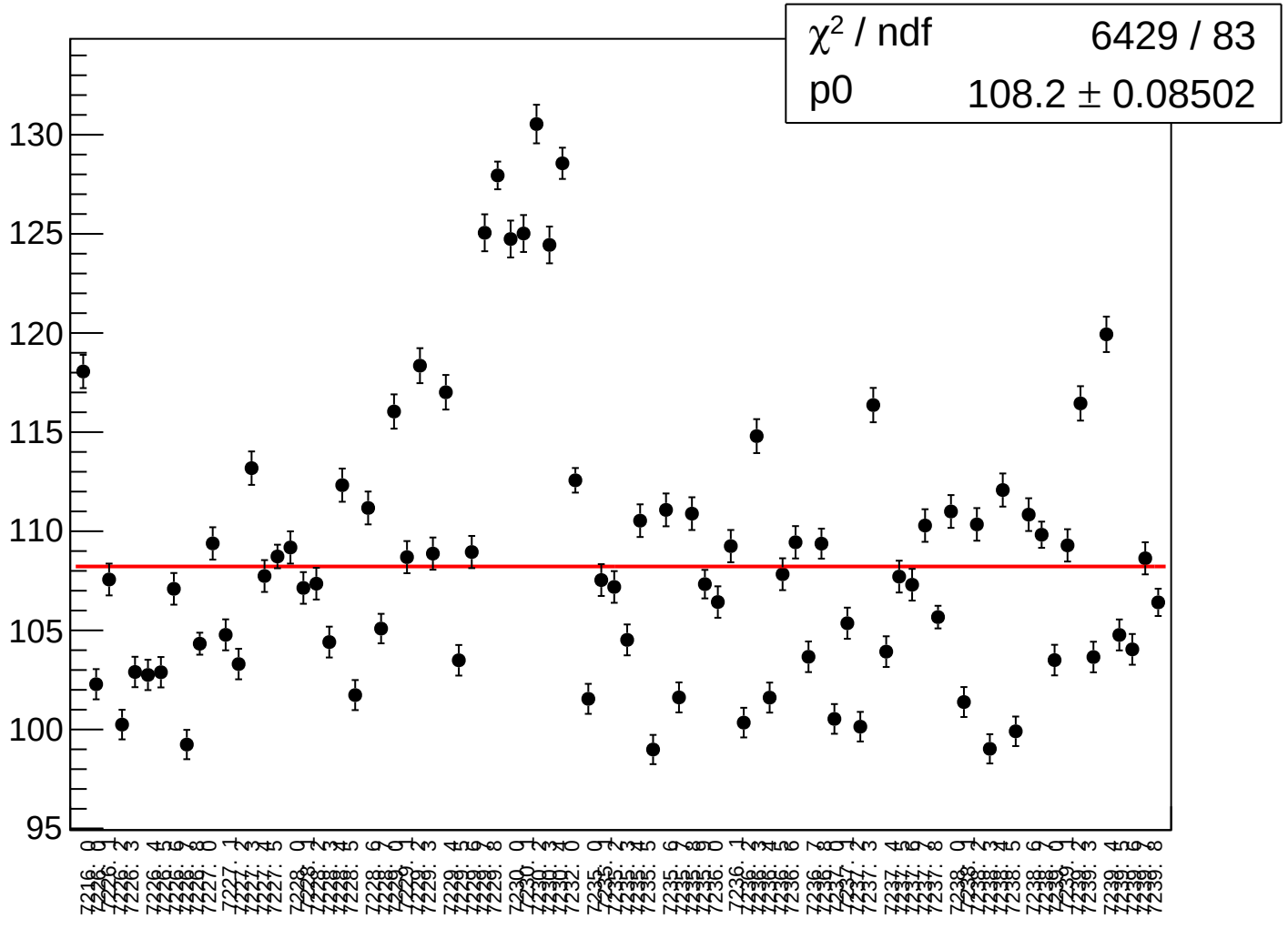

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 9.441e+04 / 83
p0 100.7 ± 0.08131
180
160
140
120
100
80
60
40

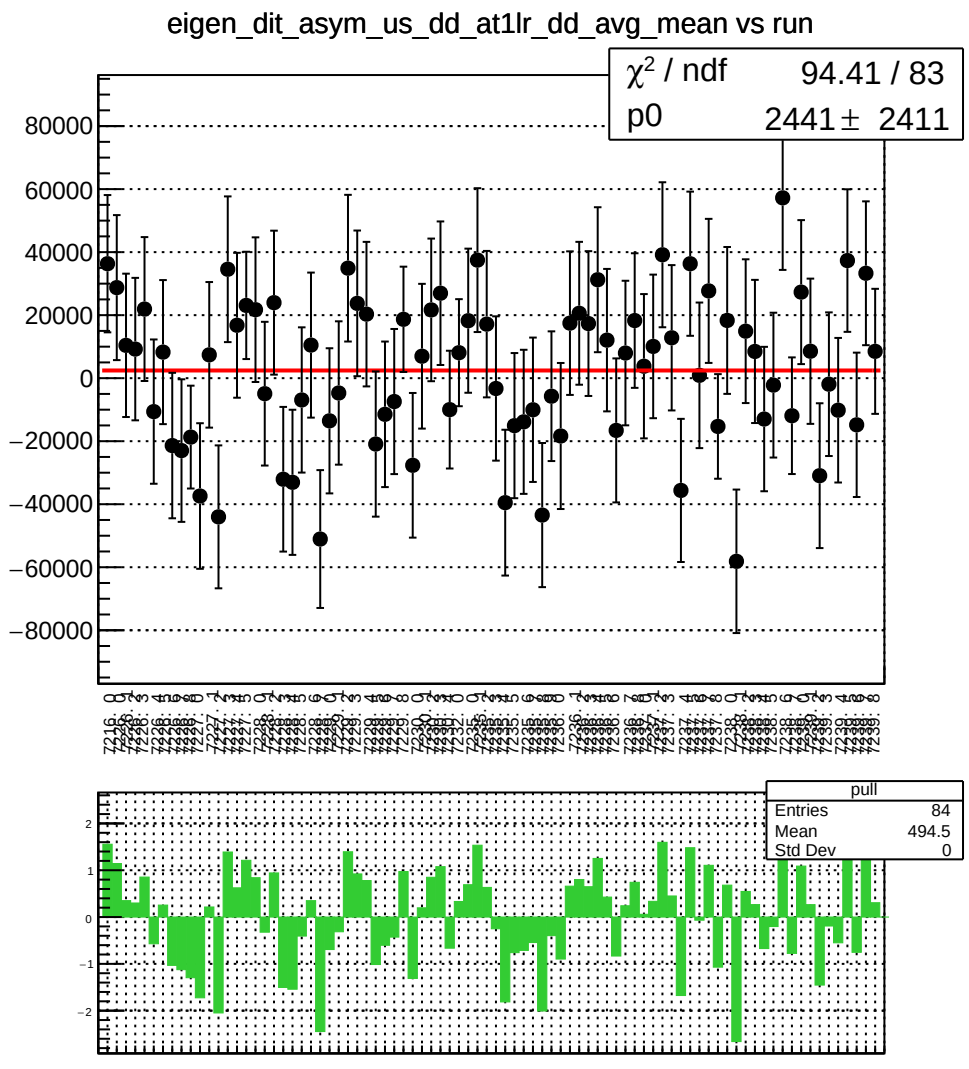

dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 94.41 / 83
p0 2441 ± 2411
pull
Entries 84
Mean 494.5
Std Dev 0

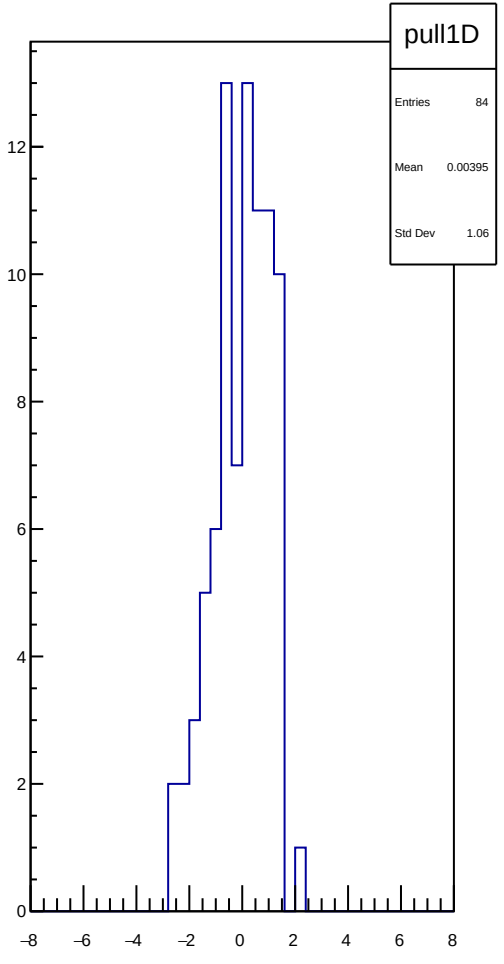

pull1D
Entries 84
Mean 0.00395
Std Dev 1.06

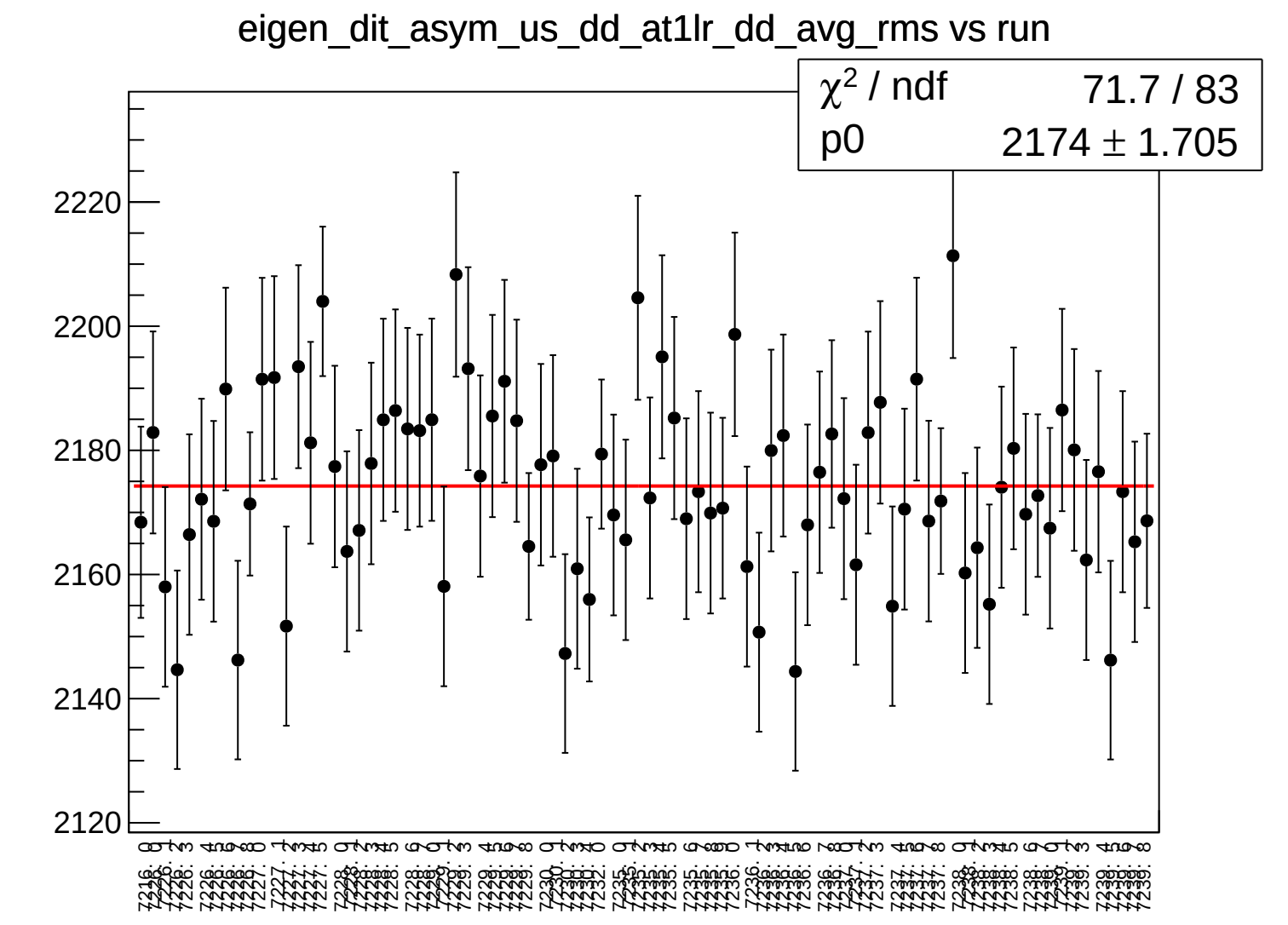

dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 71.7 / 83
p0 2174 ± 1.705
2220
2200
2180
2160
2140
2120

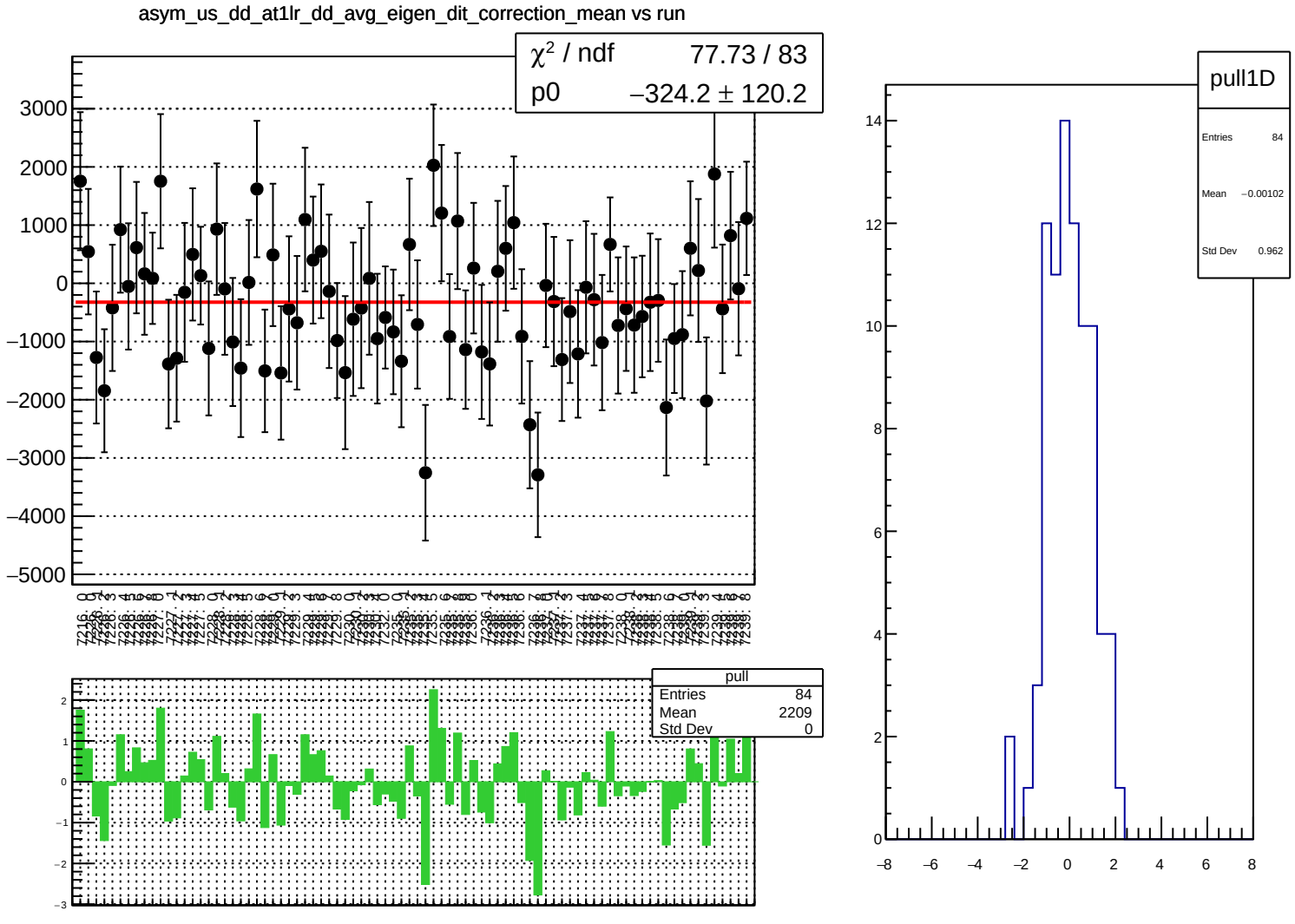

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 77.73 / 83
p0 −324.2 ± 120.2
pull
Entries 84
Mean 2211
Std Dev 0
pull1D
Entries 84
Mean −0.001019
Std Dev 0.962

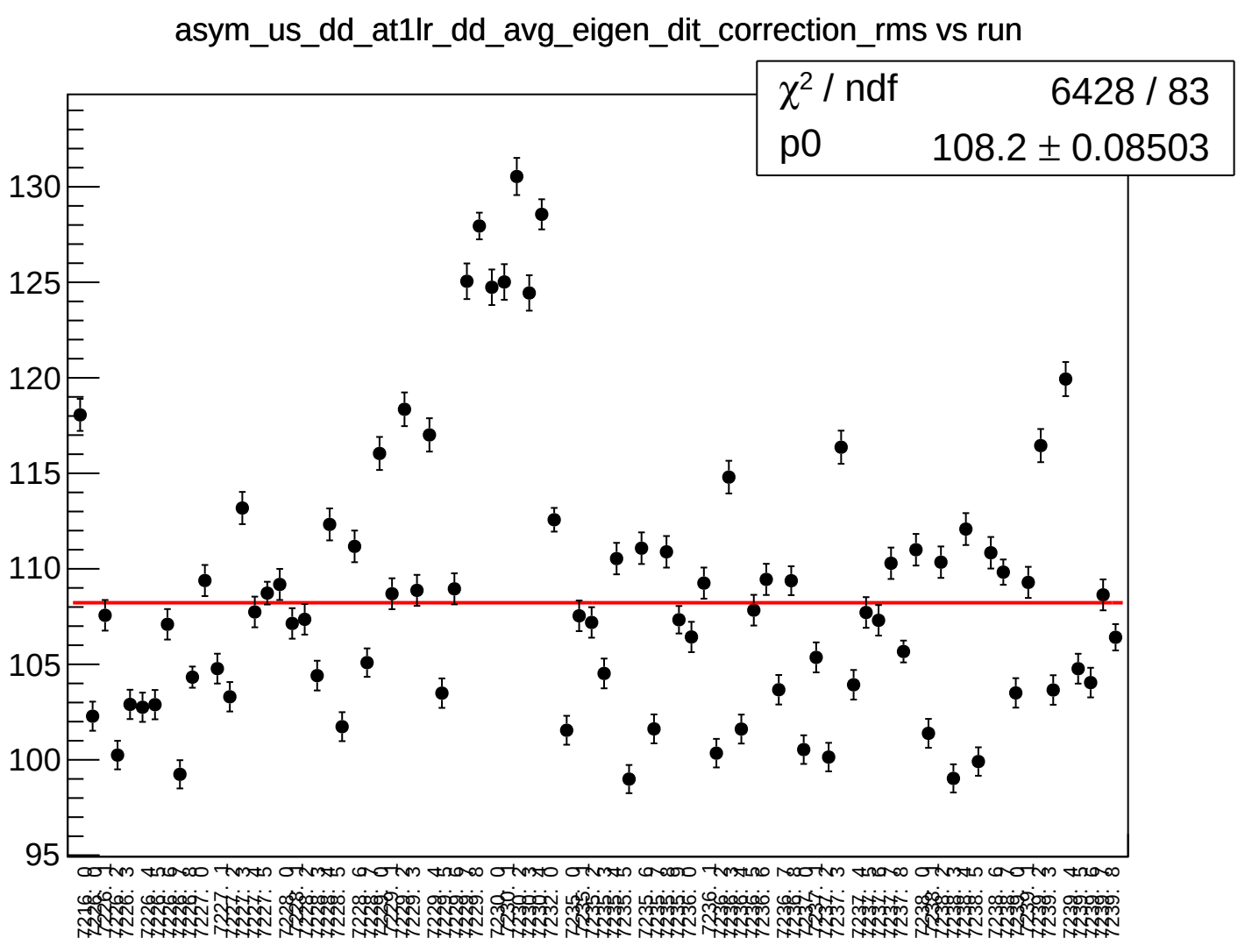

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 6429 / 83
p0 108.2 ± 0.08502
130
125
120
115
110
105
100
95

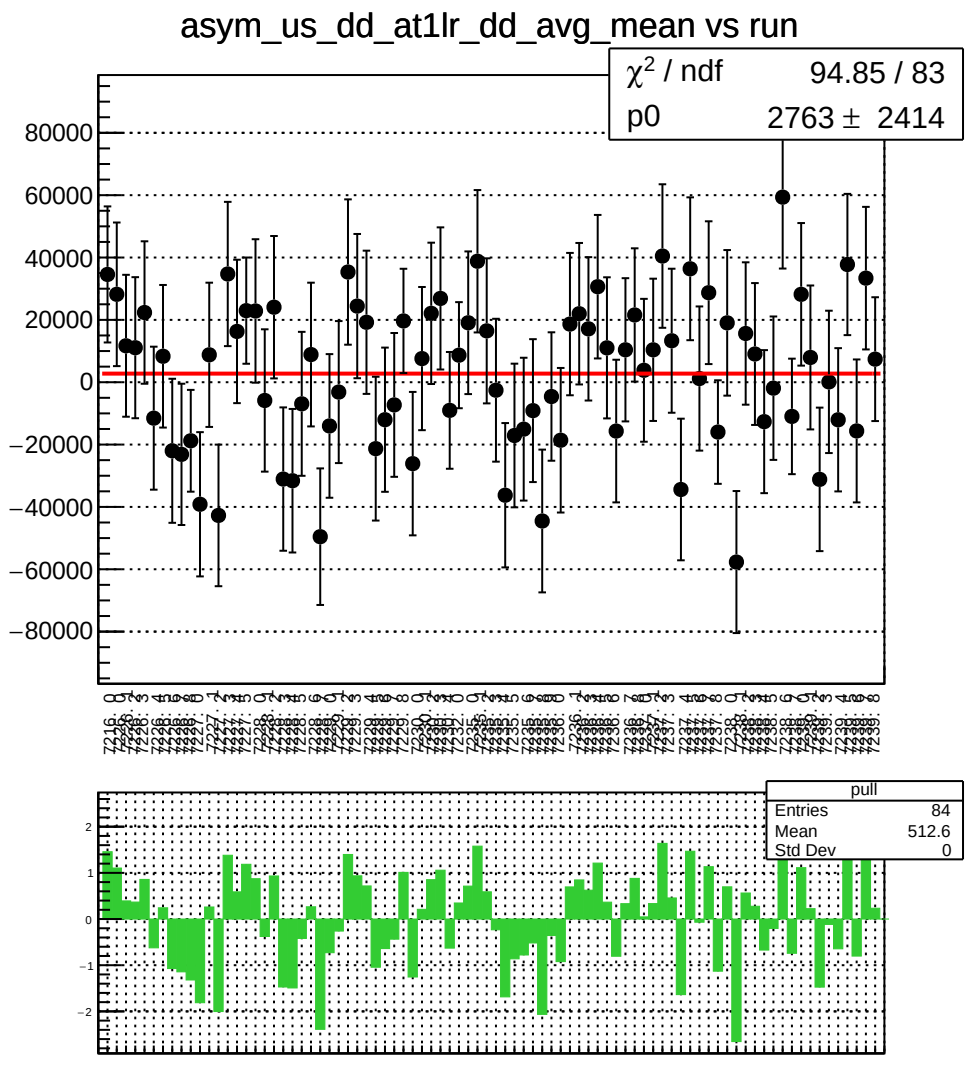

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 94.41 / 83
p0 2441 ± 2411
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean 494.5
Std Dev 0
2
1
0
−1
−2

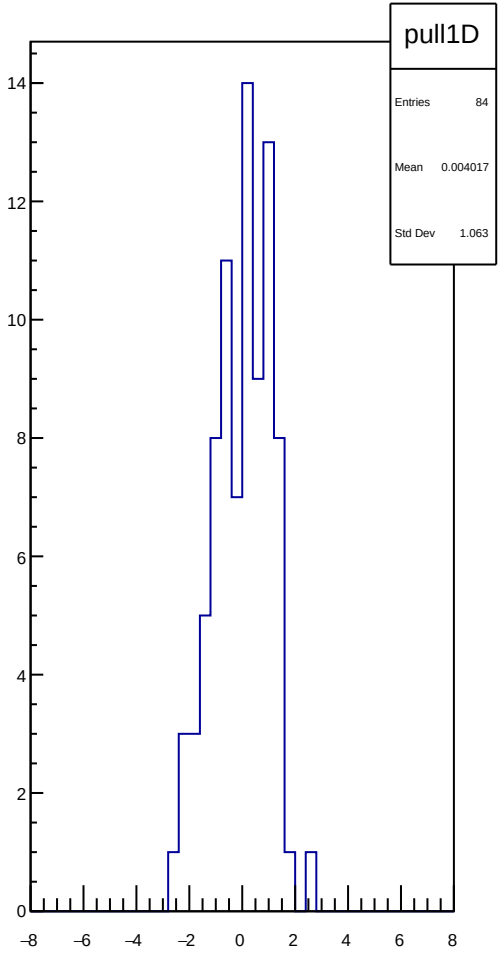

pull1D
Entries 84
Mean 0.00395
Std Dev 1.06
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

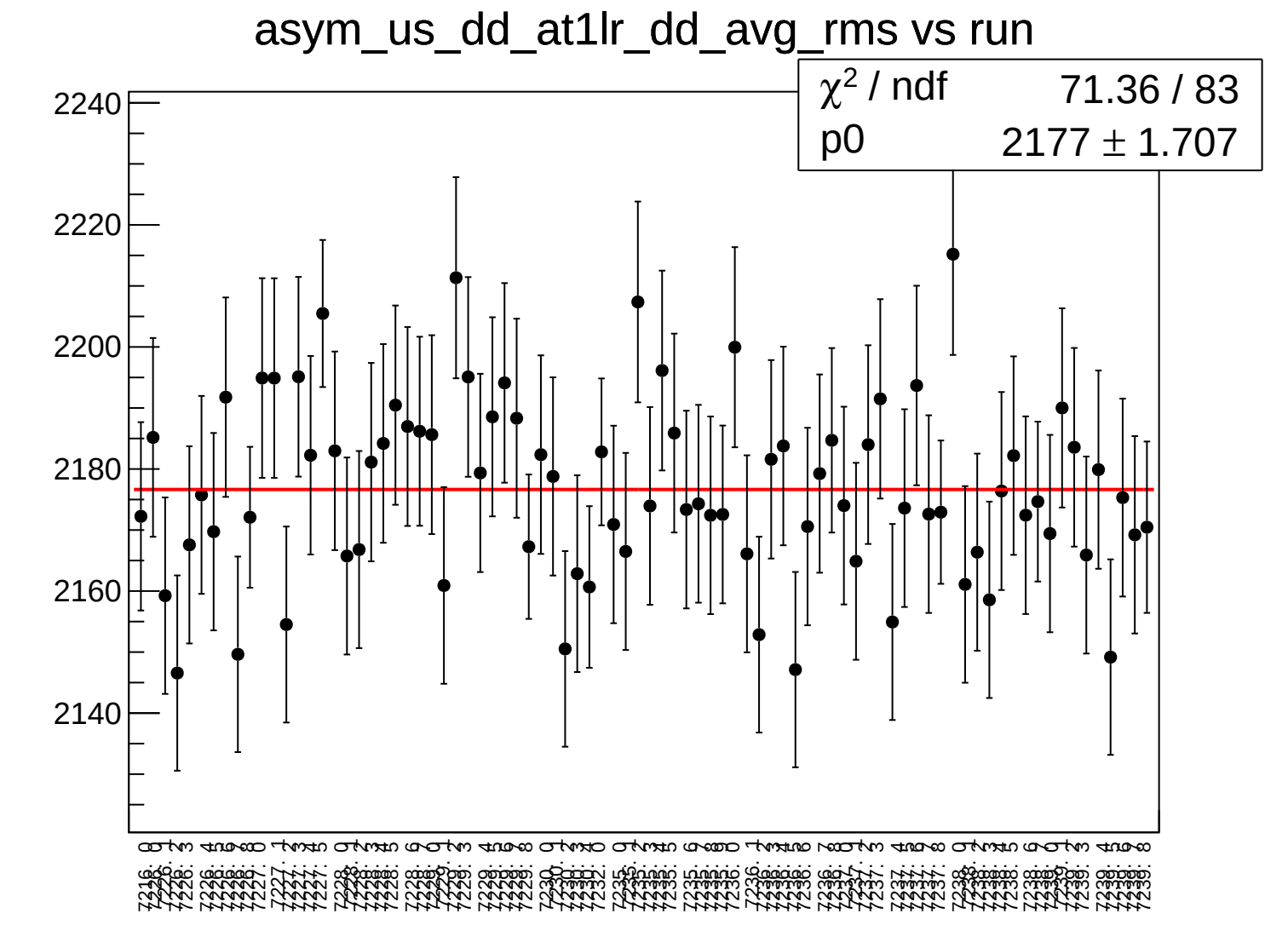

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ^2 / ndf 71.7 / 83
p0 2174 ± 1.705
2220
2200
2180
2160
2140
2120

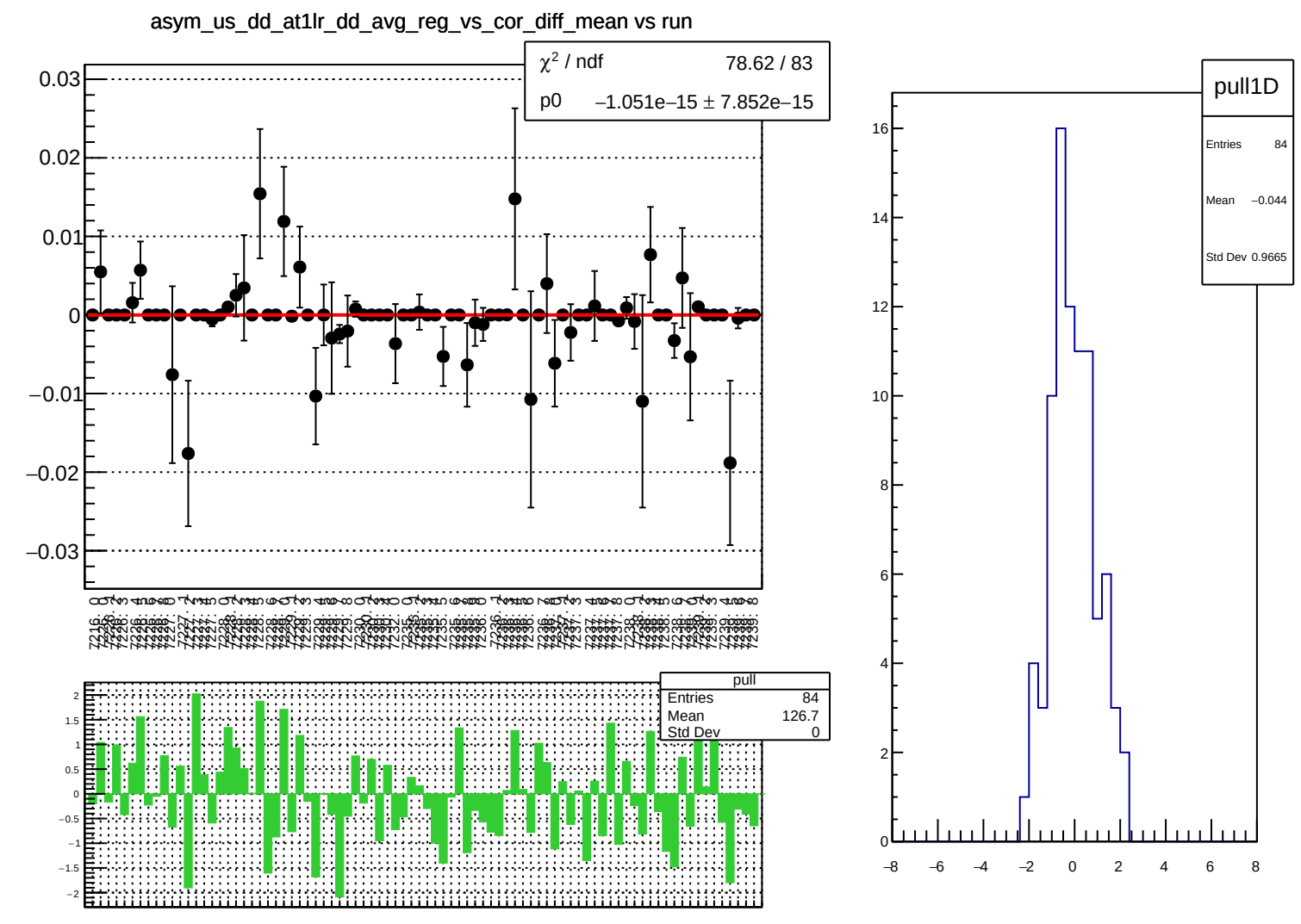

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 77.73 / 83
p0 −324.2 ± 120.2
pull
Entries 84
Mean 2209
Std Dev 0
pull1D
Entries 84
Mean −0.00102
Std Dev 0.962

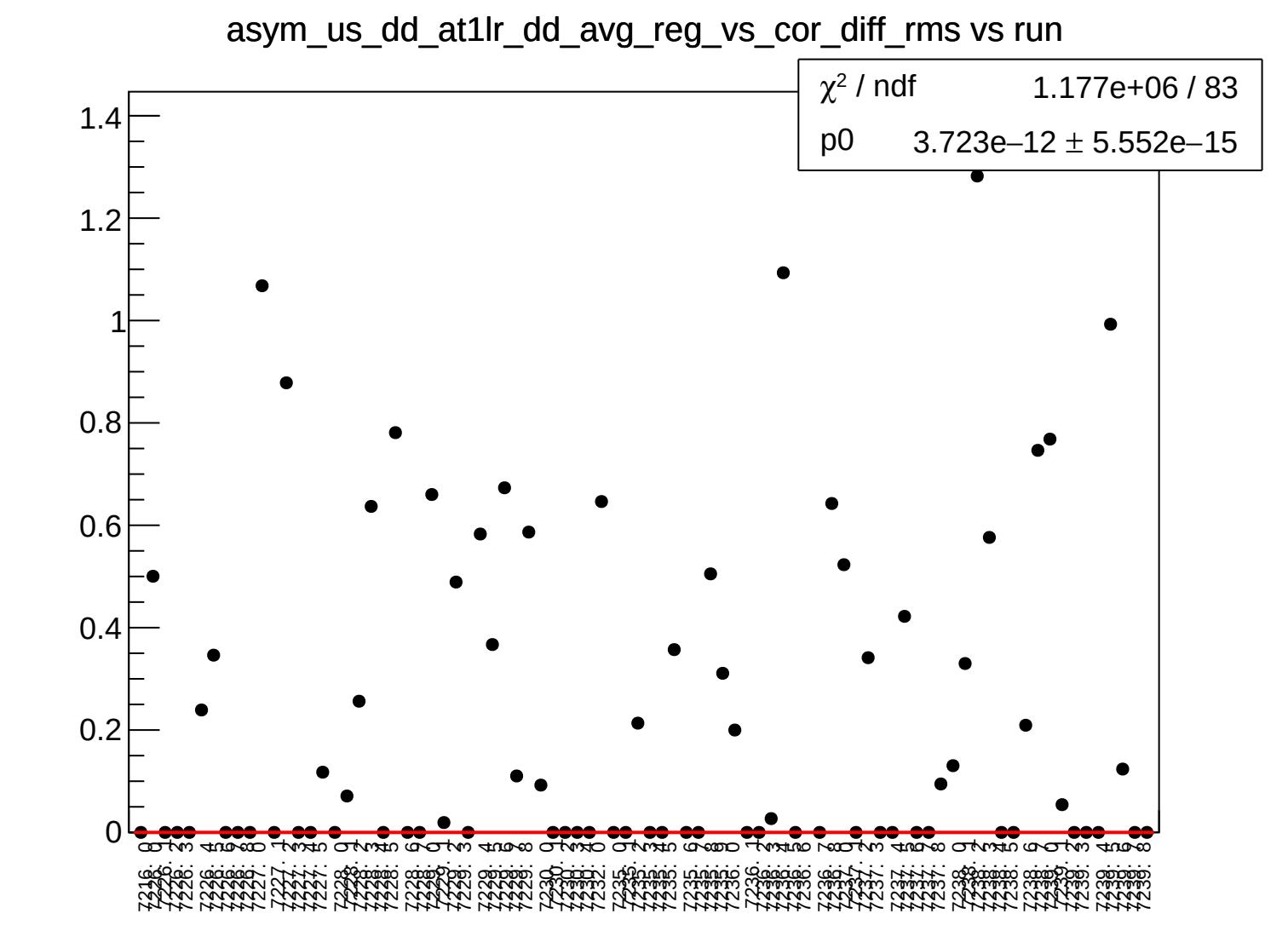

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 6428 / 83
p0 108.2 ± 0.08503
130
125
120
115
110
105
100
95

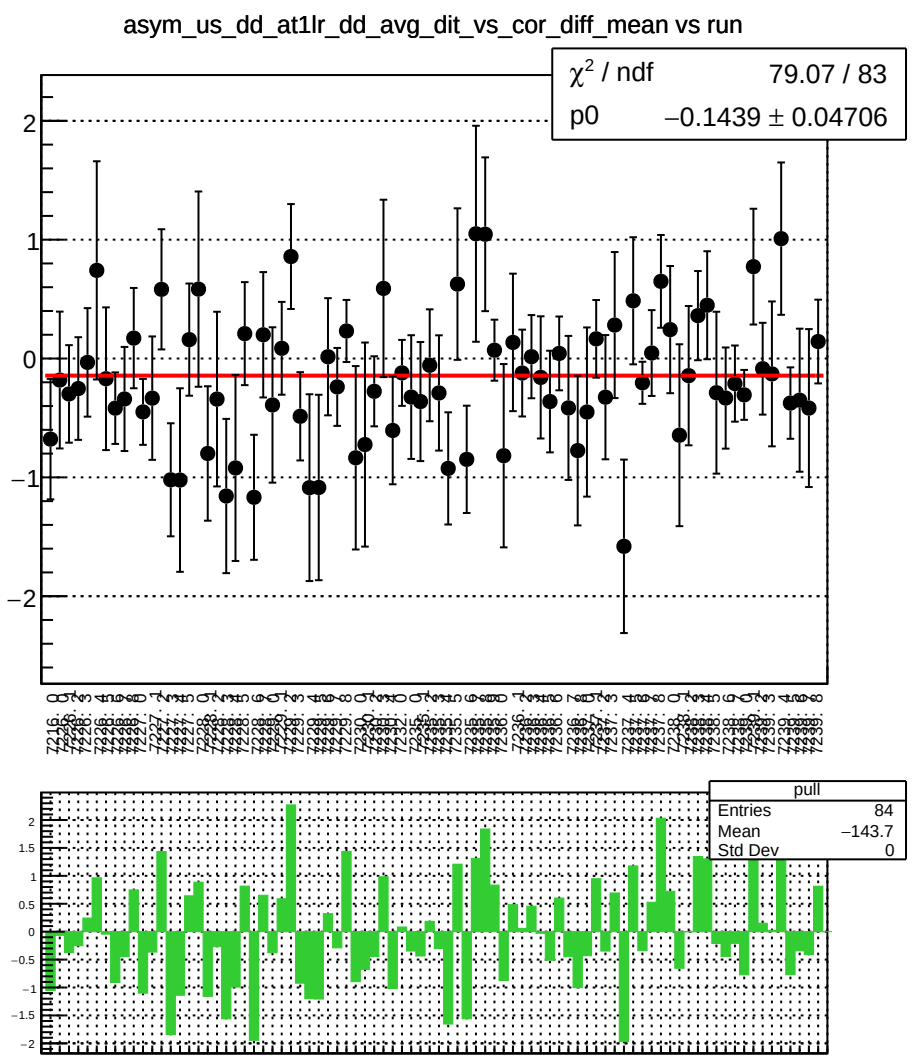

asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 94.85 / 83
p0 2763 ± 2414
pull
Entries 84
Mean 512.6
Std Dev 0

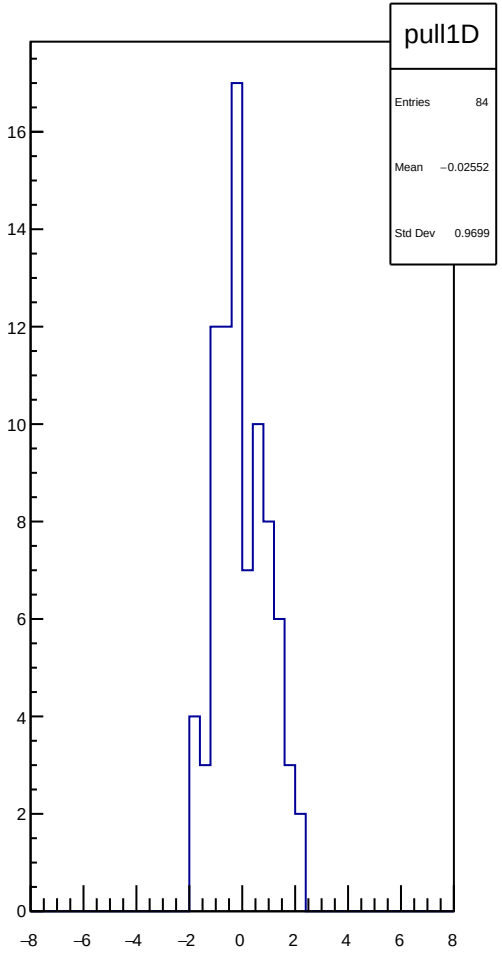

pull1D
Entries 84
Mean 0.004017
Std Dev 1.063

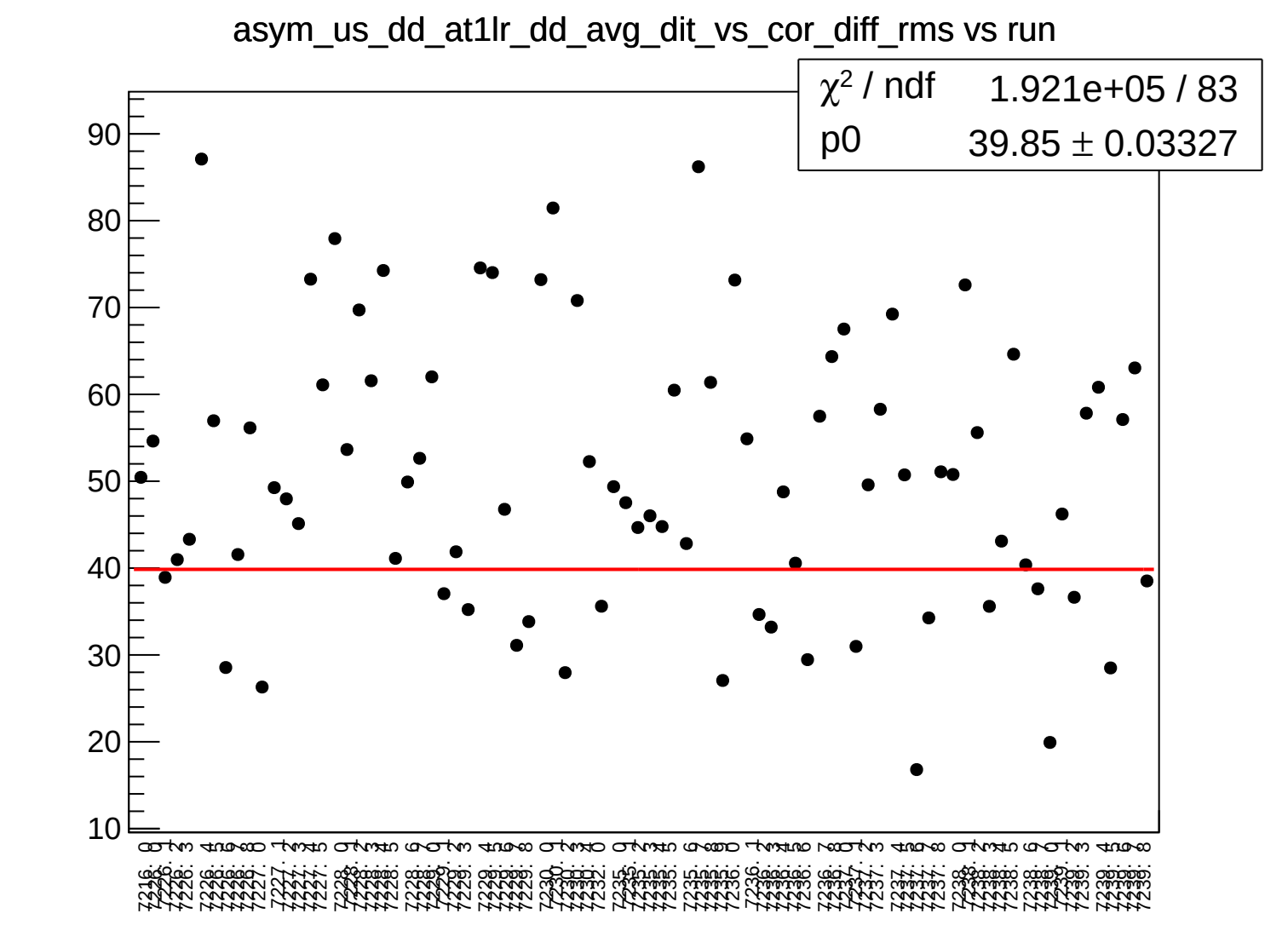

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 71.36 / 83
p0 2177 ± 1.707
2240
2220
2200
2180
2160
2140

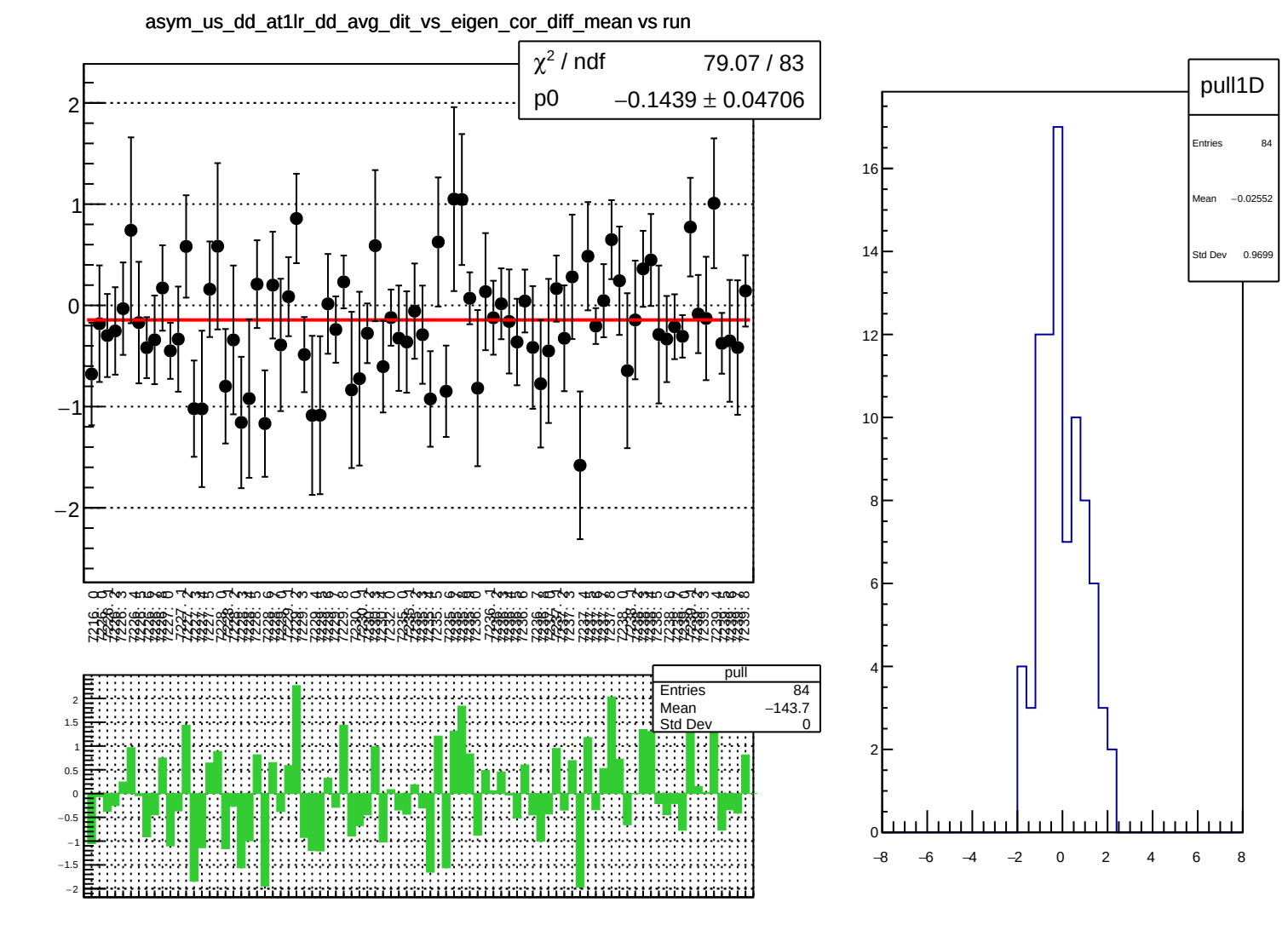

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 78.62 / 83
p0 −1.051e−15 ± 7.852e−15
pull
Entries 84
Mean 126.7
Std Dev 0
pull1D
Entries 84
Mean −0.044
Std Dev 0.9665

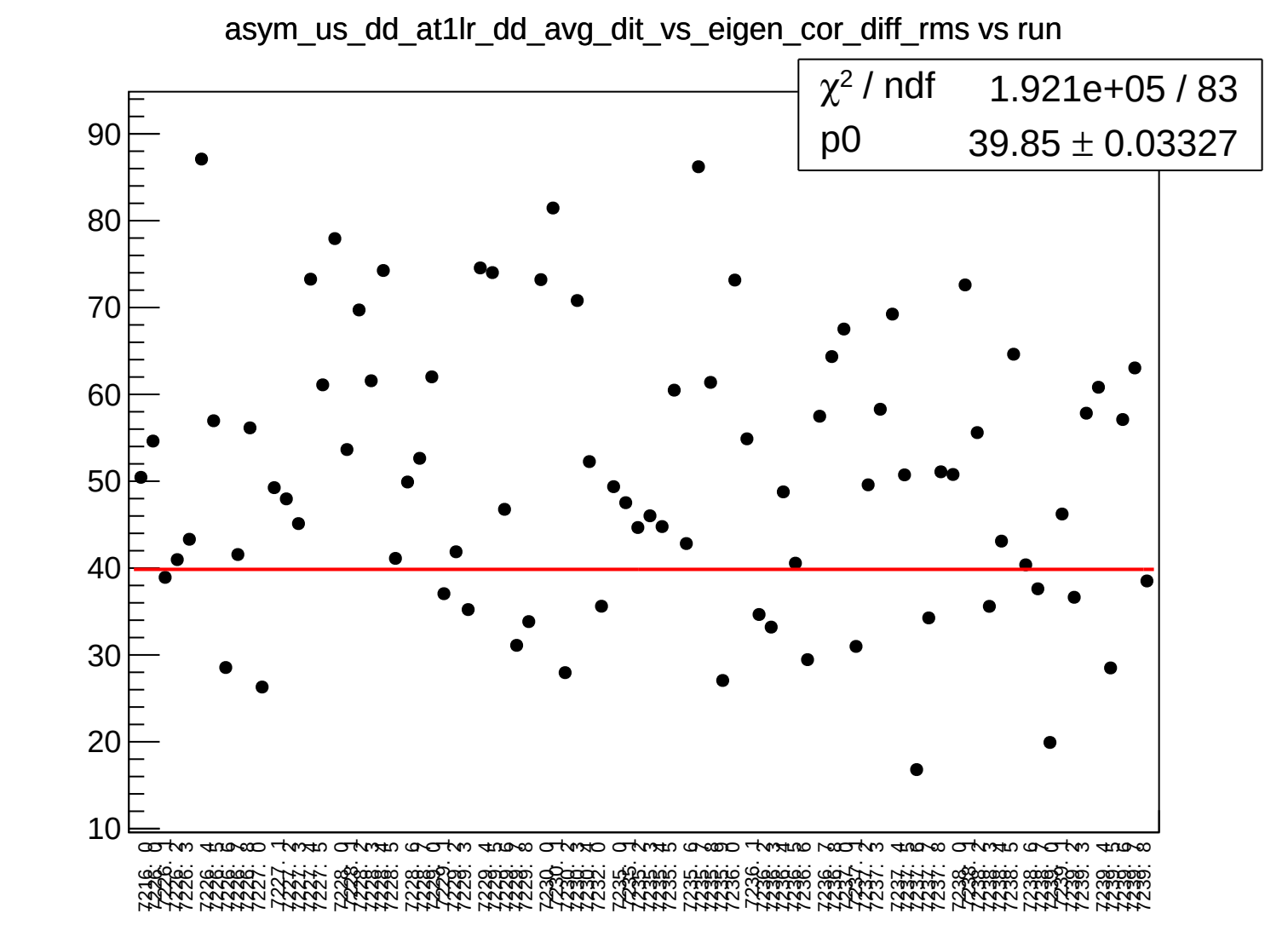

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.177e+06 / 83
p0 3.723e−12 ± 5.552e−15
1.4
1.2
1
0.8
0.6
0.4
0.2
0

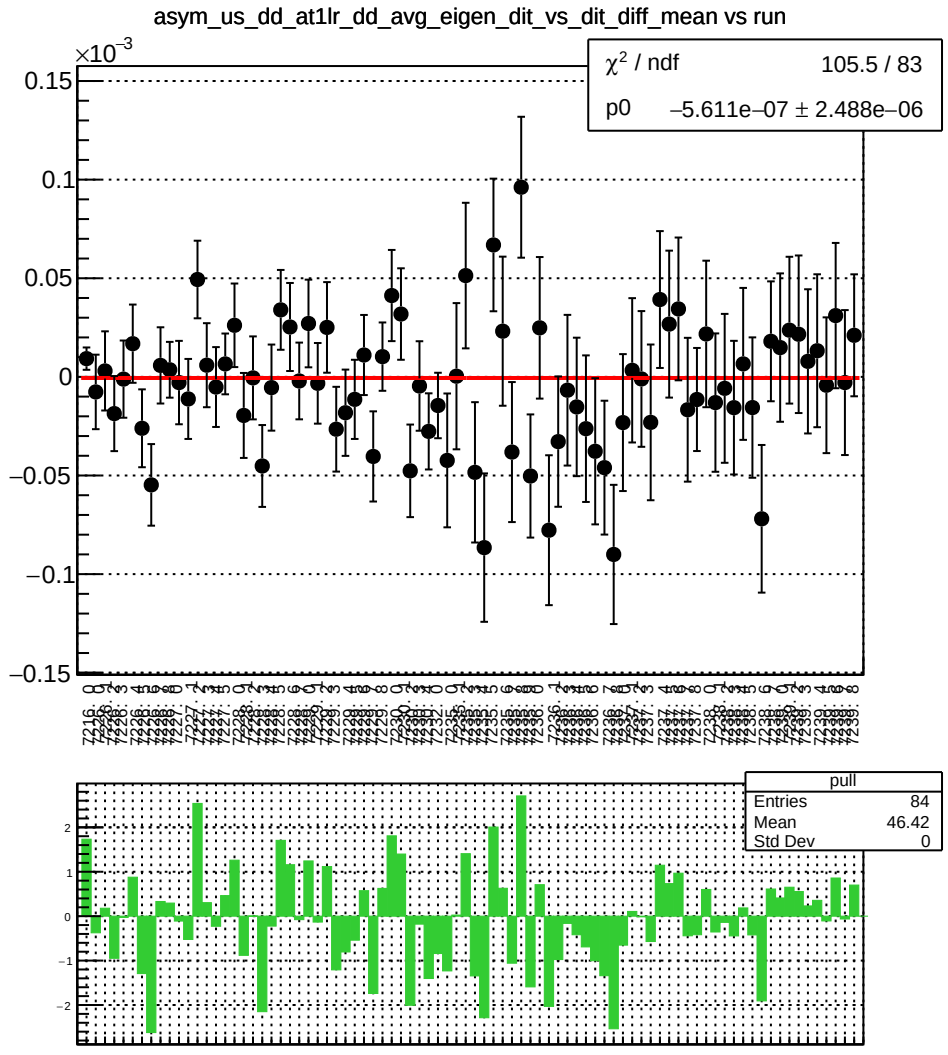

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 79.07 / 83
p0 −0.1439 ± 0.04706
pull
Entries 84
Mean −143.7
Std Dev 0

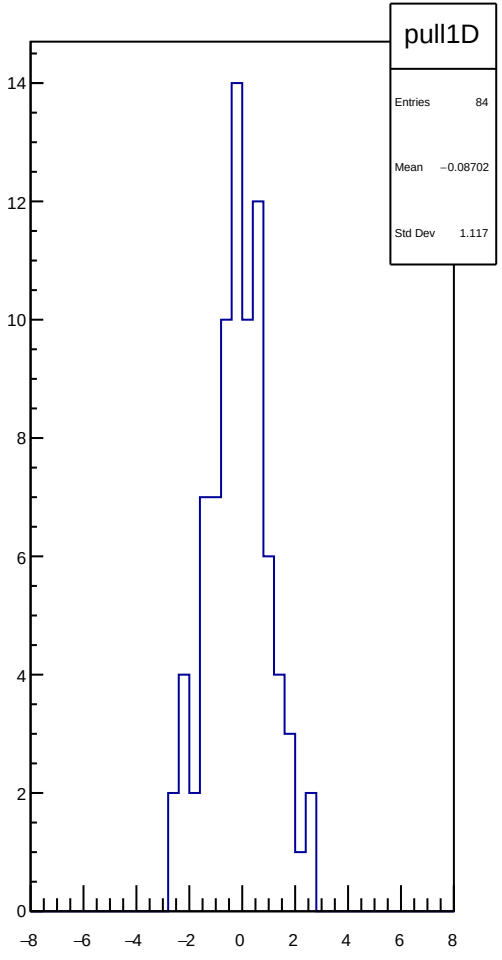

pull1D
Entries 84
Mean −0.02552
Std Dev 0.9699

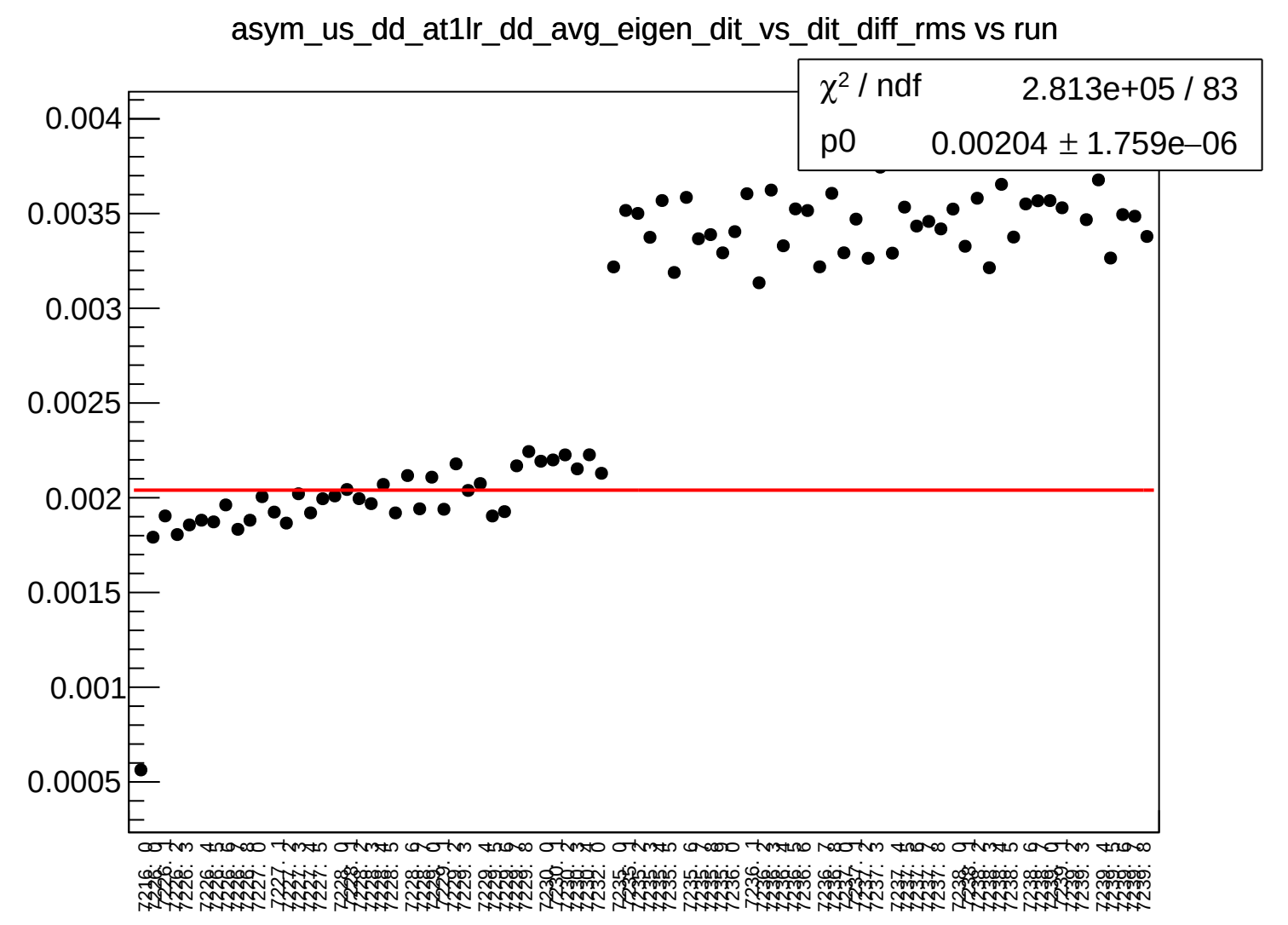

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.921e+05 / 83
p0 39.85 ± 0.03327
90
80
70
60
50
40
30
20
10

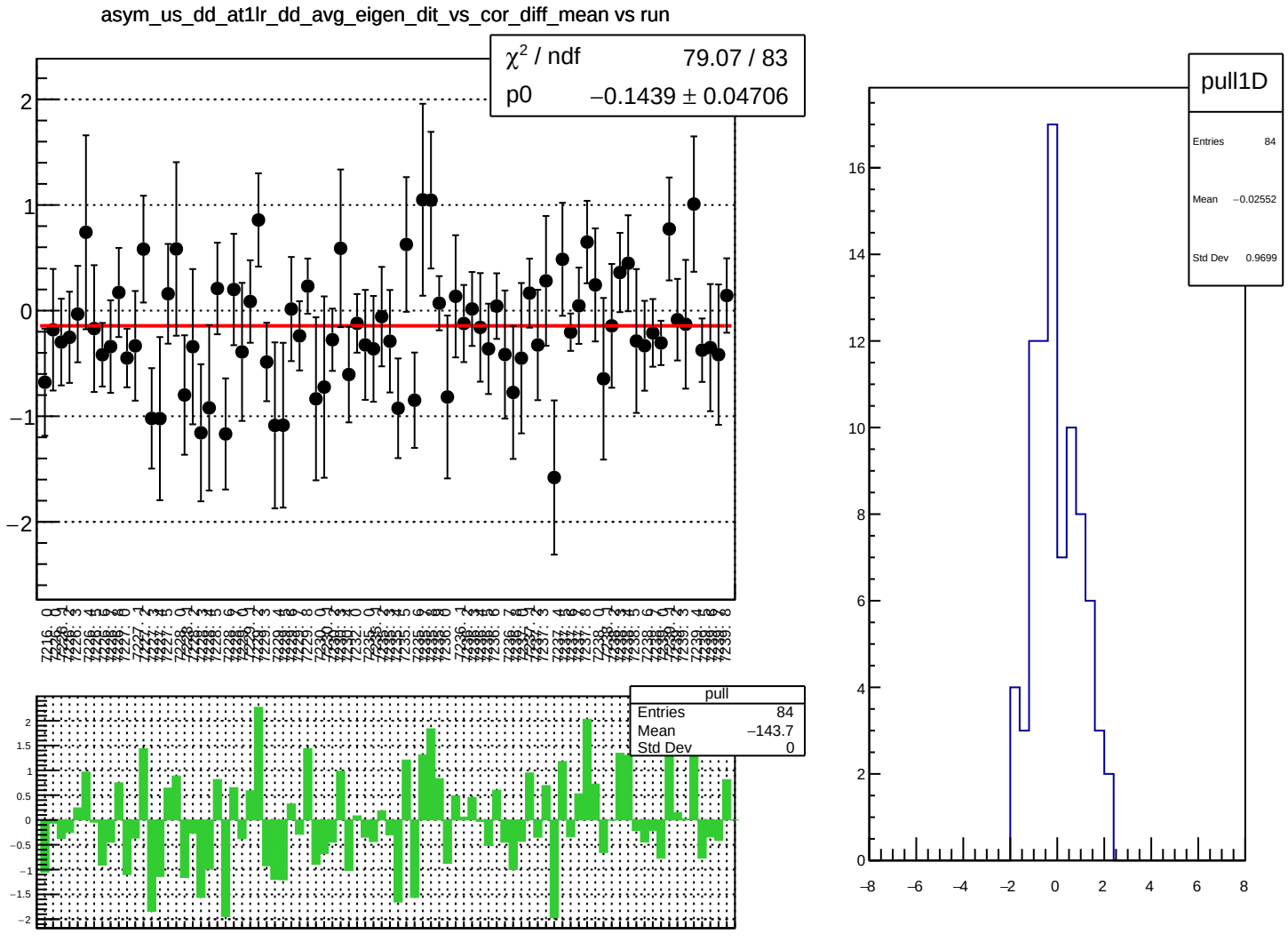

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.07 / 83
p0 −0.1439 ± 0.04706
pull
Entries 84
Mean −143.7
Std Dev 0
pull1D
Entries 84
Mean −0.02552
Std Dev 0.9699

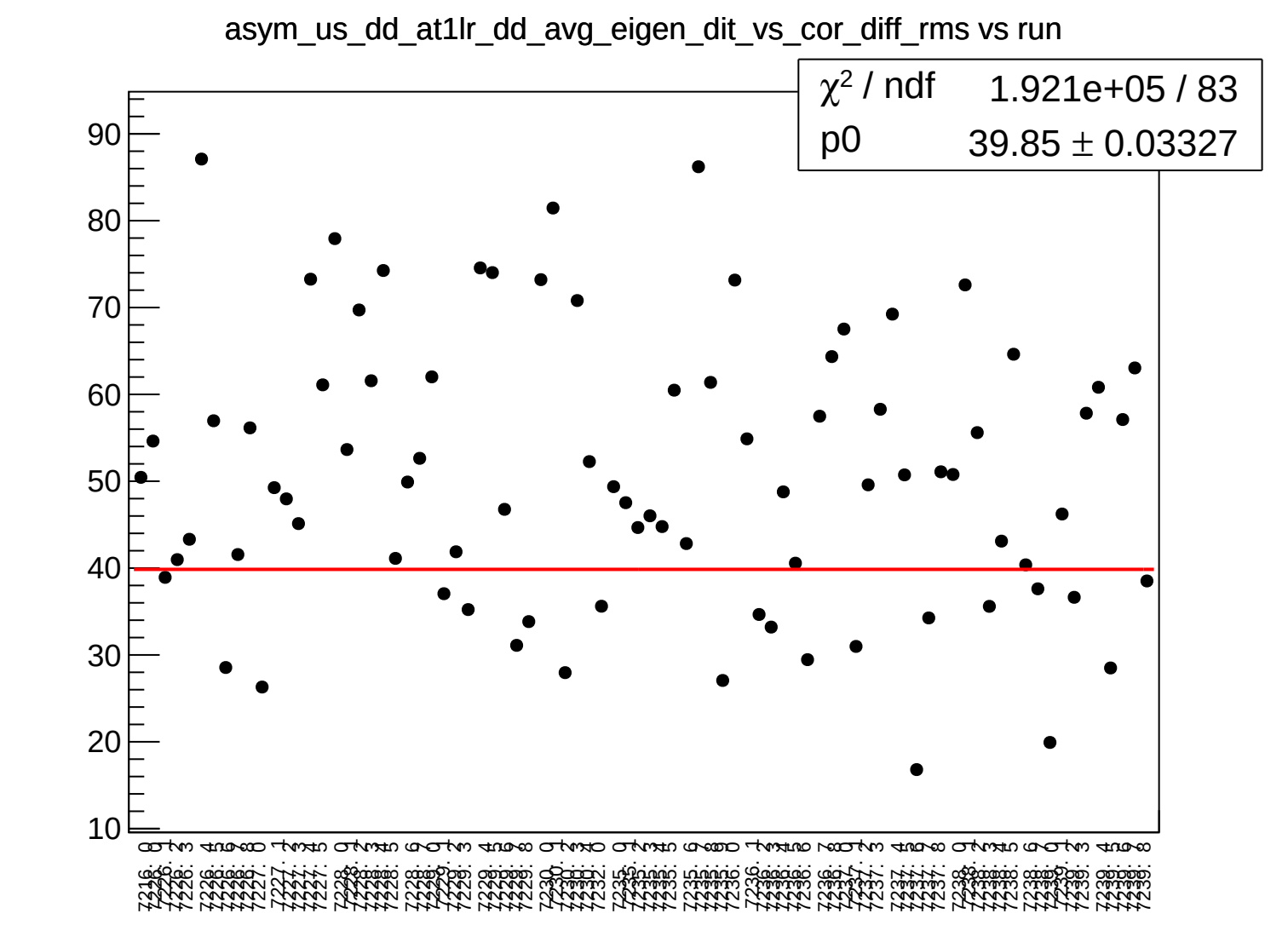

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.921e+05 / 83
p0 39.85 ± 0.03327
90
80
70
60
50
40
30
20
10

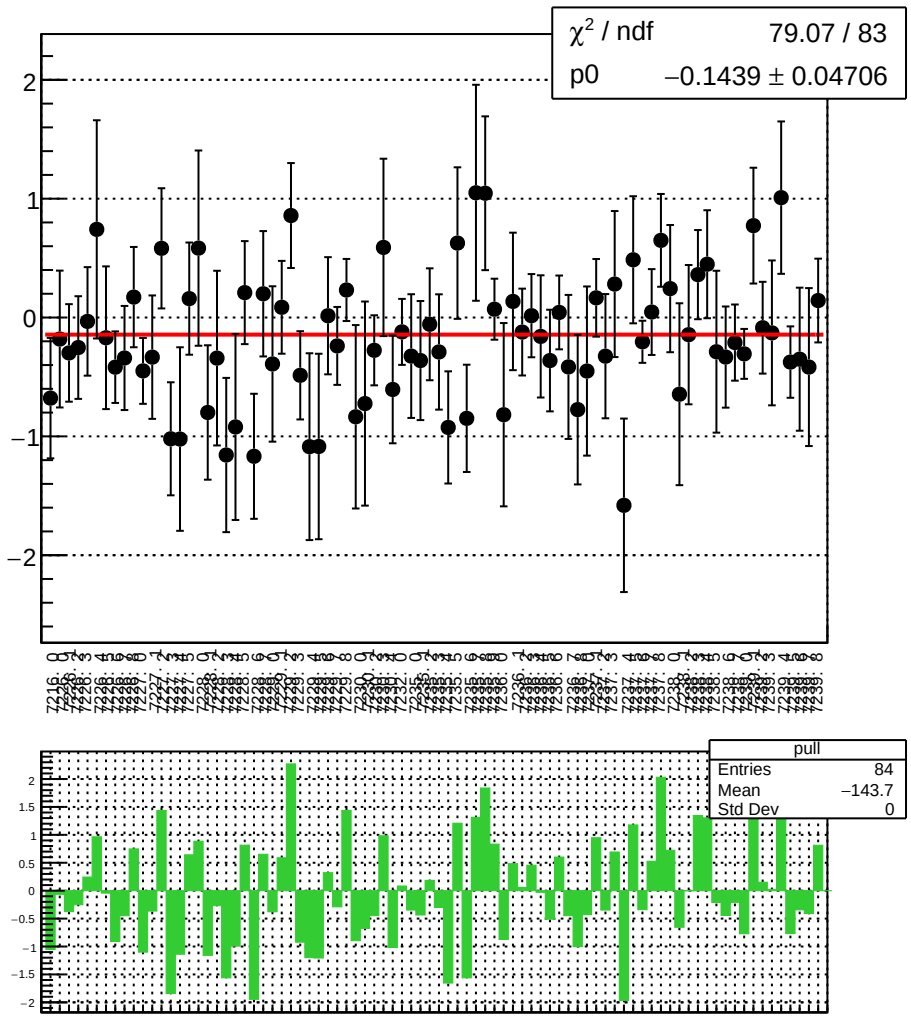

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 105.5 / 83
p0 −5.611e−07 ± 2.488e−06
pull
Entries 84
Mean 46.42
Std Dev 0

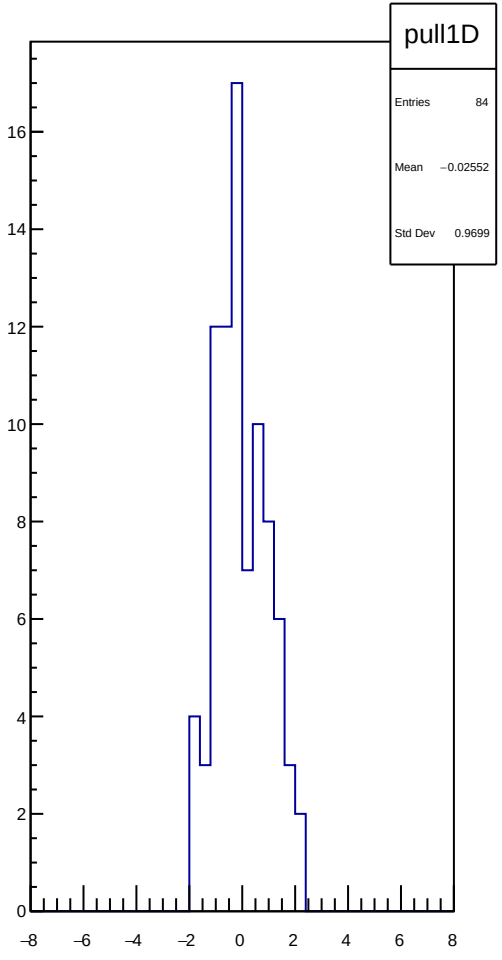

pull1D
Entries 84
Mean −0.08702
Std Dev 1.117

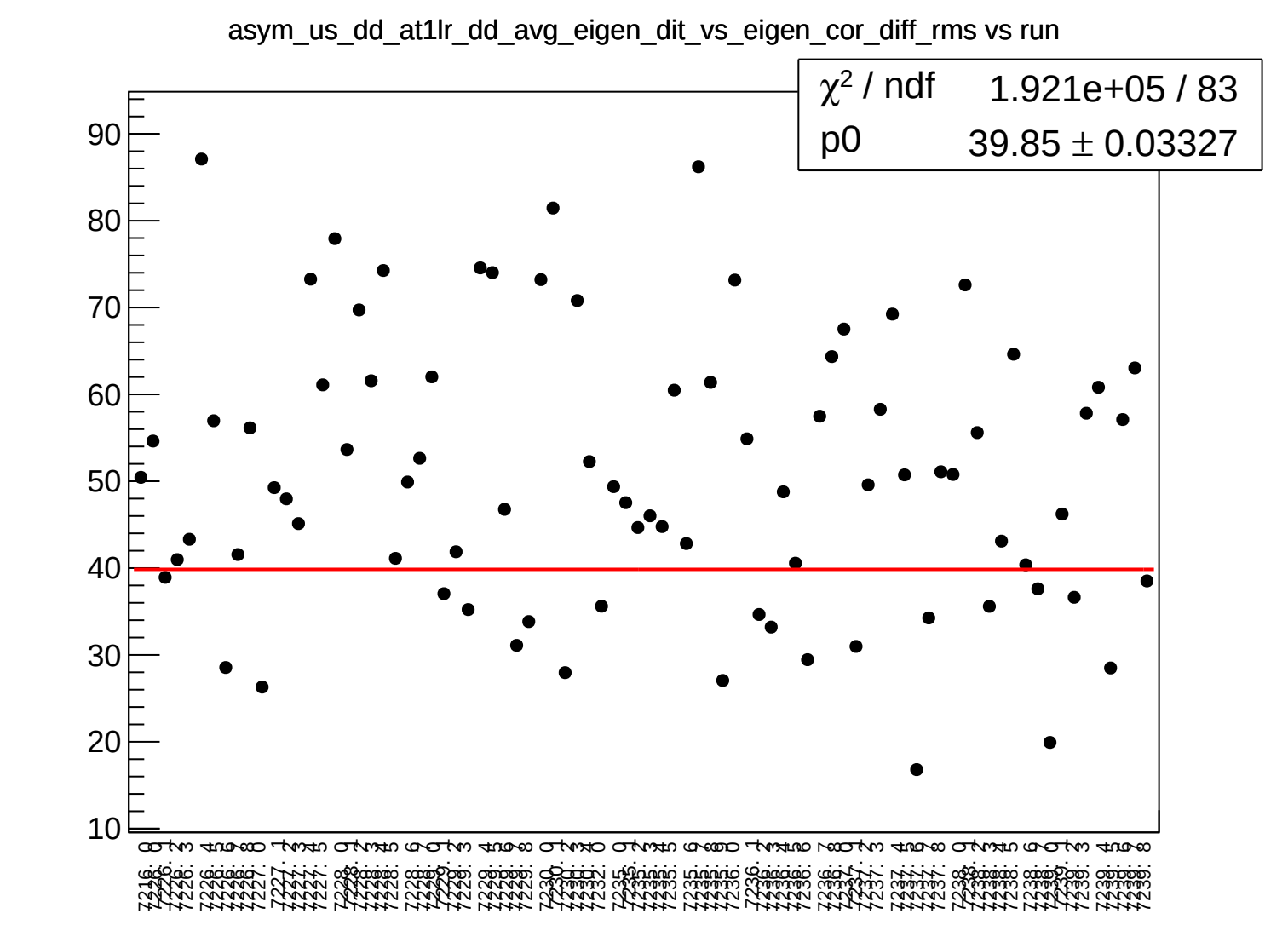

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.813e+05 / 83
p0 0.00204 ± 1.759e−06
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005

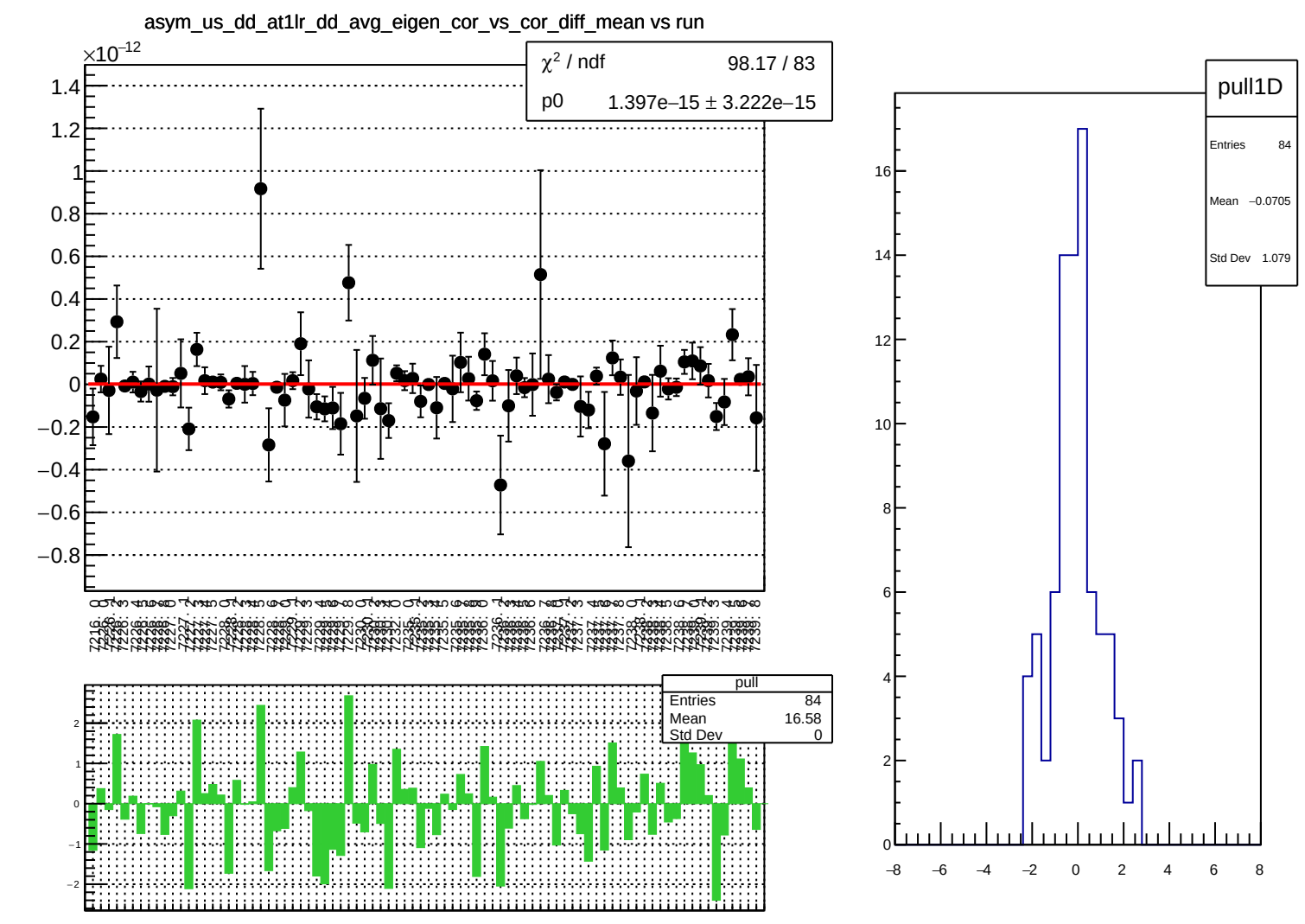

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.07 / 83
p0 −0.1439 ± 0.04706
pull
Entries 84
Mean −143.7
Std Dev 0
pull1D
Entries 84
Mean −0.02552
Std Dev 0.9699

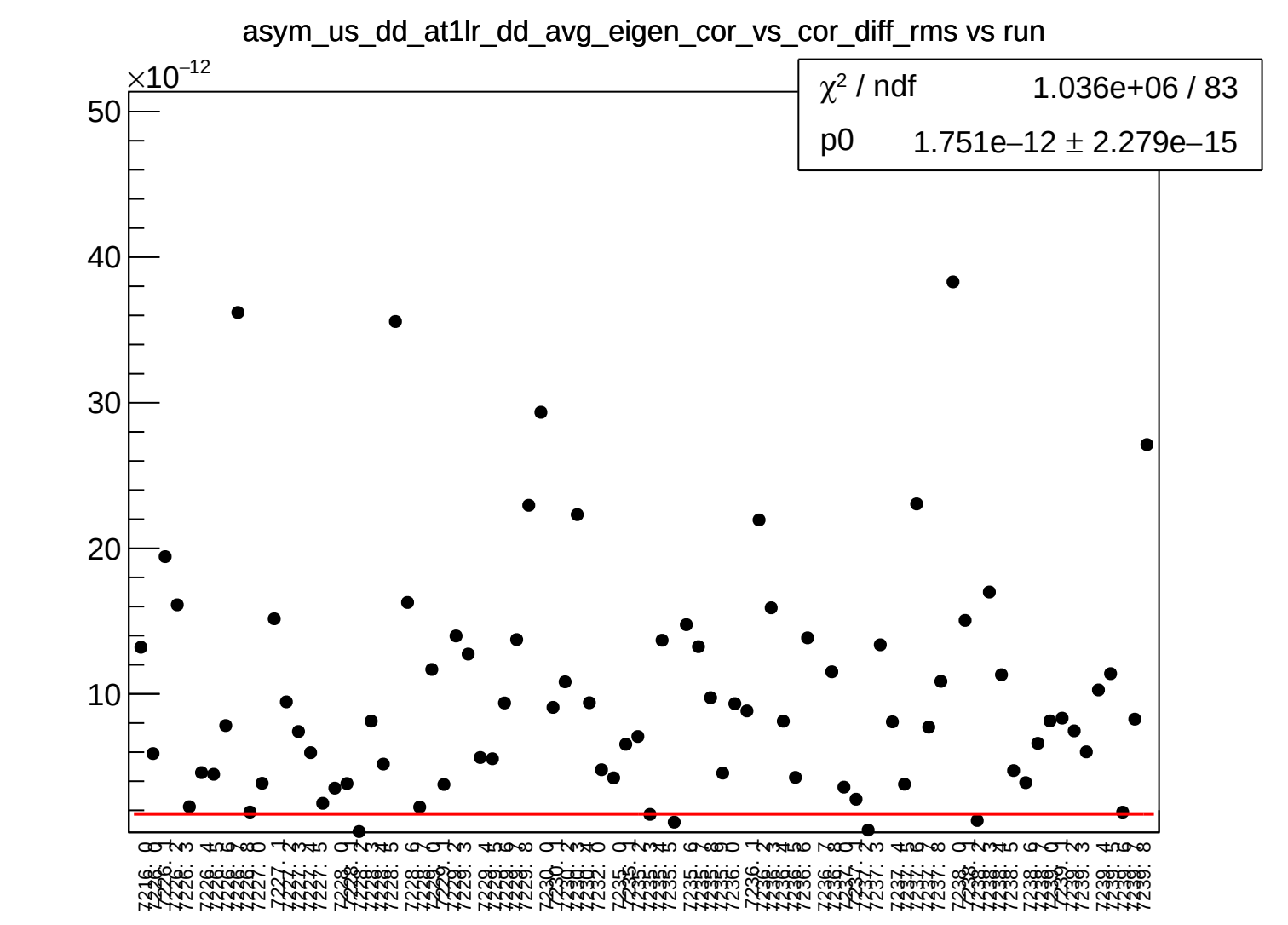

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.921e+05 / 83
p0 39.85 ± 0.03327
90
80
70
60
50
40
30
20
10

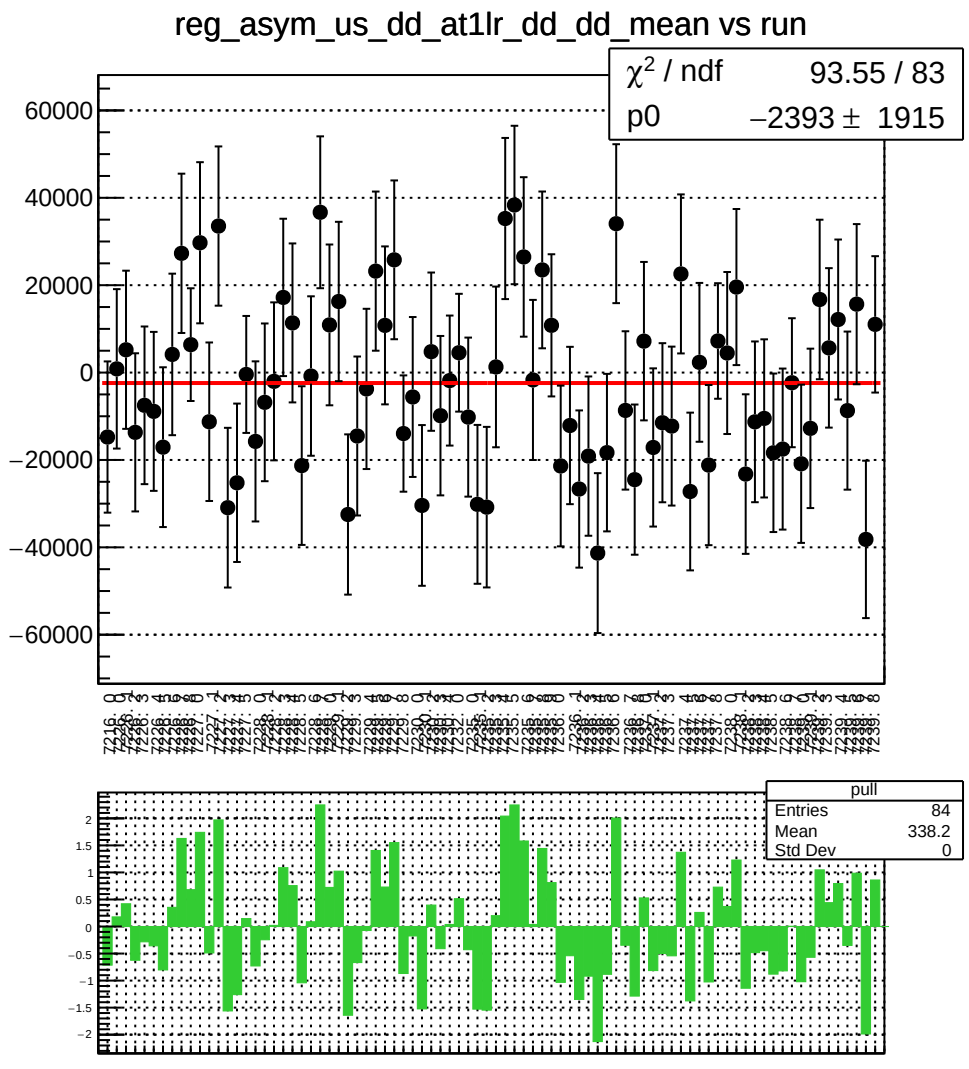

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.07 / 83
p0 −0.1439 ± 0.04706
pull
Entries 84
Mean −143.7
Std Dev 0

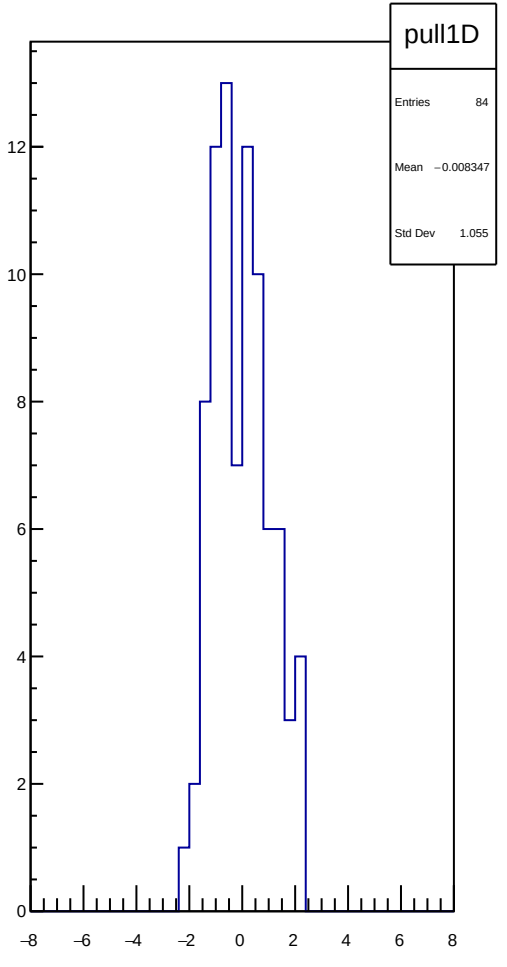

pull1D
Entries 84
Mean −0.02552
Std Dev 0.9699

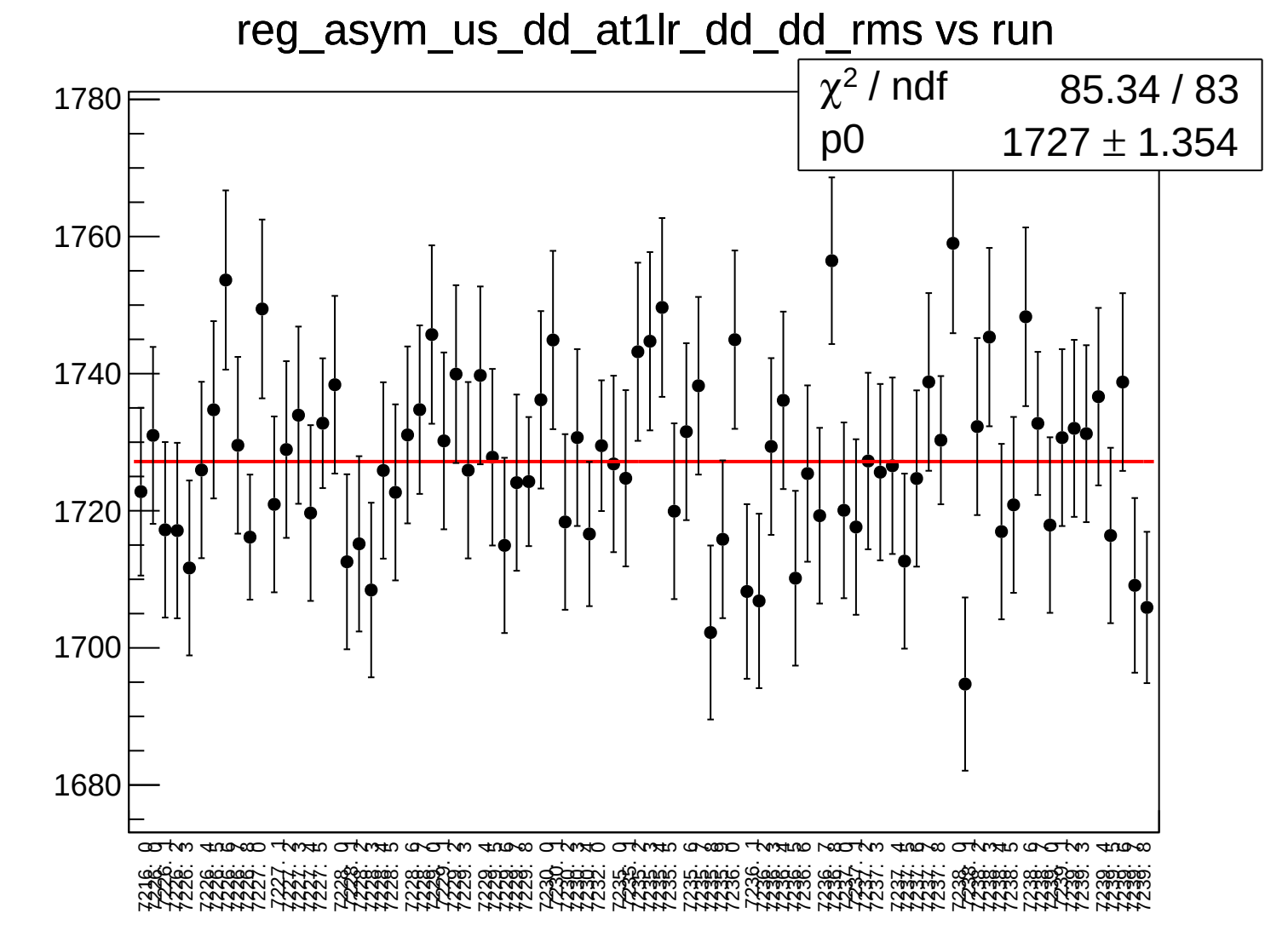

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.921e+05 / 83
p0 39.85 ± 0.03327
90
80
70
60
50
40
30
20
10

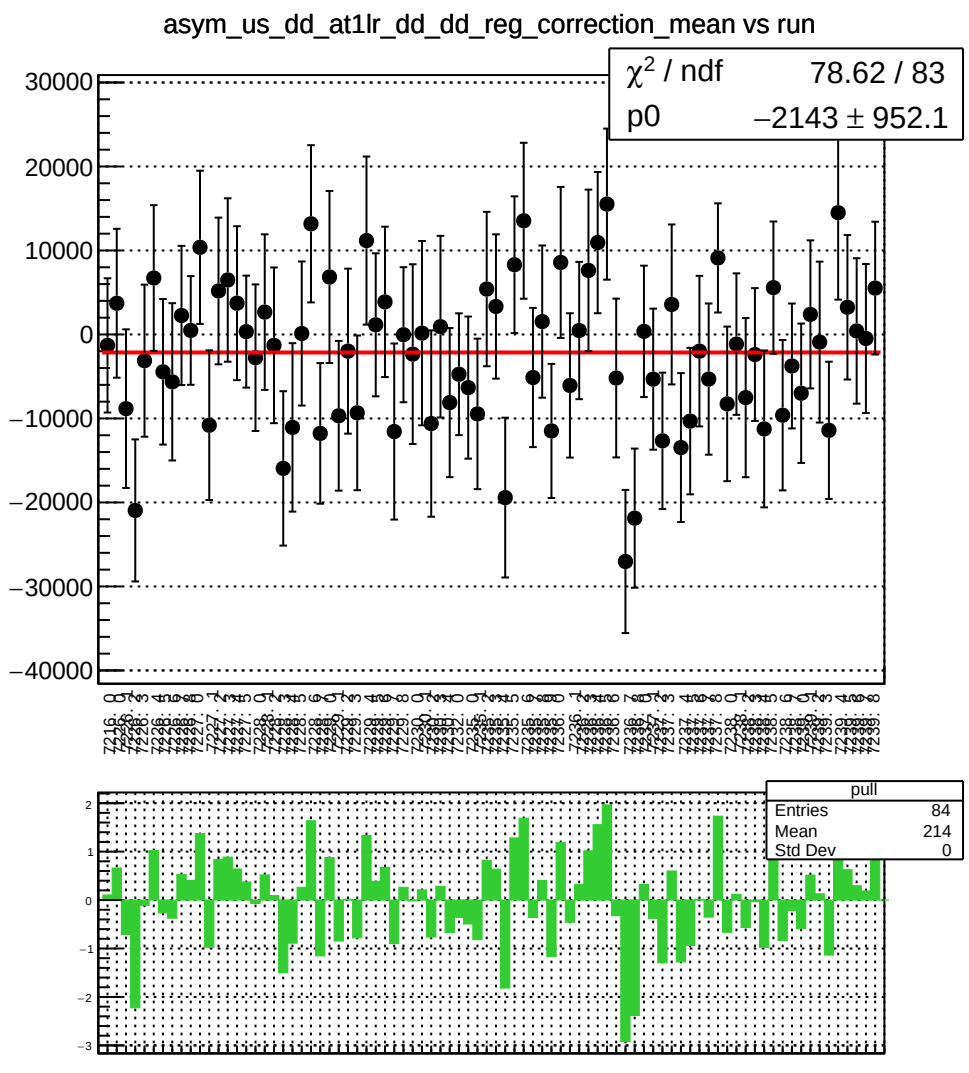

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 98.17 / 83
p0 1.397e−15 ± 3.222e−15
pull
Entries 84
Mean 16.58
Std Dev 0
pull1D
Entries 84
Mean −0.0705
Std Dev 1.079

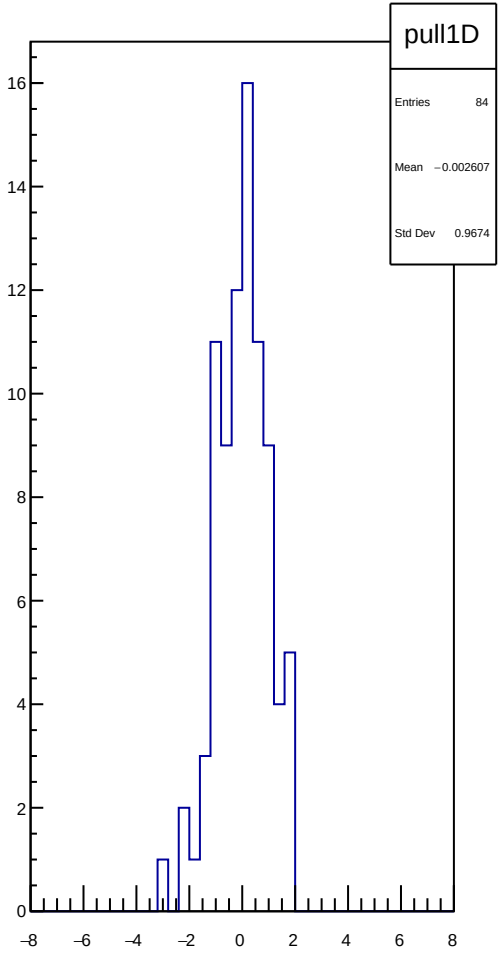

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.036e+06 / 83
p0 1.751e−12 ± 2.279e−15
50
40
30
20
10

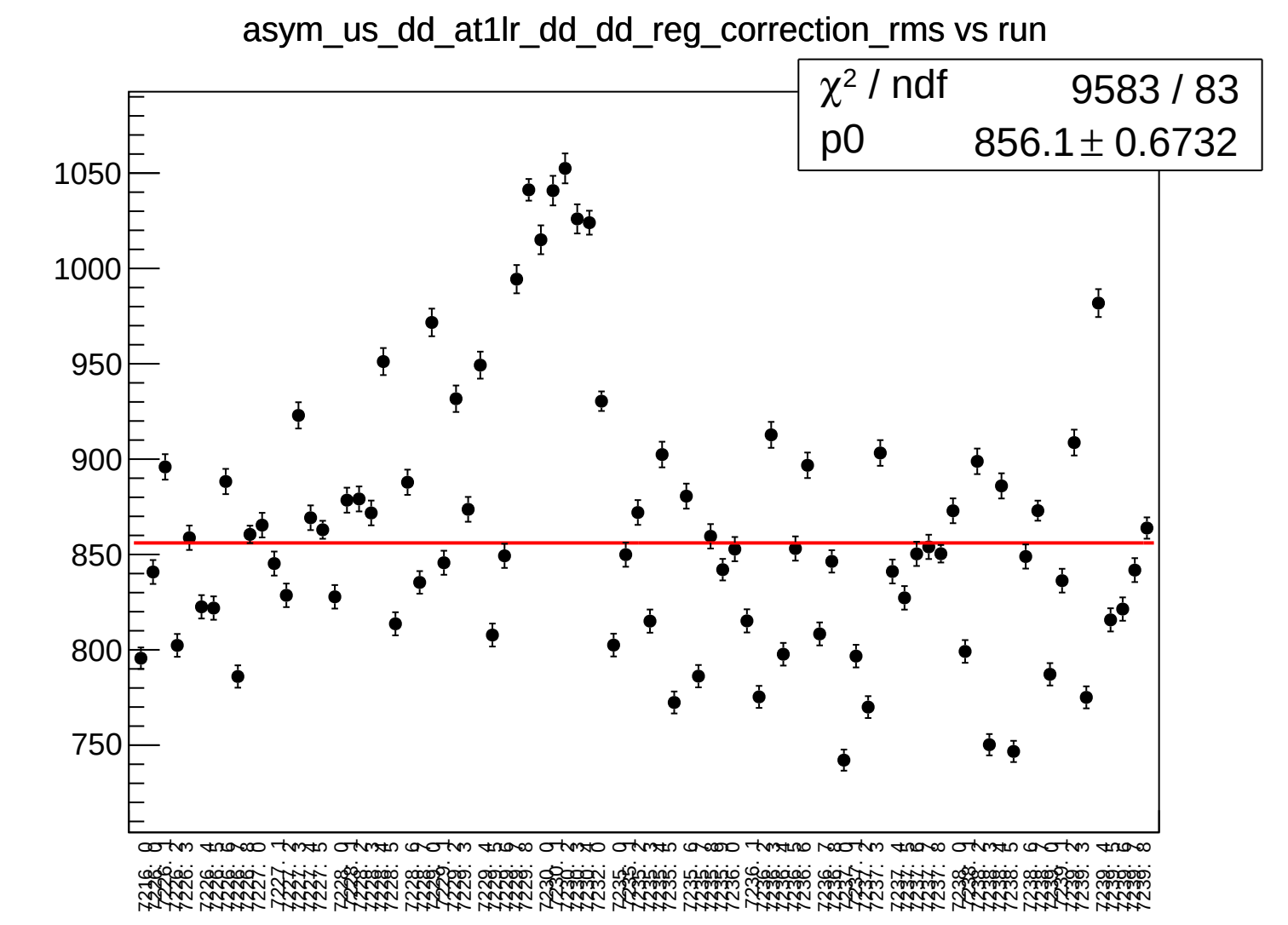

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 93.55 / 83
p0 −2393 ± 1915
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 338.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

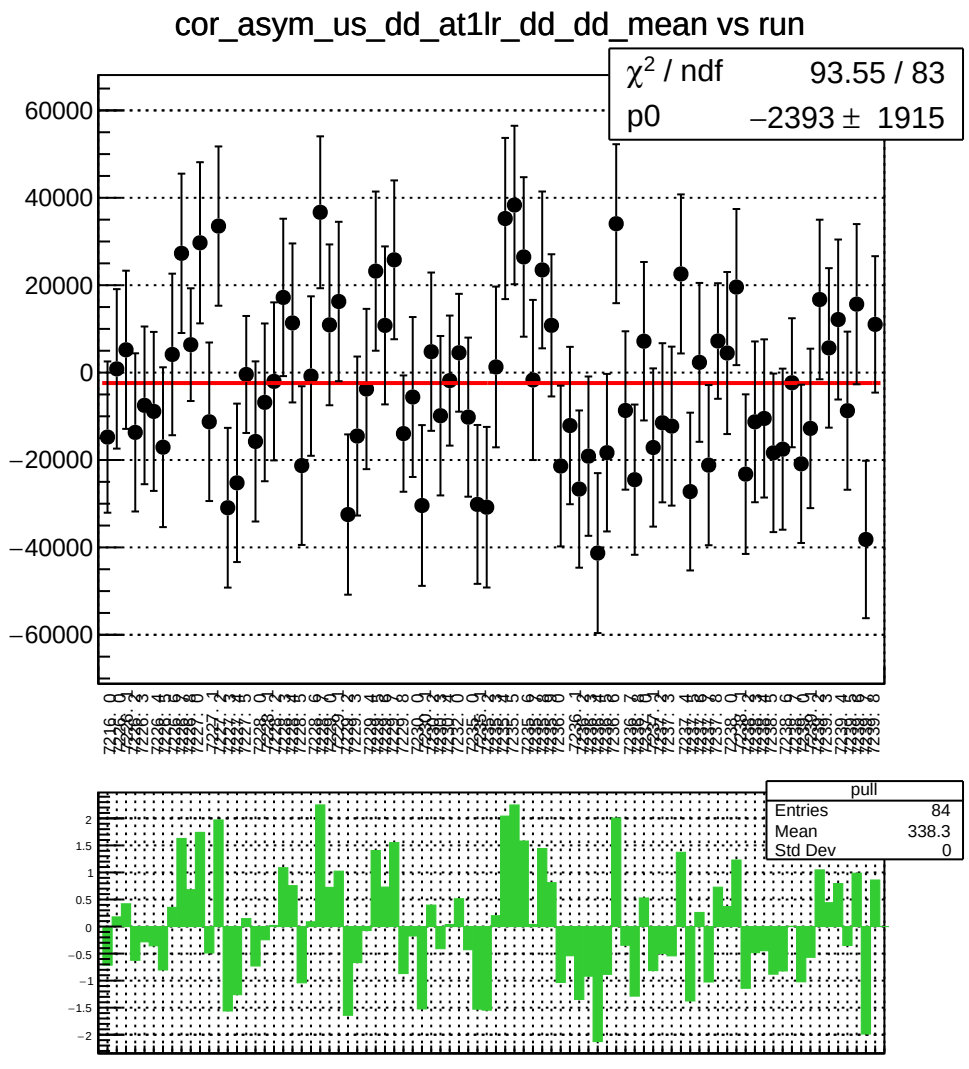

pull1D
Entries 84
Mean −0.008347
Std Dev 1.055
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

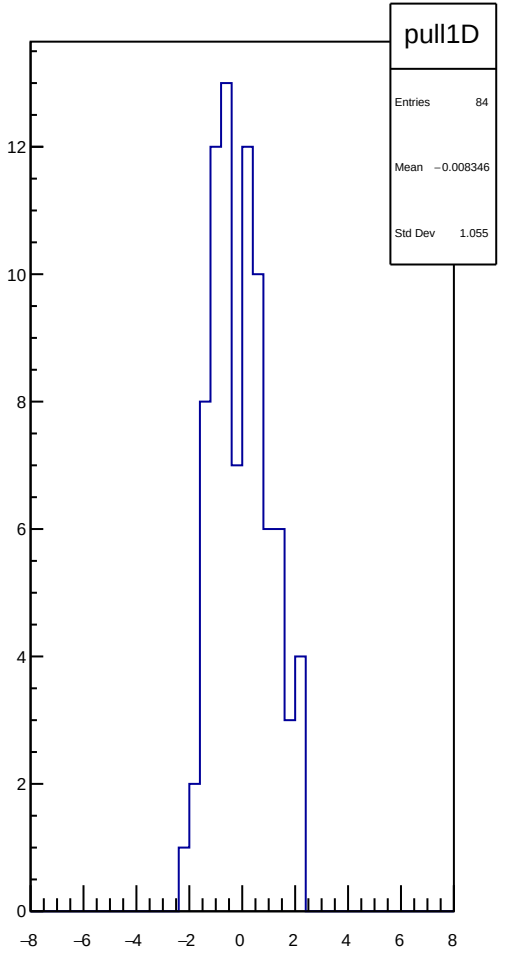

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 85.34 / 83
p0 1727 ± 1.354
1780
1760
1740
1720
1700
1680

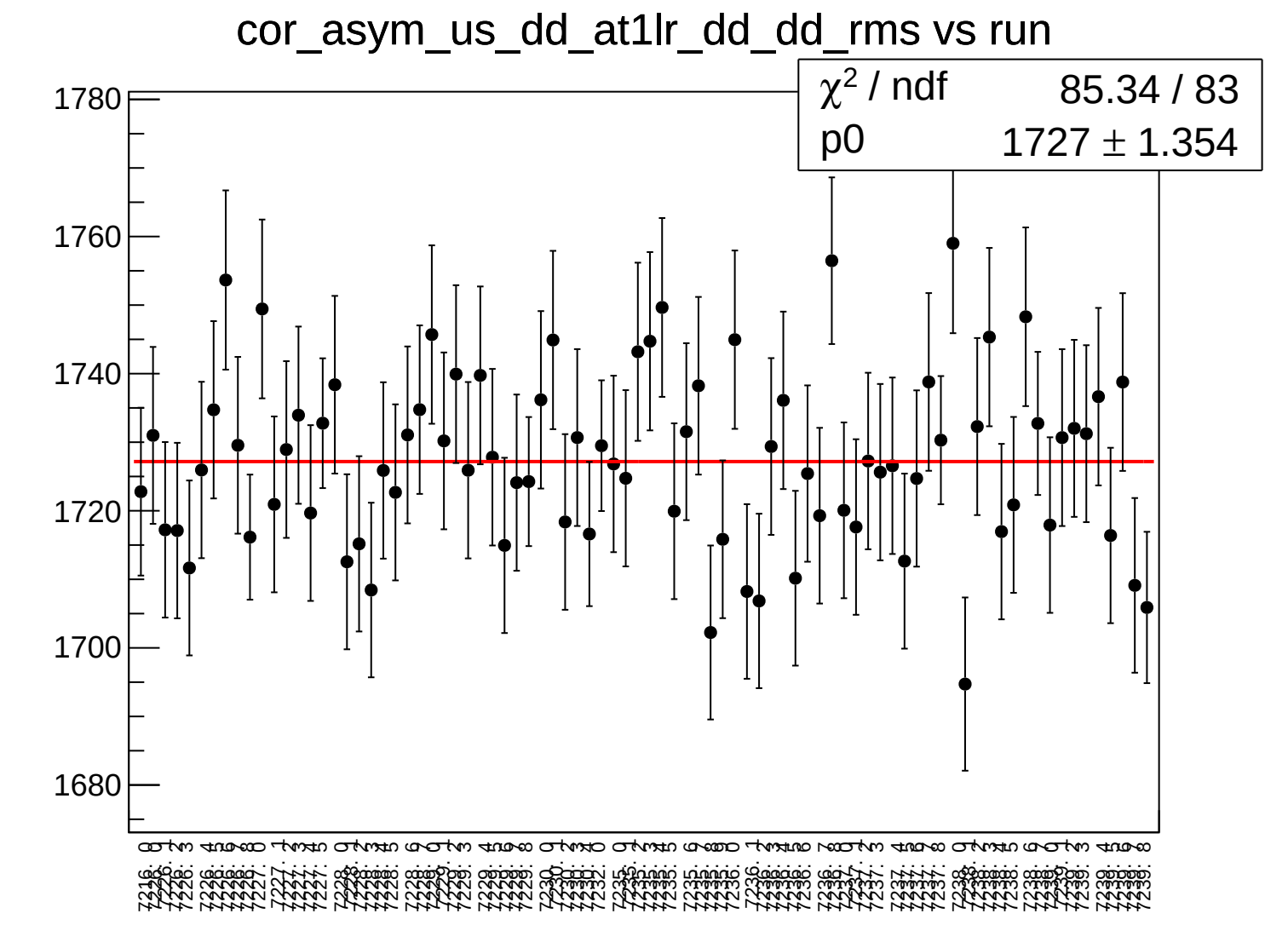

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 78.62 / 83
p0 −2143 ± 952.1
pull
Entries 84
Mean 214
Std Dev 0

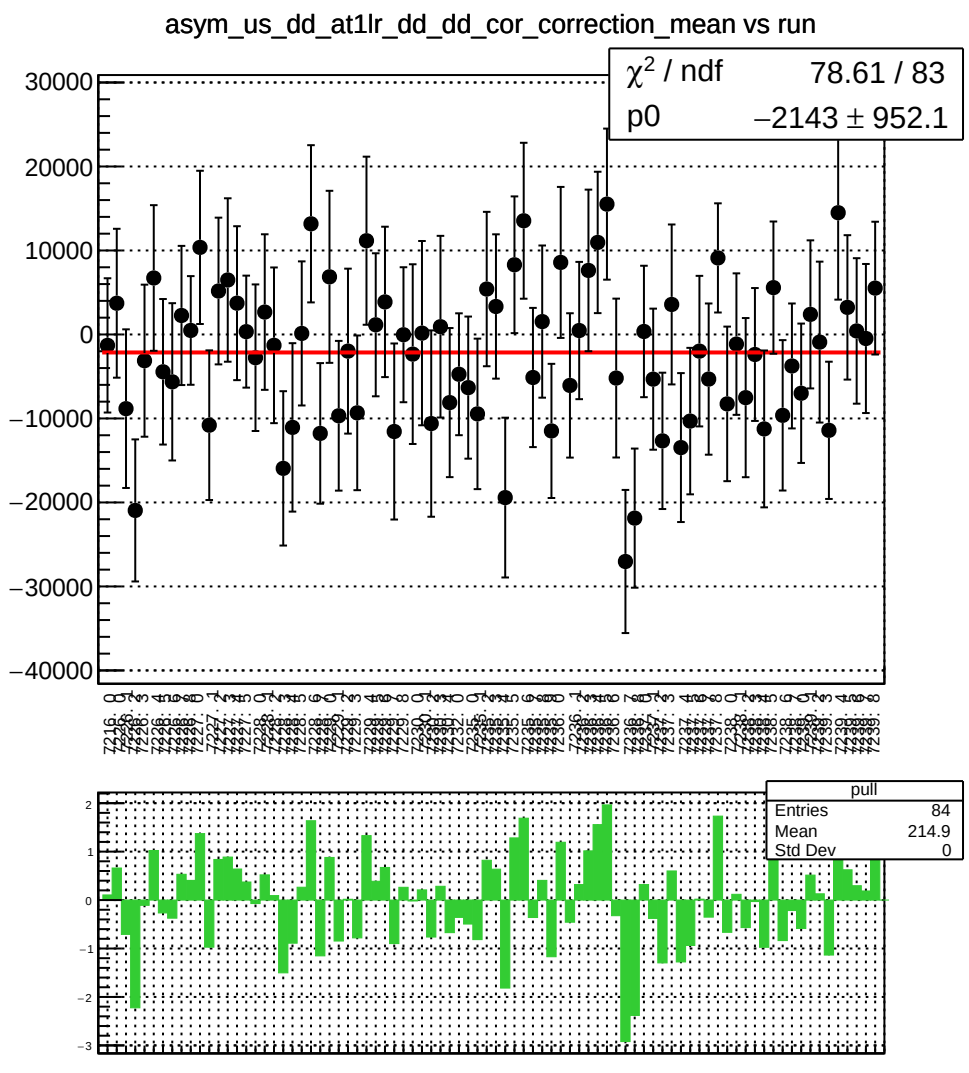

pull1D
Entries 84
Mean −0.002607
Std Dev 0.9674

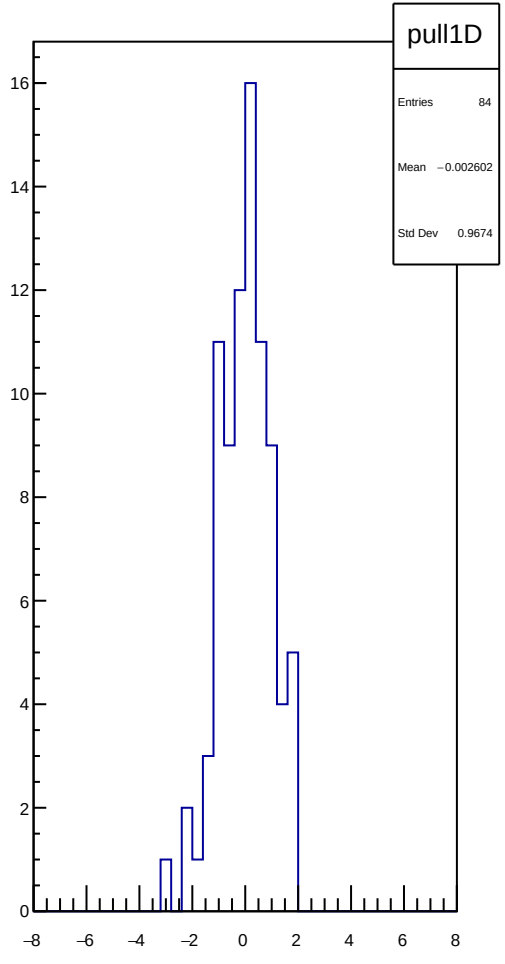

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 9583 / 83
p0 856.1 ± 0.6732
1050
1000
950
900
850
800
750

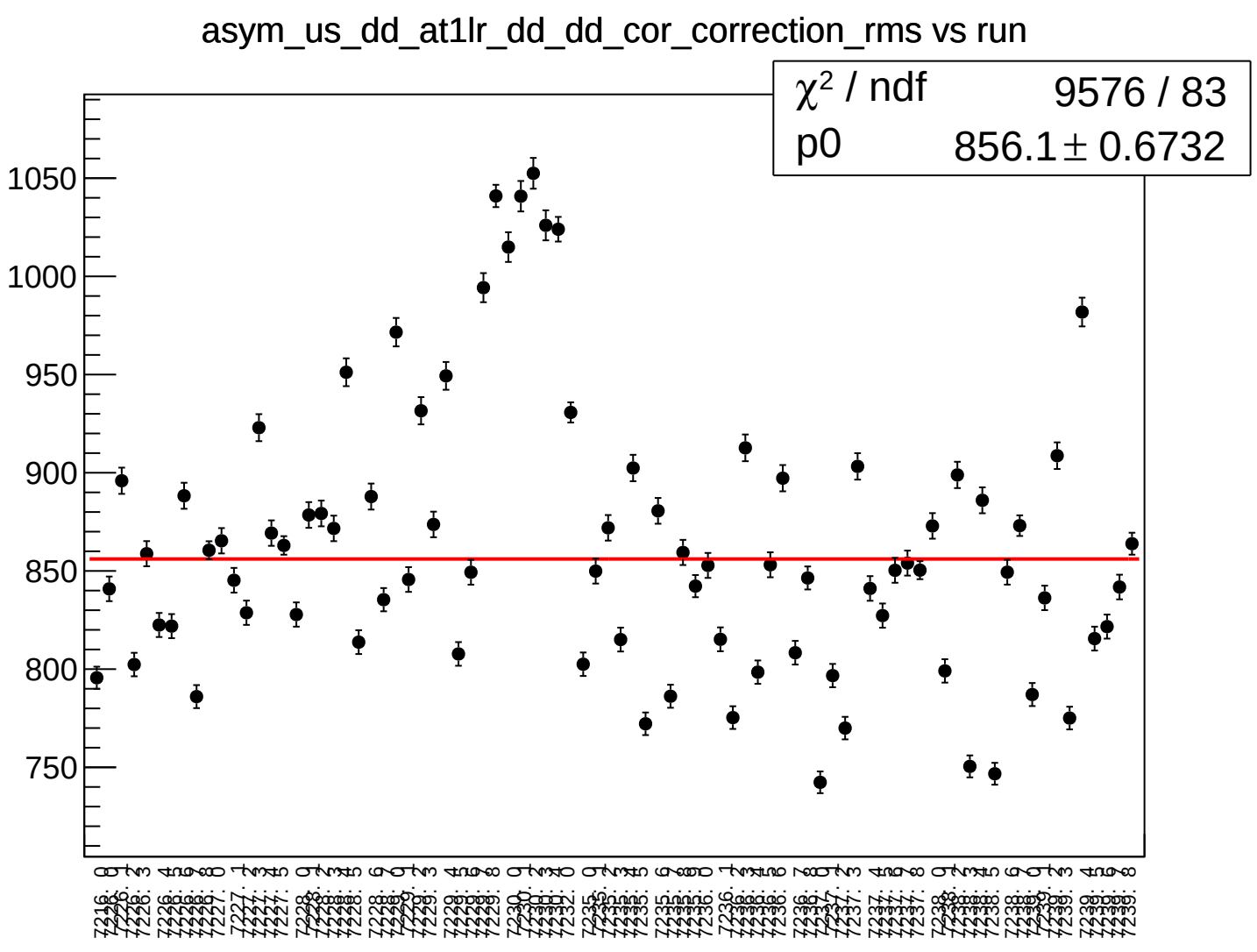

cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 93.55 / 83
p0 −2393 ± 1915
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 338.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

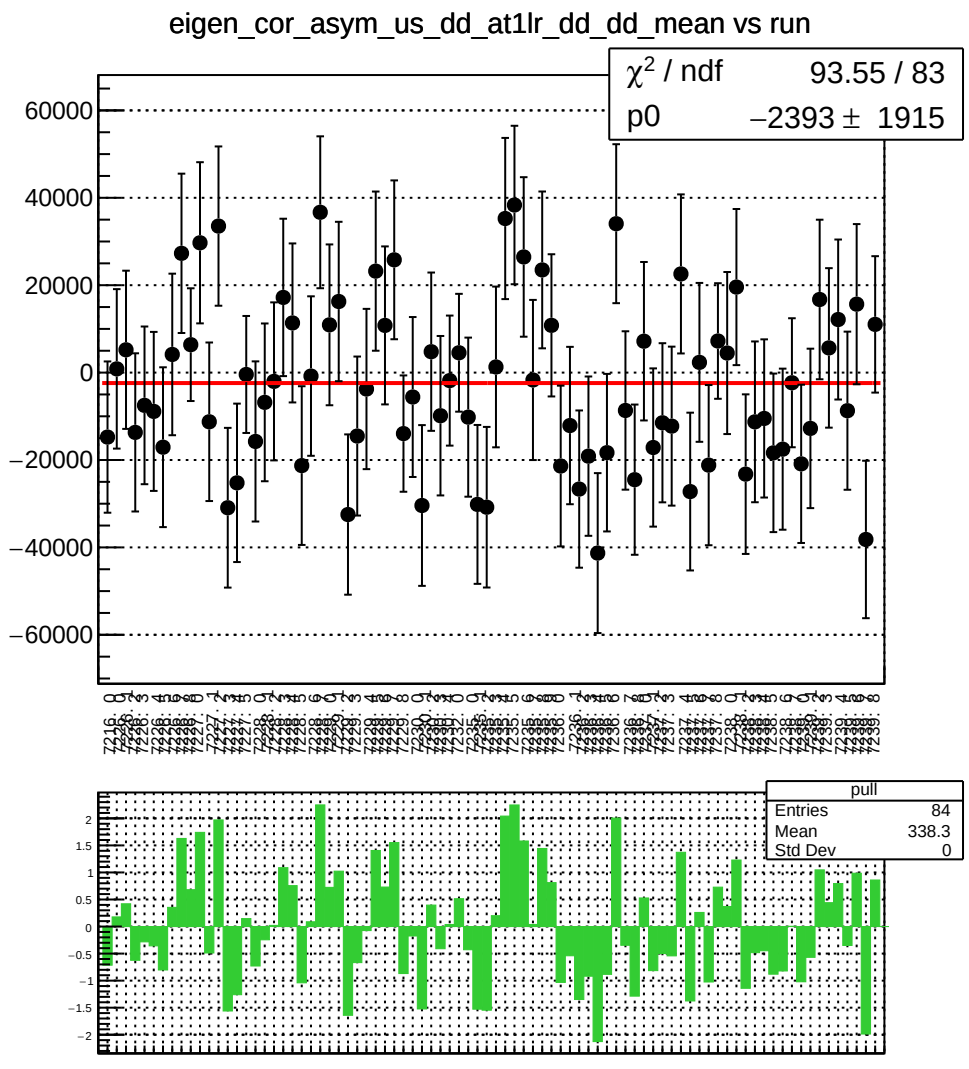

pull1D
Entries 84
Mean −0.008346
Std Dev 1.055
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

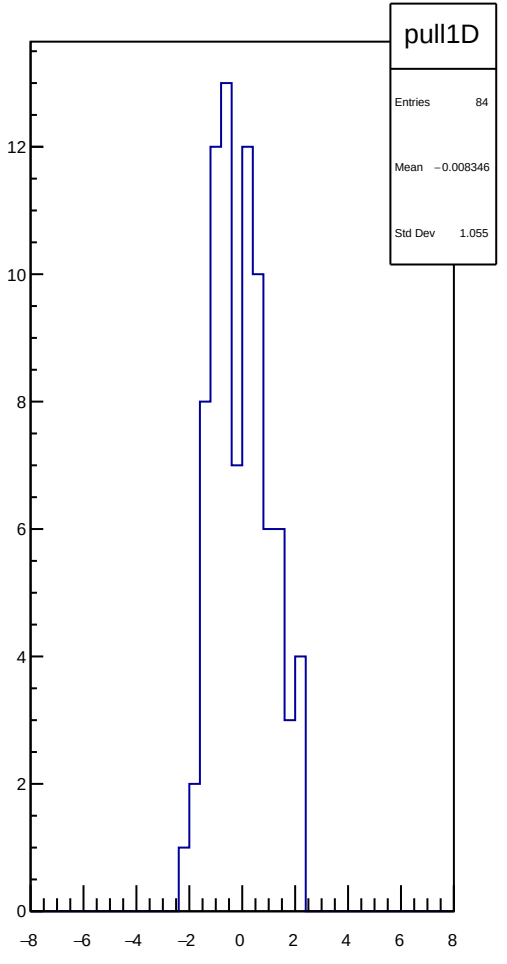

cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ^2 / ndf 85.34 / 83
p0 1727 ± 1.354
1780
1760
1740
1720
1700
1680

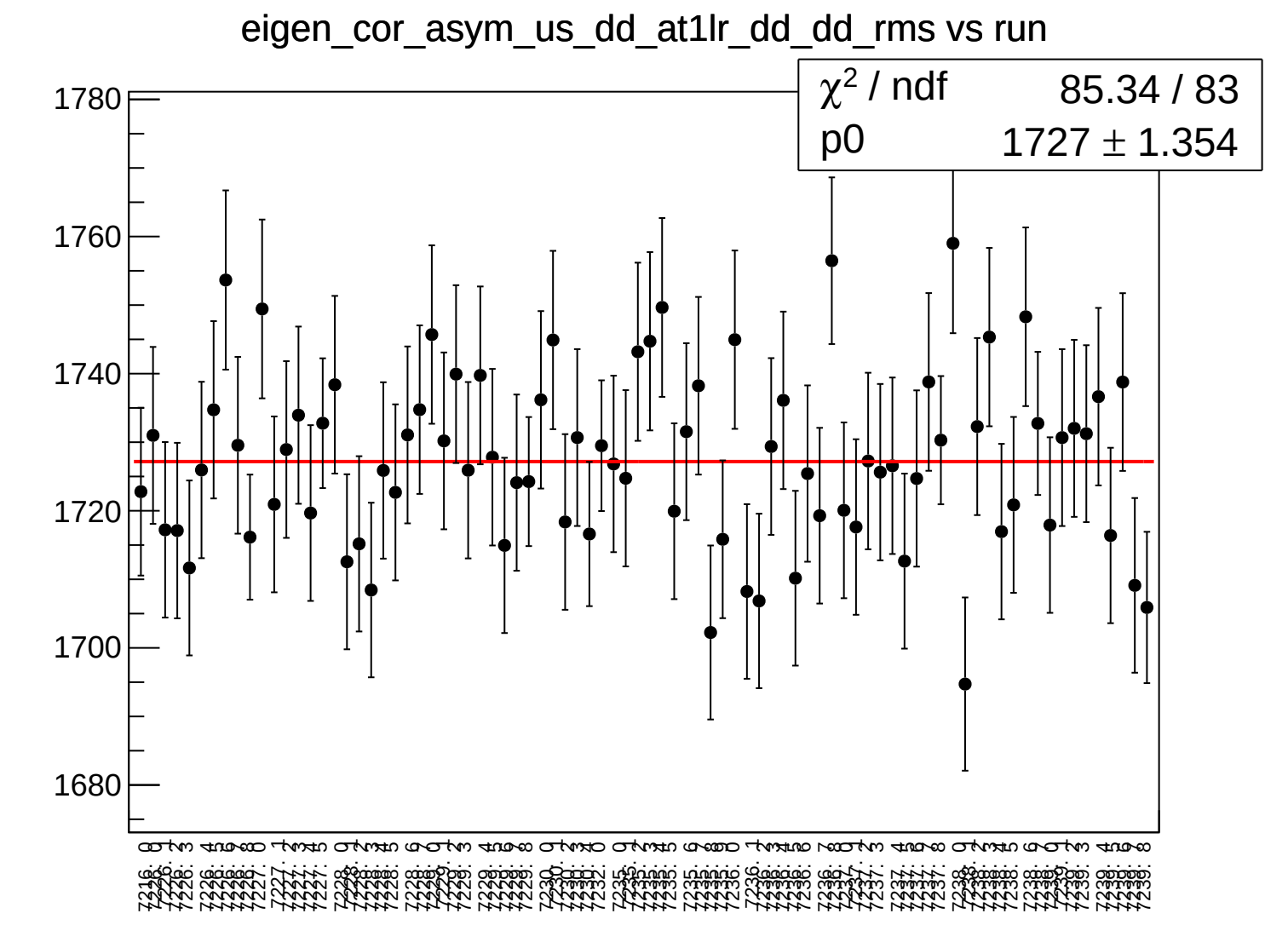

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ² / ndf 78.61 / 83
p0 −2143 ± 952.1
pull
Entries 84
Mean 214.9
Std Dev 0

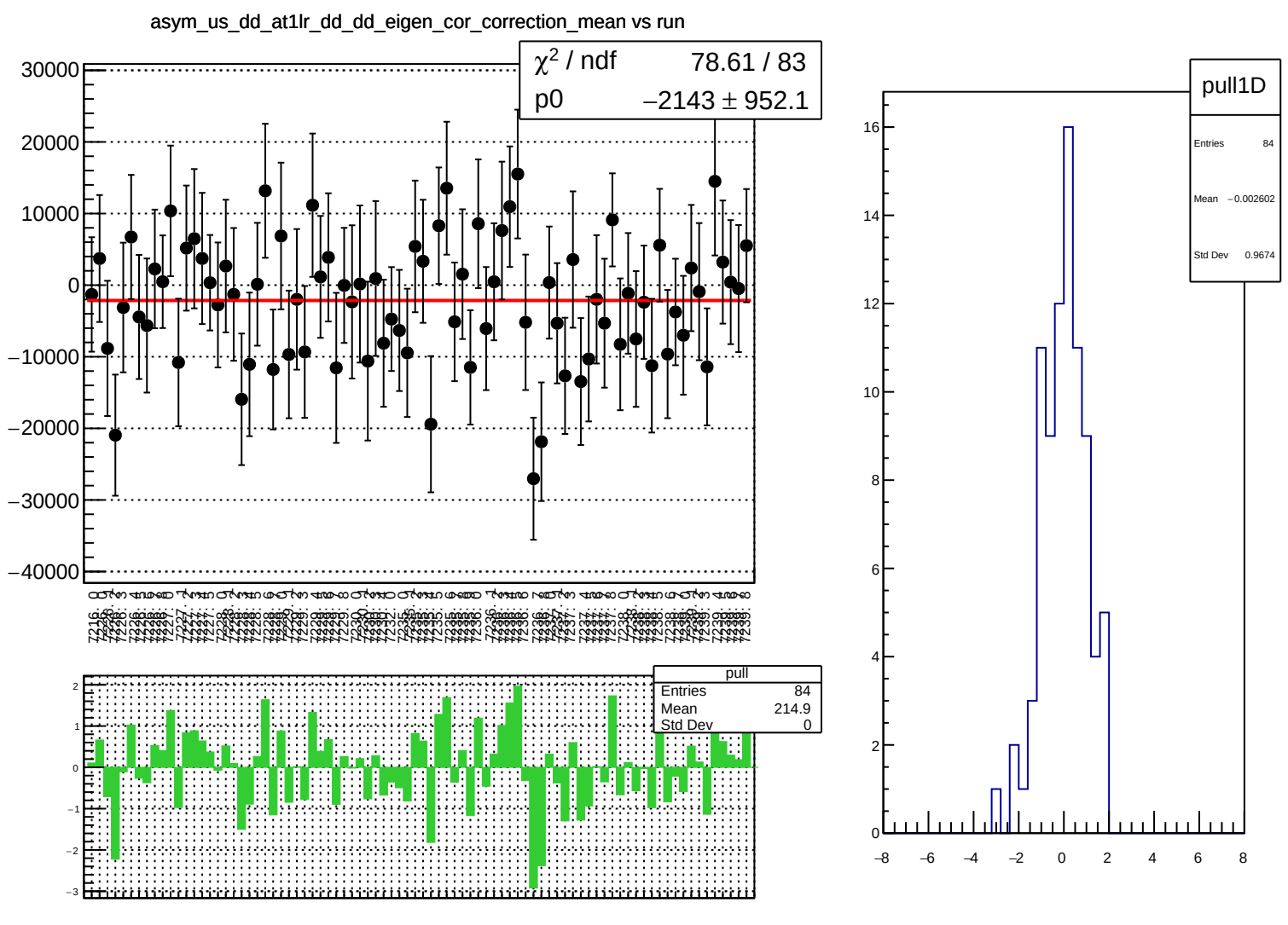

pull1D
Entries 84
Mean −0.002602
Std Dev 0.9674

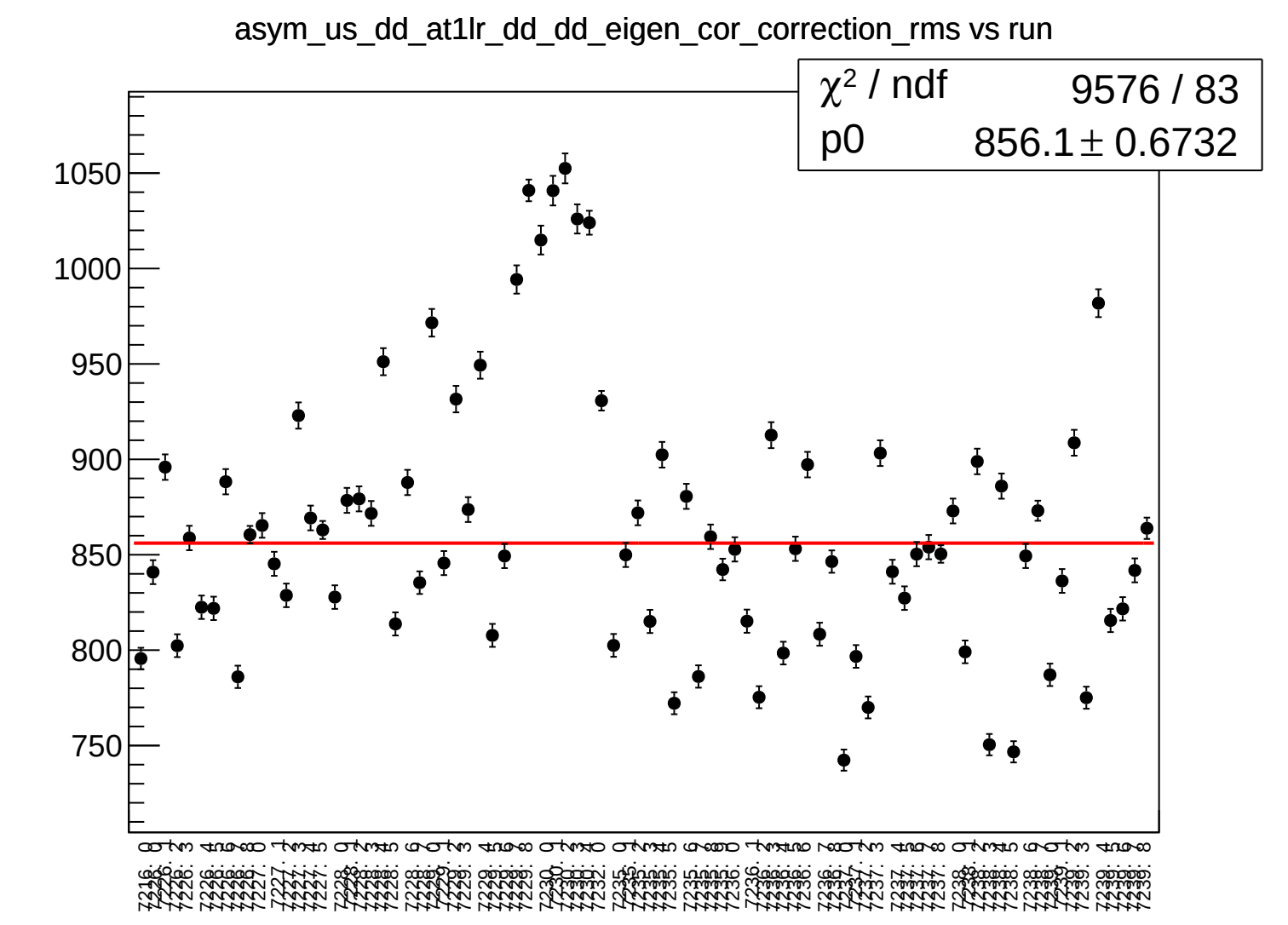

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 9576 / 83
p0 856.1 ± 0.6732
1050
1000
950
900
850
800
750

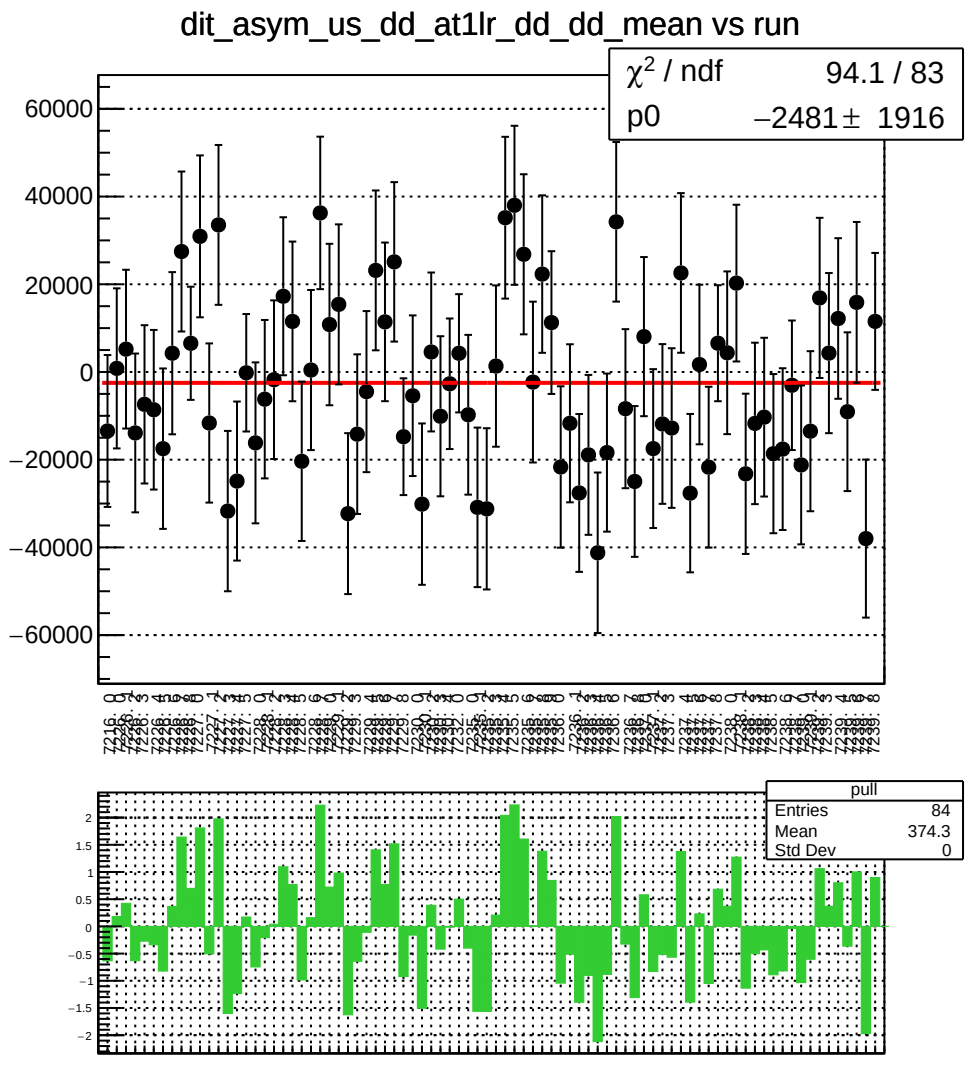

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 93.55 / 83
p0 −2393 ± 1915
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 338.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

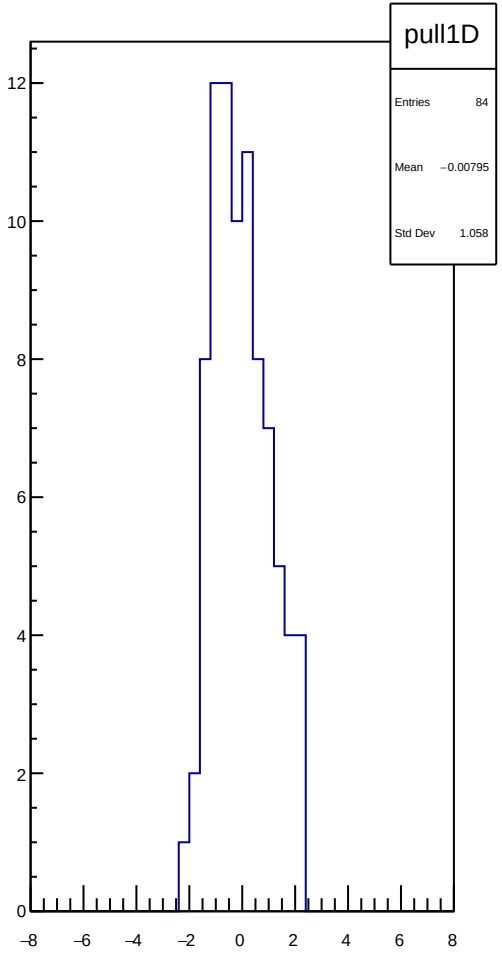

pull1D
Entries 84
Mean −0.008346
Std Dev 1.055
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

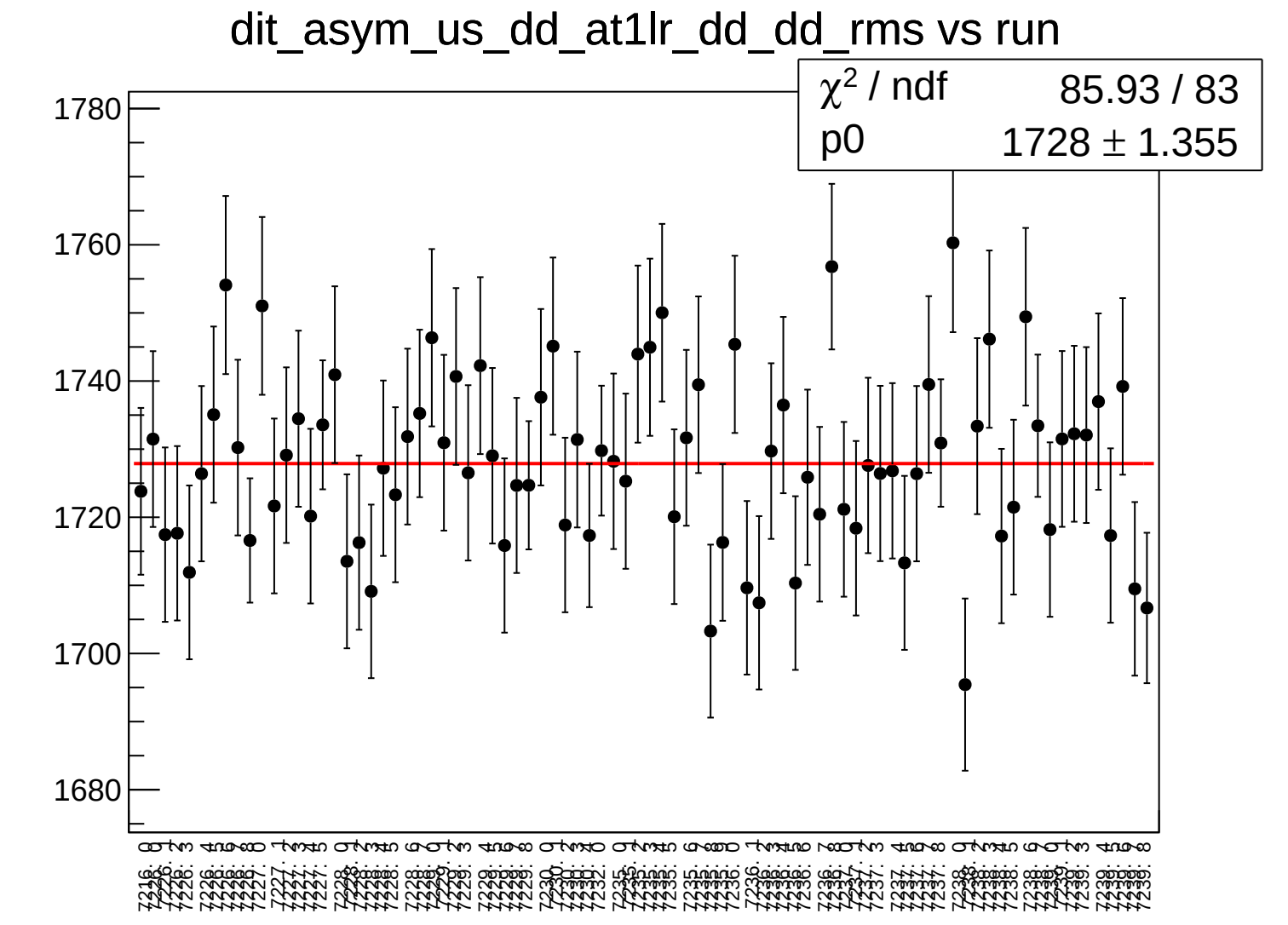

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 85.34 / 83
p0 1727 ± 1.354
1780
1760
1740
1720
1700
1680

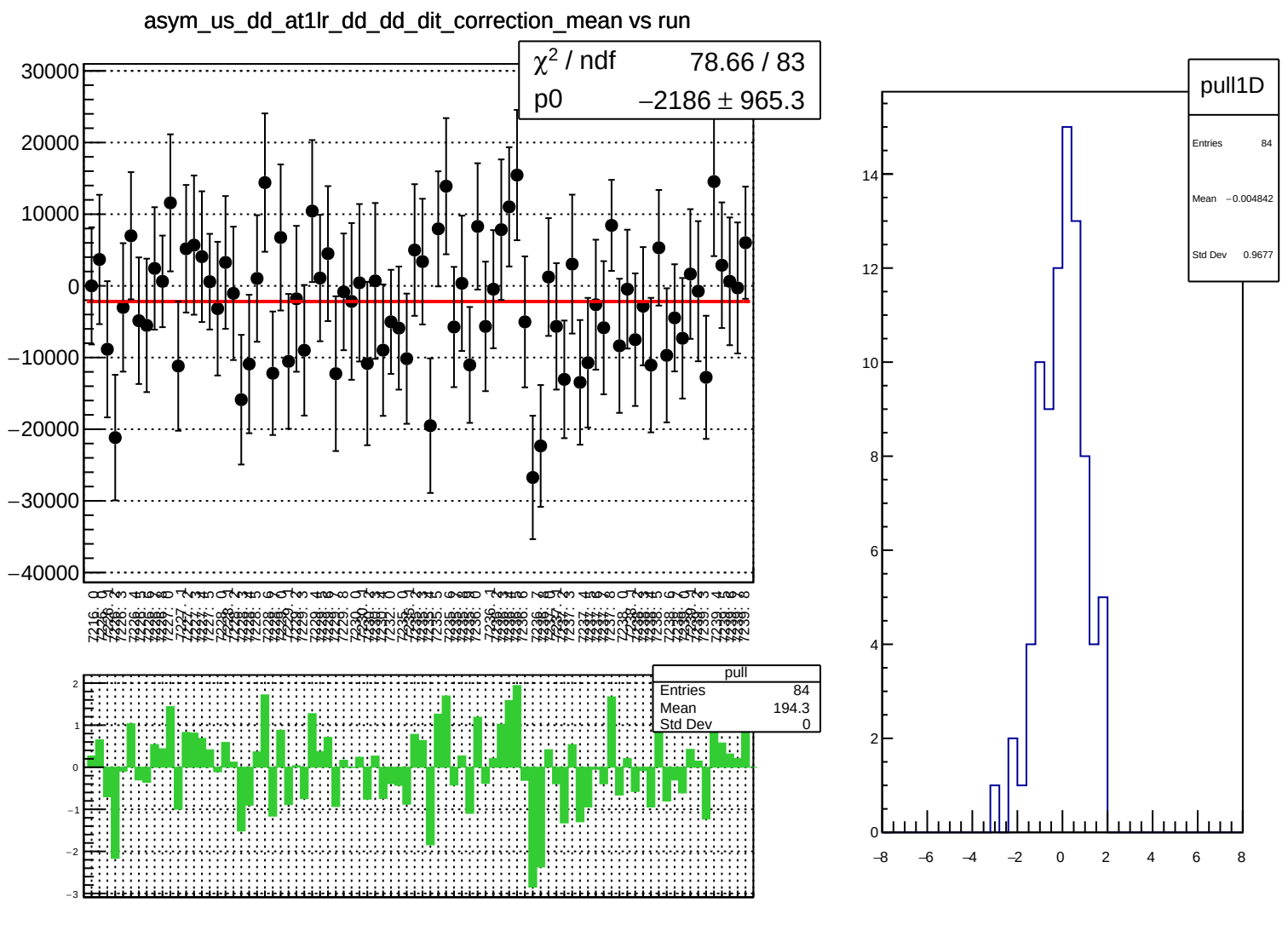

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 78.61 / 83
p0 −2143 ± 952.1
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 84
Mean 214.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean −0.002602
Std Dev 0.9674
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

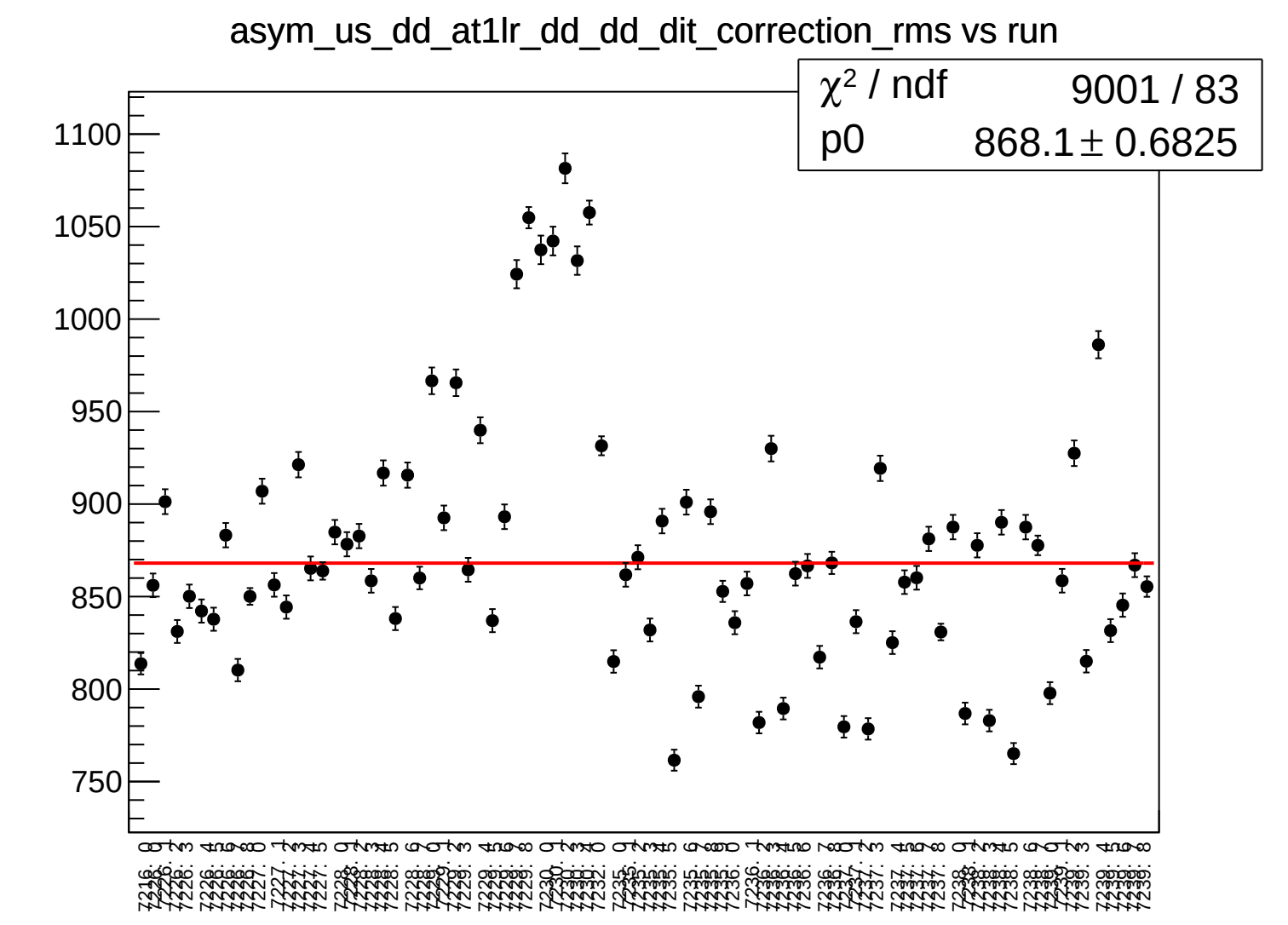

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 9576 / 83
p0 856.1 ± 0.6732
1050
1000
950
900
850
800
750

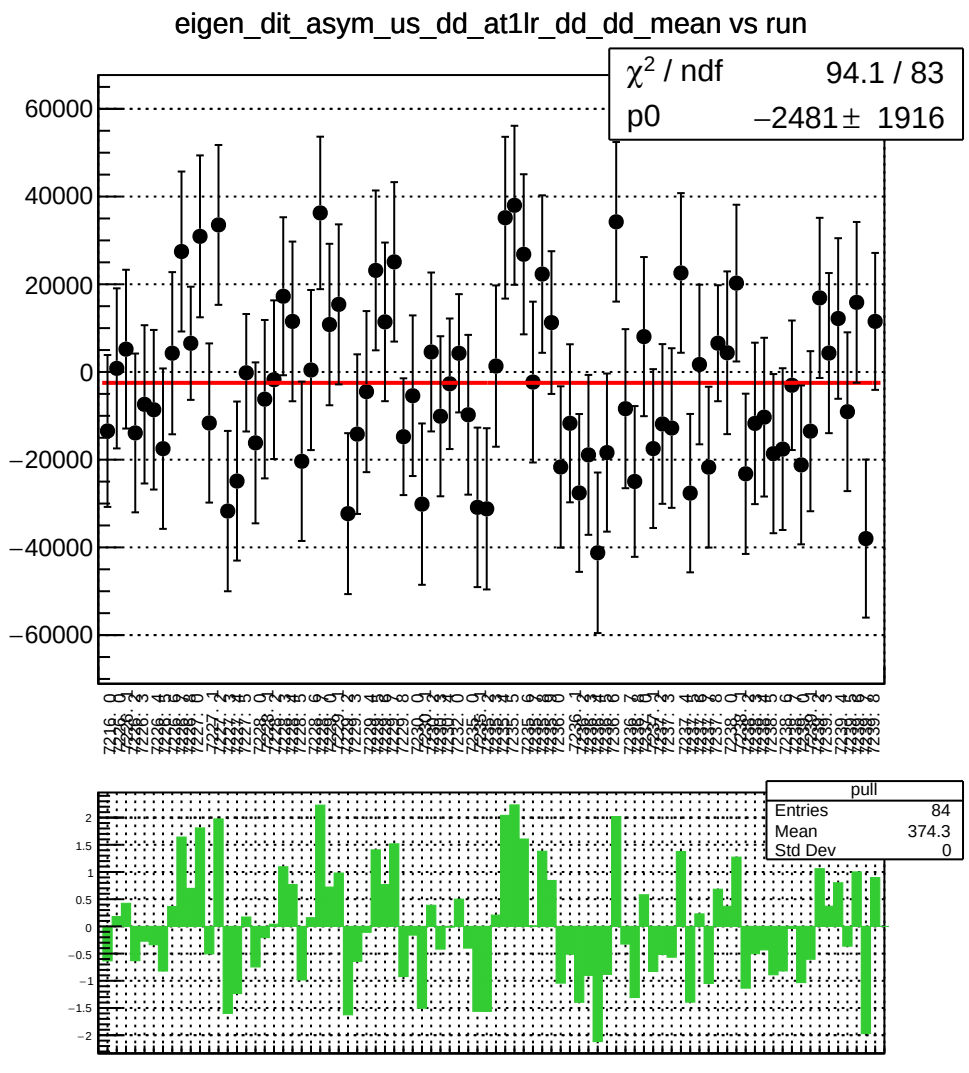

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 94.1 / 83
p0 −2481 ± 1916
pull
Entries 84
Mean 374.3
Std Dev 0

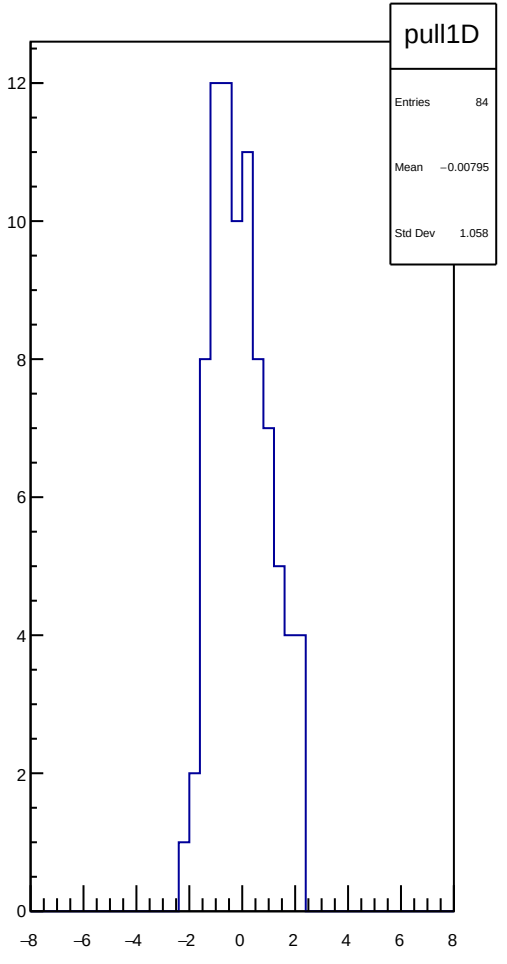

pull1D
Entries 84
Mean −0.00795
Std Dev 1.058

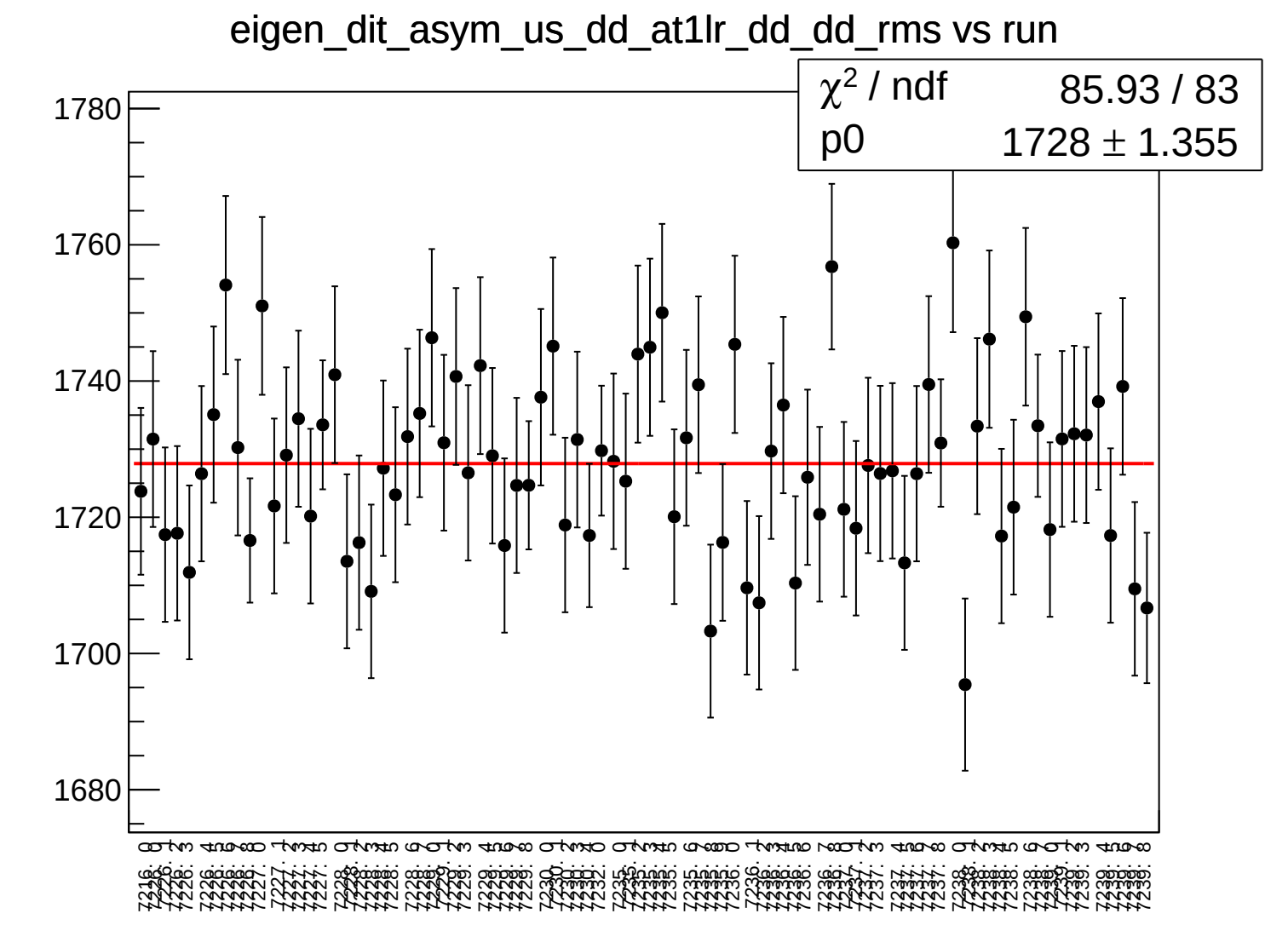

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 85.93 / 83
p0 1728 ± 1.355
1780
1760
1740
1720
1700
1680

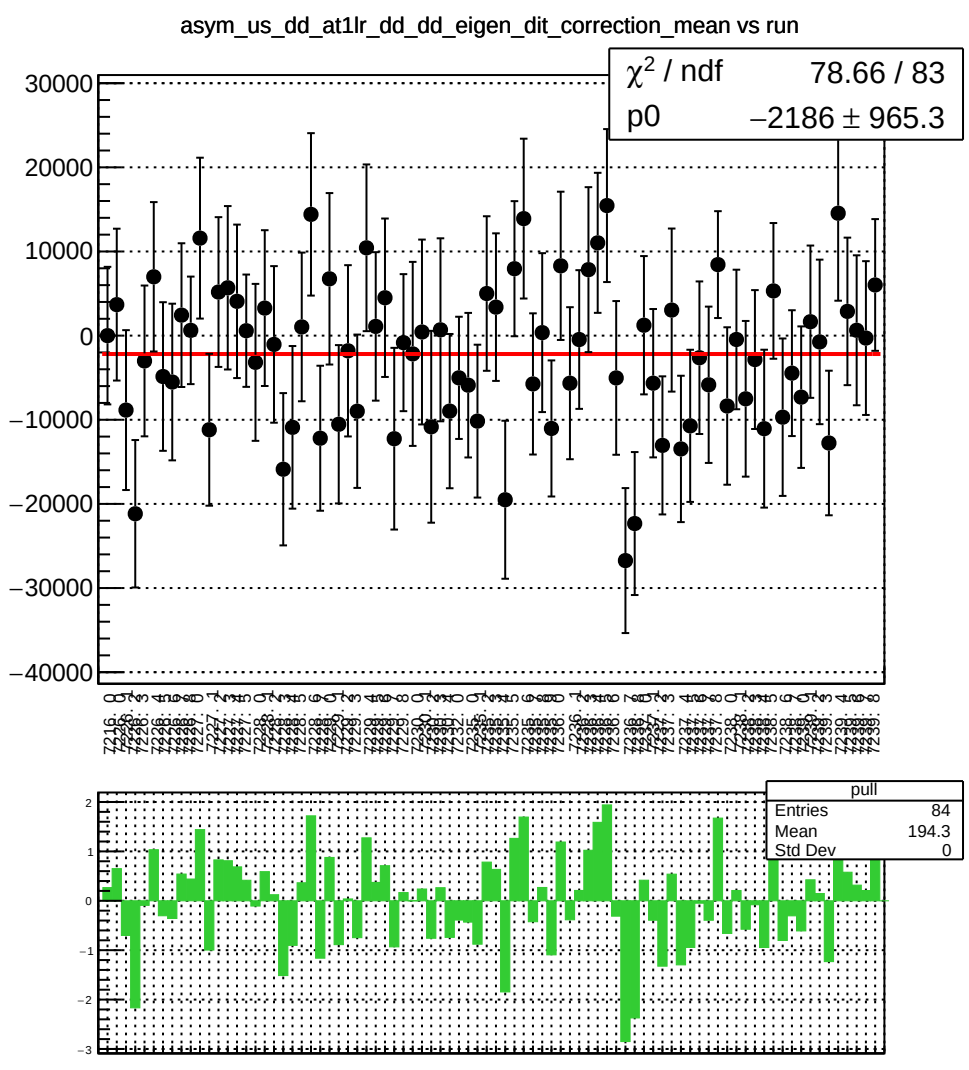

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
χ² / ndf 78.66 / 83
p0 −2186 ± 965.3
pull
Entries 84
Mean 194.3
Std Dev 0
pull1D
Entries 84
Mean −0.004842
Std Dev 0.9677

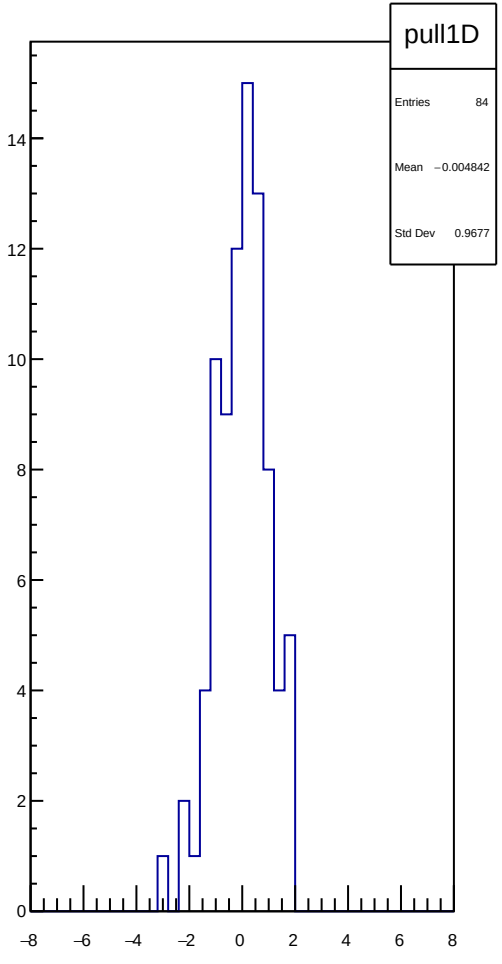

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 9001 / 83
p0 868.1 ± 0.6825
1100
1050
1000
950
900
850
800
750

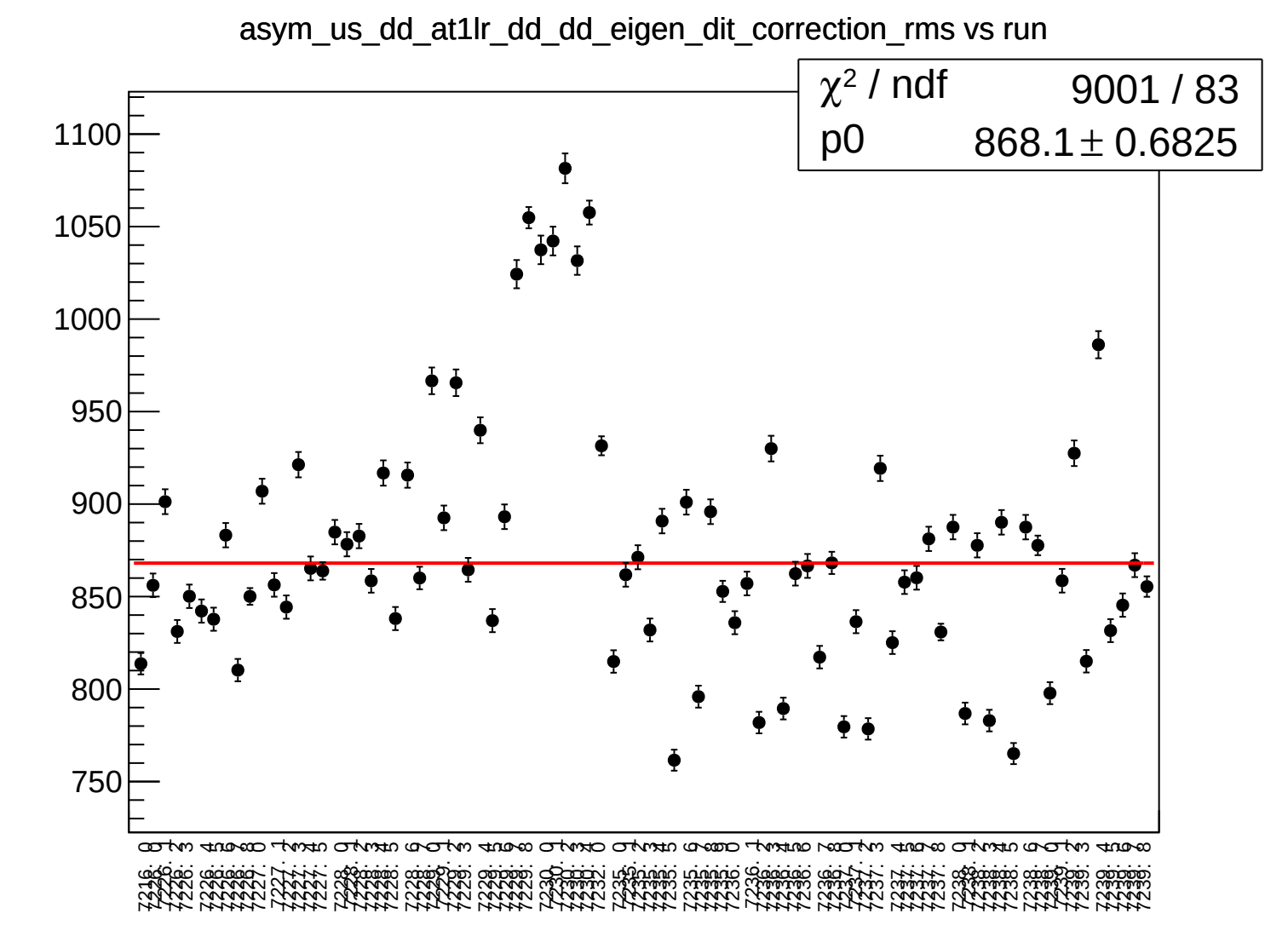

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 94.1 / 83
p0 −2481 ± 1916
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 374.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

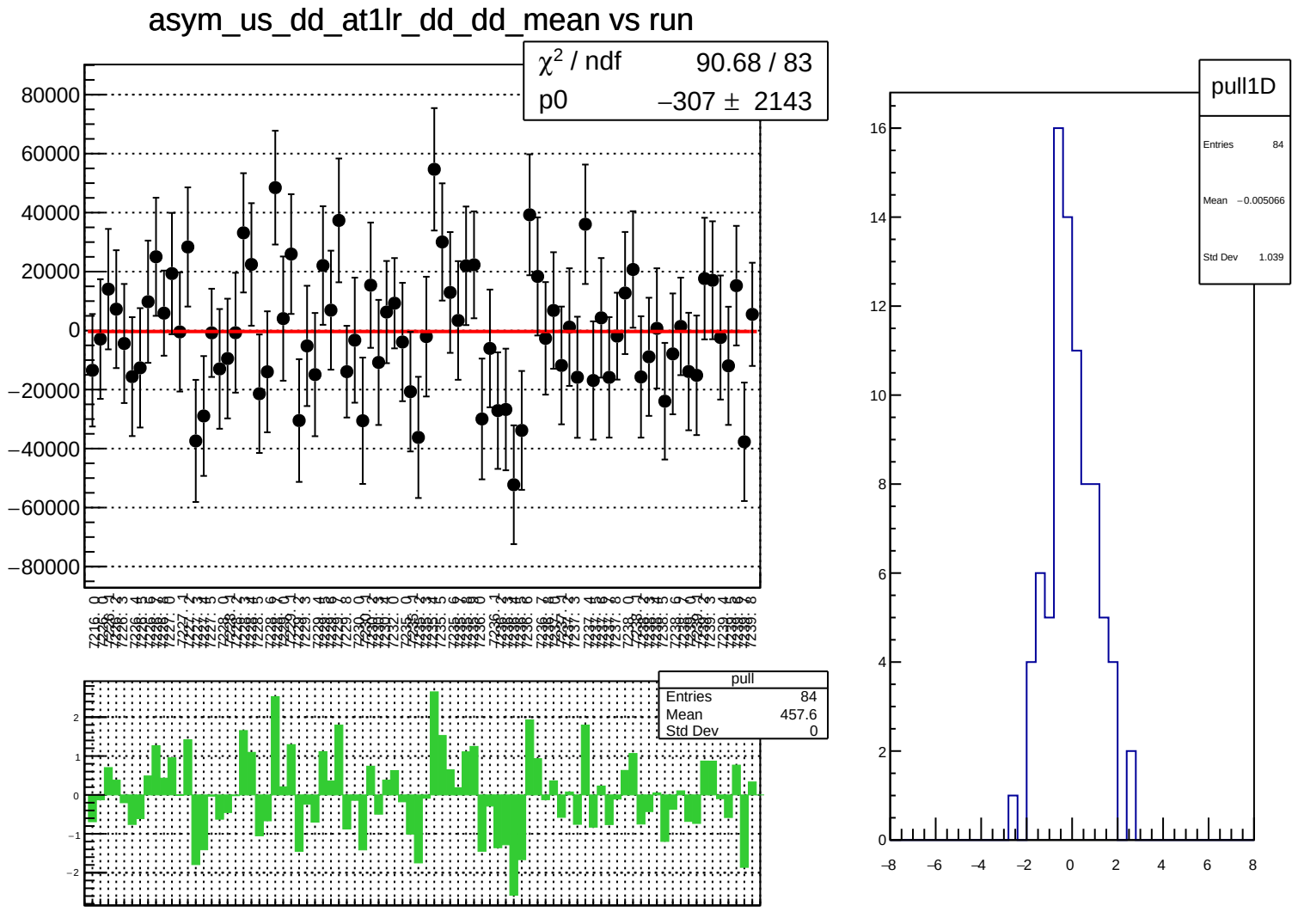

pull1D
Entries 84
Mean −0.00795
Std Dev 1.058
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

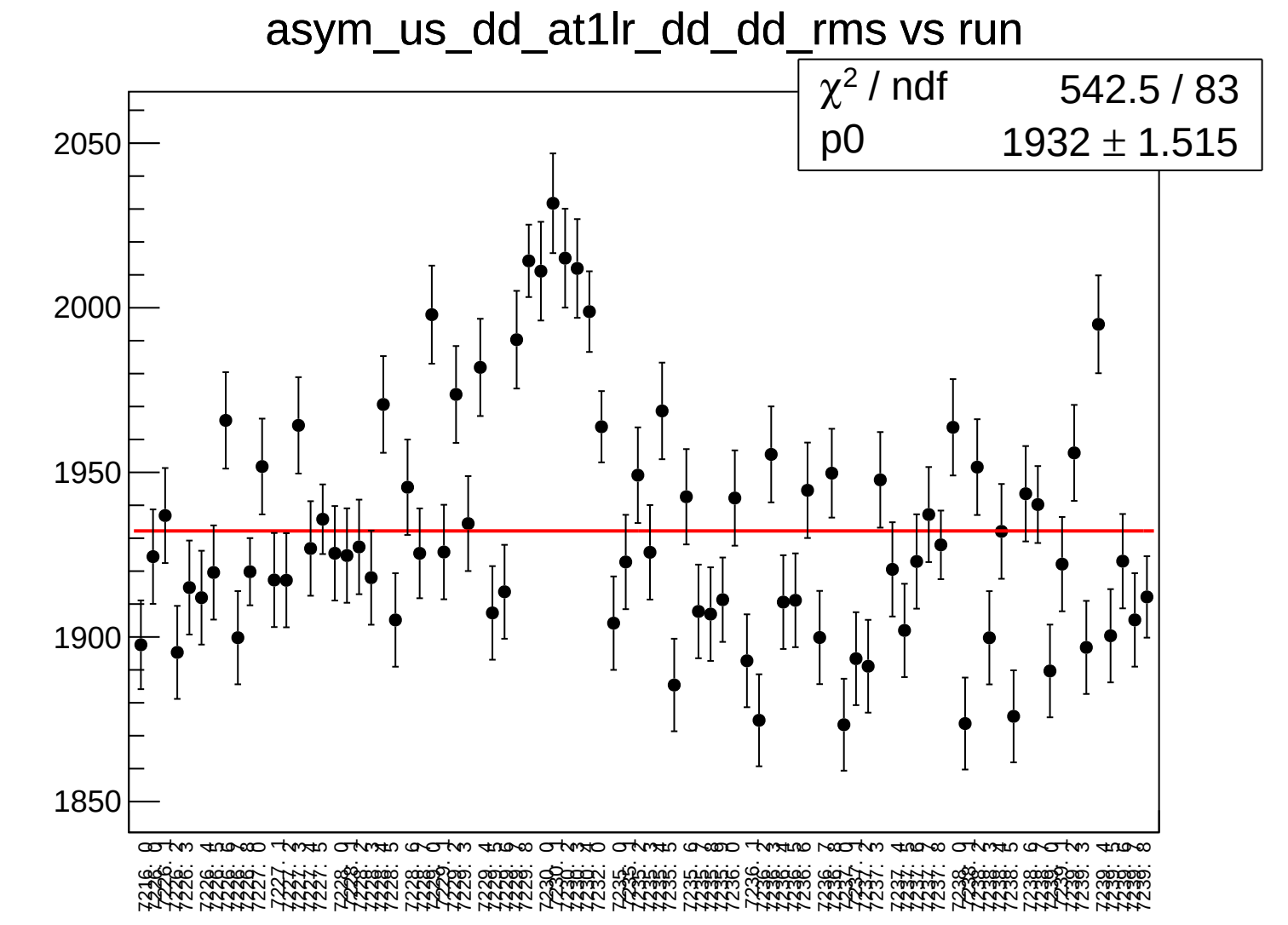

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 85.93 / 83
p0 1728 ± 1.355
1780
1760
1740
1720
1700
1680

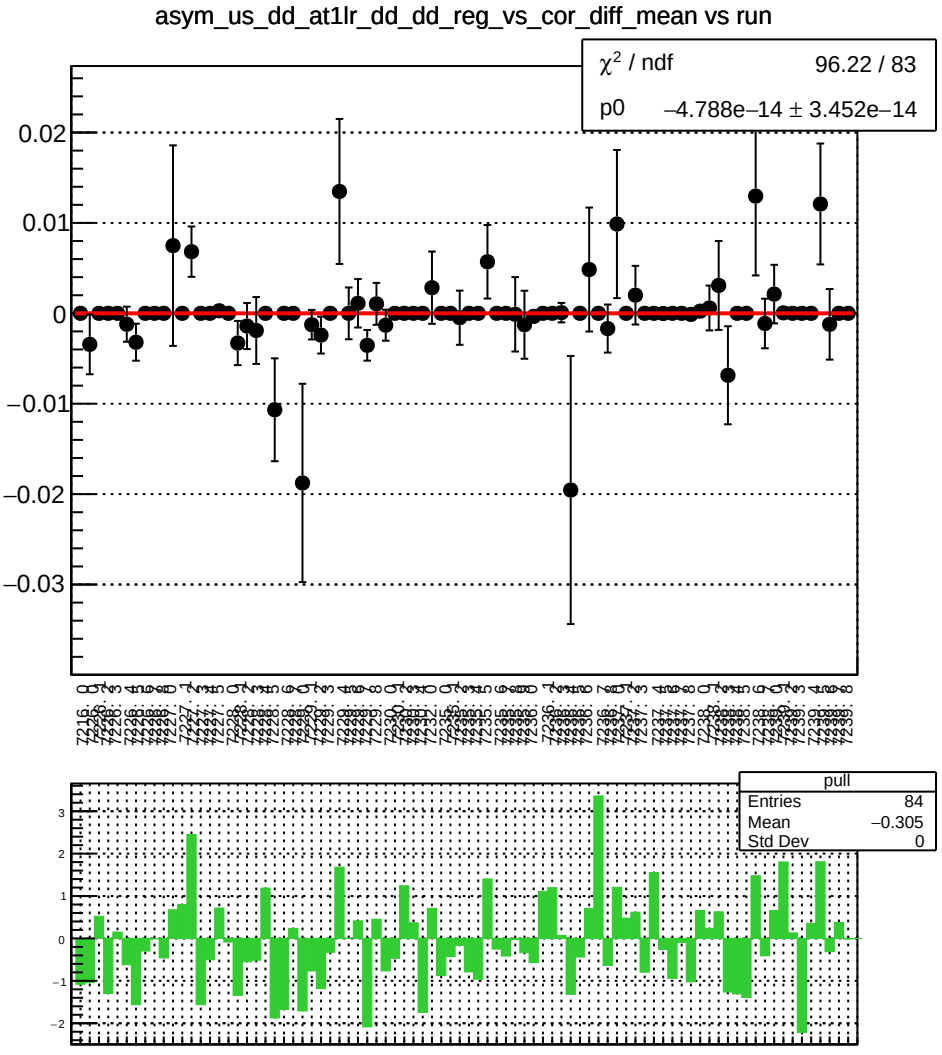

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 78.66 / 83
p0 −2186 ± 965.3
pull
Entries 84
Mean 194.3
Std Dev 0

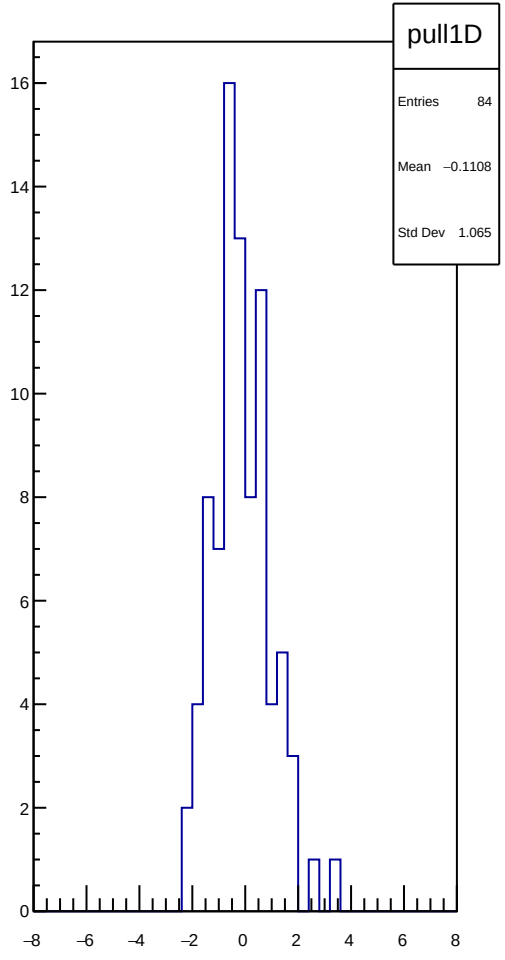

pull1D
Entries 84
Mean −0.004842
Std Dev 0.9677

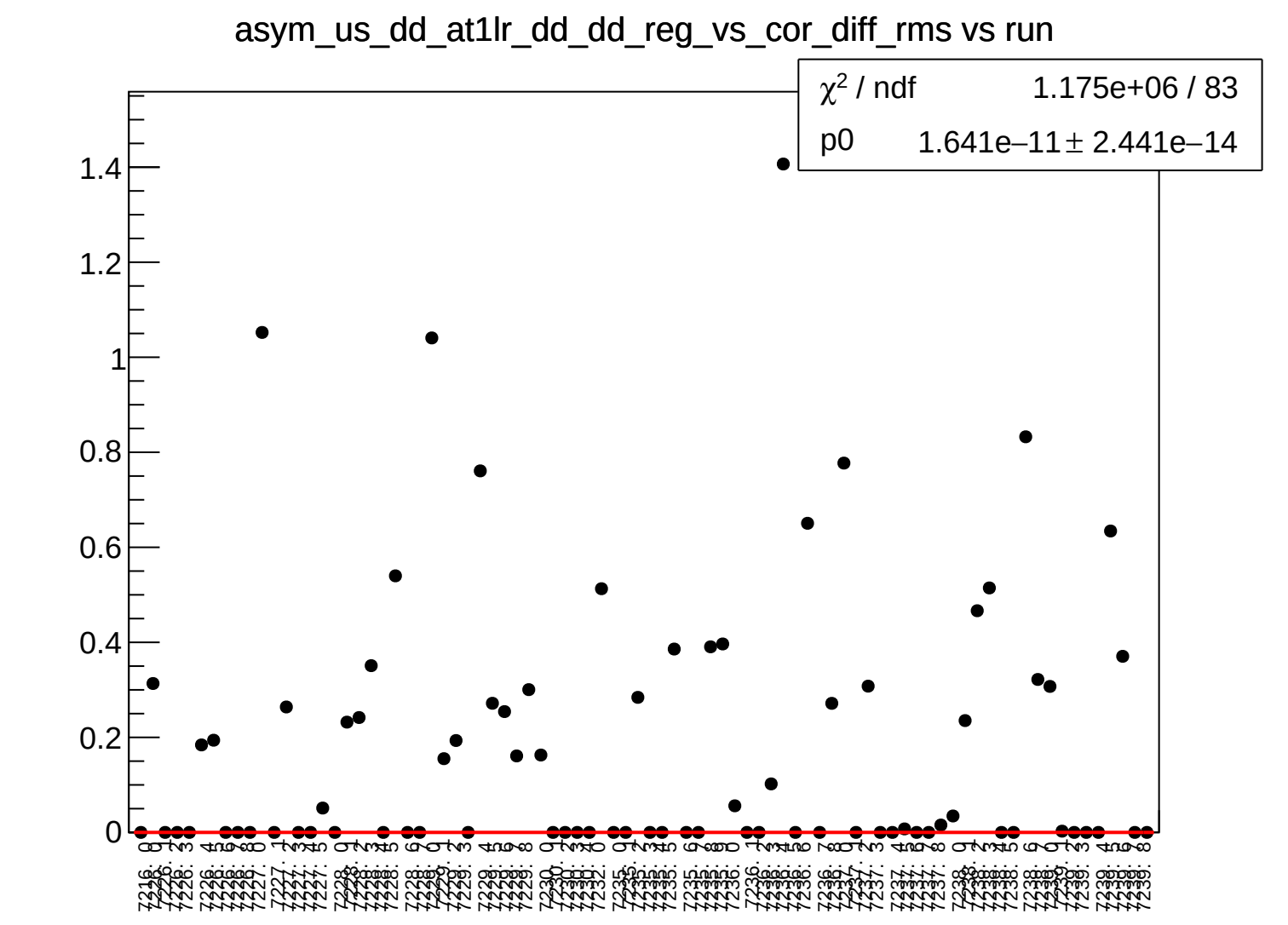

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 9001 / 83
p0 868.1 ± 0.6825
1100
1050
1000
950
900
850
800
750

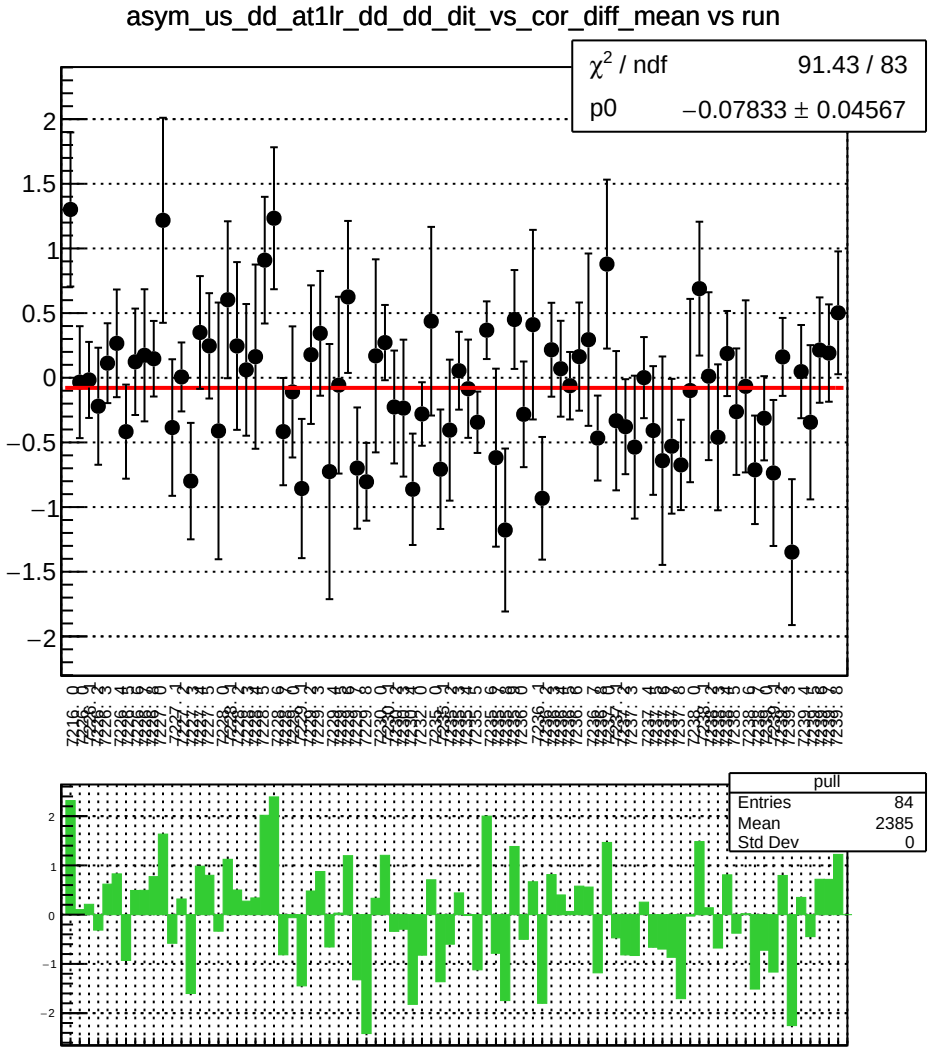

asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 90.68 / 83
p0 −307 ± 2143
pull
Entries 84
Mean 457.6
Std Dev 0
pull1D
Entries 84
Mean −0.005066
Std Dev 1.039

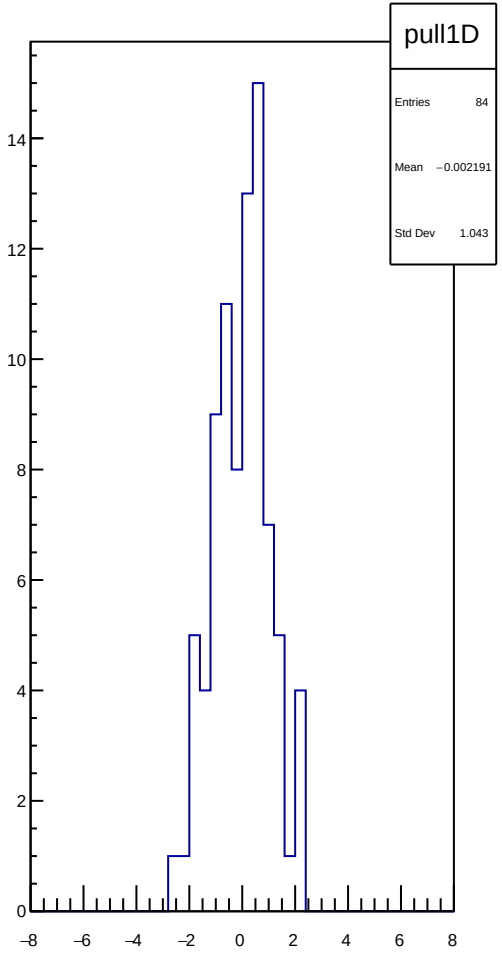

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 542.5 / 83
p0 1932 ± 1.515
2050
2000
1950
1900
1850

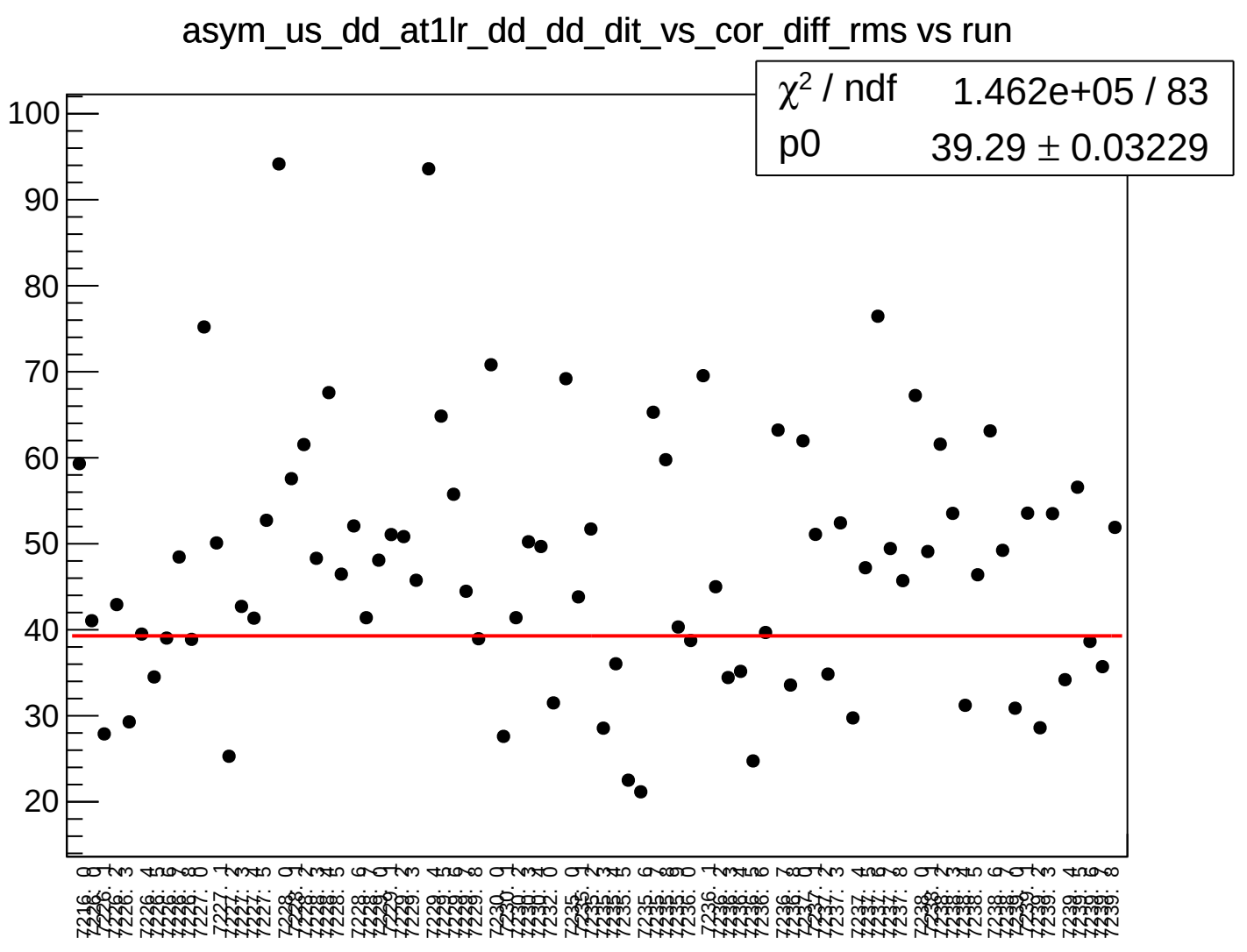

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 96.22 / 83
p0 −4.788e−14 ± 3.452e−14
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 84
Mean −0.305
Std Dev 0
3
2
1
0
−1
−2

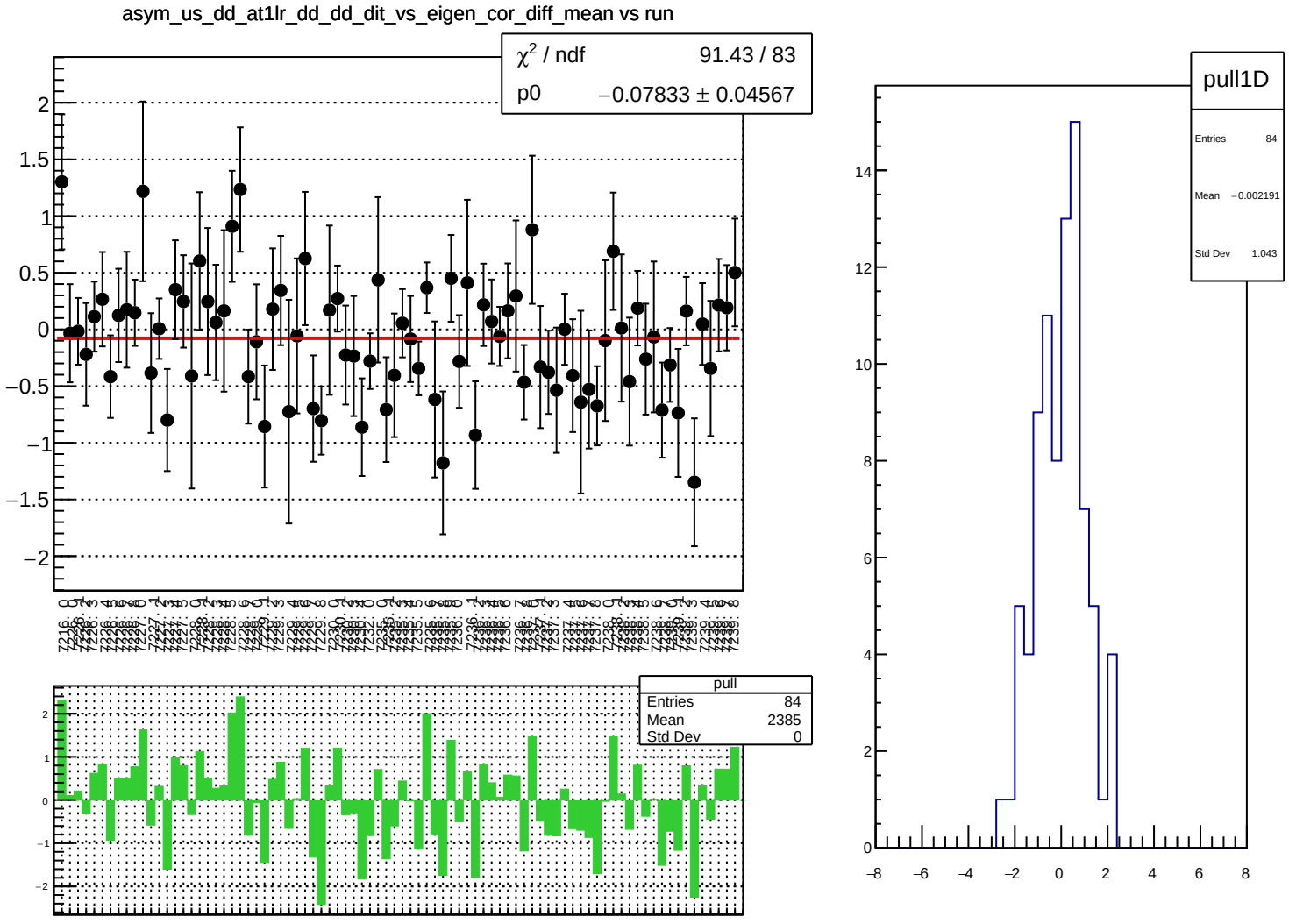

pull1D
Entries 84
Mean −0.1108
Std Dev 1.065
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

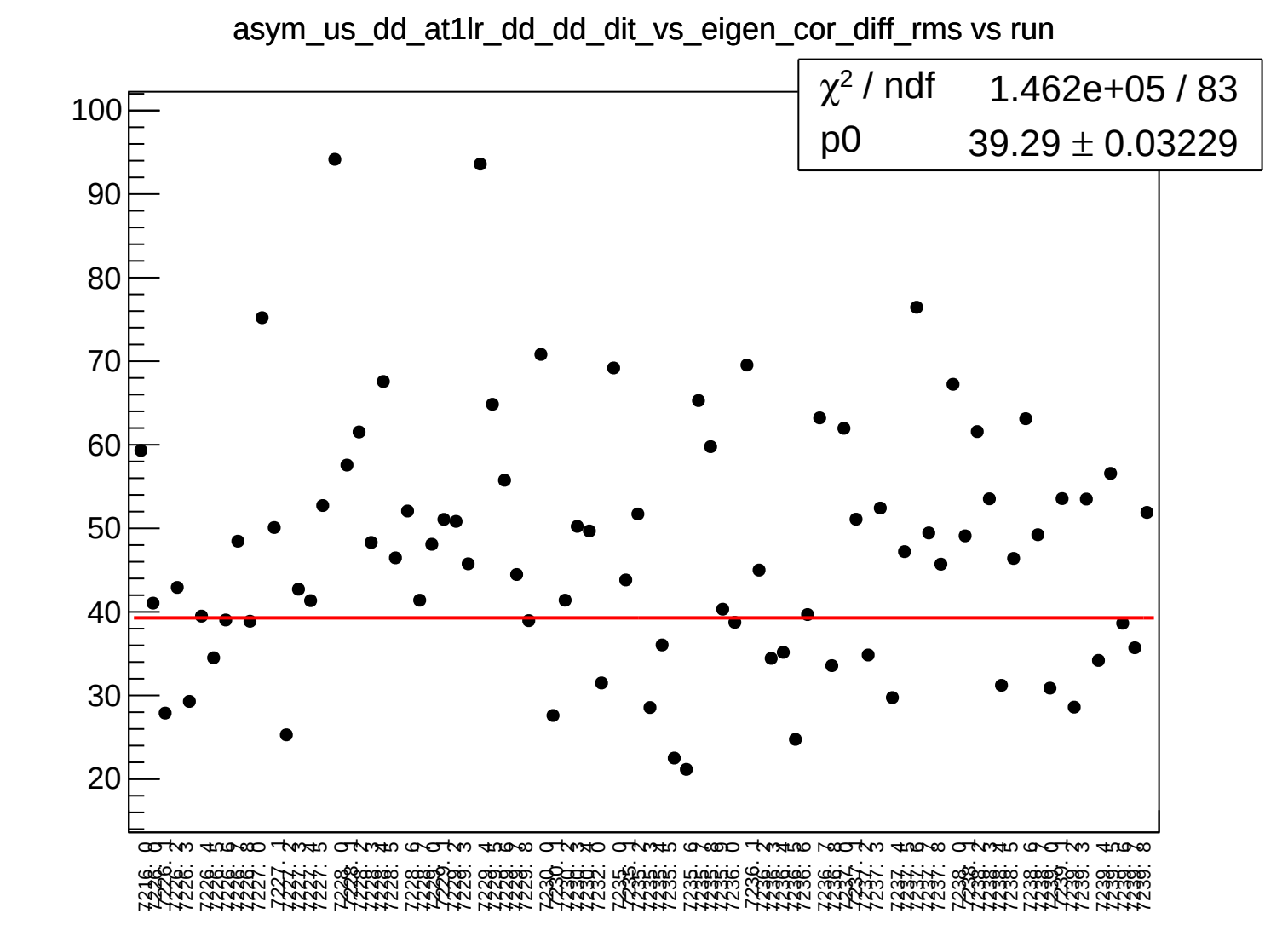

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.175e+06 / 83
p0 1.641e−11 ± 2.441e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

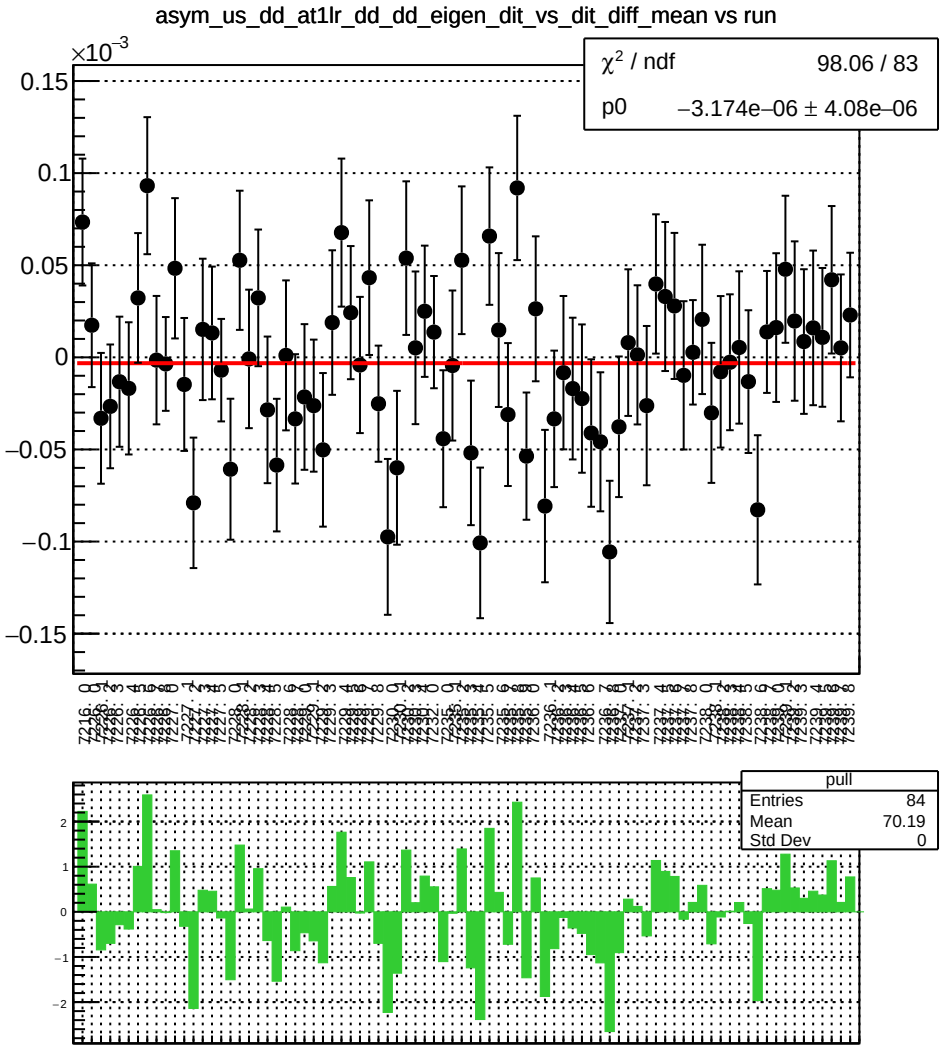

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 91.43 / 83
p0 −0.07833 ± 0.04567
pull
Entries 84
Mean 2385
Std Dev 0

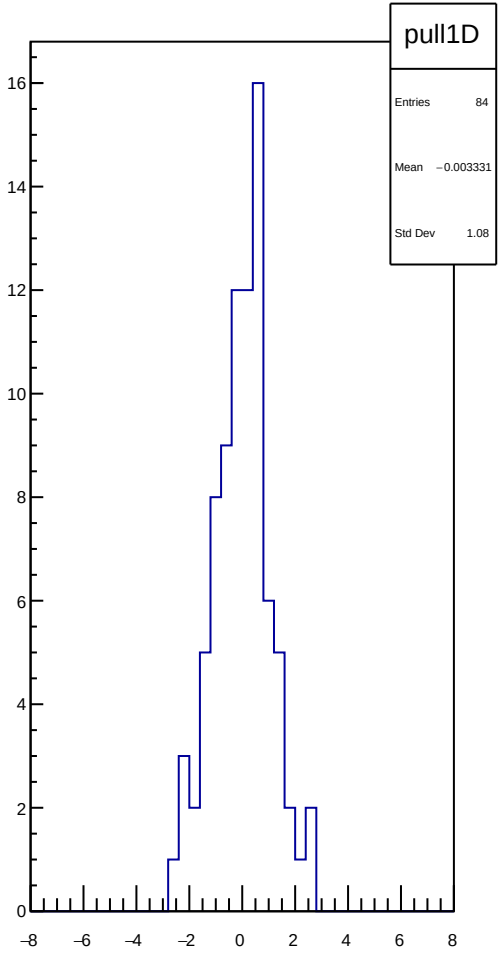

pull1D
Entries 84
Mean −0.002191
Std Dev 1.043

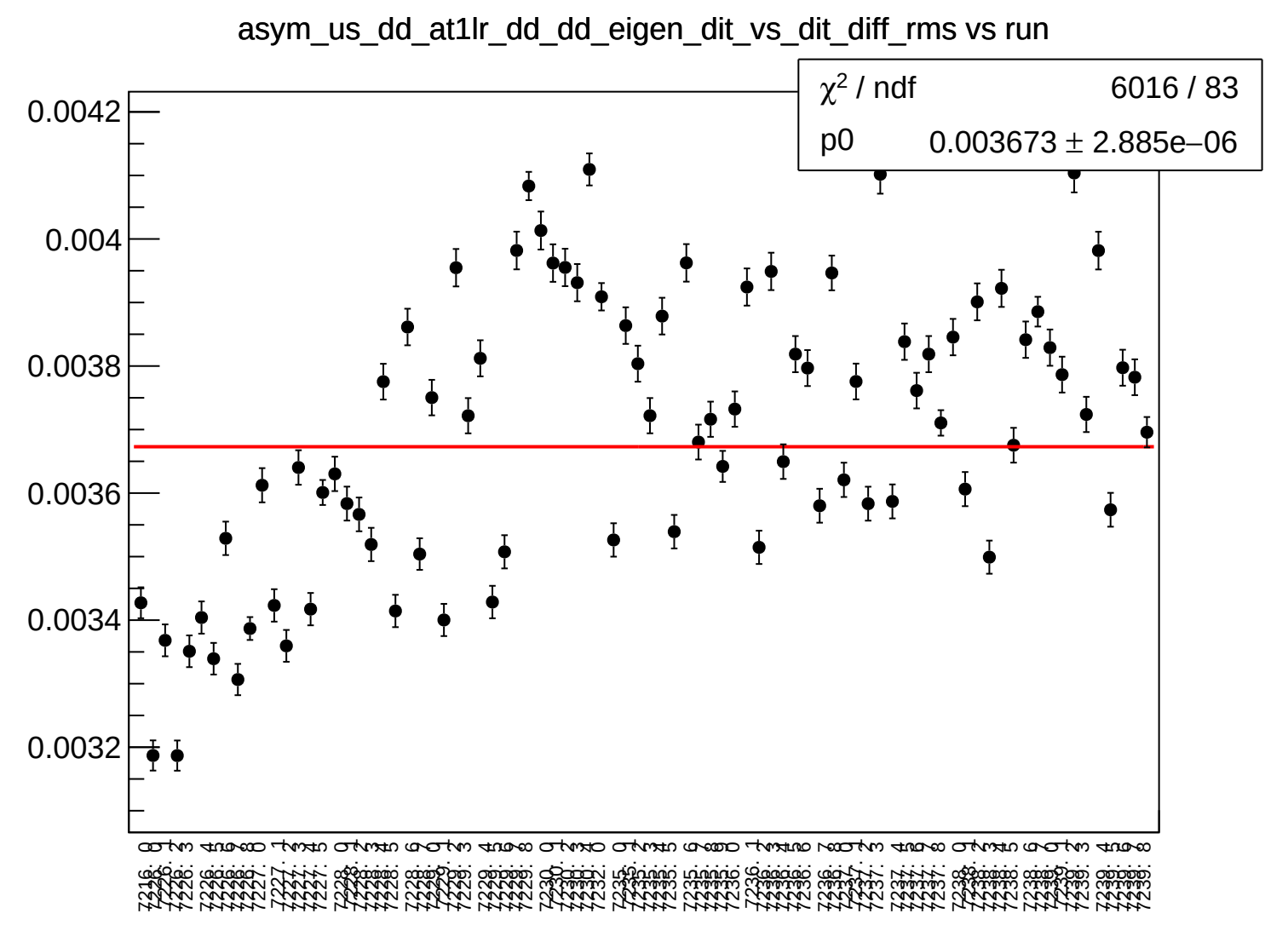

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.462e+05 / 83
p0 39.29 ± 0.03229
100
90
80
70
60
50
40
30
20

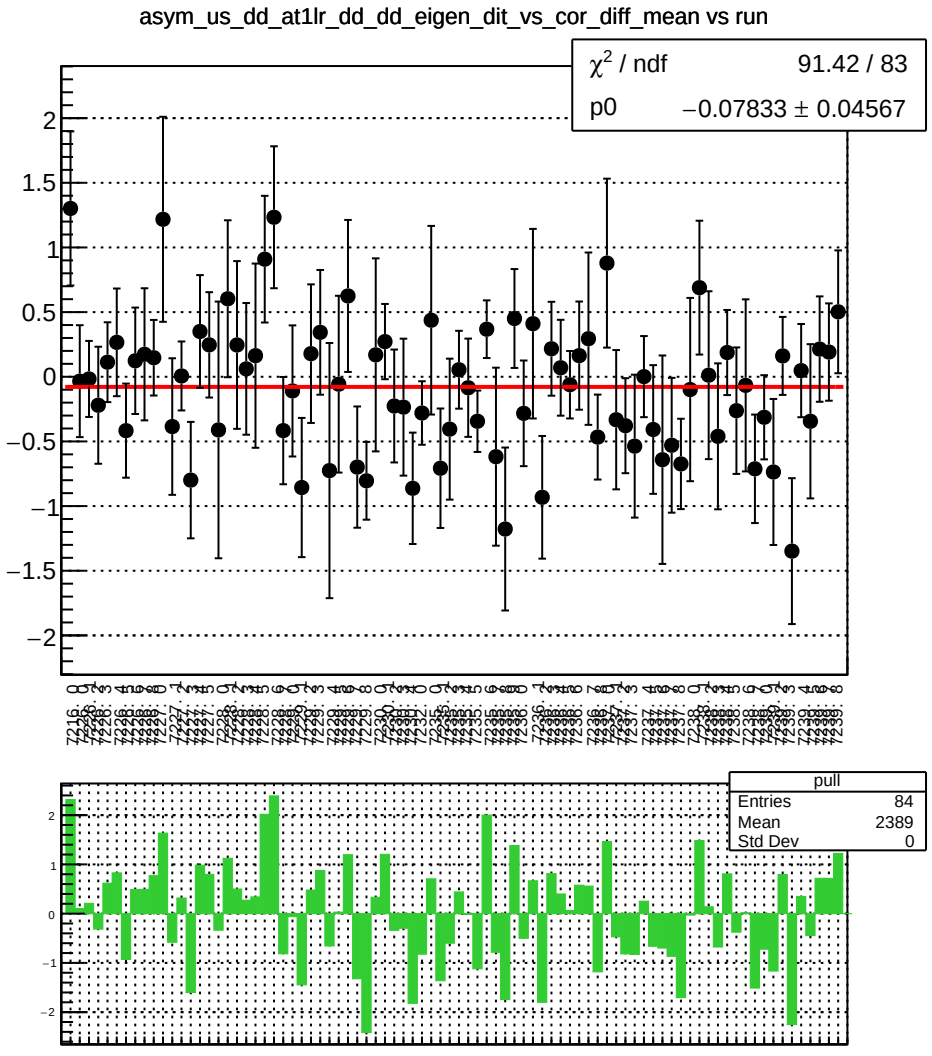

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.43 / 83
p0 −0.07833 ± 0.04567
pull
Entries 84
Mean 2385
Std Dev 0
pull1D
Entries 84
Mean −0.002191
Std Dev 1.043

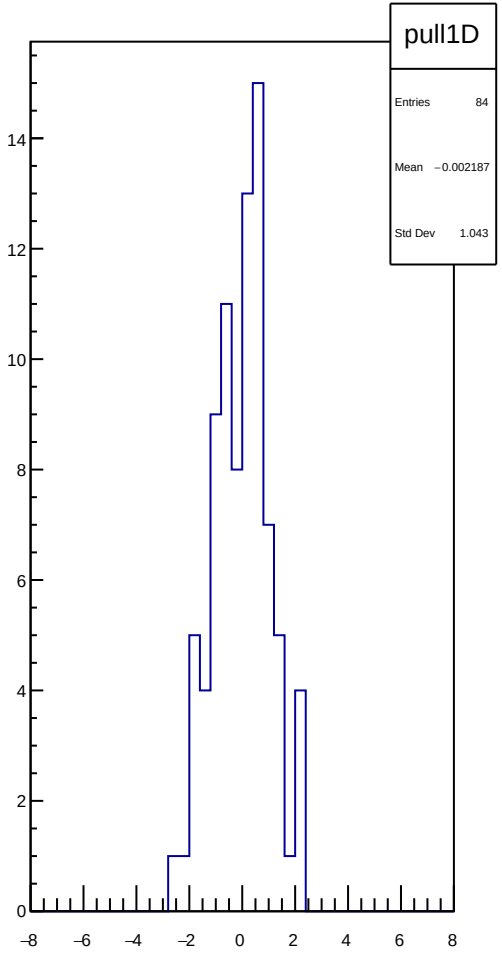

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.462e+05 / 83
p0 39.29 ± 0.03229
100
90
80
70
60
50
40
30
20

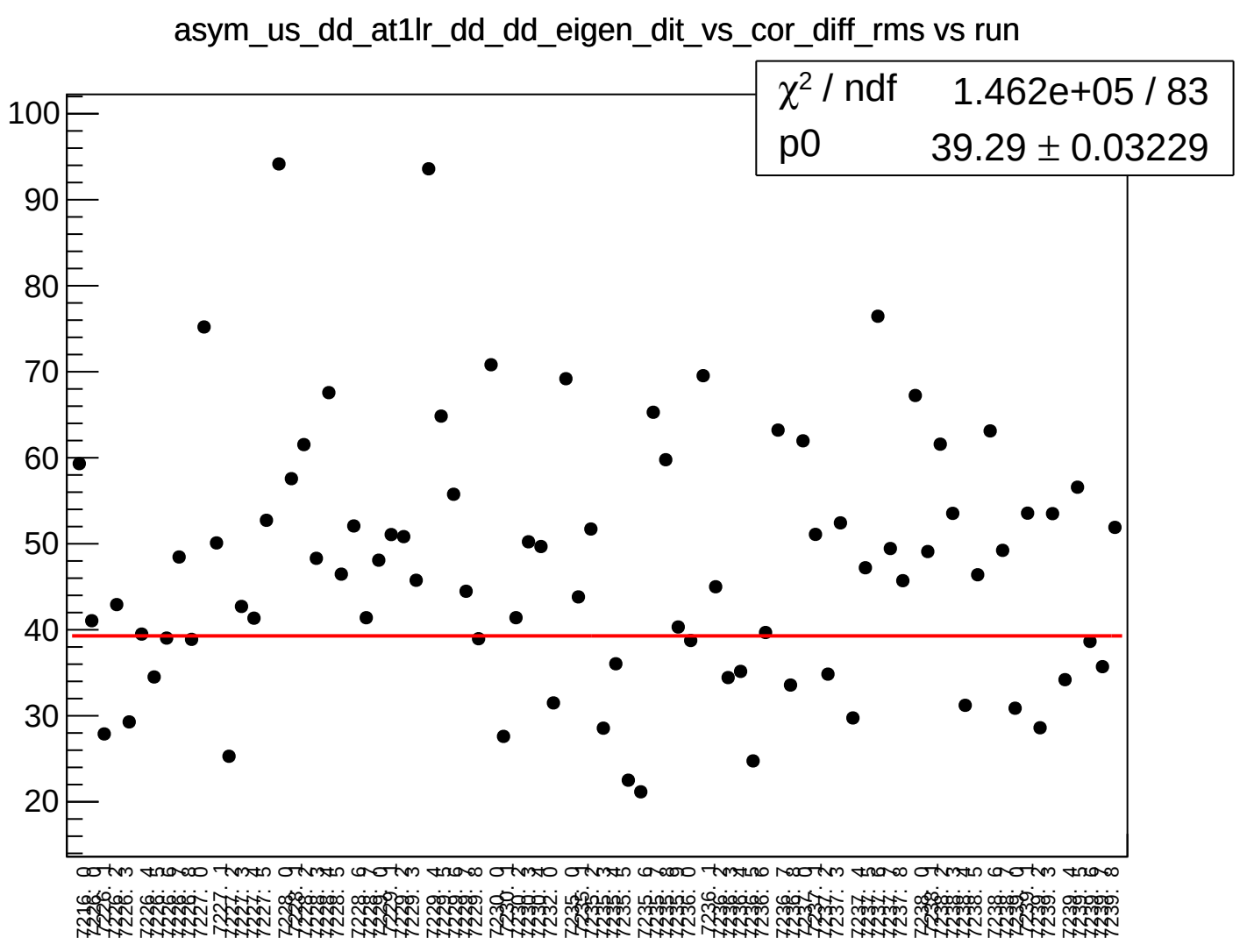

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.06 / 83
p0 −3.174e−06 ± 4.08e−06
pull
Entries 84
Mean 70.19
Std Dev 0

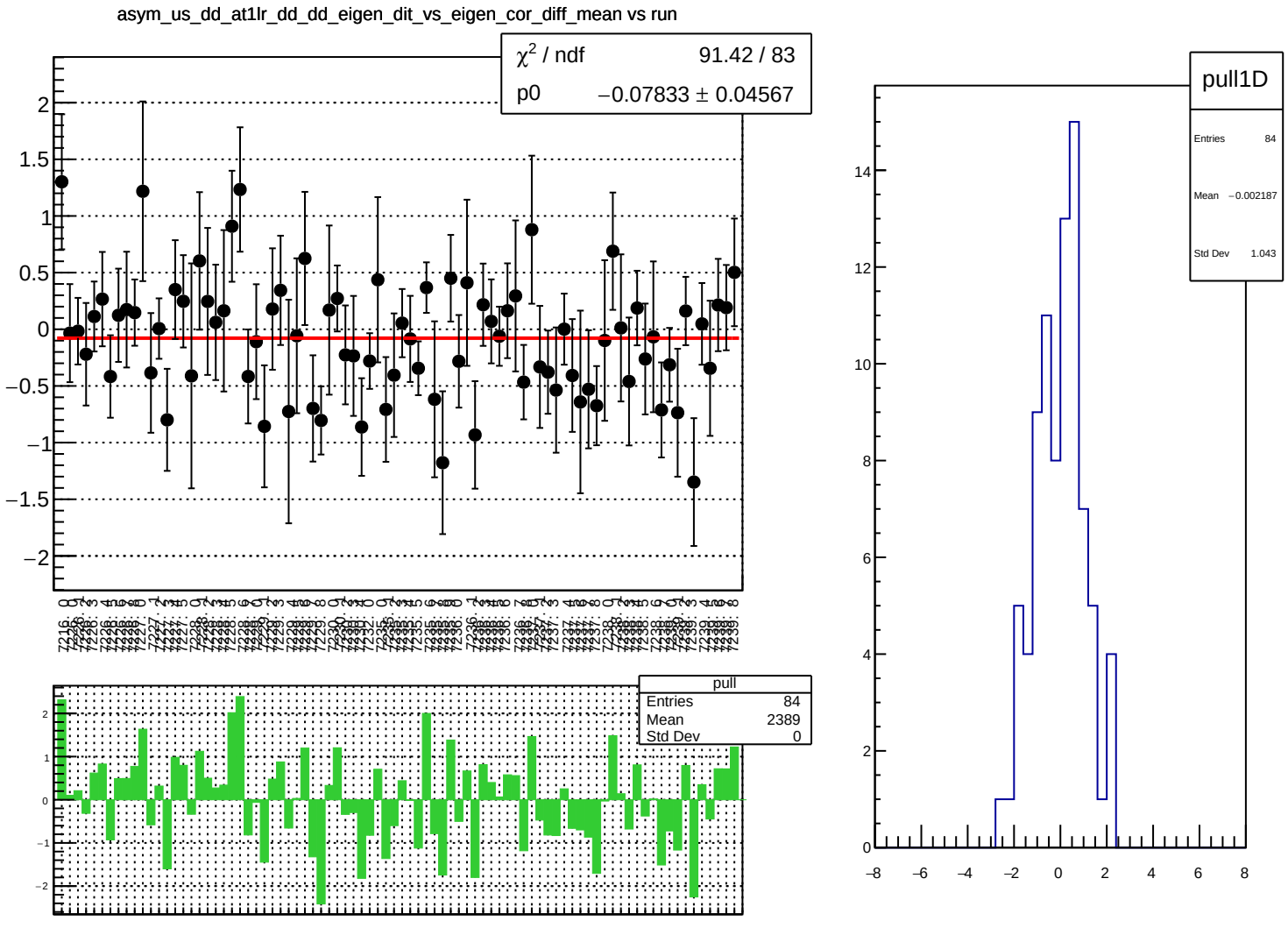

pull1D
Entries 84
Mean −0.003331
Std Dev 1.08

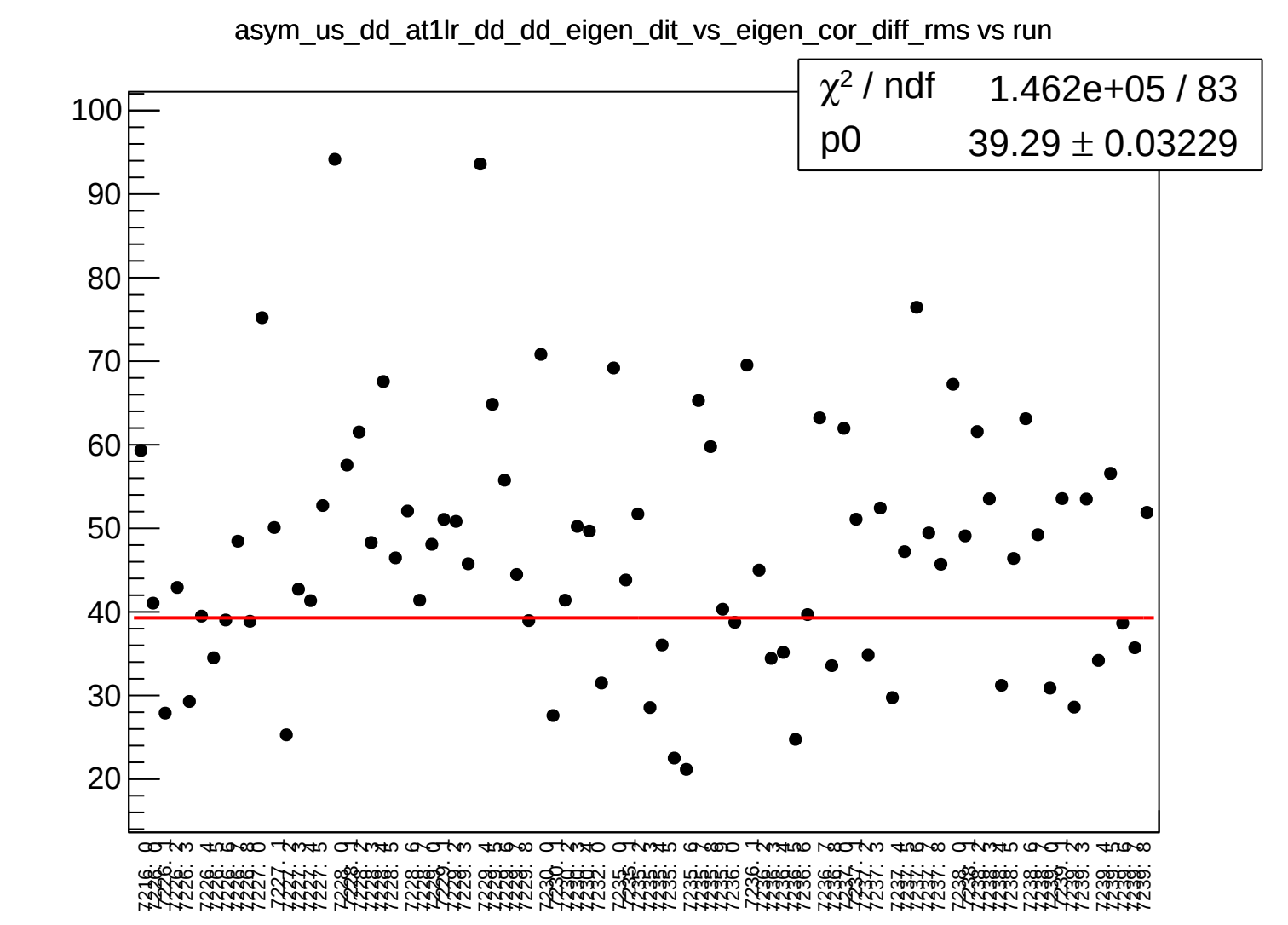

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6016 / 83
p0 0.003673 ± 2.885e−06
0.0042
0.004
0.0038
0.0036
0.0034
0.0032

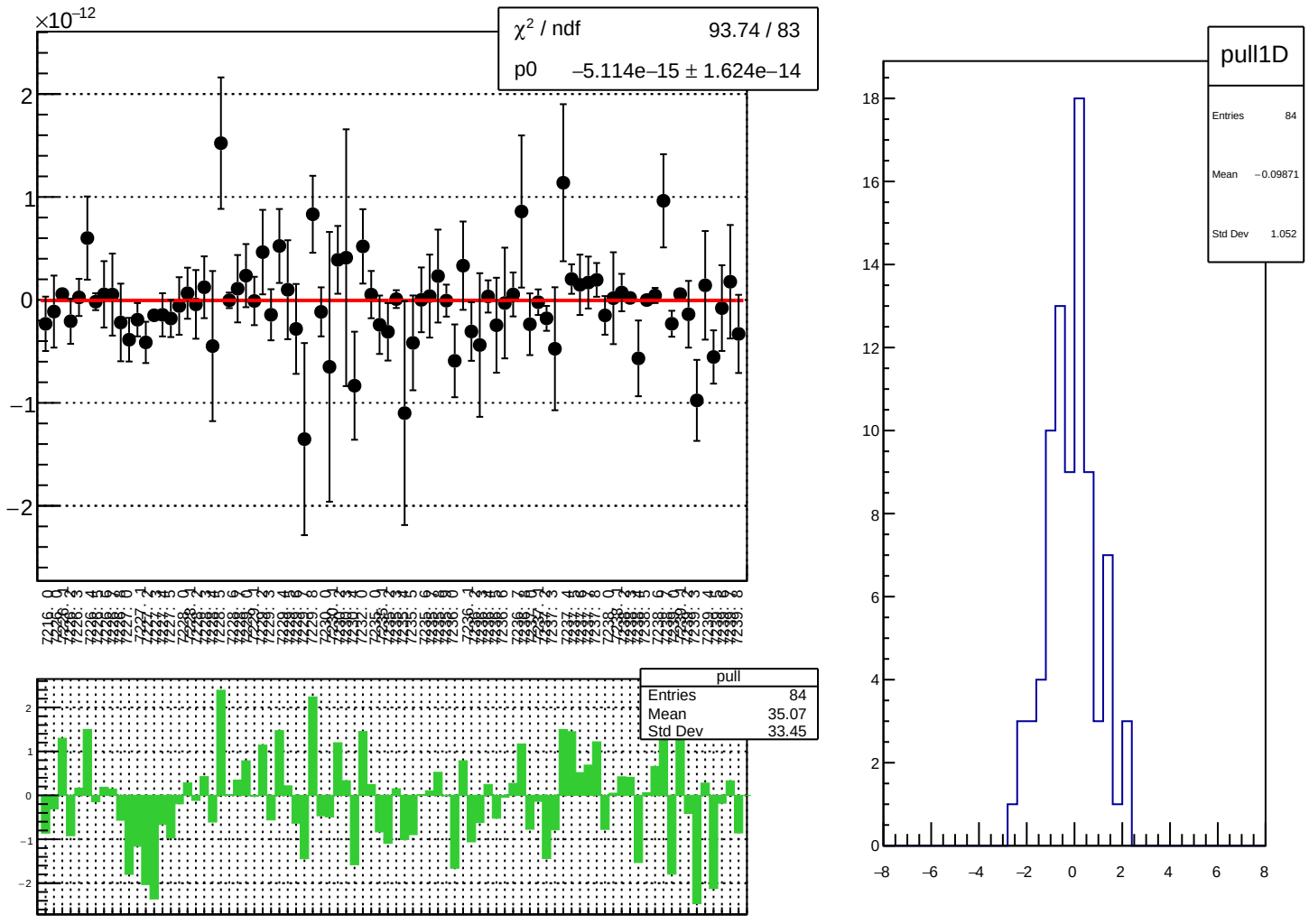

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.42 / 83
p0 −0.07833 ± 0.04567
pull
Entries 84
Mean 2389
Std Dev 0

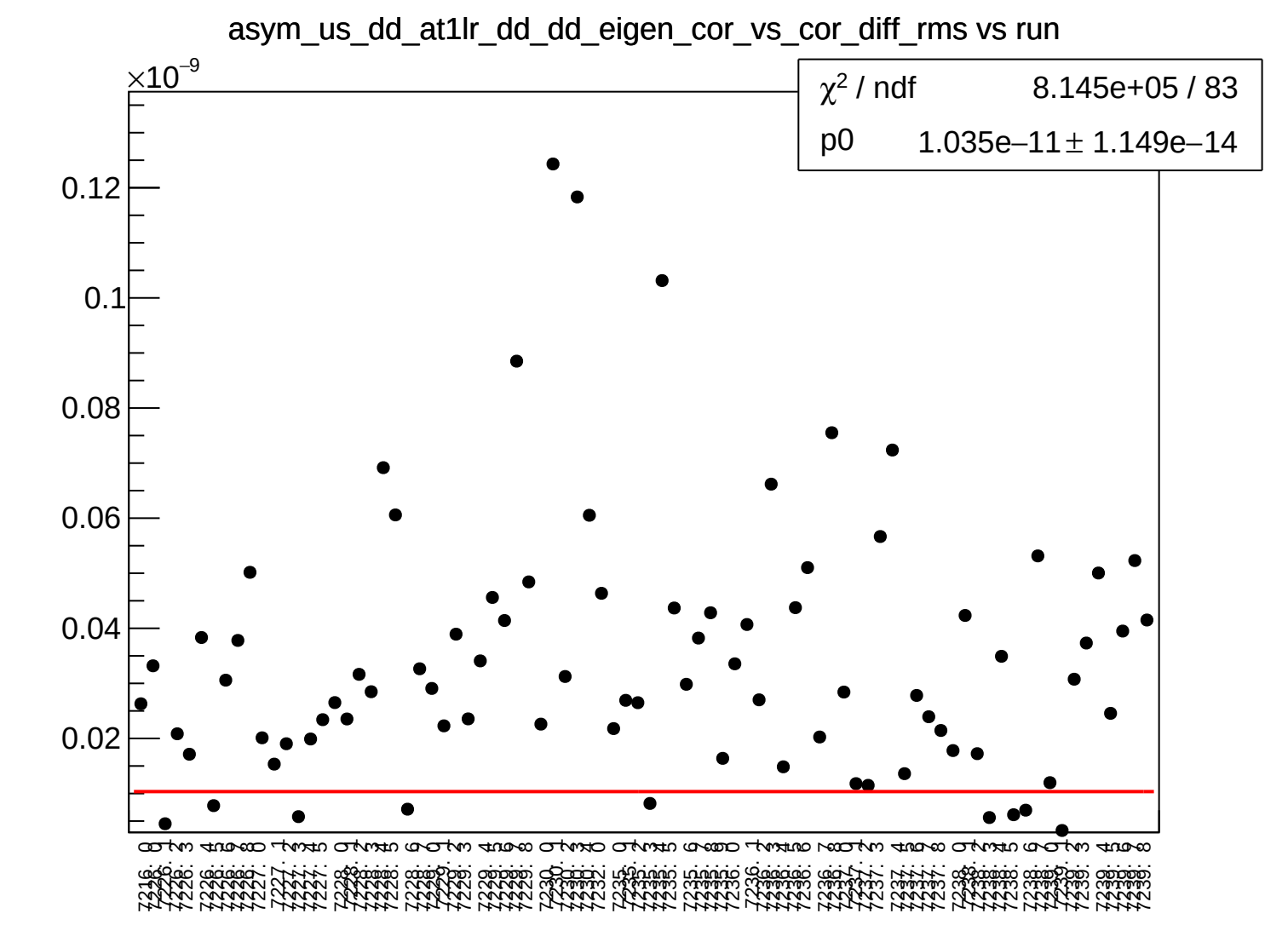

pull1D
Entries 84
Mean −0.002187
Std Dev 1.043

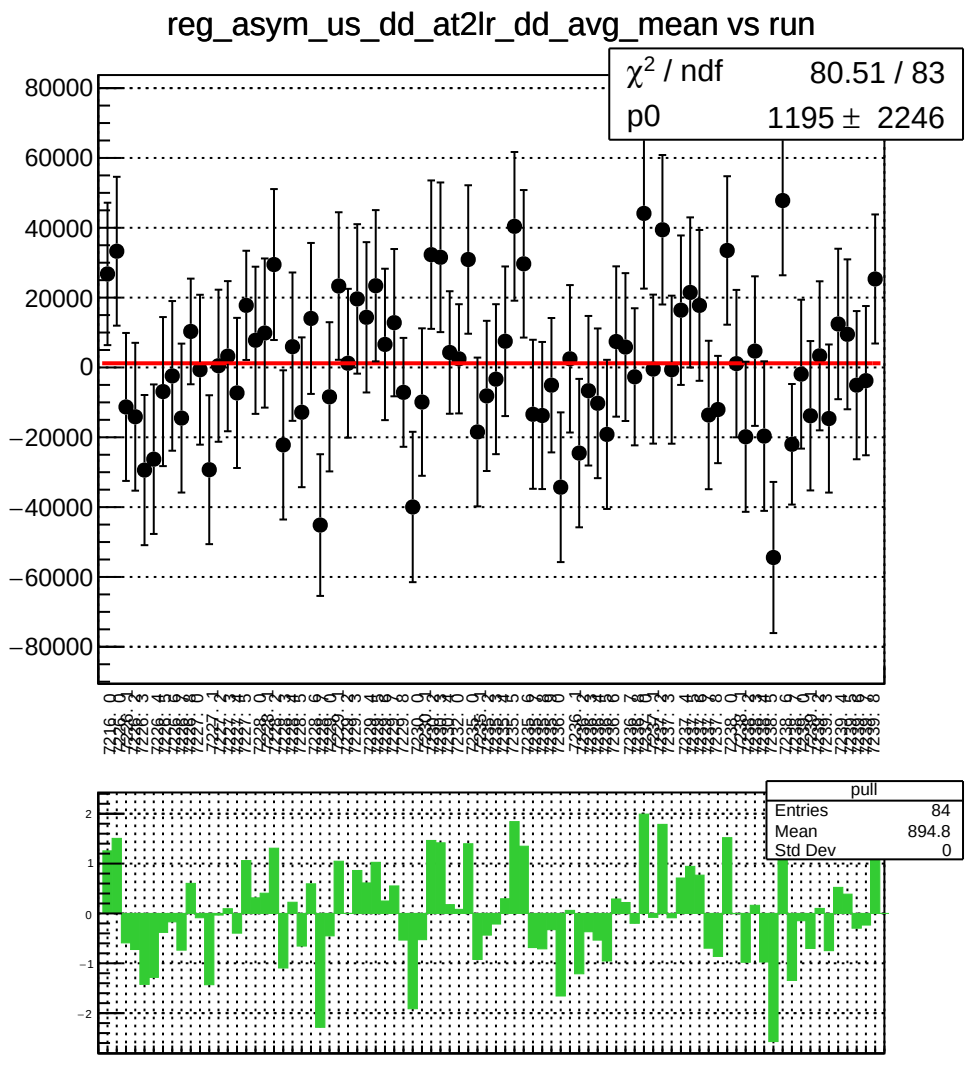

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.462e+05 / 83
p0 39.29 ± 0.03229
100
90
80
70
60
50
40
30
20

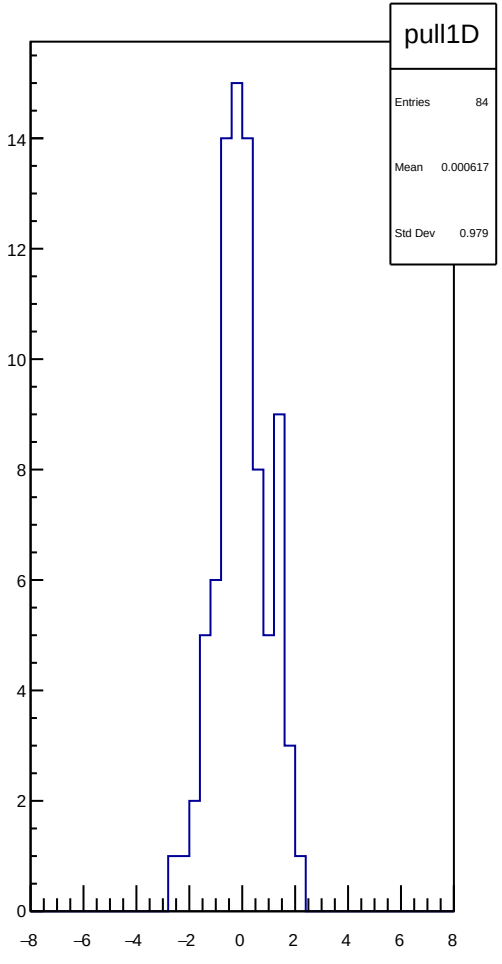

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.42 / 83
p0 −0.07833 ± 0.04567
pull
Entries 84
Mean 2389
Std Dev 0
pull1D
Entries 84
Mean −0.002187
Std Dev 1.043

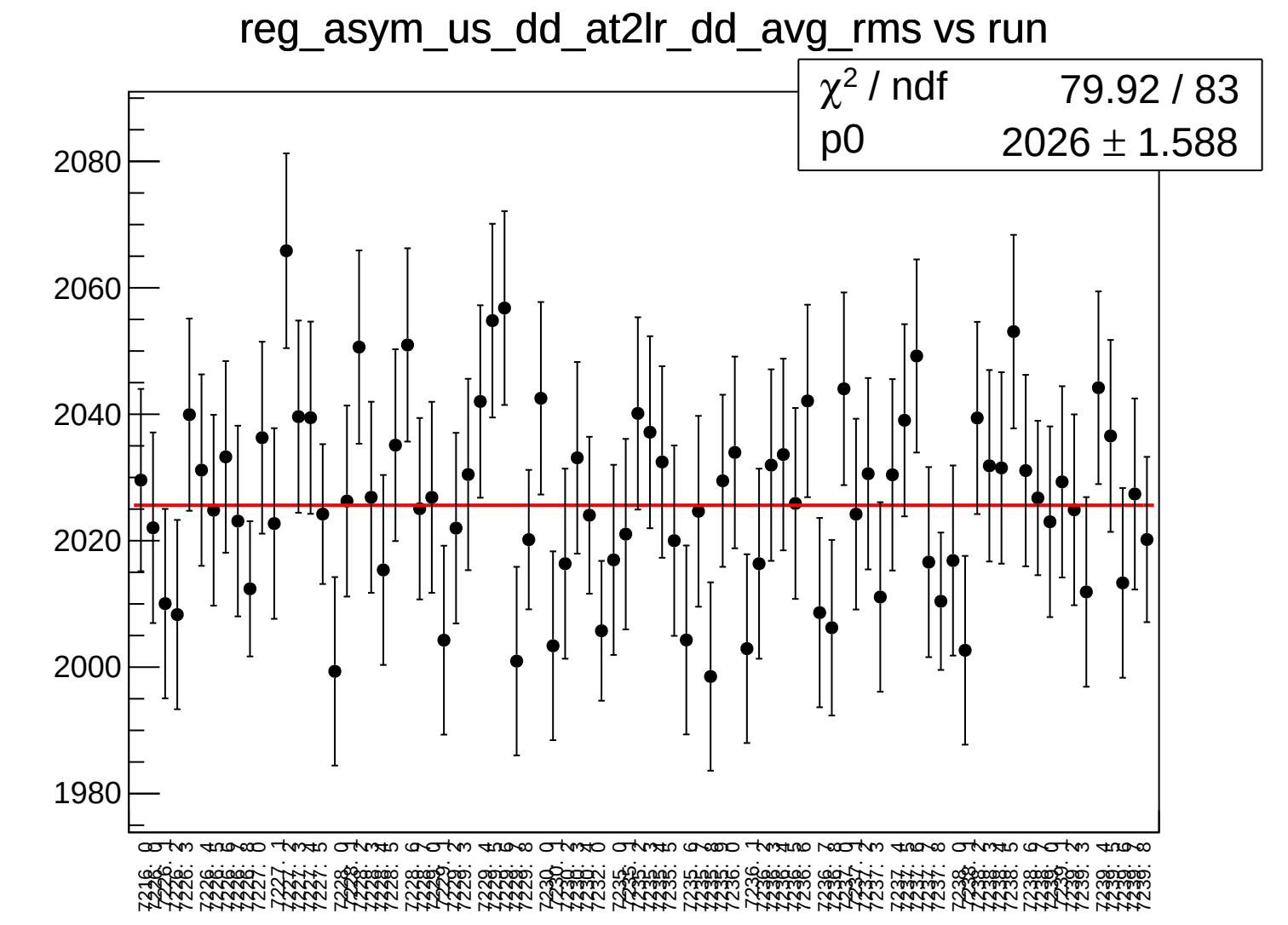

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.462e+05 / 83
p0 39.29 ± 0.03229
100
90
80
70
60
50
40
30
20

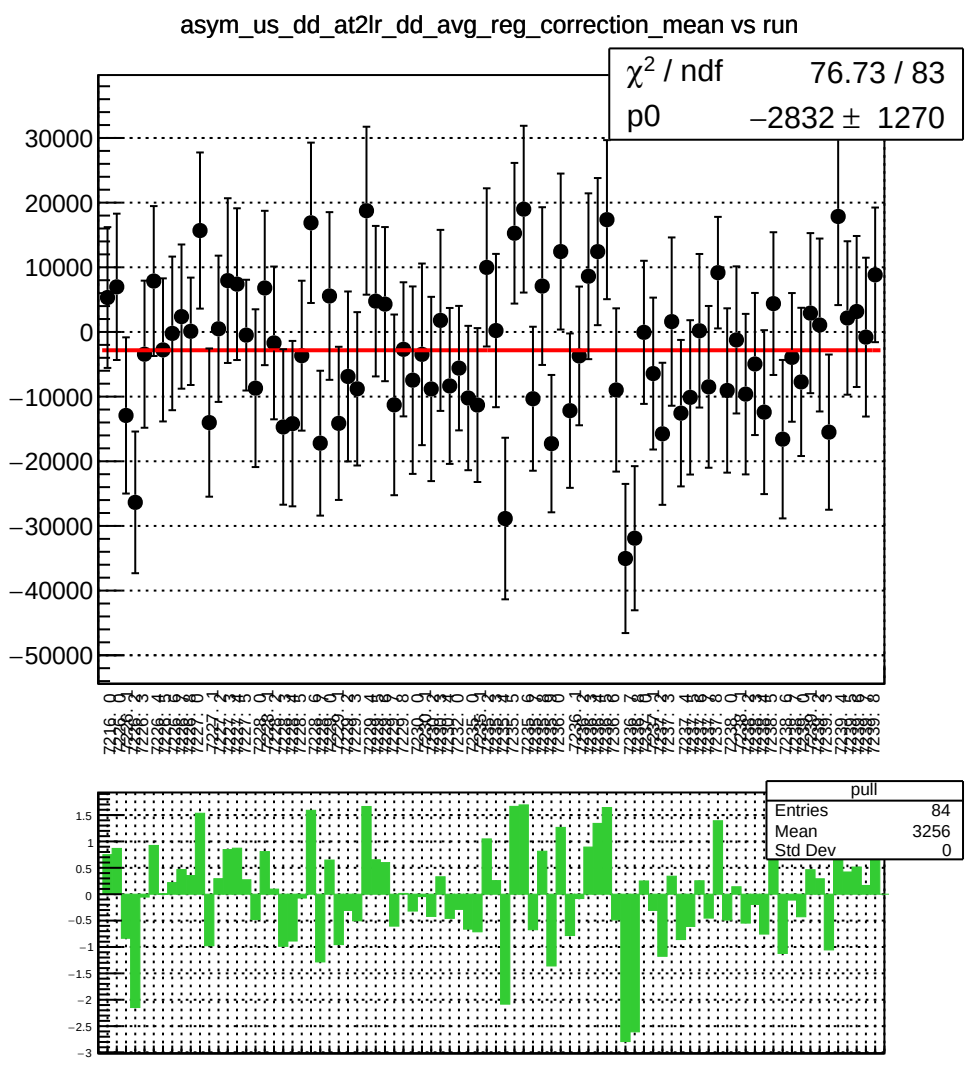

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 93.74 / 83
p0 −5.114e−15 ± 1.624e−14
pull
Entries 84
Mean 35.07
Std Dev 33.45
pull1D
Entries 84
Mean −0.09871
Std Dev 1.052

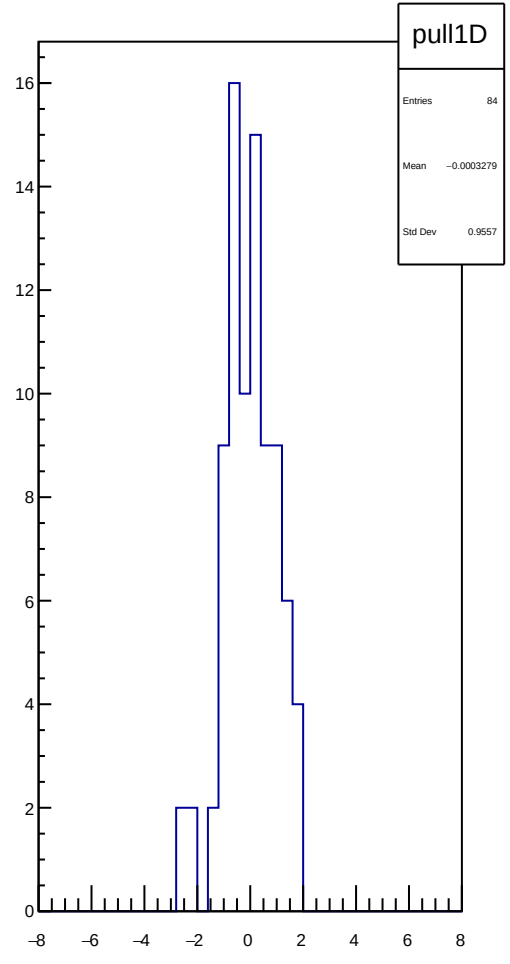

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.145e+05 / 83
p0 1.035e−11 ± 1.149e−14
0.12
0.1
0.08
0.06
0.04
0.02

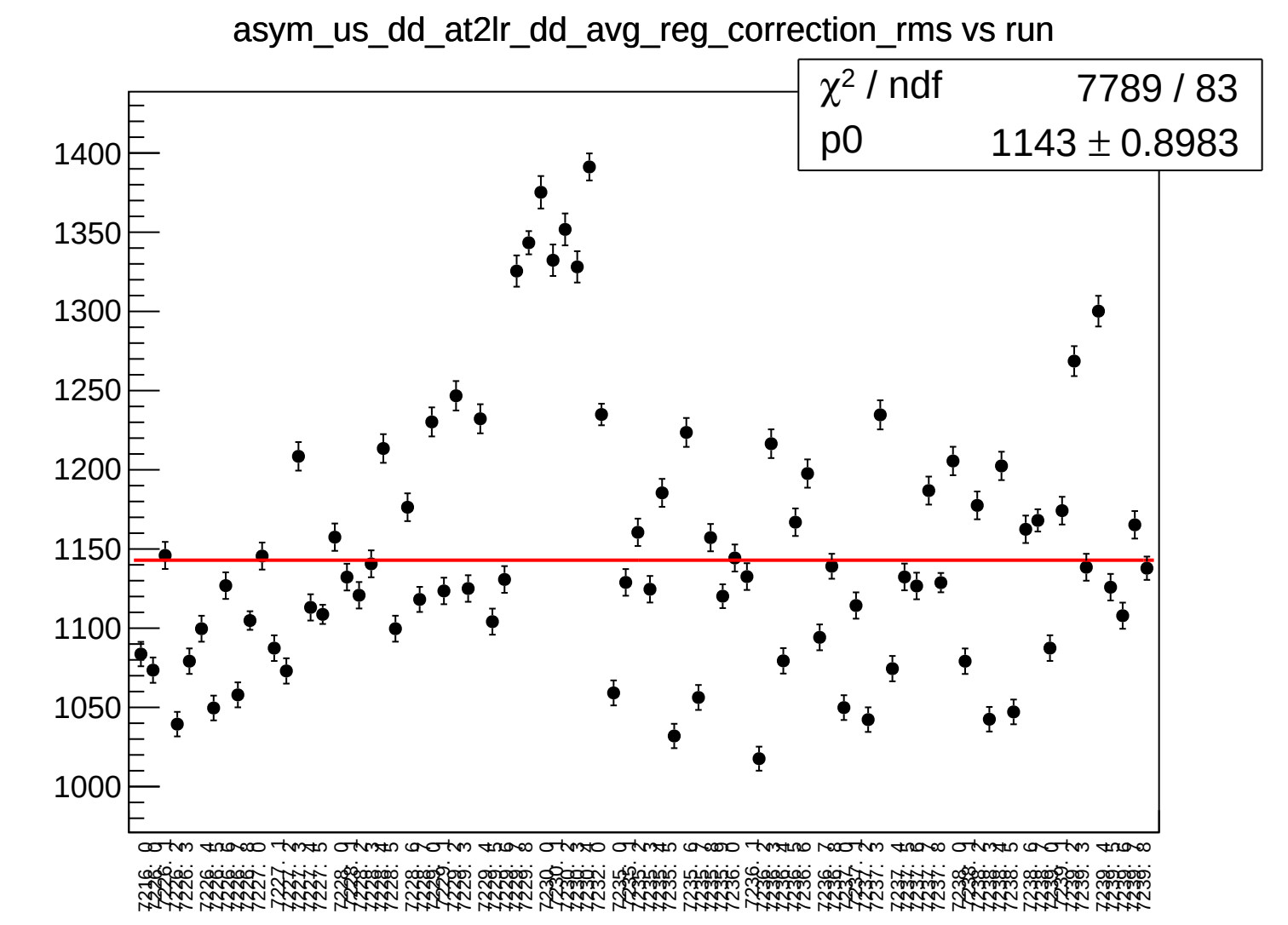

reg_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 80.51 / 83
p0 1195 ± 2246
pull
Entries 84
Mean 894.8
Std Dev 0

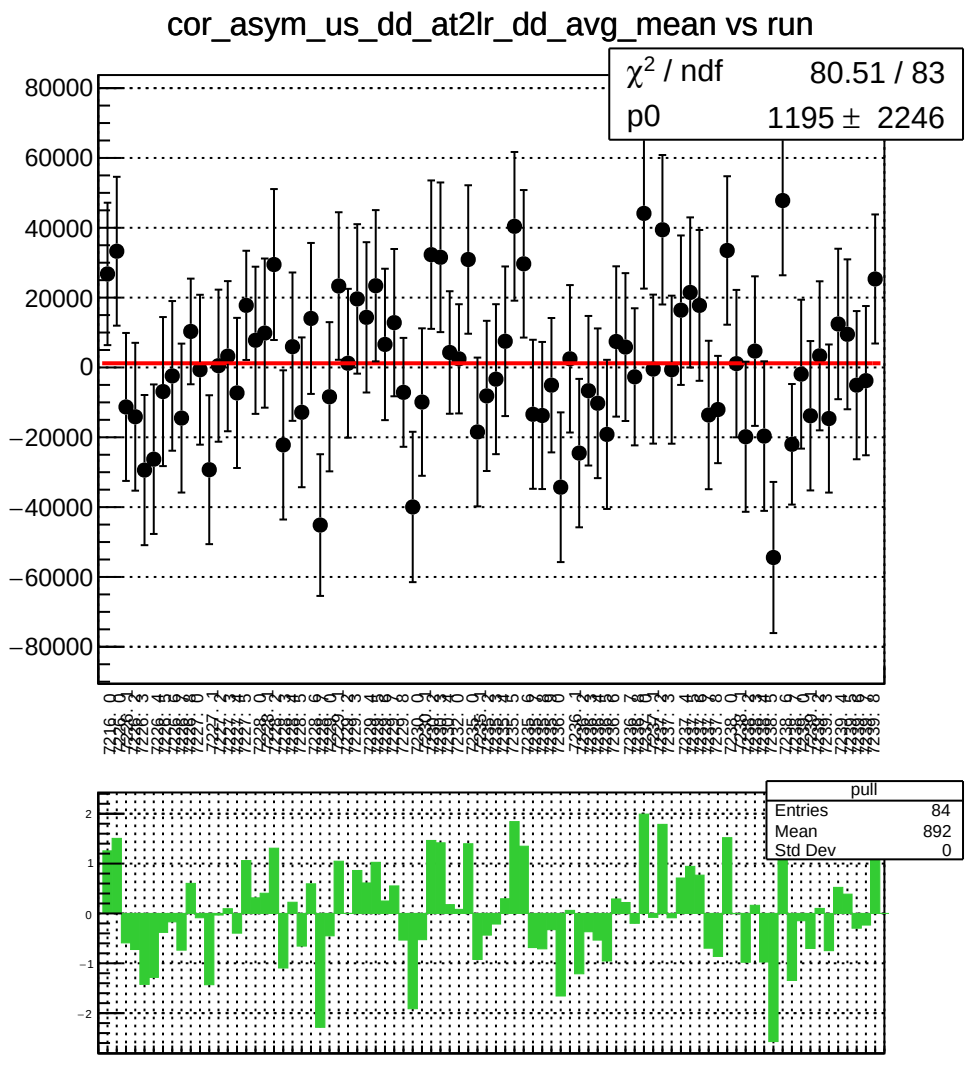

pull1D
Entries 84
Mean 0.000617
Std Dev 0.979

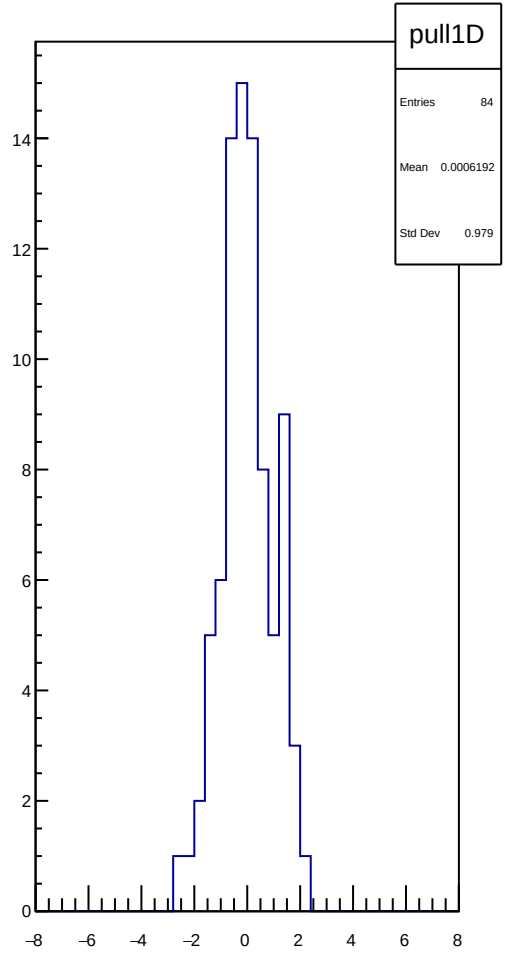

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ^2 / ndf 79.92 / 83
p0 2026 ± 1.588
2080
2060
2040
2020
2000
1980

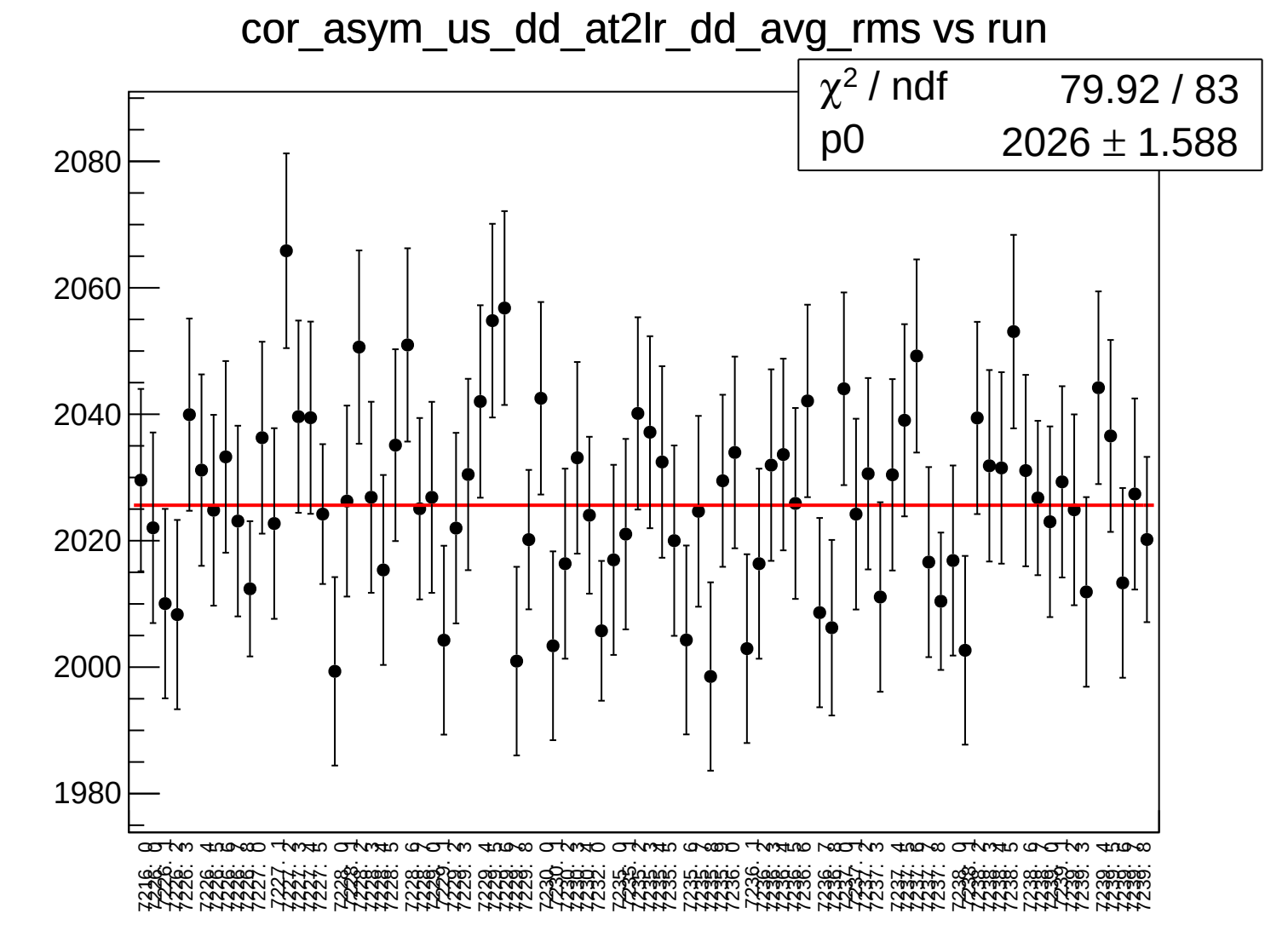

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
χ² / ndf 76.73 / 83
p0 −2832 ± 1270
pull
Entries 84
Mean 3256
Std Dev 0

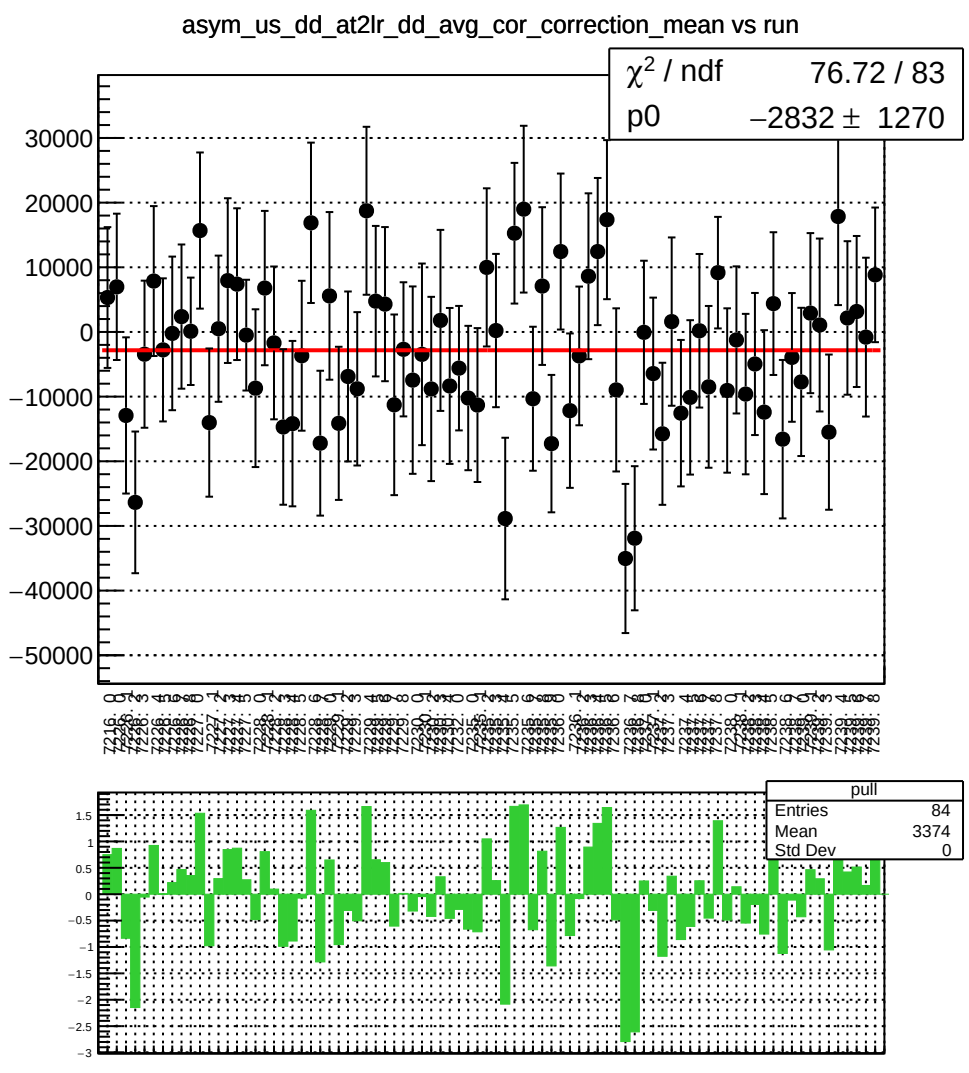

pull1D
Entries 84
Mean −0.0003279
Std Dev 0.9557

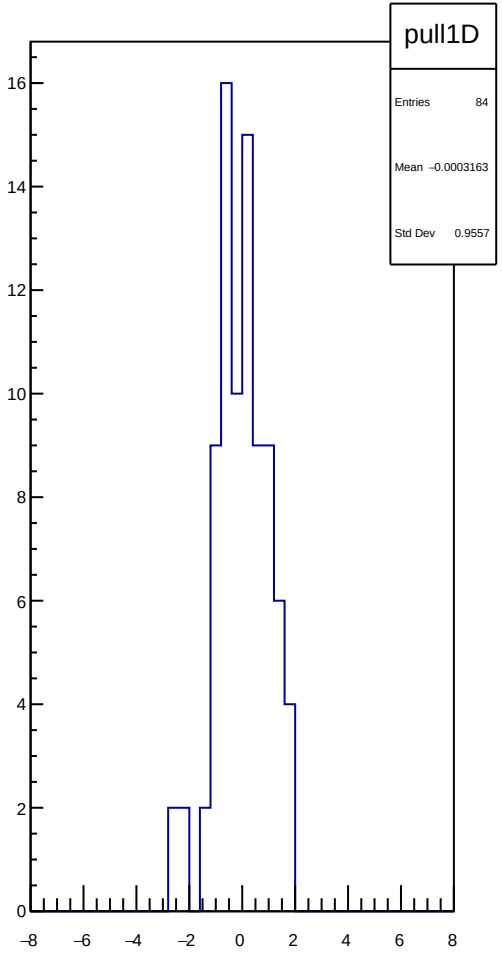

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ² / ndf 7789 / 83
p0 1143 ± 0.8983
1400
1350
1300
1250
1200
1150
1100
1050
1000

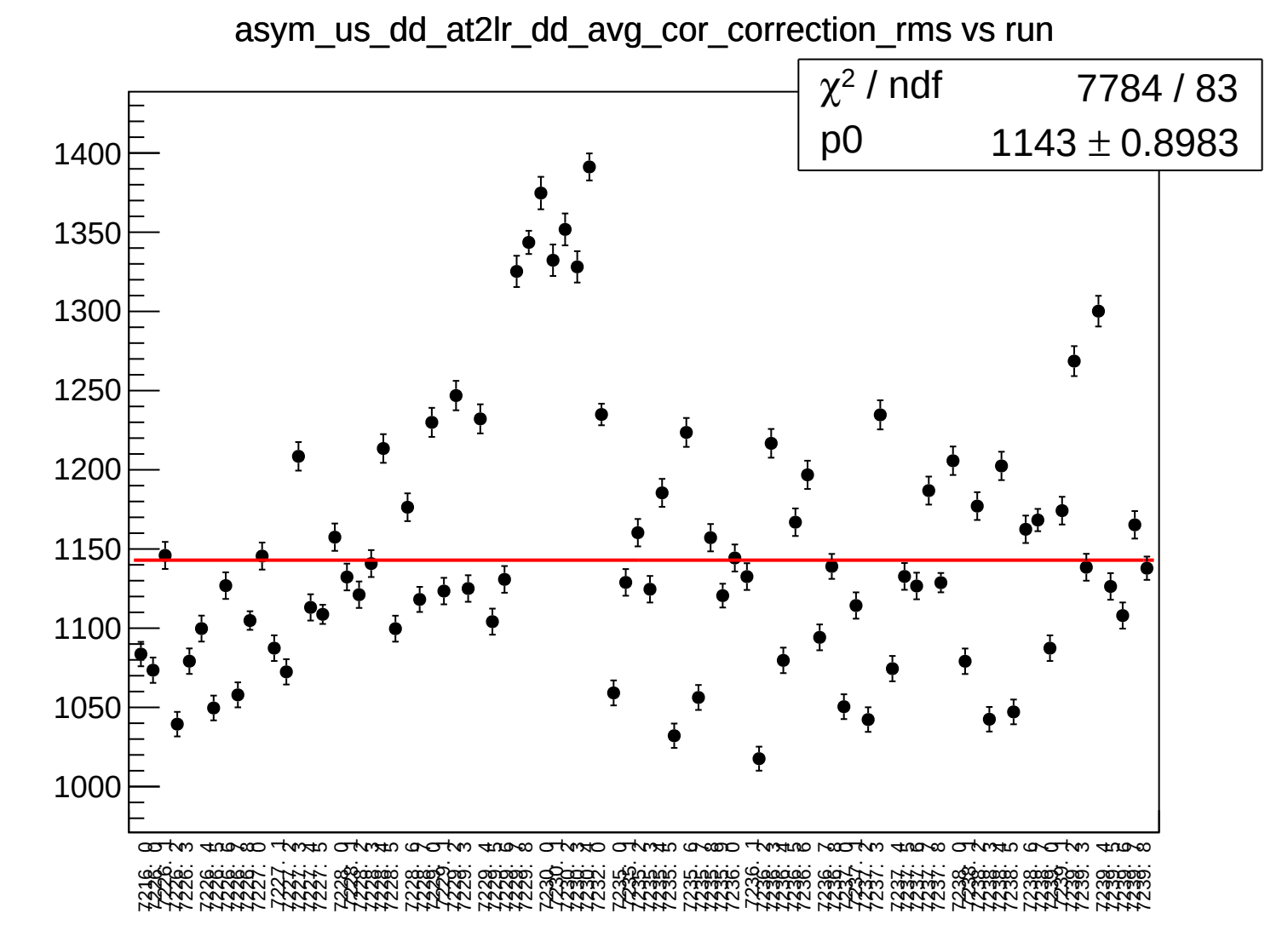

cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 80.51 / 83
p0 1195 ± 2246
pull
Entries 84
Mean 892
Std Dev 0

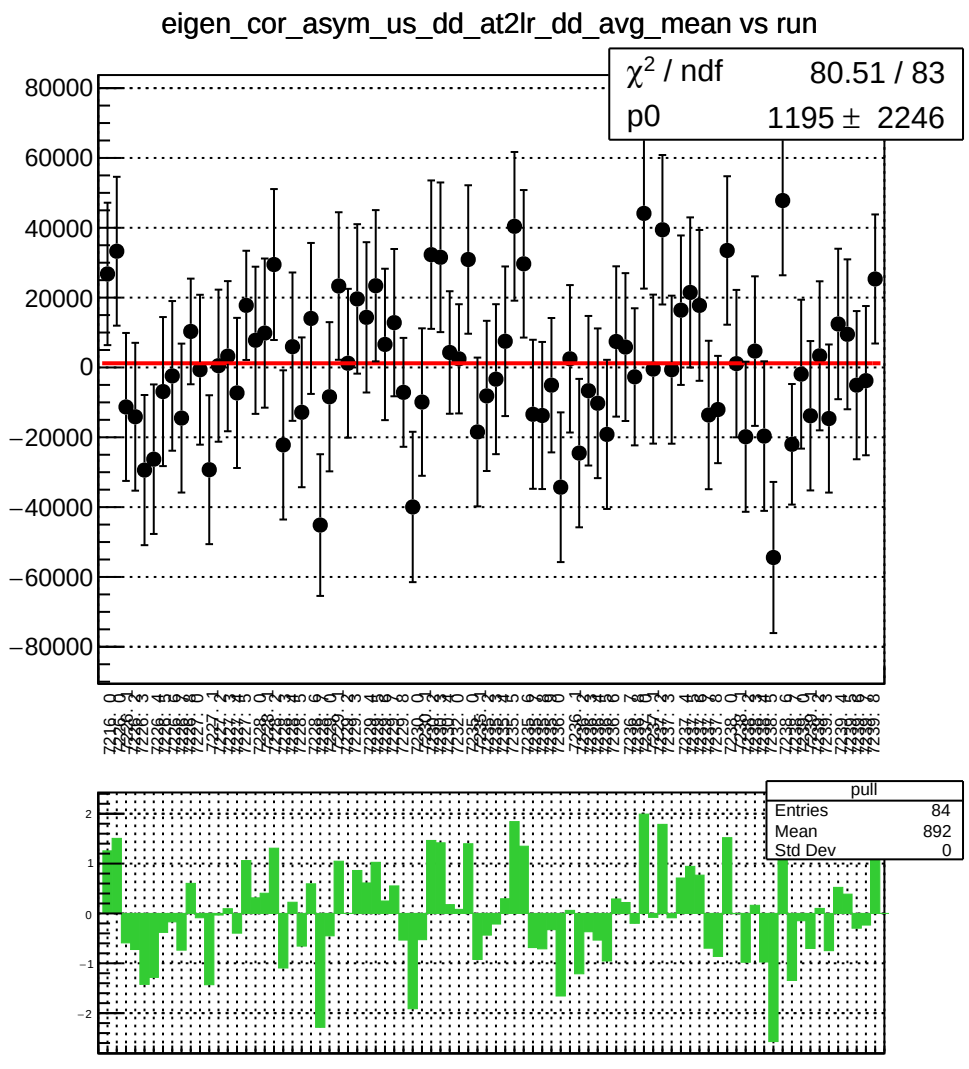

pull1D
Entries 84
Mean 0.0006192
Std Dev 0.979

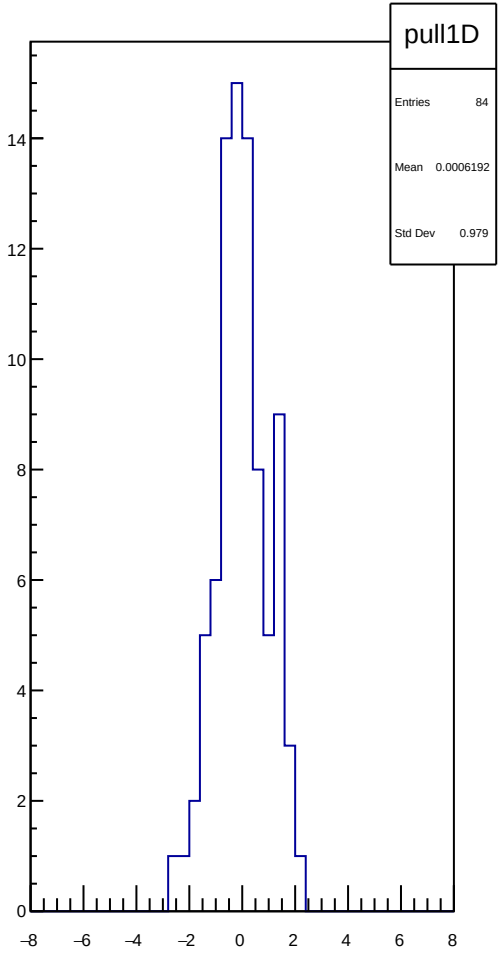

cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 79.92 / 83
p0 2026 ± 1.588
2080
2060
2040
2020
2000
1980

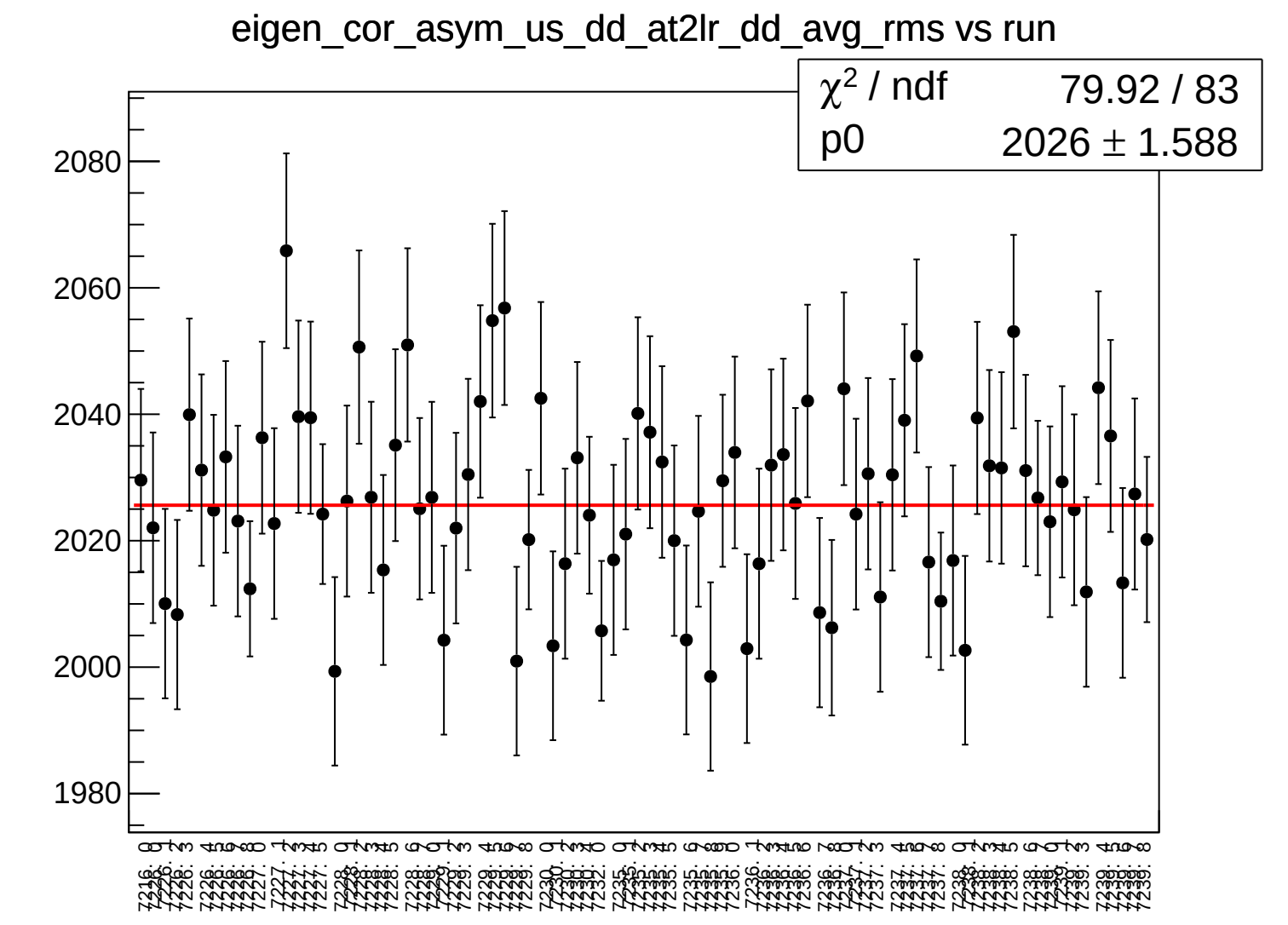

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
χ² / ndf 76.72 / 83
p0 −2832 ± 1270
pull
Entries 84
Mean 3374
Std Dev 0

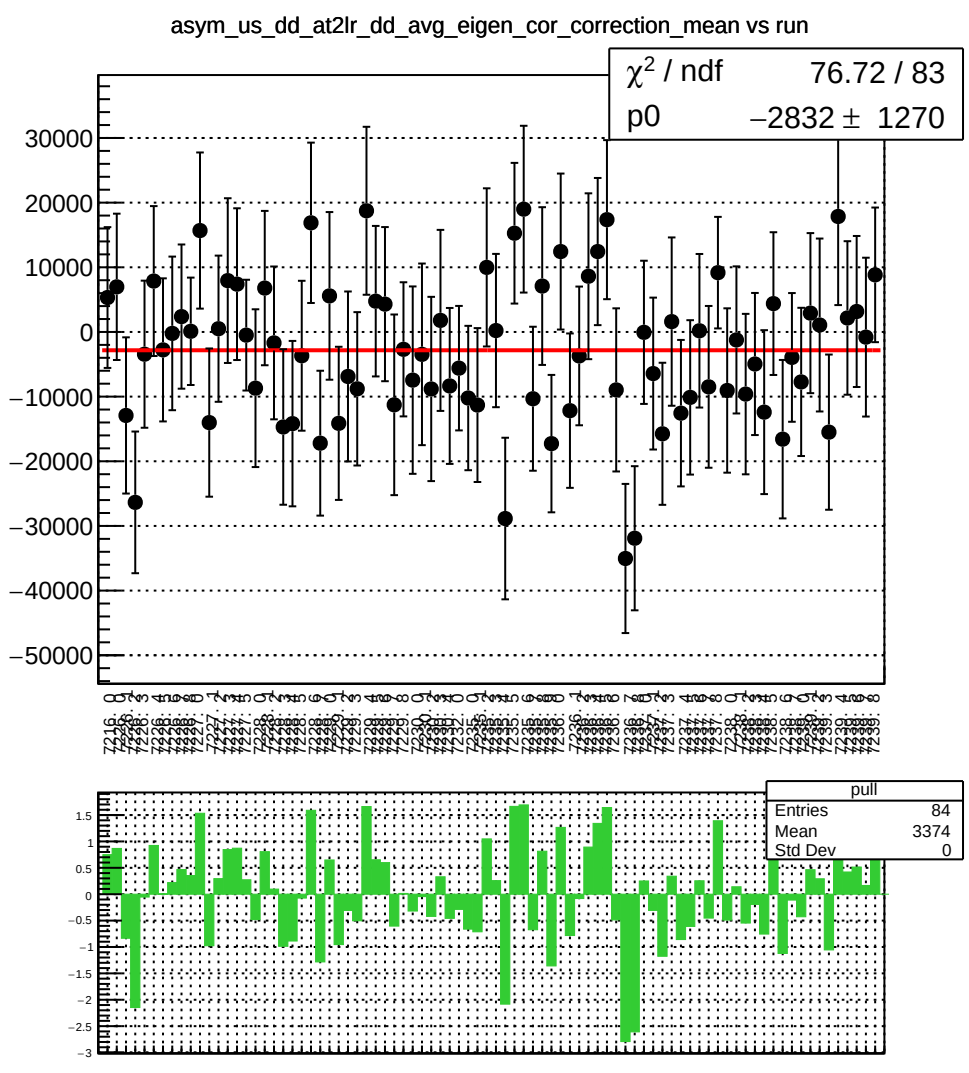

pull1D
Entries 84
Mean −0.0003163
Std Dev 0.9557

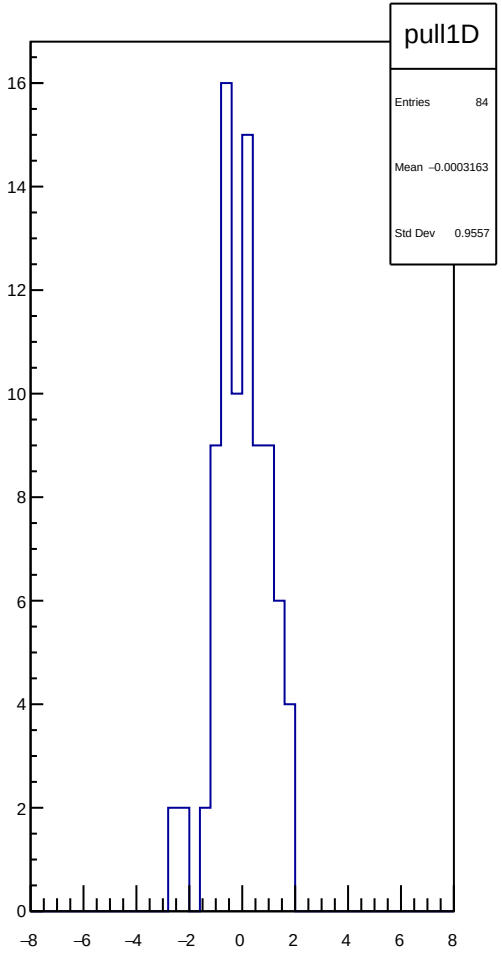

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ^2 / ndf 7784 / 83
p0 1143 ± 0.8983
1400
1350
1300
1250
1200
1150
1100
1050
1000

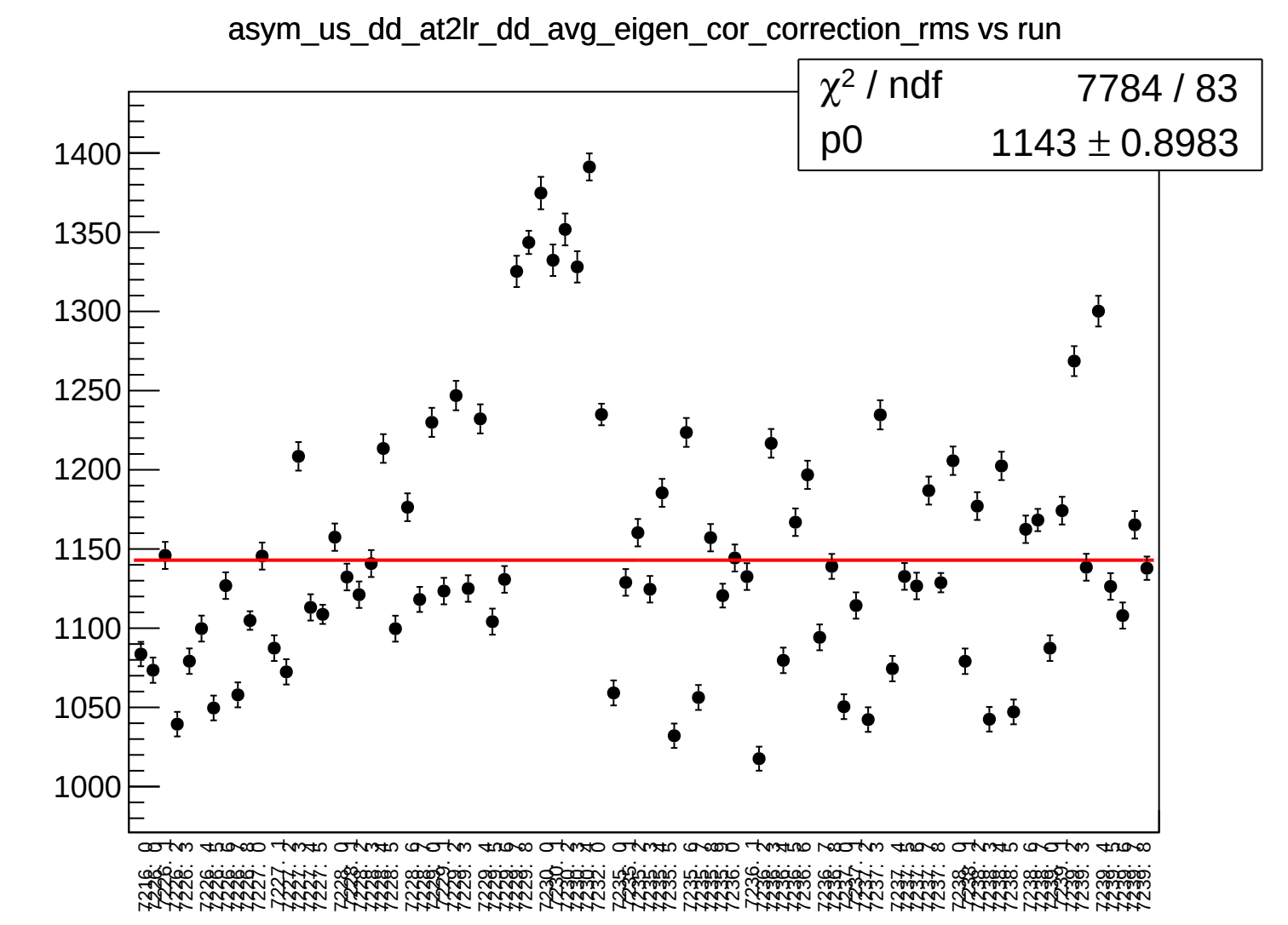

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 80.51 / 83
p0 1195 ± 2246
pull
Entries 84
Mean 892
Std Dev 0

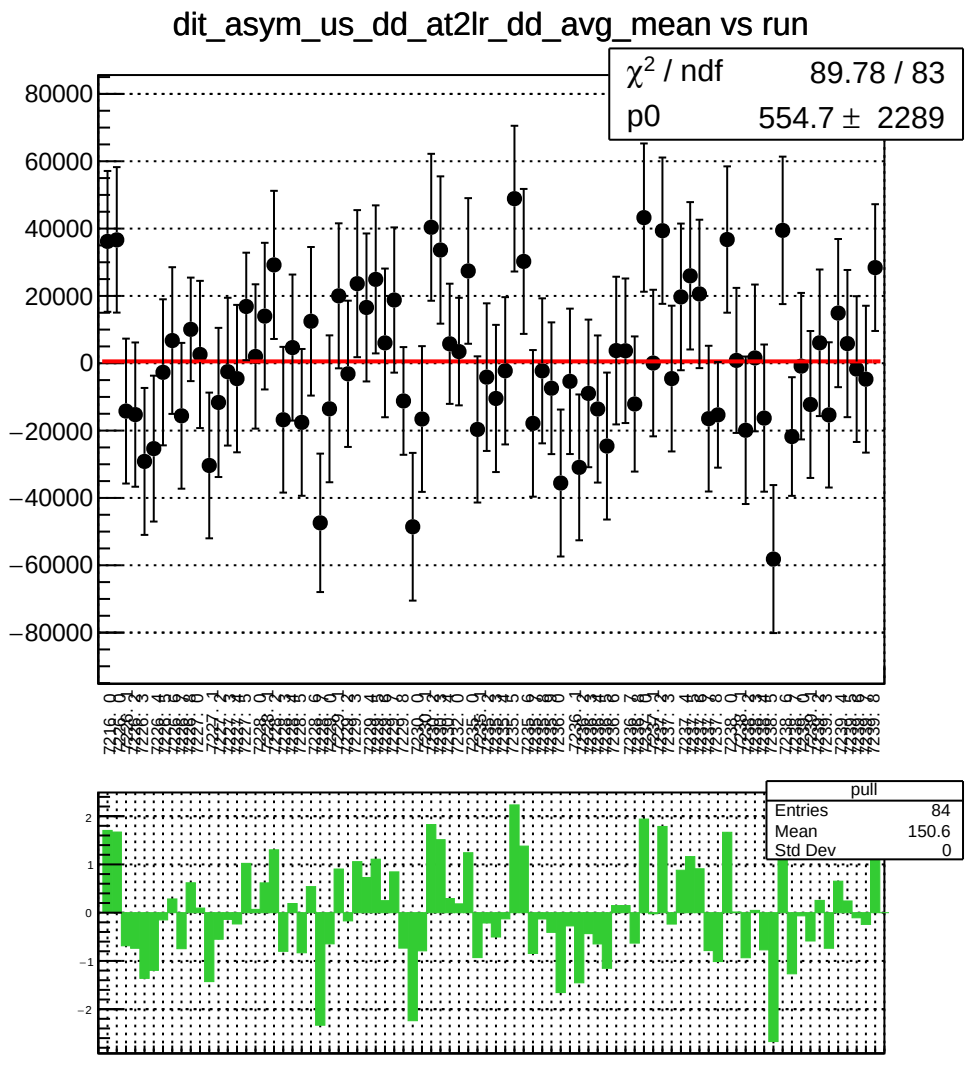

pull1D
Entries 84
Mean 0.0006192
Std Dev 0.979

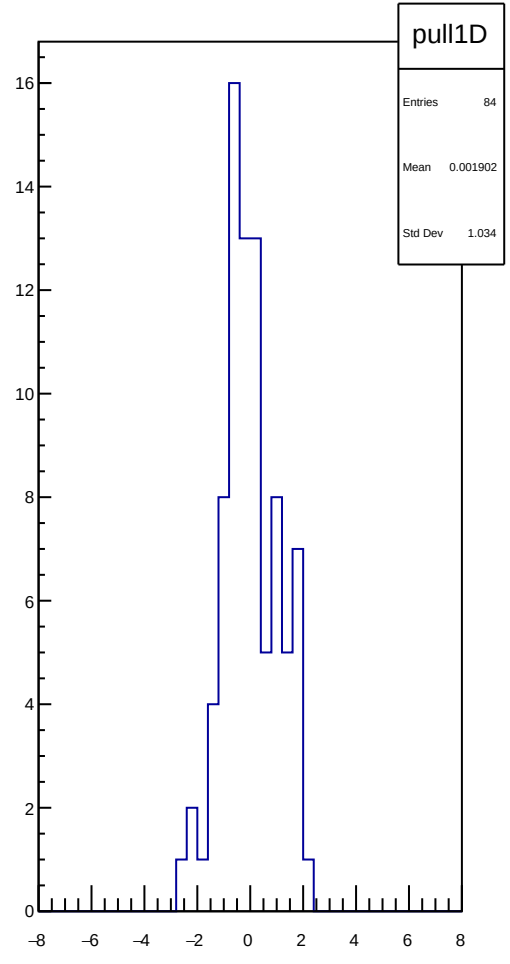

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ^2 / ndf 79.92 / 83
p0 2026 ± 1.588
2080
2060
2040
2020
2000
1980

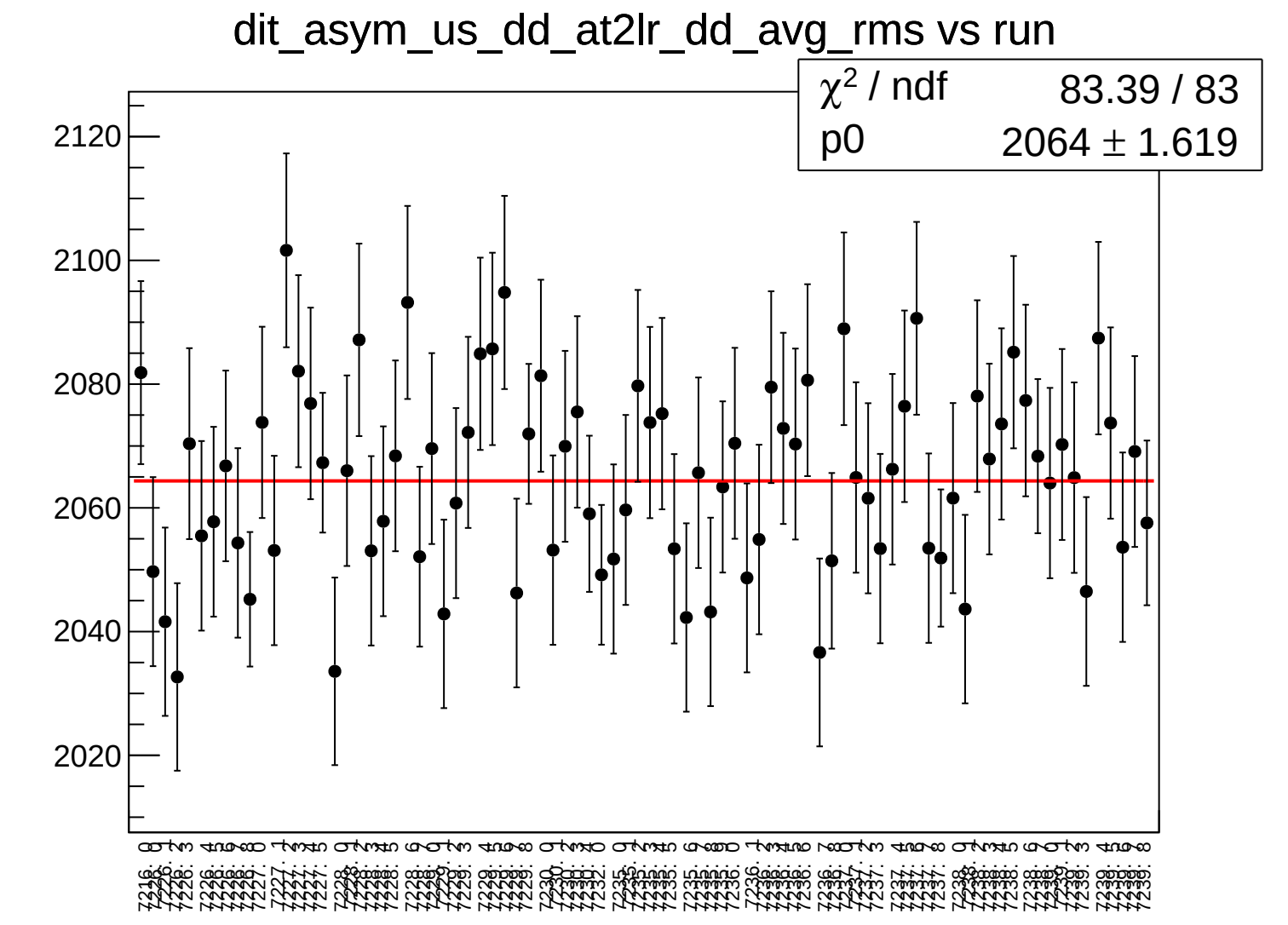

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 76.72 / 83
p0 −2832 ± 1270
pull
Entries 84
Mean 3374
Std Dev 0

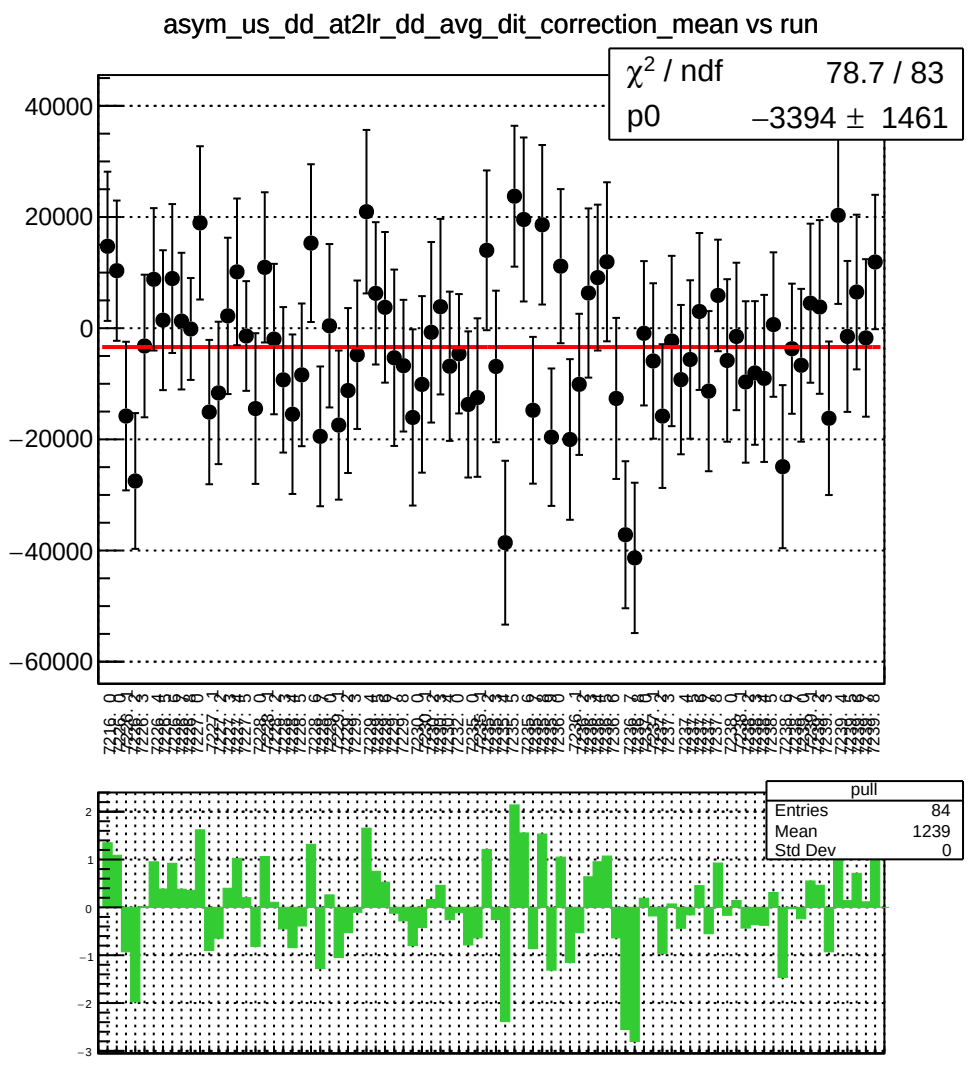

pull1D
Entries 84
Mean −0.0003163
Std Dev 0.9557

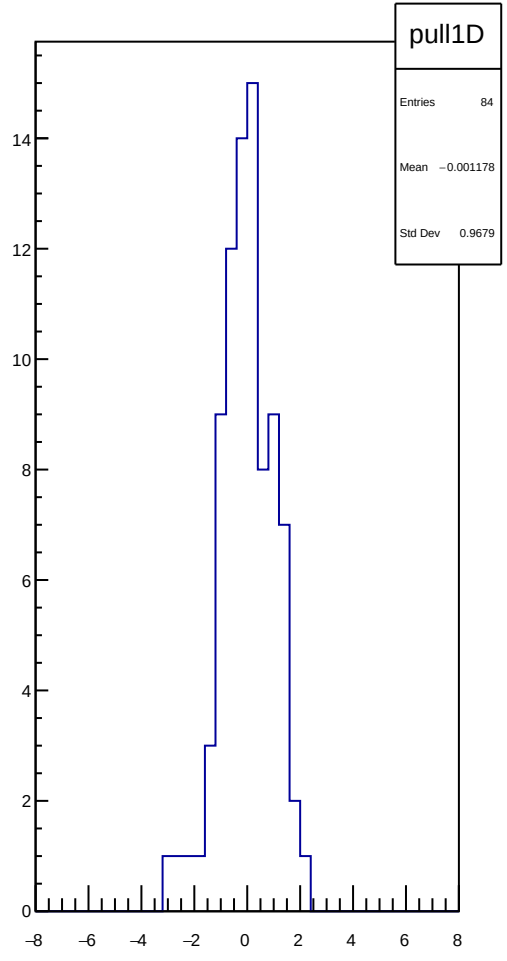

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 7784 / 83
p0 1143 ± 0.8983
1400
1350
1300
1250
1200
1150
1100
1050
1000

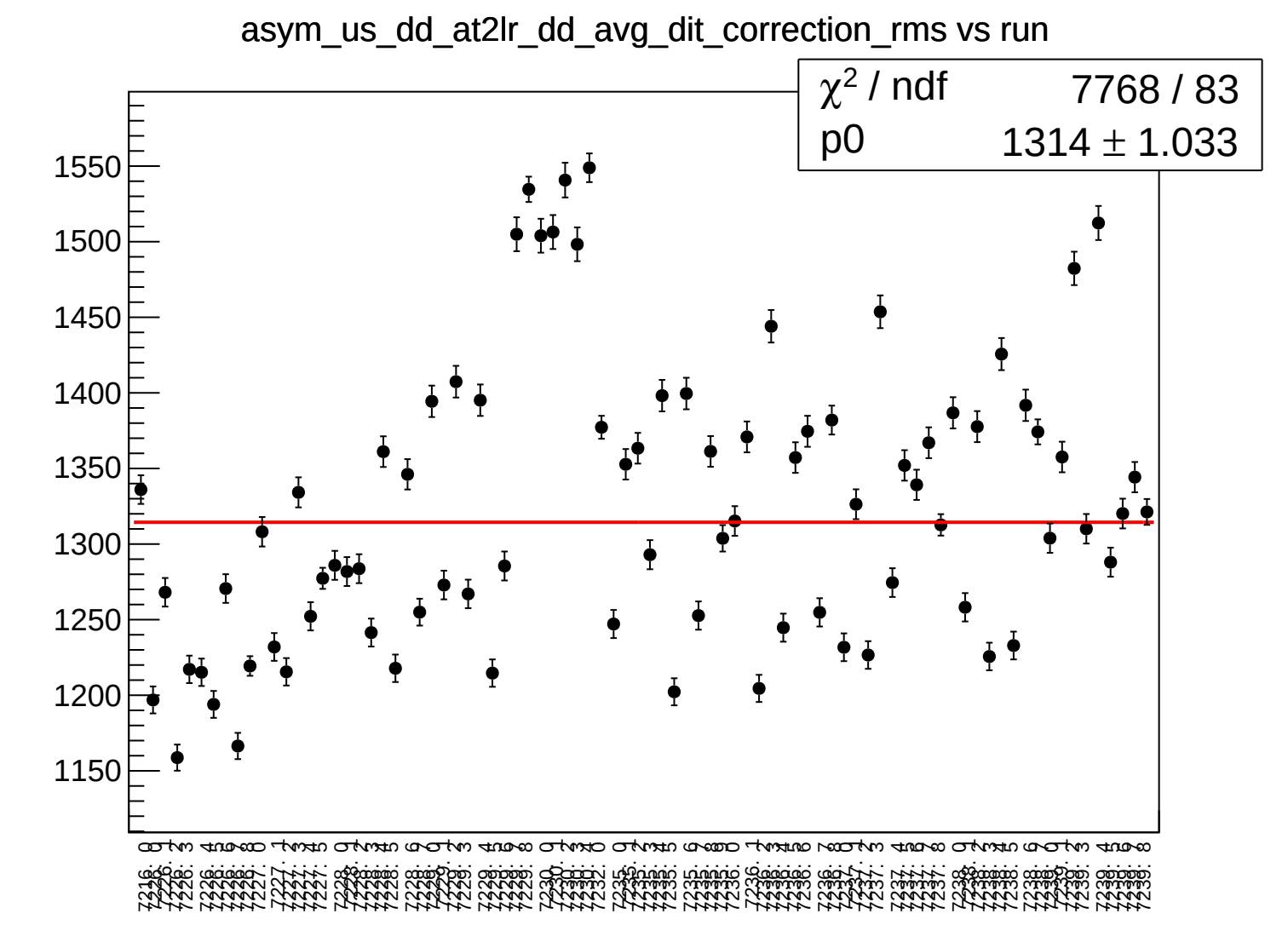

dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 89.78 / 83
p0 554.7 ± 2289
pull
Entries 84
Mean 150.6
Std Dev 0

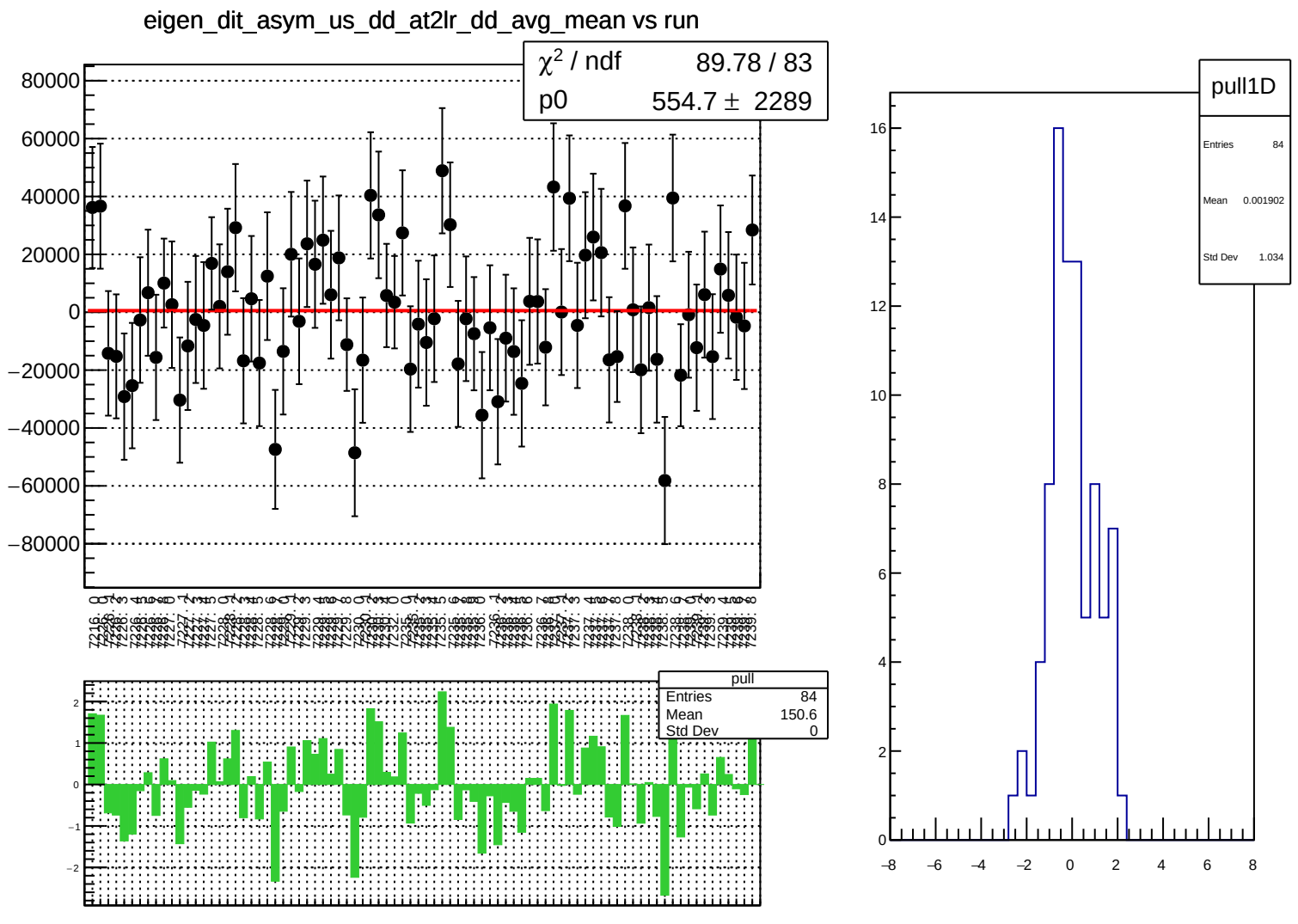

pull1D
Entries 84
Mean 0.001902
Std Dev 1.034

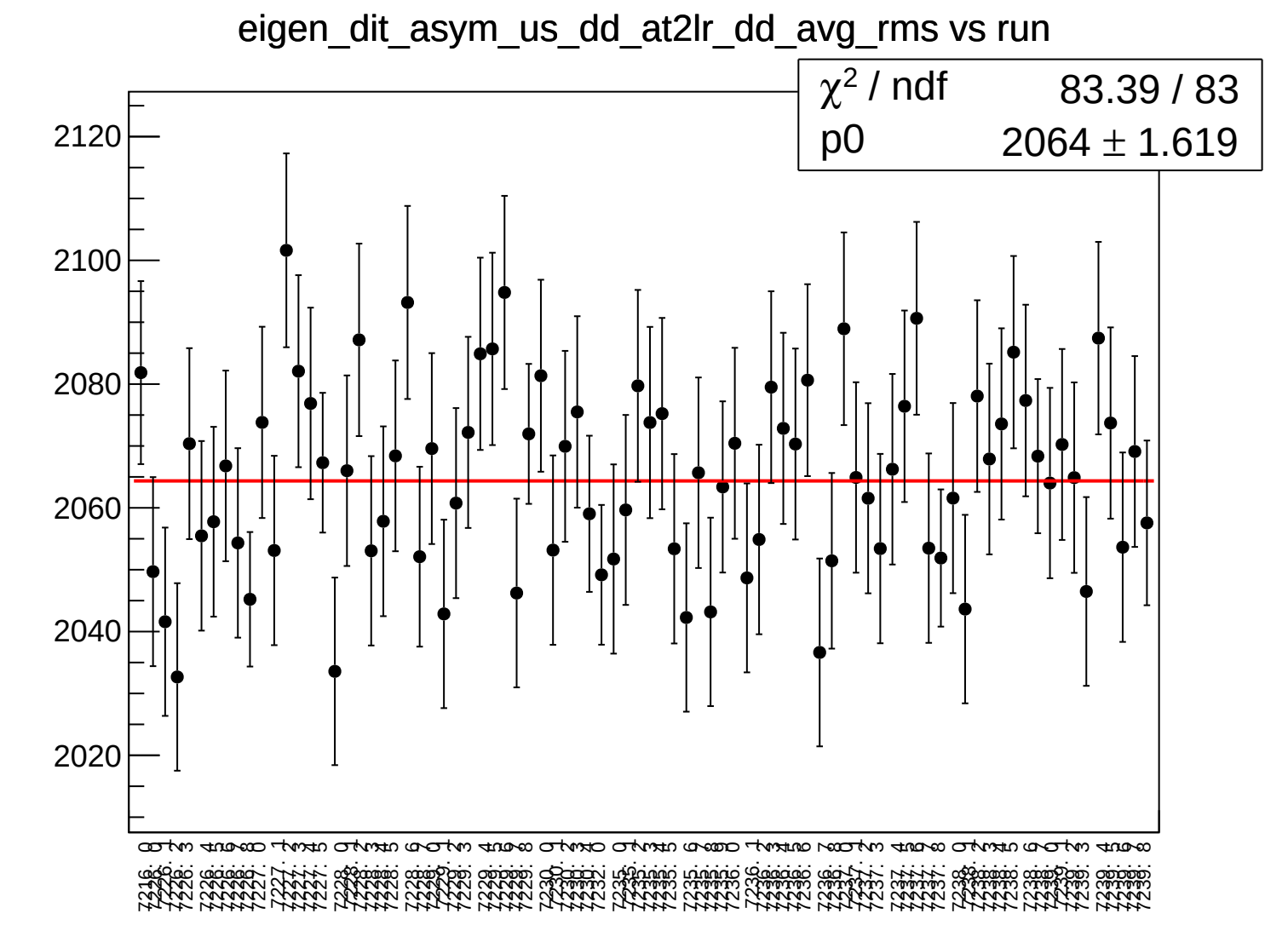

dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 83.39 / 83
p0 2064 ± 1.619
2120
2100
2080
2060
2040
2020

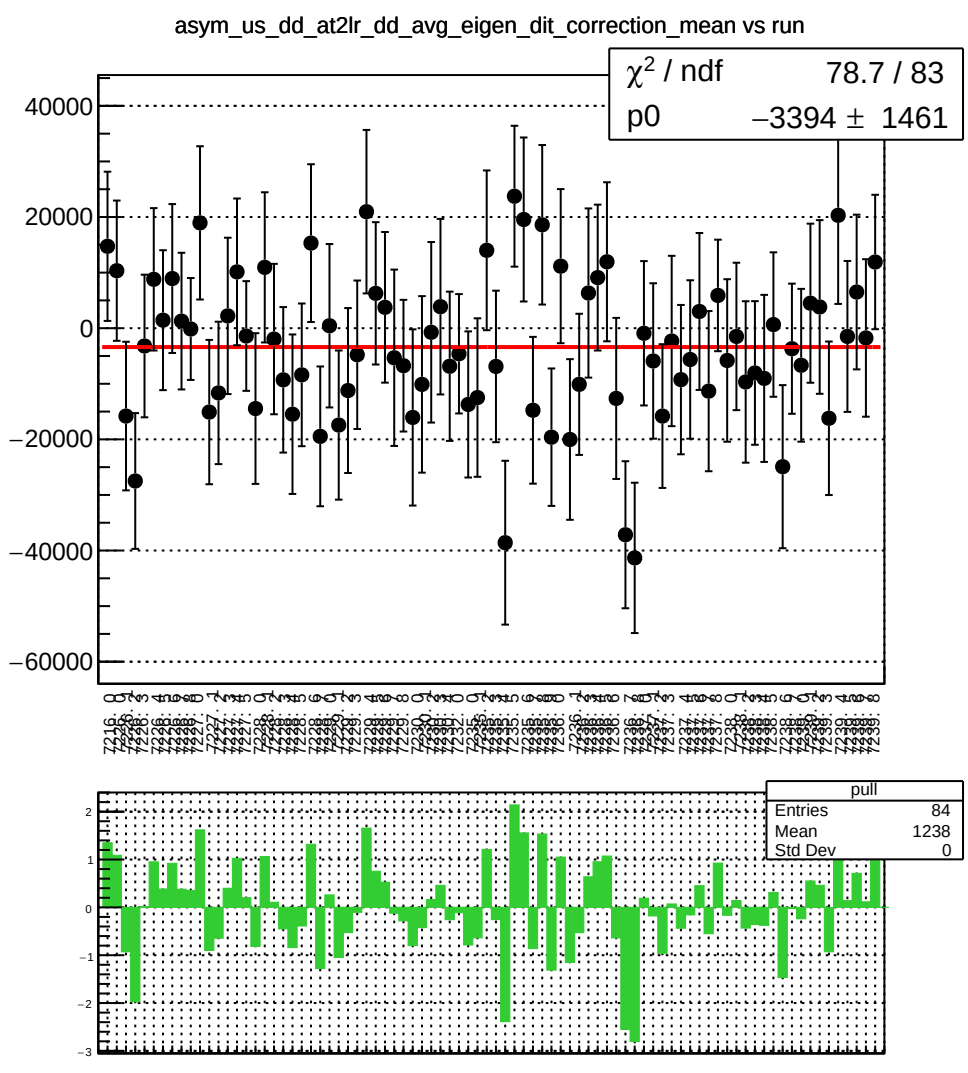

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
χ² / ndf 78.7 / 83
p0 −3394 ± 1461
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 1239
Std Dev 0
2
1
0
−1
−2
−3

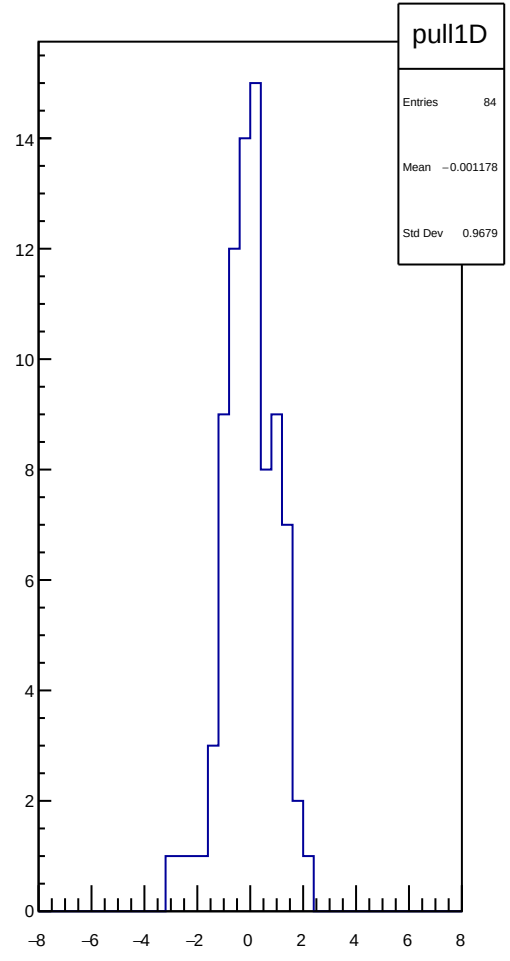

pull1D
Entries 84
Mean −0.001178
Std Dev 0.9679
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

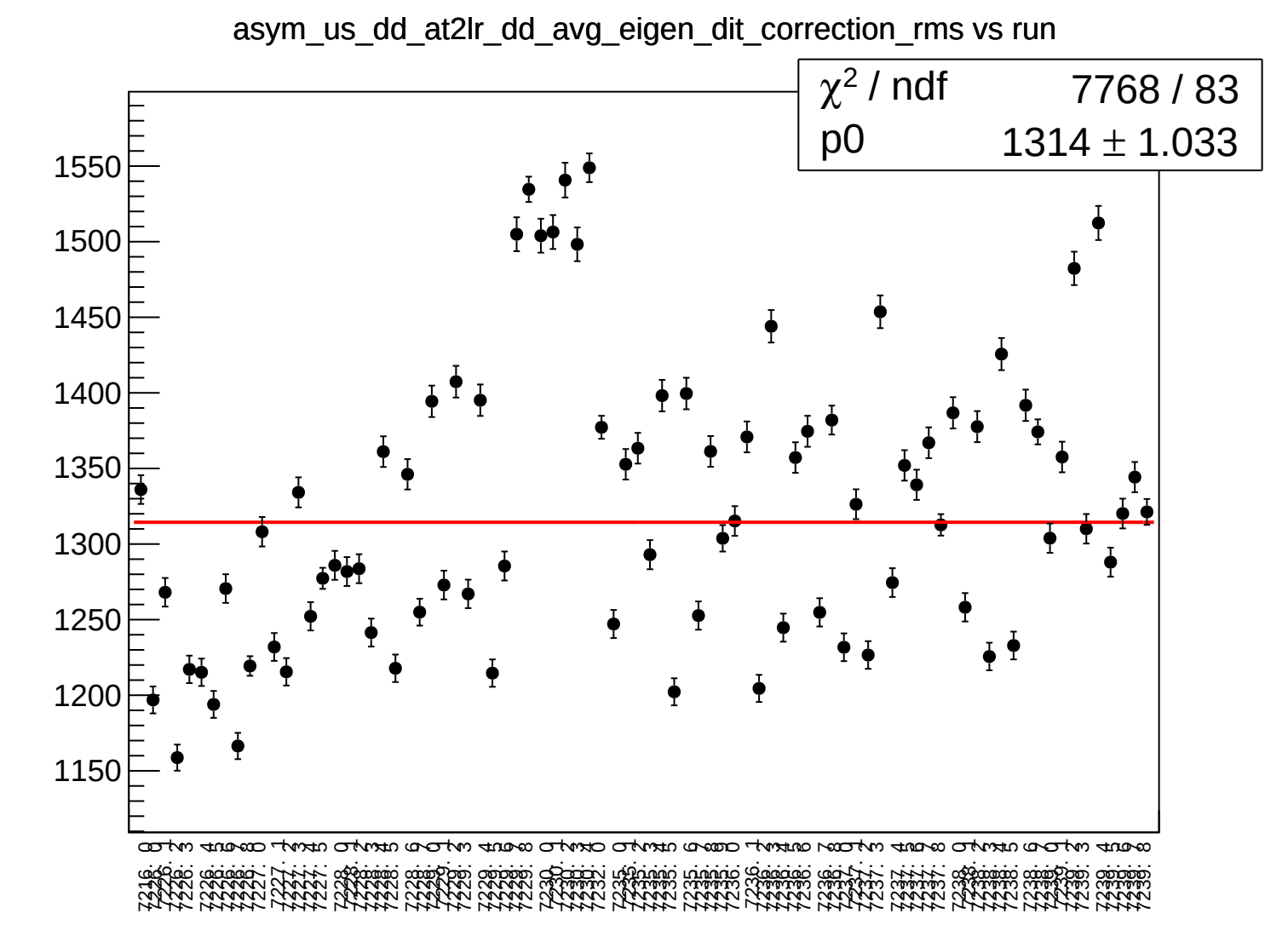

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 7768 / 83
p0 1314 ± 1.033
1550
1500
1450
1400
1350
1300
1250
1200
1150

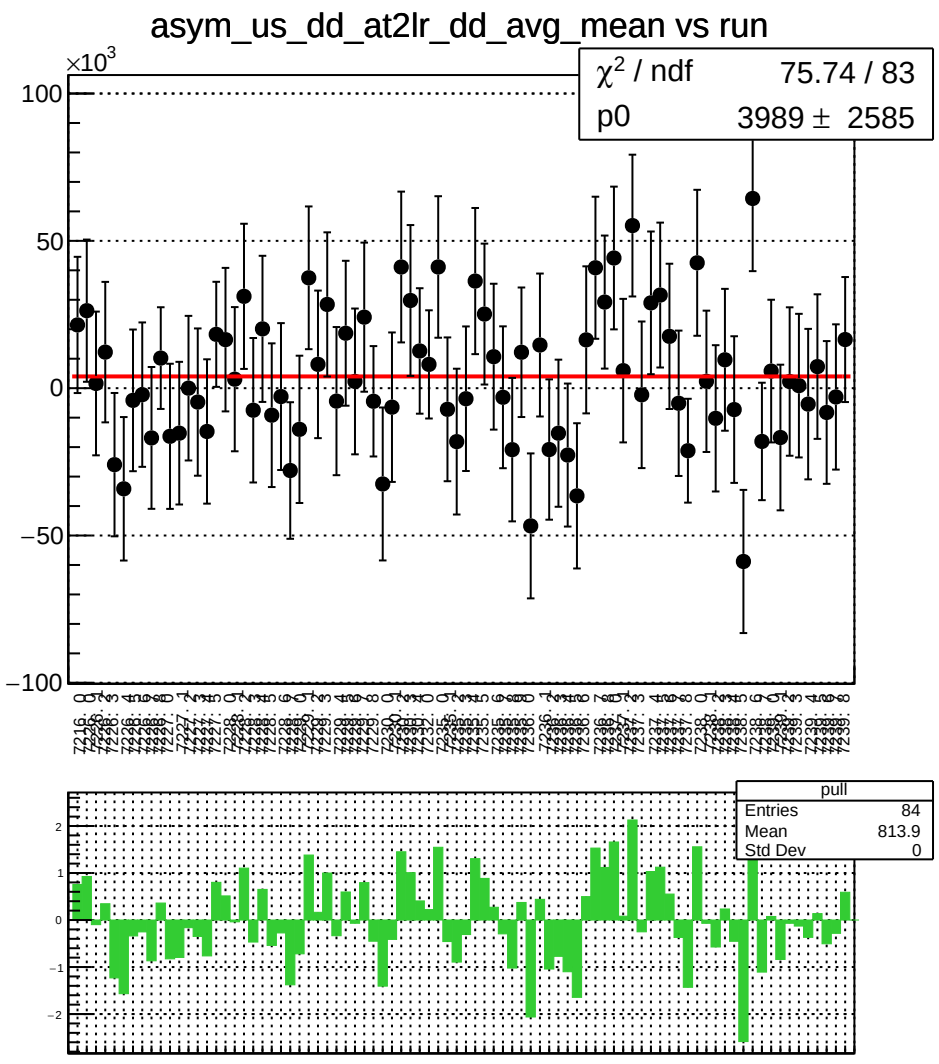

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 89.78 / 83
p0 554.7 ± 2289
pull
Entries 84
Mean 150.6
Std Dev 0
pull1D
Entries 84
Mean 0.001902
Std Dev 1.034

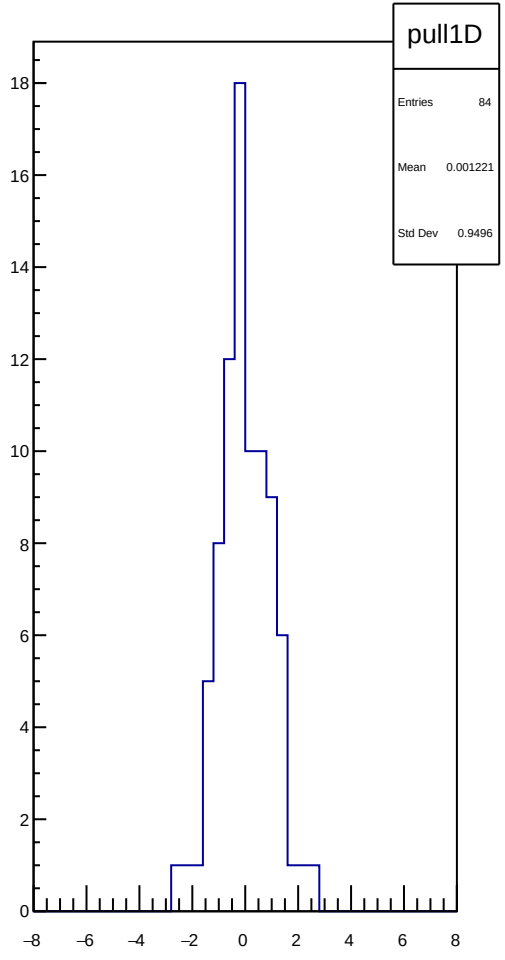

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ^2 / ndf 83.39 / 83
p0 2064 ± 1.619
2120
2100
2080
2060
2040
2020

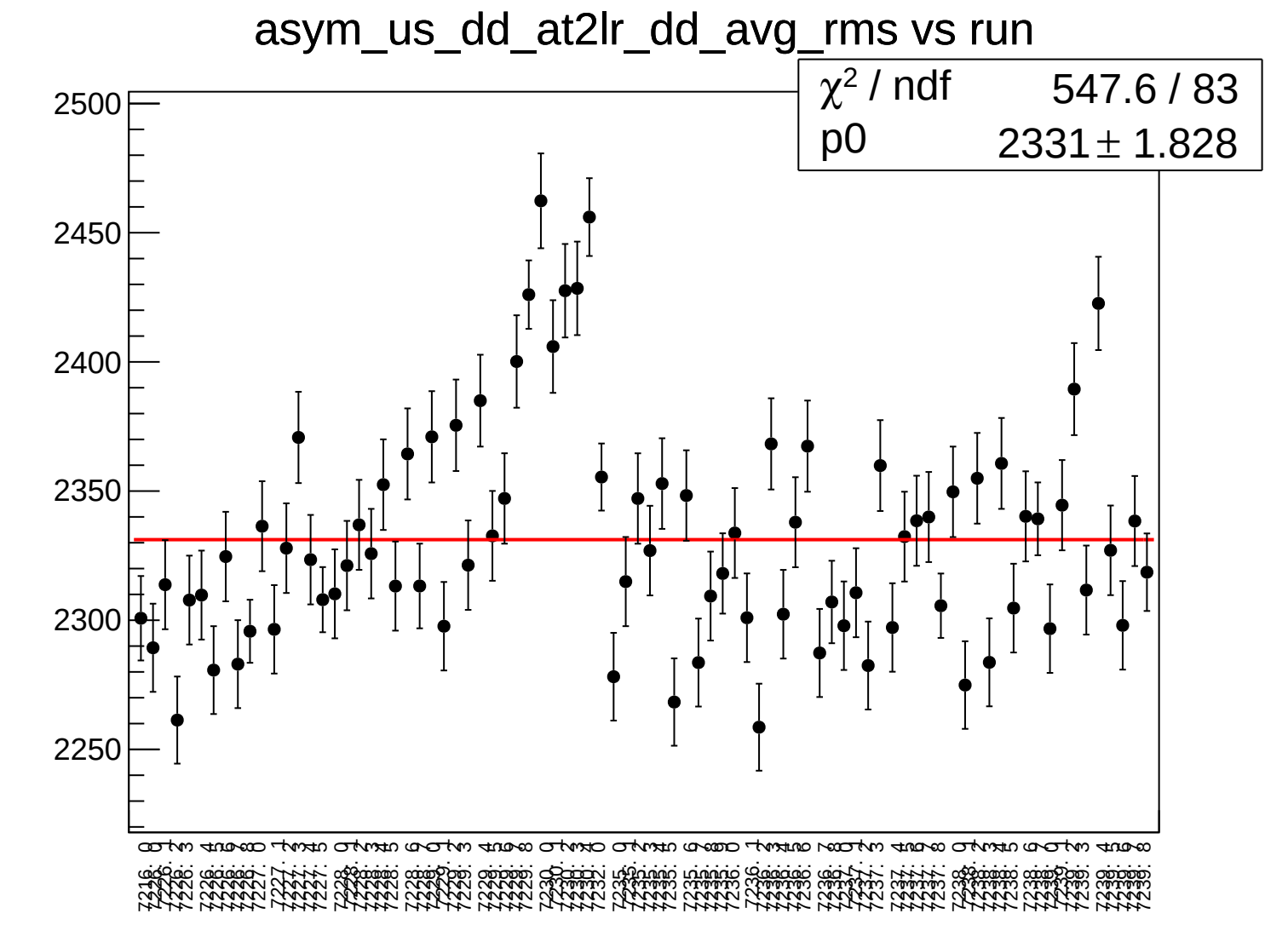

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 78.7 / 83
p0 −3394 ± 1461
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 1238
Std Dev 0
2
1
0
−1
−2
−3

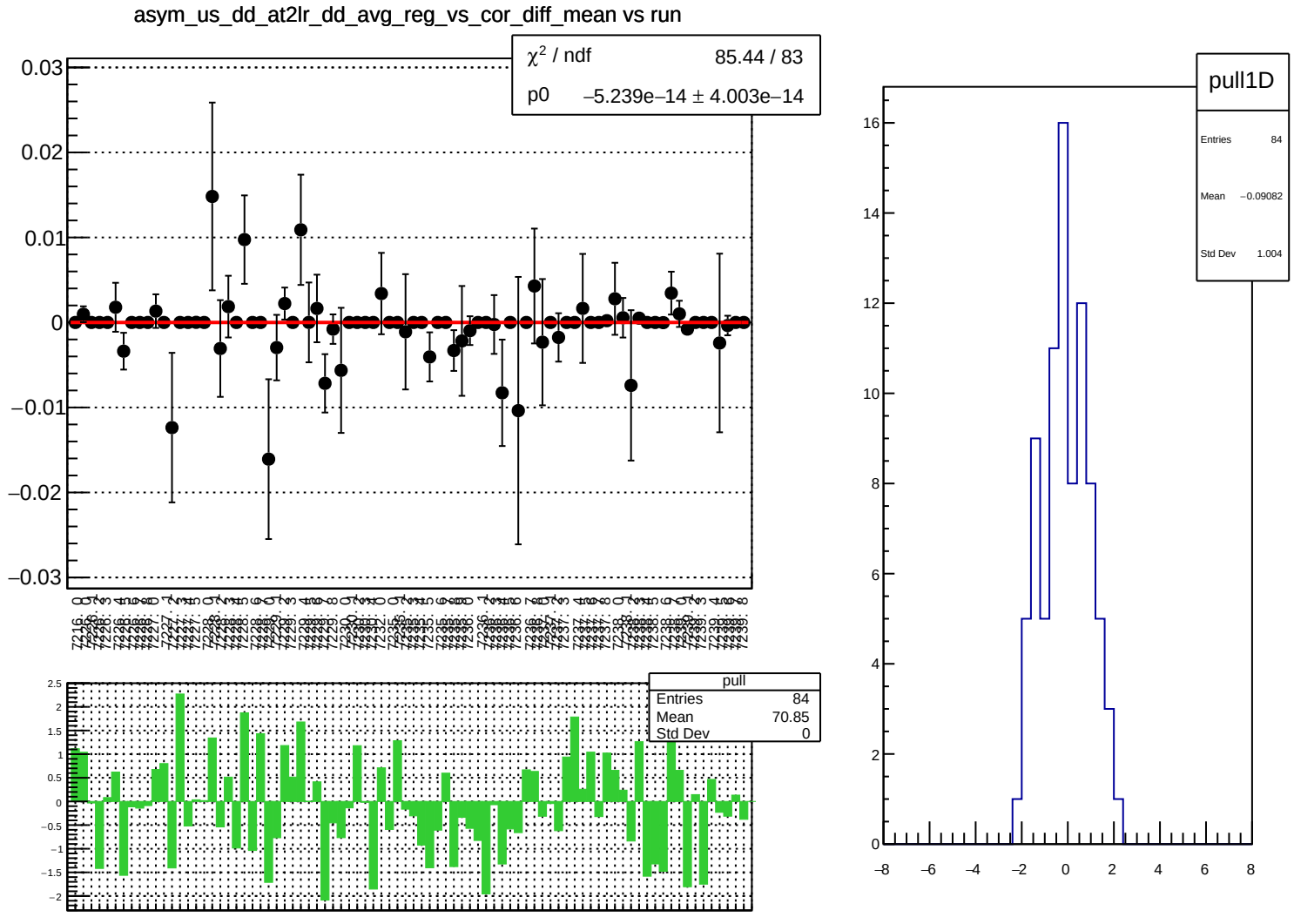

pull1D
Entries 84
Mean −0.001178
Std Dev 0.9679
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

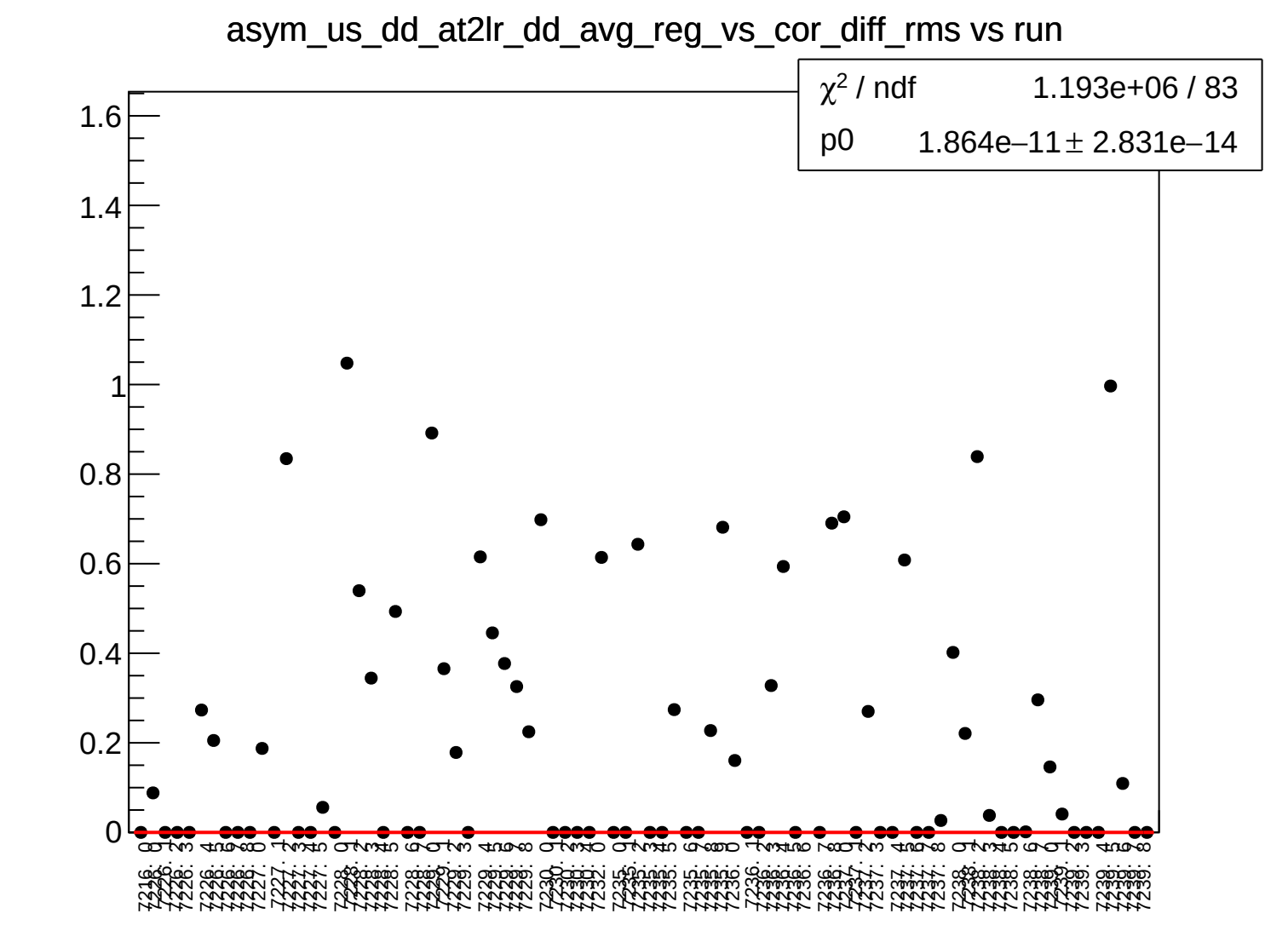

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 7768 / 83
p0 1314 ± 1.033
1550
1500
1450
1400
1350
1300
1250
1200
1150

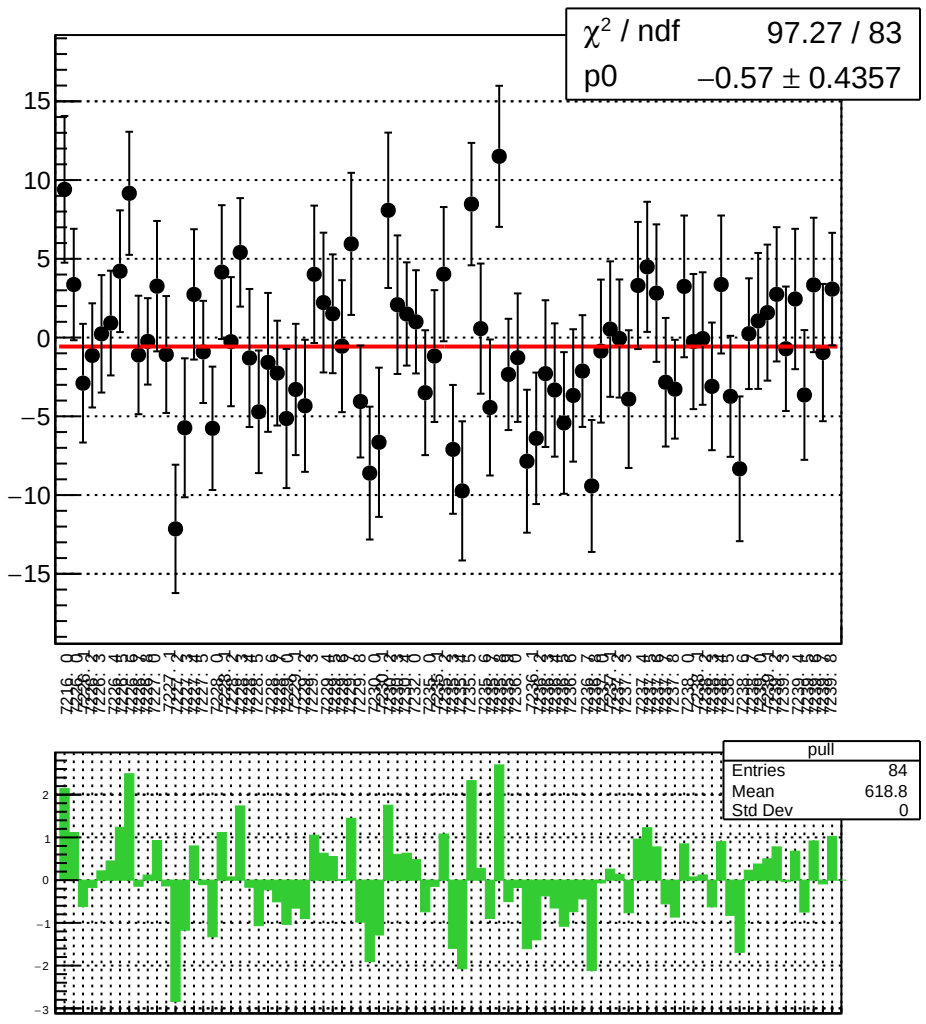

asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 75.74 / 83
p0 3989 ± 2585
100
50
0
−50
−100
pull
Entries 84
Mean 813.9
Std Dev 0
2
1
0
−1
−2

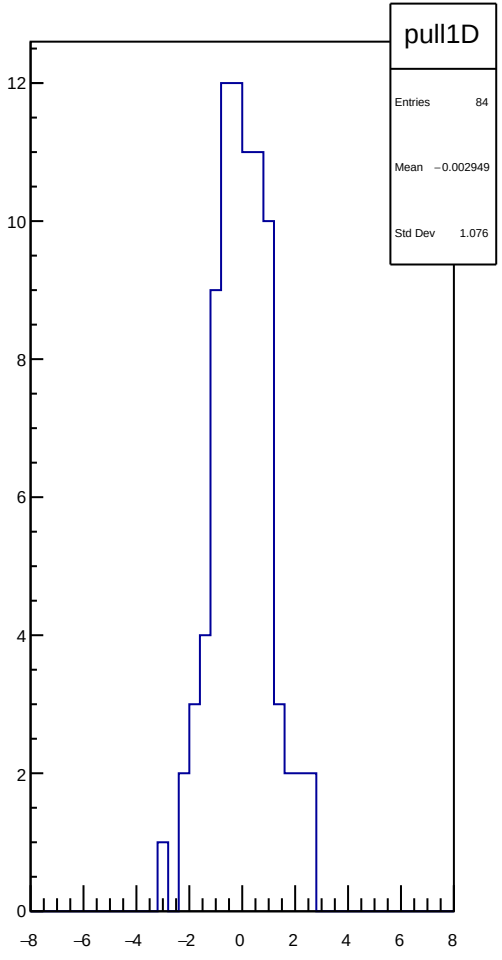

pull1D
Entries 84
Mean 0.001221
Std Dev 0.9496
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

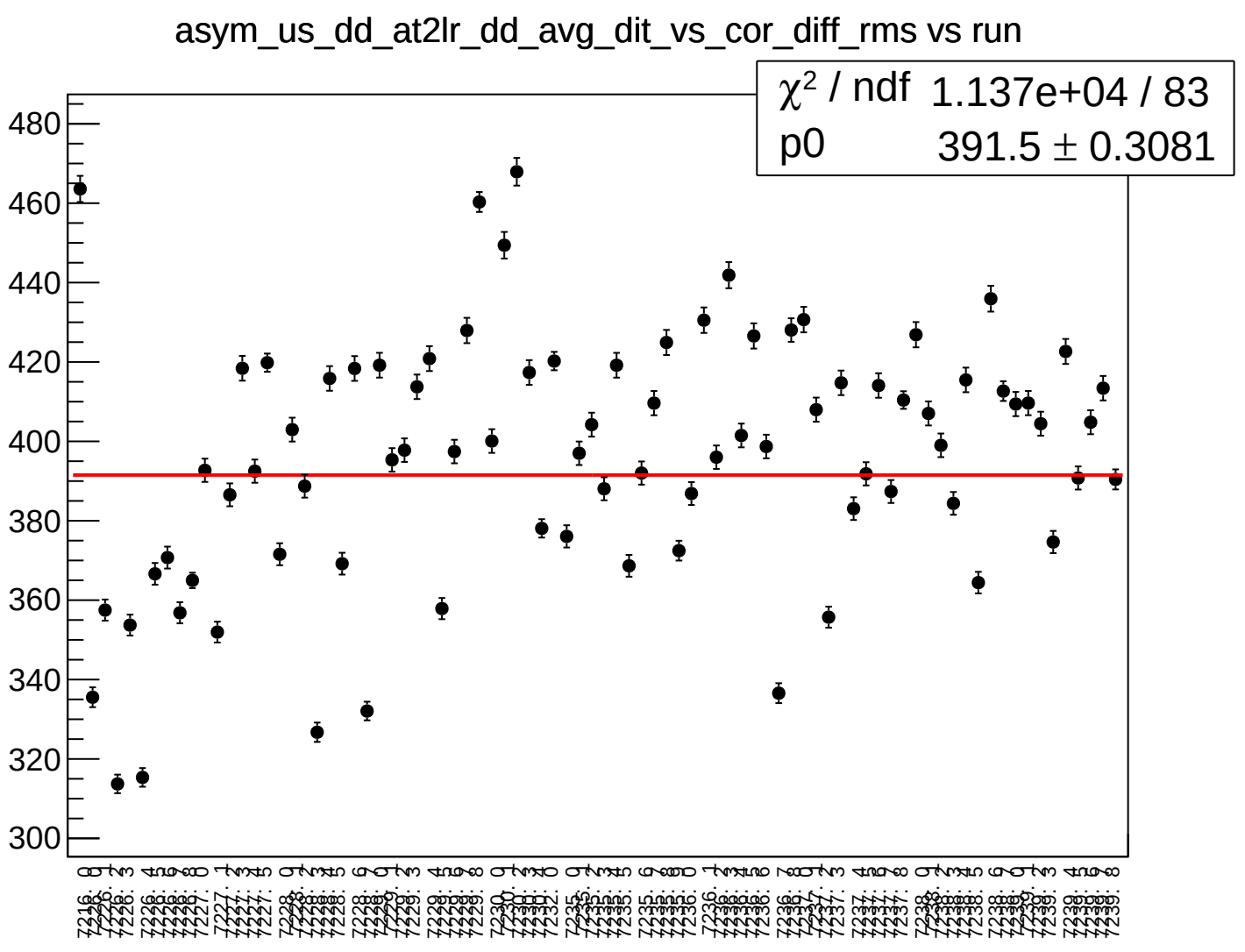

asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 547.6 / 83
p0 2331 ± 1.828
2500
2450
2400
2350
2300
2250

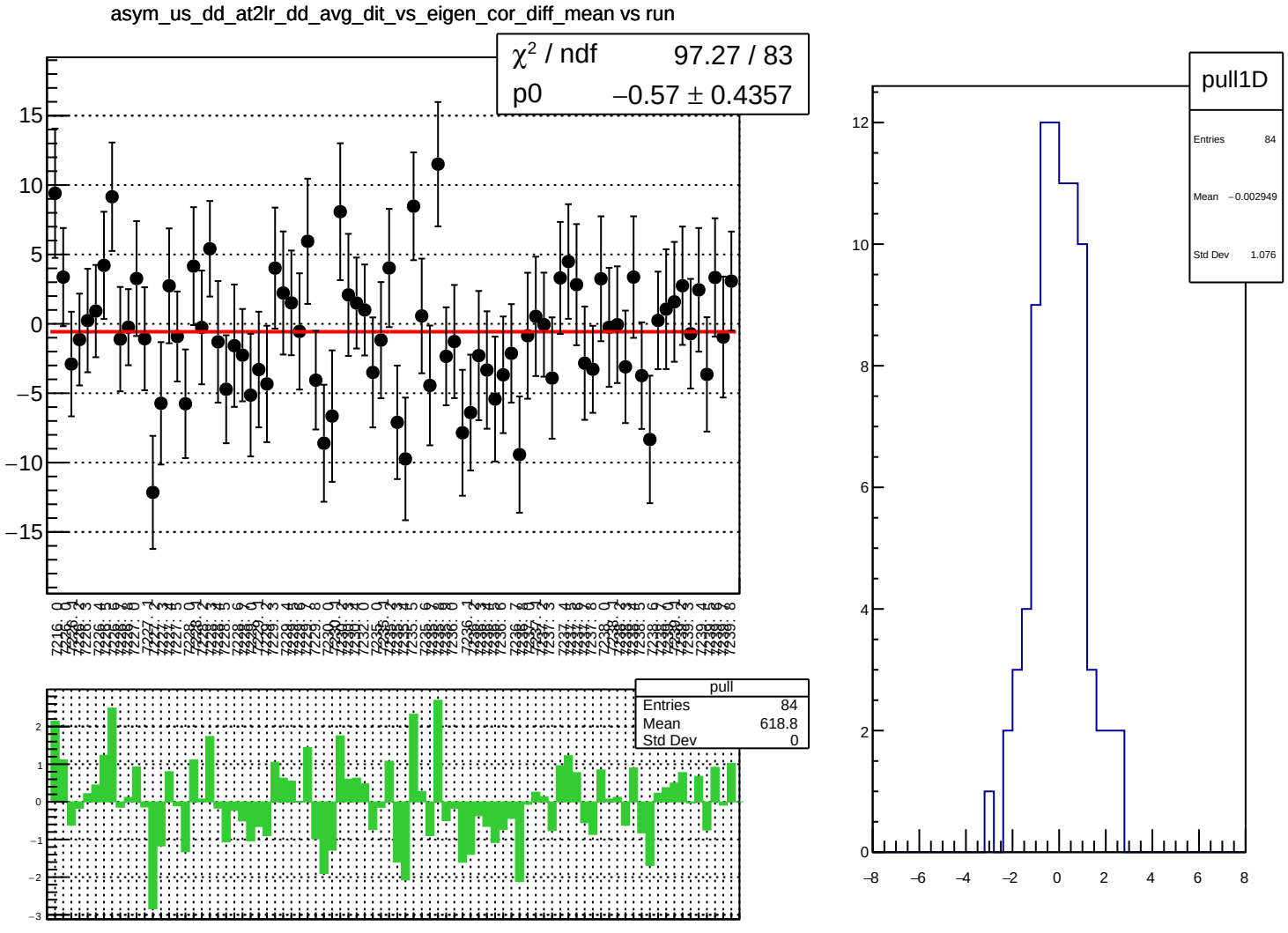

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 85.44 / 83
p0 −5.239e−14 ± 4.003e−14
pull
Entries 84
Mean 70.85
Std Dev 0
pull1D
Entries 84
Mean −0.09082
Std Dev 1.004

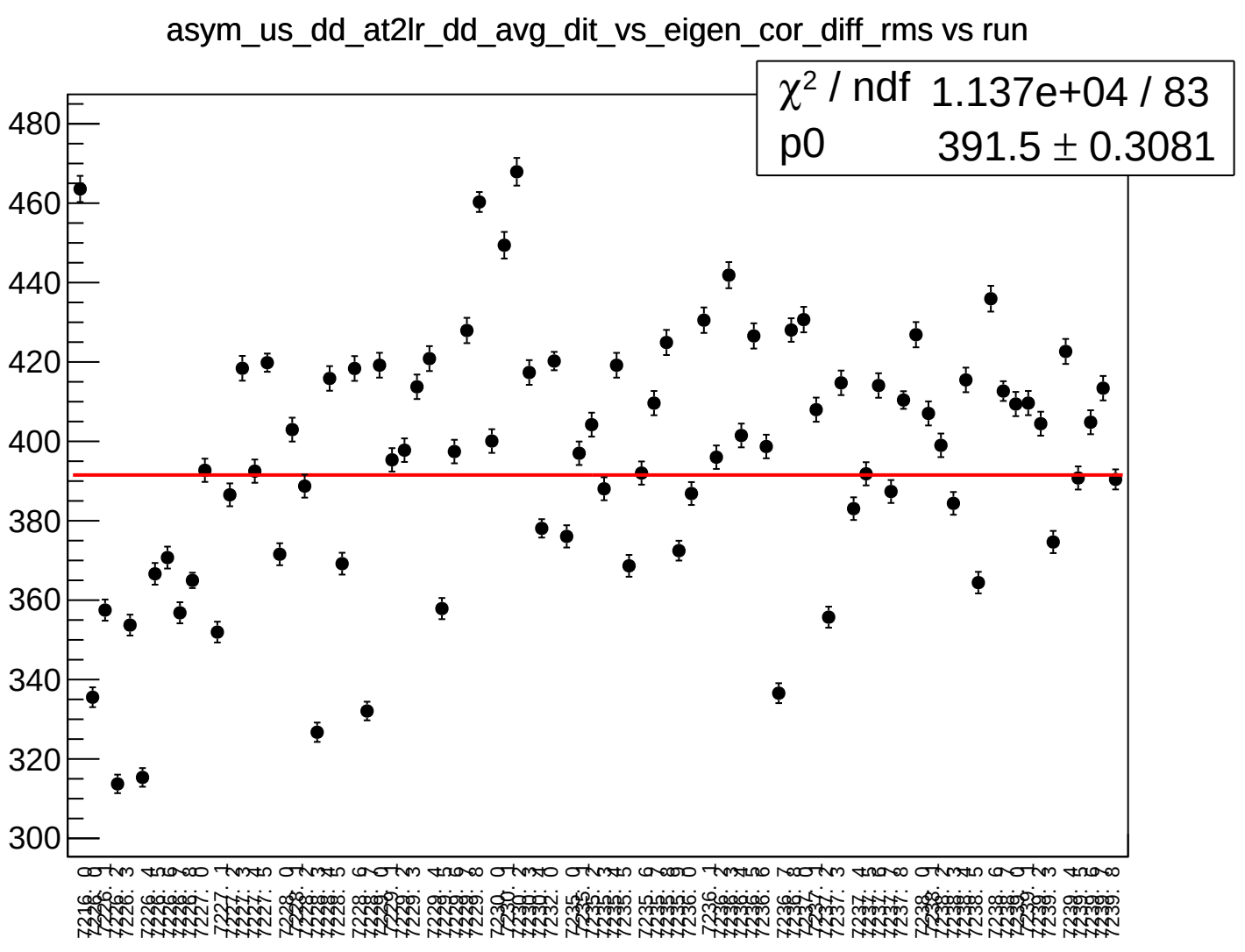

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.193e+06 / 83
p0 1.864e−11 ± 2.831e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

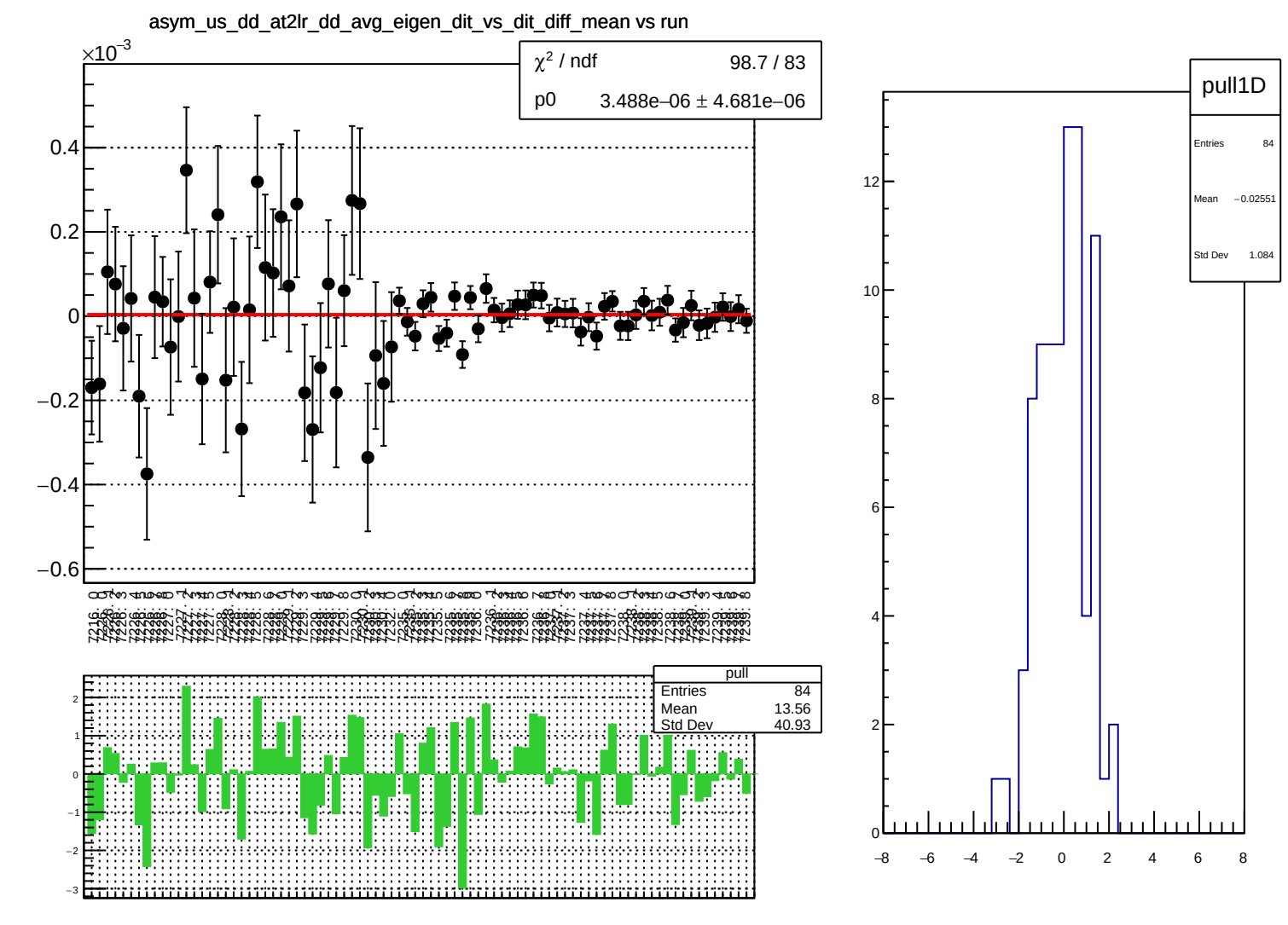

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 97.27 / 83
p0 −0.57 ± 0.4357
pull
Entries 84
Mean 618.8
Std Dev 0

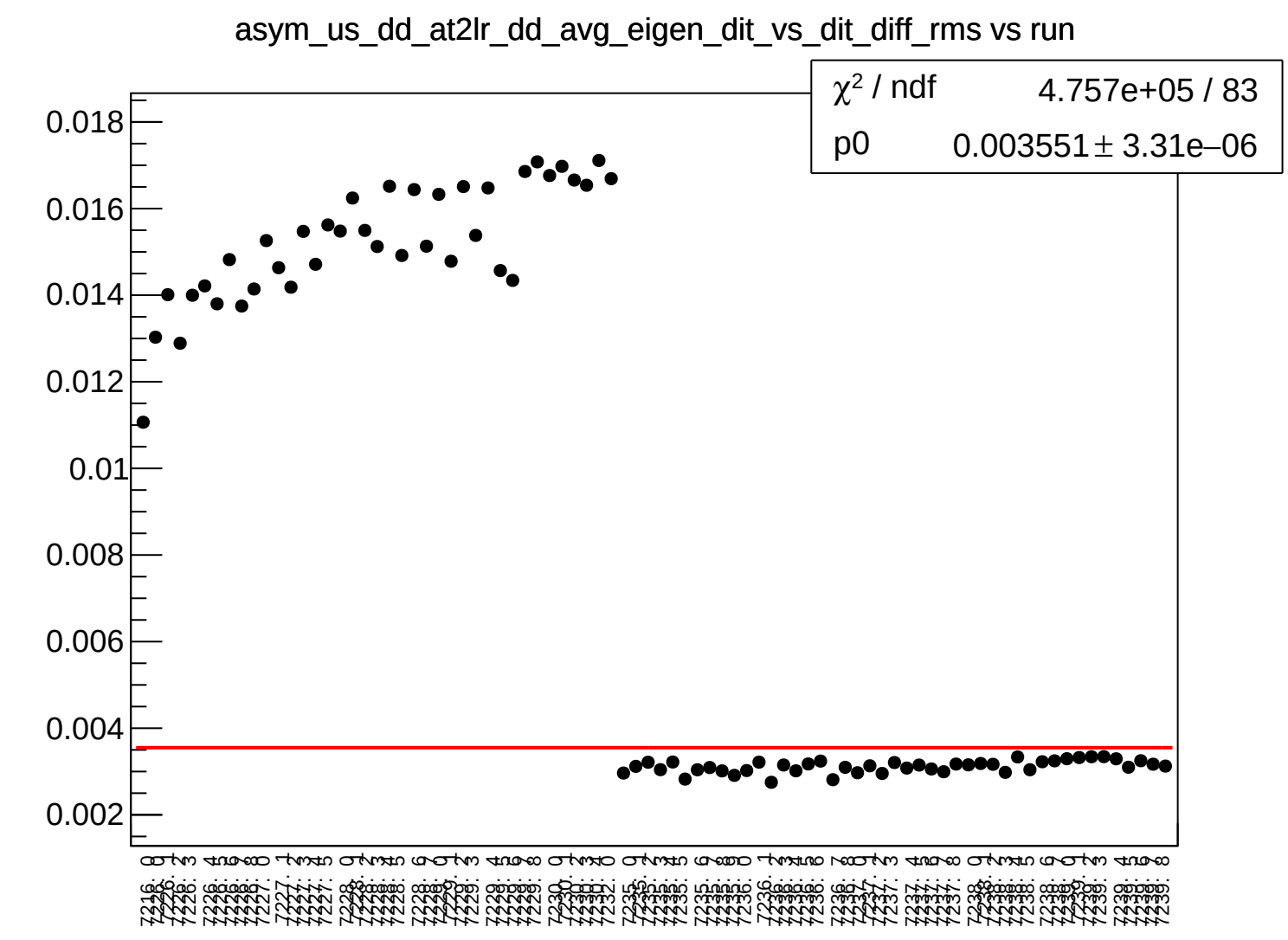

pull1D
Entries 84
Mean −0.002949
Std Dev 1.076

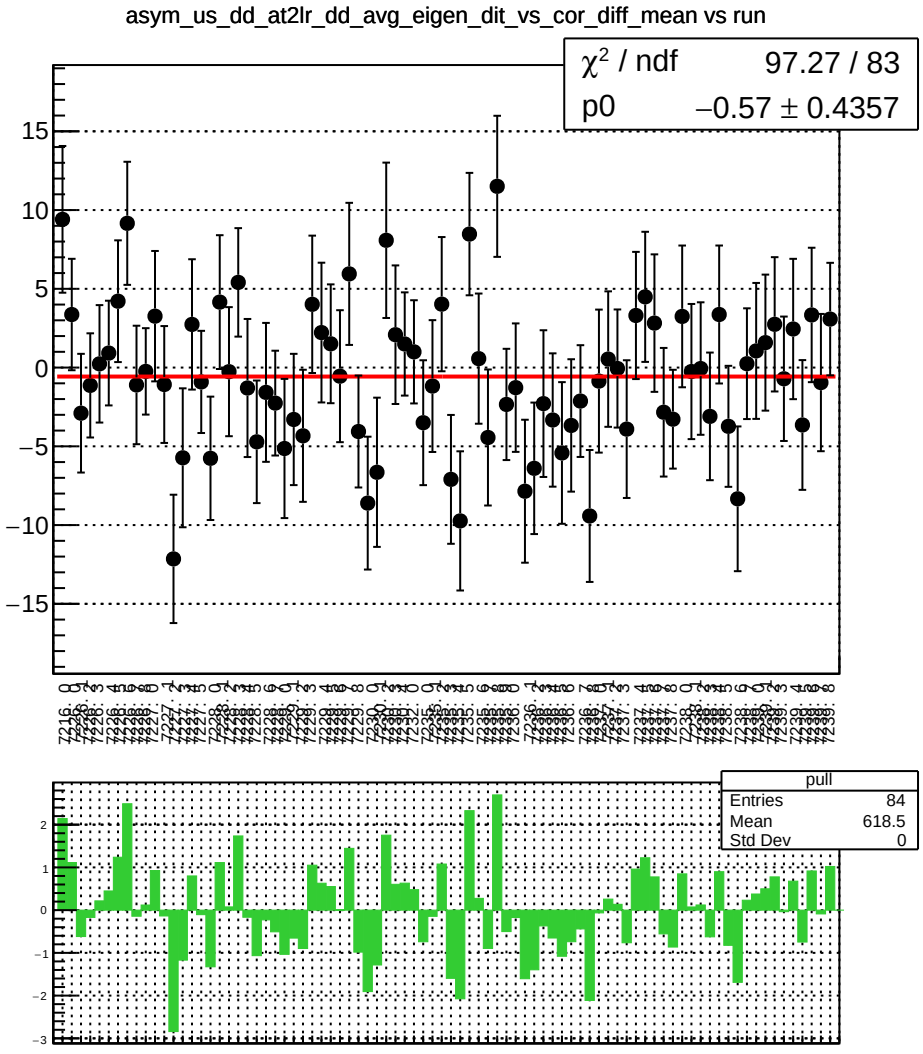

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.137e+04 / 83
p0 391.5 ± 0.3081
480
460
440
420
400
380
360
340
320
300

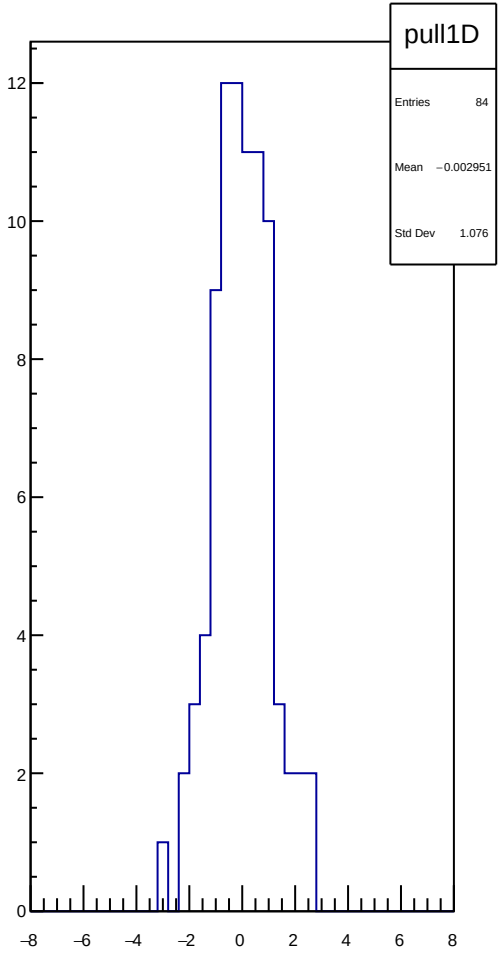

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.27 / 83
p0 −0.57 ± 0.4357
pull
Entries 84
Mean 618.8
Std Dev 0
pull1D
Entries 84
Mean −0.002949
Std Dev 1.076

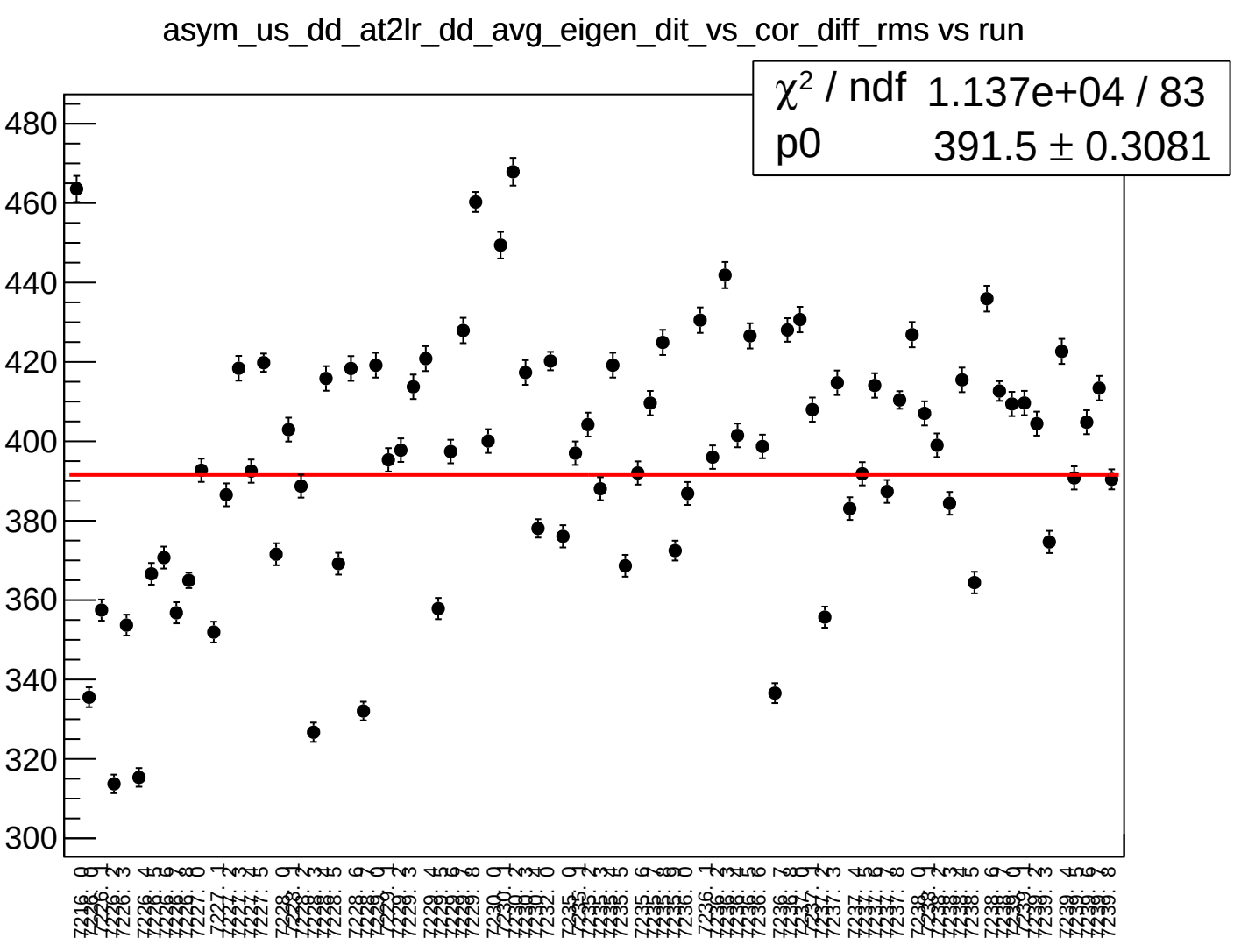

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.137e+04 / 83
p0 391.5 ± 0.3081
480
460
440
420
400
380
360
340
320
300

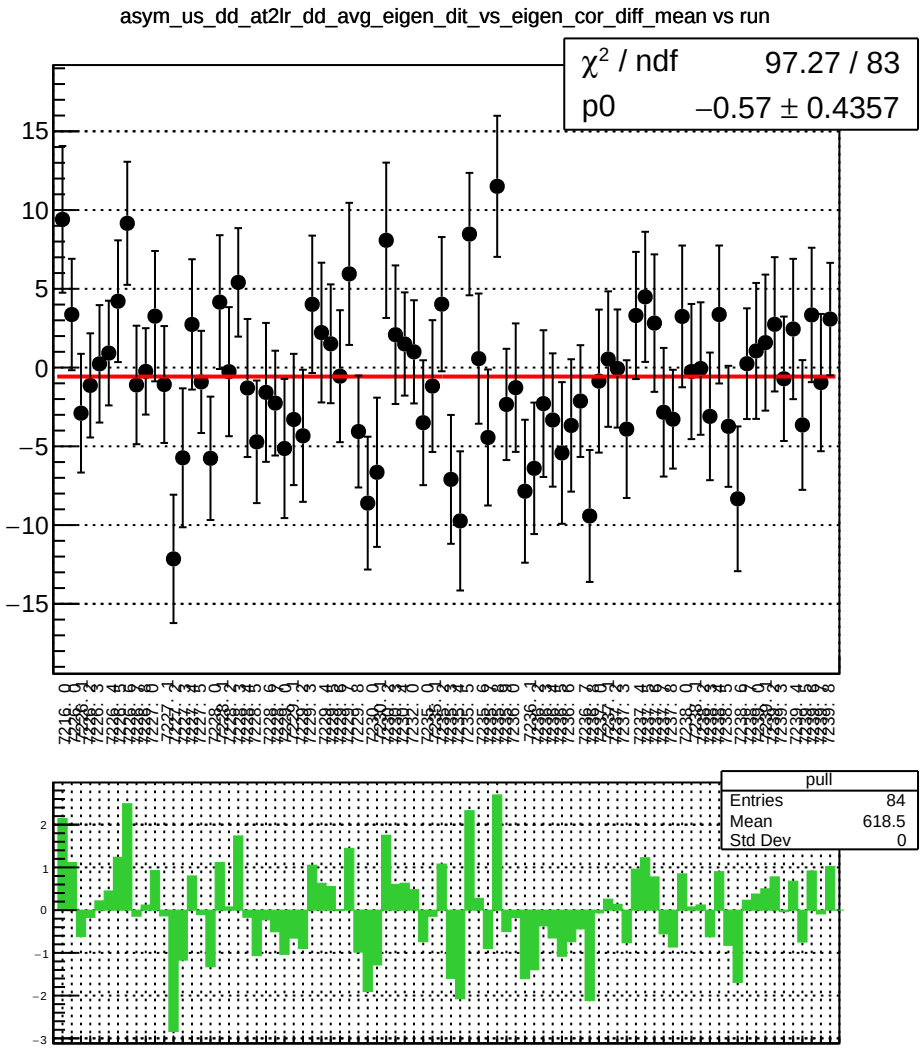

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.7 / 83
p0 3.488e−06 ± 4.681e−06
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 84
Mean 13.56
Std Dev 40.93
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean −0.02551
Std Dev 1.084
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

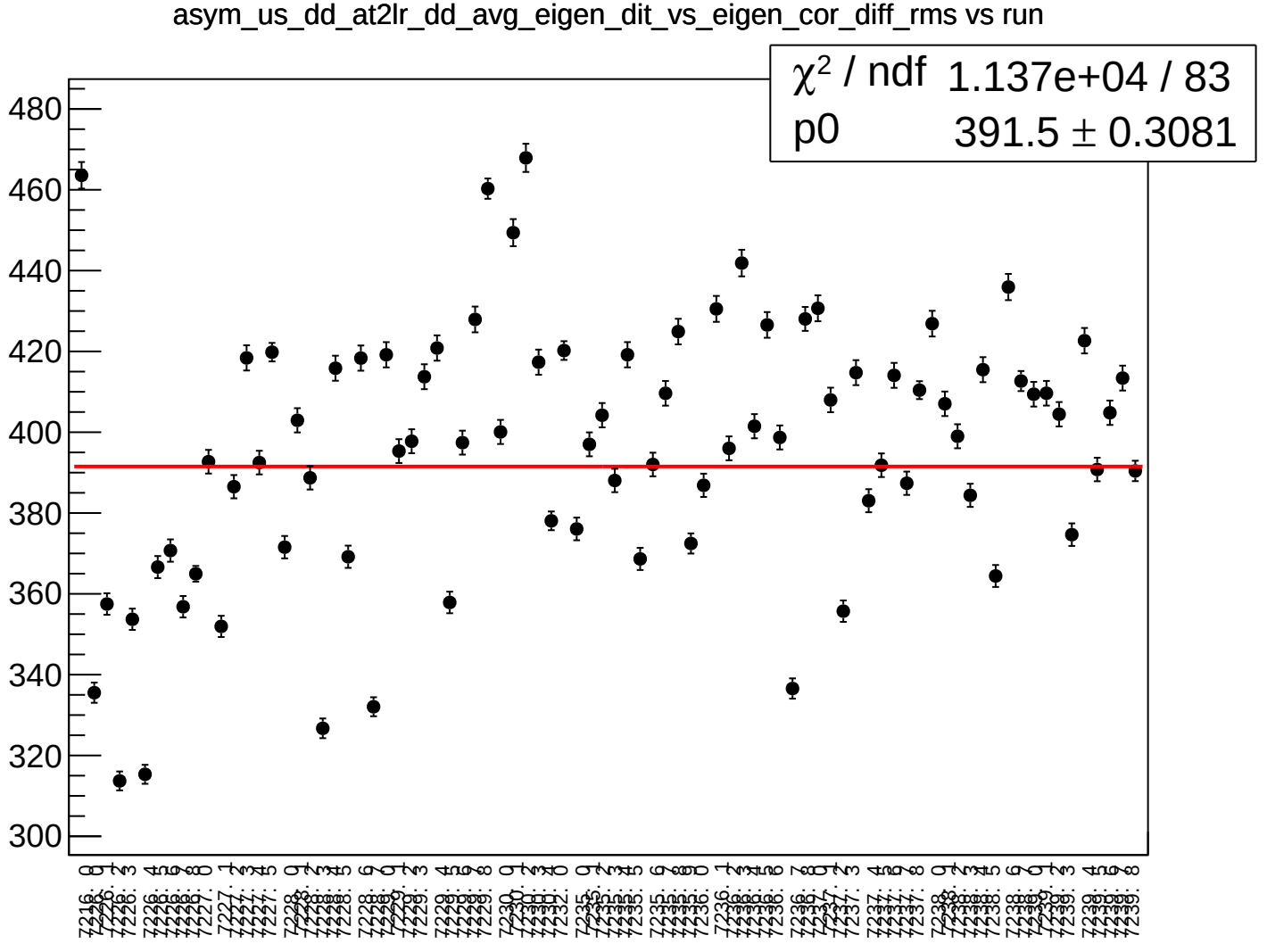

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.757e+05 / 83
p0 0.003551 ± 3.31e–06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

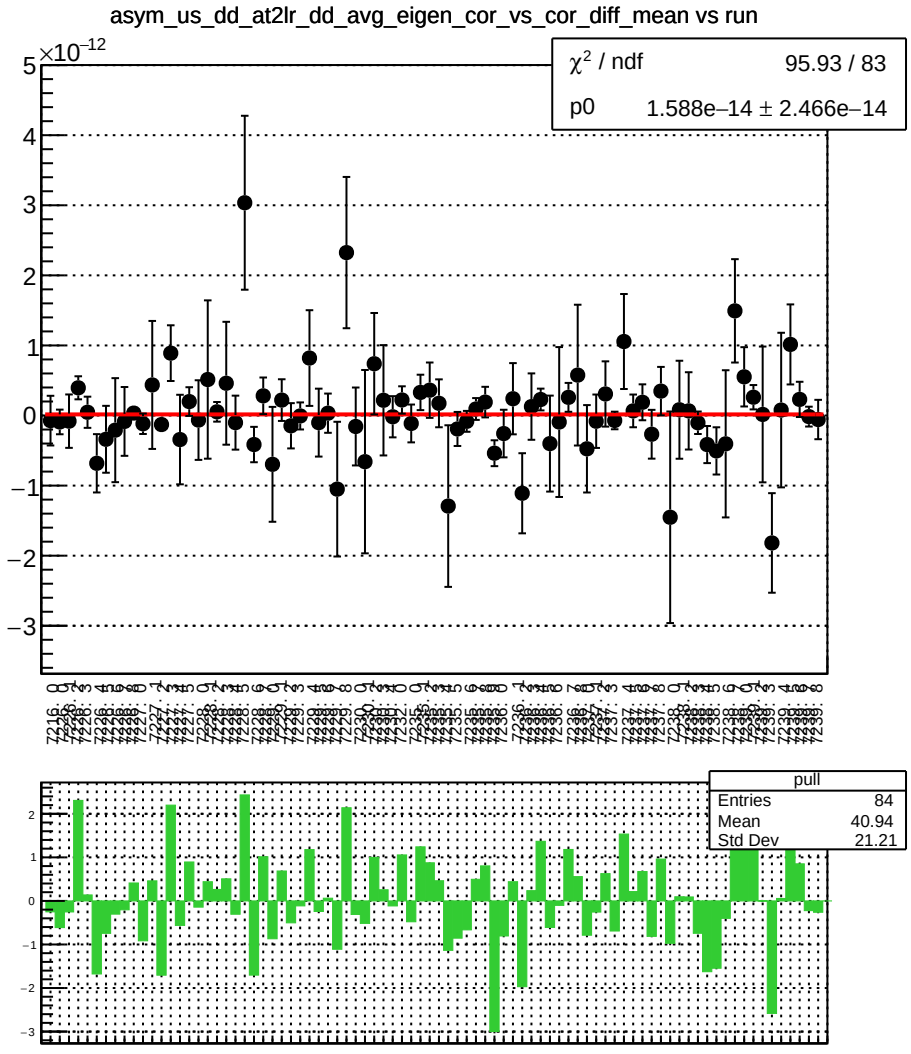

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.27 / 83
p0 −0.57 ± 0.4357
pull
Entries 84
Mean 618.5
Std Dev 0

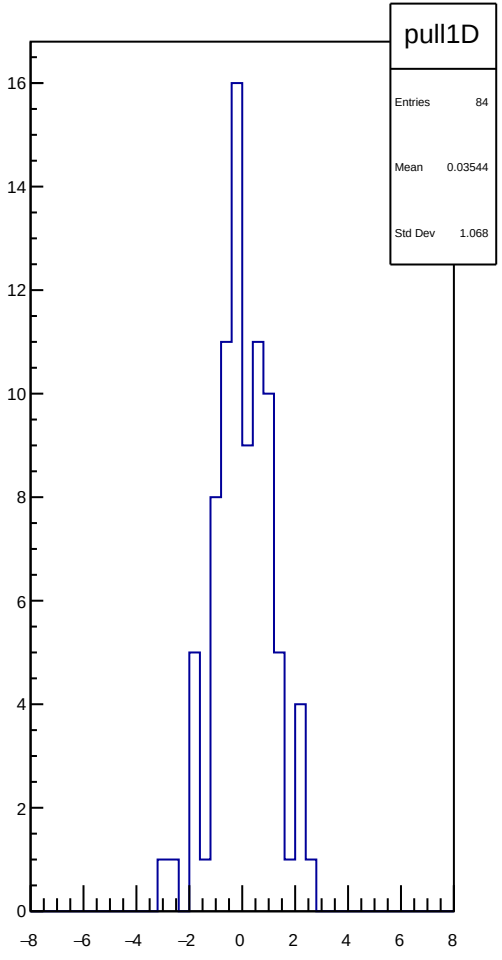

pull1D
Entries 84
Mean −0.002951
Std Dev 1.076

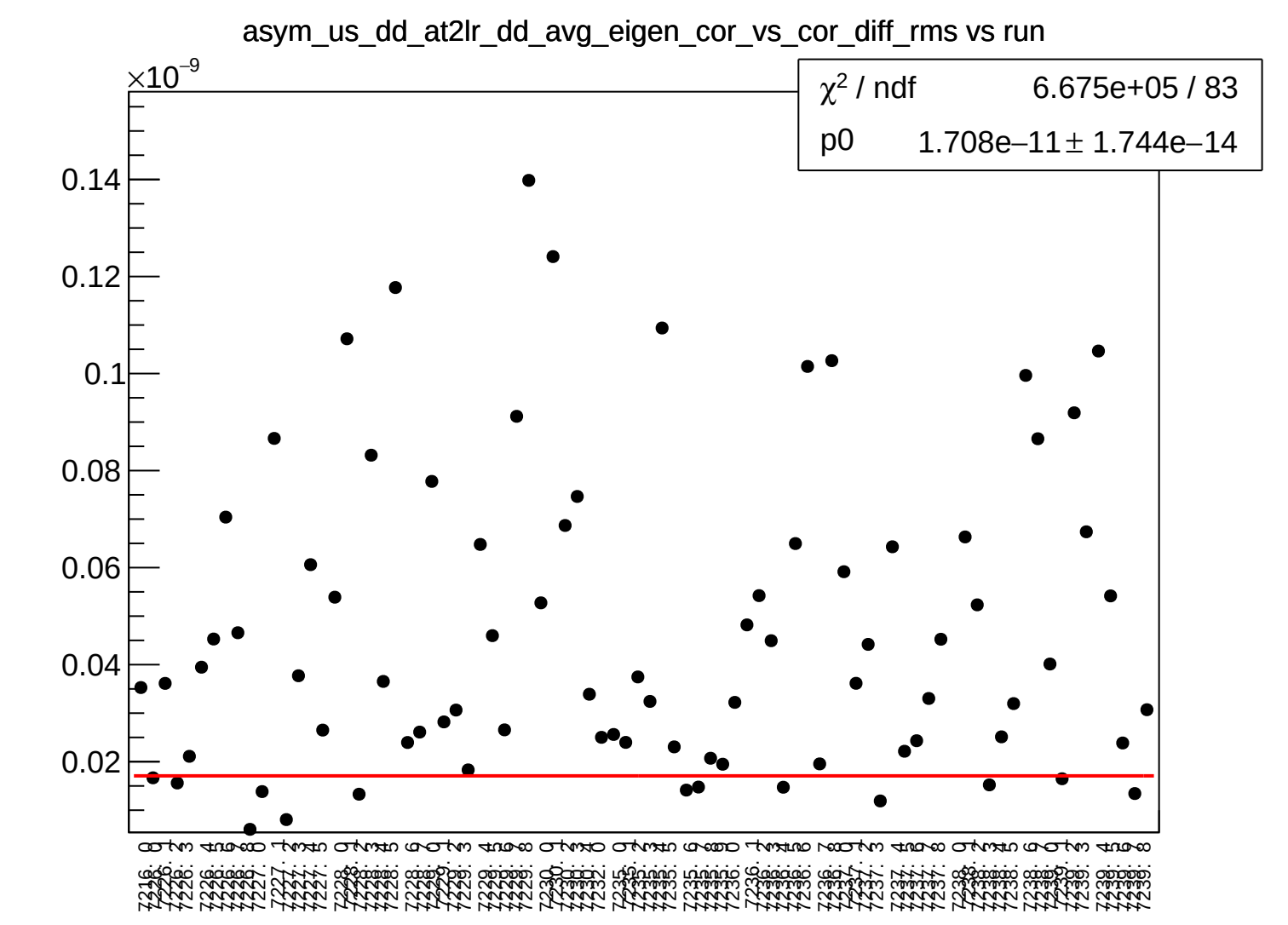

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.137e+04 / 83
p0 391.5 ± 0.3081
480
460
440
420
400
380
360
340
320
300

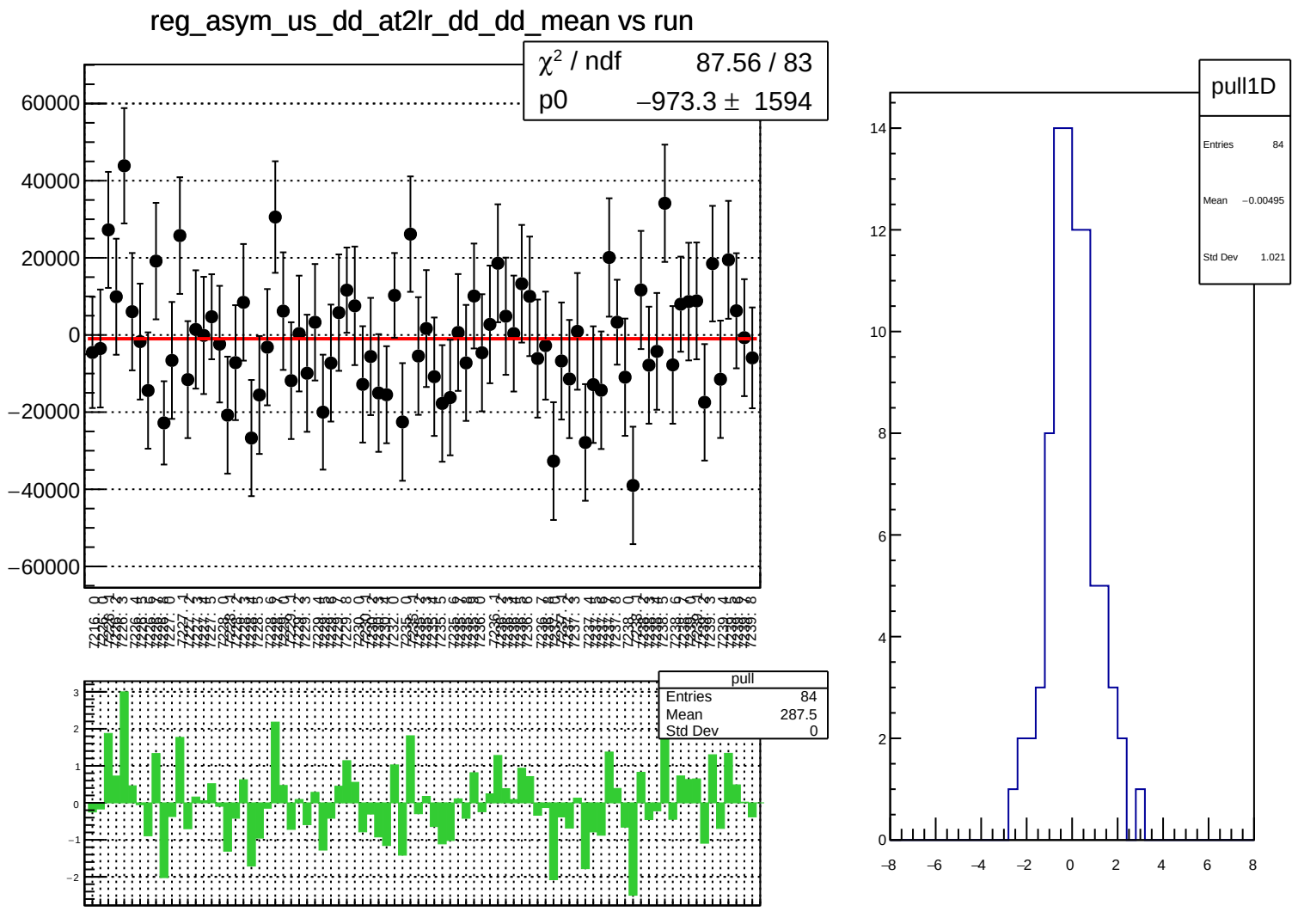

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.27 / 83
p0 −0.57 ± 0.4357
pull
Entries 84
Mean 618.5
Std Dev 0
pull1D
Entries 84
Mean −0.002951
Std Dev 1.076

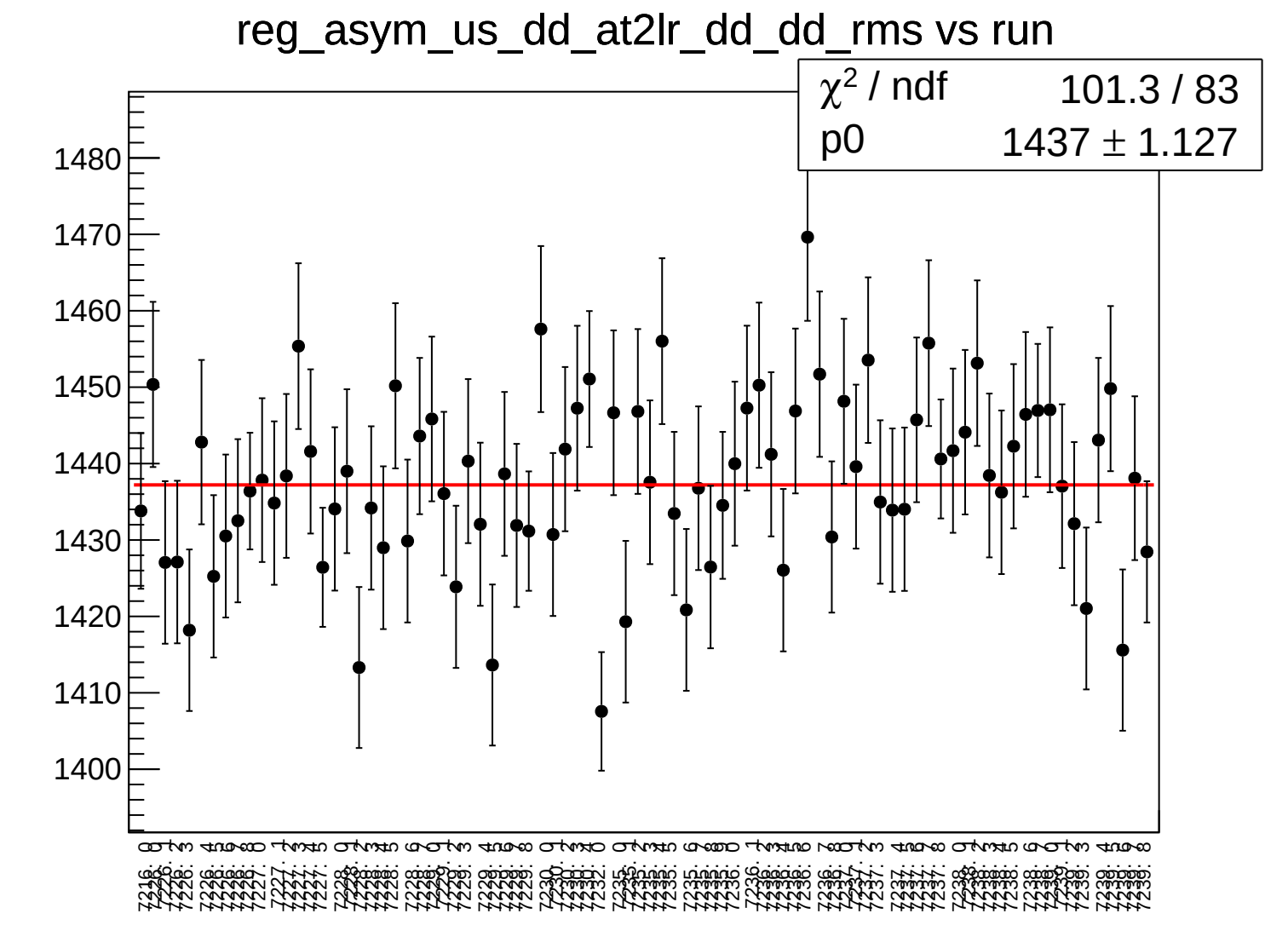

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.137e+04 / 83
p0 391.5 ± 0.3081
480
460
440
420
400
380
360
340
320
300

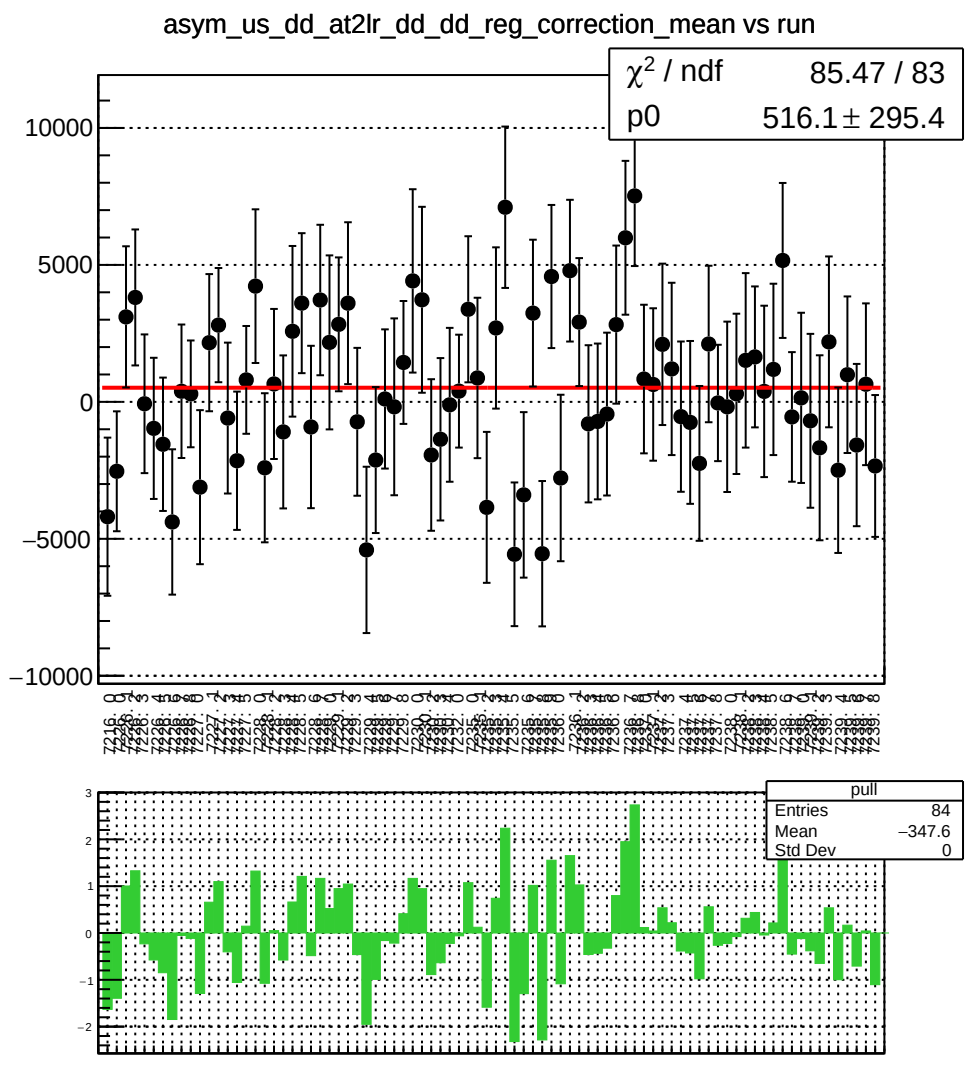

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.93 / 83
p0 1.588e−14 ± 2.466e−14
pull
Entries 84
Mean 40.94
Std Dev 21.21

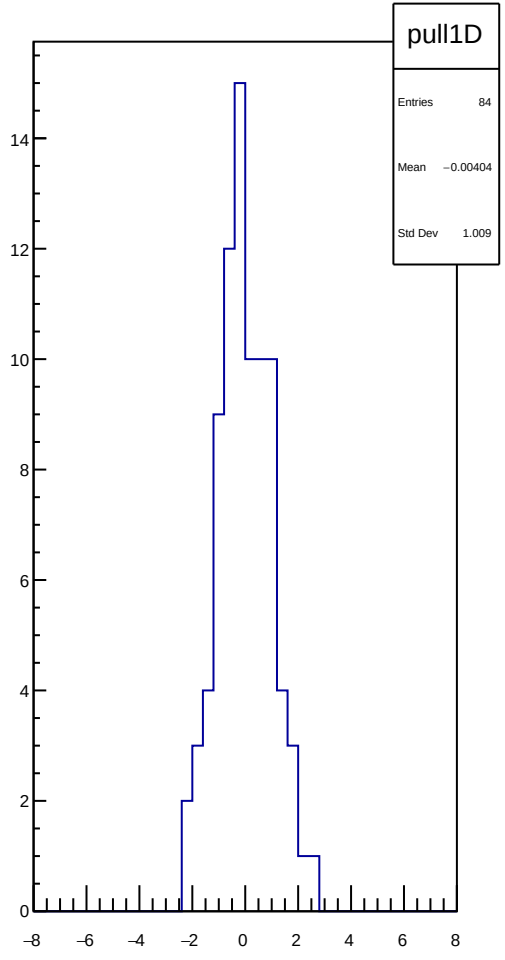

pull1D
Entries 84
Mean 0.03544
Std Dev 1.068

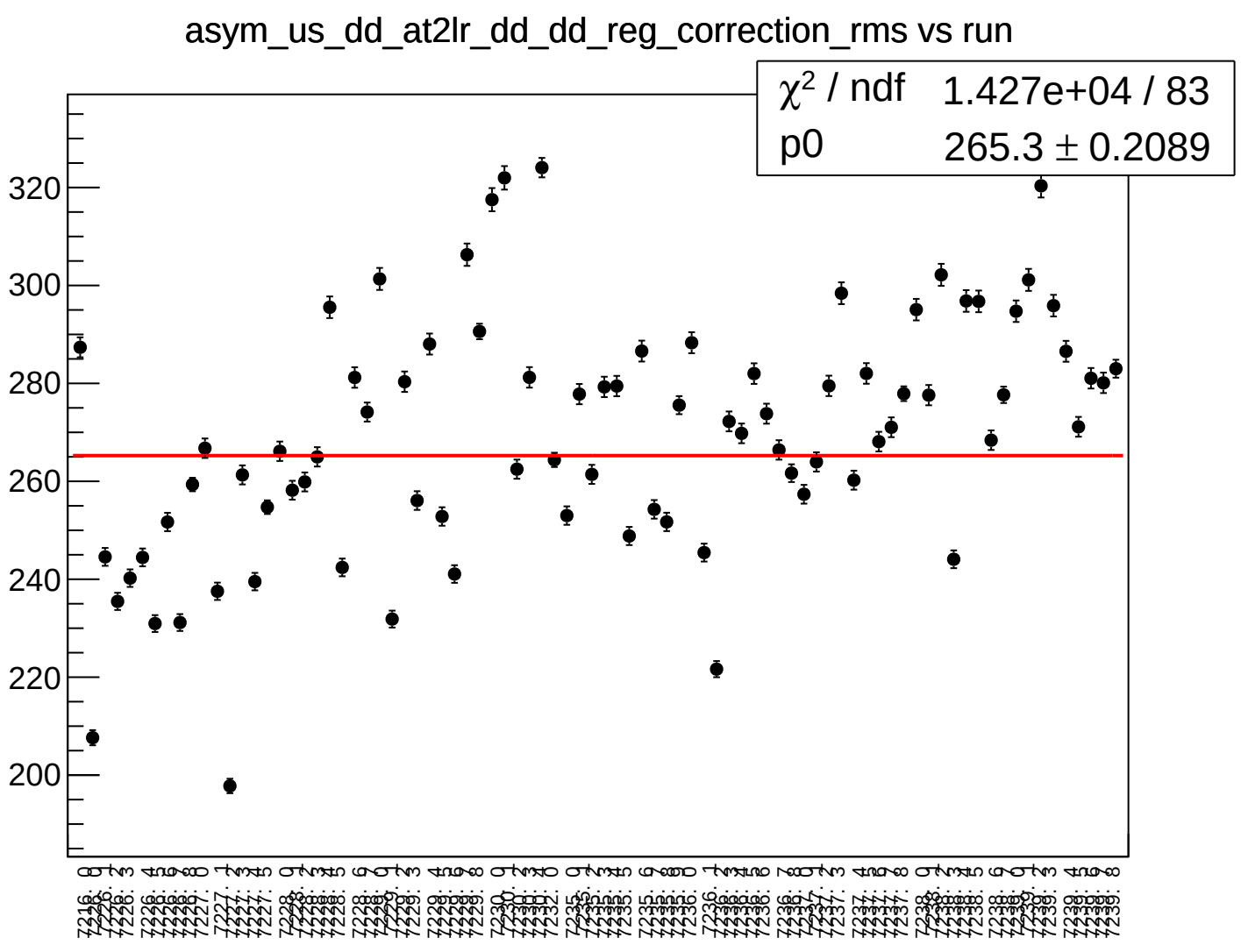

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.675e+05 / 83
p0 1.708e−11 ± 1.744e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

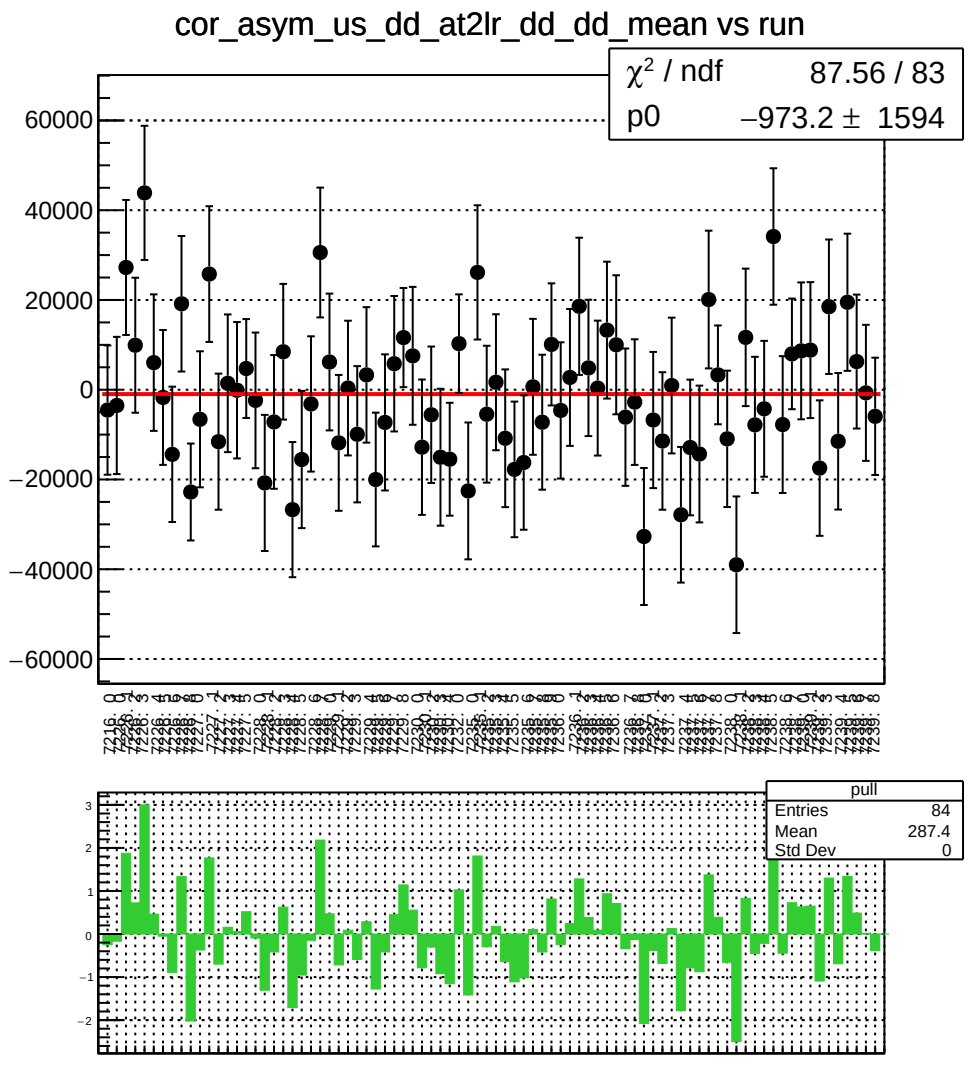

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 87.56 / 83
p0 −973.3 ± 1594
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 287.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.00495
Std Dev 1.021
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

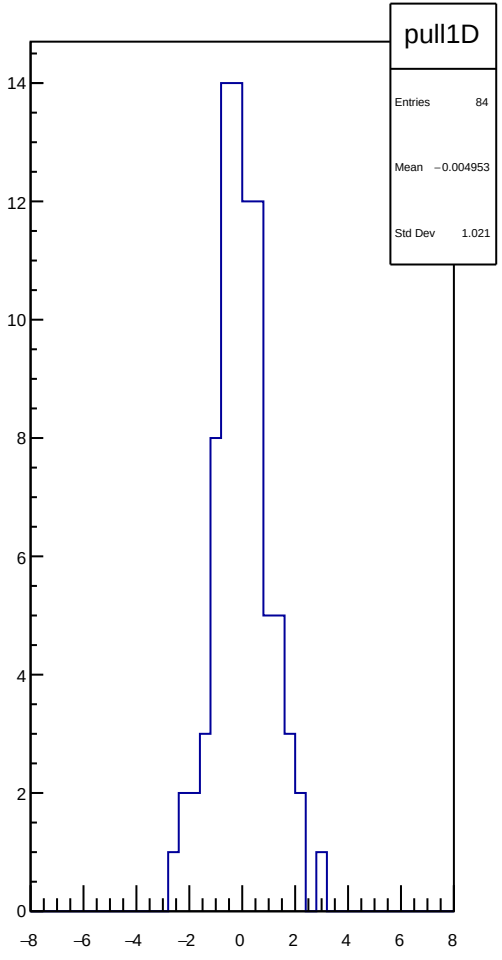

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ^2 / ndf 101.3 / 83
p0 1437 ± 1.127
1480
1470
1460
1450
1440
1430
1420
1410
1400

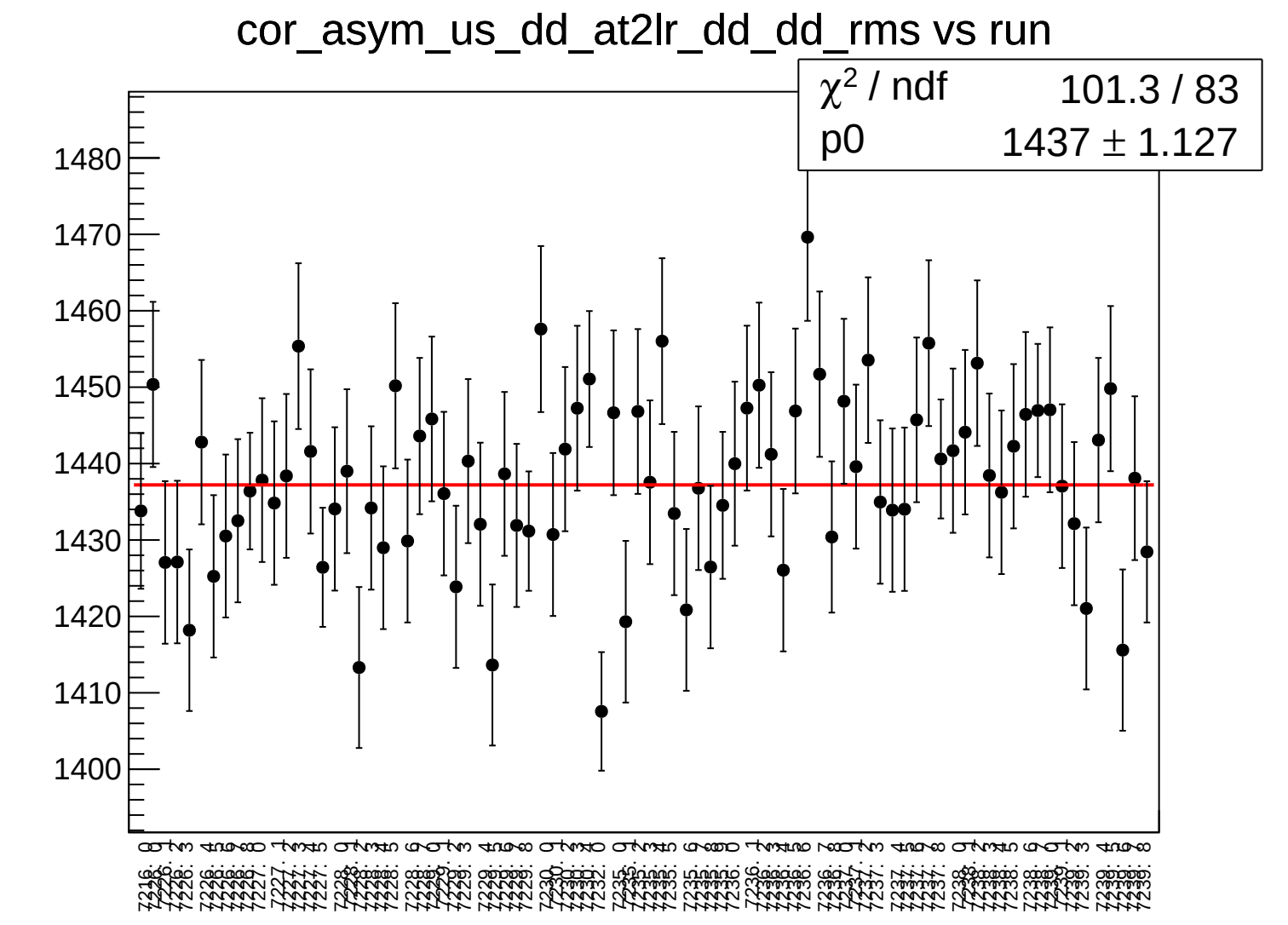

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 85.47 / 83
p0 516.1 ± 295.4
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −347.6
Std Dev 0
3
2
1
0
−1
−2

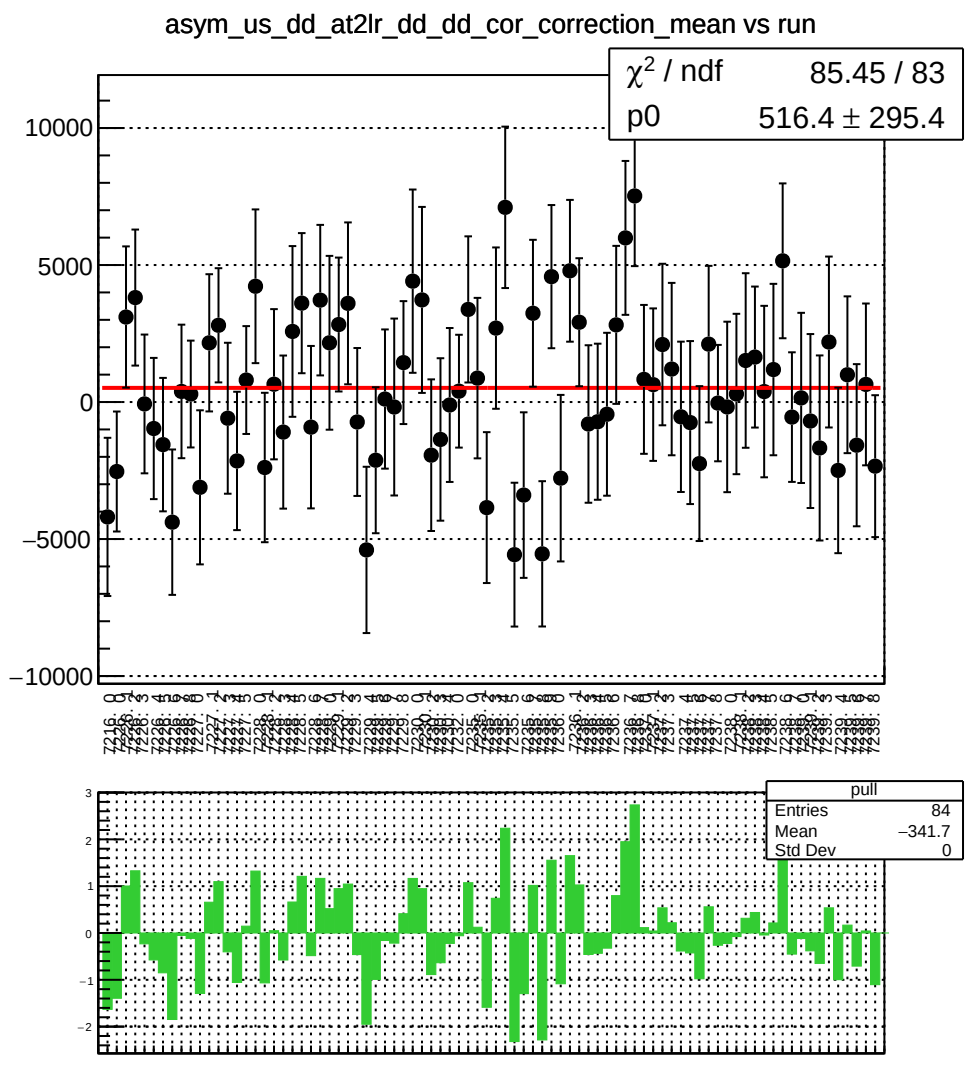

pull1D
Entries 84
Mean −0.00404
Std Dev 1.009
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

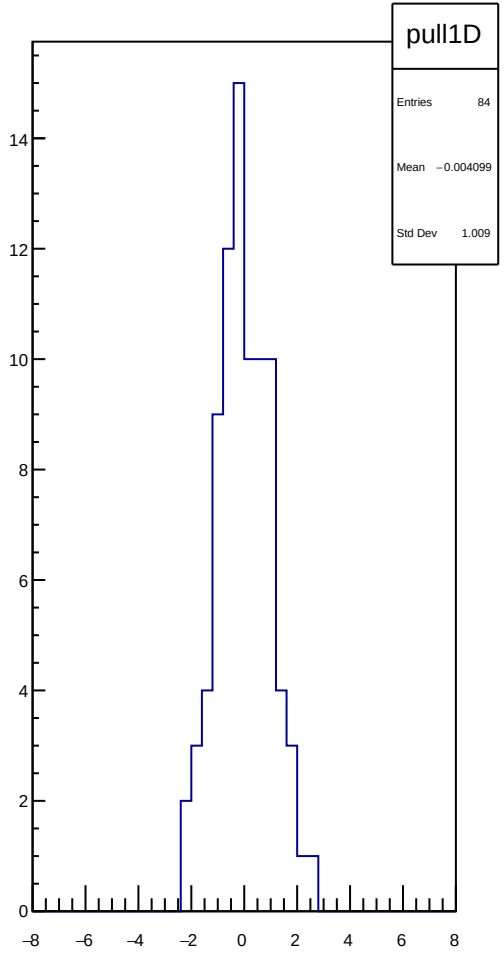

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.427e+04 / 83
p0 265.3 ± 0.2089
320
300
280
260
240
220
200

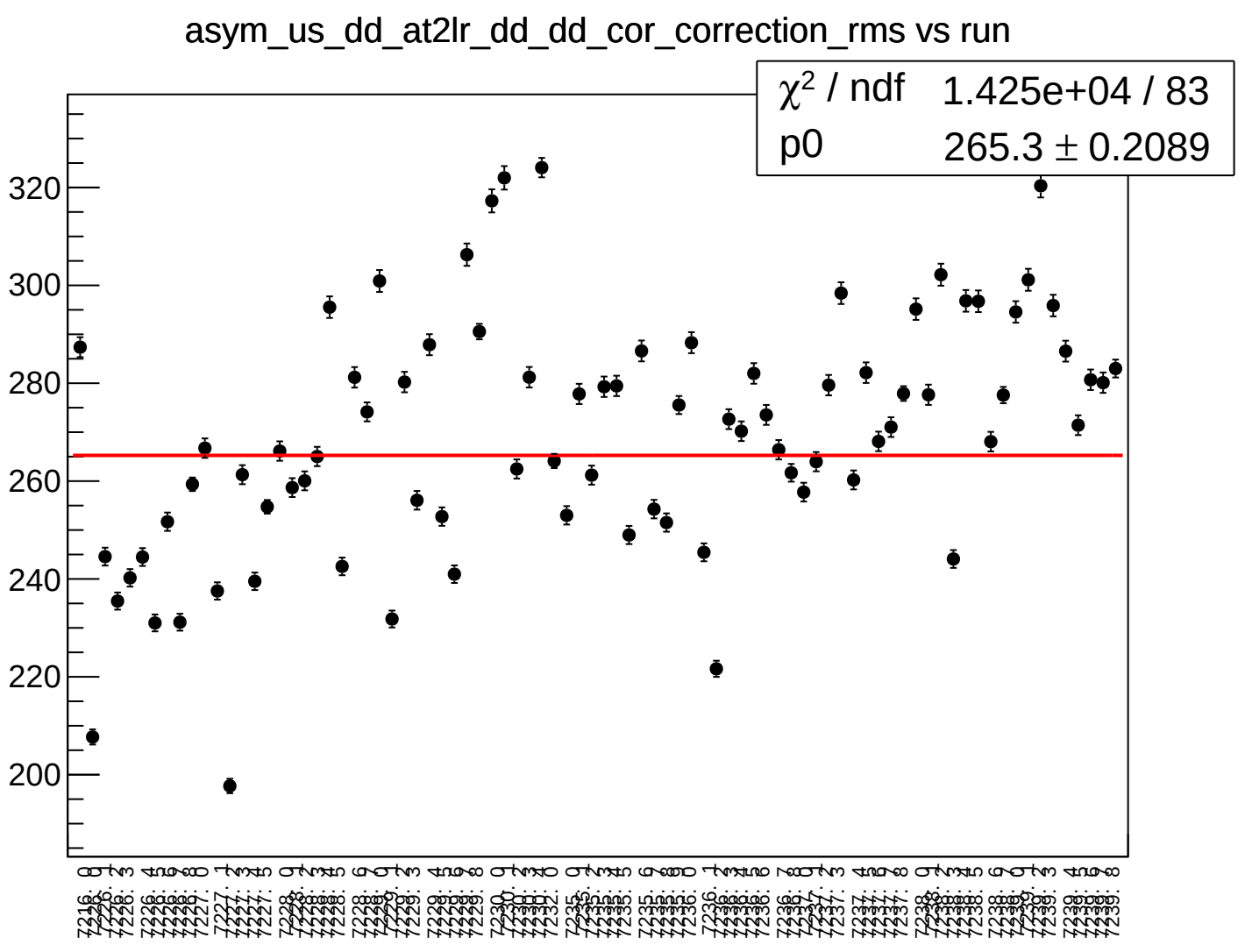

cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 87.56 / 83
p0 −973.2 ± 1594
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 287.4
Std Dev 0
3
2
1
0
−1
−2

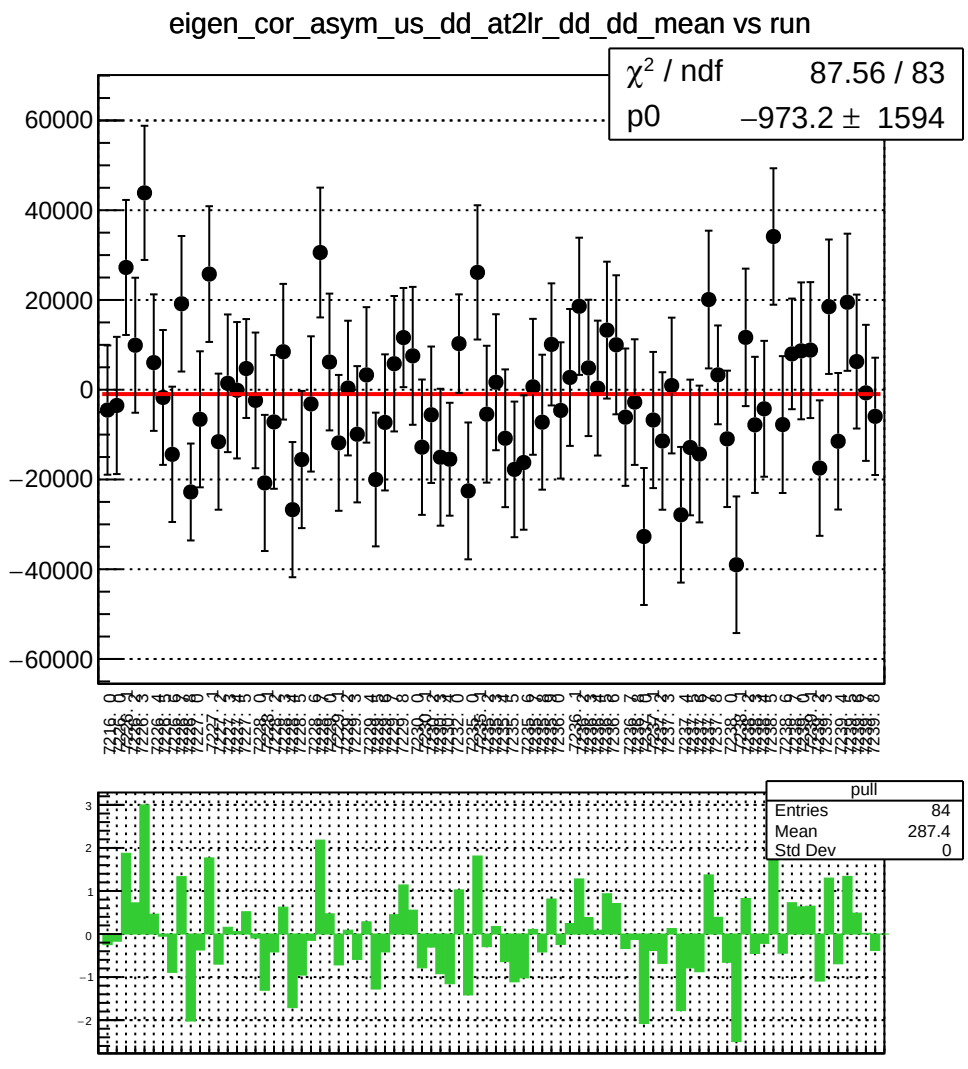

pull1D
Entries 84
Mean −0.004953
Std Dev 1.021
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

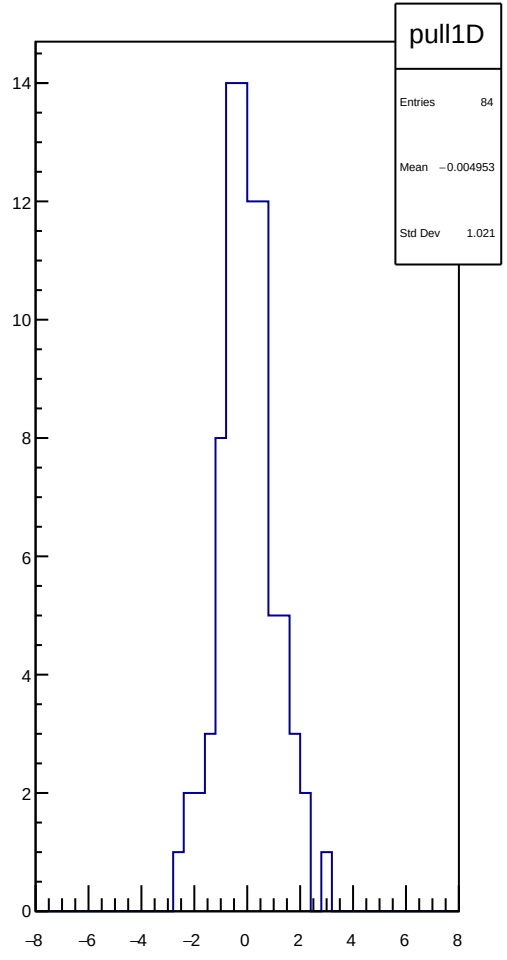

cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ^2 / ndf 101.3 / 83
p0 1437 ± 1.127
1480
1470
1460
1450
1440
1430
1420
1410
1400

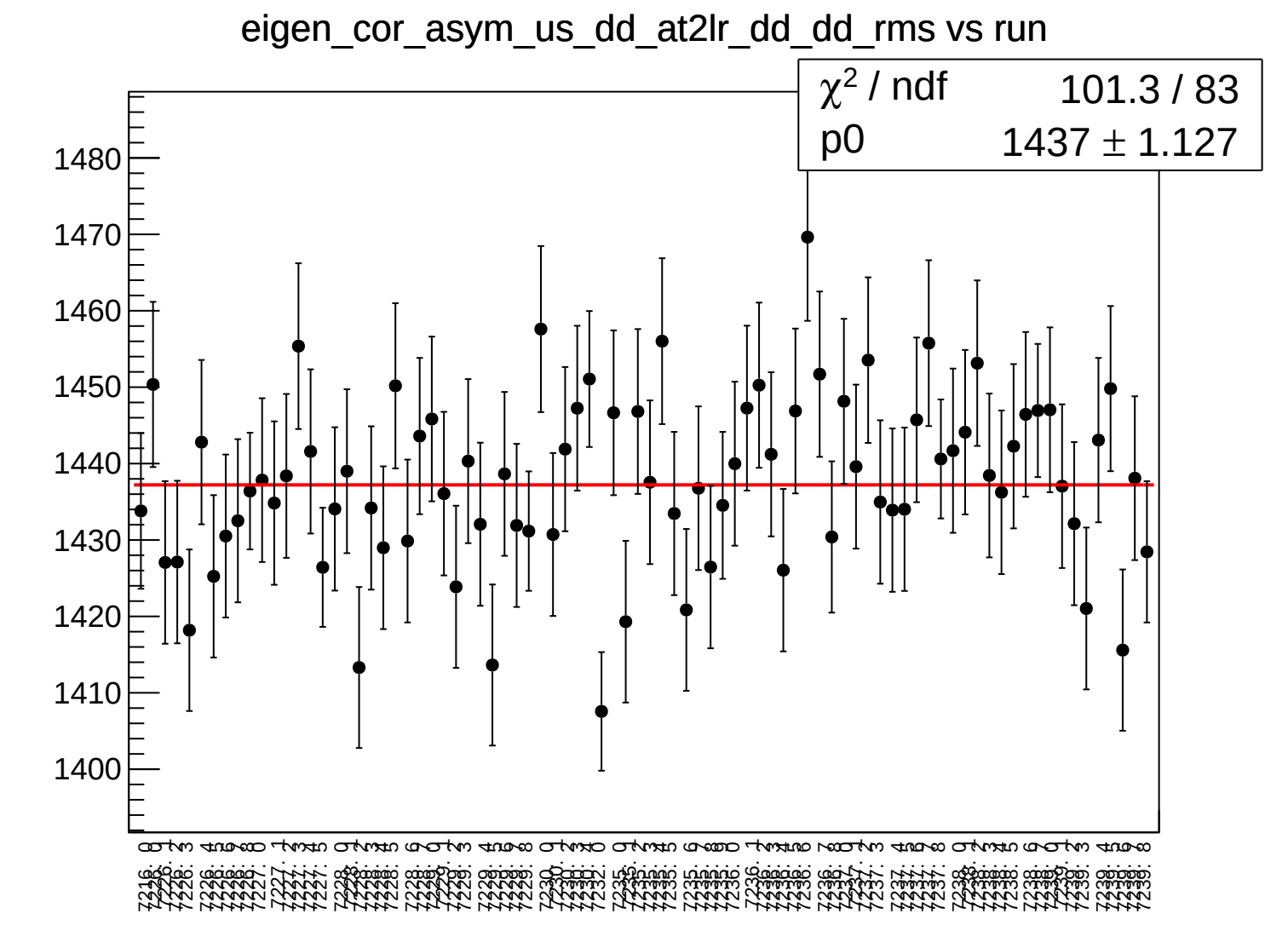

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 85.45 / 83
p0 516.4 ± 295.4
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −341.7
Std Dev 0
3
2
1
0
−1
−2

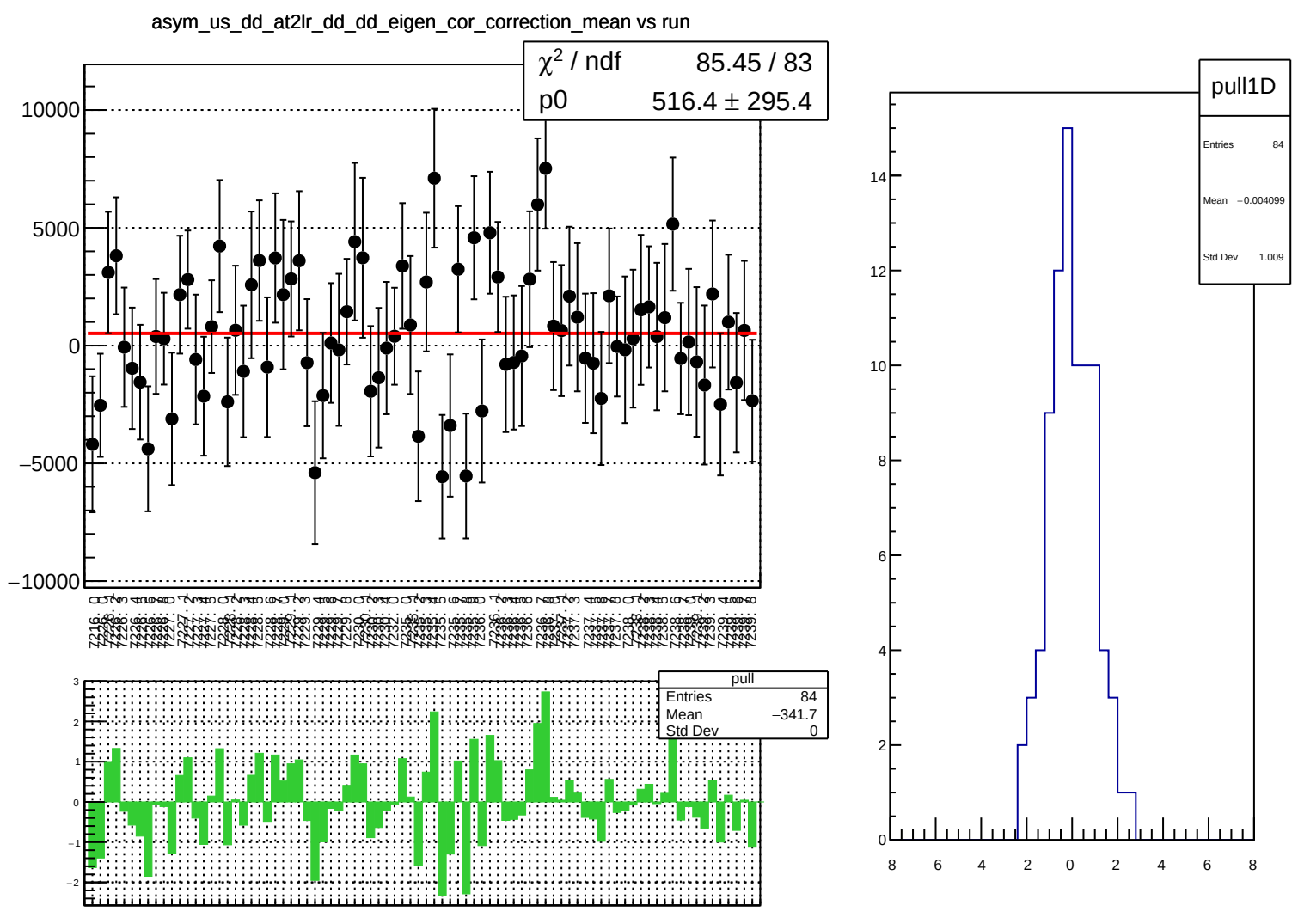

pull1D
Entries 84
Mean −0.004099
Std Dev 1.009
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

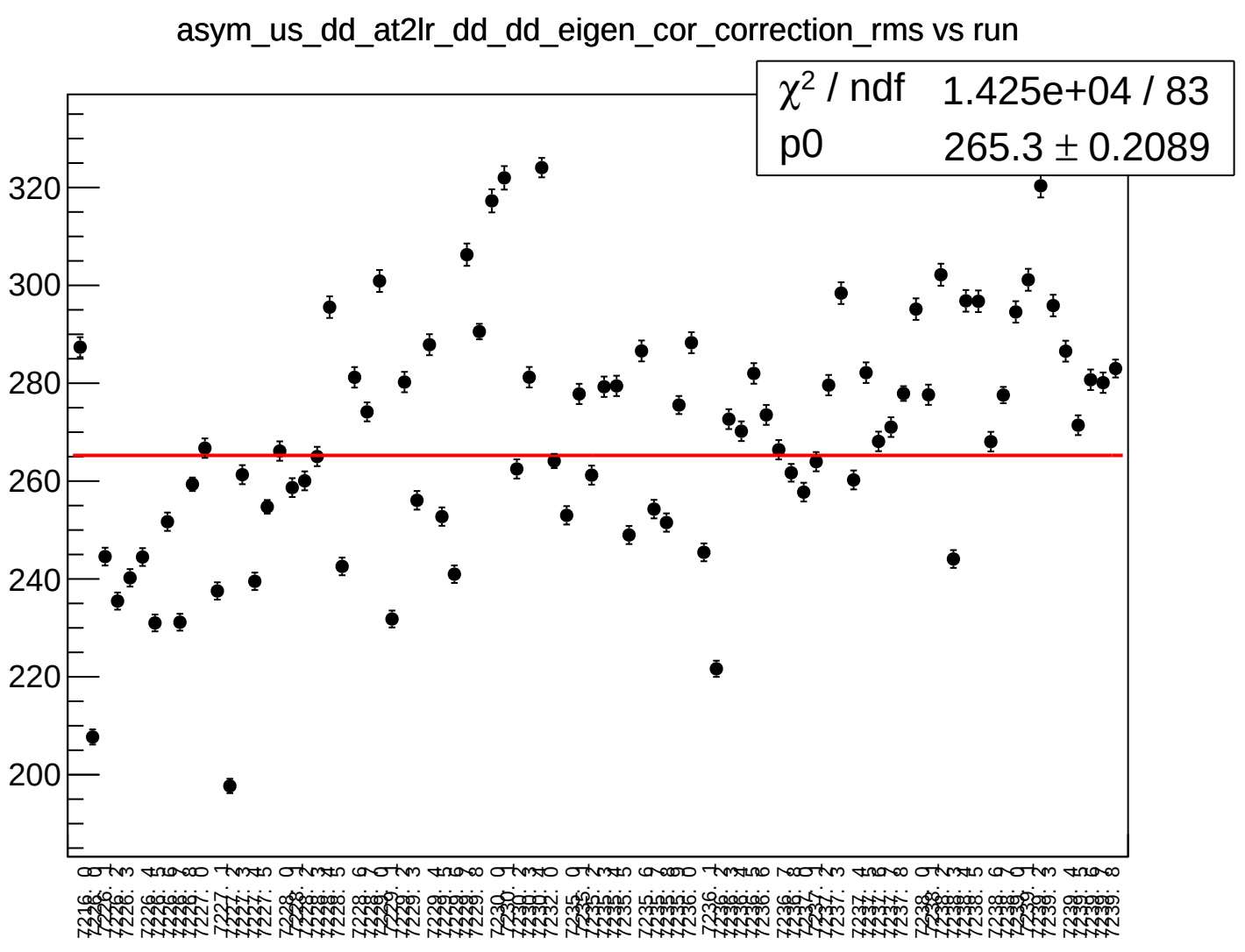

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.425e+04 / 83
p0 265.3 ± 0.2089
320
300
280
260
240
220
200

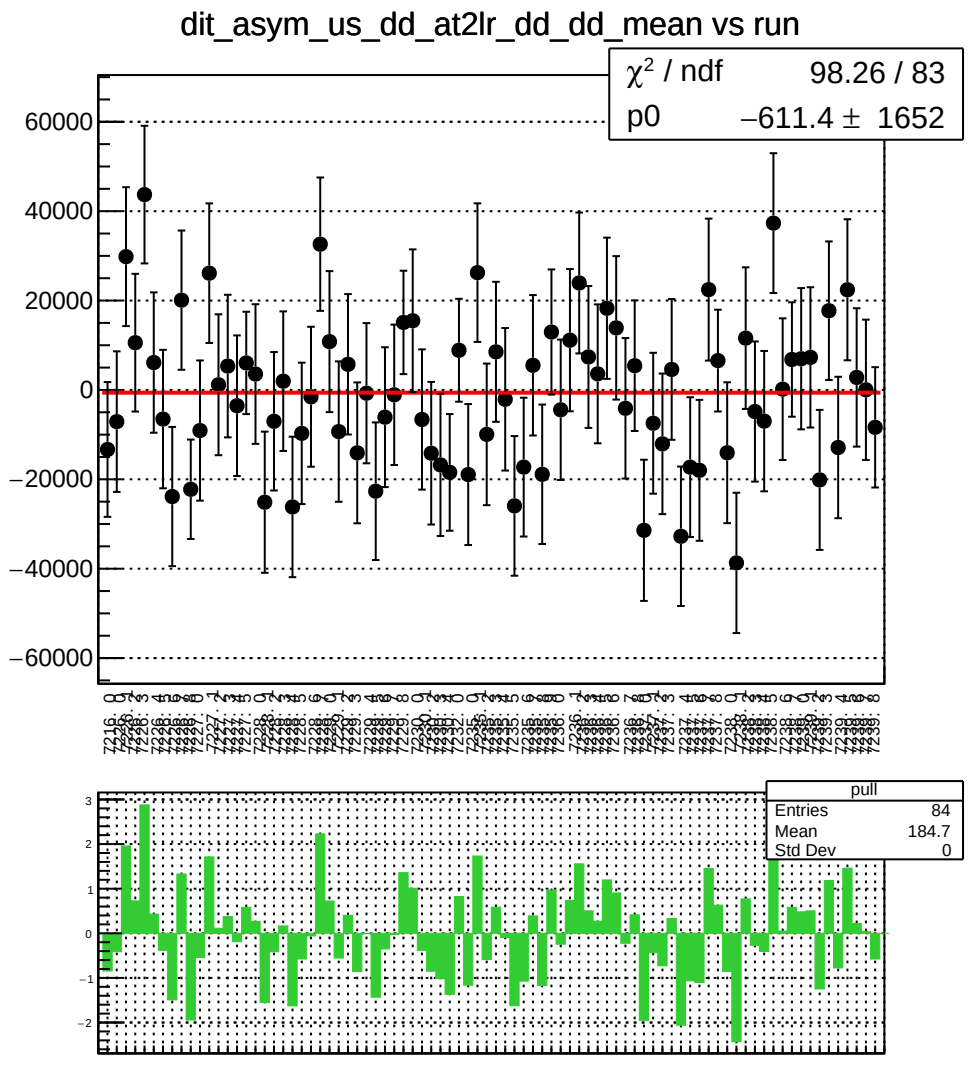

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 87.56 / 83
p0 −973.2 ± 1594
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 287.4
Std Dev 0
3
2
1
0
−1
−2

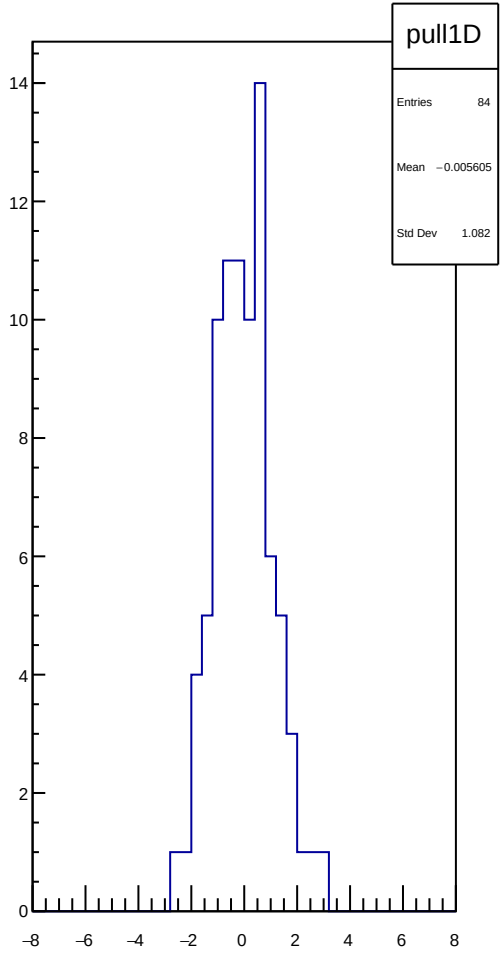

pull1D
Entries 84
Mean −0.004953
Std Dev 1.021
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

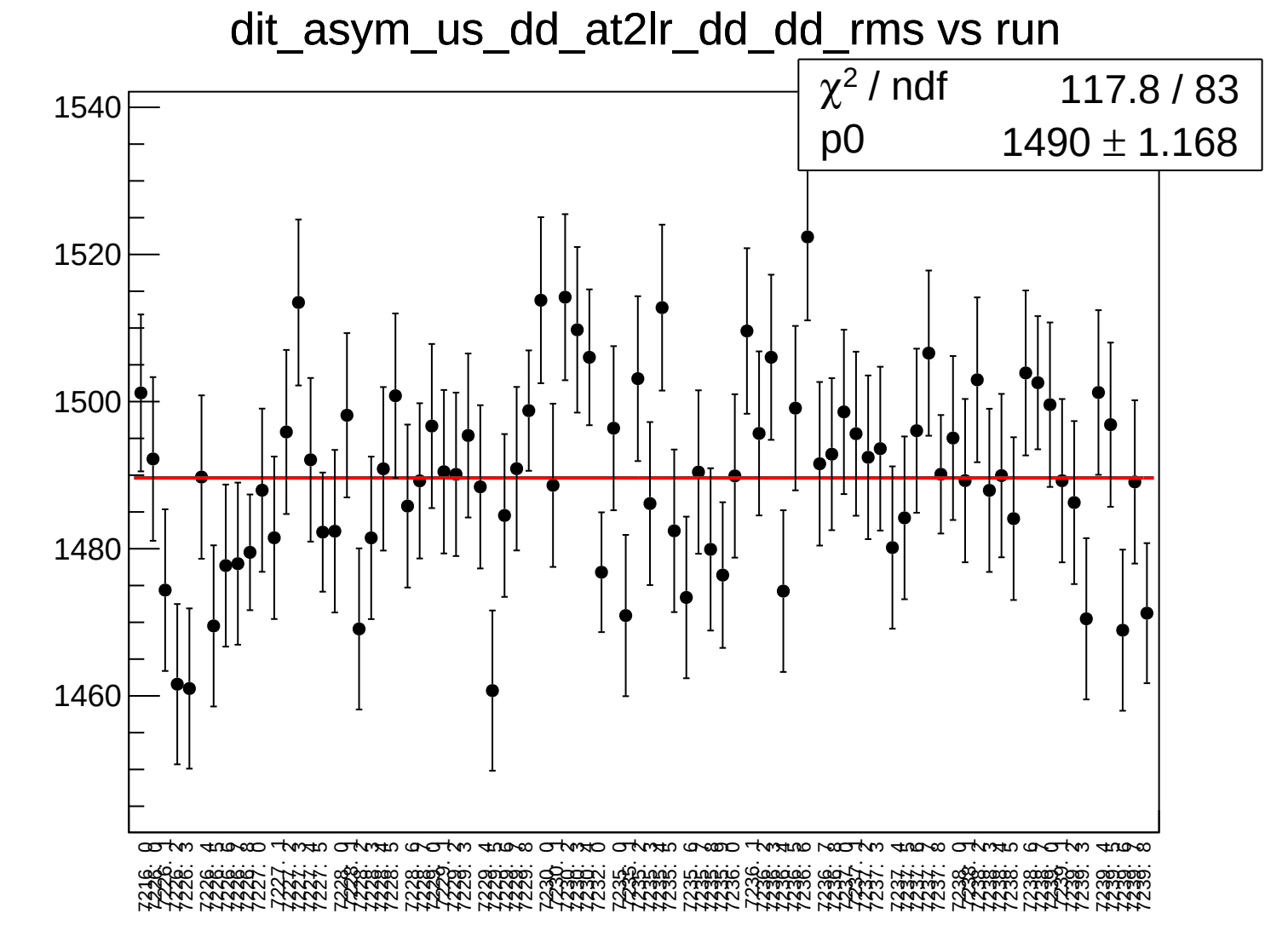

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ^2 / ndf 101.3 / 83
p0 1437 ± 1.127
1480
1470
1460
1450
1440
1430
1420
1410
1400

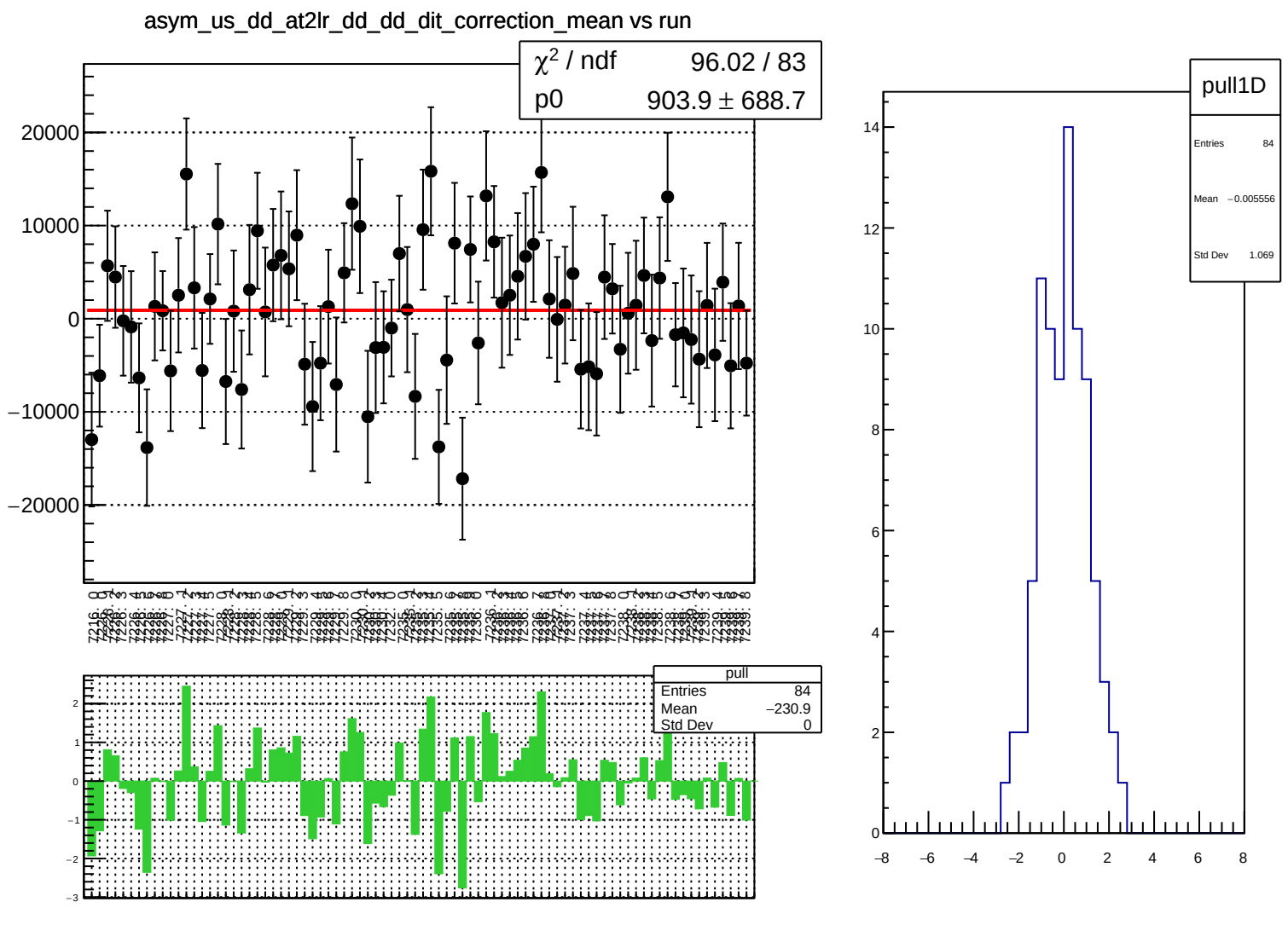

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 85.45 / 83
p0 516.4 ± 295.4
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −341.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.004099
Std Dev 1.009
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

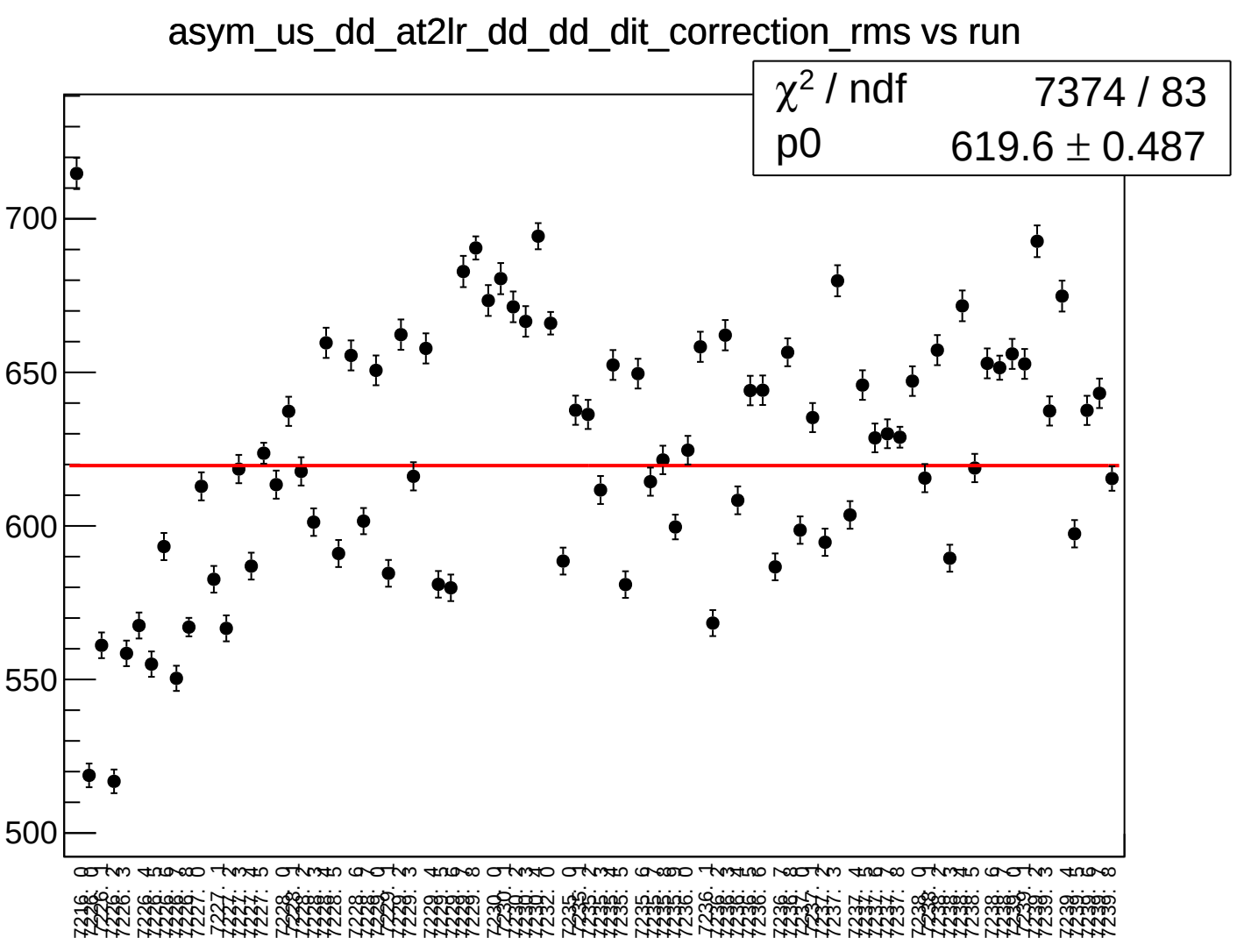

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.425e+04 / 83
p0 265.3 ± 0.2089
320
300
280
260
240
220
200

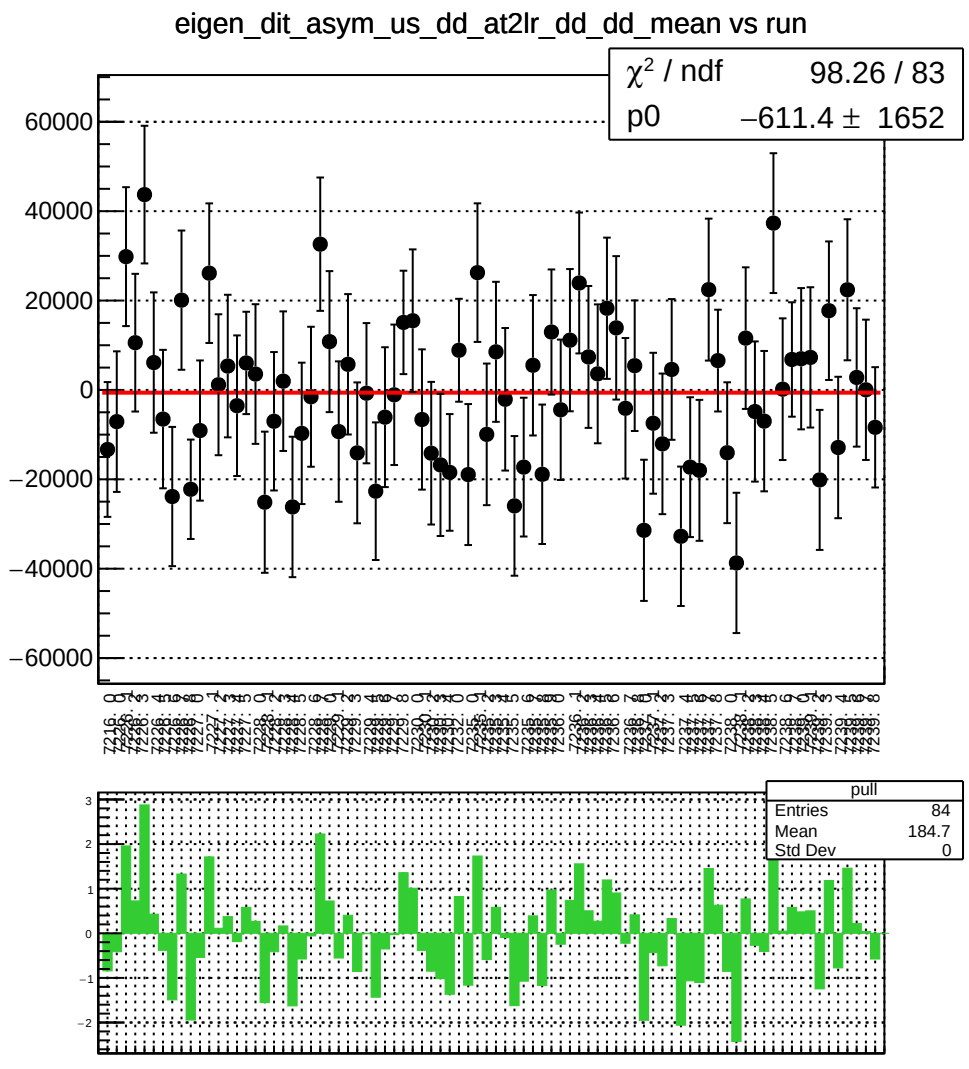

dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 98.26 / 83
p0 −611.4 ± 1652
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 184.7
Std Dev 0
3
2
1
0
−1
−2

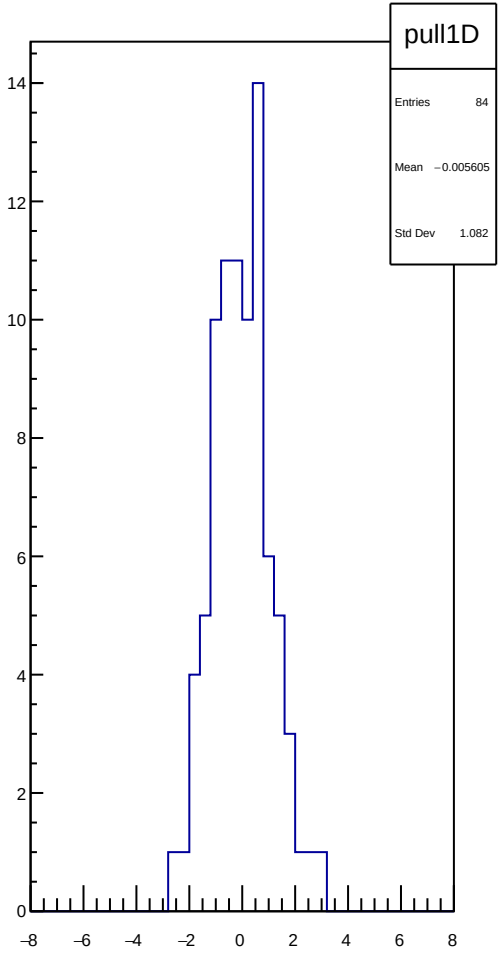

pull1D
Entries 84
Mean −0.005605
Std Dev 1.082
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

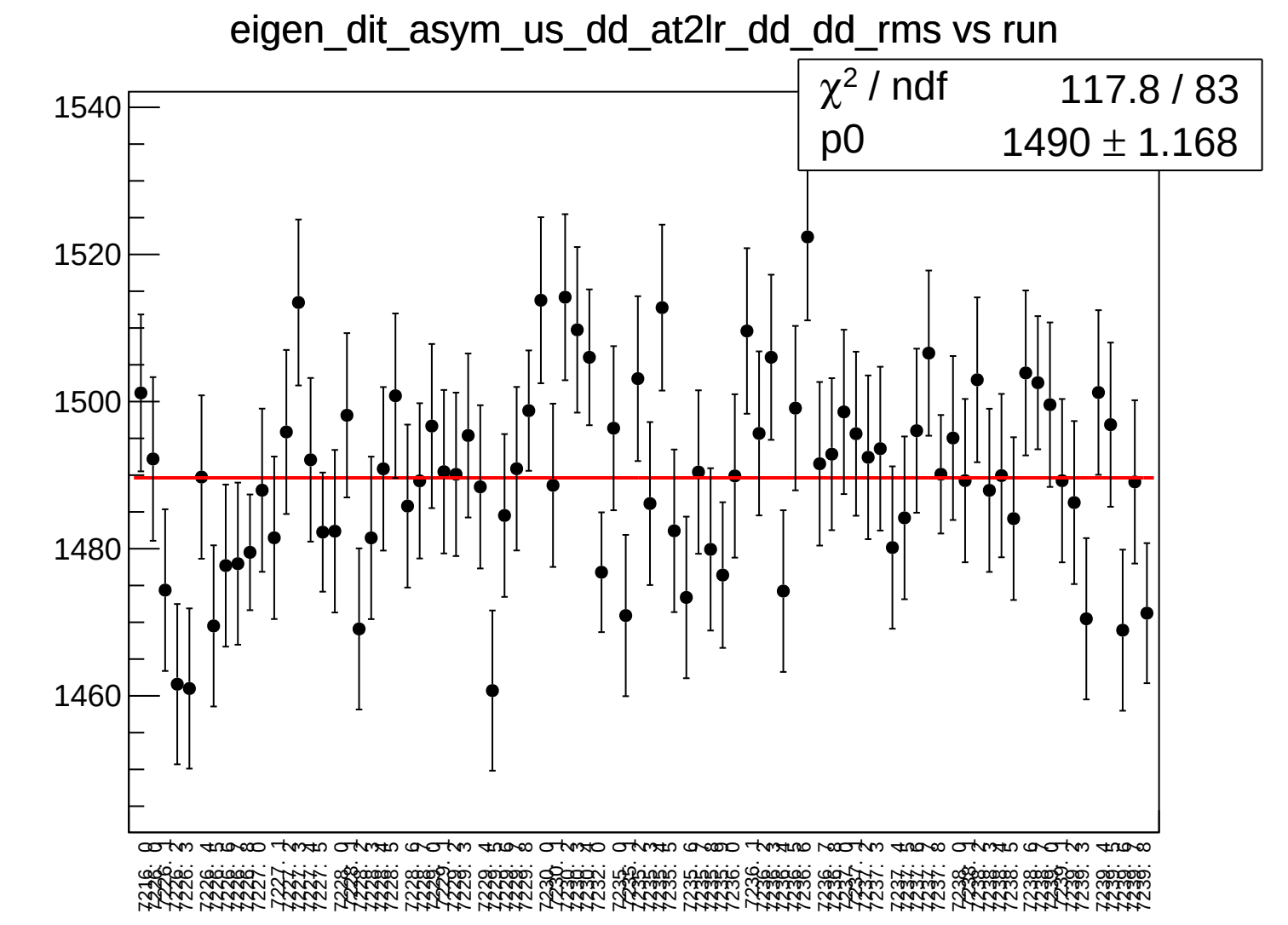

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ^2 / ndf 117.8 / 83
p0 1490 ± 1.168
1540
1520
1500
1480
1460

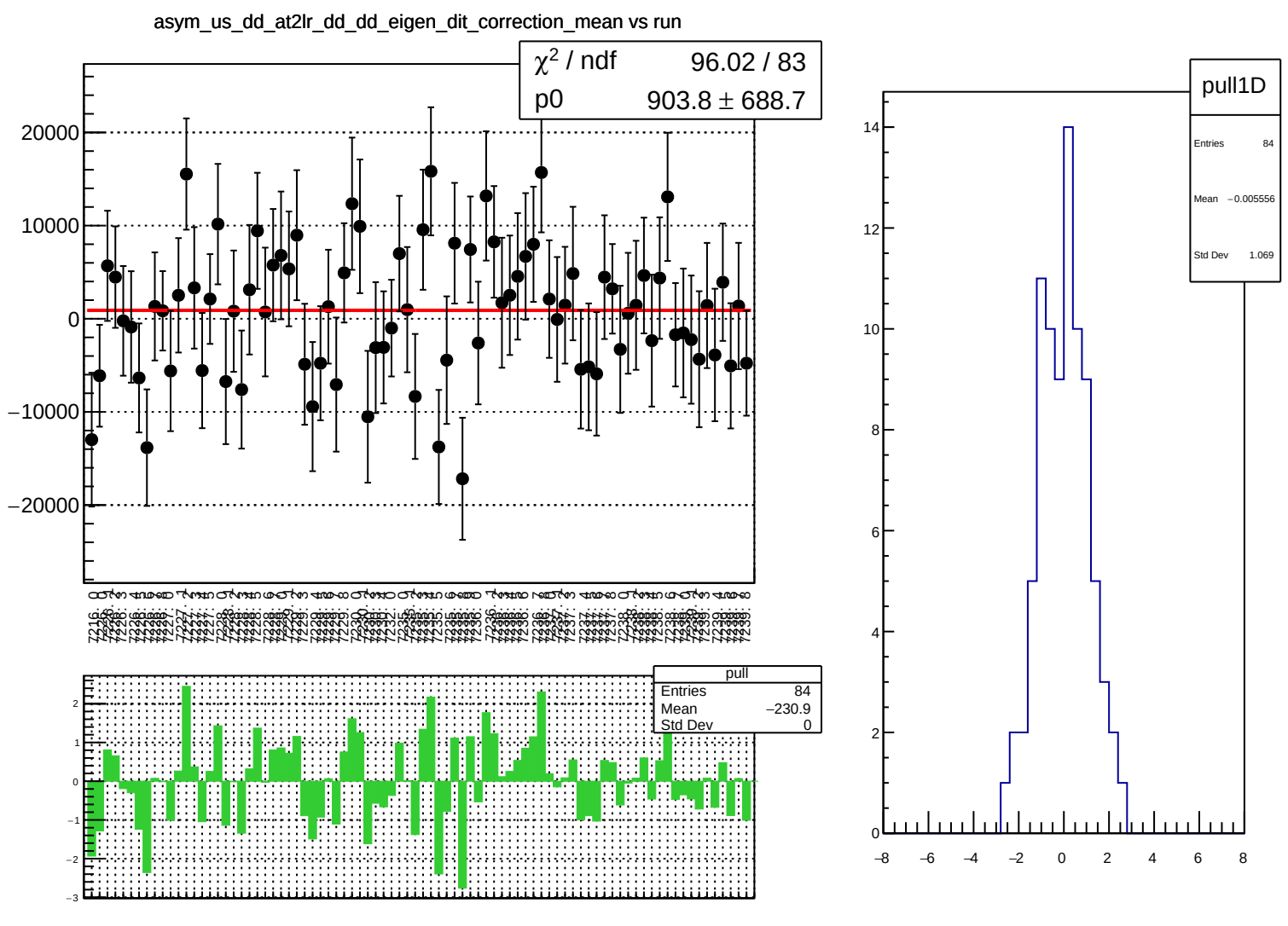

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 96.02 / 83
p0 903.9 ± 688.7
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −230.9
Std Dev 0
pull1D
Entries 84
Mean −0.005556
Std Dev 1.069

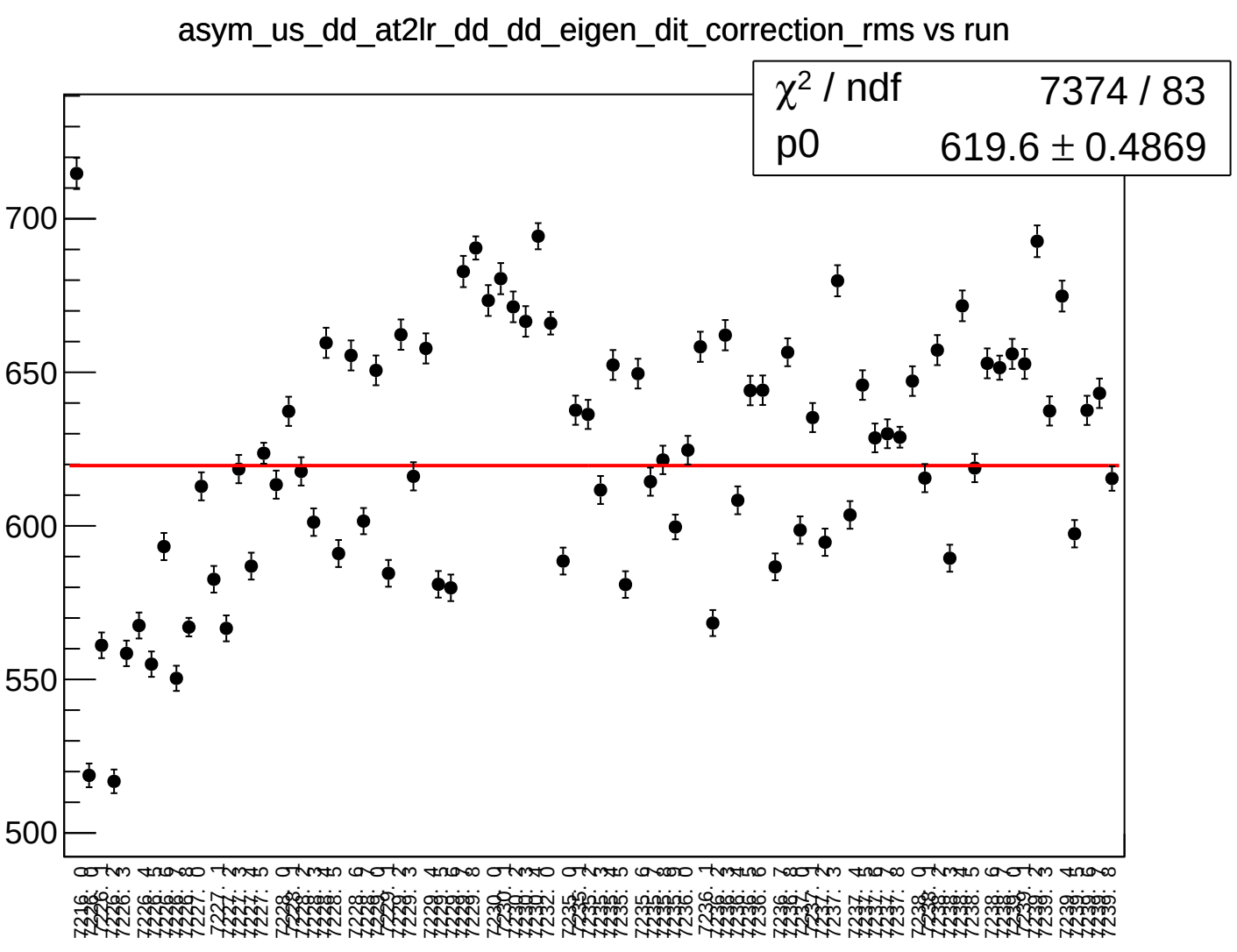

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 7374 / 83
p0 619.6 ± 0.487
700
650
600
550
500

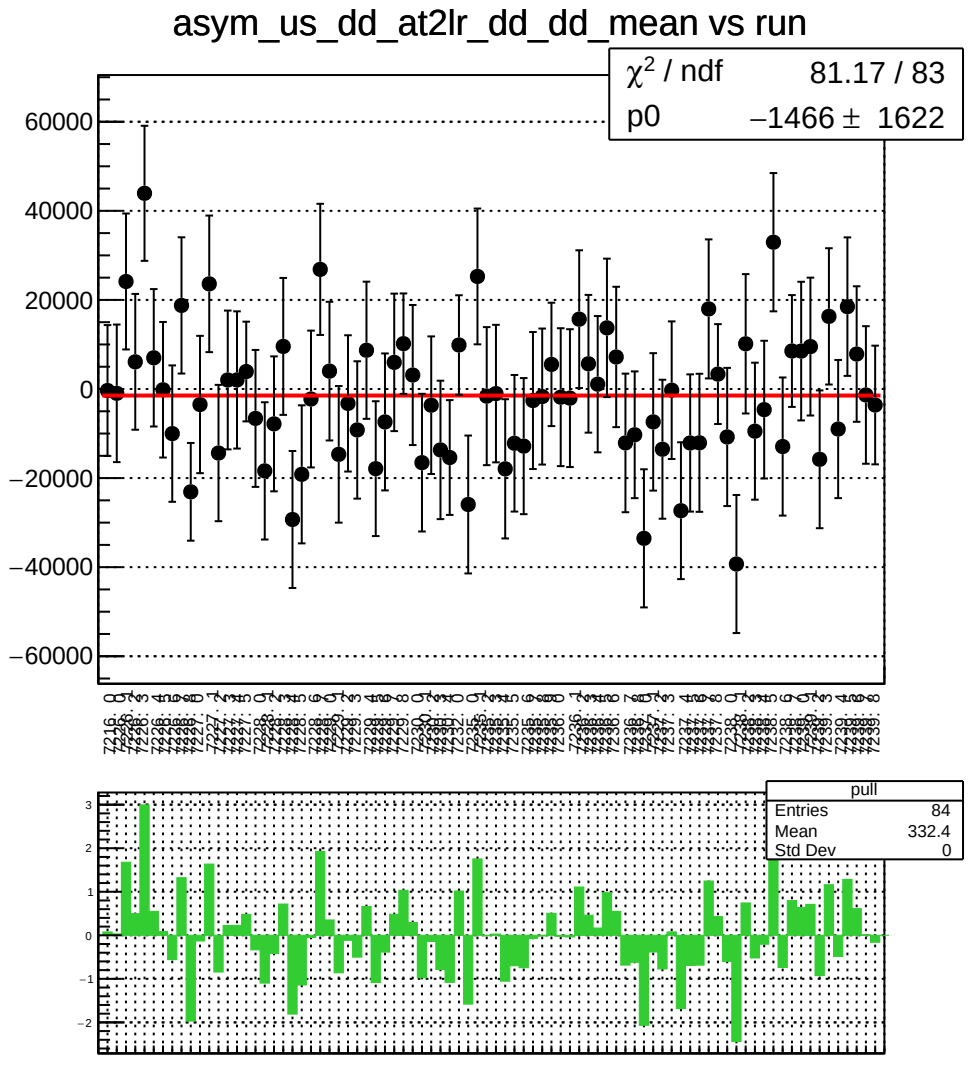

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 98.26 / 83
p0 −611.4 ± 1652
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 184.7
Std Dev 0
3
2
1
0
−1
−2

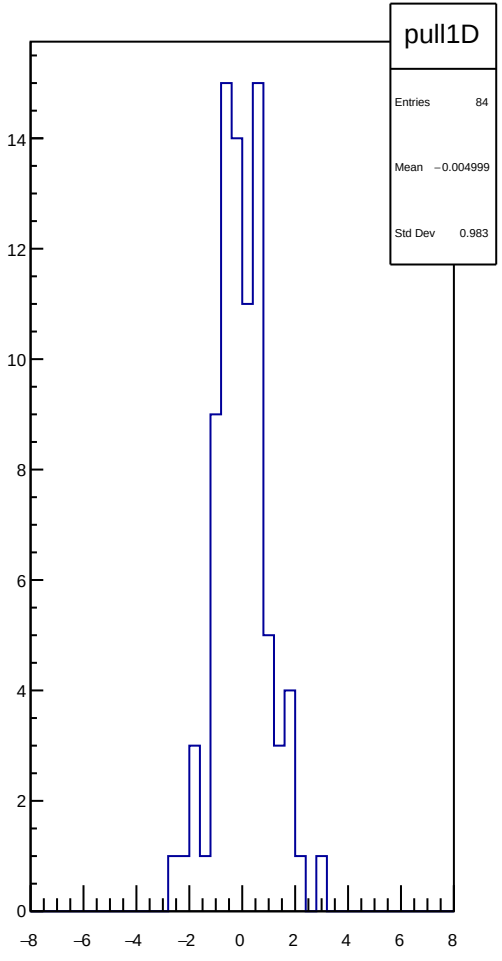

pull1D
Entries 84
Mean −0.005605
Std Dev 1.082
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

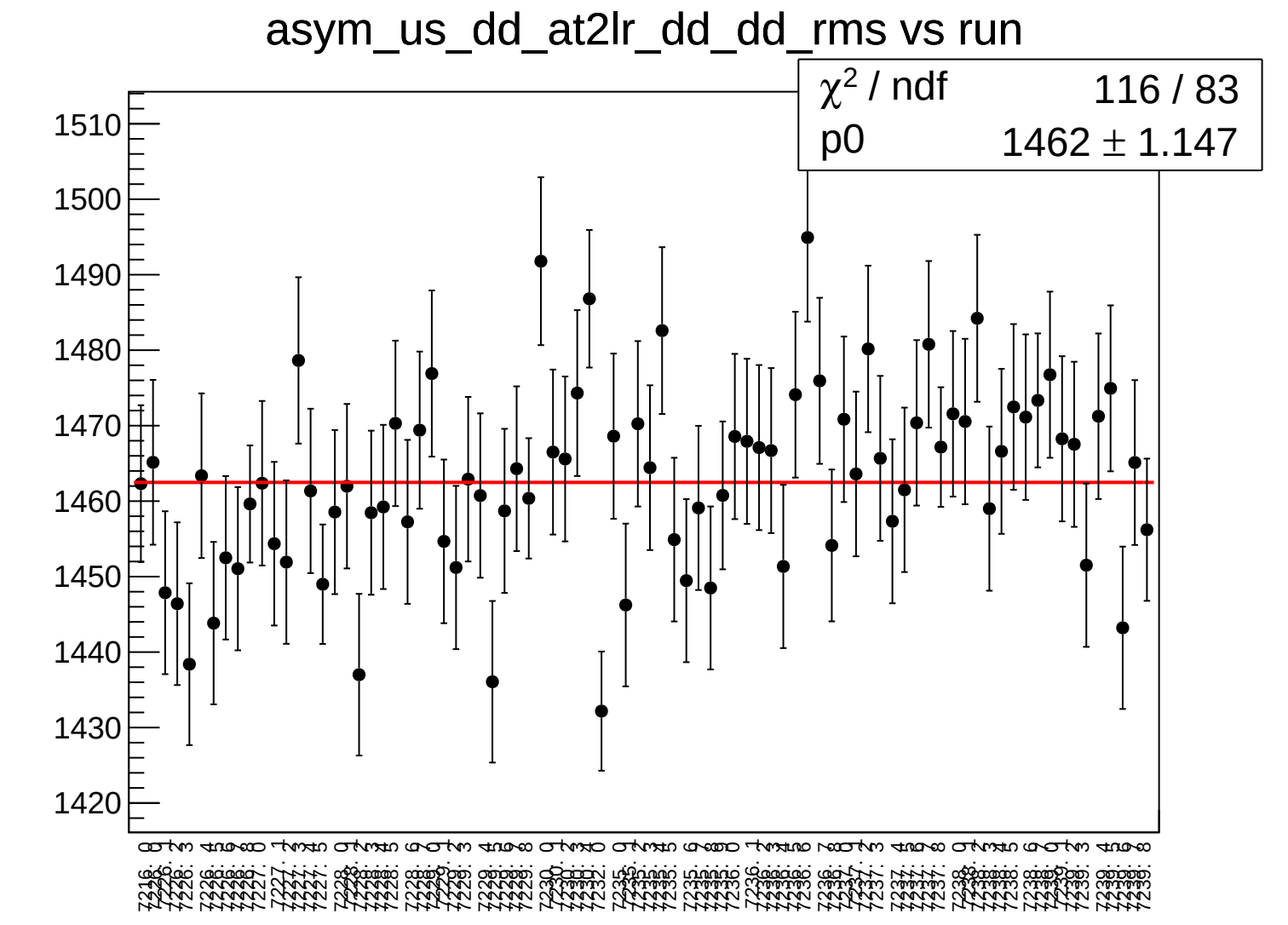

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ^2 / ndf 117.8 / 83
p0 1490 ± 1.168
1540
1520
1500
1480
1460

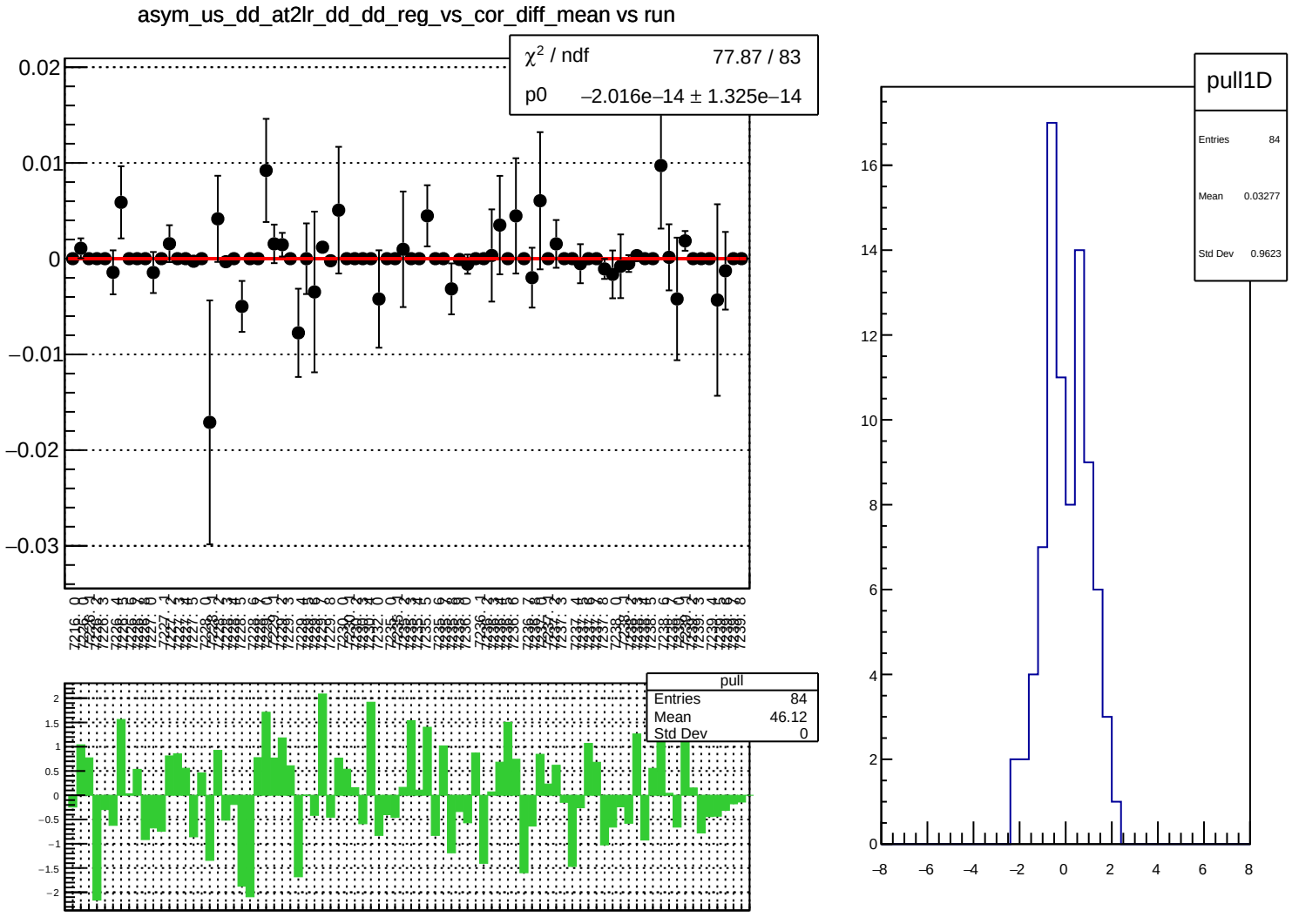

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 96.02 / 83
p0 903.8 ± 688.7
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −230.9
Std Dev 0
pull1D
Entries 84
Mean −0.005556
Std Dev 1.069

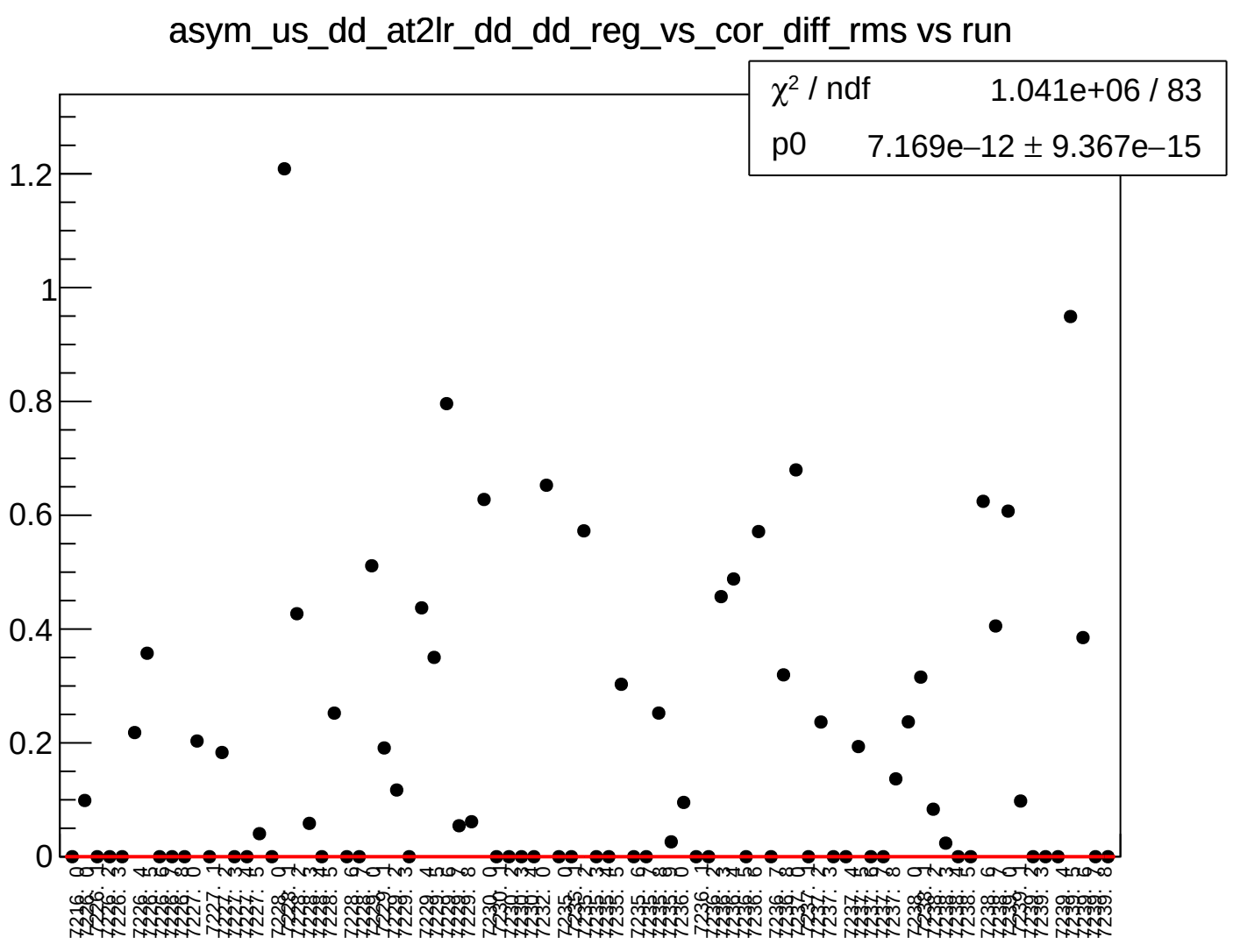

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 7374 / 83
p0 619.6 ± 0.4869
700
650
600
550
500

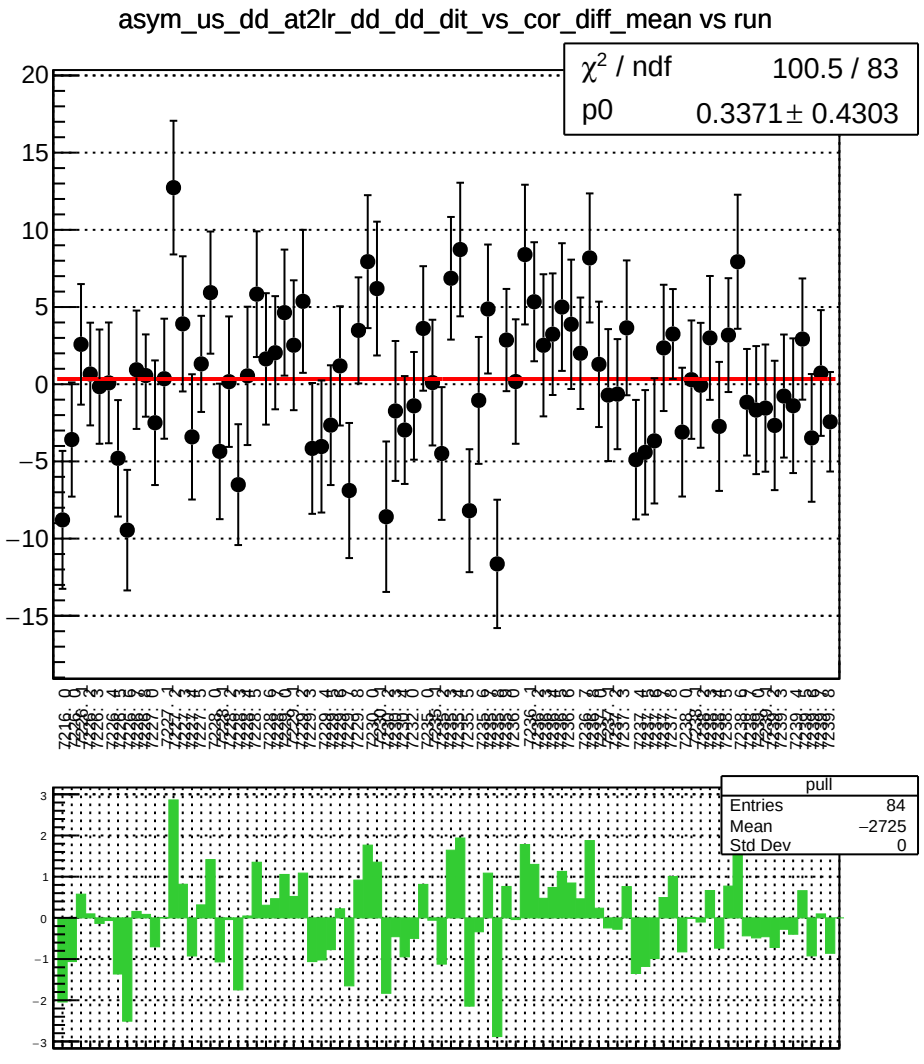

asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 81.17 / 83
p0 −1466 ± 1622
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 332.4
Std Dev 0
3
2
1
0
−1
−2

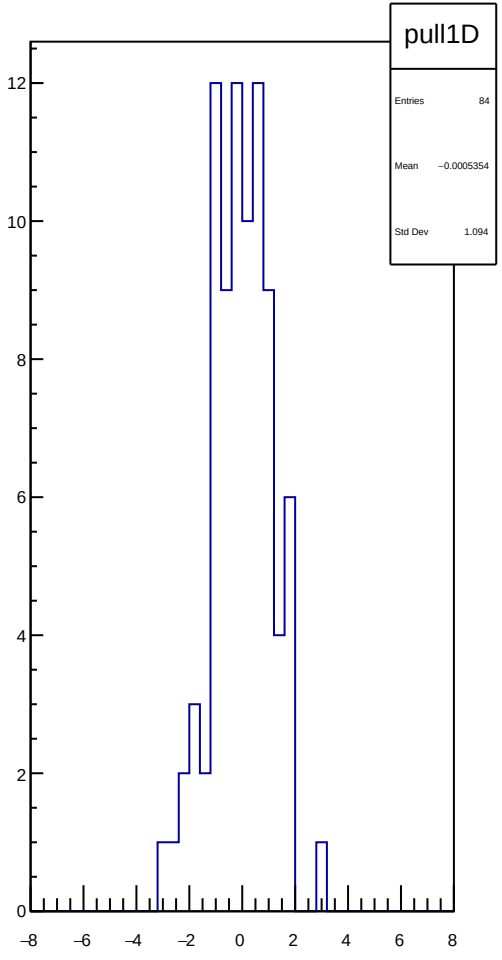

pull1D
Entries 84
Mean −0.004999
Std Dev 0.983
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

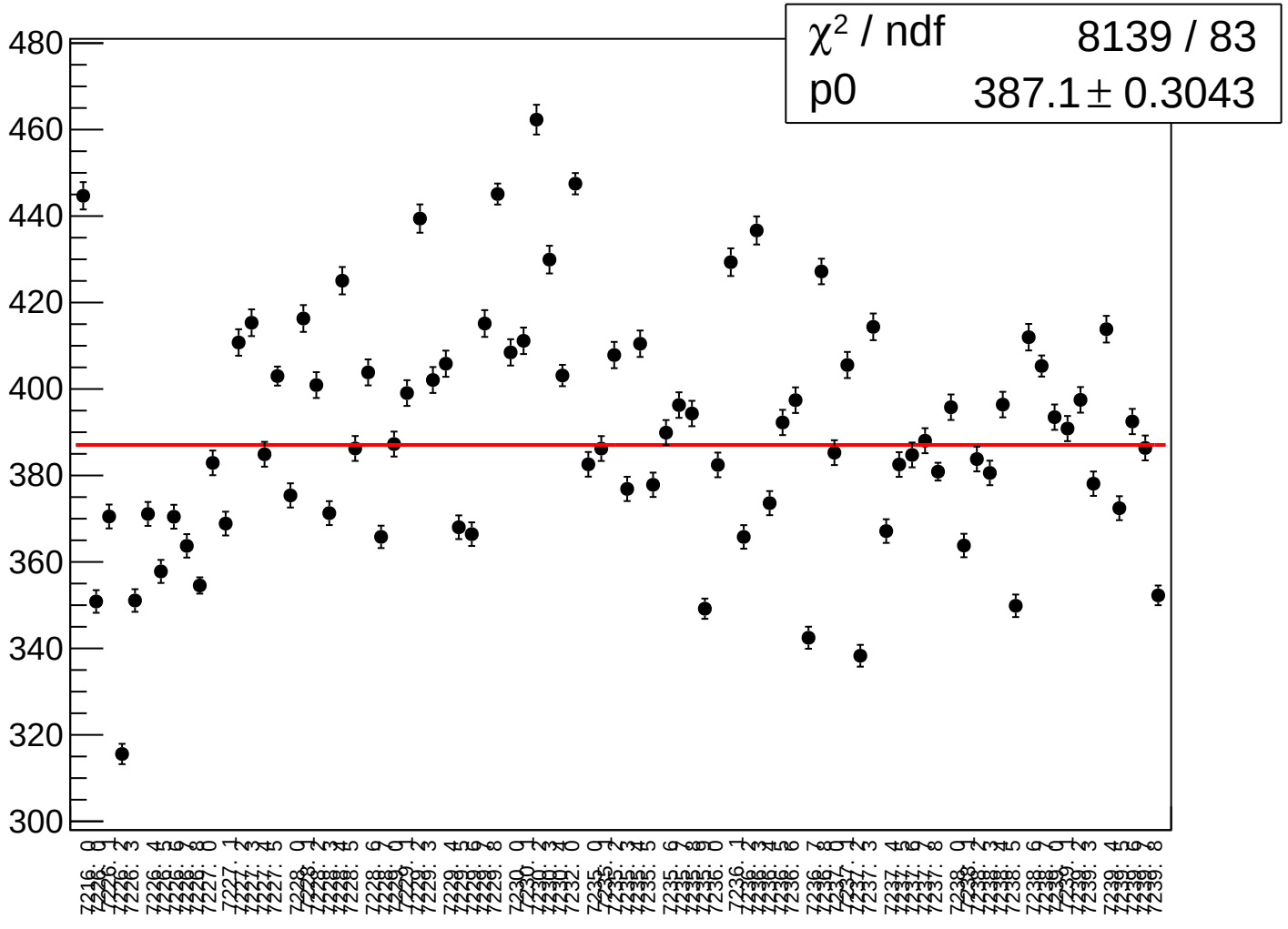

asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 116 / 83
p0 1462 ± 1.147
1510
1500
1490
1480
1470
1460
1450
1440
1430
1420

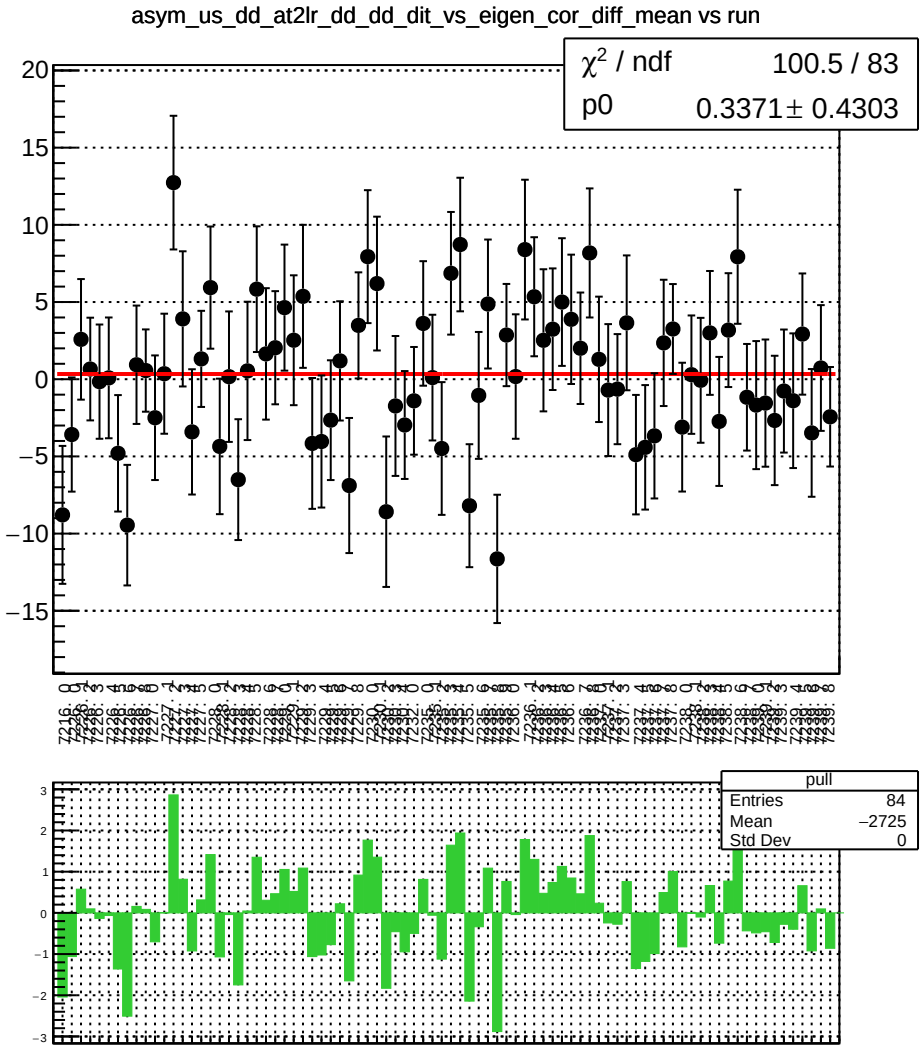

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 77.87 / 83
p0 −2.016e−14 ± 1.325e−14
pull
Entries 84
Mean 46.12
Std Dev 0
pull1D
Entries 84
Mean 0.03277
Std Dev 0.9623

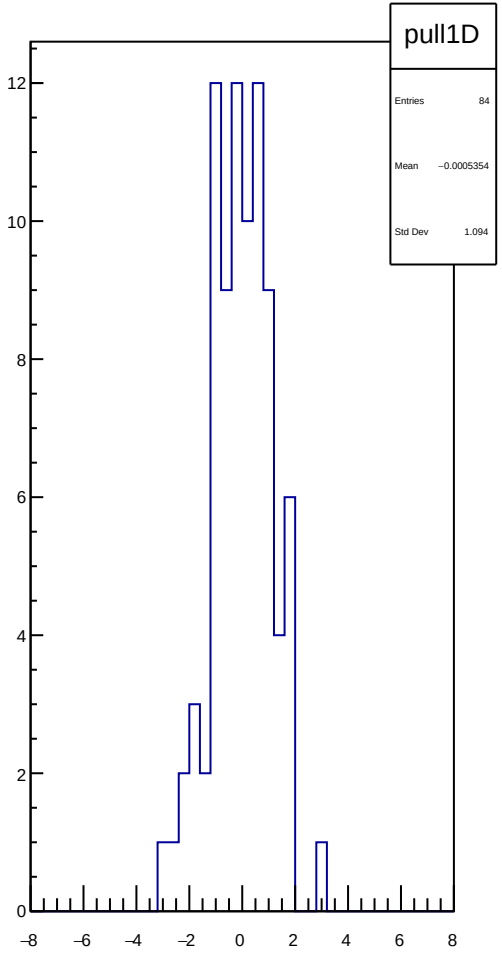

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.041e+06 / 83
p0 7.169e−12 ± 9.367e−15
1.2
1
0.8
0.6
0.4
0.2
0

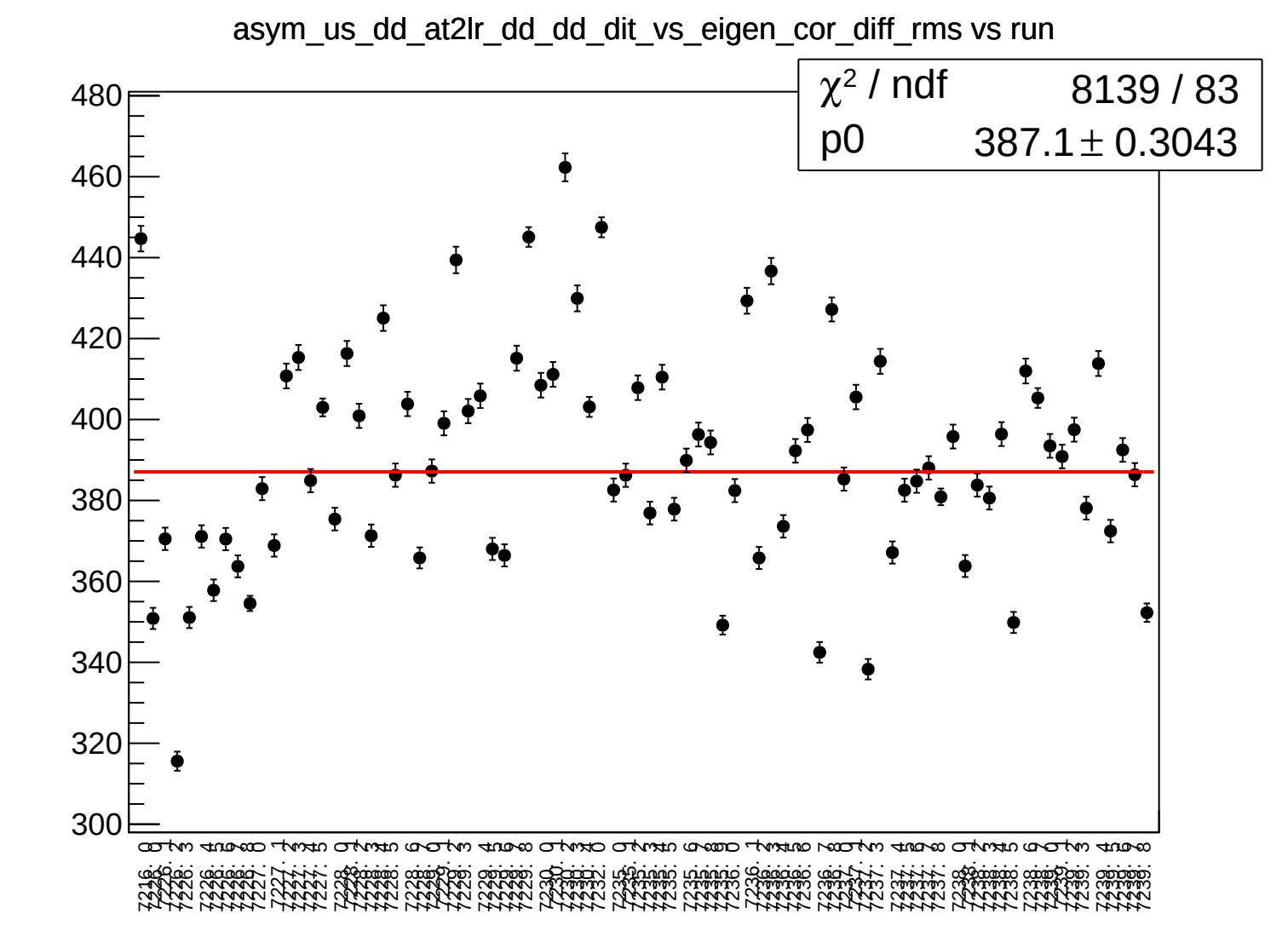

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 100.5 / 83
p0 0.3371± 0.4303
pull
Entries 84
Mean −2725
Std Dev 0

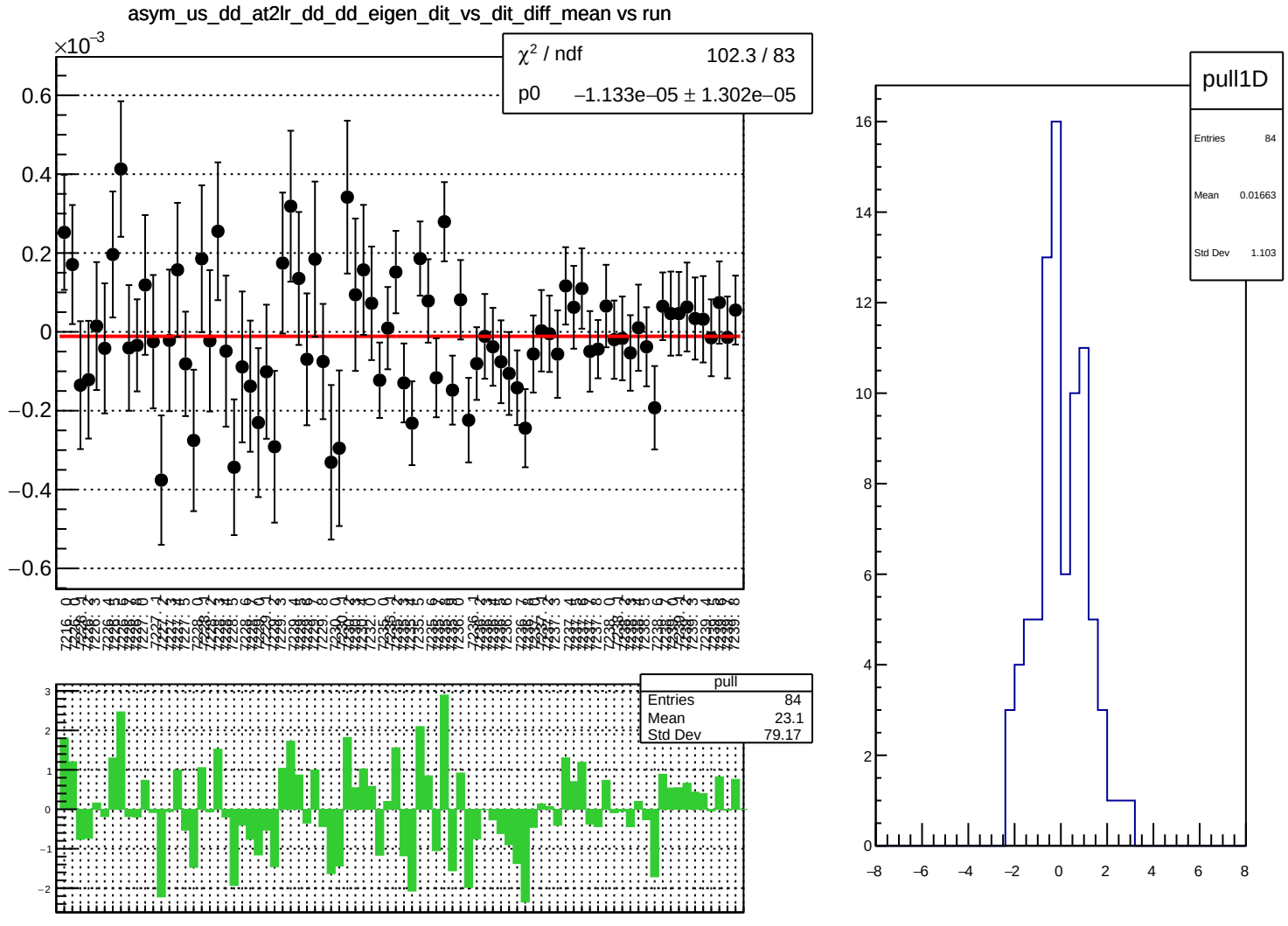

pull1D
Entries 84
Mean −0.0005354
Std Dev 1.094

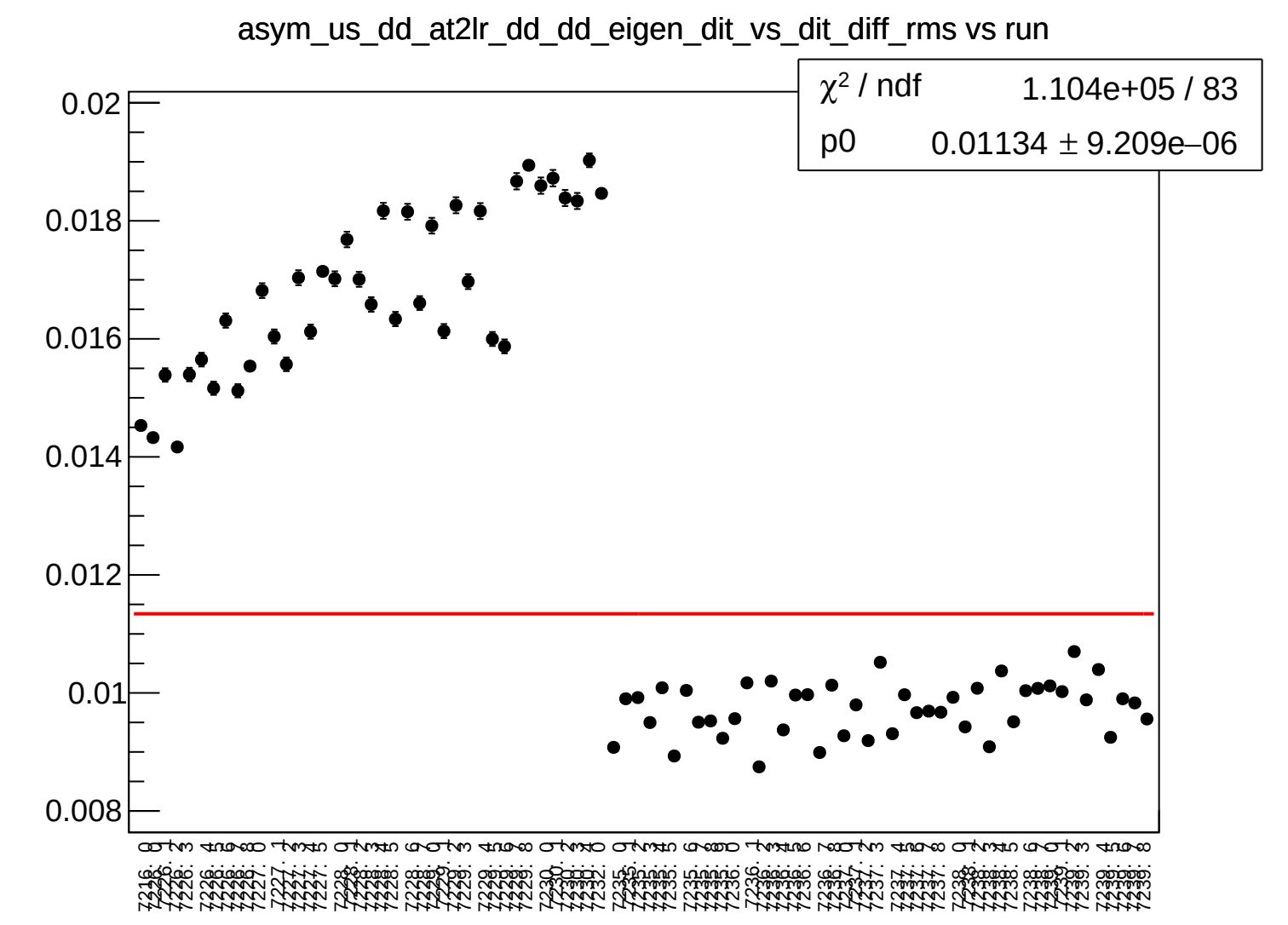

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8139 / 83
p0 387.1 ± 0.3043
480
460
440
420
400
380
360
340
320
300

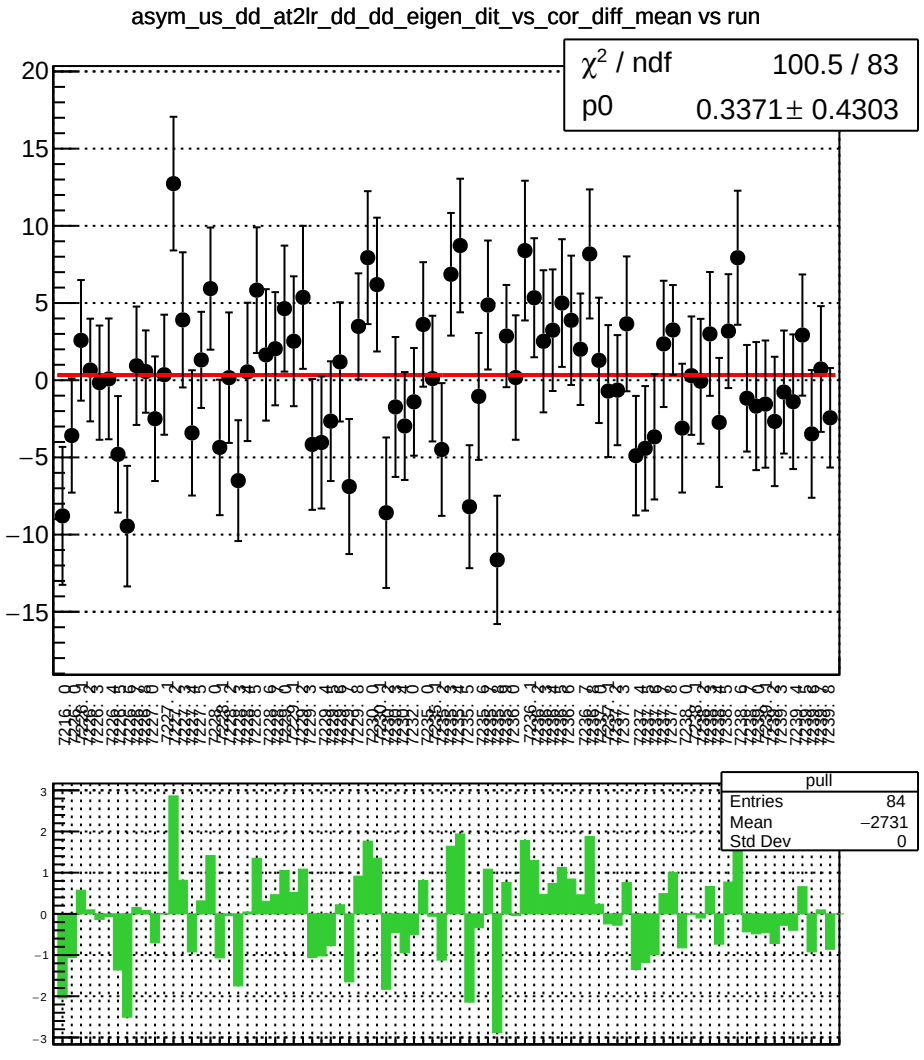

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.5 / 83
p0 0.3371± 0.4303
pull
Entries 84
Mean −2725
Std Dev 0

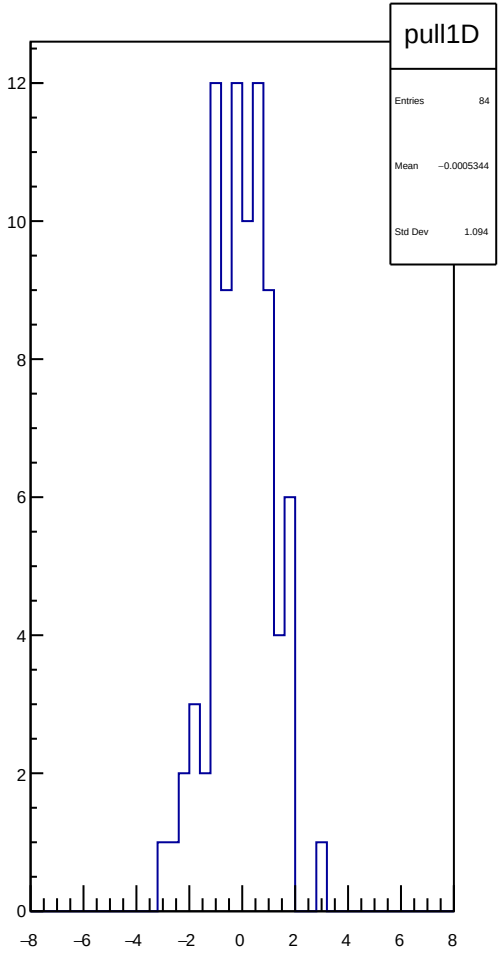

pull1D
Entries 84
Mean −0.0005354
Std Dev 1.094

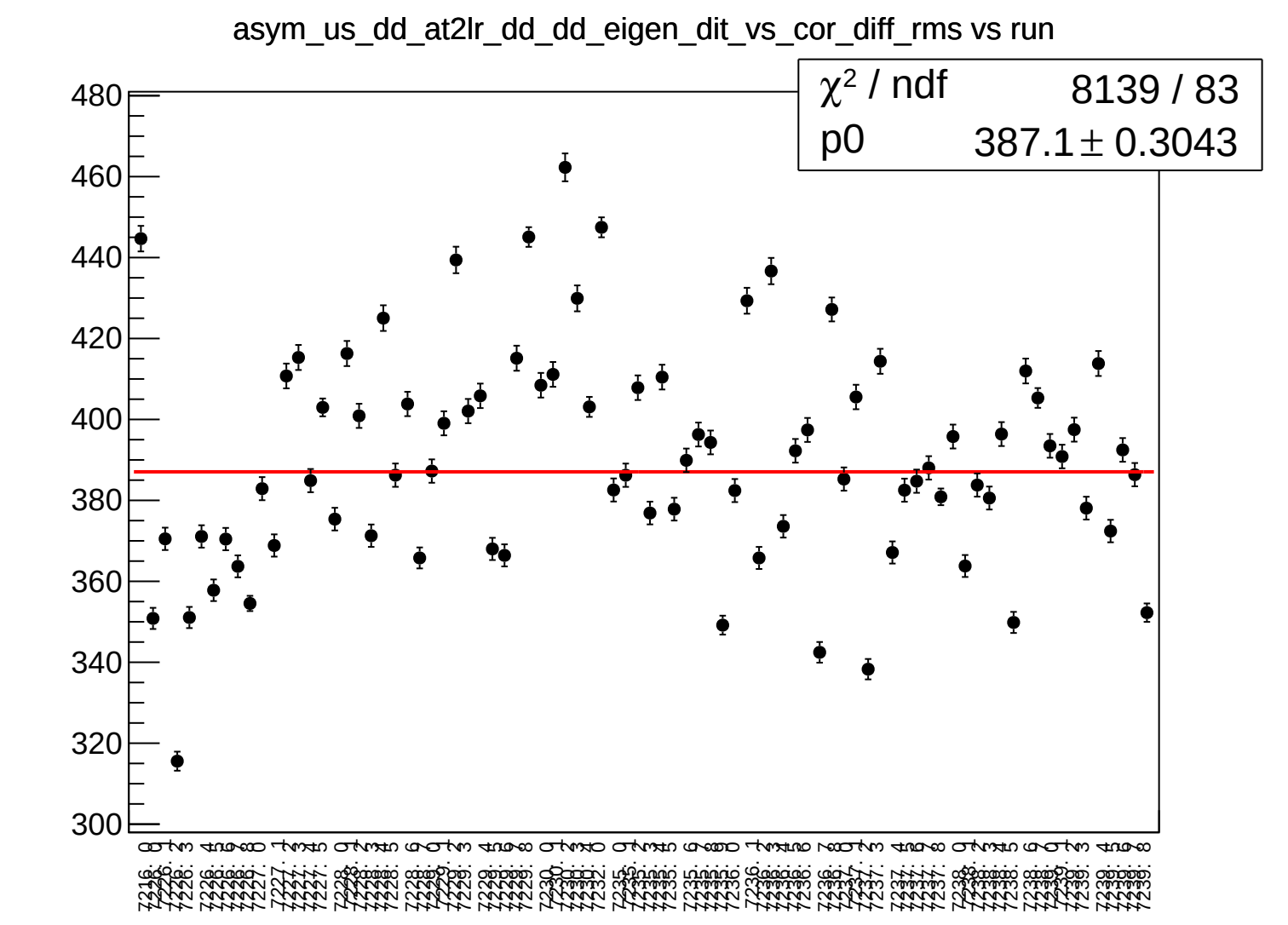

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8139 / 83
p0 387.1 ± 0.3043
480
460
440
420
400
380
360
340
320
300

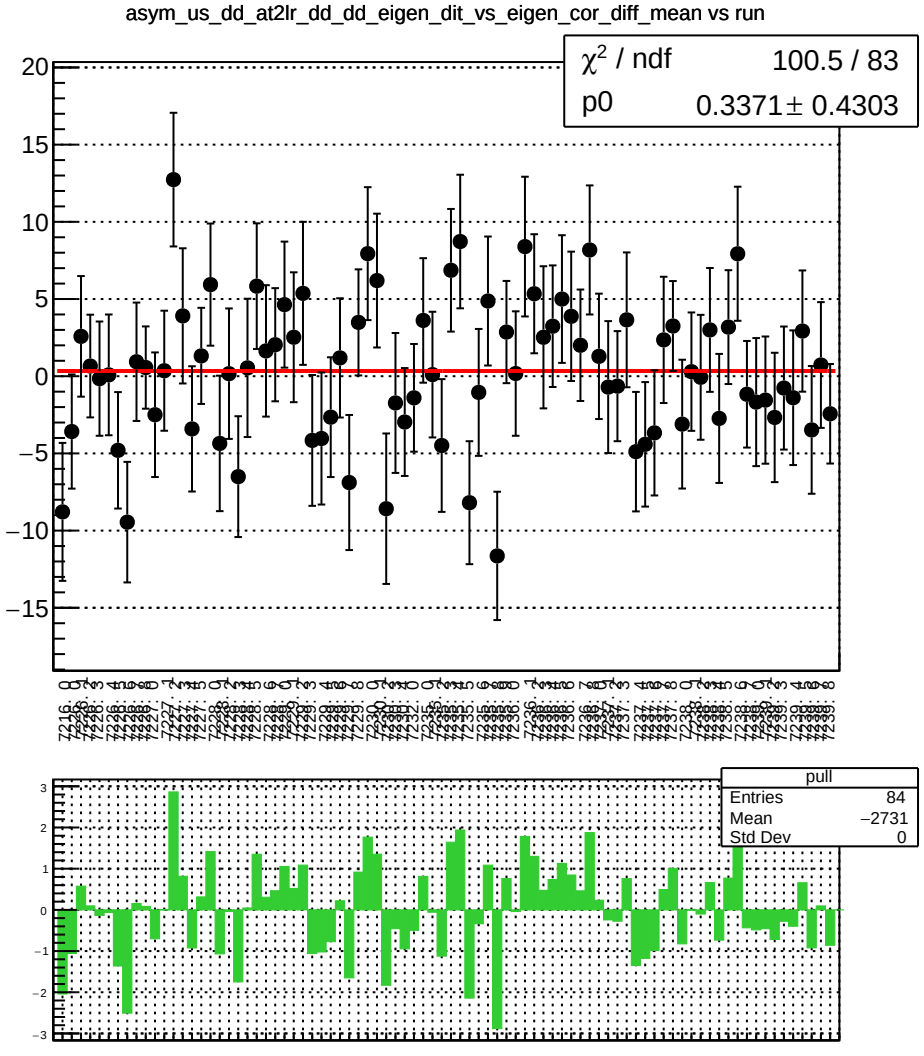

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 102.3 / 83
p0 −1.133e−05 ± 1.302e−05
pull
Entries 84
Mean 23.1
Std Dev 79.17
pull1D
Entries 84
Mean 0.01663
Std Dev 1.103

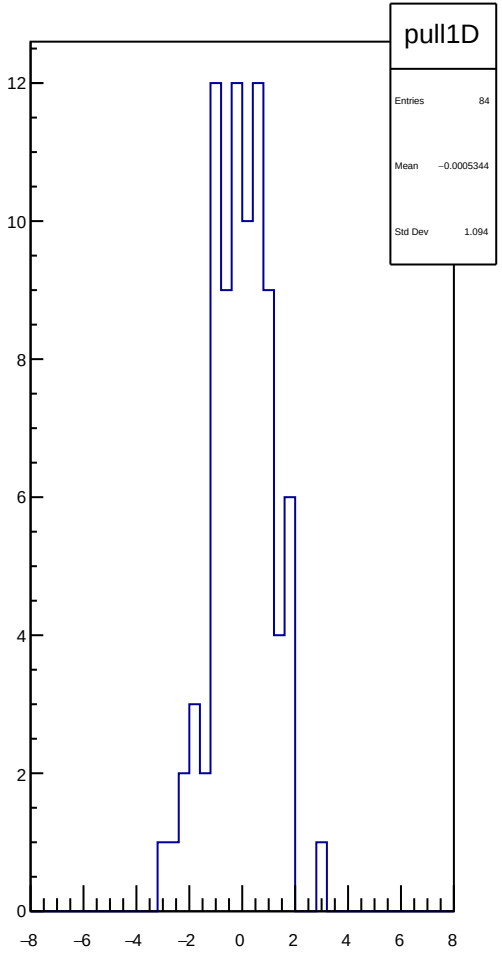

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.104e+05 / 83
p0 0.01134 ± 9.209e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008

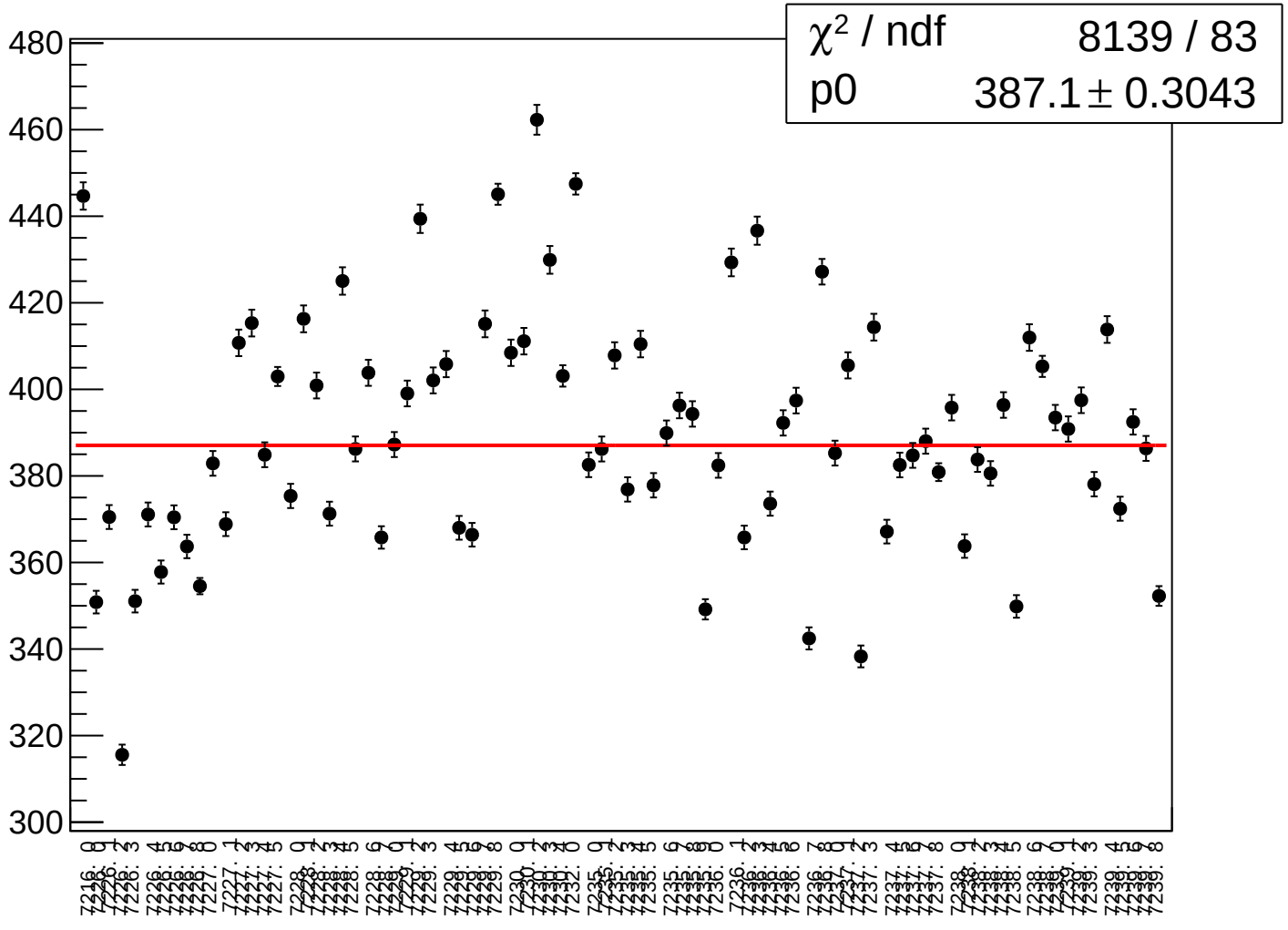

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.5 / 83
p0 0.3371± 0.4303
pull
Entries 84
Mean −2731
Std Dev 0

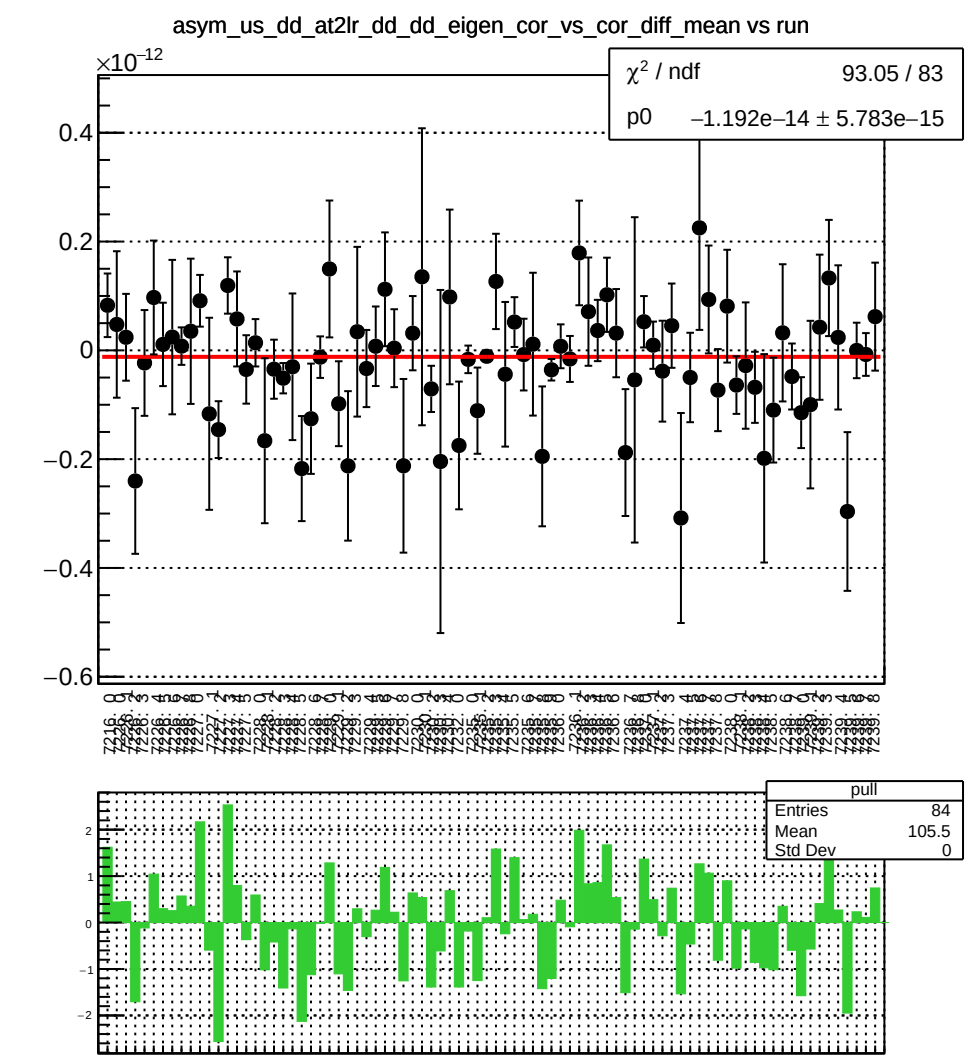

pull1D
Entries 84
Mean −0.0005344
Std Dev 1.094

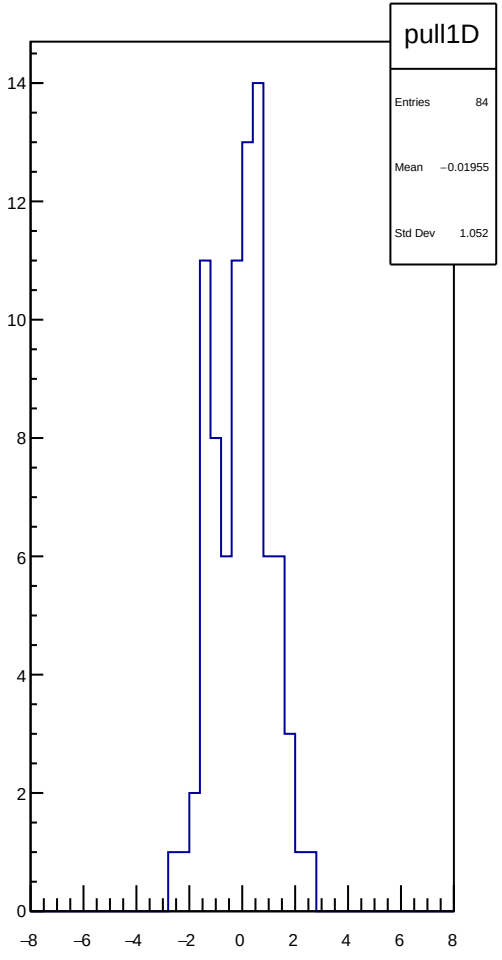

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8139 / 83
p0 387.1 ± 0.3043
480
460
440
420
400
380
360
340
320
300

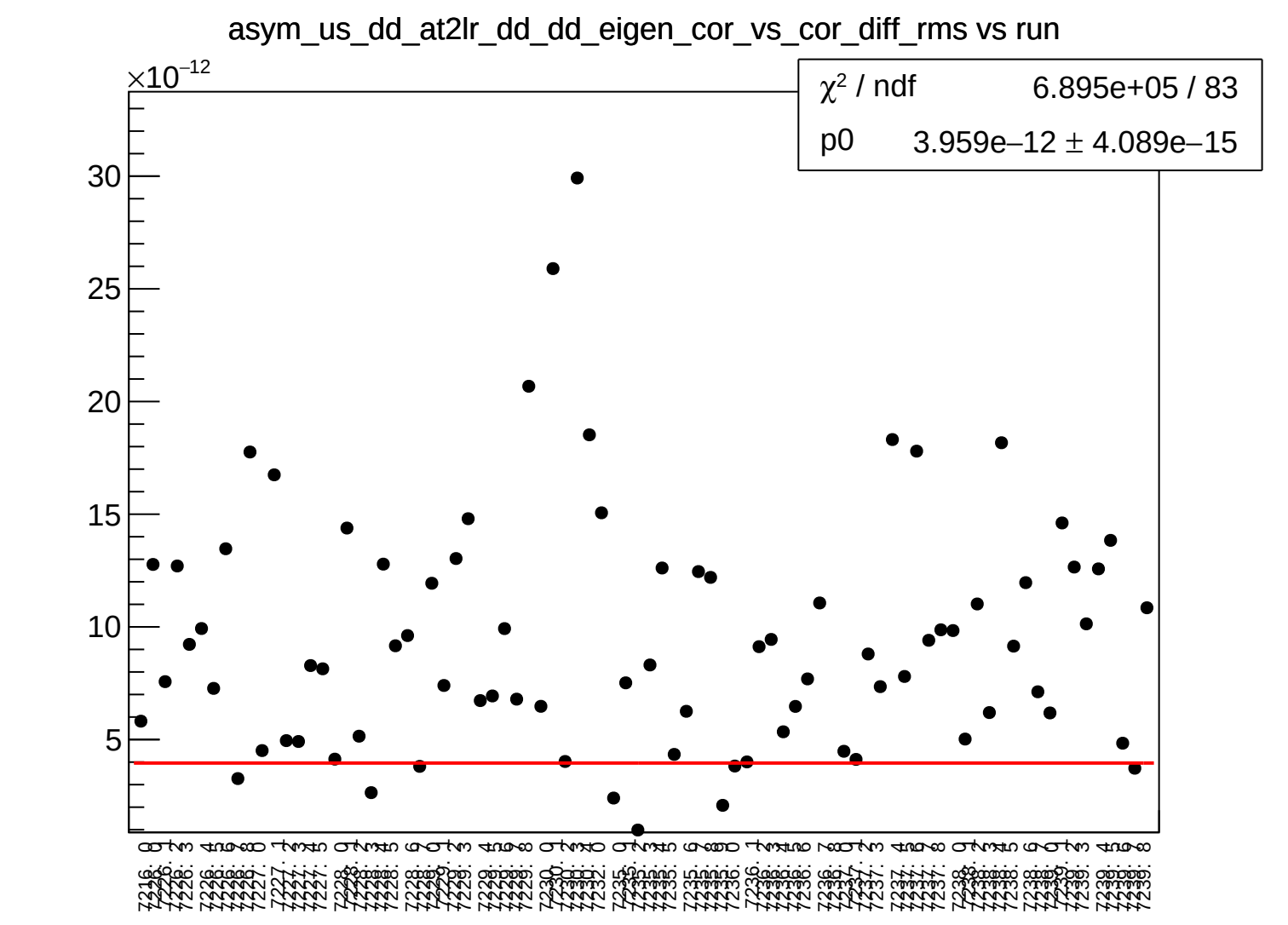

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.5 / 83
p0 0.3371± 0.4303
pull
Entries 84
Mean −2731
Std Dev 0

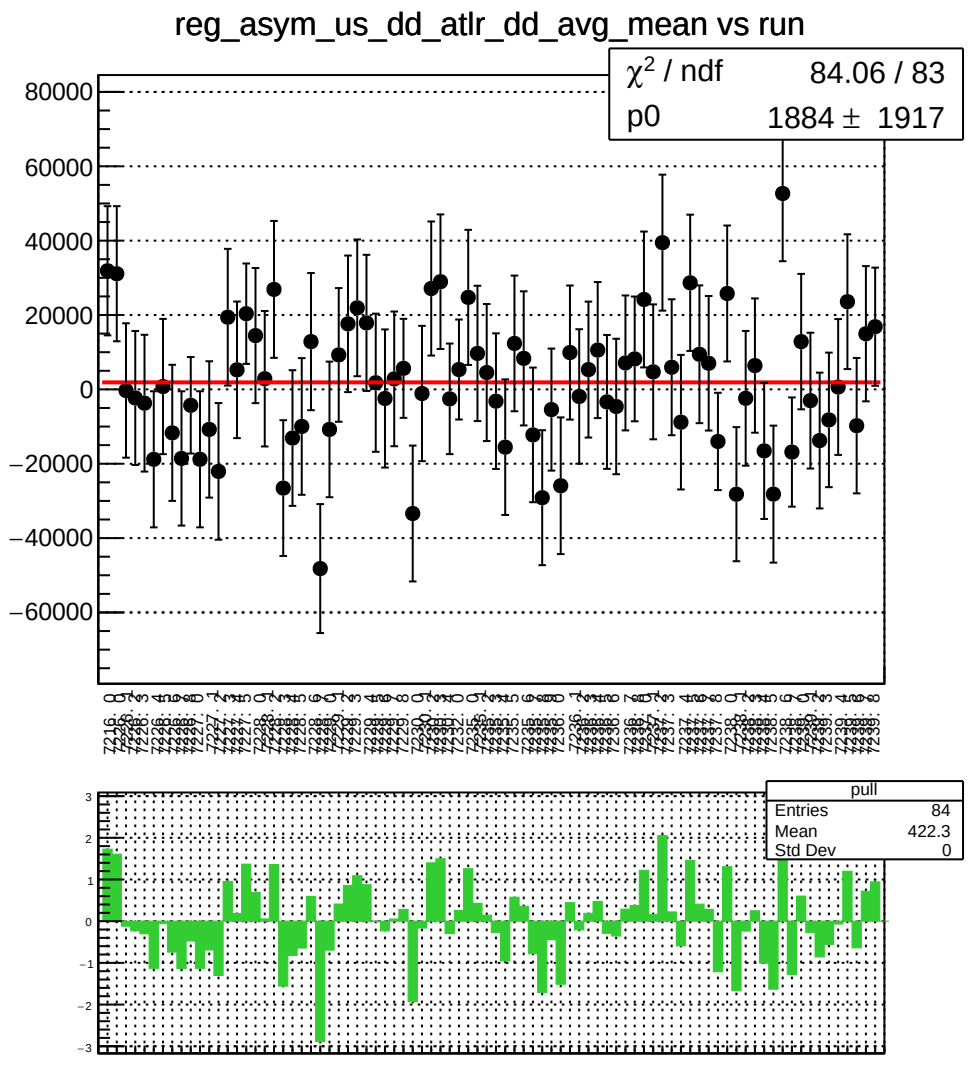

pull1D
Entries 84
Mean −0.0005344
Std Dev 1.094

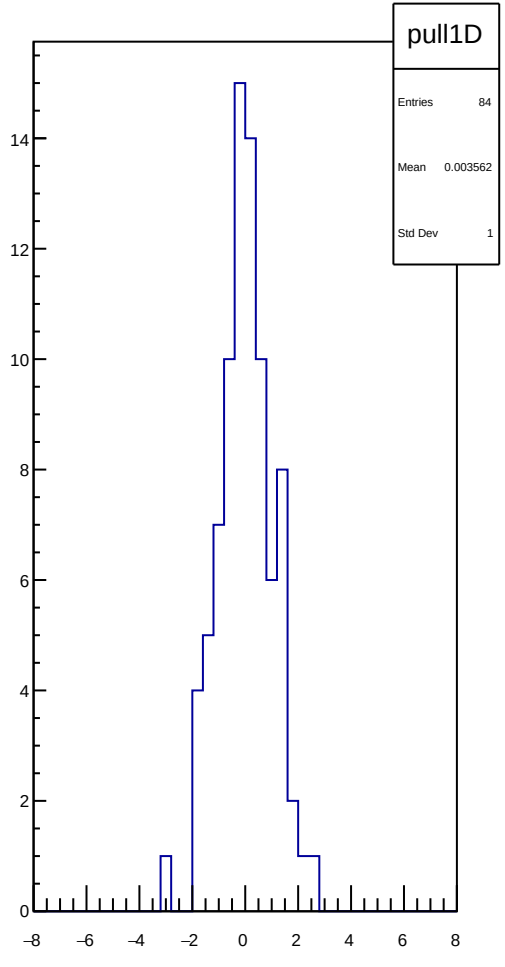

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8139 / 83
p0 387.1 ± 0.3043
480
460
440
420
400
380
360
340
320
300

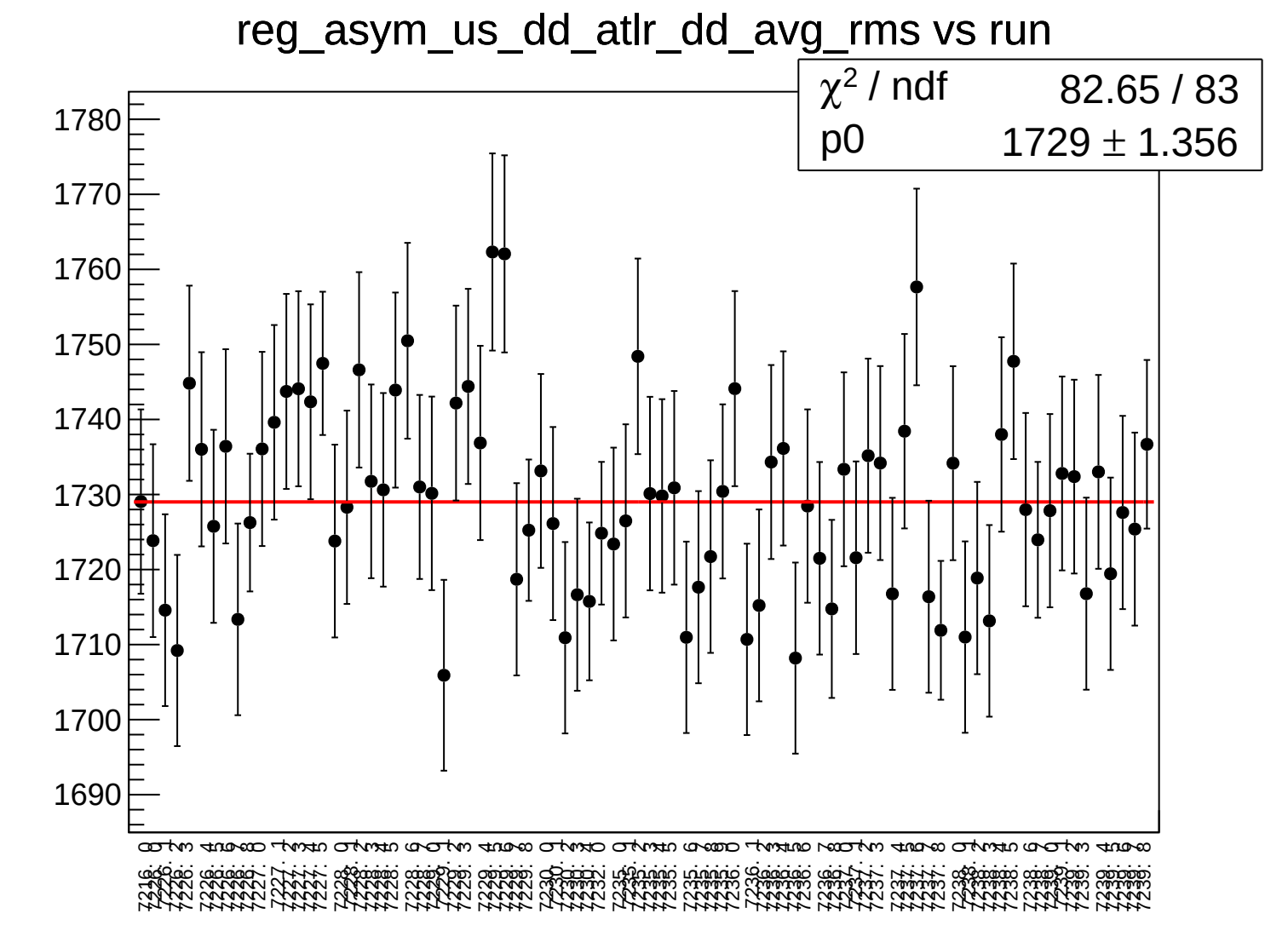

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.05 / 83
p0 −1.192e−14 ± 5.783e−15
pull
Entries 84
Mean 105.5
Std Dev 0

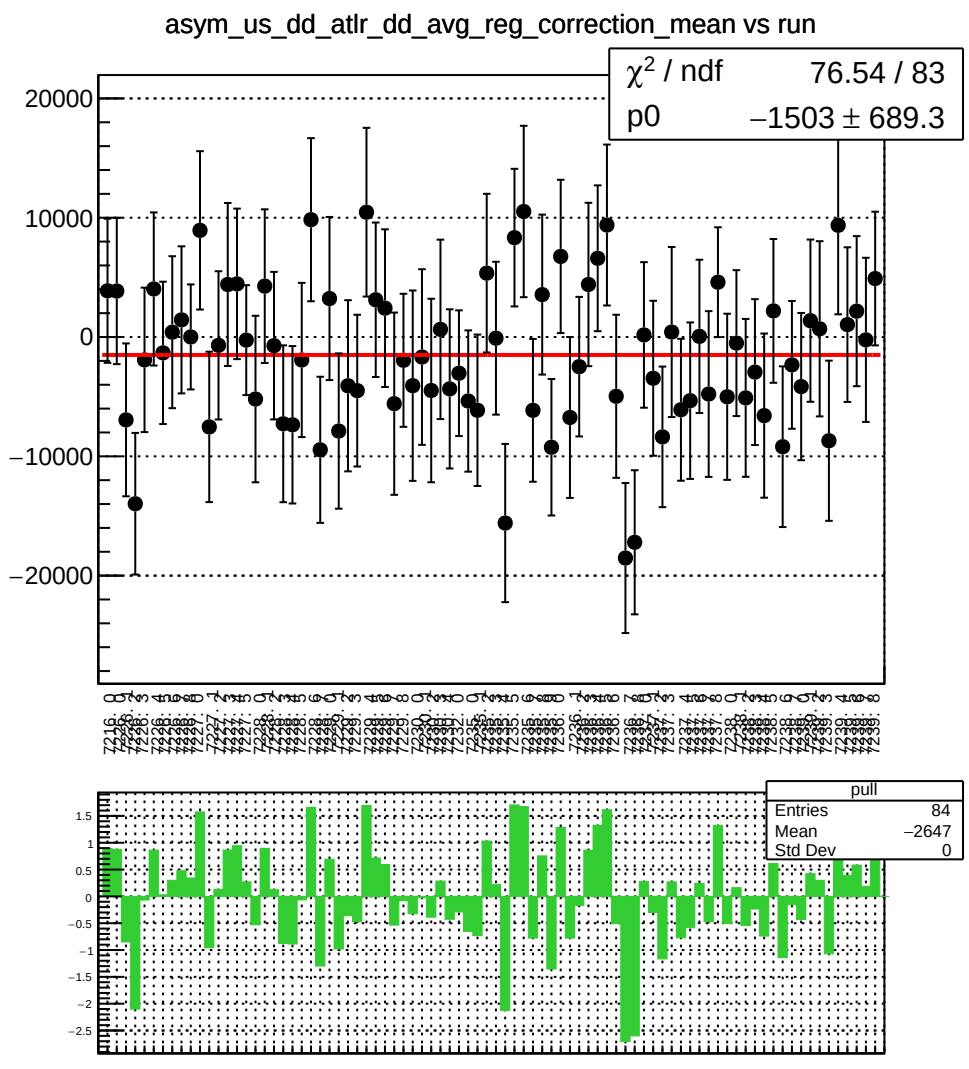

pull1D
Entries 84
Mean −0.01955
Std Dev 1.052

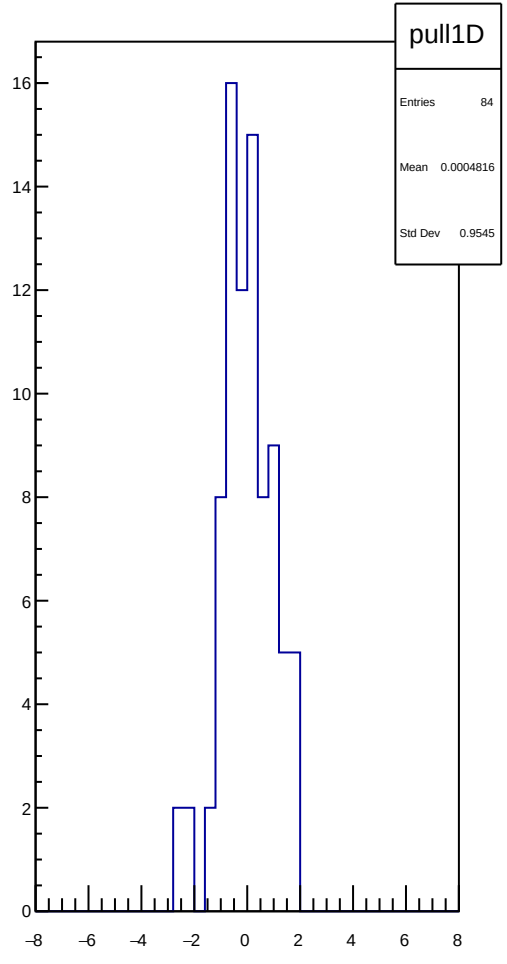

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.895e+05 / 83
p0 3.959e−12 ± 4.089e−15
30
25
20
15
10
5

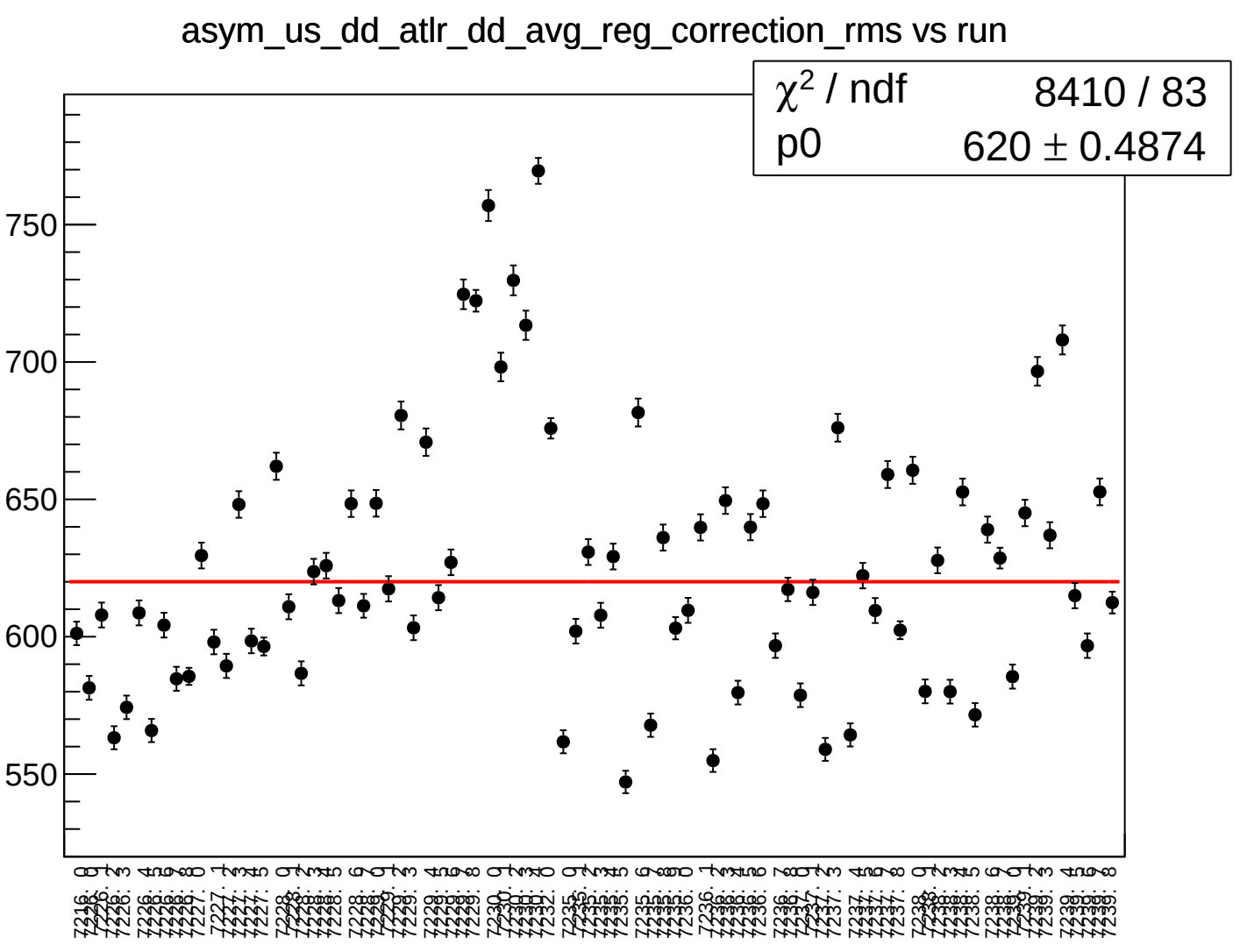

reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 84.06 / 83
p0 1884 ± 1917
pull
Entries 84
Mean 422.3
Std Dev 0

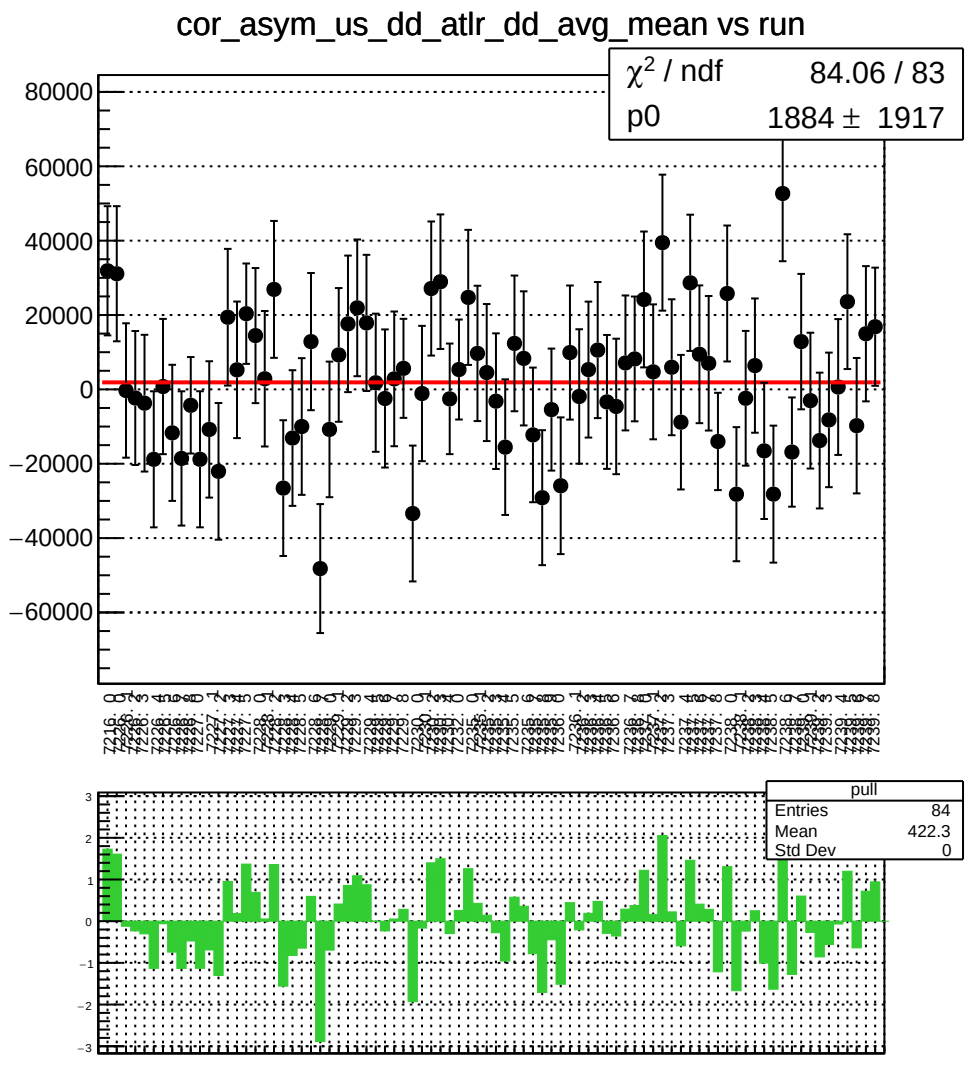

pull1D
Entries 84
Mean 0.003562
Std Dev 1

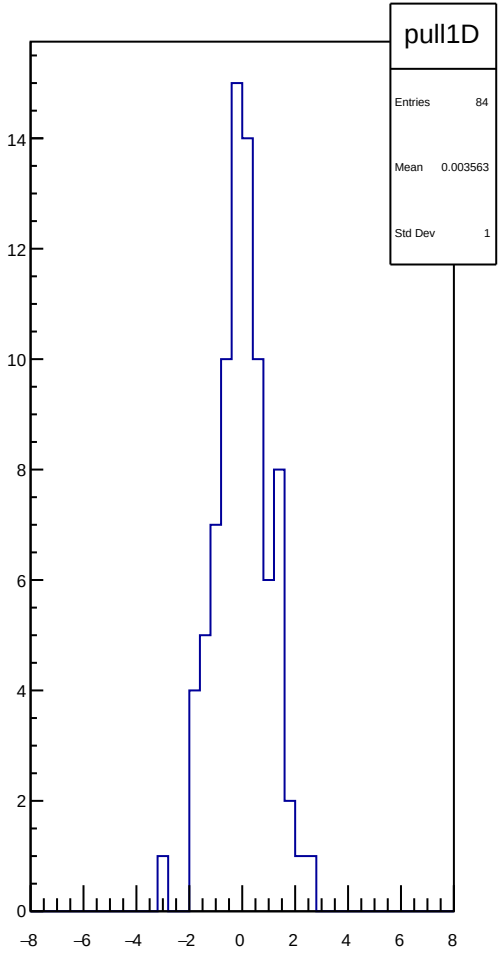

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ^2 / ndf 82.65 / 83
p0 1729 ± 1.356
1780
1770
1760
1750
1740
1730
1720
1710
1700
1690

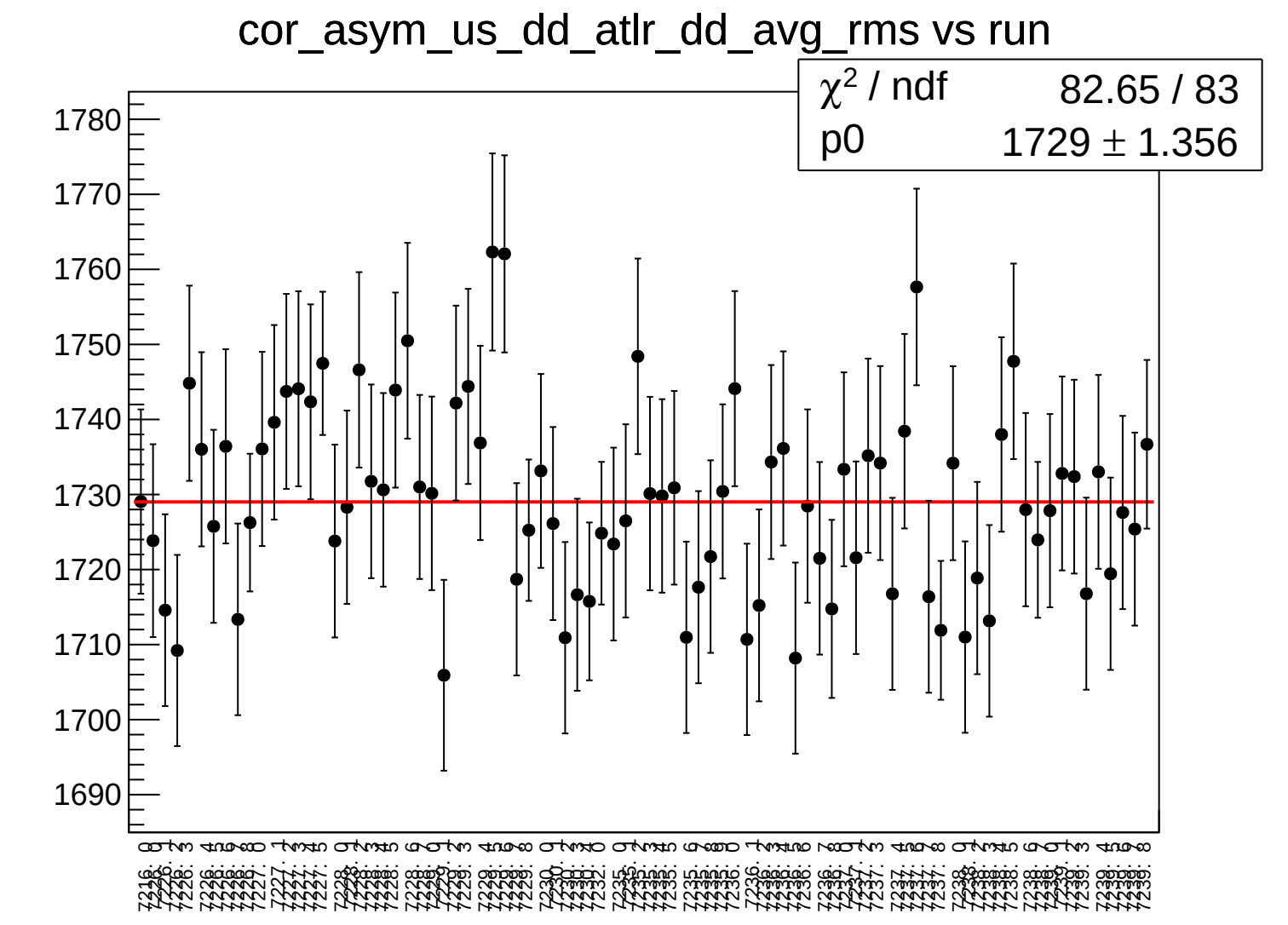

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
χ² / ndf 76.54 / 83
p0 −1503 ± 689.3
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −2647
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

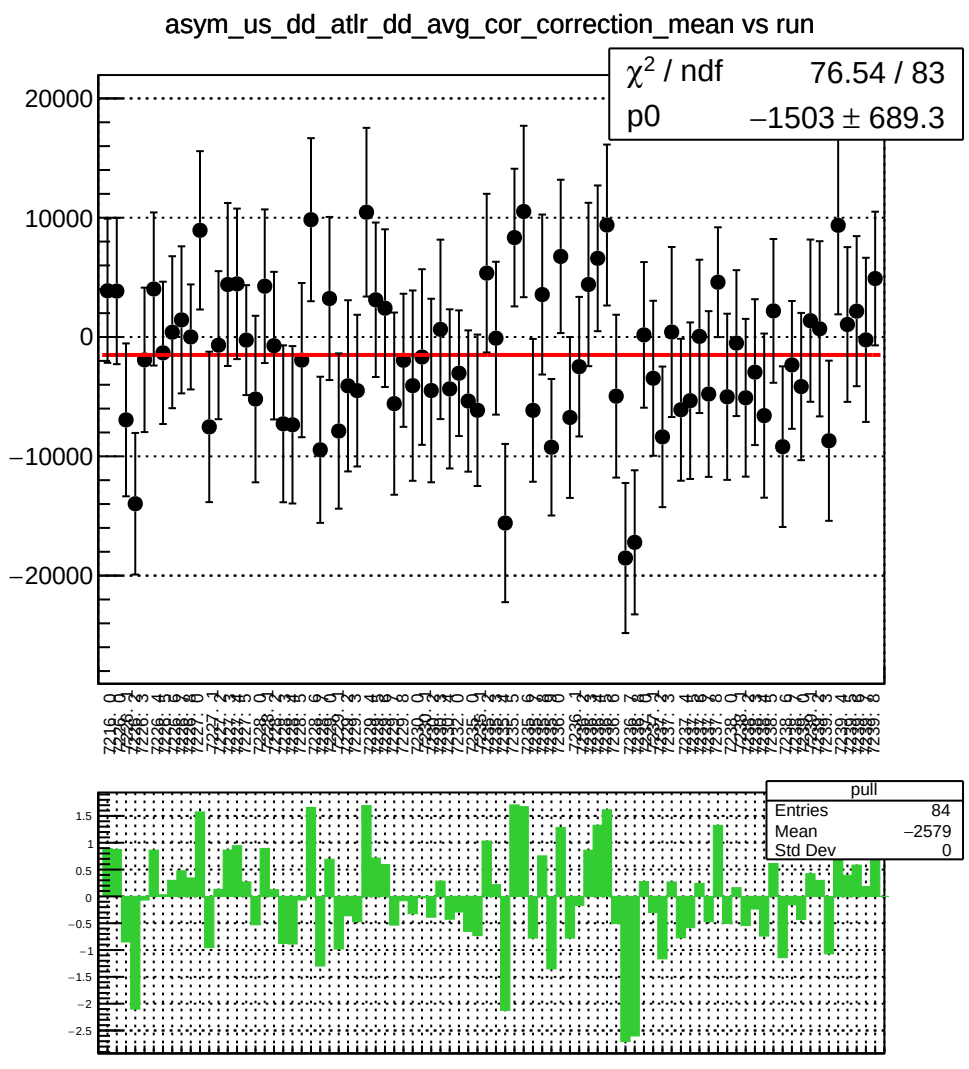

pull1D
Entries 84
Mean 0.0004816
Std Dev 0.9545
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

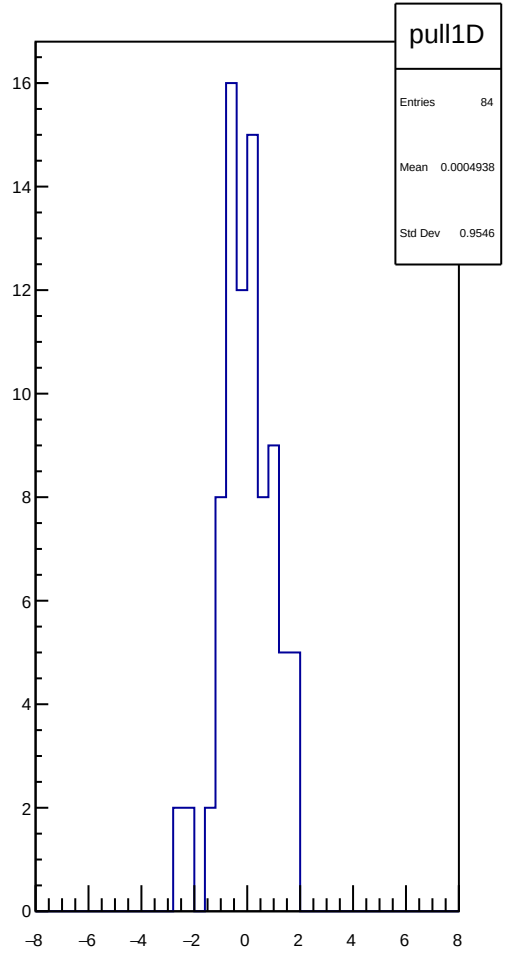

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 8410 / 83
p0 620 ± 0.4874
750
700
650
600
550

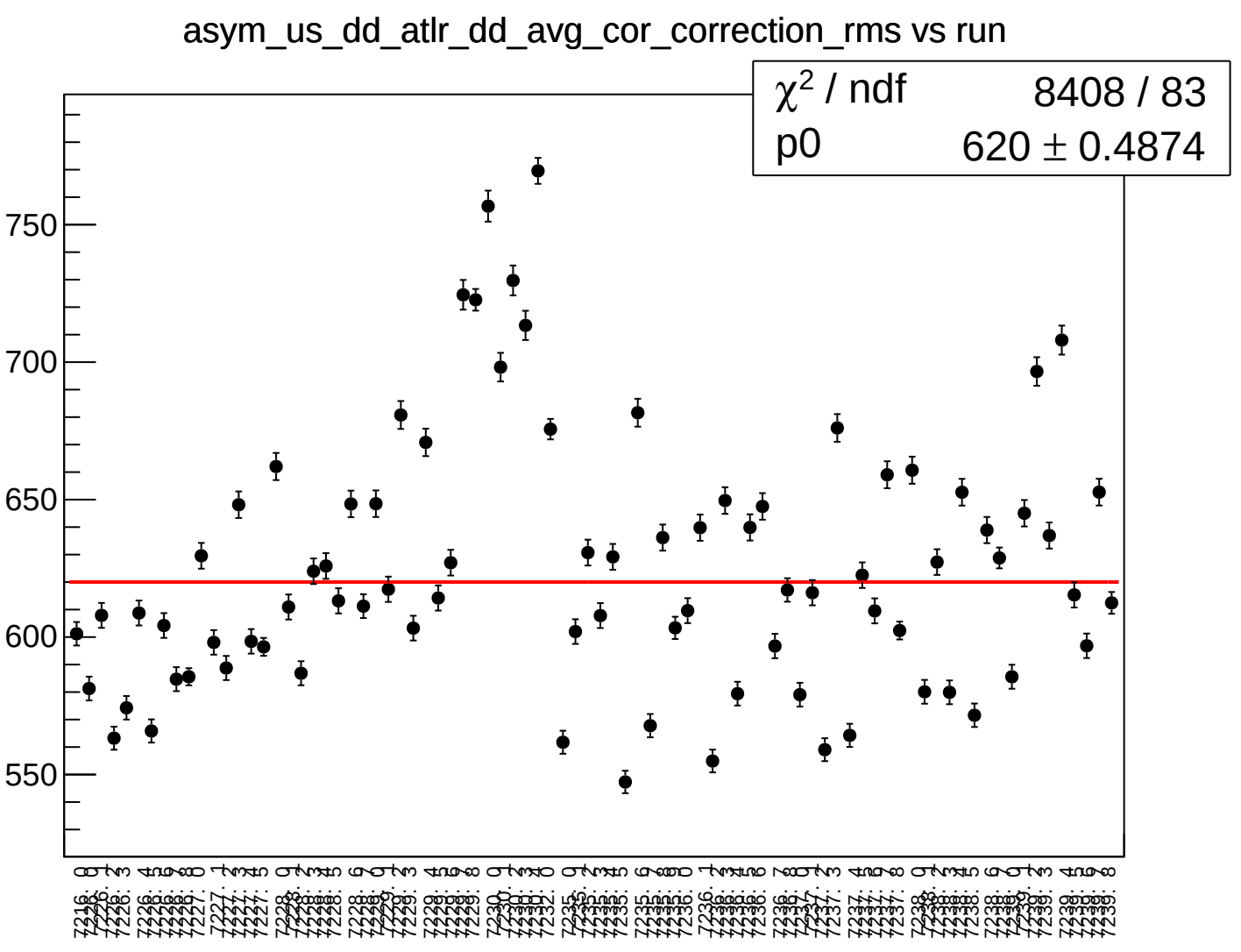

cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 84.06 / 83
p0 1884 ± 1917
pull
Entries 84
Mean 422.3
Std Dev 0

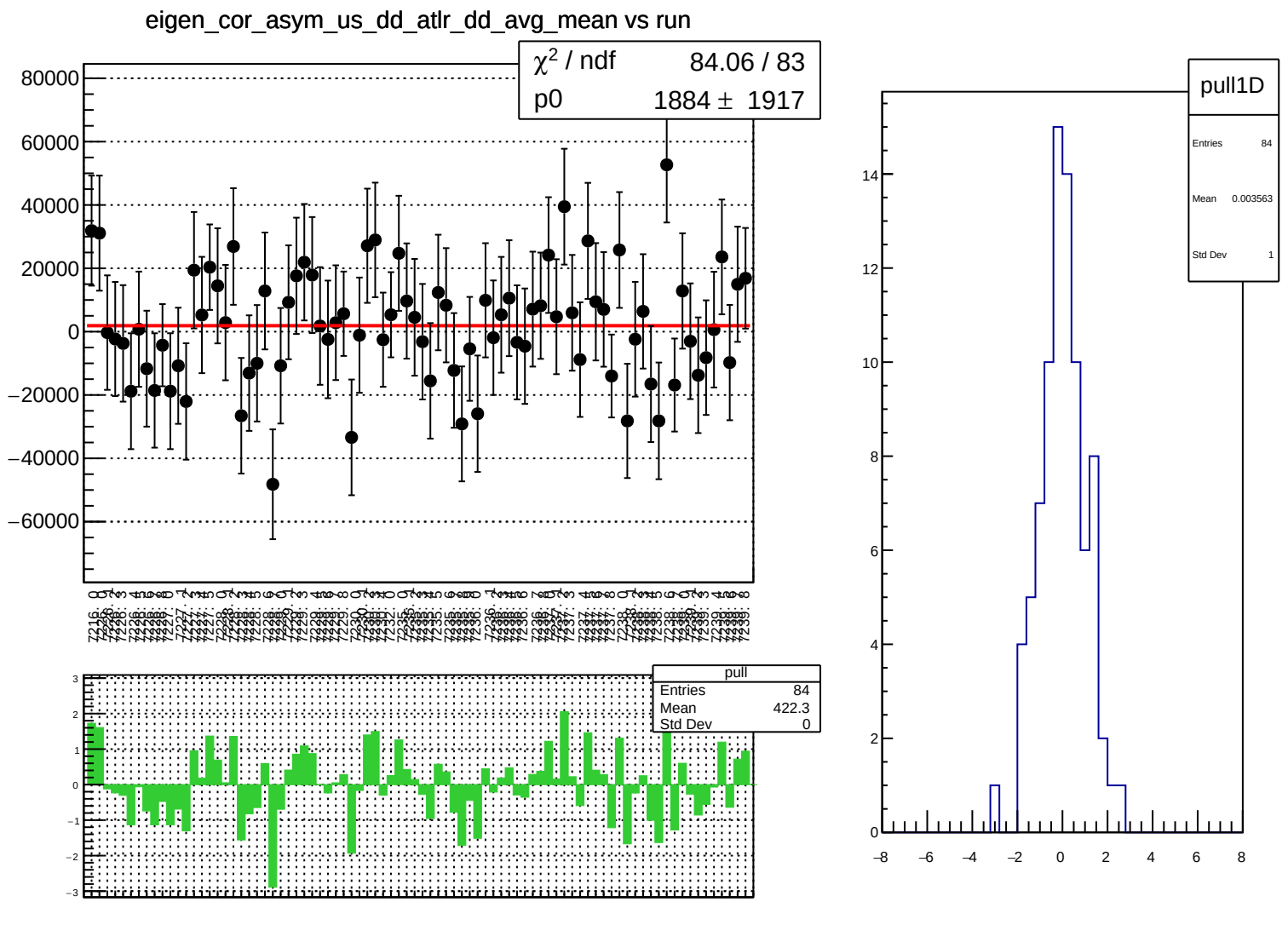

pull1D
Entries 84
Mean 0.003563
Std Dev 1

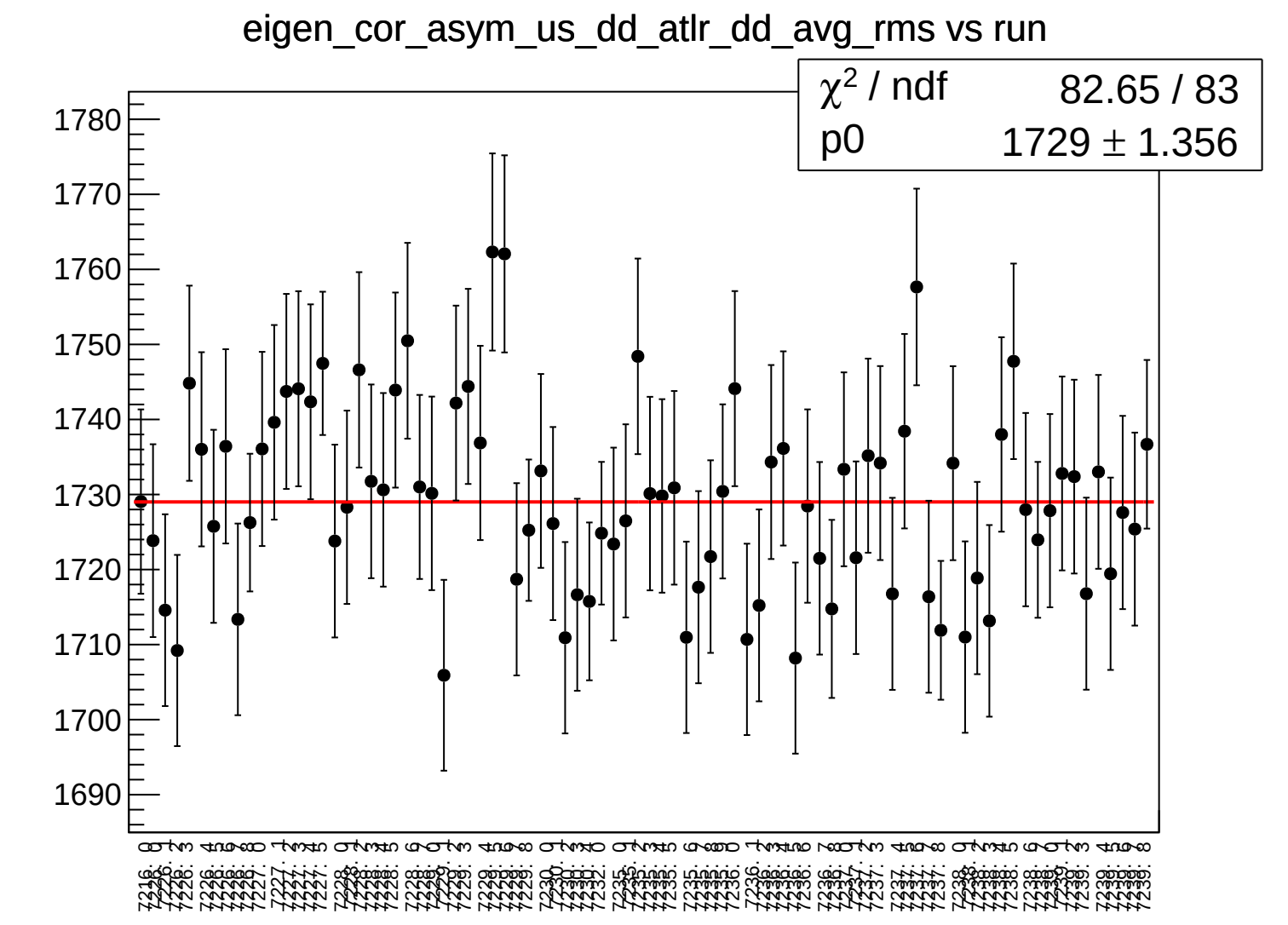

cor_asym_us_dd_atlr_dd_avg_rms vs run
χ^2 / ndf 82.65 / 83
p0 1729 ± 1.356
1780
1770
1760
1750
1740
1730
1720
1710
1700
1690

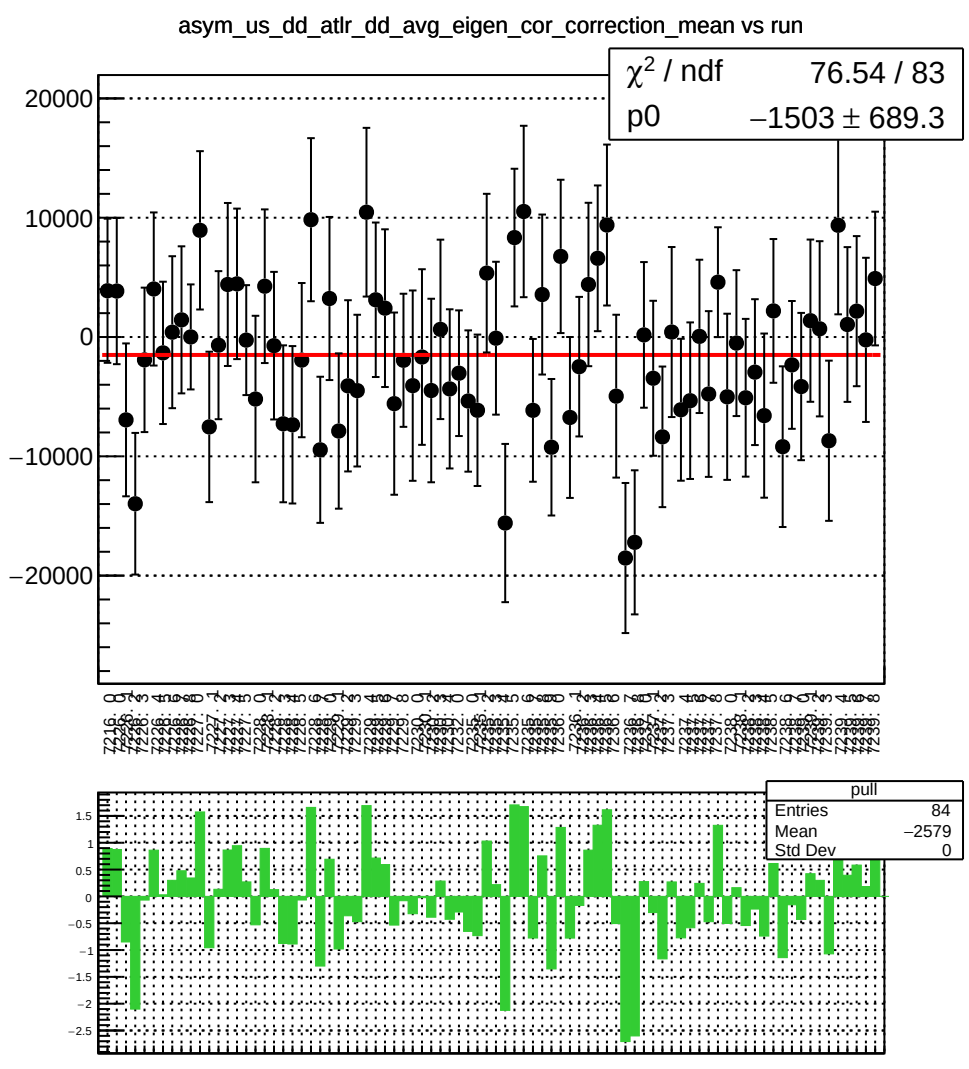

asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
χ² / ndf 76.54 / 83
p0 −1503 ± 689.3
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −2579
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

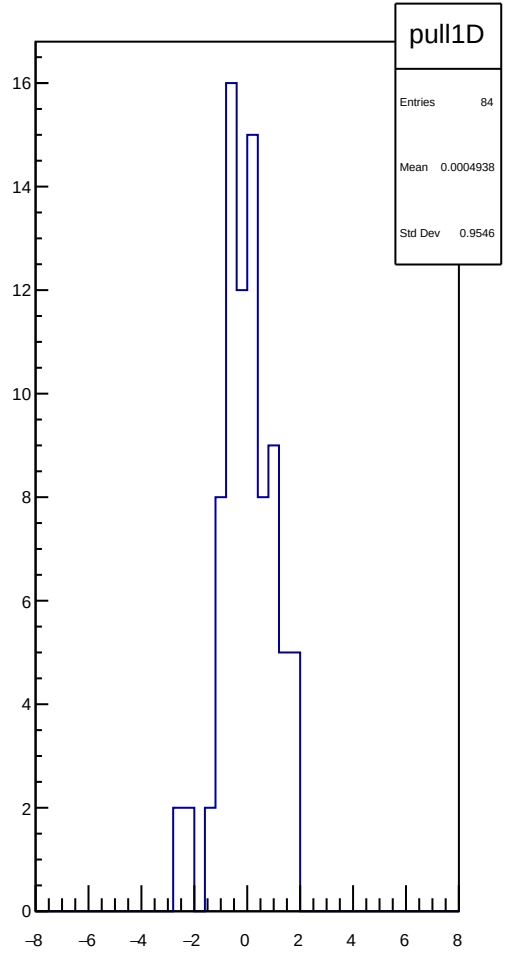

pull1D
Entries 84
Mean 0.0004938
Std Dev 0.9546
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

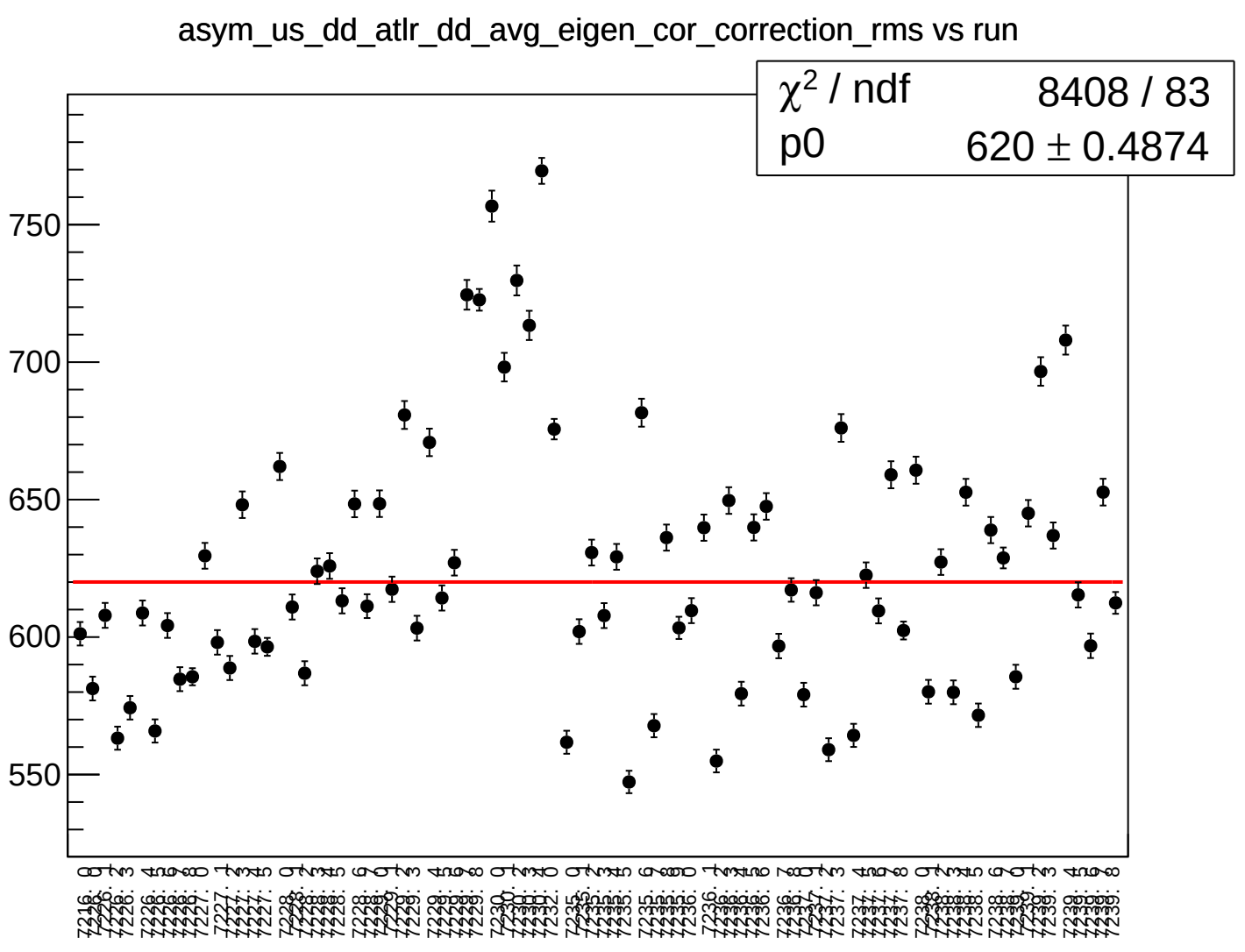

asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 8408 / 83
p0 620 ± 0.4874
750
700
650
600
550

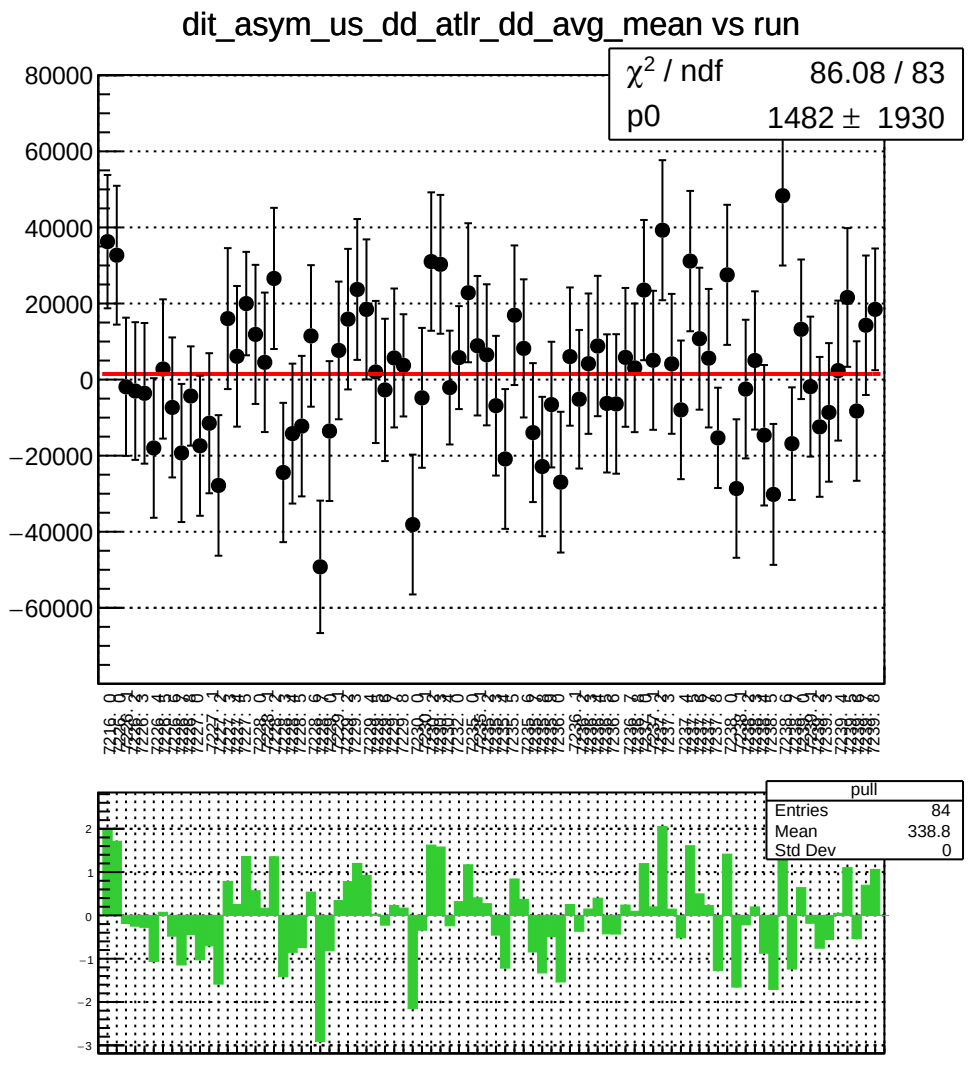

eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 84.06 / 83
p0 1884 ± 1917
pull
Entries 84
Mean 422.3
Std Dev 0
pull1D
Entries 84
Mean 0.003563
Std Dev 1

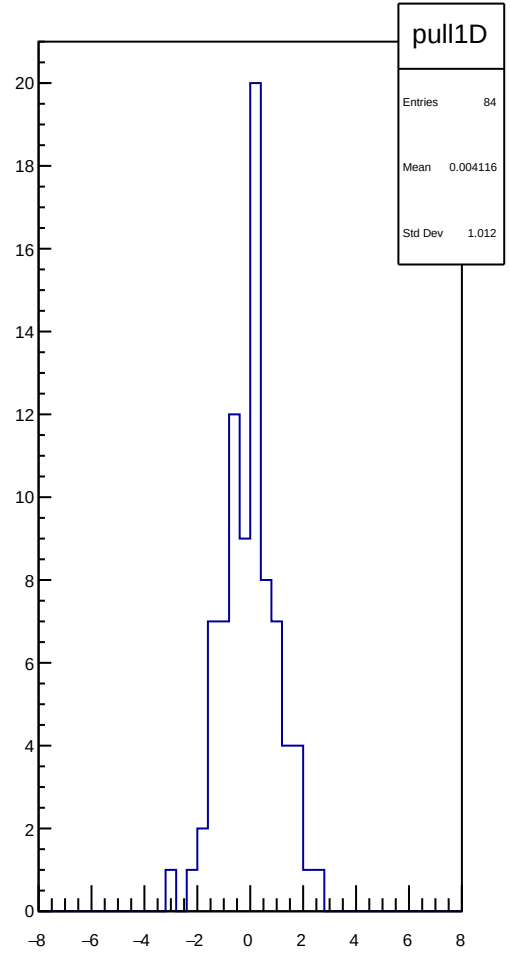

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 82.65 / 83
p0 1729 ± 1.356
1780
1770
1760
1750
1740
1730
1720
1710
1700
1690

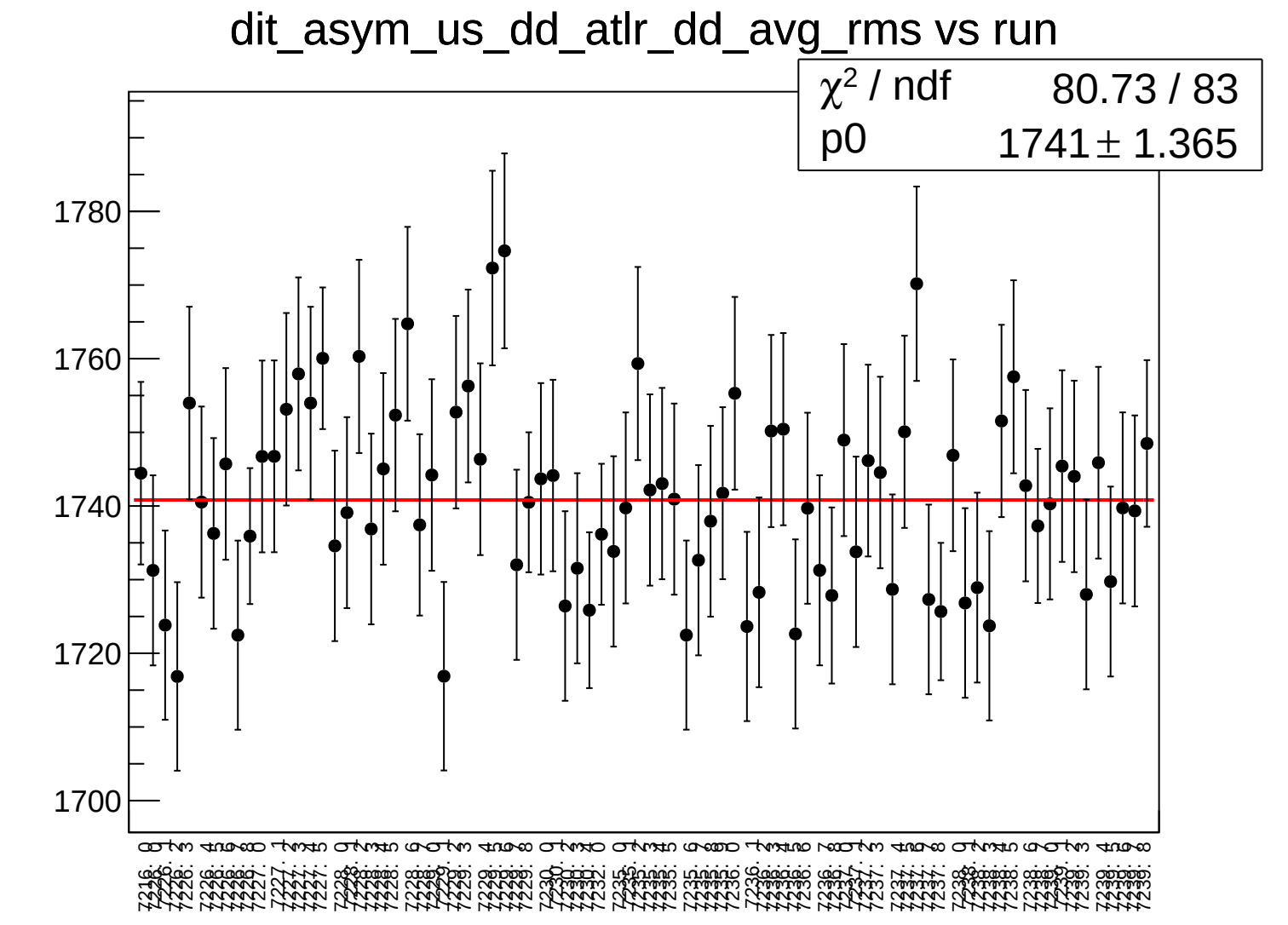

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 76.54 / 83
p0 −1503 ± 689.3
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −2579
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

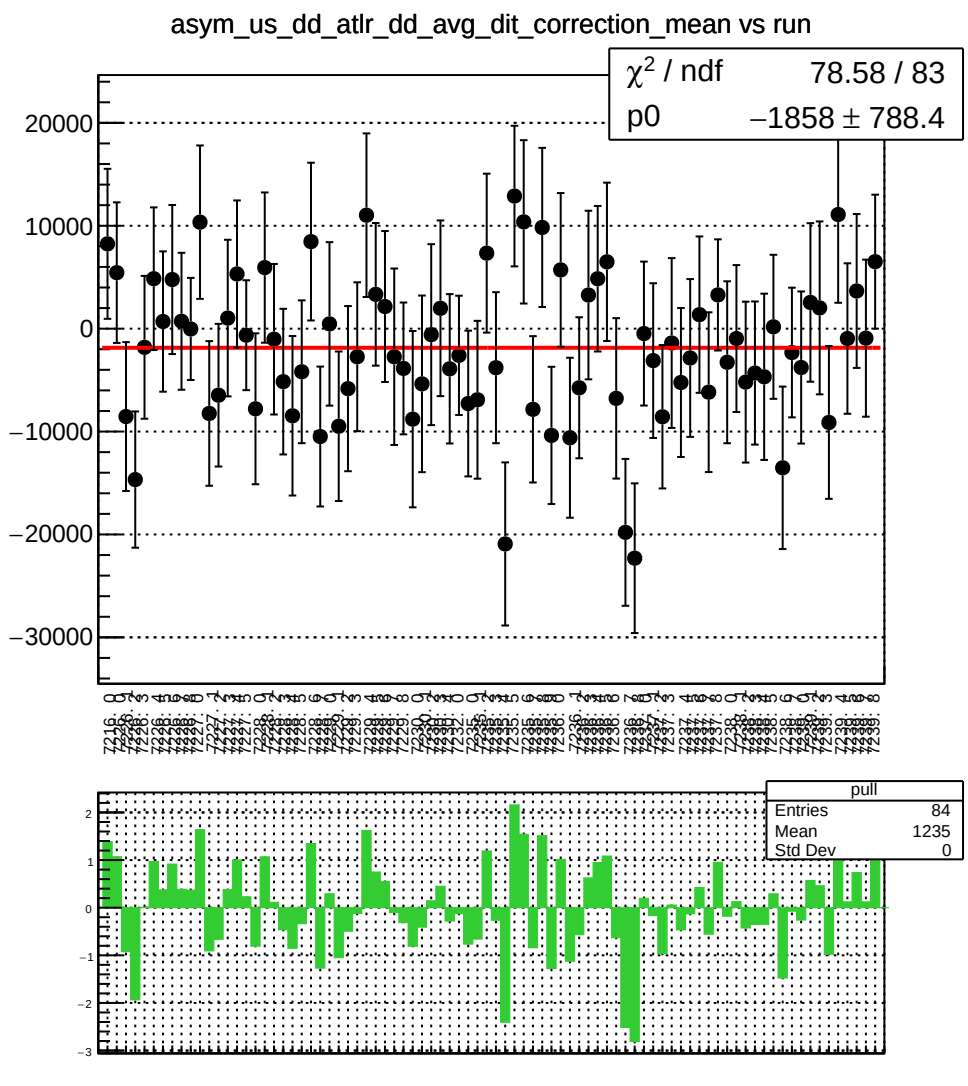

pull1D
Entries 84
Mean 0.0004938
Std Dev 0.9546
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

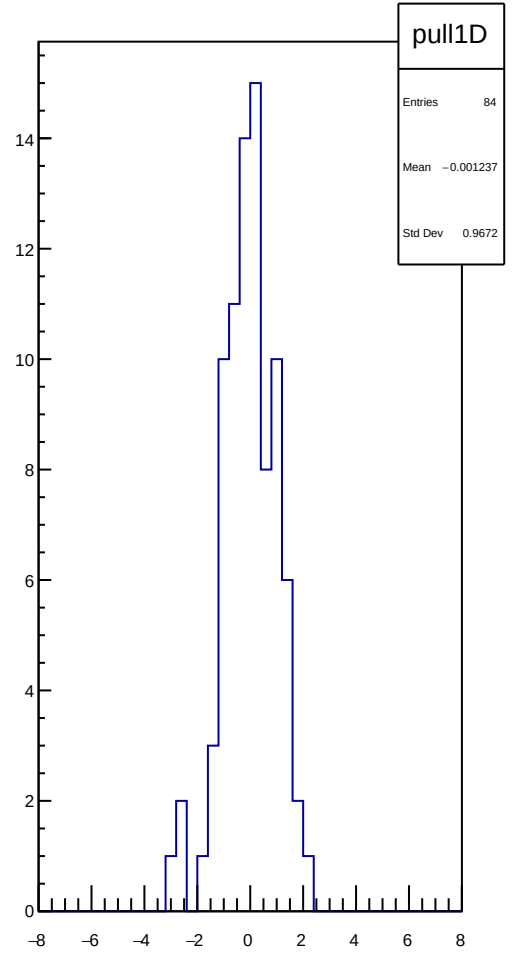

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 8408 / 83
p0 620 ± 0.4874
750
700
650
600
550

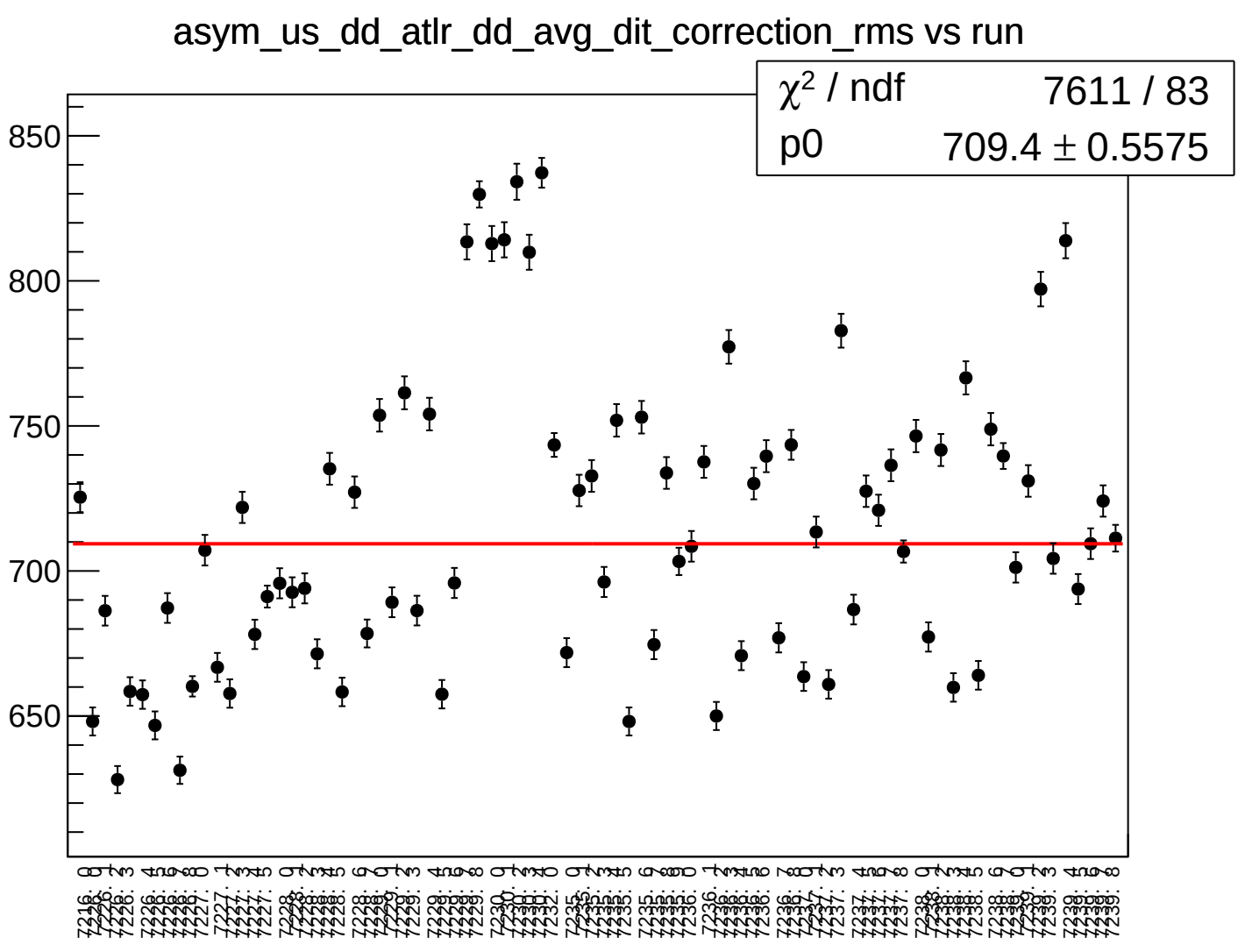

dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 86.08 / 83
p0 1482 ± 1930
pull
Entries 84
Mean 338.8
Std Dev 0

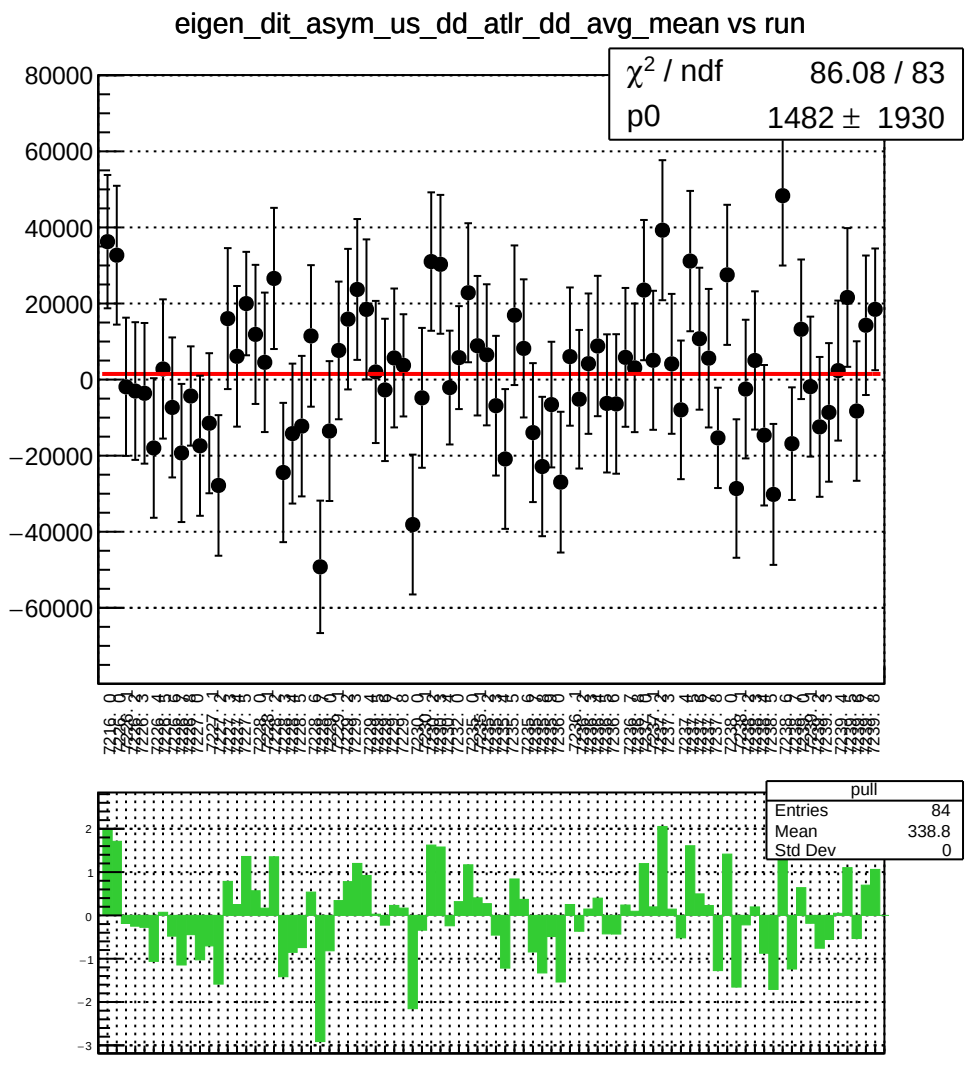

pull1D
Entries 84
Mean 0.004116
Std Dev 1.012

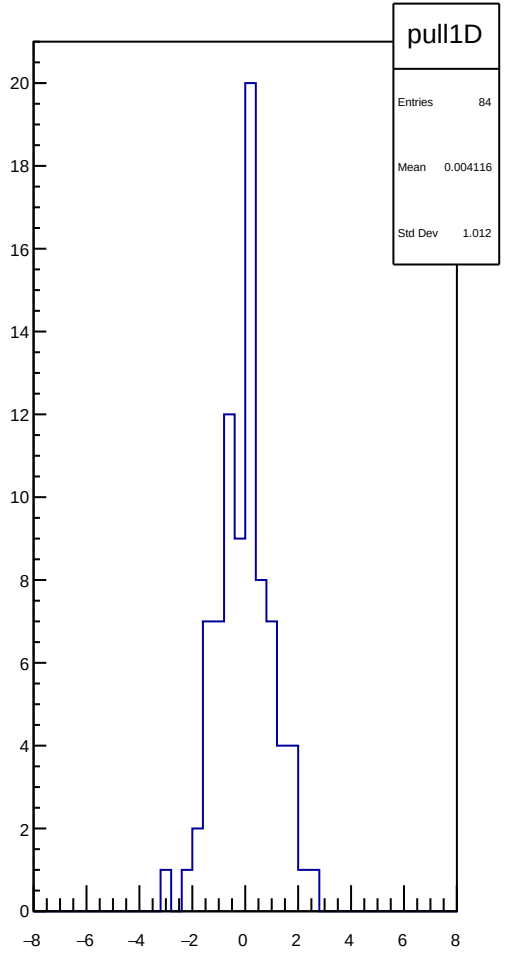

dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 80.73 / 83
p0 1741 ± 1.365
1780
1760
1740
1720
1700

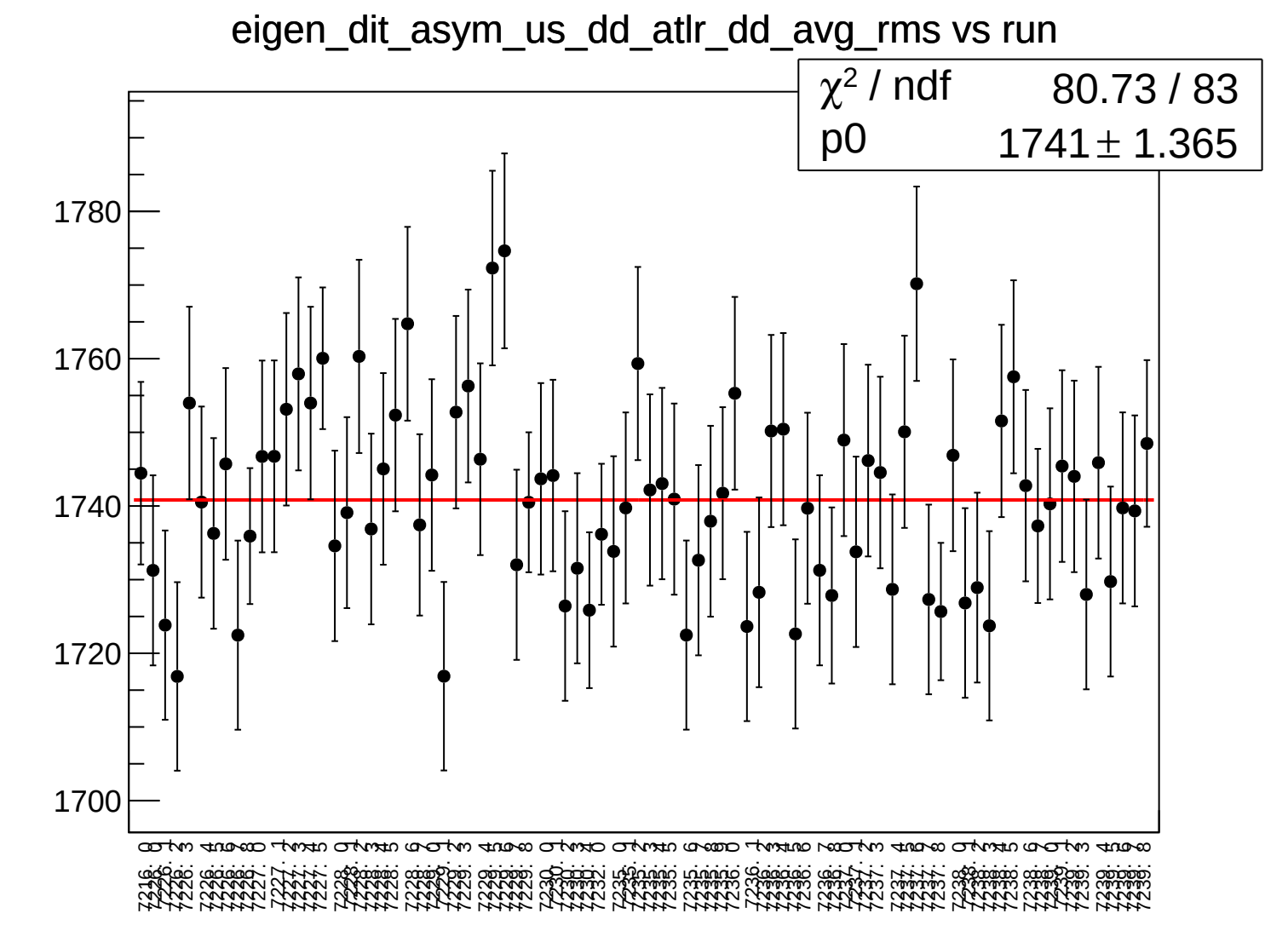

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
χ² / ndf 78.58 / 83
p0 −1858 ± 788.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean 1235
Std Dev 0
2
1
0
−1
−2
−3

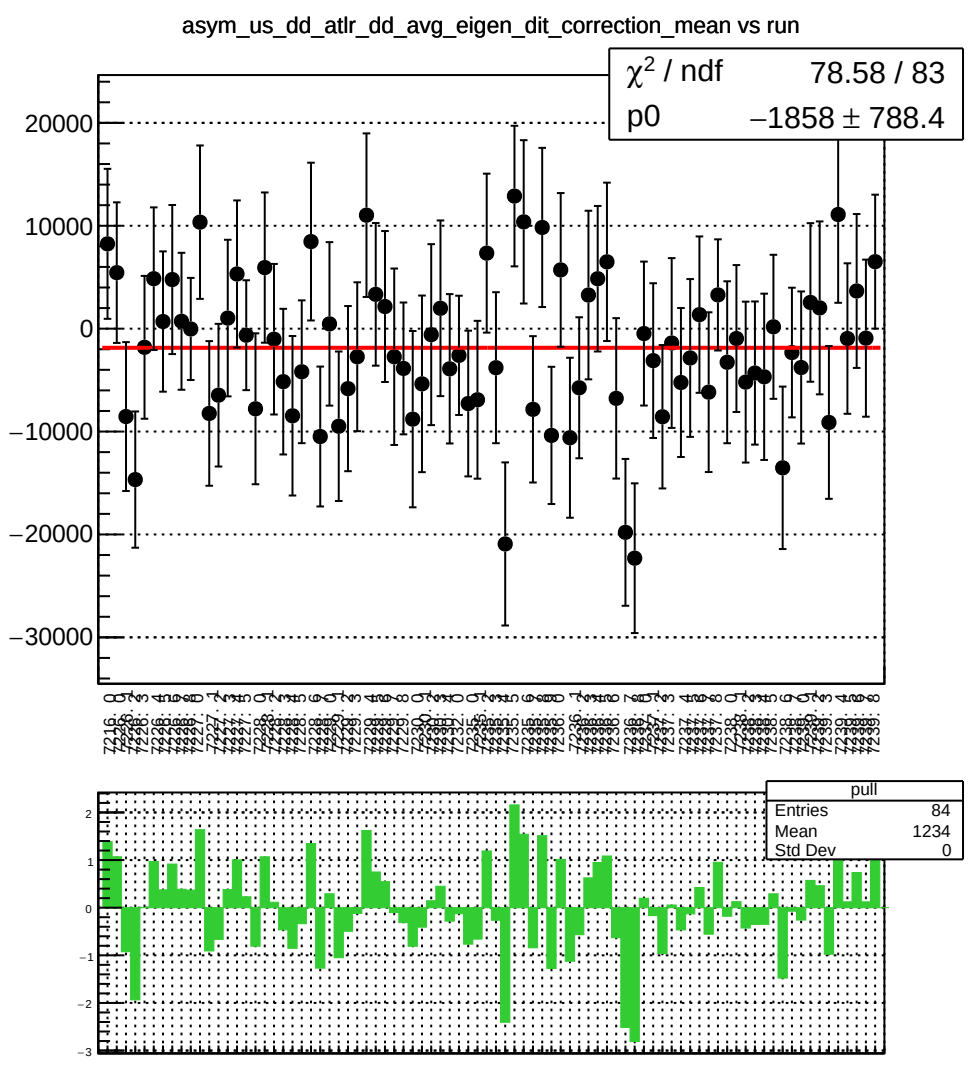

pull1D
Entries 84
Mean −0.001237
Std Dev 0.9672
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

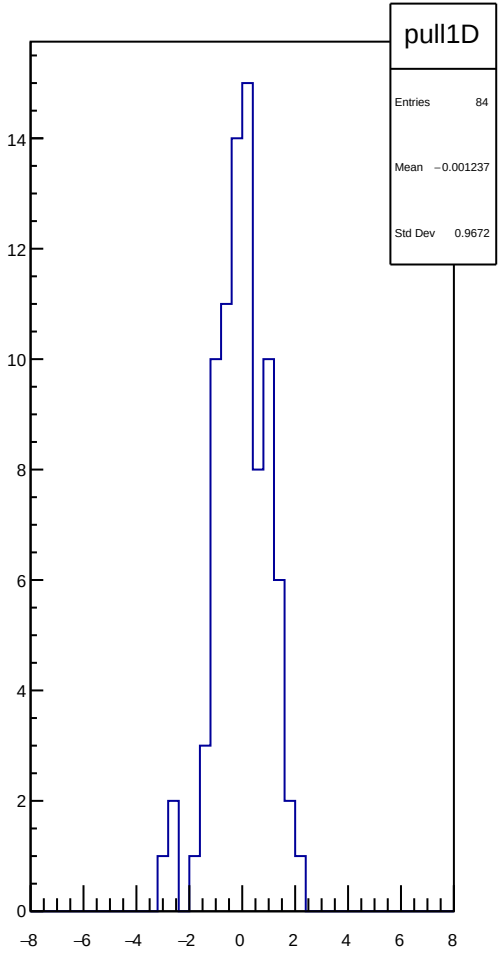

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ² / ndf 7611 / 83
p0 709.4 ± 0.5575
850
800
750
700
650

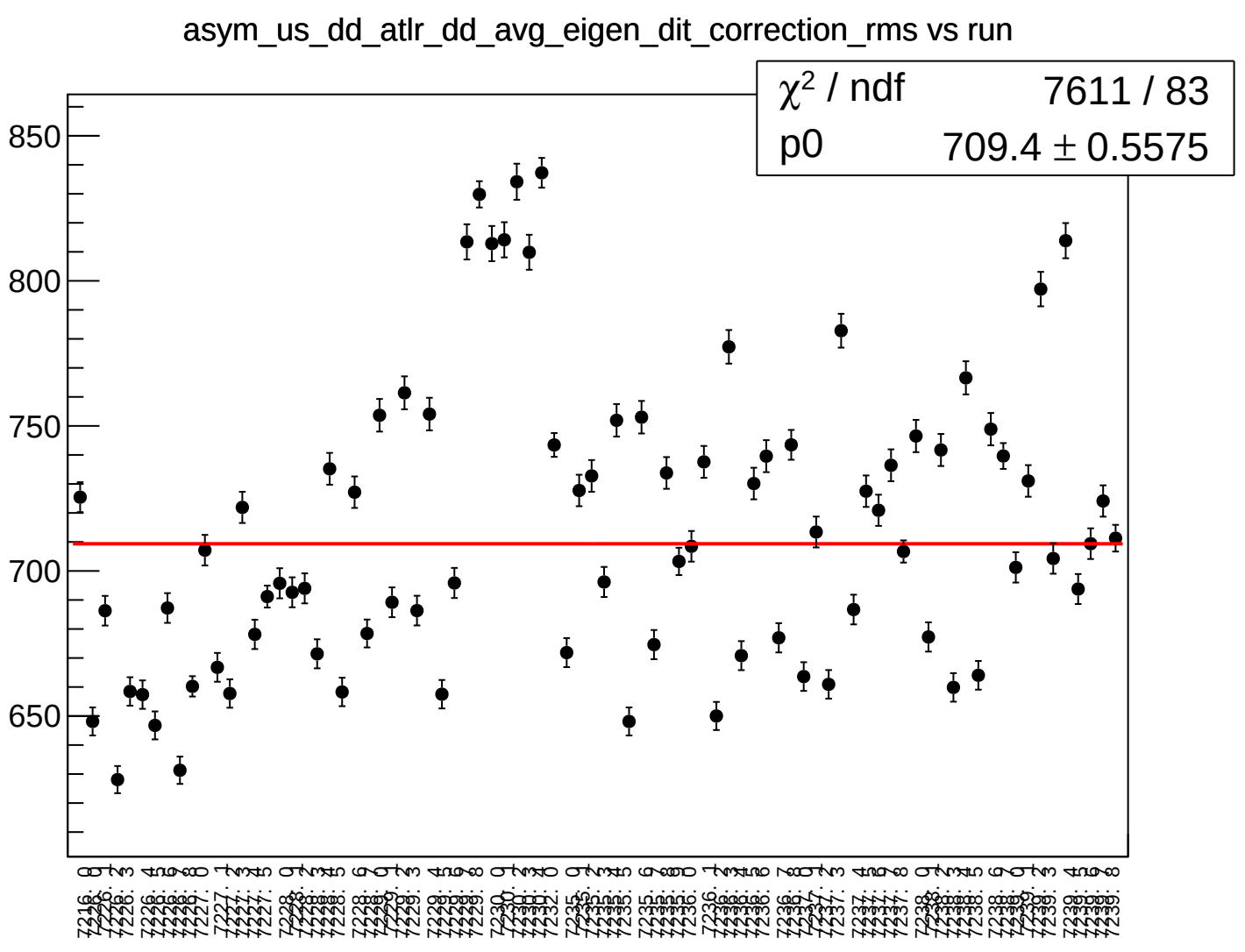

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 86.08 / 83
p0 1482 ± 1930
pull
Entries 84
Mean 338.8
Std Dev 0

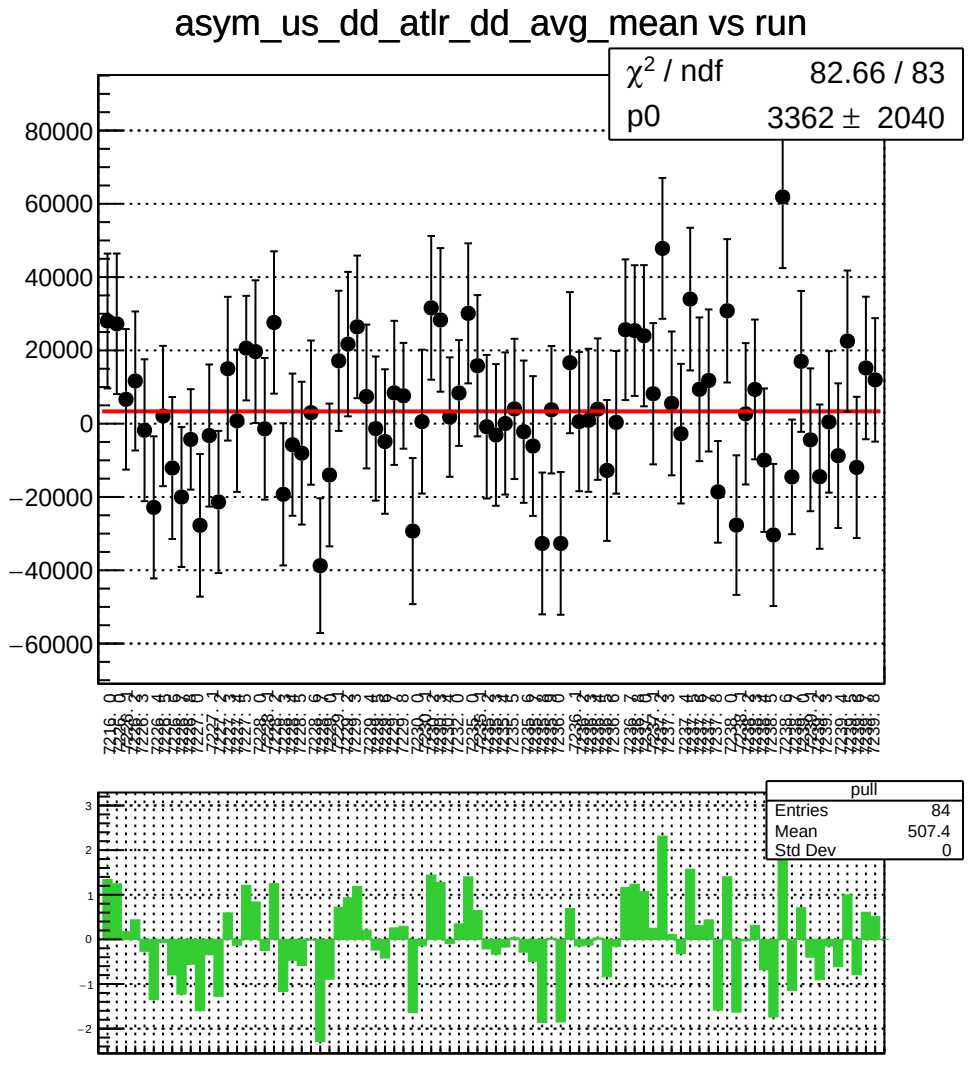

pull1D
Entries 84
Mean 0.004116
Std Dev 1.012

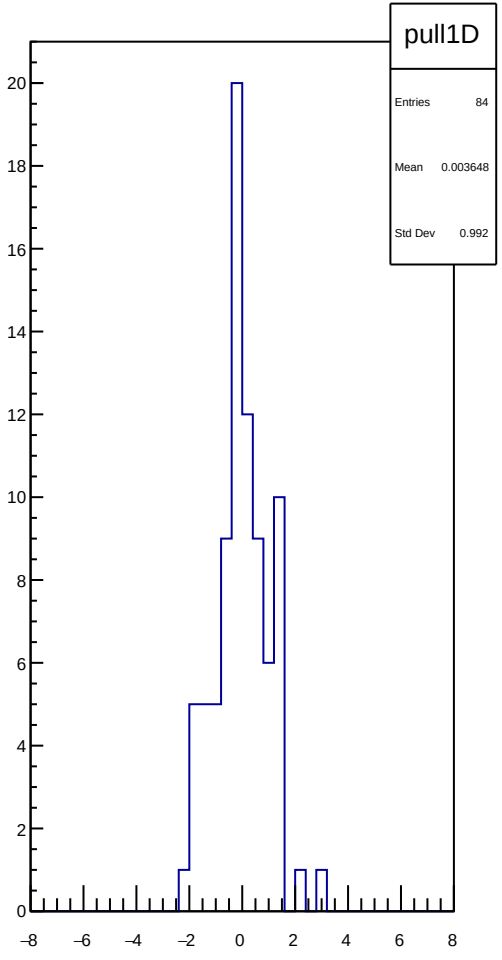

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ^2 / ndf 80.73 / 83
p0 1741 ± 1.365
1780
1760
1740
1720
1700

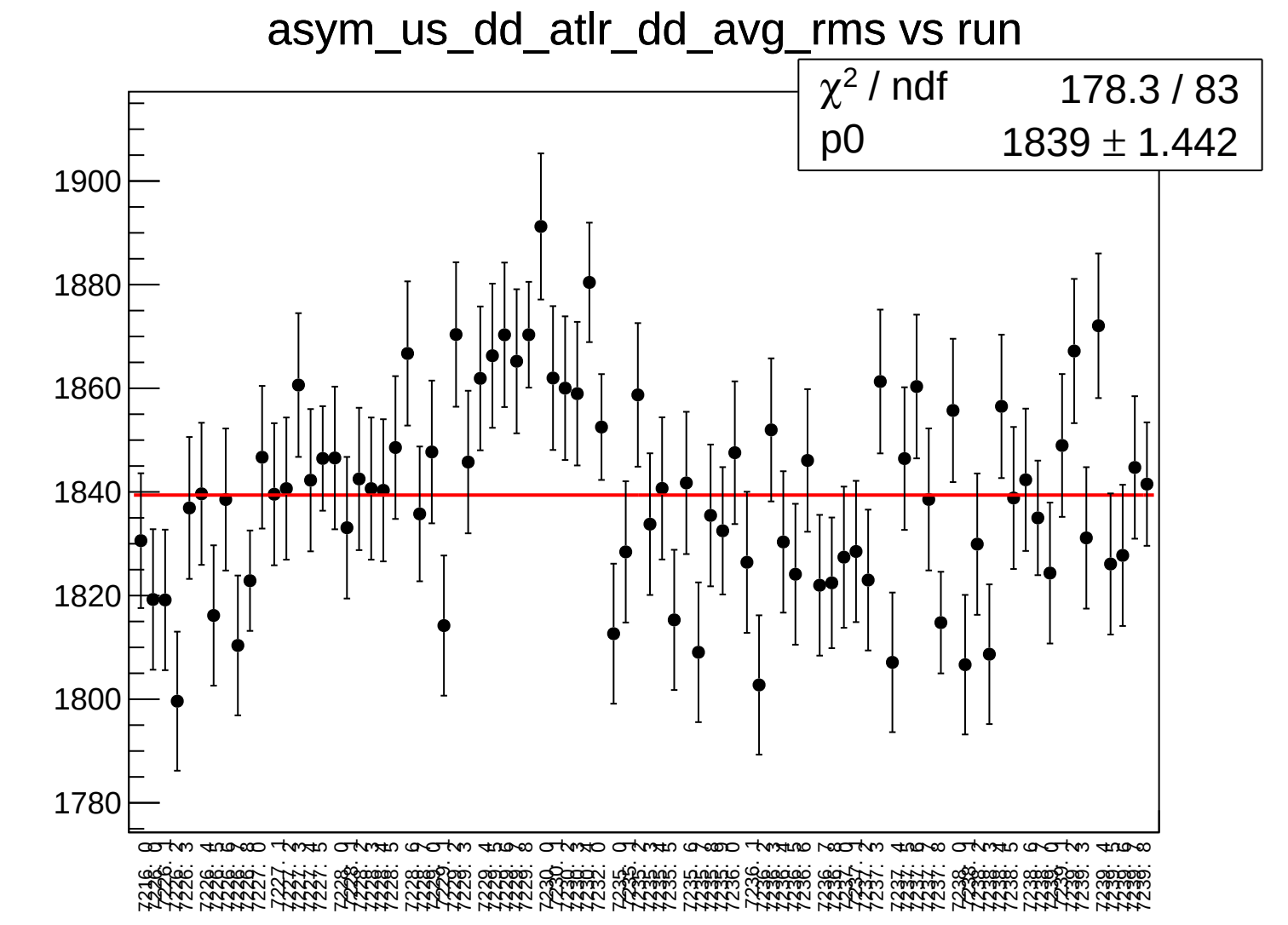

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 78.58 / 83
p0 −1858 ± 788.4
pull
Entries 84
Mean 1234
Std Dev 0

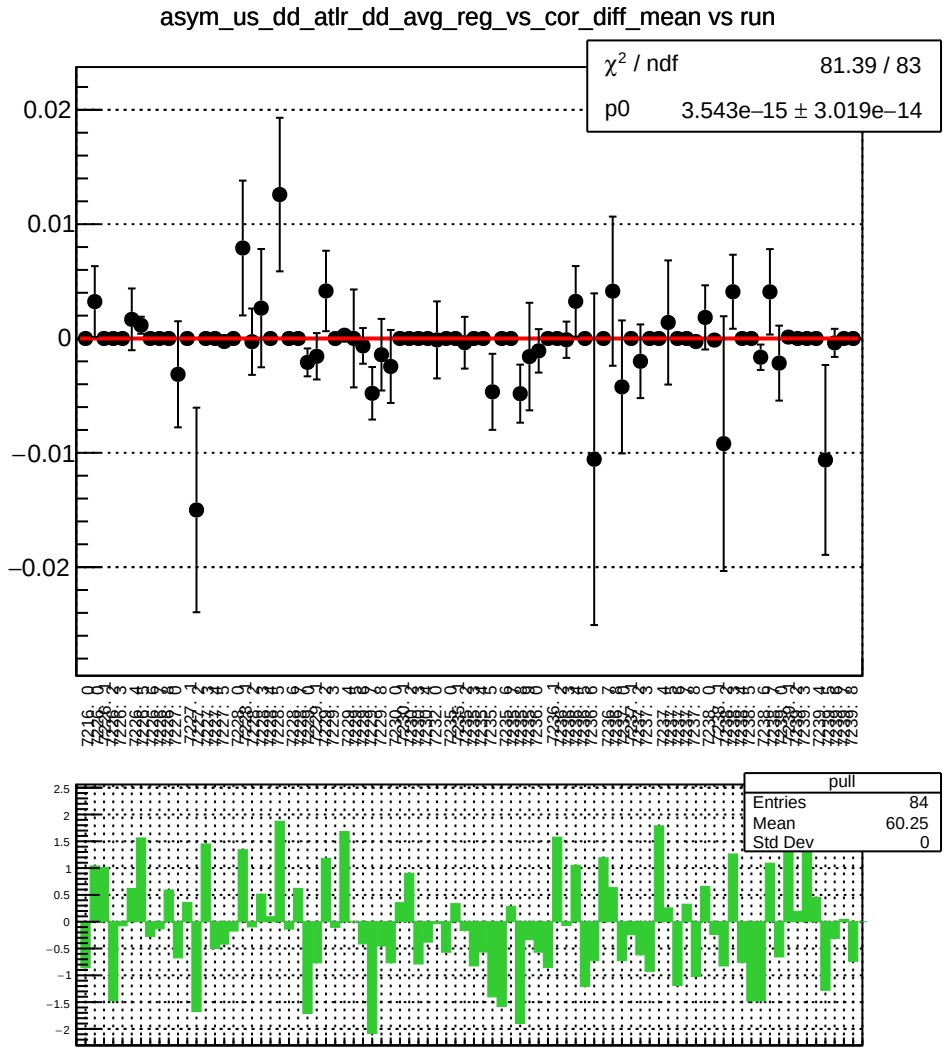

pull1D
Entries 84
Mean −0.001237
Std Dev 0.9672

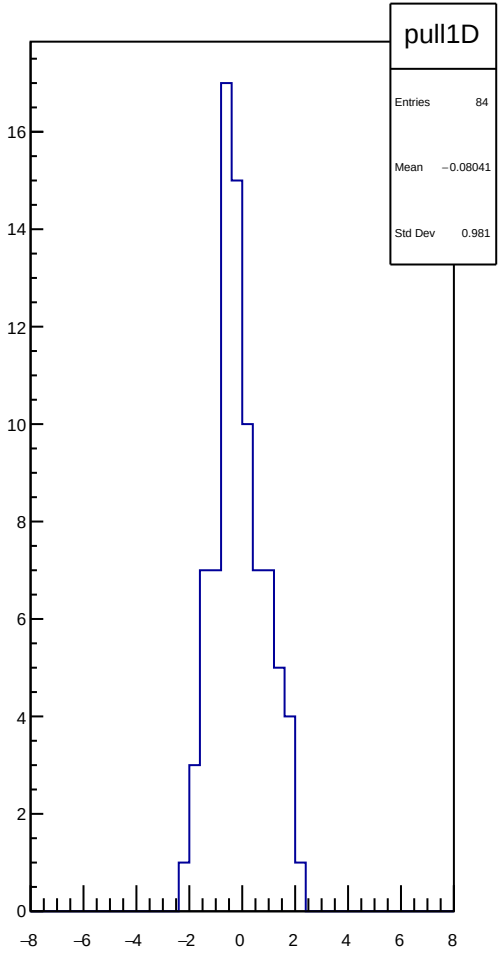

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 7611 / 83
p0 709.4 ± 0.5575
850
800
750
700
650

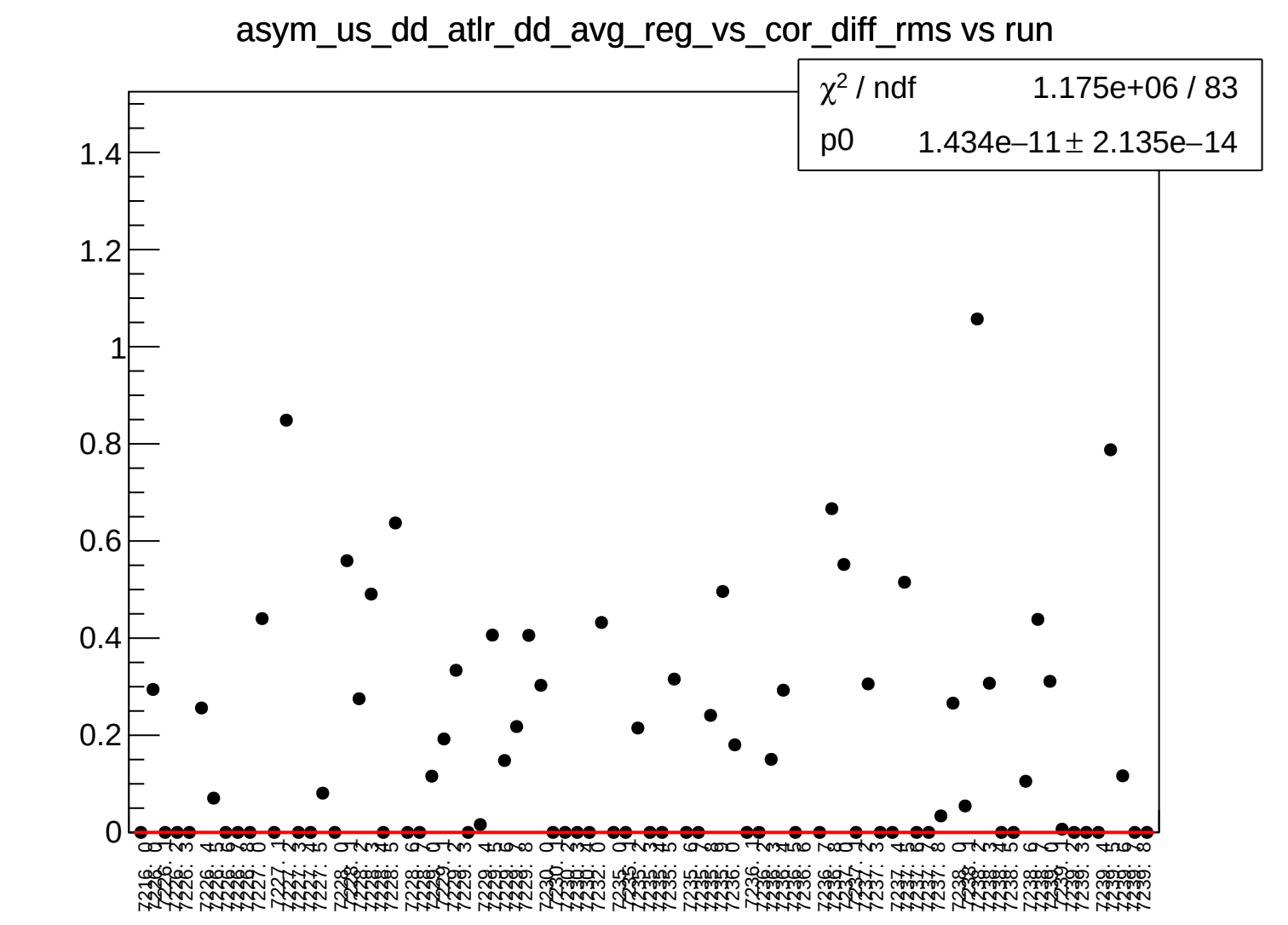

asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 82.66 / 83
p0 3362 ± 2040
pull
Entries 84
Mean 507.4
Std Dev 0

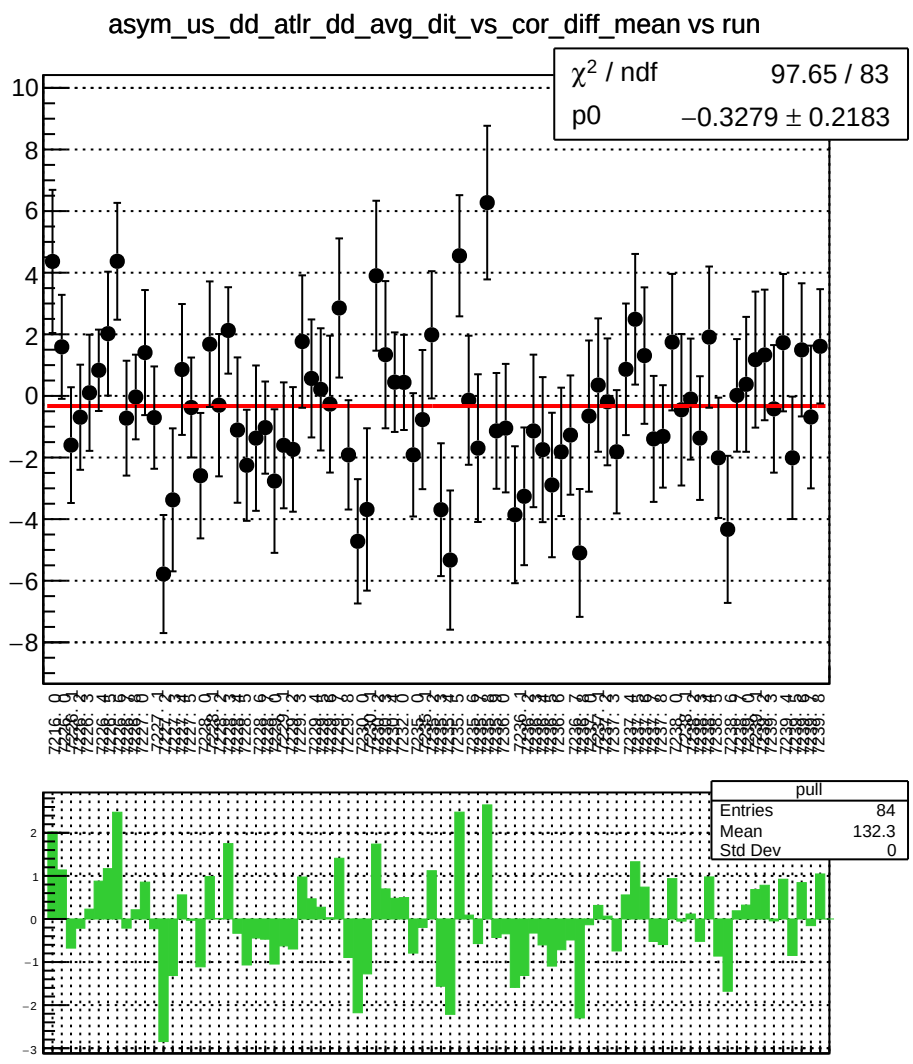

pull1D
Entries 84
Mean 0.003648
Std Dev 0.992

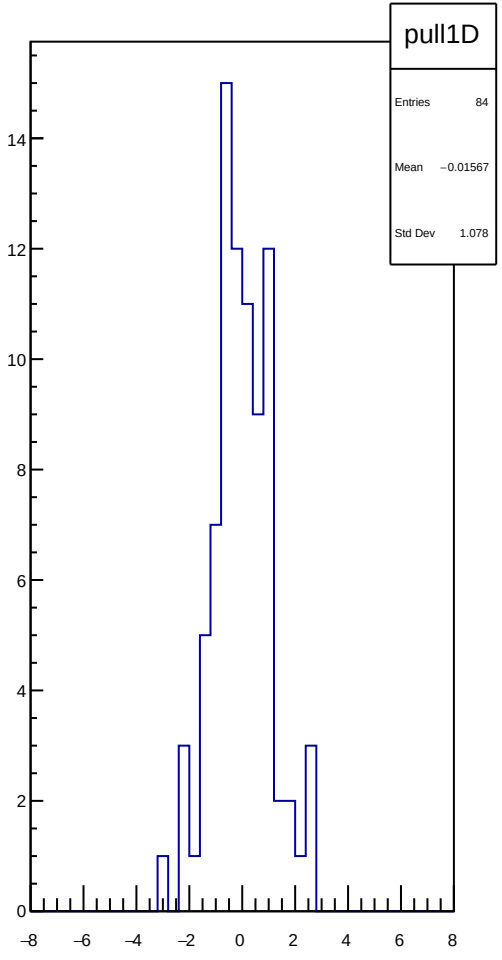

asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 178.3 / 83
p0 1839 ± 1.442
1900
1880
1860
1840
1820
1800
1780

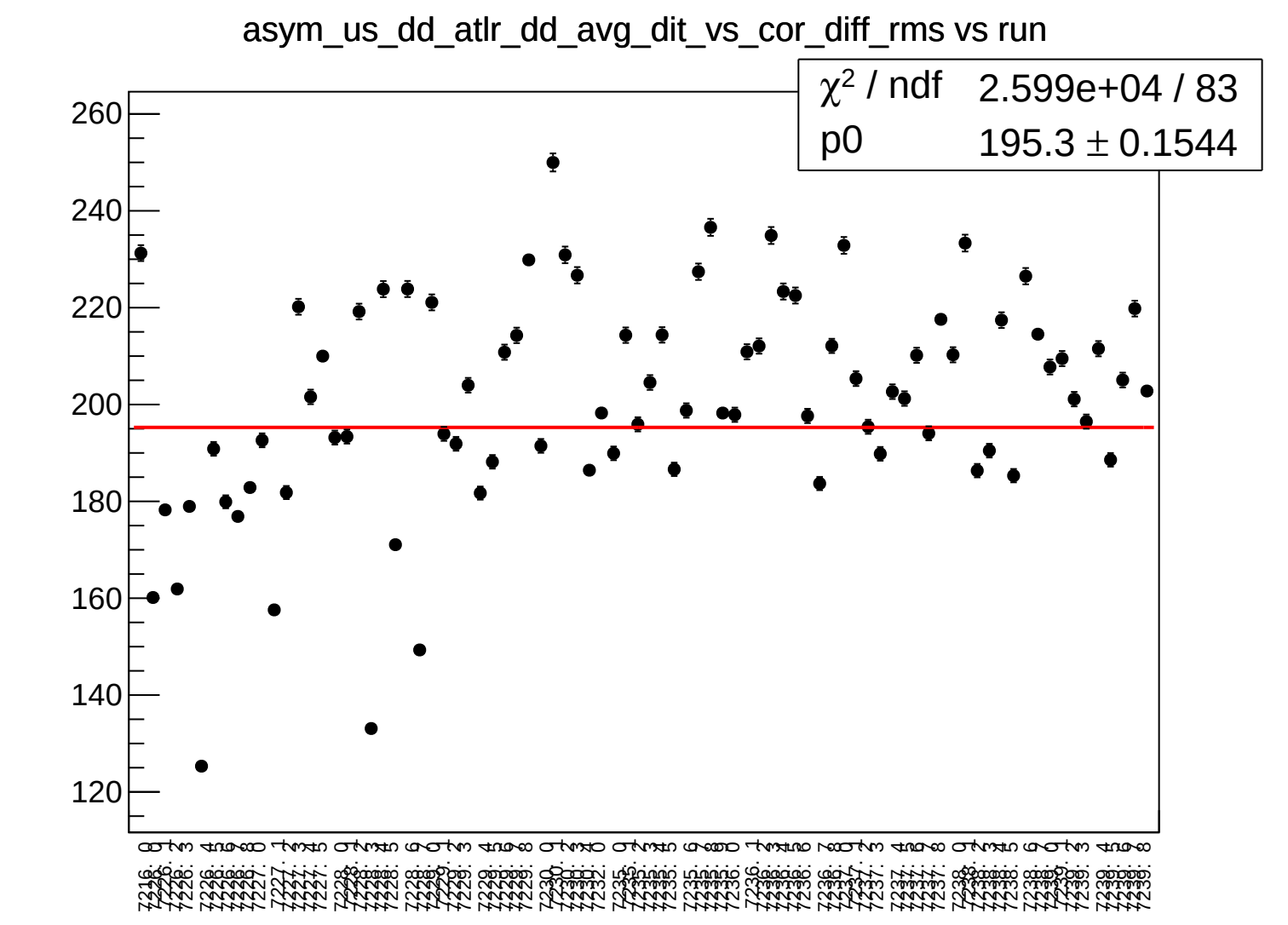

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 81.39 / 83
p0 3.543e−15 ± 3.019e−14
0.02
0.01
0
−0.01
−0.02
pull
Entries 84
Mean 60.25
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

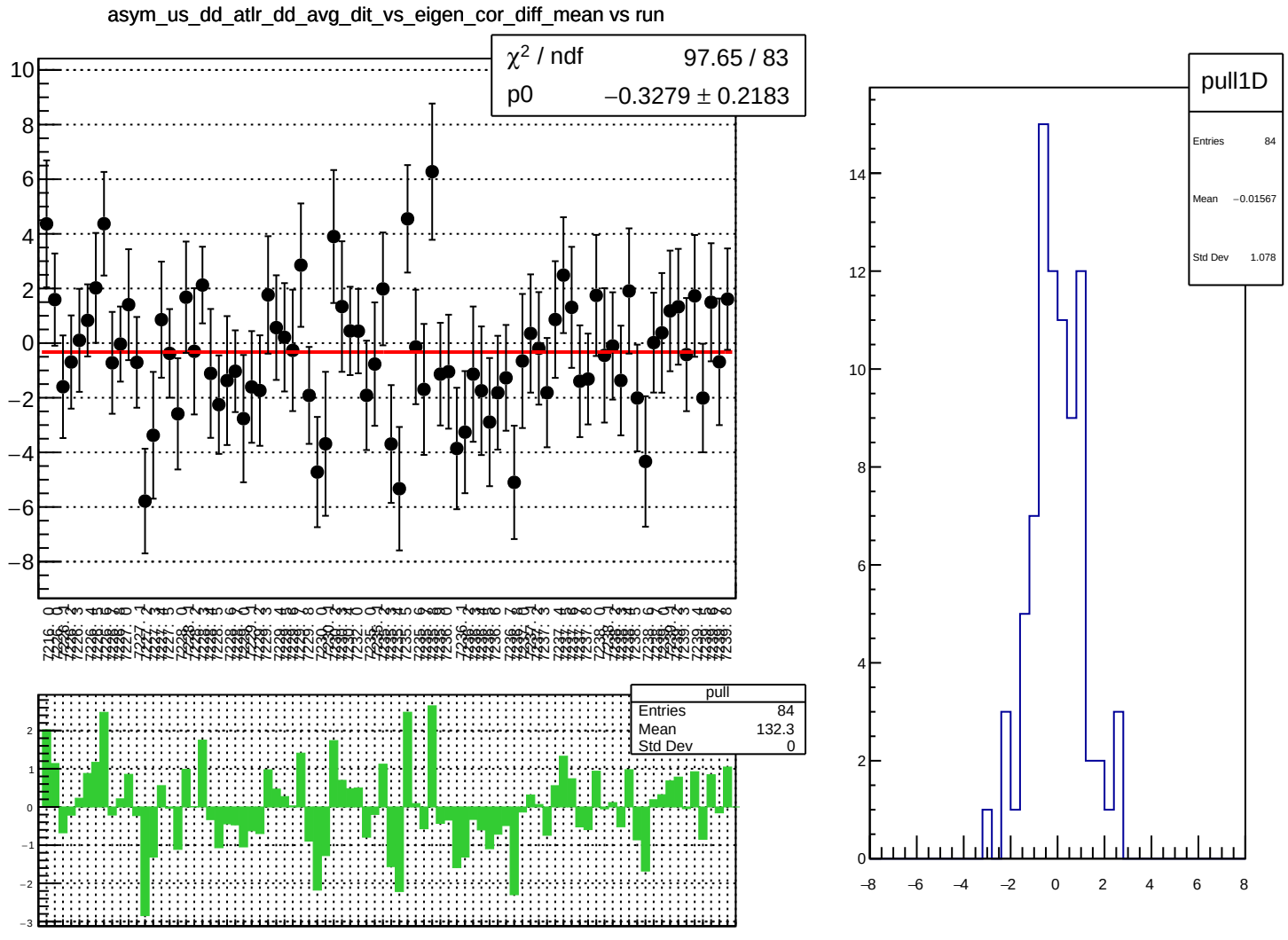

pull1D
Entries 84
Mean −0.08041
Std Dev 0.981
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

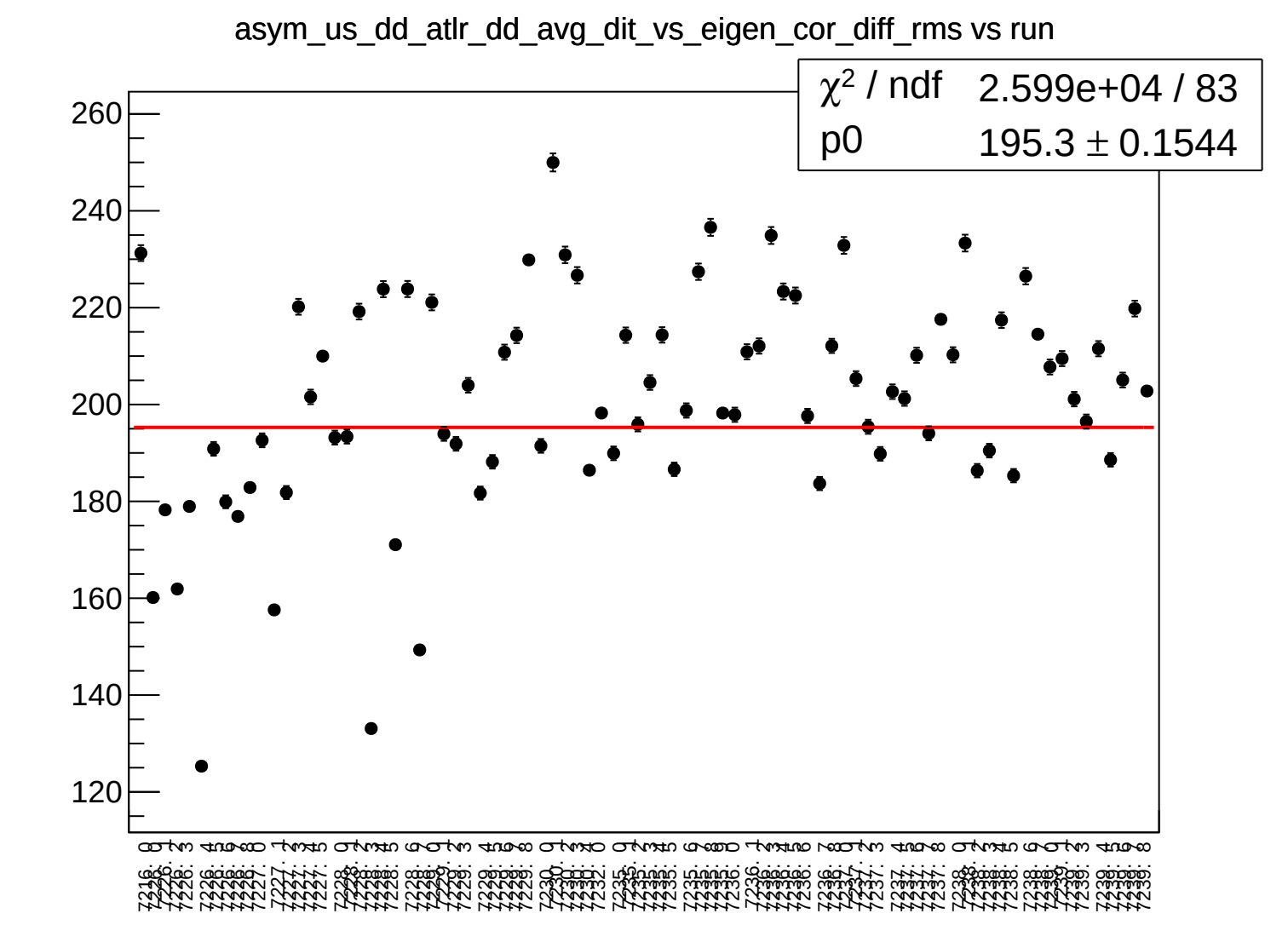

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ^2 / ndf 1.175e+06 / 83
p0 1.434e−11 ± 2.135e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

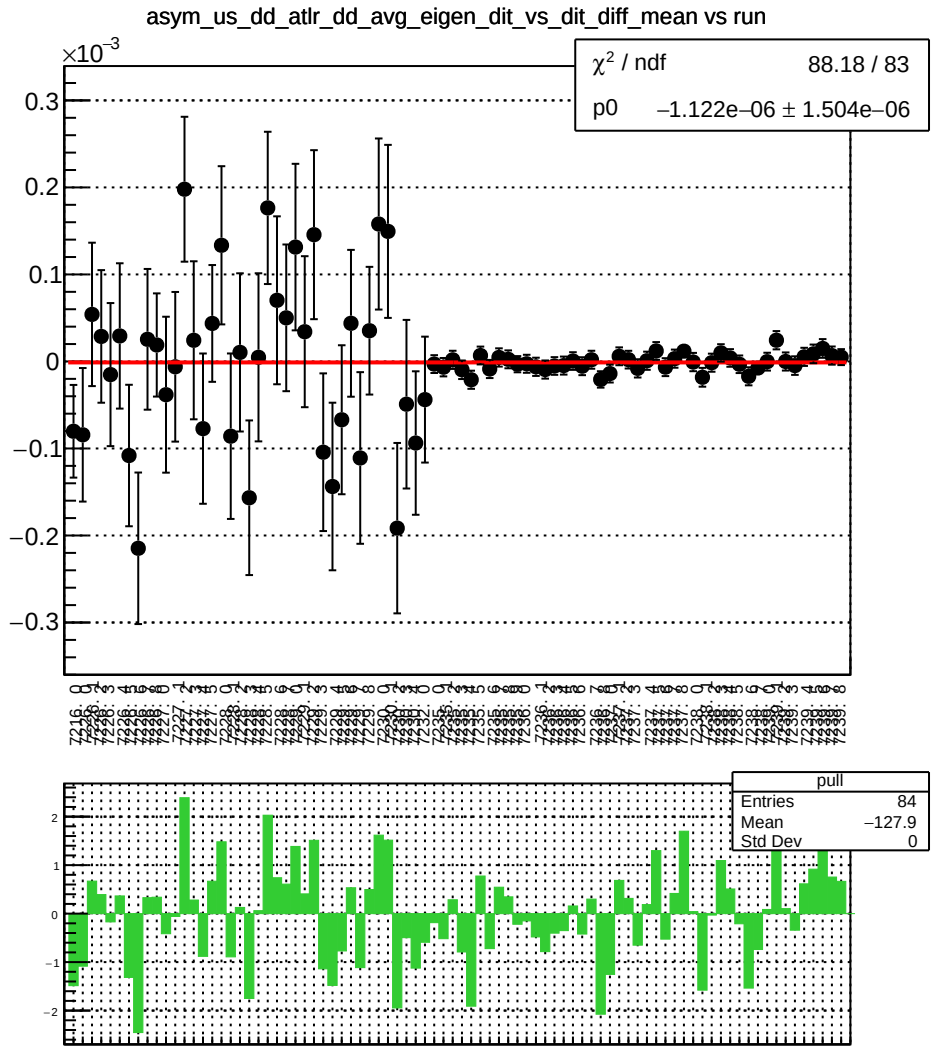

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 97.65 / 83
p0 −0.3279 ± 0.2183
pull
Entries 84
Mean 132.3
Std Dev 0

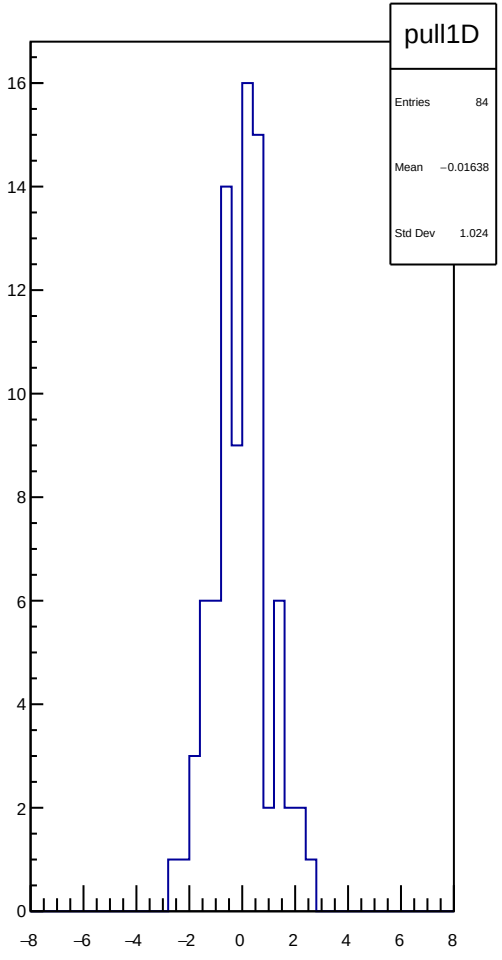

pull1D
Entries 84
Mean −0.01567
Std Dev 1.078

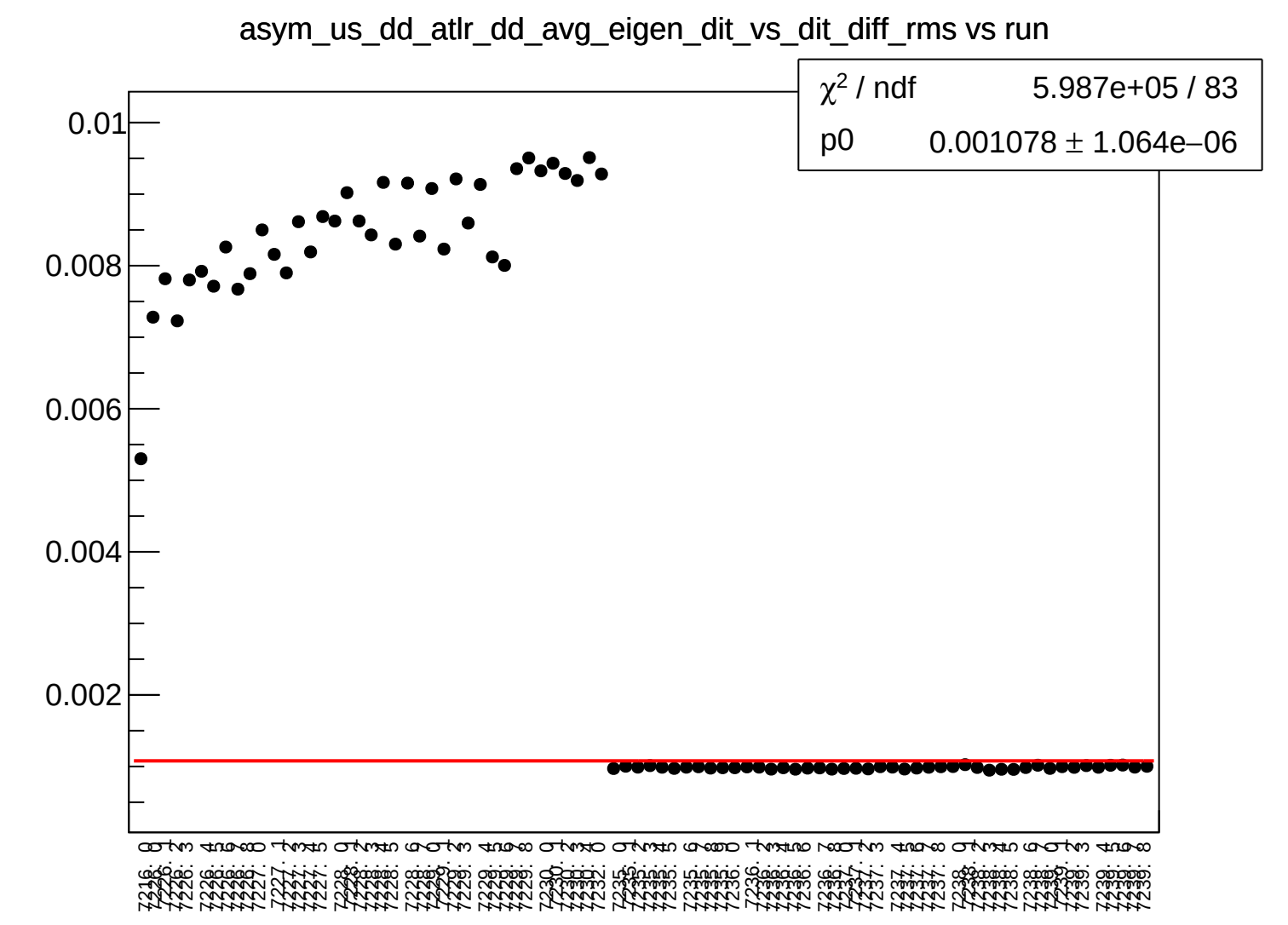

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.599e+04 / 83
p0 195.3 ± 0.1544
260
240
220
200
180
160
140
120

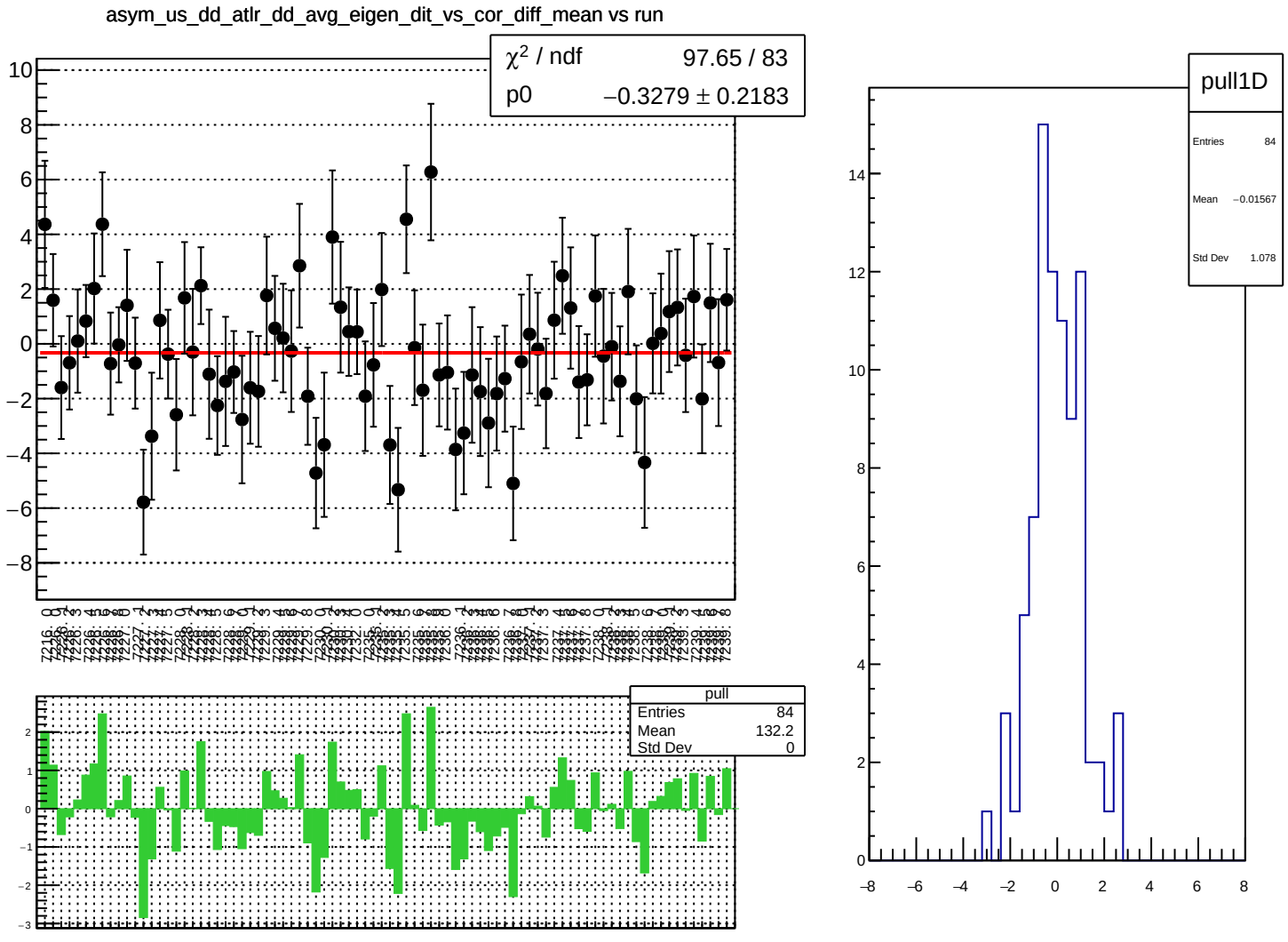

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.65 / 83
p0 −0.3279 ± 0.2183
pull
Entries 84
Mean 132.3
Std Dev 0
pull1D
Entries 84
Mean −0.01567
Std Dev 1.078

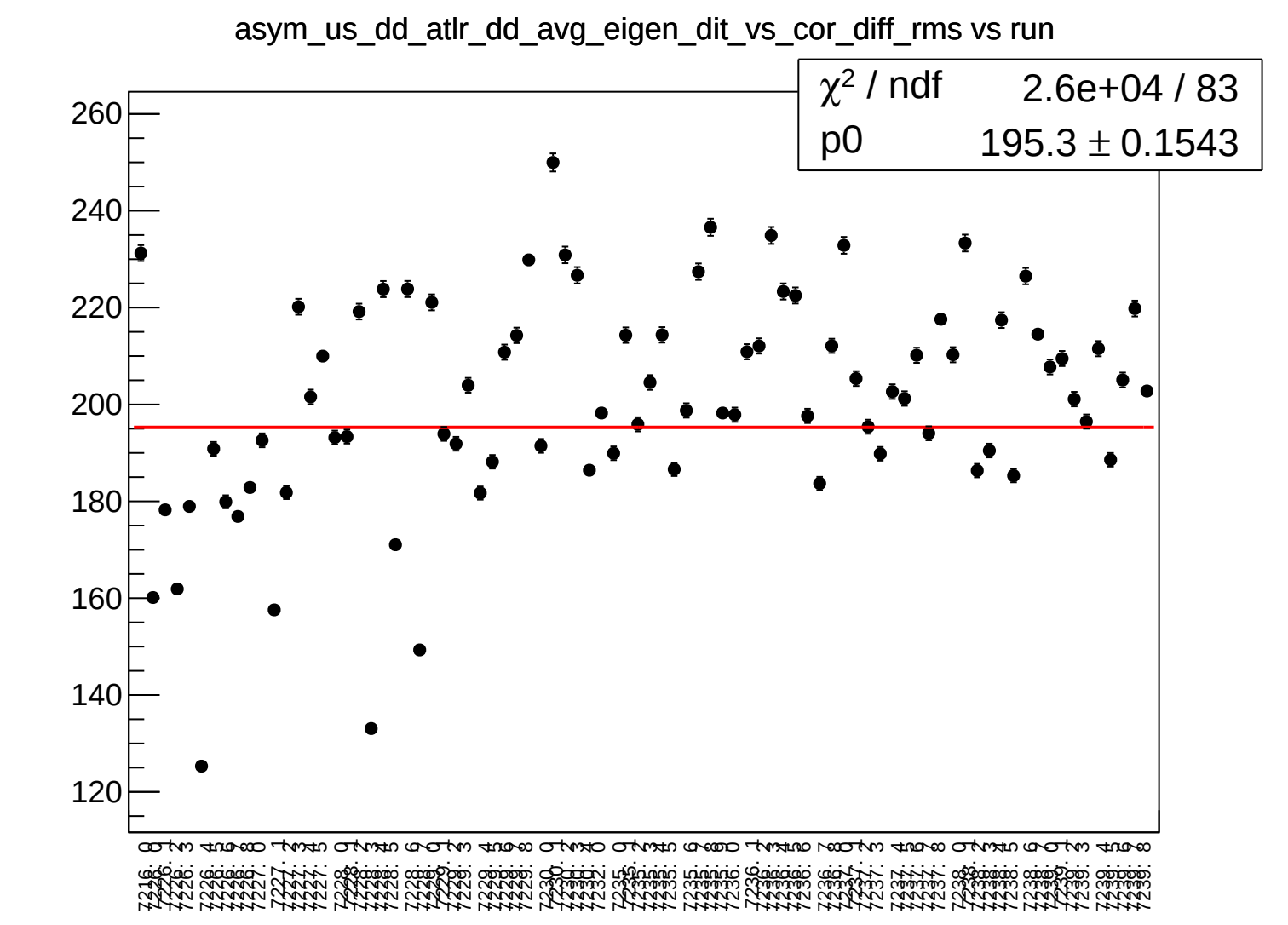

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.599e+04 / 83
p0 195.3 ± 0.1544
260
240
220
200
180
160
140
120

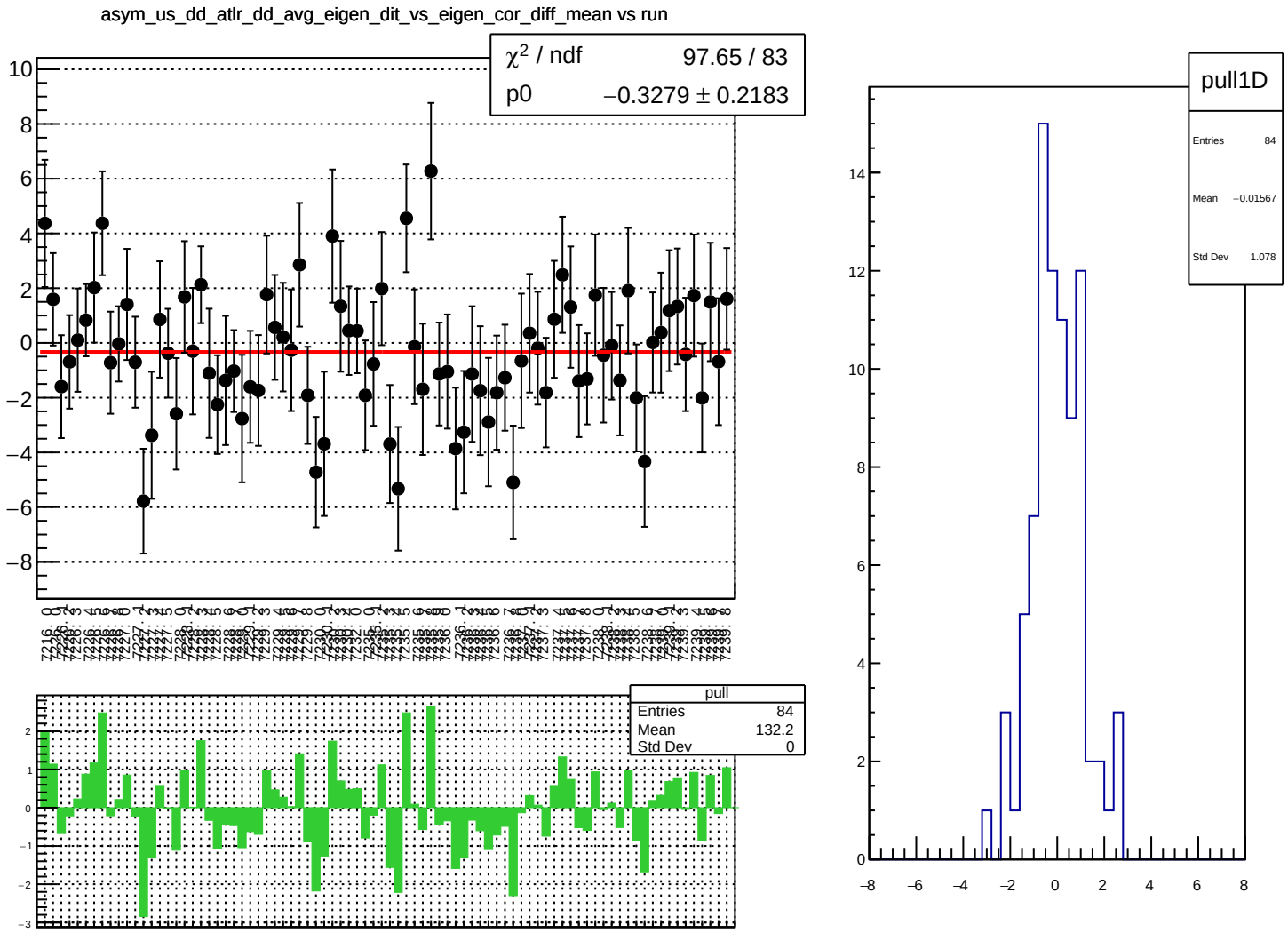

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.18 / 83
p0 −1.122e−06 ± 1.504e−06
pull
Entries 84
Mean −127.9
Std Dev 0

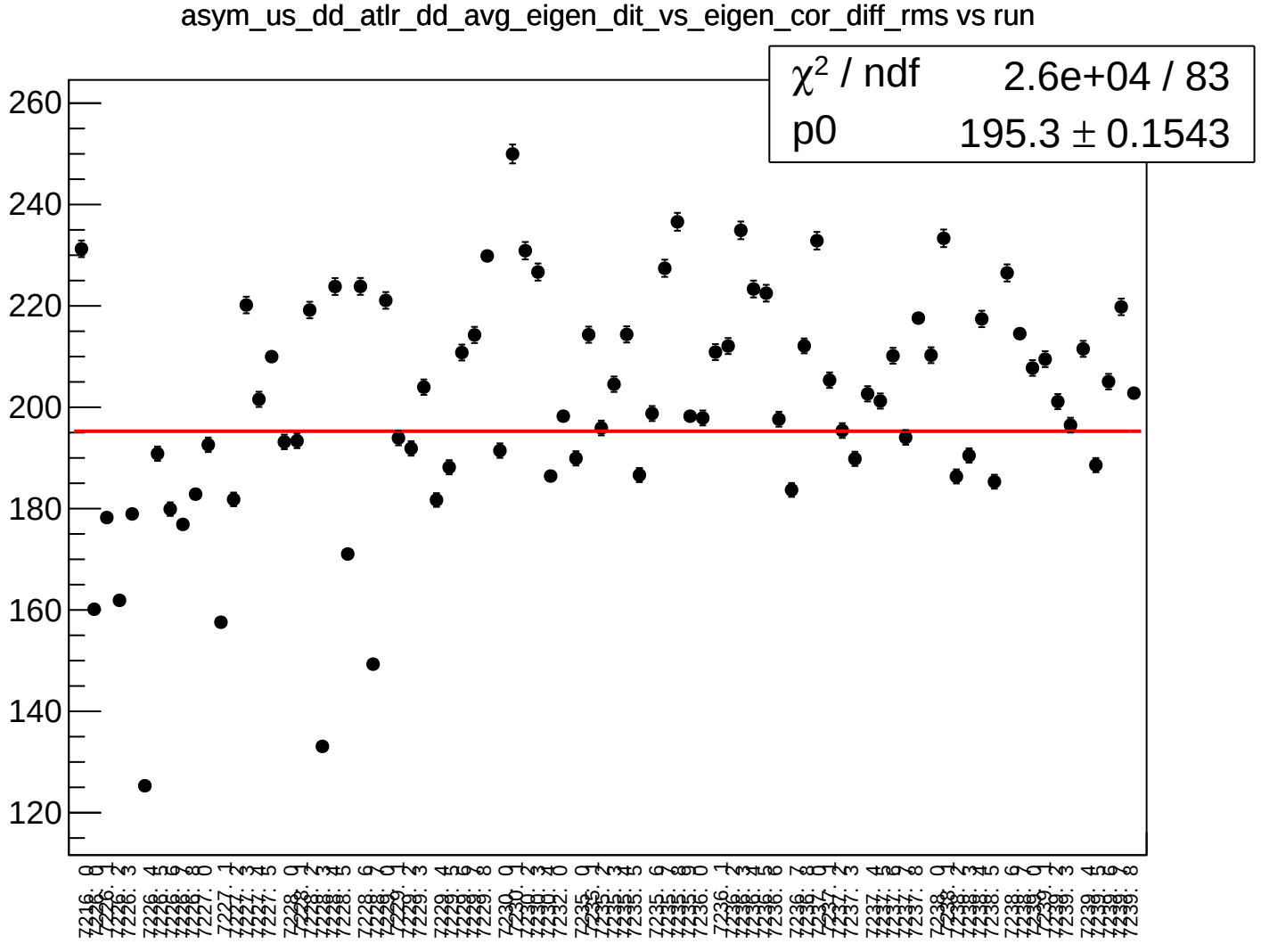

pull1D
Entries 84
Mean −0.01638
Std Dev 1.024

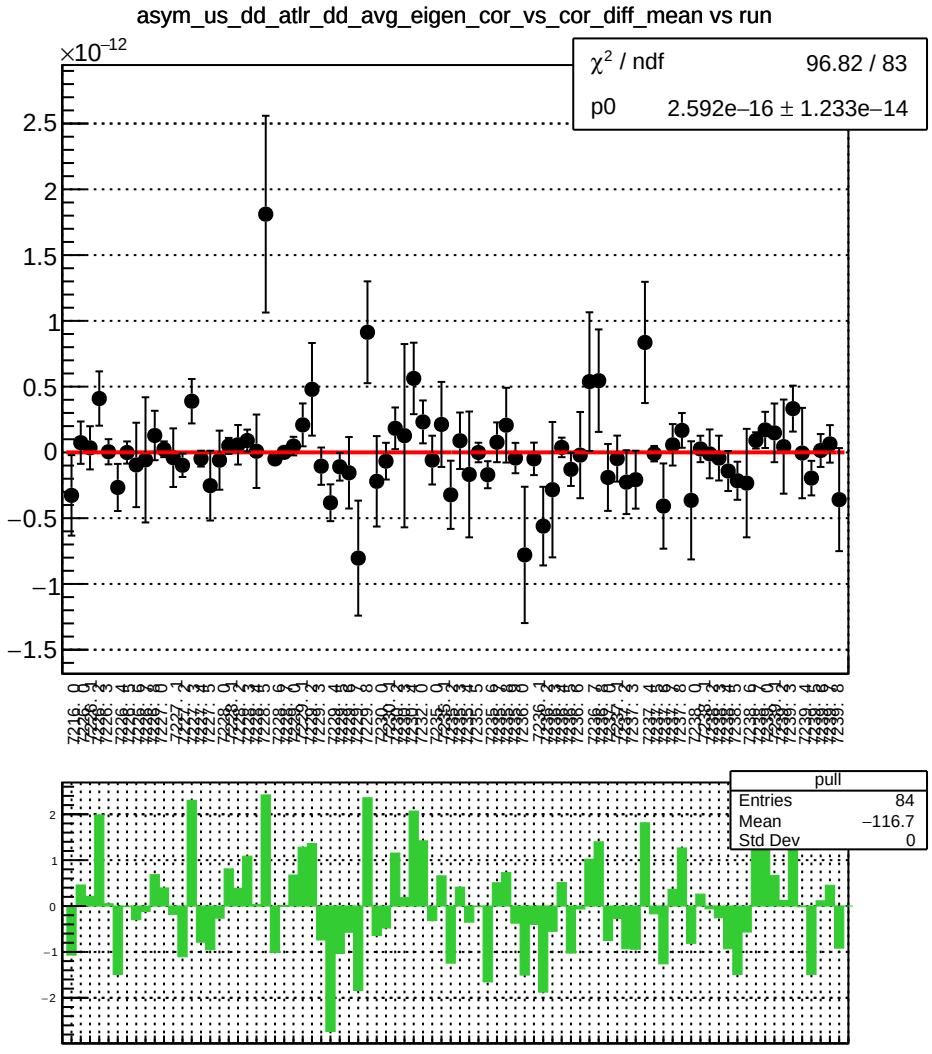

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.987e+05 / 83
p0 0.001078 ± 1.064e−06
0.01
0.008
0.006
0.004
0.002

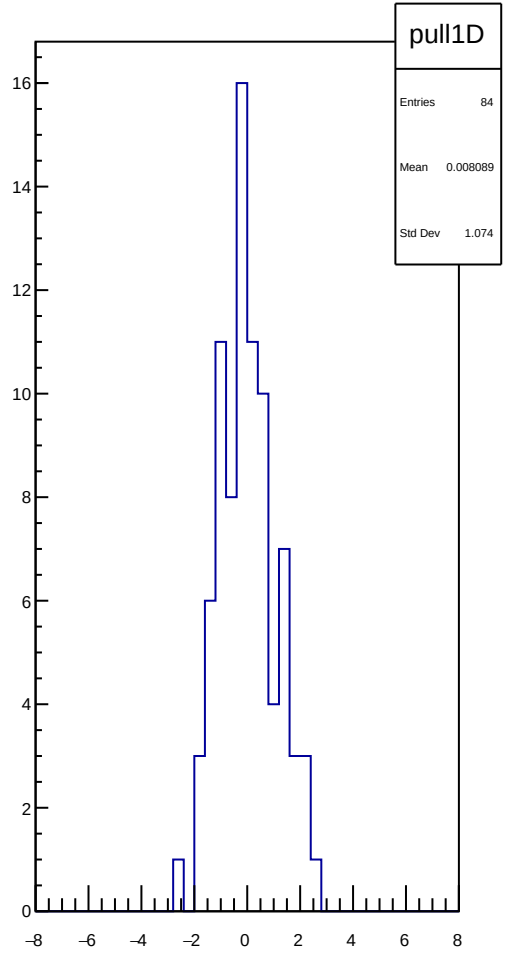

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.65 / 83
p0 −0.3279 ± 0.2183
pull
Entries 84
Mean 132.2
Std Dev 0
pull1D
Entries 84
Mean −0.01567
Std Dev 1.078

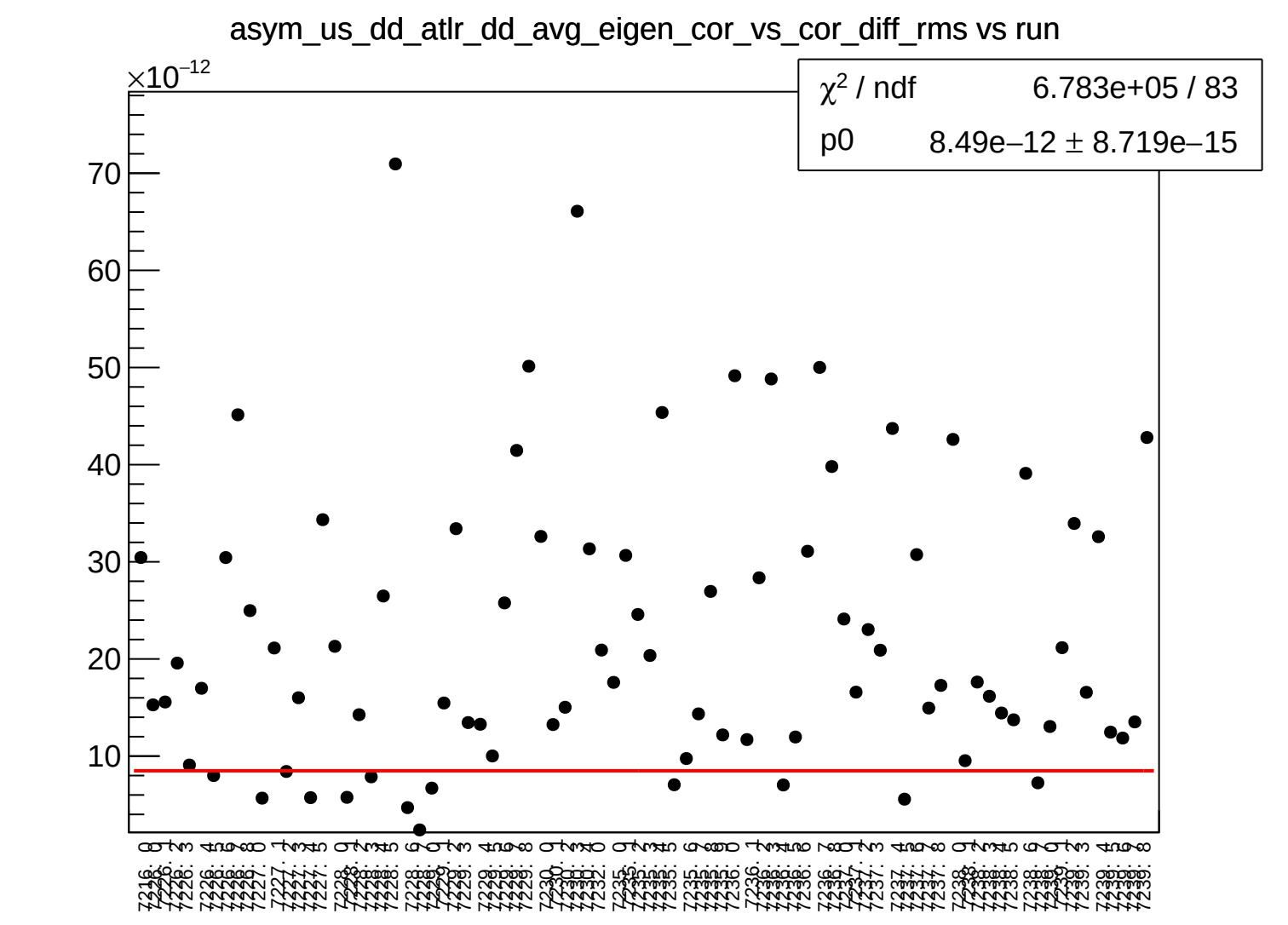

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.6e+04 / 83
p0 195.3 ± 0.1543
260
240
220
200
180
160
140
120

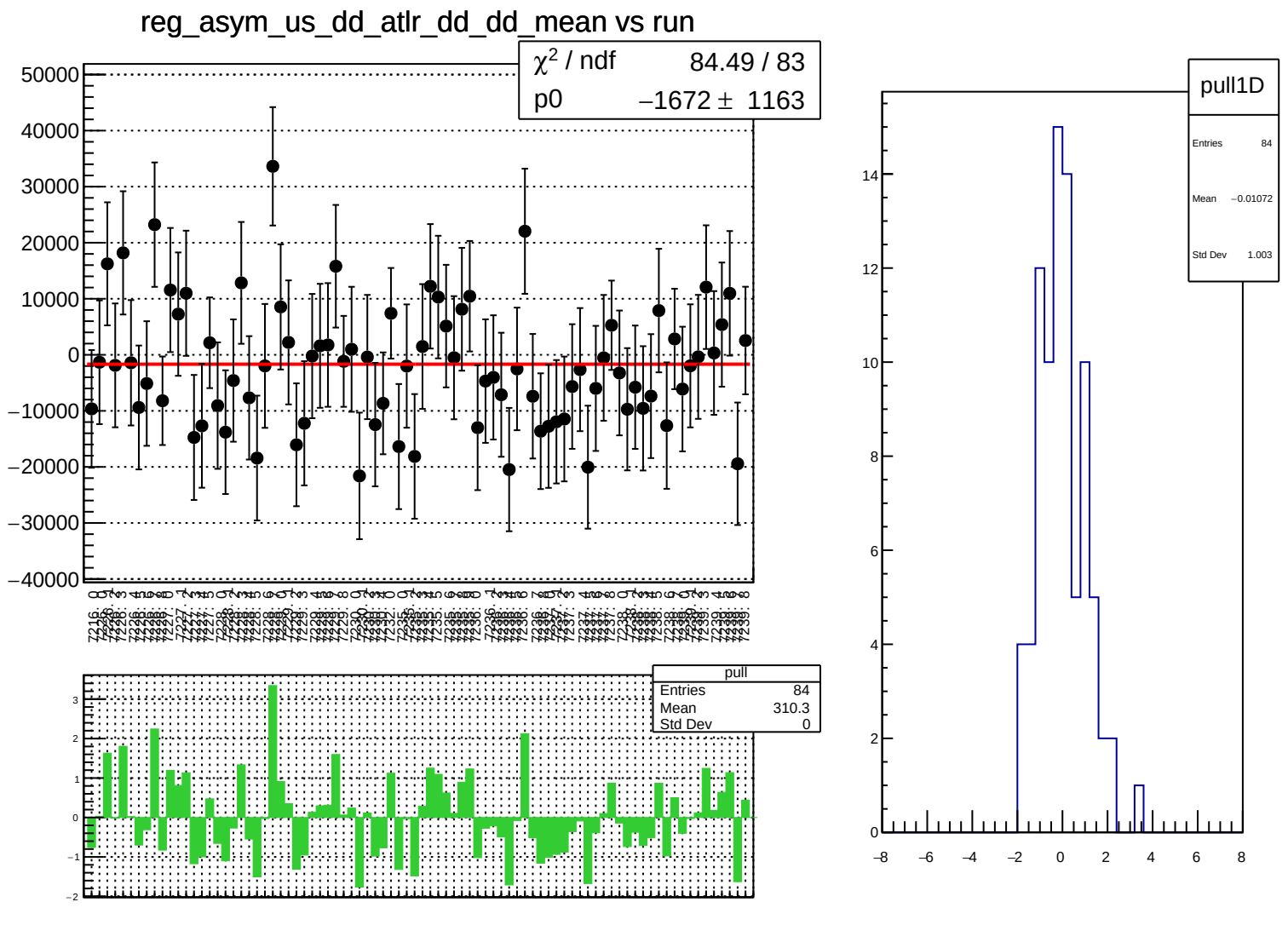

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.65 / 83
p0 −0.3279 ± 0.2183
pull
Entries 84
Mean 132.2
Std Dev 0
pull1D
Entries 84
Mean −0.01567
Std Dev 1.078

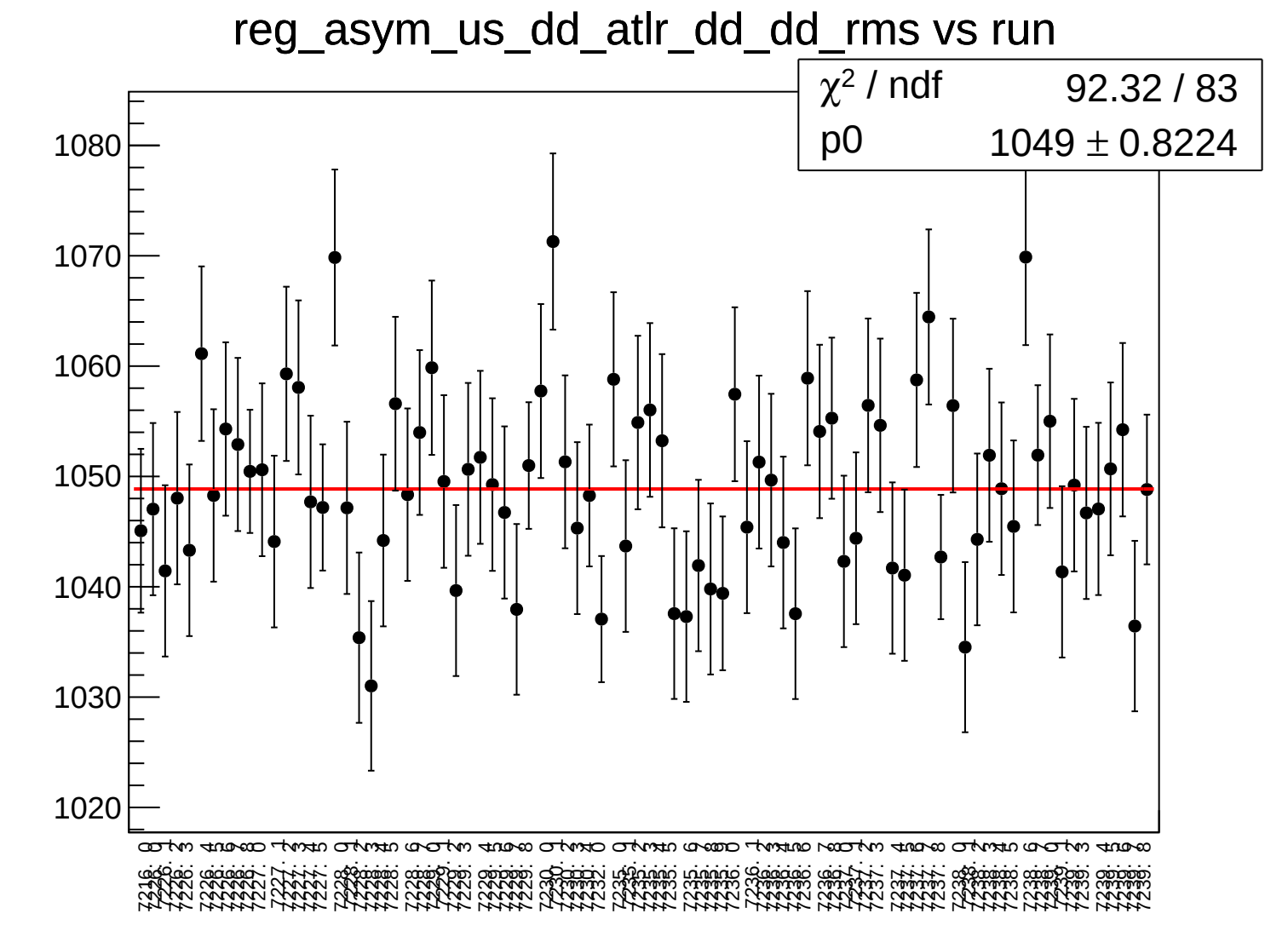

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.6e+04 / 83
p0 195.3 ± 0.1543
260
240
220
200
180
160
140
120

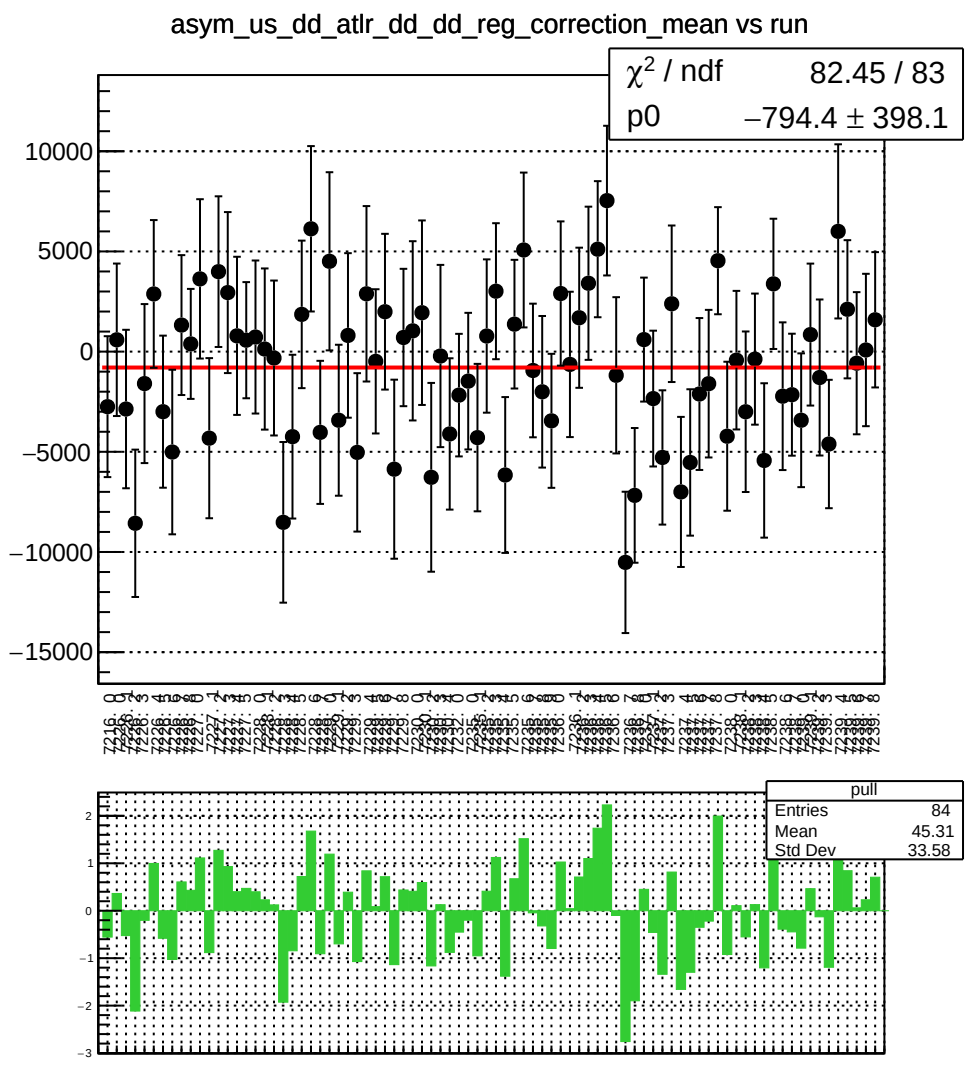

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.82 / 83
p0 2.592e−16 ± 1.233e−14
pull
Entries 84
Mean −116.7
Std Dev 0

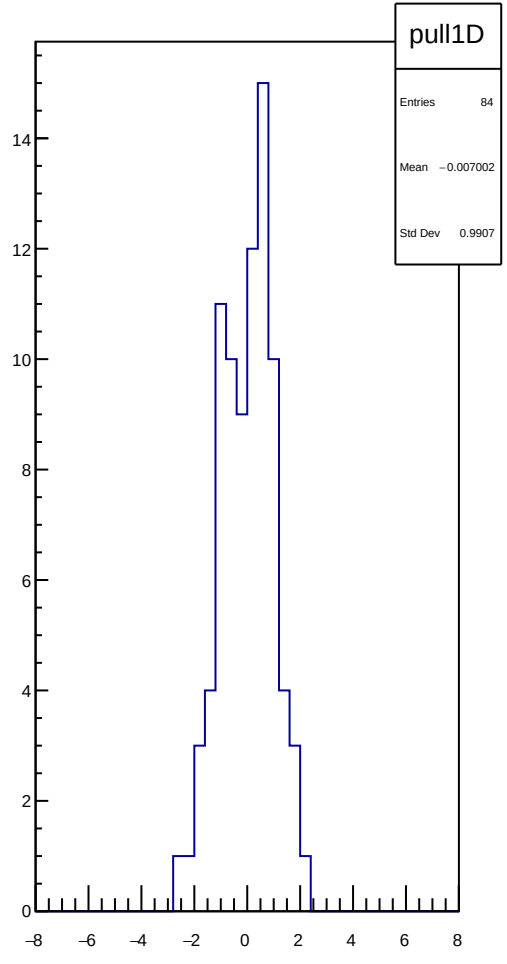

pull1D
Entries 84
Mean 0.008089
Std Dev 1.074

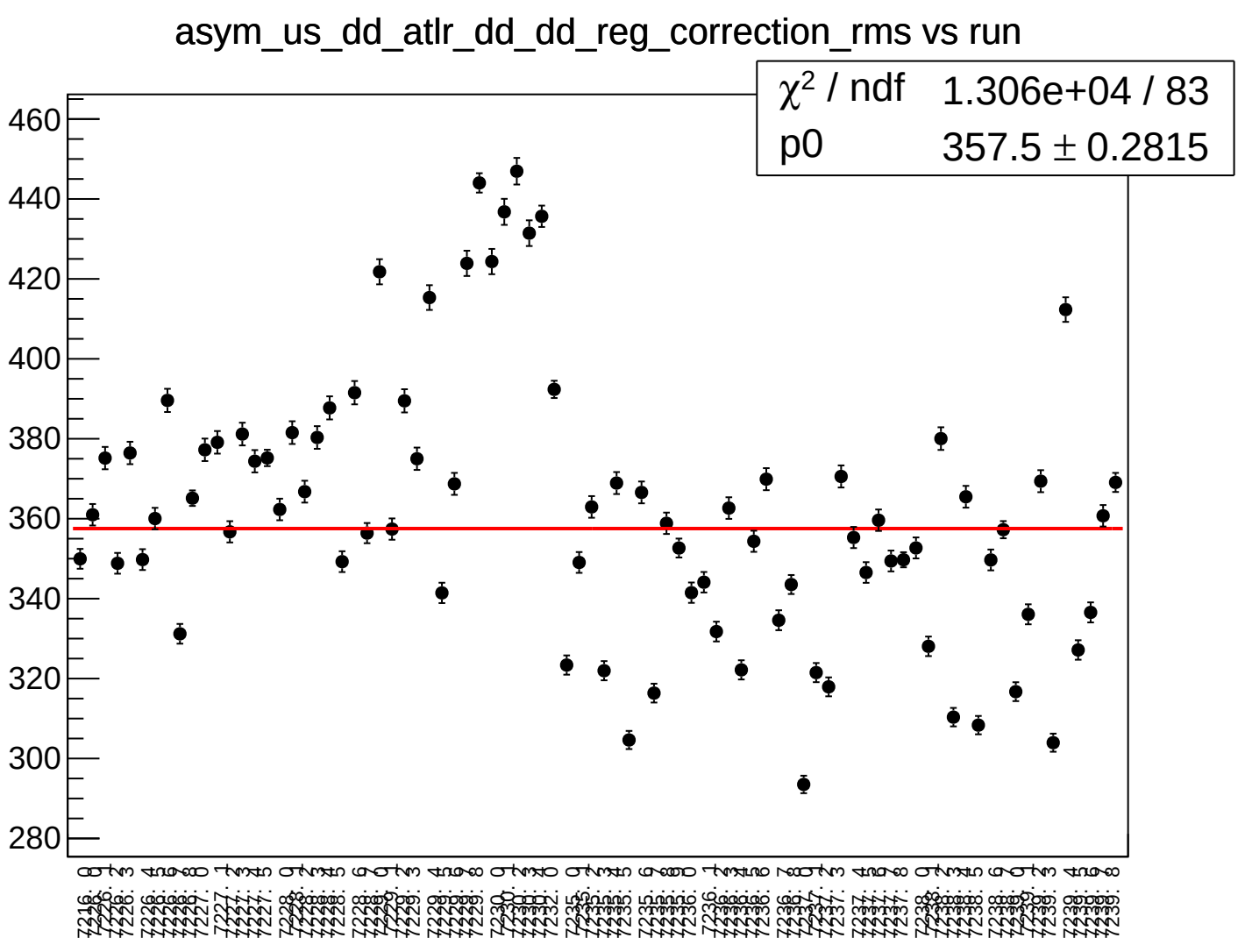

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.783e+05 / 83
p0 8.49e−12 ± 8.719e−15
70
60
50
40
30
20
10

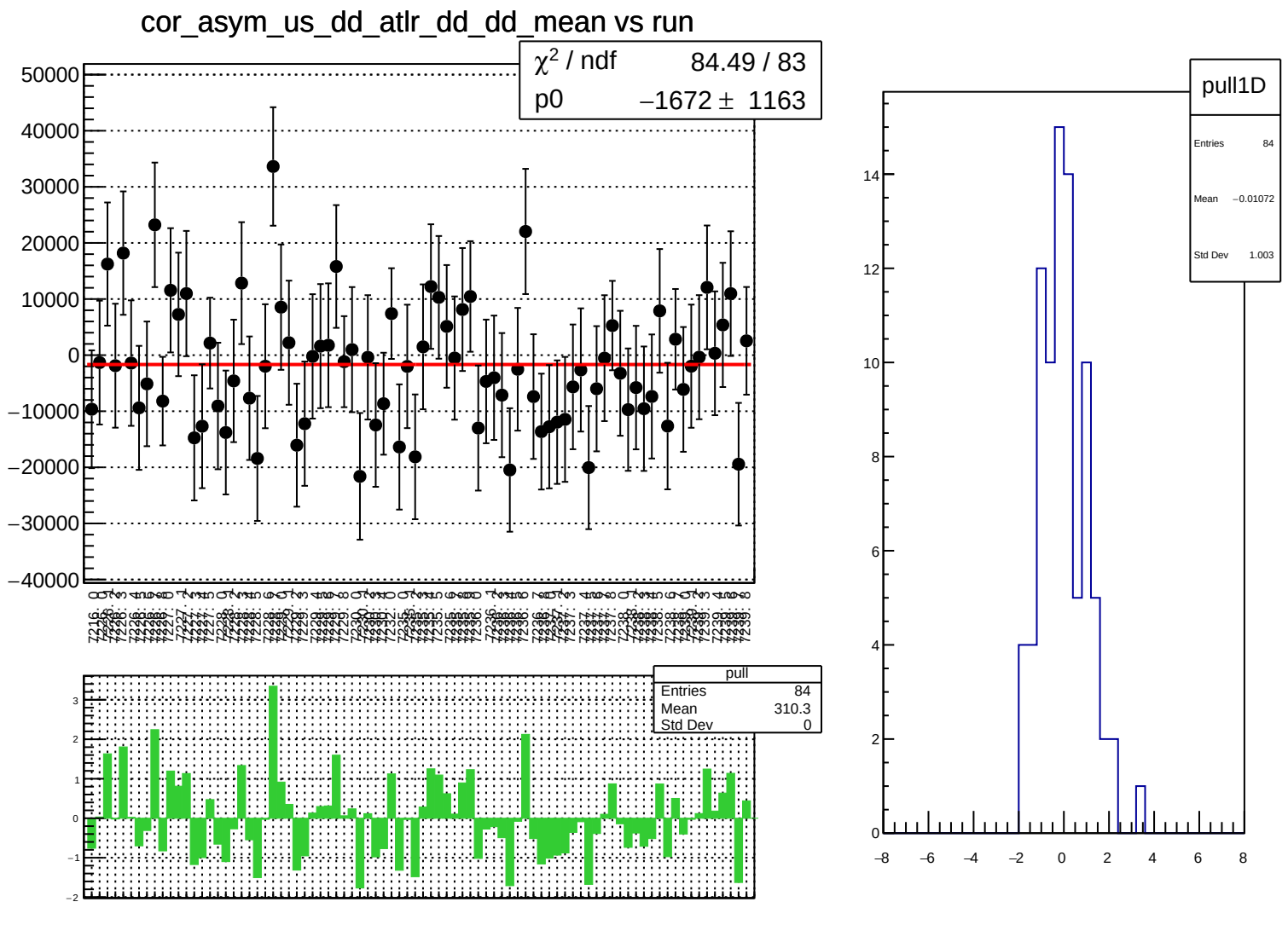

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 84.49 / 83
p0 −1672 ± 1163
pull
Entries 84
Mean 310.3
Std Dev 0
pull1D
Entries 84
Mean −0.01072
Std Dev 1.003

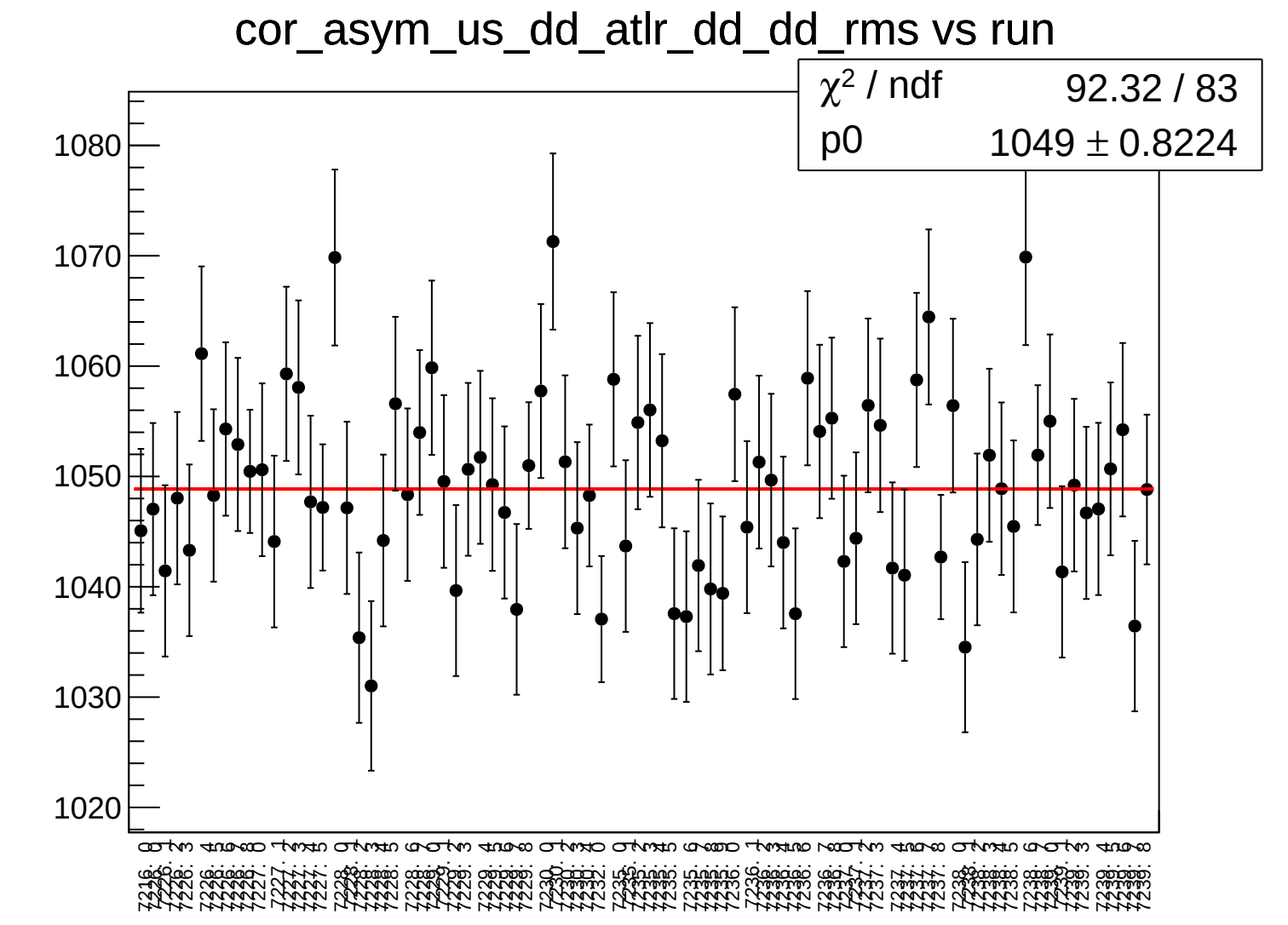

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ^2 / ndf 92.32 / 83
p0 1049 ± 0.8224
1080
1070
1060
1050
1040
1030
1020

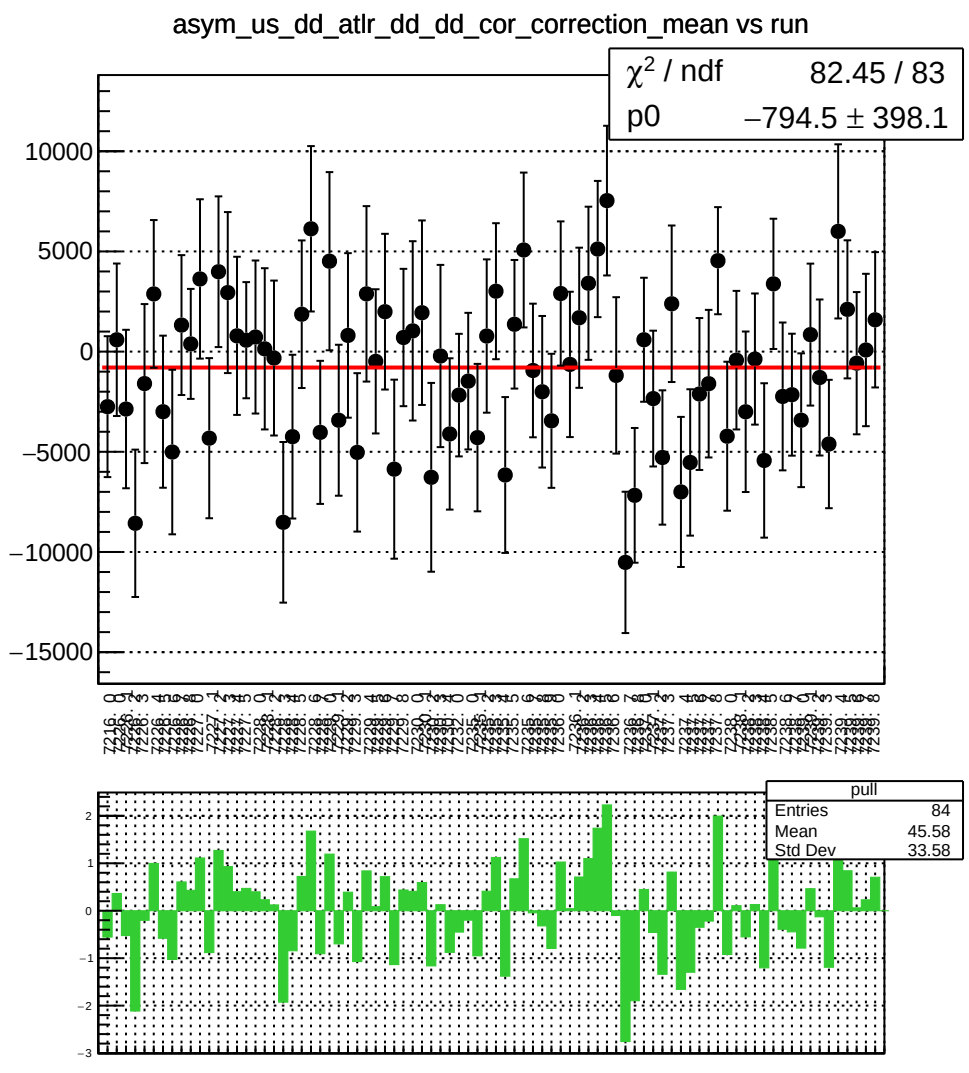

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 82.45 / 83
p0 −794.4 ± 398.1
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 45.31
Std Dev 33.58
2
1
0
−1
−2
−3

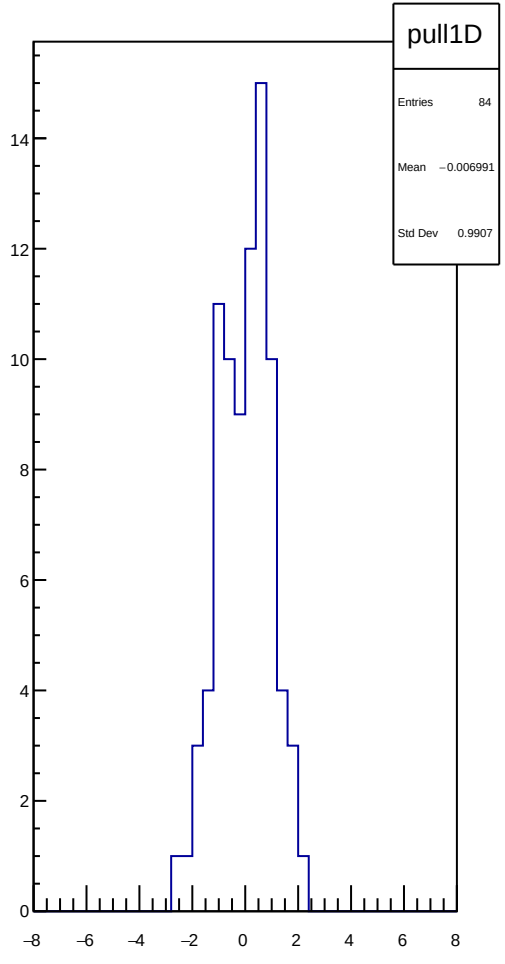

pull1D
Entries 84
Mean −0.007002
Std Dev 0.9907
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

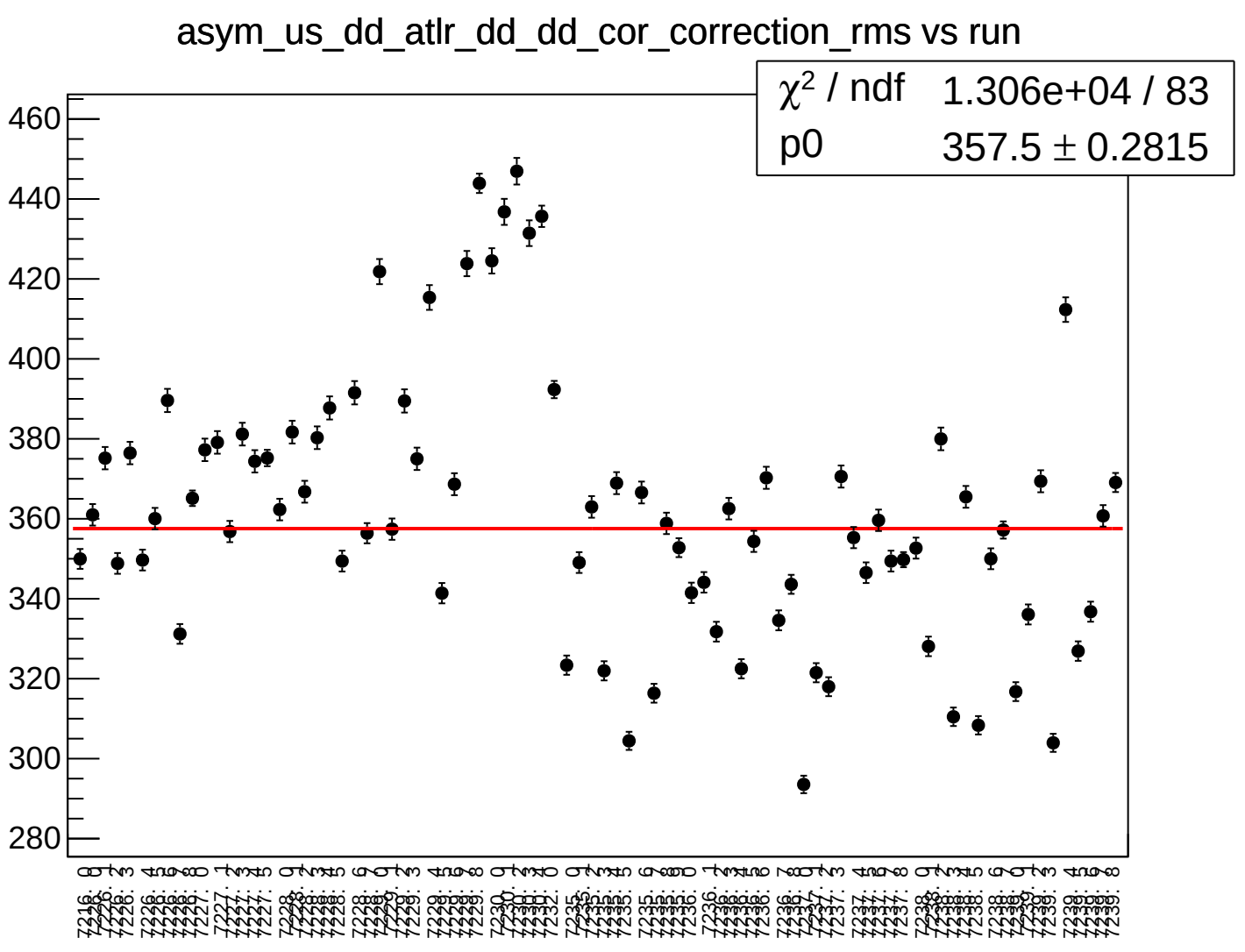

asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.306e+04 / 83
p0 357.5 ± 0.2815
460
440
420
400
380
360
340
320
300
280

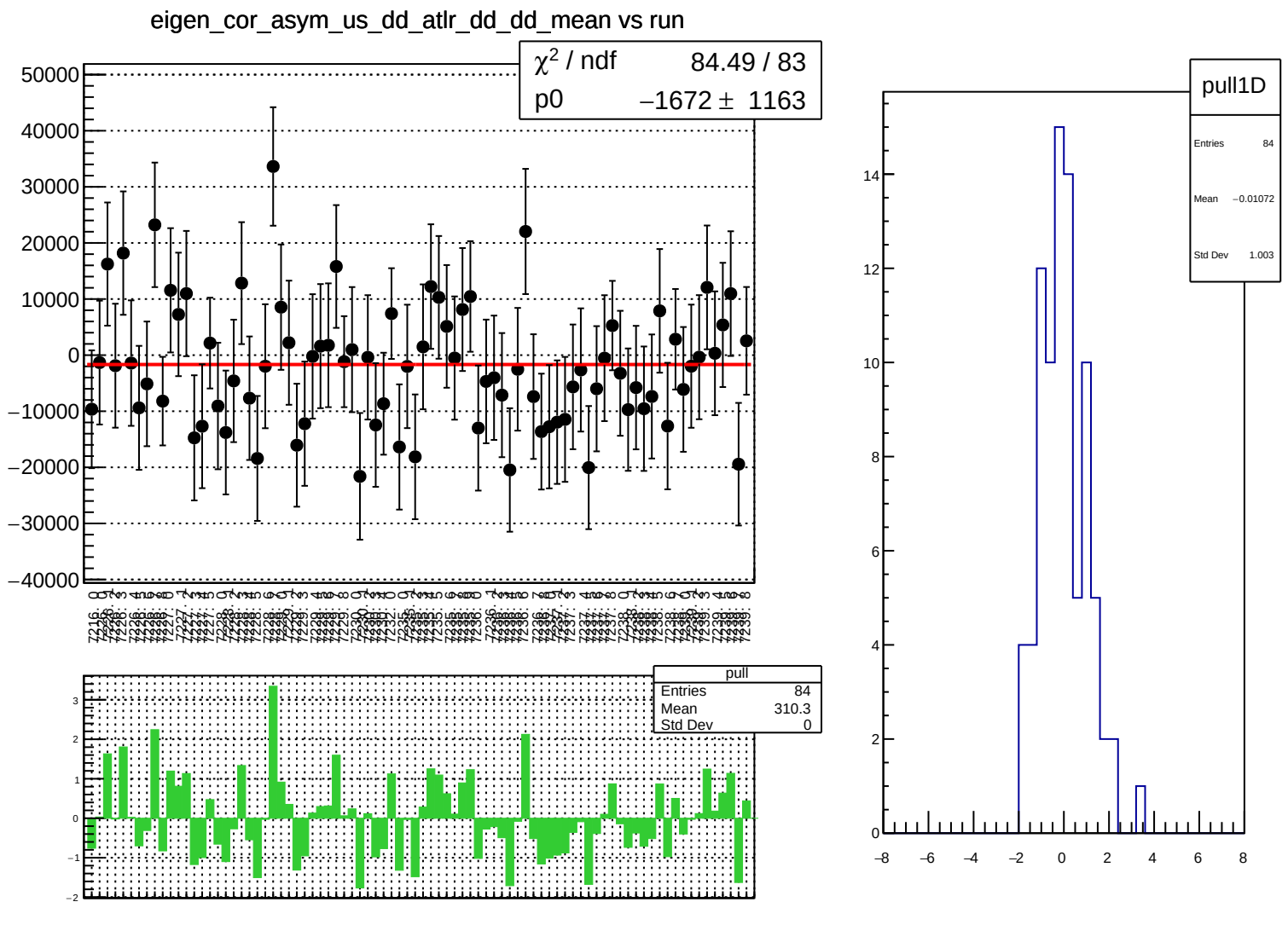

cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 84.49 / 83
p0 −1672 ± 1163
pull
Entries 84
Mean 310.3
Std Dev 0
pull1D
Entries 84
Mean −0.01072
Std Dev 1.003

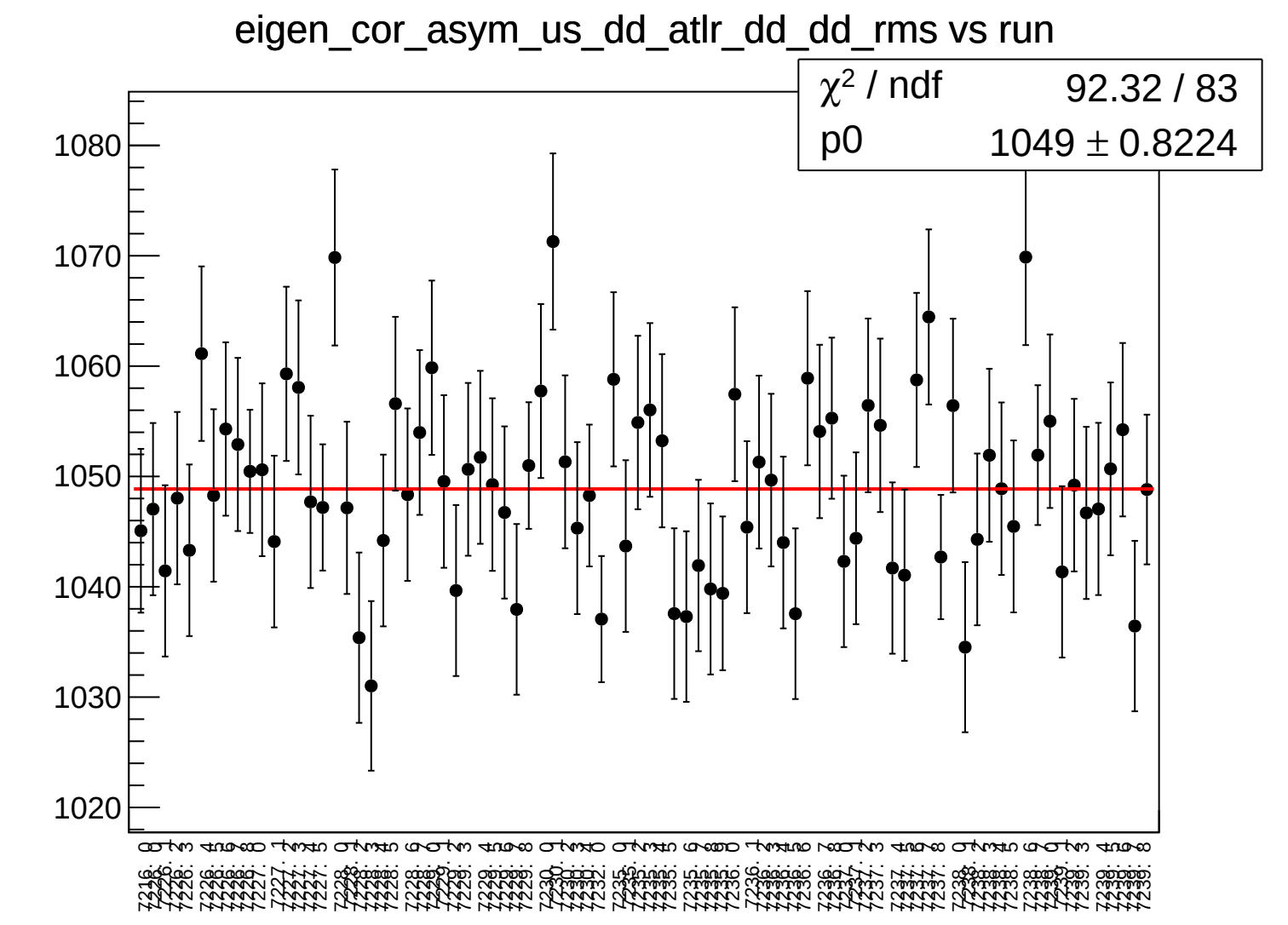

cor_asym_us_dd_atlr_dd_dd_rms vs run
χ^2 / ndf 92.32 / 83
p0 1049 ± 0.8224
1080
1070
1060
1050
1040
1030
1020

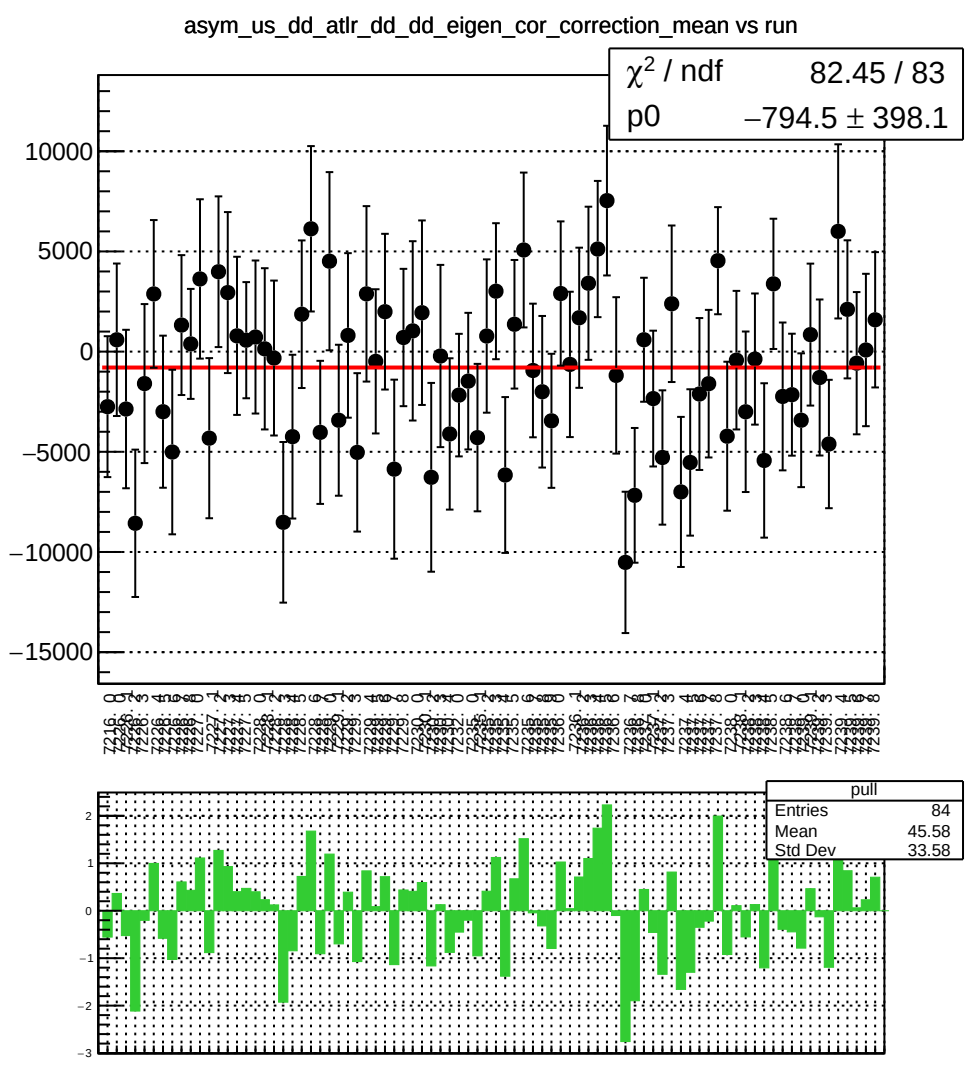

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 82.45 / 83
p0 −794.5 ± 398.1
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 45.58
Std Dev 33.58
2
1
0
−1
−2
−3

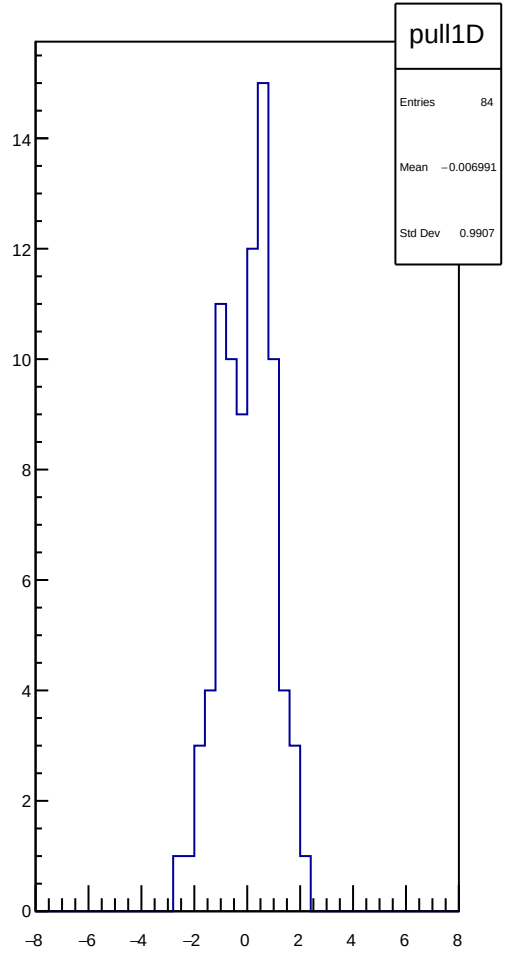

pull1D
Entries 84
Mean −0.006991
Std Dev 0.9907
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

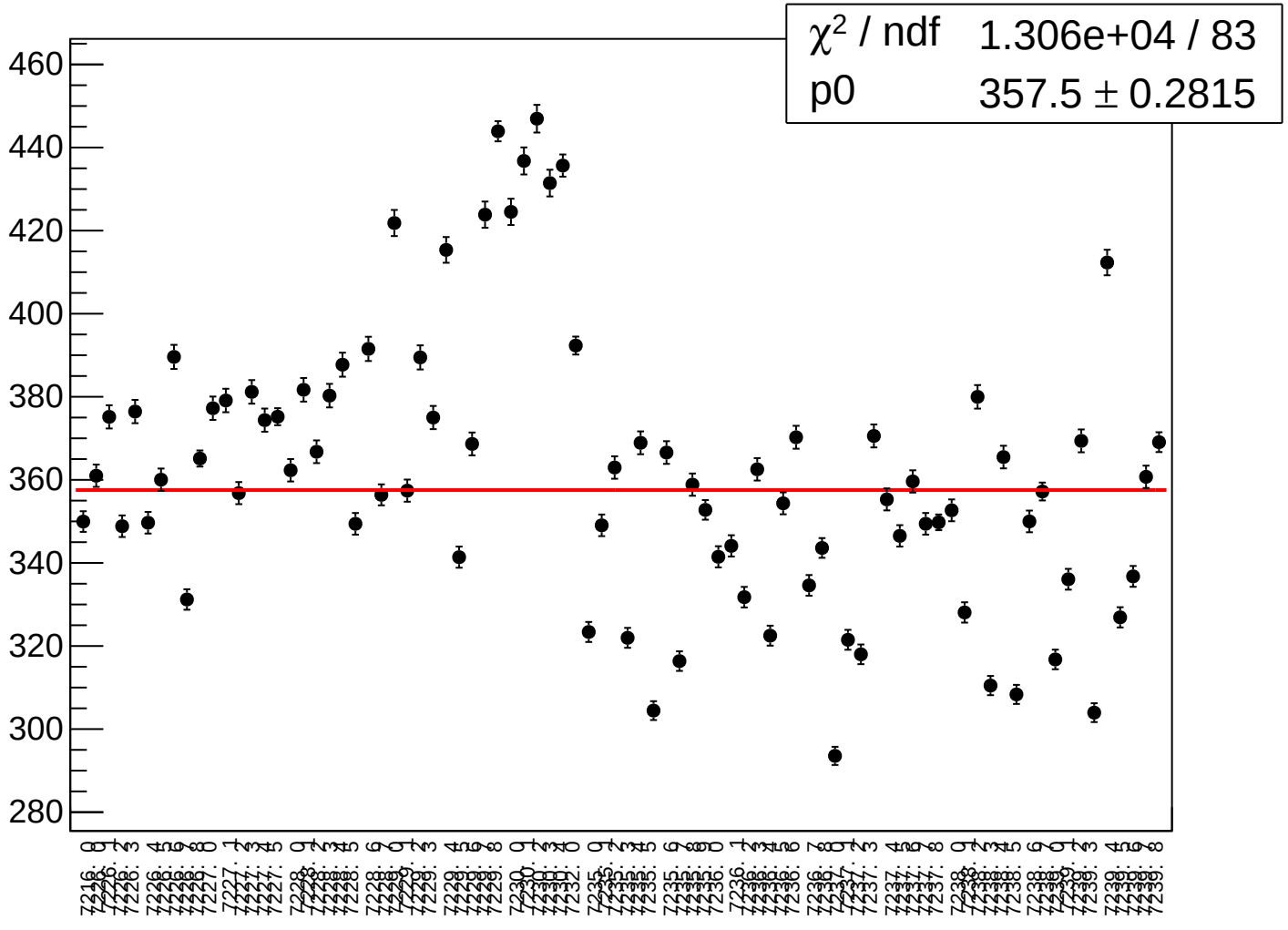

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.306e+04 / 83
p0 357.5 ± 0.2815
460
440
420
400
380
360
340
320
300
280

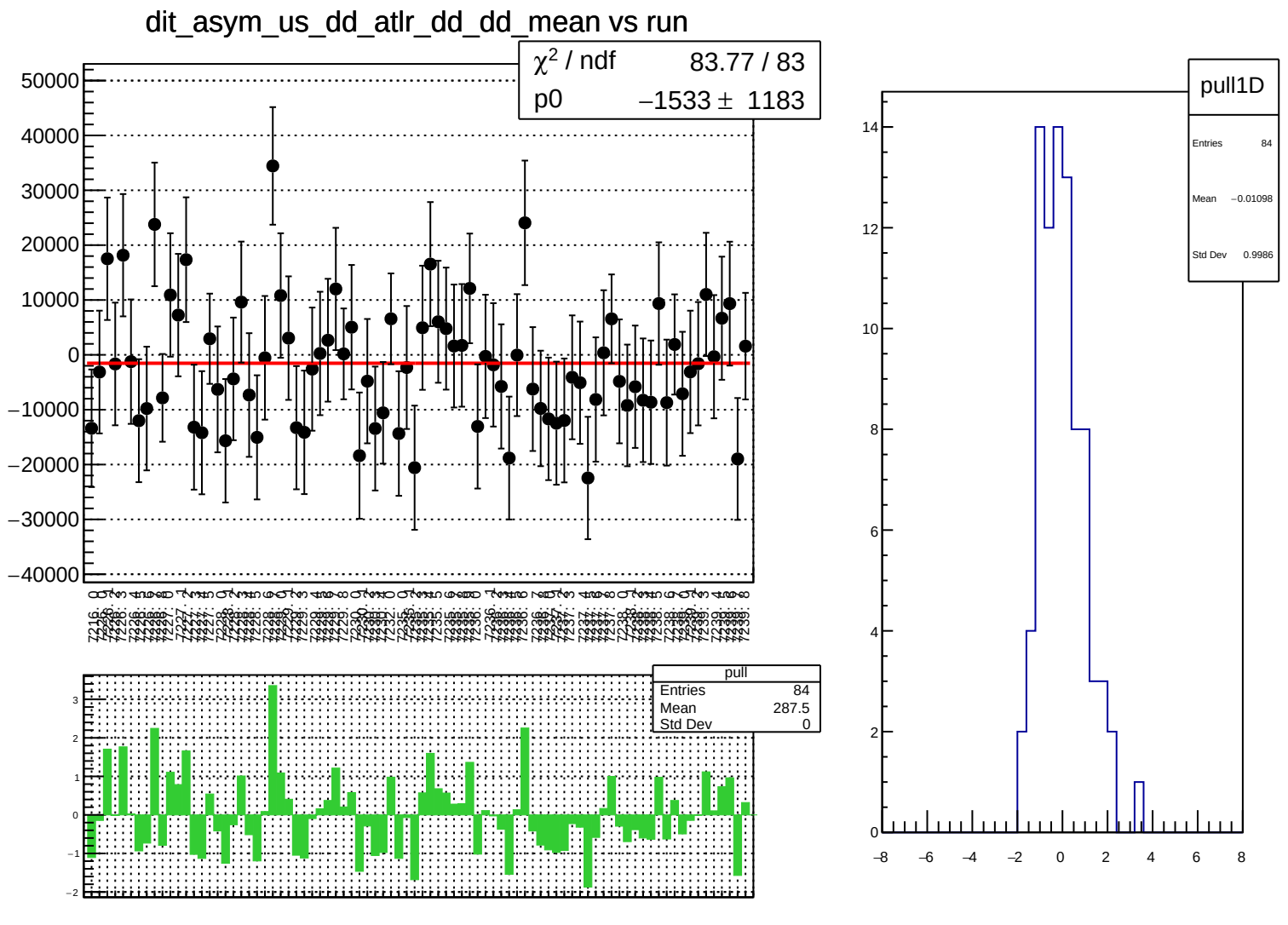

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 84.49 / 83
p0 −1672 ± 1163
pull
Entries 84
Mean 310.3
Std Dev 0
pull1D
Entries 84
Mean −0.01072
Std Dev 1.003

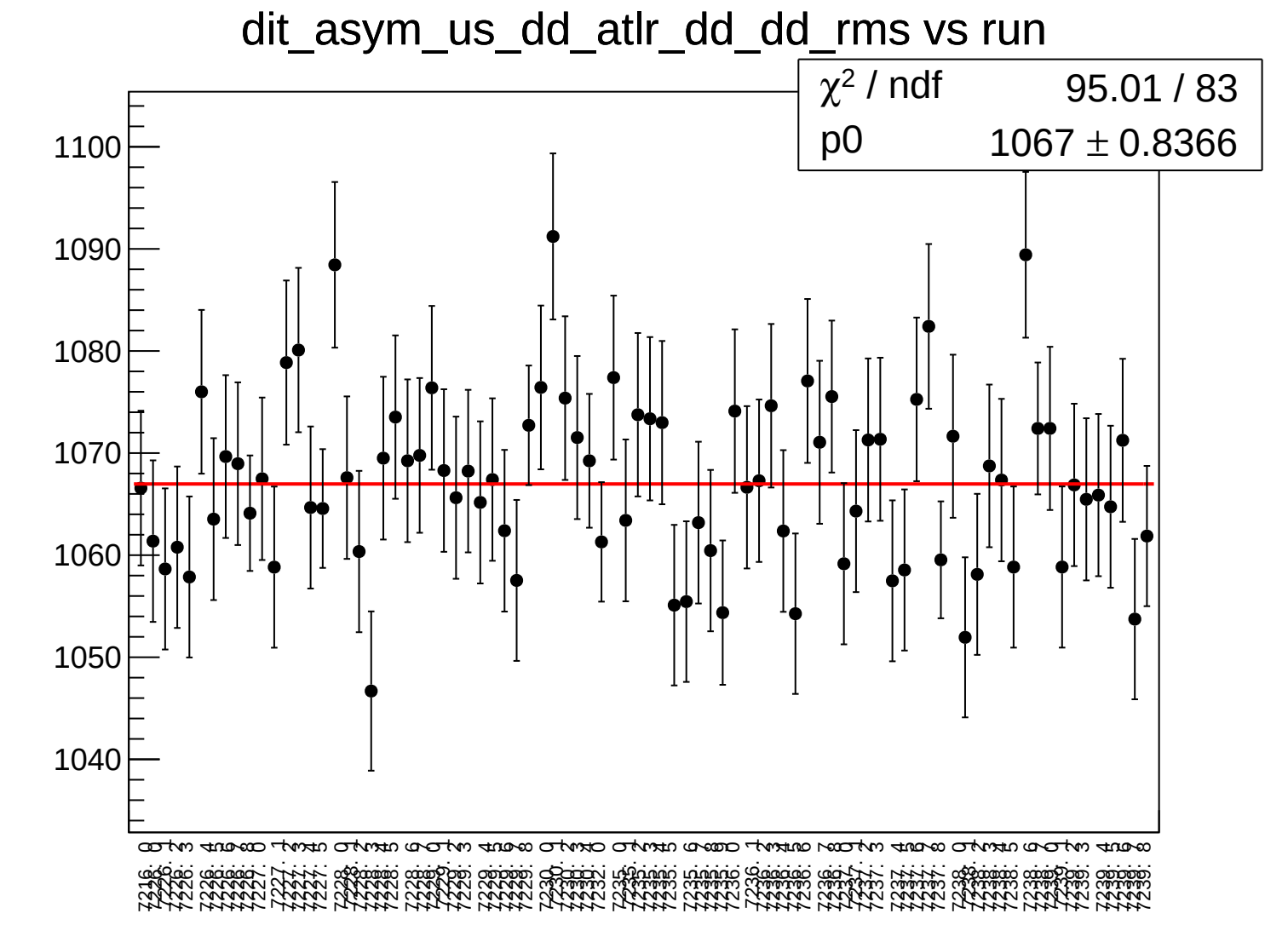

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ^2 / ndf 92.32 / 83
p0 1049 ± 0.8224
1080
1070
1060
1050
1040
1030
1020

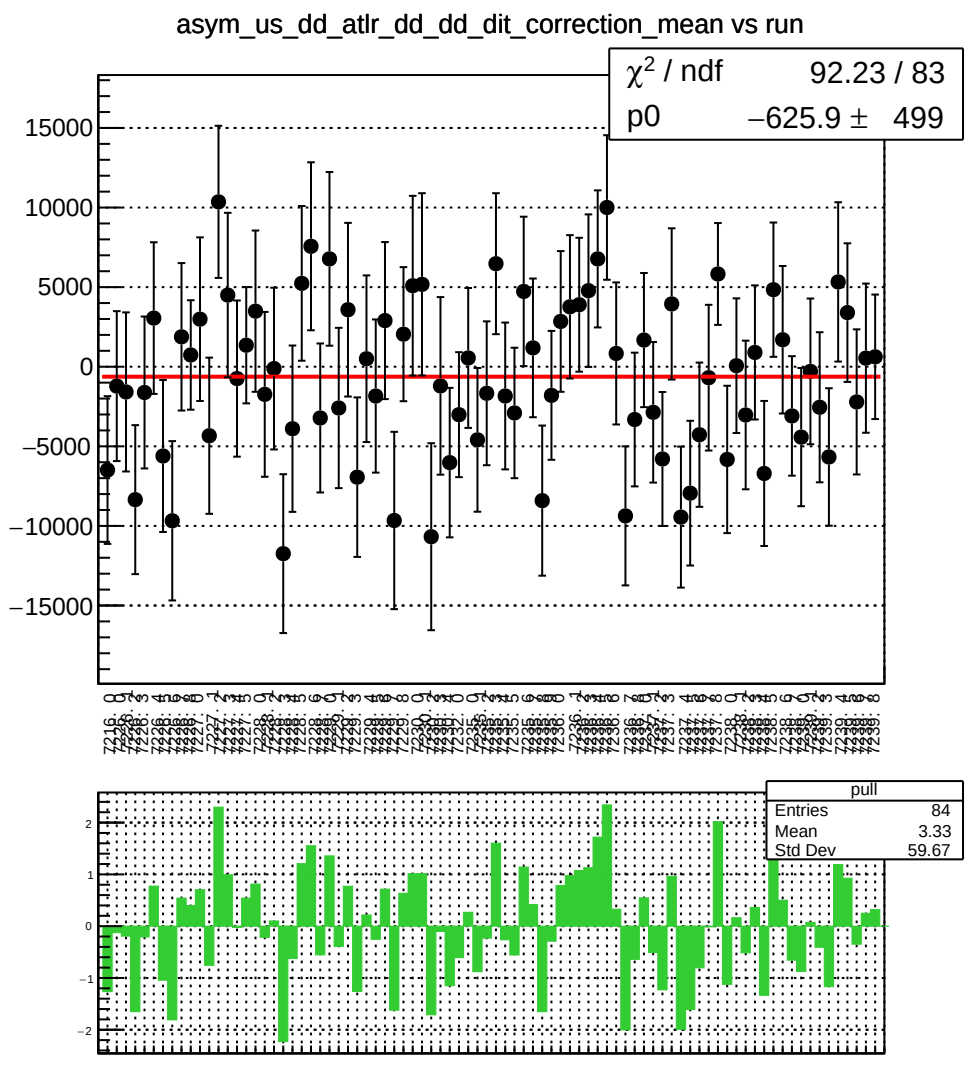

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 82.45 / 83
p0 −794.5 ± 398.1
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 45.58
Std Dev 33.58
2
1
0
−1
−2
−3

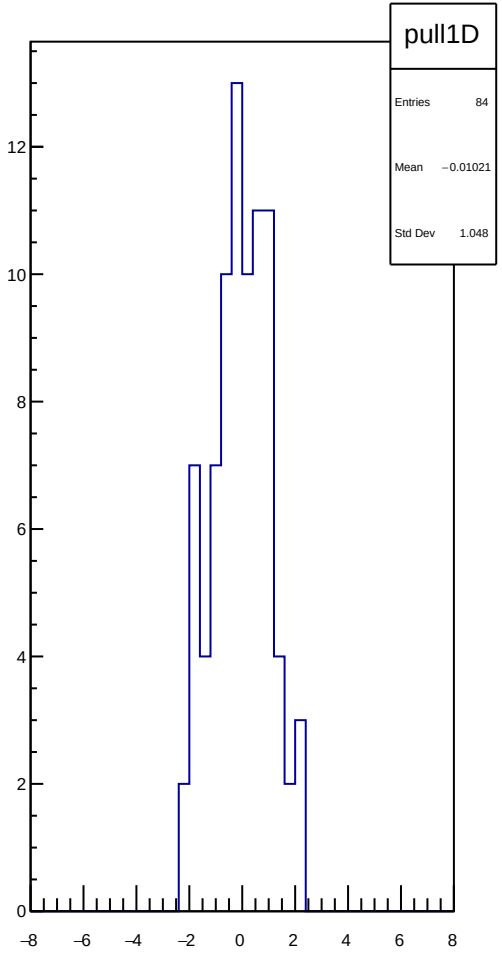

pull1D
Entries 84
Mean −0.006991
Std Dev 0.9907
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

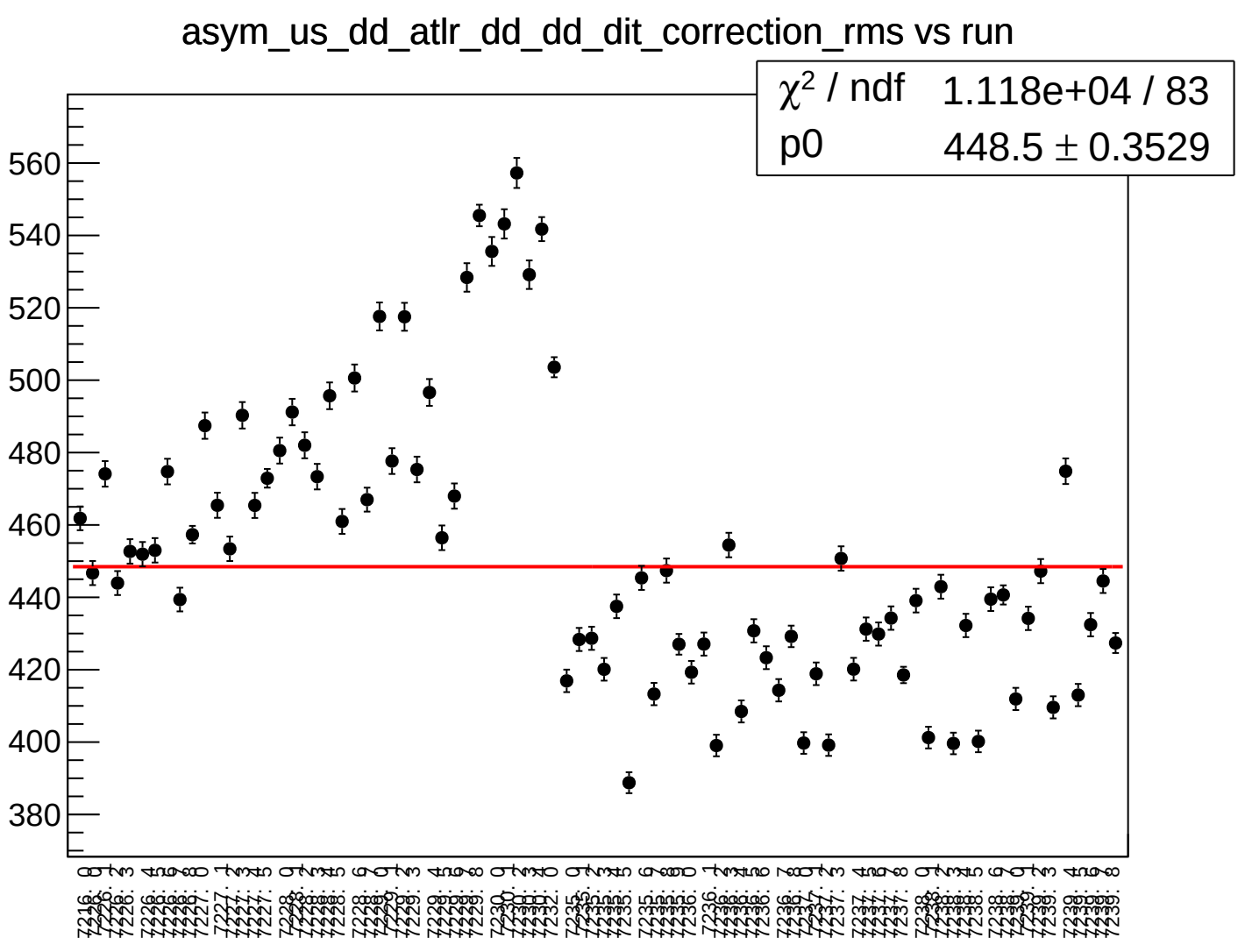

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.306e+04 / 83
p0 357.5 ± 0.2815
460
440
420
400
380
360
340
320
300
280

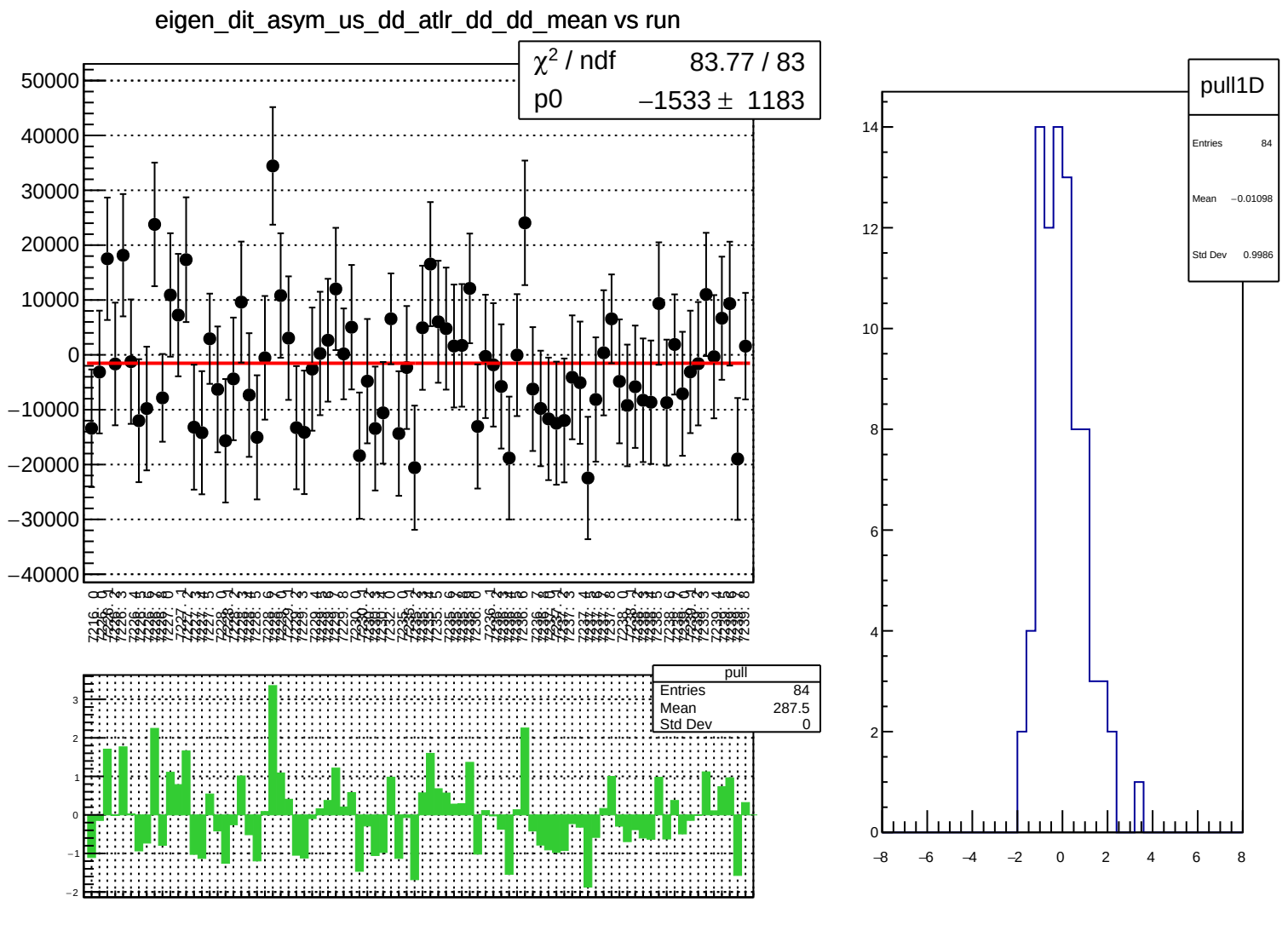

dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 83.77 / 83
p0 −1533 ± 1183
pull
Entries 84
Mean 287.5
Std Dev 0
pull1D
Entries 84
Mean −0.01098
Std Dev 0.9986

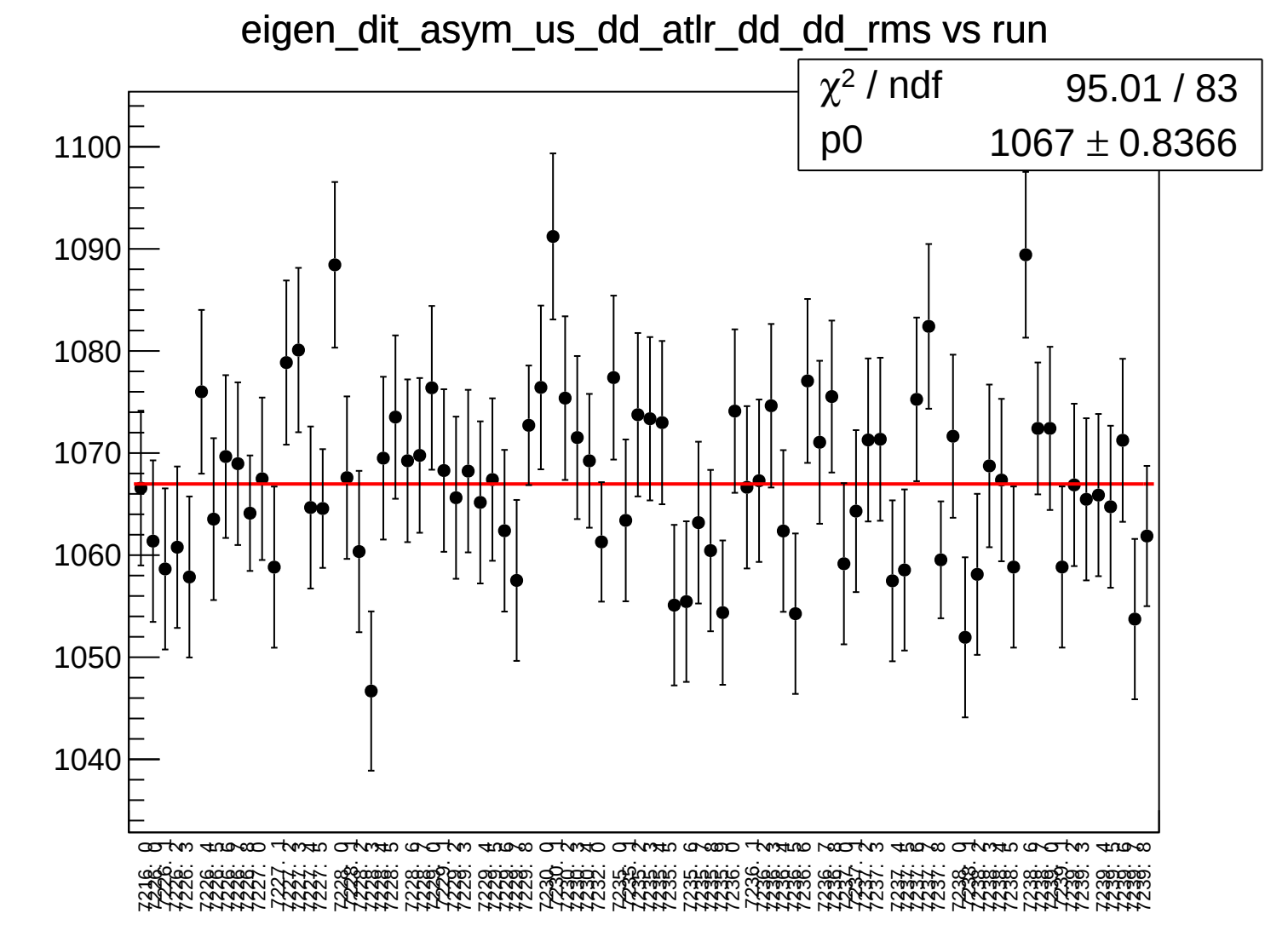

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 95.01 / 83
p0 1067 ± 0.8366
1100
1090
1080
1070
1060
1050
1040

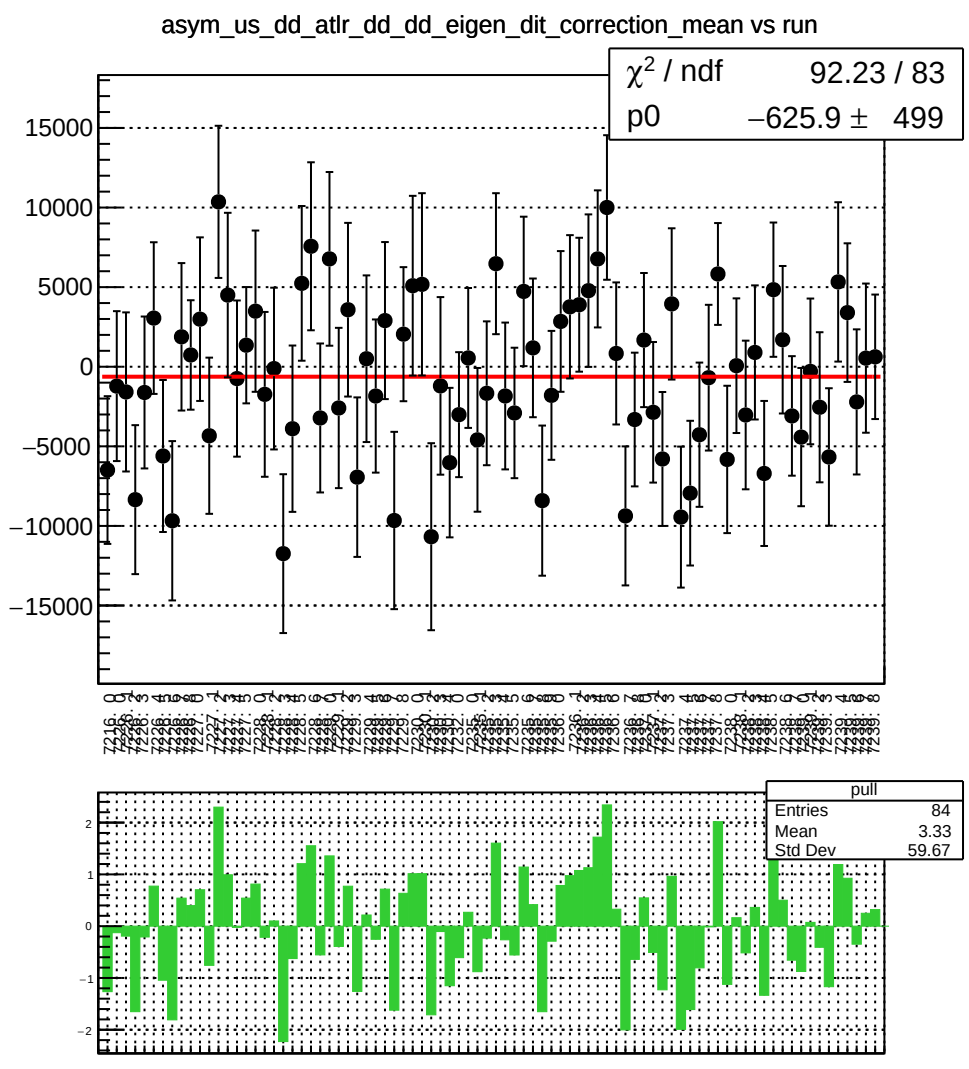

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 92.23 / 83
p0 −625.9 ± 499
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 3.33
Std Dev 59.67
2
1
0
−1
−2

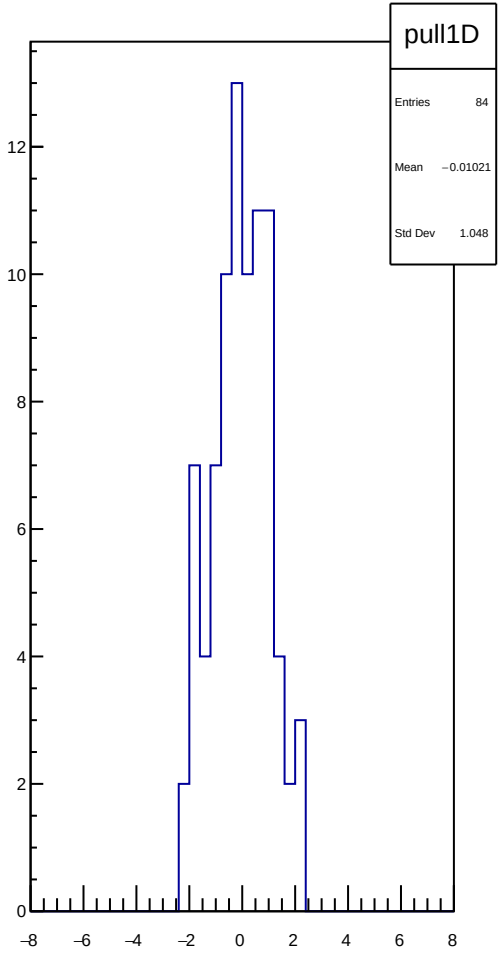

pull1D
Entries 84
Mean −0.01021
Std Dev 1.048
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

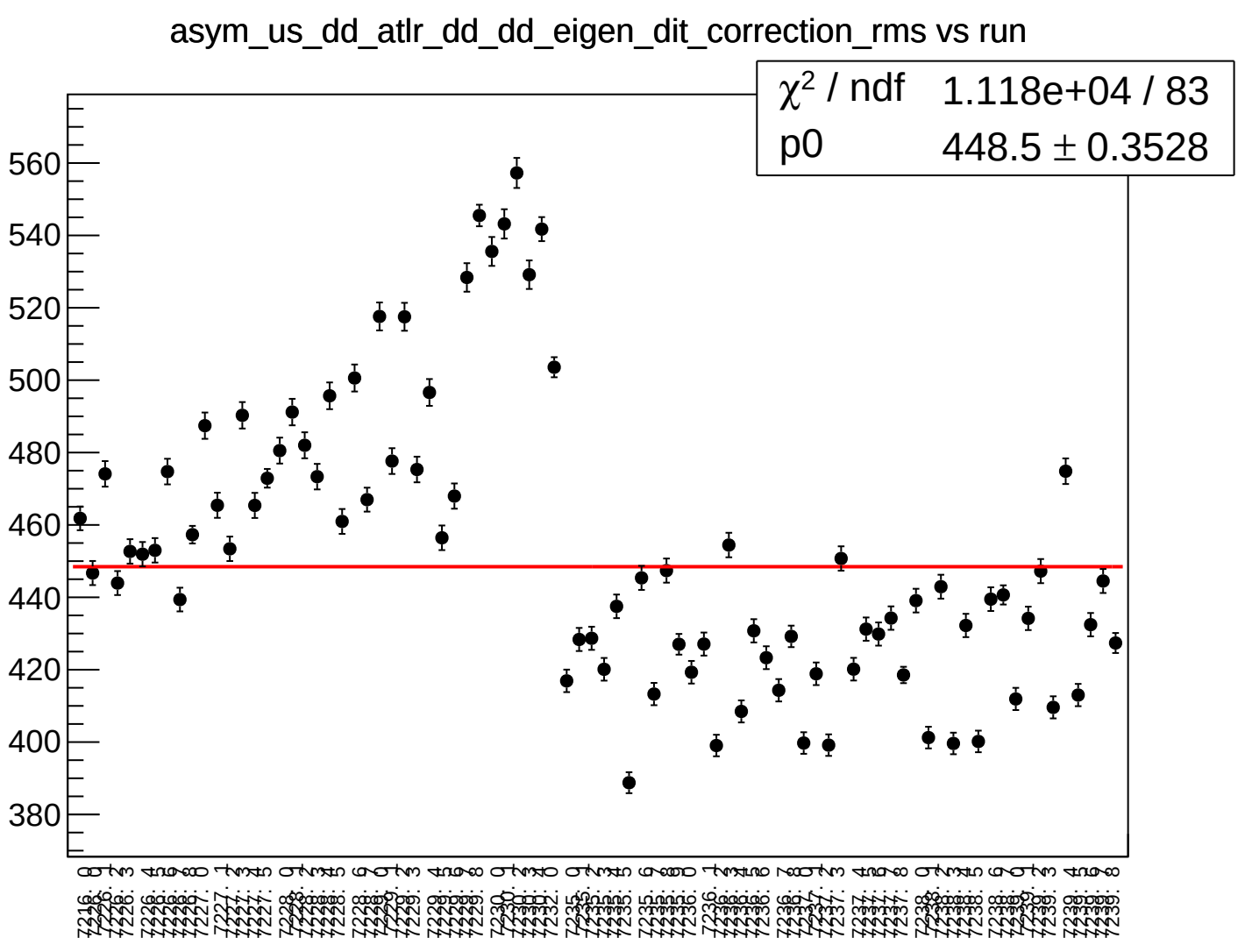

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 1.118e+04 / 83
p0 448.5 ± 0.3529
560
540
520
500
480
460
440
420
400
380

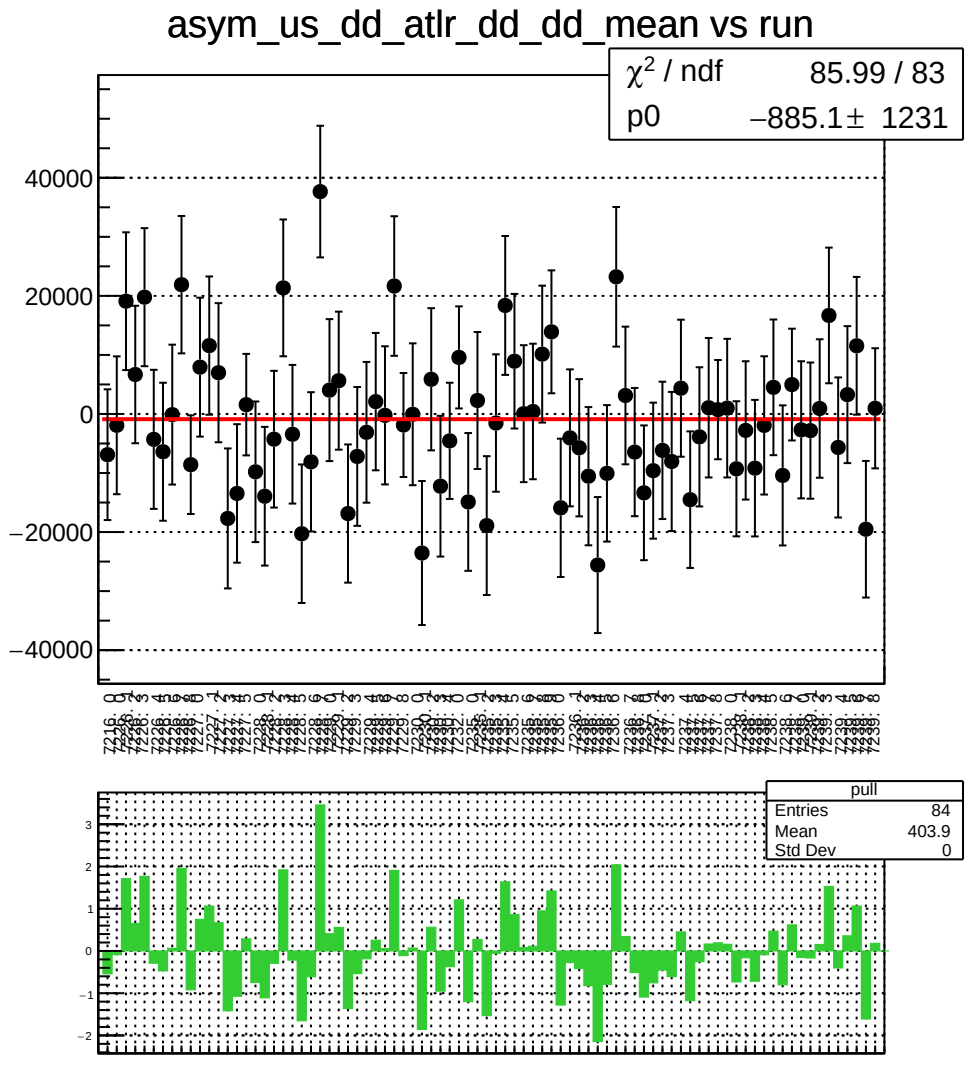

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 83.77 / 83
p0 −1533 ± 1183
pull
Entries 84
Mean 287.5
Std Dev 0
pull1D
Entries 84
Mean −0.01098
Std Dev 0.9986

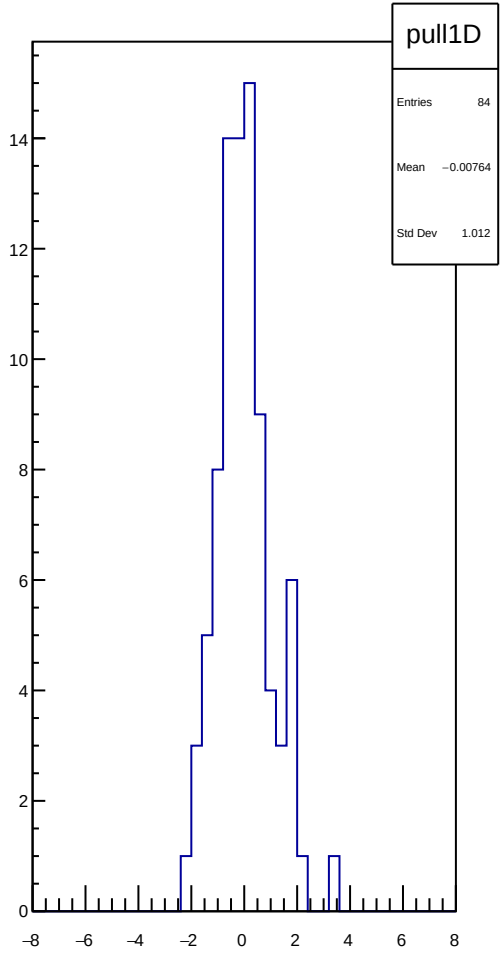

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ^2 / ndf 95.01 / 83
p0 1067 ± 0.8366
1100
1090
1080
1070
1060
1050
1040

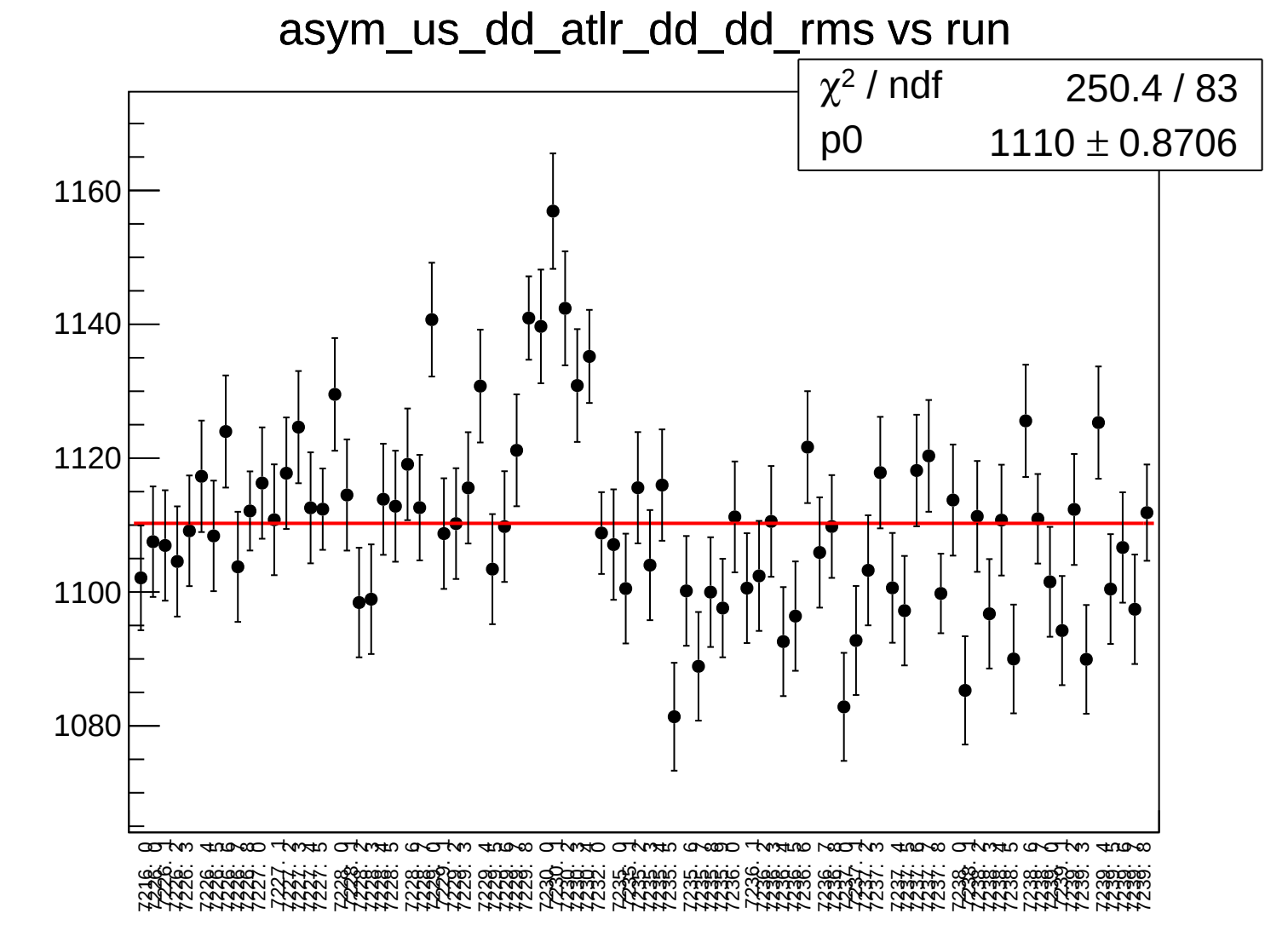

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 92.23 / 83
p0 −625.9 ± 499
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 3.33
Std Dev 59.67
2
1
0
−1
−2

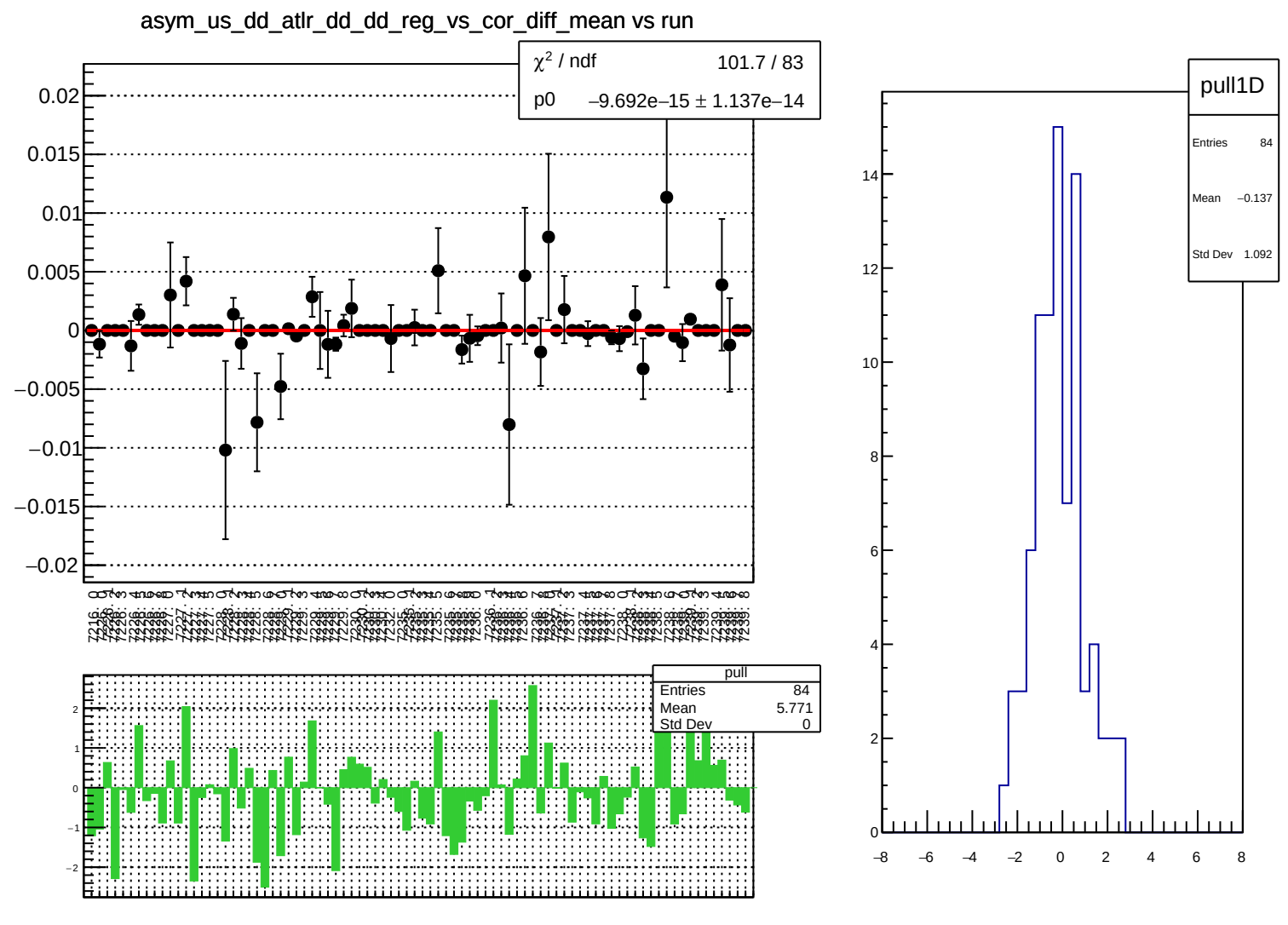

pull1D
Entries 84
Mean −0.01021
Std Dev 1.048
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

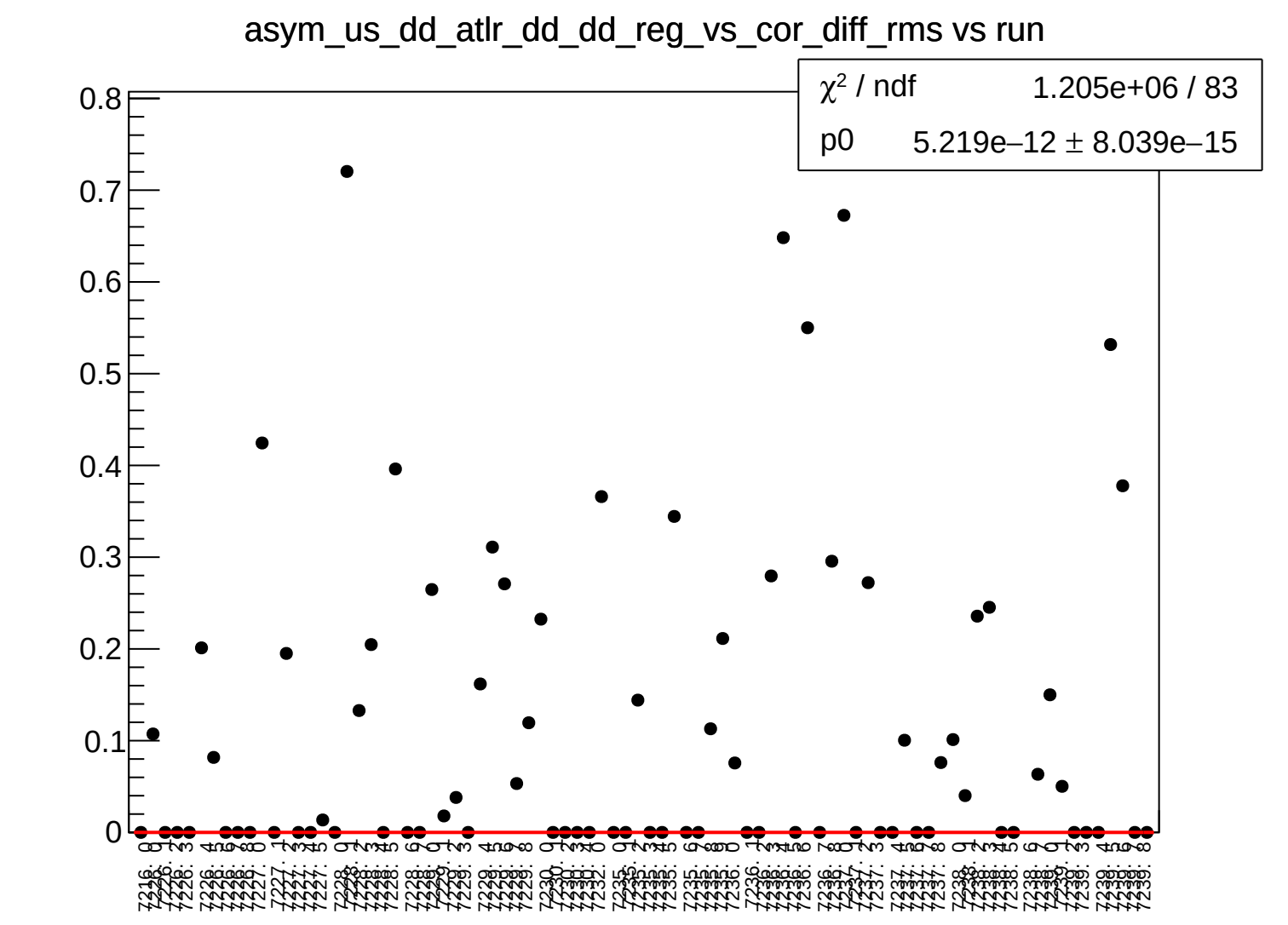

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.118e+04 / 83
p0 448.5 ± 0.3528
560
540
520
500
480
460
440
420
400
380

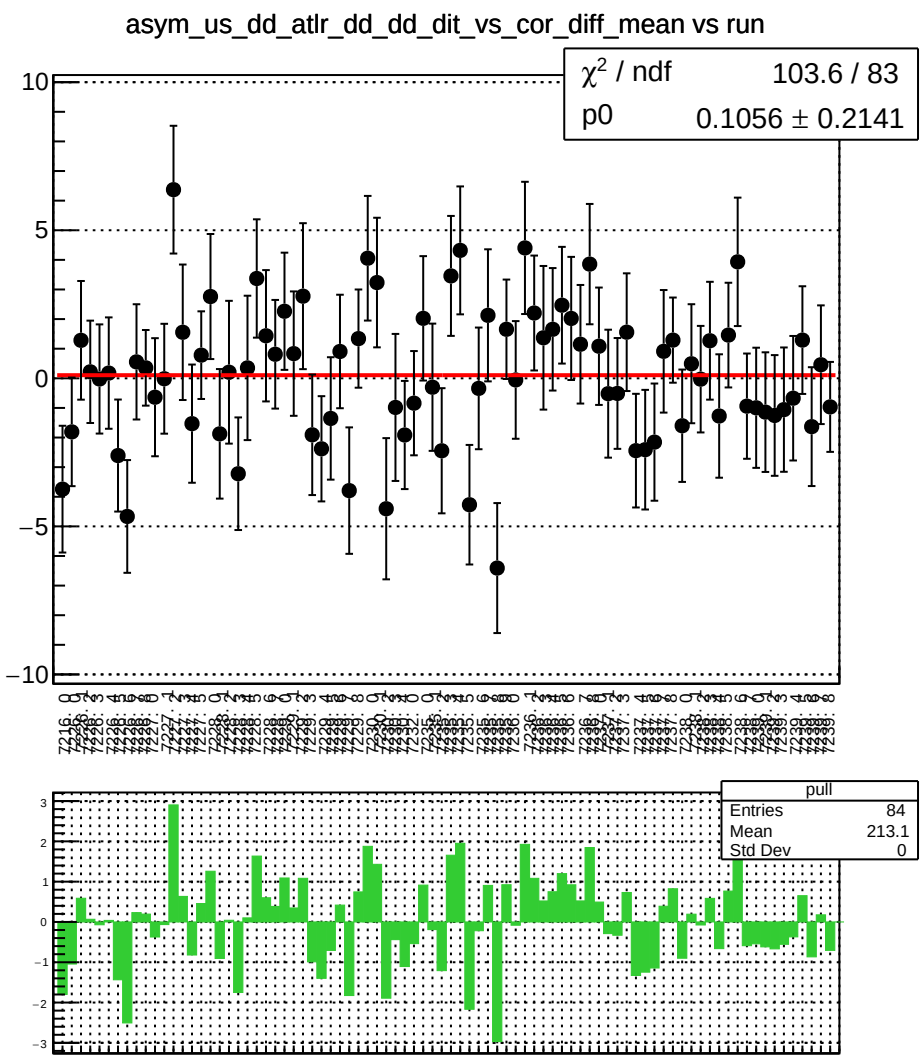

asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 85.99 / 83
p0 −885.1± 1231
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 403.9
Std Dev 0
3
2
1
0
−1
−2

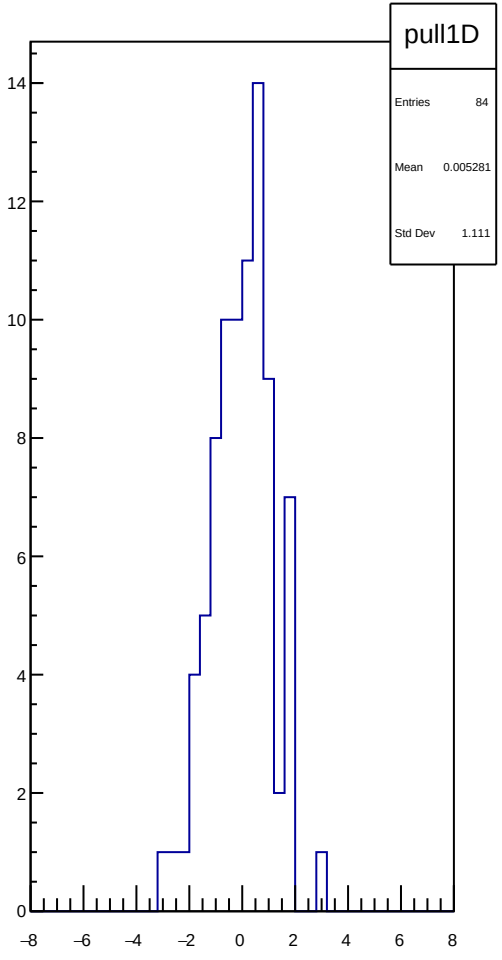

pull1D
Entries 84
Mean −0.00764
Std Dev 1.012
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

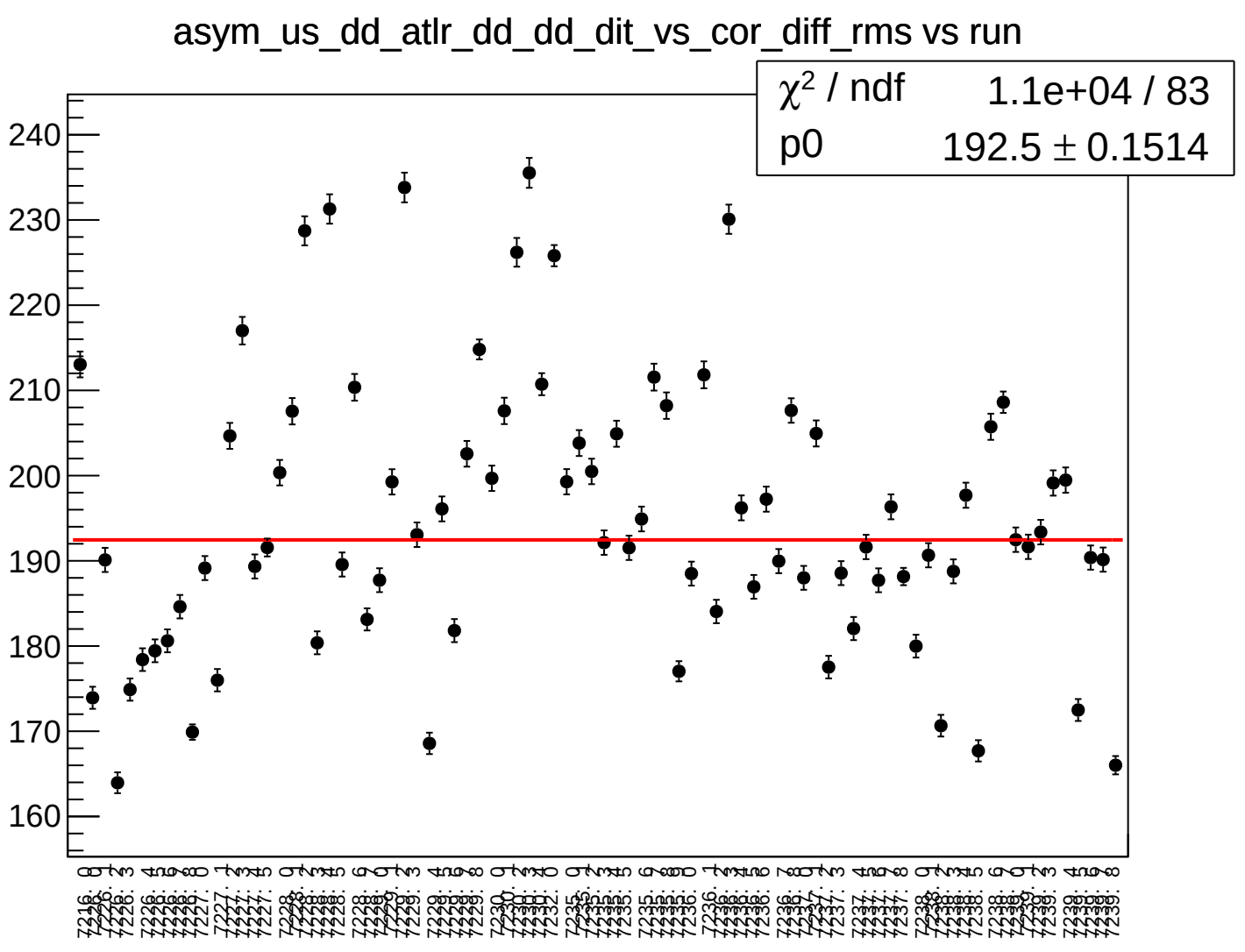

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 250.4 / 83
p0 1110 ± 0.8706
1160
1140
1120
1100
1080

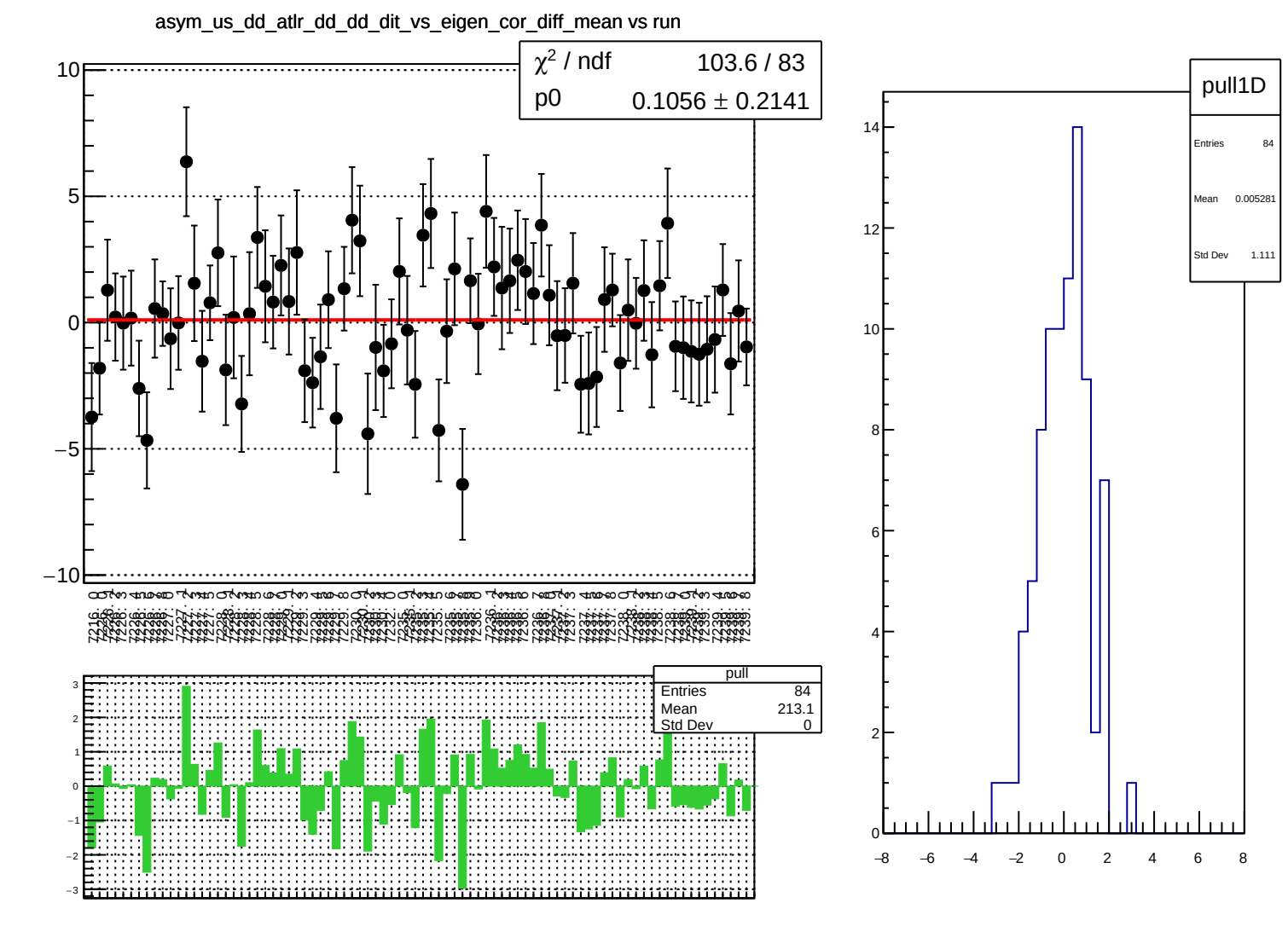

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 101.7 / 83
p0 −9.692e−15 ± 1.137e−14
pull
Entries 84
Mean 5.771
Std Dev 0
pull1D
Entries 84
Mean −0.137
Std Dev 1.092

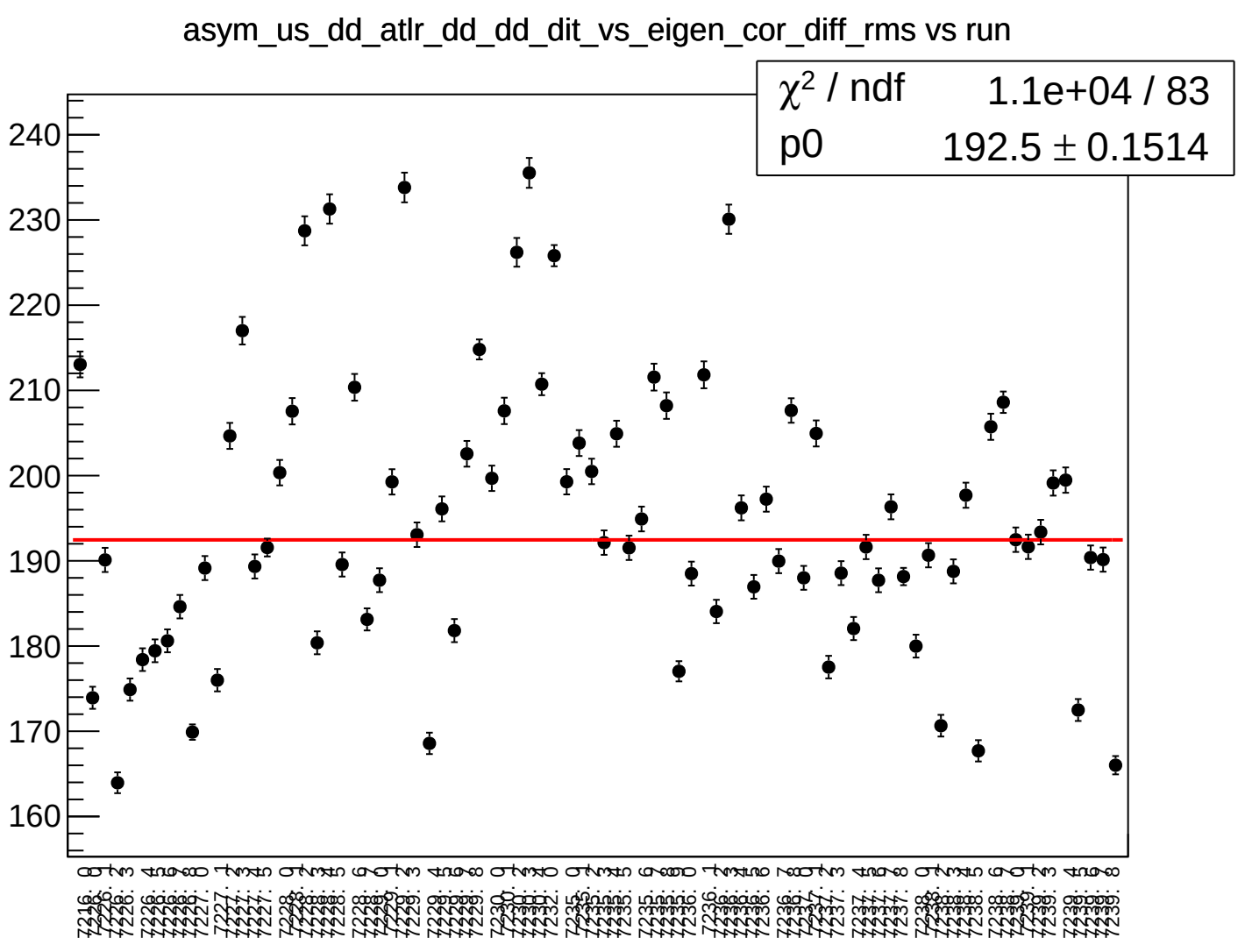

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.205e+06 / 83
p0 5.219e−12 ± 8.039e−15
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

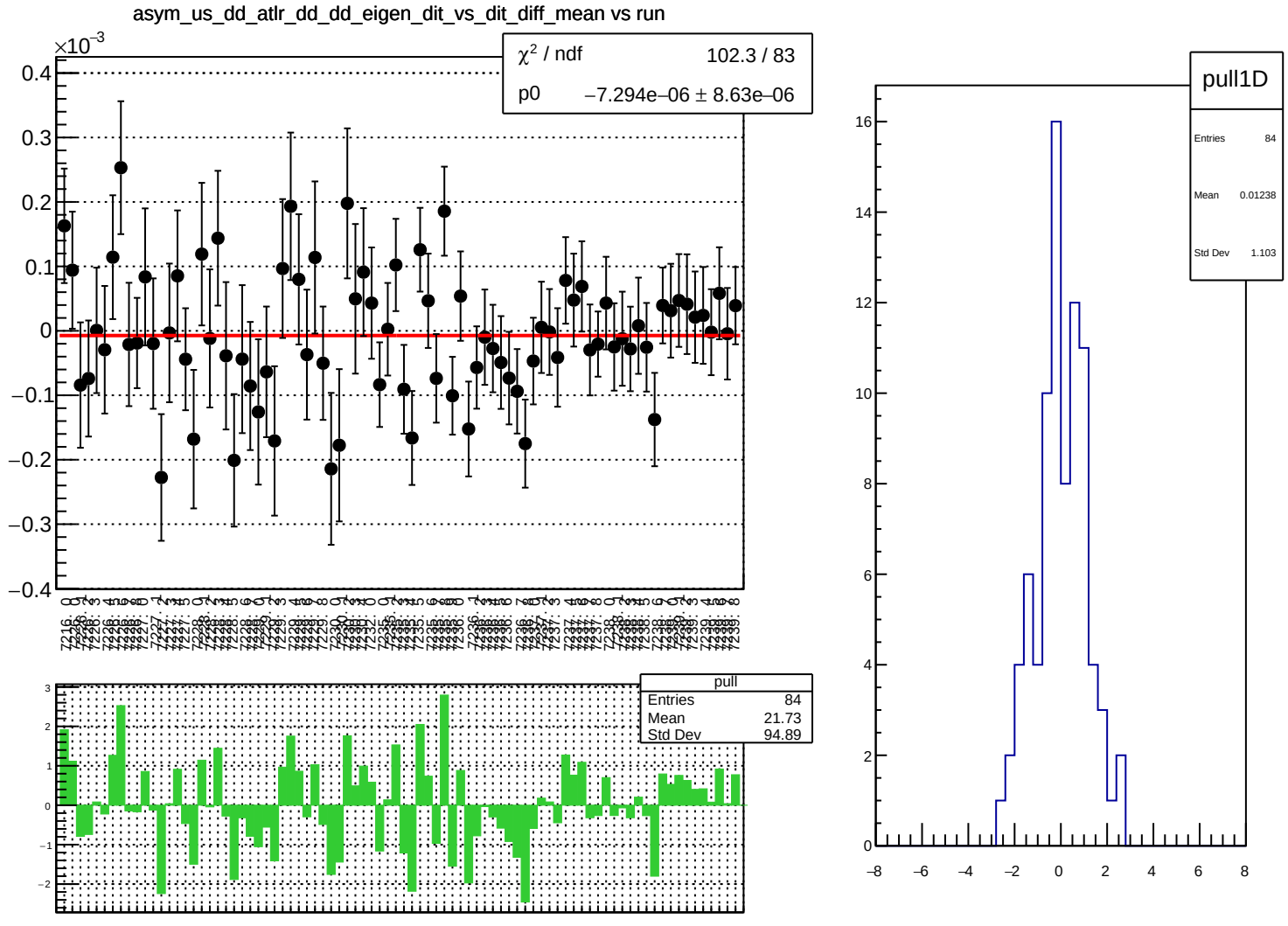

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 103.6 / 83
p0 0.1056 ± 0.2141
pull
Entries 84
Mean 213.1
Std Dev 0

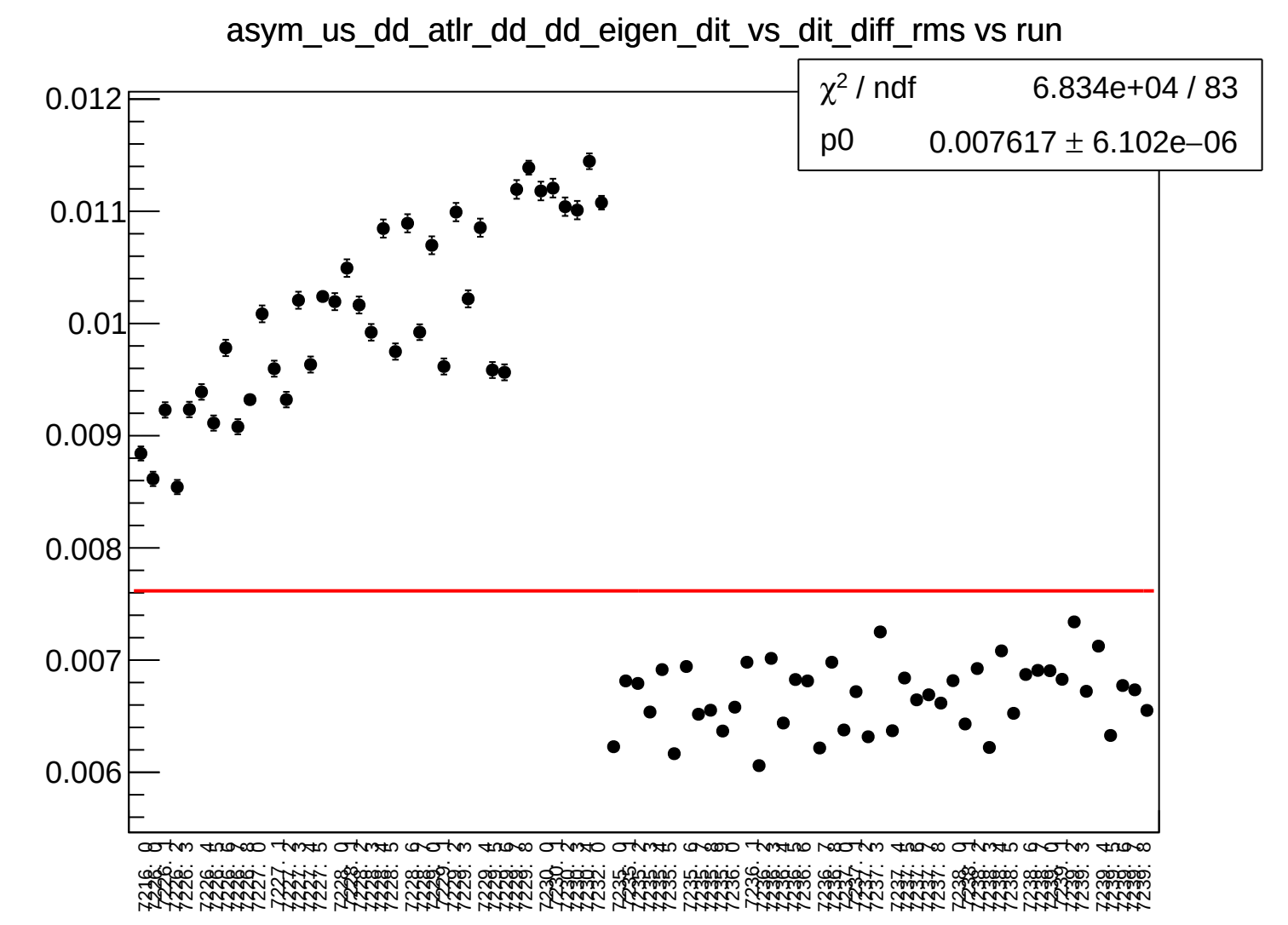

pull1D
Entries 84
Mean 0.005281
Std Dev 1.111

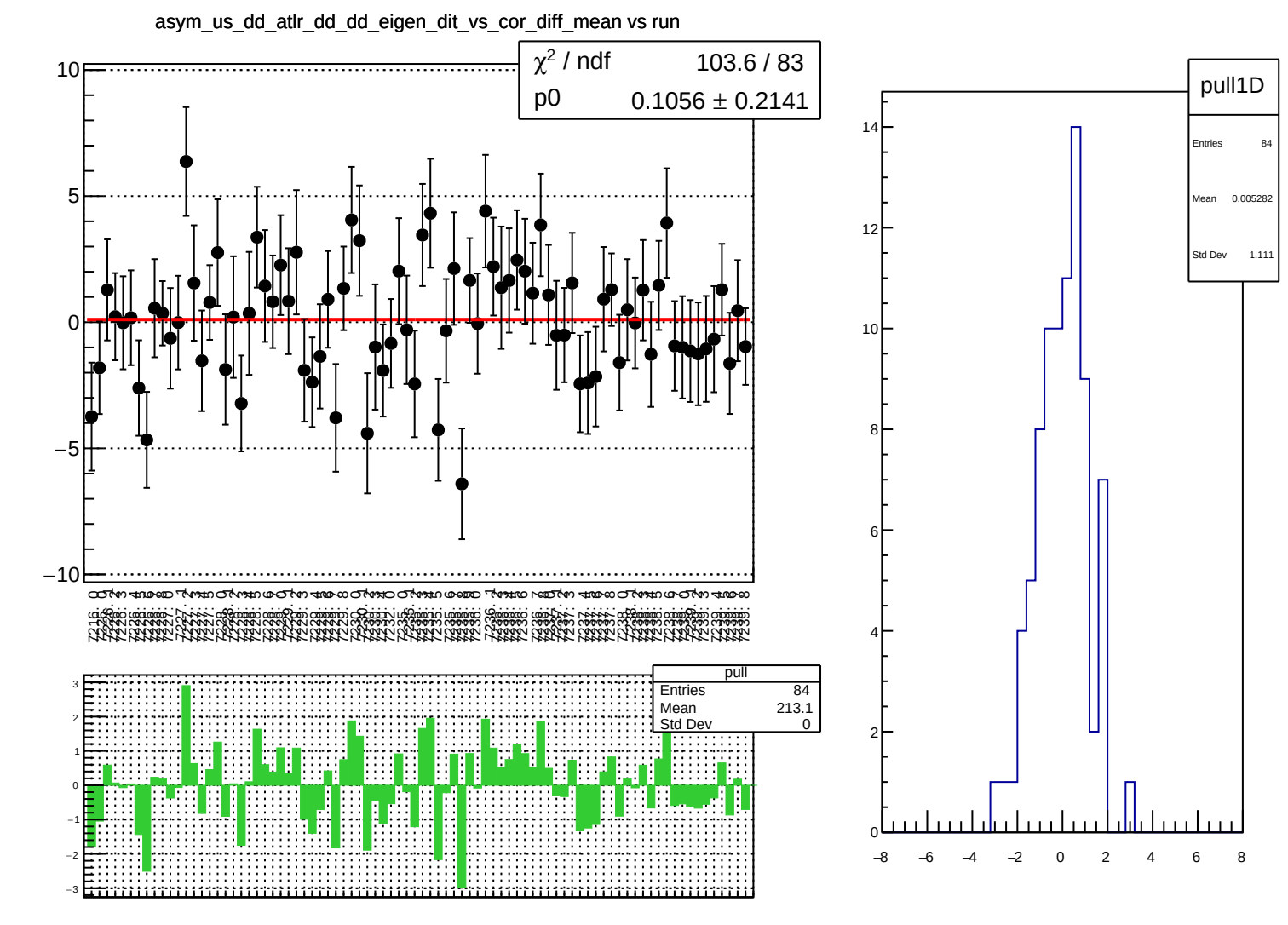

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.1e+04 / 83
p0 192.5 ± 0.1514
240
230
220
210
200
190
180
170
160

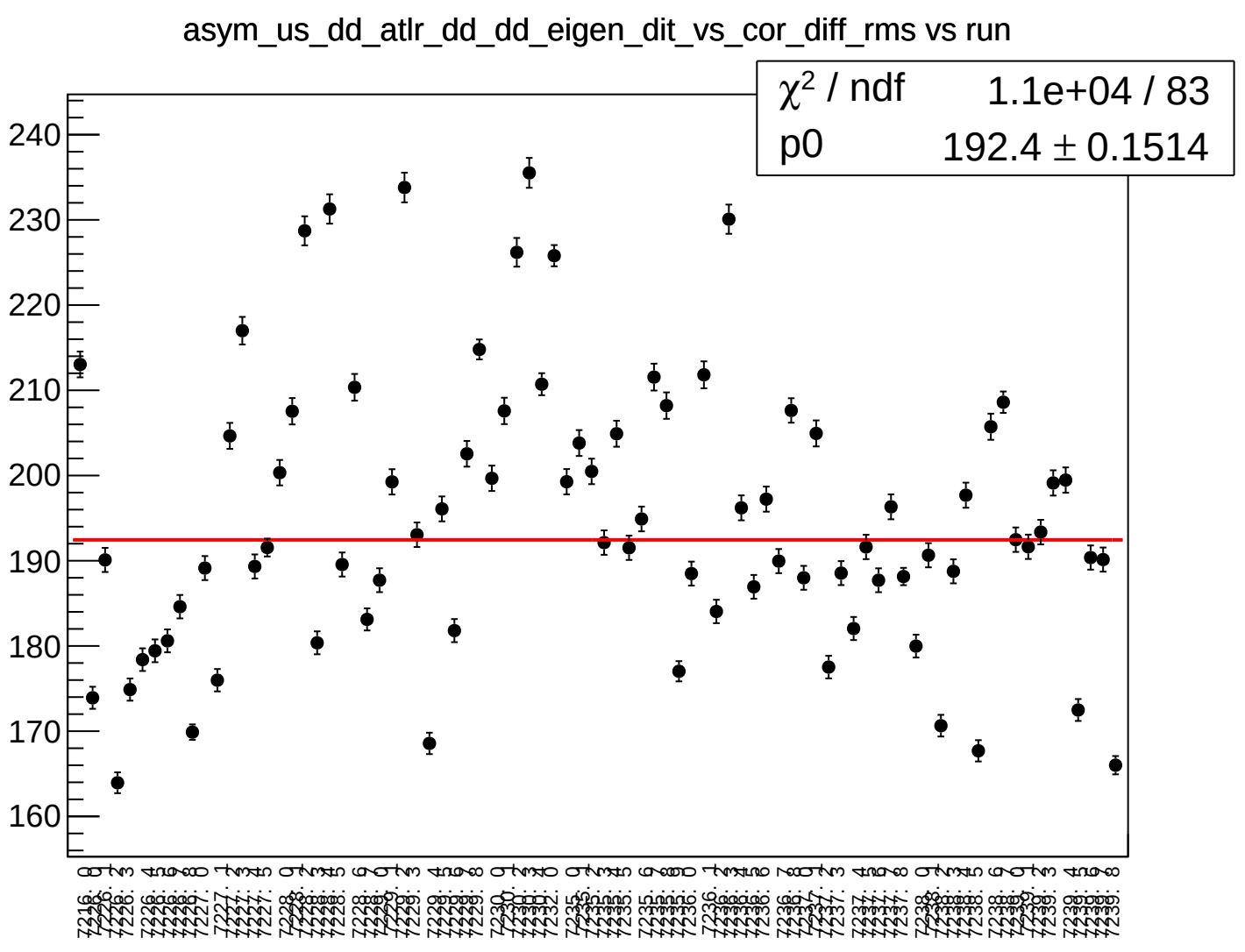

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.6 / 83
p0 0.1056 ± 0.2141
pull
Entries 84
Mean 213.1
Std Dev 0
pull1D
Entries 84
Mean 0.005281
Std Dev 1.111

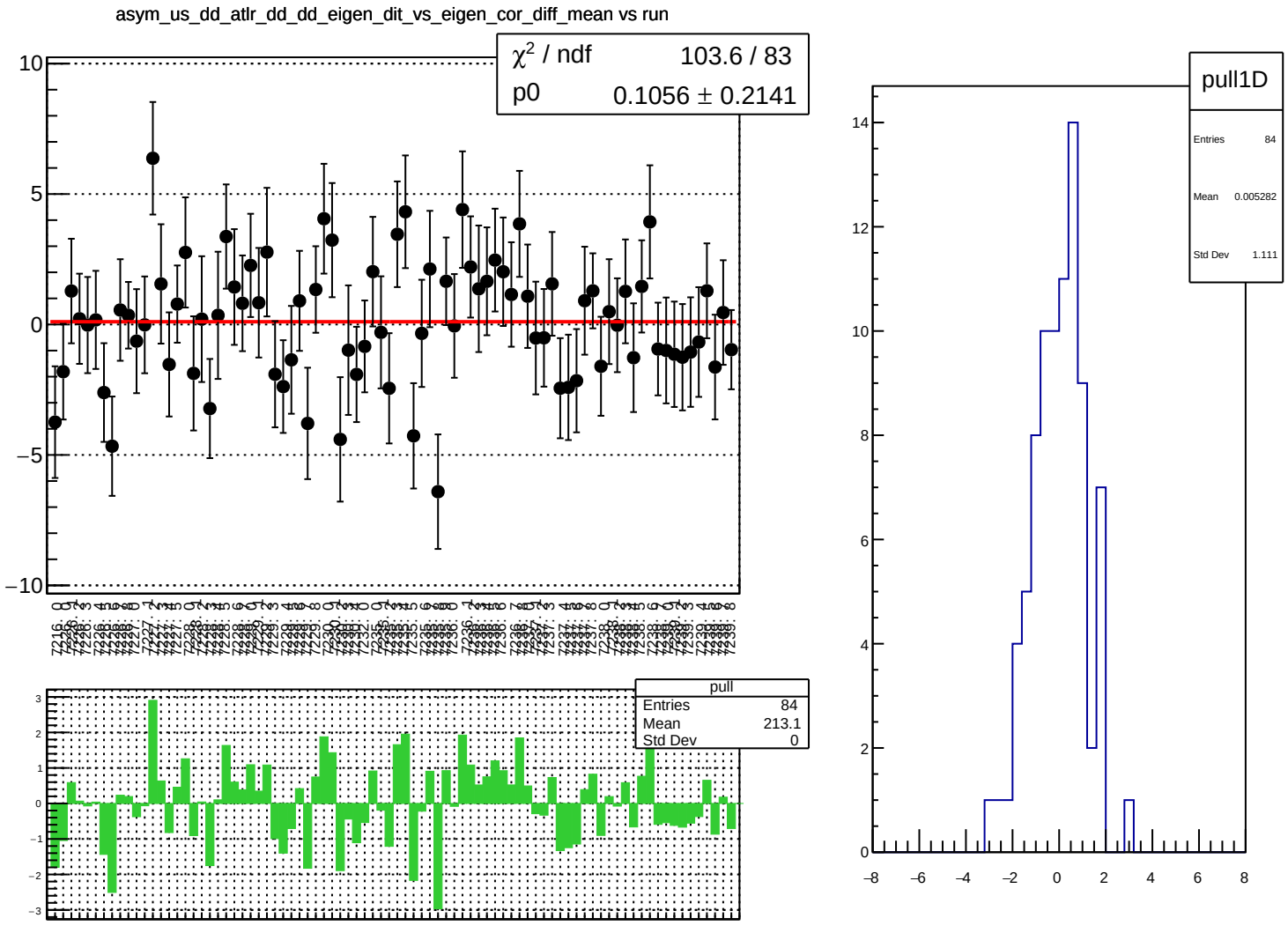

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.1e+04 / 83
p0 192.5 ± 0.1514
240
230
220
210
200
190
180
170
160

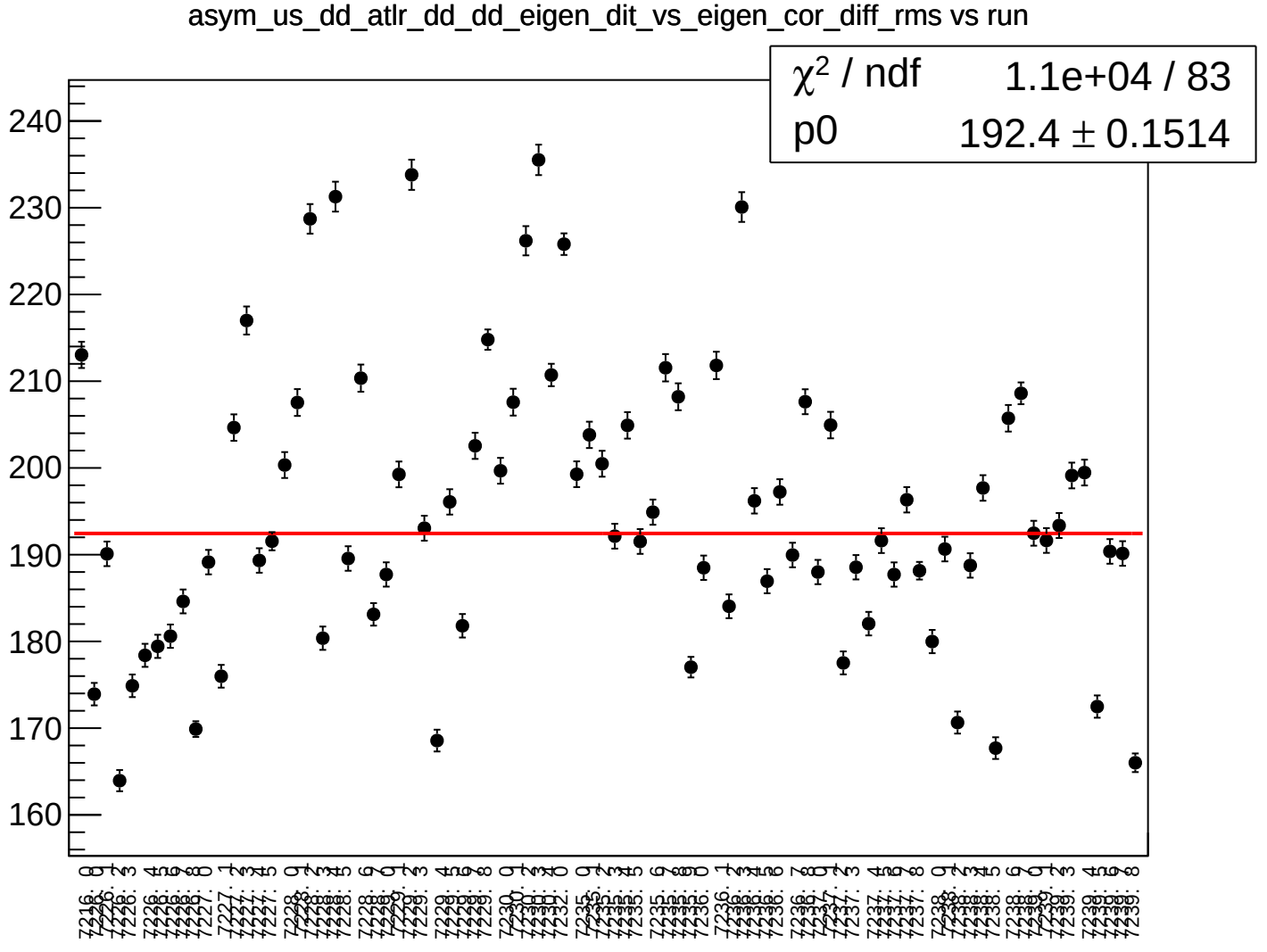

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 102.3 / 83
p0 −7.294e−06 ± 8.63e−06
pull
Entries 84
Mean 21.73
Std Dev 94.89
pull1D
Entries 84
Mean 0.01238
Std Dev 1.103

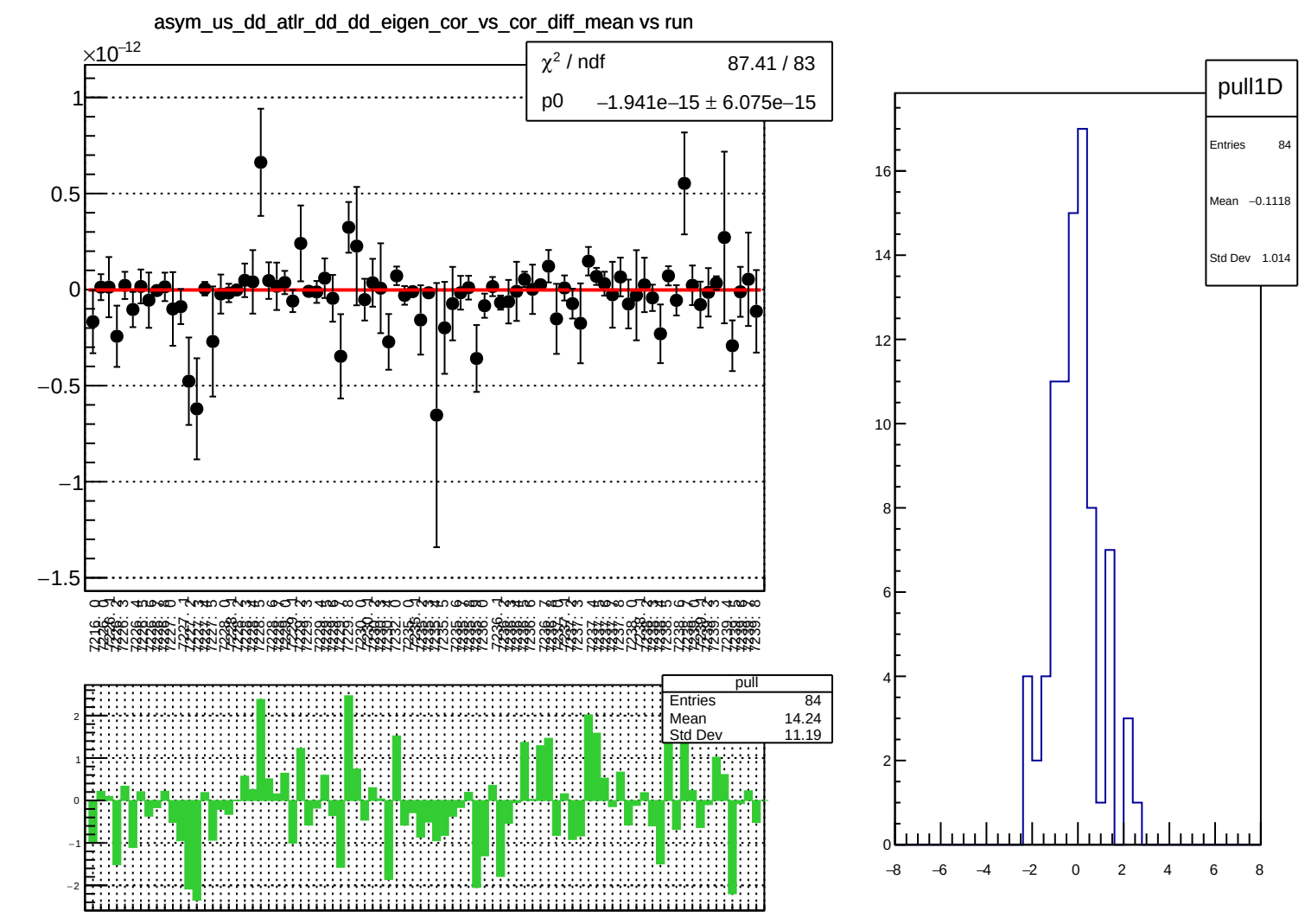

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.834e+04 / 83
p0 0.007617 ± 6.102e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006

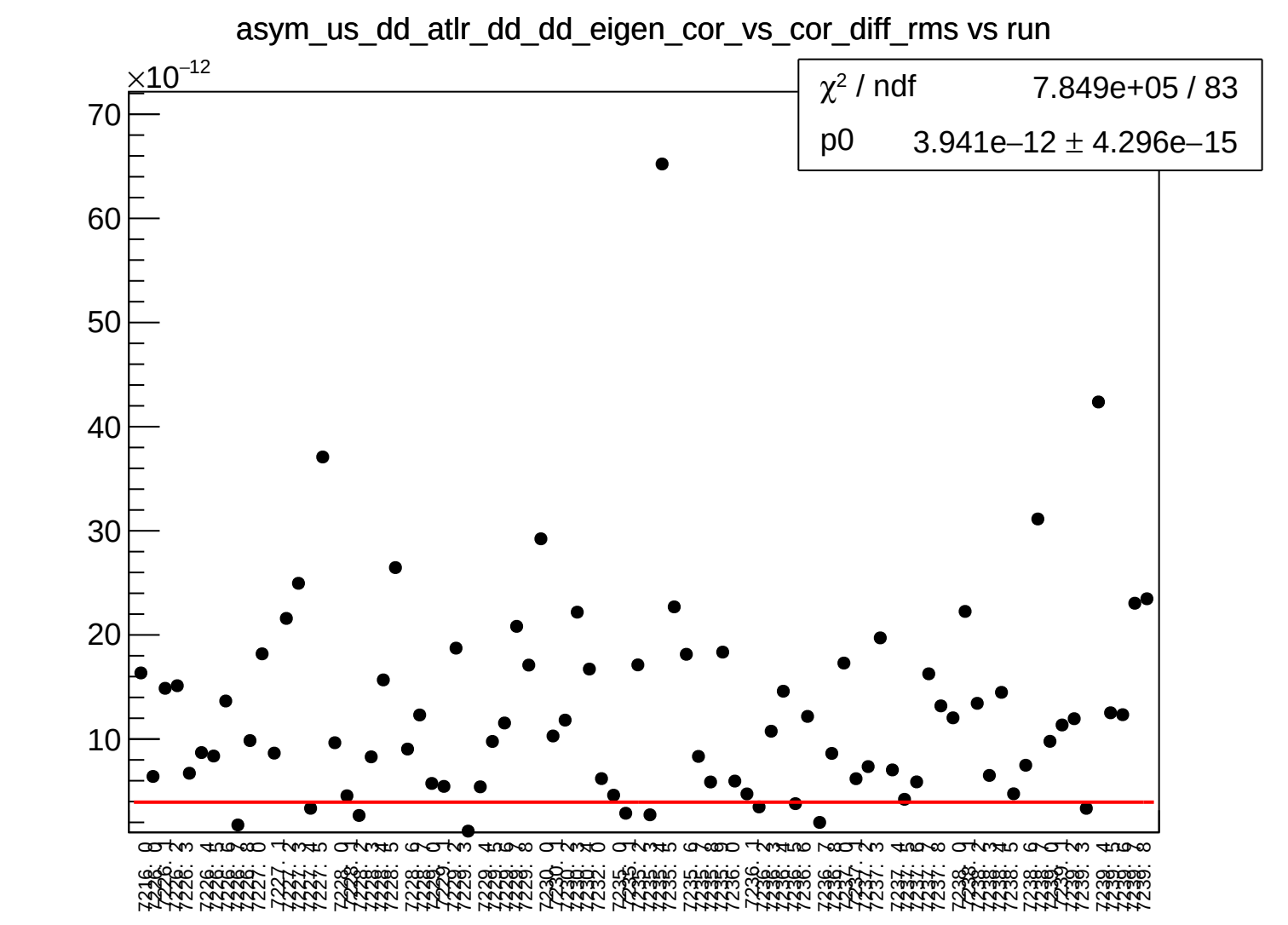

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103.6 / 83
p0 0.1056 ± 0.2141
pull
Entries 84
Mean 213.1
Std Dev 0
pull1D
Entries 84
Mean 0.005282
Std Dev 1.111

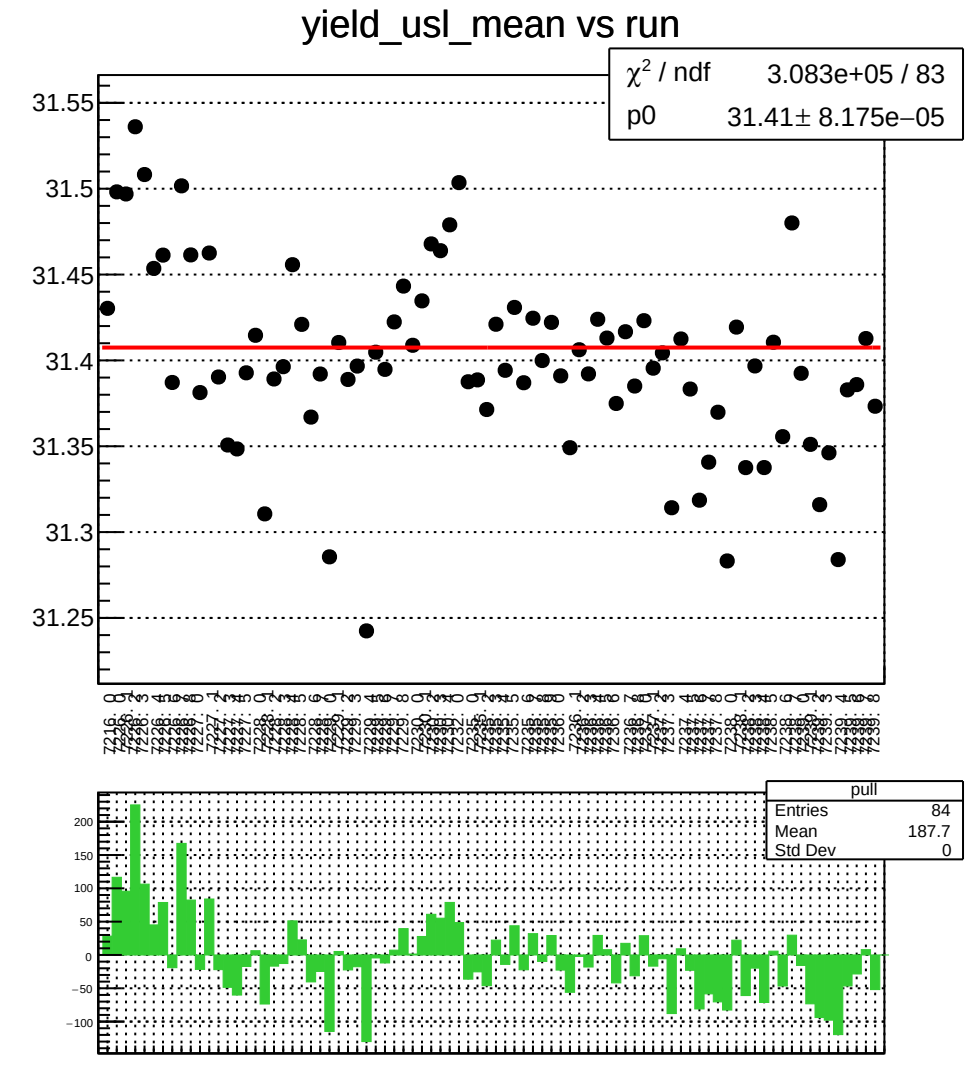

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.1e+04 / 83
p0 192.4 ± 0.1514
240
230
220
210
200
190
180
170
160

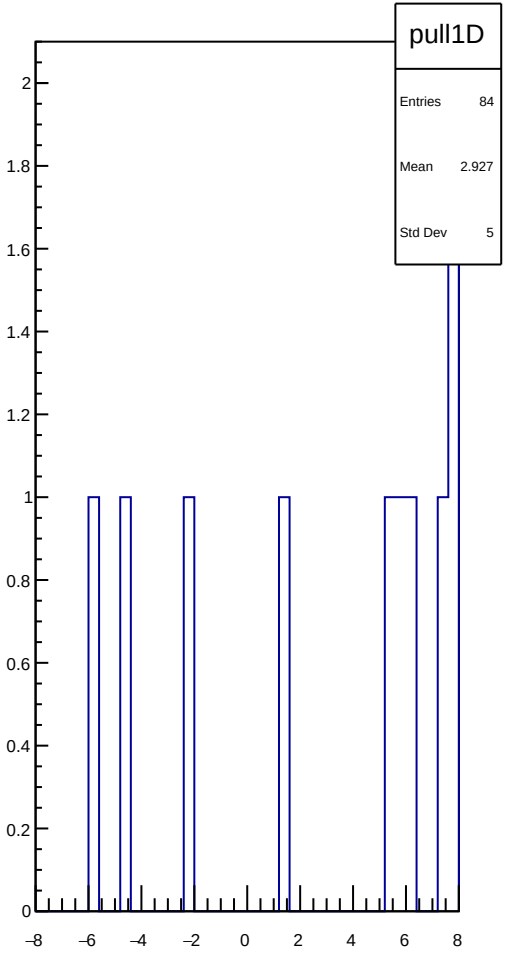

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.6 / 83
p0 0.1056 ± 0.2141
pull
Entries 84
Mean 213.1
Std Dev 0
pull1D
Entries 84
Mean 0.005282
Std Dev 1.111

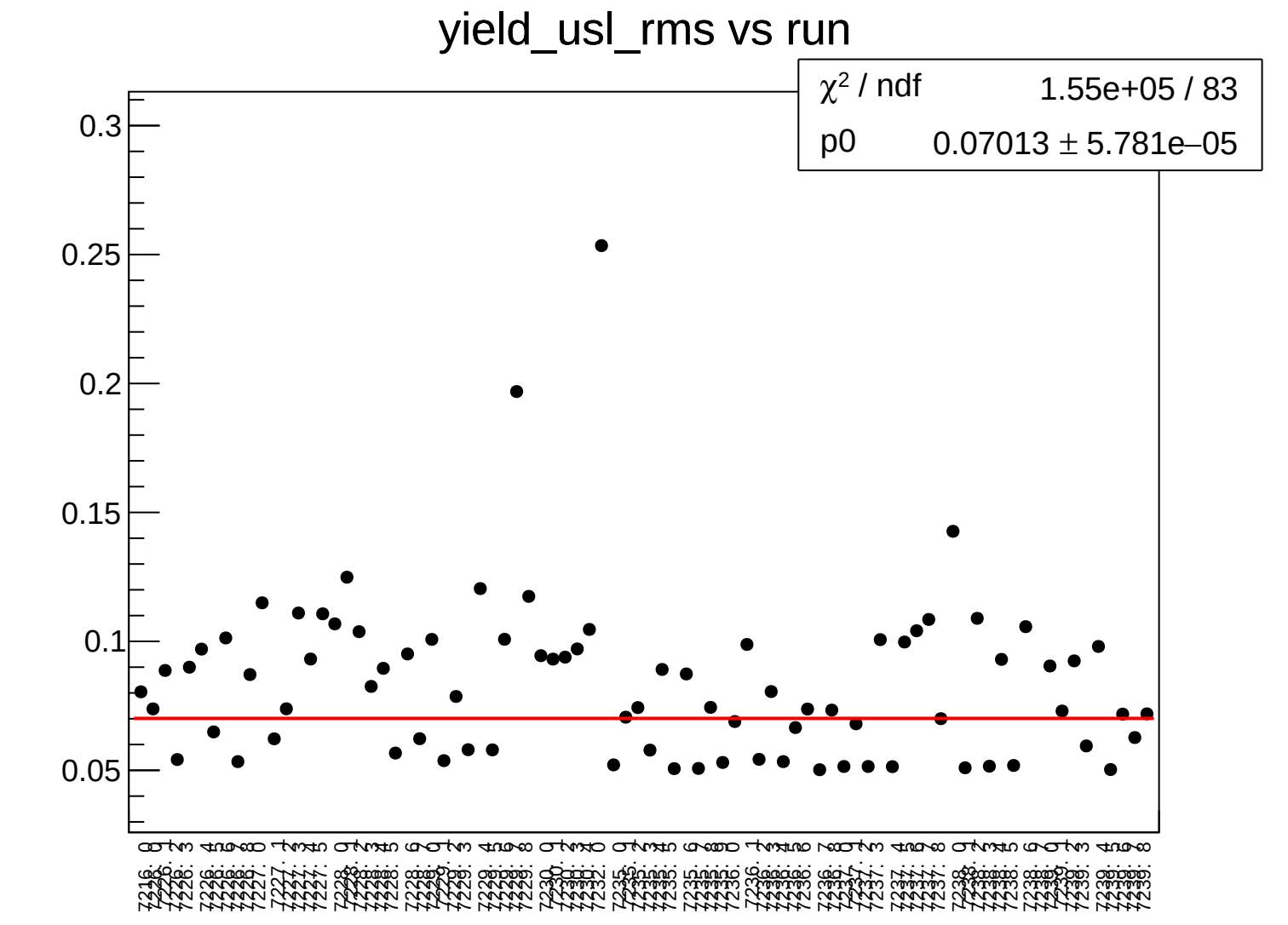

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.1e+04 / 83
p0 192.4 ± 0.1514
240
230
220
210
200
190
180
170
160

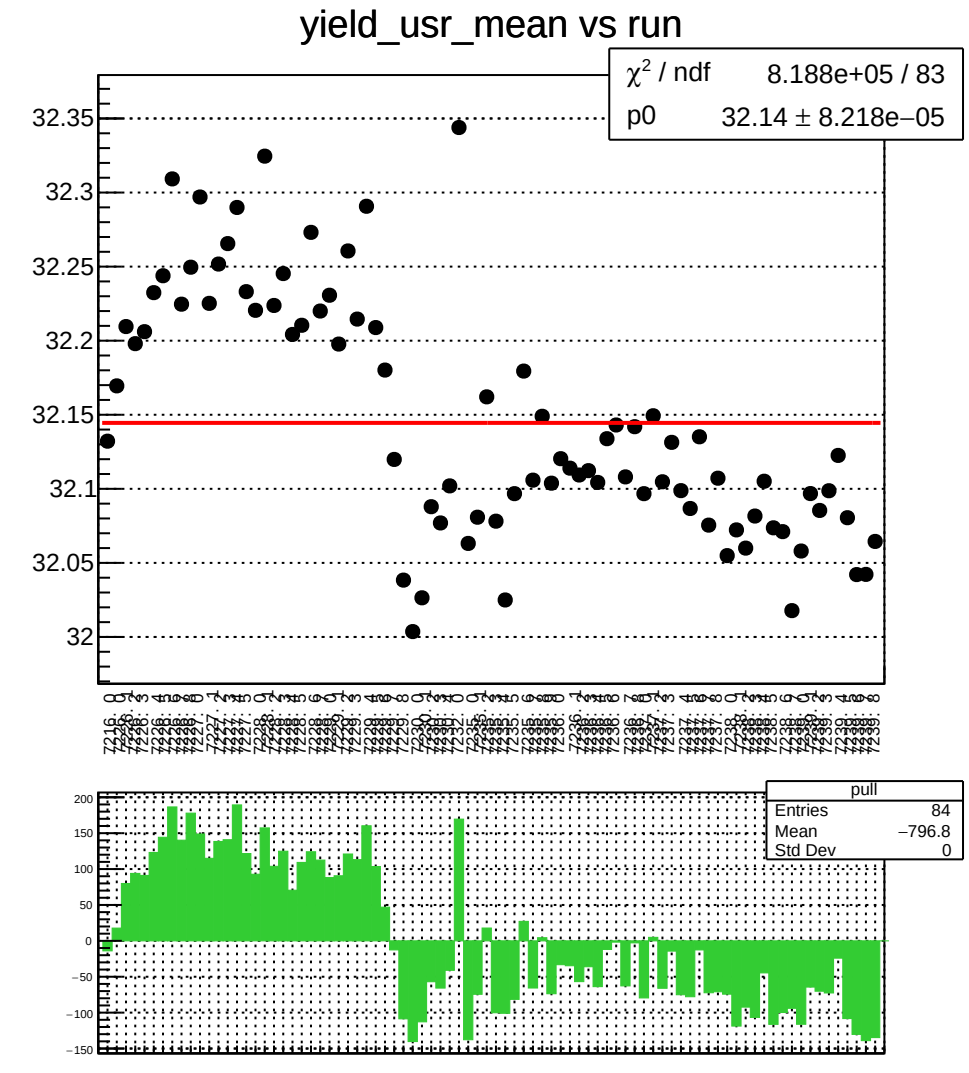

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 87.41 / 83
p0 −1.941e−15 ± 6.075e−15
pull
Entries 84
Mean 14.24
Std Dev 11.19
pull1D
Entries 84
Mean −0.1118
Std Dev 1.014

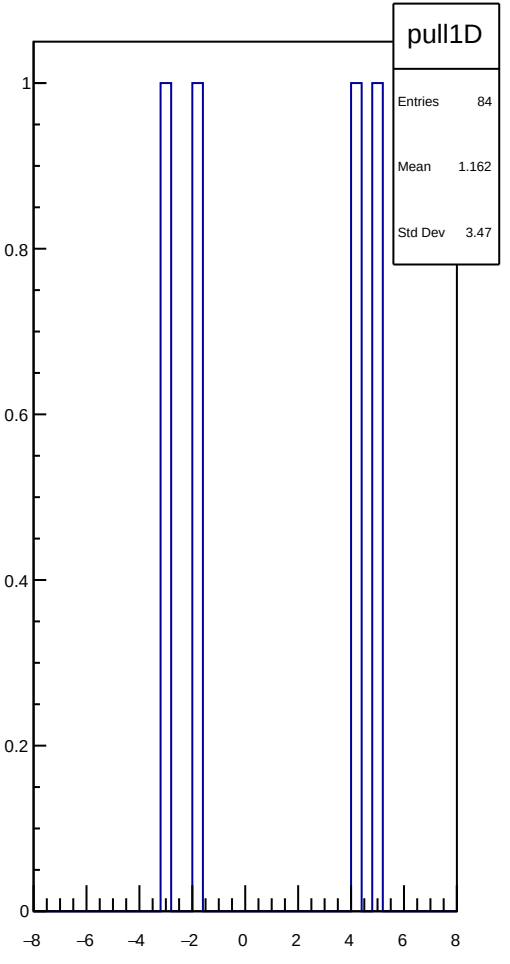

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
70
60
50
40
30
20
10
χ² / ndf 7.849e+05 / 83
p0 3.941e−12 ± 4.296e−15

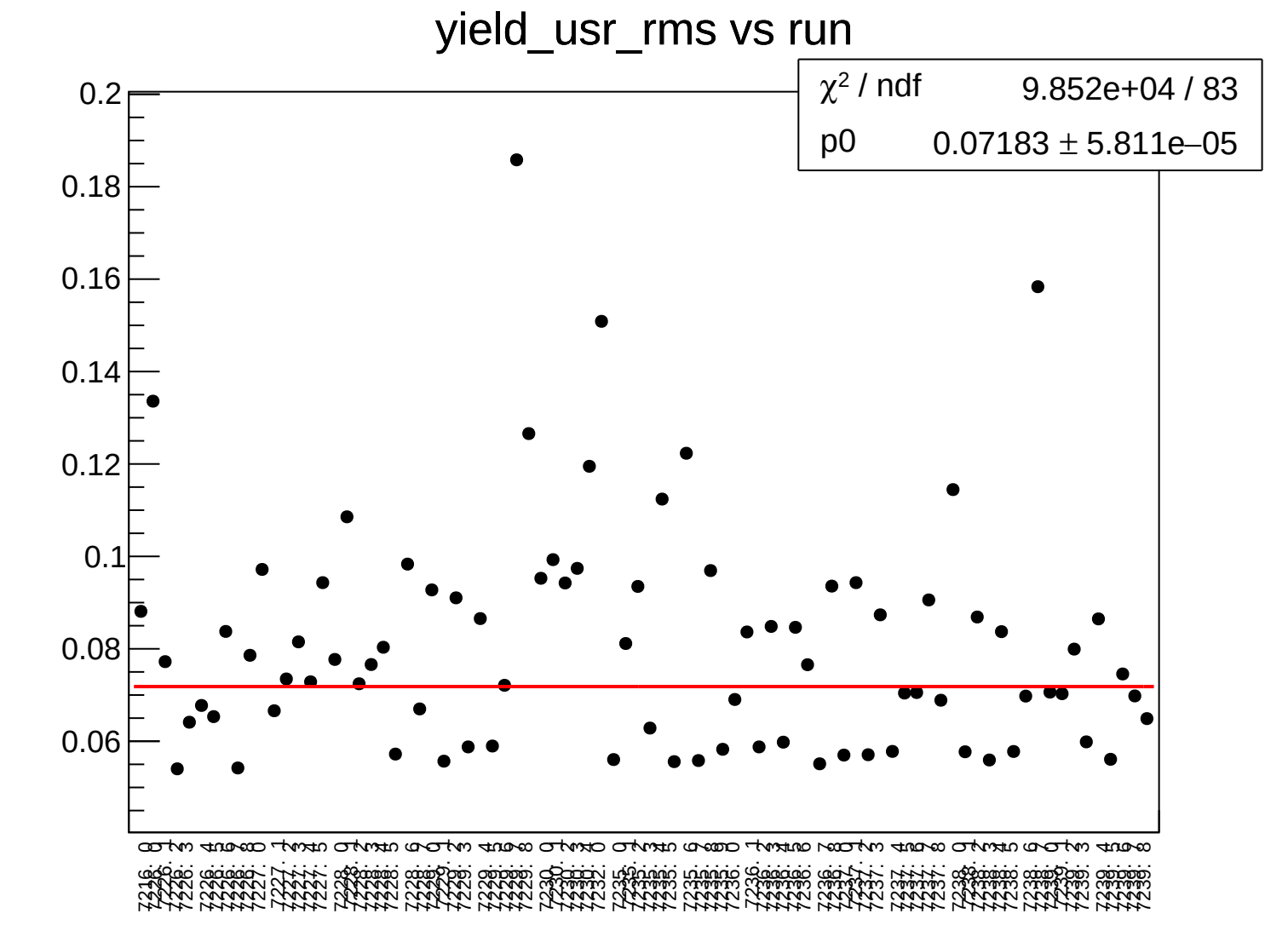

yield_usl_mean vs run
χ² / ndf 3.083e+05 / 83
p0 31.41± 8.175e−05
31.55
31.5
31.45
31.4
31.35
31.3
31.25
pull
Entries 84
Mean 187.7
Std Dev 0
200
150
100
50
0
−50
−100

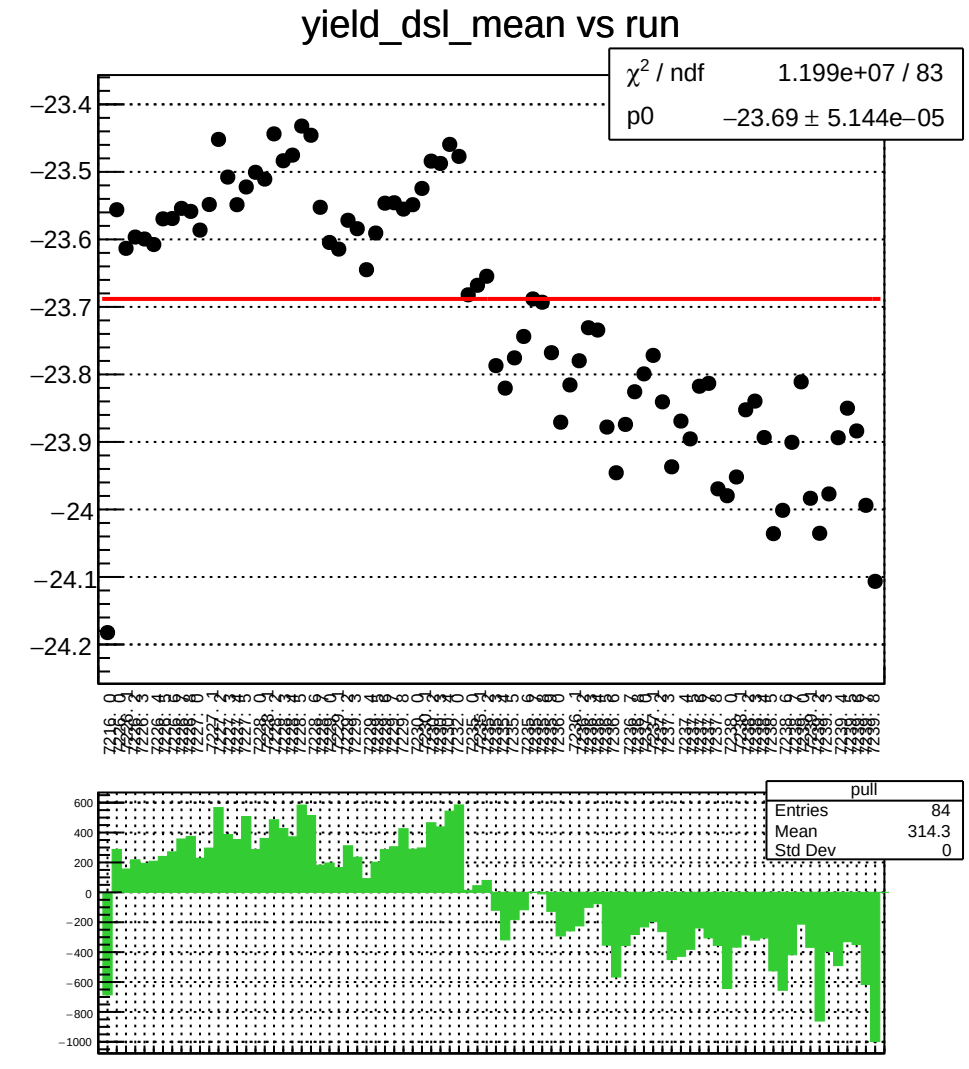

pull1D
Entries 84
Mean 2.927
Std Dev 5
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

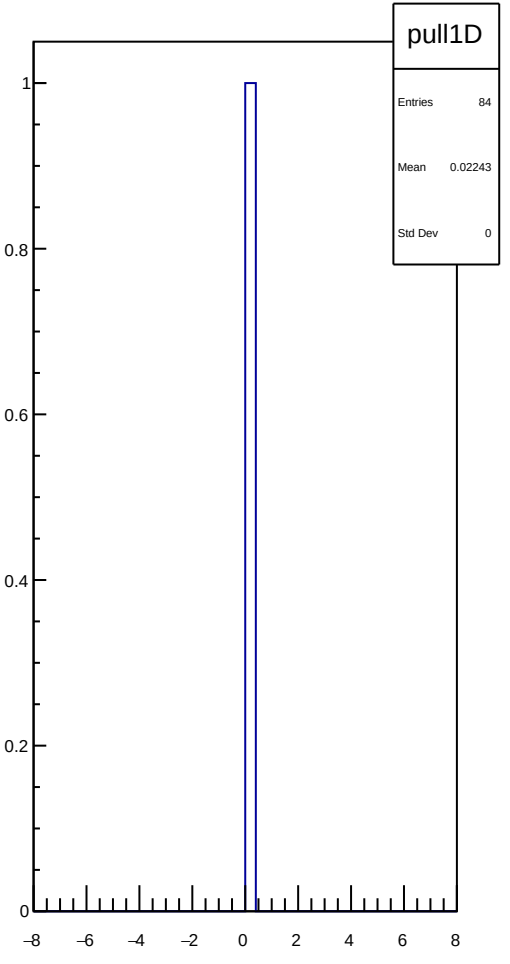

yield_usl_rms vs run
χ² / ndf 1.55e+05 / 83
p0 0.07013 ± 5.781e–05
0.3
0.25
0.2
0.15
0.1
0.05

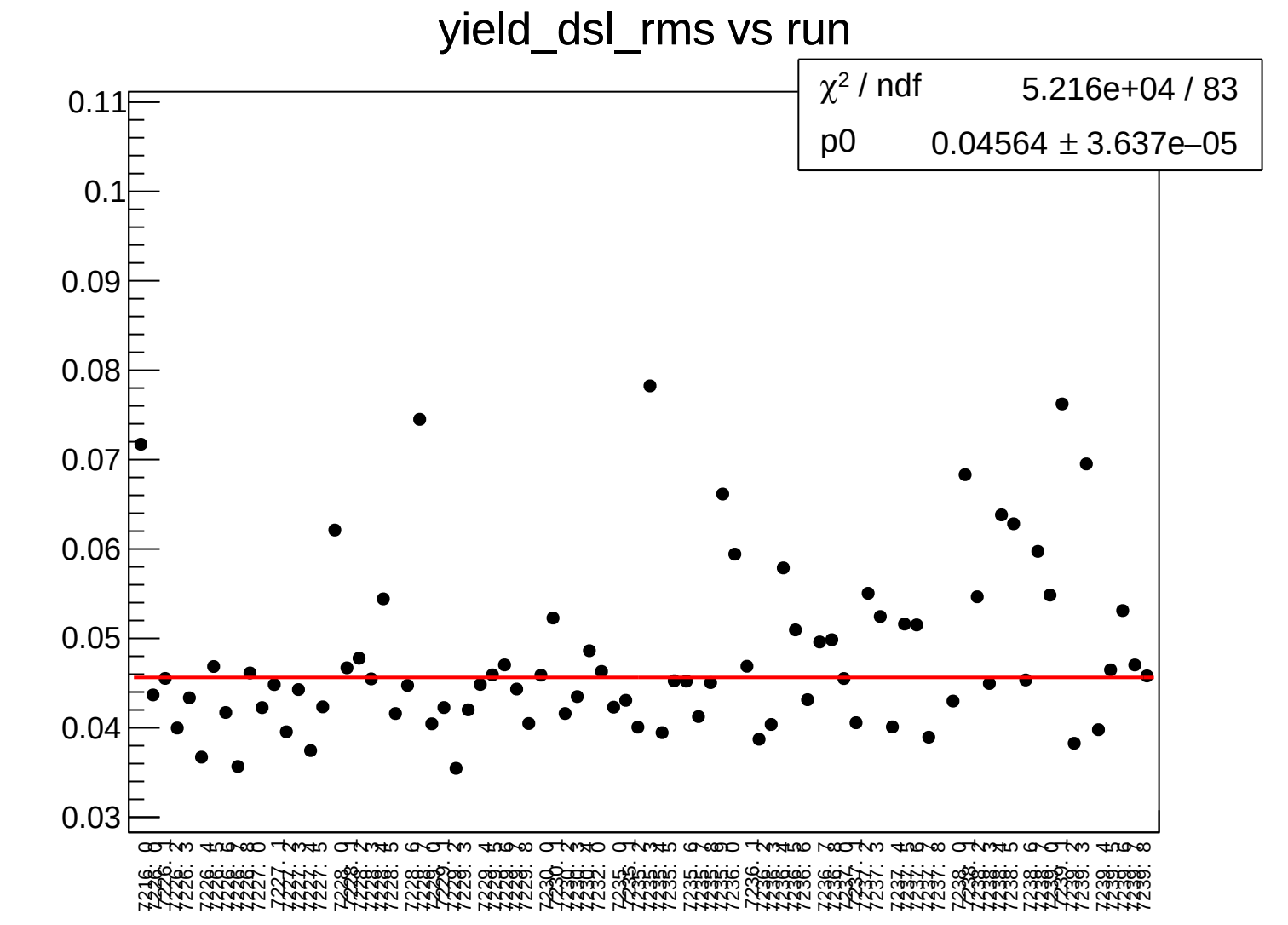

yield_usr_mean vs run
χ² / ndf 8.188e+05 / 83
p0 32.14 ± 8.218e−05
32.35
32.3
32.25
32.2
32.15
32.1
32.05
32
pull
Entries 84
Mean −796.8
Std Dev 0
200
150
100
50
0
−50
−100
−150

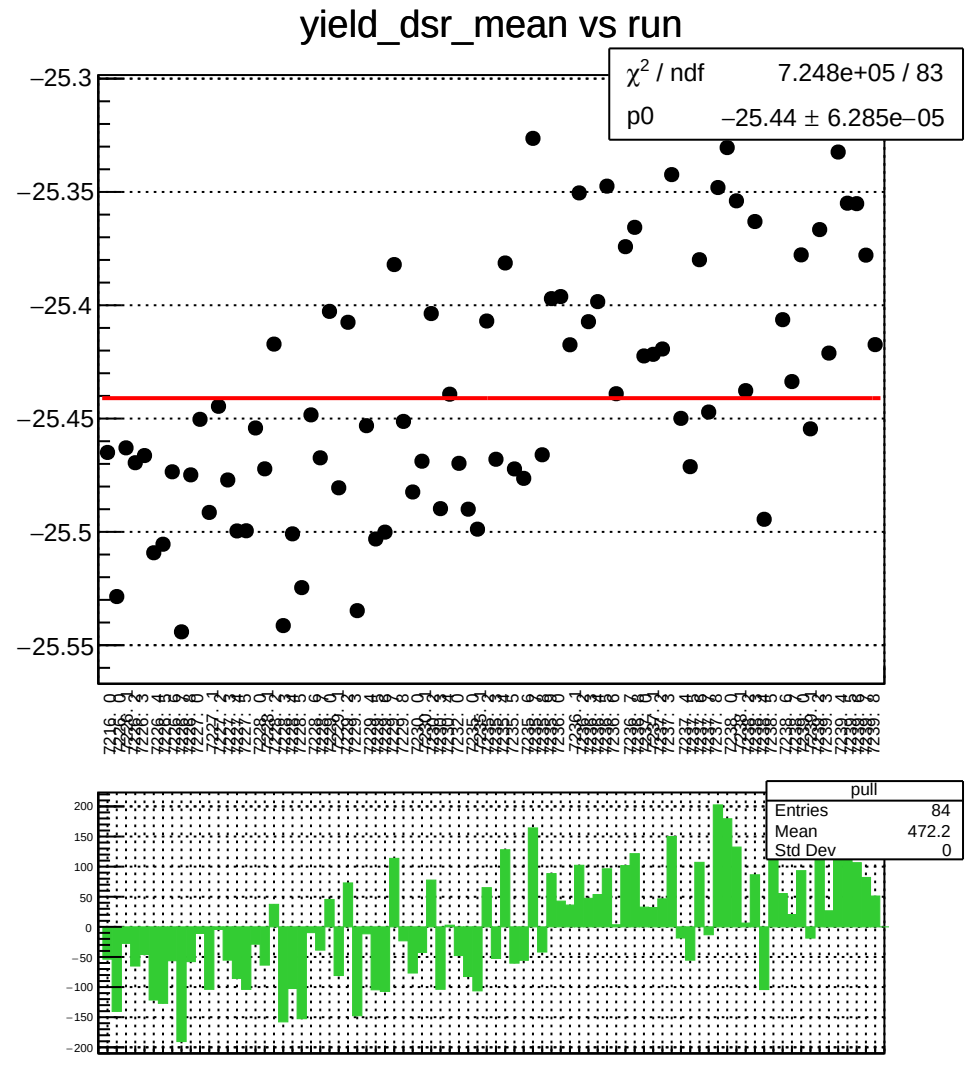

pull1D
Entries 84
Mean 1.162
Std Dev 3.47
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

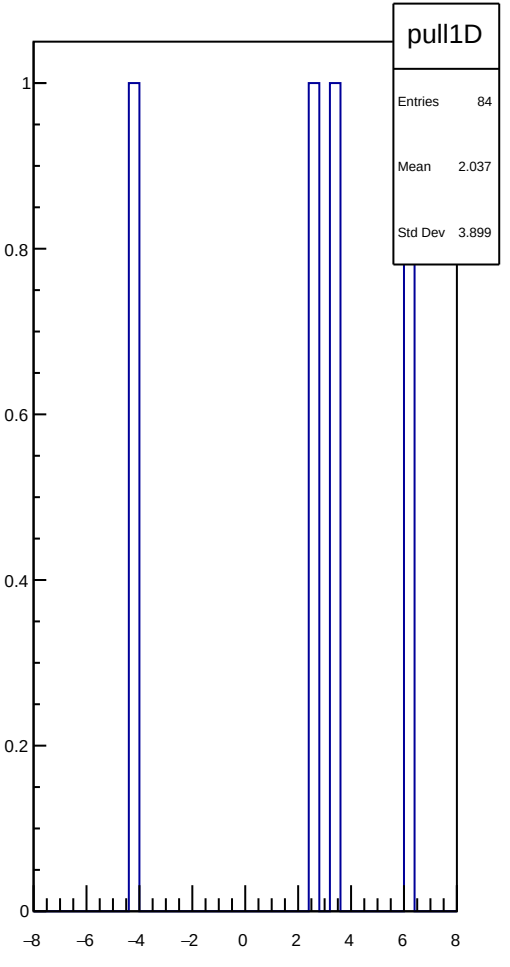

yield_usr_rms vs run
χ² / ndf 9.852e+04 / 83
p0 0.07183 ± 5.811e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06

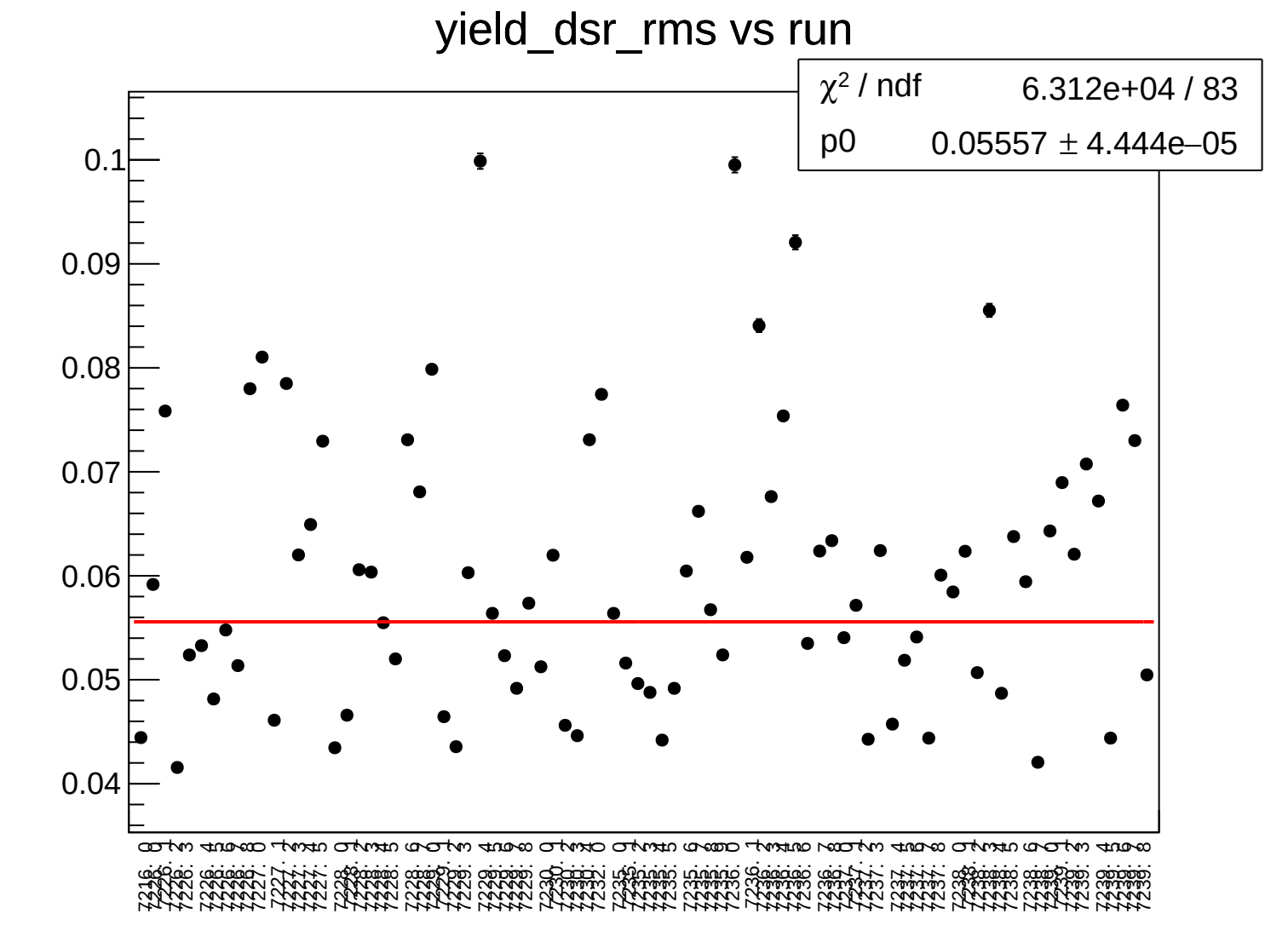

yield_dsl_mean vs run
χ² / ndf 1.199e+07 / 83
p0 −23.69 ± 5.144e−05
−23.4
−23.5
−23.6
−23.7
−23.8
−23.9
−24
−24.1
−24.2
pull
Entries 84
Mean 314.3
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000

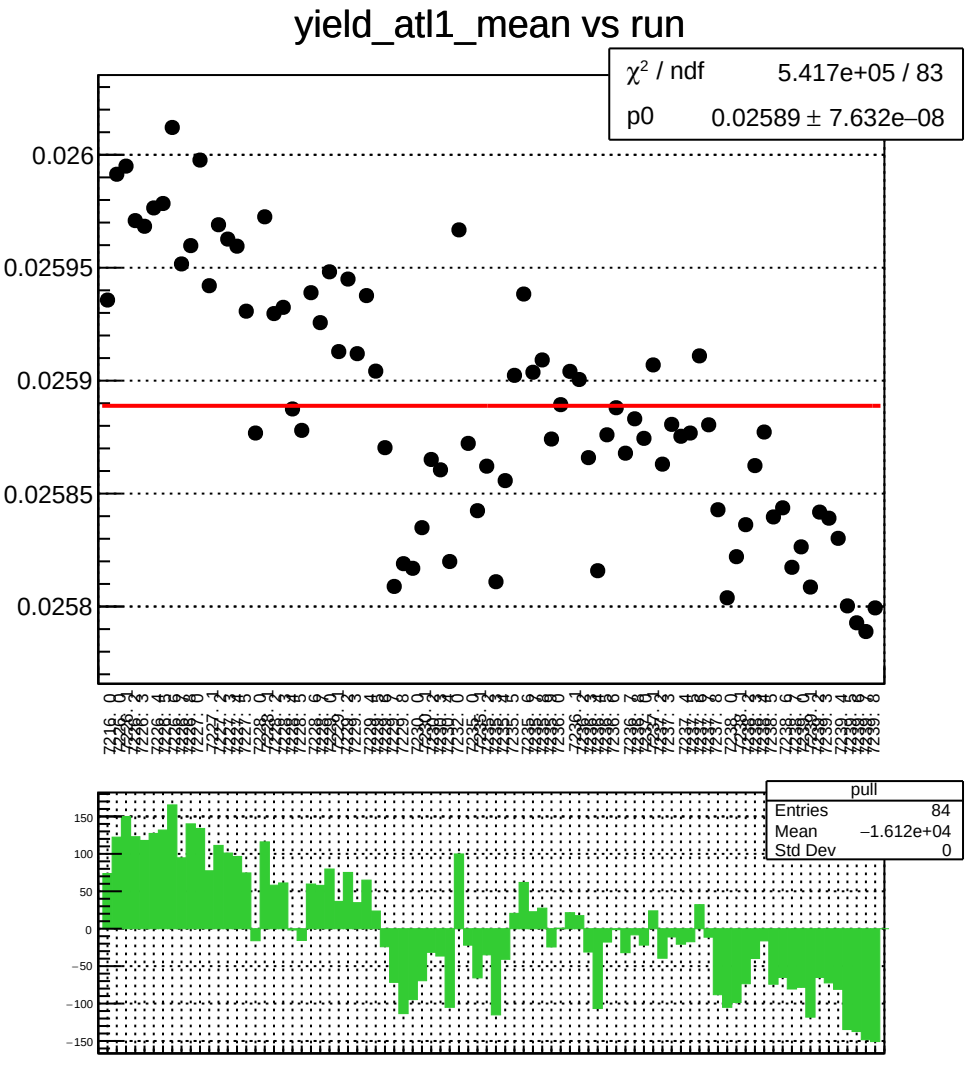

pull1D
Entries 84
Mean 0.02243
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

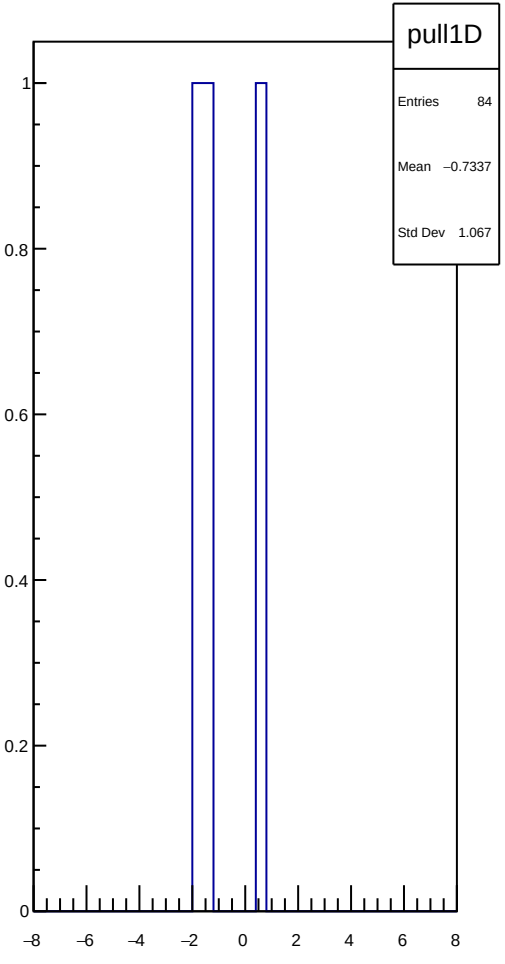

yield_dsl_rms vs run
χ² / ndf 5.216e+04 / 83
p0 0.04564 ± 3.637e–05
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03

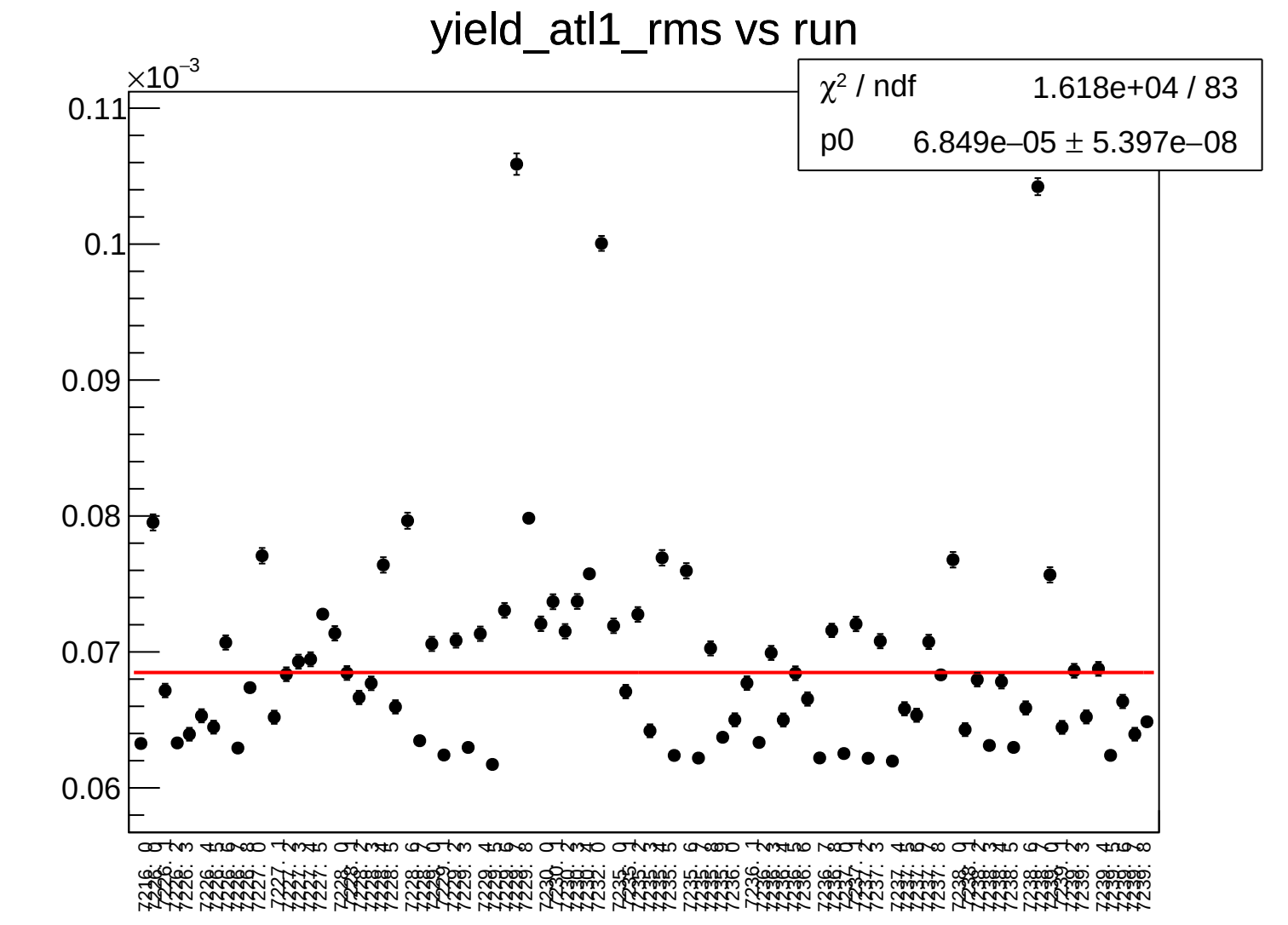

yield_dsr_mean vs run
χ² / ndf 7.248e+05 / 83
p0 −25.44 ± 6.285e−05
−25.3
−25.35
−25.4
−25.45
−25.5
−25.55
pull
Entries 84
Mean 472.2
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

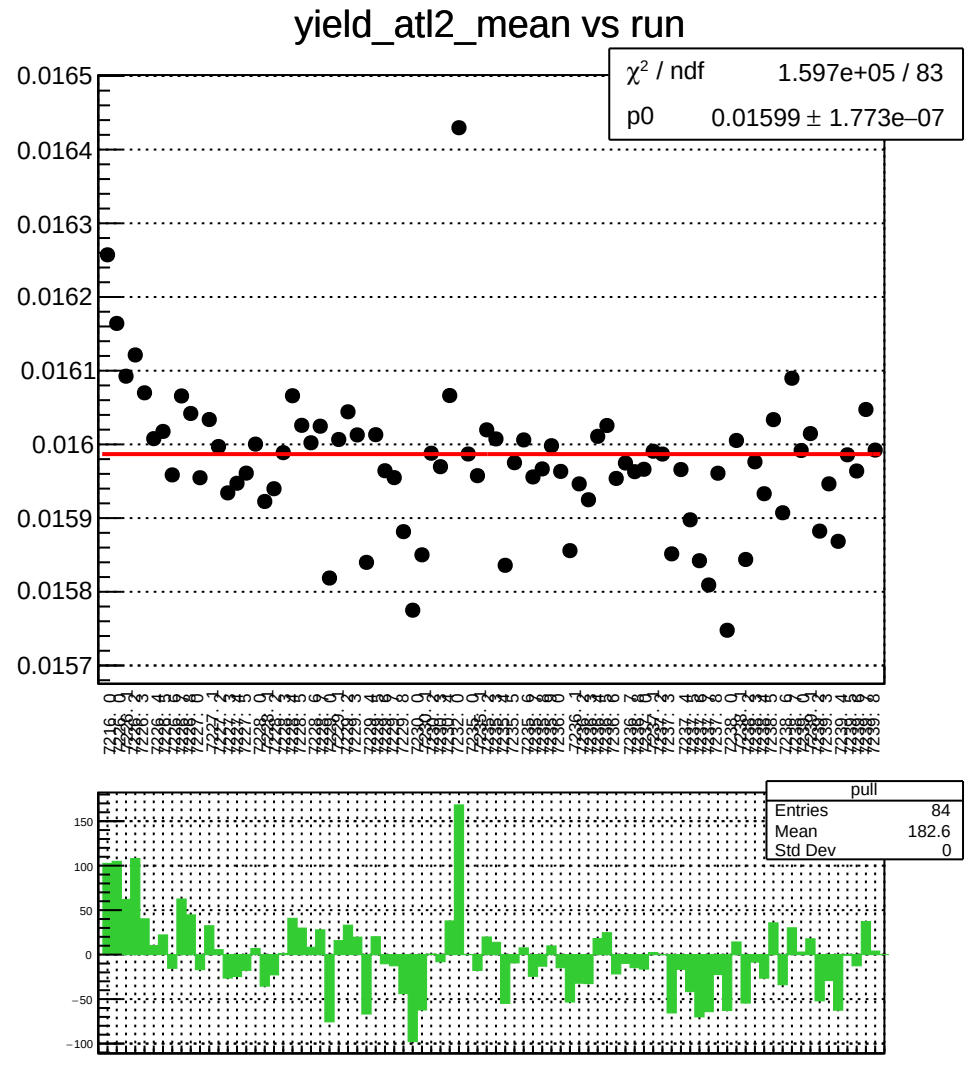

pull1D
Entries 84
Mean 2.037
Std Dev 3.899
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

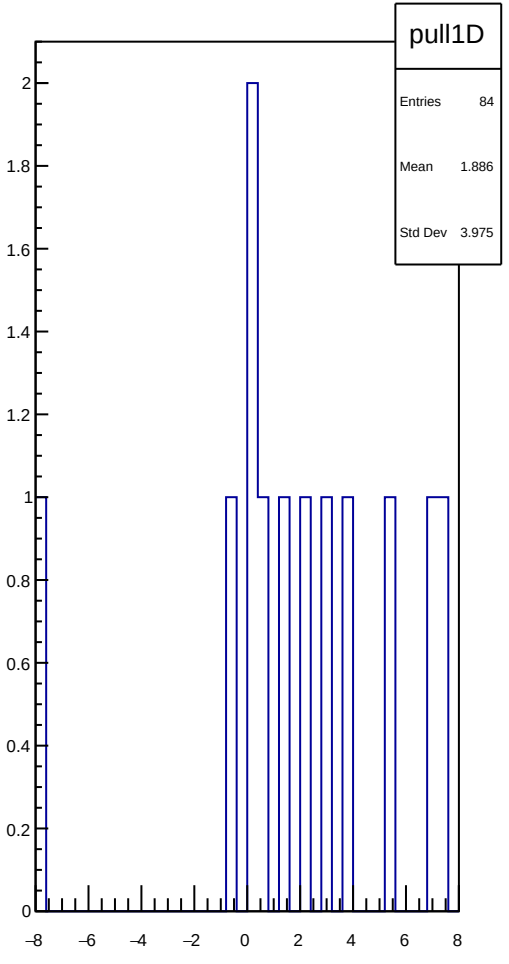

yield_dsr_rms vs run
χ^2 / ndf 6.312e+04 / 83
p0 0.05557 ± 4.444e−05
0.1
0.09
0.08
0.07
0.06
0.05
0.04

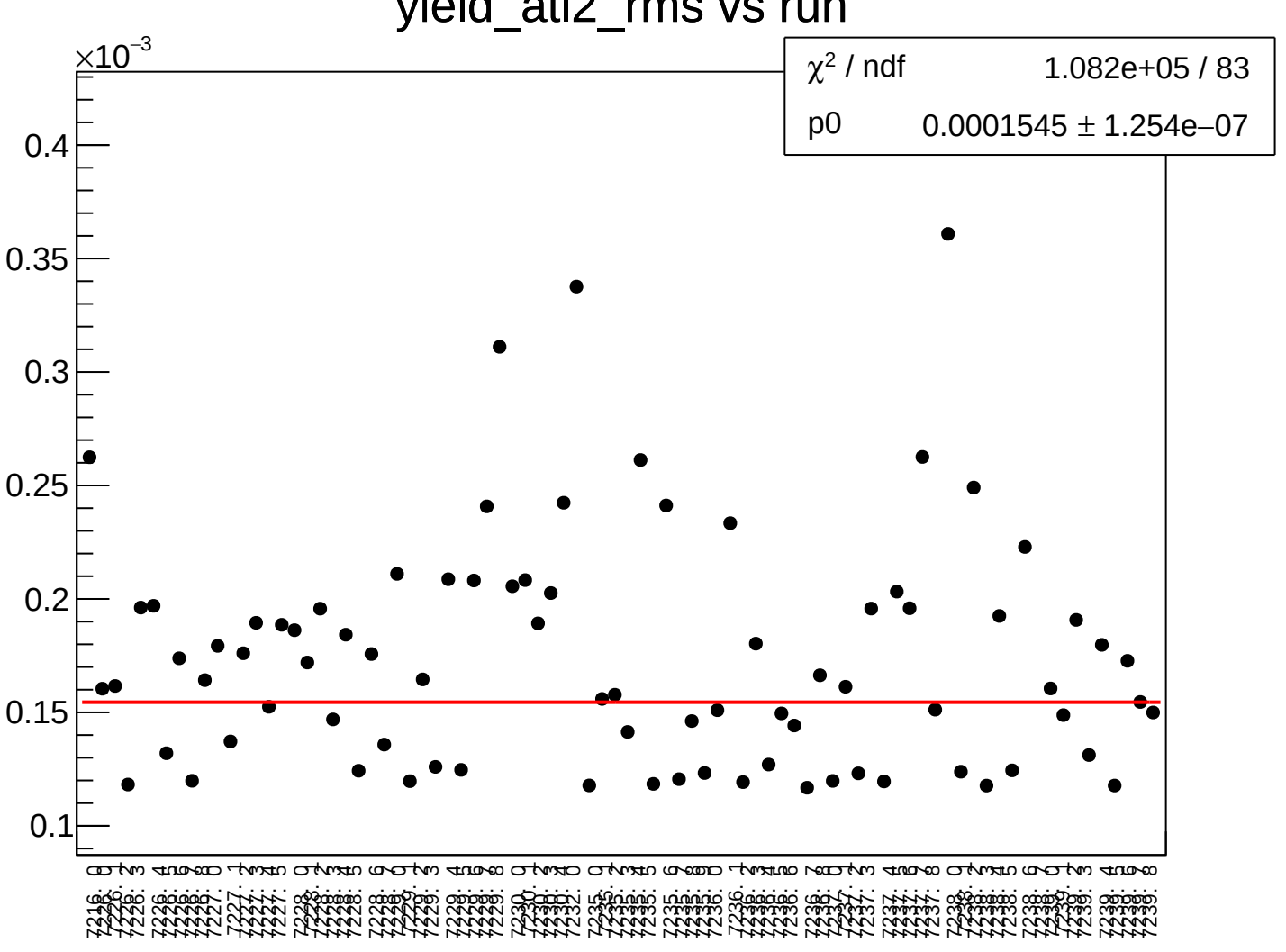

yield_atl1_mean vs run
χ² / ndf 5.417e+05 / 83
p0 0.02589 ± 7.632e−08
0.026
0.02595
0.0259
0.02585
0.0258
pull
Entries 84
Mean −1.612e+04
Std Dev 0
150
100
50
0
−50
−100
−150

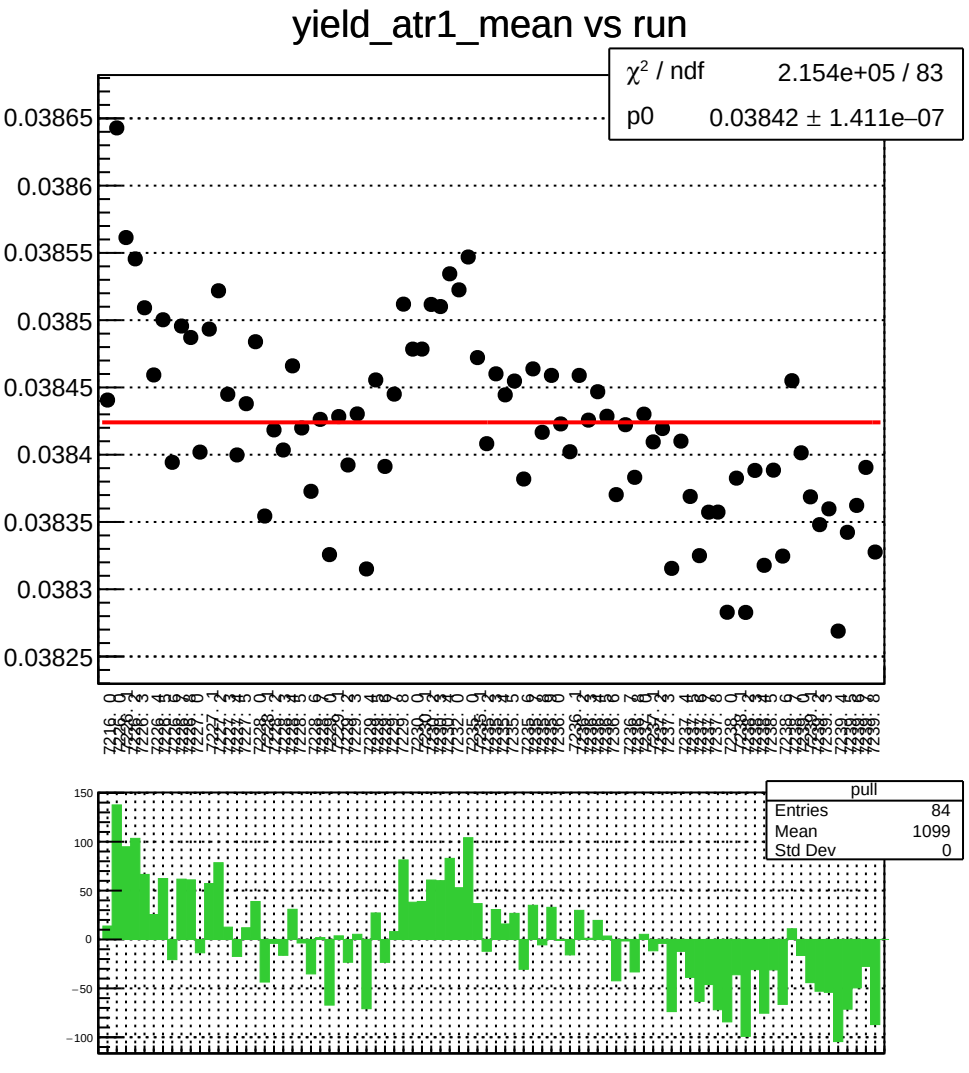

pull1D
Entries 84
Mean −0.7337
Std Dev 1.067
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

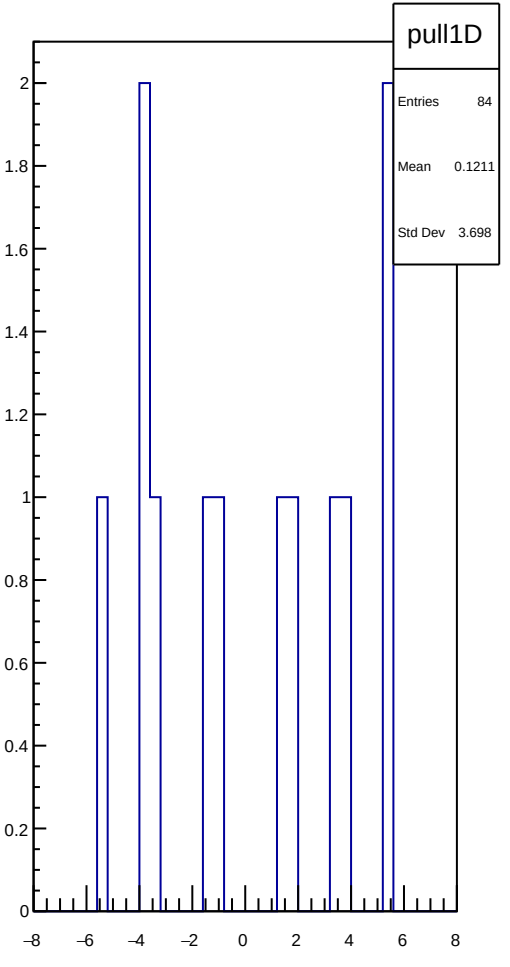

yield_atl1_rms vs run
×10⁻³
0.11
0.1
0.09
0.08
0.07
0.06
χ² / ndf 1.618e+04 / 83
p0 6.849e−05 ± 5.397e−08

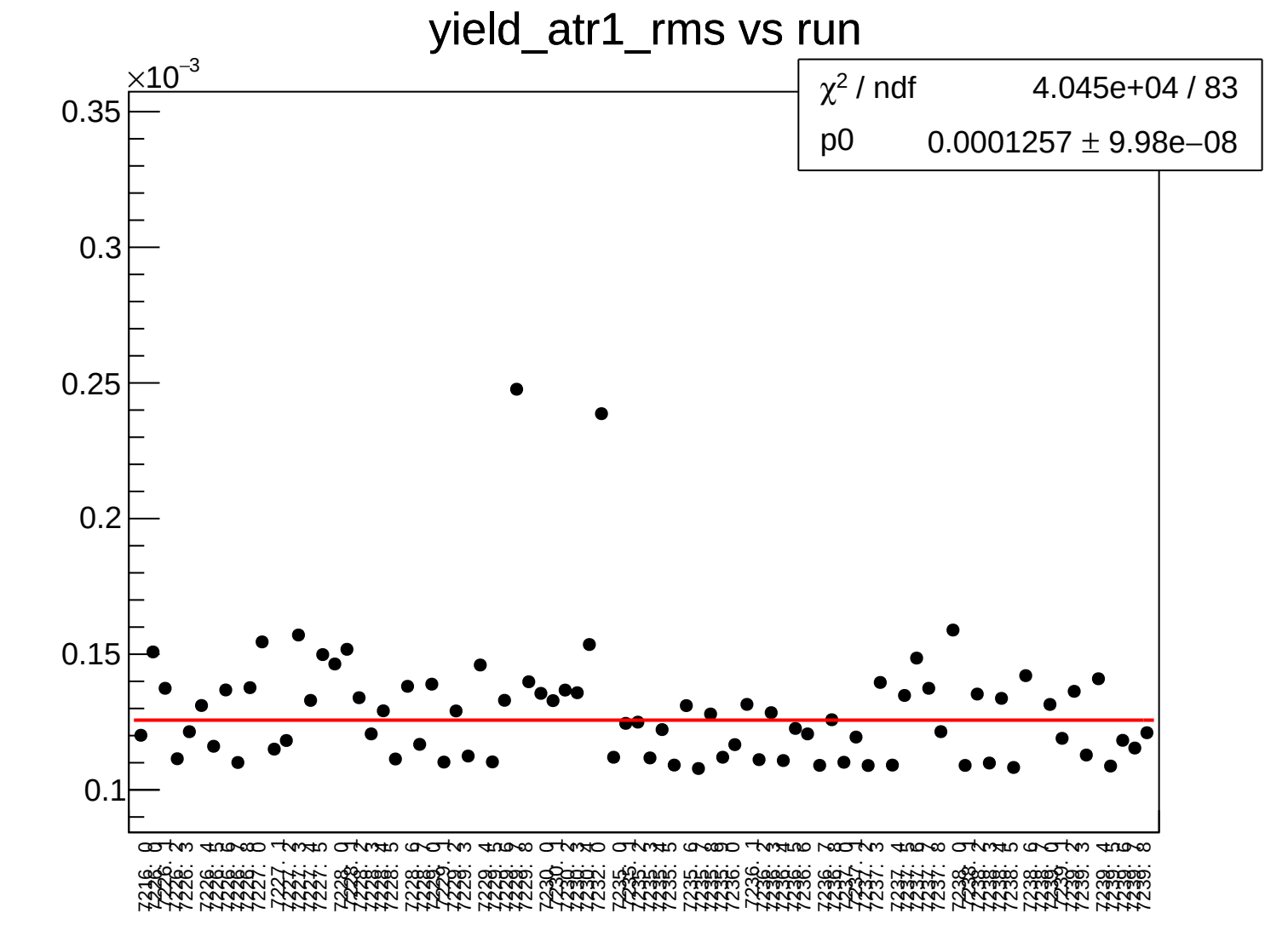

yield_atl2_mean vs run
χ² / ndf 1.597e+05 / 83
p0 0.01599 ± 1.773e−07
0.0165
0.0164
0.0163
0.0162
0.0161
0.016
0.0159
0.0158
0.0157
pull
Entries 84
Mean 182.6
Std Dev 0
150
100
50
0
−50
−100

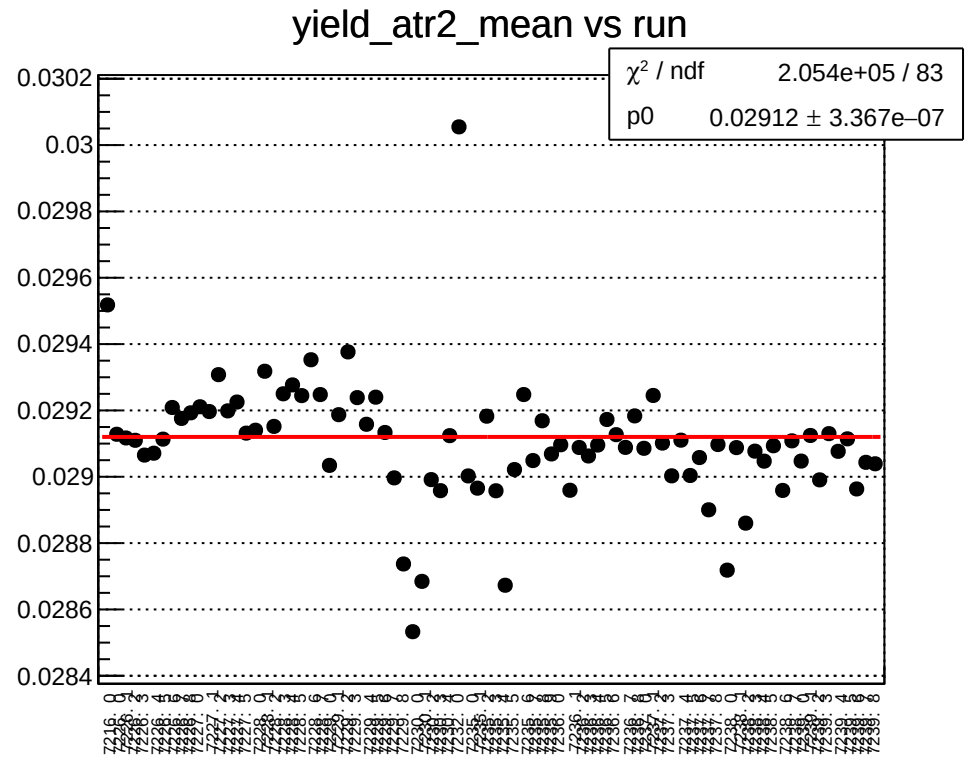

pull1D
Entries 84
Mean 1.886
Std Dev 3.975
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

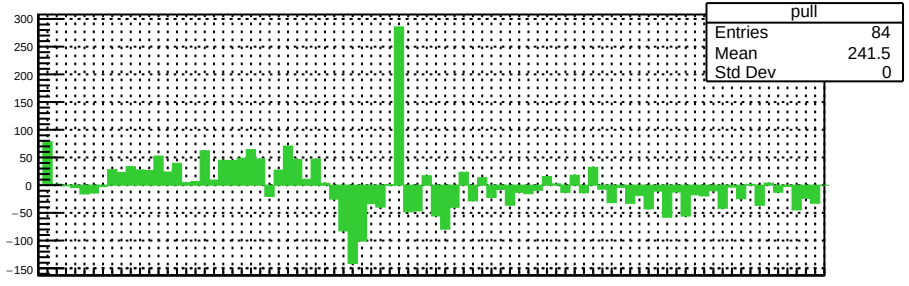

yield_atl2_rms vs run
×10⁻³
χ² / ndf 1.082e+05 / 83
p0 0.0001545 ± 1.254e−07
0.4
0.35
0.3
0.25
0.2
0.15
0.1

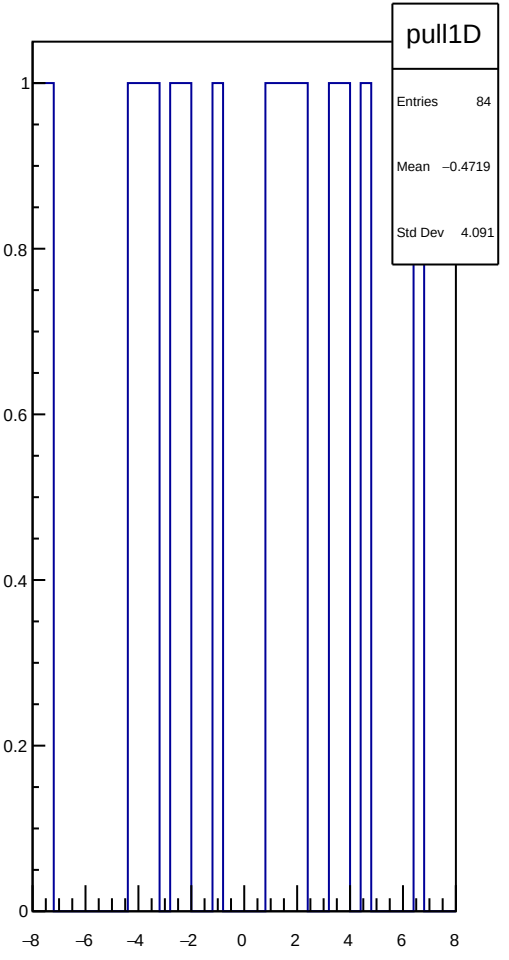

yield_atr1_mean vs run
χ² / ndf 2.154e+05 / 83
p0 0.03842 ± 1.411e−07
0.03865
0.0386
0.03855
0.0385
0.03845
0.0384
0.03835
0.0383
0.03825
pull
Entries 84
Mean 1099
Std Dev 0
150
100
50
0
−50
−100

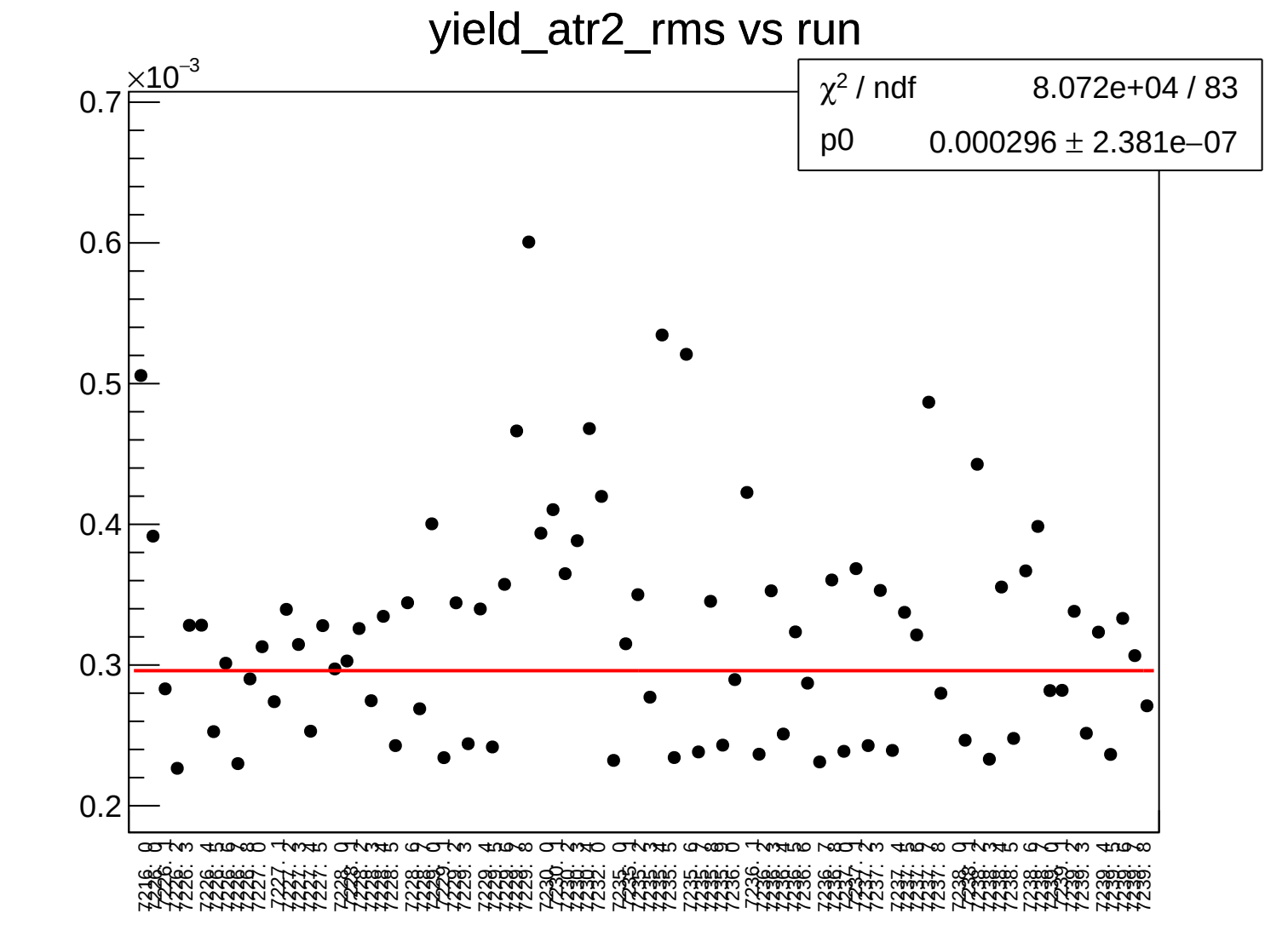

pull1D
Entries 84
Mean 0.1211
Std Dev 3.698
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

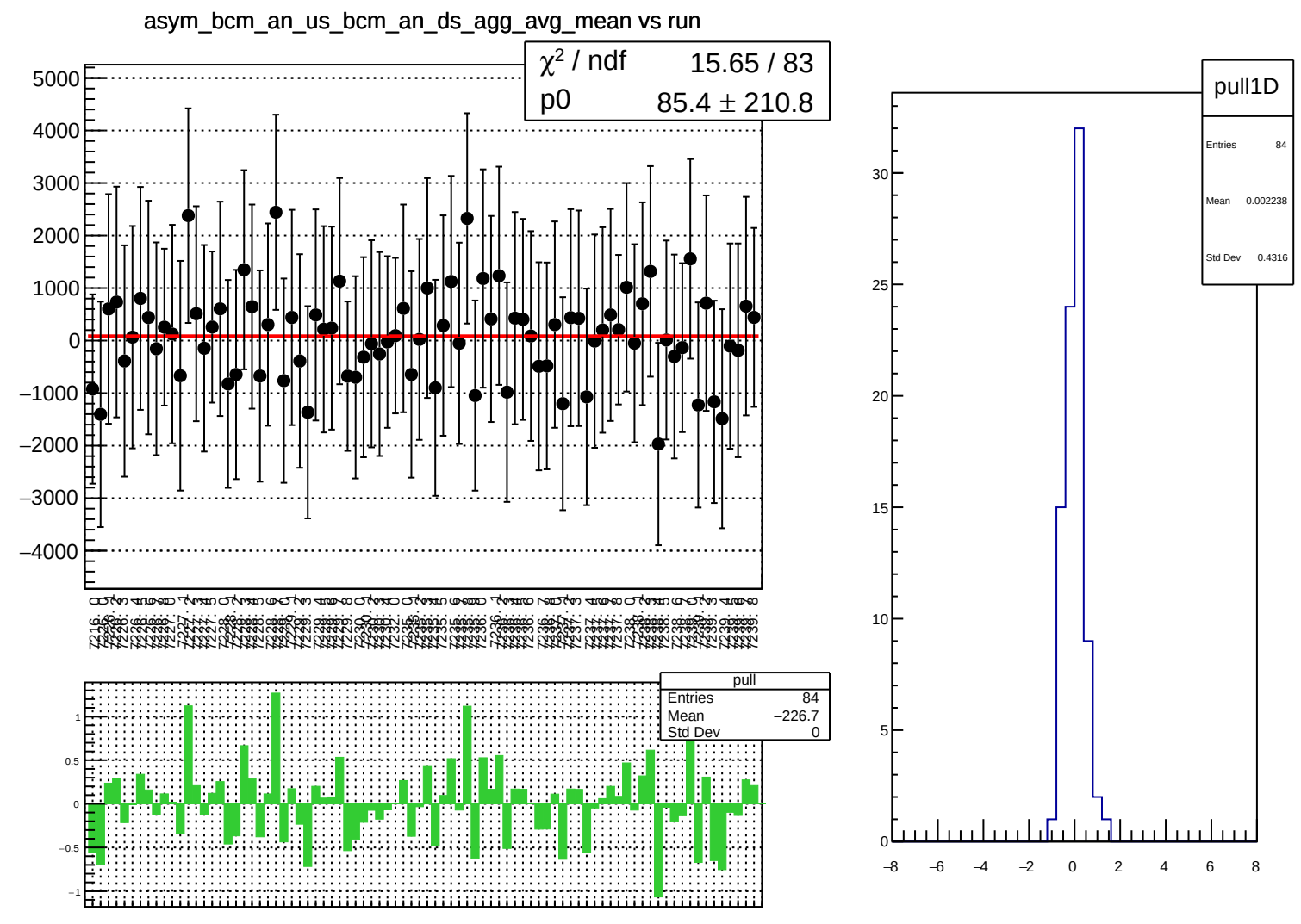

yield_atr1_rms vs run
×10⁻³
χ² / ndf 4.045e+04 / 83
p0 0.0001257 ± 9.98e−08
0.35
0.3
0.25
0.2
0.15
0.1

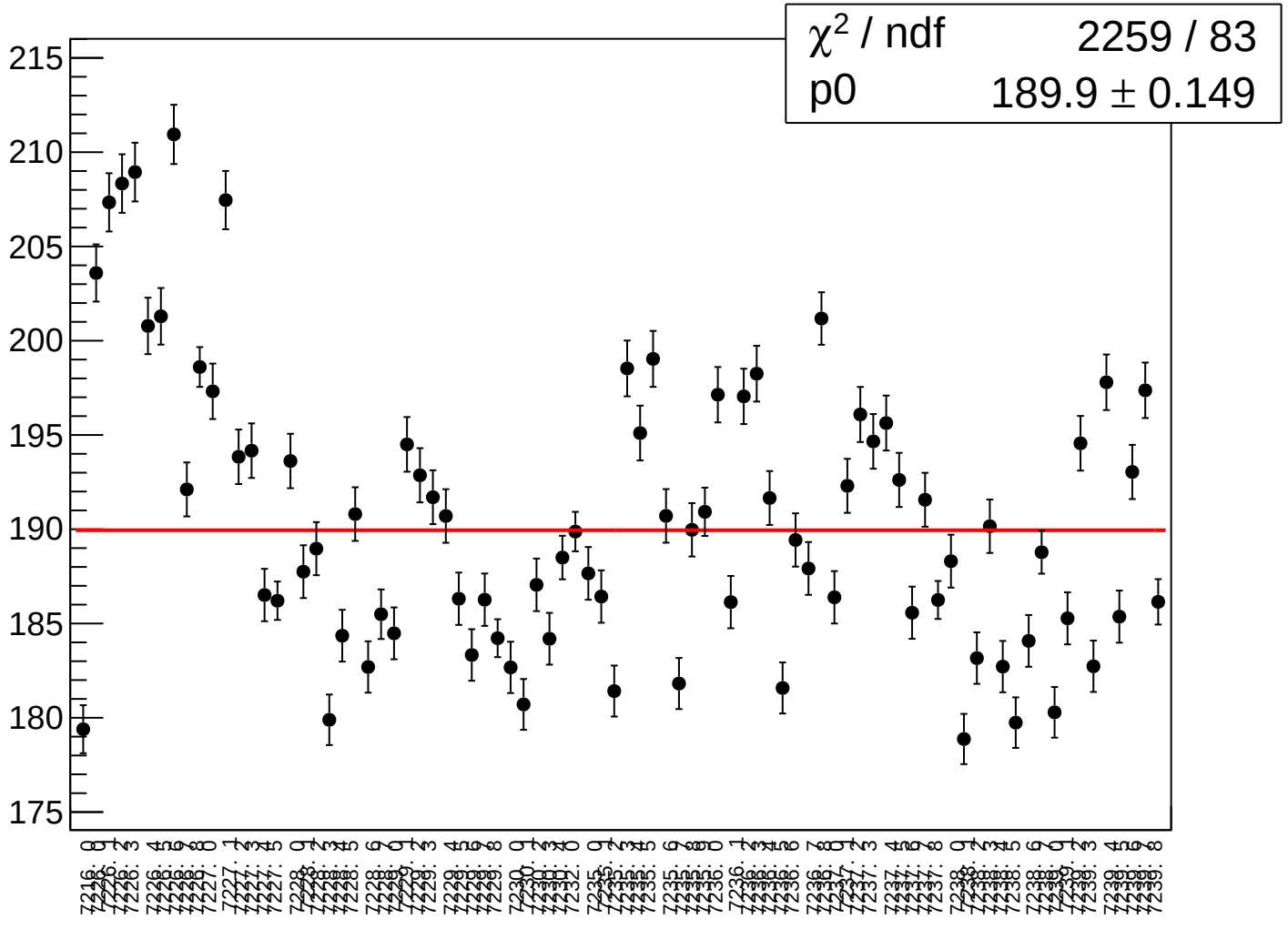

yield_atr2_mean vs run
χ² / ndf 2.054e+05 / 83
p0 0.02912 ± 3.367e−07
0.0302
0.03
0.0298
0.0296
0.0294
0.0292
0.029
0.0288
0.0286
0.0284

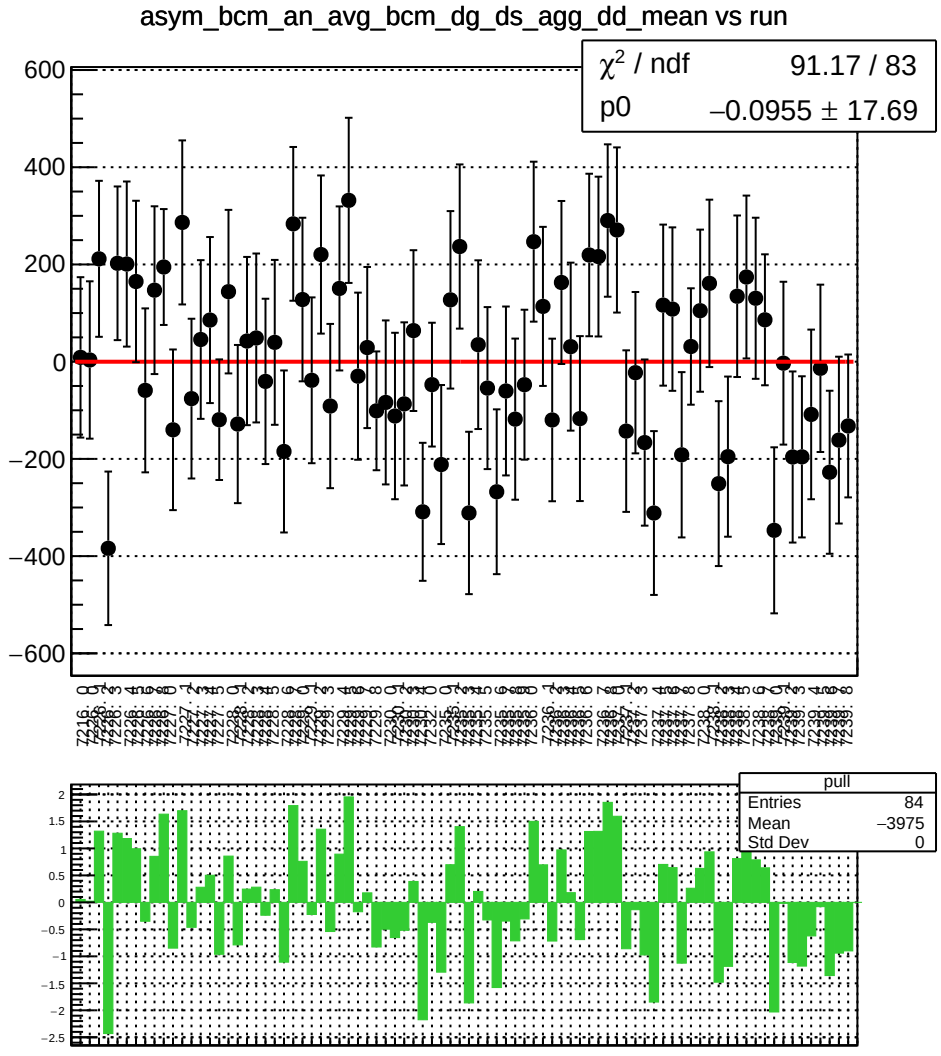

pull
Entries 84
Mean 241.5
Std Dev 0
300
250
200
150
100
50
0
−50
−100
−150

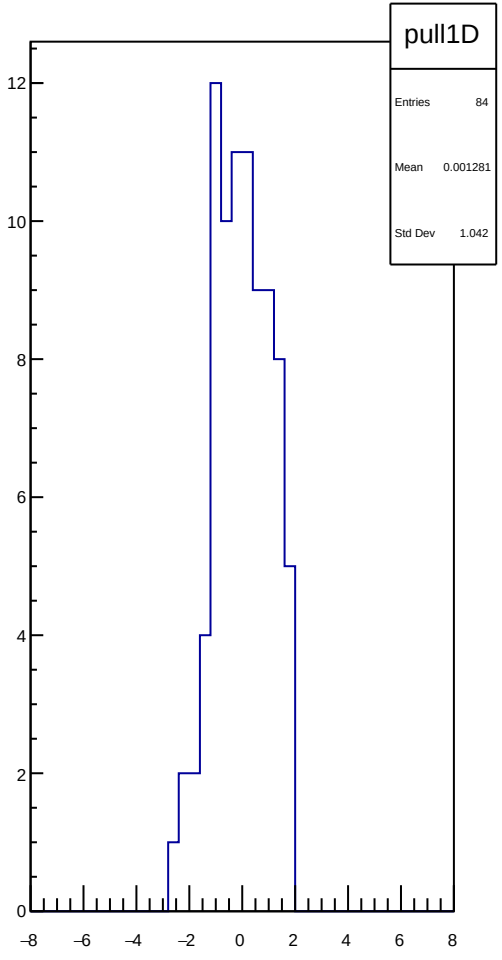

pull1D
Entries 84
Mean −0.4719
Std Dev 4.091
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

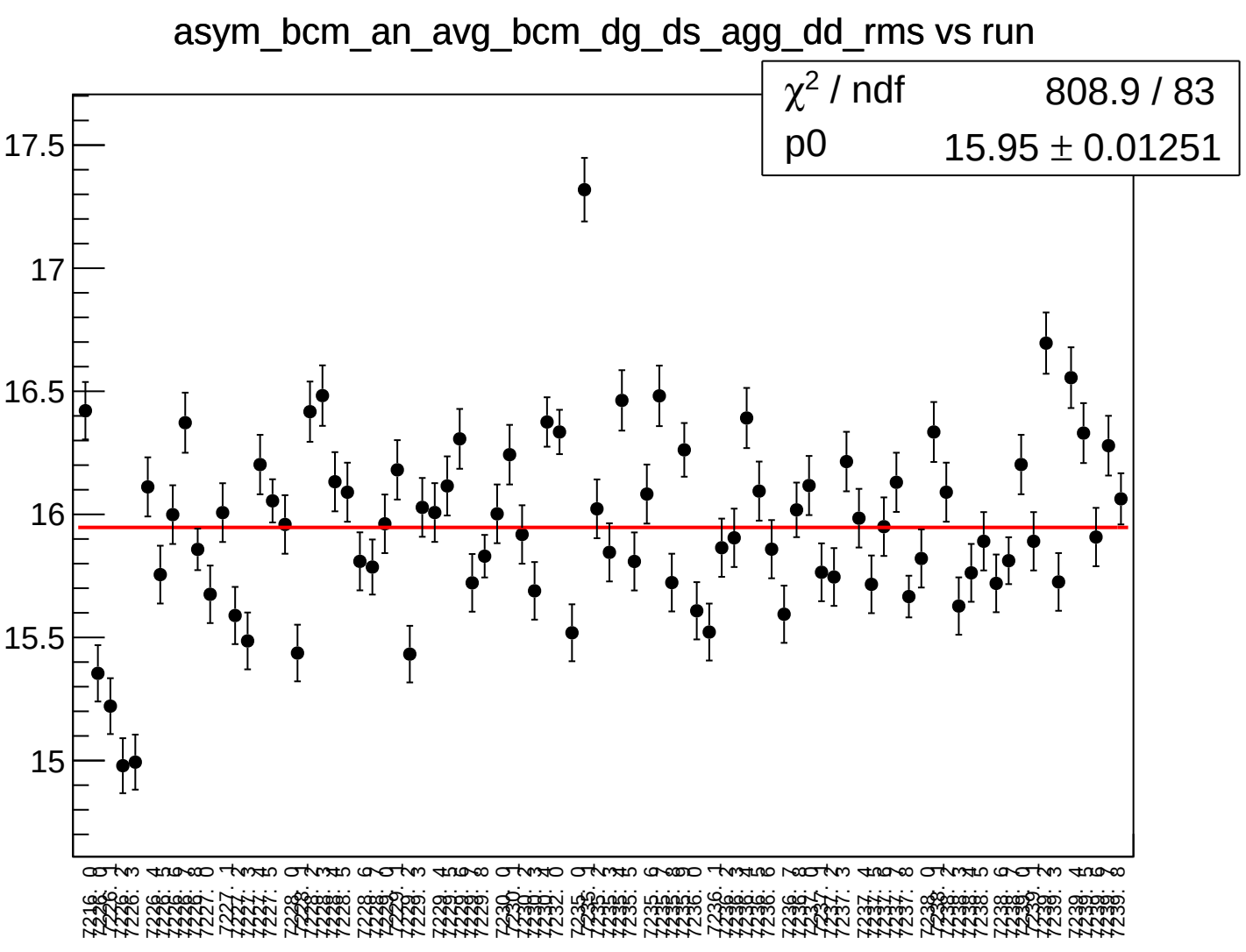

yield_atr2_rms vs run
×10⁻³
0.7
0.6
0.5
0.4
0.3
0.2
χ² / ndf 8.072e+04 / 83
p0 0.000296 ± 2.381e−07

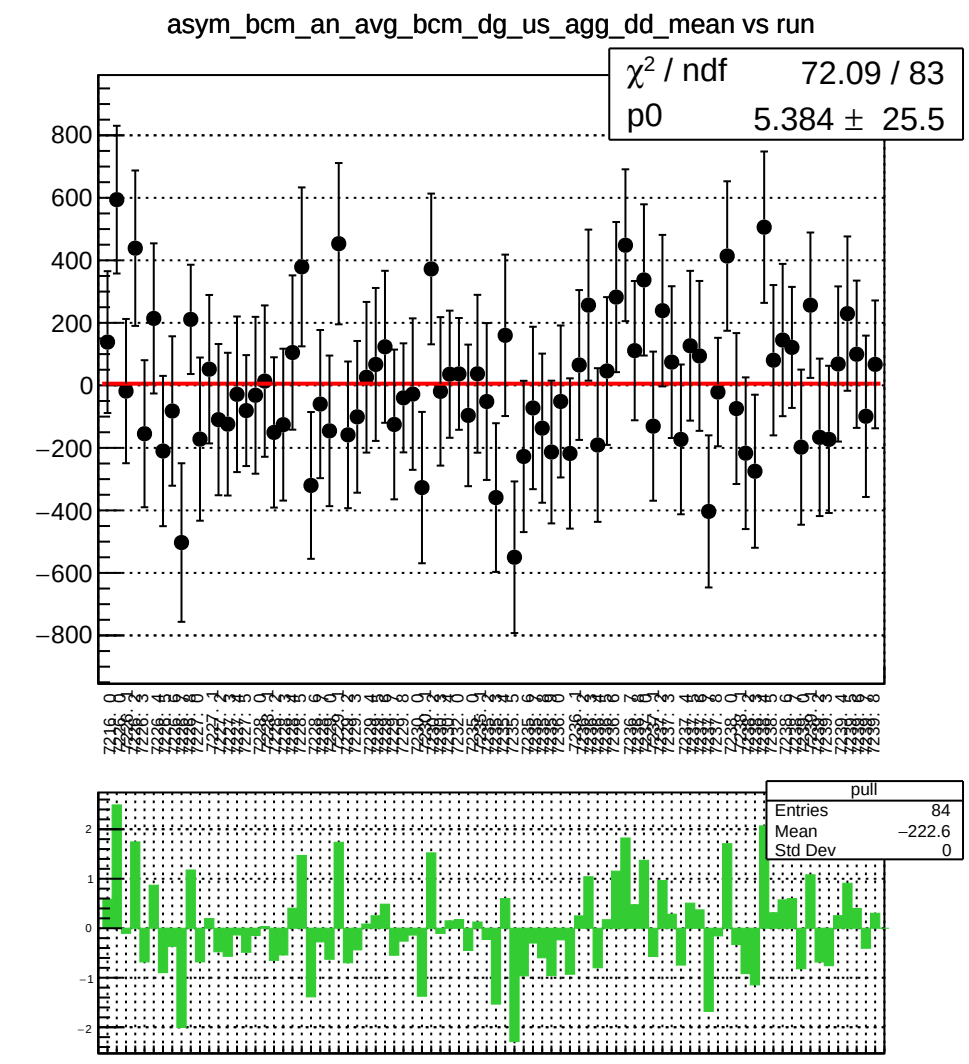

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 15.65 / 83
p0 85.4 ± 210.8
pull
Entries 84
Mean −226.7
Std Dev 0
pull1D
Entries 84
Mean 0.002238
Std Dev 0.4316

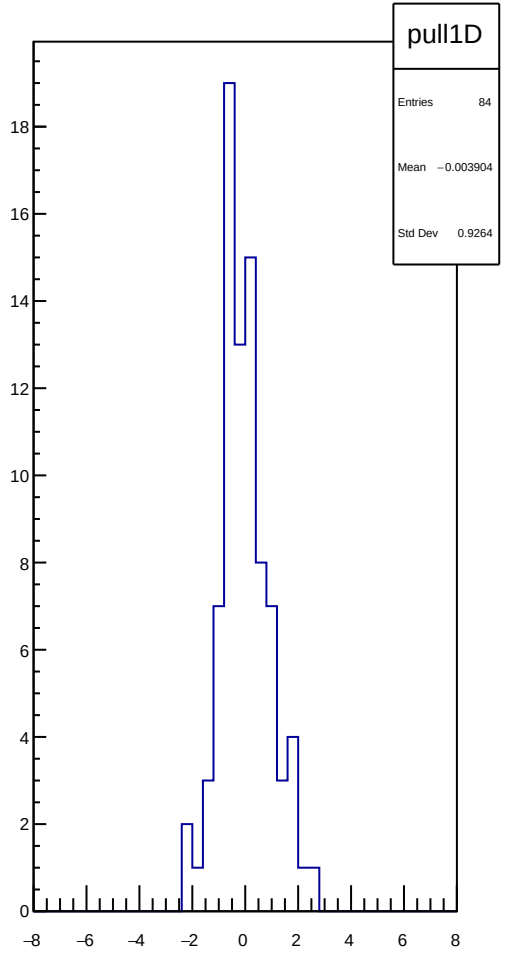

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2259 / 83
p0 189.9 ± 0.149
215
210
205
200
195
190
185
180
175

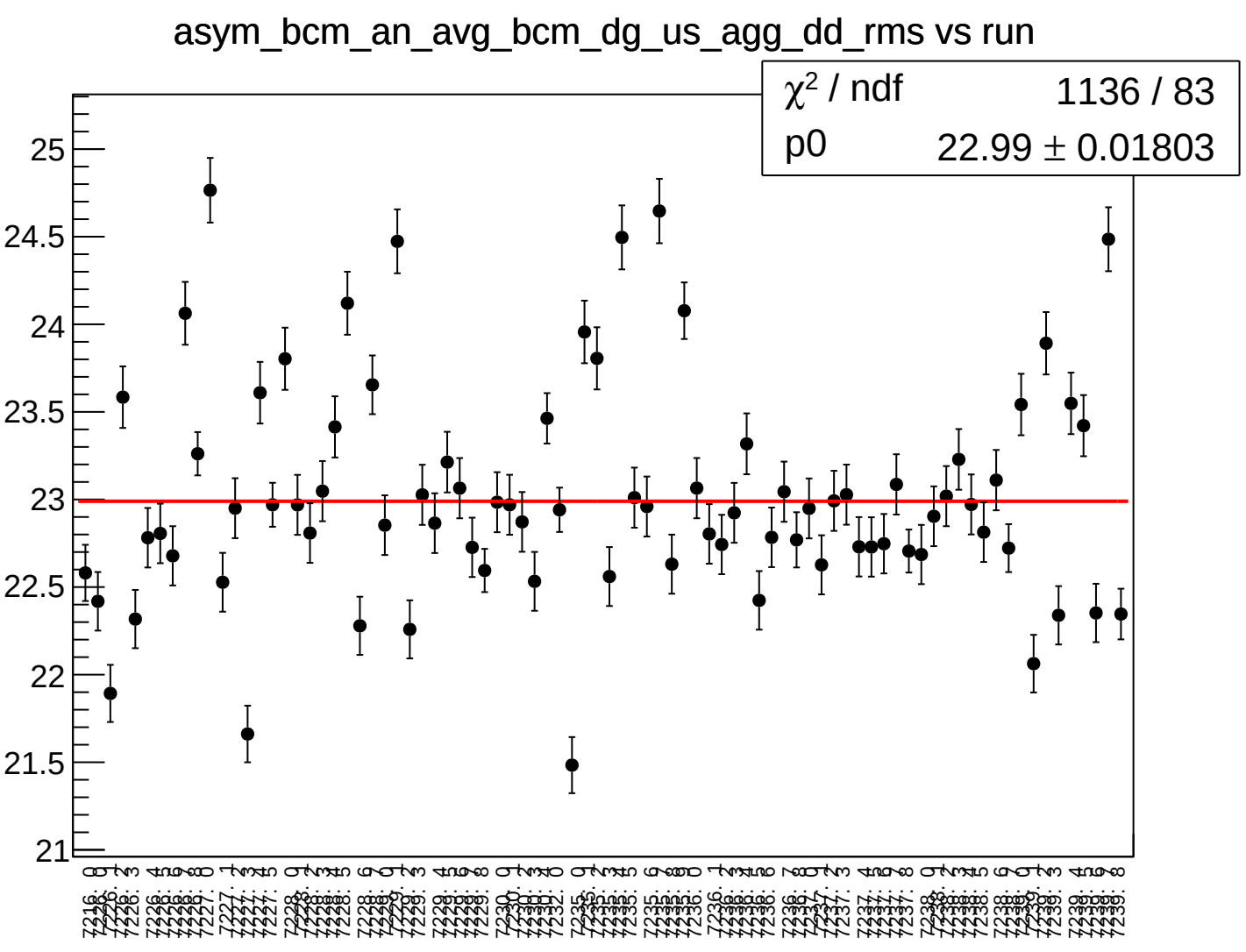

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 91.17 / 83
p0 −0.0955 ± 17.69
pull
Entries 84
Mean −3975
Std Dev 0

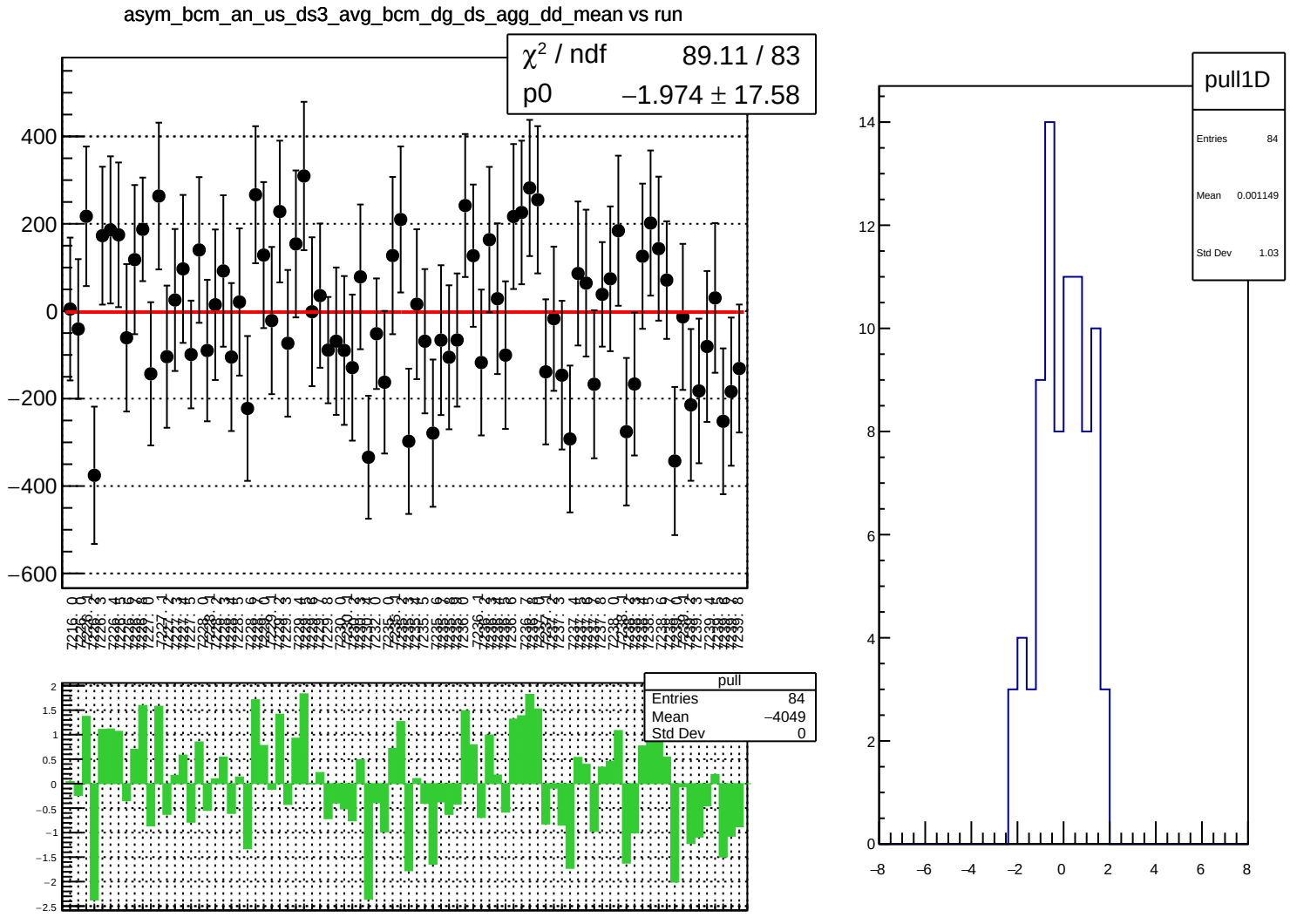

pull1D
Entries 84
Mean 0.001281
Std Dev 1.042

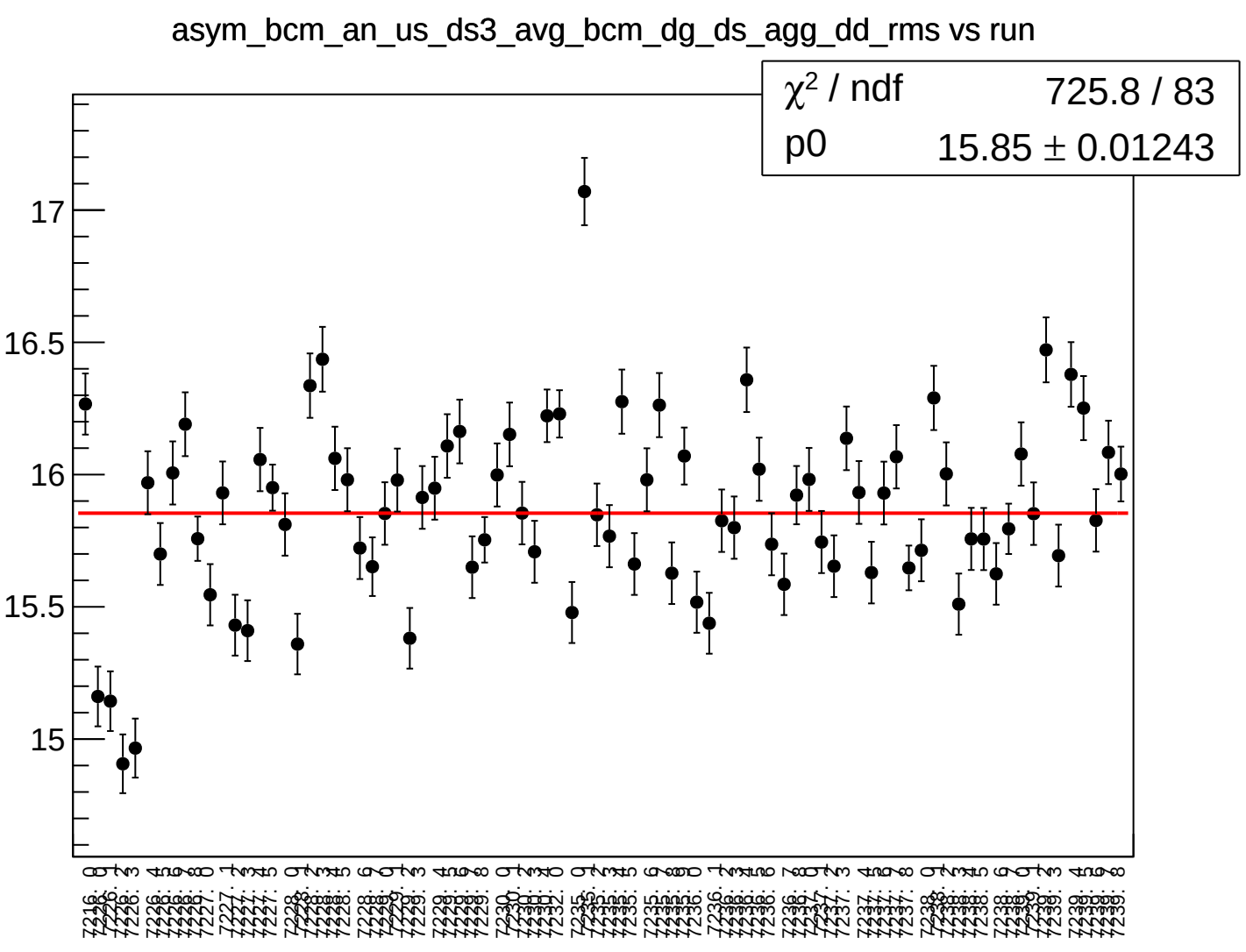

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ^2 / ndf 808.9 / 83
p0 15.95 ± 0.01251
17.5
17
16.5
16
15.5
15

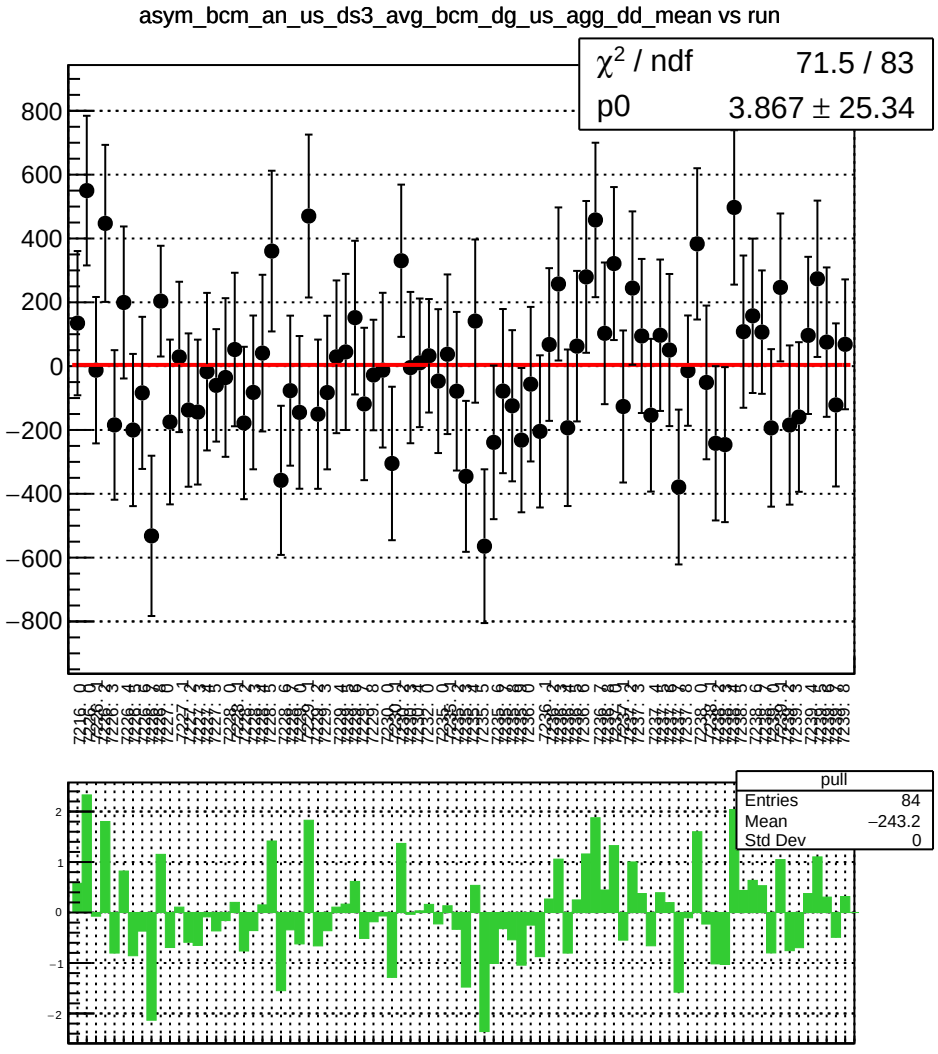

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 72.09 / 83
p0 5.384 ± 25.5
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 84
Mean −222.6
Std Dev 0
2
1
0
−1
−2

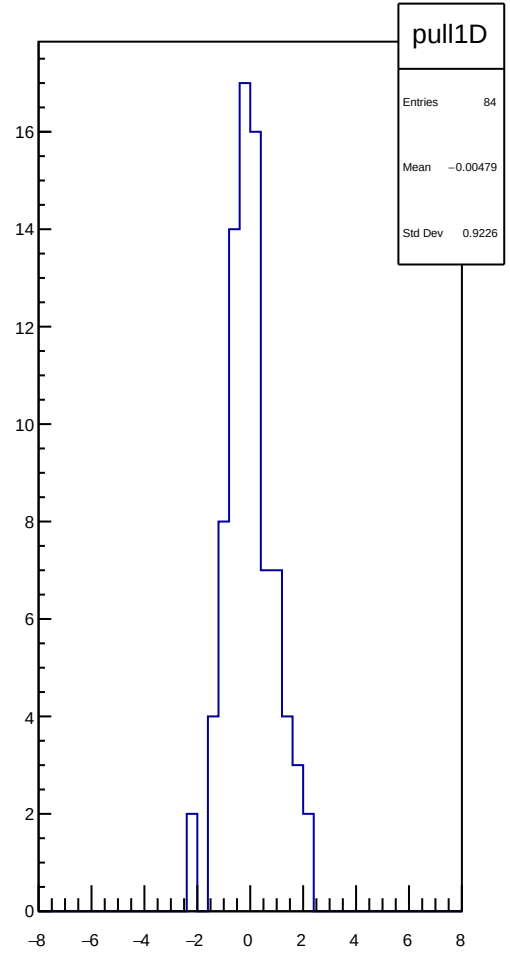

pull1D
Entries 84
Mean −0.003904
Std Dev 0.9264
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

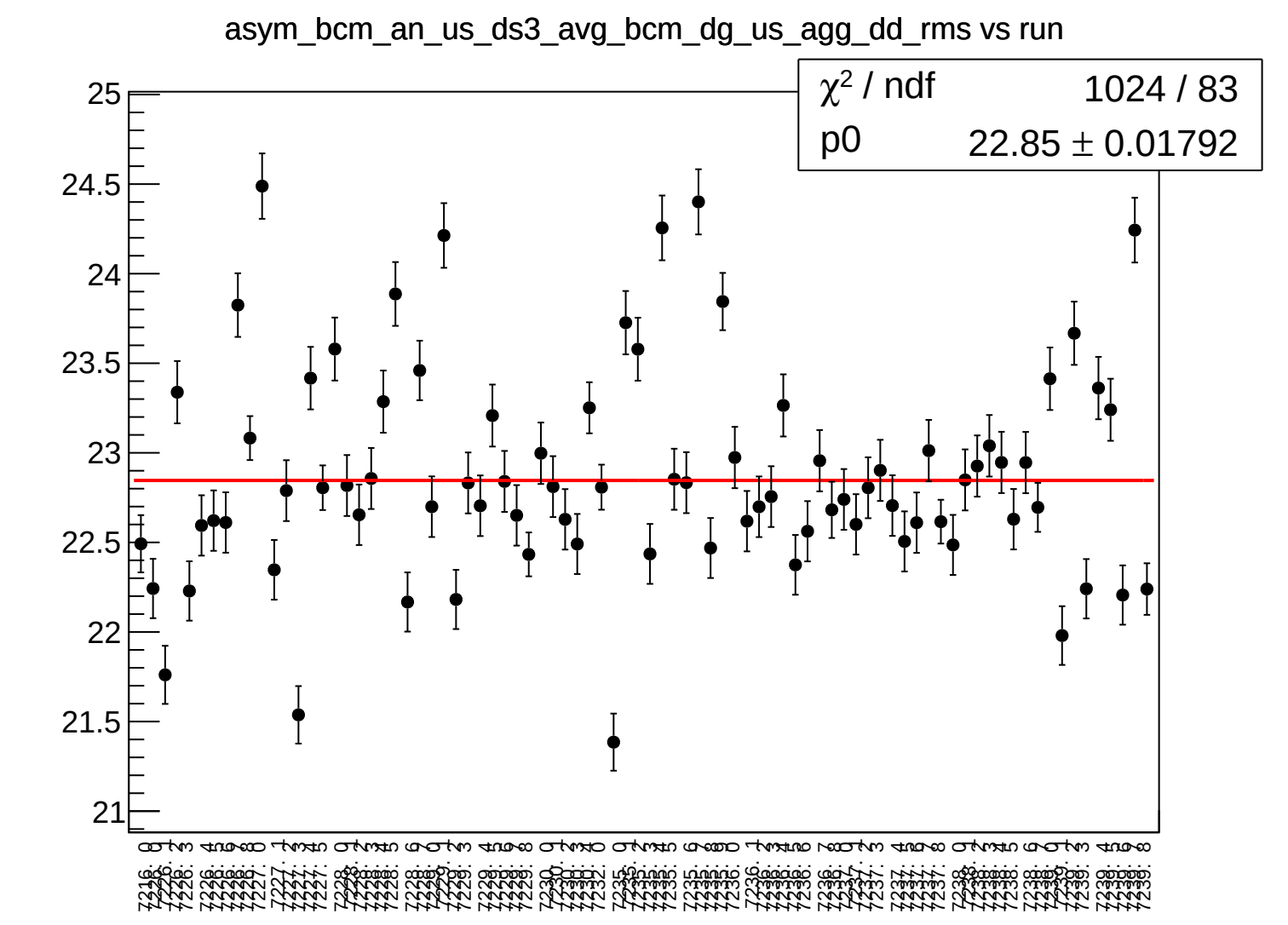

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1136 / 83
p0 22.99 ± 0.01803
25
24.5
24
23.5
23
22.5
22
21.5
21

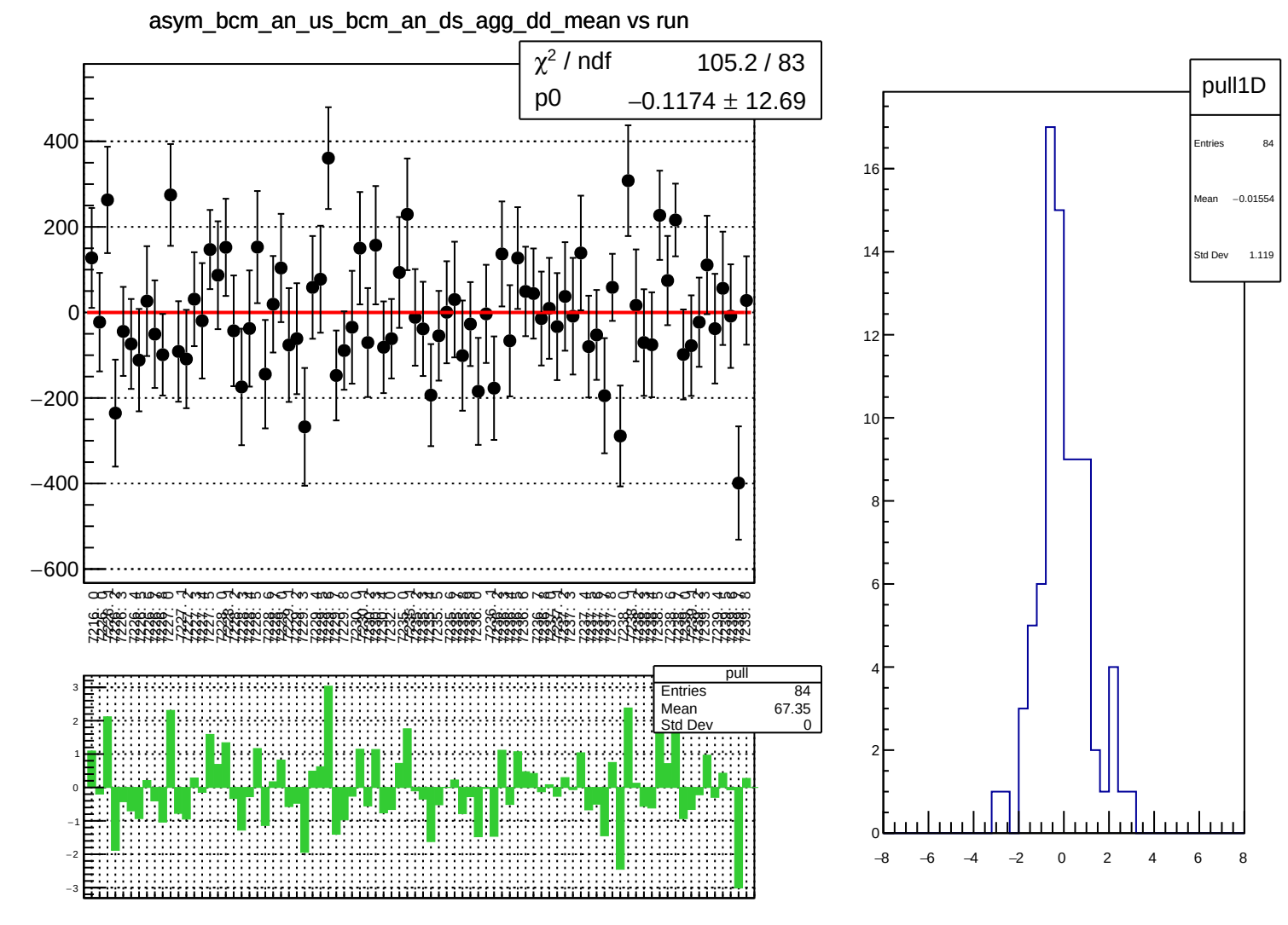

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 89.11 / 83
p0 −1.974 ± 17.58
pull
Entries 84
Mean −4049
Std Dev 0
pull1D
Entries 84
Mean 0.001149
Std Dev 1.03

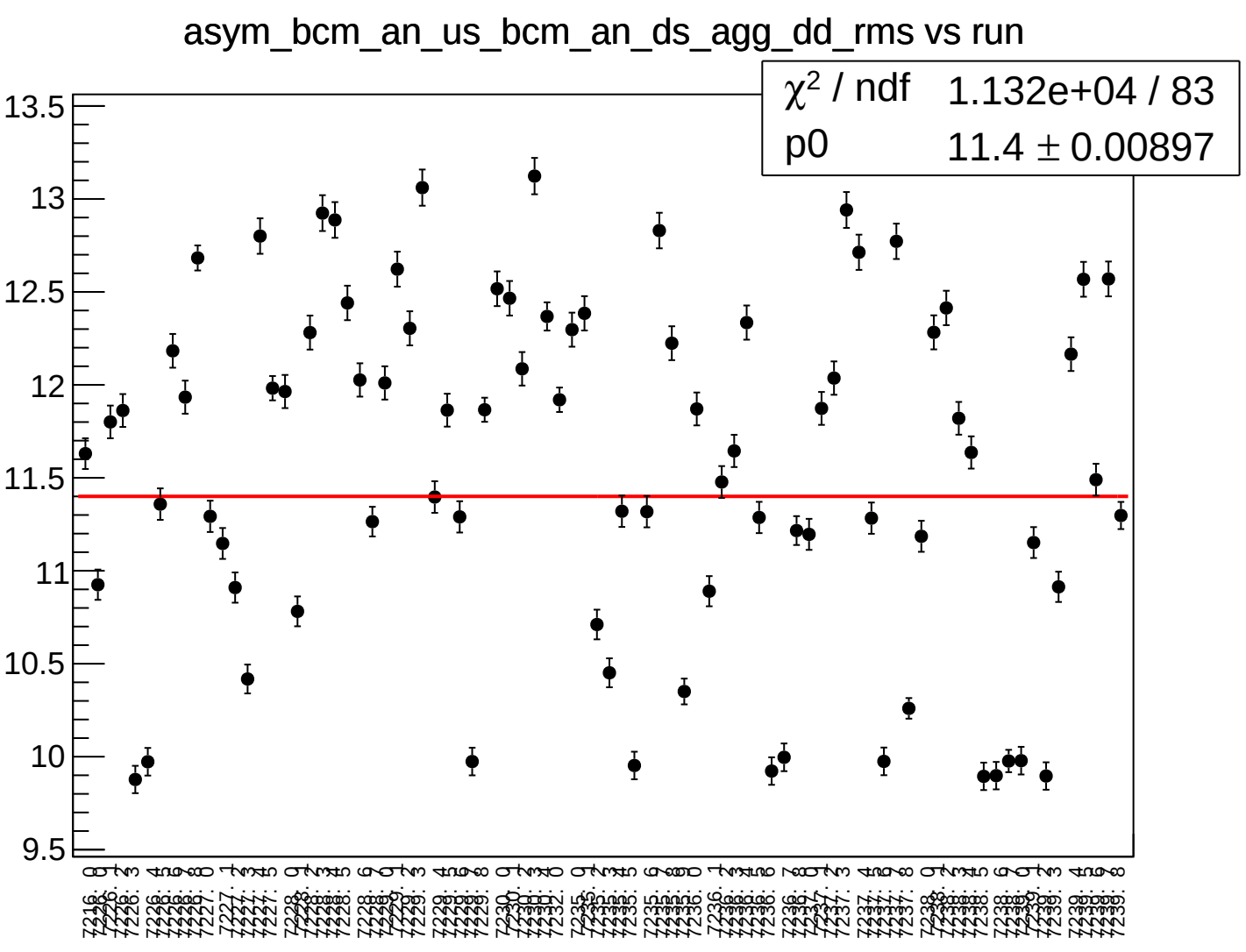

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 725.8 / 83
p0 15.85 ± 0.01243
17
16.5
16
15.5
15

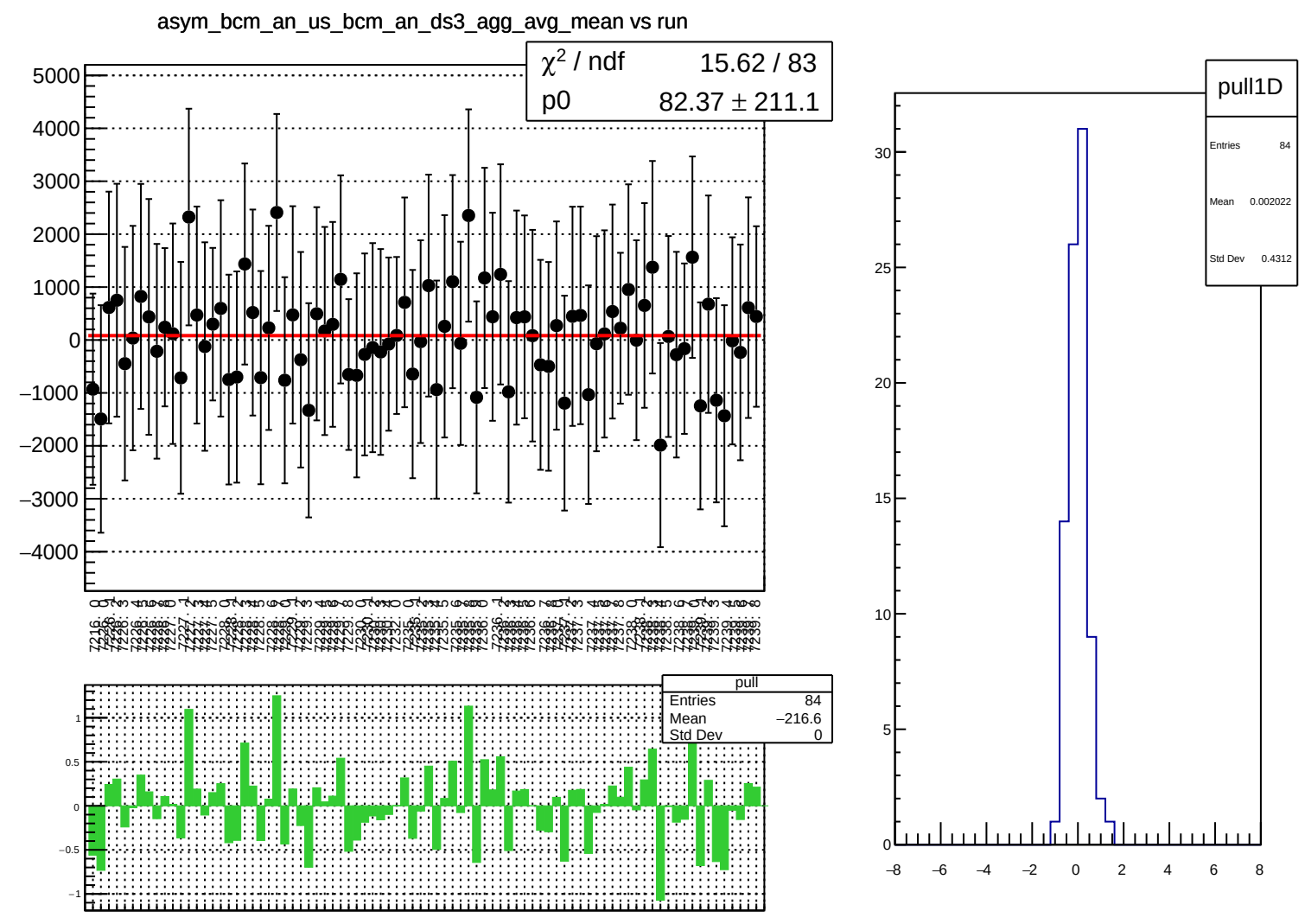

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 71.5 / 83
p0 3.867 ± 25.34
pull
Entries 84
Mean −243.2
Std Dev 0

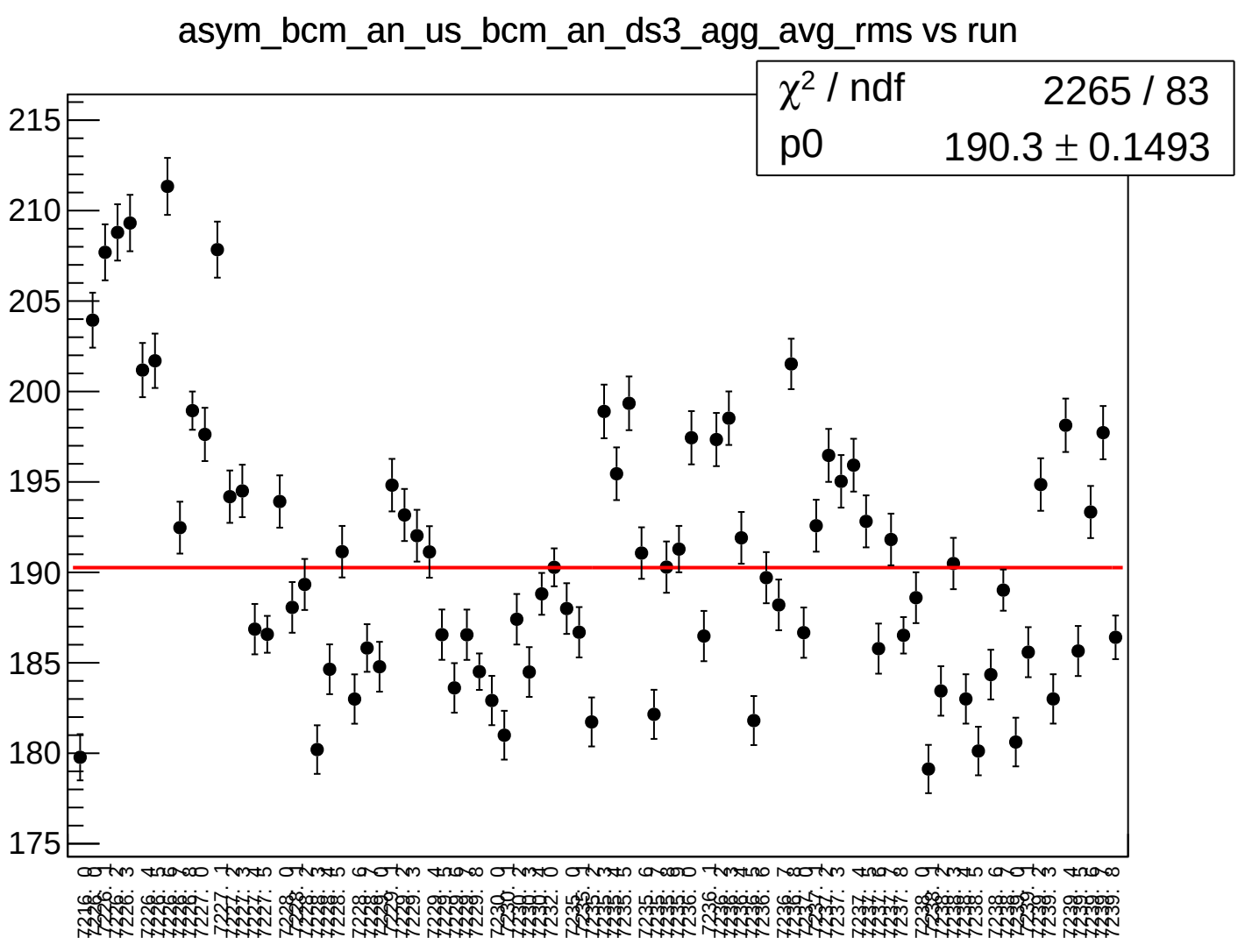

pull1D
Entries 84
Mean −0.00479
Std Dev 0.9226

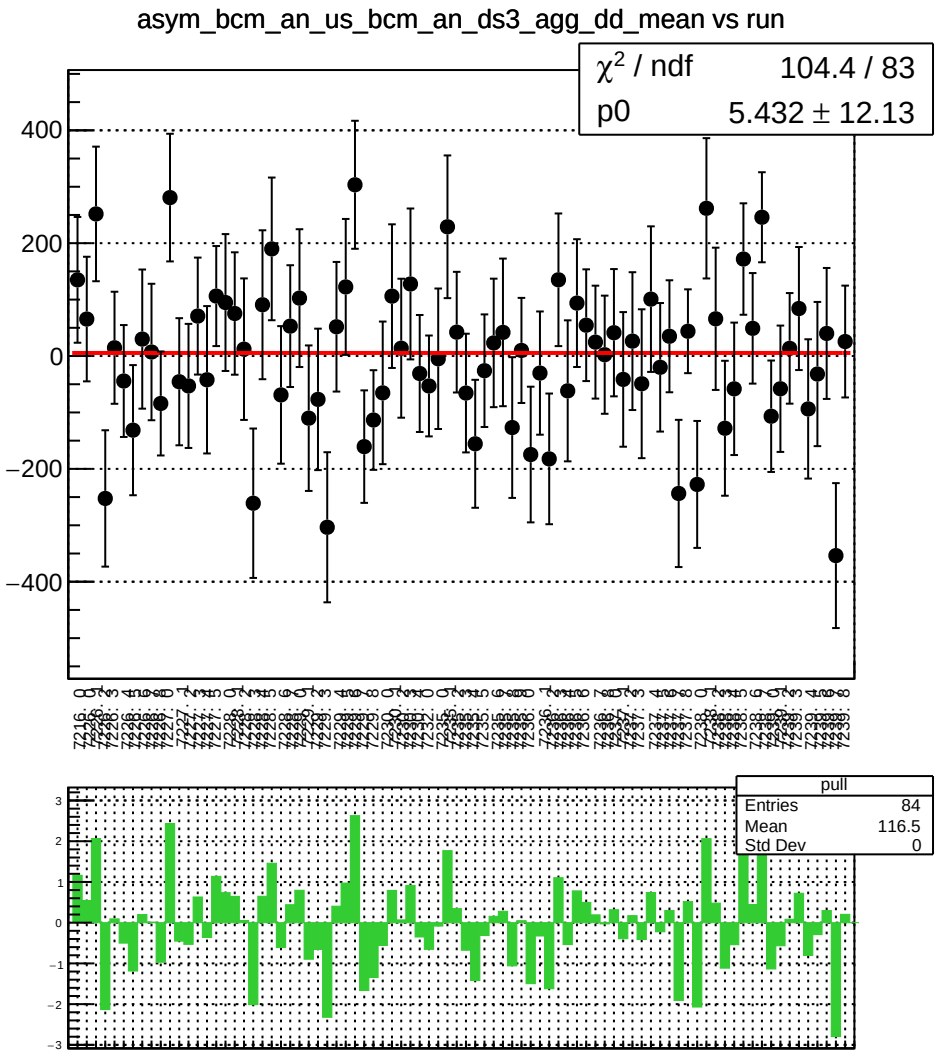

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1024 / 83
p0 22.85 ± 0.01792
25
24.5
24
23.5
23
22.5
22
21.5
21

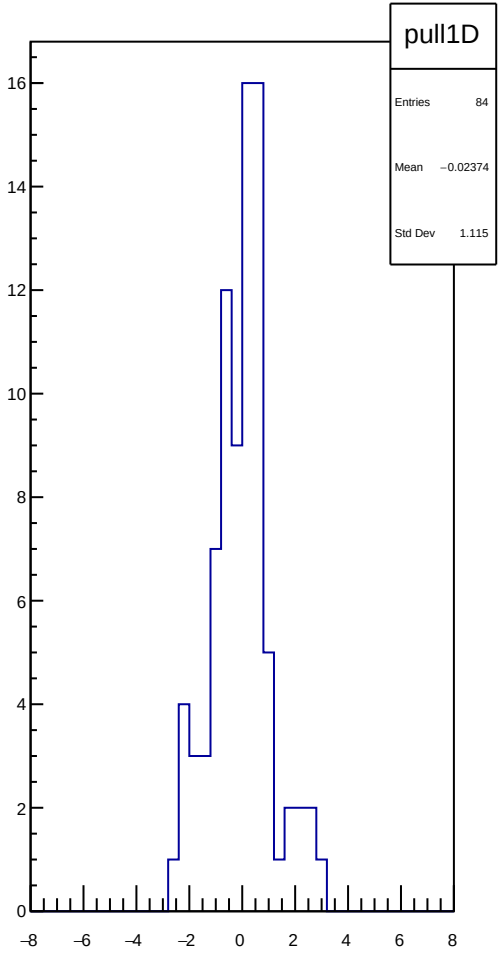

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 105.2 / 83
p0 −0.1174 ± 12.69
pull
Entries 84
Mean 67.35
Std Dev 0
pull1D
Entries 84
Mean −0.01554
Std Dev 1.119

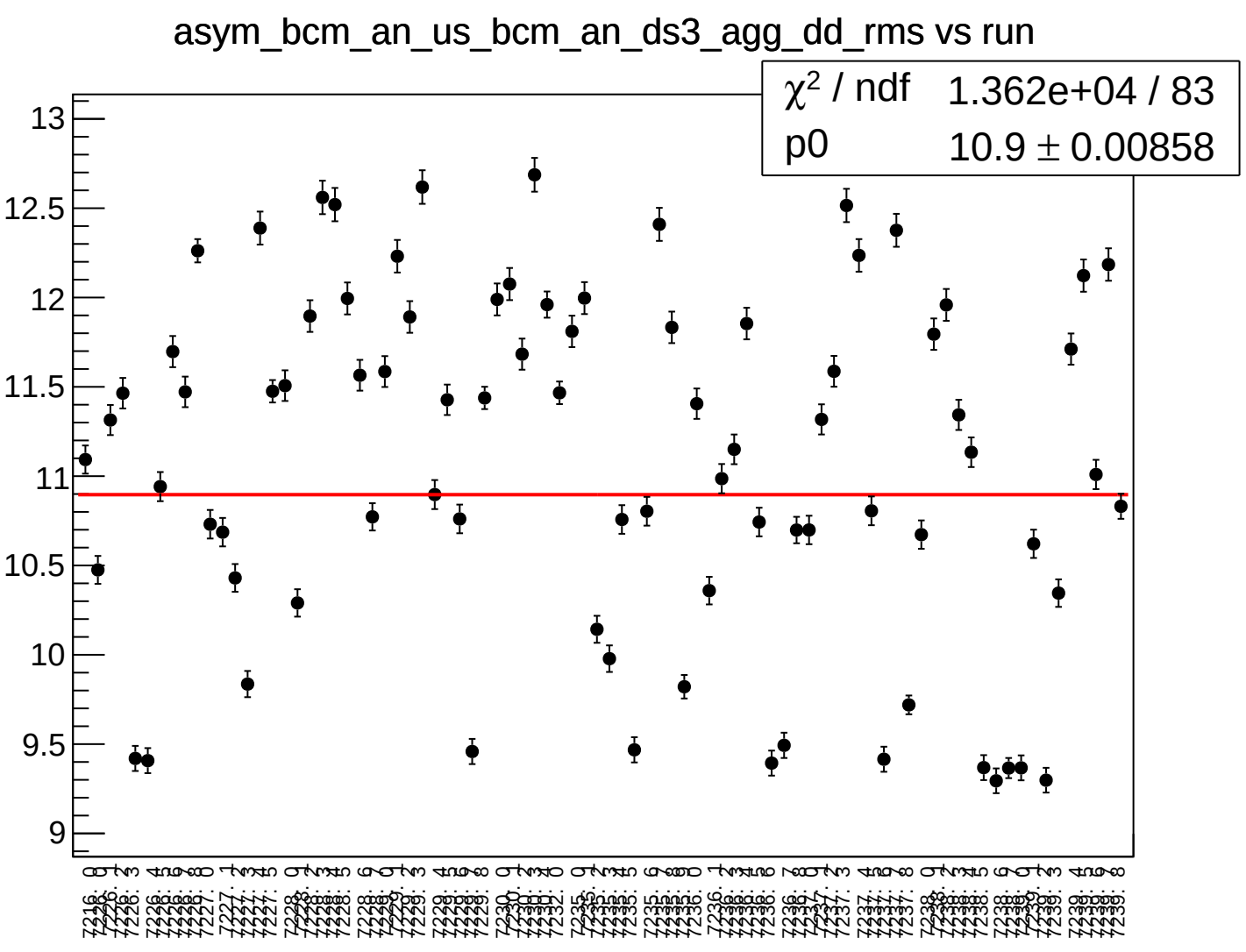

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.132e+04 / 83
p0 11.4 ± 0.00897
13.5
13
12.5
12
11.5
11
10.5
10
9.5

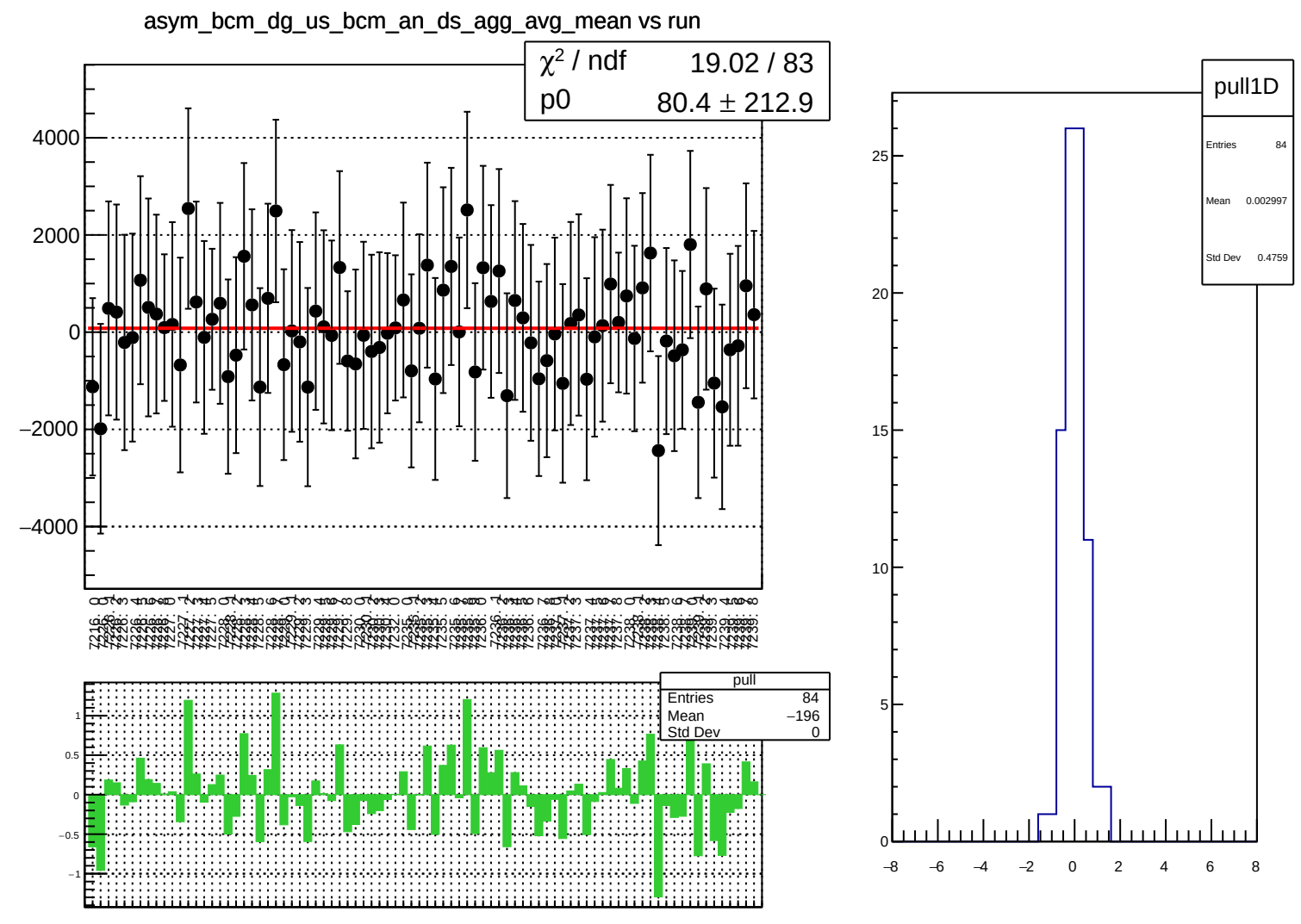

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 15.62 / 83
p0 82.37 ± 211.1
pull
Entries 84
Mean −216.6
Std Dev 0
pull1D
Entries 84
Mean 0.002022
Std Dev 0.4312

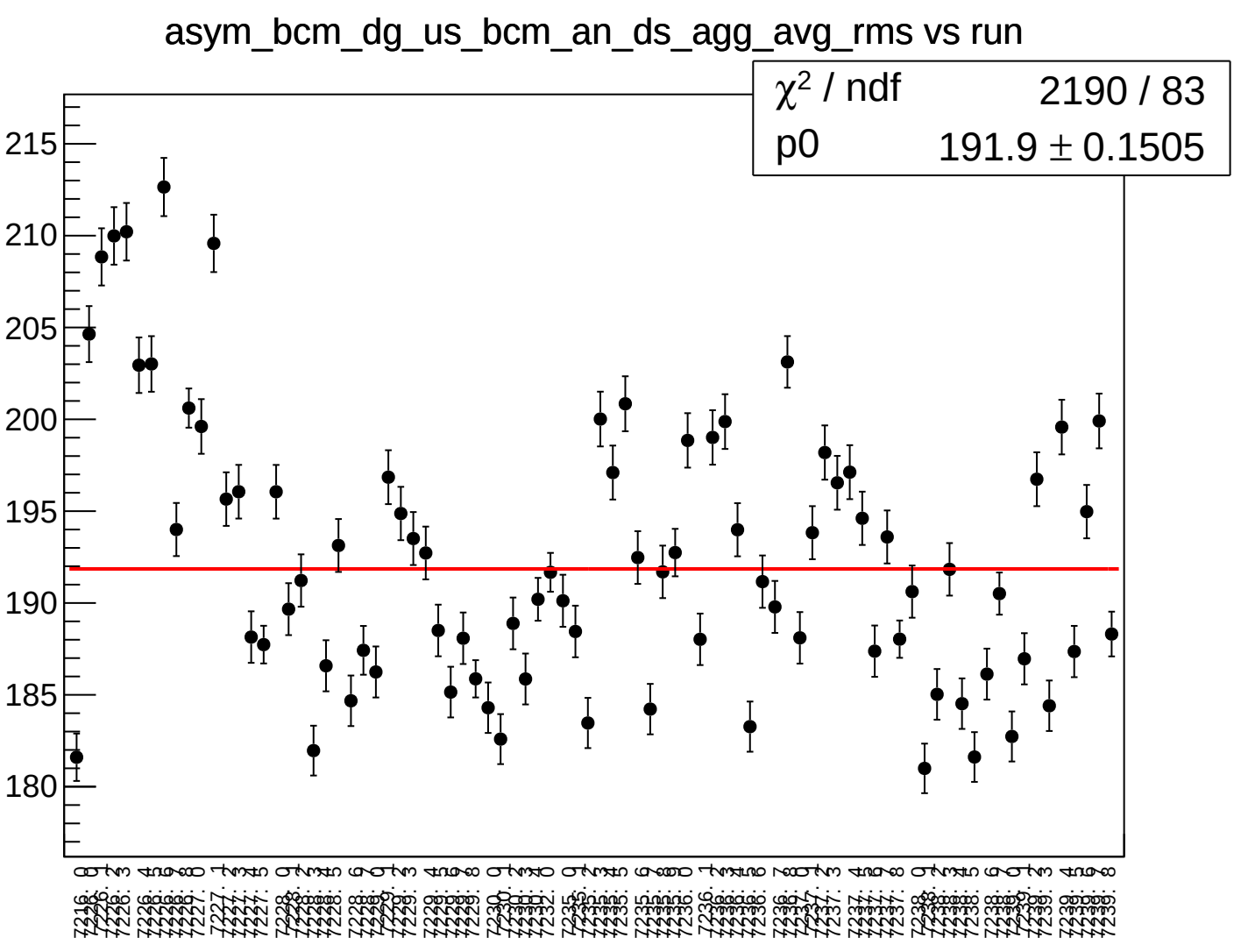

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 2265 / 83
p0 190.3 ± 0.1493
215
210
205
200
195
190
185
180
175

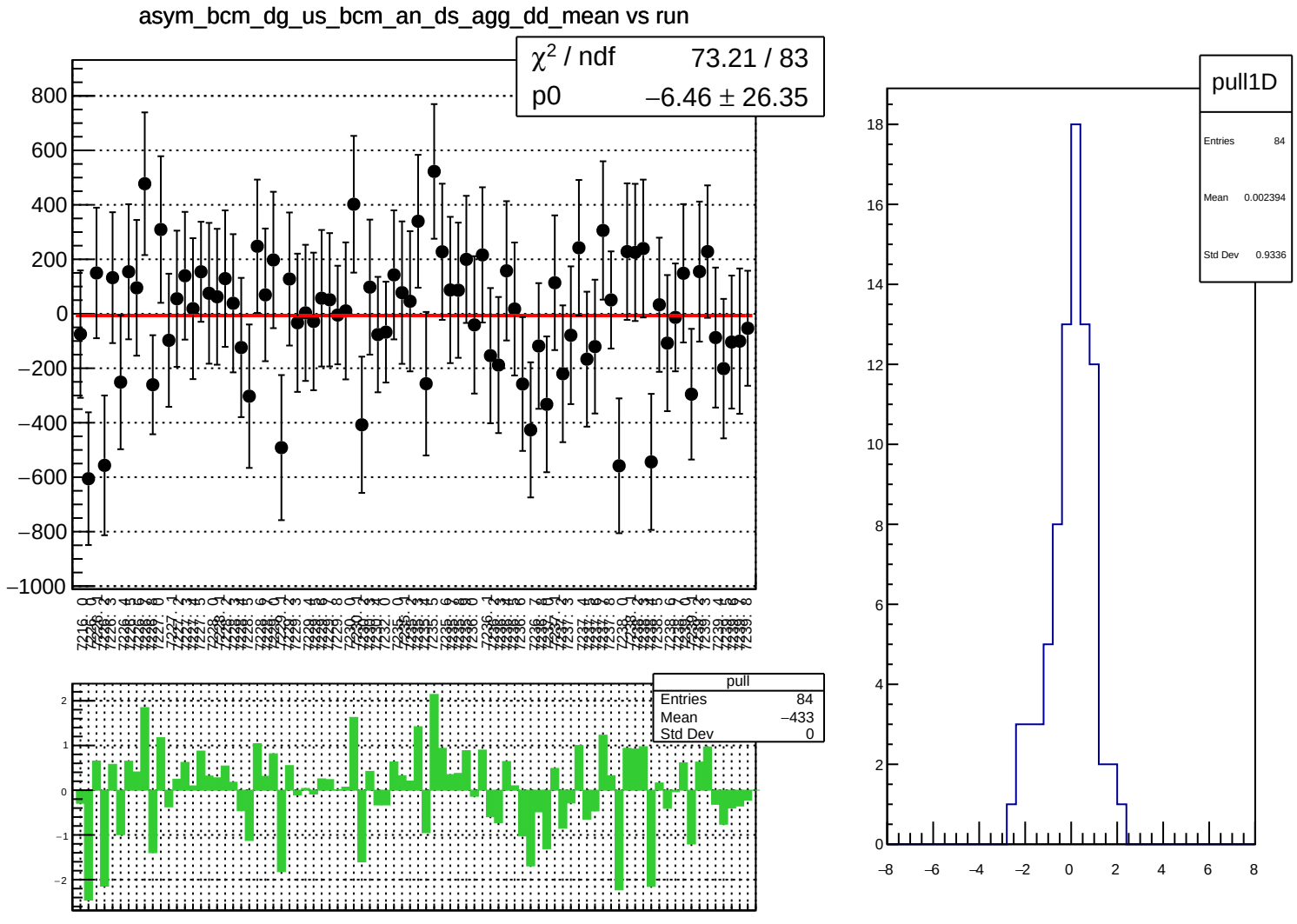

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 104.4 / 83
p0 5.432 ± 12.13
pull
Entries 84
Mean 116.5
Std Dev 0

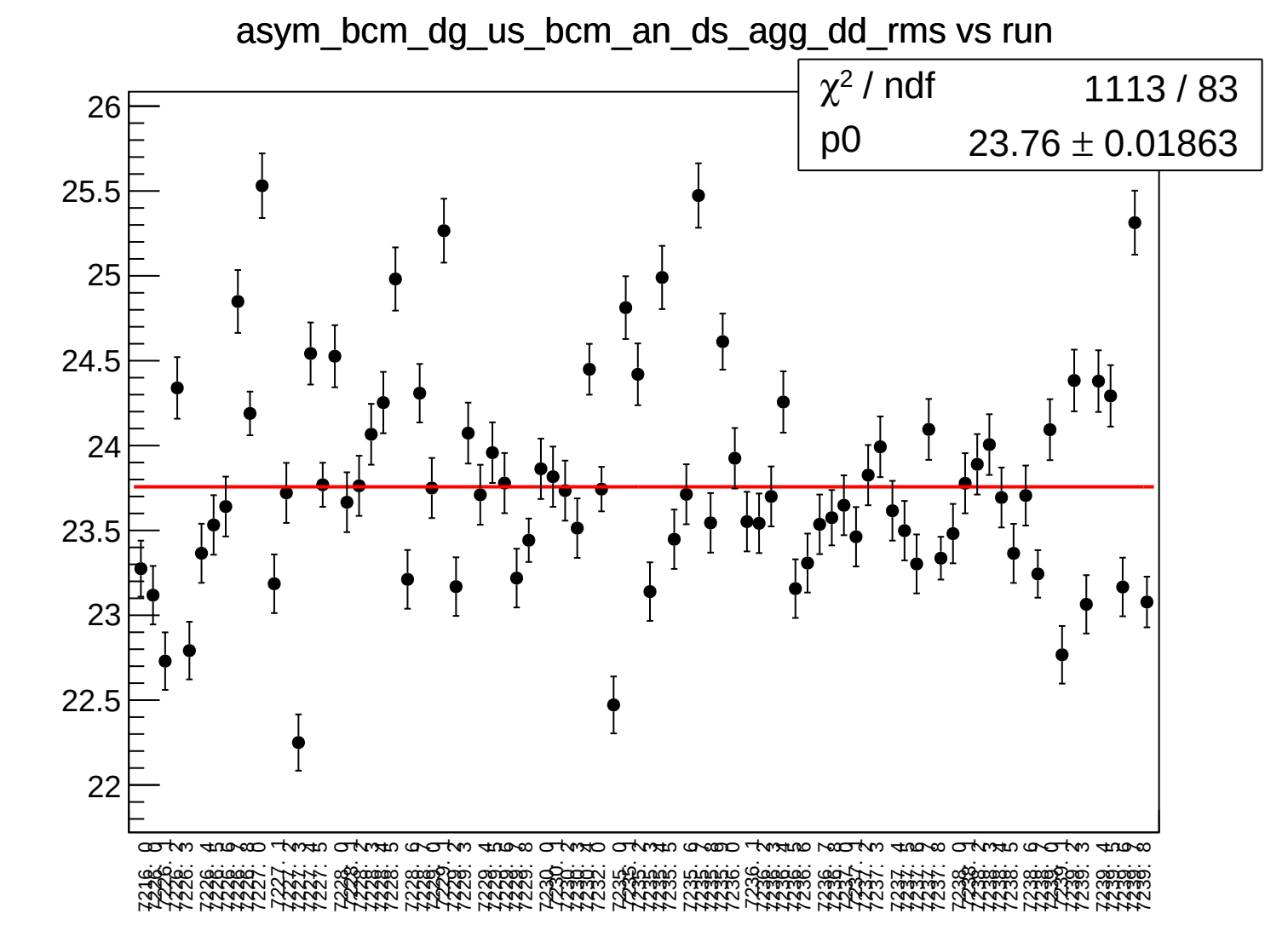

pull1D
Entries 84
Mean −0.02374
Std Dev 1.115

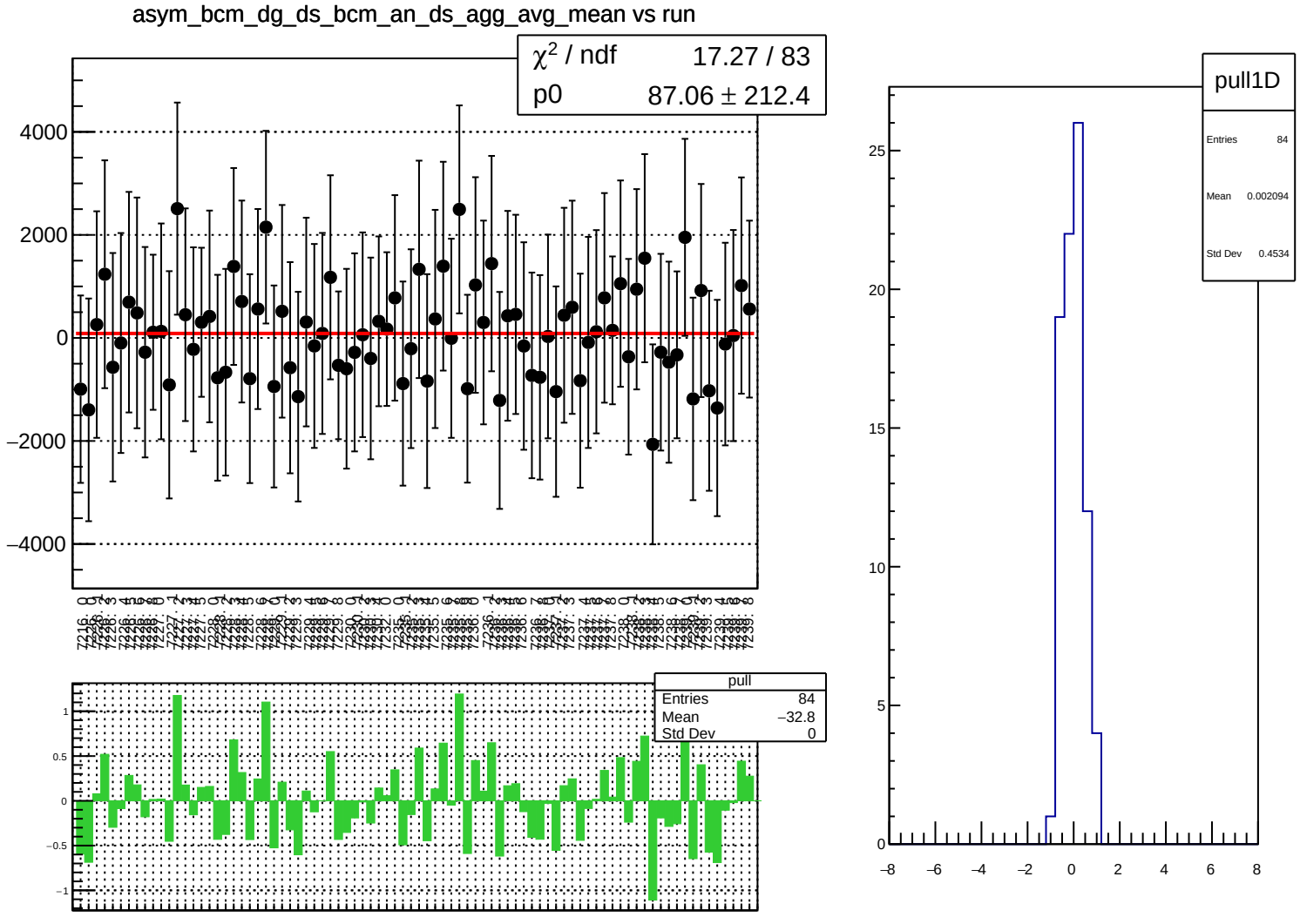

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 1.362e+04 / 83
p0 10.9 ± 0.00858
13
12.5
12
11.5
11
10.5
10
9.5
9

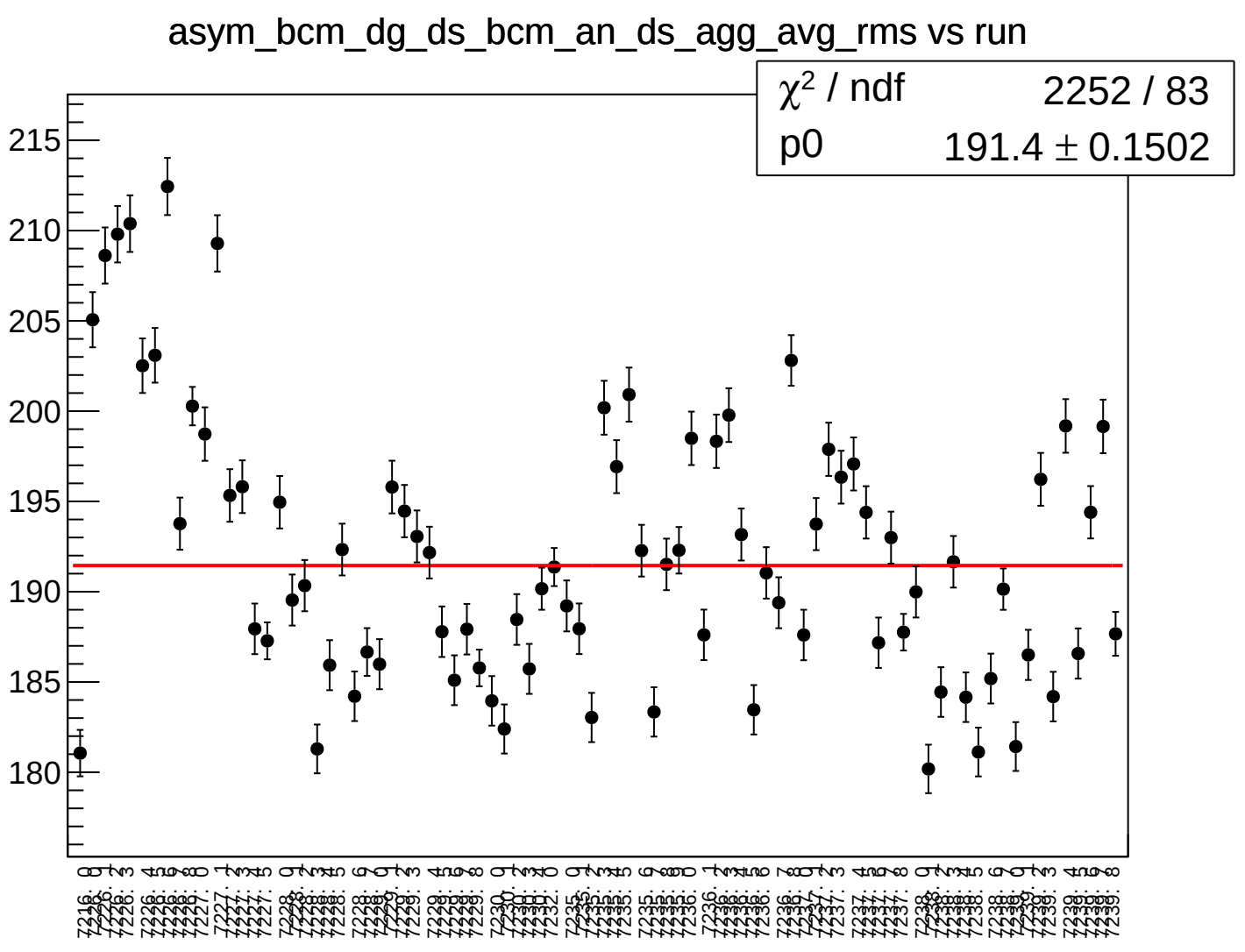

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 19.02 / 83
p0 80.4 ± 212.9
4000
2000
0
−2000
−4000
pull
Entries 84
Mean −196
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 84
Mean 0.002997
Std Dev 0.4759
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

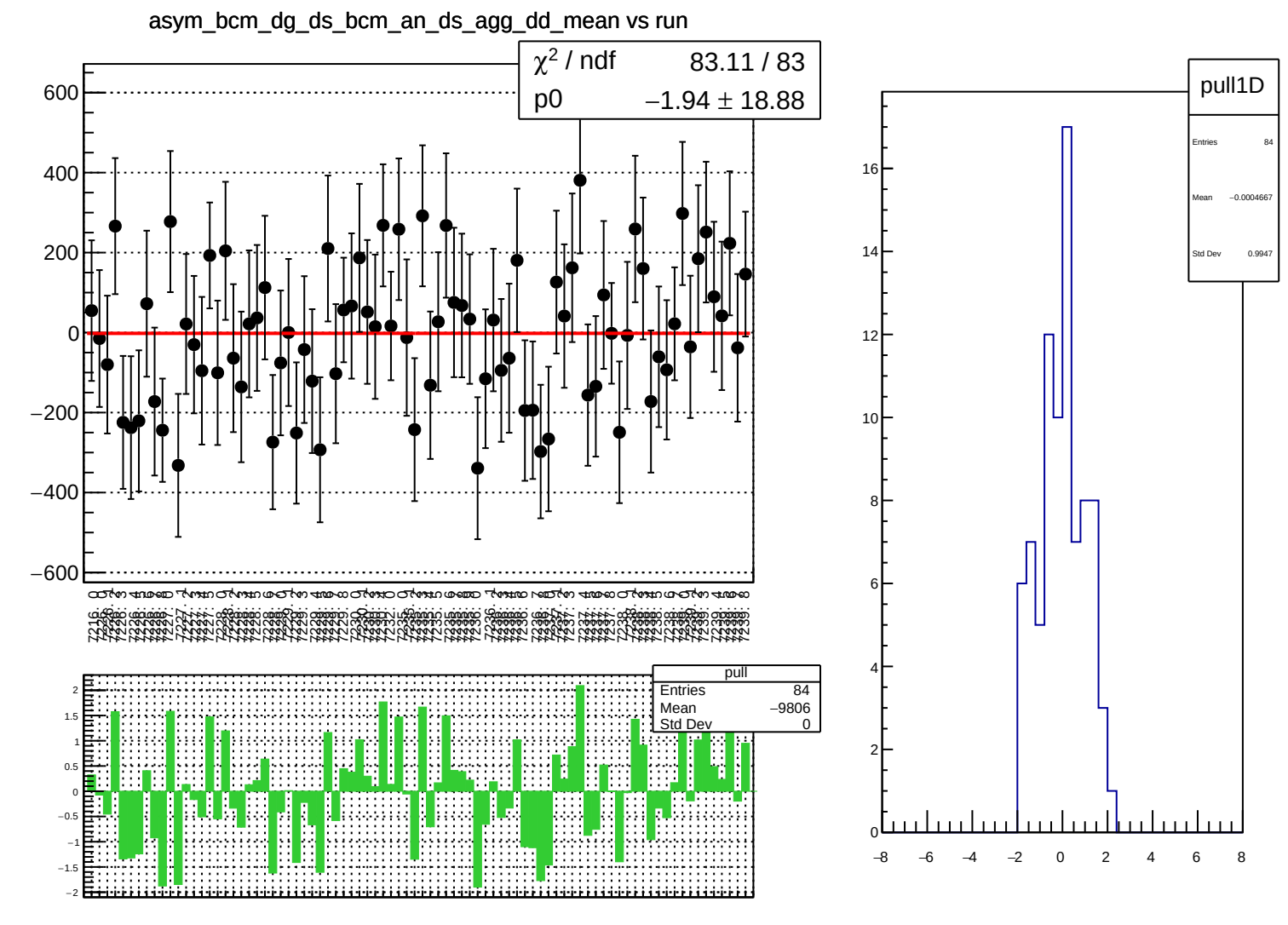

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2190 / 83
p0 191.9 ± 0.1505
215
210
205
200
195
190
185
180

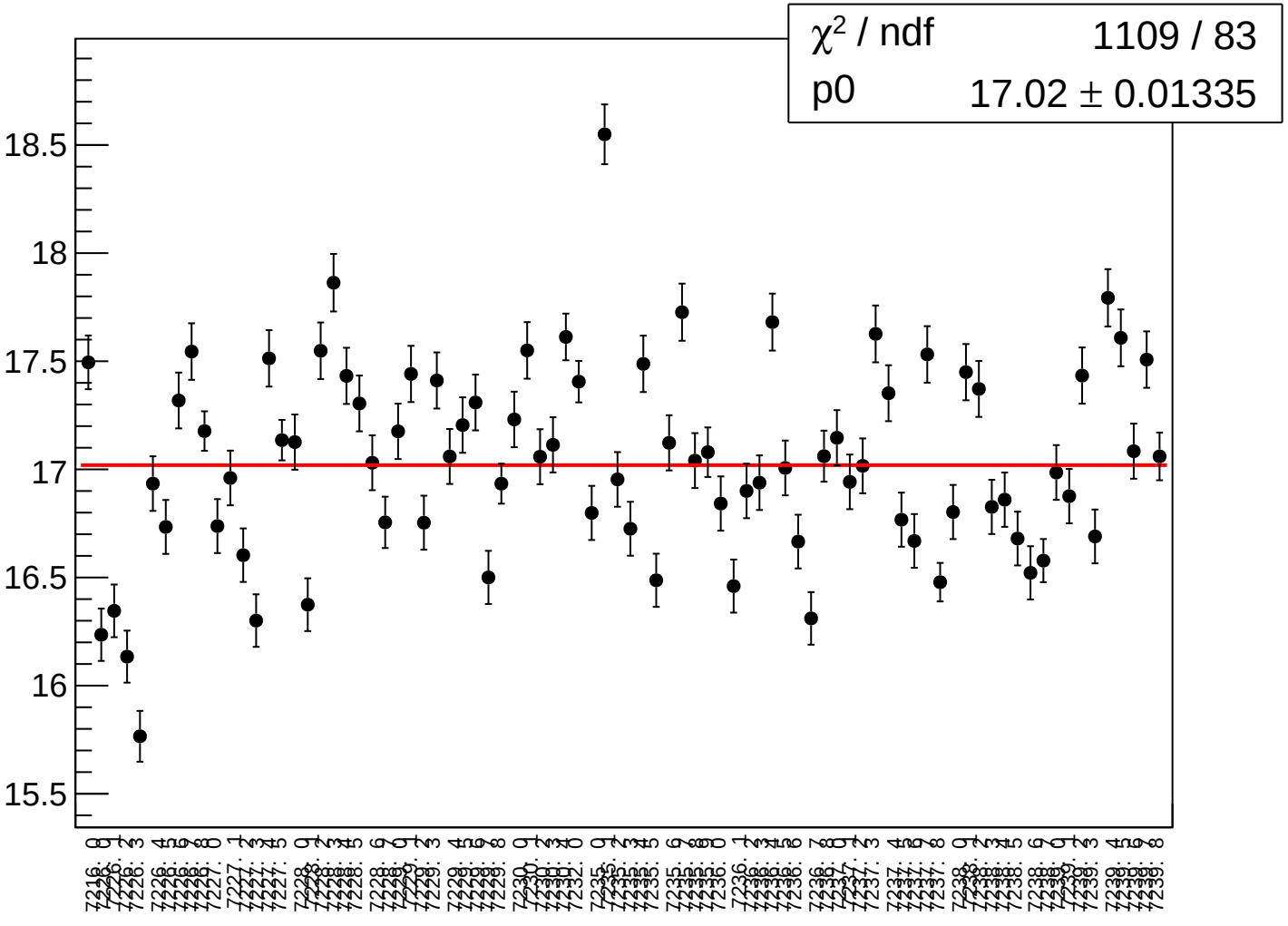

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 73.21 / 83
p0 −6.46 ± 26.35
pull
Entries 84
Mean −433
Std Dev 0
pull1D
Entries 84
Mean 0.002394
Std Dev 0.9336

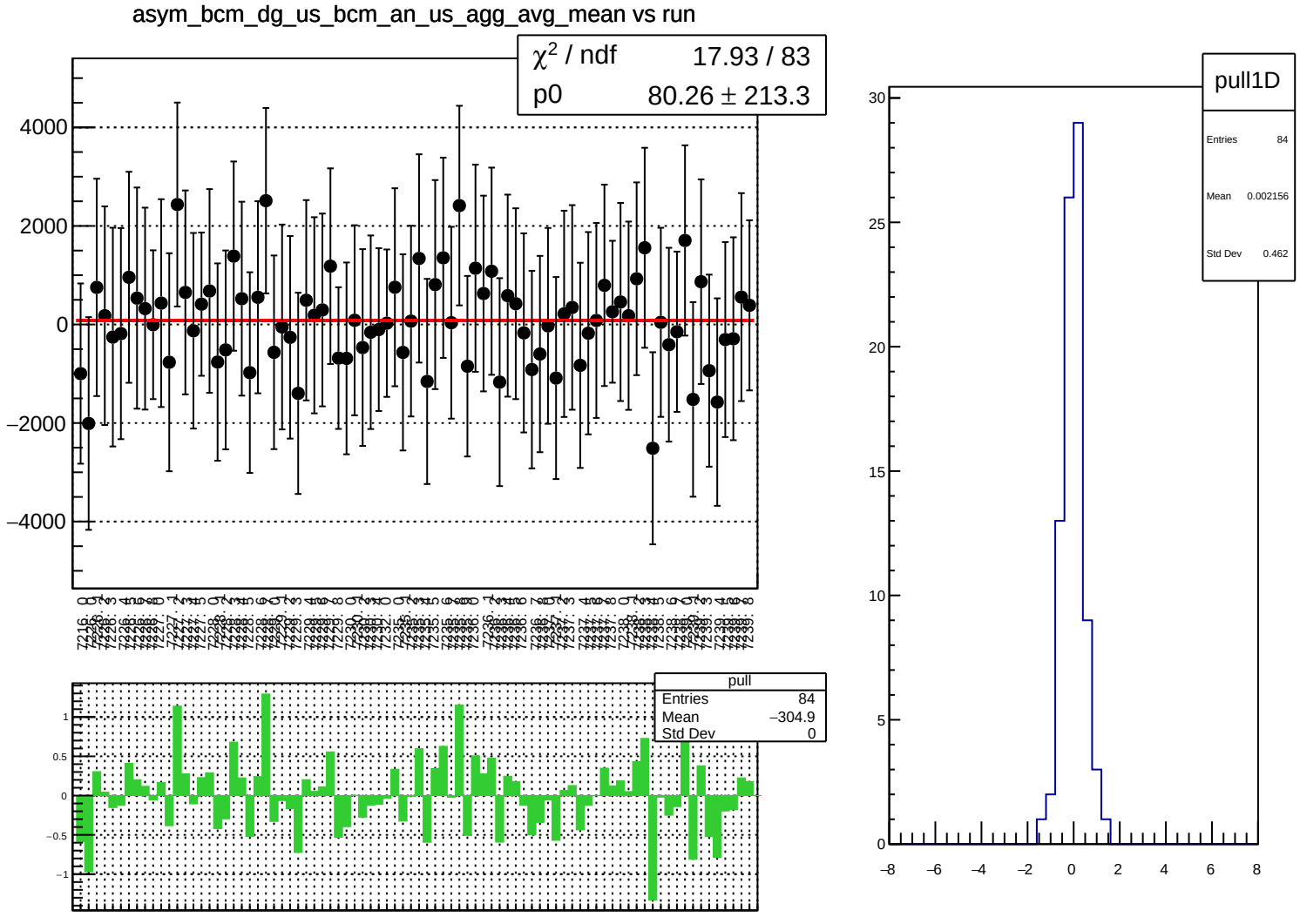

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1113 / 83
p0 23.76 ± 0.01863
26
25.5
25
24.5
24
23.5
23
22.5
22

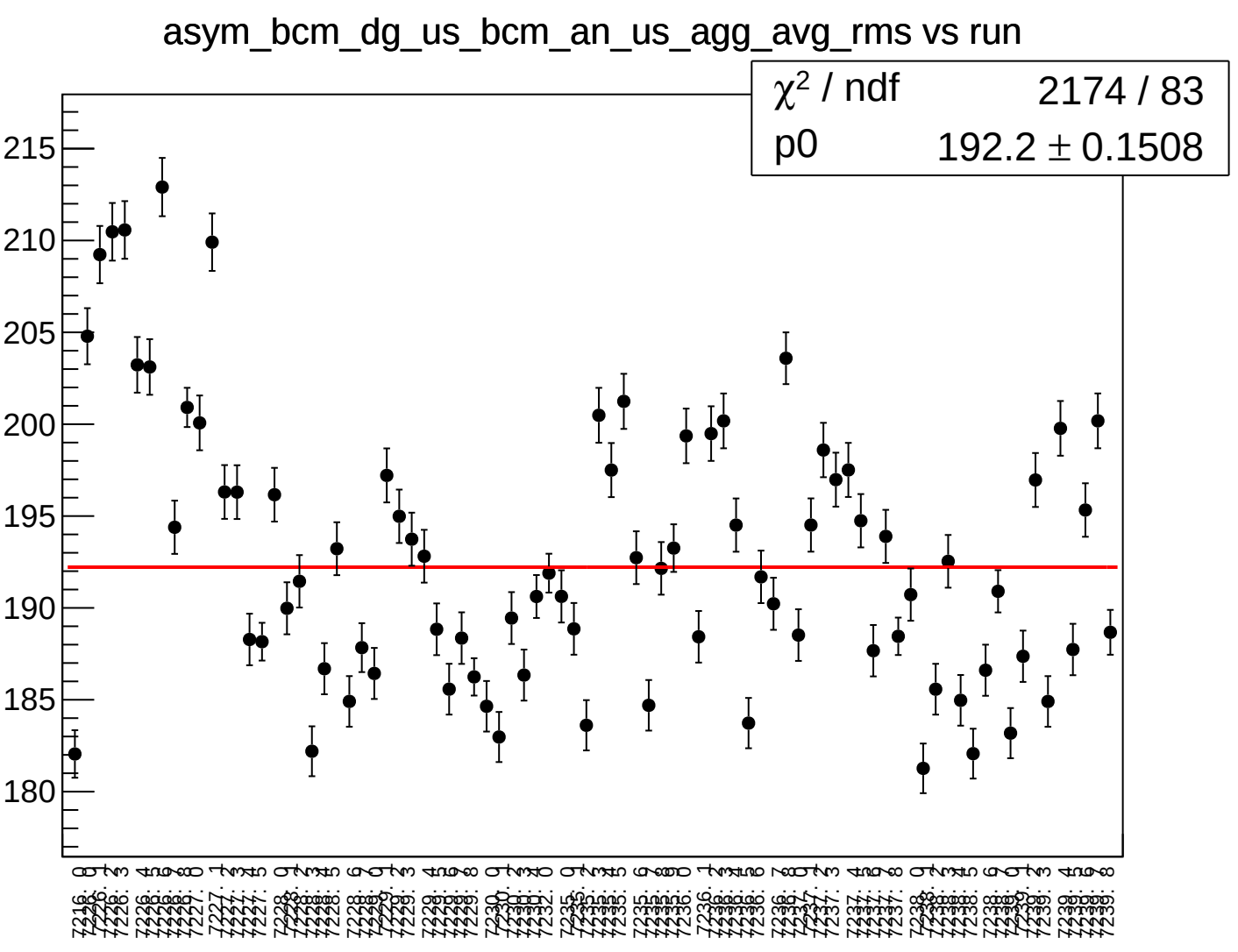

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 17.27 / 83
p0 87.06 ± 212.4
4000
2000
0
−2000
−4000
pull
Entries 84
Mean −32.8
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 84
Mean 0.002094
Std Dev 0.4534
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

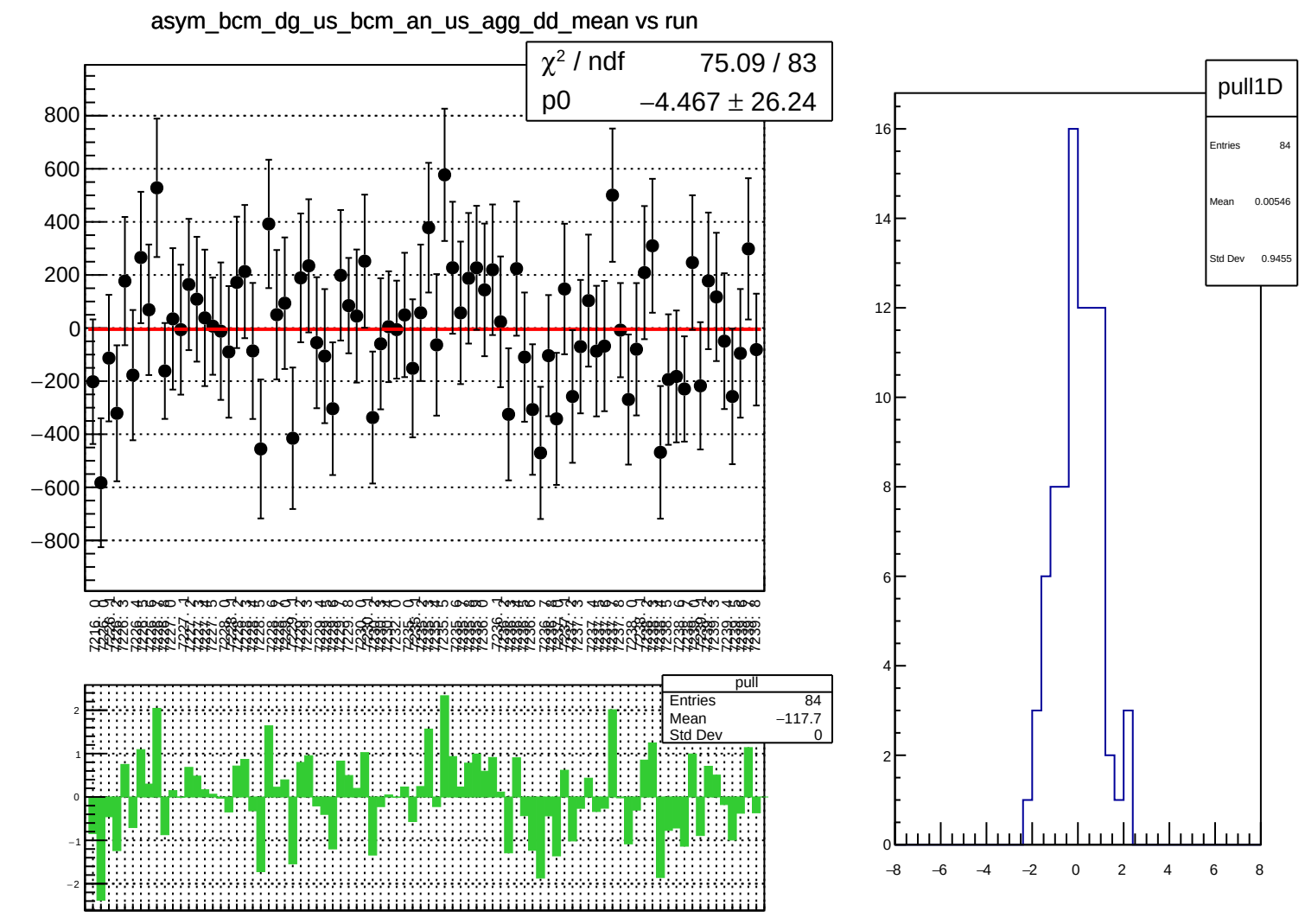

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2252 / 83
p0 191.4 ± 0.1502
215
210
205
200
195
190
185
180

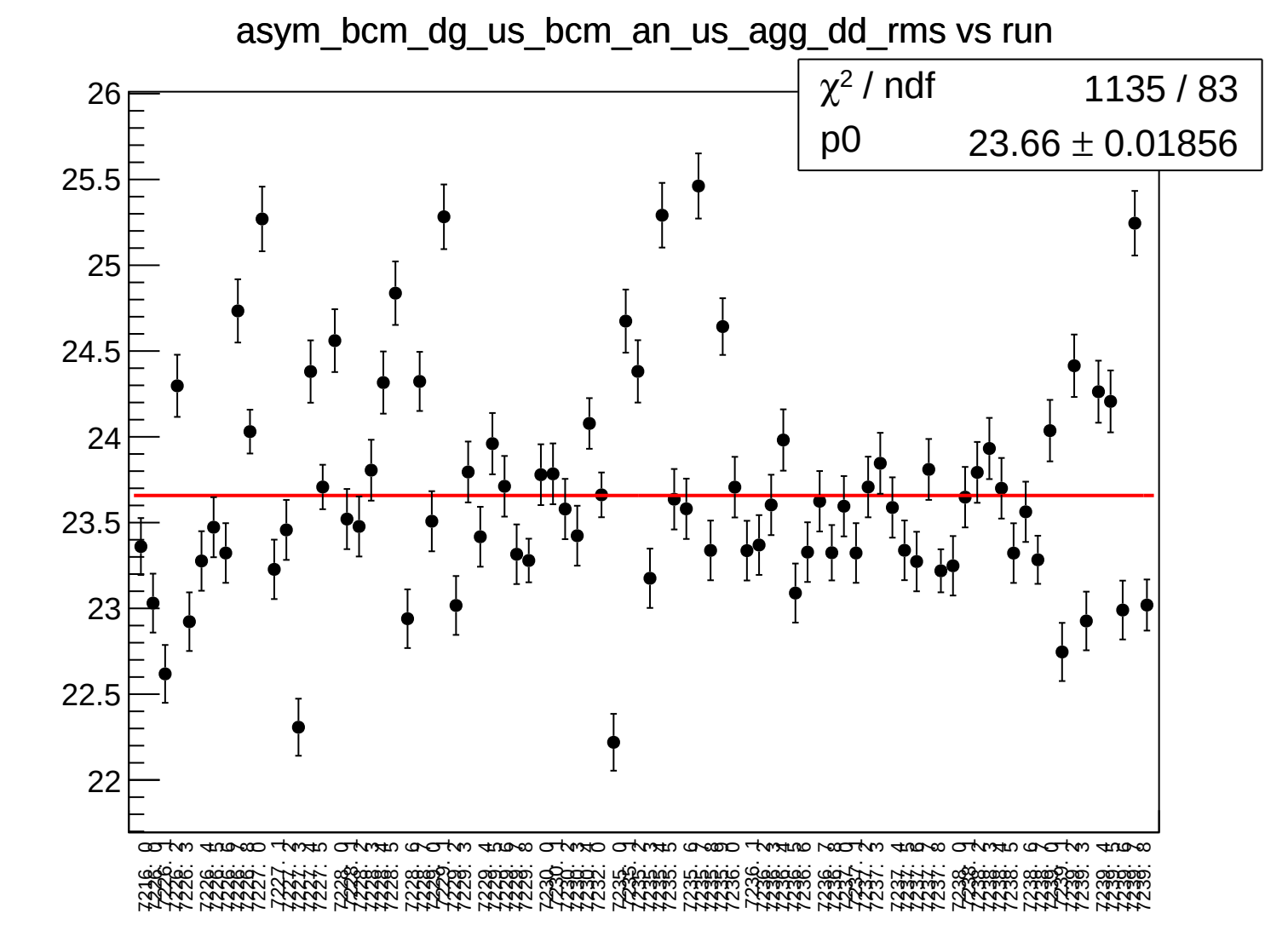

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 83.11 / 83
p0 −1.94 ± 18.88
pull
Entries 84
Mean −9806
Std Dev 0
pull1D
Entries 84
Mean −0.0004667
Std Dev 0.9947

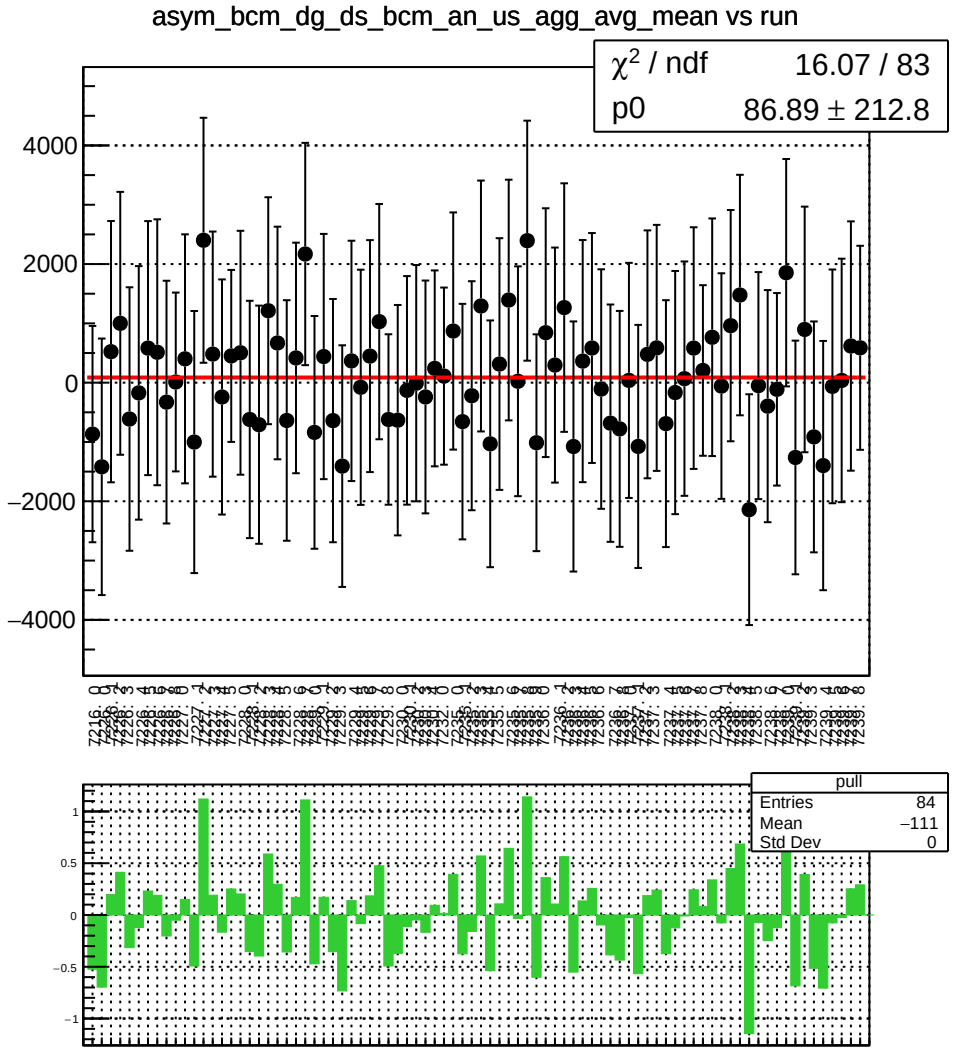

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1109 / 83
p0 17.02 ± 0.01335
18.5
18
17.5
17
16.5
16
15.5

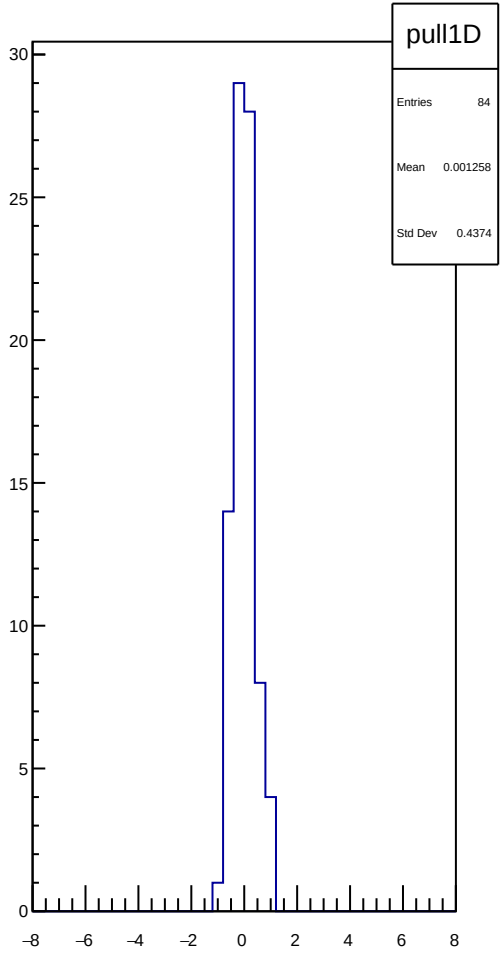

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 17.93 / 83
p0 80.26 ± 213.3
4000
2000
0
−2000
−4000
pull
Entries 84
Mean −304.9
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 84
Mean 0.002156
Std Dev 0.462
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

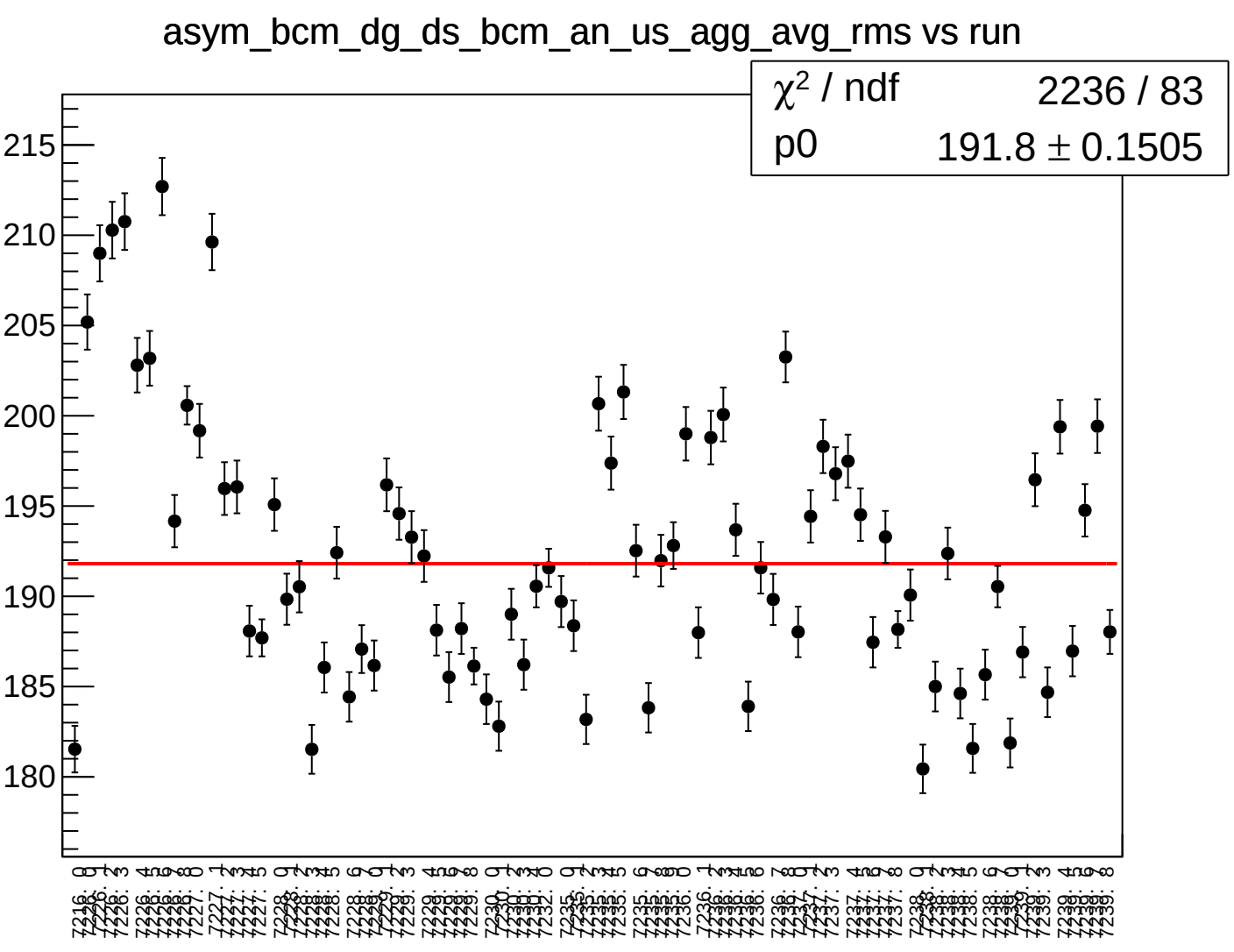

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2174 / 83
p0 192.2 ± 0.1508
215
210
205
200
195
190
185
180

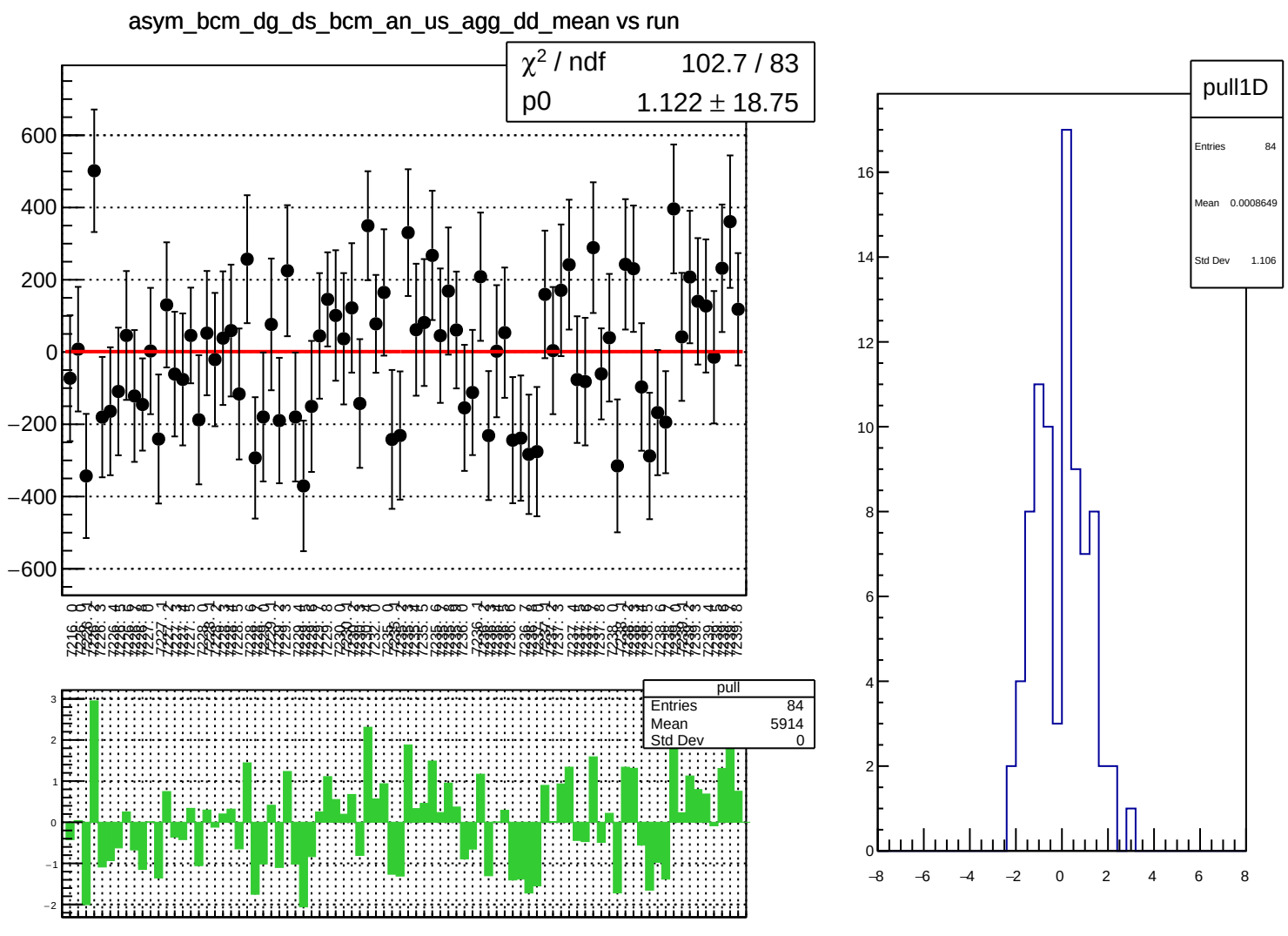

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 75.09 / 83
p0 −4.467 ± 26.24
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 84
Mean −117.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.00546
Std Dev 0.9455
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

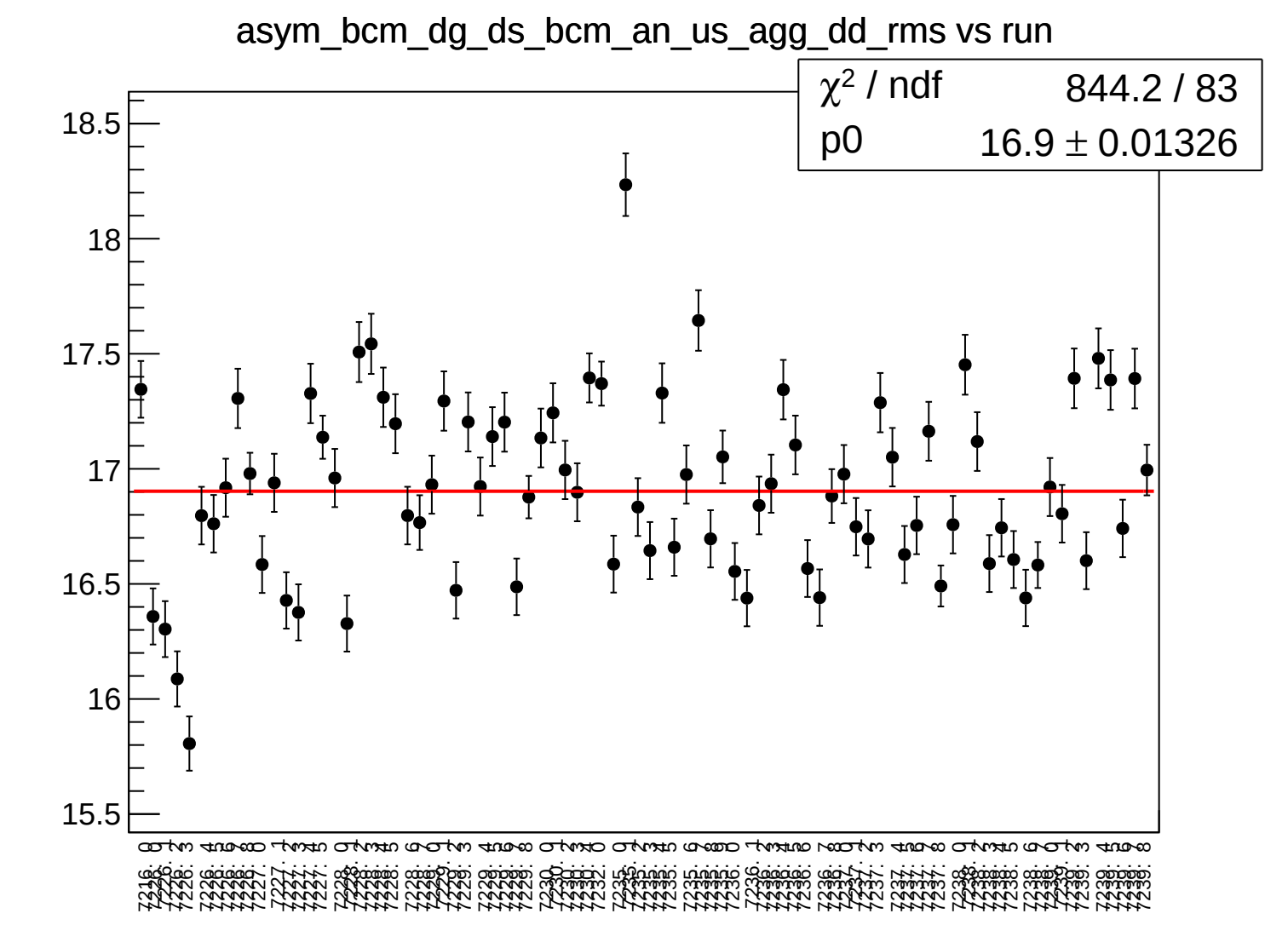

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1135 / 83
p0 23.66 ± 0.01856
26
25.5
25
24.5
24
23.5
23
22.5
22

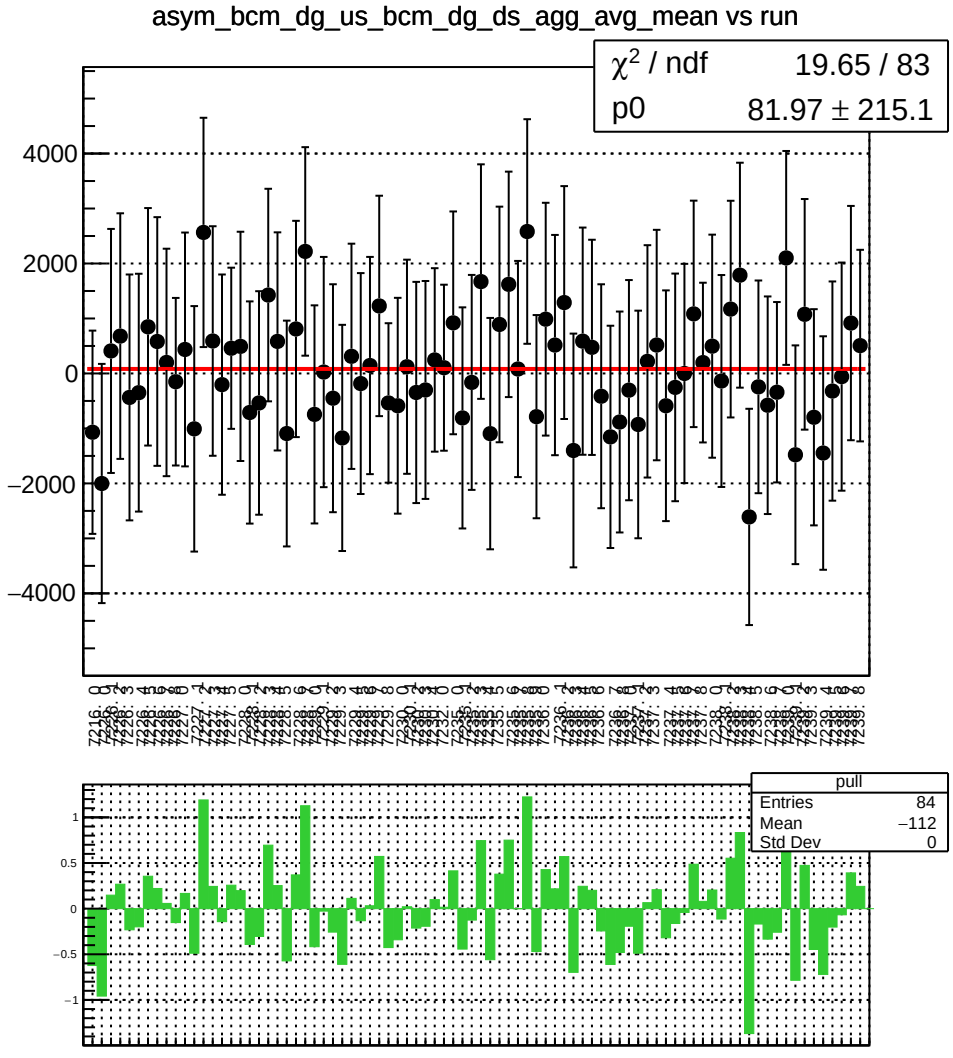

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 16.07 / 83
p0 86.89 ± 212.8
4000
2000
0
−2000
−4000
pull
Entries 84
Mean −111
Std Dev 0
1
0.5
0
−0.5
−1

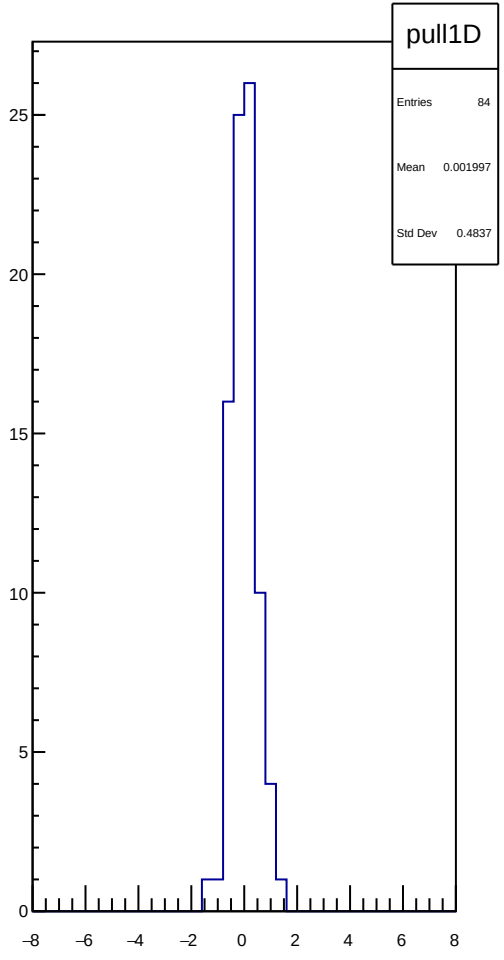

pull1D
Entries 84
Mean 0.001258
Std Dev 0.4374
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

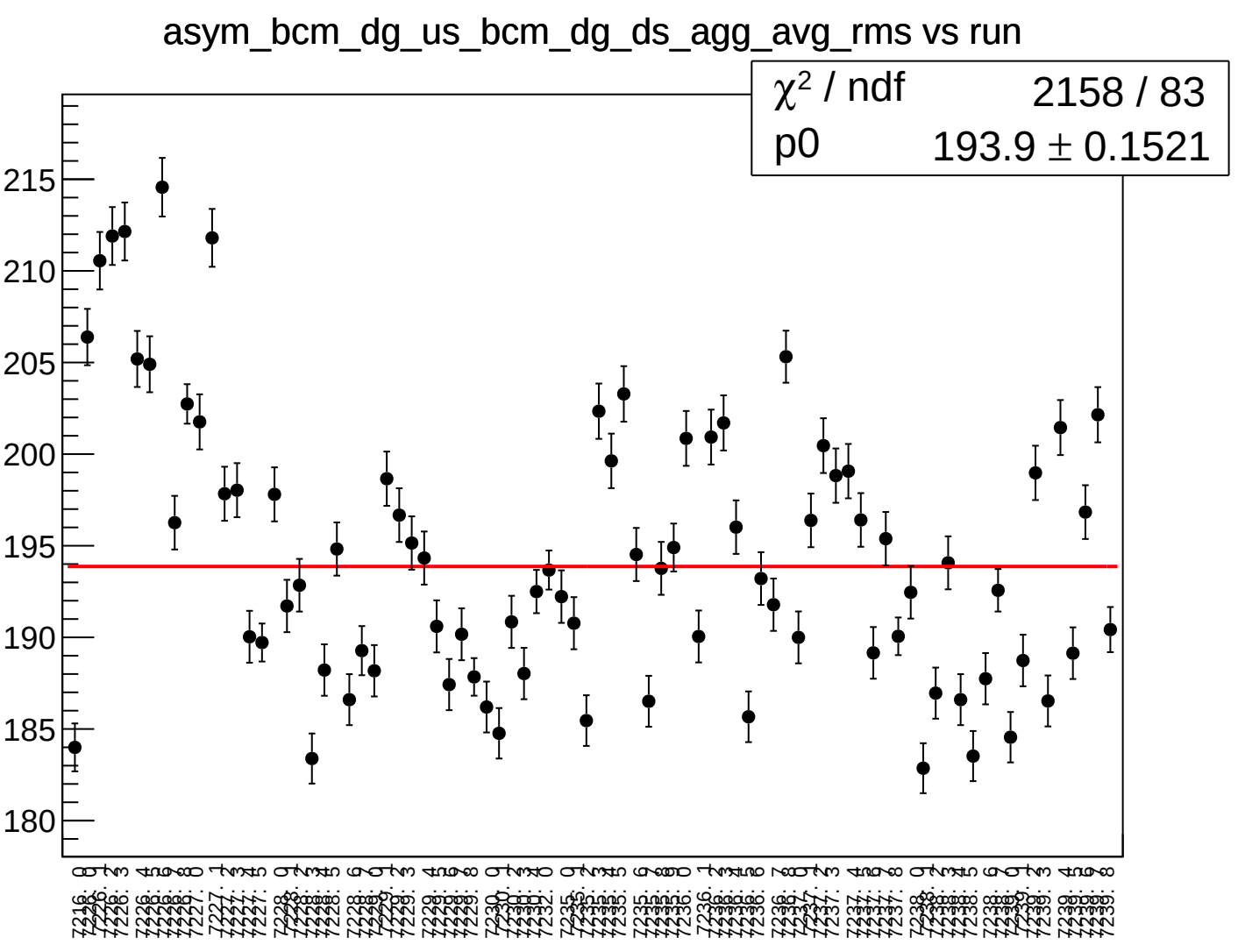

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2236 / 83
p0 191.8 ± 0.1505
215
210
205
200
195
190
185
180

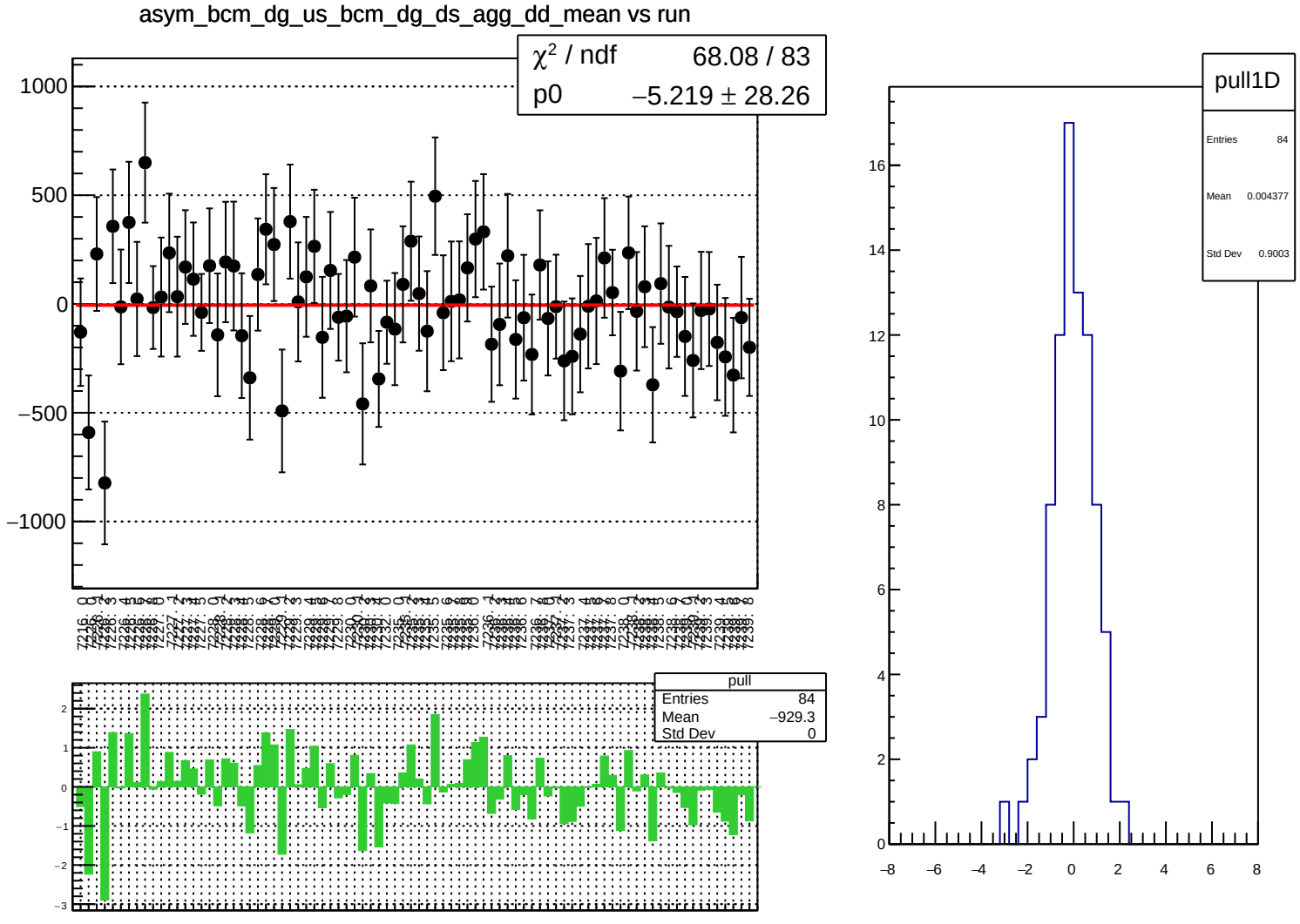

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 102.7 / 83
p0 1.122 ± 18.75
pull
Entries 84
Mean 5914
Std Dev 0
pull1D
Entries 84
Mean 0.0008649
Std Dev 1.106

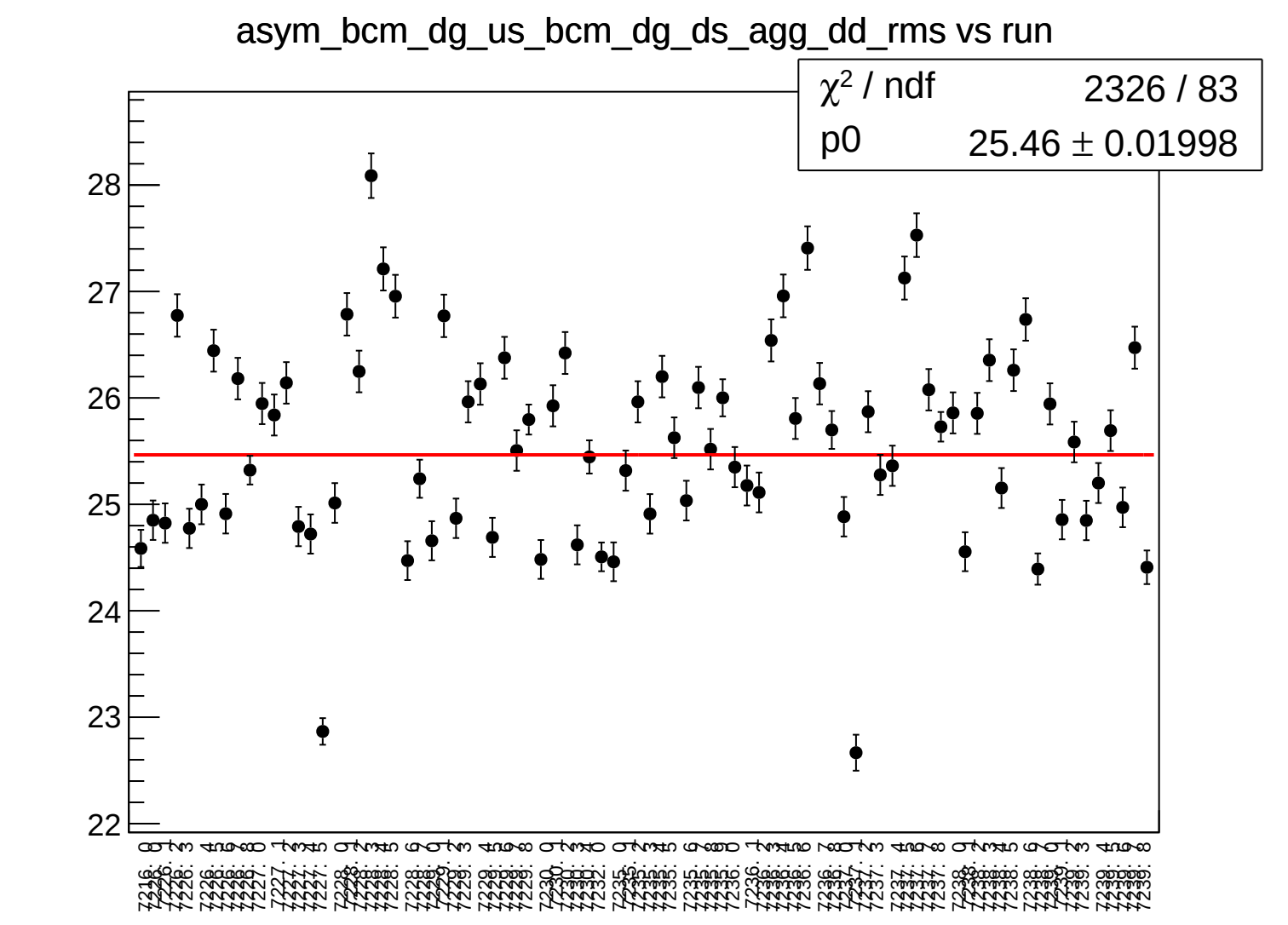

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 844.2 / 83
p0 16.9 ± 0.01326
18.5
18
17.5
17
16.5
16
15.5

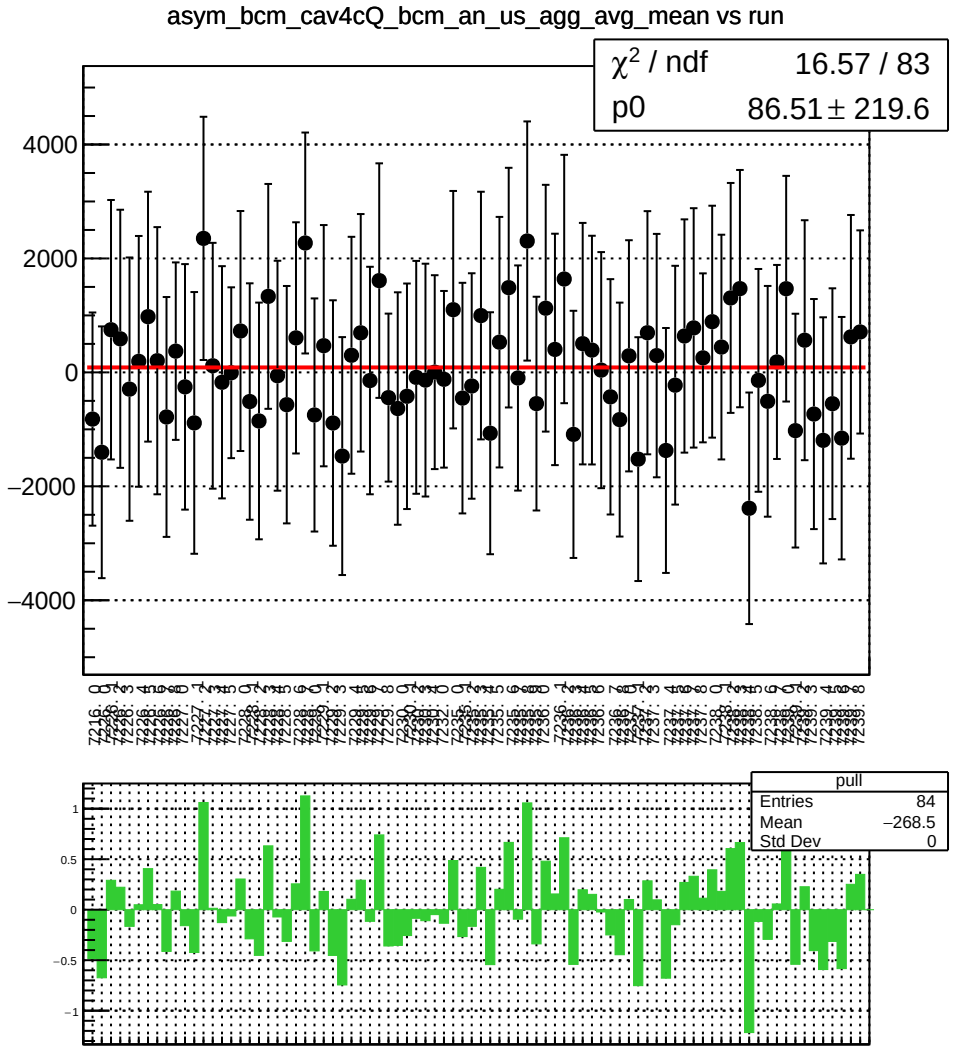

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 19.65 / 83
p0 81.97 ± 215.1
4000
2000
0
−2000
−4000
pull
Entries 84
Mean −112
Std Dev 0
1
0.5
0
−0.5
−1

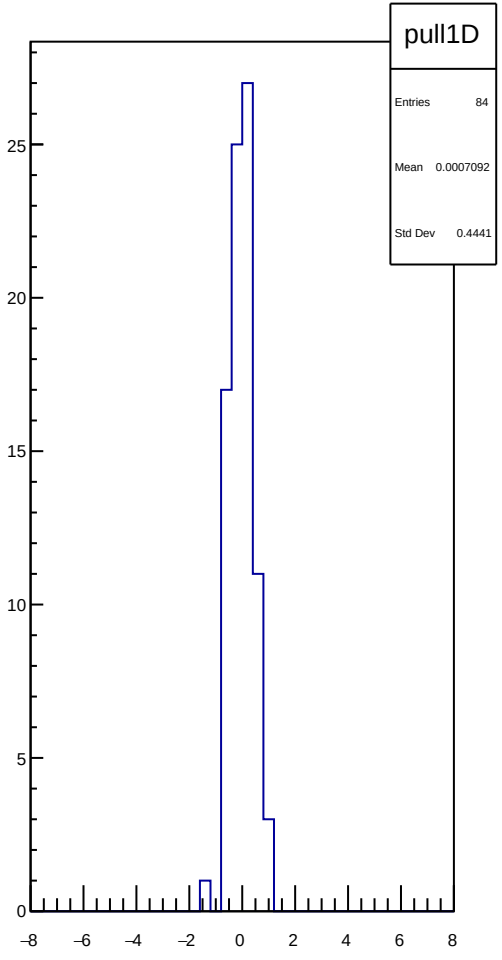

pull1D
Entries 84
Mean 0.001997
Std Dev 0.4837
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

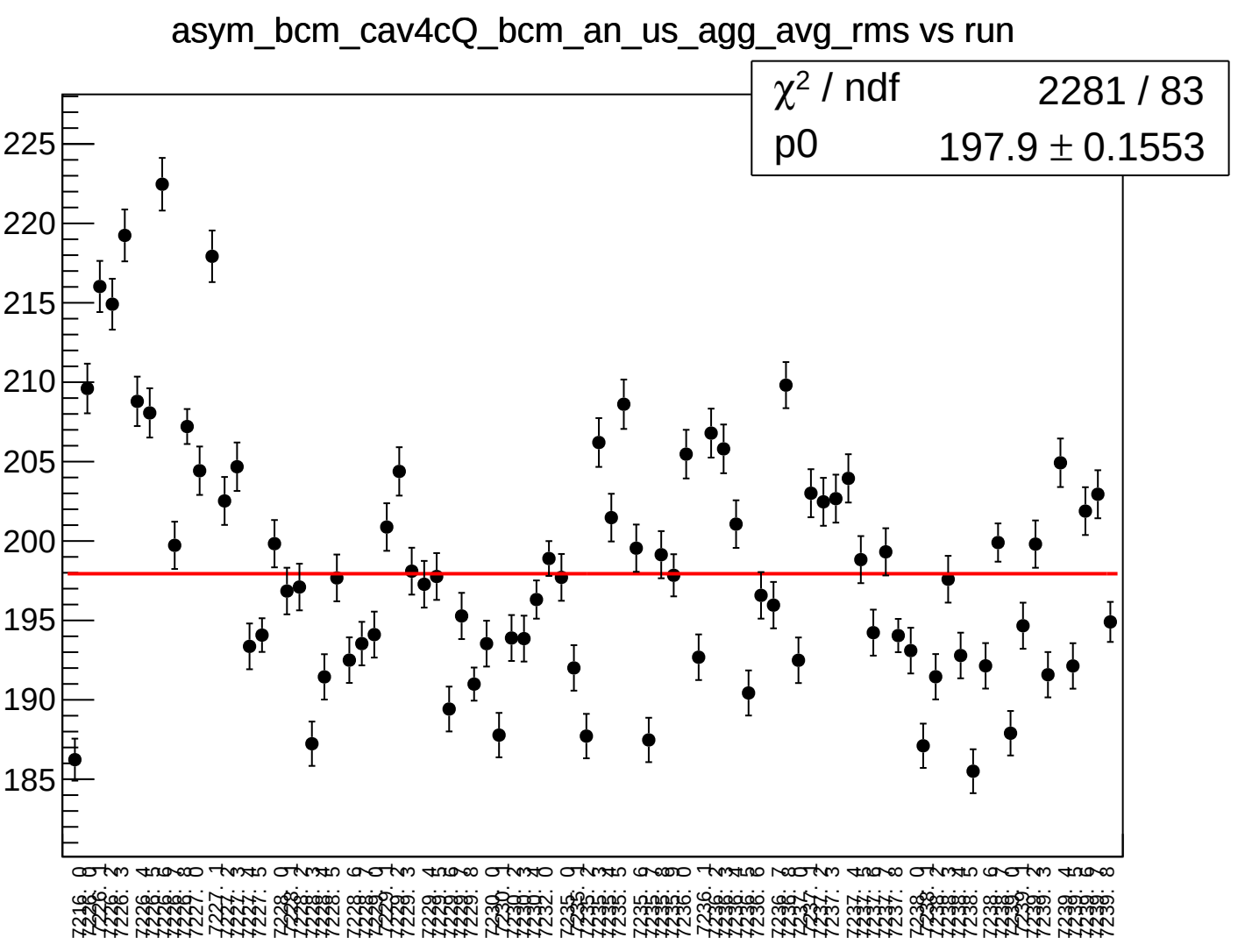

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 2158 / 83
p0 193.9 ± 0.1521
215
210
205
200
195
190
185
180

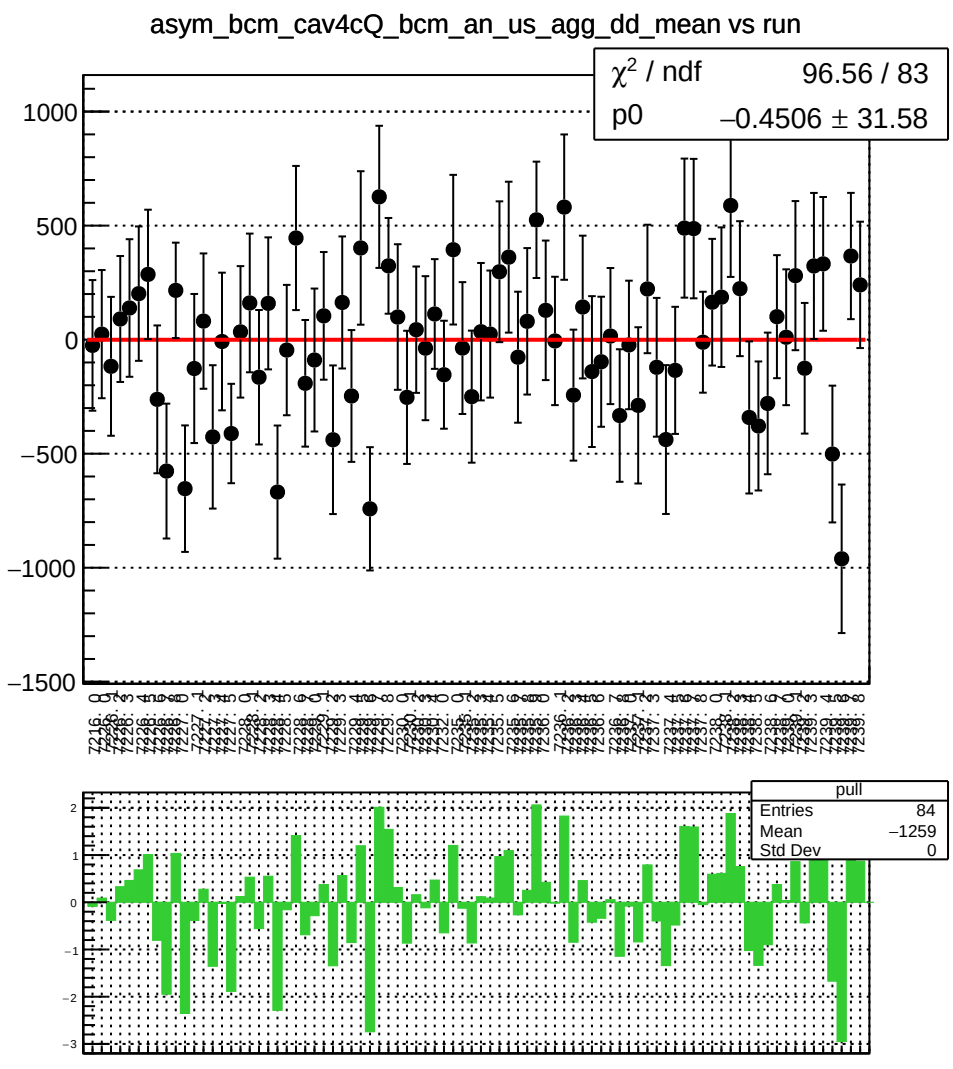

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 68.08 / 83
p0 −5.219 ± 28.26
1000
500
0
−500
−1000
pull
Entries 84
Mean −929.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean 0.004377
Std Dev 0.9003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

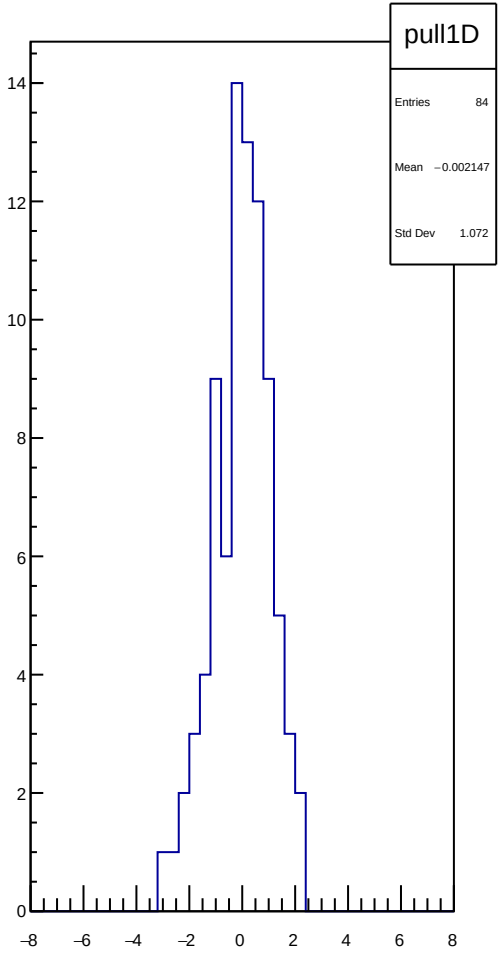

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2326 / 83
p0 25.46 ± 0.01998
28
27
26
25
24
23
22

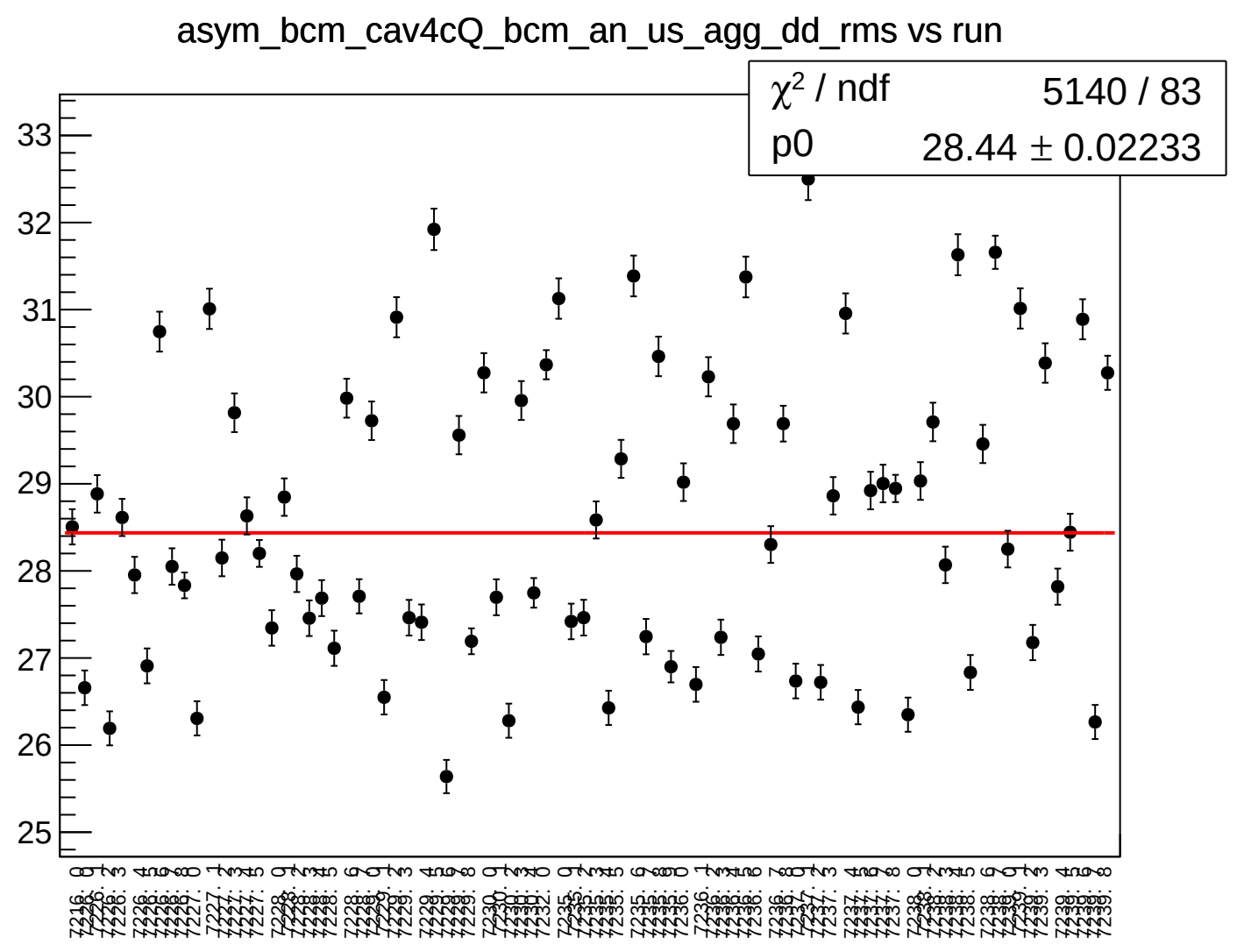

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 16.57 / 83
p0 86.51 ± 219.6
4000
2000
0
−2000
−4000
pull
Entries 84
Mean −268.5
Std Dev 0
1
0.5
0
−0.5
−1

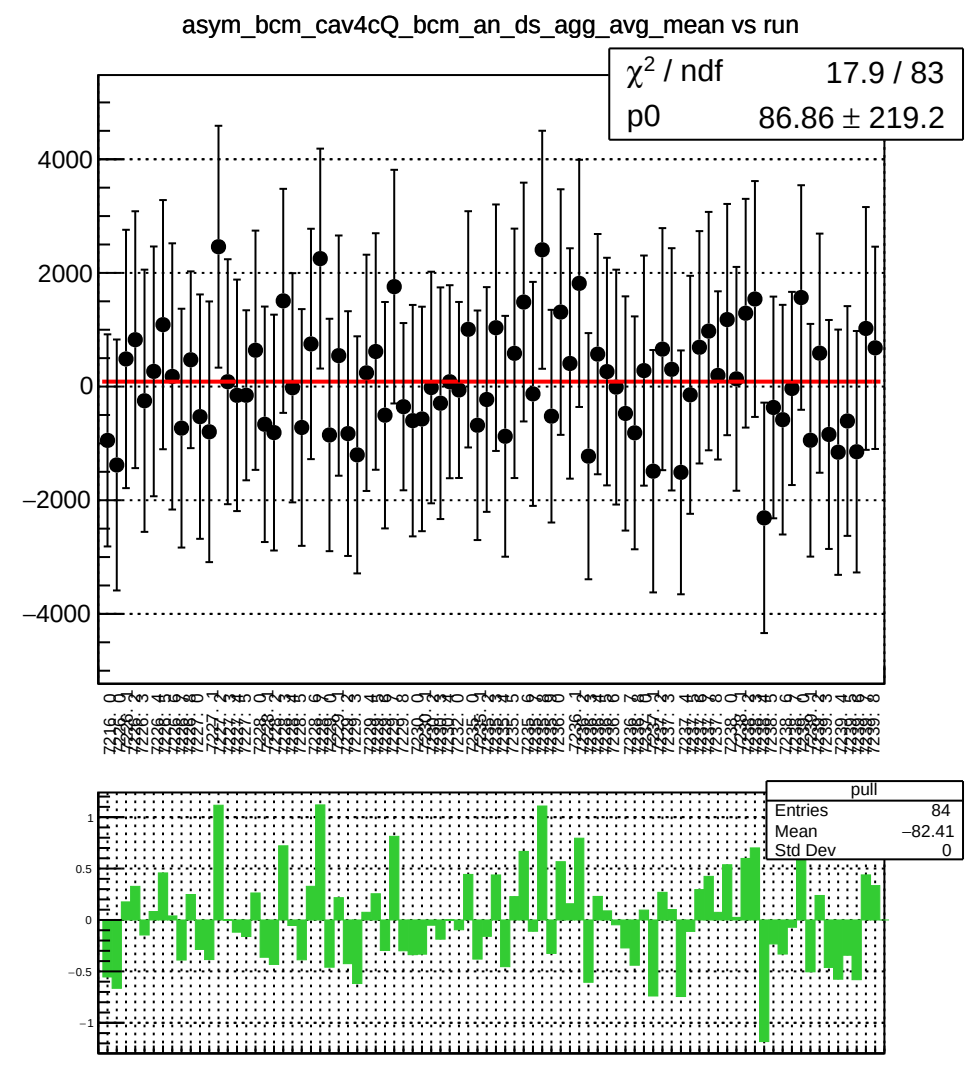

pull1D
Entries 84
Mean 0.0007092
Std Dev 0.4441
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

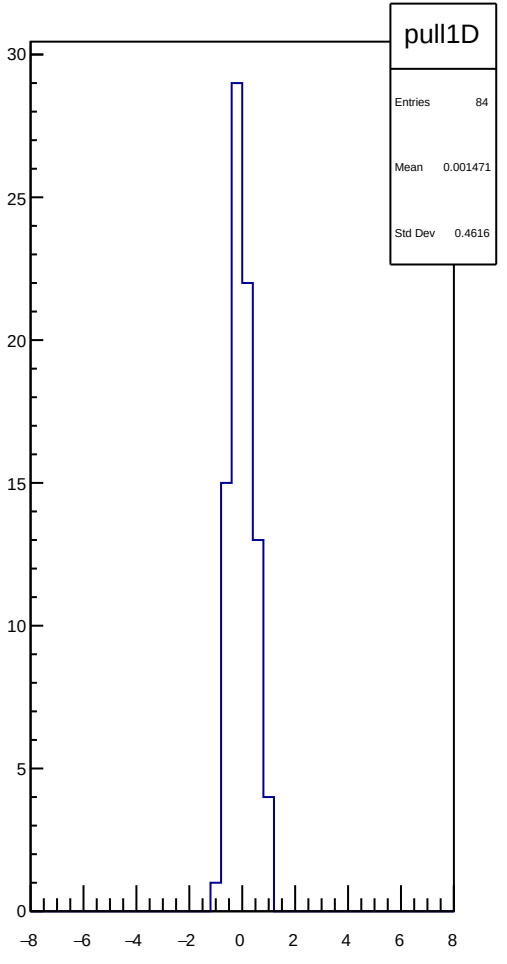

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2281 / 83
p0 197.9 ± 0.1553
225
220
215
210
205
200
195
190
185

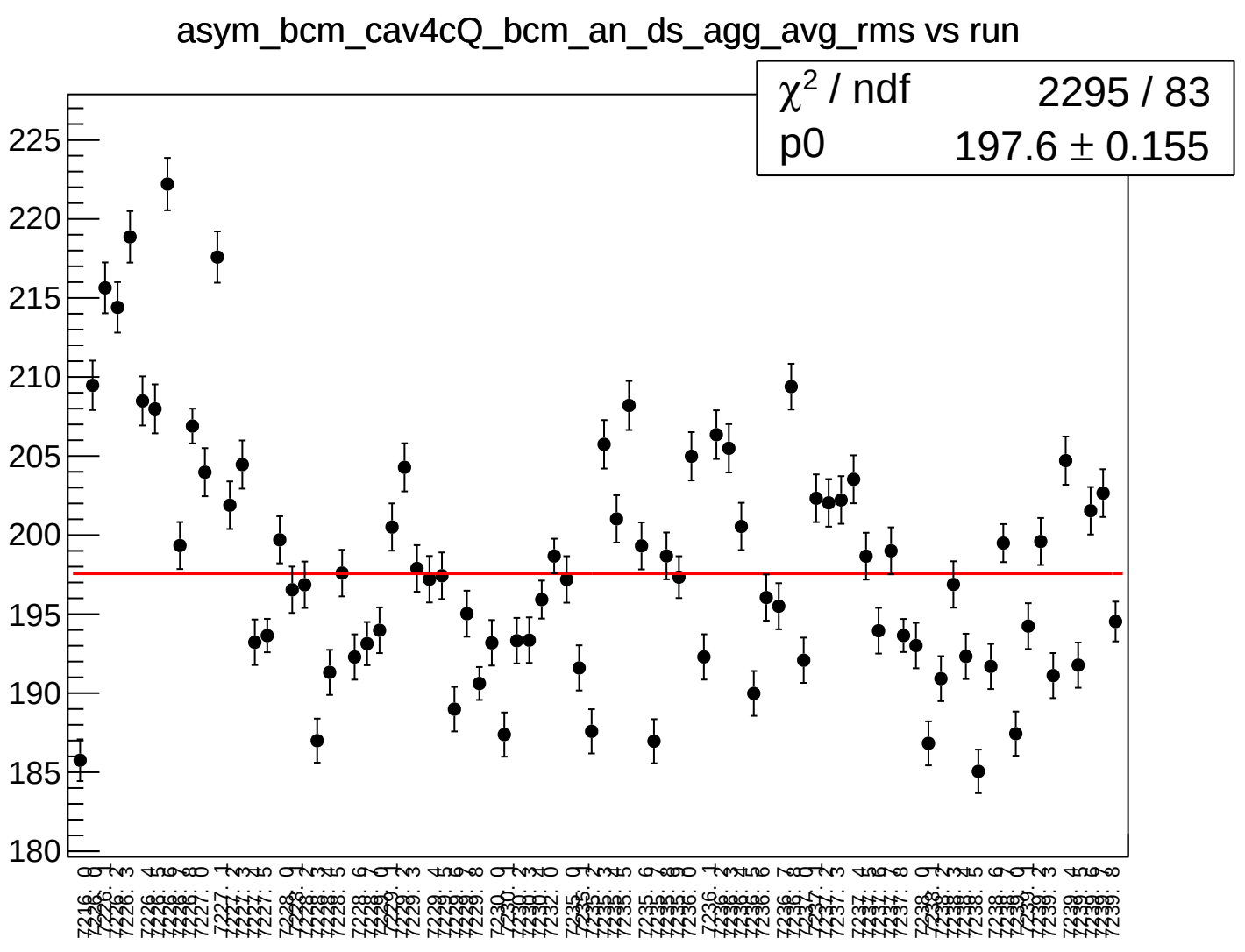

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 96.56 / 83
p0 −0.4506 ± 31.58
1000
500
0
−500
−1000
−1500
pull
Entries 84
Mean −1259
Std Dev 0
2
1
0
−1
−2
−3

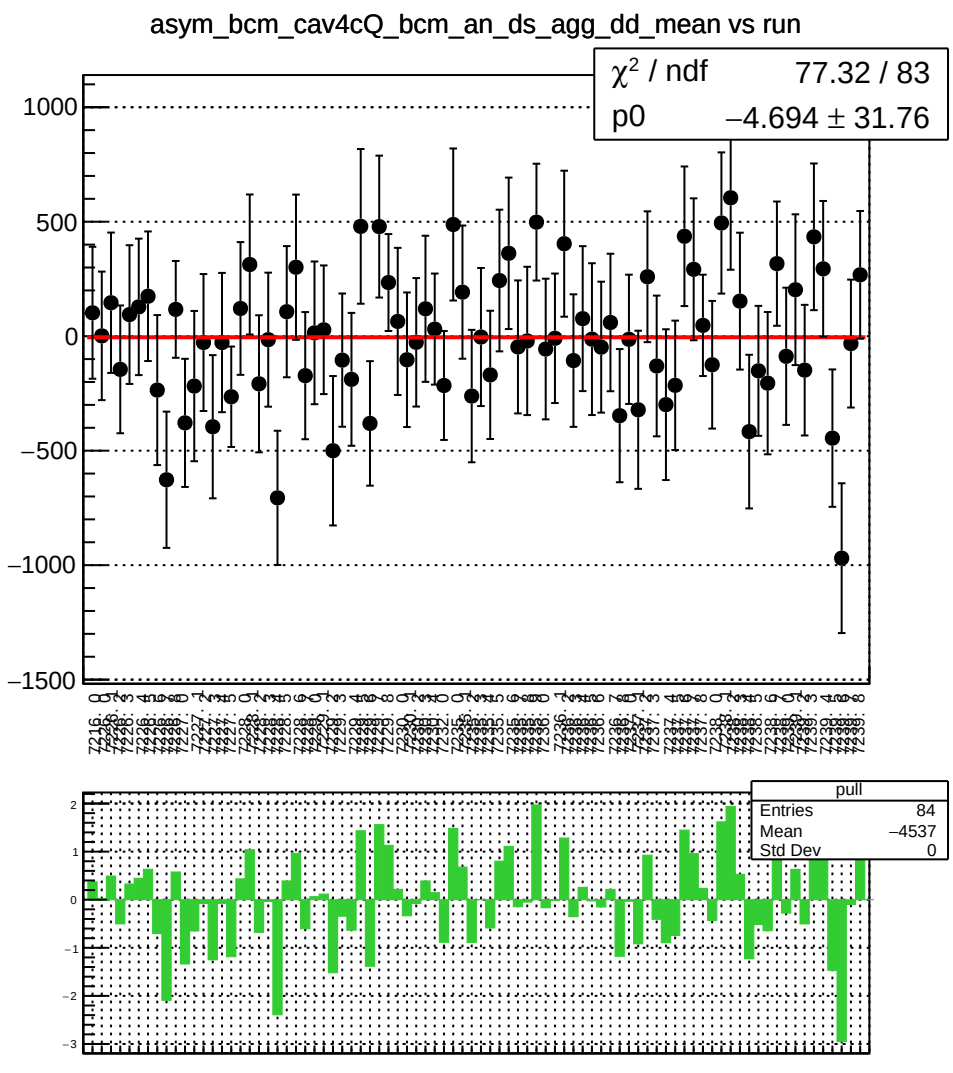

pull1D
Entries 84
Mean −0.002147
Std Dev 1.072
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

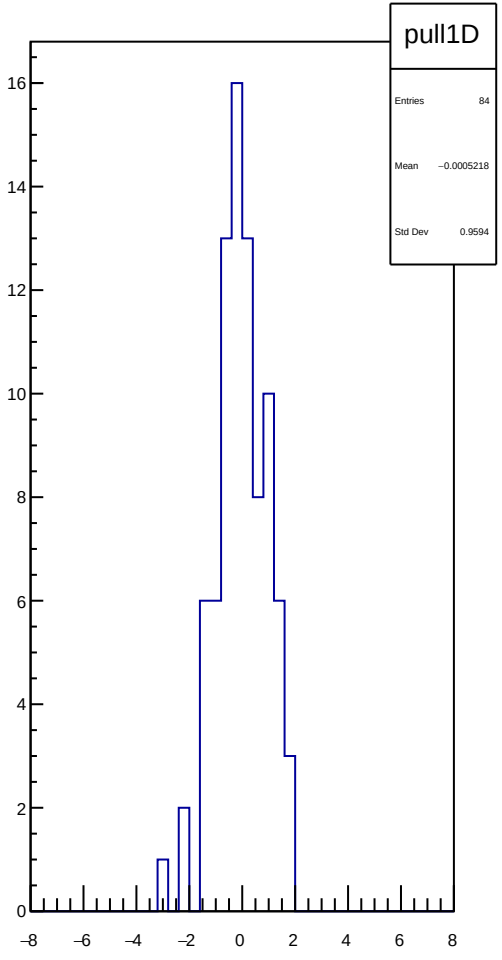

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 5140 / 83
p0 28.44 ± 0.02233
33
32
31
30
29
28
27
26
25

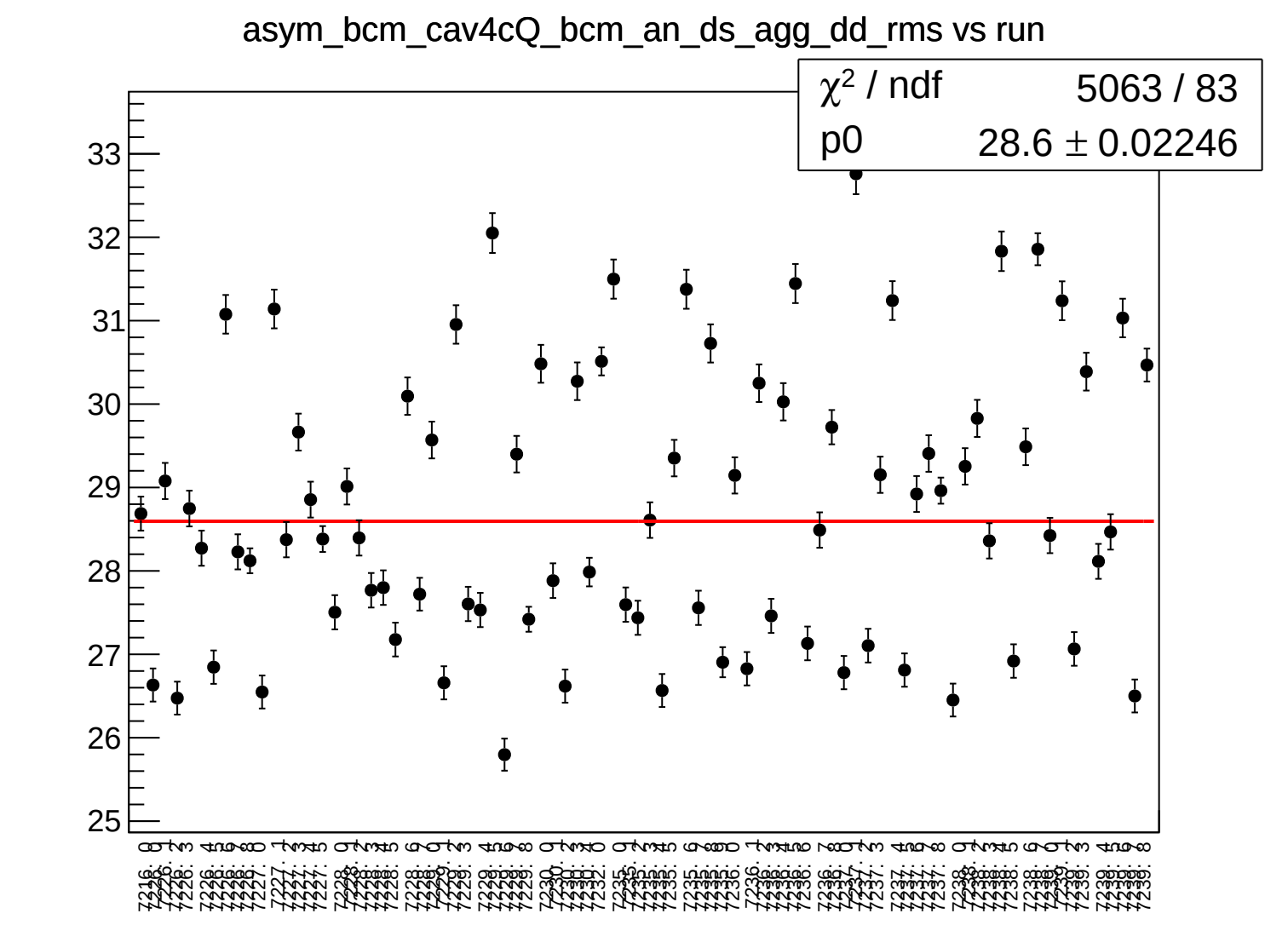

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 17.9 / 83
p0 86.86 ± 219.2
4000
2000
0
−2000
−4000
pull
Entries 84
Mean −82.41
Std Dev 0
1
0.5
0
−0.5
−1

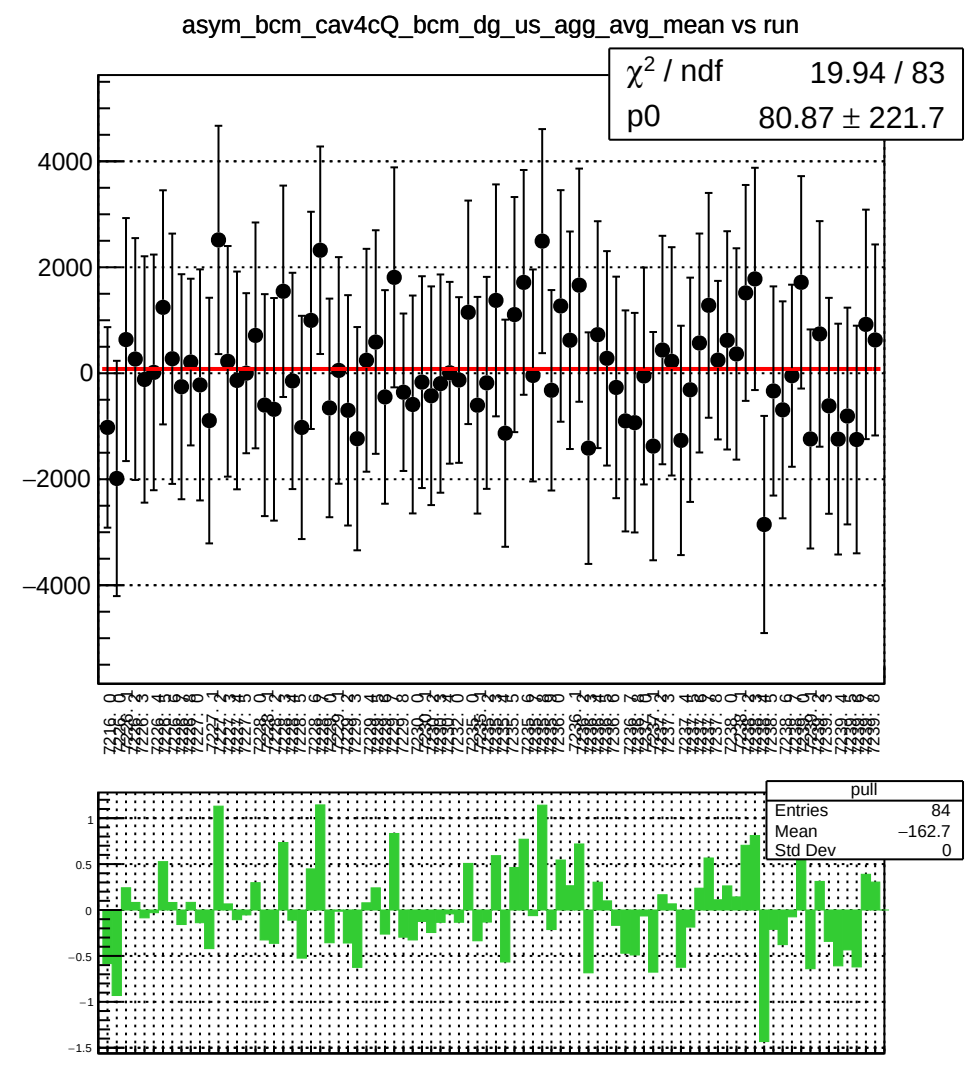

pull1D
Entries 84
Mean 0.001471
Std Dev 0.4616
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

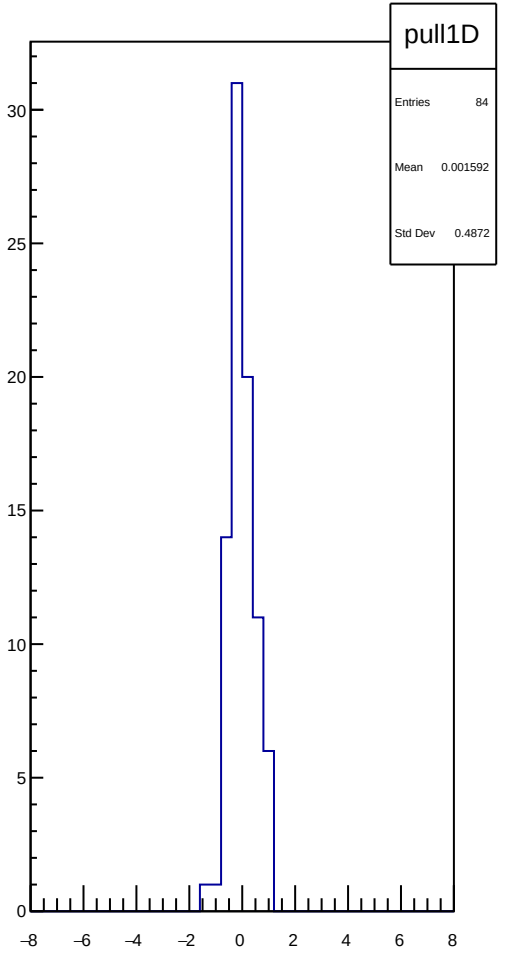

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2295 / 83
p0 197.6 ± 0.155
225
220
215
210
205
200
195
190
185
180

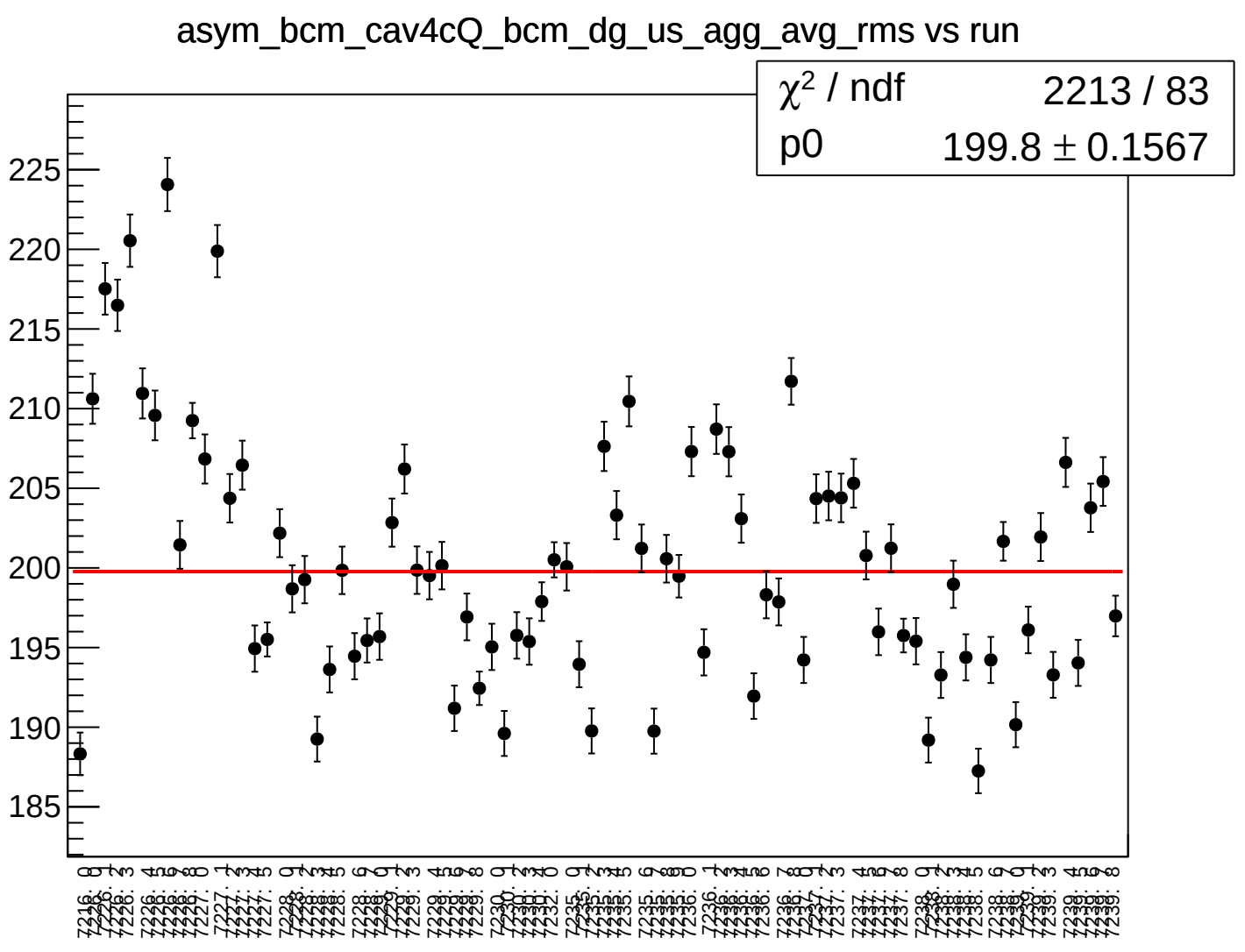

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 77.32 / 83
p0 −4.694 ± 31.76
1000
500
0
−500
−1000
−1500
pull
Entries 84
Mean −4537
Std Dev 0
2
1
0
−1
−2
−3

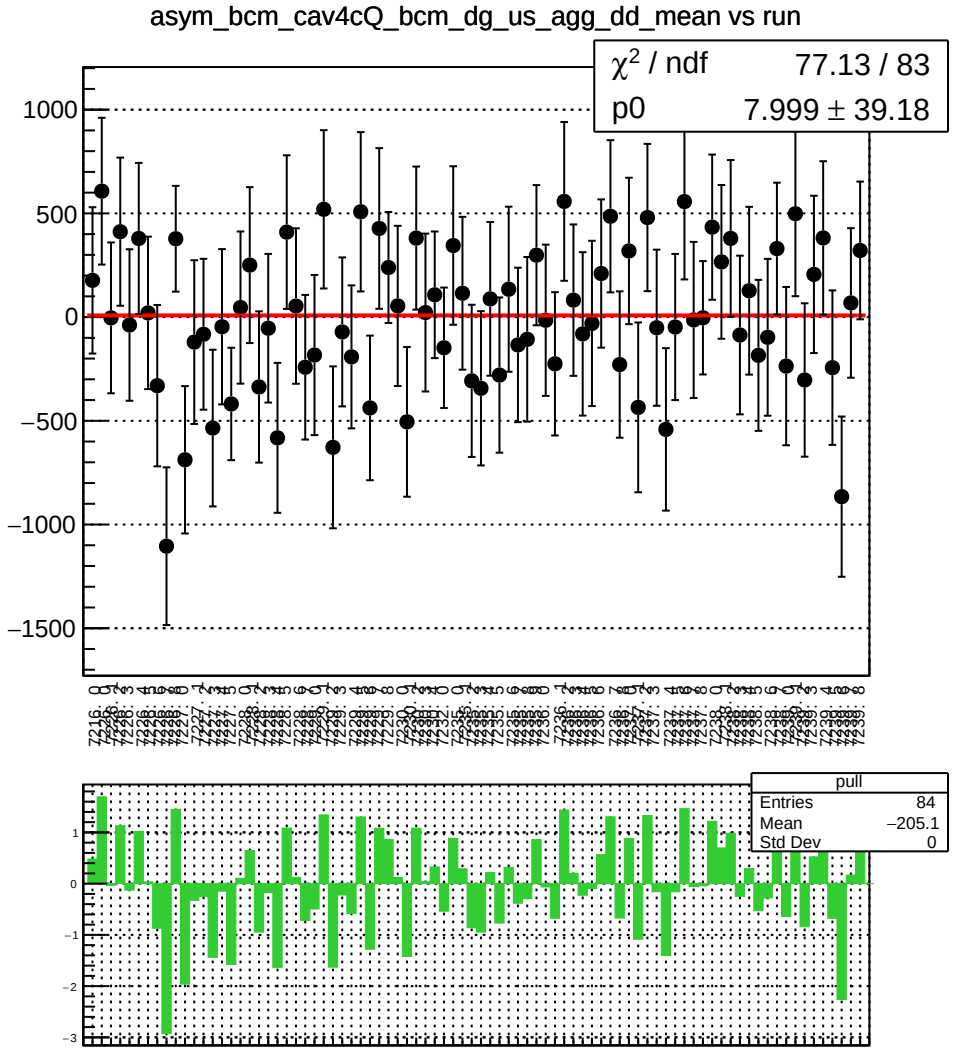

pull1D
Entries 84
Mean −0.0005218
Std Dev 0.9594
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

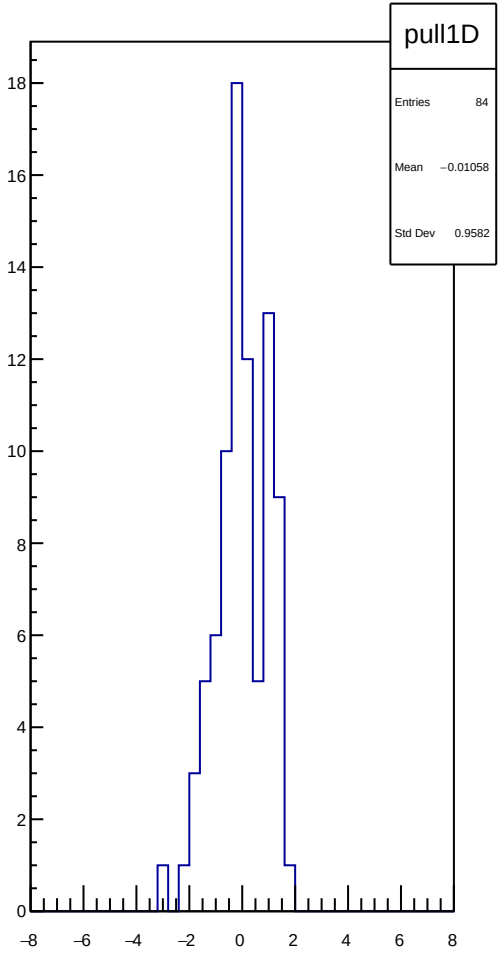

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 5063 / 83
p0 28.6 ± 0.02246
33
32
31
30
29
28
27
26
25

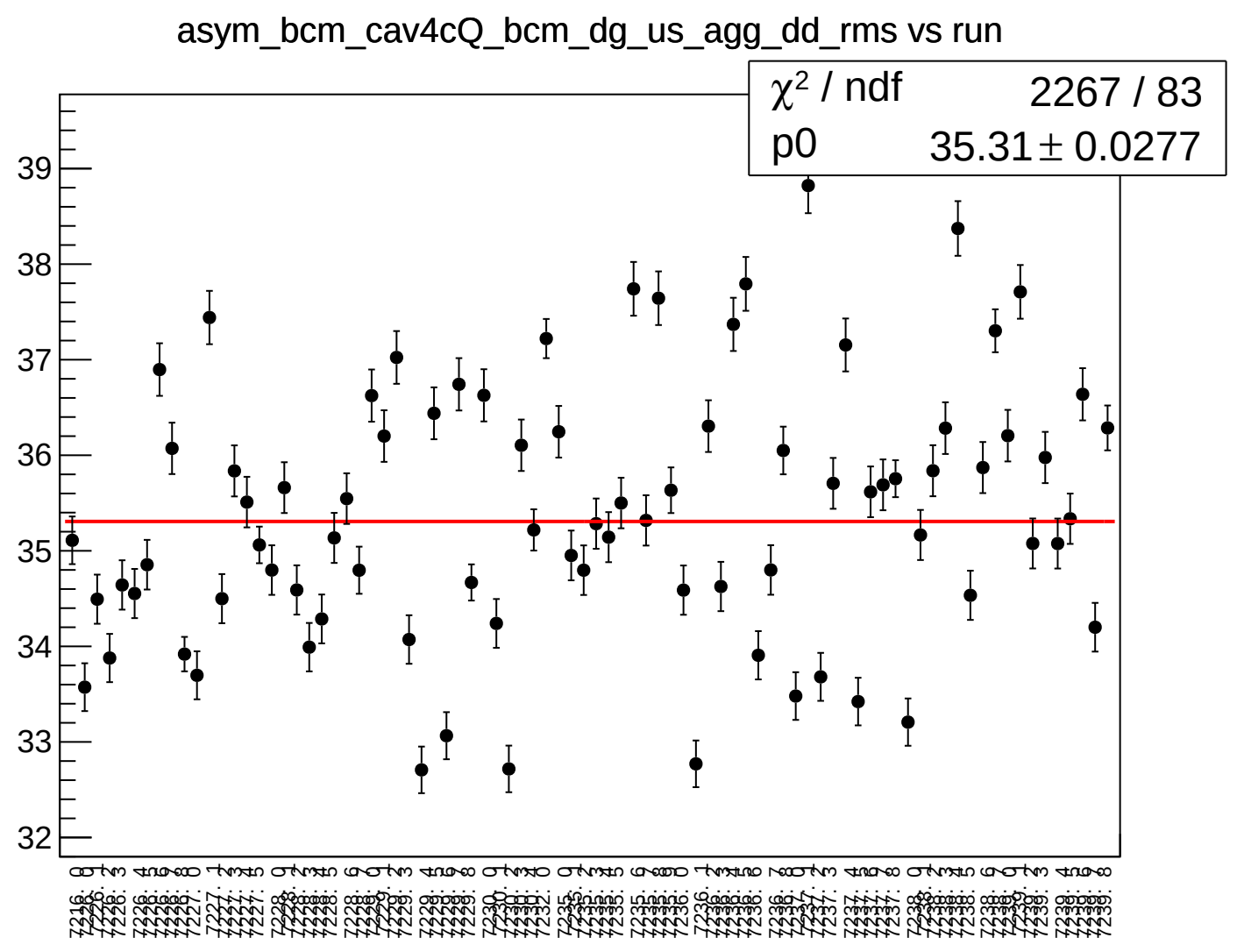

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 19.94 / 83
p0 80.87 ± 221.7
4000
2000
0
−2000
−4000
pull
Entries 84
Mean −162.7
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

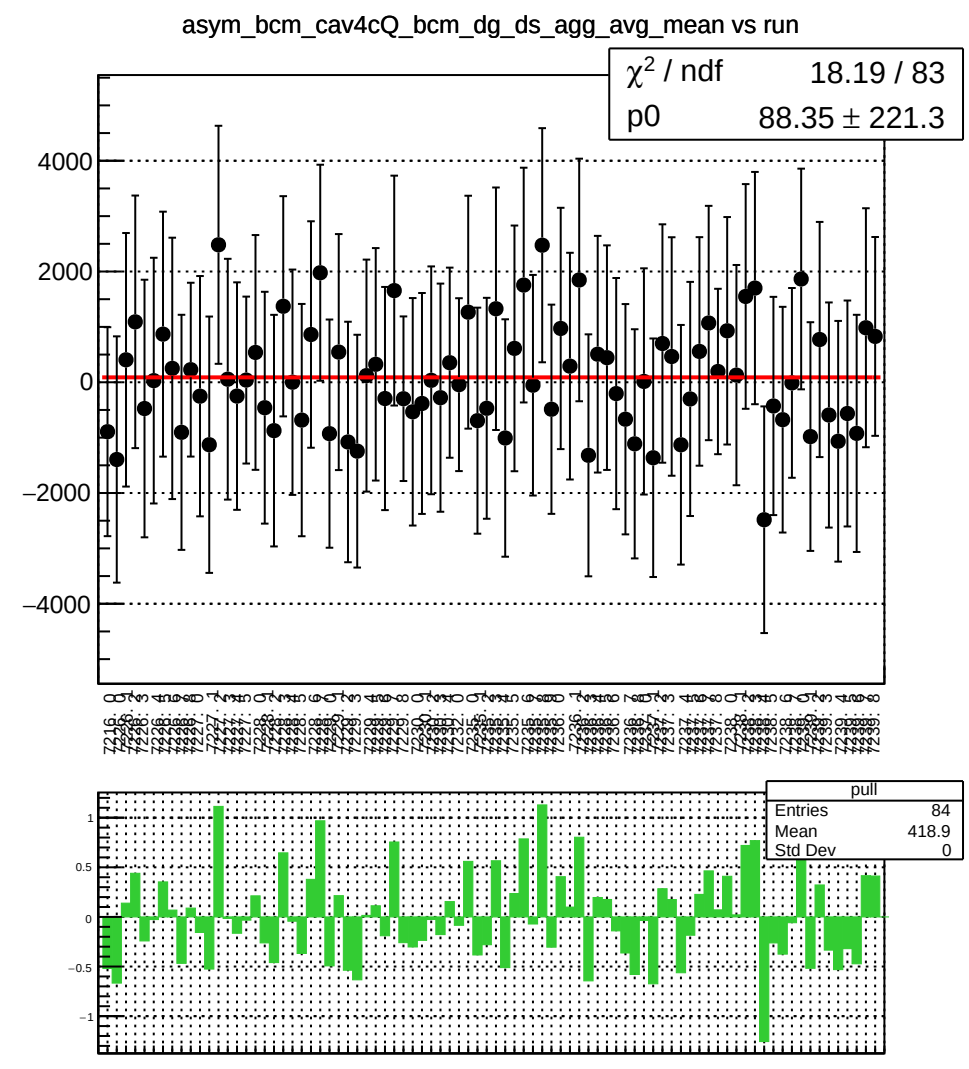

pull1D
Entries 84
Mean 0.001592
Std Dev 0.4872
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

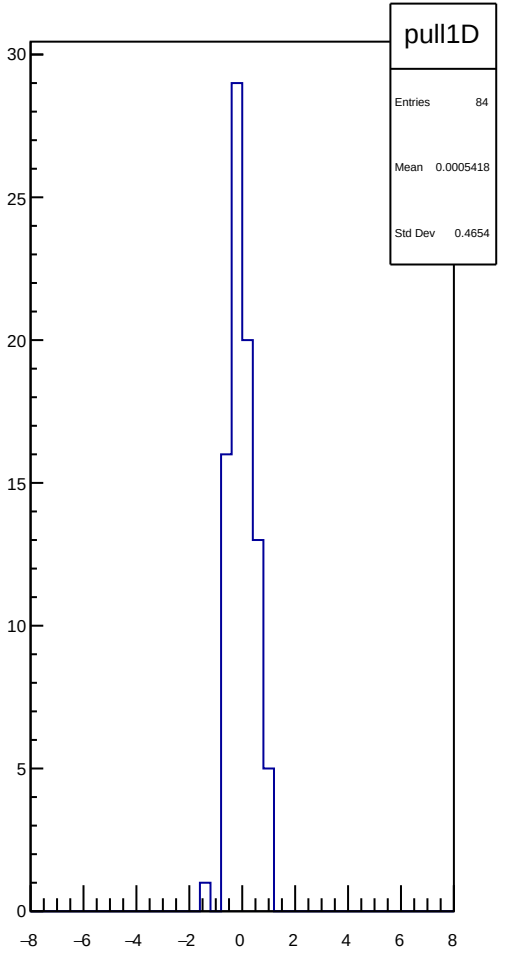

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 2213 / 83
p0 199.8 ± 0.1567
225
220
215
210
205
200
195
190
185

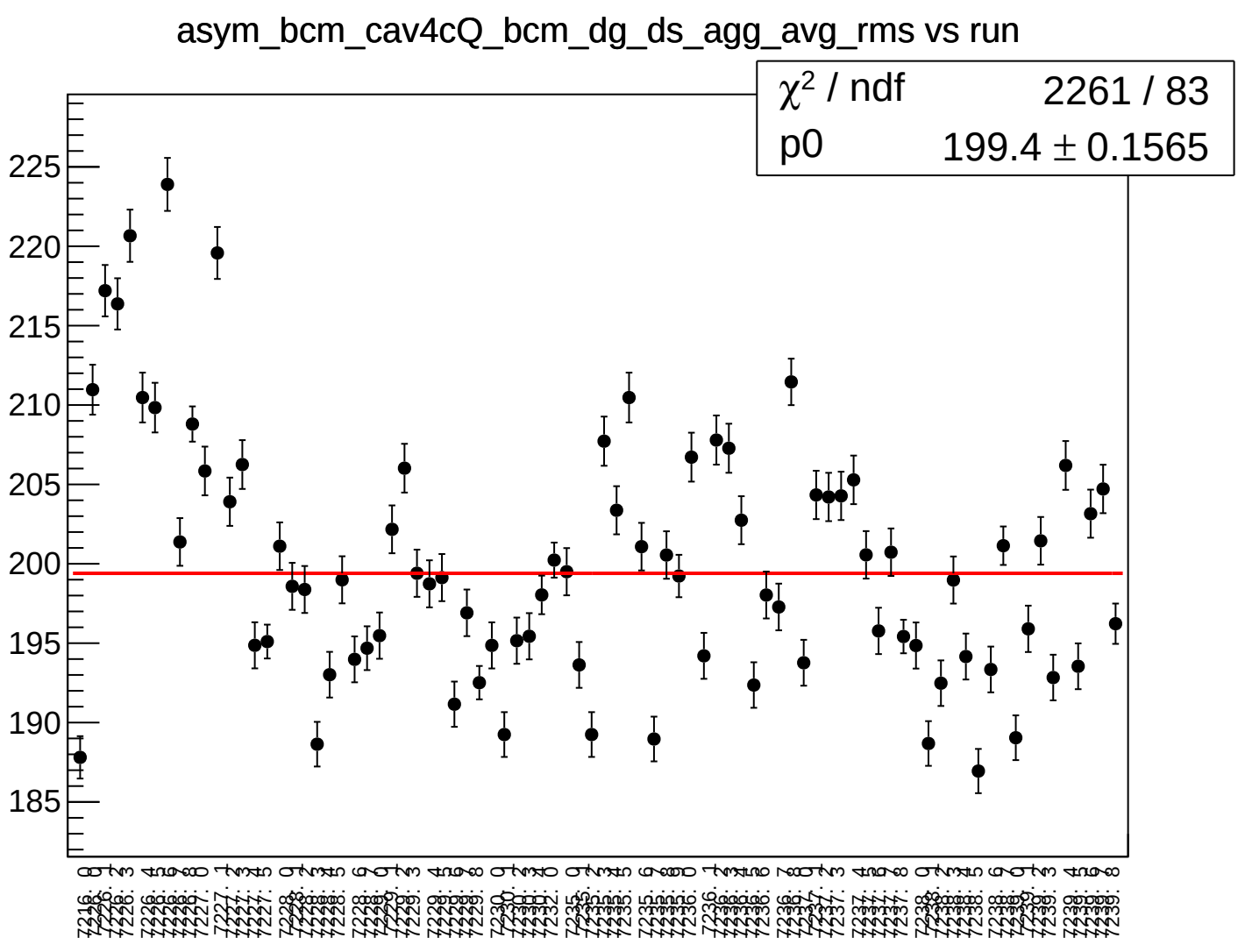

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 77.13 / 83
p0 7.999 ± 39.18
1000
500
0
−500
−1000
−1500
pull
Entries 84
Mean −205.1
Std Dev 0
1
0
−1
−2
−3

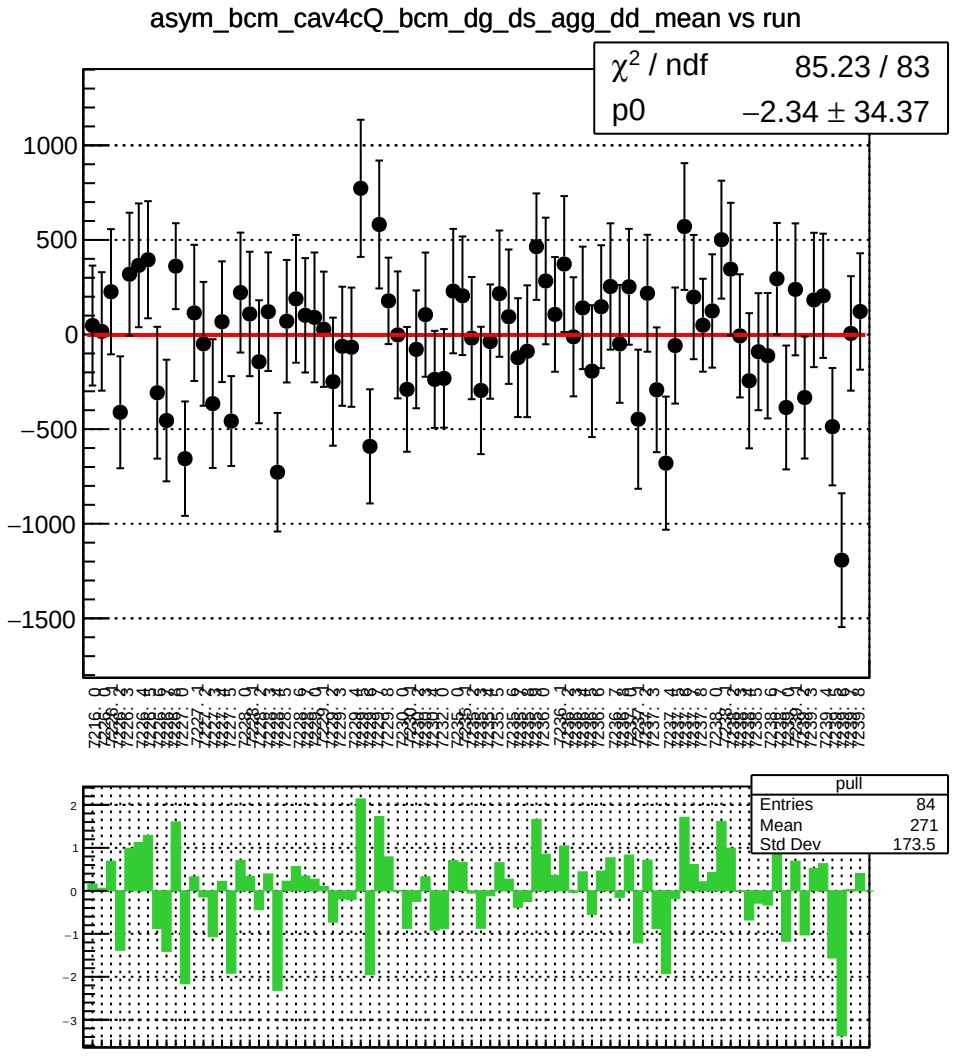

pull1D
Entries 84
Mean −0.01058
Std Dev 0.9582
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

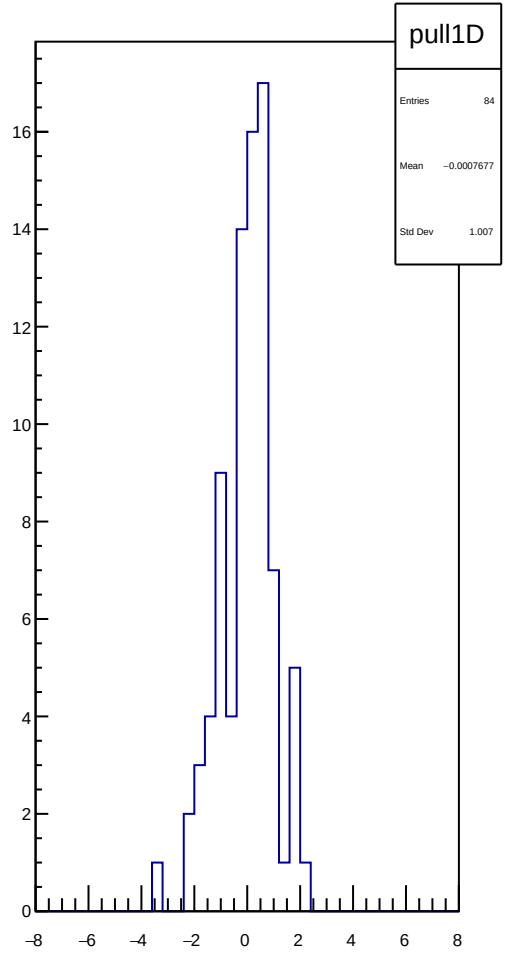

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 2267 / 83
p0 35.31 ± 0.0277
39
38
37
36
35
34
33
32

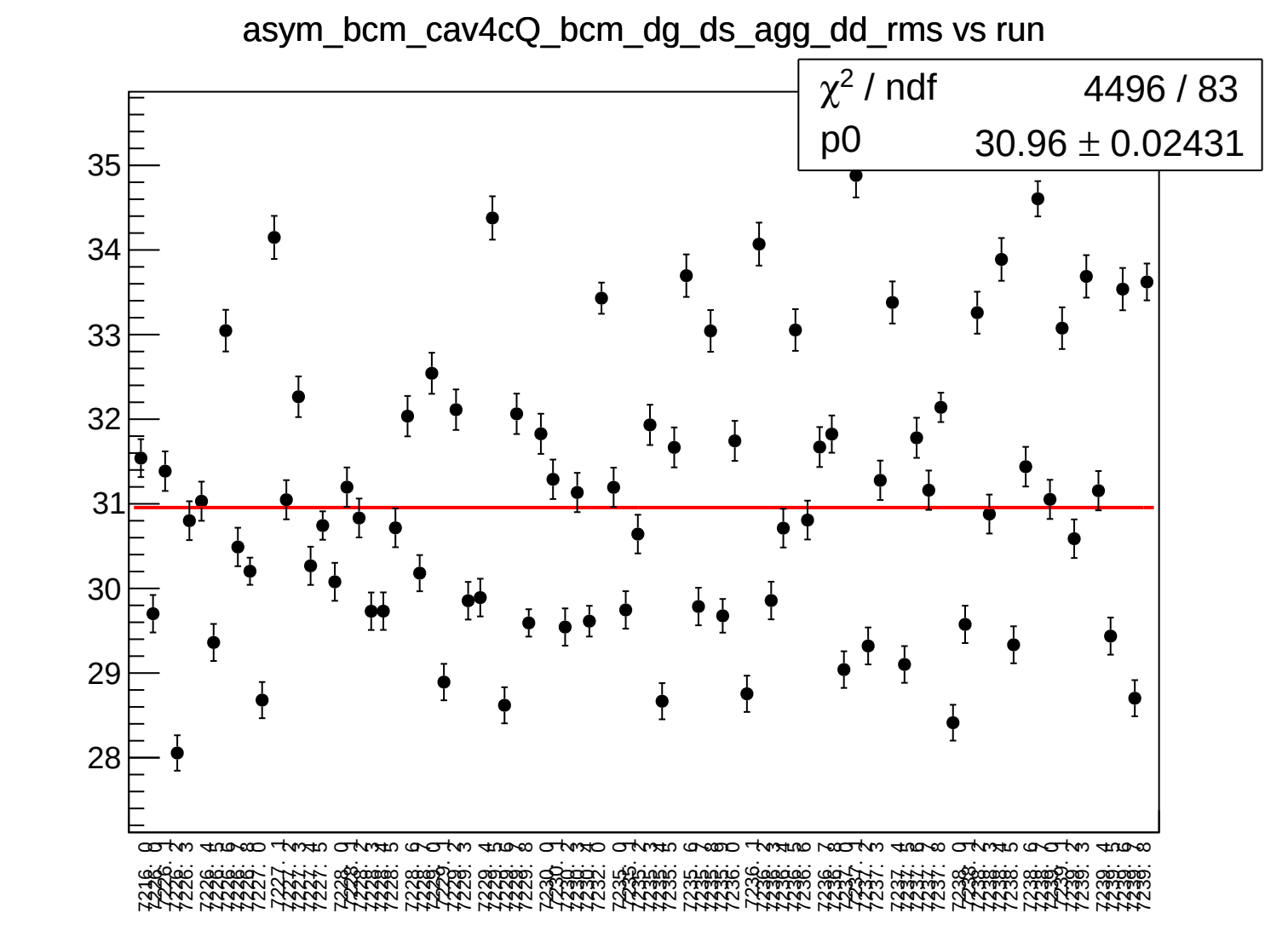

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 18.19 / 83
p0 88.35 ± 221.3
4000
2000
0
−2000
−4000
pull
Entries 84
Mean 418.9
Std Dev 0
1
0.5
0
−0.5
−1

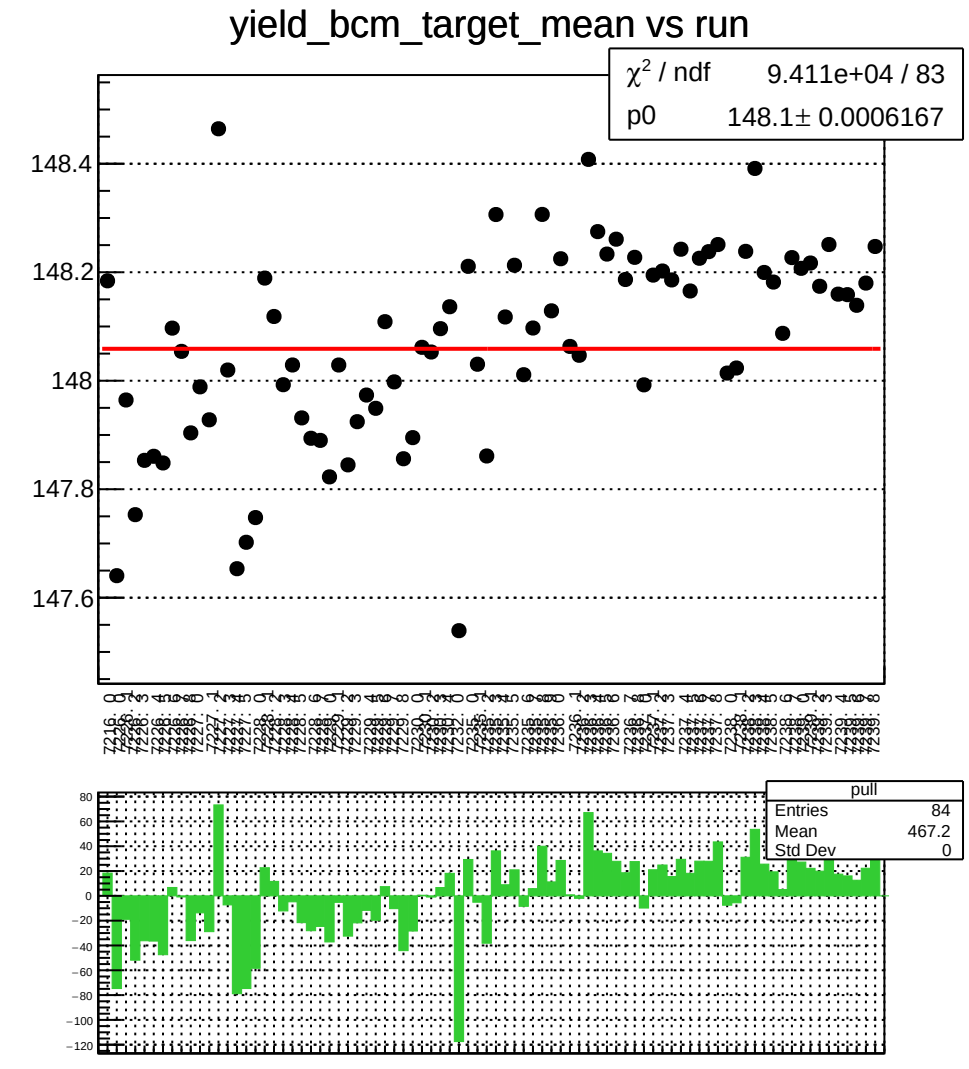

pull1D
Entries 84
Mean 0.0005418
Std Dev 0.4654
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

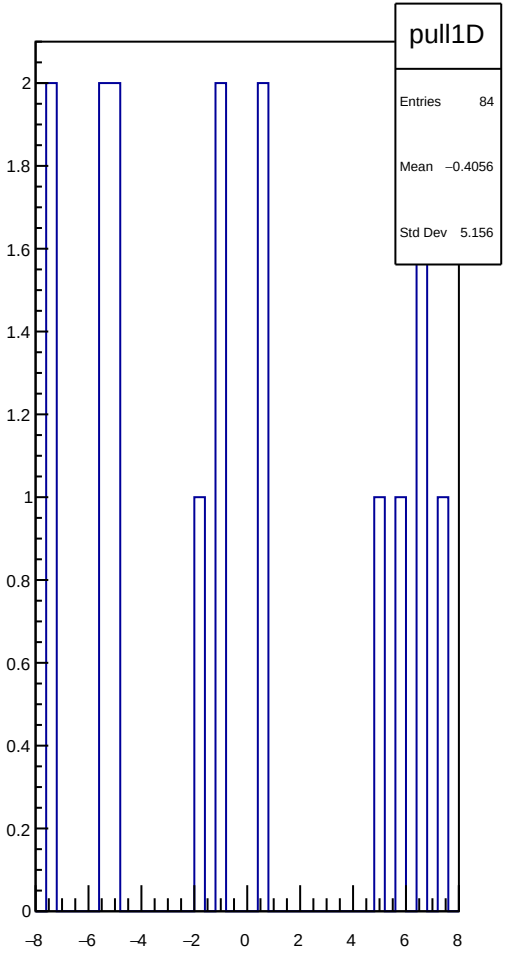

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 2261 / 83
p0 199.4 ± 0.1565
225
220
215
210
205
200
195
190
185

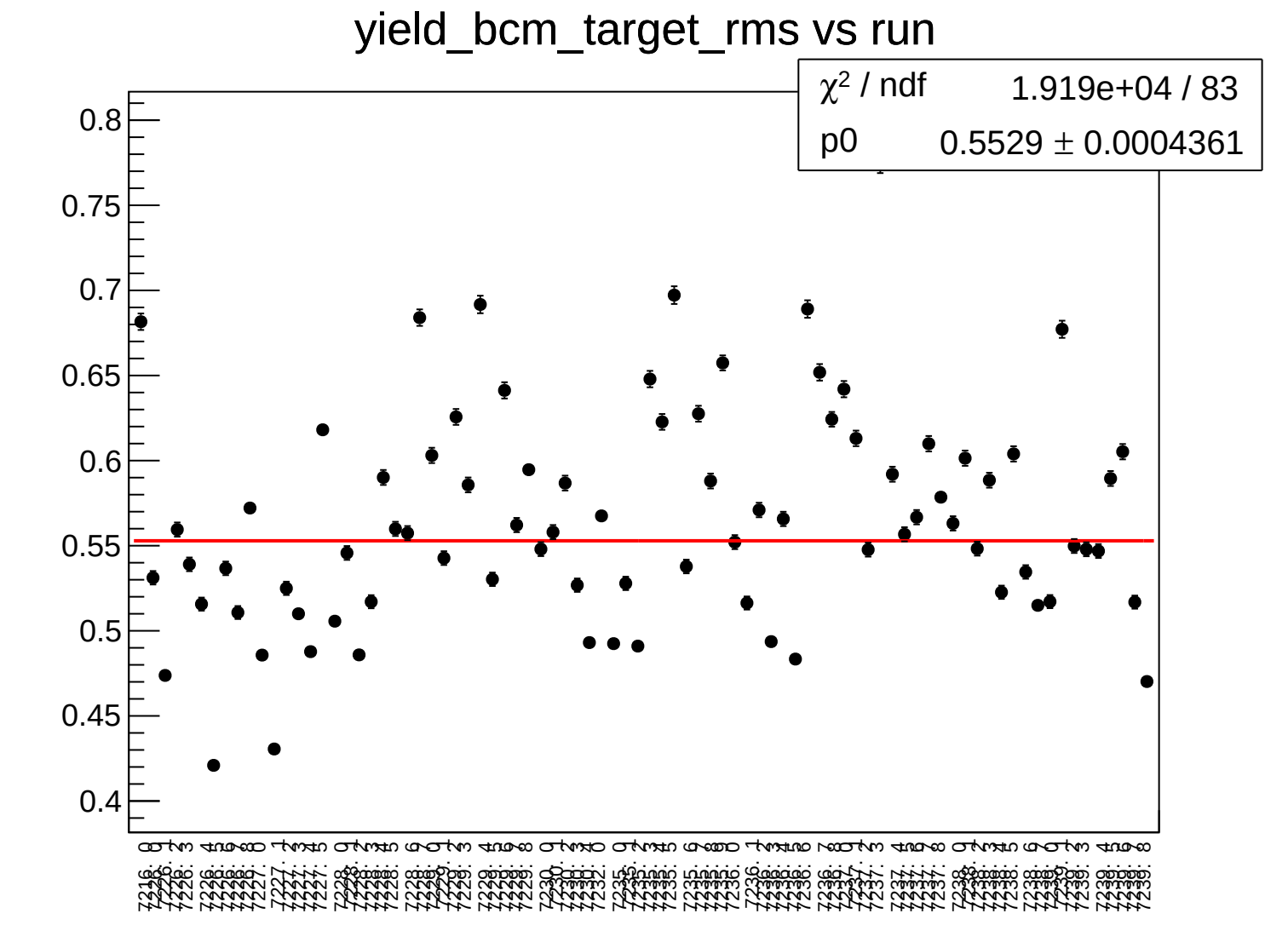

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 85.23 / 83
p0 −2.34 ± 34.37
1000
500
0
−500
−1000
−1500
pull
Entries 84
Mean 271
Std Dev 173.5
2
1
0
−1
−2
−3

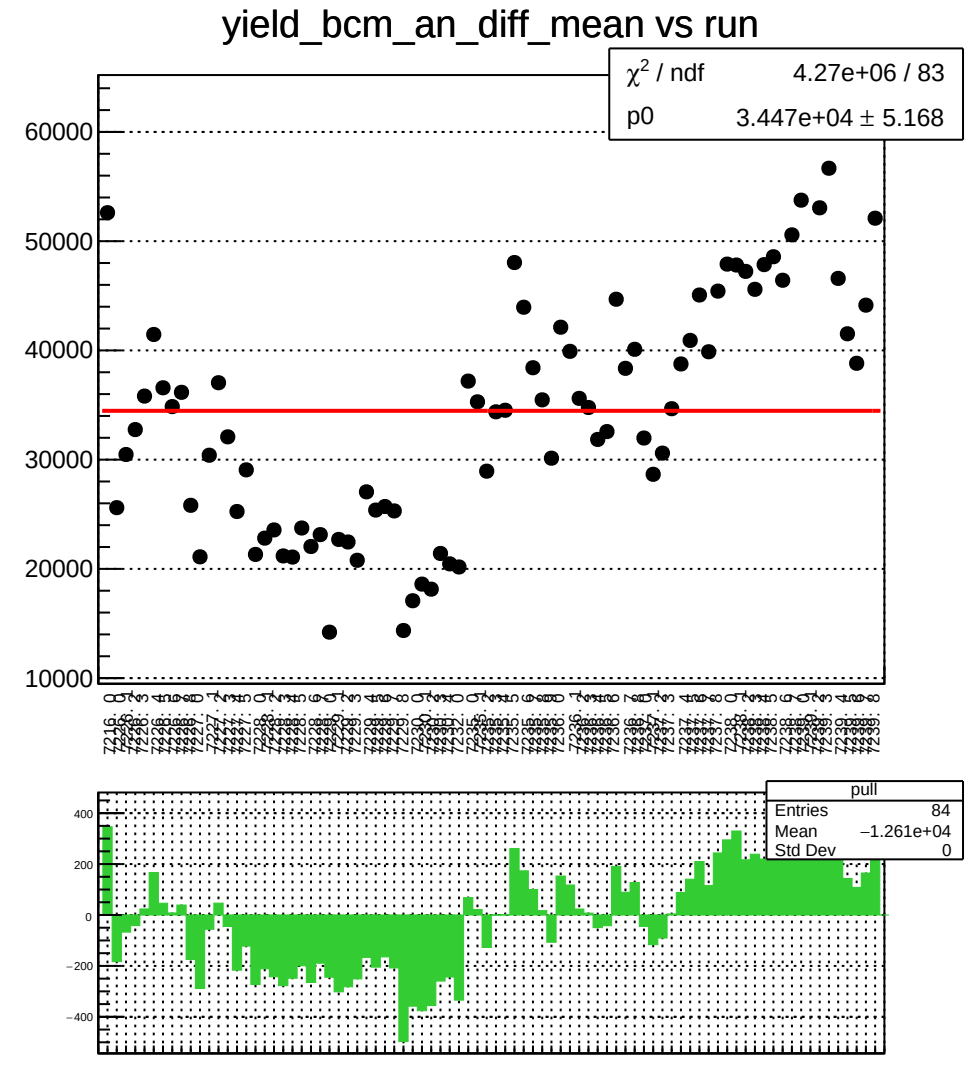

pull1D
Entries 84
Mean −0.0007677
Std Dev 1.007
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

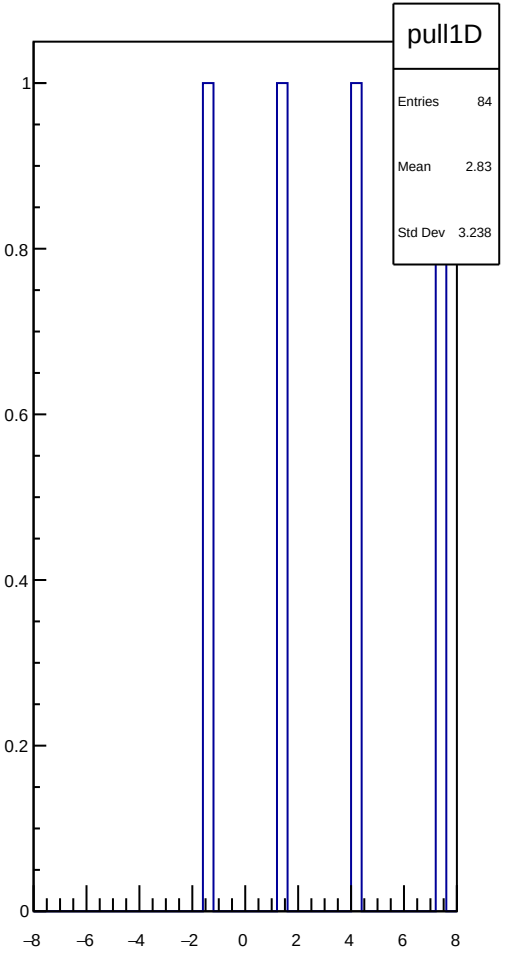

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 4496 / 83
p0 30.96 ± 0.02431
35
34
33
32
31
30
29
28

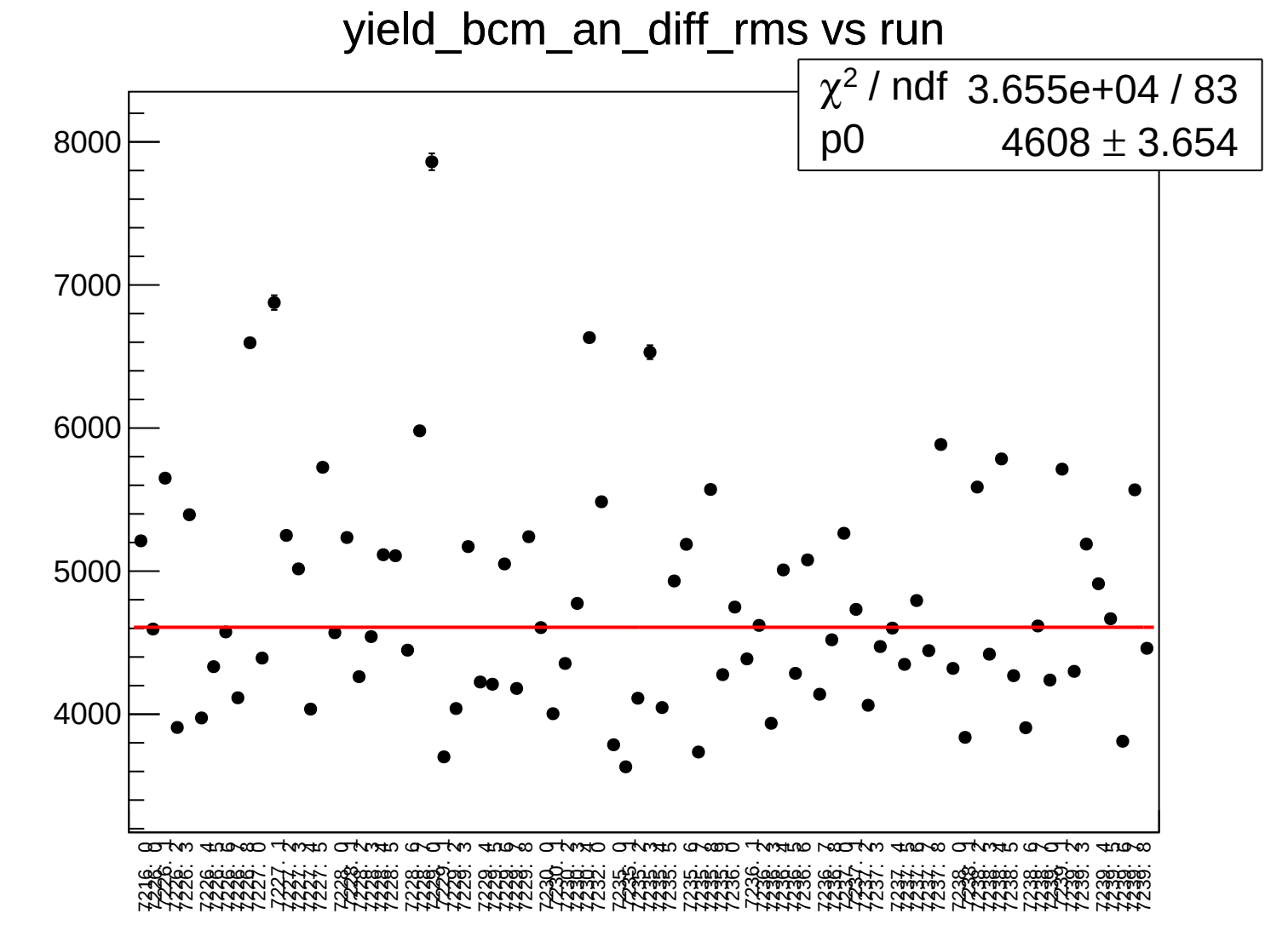

yield_bcm_target_mean vs run
χ² / ndf 9.411e+04 / 83
p0 148.1± 0.0006167
148.4
148.2
148
147.8
147.6
pull
Entries 84
Mean 467.2
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100
−120

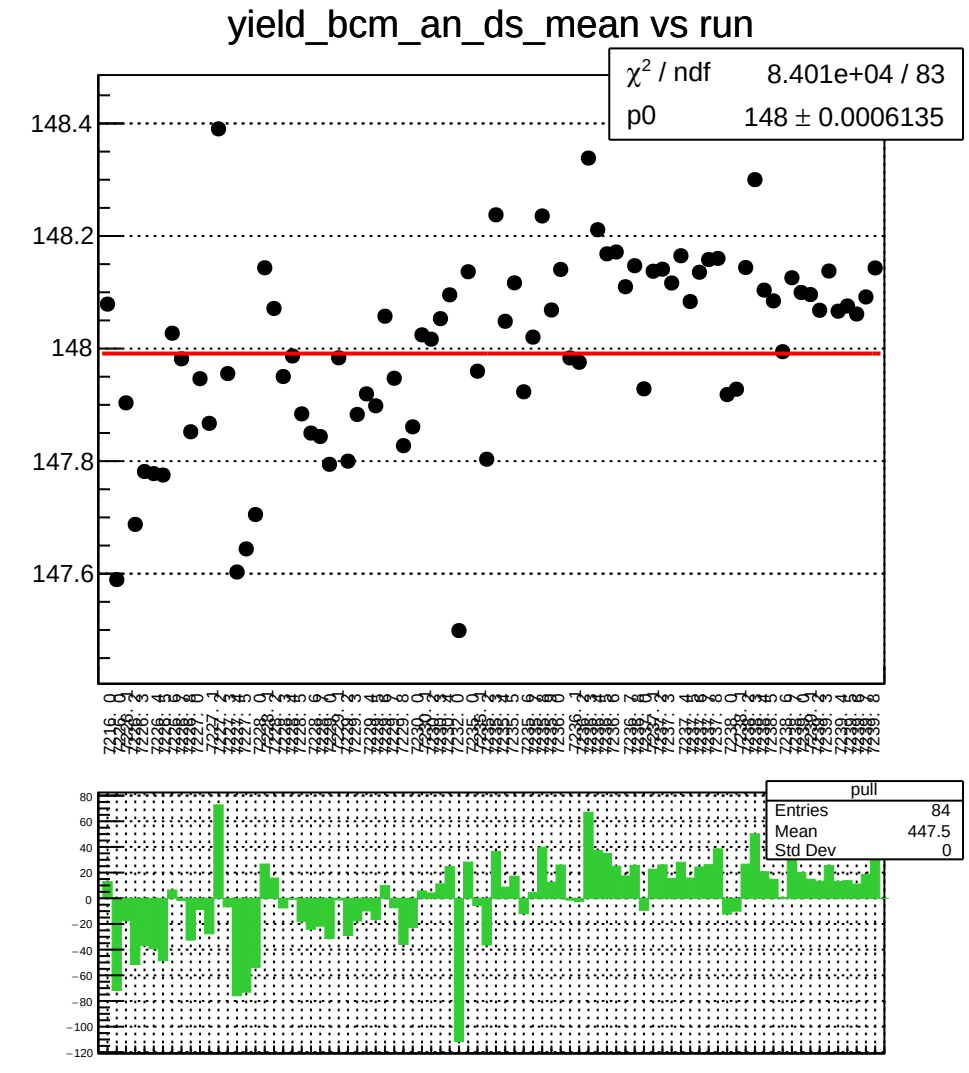

pull1D
Entries 84
Mean −0.4056
Std Dev 5.156
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

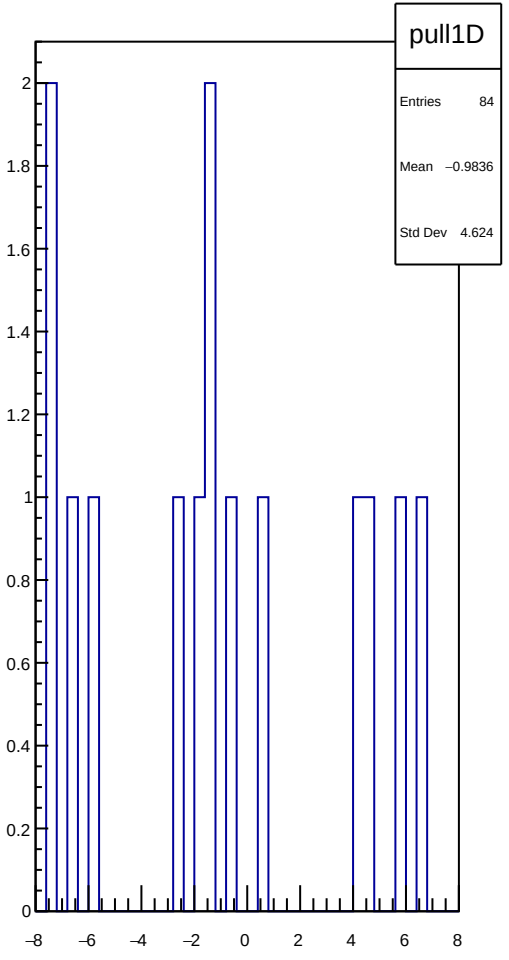

yield_bcm_target_rms vs run
χ² / ndf 1.919e+04 / 83
p0 0.5529 ± 0.0004361
0.8
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4

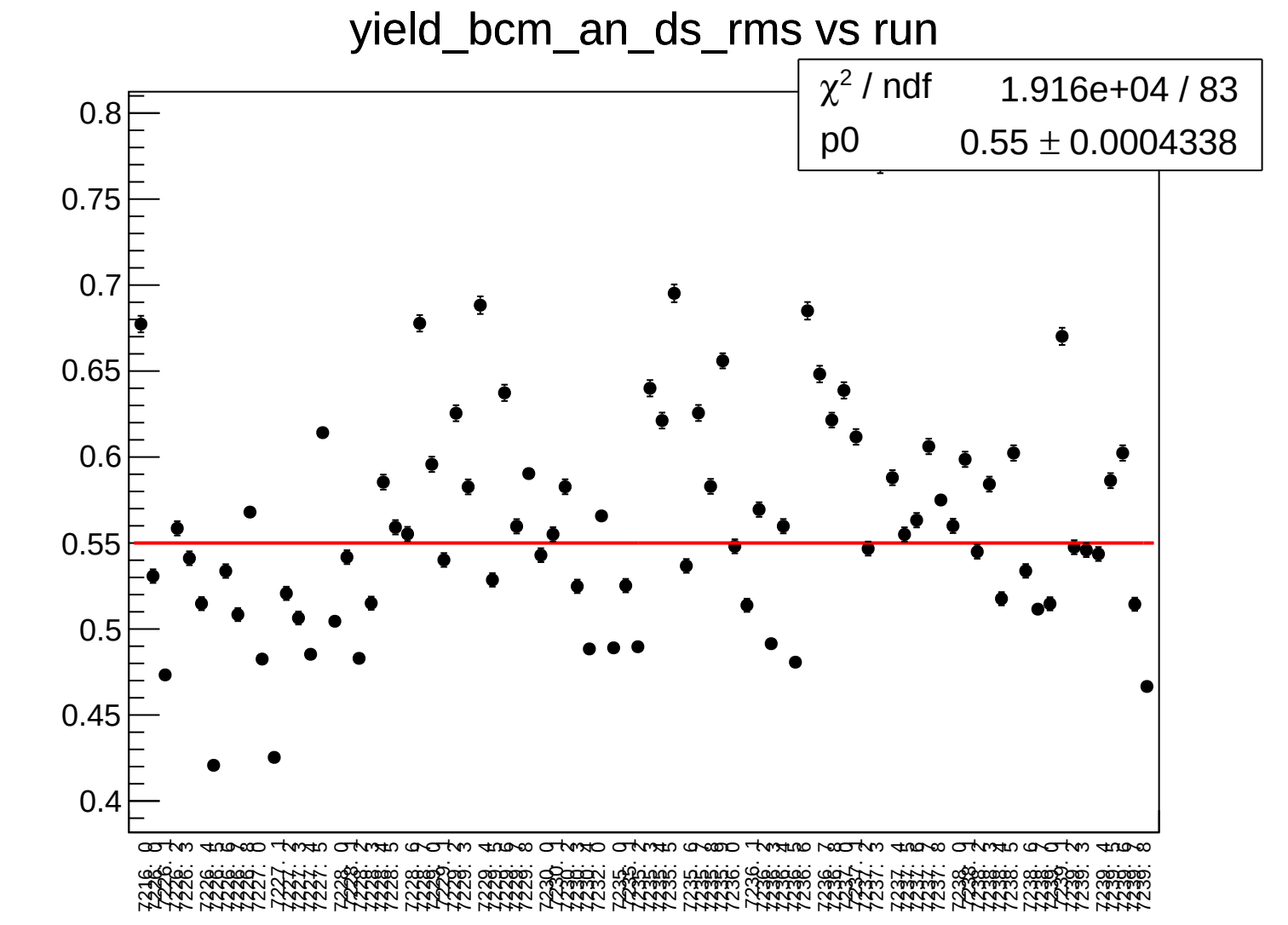

yield_bcm_an_diff_mean vs run
χ² / ndf 4.27e+06 / 83
p0 3.447e+04 ± 5.168
60000
50000
40000
30000
20000
10000
pull
Entries 84
Mean −1.261e+04
Std Dev 0
400
200
0
−200
−400

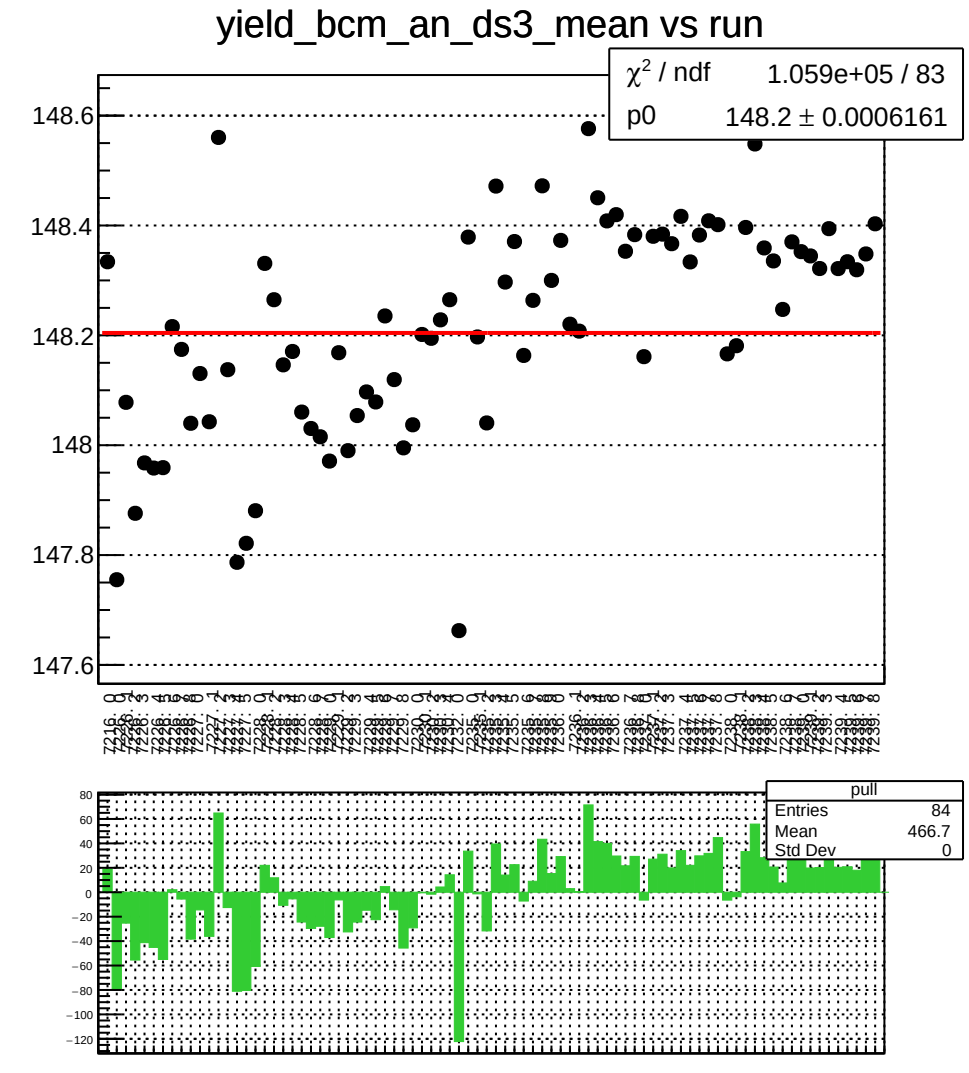

pull1D
Entries 84
Mean 2.83
Std Dev 3.238
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

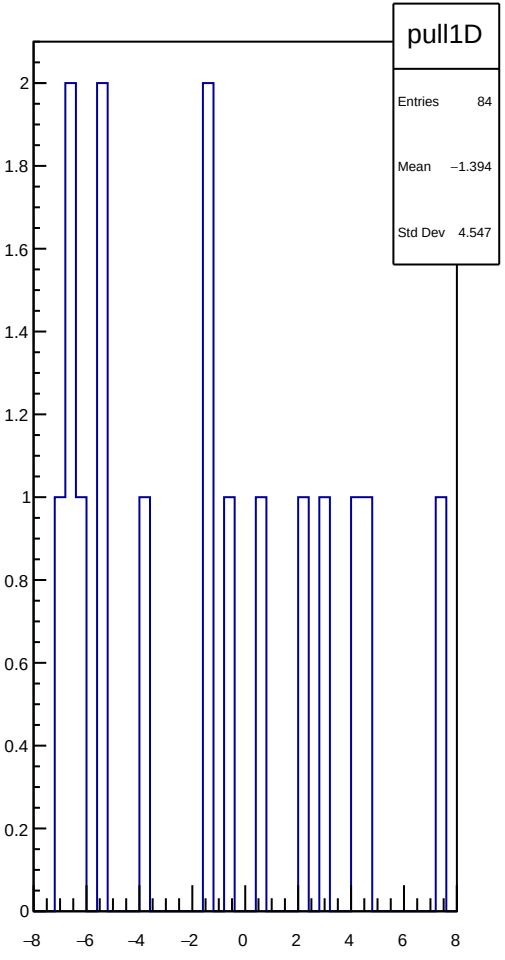

yield_bcm_an_diff_rms vs run
χ² / ndf 3.655e+04 / 83
p0 4608 ± 3.654
8000
7000
6000
5000
4000

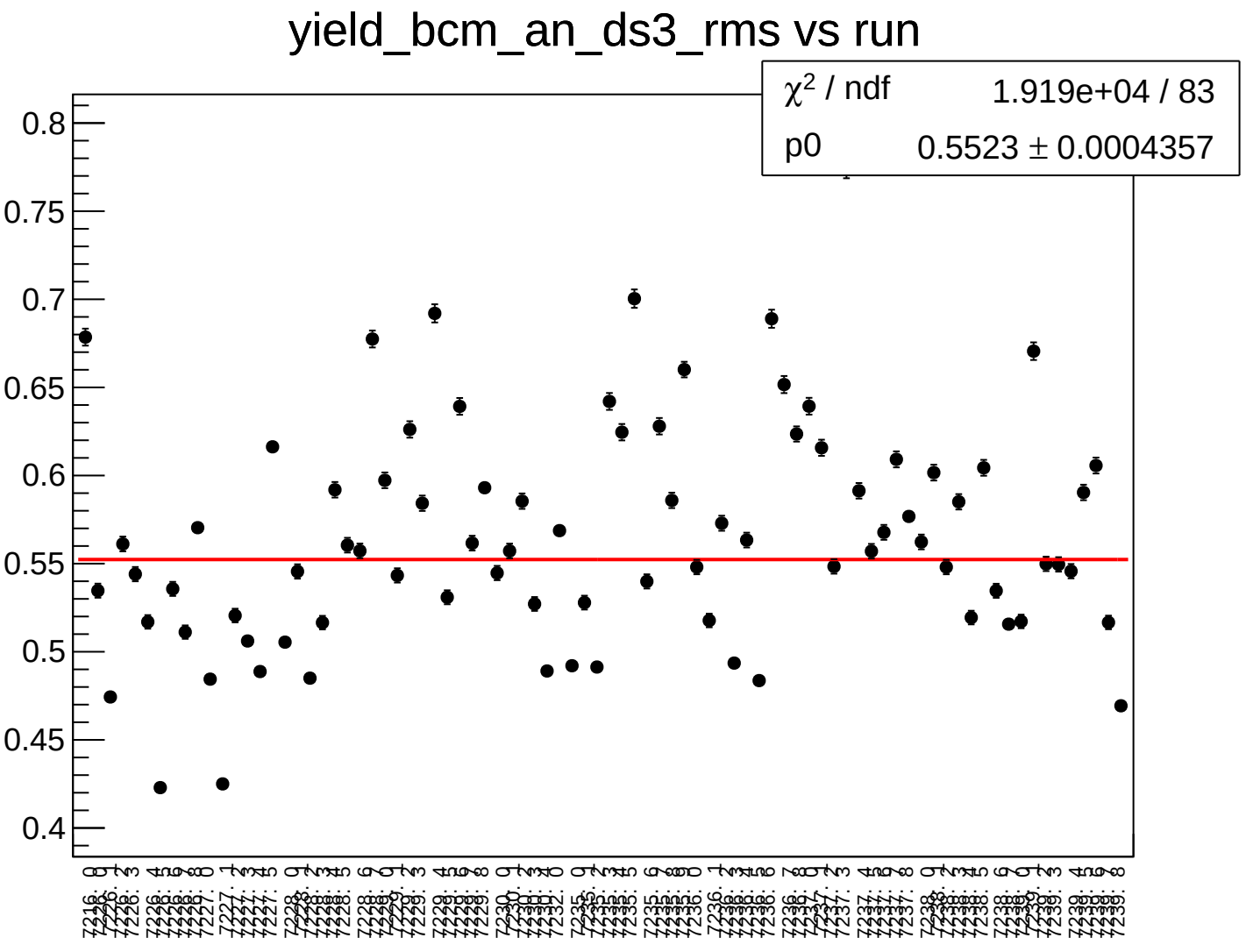

yield_bcm_an_ds_mean vs run
χ² / ndf 8.401e+04 / 83
p0 148 ± 0.0006135
148.4
148.2
148
147.8
147.6
pull
Entries 84
Mean 447.5
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100
−120

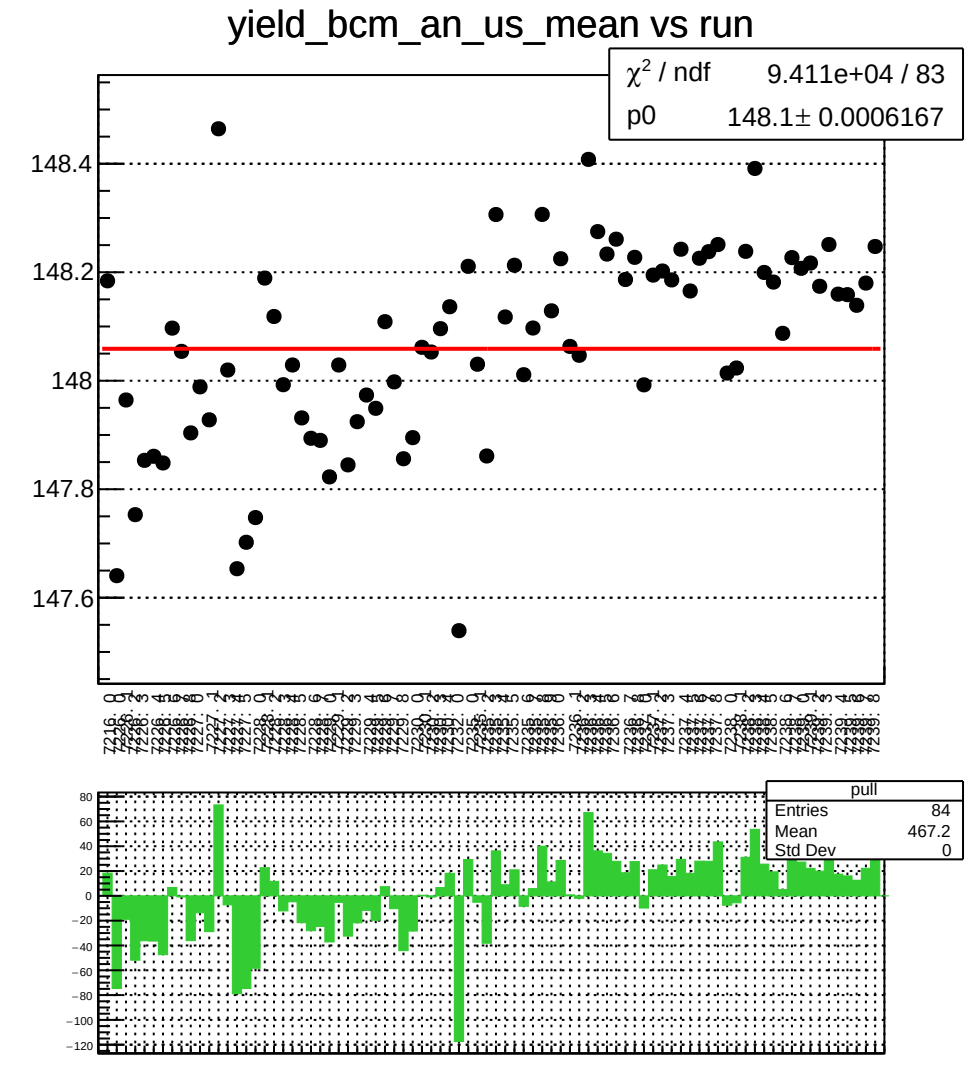

pull1D
Entries 84
Mean −0.9836
Std Dev 4.624
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

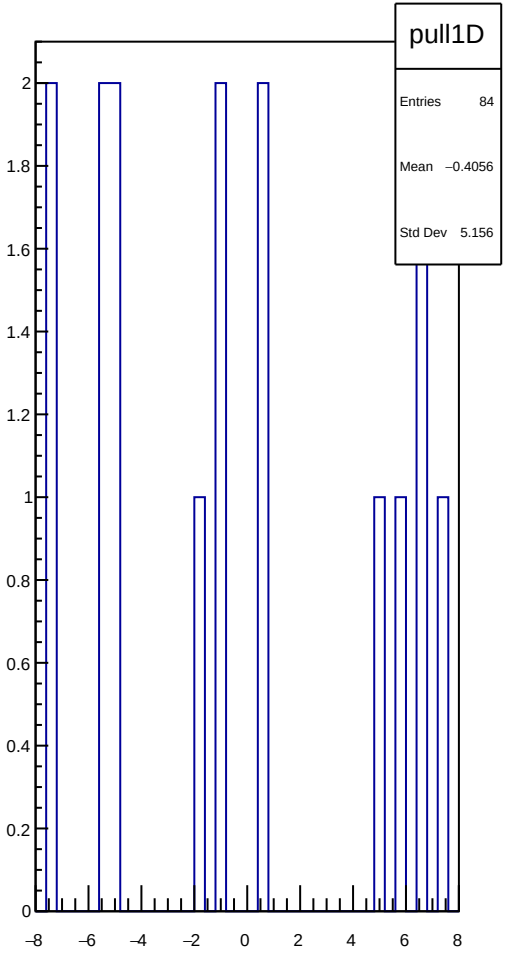

yield_bcm_an_ds_rms vs run
χ^2 / ndf 1.916e+04 / 83
p0 0.55 ± 0.0004338
0.8
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4

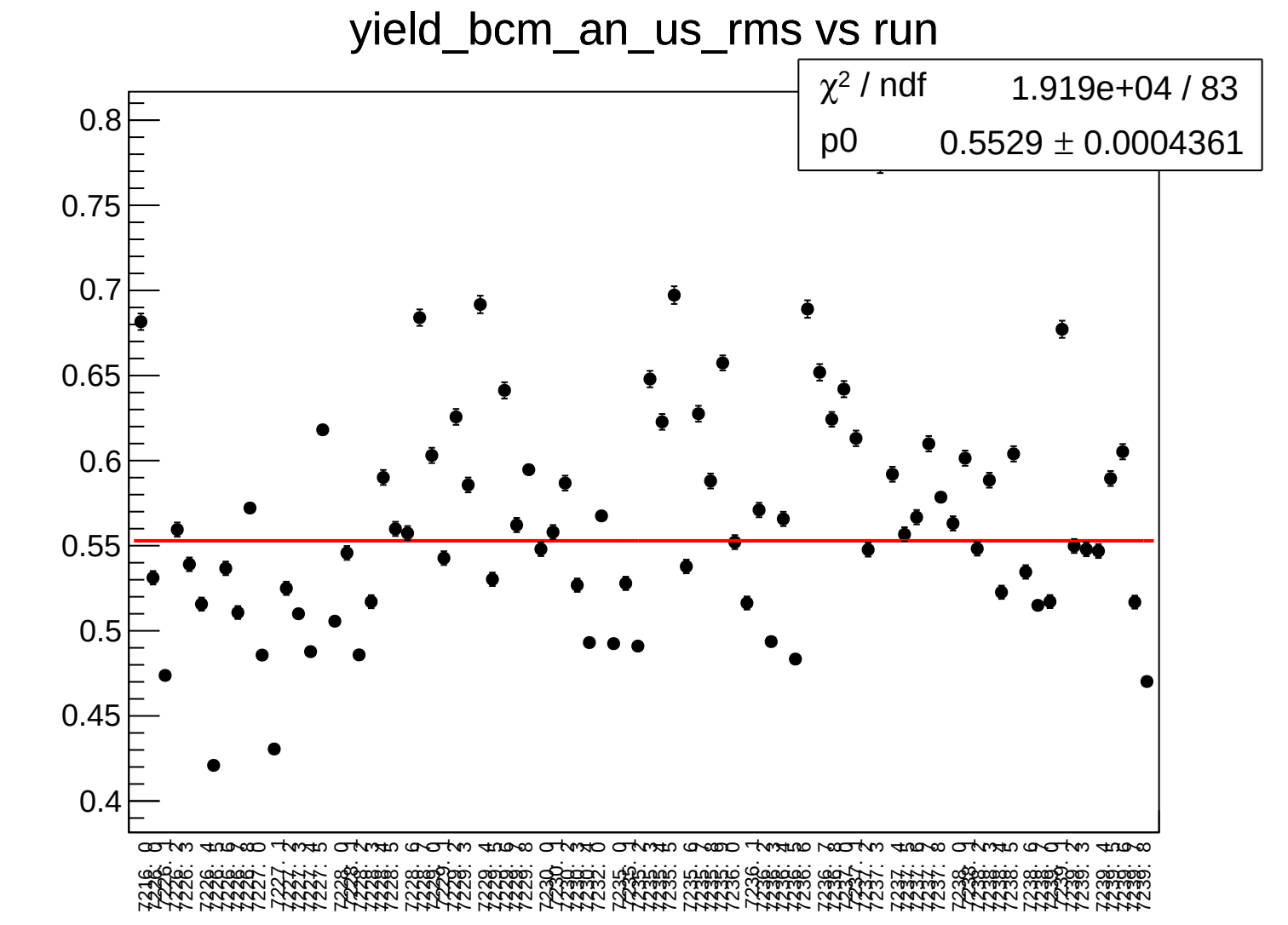

yield_bcm_an_ds3_mean vs run
χ² / ndf 1.059e+05 / 83
p0 148.2 ± 0.0006161
148.6
148.4
148.2
148
147.8
147.6
pull
Entries 84
Mean 466.7
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100
−120

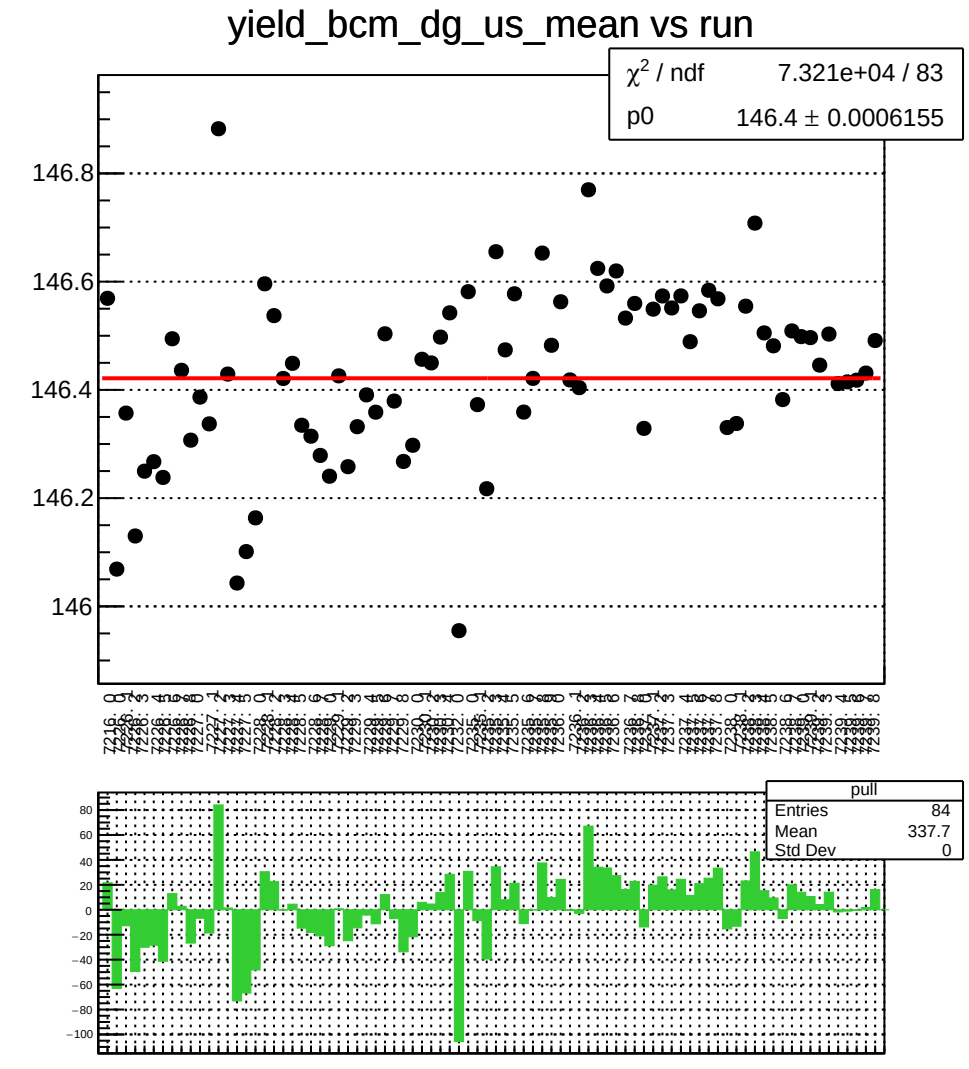

pull1D
Entries 84
Mean −1.394
Std Dev 4.547
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

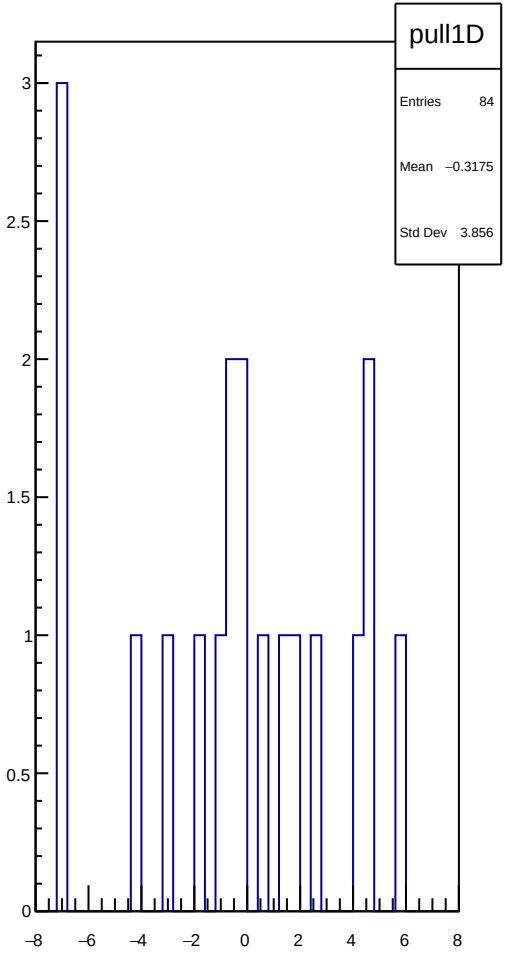

yield_bcm_an_ds3_rms vs run
χ² / ndf 1.919e+04 / 83
p0 0.5523 ± 0.0004357
0.8
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4

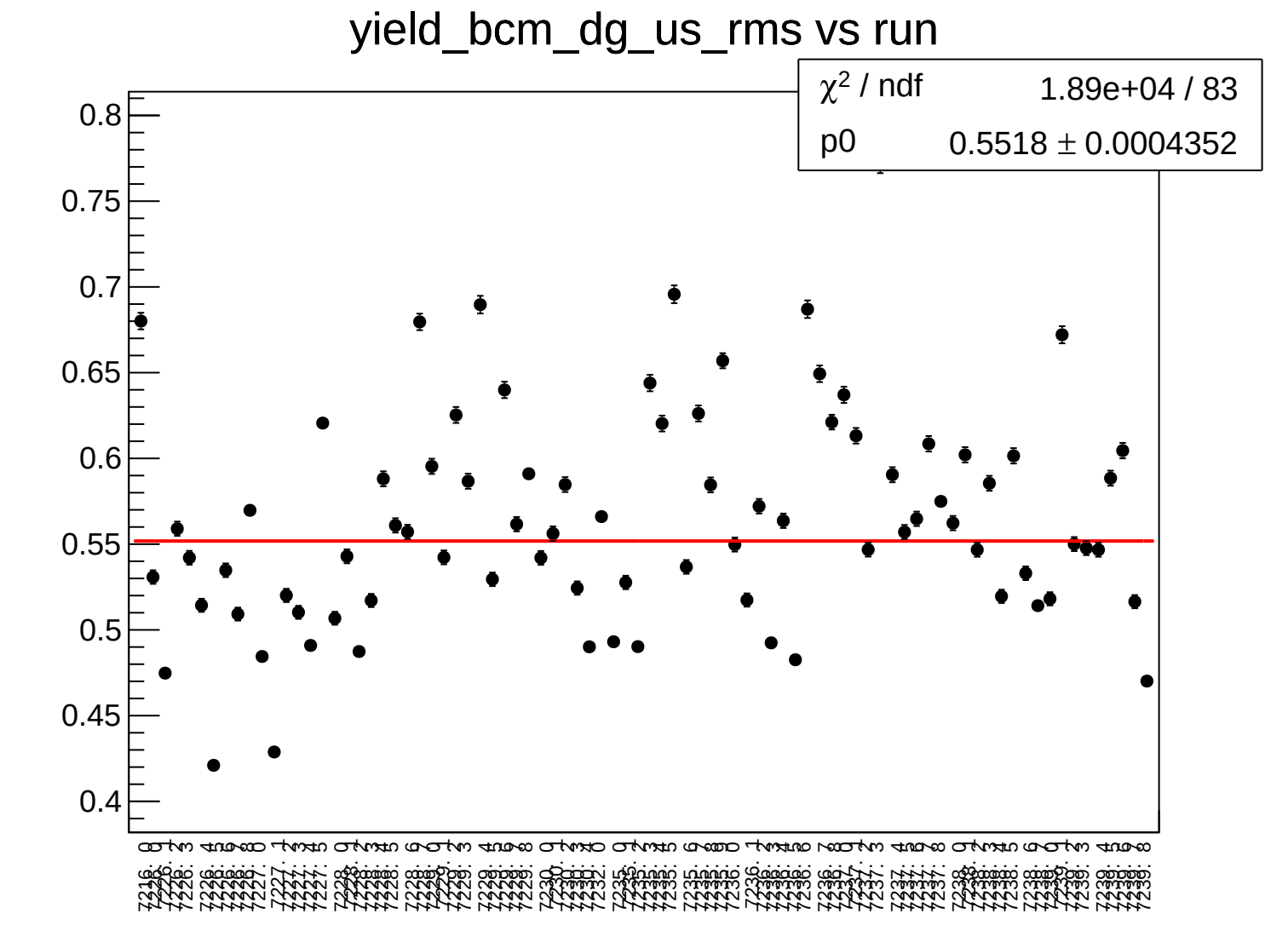

yield_bcm_an_us_mean vs run
χ² / ndf 9.411e+04 / 83
p0 148.1± 0.0006167
148.4
148.2
148
147.8
147.6
pull
Entries 84
Mean 467.2
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100
−120

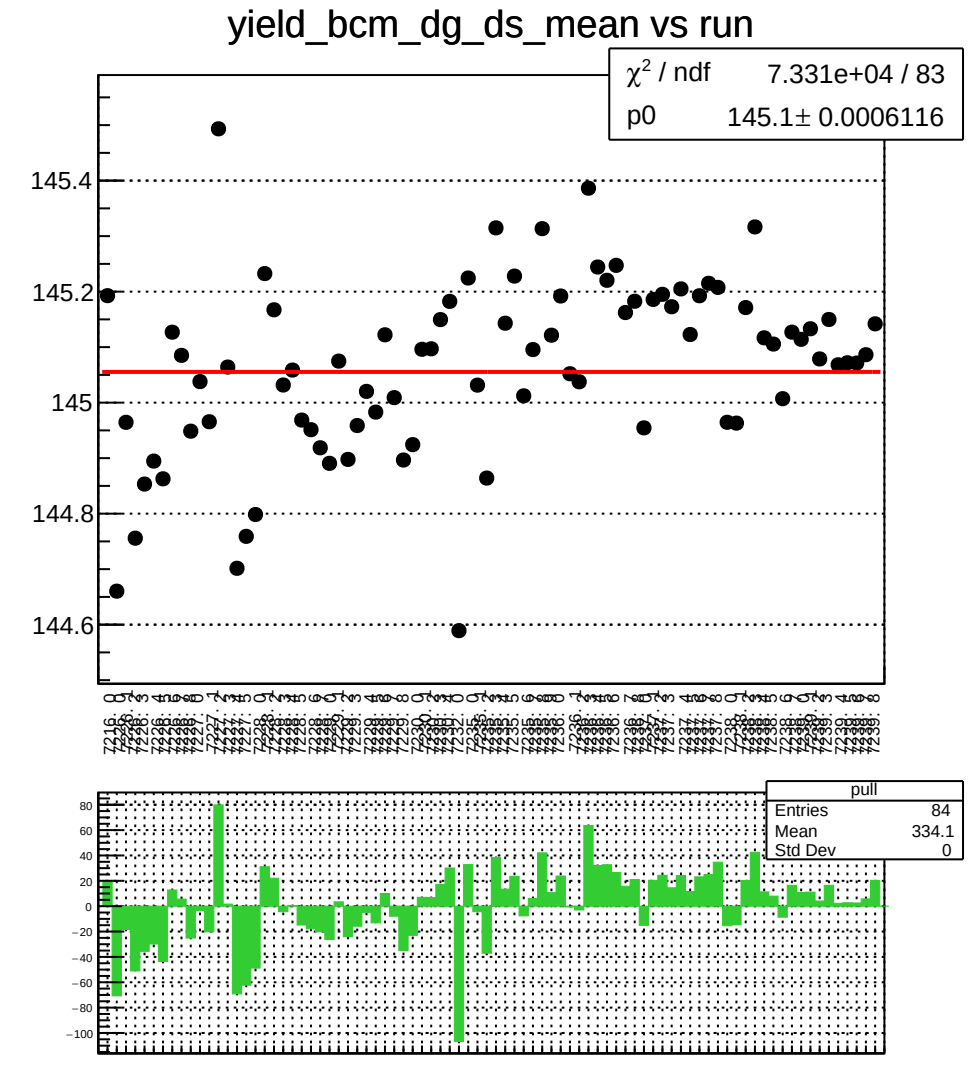

pull1D
Entries 84
Mean −0.4056
Std Dev 5.156
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

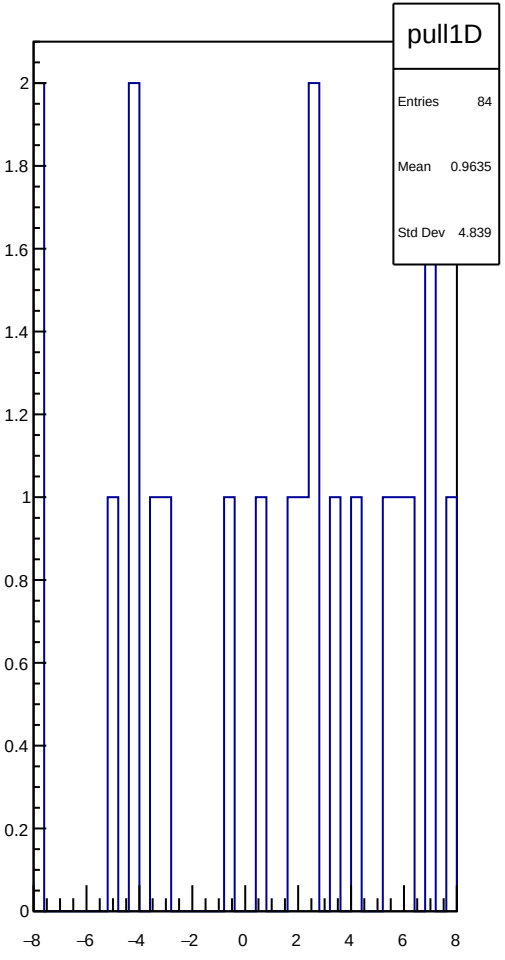

yield_bcm_an_us_rms vs run
χ² / ndf 1.919e+04 / 83
p0 0.5529 ± 0.0004361
0.8
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4

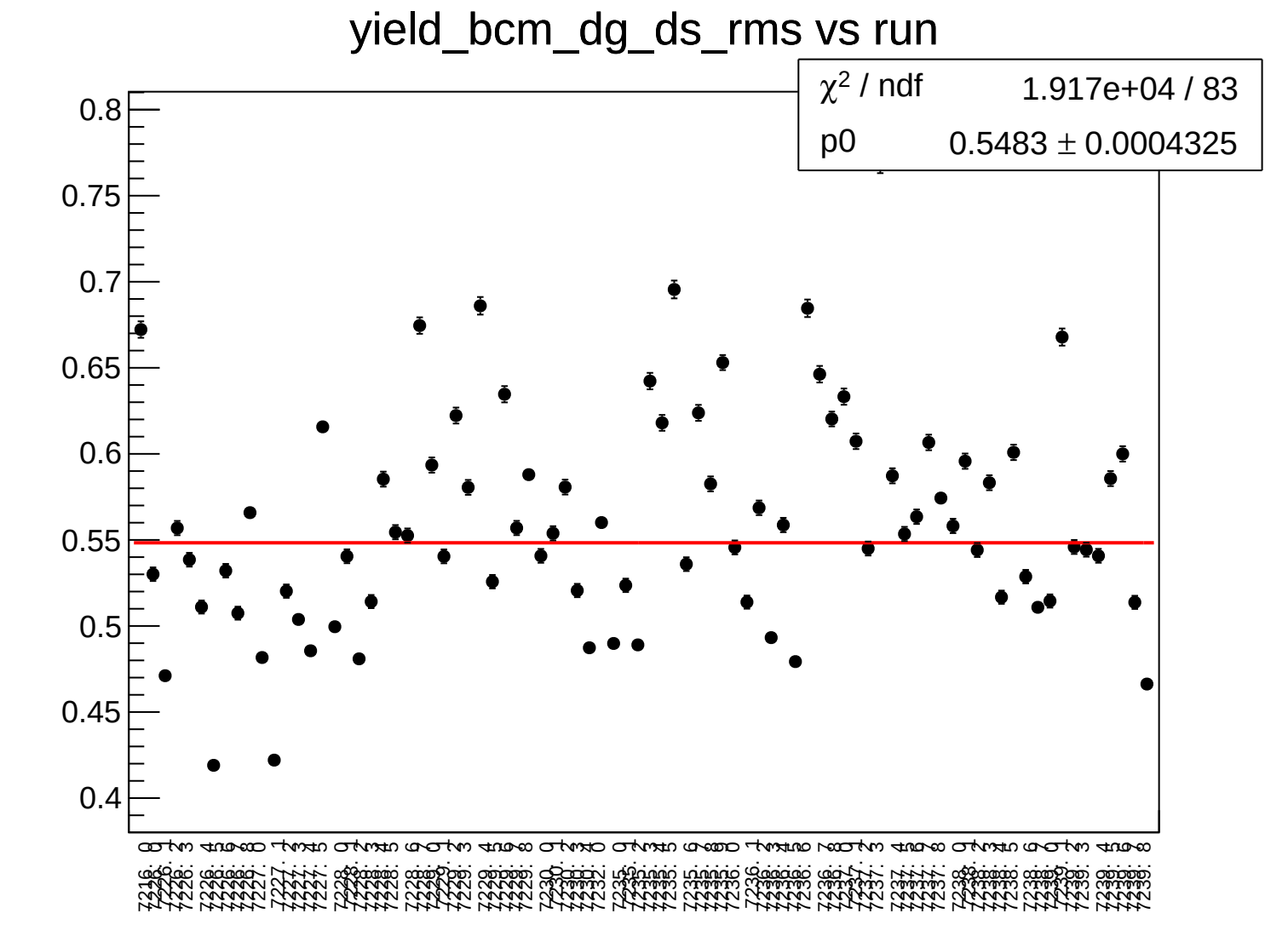

yield_bcm_dg_us_mean vs run
χ² / ndf 7.321e+04 / 83
p0 146.4 ± 0.0006155
146.8
146.6
146.4
146.2
146
pull
Entries 84
Mean 337.7
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100

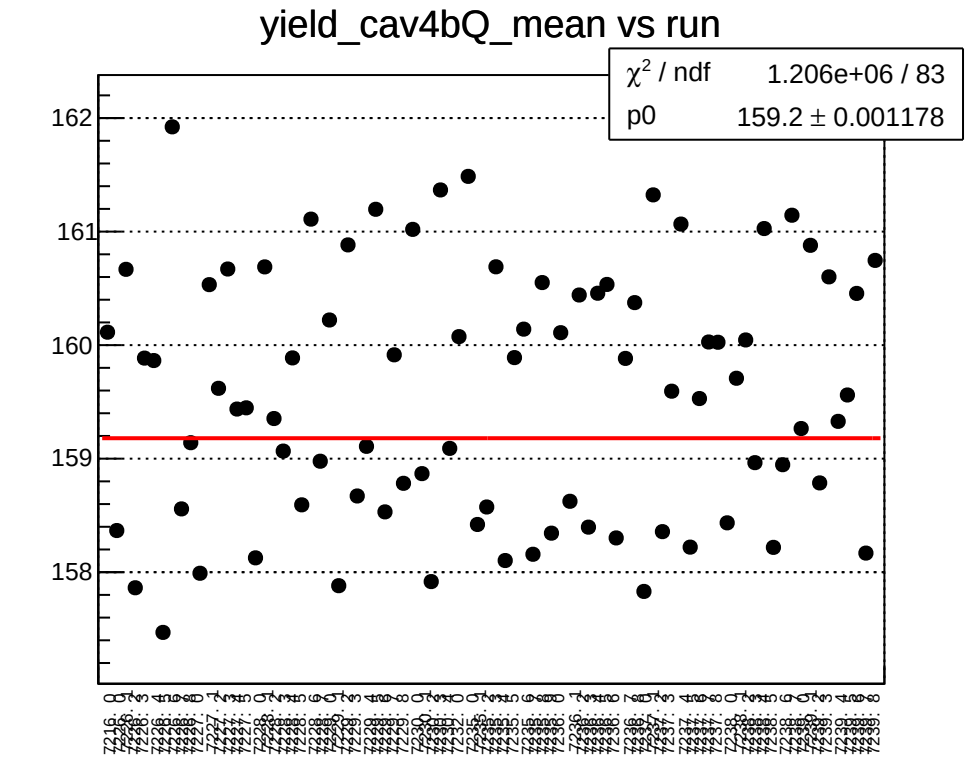

pull1D
Entries 84
Mean −0.3175
Std Dev 3.856
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

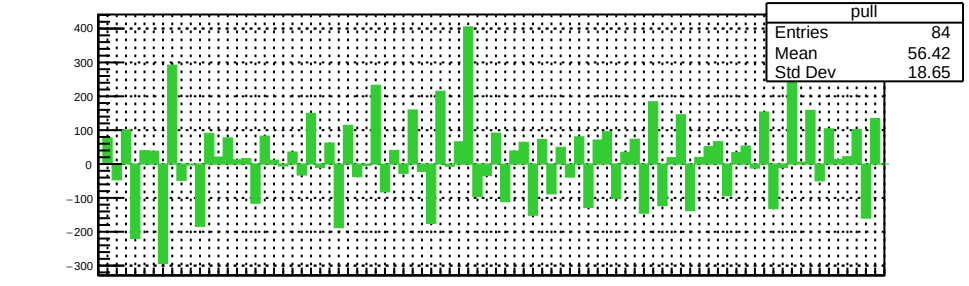

yield_bcm_dg_us_rms vs run
χ² / ndf 1.89e+04 / 83
p0 0.5518 ± 0.0004352
0.8
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4

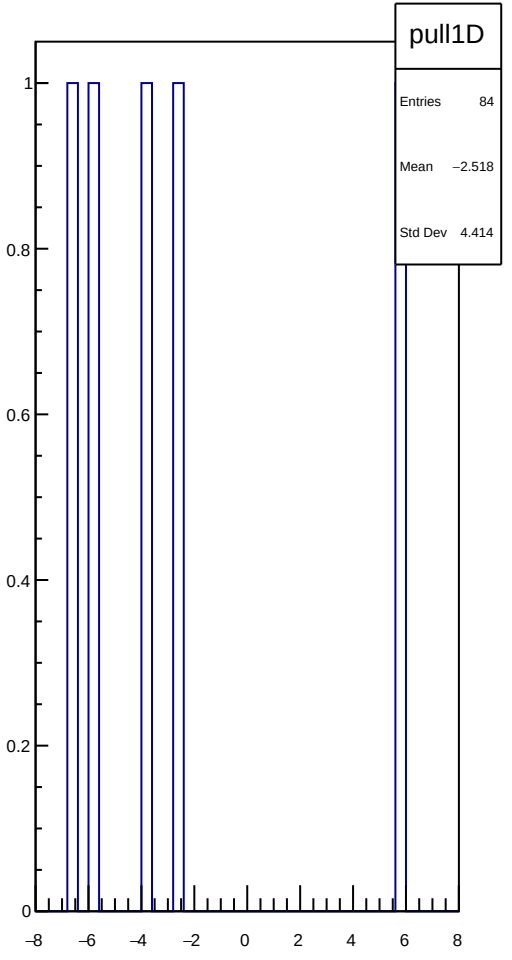

yield_bcm_dg_ds_mean vs run
χ² / ndf 7.331e+04 / 83
p0 145.1± 0.0006116
145.4
145.2
145
144.8
144.6
pull
Entries 84
Mean 334.1
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100

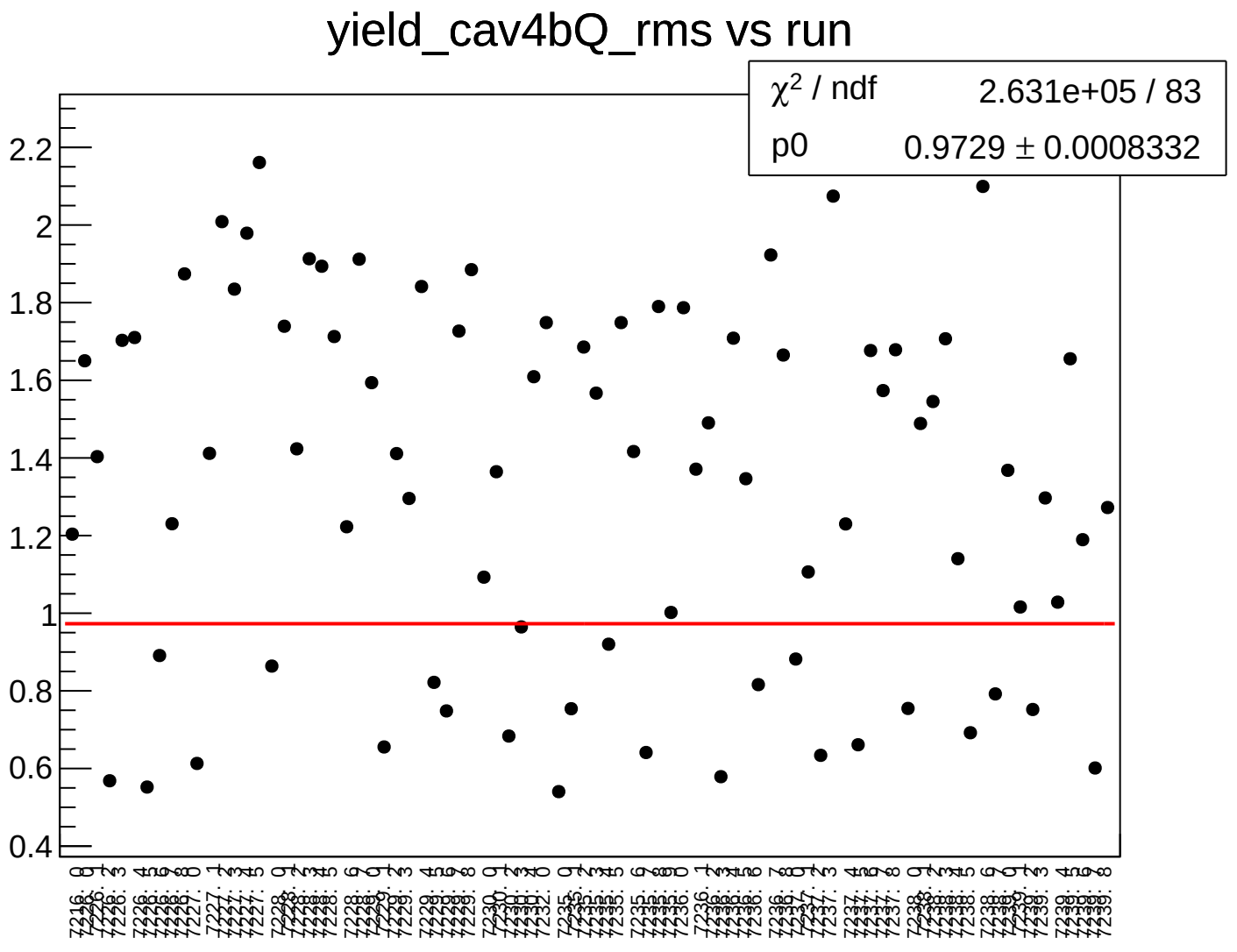

pull1D
Entries 84
Mean 0.9635
Std Dev 4.839
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

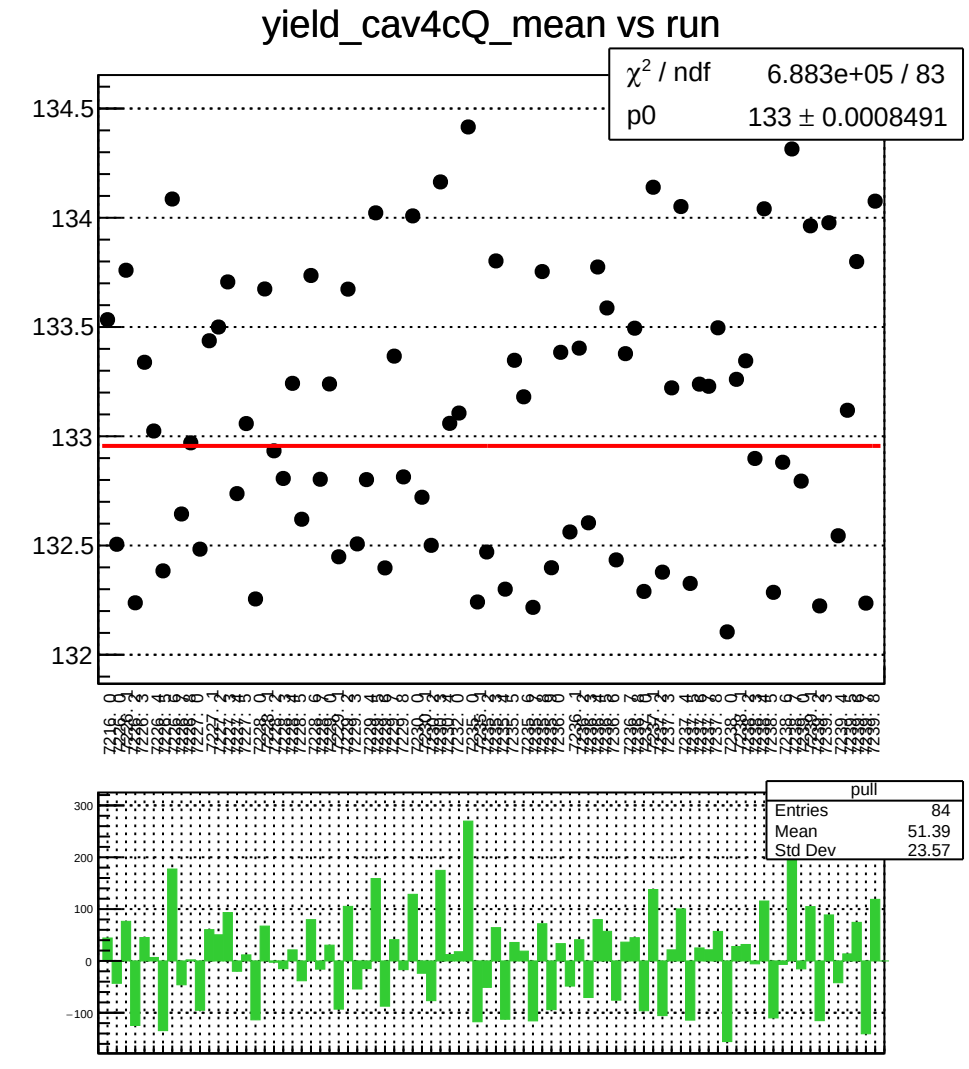

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.917e+04 / 83
p0 0.5483 ± 0.0004325
0.8
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4

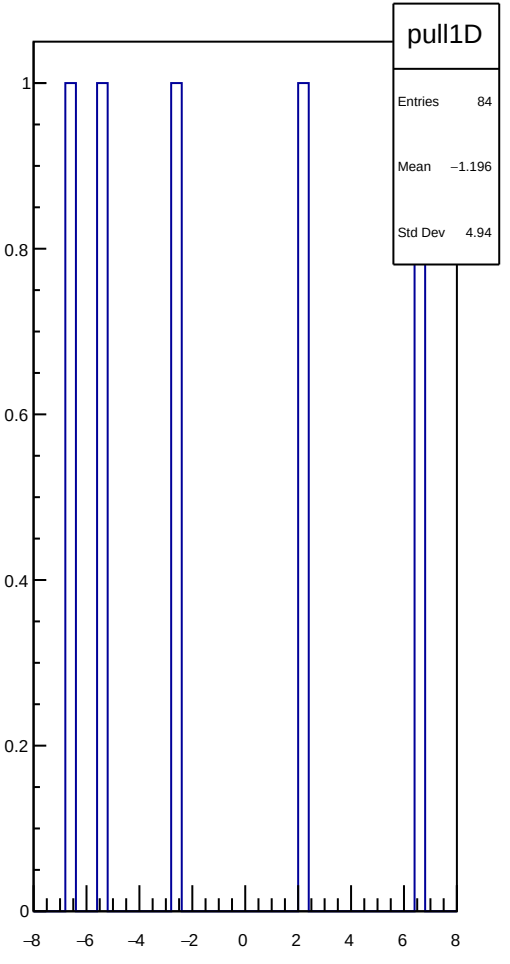

yield_cav4bQ_mean vs run
χ² / ndf 1.206e+06 / 83
p0 159.2 ± 0.001178
162
161
160
159
158

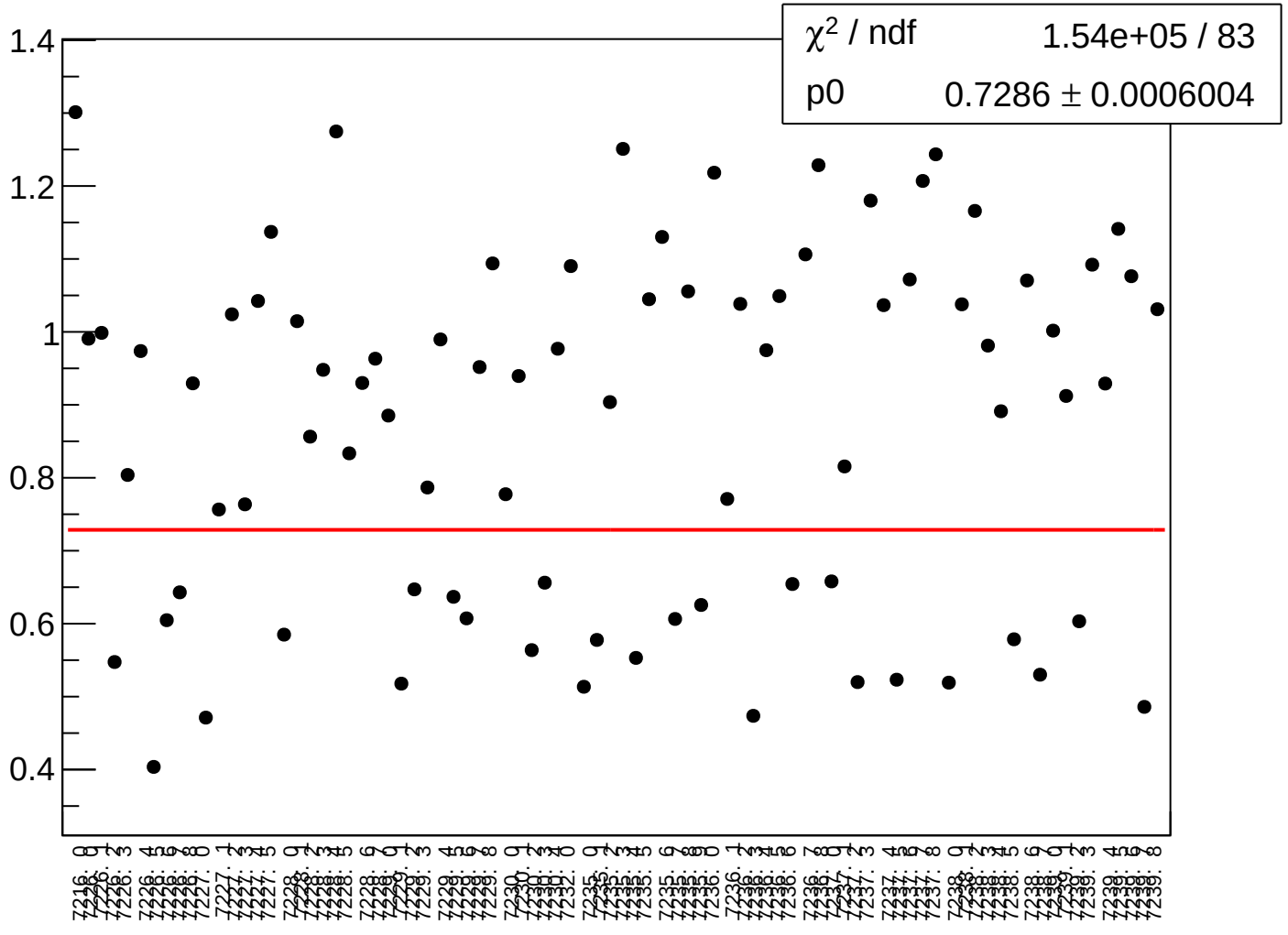

pull
Entries 84
Mean 56.42
Std Dev 18.65
400
300
200
100
0
−100
−200
−300

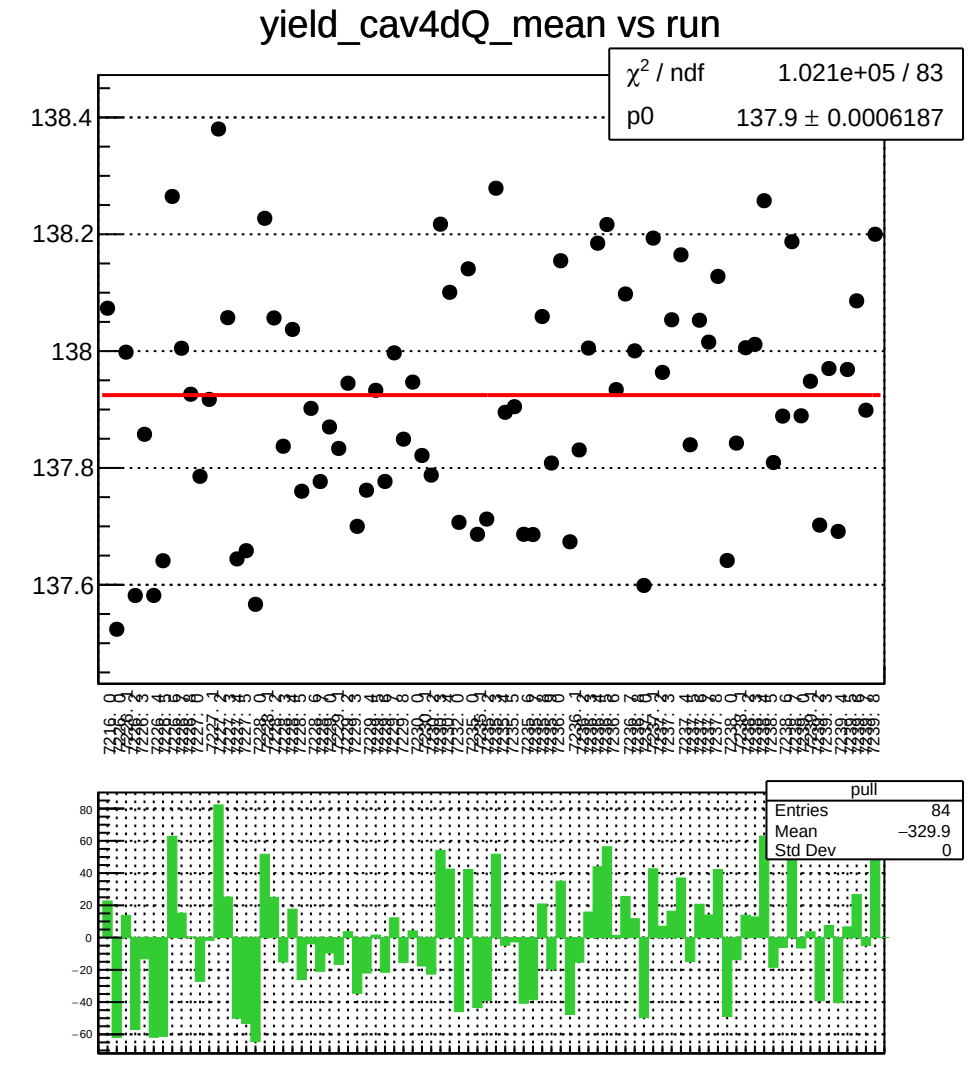

pull1D
Entries 84
Mean −2.518
Std Dev 4.414
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

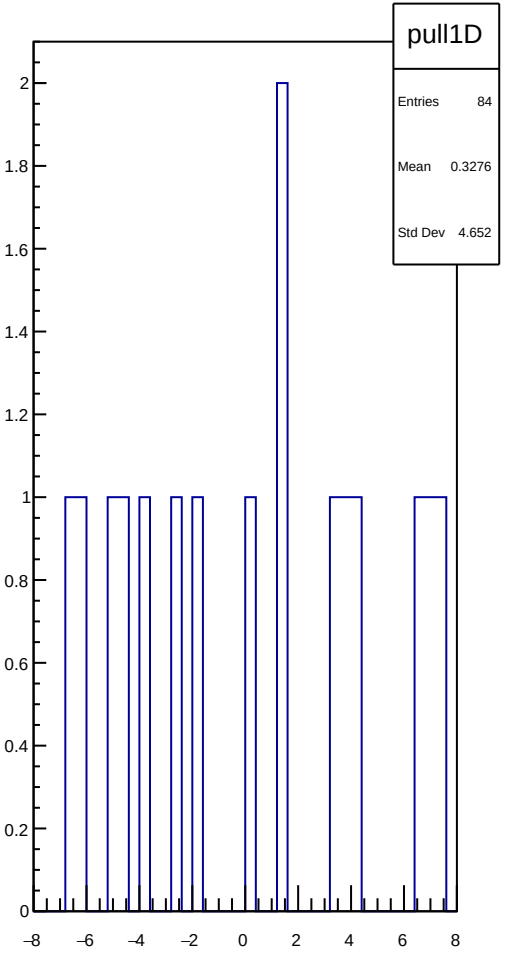

yield_cav4bQ_rms vs run
χ² / ndf 2.631e+05 / 83
p0 0.9729 ± 0.0008332
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4

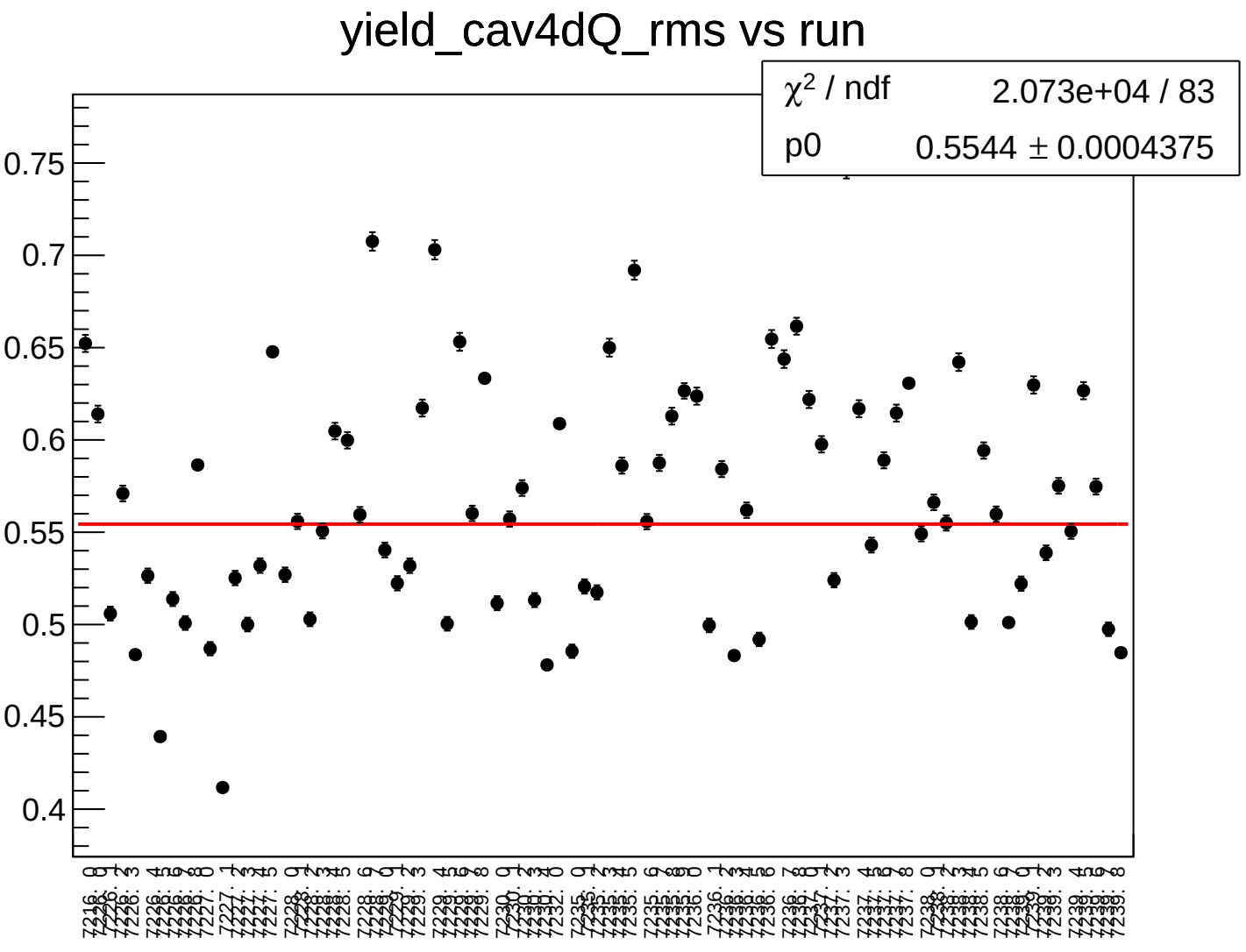

yield_cav4cQ_mean vs run
χ² / ndf 6.883e+05 / 83
p0 133 ± 0.0008491
134.5
134
133.5
133
132.5
132
pull
Entries 84
Mean 51.39
Std Dev 23.57
300
200
100
0
−100

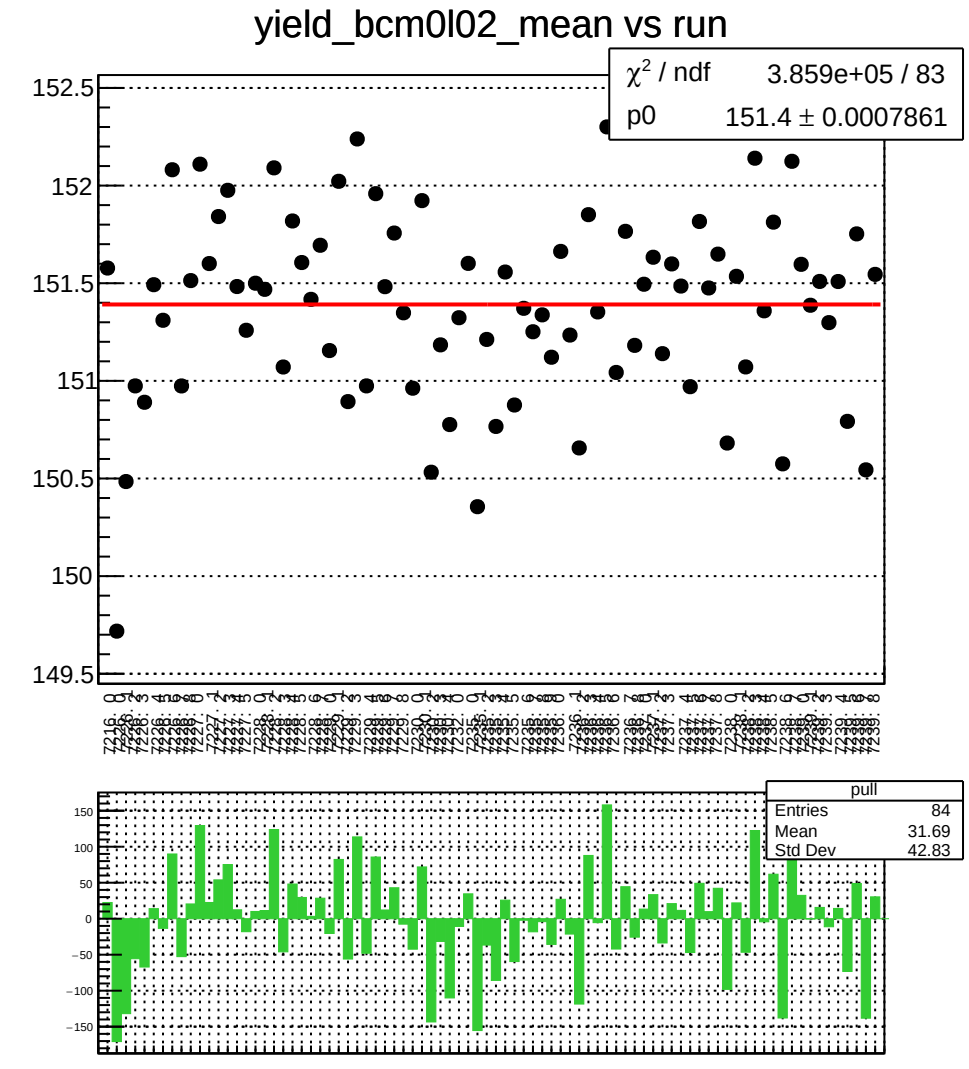

pull1D
Entries 84
Mean −1.196
Std Dev 4.94
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

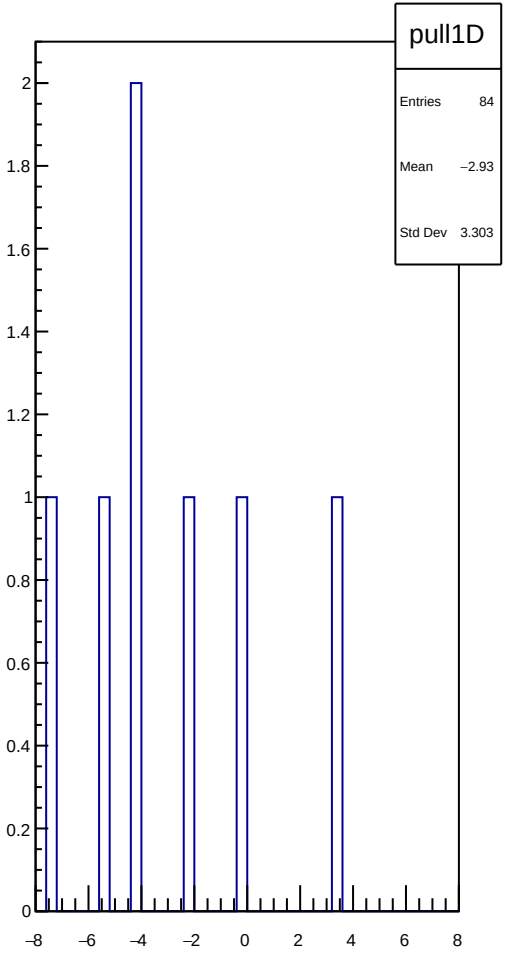

yield_cav4cQ_rms vs run
χ² / ndf 1.54e+05 / 83
p0 0.7286 ± 0.0006004
1.4
1.2
1
0.8
0.6
0.4

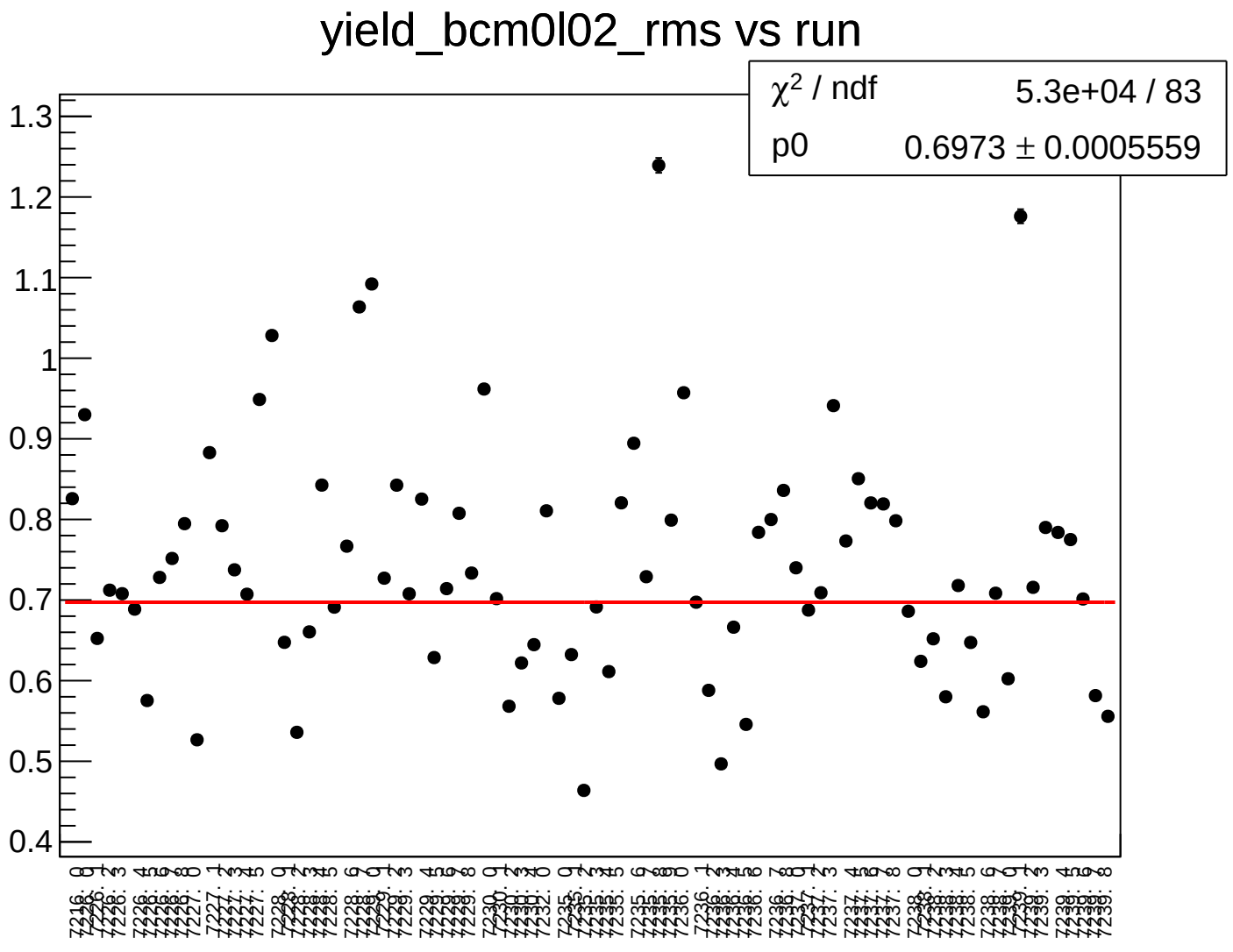

yield_cav4dQ_mean vs run
χ² / ndf 1.021e+05 / 83
p0 137.9 ± 0.0006187
138.4
138.2
138
137.8
137.6
pull
Entries 84
Mean −329.9
Std Dev 0
80
60
40
20
0
−20
−40
−60

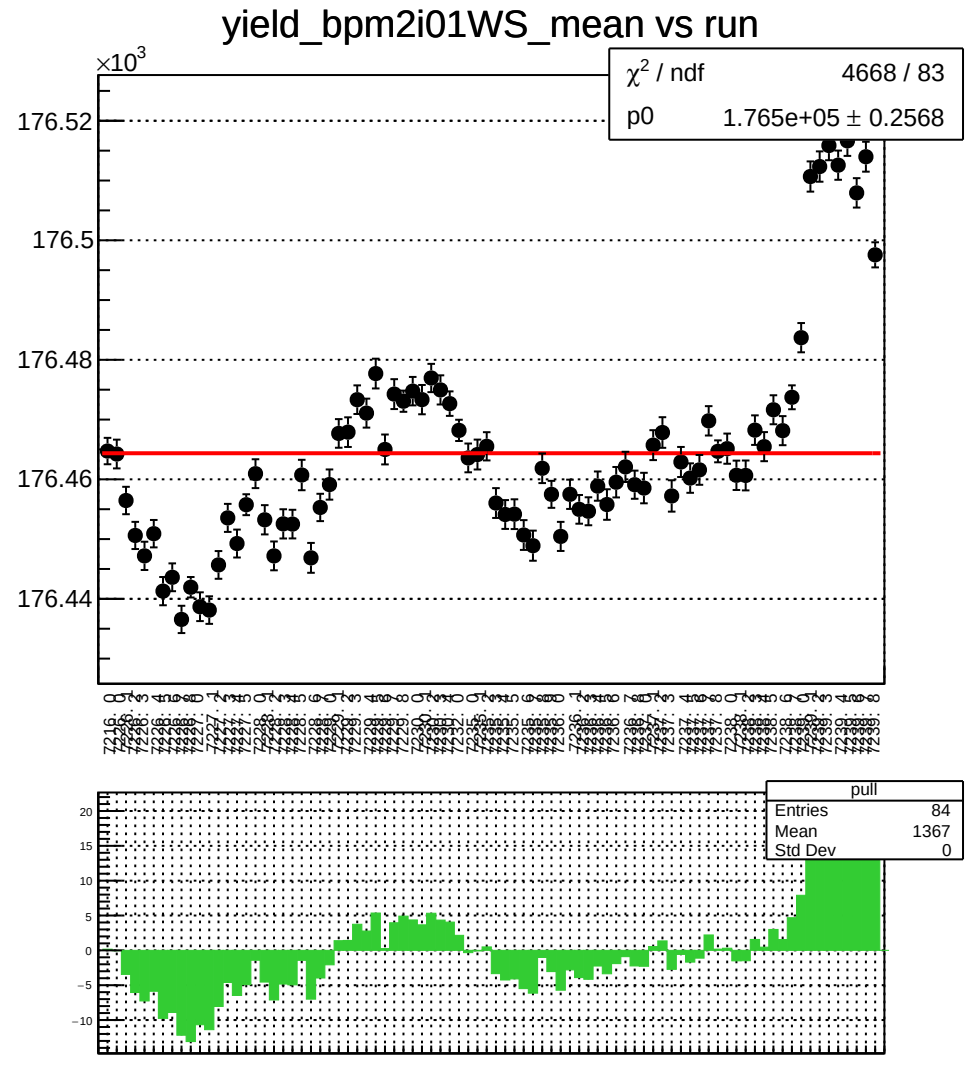

pull1D
Entries 84
Mean 0.3276
Std Dev 4.652
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

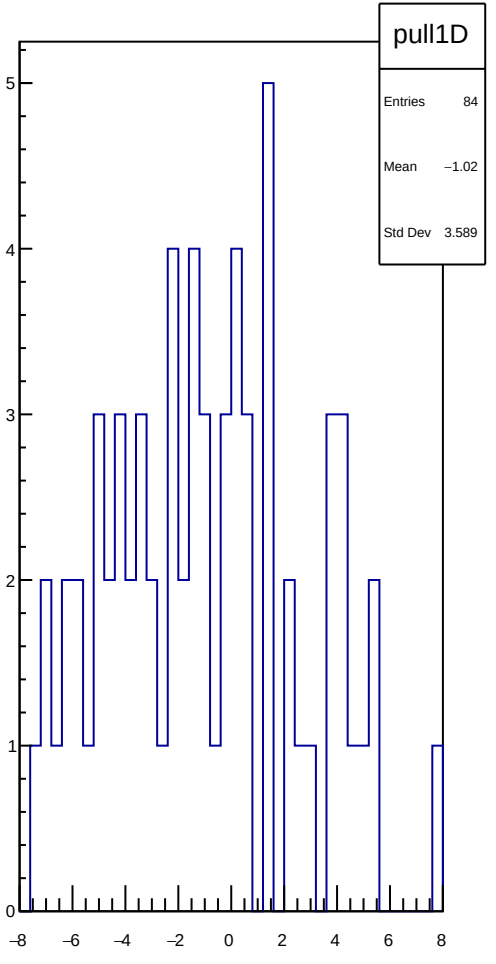

yield_cav4dQ_rms vs run
χ² / ndf 2.073e+04 / 83
p0 0.5544 ± 0.0004375
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4

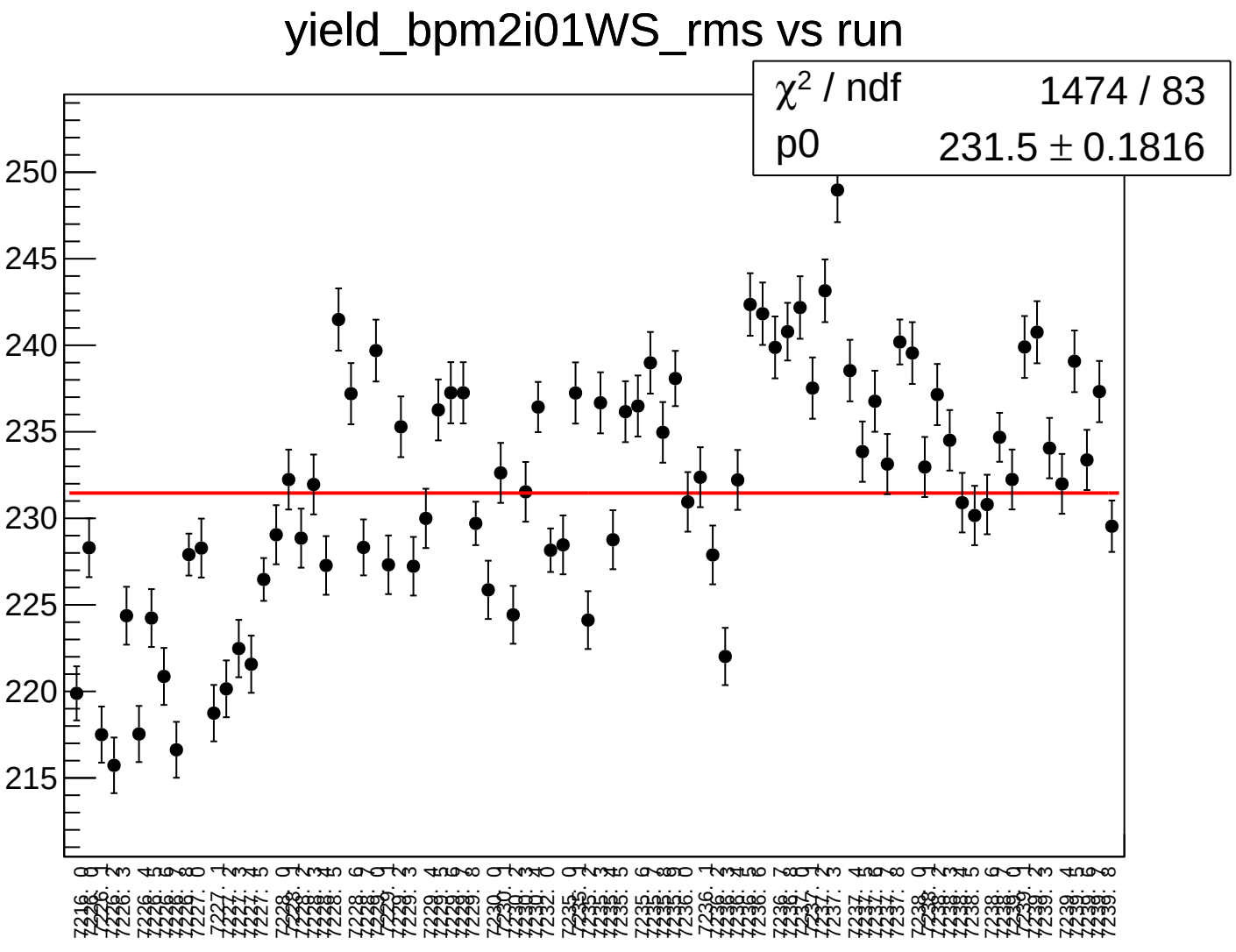

yield_bcm0l02_mean vs run
χ² / ndf 3.859e+05 / 83
p0 151.4 ± 0.0007861
152.5
152
151.5
151
150.5
150
149.5
pull
Entries 84
Mean 31.69
Std Dev 42.83
150
100
50
0
−50
−100
−150

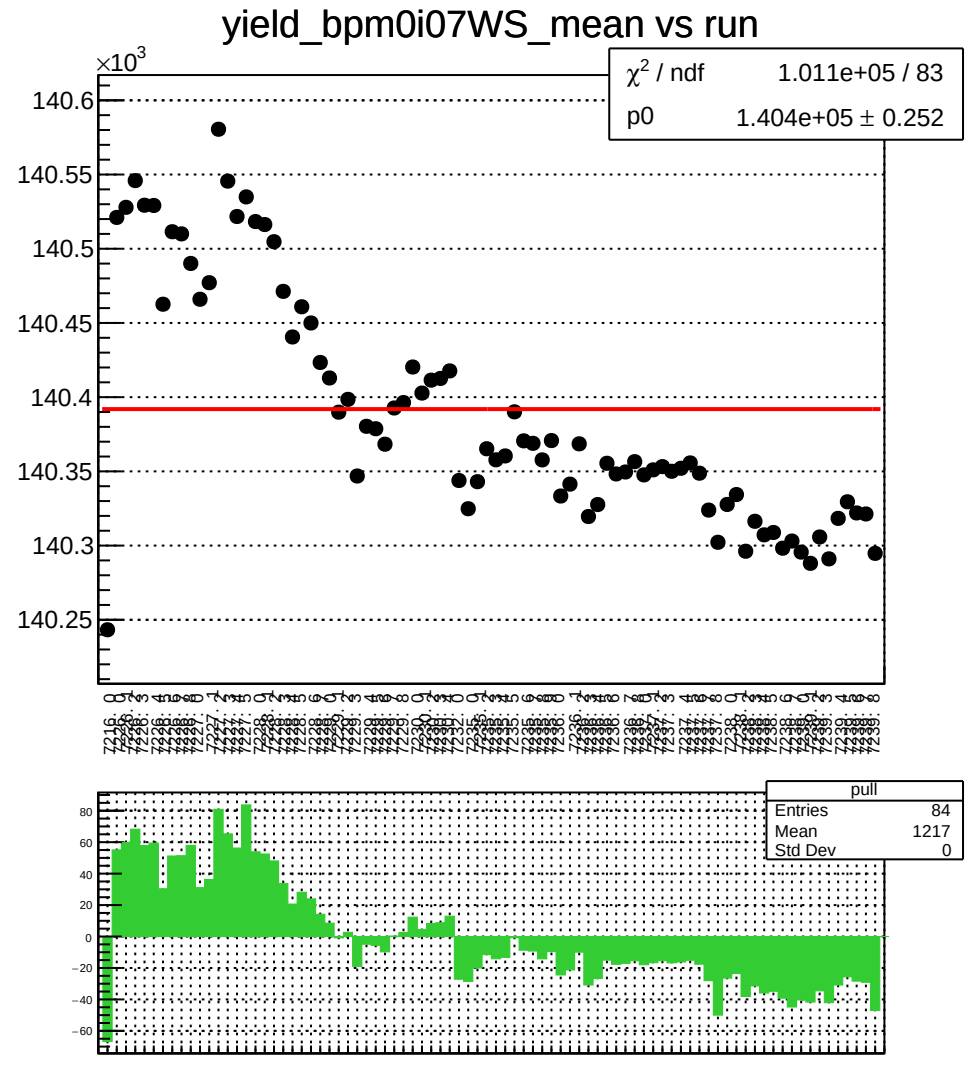

pull1D
Entries 84
Mean −2.93
Std Dev 3.303
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

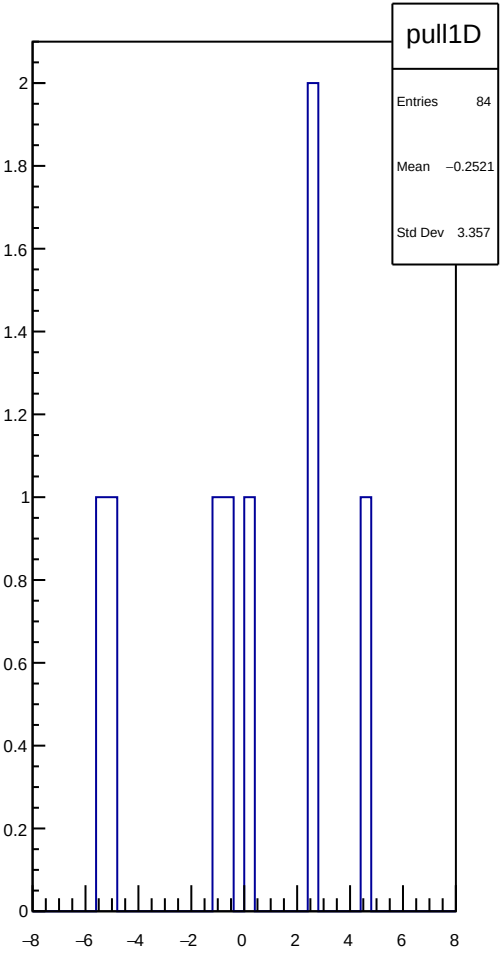

yield_bcm0l02_rms vs run
χ² / ndf 5.3e+04 / 83
p0 0.6973 ± 0.0005559
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4

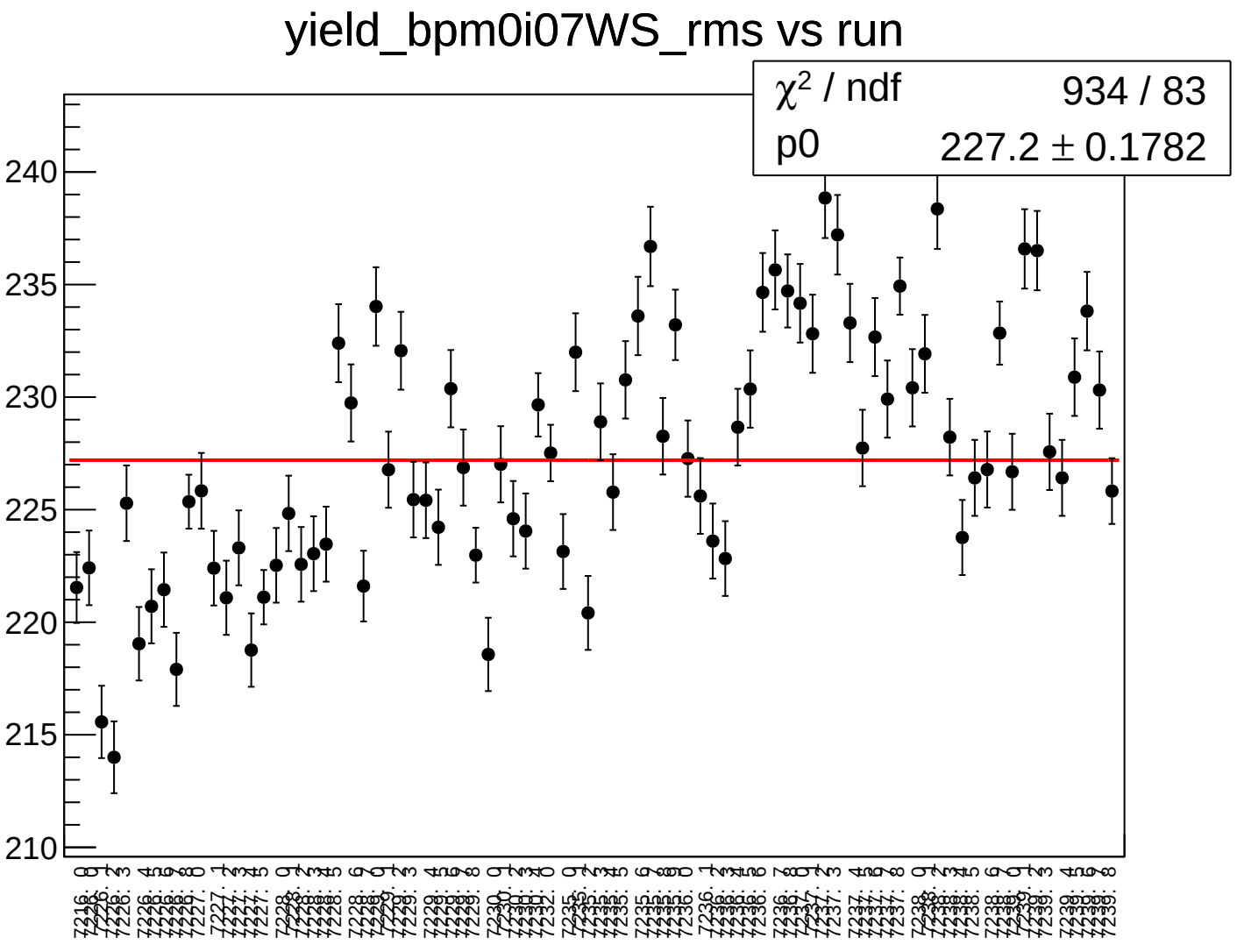

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 4668 / 83
p0 1.765e+05 ± 0.2568
176.52
176.5
176.48
176.46
176.44
pull
Entries 84
Mean 1367
Std Dev 0
20
15
10
5
0
−5
−10

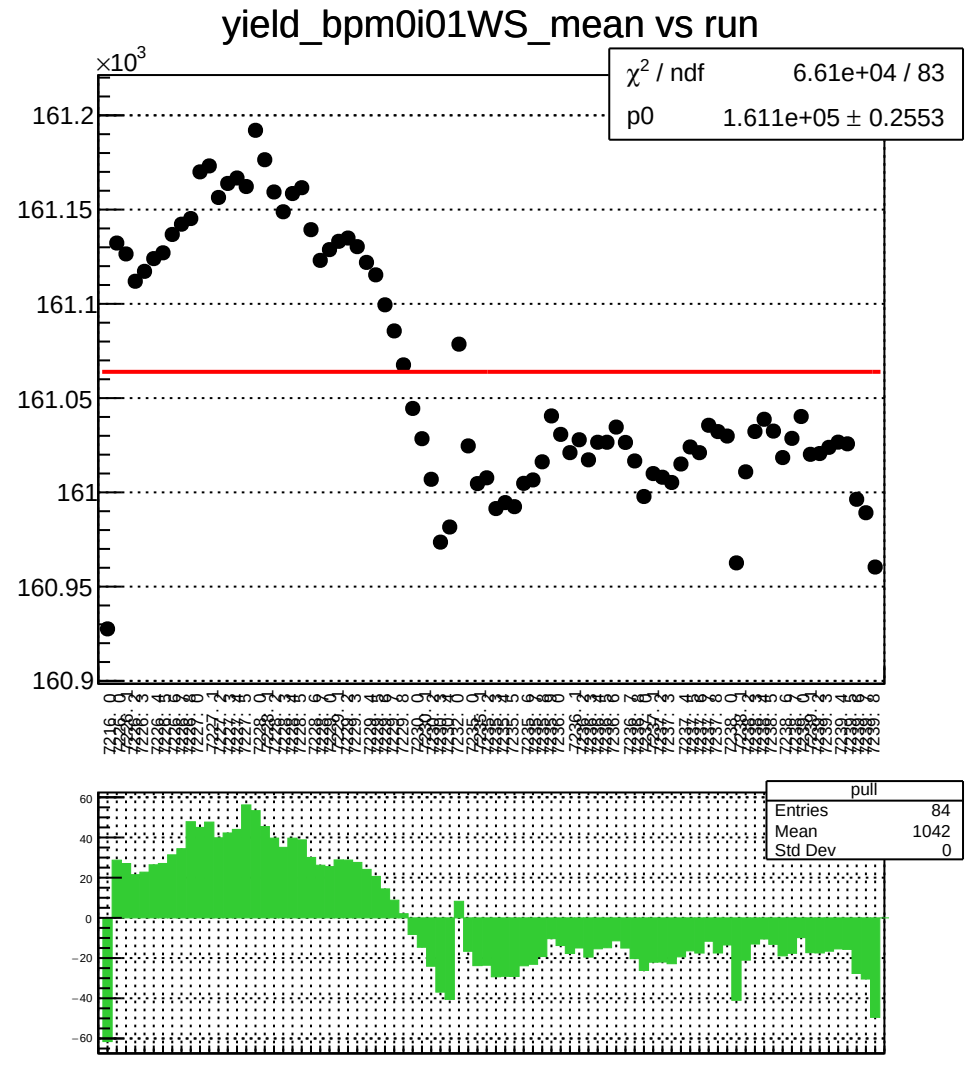

pull1D
Entries 84
Mean −1.02
Std Dev 3.589
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

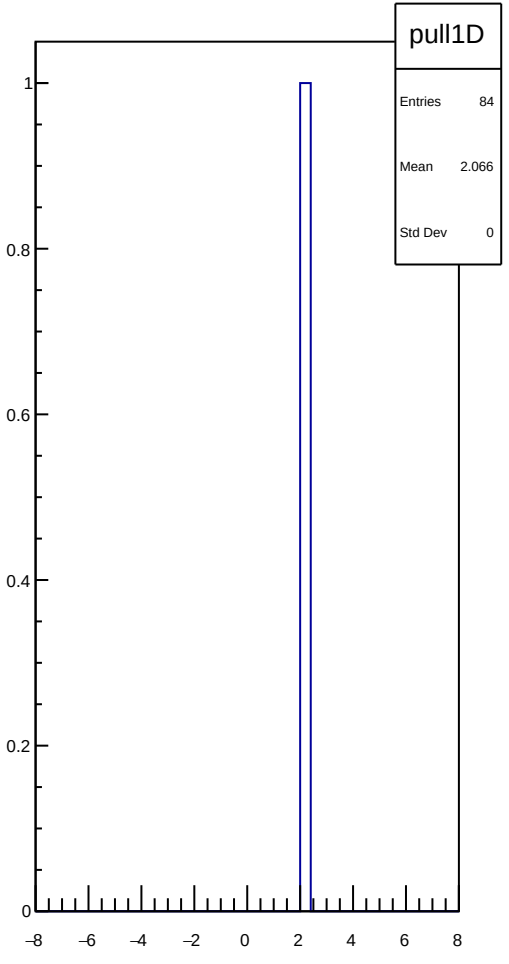

yield_bpm2i01WS_rms vs run
χ² / ndf 1474 / 83
p0 231.5 ± 0.1816
250
245
240
235
230
225
220
215

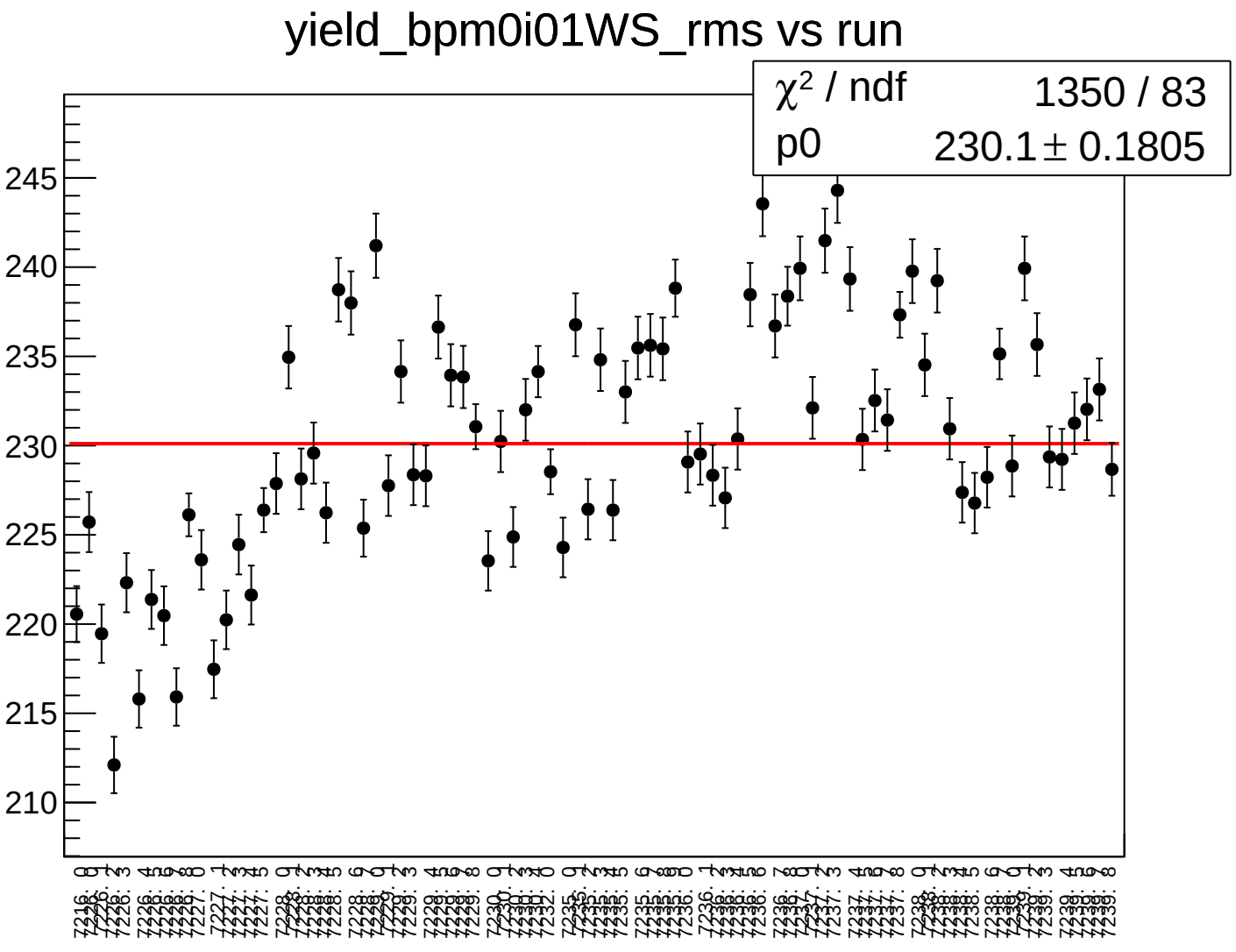

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 1.011e+05 / 83
p0 1.404e+05 ± 0.252
140.6
140.55
140.5
140.45
140.4
140.35
140.3
140.25
pull
Entries 84
Mean 1217
Std Dev 0
80
60
40
20
0
−20
−40
−60

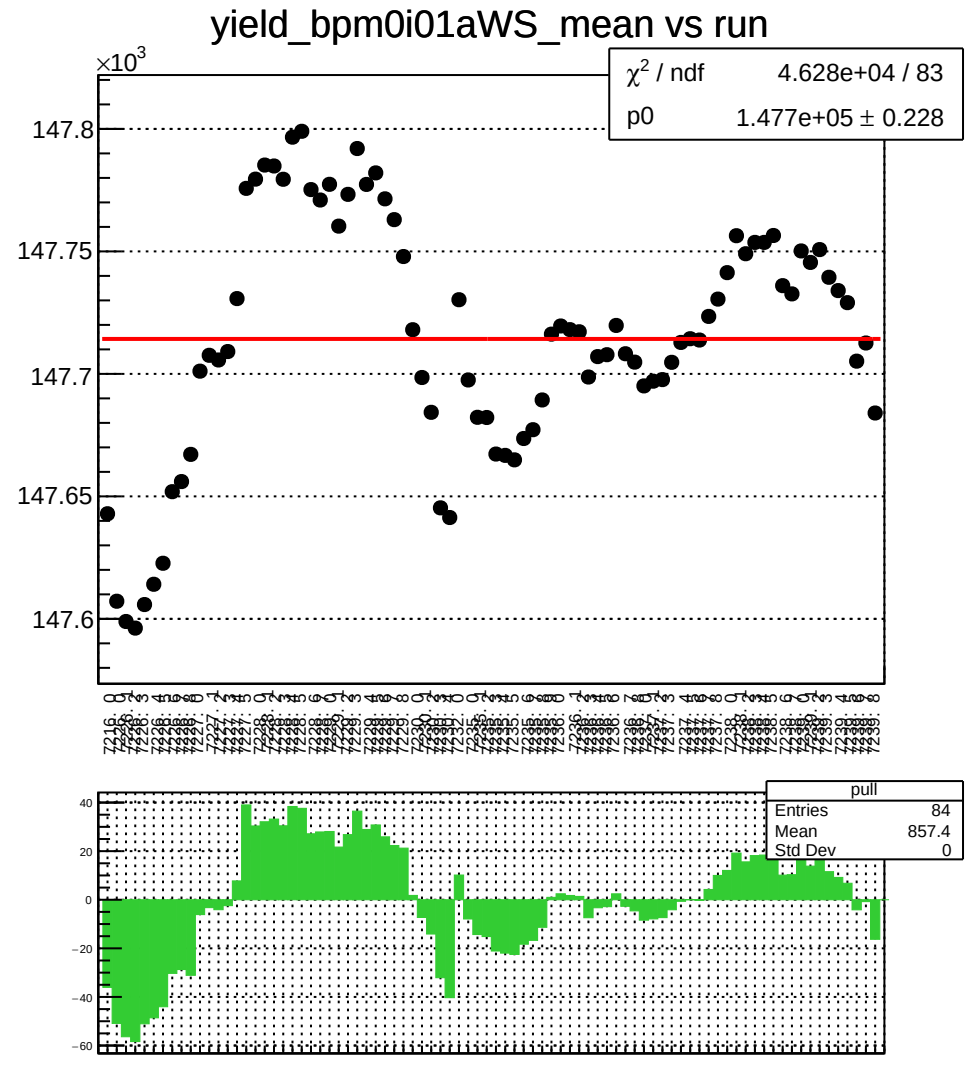

pull1D
Entries 84
Mean −0.2521
Std Dev 3.357
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

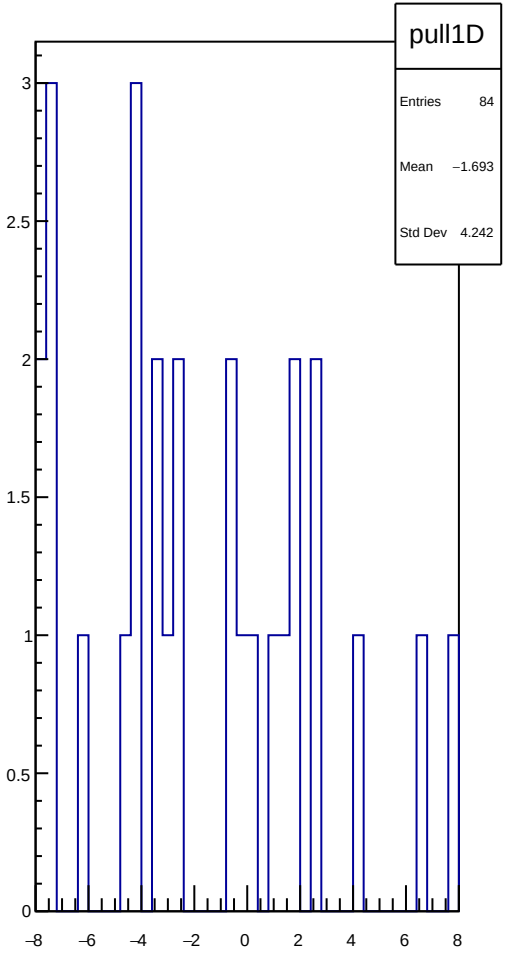

yield_bpm0i07WS_rms vs run
χ^2 / ndf 934 / 83
p0 227.2 ± 0.1782
240
235
230
225
220
215
210

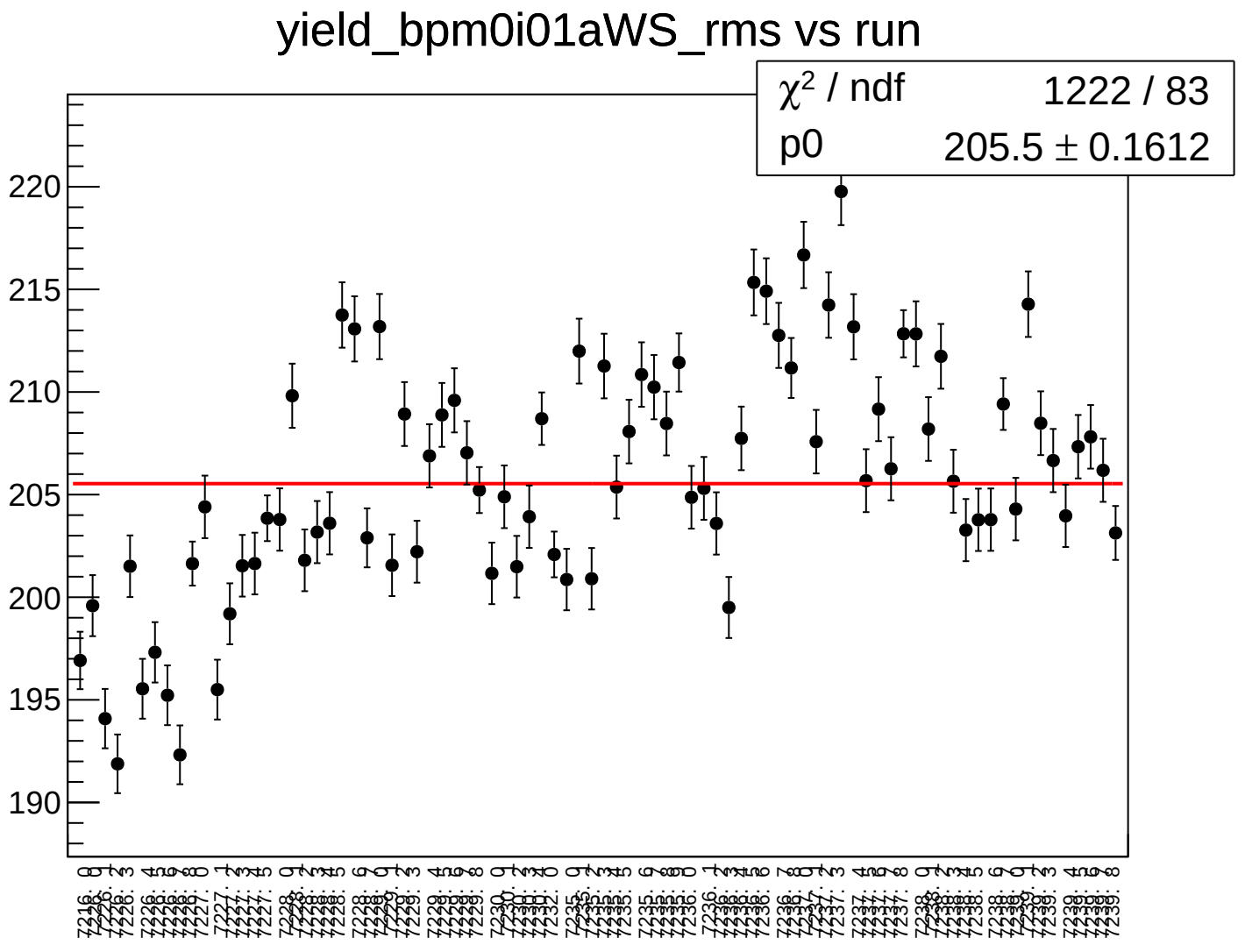

yield_bpm0i01WS_mean vs run
×10^3
χ^2 / ndf 6.61e+04 / 83
p0 1.611e+05 ± 0.2553
161.2
161.15
161.1
161.05
161
160.95
160.9
pull
Entries 84
Mean 1042
Std Dev 0
60
40
20
0
−20
−40
−60

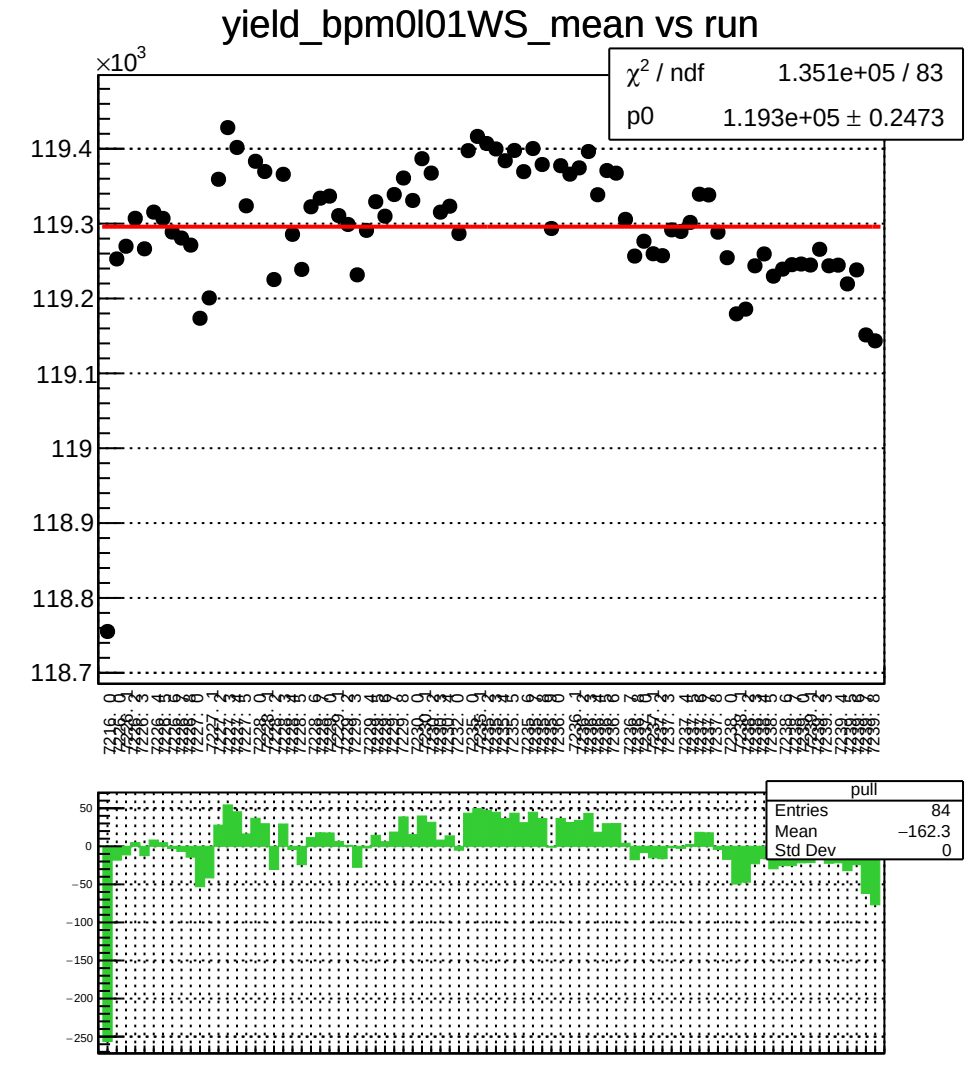

pull1D
Entries 84
Mean 2.066
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

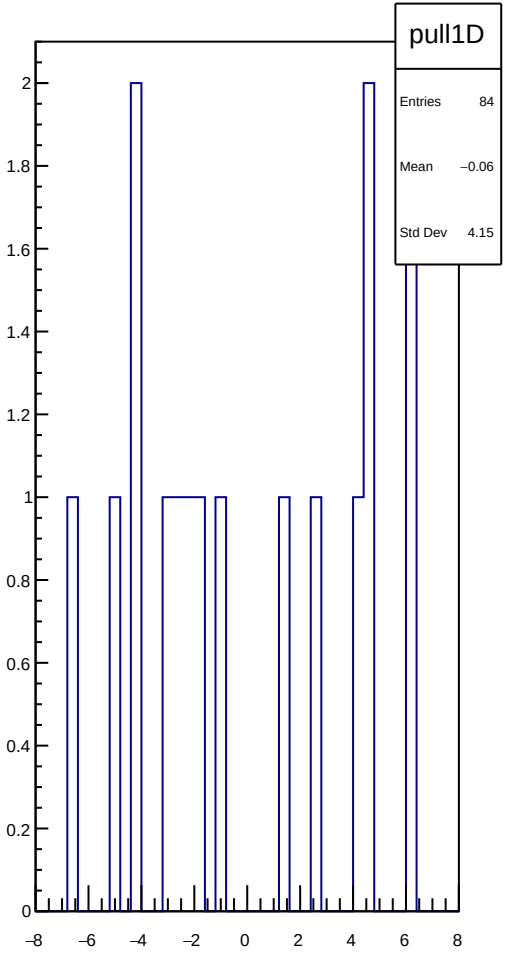

yield_bpm0i01WS_rms vs run
χ² / ndf 1350 / 83
p0 230.1 ± 0.1805
245
240
235
230
225
220
215
210

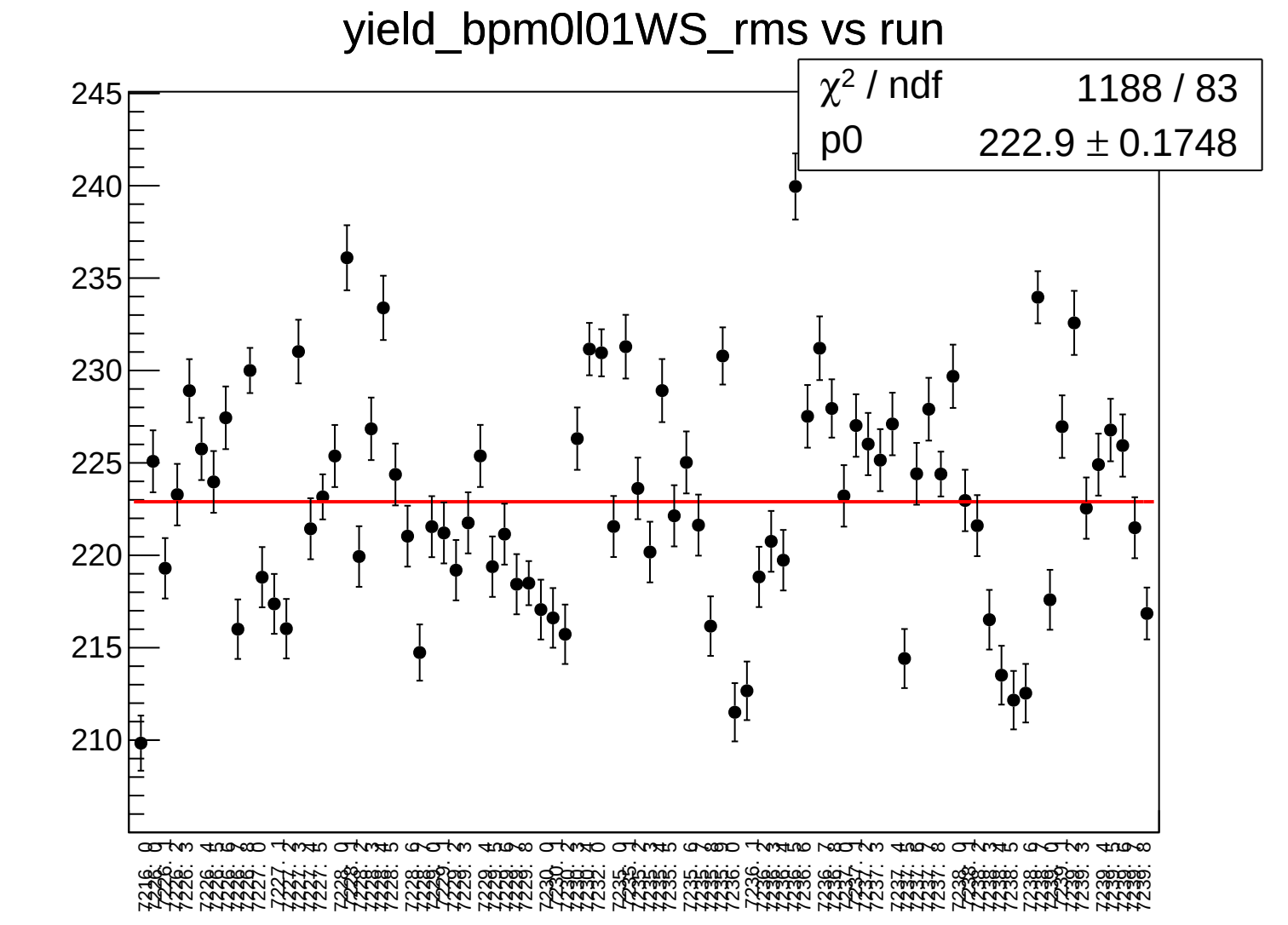

yield_bpm0i01aWS_mean vs run
×10^3
147.8
147.75
147.7
147.65
147.6
χ² / ndf 4.628e+04 / 83
p0 1.477e+05 ± 0.228
pull
Entries 84
Mean 857.4
Std Dev 0
40
20
0
−20
−40
−60

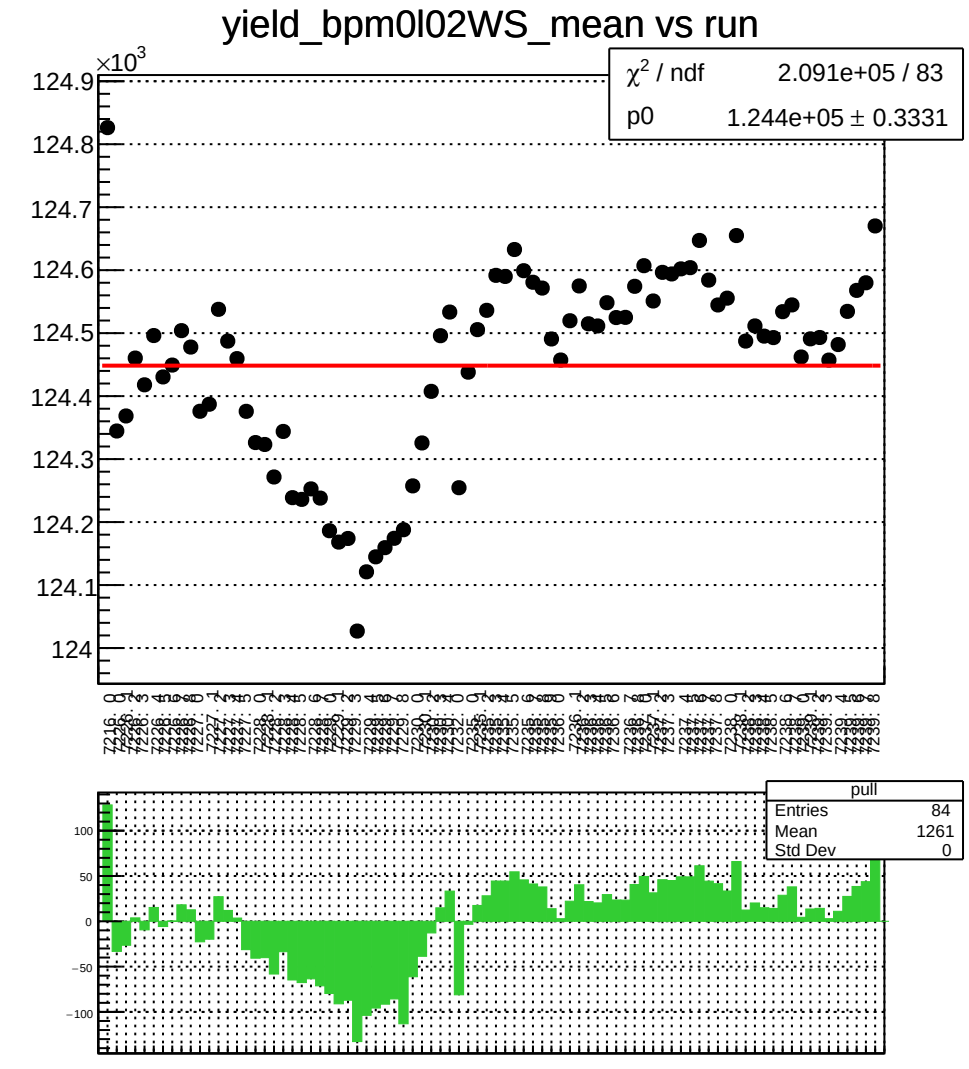

pull1D
Entries 84
Mean −1.693
Std Dev 4.242
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

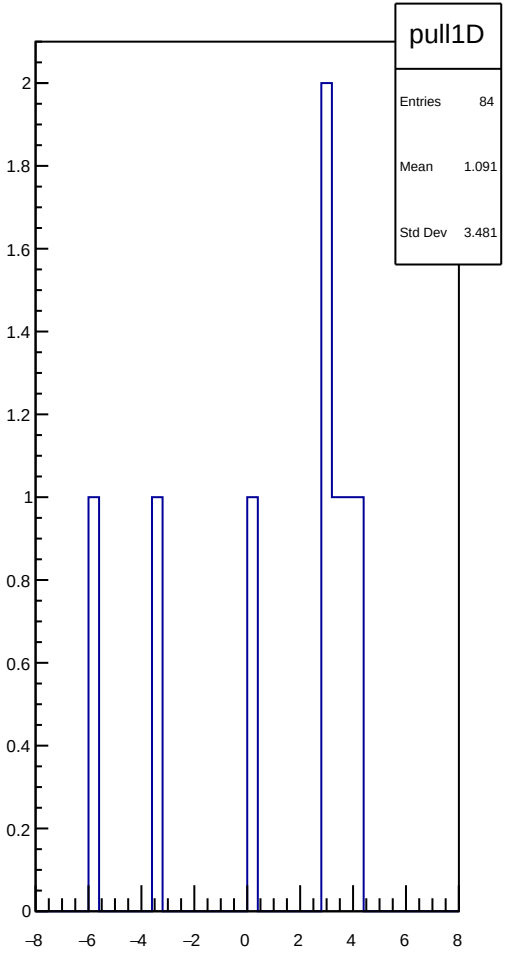

yield_bpm0i01aWS_rms vs run
χ² / ndf 1222 / 83
p0 205.5 ± 0.1612
220
215
210
205
200
195
190

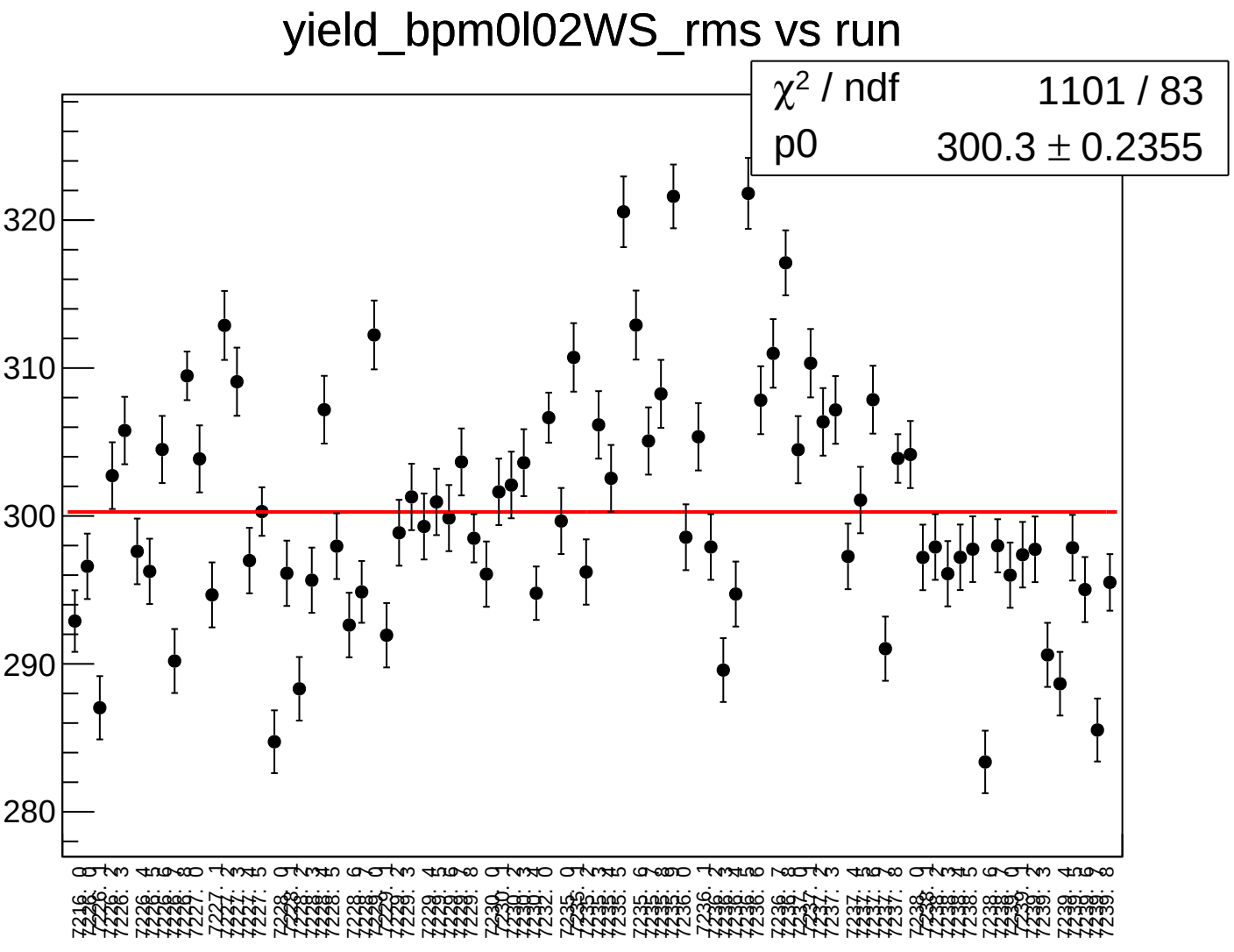

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 1.351e+05 / 83
p0 1.193e+05 ± 0.2473
119.4
119.3
119.2
119.1
119
118.9
118.8
118.7
pull
Entries 84
Mean −162.3
Std Dev 0
50
0
−50
−100
−150
−200
−250

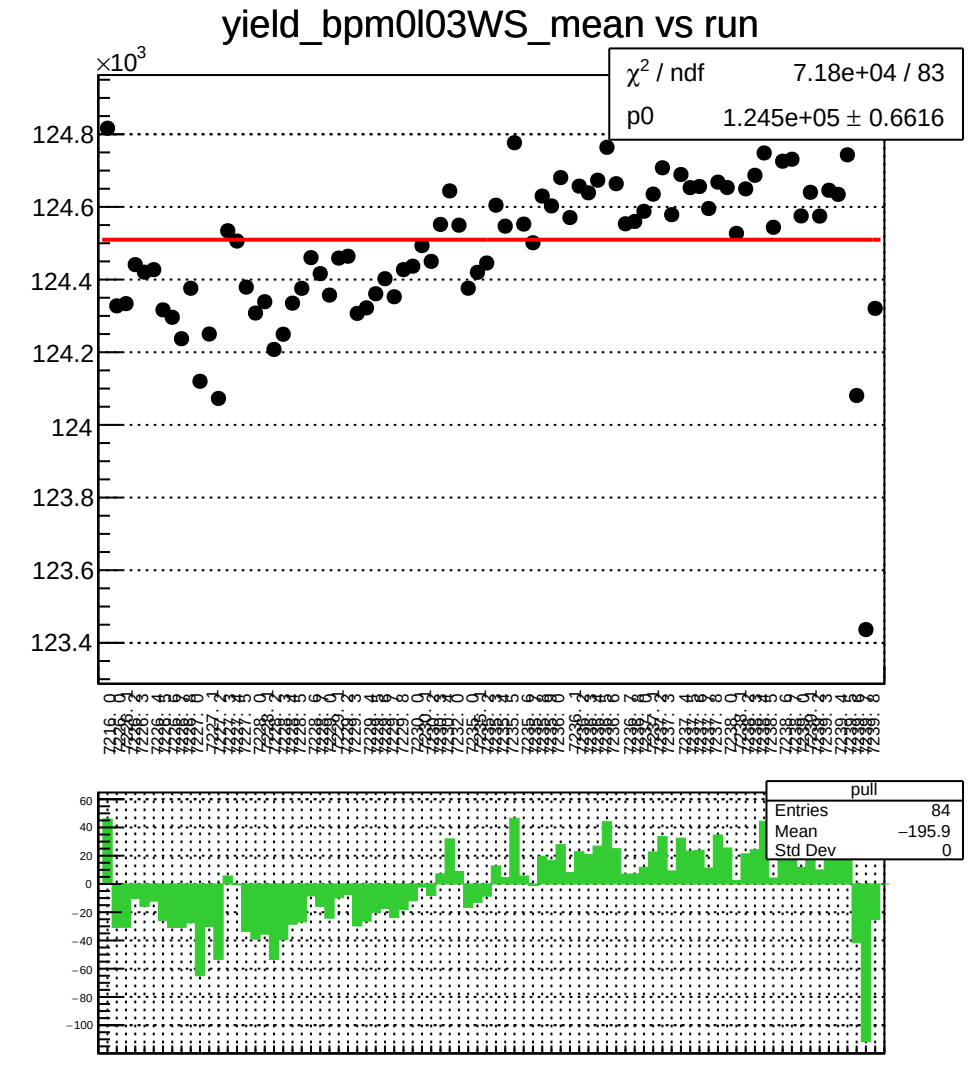

pull1D
Entries 84
Mean −0.06
Std Dev 4.15
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

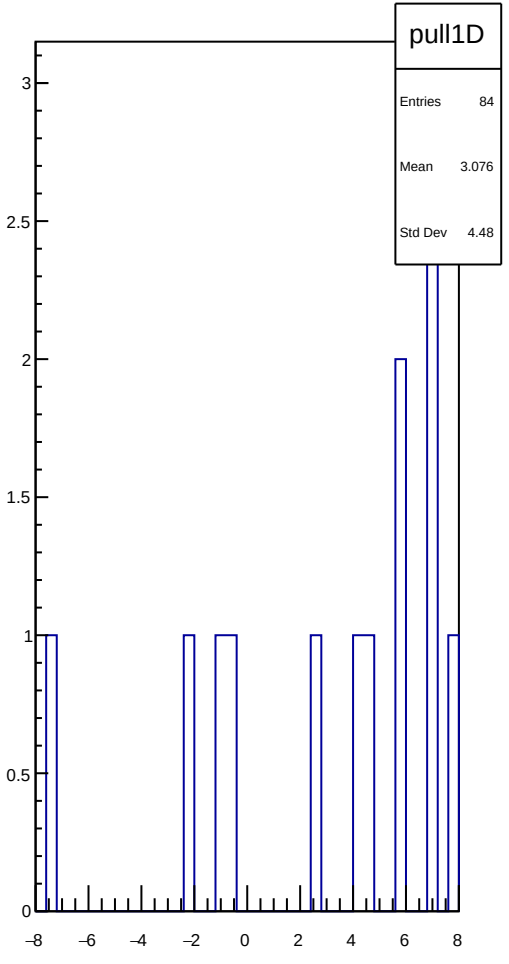

yield_bpm0l01WS_rms vs run
χ^2 / ndf 1188 / 83
p0 222.9 ± 0.1748
245
240
235
230
225
220
215
210

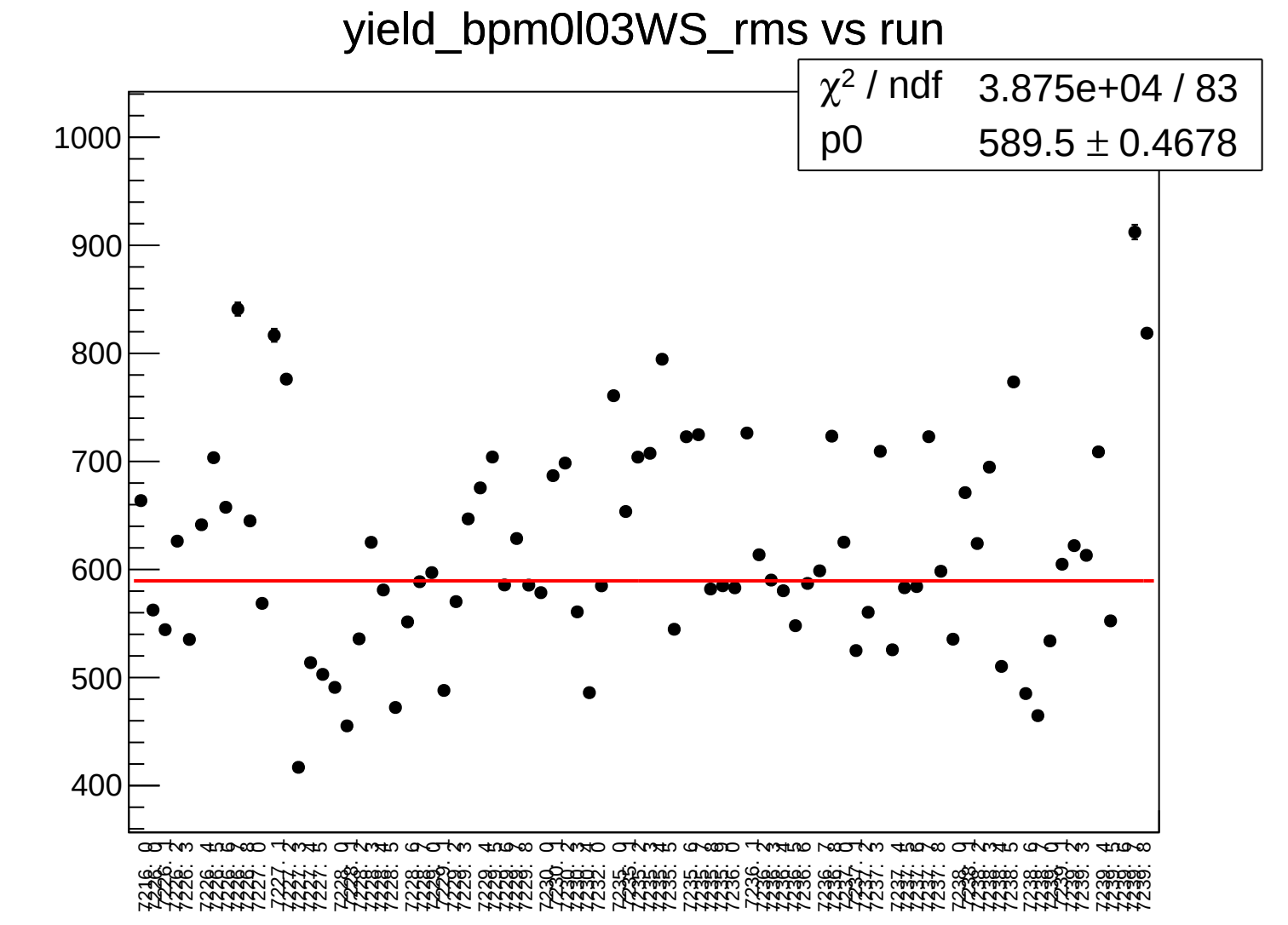

yield_bpm0l02WS_mean vs run
×10^3
χ^2 / ndf 2.091e+05 / 83
p0 1.244e+05 ± 0.3331
124.9
124.8
124.7
124.6
124.5
124.4
124.3
124.2
124.1
124
pull
Entries 84
Mean 1261
Std Dev 0
100
50
0
−50
−100

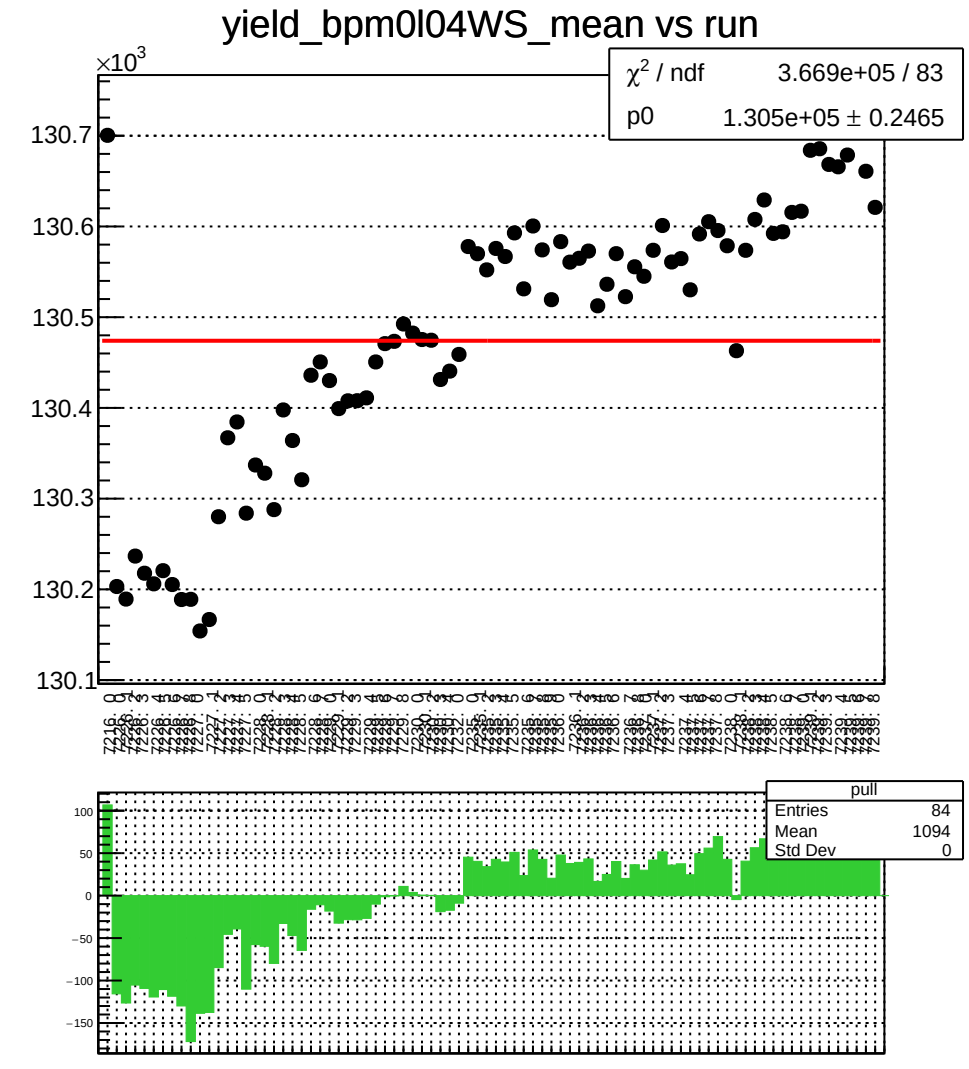

pull1D
Entries 84
Mean 1.091
Std Dev 3.481
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

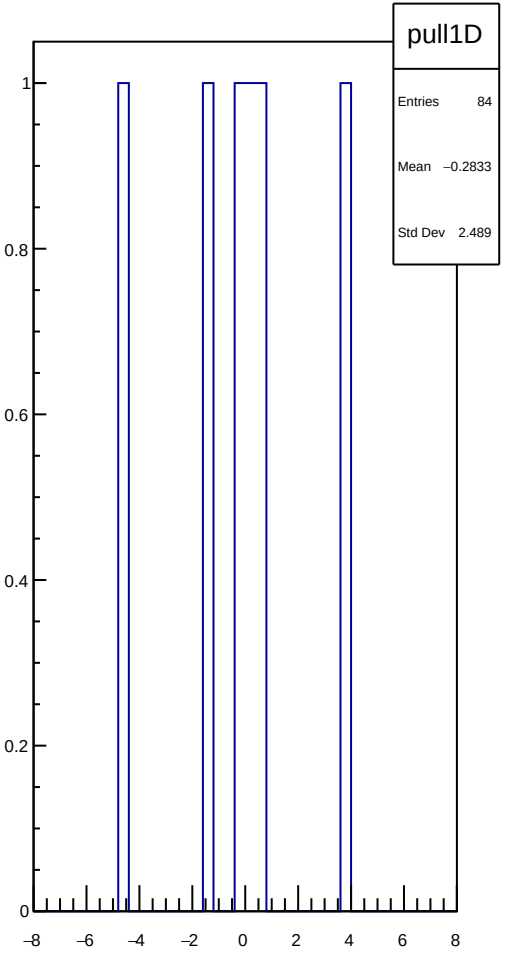

yield_bpm0l02WS_rms vs run
χ^2 / ndf 1101 / 83
p0 300.3 ± 0.2355
320
310
300
290
280

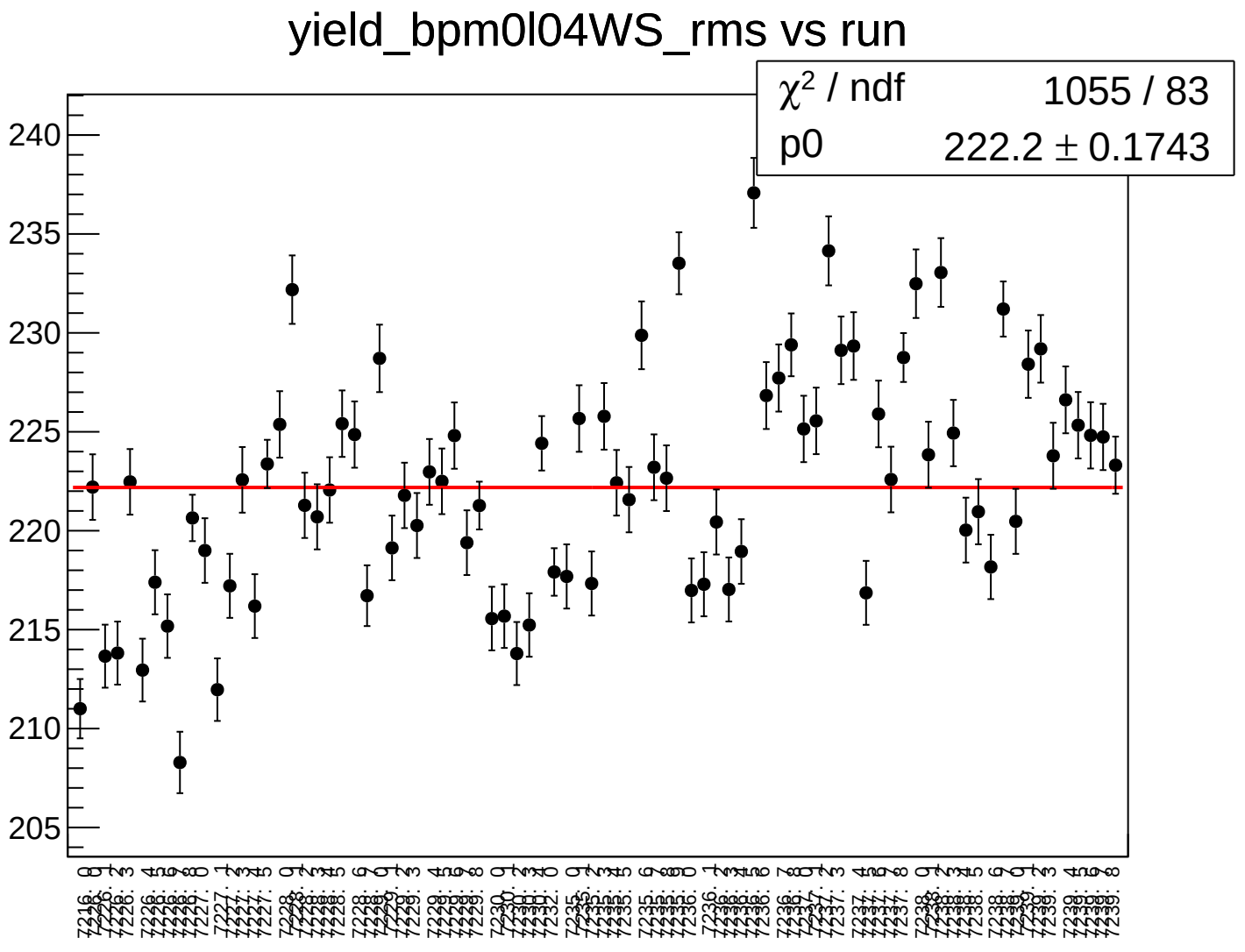

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 7.18e+04 / 83
p0 1.245e+05 ± 0.6616
124.8
124.6
124.4
124.2
124
123.8
123.6
123.4
pull
Entries 84
Mean −195.9
Std Dev 0
60
40
20
0
−20
−40
−60
−80
−100

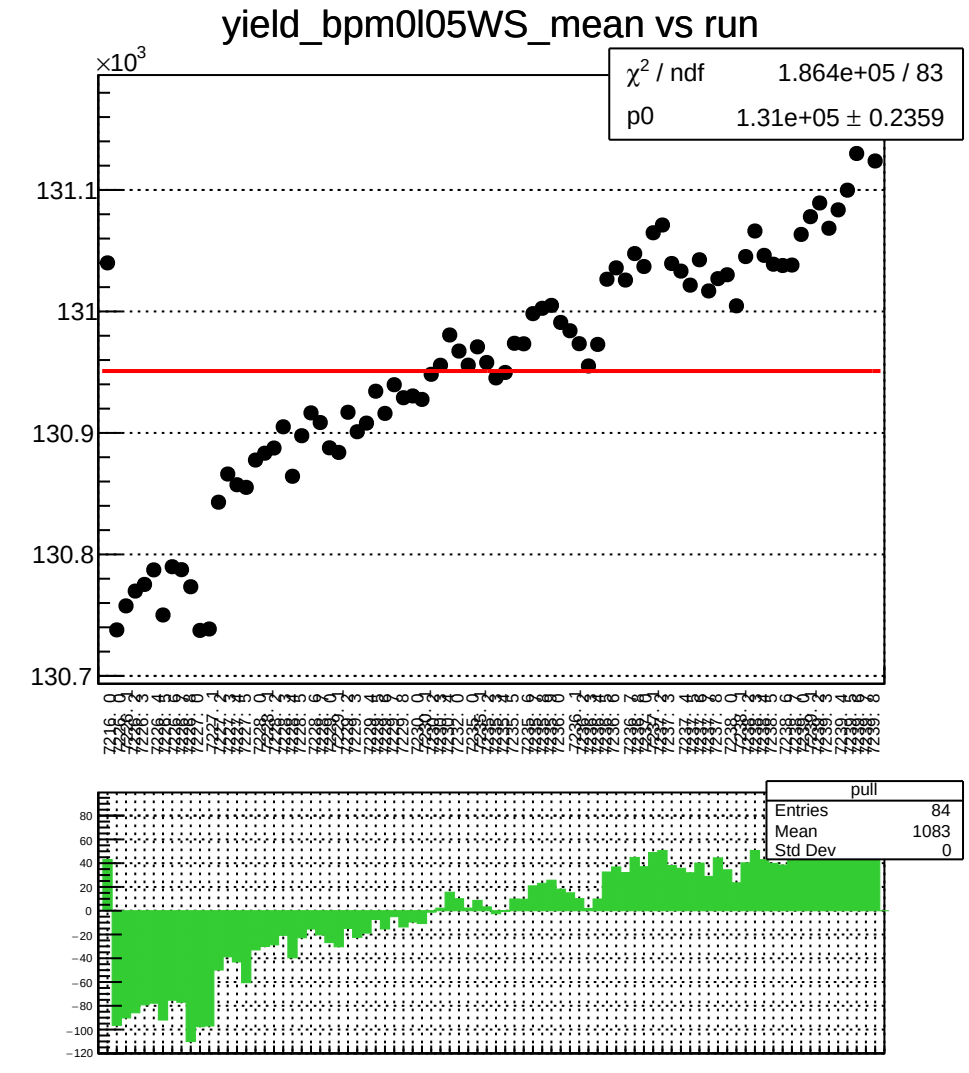

pull1D
Entries 84
Mean 3.076
Std Dev 4.48
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

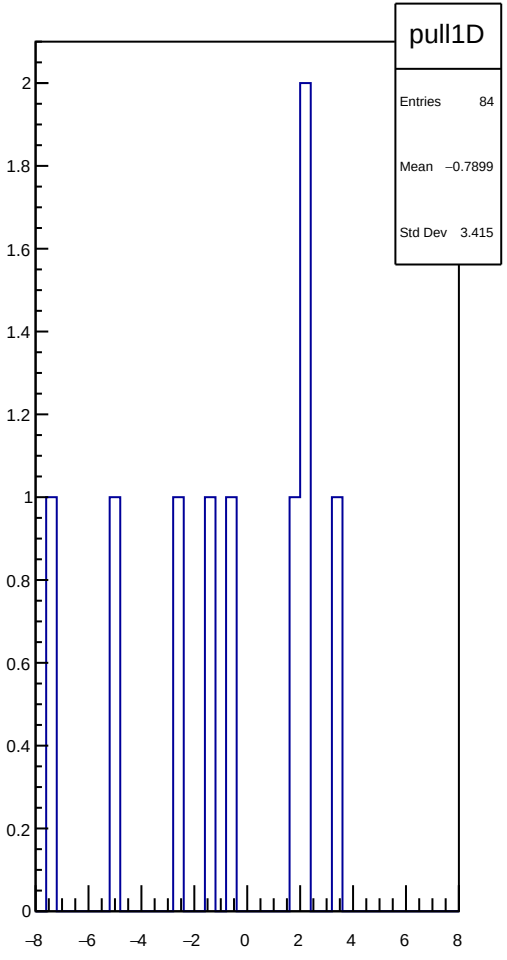

yield_bpm0l03WS_rms vs run
χ² / ndf 3.875e+04 / 83
p0 589.5 ± 0.4678
1000
900
800
700
600
500
400

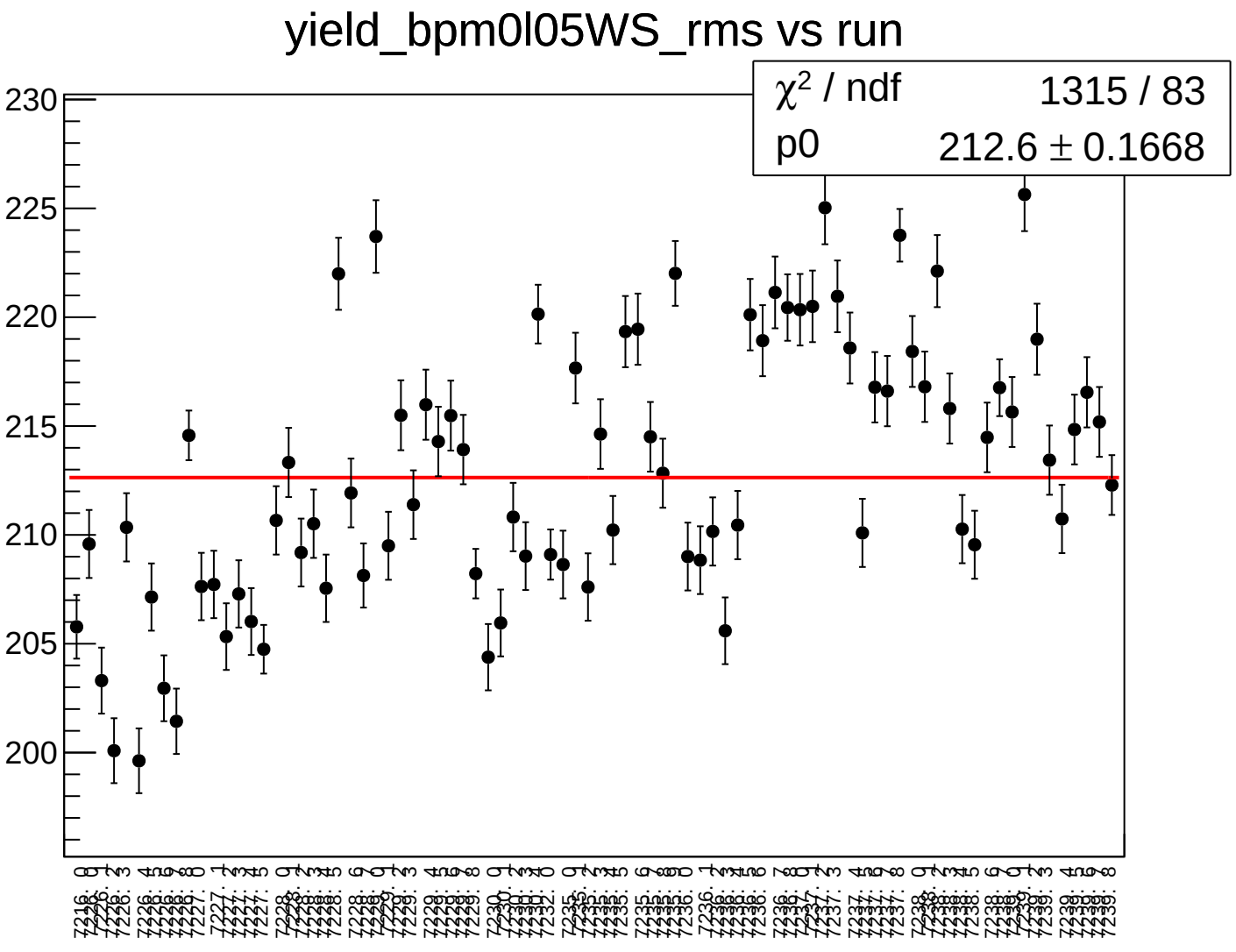

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 3.669e+05 / 83
p0 1.305e+05 ± 0.2465
130.7
130.6
130.5
130.4
130.3
130.2
130.1
pull
Entries 84
Mean 1094
Std Dev 0
100
50
0
−50
−100
−150

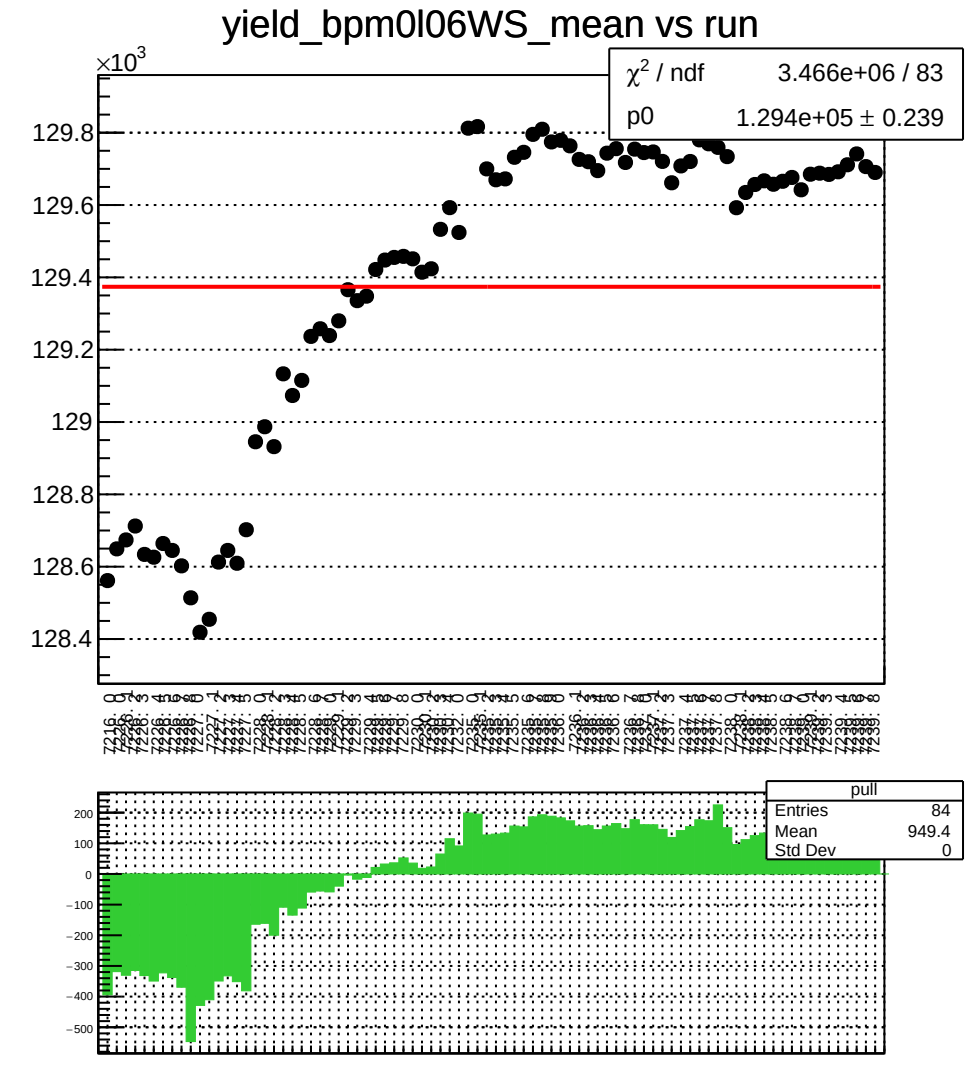

pull1D
Entries 84
Mean −0.2833
Std Dev 2.489
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

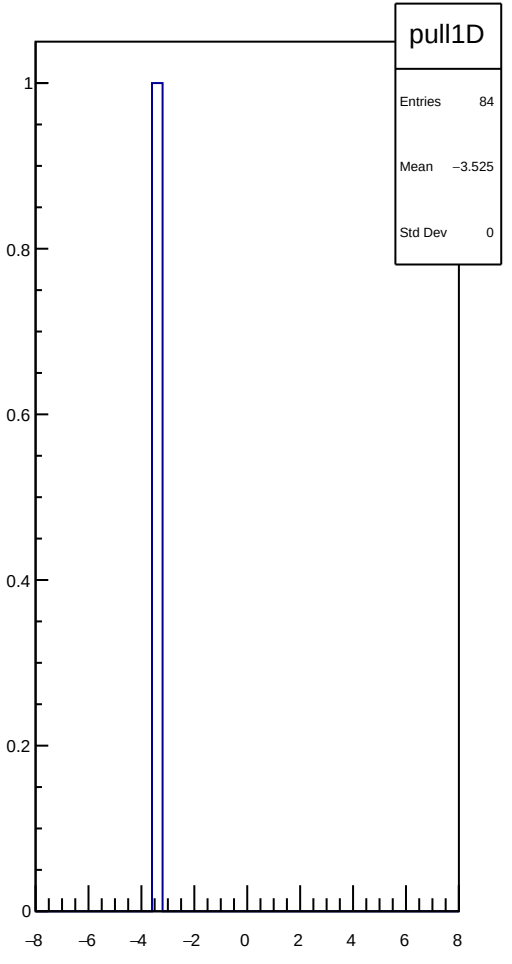

yield_bpm0l04WS_rms vs run
χ² / ndf 1055 / 83
p0 222.2 ± 0.1743
240
235
230
225
220
215
210
205

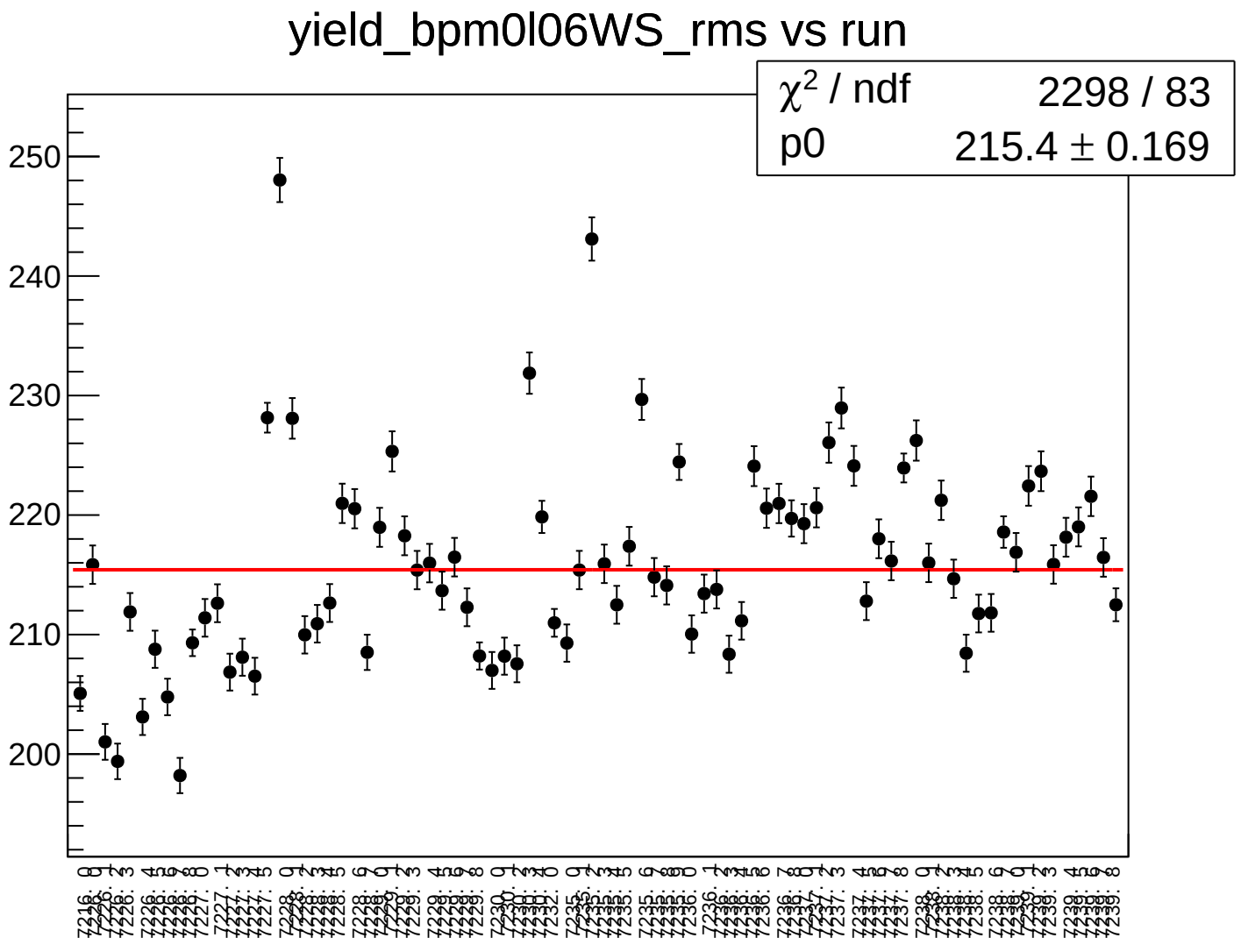

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 1.864e+05 / 83
p0 1.31e+05 ± 0.2359
131.1
131
130.9
130.8
130.7
pull
Entries 84
Mean 1083
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100
−120

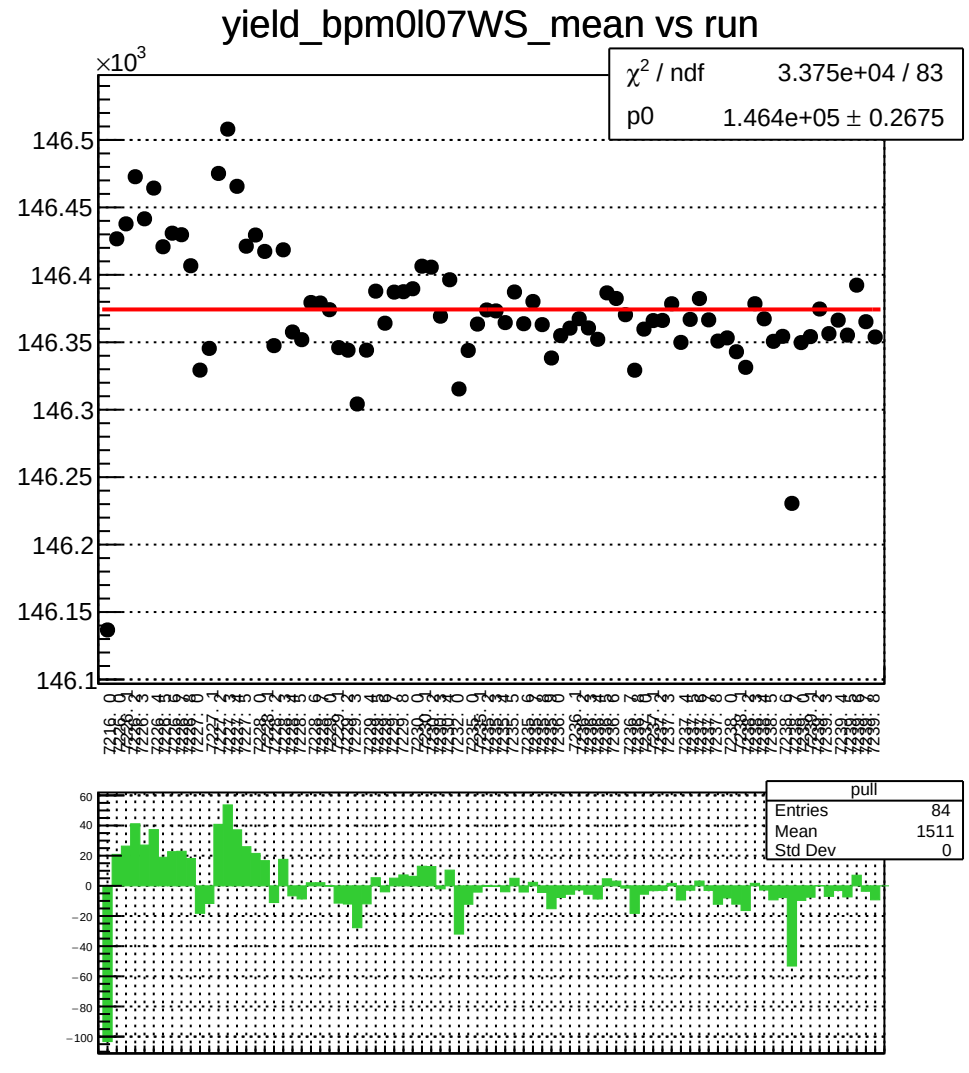

pull1D
Entries 84
Mean −0.7899
Std Dev 3.415
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

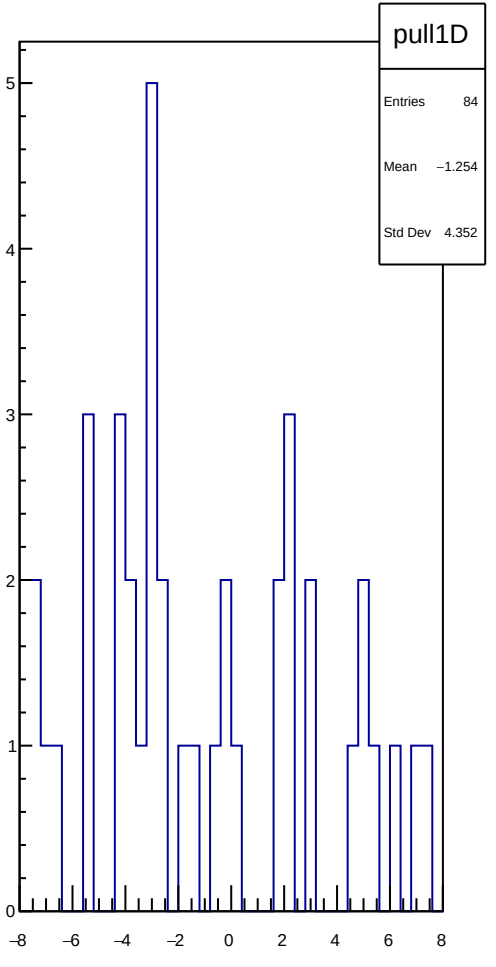

yield_bpm0l05WS_rms vs run
χ² / ndf 1315 / 83
p0 212.6 ± 0.1668
230
225
220
215
210
205
200

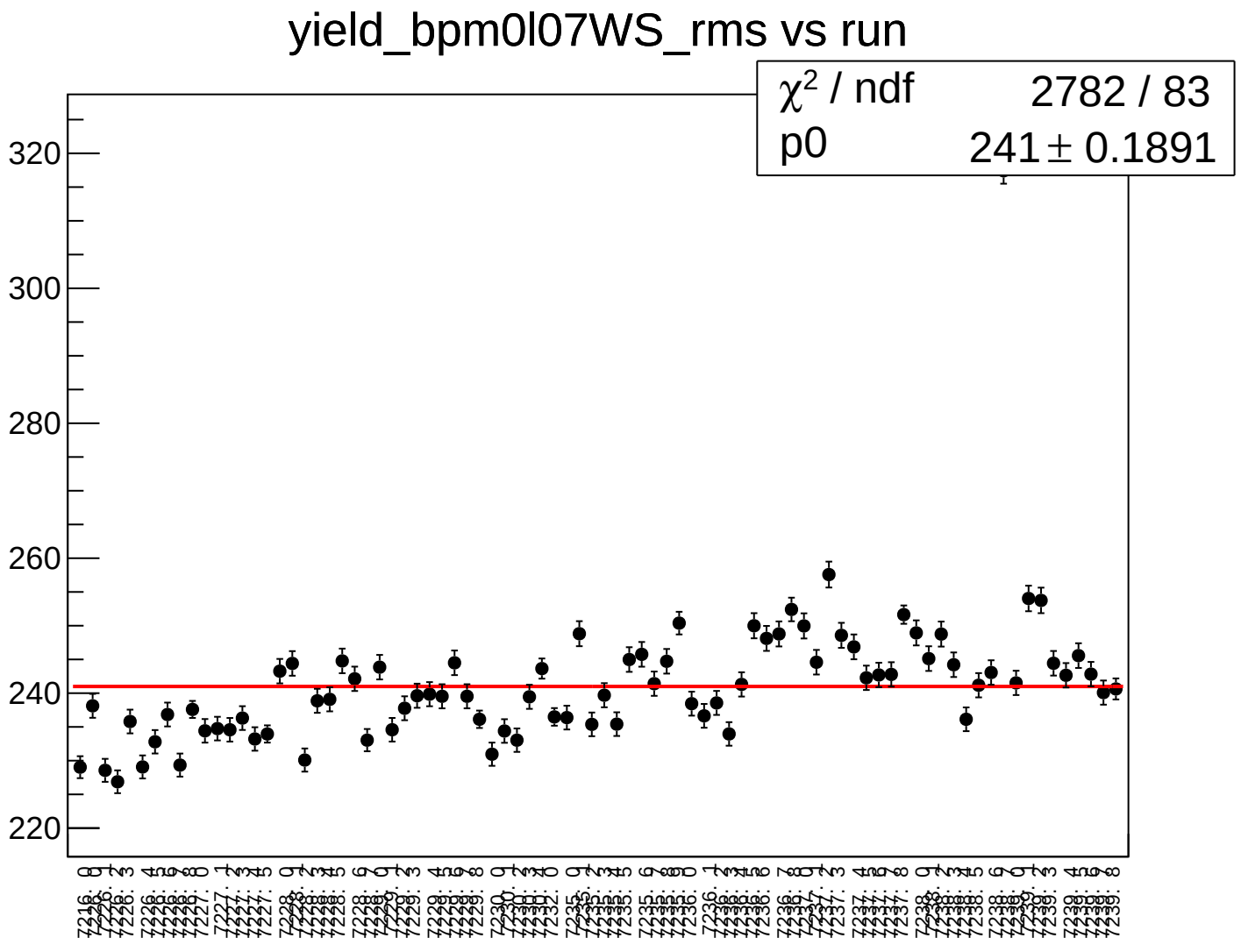

yield_bpm0l06WS_mean vs run
×10^3
χ² / ndf 3.466e+06 / 83
p0 1.294e+05 ± 0.239
129.8
129.6
129.4
129.2
129
128.8
128.6
128.4
pull
Entries 84
Mean 949.4
Std Dev 0
200
100
0
−100
−200
−300
−400
−500

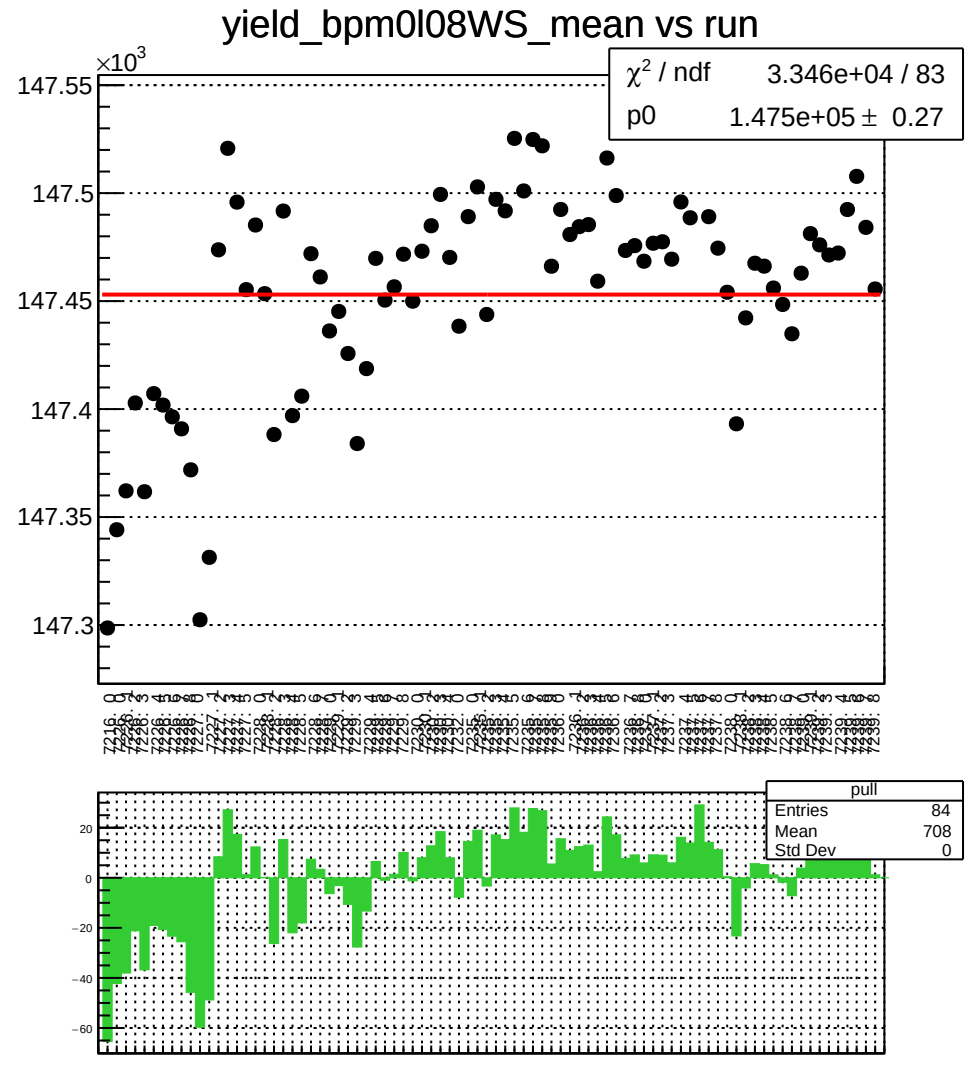

pull1D
Entries 84
Mean −3.525
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

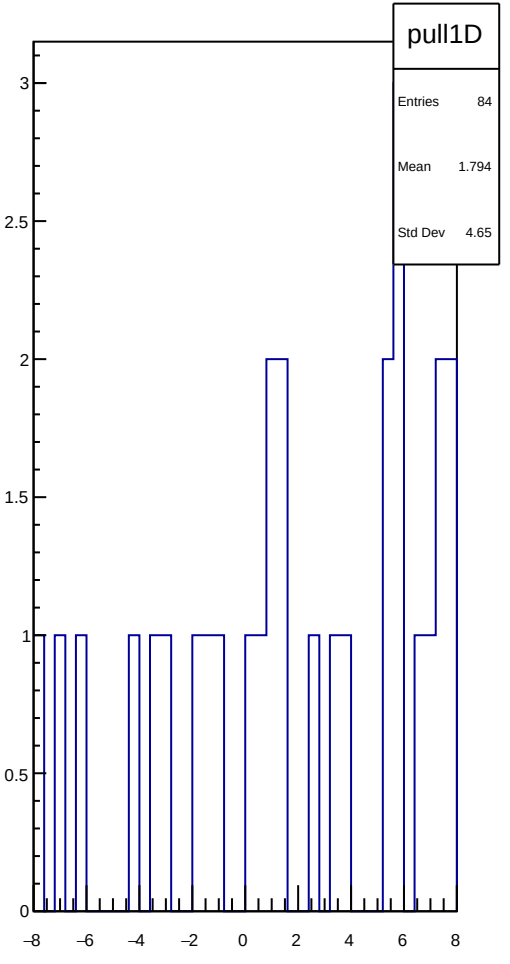

yield_bpm0l06WS_rms vs run
χ² / ndf 2298 / 83
p0 215.4 ± 0.169
250
240
230
220
210
200

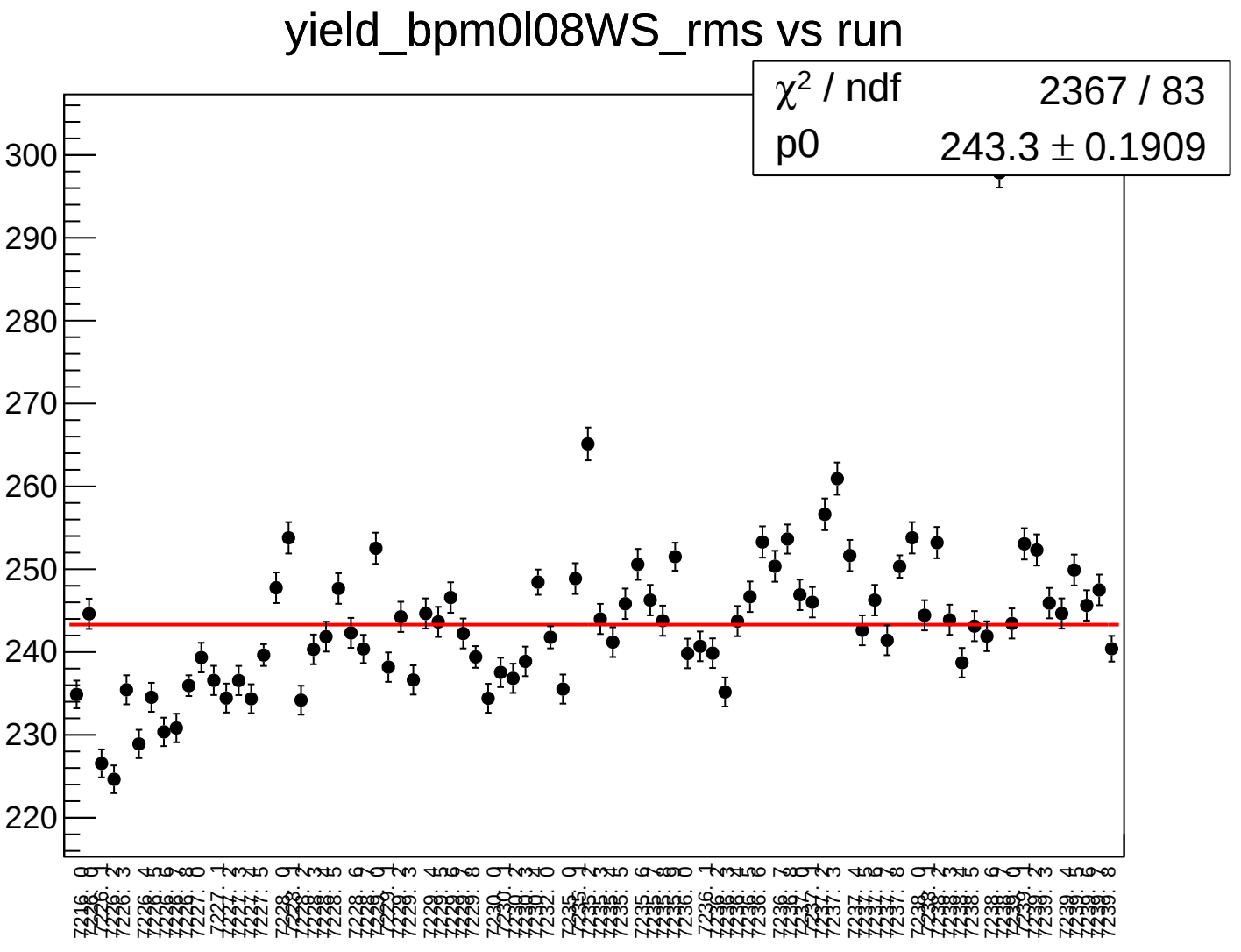

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 3.375e+04 / 83
p0 1.464e+05 ± 0.2675
146.5
146.45
146.4
146.35
146.3
146.25
146.2
146.15
146.1
pull
Entries 84
Mean 1511
Std Dev 0
60
40
20
0
−20
−40
−60
−80
−100

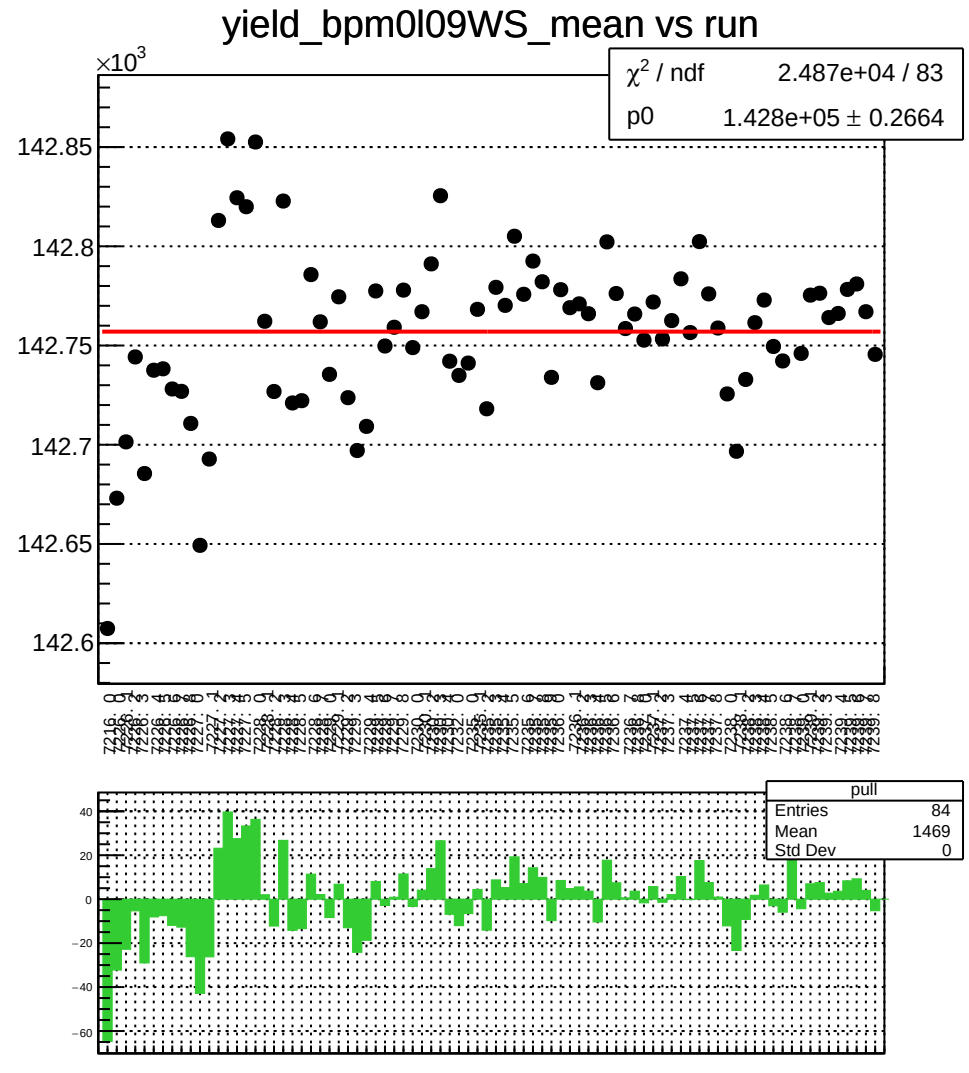

pull1D
Entries 84
Mean −1.254
Std Dev 4.352
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

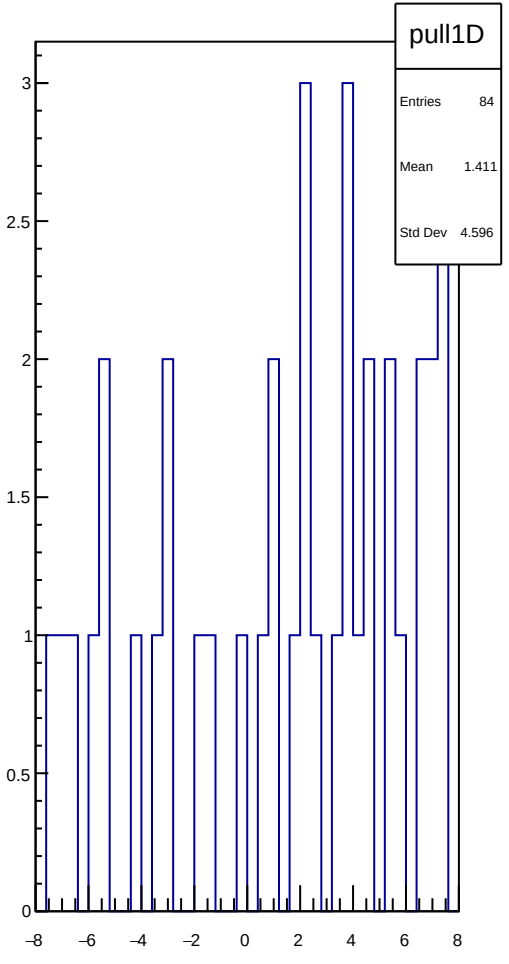

yield_bpm0l07WS_rms vs run
χ² / ndf 2782 / 83
p0 241 ± 0.1891
320
300
280
260
240
220

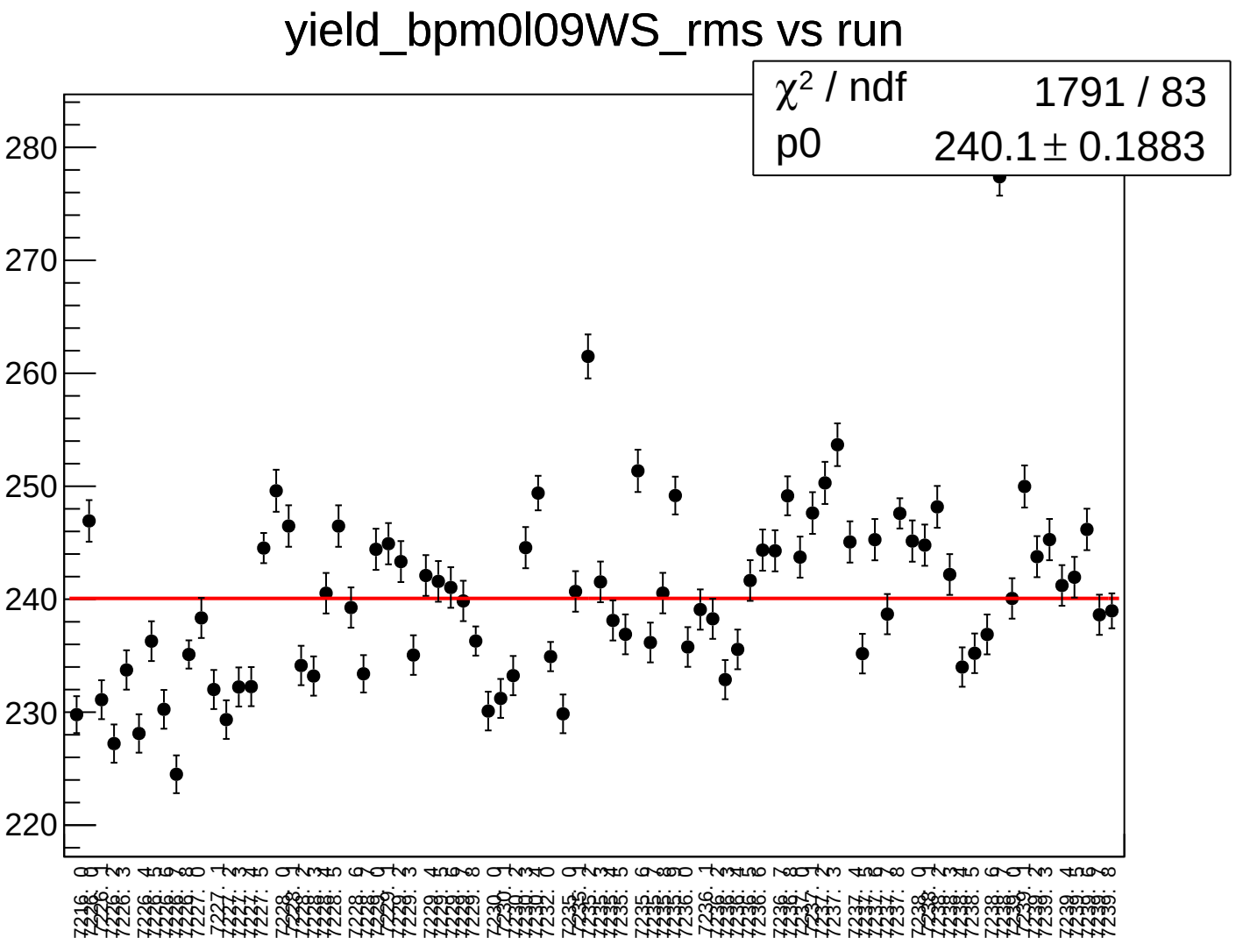

yield_bpm0l08WS_mean vs run
×10^3
147.55
147.5
147.45
147.4
147.35
147.3
χ² / ndf 3.346e+04 / 83
p0 1.475e+05 ± 0.27
pull
Entries 84
Mean 708
Std Dev 0
20
0
−20
−40
−60

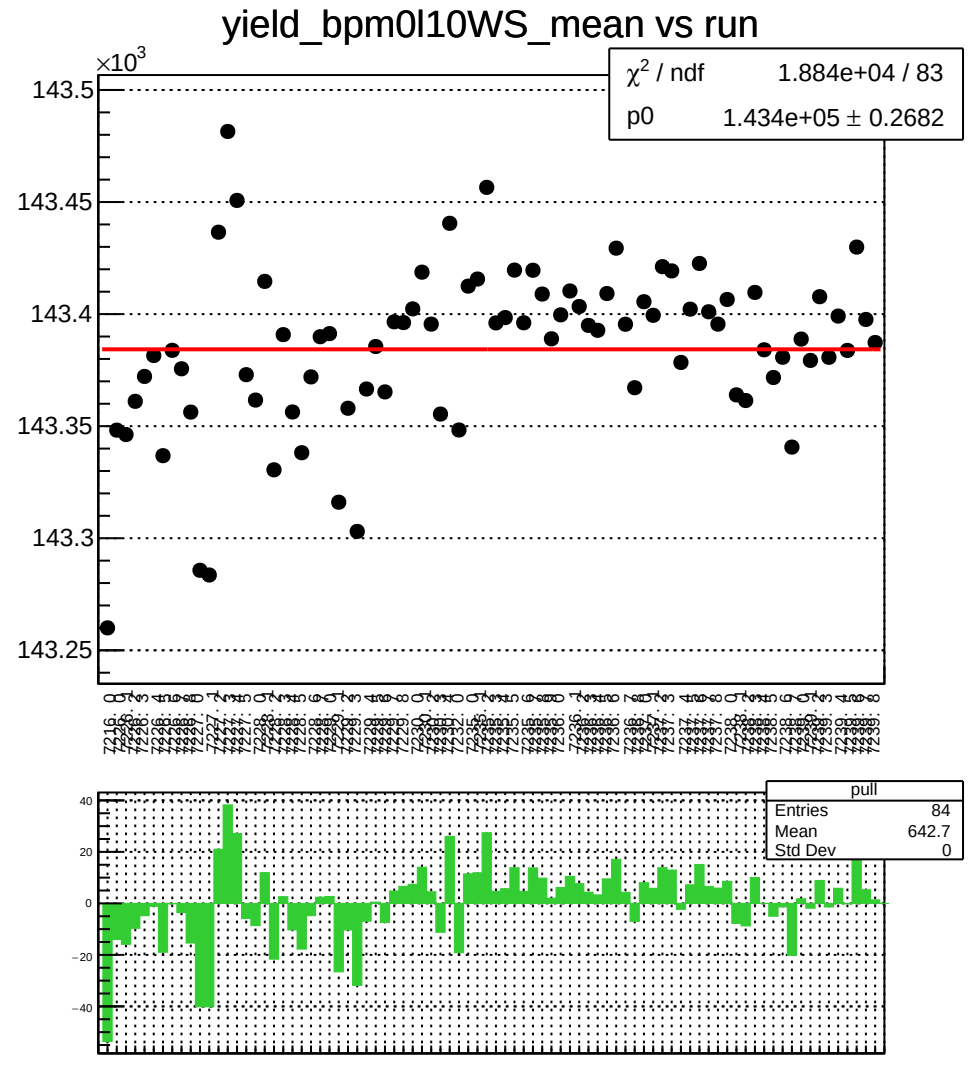

pull1D
Entries 84
Mean 1.794
Std Dev 4.65
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

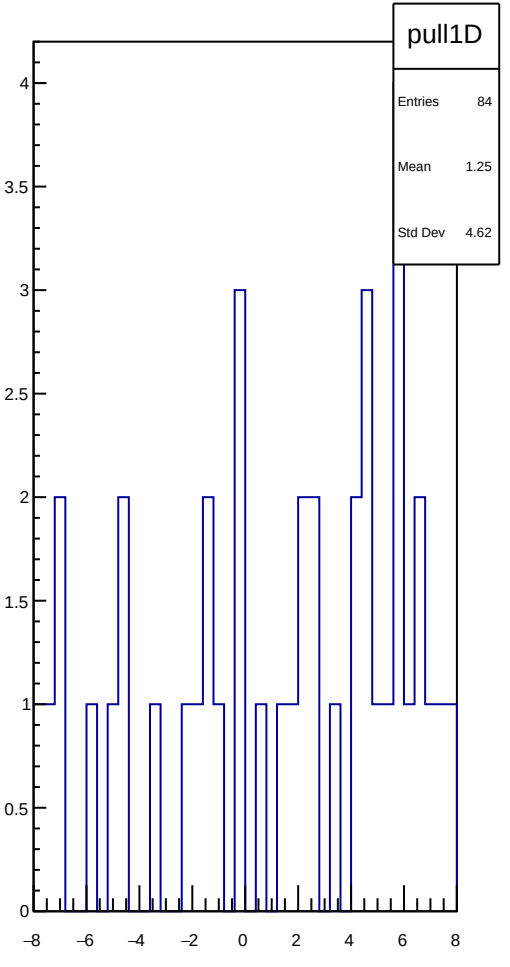

yield_bpm0l08WS_rms vs run
χ² / ndf 2367 / 83
p0 243.3 ± 0.1909
300
290
280
270
260
250
240
230
220

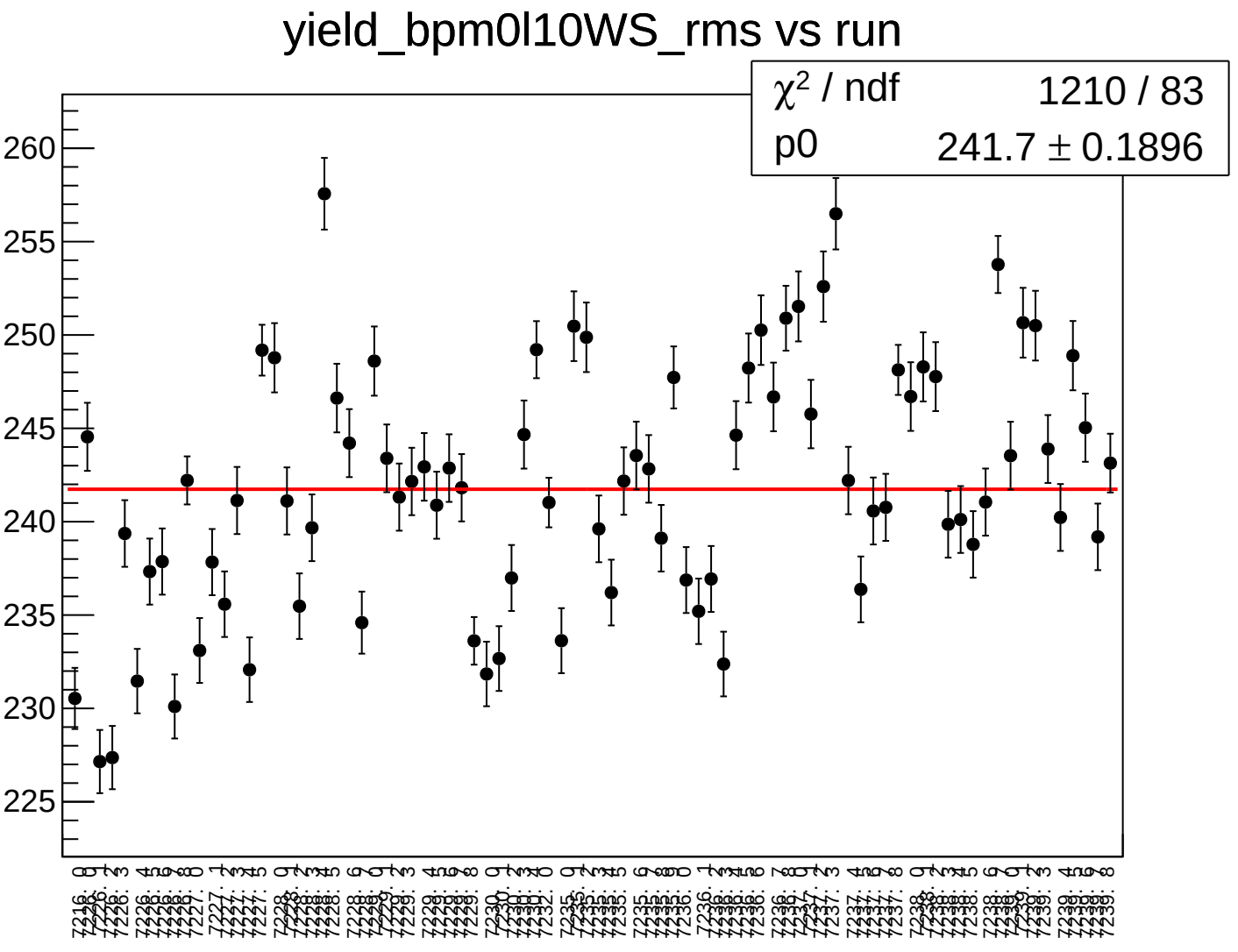

yield_bpm0l09WS_mean vs run
×10^3
χ² / ndf 2.487e+04 / 83
p0 1.428e+05 ± 0.2664
142.85
142.8
142.75
142.7
142.65
142.6
pull
Entries 84
Mean 1469
Std Dev 0
40
20
0
−20
−40
−60

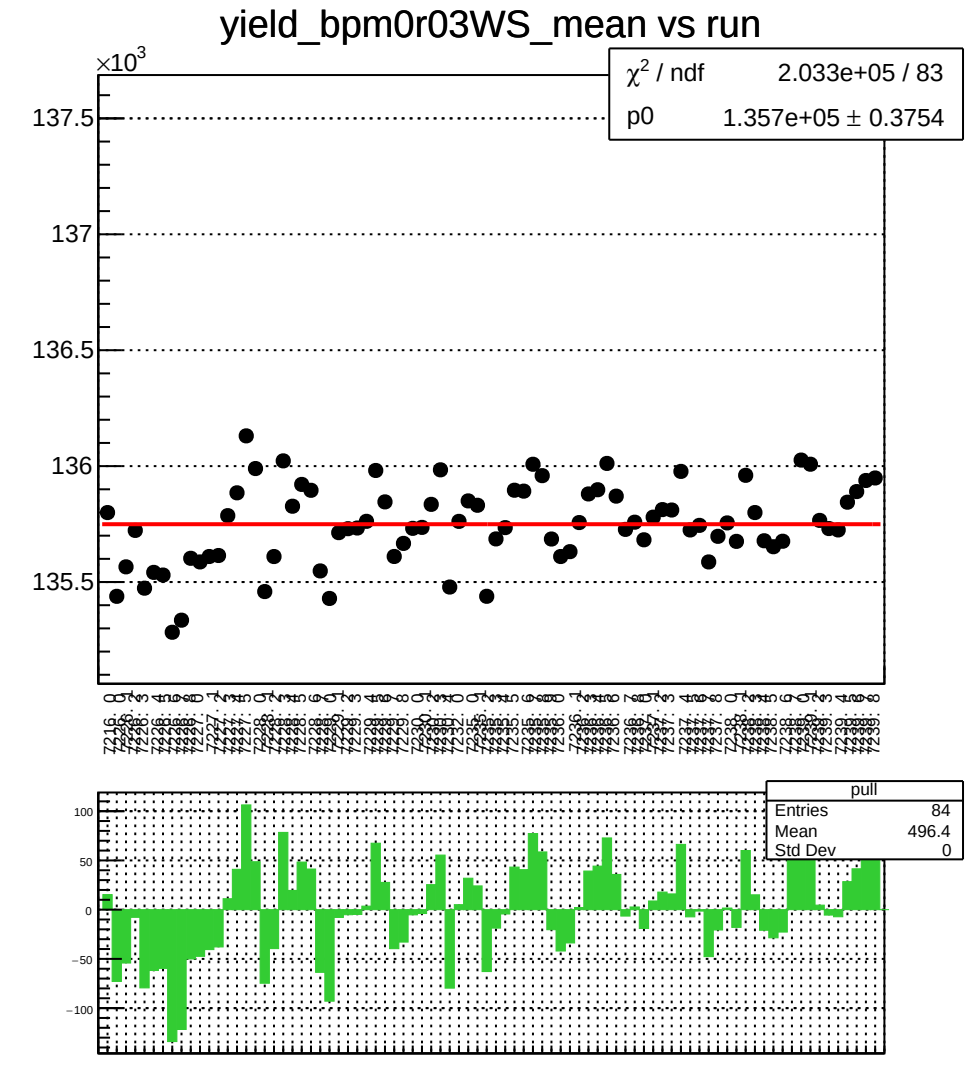

pull1D
Entries 84
Mean 1.411
Std Dev 4.596
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

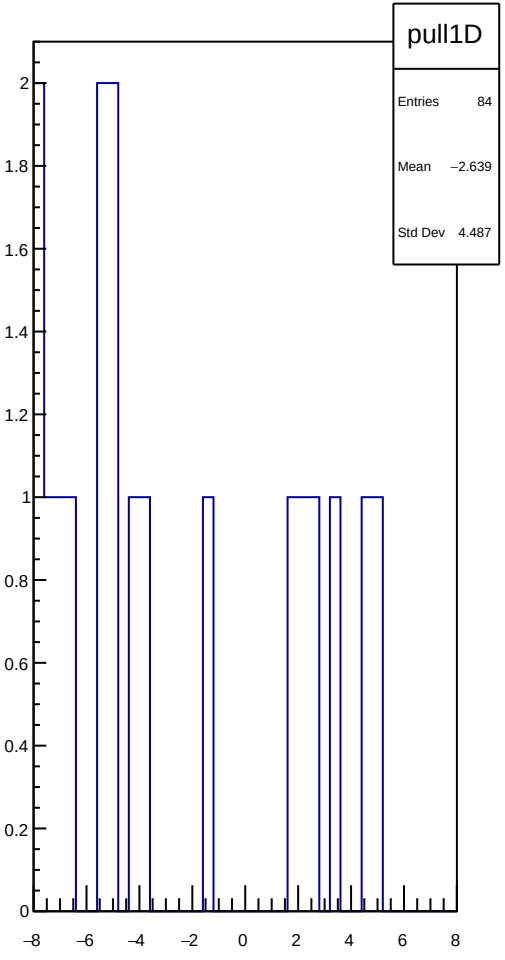

yield_bpm0l09WS_rms vs run
χ² / ndf 1791 / 83
p0 240.1 ± 0.1883
280
270
260
250
240
230
220

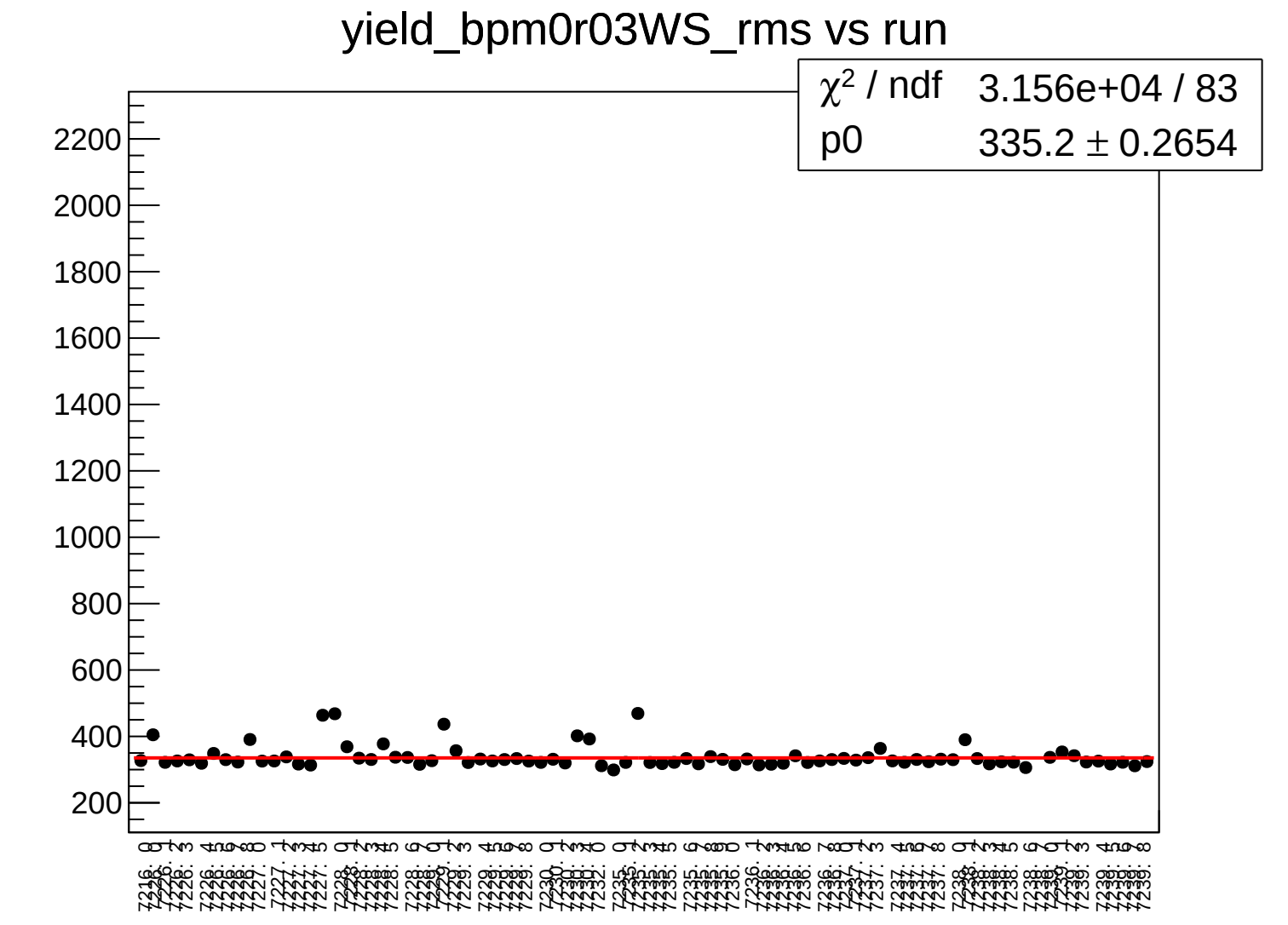

yield_bpm0l10WS_mean vs run
×10^3
143.5
143.45
143.4
143.35
143.3
143.25
χ² / ndf 1.884e+04 / 83
p0 1.434e+05 ± 0.2682
pull
Entries 84
Mean 642.7
Std Dev 0
40
20
0
−20
−40

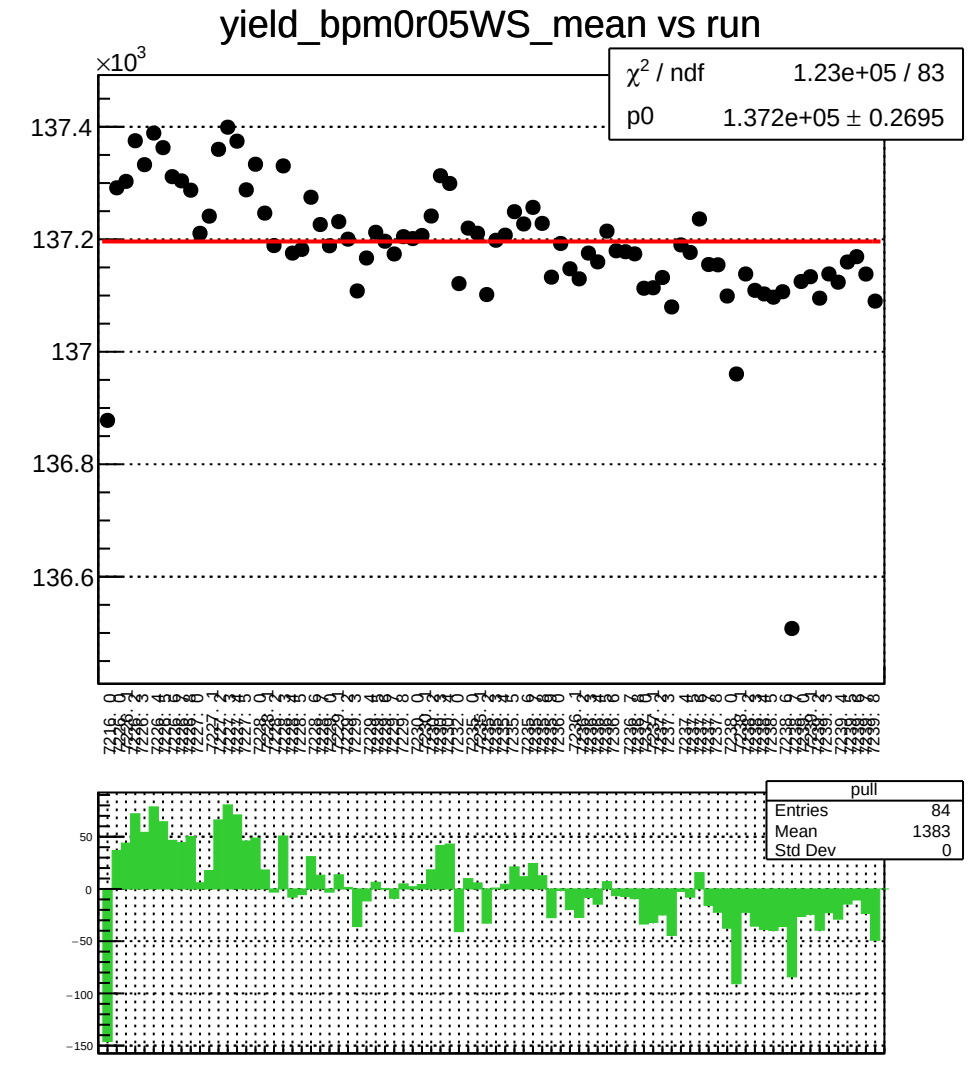

pull1D
Entries 84
Mean 1.25
Std Dev 4.62
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

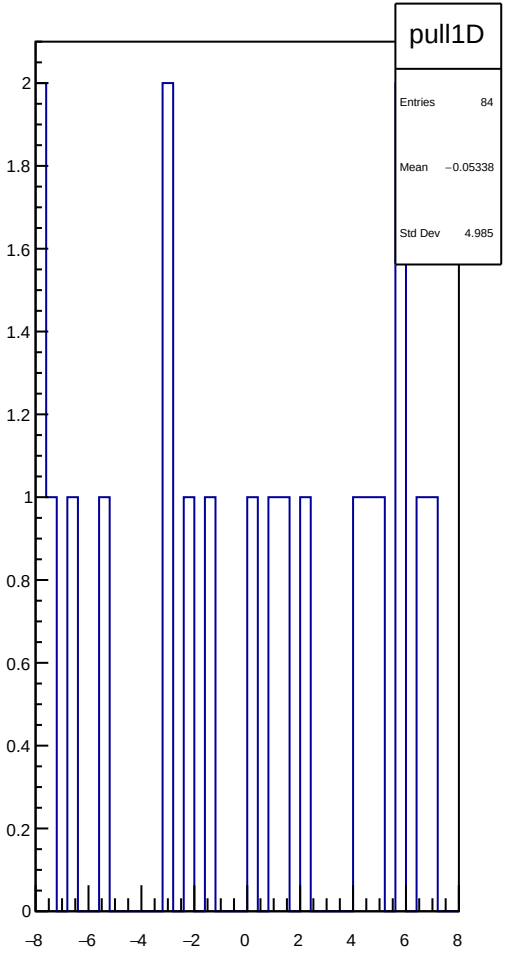

yield_bpm0l10WS_rms vs run
χ² / ndf 1210 / 83
p0 241.7 ± 0.1896
260
255
250
245
240
235
230
225

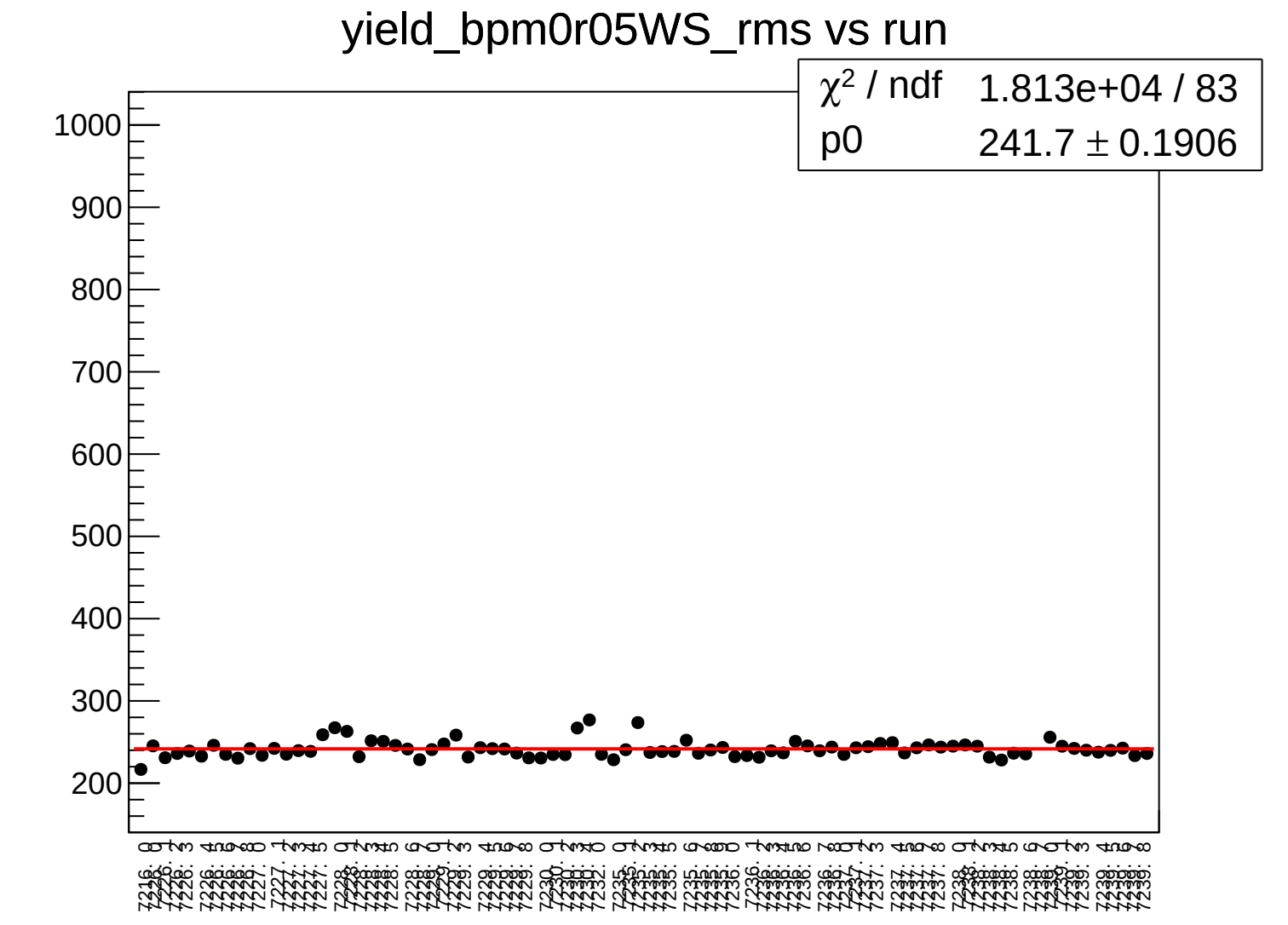

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 2.033e+05 / 83
p0 1.357e+05 ± 0.3754
137.5
137
136.5
136
135.5
pull
Entries 84
Mean 496.4
Std Dev 0
100
50
0
−50
−100

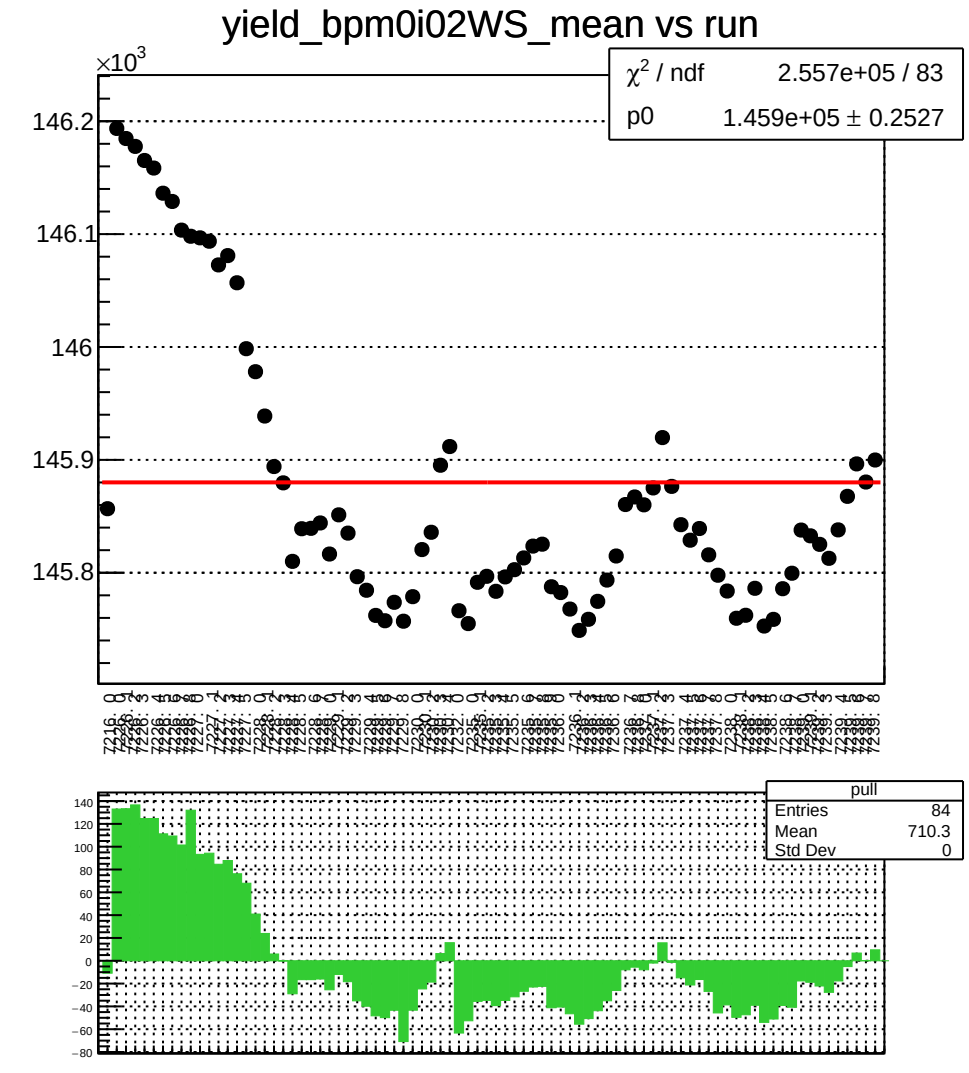

pull1D
Entries 84
Mean −2.639
Std Dev 4.487
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

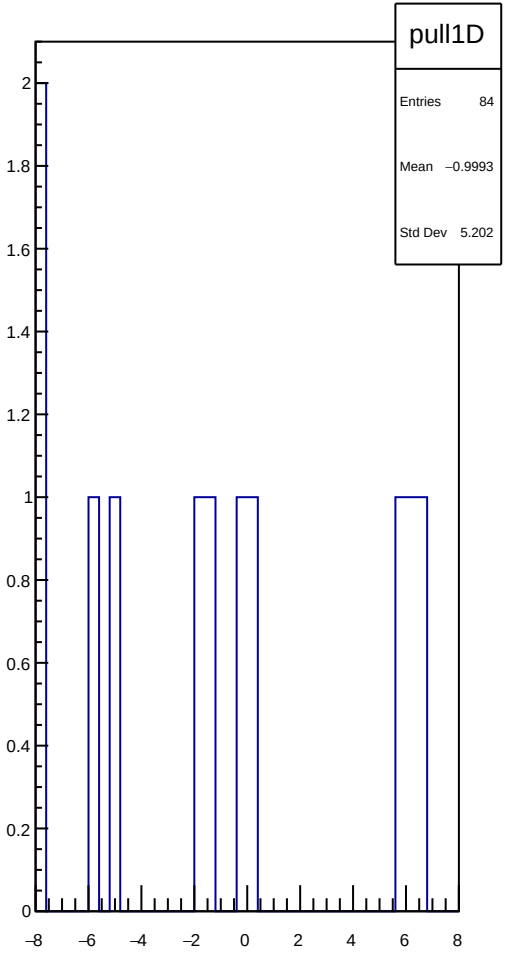

yield_bpm0r03WS_rms vs run
χ^2 / ndf 3.156e+04 / 83
p0 335.2 ± 0.2654
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

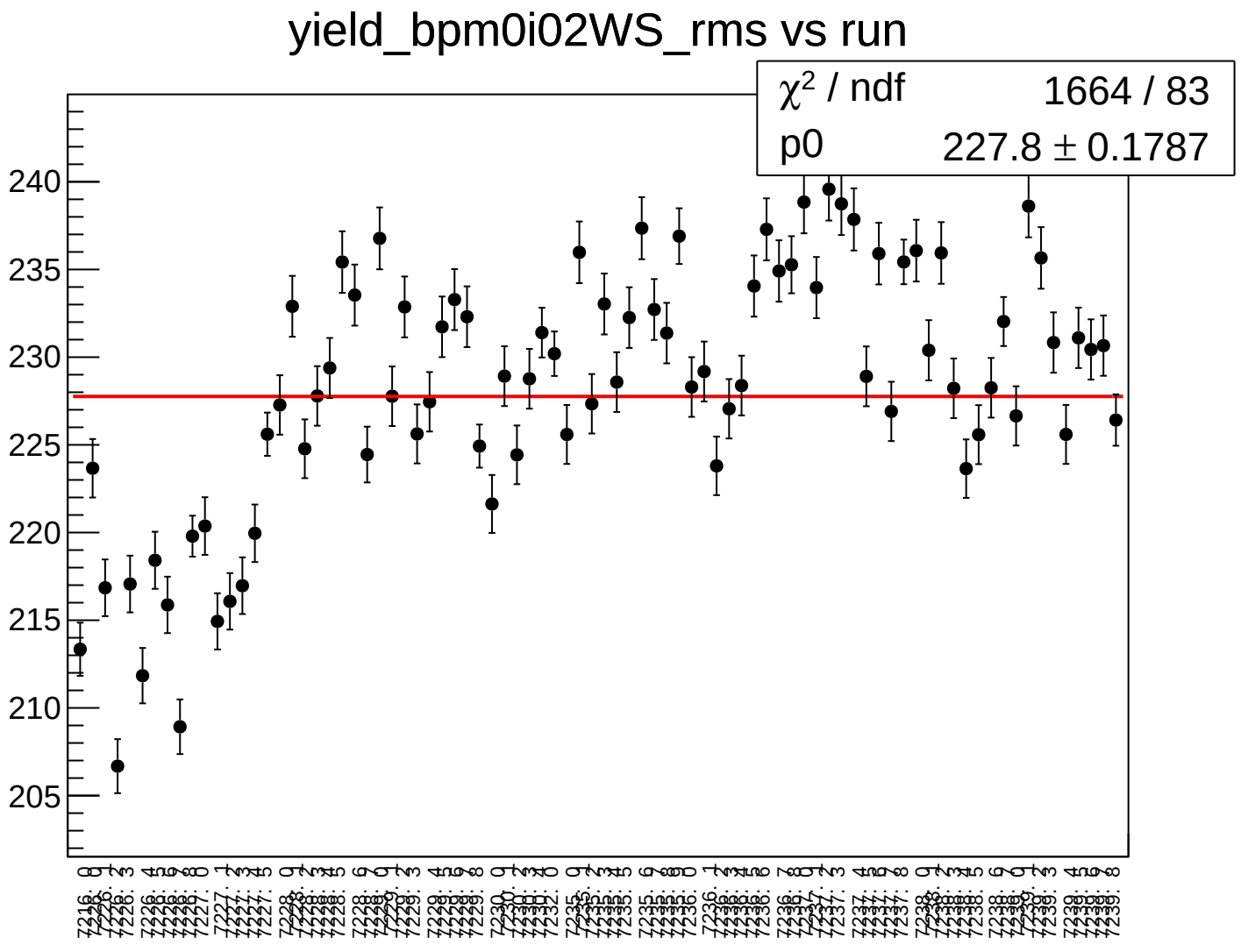

yield_bpm0r05WS_mean vs run
×10^3
χ² / ndf 1.23e+05 / 83
p0 1.372e+05 ± 0.2695
137.4
137.2
137
136.8
136.6
pull
Entries 84
Mean 1383
Std Dev 0
50
0
−50
−100
−150

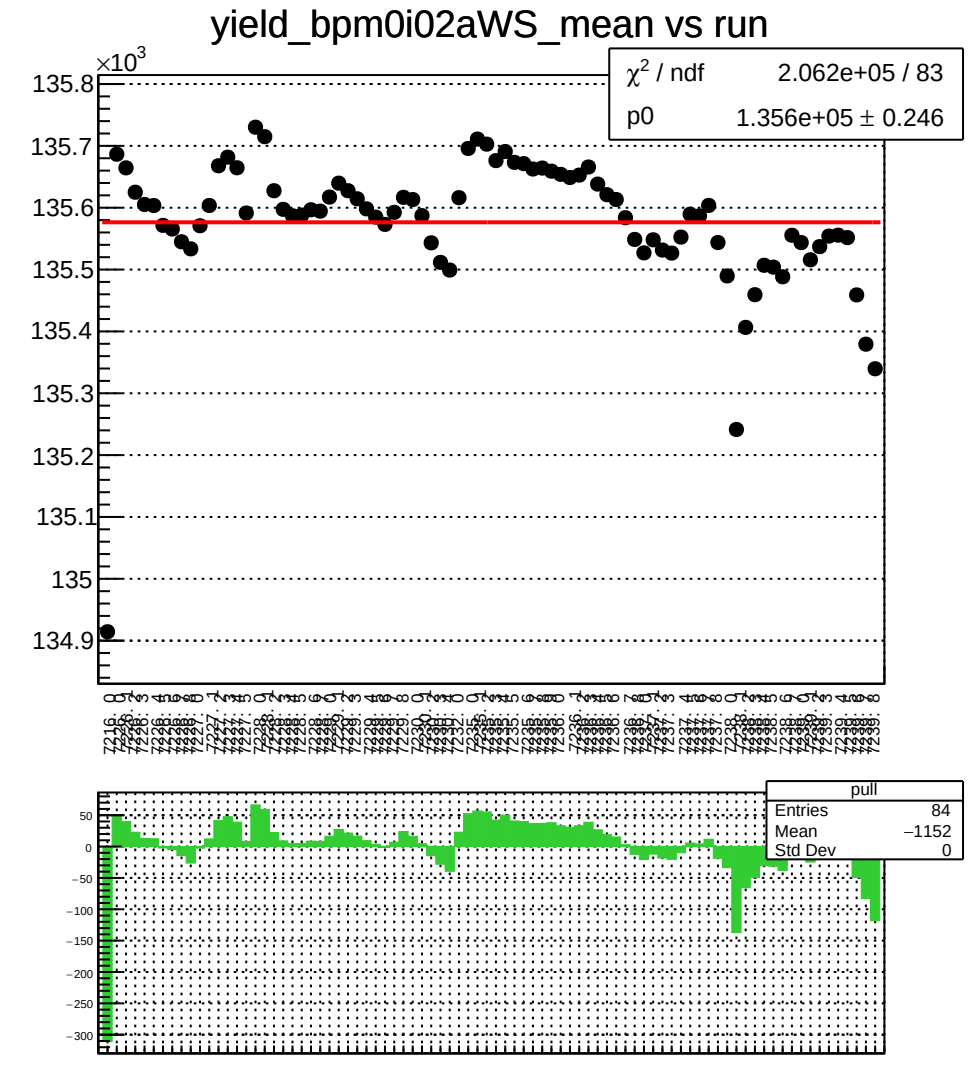

pull1D
Entries 84
Mean −0.05338
Std Dev 4.985
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

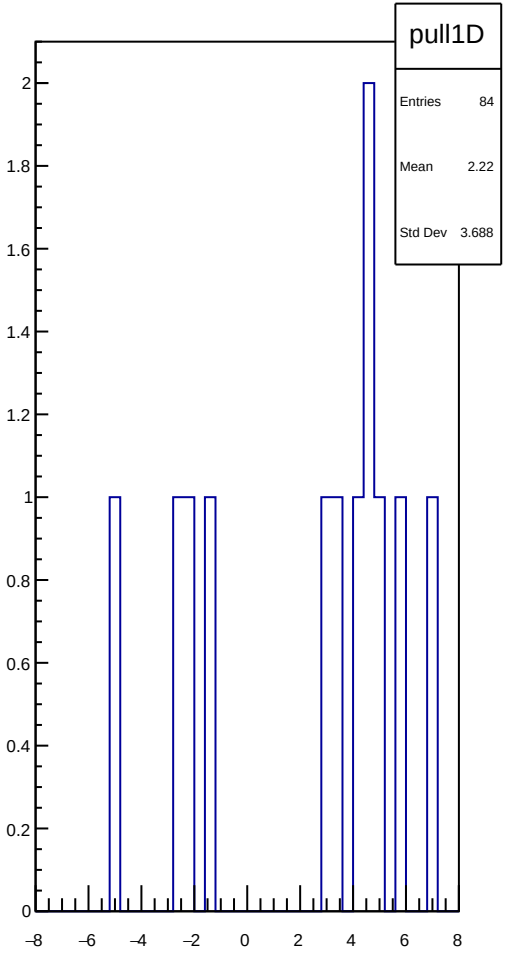

yield_bpm0r05WS_rms vs run
χ² / ndf 1.813e+04 / 83
p0 241.7 ± 0.1906
1000
900
800
700
600
500
400
300
200

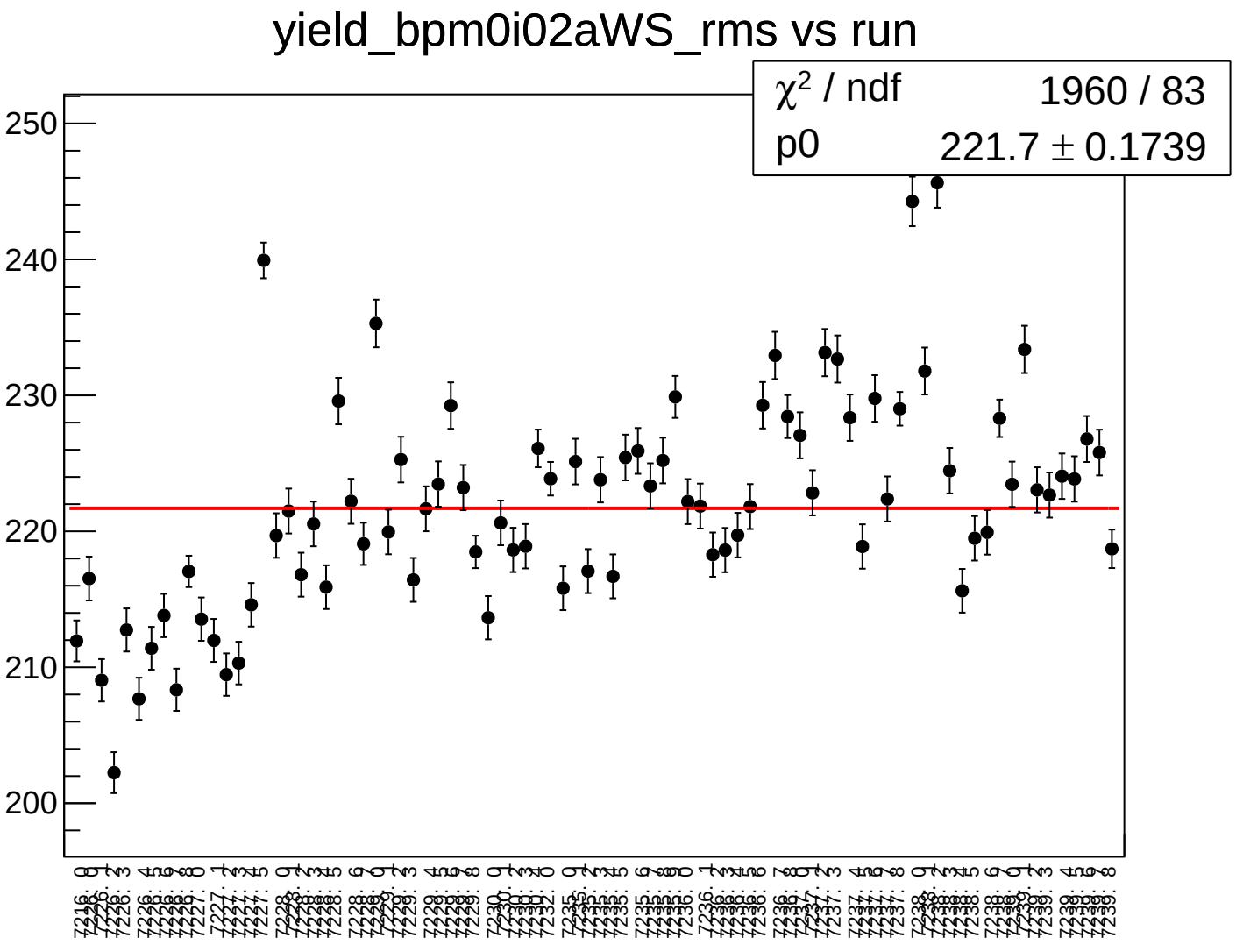

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 2.557e+05 / 83
p0 1.459e+05 ± 0.2527
146.2
146.1
146
145.9
145.8
pull
Entries 84
Mean 710.3
Std Dev 0
140
120
100
80
60
40
20
0
−20
−40
−60
−80

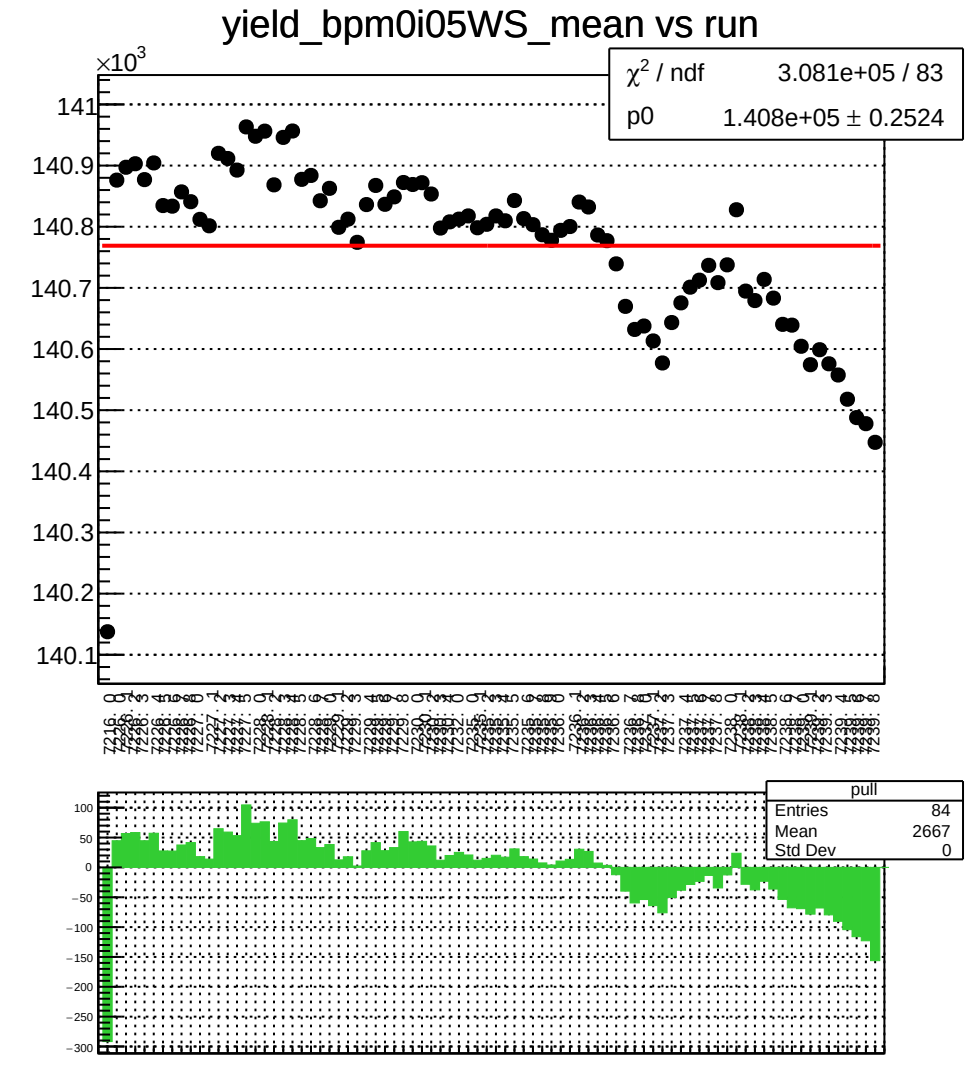

pull1D
Entries 84
Mean −0.9993
Std Dev 5.202
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

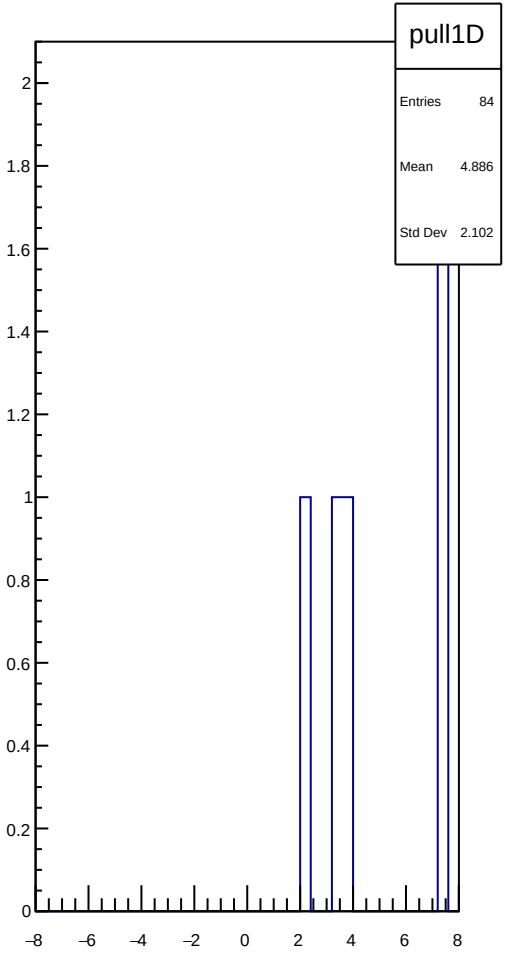

yield_bpm0i02WS_rms vs run
χ² / ndf 1664 / 83
p0 227.8 ± 0.1787
240
235
230
225
220
215
210
205

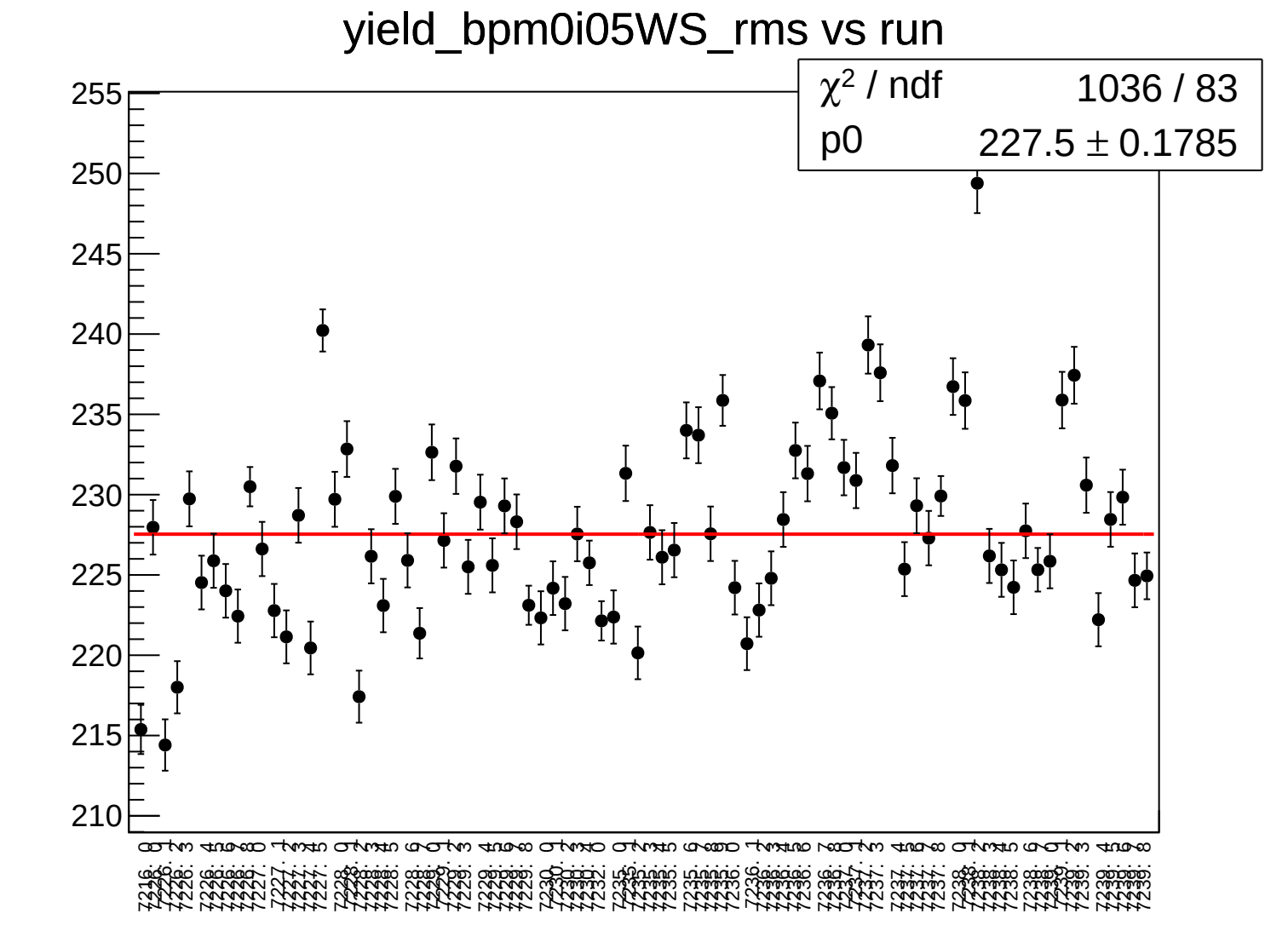

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 2.062e+05 / 83
p0 1.356e+05 ± 0.246
135.8
135.7
135.6
135.5
135.4
135.3
135.2
135.1
135
134.9
pull
Entries 84
Mean −1152
Std Dev 0
50
0
−50
−100
−150
−200
−250
−300

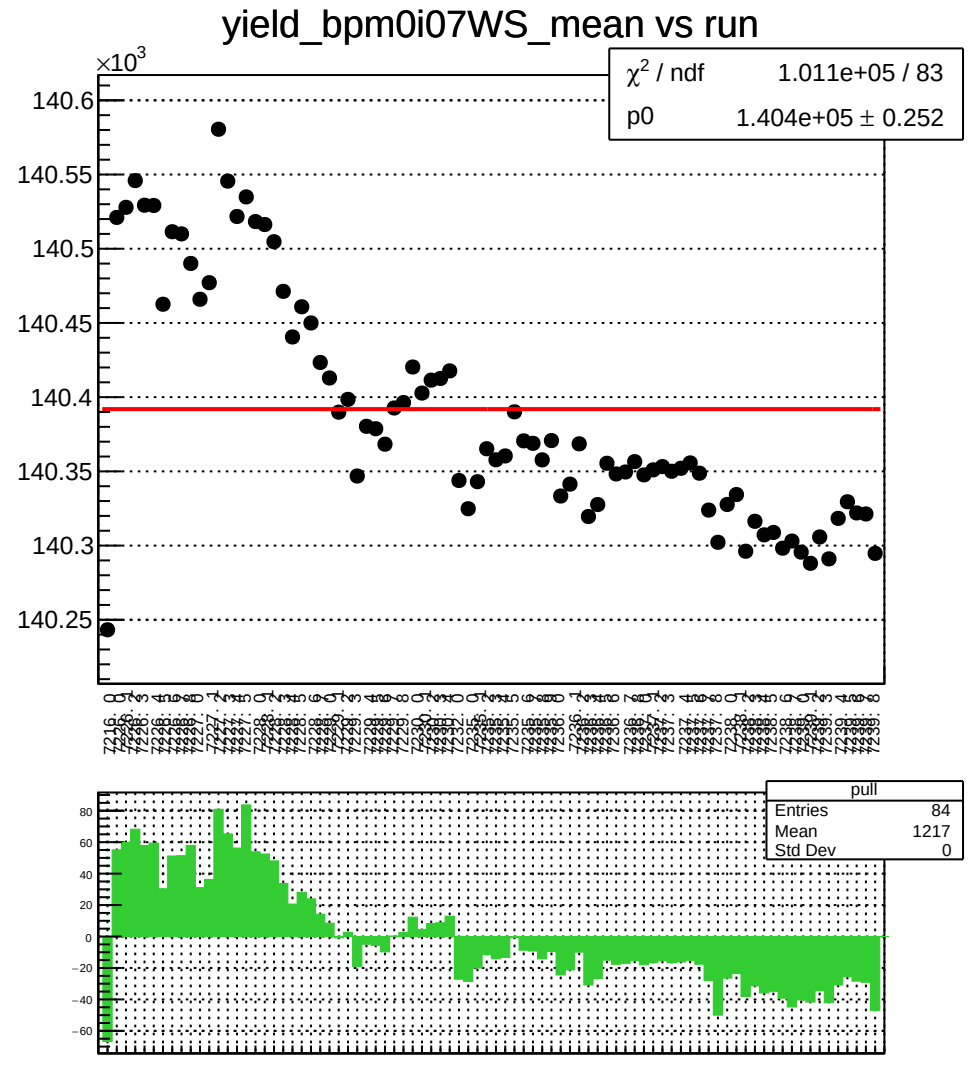

pull1D
Entries 84
Mean 2.22
Std Dev 3.688
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

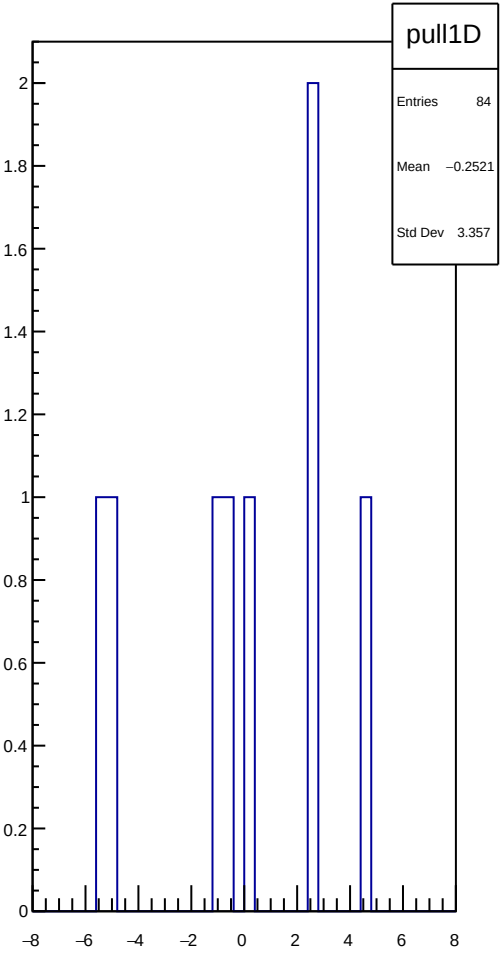

yield_bpm0i02aWS_rms vs run
χ² / ndf 1960 / 83
p0 221.7 ± 0.1739
250
240
230
220
210
200

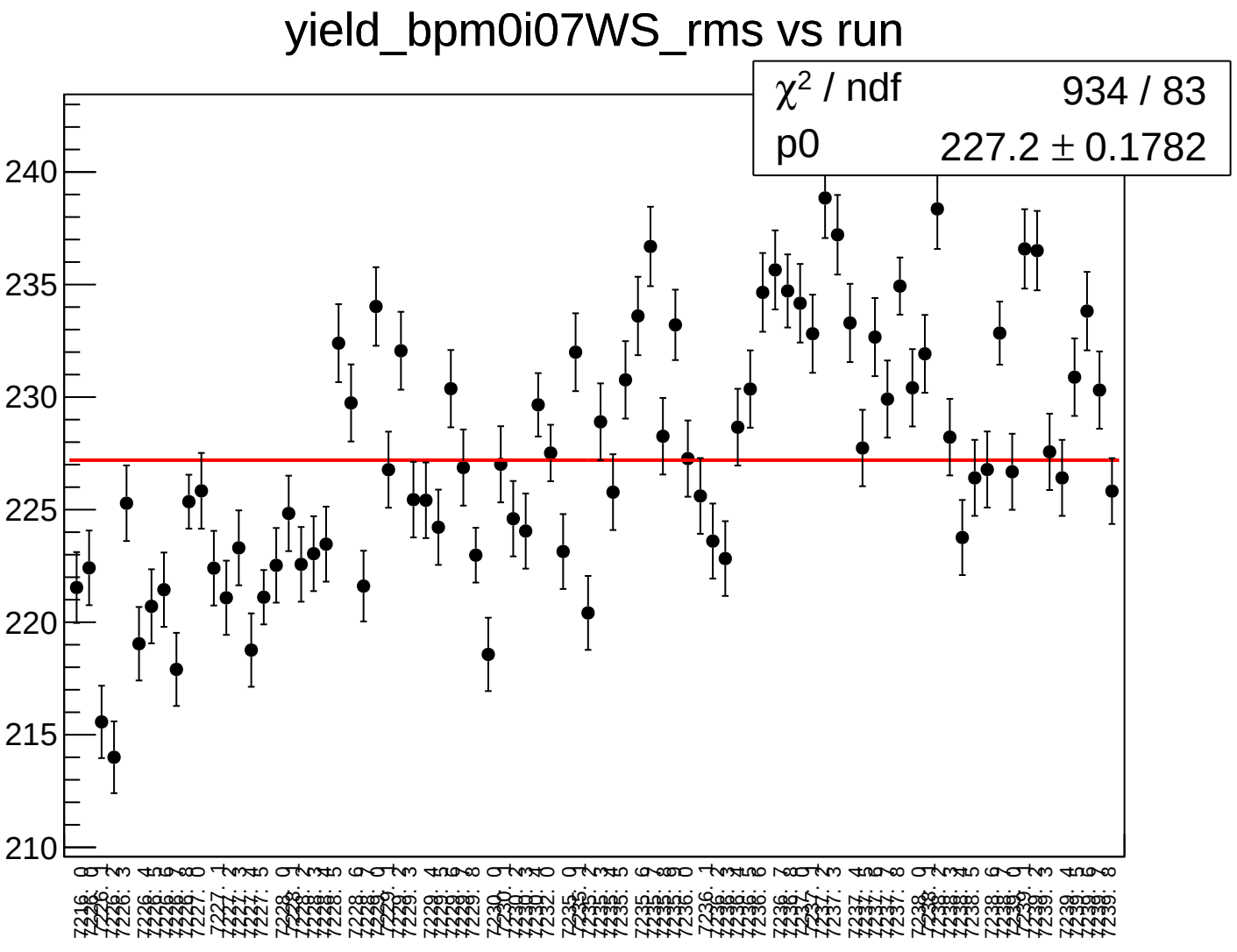

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 3.081e+05 / 83
p0 1.408e+05 ± 0.2524
141
140.9
140.8
140.7
140.6
140.5
140.4
140.3
140.2
140.1
pull
Entries 84
Mean 2667
Std Dev 0
100
50
0
−50
−100
−150
−200
−250
−300

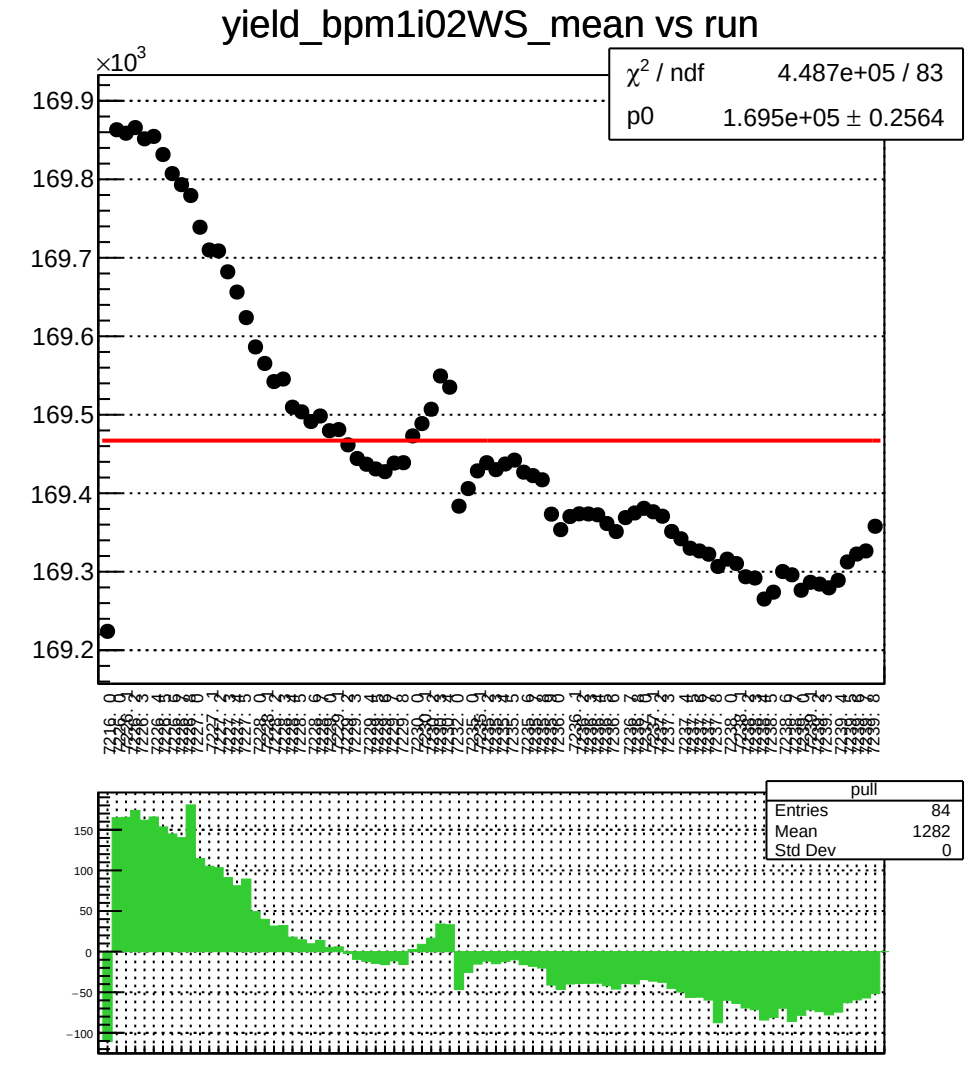

pull1D
Entries 84
Mean 4.886
Std Dev 2.102
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

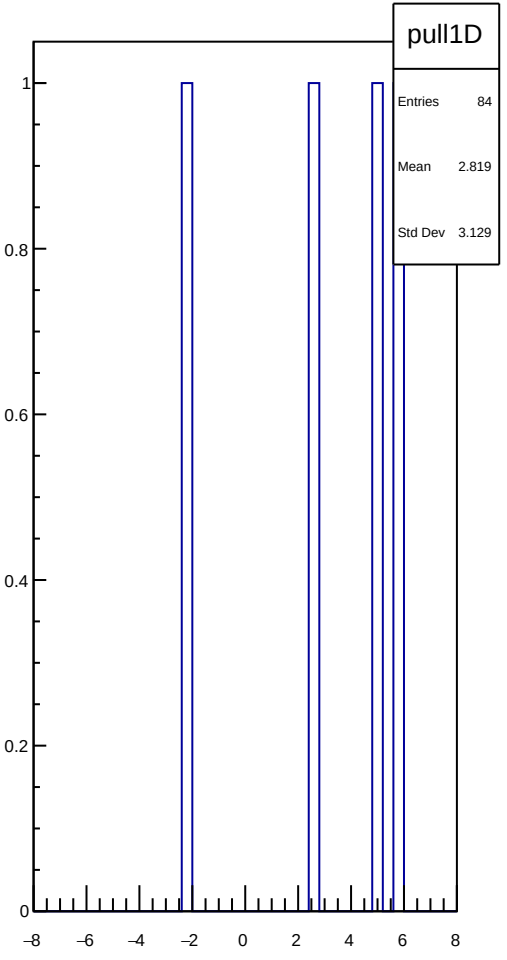

yield_bpm0i05WS_rms vs run
χ² / ndf 1036 / 83
p0 227.5 ± 0.1785
255
250
245
240
235
230
225
220
215
210

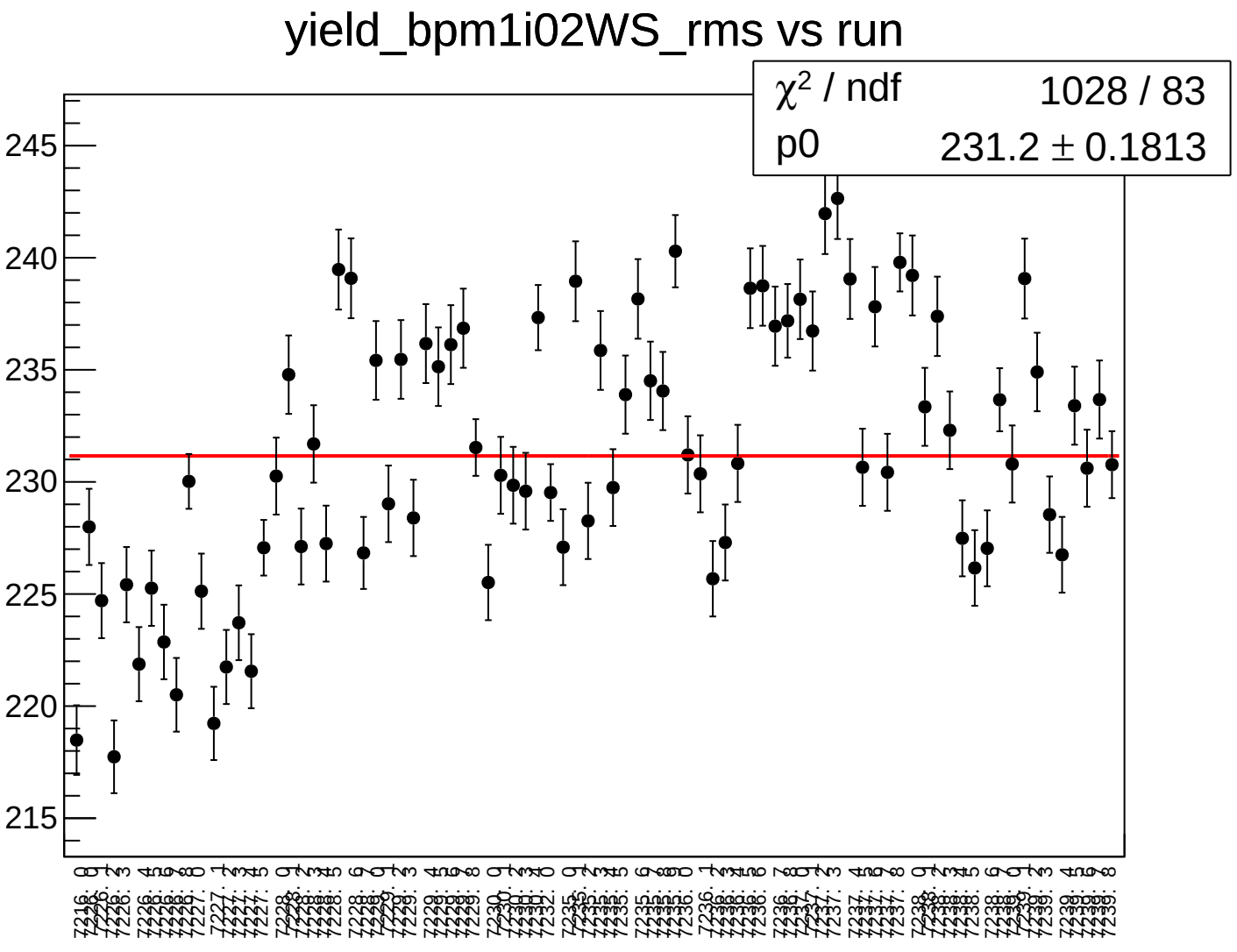

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 1.011e+05 / 83
p0 1.404e+05 ± 0.252
140.6
140.55
140.5
140.45
140.4
140.35
140.3
140.25
pull
Entries 84
Mean 1217
Std Dev 0
80
60
40
20
0
−20
−40
−60

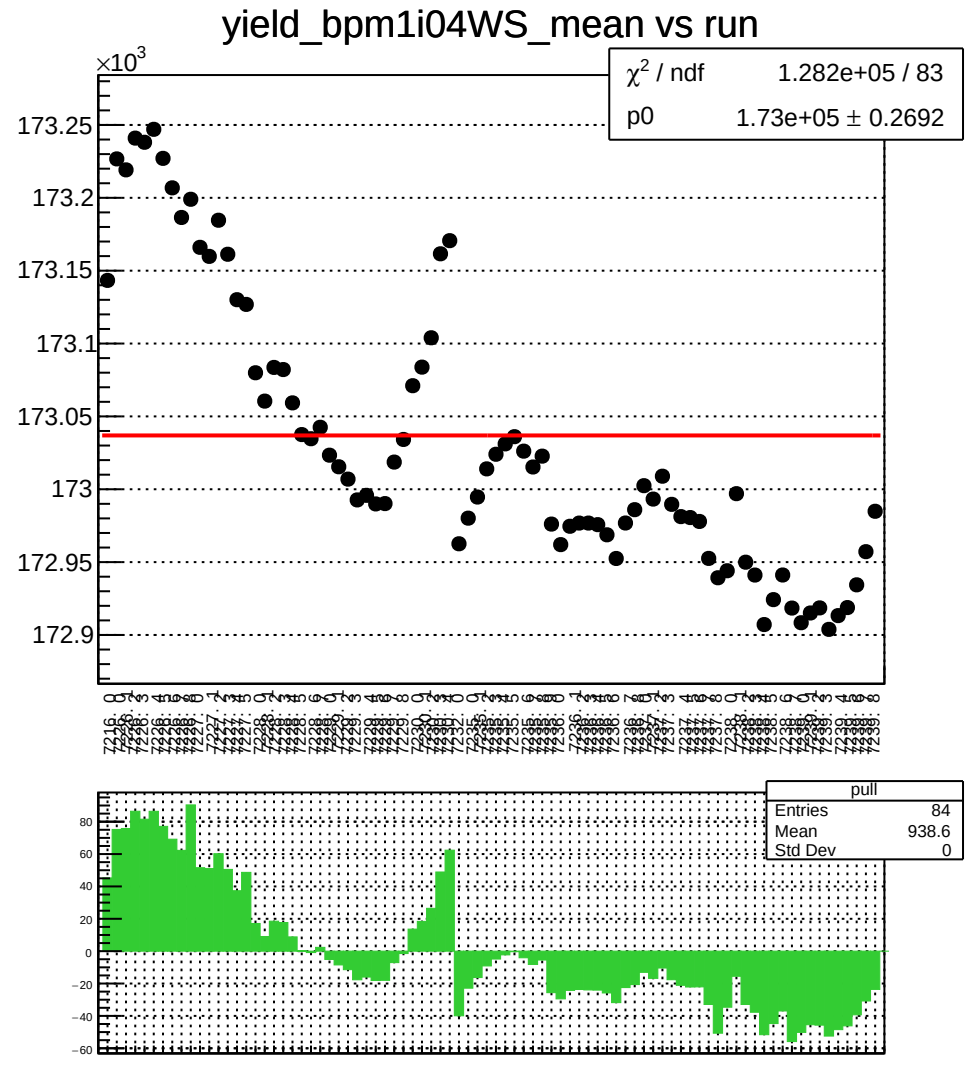

pull1D
Entries 84
Mean −0.2521
Std Dev 3.357
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

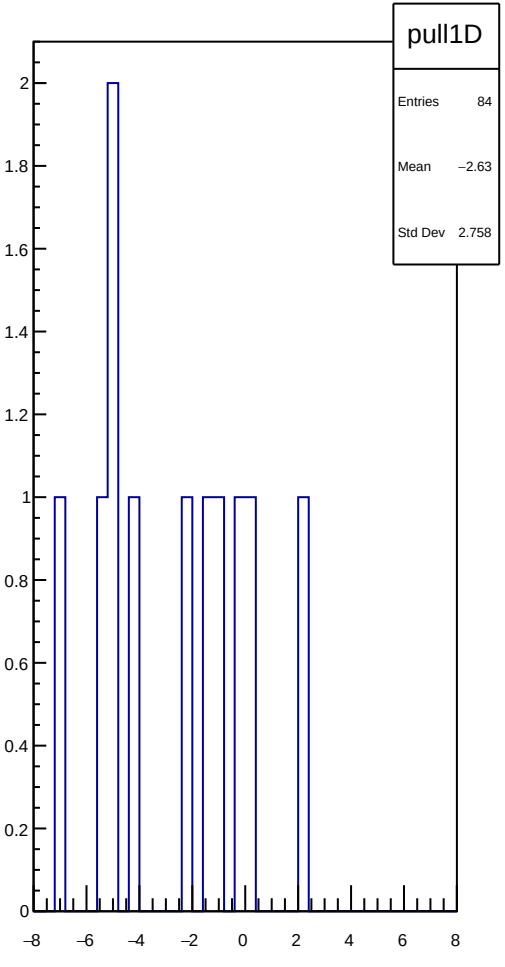

yield_bpm0i07WS_rms vs run
χ^2 / ndf 934 / 83
p0 227.2 ± 0.1782
240
235
230
225
220
215
210

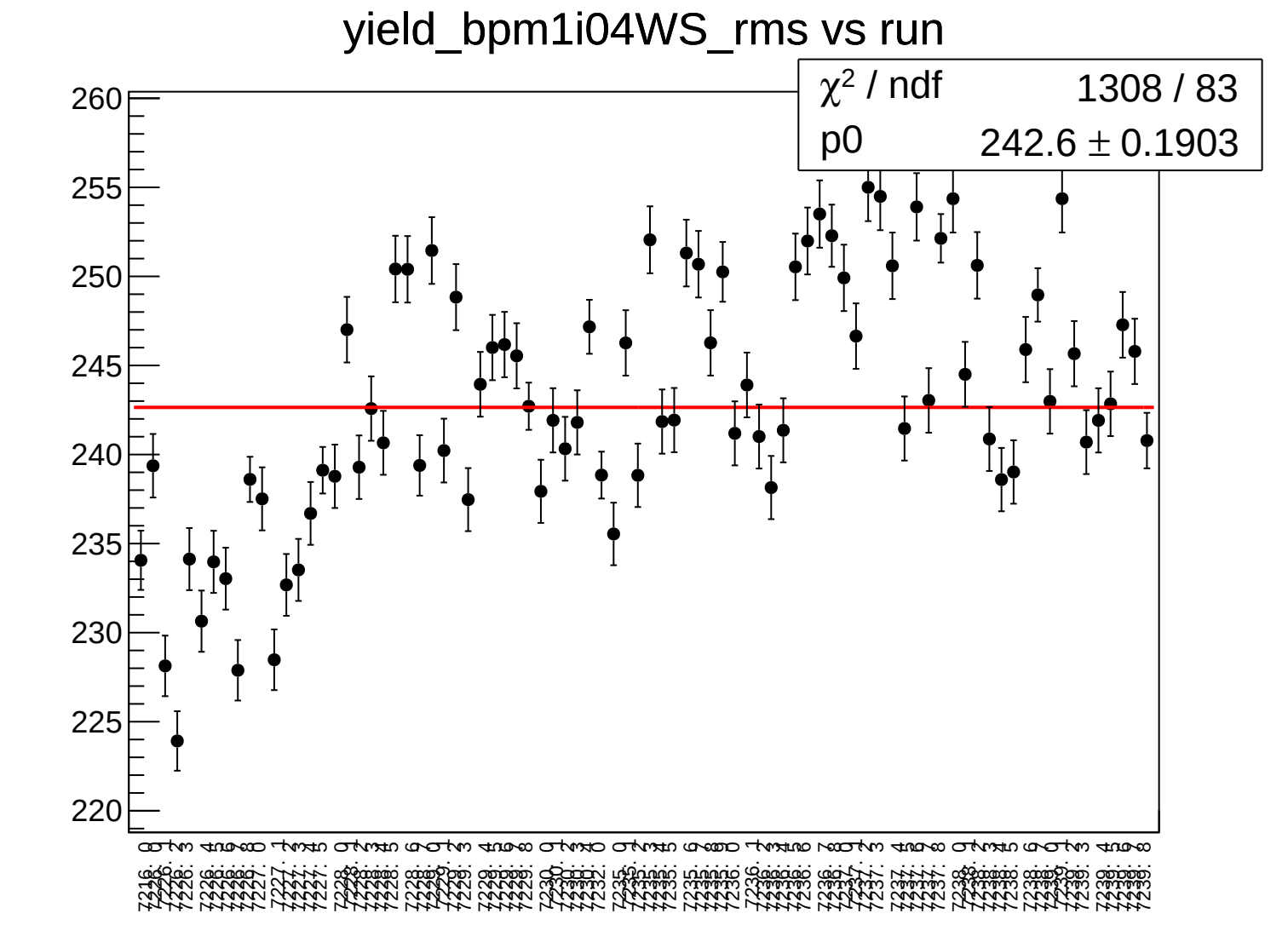

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 4.487e+05 / 83
p0 1.695e+05 ± 0.2564
169.9
169.8
169.7
169.6
169.5
169.4
169.3
169.2
pull
Entries 84
Mean 1282
Std Dev 0
150
100
50
0
−50
−100

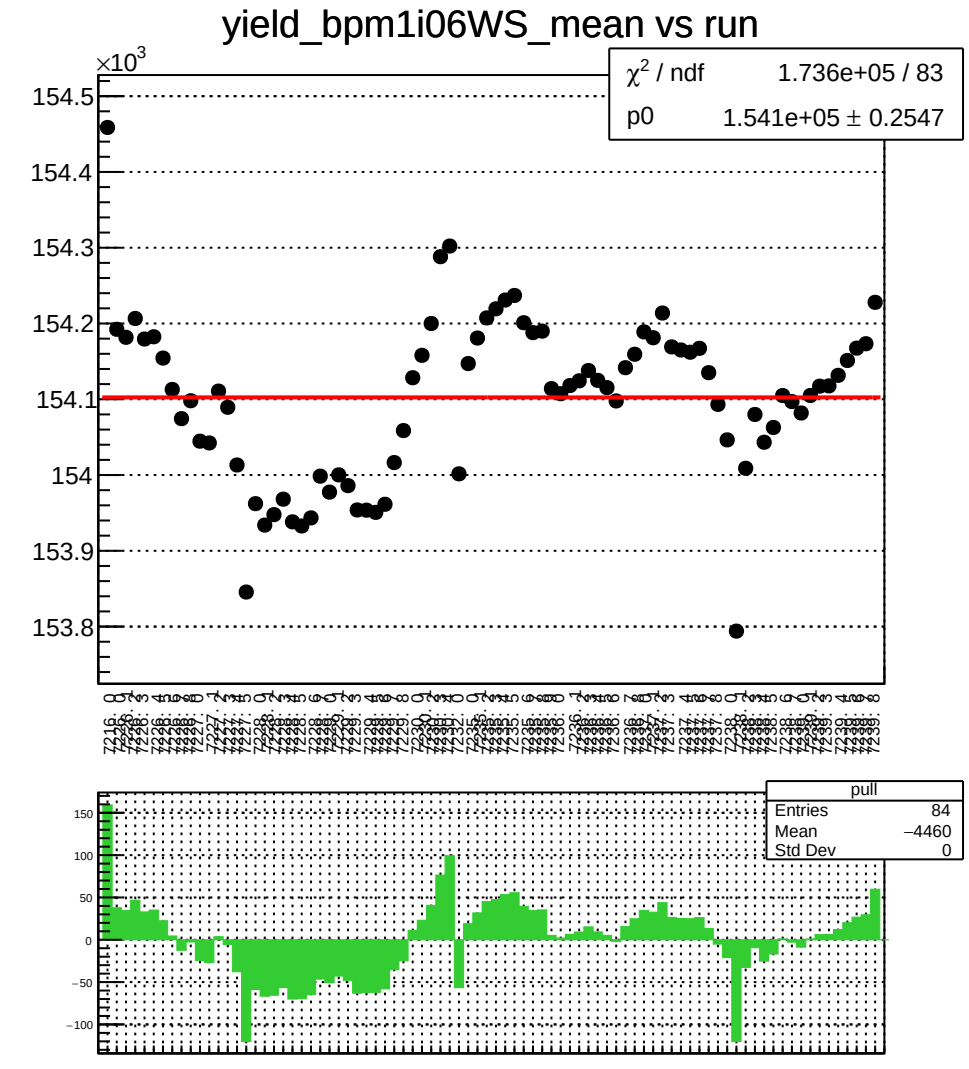

pull1D
Entries 84
Mean 2.819
Std Dev 3.129
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

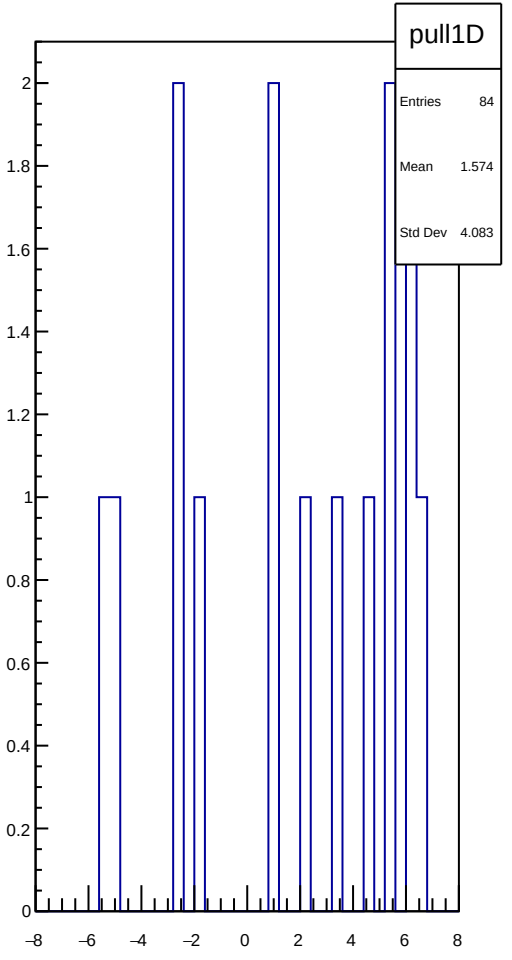

yield_bpm1i02WS_rms vs run
χ² / ndf 1028 / 83
p0 231.2 ± 0.1813
245
240
235
230
225
220
215

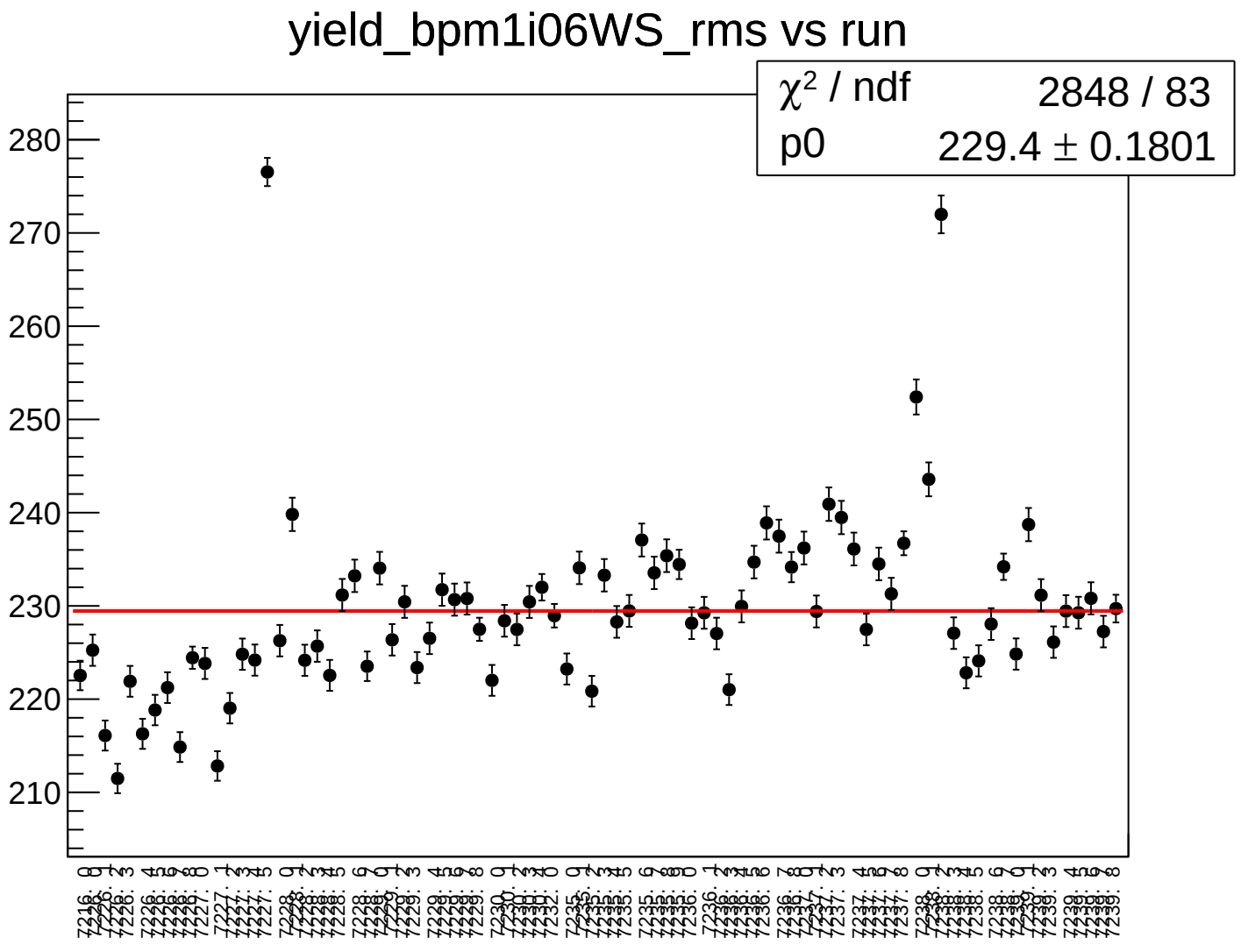

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 1.282e+05 / 83
p0 1.73e+05 ± 0.2692
173.25
173.2
173.15
173.1
173.05
173
172.95
172.9
pull
Entries 84
Mean 938.6
Std Dev 0
80
60
40
20
0
−20
−40
−60

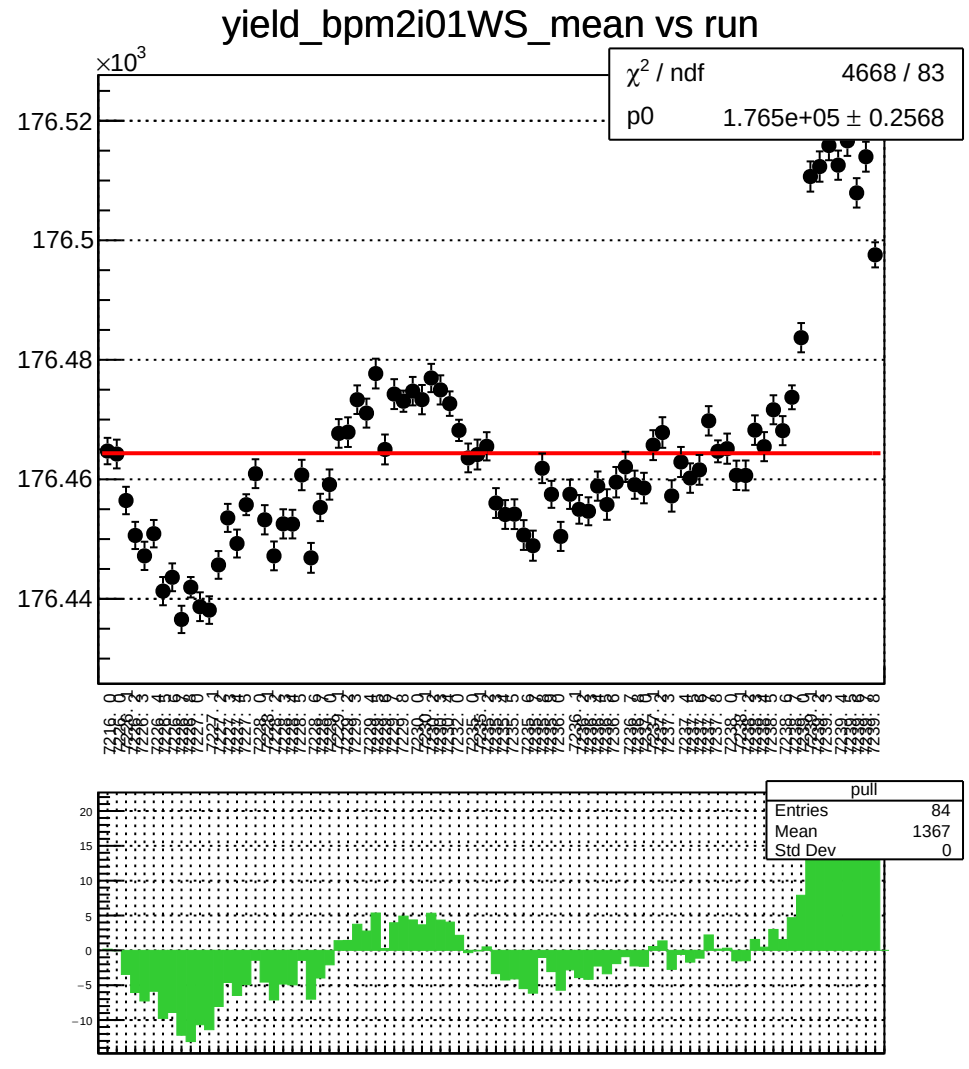

pull1D
Entries 84
Mean −2.63
Std Dev 2.758
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

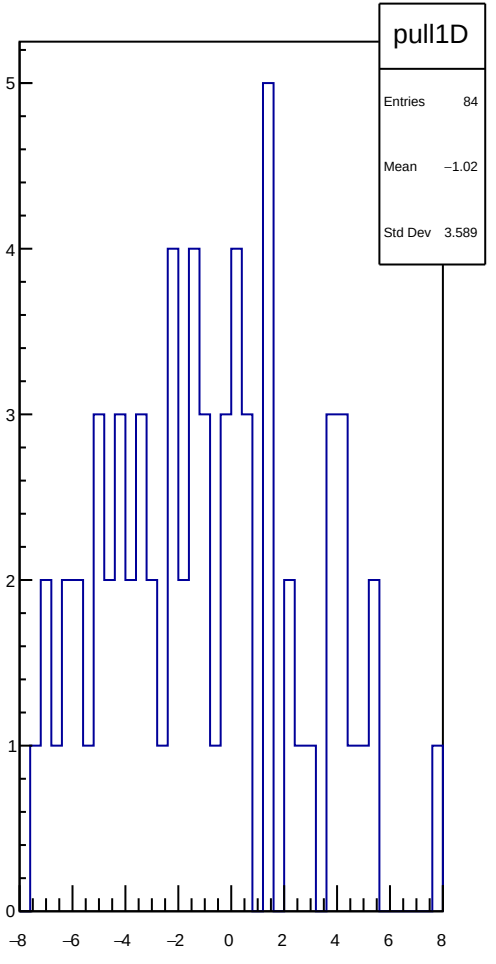

yield_bpm1i04WS_rms vs run
χ² / ndf 1308 / 83
p0 242.6 ± 0.1903
260
255
250
245
240
235
230
225
220

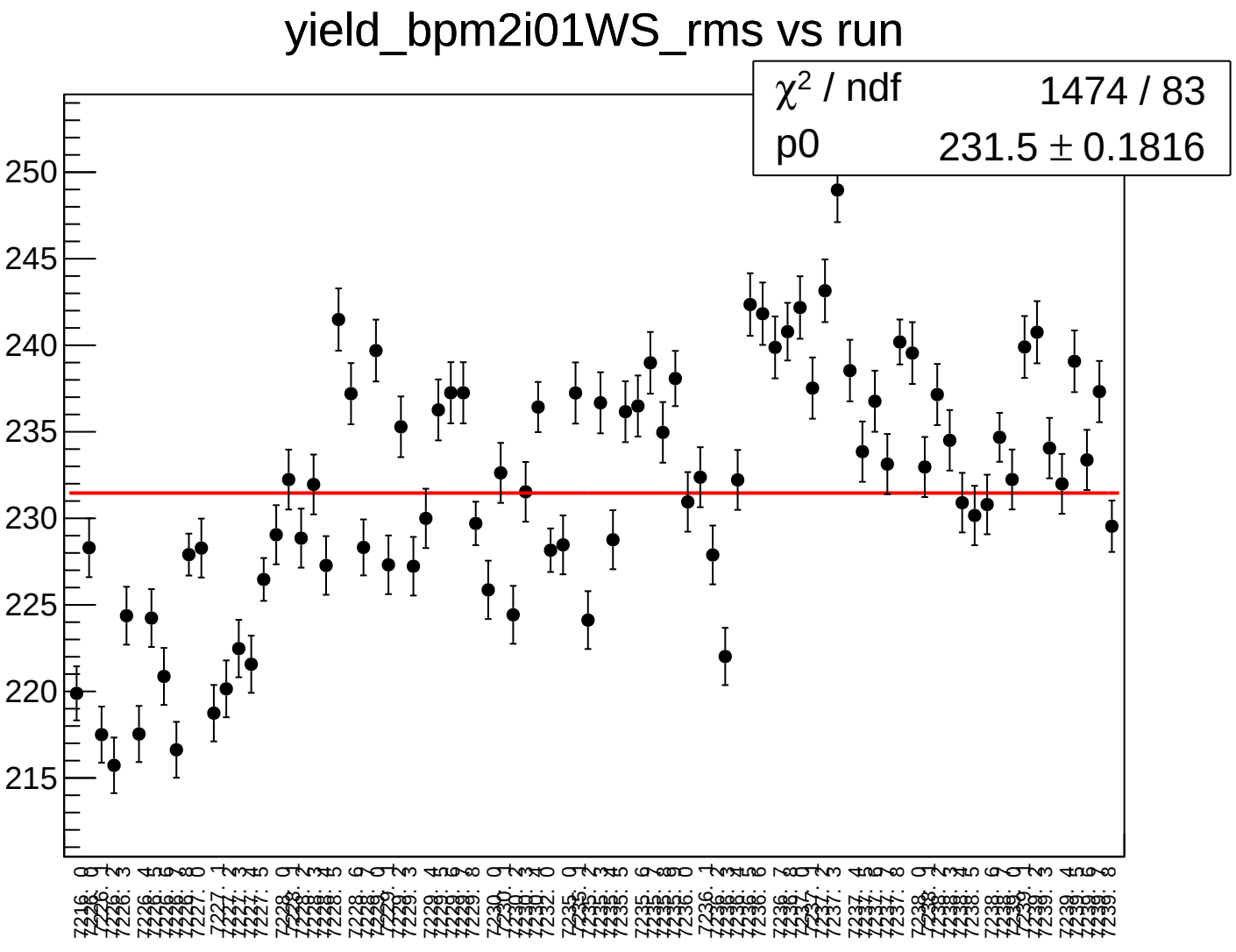

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 1.736e+05 / 83
p0 1.541e+05 ± 0.2547
154.5
154.4
154.3
154.2
154.1
154
153.9
153.8
pull
Entries 84
Mean −4460
Std Dev 0
150
100
50
0
−50
−100

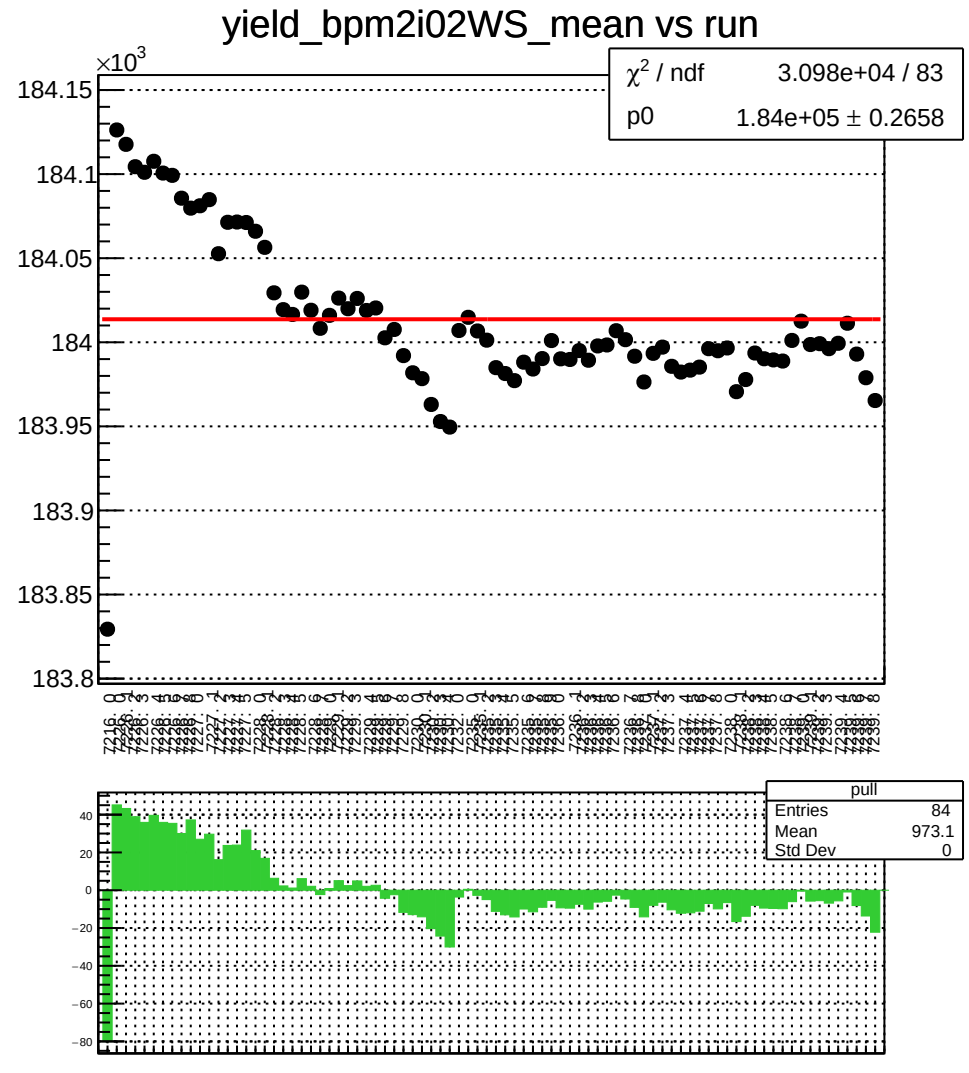

pull1D
Entries 84
Mean 1.574
Std Dev 4.083
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

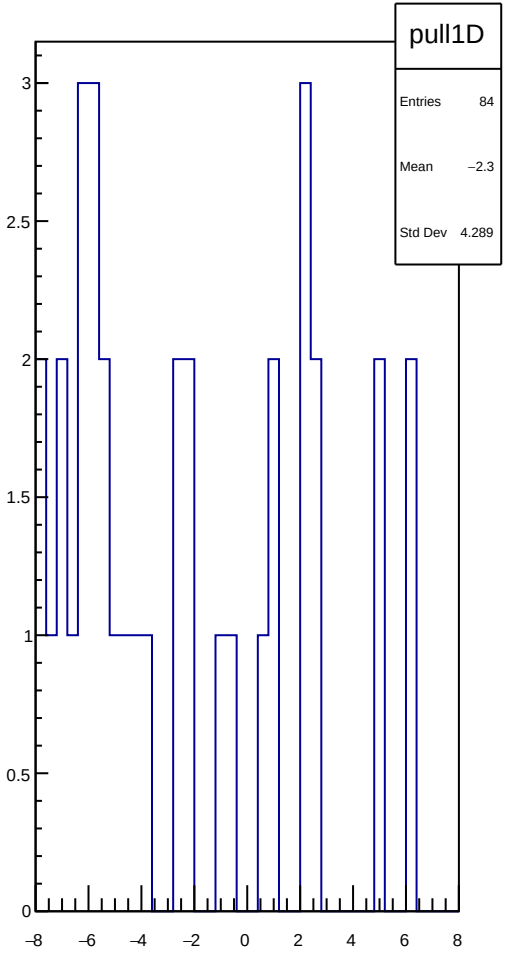

yield_bpm1i06WS_rms vs run
χ² / ndf 2848 / 83
p0 229.4 ± 0.1801
280
270
260
250
240
230
220
210

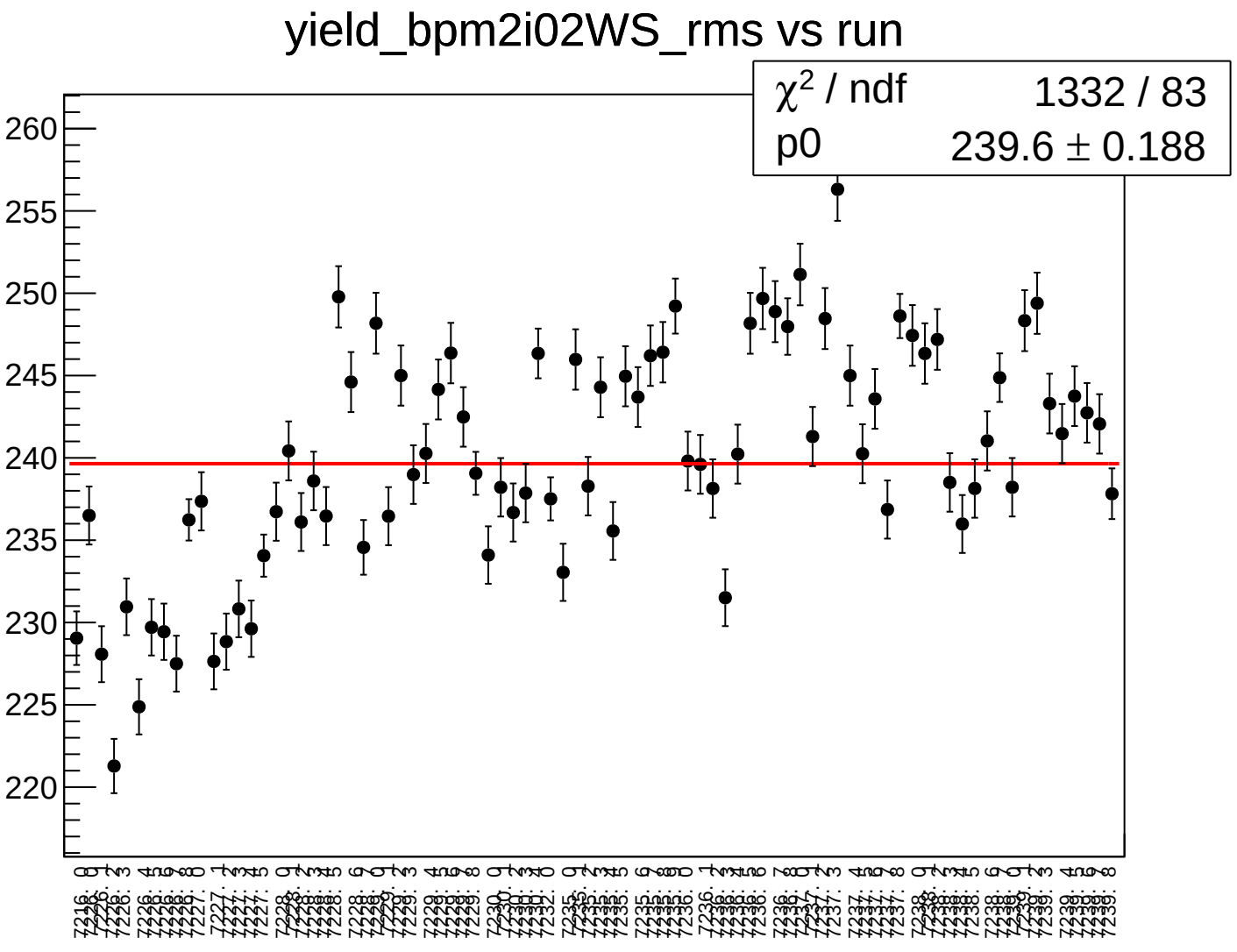

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 4668 / 83
p0 1.765e+05 ± 0.2568
176.52
176.5
176.48
176.46
176.44
pull
Entries 84
Mean 1367
Std Dev 0
20
15
10
5
0
−5
−10

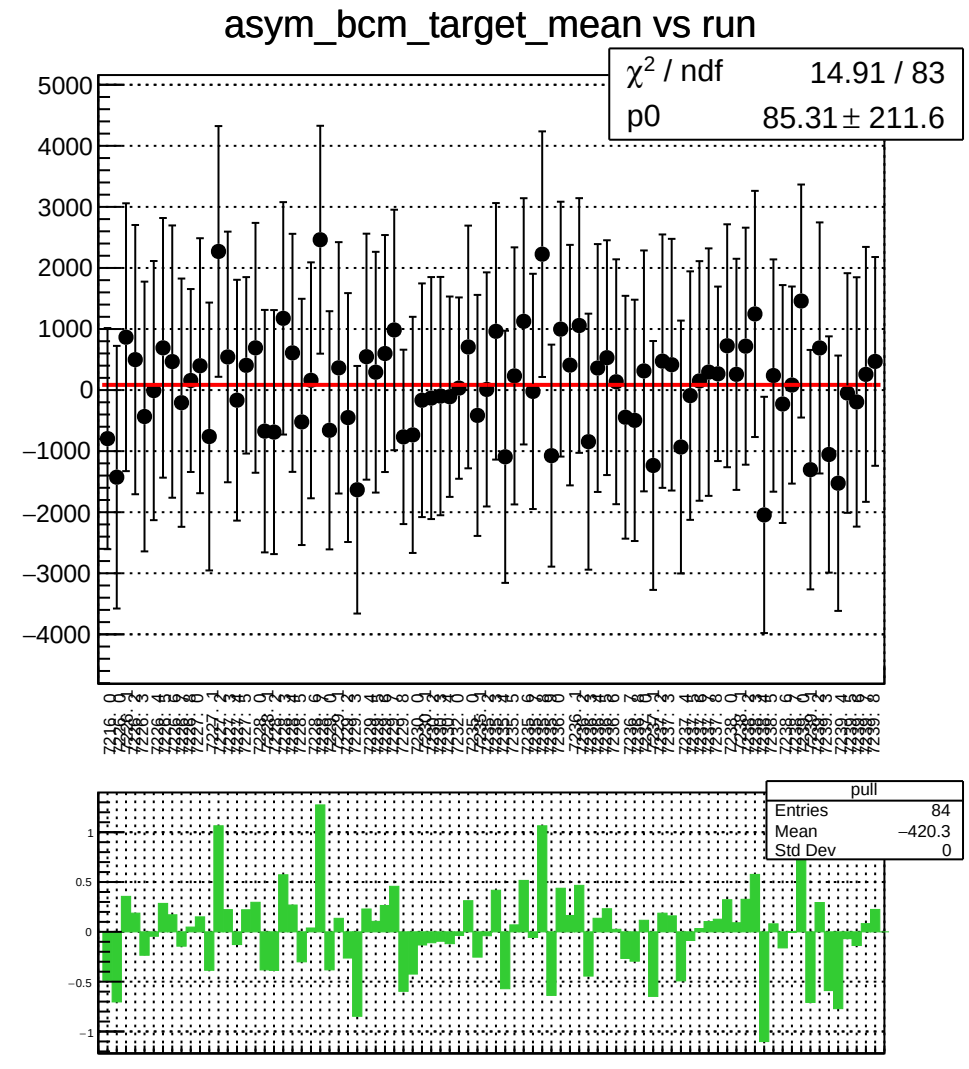

pull1D
Entries 84
Mean −1.02
Std Dev 3.589
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

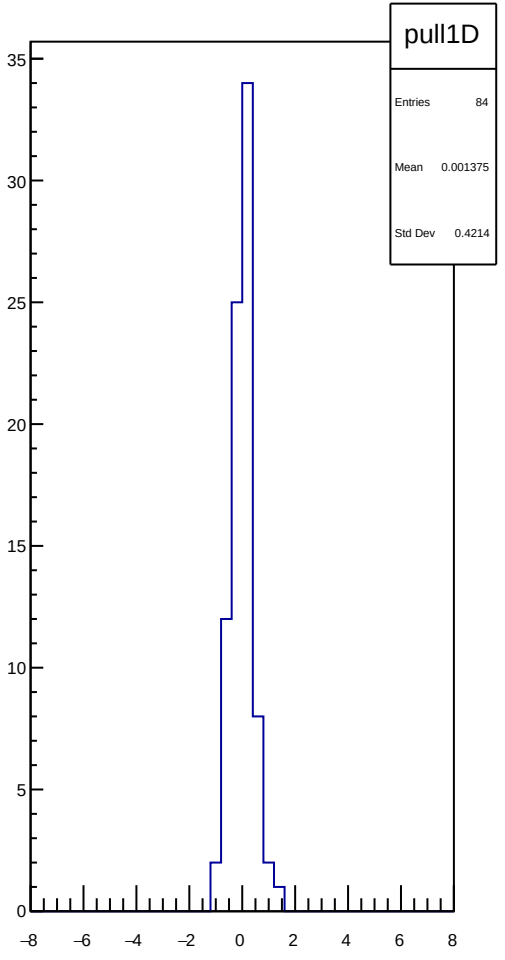

yield_bpm2i01WS_rms vs run
χ² / ndf 1474 / 83
p0 231.5 ± 0.1816
250
245
240
235
230
225
220
215

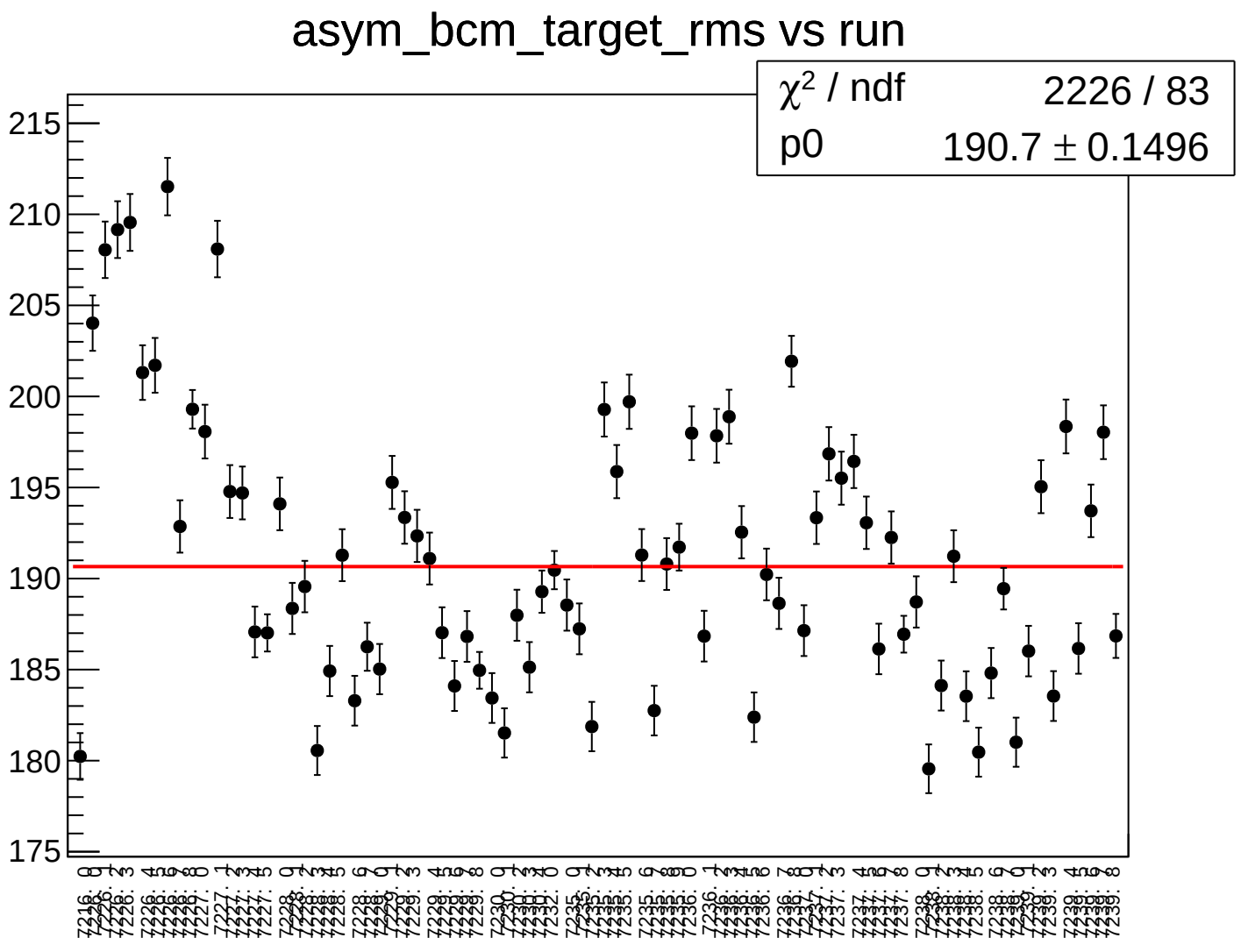

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 3.098e+04 / 83
p0 1.84e+05 ± 0.2658
184.15
184.1
184.05
184
183.95
183.9
183.85
183.8
pull
Entries 84
Mean 973.1
Std Dev 0
40
20
0
−20
−40
−60
−80

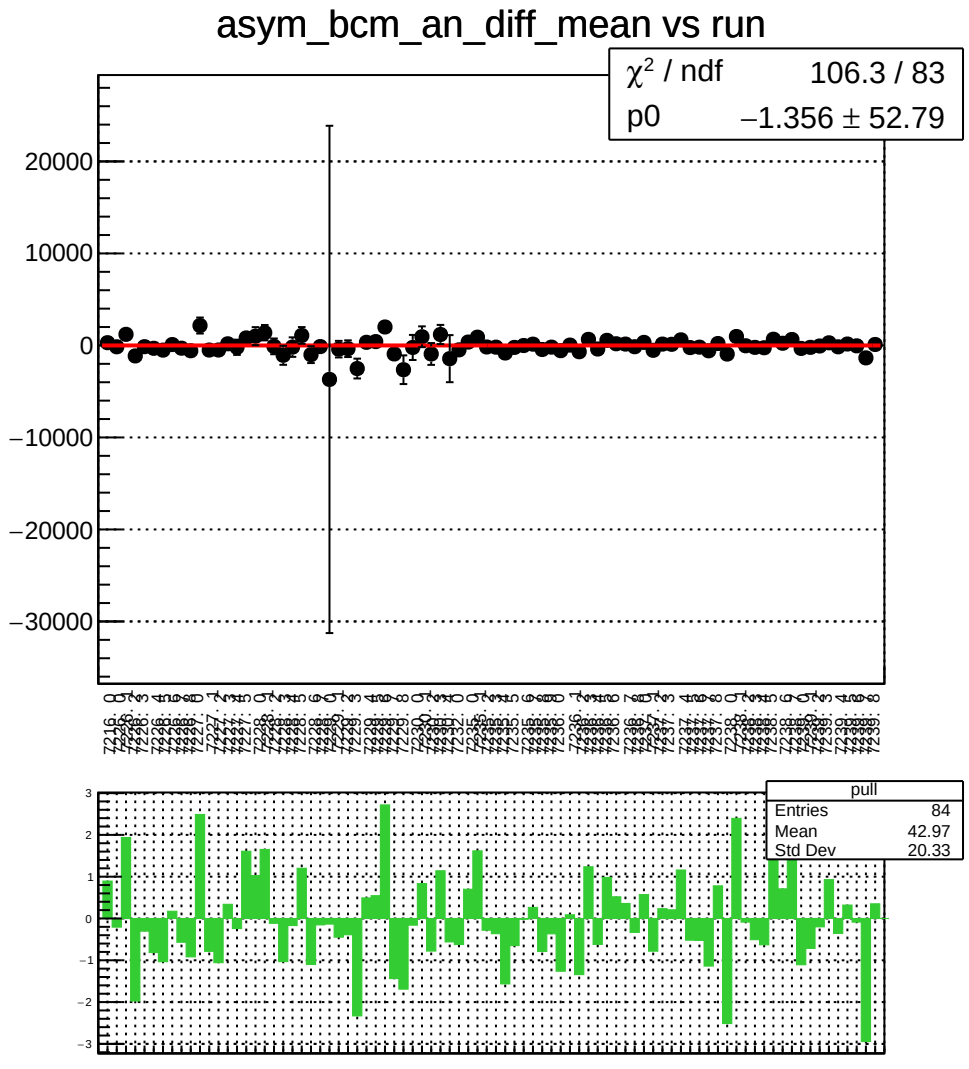

pull1D
Entries 84
Mean −2.3
Std Dev 4.289
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

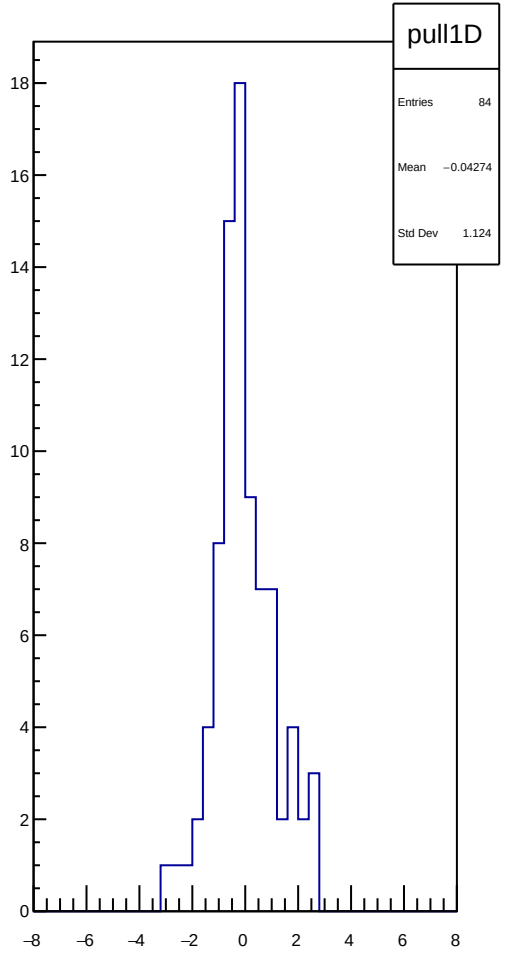

yield_bpm2i02WS_rms vs run
χ² / ndf 1332 / 83
p0 239.6 ± 0.188
260
255
250
245
240
235
230
225
220

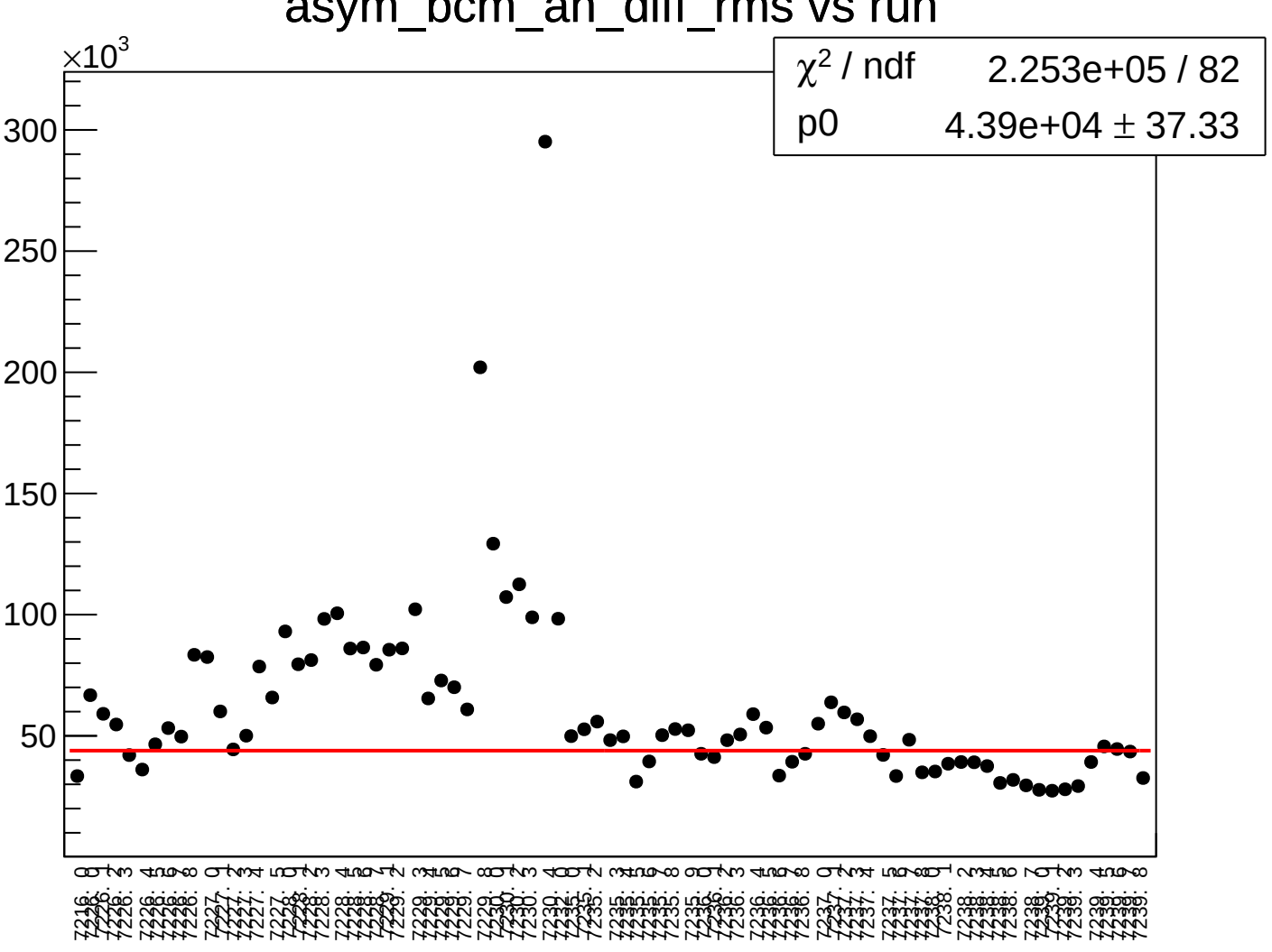

asym_bcm_target_mean vs run
χ² / ndf 14.91 / 83
p0 85.31 ± 211.6
pull
Entries 84
Mean −420.3
Std Dev 0

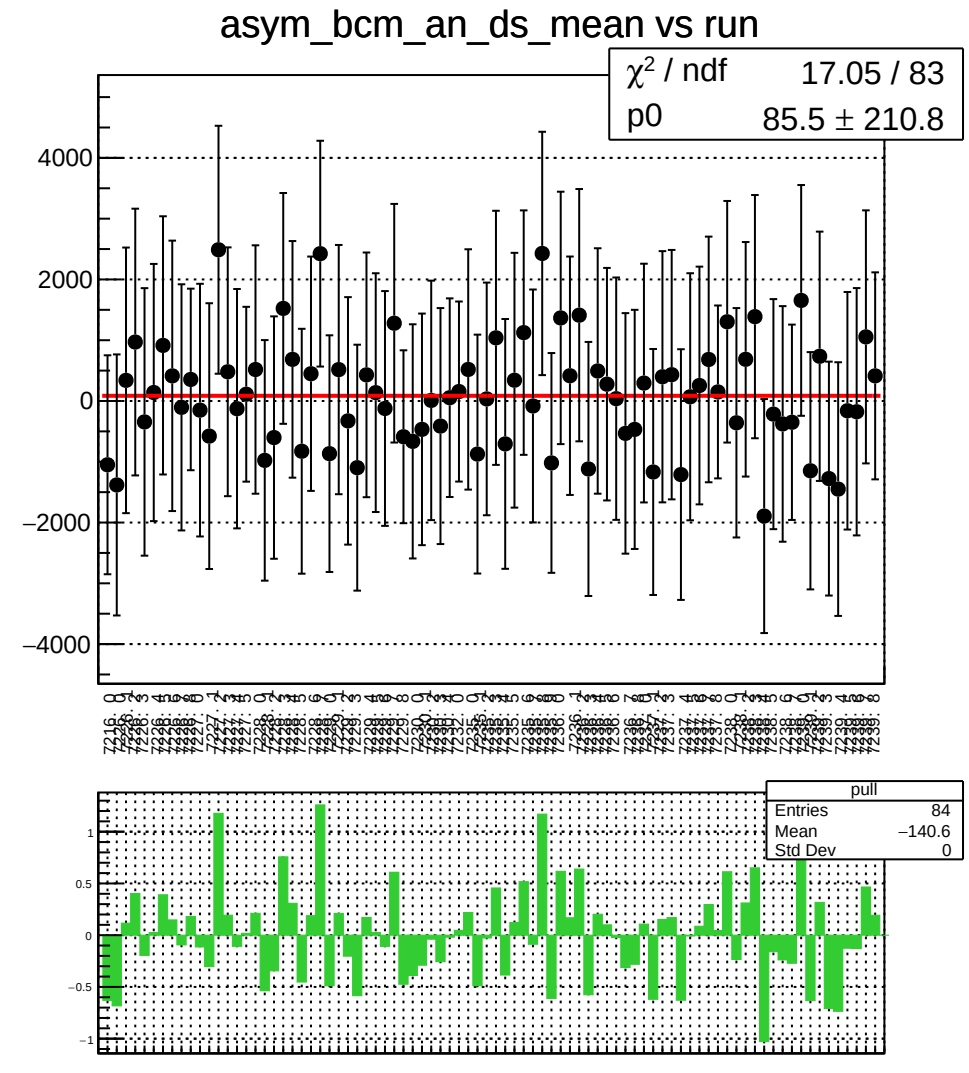

pull1D
Entries 84
Mean 0.001375
Std Dev 0.4214

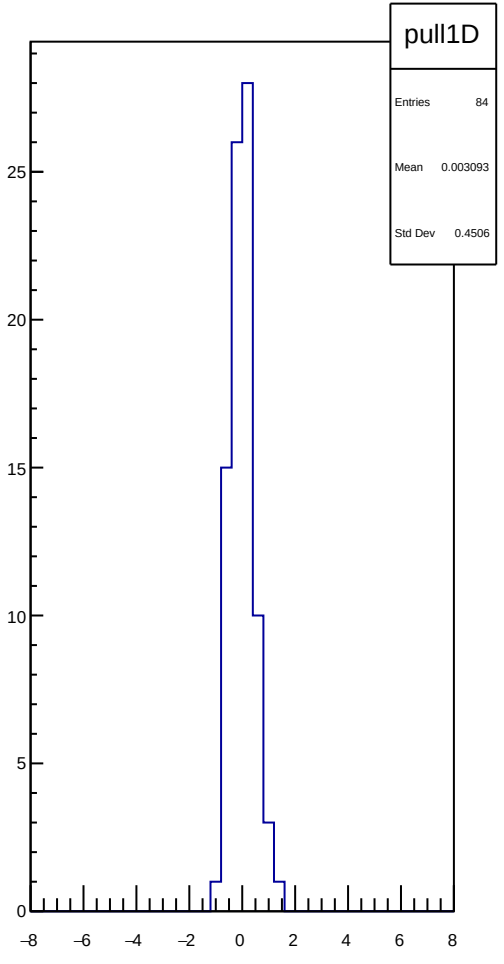

asym_bcm_target_rms vs run
χ² / ndf 2226 / 83
p0 190.7 ± 0.1496
215
210
205
200
195
190
185
180
175

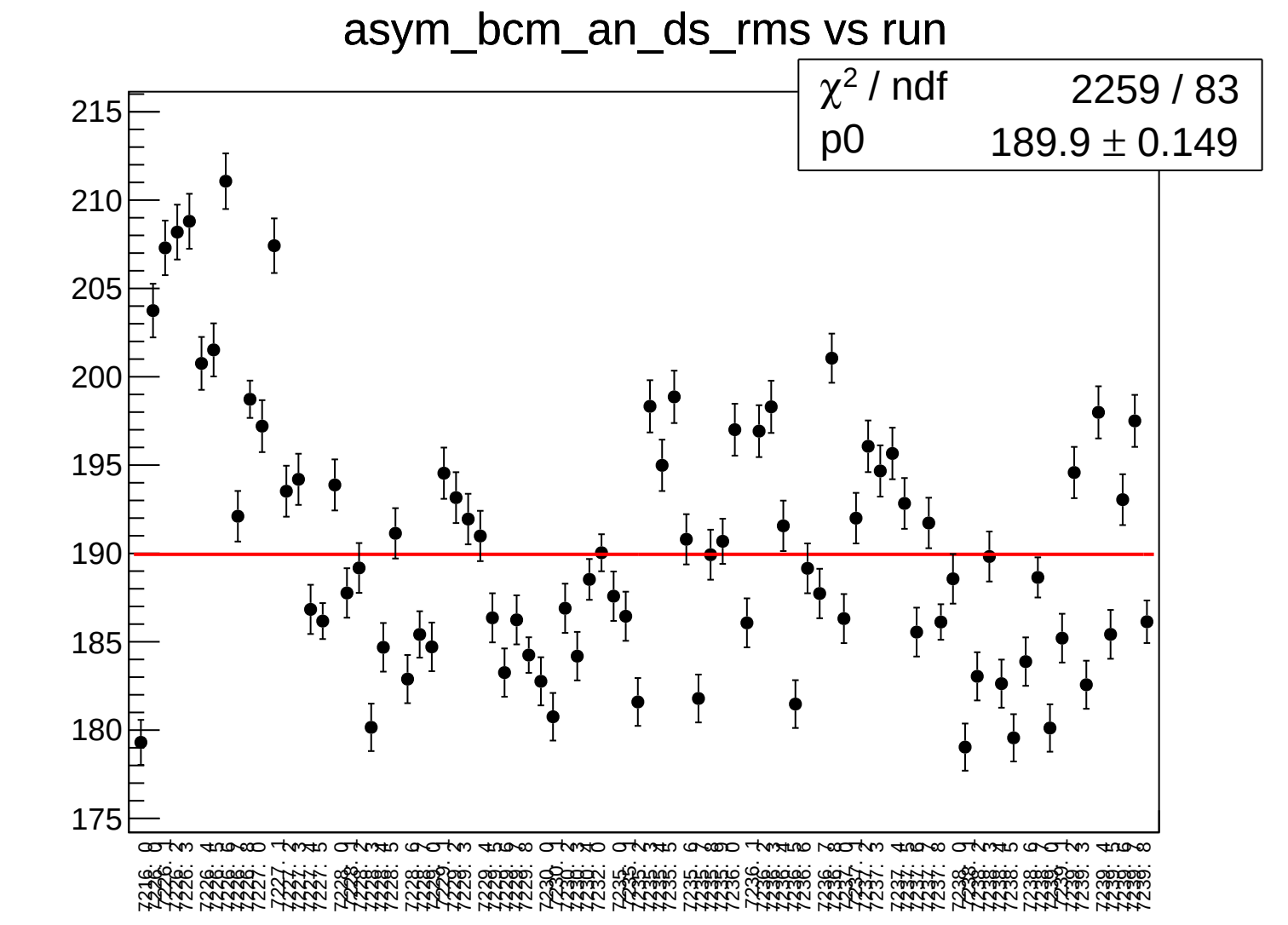

asym_bcm_an_diff_mean vs run
χ² / ndf 106.3 / 83
p0 −1.356 ± 52.79
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean 42.97
Std Dev 20.33
3
2
1
0
−1
−2
−3

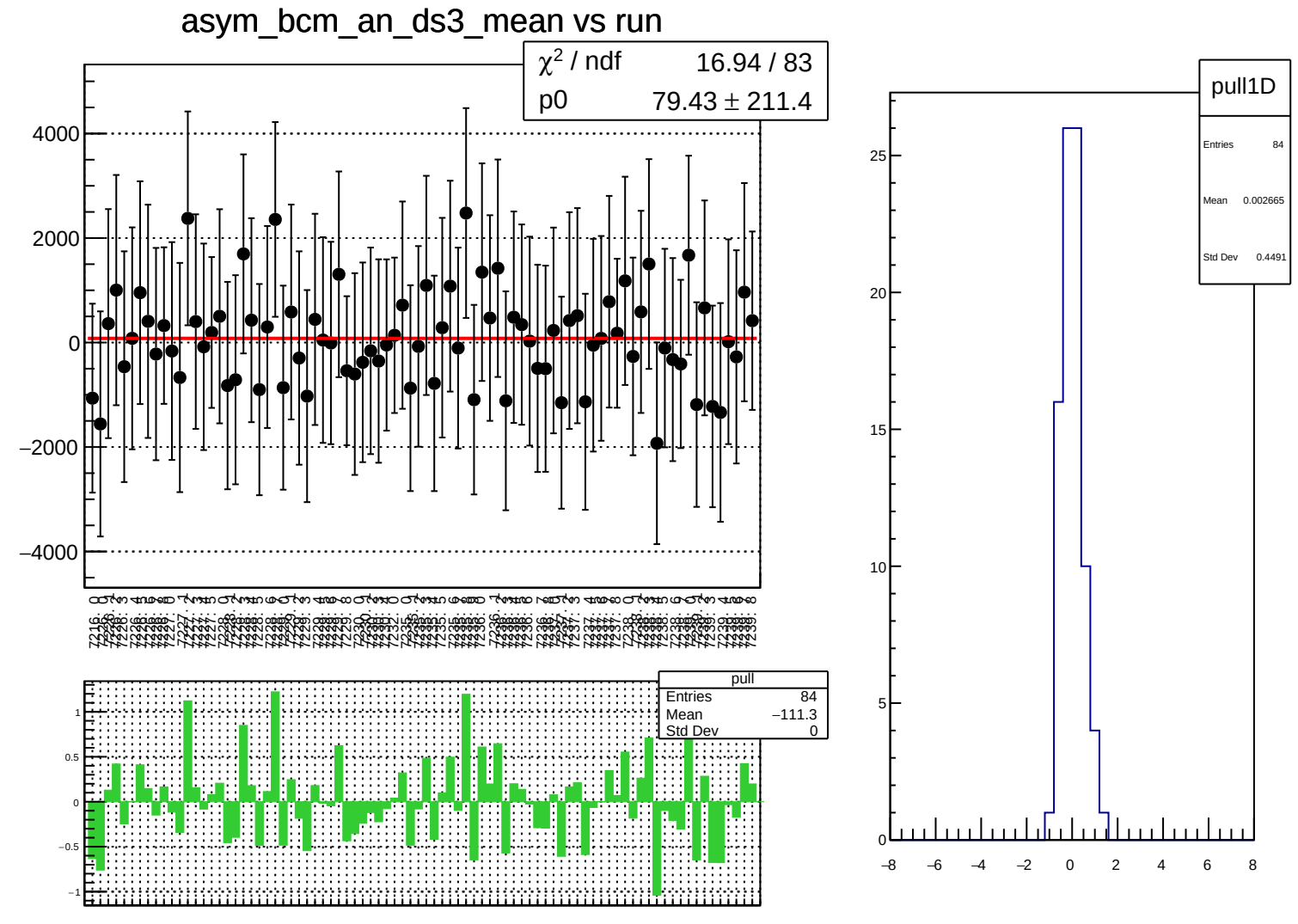

pull1D
Entries 84
Mean −0.04274
Std Dev 1.124
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

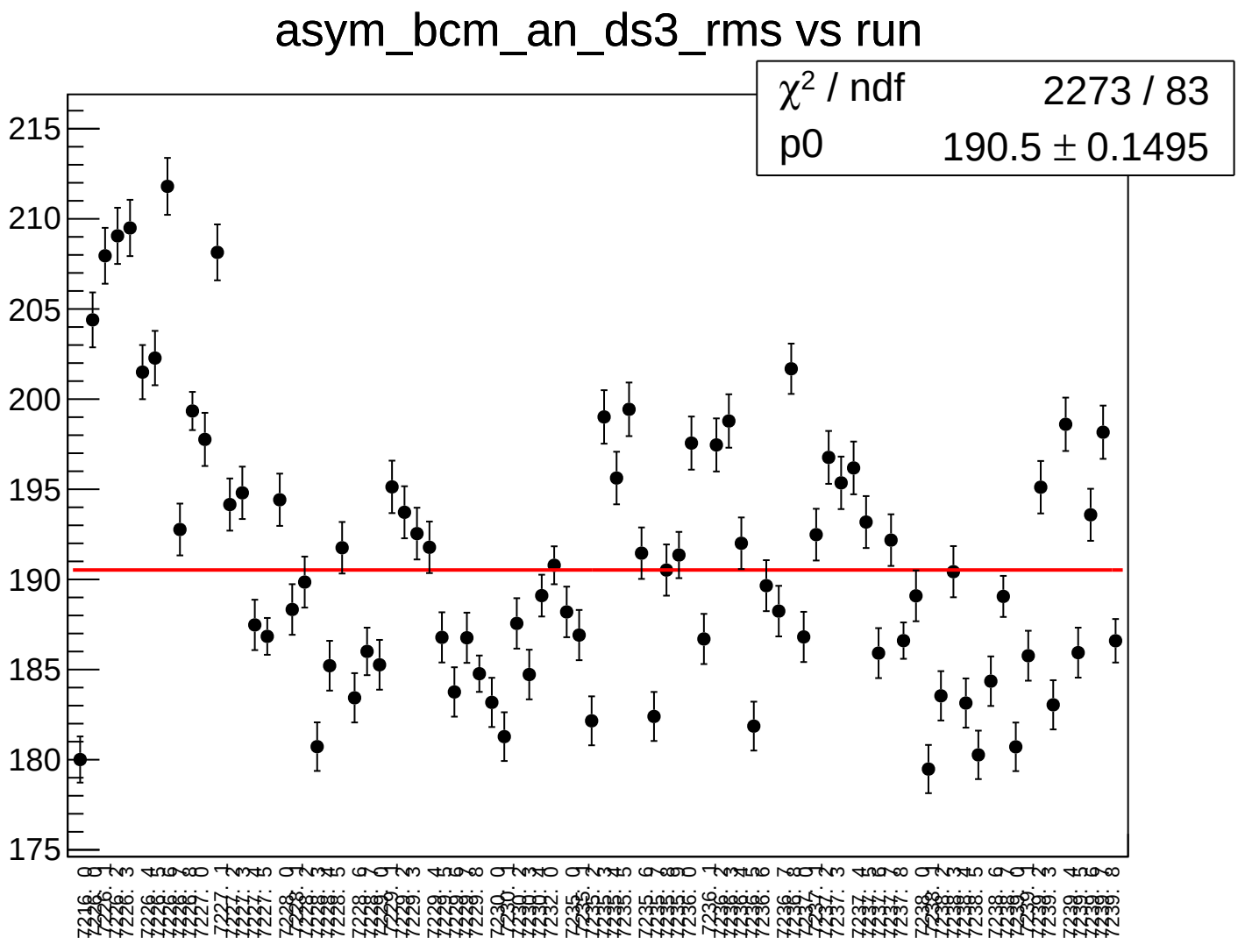

asym_bcm_an_diff_rms vs run
×10^3
χ^2 / ndf 2.253e+05 / 82
p0 4.39e+04 ± 37.33
300
250
200
150
100
50

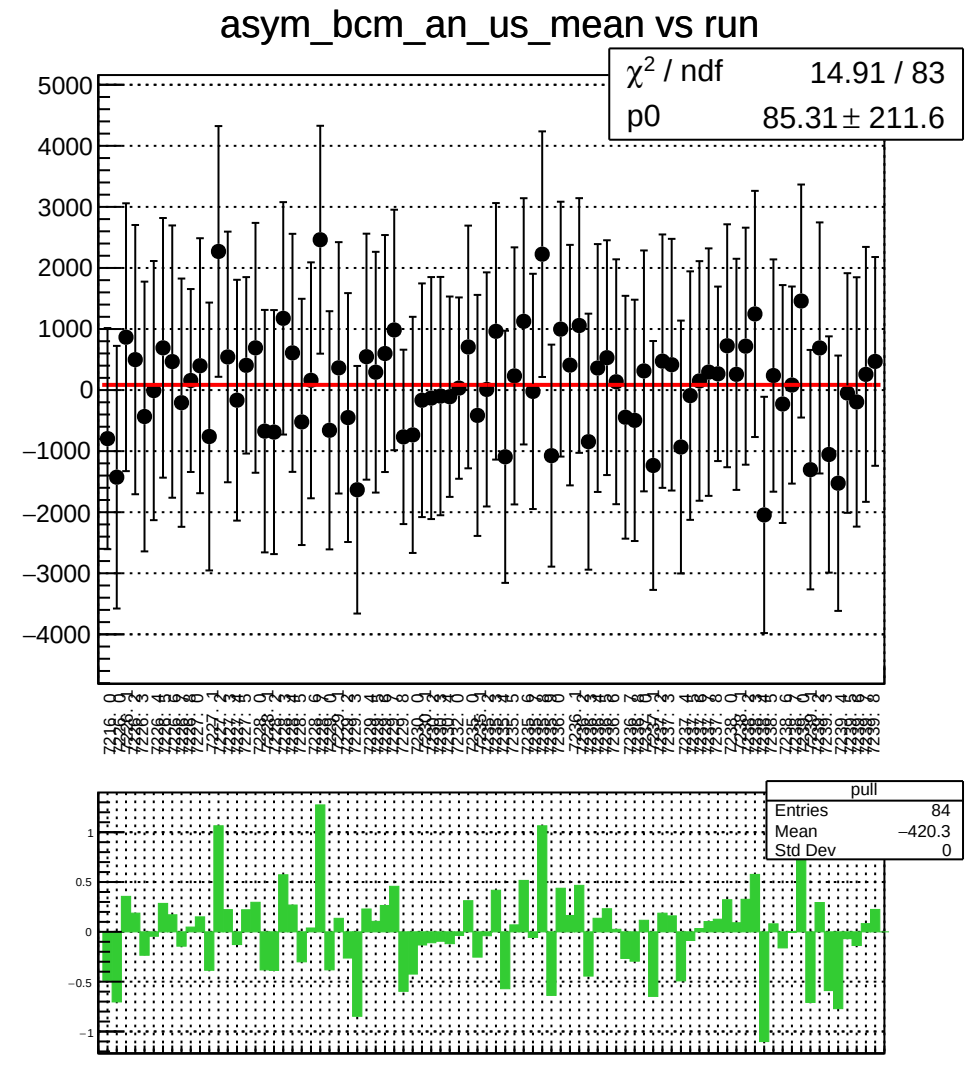

asym_bcm_an_ds_mean vs run
χ² / ndf 17.05 / 83
p0 85.5 ± 210.8
4000
2000
0
−2000
−4000
pull
Entries 84
Mean −140.6
Std Dev 0
1
0.5
0
−0.5
−1

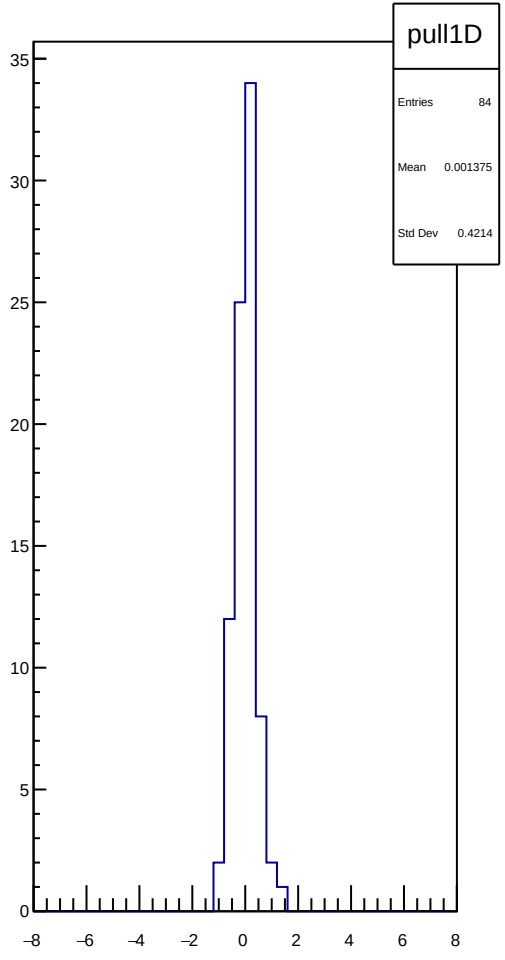

pull1D
Entries 84
Mean 0.003093
Std Dev 0.4506
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

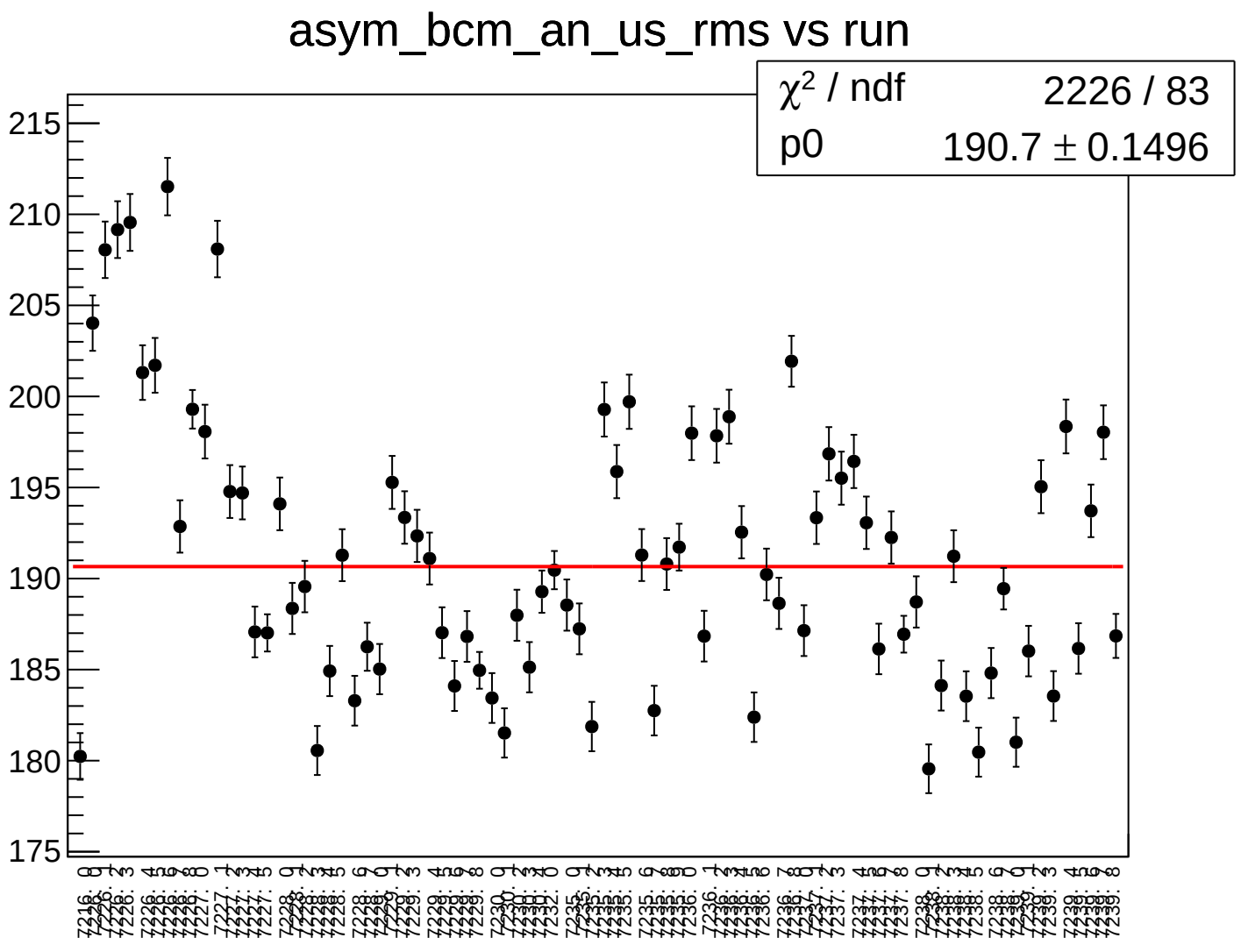

asym_bcm_an_ds_rms vs run
χ² / ndf 2259 / 83
p0 189.9 ± 0.149
215
210
205
200
195
190
185
180
175

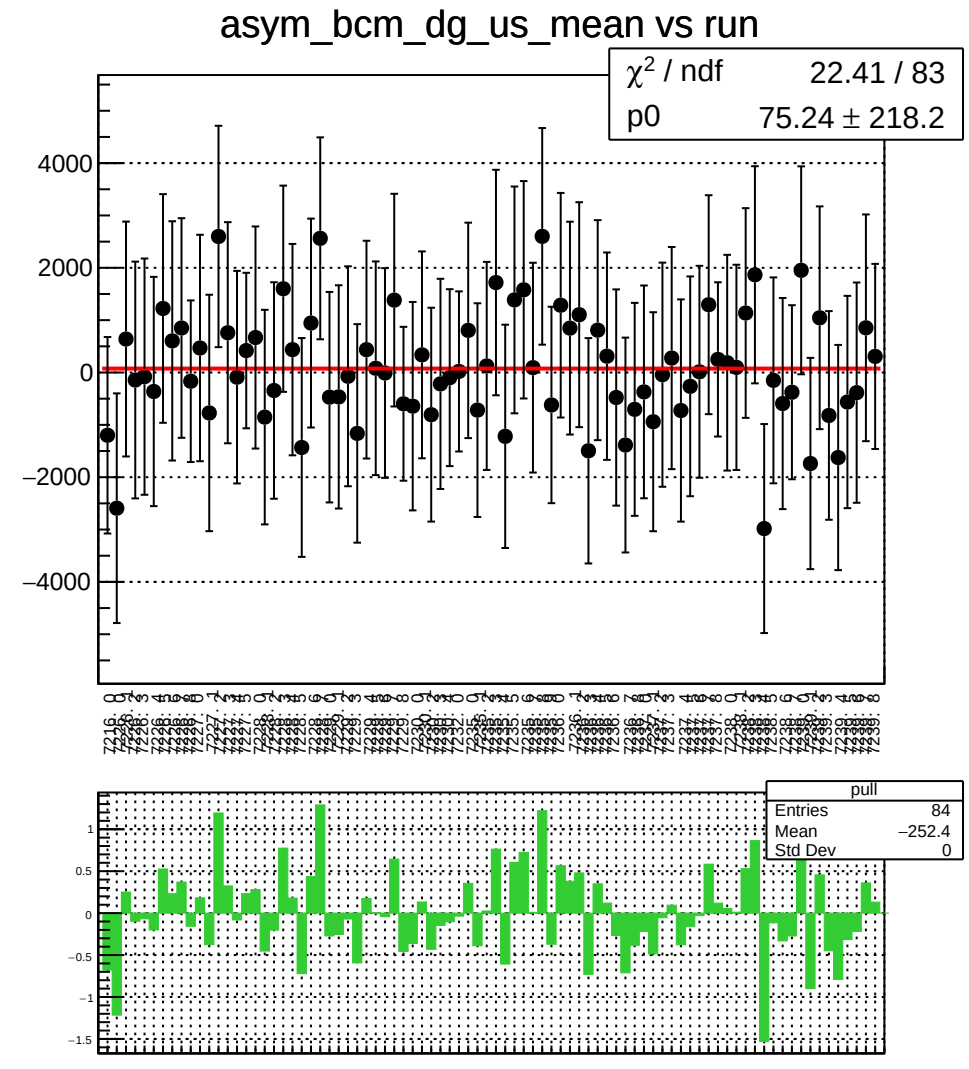

asym_bcm_an_ds3_mean vs run
χ² / ndf 16.94 / 83
p0 79.43 ± 211.4
4000
2000
0
−2000
−4000
pull
Entries 84
Mean −111.3
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 84
Mean 0.002665
Std Dev 0.4491
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

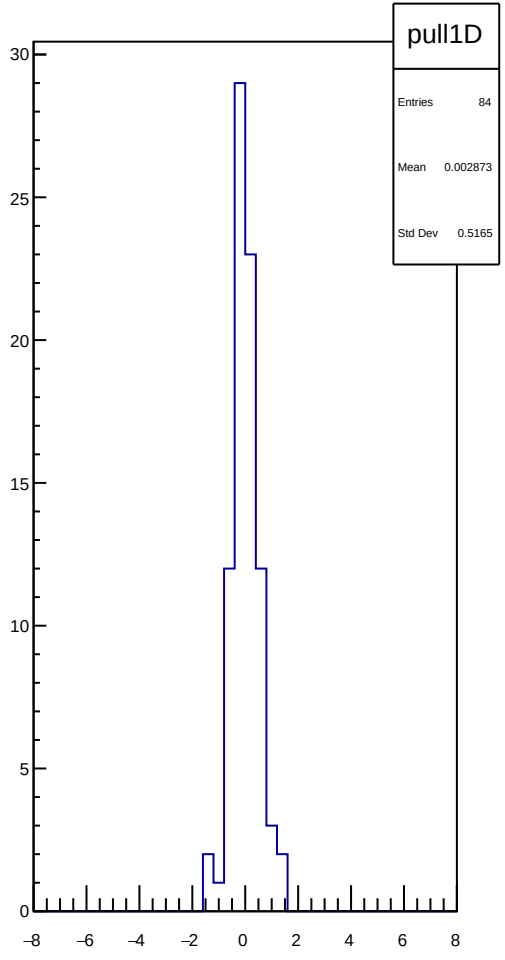

asym_bcm_an_ds3_rms vs run
χ² / ndf 2273 / 83
p0 190.5 ± 0.1495
215
210
205
200
195
190
185
180
175

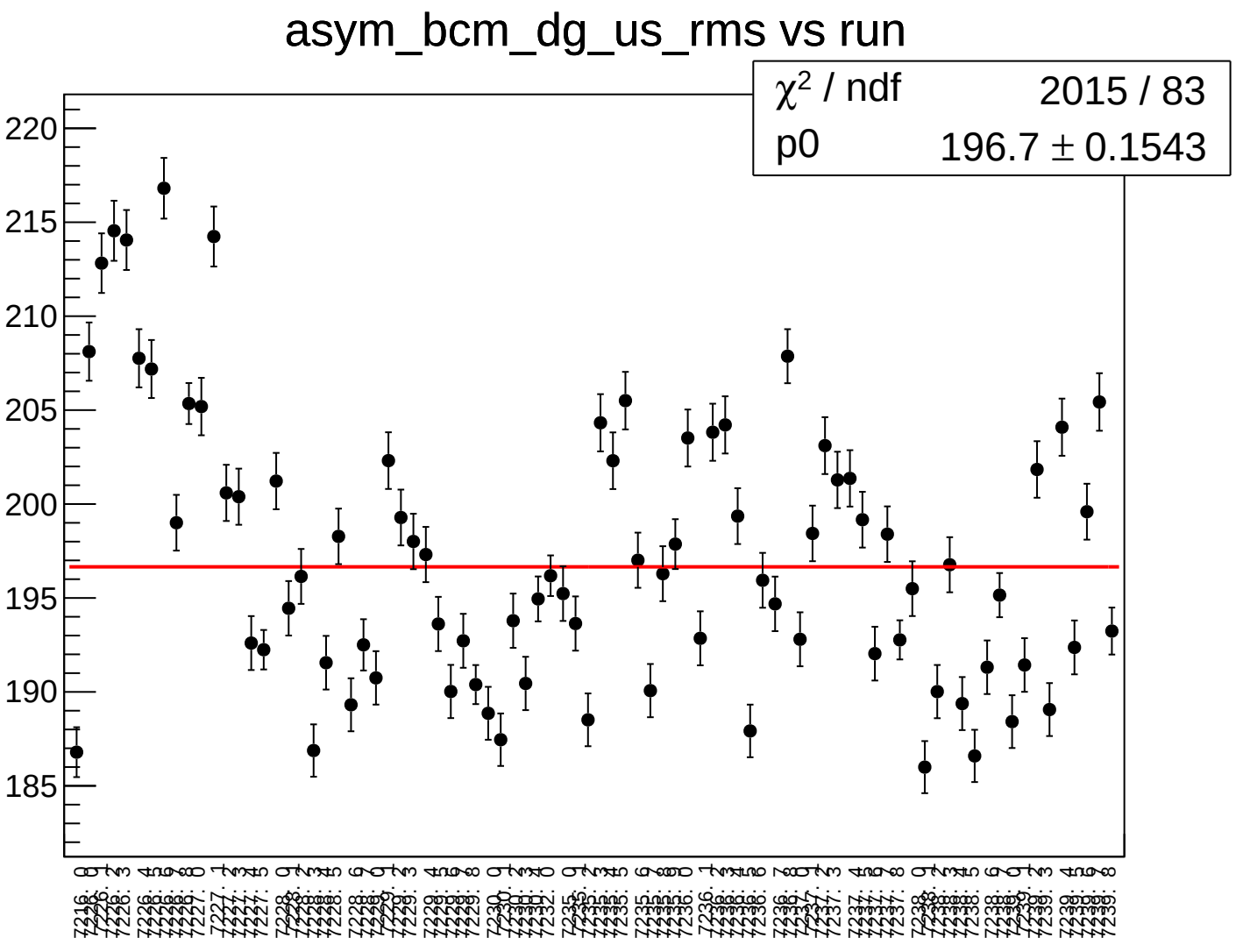

asym_bcm_an_us_mean vs run
χ² / ndf 14.91 / 83
p0 85.31 ± 211.6
pull
Entries 84
Mean −420.3
Std Dev 0

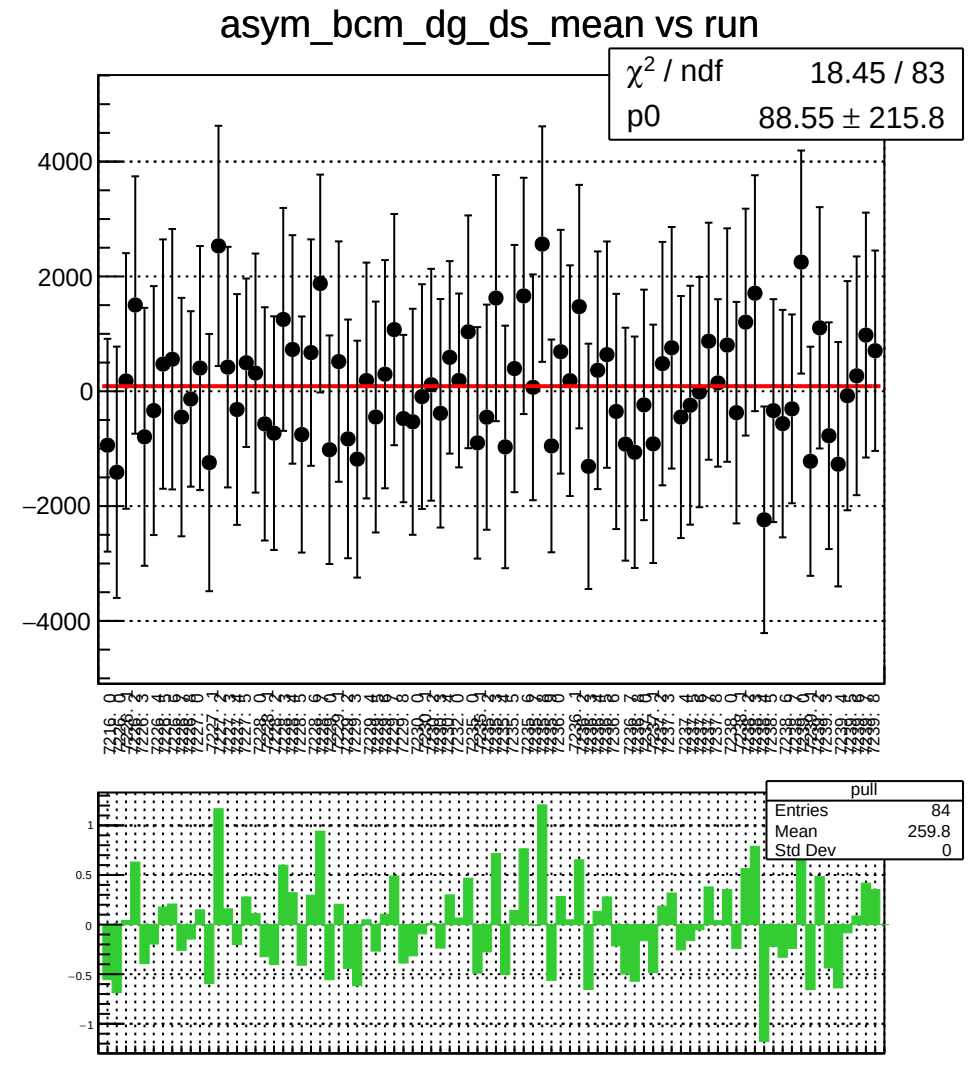

pull1D
Entries 84
Mean 0.001375
Std Dev 0.4214

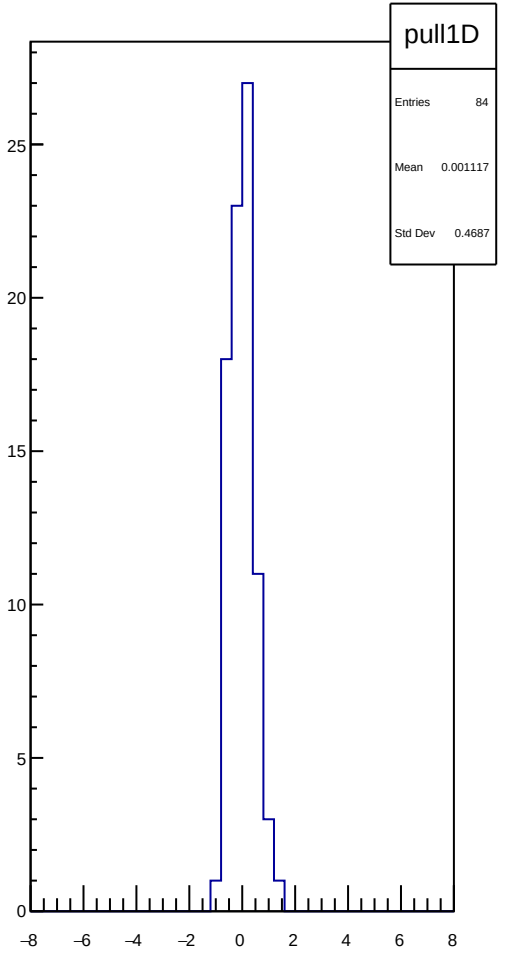

asym_bcm_an_us_rms vs run
χ² / ndf 2226 / 83
p0 190.7 ± 0.1496
215
210
205
200
195
190
185
180
175

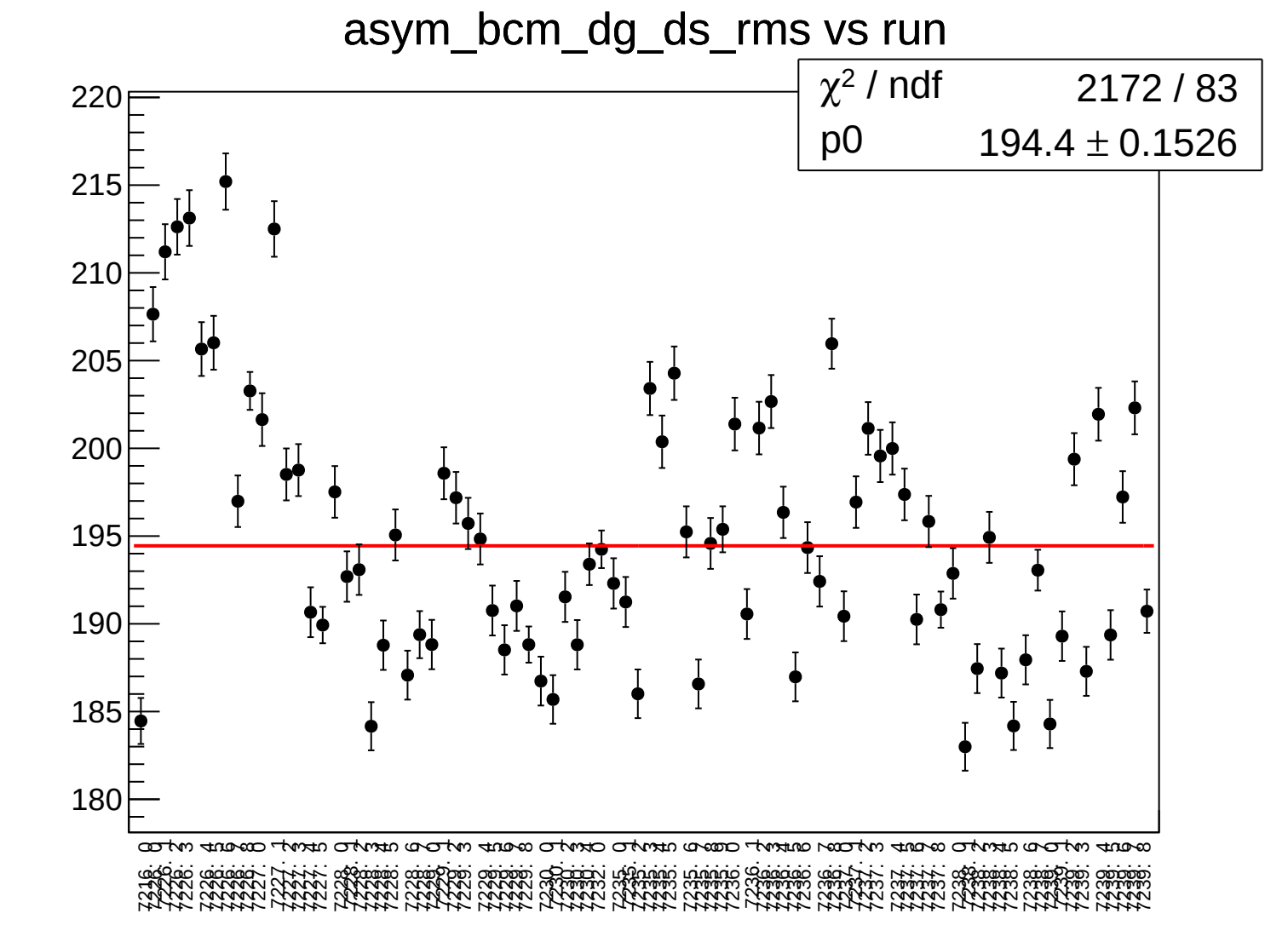

asym_bcm_dg_us_mean vs run
χ² / ndf 22.41 / 83
p0 75.24 ± 218.2
4000
2000
0
−2000
−4000
pull
Entries 84
Mean −252.4
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

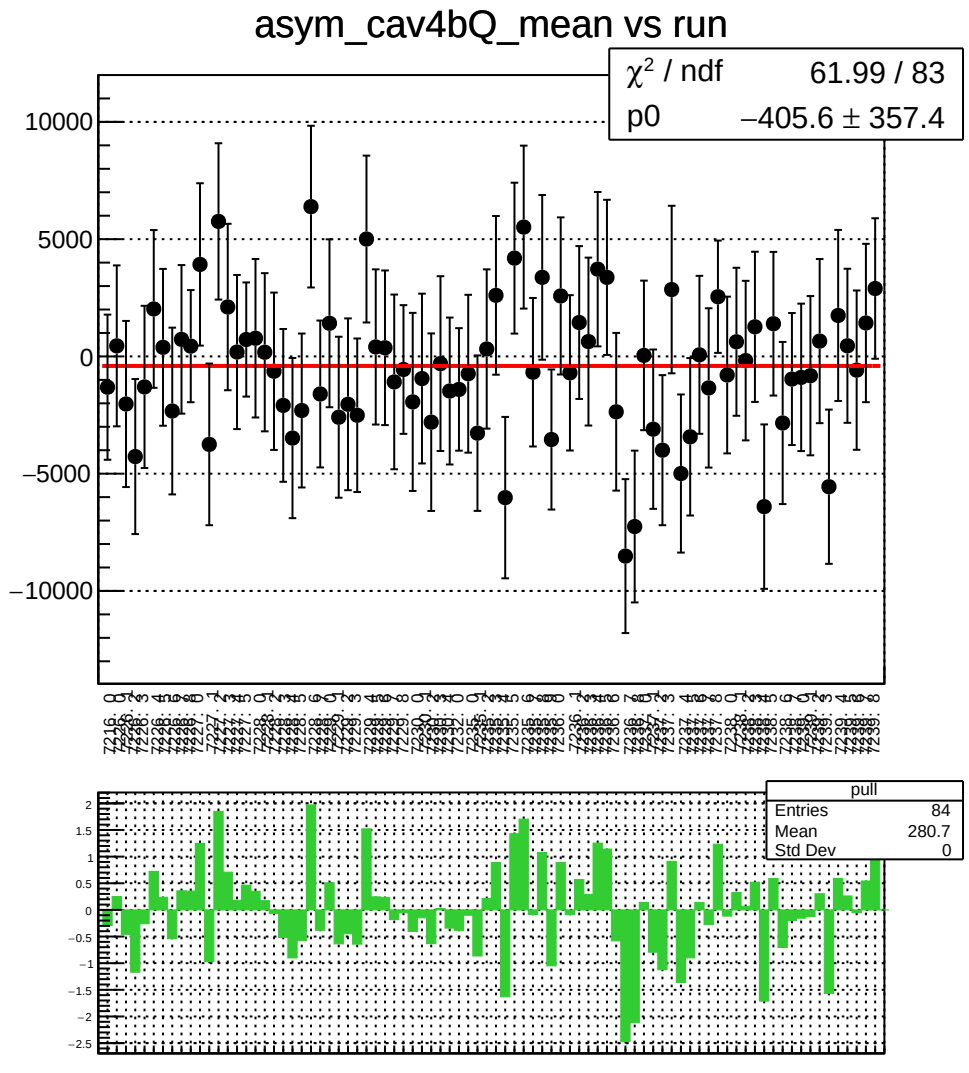

pull1D
Entries 84
Mean 0.002873
Std Dev 0.5165
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

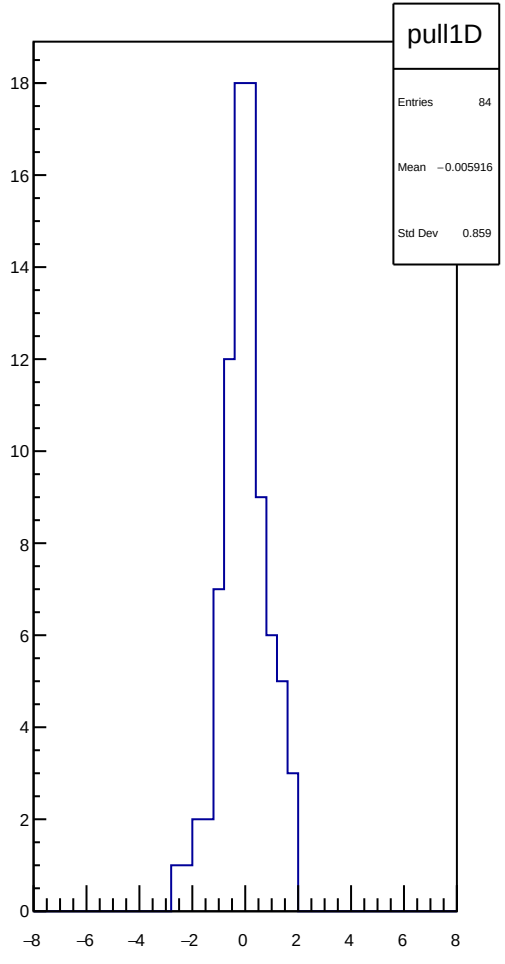

asym_bcm_dg_us_rms vs run
χ² / ndf 2015 / 83
p0 196.7 ± 0.1543
220
215
210
205
200
195
190
185

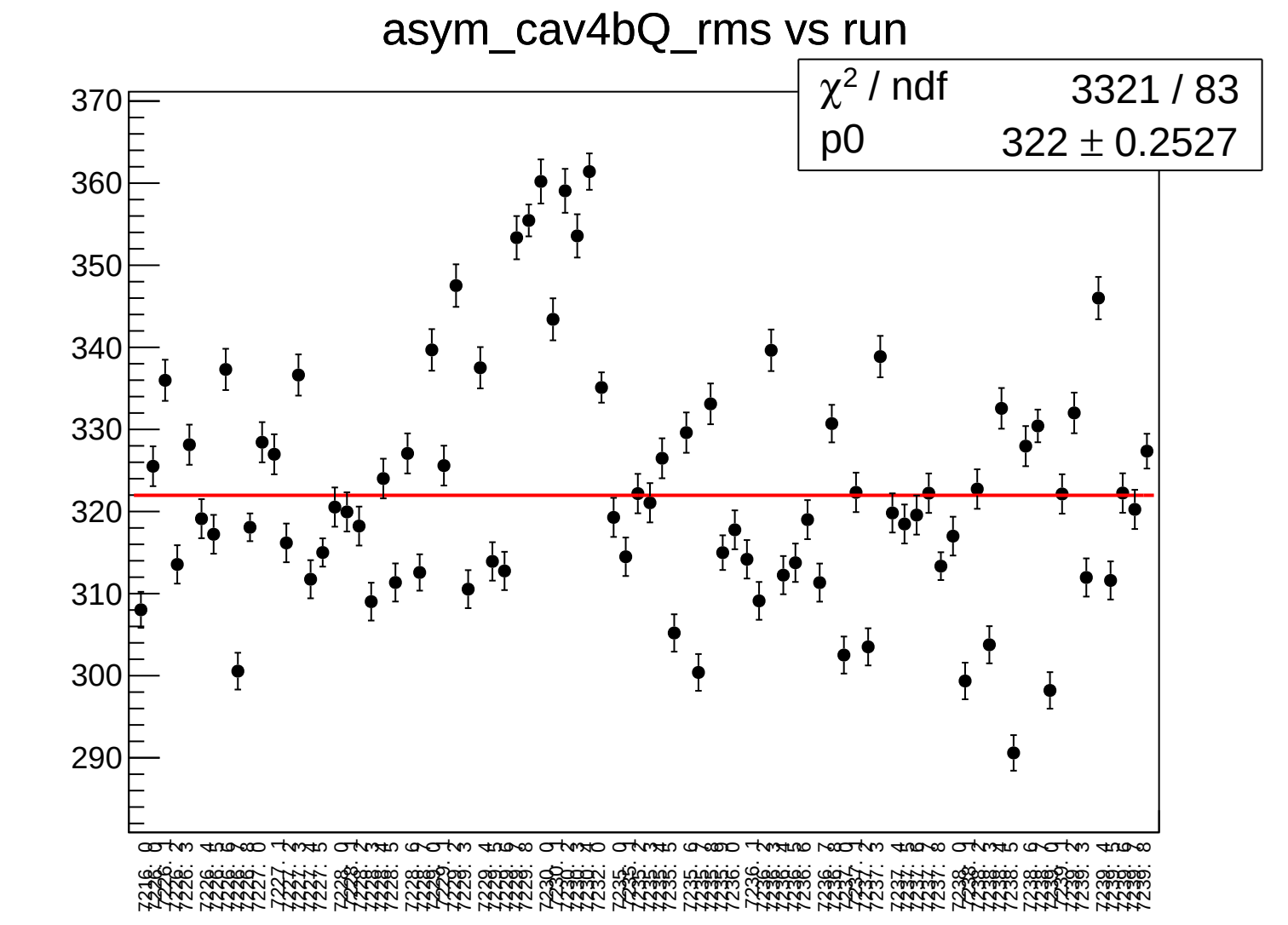

asym_bcm_dg_ds_mean vs run
χ² / ndf 18.45 / 83
p0 88.55 ± 215.8
4000
2000
0
−2000
−4000
pull
Entries 84
Mean 259.8
Std Dev 0
1
0.5
0
−0.5
−1

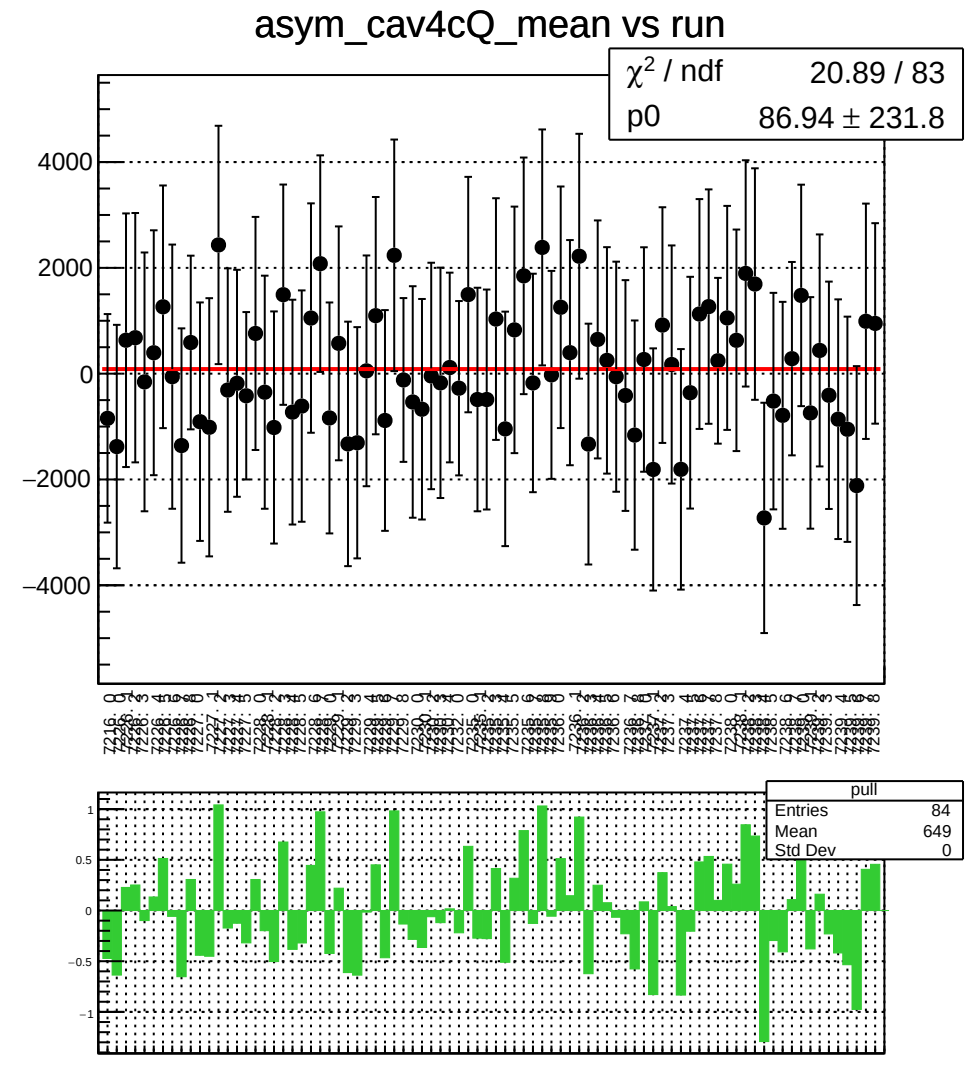

pull1D
Entries 84
Mean 0.001117
Std Dev 0.4687
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

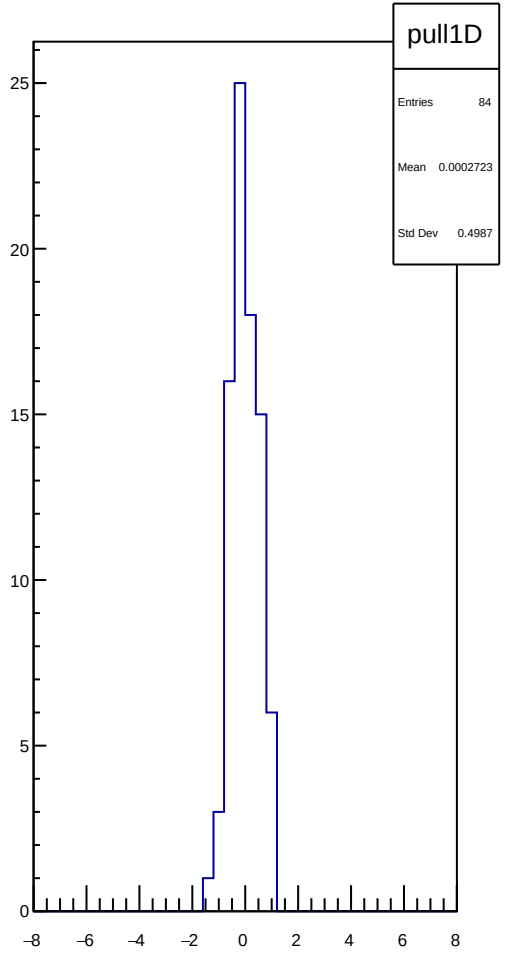

asym_bcm_dg_ds_rms vs run
χ^2 / ndf 2172 / 83
p0 194.4 ± 0.1526
220
215
210
205
200
195
190
185
180

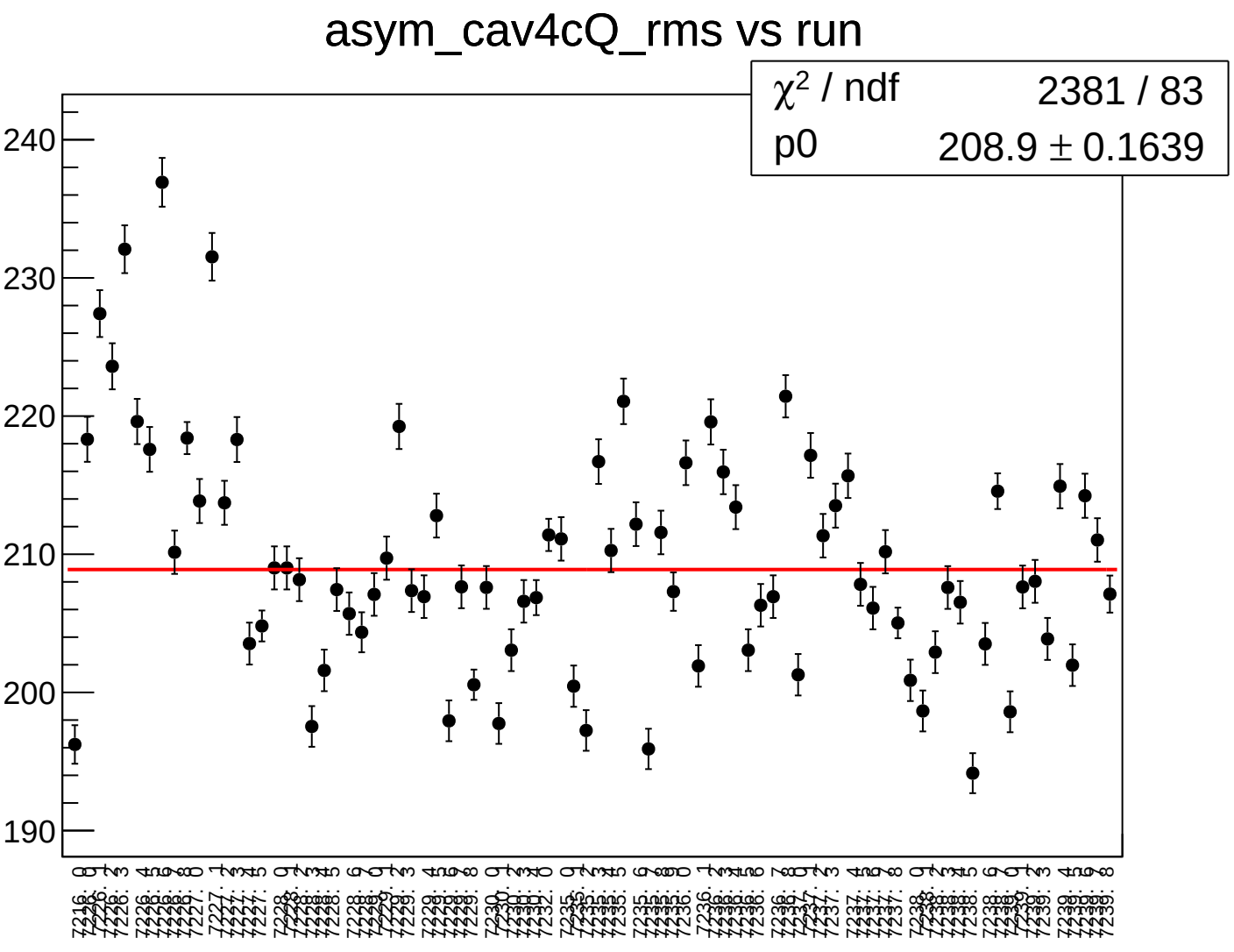

asym_cav4bQ_mean vs run
χ² / ndf 61.99 / 83
p0 −405.6 ± 357.4
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 280.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

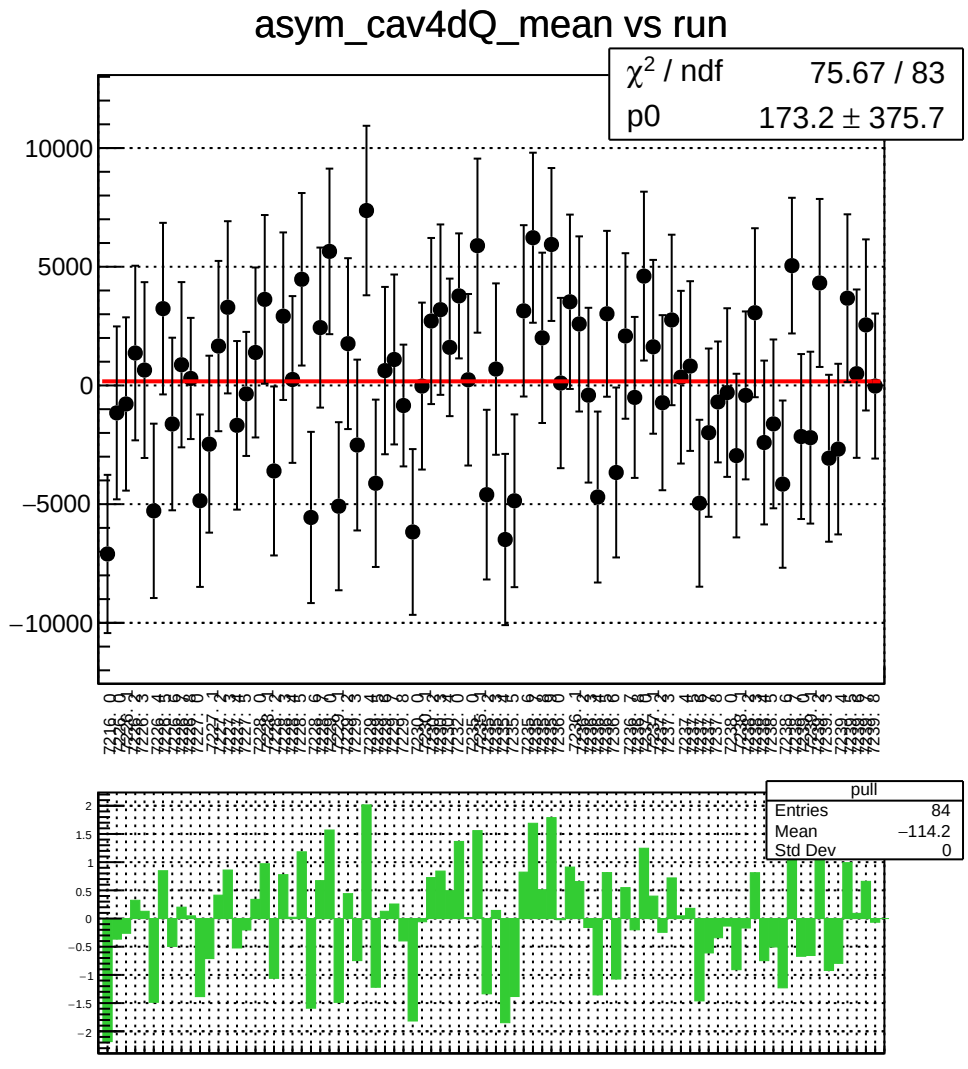

pull1D
Entries 84
Mean −0.005916
Std Dev 0.859
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

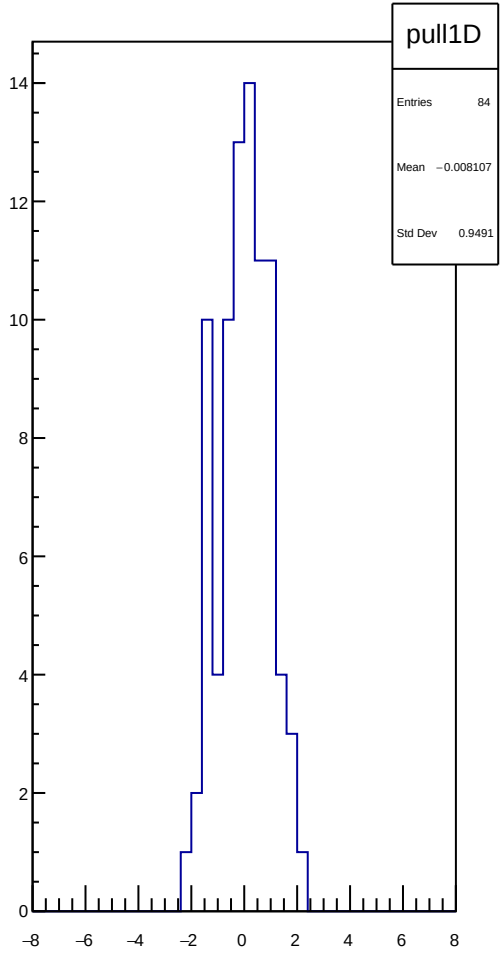

asym_cav4bQ_rms vs run
χ^2 / ndf 3321 / 83
p0 322 ± 0.2527
370
360
350
340
330
320
310
300
290

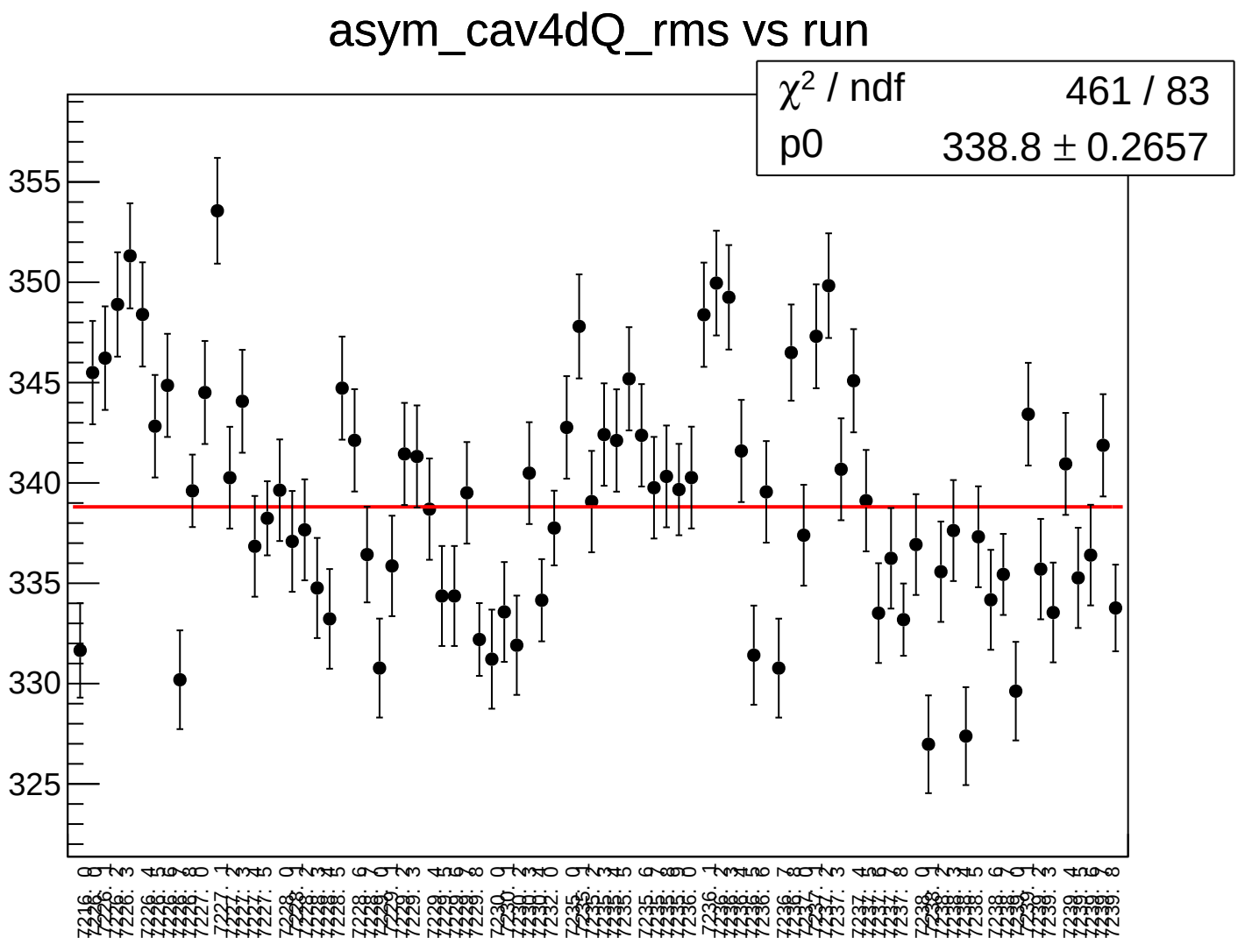

asym_cav4cQ_mean vs run
χ² / ndf 20.89 / 83
p0 86.94 ± 231.8
4000
2000
0
−2000
−4000
pull
Entries 84
Mean 649
Std Dev 0
1
0.5
0
−0.5
−1

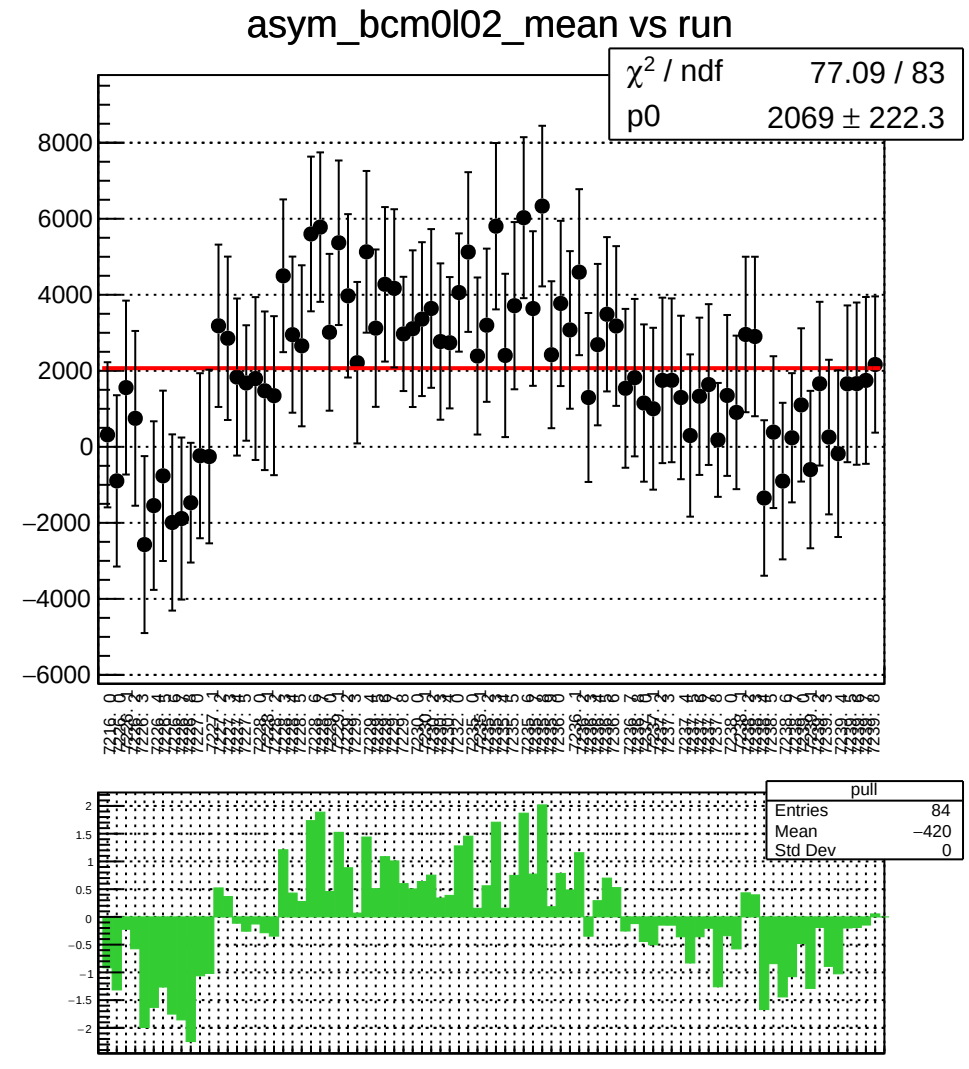

pull1D
Entries 84
Mean 0.0002723
Std Dev 0.4987
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

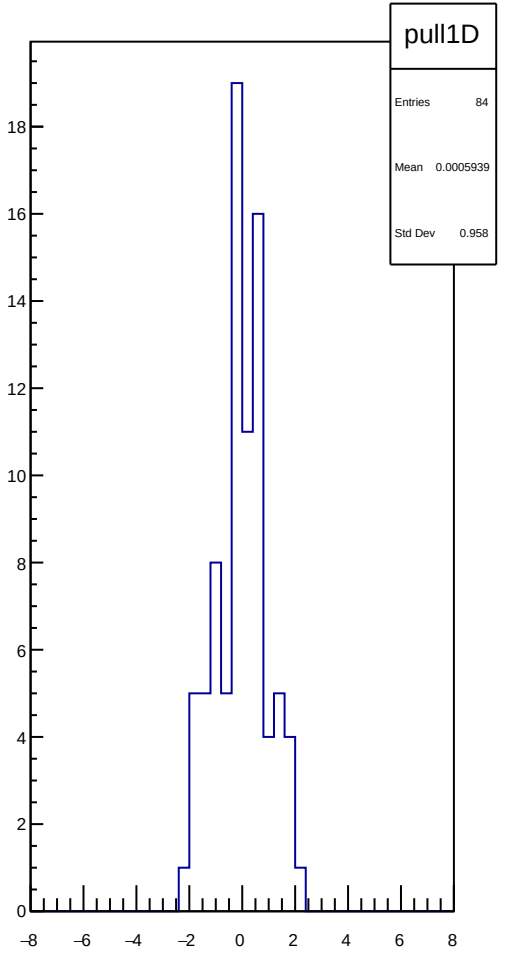

asym_cav4cQ_rms vs run
χ² / ndf 2381 / 83
p0 208.9 ± 0.1639
240
230
220
210
200
190

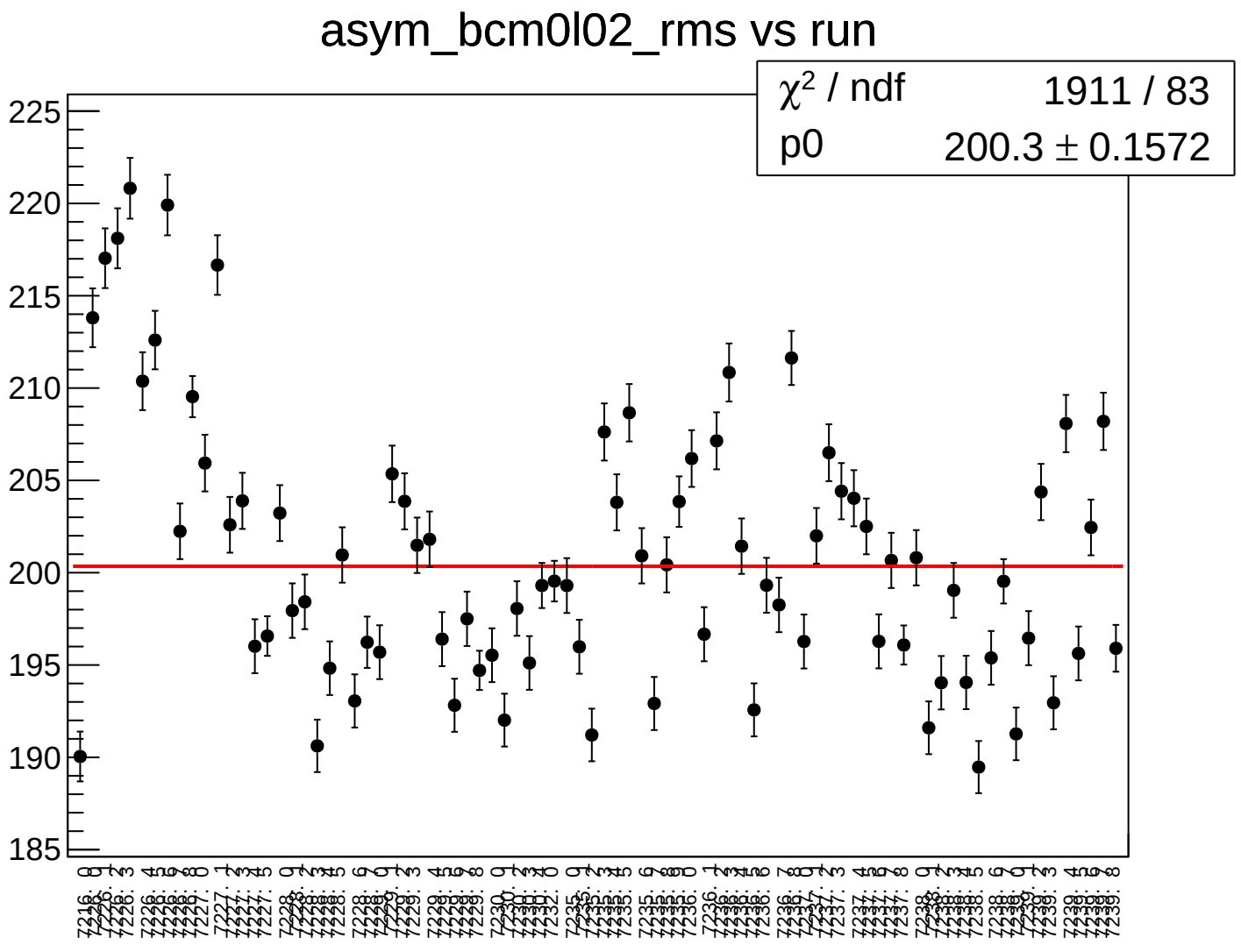

asym_cav4dQ_mean vs run
χ² / ndf 75.67 / 83
p0 173.2 ± 375.7
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −114.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

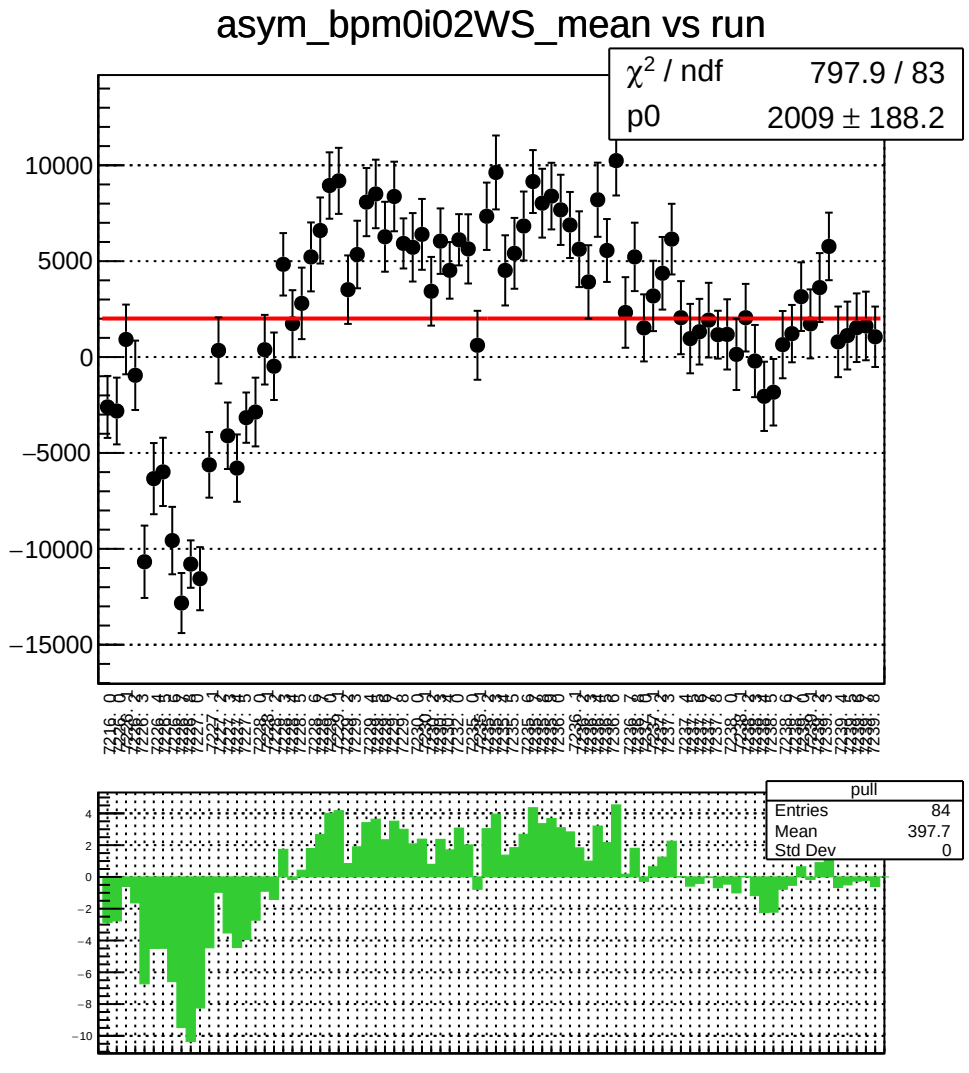

pull1D
Entries 84
Mean −0.008107
Std Dev 0.9491
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

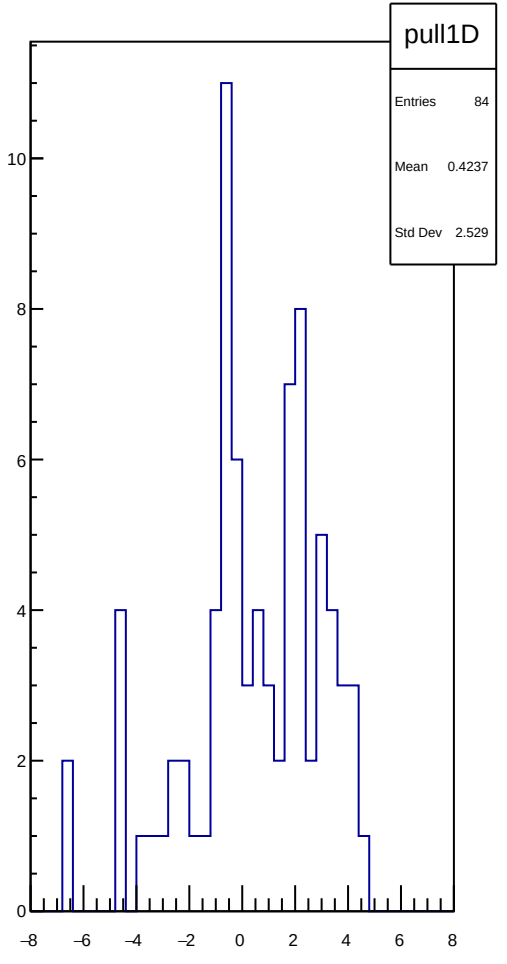

asym_cav4dQ_rms vs run
χ² / ndf 461 / 83
p0 338.8 ± 0.2657
355
350
345
340
335
330
325

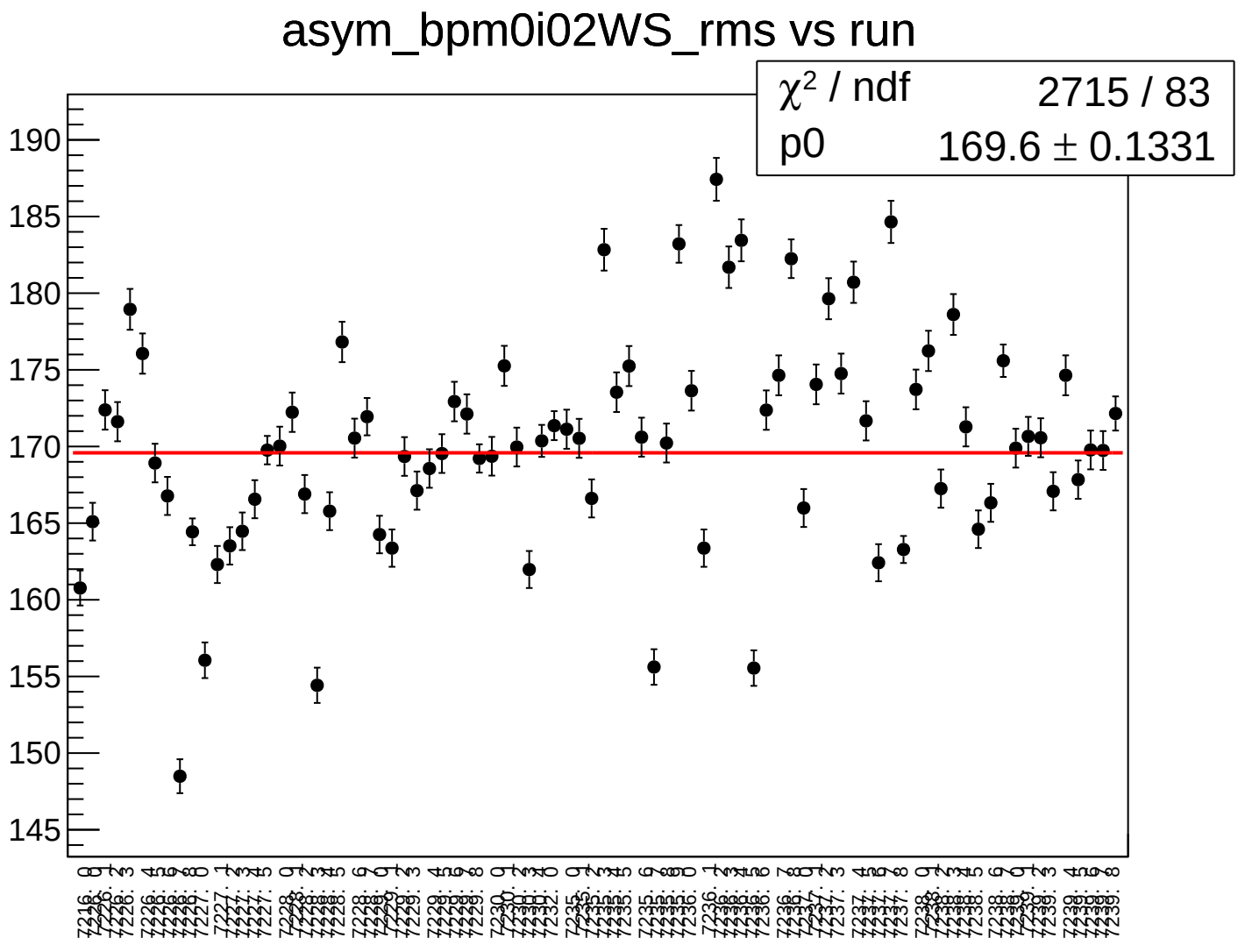

asym_bcm0l02_mean vs run
χ² / ndf 77.09 / 83
p0 2069 ± 222.3
pull
Entries 84
Mean −420
Std Dev 0

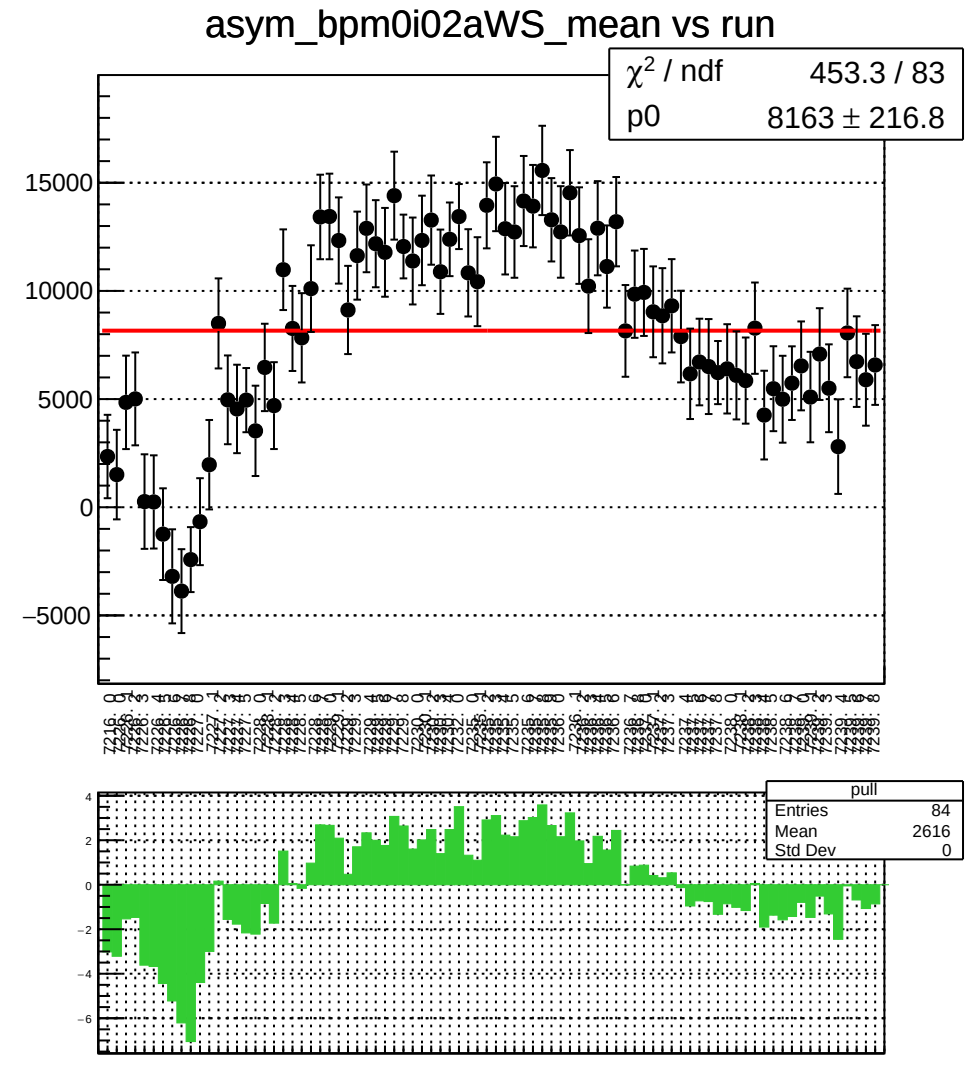

pull1D
Entries 84
Mean 0.0005939
Std Dev 0.958

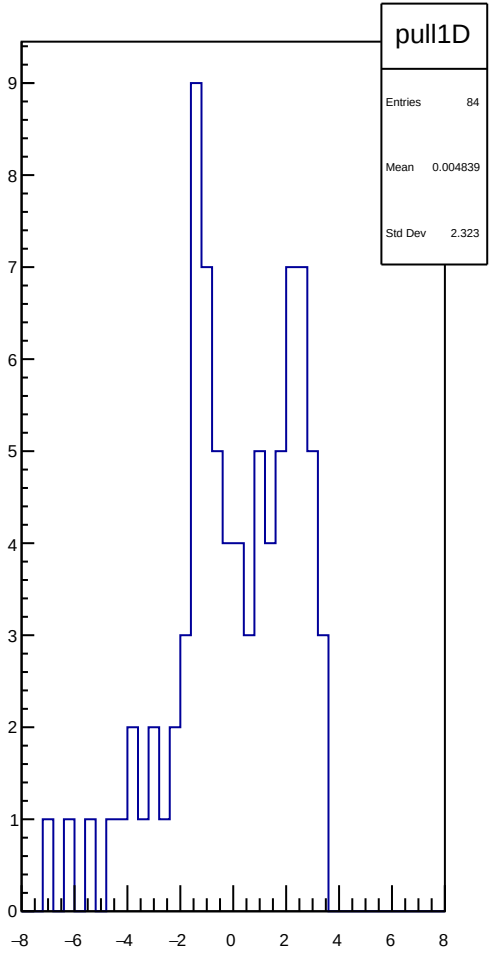

asym_bcm0l02_rms vs run
χ² / ndf 1911 / 83
p0 200.3 ± 0.1572
225
220
215
210
205
200
195
190
185

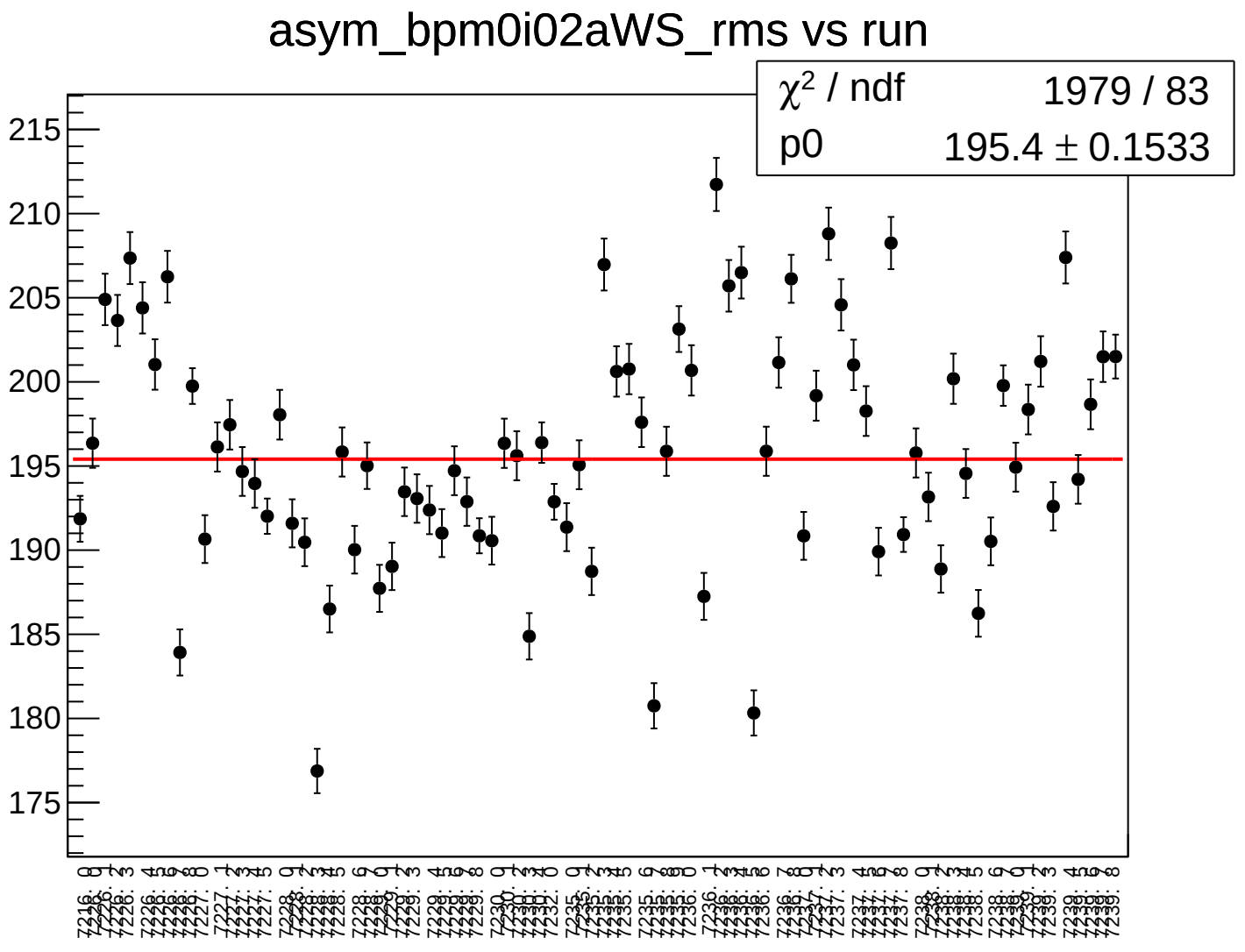

asym_bpm0i02WS_mean vs run
χ² / ndf 797.9 / 83
p0 2009 ± 188.2
pull
Entries 84
Mean 397.7
Std Dev 0

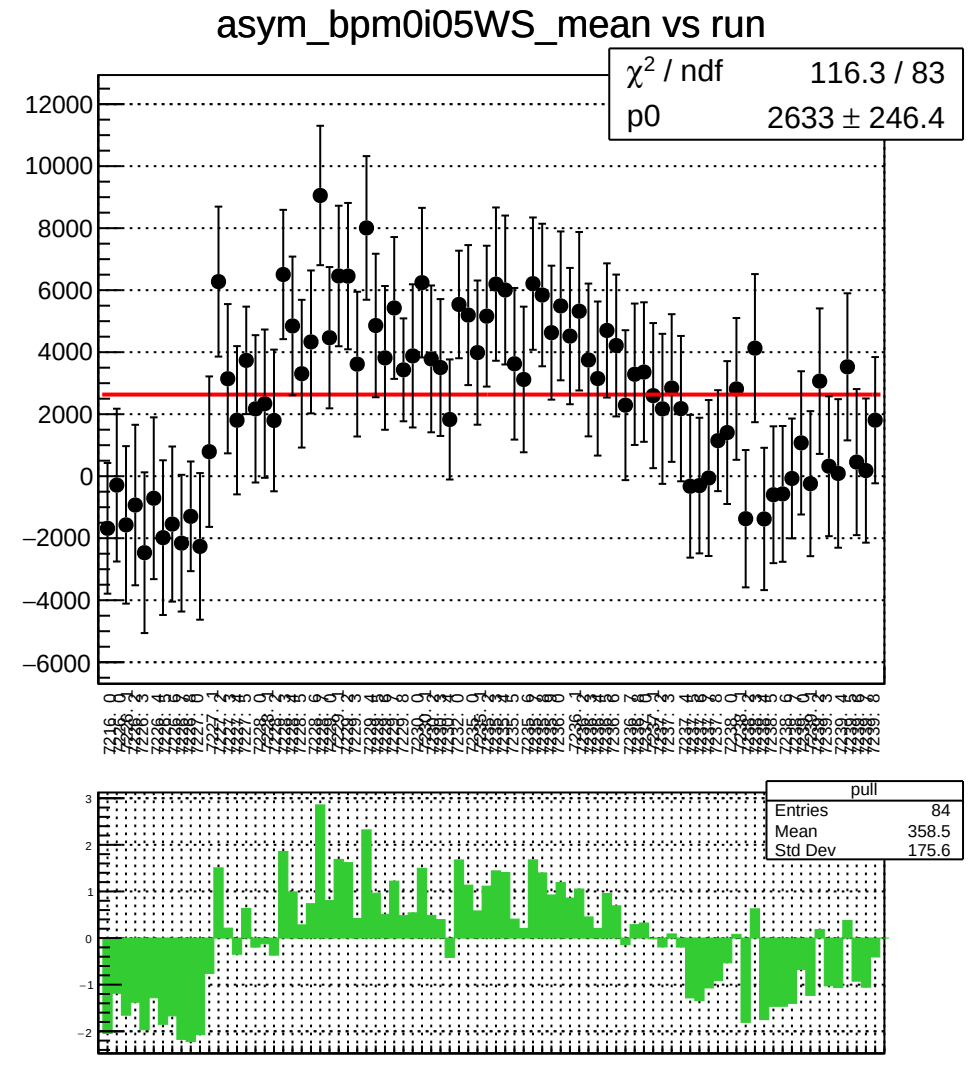

pull1D
Entries 84
Mean 0.4237
Std Dev 2.529

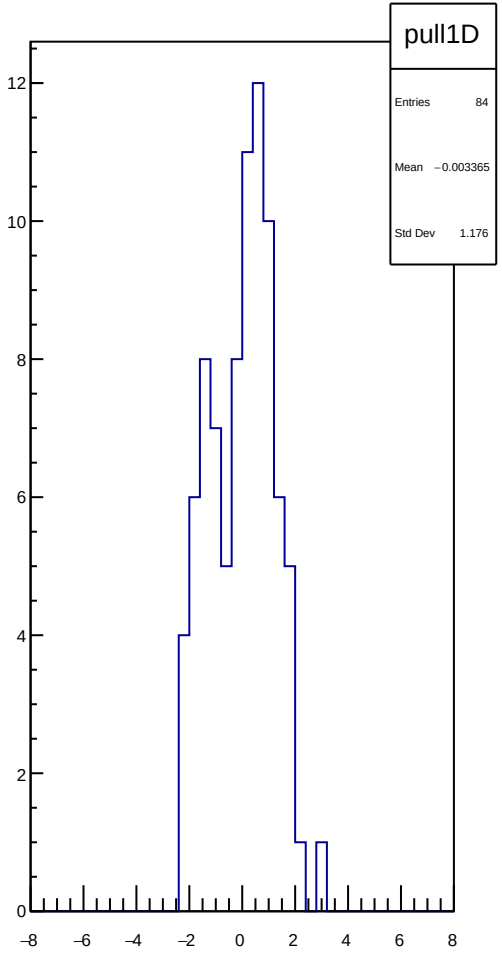

asym_bpm0i02WS_rms vs run
χ² / ndf 2715 / 83
p0 169.6 ± 0.1331
190
185
180
175
170
165
160
155
150
145

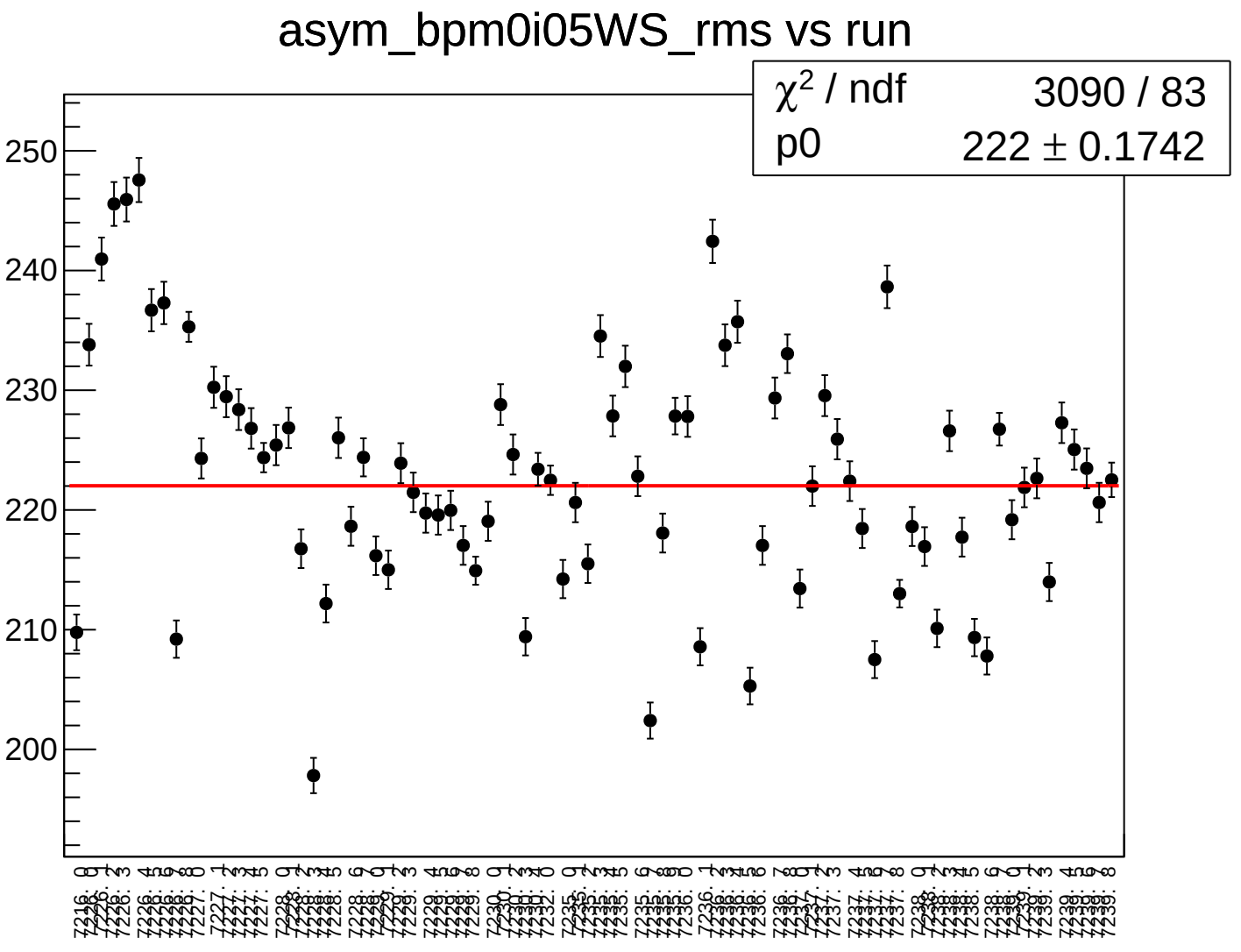

asym_bpm0i02aWS_mean vs run
χ² / ndf 453.3 / 83
p0 8163 ± 216.8
15000
10000
5000
0
−5000
pull
Entries 84
Mean 2616
Std Dev 0
4
2
0
−2
−4
−6

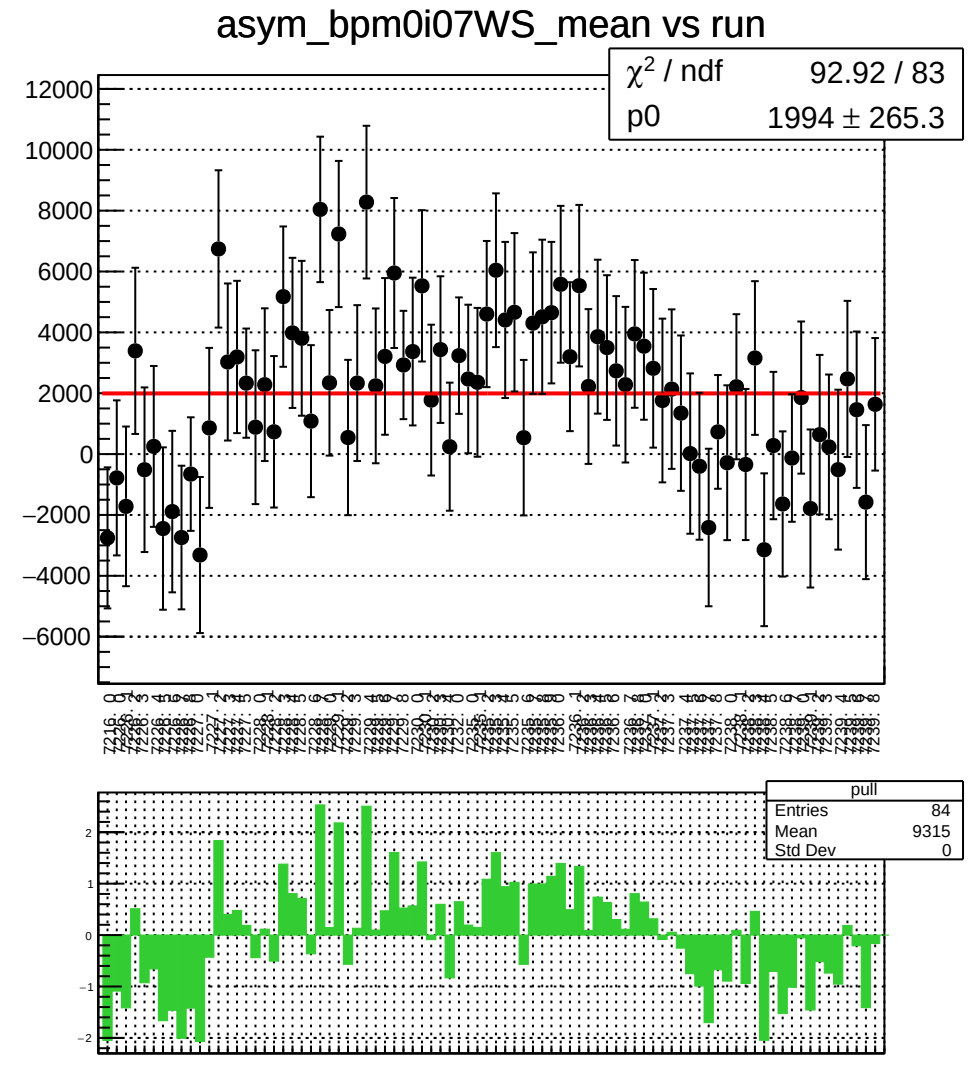

pull1D
Entries 84
Mean 0.004839
Std Dev 2.323
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

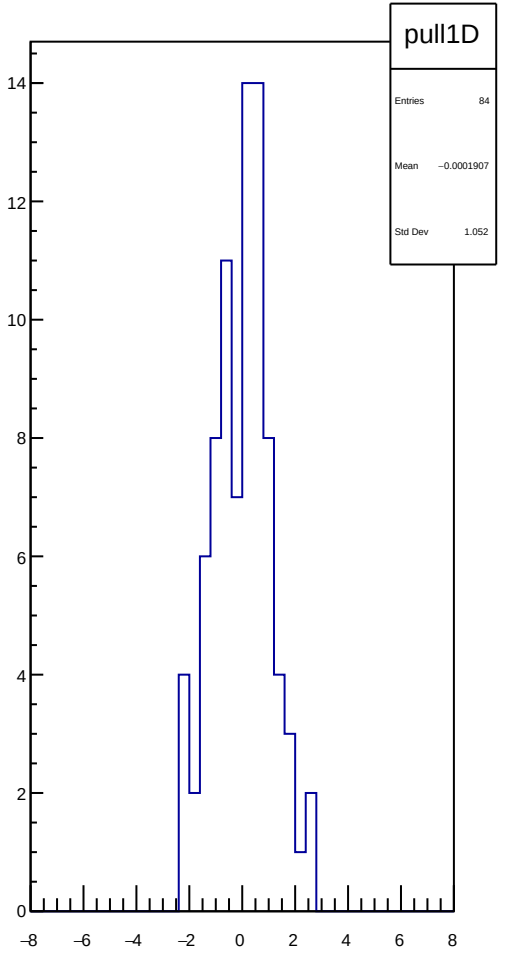

asym_bpm0i02aWS_rms vs run
χ^2 / ndf 1979 / 83
p0 195.4 ± 0.1533
215
210
205
200
195
190
185
180
175

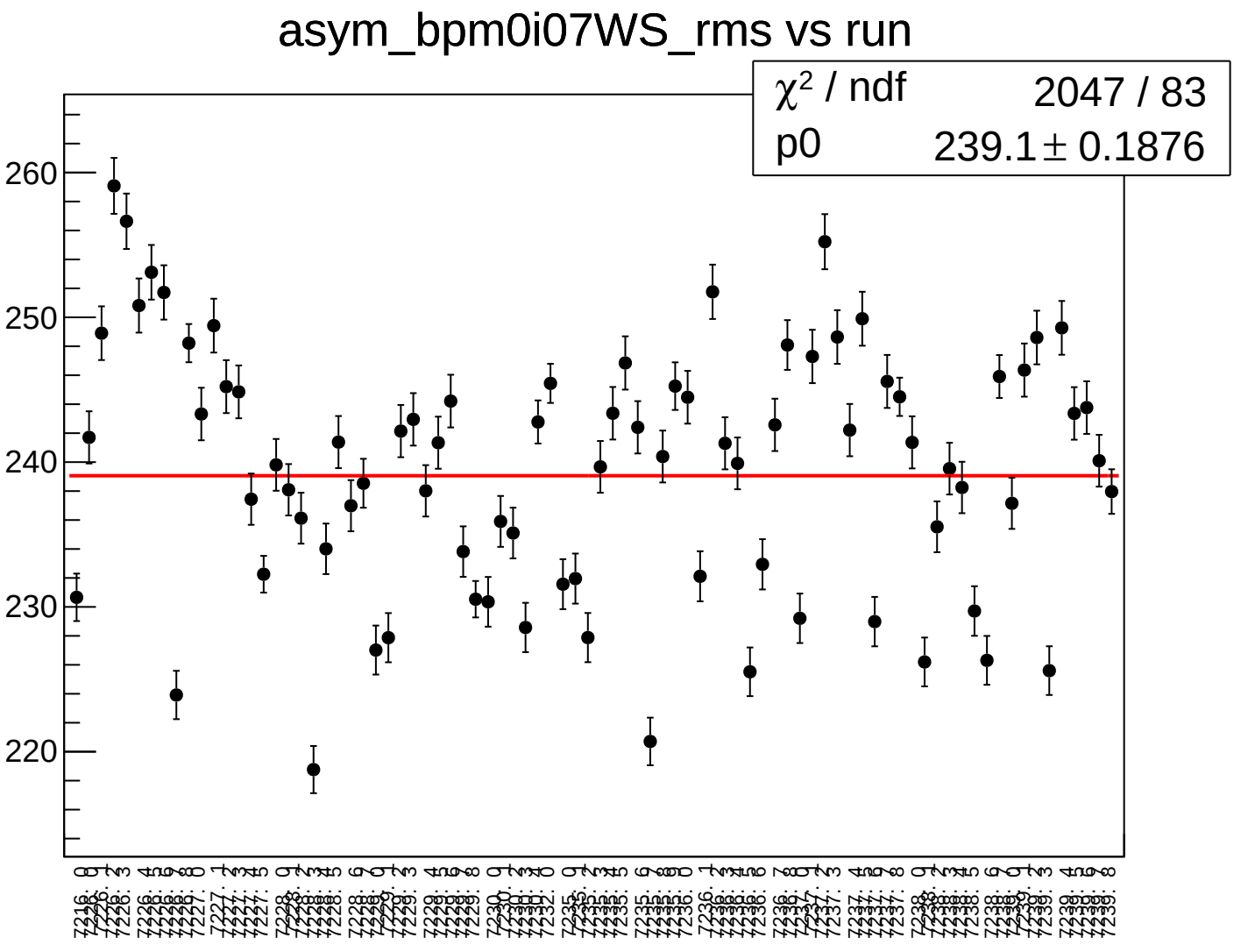

asym_bpm0i05WS_mean vs run
χ² / ndf 116.3 / 83
p0 2633 ± 246.4
pull
Entries 84
Mean 358.5
Std Dev 175.6

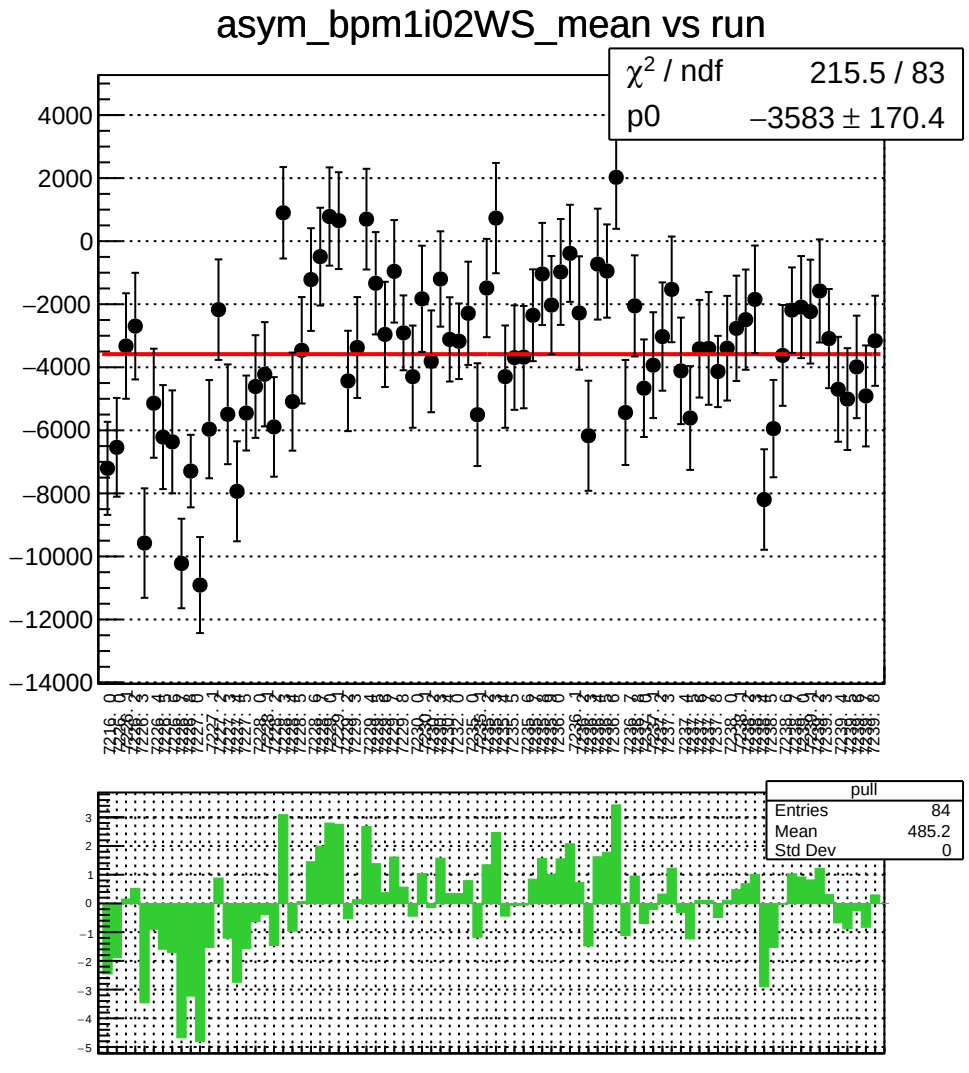

pull1D
Entries 84
Mean −0.003365
Std Dev 1.176

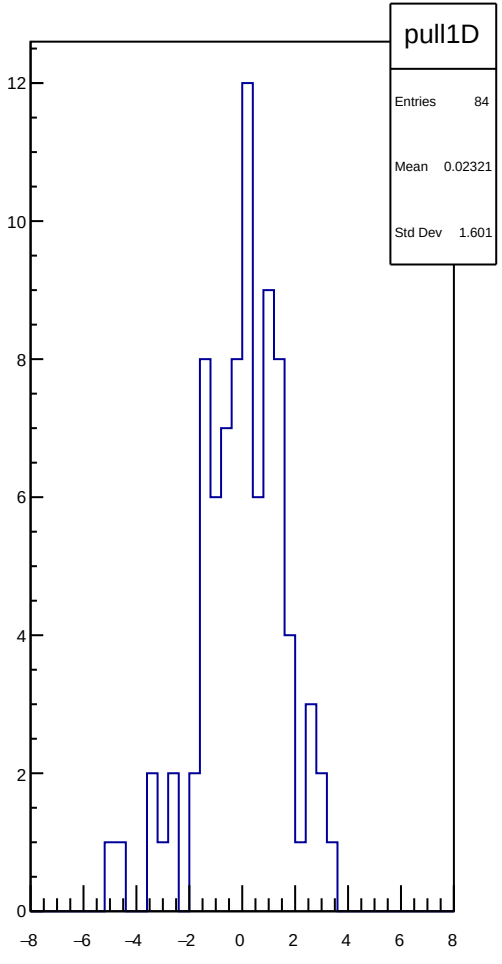

asym_bpm0i05WS_rms vs run
χ² / ndf 3090 / 83
p0 222 ± 0.1742
250
240
230
220
210
200

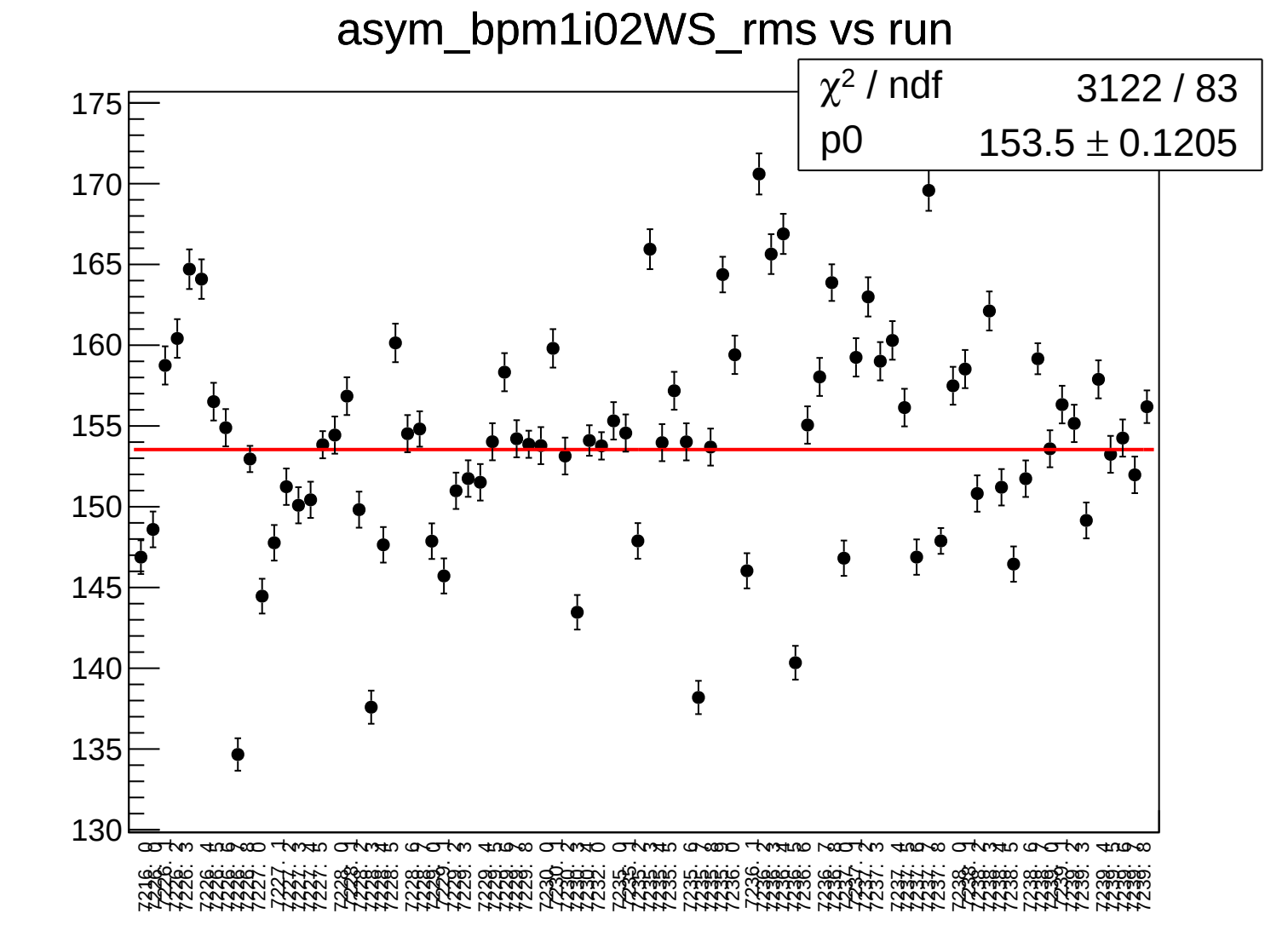

asym_bpm0i07WS_mean vs run
χ² / ndf 92.92 / 83
p0 1994 ± 265.3
pull
Entries 84
Mean 9315
Std Dev 0

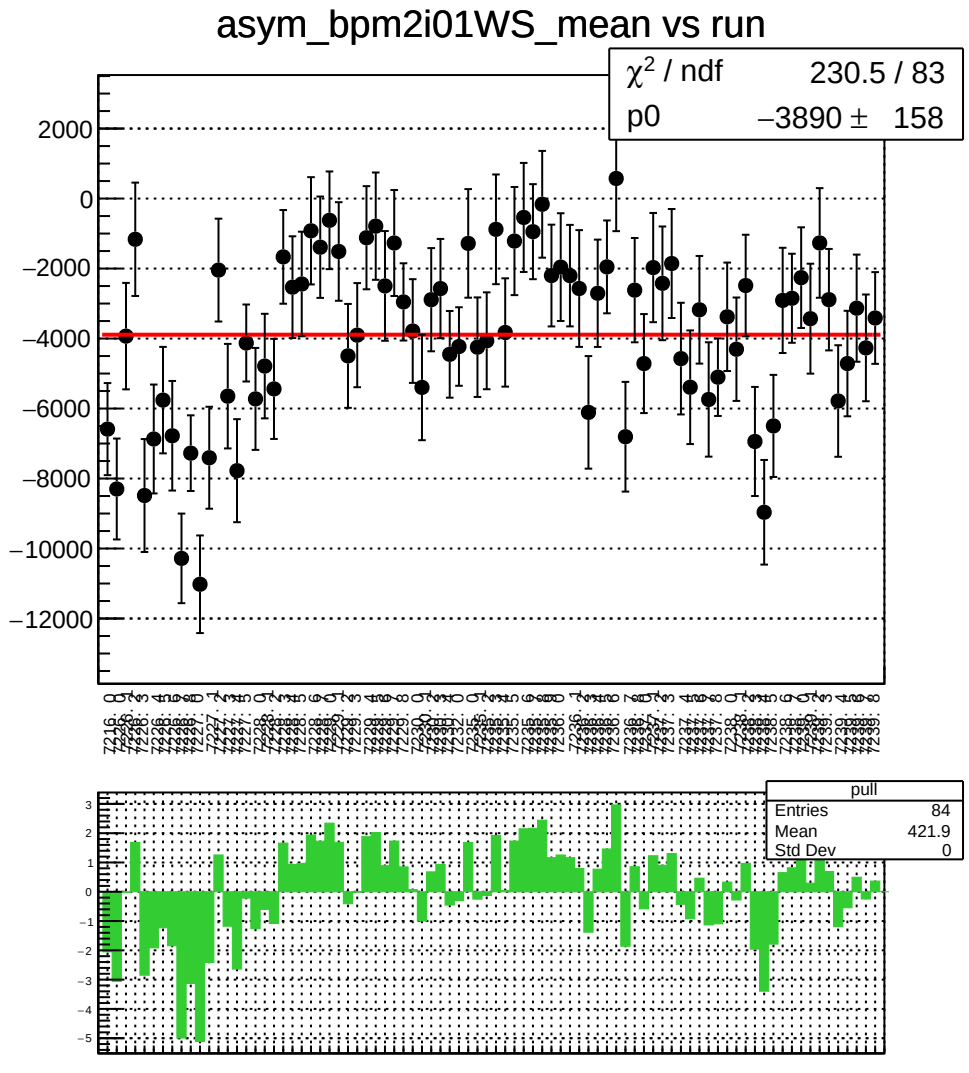

pull1D
Entries 84
Mean −0.0001907
Std Dev 1.052

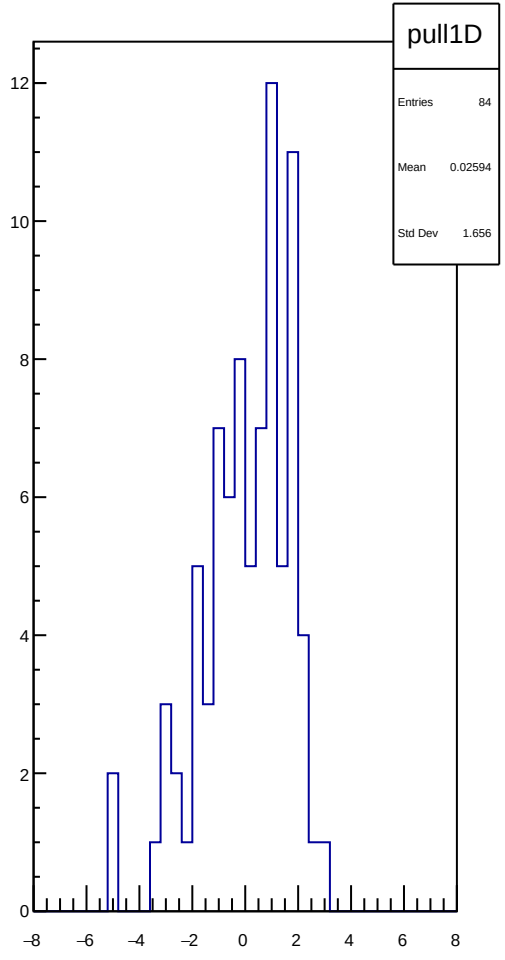

asym_bpm0i07WS_rms vs run
χ² / ndf 2047 / 83
p0 239.1 ± 0.1876
260
250
240
230
220

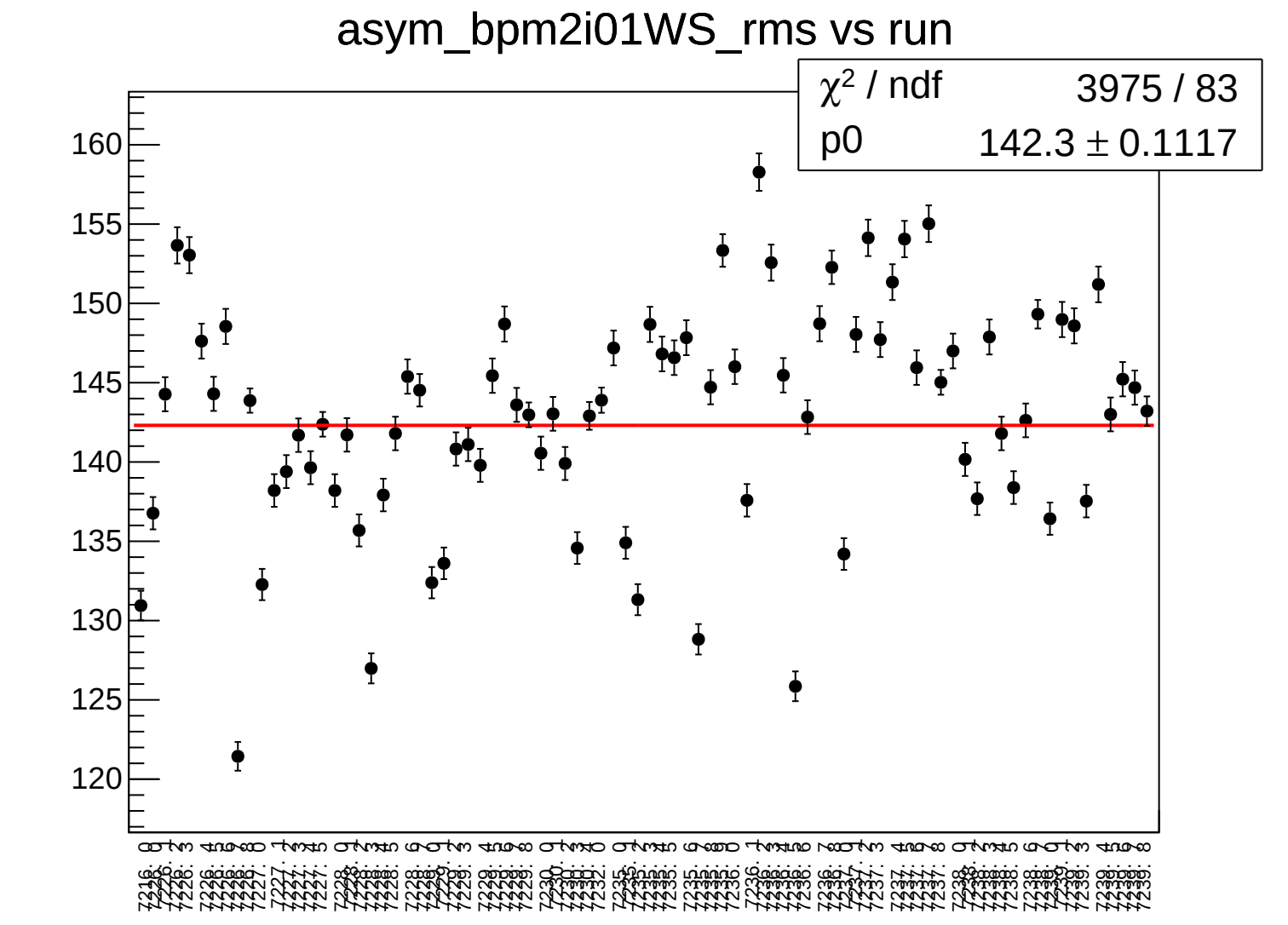

asym_bpm1i02WS_mean vs run
χ² / ndf 215.5 / 83
p0 −3583 ± 170.4
pull
Entries 84
Mean 485.2
Std Dev 0

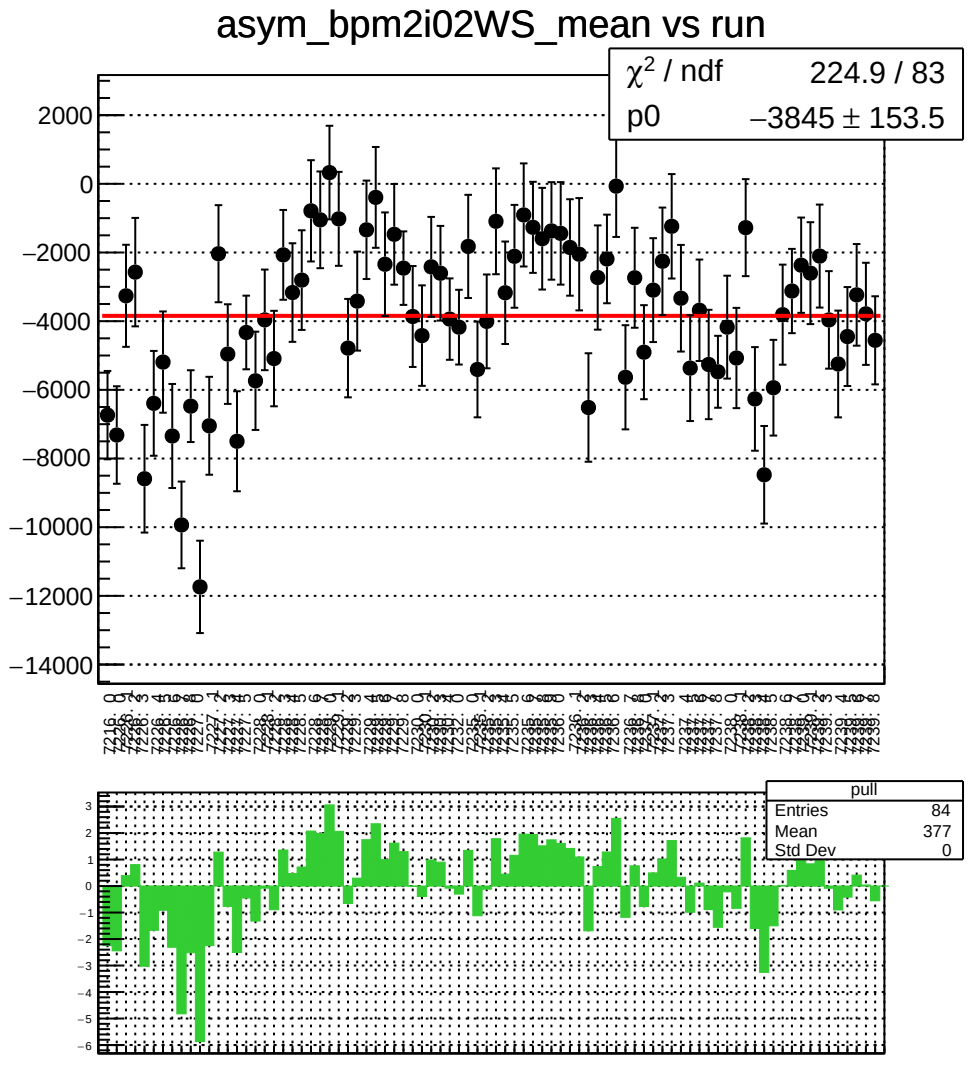

pull1D
Entries 84
Mean 0.02321
Std Dev 1.601

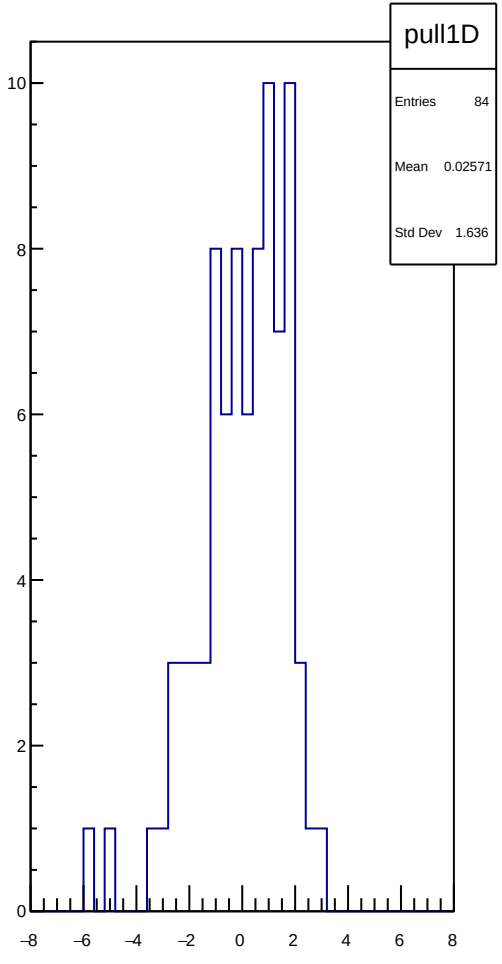

asym_bpm1i02WS_rms vs run
χ^2 / ndf 3122 / 83
p0 153.5 ± 0.1205
175
170
165
160
155
150
145
140
135
130

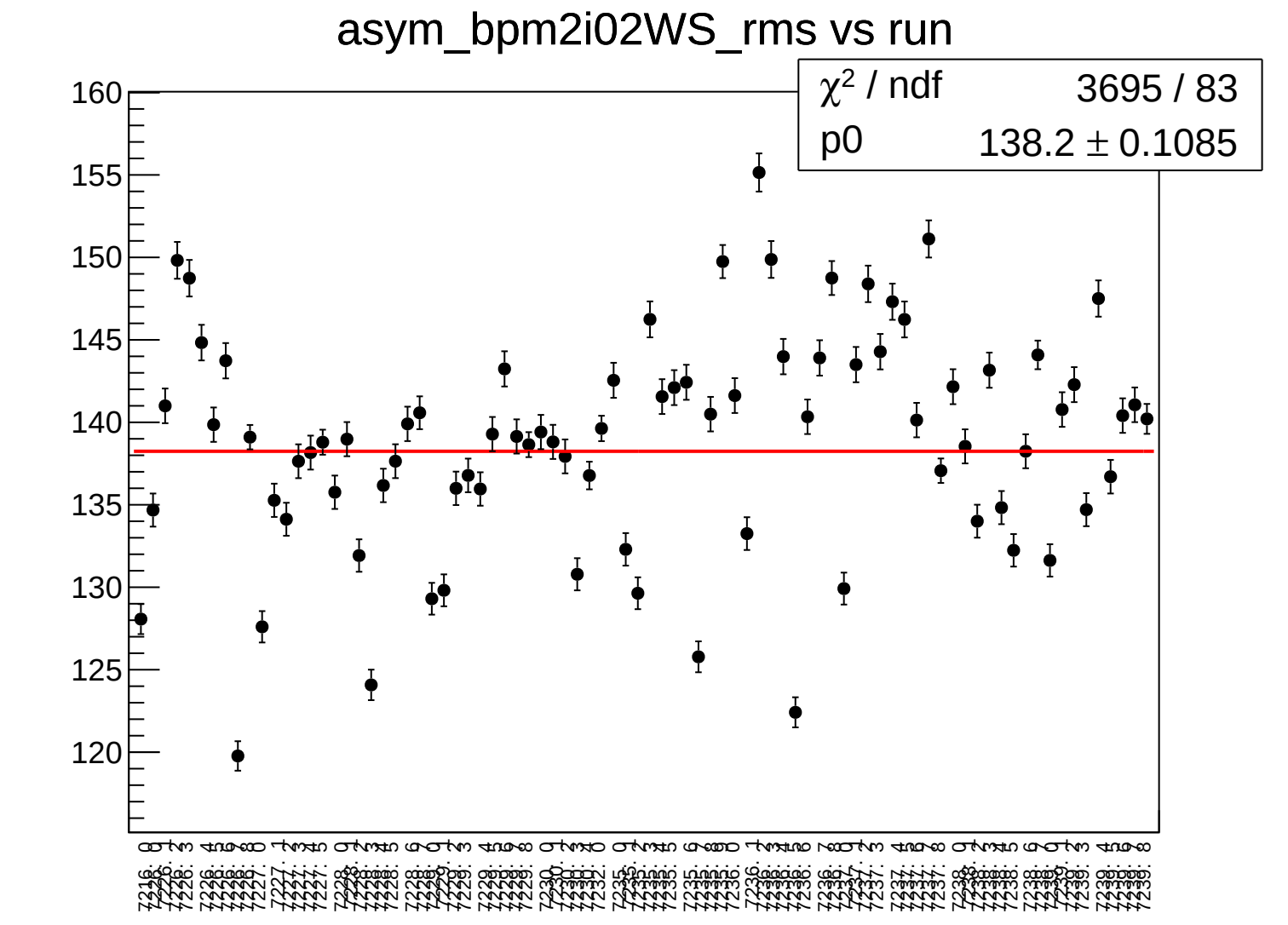

asym_bpm2i01WS_mean vs run
χ² / ndf 230.5 / 83
p0 −3890 ± 158
pull
Entries 84
Mean 421.9
Std Dev 0

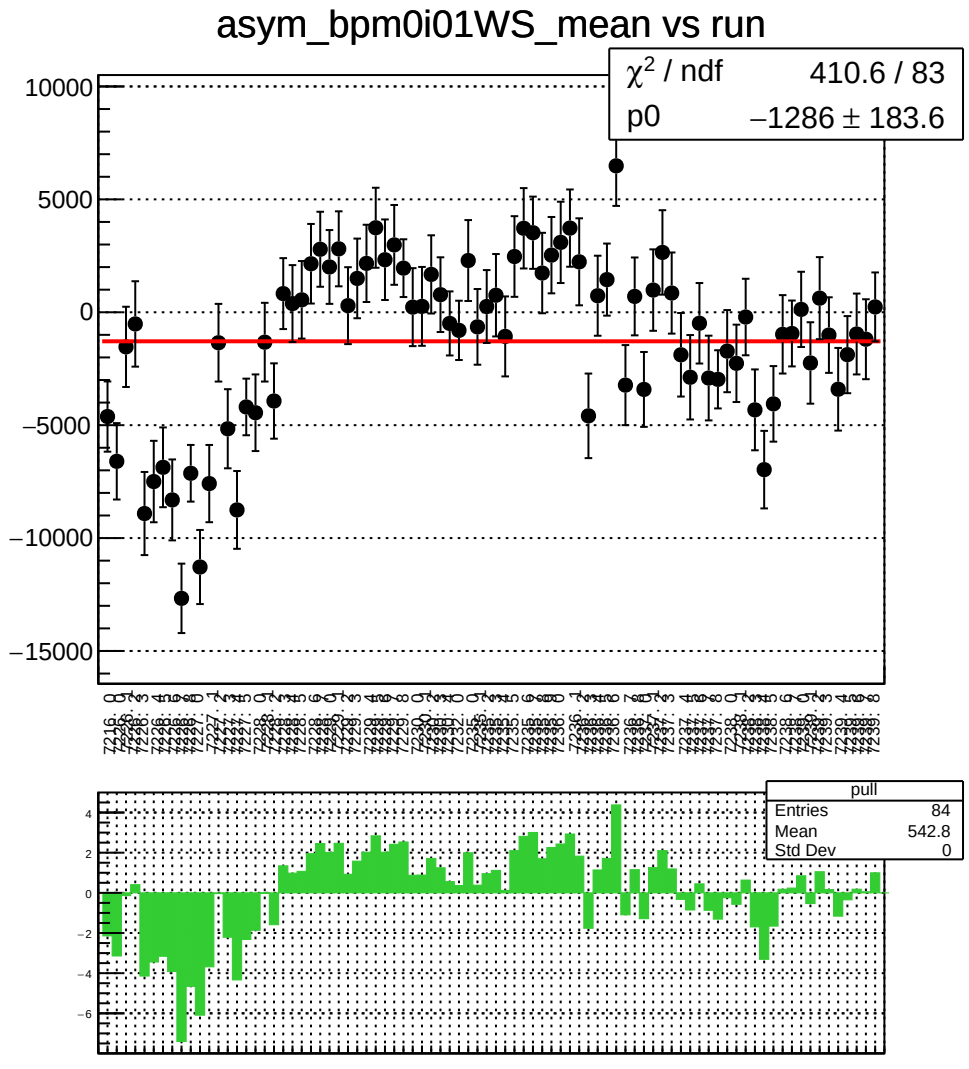

pull1D
Entries 84
Mean 0.02594
Std Dev 1.656

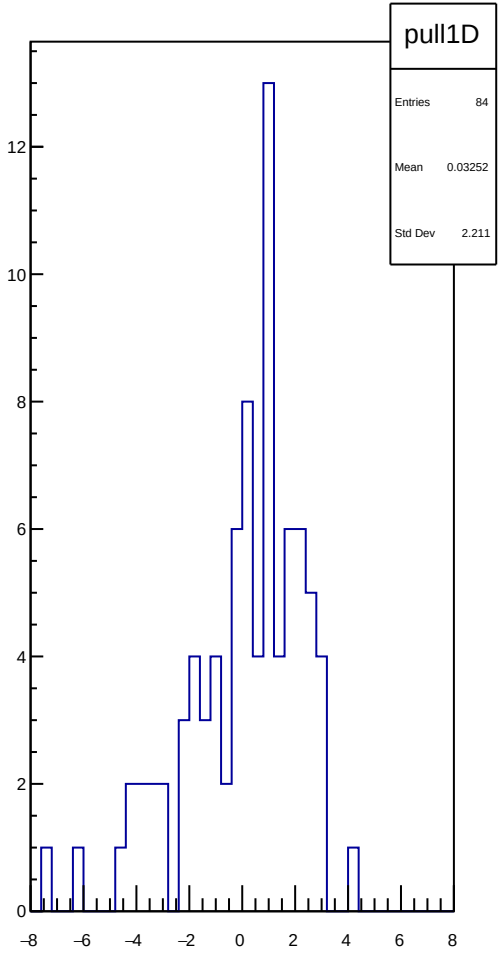

asym_bpm2i01WS_rms vs run
χ^2 / ndf 3975 / 83
p0 142.3 ± 0.1117
160
155
150
145
140
135
130
125
120

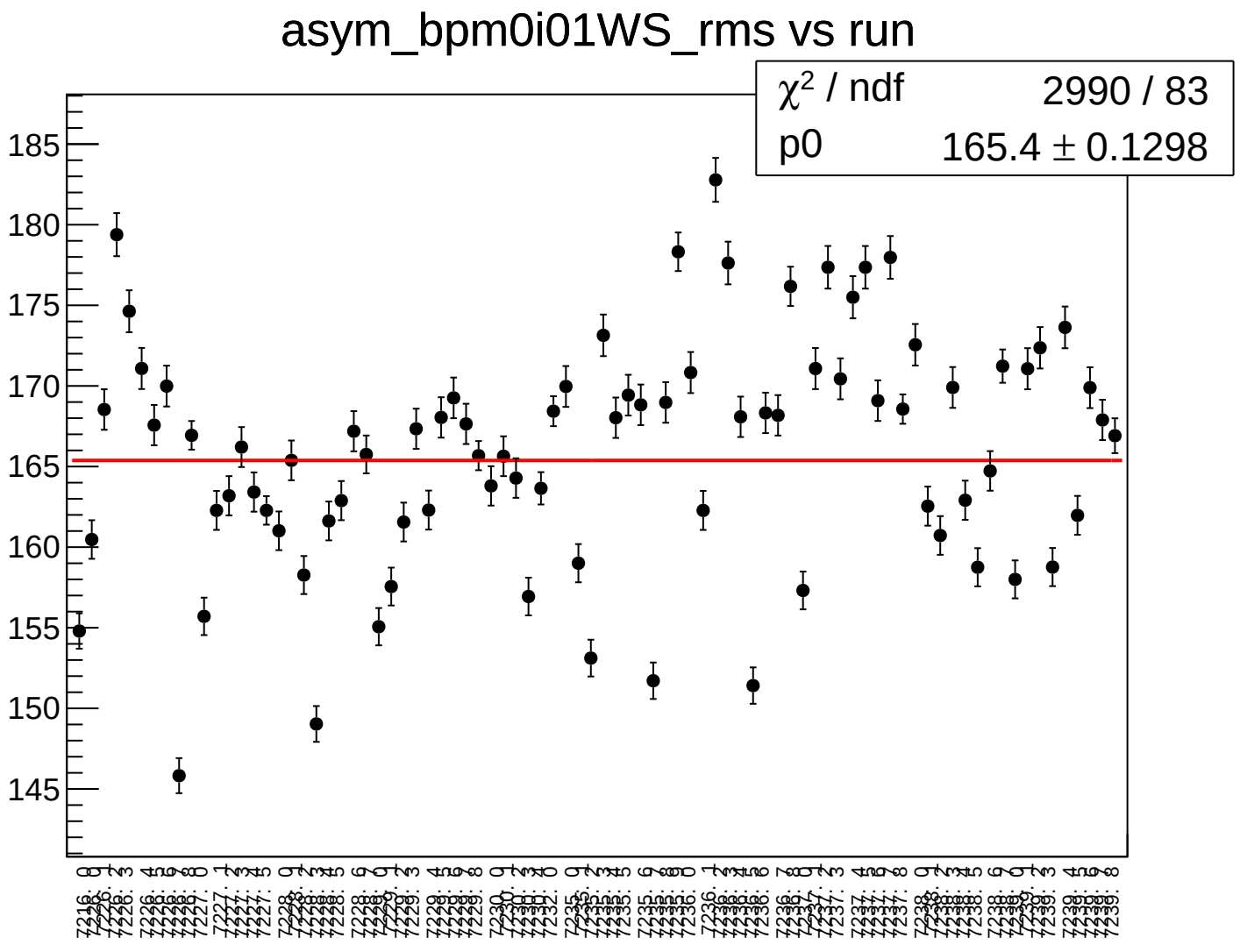

asym_bpm2i02WS_mean vs run
χ² / ndf 224.9 / 83
p0 −3845 ± 153.5
pull
Entries 84
Mean 377
Std Dev 0

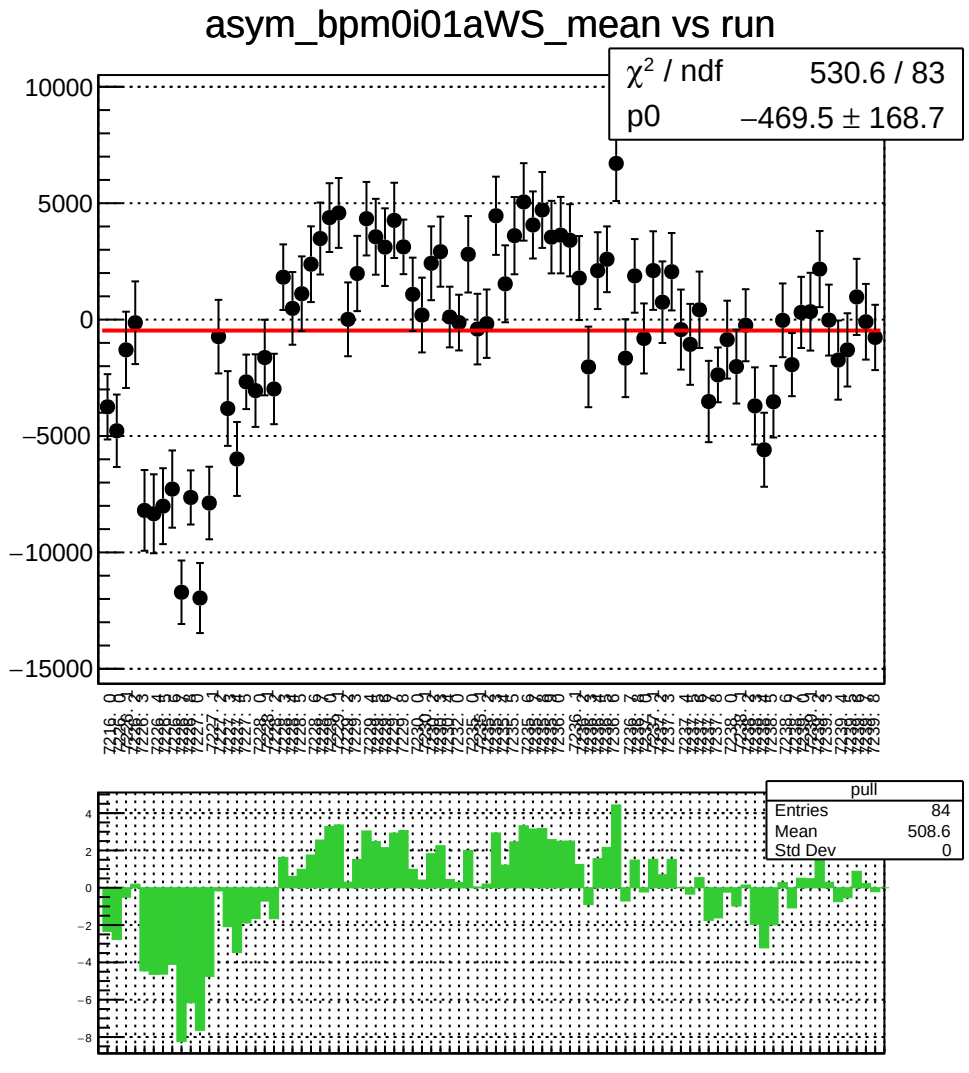

pull1D
Entries 84
Mean 0.02571
Std Dev 1.636

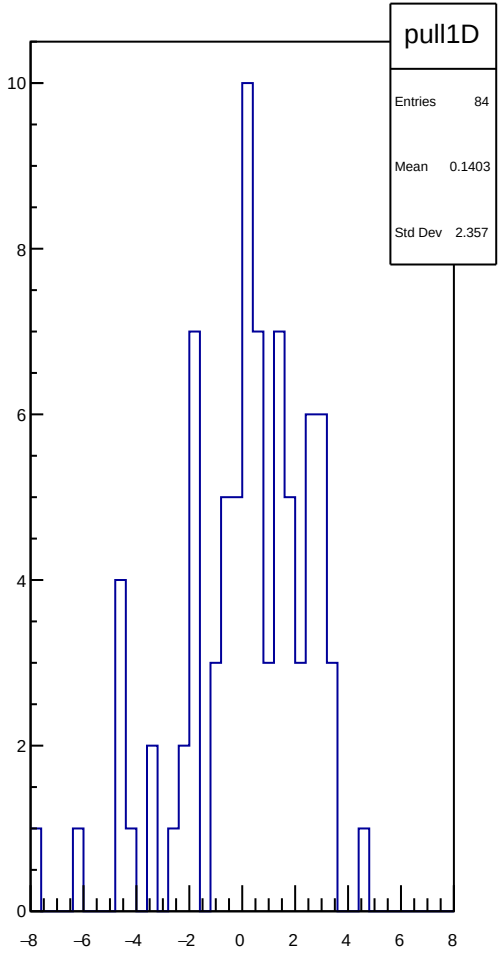

asym_bpm2i02WS_rms vs run
χ^2 / ndf 3695 / 83
p0 138.2 ± 0.1085
160
155
150
145
140
135
130
125
120

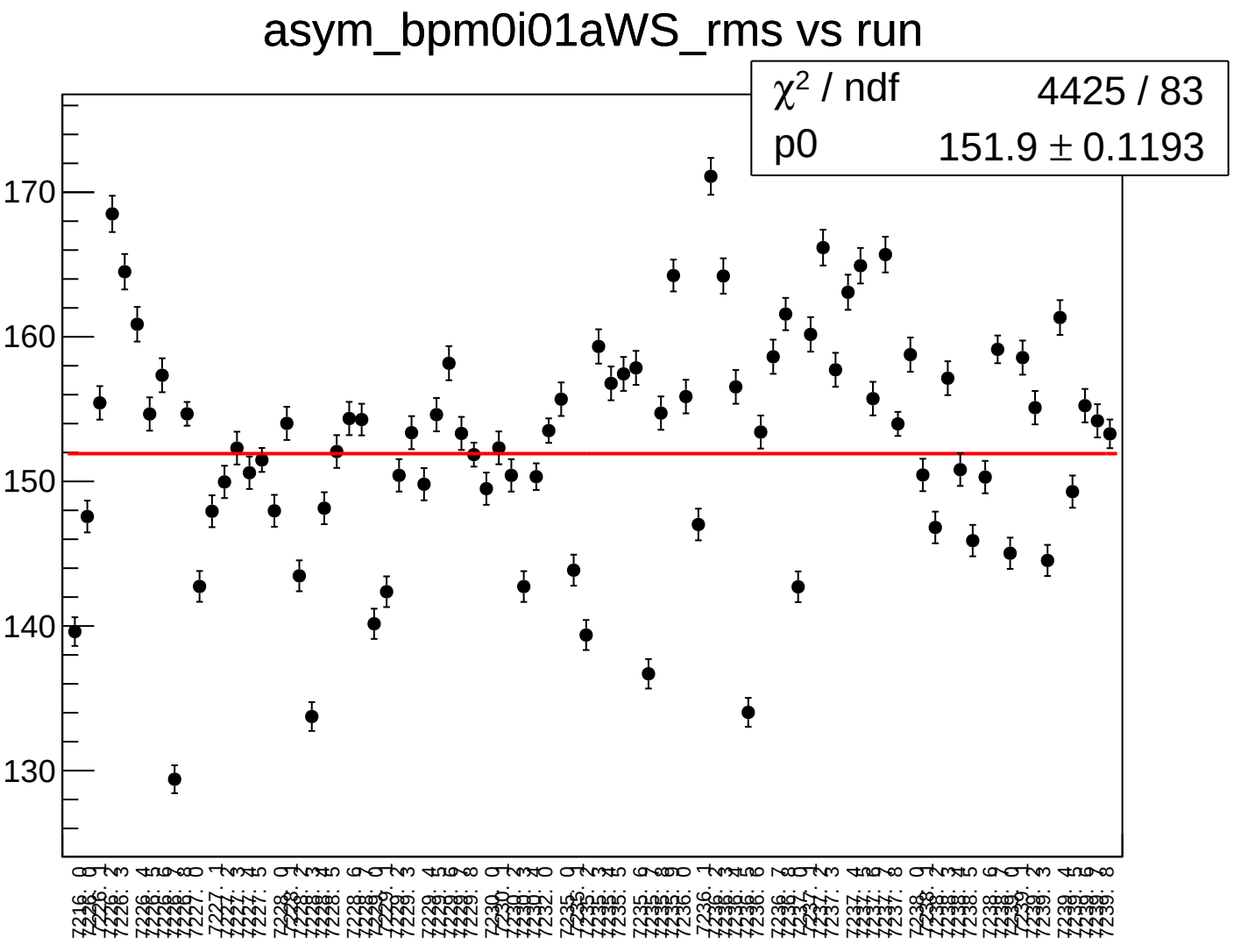

asym_bpm0i01WS_mean vs run
χ² / ndf 410.6 / 83
p0 −1286 ± 183.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 542.8
Std Dev 0
4
2
0
−2
−4
−6

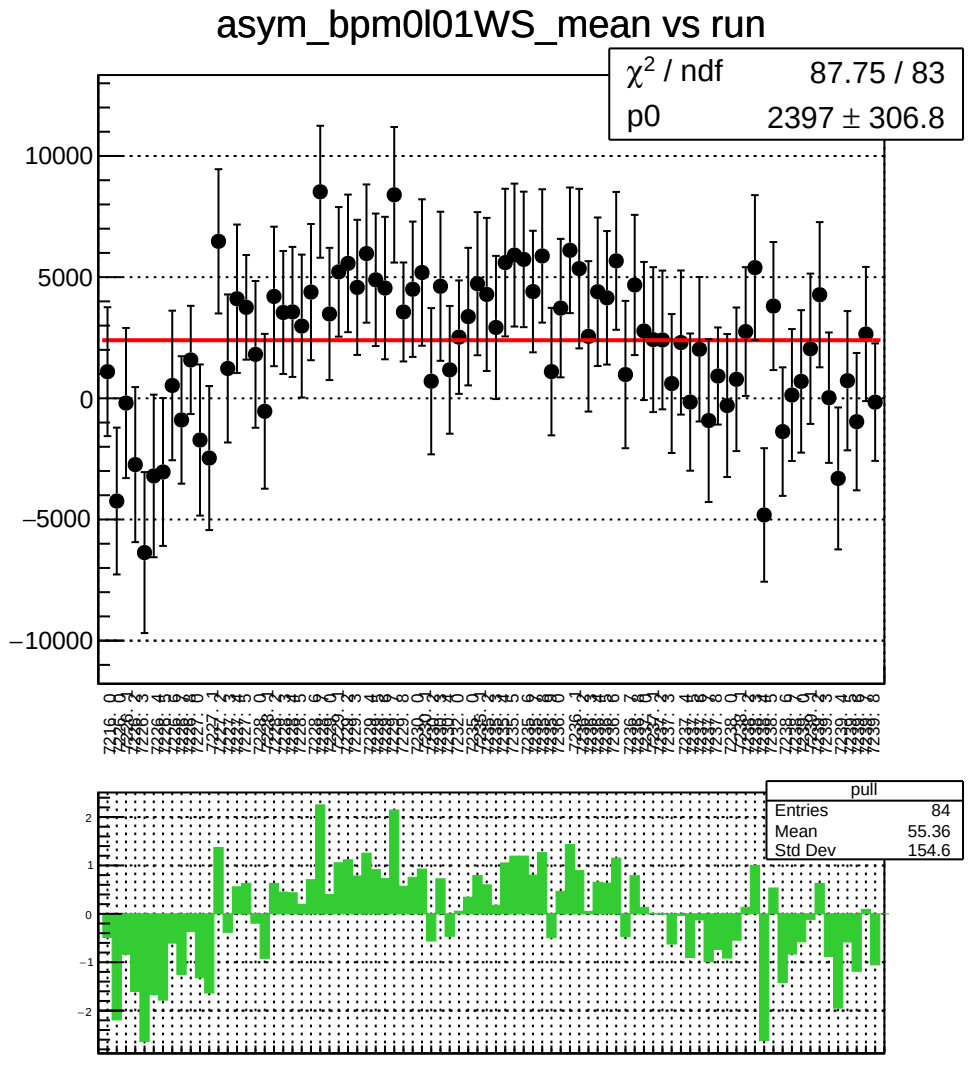

pull1D
Entries 84
Mean 0.03252
Std Dev 2.211
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

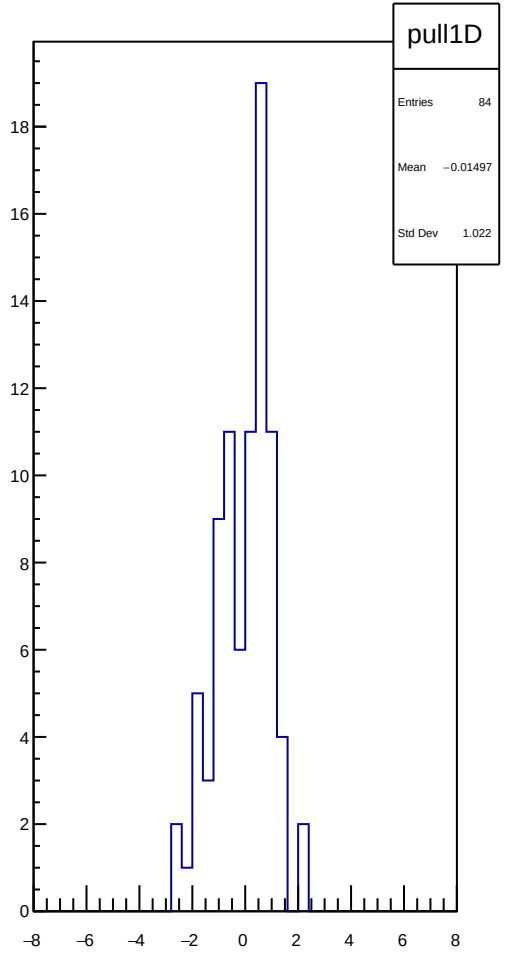

asym_bpm0i01WS_rms vs run
χ² / ndf 2990 / 83
p0 165.4 ± 0.1298
185
180
175
170
165
160
155
150
145

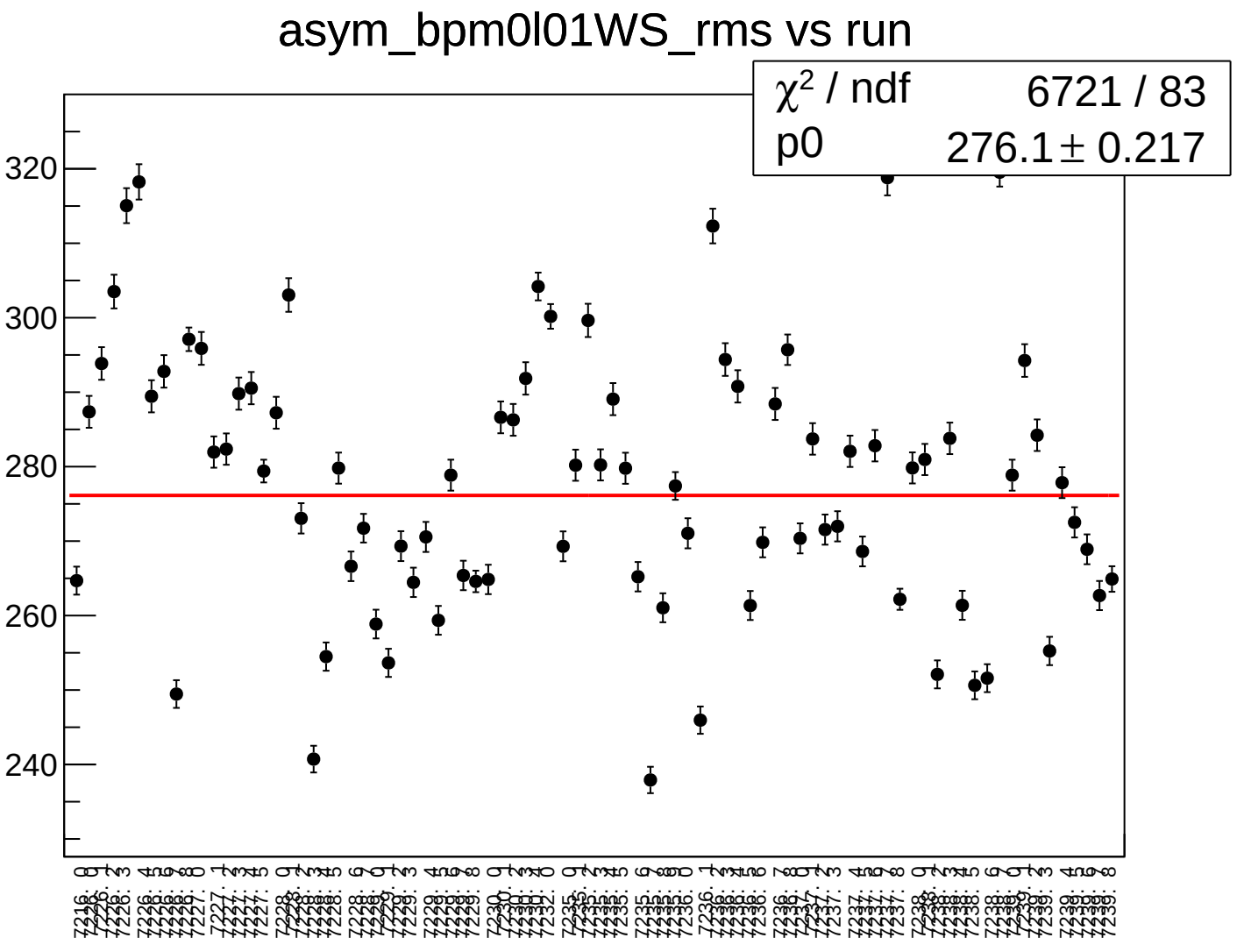

asym_bpm0i01aWS_mean vs run
χ² / ndf 530.6 / 83
p0 −469.5 ± 168.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 508.6
Std Dev 0
4
2
0
−2
−4
−6
−8

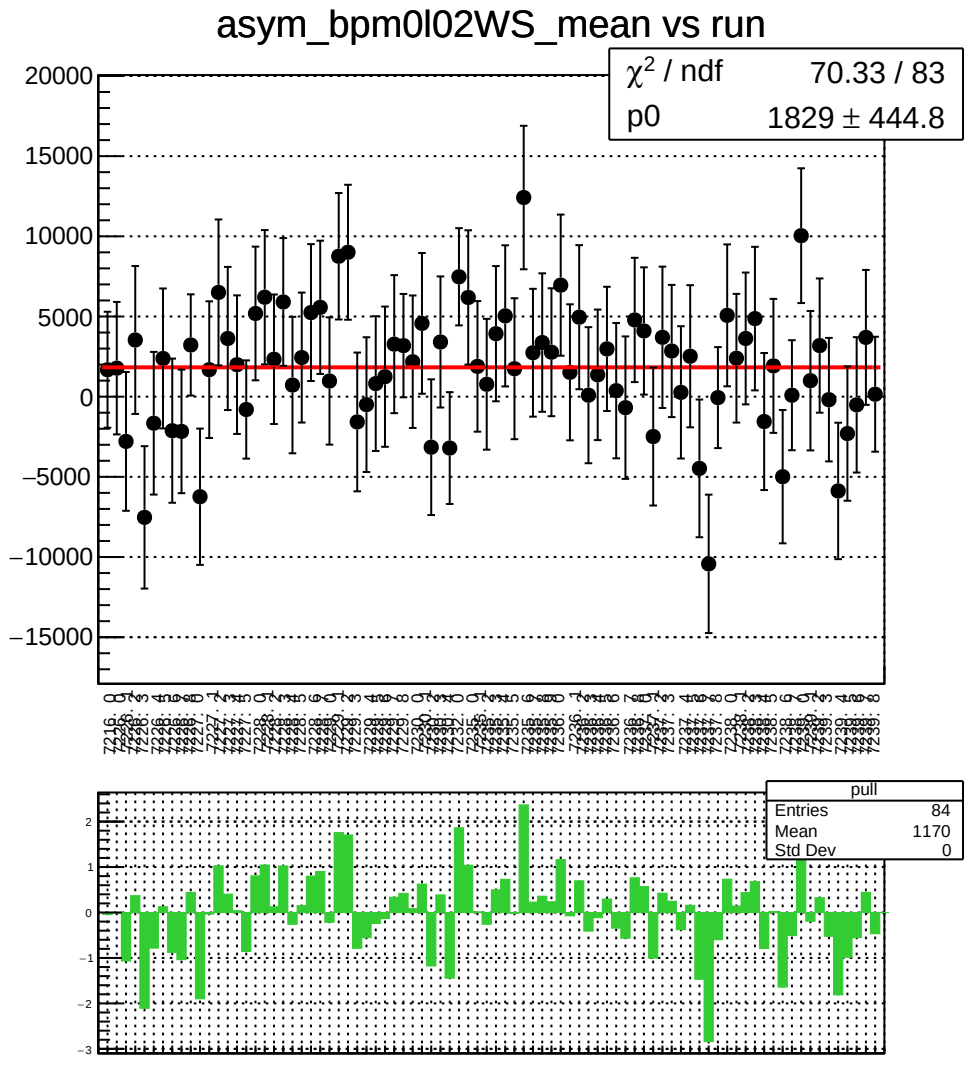

pull1D
Entries 84
Mean 0.1403
Std Dev 2.357
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

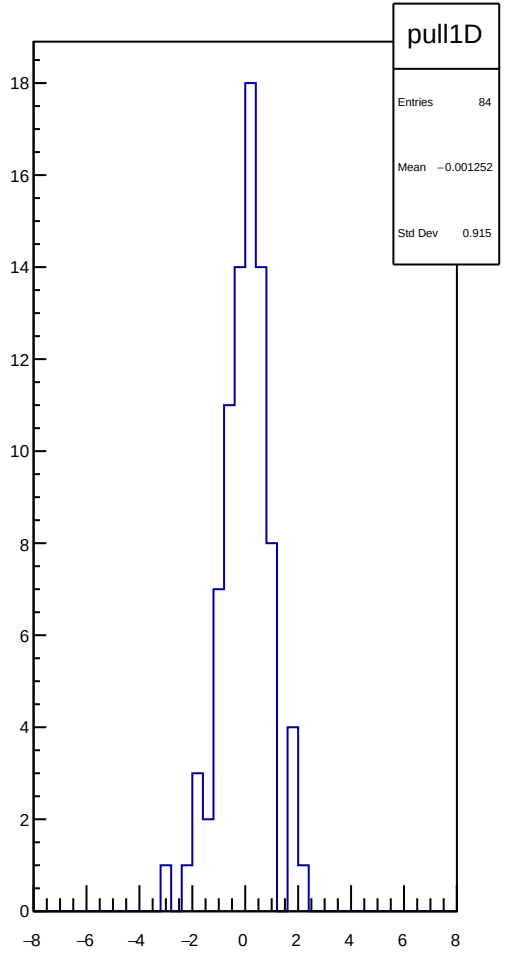

asym_bpm0i01aWS_rms vs run
χ^2 / ndf 4425 / 83
p0 151.9 ± 0.1193
170
160
150
140
130

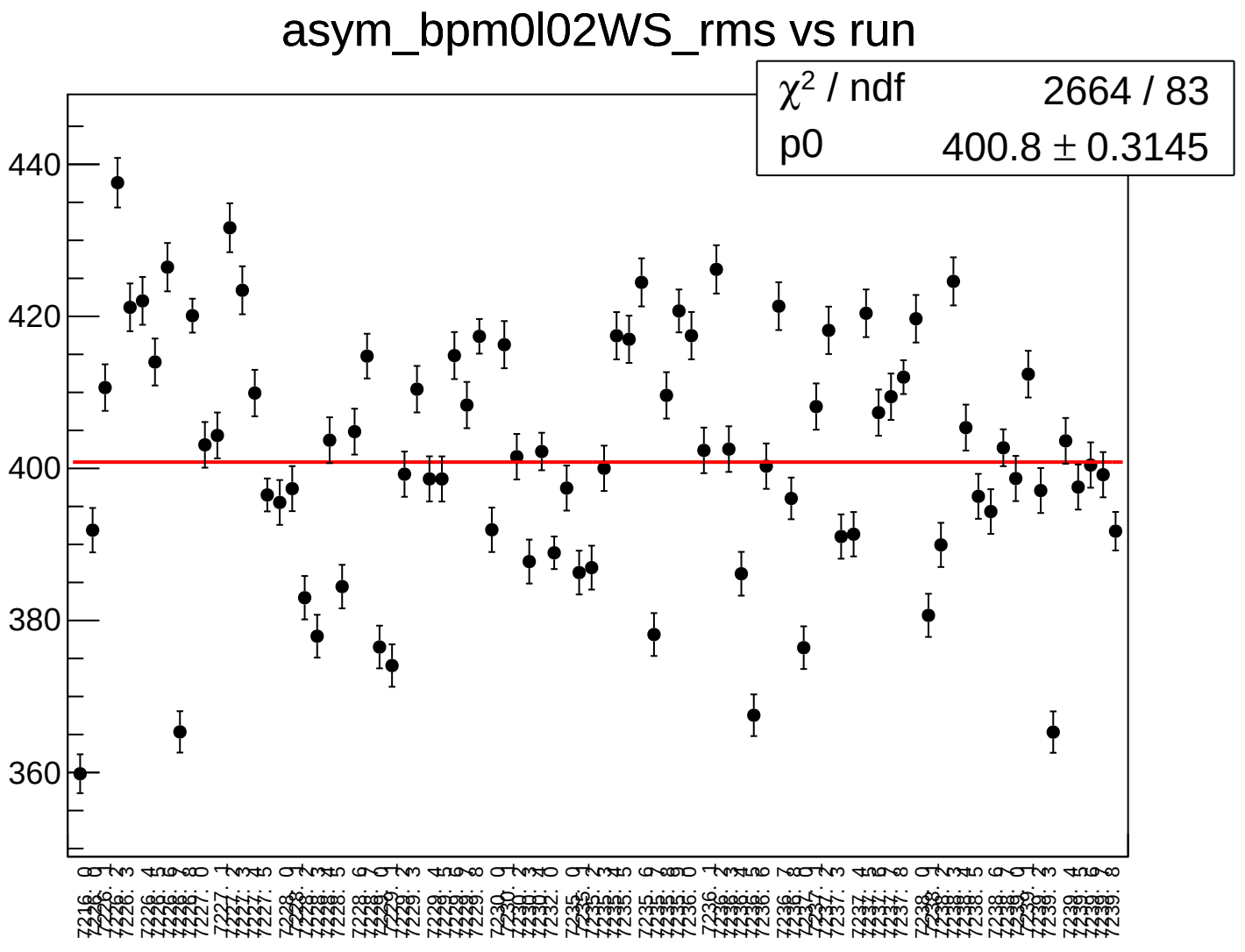

asym_bpm0l01WS_mean vs run
χ² / ndf 87.75 / 83
p0 2397 ± 306.8
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 55.36
Std Dev 154.6
2
1
0
−1
−2

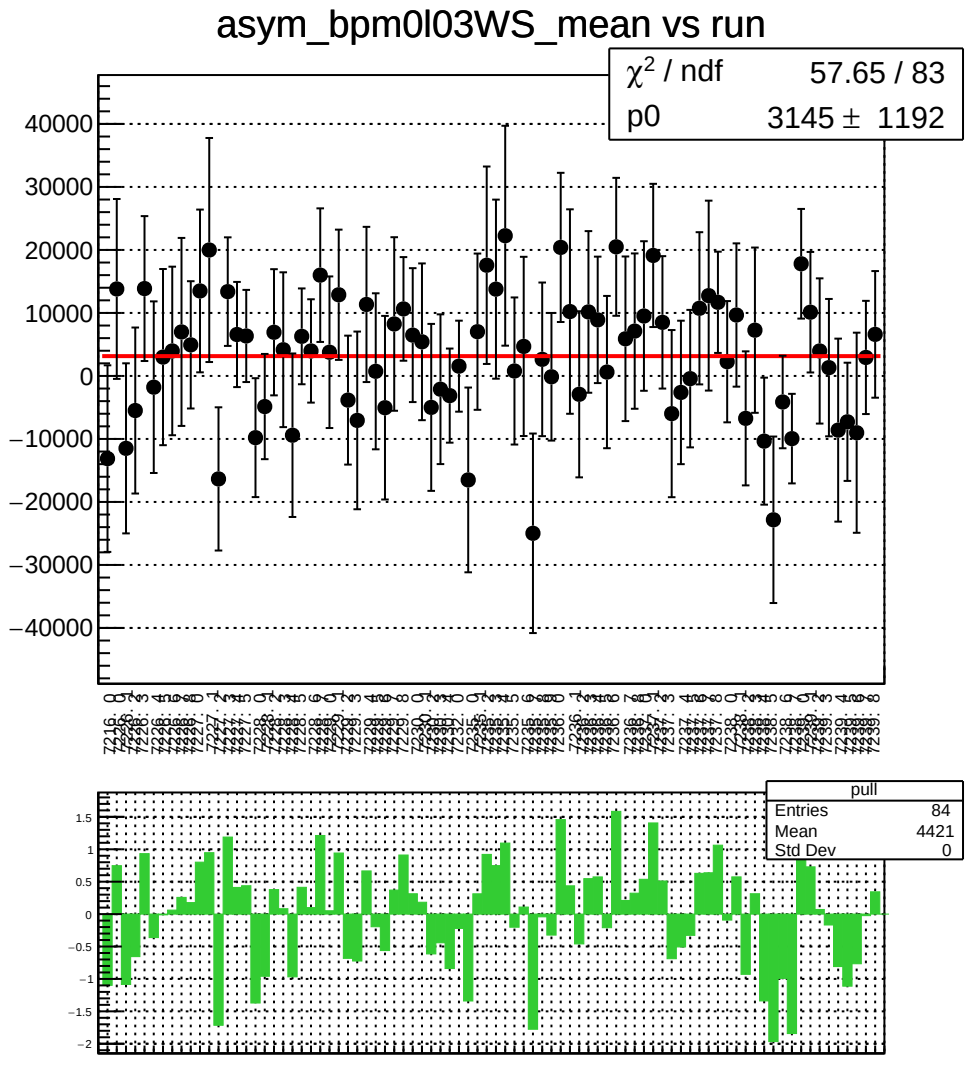

pull1D
Entries 84
Mean −0.01497
Std Dev 1.022
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

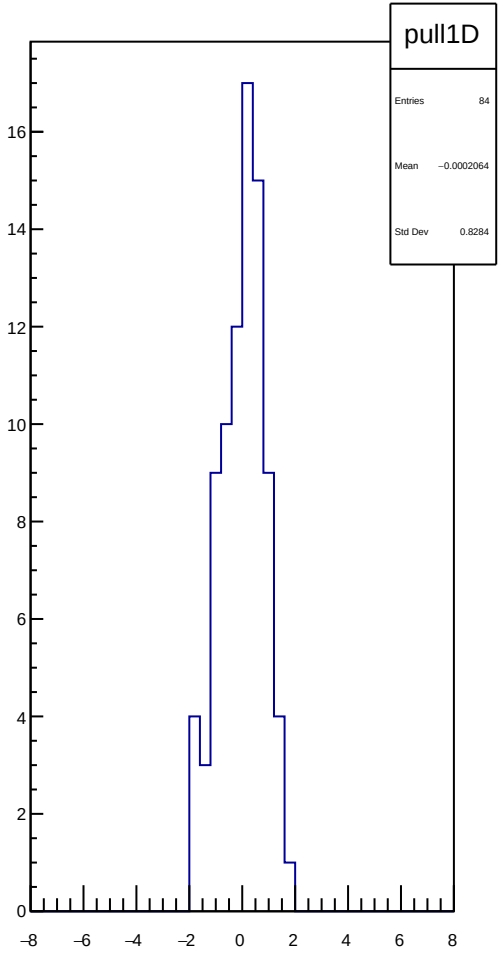

asym_bpm0l01WS_rms vs run
χ² / ndf 6721 / 83
p0 276.1 ± 0.217
320
300
280
260
240

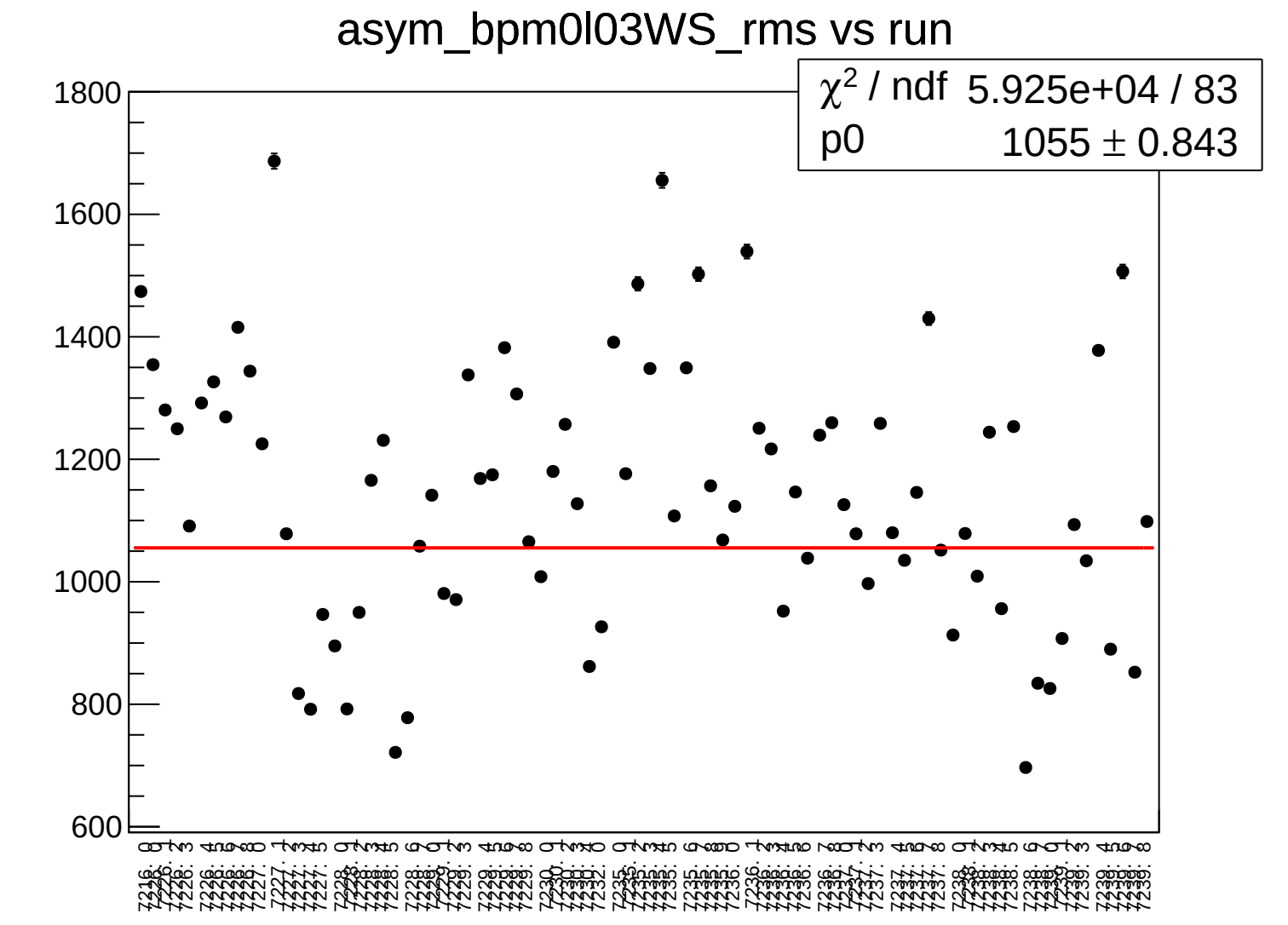

asym_bpm0l02WS_mean vs run
χ² / ndf 70.33 / 83
p0 1829 ± 444.8
pull
Entries 84
Mean 1170
Std Dev 0

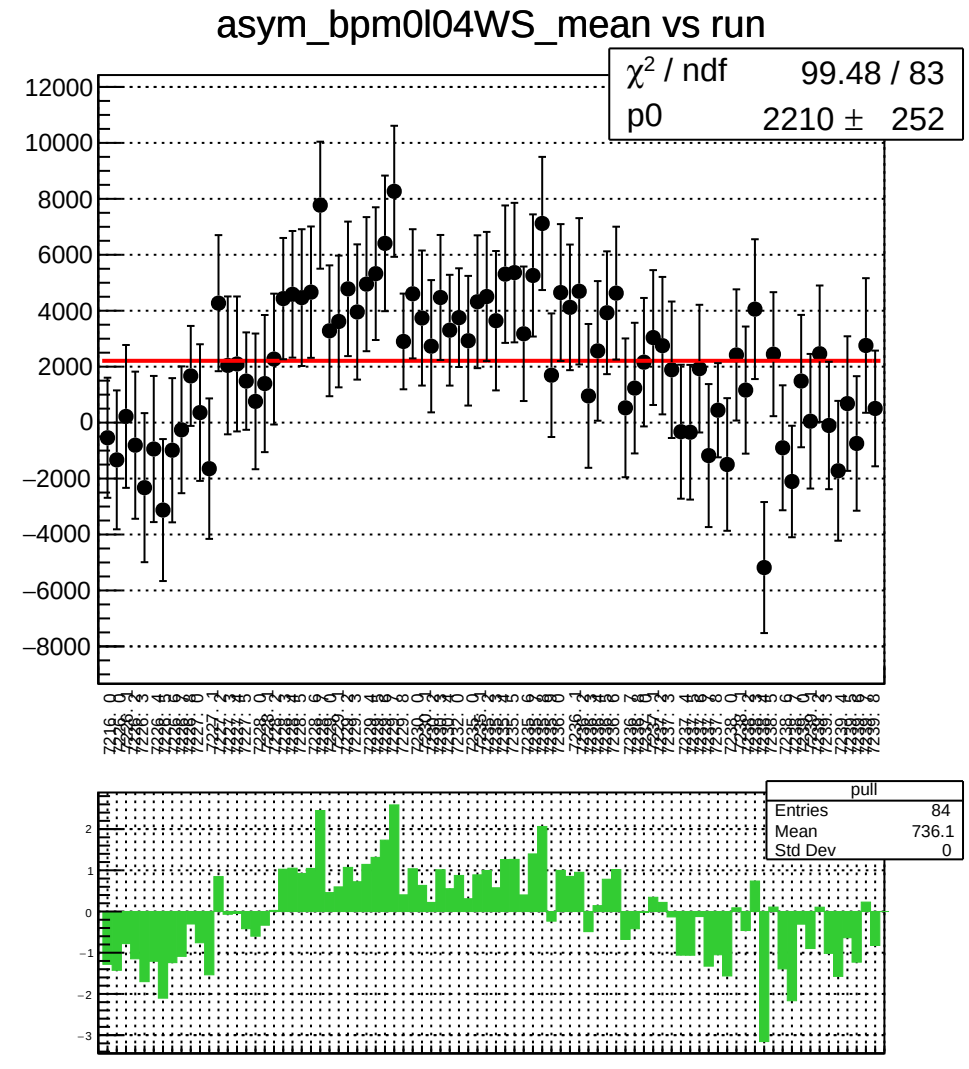

pull1D
Entries 84
Mean −0.001252
Std Dev 0.915

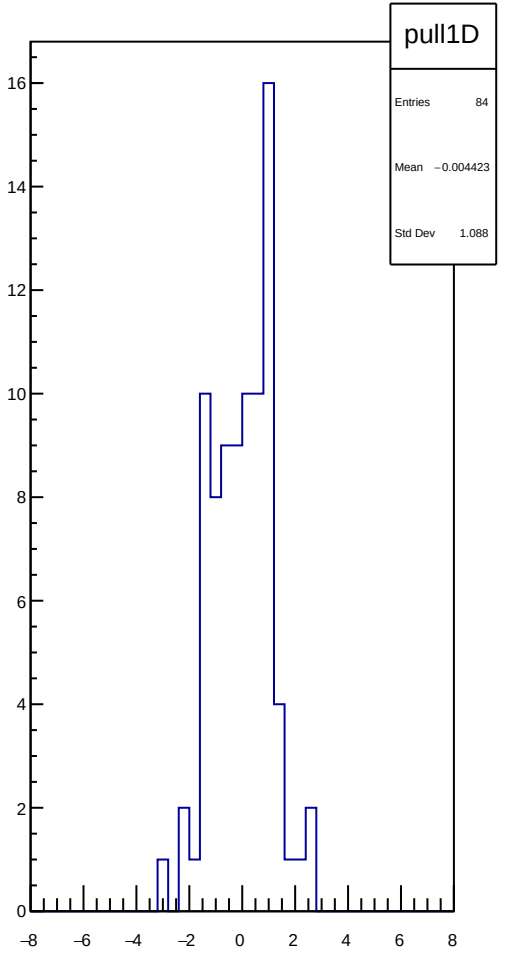

asym_bpm0l02WS_rms vs run
χ² / ndf 2664 / 83
p0 400.8 ± 0.3145
440
420
400
380
360

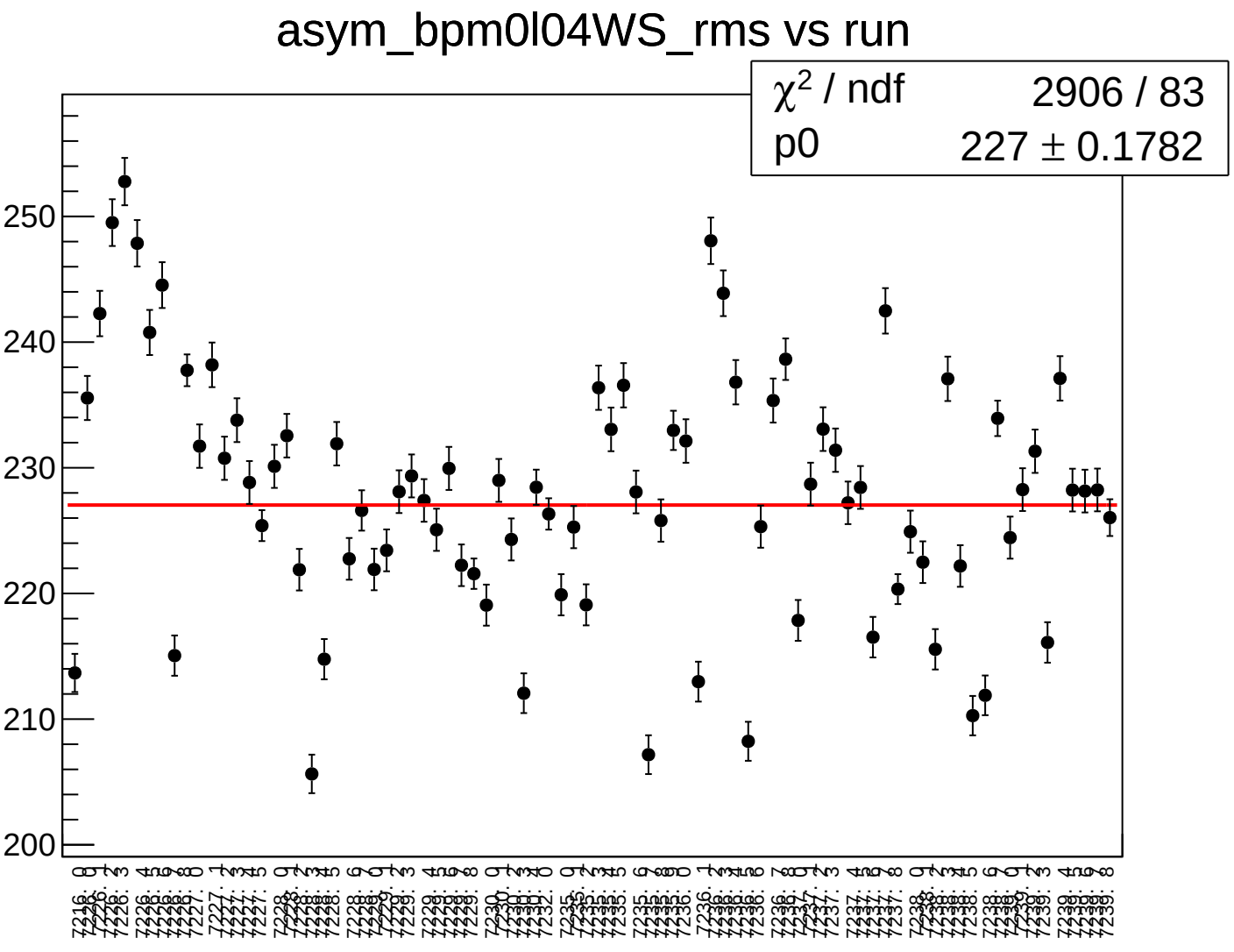

asym_bpm0l03WS_mean vs run
χ² / ndf 57.65 / 83
p0 3145 ± 1192
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 84
Mean 4421
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

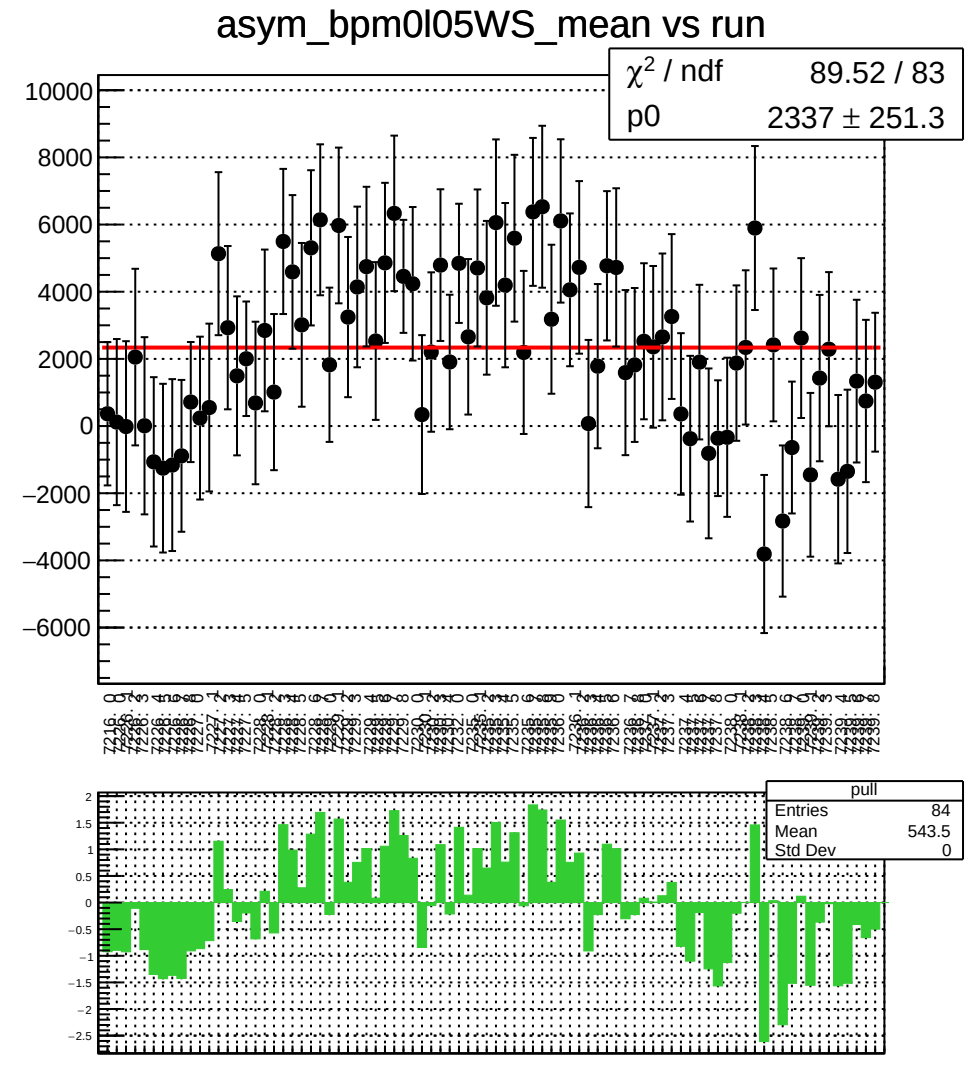

pull1D
Entries 84
Mean −0.0002064
Std Dev 0.8284
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

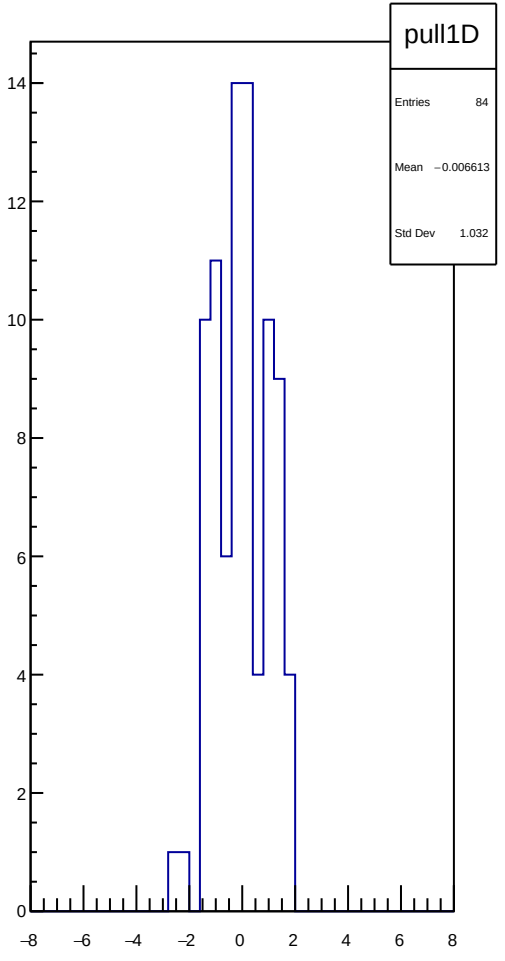

asym_bpm0l03WS_rms vs run
χ^2 / ndf 5.925e+04 / 83
p0 1055 ± 0.843
1800
1600
1400
1200
1000
800
600

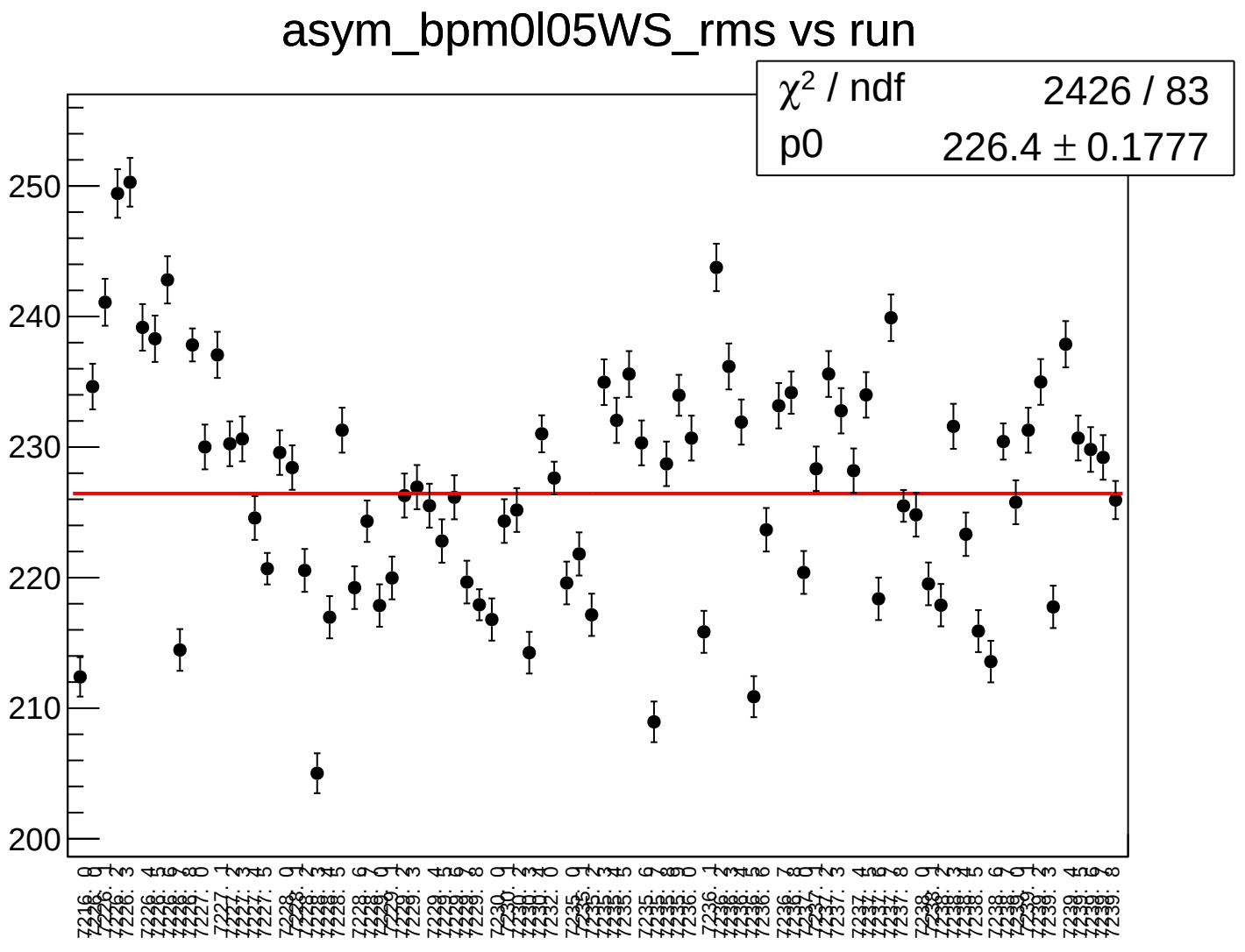

asym_bpm0l04WS_mean vs run
χ² / ndf 99.48 / 83
p0 2210 ± 252
pull
Entries 84
Mean 736.1
Std Dev 0

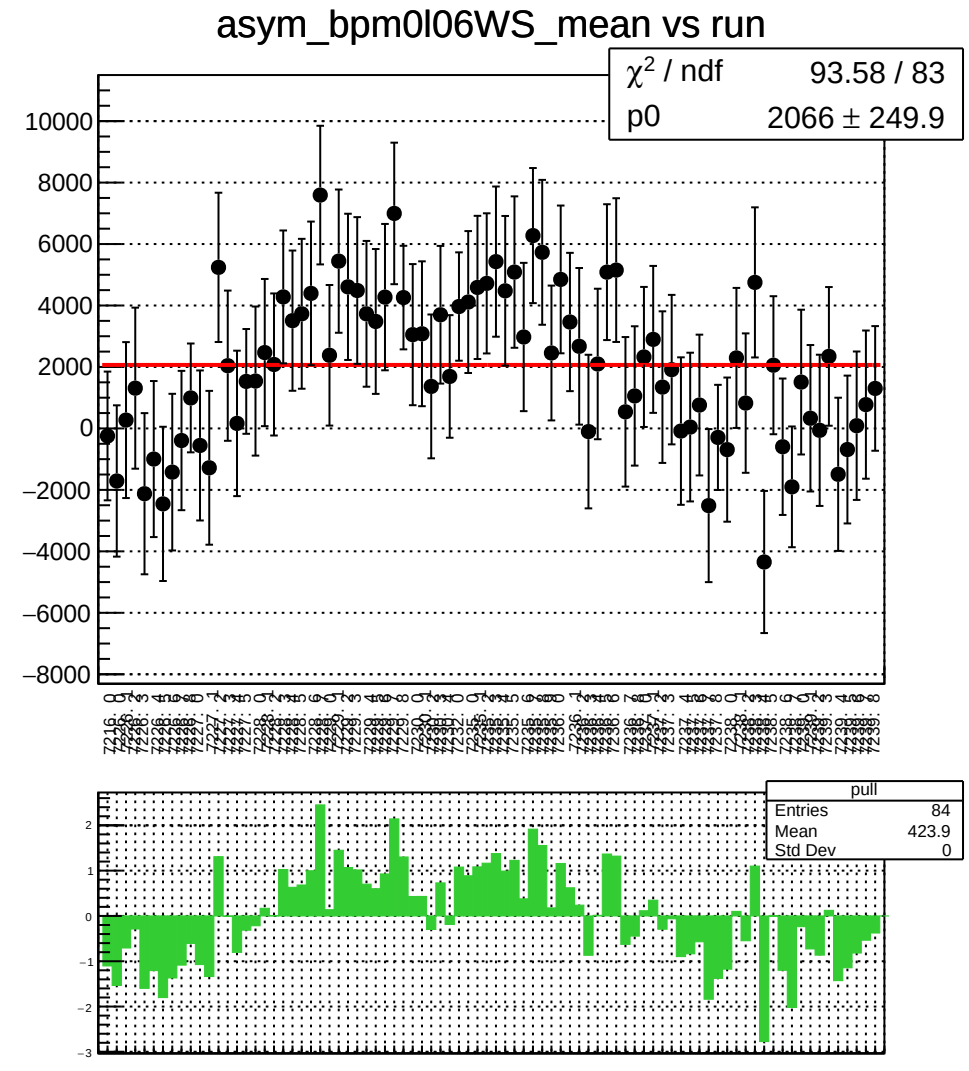

pull1D
Entries 84
Mean −0.004423
Std Dev 1.088

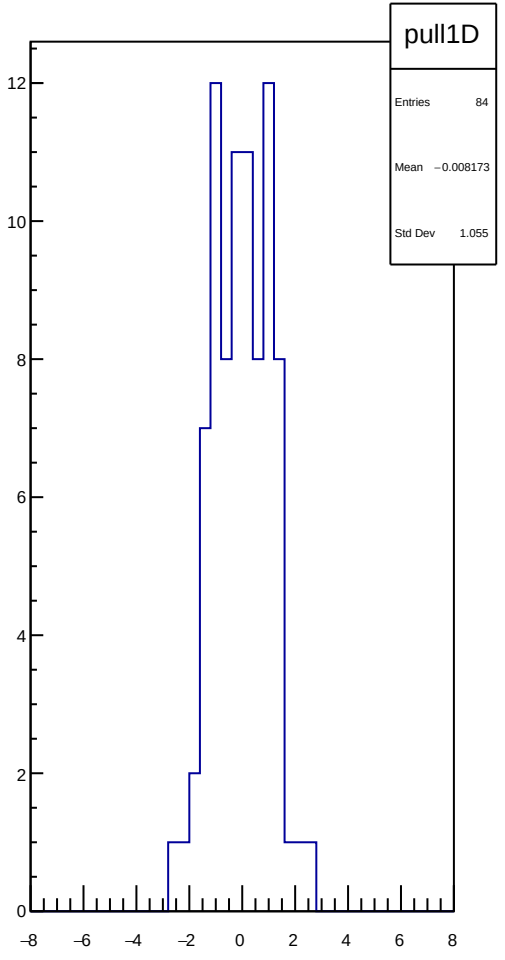

asym_bpm0l04WS_rms vs run
χ² / ndf 2906 / 83
p0 227 ± 0.1782
250
240
230
220
210
200

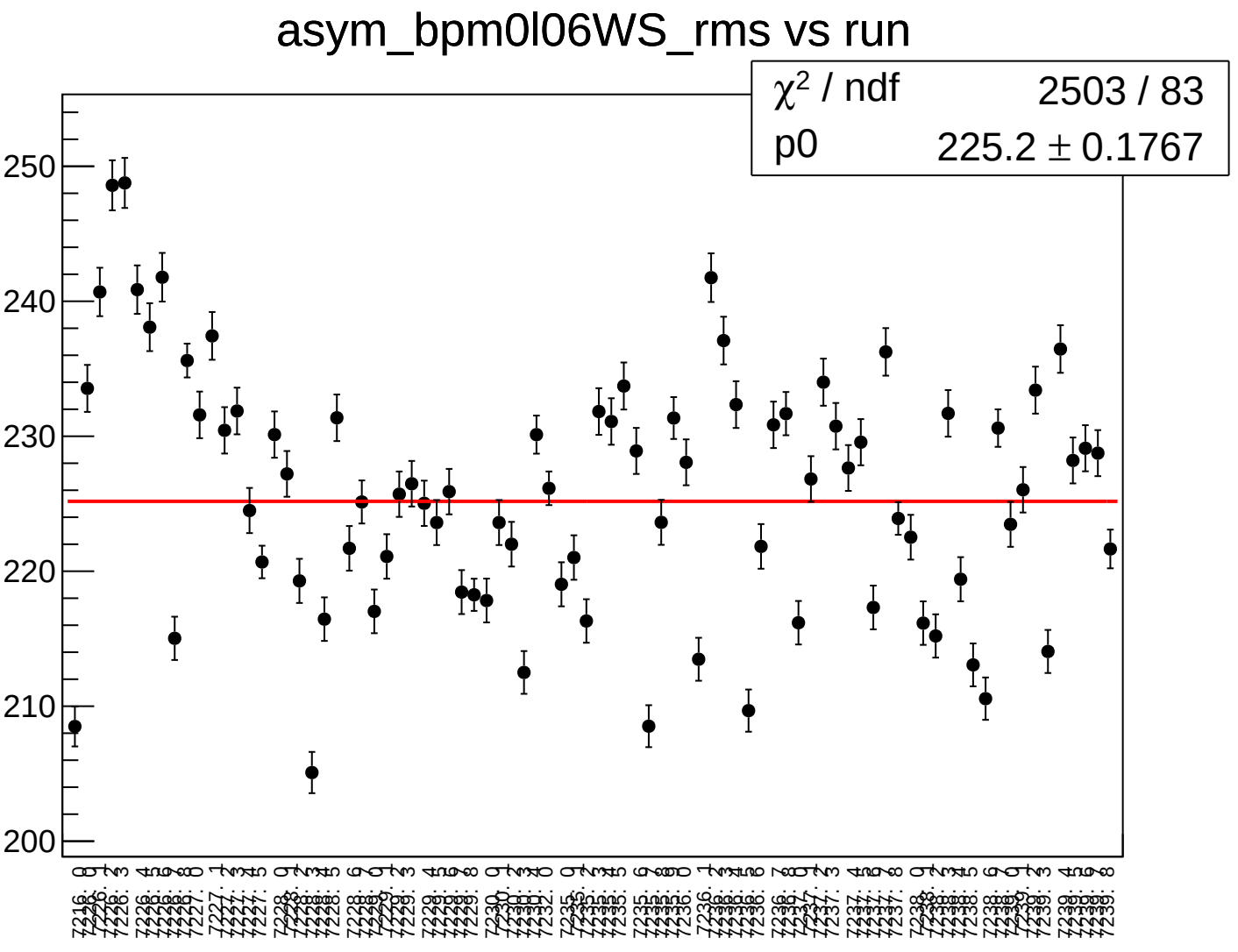

asym_bpm0l05WS_mean vs run
χ² / ndf 89.52 / 83
p0 2337 ± 251.3
pull
Entries 84
Mean 543.5
Std Dev 0

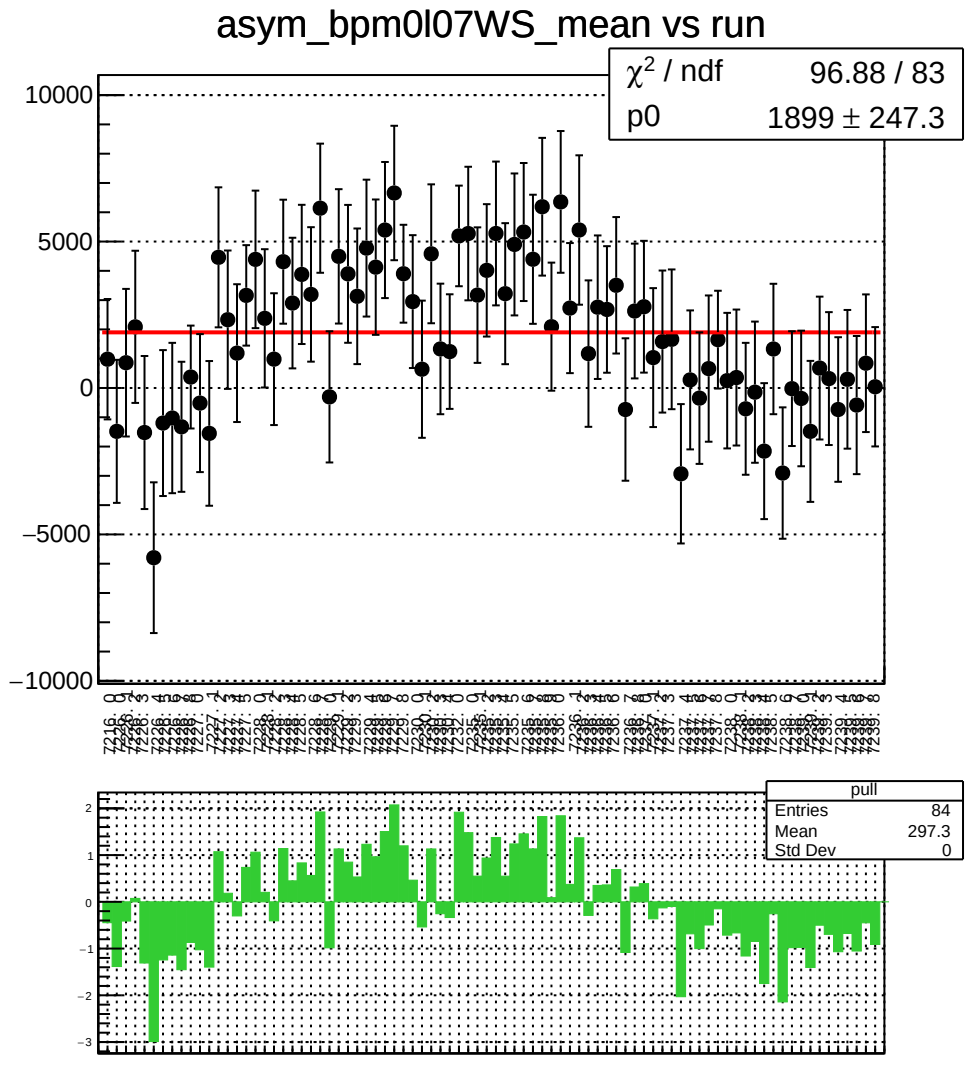

pull1D
Entries 84
Mean −0.006613
Std Dev 1.032

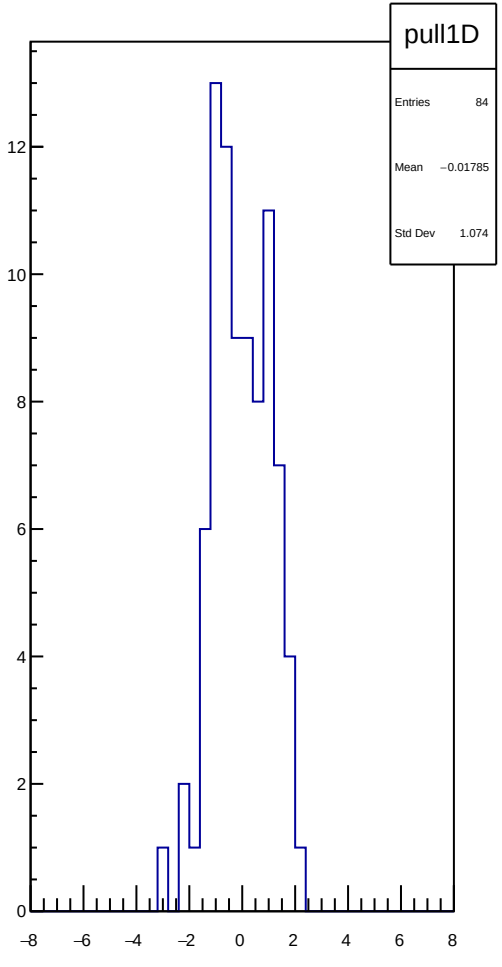

asym_bpm0l05WS_rms vs run
χ² / ndf 2426 / 83
p0 226.4 ± 0.1777
250
240
230
220
210
200

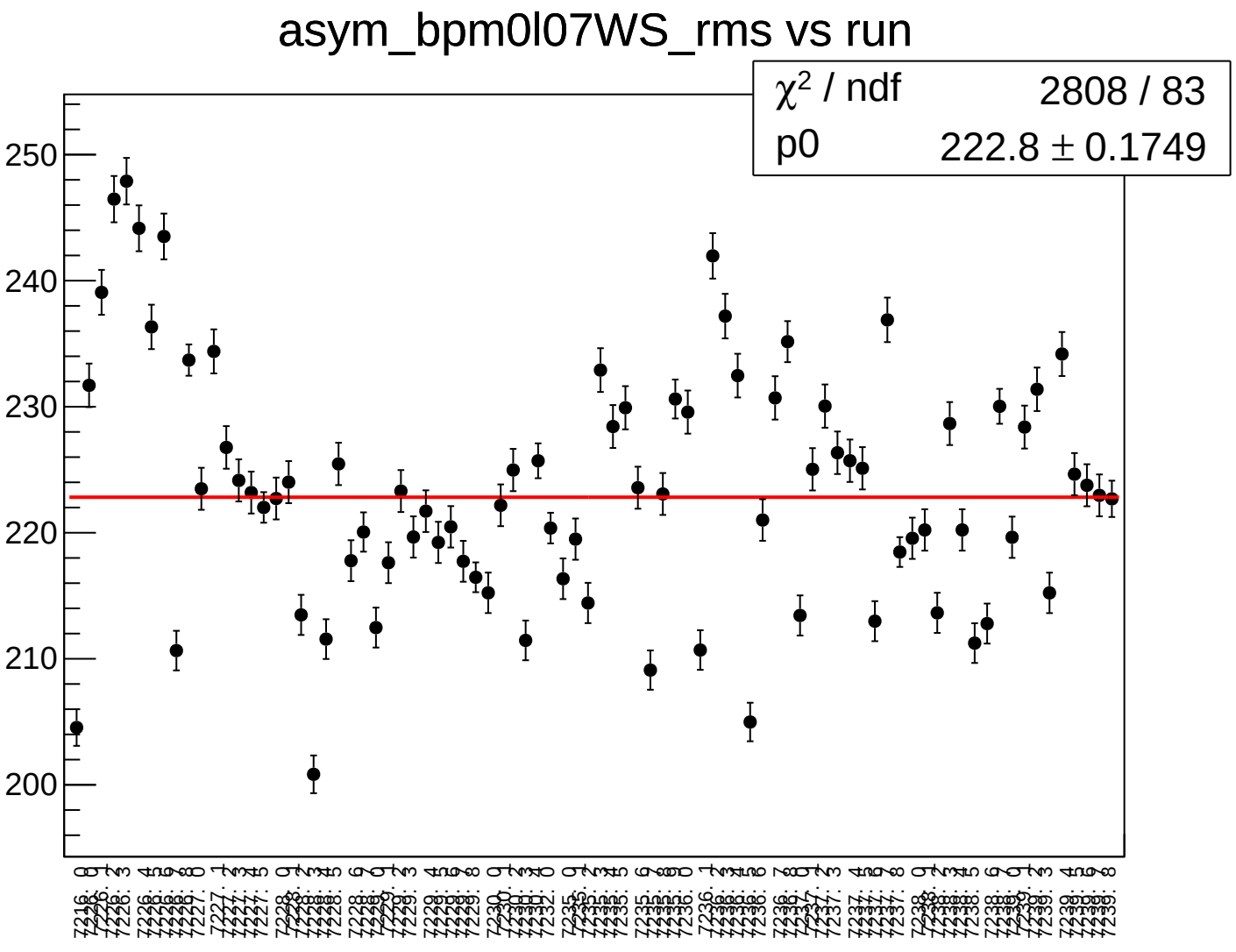

asym_bpm0l06WS_mean vs run
χ² / ndf 93.58 / 83
p0 2066 ± 249.9
pull
Entries 84
Mean 423.9
Std Dev 0

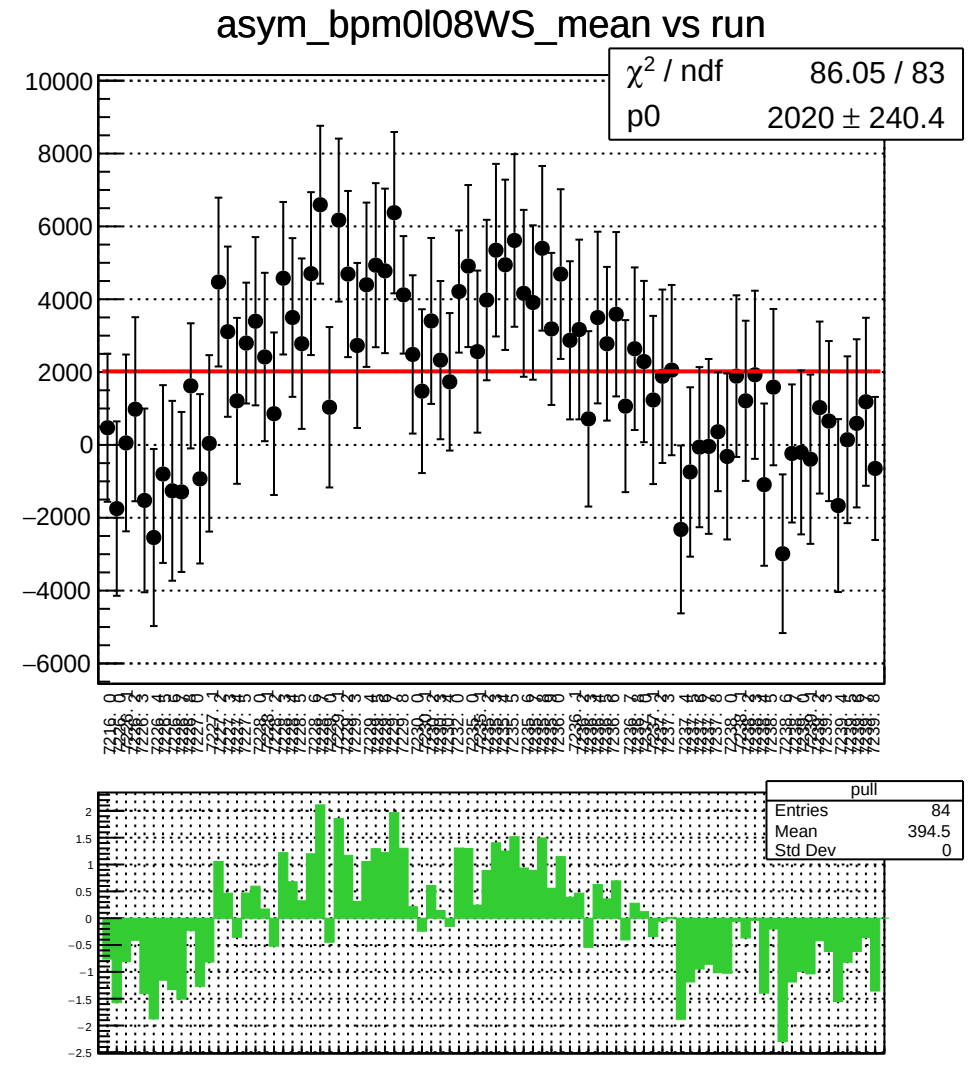

pull1D
Entries 84
Mean −0.008173
Std Dev 1.055

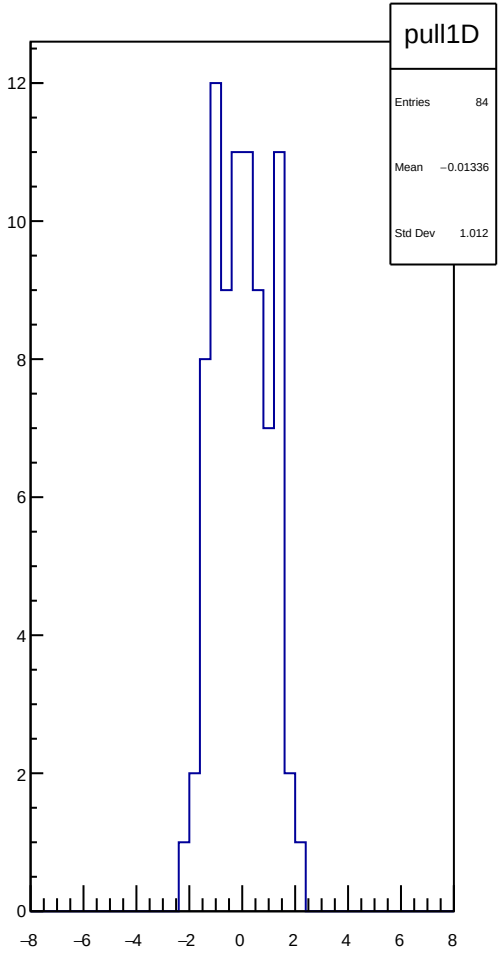

asym_bpm0l06WS_rms vs run
χ² / ndf 2503 / 83
p0 225.2 ± 0.1767
250
240
230
220
210
200

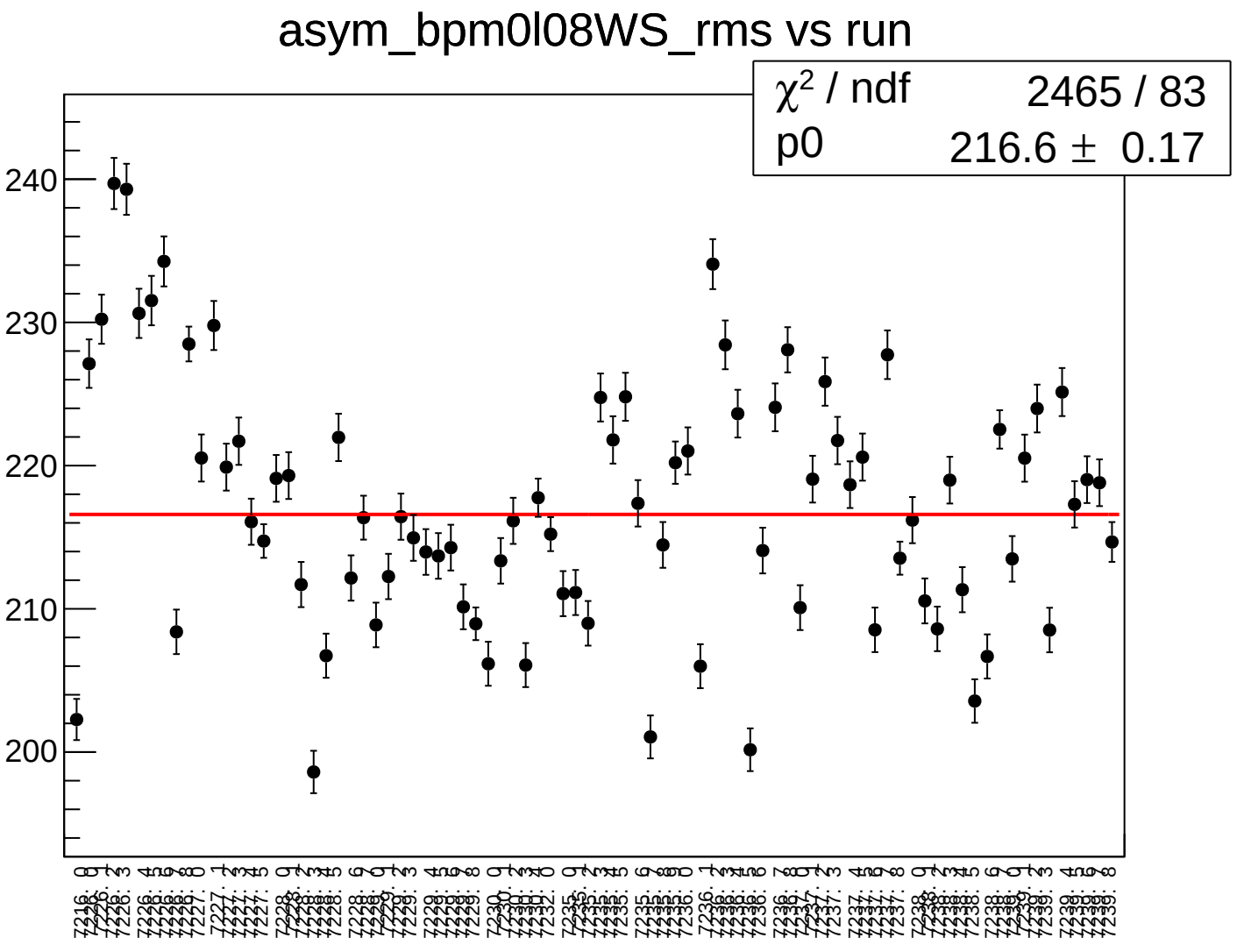

asym_bpm0l07WS_mean vs run
χ² / ndf 96.88 / 83
p0 1899 ± 247.3
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 297.3
Std Dev 0
2
1
0
−1
−2
−3

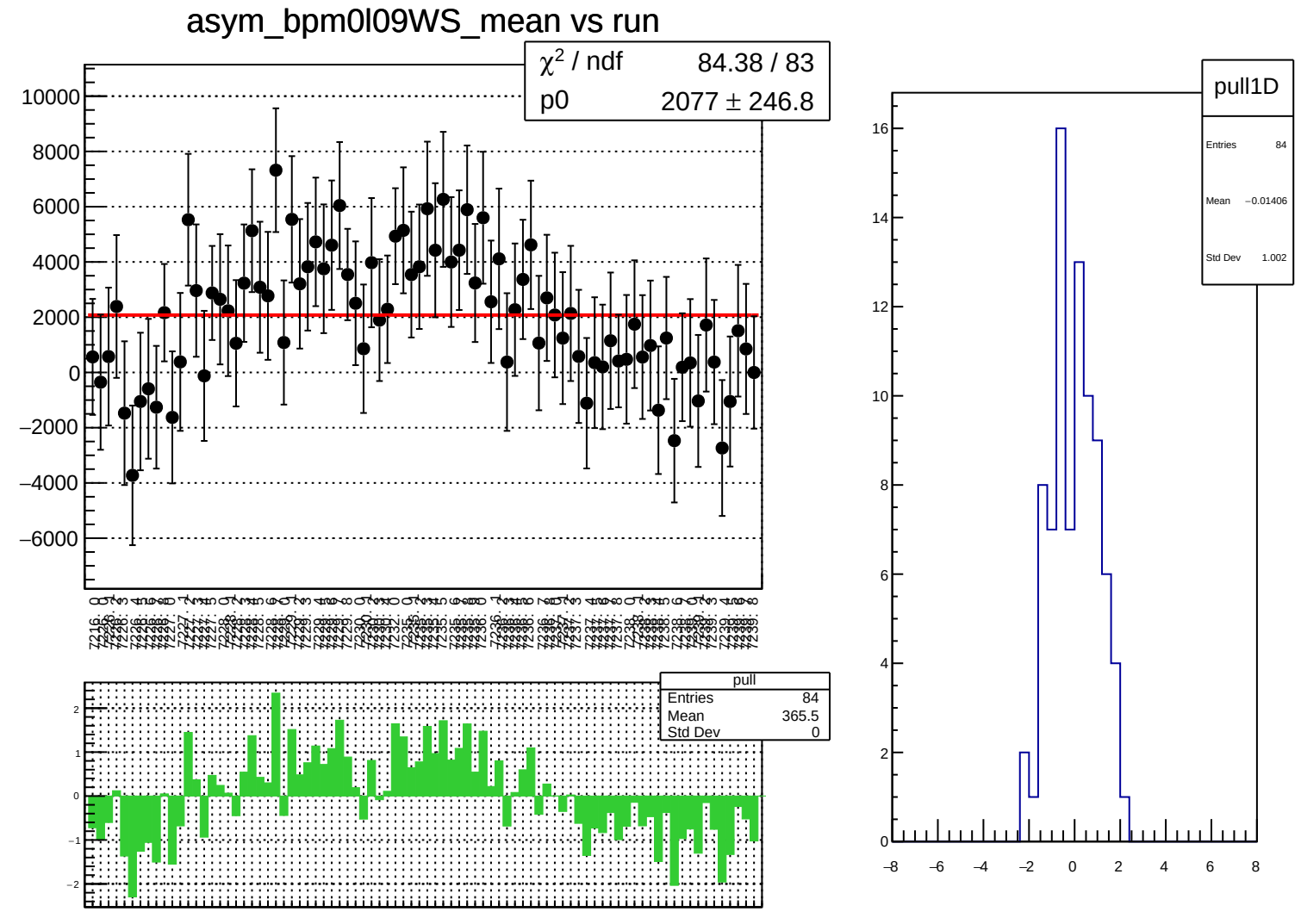

pull1D
Entries 84
Mean −0.01785
Std Dev 1.074
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

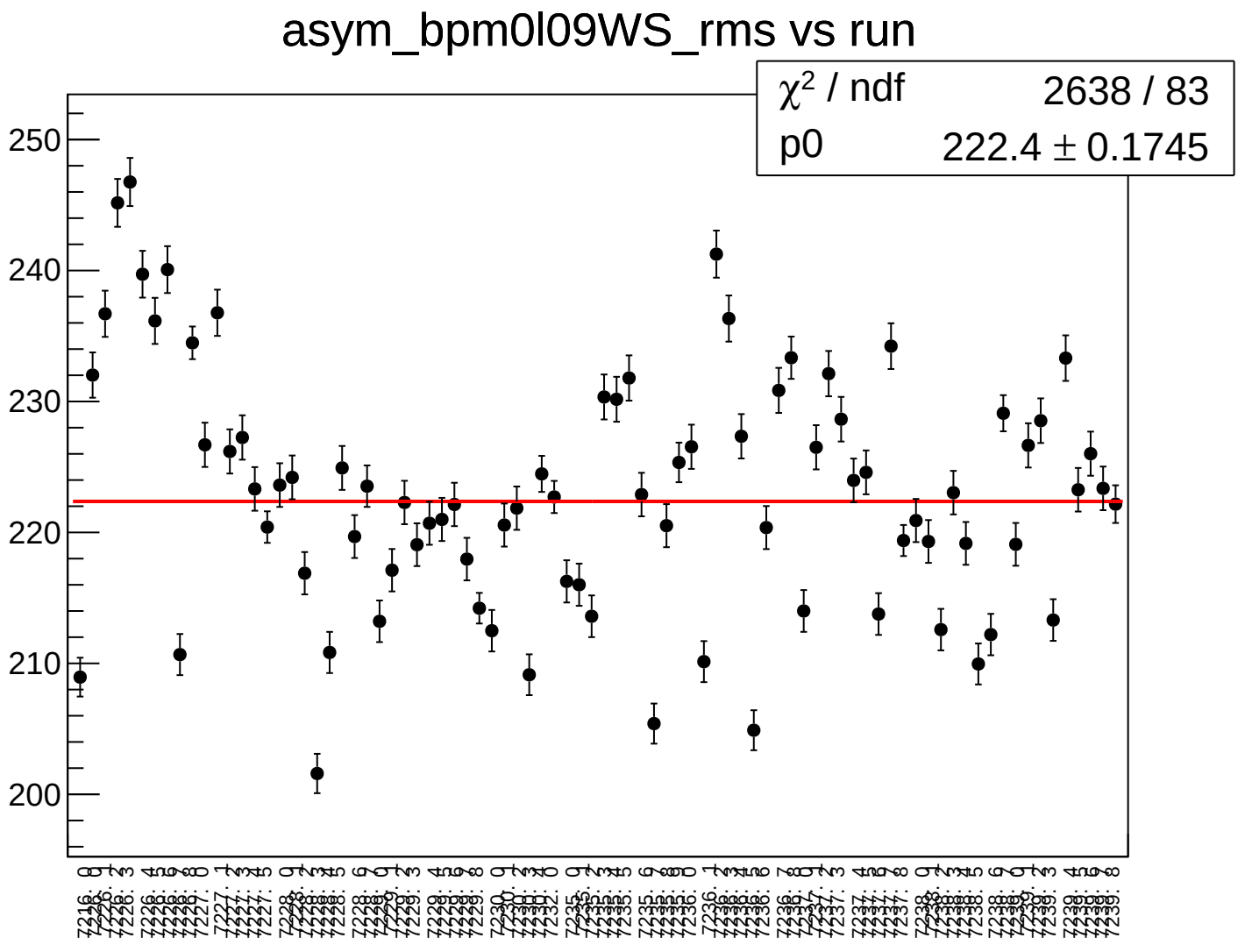

asym_bpm0l07WS_rms vs run
χ² / ndf 2808 / 83
p0 222.8 ± 0.1749
250
240
230
220
210
200

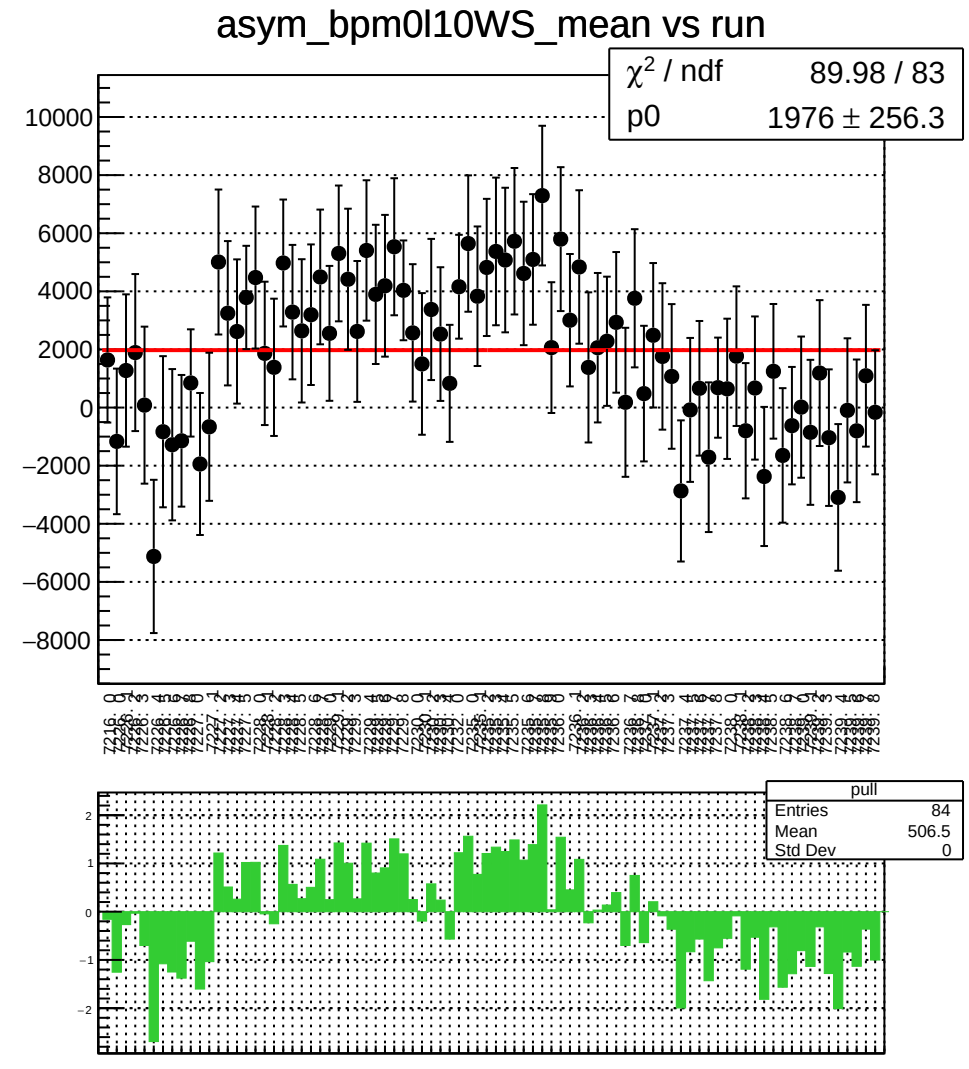

asym_bpm0l08WS_mean vs run
χ² / ndf 86.05 / 83
p0 2020 ± 240.4
pull
Entries 84
Mean 394.5
Std Dev 0

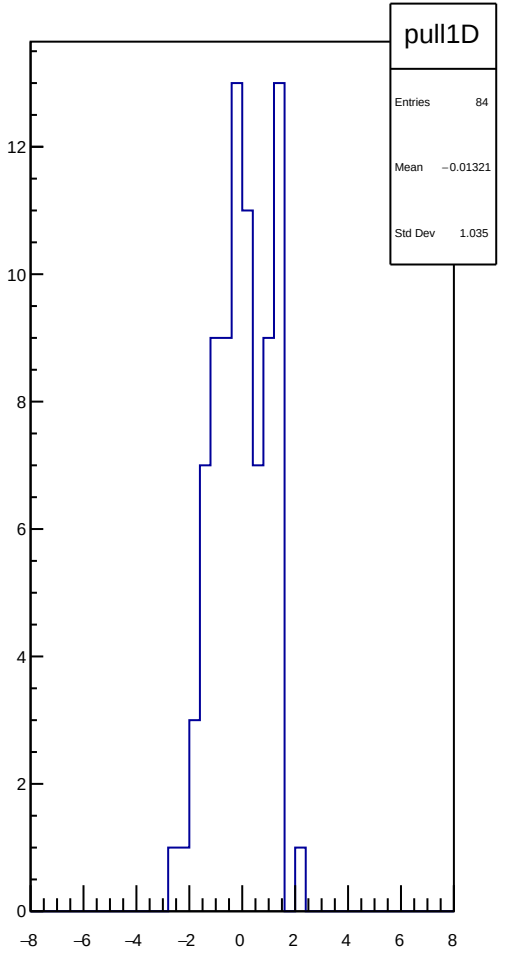

pull1D
Entries 84
Mean −0.01336
Std Dev 1.012

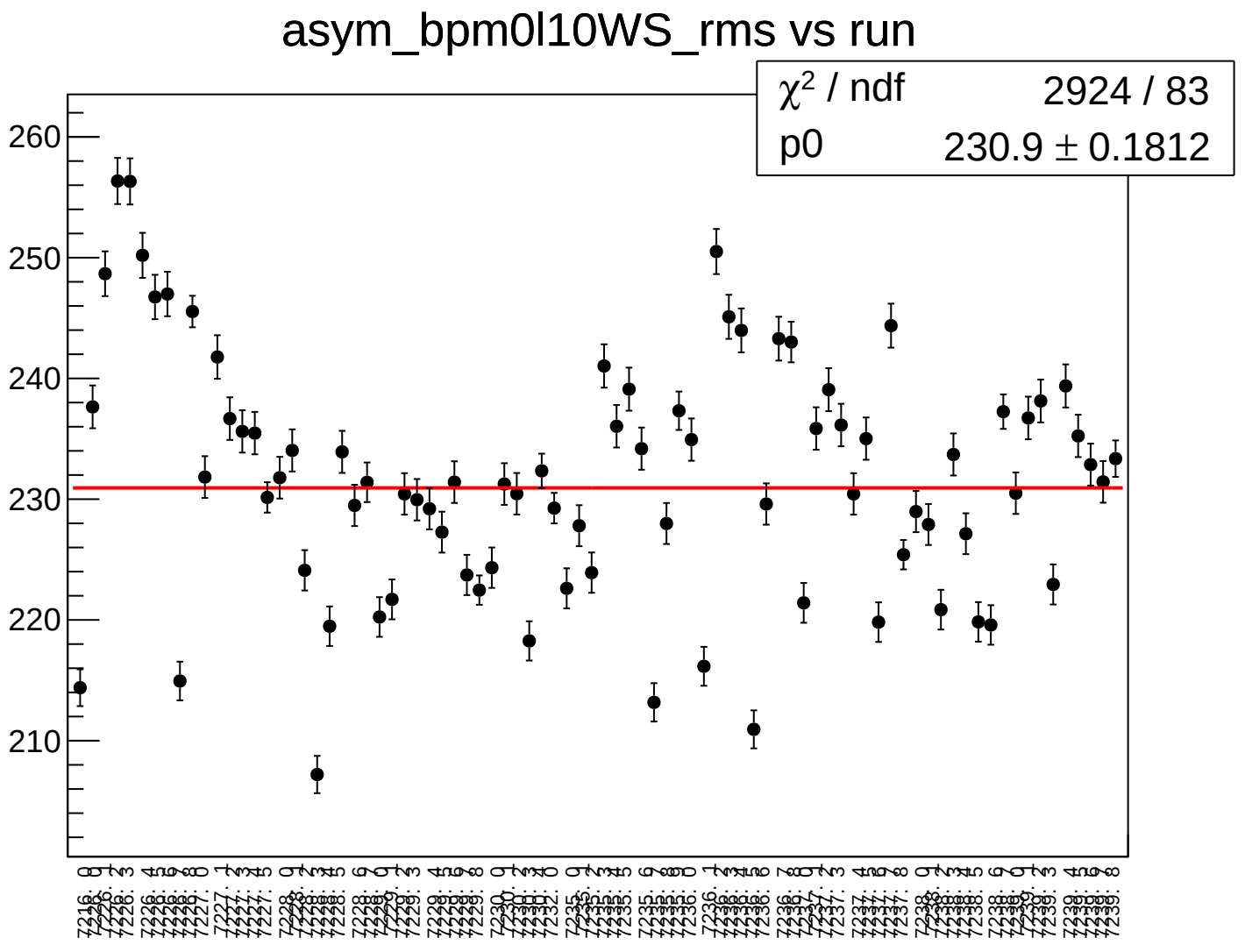

asym_bpm0l08WS_rms vs run
χ² / ndf 2465 / 83
p0 216.6 ± 0.17
240
230
220
210
200

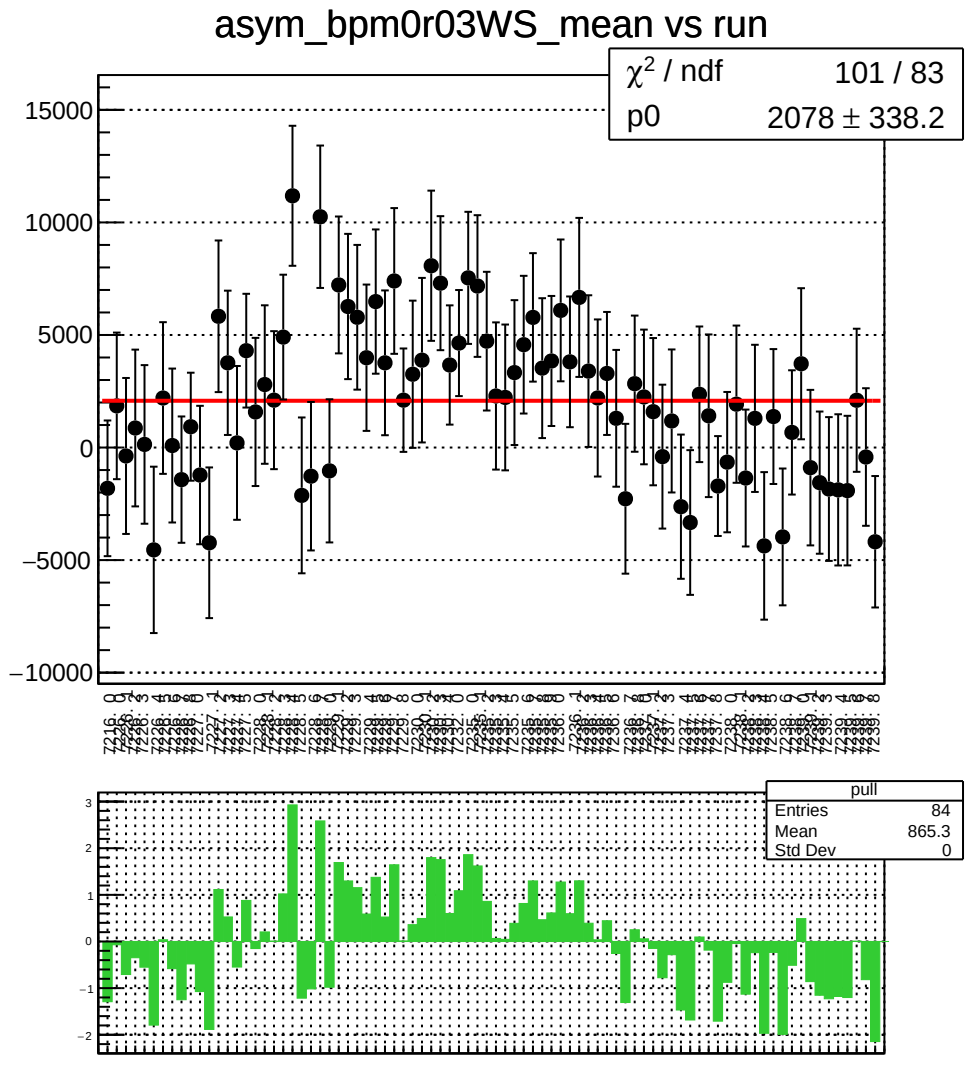

asym_bpm0l09WS_mean vs run
χ^2 / ndf 84.38 / 83
p0 2077 ± 246.8
pull
Entries 84
Mean 365.5
Std Dev 0
pull1D
Entries 84
Mean −0.01406
Std Dev 1.002

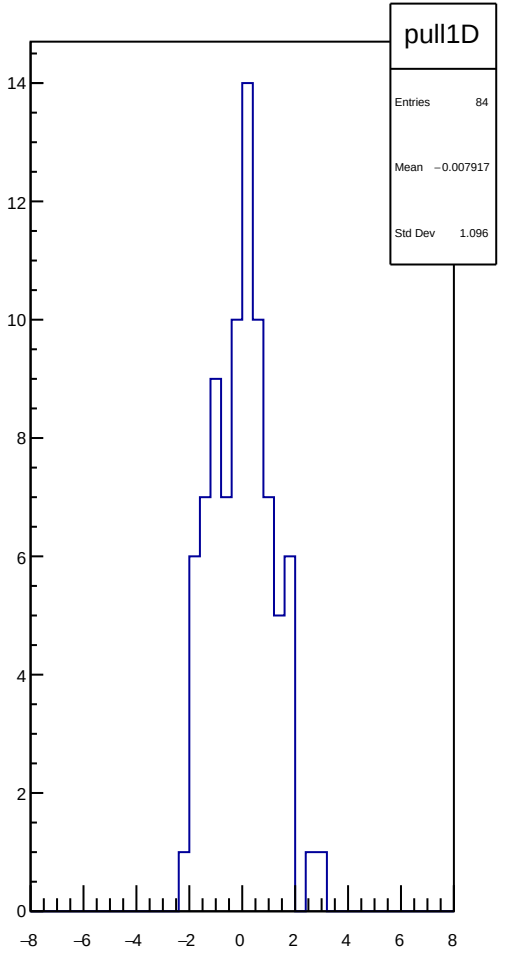

asym_bpm0l09WS_rms vs run
χ² / ndf 2638 / 83
p0 222.4 ± 0.1745
250
240
230
220
210
200

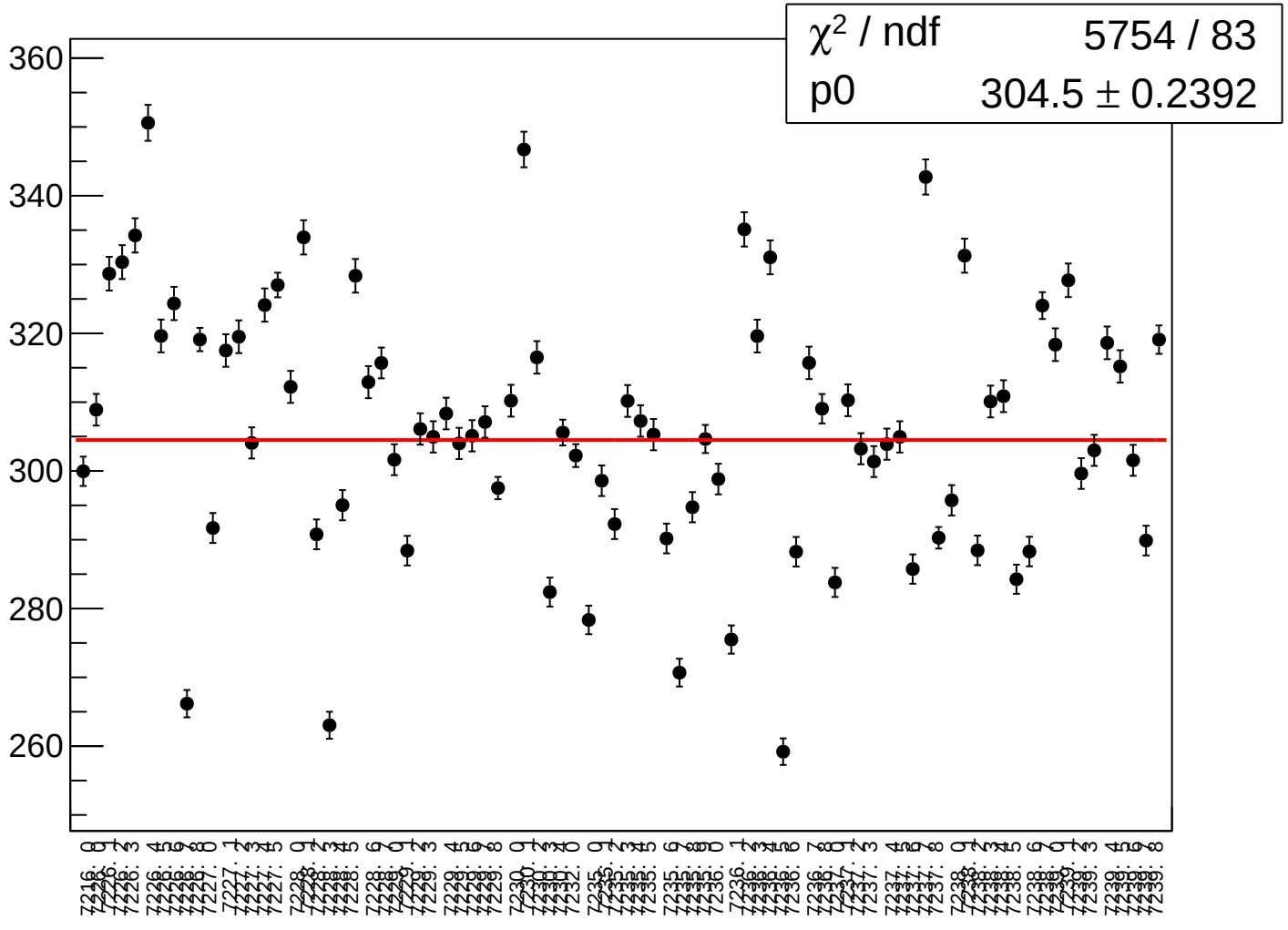

asym_bpm0l10WS_mean vs run
χ² / ndf 89.98 / 83
p0 1976 ± 256.3
pull
Entries 84
Mean 506.5
Std Dev 0

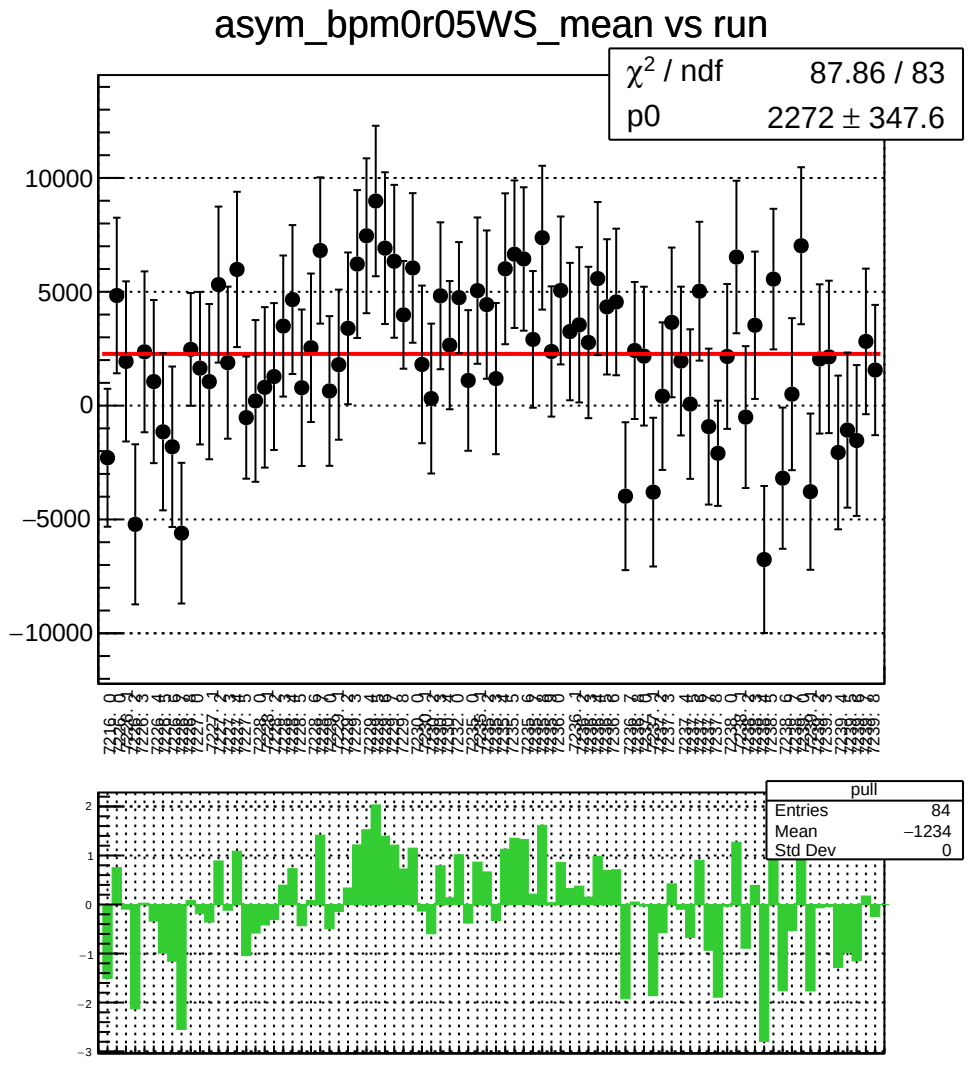

pull1D
Entries 84
Mean −0.01321
Std Dev 1.035

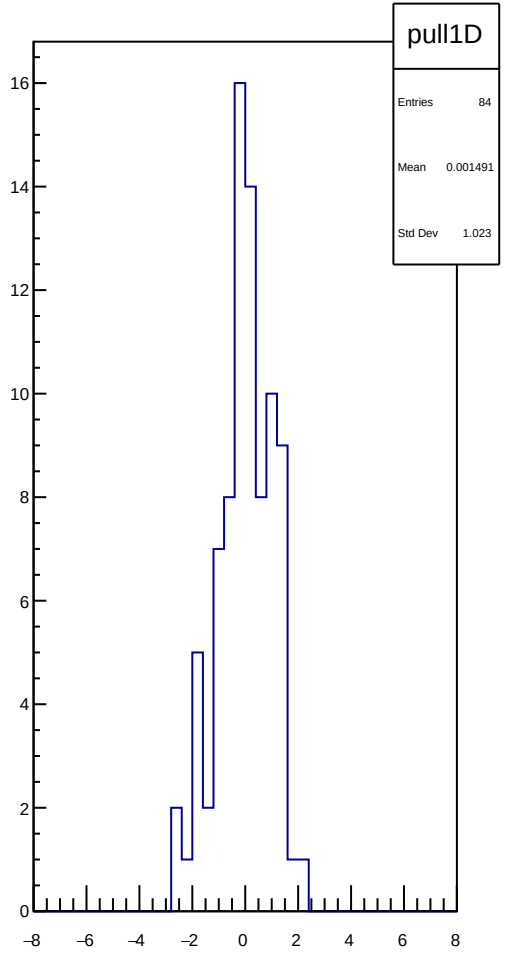

asym_bpm0l10WS_rms vs run
χ² / ndf 2924 / 83
p0 230.9 ± 0.1812
260
250
240
230
220
210

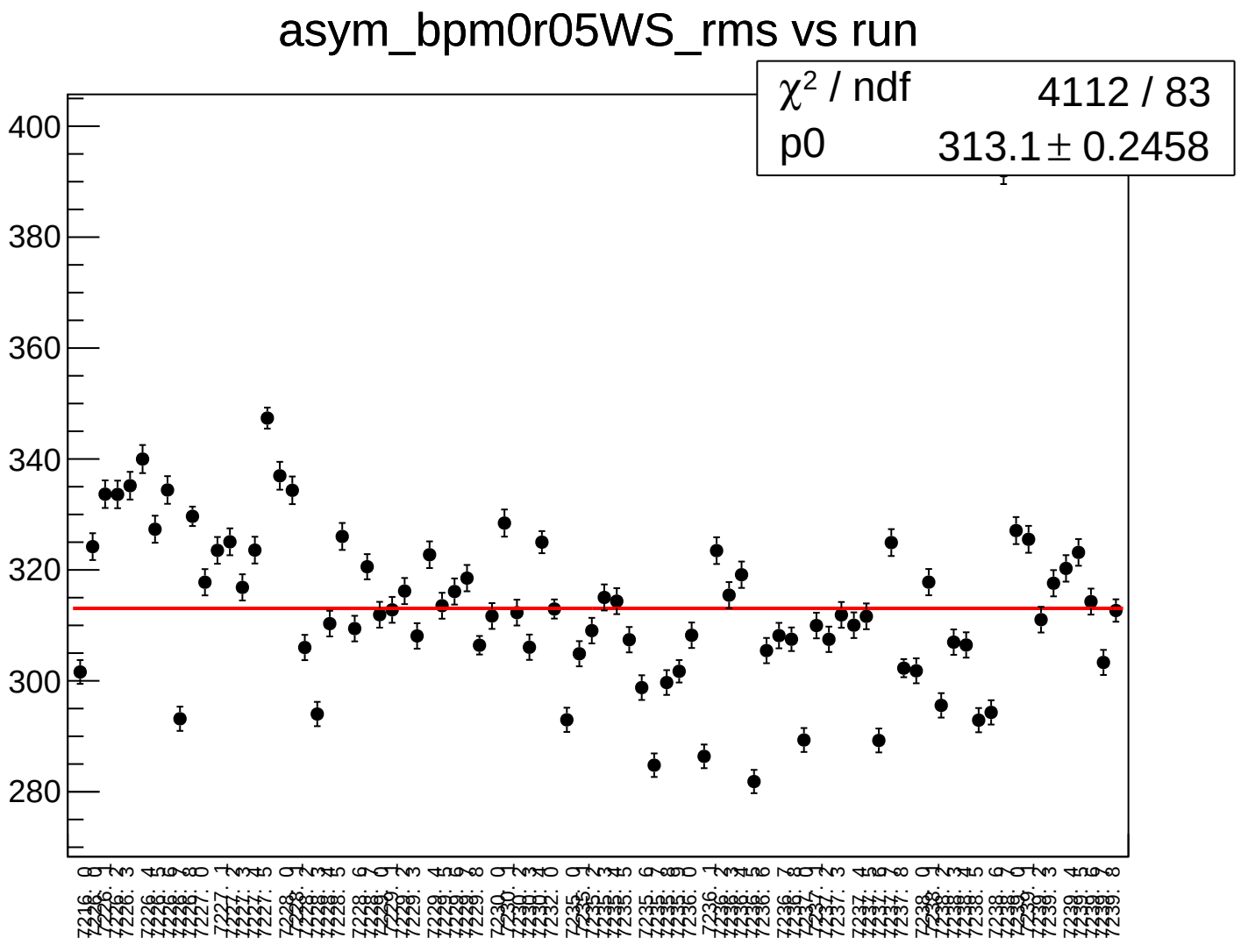

asym_bpm0r03WS_mean vs run
χ² / ndf 101 / 83
p0 2078 ± 338.2
pull
Entries 84
Mean 865.3
Std Dev 0

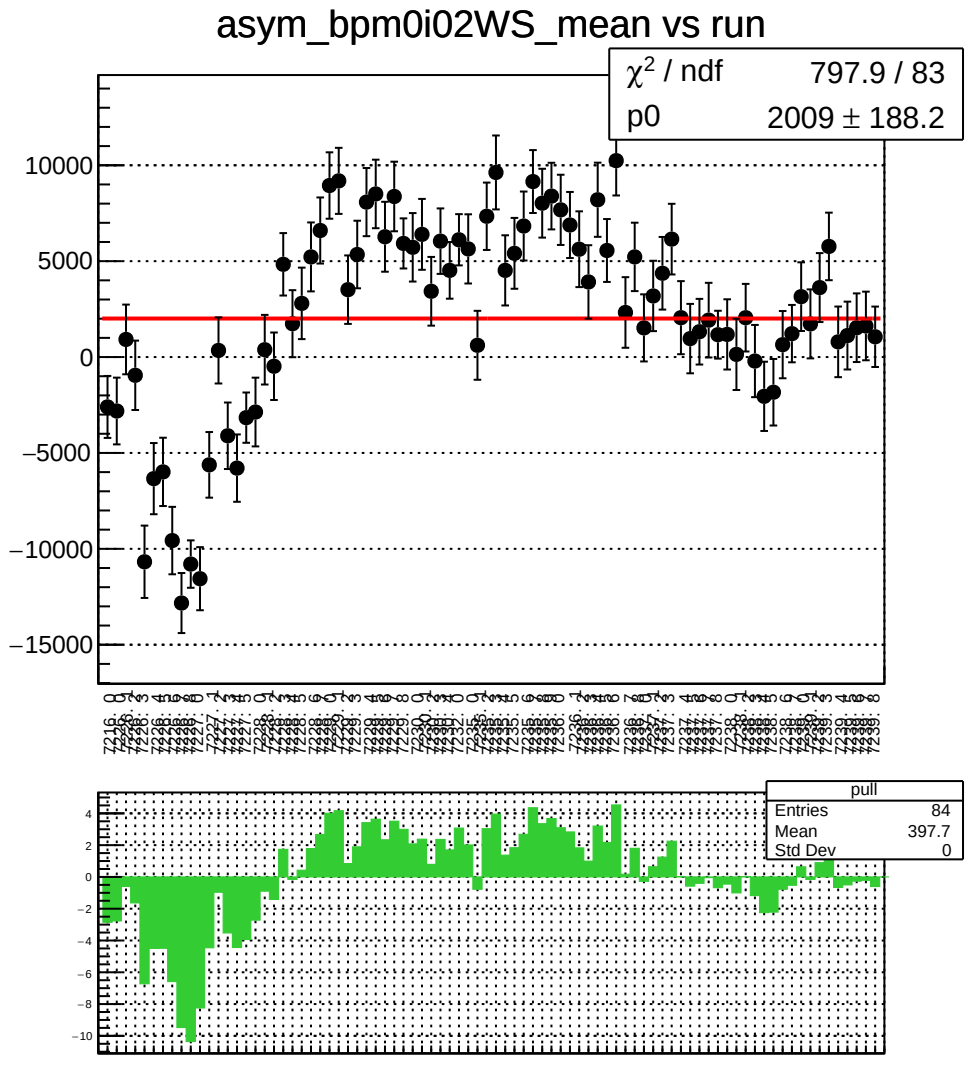

pull1D
Entries 84
Mean −0.007917
Std Dev 1.096

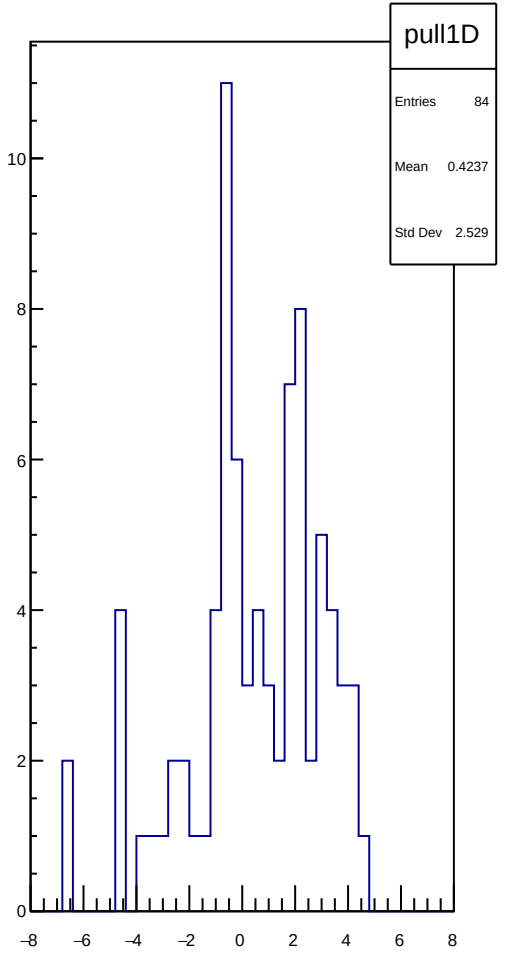

asym_bpm0r03WS_rms vs run
χ² / ndf 5754 / 83
p0 304.5 ± 0.2392
360
340
320
300
280
260

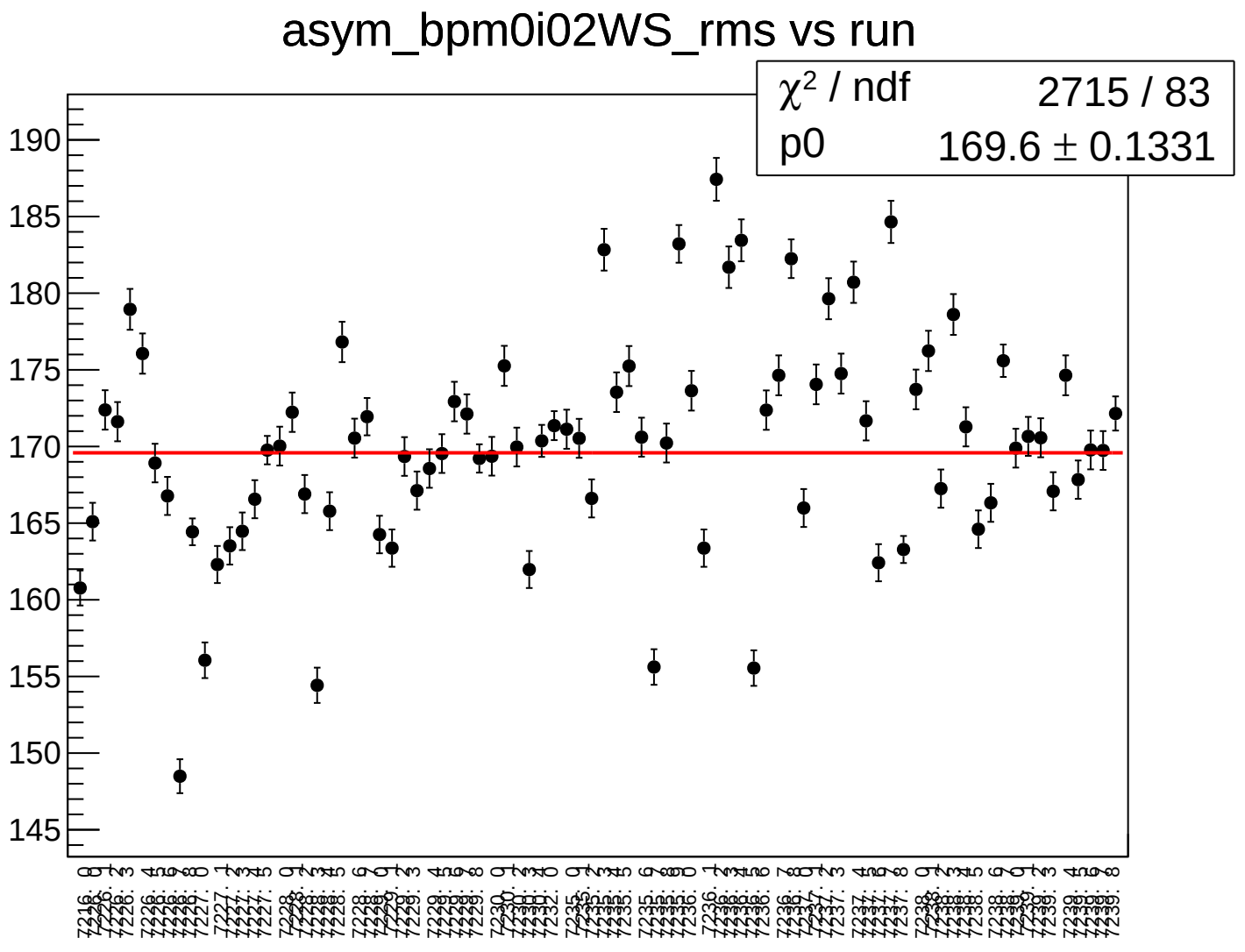

asym_bpm0r05WS_mean vs run
χ² / ndf 87.86 / 83
p0 2272 ± 347.6
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −1234
Std Dev 0
2
1
0
−1
−2
−3

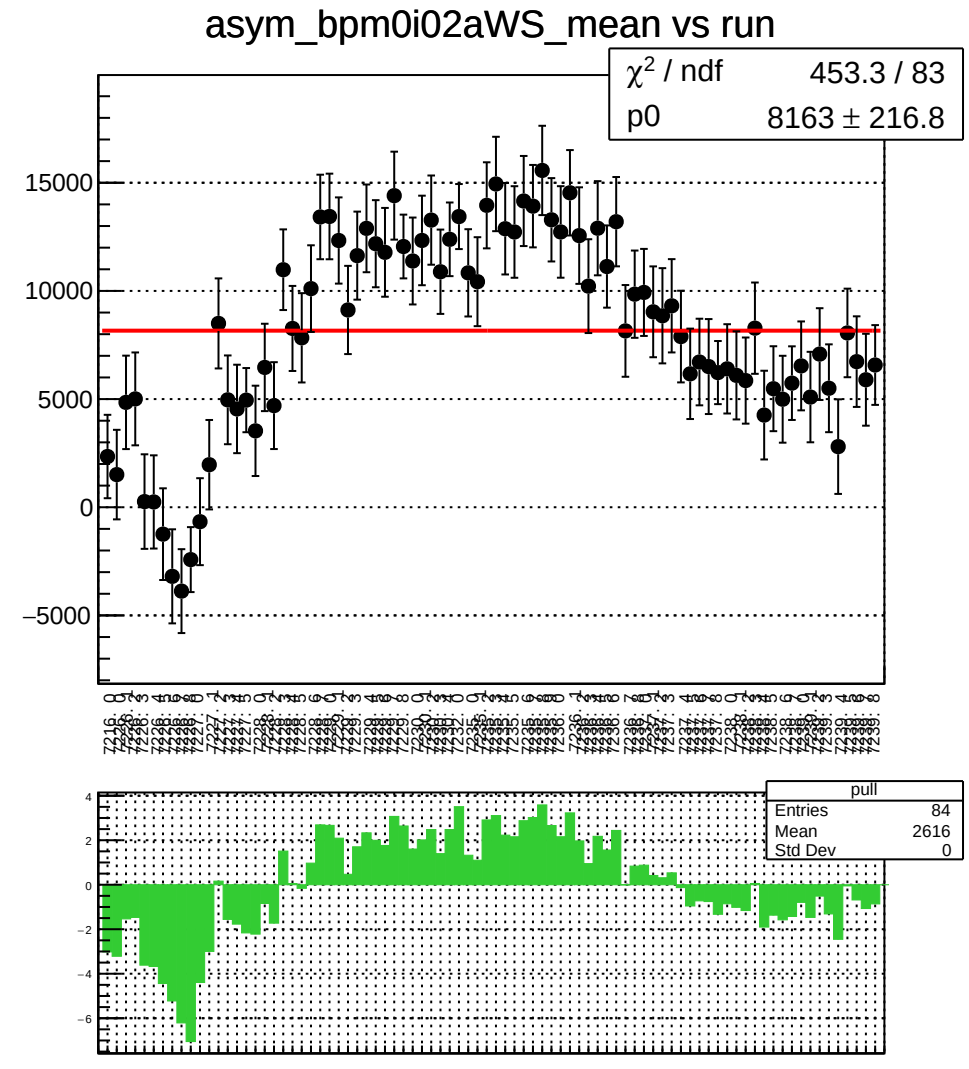

pull1D
Entries 84
Mean 0.001491
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

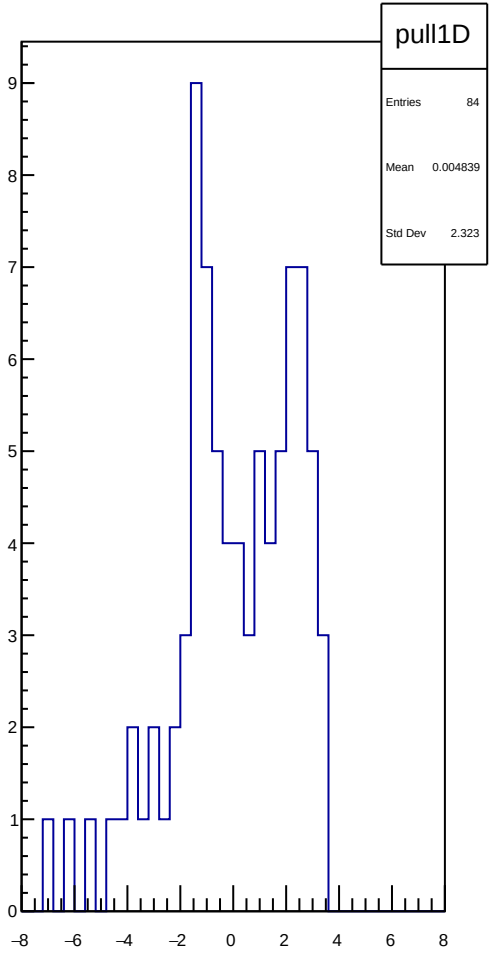

asym_bpm0r05WS_rms vs run
χ² / ndf 4112 / 83
p0 313.1 ± 0.2458
400
380
360
340
320
300
280

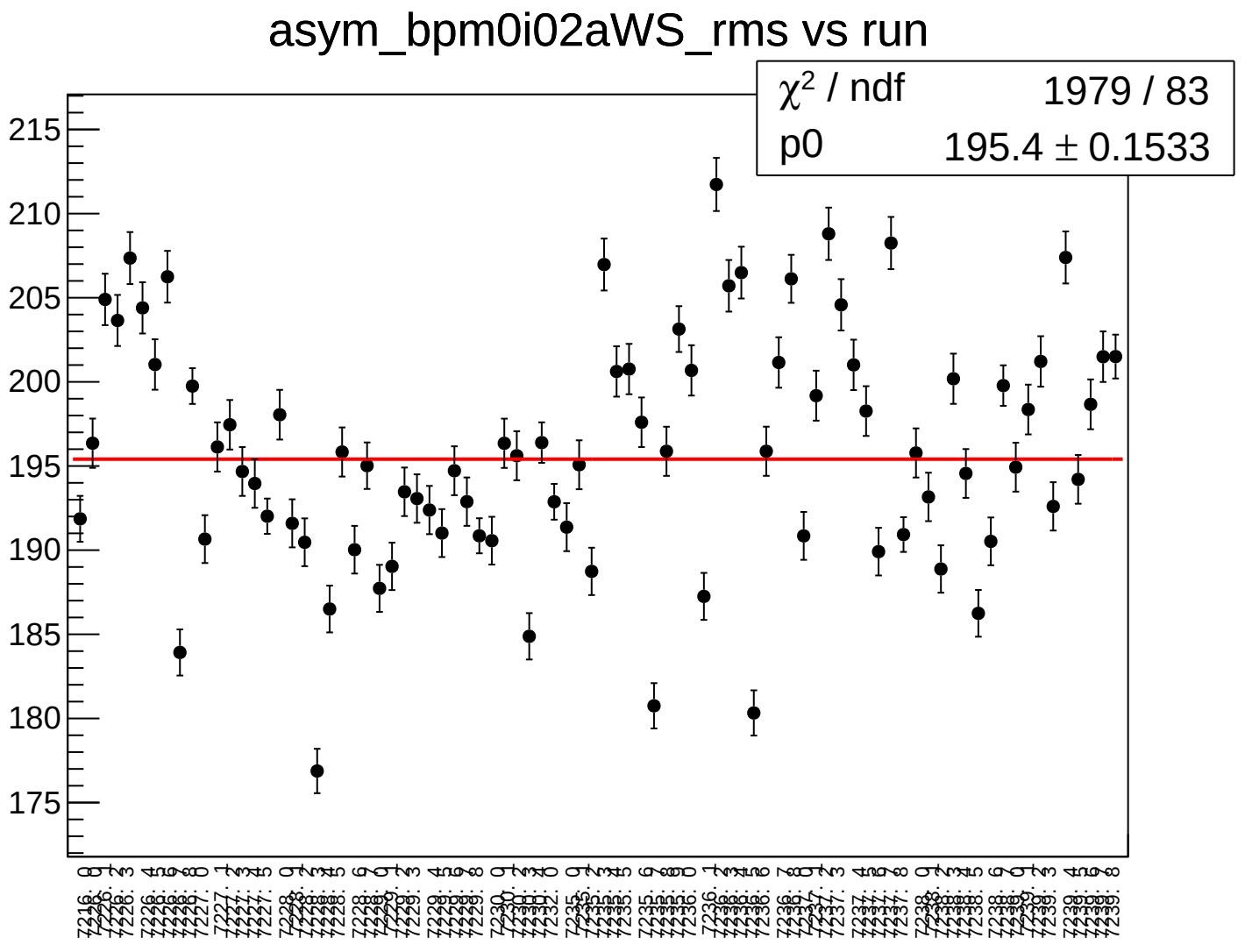

asym_bpm0i02WS_mean vs run
χ² / ndf 797.9 / 83
p0 2009 ± 188.2
pull
Entries 84
Mean 397.7
Std Dev 0

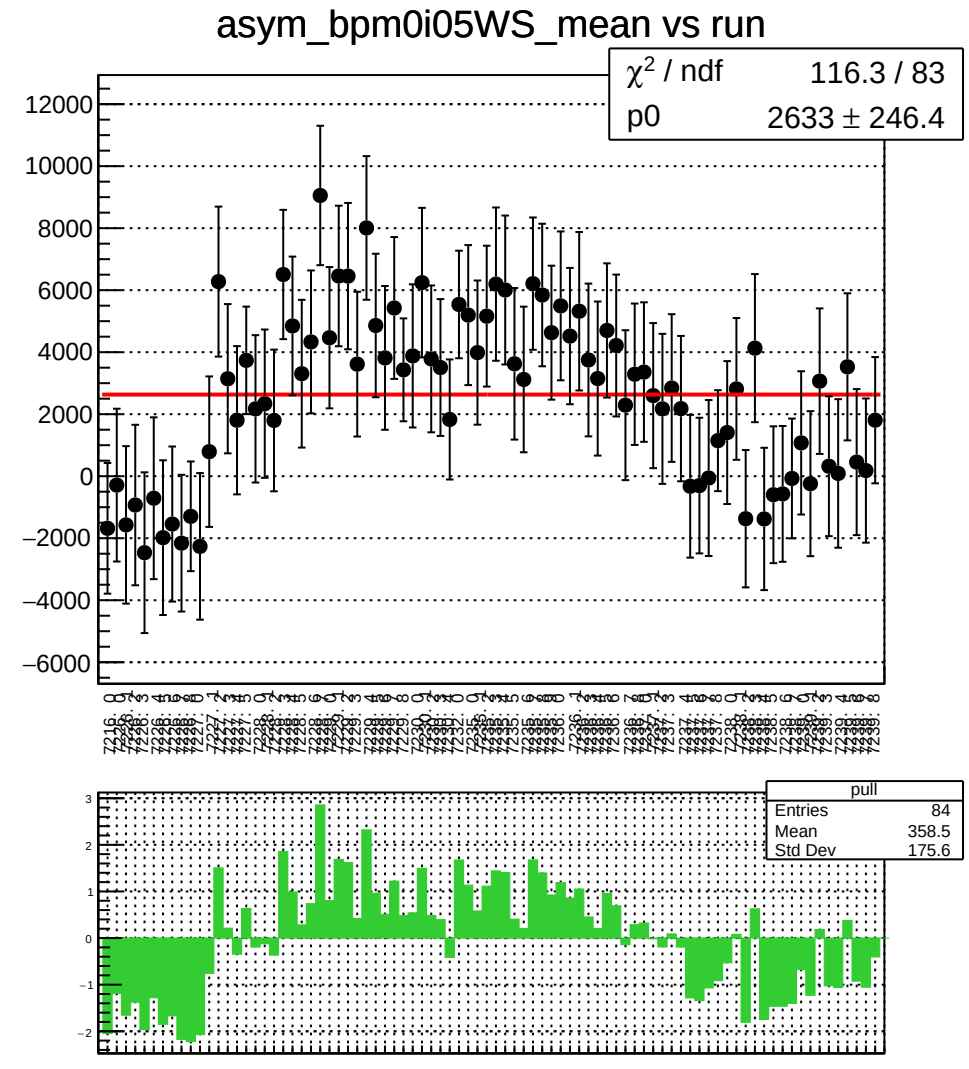

pull1D
Entries 84
Mean 0.4237
Std Dev 2.529

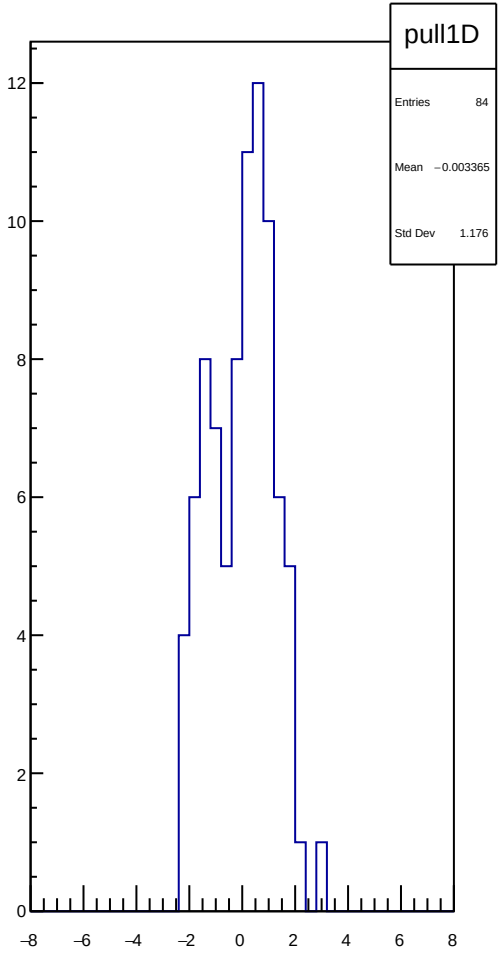

asym_bpm0i02WS_rms vs run
χ² / ndf 2715 / 83
p0 169.6 ± 0.1331
190
185
180
175
170
165
160
155
150
145

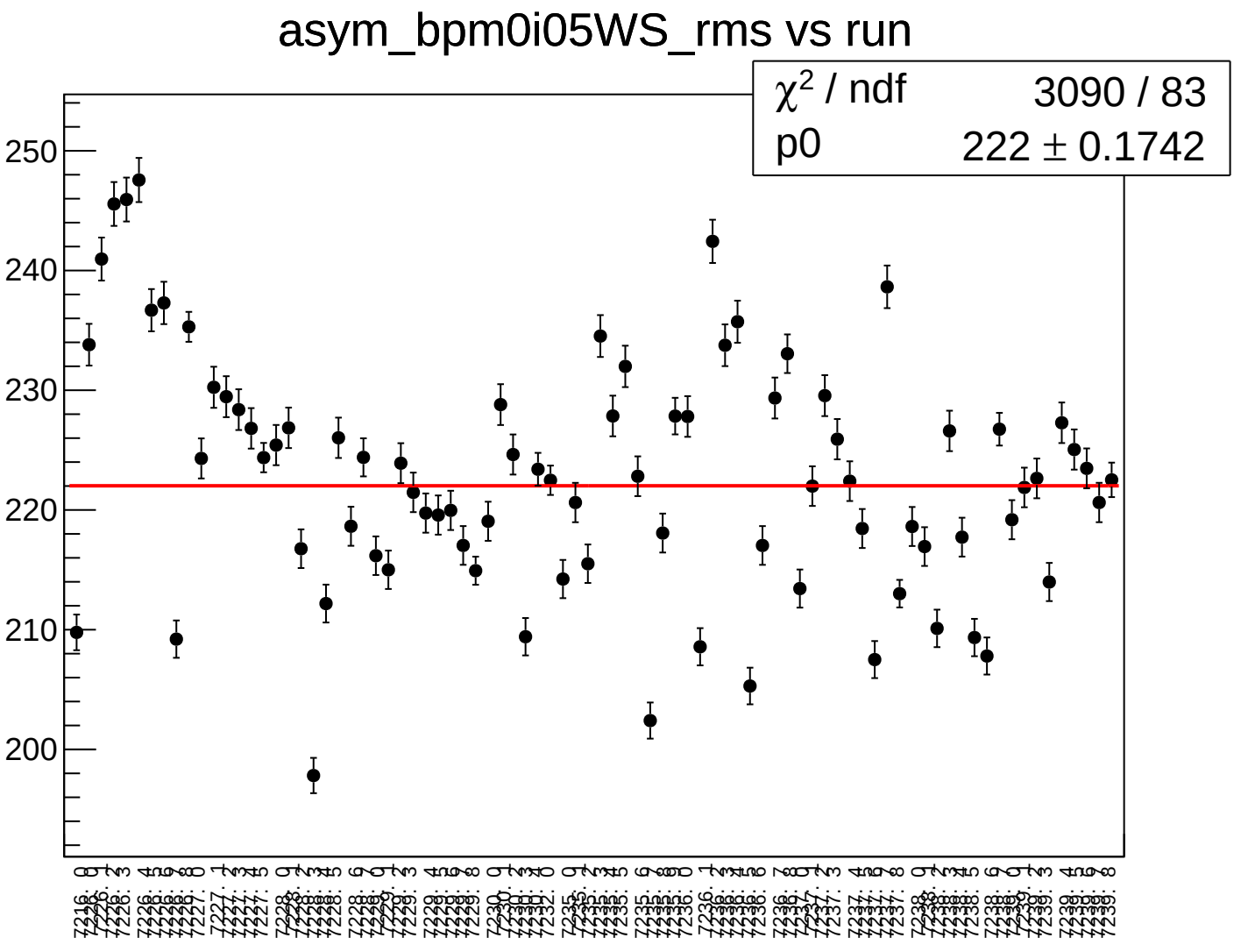

asym_bpm0i02aWS_mean vs run
χ² / ndf 453.3 / 83
p0 8163 ± 216.8
15000
10000
5000
0
−5000
pull
Entries 84
Mean 2616
Std Dev 0
4
2
0
−2
−4
−6

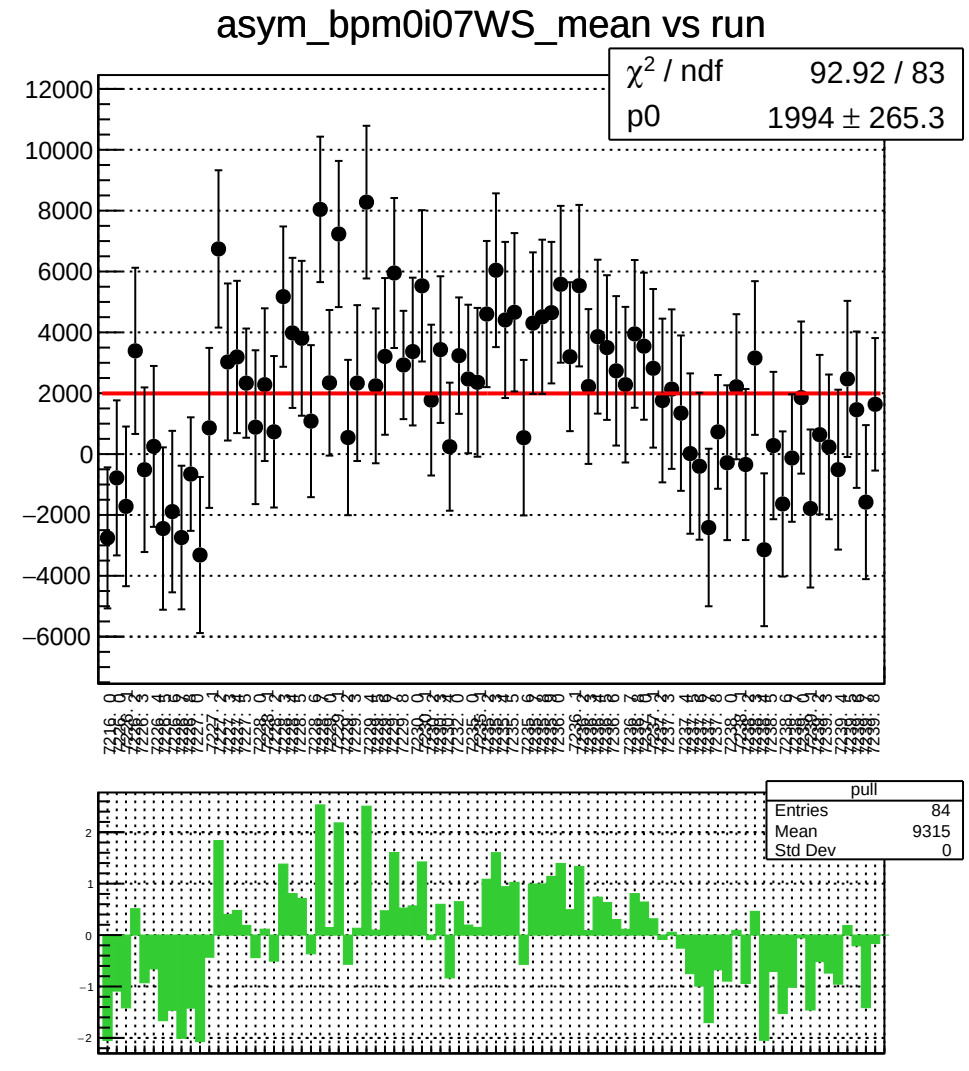

pull1D
Entries 84
Mean 0.004839
Std Dev 2.323
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

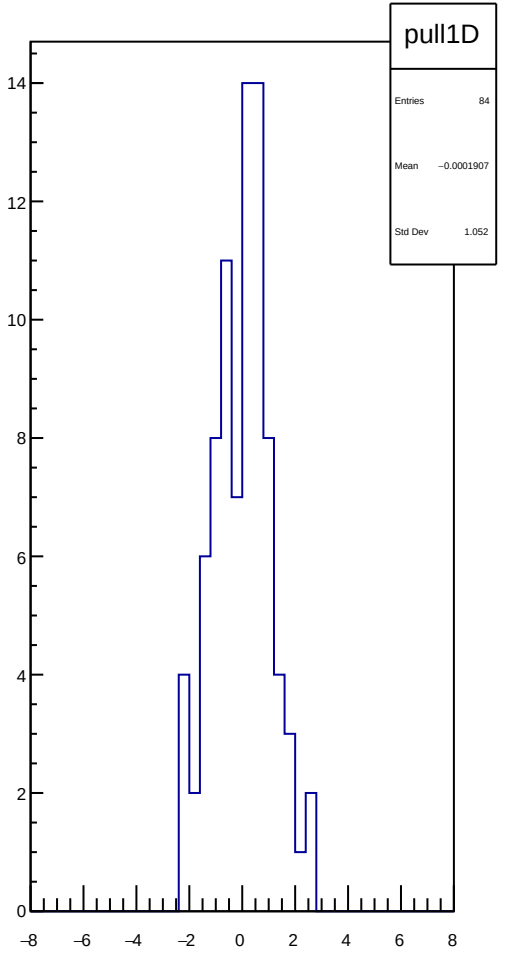

asym_bpm0i02aWS_rms vs run
χ^2 / ndf 1979 / 83
p0 195.4 ± 0.1533
215
210
205
200
195
190
185
180
175

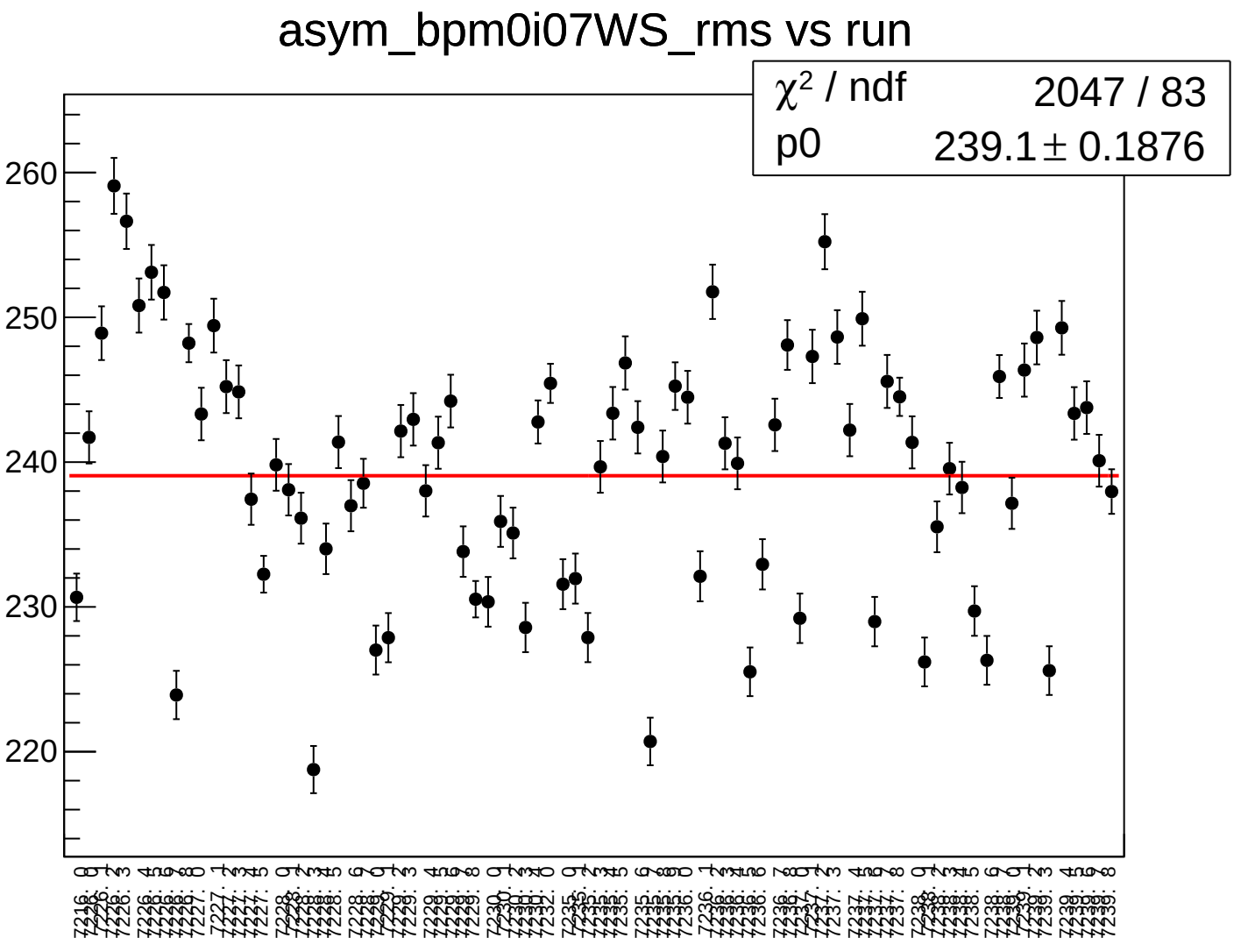

asym_bpm0i05WS_mean vs run
χ² / ndf 116.3 / 83
p0 2633 ± 246.4
pull
Entries 84
Mean 358.5
Std Dev 175.6

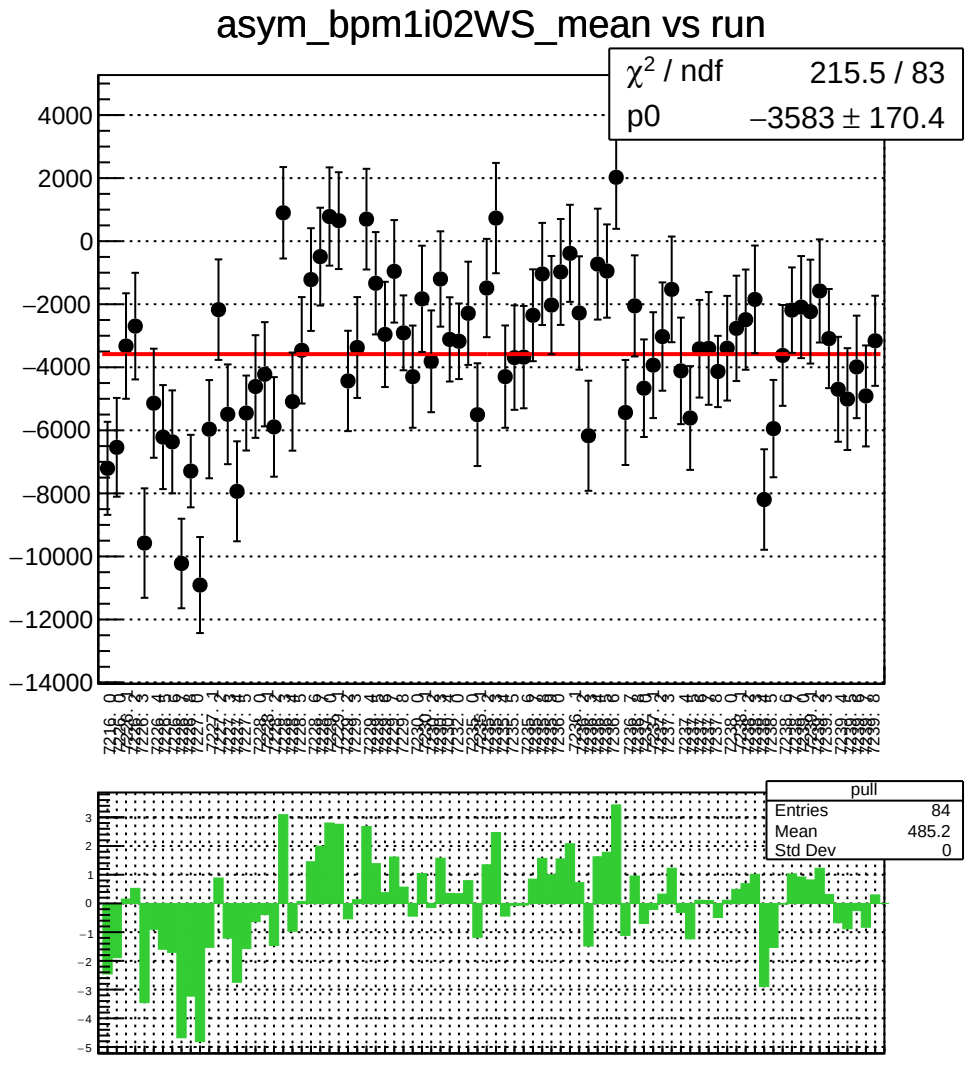

pull1D
Entries 84
Mean −0.003365
Std Dev 1.176

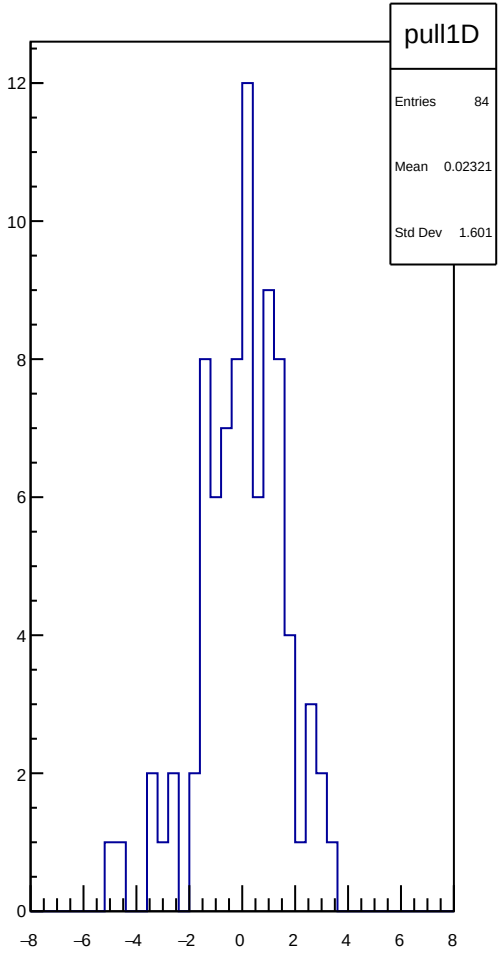

asym_bpm0i05WS_rms vs run
χ² / ndf 3090 / 83
p0 222 ± 0.1742
250
240
230
220
210
200

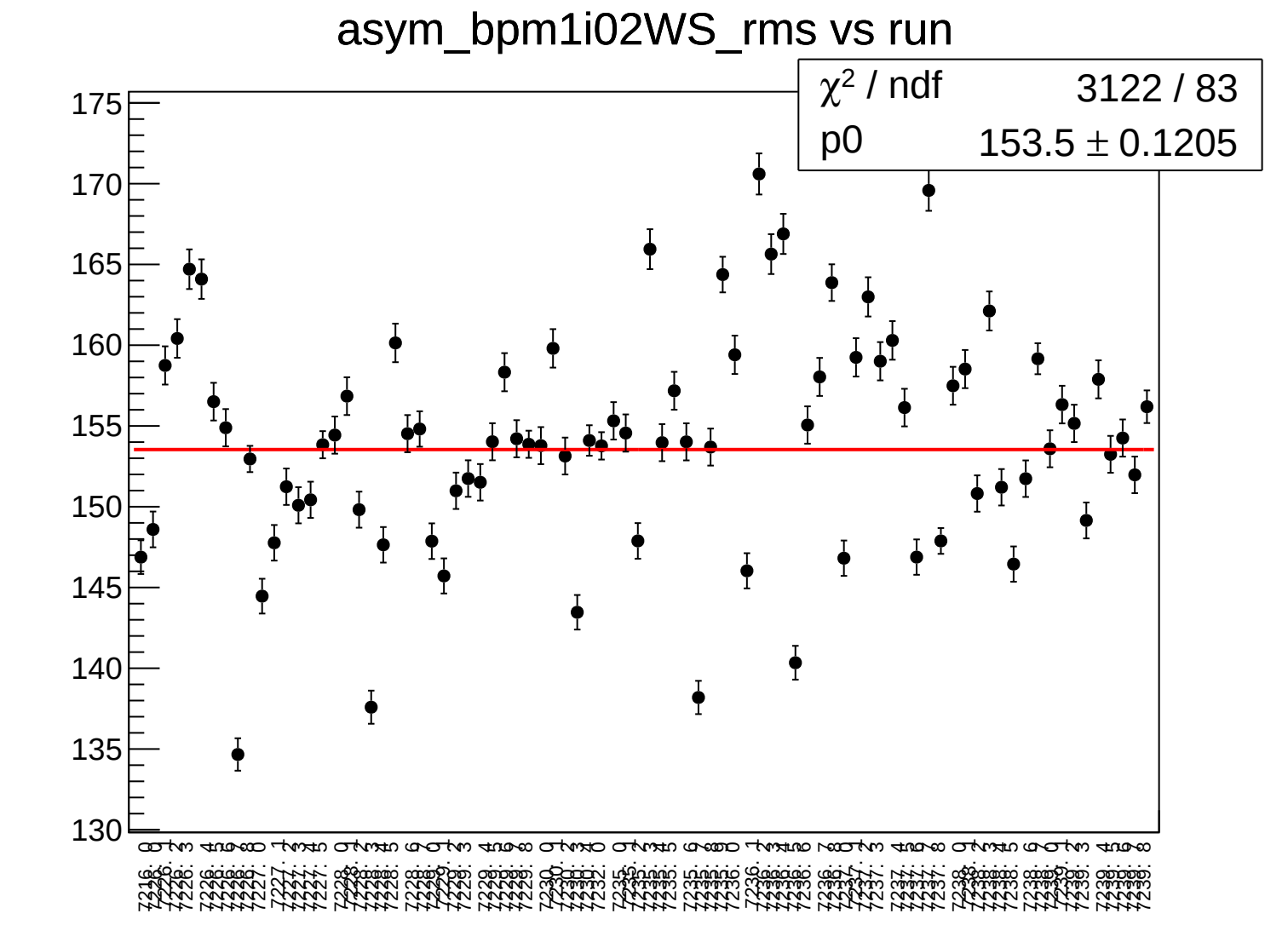

asym_bpm0i07WS_mean vs run
χ² / ndf 92.92 / 83
p0 1994 ± 265.3
pull
Entries 84
Mean 9315
Std Dev 0

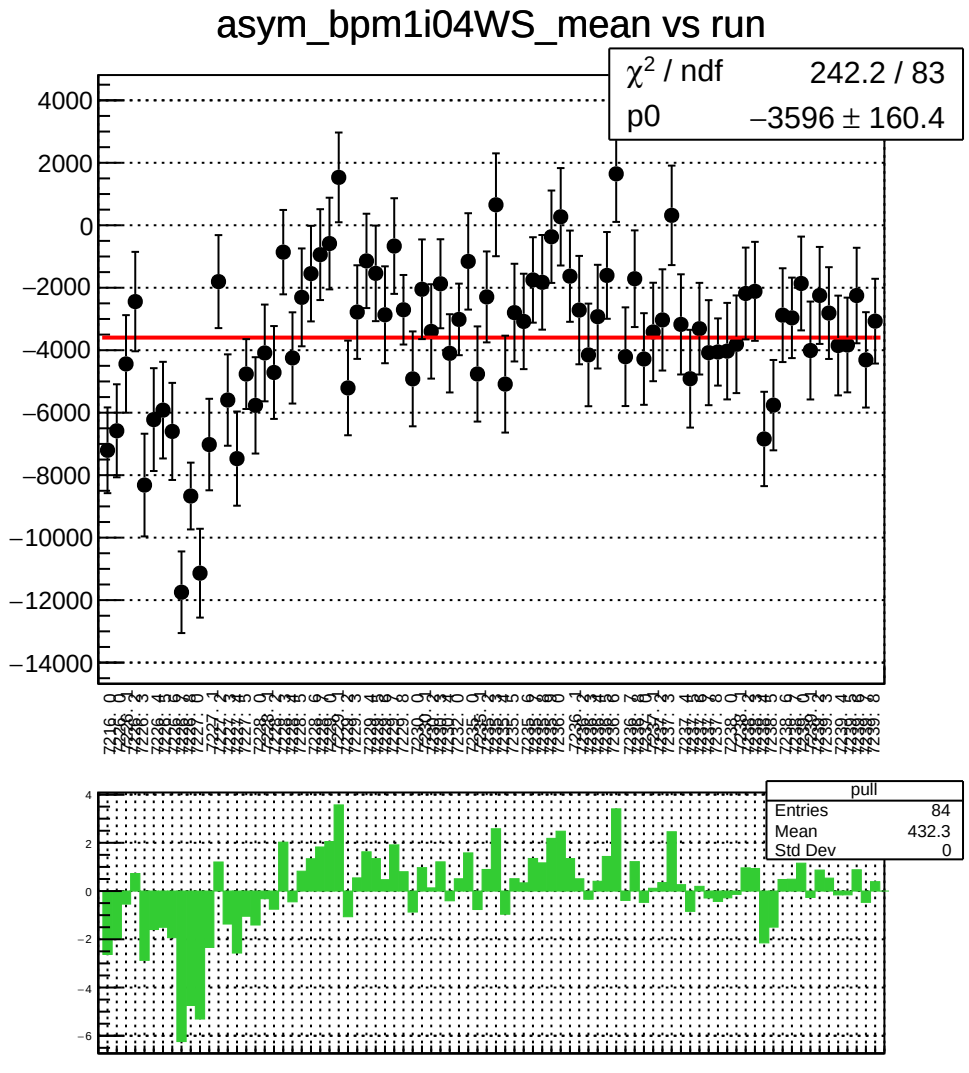

pull1D
Entries 84
Mean −0.0001907
Std Dev 1.052

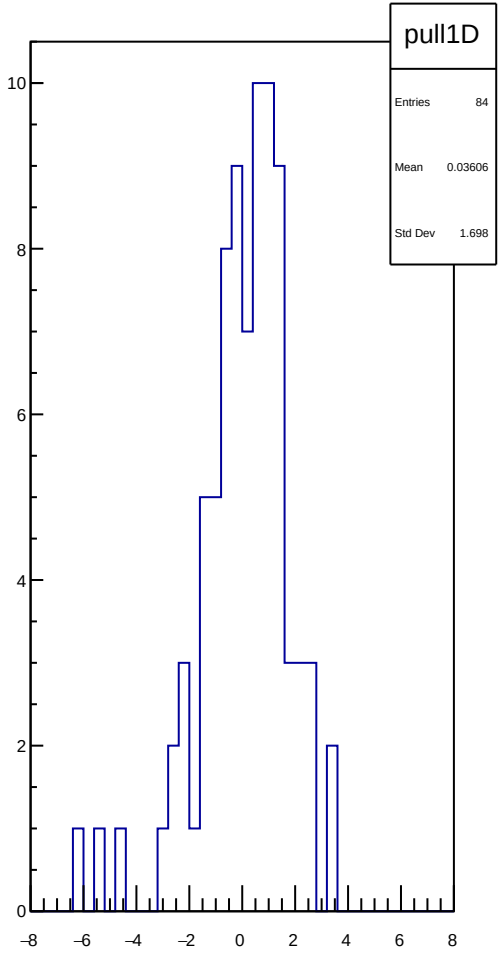

asym_bpm0i07WS_rms vs run
χ² / ndf 2047 / 83
p0 239.1 ± 0.1876
260
250
240
230
220

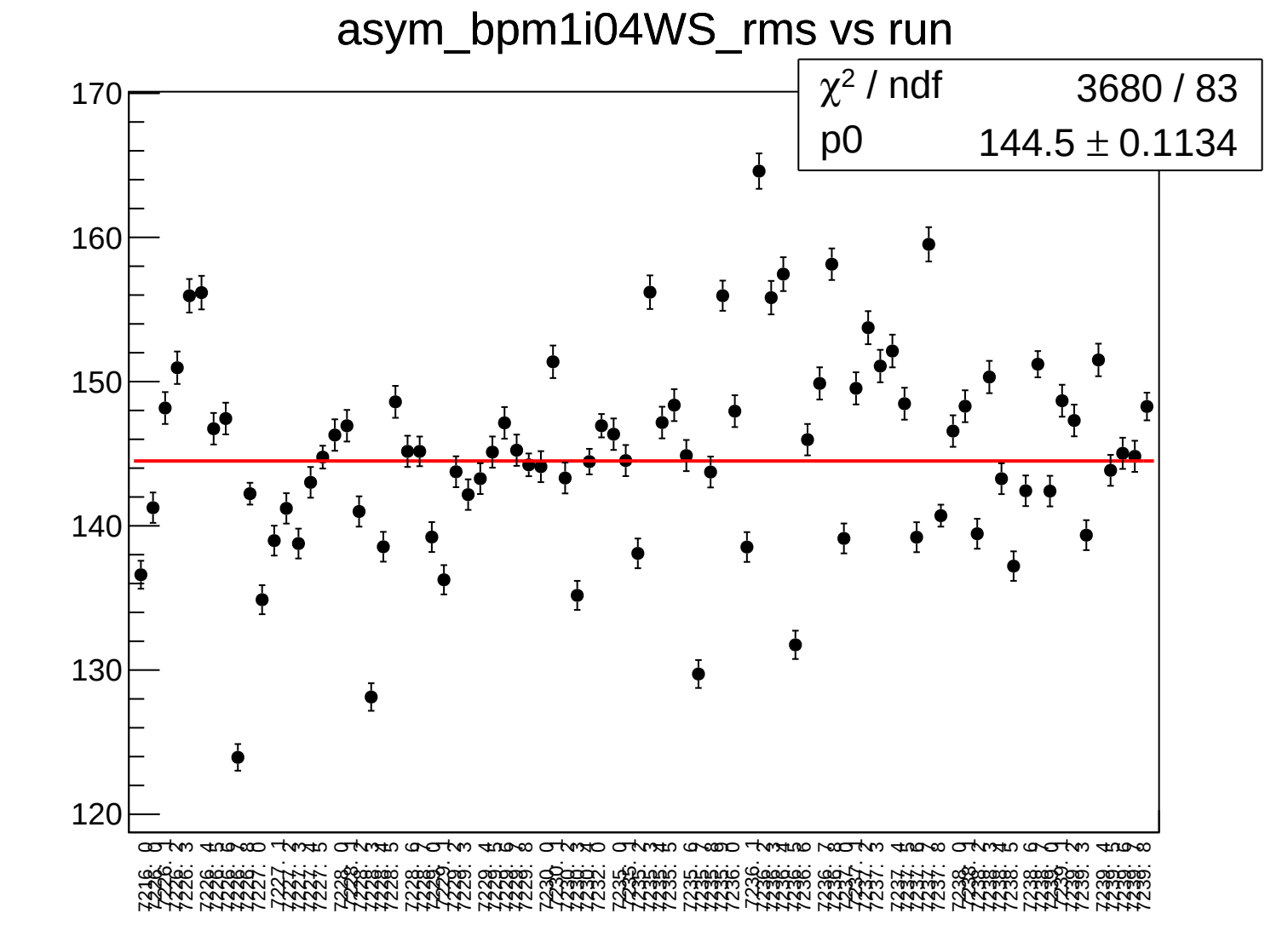

asym_bpm1i02WS_mean vs run
χ² / ndf 215.5 / 83
p0 −3583 ± 170.4
pull
Entries 84
Mean 485.2
Std Dev 0

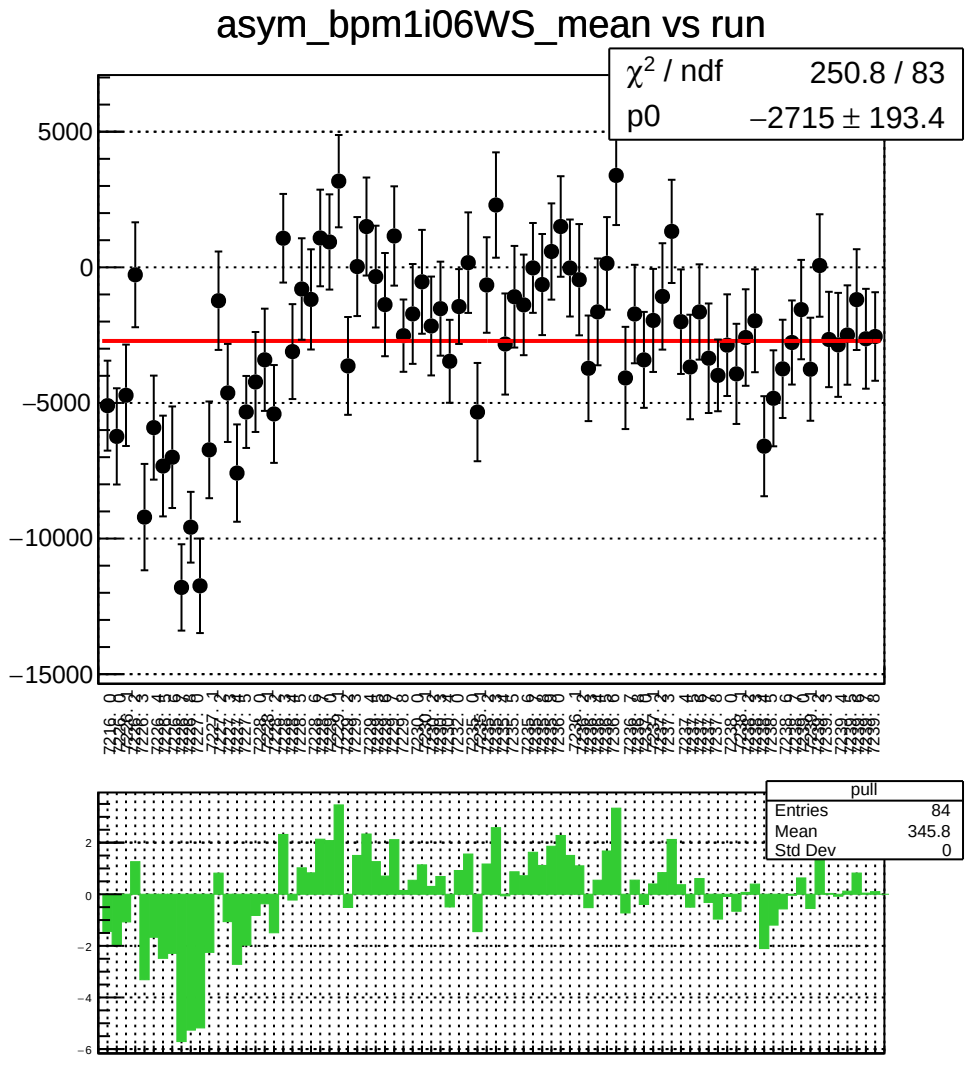

pull1D
Entries 84
Mean 0.02321
Std Dev 1.601

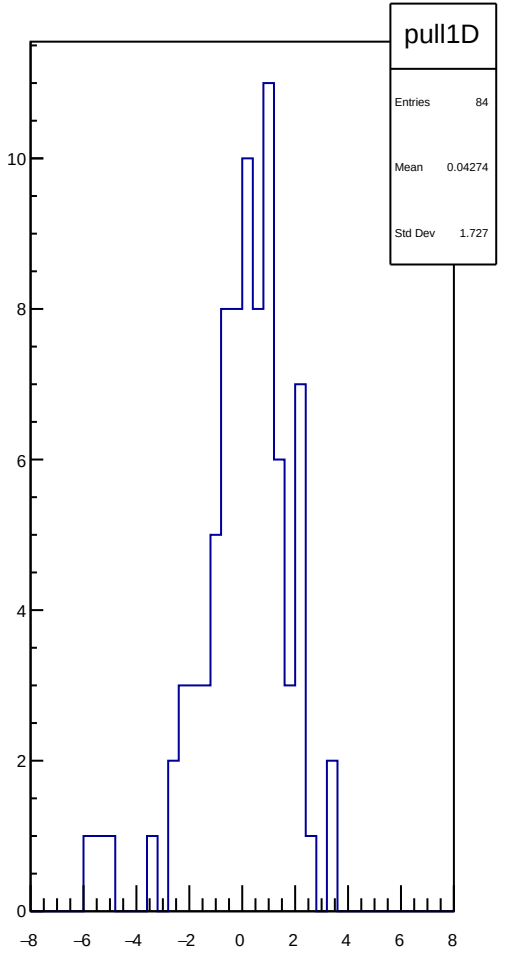

asym_bpm1i02WS_rms vs run
χ^2 / ndf 3122 / 83
p0 153.5 ± 0.1205
175
170
165
160
155
150
145
140
135
130

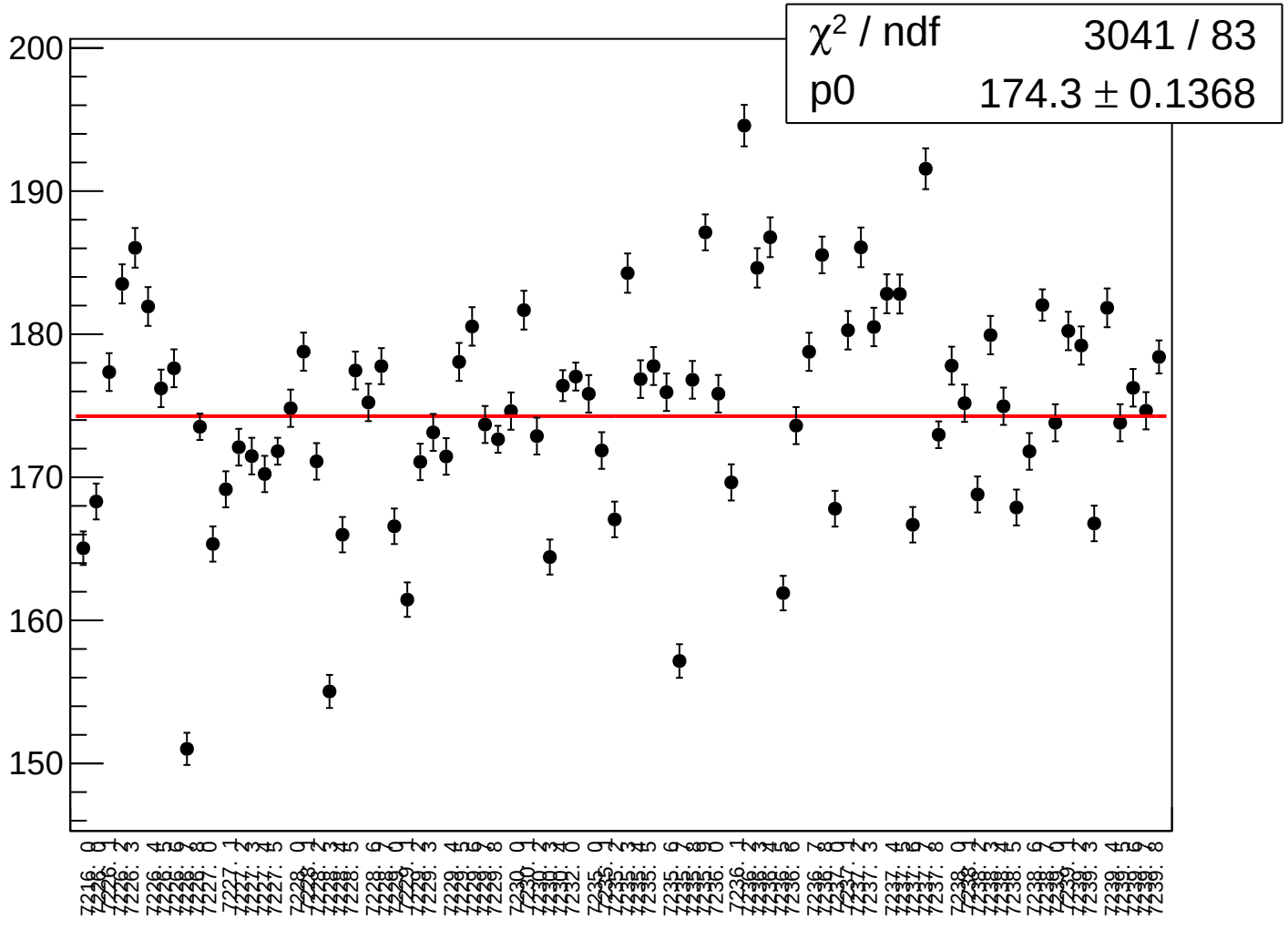

asym_bpm1i04WS_mean vs run
χ² / ndf 242.2 / 83
p0 −3596 ± 160.4
pull
Entries 84
Mean 432.3
Std Dev 0

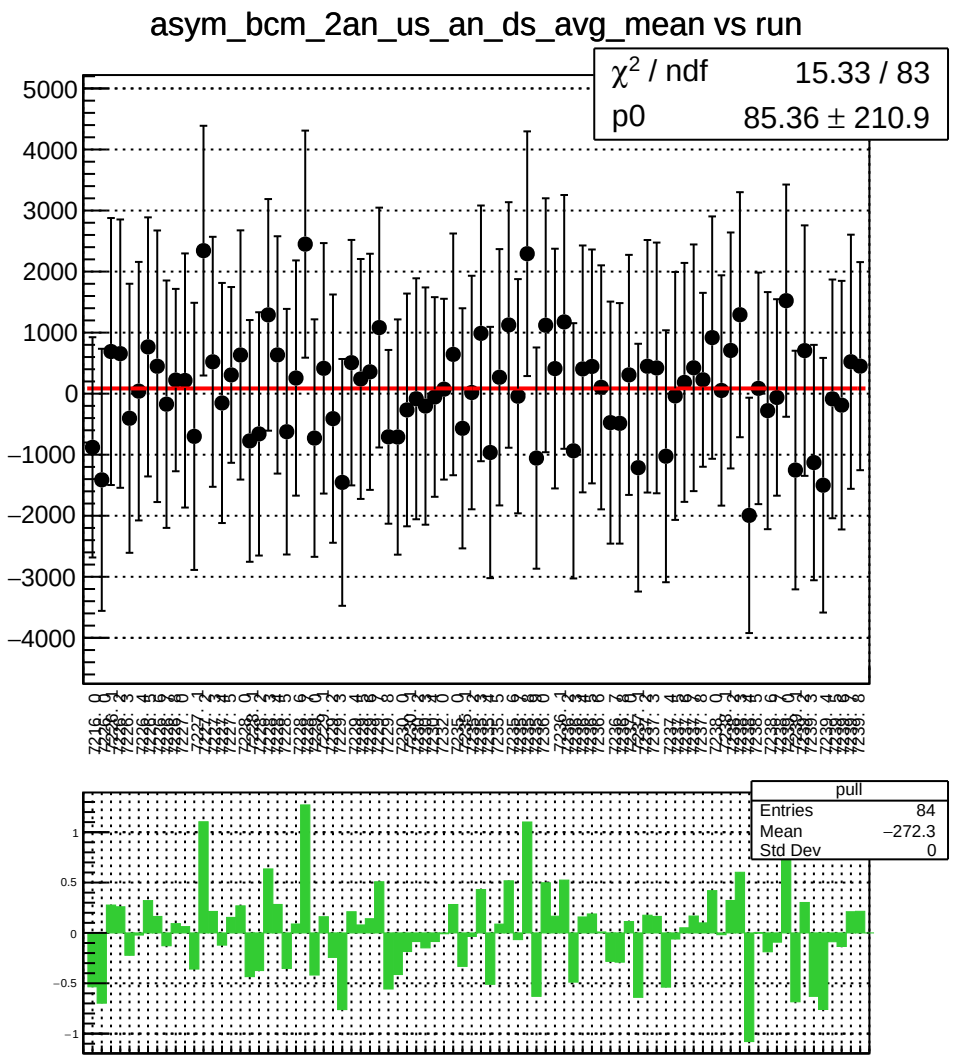

pull1D
Entries 84
Mean 0.03606
Std Dev 1.698

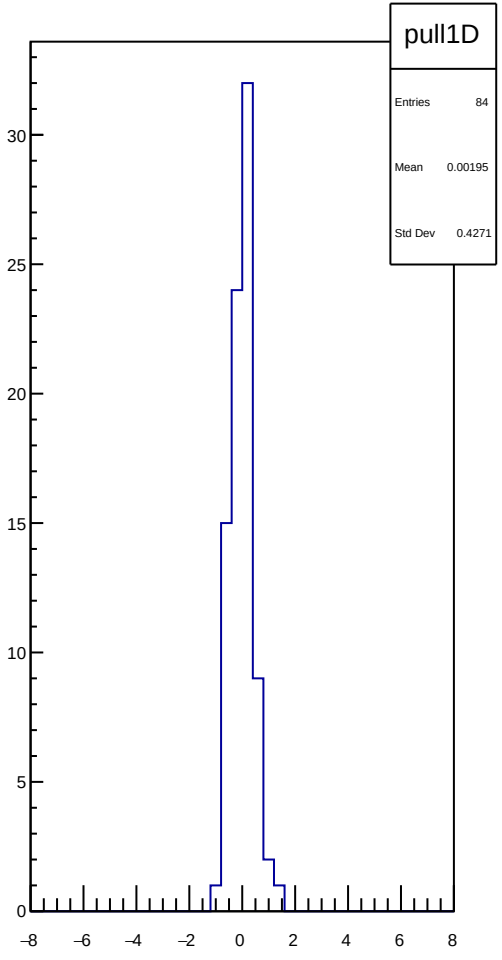

asym_bpm1i04WS_rms vs run
χ^2 / ndf 3680 / 83
p0 144.5 ± 0.1134
170
160
150
140
130
120

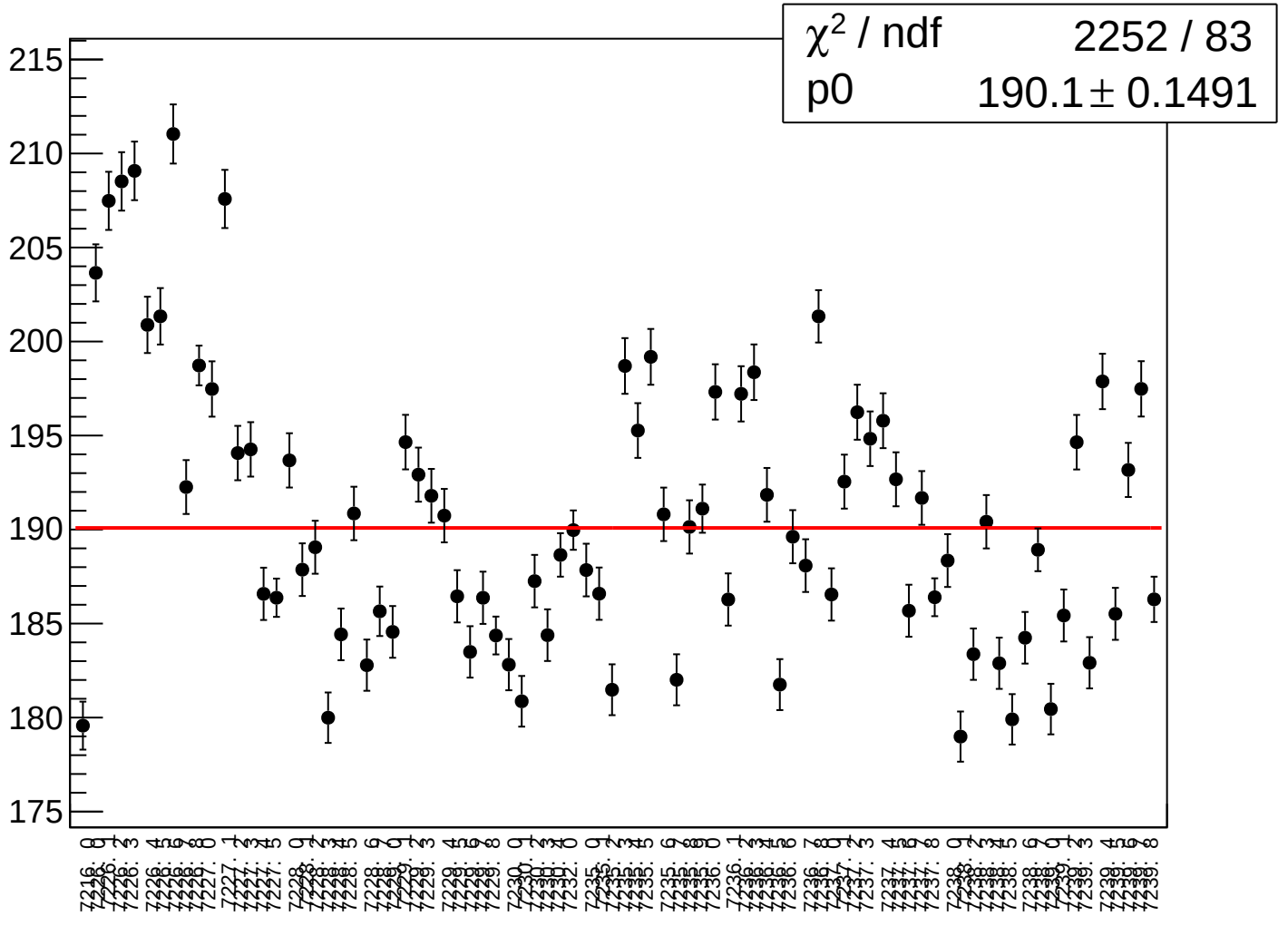

asym_bpm1i06WS_mean vs run
χ² / ndf 250.8 / 83
p0 −2715 ± 193.4
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 345.8
Std Dev 0
2
0
−2
−4
−6

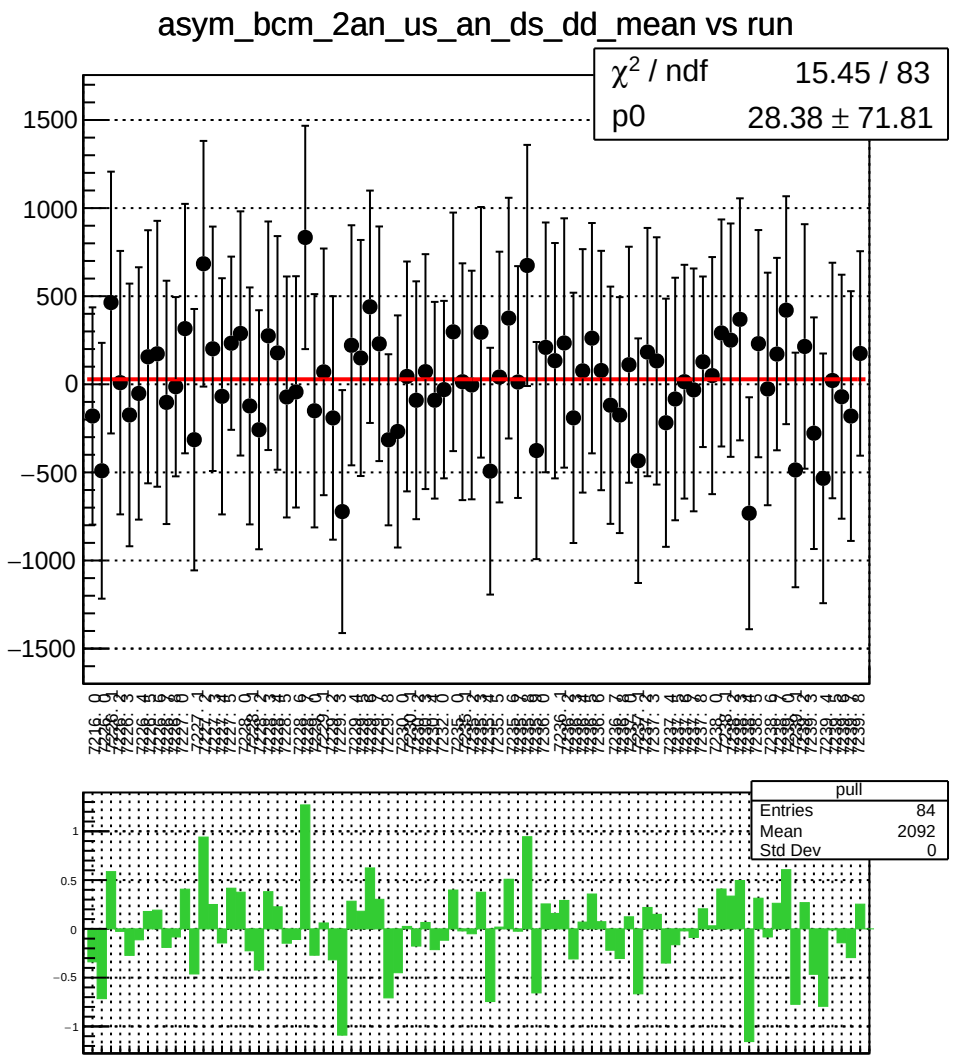

pull1D
Entries 84
Mean 0.04274
Std Dev 1.727
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

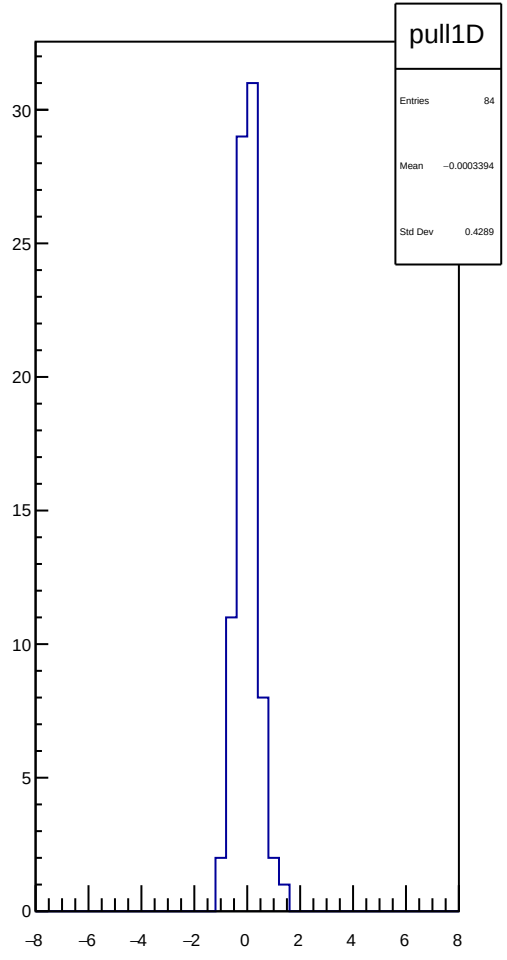

asym_bpm1i06WS_rms vs run
χ² / ndf 3041 / 83
p0 174.3 ± 0.1368
200
190
180
170
160
150

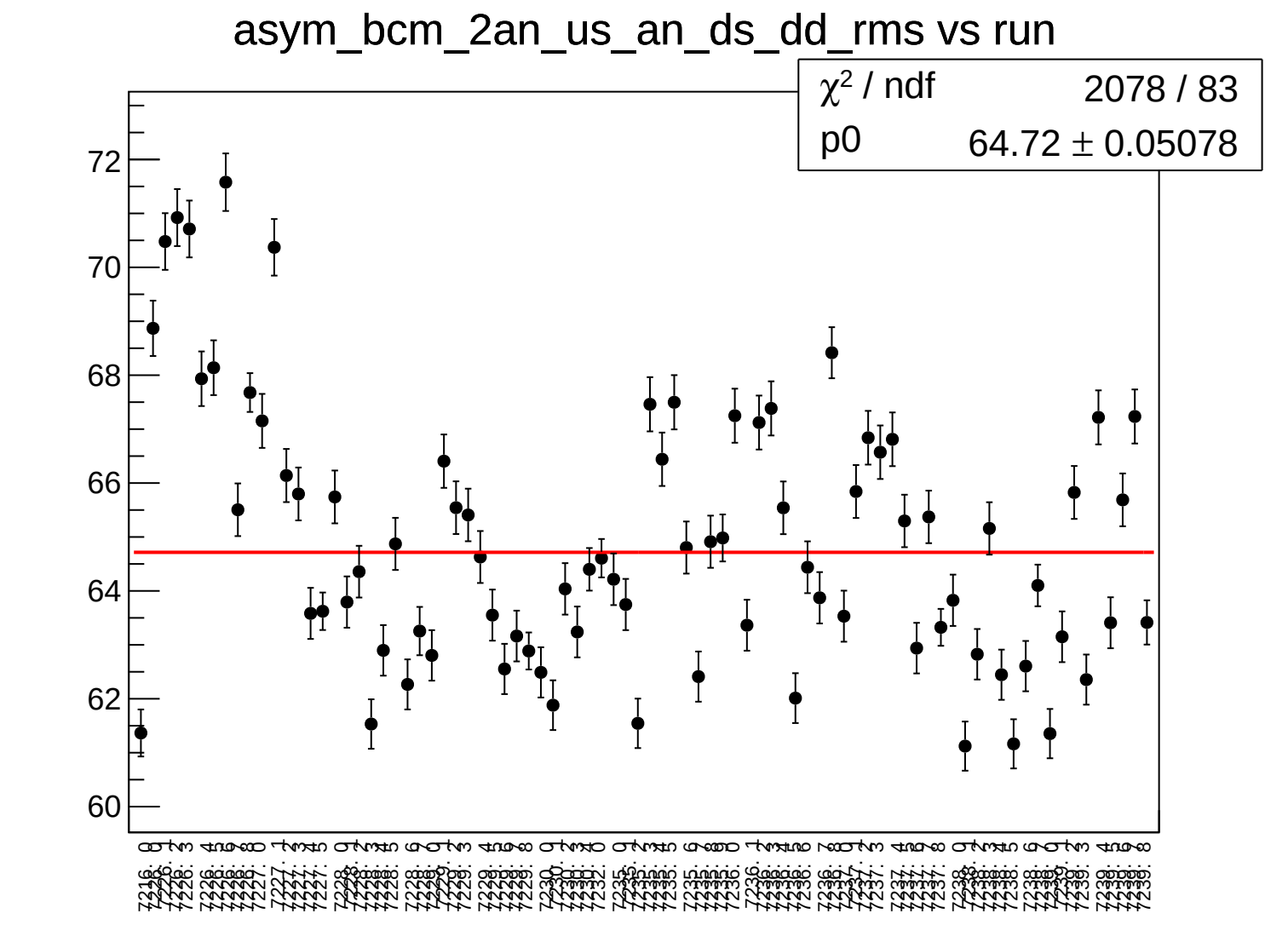

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 15.33 / 83
p0 85.36 ± 210.9
pull
Entries 84
Mean −272.3
Std Dev 0

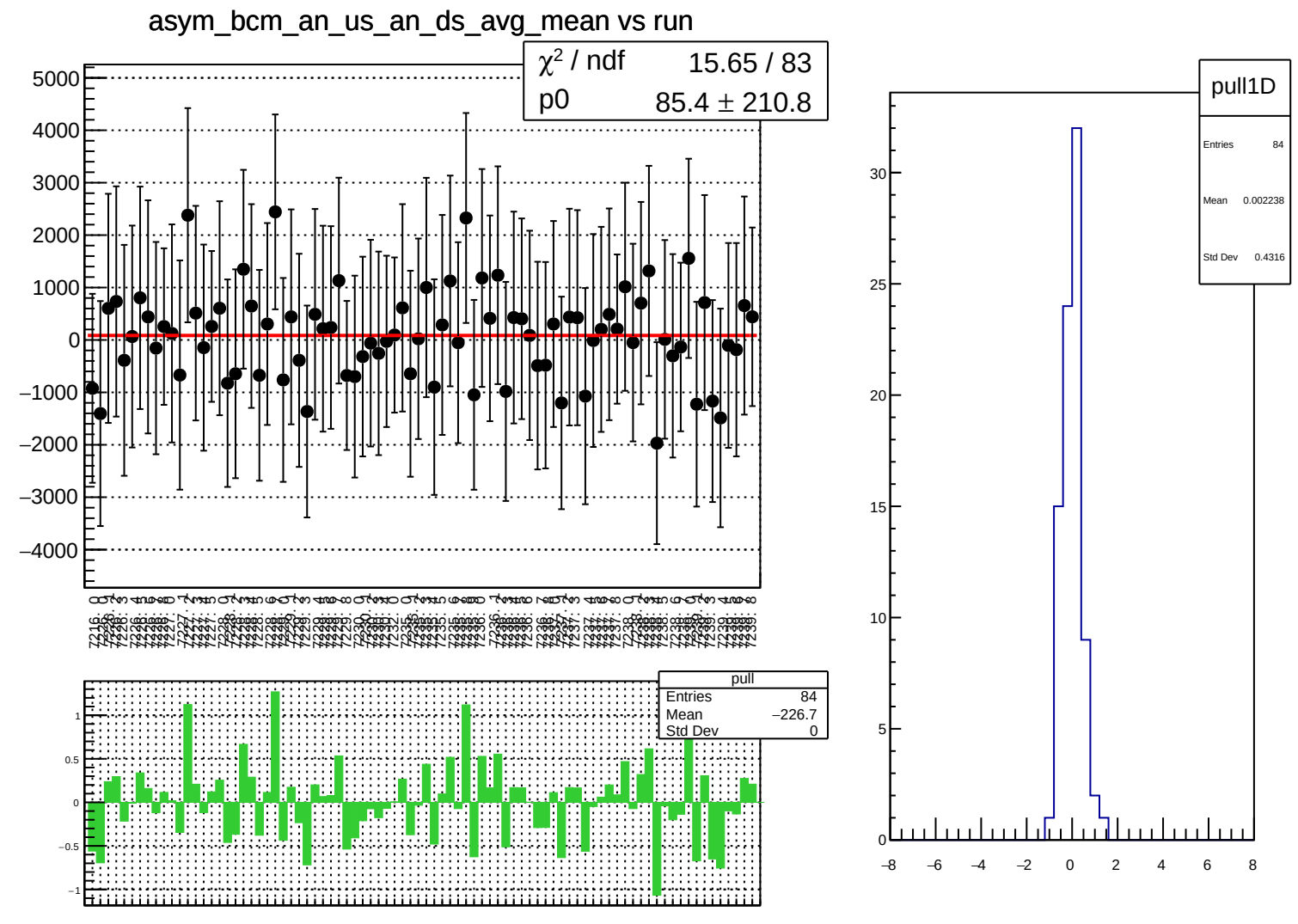

pull1D
Entries 84
Mean 0.00195
Std Dev 0.4271

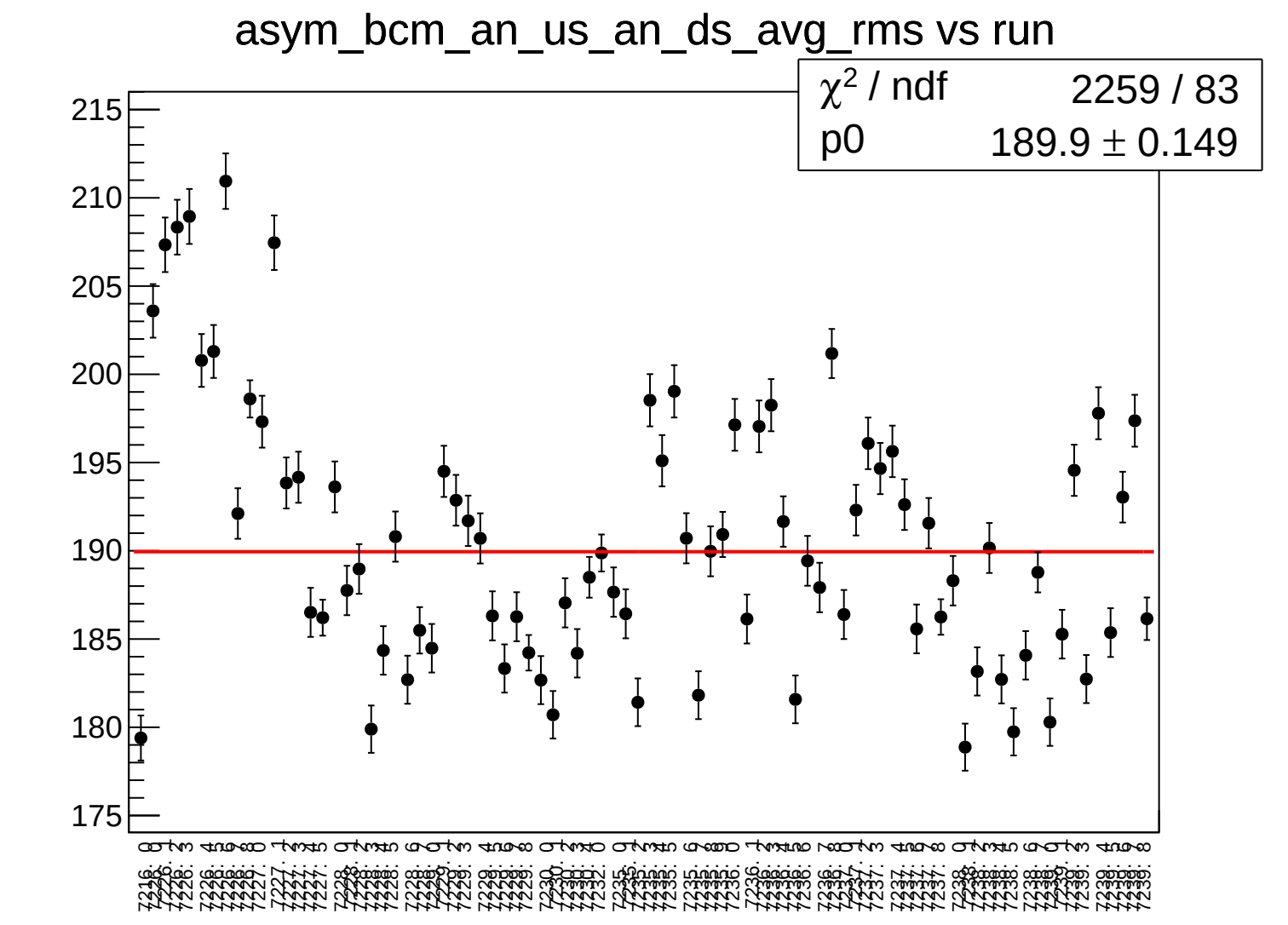

asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 2252 / 83
p0 190.1 ± 0.1491
215
210
205
200
195
190
185
180
175

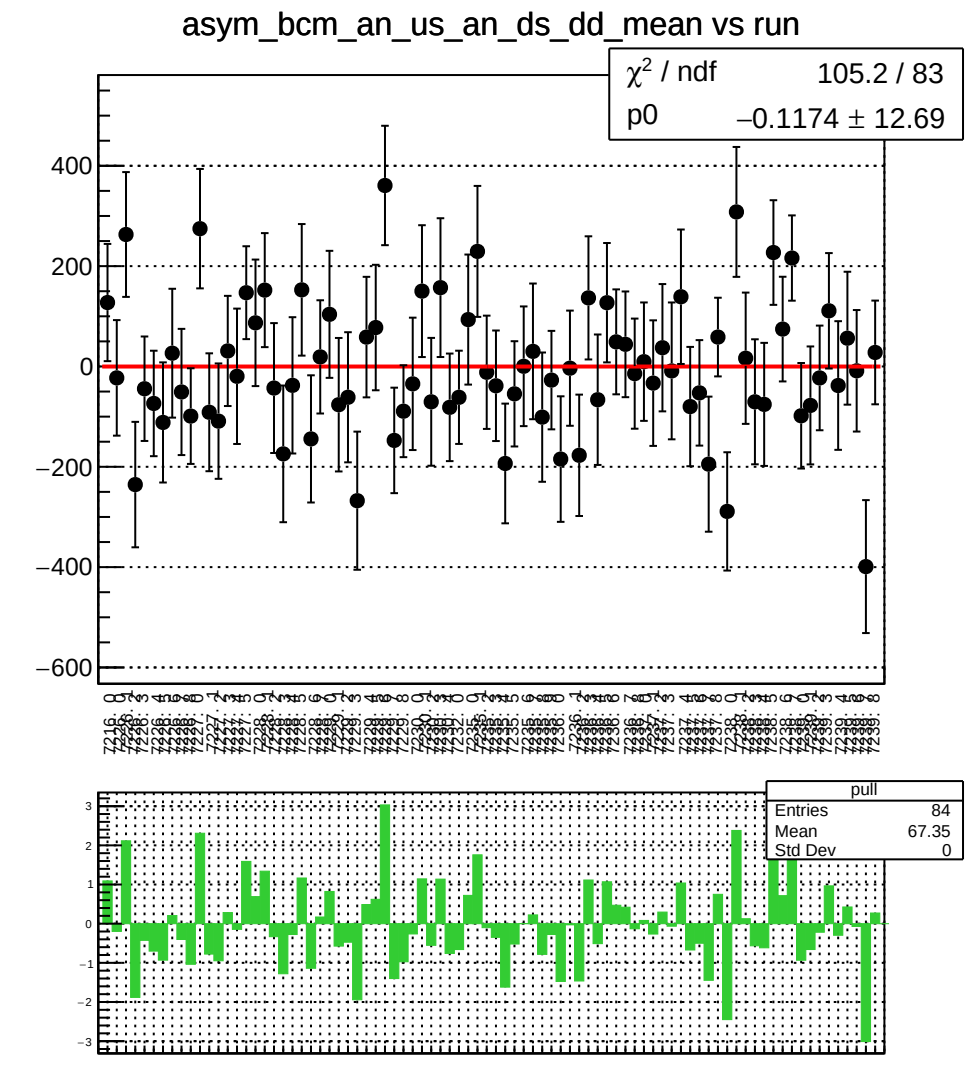

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 15.45 / 83
p0 28.38 ± 71.81
1500
1000
500
0
−500
−1000
−1500
pull
Entries 84
Mean 2092
Std Dev 0
1
0.5
0
−0.5
−1

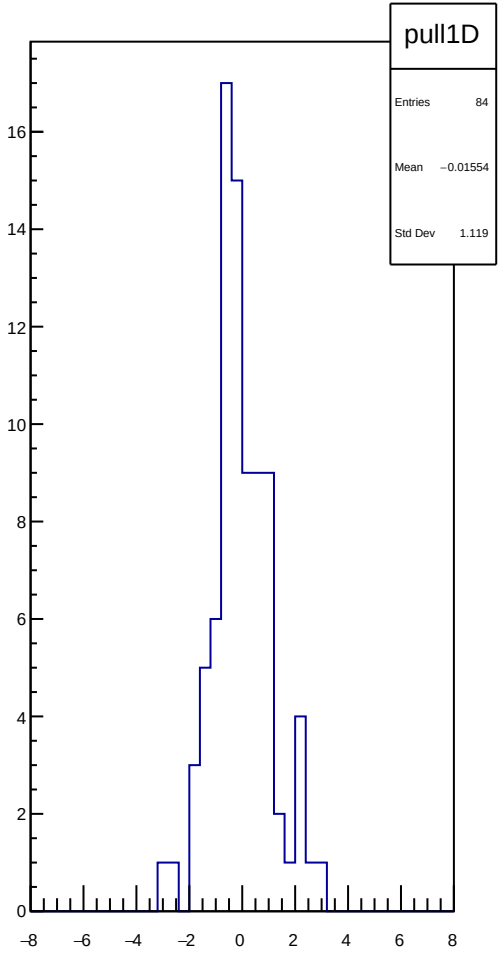

pull1D
Entries 84
Mean −0.0003394
Std Dev 0.4289
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

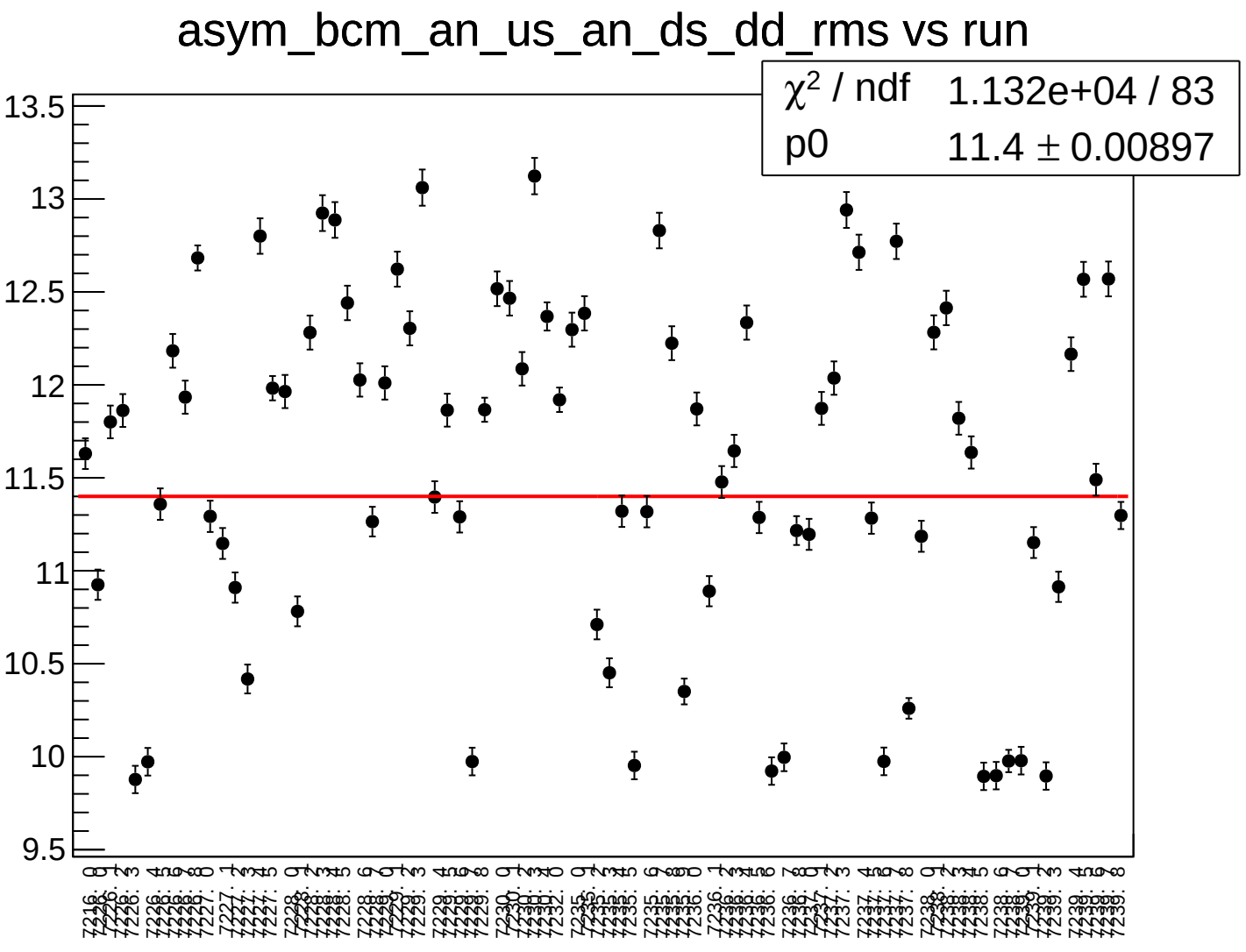

asym_bcm_2an_us_an_ds_dd_rms vs run
χ² / ndf 2078 / 83
p0 64.72 ± 0.05078
72
70
68
66
64
62
60

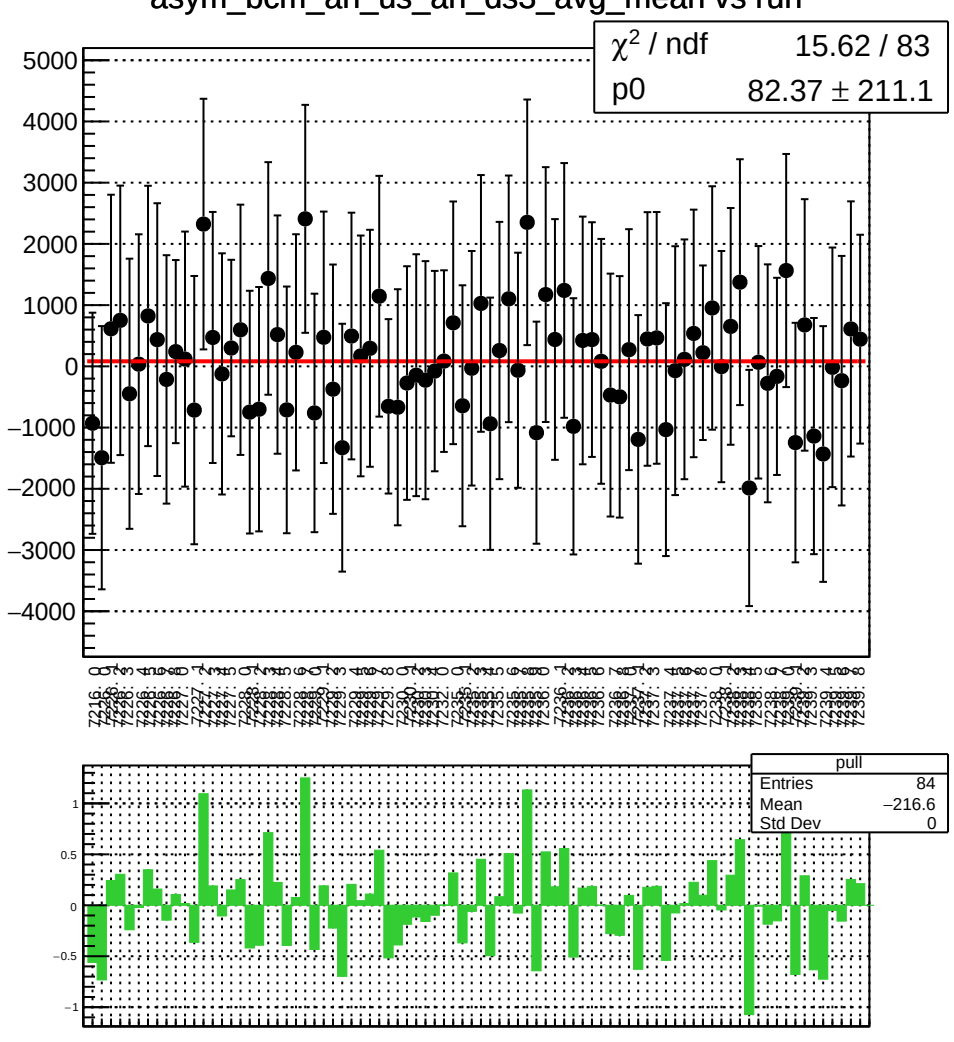

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 15.65 / 83
p0 85.4 ± 210.8
pull
Entries 84
Mean −226.7
Std Dev 0
pull1D
Entries 84
Mean 0.002238
Std Dev 0.4316

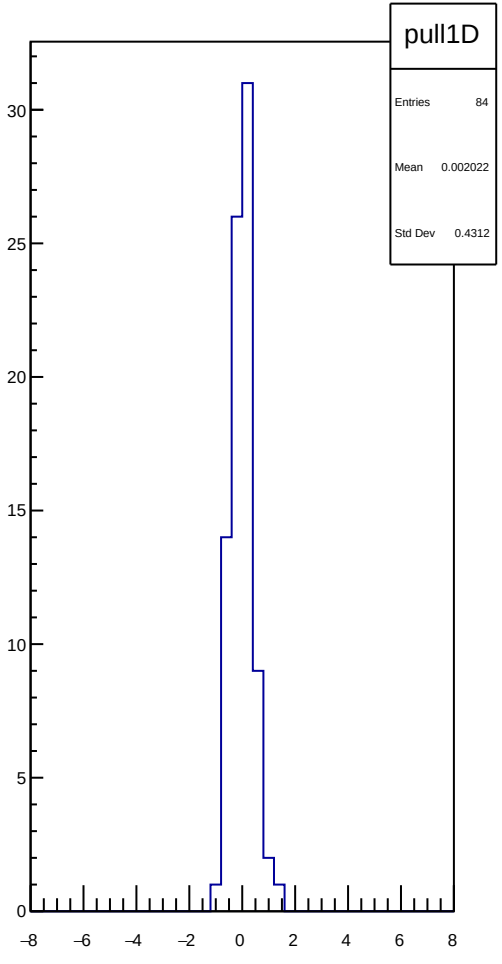

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 2259 / 83
p0 189.9 ± 0.149
215
210
205
200
195
190
185
180
175

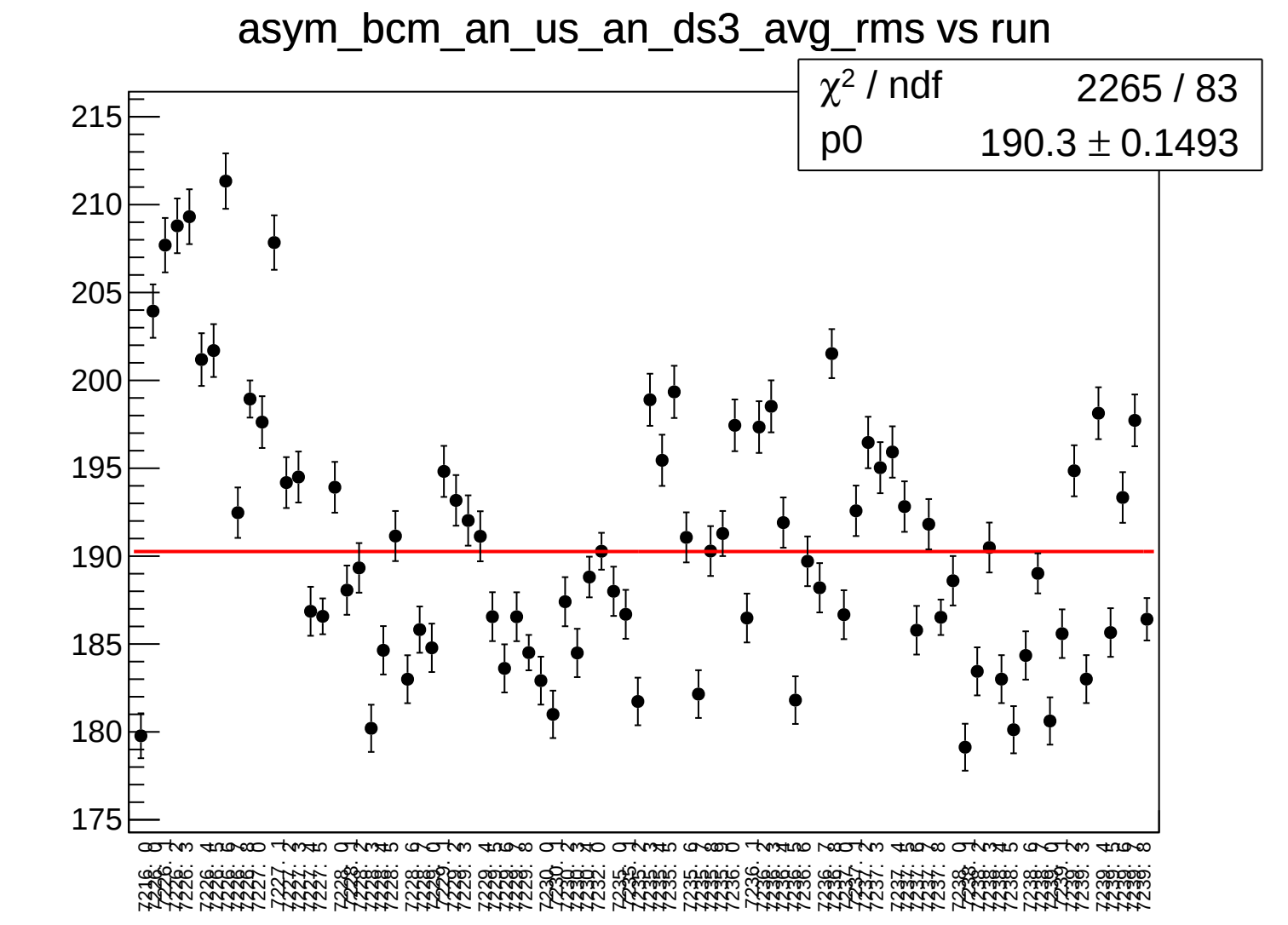

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 105.2 / 83
p0 −0.1174 ± 12.69
pull
Entries 84
Mean 67.35
Std Dev 0

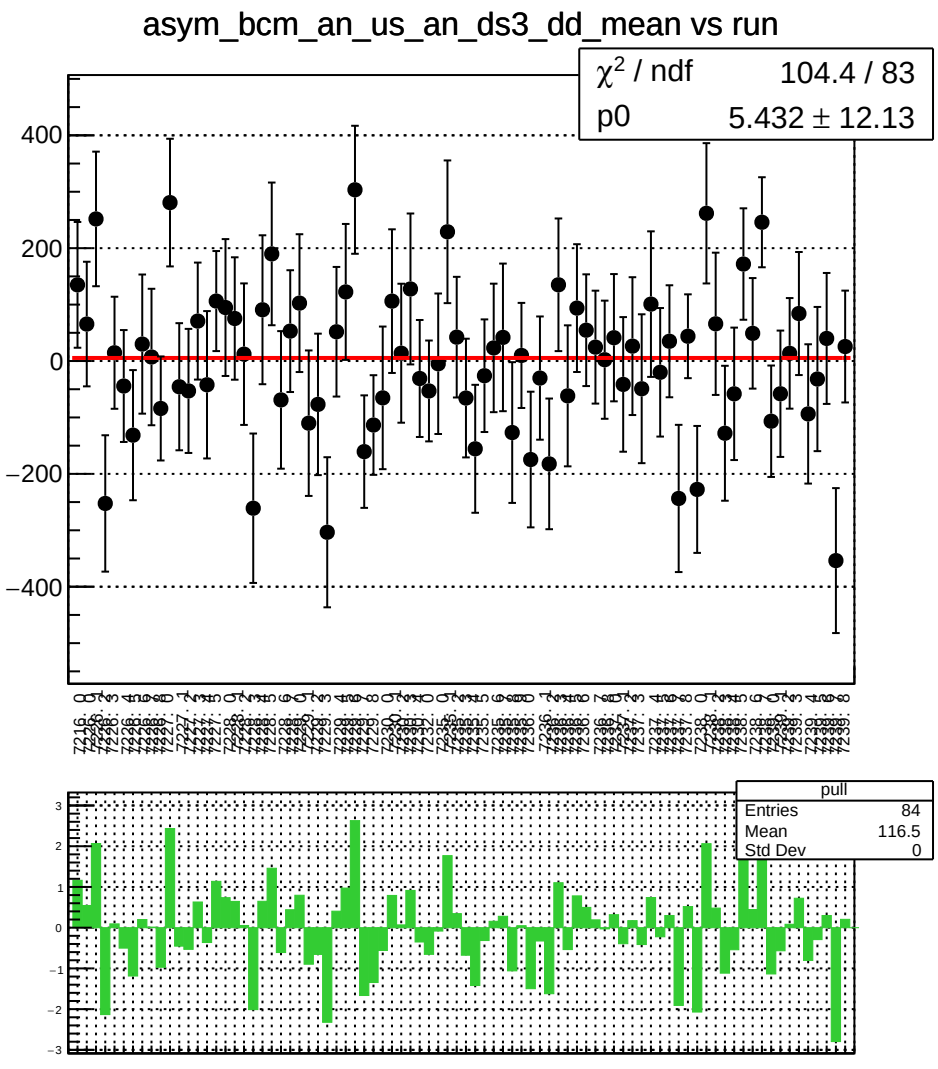

pull1D
Entries 84
Mean −0.01554
Std Dev 1.119

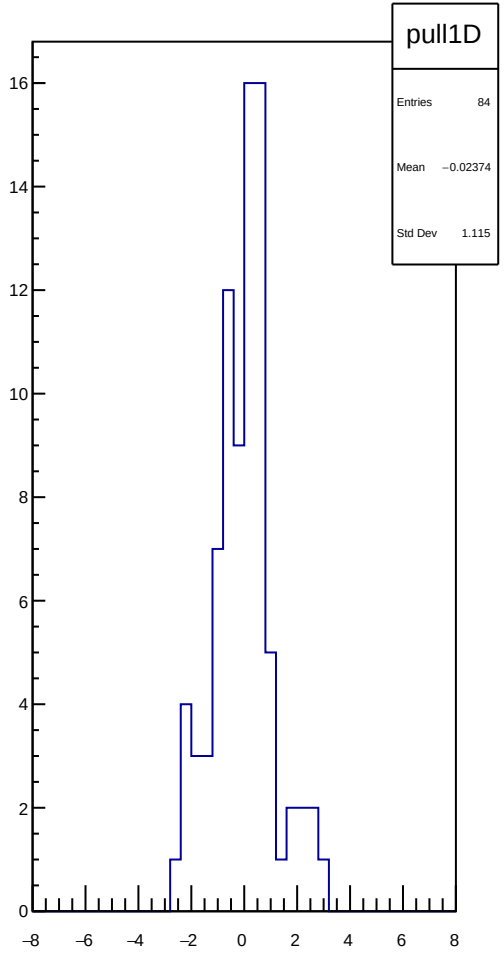

asym_bcm_an_us_an_ds_dd_rms vs run
χ² / ndf 1.132e+04 / 83
p0 11.4 ± 0.00897
13.5
13
12.5
12
11.5
11
10.5
10
9.5

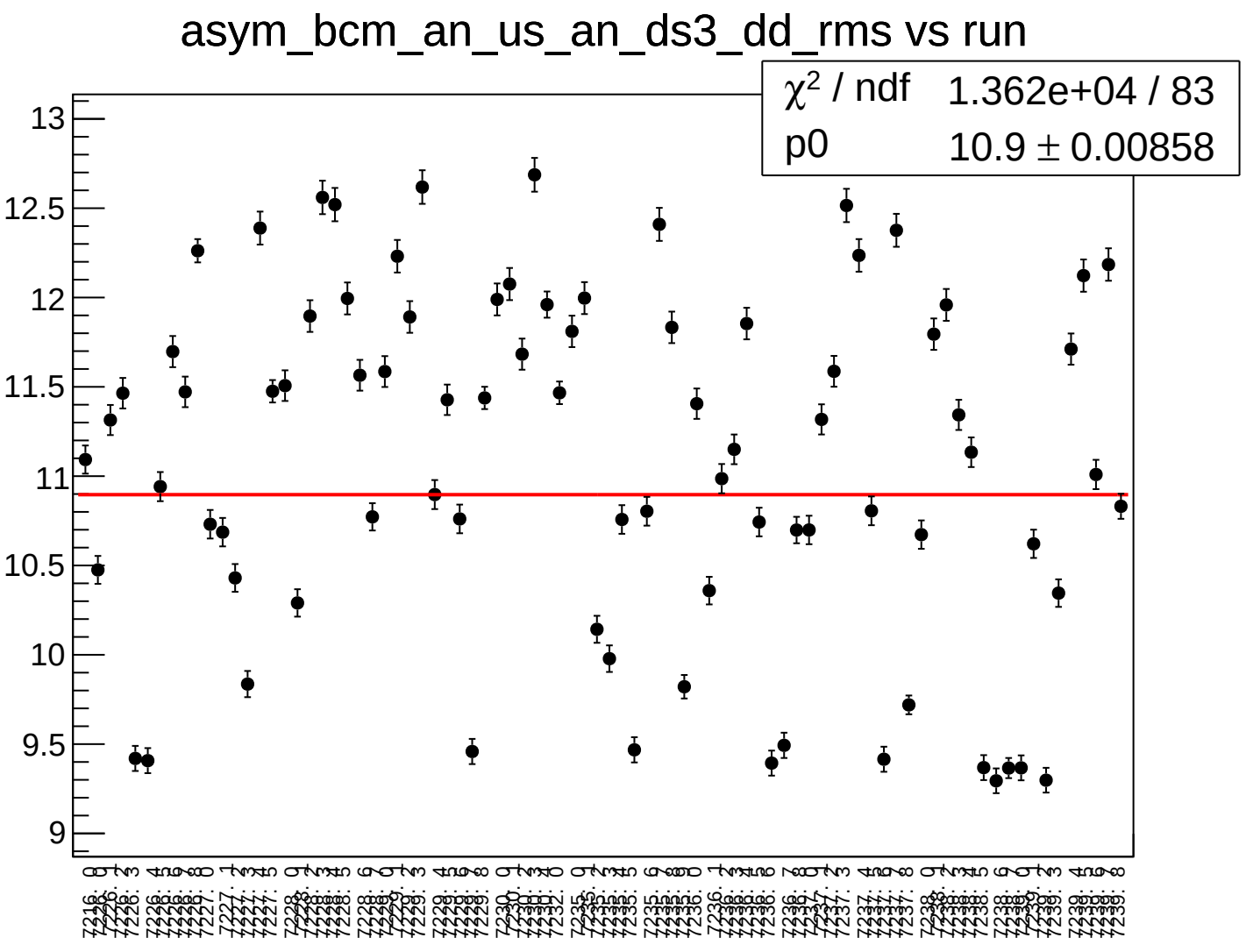

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 15.62 / 83
p0 82.37 ± 211.1
pull
Entries 84
Mean −216.6
Std Dev 0

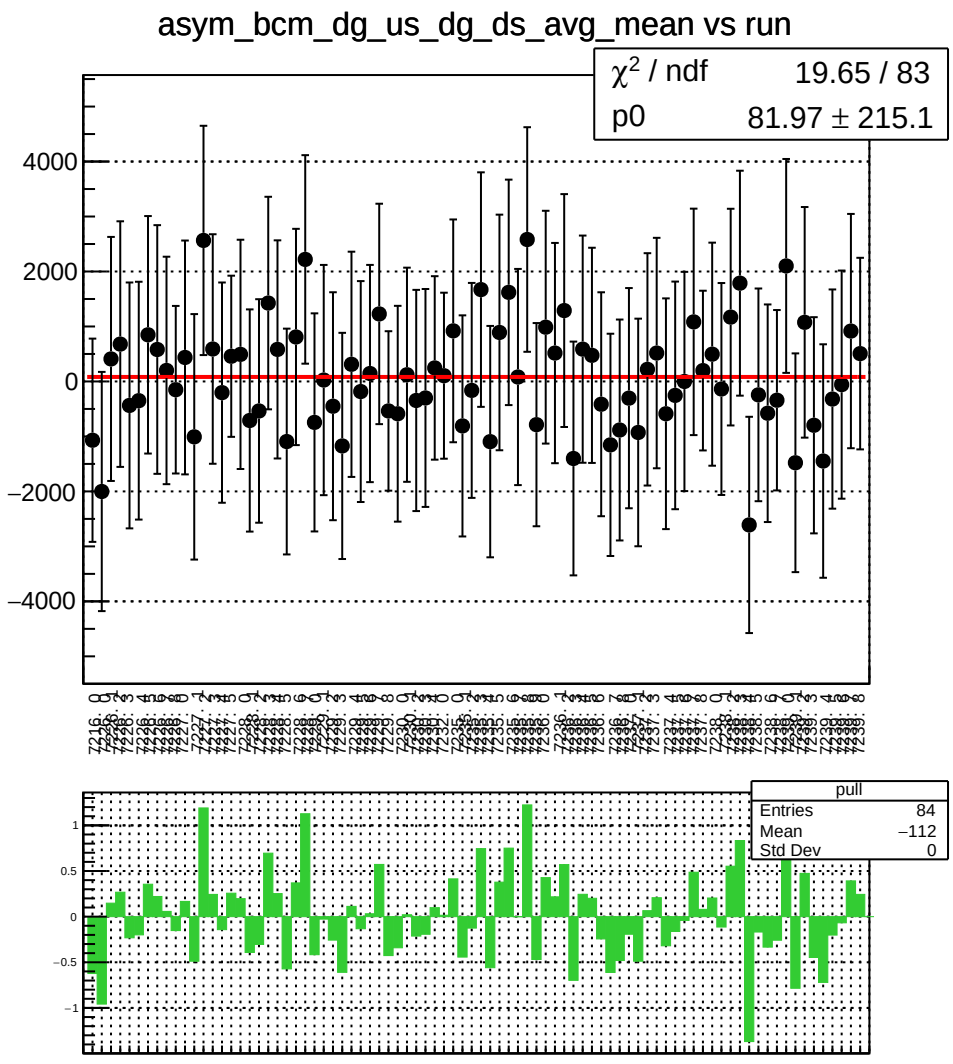

pull1D
Entries 84
Mean 0.002022
Std Dev 0.4312

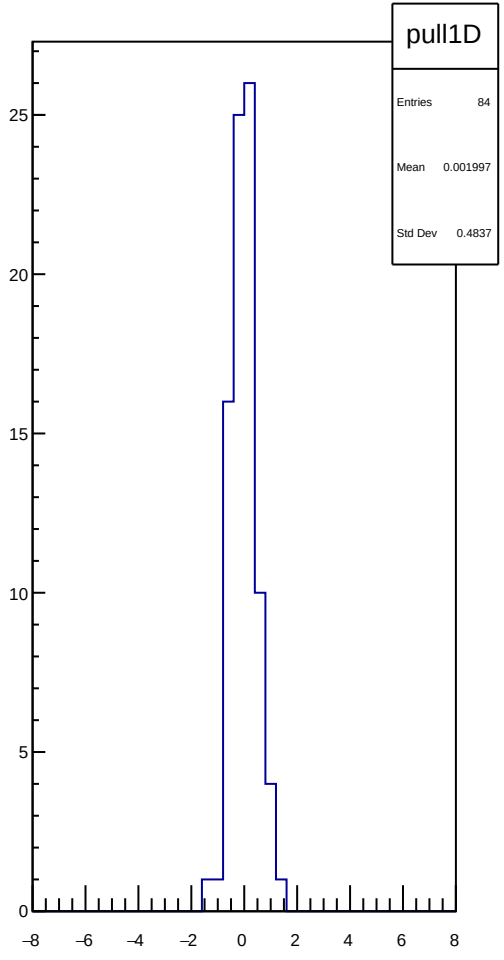

asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 2265 / 83
p0 190.3 ± 0.1493
215
210
205
200
195
190
185
180
175

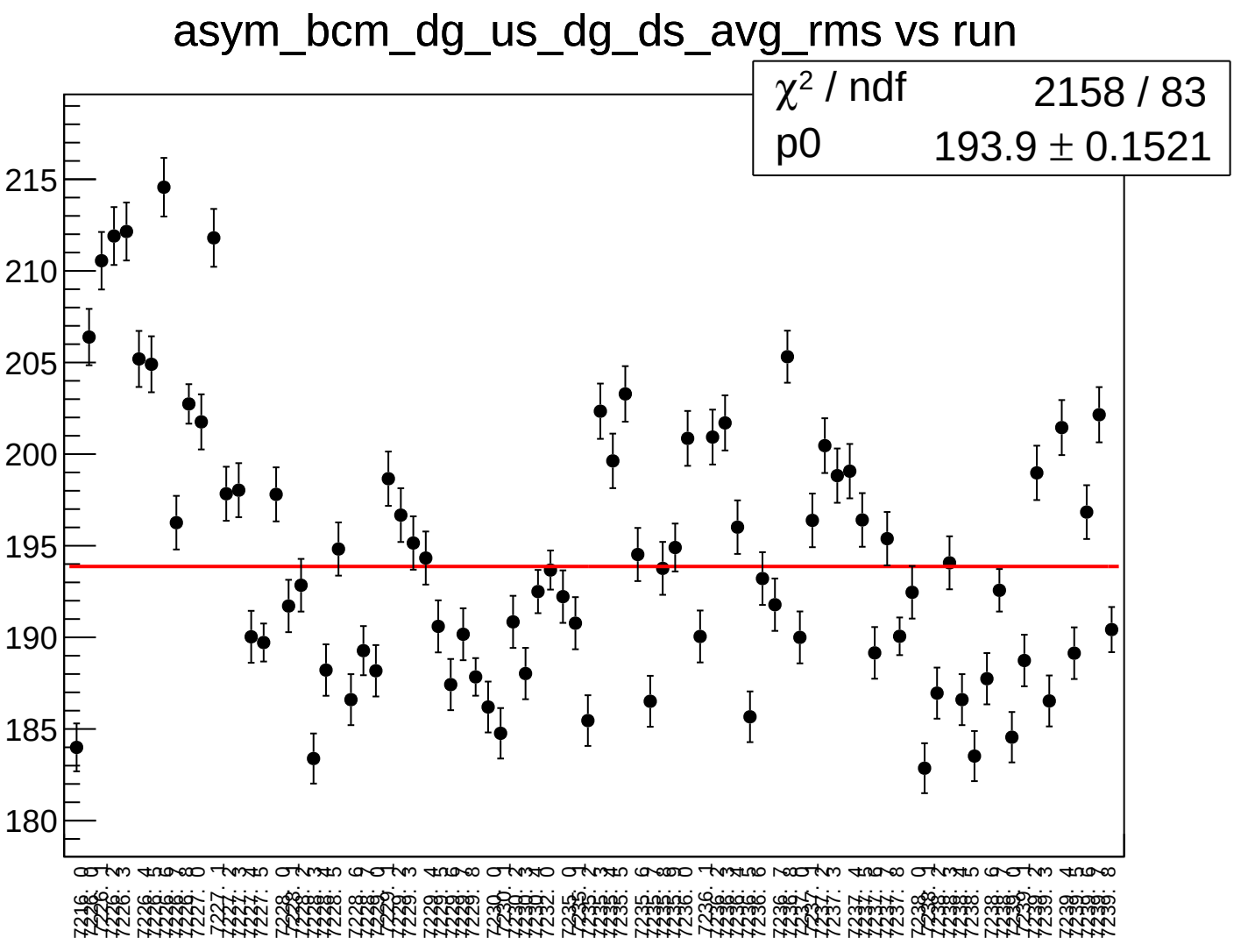

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 104.4 / 83
p0 5.432 ± 12.13
400
200
0
−200
−400
pull
Entries 84
Mean 116.5
Std Dev 0
3
2
1
0
−1
−2
−3

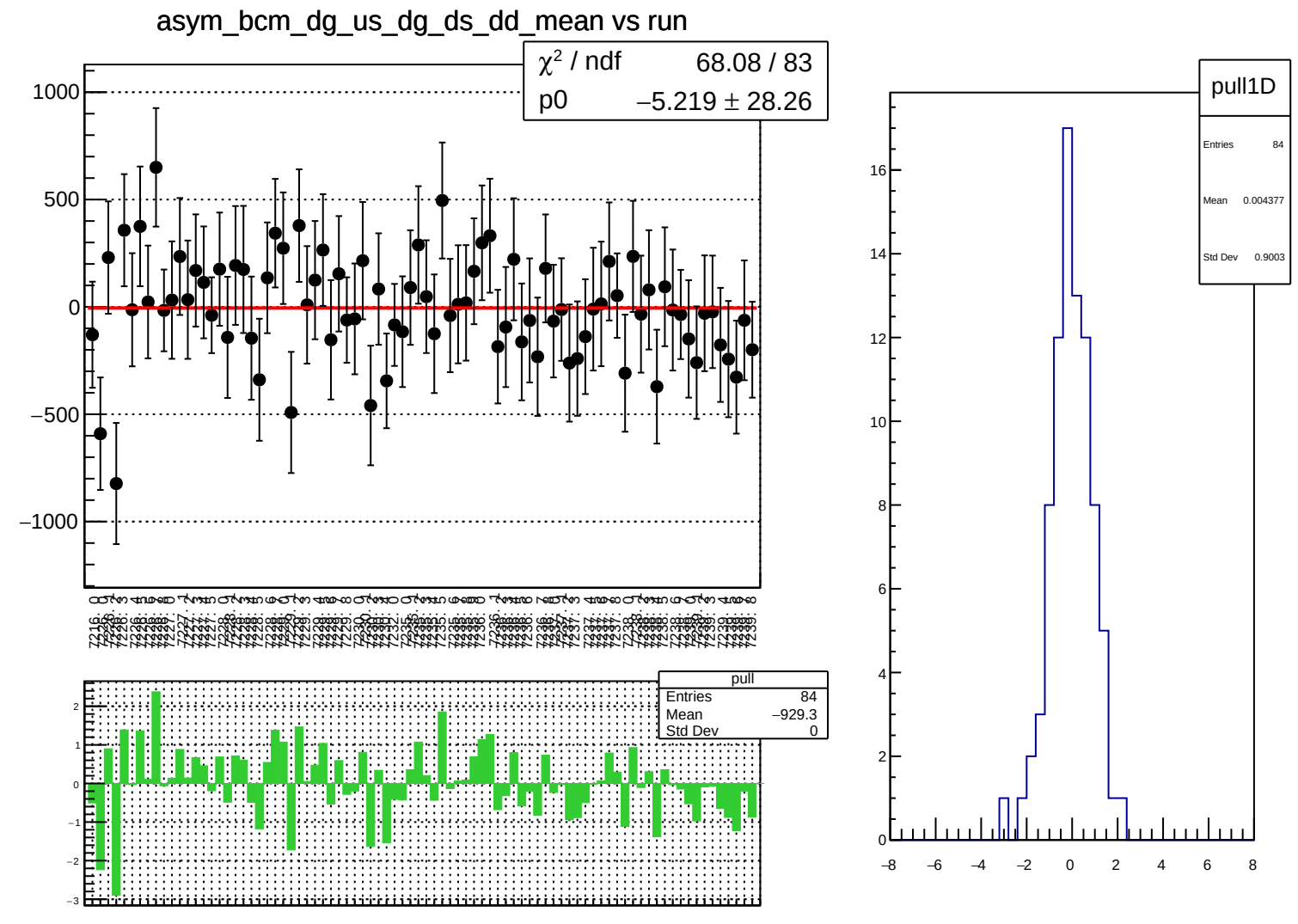

pull1D
Entries 84
Mean −0.02374
Std Dev 1.115
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

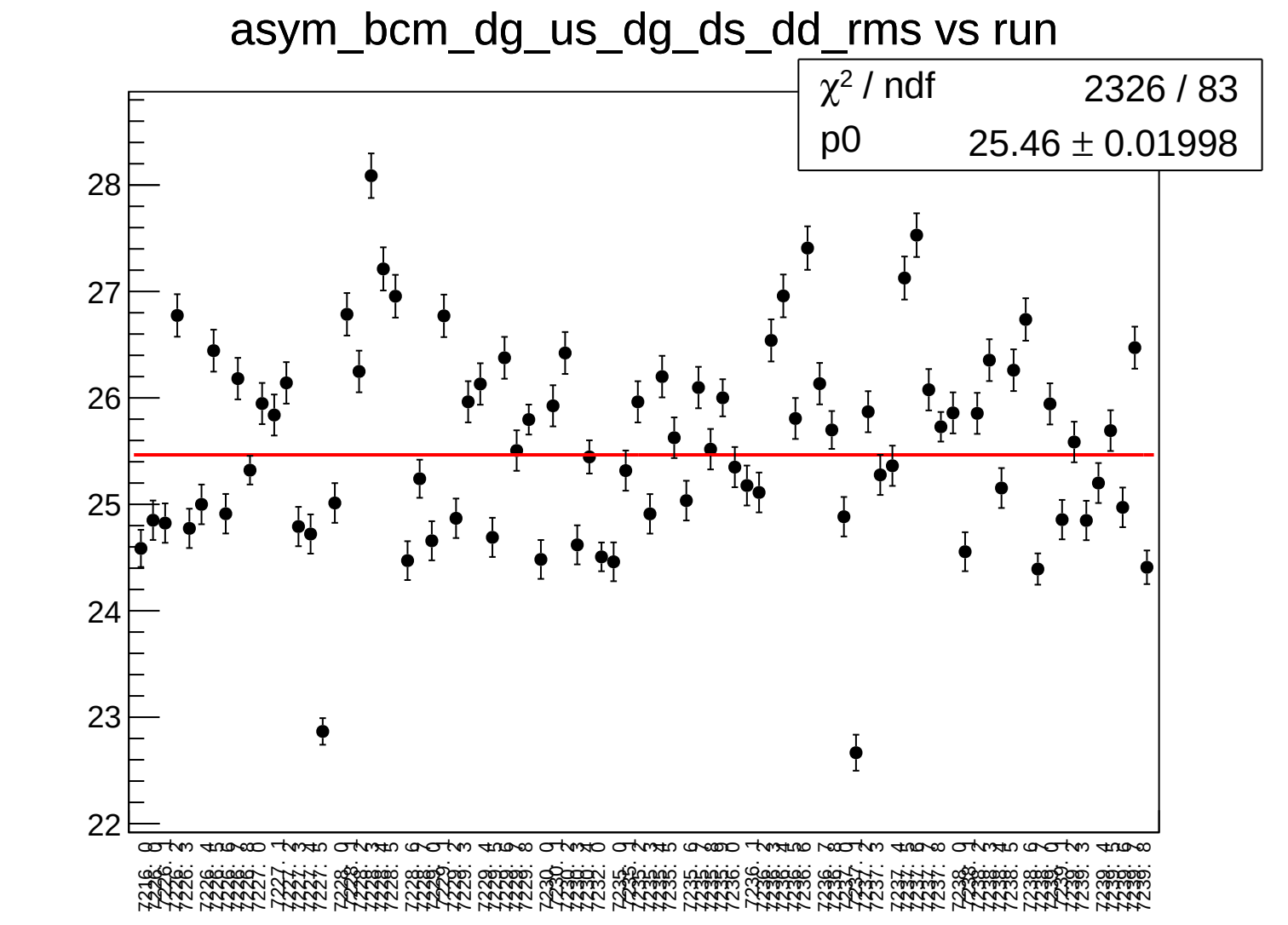

asym_bcm_an_us_an_ds3_dd_rms vs run
χ² / ndf 1.362e+04 / 83
p0 10.9 ± 0.00858
13
12.5
12
11.5
11
10.5
10
9.5
9

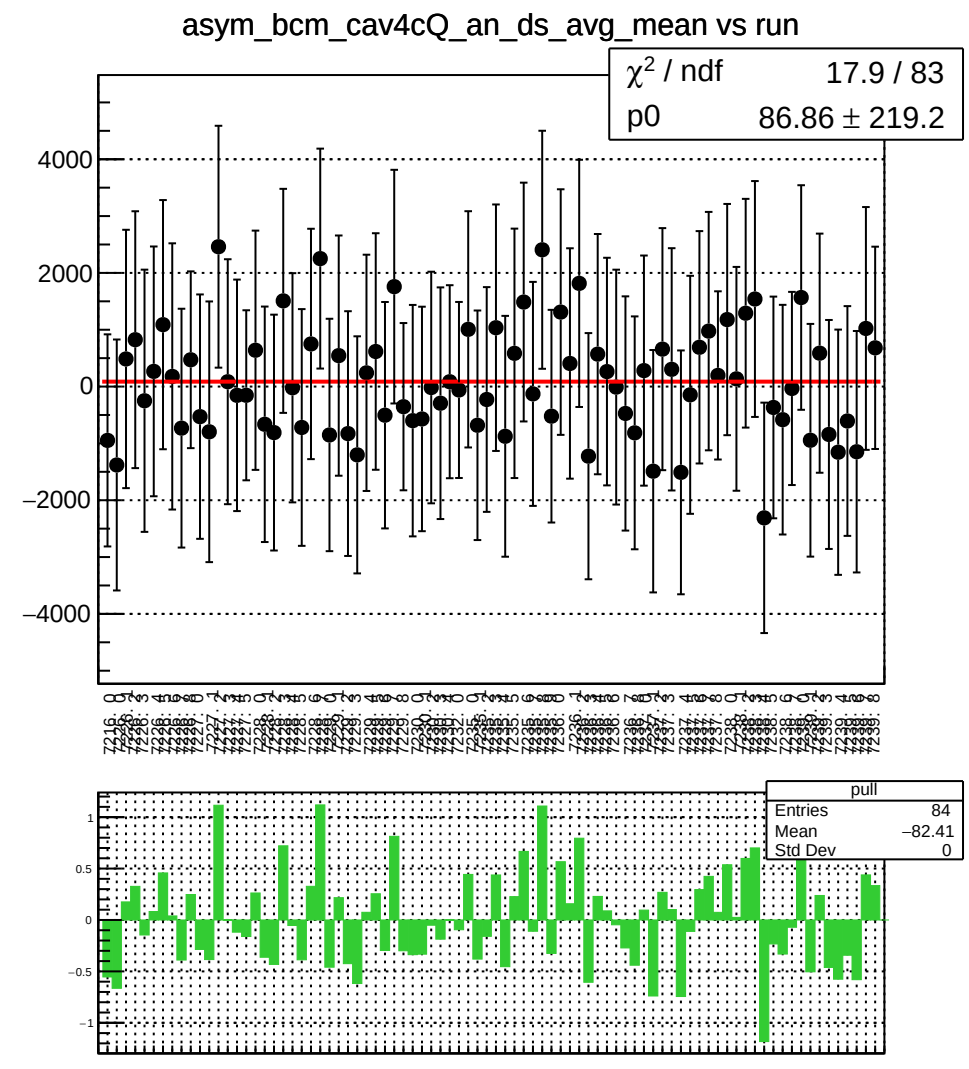

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 19.65 / 83
p0 81.97 ± 215.1
4000
2000
0
−2000
−4000
pull
Entries 84
Mean −112
Std Dev 0
1
0.5
0
−0.5
−1

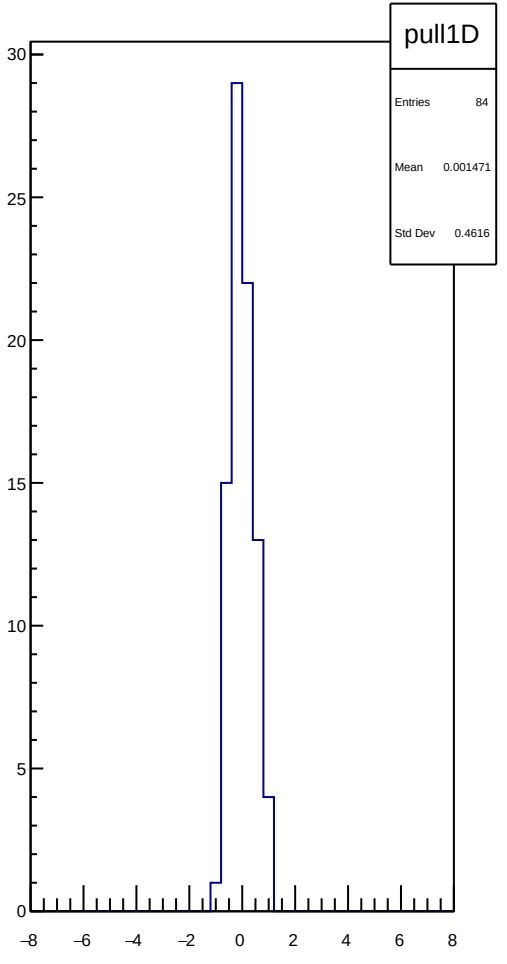

pull1D
Entries 84
Mean 0.001997
Std Dev 0.4837
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 2158 / 83
p0 193.9 ± 0.1521
215
210
205
200
195
190
185
180


asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 68.08 / 83
p0 −5.219 ± 28.26
1000
500
0
−500
−1000
pull
Entries 84
Mean −929.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean 0.004377
Std Dev 0.9003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 2326 / 83
p0 25.46 ± 0.01998
28
27
26
25
24
23
22


asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 17.9 / 83
p0 86.86 ± 219.2
4000
2000
0
−2000
−4000
pull
Entries 84
Mean −82.41
Std Dev 0
1
0.5
0
−0.5
−1


pull1D
Entries 84
Mean 0.001471
Std Dev 0.4616
30
25
20
15
10
5
0
−8
−6
−4
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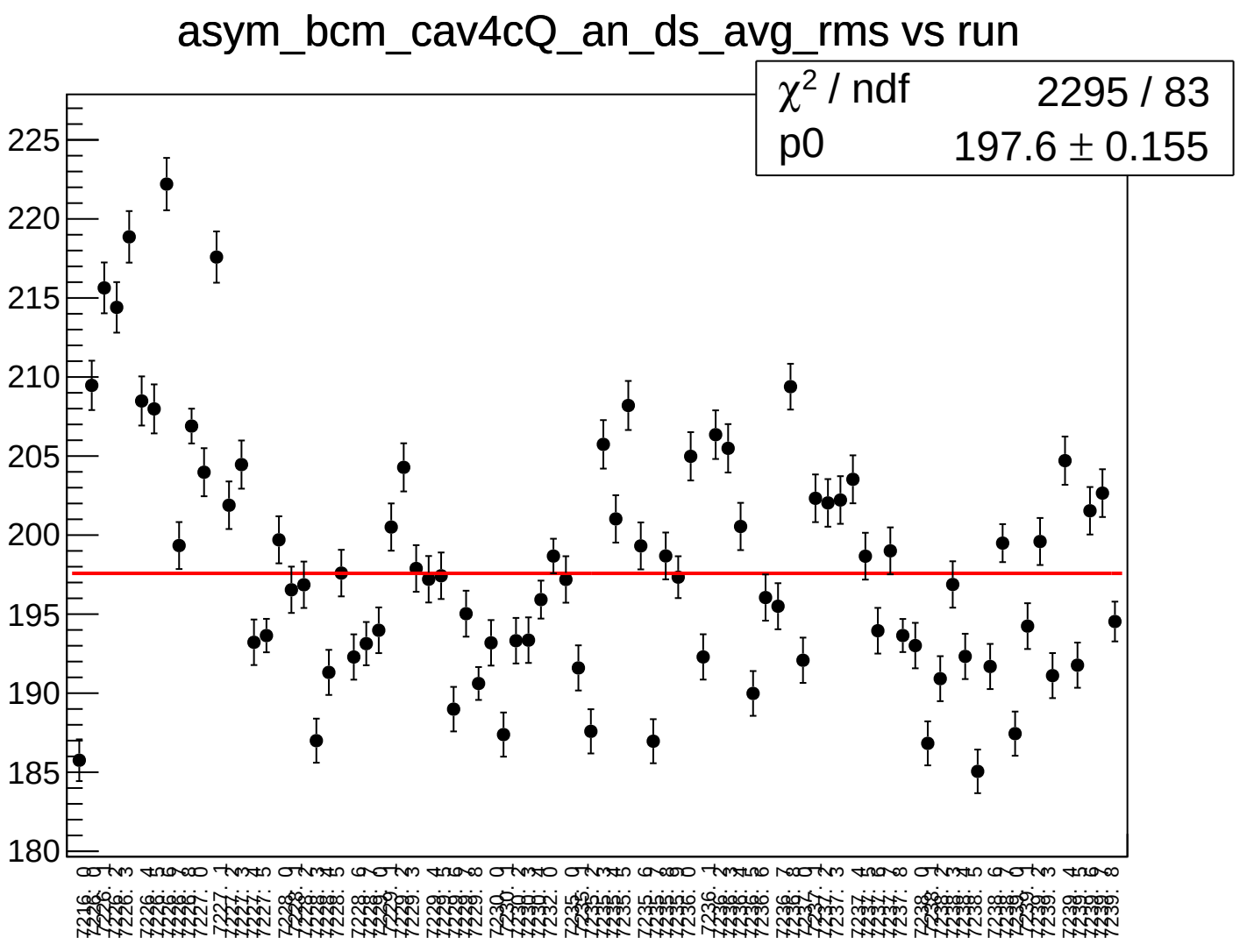
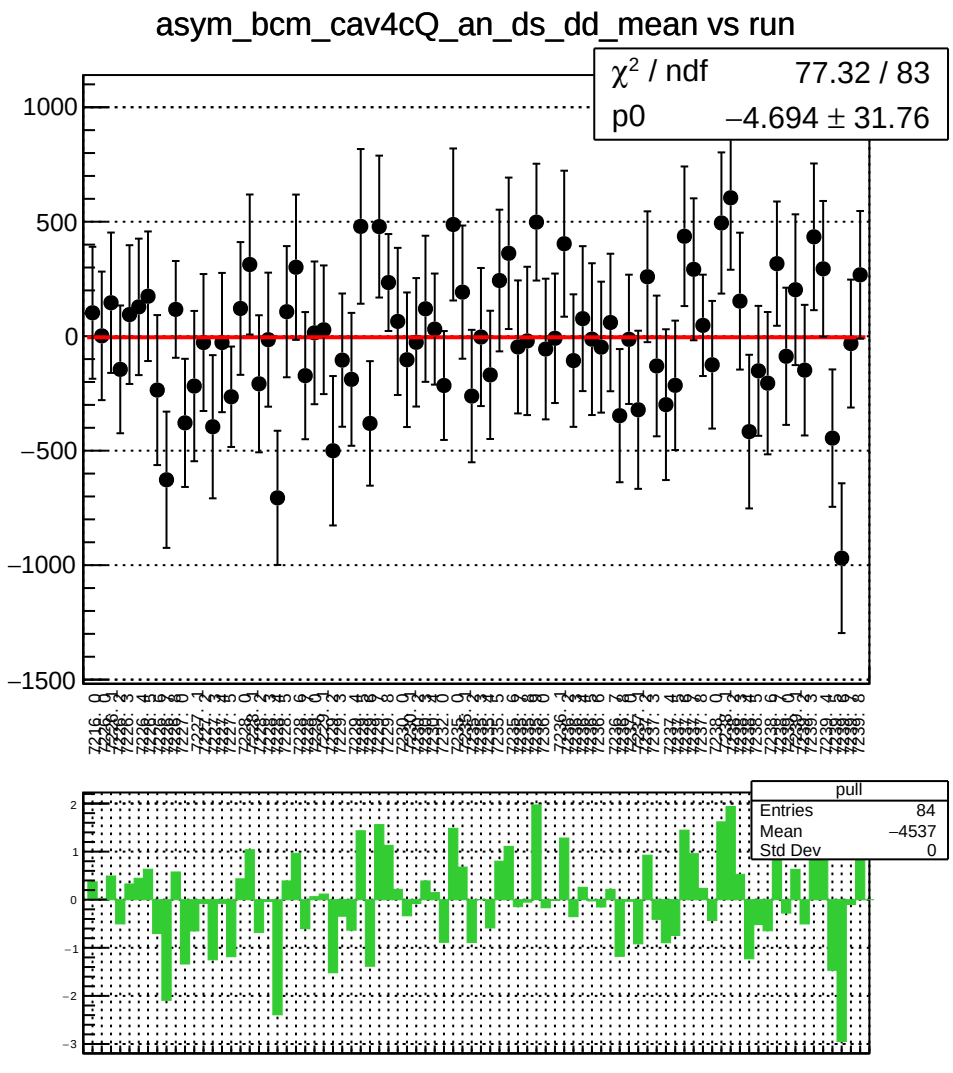
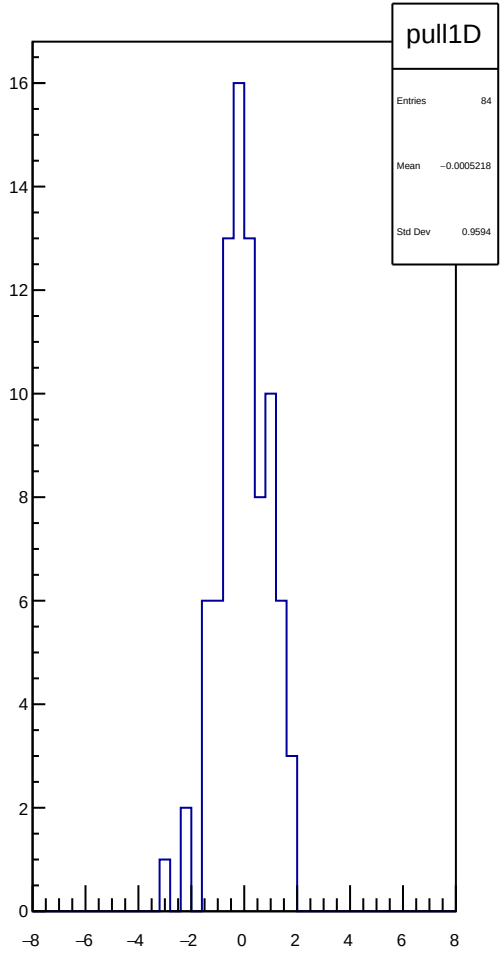
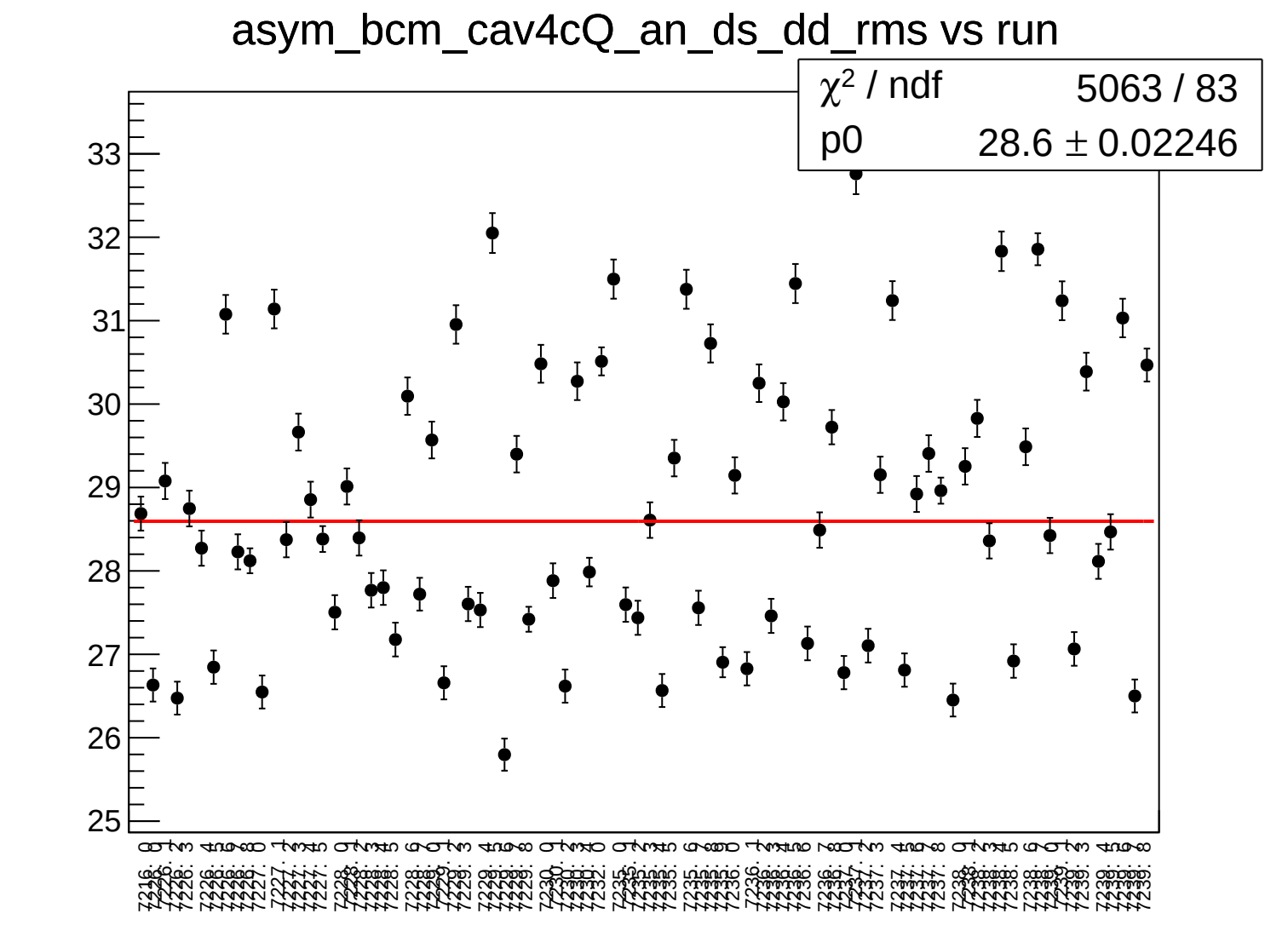
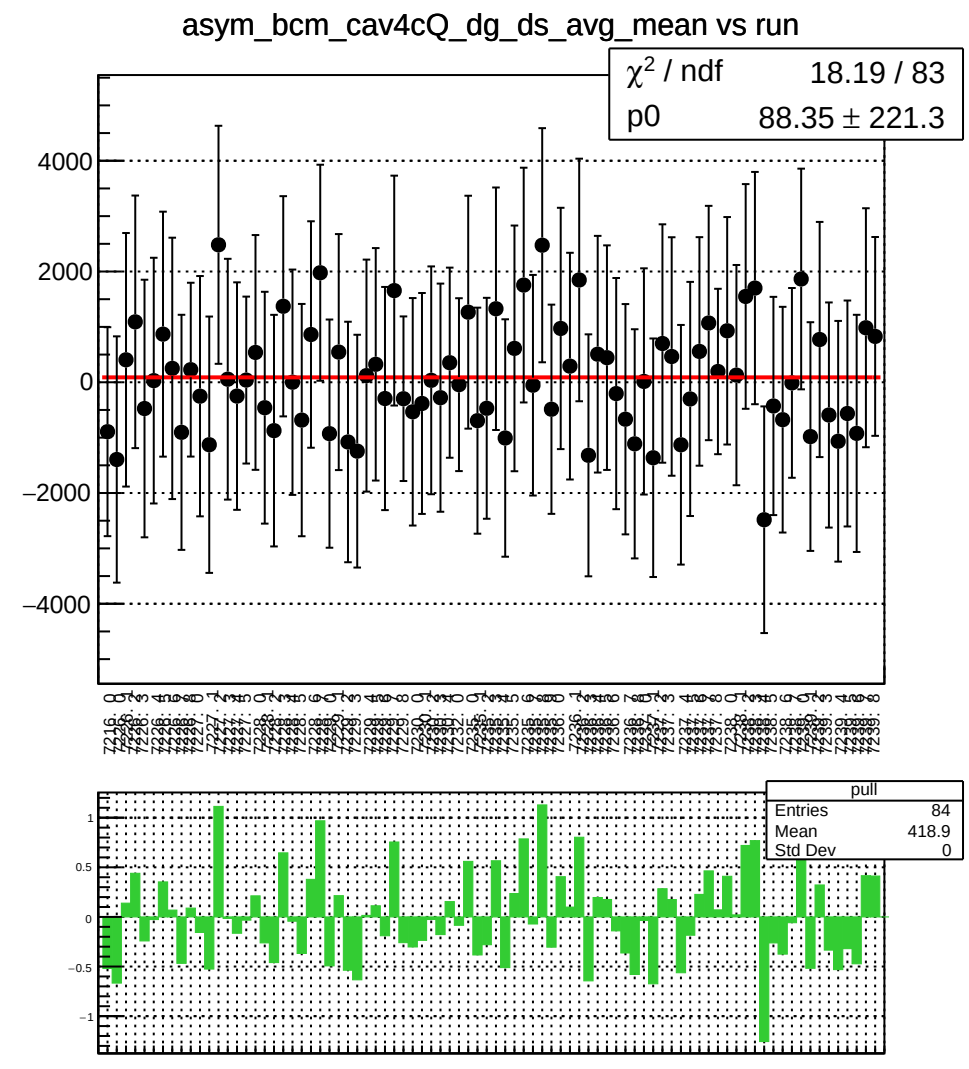
0
2
4
6
8

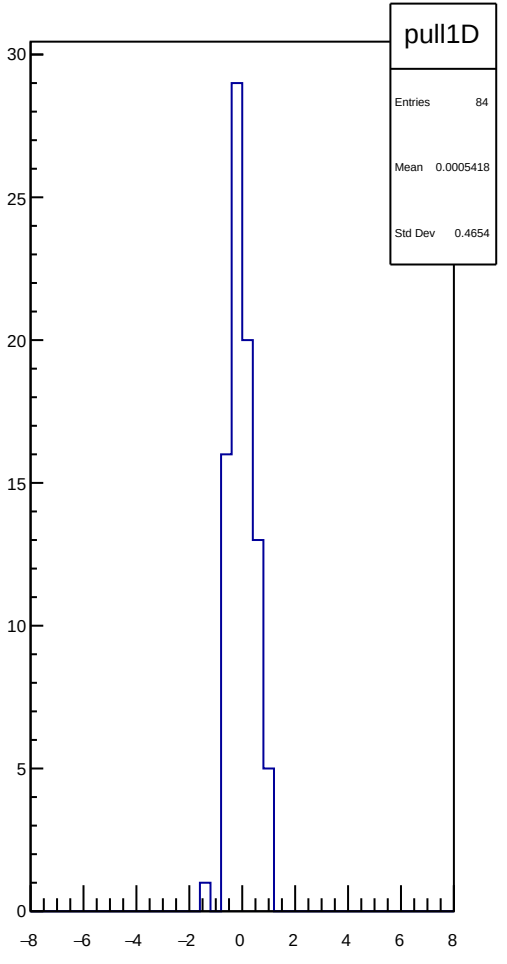

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 2295 / 83
p0 197.6 ± 0.155
225
220
215
210
205
200
195
190
185
180

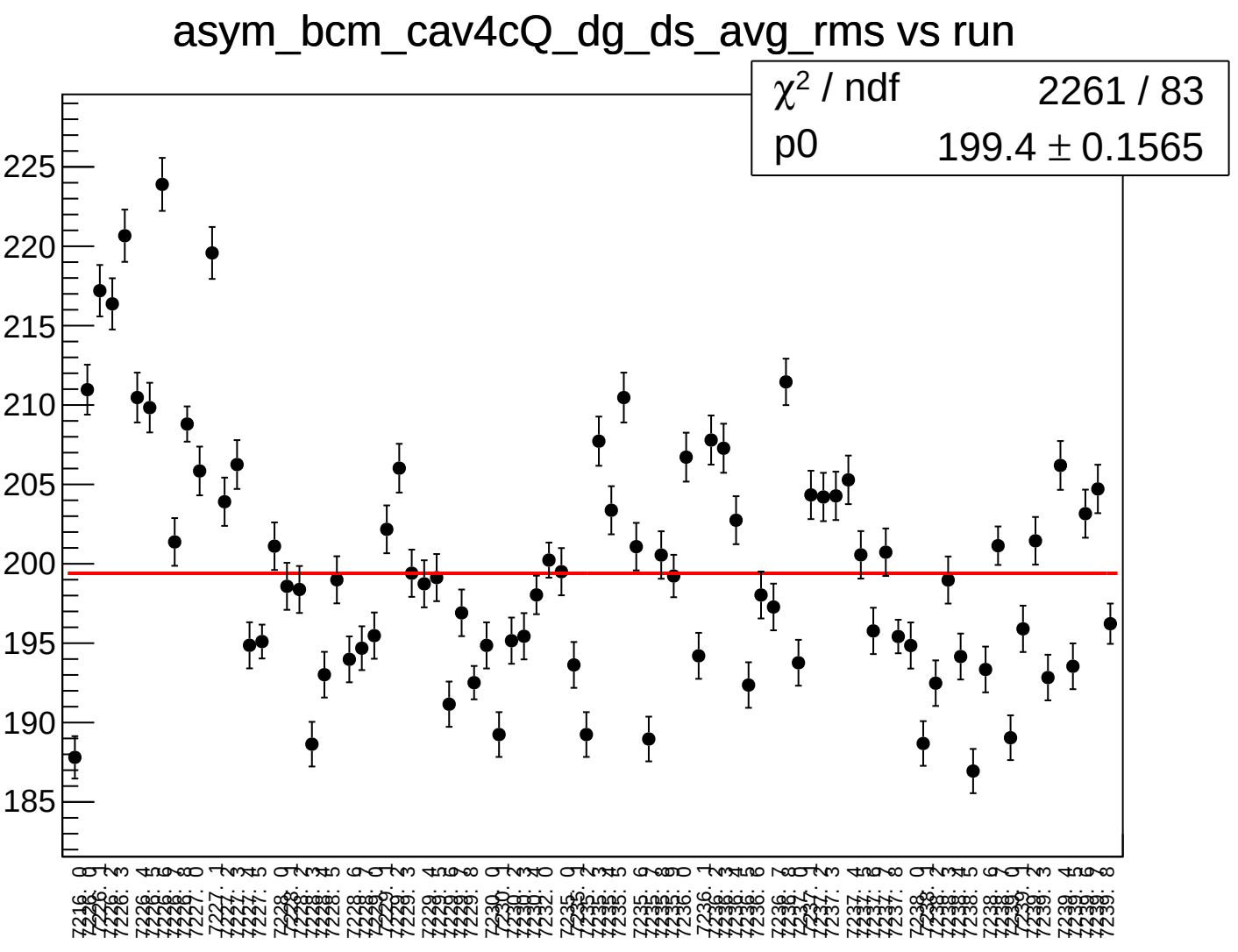

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 77.32 / 83
p0 −4.694 ± 31.76
1000
500
0
−500
−1000
−1500
pull
Entries 84
Mean −4537
Std Dev 0
2
1
0
−1
−2
−3

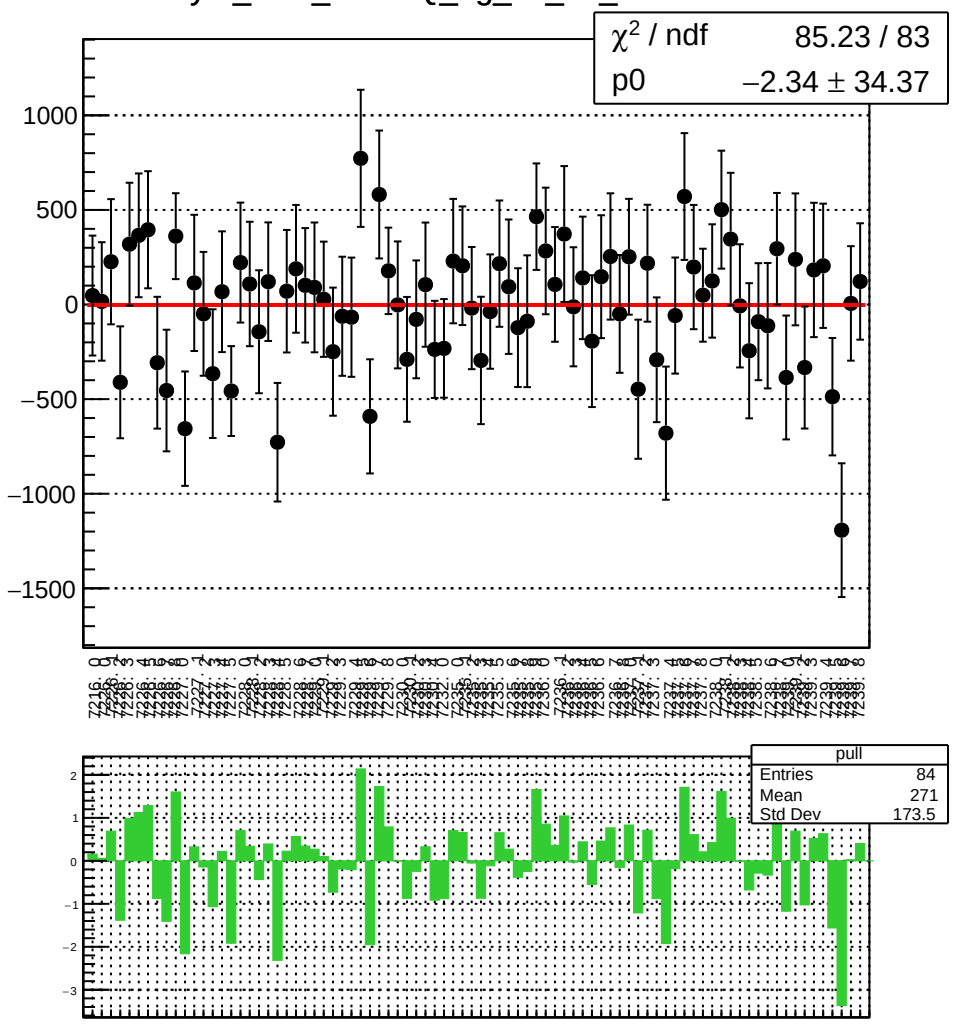

pull1D
Entries 84
Mean −0.0005218
Std Dev 0.9594
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

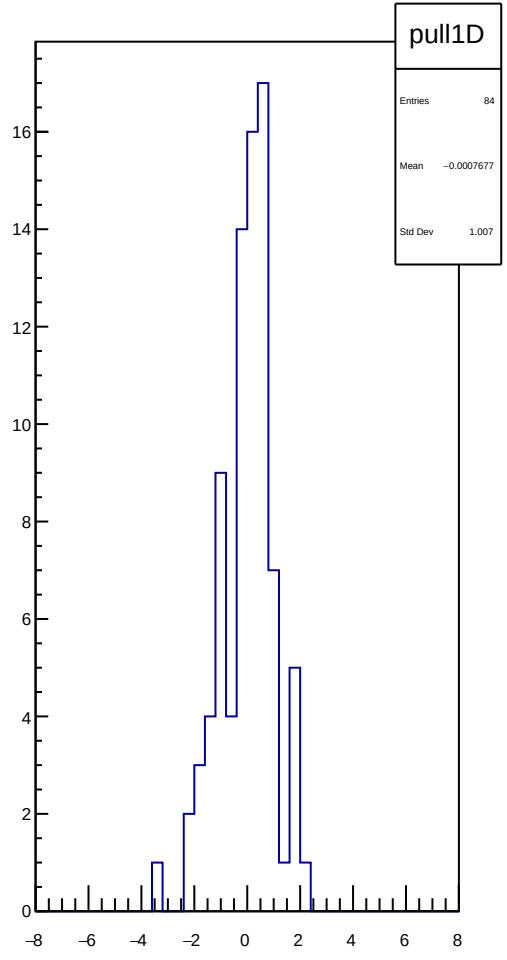

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 5063 / 83
p0 28.6 ± 0.02246
33
32
31
30
29
28
27
26
25

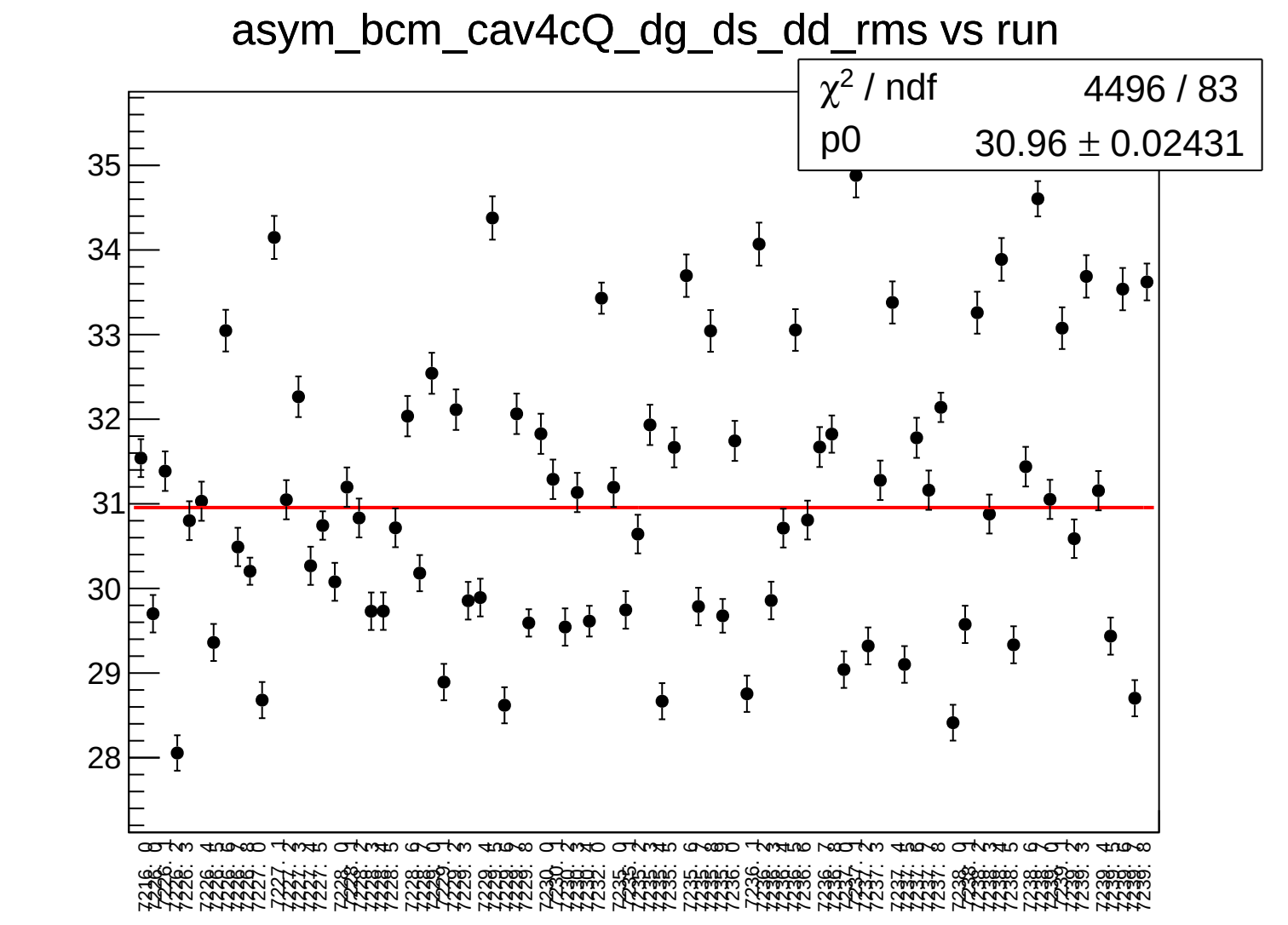

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 18.19 / 83
p0 88.35 ± 221.3
4000
2000
0
−2000
−4000
pull
Entries 84
Mean 418.9
Std Dev 0
1
0.5
0
−0.5
−1

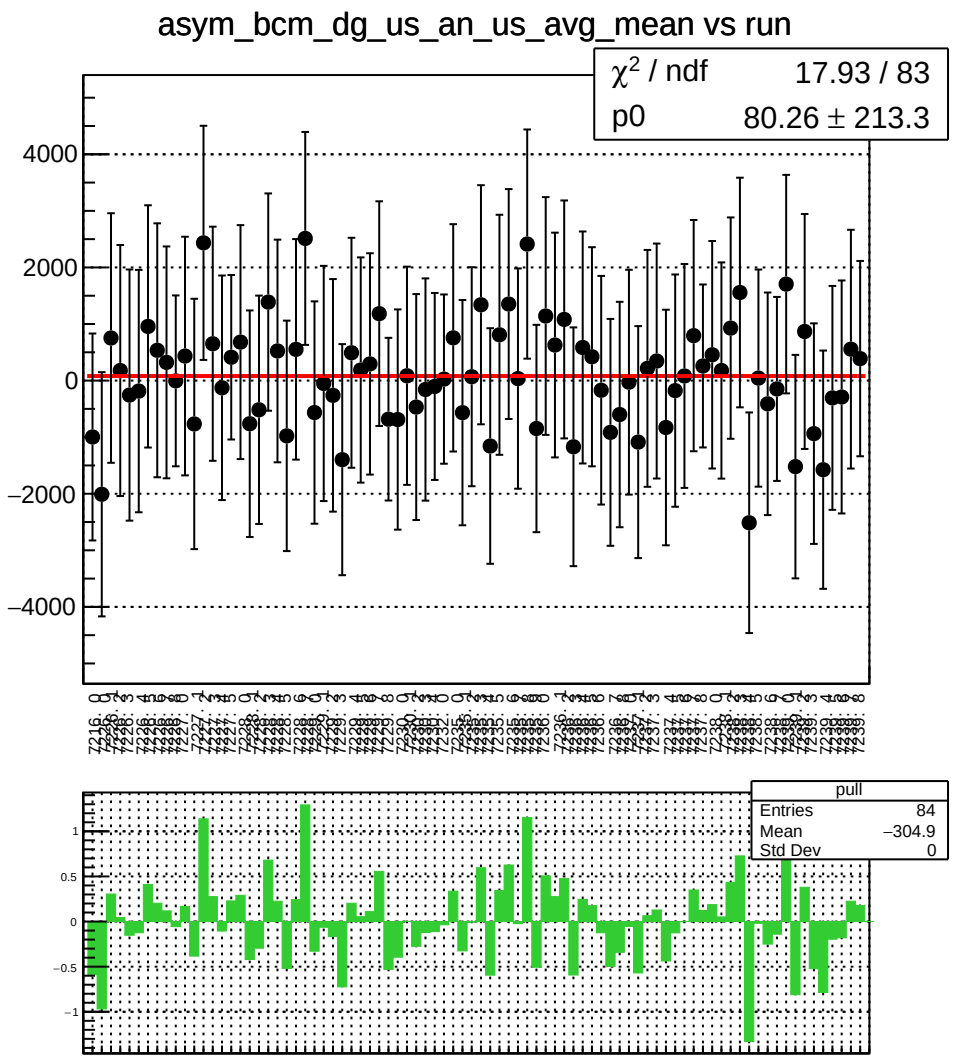

pull1D
Entries 84
Mean 0.0005418
Std Dev 0.4654
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

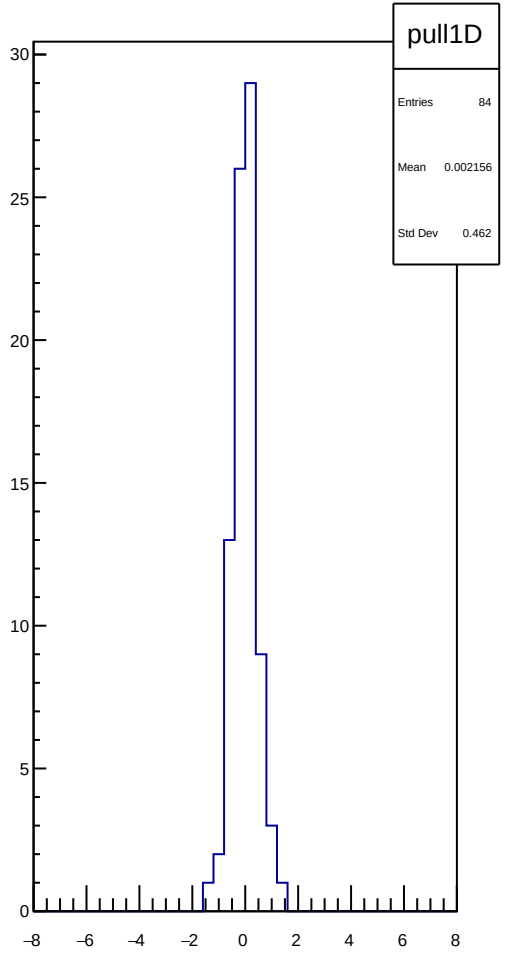

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 2261 / 83
p0 199.4 ± 0.1565
225
220
215
210
205
200
195
190
185

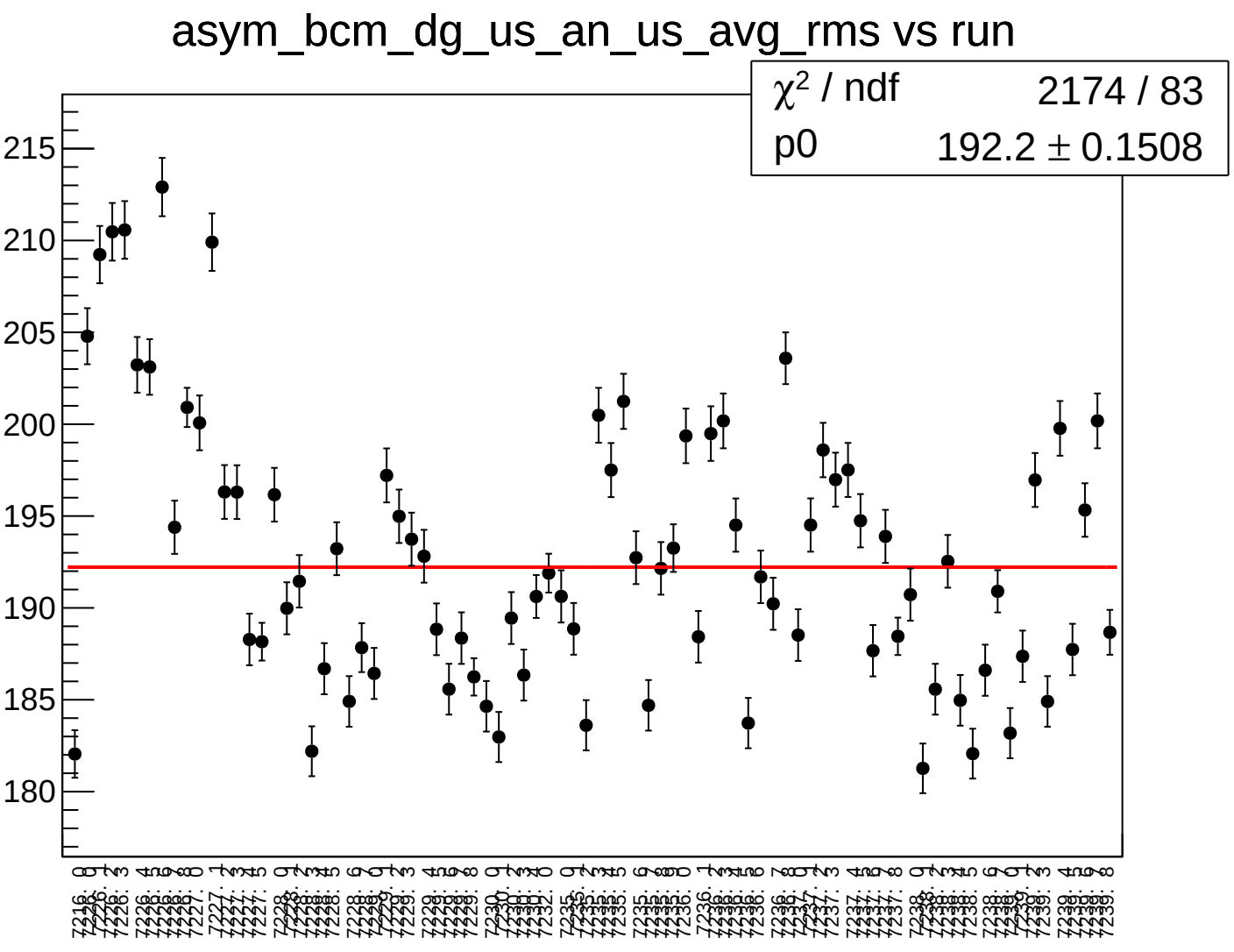

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 85.23 / 83
p0 −2.34 ± 34.37
1000
500
0
−500
−1000
−1500
pull
Entries 84
Mean 271
Std Dev 173.5
2
1
0
−1
−2
−3

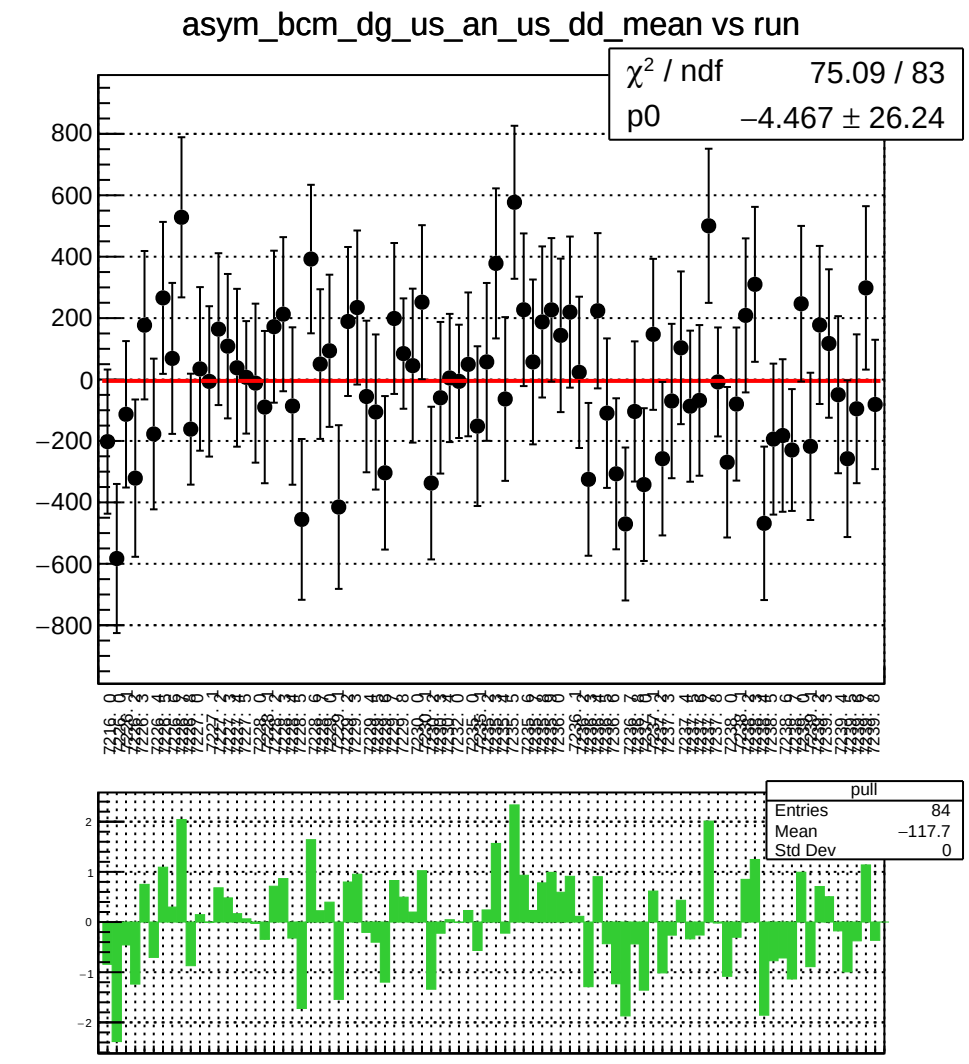

pull1D
Entries 84
Mean −0.0007677
Std Dev 1.007
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

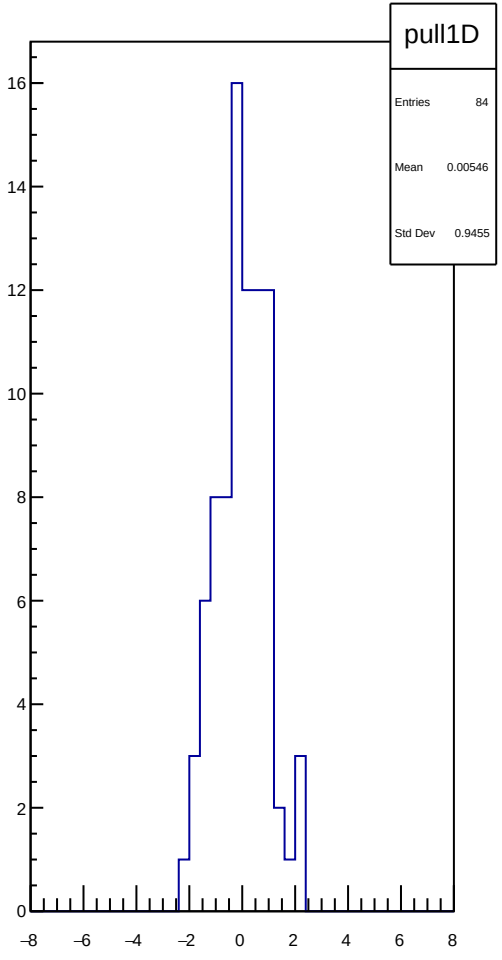

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 4496 / 83
p0 30.96 ± 0.02431
35
34
33
32
31
30
29
28

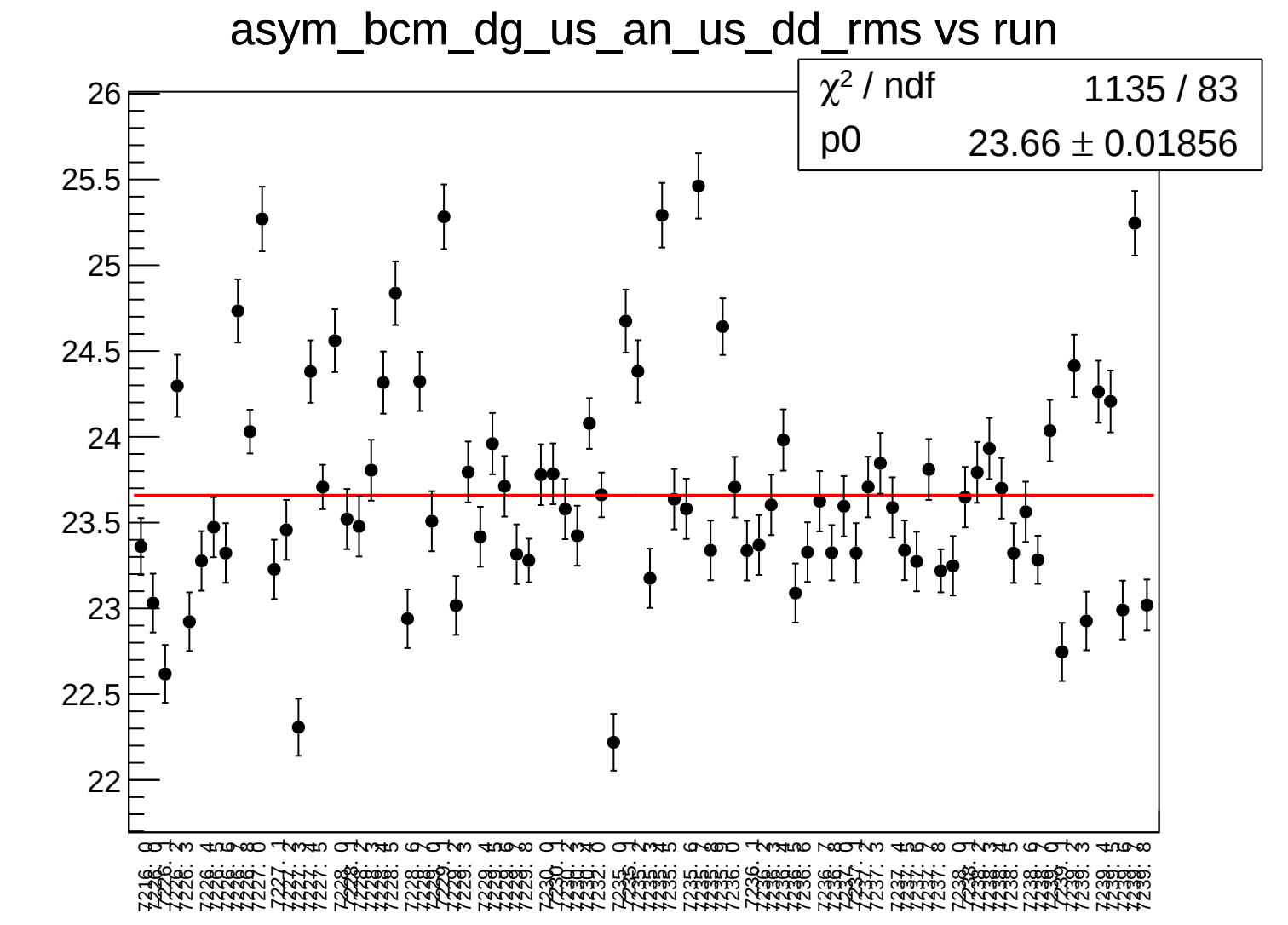

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 17.93 / 83
p0 80.26 ± 213.3
4000
2000
0
−2000
−4000
pull
Entries 84
Mean −304.9
Std Dev 0
1
0.5
0
−0.5
−1

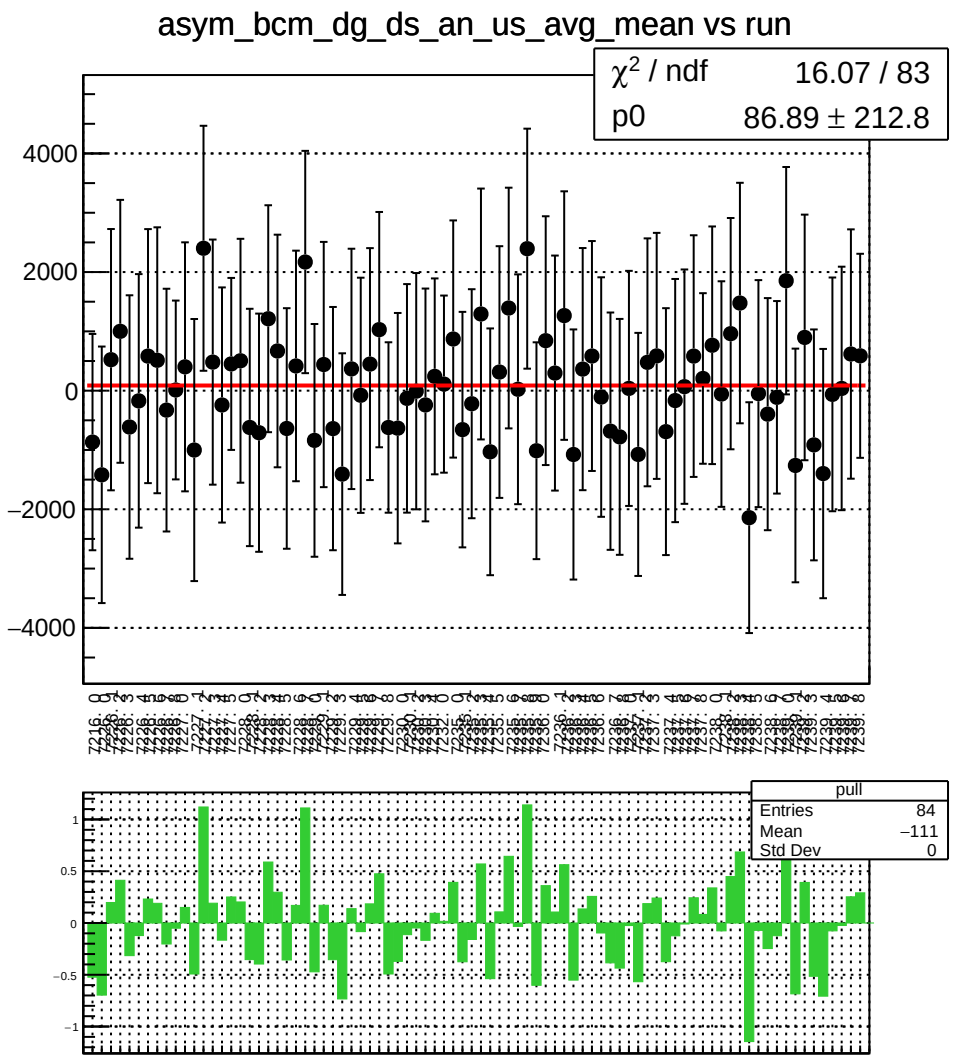

pull1D
Entries 84
Mean 0.002156
Std Dev 0.462
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

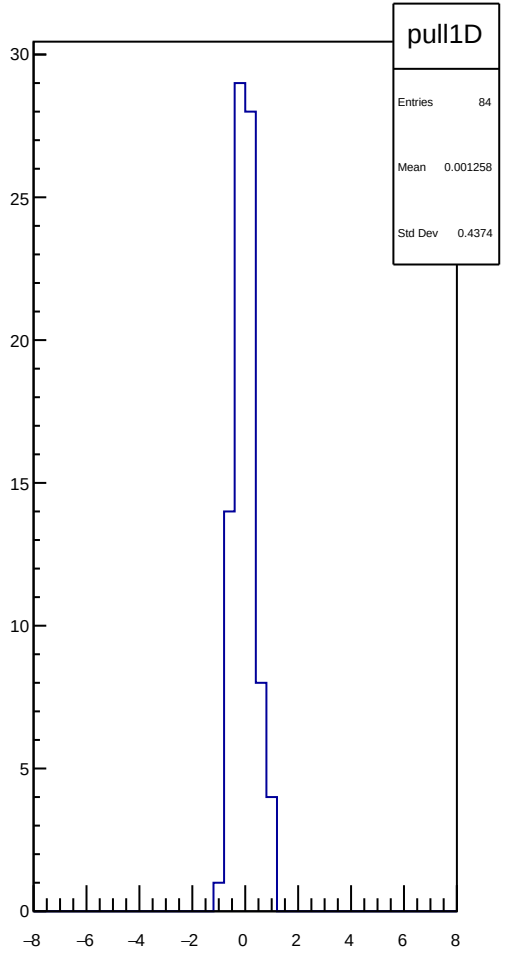

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 2174 / 83
p0 192.2 ± 0.1508
215
210
205
200
195
190
185
180

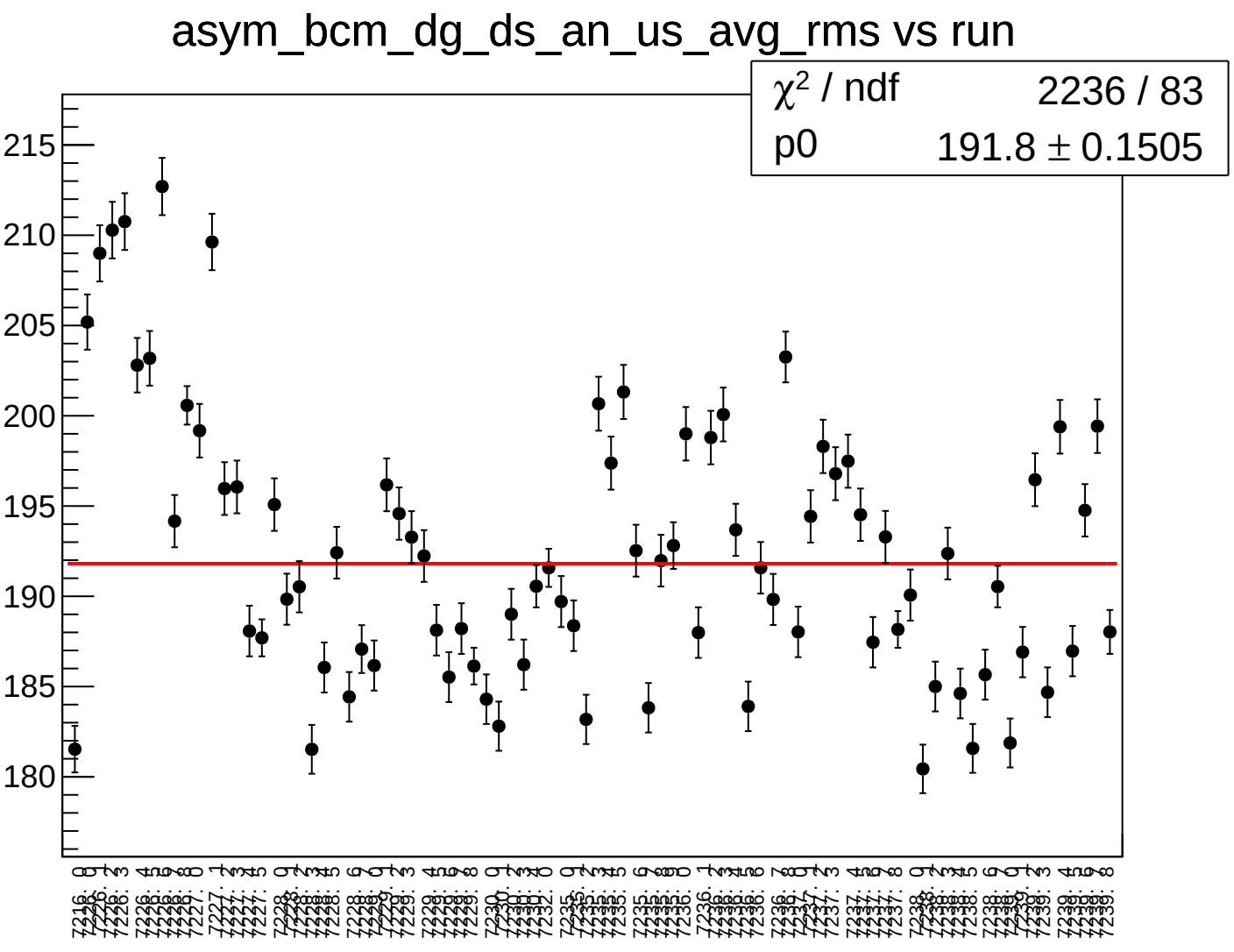

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 75.09 / 83
p0 −4.467 ± 26.24
pull
Entries 84
Mean −117.7
Std Dev 0

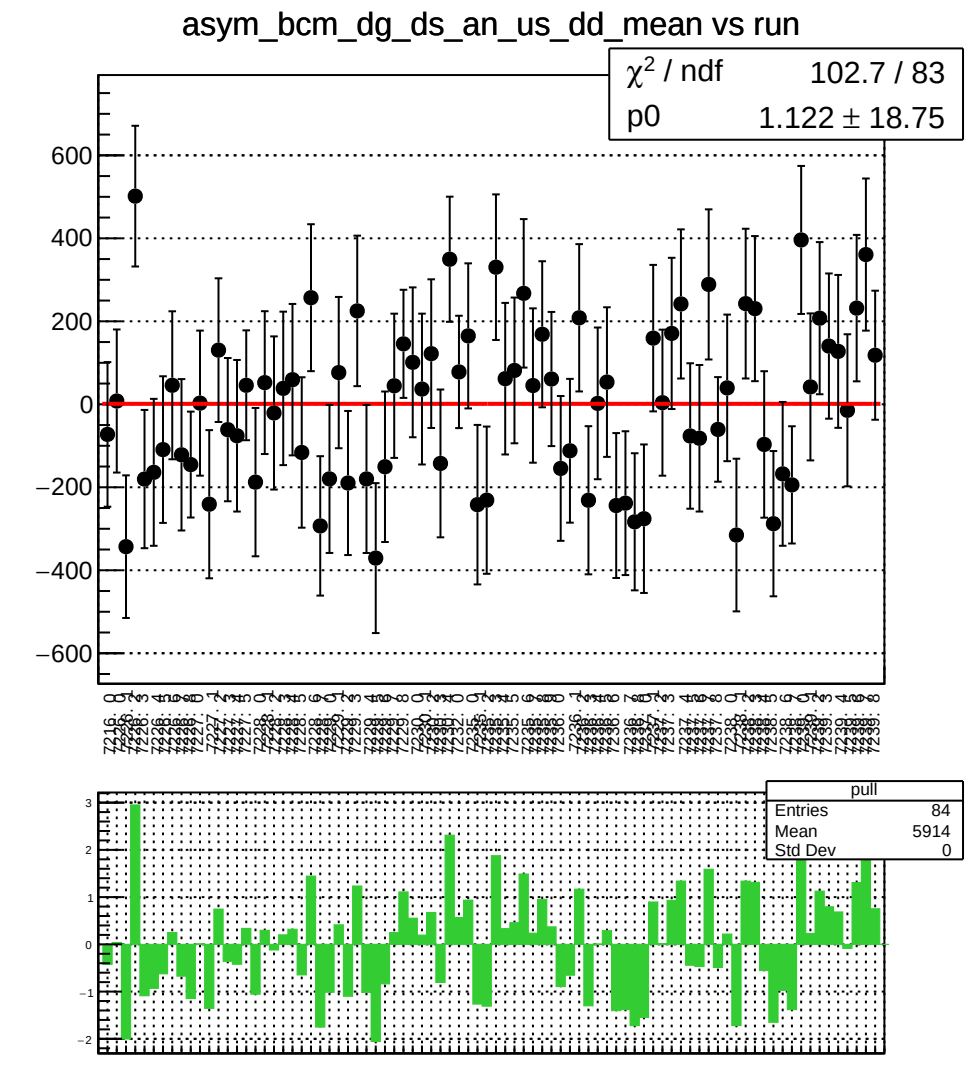

pull1D
Entries 84
Mean 0.00546
Std Dev 0.9455

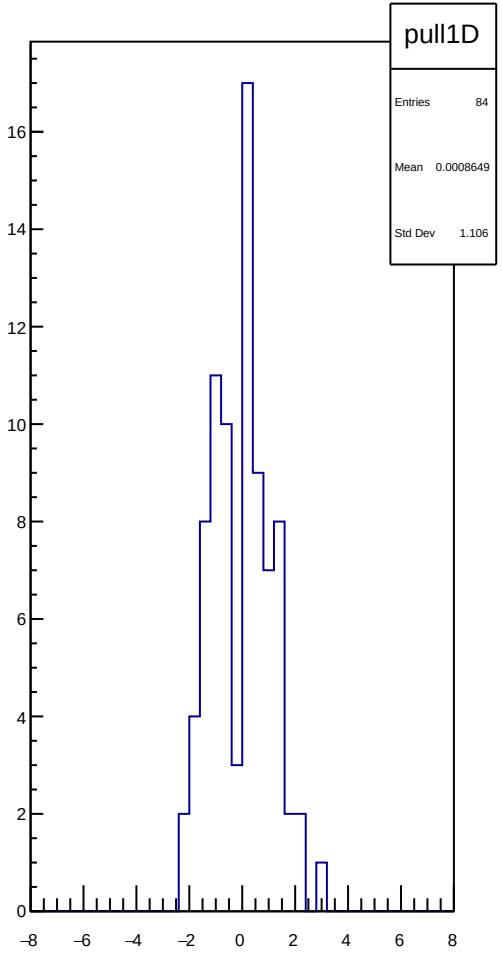

asym_bcm_dg_us_an_us_dd_rms vs run
χ² / ndf 1135 / 83
p0 23.66 ± 0.01856
26
25.5
25
24.5
24
23.5
23
22.5
22

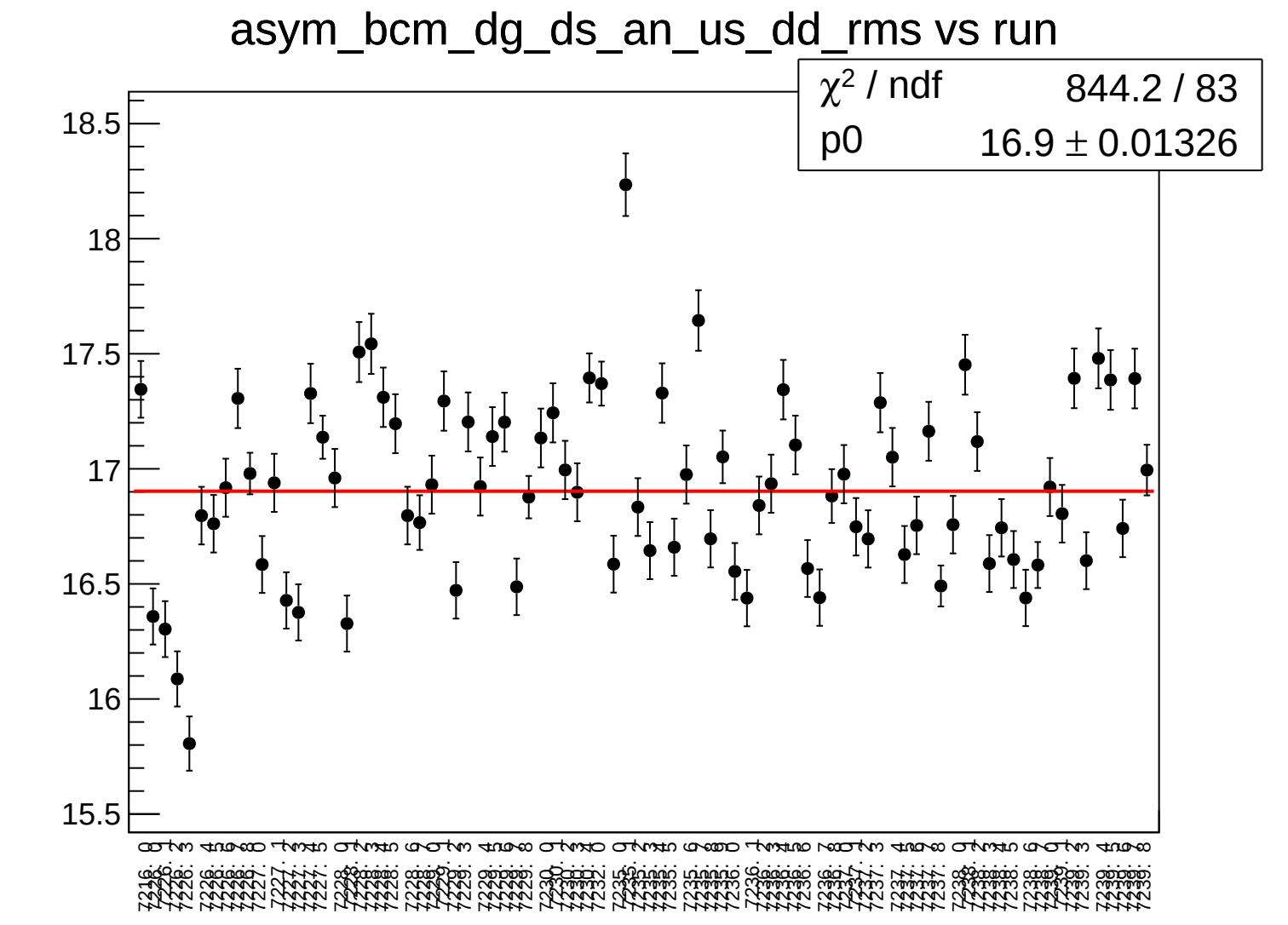

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 16.07 / 83
p0 86.89 ± 212.8
4000
2000
0
−2000
−4000
pull
Entries 84
Mean −111
Std Dev 0
1
0.5
0
−0.5
−1

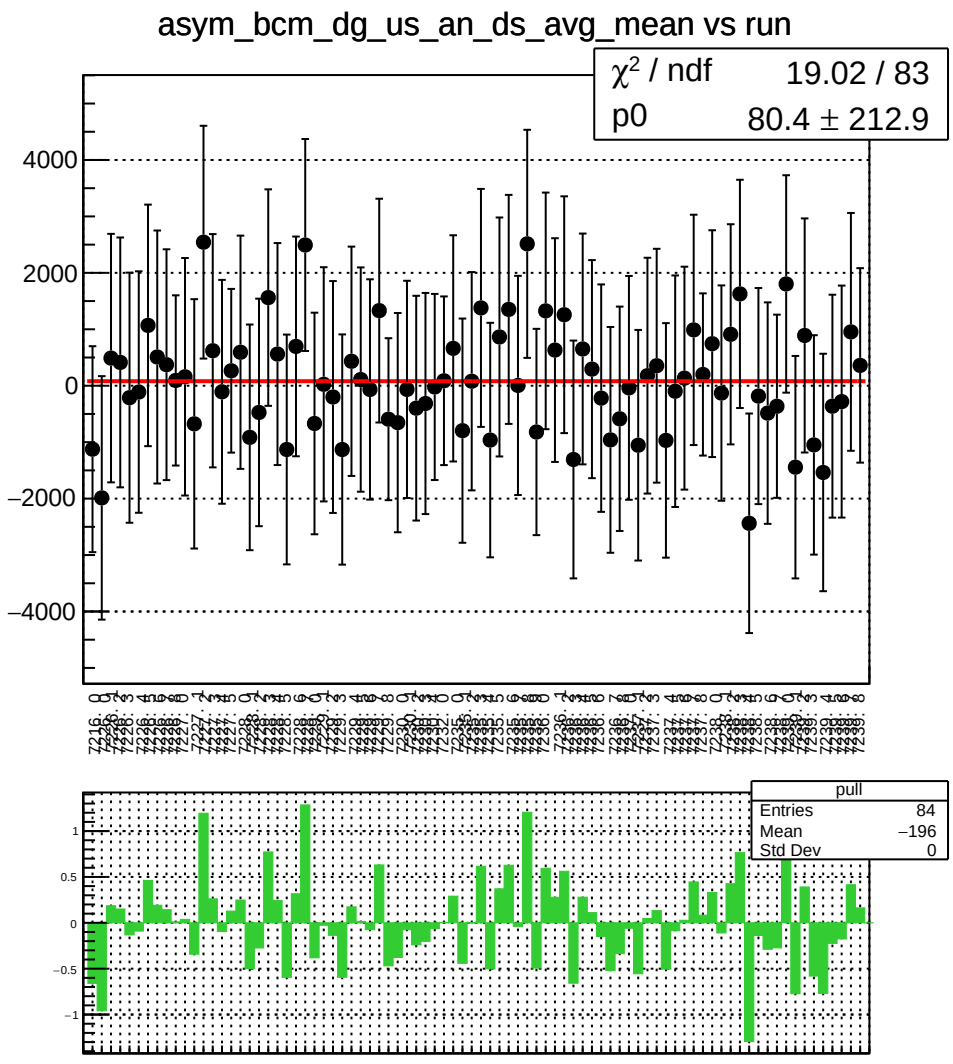

pull1D
Entries 84
Mean 0.001258
Std Dev 0.4374
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

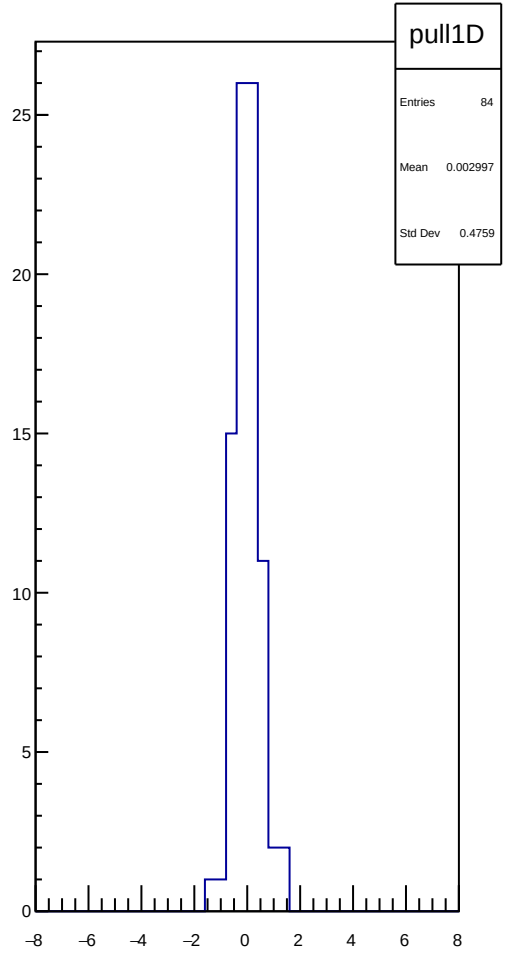

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 2236 / 83
p0 191.8 ± 0.1505
215
210
205
200
195
190
185
180

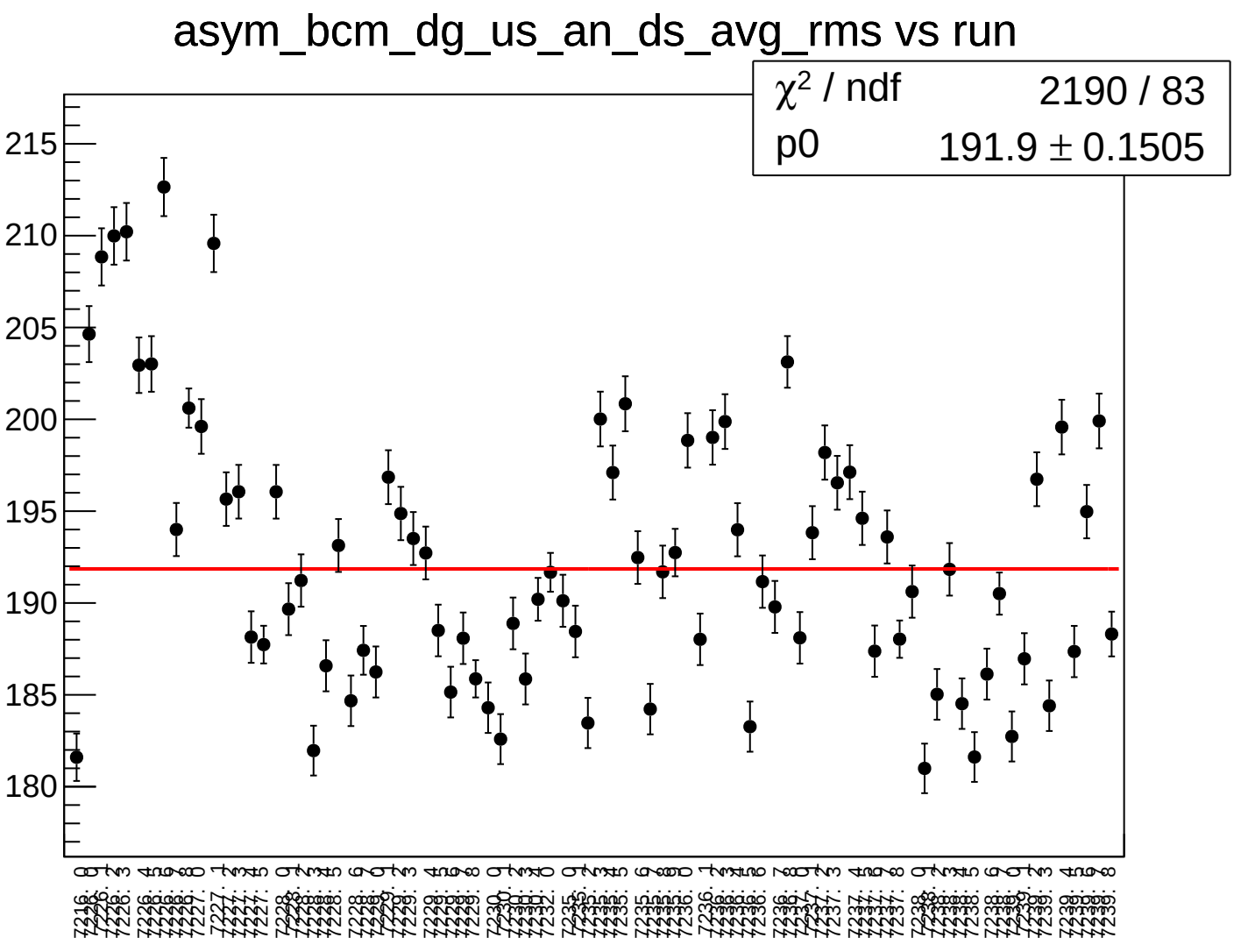

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 102.7 / 83
p0 1.122 ± 18.75
pull
Entries 84
Mean 5914
Std Dev 0

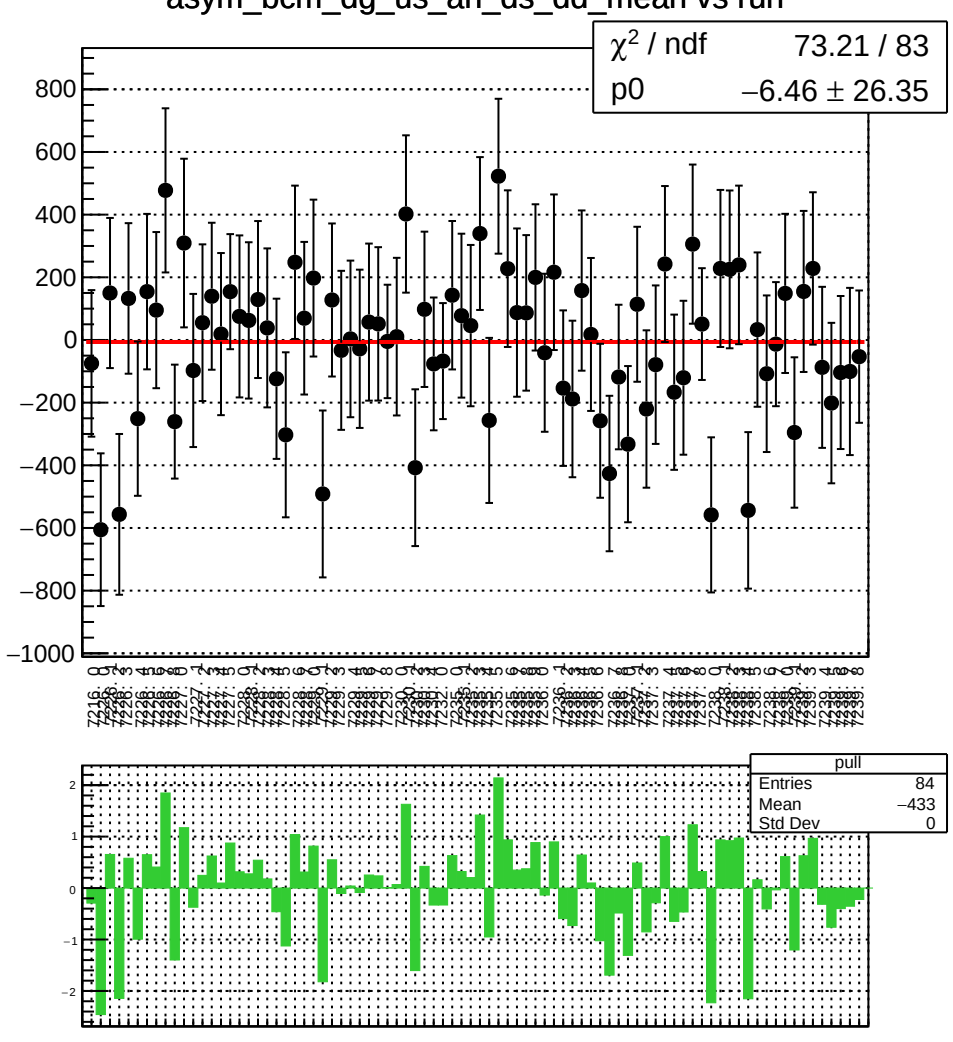

pull1D
Entries 84
Mean 0.0008649
Std Dev 1.106

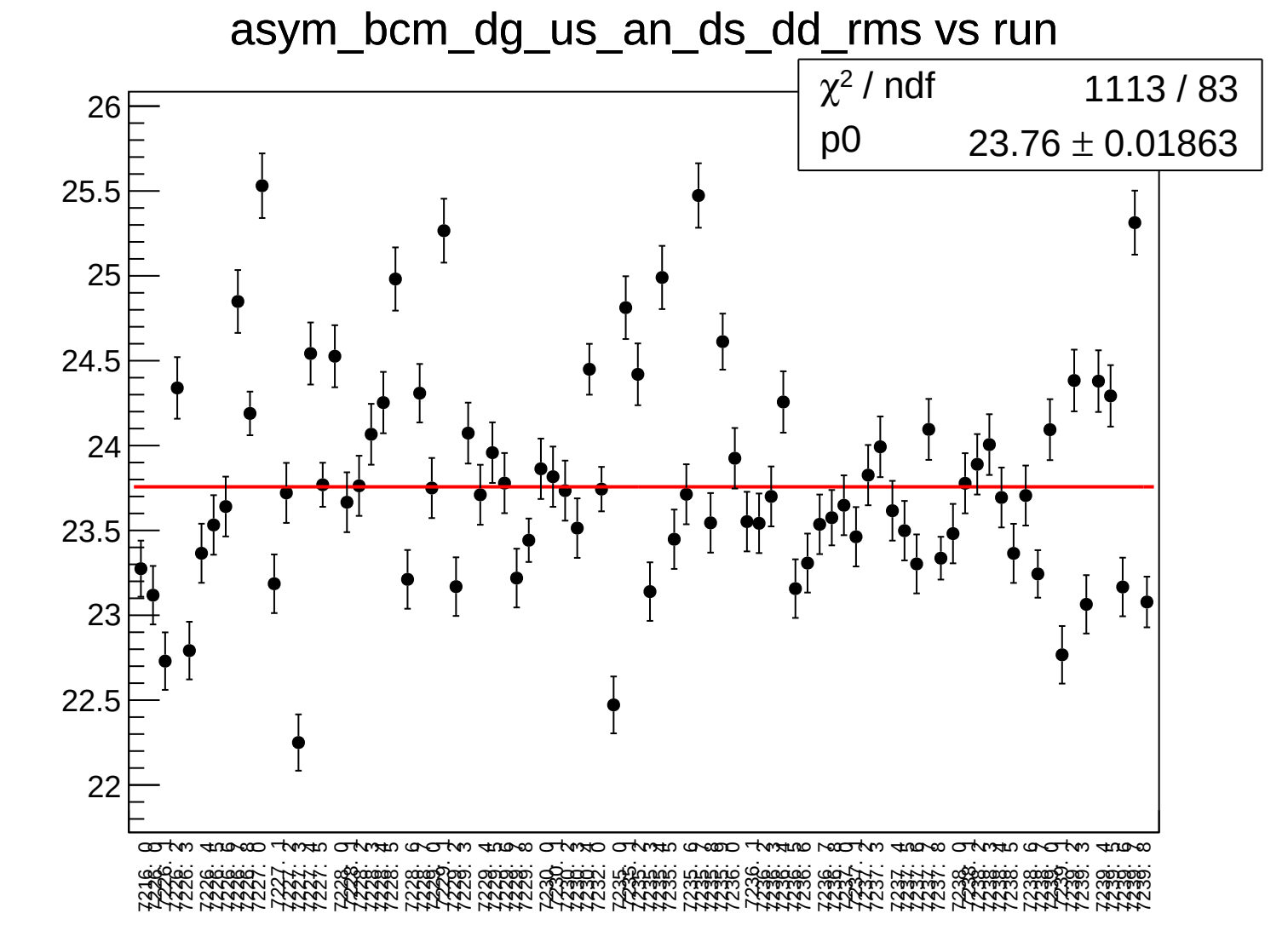

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 844.2 / 83
p0 16.9 ± 0.01326
18.5
18
17.5
17
16.5
16
15.5

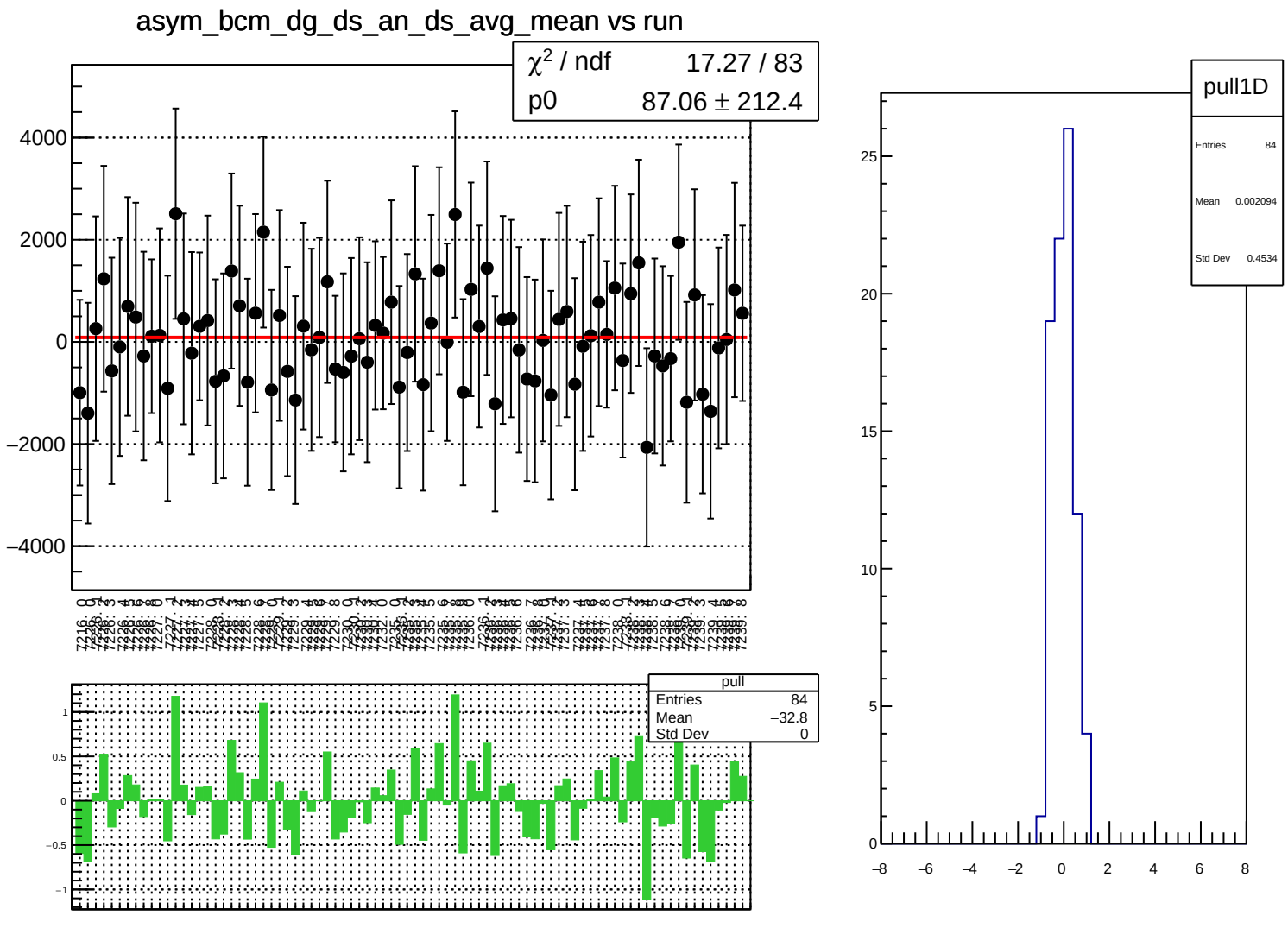

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 19.02 / 83
p0 80.4 ± 212.9
4000
2000
0
−2000
−4000
pull
Entries 84
Mean −196
Std Dev 0
1
0.5
0
−0.5
−1

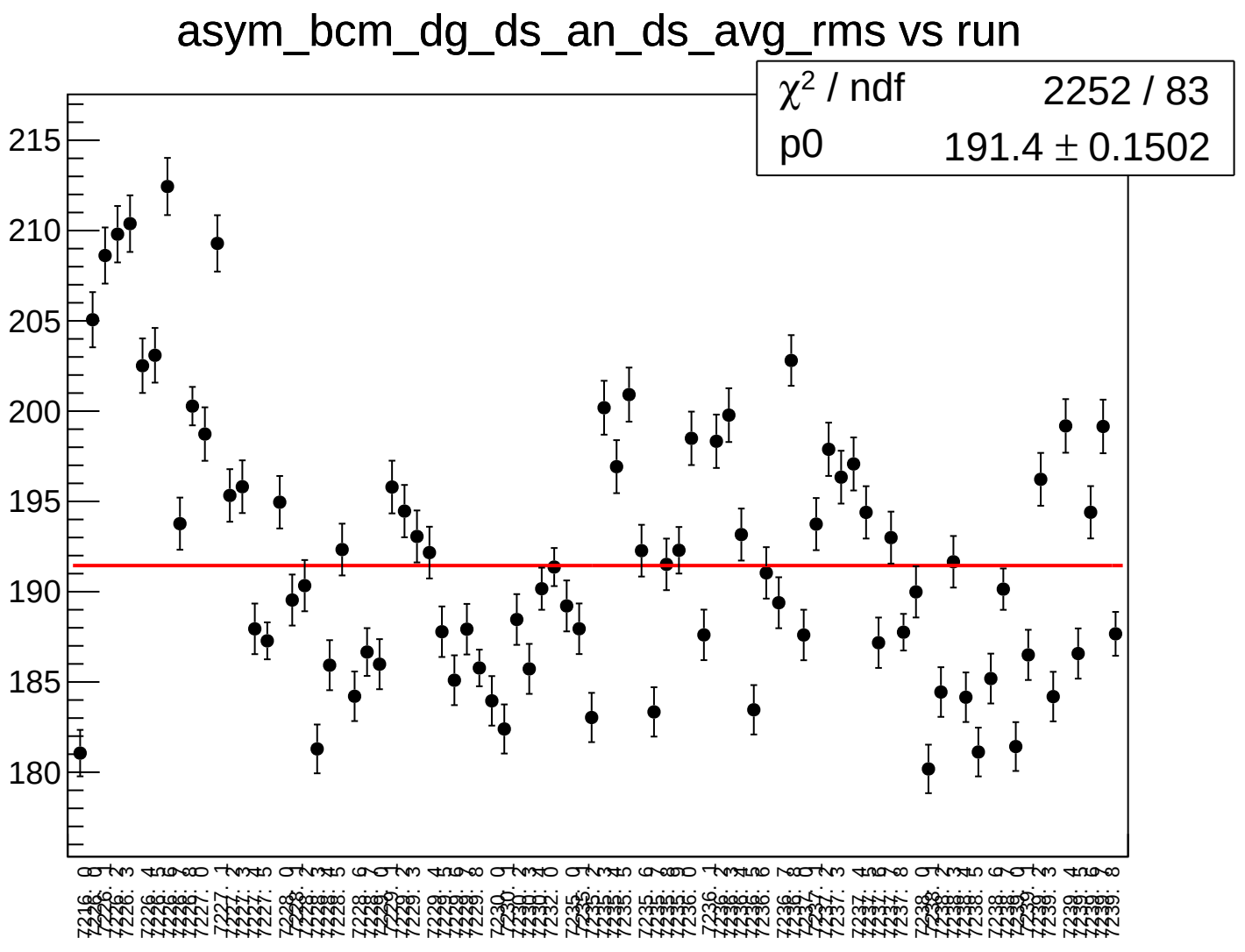

pull1D
Entries 84
Mean 0.002997
Std Dev 0.4759
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

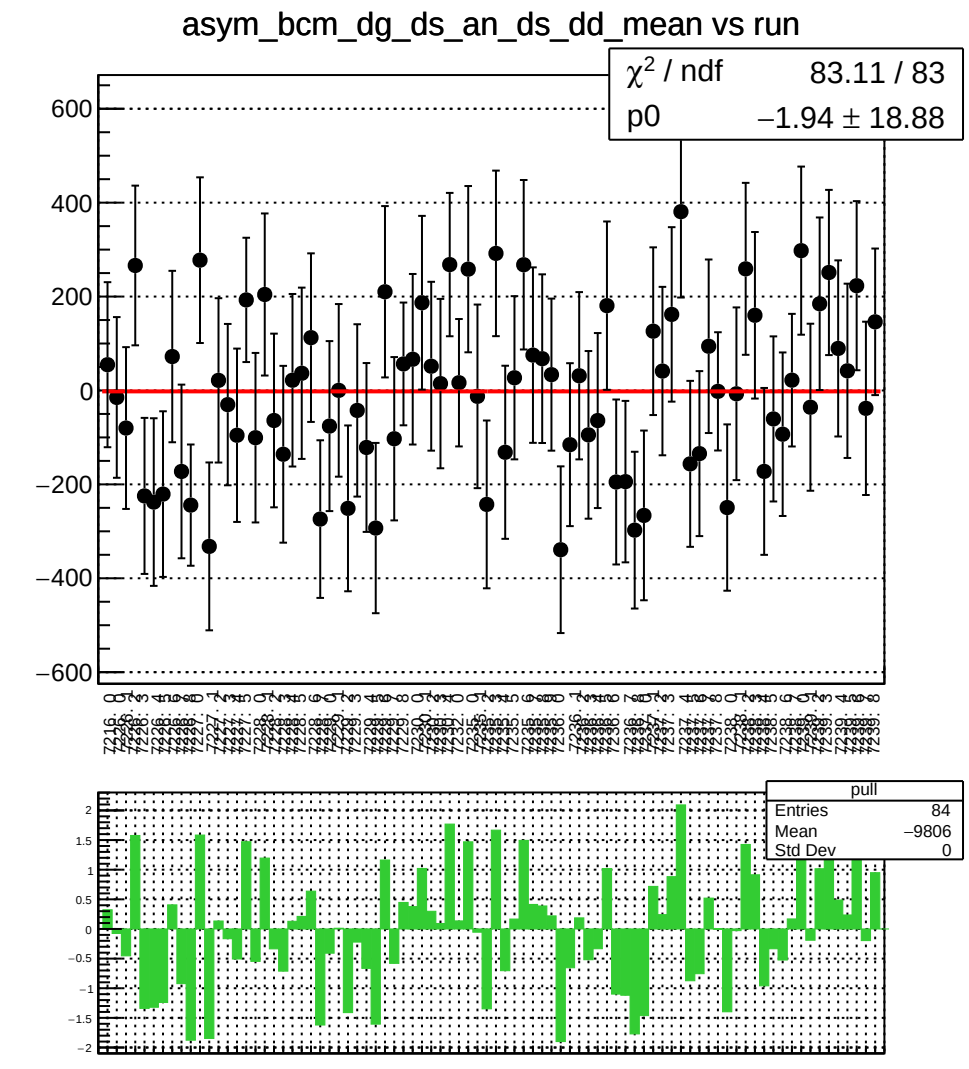

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 2190 / 83
p0 191.9 ± 0.1505
215
210
205
200
195
190
185
180

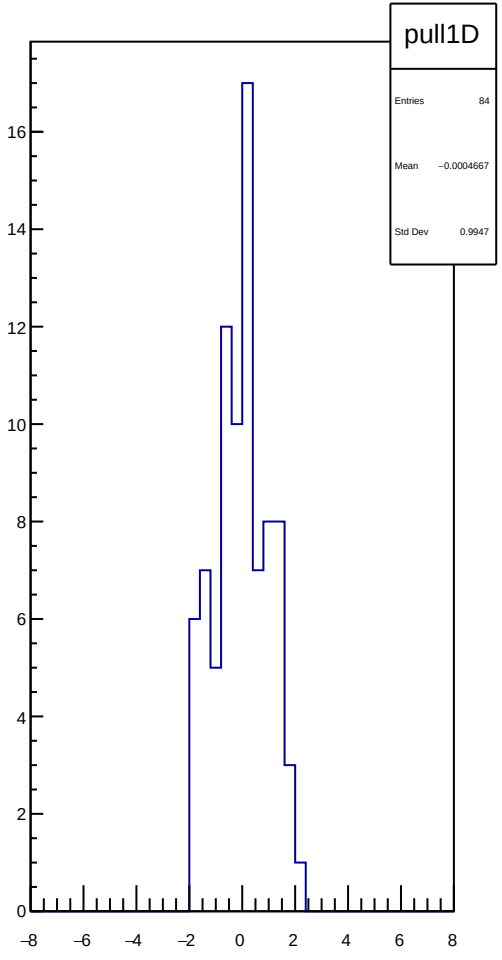

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 73.21 / 83
p0 −6.46 ± 26.35
pull
Entries 84
Mean −433
Std Dev 0
pull1D
Entries 84
Mean 0.002394
Std Dev 0.9336

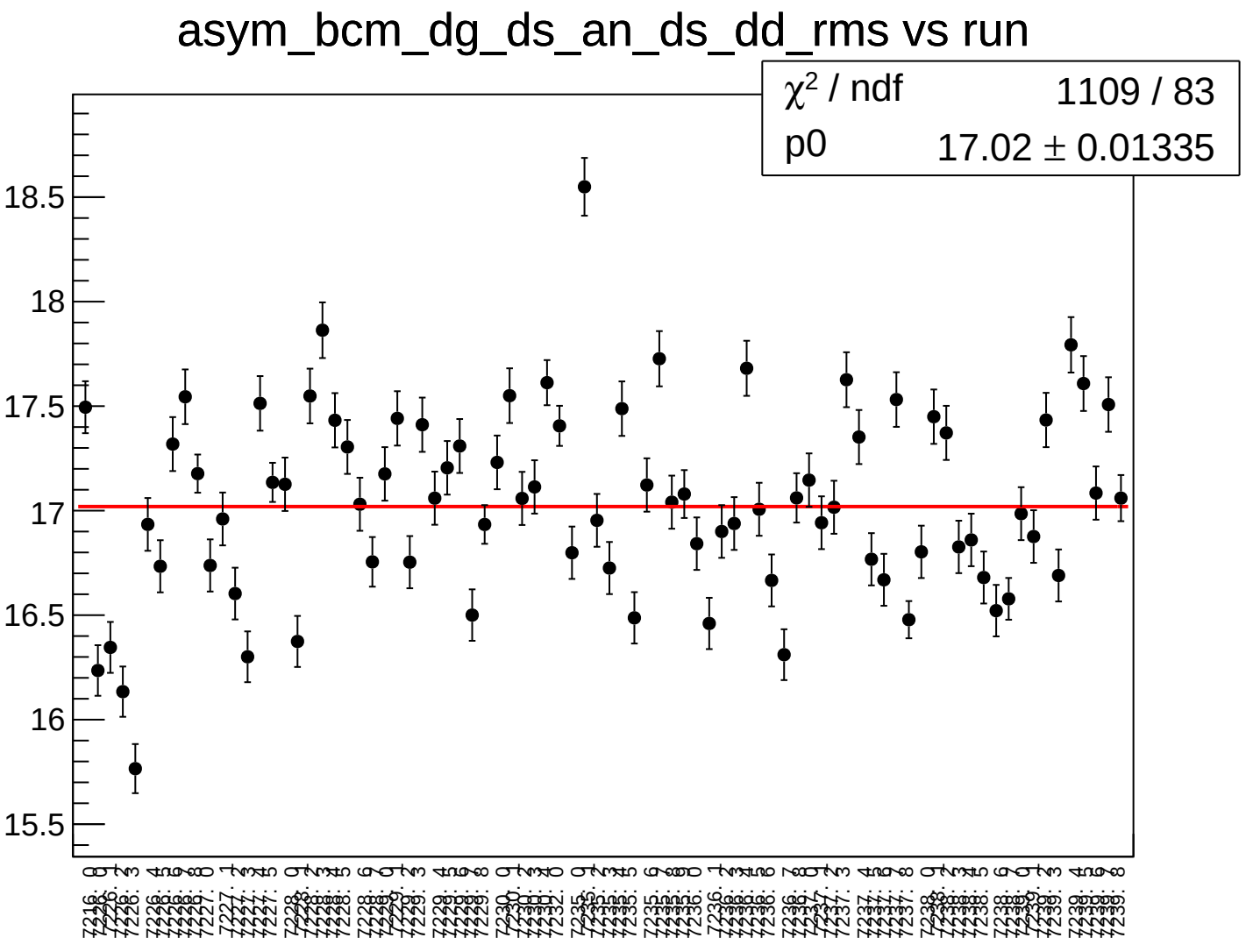

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 1113 / 83
p0 23.76 ± 0.01863
26
25.5
25
24.5
24
23.5
23
22.5
22

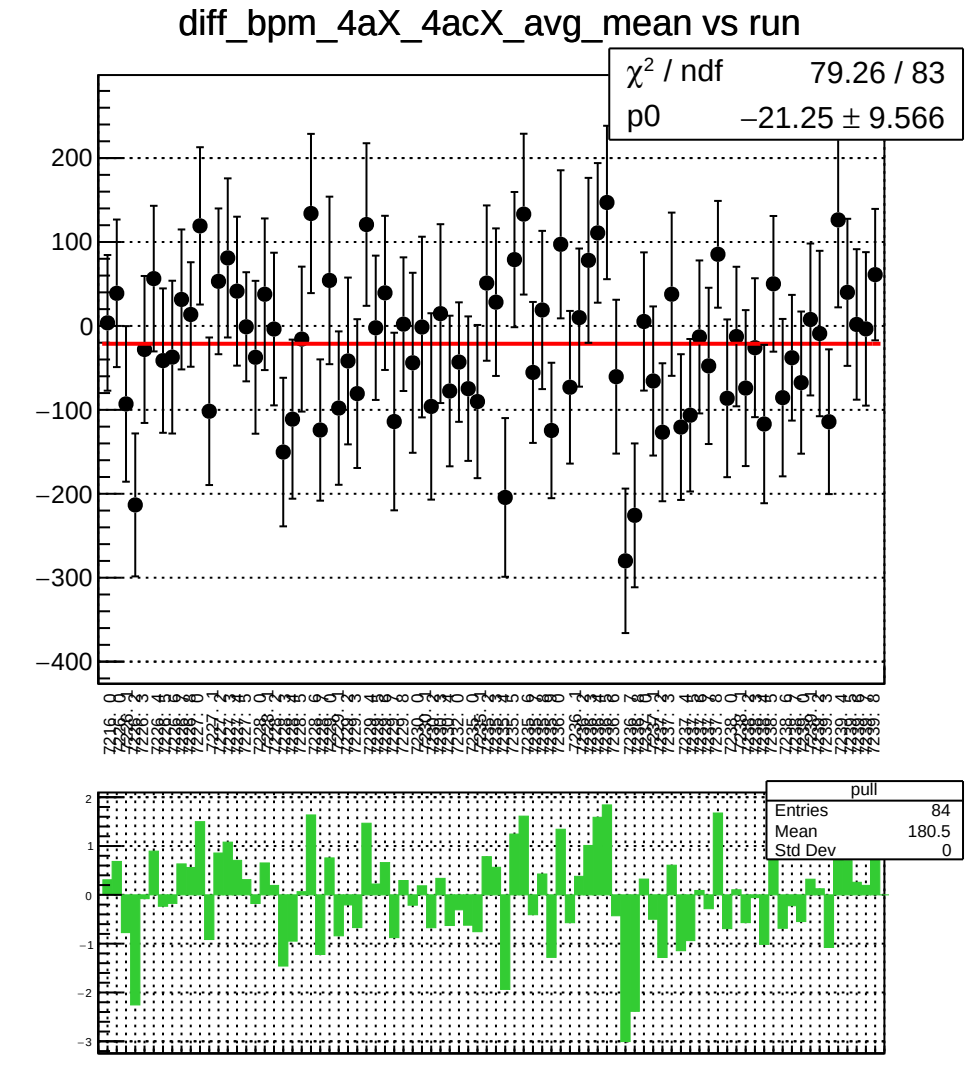

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 17.27 / 83
p0 87.06 ± 212.4
4000
2000
0
−2000
−4000
pull
Entries 84
Mean −32.8
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 84
Mean 0.002094
Std Dev 0.4534
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

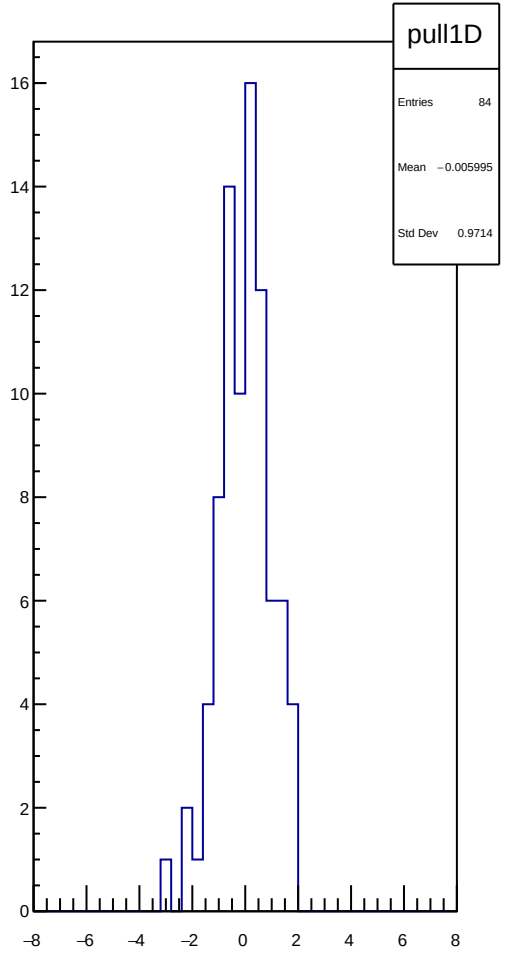

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ^2 / ndf 2252 / 83
p0 191.4 ± 0.1502
215
210
205
200
195
190
185
180

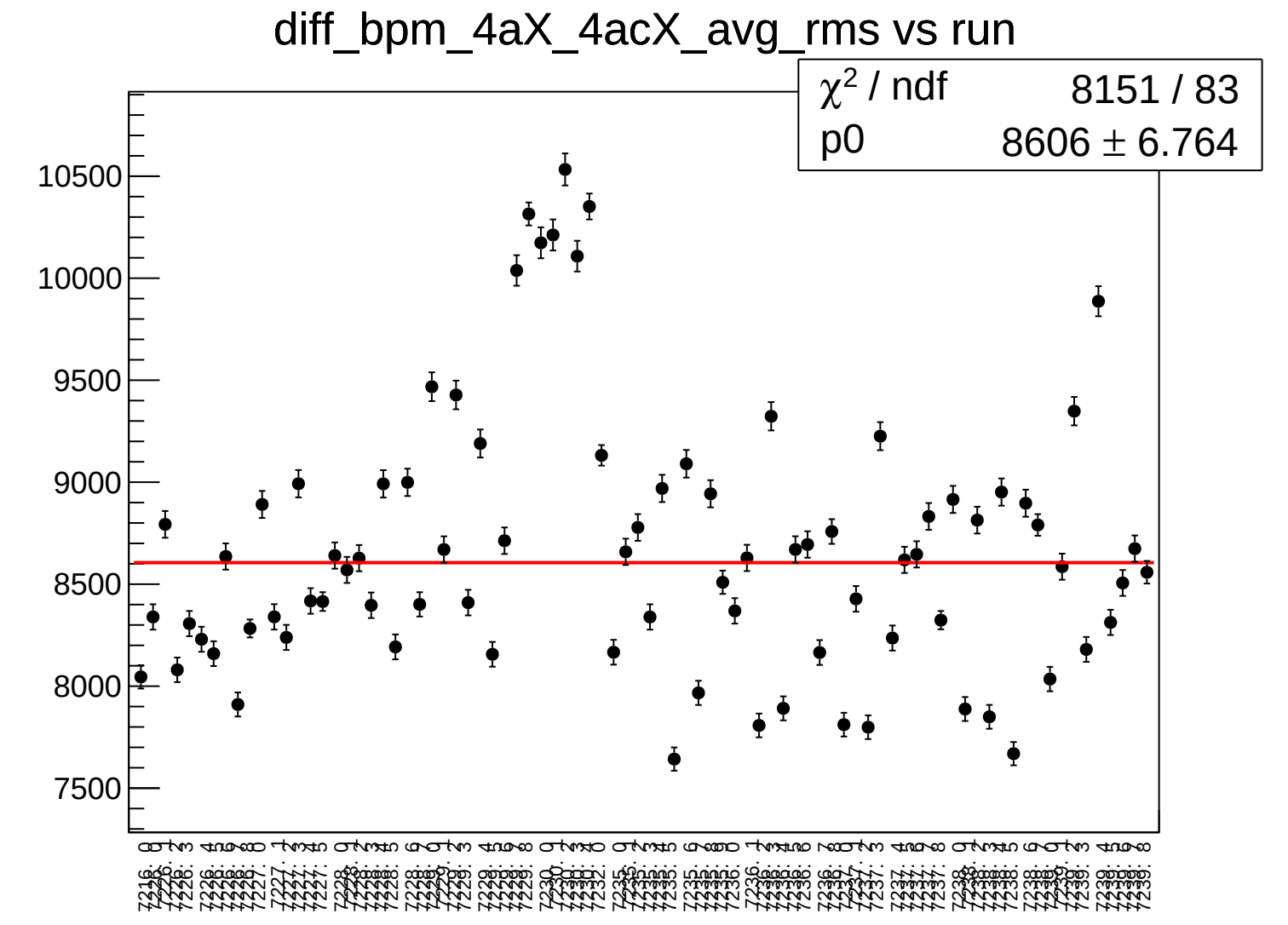

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 83.11 / 83
p0 −1.94 ± 18.88
pull
Entries 84
Mean −9806
Std Dev 0

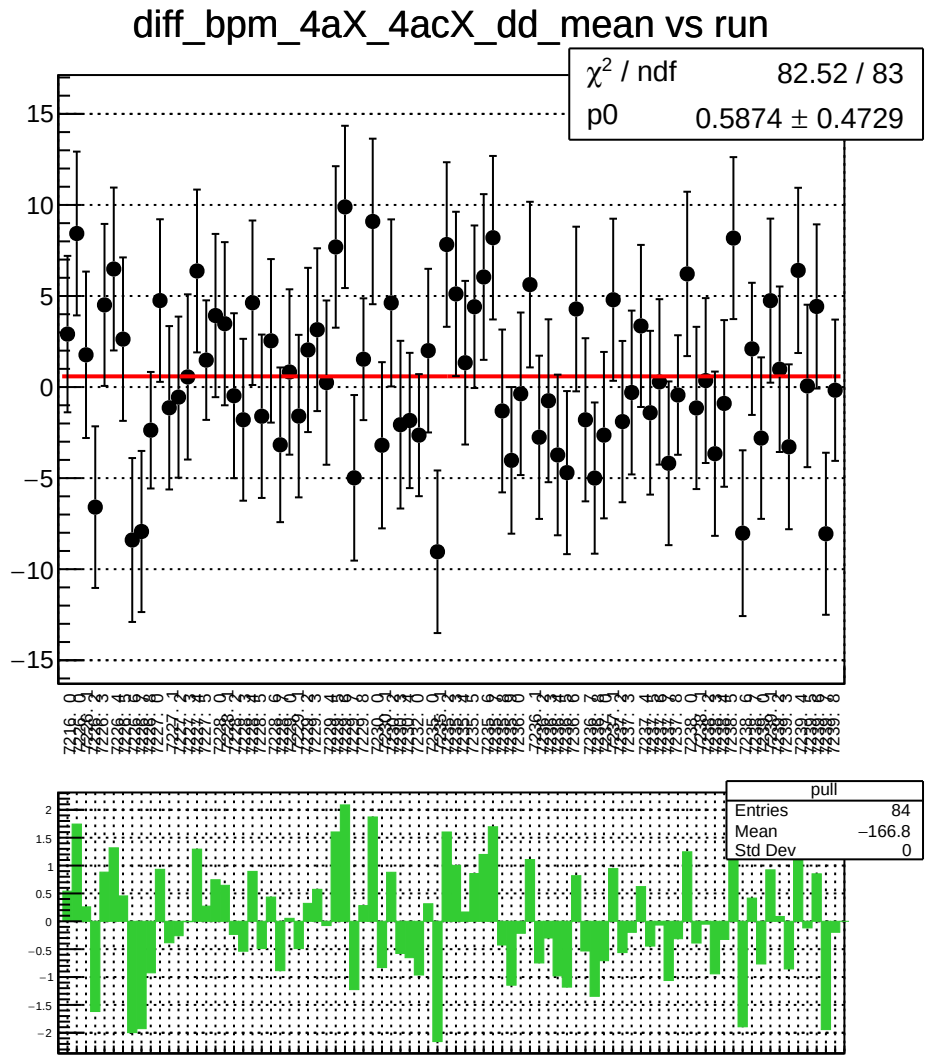

pull1D
Entries 84
Mean −0.0004667
Std Dev 0.9947

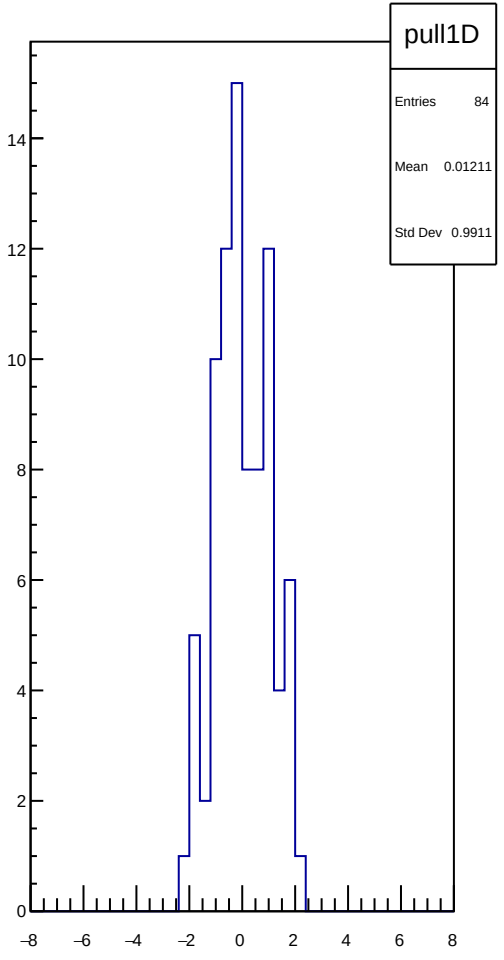

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 1109 / 83
p0 17.02 ± 0.01335
18.5
18
17.5
17
16.5
16
15.5

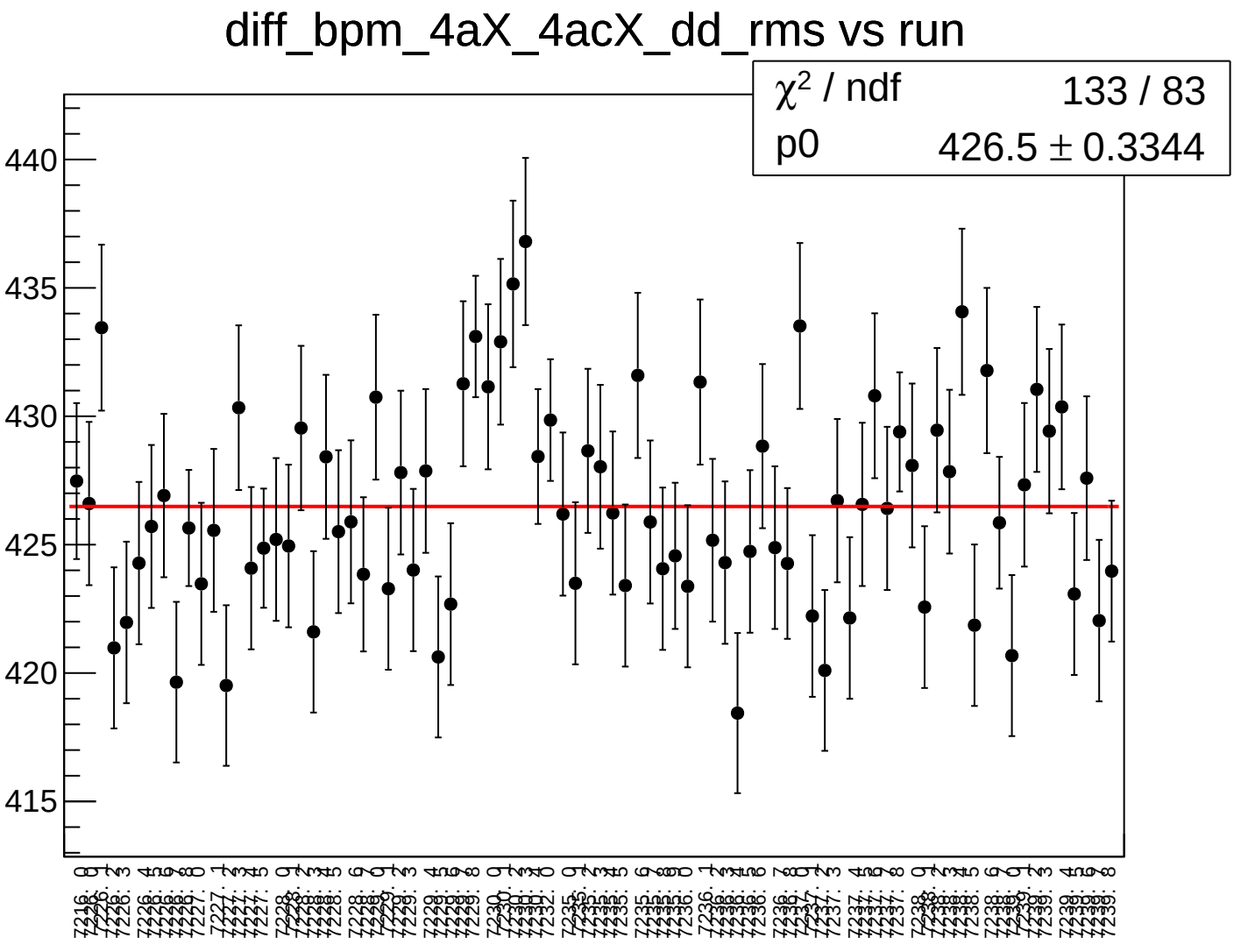

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 79.26 / 83
p0 −21.25 ± 9.566
pull
Entries 84
Mean 180.5
Std Dev 0

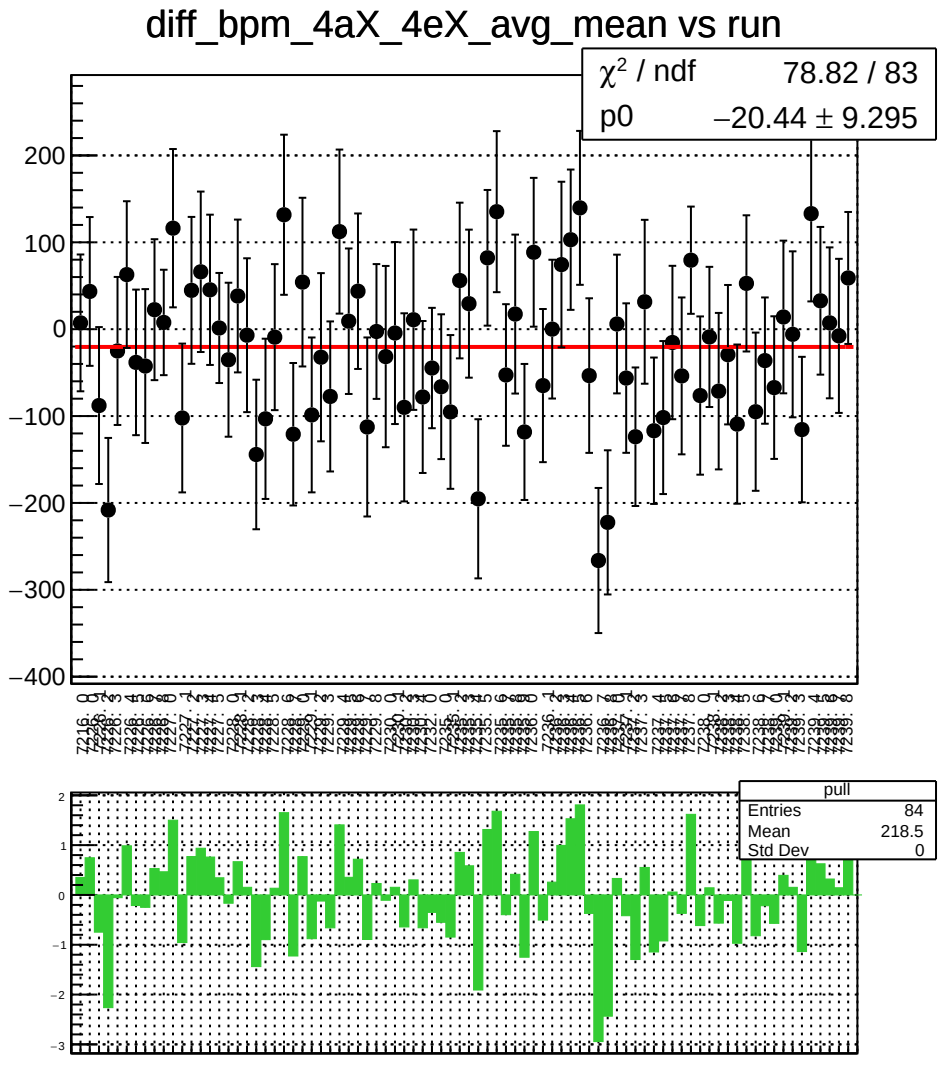

pull1D
Entries 84
Mean −0.005995
Std Dev 0.9714

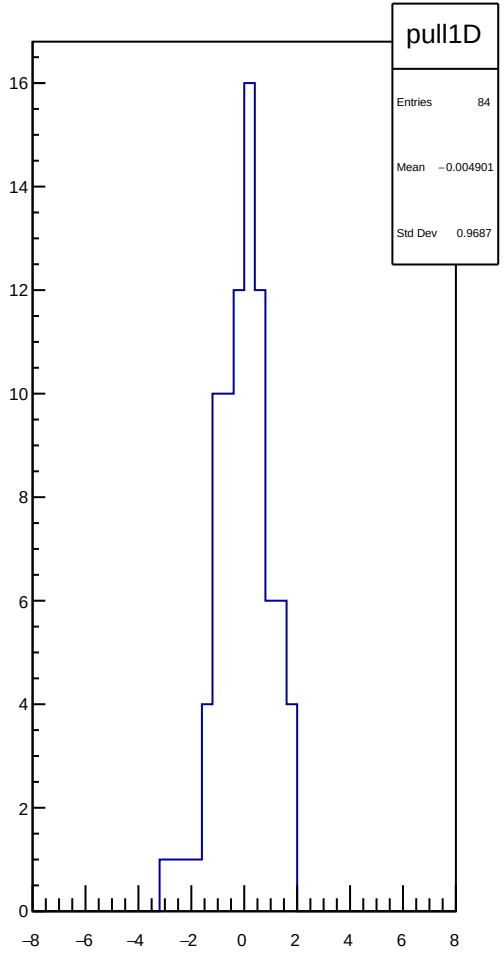

diff_bpm_4aX_4acX_avg_rms vs run
χ^2 / ndf 8151 / 83
p0 8606 ± 6.764
10500
10000
9500
9000
8500
8000
7500

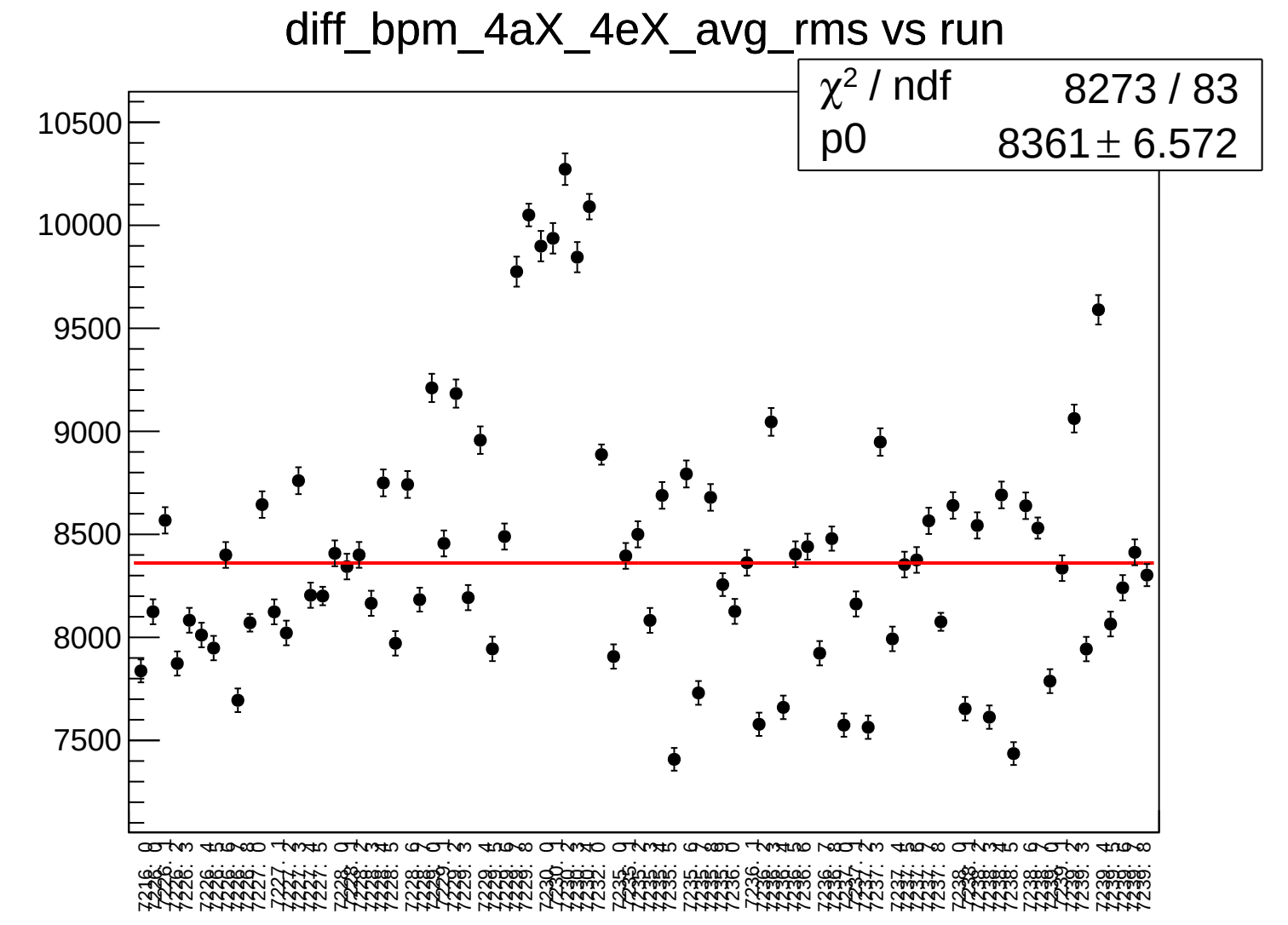

diff_bpm_4aX_4acX_dd_mean vs run
χ² / ndf 82.52 / 83
p0 0.5874 ± 0.4729
pull
Entries 84
Mean −166.8
Std Dev 0

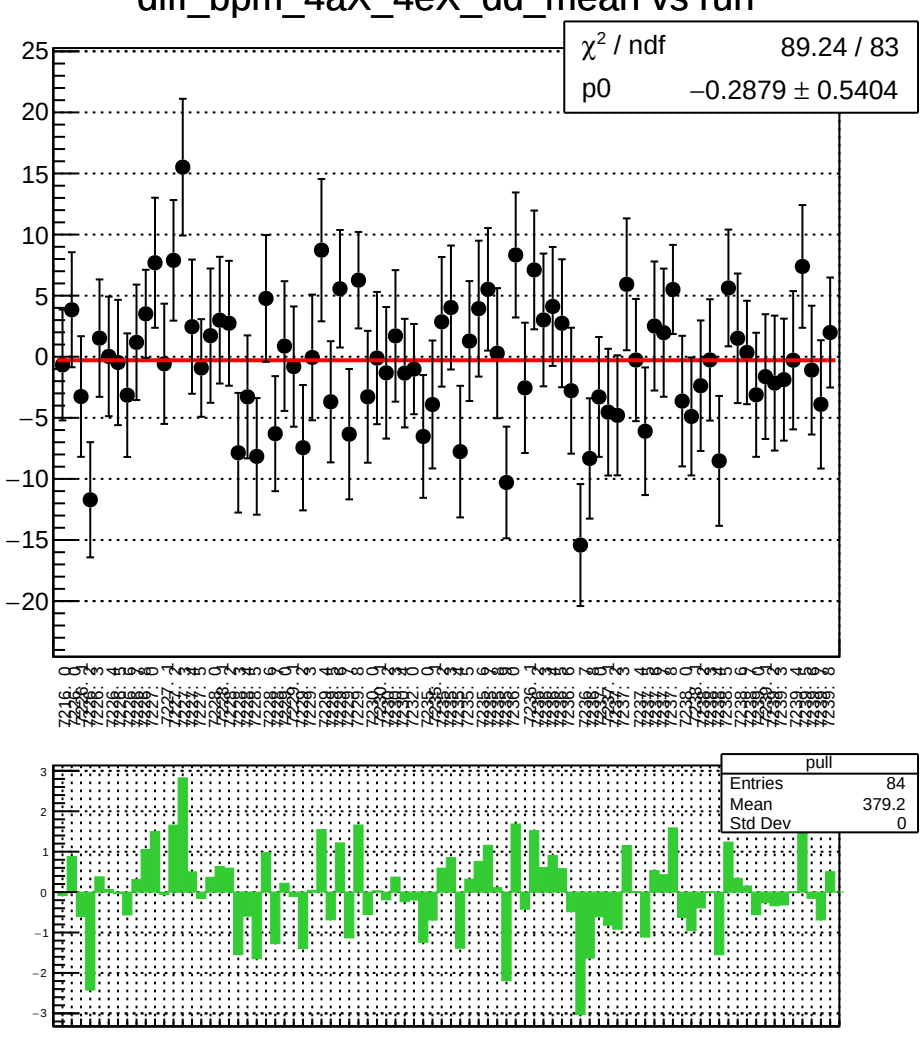

pull1D
Entries 84
Mean 0.01211
Std Dev 0.9911

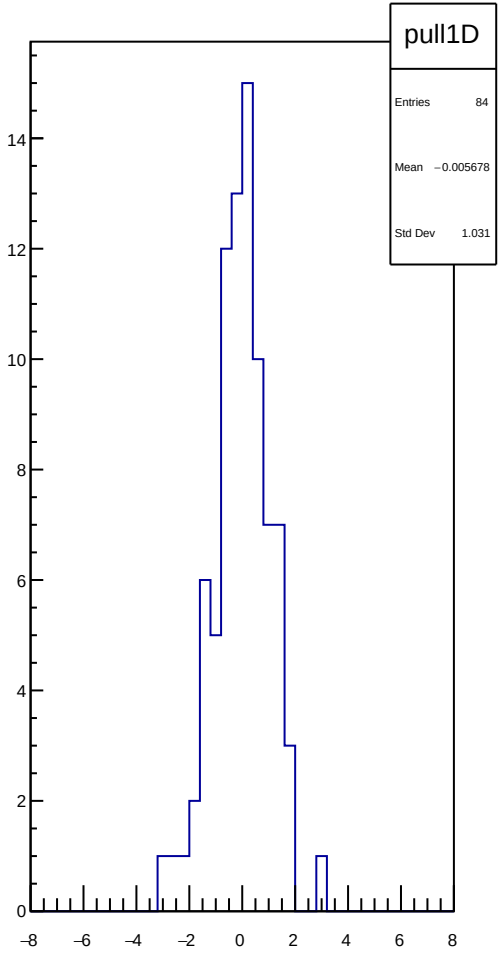

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 133 / 83
p0 426.5 ± 0.3344
440
435
430
425
420
415

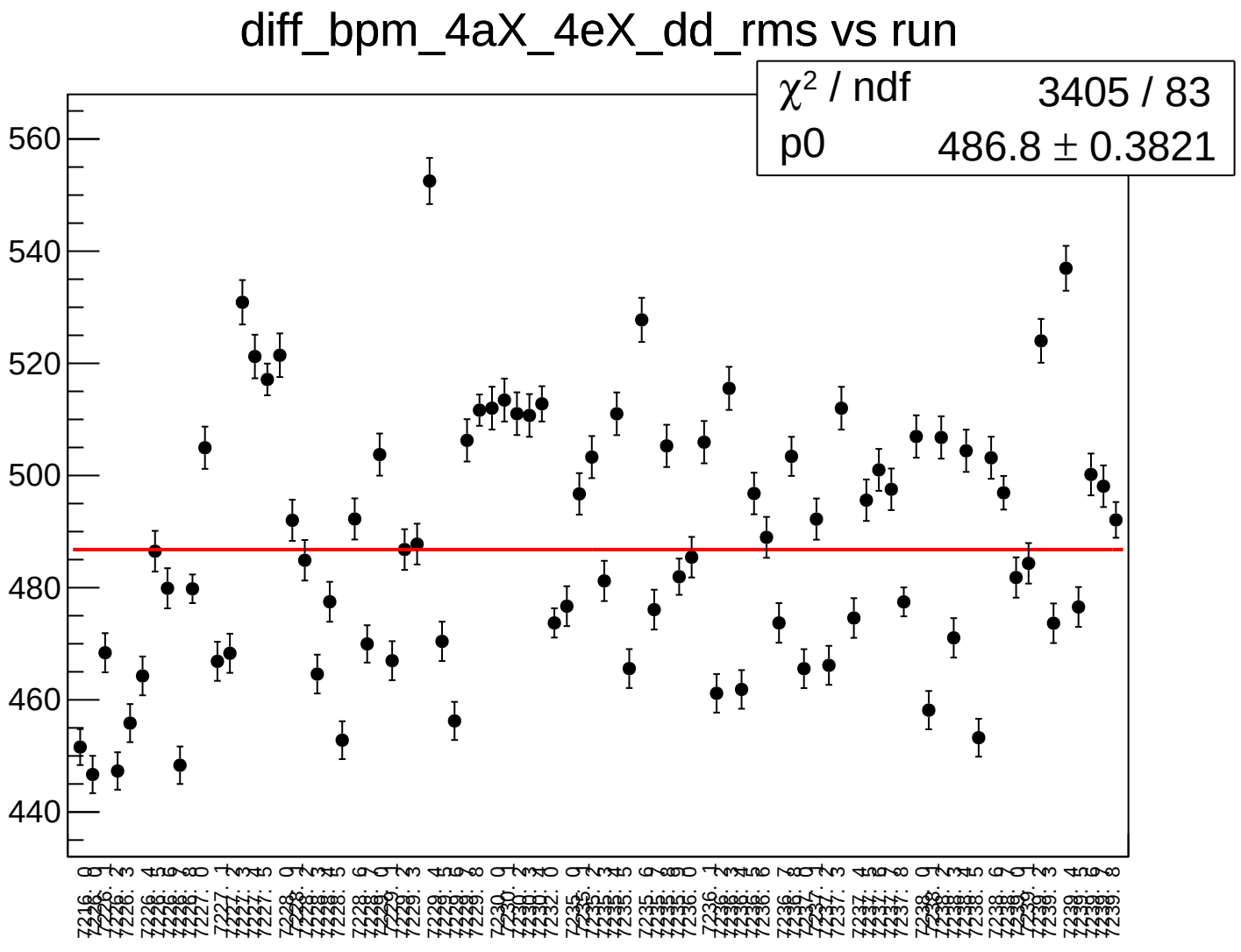

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 78.82 / 83
p0 −20.44 ± 9.295
200
100
0
−100
−200
−300
−400
pull
Entries 84
Mean 218.5
Std Dev 0
2
1
0
−1
−2
−3

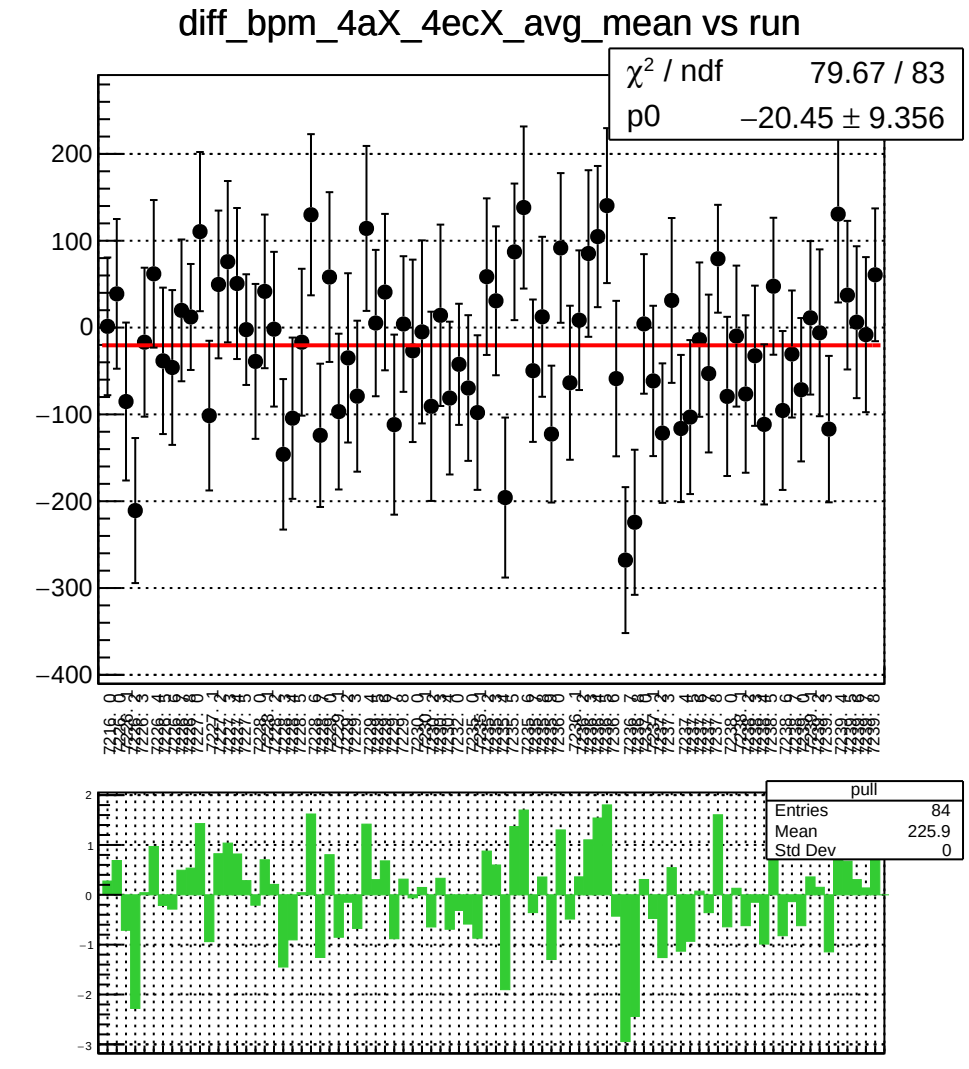

pull1D
Entries 84
Mean −0.004901
Std Dev 0.9687
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

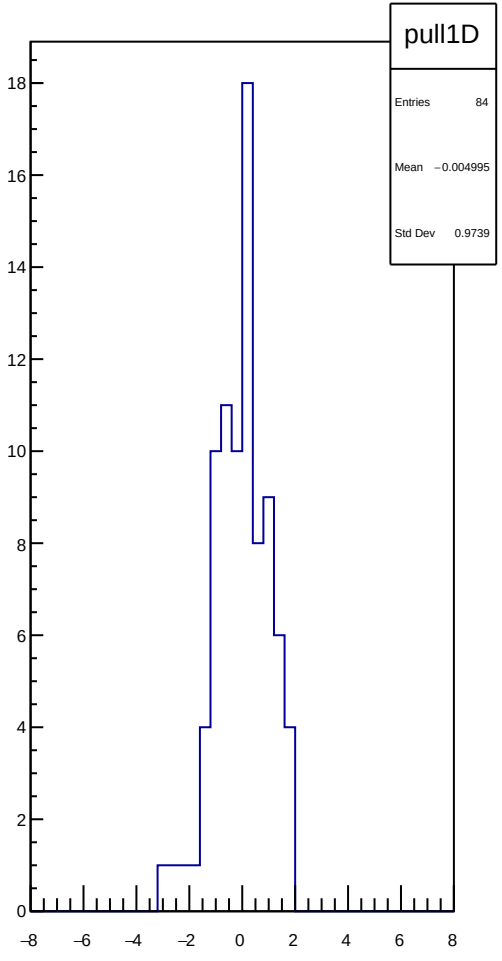

diff_bpm_4aX_4eX_avg_rms vs run
χ^2 / ndf 8273 / 83
p0 8361 ± 6.572
10500
10000
9500
9000
8500
8000
7500

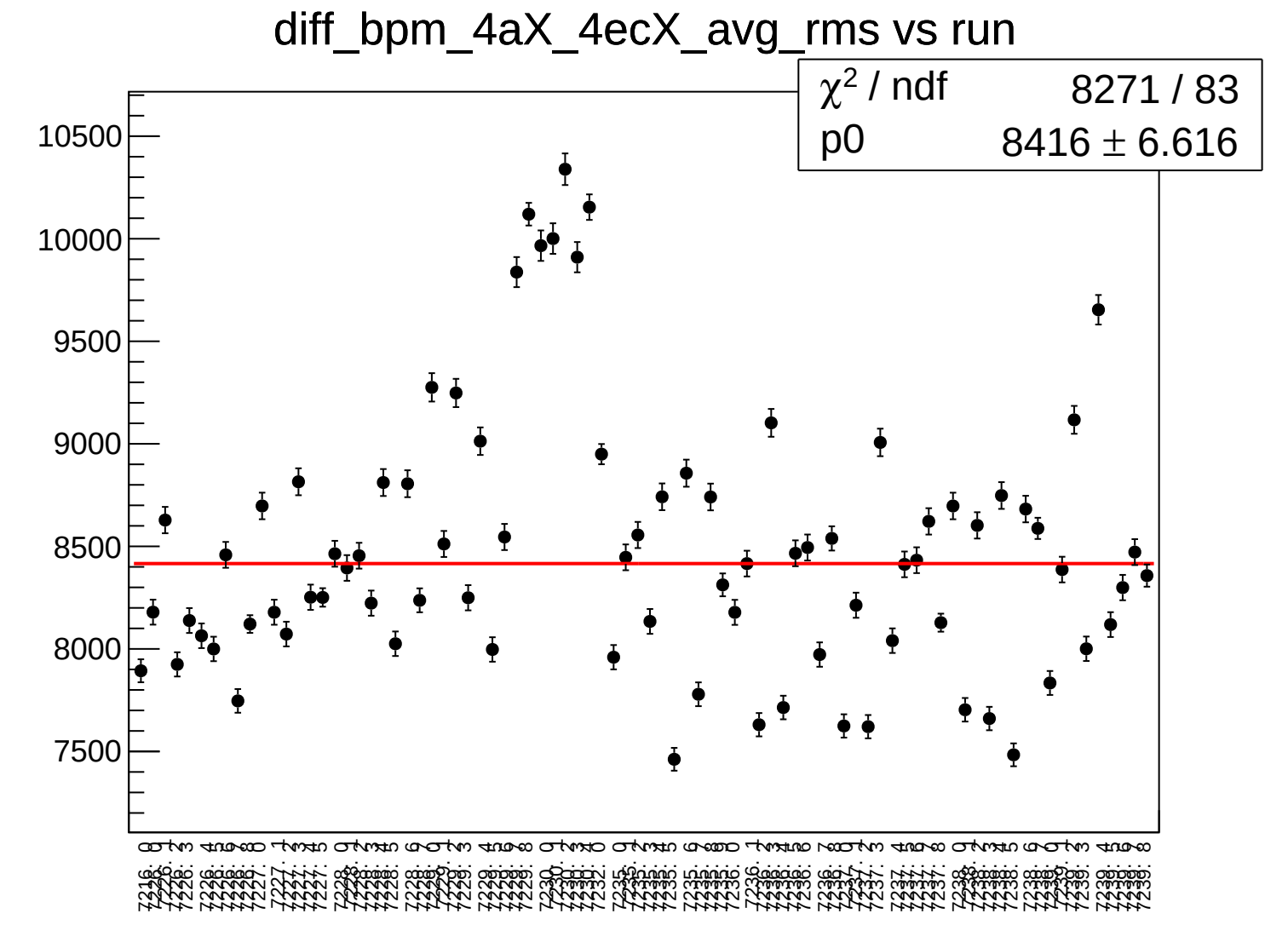

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 89.24 / 83
p0 −0.2879 ± 0.5404
pull
Entries 84
Mean 379.2
Std Dev 0

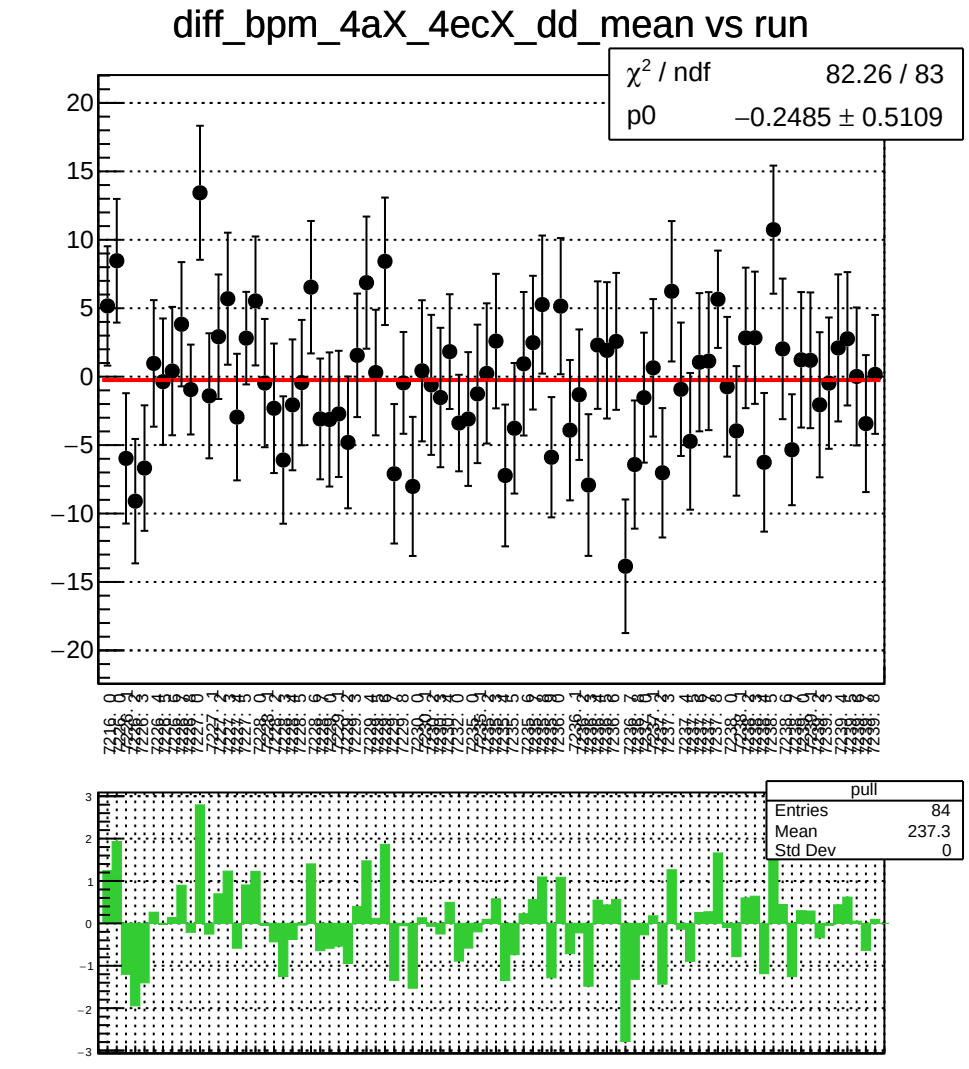

pull1D
Entries 84
Mean −0.005678
Std Dev 1.031

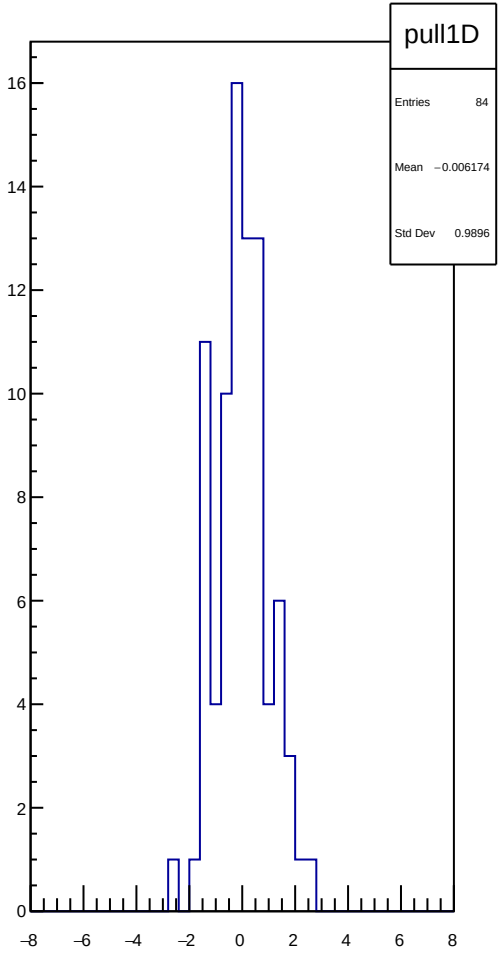

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 3405 / 83
p0 486.8 ± 0.3821
560
540
520
500
480
460
440

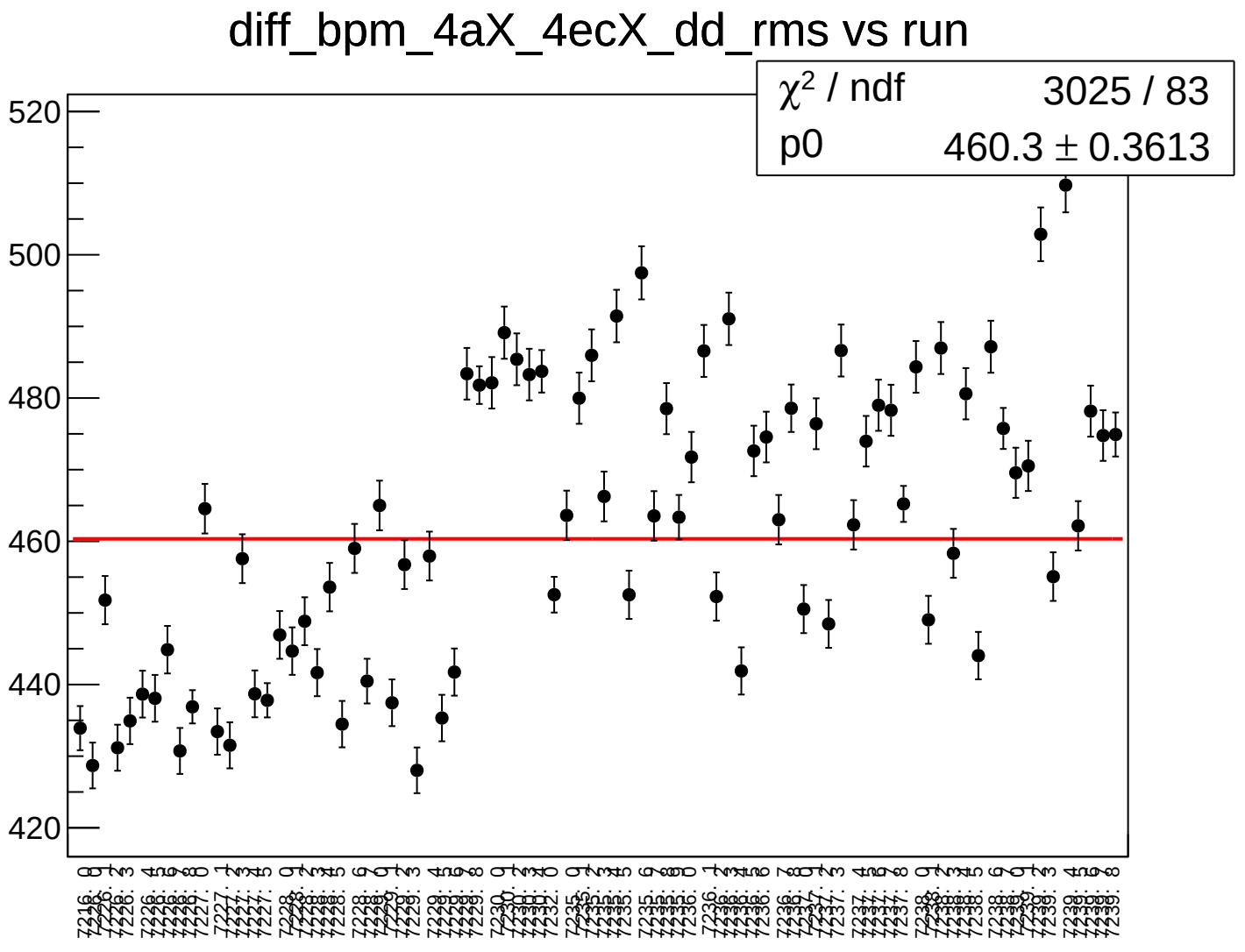

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 79.67 / 83
p0 −20.45 ± 9.356
pull
Entries 84
Mean 225.9
Std Dev 0

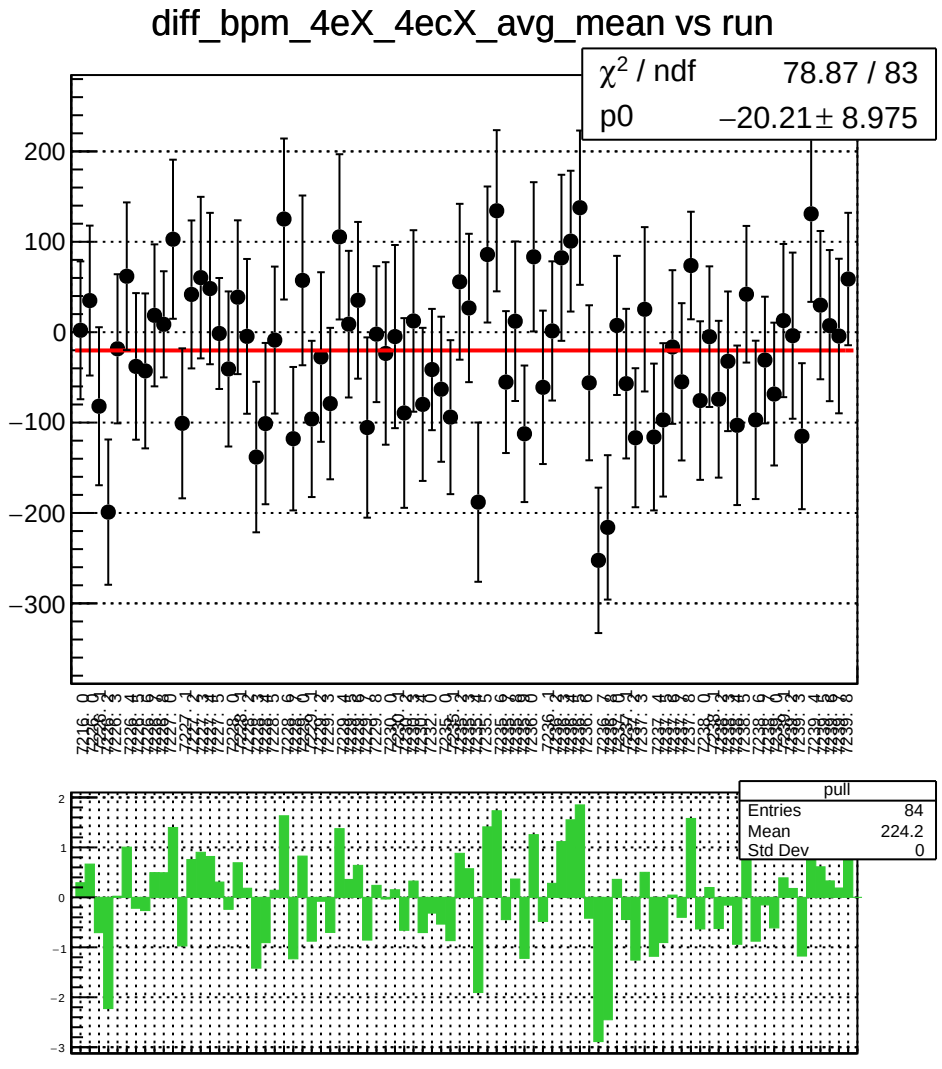

pull1D
Entries 84
Mean −0.004995
Std Dev 0.9739

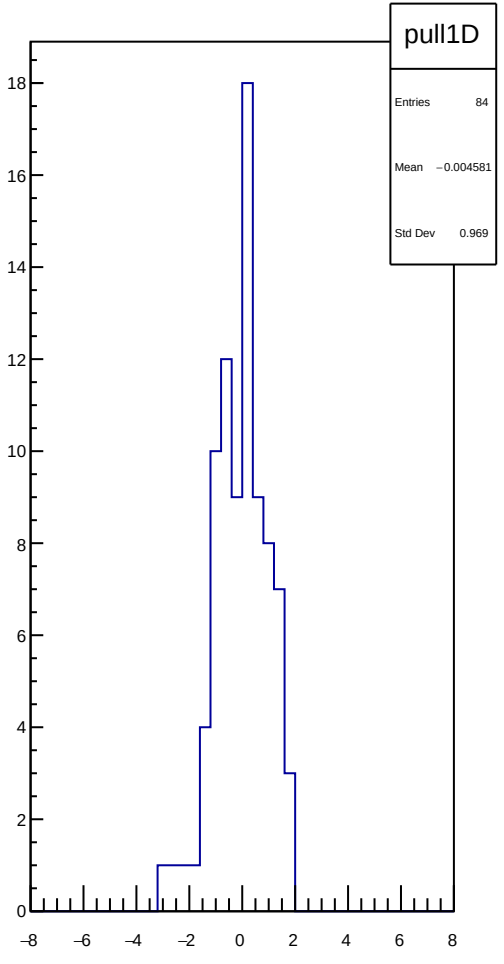

diff_bpm_4aX_4ecX_avg_rms vs run
χ^2 / ndf 8271 / 83
p0 8416 ± 6.616
10500
10000
9500
9000
8500
8000
7500

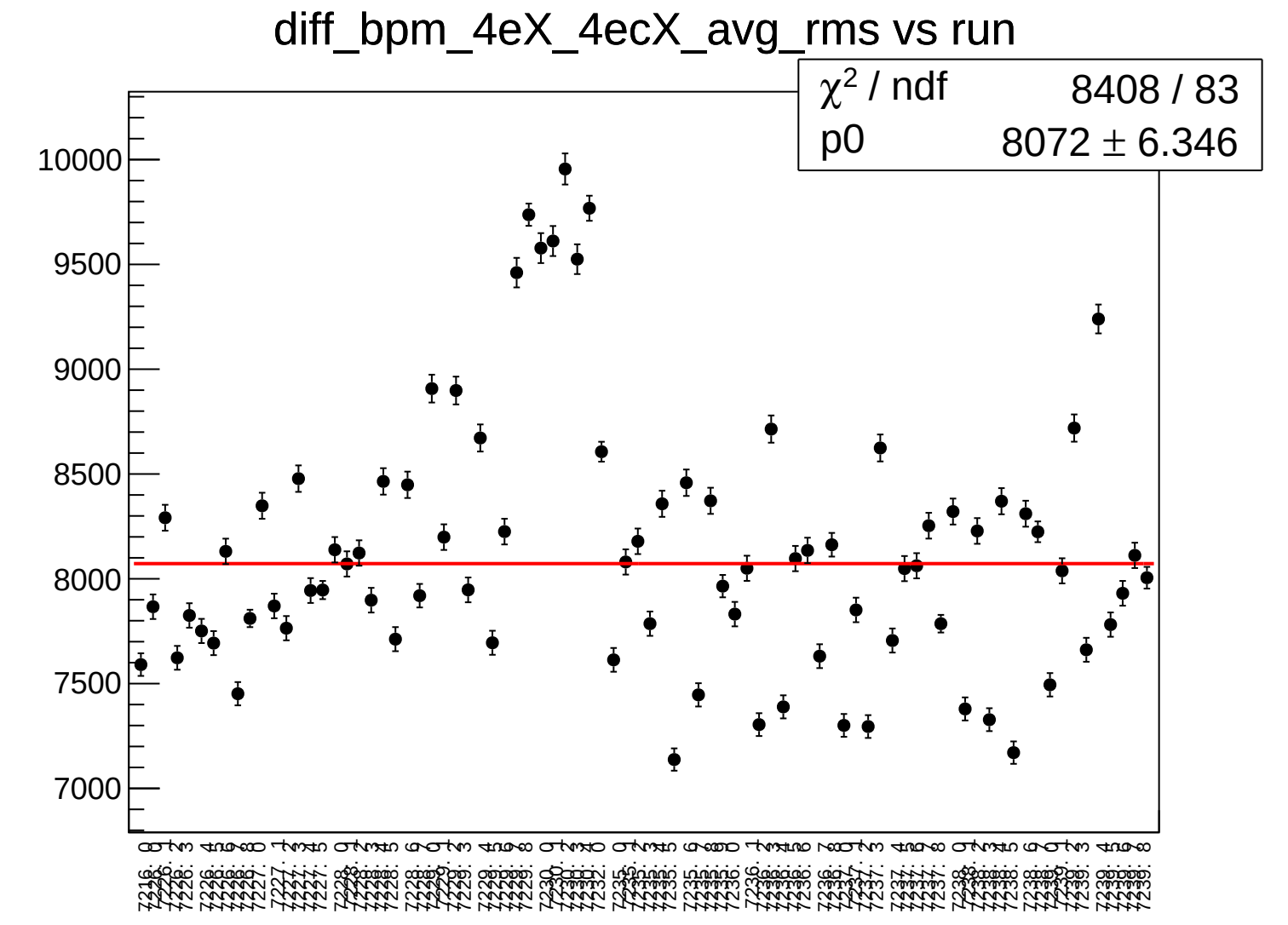

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 82.26 / 83
p0 −0.2485 ± 0.5109
pull
Entries 84
Mean 237.3
Std Dev 0

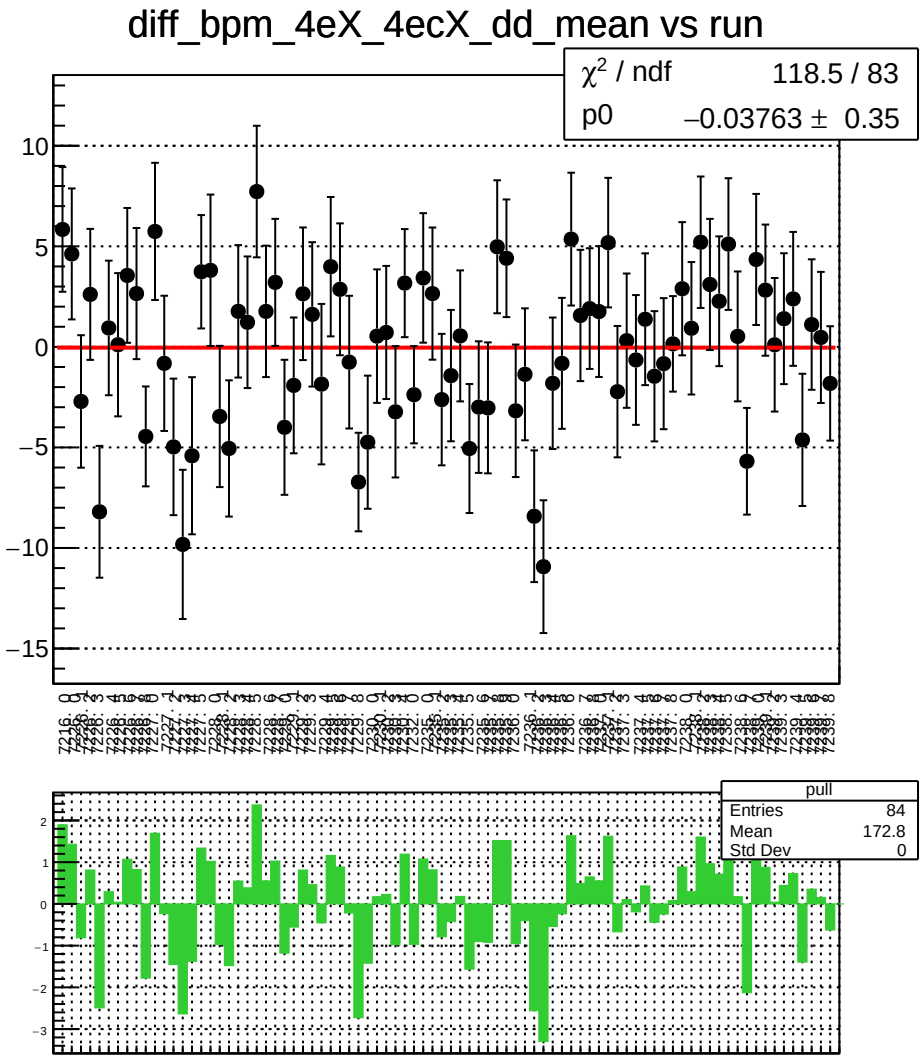

pull1D
Entries 84
Mean −0.006174
Std Dev 0.9896

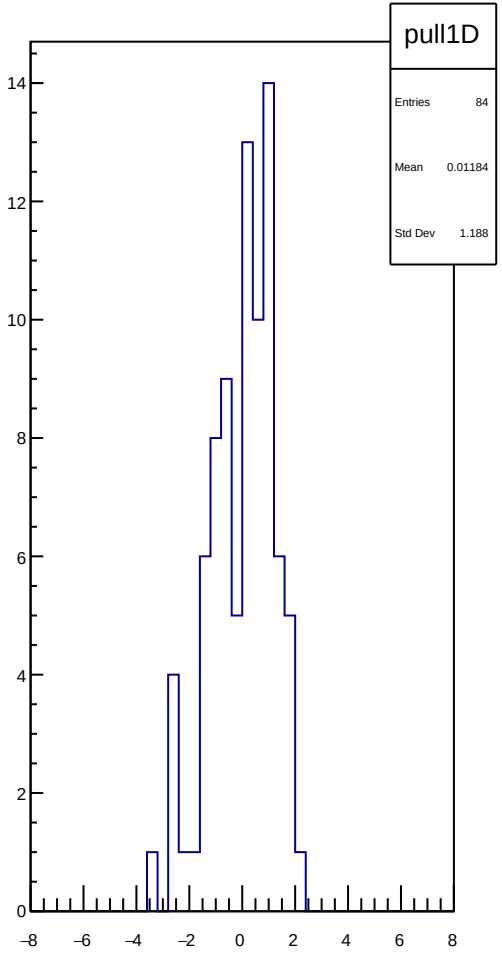

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 3025 / 83
p0 460.3 ± 0.3613
520
500
480
460
440
420

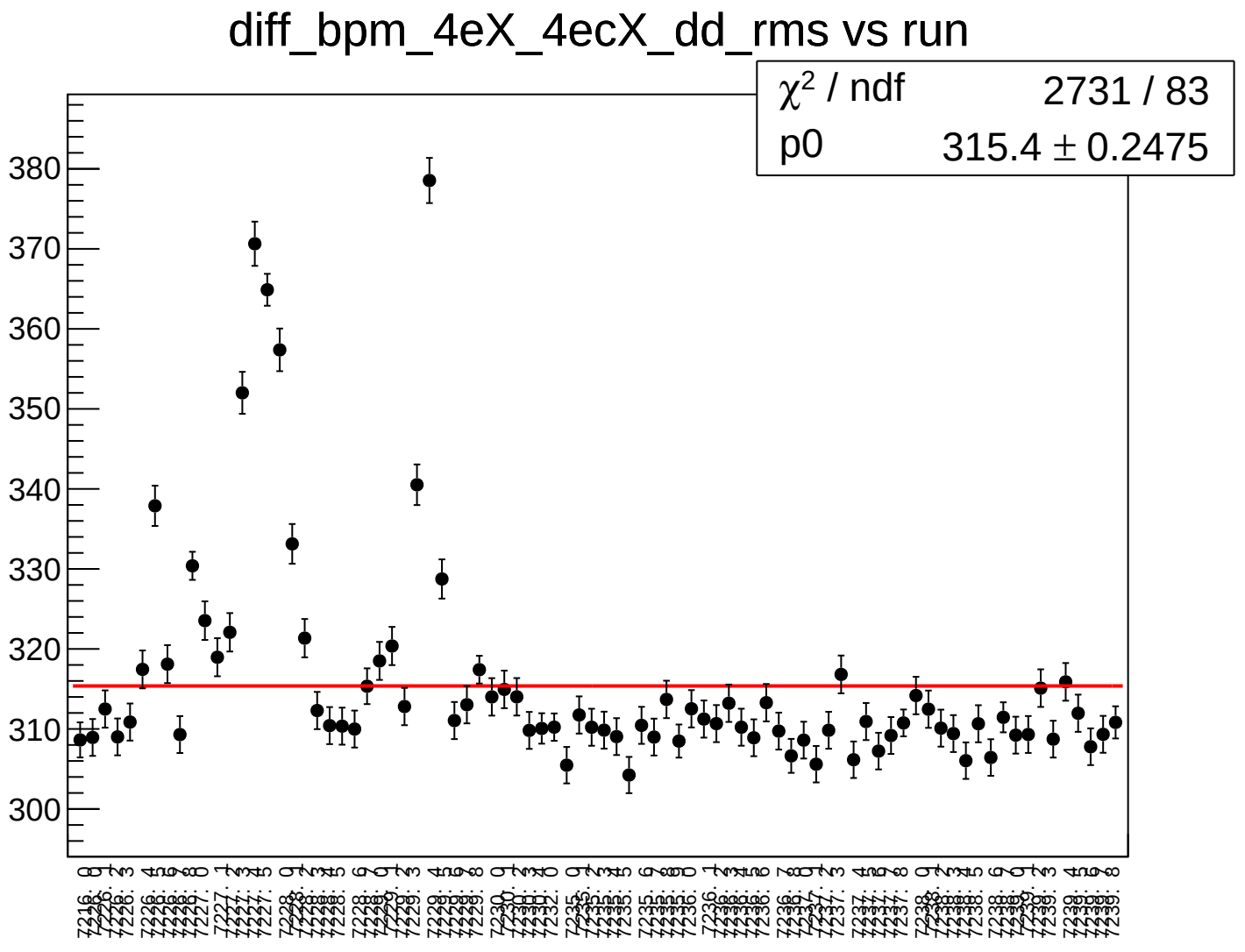

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 78.87 / 83
p0 −20.21 ± 8.975
pull
Entries 84
Mean 224.2
Std Dev 0

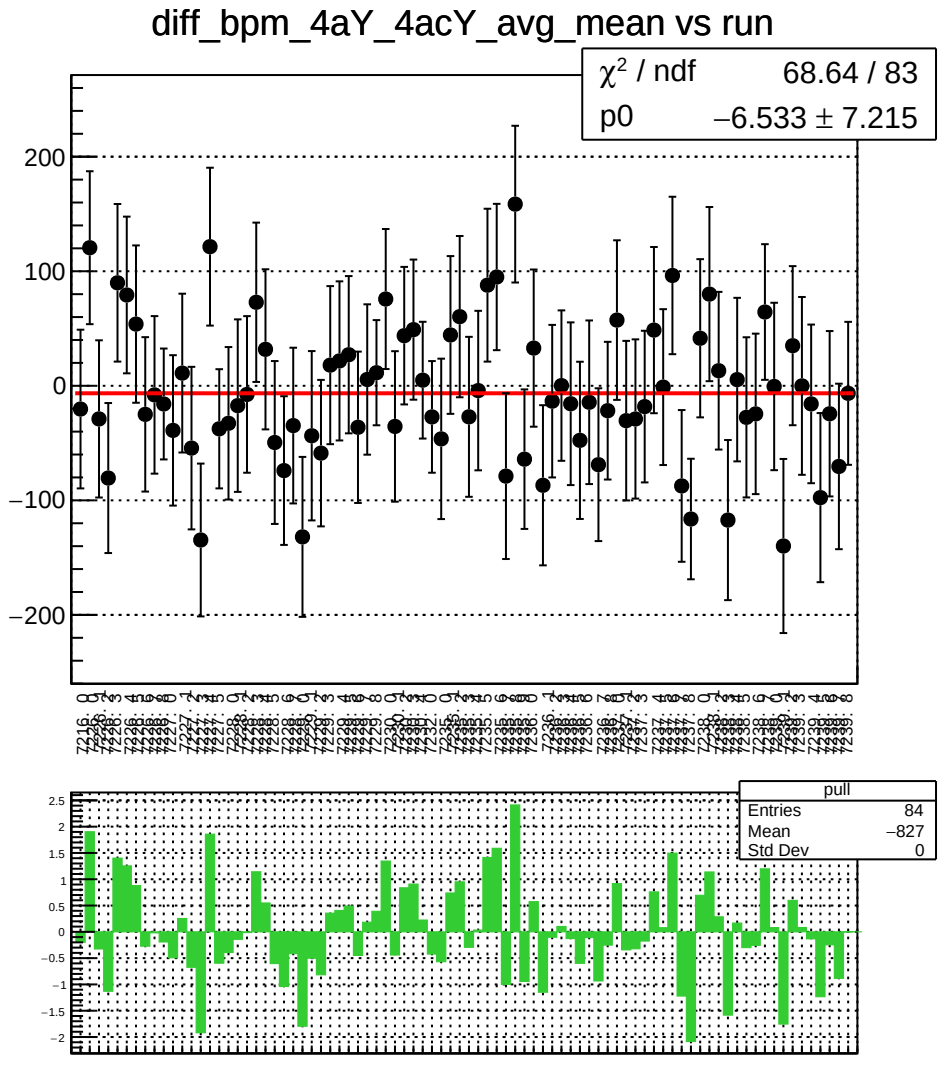

pull1D
Entries 84
Mean −0.004581
Std Dev 0.969

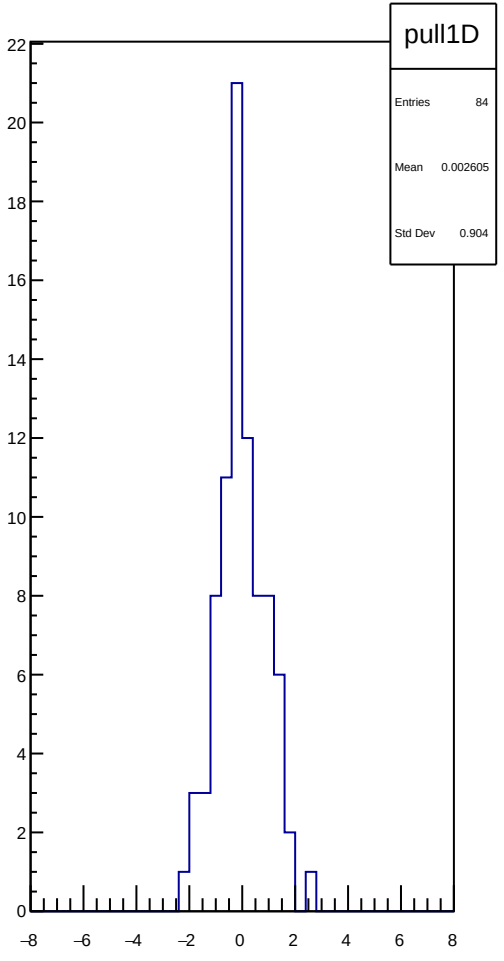

diff_bpm_4eX_4ecX_avg_rms vs run
χ^2 / ndf 8408 / 83
p0 8072 ± 6.346
10000
9500
9000
8500
8000
7500
7000

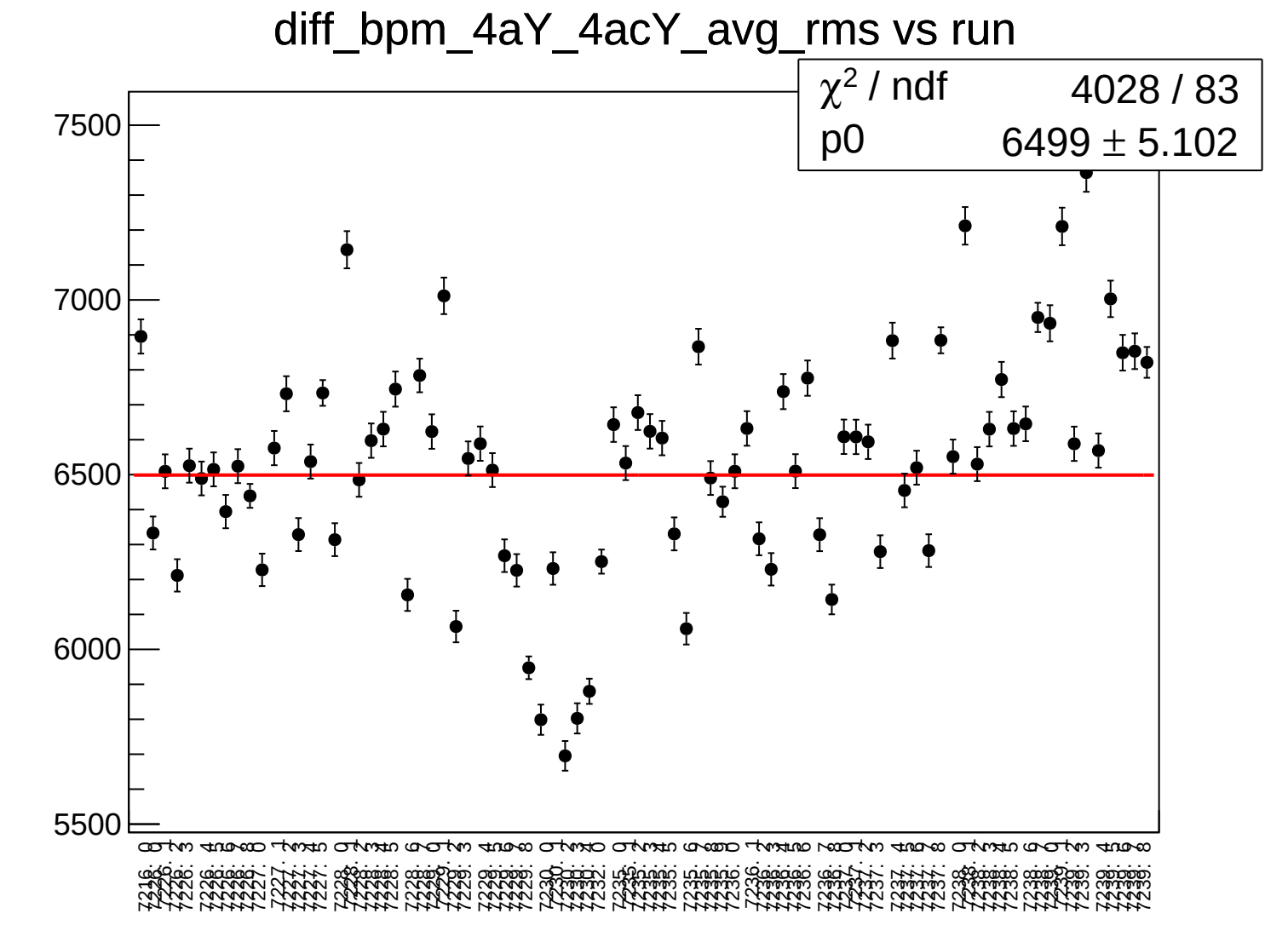

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 118.5 / 83
p0 −0.03763 ± 0.35
pull
Entries 84
Mean 172.8
Std Dev 0

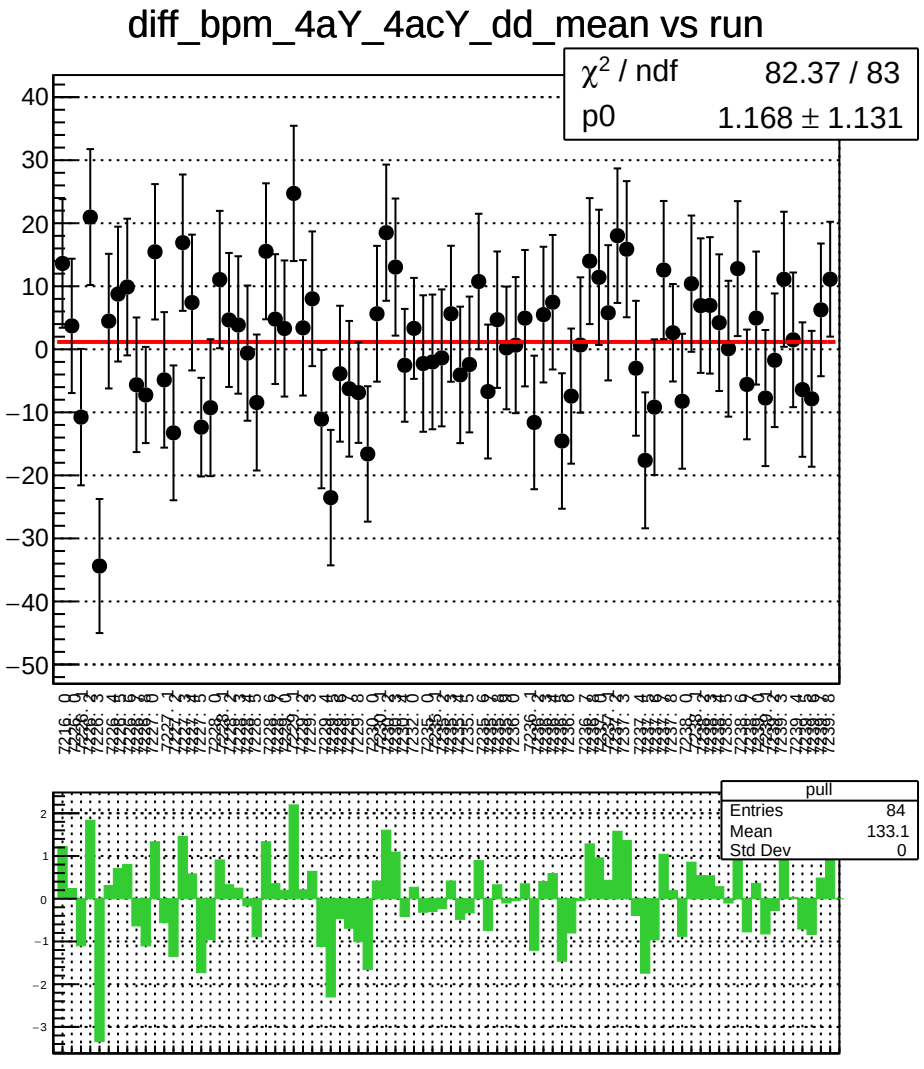

pull1D
Entries 84
Mean 0.01184
Std Dev 1.188

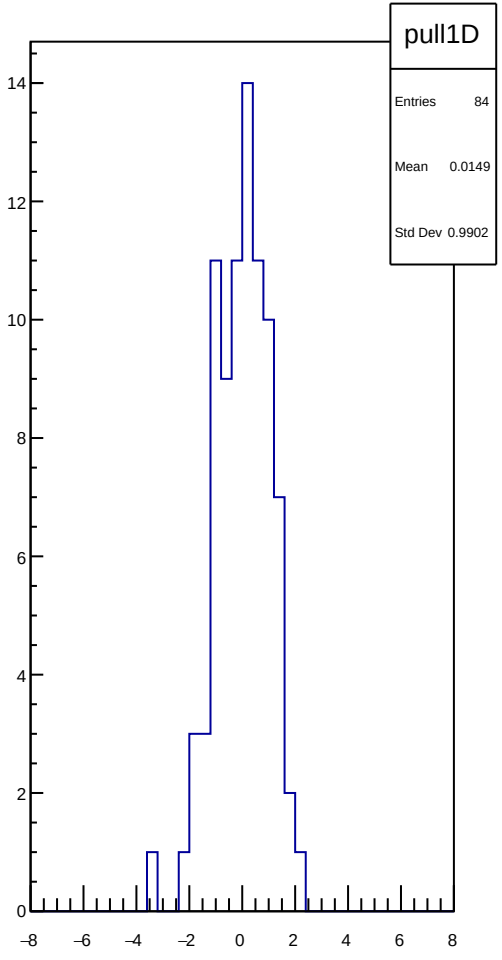

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 2731 / 83
p0 315.4 ± 0.2475
380
370
360
350
340
330
320
310
300

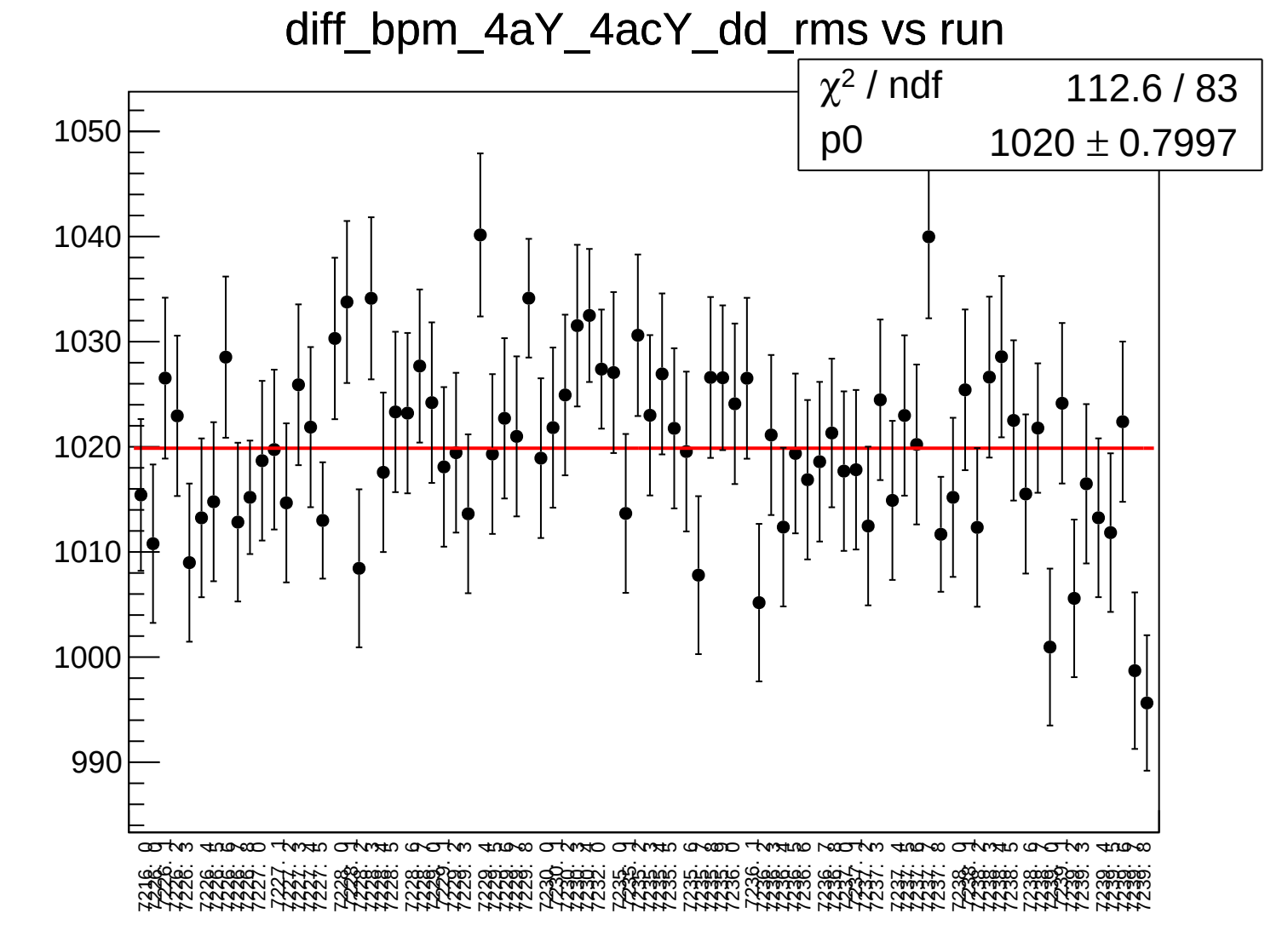

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 68.64 / 83
p0 −6.533 ± 7.215
200
100
0
−100
−200
pull
Entries 84
Mean −827
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

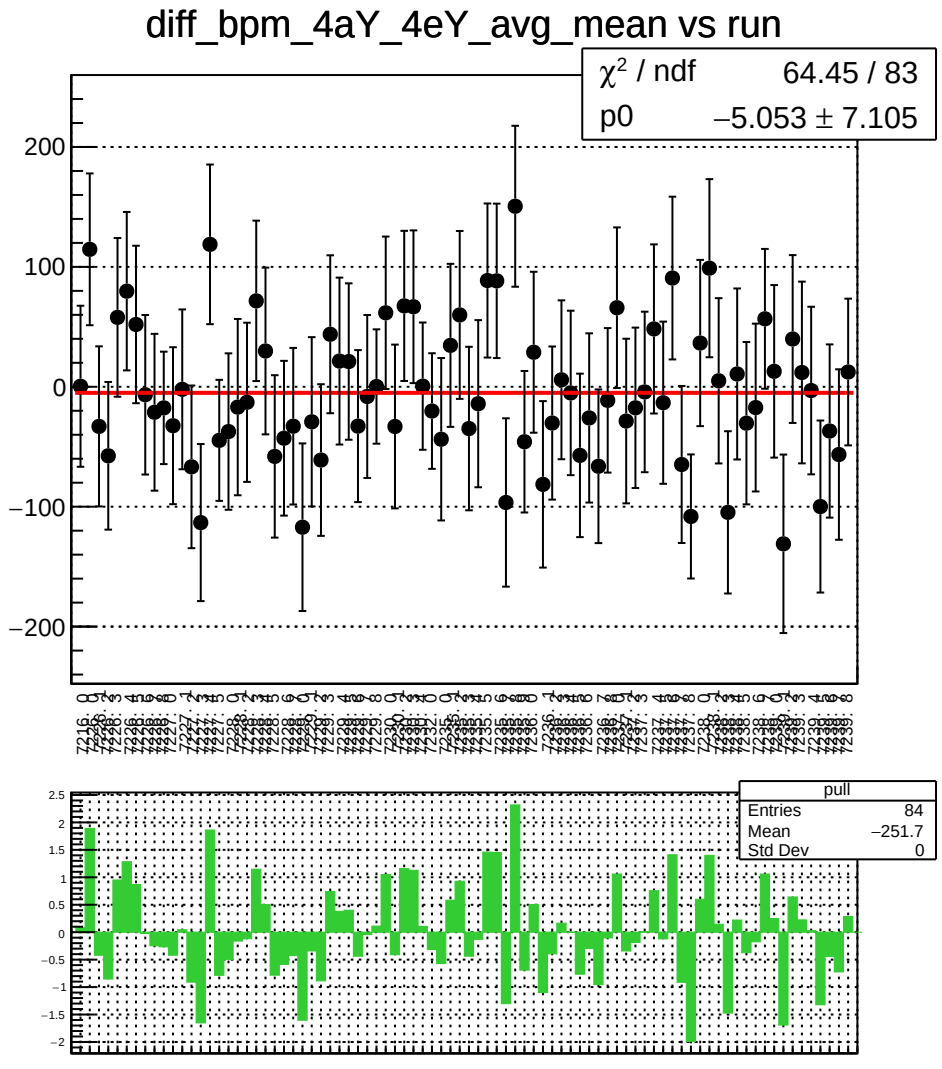

pull1D
Entries 84
Mean 0.002605
Std Dev 0.904
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

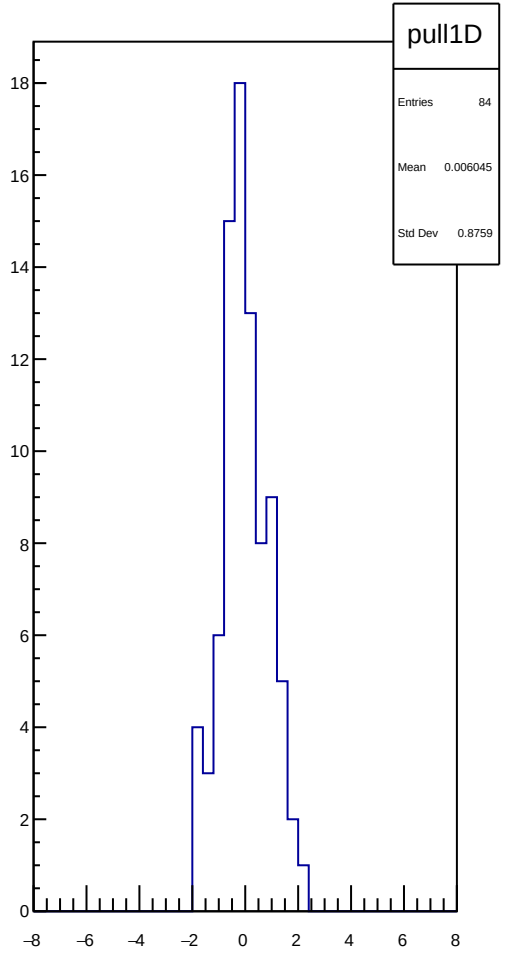

diff_bpm_4aY_4acY_avg_rms vs run
χ² / ndf 4028 / 83
p0 6499 ± 5.102
7500
7000
6500
6000
5500

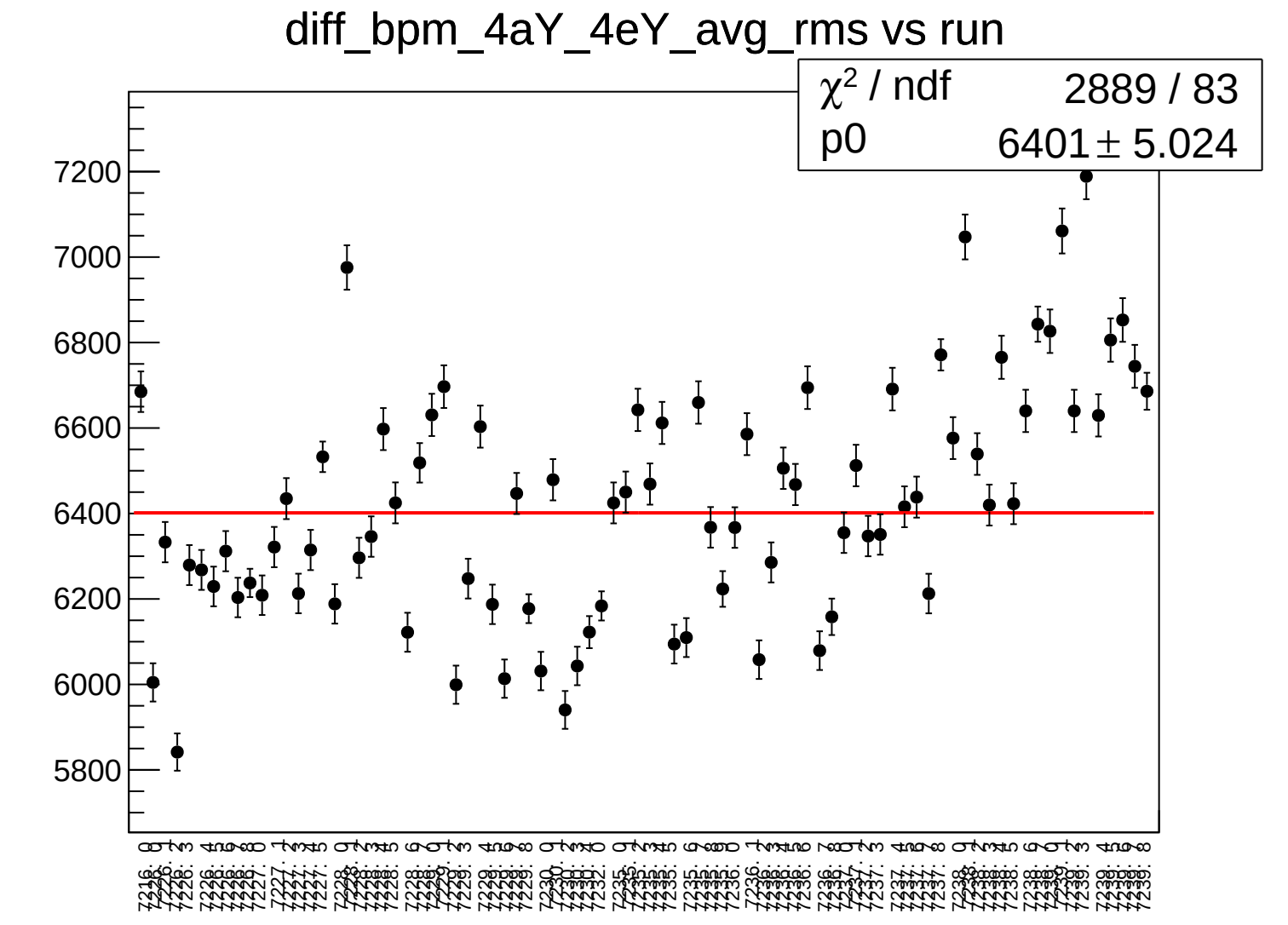

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 82.37 / 83
p0 1.168 ± 1.131
pull
Entries 84
Mean 133.1
Std Dev 0

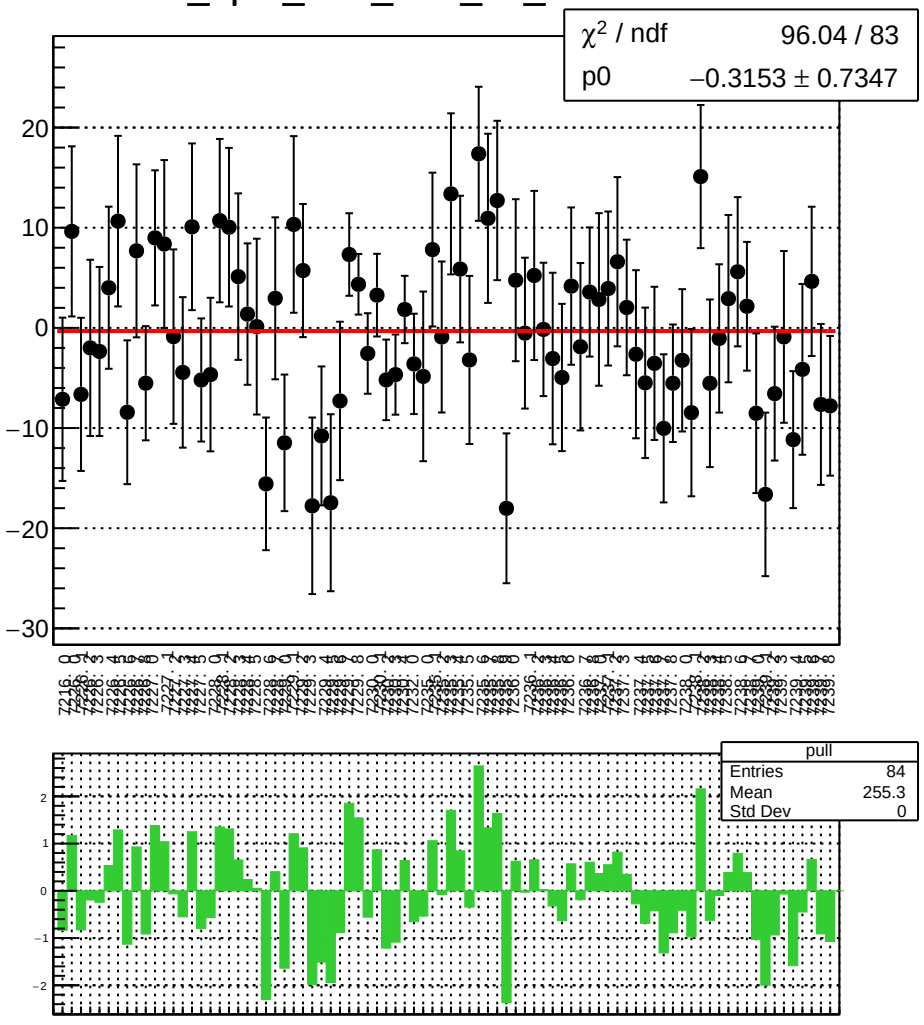

pull1D
Entries 84
Mean 0.0149
Std Dev 0.9902

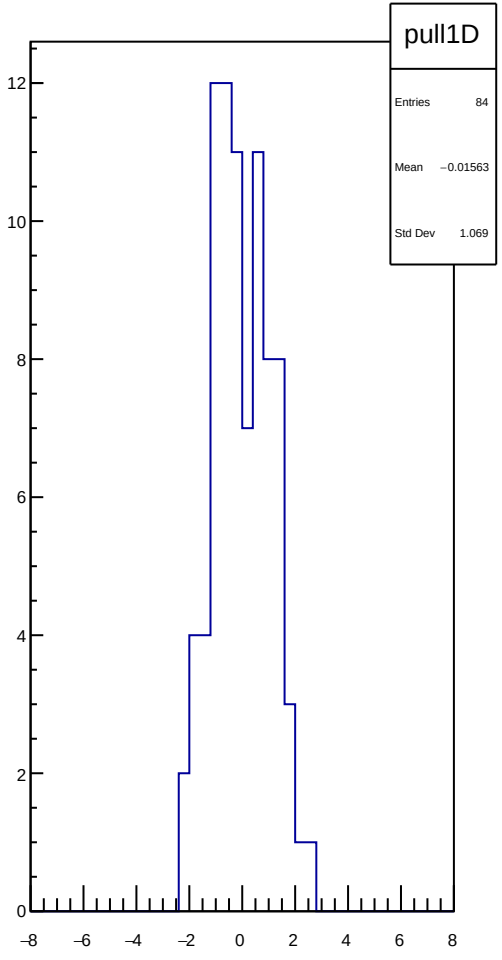

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 112.6 / 83
p0 1020 ± 0.7997
1050
1040
1030
1020
1010
1000
990

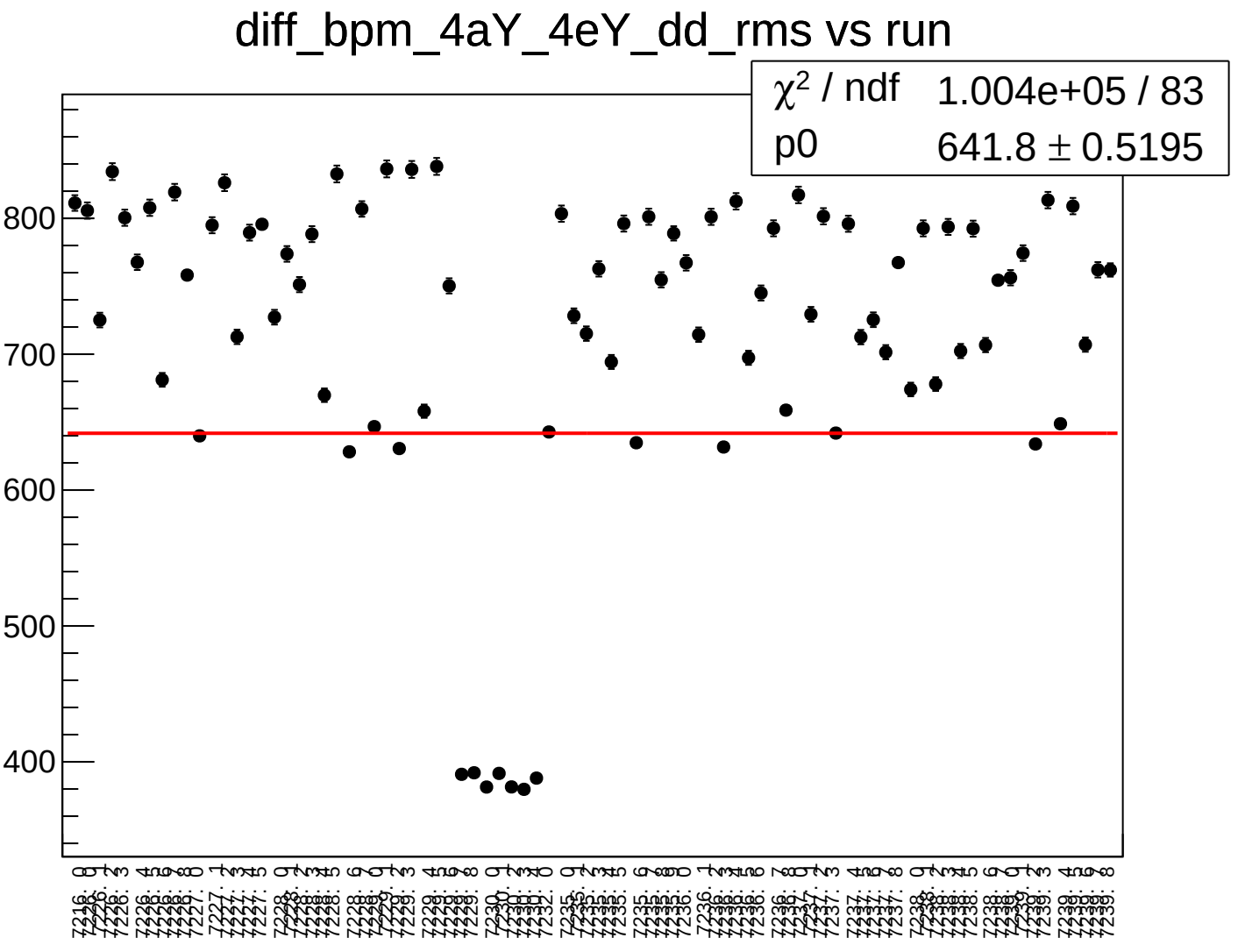

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 64.45 / 83
p0 −5.053 ± 7.105
200
100
0
−100
−200
pull
Entries 84
Mean −251.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

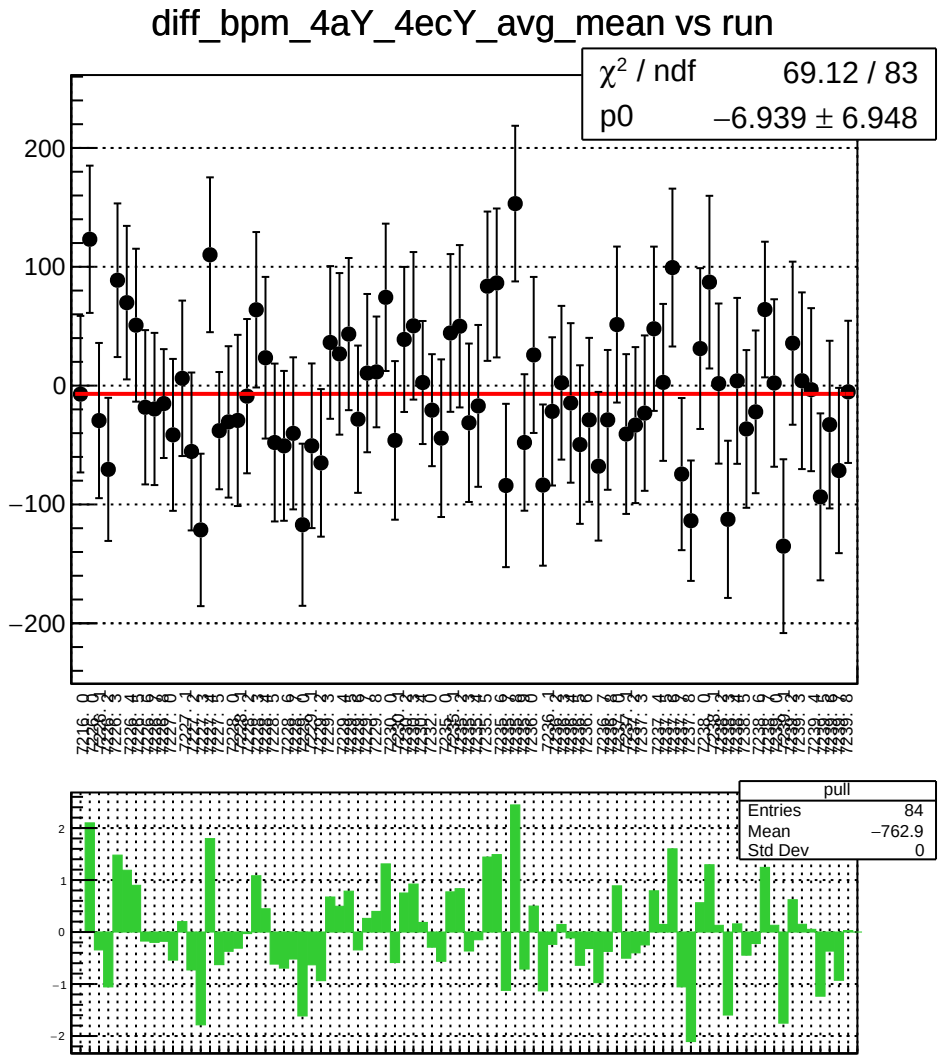

pull1D
Entries 84
Mean 0.006045
Std Dev 0.8759
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

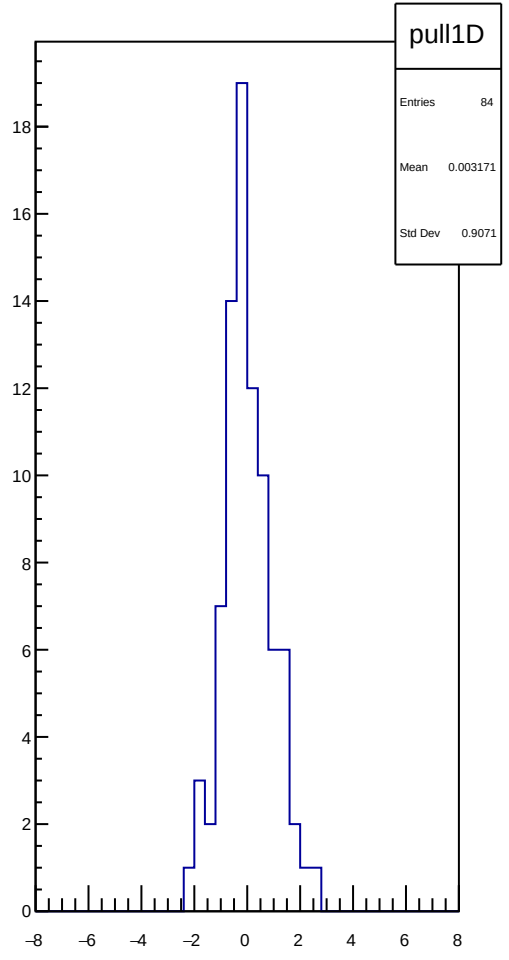

diff_bpm_4aY_4eY_avg_rms vs run
χ^2 / ndf 2889 / 83
p0 6401 ± 5.024
7200
7000
6800
6600
6400
6200
6000
5800

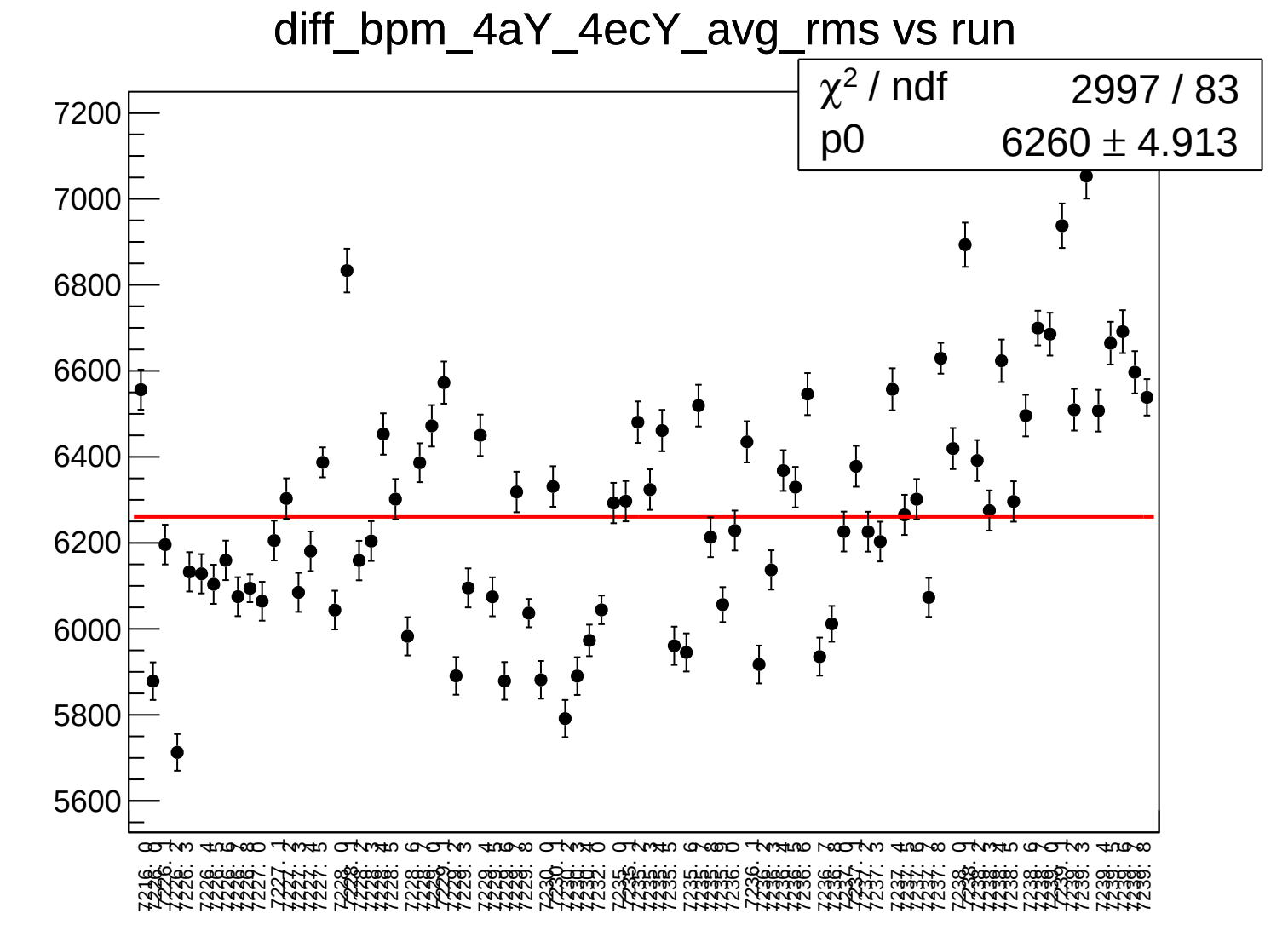

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 96.04 / 83
p0 −0.3153 ± 0.7347
pull
Entries 84
Mean 255.3
Std Dev 0

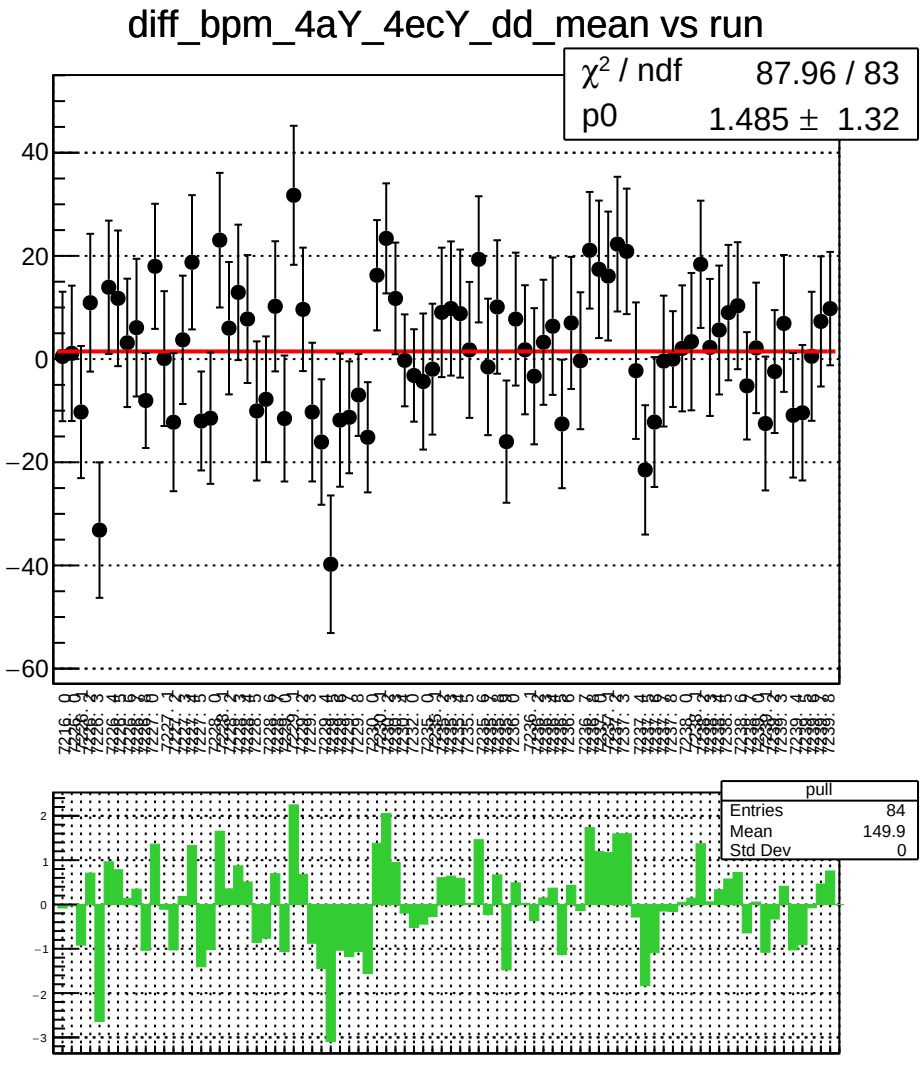

pull1D
Entries 84
Mean −0.01563
Std Dev 1.069

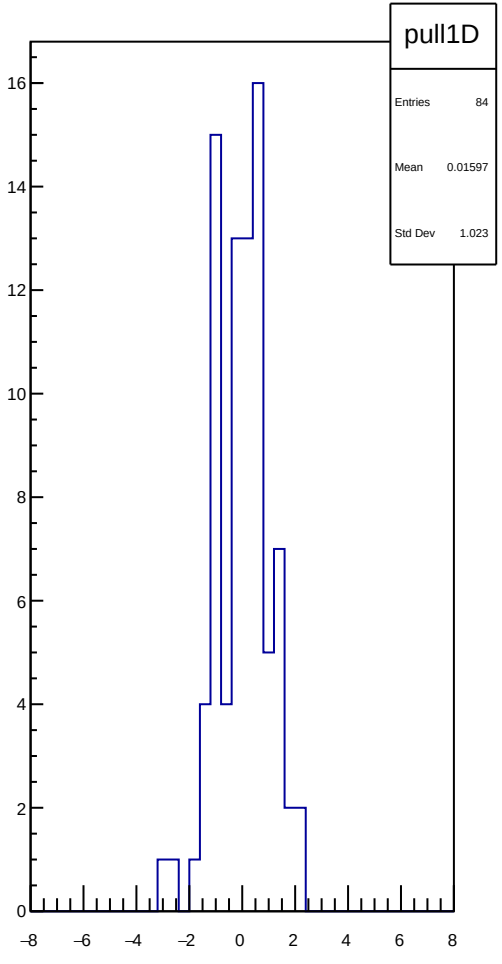

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 1.004e+05 / 83
p0 641.8 ± 0.5195
800
700
600
500
400

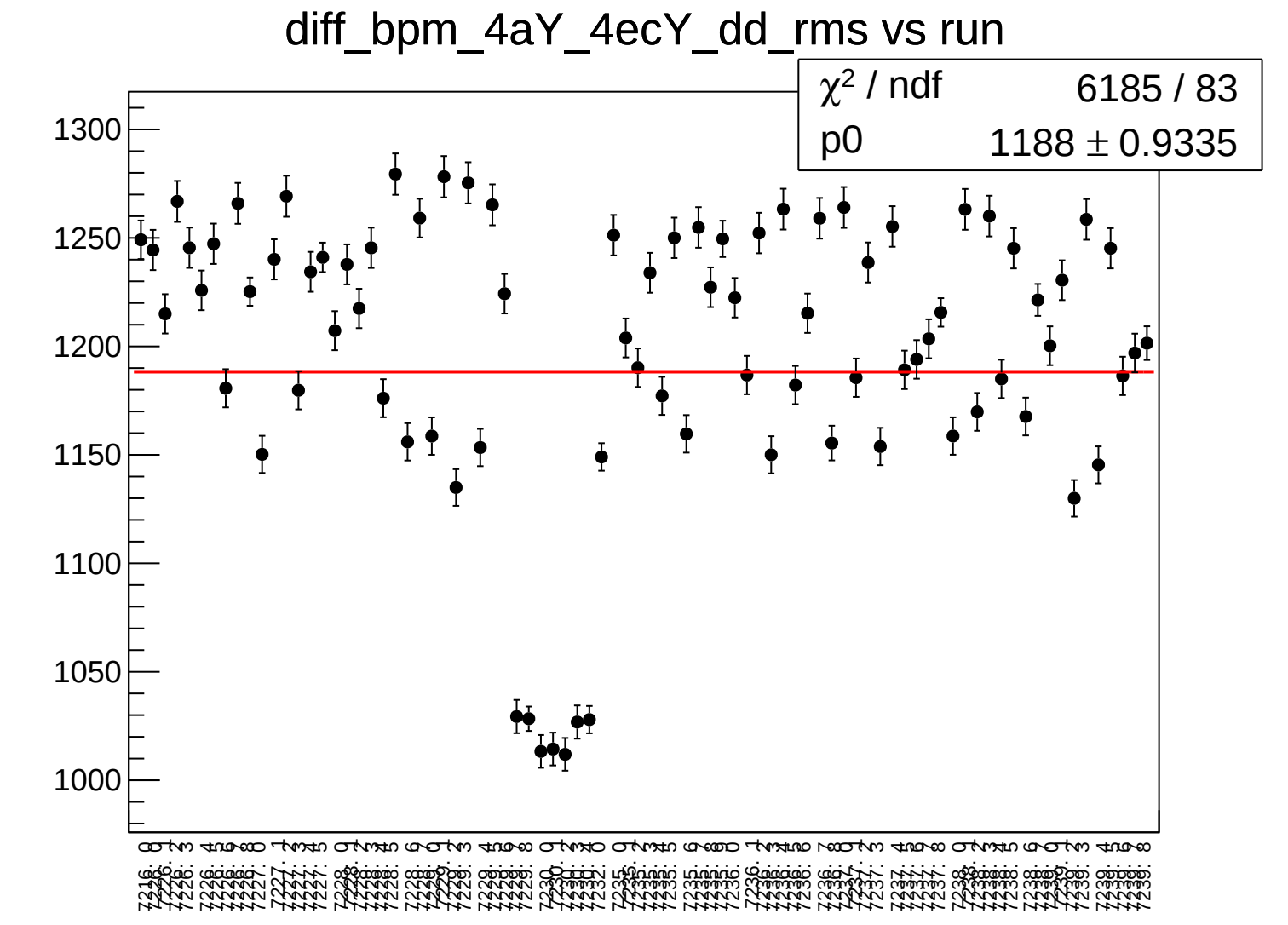

diff_bpm_4aY_4ecY_avg_mean vs run
χ² / ndf 69.12 / 83
p0 −6.939 ± 6.948
200
100
0
−100
−200
pull
Entries 84
Mean −762.9
Std Dev 0
2
1
0
−1
−2

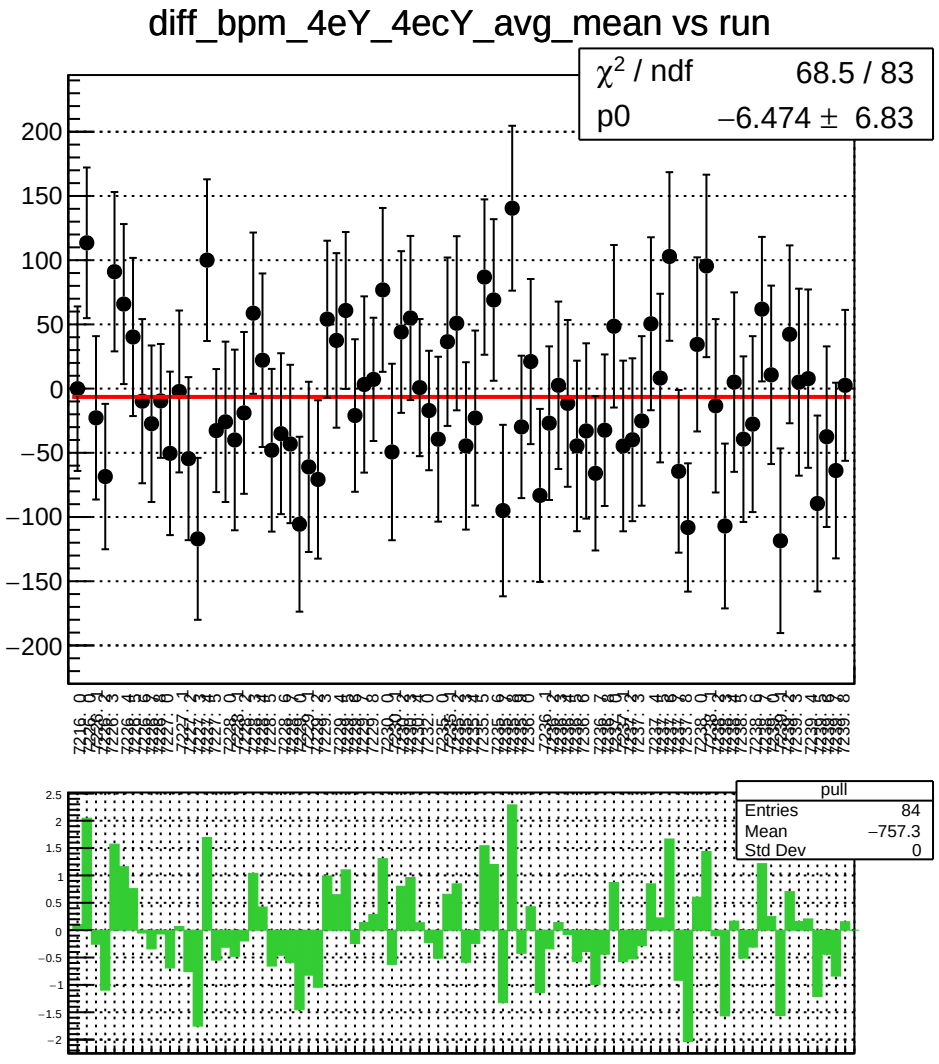

pull1D
Entries 84
Mean 0.003171
Std Dev 0.9071
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

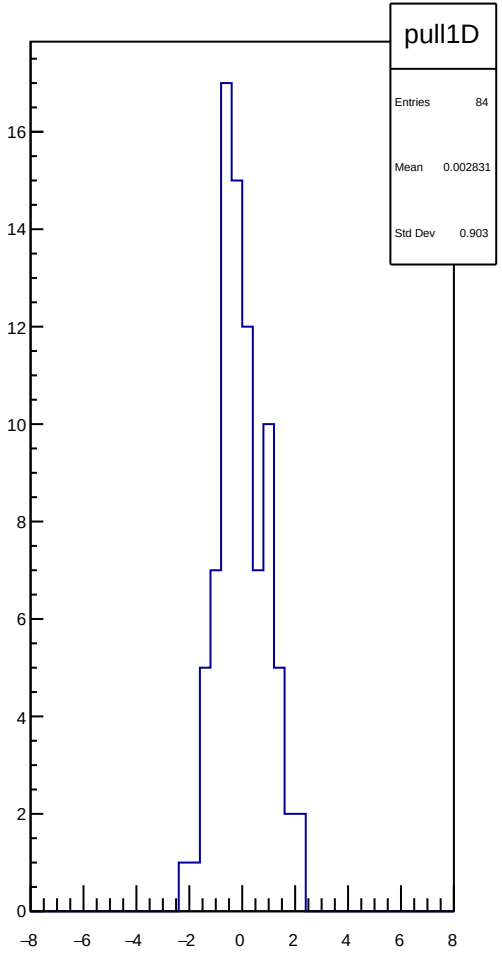

diff_bpm_4aY_4ecY_avg_rms vs run
χ^2 / ndf 2997 / 83
p0 6260 ± 4.913
7200
7000
6800
6600
6400
6200
6000
5800
5600

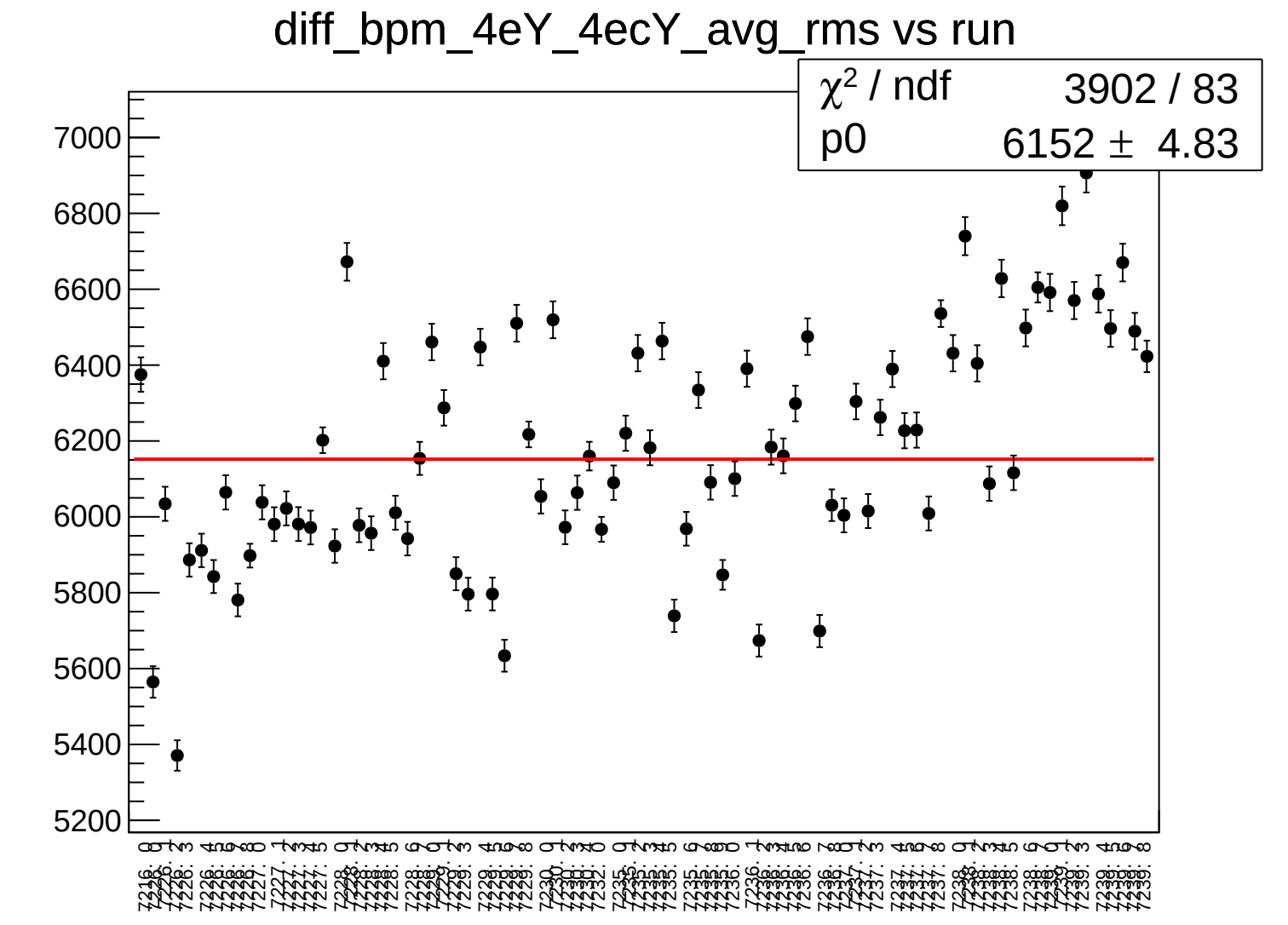

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 87.96 / 83
p0 1.485 ± 1.32
pull
Entries 84
Mean 149.9
Std Dev 0

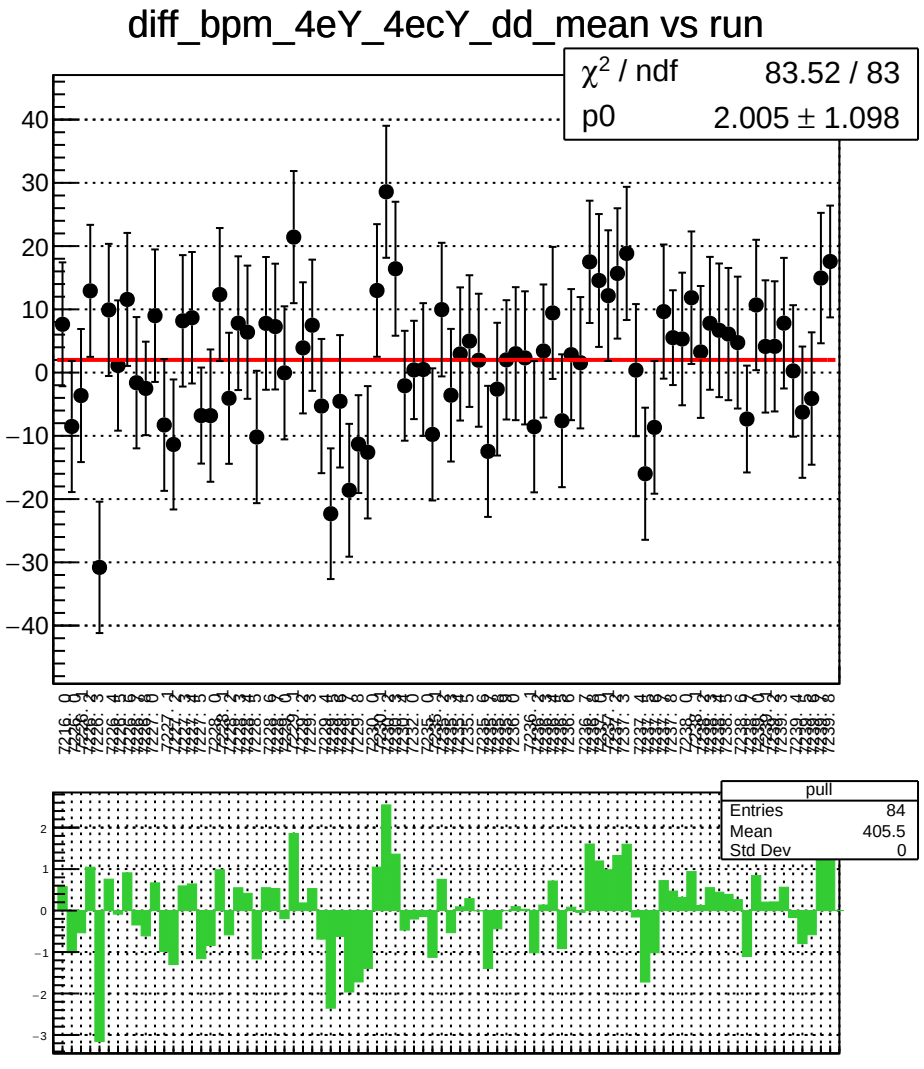

pull1D
Entries 84
Mean 0.01597
Std Dev 1.023

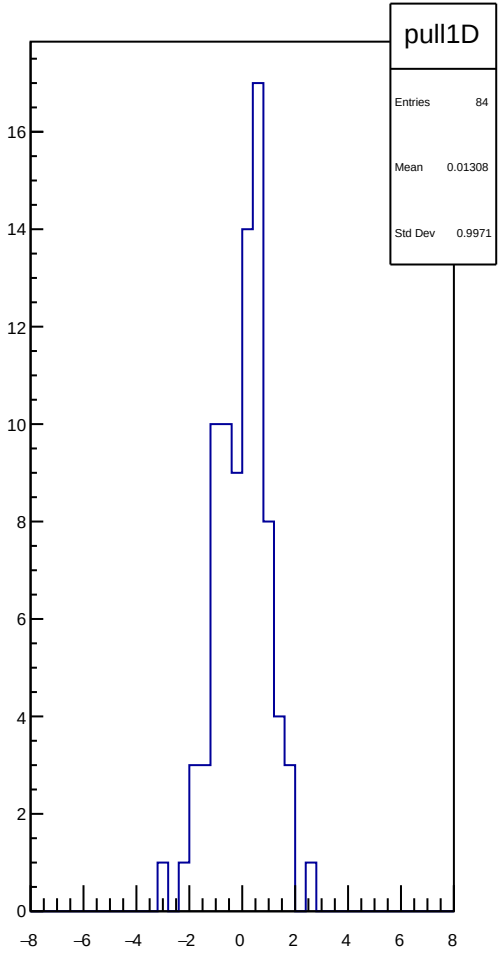

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 6185 / 83
p0 1188 ± 0.9335
1300
1250
1200
1150
1100
1050
1000

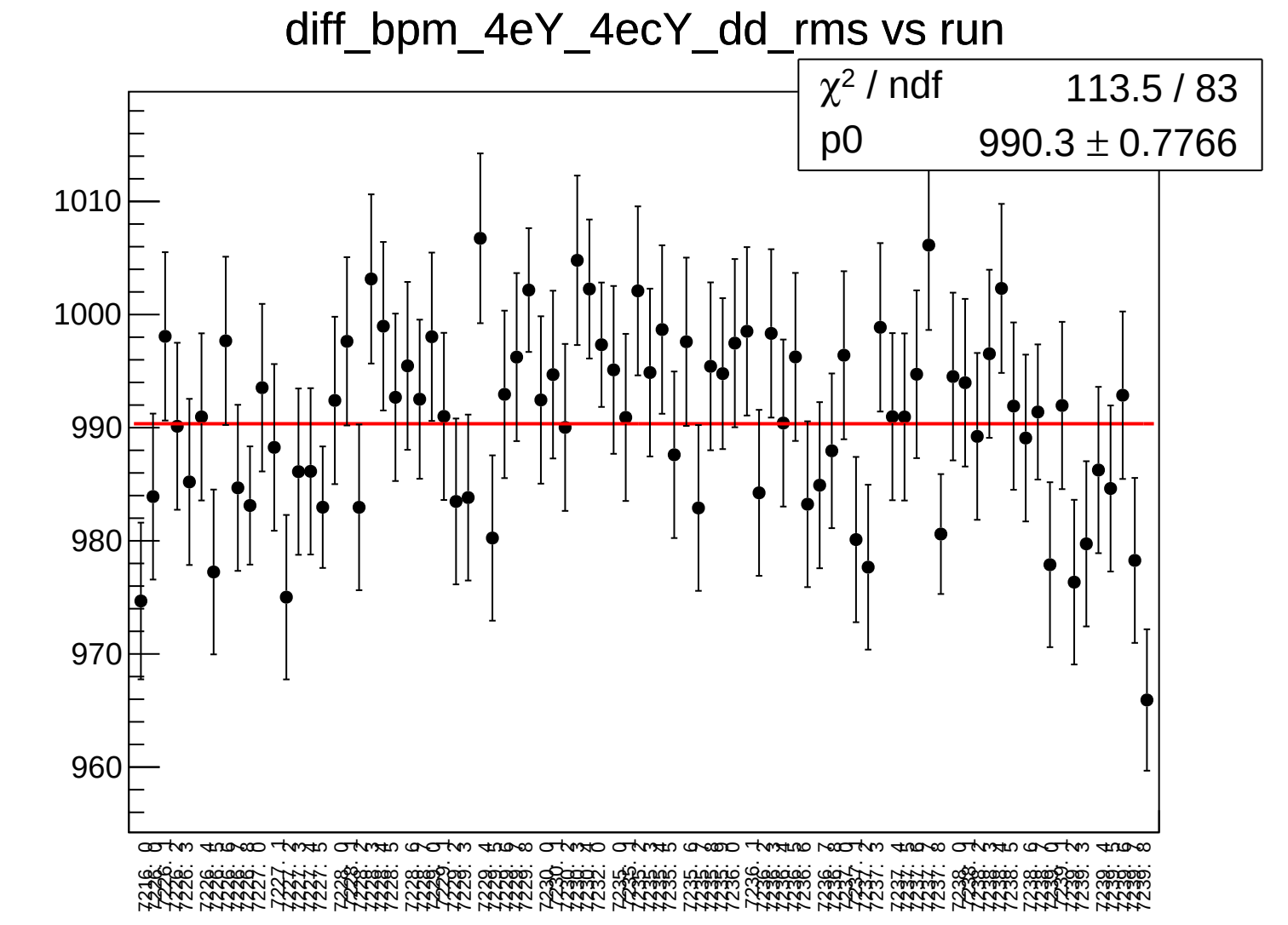

diff_bpm_4eY_4ecY_avg_mean vs run
χ² / ndf 68.5 / 83
p0 −6.474 ± 6.83
pull
Entries 84
Mean −757.3
Std Dev 0

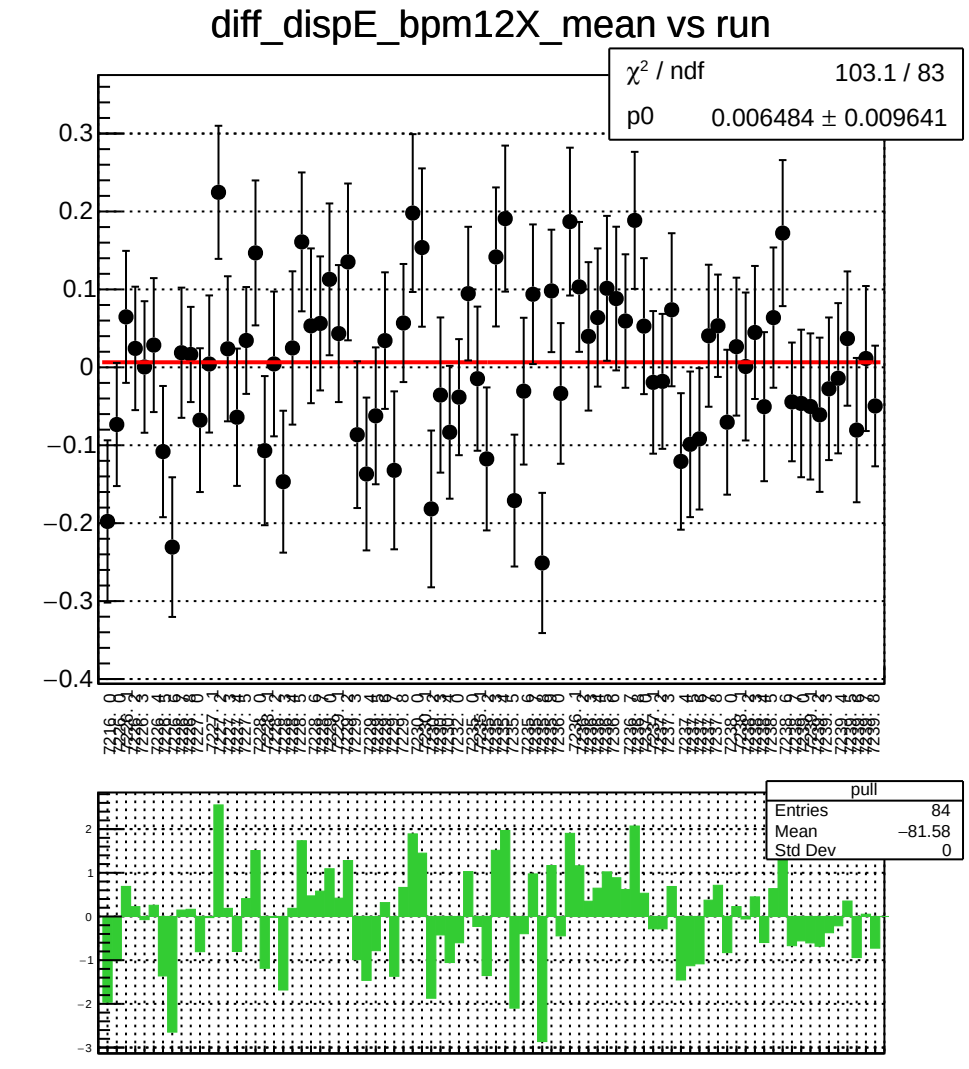

pull1D
Entries 84
Mean 0.002831
Std Dev 0.903

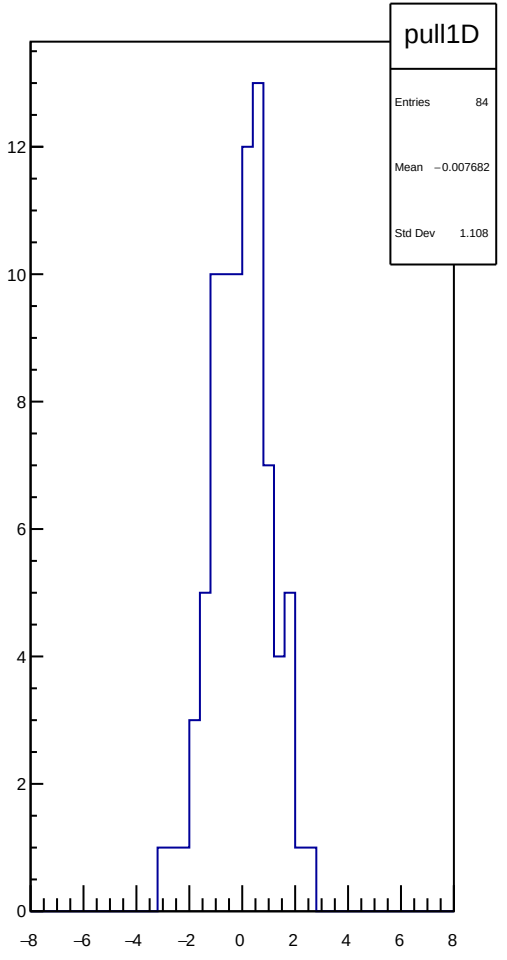

diff_bpm_4eY_4ecY_avg_rms vs run
χ² / ndf 3902 / 83
p0 6152 ± 4.83
7000
6800
6600
6400
6200
6000
5800
5600
5400
5200

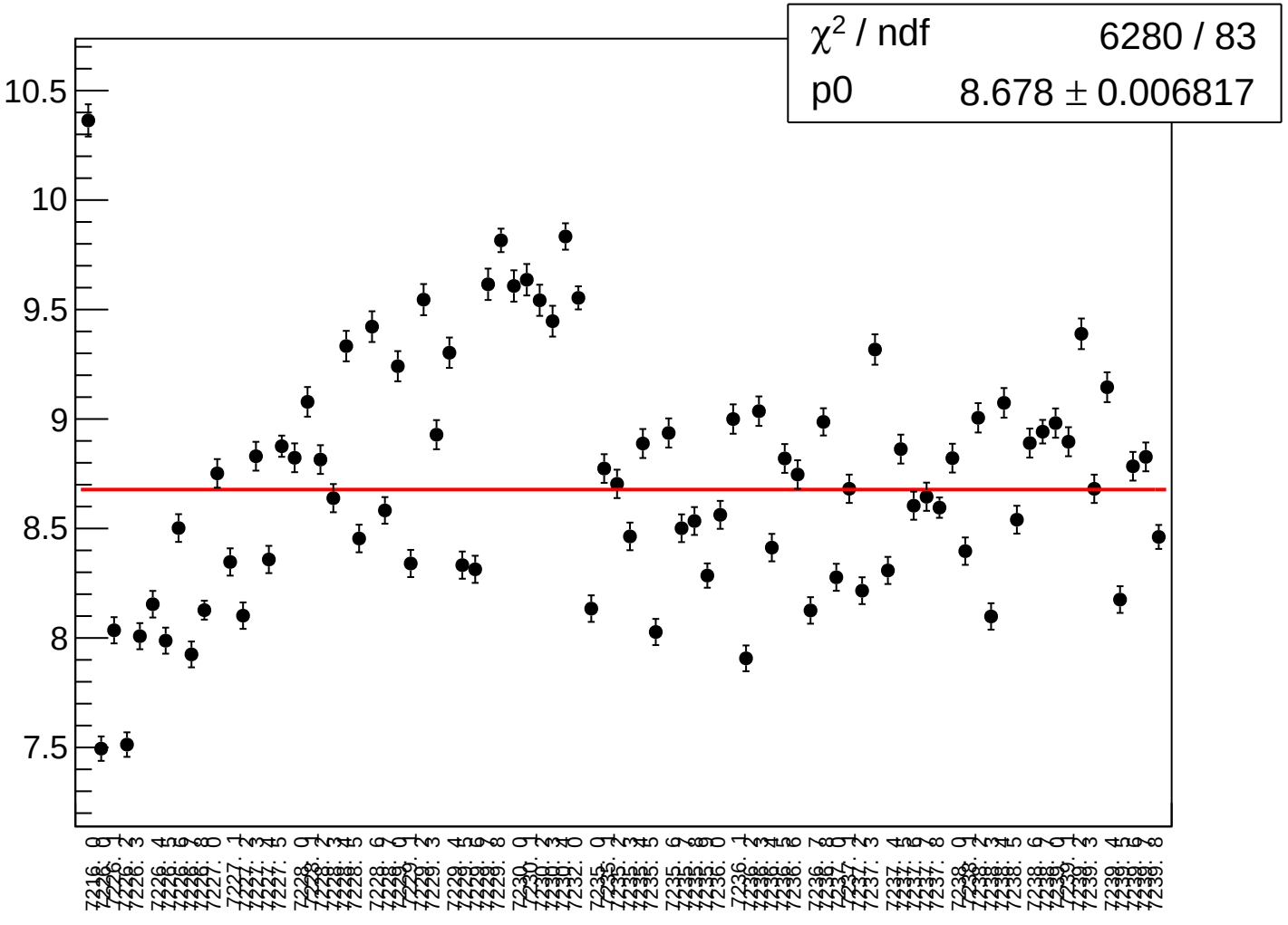

diff_bpm_4eY_4ecY_dd_mean vs run
χ^2 / ndf 83.52 / 83
p0 2.005 ± 1.098
pull
Entries 84
Mean 405.5
Std Dev 0

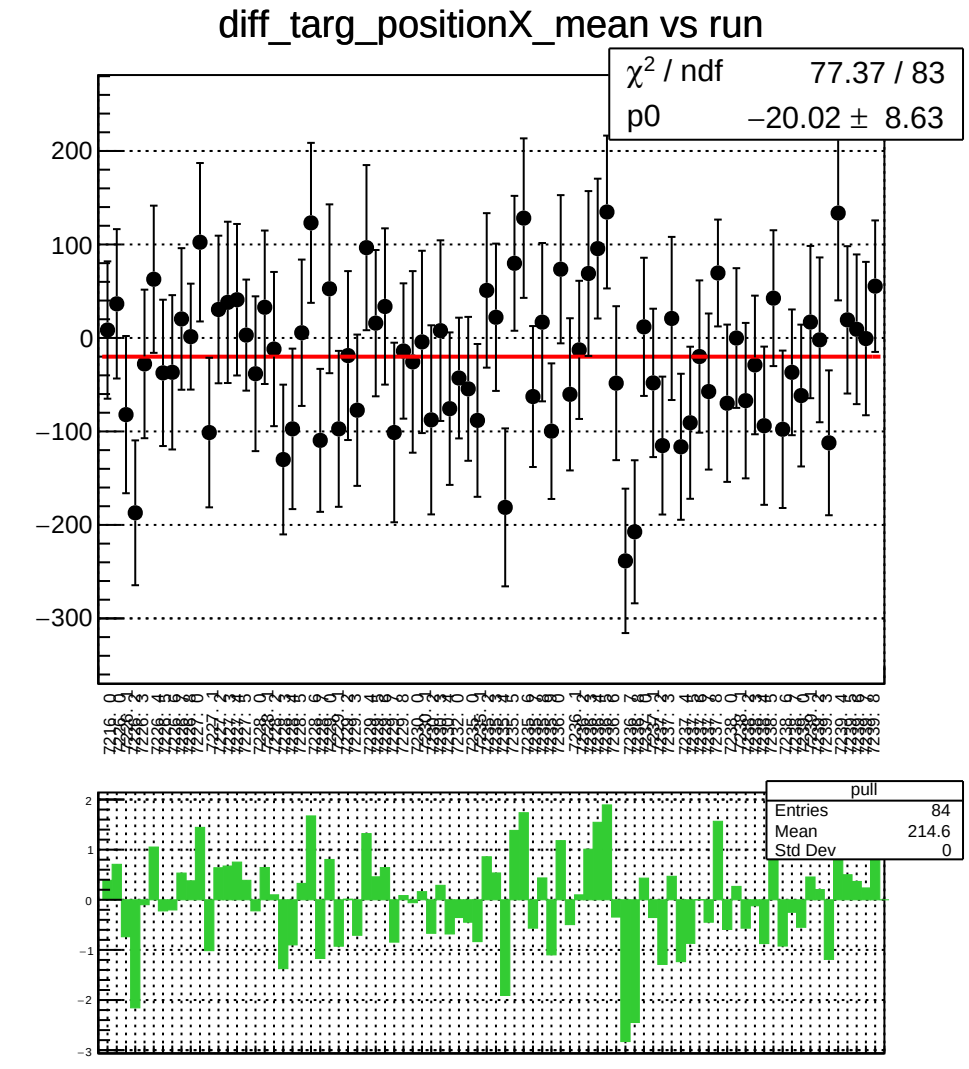

pull1D
Entries 84
Mean 0.01308
Std Dev 0.9971

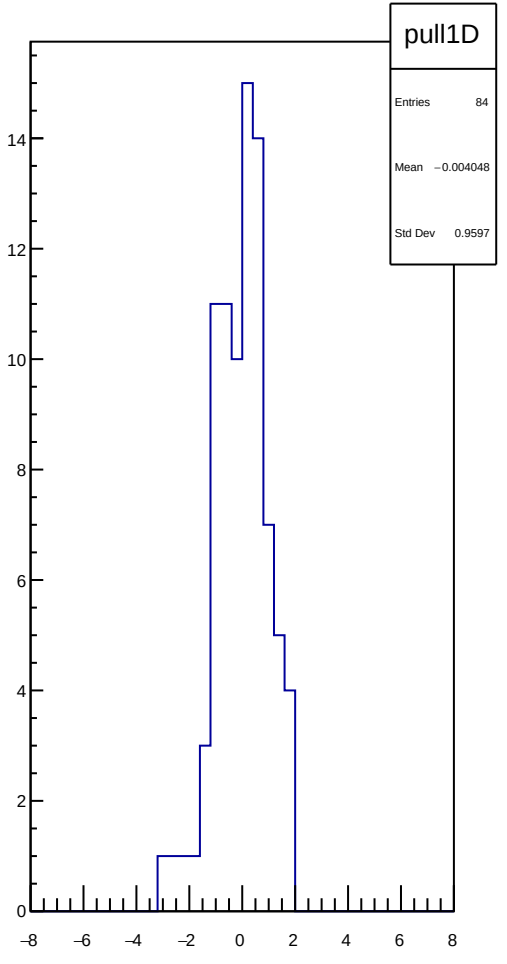

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 113.5 / 83
p0 990.3 ± 0.7766
1010
1000
990
980
970
960

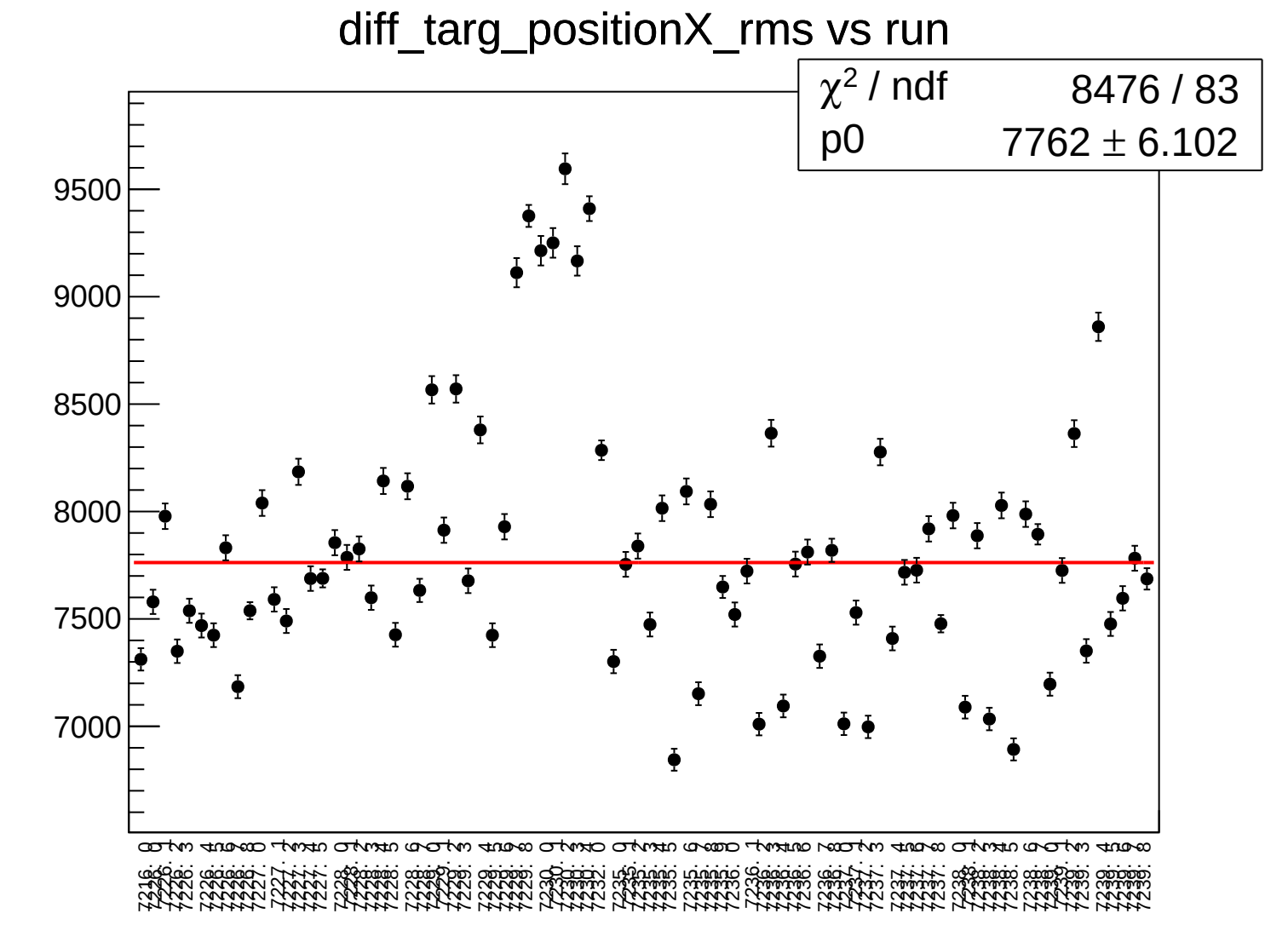

diff_dispE_bpm12X_mean vs run
χ² / ndf 103.1 / 83
p0 0.006484 ± 0.009641
pull
Entries 84
Mean −81.58
Std Dev 0

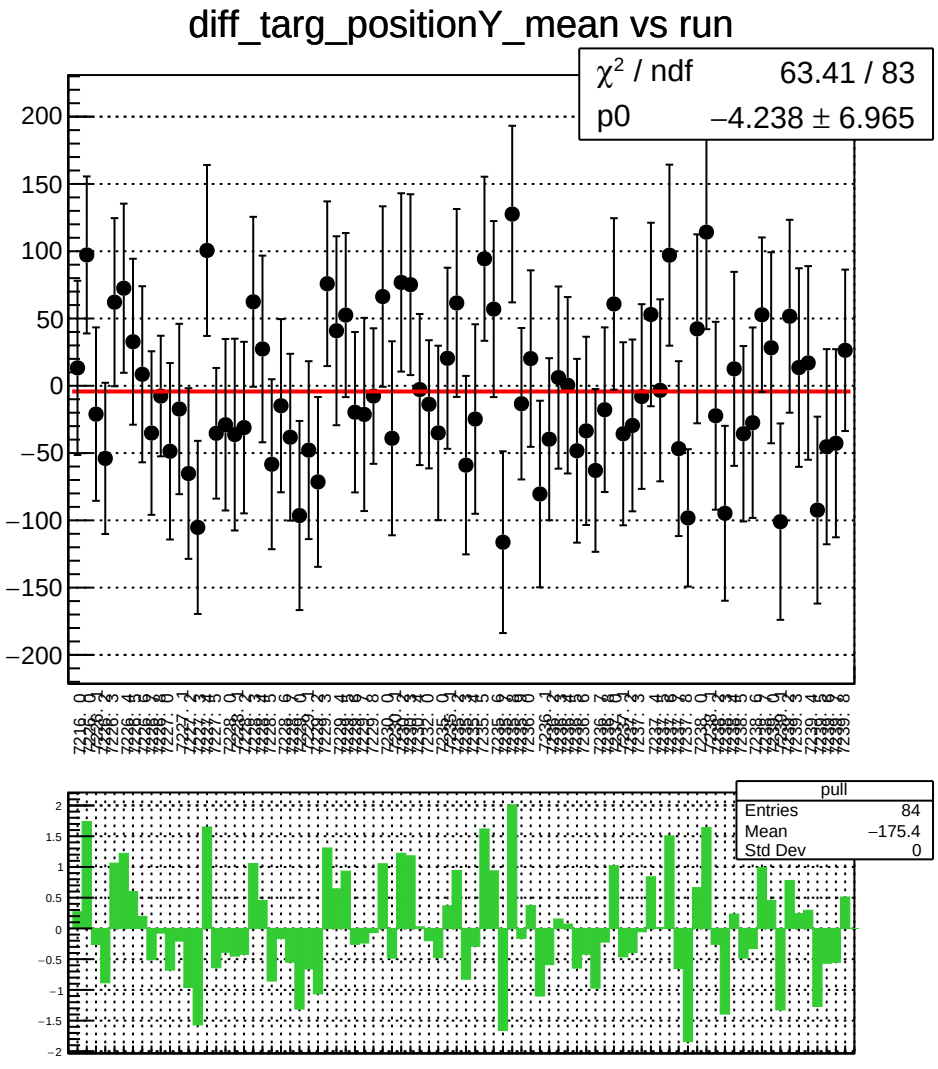

pull1D
Entries 84
Mean −0.007682
Std Dev 1.108

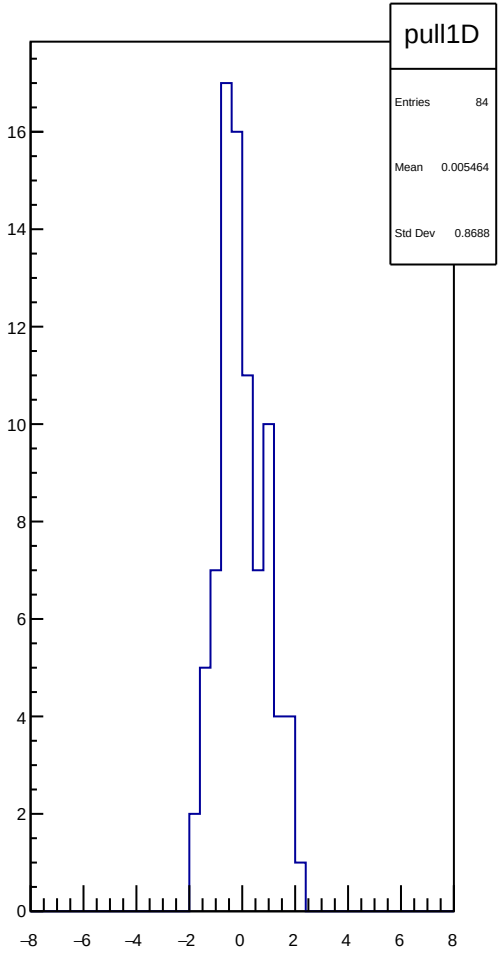

diff_dispE_bpm12X_rms vs run
χ^2 / ndf 6280 / 83
p0 8.678 ± 0.006817
10.5
10
9.5
9
8.5
8
7.5

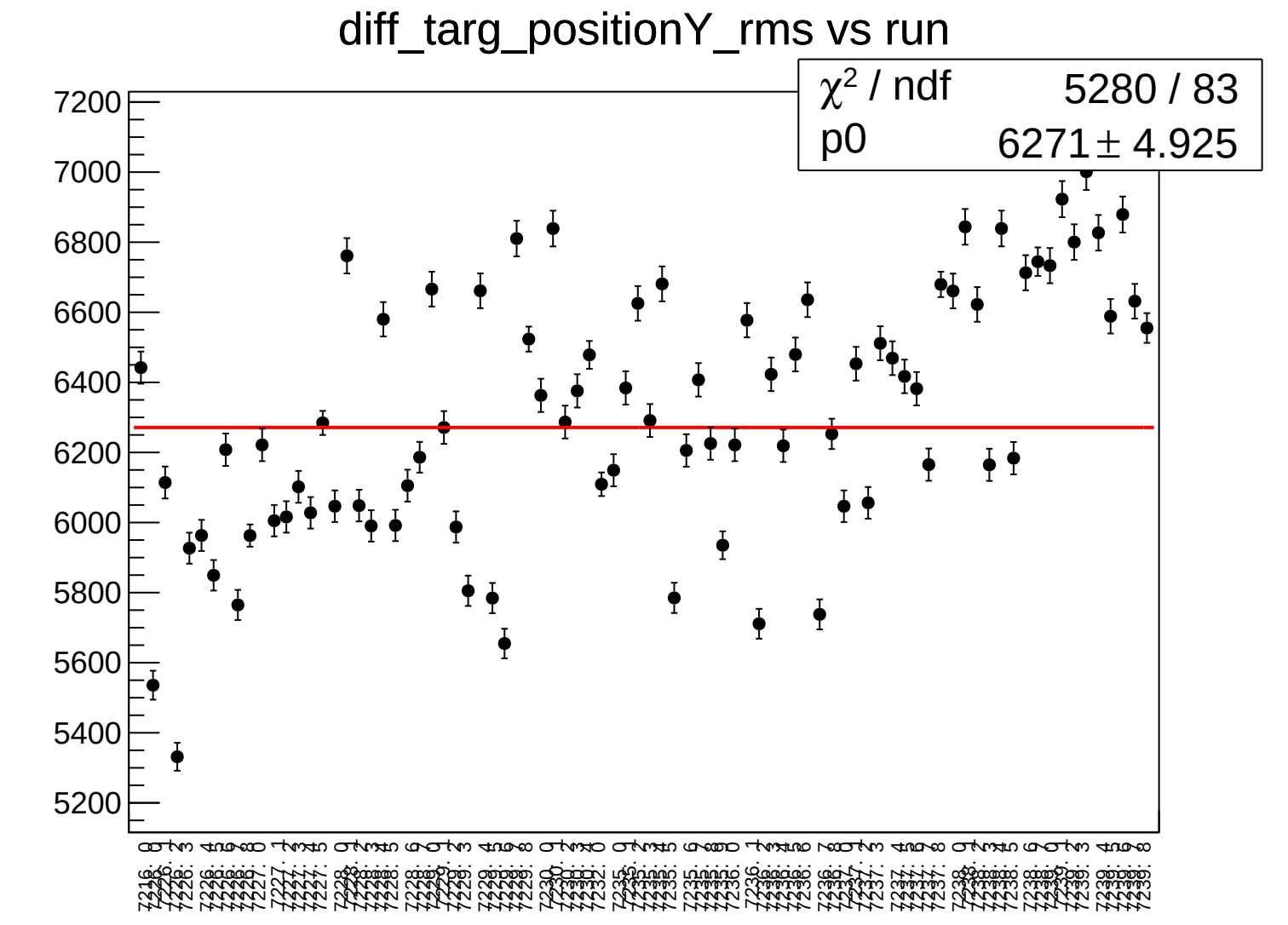

diff_targ_positionX_mean vs run
χ^2 / ndf 77.37 / 83
p0 −20.02 ± 8.63
200
100
0
−100
−200
−300
pull
Entries 84
Mean 214.6
Std Dev 0
2
1
0
−1
−2
−3

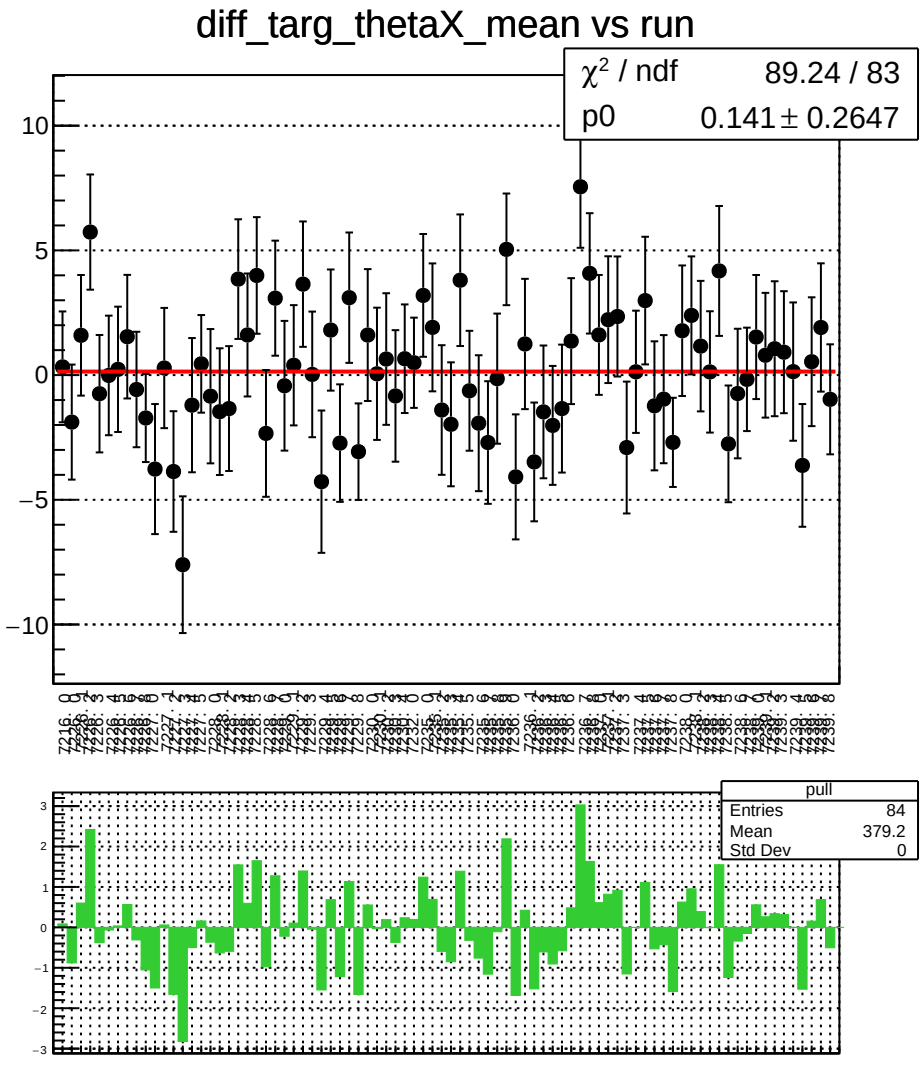

pull1D
Entries 84
Mean −0.004048
Std Dev 0.9597
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

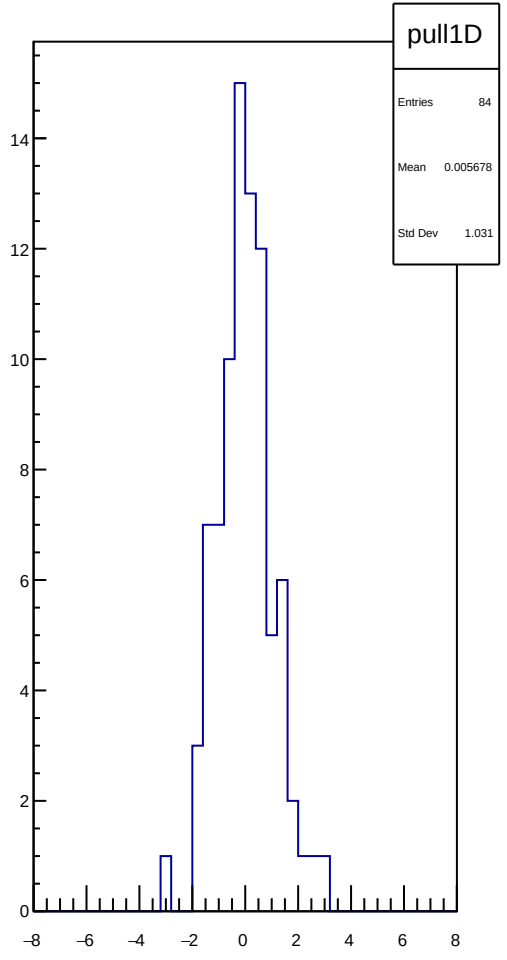

diff_targ_positionX_rms vs run
χ^2 / ndf 8476 / 83
p0 7762 ± 6.102
9500
9000
8500
8000
7500
7000

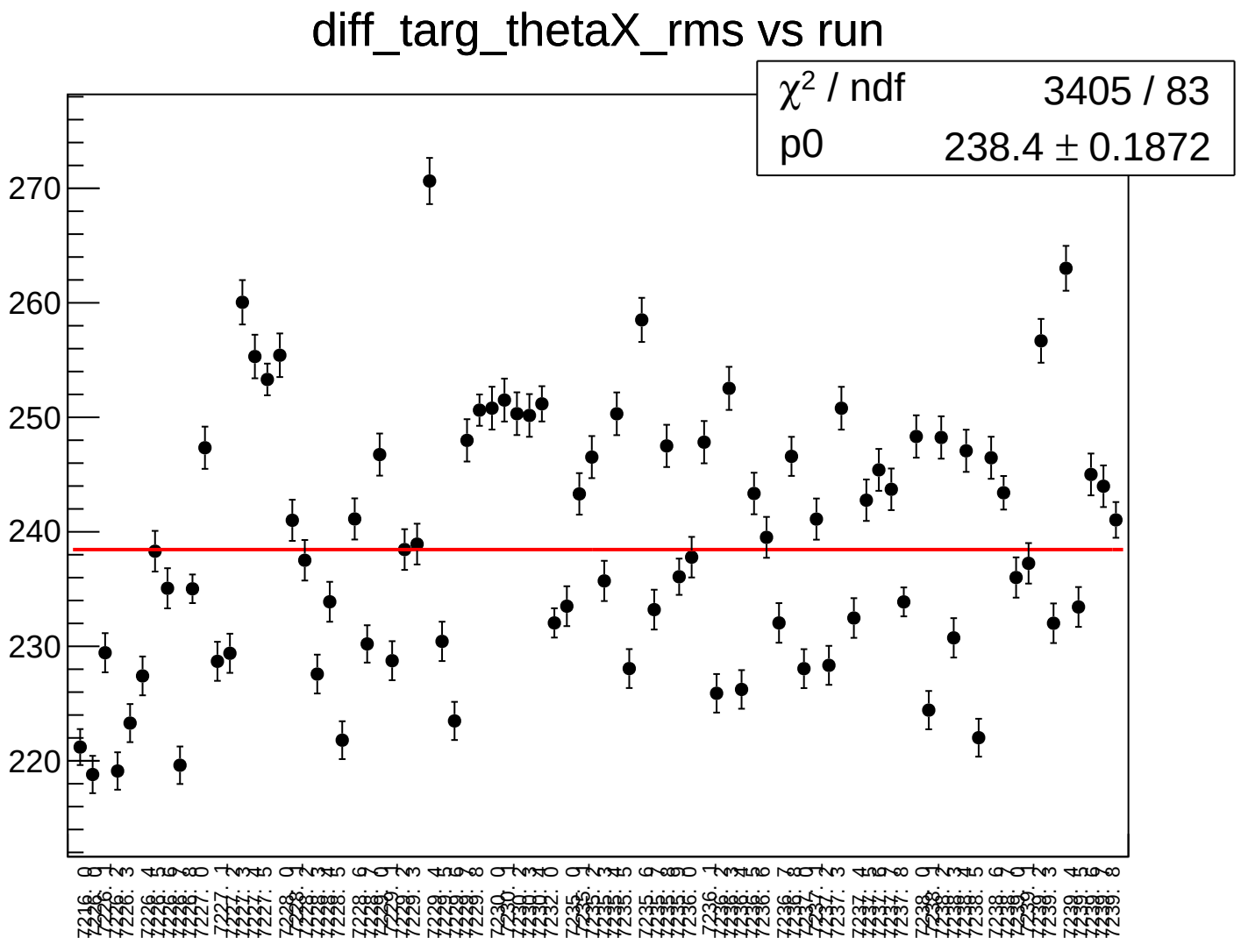

diff_targ_positionY_mean vs run
χ² / ndf 63.41 / 83
p0 −4.238 ± 6.965
pull
Entries 84
Mean −175.4
Std Dev 0

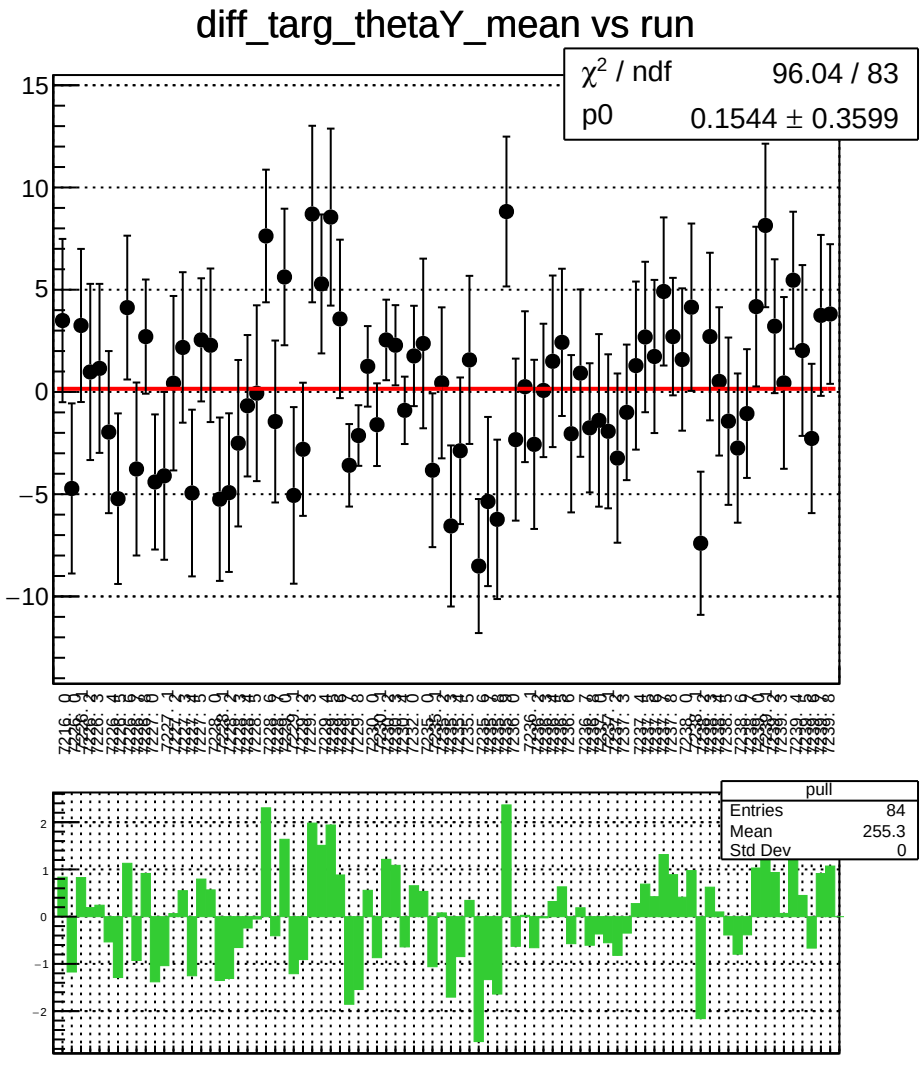

pull1D
Entries 84
Mean 0.005464
Std Dev 0.8688

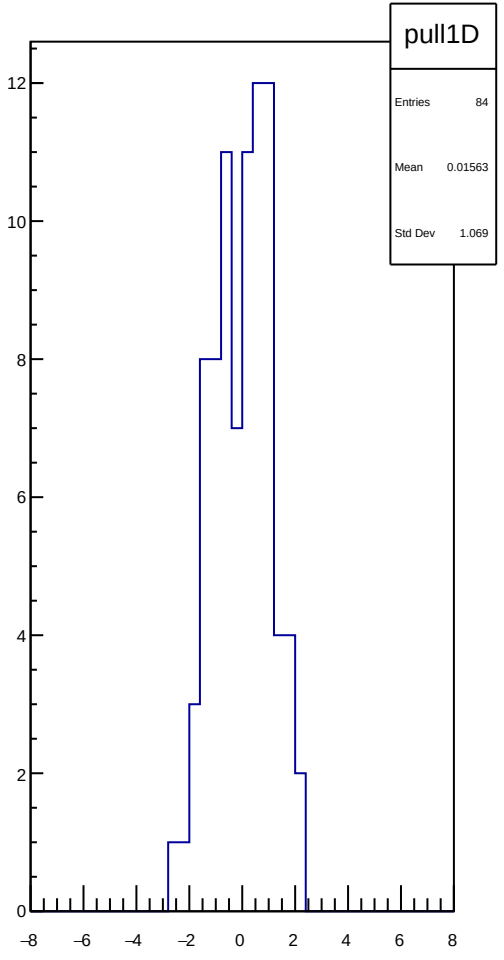

diff_targ_positionY_rms vs run
χ^2 / ndf 5280 / 83
p0 6271 ± 4.925
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400
5200

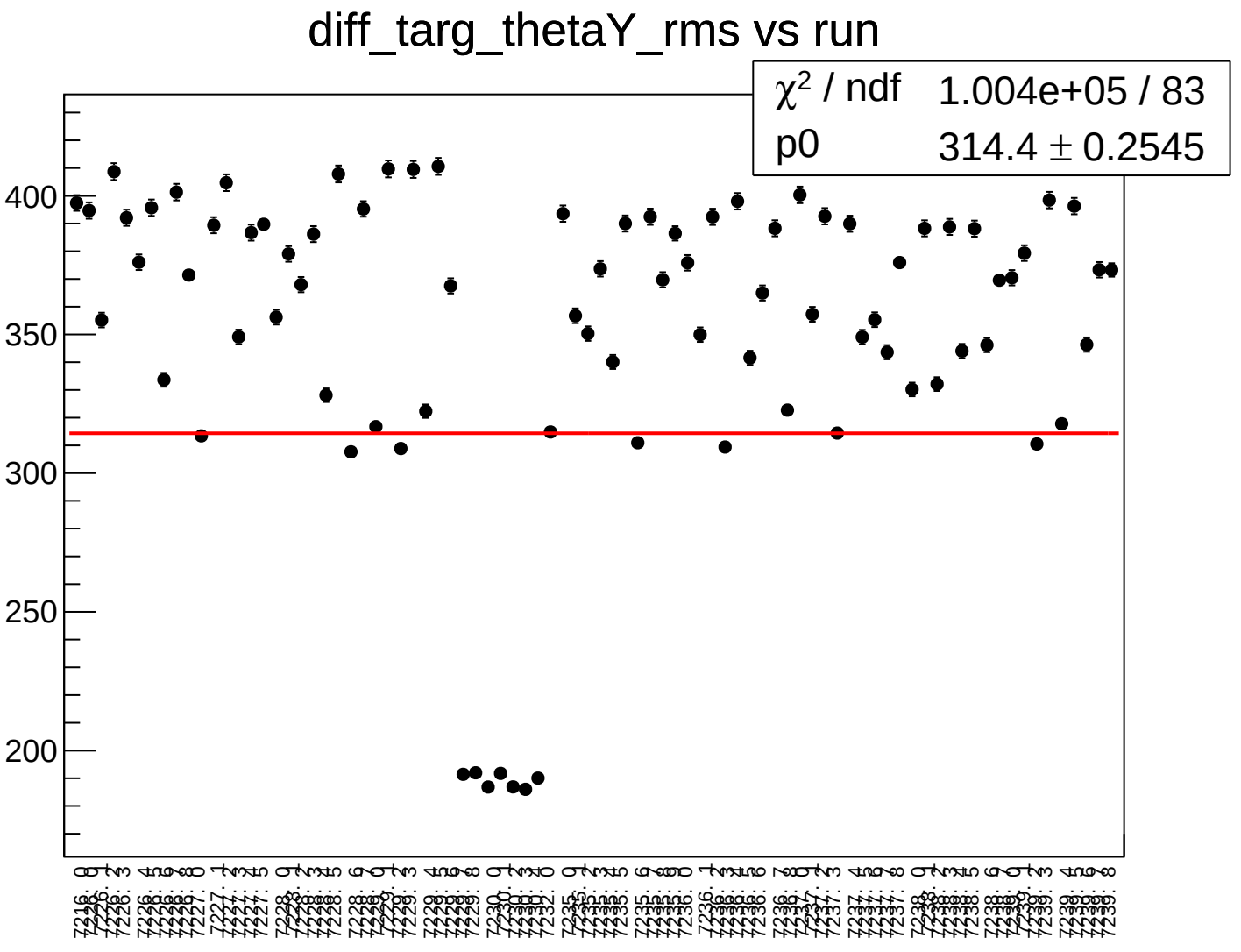

diff_targ_thetaX_mean vs run
χ² / ndf 89.24 / 83
p0 0.141 ± 0.2647
pull
Entries 84
Mean 379.2
Std Dev 0

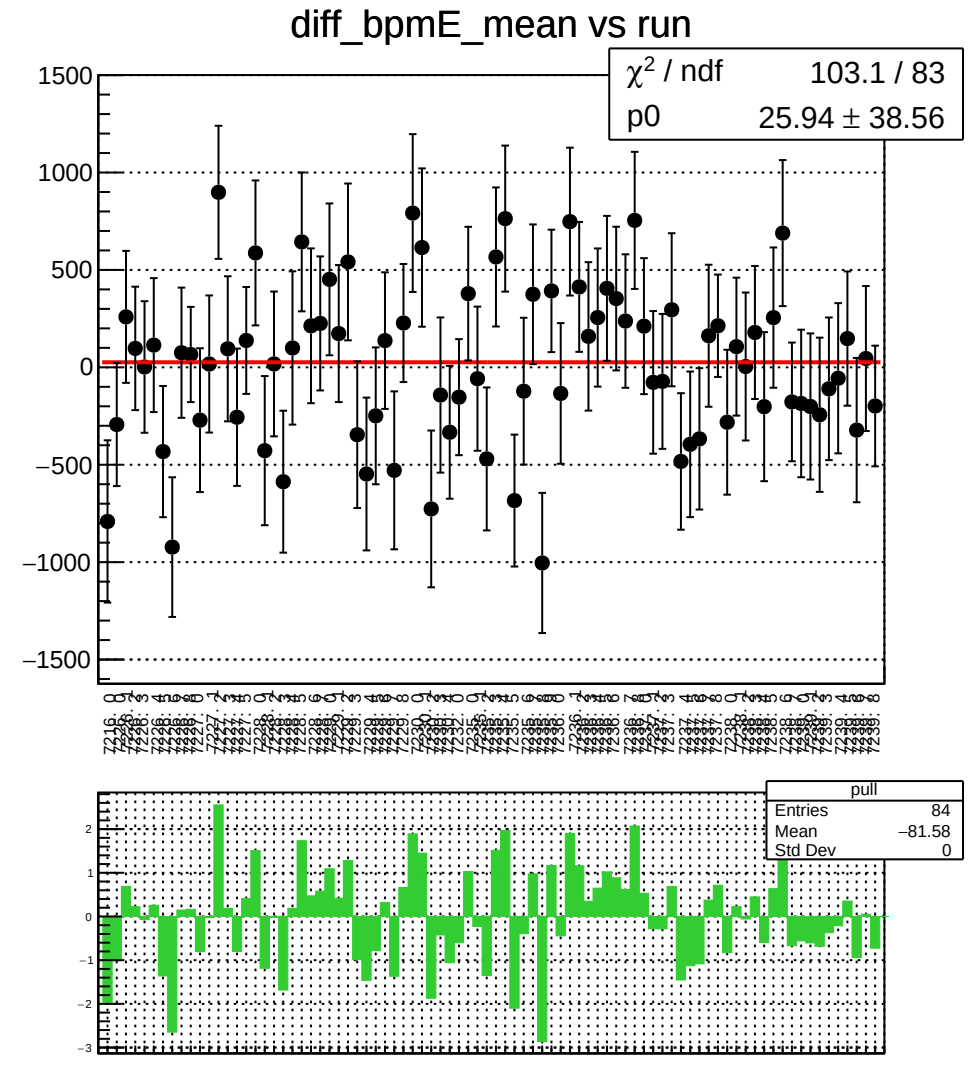

pull1D
Entries 84
Mean 0.005678
Std Dev 1.031

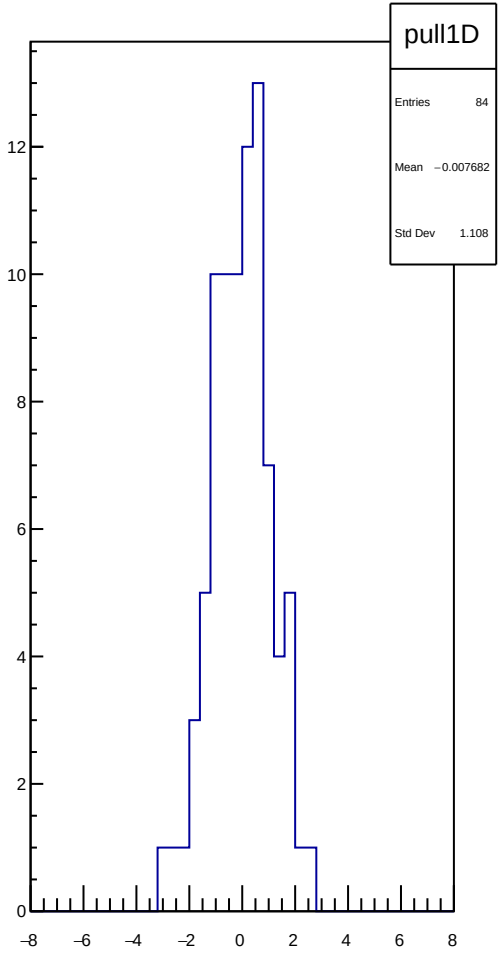

diff_targ_thetaX_rms vs run
χ^2 / ndf 3405 / 83
p0 238.4 ± 0.1872
270
260
250
240
230
220

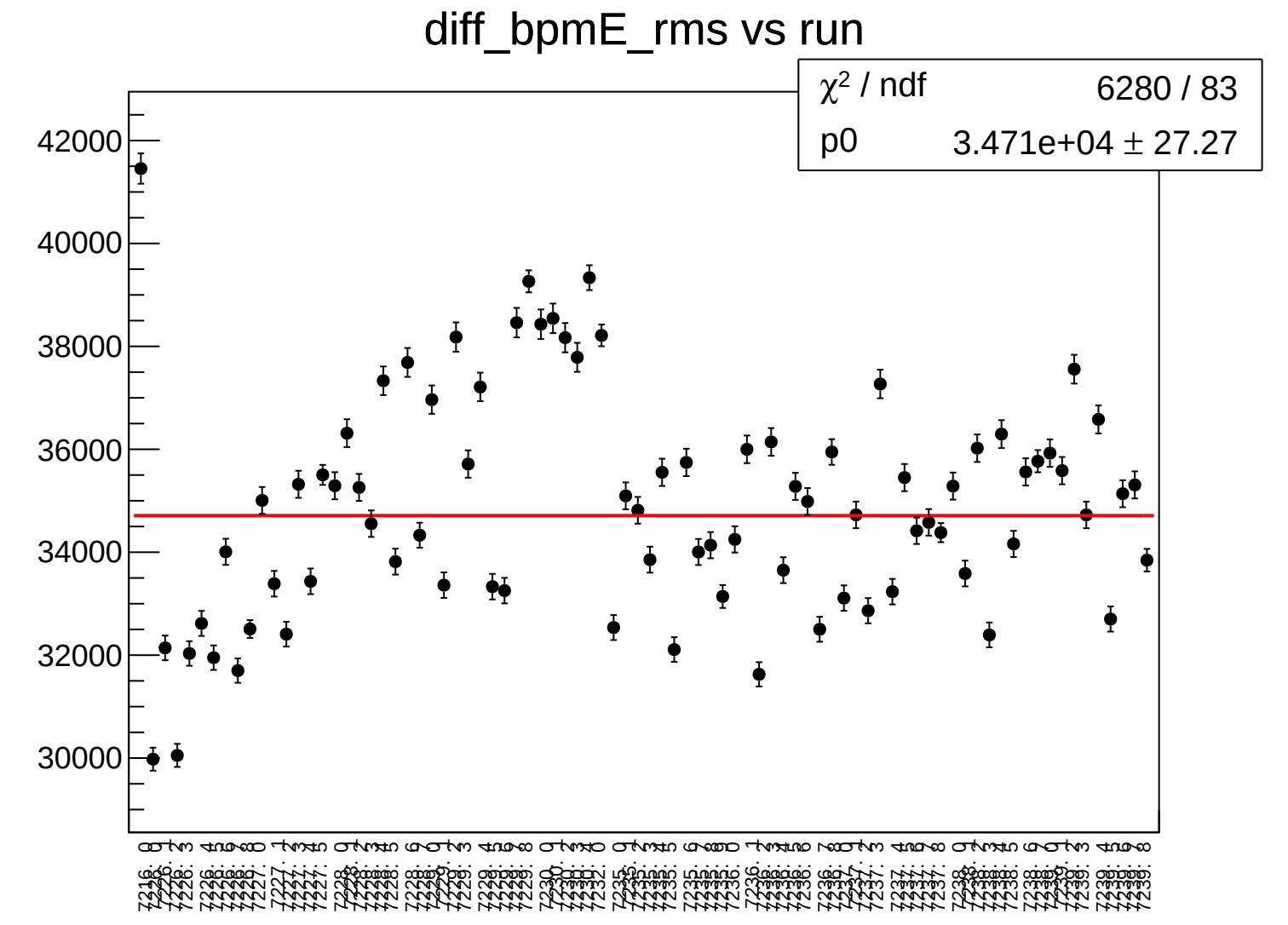

diff_targ_thetaY_mean vs run
χ² / ndf 96.04 / 83
p0 0.1544 ± 0.3599
pull
Entries 84
Mean 255.3
Std Dev 0

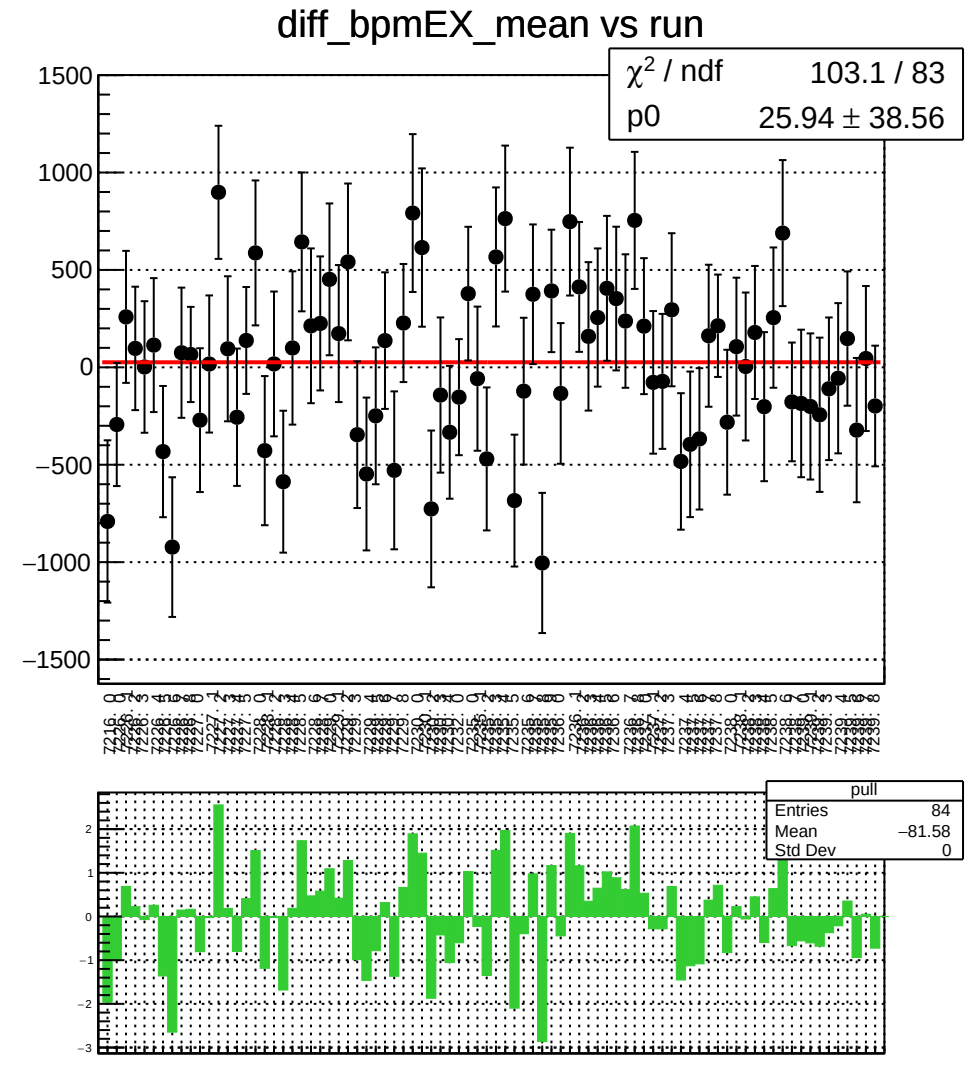

pull1D
Entries 84
Mean 0.01563
Std Dev 1.069

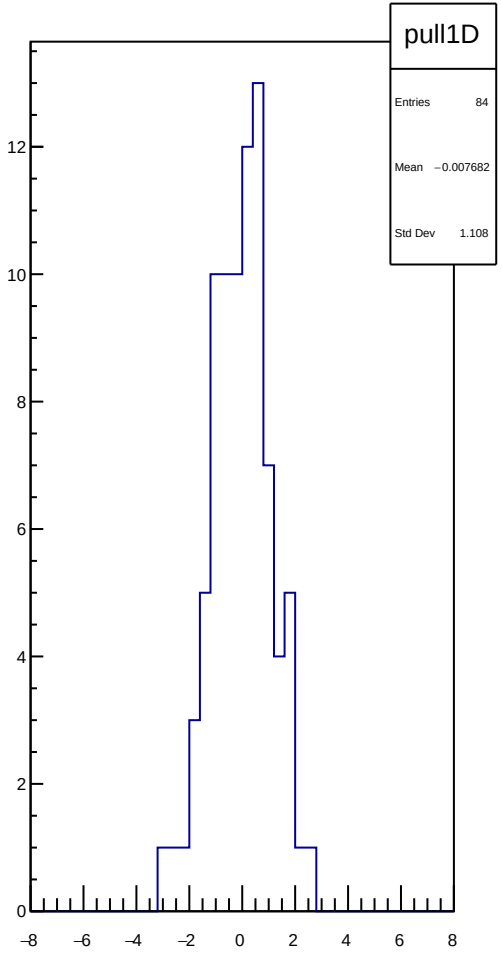

diff_targ_thetaY_rms vs run
χ² / ndf 1.004e+05 / 83
p0 314.4 ± 0.2545
400
350
300
250
200

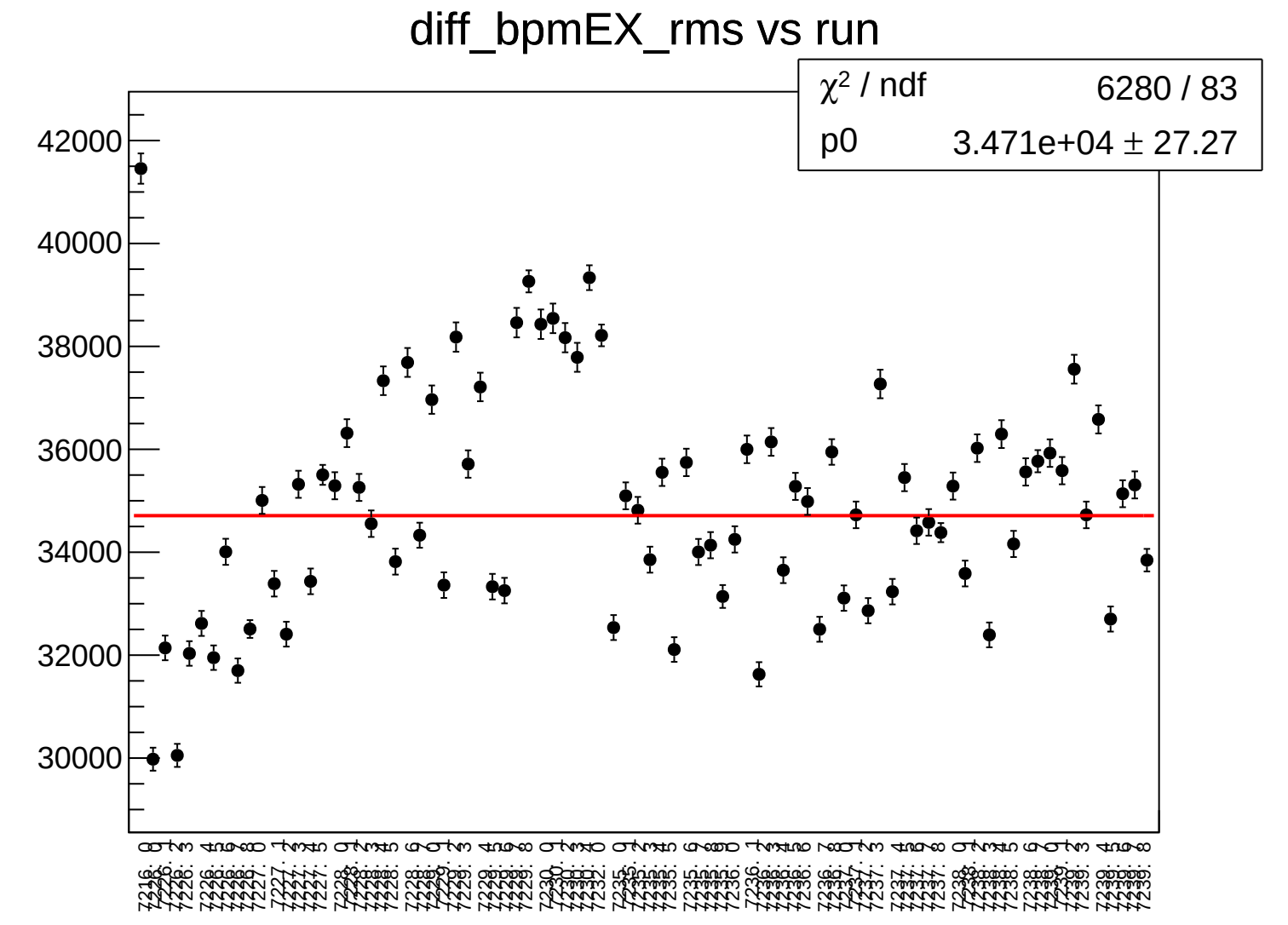

diff_bpmE_mean vs run
χ² / ndf 103.1 / 83
p0 25.94 ± 38.56
pull
Entries 84
Mean −81.58
Std Dev 0

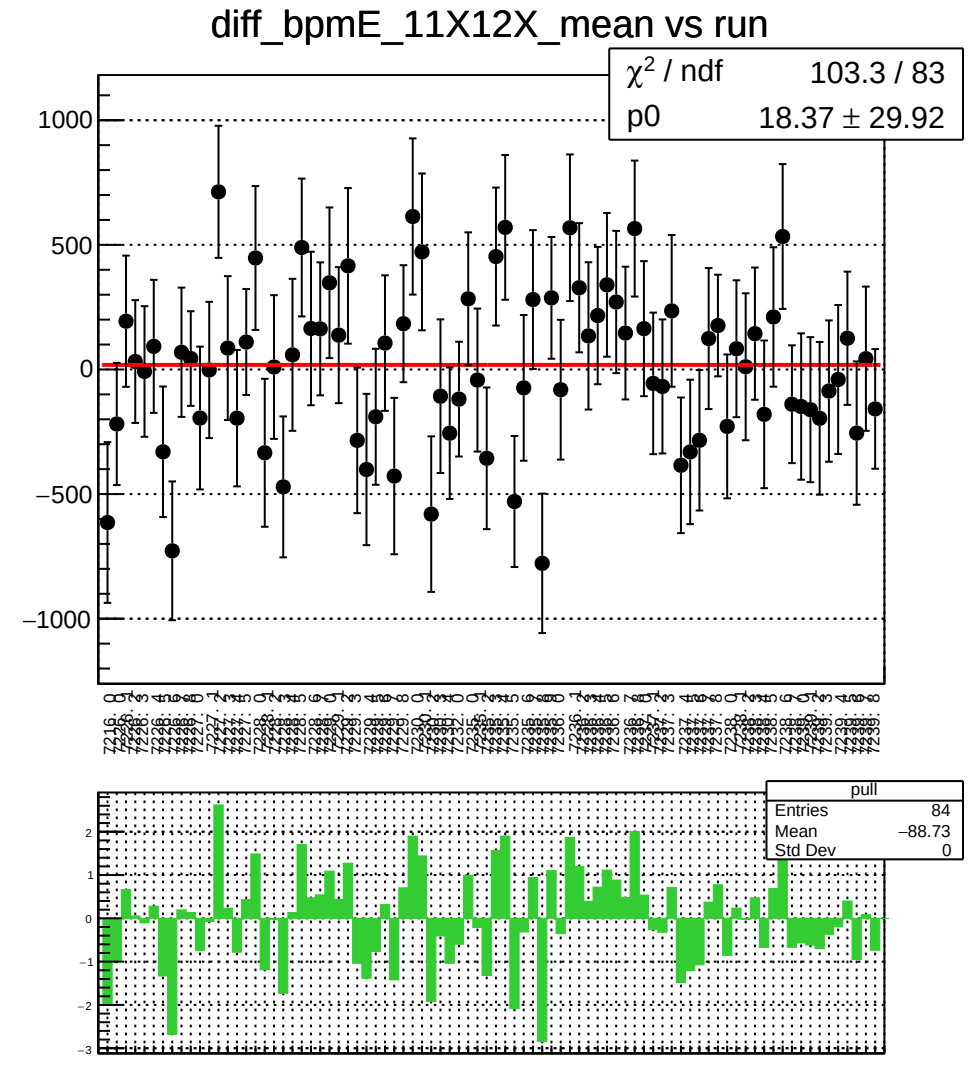

pull1D
Entries 84
Mean −0.007682
Std Dev 1.108

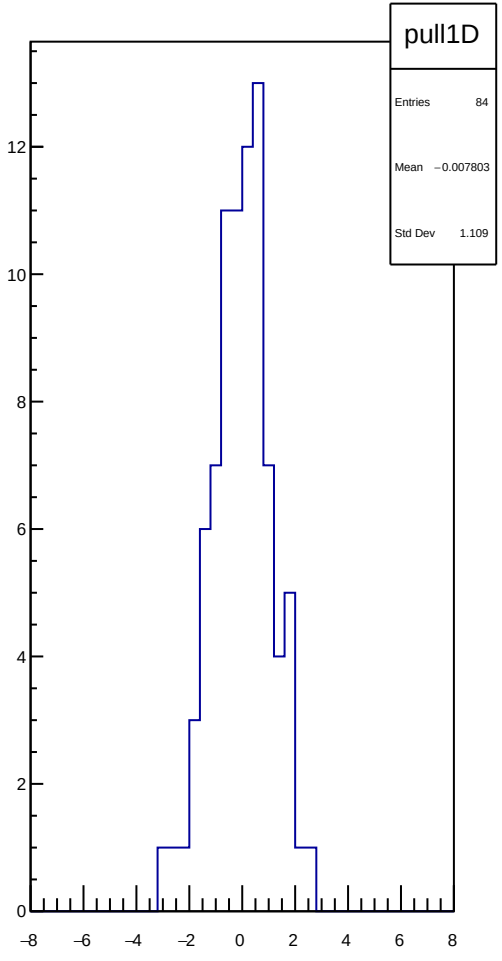

diff_bpmE_rms vs run
χ² / ndf 6280 / 83
p0 3.471e+04 ± 27.27
42000
40000
38000
36000
34000
32000
30000

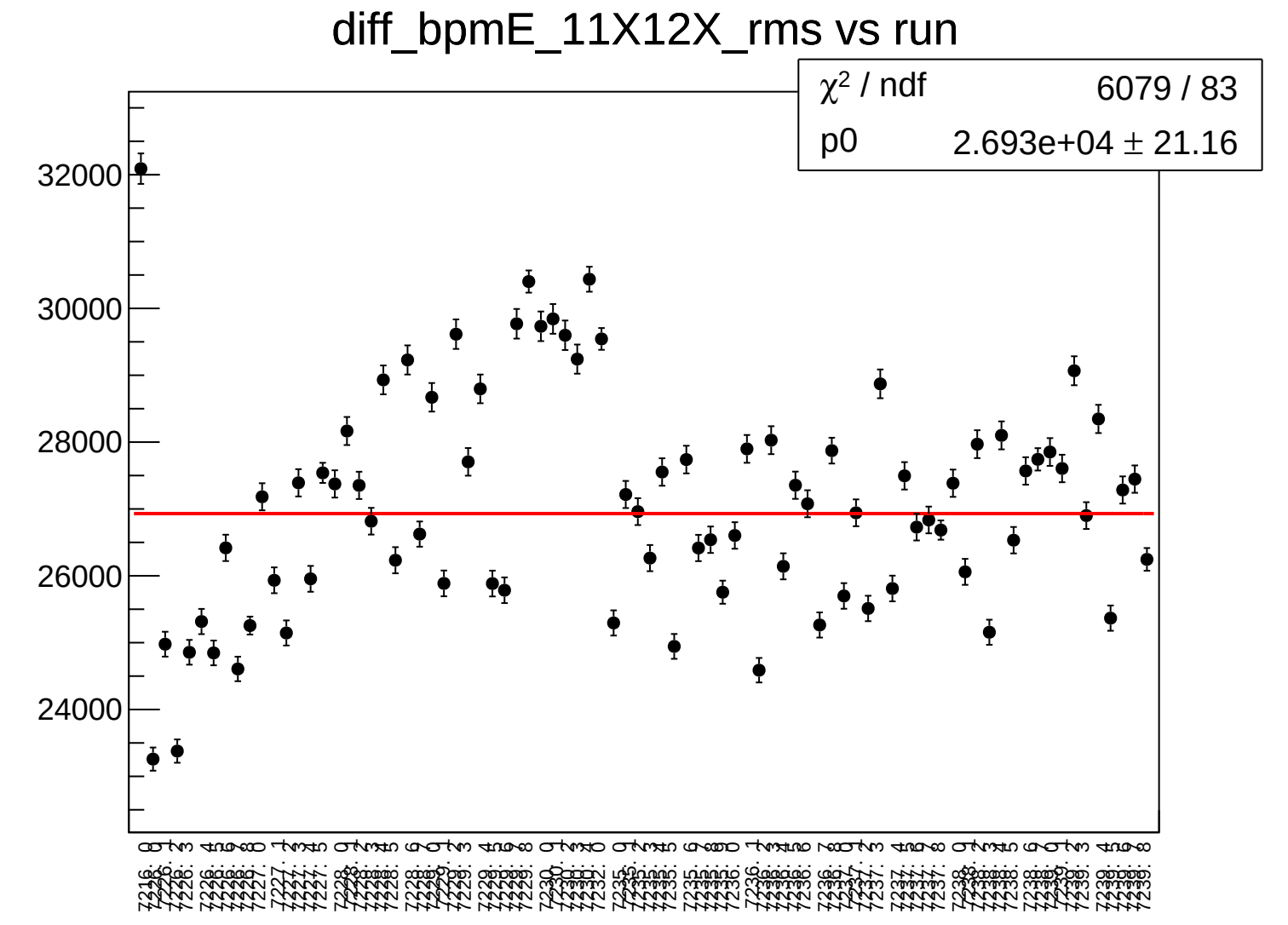

diff_bpmEX_mean vs run
χ^2 / ndf 103.1 / 83
p0 25.94 ± 38.56
1500
1000
500
0
−500
−1000
−1500
pull
Entries 84
Mean −81.58
Std Dev 0
2
1
0
−1
−2
−3

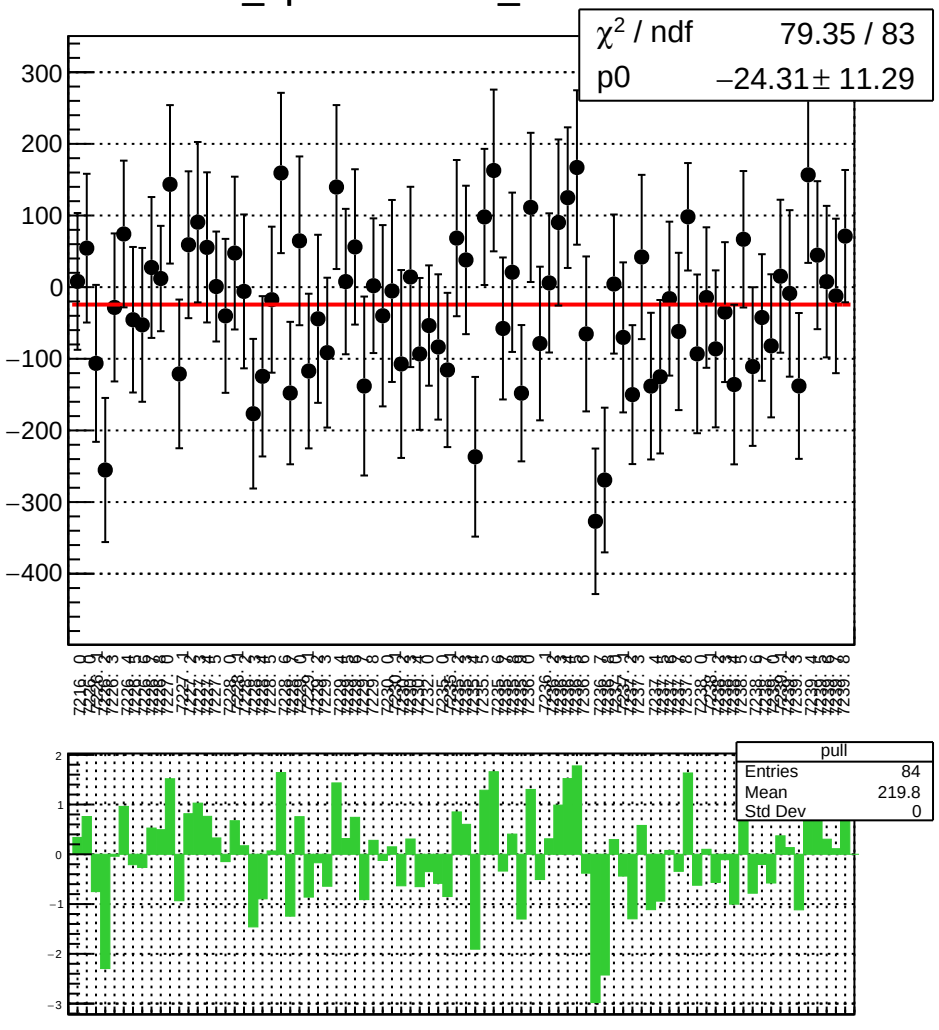

pull1D
Entries 84
Mean −0.007682
Std Dev 1.108
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

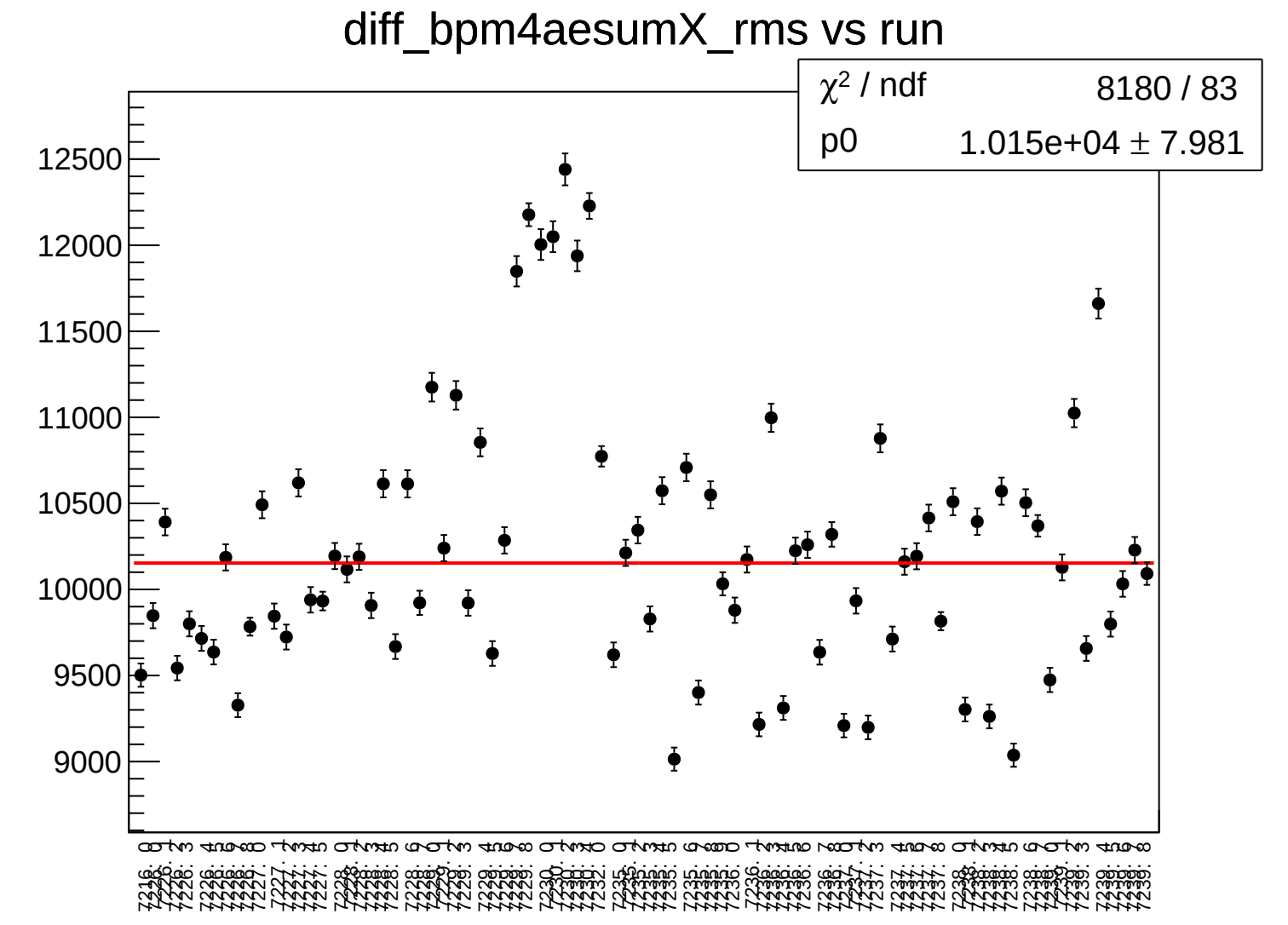

diff_bpmEX_rms vs run
χ² / ndf 6280 / 83
p0 3.471e+04 ± 27.27
42000
40000
38000
36000
34000
32000
30000

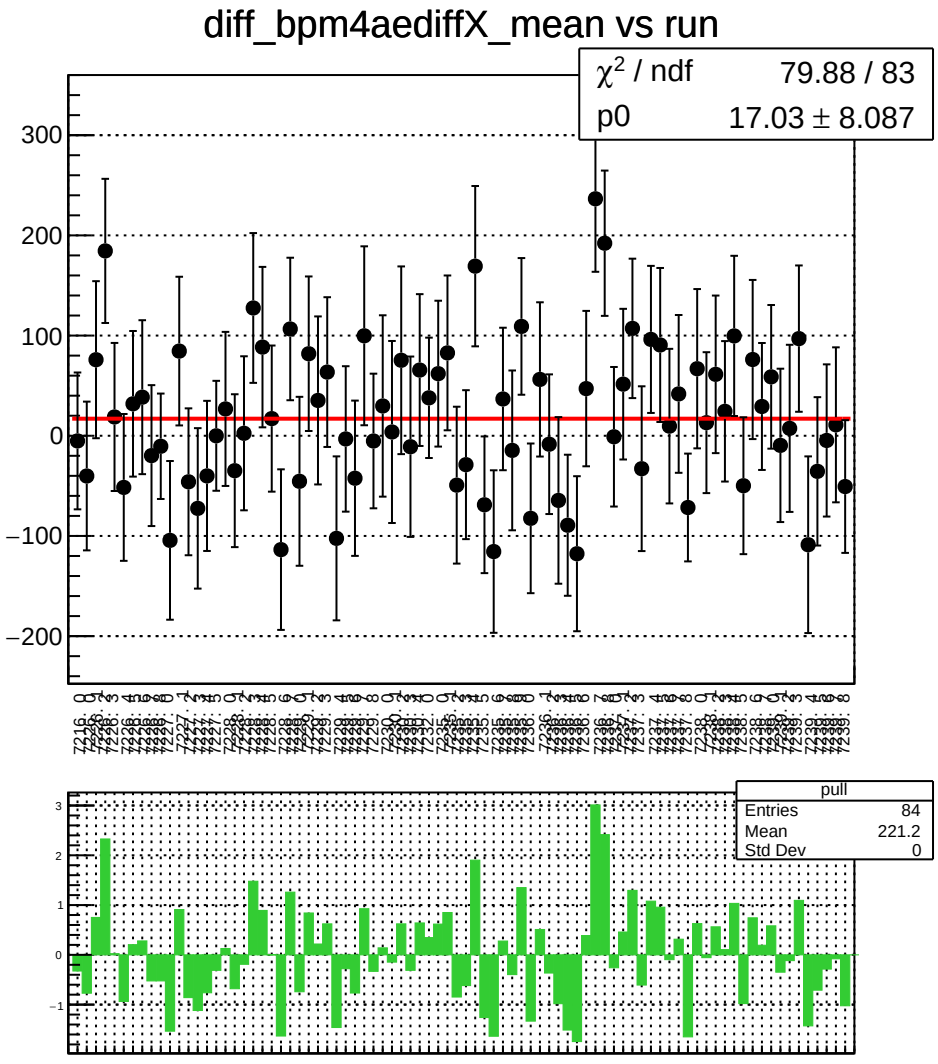

diff_bpmE_11X12X_mean vs run
χ² / ndf 103.3 / 83
p0 18.37 ± 29.92
1000
500
0
−500
−1000
pull
Entries 84
Mean −88.73
Std Dev 0
2
1
0
−1
−2
−3

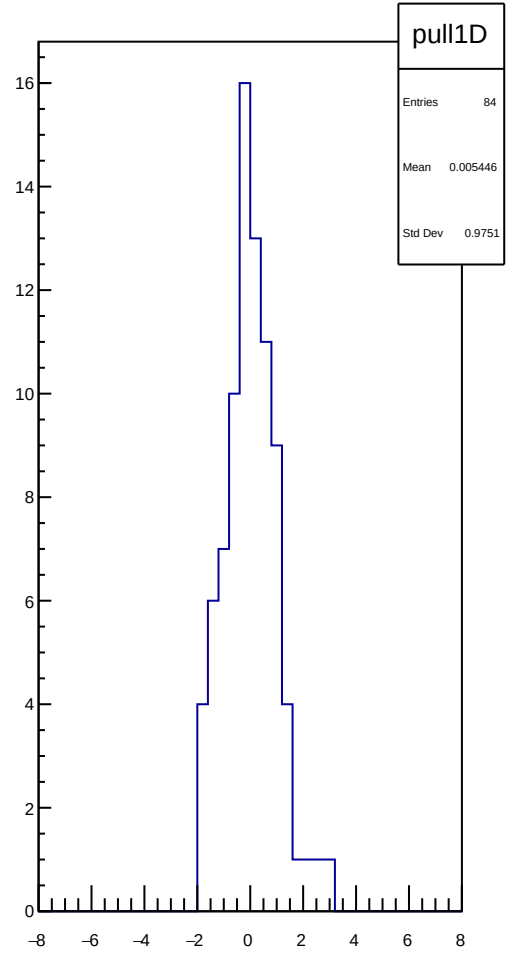

pull1D
Entries 84
Mean −0.007803
Std Dev 1.109
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

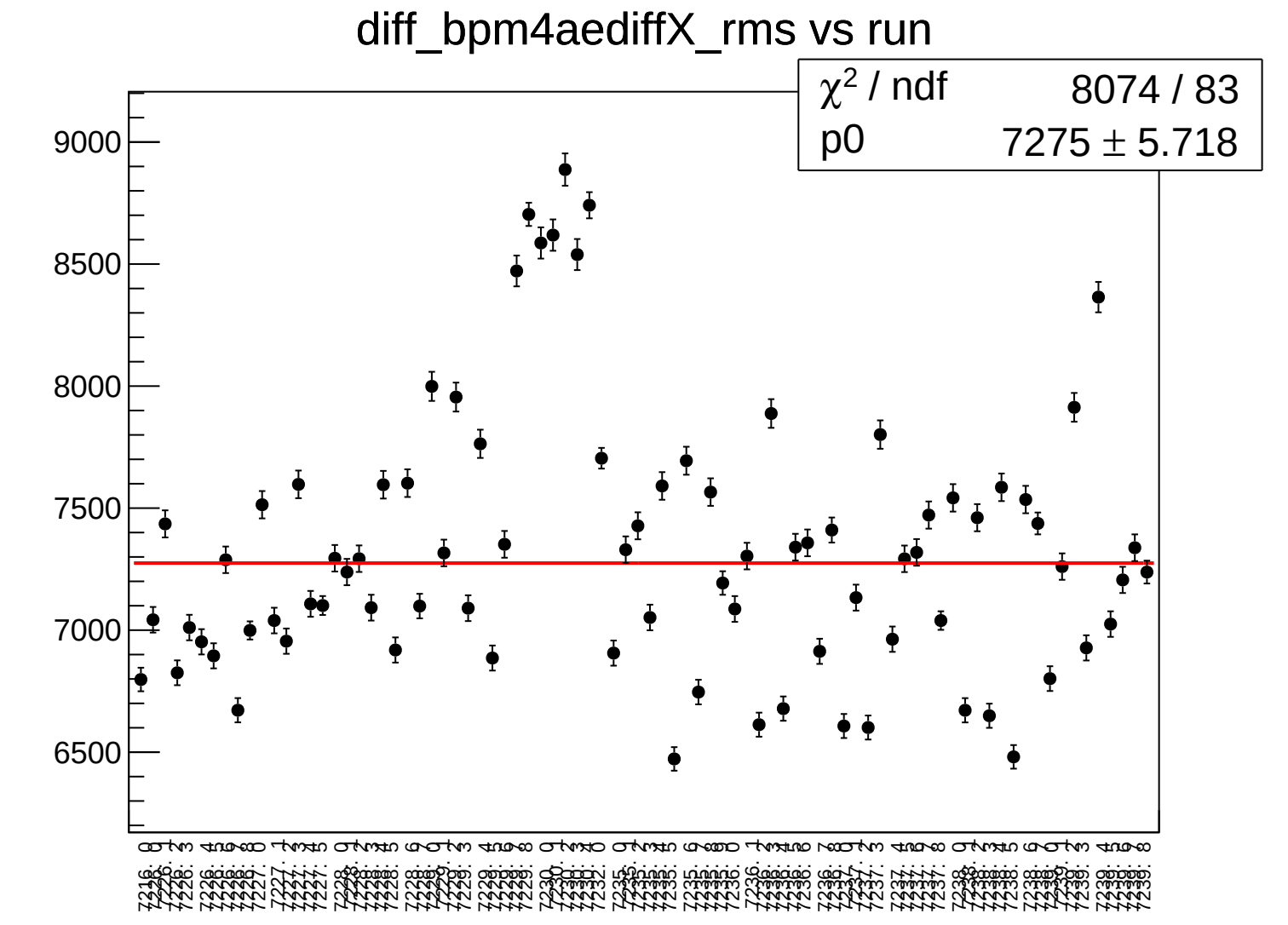

diff_bpmE_11X12X_rms vs run
χ² / ndf 6079 / 83
p0 2.693e+04 ± 21.16
32000
30000
28000
26000
24000

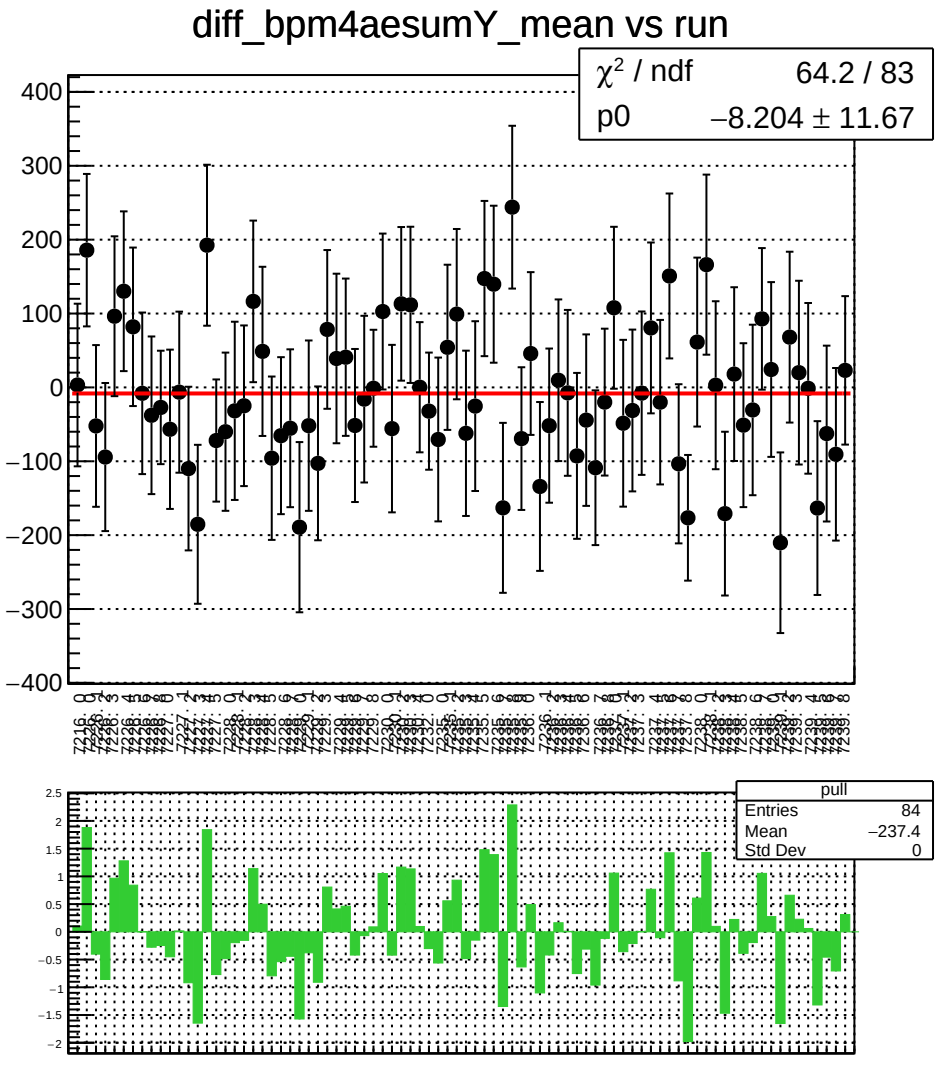

diff_bpm4aesumX_mean vs run
χ² / ndf 79.35 / 83
p0 −24.31± 11.29
pull
Entries 84
Mean 219.8
Std Dev 0
pull1D
Entries 84
Mean −0.005179
Std Dev 0.9719

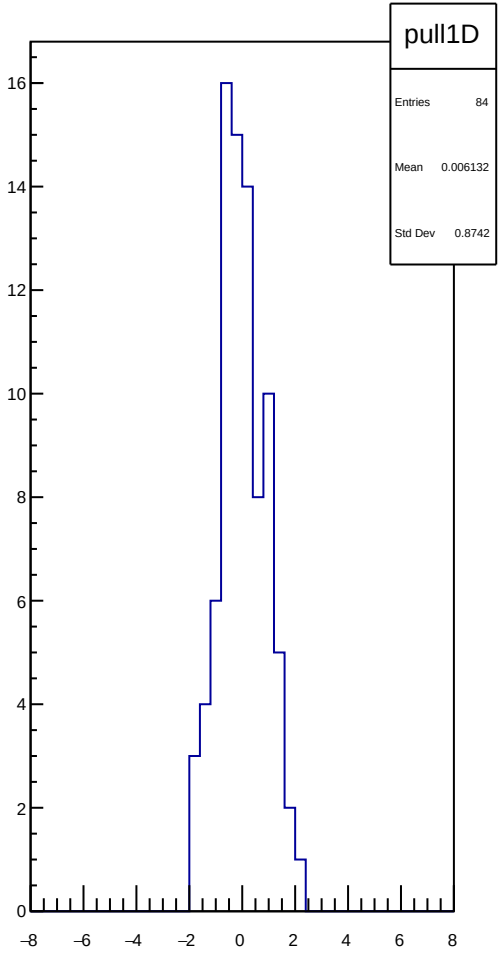

diff_bpm4aesumX_rms vs run
χ² / ndf 8180 / 83
p0 1.015e+04 ± 7.981
12500
12000
11500
11000
10500
10000
9500
9000

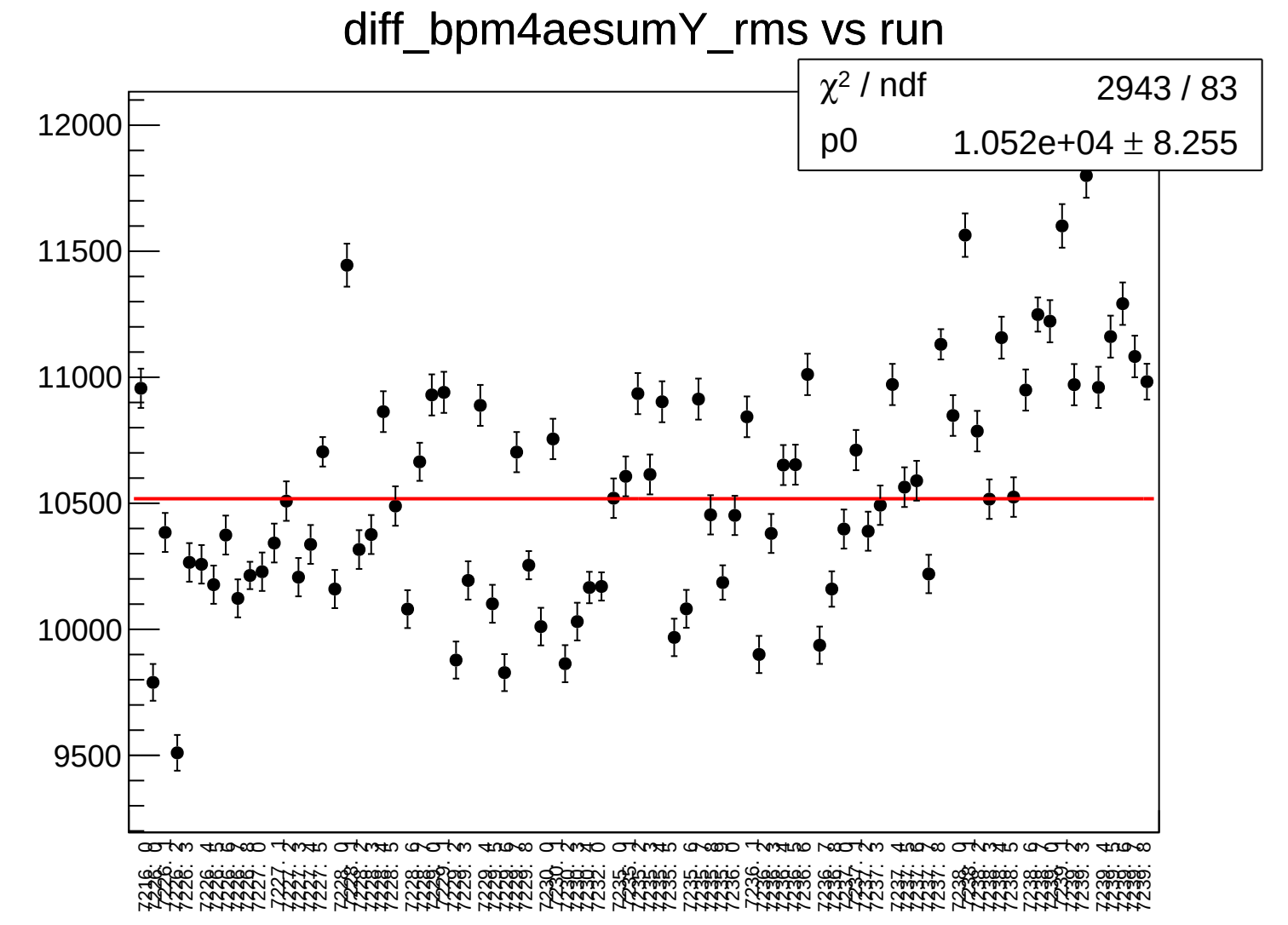

diff_bpm4aediffX_mean vs run
χ^2 / ndf 79.88 / 83
p0 17.03 ± 8.087
300
200
100
0
−100
−200
pull
Entries 84
Mean 221.2
Std Dev 0
3
2
1
0
−1

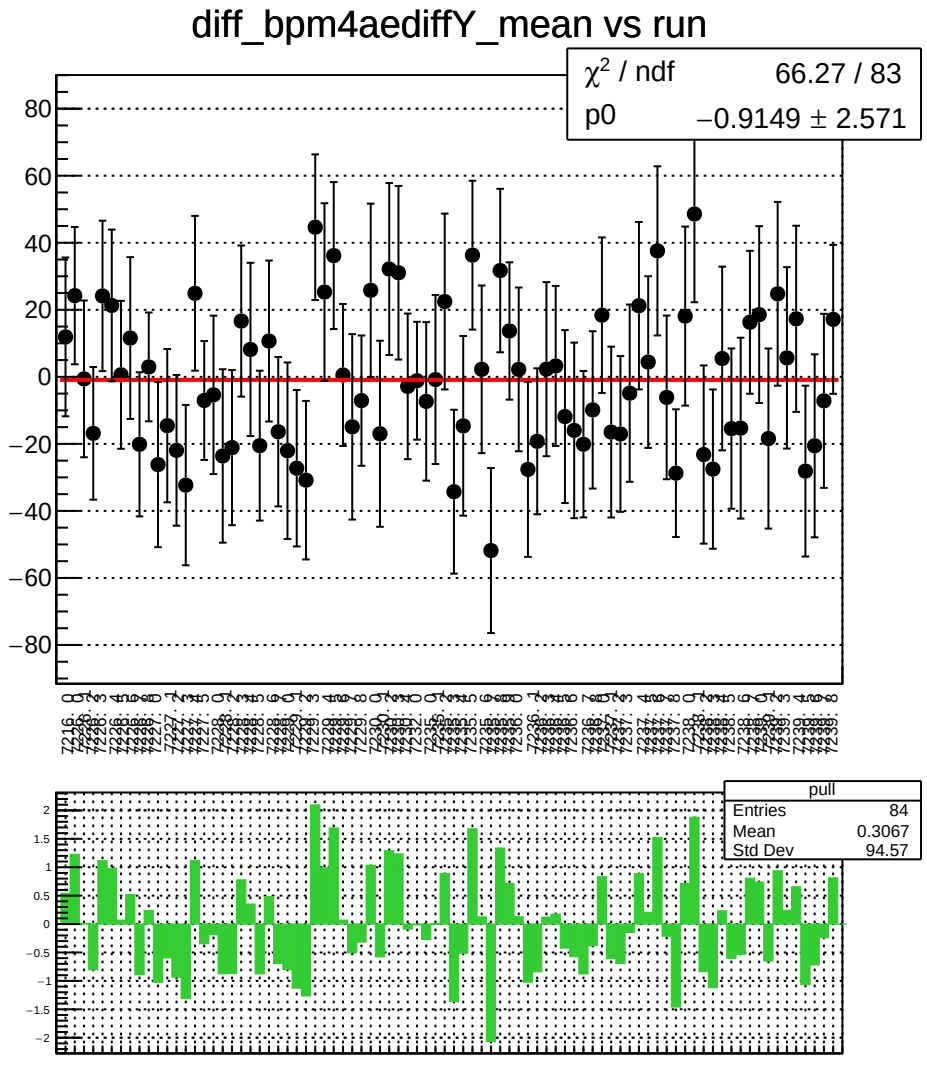

pull1D
Entries 84
Mean 0.005446
Std Dev 0.9751
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

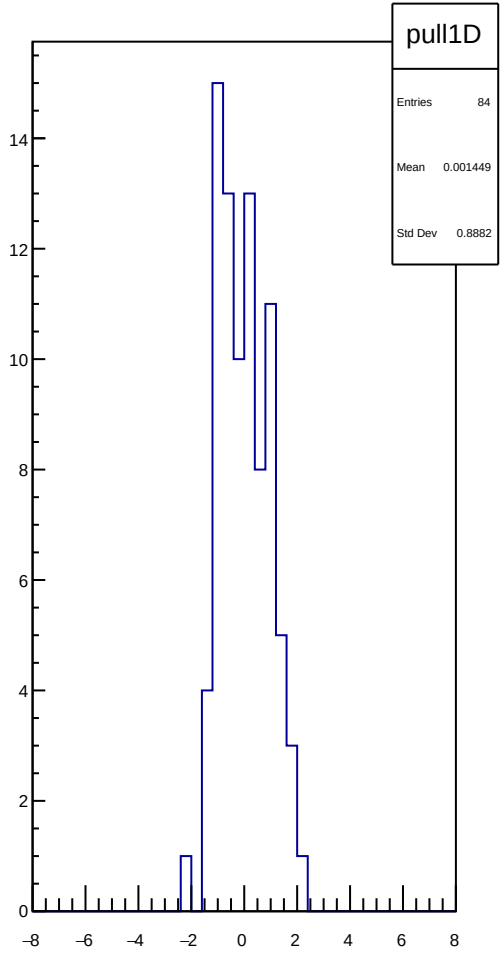

diff_bpm4aediffX_rms vs run
χ^2 / ndf 8074 / 83
p0 7275 ± 5.718
9000
8500
8000
7500
7000
6500

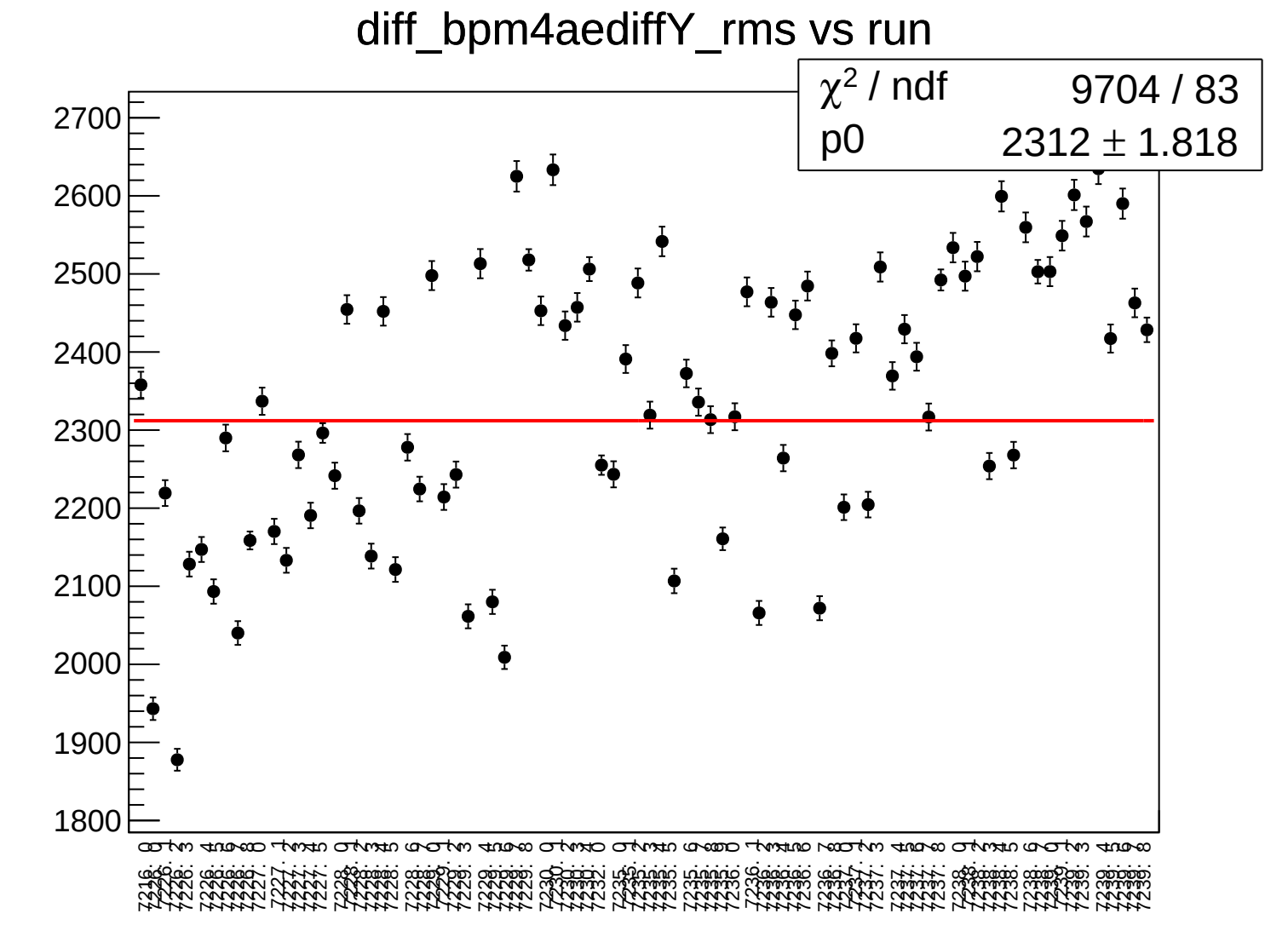

diff_bpm4aesumY_mean vs run
χ² / ndf 64.2 / 83
p0 −8.204 ± 11.67
pull
Entries 84
Mean −237.4
Std Dev 0

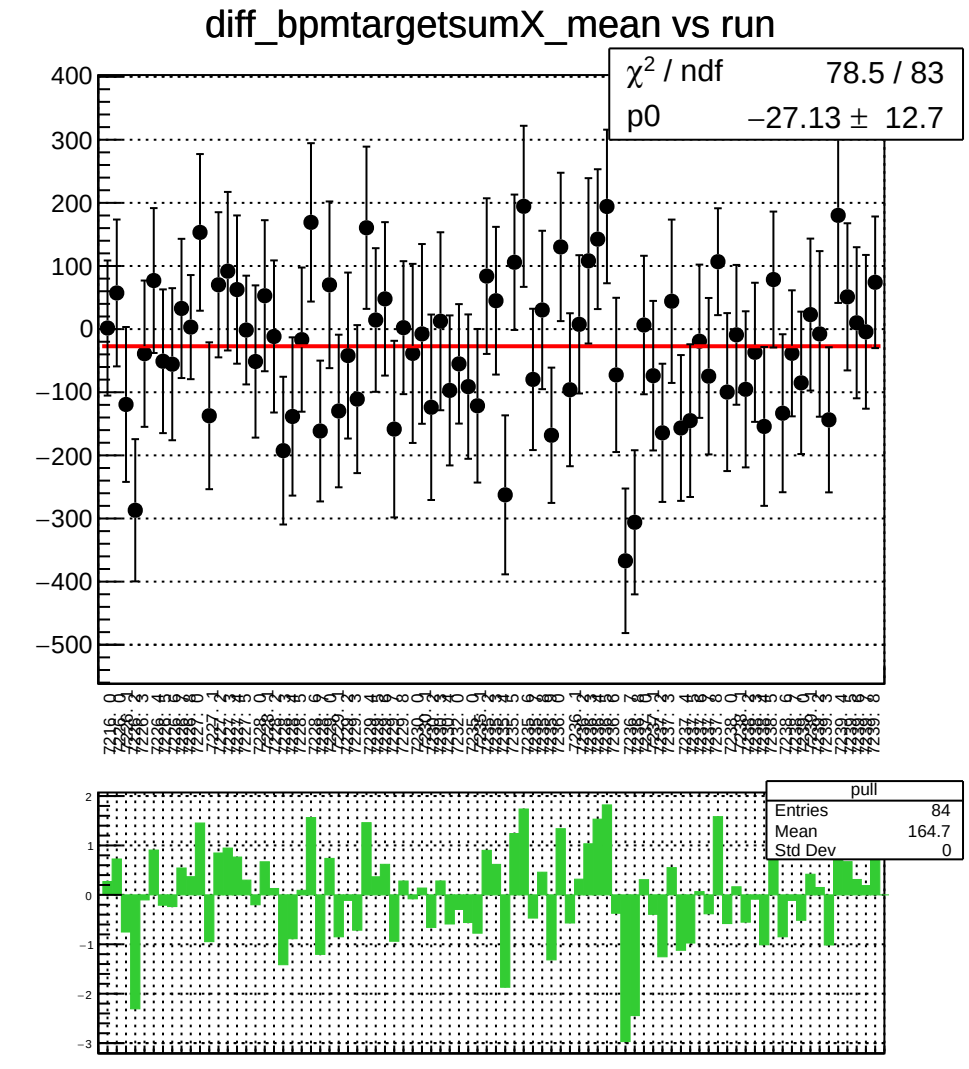

pull1D
Entries 84
Mean 0.006132
Std Dev 0.8742

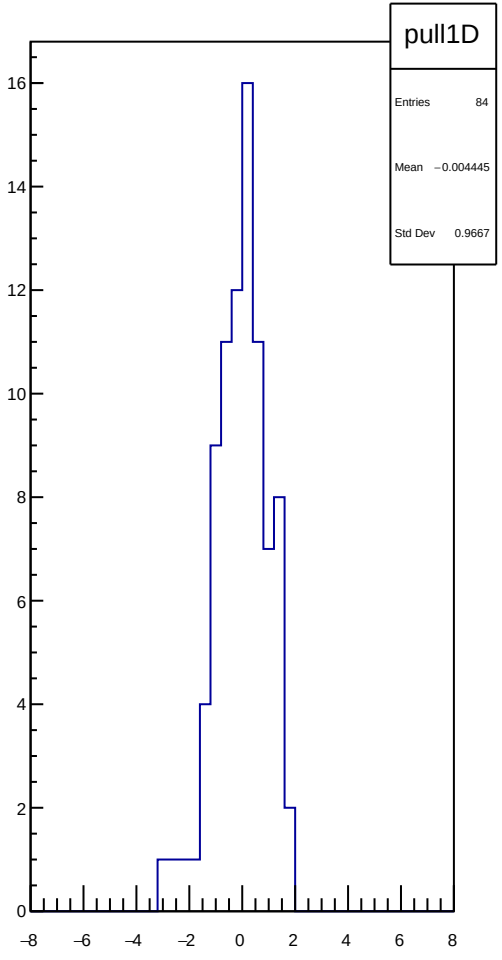

diff_bpm4aesumY_rms vs run
χ² / ndf 2943 / 83
p0 1.052e+04 ± 8.255
12000
11500
11000
10500
10000
9500

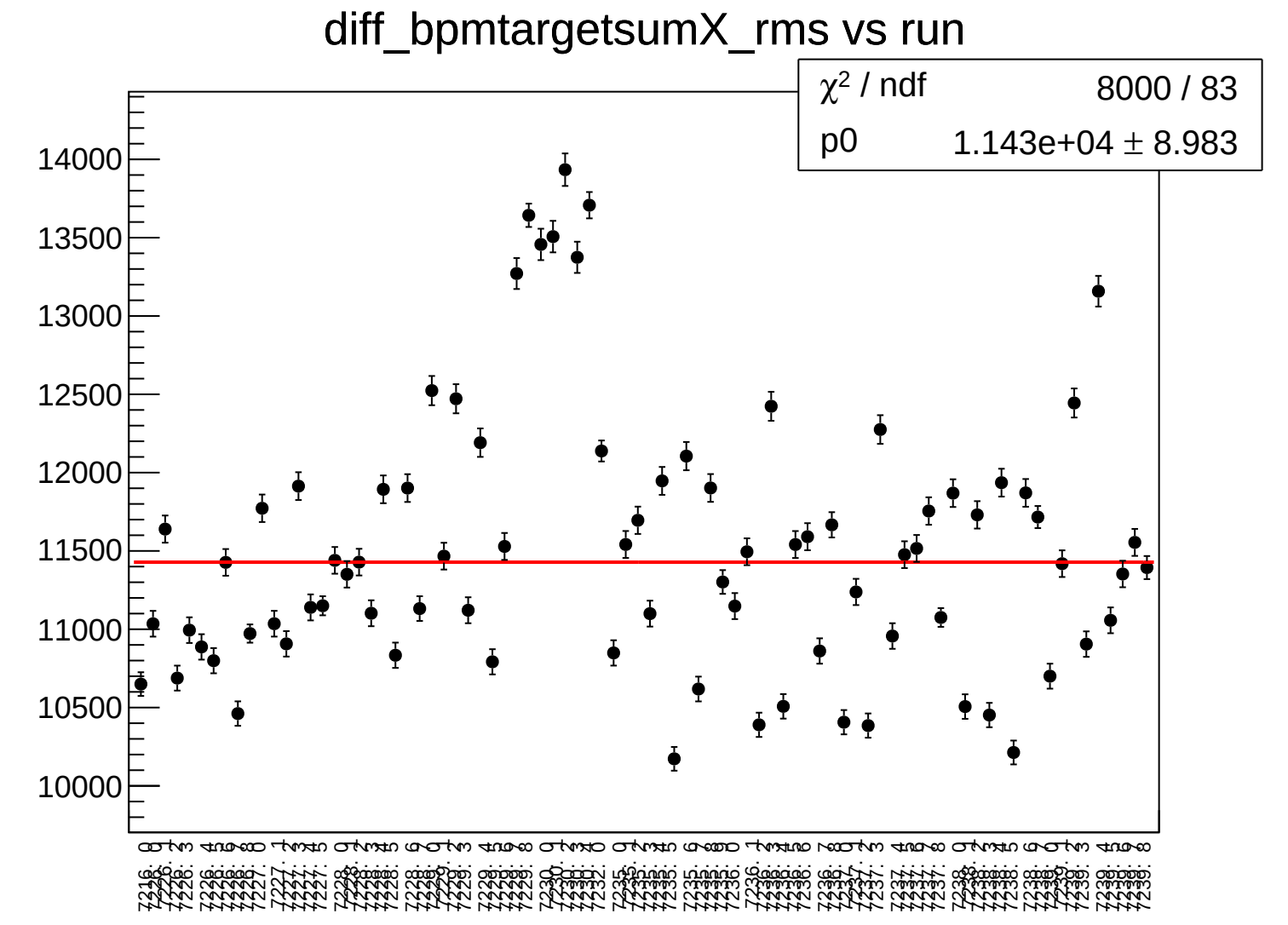

diff_bpm4aediffY_mean vs run
χ² / ndf 66.27 / 83
p0 −0.9149 ± 2.571
pull
Entries 84
Mean 0.3067
Std Dev 94.57

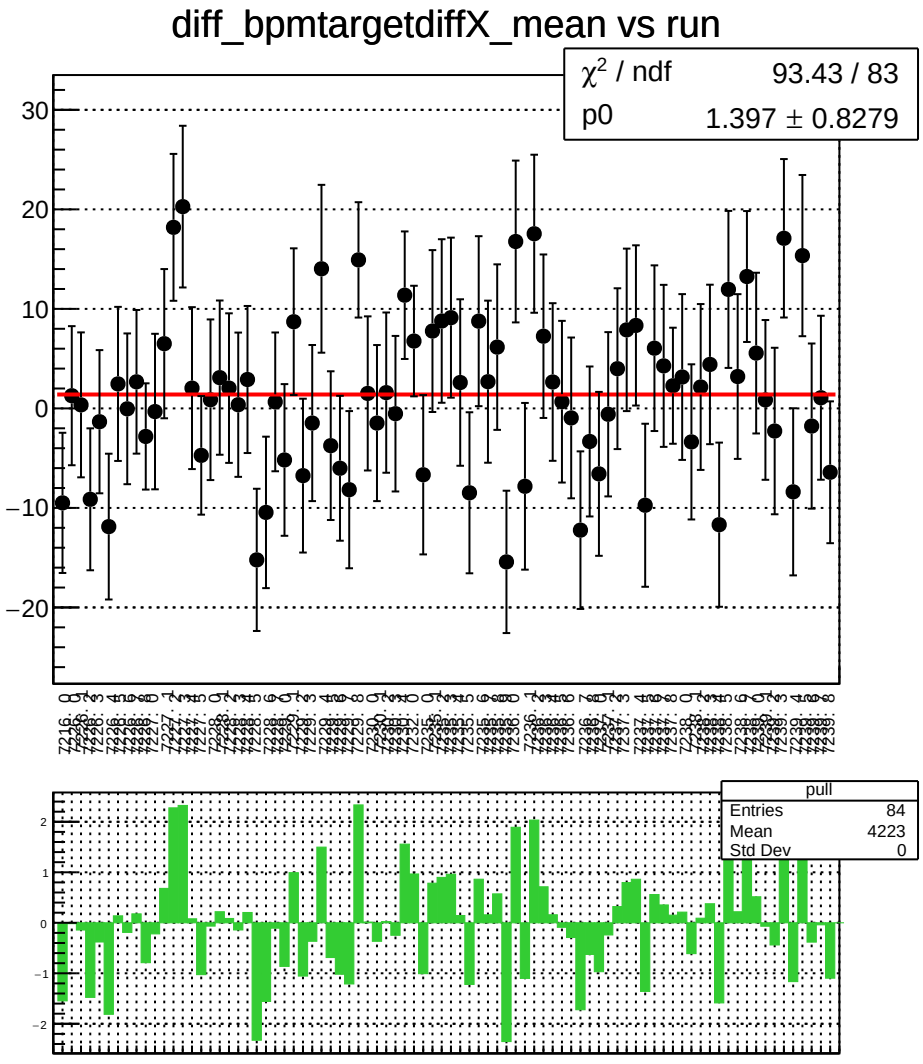

pull1D
Entries 84
Mean 0.001449
Std Dev 0.8882

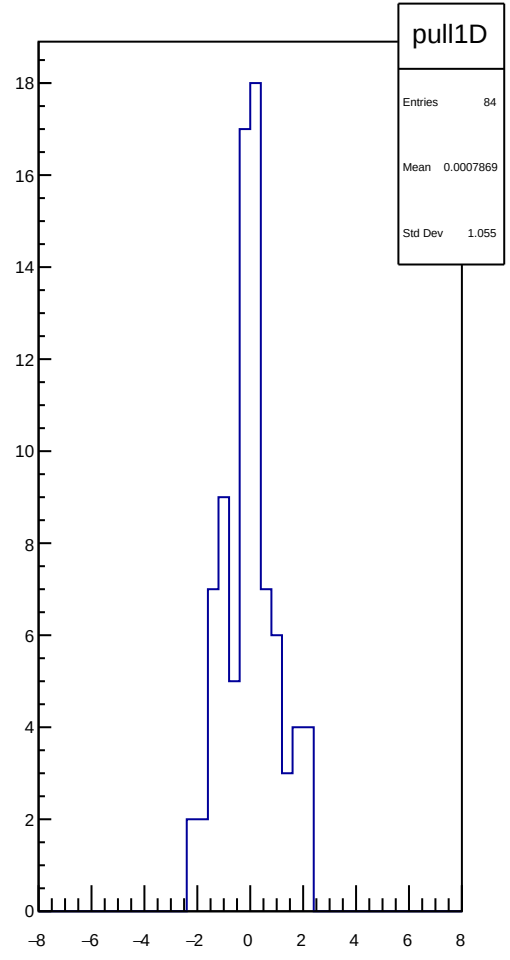

diff_bpm4aediffY_rms vs run
χ² / ndf 9704 / 83
p0 2312 ± 1.818
2700
2600
2500
2400
2300
2200
2100
2000
1900
1800

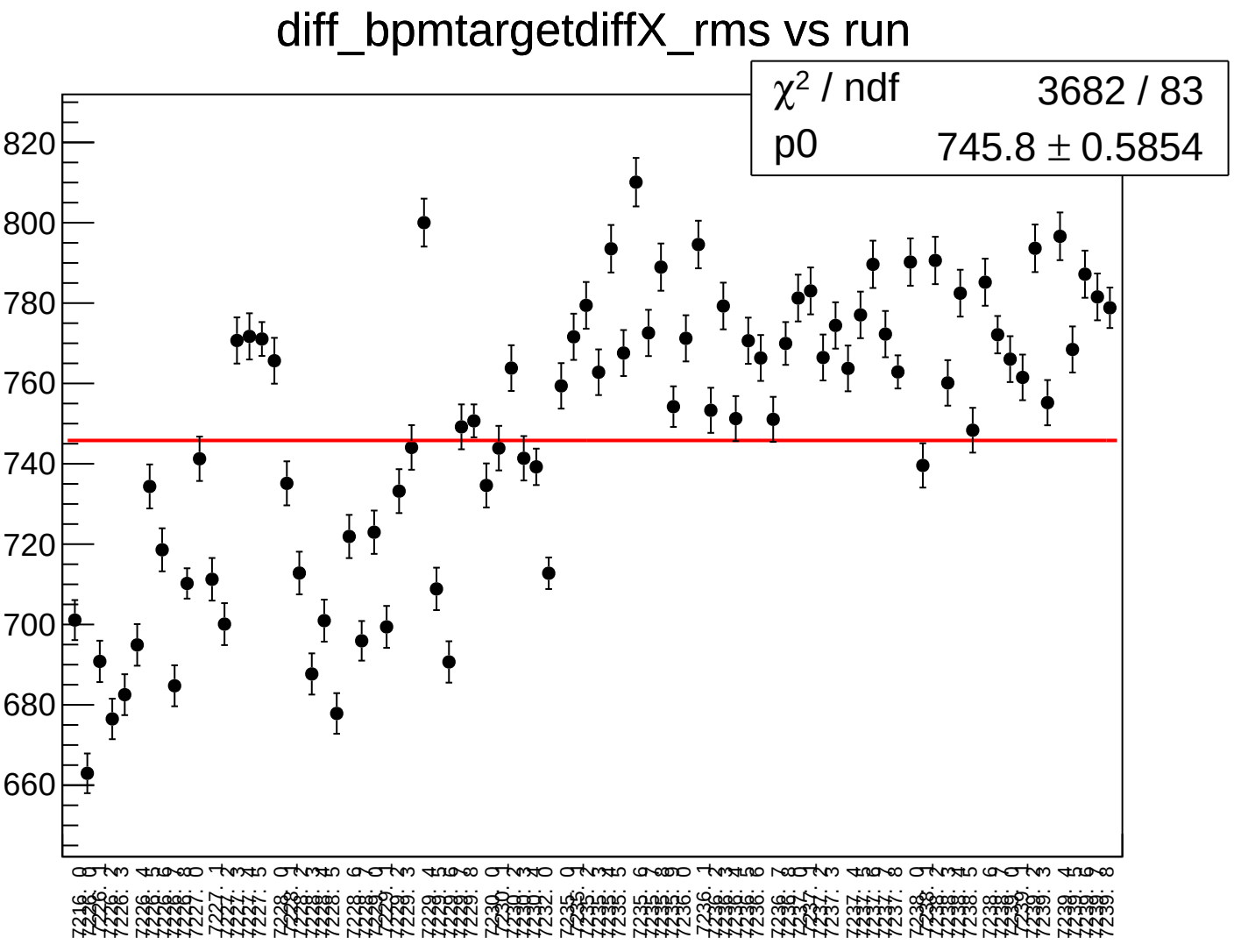

diff_bpmtargetsumX_mean vs run
χ² / ndf 78.5 / 83
p0 −27.13 ± 12.7
pull
Entries 84
Mean 164.7
Std Dev 0

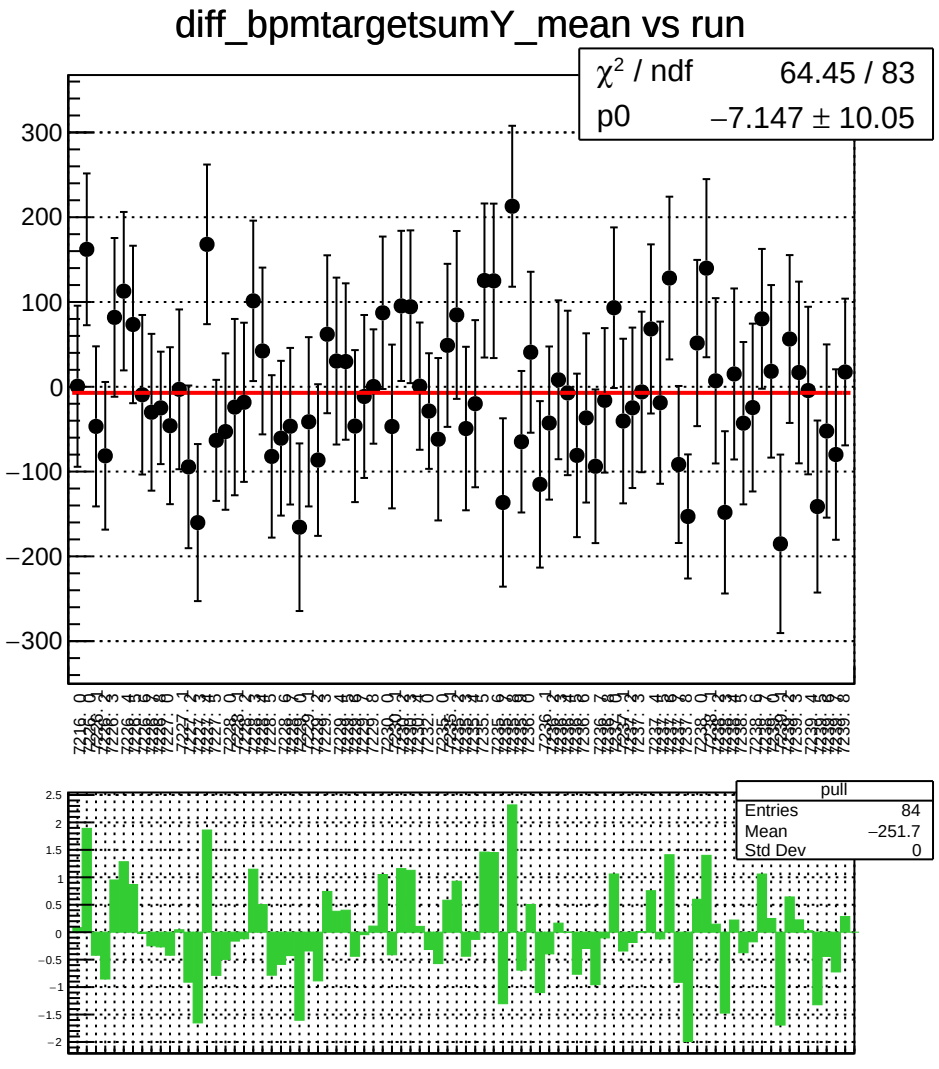

pull1D
Entries 84
Mean −0.004445
Std Dev 0.9667

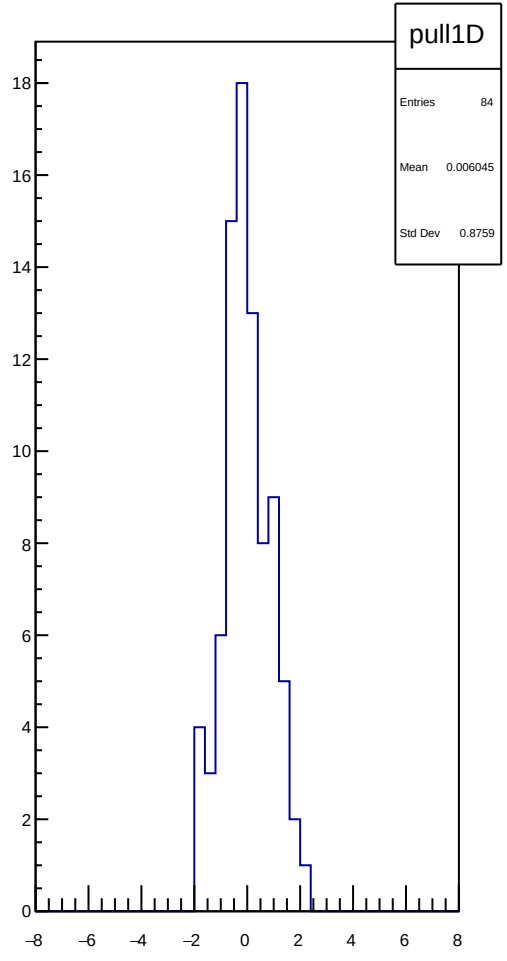

diff_bpmtargetsumX_rms vs run
χ² / ndf 8000 / 83
p0 1.143e+04 ± 8.983
14000
13500
13000
12500
12000
11500
11000
10500
10000

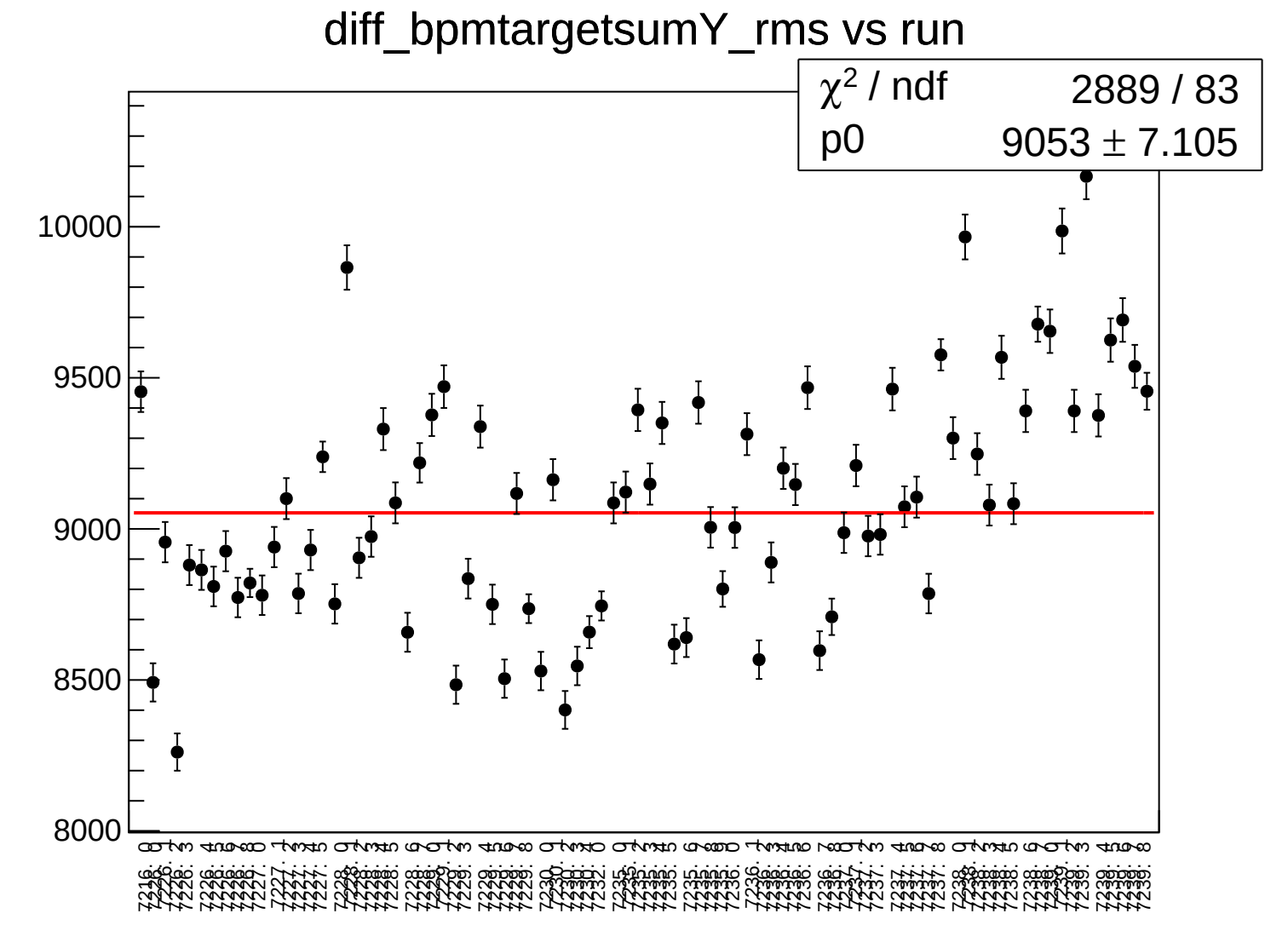

diff_bpmtargetdiffX_mean vs run
χ² / ndf 93.43 / 83
p0 1.397 ± 0.8279
pull
Entries 84
Mean 4223
Std Dev 0

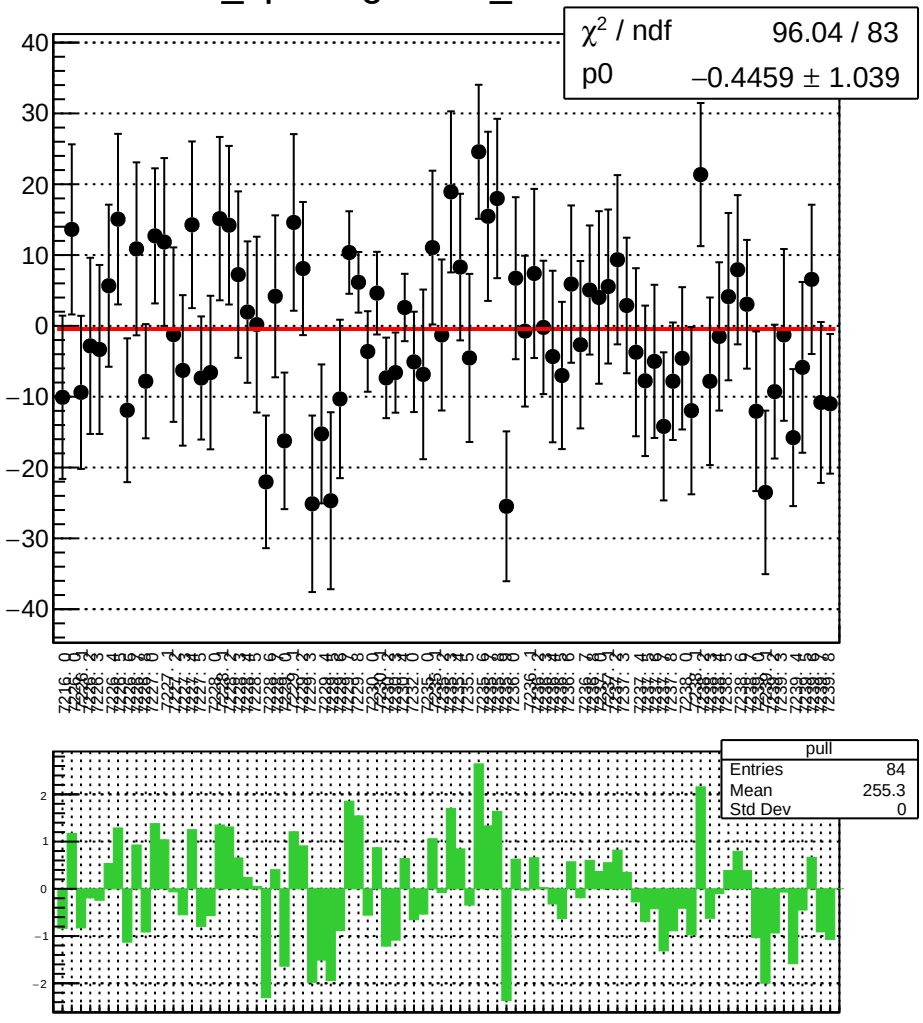

pull1D
Entries 84
Mean 0.0007869
Std Dev 1.055

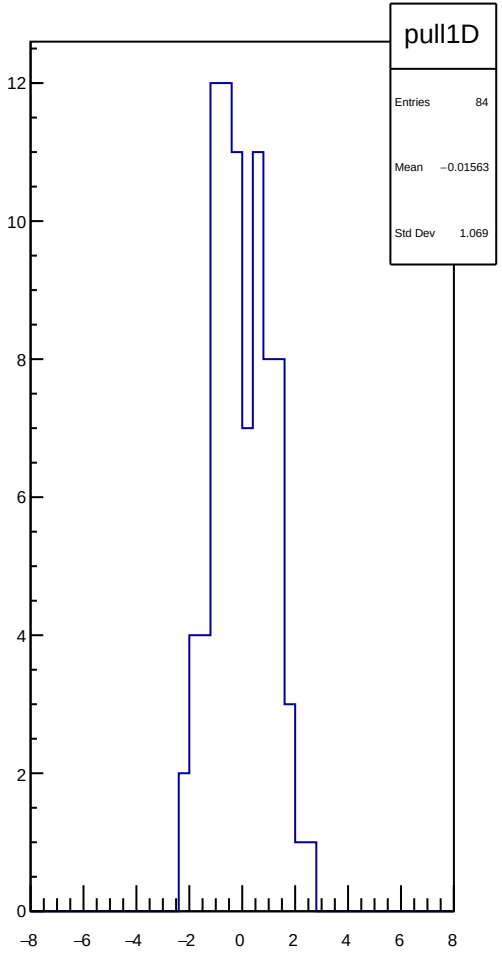

diff_bpmtargetdiffX_rms vs run
χ² / ndf 3682 / 83
p0 745.8 ± 0.5854
820
800
780
760
740
720
700
680
660

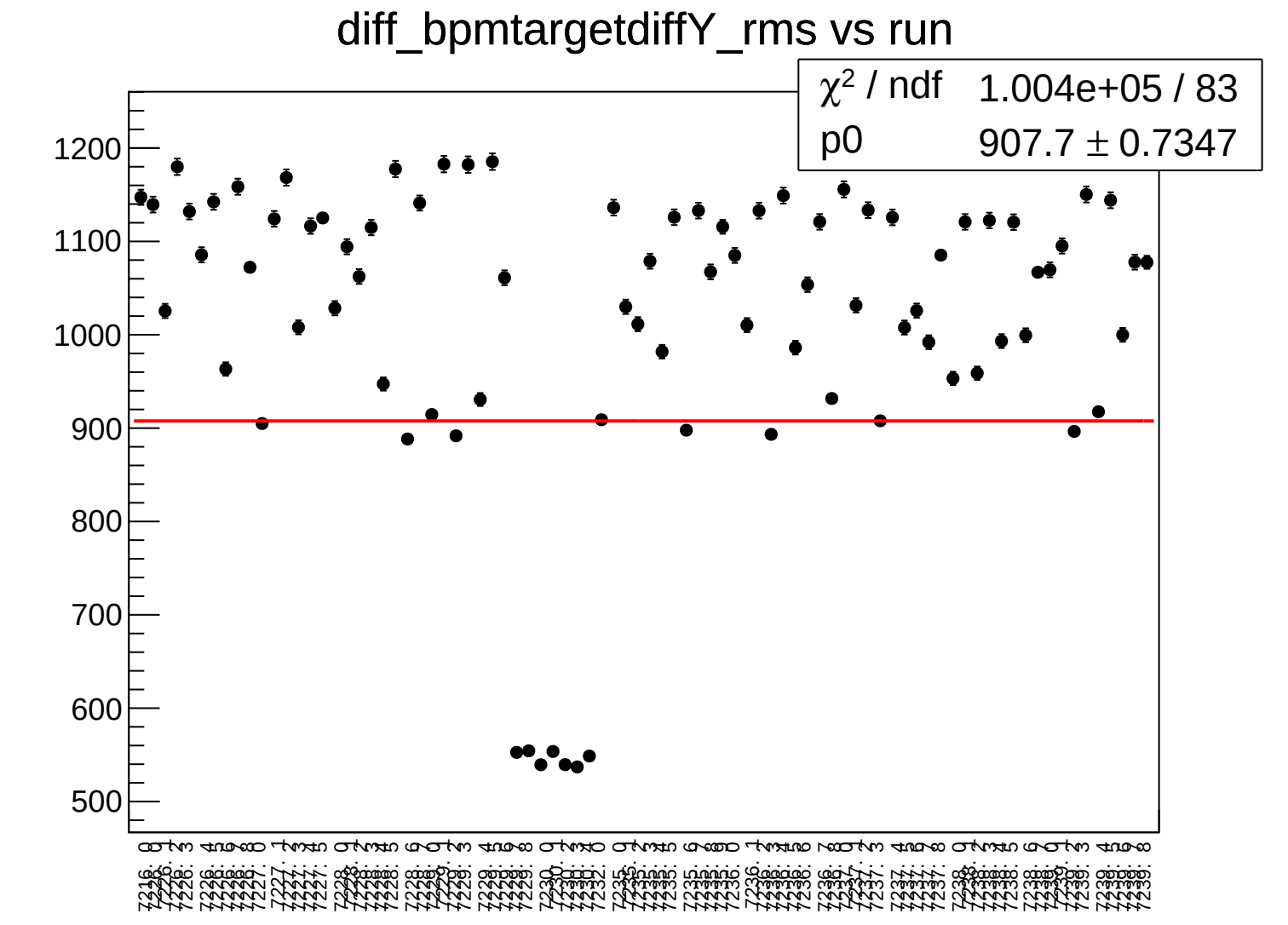

diff_bpmtargetsumY_mean vs run
χ² / ndf 64.45 / 83
p0 −7.147 ± 10.05
300
200
100
0
−100
−200
−300
pull
Entries 84
Mean −251.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

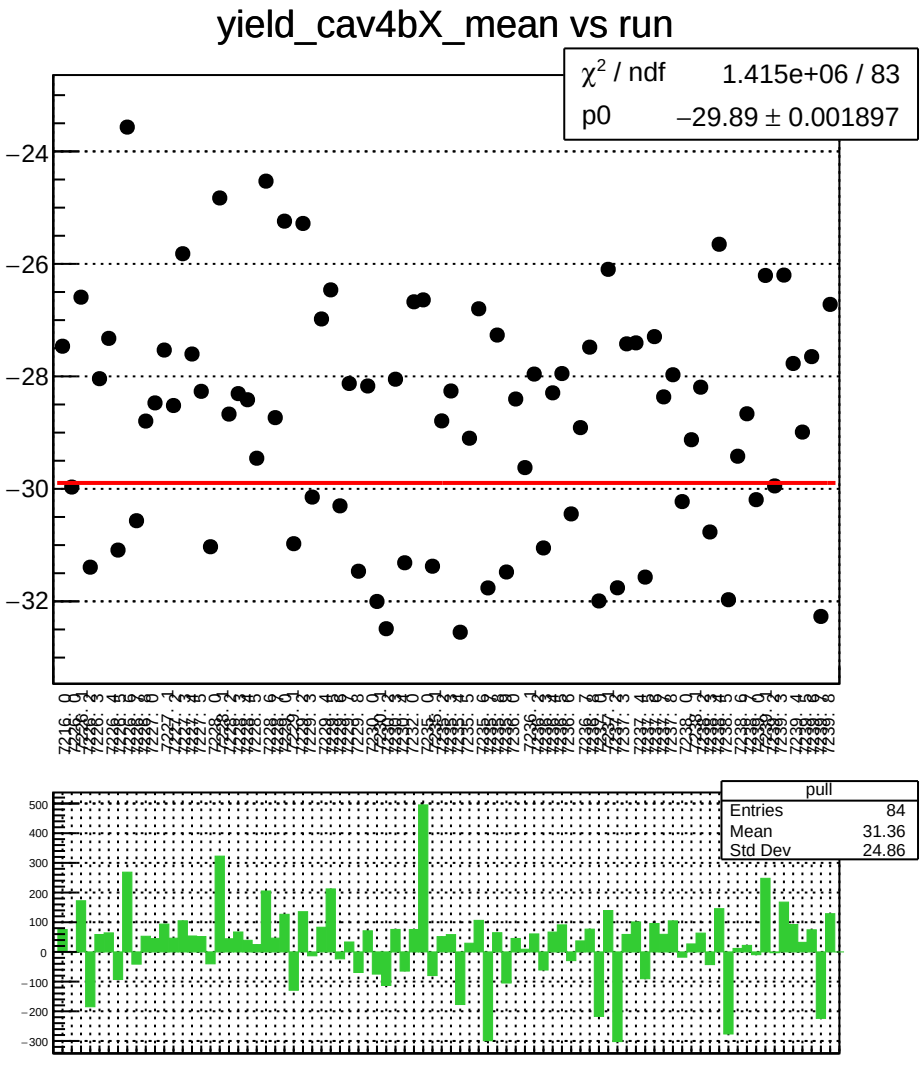

pull1D
Entries 84
Mean 0.006045
Std Dev 0.8759
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

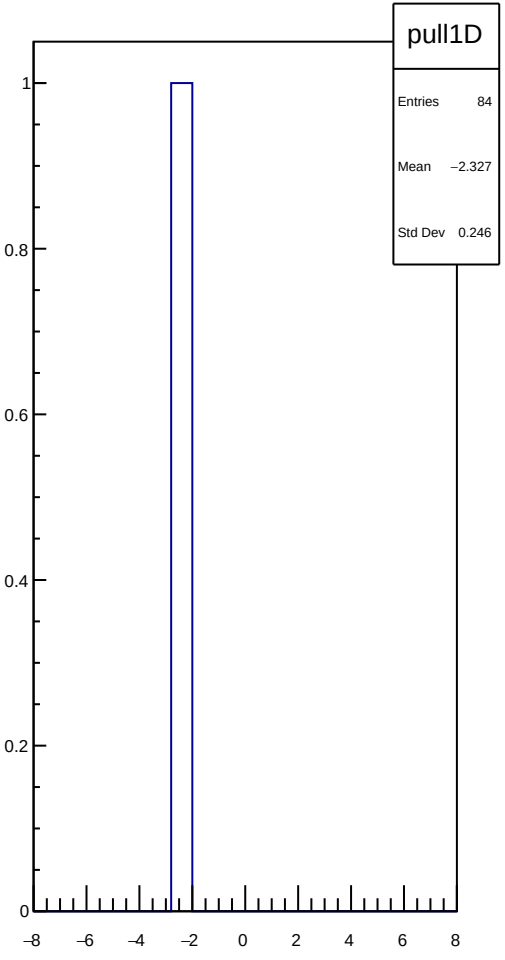

diff_bpmtargetsumY_rms vs run
χ² / ndf 2889 / 83
p0 9053 ± 7.105
10000
9500
9000
8500
8000

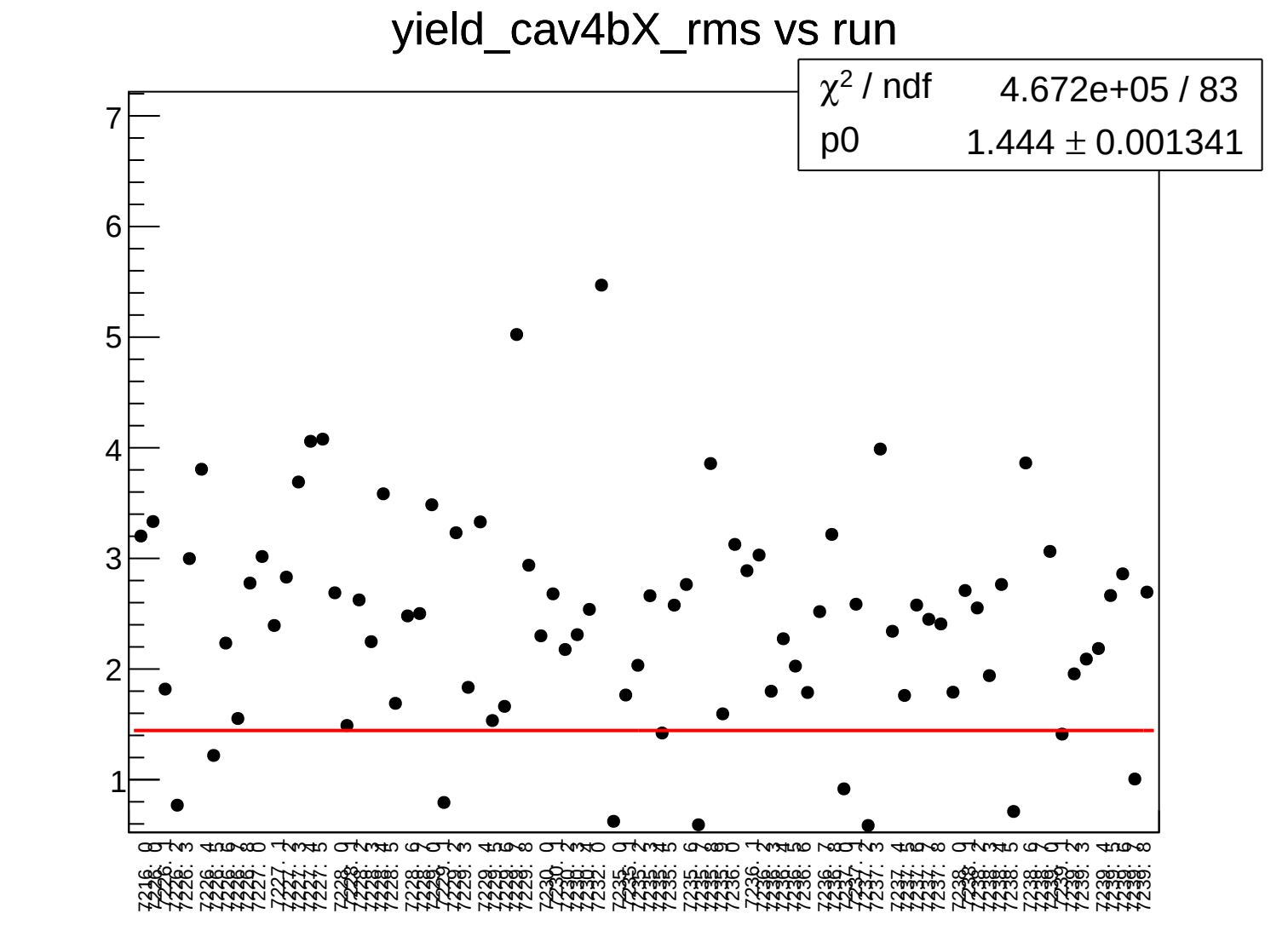

diff_bpmtargetdiffY_mean vs run
χ² / ndf 96.04 / 83
p0 −0.4459 ± 1.039
pull
Entries 84
Mean 255.3
Std Dev 0

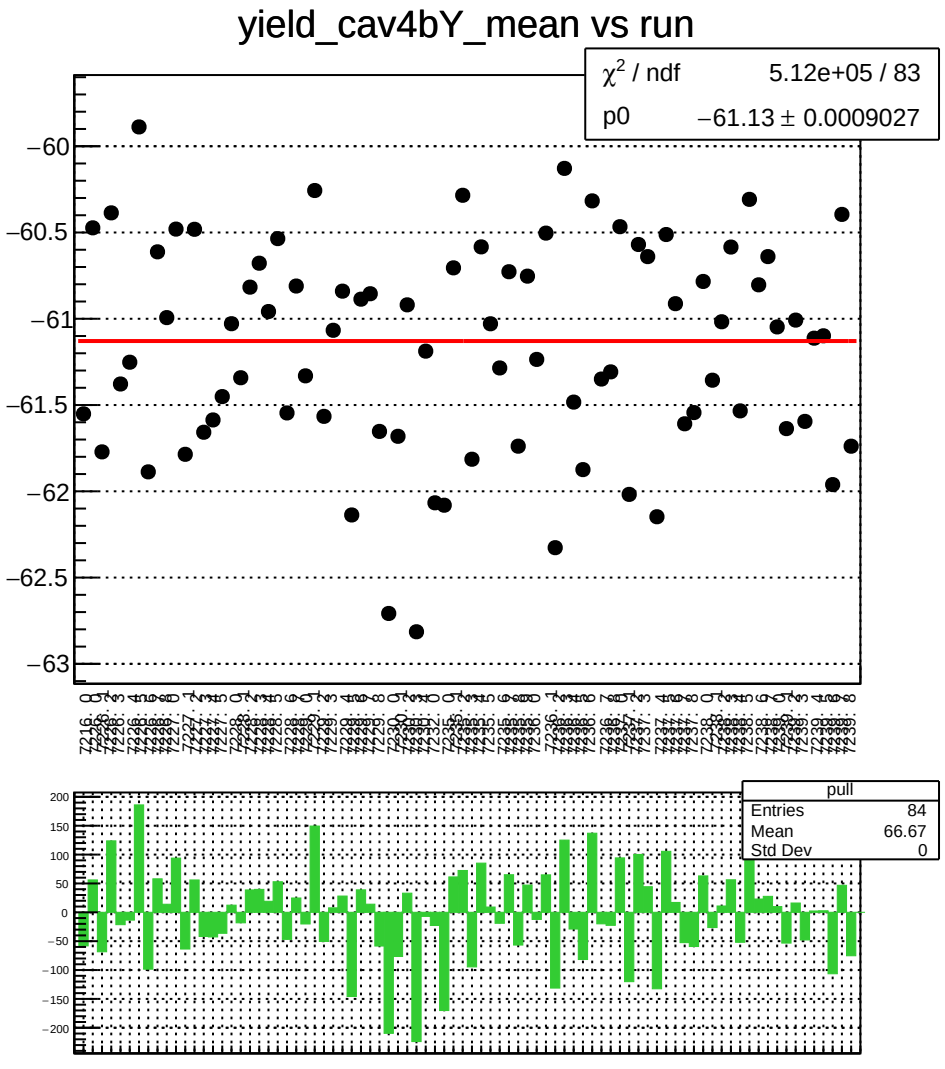

pull1D
Entries 84
Mean −0.01563
Std Dev 1.069

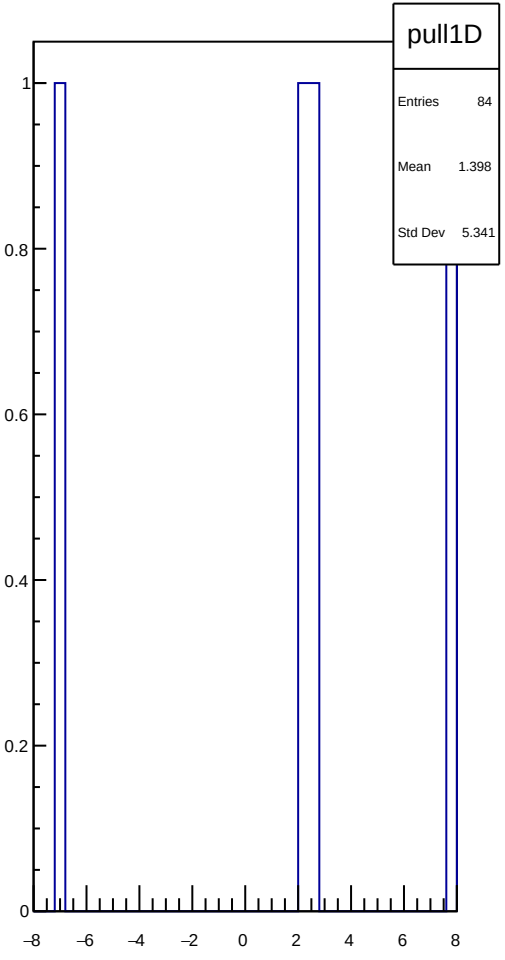

diff_bpmtargetdiffY_rms vs run
χ² / ndf 1.004e+05 / 83
p0 907.7 ± 0.7347
1200
1100
1000
900
800
700
600
500

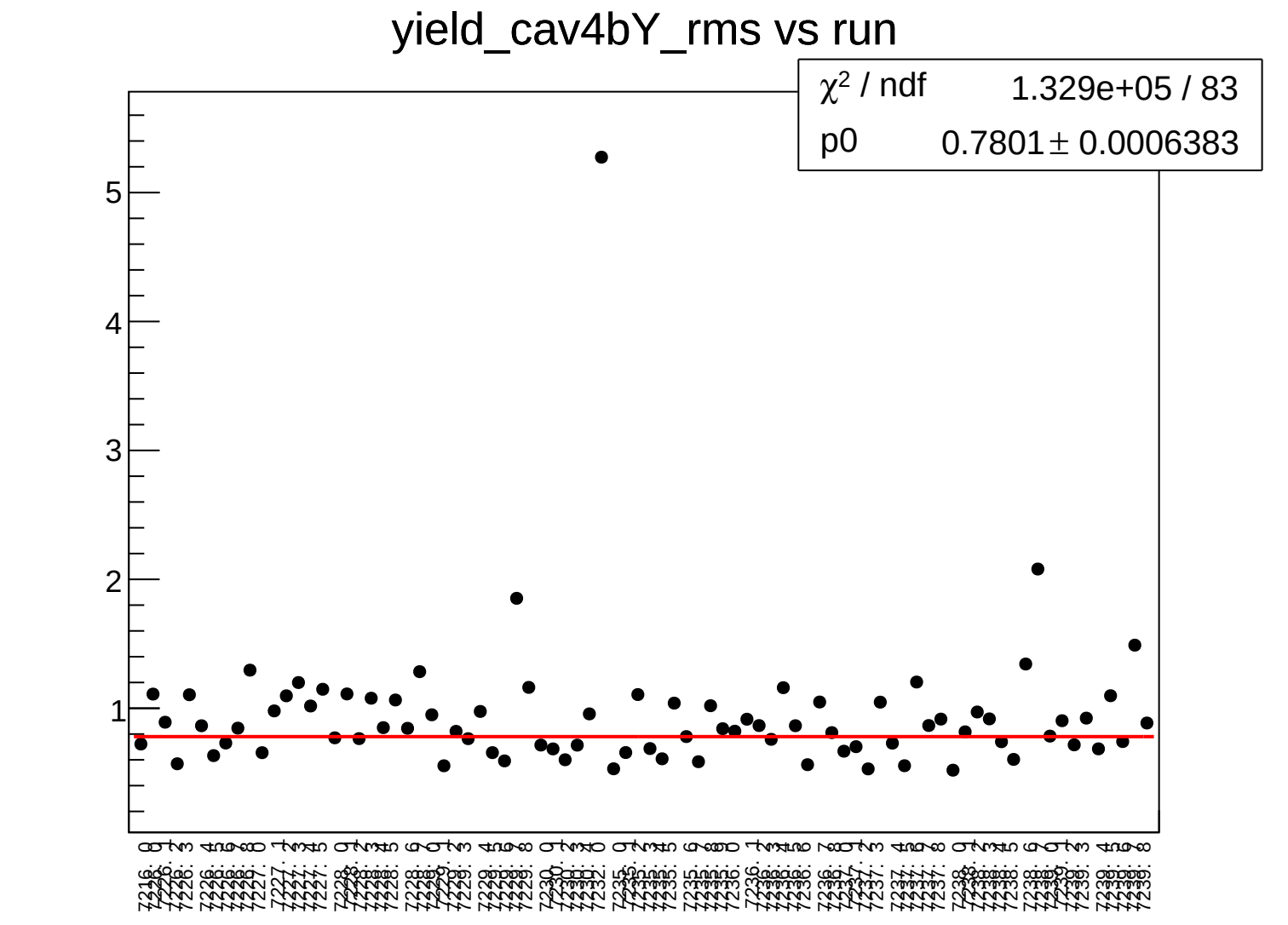

yield_cav4bX_mean vs run
χ² / ndf 1.415e+06 / 83
p0 −29.89 ± 0.001897
−24
−26
−28
−30
−32
pull
Entries 84
Mean 31.36
Std Dev 24.86
500
400
300
200
100
0
−100
−200
−300

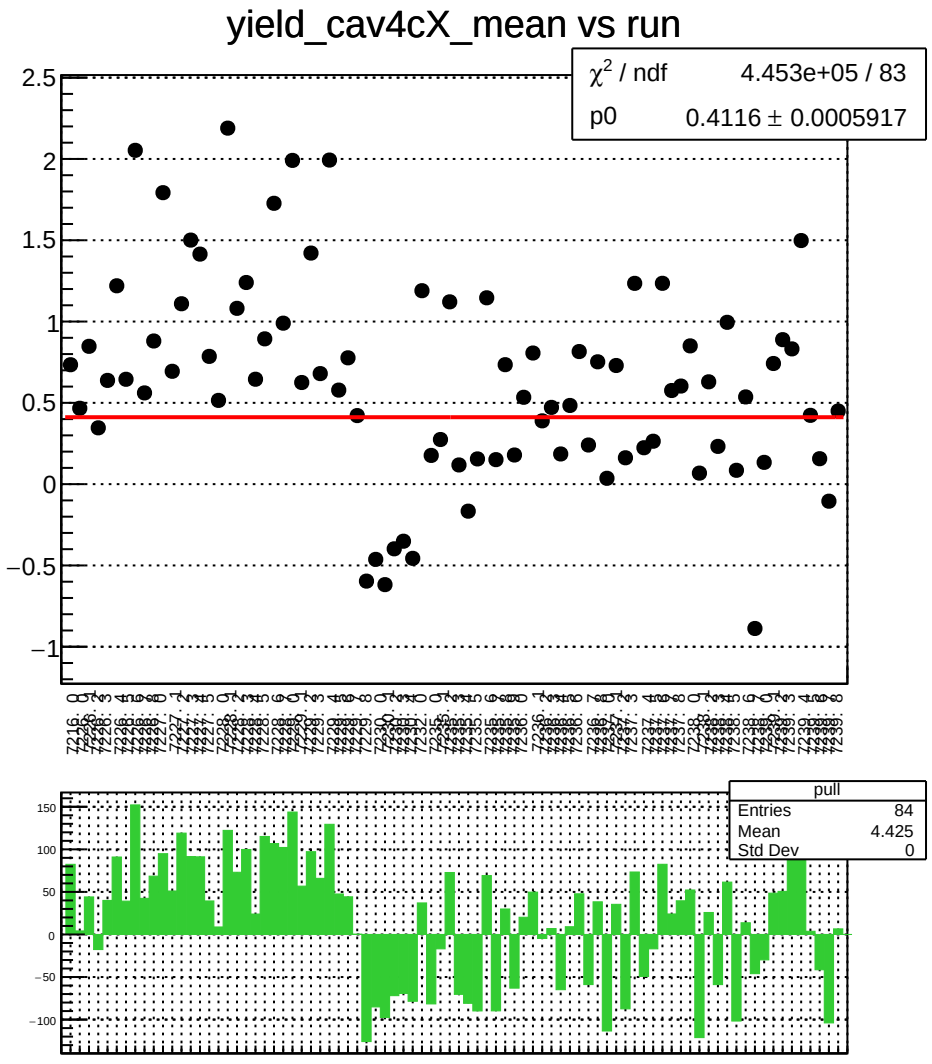

pull1D
Entries 84
Mean −2.327
Std Dev 0.246
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

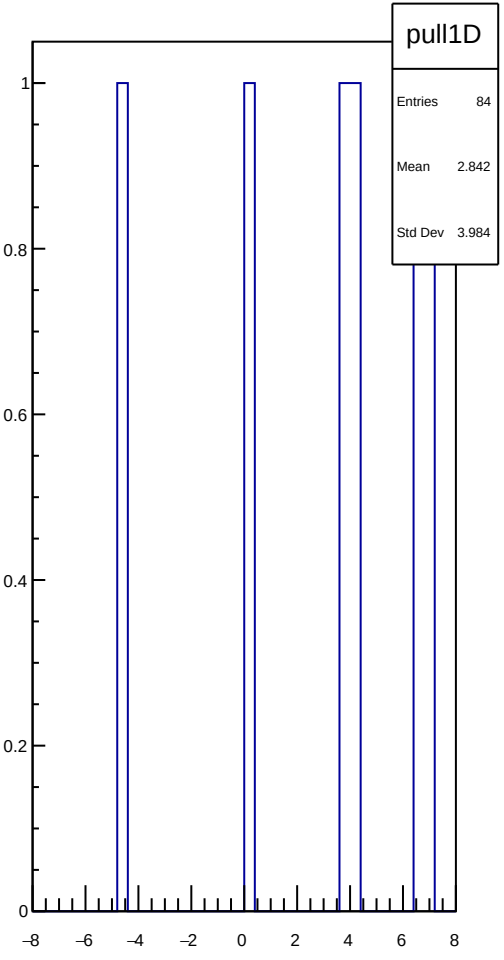

yield_cav4bX_rms vs run
χ² / ndf 4.672e+05 / 83
p0 1.444 ± 0.001341
7
6
5
4
3
2
1

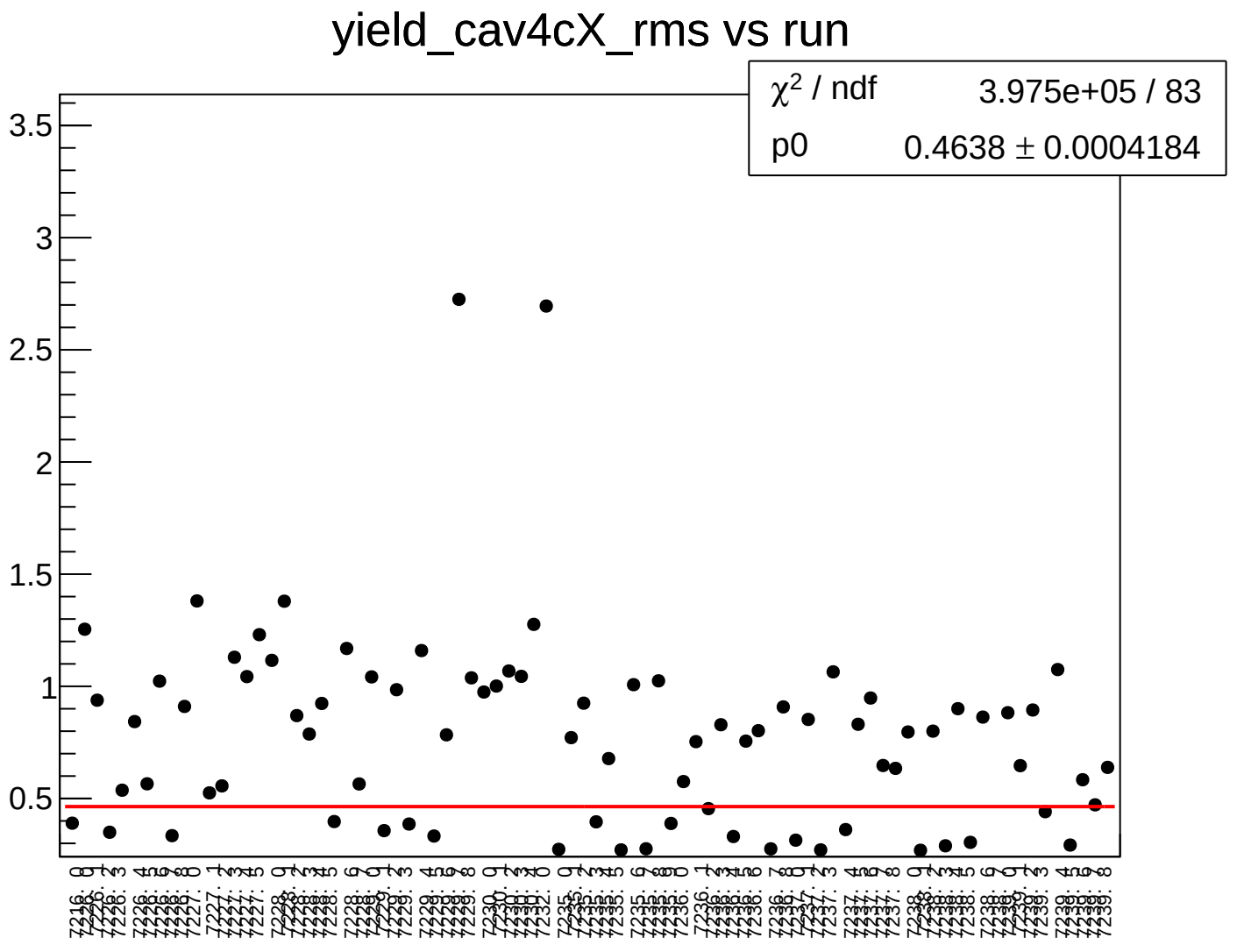

yield_cav4bY_mean vs run
χ² / ndf 5.12e+05 / 83
p0 −61.13 ± 0.0009027
−60
−60.5
−61
−61.5
−62
−62.5
−63
pull
Entries 84
Mean 66.67
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

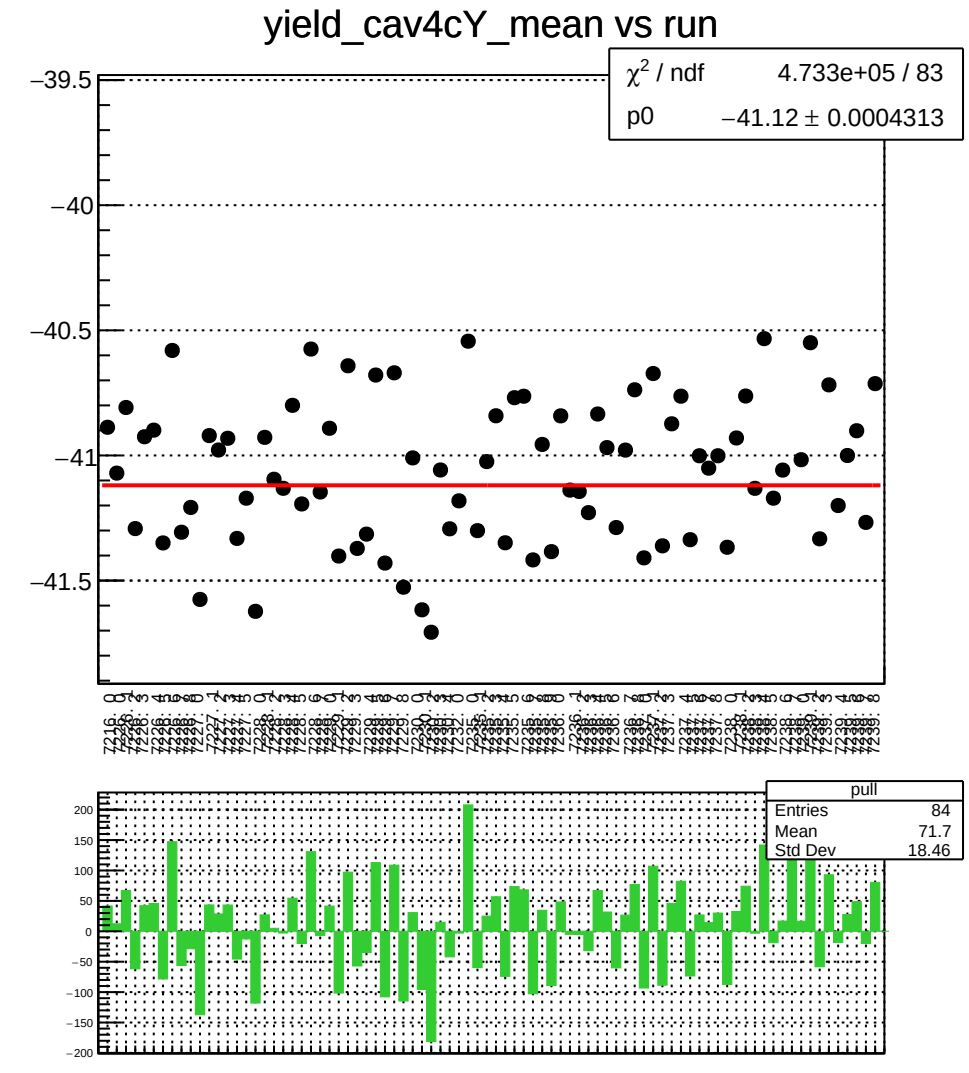

pull1D
Entries 84
Mean 1.398
Std Dev 5.341
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

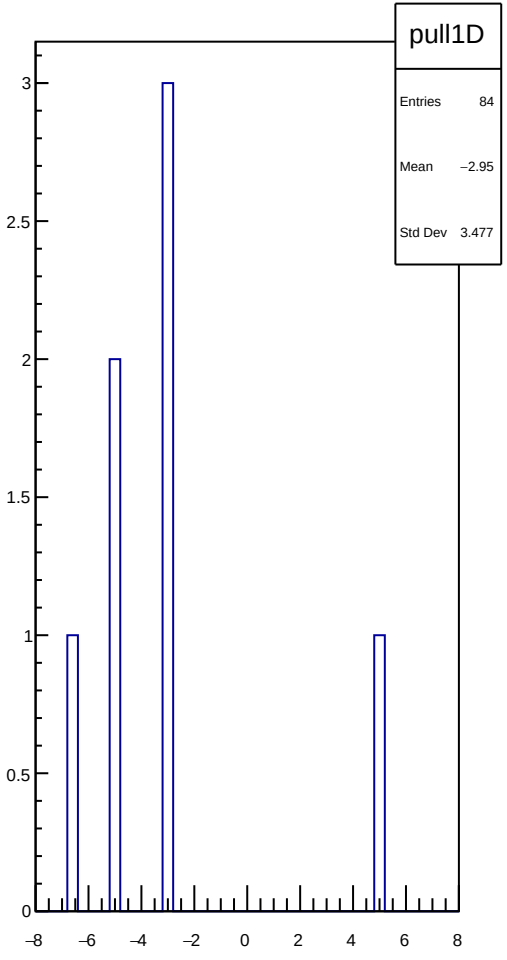

yield_cav4bY_rms vs run
χ² / ndf 1.329e+05 / 83
p0 0.7801 ± 0.0006383
5
4
3
2
1

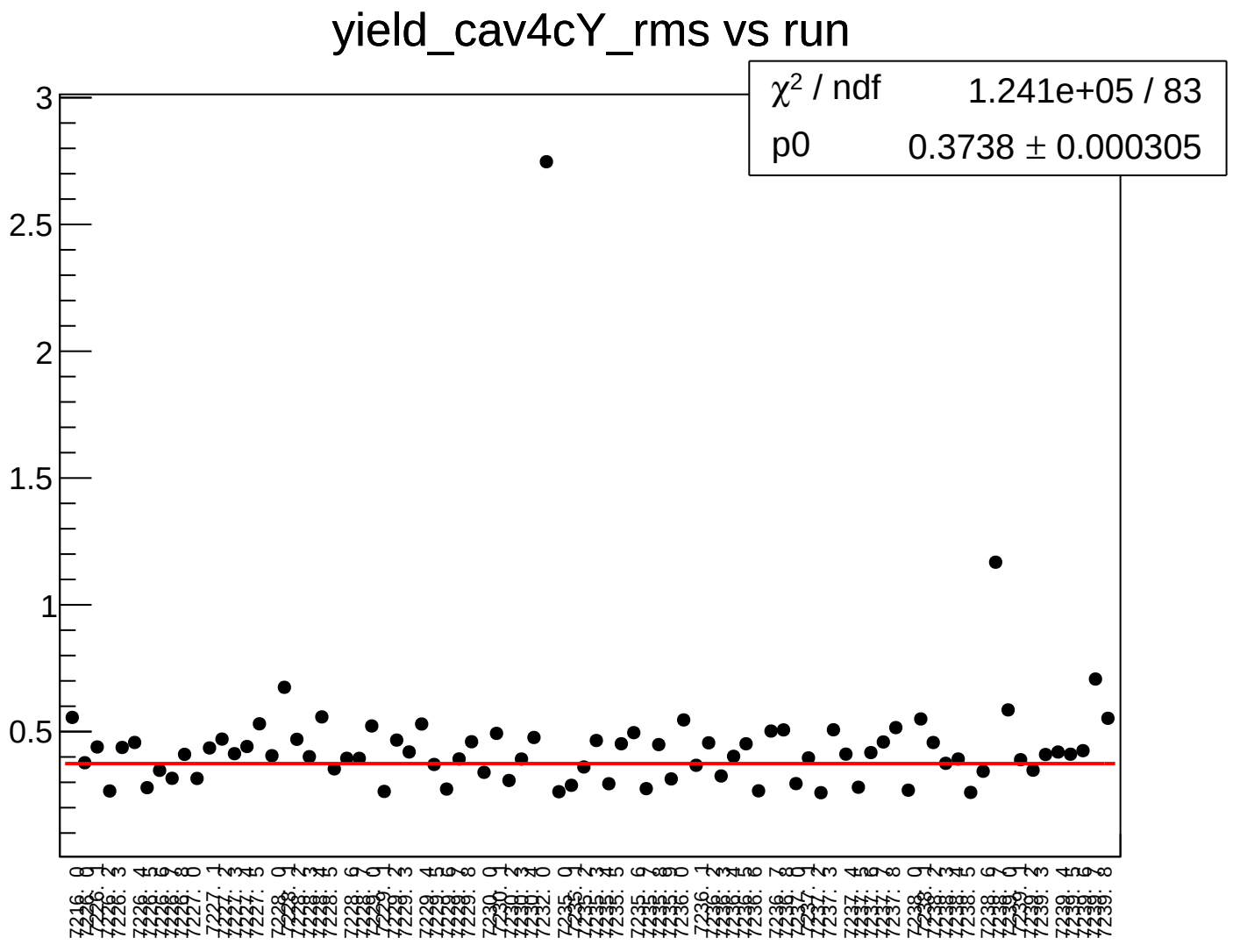

yield_cav4cX_mean vs run
χ² / ndf 4.453e+05 / 83
p0 0.4116 ± 0.0005917
pull
Entries 84
Mean 4.425
Std Dev 0

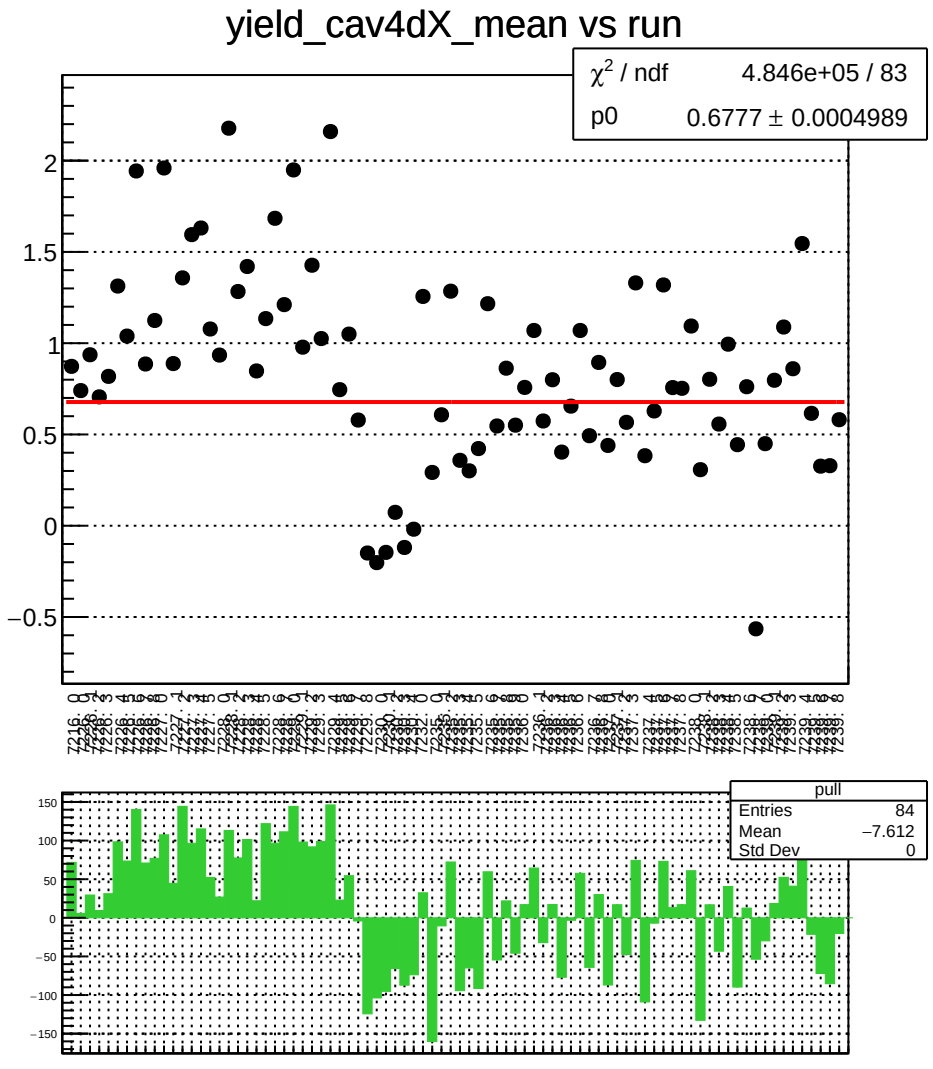

pull1D
Entries 84
Mean 2.842
Std Dev 3.984

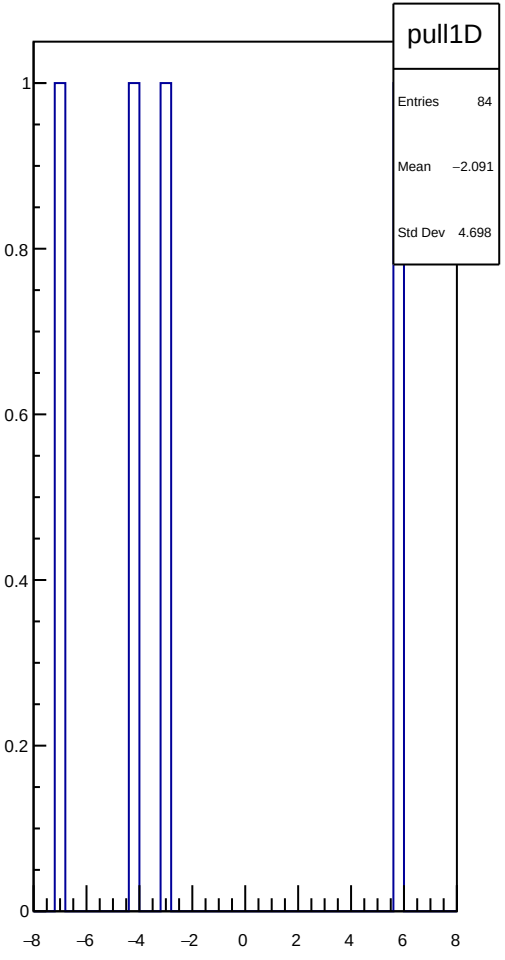

yield_cav4cX_rms vs run
χ² / ndf 3.975e+05 / 83
p0 0.4638 ± 0.0004184
3.5
3
2.5
2
1.5
1
0.5

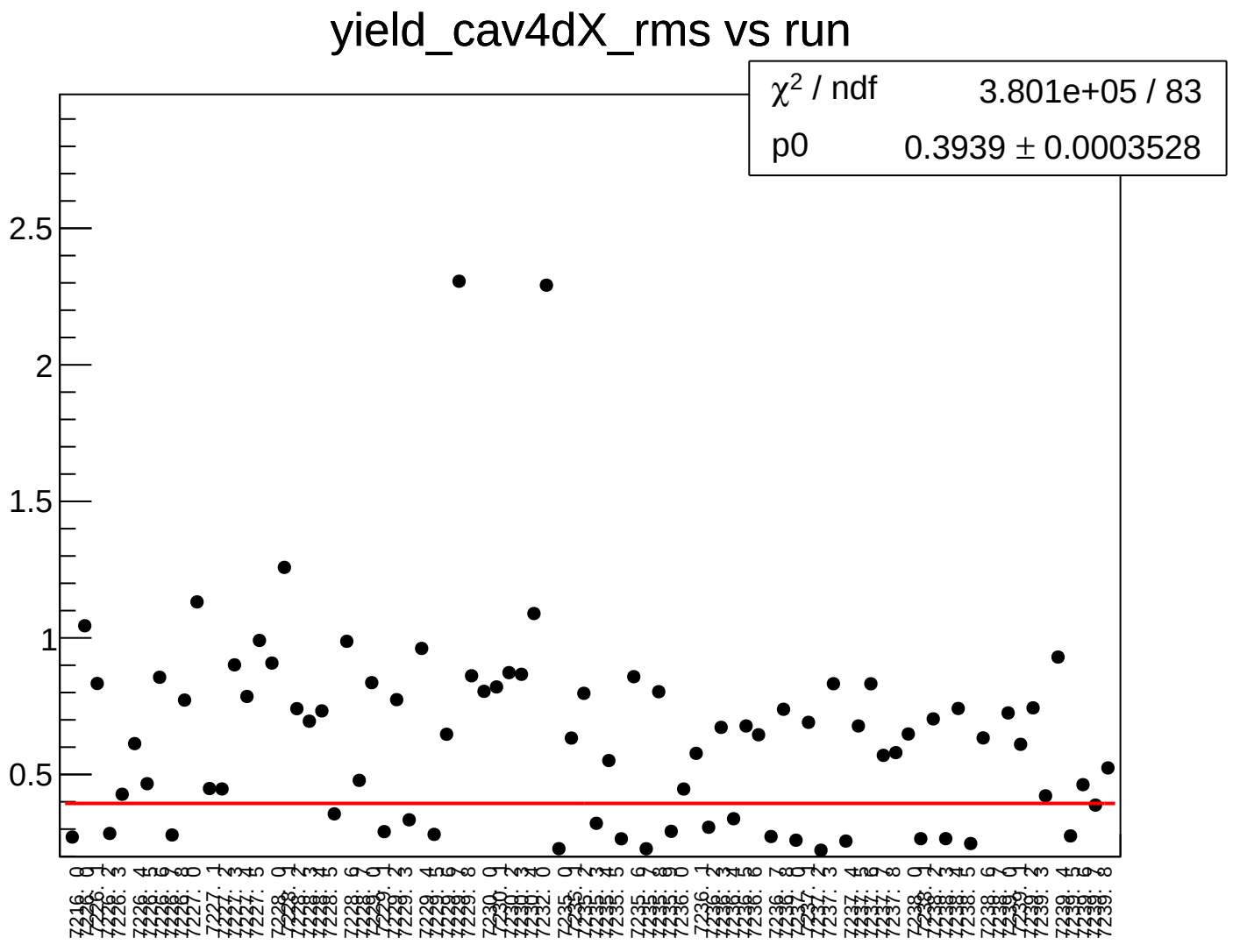

yield_cav4cY_mean vs run
χ² / ndf 4.733e+05 / 83
p0 −41.12 ± 0.0004313
−39.5
−40
−40.5
−41
−41.5
pull
Entries 84
Mean 71.7
Std Dev 18.46
200
150
100
50
0
−50
−100
−150
−200

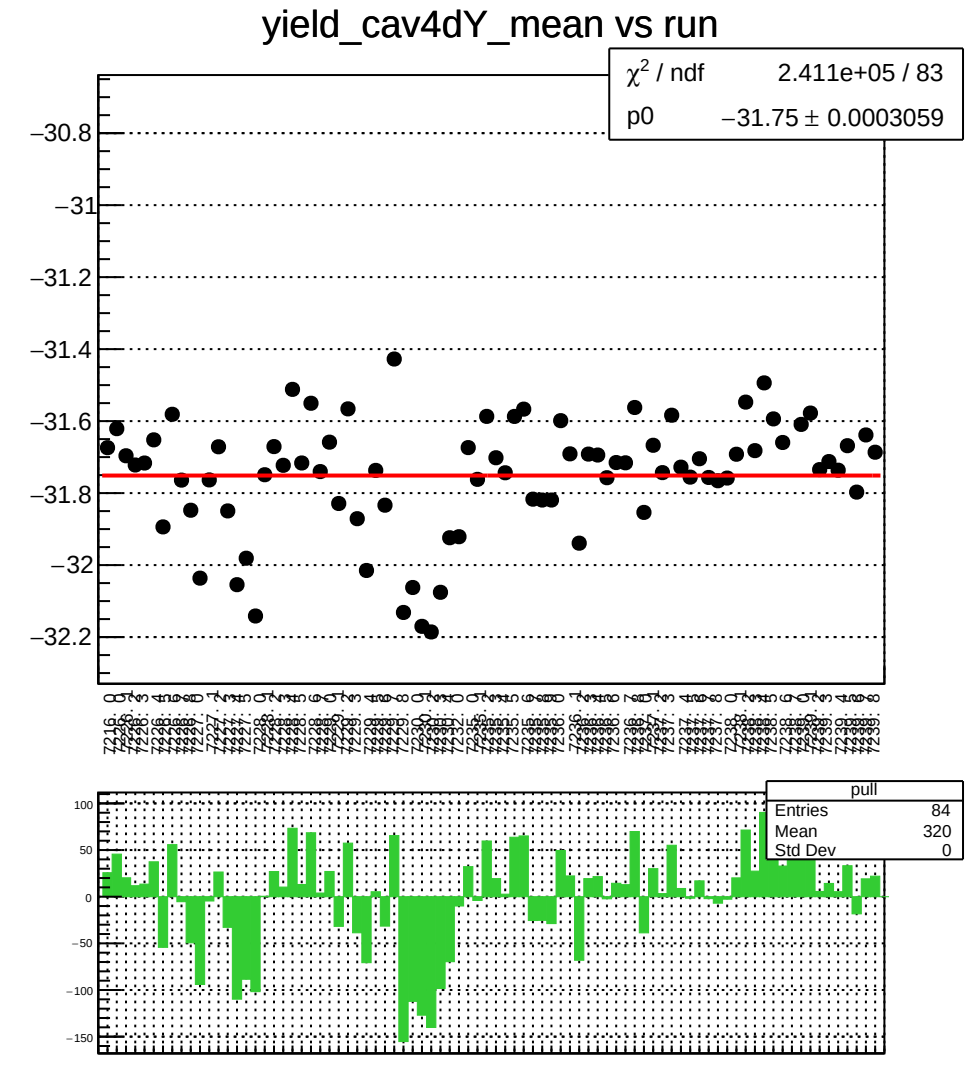

pull1D
Entries 84
Mean −2.95
Std Dev 3.477
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

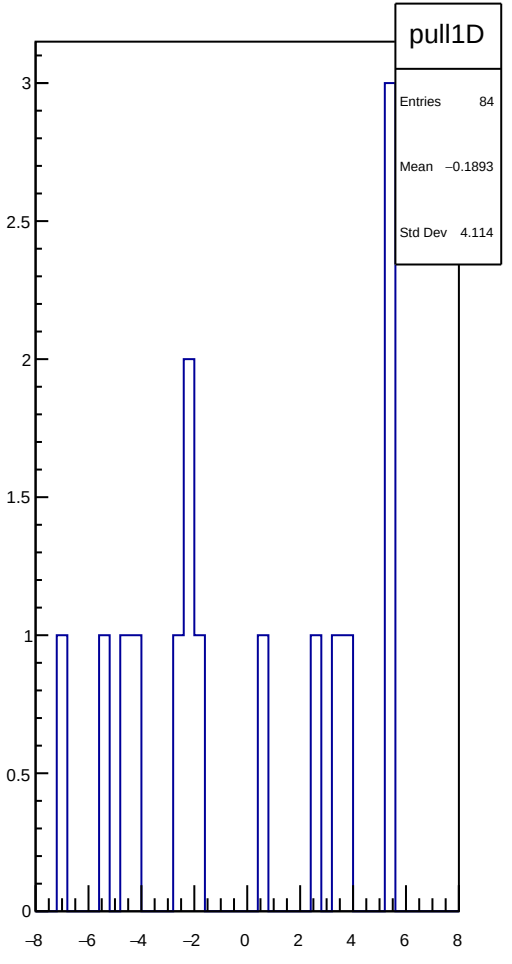

yield_cav4cY_rms vs run
χ² / ndf 1.241e+05 / 83
p0 0.3738 ± 0.000305
3
2.5
2
1.5
1
0.5

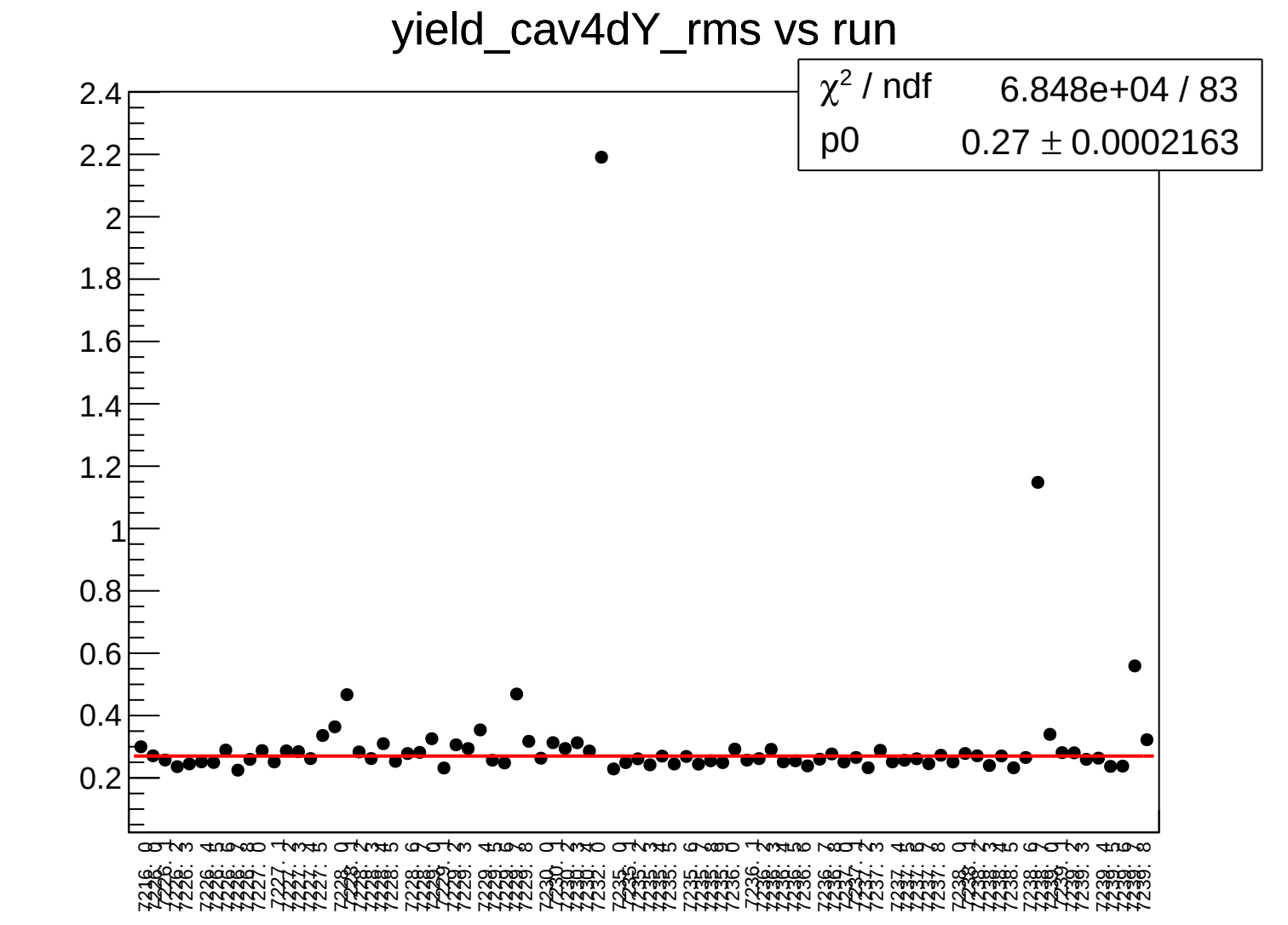

yield_cav4dX_mean vs run
χ² / ndf 4.846e+05 / 83
p0 0.6777 ± 0.0004989
pull
Entries 84
Mean −7.612
Std Dev 0

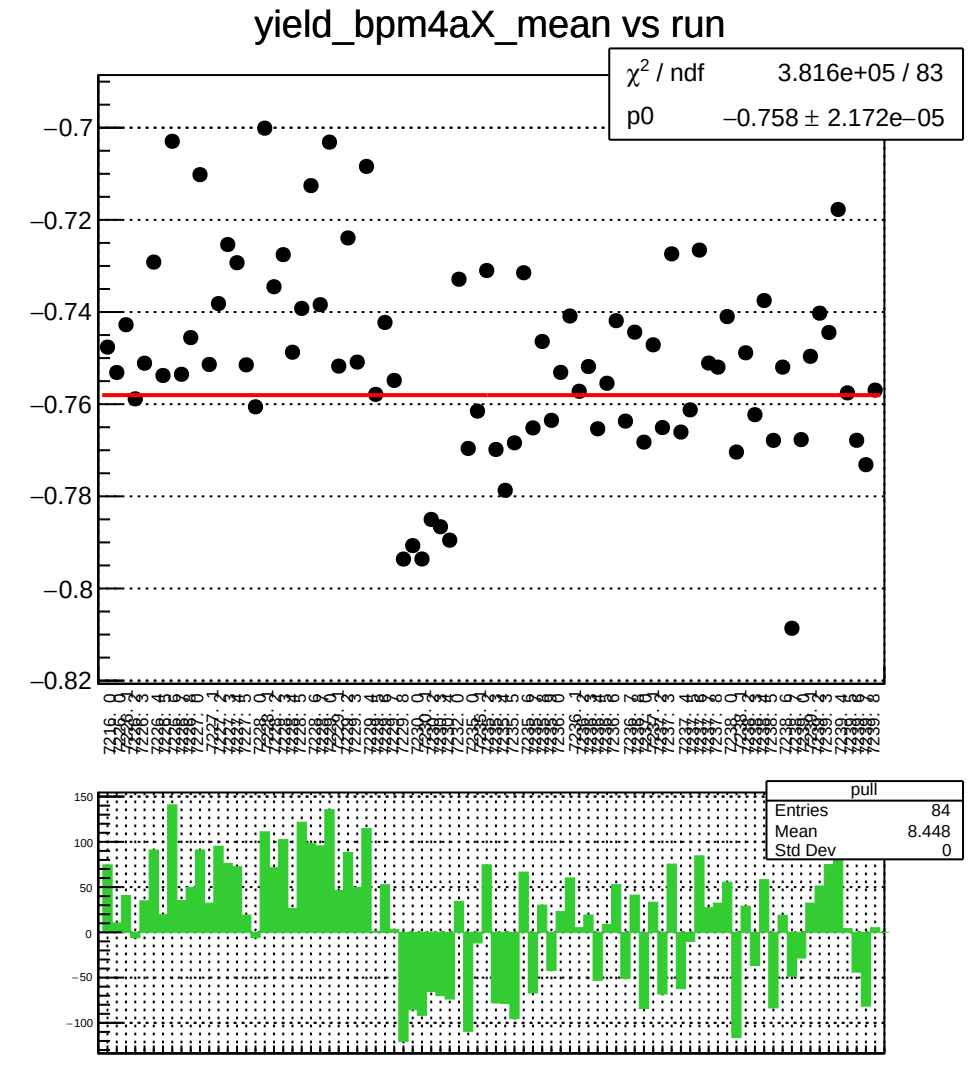

pull1D
Entries 84
Mean −2.091
Std Dev 4.698

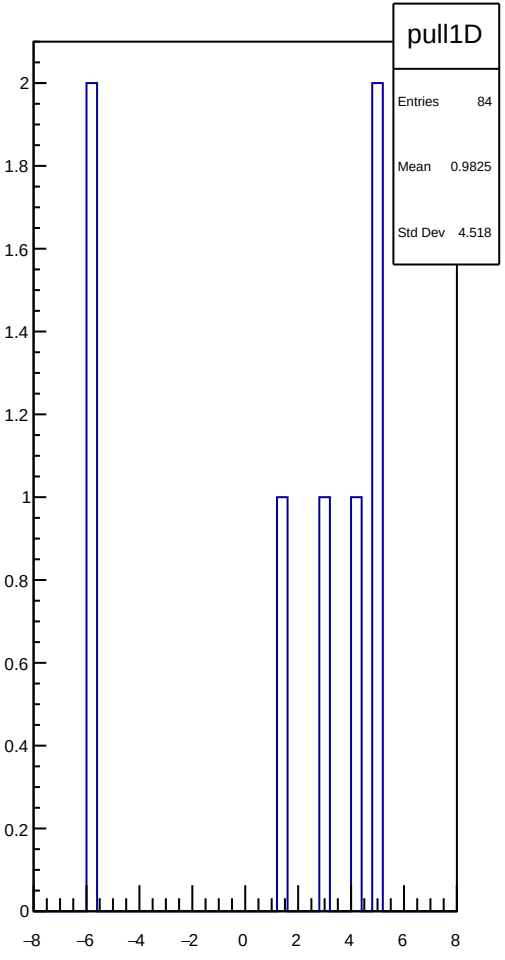

yield_cav4dX_rms vs run
χ² / ndf 3.801e+05 / 83
p0 0.3939 ± 0.0003528
2.5
2
1.5
1
0.5

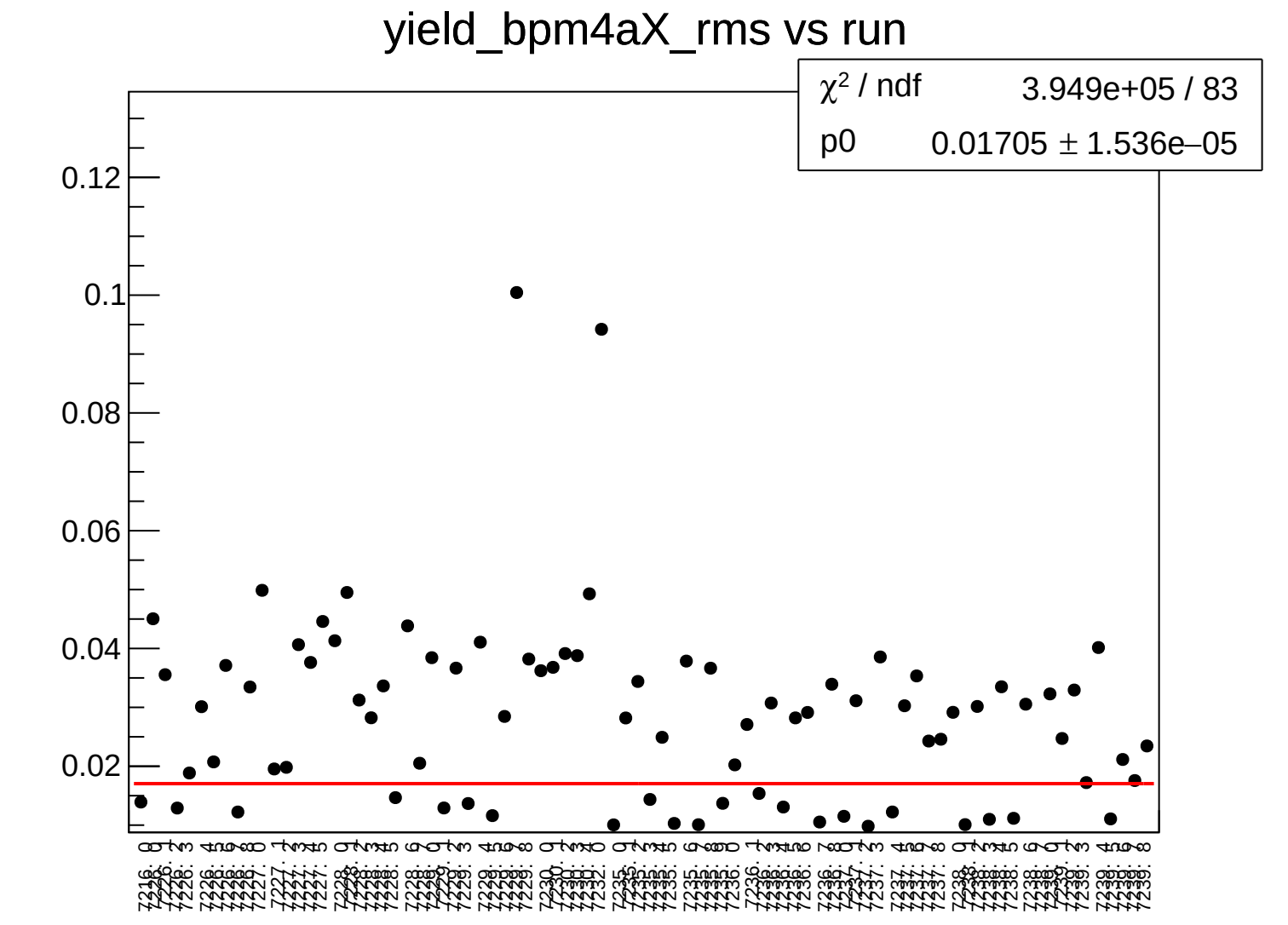

yield_cav4dY_mean vs run
χ² / ndf 2.411e+05 / 83
p0 −31.75 ± 0.0003059
−30.8
−31
−31.2
−31.4
−31.6
−31.8
−32
−32.2
pull
Entries 84
Mean 320
Std Dev 0
100
50
0
−50
−100
−150

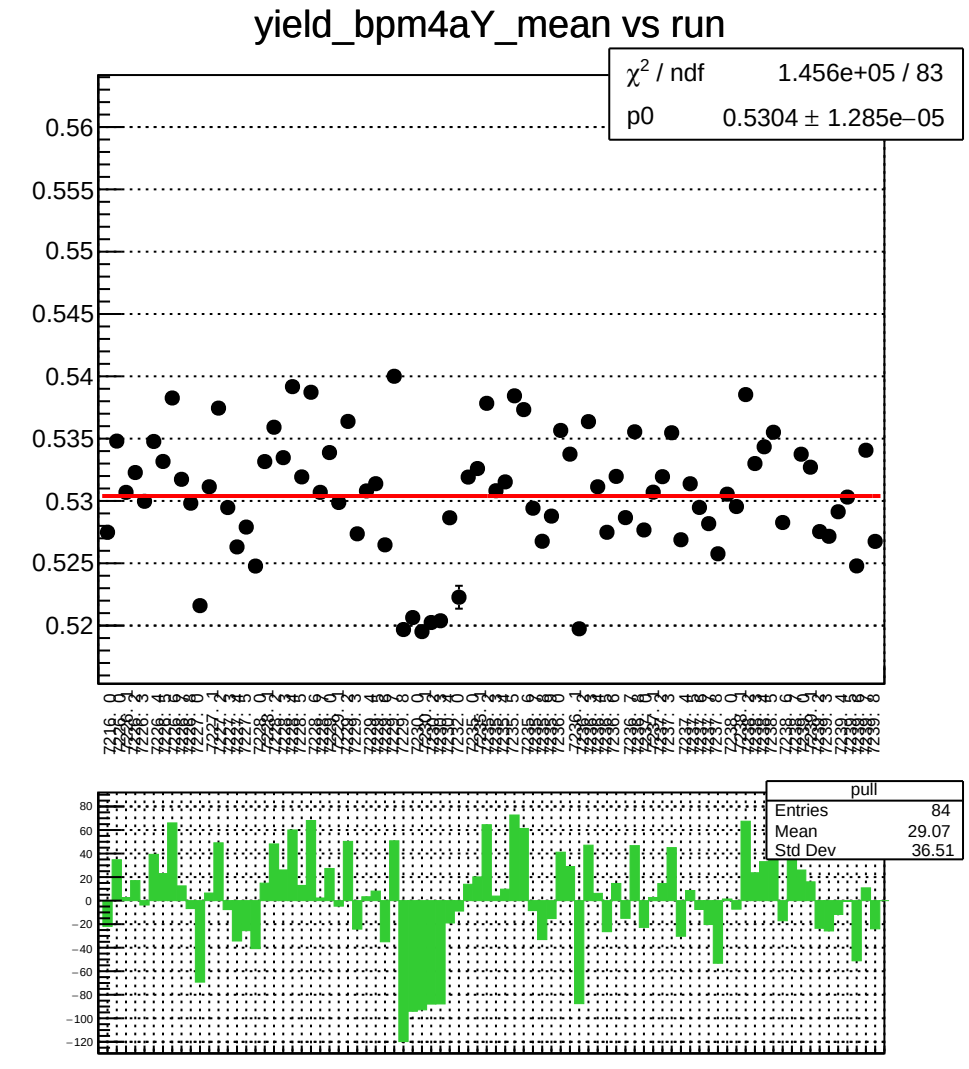

pull1D
Entries 84
Mean −0.1893
Std Dev 4.114
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

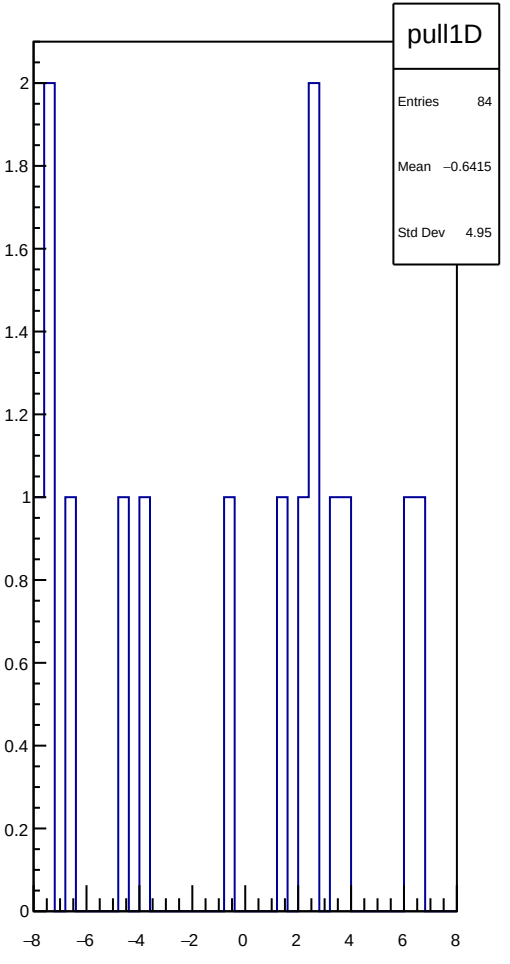

yield_cav4dY_rms vs run
χ^2 / ndf 6.848e+04 / 83
p0 0.27 ± 0.0002163
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

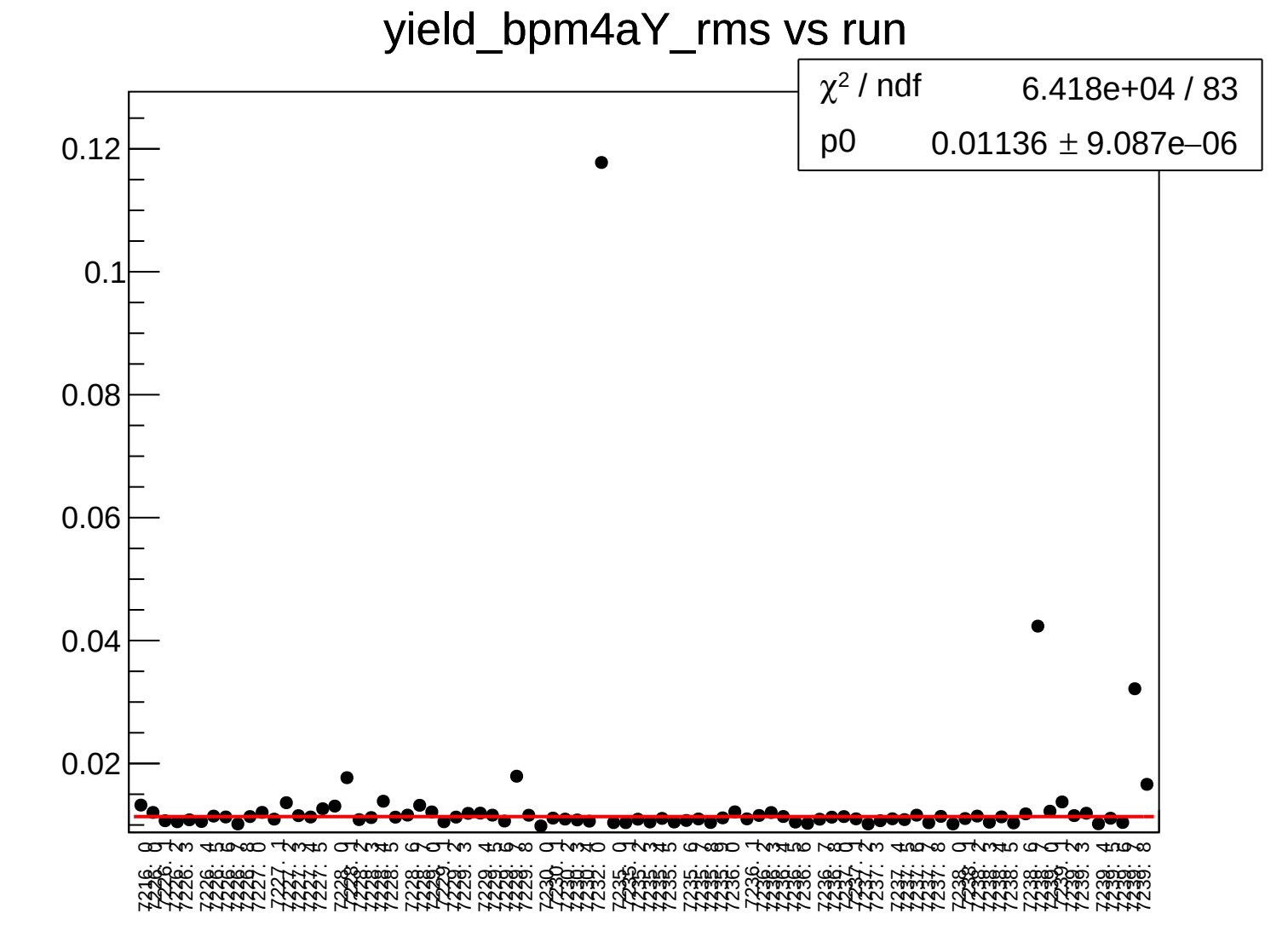

yield_bpm4aX_mean vs run
χ² / ndf 3.816e+05 / 83
p0 −0.758 ± 2.172e−05
−0.7
−0.72
−0.74
−0.76
−0.78
−0.8
−0.82
pull
Entries 84
Mean 8.448
Std Dev 0
150
100
50
0
−50
−100

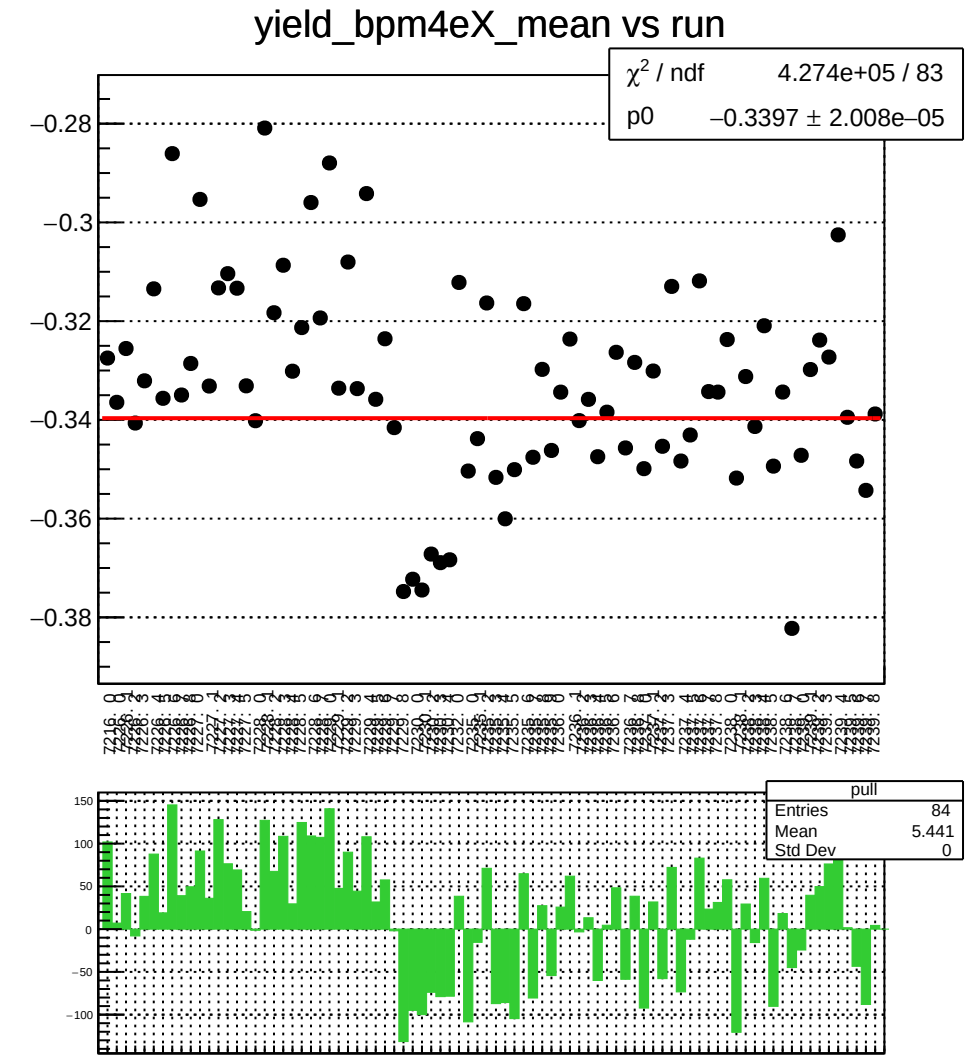

pull1D
Entries 84
Mean 0.9825
Std Dev 4.518
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

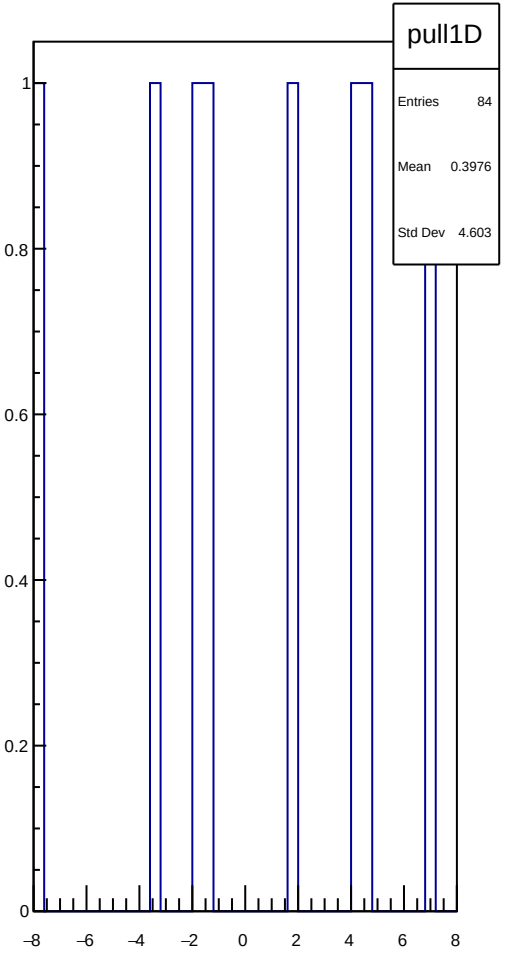

yield_bpm4aX_rms vs run
χ² / ndf 3.949e+05 / 83
p0 0.01705 ± 1.536e–05
0.12
0.1
0.08
0.06
0.04
0.02

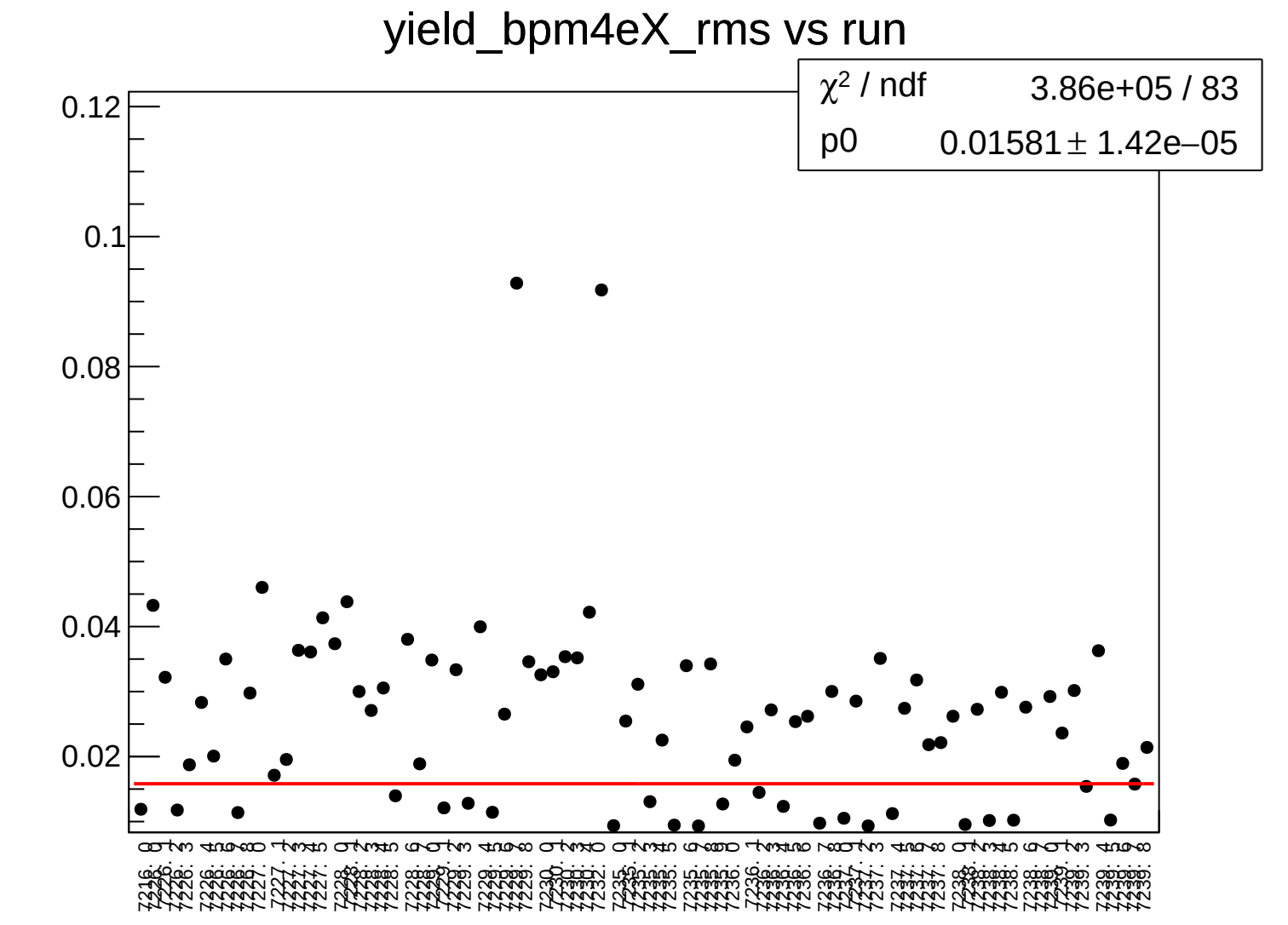

yield_bpm4aY_mean vs run
χ² / ndf 1.456e+05 / 83
p0 0.5304 ± 1.285e−05
0.56
0.555
0.55
0.545
0.54
0.535
0.53
0.525
0.52
pull
Entries 84
Mean 29.07
Std Dev 36.51
80
60
40
20
0
−20
−40
−60
−80
−100
−120

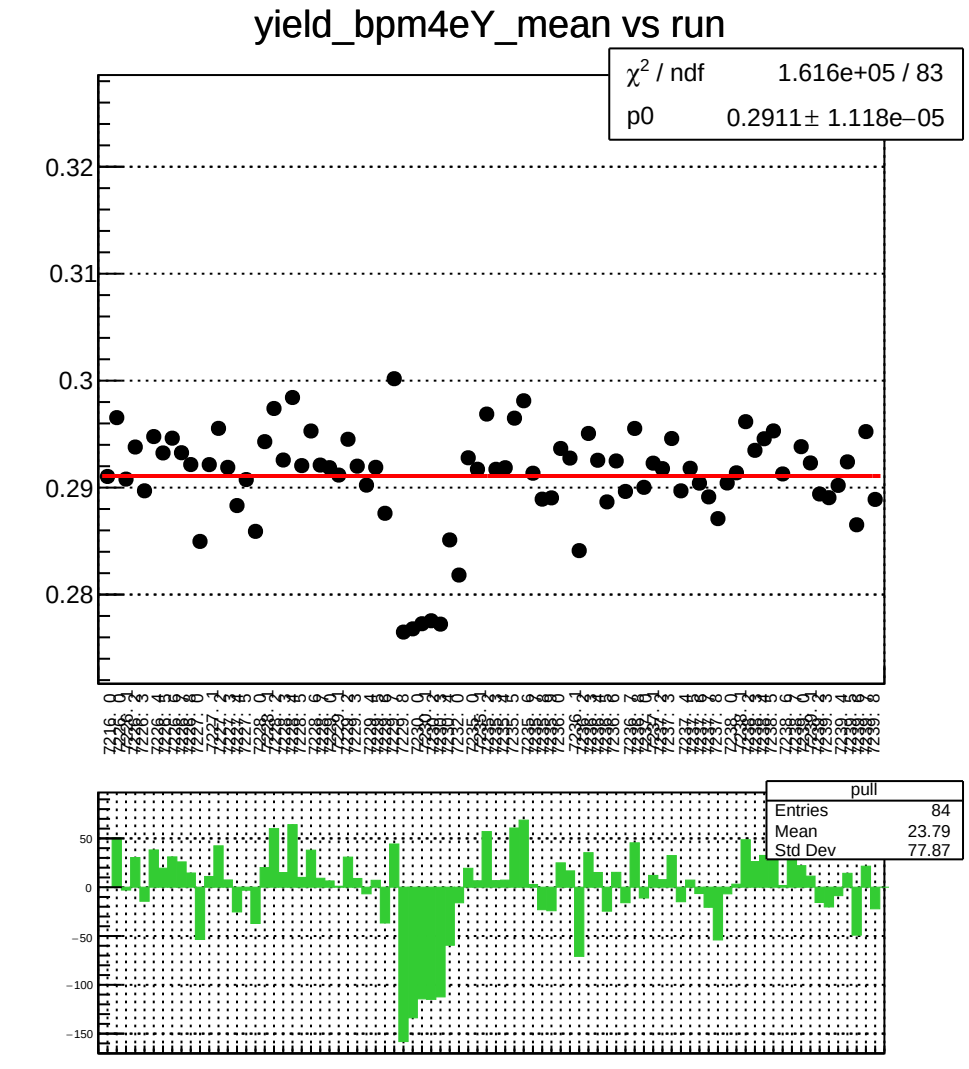

pull1D
Entries 84
Mean −0.6415
Std Dev 4.95
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

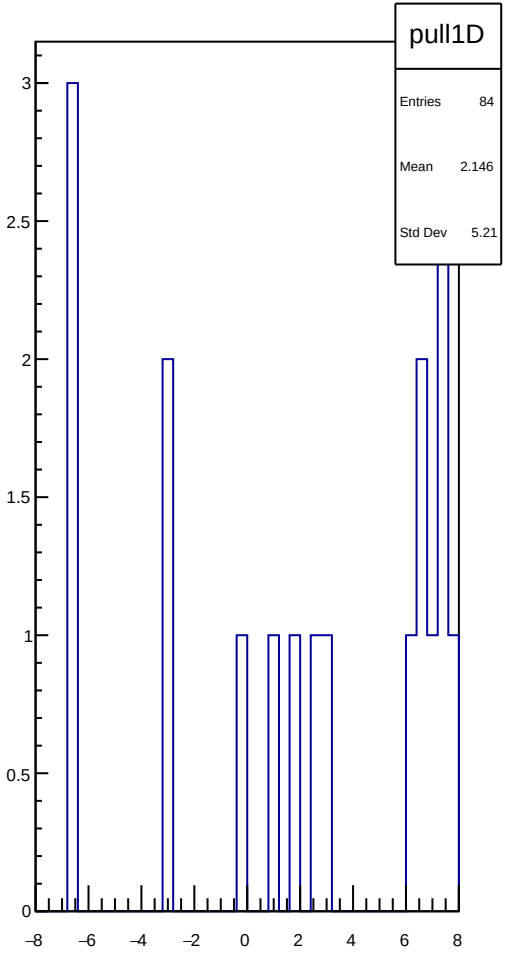

yield_bpm4aY_rms vs run
χ² / ndf 6.418e+04 / 83
p0 0.01136 ± 9.087e–06
0.12
0.1
0.08
0.06
0.04
0.02

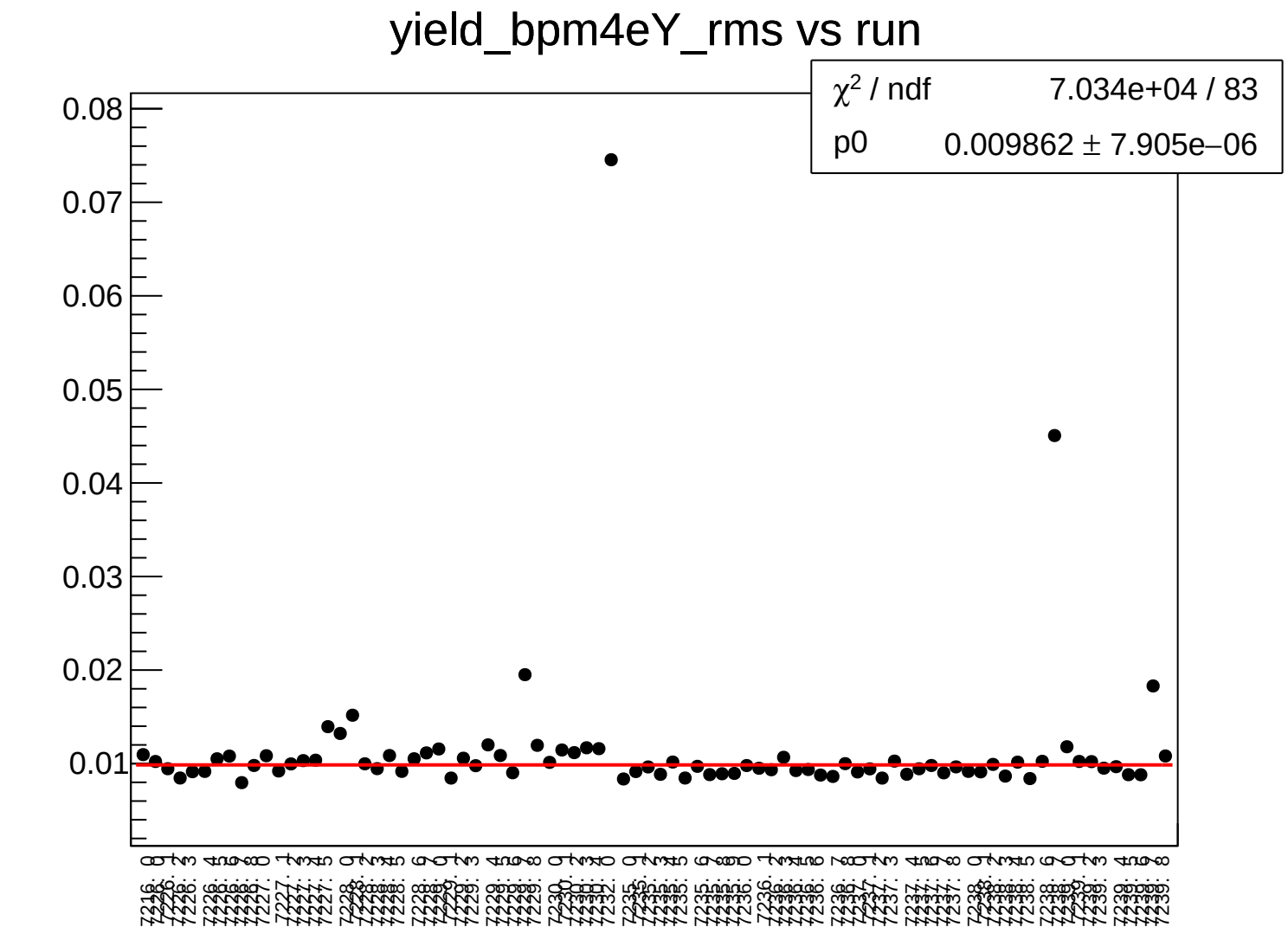

yield_bpm4eX_mean vs run
χ² / ndf 4.274e+05 / 83
p0 −0.3397 ± 2.008e−05
−0.28
−0.3
−0.32
−0.34
−0.36
−0.38
pull
Entries 84
Mean 5.441
Std Dev 0
150
100
50
0
−50
−100

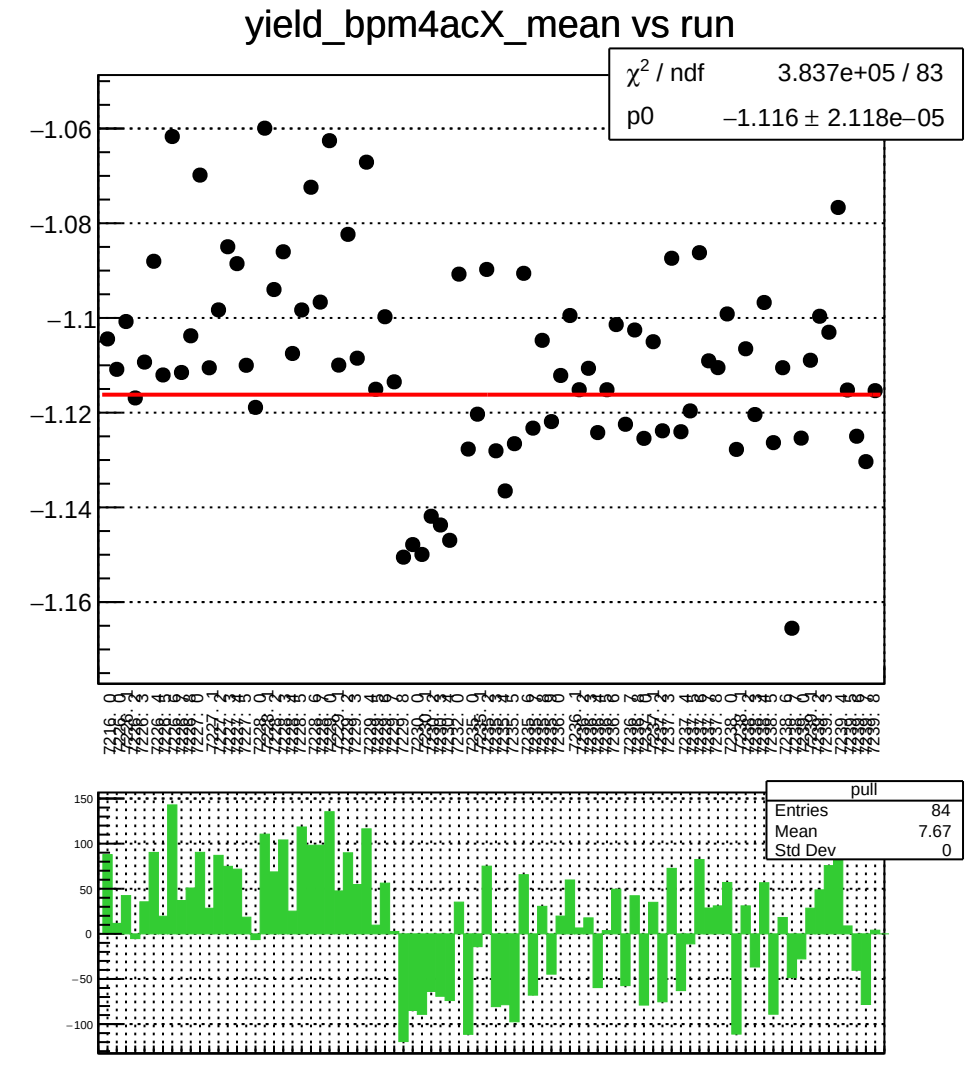

pull1D
Entries 84
Mean 0.3976
Std Dev 4.603
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

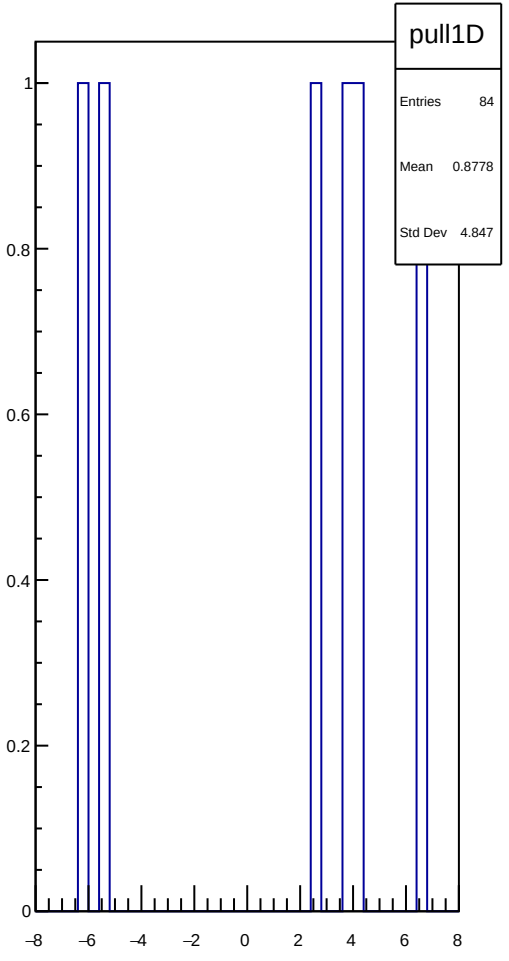

yield_bpm4eX_rms vs run
χ² / ndf 3.86e+05 / 83
p0 0.01581 ± 1.42e−05
0.12
0.1
0.08
0.06
0.04
0.02

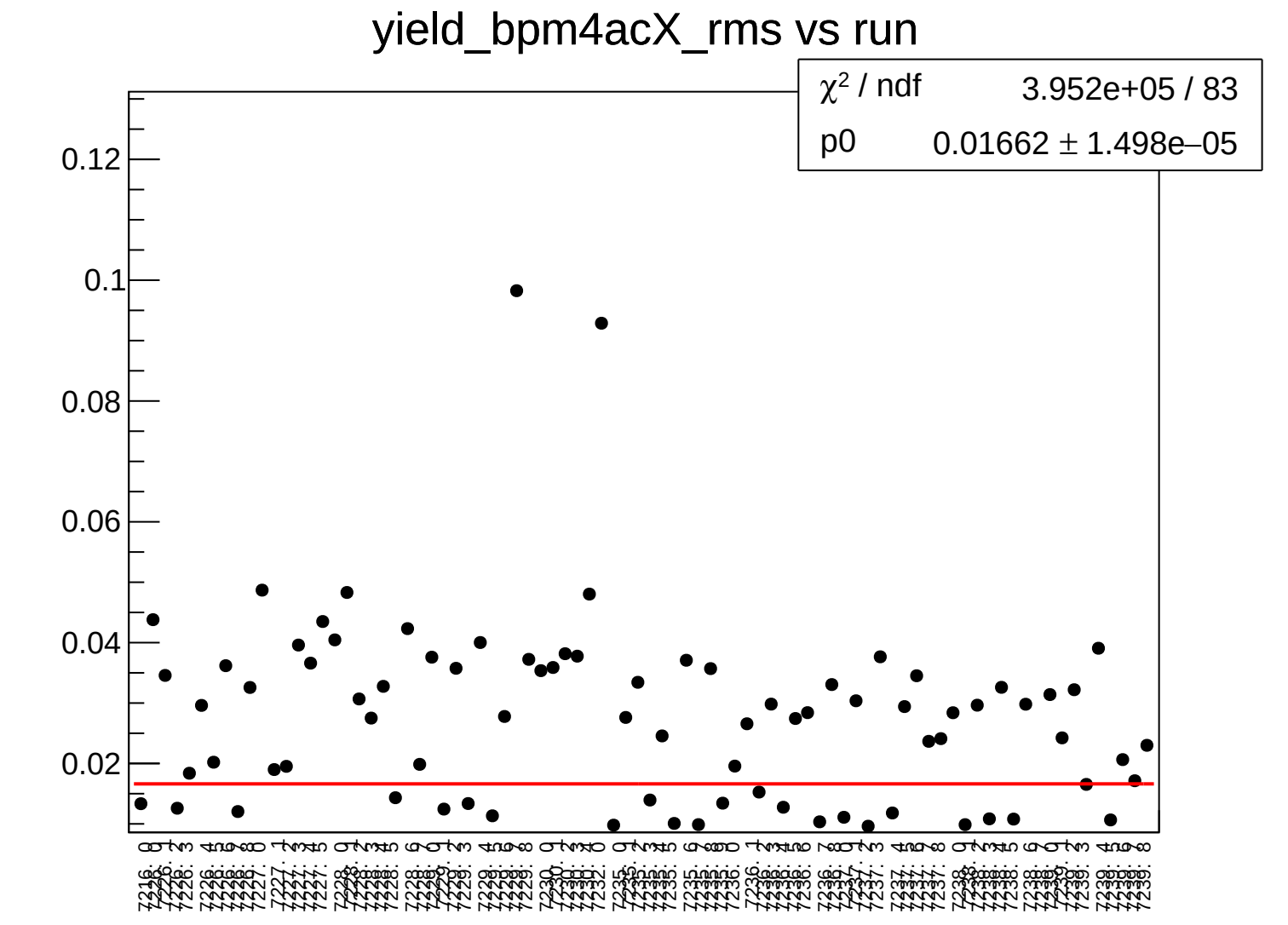

yield_bpm4eY_mean vs run
χ² / ndf 1.616e+05 / 83
p0 0.2911 ± 1.118e−05
0.32
0.31
0.3
0.29
0.28
pull
Entries 84
Mean 23.79
Std Dev 77.87
50
0
−50
−100
−150

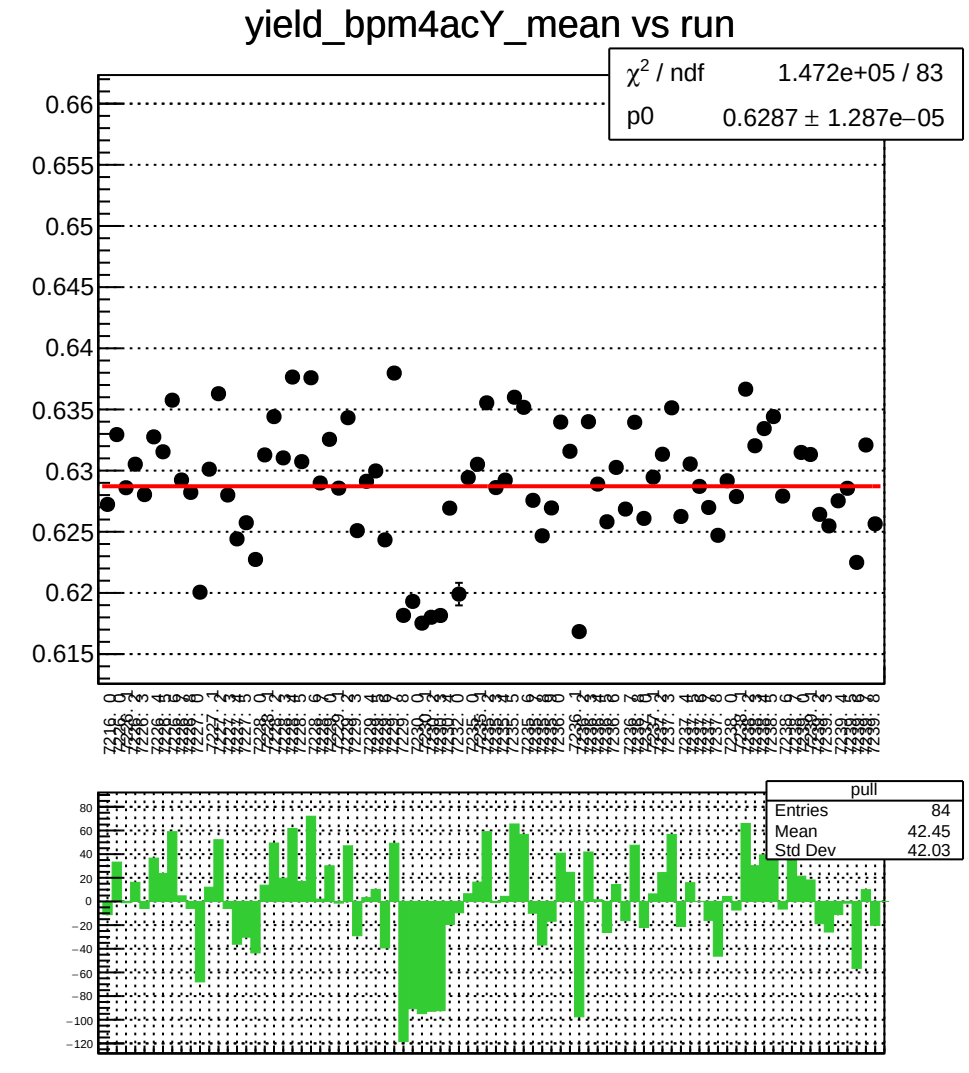

pull1D
Entries 84
Mean 2.146
Std Dev 5.21
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

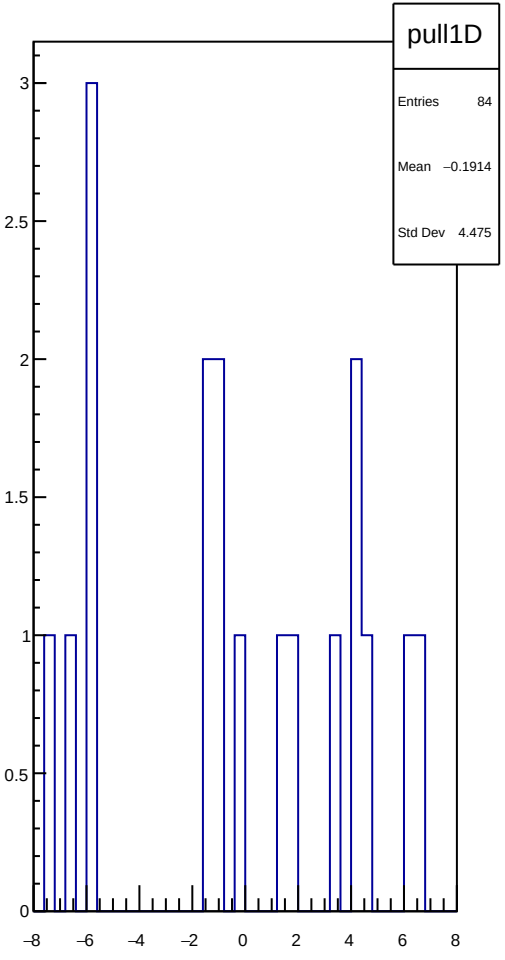

yield_bpm4eY_rms vs run
χ² / ndf 7.034e+04 / 83
p0 0.009862 ± 7.905e−06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

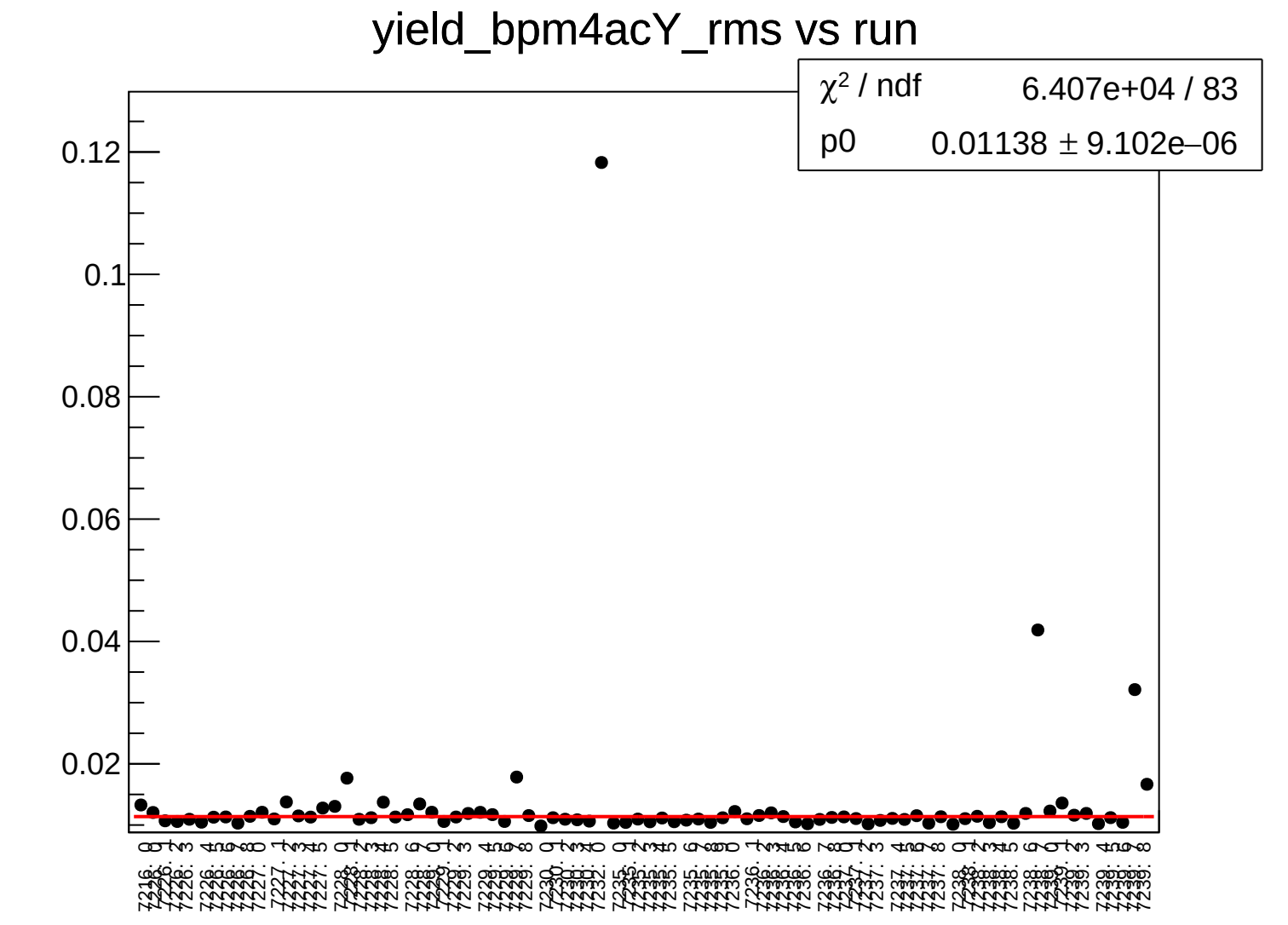

yield_bpm4acX_mean vs run
χ² / ndf 3.837e+05 / 83
p0 −1.116 ± 2.118e−05
−1.06
−1.08
−1.1
−1.12
−1.14
−1.16
pull
Entries 84
Mean 7.67
Std Dev 0
150
100
50
0
−50
−100

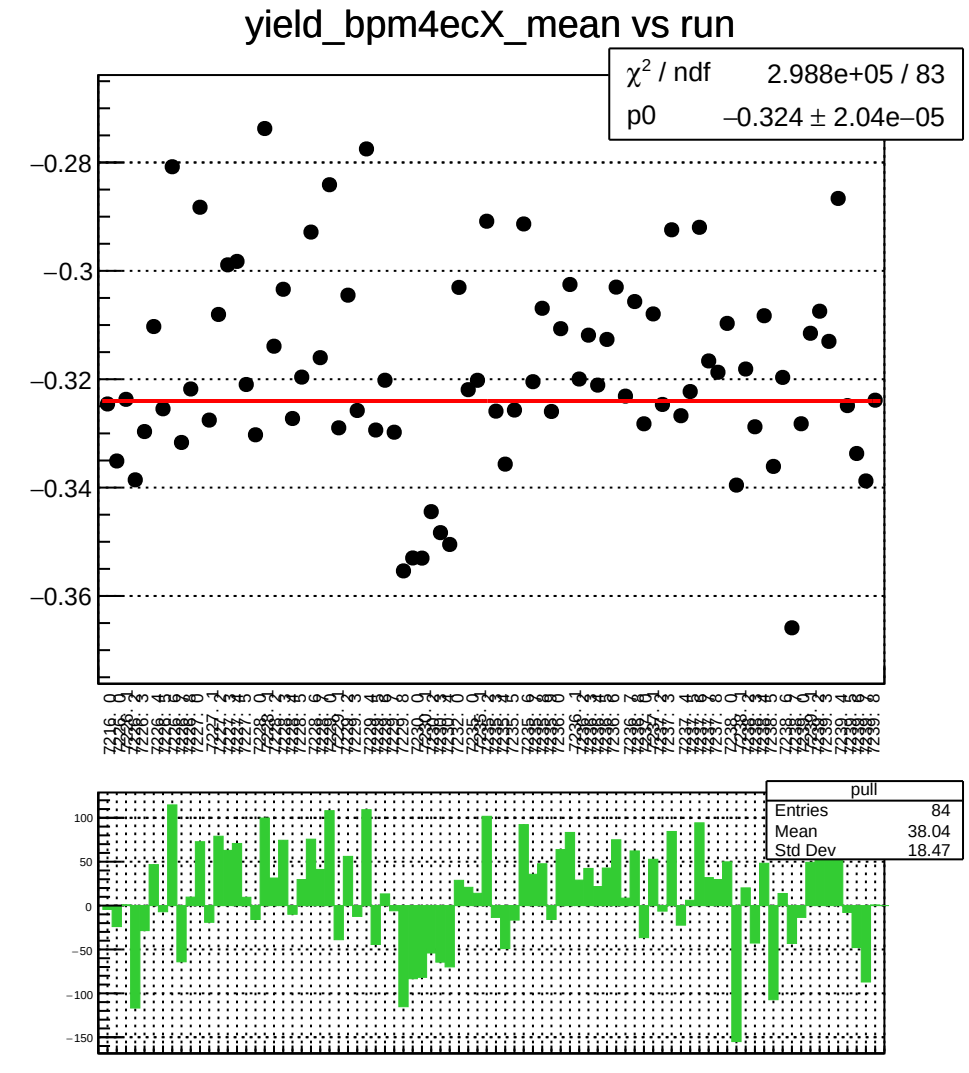

pull1D
Entries 84
Mean 0.8778
Std Dev 4.847
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

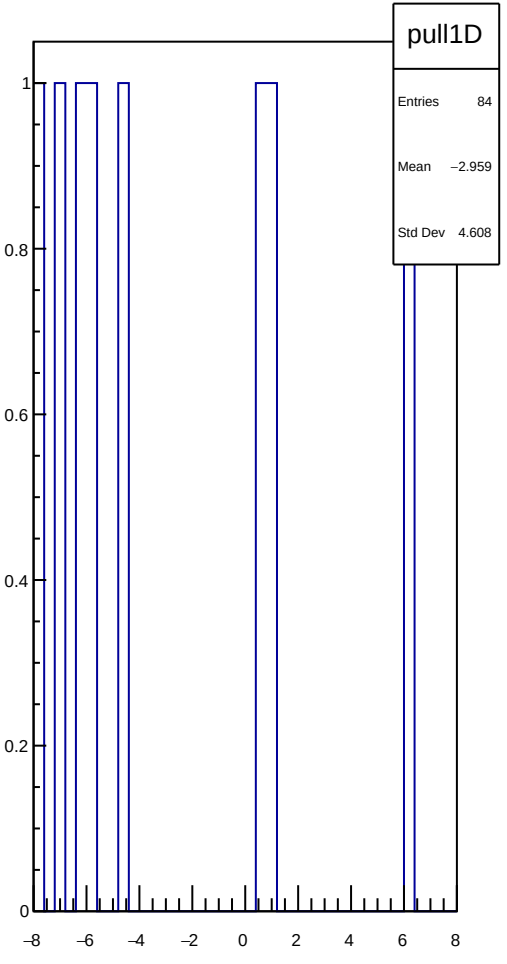

yield_bpm4acX_rms vs run
χ² / ndf 3.952e+05 / 83
p0 0.01662 ± 1.498e–05
0.12
0.1
0.08
0.06
0.04
0.02

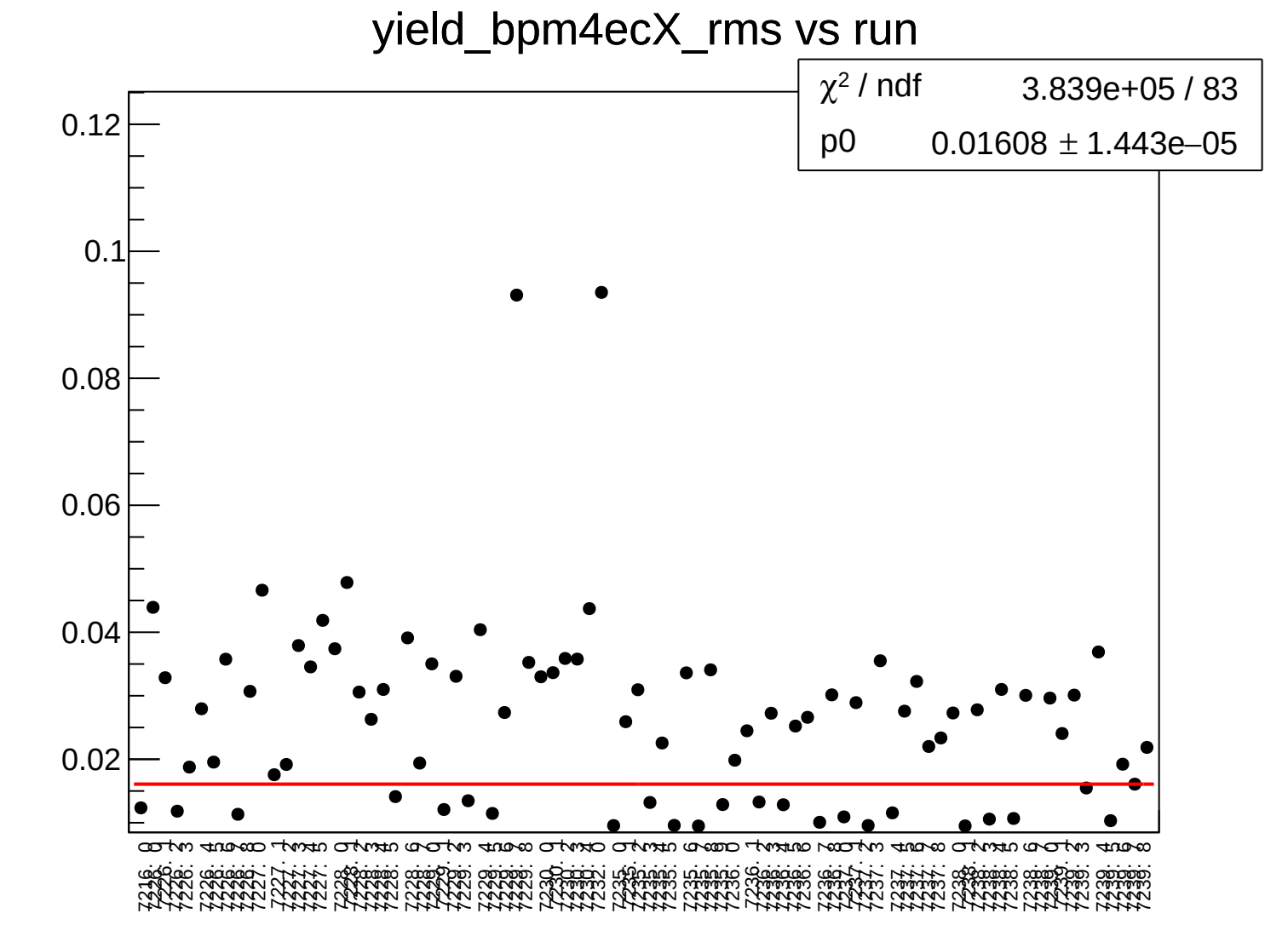

yield_bpm4acY_mean vs run
χ² / ndf 1.472e+05 / 83
p0 0.6287 ± 1.287e−05
pull
Entries 84
Mean 42.45
Std Dev 42.03

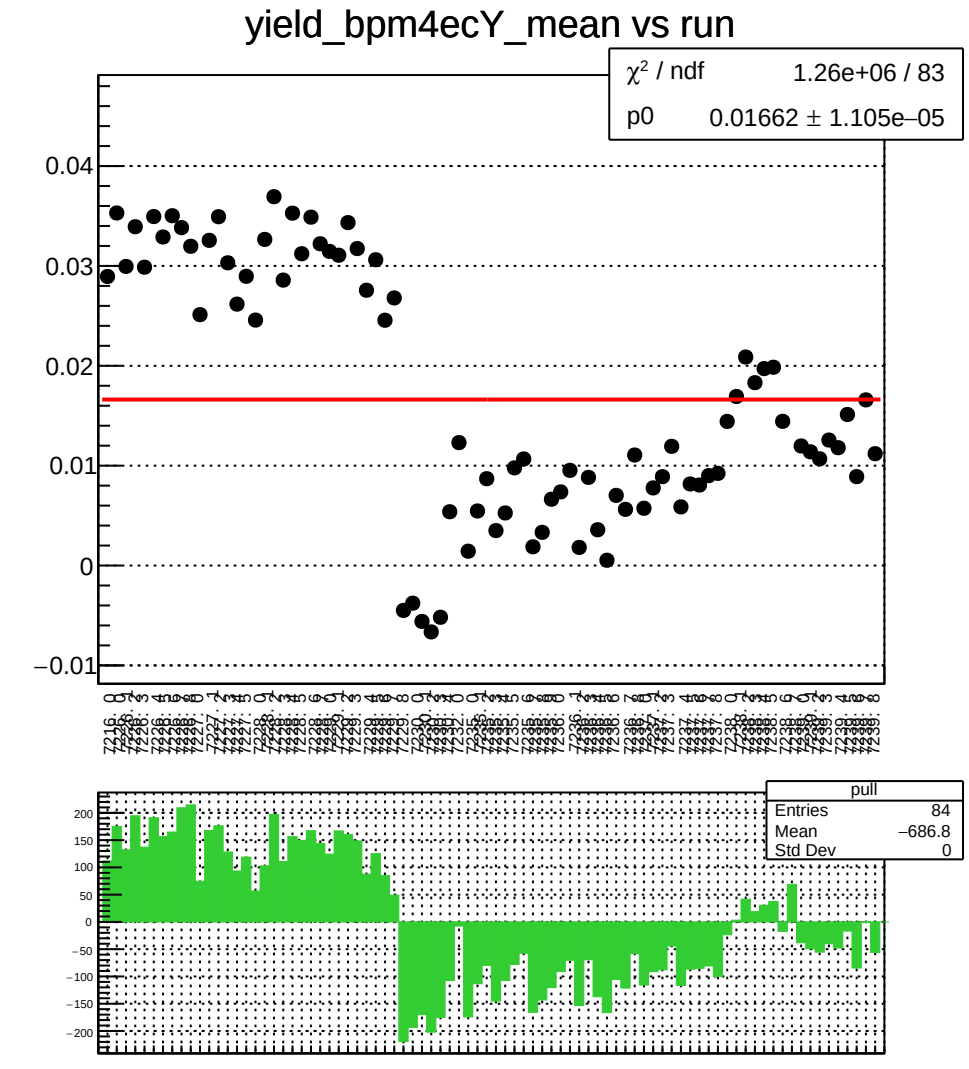

pull1D
Entries 84
Mean −0.1914
Std Dev 4.475

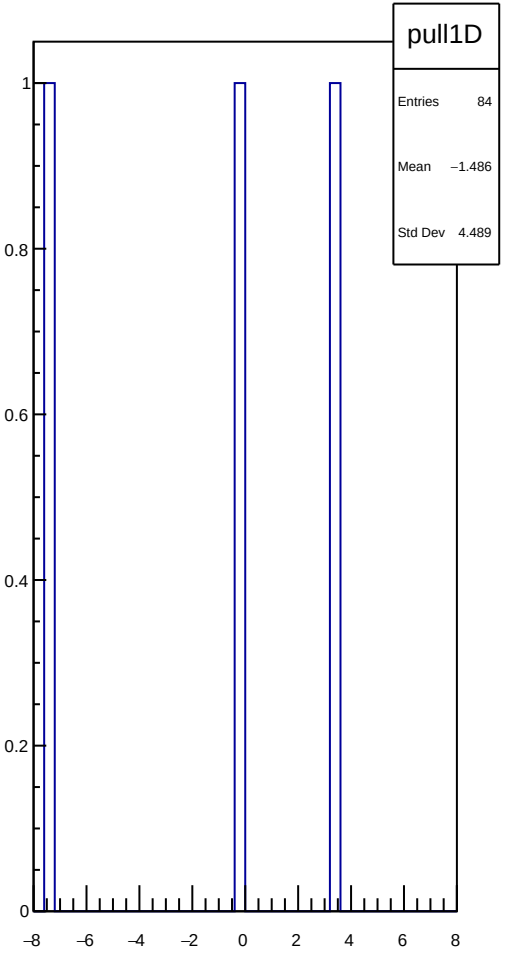

yield_bpm4acY_rms vs run
χ² / ndf 6.407e+04 / 83
p0 0.01138 ± 9.102e–06
0.12
0.1
0.08
0.06
0.04
0.02

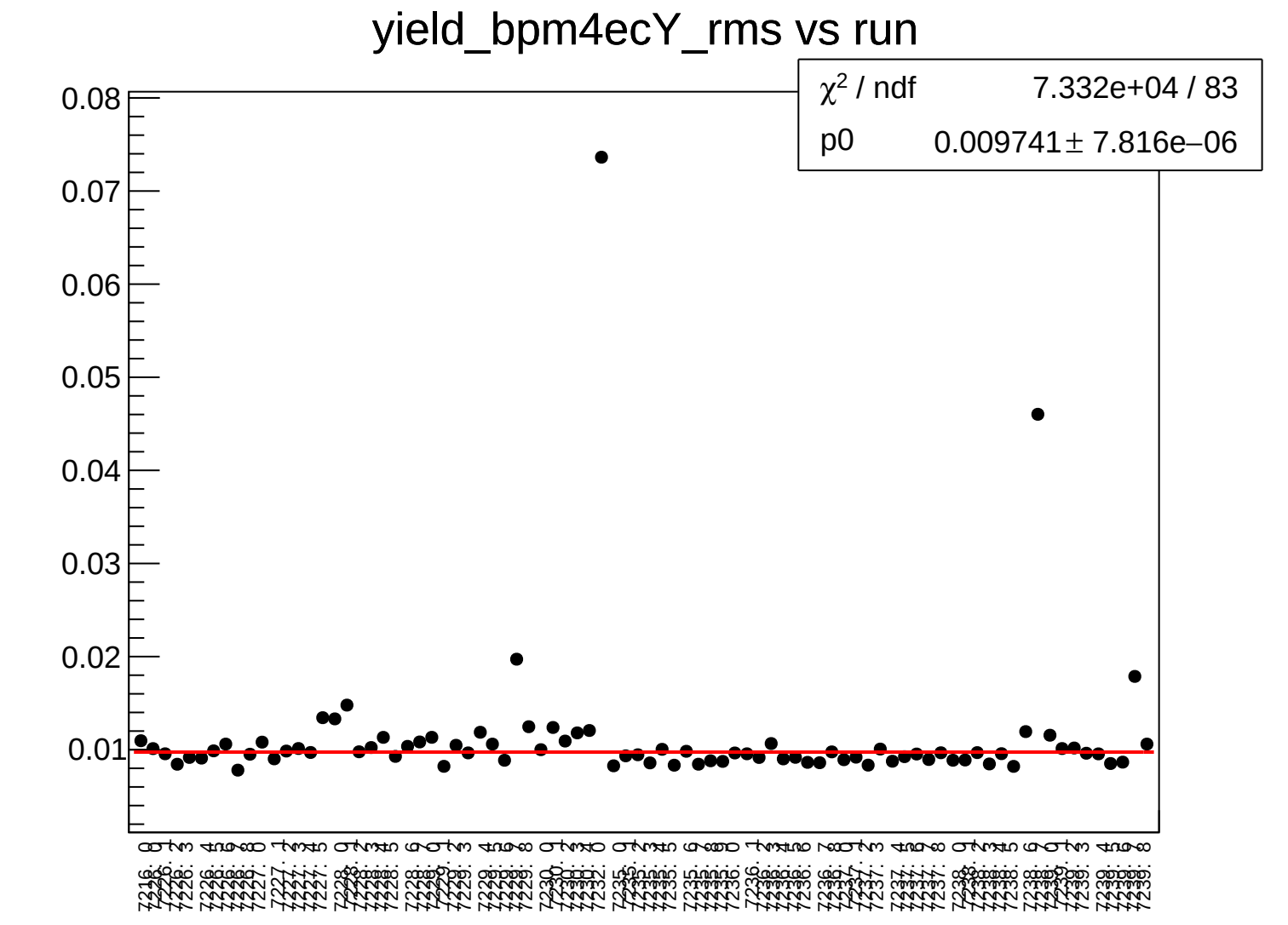

yield_bpm4ecX_mean vs run
χ² / ndf 2.988e+05 / 83
p0 –0.324 ± 2.04e–05
–0.28
–0.3
–0.32
–0.34
–0.36
pull
Entries 84
Mean 38.04
Std Dev 18.47
100
50
0
–50
–100
–150

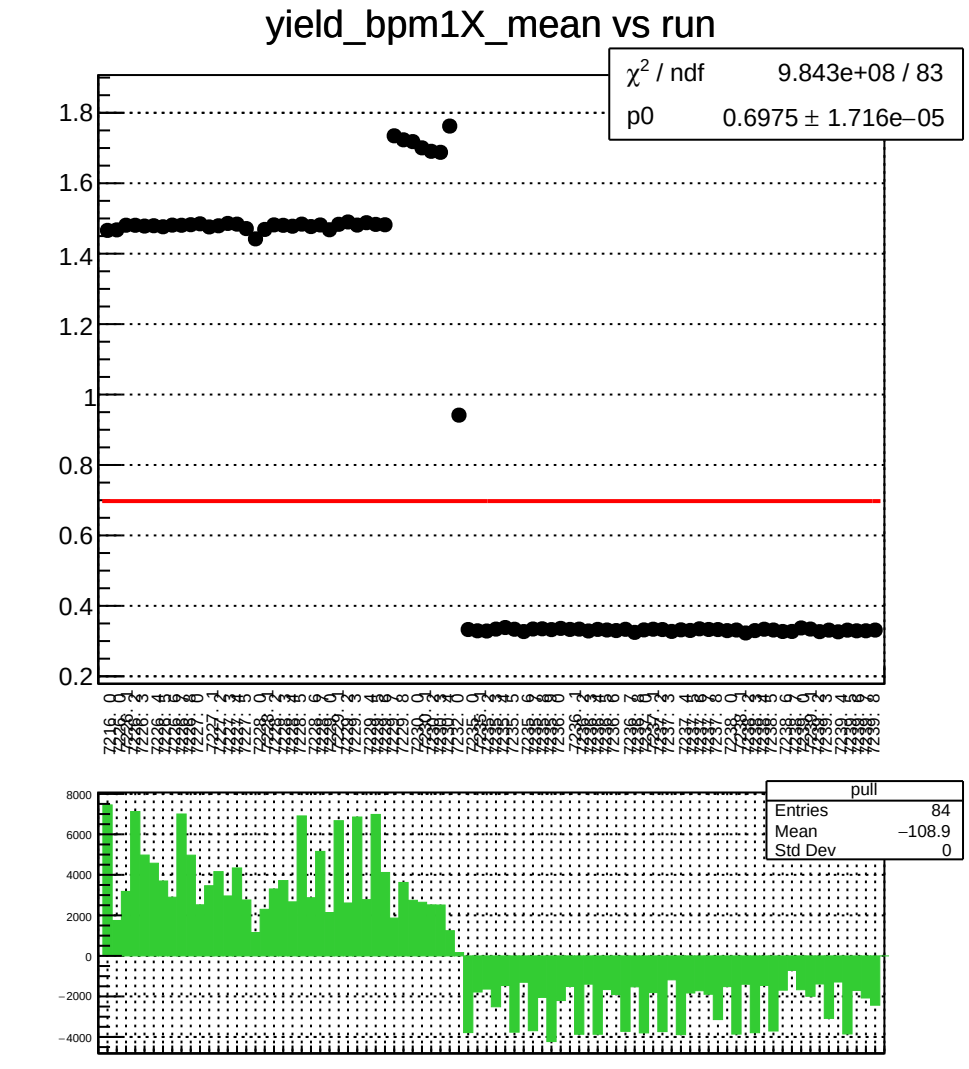

pull1D
Entries 84
Mean –2.959
Std Dev 4.608
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

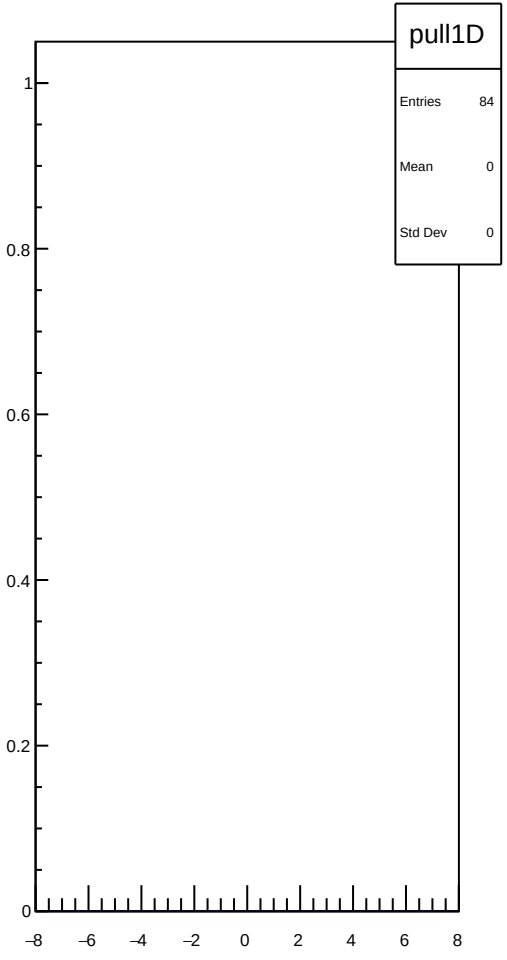

yield_bpm4ecX_rms vs run
χ² / ndf 3.839e+05 / 83
p0 0.01608 ± 1.443e−05
0.12
0.1
0.08
0.06
0.04
0.02

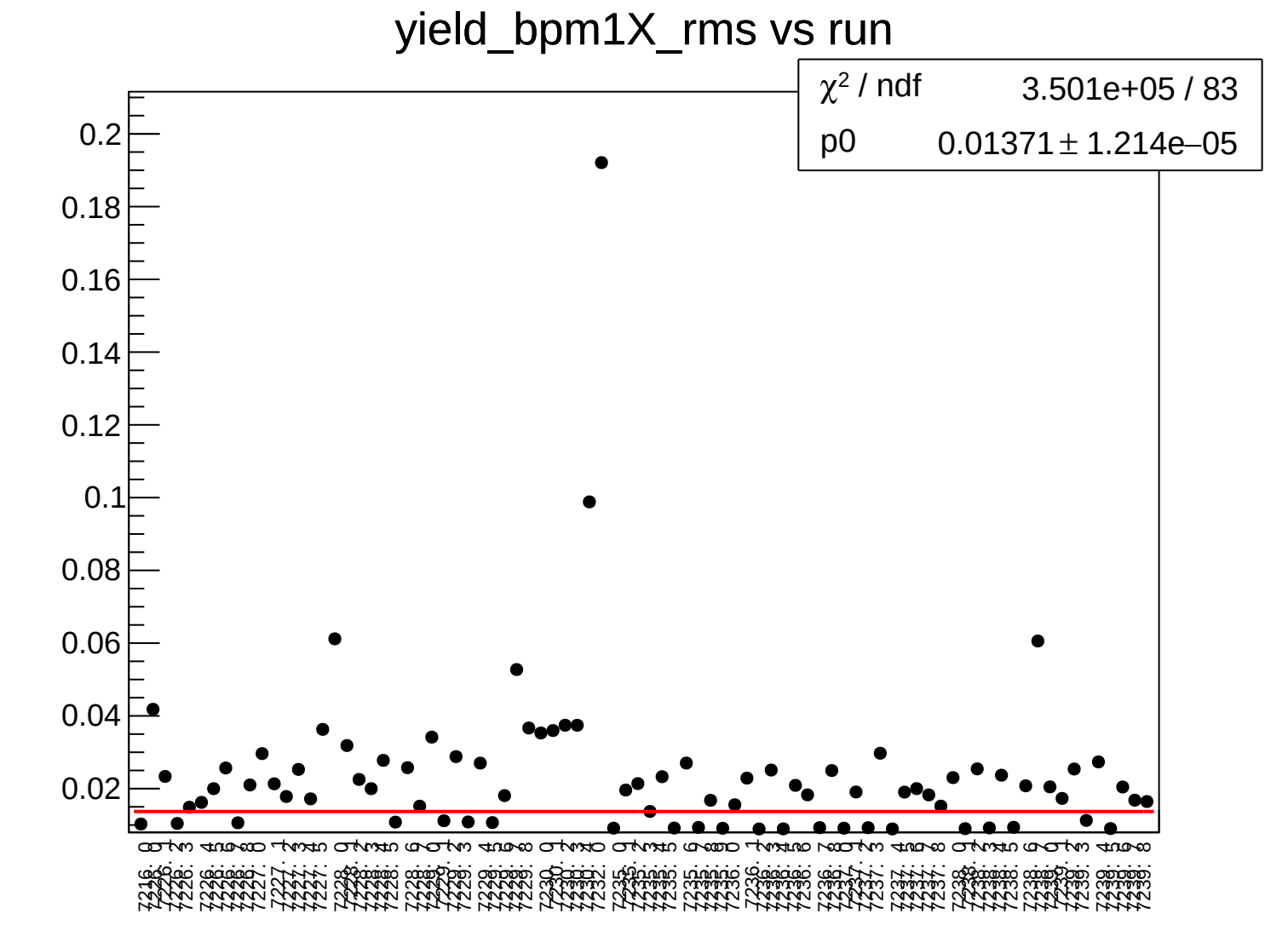

yield_bpm4ecY_mean vs run
χ² / ndf 1.26e+06 / 83
p0 0.01662 ± 1.105e−05
0.04
0.03
0.02
0.01
0
−0.01
pull
Entries 84
Mean −686.8
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

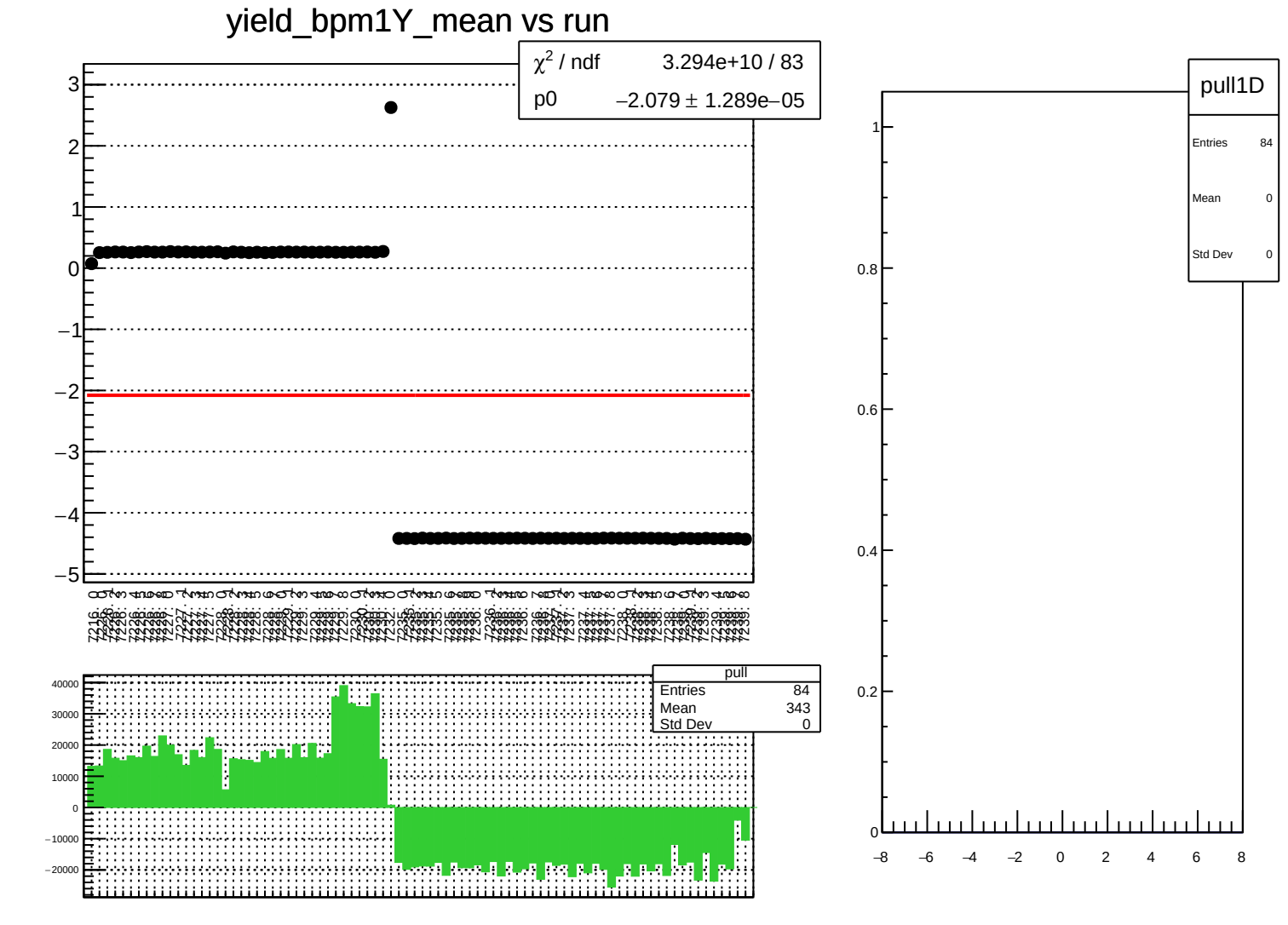

pull1D
Entries 84
Mean −1.486
Std Dev 4.489
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

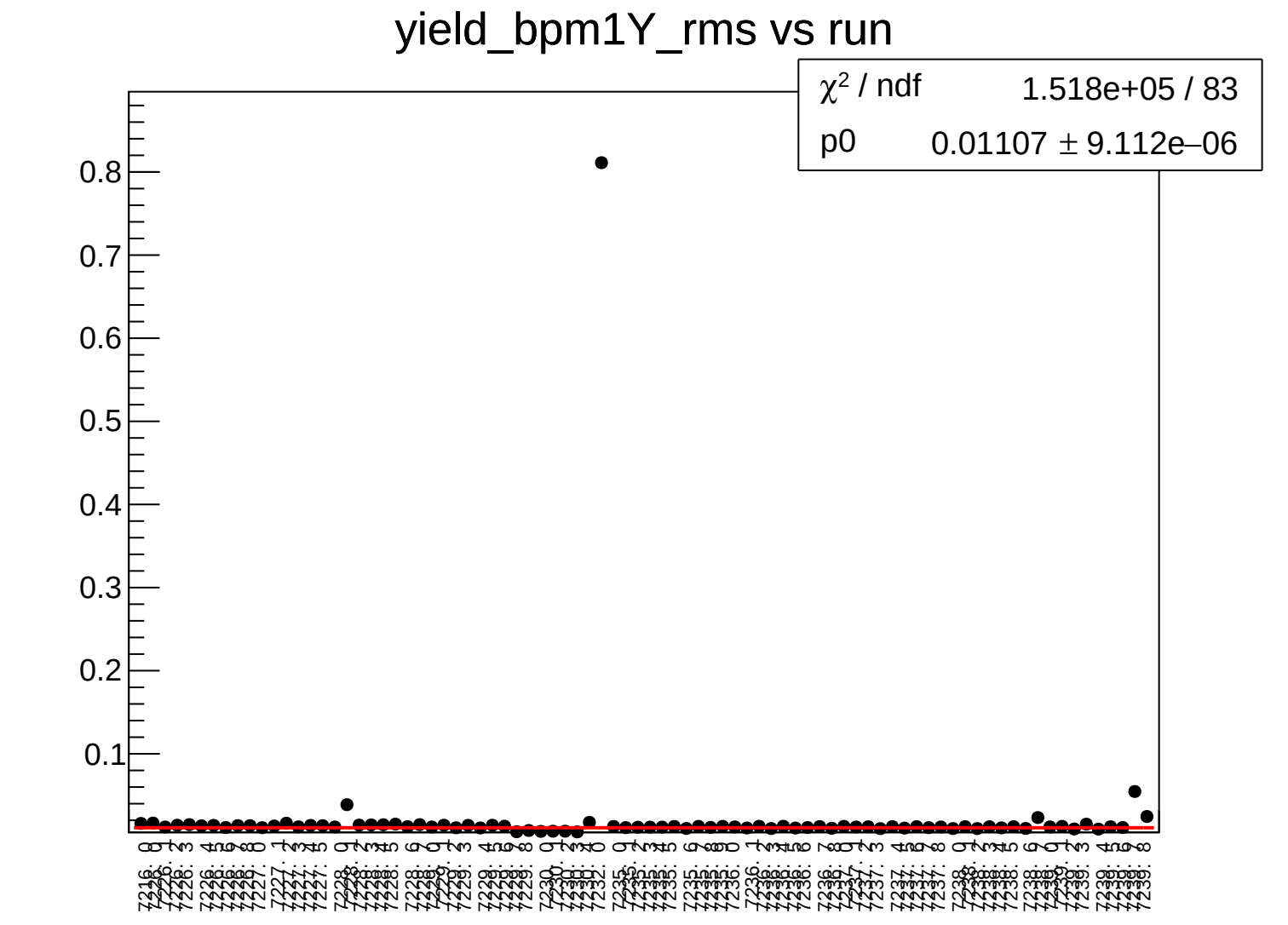

yield_bpm4ecY_rms vs run
χ² / ndf 7.332e+04 / 83
p0 0.009741 ± 7.816e−06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

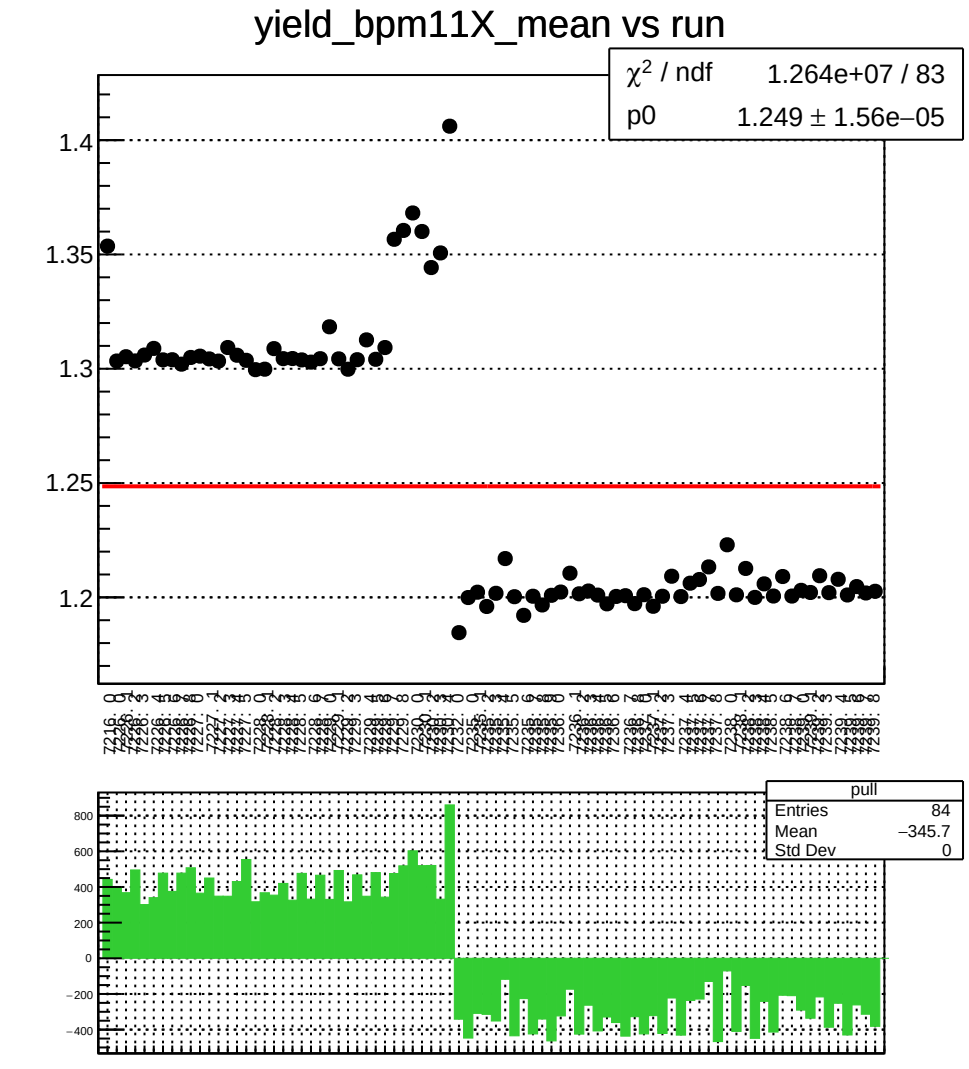

yield_bpm1X_mean vs run
χ² / ndf 9.843e+08 / 83
p0 0.6975 ± 1.716e−05
pull
Entries 84
Mean −108.9
Std Dev 0

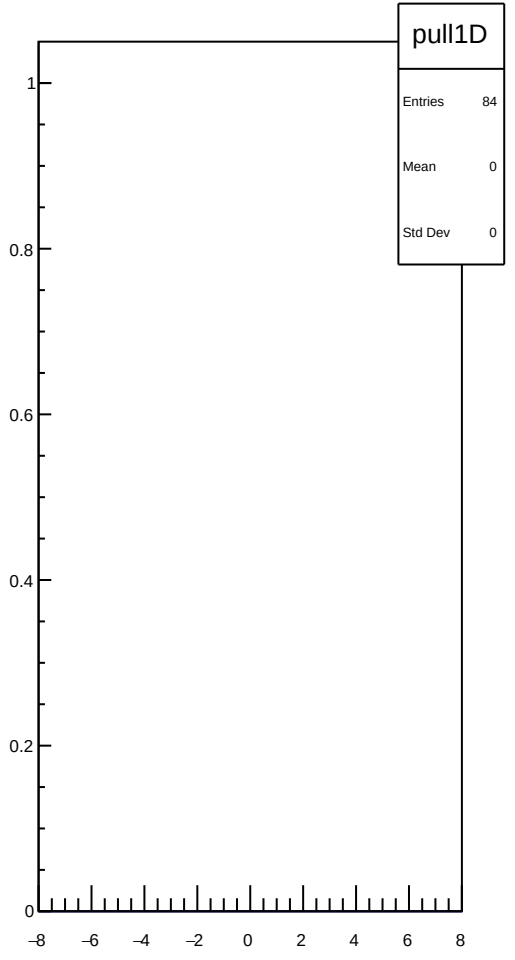

pull1D
Entries 84
Mean 0
Std Dev 0

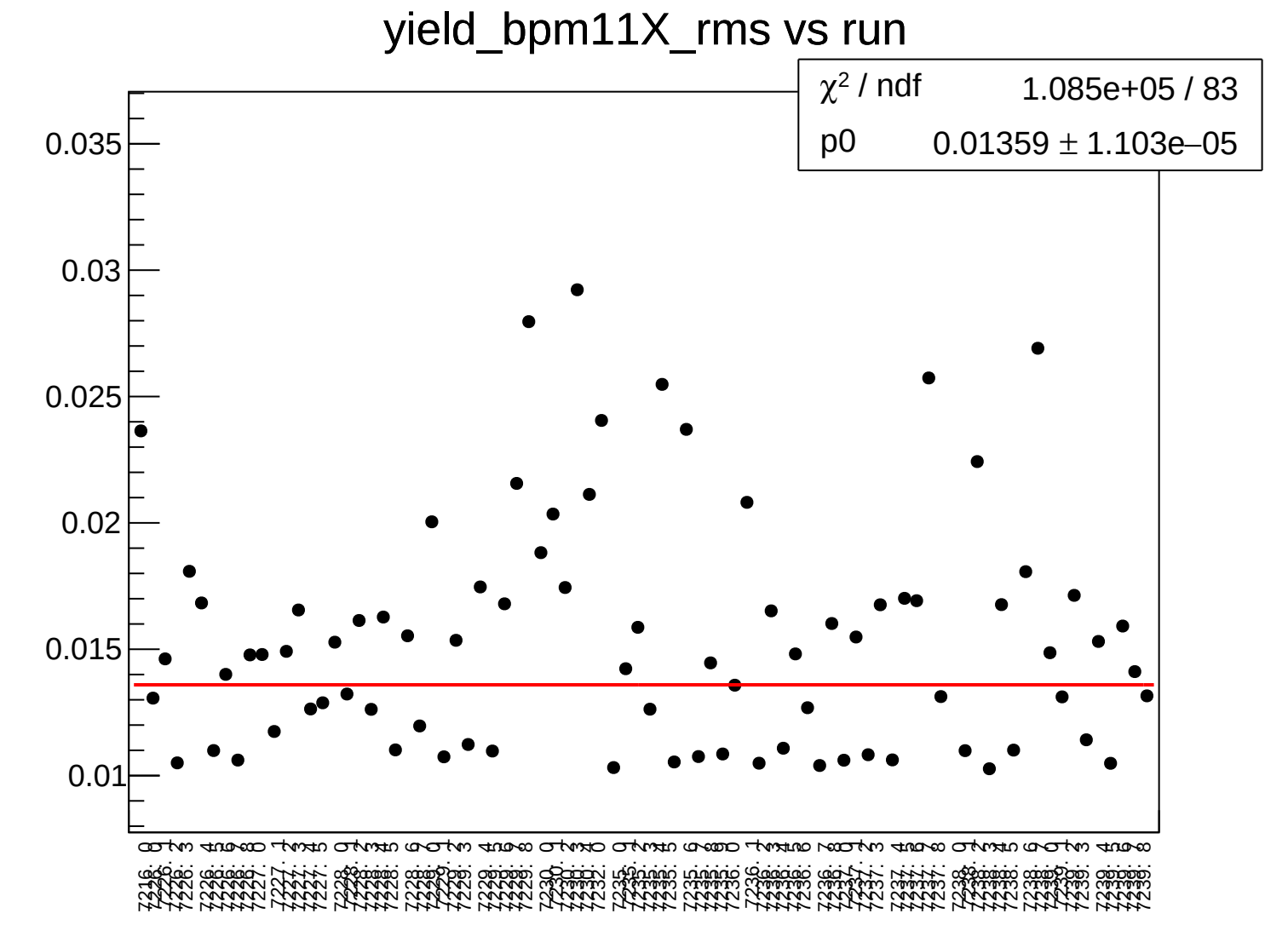

yield_bpm1X_rms vs run
χ² / ndf 3.501e+05 / 83
p0 0.01371 ± 1.214e–05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

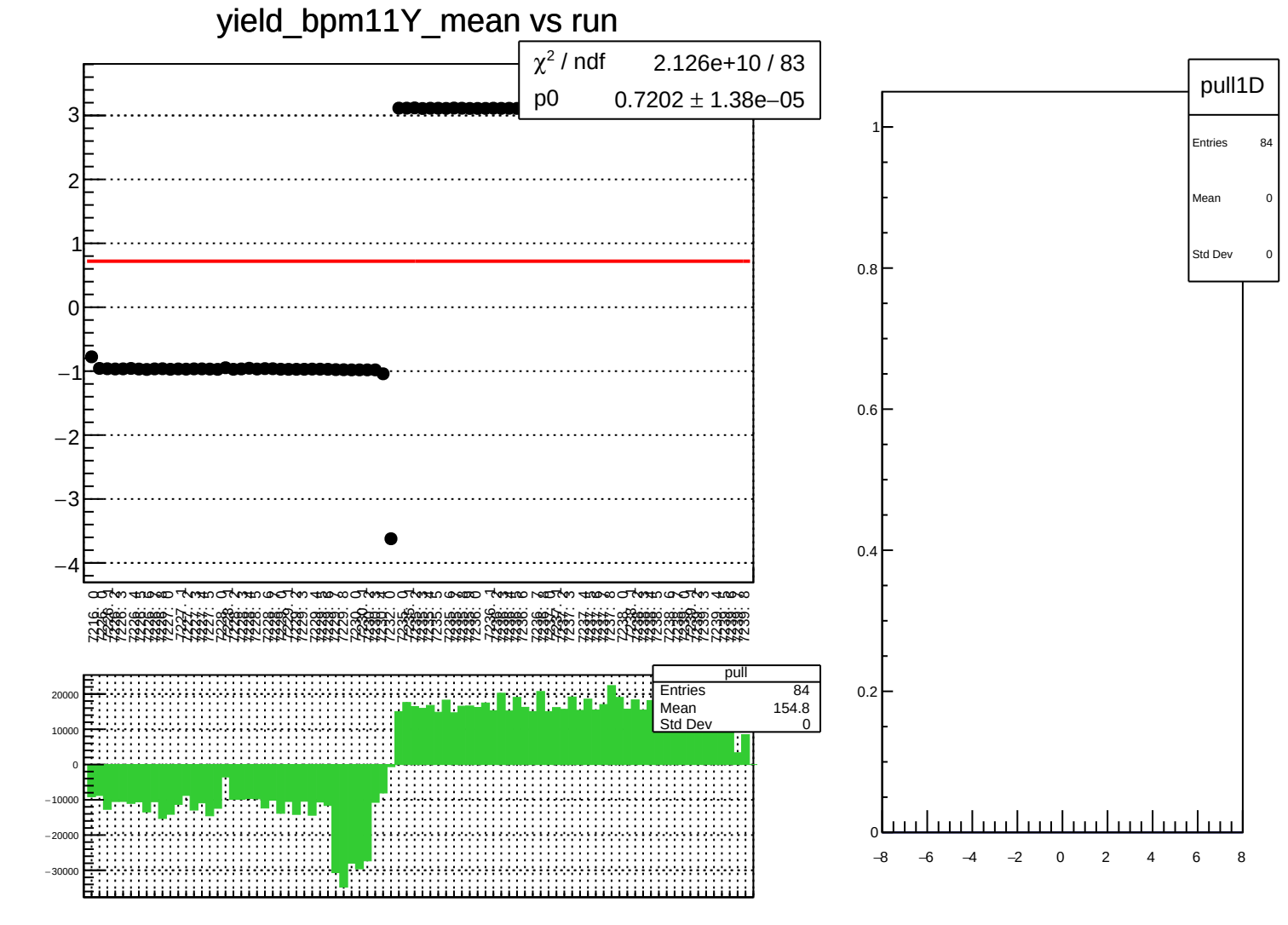

yield_bpm1Y_mean vs run
χ² / ndf 3.294e+10 / 83
p0 −2.079 ± 1.289e−05
pull
Entries 84
Mean 343
Std Dev 0
pull1D
Entries 84
Mean 0
Std Dev 0

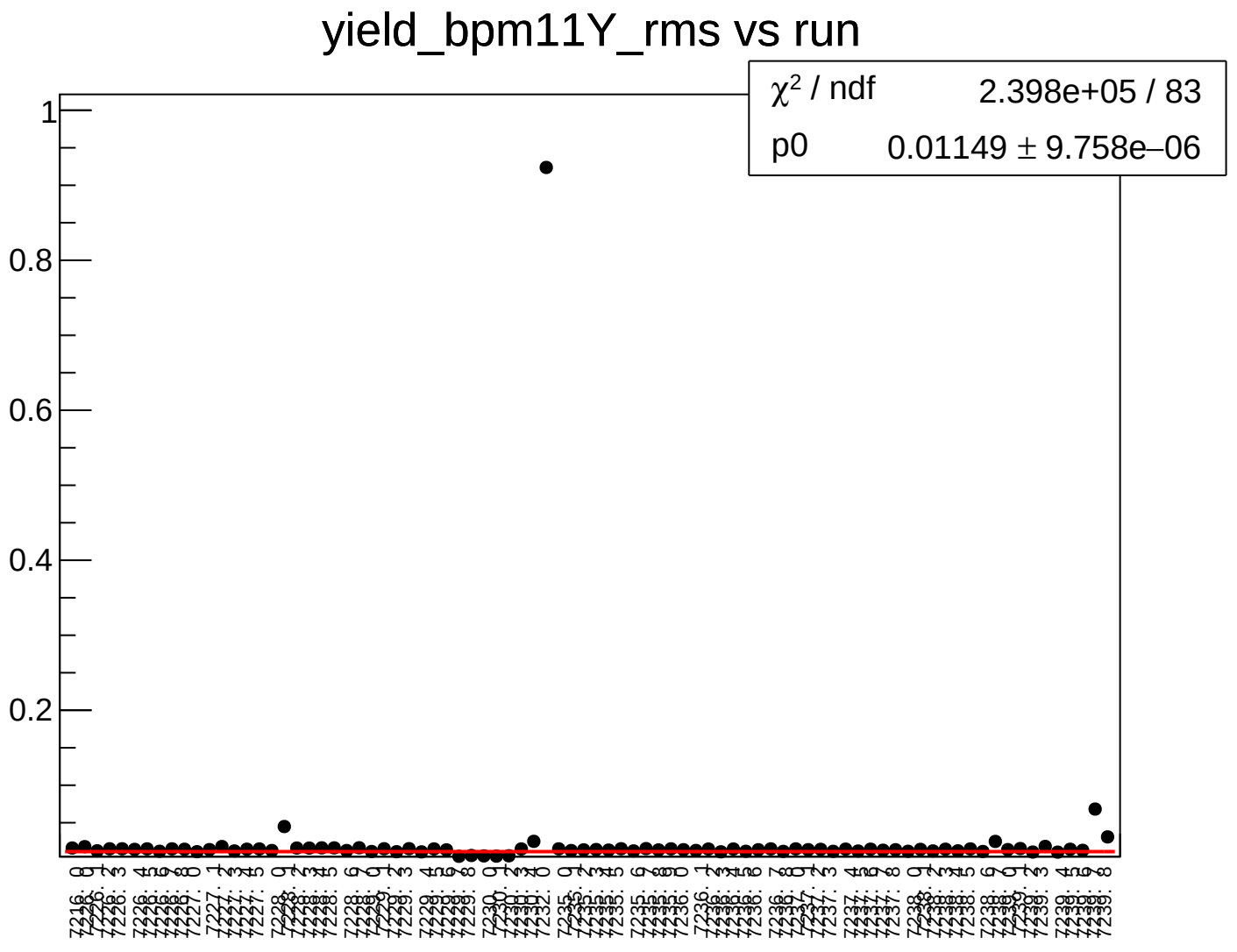

yield_bpm1Y_rms vs run
χ² / ndf 1.518e+05 / 83
p0 0.01107 ± 9.112e–06
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

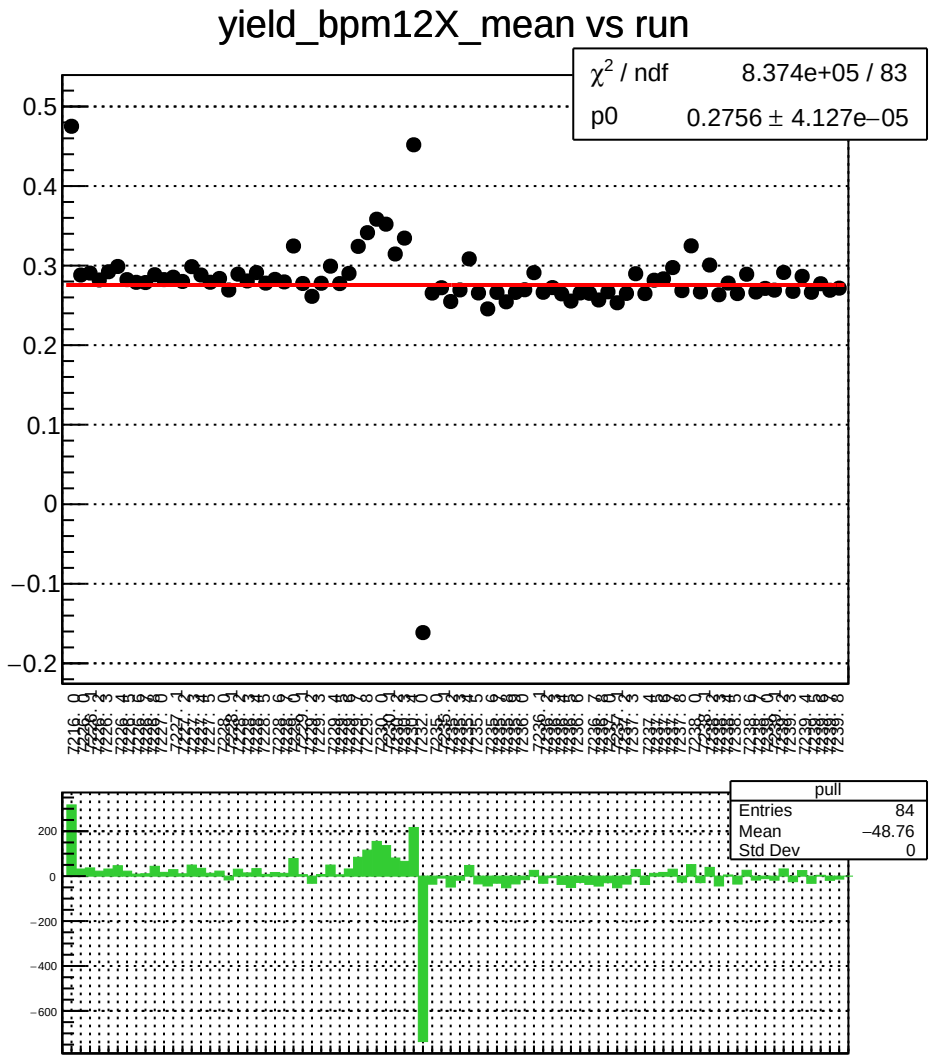

yield_bpm11X_mean vs run
χ² / ndf 1.264e+07 / 83
p0 1.249 ± 1.56e−05
1.4
1.35
1.3
1.25
1.2
pull
Entries 84
Mean −345.7
Std Dev 0
800
600
400
200
0
−200
−400

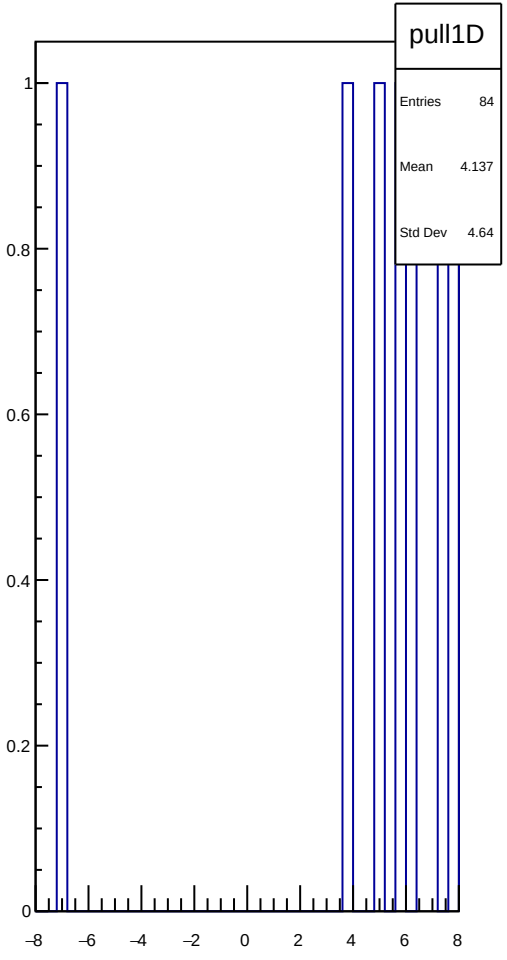

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

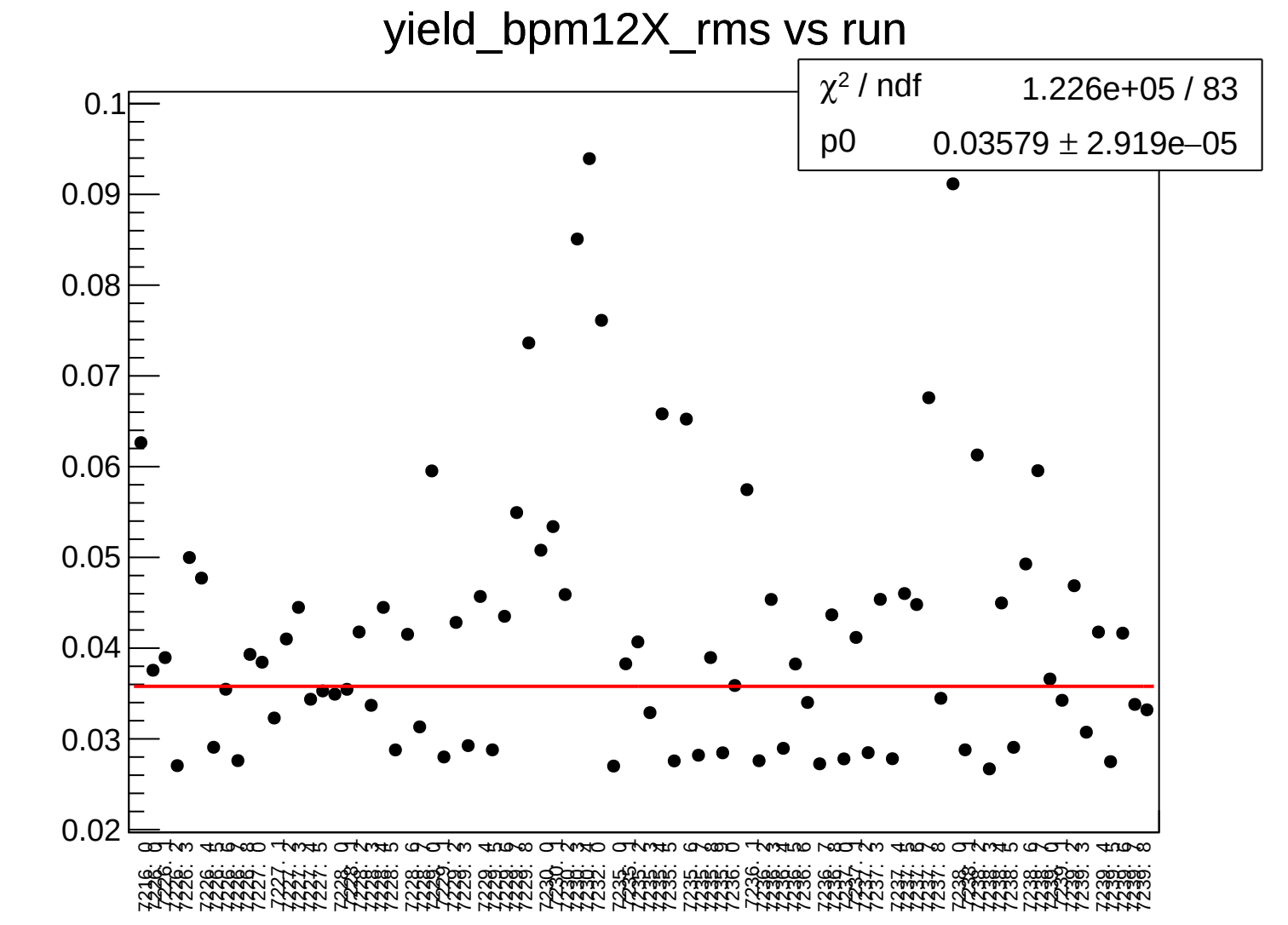

yield_bpm11X_rms vs run
χ² / ndf 1.085e+05 / 83
p0 0.01359 ± 1.103e–05
0.035
0.03
0.025
0.02
0.015
0.01

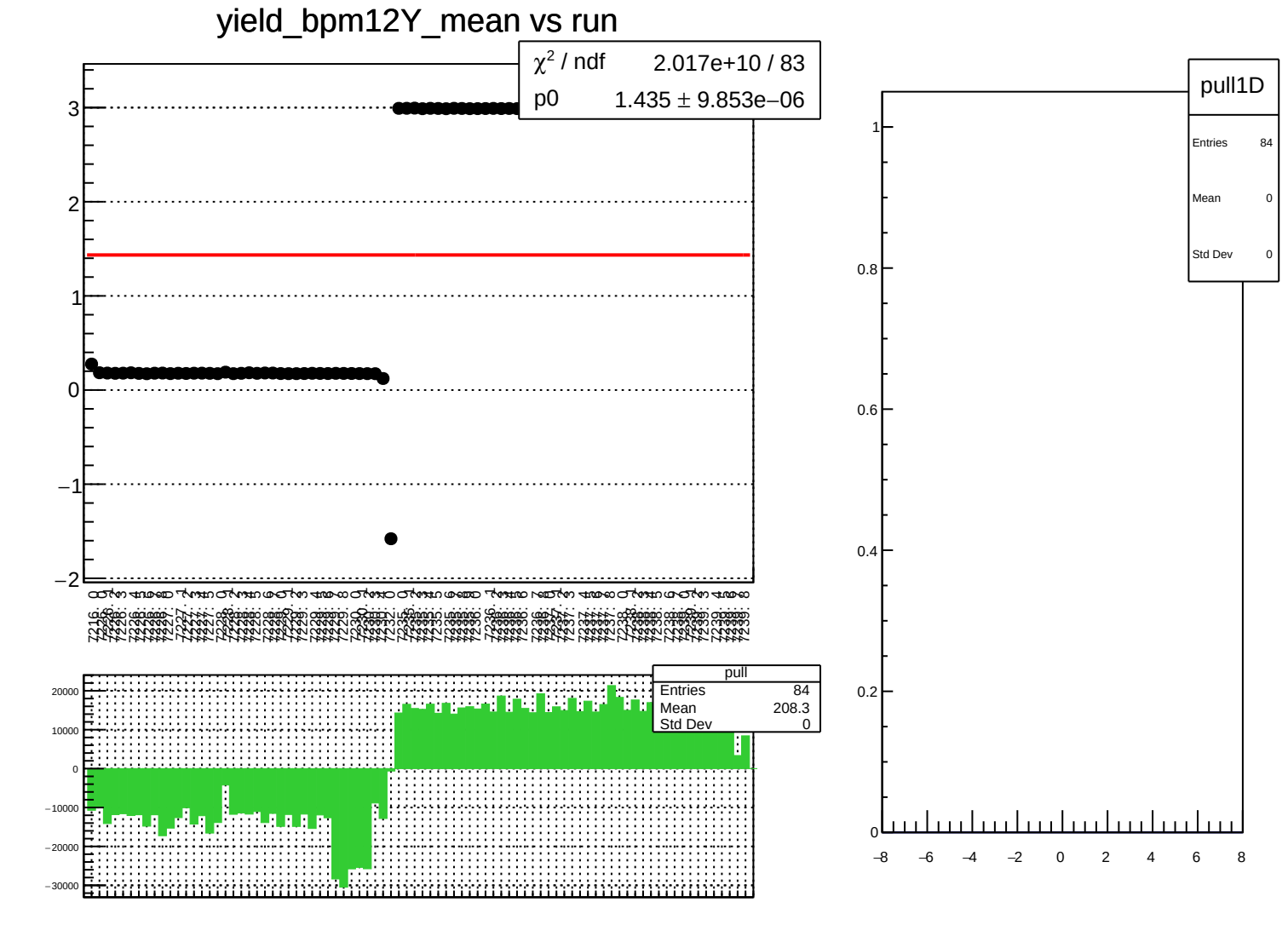

yield_bpm11Y_mean vs run
χ² / ndf 2.126e+10 / 83
p0 0.7202 ± 1.38e−05
pull
Entries 84
Mean 154.8
Std Dev 0
pull1D
Entries 84
Mean 0
Std Dev 0

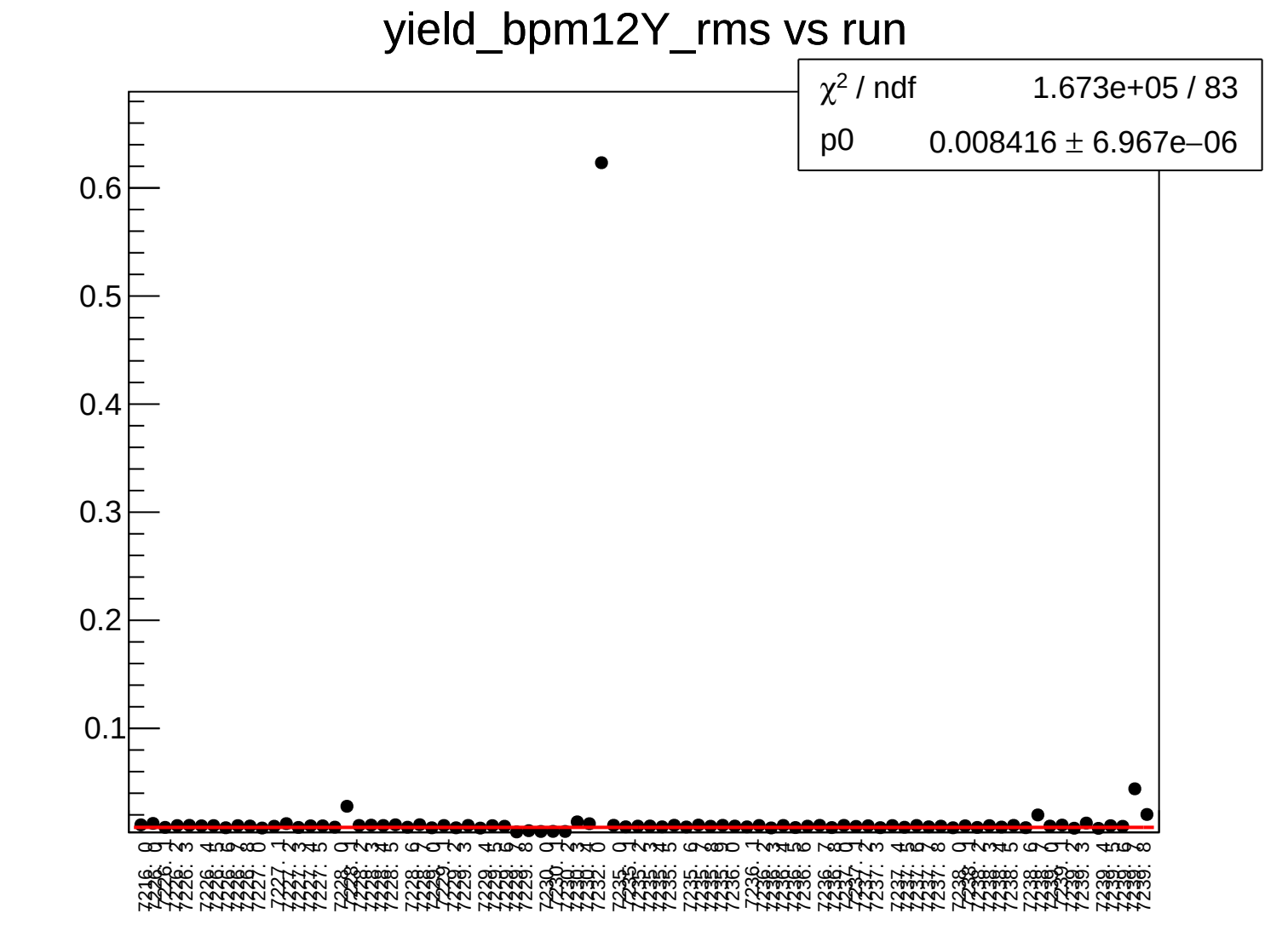

yield_bpm11Y_rms vs run
χ² / ndf 2.398e+05 / 83
p0 0.01149 ± 9.758e–06
1
0.8
0.6
0.4
0.2

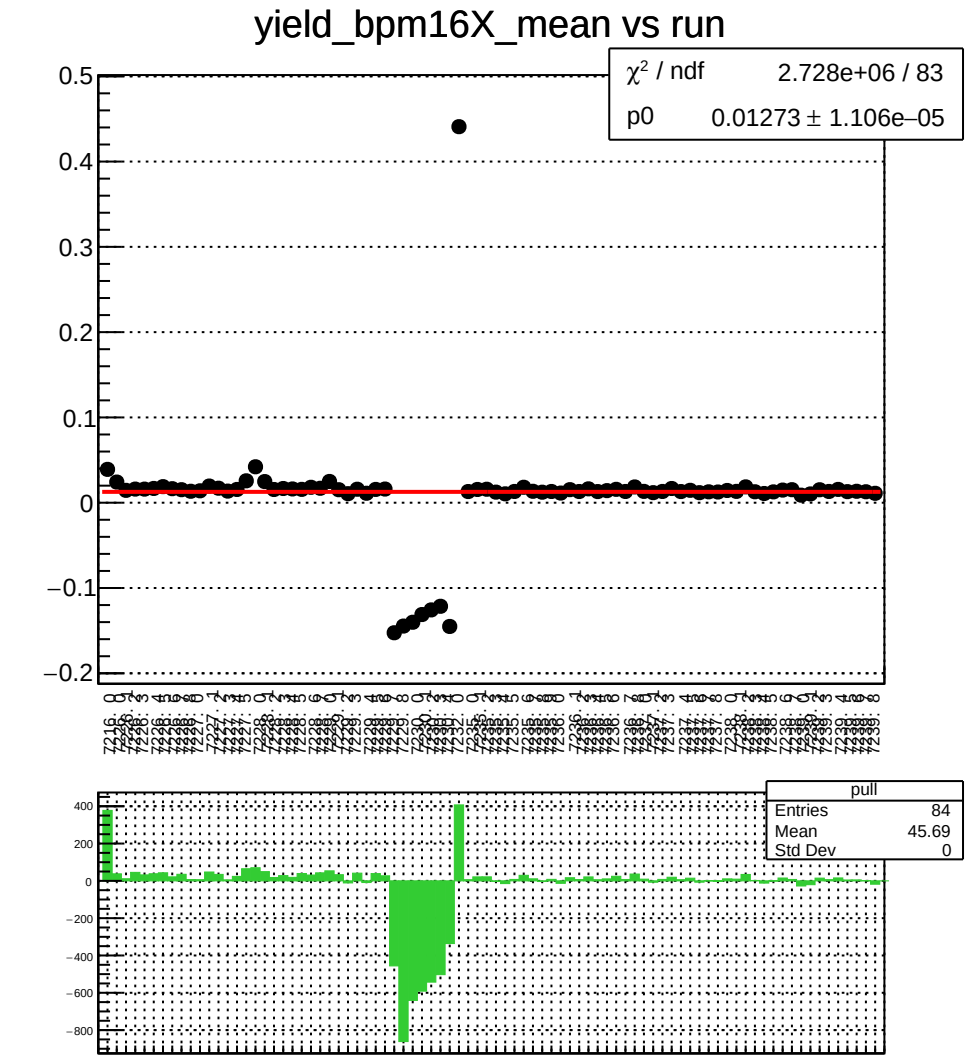

yield_bpm12X_mean vs run
χ² / ndf 8.374e+05 / 83
p0 0.2756 ± 4.127e−05
pull
Entries 84
Mean −48.76
Std Dev 0

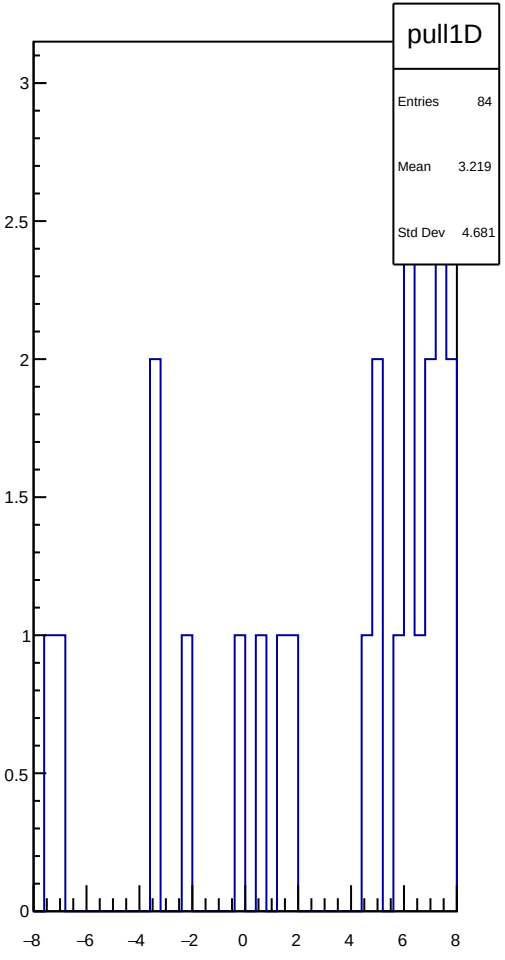

pull1D
Entries 84
Mean 4.137
Std Dev 4.64

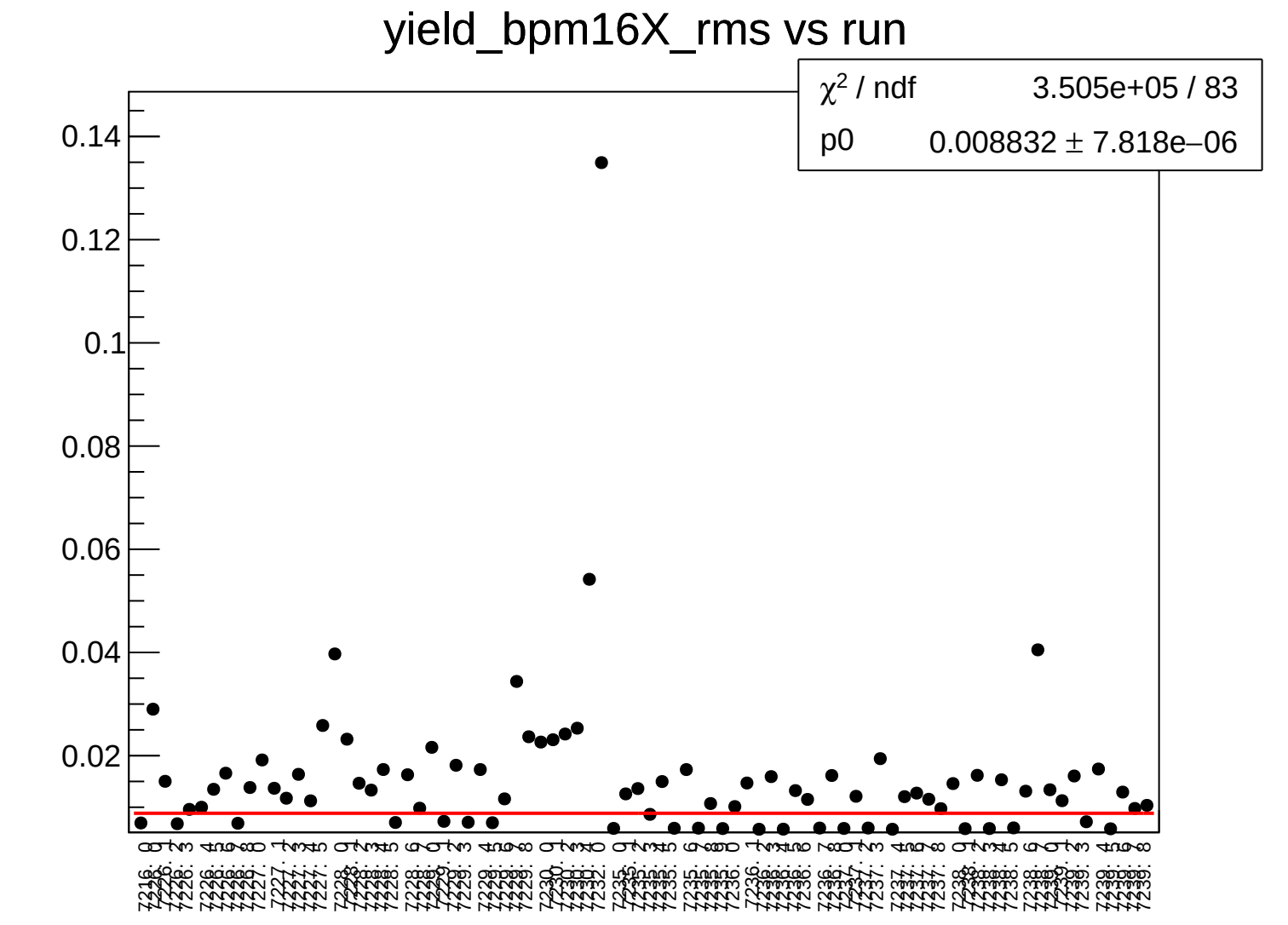

yield_bpm12X_rms vs run
χ² / ndf 1.226e+05 / 83
p0 0.03579 ± 2.919e−05
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02

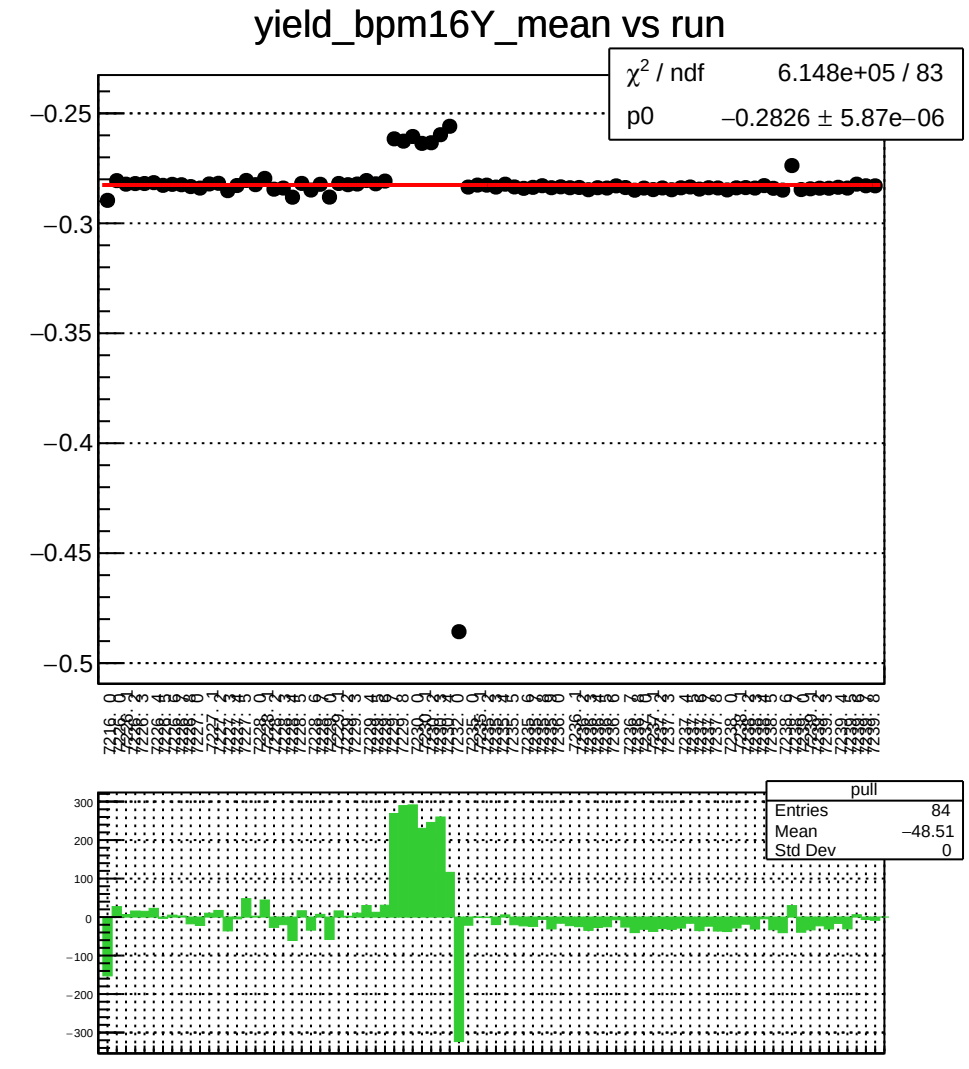

yield_bpm12Y_mean vs run
χ² / ndf 2.017e+10 / 83
p0 1.435 ± 9.853e−06
pull
Entries 84
Mean 208.3
Std Dev 0
pull1D
Entries 84
Mean 0
Std Dev 0

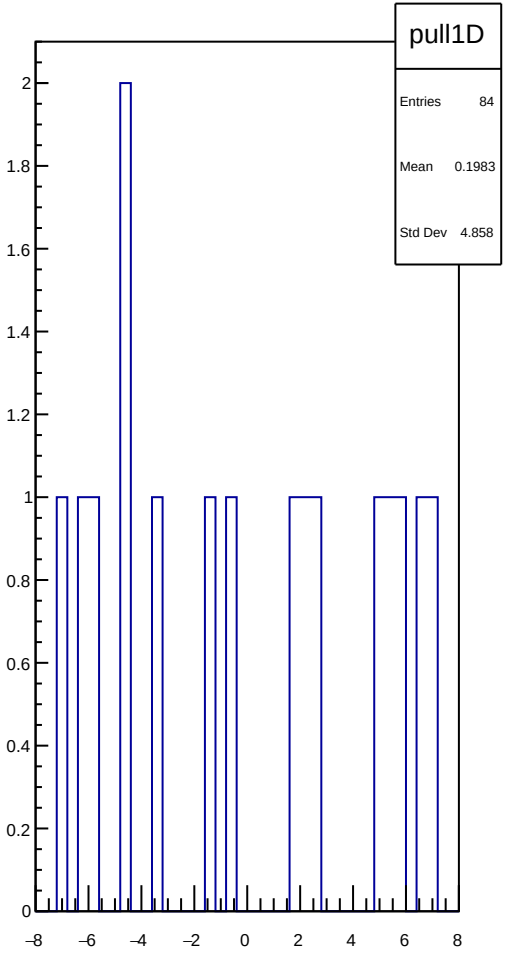

yield_bpm12Y_rms vs run
χ² / ndf 1.673e+05 / 83
p0 0.008416 ± 6.967e−06
0.6
0.5
0.4
0.3
0.2
0.1

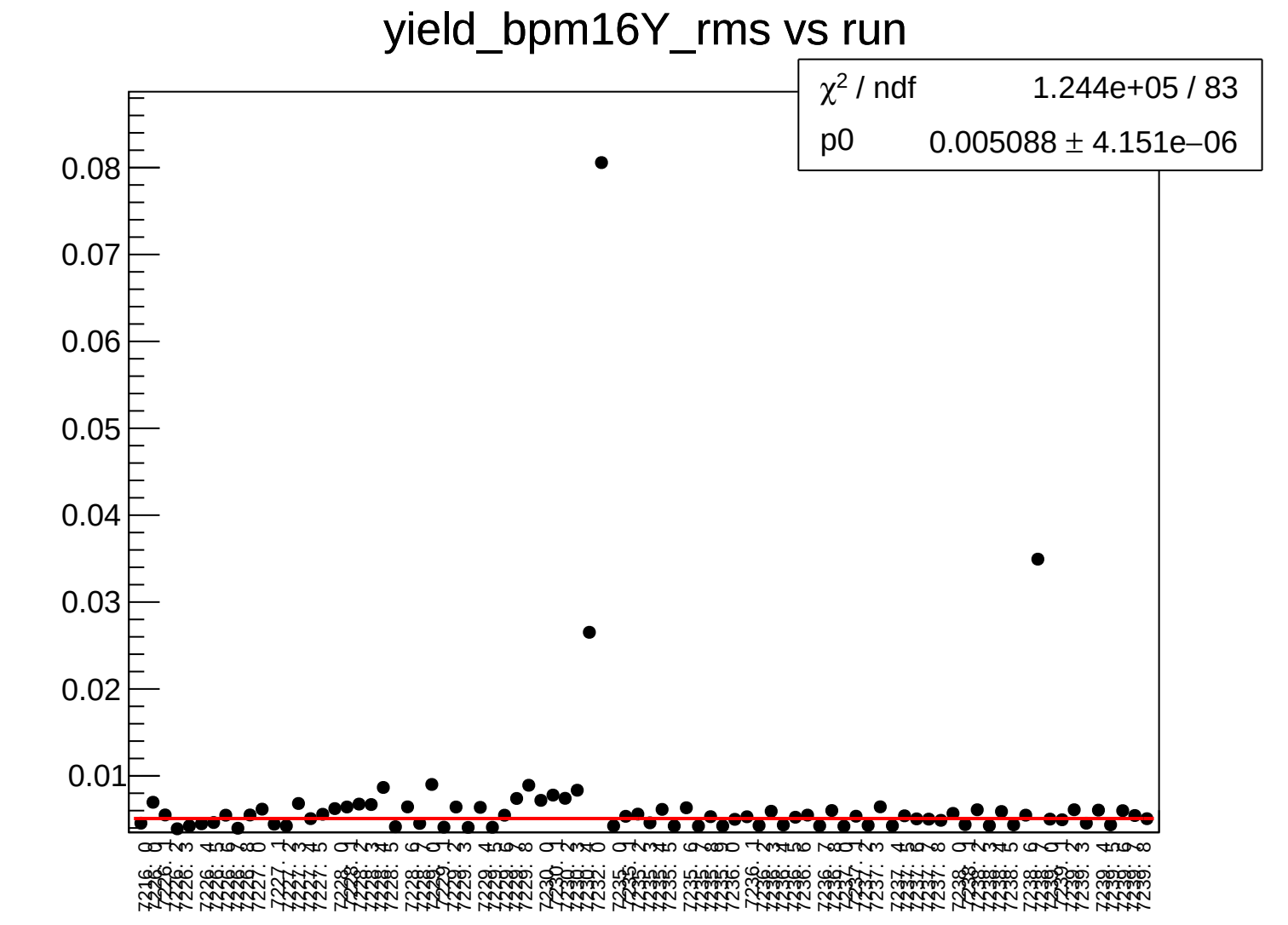

yield_bpm16X_mean vs run
χ² / ndf 2.728e+06 / 83
p0 0.01273 ± 1.106e−05
pull
Entries 84
Mean 45.69
Std Dev 0

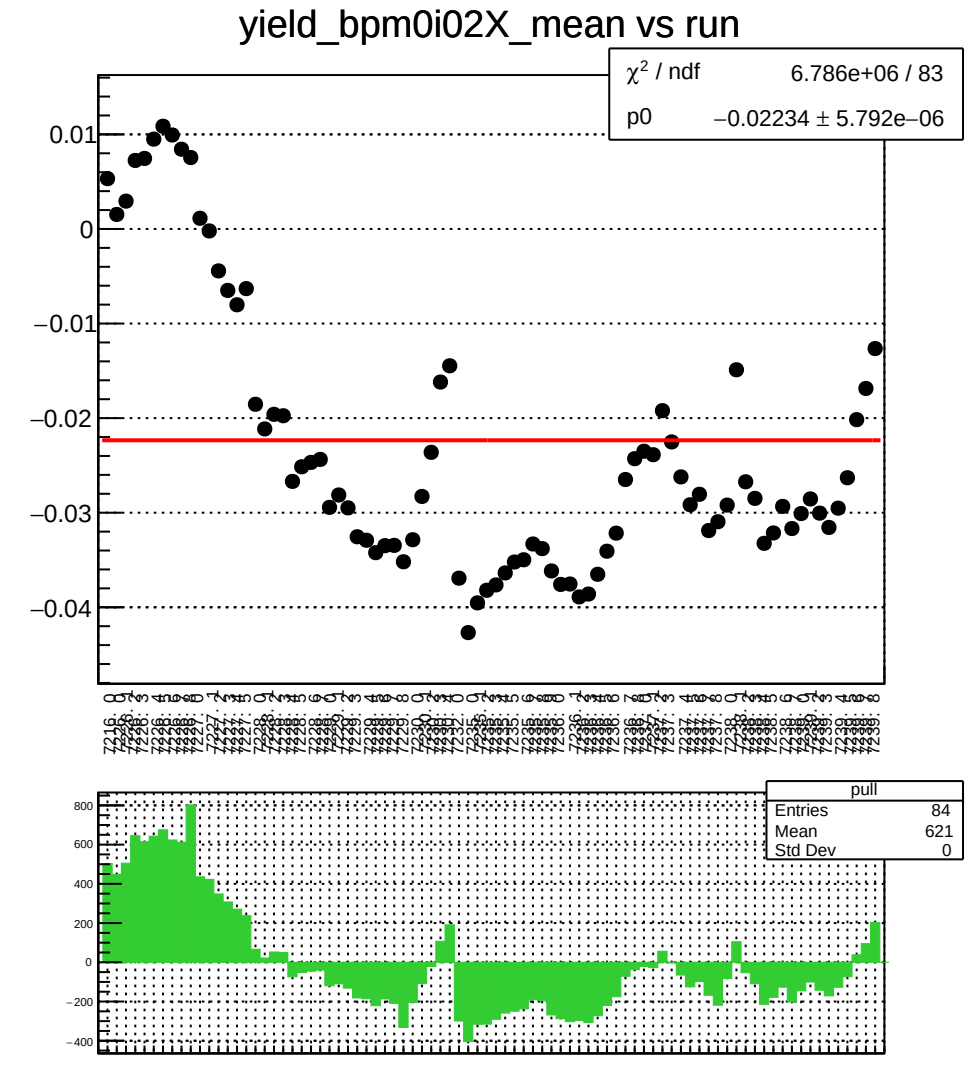

pull1D
Entries 84
Mean 3.219
Std Dev 4.681

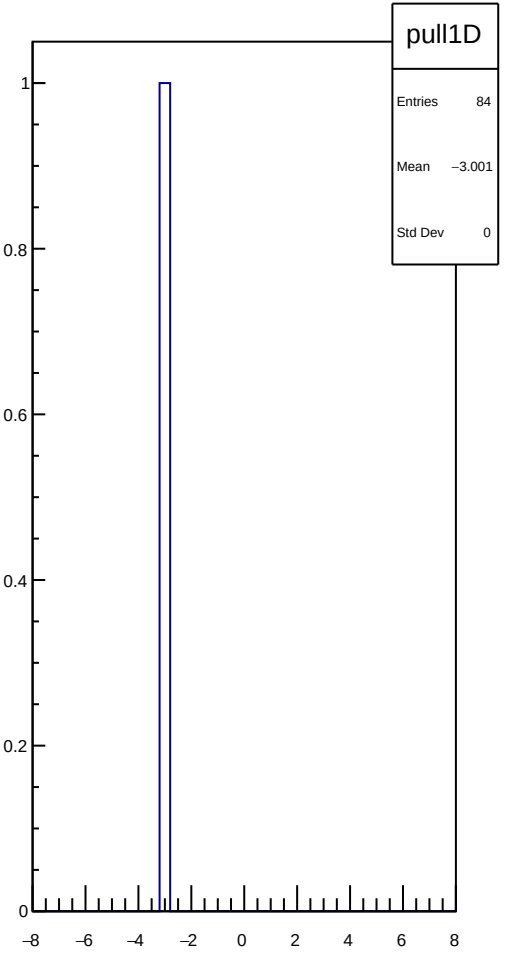

yield_bpm16X_rms vs run
χ² / ndf 3.505e+05 / 83
p0 0.008832 ± 7.818e−06
0.14
0.12
0.1
0.08
0.06
0.04
0.02

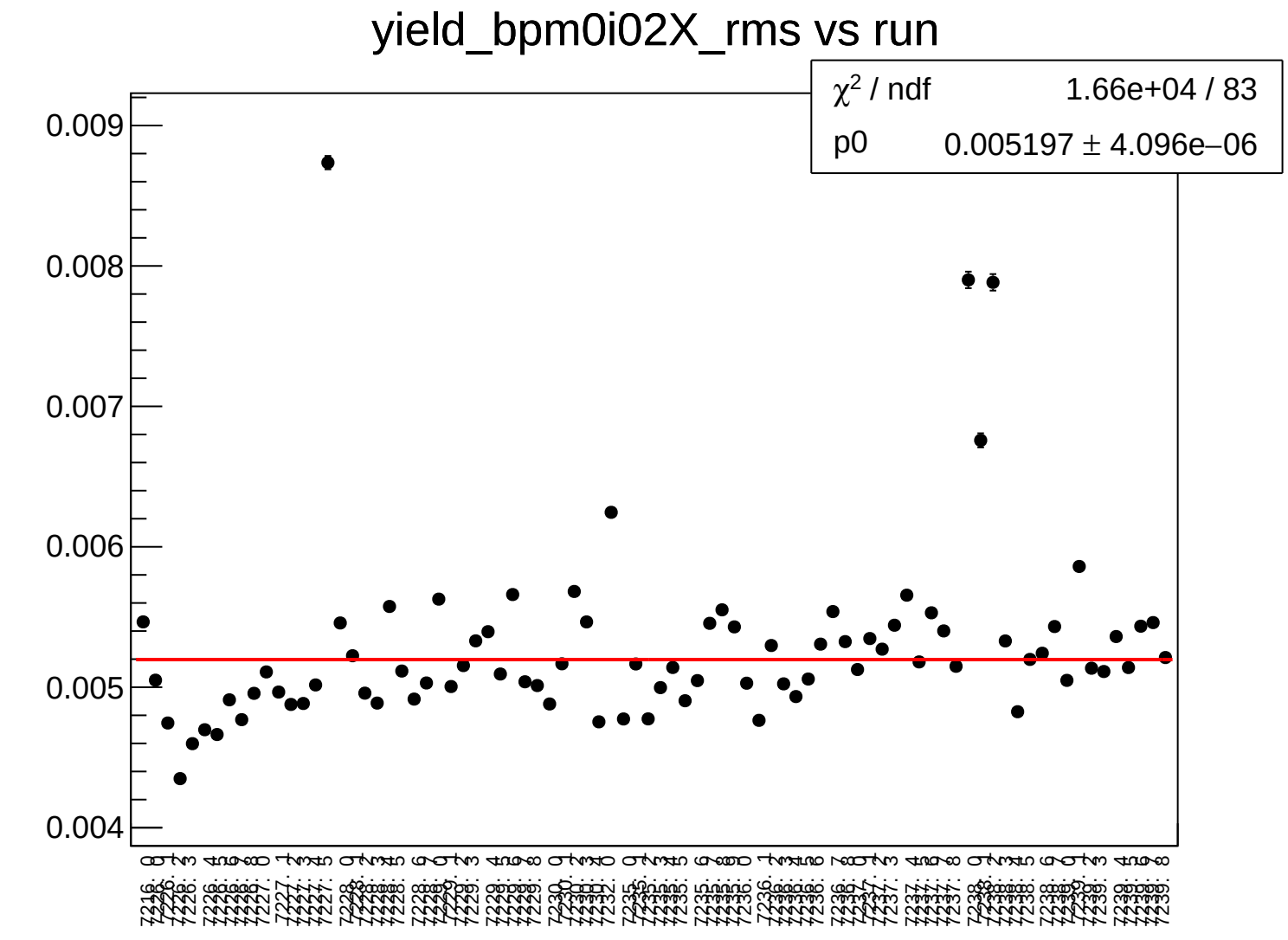

yield_bpm16Y_mean vs run
χ² / ndf 6.148e+05 / 83
p0 −0.2826 ± 5.87e−06
−0.25
−0.3
−0.35
−0.4
−0.45
−0.5
pull
Entries 84
Mean −48.51
Std Dev 0
300
200
100
0
−100
−200
−300

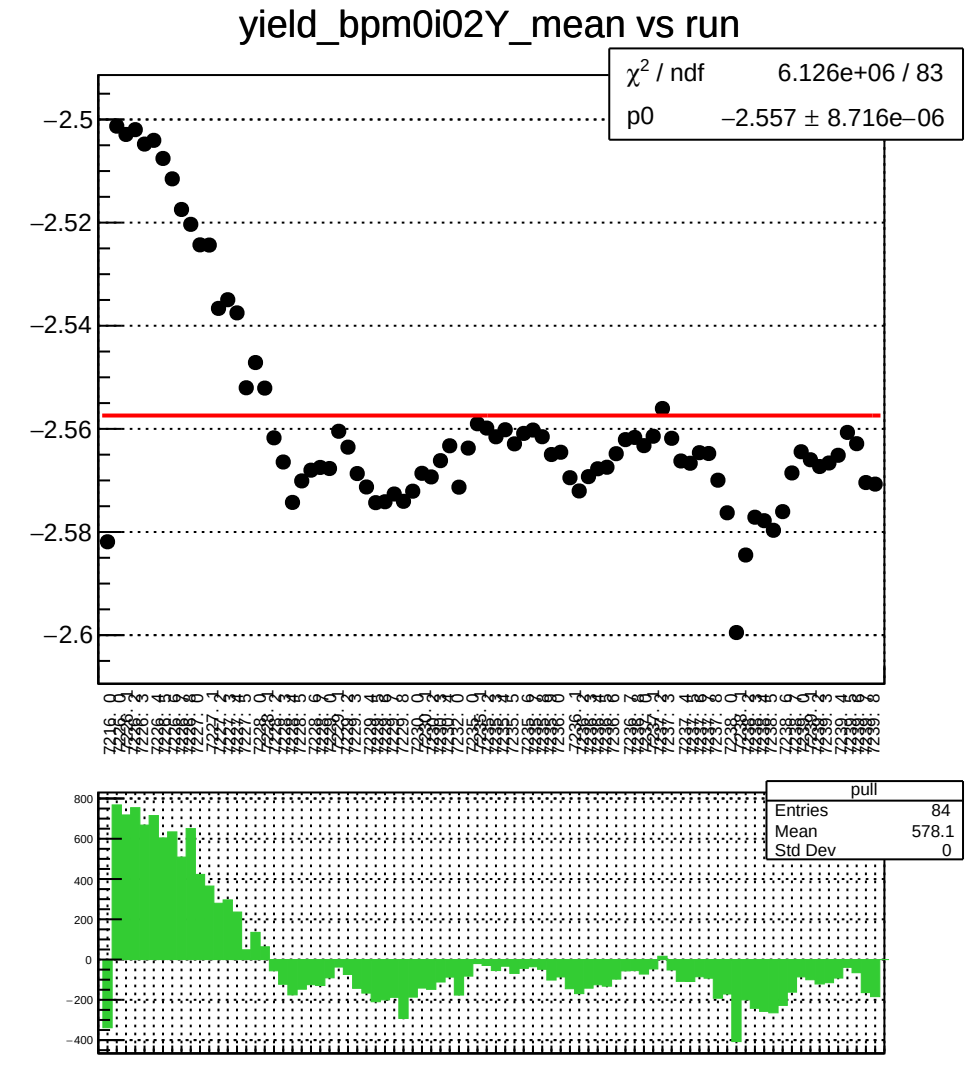

pull1D
Entries 84
Mean 0.1983
Std Dev 4.858
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

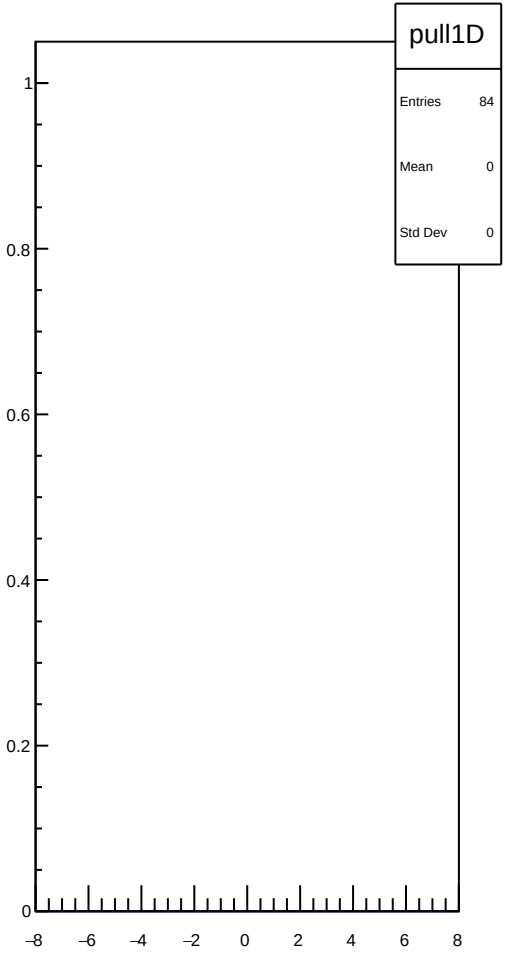

yield_bpm16Y_rms vs run
χ² / ndf 1.244e+05 / 83
p0 0.005088 ± 4.151e−06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

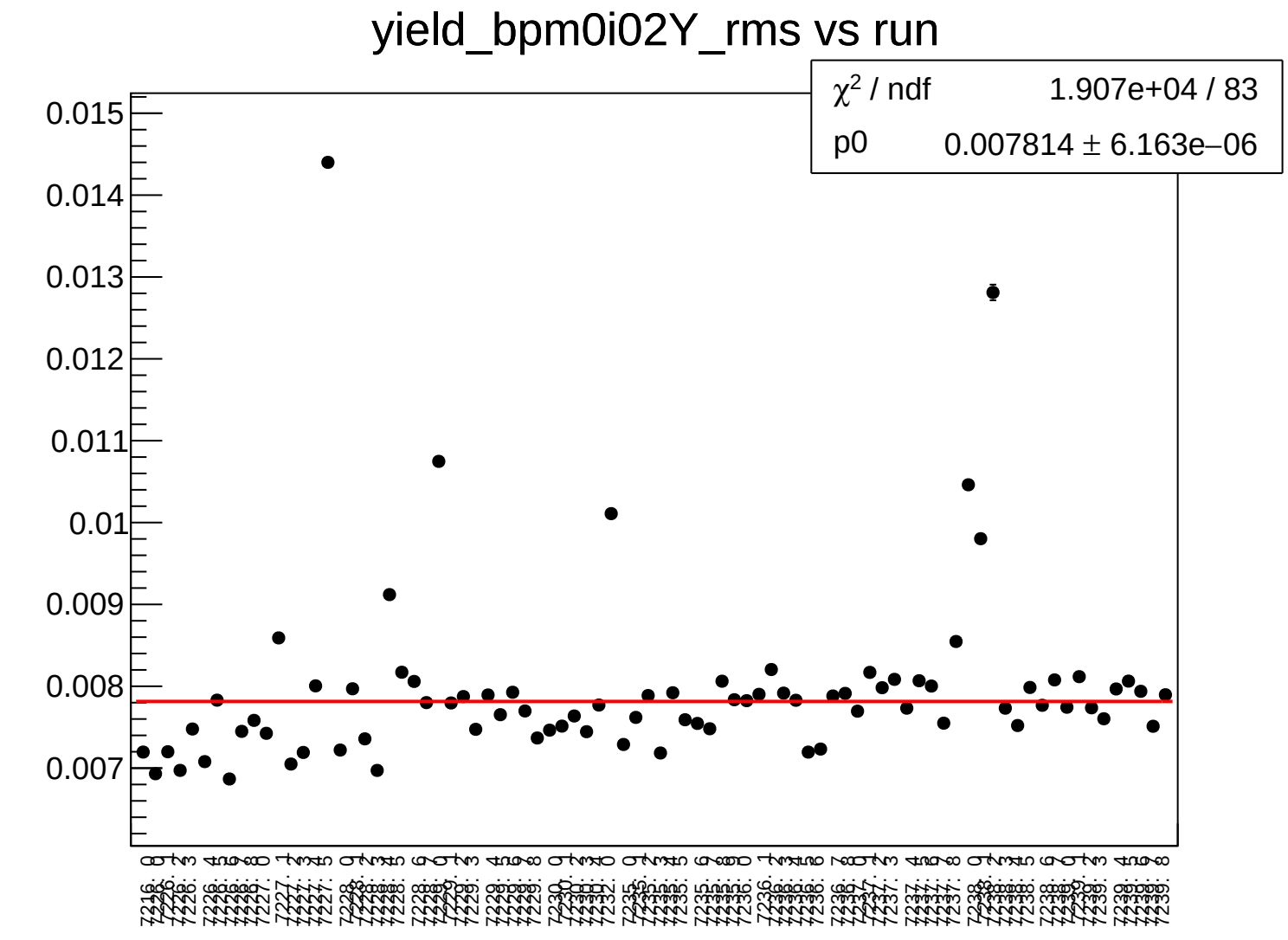

yield_bpm0i02X_mean vs run
χ² / ndf 6.786e+06 / 83
p0 −0.02234 ± 5.792e−06
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 84
Mean 621
Std Dev 0
800
600
400
200
0
−200
−400

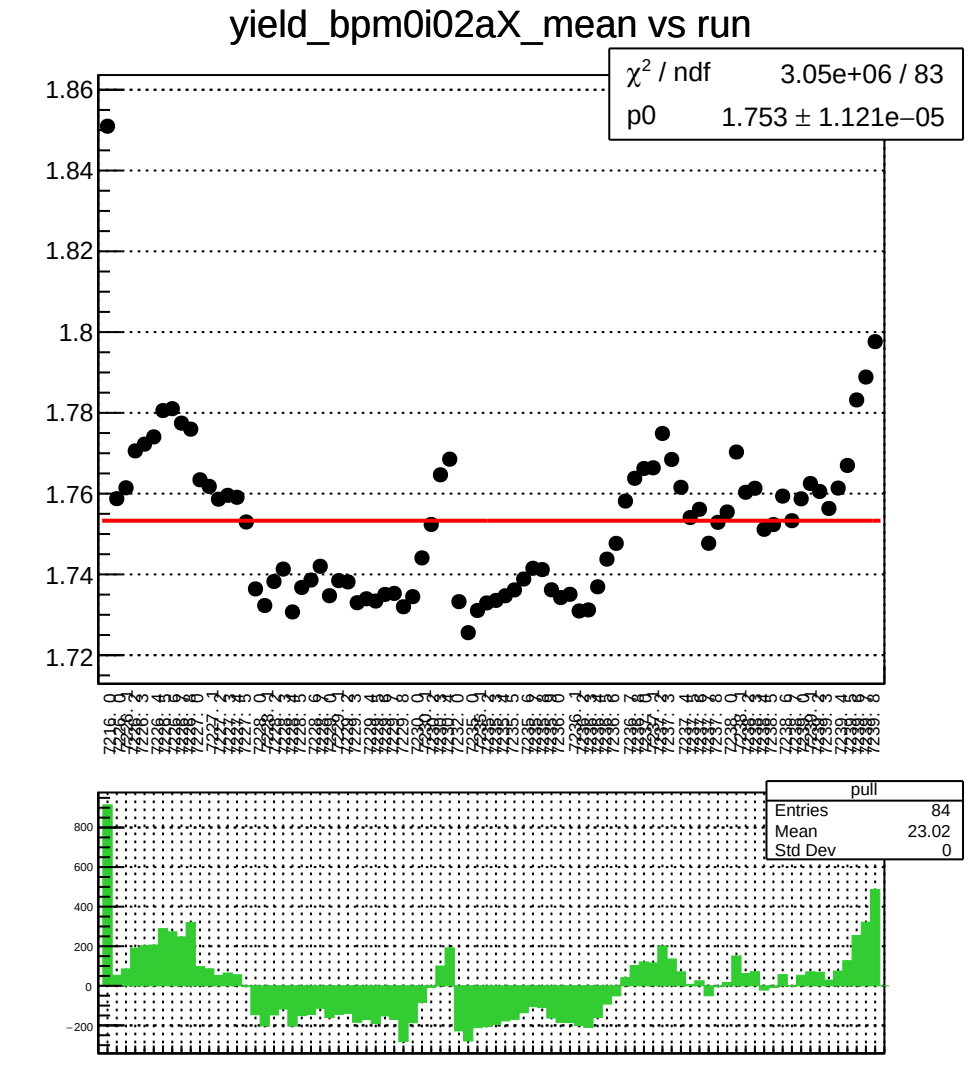

pull1D
Entries 84
Mean −3.001
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

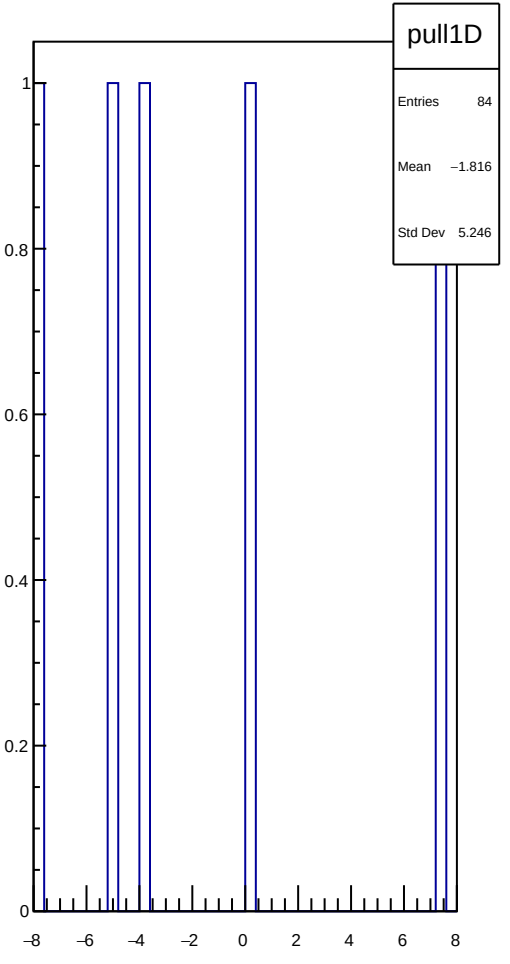

yield_bpm0i02X_rms vs run
χ² / ndf 1.66e+04 / 83
p0 0.005197 ± 4.096e−06
0.009
0.008
0.007
0.006
0.005
0.004

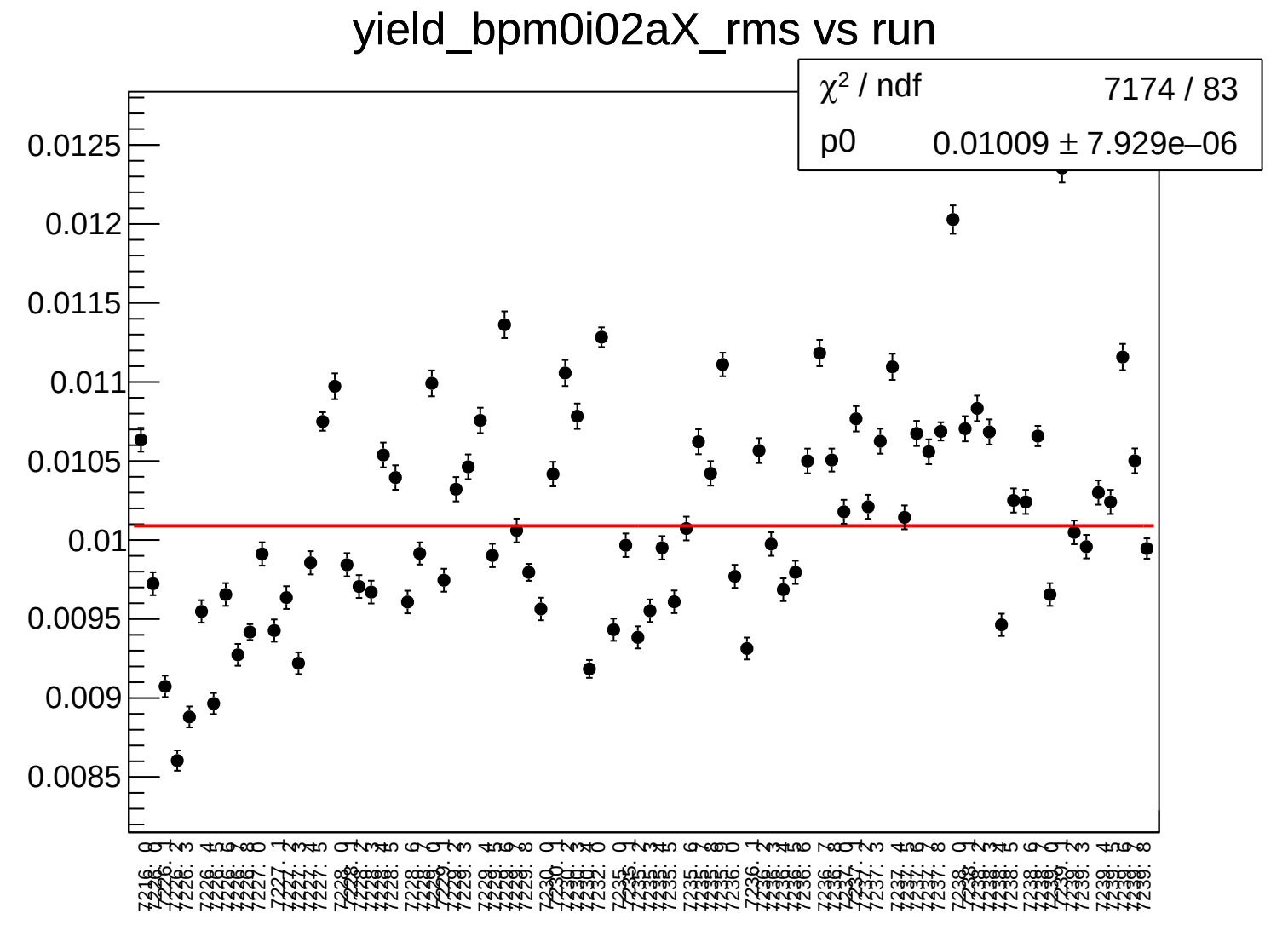

yield_bpm0i02Y_mean vs run
χ² / ndf 6.126e+06 / 83
p0 −2.557 ± 8.716e−06
−2.5
−2.52
−2.54
−2.56
−2.58
−2.6
pull
Entries 84
Mean 578.1
Std Dev 0
800
600
400
200
0
−200
−400

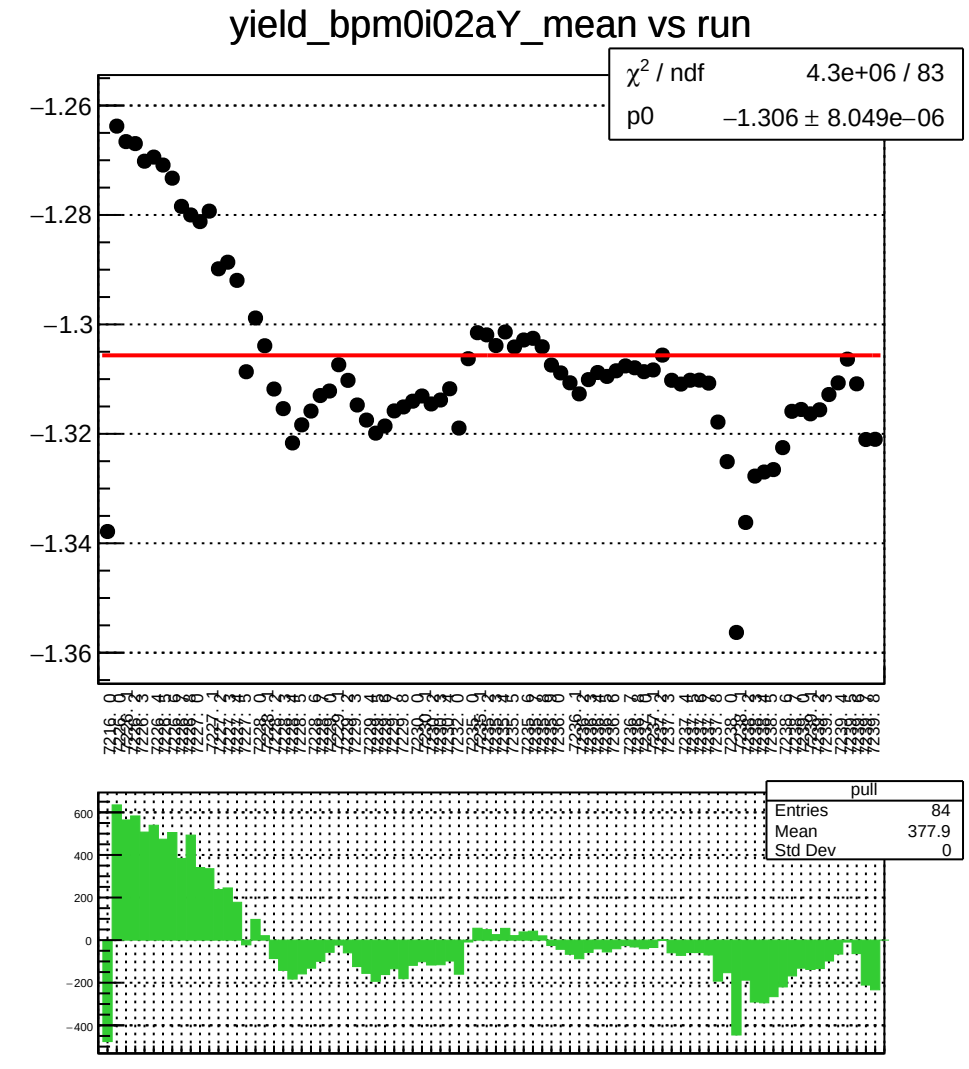

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

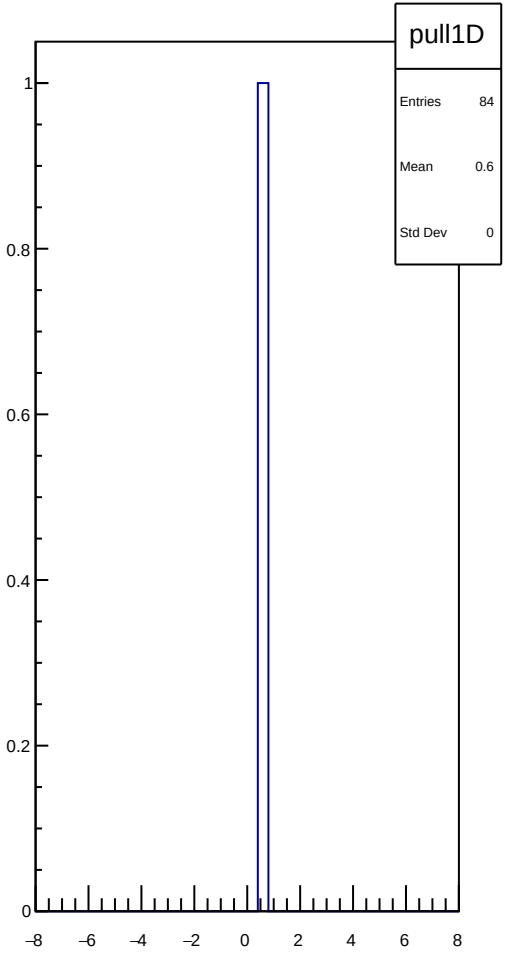

yield_bpm0i02Y_rms vs run
χ² / ndf 1.907e+04 / 83
p0 0.007814 ± 6.163e−06
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007

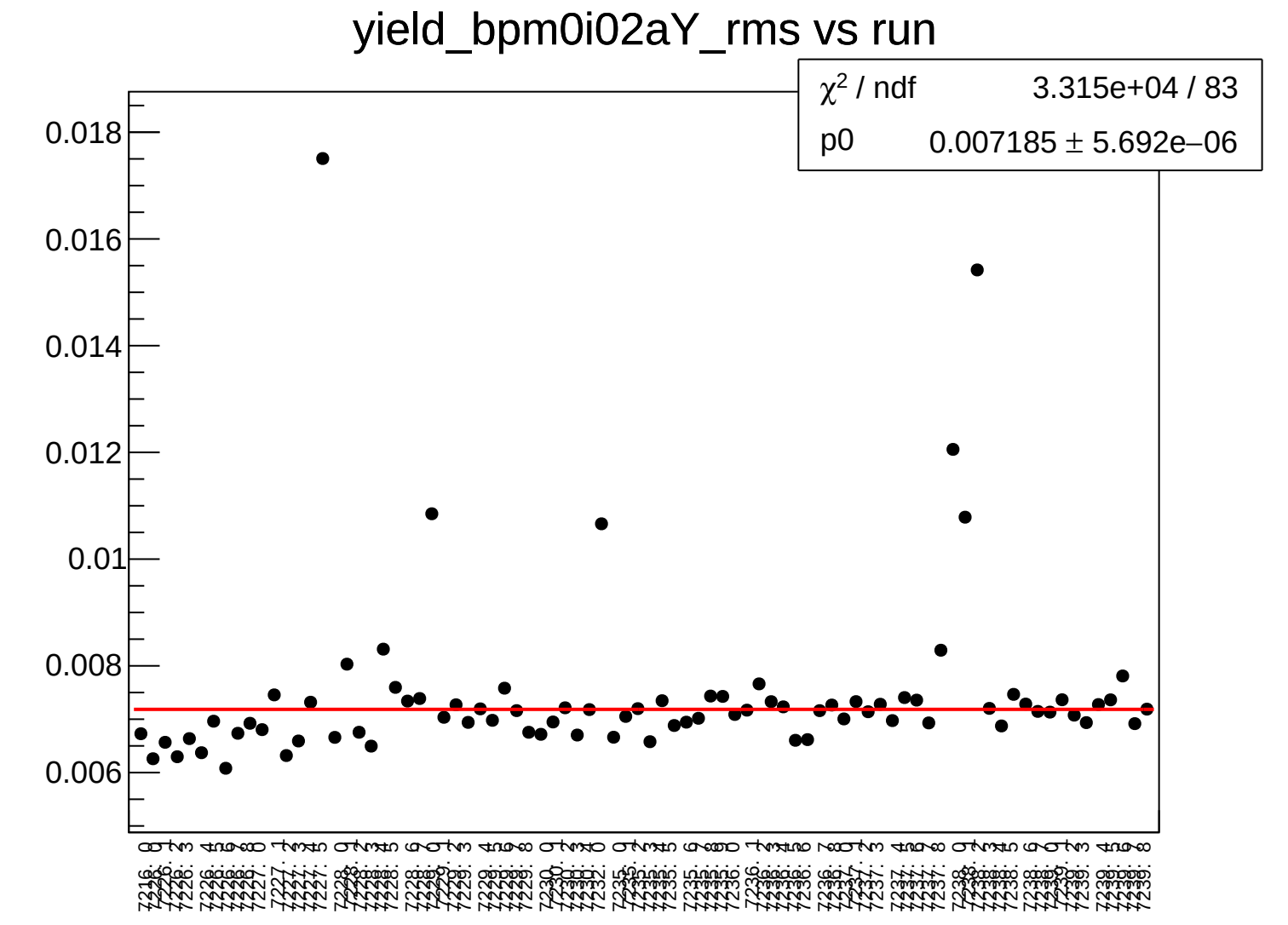

yield_bpm0i02aX_mean vs run
χ² / ndf 3.05e+06 / 83
p0 1.753 ± 1.121e−05
1.86
1.84
1.82
1.8
1.78
1.76
1.74
1.72
pull
Entries 84
Mean 23.02
Std Dev 0
800
600
400
200
0
−200

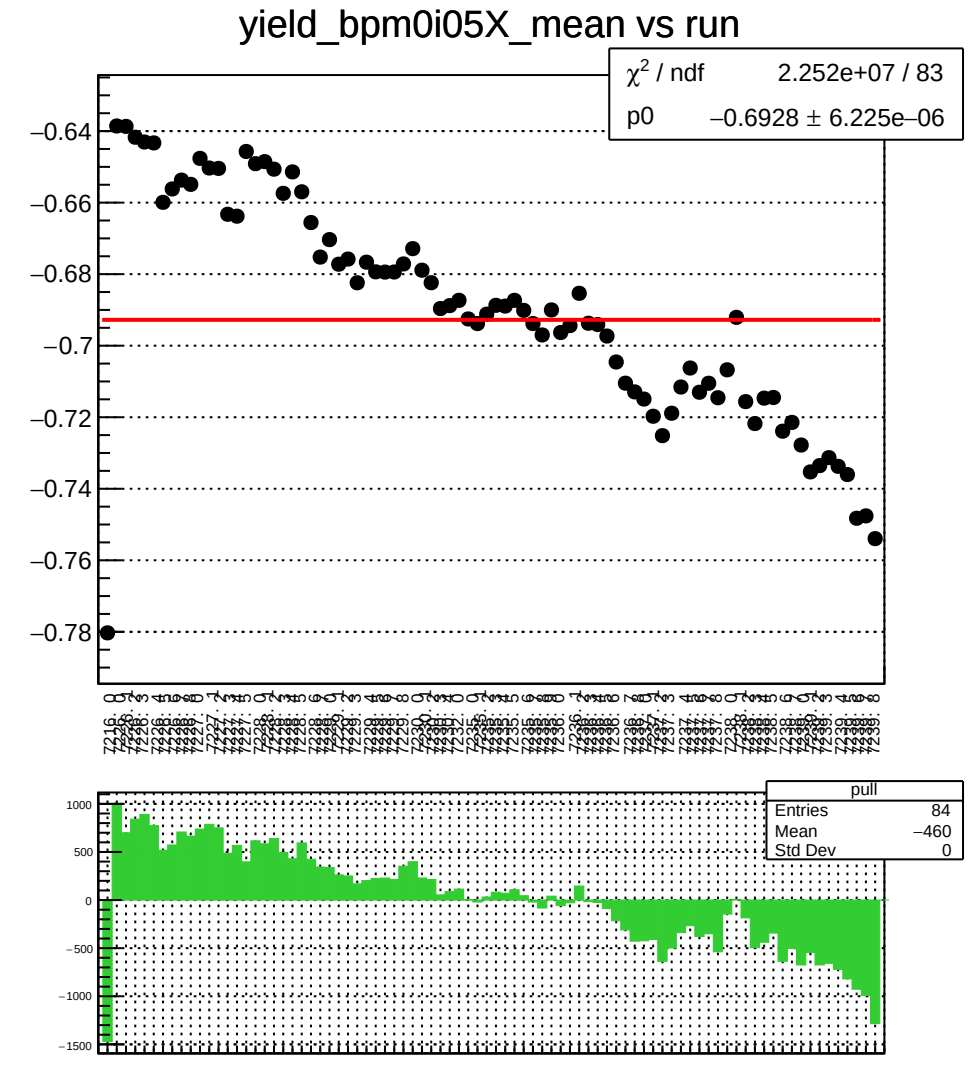

pull1D
Entries 84
Mean −1.816
Std Dev 5.246
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

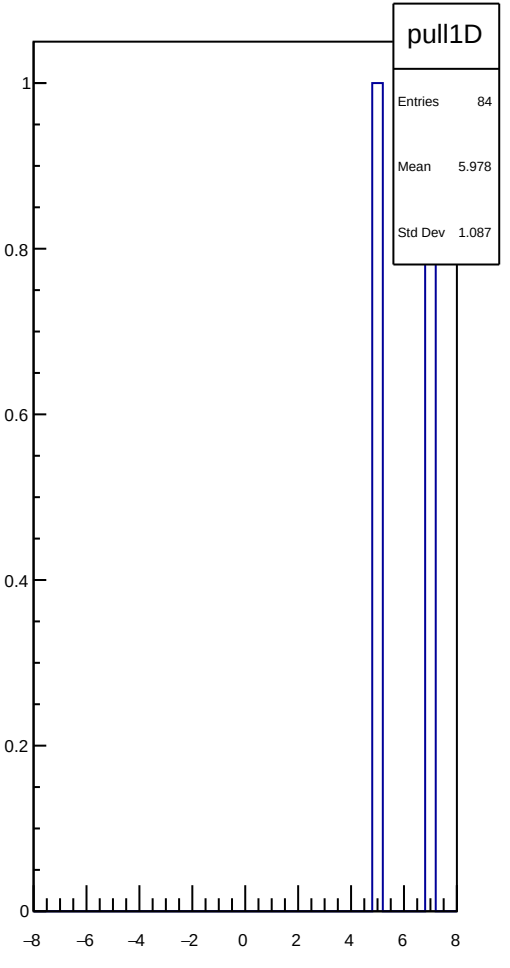

yield_bpm0i02aX_rms vs run
χ² / ndf 7174 / 83
p0 0.01009 ± 7.929e–06
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095
0.009
0.0085

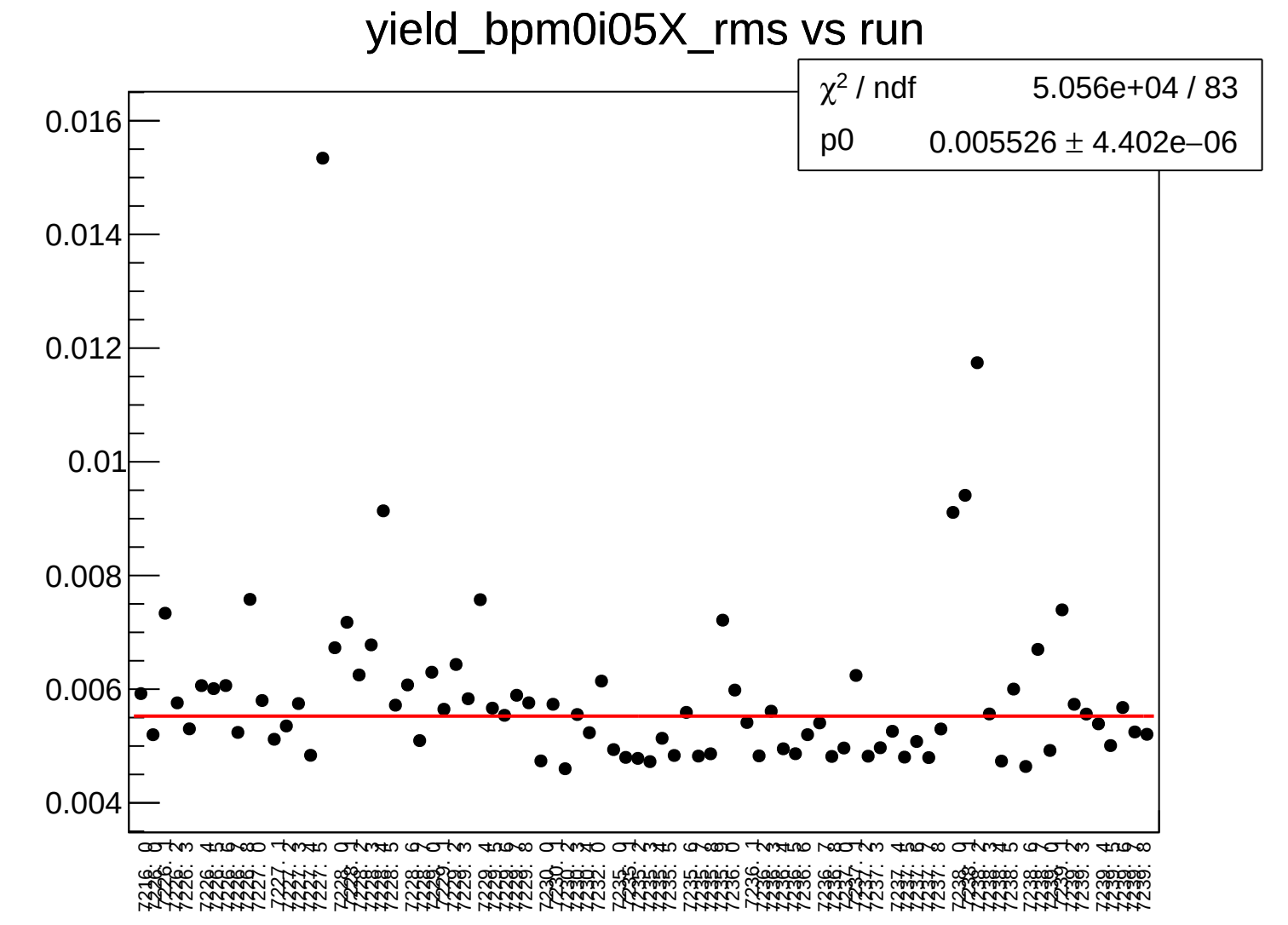

yield_bpm0i02aY_mean vs run
χ² / ndf 4.3e+06 / 83
p0 −1.306 ± 8.049e−06
−1.26
−1.28
−1.3
−1.32
−1.34
−1.36
pull
Entries 84
Mean 377.9
Std Dev 0
600
400
200
0
−200
−400

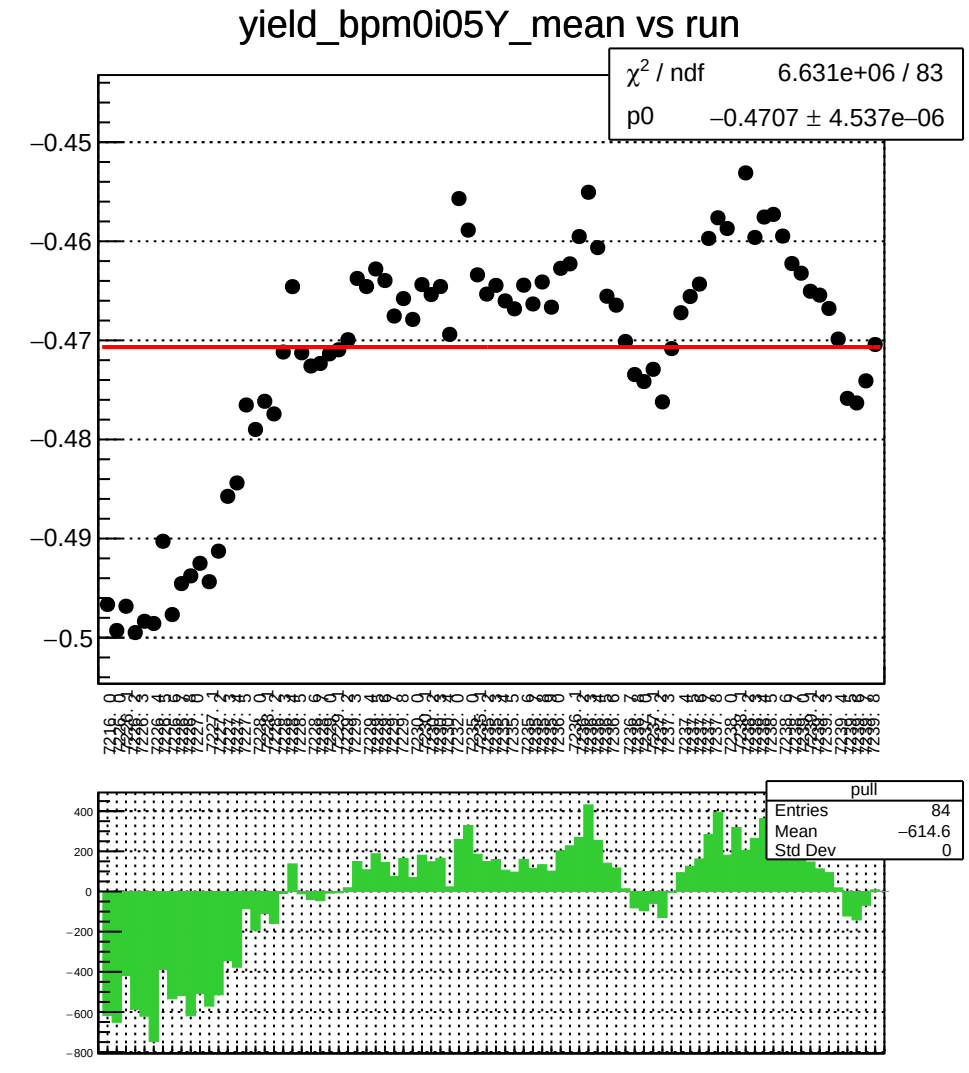

pull1D
Entries 84
Mean 0.6
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

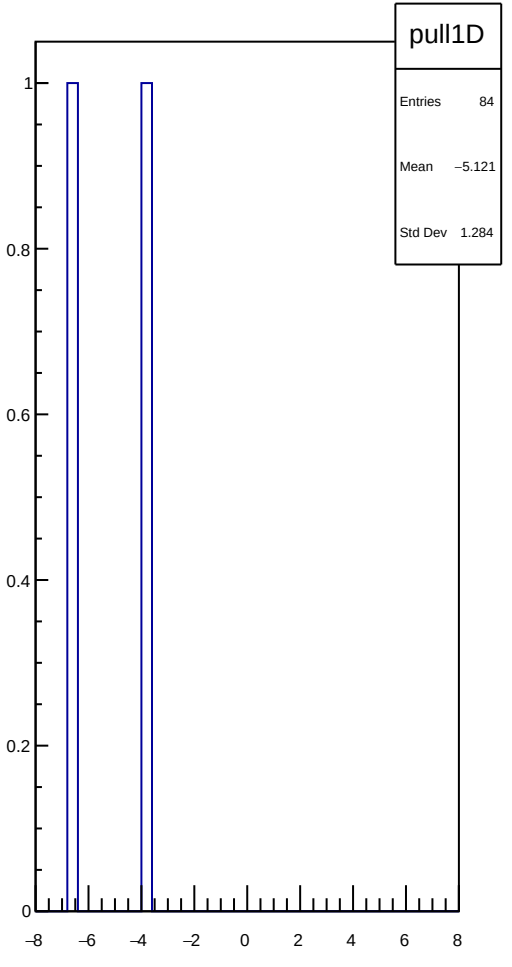

yield_bpm0i02aY_rms vs run
χ^2 / ndf 3.315e+04 / 83
p0 0.007185 ± 5.692e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006

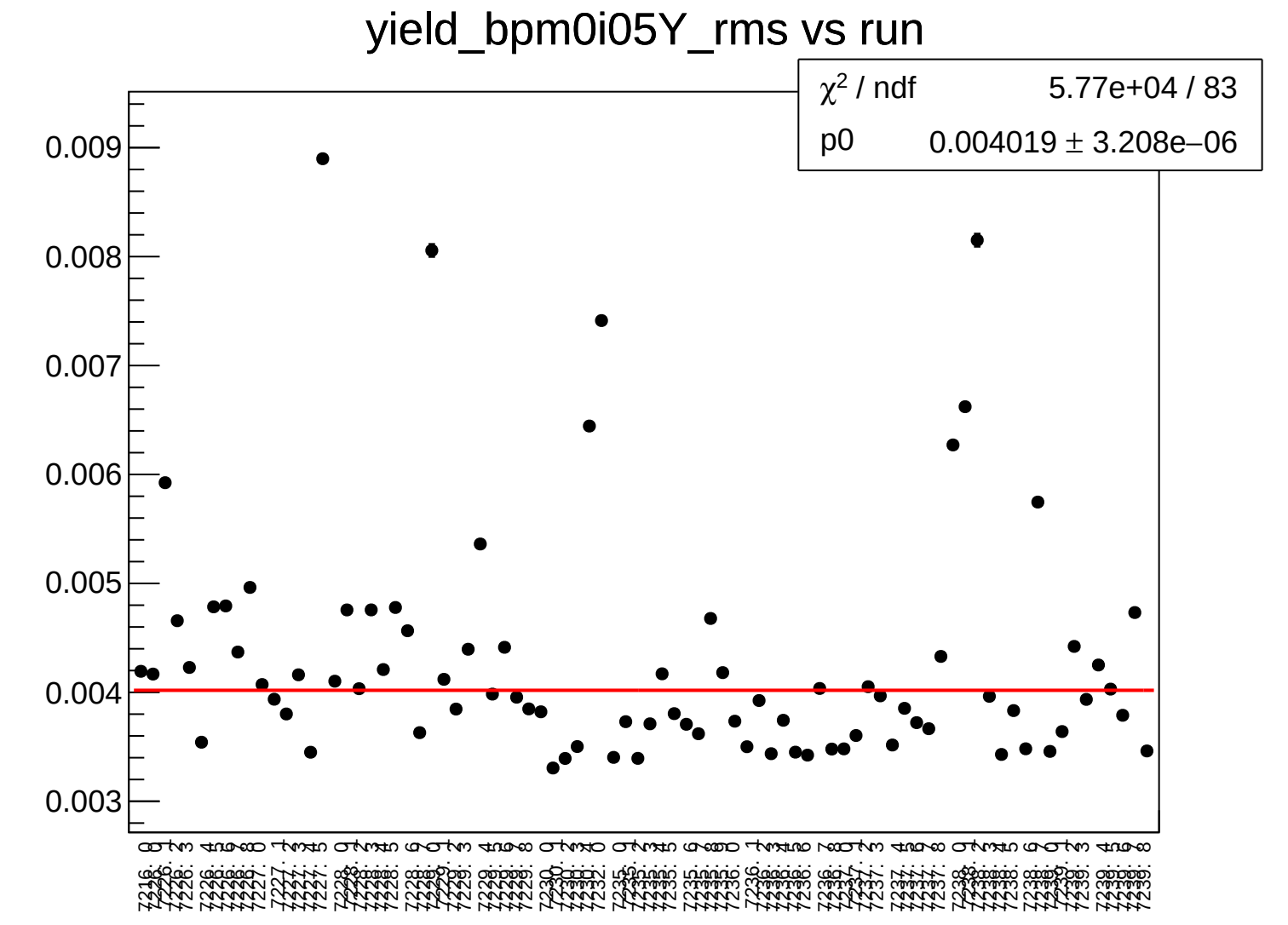

yield_bpm0i05X_mean vs run
χ² / ndf 2.252e+07 / 83
p0 −0.6928 ± 6.225e−06
−0.64
−0.66
−0.68
−0.7
−0.72
−0.74
−0.76
−0.78
pull
Entries 84
Mean −460
Std Dev 0
1000
500
0
−500
−1000
−1500

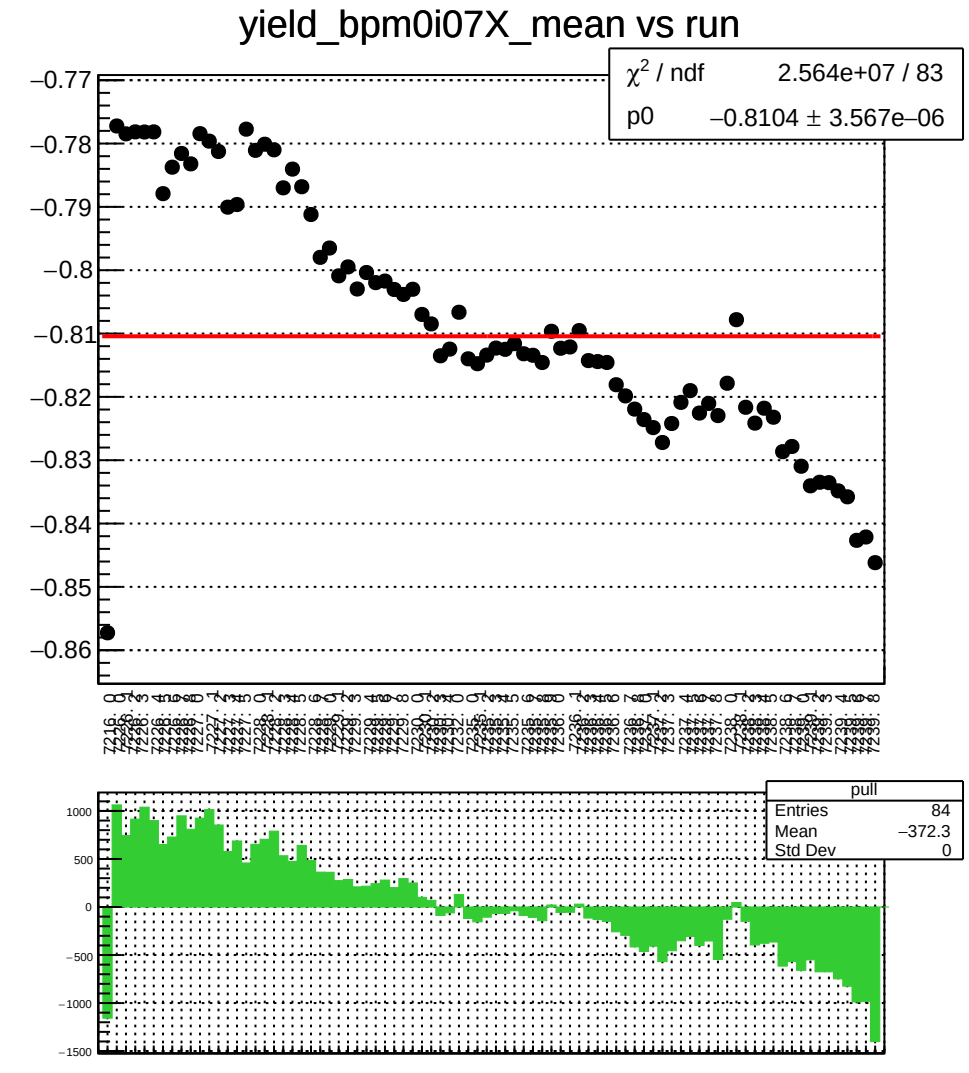

pull1D
Entries 84
Mean 5.978
Std Dev 1.087
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

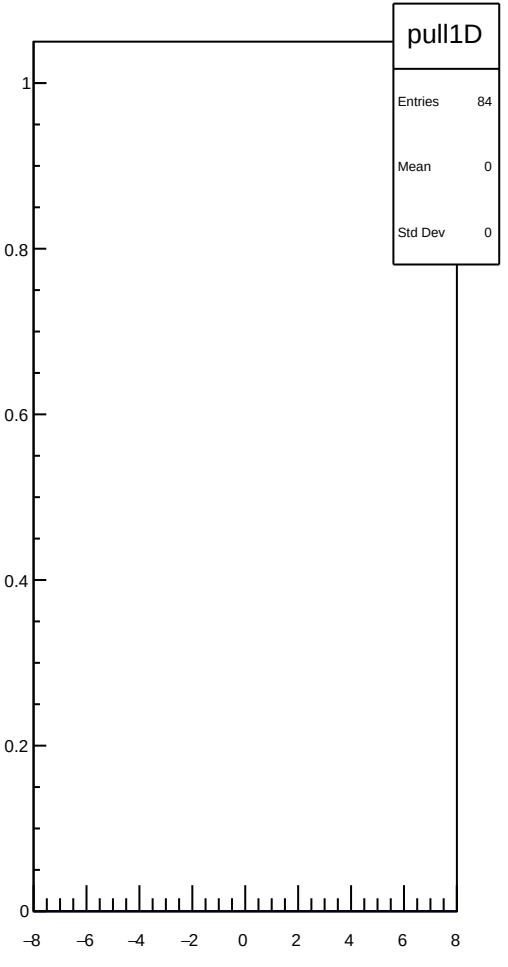

yield_bpm0i05X_rms vs run
χ^2 / ndf 5.056e+04 / 83
p0 0.005526 ± 4.402e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

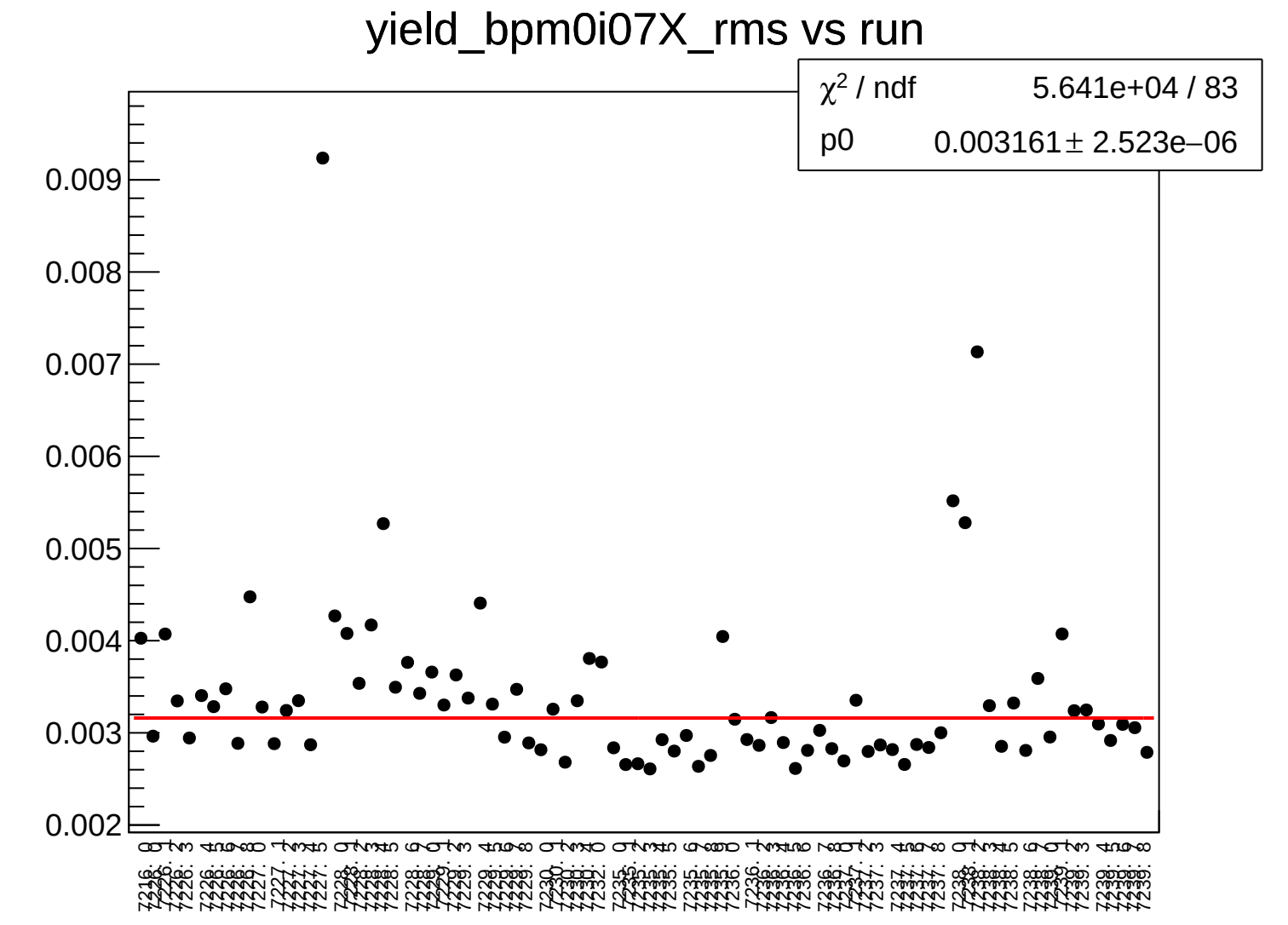

yield_bpm0i05Y_mean vs run
χ² / ndf 6.631e+06 / 83
p0 −0.4707 ± 4.537e−06
−0.45
−0.46
−0.47
−0.48
−0.49
−0.5
pull
Entries 84
Mean −614.6
Std Dev 0
400
200
0
−200
−400
−600
−800

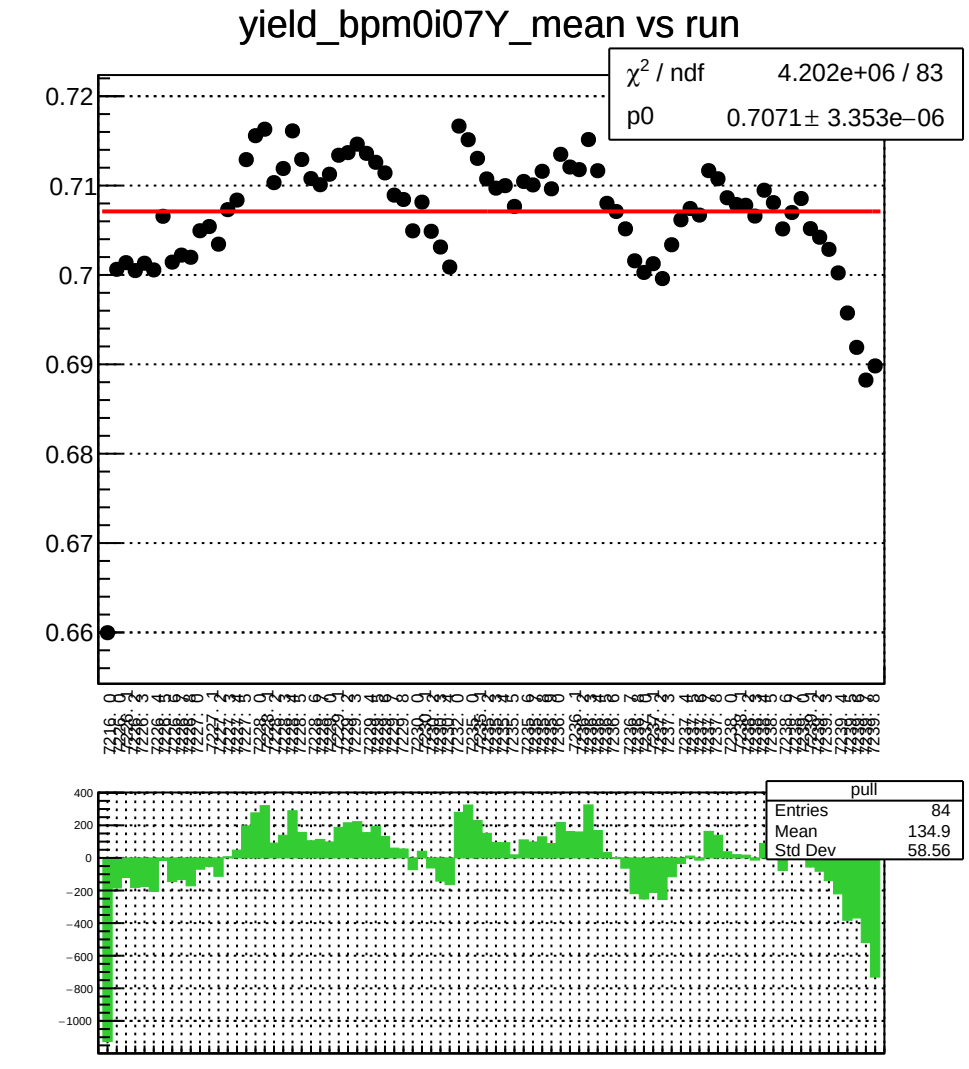

pull1D
Entries 84
Mean −5.121
Std Dev 1.284
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

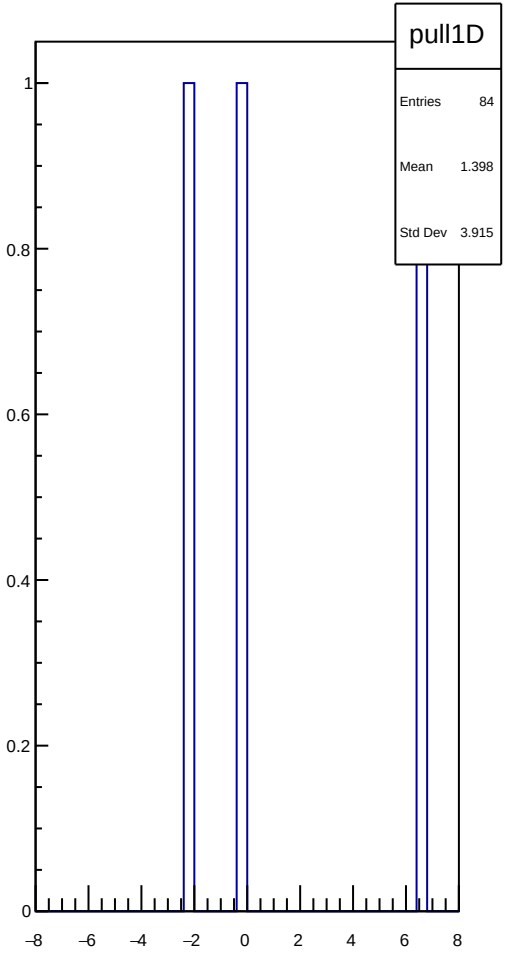

yield_bpm0i05Y_rms vs run
χ² / ndf 5.77e+04 / 83
p0 0.004019 ± 3.208e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003

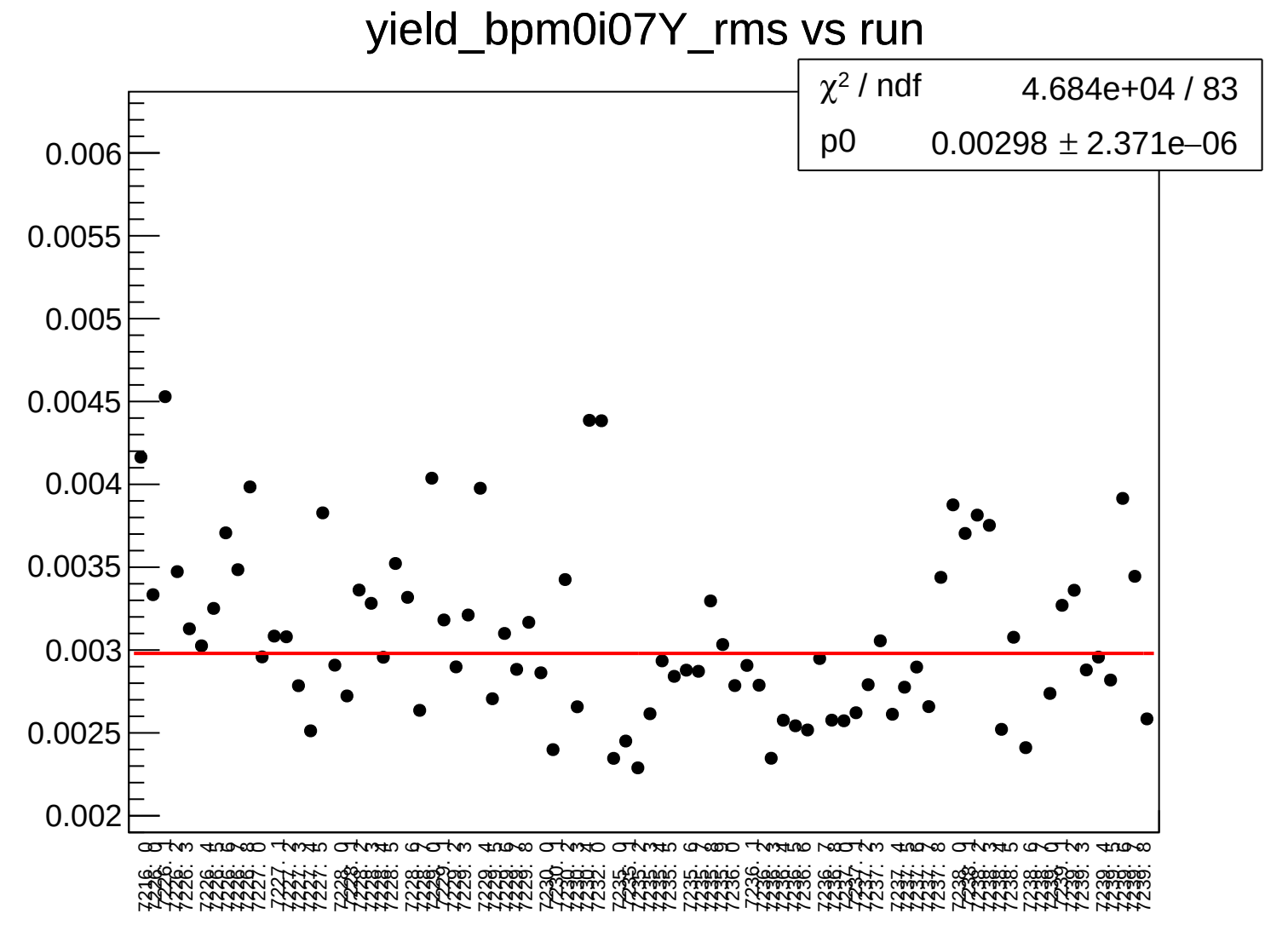

yield_bpm0i07X_mean vs run
χ² / ndf 2.564e+07 / 83
p0 −0.8104 ± 3.567e−06
−0.77
−0.78
−0.79
−0.8
−0.81
−0.82
−0.83
−0.84
−0.85
−0.86
pull
Entries 84
Mean −372.3
Std Dev 0
1000
500
0
−500
−1000
−1500

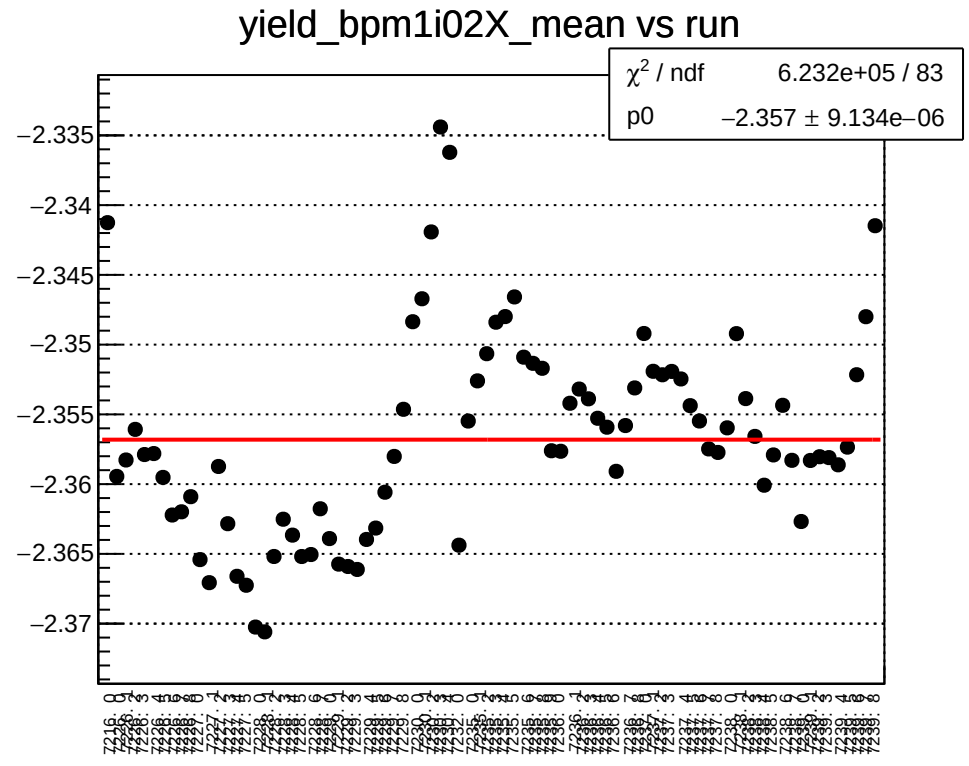

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

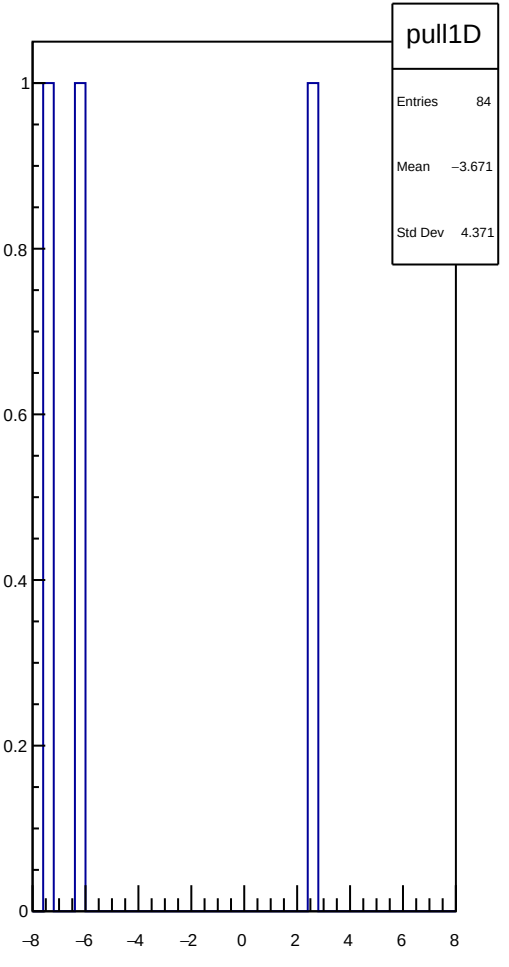

yield_bpm0i07X_rms vs run
χ² / ndf 5.641e+04 / 83
p0 0.003161 ± 2.523e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

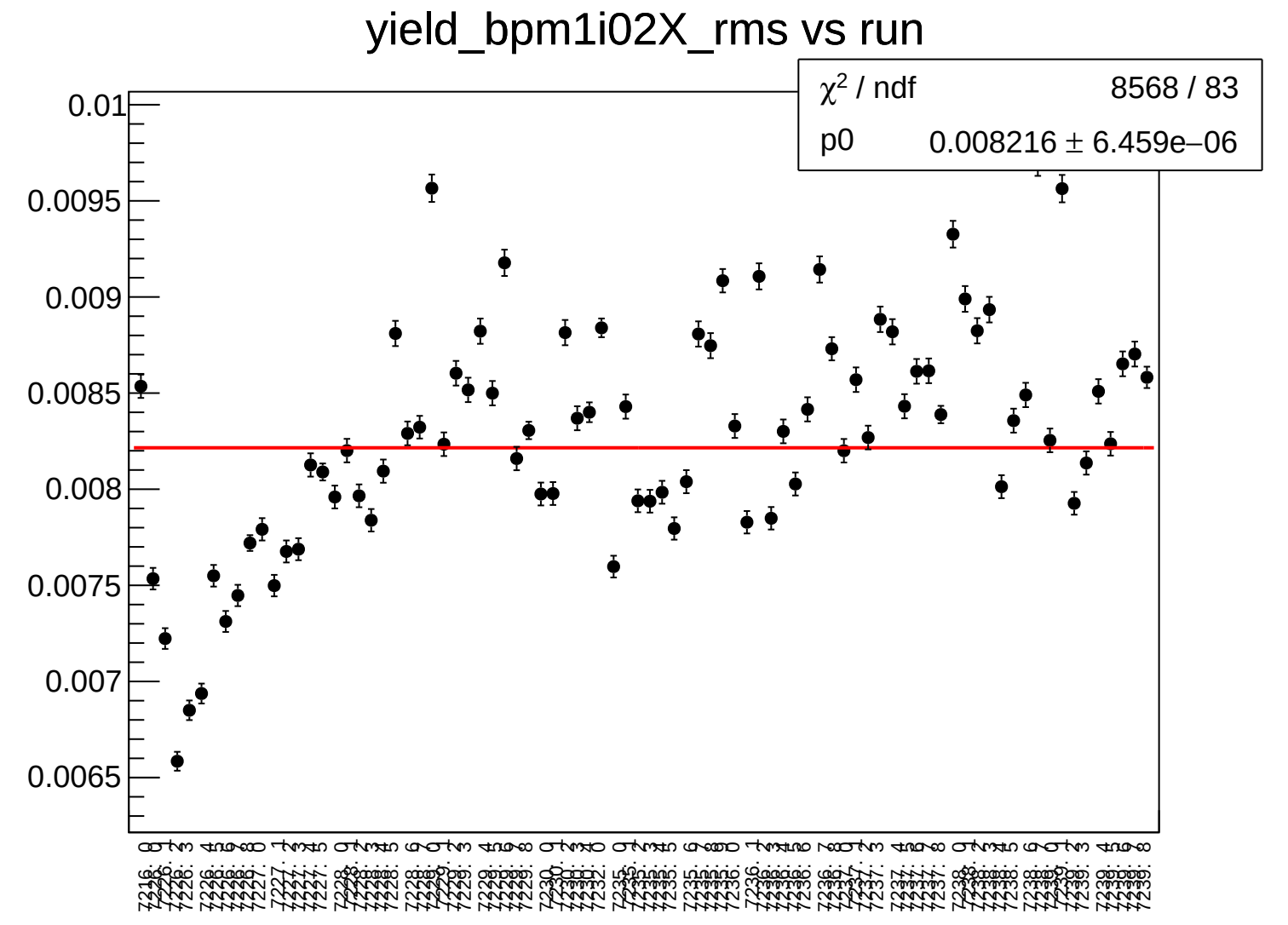

yield_bpm0i07Y_mean vs run
χ² / ndf 4.202e+06 / 83
p0 0.7071 ± 3.353e−06
0.72
0.71
0.7
0.69
0.68
0.67
0.66
pull
Entries 84
Mean 134.9
Std Dev 58.56
400
200
0
−200
−400
−600
−800
−1000

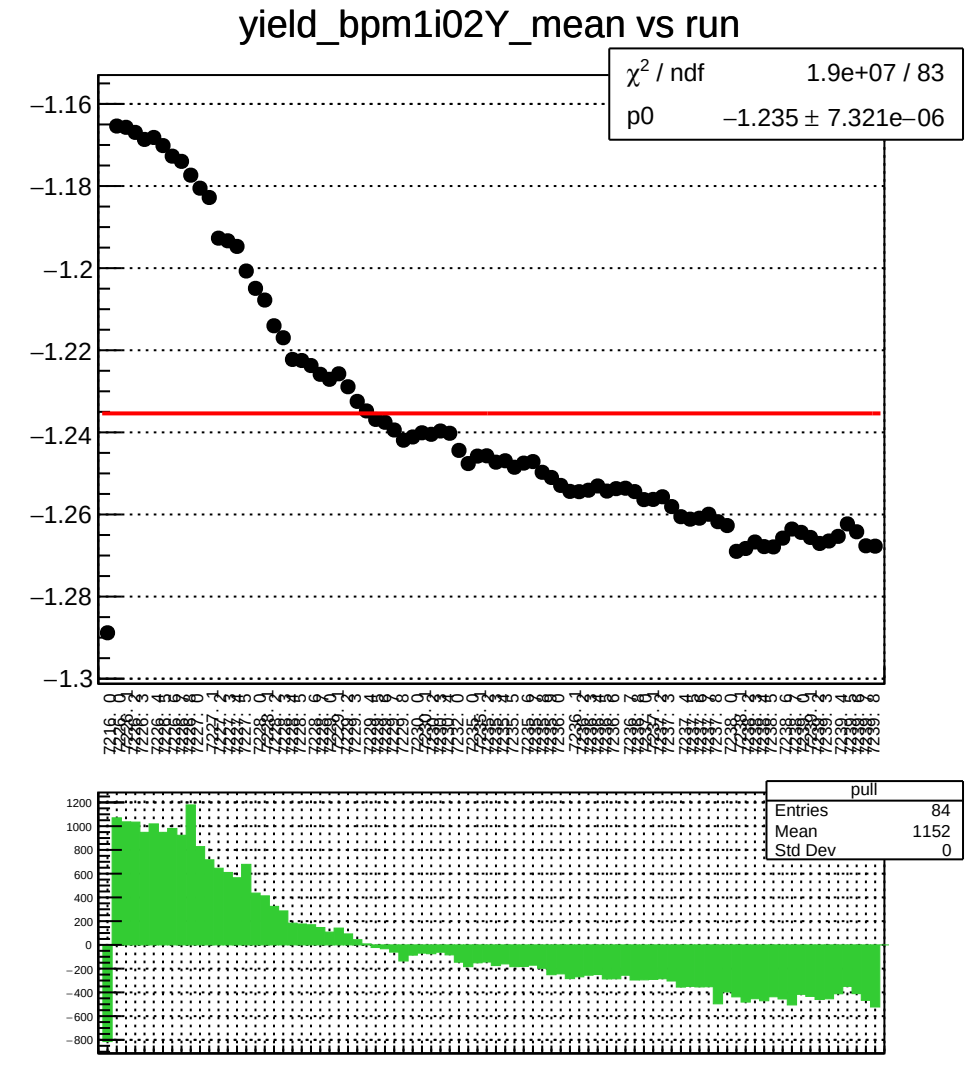

pull1D
Entries 84
Mean 1.398
Std Dev 3.915
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

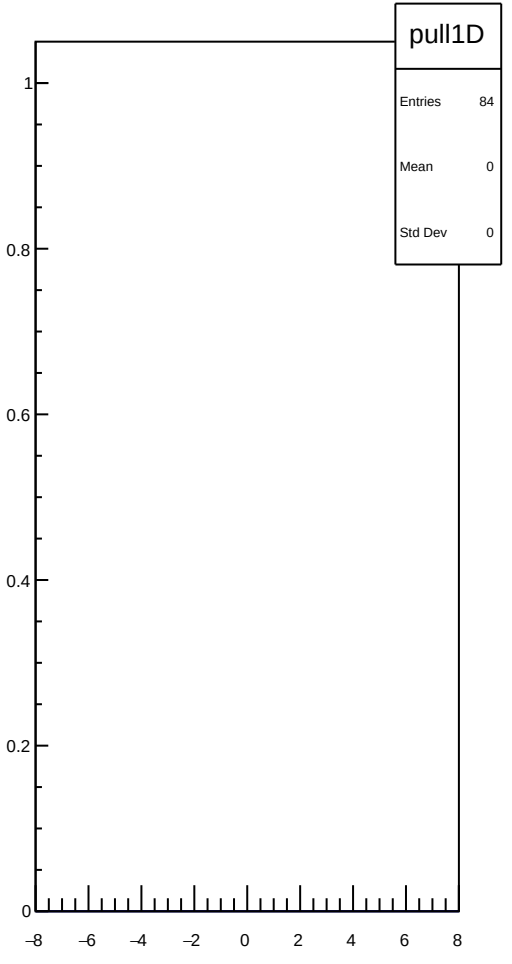

yield_bpm0i07Y_rms vs run
χ² / ndf 4.684e+04 / 83
p0 0.00298 ± 2.371e–06
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

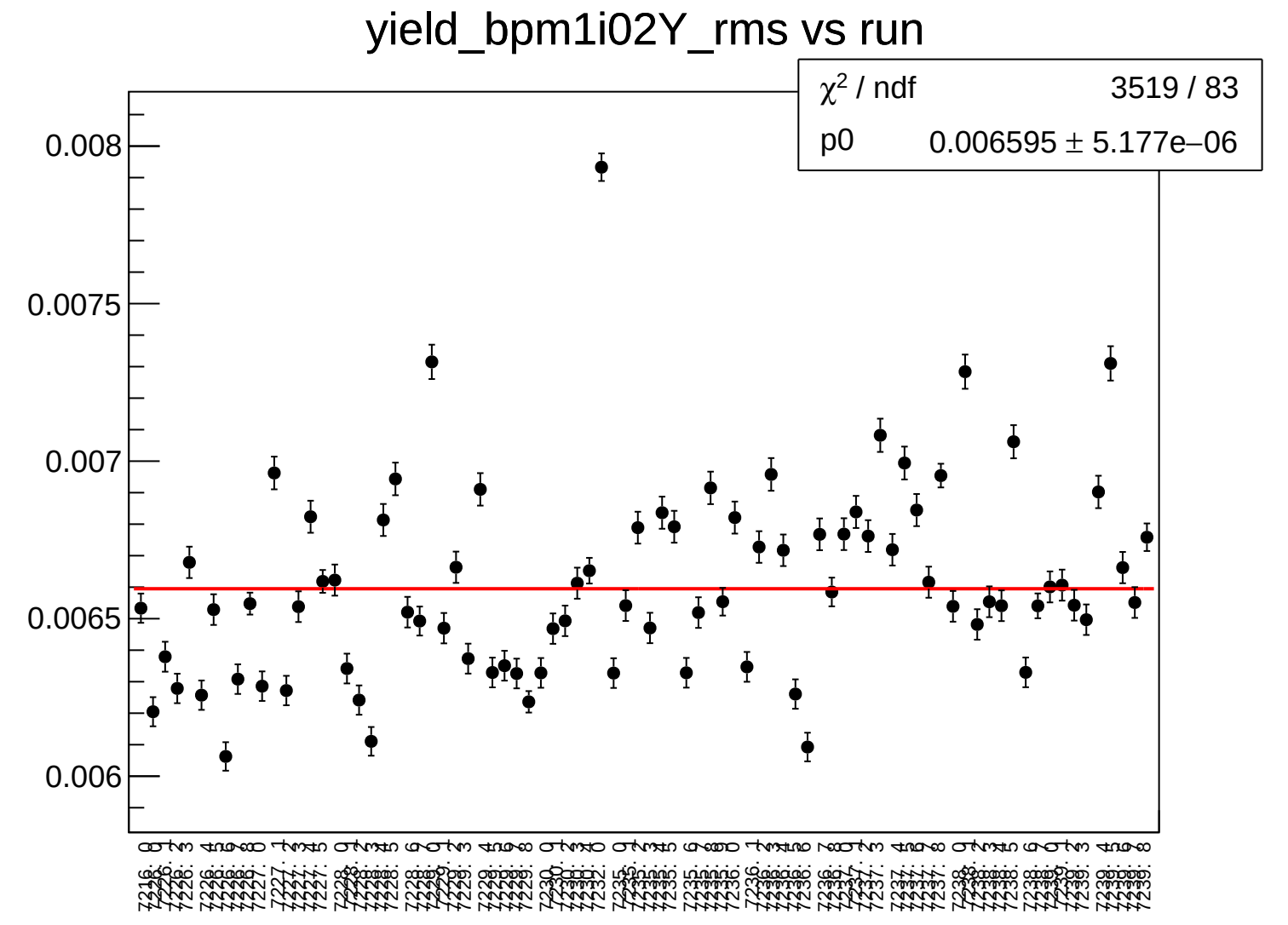

yield_bpm1i02X_mean vs run
χ² / ndf 6.232e+05 / 83
p0 −2.357 ± 9.134e−06
−2.335
−2.34
−2.345
−2.35
−2.355
−2.36
−2.365
−2.37
pull
Entries 84
Mean 639.1
Std Dev 0
300
250
200
150
100
50
0
−50
−100
−150

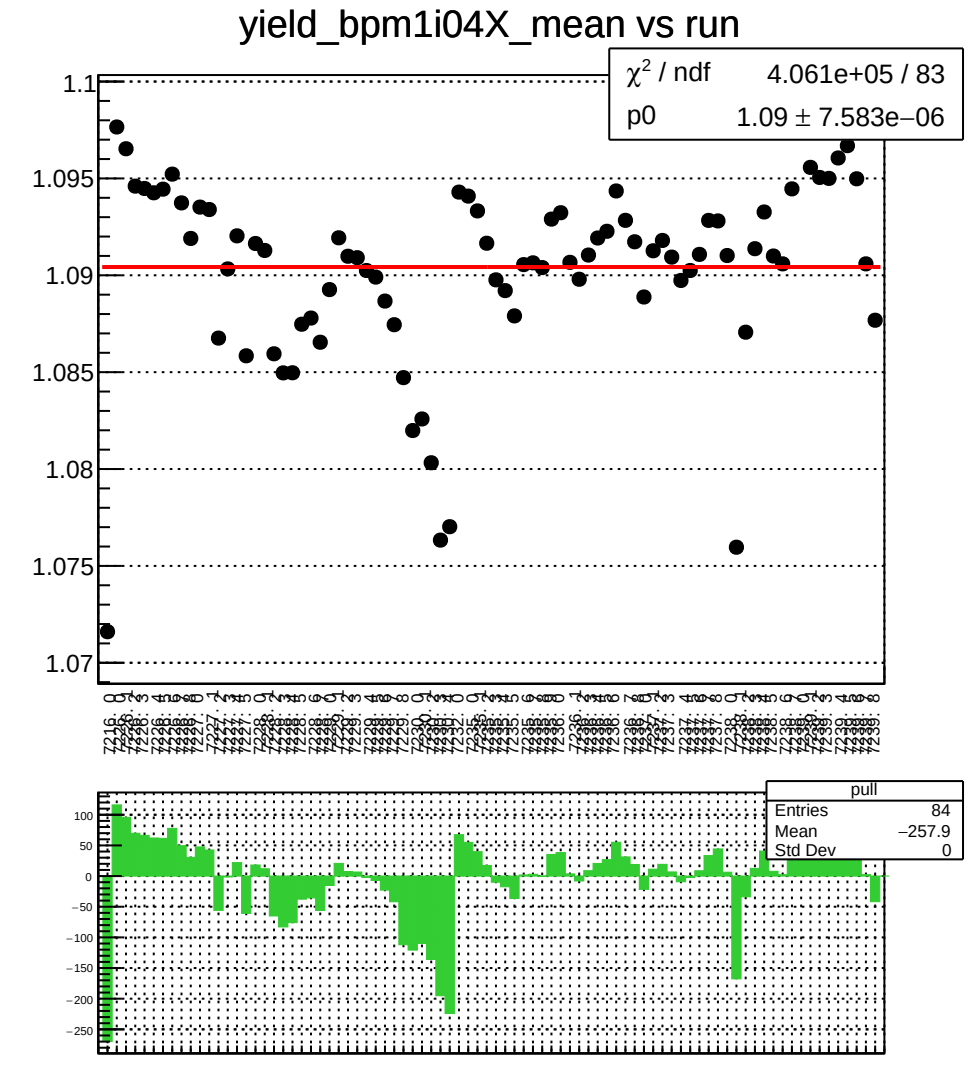

pull1D
Entries 84
Mean −3.671
Std Dev 4.371
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

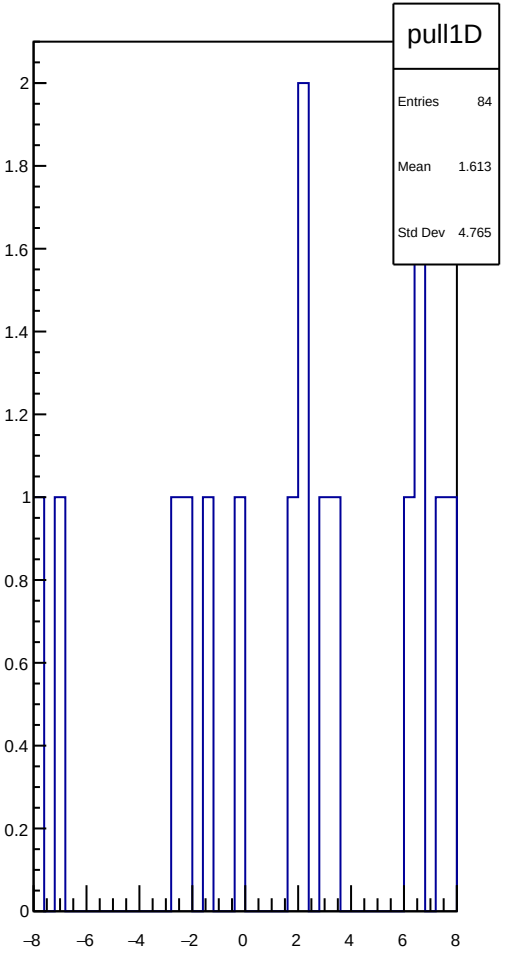

yield_bpm1i02X_rms vs run
χ² / ndf 8568 / 83
p0 0.008216 ± 6.459e−06
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065

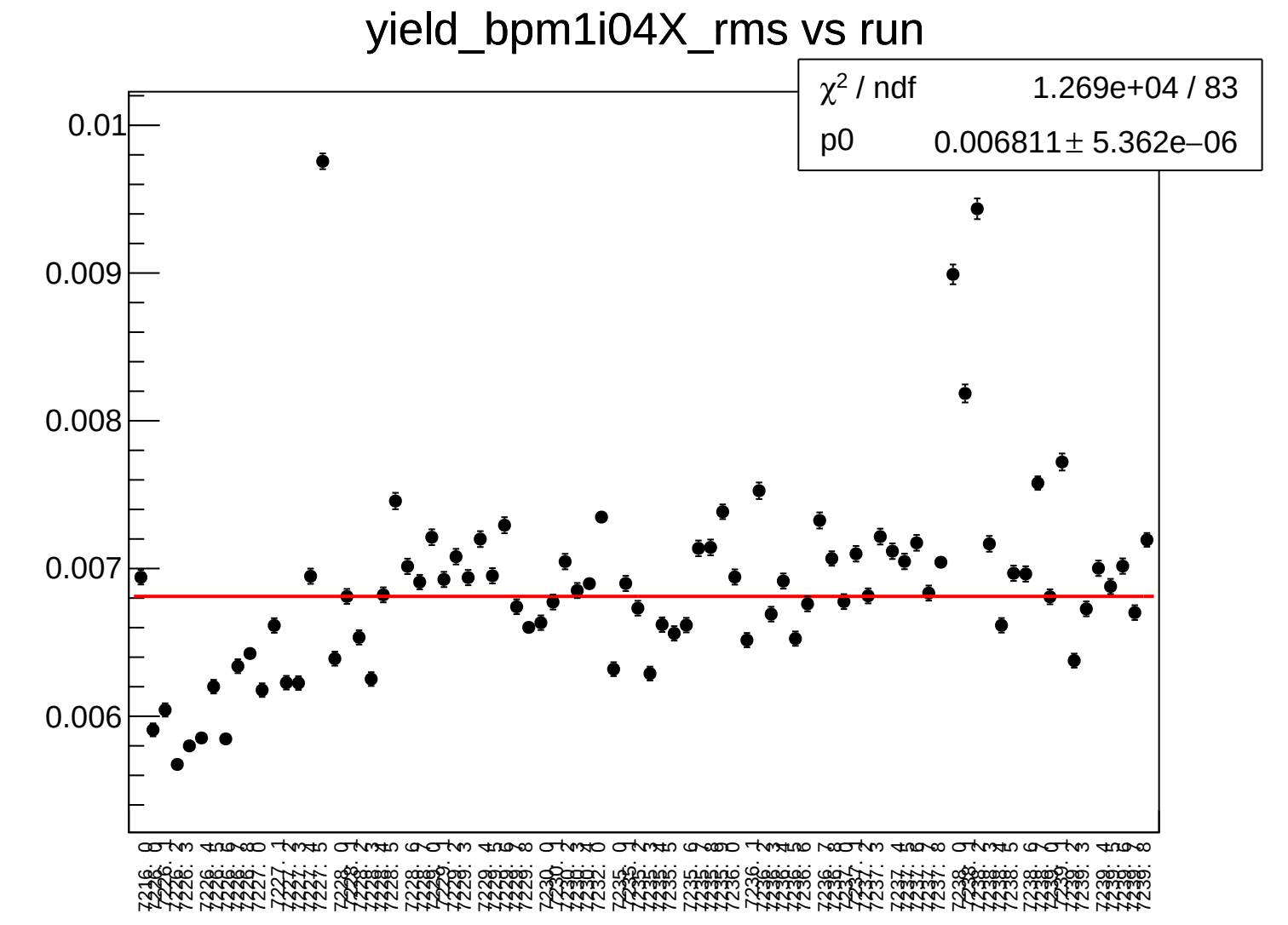

yield_bpm1i02Y_mean vs run
χ² / ndf 1.9e+07 / 83
p0 −1.235 ± 7.321e−06
−1.16
−1.18
−1.2
−1.22
−1.24
−1.26
−1.28
−1.3
pull
Entries 84
Mean 1152
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400
−600
−800

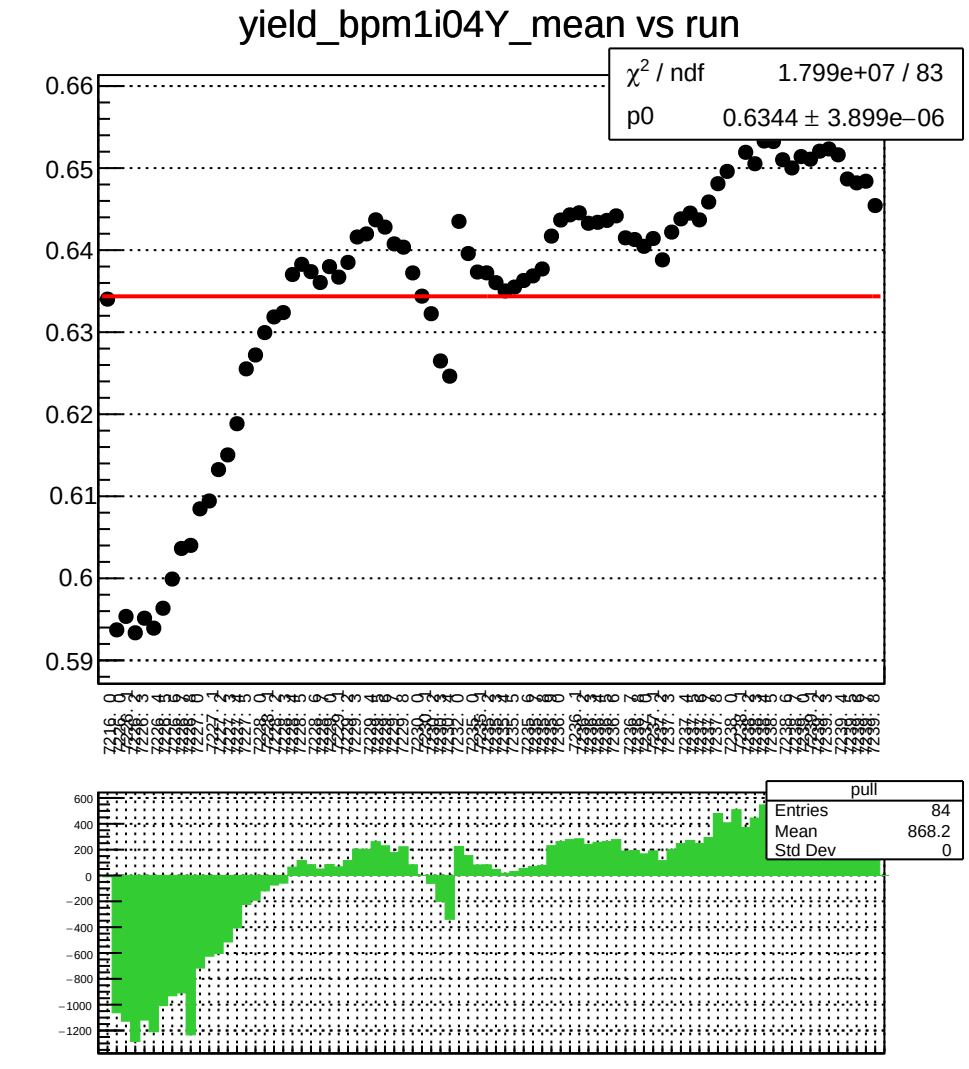

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

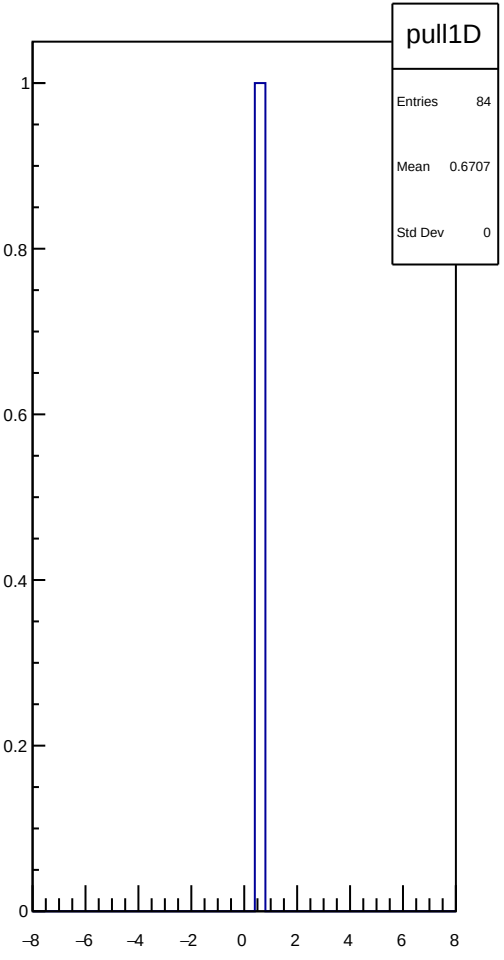

yield_bpm1i02Y_rms vs run
χ² / ndf 3519 / 83
p0 0.006595 ± 5.177e−06
0.008
0.0075
0.007
0.0065
0.006

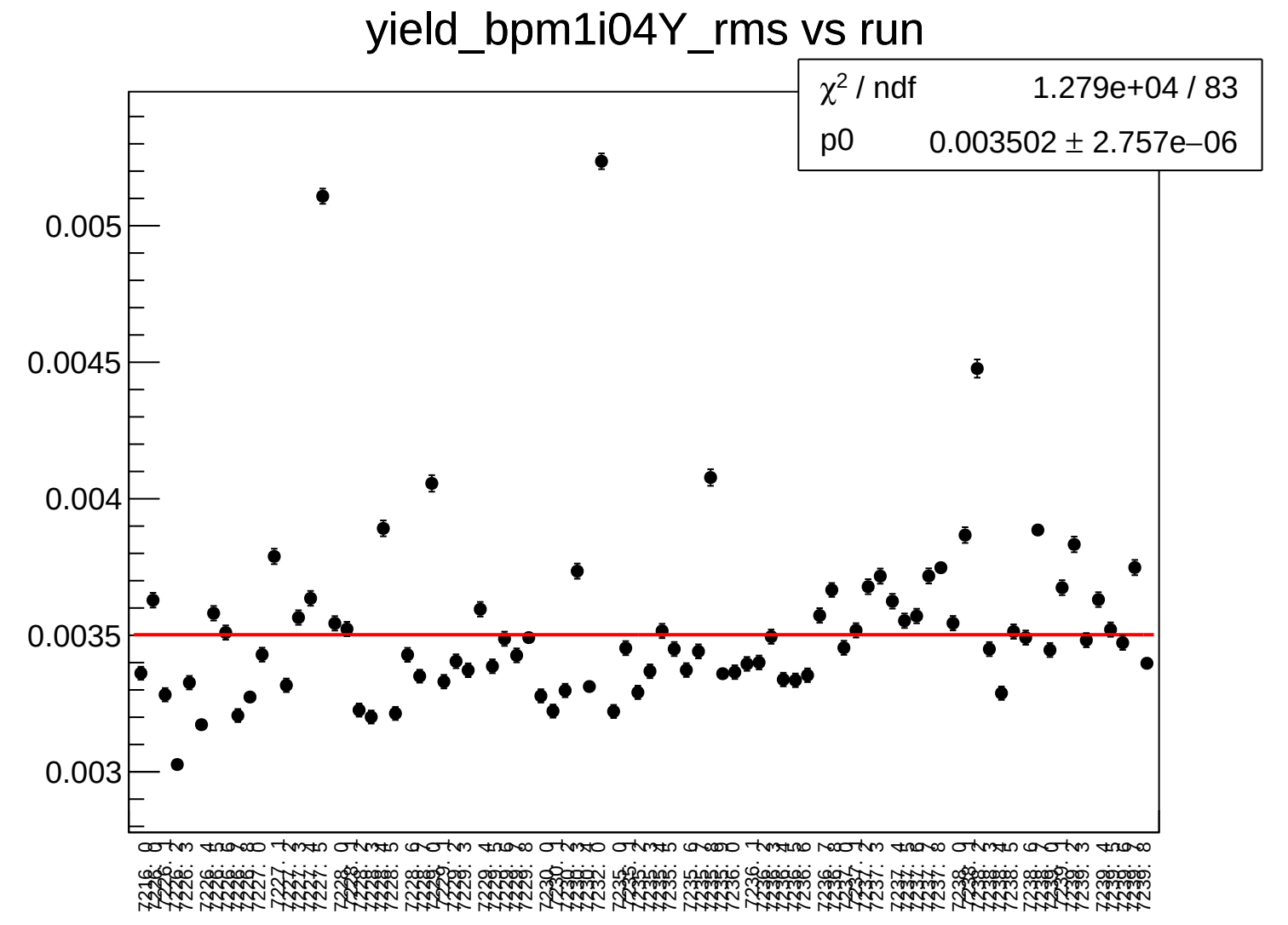

yield_bpm1i04X_mean vs run
χ² / ndf 4.061e+05 / 83
p0 1.09 ± 7.583e−06
1.1
1.095
1.09
1.085
1.08
1.075
1.07
pull
Entries 84
Mean −257.9
Std Dev 0
100
50
0
−50
−100
−150
−200
−250

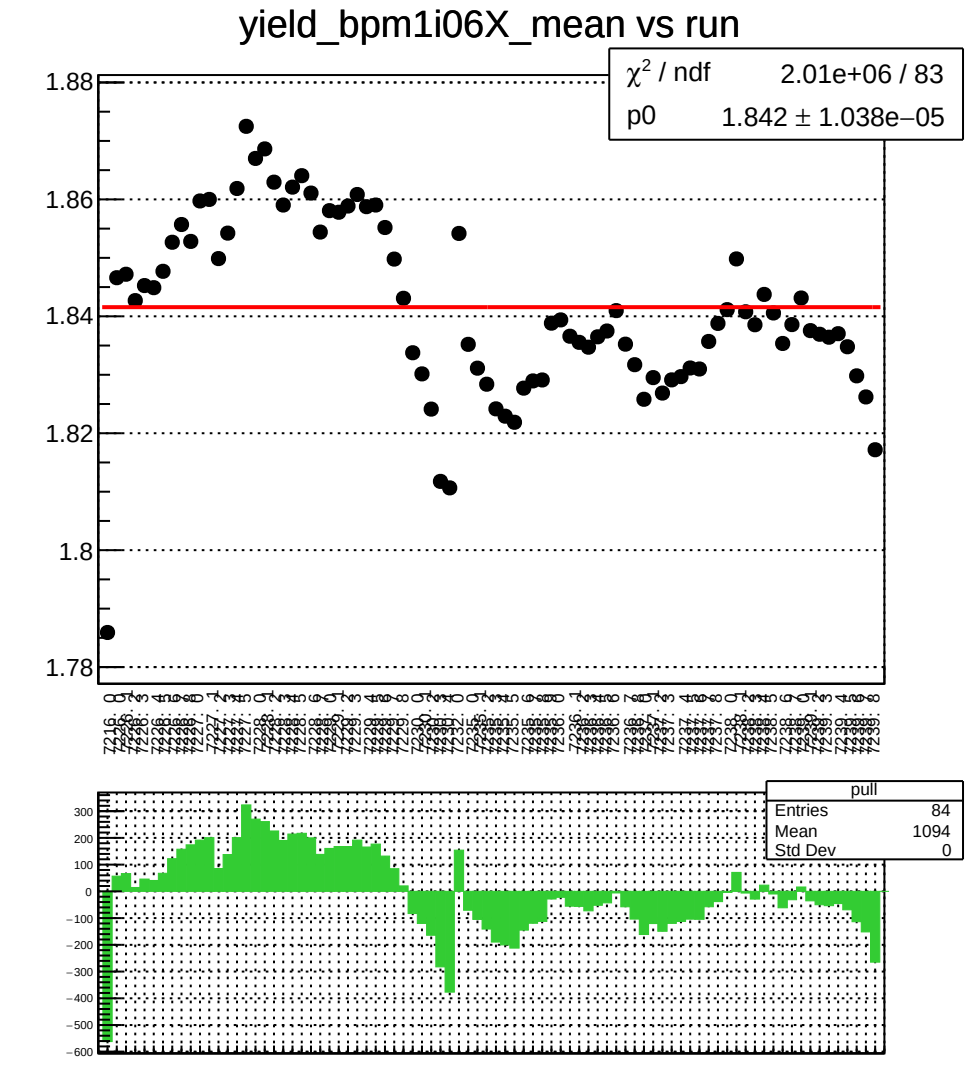

pull1D
Entries 84
Mean 1.613
Std Dev 4.765
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

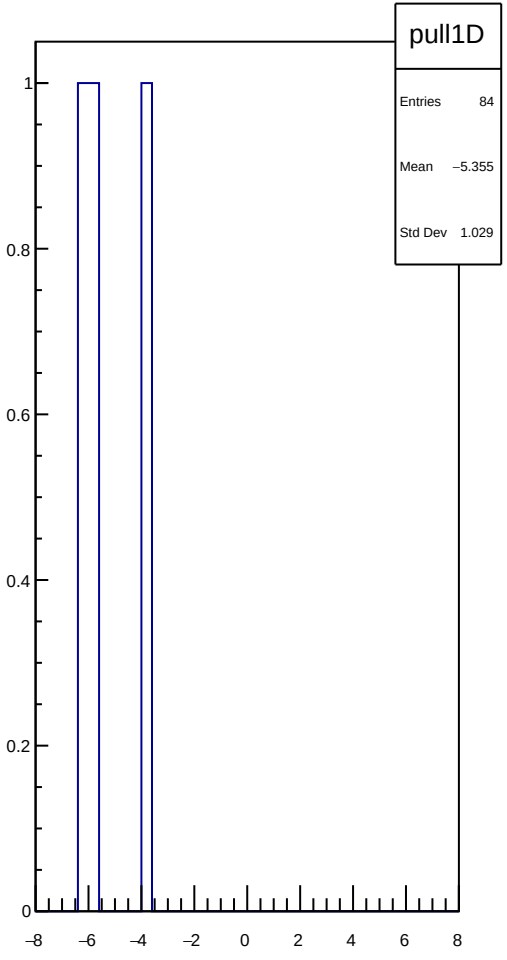

yield_bpm1i04X_rms vs run
χ^2 / ndf 1.269e+04 / 83
p0 0.006811 ± 5.362e−06
0.01
0.009
0.008
0.007
0.006

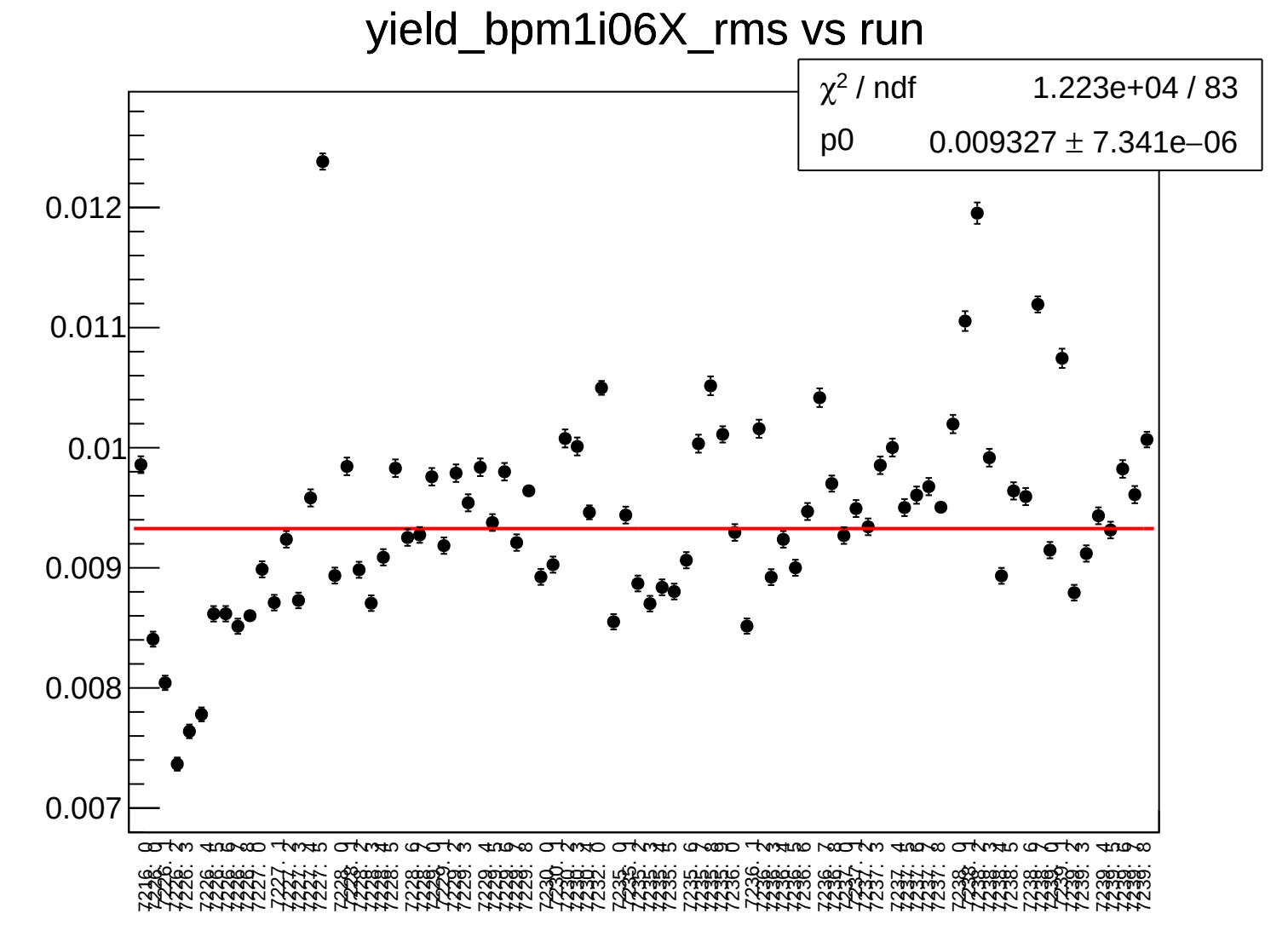

yield_bpm1i04Y_mean vs run
χ² / ndf 1.799e+07 / 83
p0 0.6344 ± 3.899e−06
pull
Entries 84
Mean 868.2
Std Dev 0

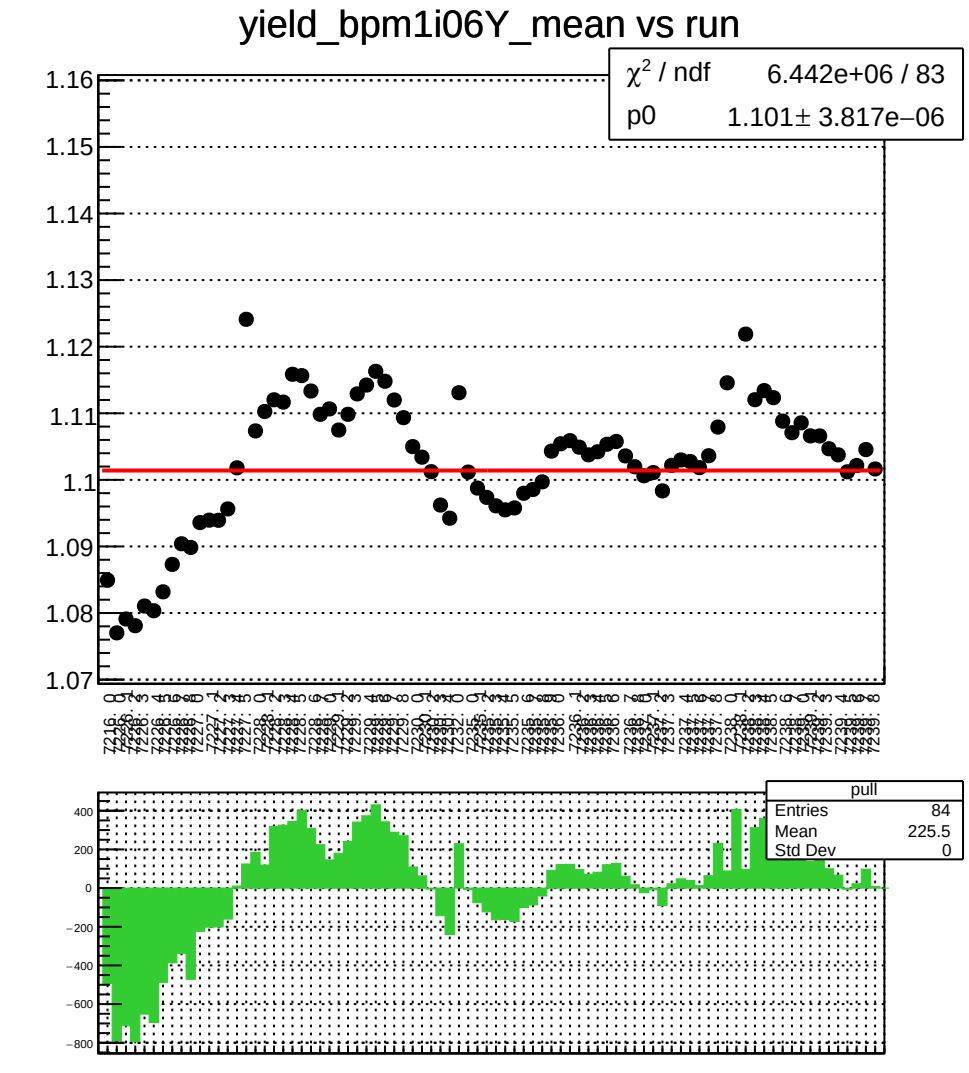

pull1D
Entries 84
Mean 0.6707
Std Dev 0

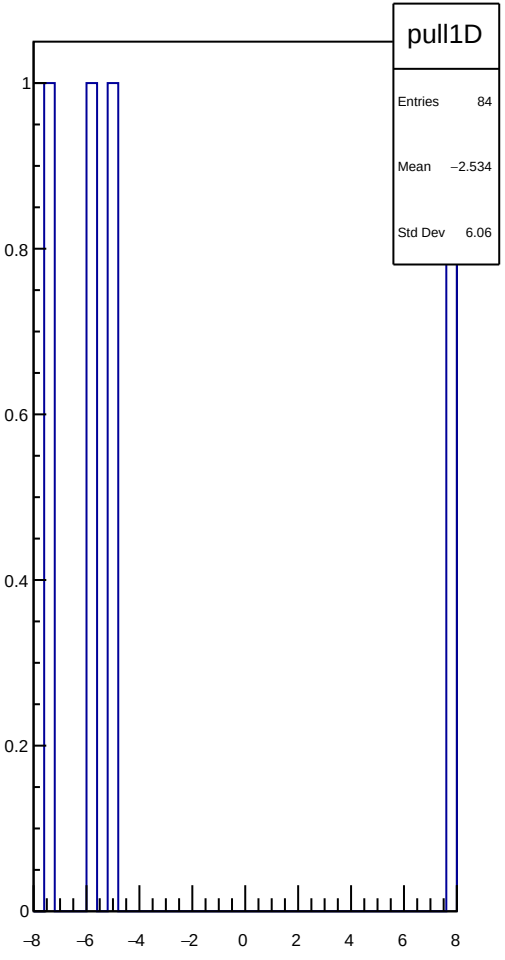

yield_bpm1i04Y_rms vs run
χ² / ndf 1.279e+04 / 83
p0 0.003502 ± 2.757e−06
0.005
0.0045
0.004
0.0035
0.003

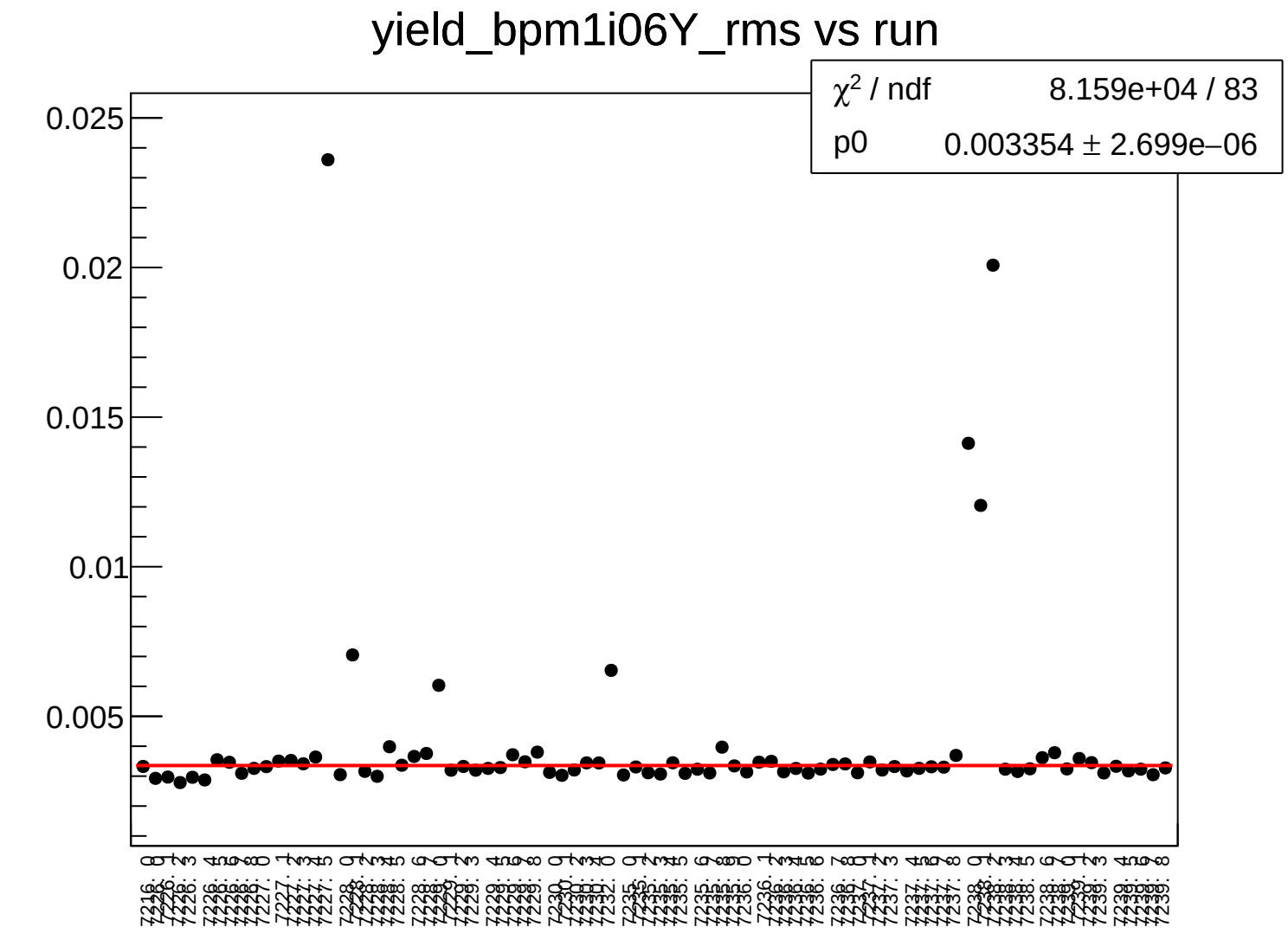

yield_bpm1i06X_mean vs run
χ² / ndf 2.01e+06 / 83
p0 1.842 ± 1.038e−05
1.88
1.86
1.84
1.82
1.8
1.78
pull
Entries 84
Mean 1094
Std Dev 0
300
200
100
0
−100
−200
−300
−400
−500
−600

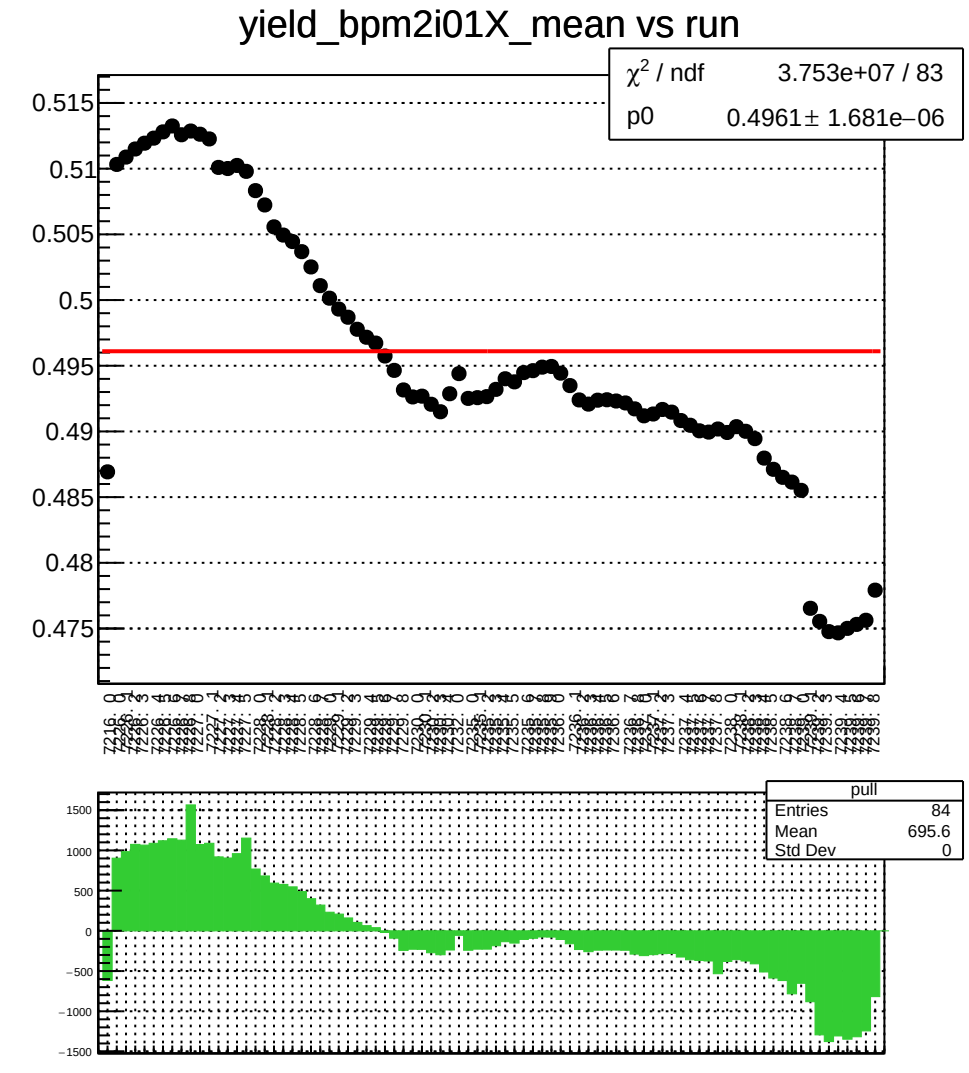

pull1D
Entries 84
Mean −5.355
Std Dev 1.029
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

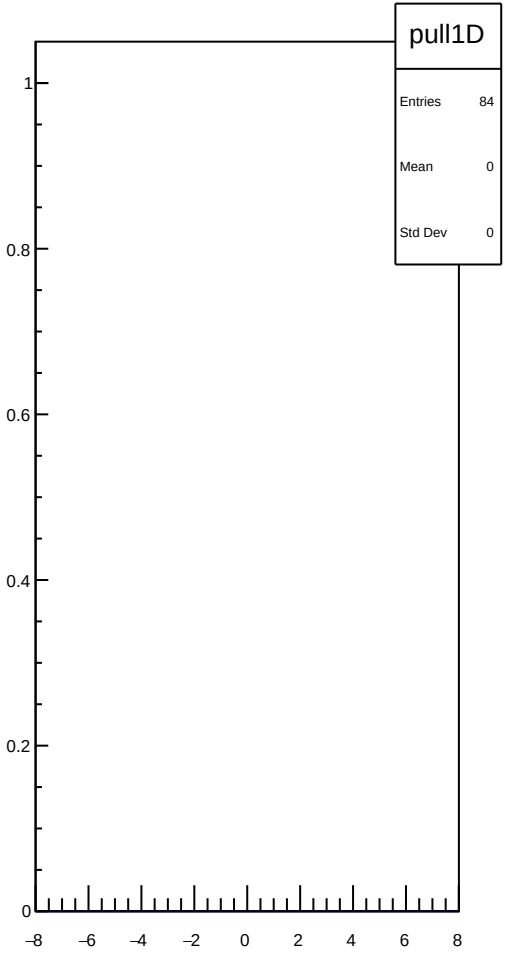

yield_bpm1i06X_rms vs run
χ² / ndf 1.223e+04 / 83
p0 0.009327 ± 7.341e−06
0.012
0.011
0.01
0.009
0.008
0.007

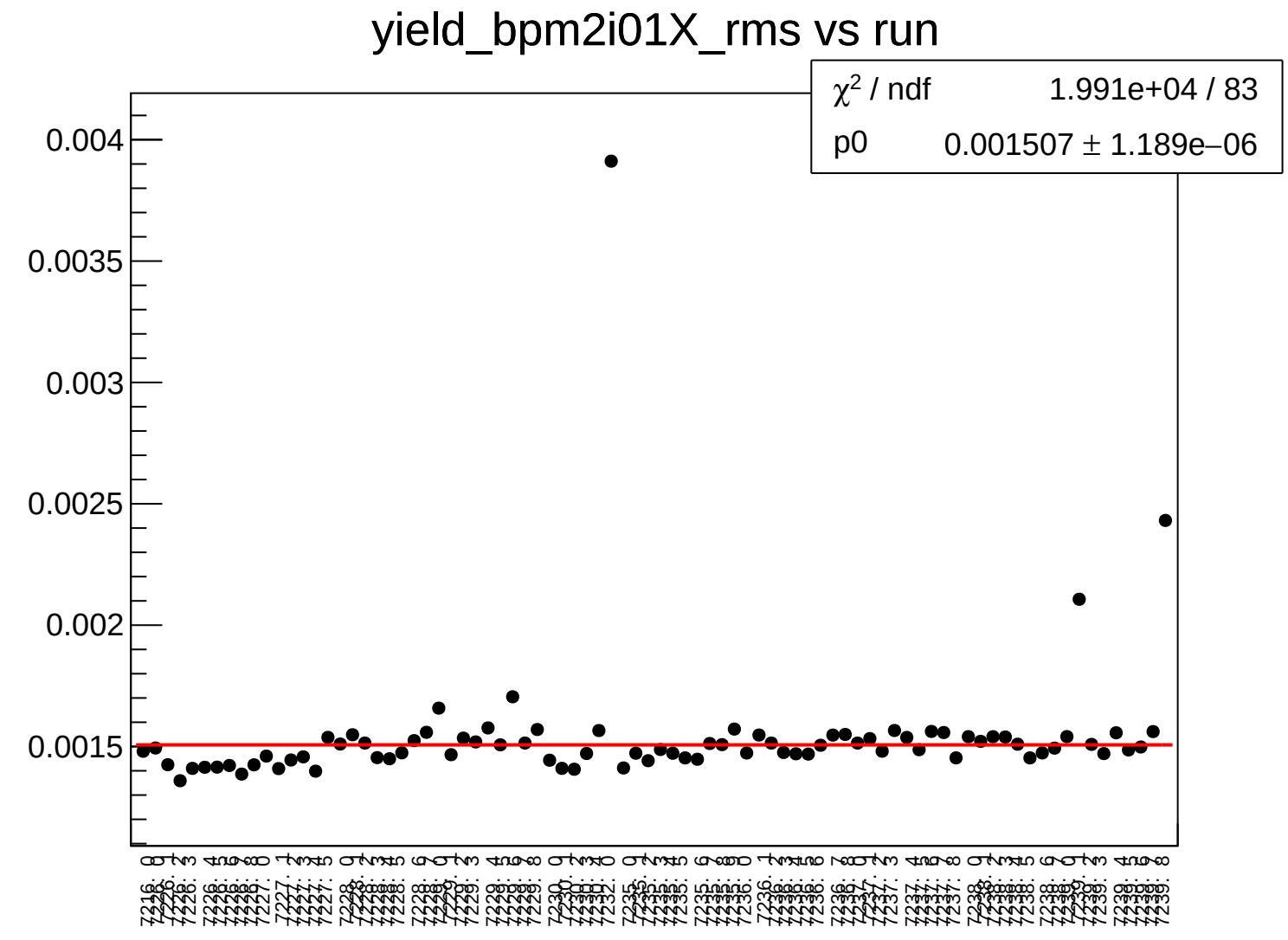

yield_bpm1i06Y_mean vs run
χ² / ndf 6.442e+06 / 83
p0 1.101± 3.817e−06
pull
Entries 84
Mean 225.5
Std Dev 0

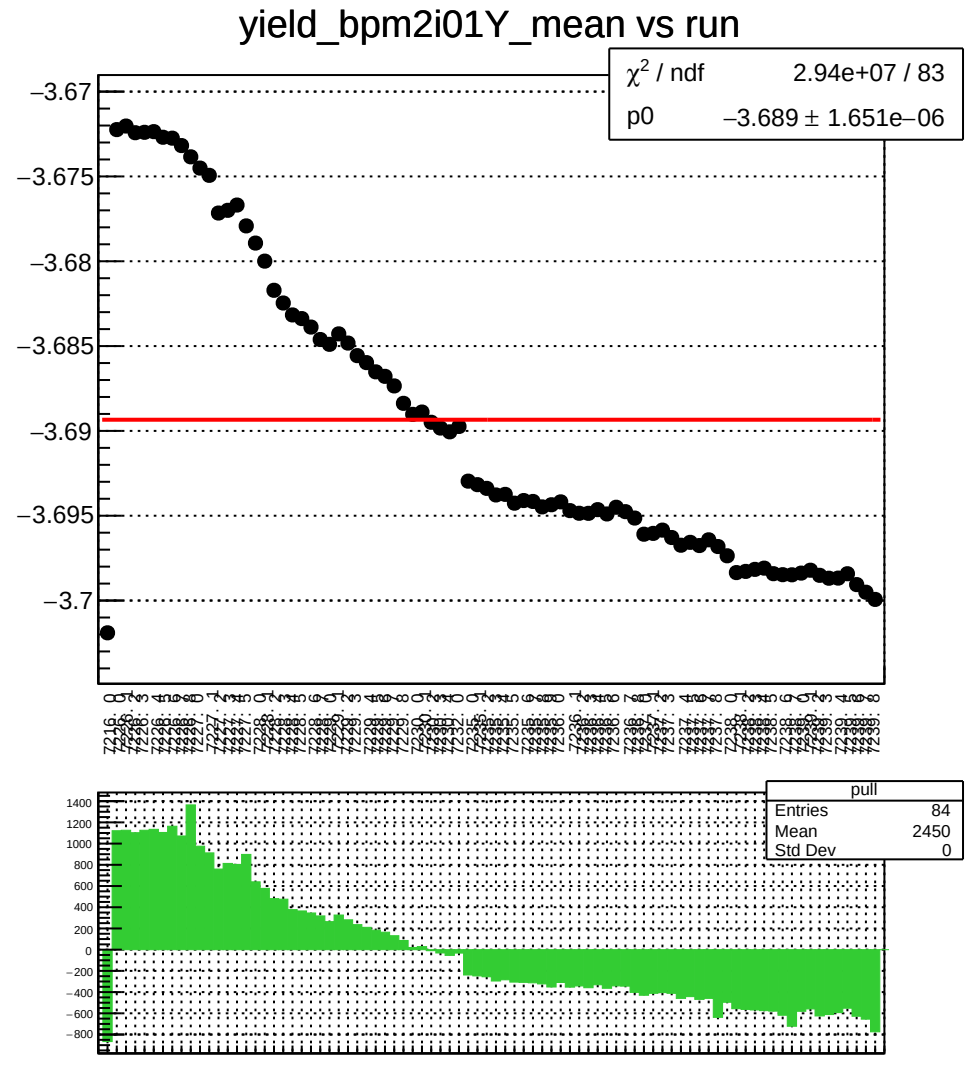

pull1D
Entries 84
Mean −2.534
Std Dev 6.06

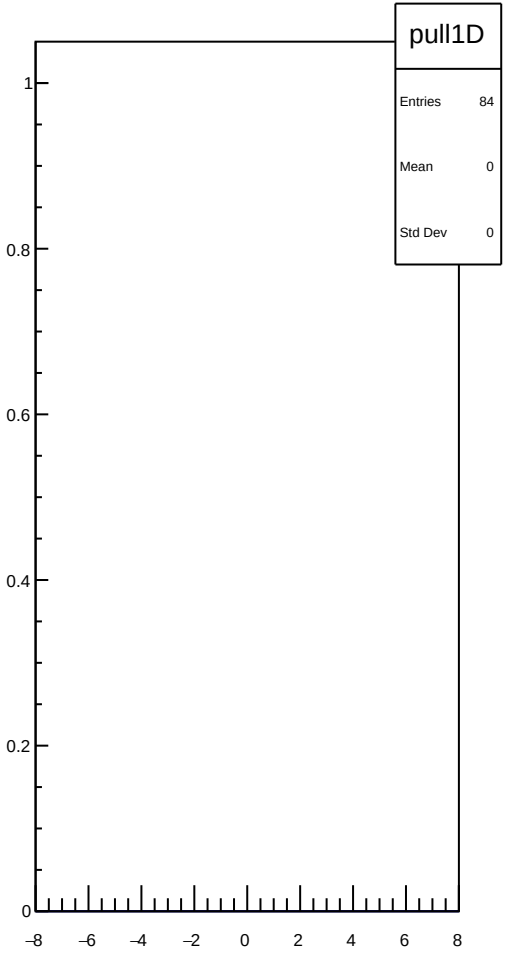

yield_bpm1i06Y_rms vs run
χ² / ndf 8.159e+04 / 83
p0 0.003354 ± 2.699e−06
0.025
0.02
0.015
0.01
0.005

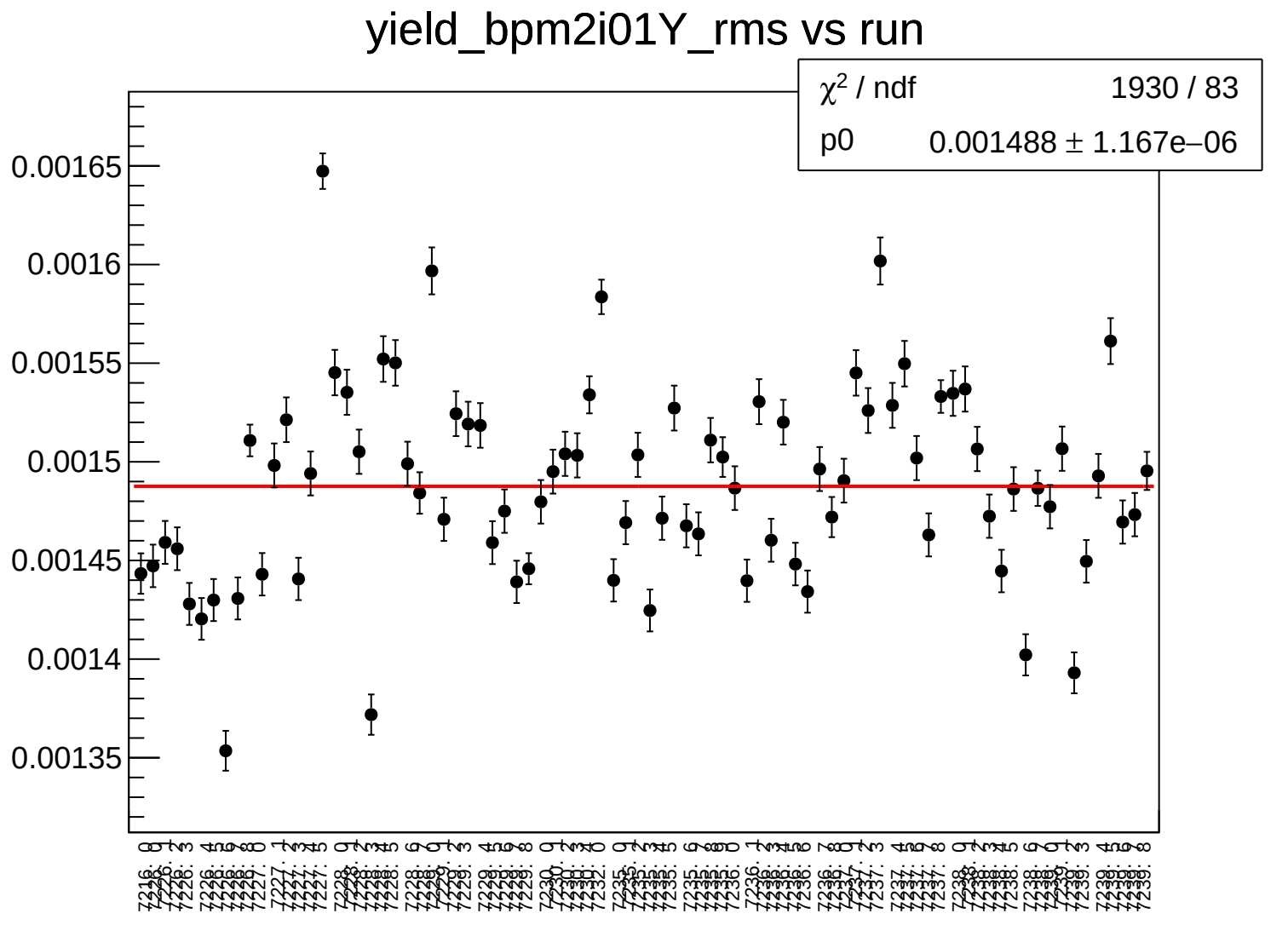

yield_bpm2i01X_mean vs run
χ² / ndf 3.753e+07 / 83
p0 0.4961 ± 1.681e−06
0.515
0.51
0.505
0.5
0.495
0.49
0.485
0.48
0.475
pull
Entries 84
Mean 695.6
Std Dev 0
1500
1000
500
0
−500
−1000
−1500

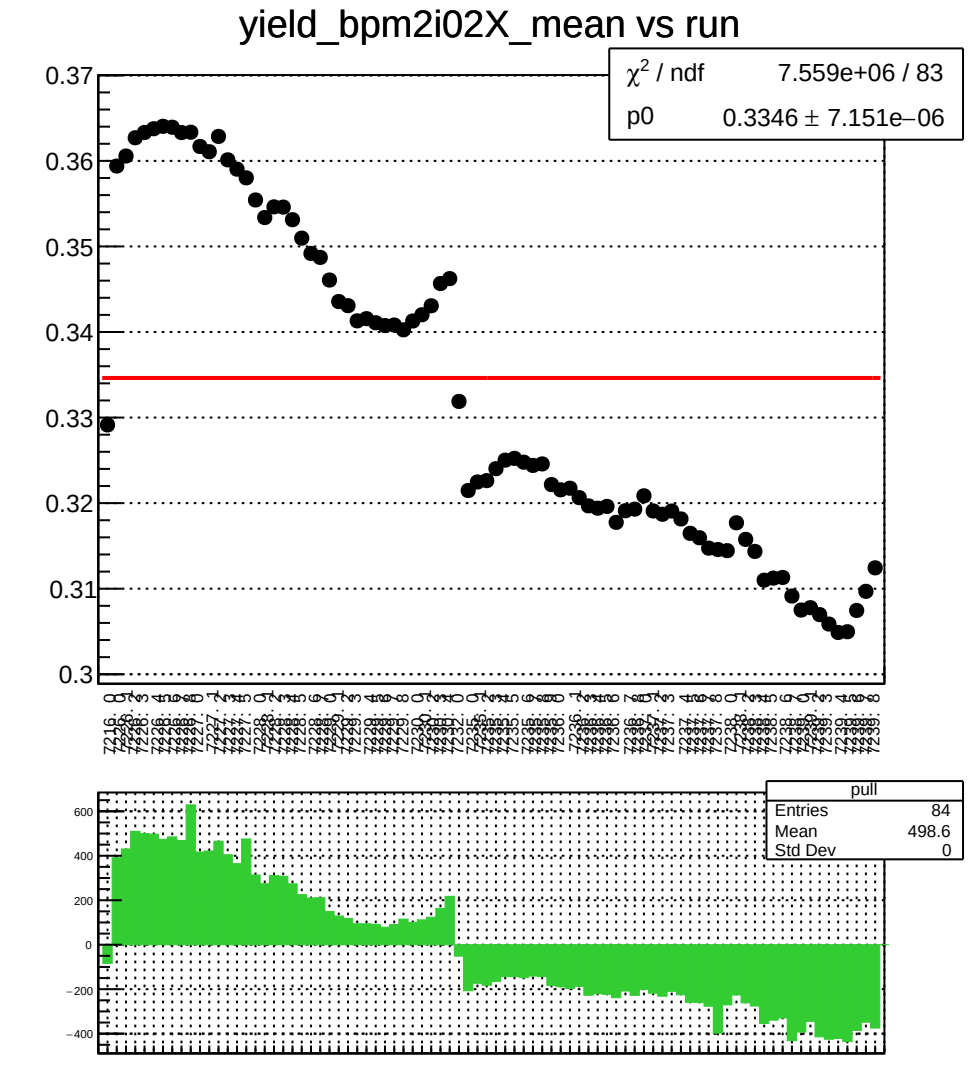

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

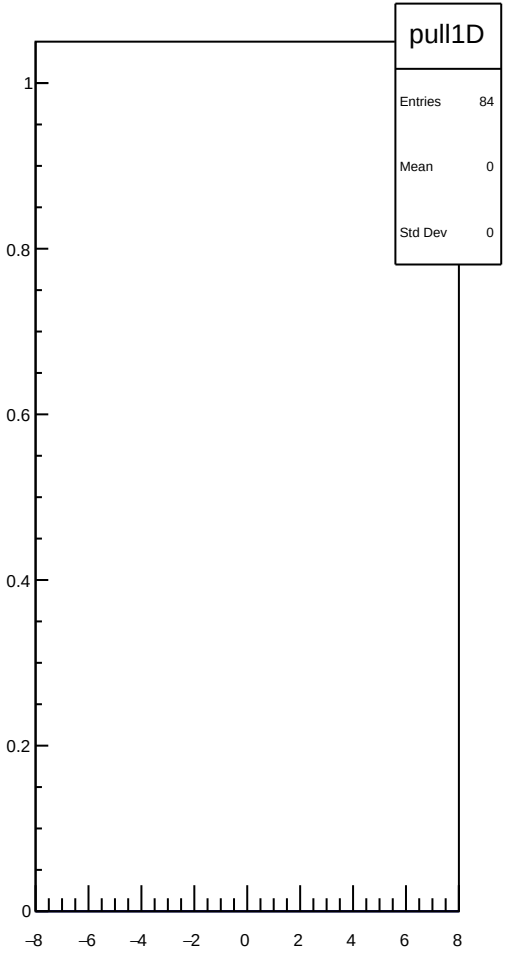

yield_bpm2i01X_rms vs run
χ² / ndf 1.991e+04 / 83
p0 0.001507 ± 1.189e−06
0.004
0.0035
0.003
0.0025
0.002
0.0015

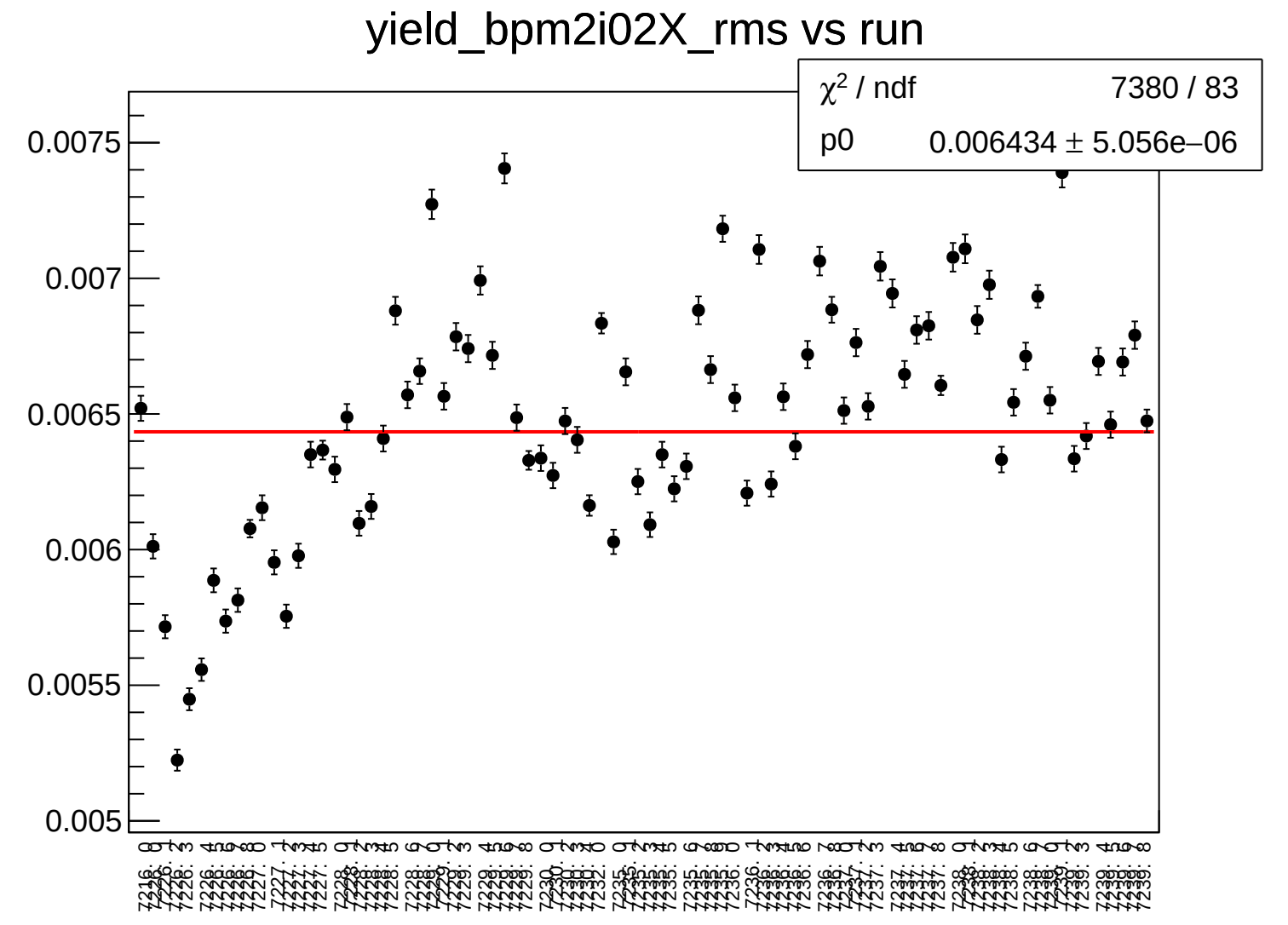

yield_bpm2i01Y_mean vs run
χ² / ndf 2.94e+07 / 83
p0 −3.689 ± 1.651e−06
−3.67
−3.675
−3.68
−3.685
−3.69
−3.695
−3.7
pull
Entries 84
Mean 2450
Std Dev 0
1400
1200
1000
800
600
400
200
0
−200
−400
−600
−800

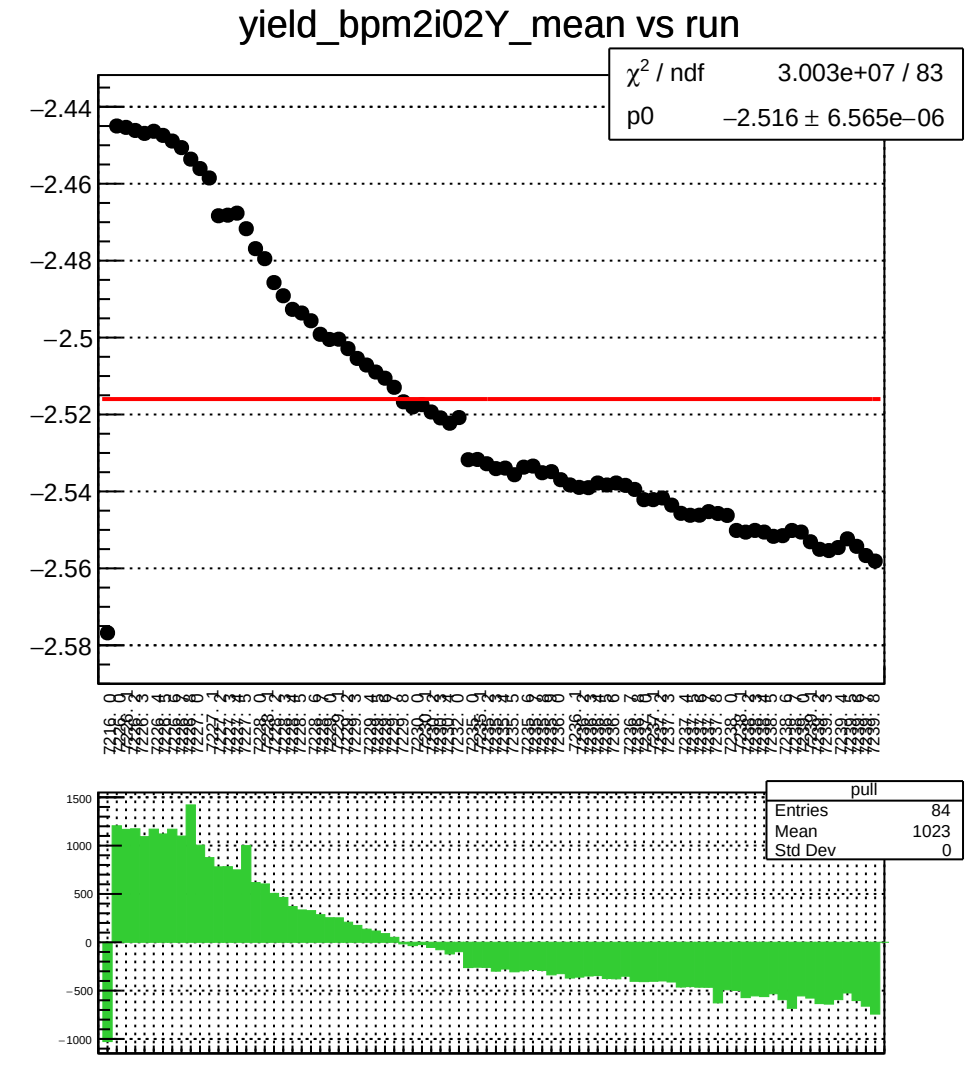

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

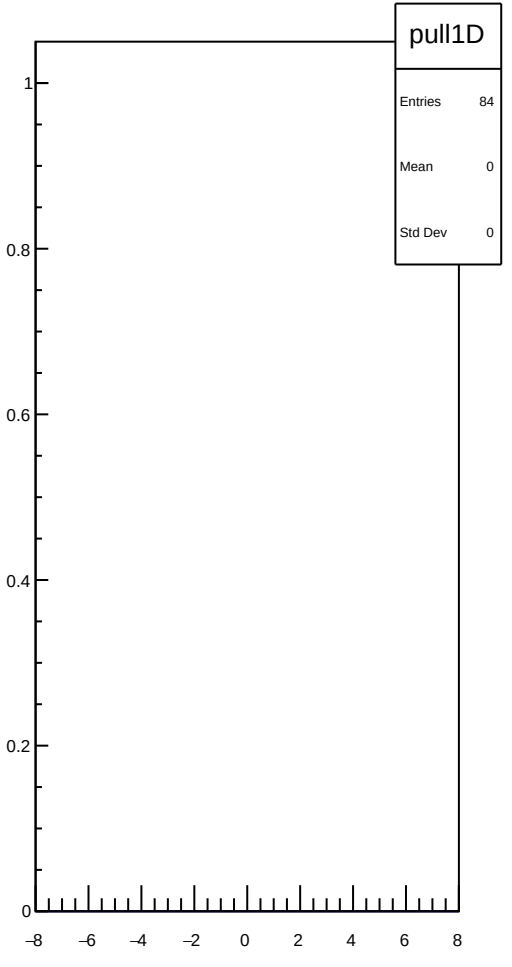

yield_bpm2i01Y_rms vs run
χ² / ndf 1930 / 83
p0 0.001488 ± 1.167e−06
0.00165
0.0016
0.00155
0.0015
0.00145
0.0014
0.00135

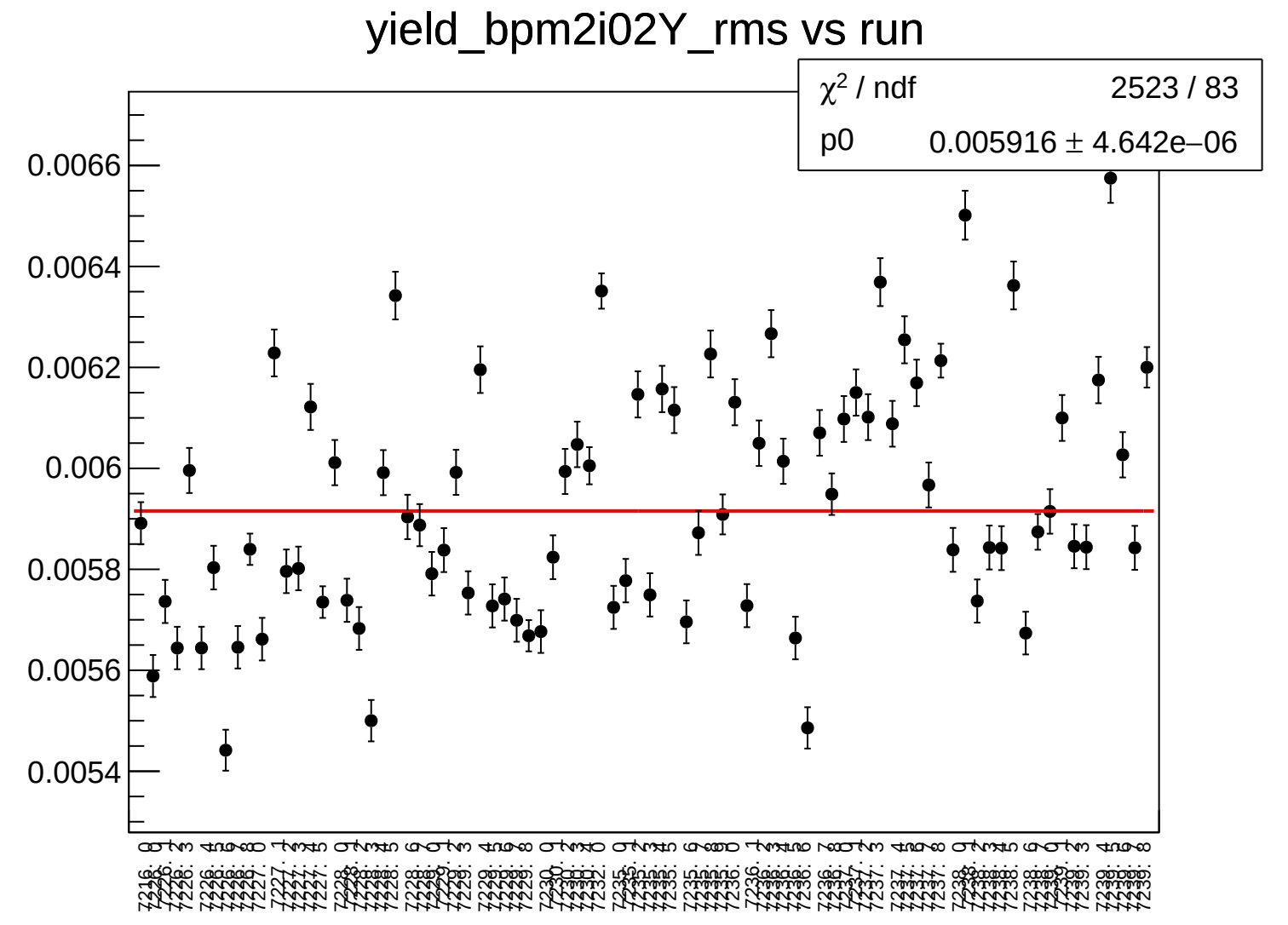

yield_bpm2i02X_mean vs run
χ² / ndf 7.559e+06 / 83
p0 0.3346 ± 7.151e−06
0.37
0.36
0.35
0.34
0.33
0.32
0.31
0.3
pull
Entries 84
Mean 498.6
Std Dev 0
600
400
200
0
−200
−400

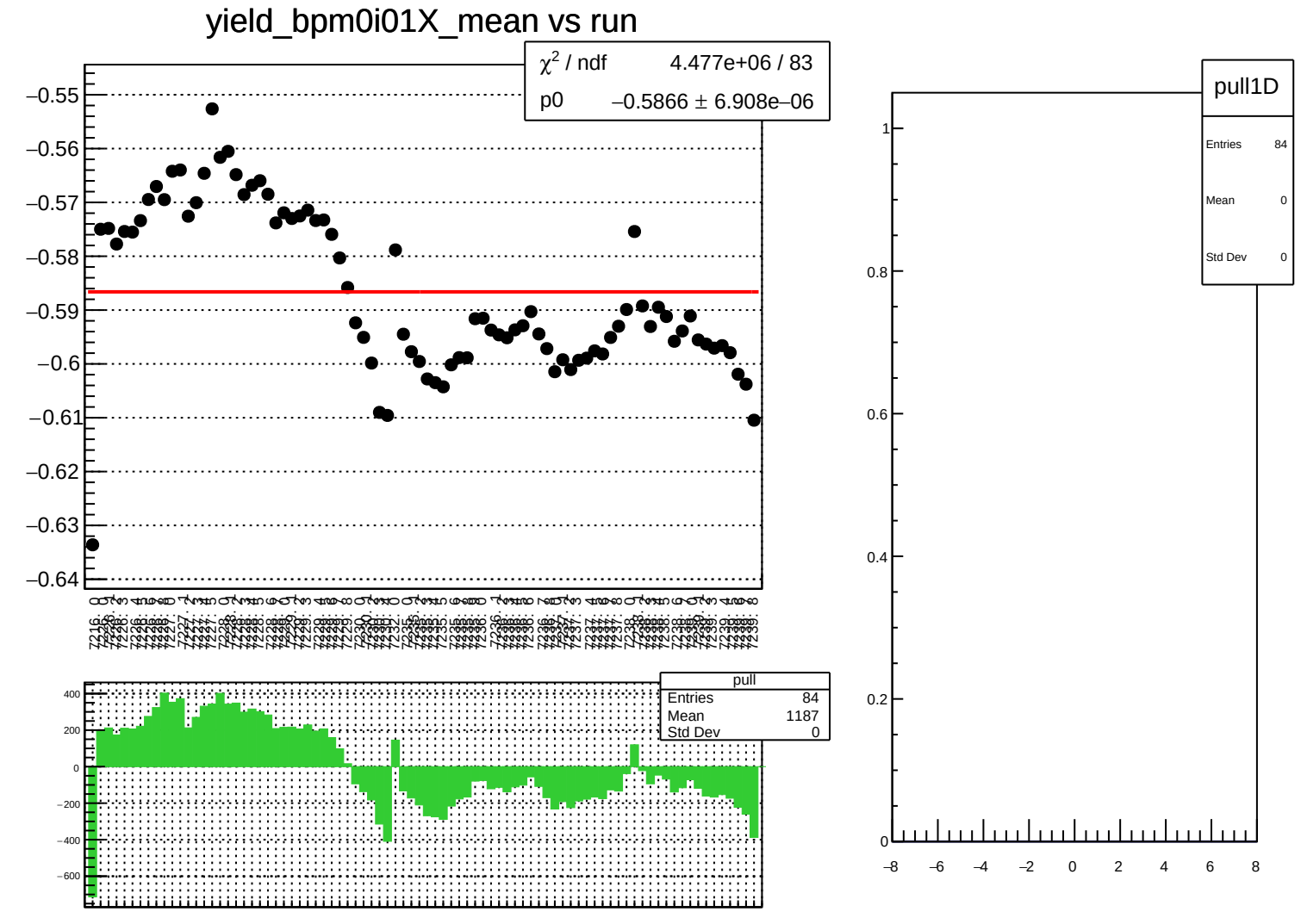

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

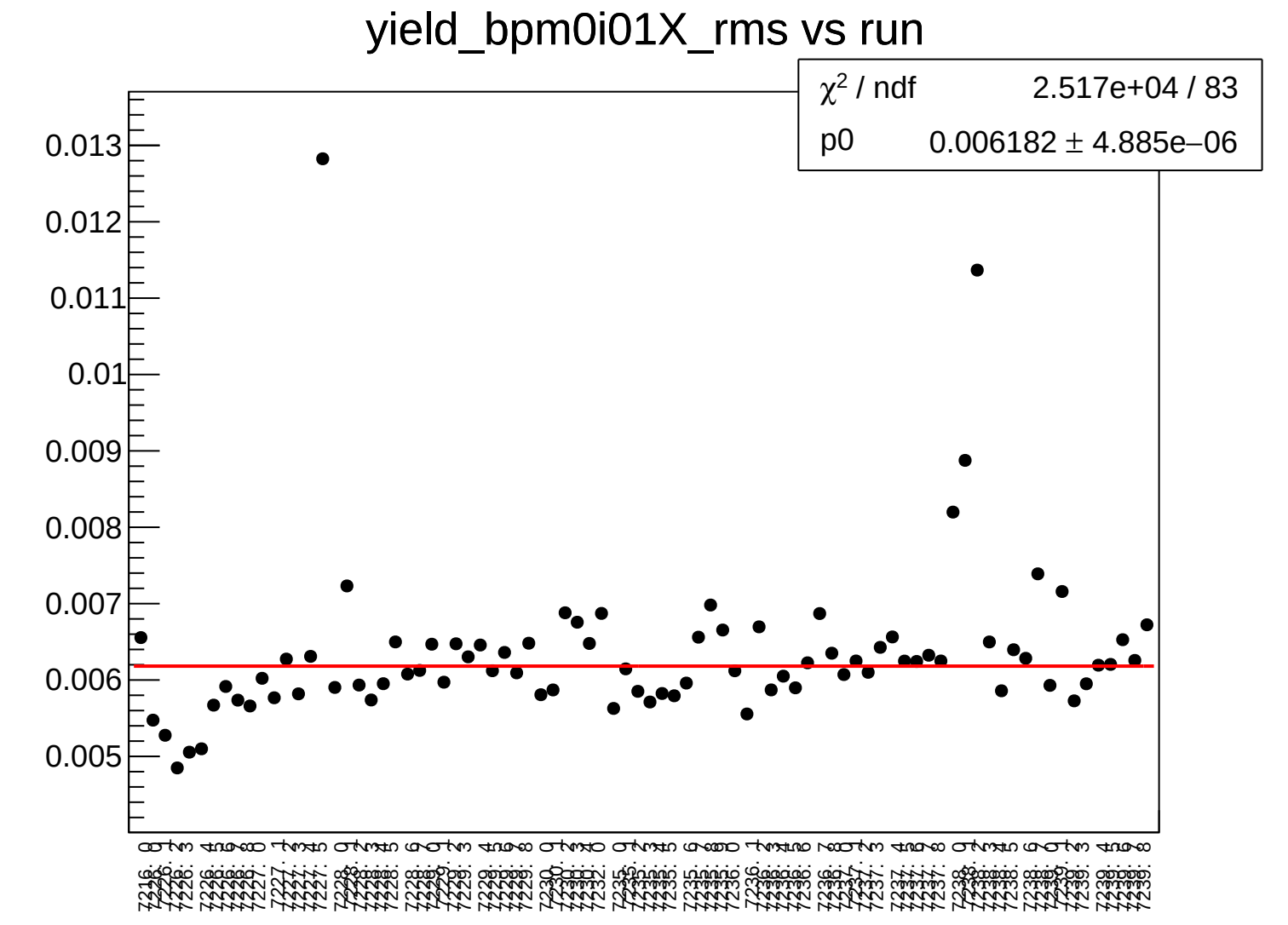

yield_bpm2i02X_rms vs run
χ^2 / ndf 7380 / 83
p0 0.006434 ± 5.056e−06
0.0075
0.007
0.0065
0.006
0.0055
0.005

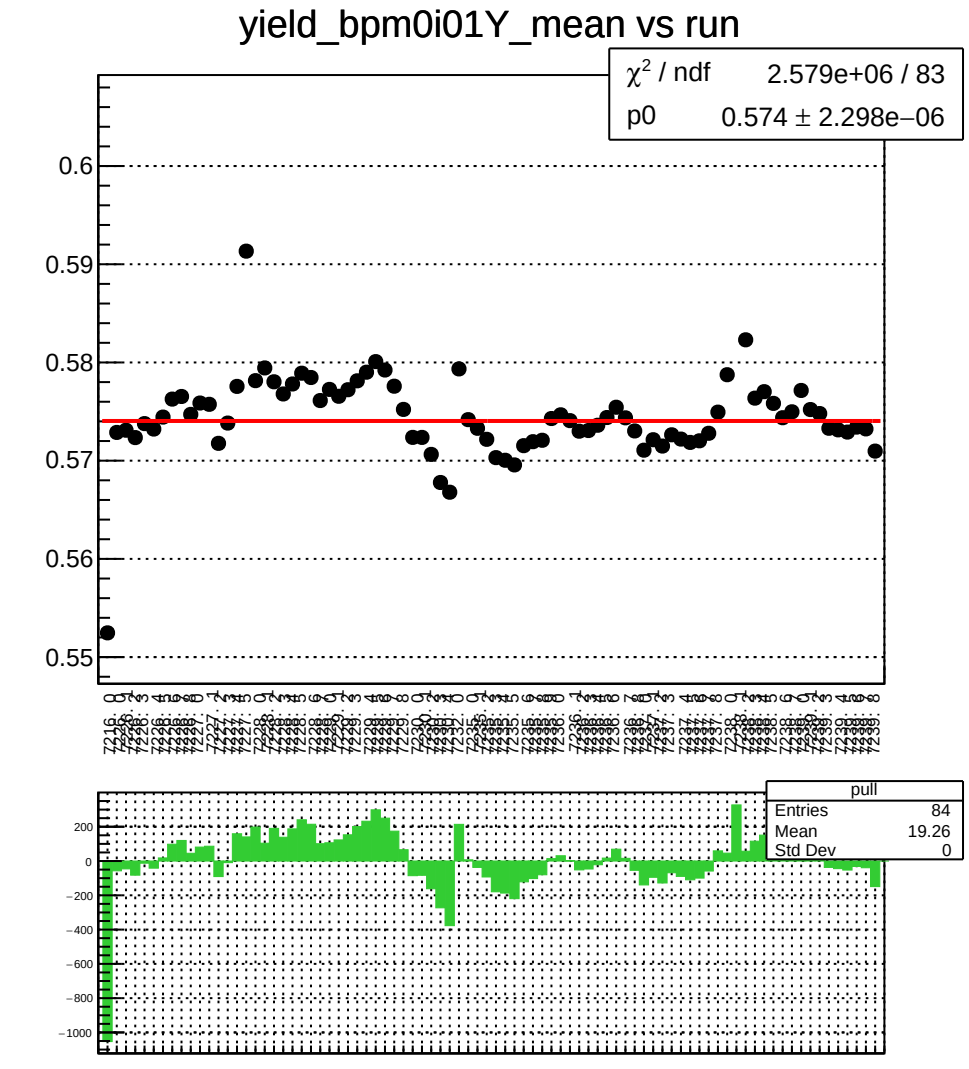

yield_bpm2i02Y_mean vs run
χ² / ndf 3.003e+07 / 83
p0 −2.516 ± 6.565e−06
−2.44
−2.46
−2.48
−2.5
−2.52
−2.54
−2.56
−2.58
pull
Entries 84
Mean 1023
Std Dev 0
1500
1000
500
0
−500
−1000

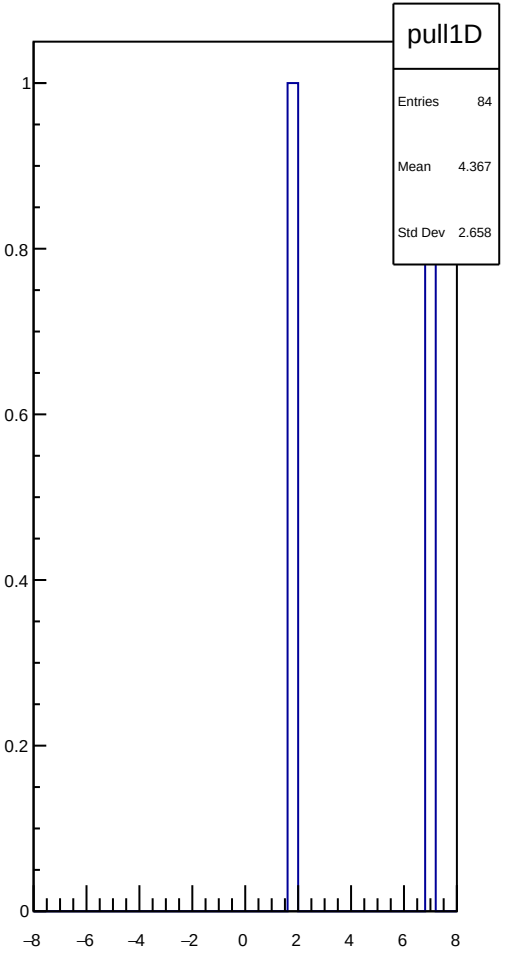

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

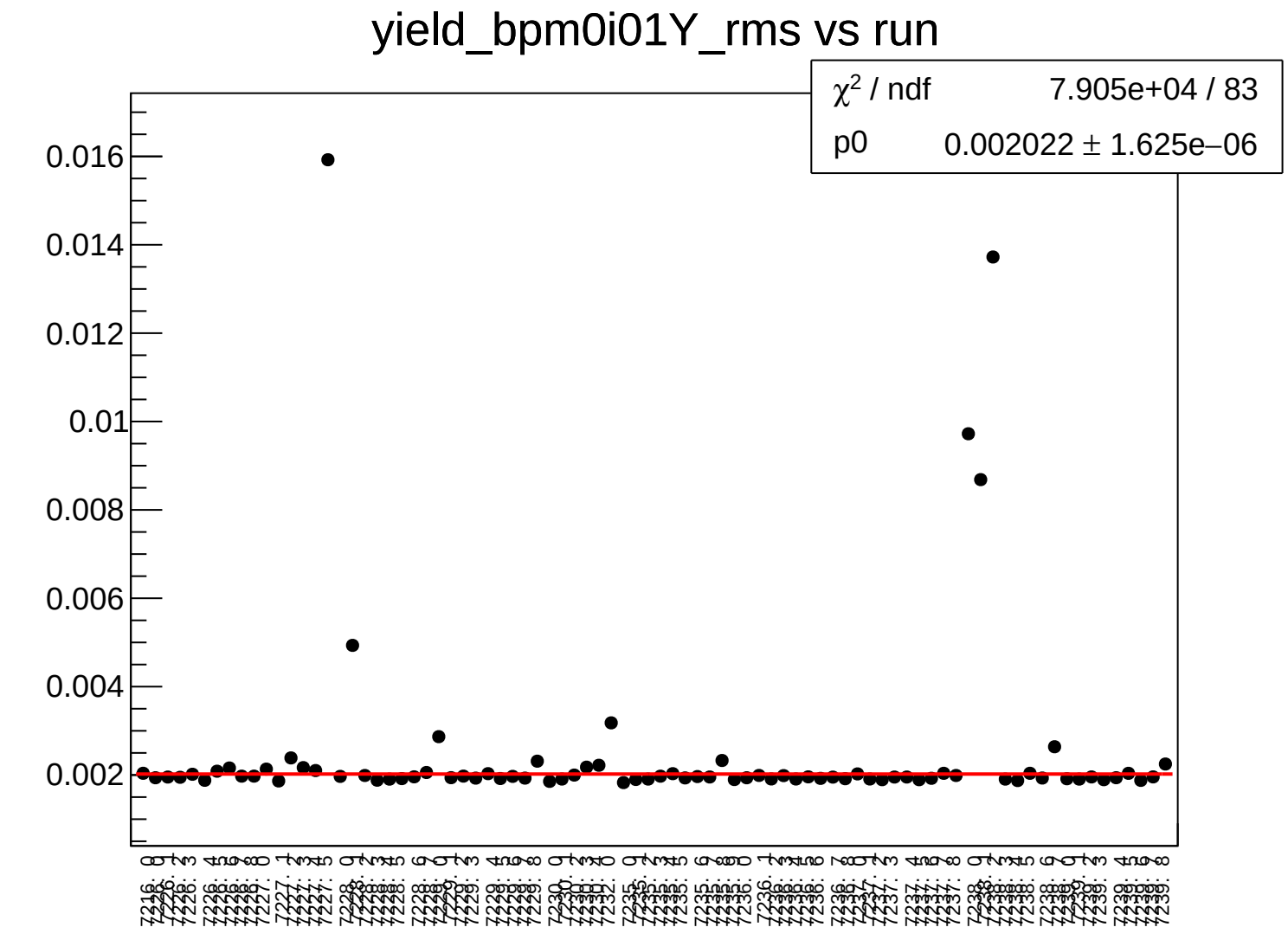

yield_bpm2i02Y_rms vs run
χ² / ndf 2523 / 83
p0 0.005916 ± 4.642e−06
0.0066
0.0064
0.0062
0.006
0.0058
0.0056
0.0054

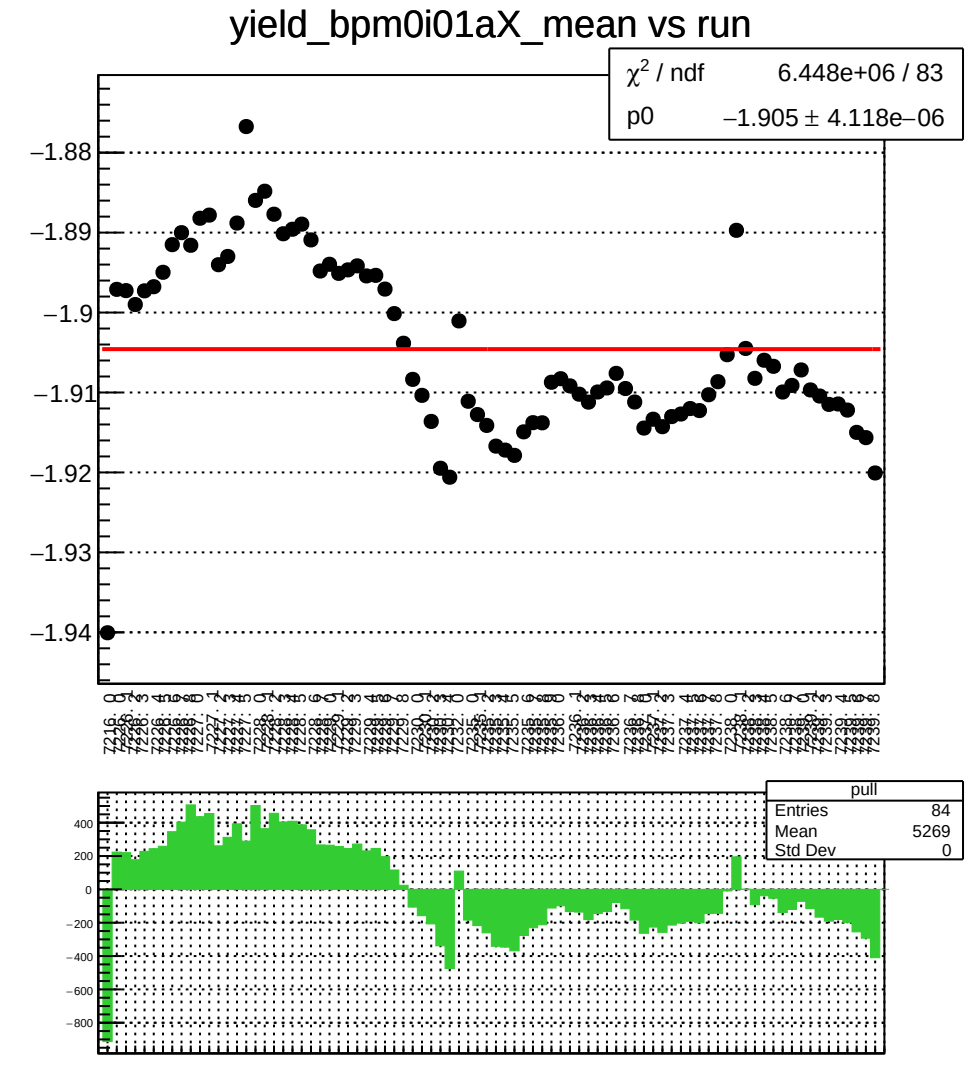

yield_bpm0i01X_mean vs run
χ² / ndf 4.477e+06 / 83
p0 −0.5866 ± 6.908e−06
pull
Entries 84
Mean 1187
Std Dev 0
pull1D
Entries 84
Mean 0
Std Dev 0

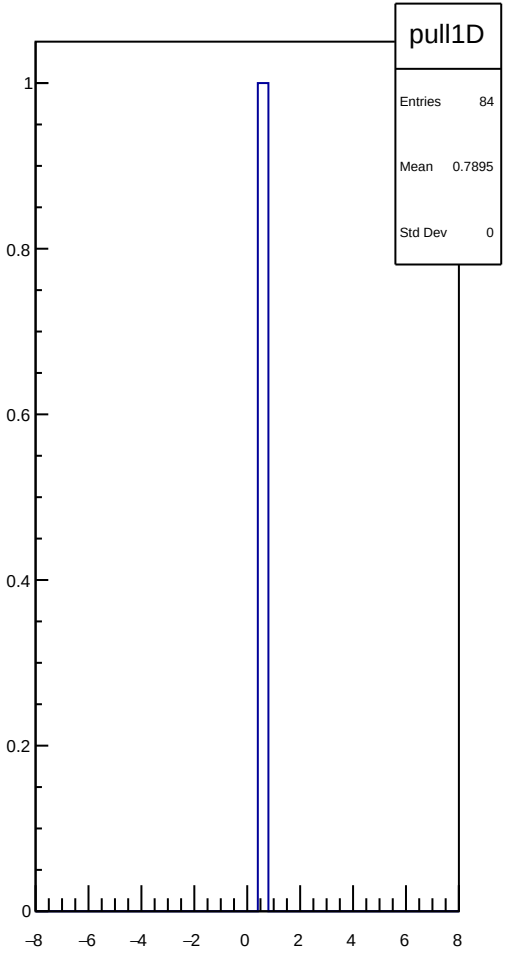

yield_bpm0i01X_rms vs run
χ^2 / ndf 2.517e+04 / 83
p0 0.006182 ± 4.885e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005

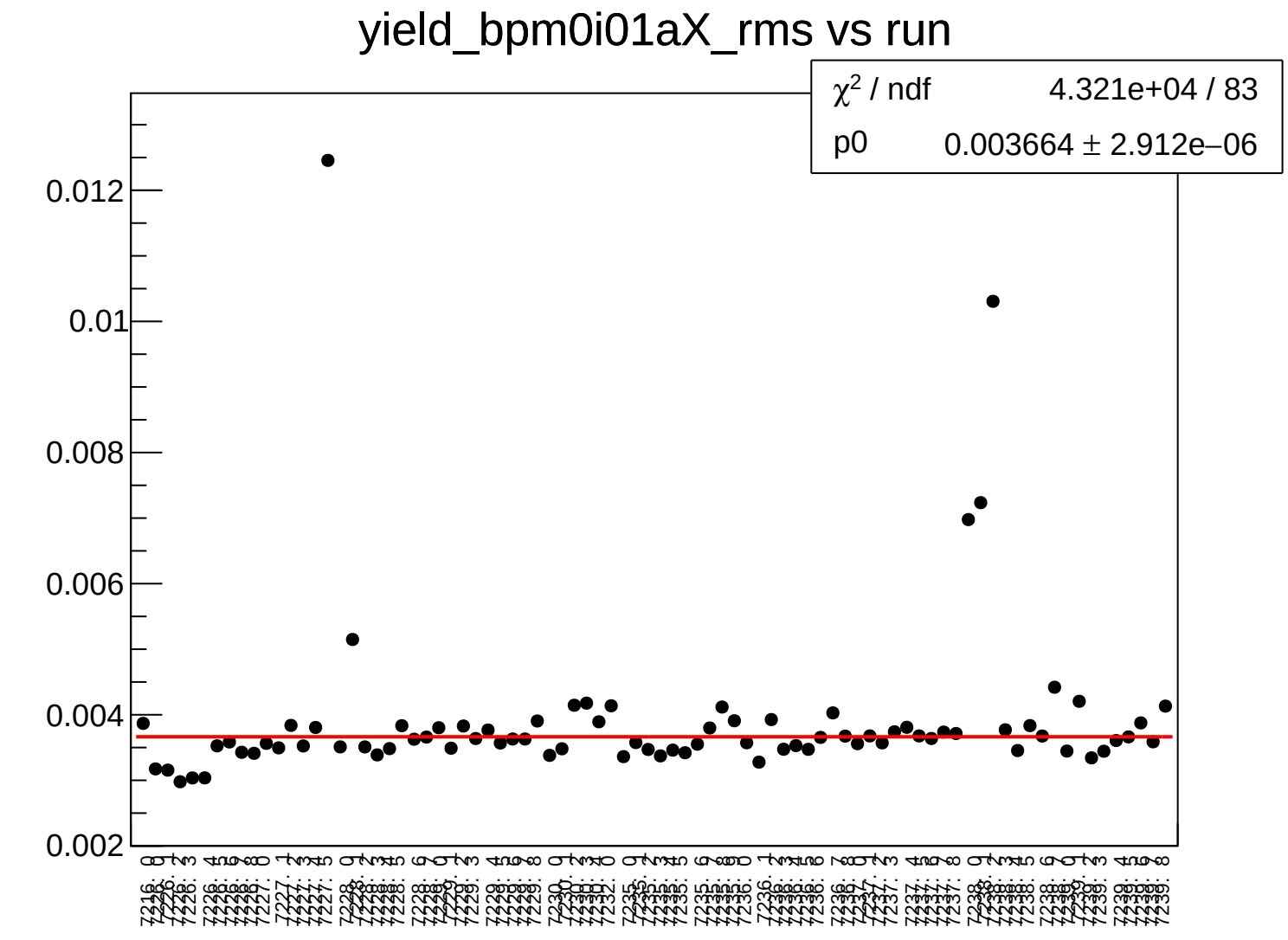

yield_bpm0i01Y_mean vs run
χ² / ndf 2.579e+06 / 83
p0 0.574 ± 2.298e−06
0.6
0.59
0.58
0.57
0.56
0.55
pull
Entries 84
Mean 19.26
Std Dev 0
200
0
−200
−400
−600
−800
−1000

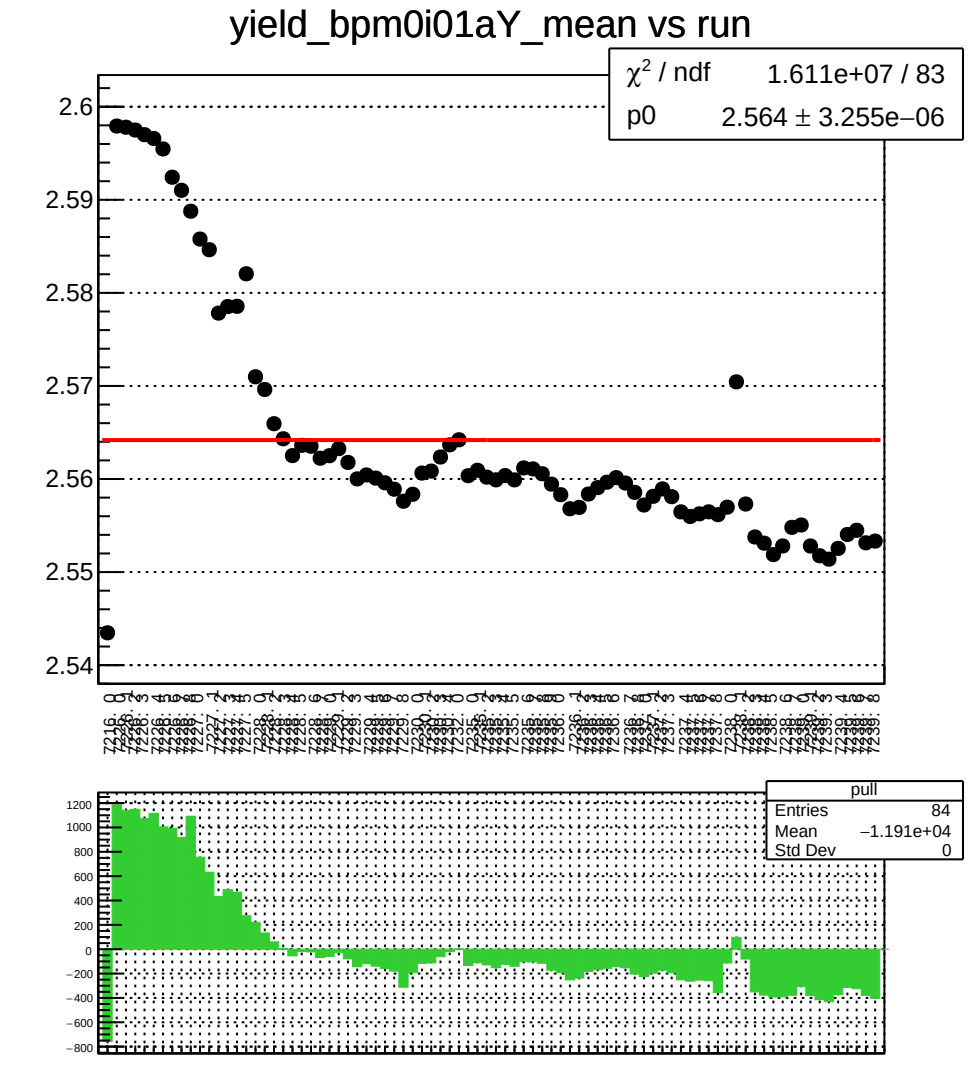

pull1D
Entries 84
Mean 4.367
Std Dev 2.658
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

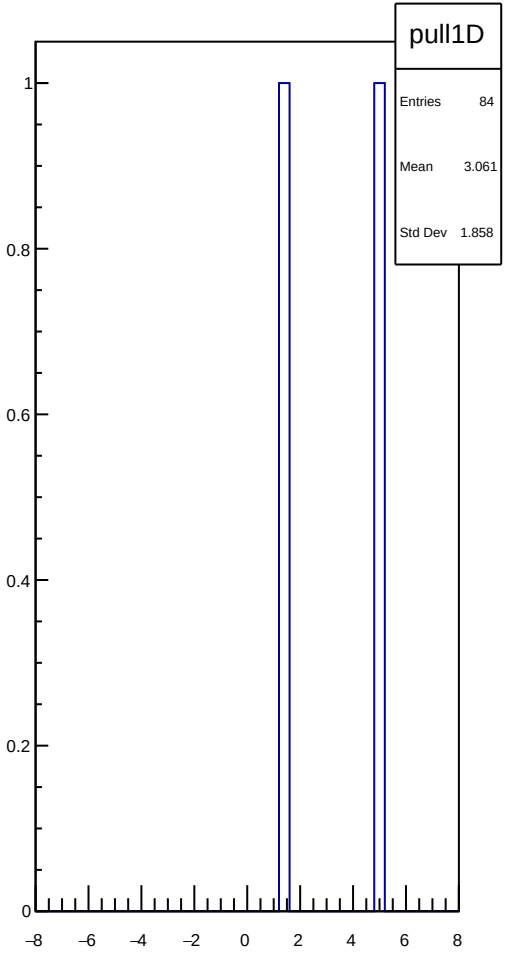

yield_bpm0i01Y_rms vs run
χ² / ndf 7.905e+04 / 83
p0 0.002022 ± 1.625e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

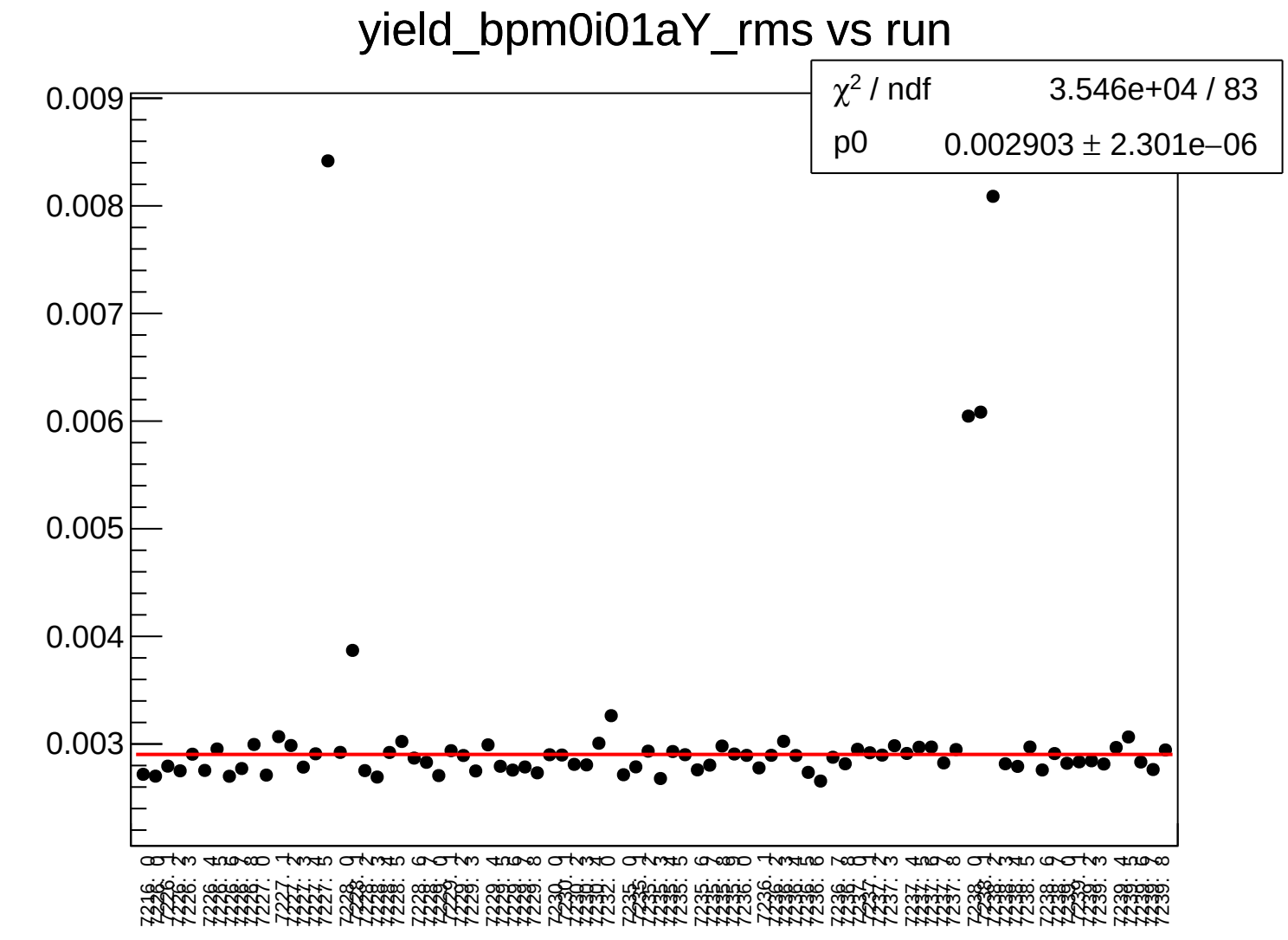

yield_bpm0i01aX_mean vs run
χ² / ndf 6.448e+06 / 83
p0 −1.905 ± 4.118e−06
−1.88
−1.89
−1.9
−1.91
−1.92
−1.93
−1.94
pull
Entries 84
Mean 5269
Std Dev 0
400
200
0
−200
−400
−600
−800

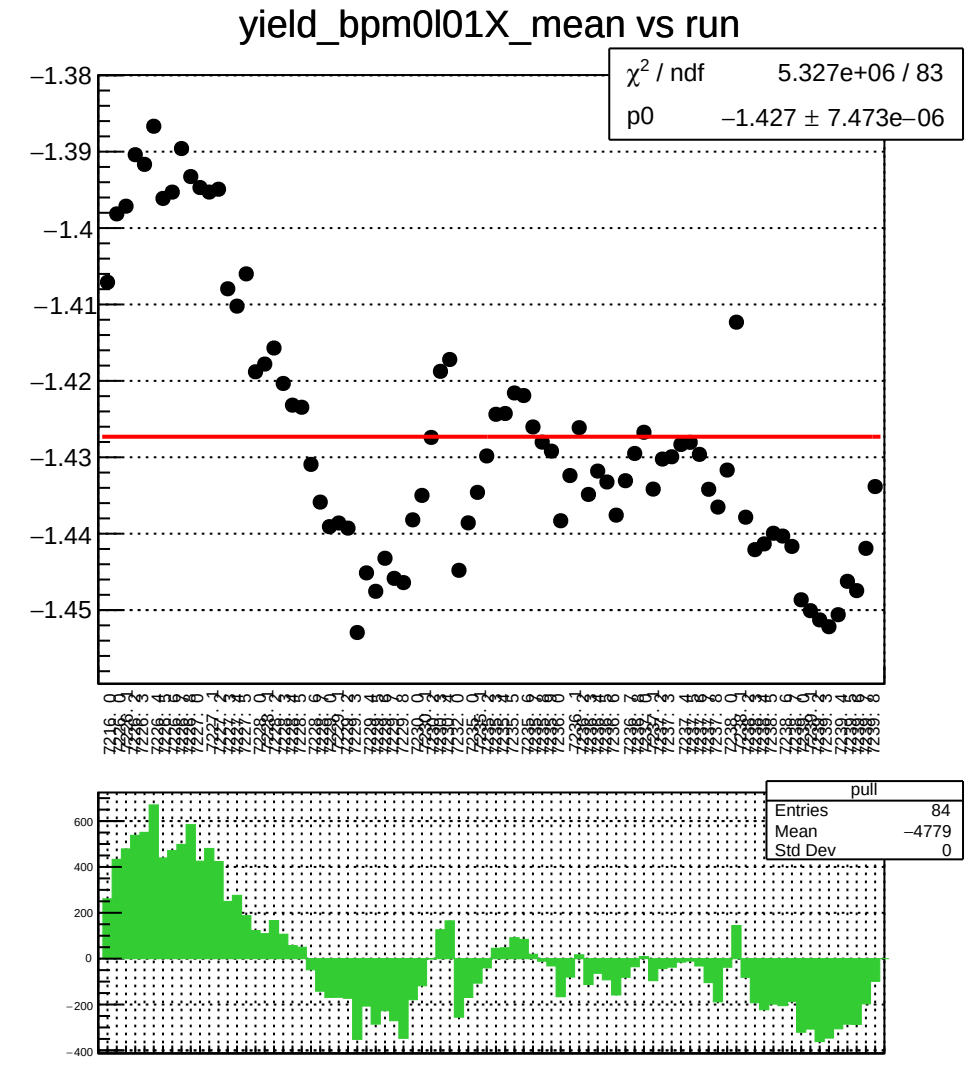

pull1D
Entries 84
Mean 0.7895
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

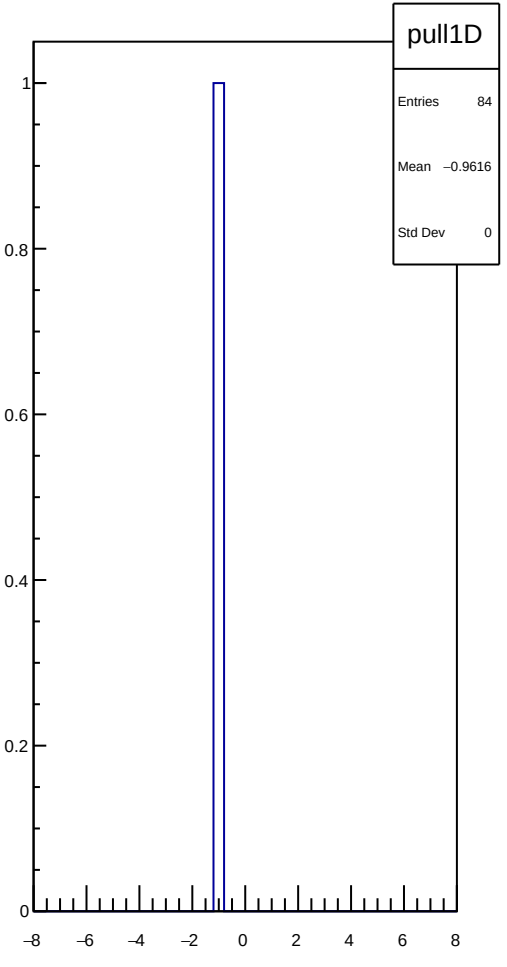

yield_bpm0i01aX_rms vs run
χ² / ndf 4.321e+04 / 83
p0 0.003664 ± 2.912e−06
0.012
0.01
0.008
0.006
0.004
0.002

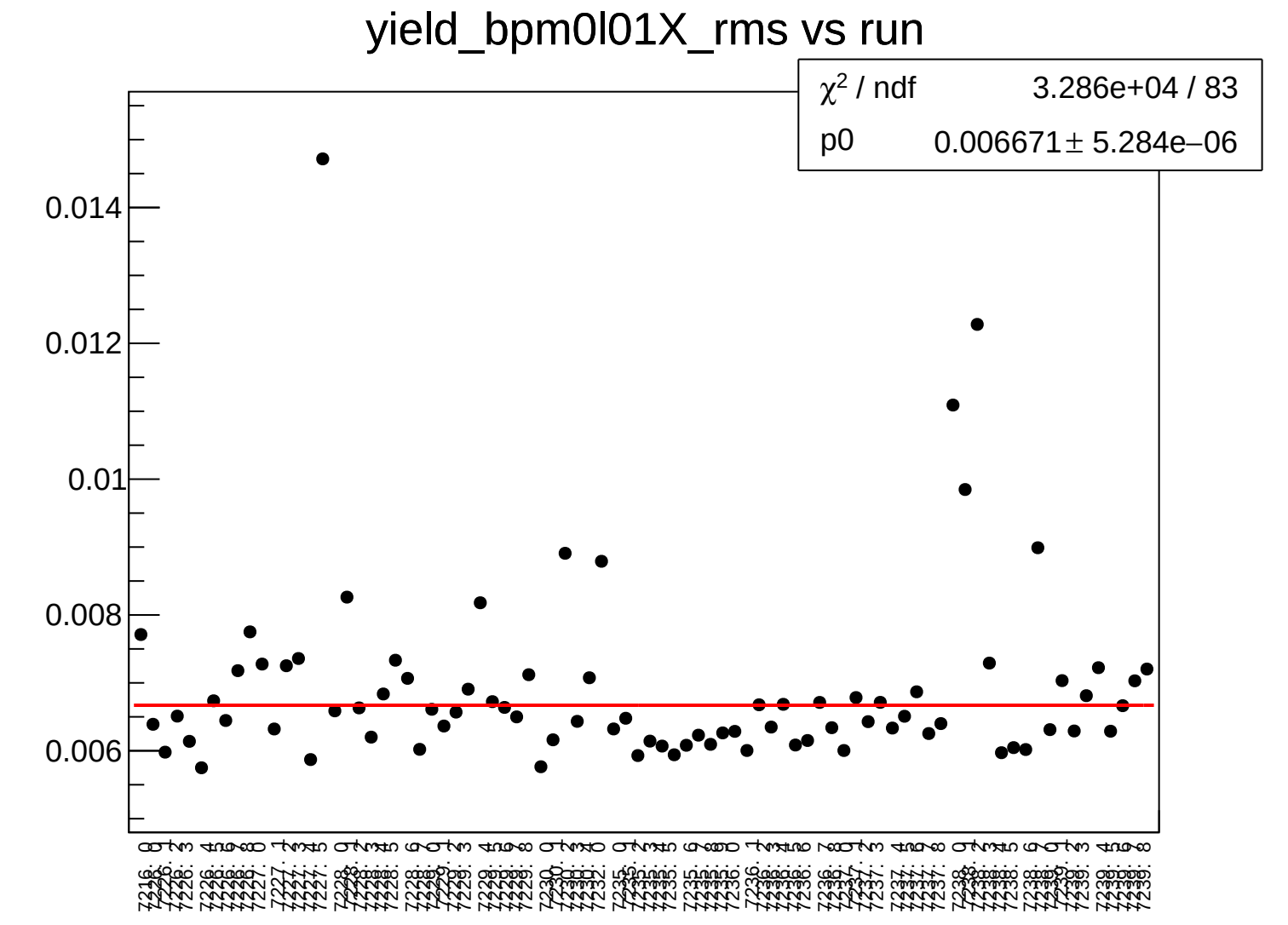

yield_bpm0i01aY_mean vs run
χ² / ndf 1.611e+07 / 83
p0 2.564 ± 3.255e−06
2.6
2.59
2.58
2.57
2.56
2.55
2.54
pull
Entries 84
Mean −1.191e+04
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400
−600
−800

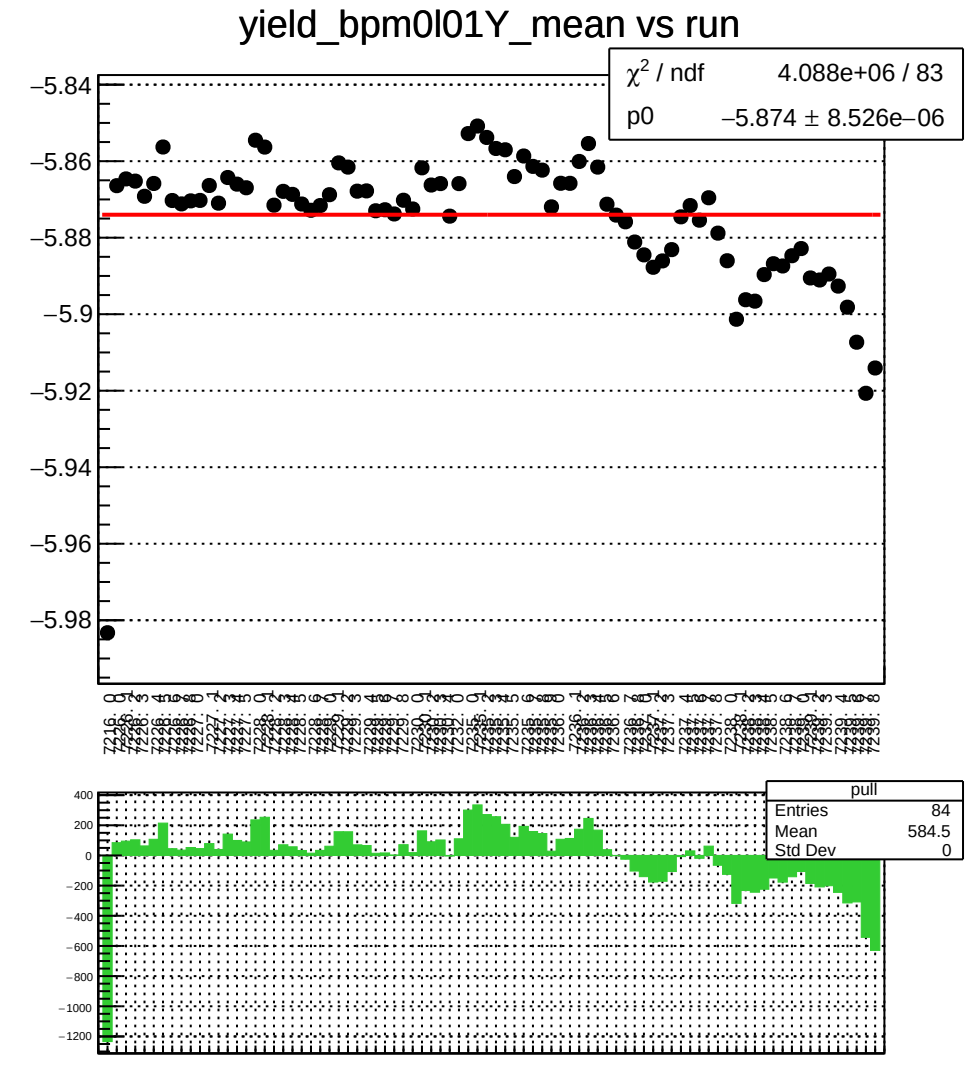

pull1D
Entries 84
Mean 3.061
Std Dev 1.858
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

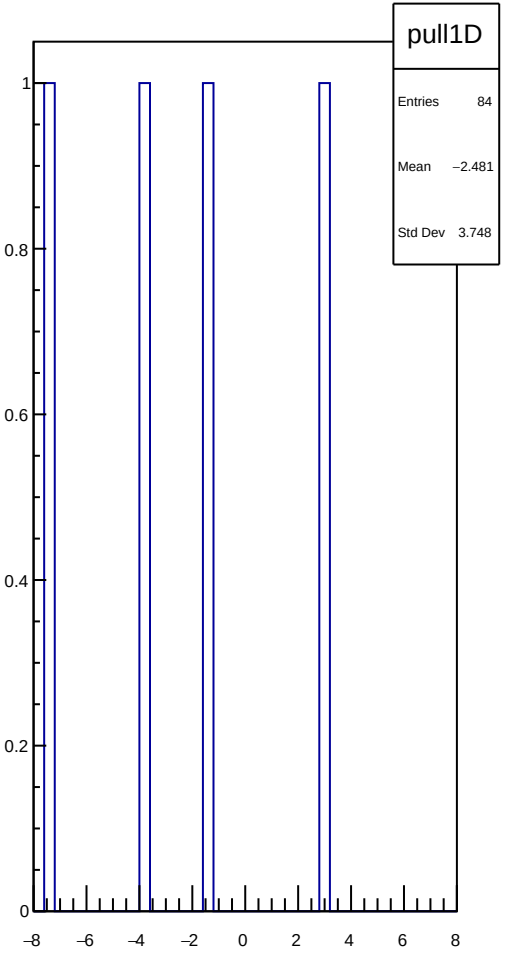

yield_bpm0i01aY_rms vs run
χ² / ndf 3.546e+04 / 83
p0 0.002903 ± 2.301e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003

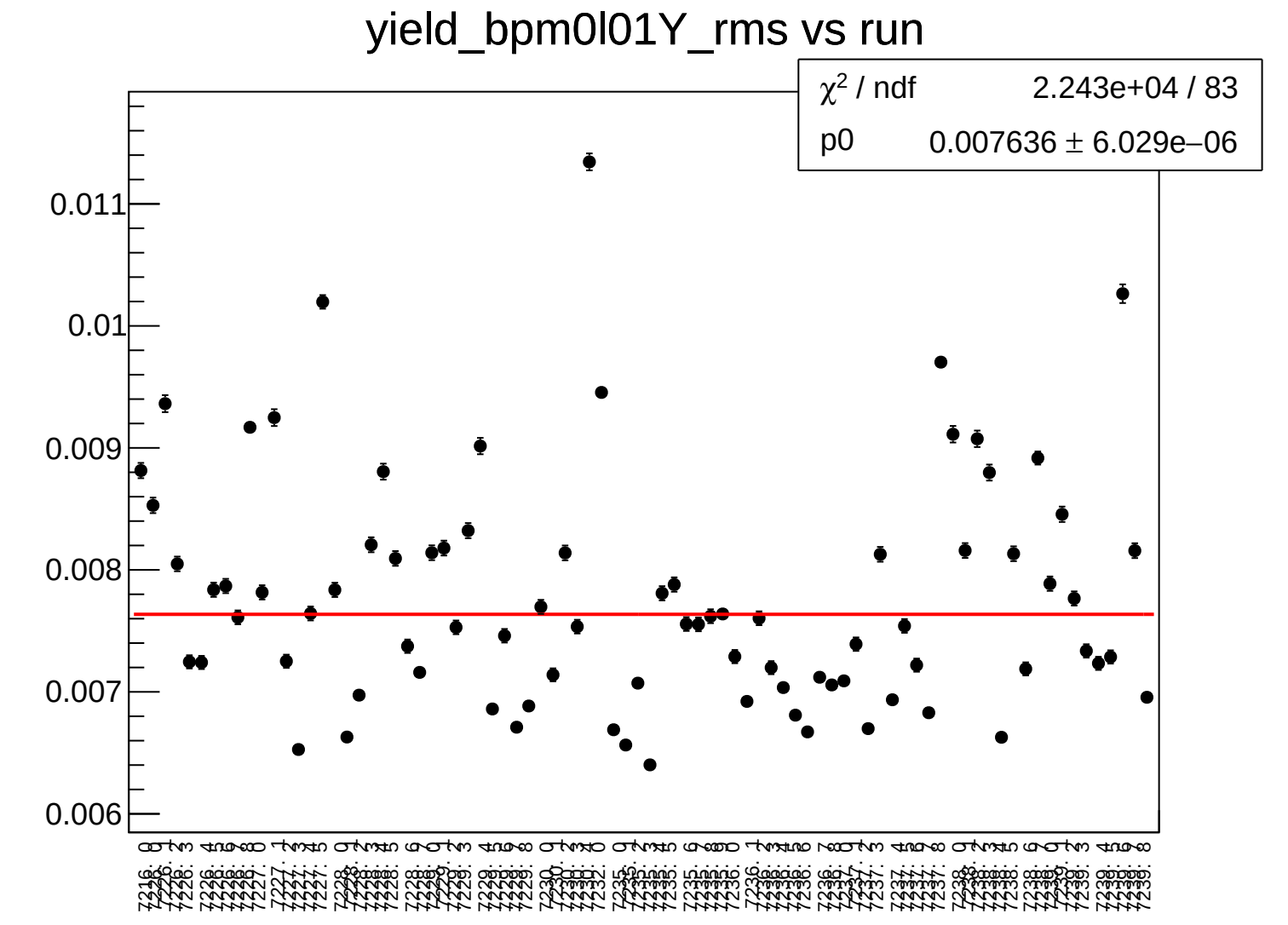

yield_bpm0l01X_mean vs run
χ² / ndf 5.327e+06 / 83
p0 −1.427 ± 7.473e−06
−1.38
−1.39
−1.4
−1.41
−1.42
−1.43
−1.44
−1.45
pull
Entries 84
Mean −4779
Std Dev 0
600
400
200
0
−200
−400

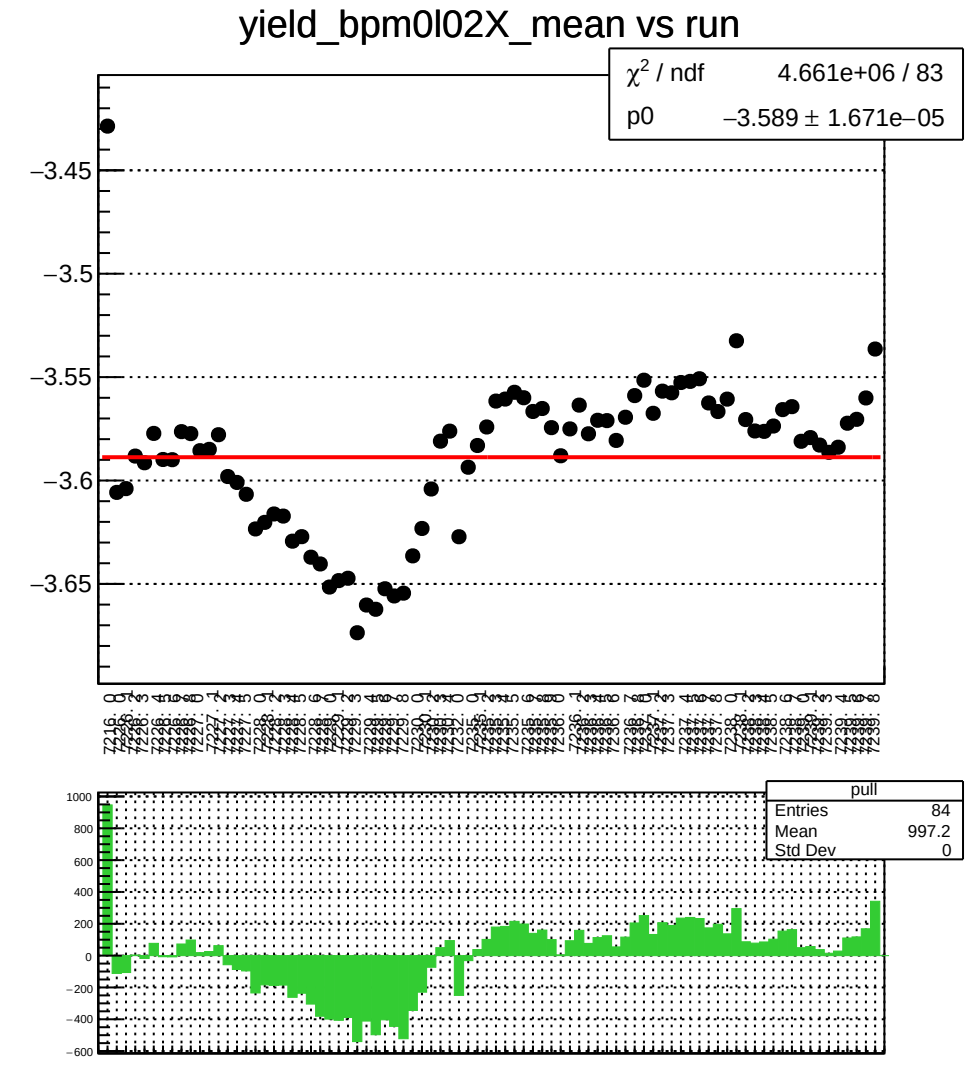

pull1D
Entries 84
Mean −0.9616
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

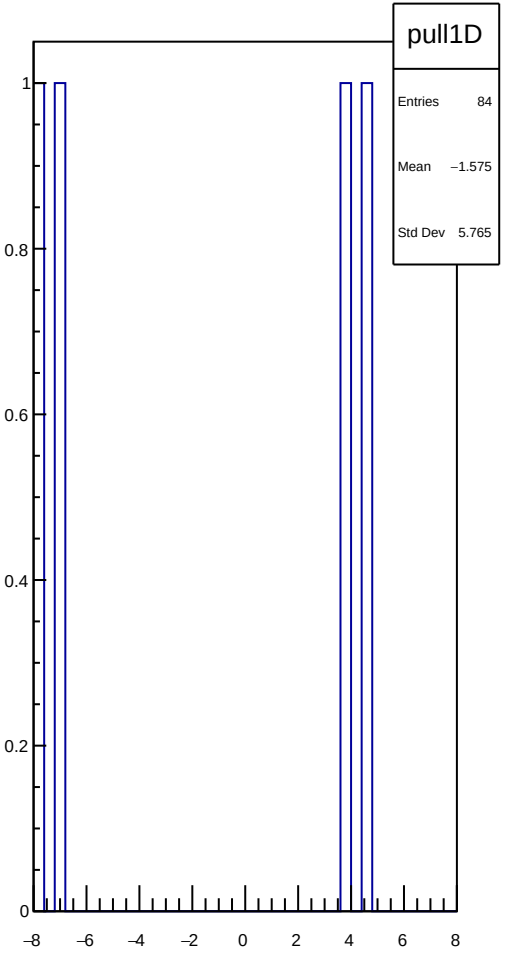

yield_bpm0l01X_rms vs run
χ² / ndf 3.286e+04 / 83
p0 0.006671 ± 5.284e−06
0.014
0.012
0.01
0.008
0.006

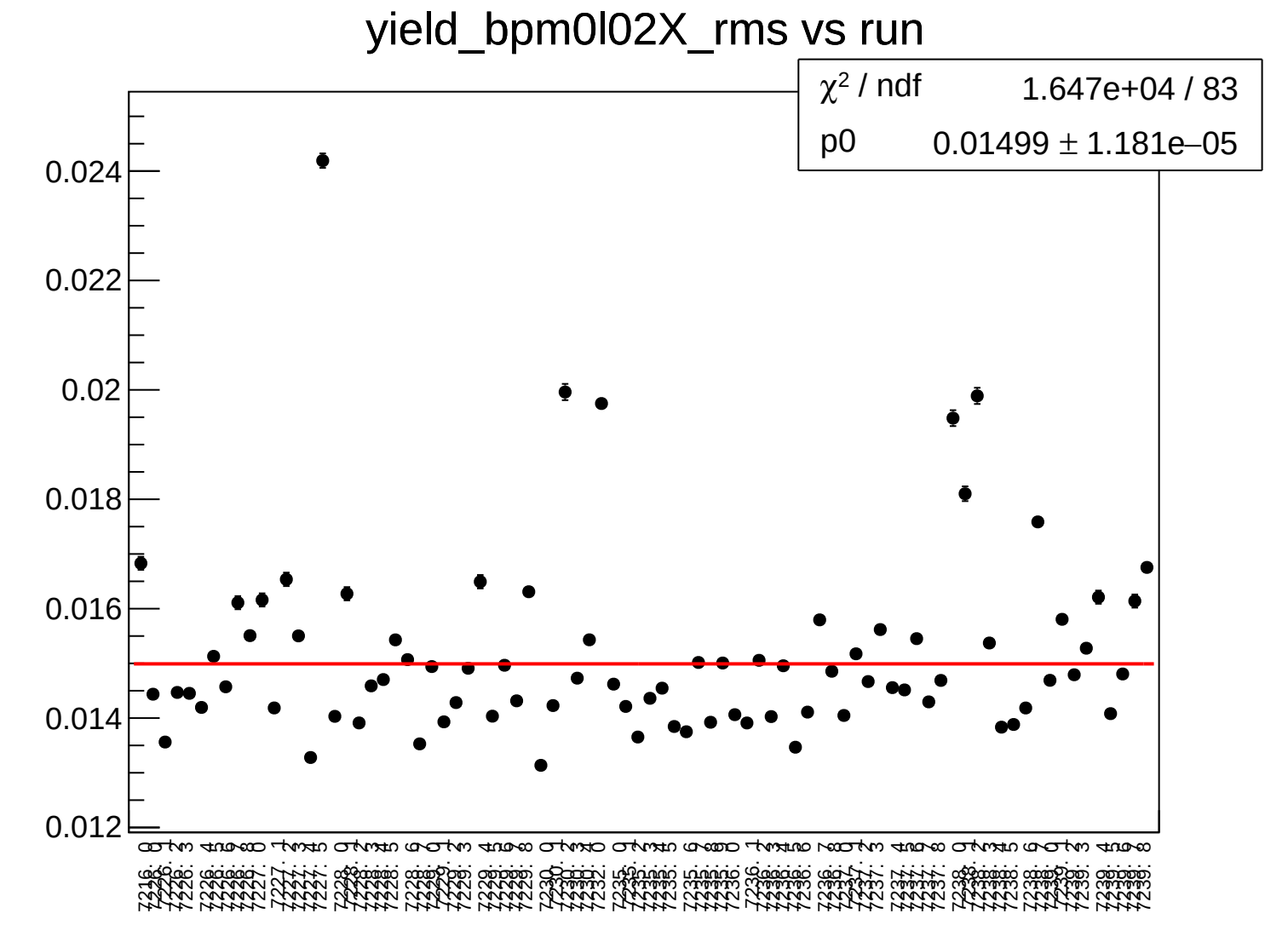

yield_bpm0l01Y_mean vs run
χ² / ndf 4.088e+06 / 83
p0 −5.874 ± 8.526e−06
−5.84
−5.86
−5.88
−5.9
−5.92
−5.94
−5.96
−5.98
pull
Entries 84
Mean 584.5
Std Dev 0
400
200
0
−200
−400
−600
−800
−1000
−1200

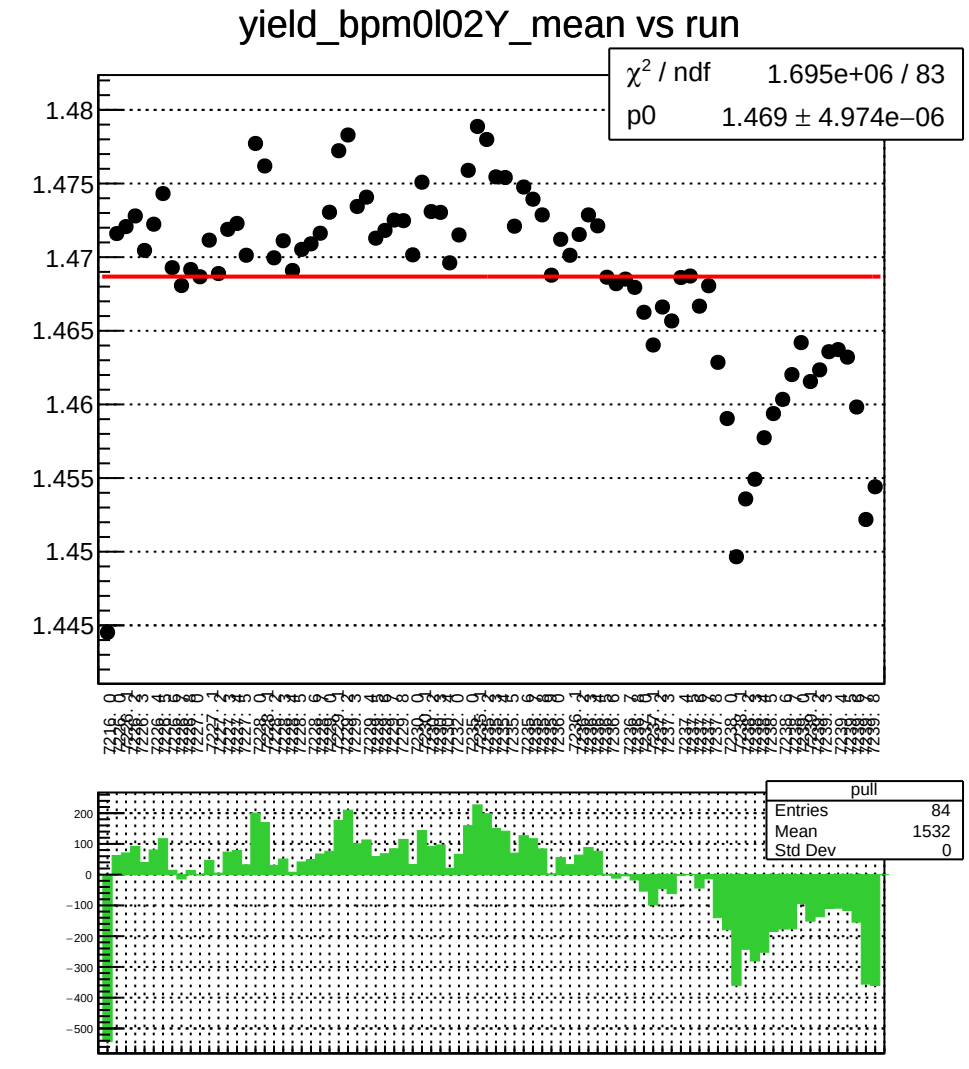

pull1D
Entries 84
Mean −2.481
Std Dev 3.748
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

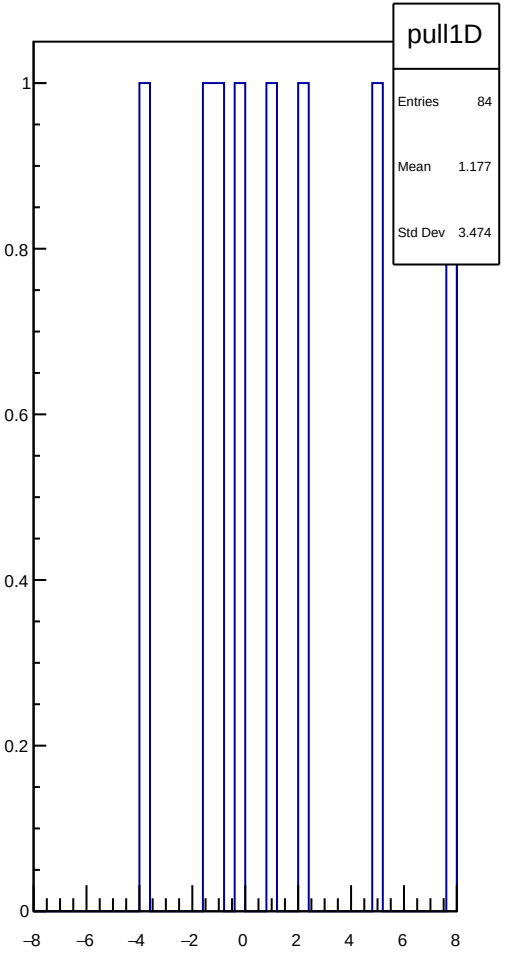

yield_bpm0l01Y_rms vs run
χ² / ndf 2.243e+04 / 83
p0 0.007636 ± 6.029e−06
0.011
0.01
0.009
0.008
0.007
0.006

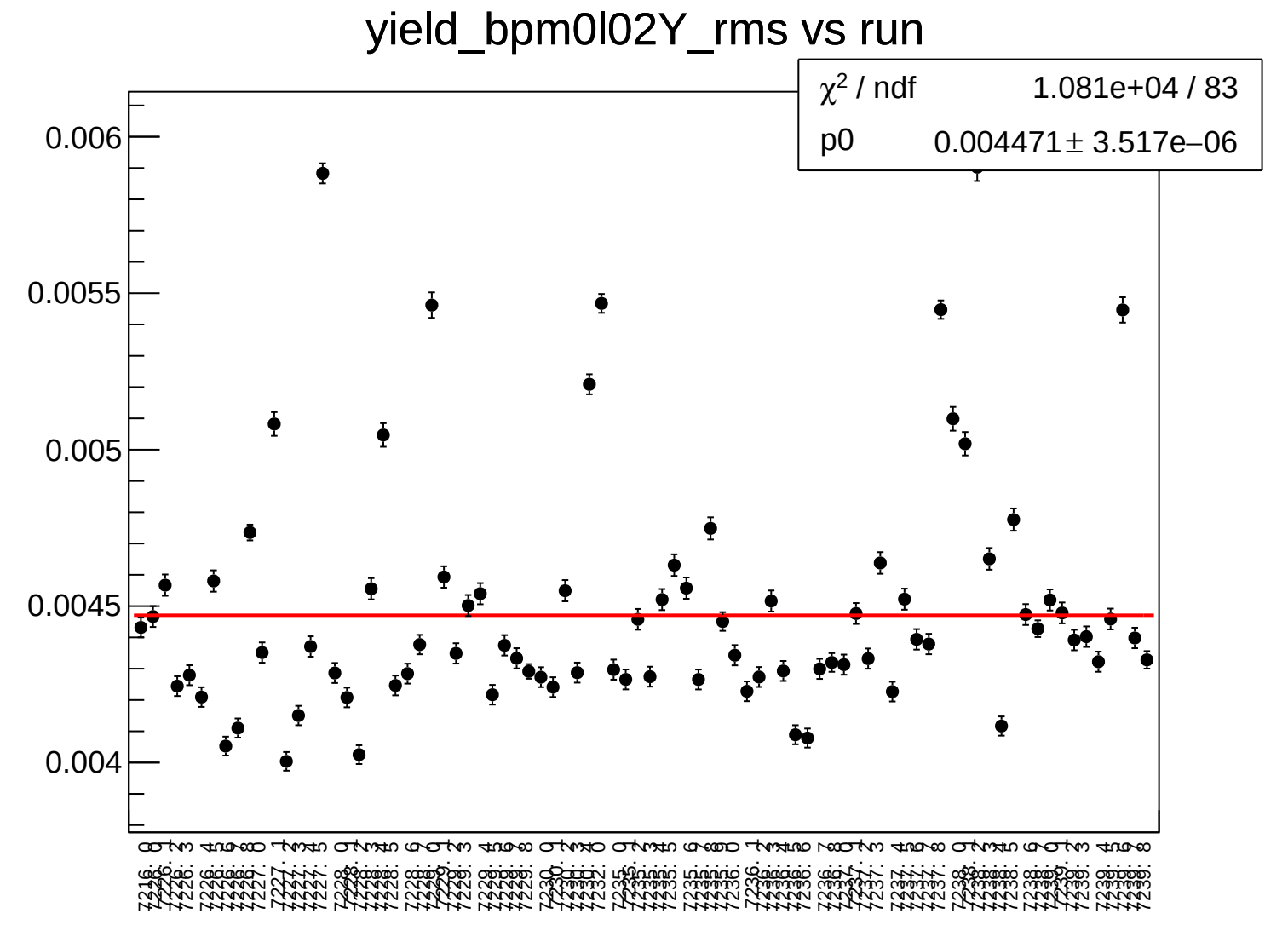

yield_bpm0l02X_mean vs run
χ² / ndf 4.661e+06 / 83
p0 −3.589 ± 1.671e−05
−3.45
−3.5
−3.55
−3.6
−3.65
pull
Entries 84
Mean 997.2
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600

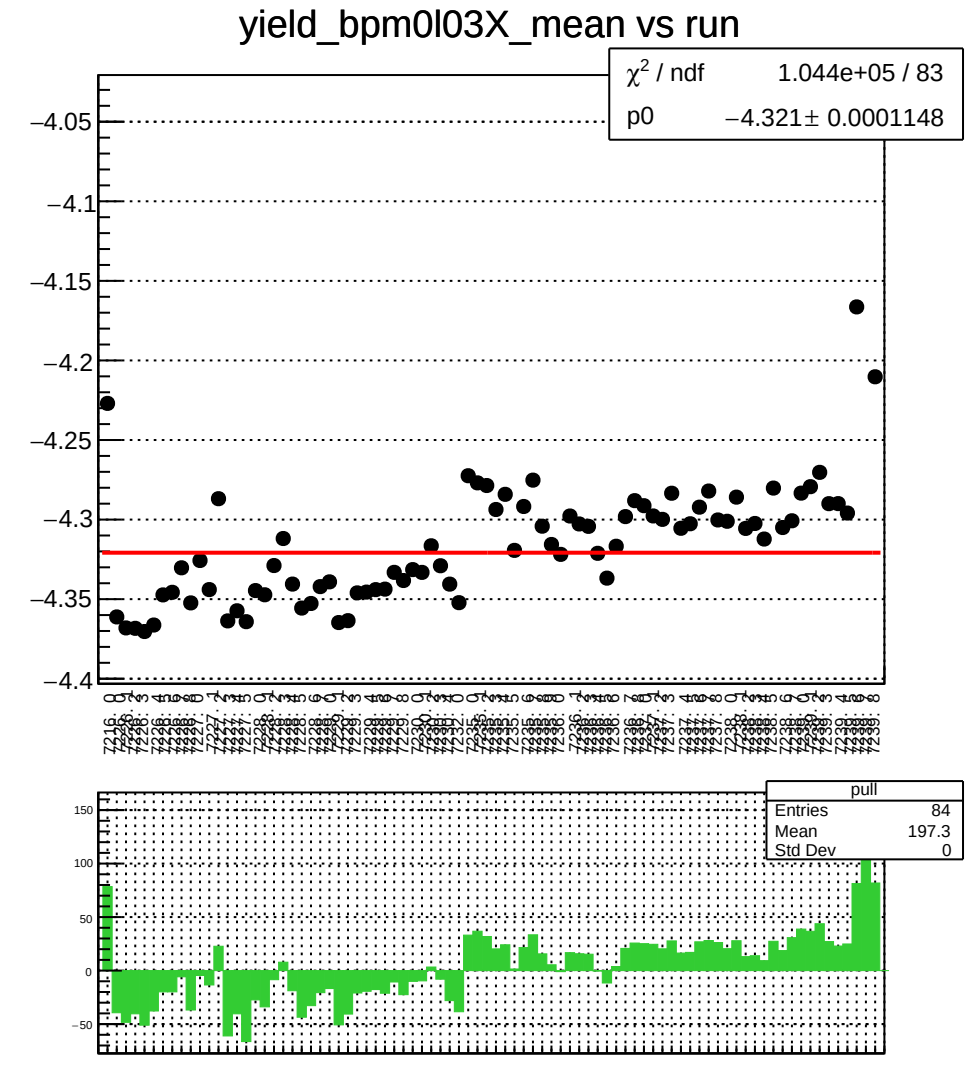

pull1D
Entries 84
Mean −1.575
Std Dev 5.765
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

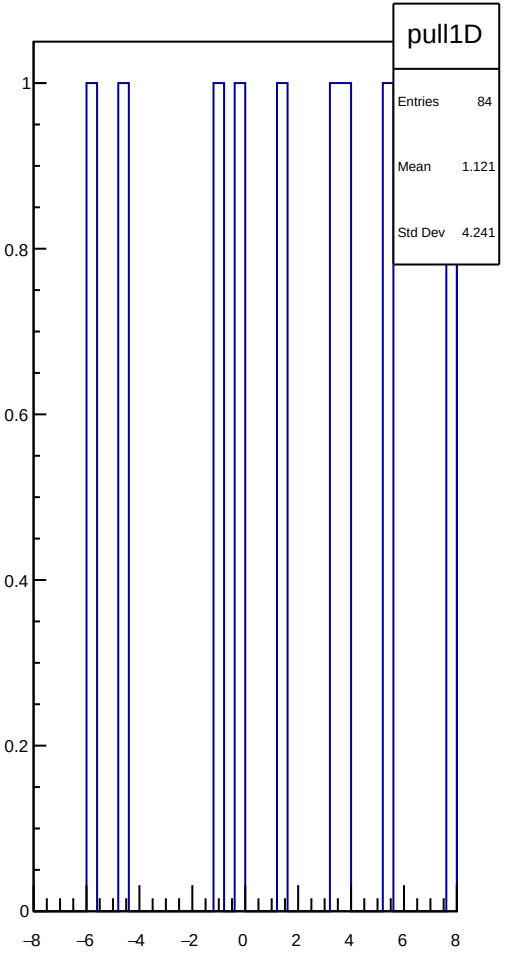

yield_bpm0l02X_rms vs run
χ^2 / ndf 1.647e+04 / 83
p0 0.01499 ± 1.181e–05
0.024
0.022
0.02
0.018
0.016
0.014
0.012

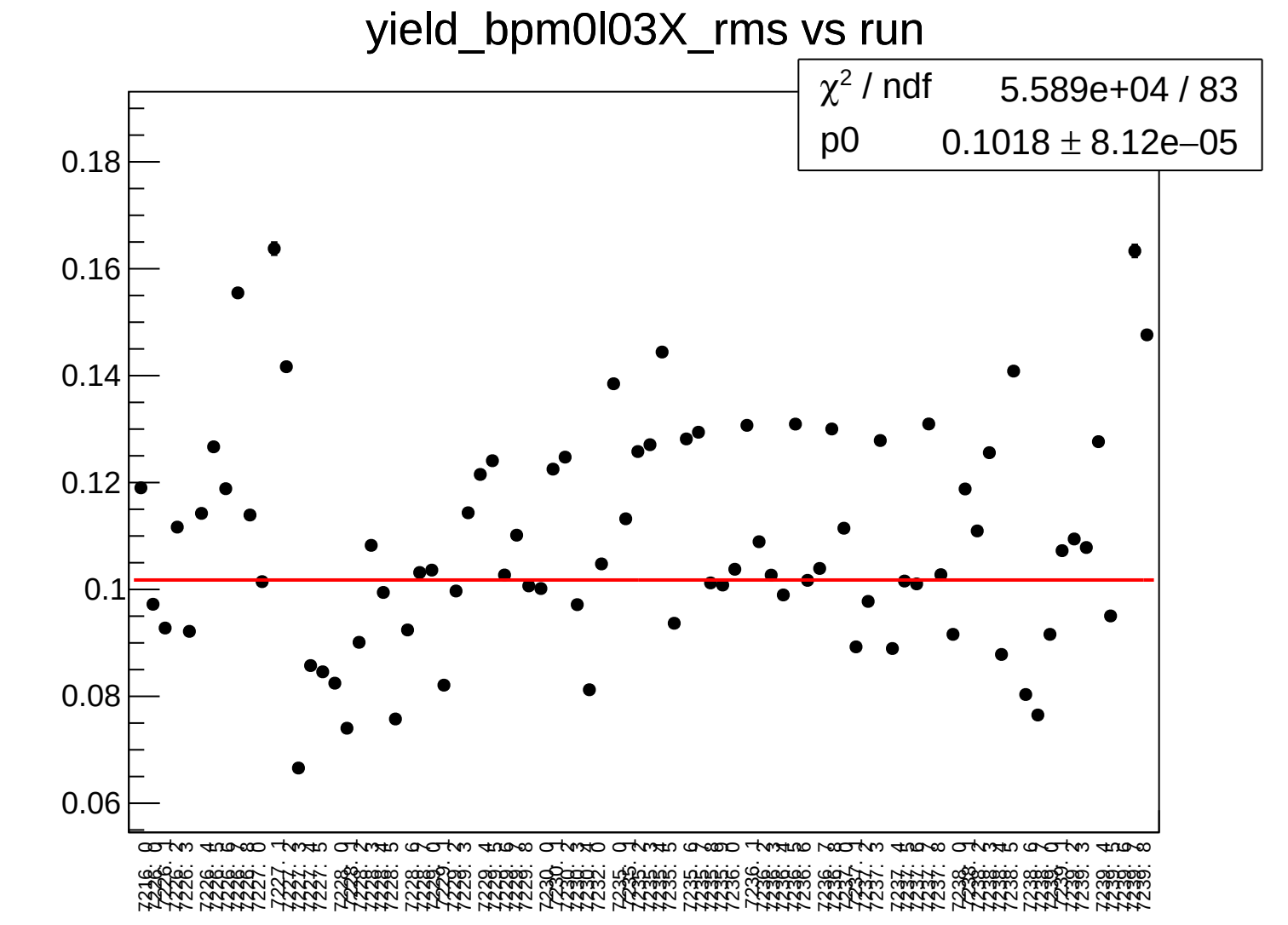

yield_bpm0l02Y_mean vs run
χ² / ndf 1.695e+06 / 83
p0 1.469 ± 4.974e−06
1.48
1.475
1.47
1.465
1.46
1.455
1.45
1.445
pull
Entries 84
Mean 1532
Std Dev 0
200
100
0
−100
−200
−300
−400
−500

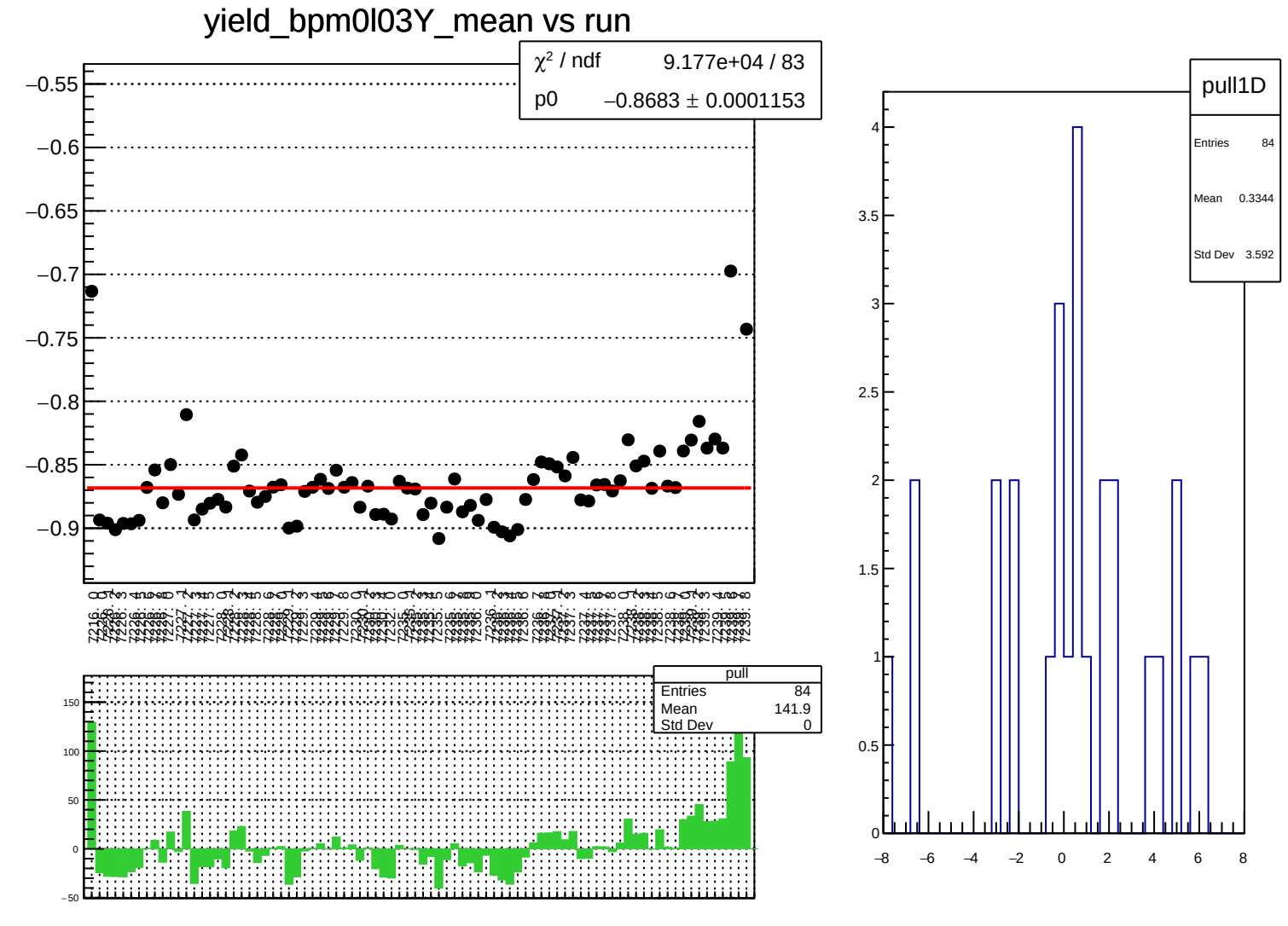

pull1D
Entries 84
Mean 1.177
Std Dev 3.474
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

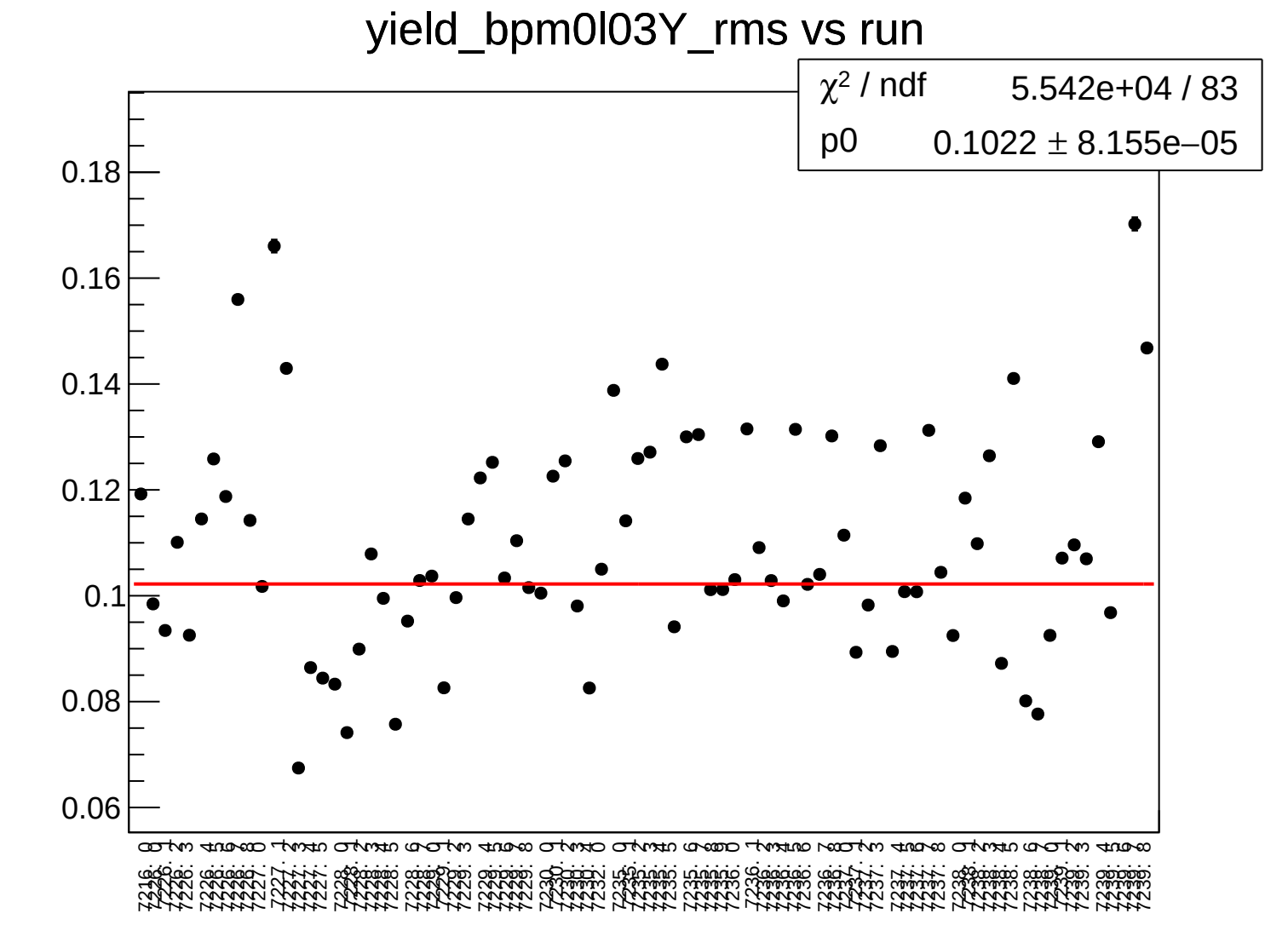

yield_bpm0l02Y_rms vs run
χ² / ndf 1.081e+04 / 83
p0 0.004471 ± 3.517e−06
0.006
0.0055
0.005
0.0045
0.004

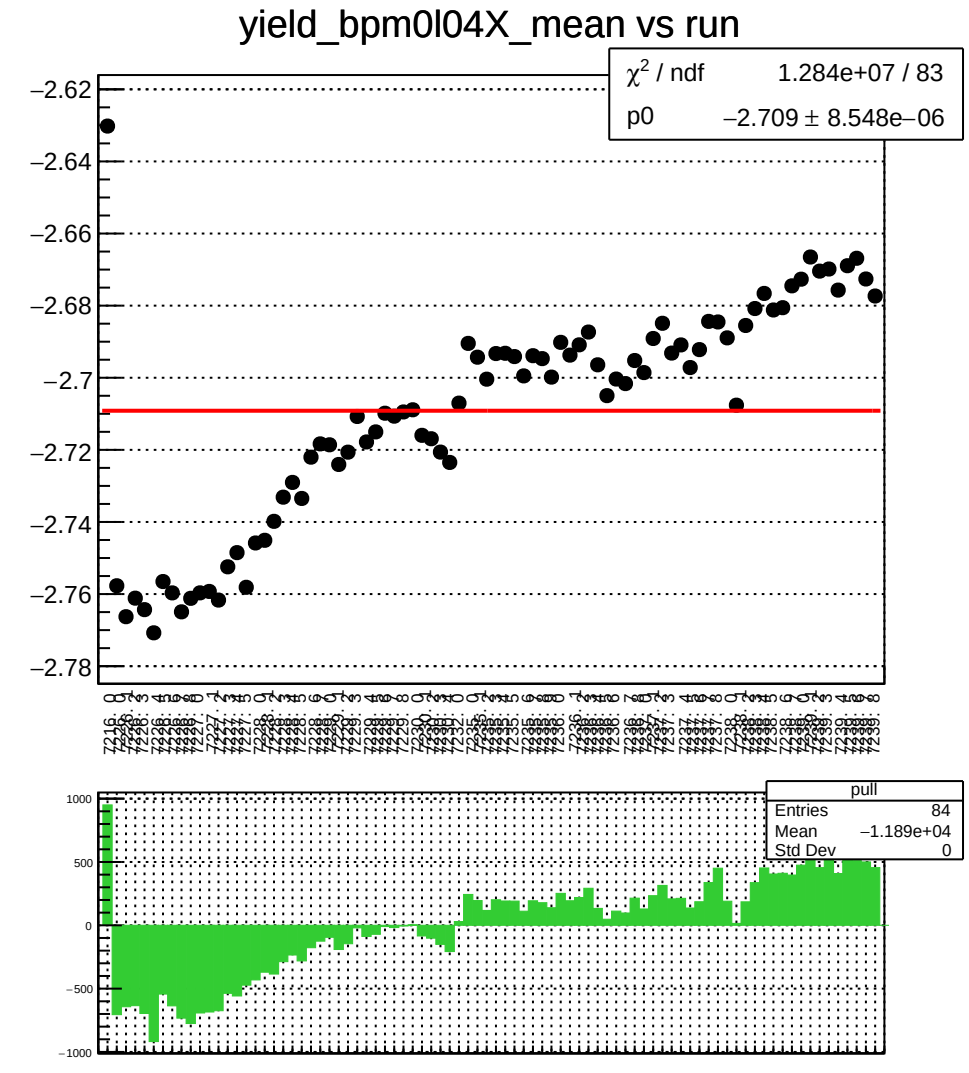

yield_bpm0l03X_mean vs run
χ² / ndf 1.044e+05 / 83
p0 −4.321 ± 0.0001148
−4.05
−4.1
−4.15
−4.2
−4.25
−4.3
−4.35
−4.4
pull
Entries 84
Mean 197.3
Std Dev 0
150
100
50
0
−50

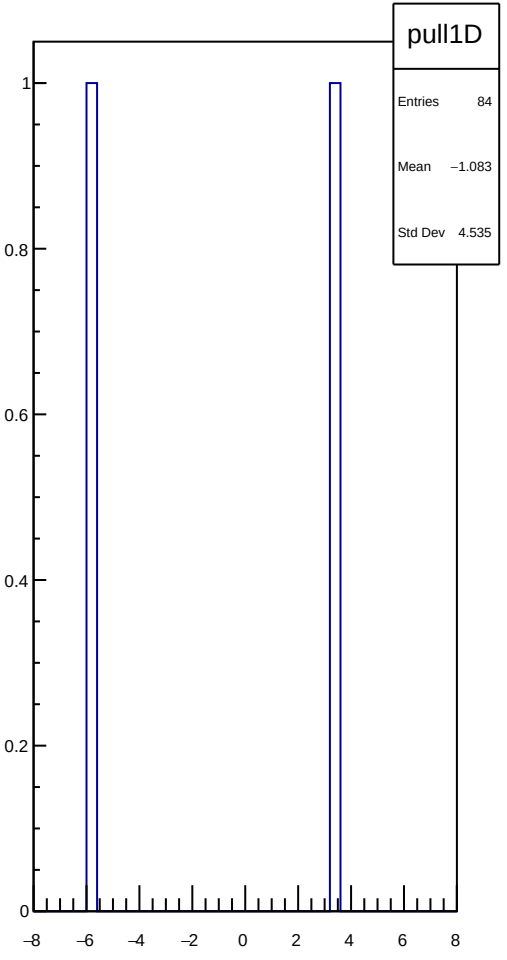

pull1D
Entries 84
Mean 1.121
Std Dev 4.241
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

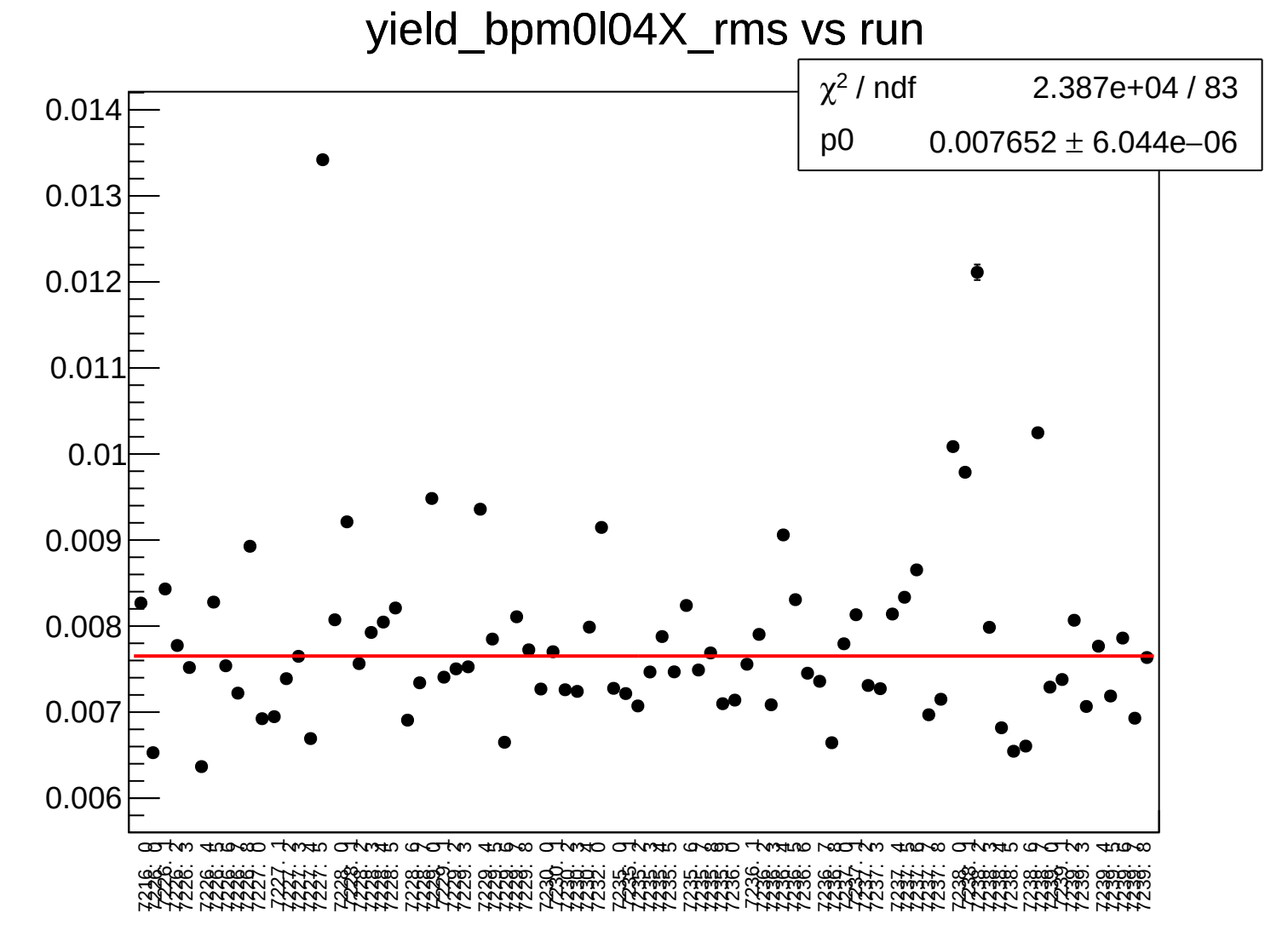

yield_bpm0l03X_rms vs run
χ^2 / ndf 5.589e+04 / 83
p0 0.1018 ± 8.12e−05
0.18
0.16
0.14
0.12
0.1
0.08
0.06

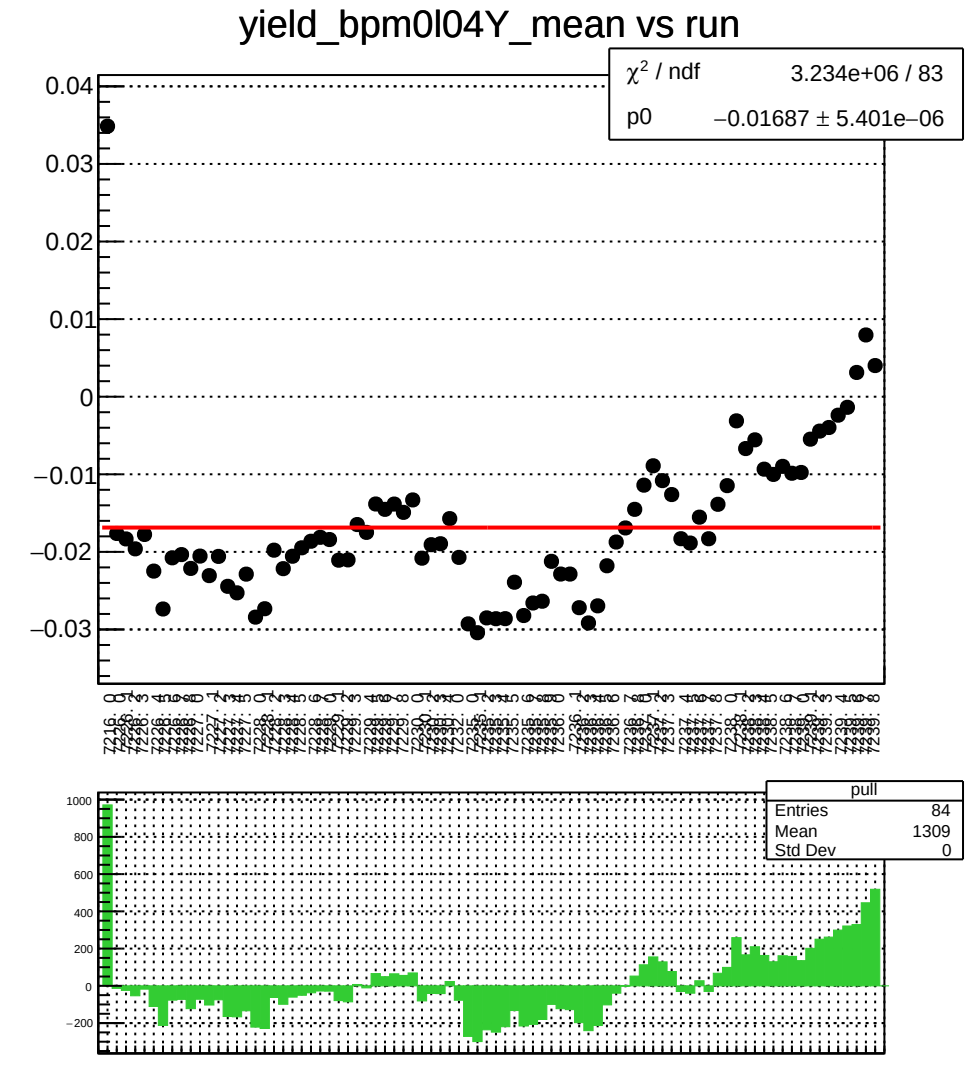

yield_bpm0l03Y_mean vs run
χ² / ndf 9.177e+04 / 83
p0 −0.8683 ± 0.0001153
pull
Entries 84
Mean 141.9
Std Dev 0
pull1D
Entries 84
Mean 0.3344
Std Dev 3.592

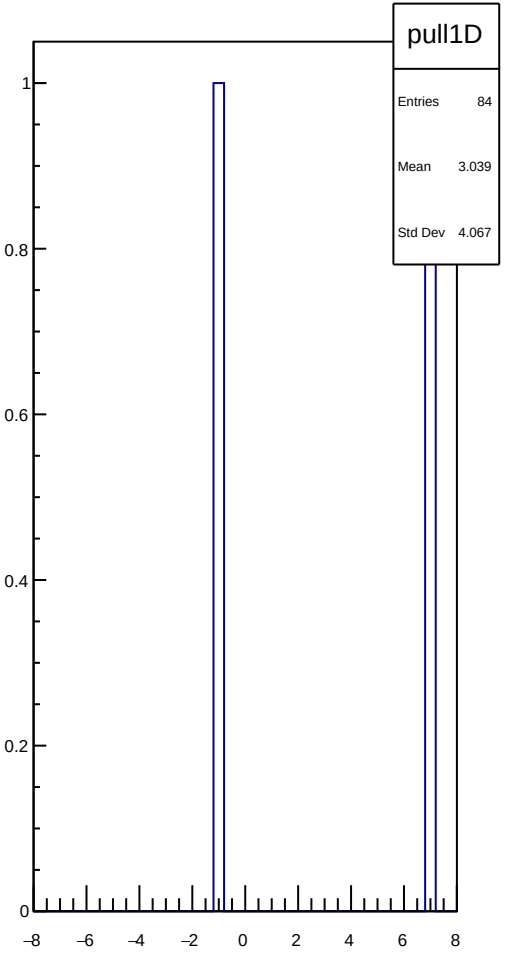

yield_bpm0l03Y_rms vs run
χ² / ndf 5.542e+04 / 83
p0 0.1022 ± 8.155e−05
0.18
0.16
0.14
0.12
0.1
0.08
0.06

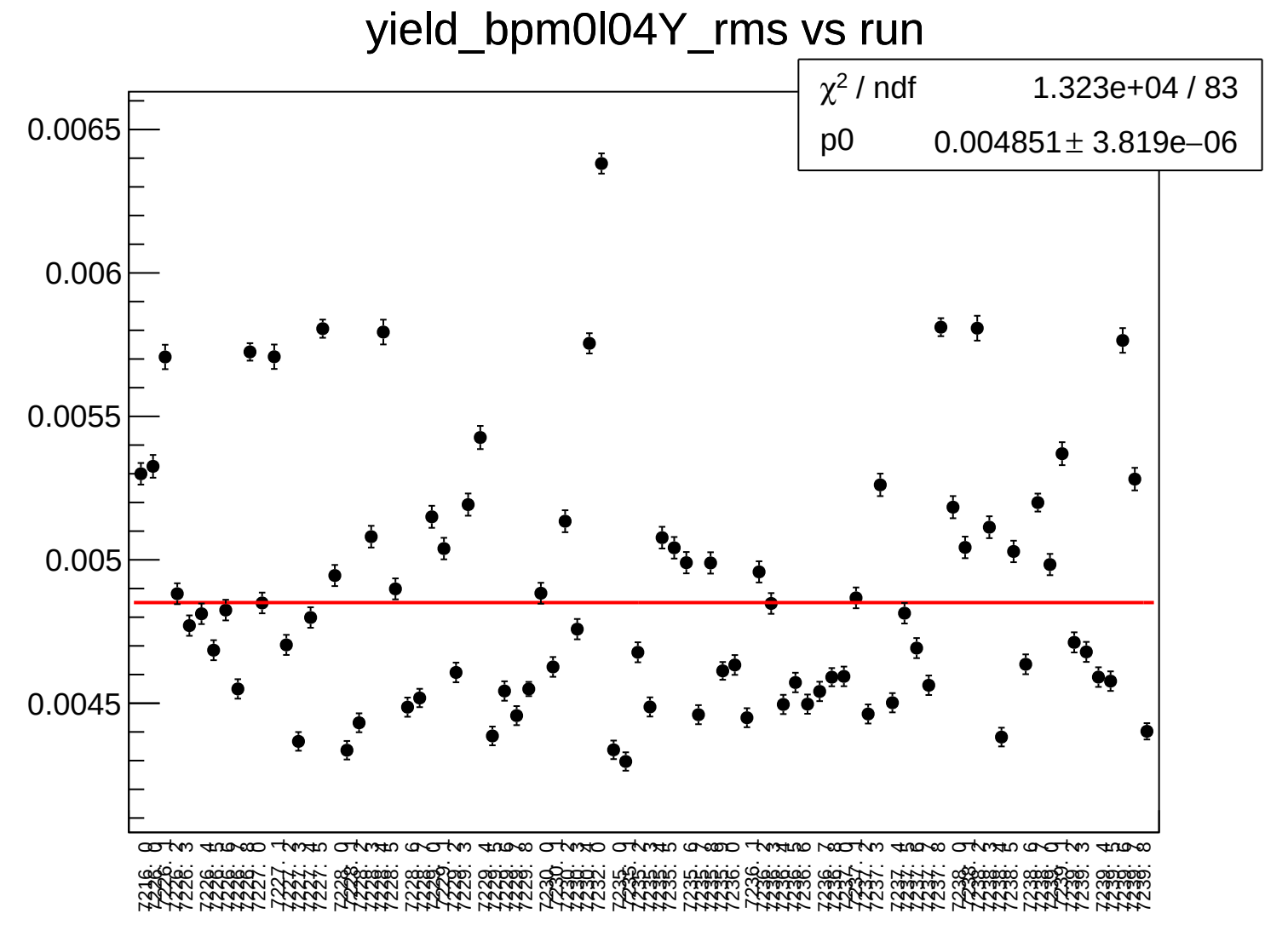

yield_bpm0l04X_mean vs run
χ² / ndf 1.284e+07 / 83
p0 −2.709 ± 8.548e−06
−2.62
−2.64
−2.66
−2.68
−2.7
−2.72
−2.74
−2.76
−2.78
pull
Entries 84
Mean −1.189e+04
Std Dev 0
1000
500
0
−500
−1000

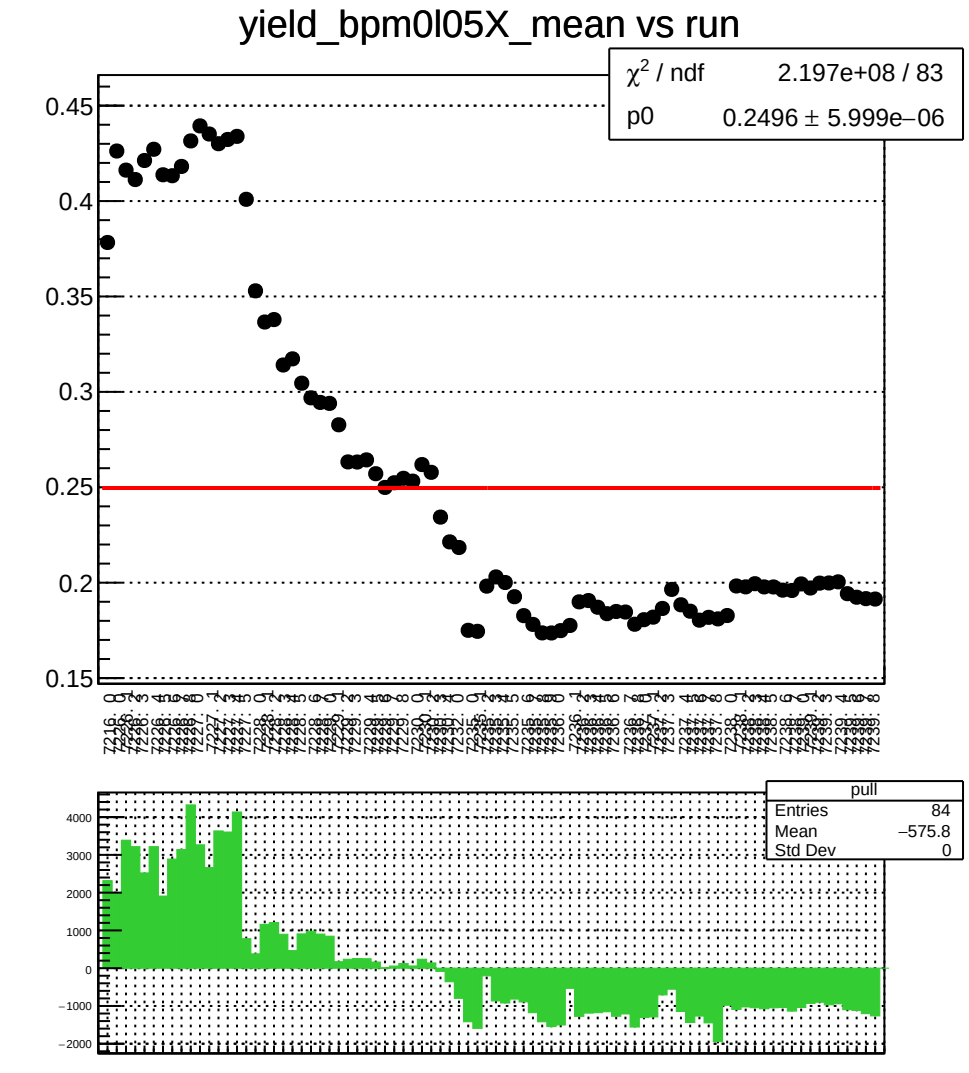

pull1D
Entries 84
Mean −1.083
Std Dev 4.535
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

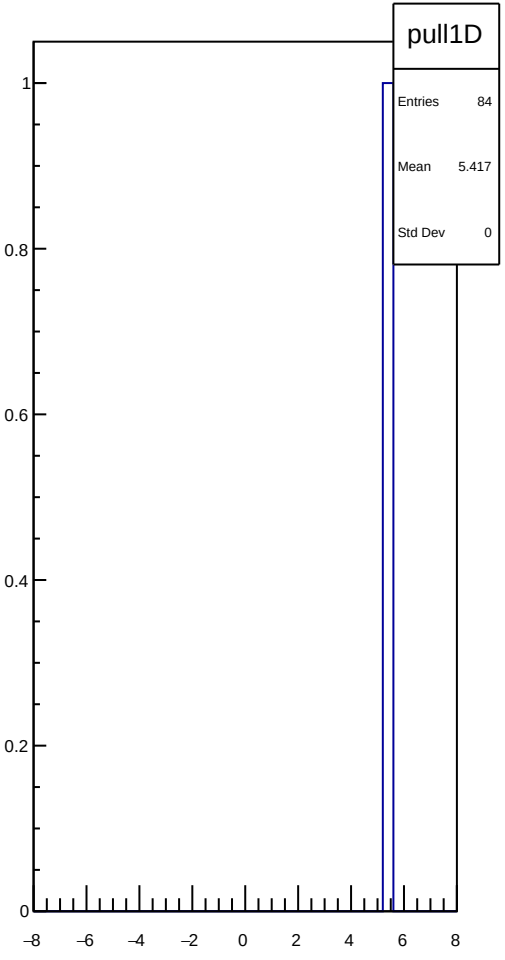

yield_bpm0l04X_rms vs run
χ² / ndf 2.387e+04 / 83
p0 0.007652 ± 6.044e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006

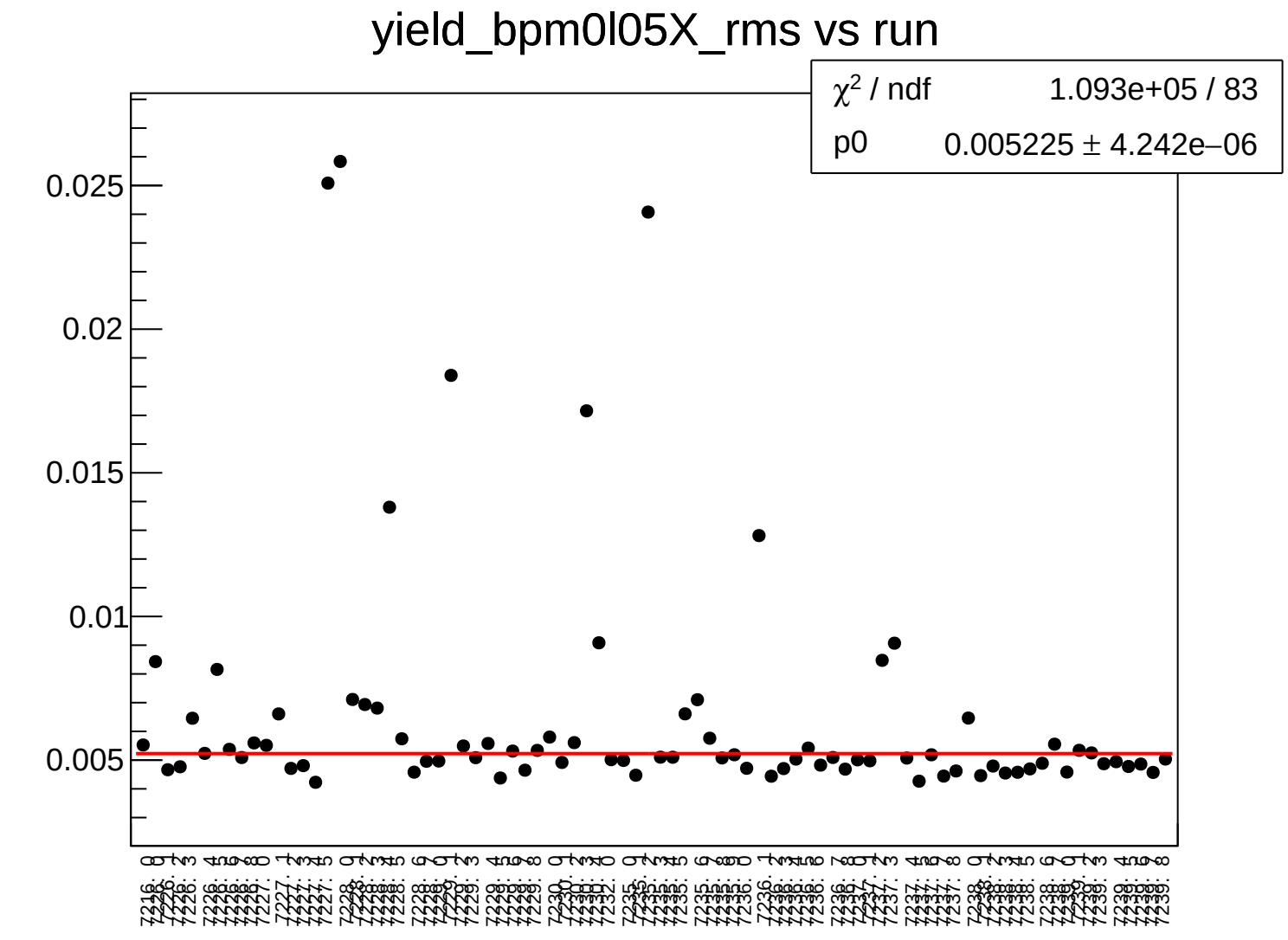

yield_bpm0l04Y_mean vs run
χ² / ndf 3.234e+06 / 83
p0 −0.01687 ± 5.401e−06
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 84
Mean 1309
Std Dev 0
1000
800
600
400
200
0
−200

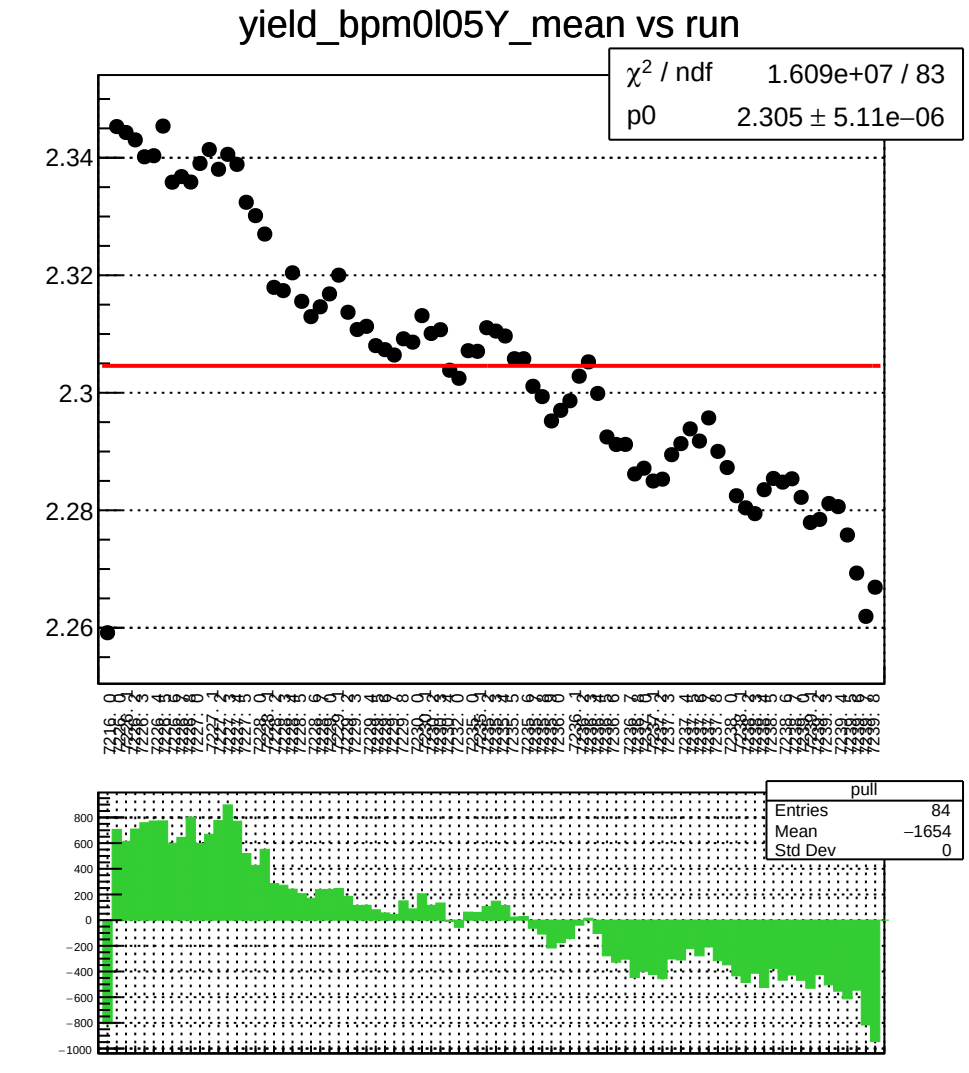

pull1D
Entries 84
Mean 3.039
Std Dev 4.067
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

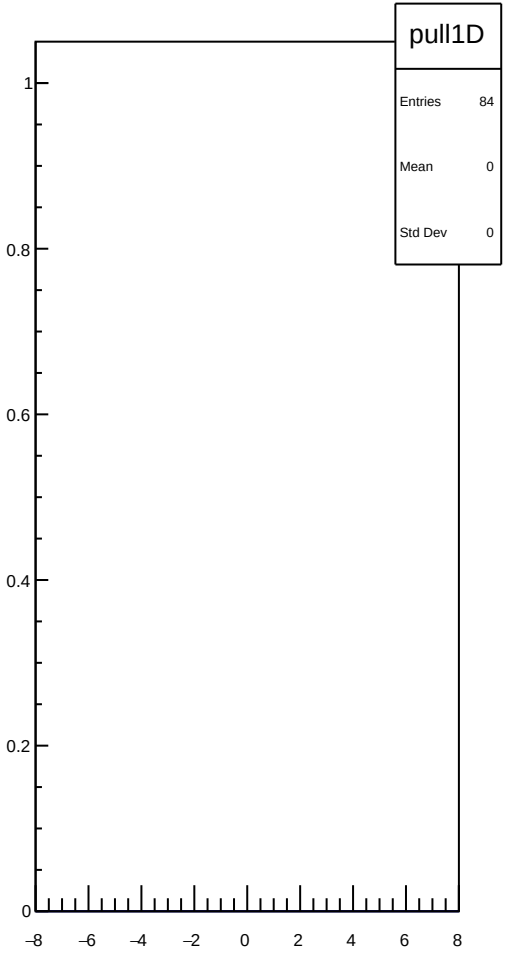

yield_bpm0l04Y_rms vs run
χ² / ndf 1.323e+04 / 83
p0 0.004851 ± 3.819e−06
0.0065
0.006
0.0055
0.005
0.0045

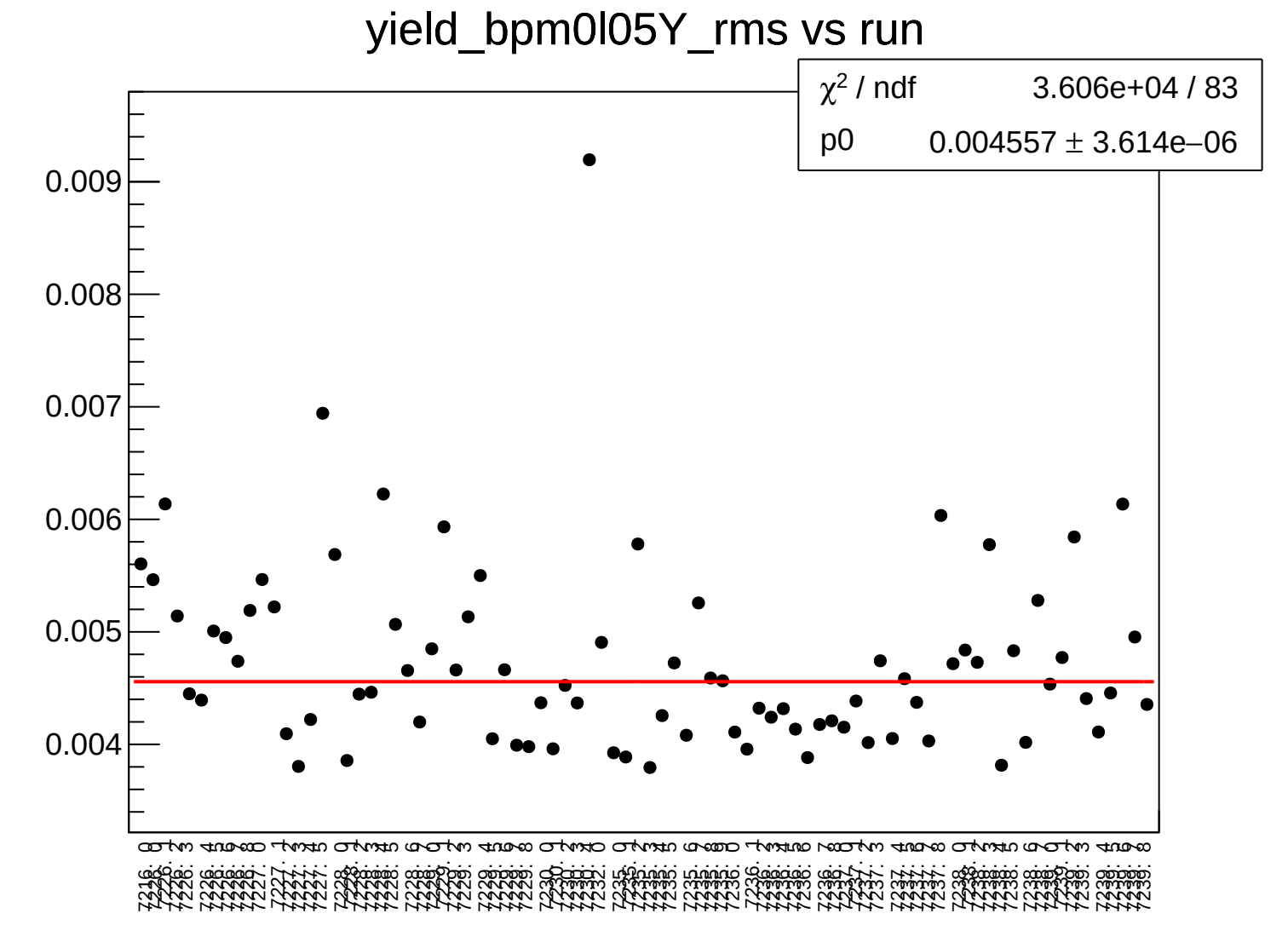

yield_bpm0l05X_mean vs run
χ² / ndf 2.197e+08 / 83
p0 0.2496 ± 5.999e−06
0.45
0.4
0.35
0.3
0.25
0.2
0.15
pull
Entries 84
Mean −575.8
Std Dev 0
4000
3000
2000
1000
0
−1000
−2000

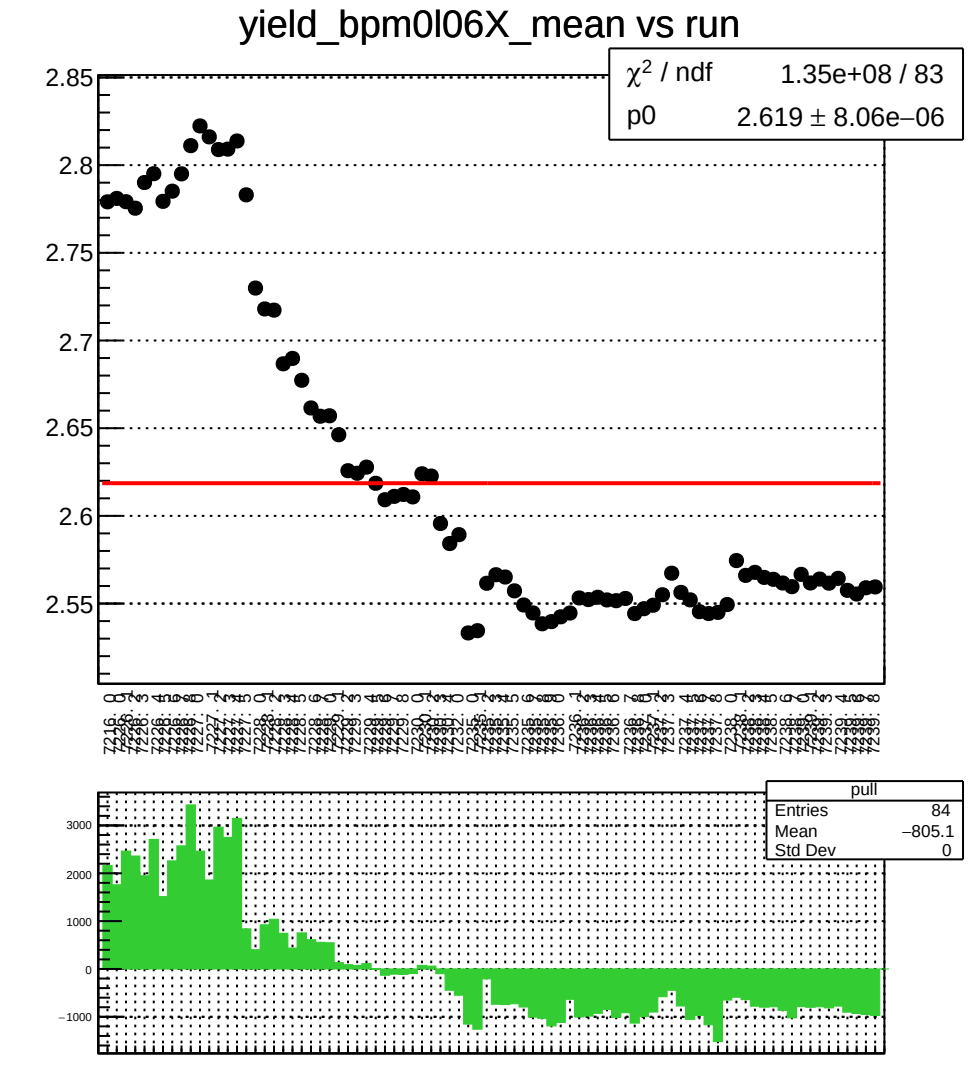

pull1D
Entries 84
Mean 5.417
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

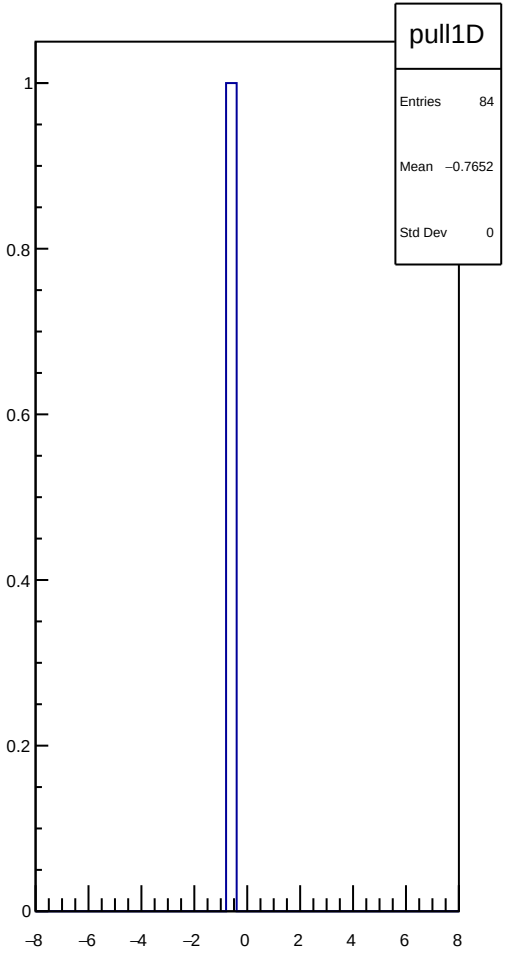

yield_bpm0l05X_rms vs run
χ² / ndf 1.093e+05 / 83
p0 0.005225 ± 4.242e−06
0.025
0.02
0.015
0.01
0.005

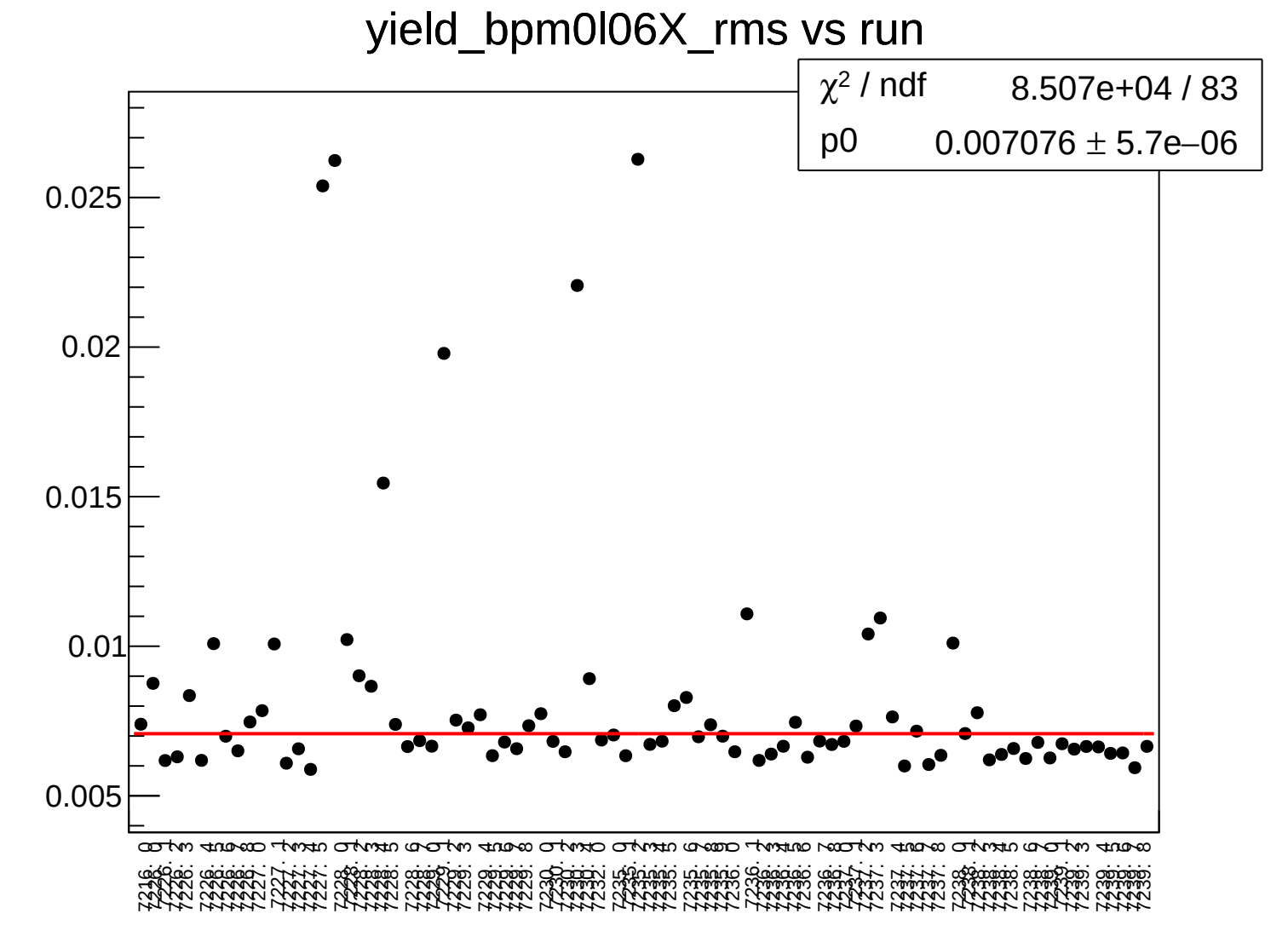

yield_bpm0l05Y_mean vs run
χ² / ndf 1.609e+07 / 83
p0 2.305 ± 5.11e−06
2.34
2.32
2.3
2.28
2.26
pull
Entries 84
Mean −1654
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000

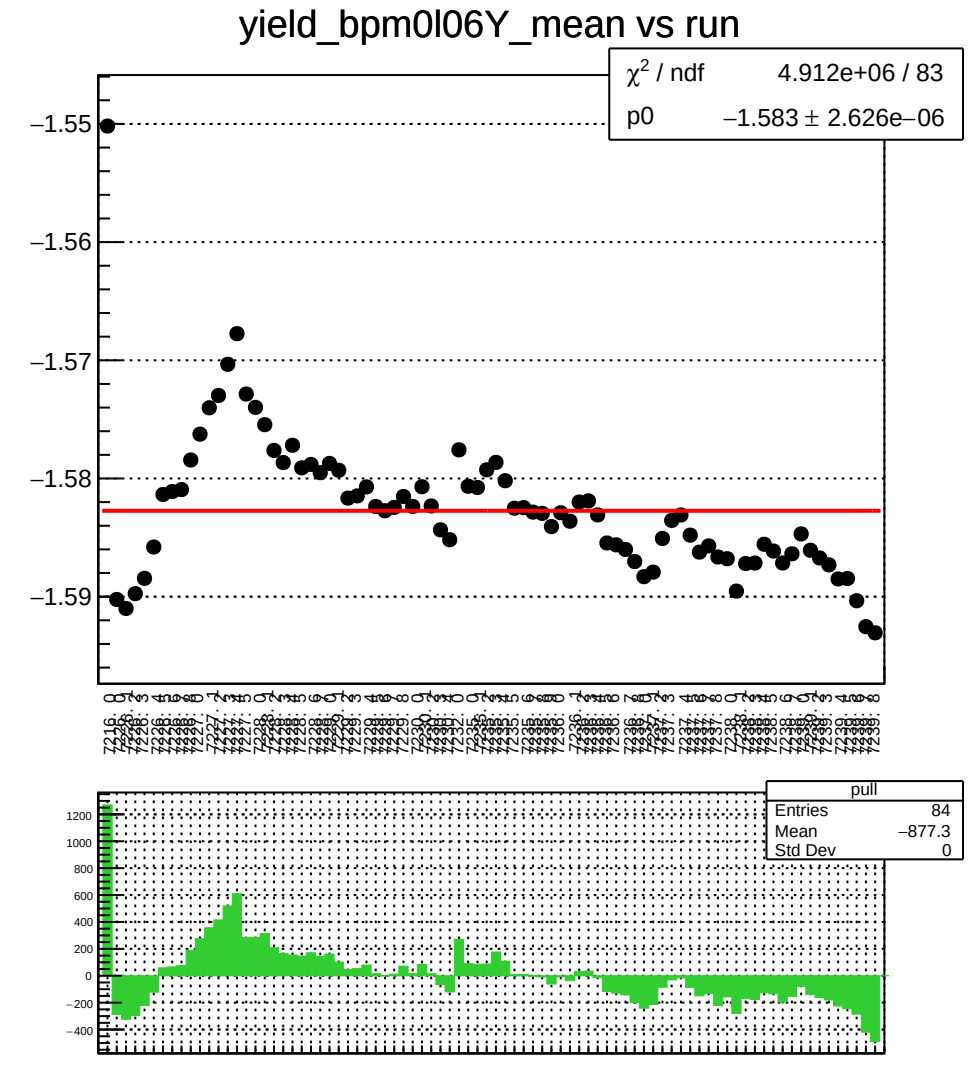

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

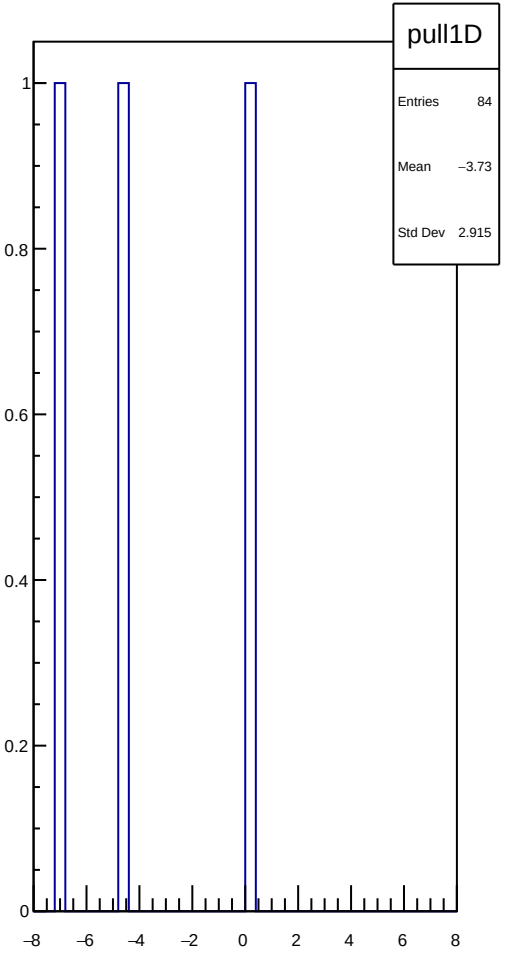

yield_bpm0l05Y_rms vs run
χ² / ndf 3.606e+04 / 83
p0 0.004557 ± 3.614e−06
0.009
0.008
0.007
0.006
0.005
0.004

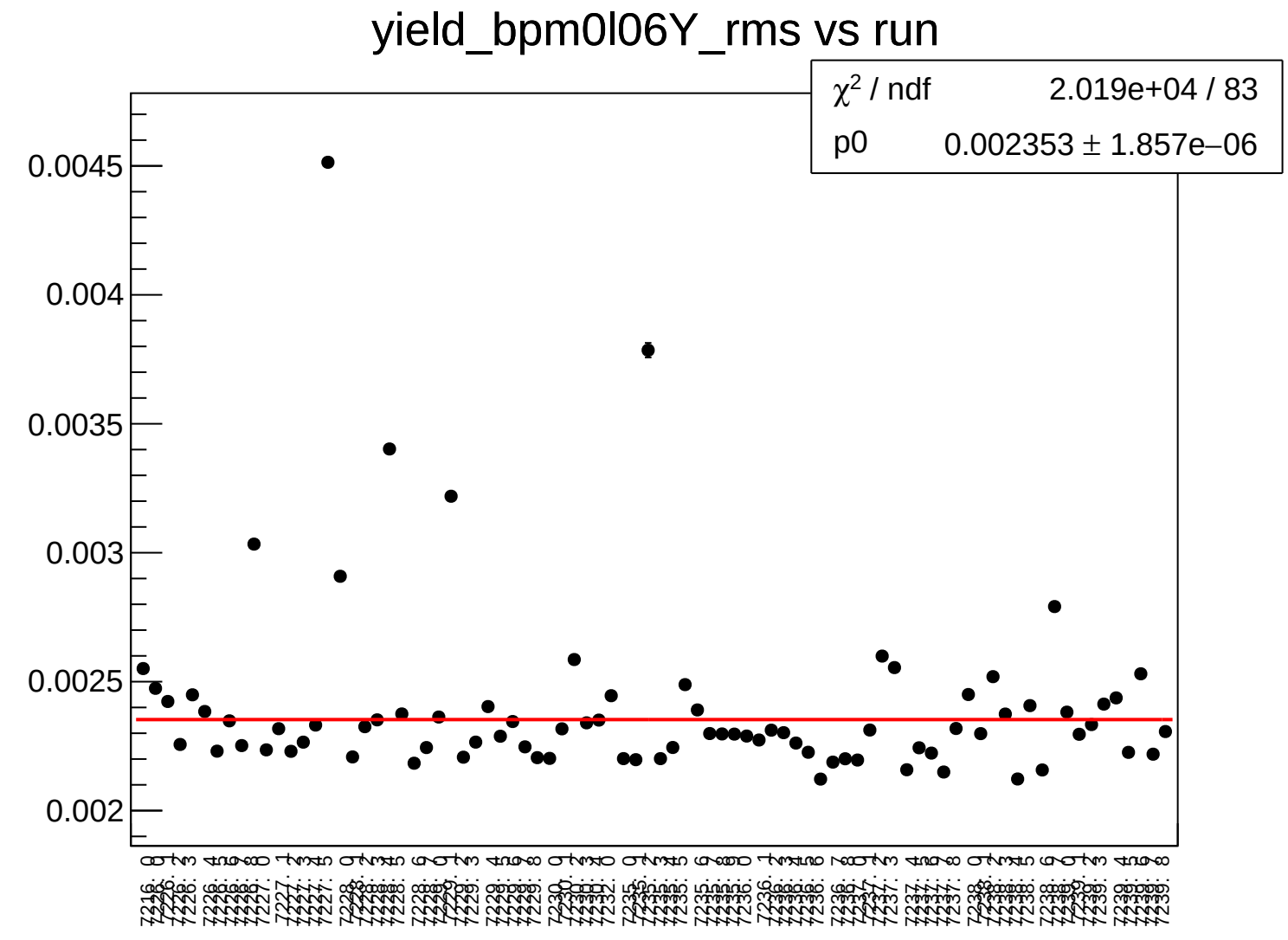

yield_bpm0l06X_mean vs run
χ² / ndf 1.35e+08 / 83
p0 2.619 ± 8.06e−06
2.85
2.8
2.75
2.7
2.65
2.6
2.55
pull
Entries 84
Mean −805.1
Std Dev 0
3000
2000
1000
0
−1000

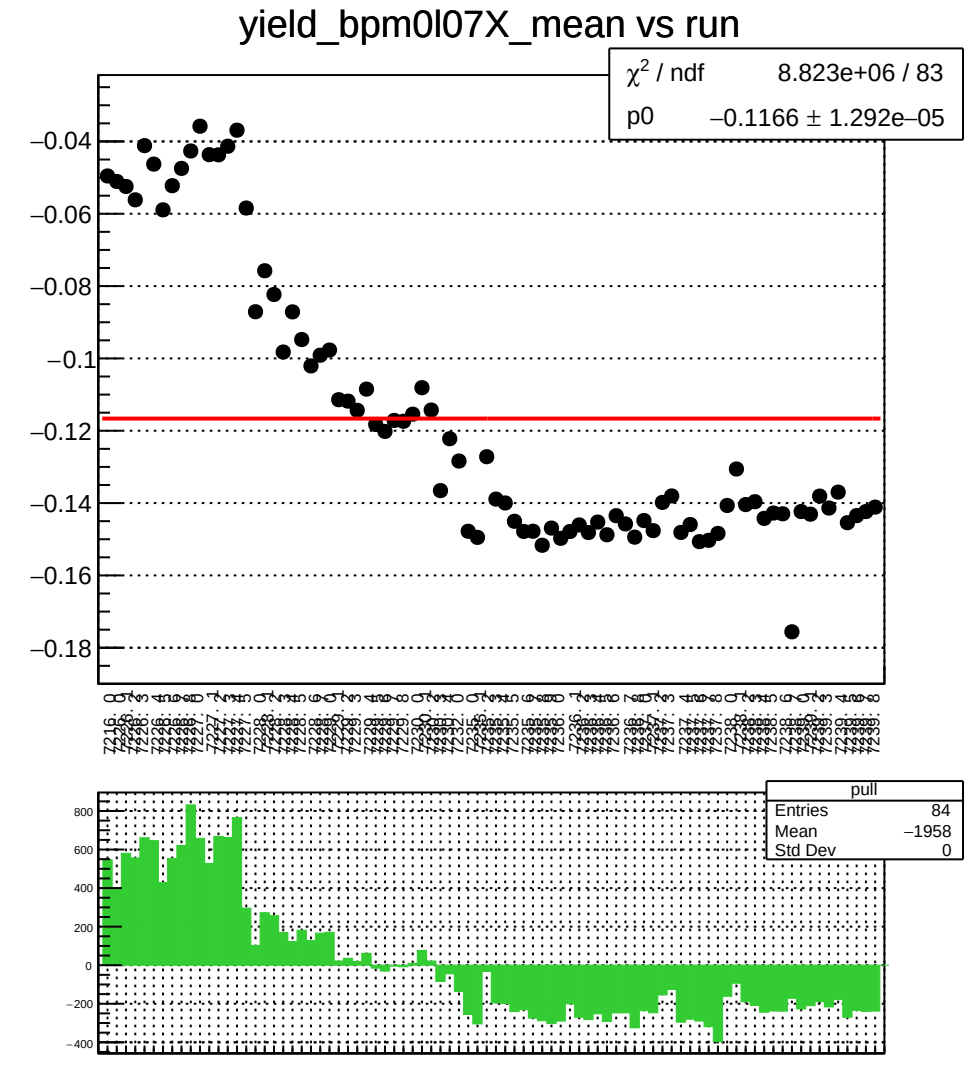

pull1D
Entries 84
Mean −0.7652
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

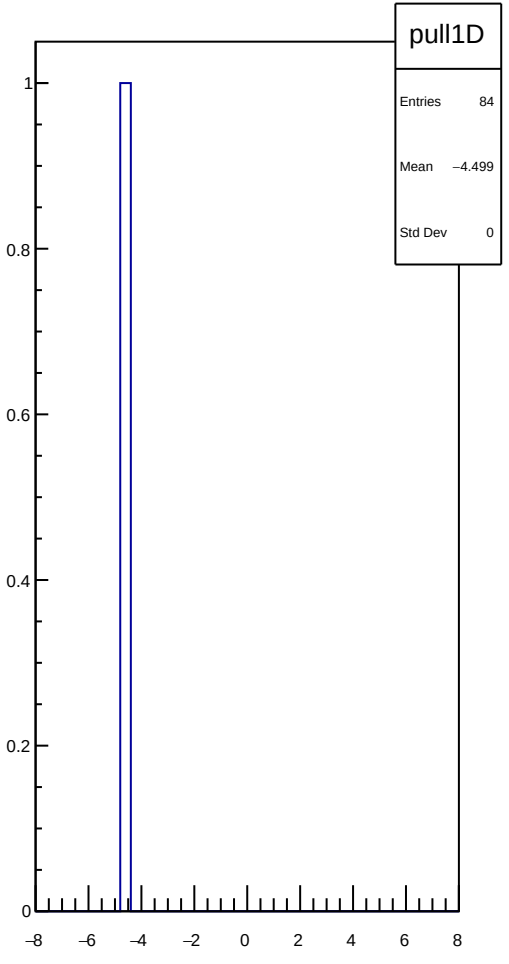

yield_bpm0l06X_rms vs run
χ² / ndf 8.507e+04 / 83
p0 0.007076 ± 5.7e–06
0.025
0.02
0.015
0.01
0.005

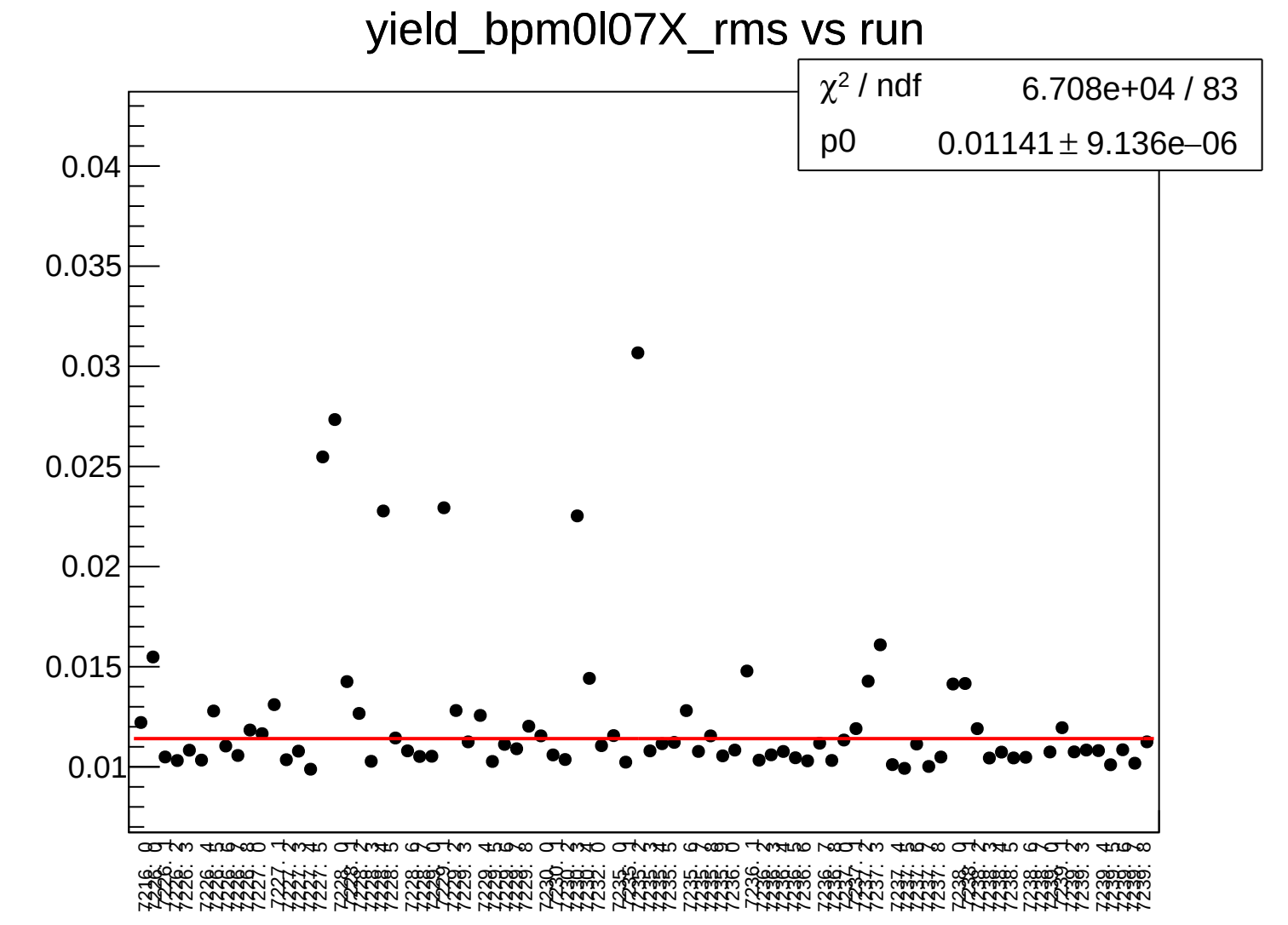

yield_bpm0l06Y_mean vs run
χ² / ndf 4.912e+06 / 83
p0 −1.583 ± 2.626e−06
−1.55
−1.56
−1.57
−1.58
−1.59
pull
Entries 84
Mean −877.3
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400

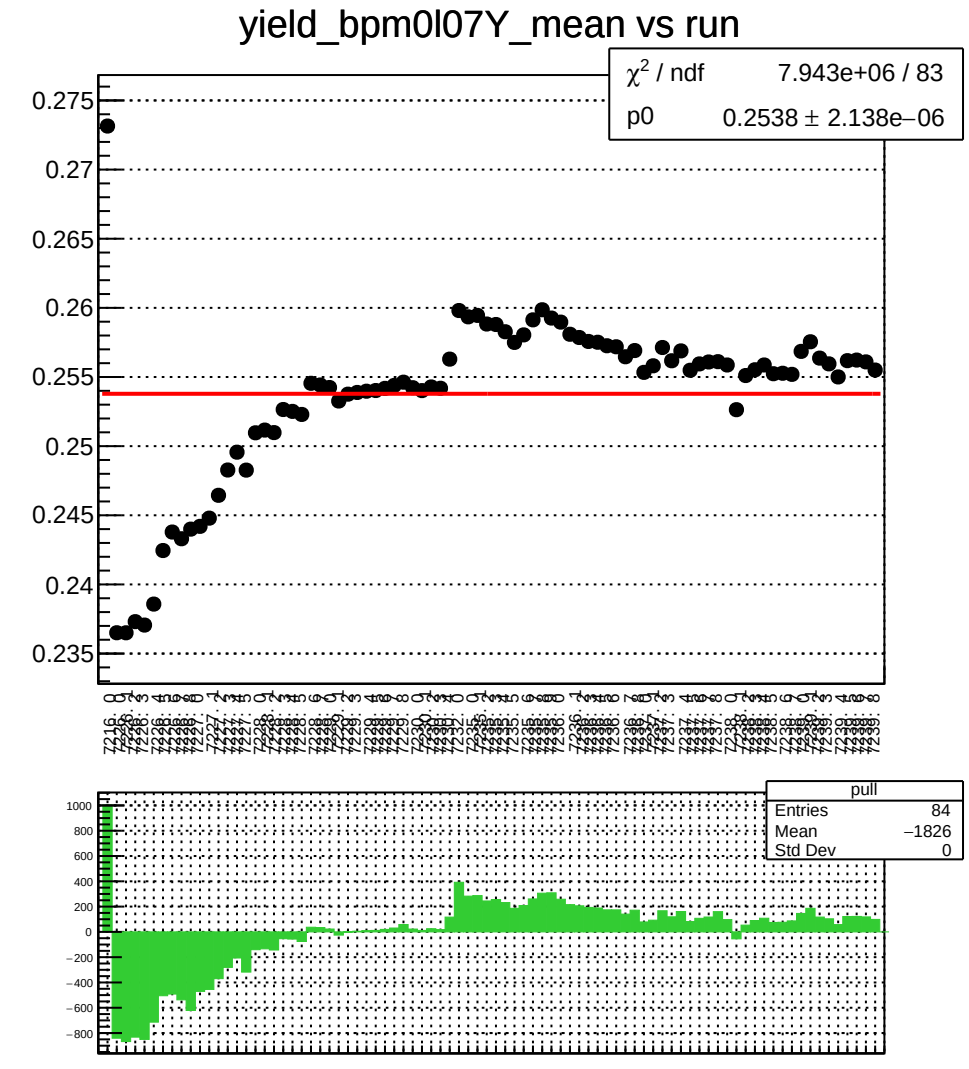

pull1D
Entries 84
Mean −3.73
Std Dev 2.915
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

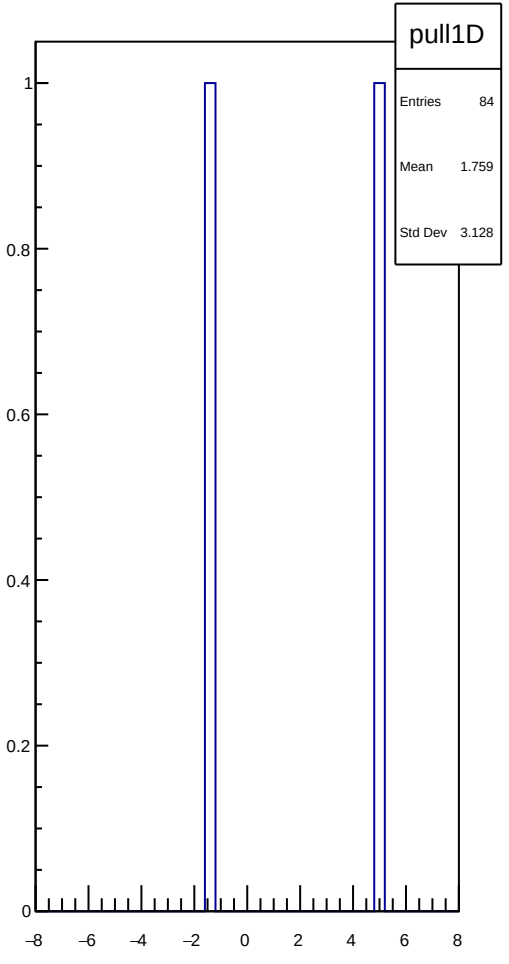

yield_bpm0l06Y_rms vs run
χ² / ndf 2.019e+04 / 83
p0 0.002353 ± 1.857e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002

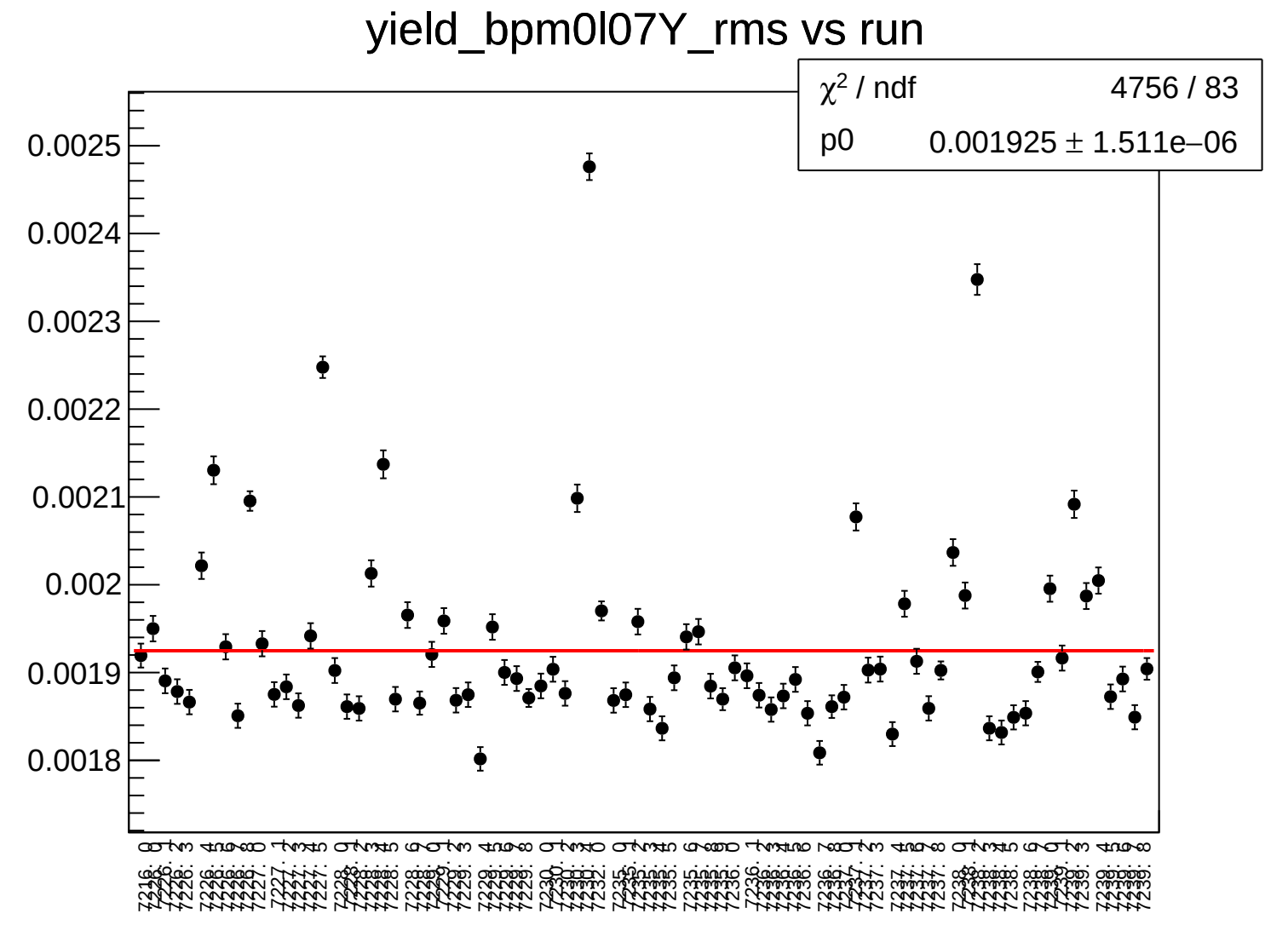

yield_bpm0l07X_mean vs run
χ² / ndf 8.823e+06 / 83
p0 −0.1166 ± 1.292e−05
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
−0.16
−0.18
pull
Entries 84
Mean −1958
Std Dev 0
800
600
400
200
0
−200
−400

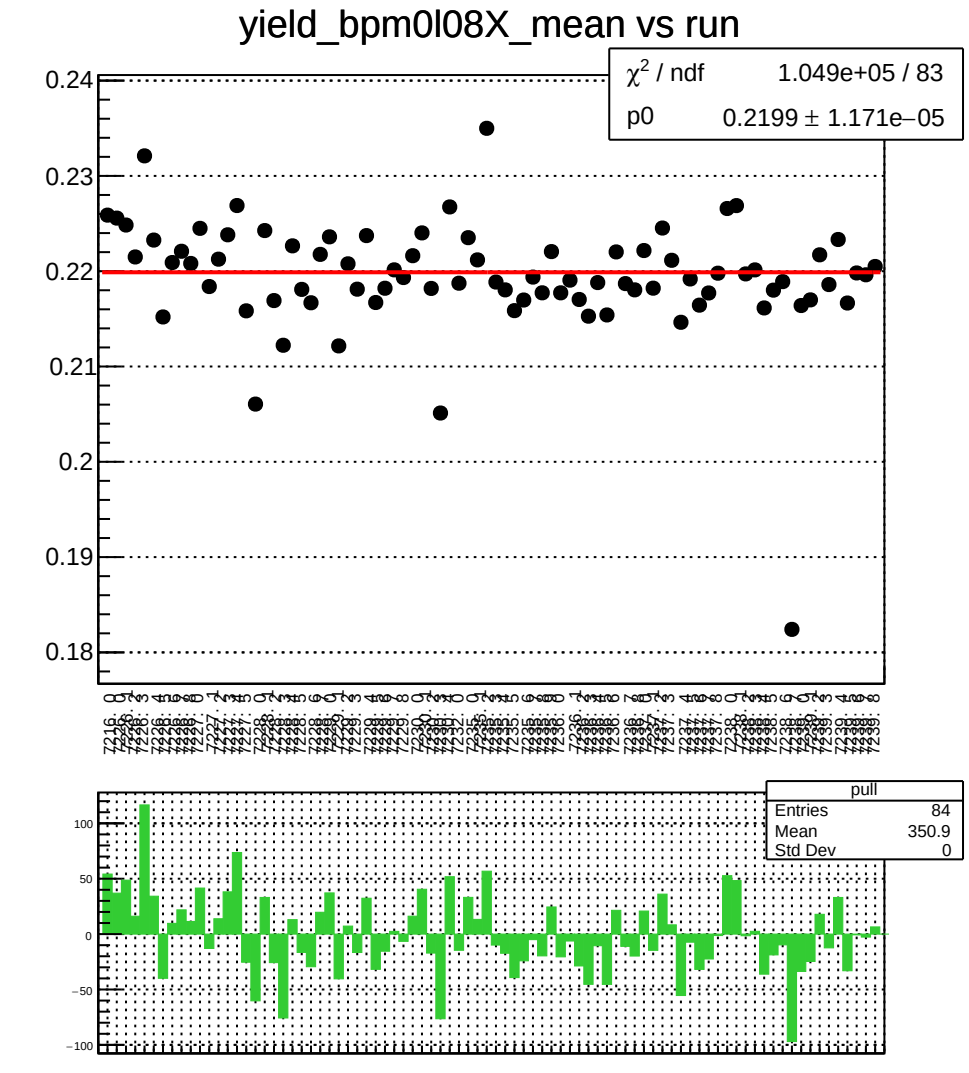

pull1D
Entries 84
Mean −4.499
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

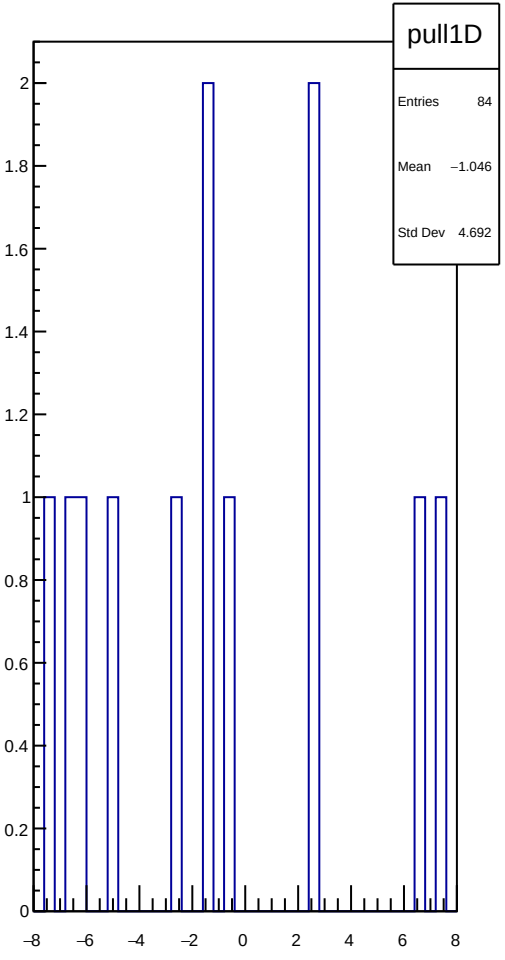

yield_bpm0l07X_rms vs run
χ² / ndf 6.708e+04 / 83
p0 0.01141 ± 9.136e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01

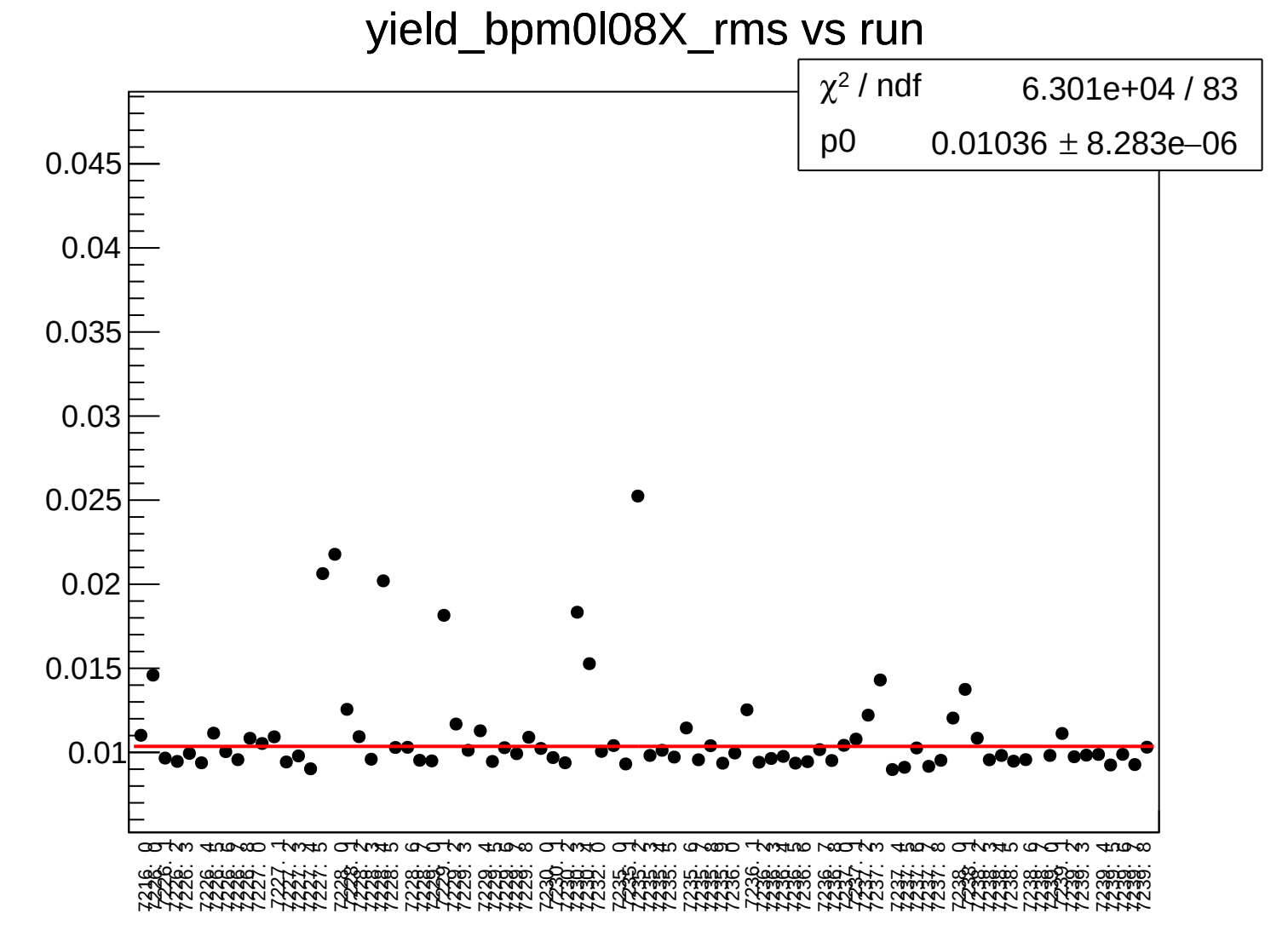

yield_bpm0l07Y_mean vs run
χ² / ndf 7.943e+06 / 83
p0 0.2538 ± 2.138e−06
0.275
0.27
0.265
0.26
0.255
0.25
0.245
0.24
0.235
pull
Entries 84
Mean −1826
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600
−800

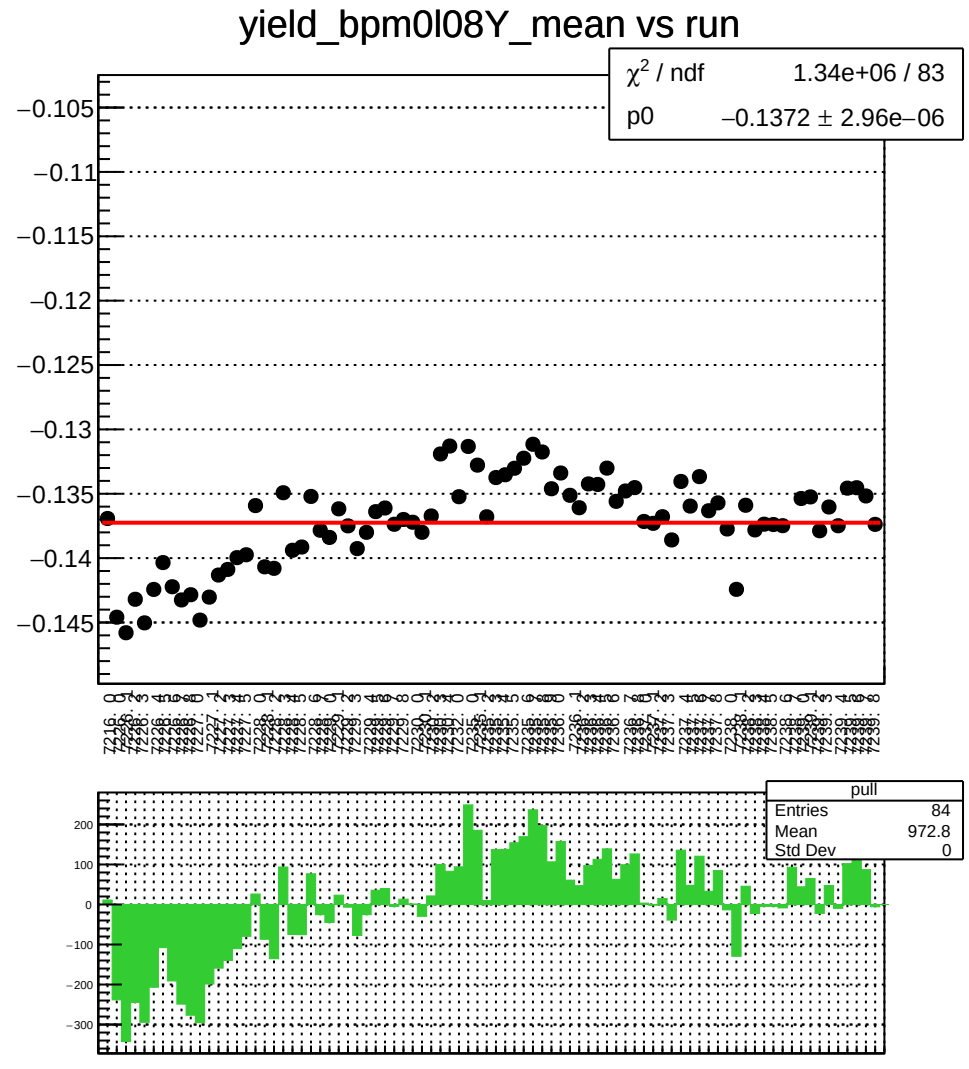

pull1D
Entries 84
Mean 1.759
Std Dev 3.128
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

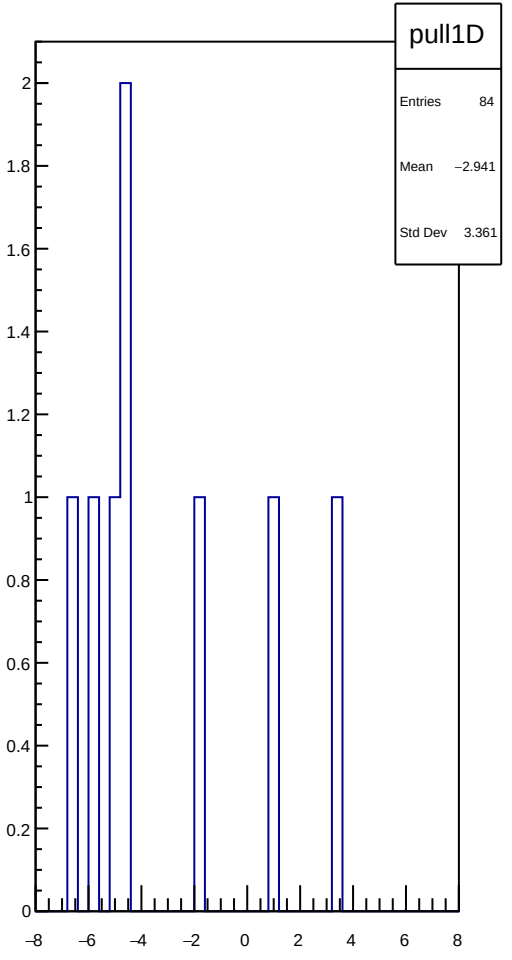

yield_bpm0l07Y_rms vs run
χ² / ndf 4756 / 83
p0 0.001925 ± 1.511e−06
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
0.0019
0.0018

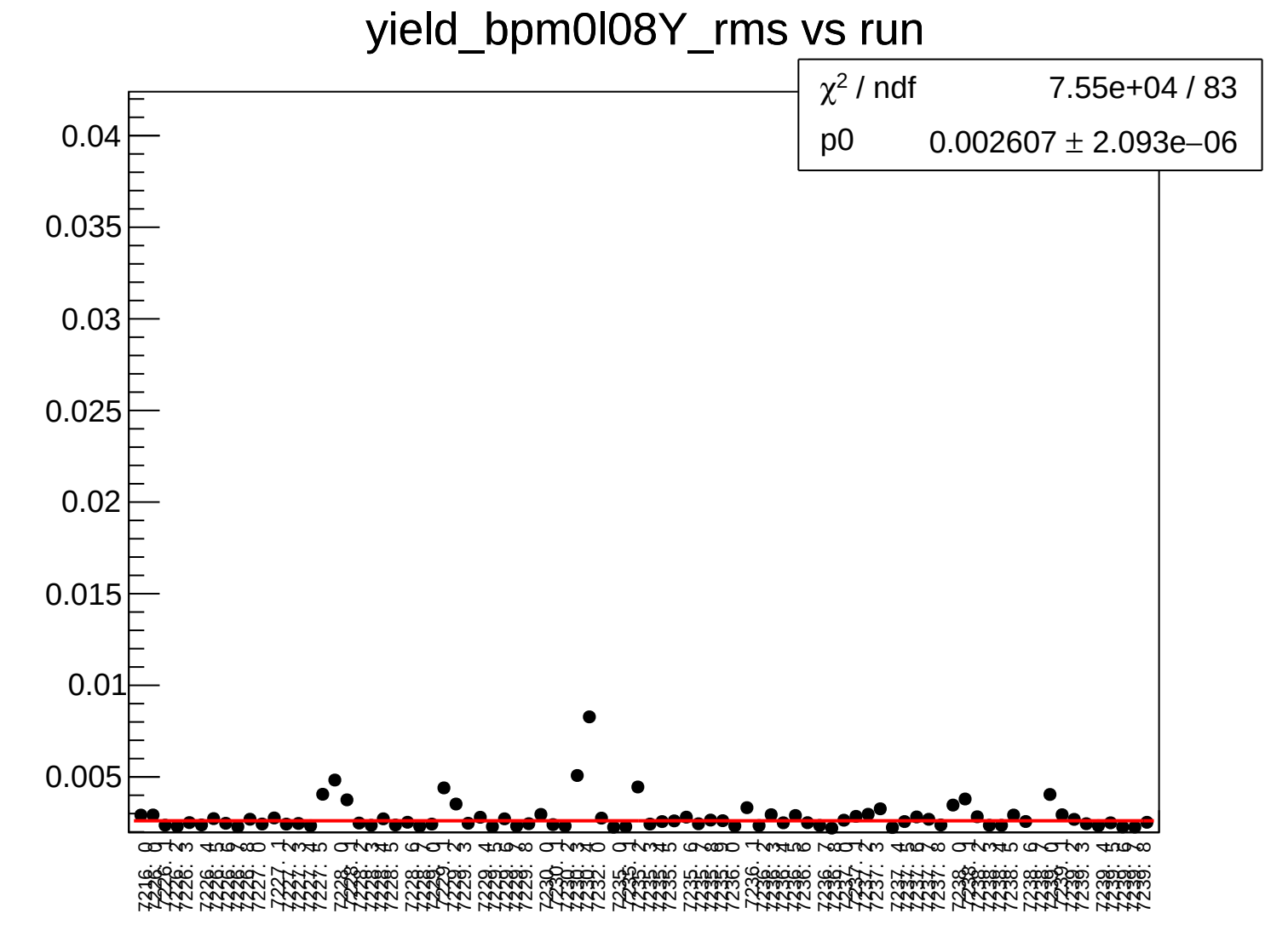

yield_bpm0l08X_mean vs run
χ² / ndf 1.049e+05 / 83
p0 0.2199 ± 1.171e−05
0.24
0.23
0.22
0.21
0.2
0.19
0.18
pull
Entries 84
Mean 350.9
Std Dev 0
100
50
0
−50
−100

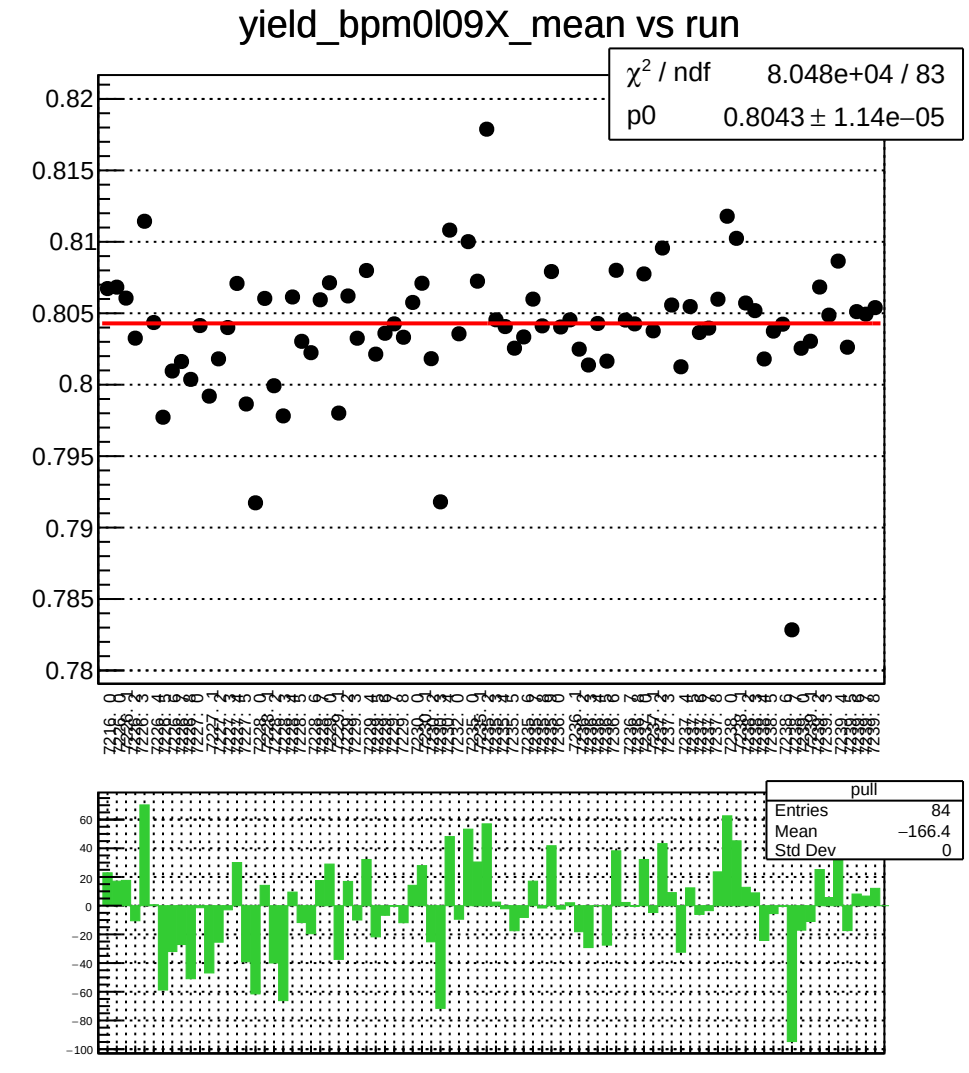

pull1D
Entries 84
Mean −1.046
Std Dev 4.692
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

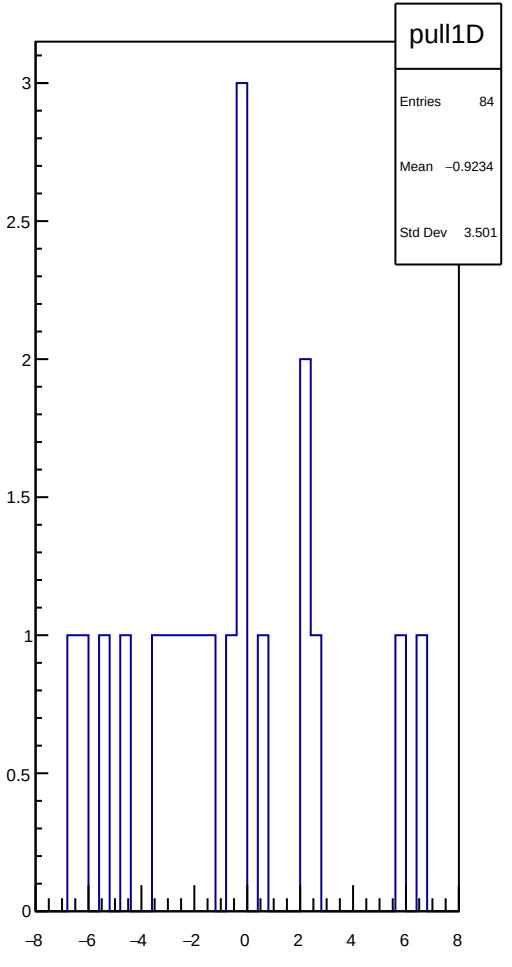

yield_bpm0l08X_rms vs run
χ² / ndf 6.301e+04 / 83
p0 0.01036 ± 8.283e–06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

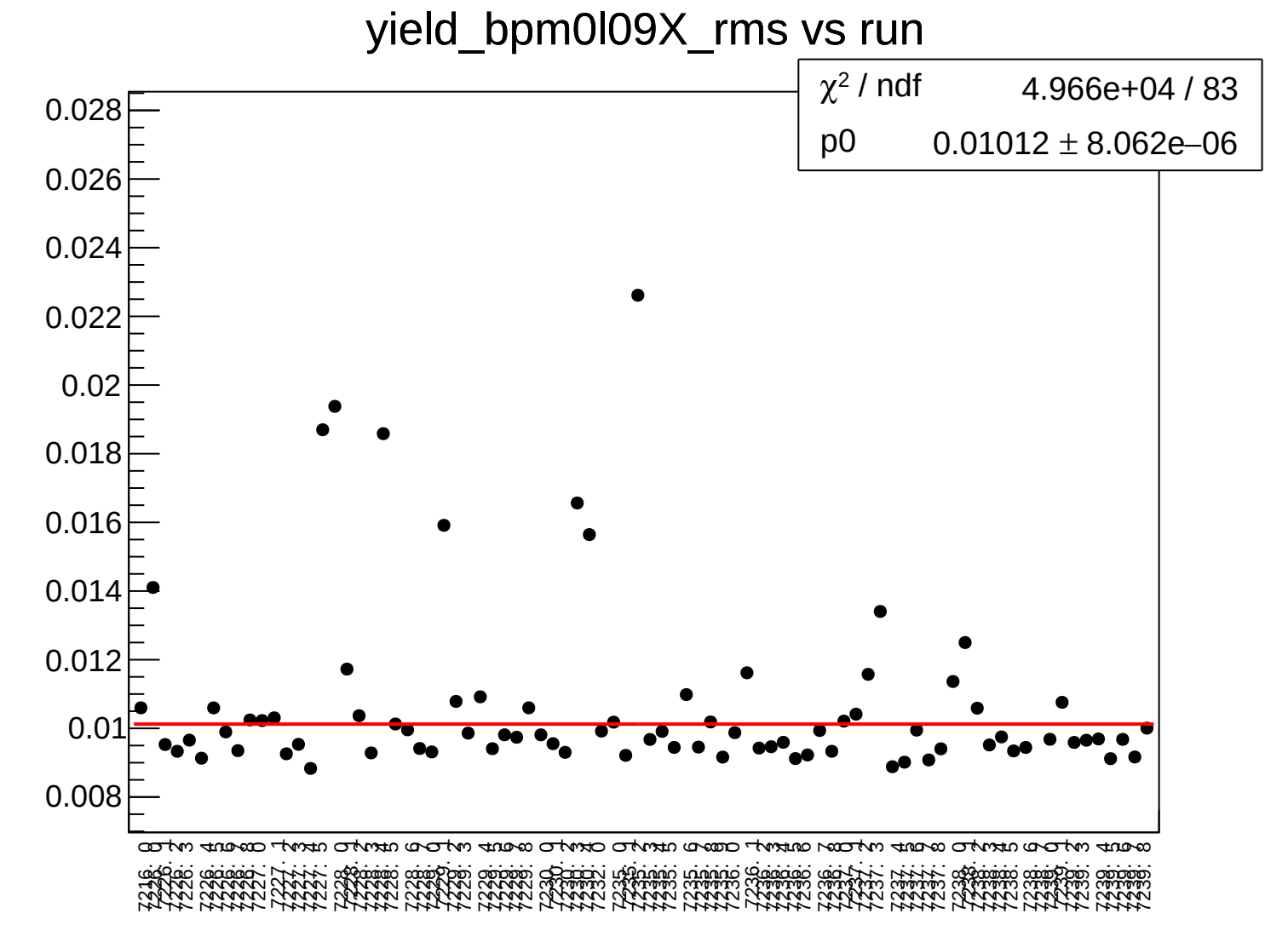

yield_bpm0l08Y_mean vs run
χ² / ndf 1.34e+06 / 83
p0 −0.1372 ± 2.96e−06
−0.105
−0.11
−0.115
−0.12
−0.125
−0.13
−0.135
−0.14
−0.145
pull
Entries 84
Mean 972.8
Std Dev 0
200
100
0
−100
−200
−300

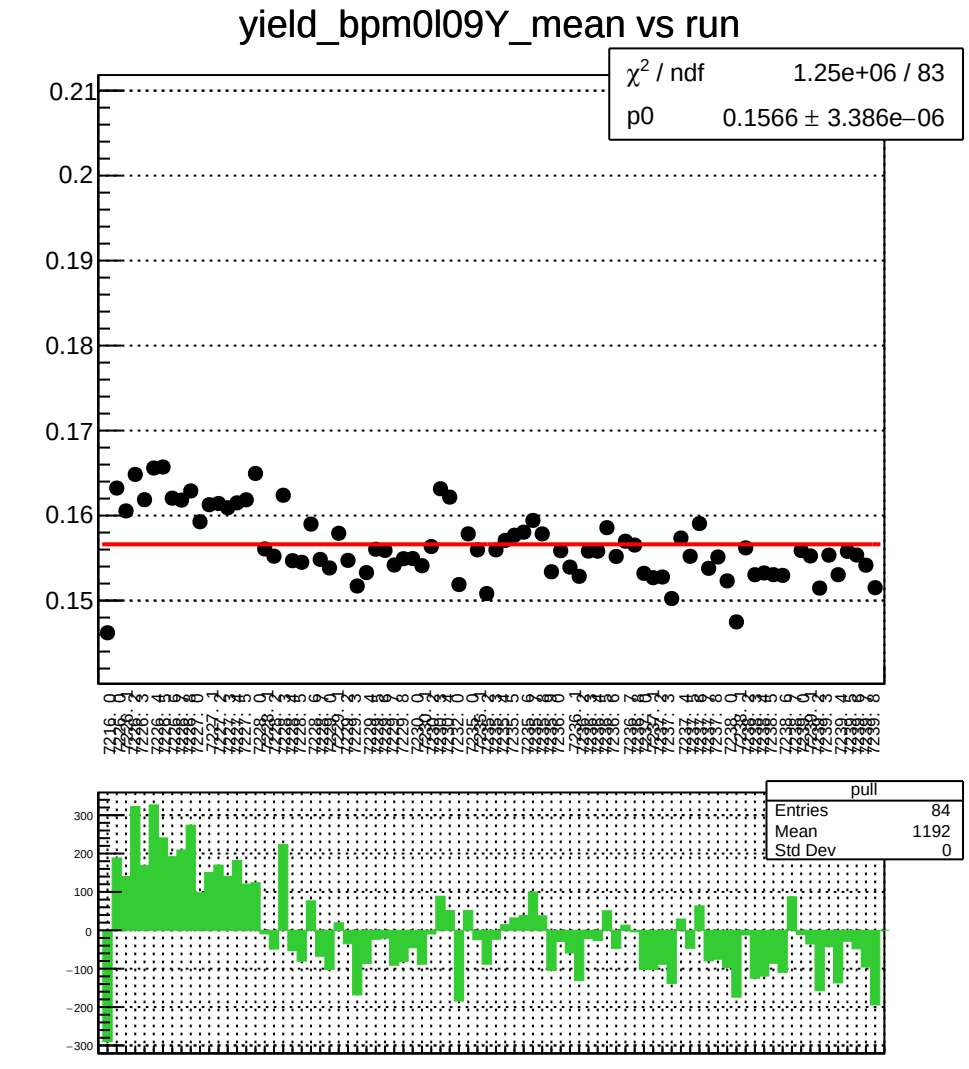

pull1D
Entries 84
Mean −2.941
Std Dev 3.361
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

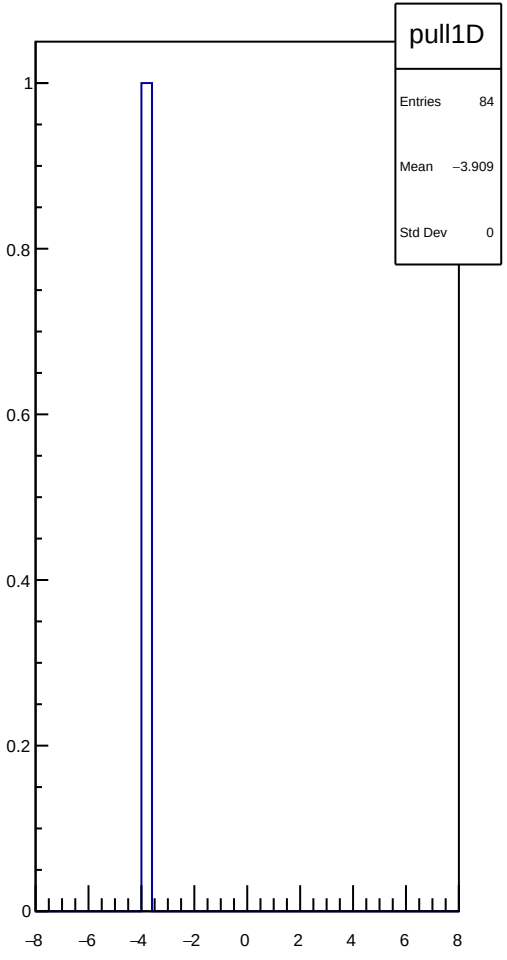

yield_bpm0l08Y_rms vs run
χ² / ndf 7.55e+04 / 83
p0 0.002607 ± 2.093e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

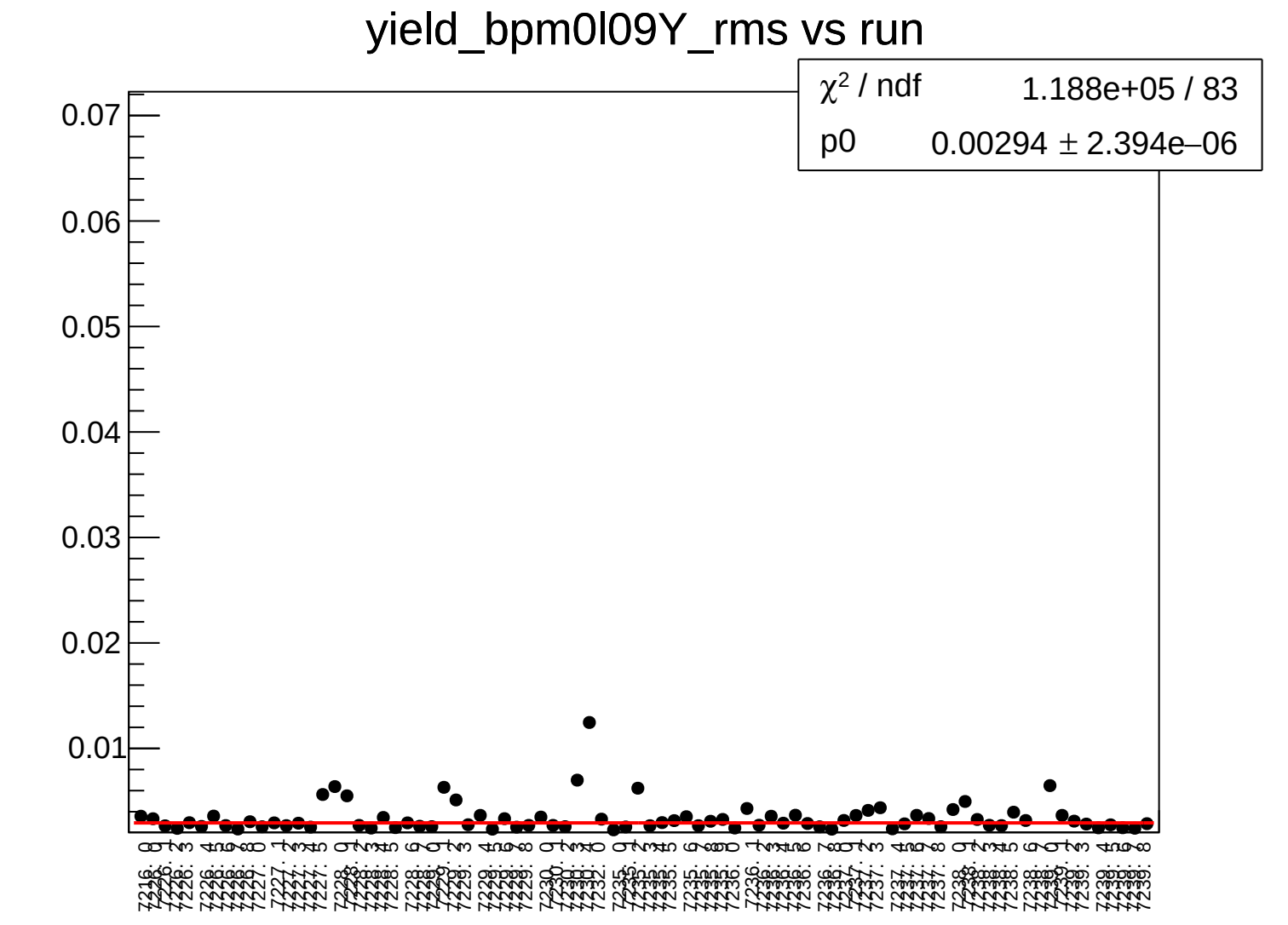

yield_bpm0l09X_mean vs run
χ² / ndf 8.048e+04 / 83
p0 0.8043 ± 1.14e−05
0.82
0.815
0.81
0.805
0.8
0.795
0.79
0.785
0.78
pull
Entries 84
Mean −166.4
Std Dev 0
60
40
20
0
−20
−40
−60
−80
−100

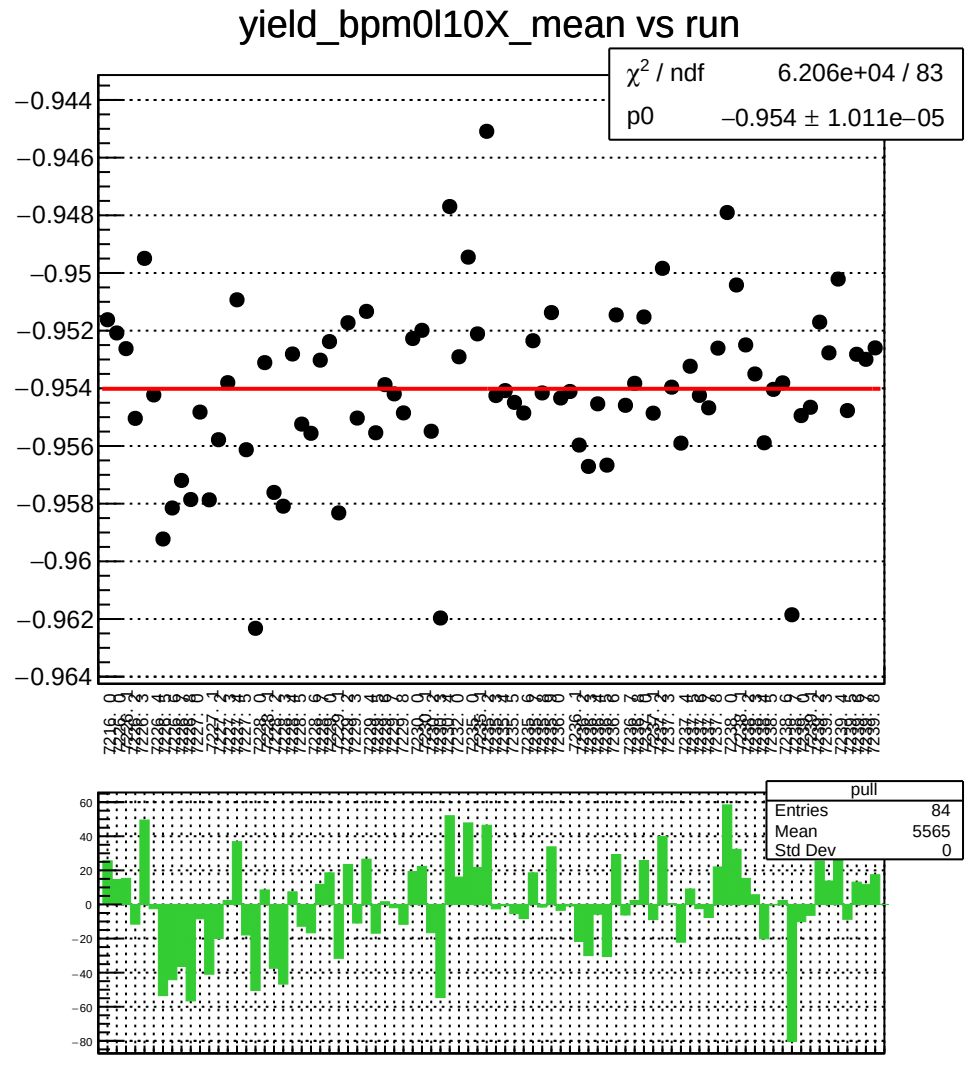

pull1D
Entries 84
Mean −0.9234
Std Dev 3.501
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

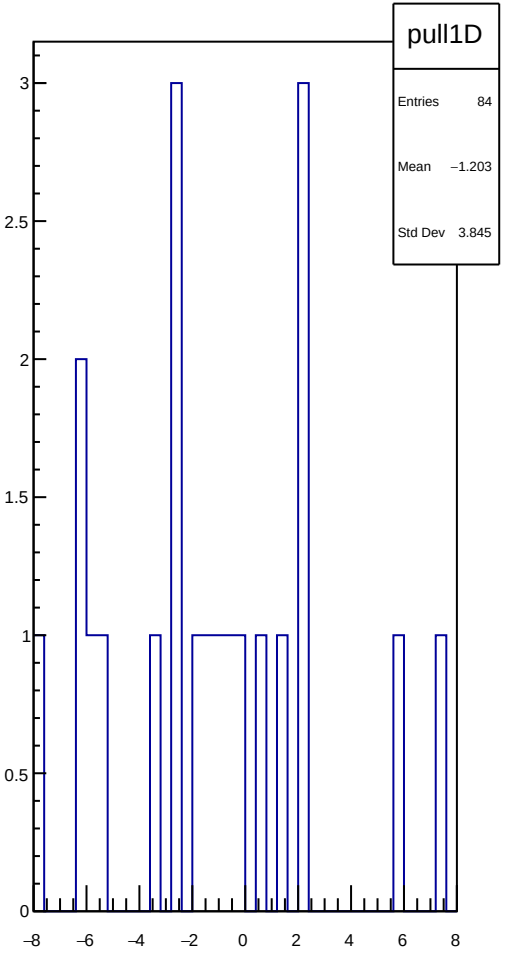

yield_bpm0l09X_rms vs run
χ² / ndf 4.966e+04 / 83
p0 0.01012 ± 8.062e–06
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

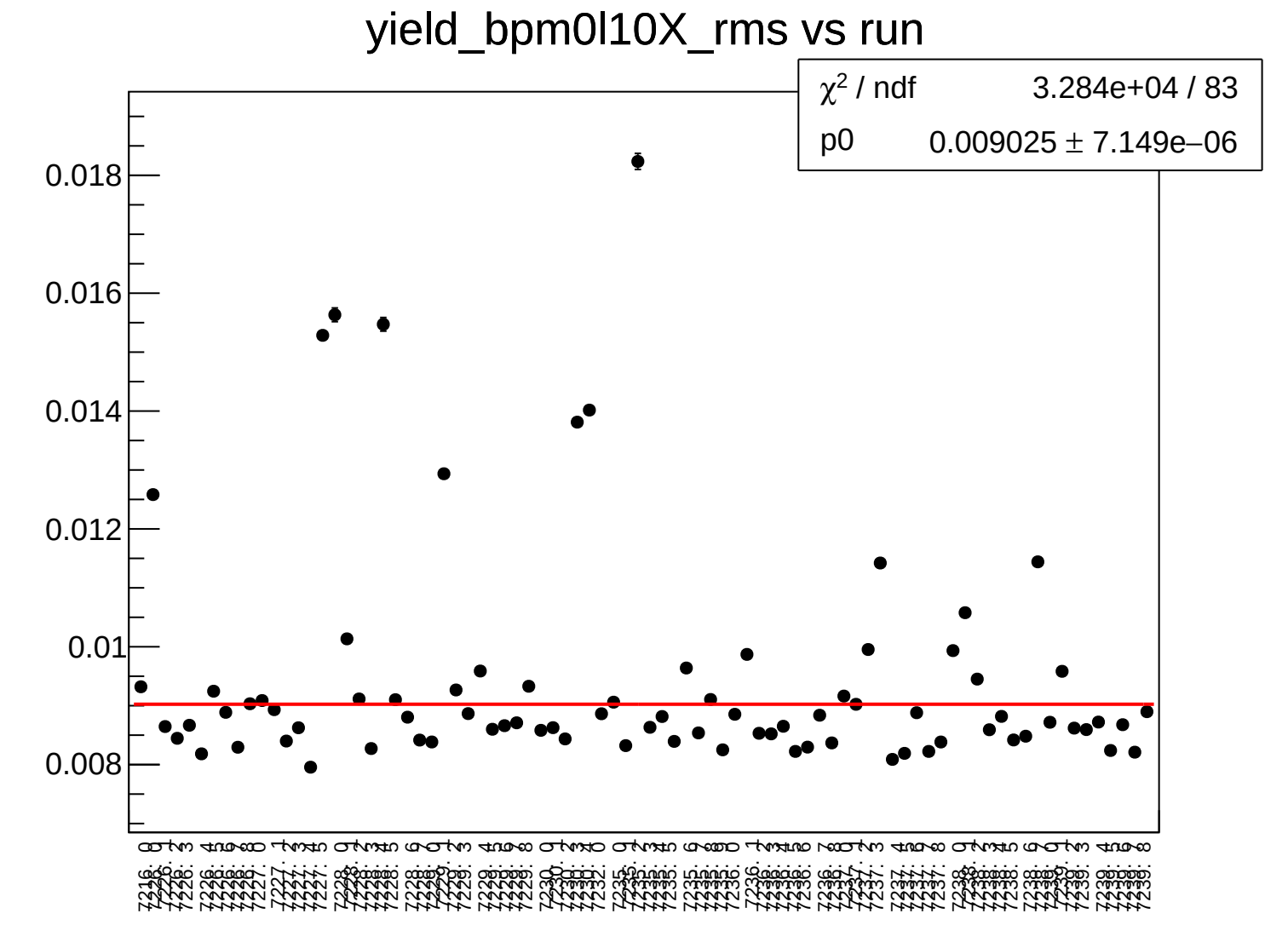

yield_bpm0l09Y_mean vs run
χ² / ndf 1.25e+06 / 83
p0 0.1566 ± 3.386e−06
0.21
0.2
0.19
0.18
0.17
0.16
0.15
pull
Entries 84
Mean 1192
Std Dev 0
300
200
100
0
−100
−200
−300

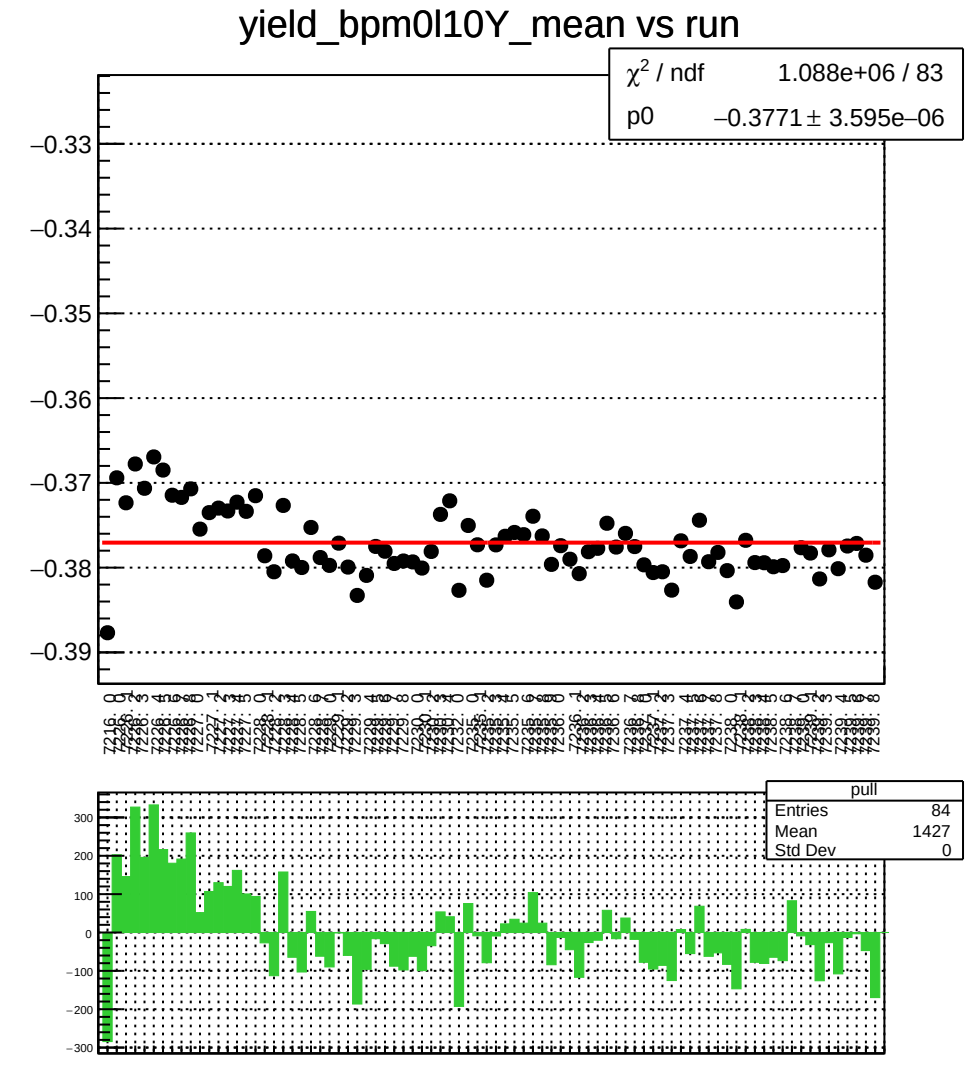

pull1D
Entries 84
Mean −3.909
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

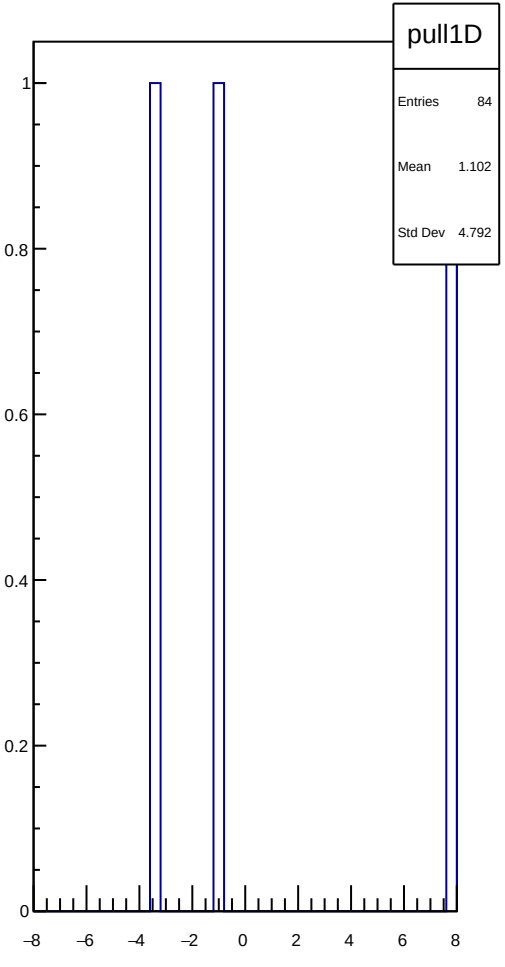

yield_bpm0l09Y_rms vs run
χ² / ndf 1.188e+05 / 83
p0 0.00294 ± 2.394e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

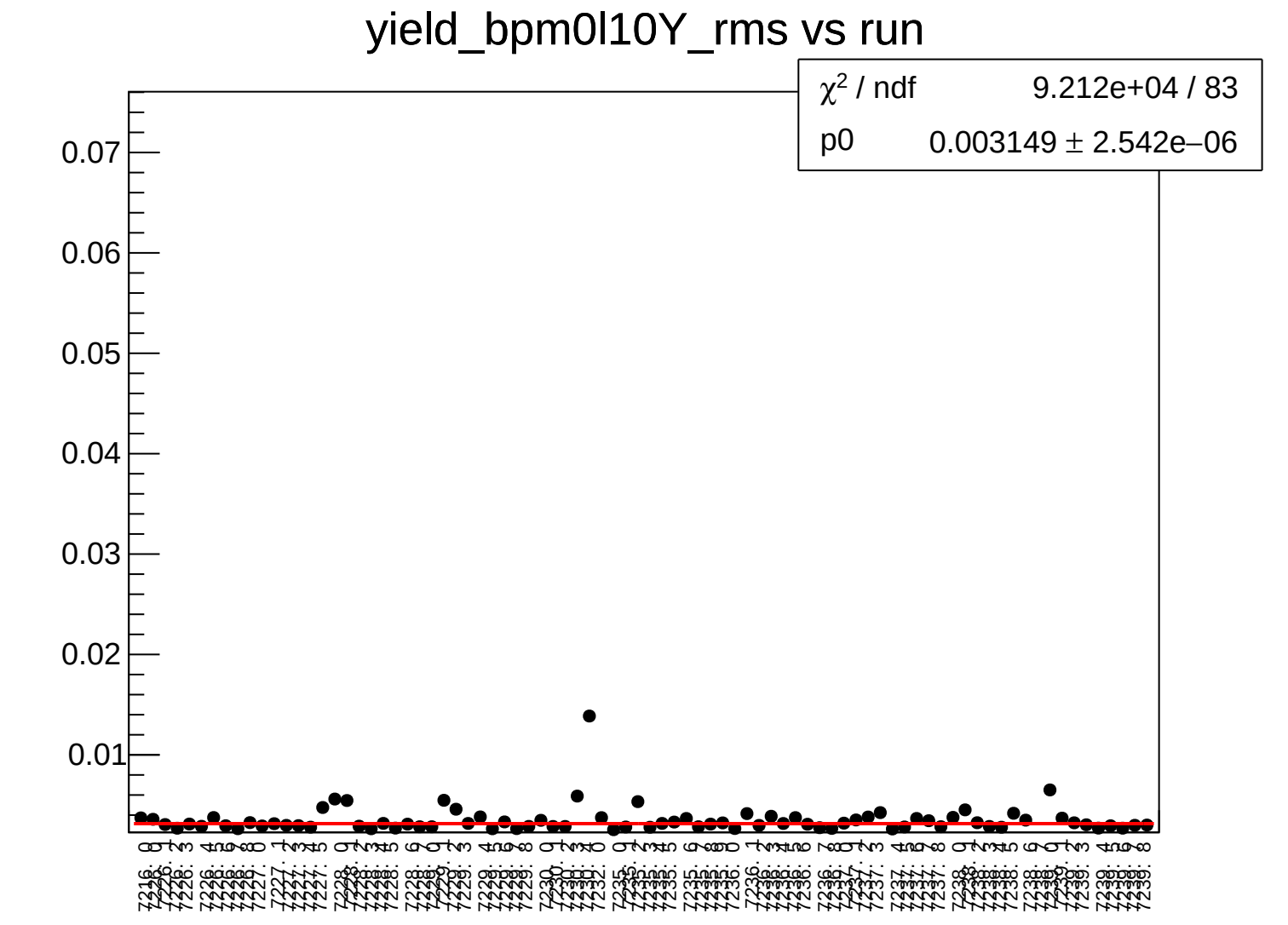

yield_bpm0l10X_mean vs run
χ² / ndf 6.206e+04 / 83
p0 −0.954 ± 1.011e−05
−0.944
−0.946
−0.948
−0.95
−0.952
−0.954
−0.956
−0.958
−0.96
−0.962
−0.964
pull
Entries 84
Mean 5565
Std Dev 0
60
40
20
0
−20
−40
−60
−80

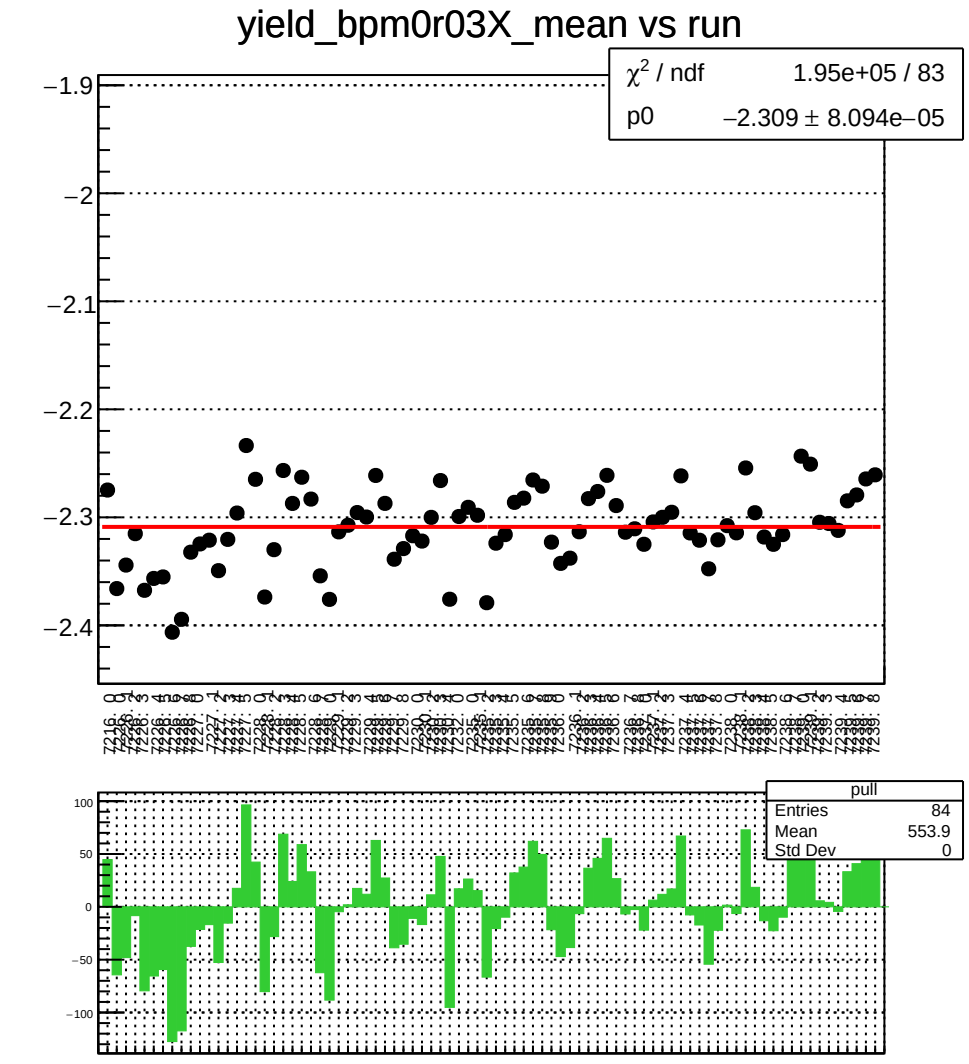

pull1D
Entries 84
Mean −1.203
Std Dev 3.845
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

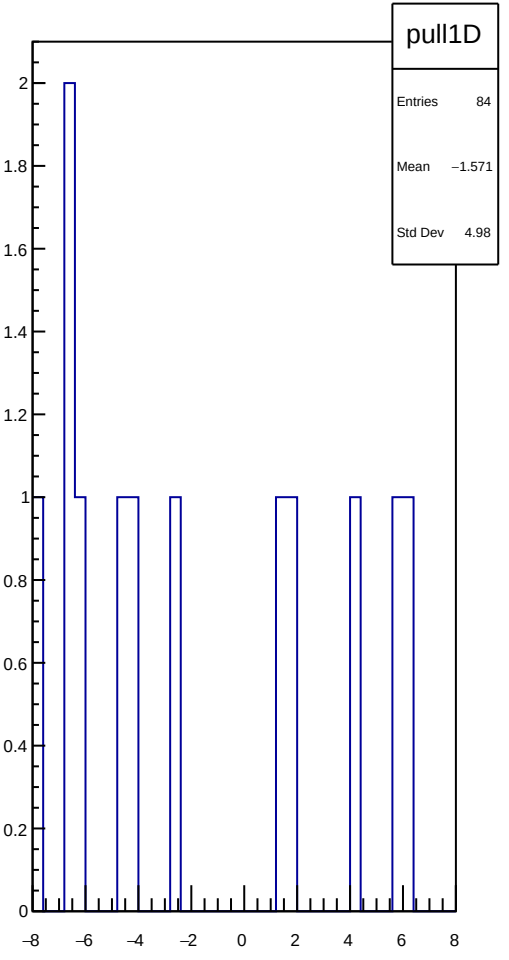

yield_bpm0l10X_rms vs run
χ² / ndf 3.284e+04 / 83
p0 0.009025 ± 7.149e−06
0.018
0.016
0.014
0.012
0.01
0.008

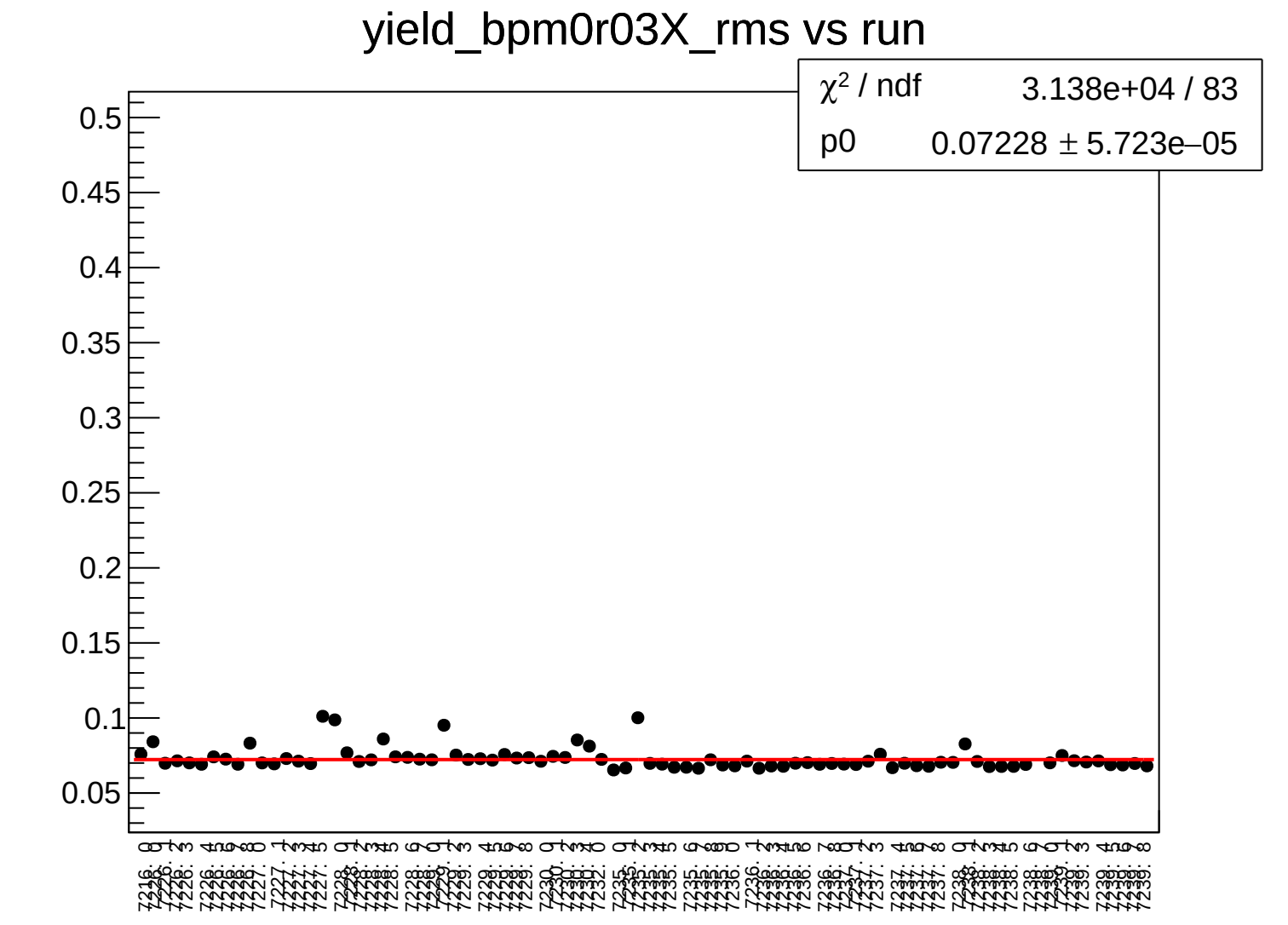

yield_bpm0l10Y_mean vs run
χ² / ndf 1.088e+06 / 83
p0 −0.3771 ± 3.595e−06
−0.33
−0.34
−0.35
−0.36
−0.37
−0.38
−0.39
pull
Entries 84
Mean 1427
Std Dev 0
300
200
100
0
−100
−200
−300

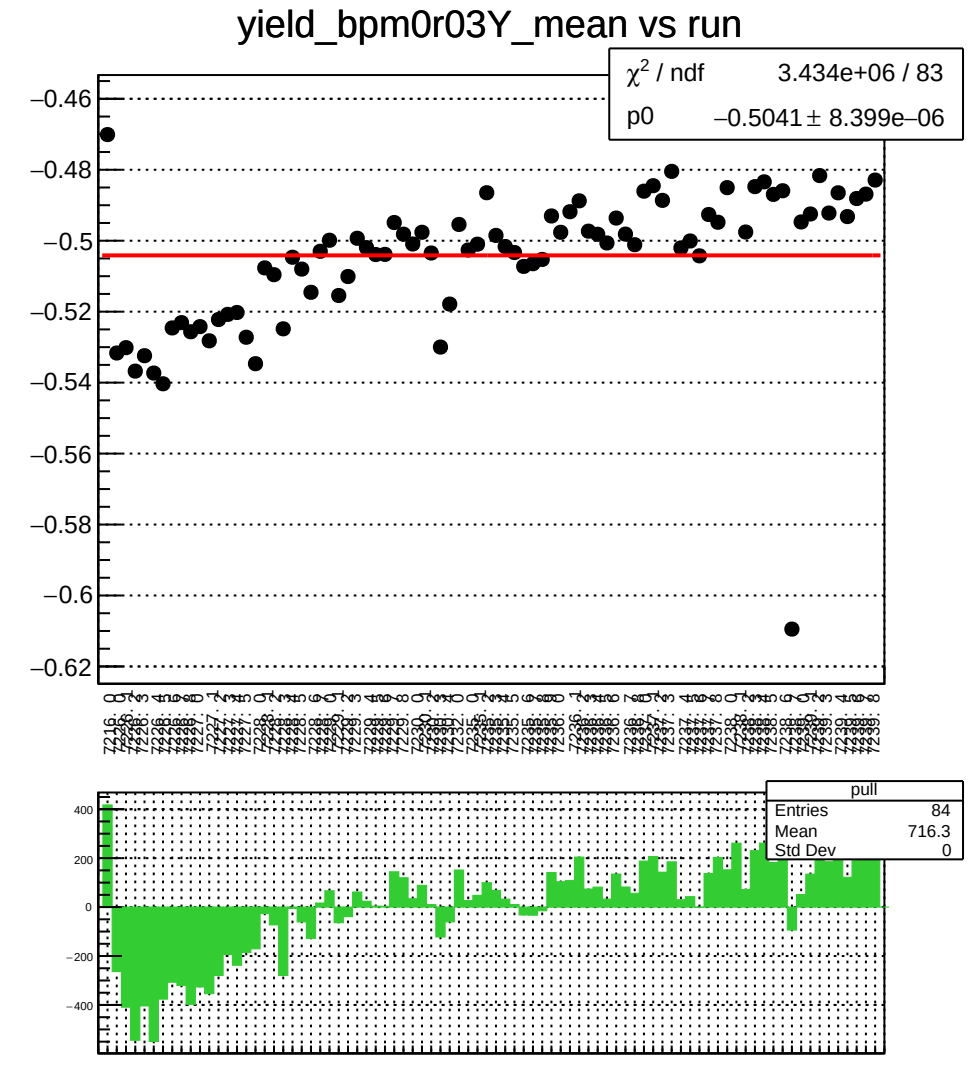

pull1D
Entries 84
Mean 1.102
Std Dev 4.792
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

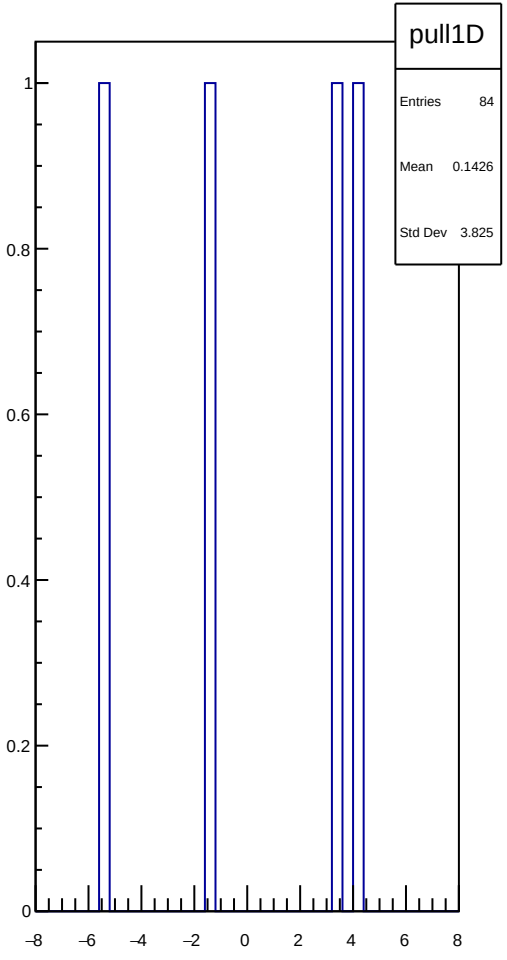

yield_bpm0l10Y_rms vs run
χ² / ndf 9.212e+04 / 83
p0 0.003149 ± 2.542e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

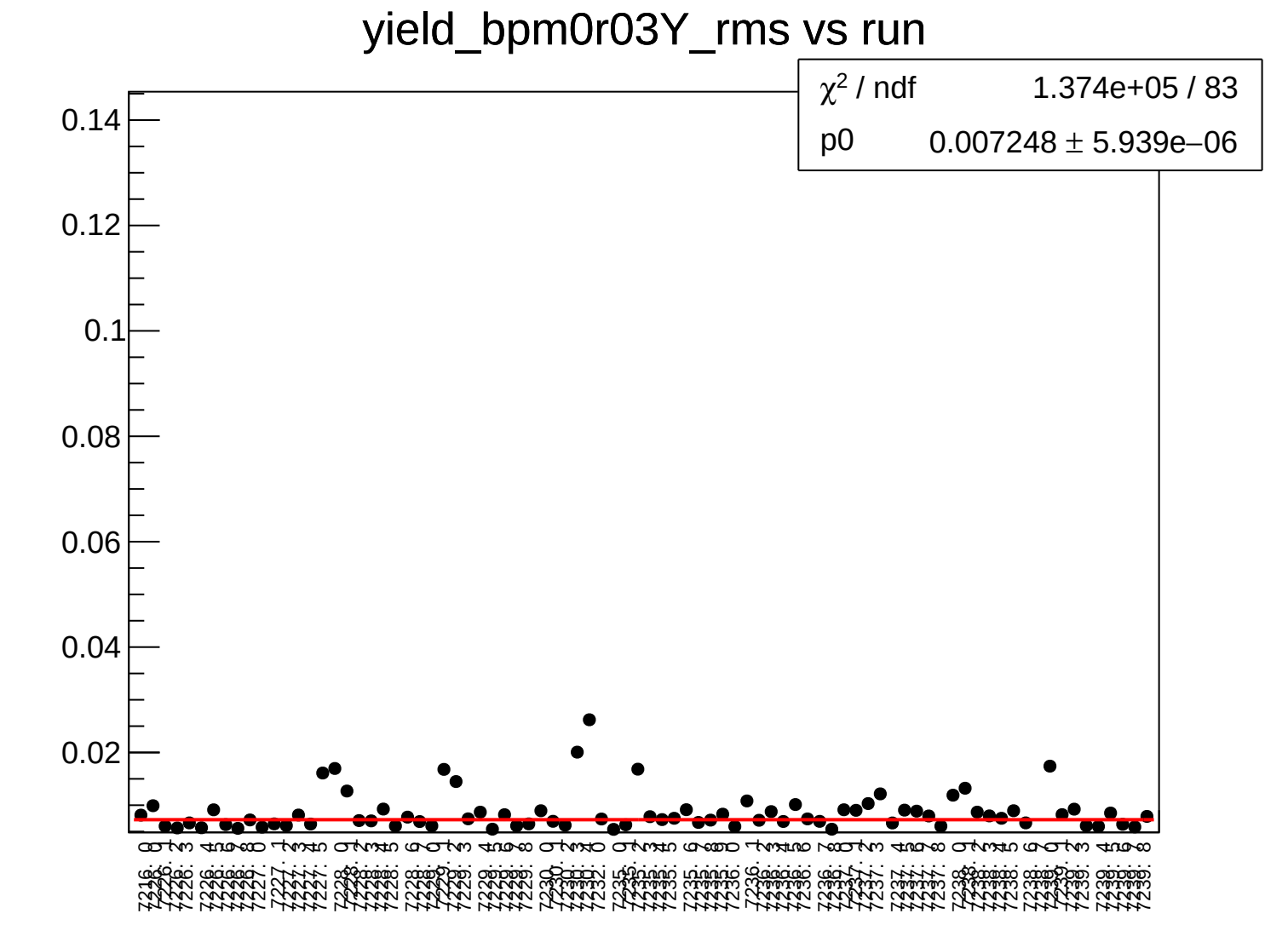

yield_bpm0r03X_mean vs run
χ² / ndf 1.95e+05 / 83
p0 −2.309 ± 8.094e−05
−1.9
−2
−2.1
−2.2
−2.3
−2.4
pull
Entries 84
Mean 553.9
Std Dev 0
100
50
0
−50
−100

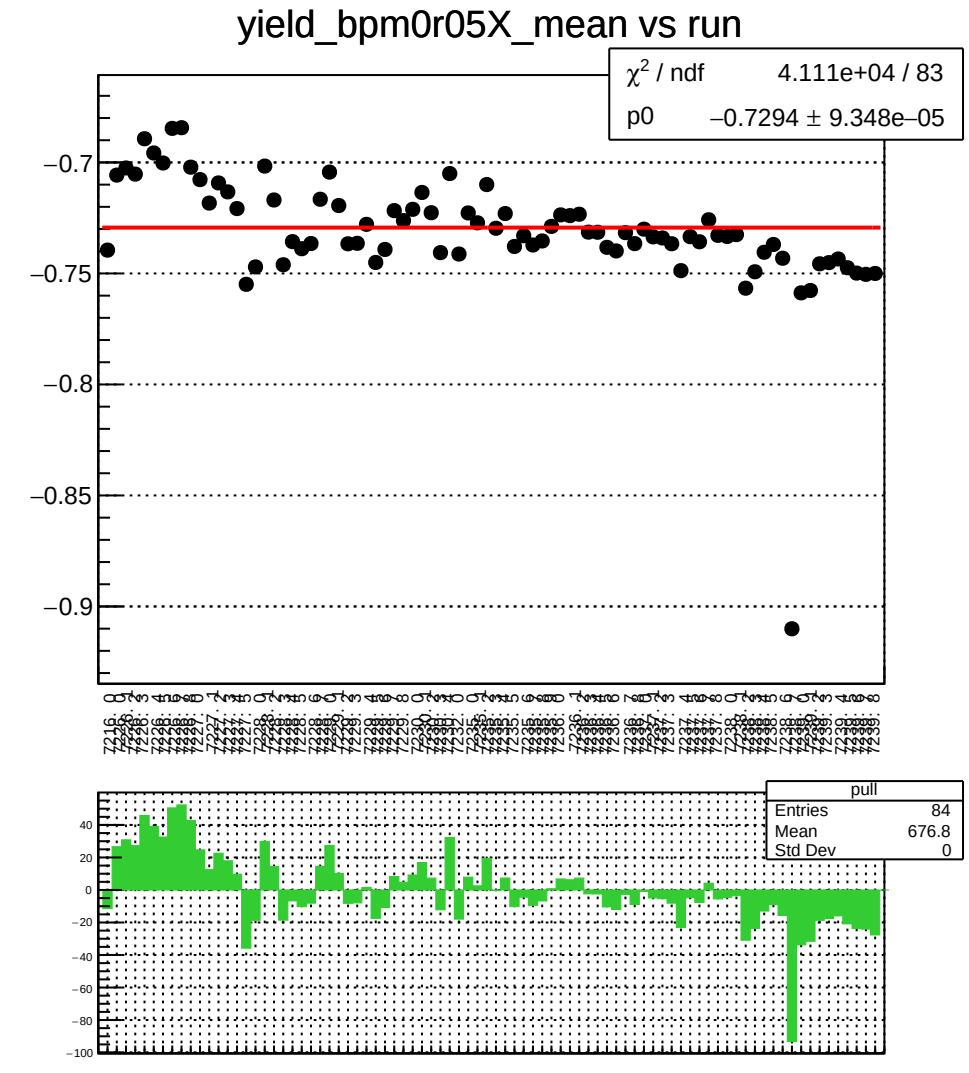

pull1D
Entries 84
Mean −1.571
Std Dev 4.98
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

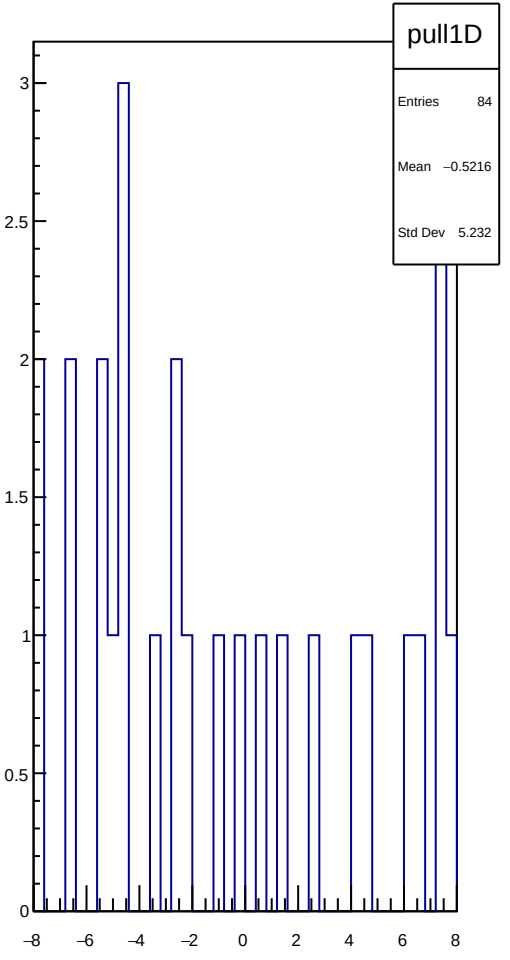

yield_bpm0r03X_rms vs run
χ^2 / ndf 3.138e+04 / 83
p0 0.07228 ± 5.723e–05
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

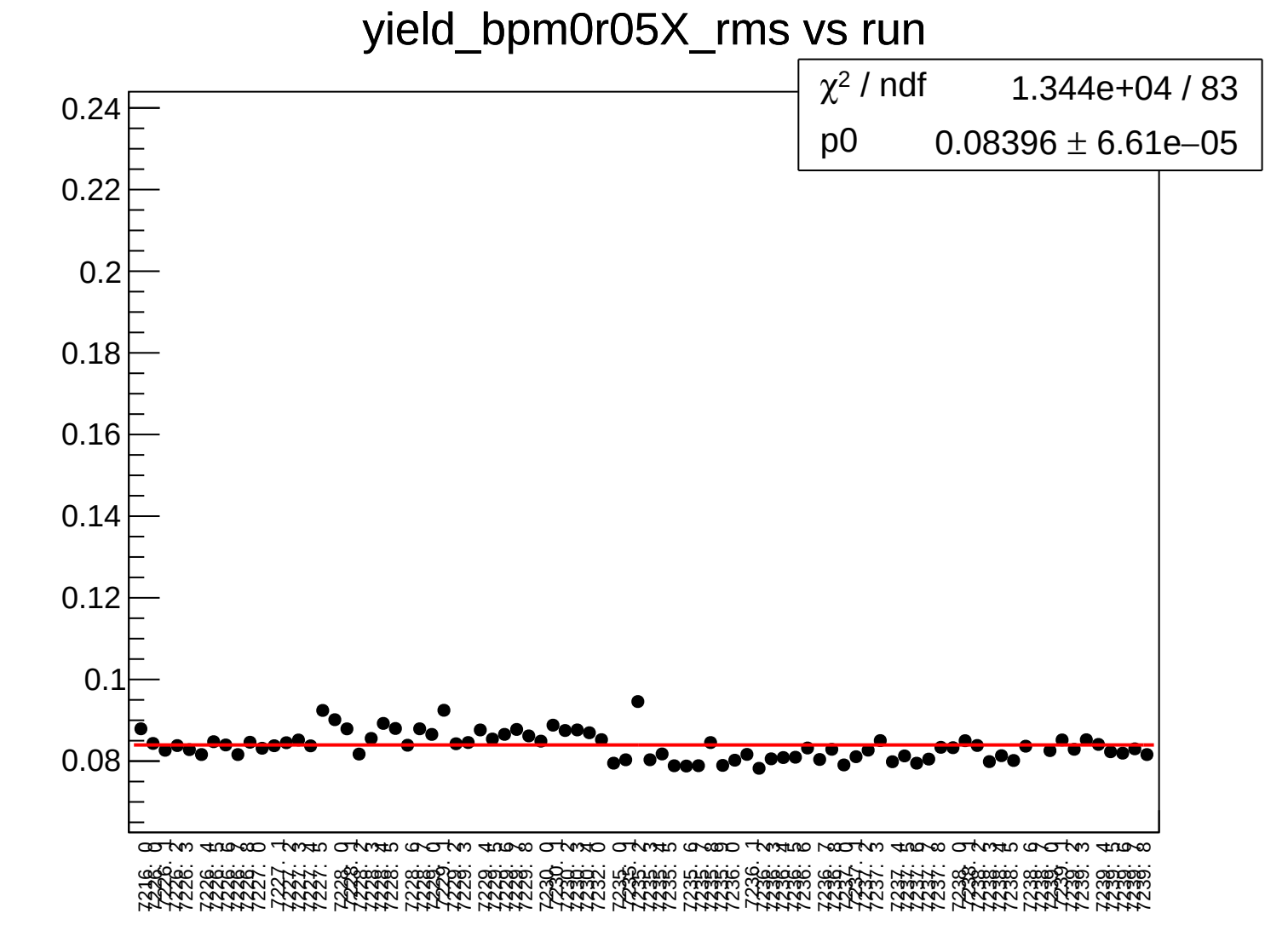

yield_bpm0r03Y_mean vs run
χ² / ndf 3.434e+06 / 83
p0 −0.5041 ± 8.399e−06
−0.46
−0.48
−0.5
−0.52
−0.54
−0.56
−0.58
−0.6
−0.62
pull
Entries 84
Mean 716.3
Std Dev 0
400
200
0
−200
−400

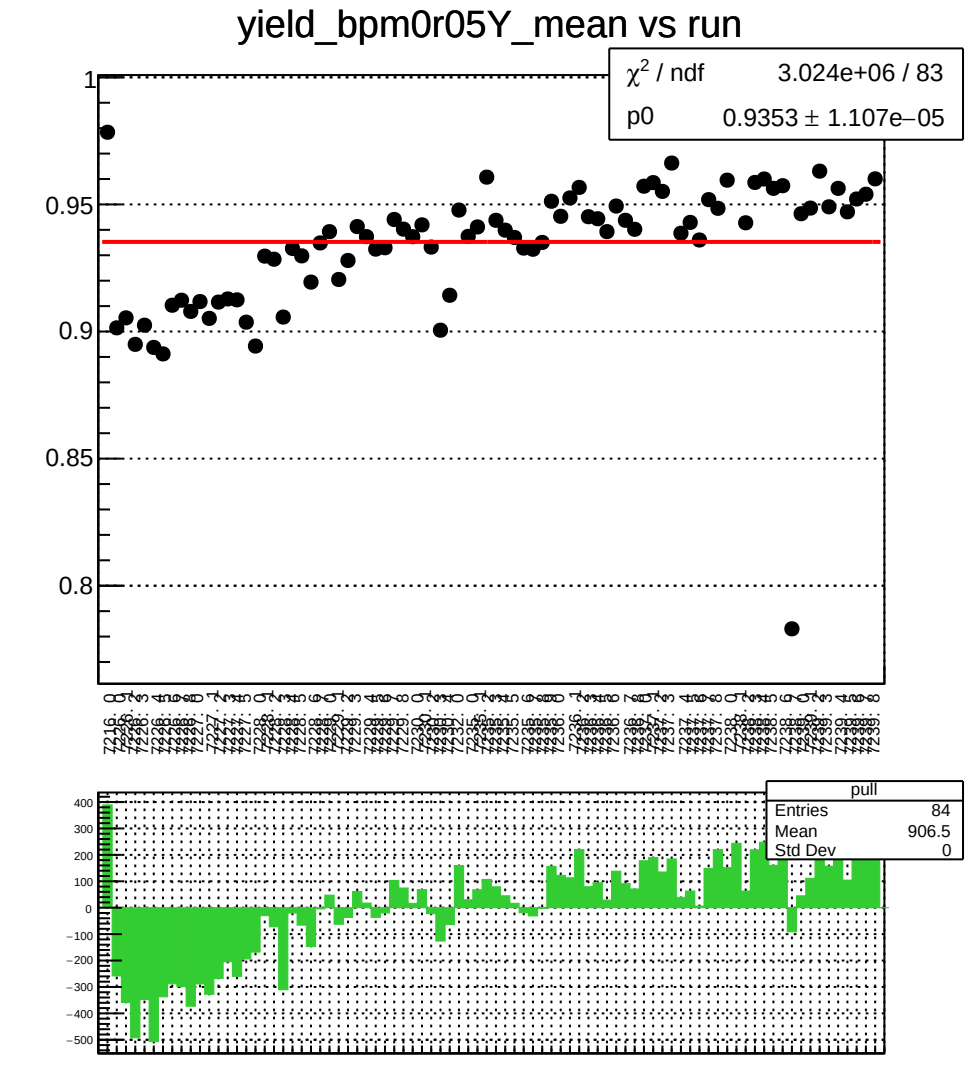

pull1D
Entries 84
Mean 0.1426
Std Dev 3.825
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

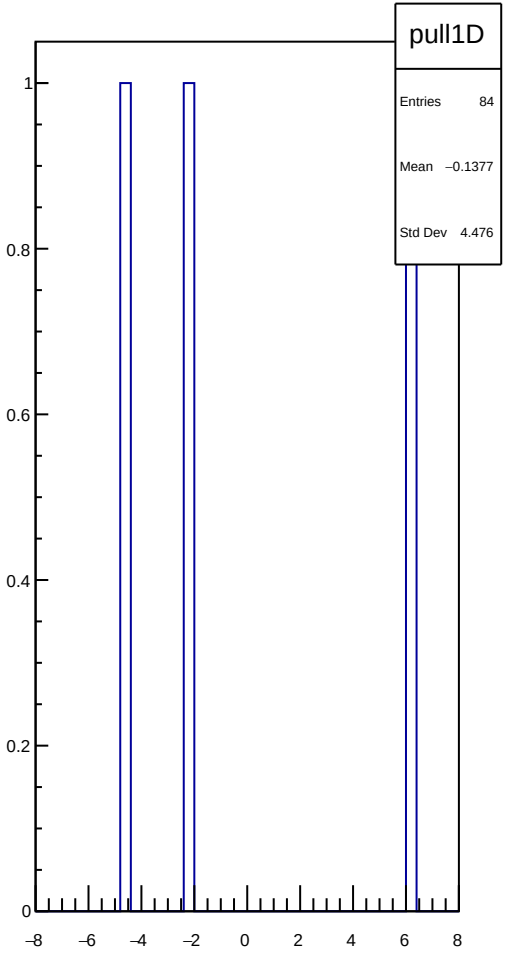

yield_bpm0r03Y_rms vs run
χ² / ndf 1.374e+05 / 83
p0 0.007248 ± 5.939e−06
0.14
0.12
0.1
0.08
0.06
0.04
0.02

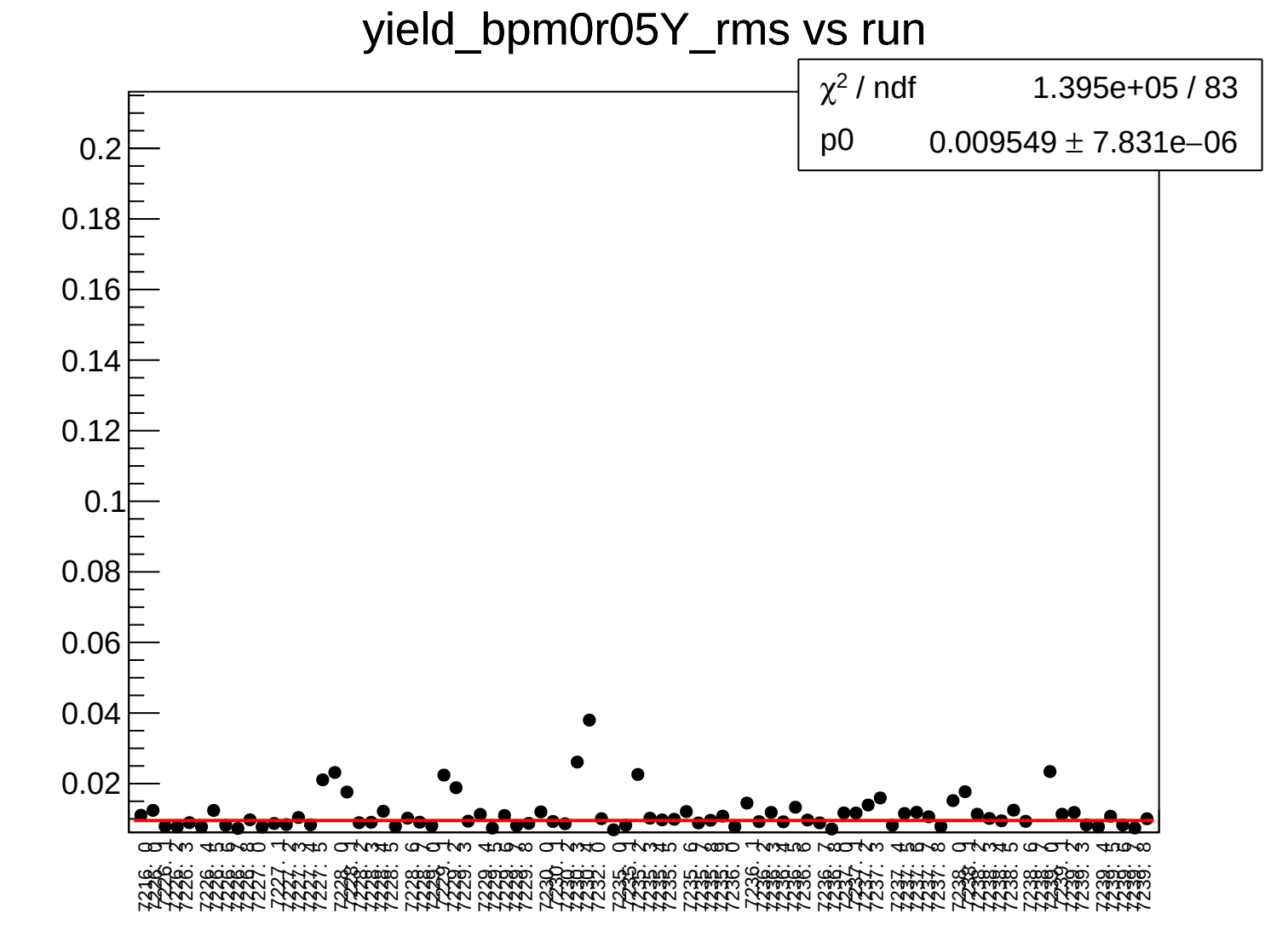

yield_bpm0r05X_mean vs run
χ² / ndf 4.111e+04 / 83
p0 −0.7294 ± 9.348e−05
−0.7
−0.75
−0.8
−0.85
−0.9
pull
Entries 84
Mean 676.8
Std Dev 0
40
20
0
−20
−40
−60
−80
−100

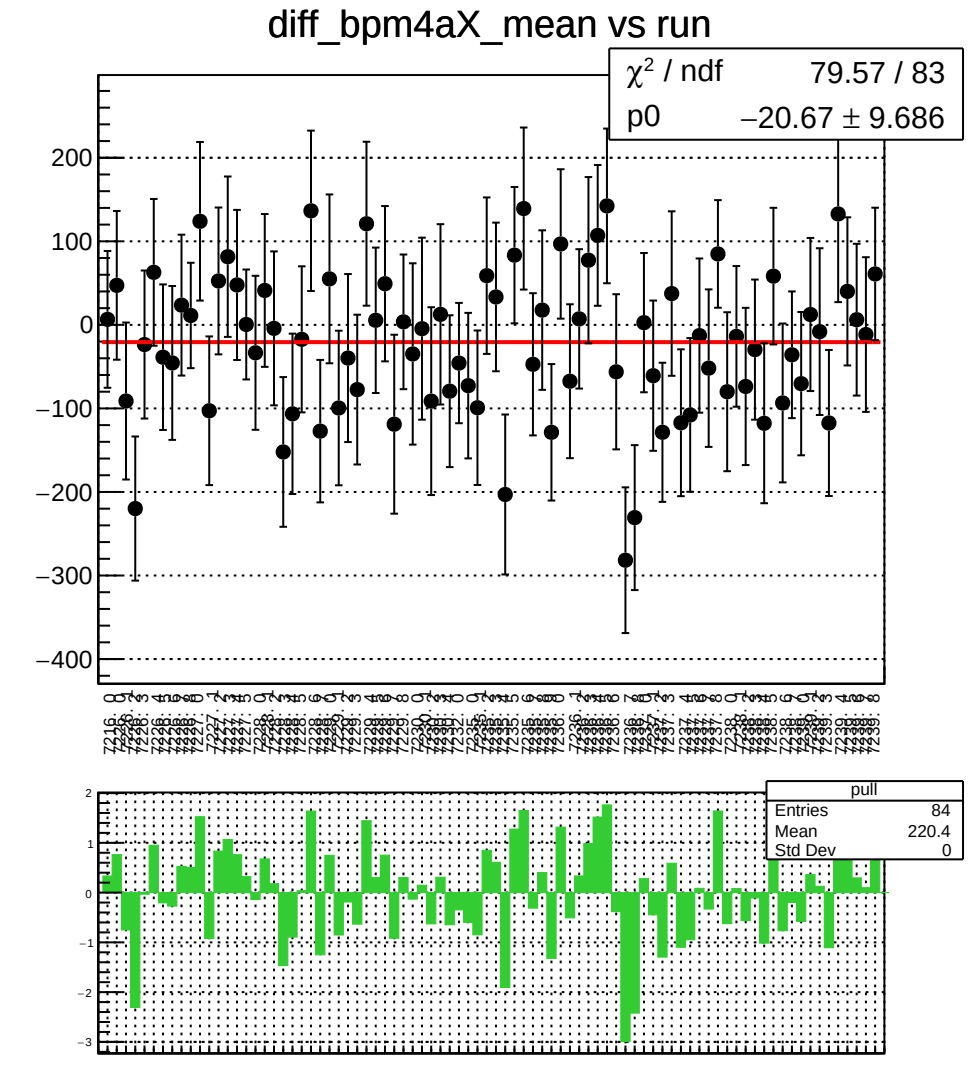

pull1D
Entries 84
Mean −0.5216
Std Dev 5.232
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

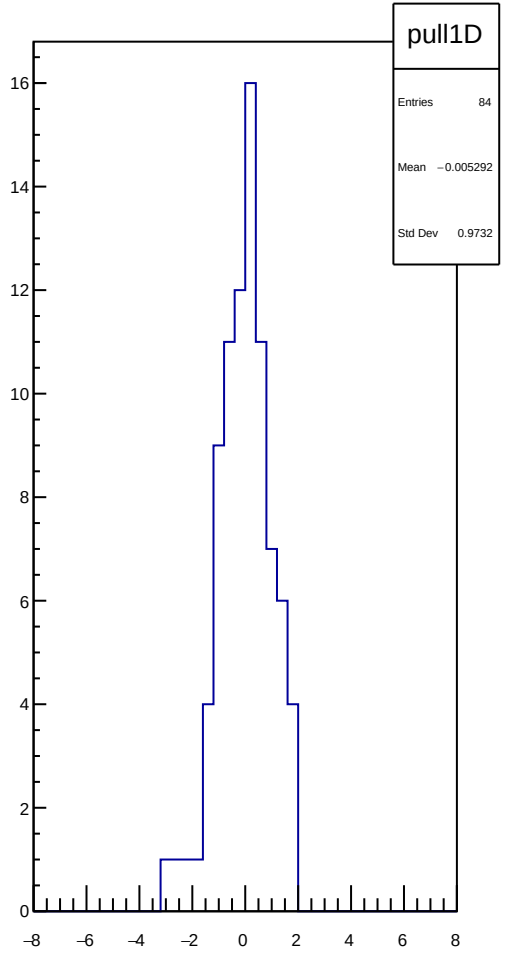

yield_bpm0r05X_rms vs run
χ² / ndf 1.344e+04 / 83
p0 0.08396 ± 6.61e−05
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08

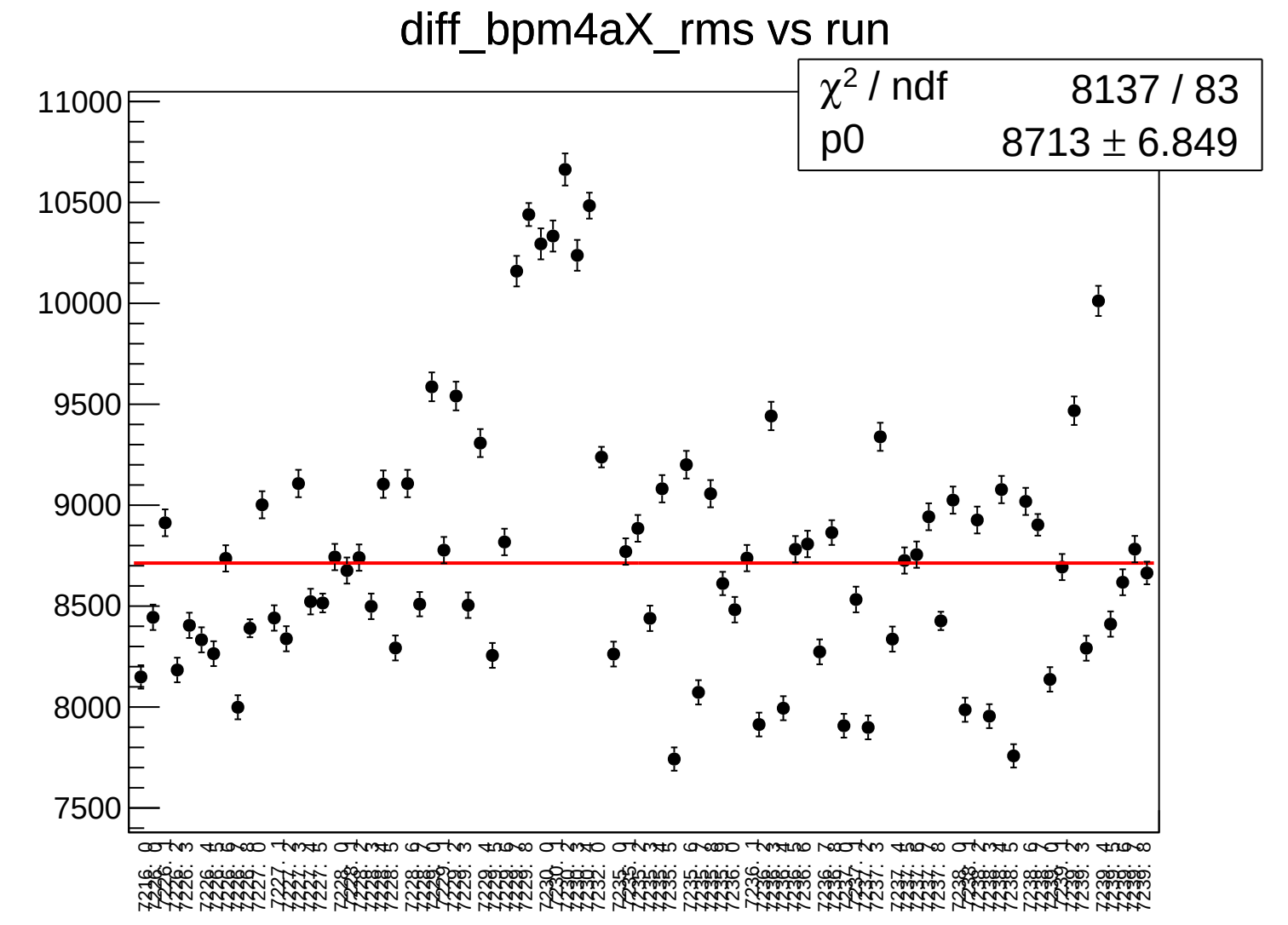

yield_bpm0r05Y_mean vs run
χ² / ndf 3.024e+06 / 83
p0 0.9353 ± 1.107e−05
pull
Entries 84
Mean 906.5
Std Dev 0

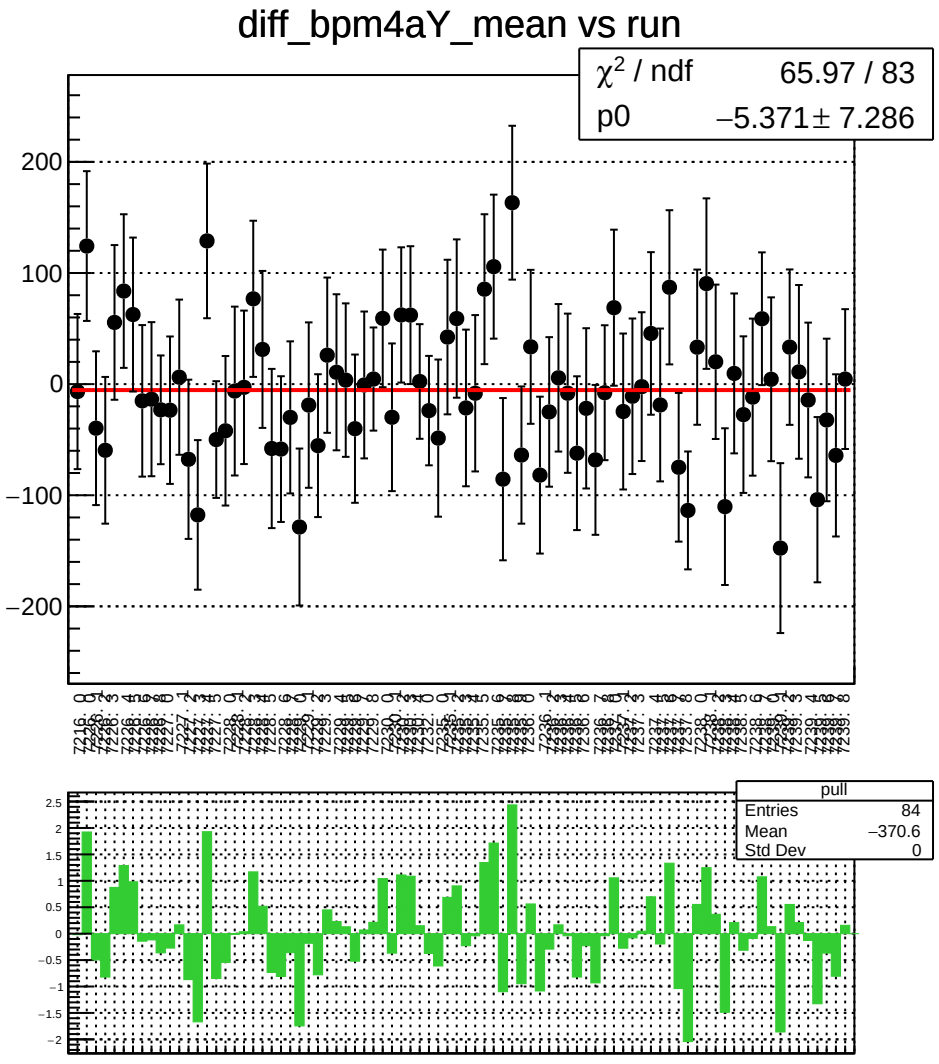

pull1D
Entries 84
Mean −0.1377
Std Dev 4.476

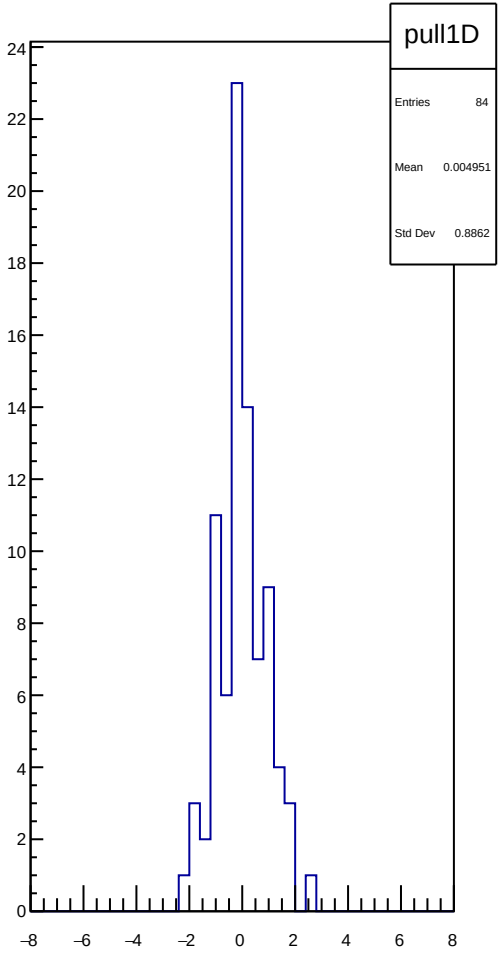

yield_bpm0r05Y_rms vs run
χ² / ndf 1.395e+05 / 83
p0 0.009549 ± 7.831e−06
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

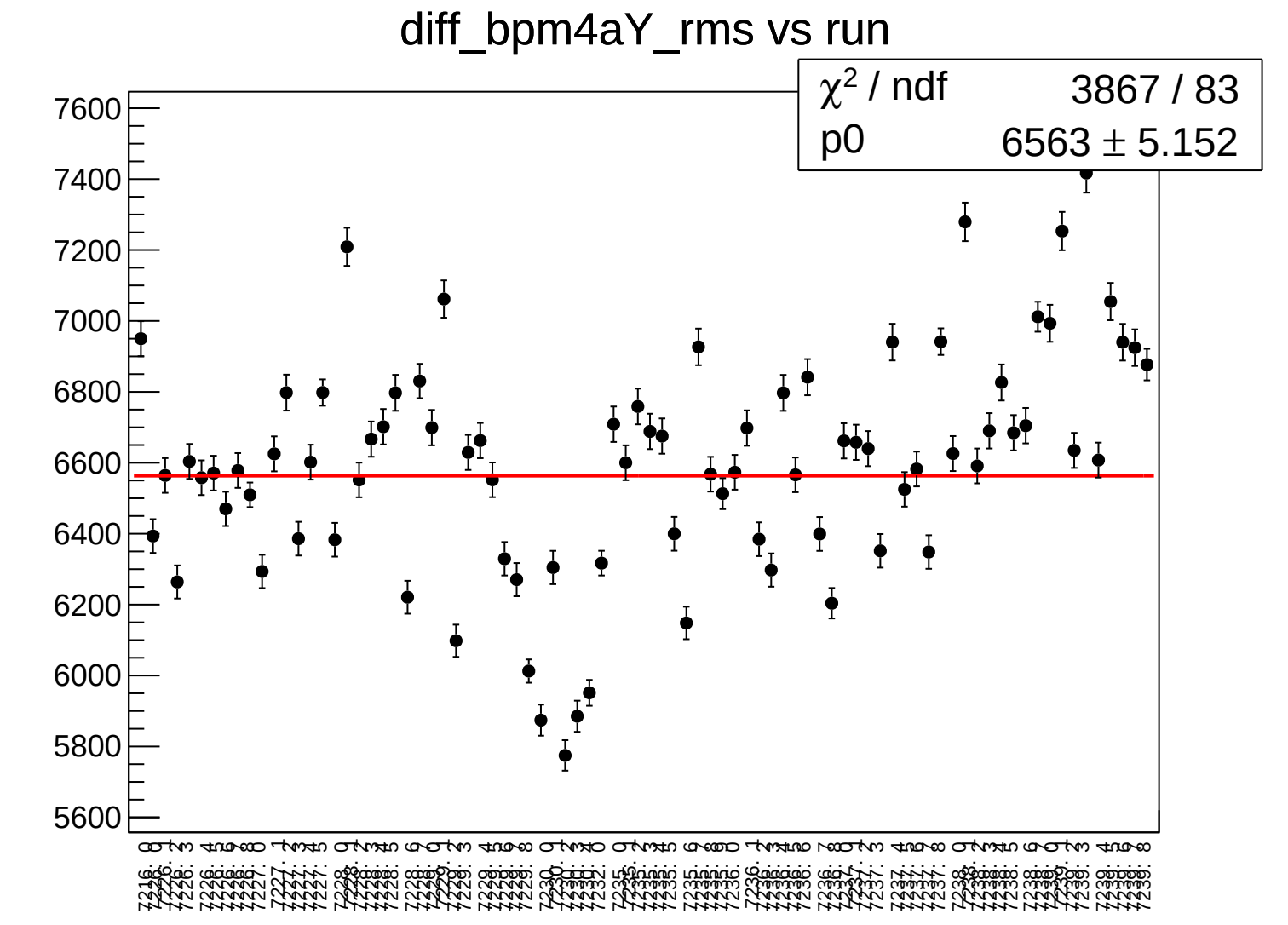

diff_bpm4aX_mean vs run
χ² / ndf 79.57 / 83
p0 −20.67 ± 9.686
pull
Entries 84
Mean 220.4
Std Dev 0

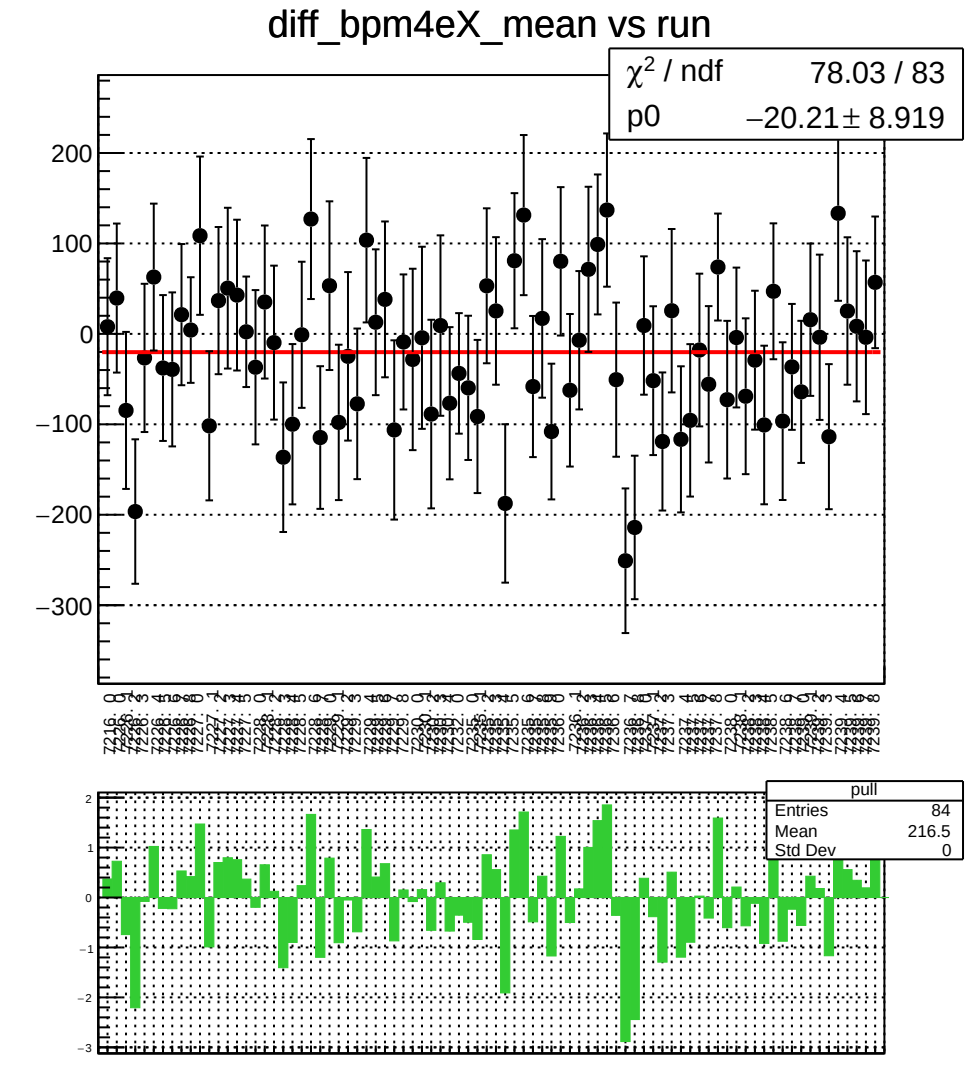

pull1D
Entries 84
Mean −0.005292
Std Dev 0.9732

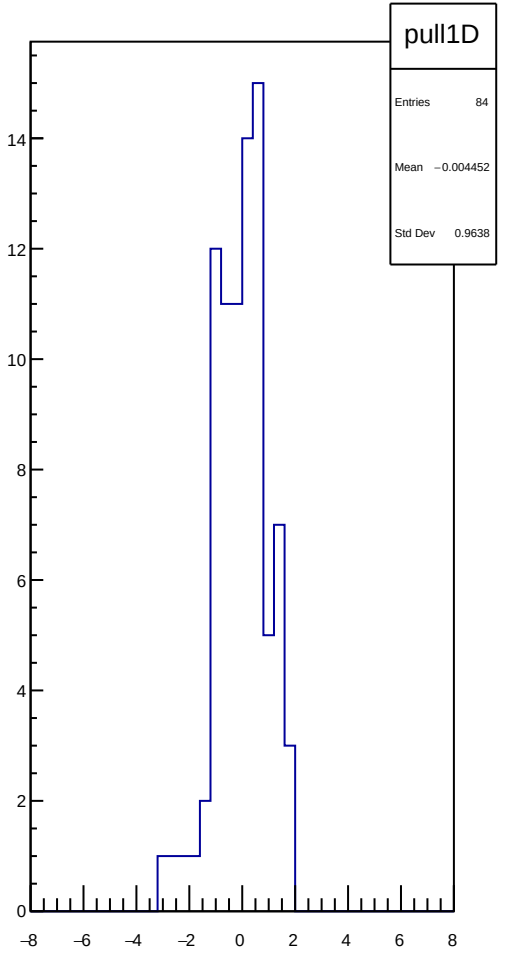

diff_bpm4aX_rms vs run
χ^2 / ndf 8137 / 83
p0 8713 ± 6.849
11000
10500
10000
9500
9000
8500
8000
7500

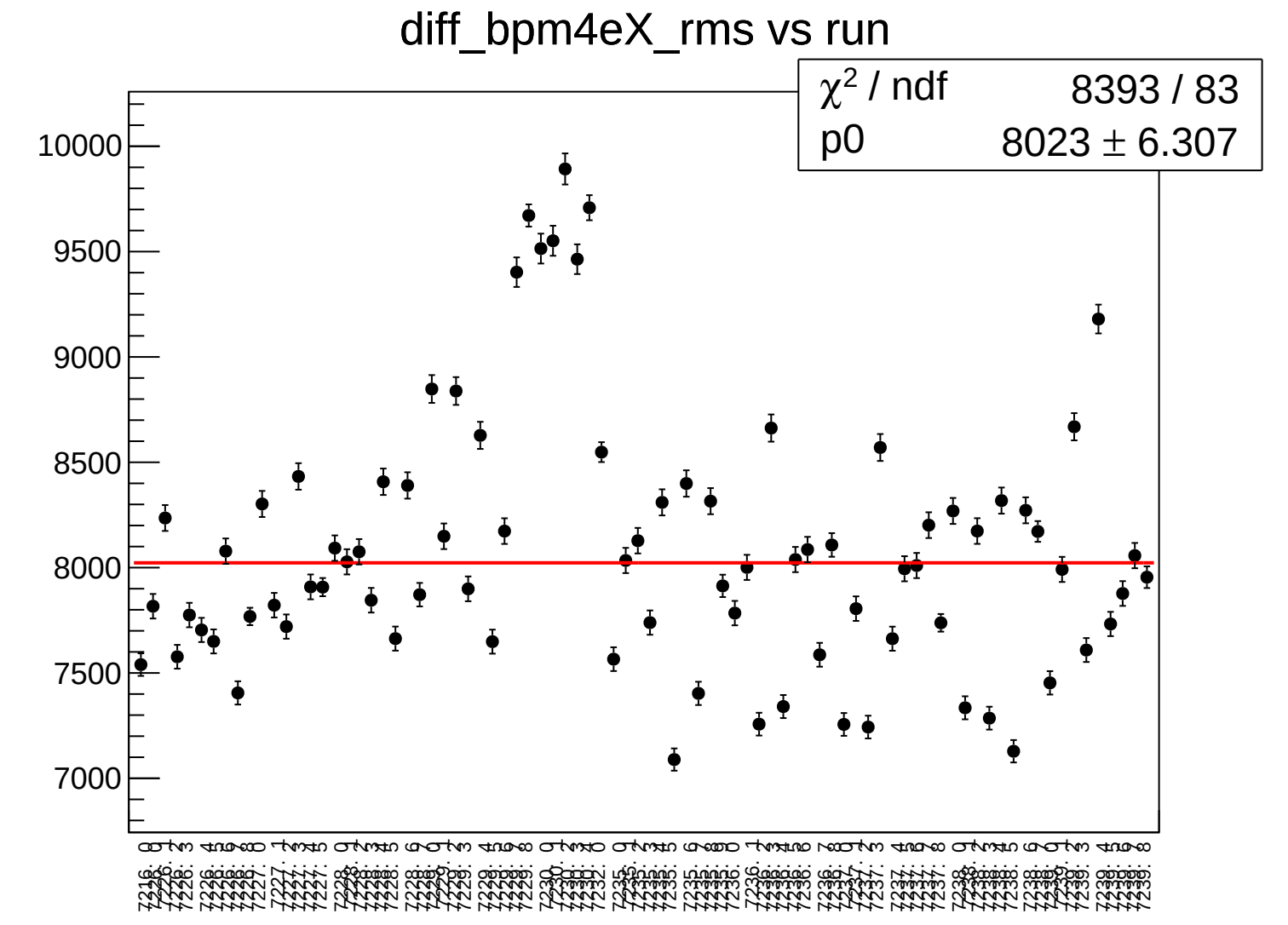

diff_bpm4aY_mean vs run
χ² / ndf 65.97 / 83
p0 −5.371 ± 7.286
200
100
0
−100
−200
pull
Entries 84
Mean −370.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

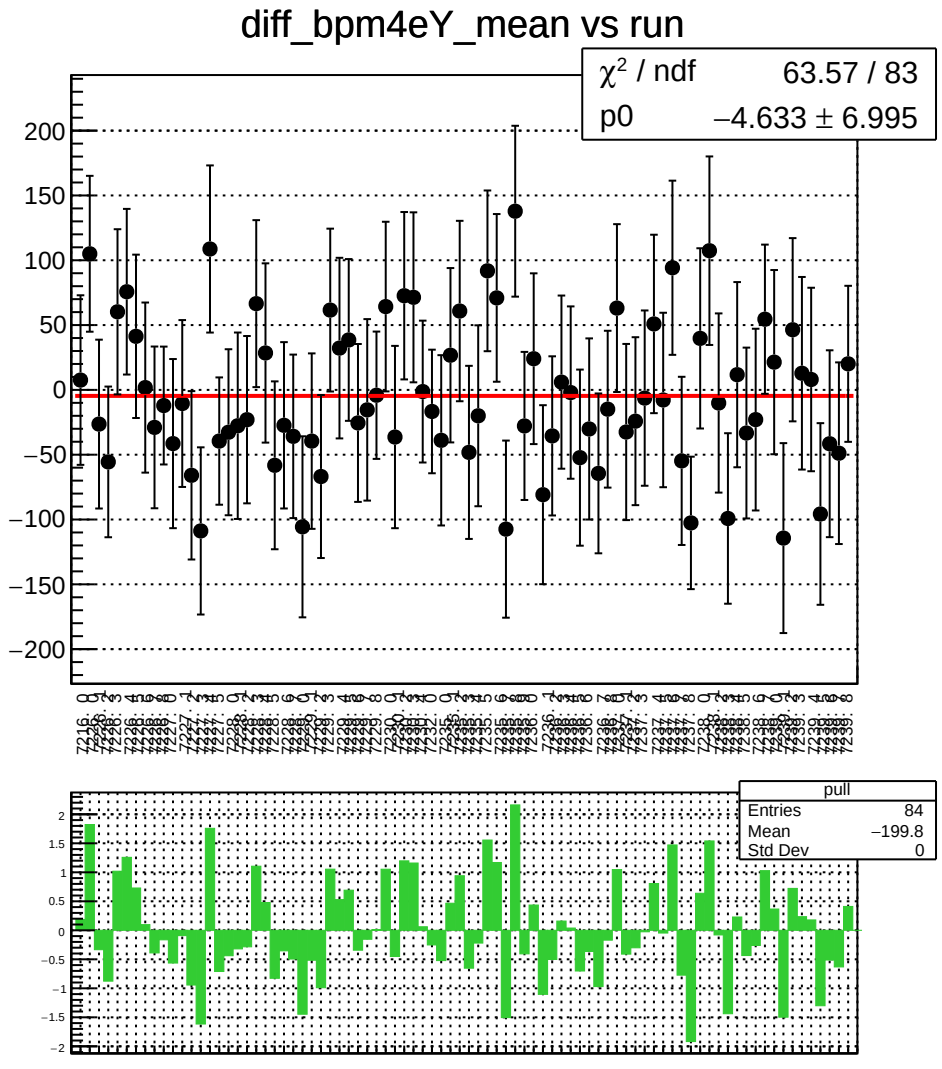

pull1D
Entries 84
Mean 0.004951
Std Dev 0.8862
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

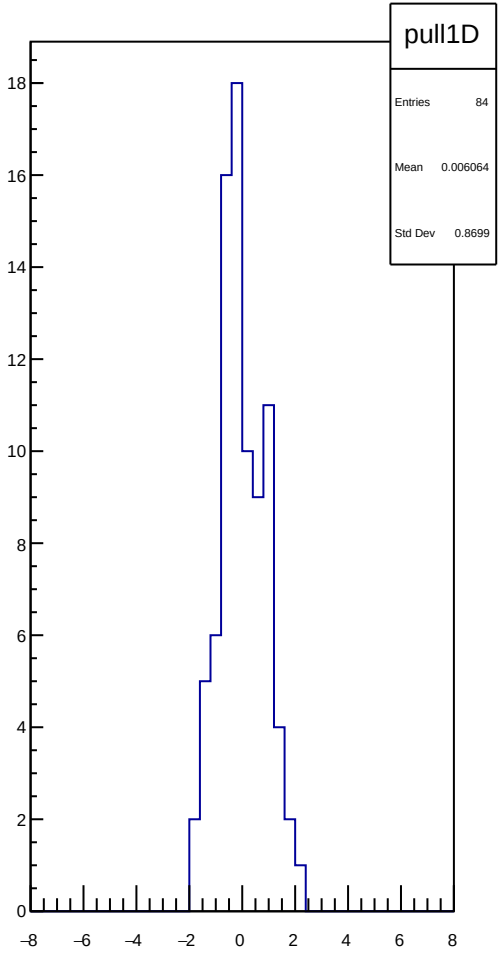

diff_bpm4aY_rms vs run
χ^2 / ndf 3867 / 83
p0 6563 ± 5.152
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800
5600

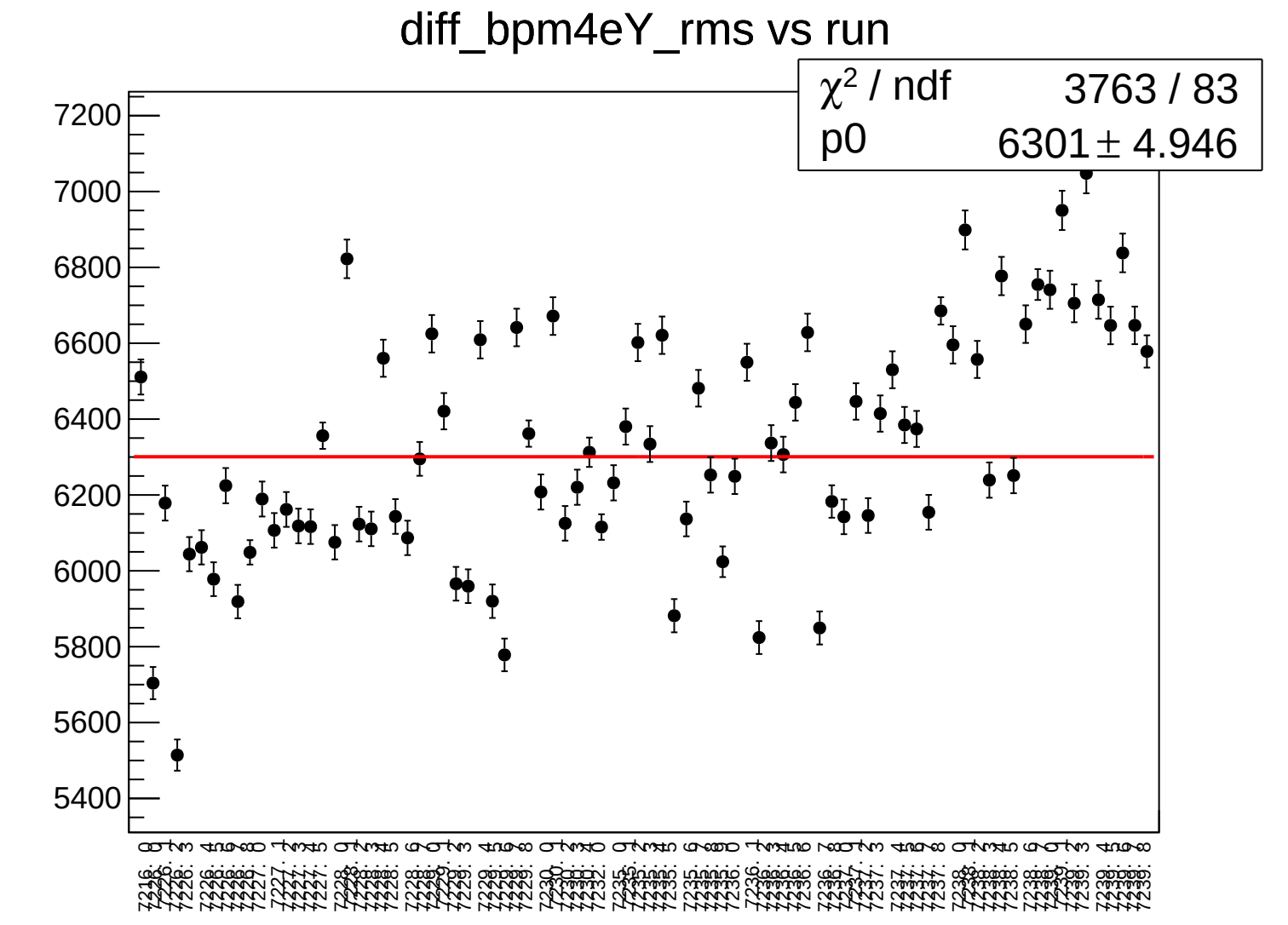

diff_bpm4eX_mean vs run
χ² / ndf 78.03 / 83
p0 −20.21± 8.919
200
100
0
−100
−200
−300
pull
Entries 84
Mean 216.5
Std Dev 0
2
1
0
−1
−2
−3

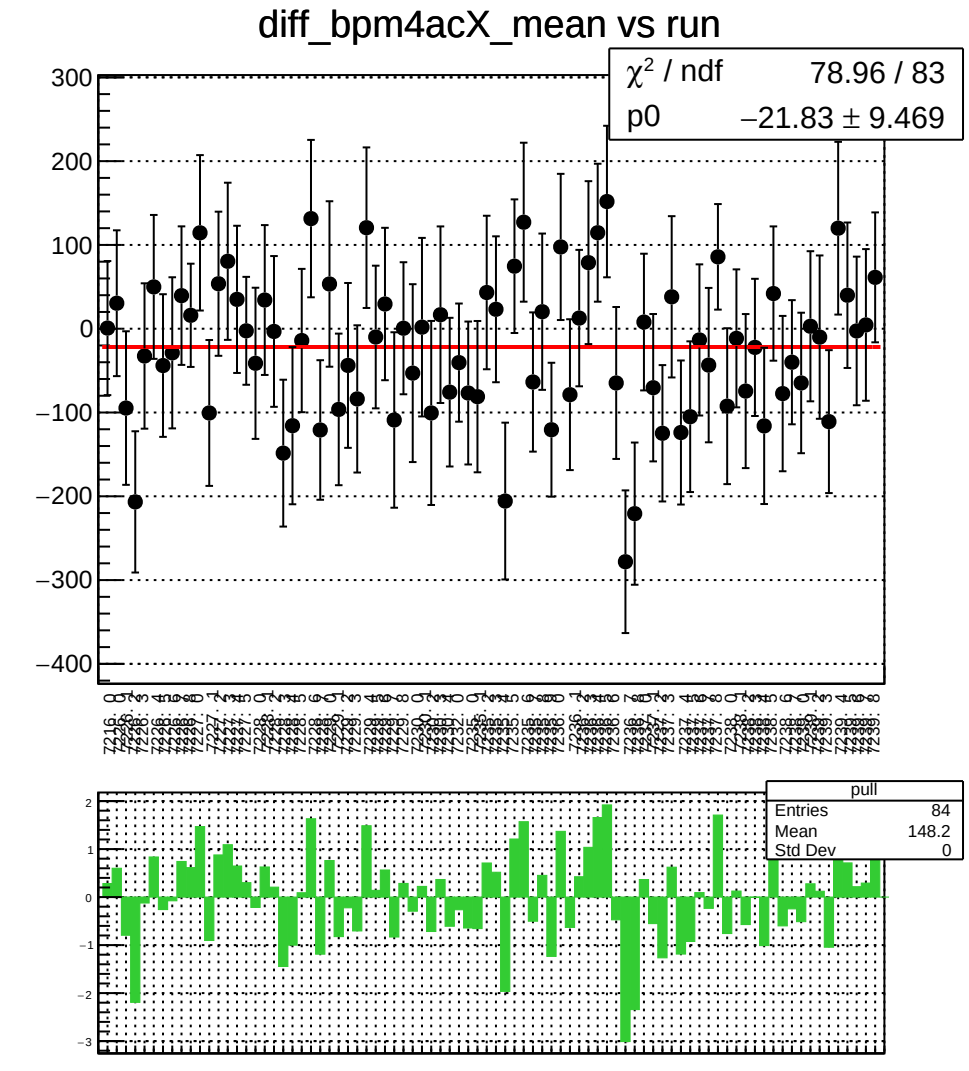

pull1D
Entries 84
Mean −0.004452
Std Dev 0.9638
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

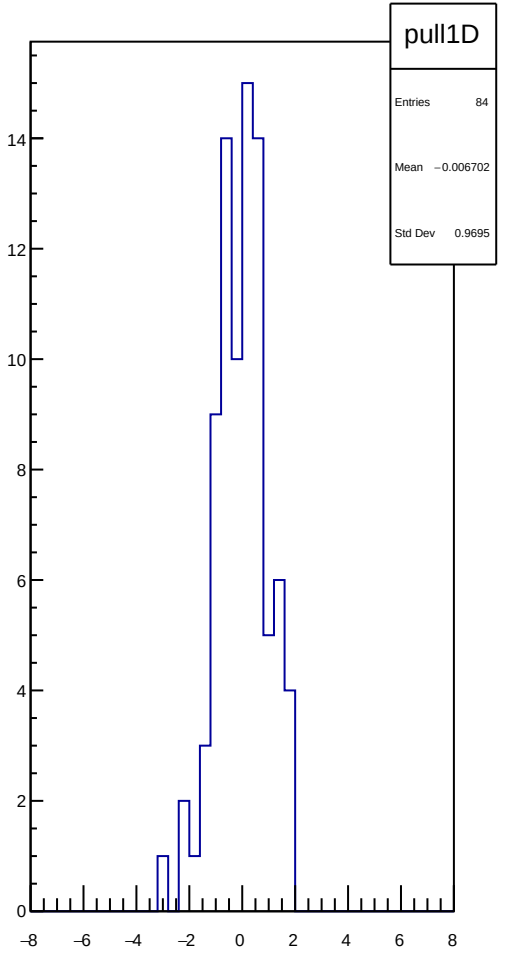

diff_bpm4eX_rms vs run
χ^2 / ndf 8393 / 83
p0 8023 ± 6.307
10000
9500
9000
8500
8000
7500
7000

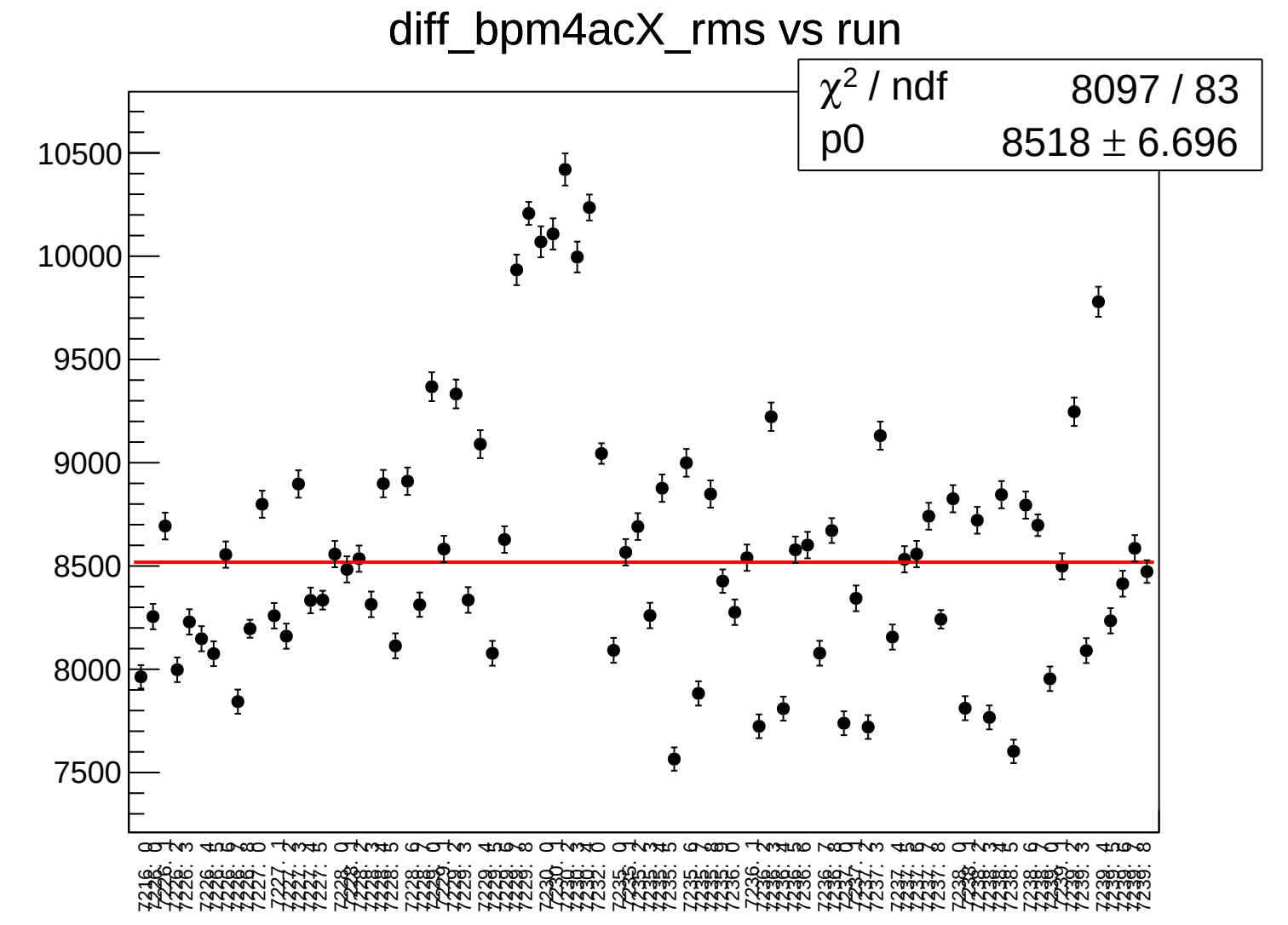

diff_bpm4eY_mean vs run
χ² / ndf 63.57 / 83
p0 −4.633 ± 6.995
pull
Entries 84
Mean −199.8
Std Dev 0

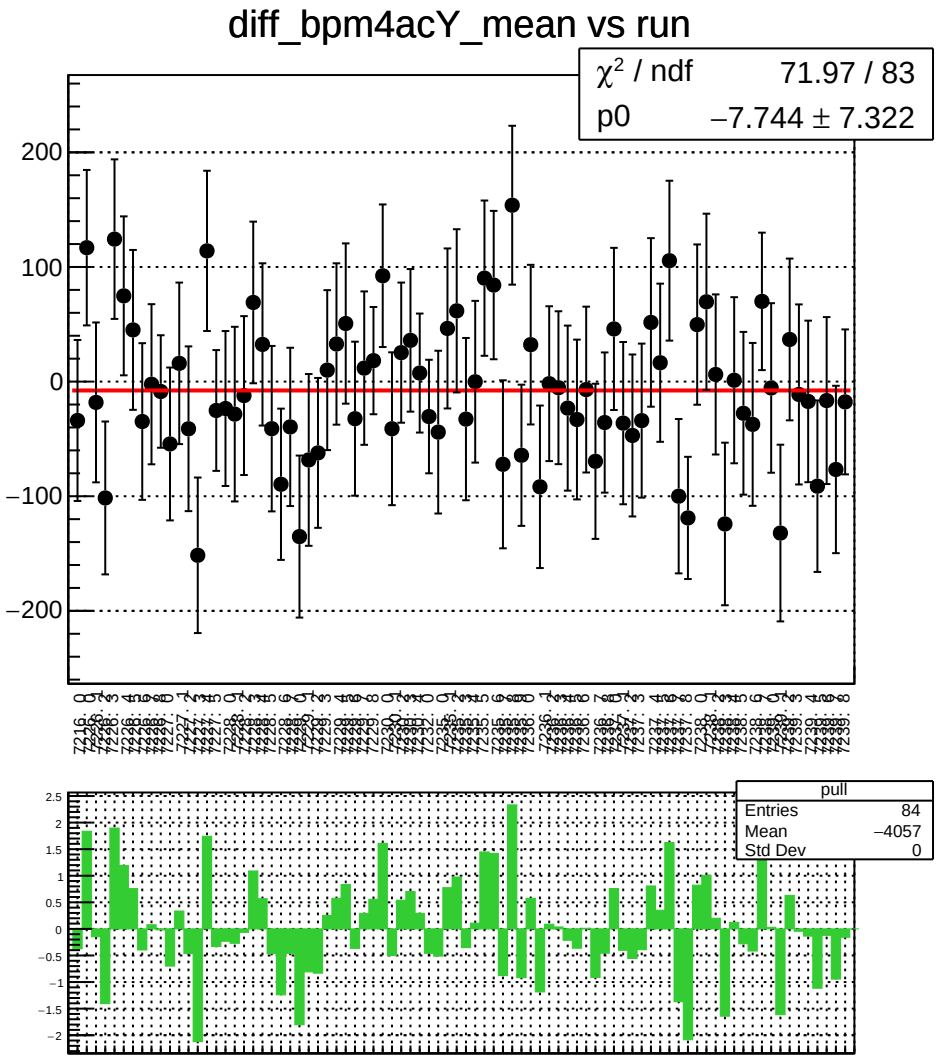

pull1D
Entries 84
Mean 0.006064
Std Dev 0.8699

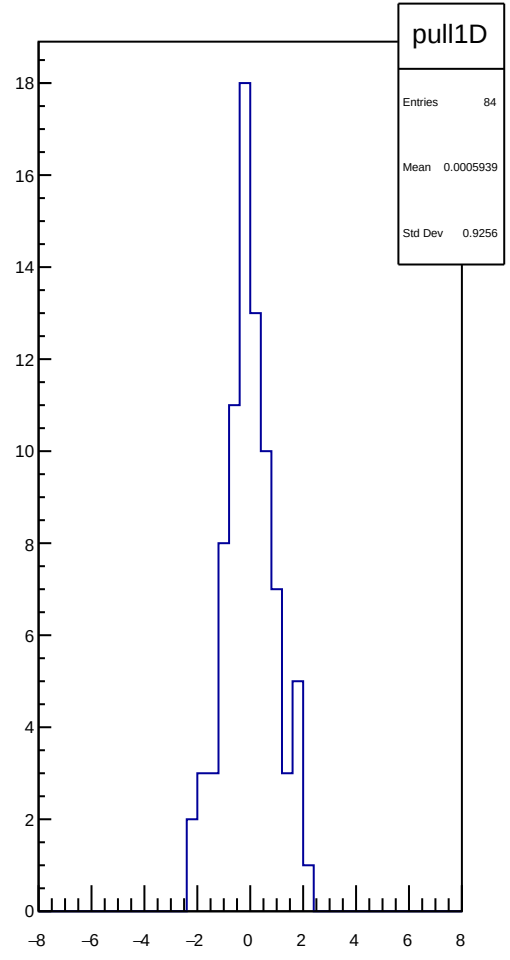

diff_bpm4eY_rms vs run
χ² / ndf 3763 / 83
p0 6301 ± 4.946
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400

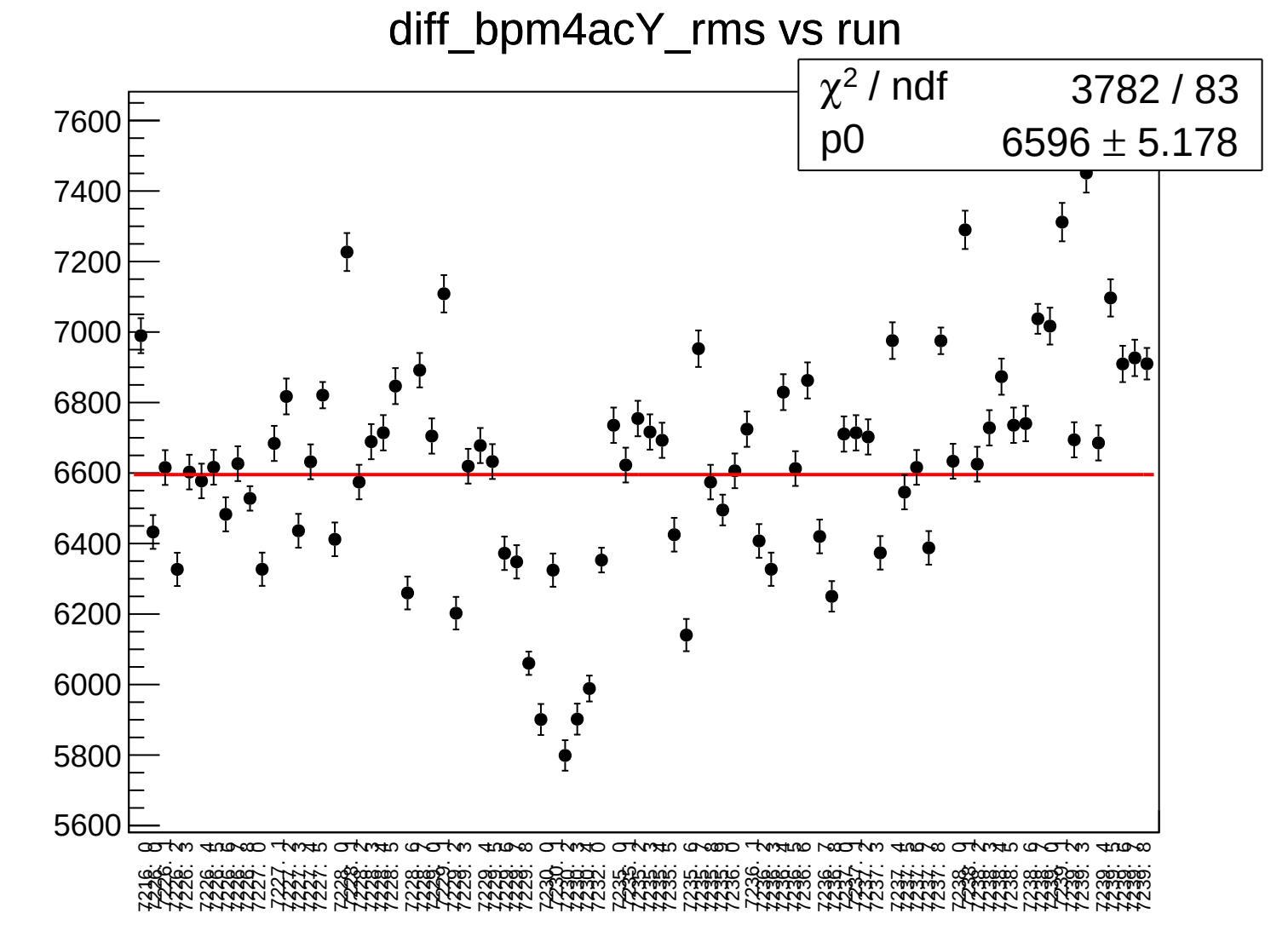

diff_bpm4acX_mean vs run
χ² / ndf 78.96 / 83
p0 −21.83 ± 9.469
pull
Entries 84
Mean 148.2
Std Dev 0

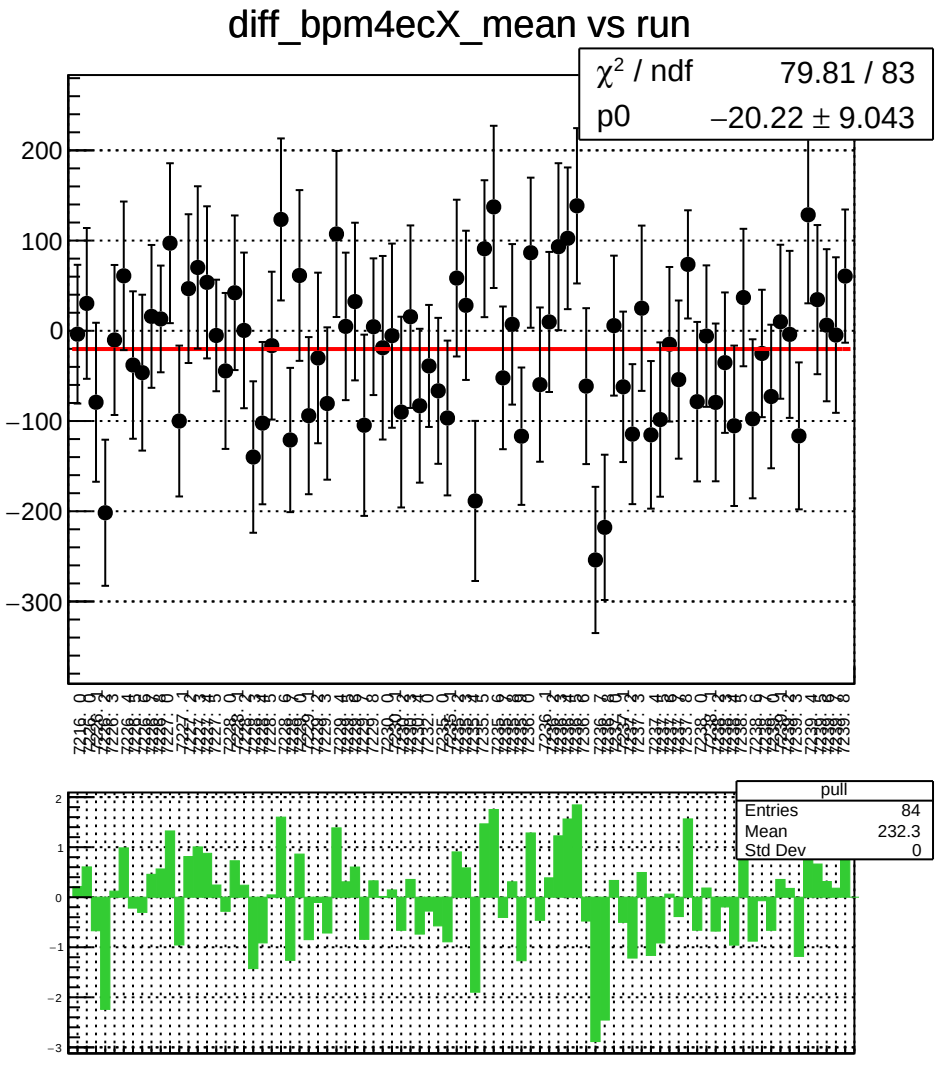

pull1D
Entries 84
Mean −0.006702
Std Dev 0.9695

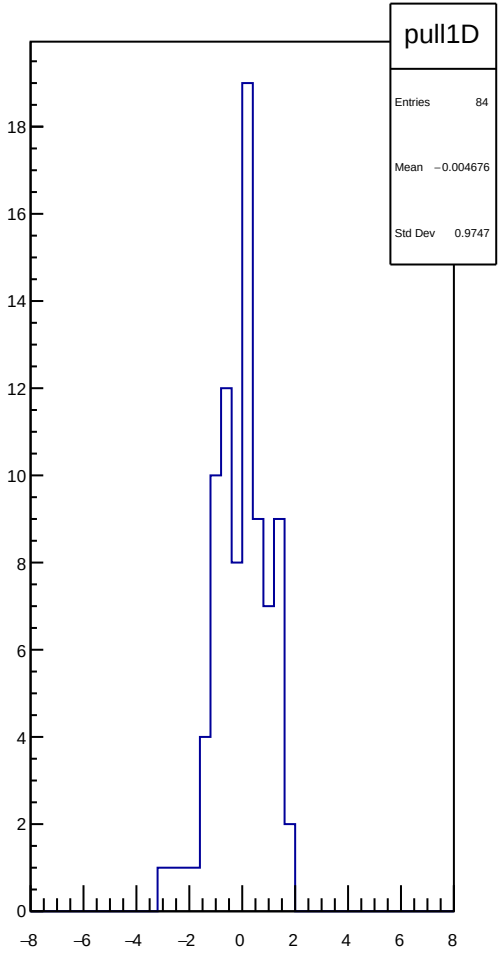

diff_bpm4acX_rms vs run
χ^2 / ndf 8097 / 83
p0 8518 ± 6.696
10500
10000
9500
9000
8500
8000
7500

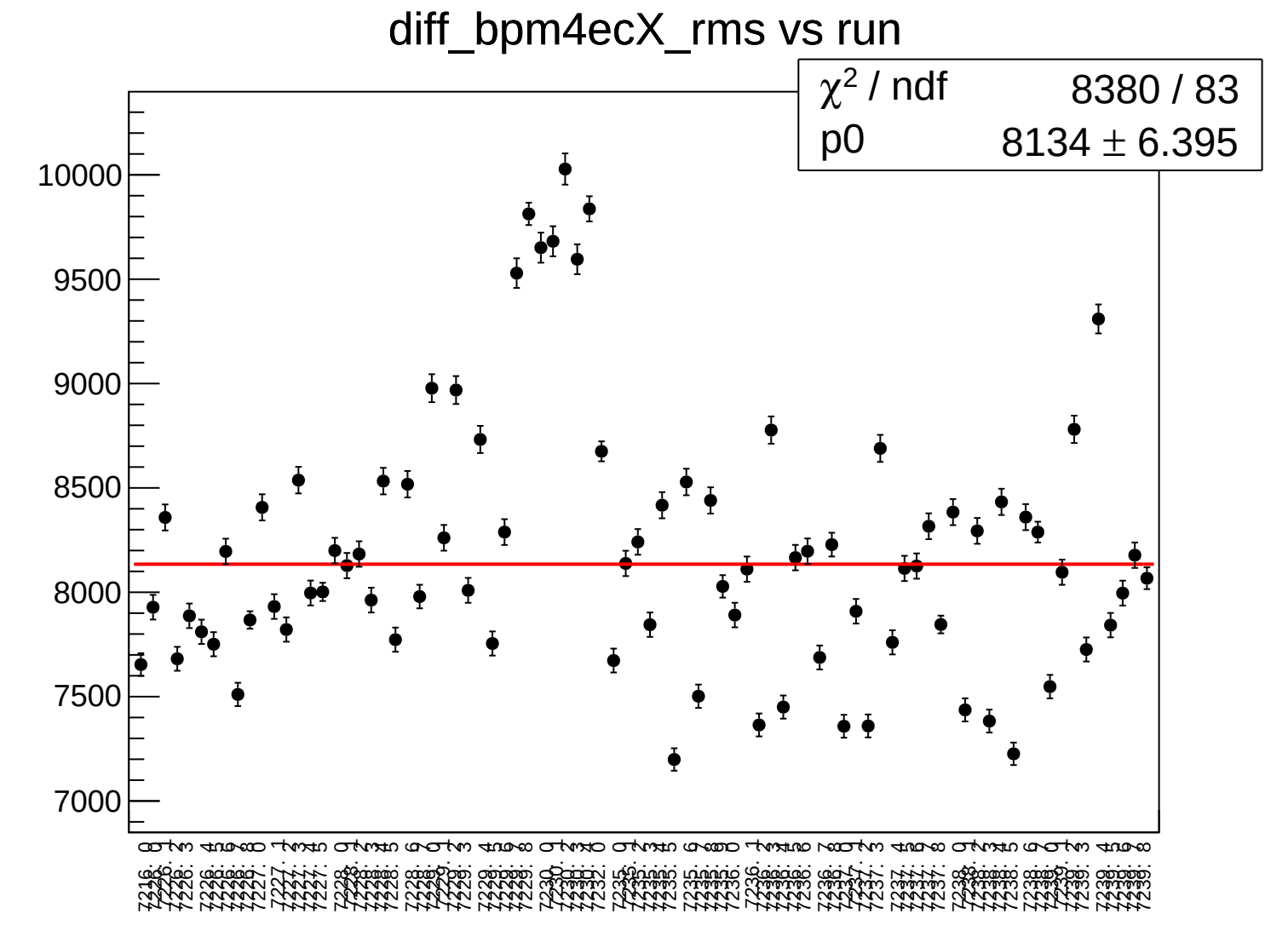

diff_bpm4acY_mean vs run
χ² / ndf 71.97 / 83
p0 −7.744 ± 7.322
200
100
0
−100
−200
pull
Entries 84
Mean −4057
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

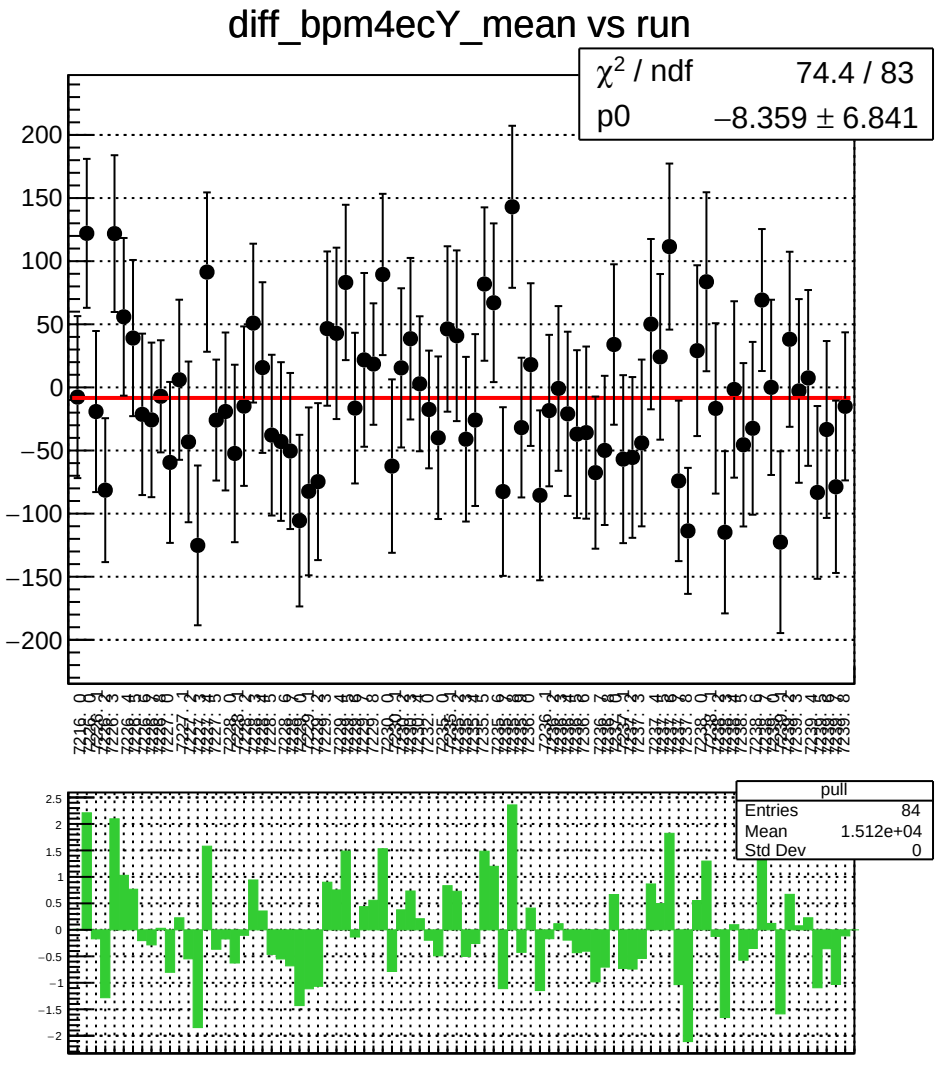

pull1D
Entries 84
Mean 0.0005939
Std Dev 0.9256
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

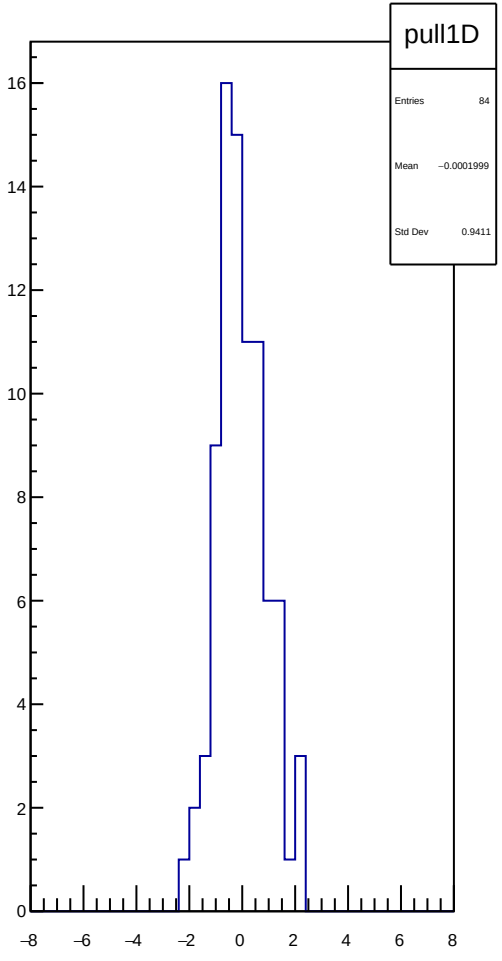

diff_bpm4acY_rms vs run
χ^2 / ndf 3782 / 83
p0 6596 ± 5.178
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800
5600

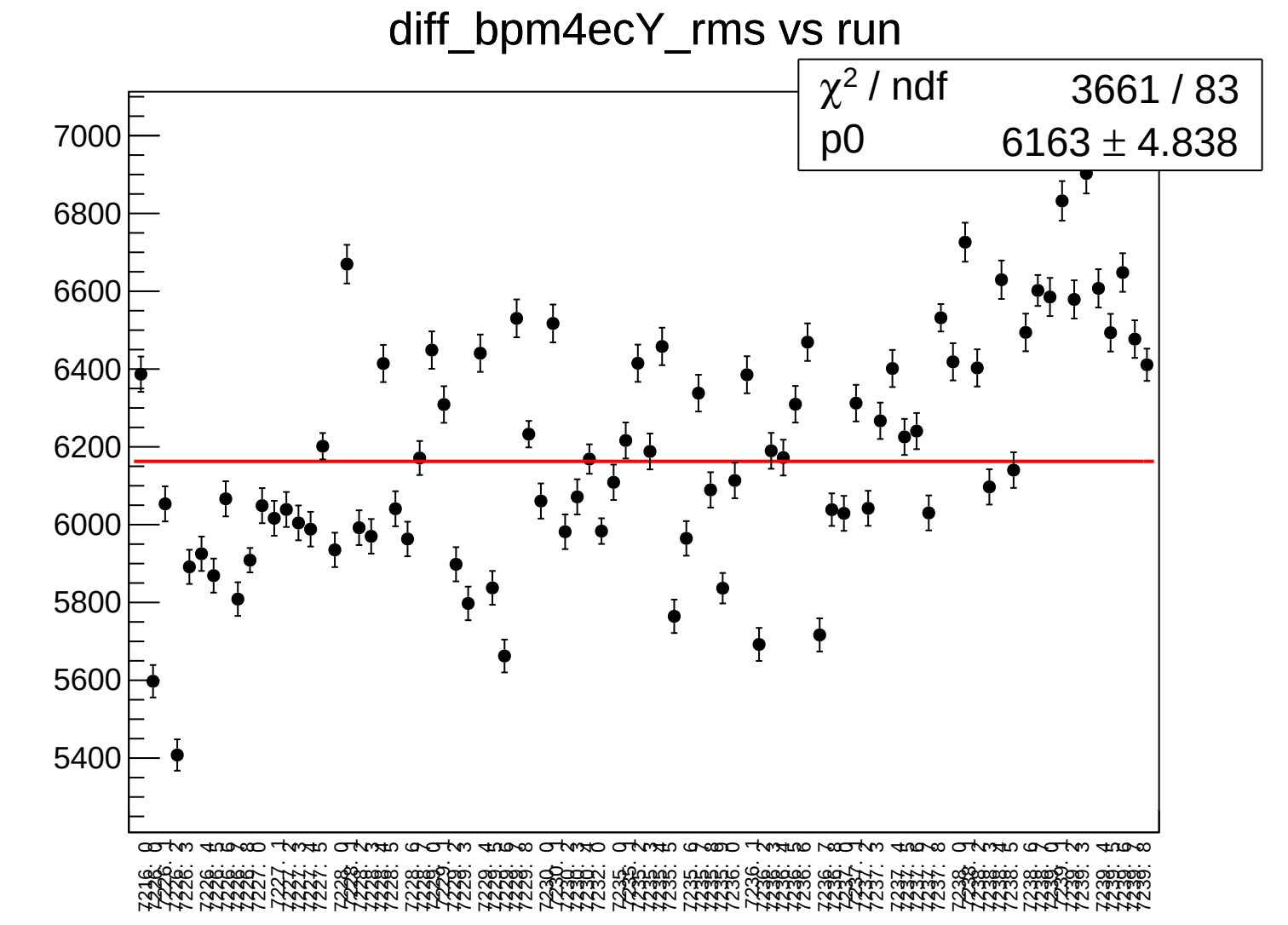

diff_bpm4ecX_mean vs run
χ² / ndf 79.81 / 83
p0 −20.22 ± 9.043
pull
Entries 84
Mean 232.3
Std Dev 0

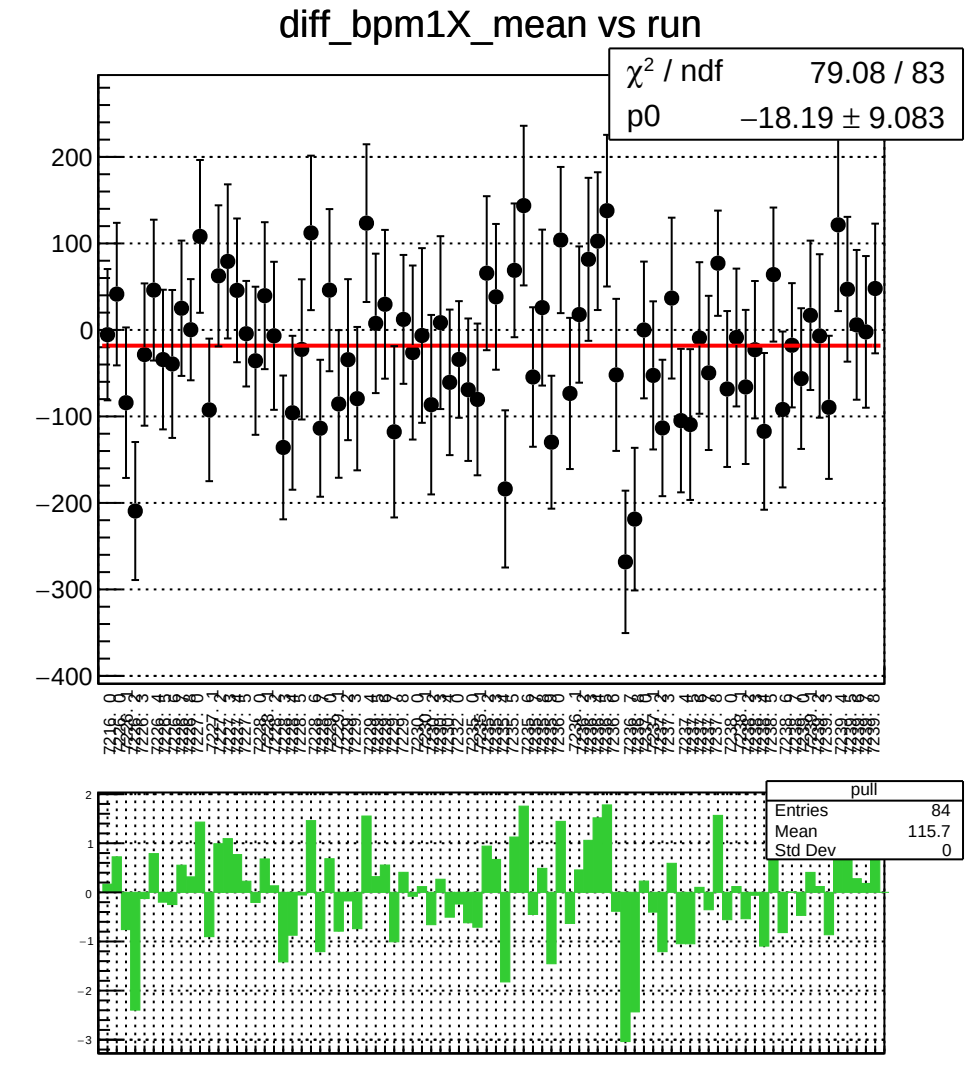

pull1D
Entries 84
Mean −0.004676
Std Dev 0.9747

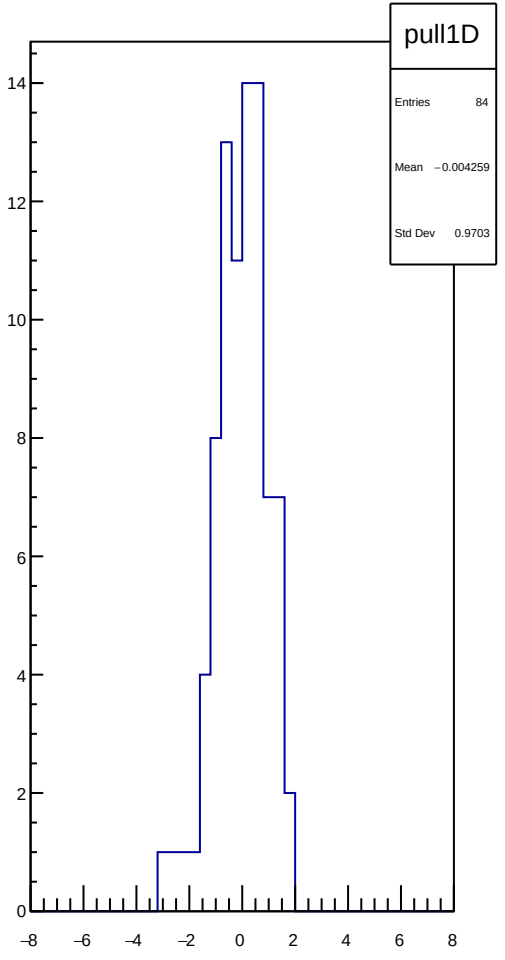

diff_bpm4ecX_rms vs run
χ² / ndf 8380 / 83
p0 8134 ± 6.395
10000
9500
9000
8500
8000
7500
7000

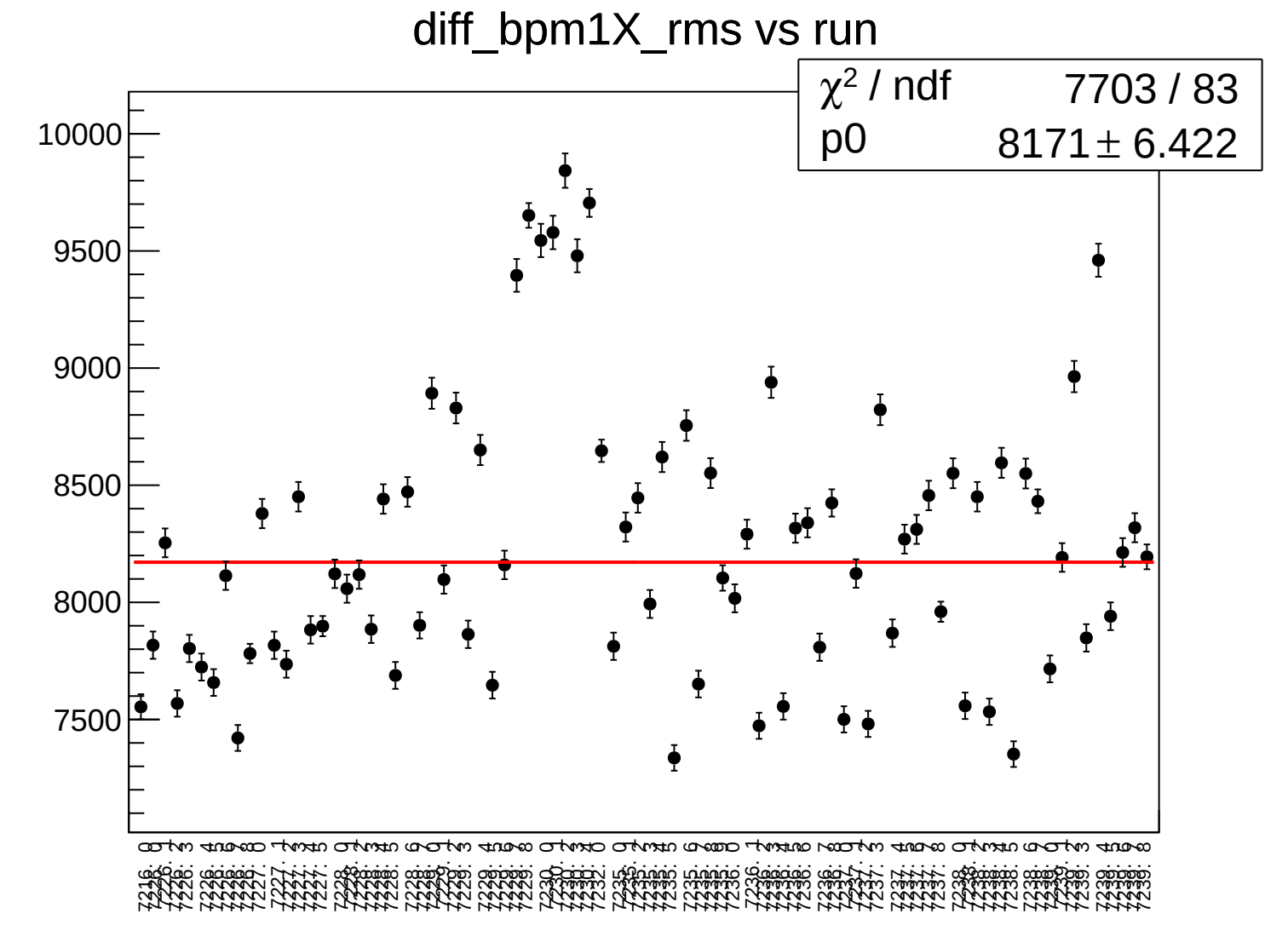

diff_bpm4ecY_mean vs run
χ² / ndf 74.4 / 83
p0 −8.359 ± 6.841
pull
Entries 84
Mean 1.512e+04
Std Dev 0

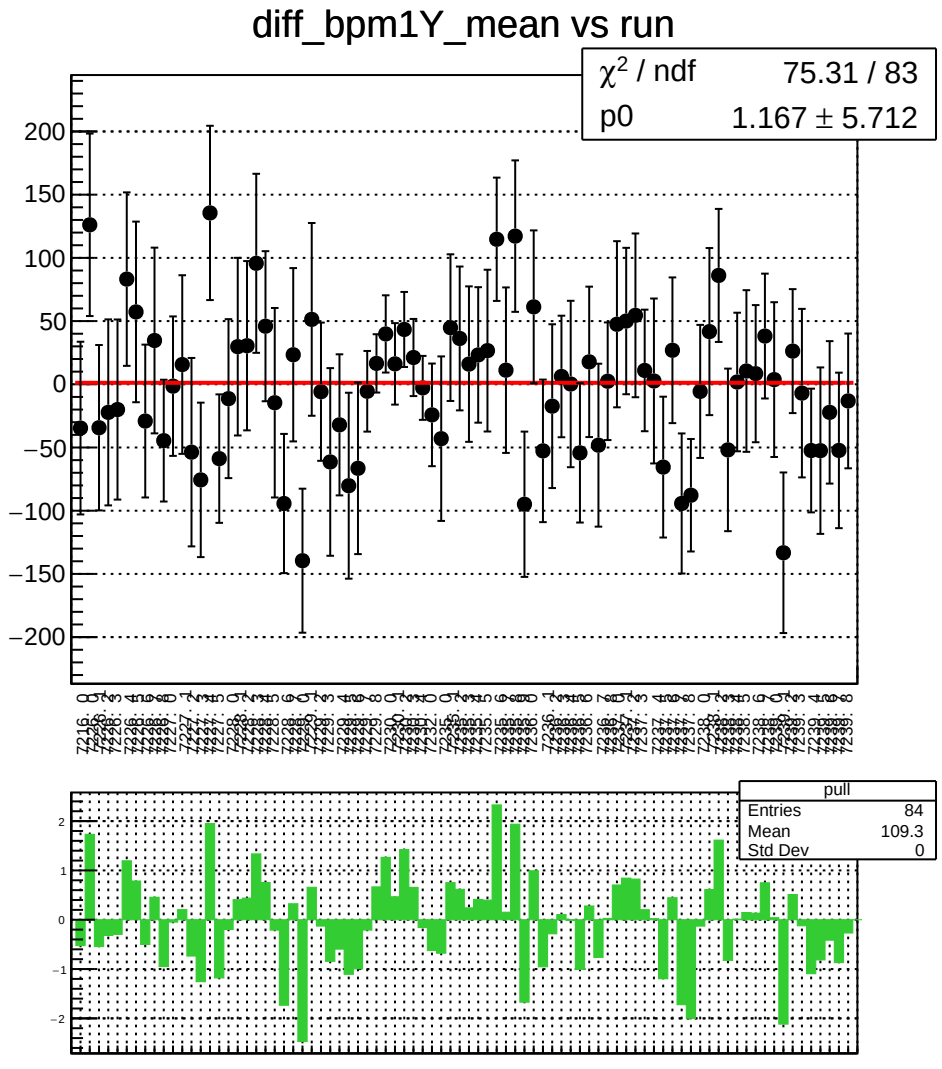

pull1D
Entries 84
Mean −0.0001999
Std Dev 0.9411

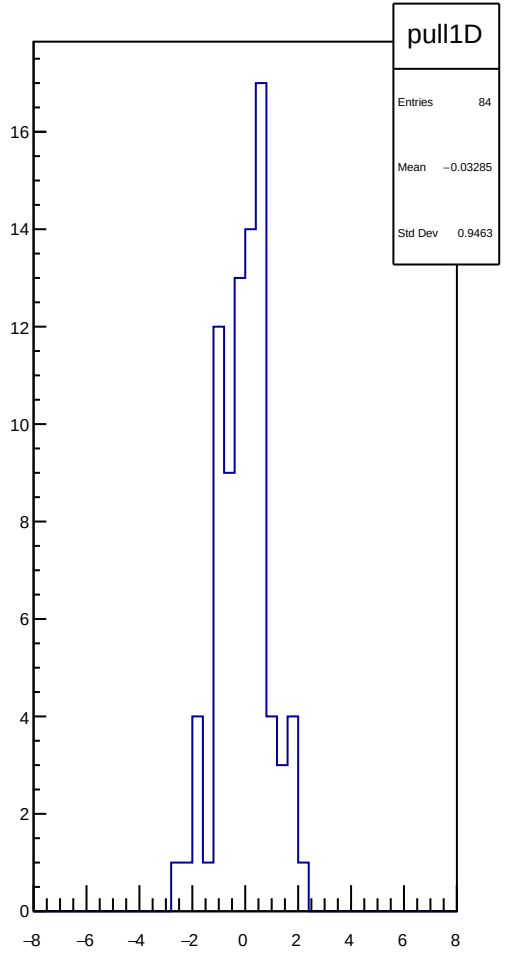

diff_bpm4ecY_rms vs run
χ² / ndf 3661 / 83
p0 6163 ± 4.838
7000
6800
6600
6400
6200
6000
5800
5600
5400

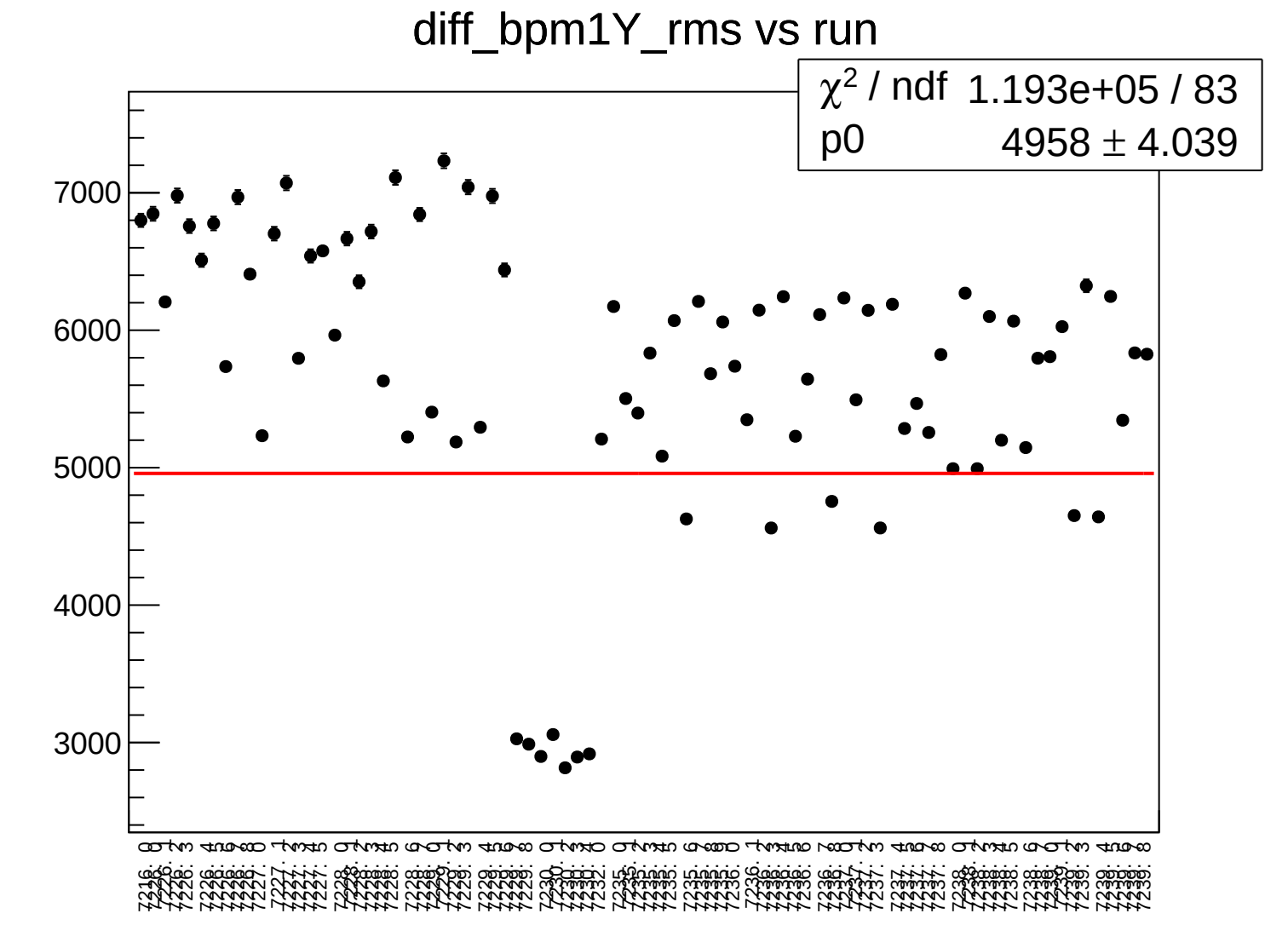

diff_bpm1X_mean vs run
χ² / ndf 79.08 / 83
p0 −18.19 ± 9.083
pull
Entries 84
Mean 115.7
Std Dev 0

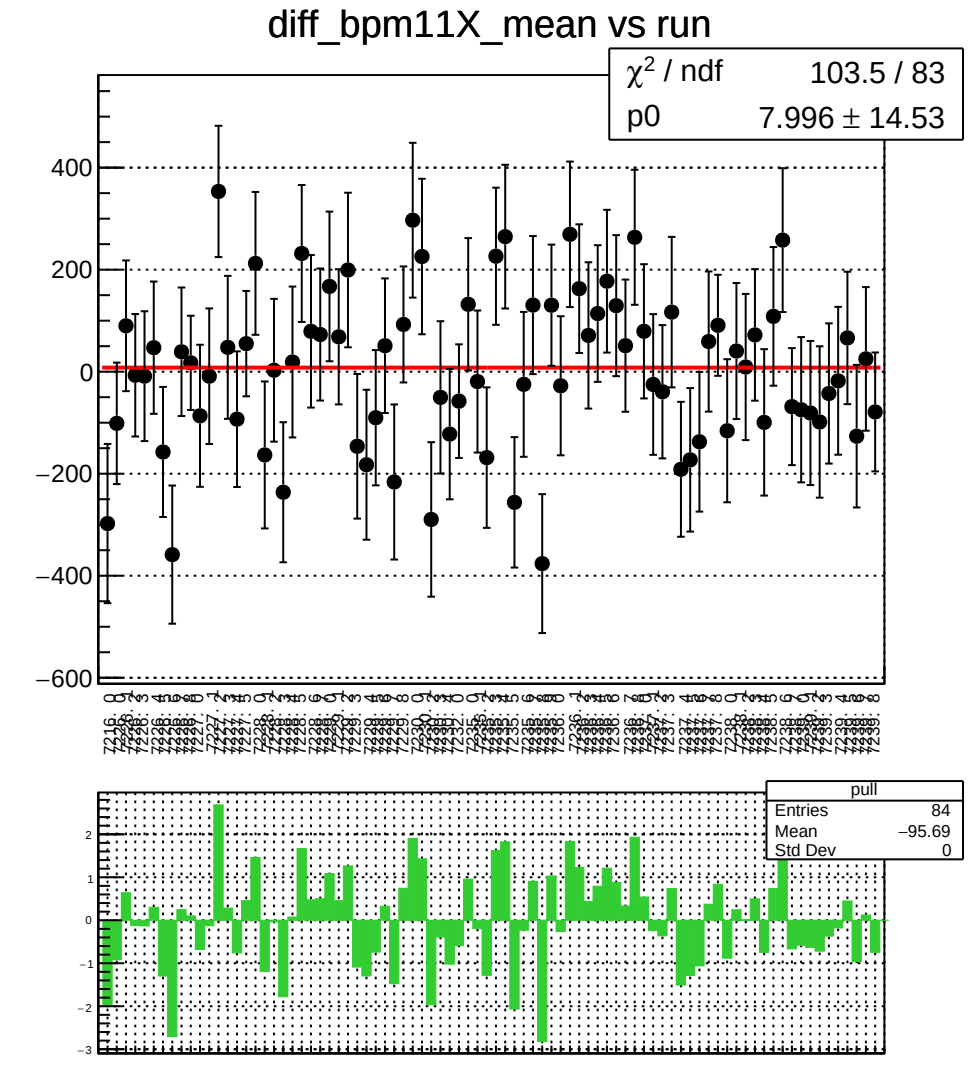

pull1D
Entries 84
Mean −0.004259
Std Dev 0.9703

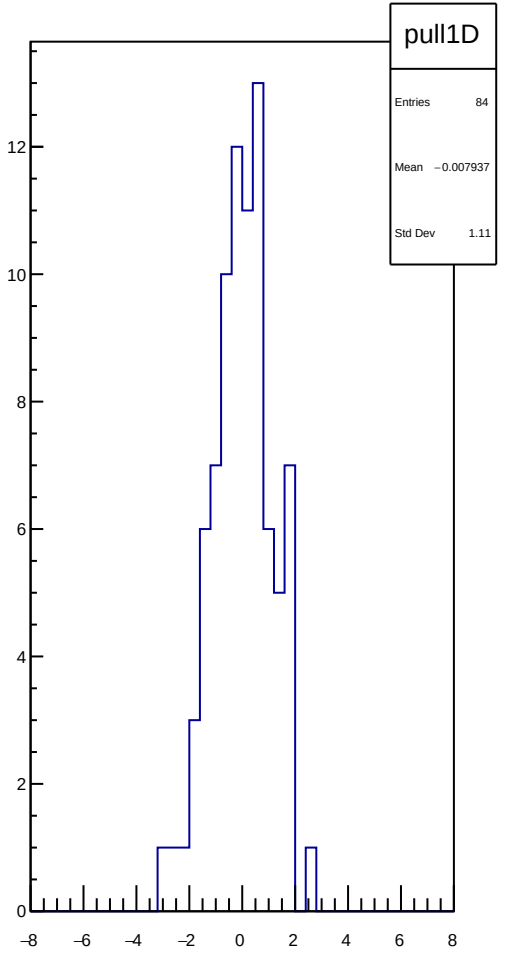

diff_bpm1X_rms vs run
χ^2 / ndf 7703 / 83
p0 8171 ± 6.422
10000
9500
9000
8500
8000
7500

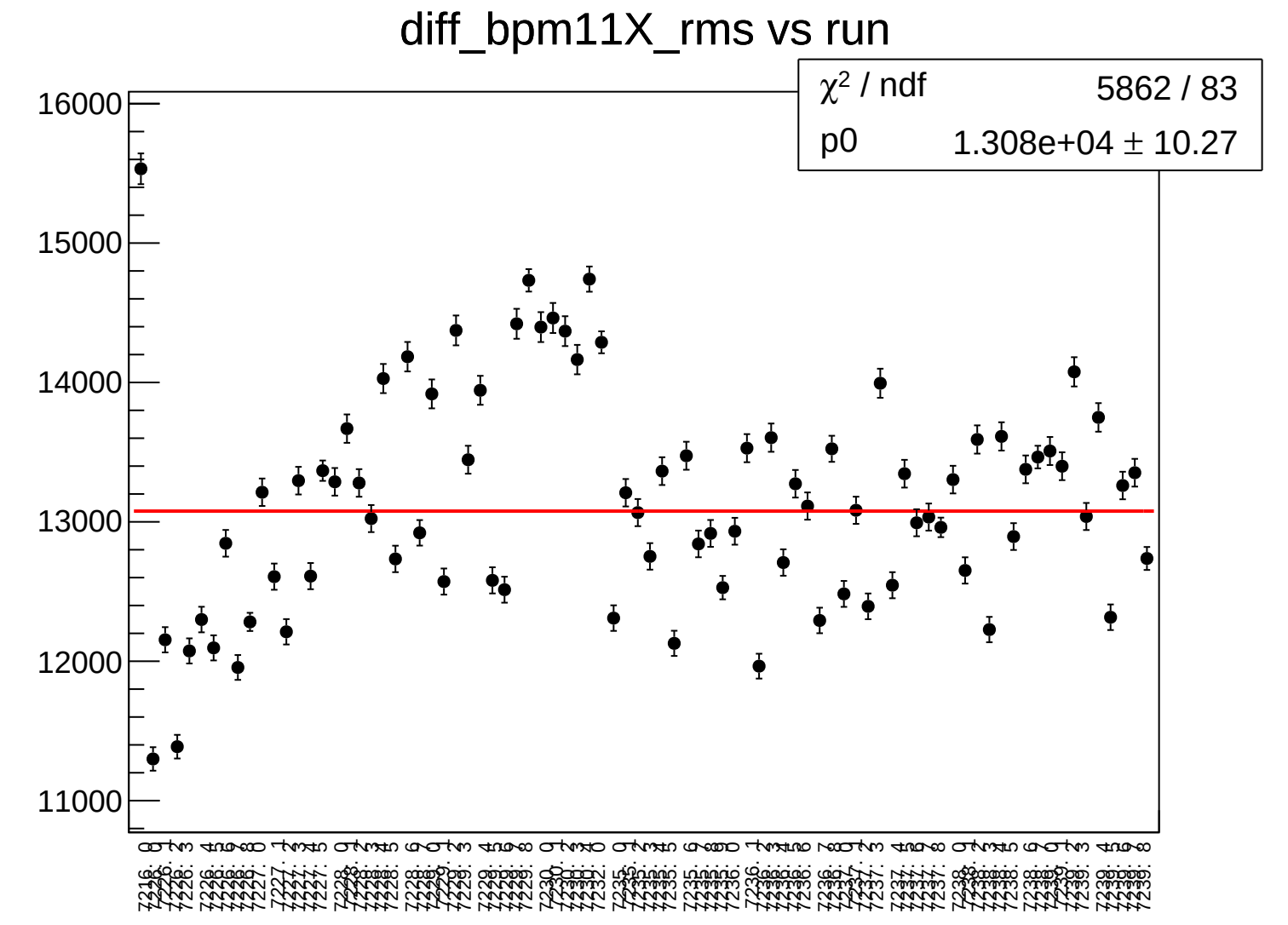

diff_bpm1Y_mean vs run
χ² / ndf 75.31 / 83
p0 1.167 ± 5.712
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 84
Mean 109.3
Std Dev 0
2
1
0
−1
−2

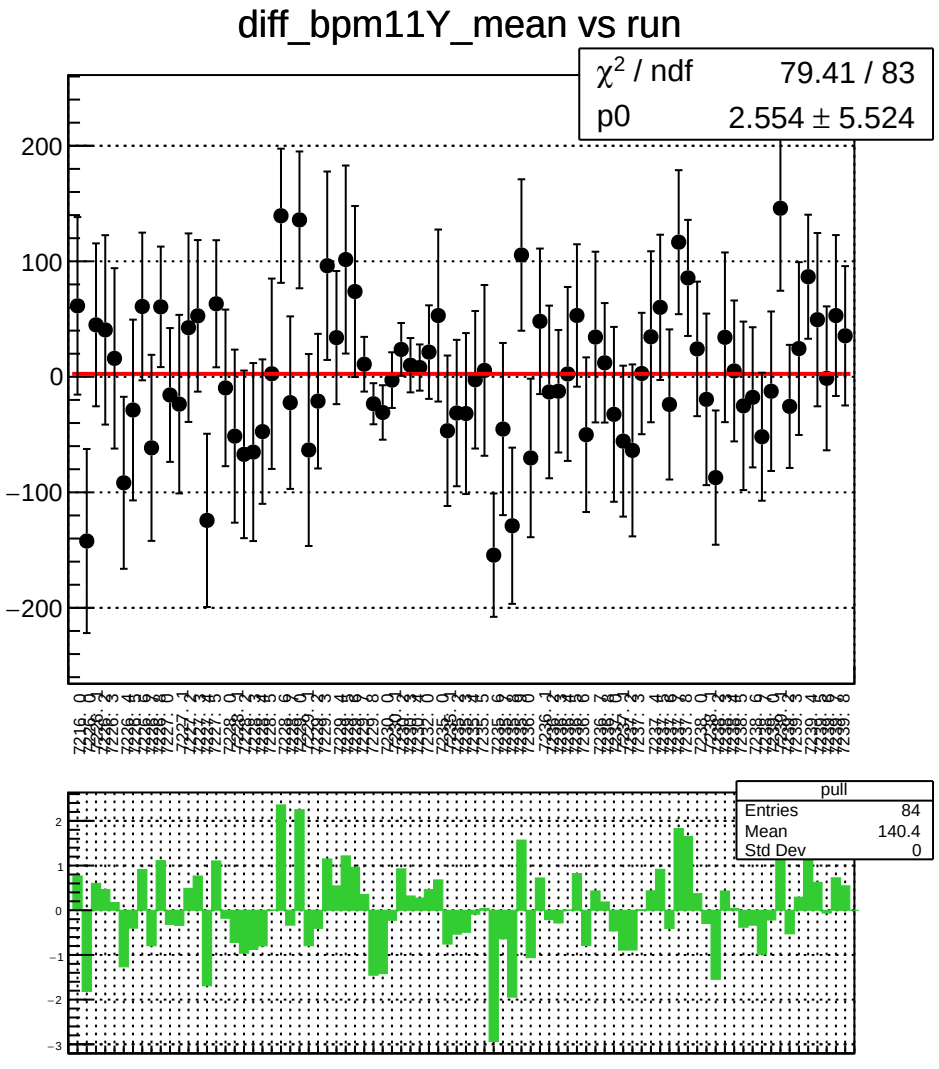

pull1D
Entries 84
Mean −0.03285
Std Dev 0.9463
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

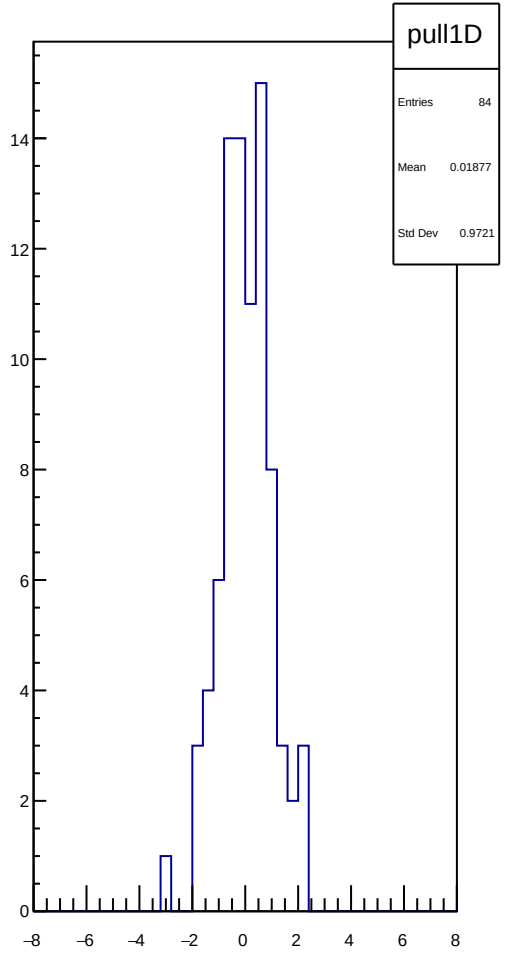

diff_bpm1Y_rms vs run
χ² / ndf 1.193e+05 / 83
p0 4958 ± 4.039
7000
6000
5000
4000
3000

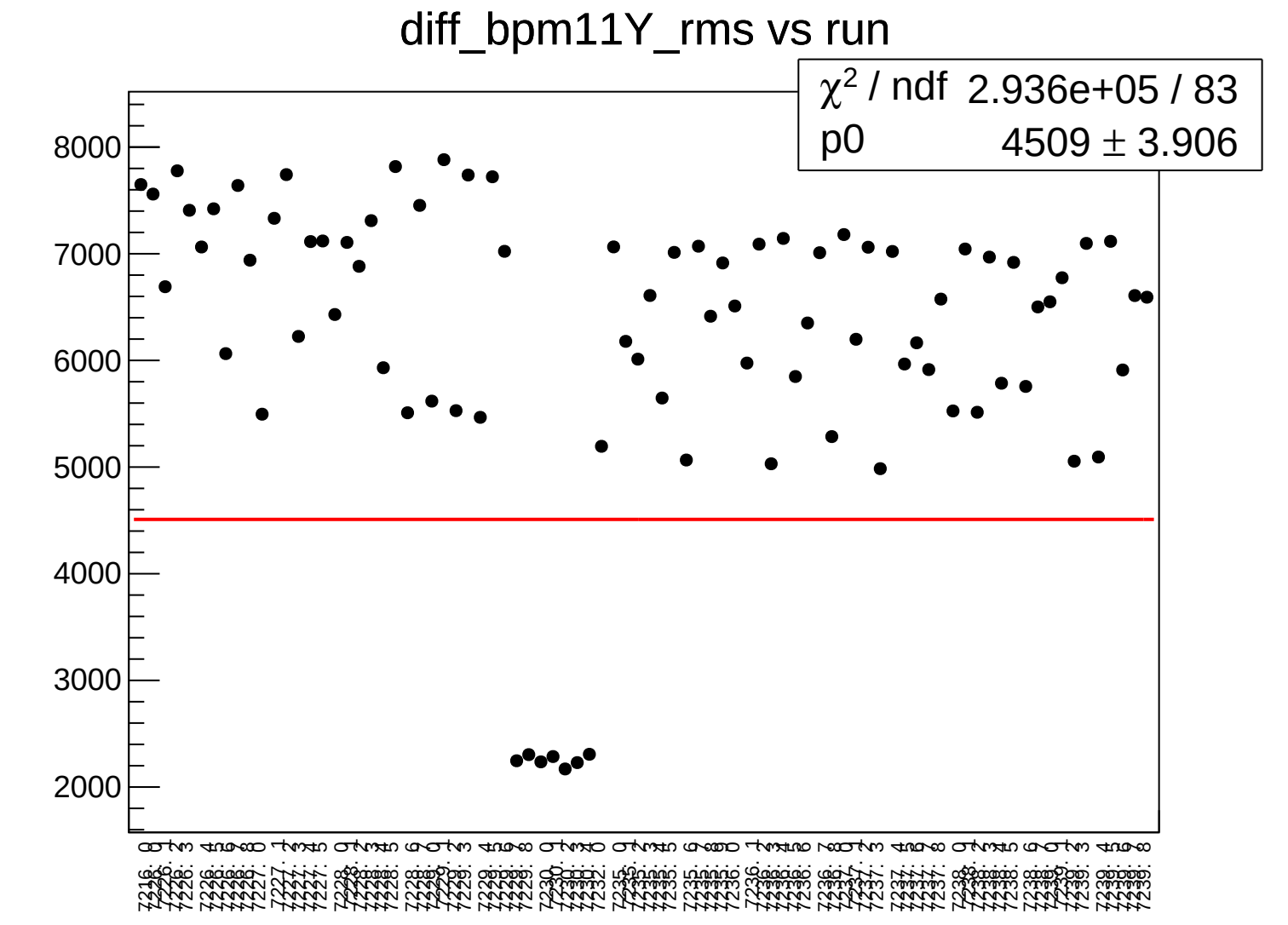

diff_bpm11X_mean vs run
χ² / ndf 103.5 / 83
p0 7.996 ± 14.53
pull
Entries 84
Mean −95.69
Std Dev 0

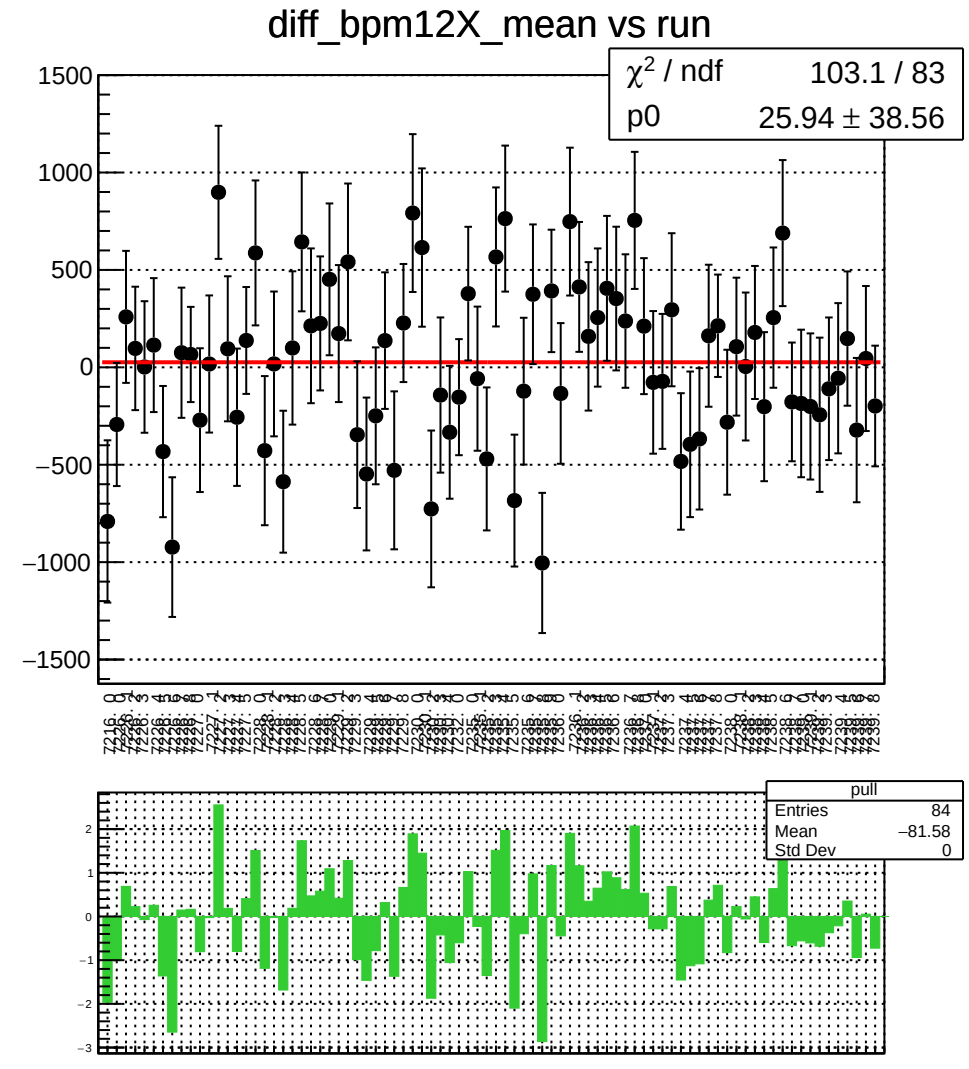

pull1D
Entries 84
Mean −0.007937
Std Dev 1.11

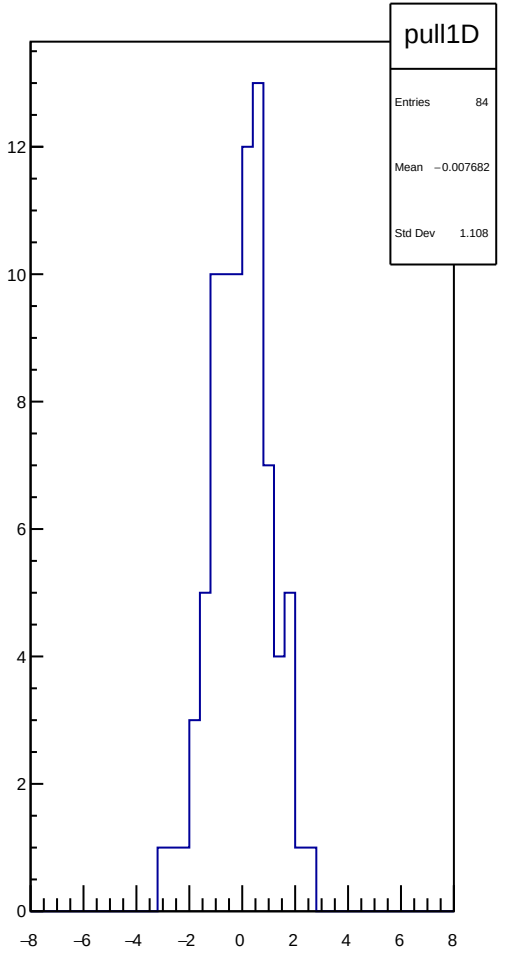

diff_bpm11X_rms vs run
χ² / ndf 5862 / 83
p0 1.308e+04 ± 10.27
16000
15000
14000
13000
12000
11000

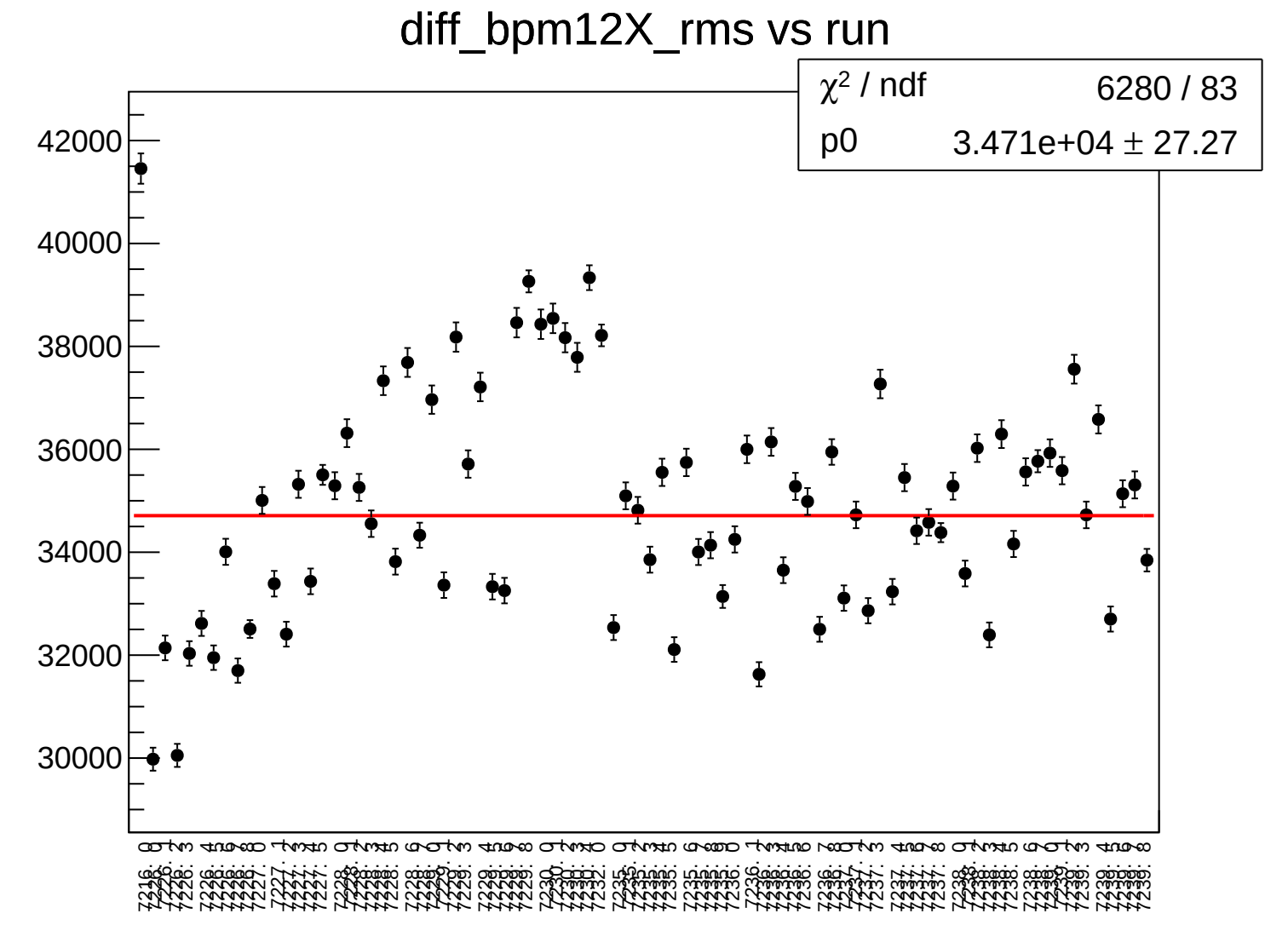

diff_bpm11Y_mean vs run
χ² / ndf 79.41 / 83
p0 2.554 ± 5.524
200
100
0
−100
−200
pull
Entries 84
Mean 140.4
Std Dev 0
2
1
0
−1
−2
−3

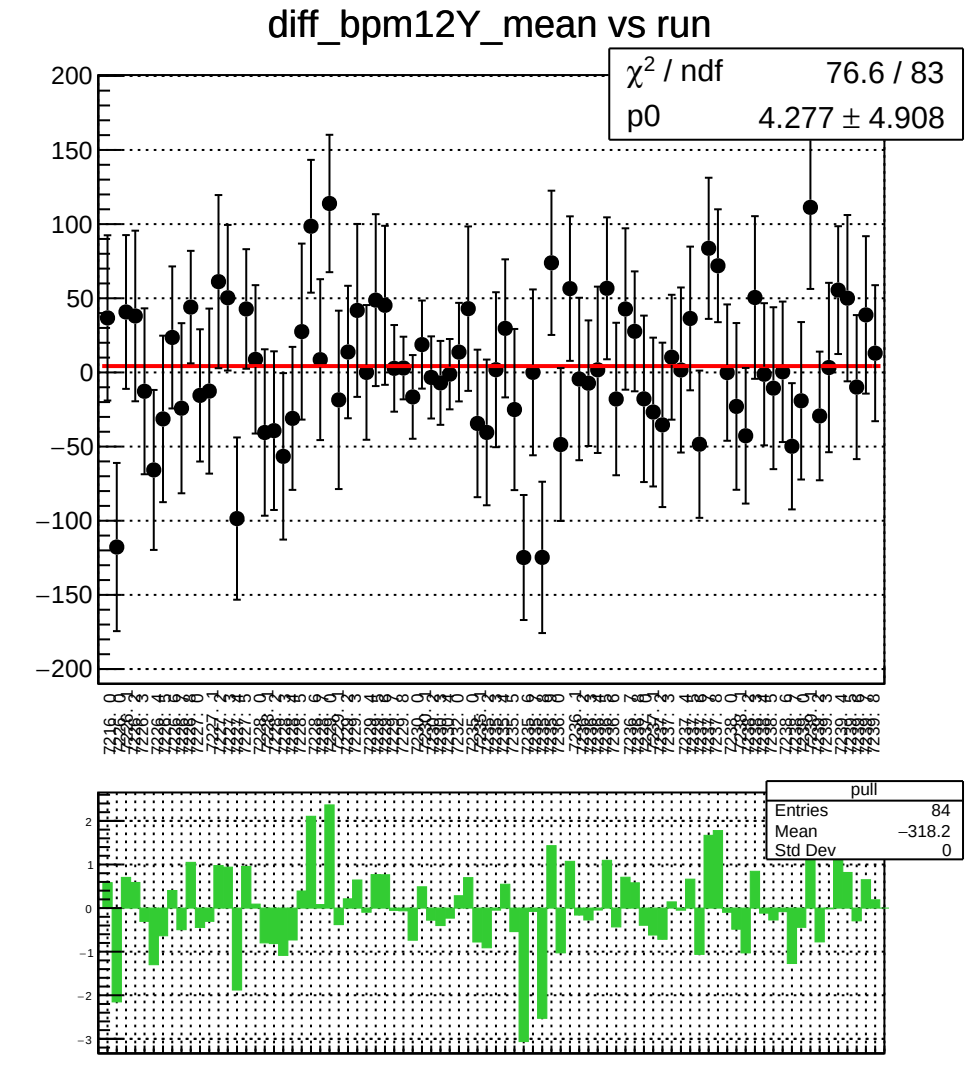

pull1D
Entries 84
Mean 0.01877
Std Dev 0.9721
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

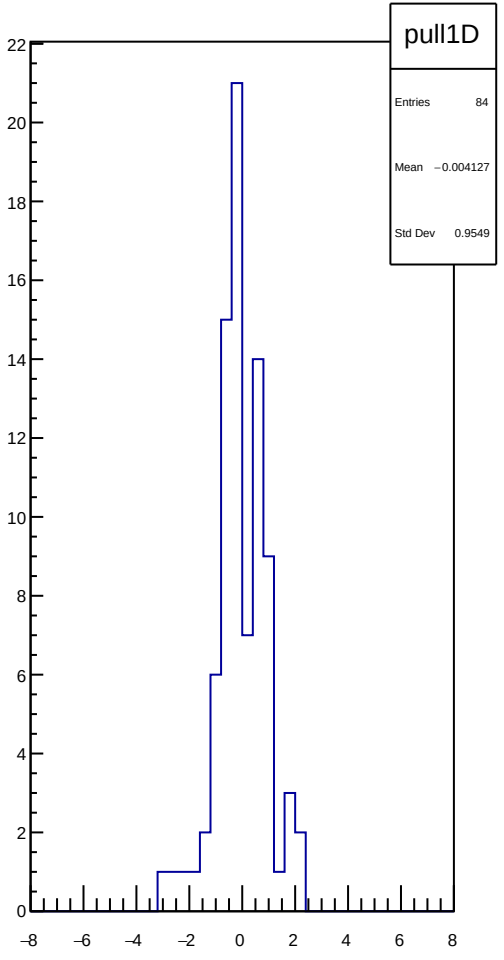

diff_bpm11Y_rms vs run
χ² / ndf 2.936e+05 / 83
p0 4509 ± 3.906
8000
7000
6000
5000
4000
3000
2000

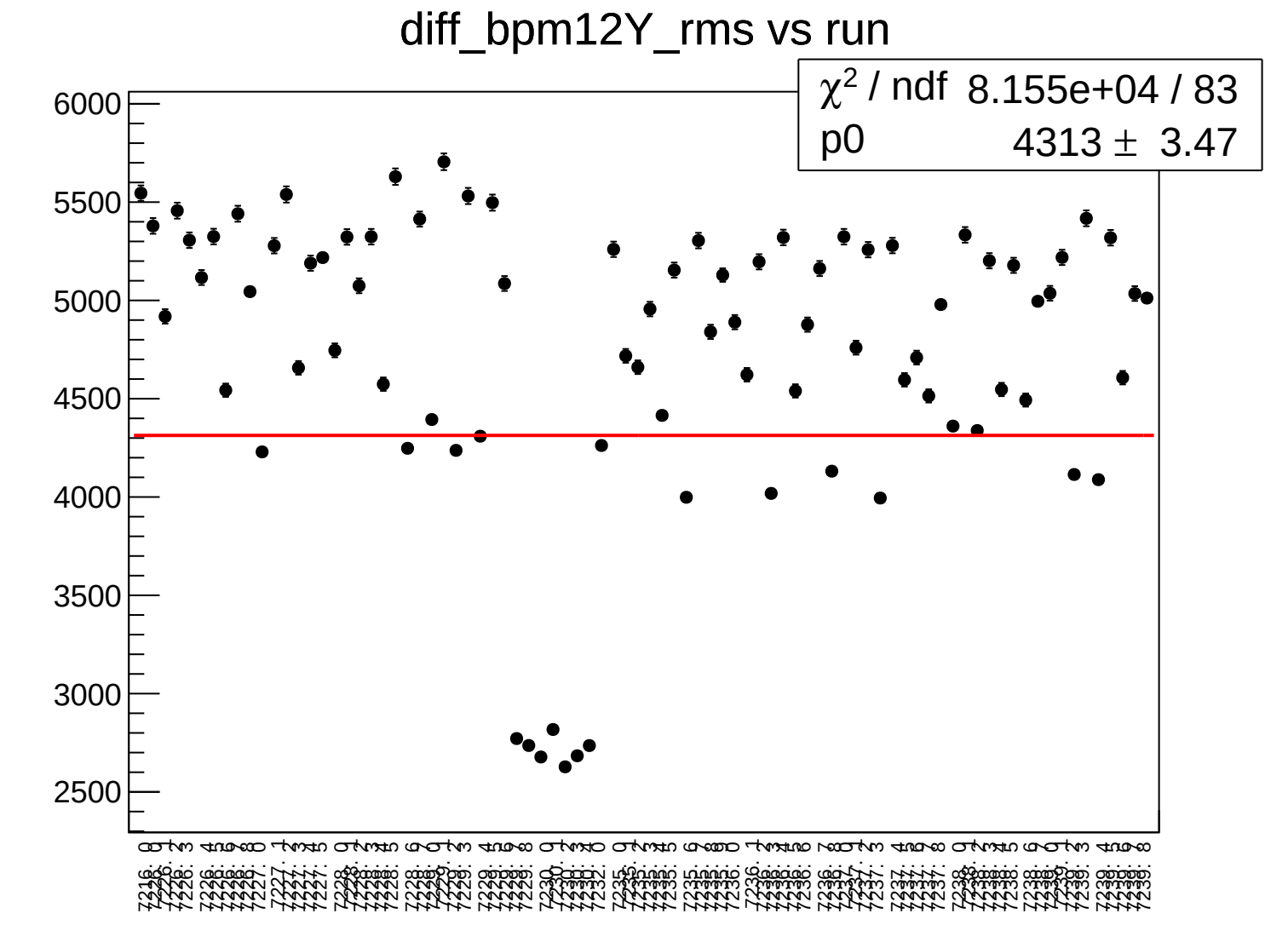

diff_bpm12X_mean vs run
χ² / ndf 103.1 / 83
p0 25.94 ± 38.56
pull
Entries 84
Mean −81.58
Std Dev 0

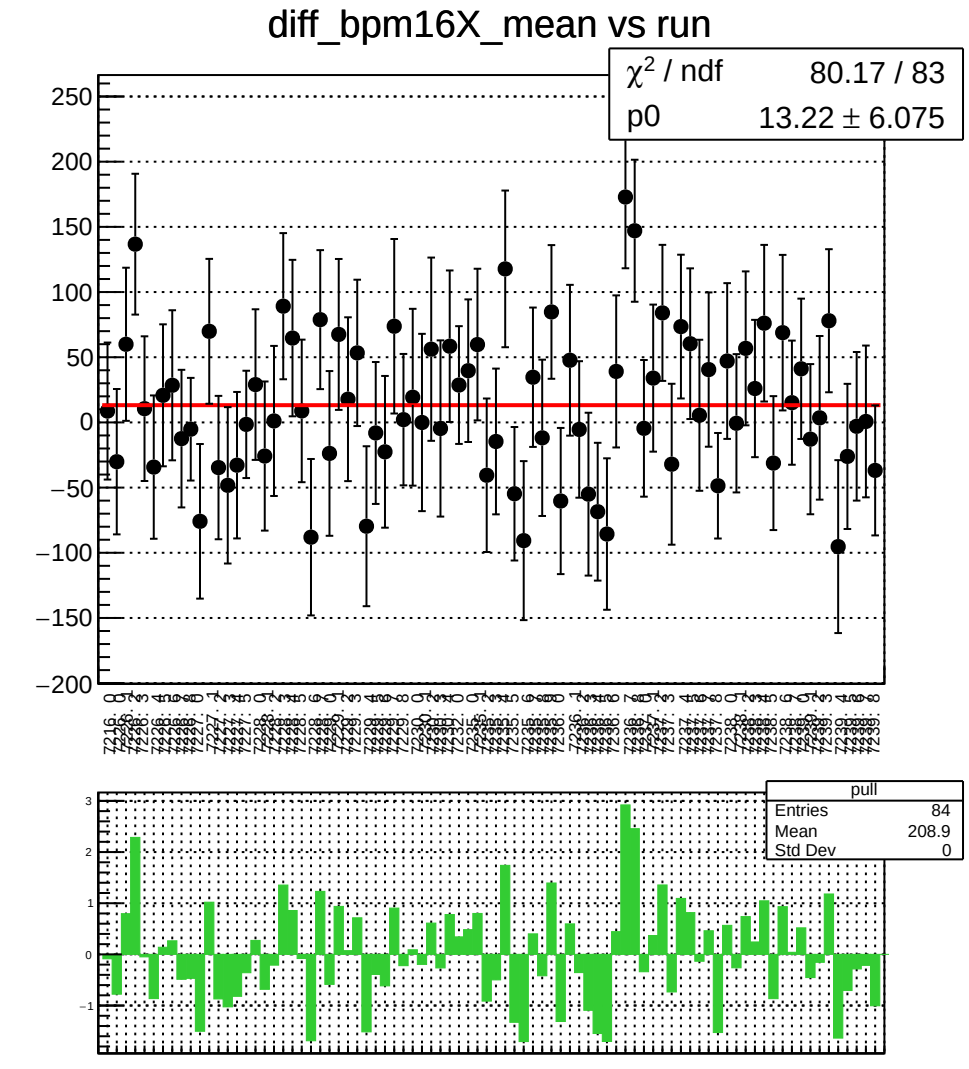

pull1D
Entries 84
Mean −0.007682
Std Dev 1.108

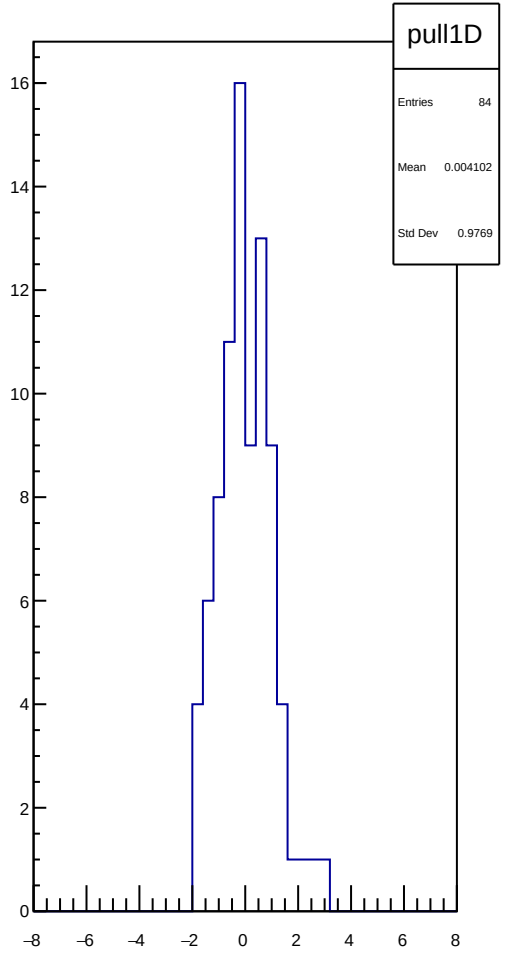

diff_bpm12X_rms vs run
χ² / ndf 6280 / 83
p0 3.471e+04 ± 27.27
42000
40000
38000
36000
34000
32000
30000

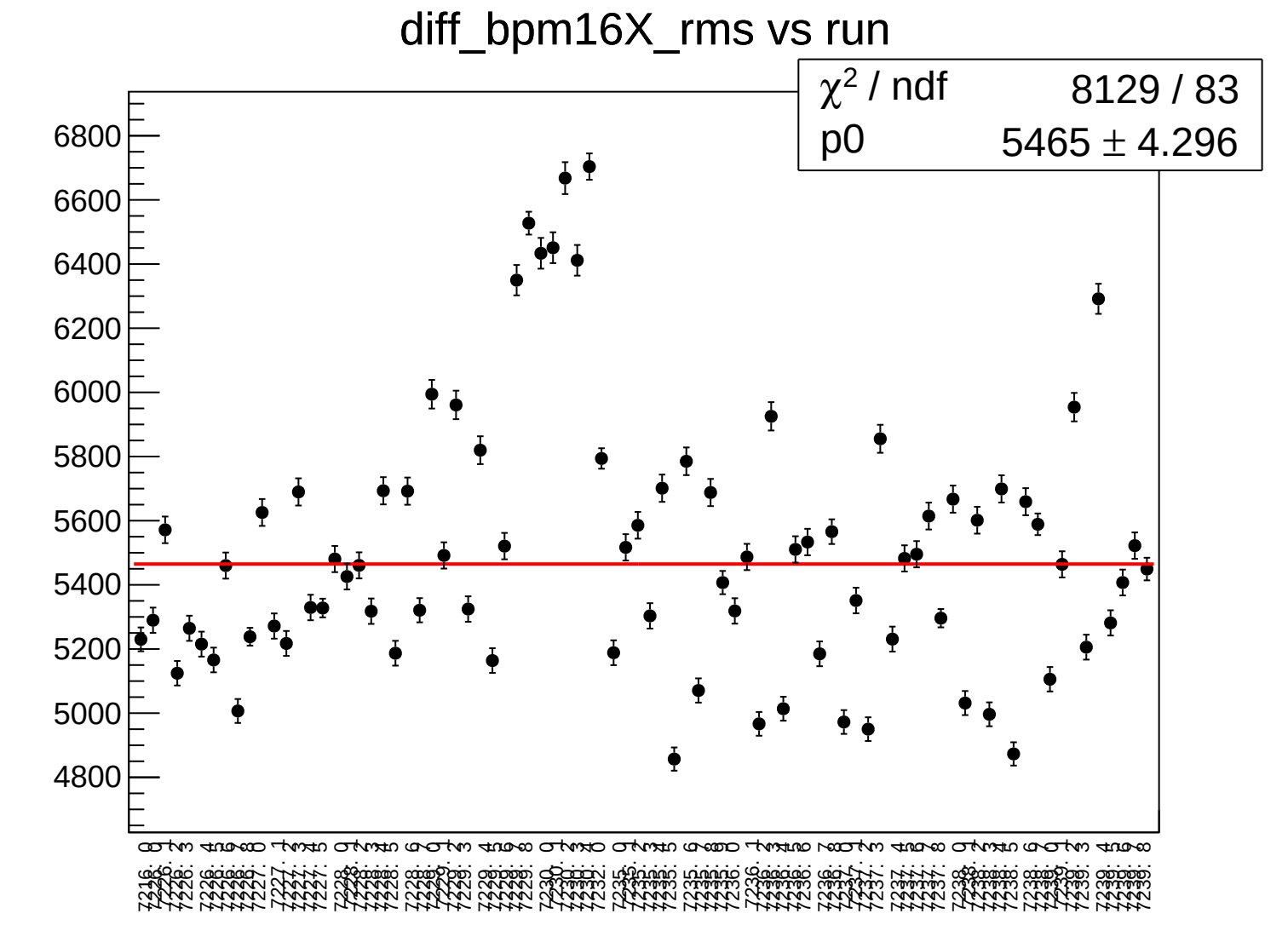

diff_bpm12Y_mean vs run
χ² / ndf 76.6 / 83
p0 4.277 ± 4.908
pull
Entries 84
Mean −318.2
Std Dev 0

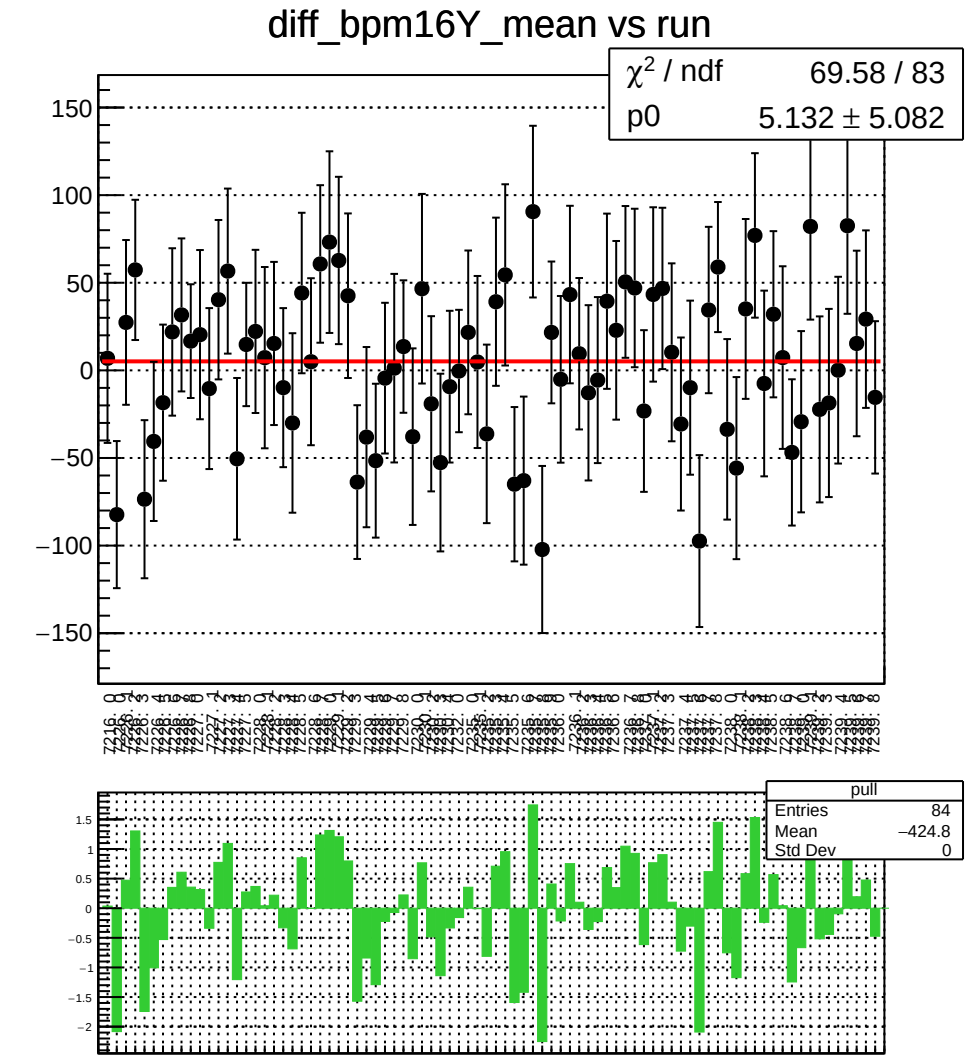

pull1D
Entries 84
Mean −0.004127
Std Dev 0.9549

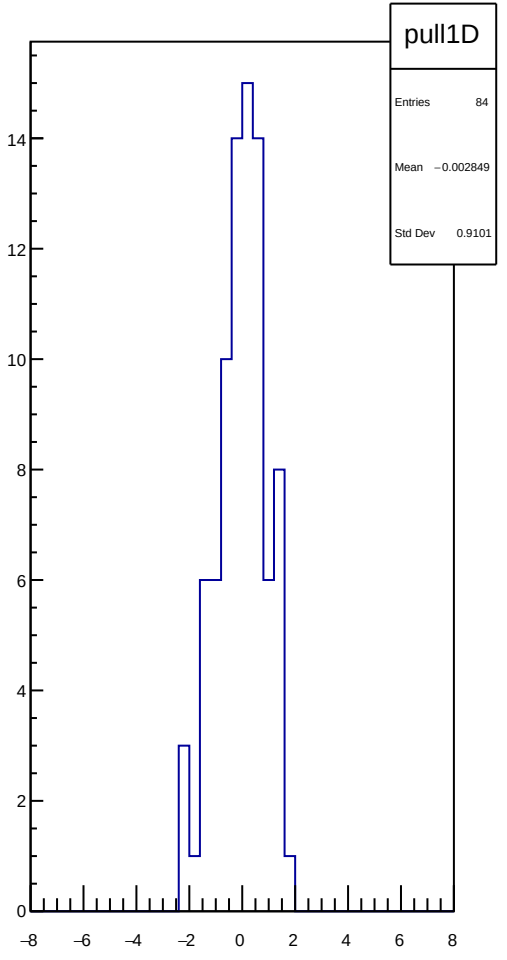

diff_bpm12Y_rms vs run
χ² / ndf 8.155e+04 / 83
p0 4313 ± 3.47
6000
5500
5000
4500
4000
3500
3000
2500

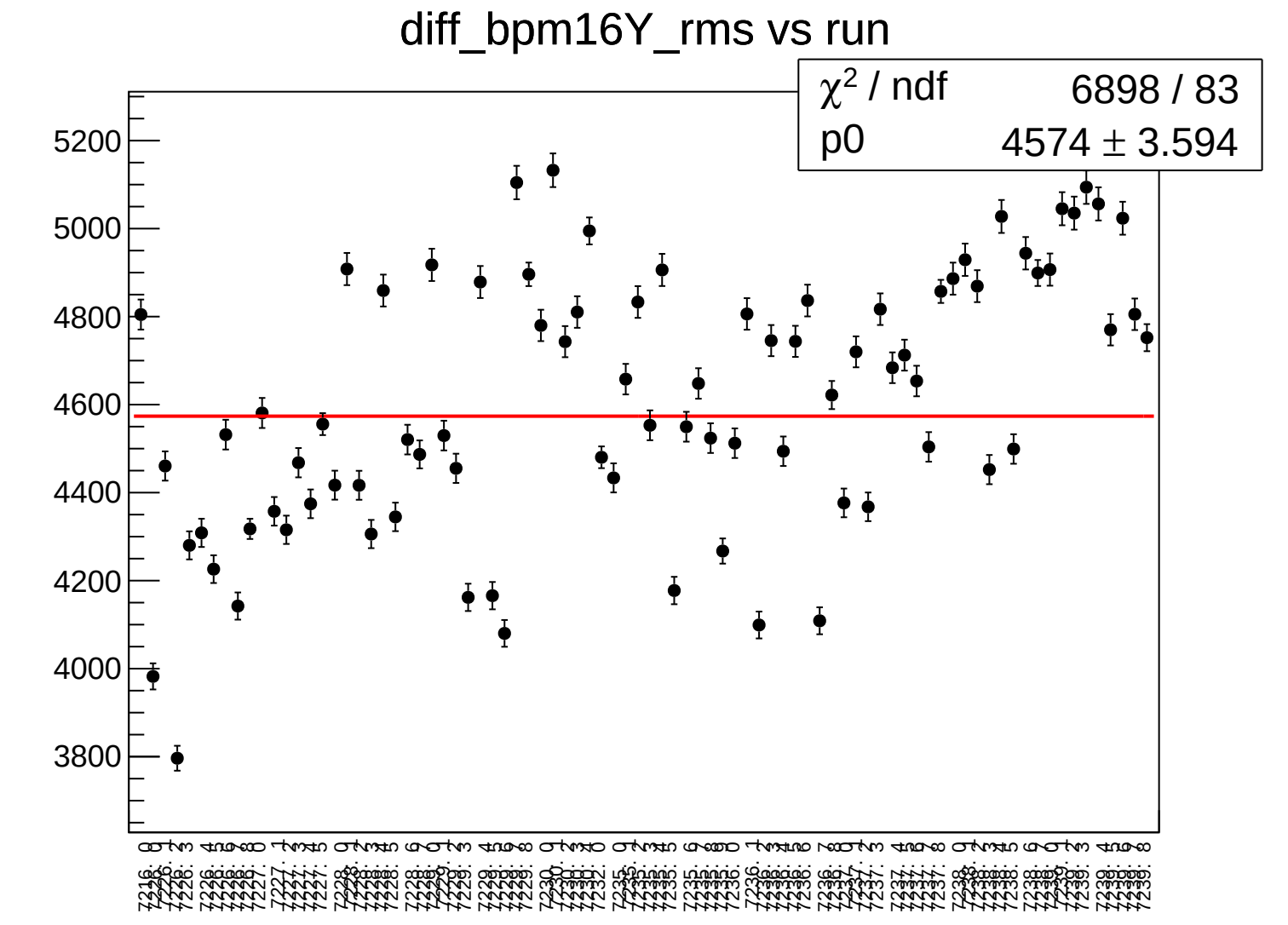

diff_bpm16X_mean vs run
χ² / ndf 80.17 / 83
p0 13.22 ± 6.075
pull
Entries 84
Mean 208.9
Std Dev 0

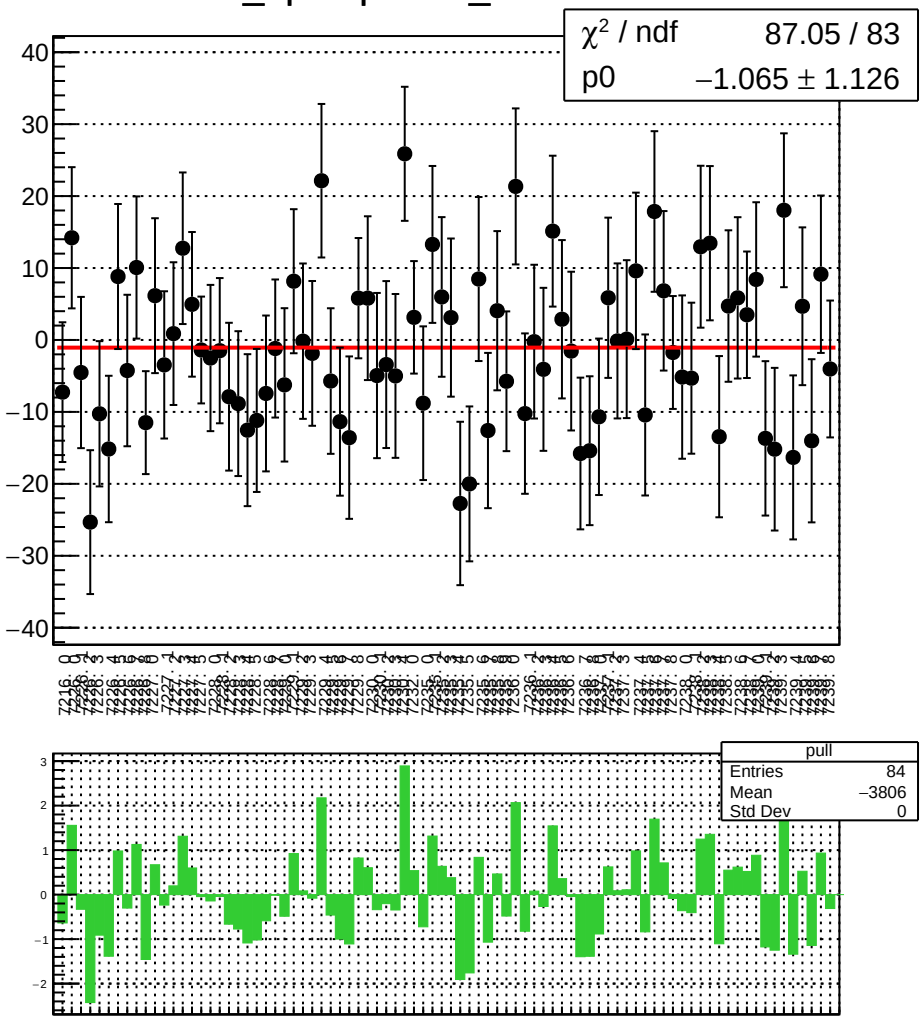

pull1D
Entries 84
Mean 0.004102
Std Dev 0.9769

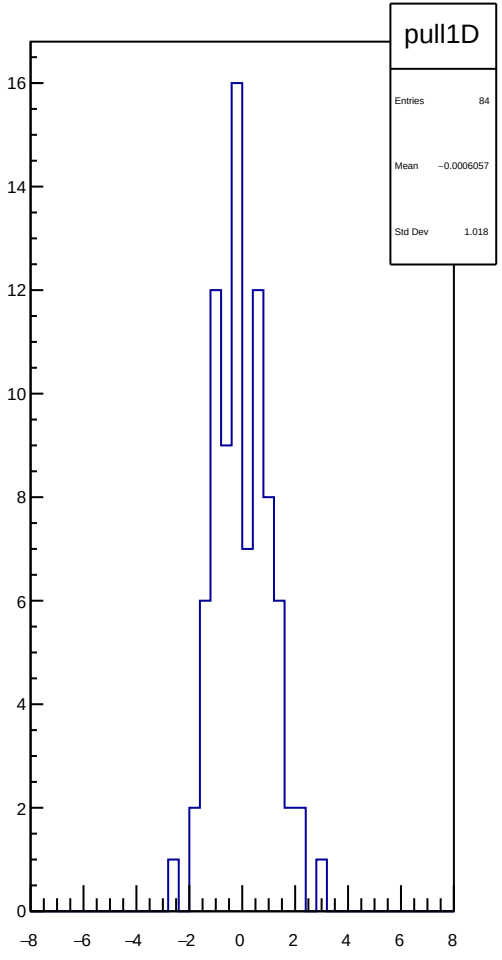

diff_bpm16X_rms vs run
χ² / ndf 8129 / 83
p0 5465 ± 4.296
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800

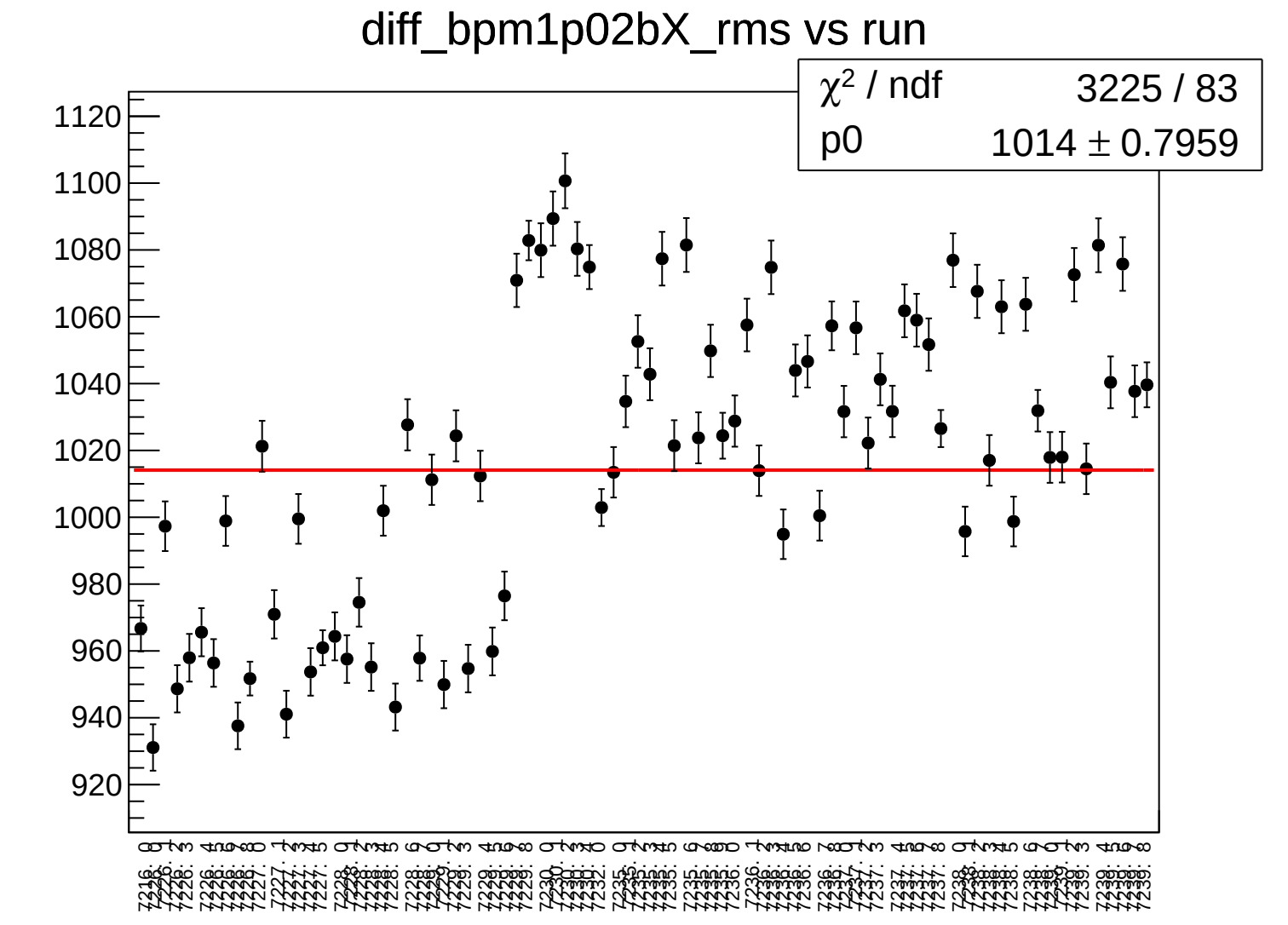

diff_bpm16Y_mean vs run
χ^2 / ndf 69.58 / 83
p0 5.132 ± 5.082
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −424.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

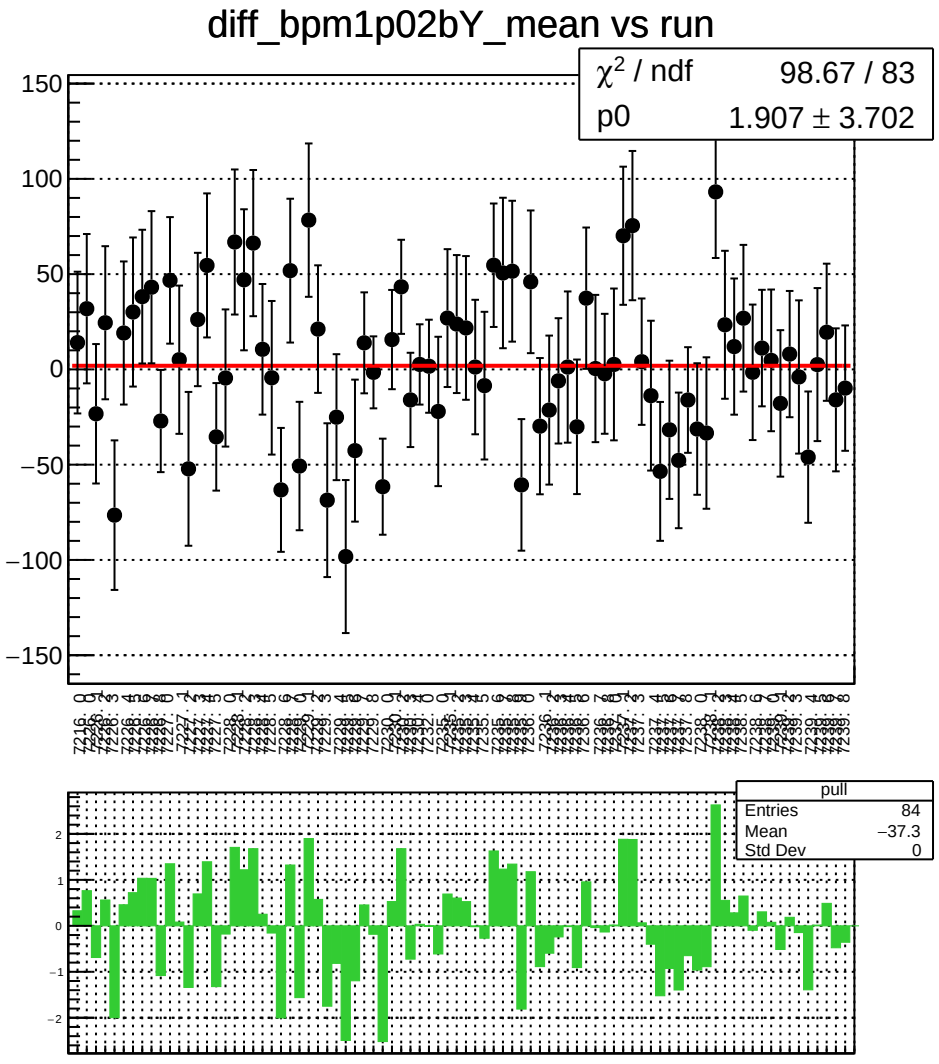

pull1D
Entries 84
Mean −0.002849
Std Dev 0.9101
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

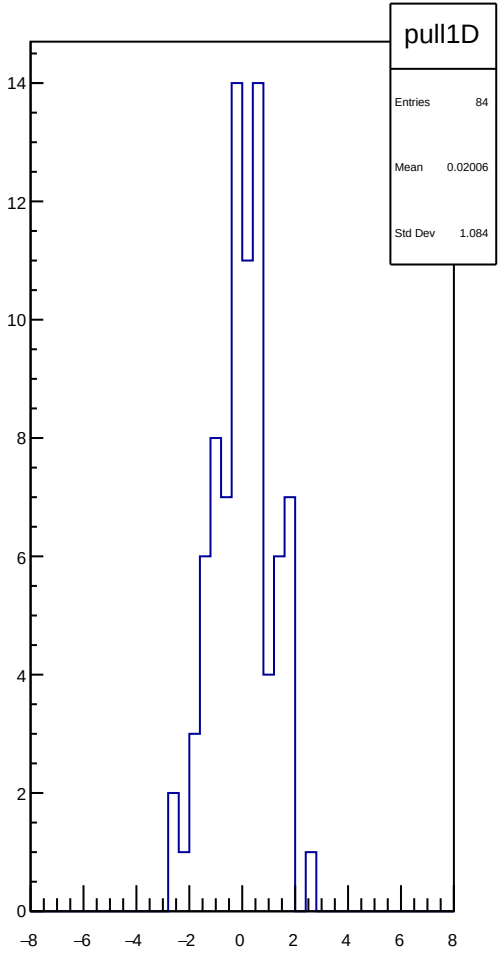

diff_bpm16Y_rms vs run
χ^2 / ndf 6898 / 83
p0 4574 ± 3.594
5200
5000
4800
4600
4400
4200
4000
3800

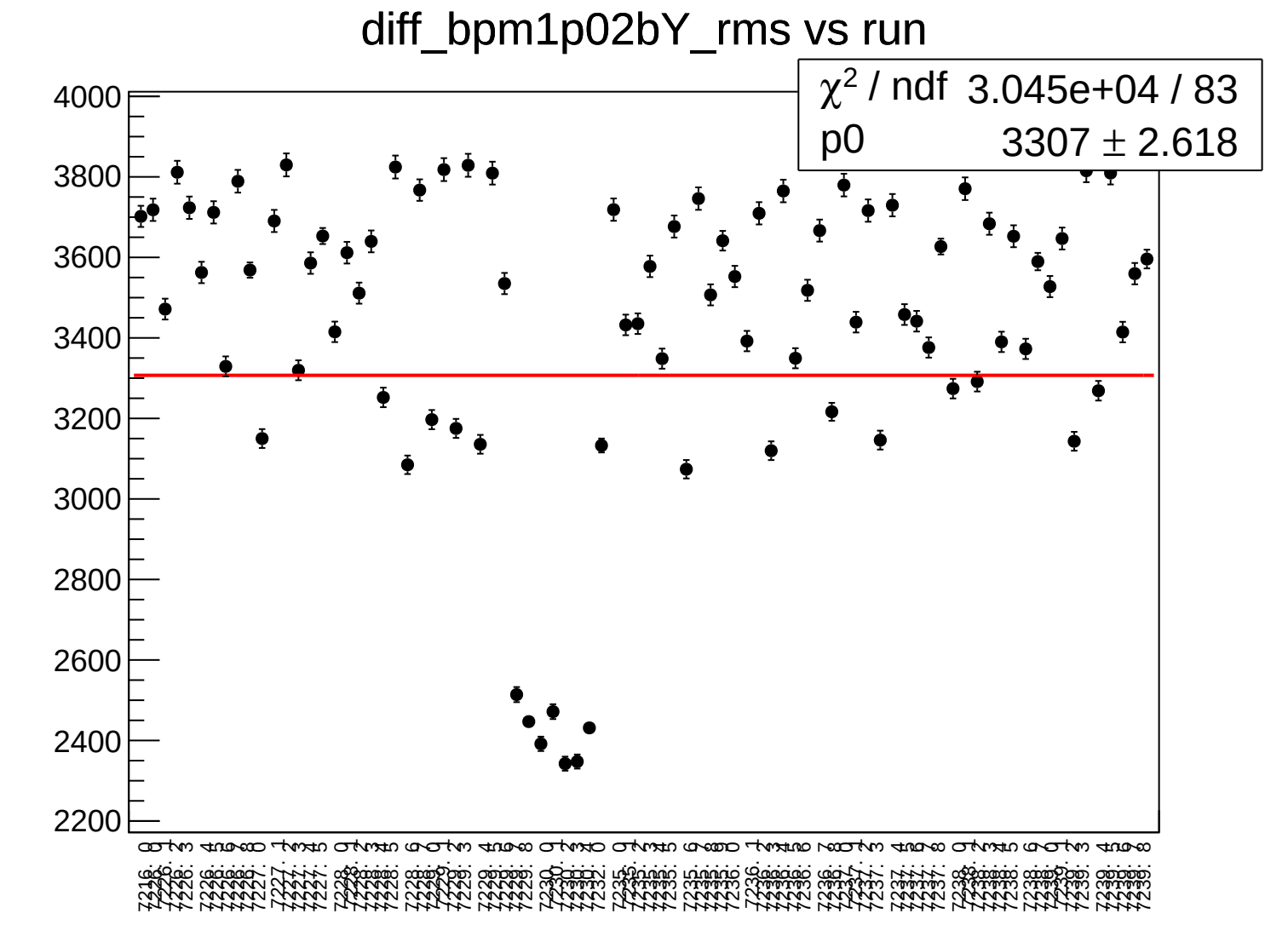

diff_bpm1p02bX_mean vs run
χ² / ndf 87.05 / 83
p0 −1.065 ± 1.126
pull
Entries 84
Mean −3806
Std Dev 0

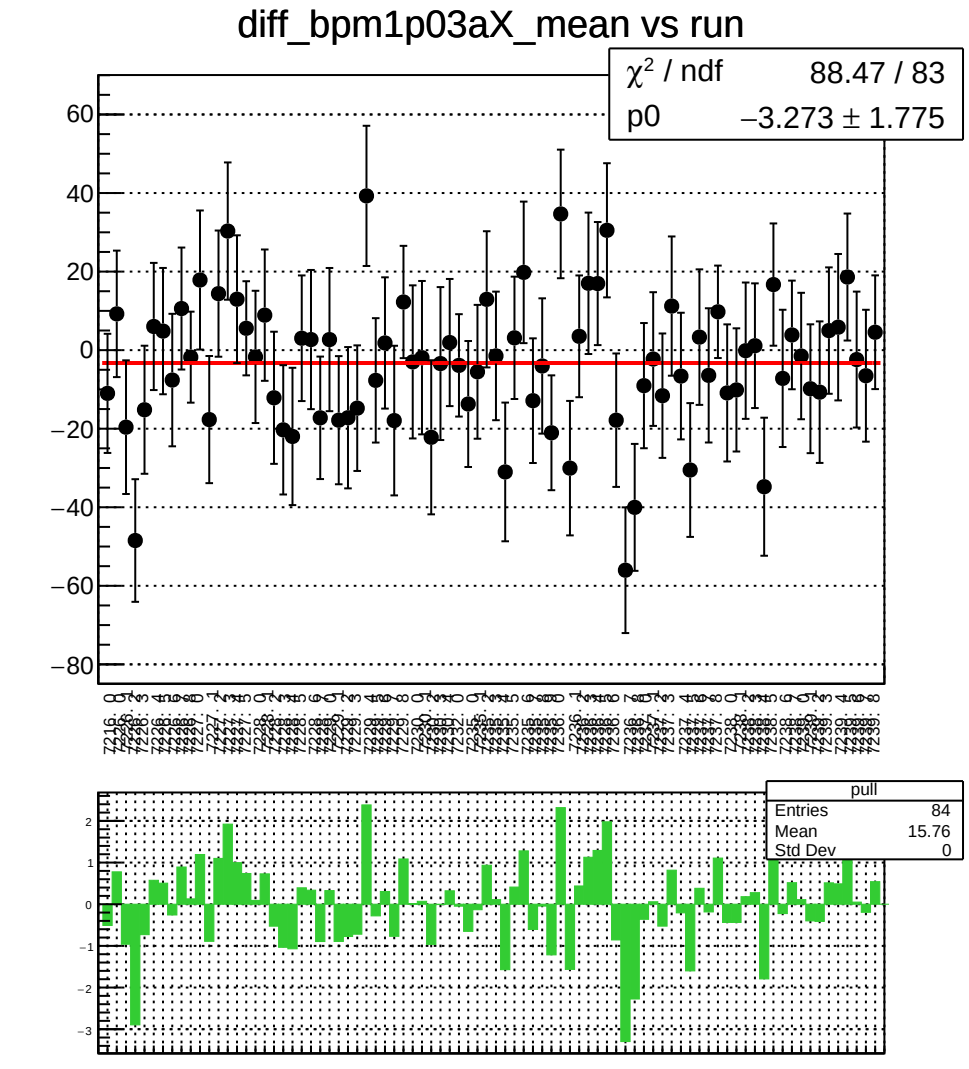

pull1D
Entries 84
Mean −0.0006057
Std Dev 1.018

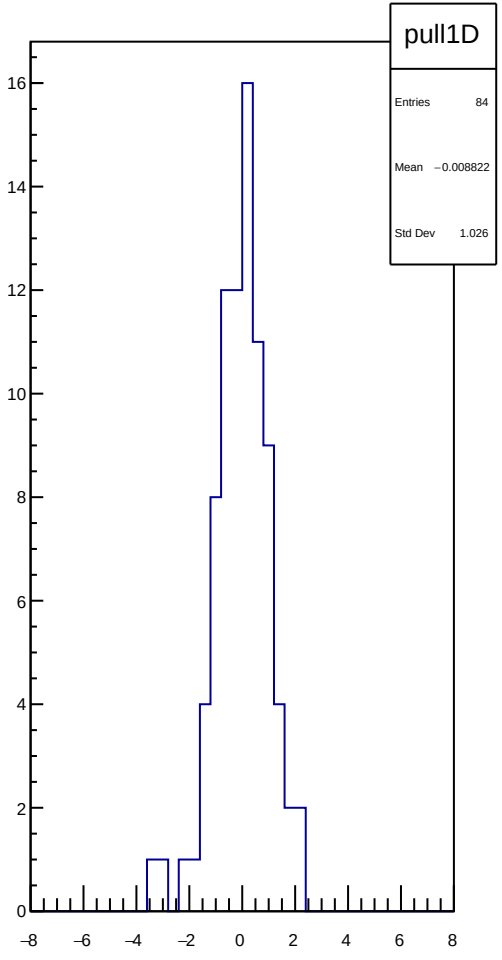

diff_bpm1p02bX_rms vs run
χ² / ndf 3225 / 83
p0 1014 ± 0.7959
1120
1100
1080
1060
1040
1020
1000
980
960
940
920

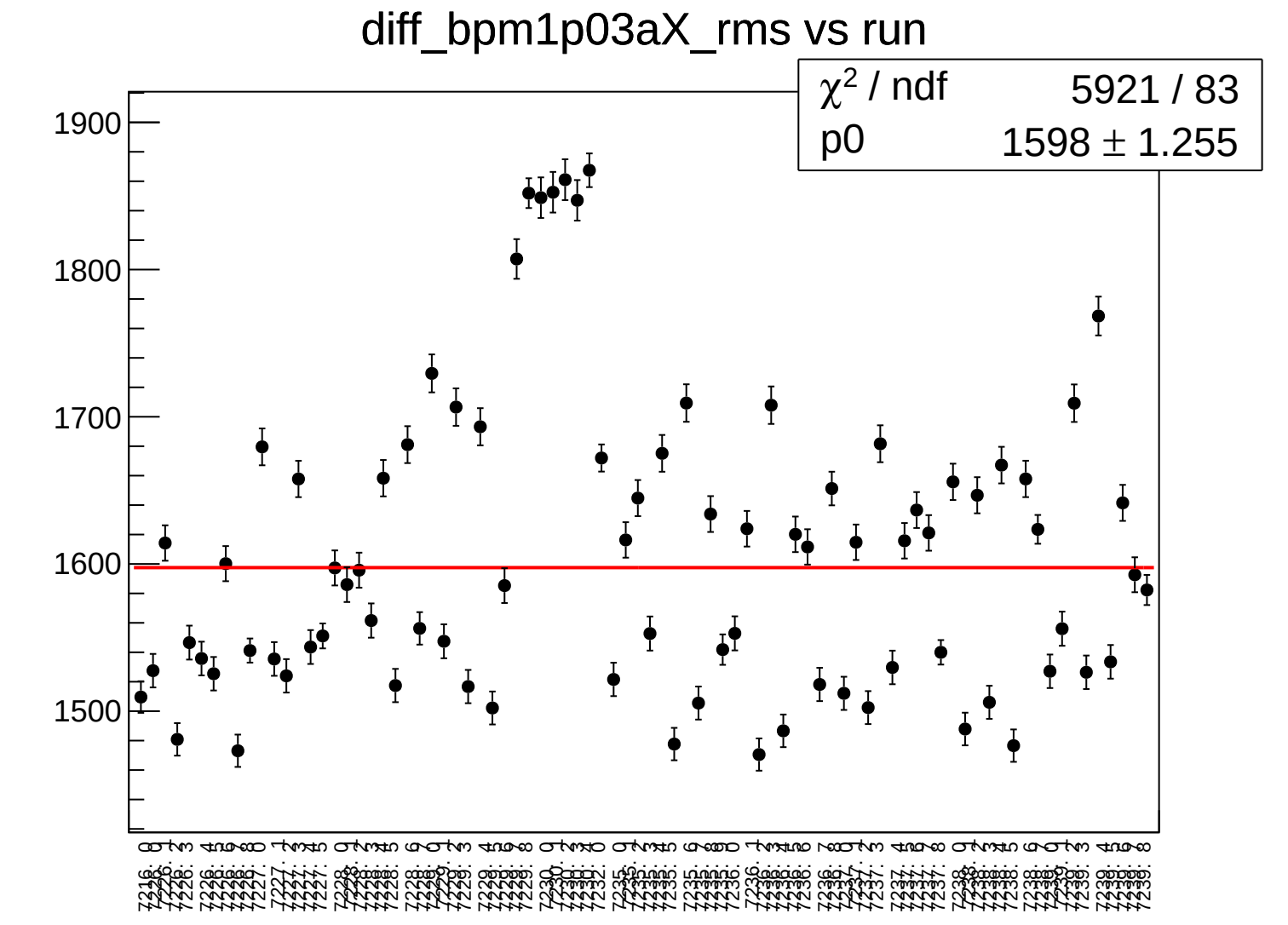

diff_bpm1p02bY_mean vs run
χ^2 / ndf 98.67 / 83
p0 1.907 ± 3.702
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −37.3
Std Dev 0
2
1
0
−1
−2

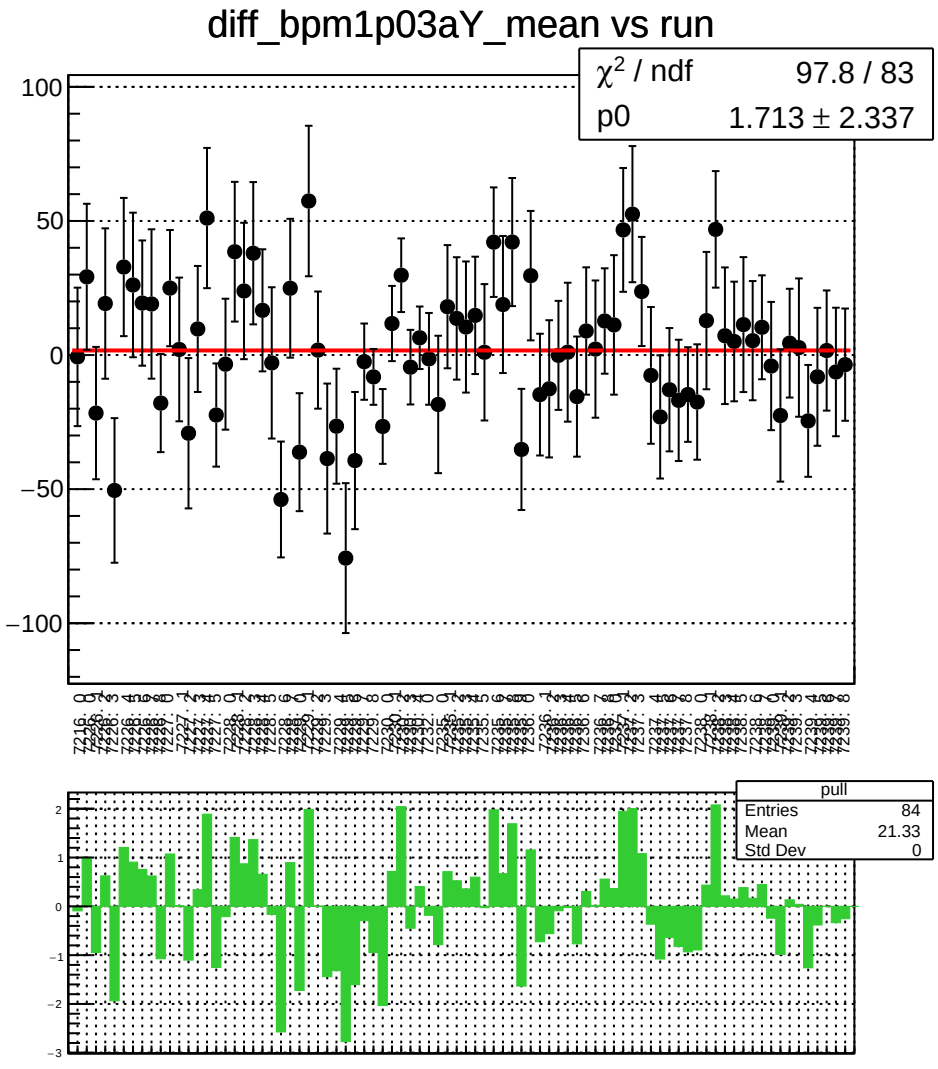

pull1D
Entries 84
Mean 0.02006
Std Dev 1.084
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

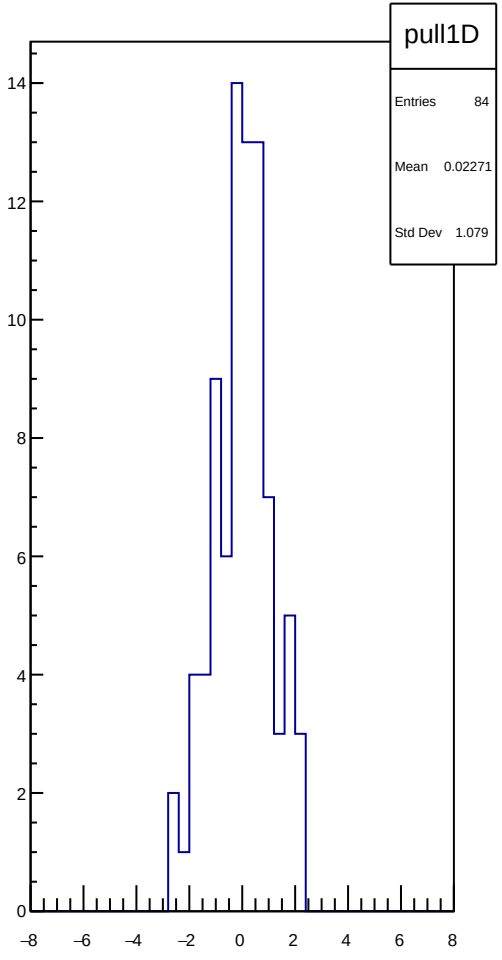

diff_bpm1p02bY_rms vs run
χ² / ndf 3.045e+04 / 83
p0 3307 ± 2.618
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200

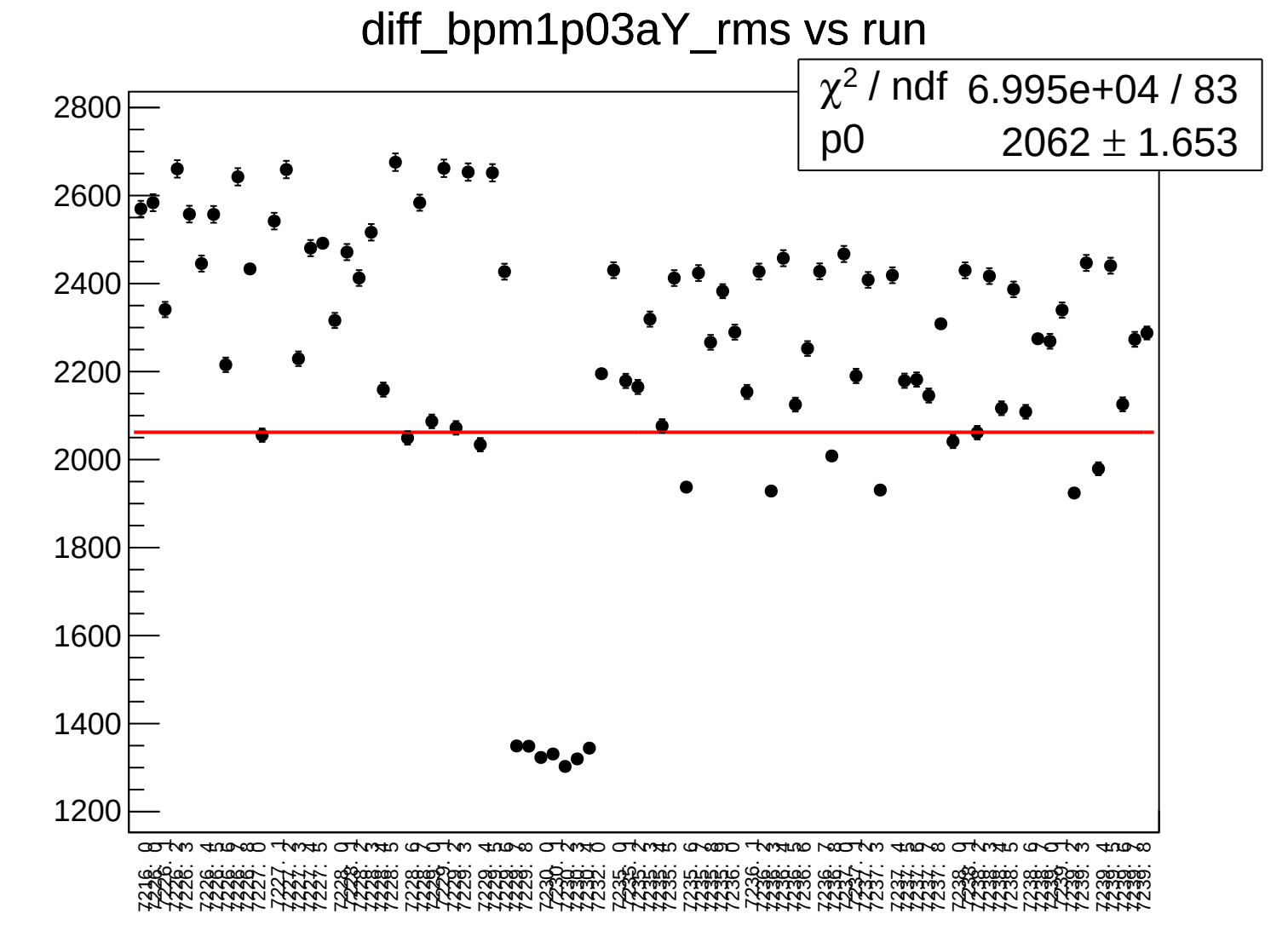

diff_bpm1p03aX_mean vs run
χ² / ndf 88.47 / 83
p0 −3.273 ± 1.775
pull
Entries 84
Mean 15.76
Std Dev 0

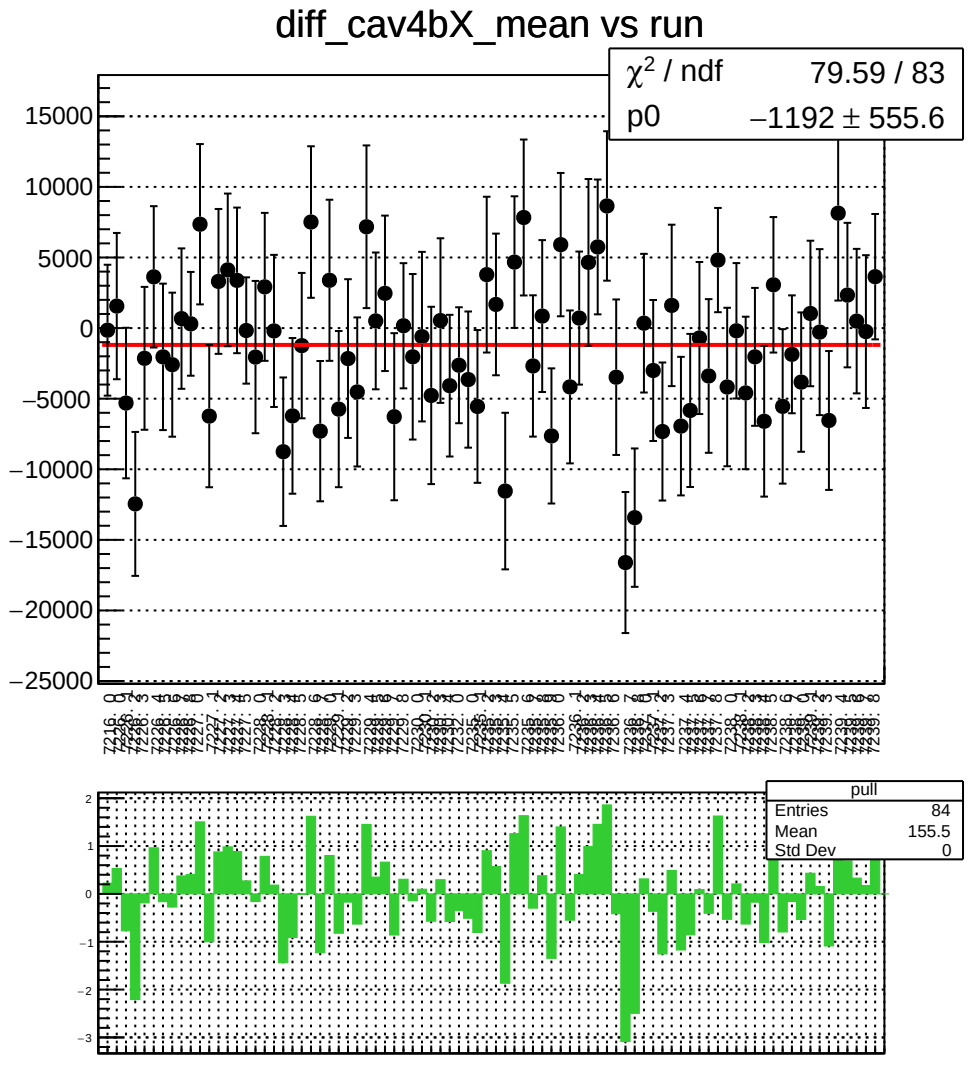

pull1D
Entries 84
Mean −0.008822
Std Dev 1.026

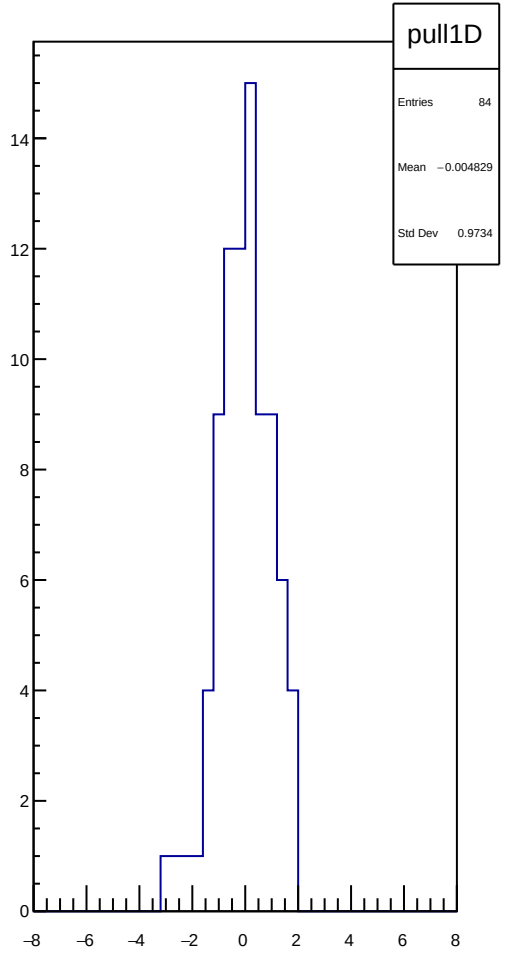

diff_bpm1p03aX_rms vs run
χ^2 / ndf 5921 / 83
p0 1598 ± 1.255
1900
1800
1700
1600
1500

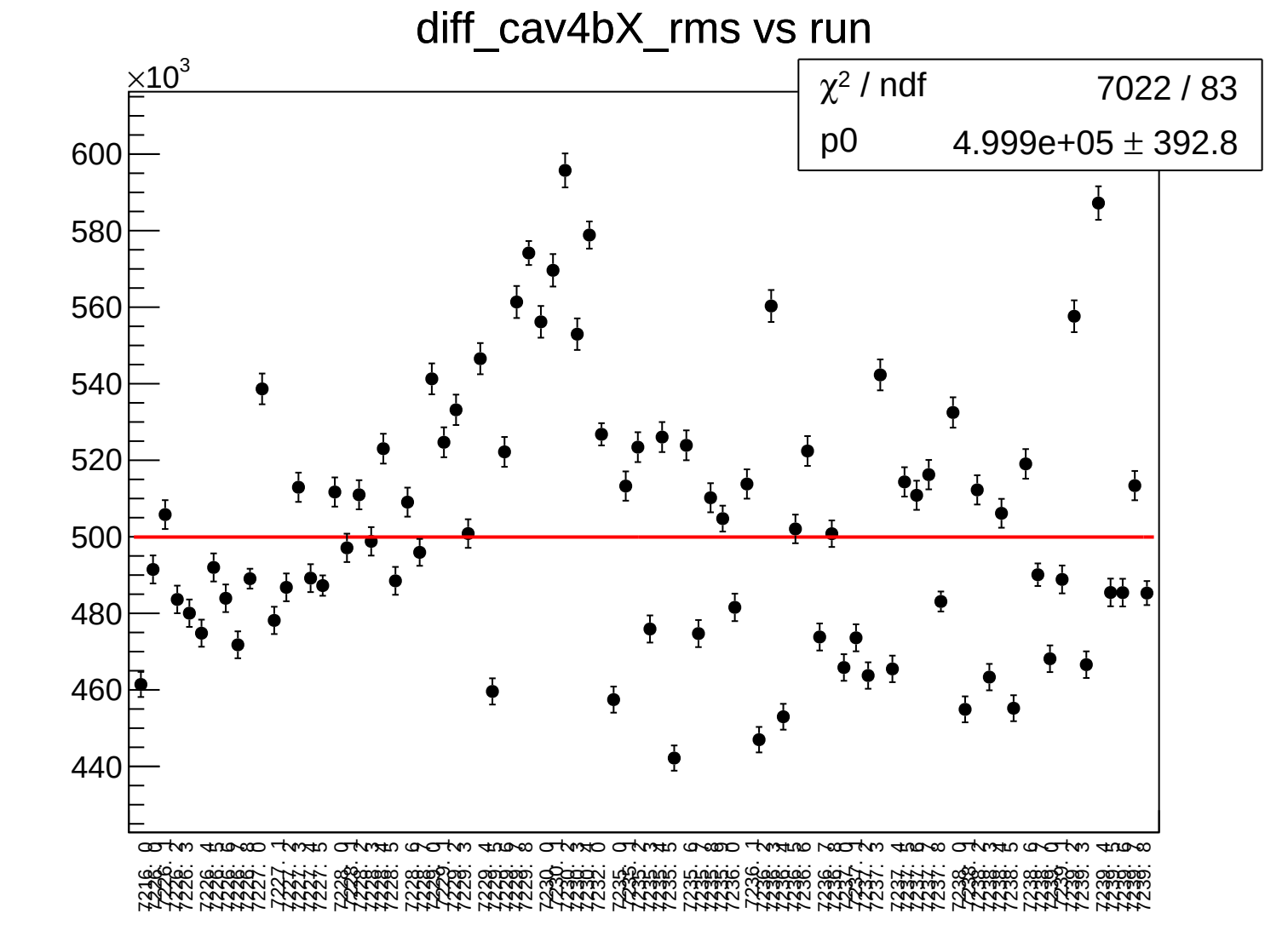

diff_bpm1p03aY_mean vs run
χ^2 / ndf 97.8 / 83
p0 1.713 ± 2.337
pull
Entries 84
Mean 21.33
Std Dev 0

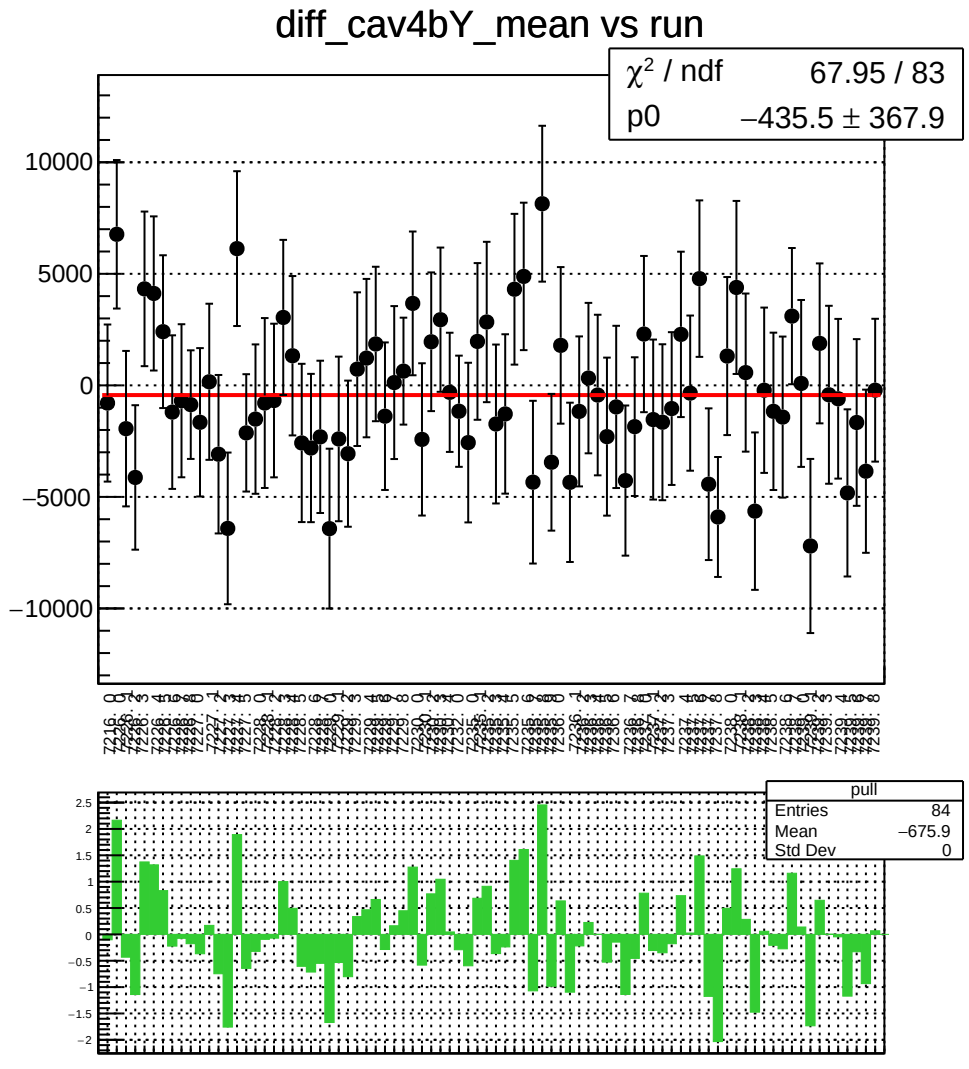

pull1D
Entries 84
Mean 0.02271
Std Dev 1.079

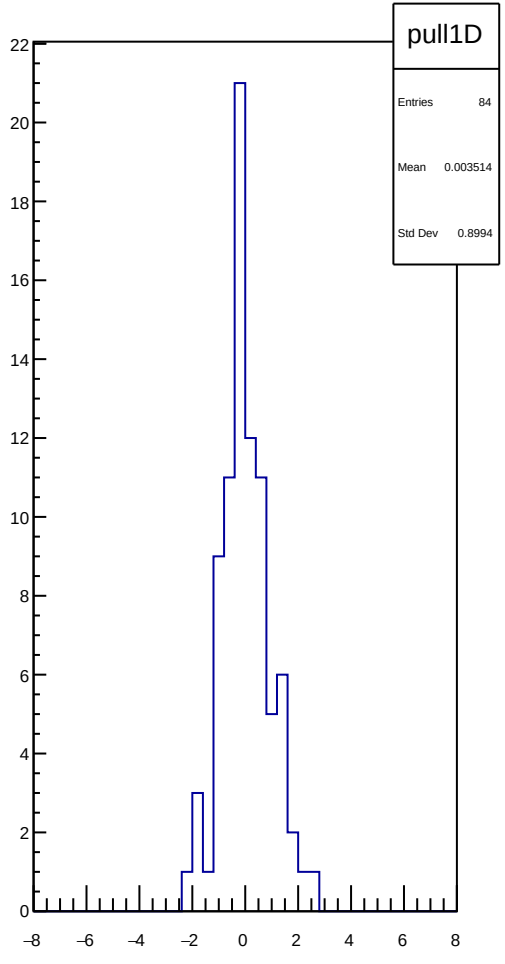

diff_bpm1p03aY_rms vs run
χ² / ndf 6.995e+04 / 83
p0 2062 ± 1.653
2800
2600
2400
2200
2000
1800
1600
1400
1200

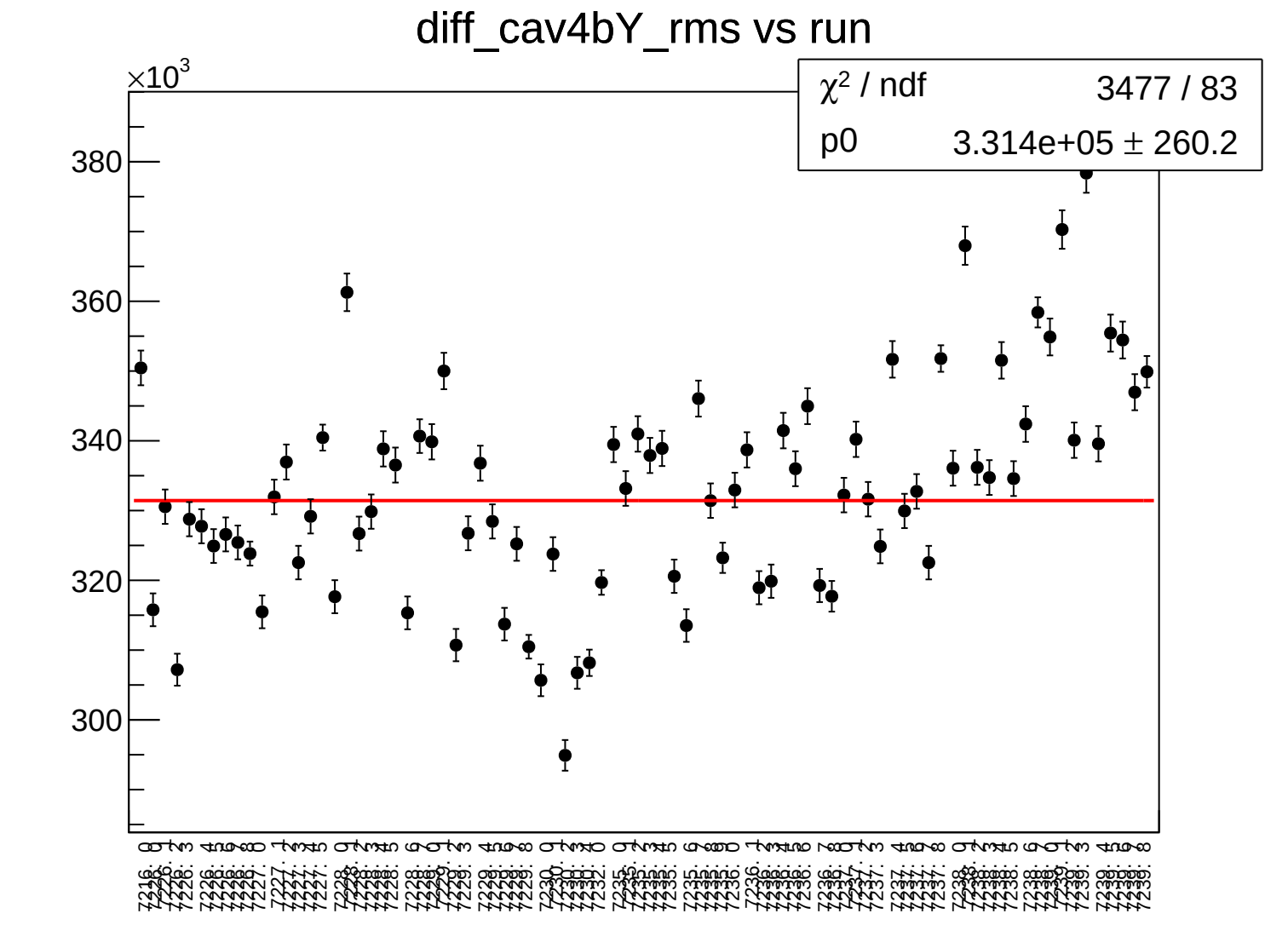

diff_cav4bX_mean vs run
χ² / ndf 79.59 / 83
p0 −1192 ± 555.6
pull
Entries 84
Mean 155.5
Std Dev 0

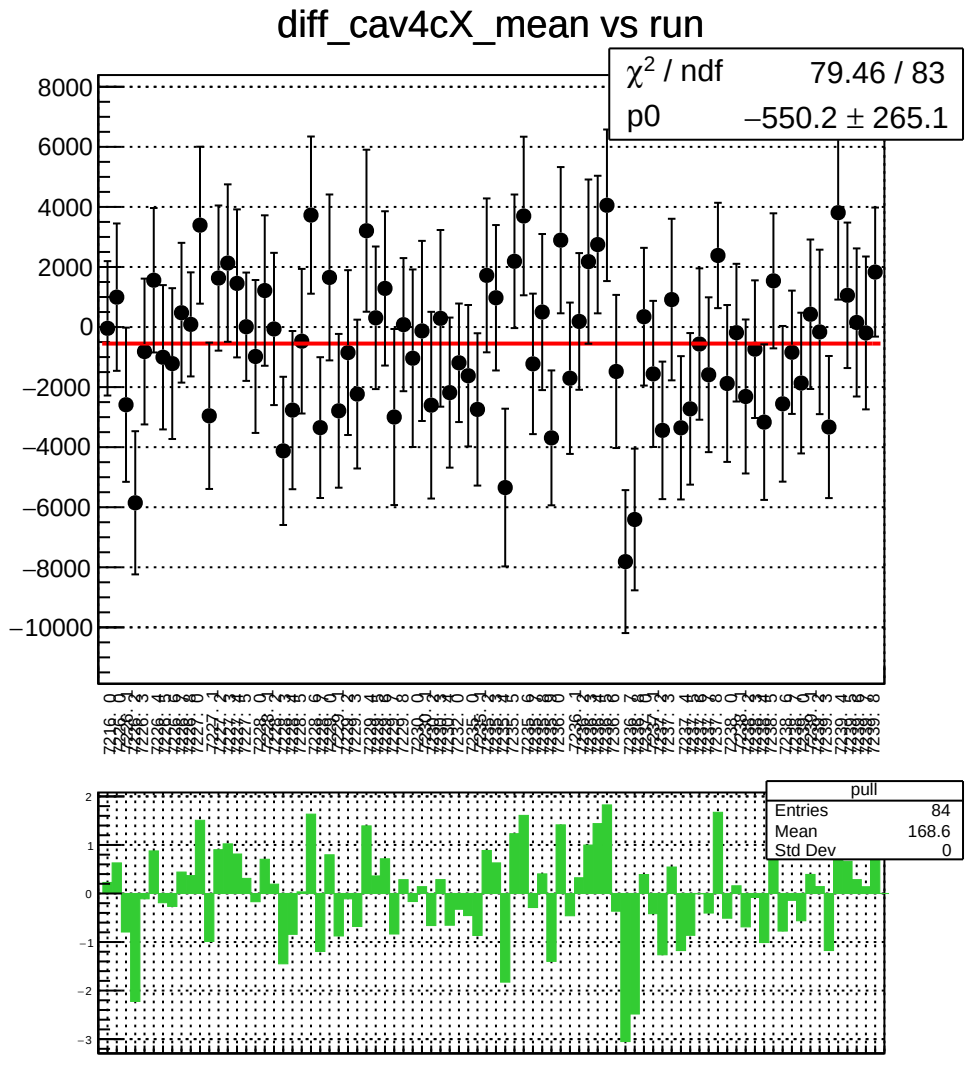

pull1D
Entries 84
Mean −0.004829
Std Dev 0.9734

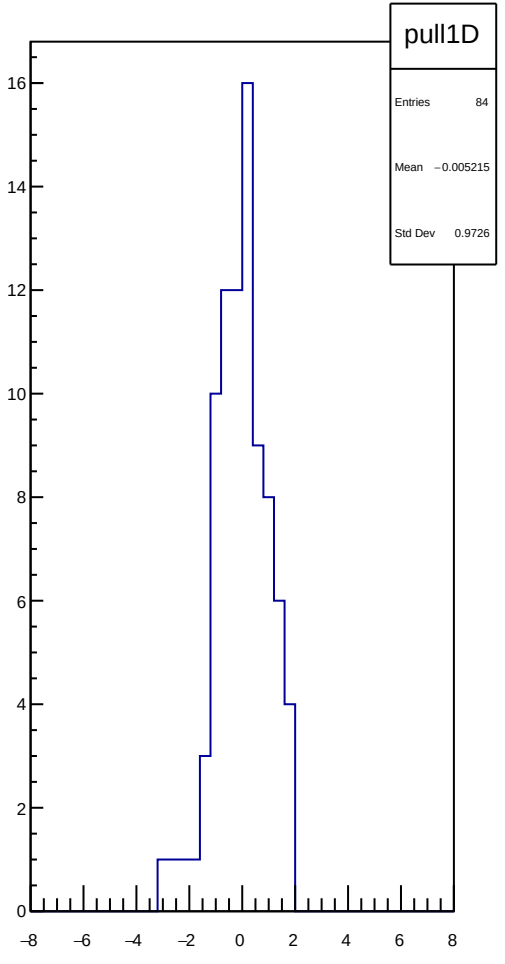

diff_cav4bX_rms vs run
×10^3
χ² / ndf 7022 / 83
p0 4.999e+05 ± 392.8
600
580
560
540
520
500
480
460
440

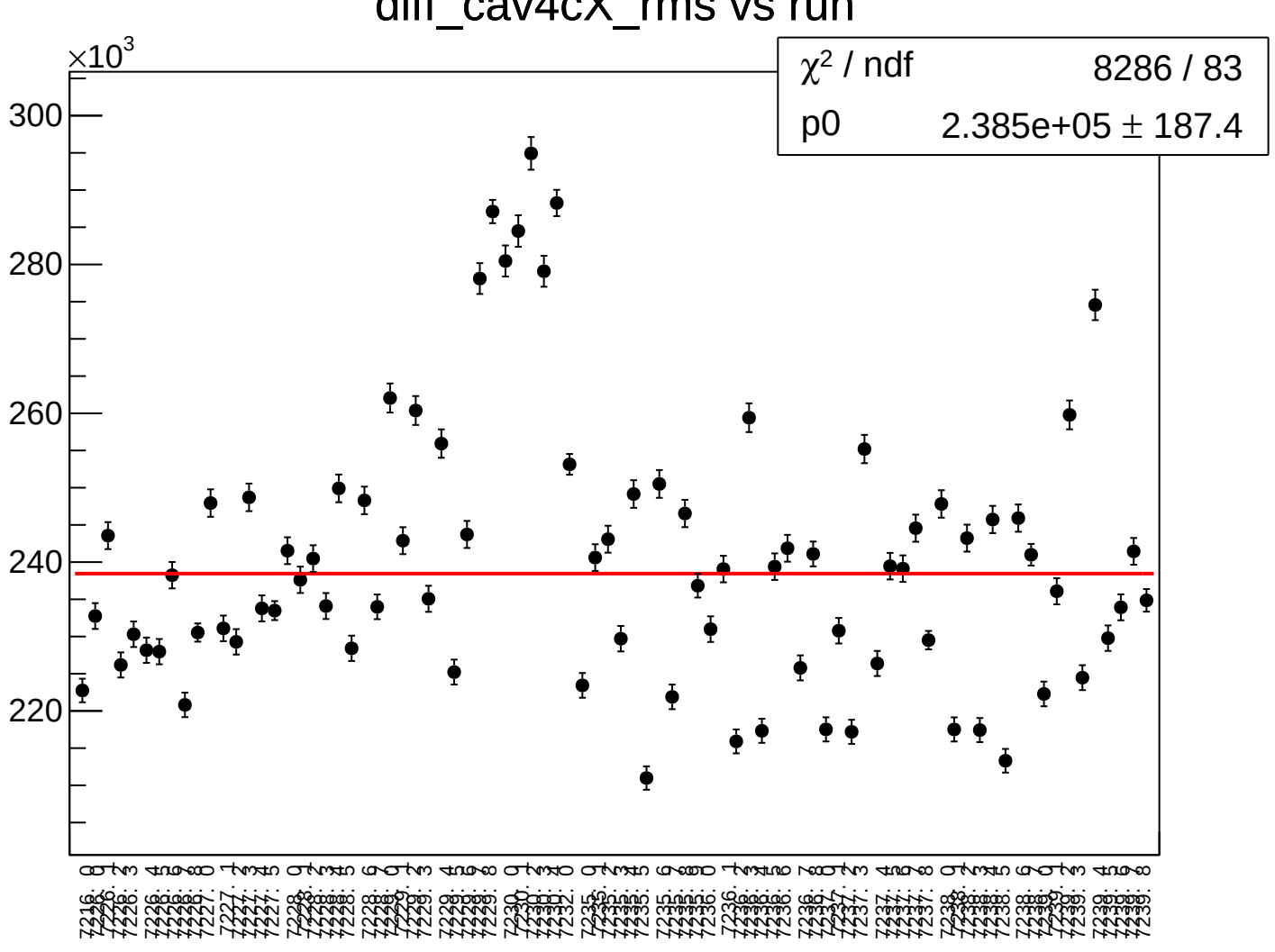

diff_cav4bY_mean vs run
χ² / ndf 67.95 / 83
p0 −435.5 ± 367.9
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −675.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

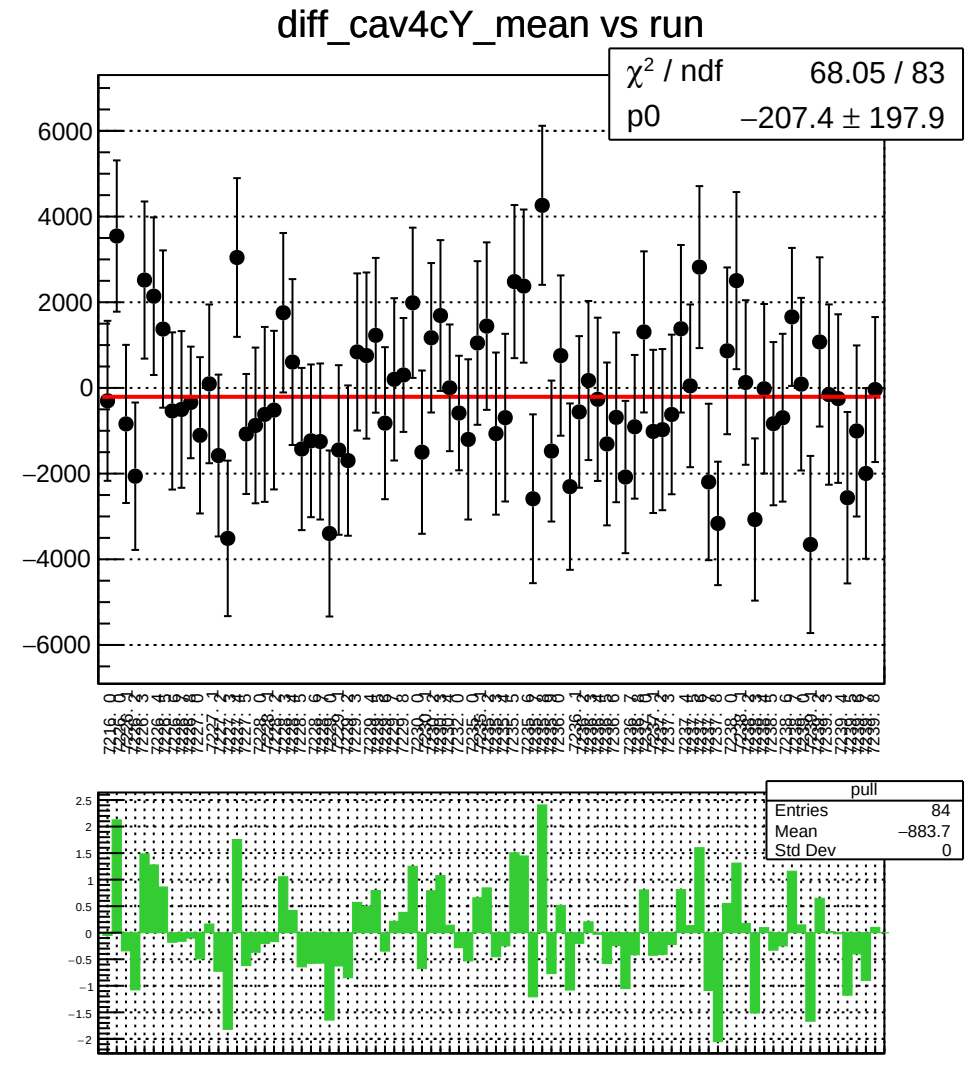

pull1D
Entries 84
Mean 0.003514
Std Dev 0.8994
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

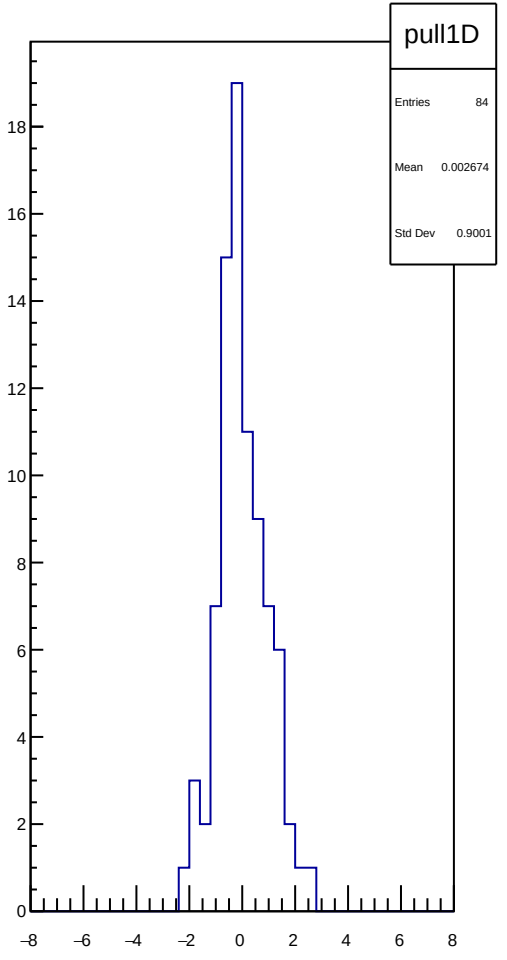

diff_cav4bY_rms vs run
×10^3
χ² / ndf 3477 / 83
p0 3.314e+05 ± 260.2
380
360
340
320
300

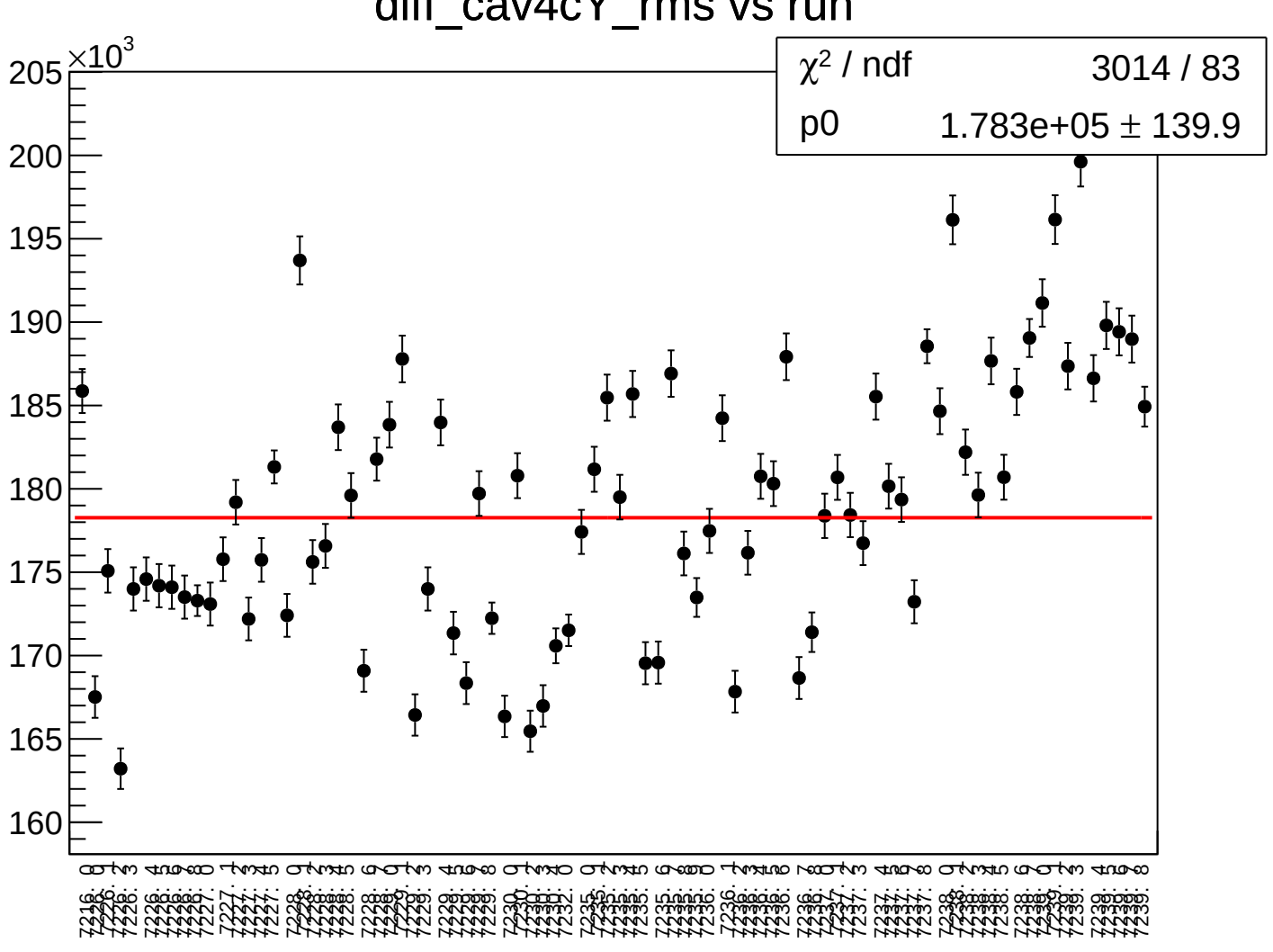

diff_cav4cX_mean vs run
χ² / ndf 79.46 / 83
p0 −550.2 ± 265.1
pull
Entries 84
Mean 168.6
Std Dev 0

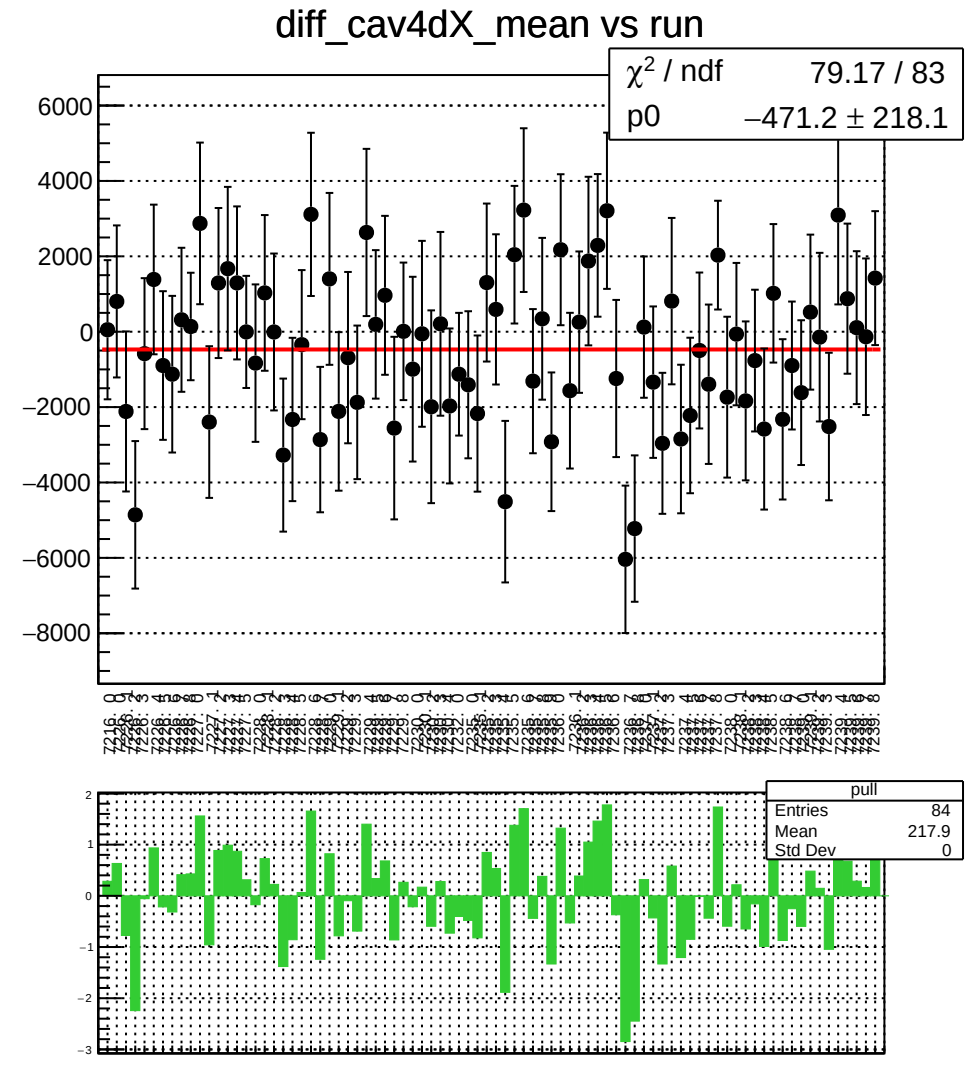

pull1D
Entries 84
Mean −0.005215
Std Dev 0.9726

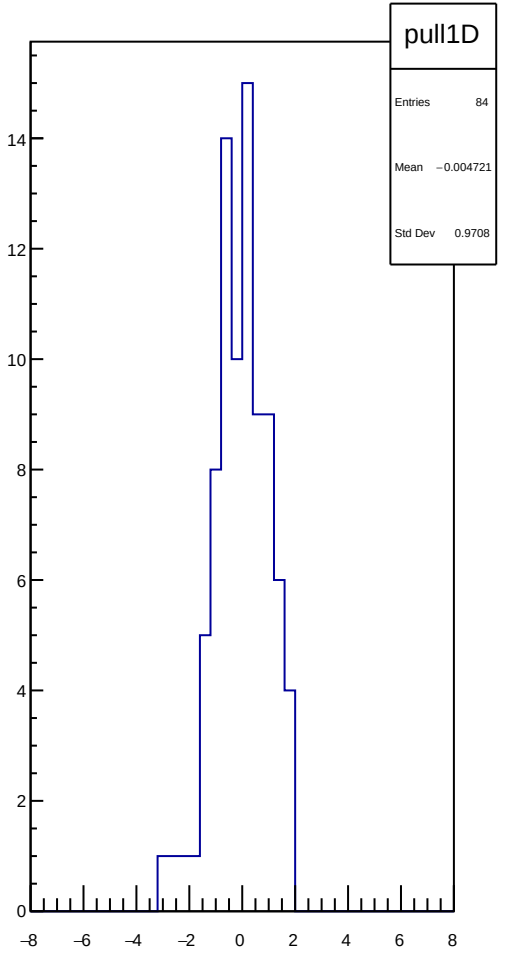

diff_cav4cX_rms vs run
×10^3
300
280
260
240
220
χ² / ndf 8286 / 83
p0 2.385e+05 ± 187.4

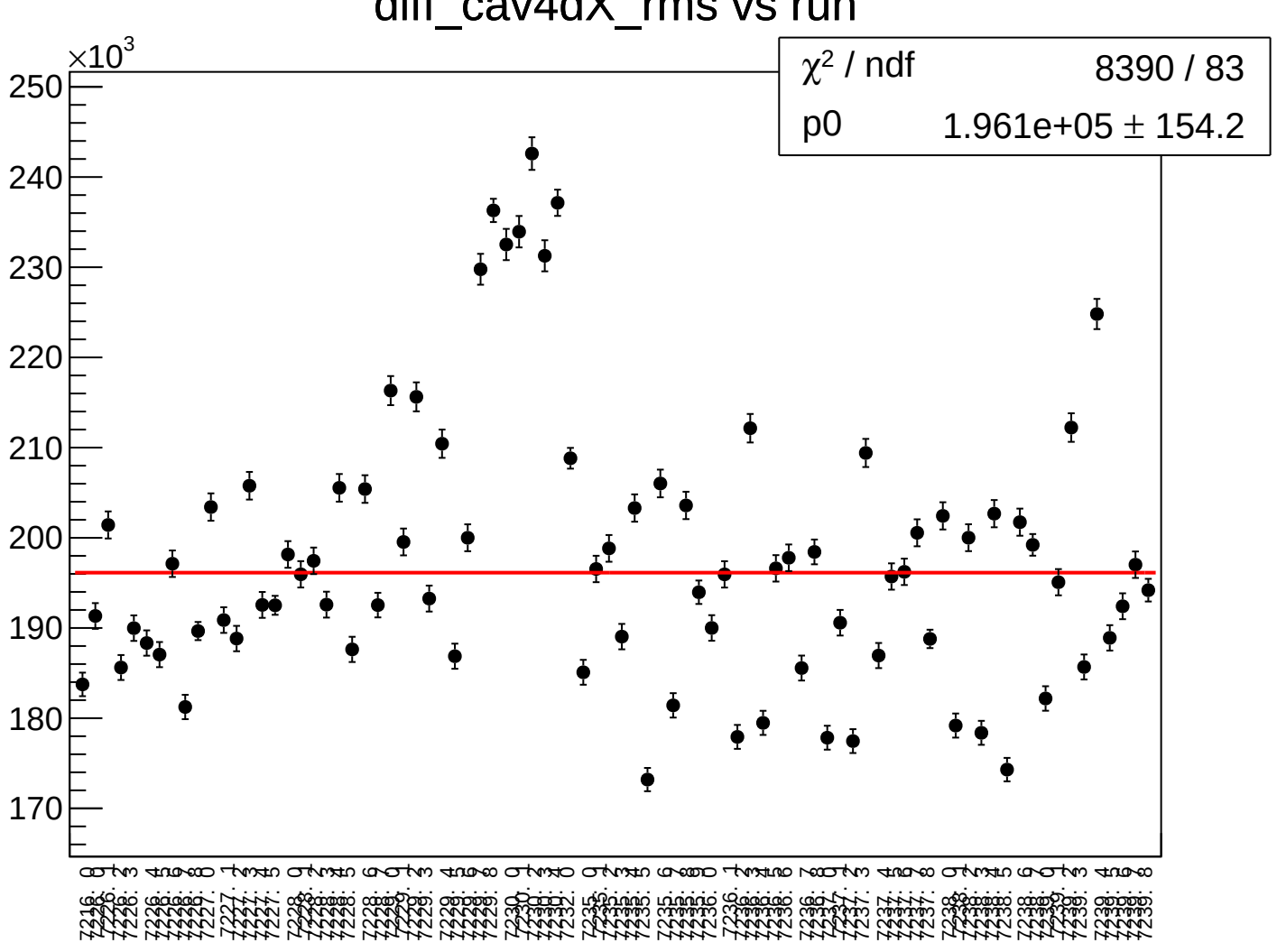

diff_cav4cY_mean vs run
χ² / ndf 68.05 / 83
p0 −207.4 ± 197.9
pull
Entries 84
Mean −883.7
Std Dev 0

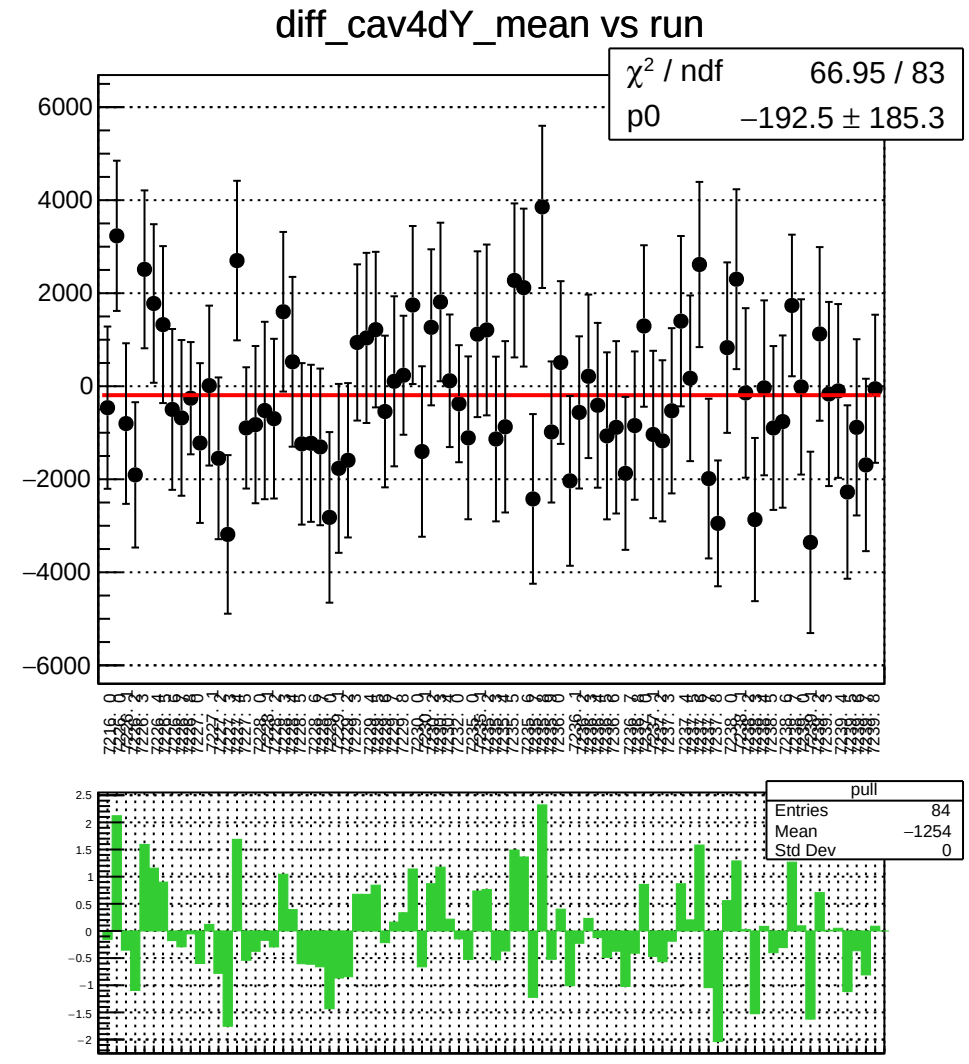

pull1D
Entries 84
Mean 0.002674
Std Dev 0.9001

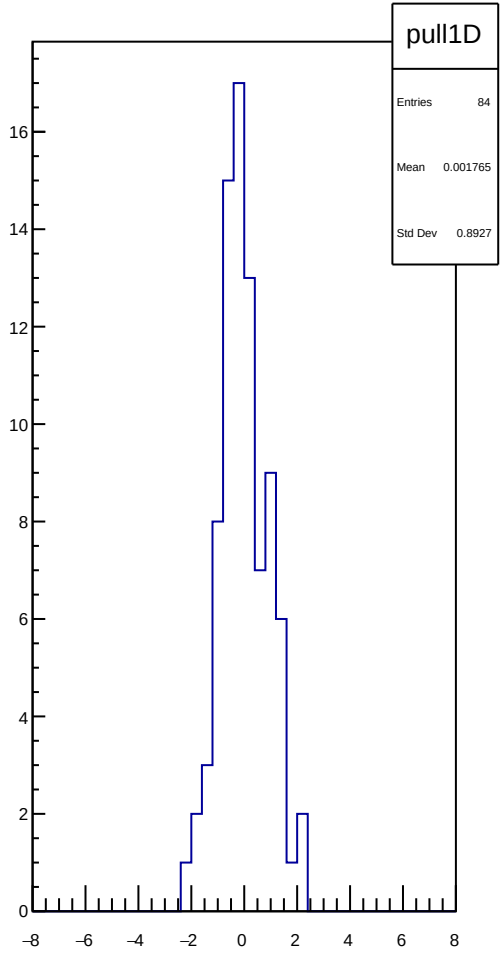

diff_cav4cY_rms vs run
χ² / ndf 3014 / 83
p0 1.783e+05 ± 139.9
×10³
205
200
195
190
185
180
175
170
165
160

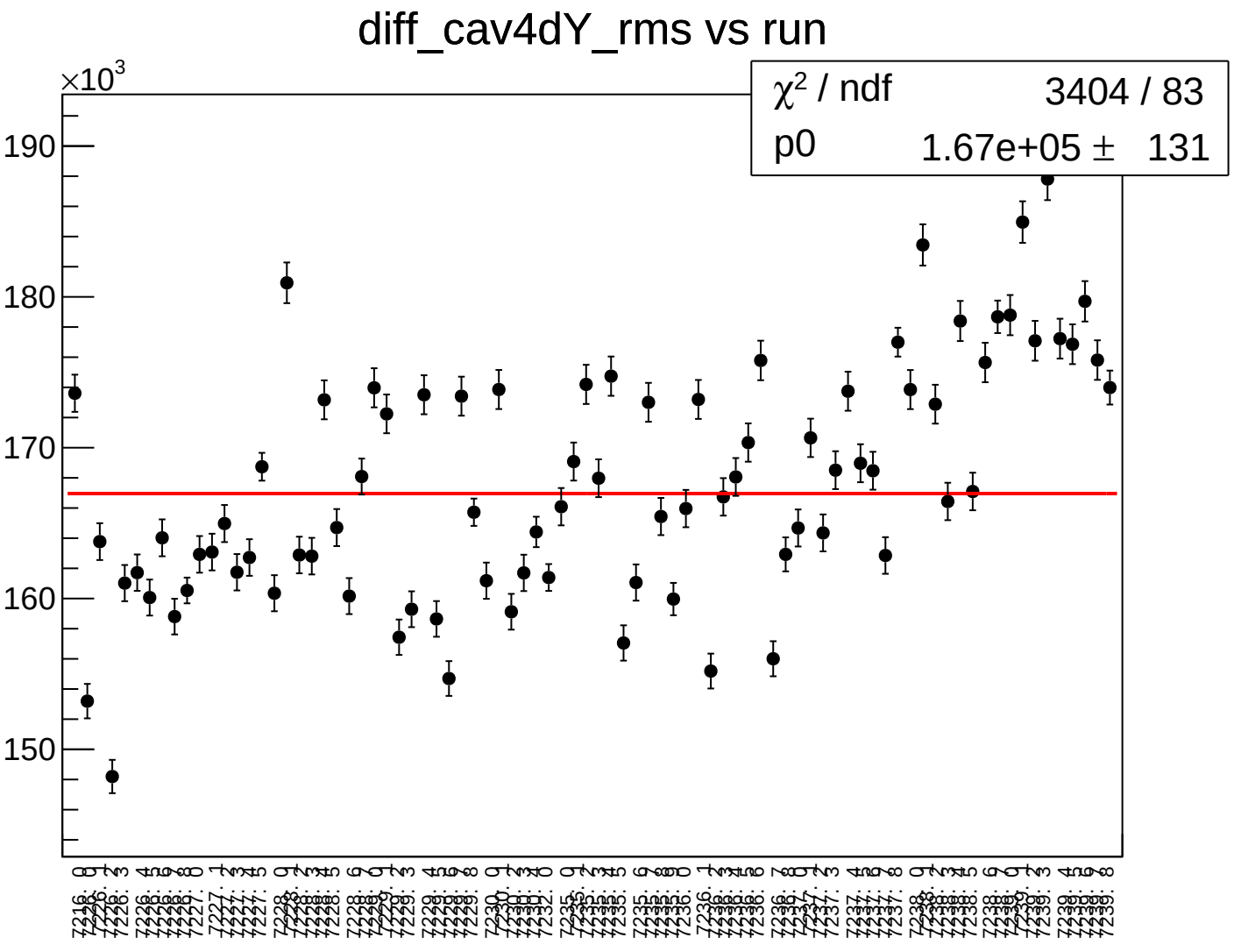

diff_cav4dX_mean vs run
χ² / ndf 79.17 / 83
p0 −471.2 ± 218.1
pull
Entries 84
Mean 217.9
Std Dev 0

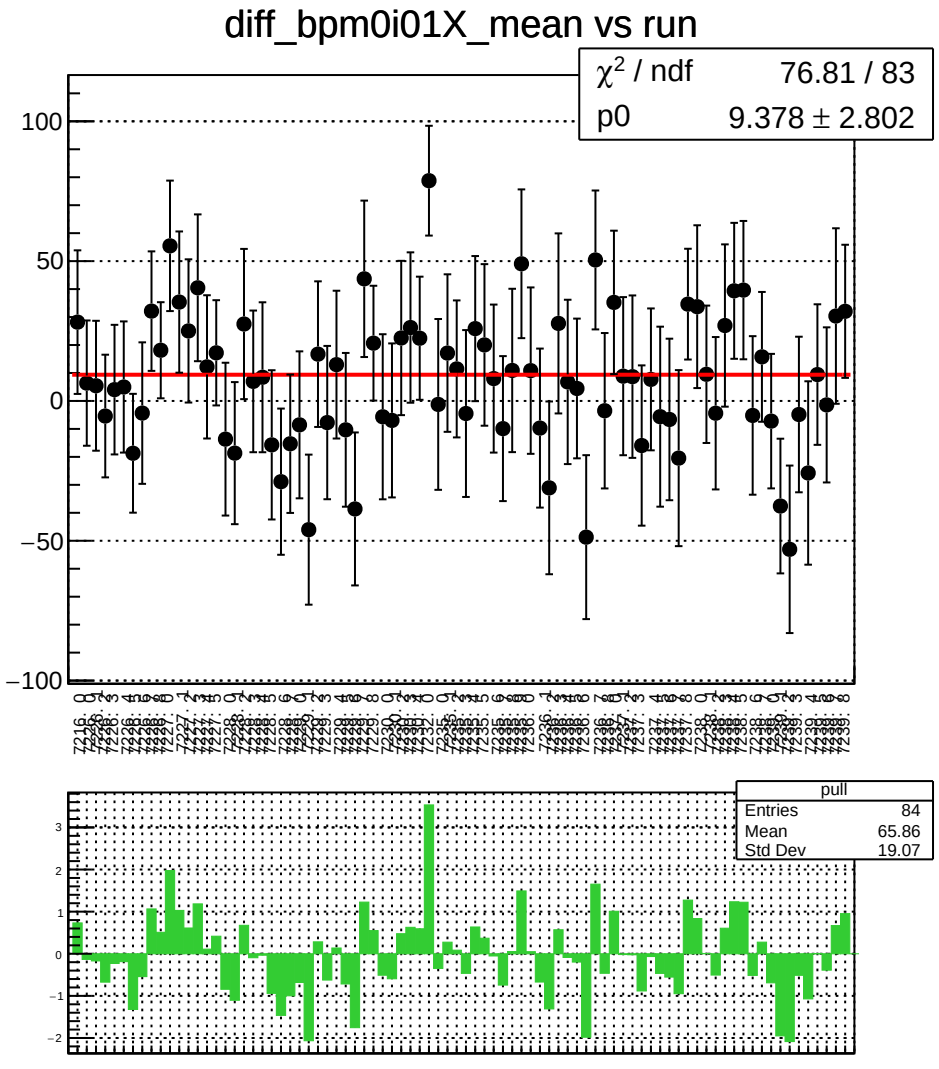

pull1D
Entries 84
Mean −0.004721
Std Dev 0.9708

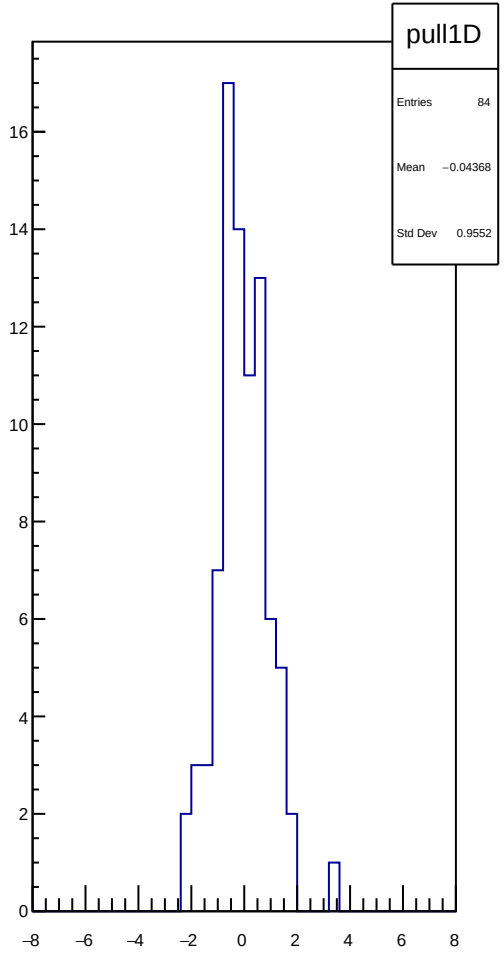

diff_cav4dX_rms vs run
×10^3
250
240
230
220
210
200
190
180
170
χ² / ndf 8390 / 83
p0 1.961e+05 ± 154.2

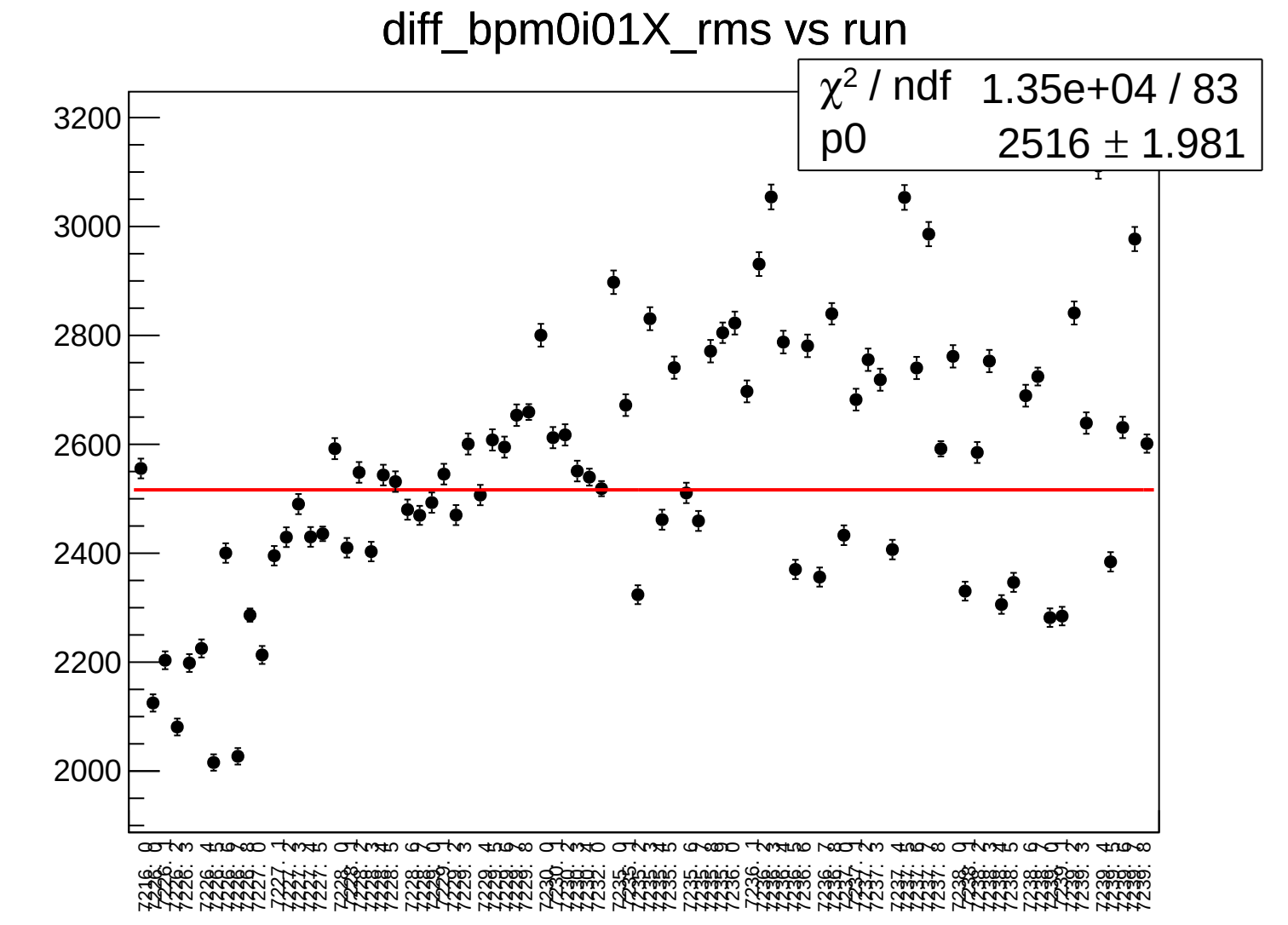

diff_cav4dY_mean vs run
χ² / ndf 66.95 / 83
p0 −192.5 ± 185.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 84
Mean −1254
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

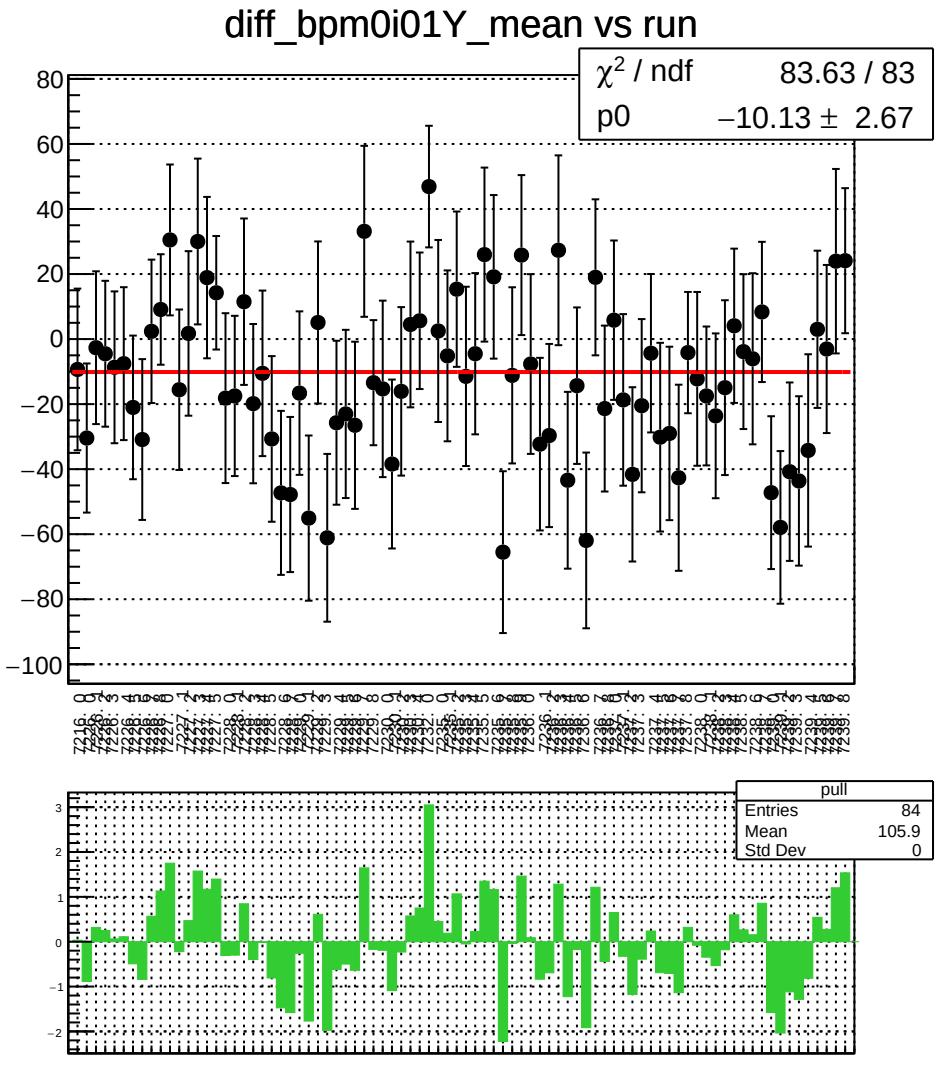

pull1D
Entries 84
Mean 0.001765
Std Dev 0.8927
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

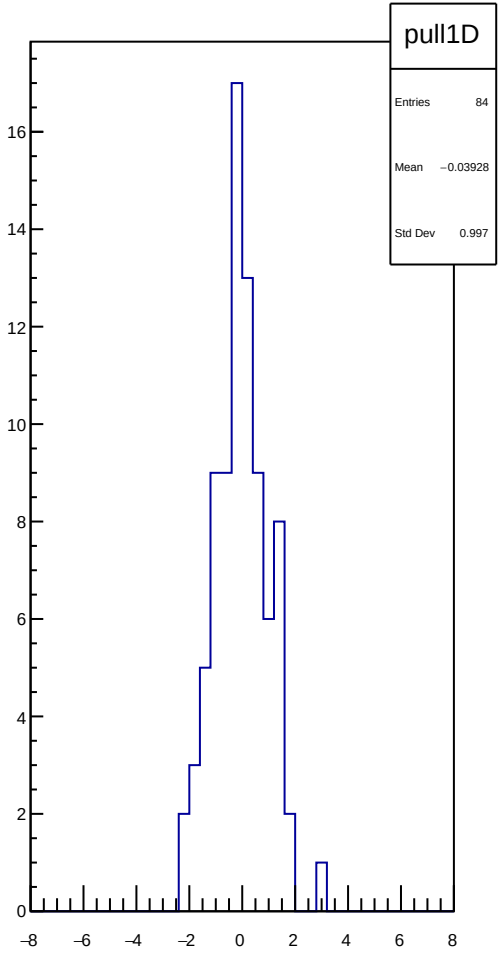

diff_cav4dY_rms vs run
×10^3
190
180
170
160
150
χ² / ndf 3404 / 83
p0 1.67e+05 ± 131

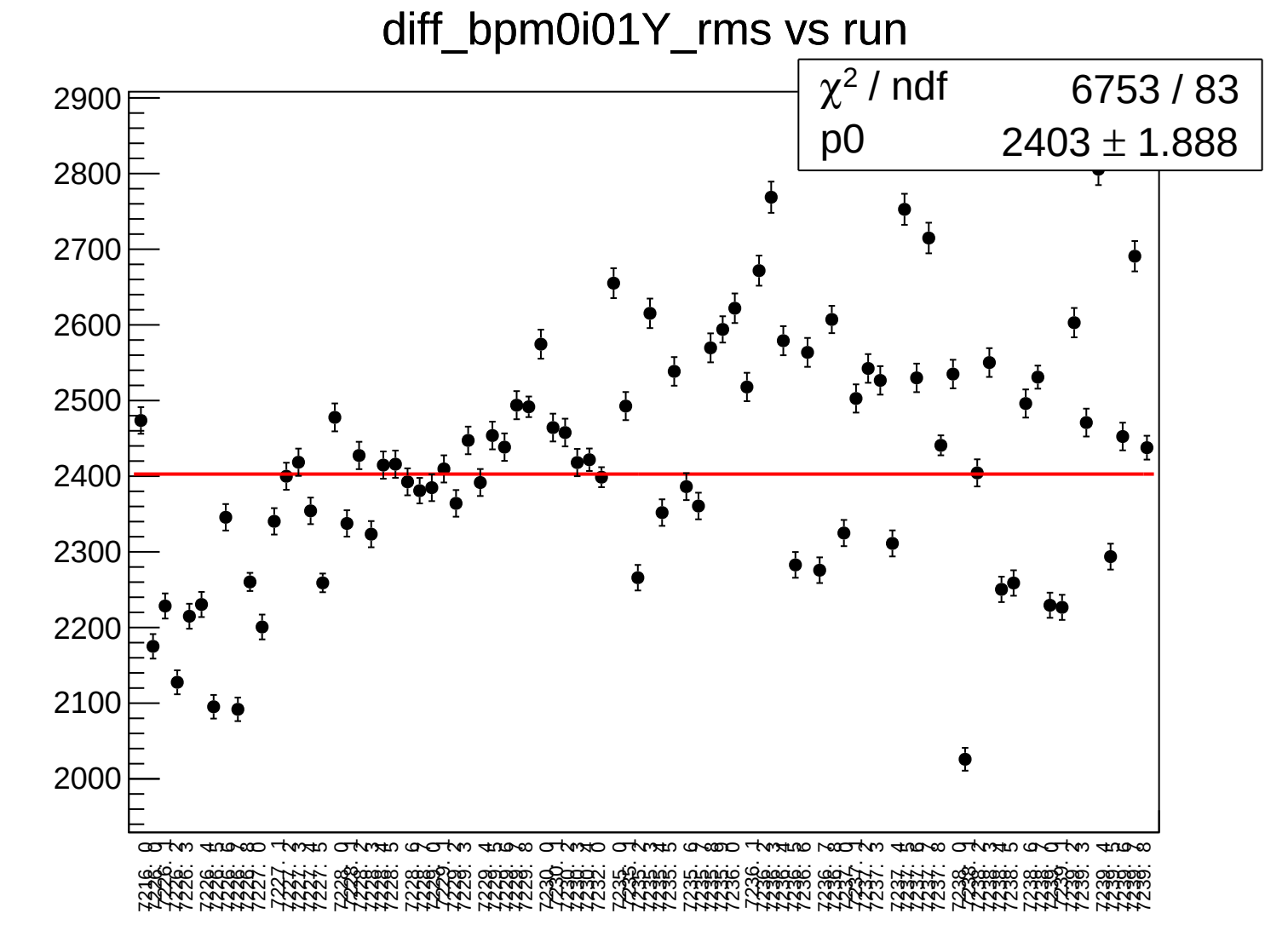

diff_bpm0i01X_mean vs run
χ^2 / ndf 76.81 / 83
p0 9.378 ± 2.802
100
50
0
−50
−100
pull
Entries 84
Mean 65.86
Std Dev 19.07
3
2
1
0
−1
−2

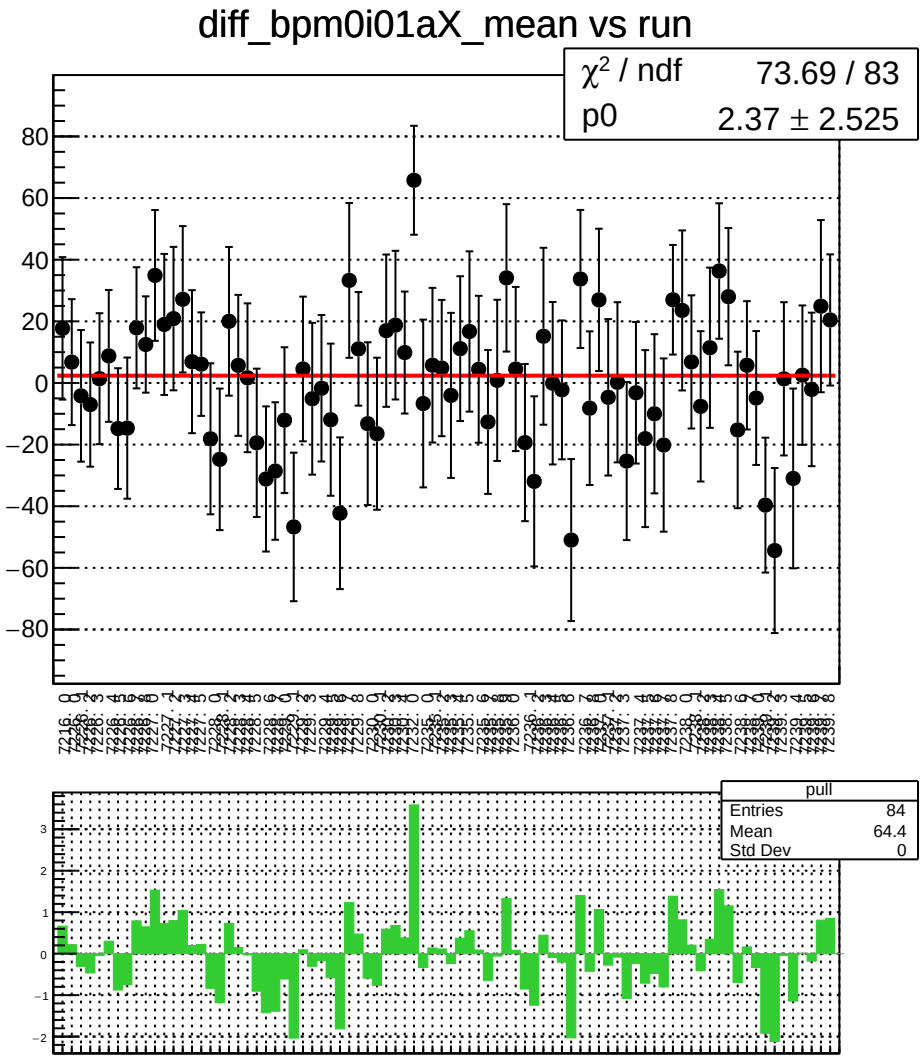

pull1D
Entries 84
Mean −0.04368
Std Dev 0.9552
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

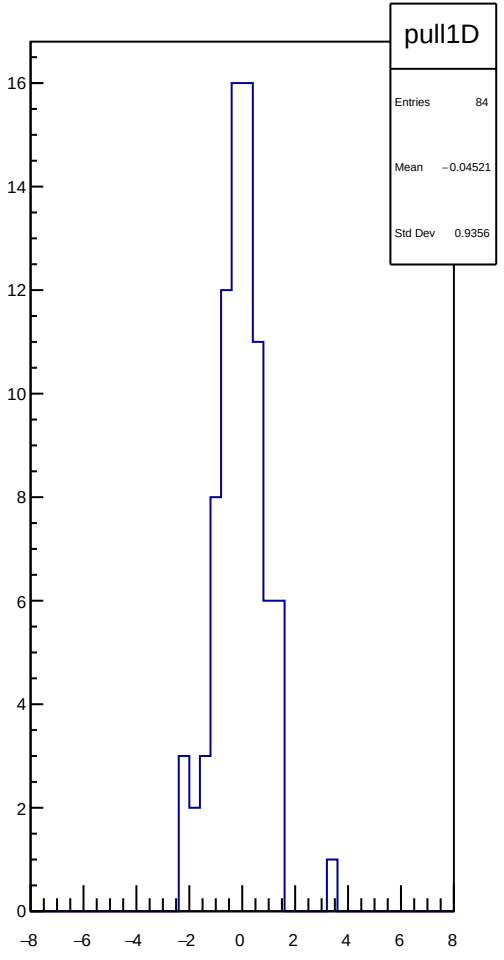

diff_bpm0i01X_rms vs run
χ² / ndf 1.35e+04 / 83
p0 2516 ± 1.981
3200
3000
2800
2600
2400
2200
2000

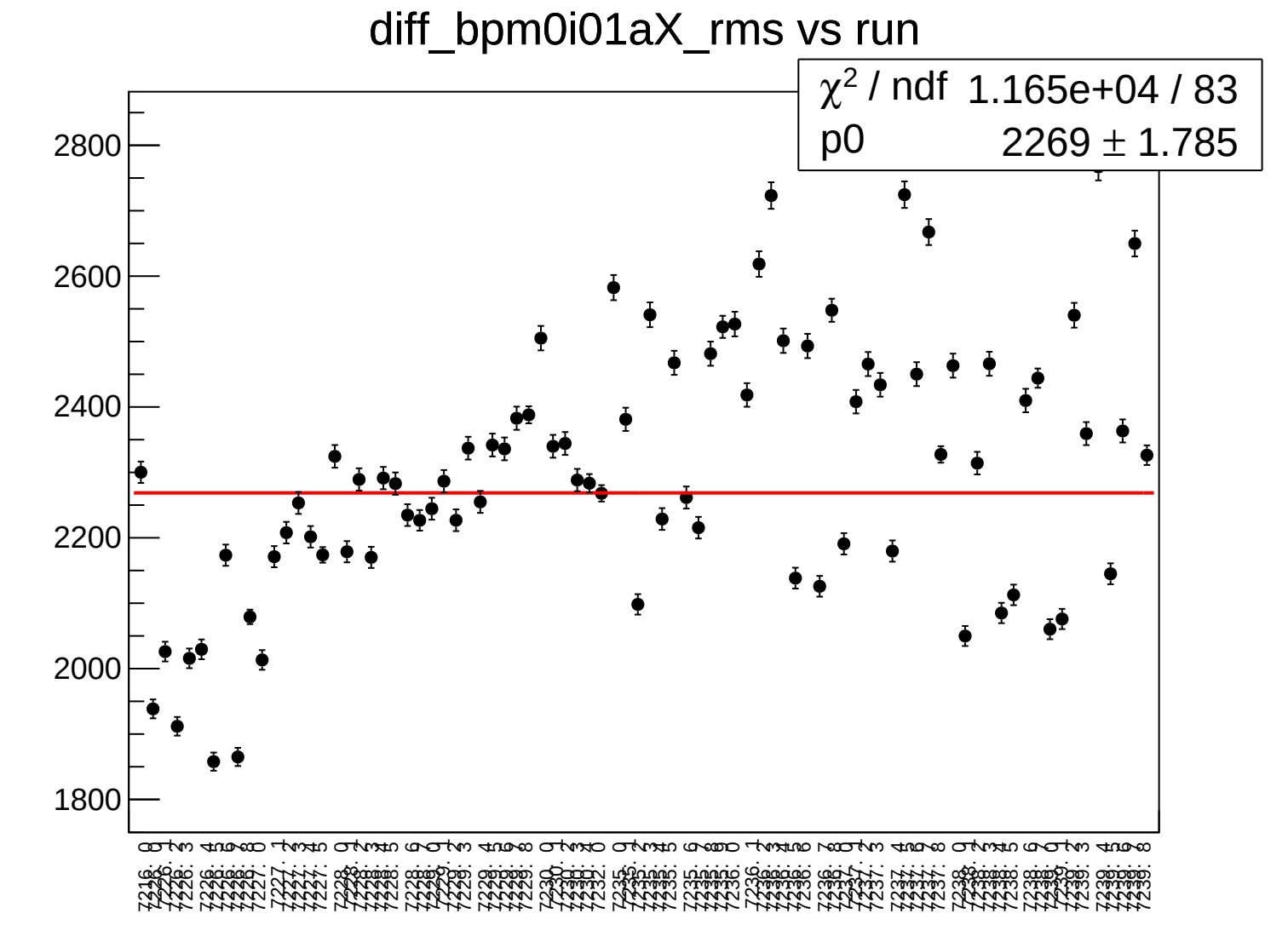

diff_bpm0i01Y_mean vs run
χ^2 / ndf 83.63 / 83
p0 −10.13 ± 2.67
pull
Entries 84
Mean 105.9
Std Dev 0

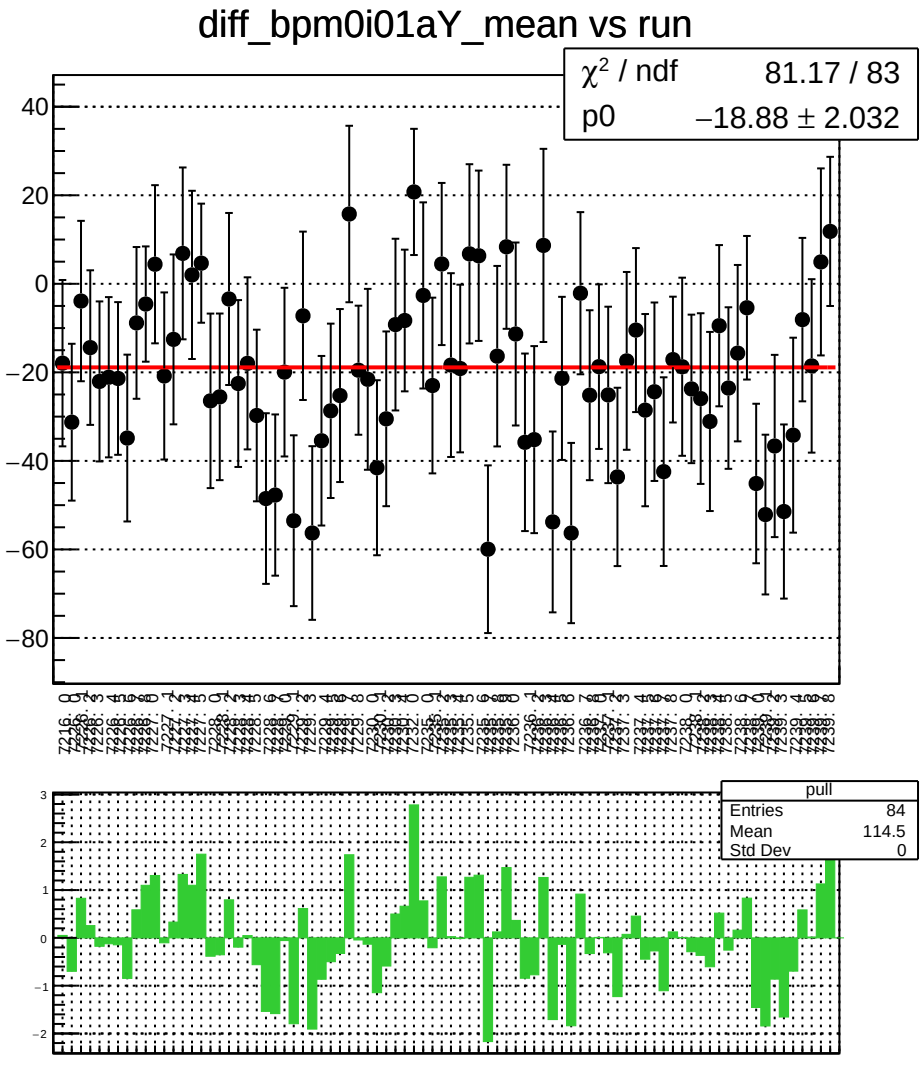

pull1D
Entries 84
Mean −0.03928
Std Dev 0.997

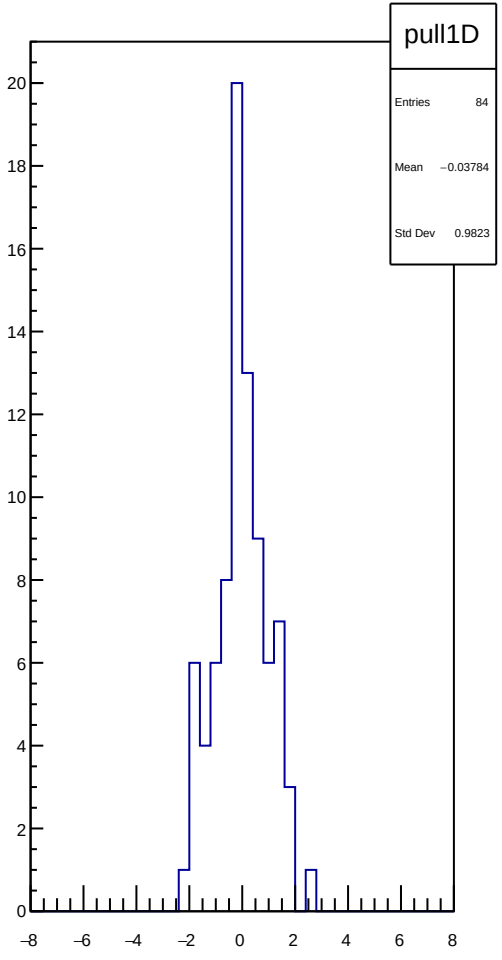

diff_bpm0i01Y_rms vs run
χ² / ndf 6753 / 83
p0 2403 ± 1.888
2900
2800
2700
2600
2500
2400
2300
2200
2100
2000

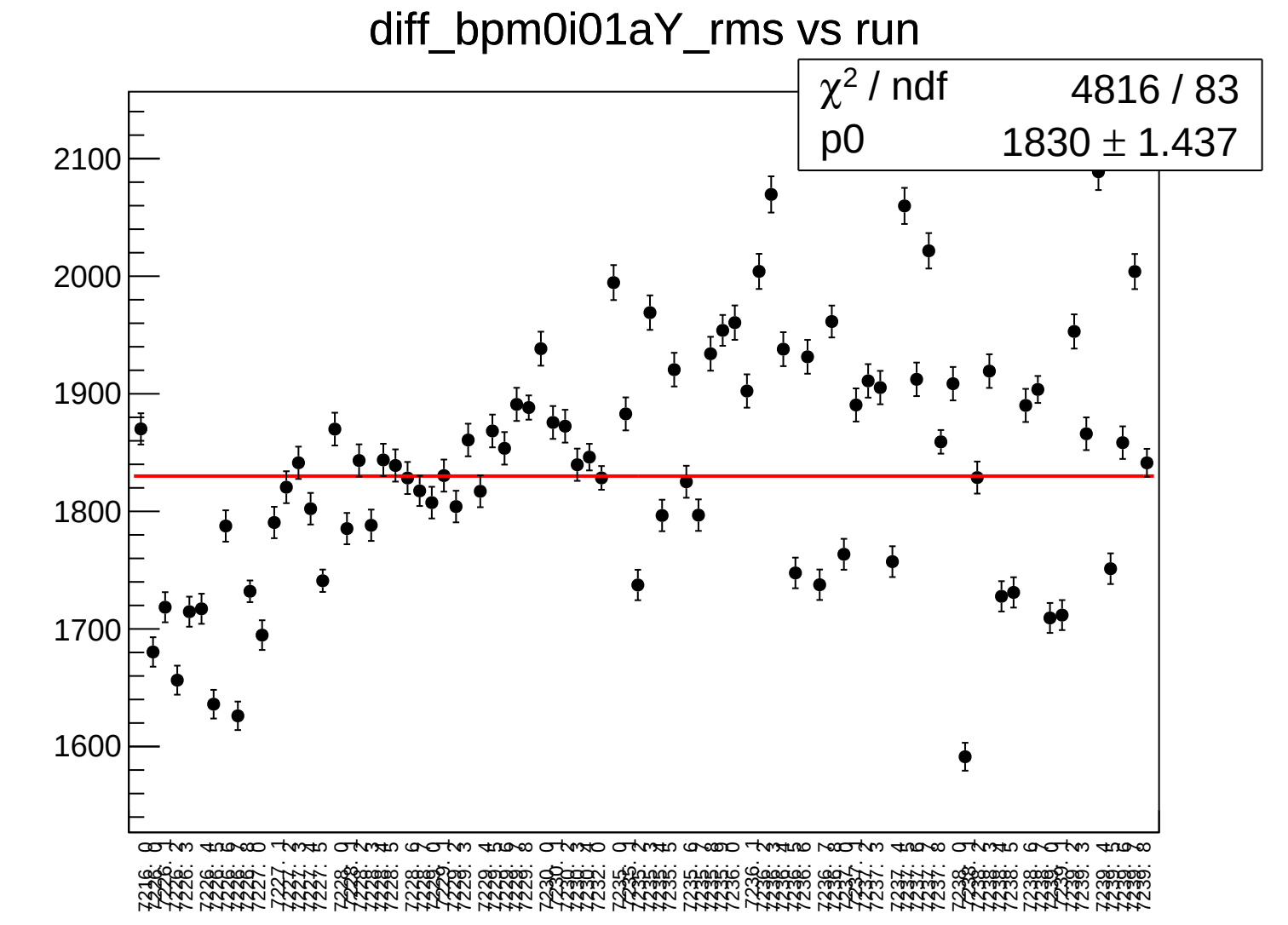

diff_bpm0i01aX_mean vs run
χ² / ndf 73.69 / 83
p0 2.37 ± 2.525
pull
Entries 84
Mean 64.4
Std Dev 0

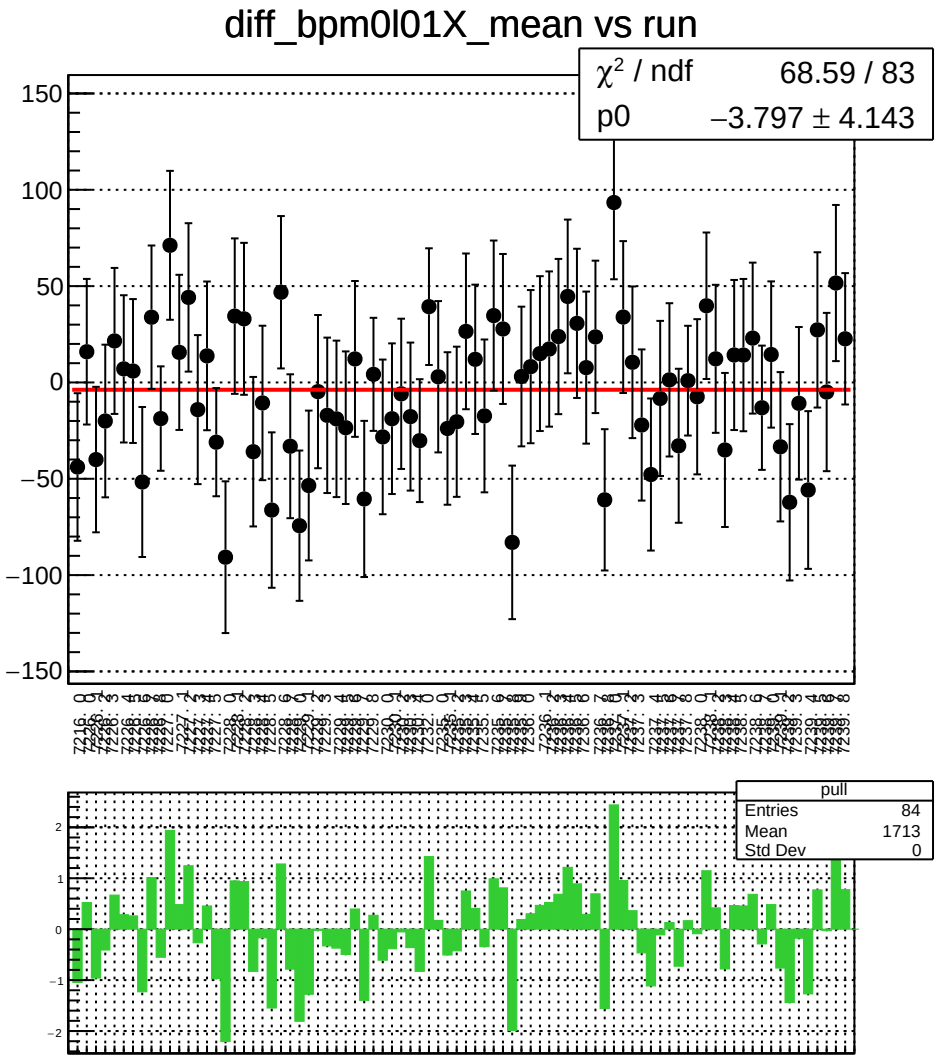

pull1D
Entries 84
Mean −0.04521
Std Dev 0.9356

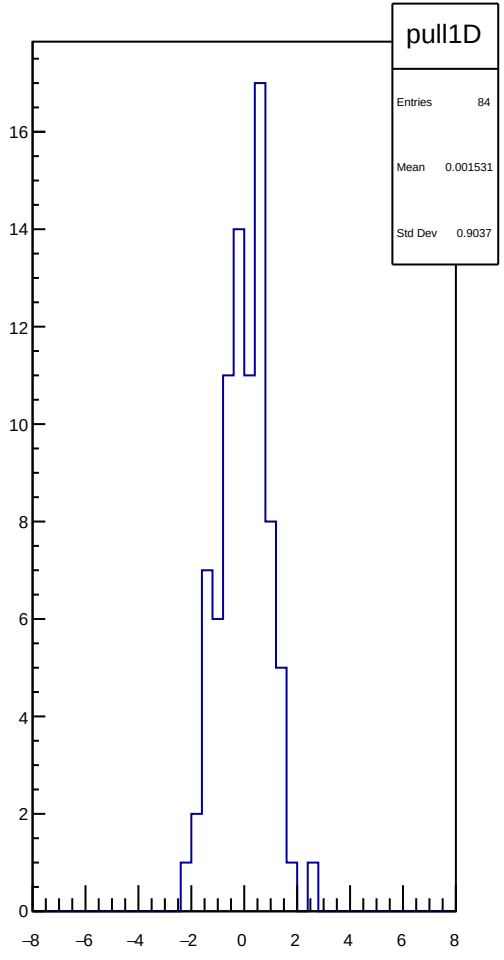

diff_bpm0i01aX_rms vs run
χ^2 / ndf 1.165e+04 / 83
p0 2269 ± 1.785
2800
2600
2400
2200
2000
1800

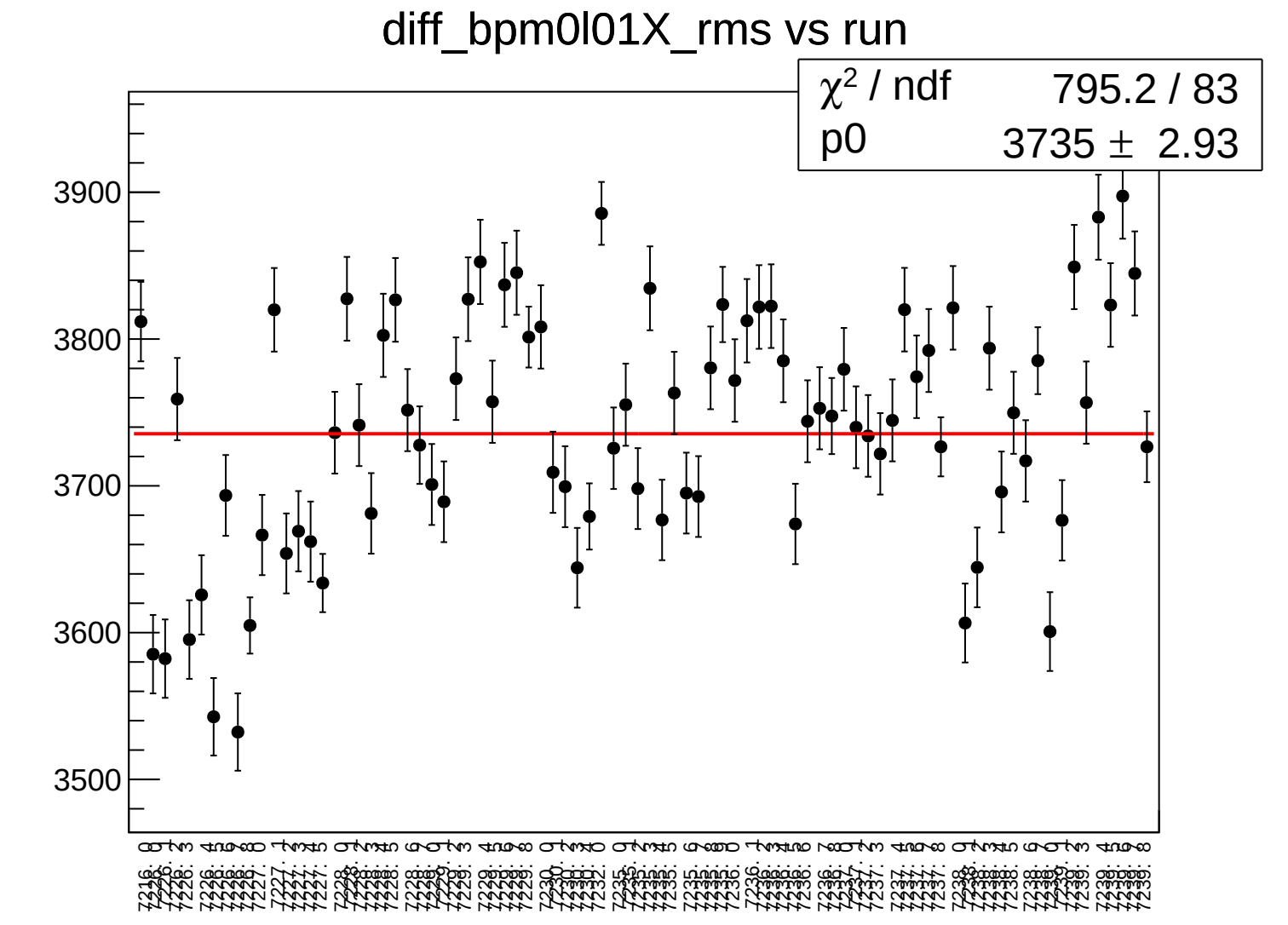

diff_bpm0i01aY_mean vs run
χ² / ndf 81.17 / 83
p0 −18.88 ± 2.032
pull
Entries 84
Mean 114.5
Std Dev 0

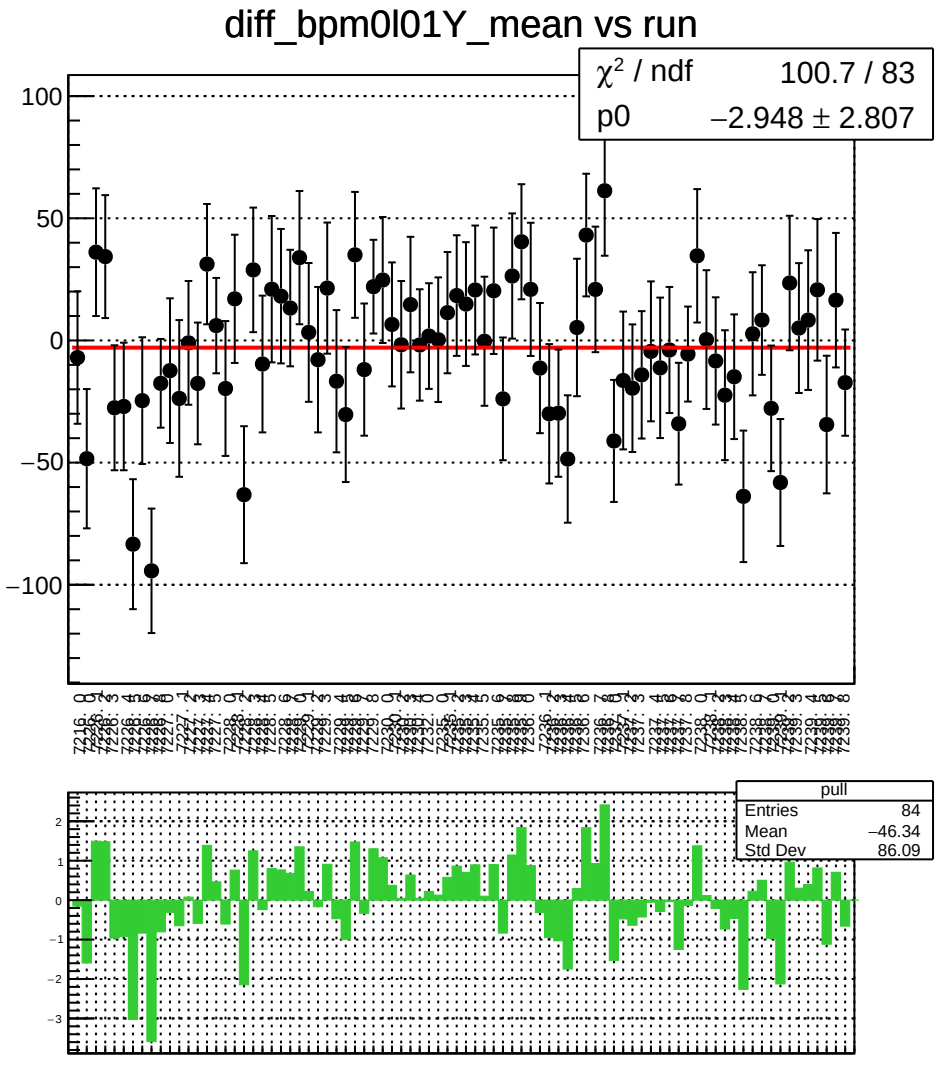

pull1D
Entries 84
Mean −0.03784
Std Dev 0.9823

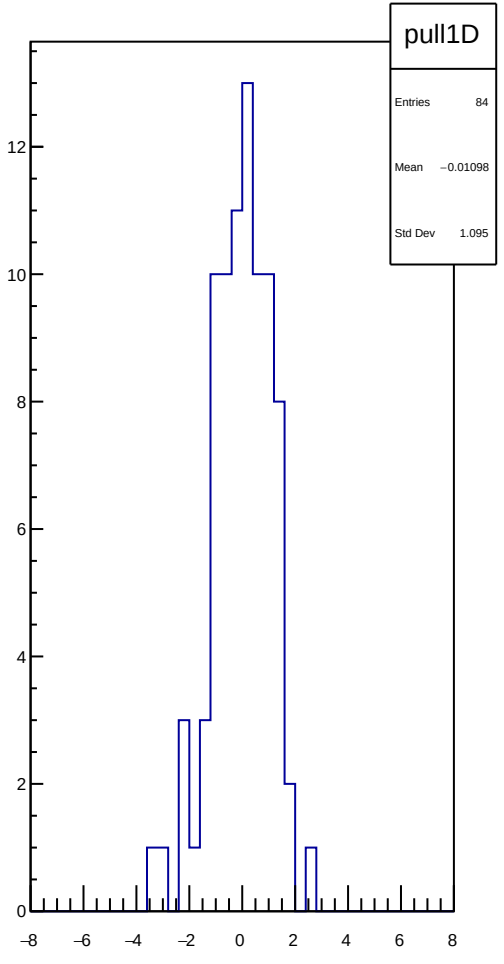

diff_bpm0i01aY_rms vs run
χ² / ndf 4816 / 83
p0 1830 ± 1.437
2100
2000
1900
1800
1700
1600

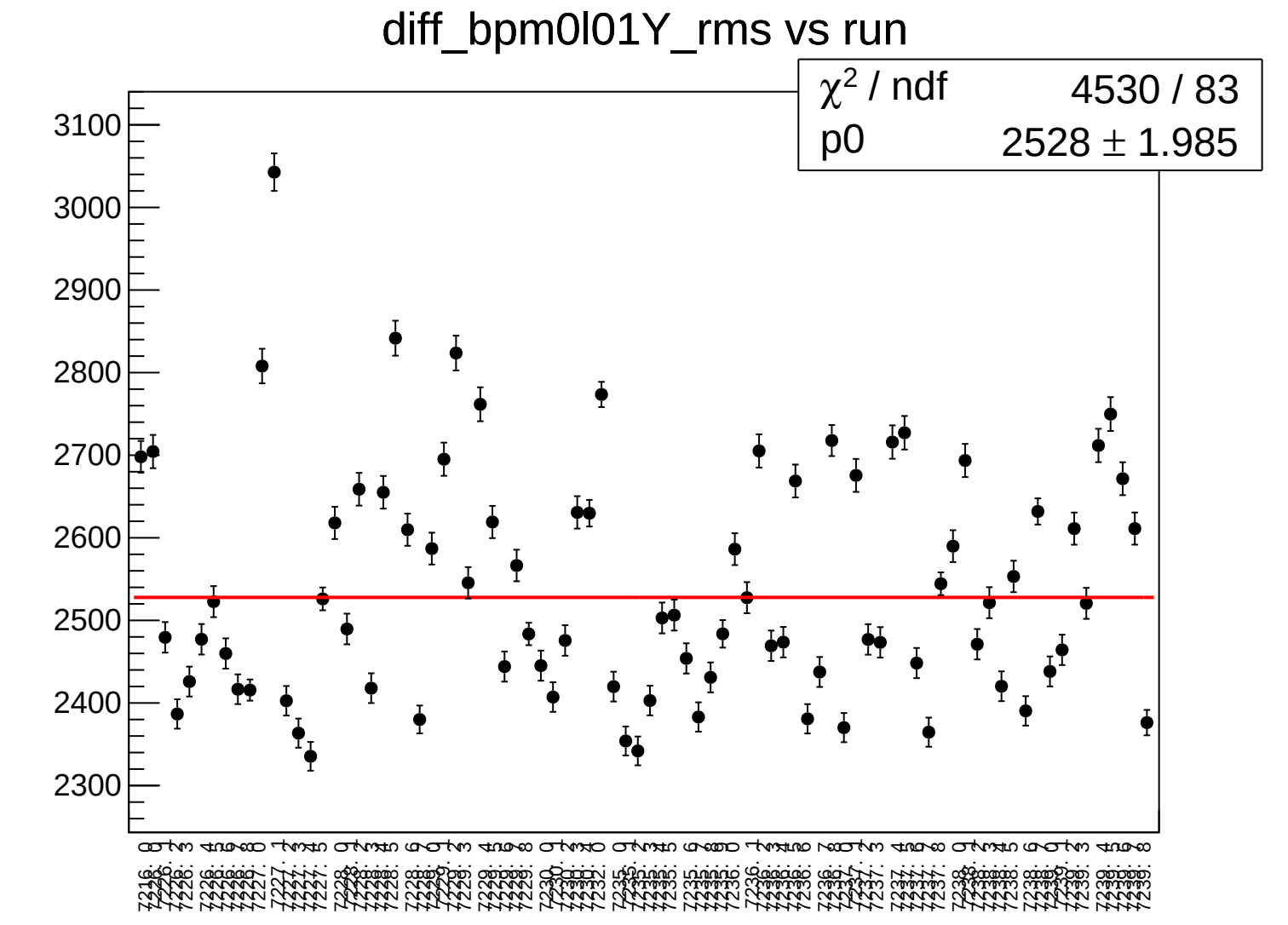

diff_bpm0l01X_mean vs run
χ² / ndf 68.59 / 83
p0 −3.797 ± 4.143
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean 1713
Std Dev 0
2
1
0
−1
−2

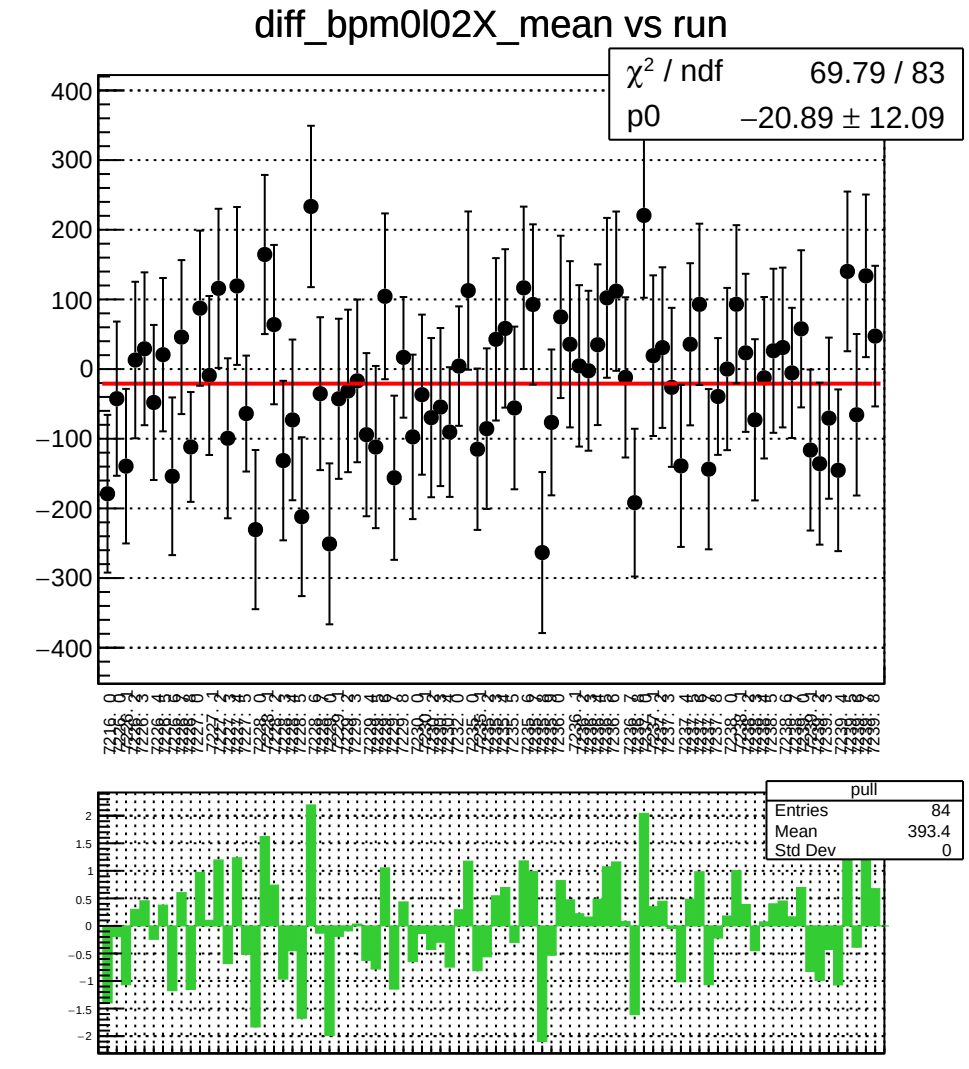

pull1D
Entries 84
Mean 0.001531
Std Dev 0.9037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

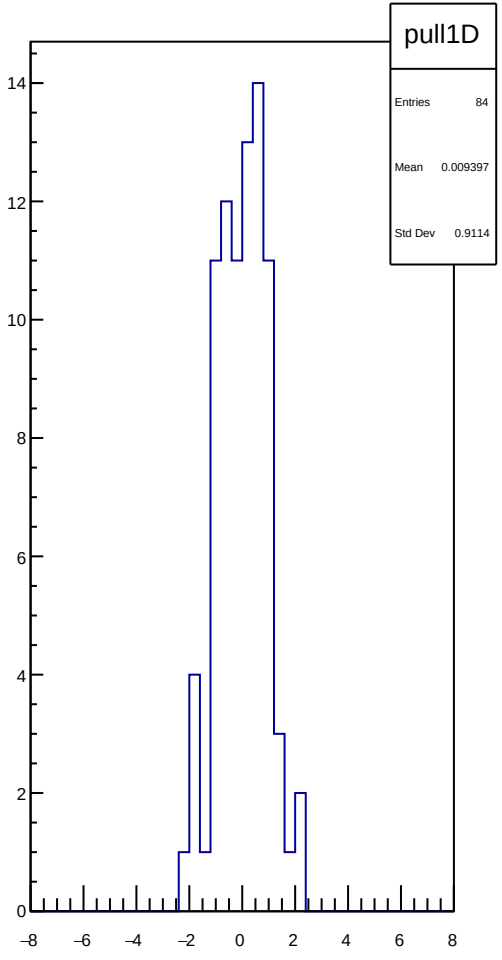

diff_bpm0l01X_rms vs run
χ² / ndf 795.2 / 83
p0 3735 ± 2.93
3900
3800
3700
3600
3500

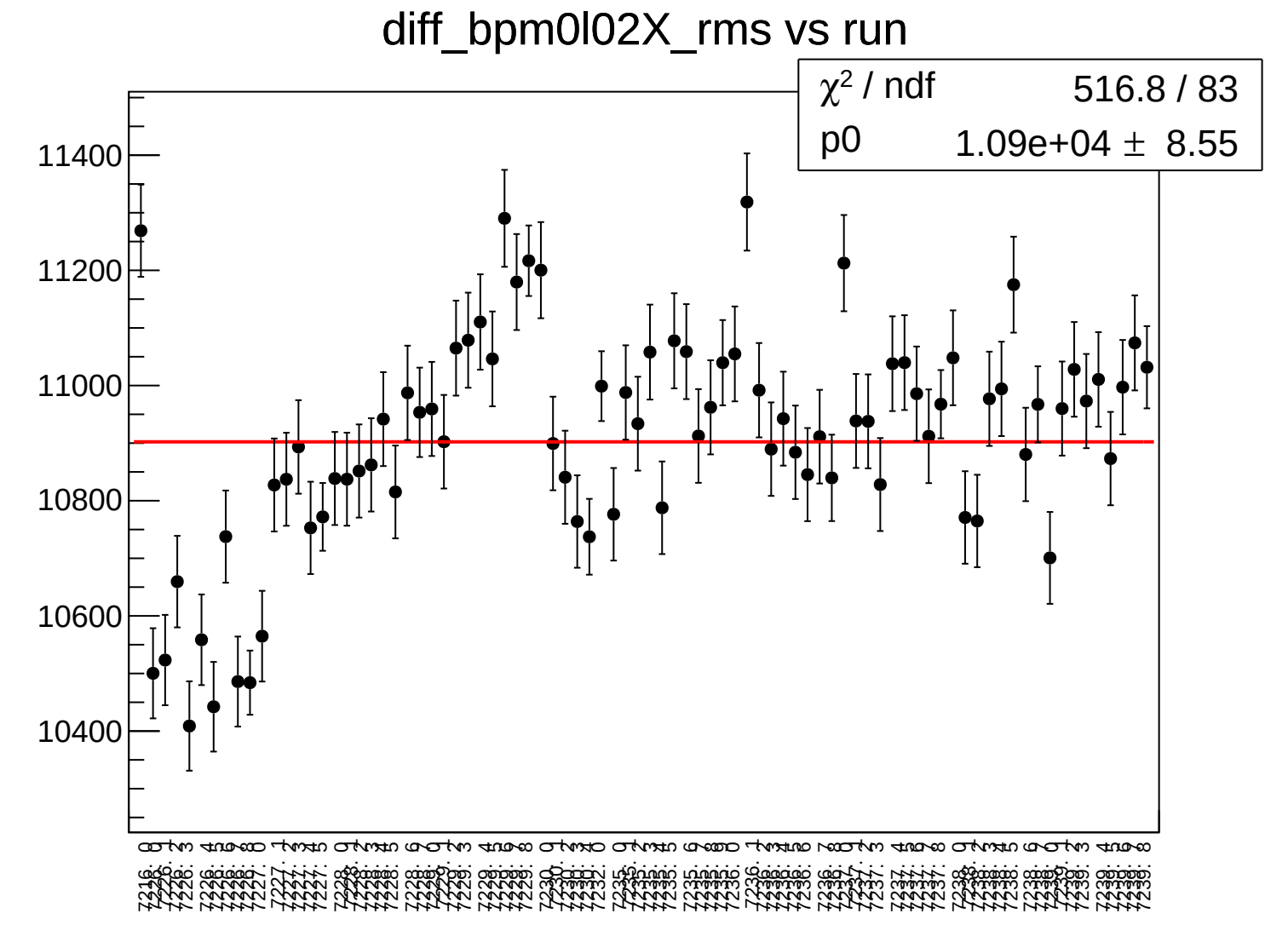

diff_bpm0l01Y_mean vs run
χ² / ndf 100.7 / 83
p0 −2.948 ± 2.807
pull
Entries 84
Mean −46.34
Std Dev 86.09

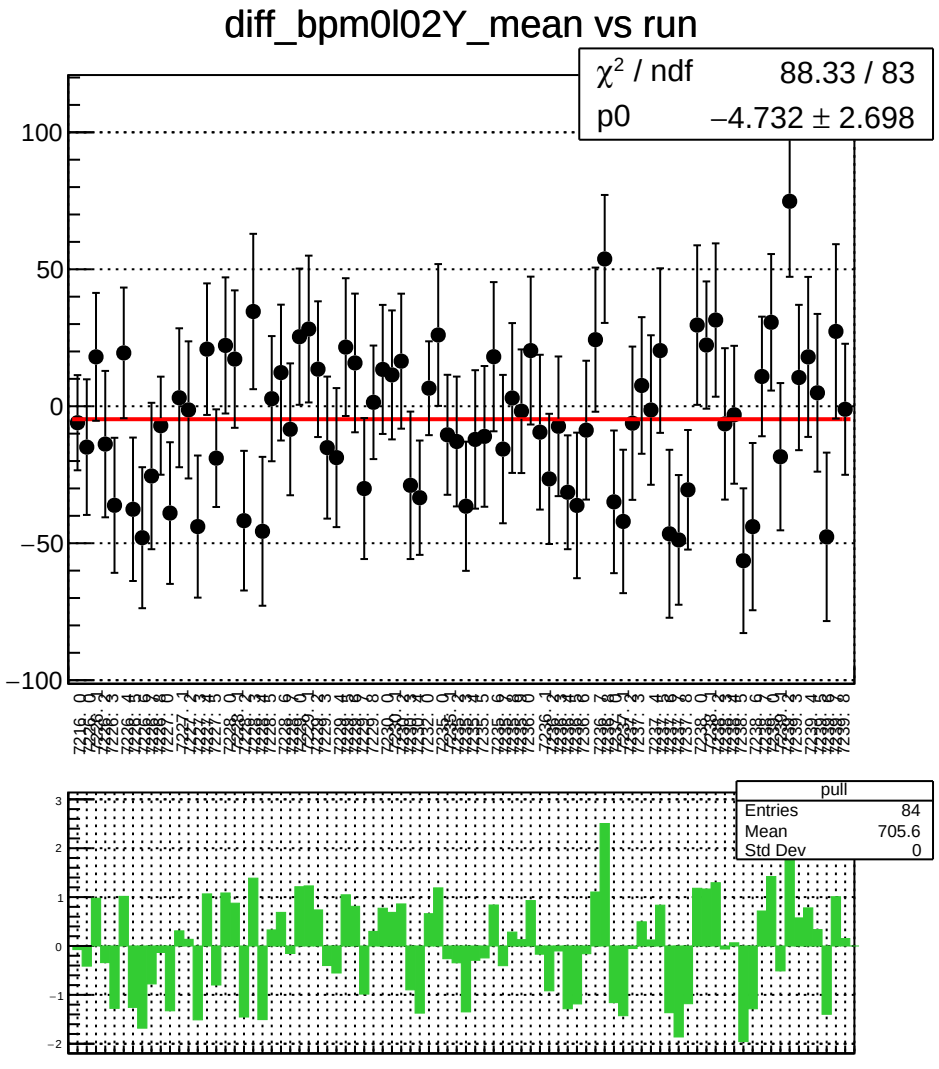

pull1D
Entries 84
Mean −0.01098
Std Dev 1.095

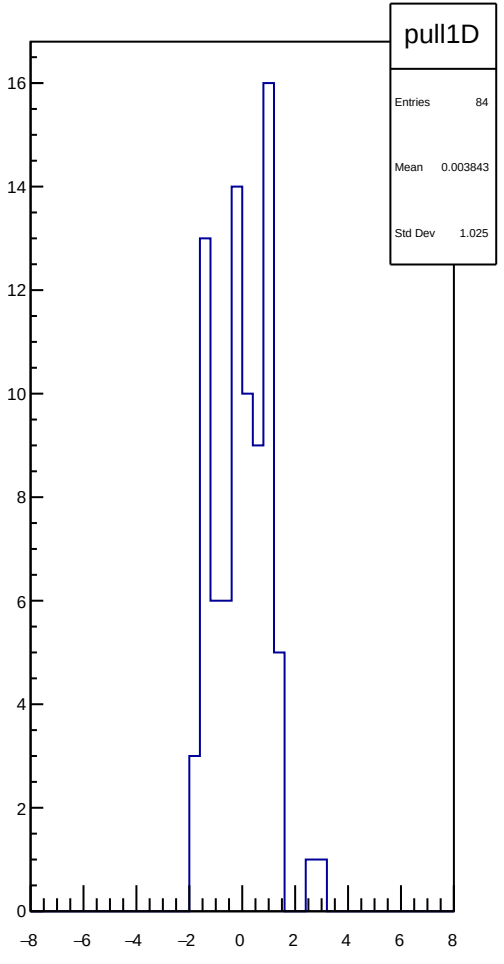

diff_bpm0l01Y_rms vs run
χ² / ndf 4530 / 83
p0 2528 ± 1.985
3100
3000
2900
2800
2700
2600
2500
2400
2300

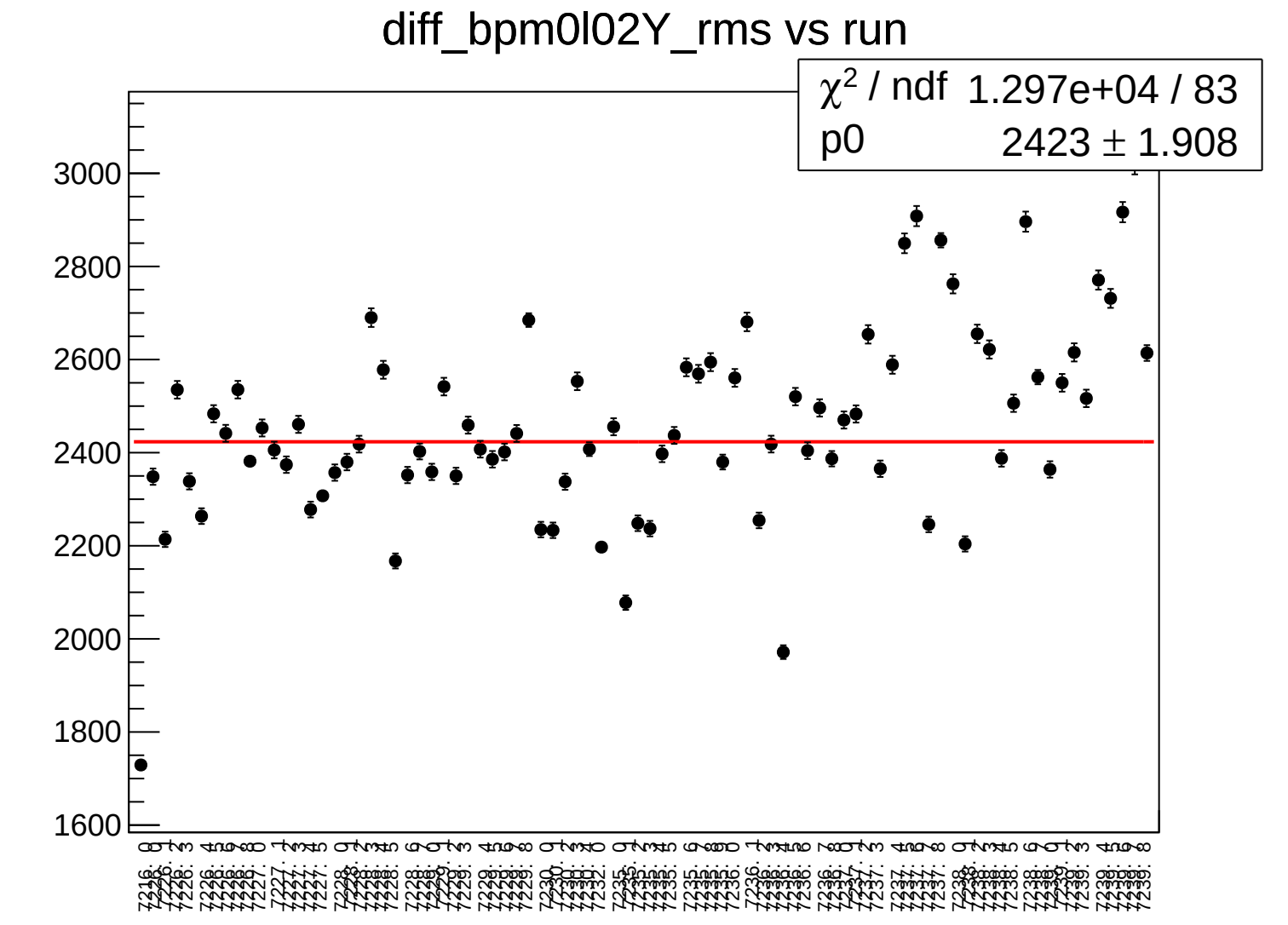

diff_bpm0l02X_mean vs run
χ² / ndf 69.79 / 83
p0 −20.89 ± 12.09
pull
Entries 84
Mean 393.4
Std Dev 0

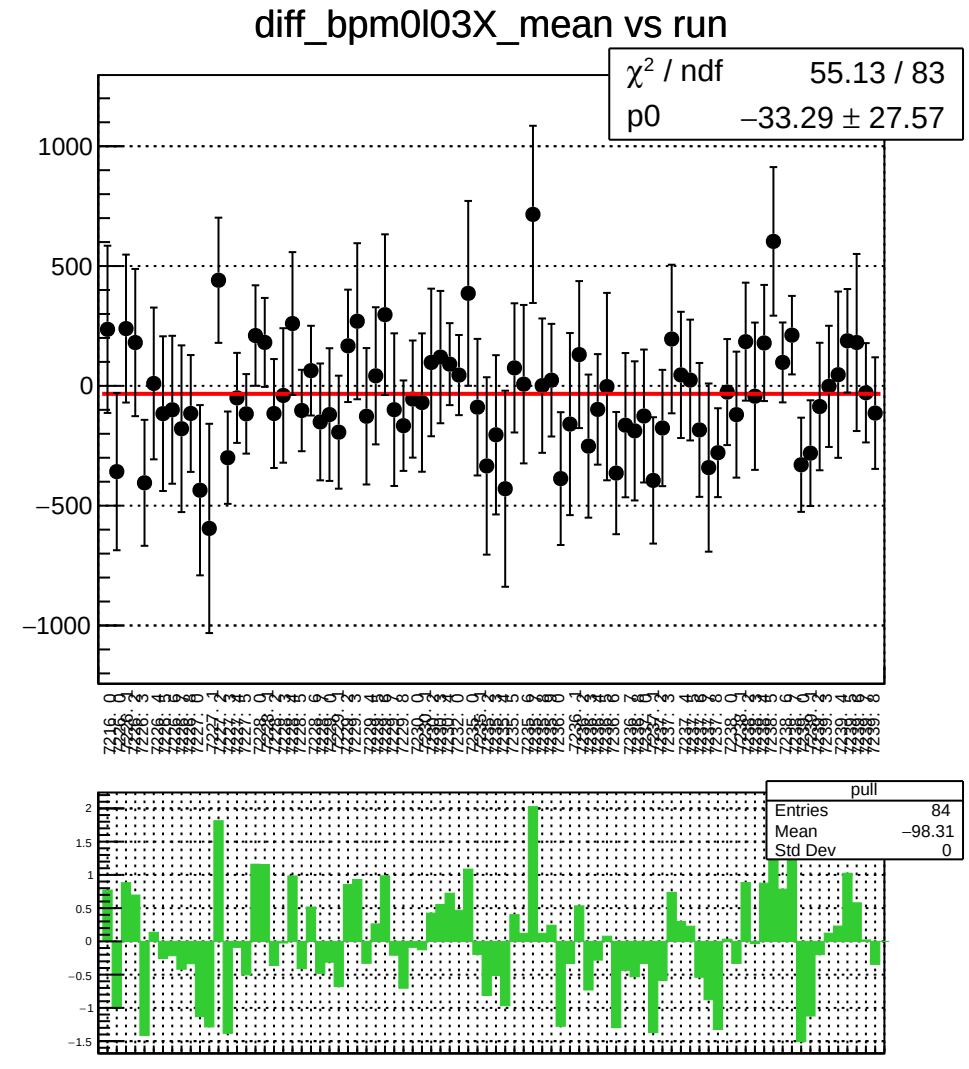

pull1D
Entries 84
Mean 0.009397
Std Dev 0.9114

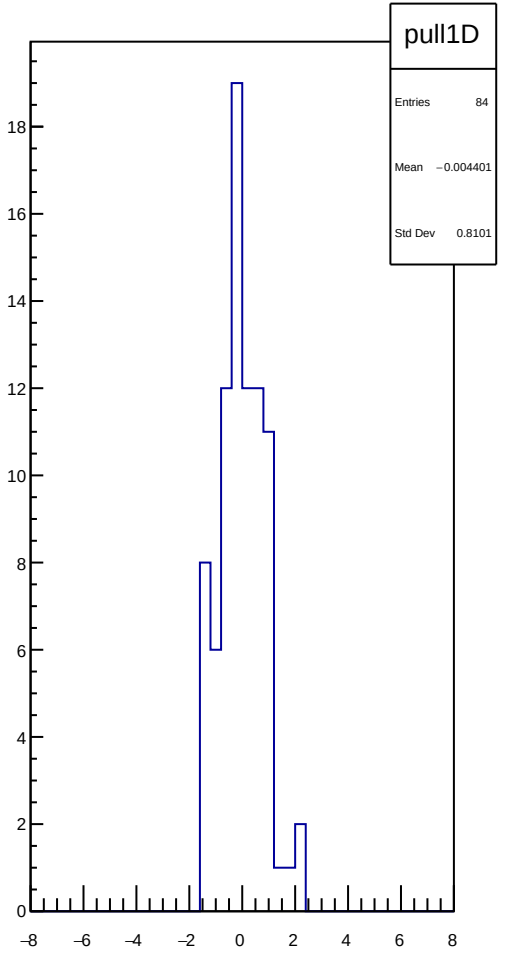

diff_bpm0l02X_rms vs run
χ^2 / ndf 516.8 / 83
p0 1.09e+04 ± 8.55
11400
11200
11000
10800
10600
10400

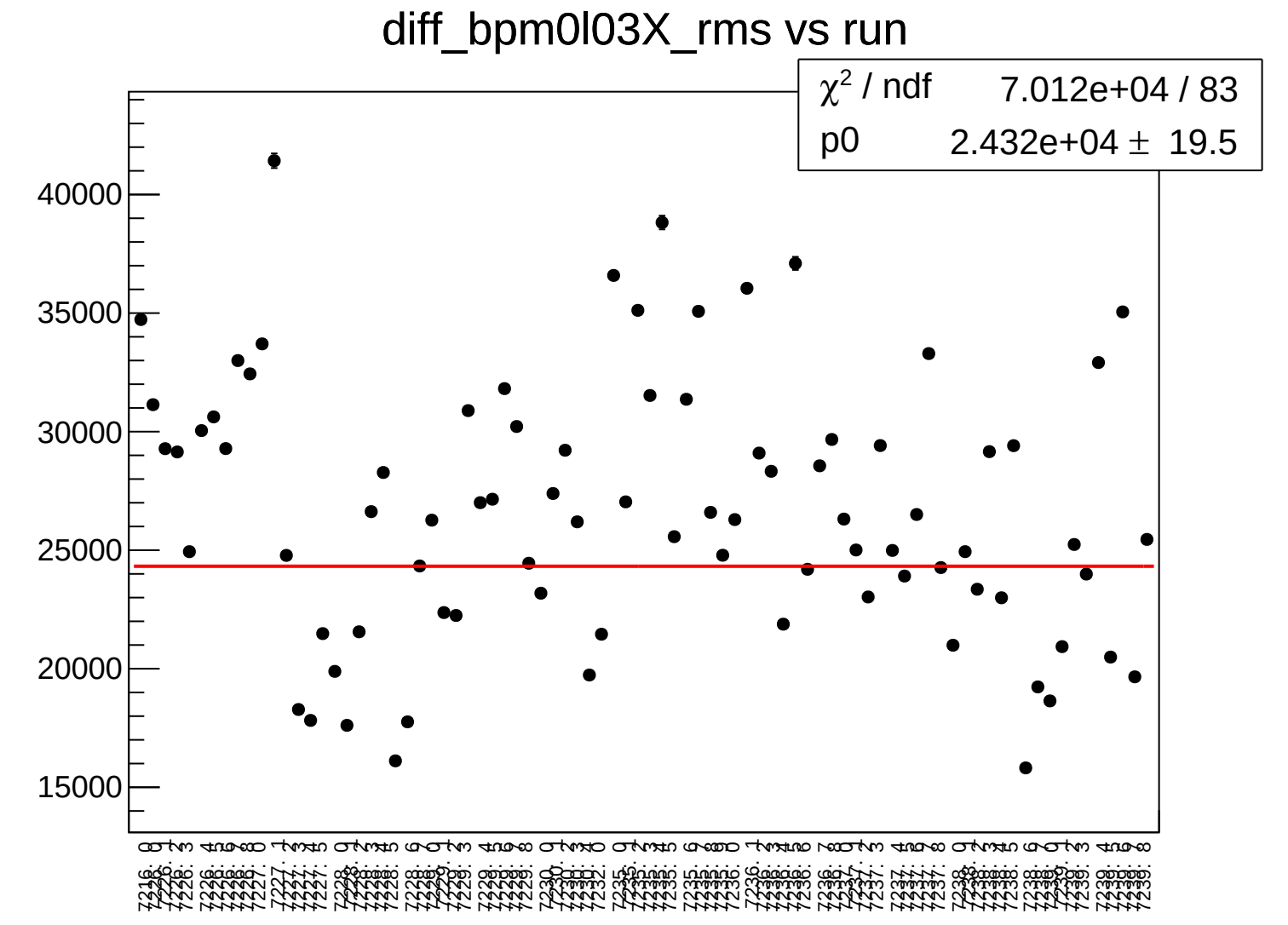

diff_bpm0l02Y_mean vs run
χ^2 / ndf 88.33 / 83
p0 −4.732 ± 2.698
100
50
0
−50
−100
pull
Entries 84
Mean 705.6
Std Dev 0
3
2
1
0
−1
−2

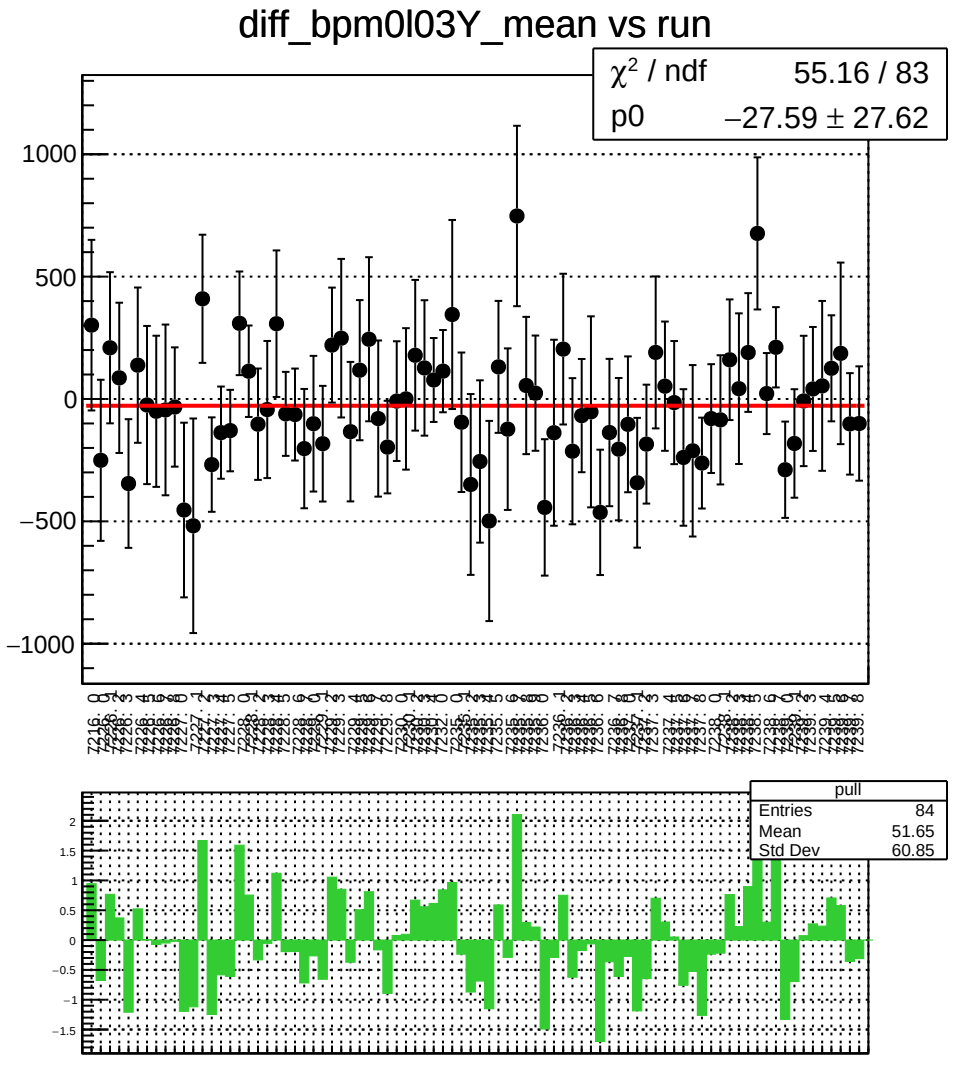

pull1D
Entries 84
Mean 0.003843
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

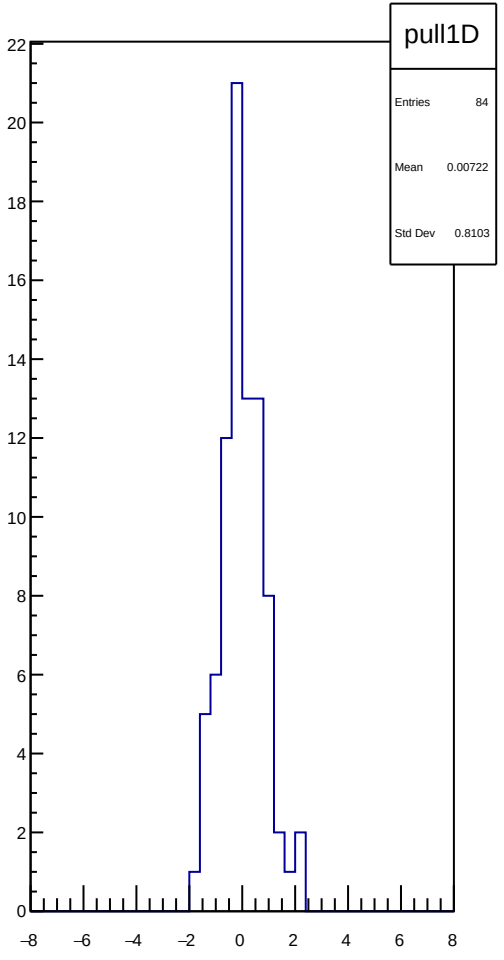

diff_bpm0l02Y_rms vs run
χ² / ndf 1.297e+04 / 83
p0 2423 ± 1.908
3000
2800
2600
2400
2200
2000
1800
1600

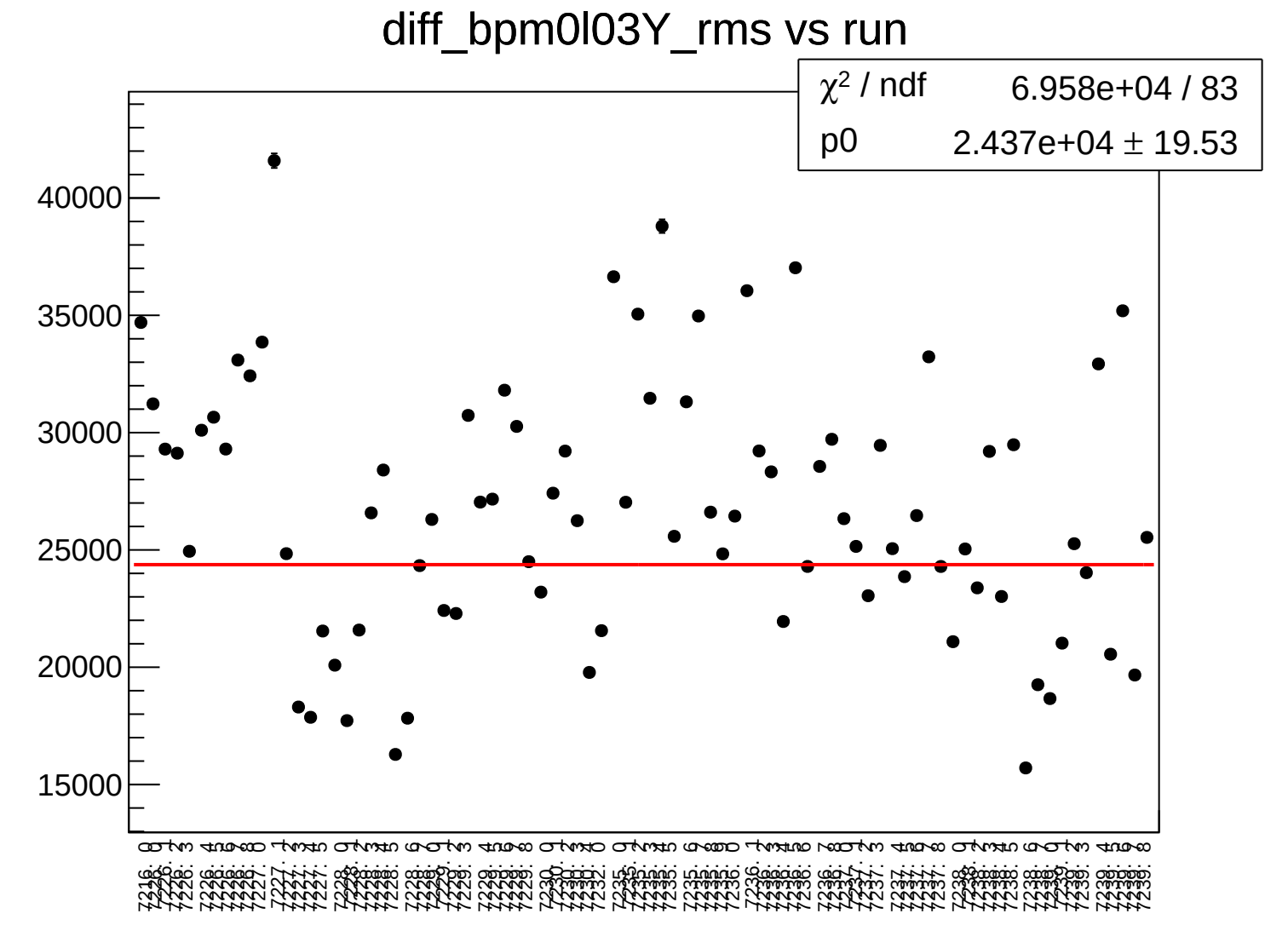

diff_bpm0l03X_mean vs run
χ² / ndf 55.13 / 83
p0 −33.29 ± 27.57
1000
500
0
−500
−1000
pull
Entries 84
Mean −98.31
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

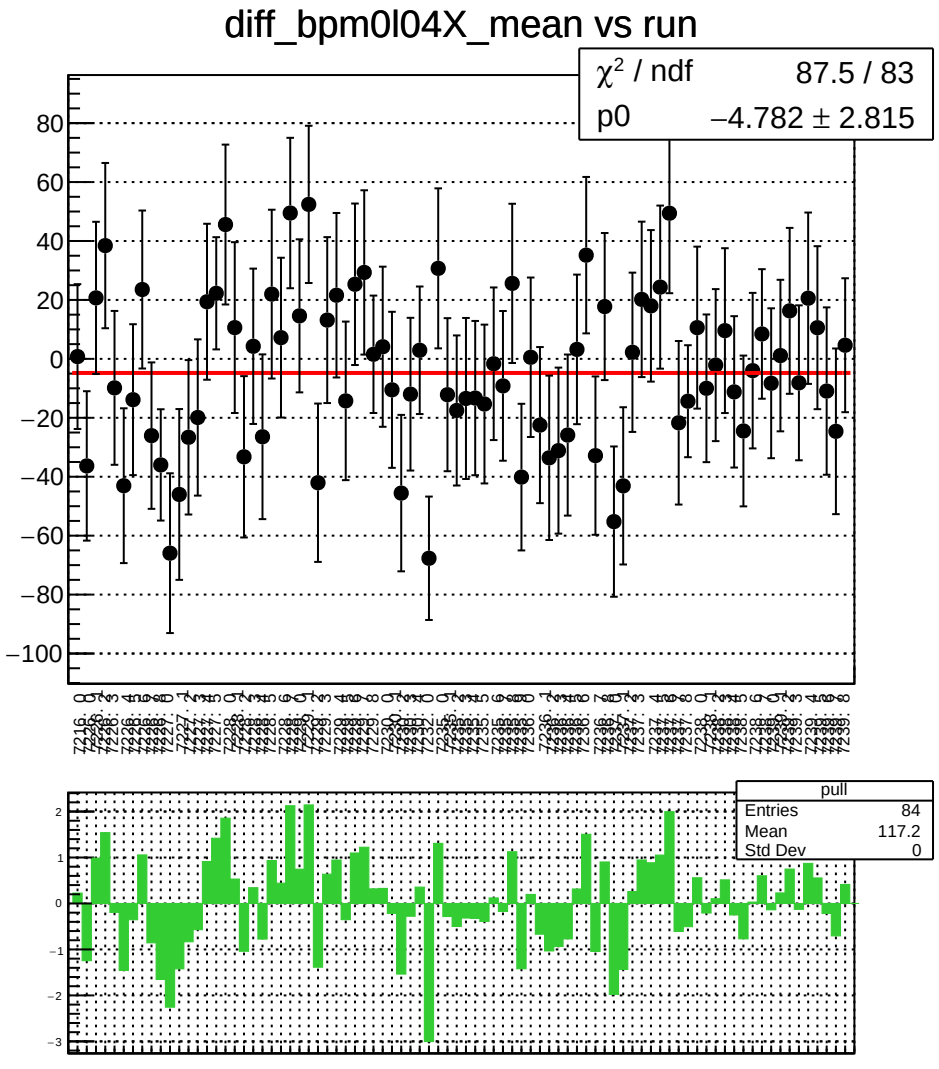

pull1D
Entries 84
Mean −0.004401
Std Dev 0.8101
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

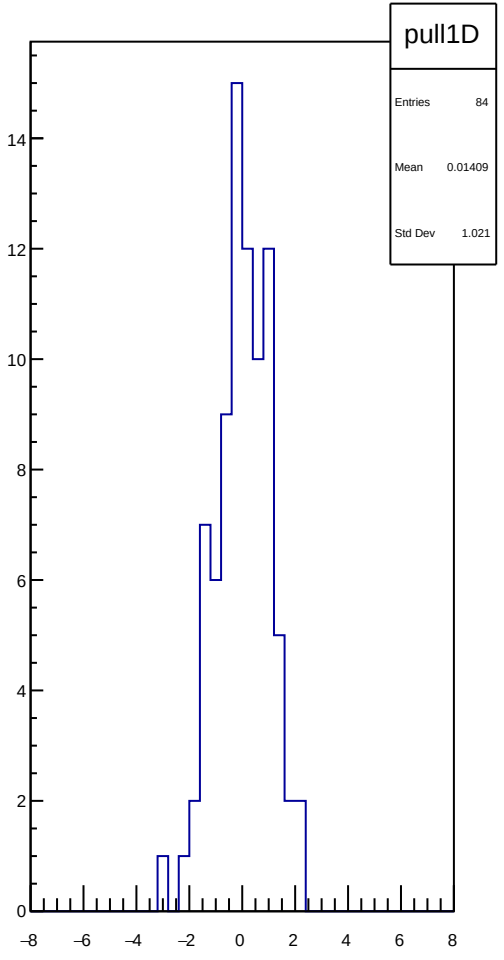

diff_bpm0l03X_rms vs run
χ^2 / ndf 7.012e+04 / 83
p0 2.432e+04 ± 19.5
40000
35000
30000
25000
20000
15000

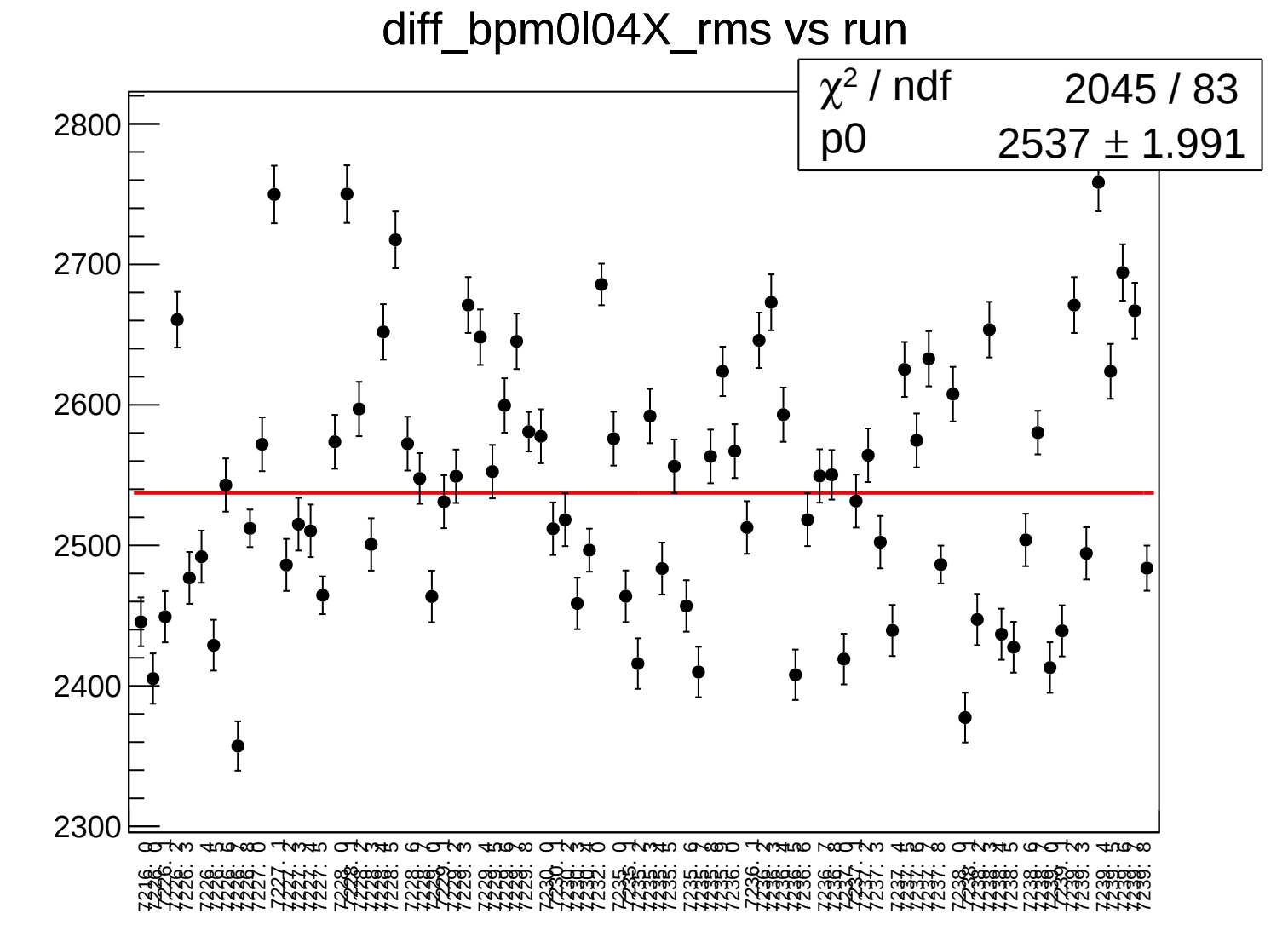

diff_bpm0l03Y_mean vs run
χ² / ndf 55.16 / 83
p0 −27.59 ± 27.62
1000
500
0
−500
−1000
pull
Entries 84
Mean 51.65
Std Dev 60.85
2
1.5
1
0.5
0
−0.5
−1
−1.5

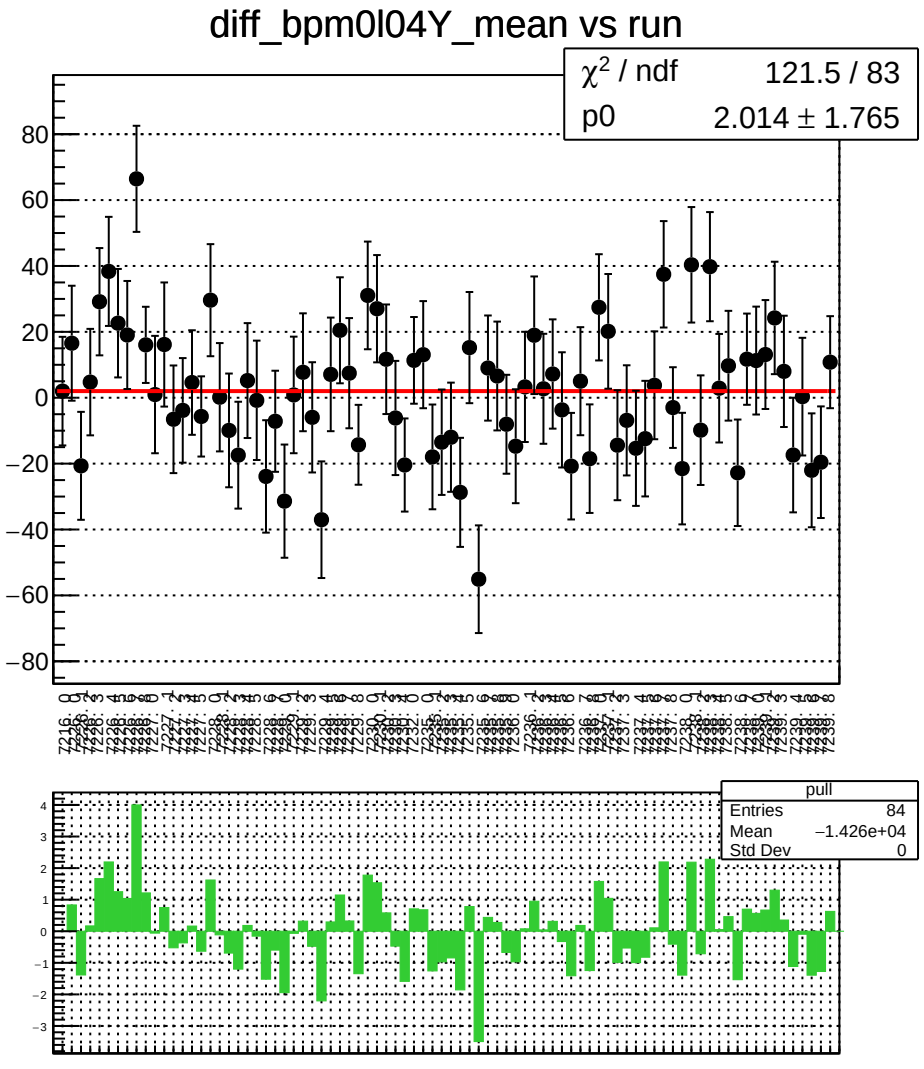

pull1D
Entries 84
Mean 0.00722
Std Dev 0.8103
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

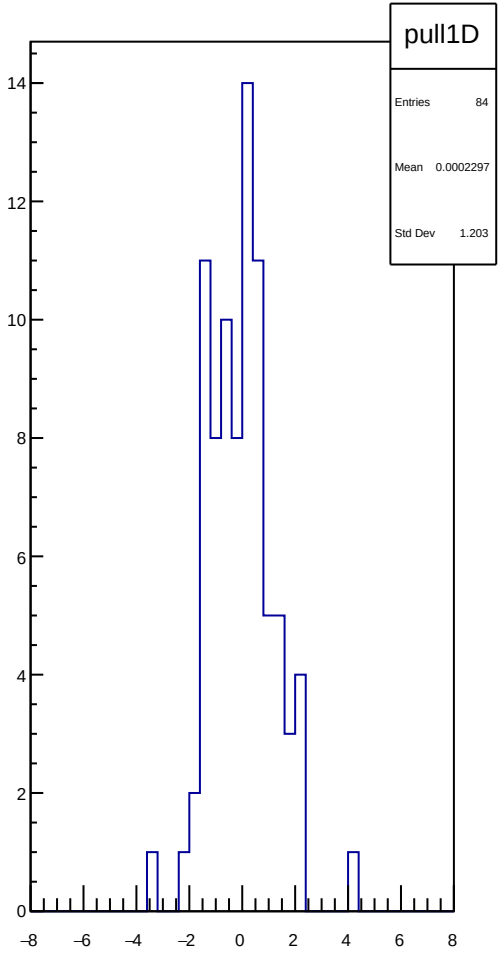

diff_bpm0l03Y_rms vs run
χ² / ndf 6.958e+04 / 83
p0 2.437e+04 ± 19.53
40000
35000
30000
25000
20000
15000

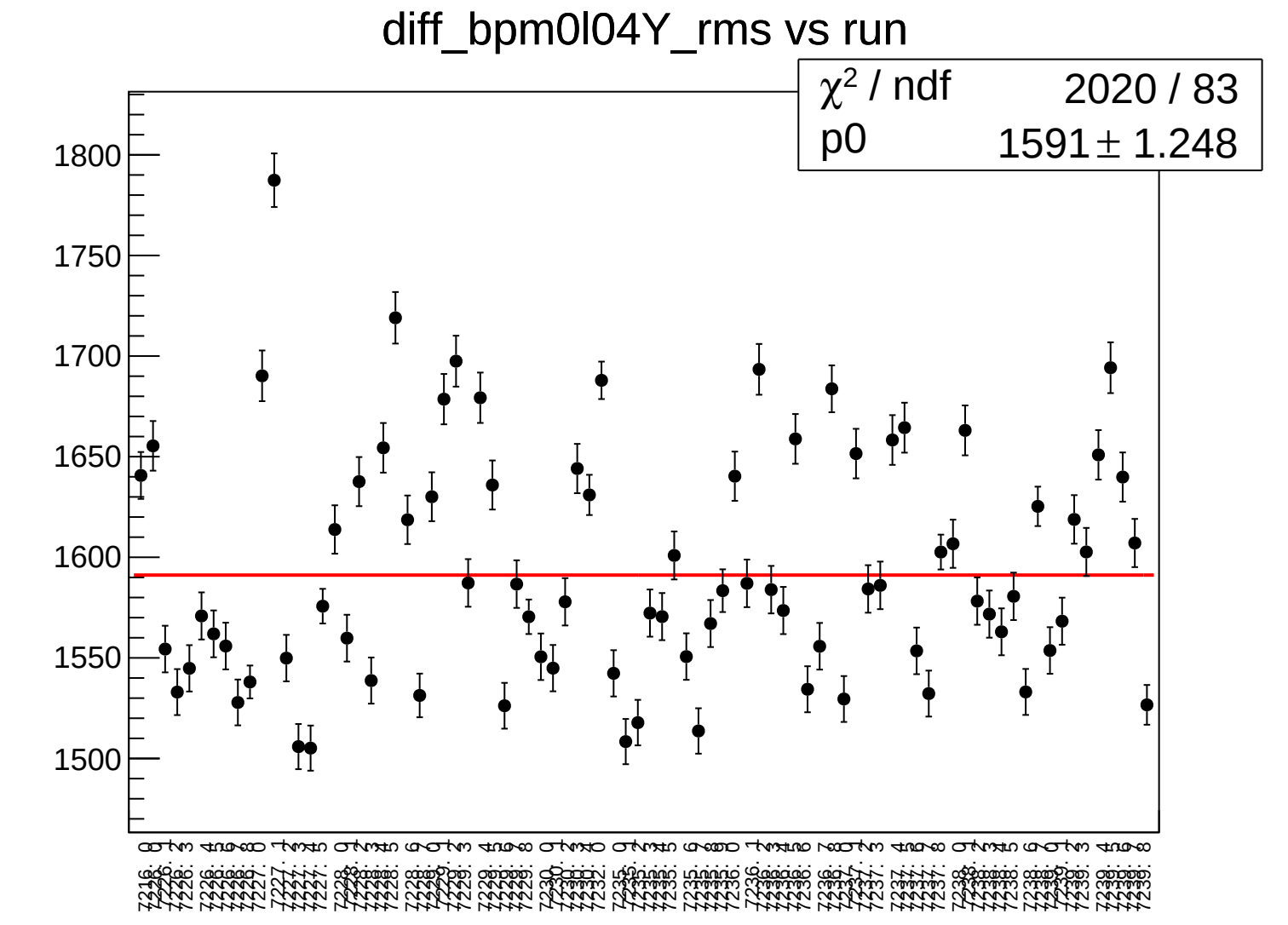

diff_bpm0l04X_mean vs run
χ² / ndf 87.5 / 83
p0 −4.782 ± 2.815
pull
Entries 84
Mean 117.2
Std Dev 0

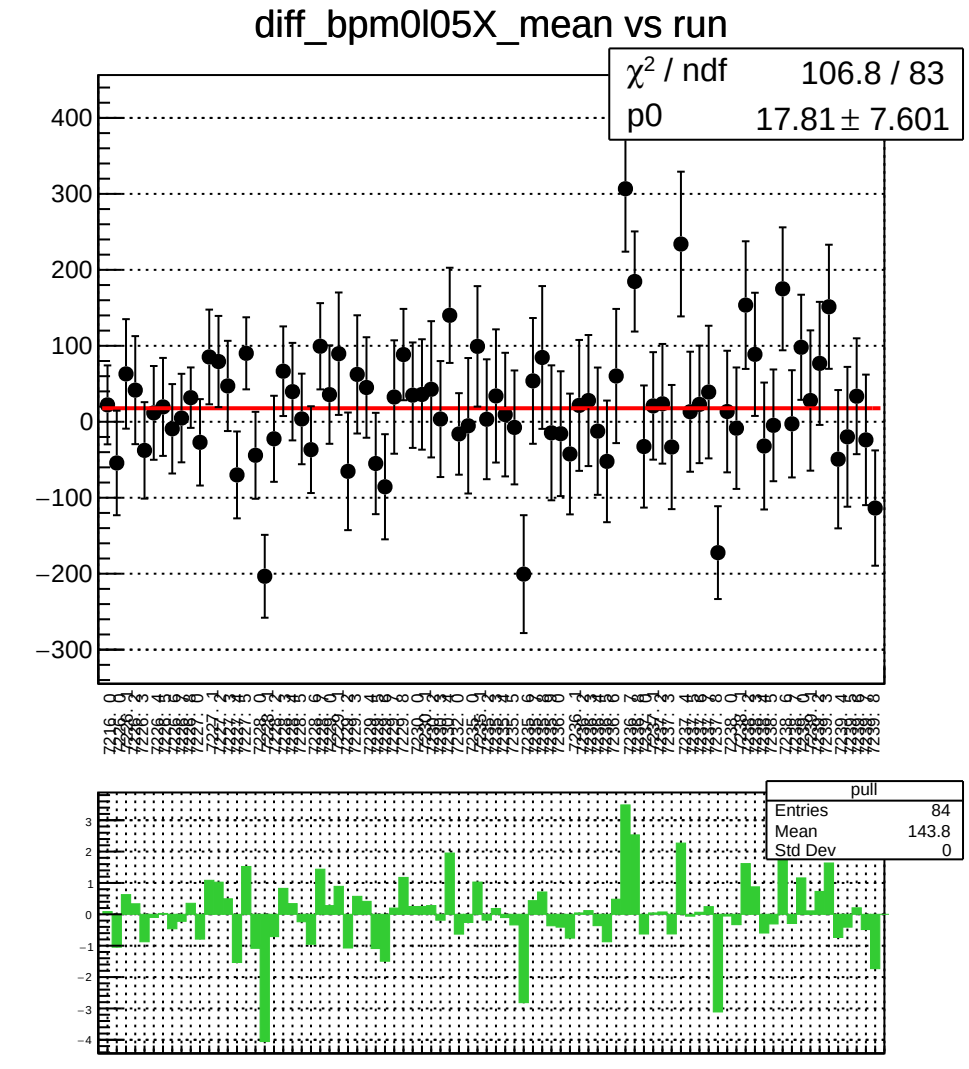

pull1D
Entries 84
Mean 0.01409
Std Dev 1.021

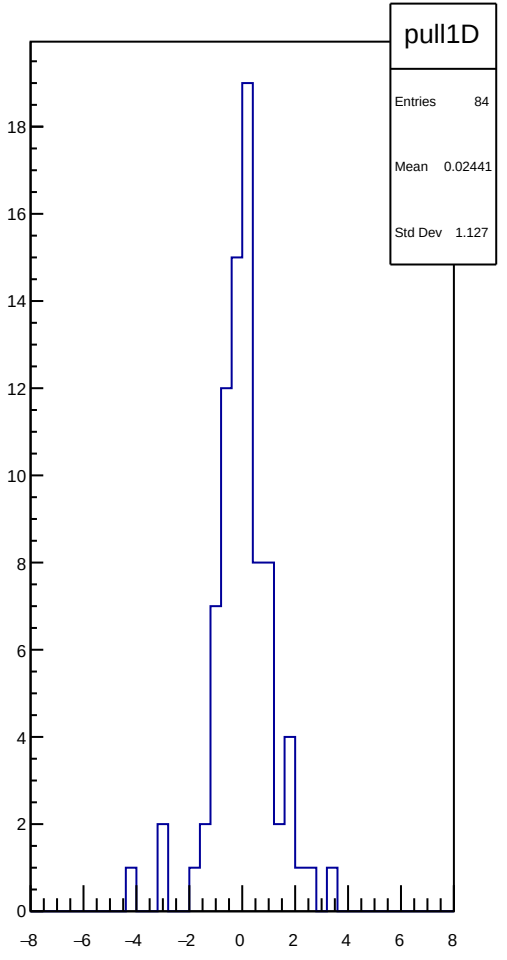

diff_bpm0l04X_rms vs run
χ² / ndf 2045 / 83
p0 2537 ± 1.991
2800
2700
2600
2500
2400
2300

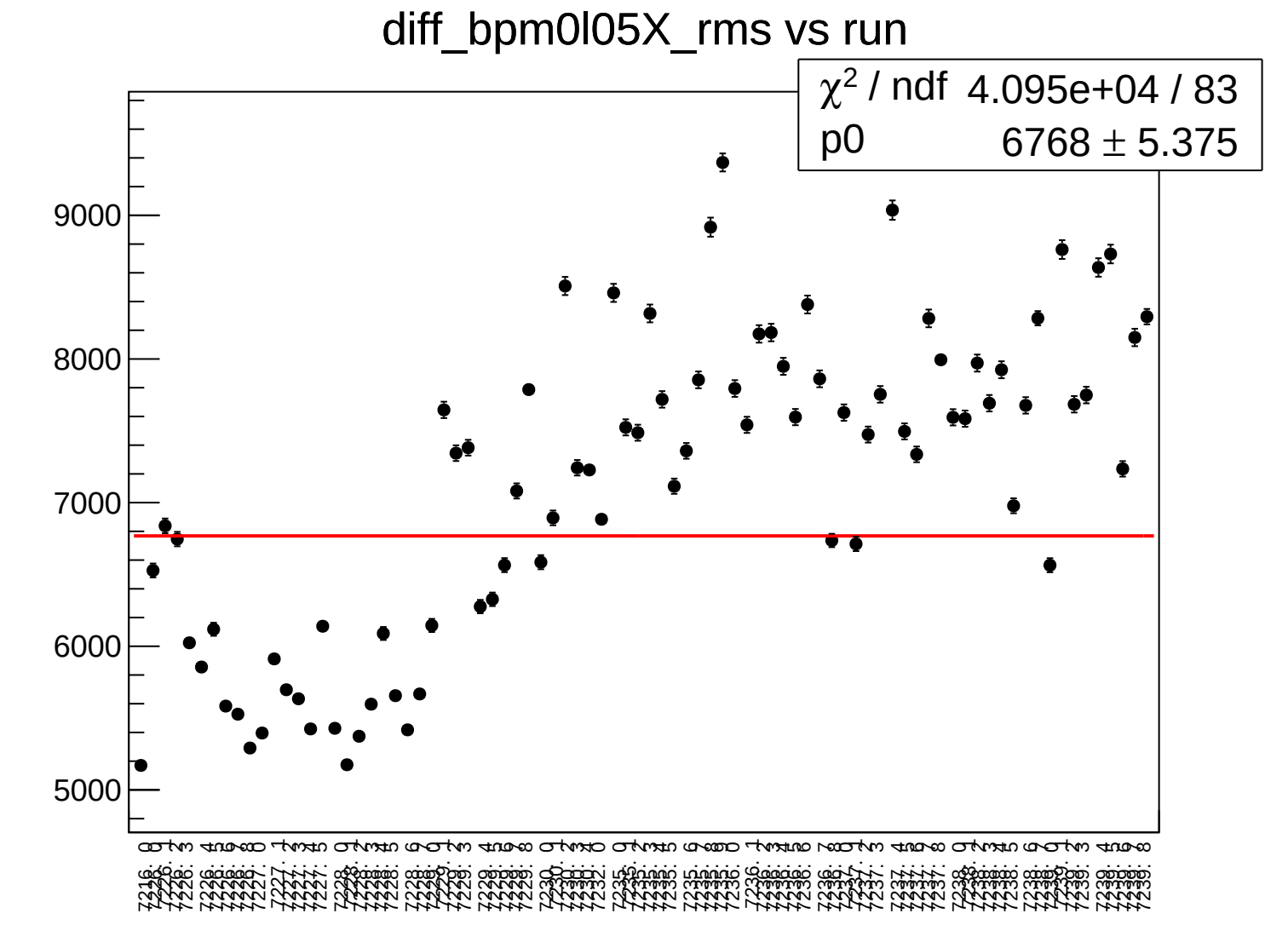

diff_bpm0l04Y_mean vs run
χ² / ndf 121.5 / 83
p0 2.014 ± 1.765
pull
Entries 84
Mean −1.426e+04
Std Dev 0

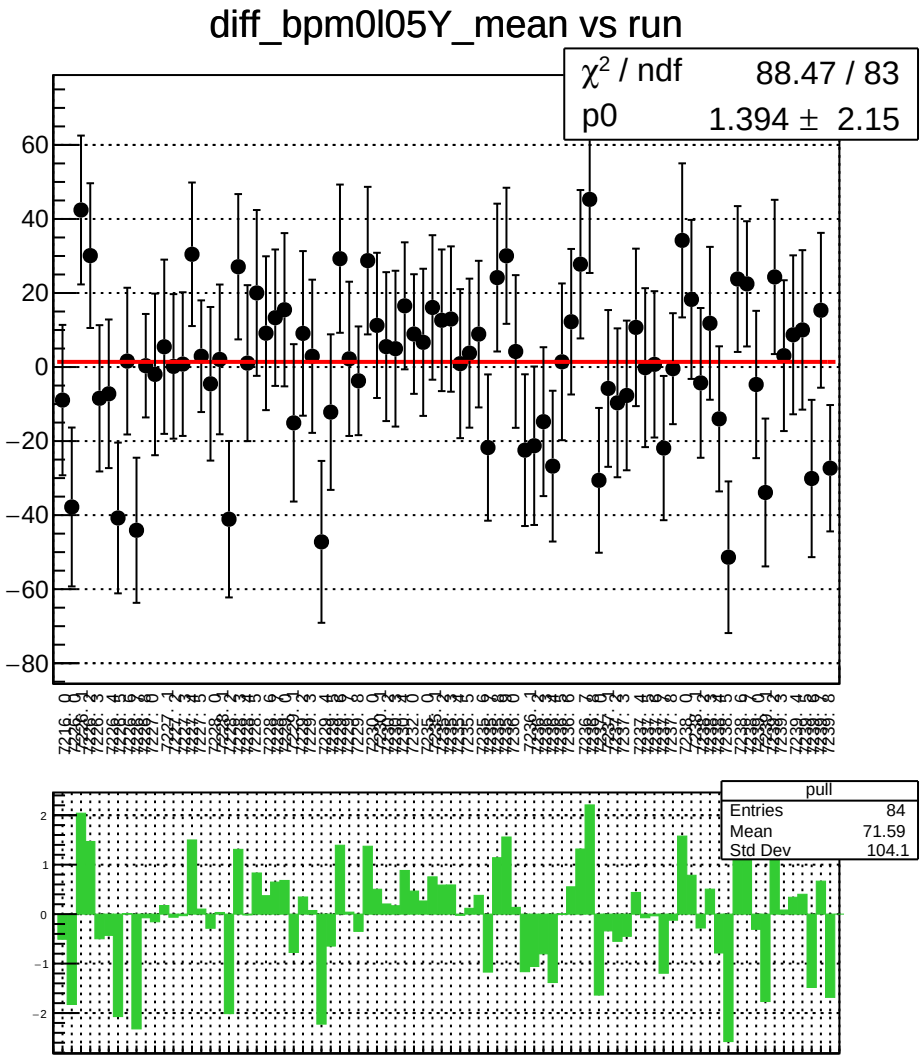

pull1D
Entries 84
Mean 0.0002297
Std Dev 1.203

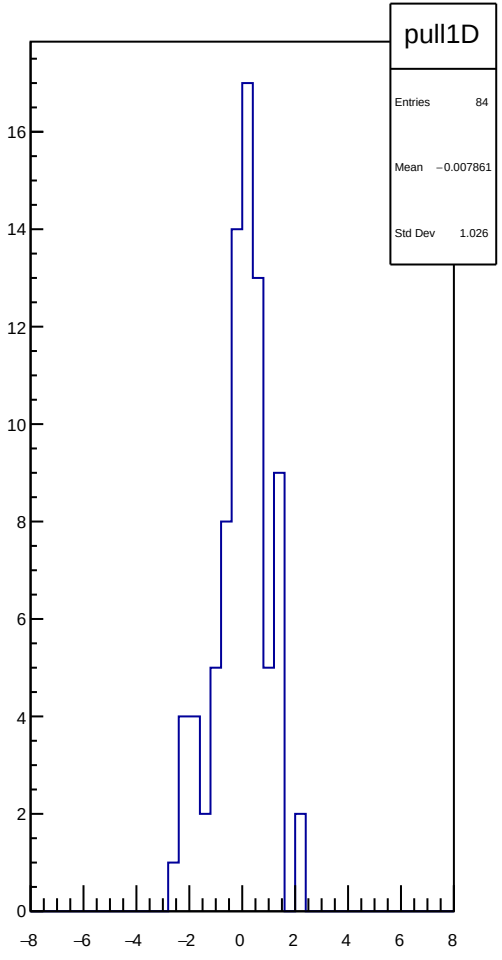

diff_bpm0l04Y_rms vs run
χ² / ndf 2020 / 83
p0 1591 ± 1.248
1800
1750
1700
1650
1600
1550
1500

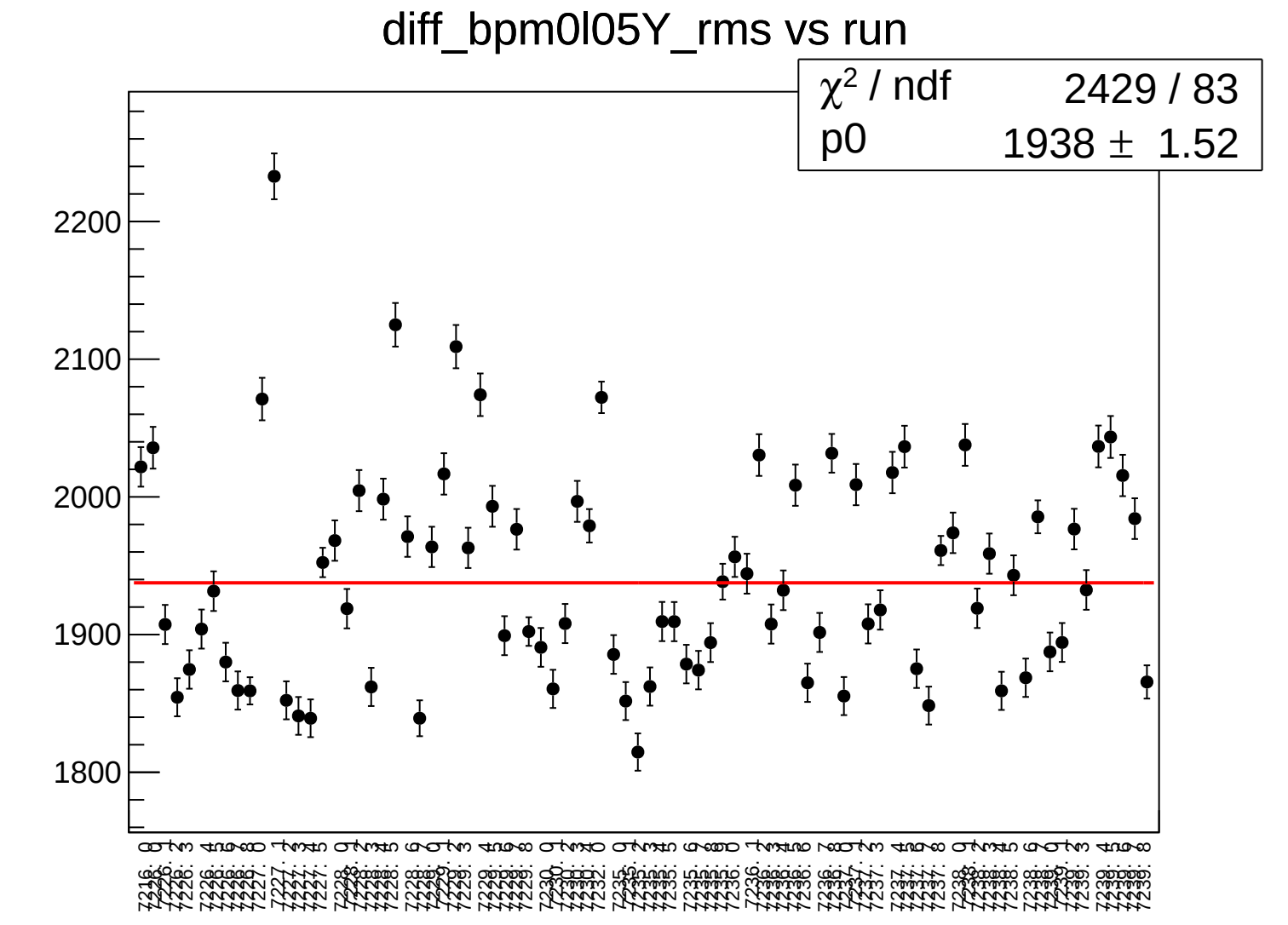

diff_bpm0l05X_mean vs run
χ² / ndf 106.8 / 83
p0 17.81 ± 7.601
pull
Entries 84
Mean 143.8
Std Dev 0

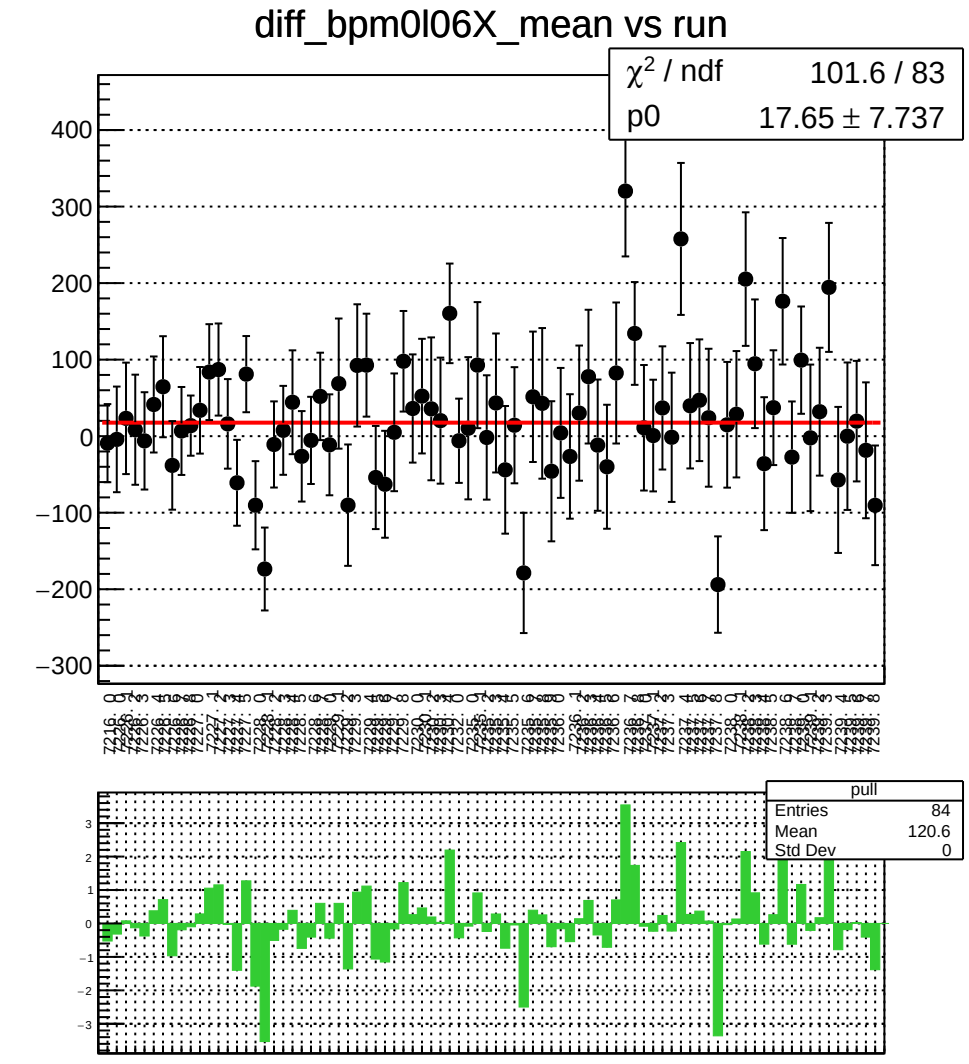

pull1D
Entries 84
Mean 0.02441
Std Dev 1.127

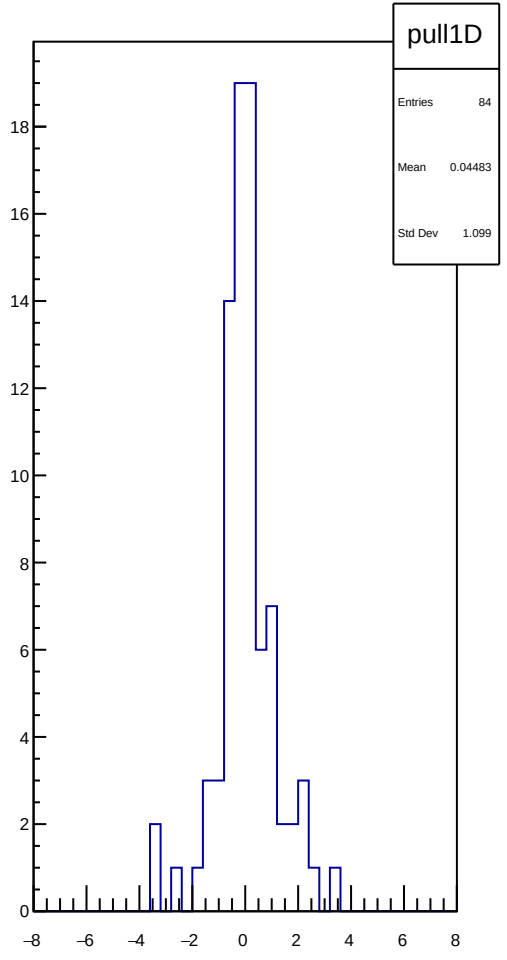

diff_bpm0l05X_rms vs run
χ^2 / ndf 4.095e+04 / 83
p0 6768 ± 5.375
9000
8000
7000
6000
5000

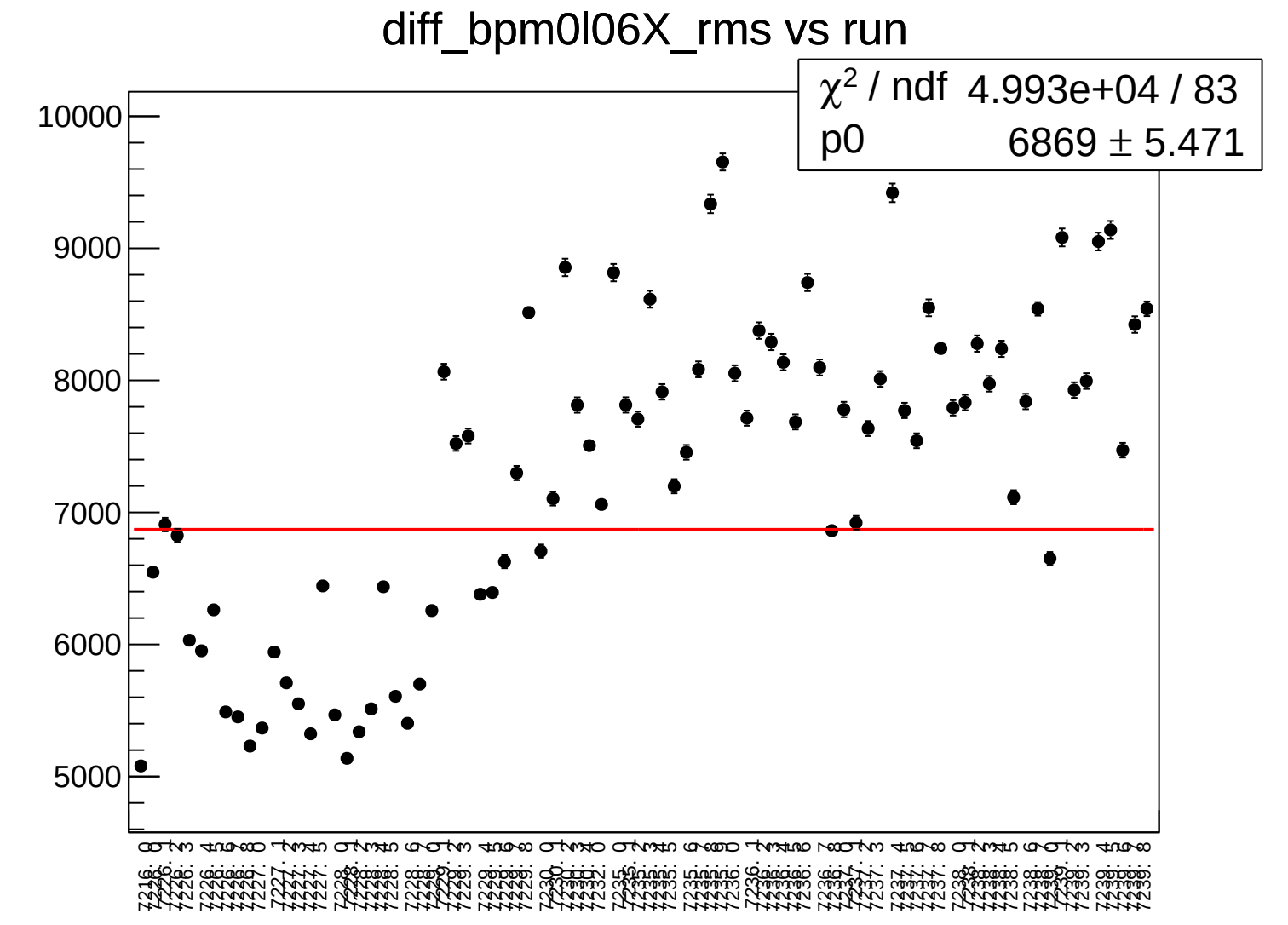

diff_bpm0l05Y_mean vs run
χ² / ndf 88.47 / 83
p0 1.394 ± 2.15
pull
Entries 84
Mean 71.59
Std Dev 104.1

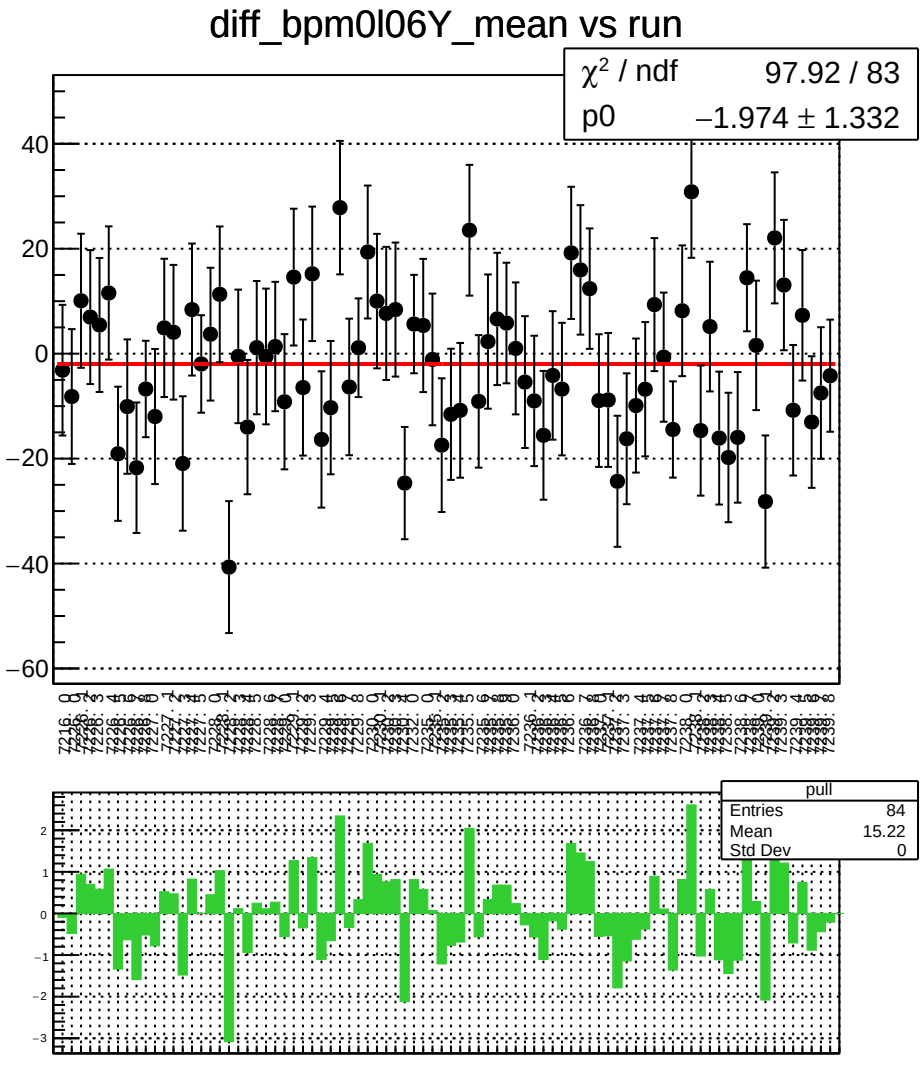

pull1D
Entries 84
Mean −0.007861
Std Dev 1.026

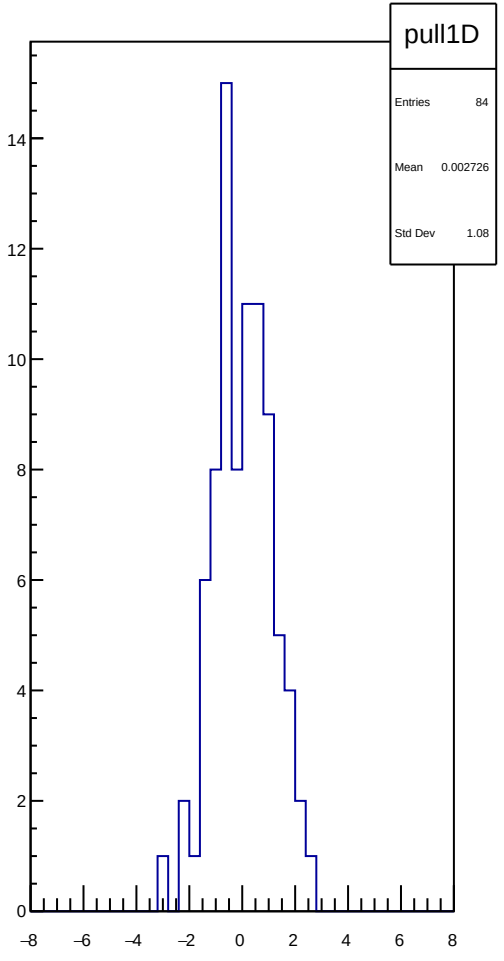

diff_bpm0l05Y_rms vs run
χ² / ndf 2429 / 83
p0 1938 ± 1.52
2200
2100
2000
1900
1800

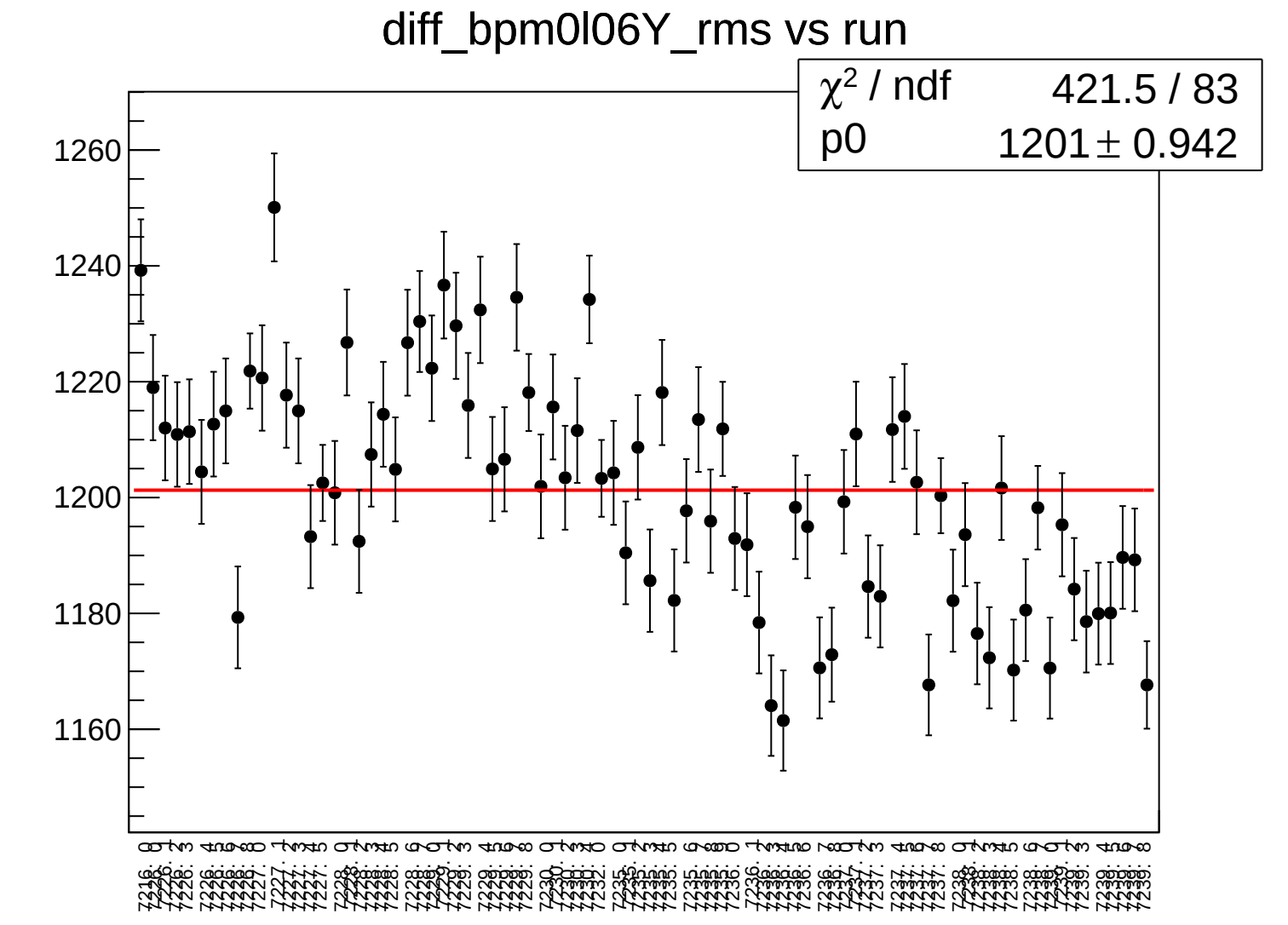

diff_bpm0l06X_mean vs run
χ² / ndf 101.6 / 83
p0 17.65 ± 7.737
pull
Entries 84
Mean 120.6
Std Dev 0

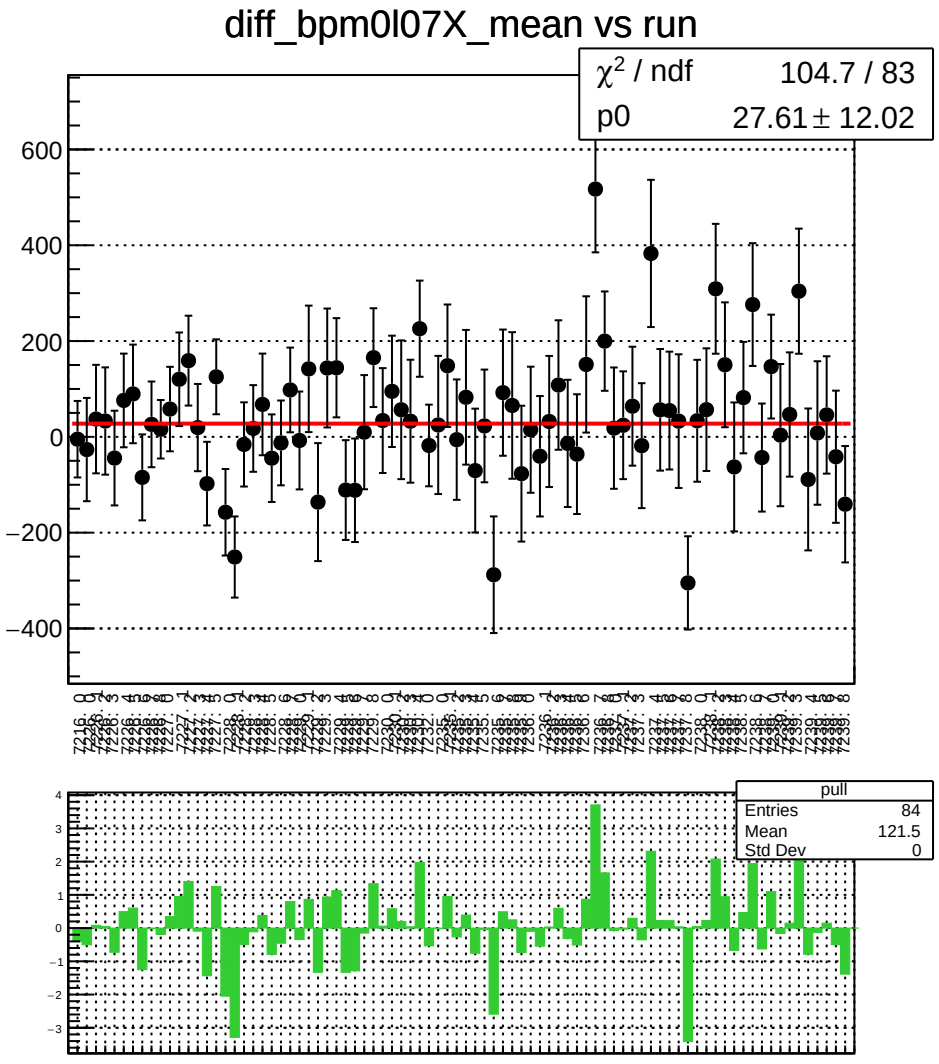

pull1D
Entries 84
Mean 0.04483
Std Dev 1.099

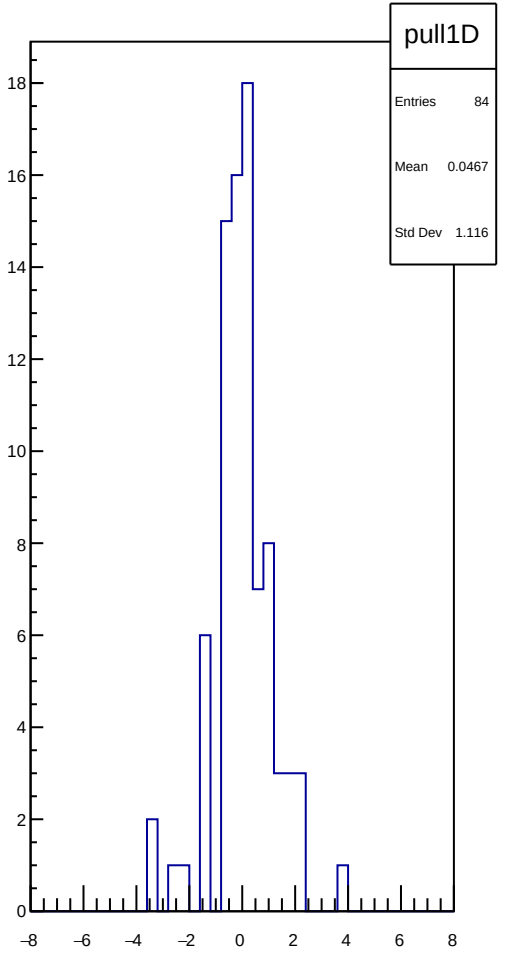

diff_bpm0l06X_rms vs run
χ^2 / ndf 4.993e+04 / 83
p0 6869 ± 5.471
10000
9000
8000
7000
6000
5000

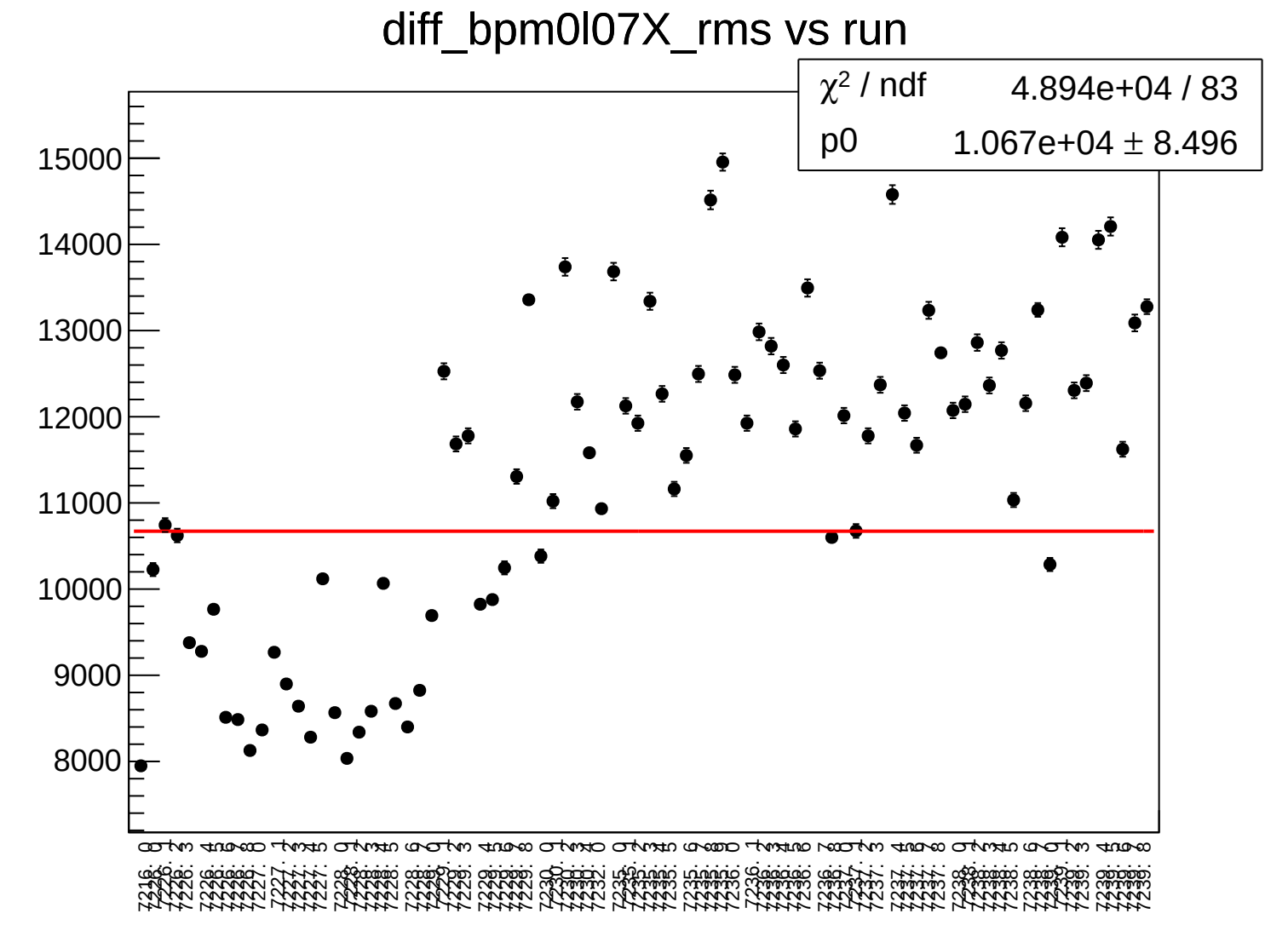

diff_bpm0l06Y_mean vs run
χ² / ndf 97.92 / 83
p0 −1.974 ± 1.332
pull
Entries 84
Mean 15.22
Std Dev 0

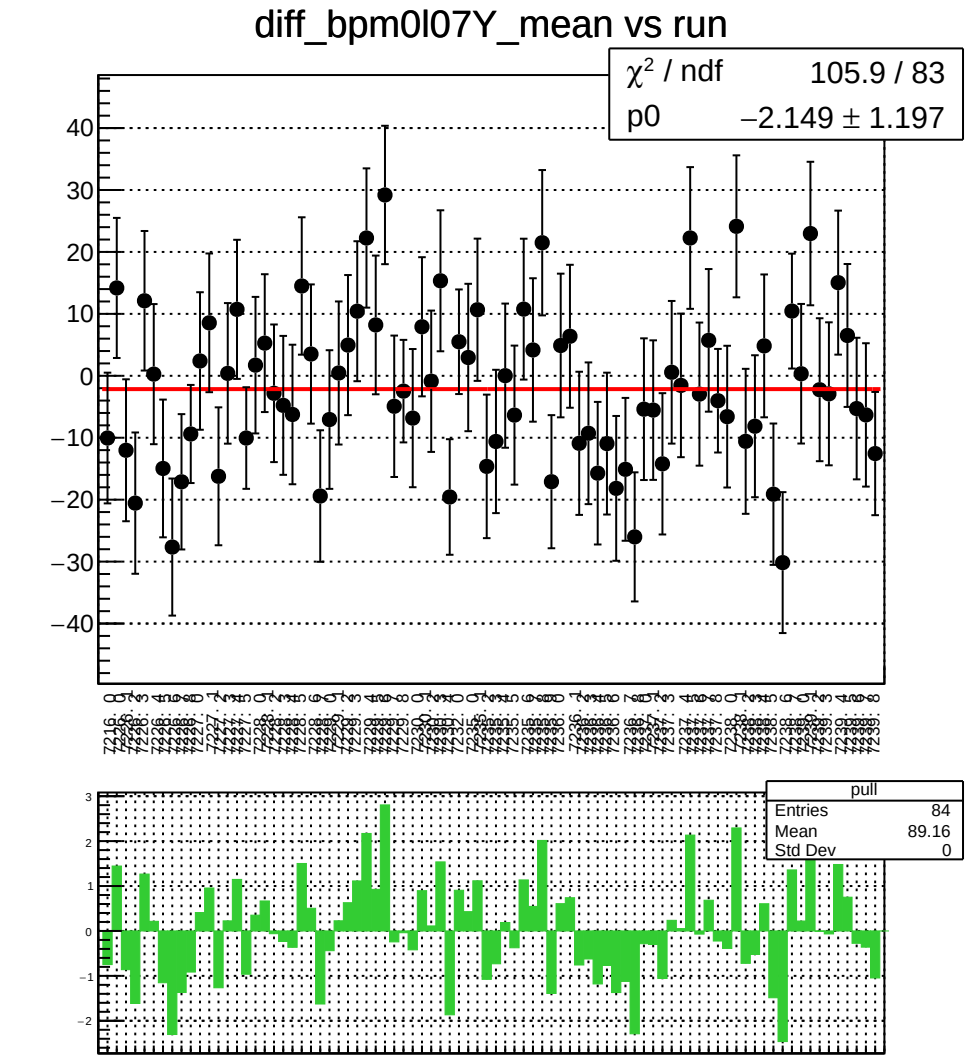

pull1D
Entries 84
Mean 0.002726
Std Dev 1.08

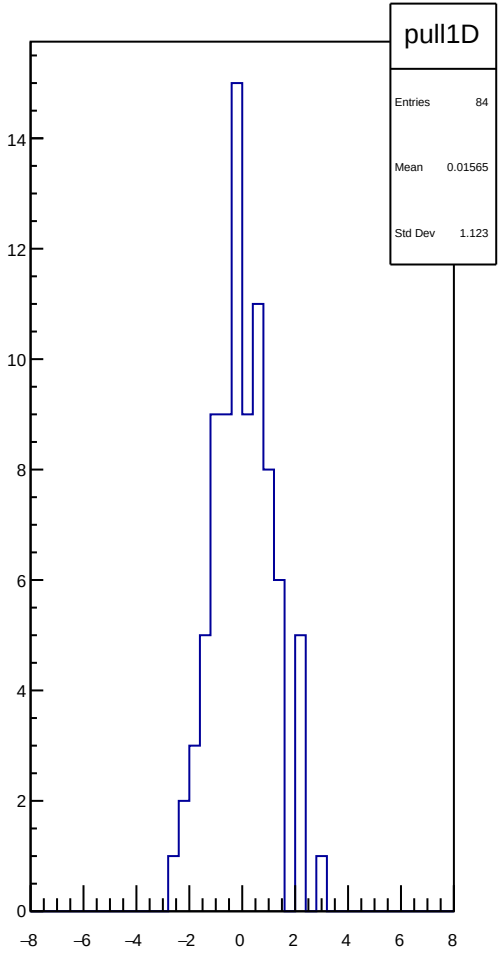

diff_bpm0l06Y_rms vs run
χ² / ndf 421.5 / 83
p0 1201 ± 0.942
1260
1240
1220
1200
1180
1160

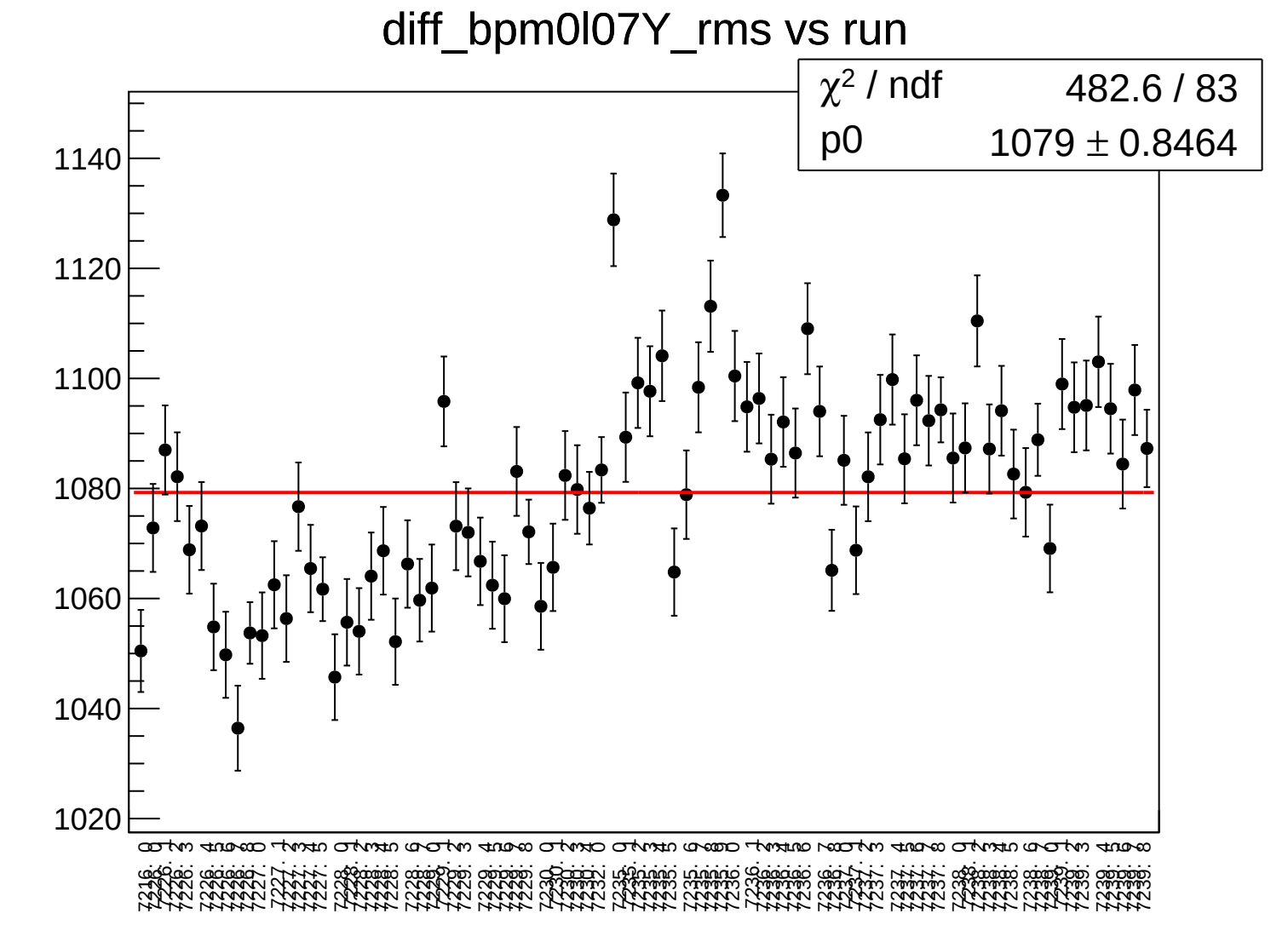

diff_bpm0l07X_mean vs run
χ² / ndf 104.7 / 83
p0 27.61 ± 12.02
600
400
200
0
−200
−400
pull
Entries 84
Mean 121.5
Std Dev 0
4
3
2
1
0
−1
−2
−3

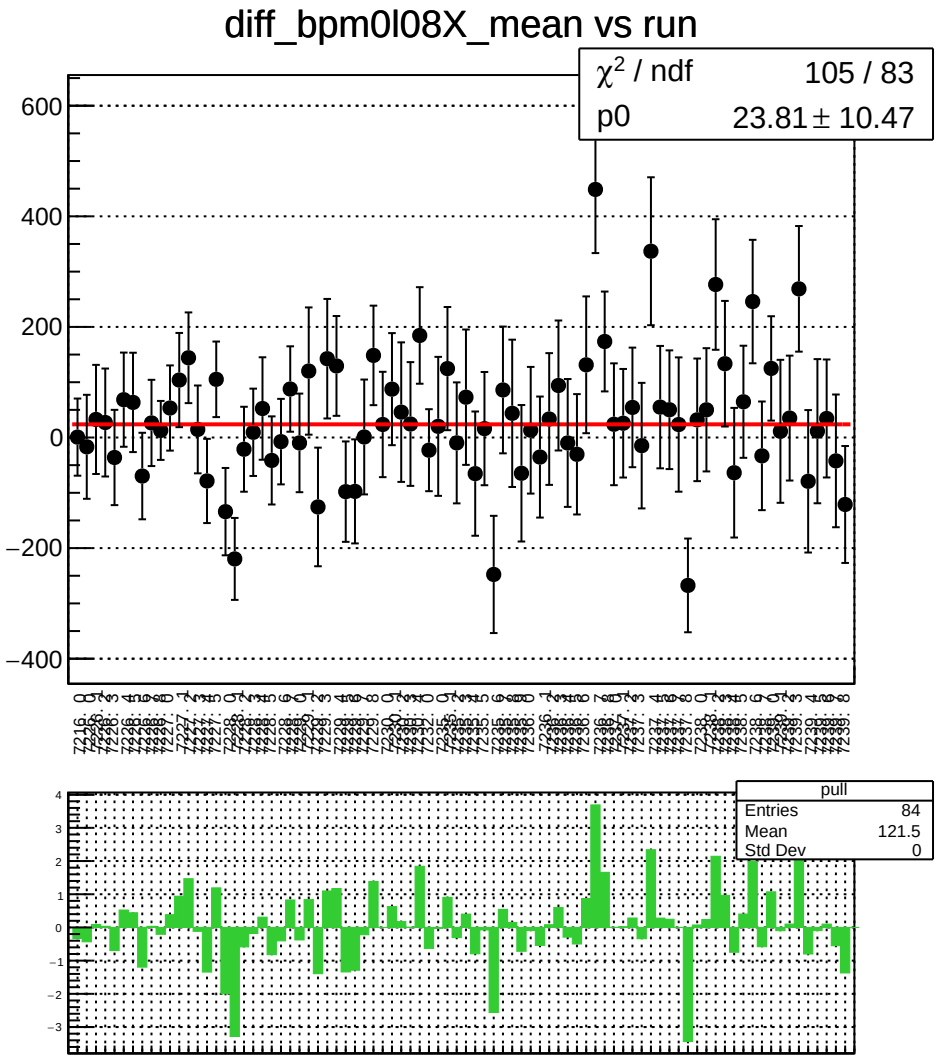

pull1D
Entries 84
Mean 0.0467
Std Dev 1.116
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

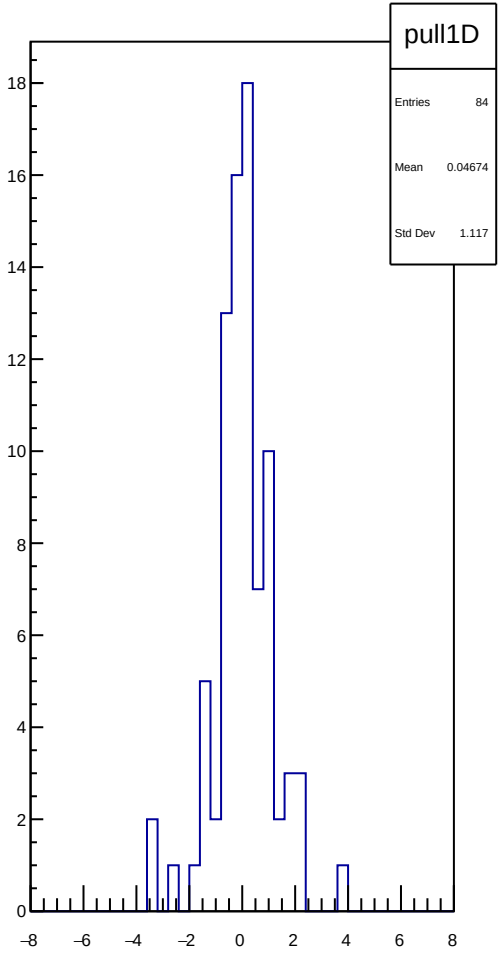

diff_bpm0l07X_rms vs run
χ² / ndf 4.894e+04 / 83
p0 1.067e+04 ± 8.496
15000
14000
13000
12000
11000
10000
9000
8000

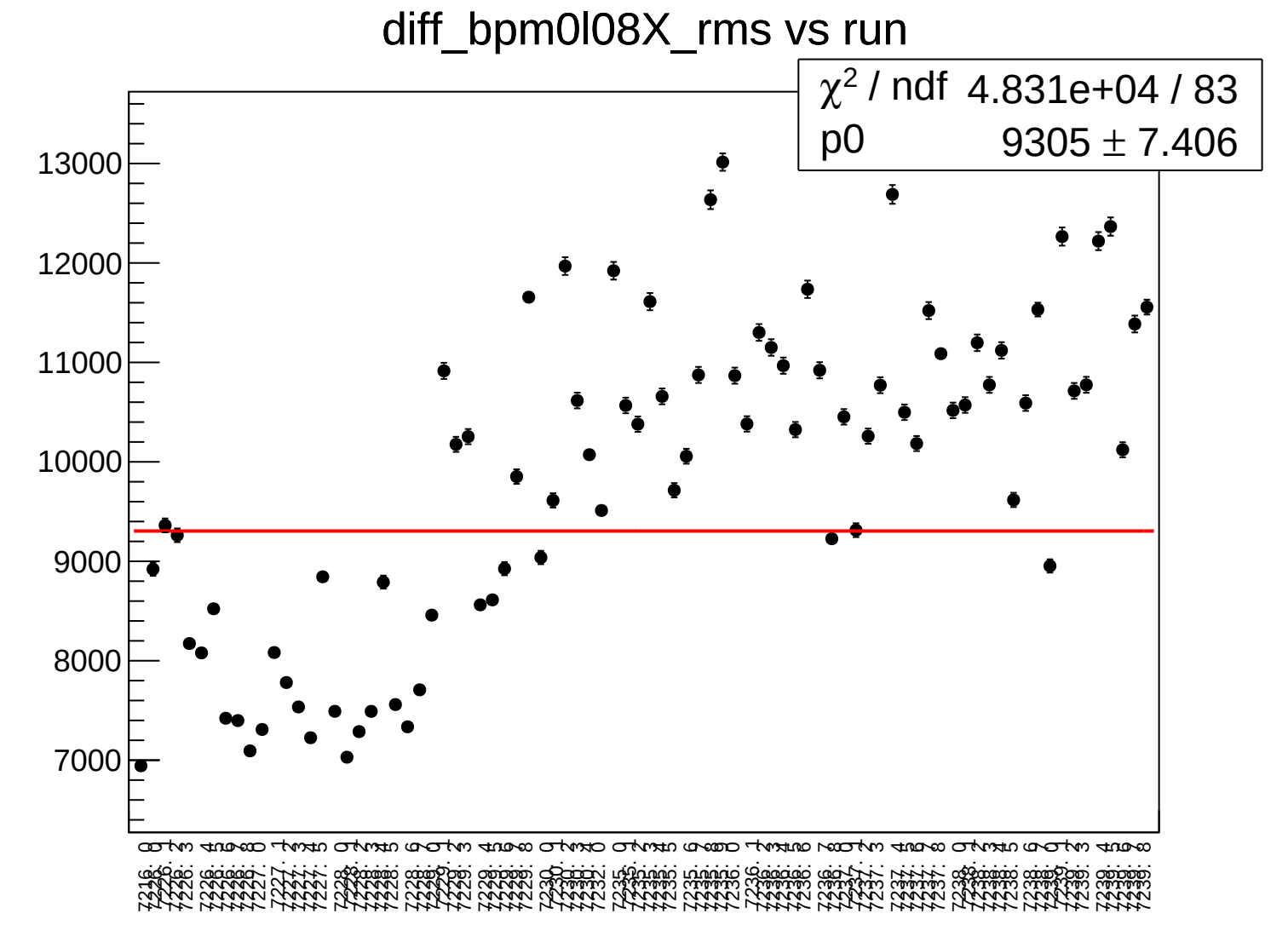

diff_bpm0l07Y_mean vs run
χ² / ndf 105.9 / 83
p0 −2.149 ± 1.197
pull
Entries 84
Mean 89.16
Std Dev 0

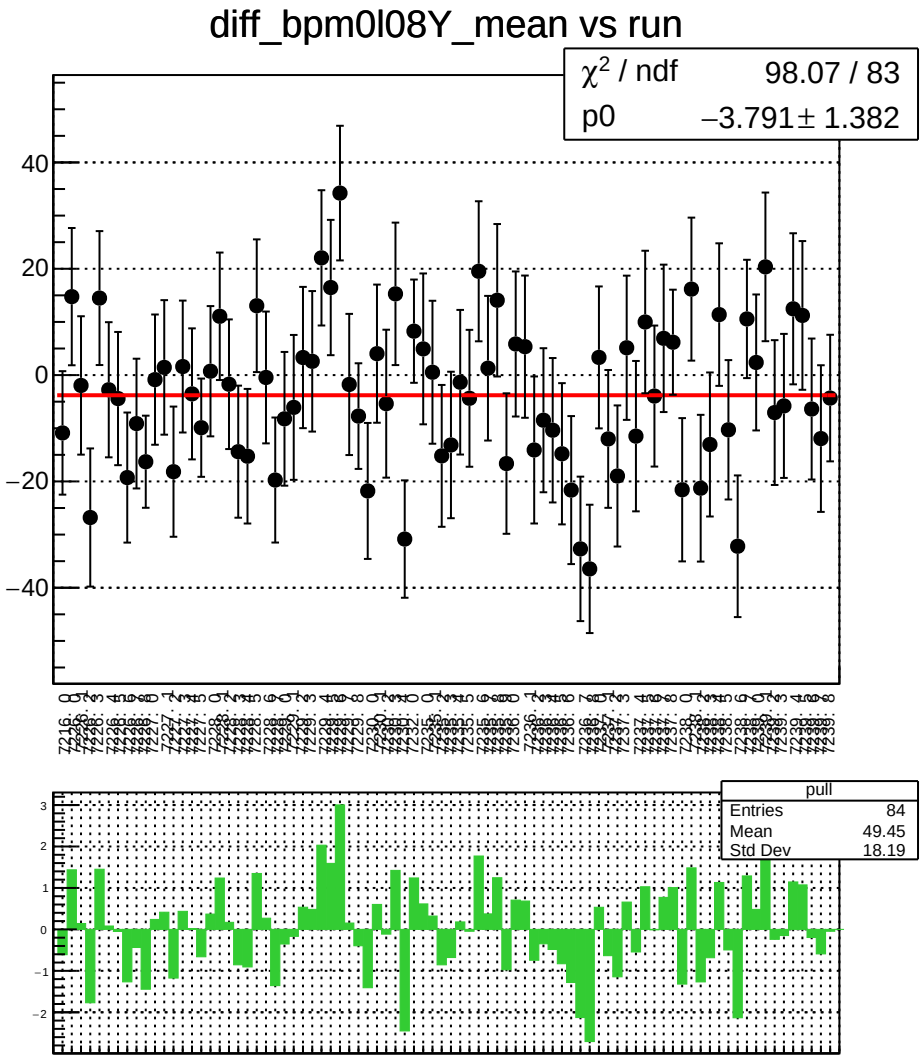

pull1D
Entries 84
Mean 0.01565
Std Dev 1.123

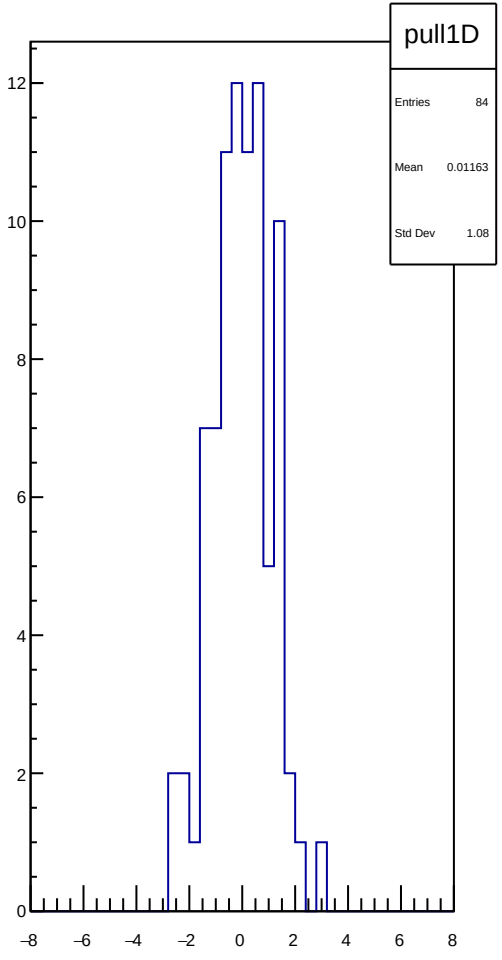

diff_bpm0l07Y_rms vs run
χ² / ndf 482.6 / 83
p0 1079 ± 0.8464
1140
1120
1100
1080
1060
1040
1020

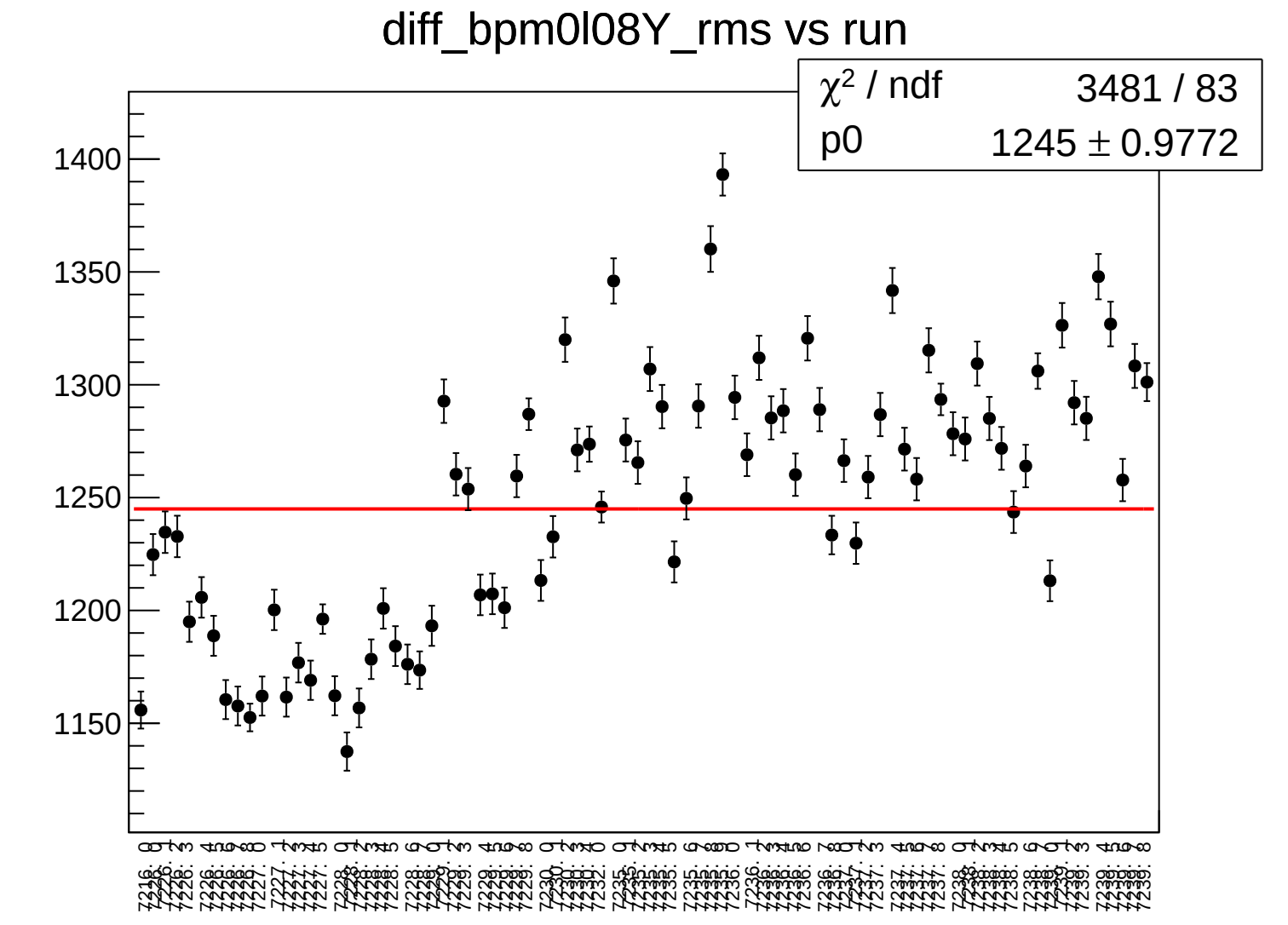

diff_bpm0l08X_mean vs run
χ^2 / ndf 105 / 83
p0 23.81 ± 10.47
pull
Entries 84
Mean 121.5
Std Dev 0

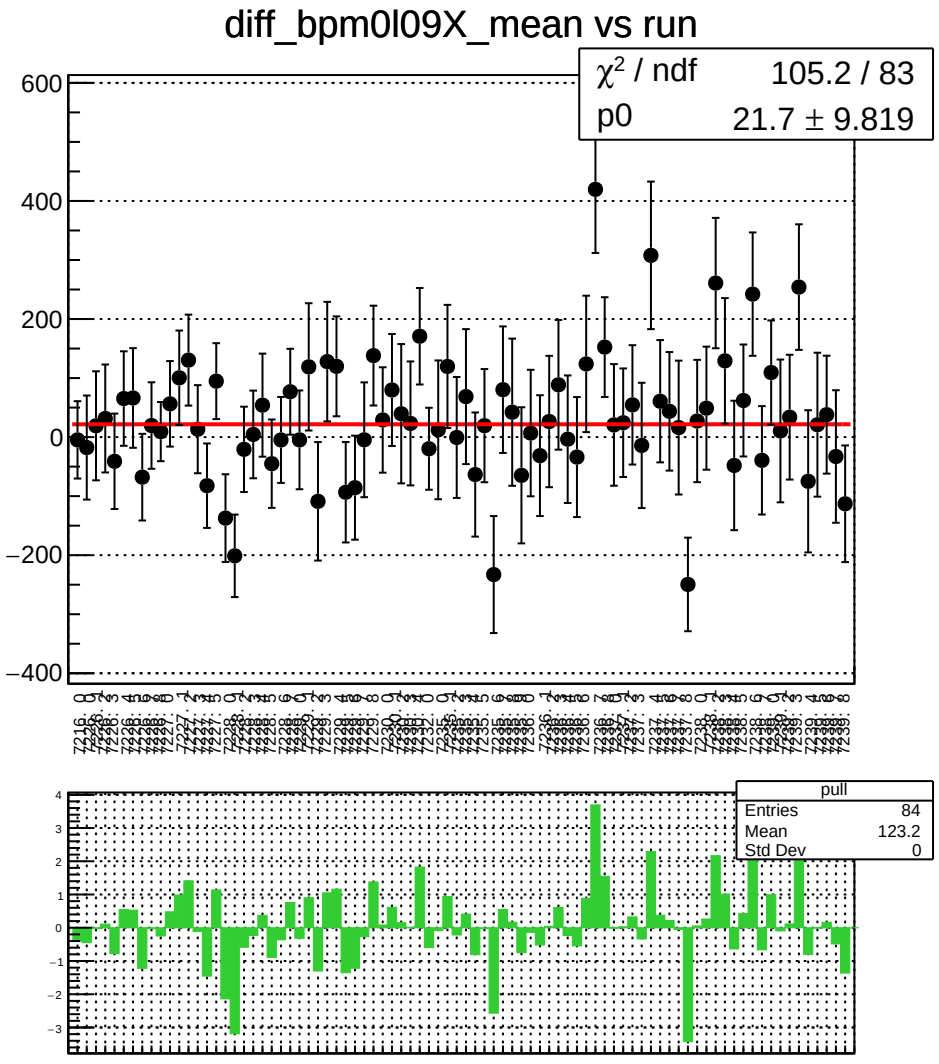

pull1D
Entries 84
Mean 0.04674
Std Dev 1.117

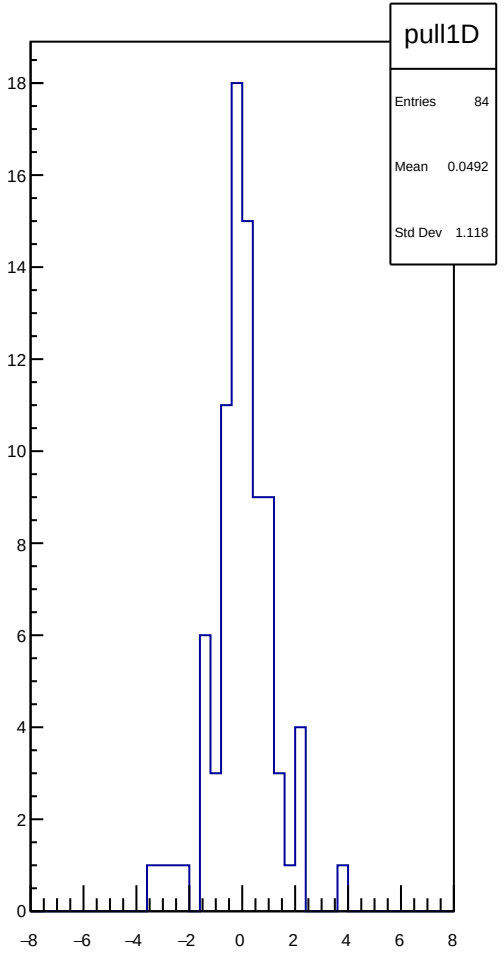

diff_bpm0l08X_rms vs run
χ² / ndf 4.831e+04 / 83
p0 9305 ± 7.406
13000
12000
11000
10000
9000
8000
7000

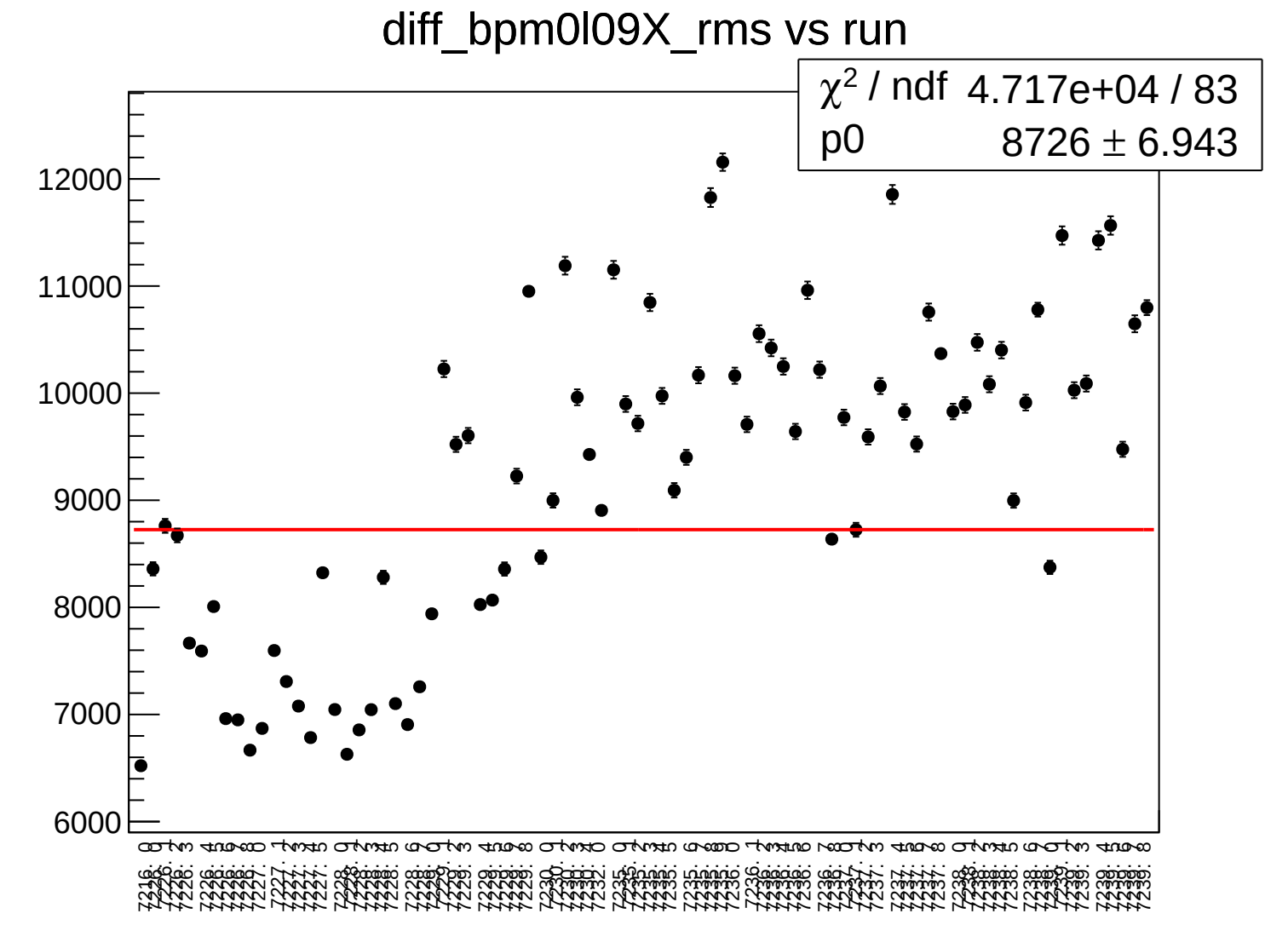

diff_bpm0l08Y_mean vs run
χ² / ndf 98.07 / 83
p0 −3.791 ± 1.382
pull
Entries 84
Mean 49.45
Std Dev 18.19

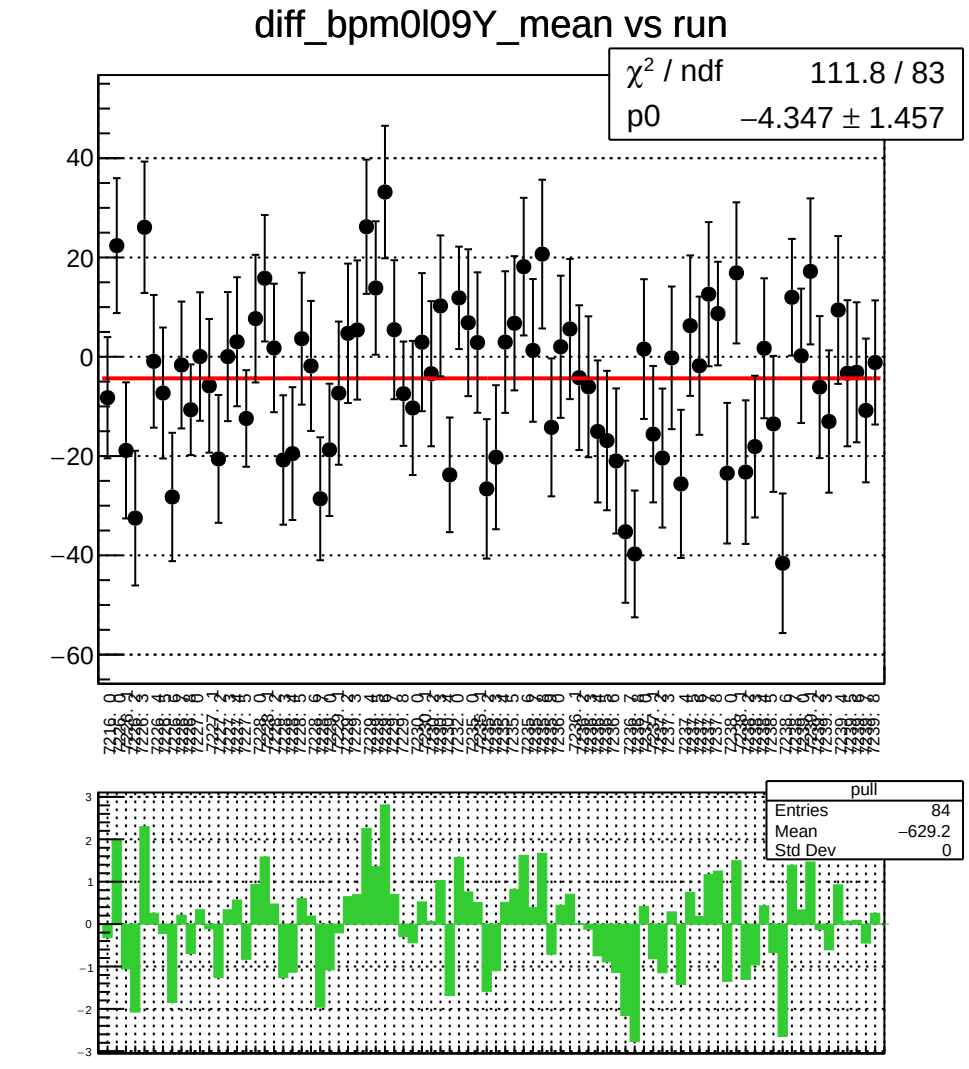

pull1D
Entries 84
Mean 0.01163
Std Dev 1.08

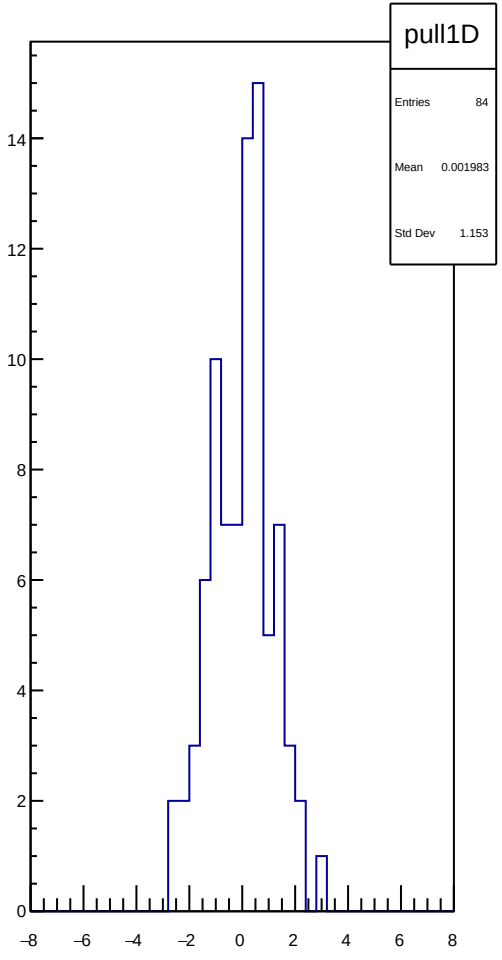

diff_bpm0l08Y_rms vs run
χ² / ndf 3481 / 83
p0 1245 ± 0.9772
1400
1350
1300
1250
1200
1150

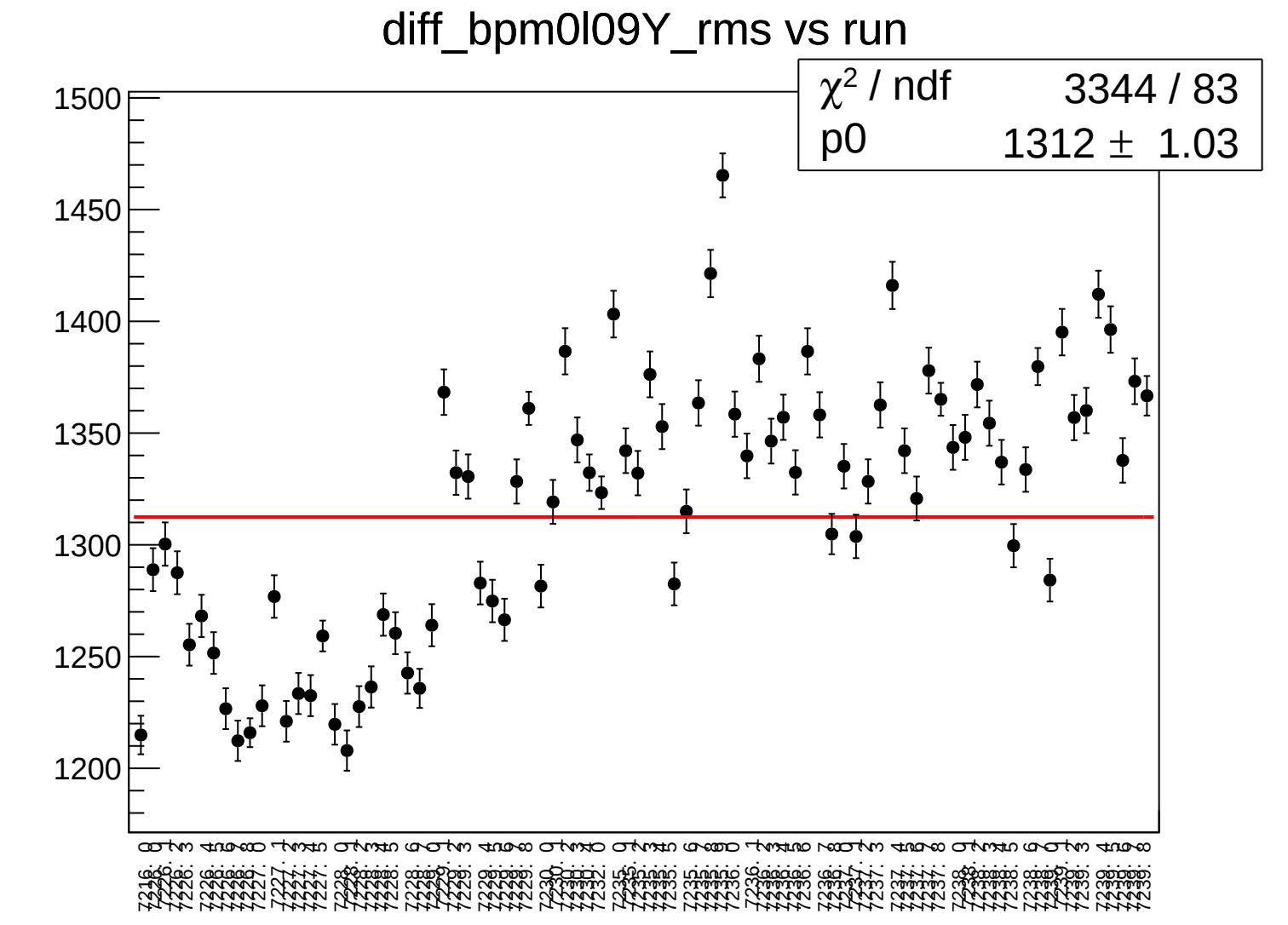

diff_bpm0l09X_mean vs run
χ² / ndf 105.2 / 83
p0 21.7 ± 9.819
pull
Entries 84
Mean 123.2
Std Dev 0

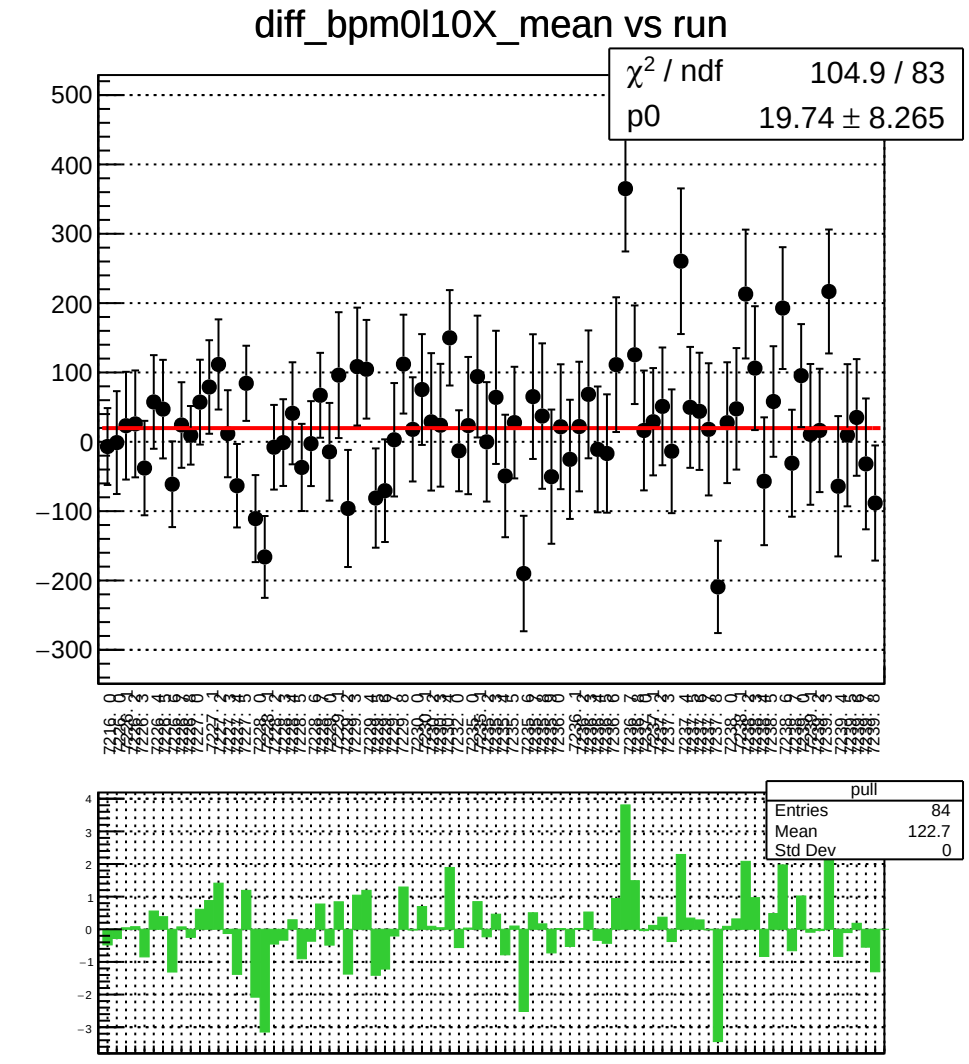

pull1D
Entries 84
Mean 0.0492
Std Dev 1.118

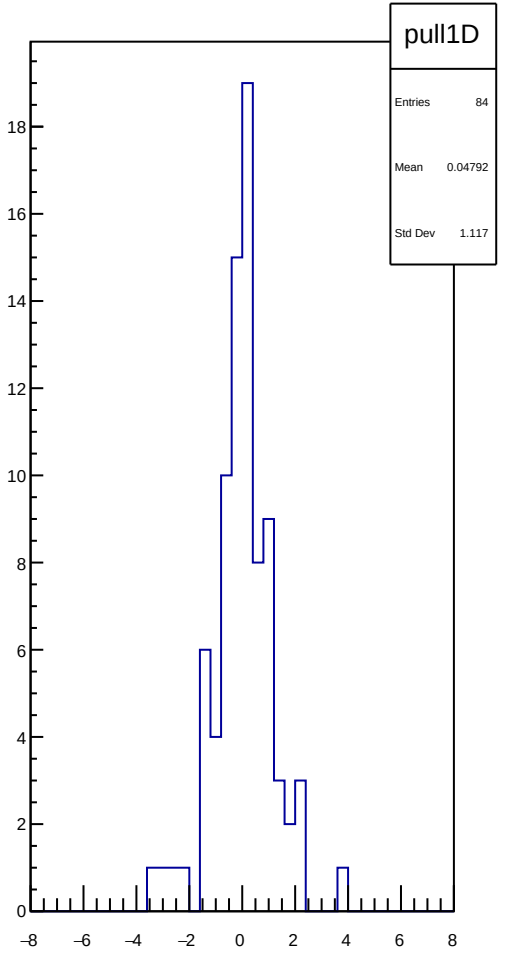

diff_bpm0l09X_rms vs run
χ² / ndf 4.717e+04 / 83
p0 8726 ± 6.943
12000
11000
10000
9000
8000
7000
6000

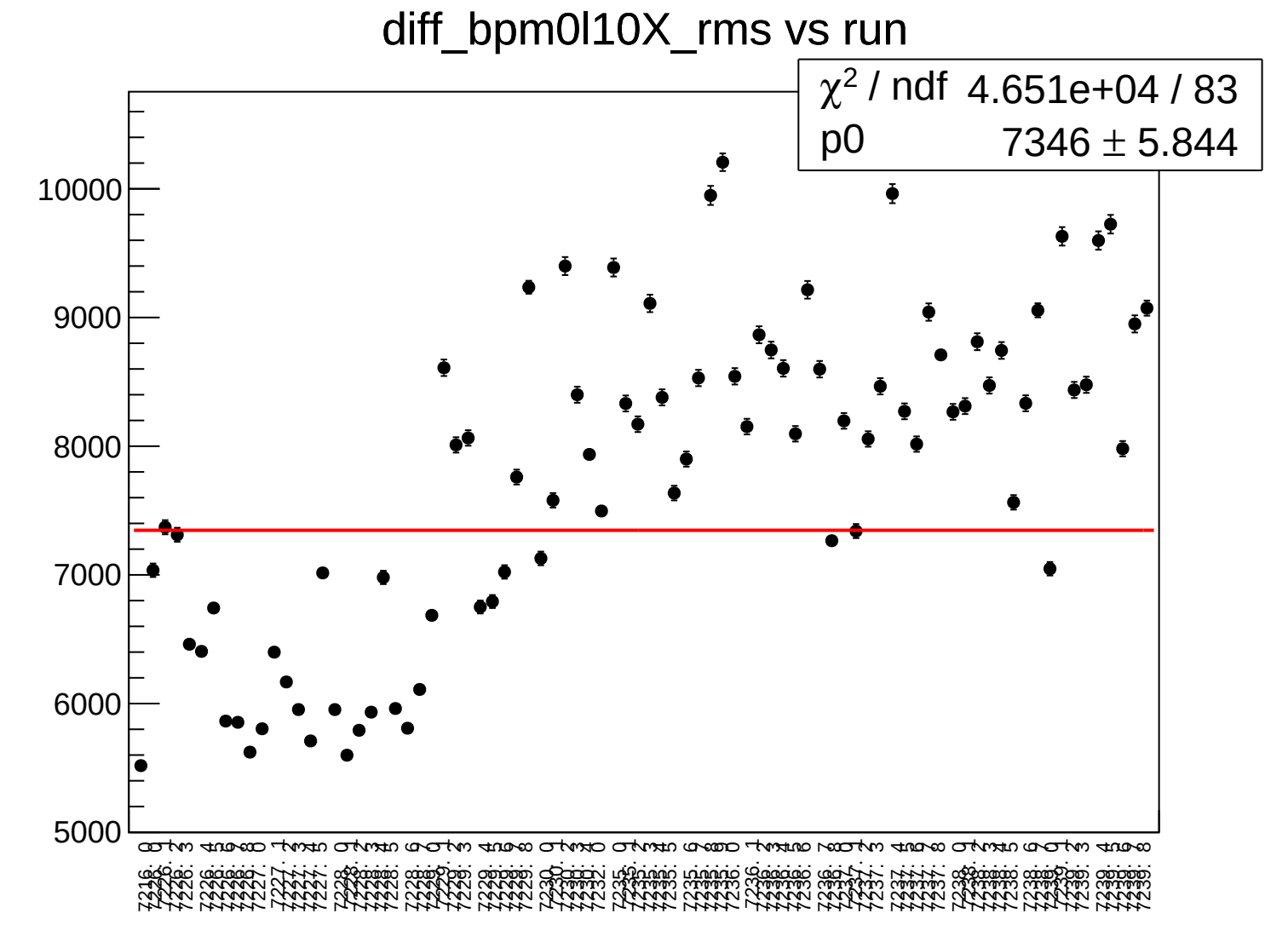

diff_bpm0l09Y_mean vs run
χ² / ndf 111.8 / 83
p0 −4.347 ± 1.457
pull
Entries 84
Mean −629.2
Std Dev 0

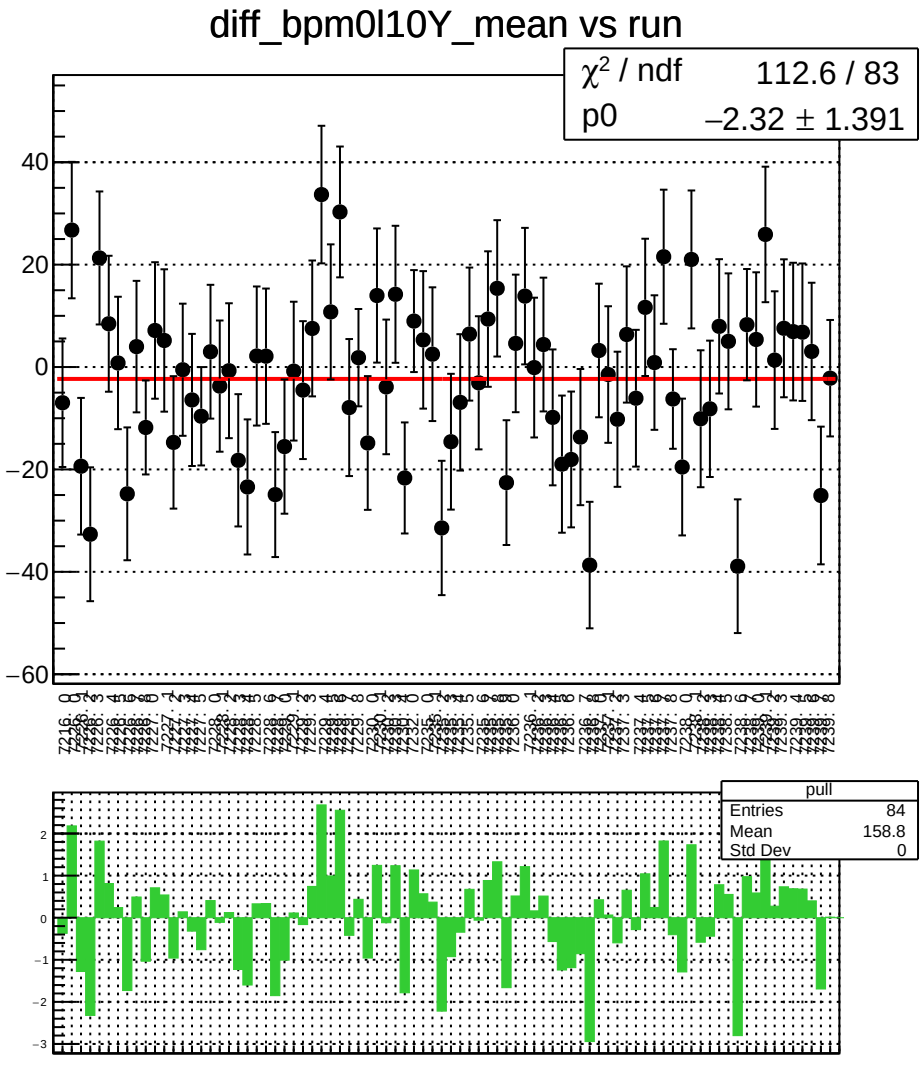

pull1D
Entries 84
Mean 0.001983
Std Dev 1.153

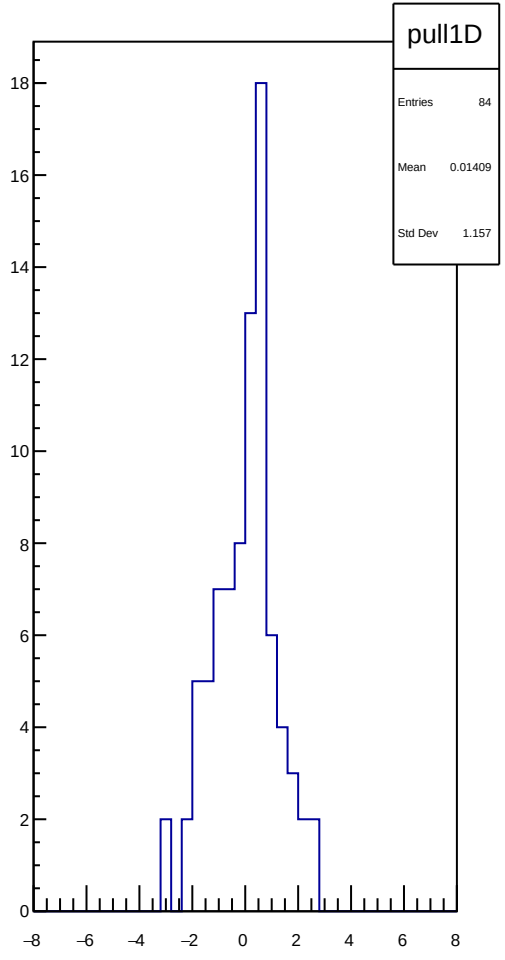

diff_bpm0l09Y_rms vs run
χ² / ndf 3344 / 83
p0 1312 ± 1.03
1500
1450
1400
1350
1300
1250
1200

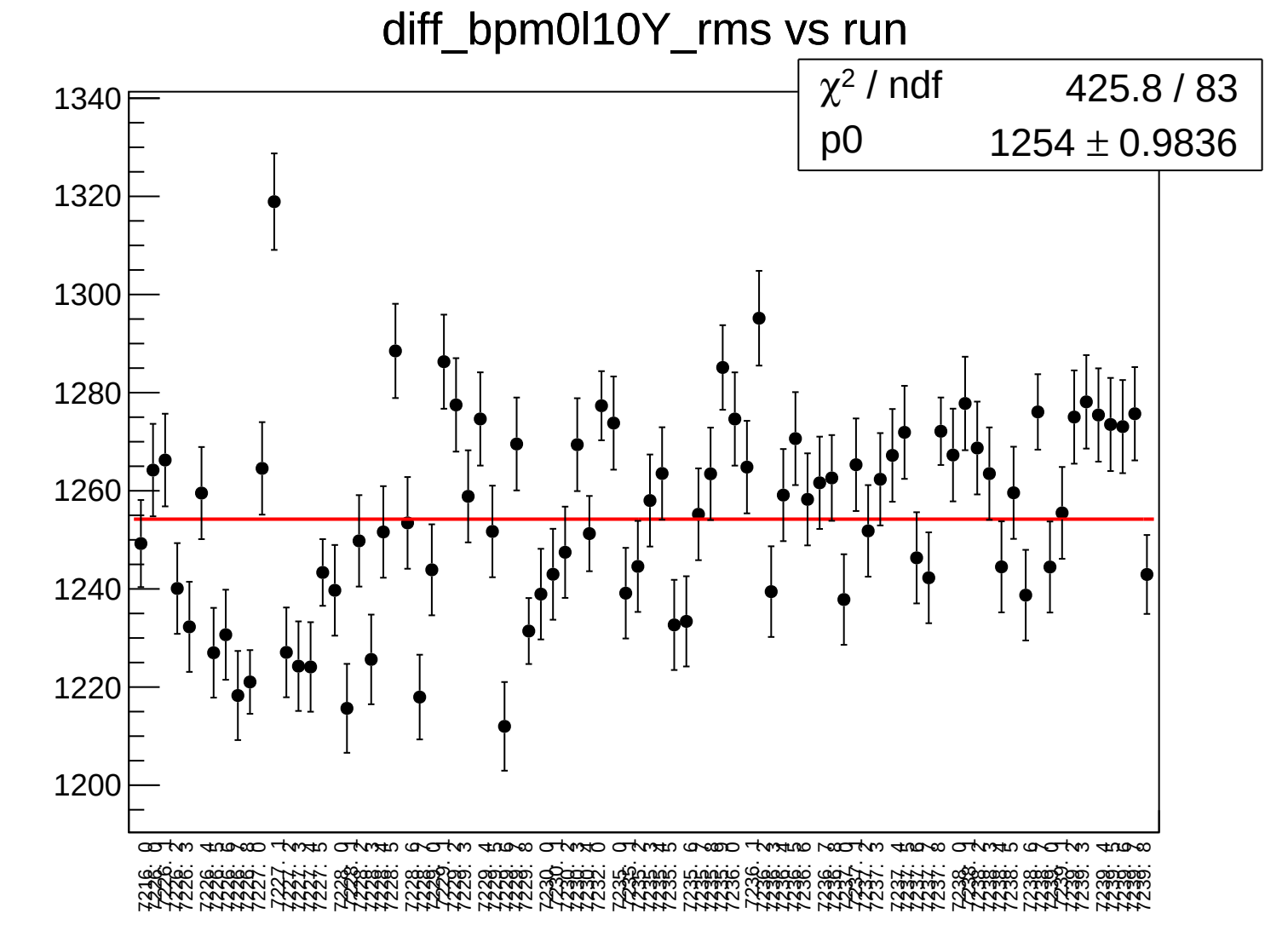

diff_bpm0l10X_mean vs run
χ² / ndf 104.9 / 83
p0 19.74 ± 8.265
pull
Entries 84
Mean 122.7
Std Dev 0

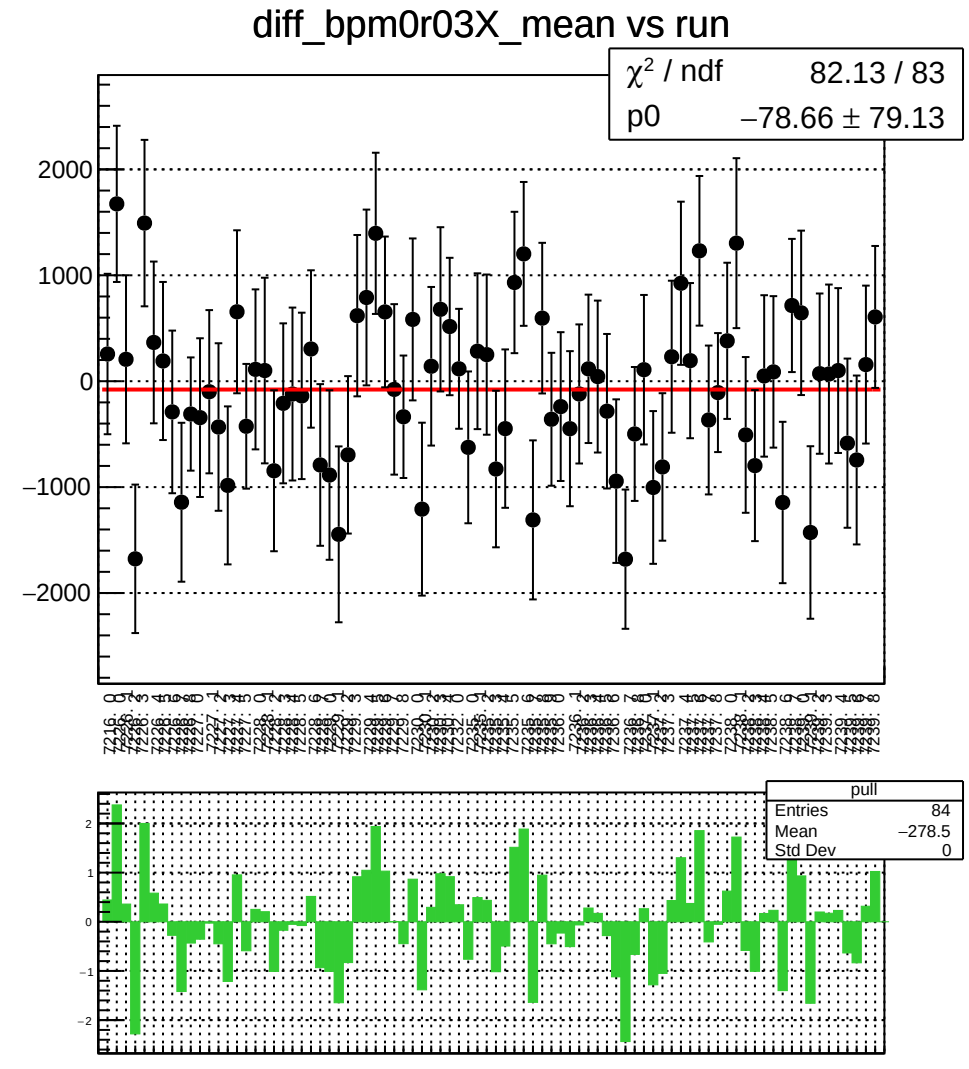

pull1D
Entries 84
Mean 0.04792
Std Dev 1.117

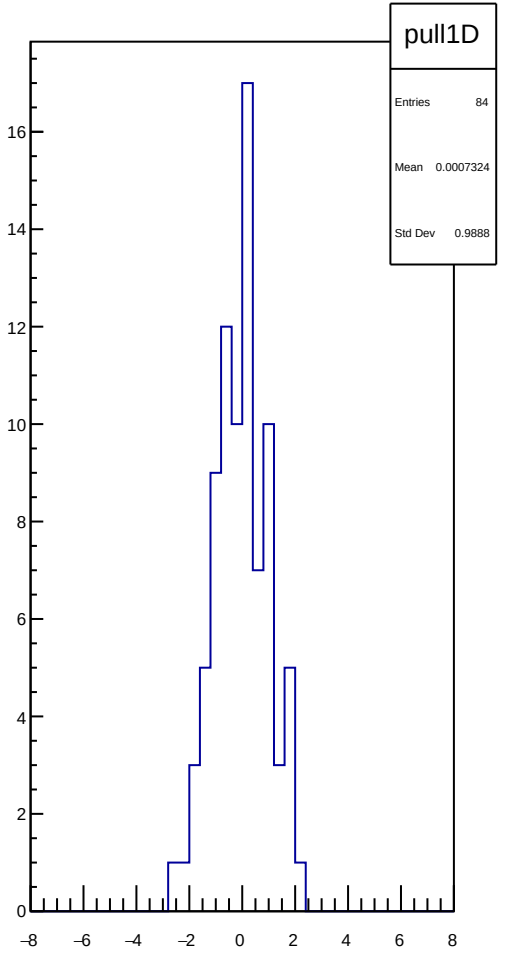

diff_bpm0l10X_rms vs run
χ² / ndf 4.651e+04 / 83
p0 7346 ± 5.844
10000
9000
8000
7000
6000
5000

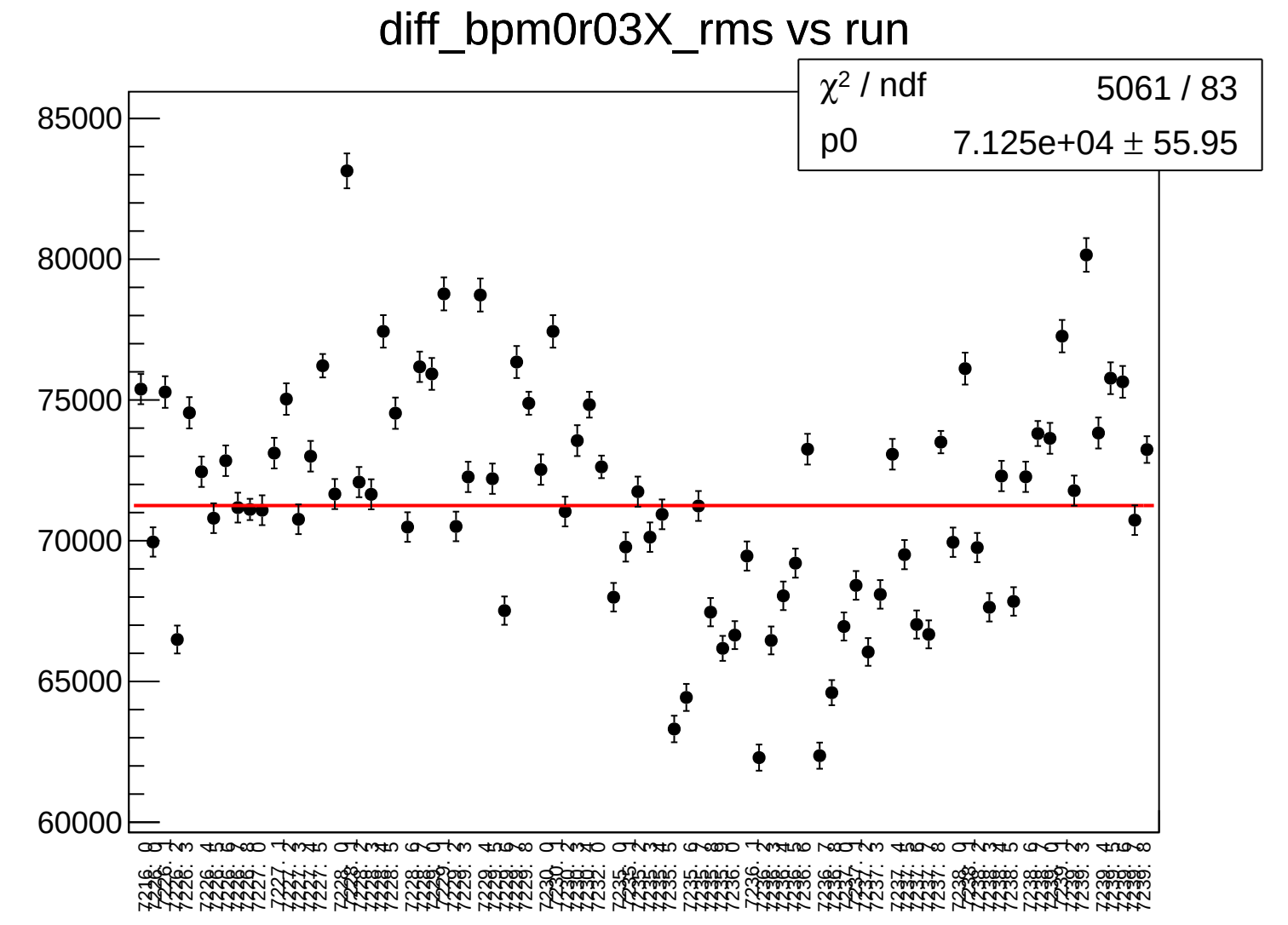

diff_bpm0l10Y_mean vs run
χ² / ndf 112.6 / 83
p0 −2.32 ± 1.391
pull
Entries 84
Mean 158.8
Std Dev 0

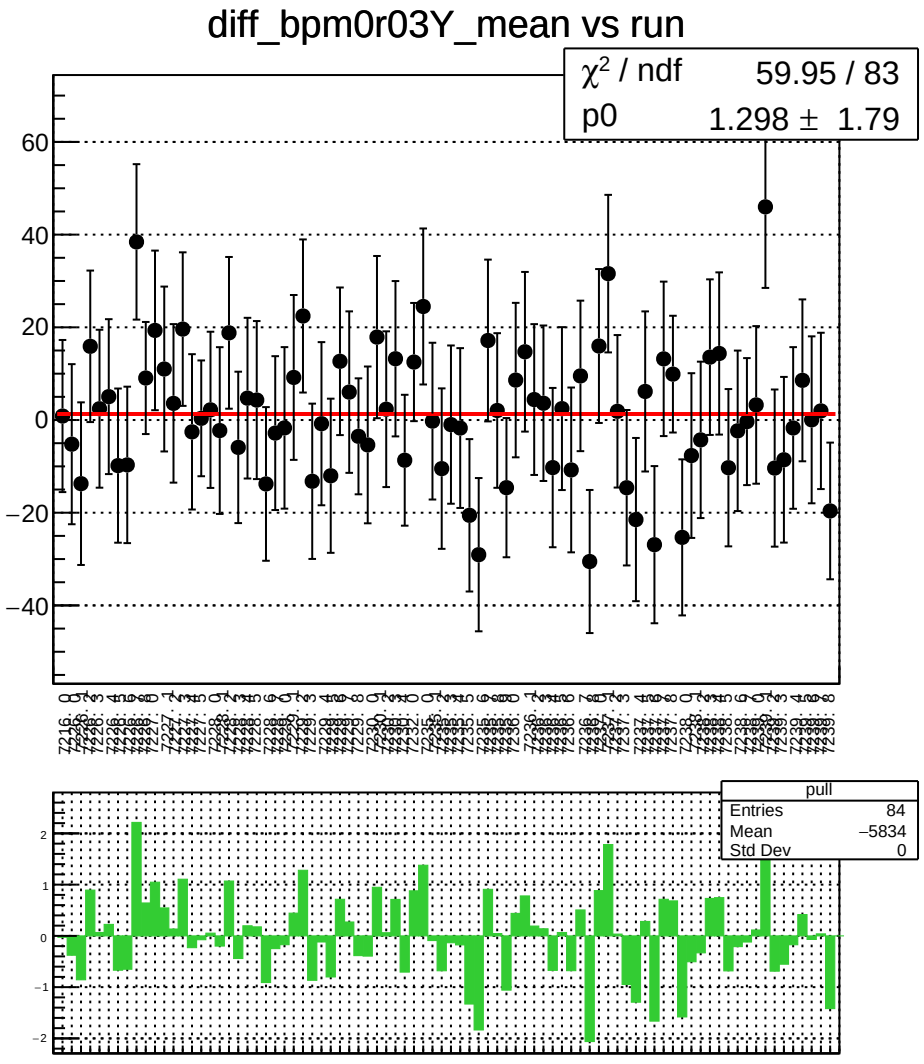

pull1D
Entries 84
Mean 0.01409
Std Dev 1.157

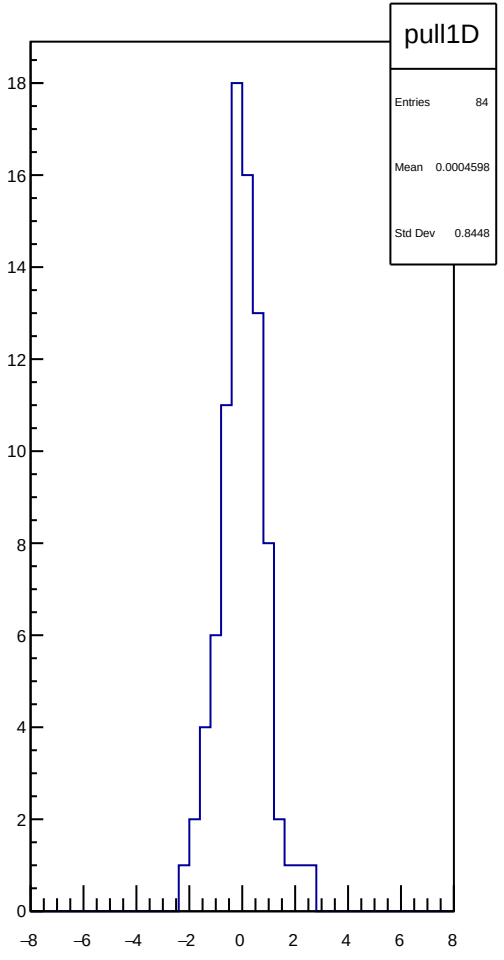

diff_bpm0l10Y_rms vs run
χ² / ndf 425.8 / 83
p0 1254 ± 0.9836
1340
1320
1300
1280
1260
1240
1220
1200

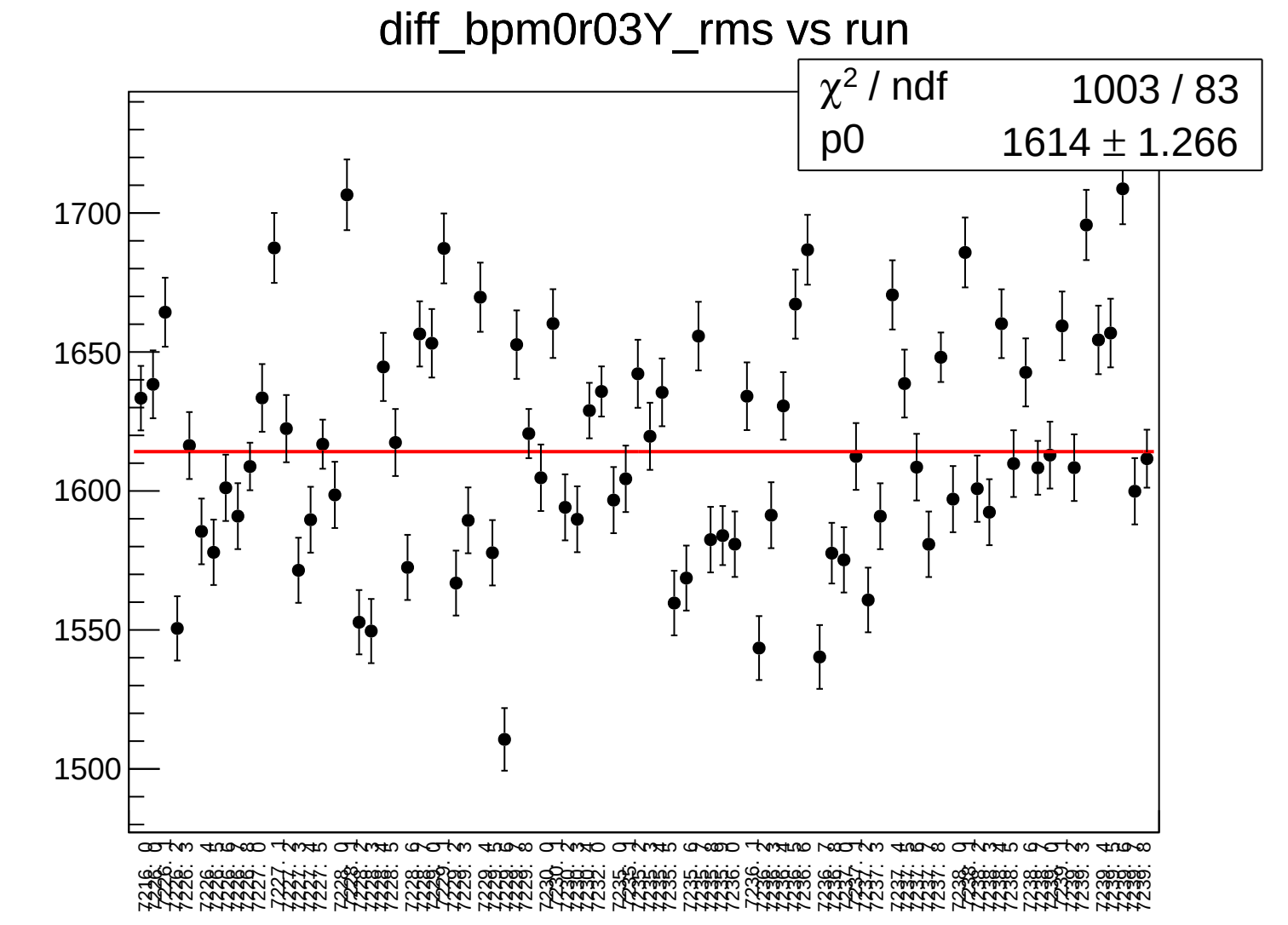

diff_bpm0r03X_mean vs run
χ² / ndf 82.13 / 83
p0 −78.66 ± 79.13
2000
1000
0
−1000
−2000
pull
Entries 84
Mean −278.5
Std Dev 0
2
1
0
−1
−2

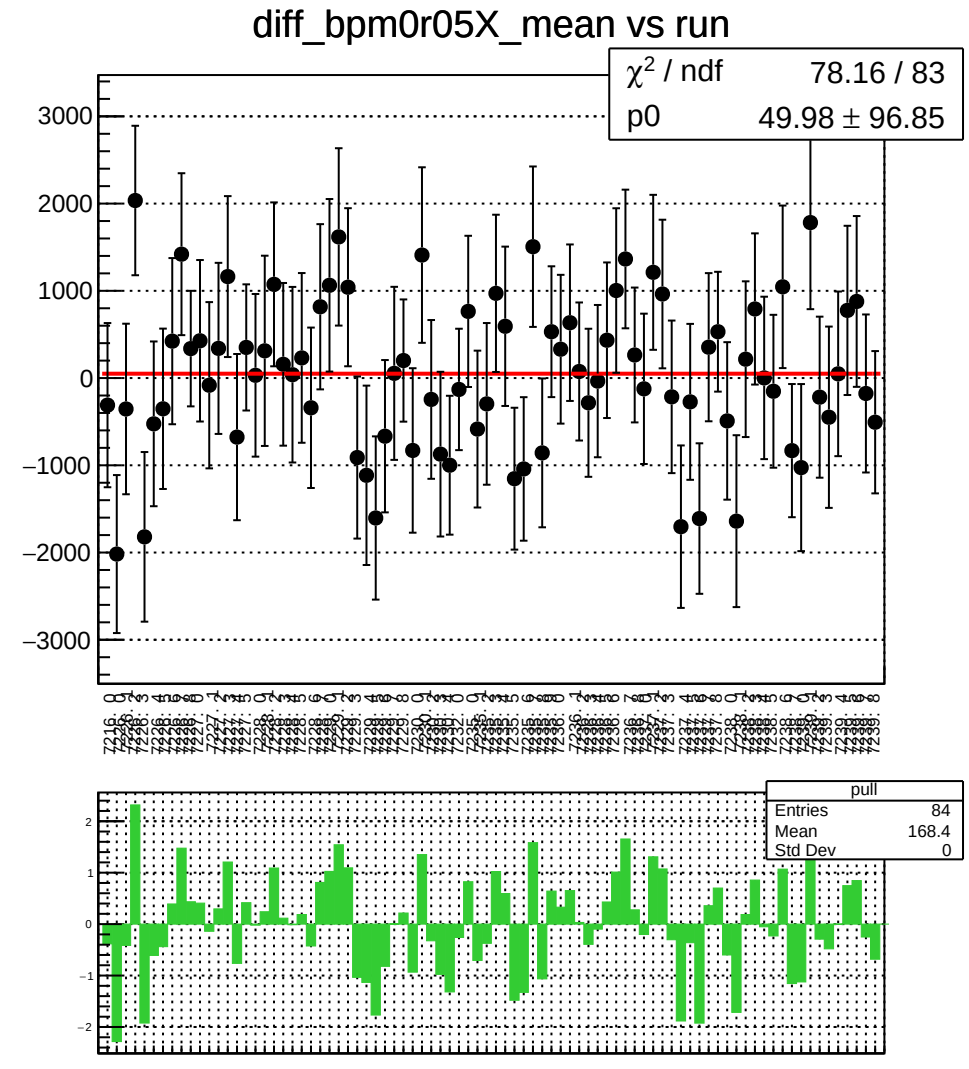

pull1D
Entries 84
Mean 0.0007324
Std Dev 0.9888
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

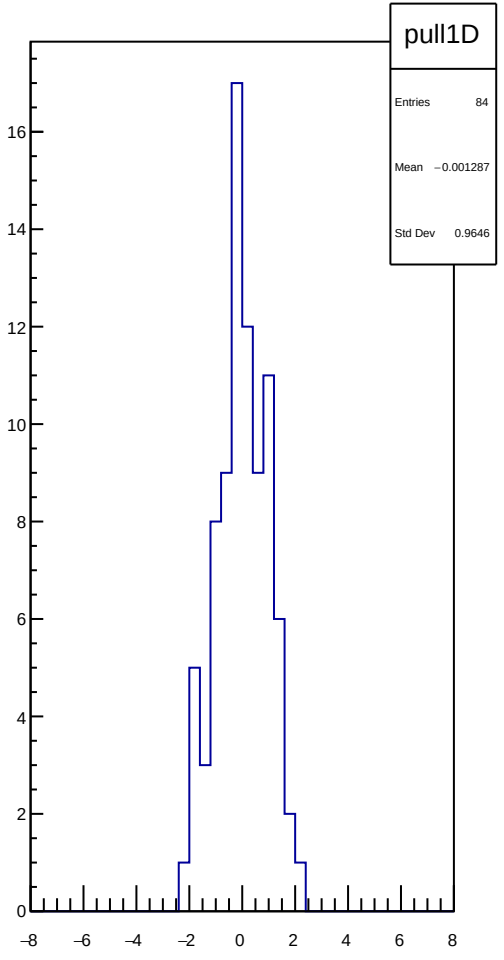

diff_bpm0r03X_rms vs run
χ² / ndf 5061 / 83
p0 7.125e+04 ± 55.95
85000
80000
75000
70000
65000
60000

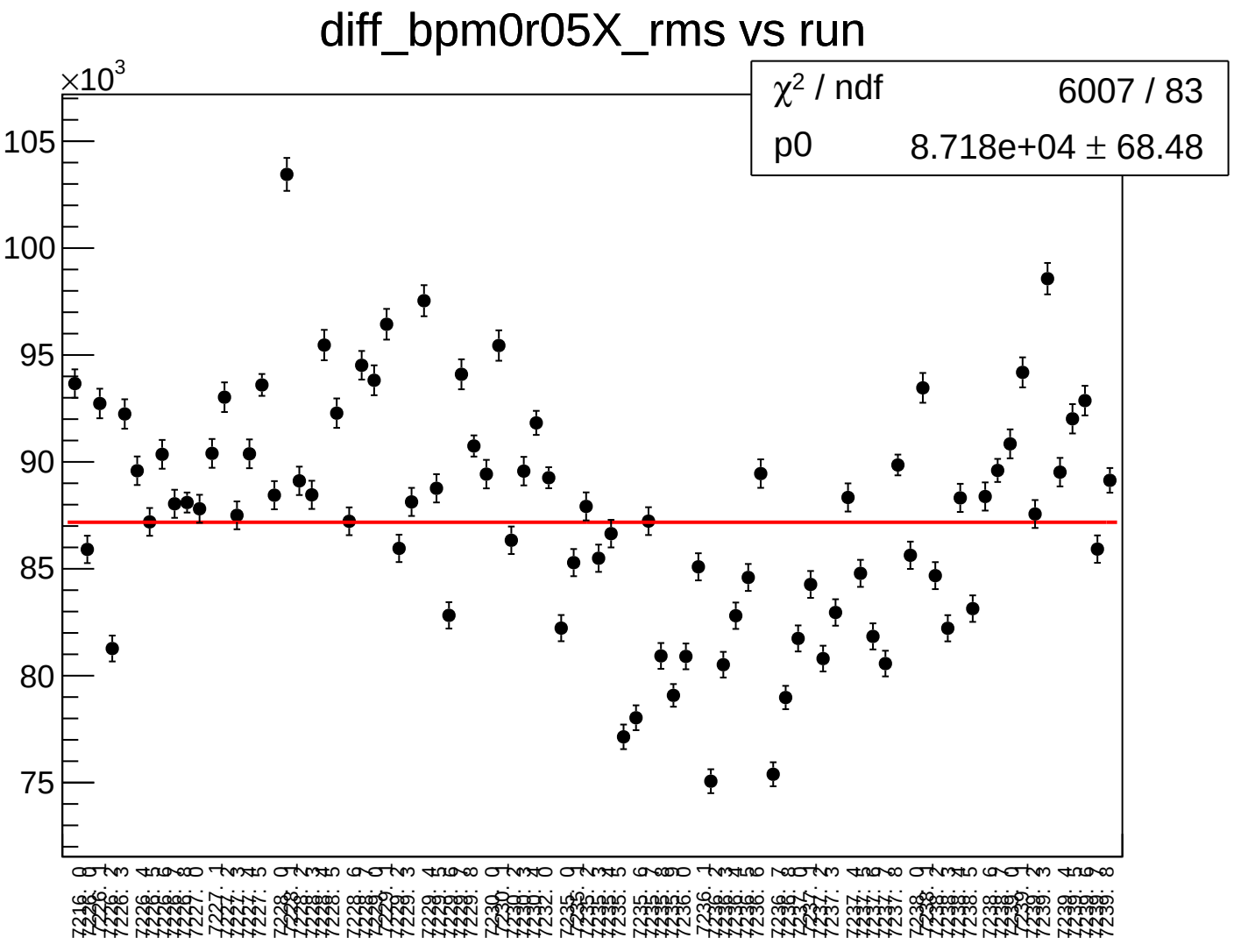

diff_bpm0r03Y_mean vs run
χ² / ndf 59.95 / 83
p0 1.298 ± 1.79
pull
Entries 84
Mean −5834
Std Dev 0

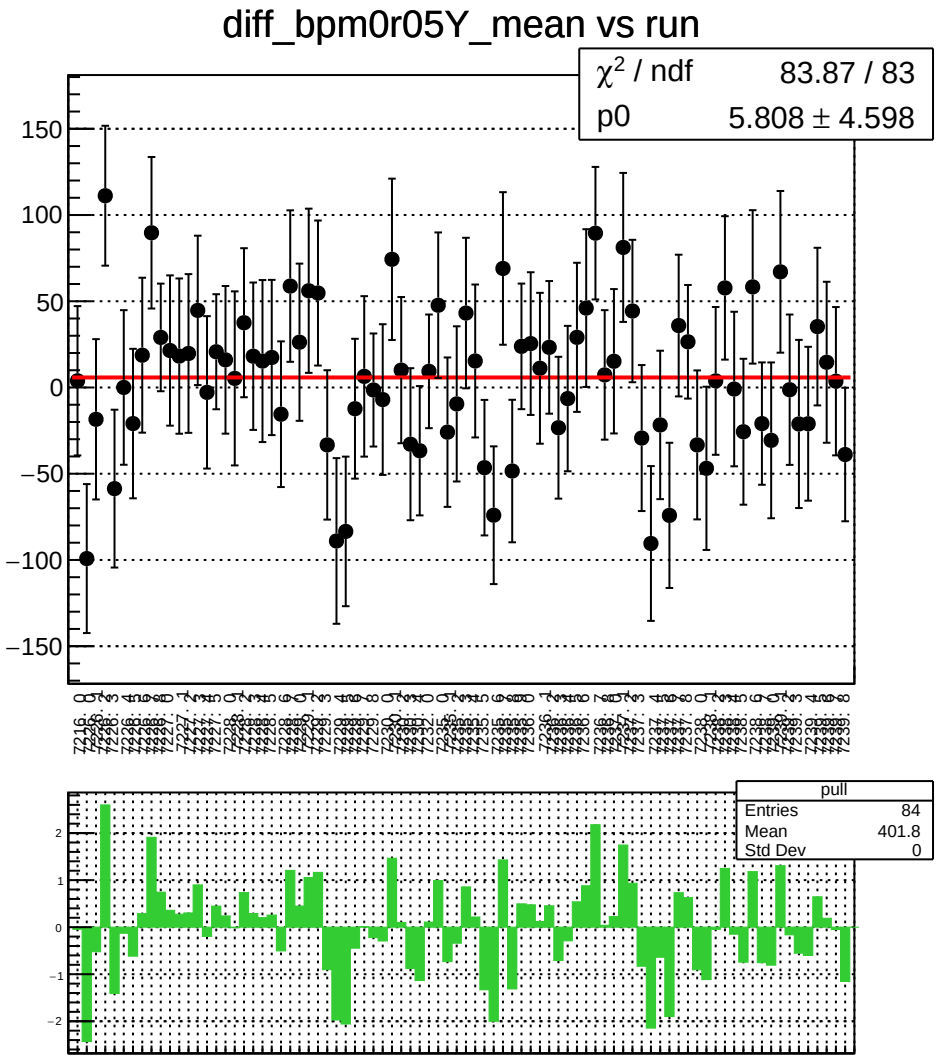

pull1D
Entries 84
Mean 0.0004598
Std Dev 0.8448

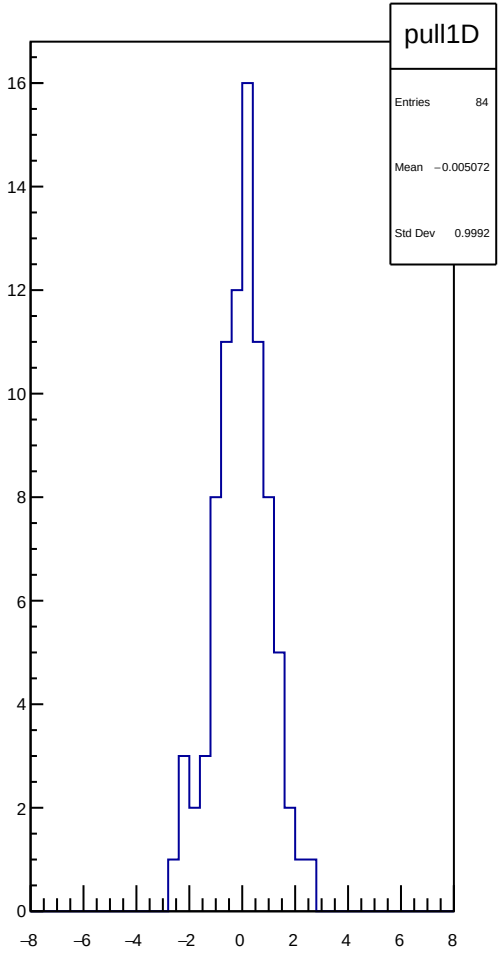

diff_bpm0r03Y_rms vs run
χ^2 / ndf 1003 / 83
p0 1614 ± 1.266
1700
1650
1600
1550
1500

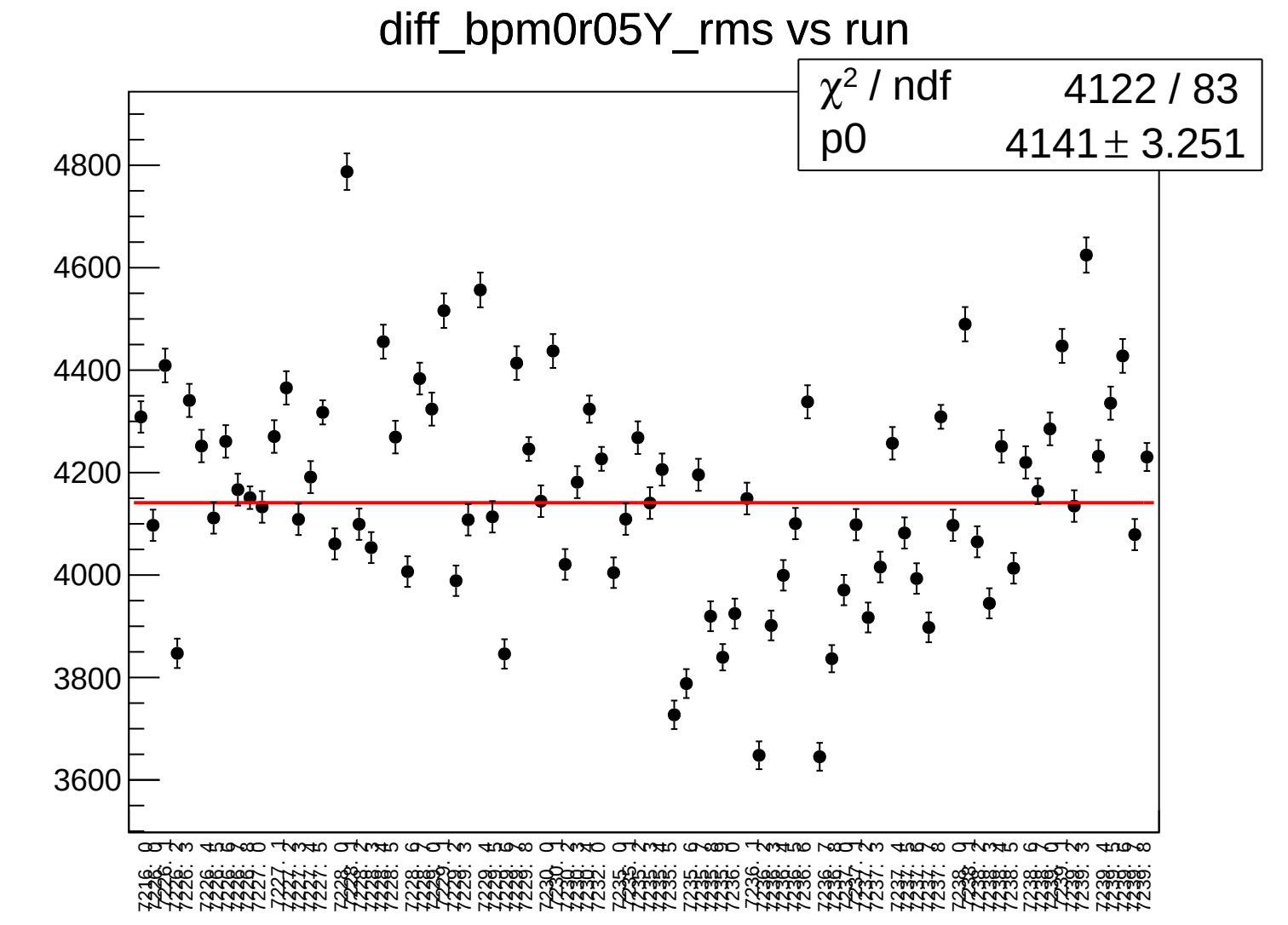

diff_bpm0r05X_mean vs run
χ² / ndf 78.16 / 83
p0 49.98 ± 96.85
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean 168.4
Std Dev 0
2
1
0
−1
−2

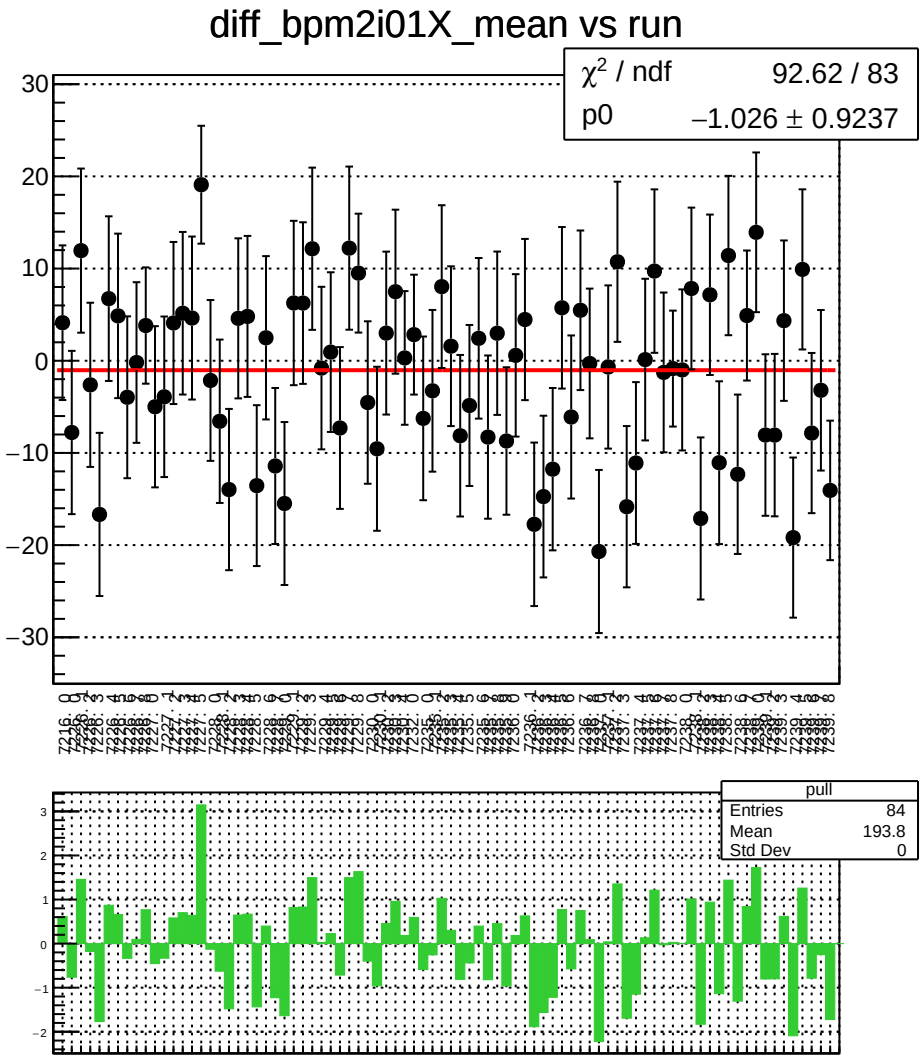

pull1D
Entries 84
Mean −0.001287
Std Dev 0.9646
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

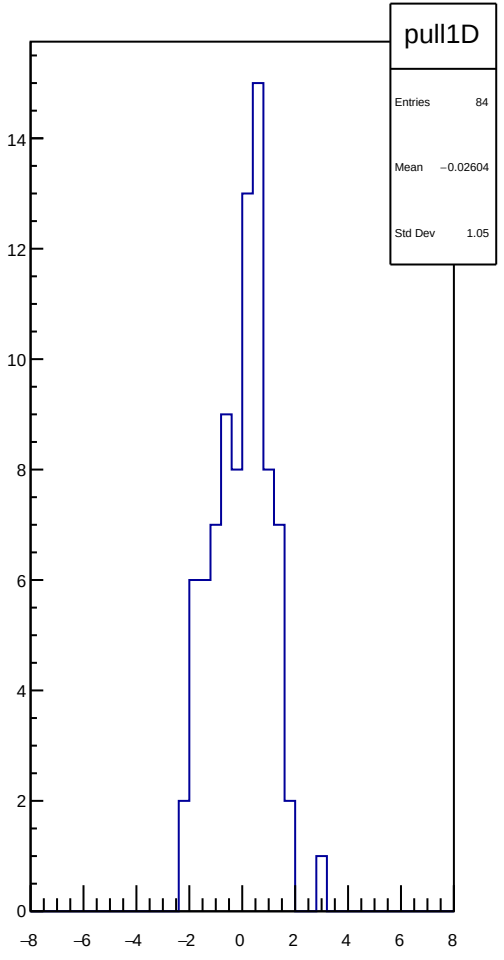

diff_bpm0r05X_rms vs run
×10^3
χ² / ndf 6007 / 83
p0 8.718e+04 ± 68.48
105
100
95
90
85
80
75

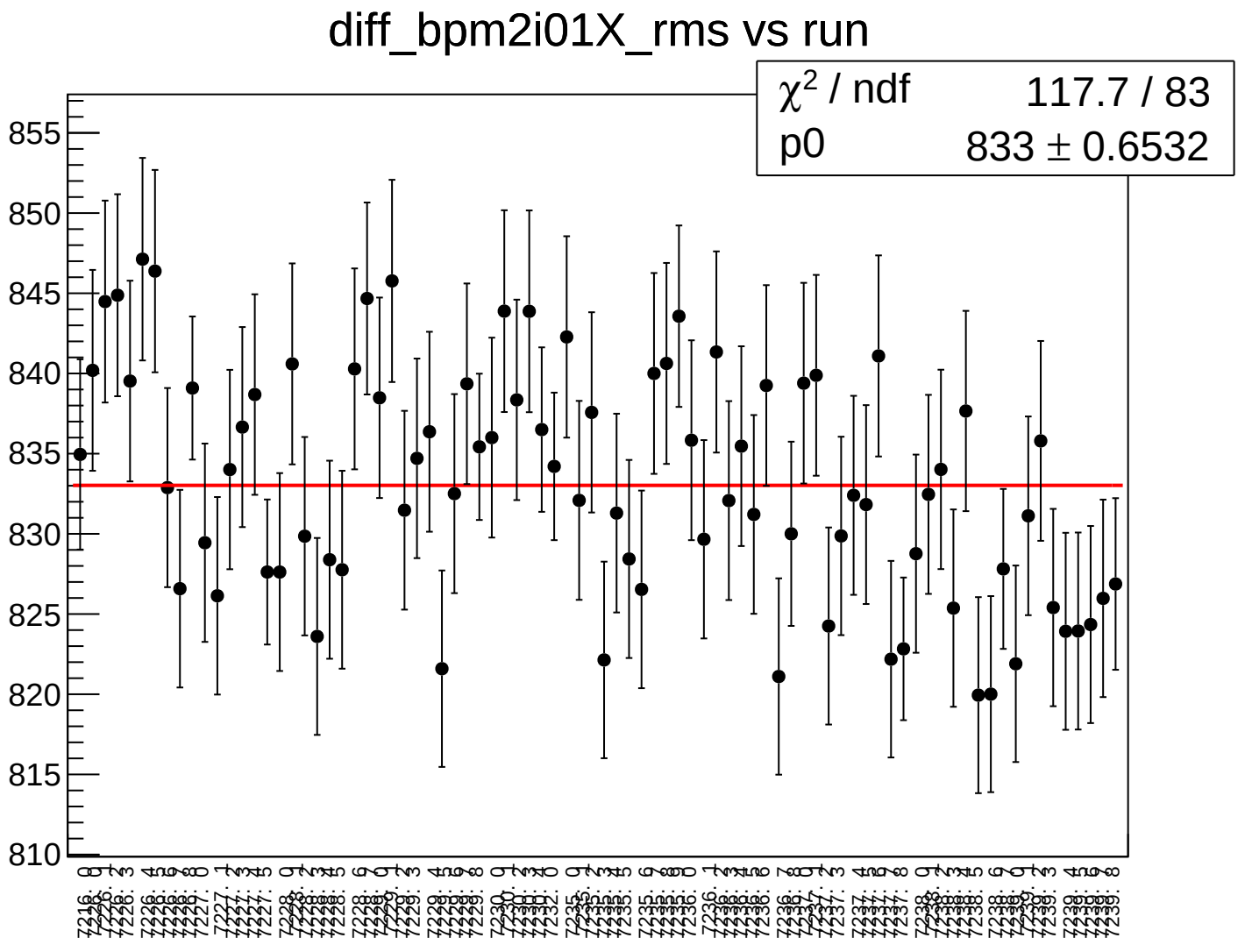

diff_bpm0r05Y_mean vs run
χ² / ndf 83.87 / 83
p0 5.808 ± 4.598
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean 401.8
Std Dev 0
2
1
0
−1
−2

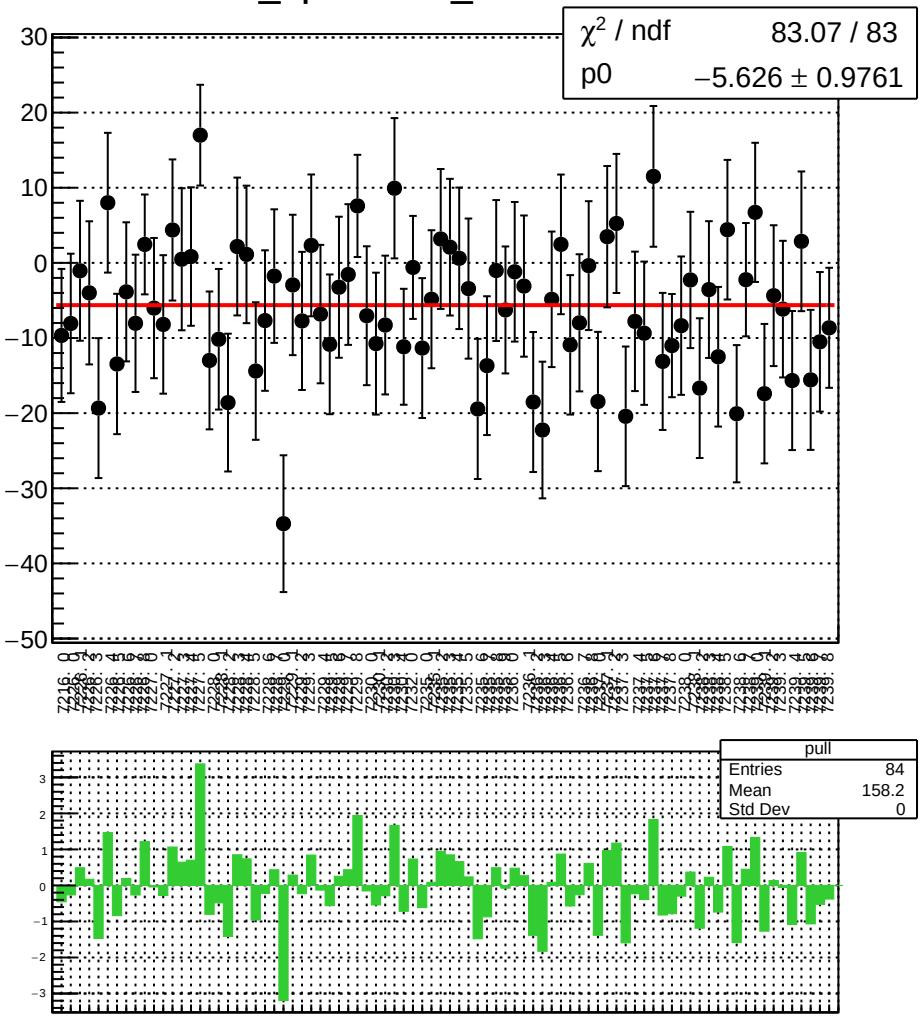

pull1D
Entries 84
Mean −0.005072
Std Dev 0.9992
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

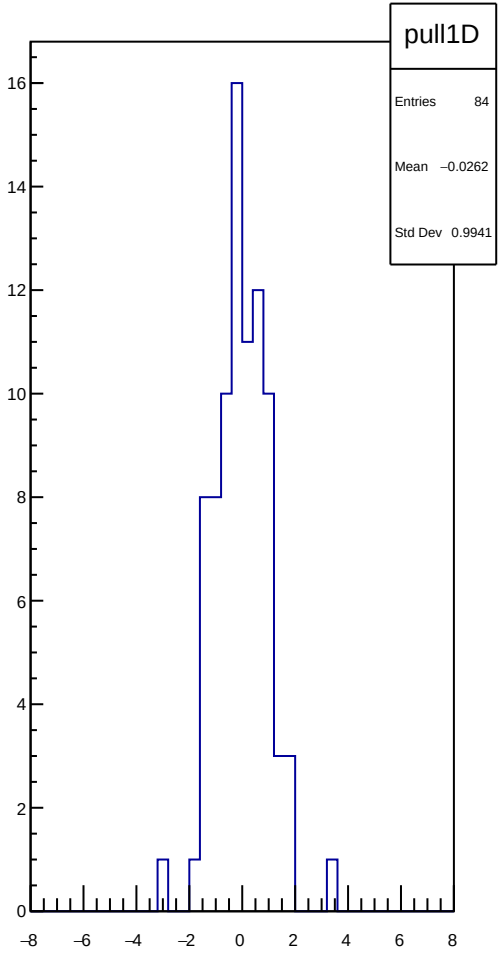

diff_bpm0r05Y_rms vs run
χ² / ndf 4122 / 83
p0 4141 ± 3.251
4800
4600
4400
4200
4000
3800
3600

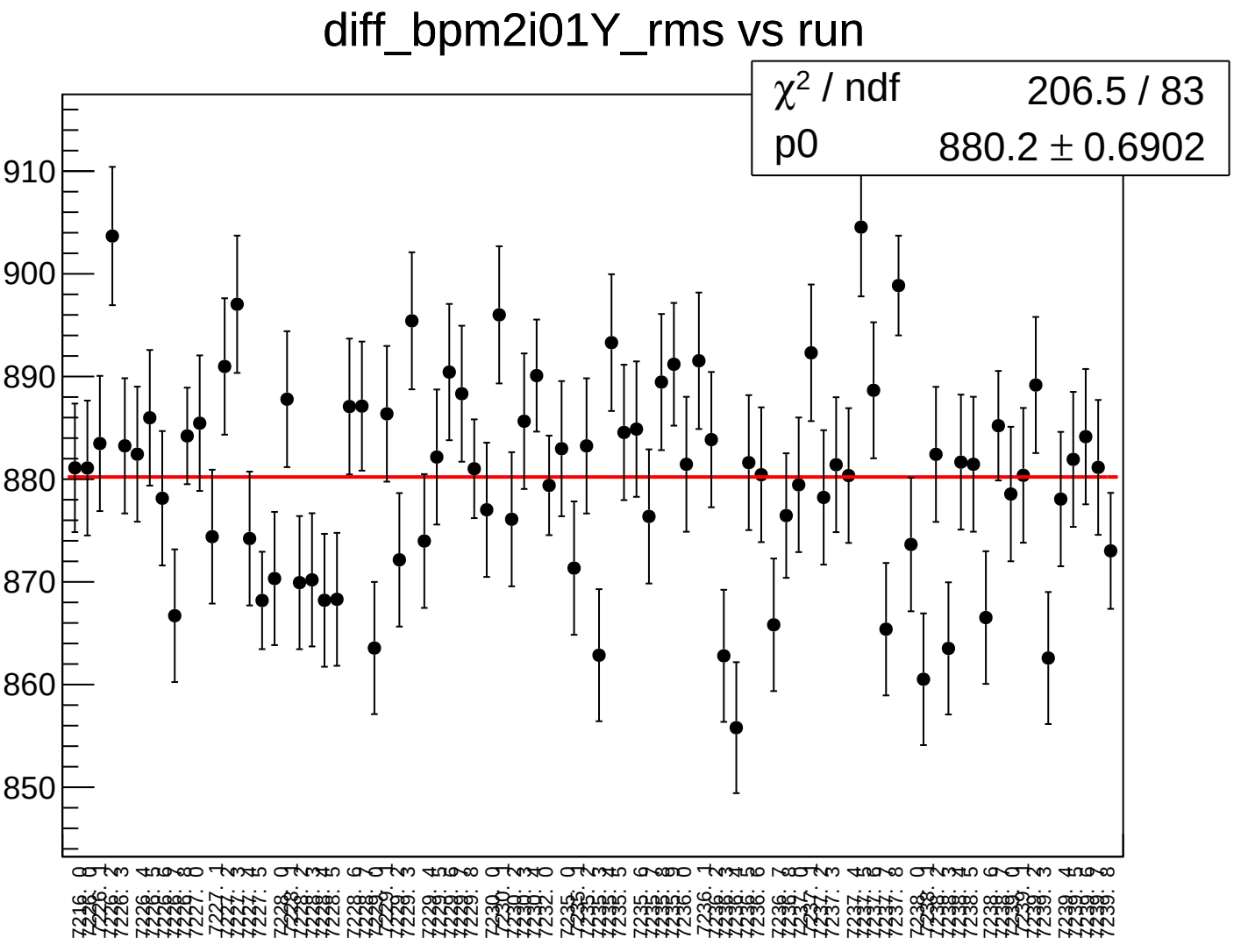

diff_bpm2i01X_mean vs run
χ² / ndf 92.62 / 83
p0 −1.026 ± 0.9237
pull
Entries 84
Mean 193.8
Std Dev 0

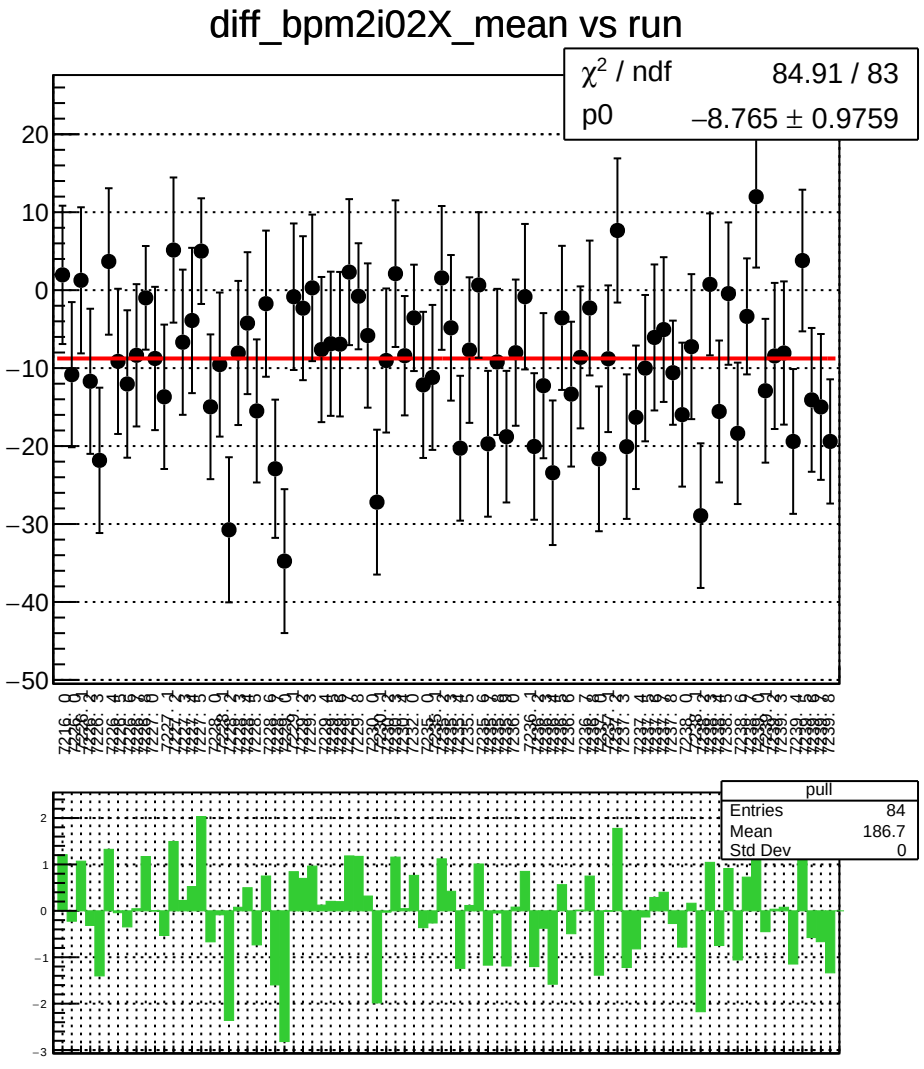

pull1D
Entries 84
Mean −0.02604
Std Dev 1.05

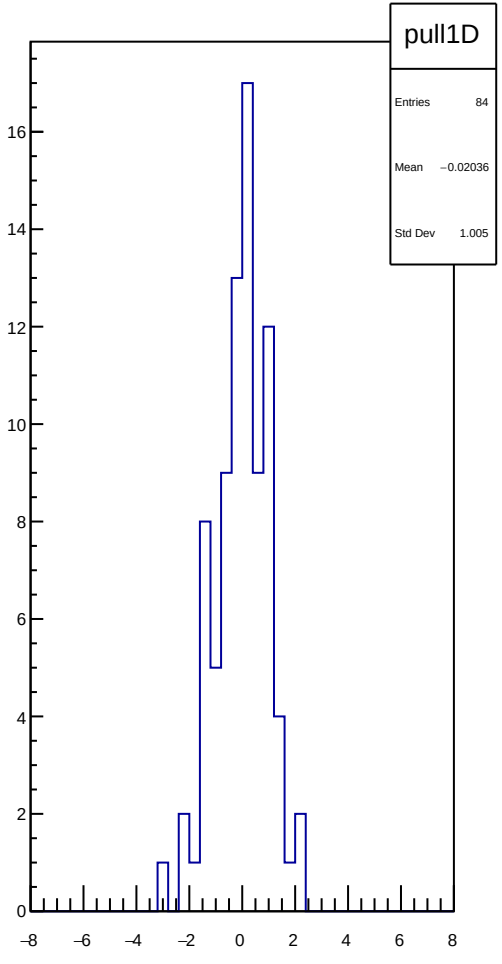

diff_bpm2i01X_rms vs run
χ² / ndf 117.7 / 83
p0 833 ± 0.6532
855
850
845
840
835
830
825
820
815
810

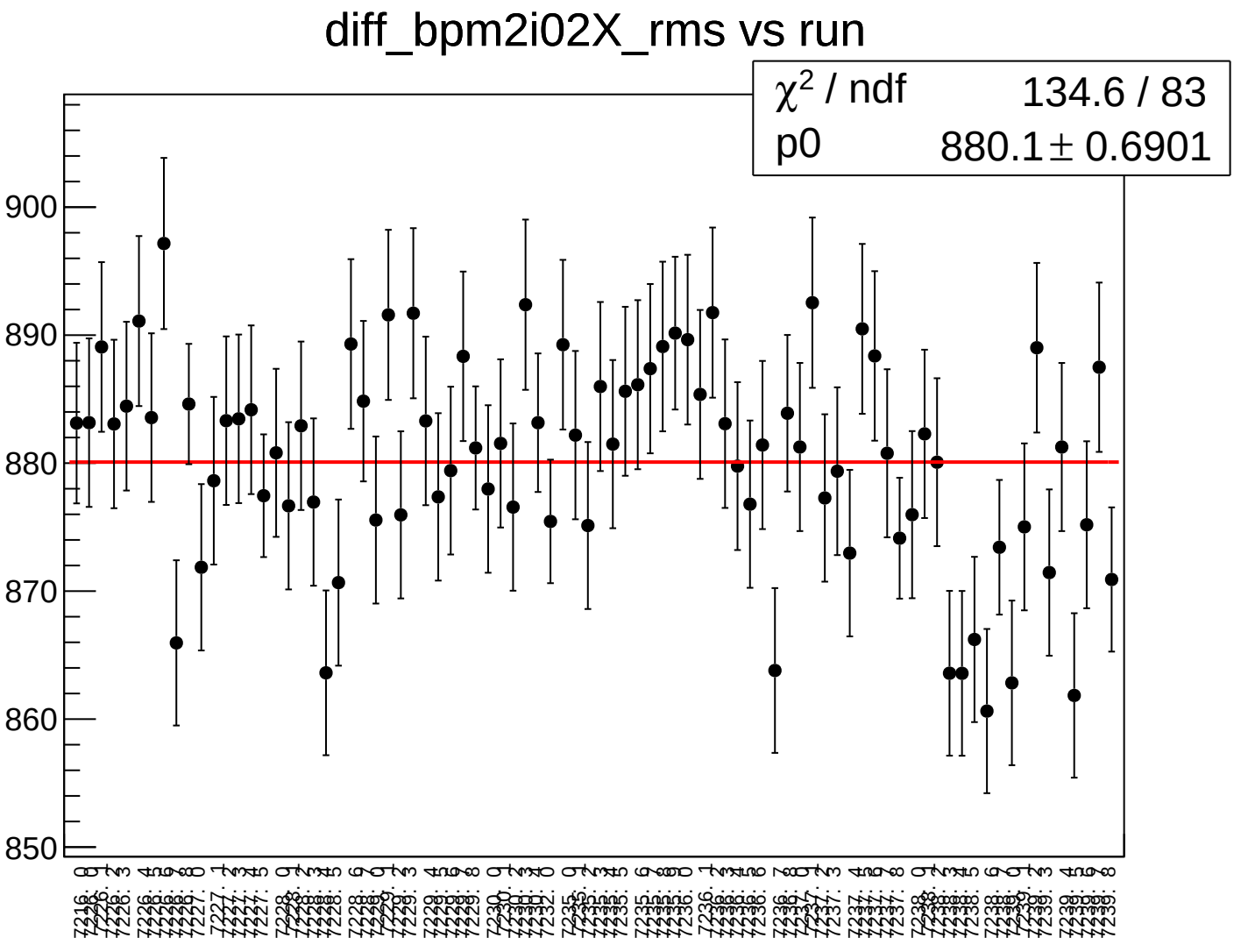

diff_bpm2i01Y_mean vs run
χ² / ndf 83.07 / 83
p0 −5.626 ± 0.9761
pull
Entries 84
Mean 158.2
Std Dev 0

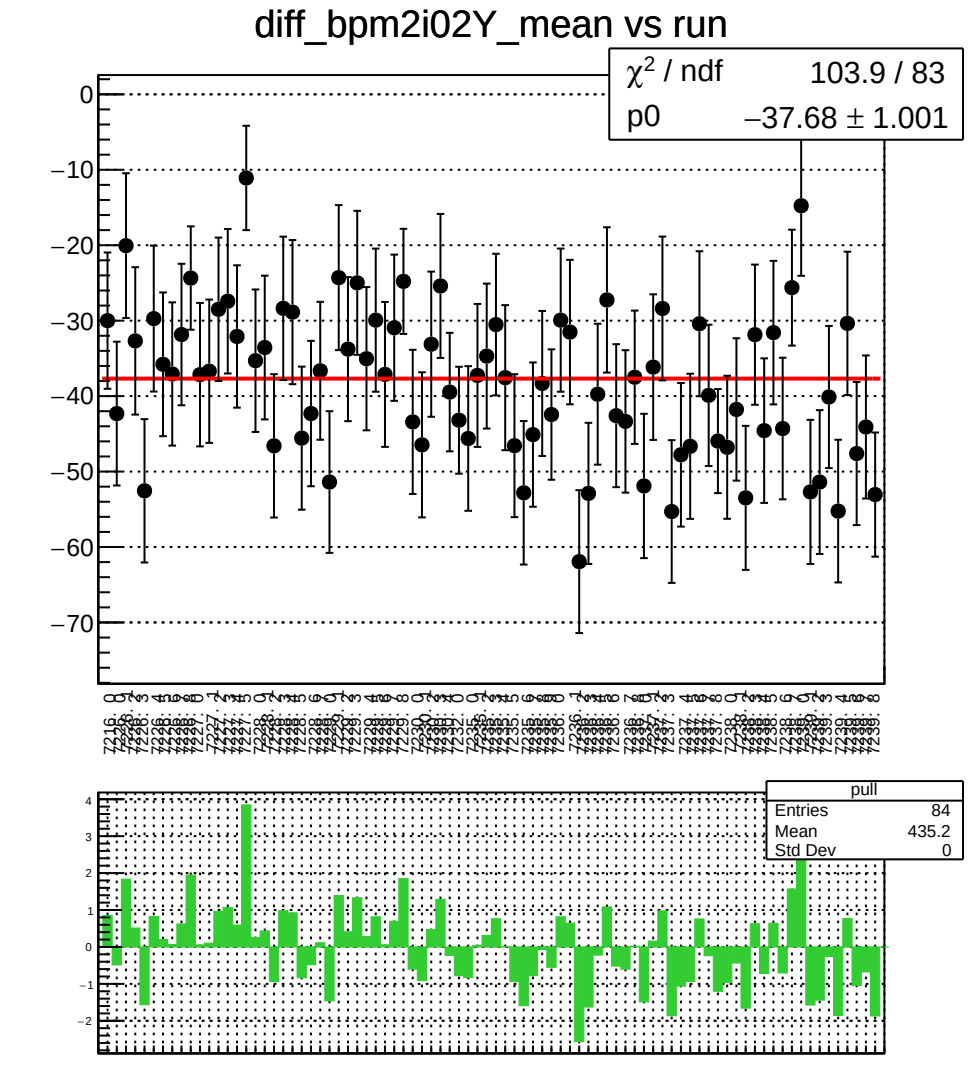

pull1D
Entries 84
Mean −0.0262
Std Dev 0.9941

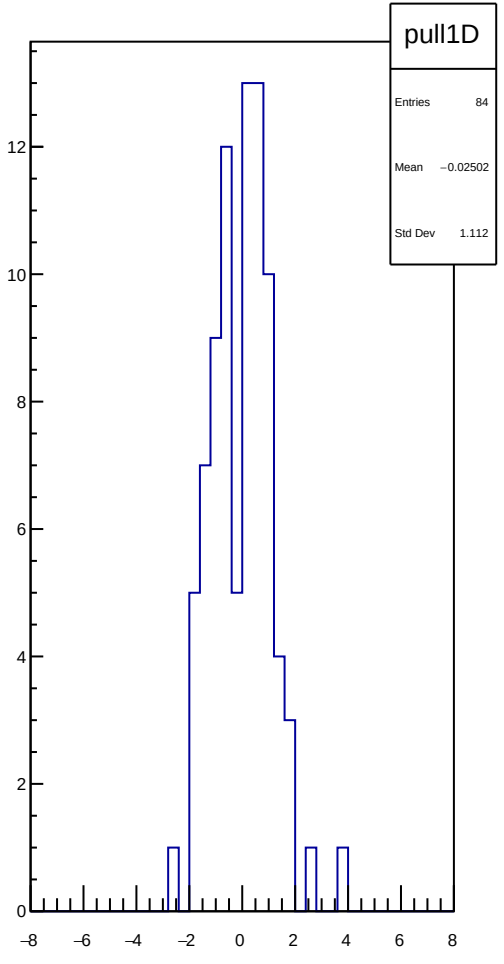

diff_bpm2i01Y_rms vs run
χ² / ndf 206.5 / 83
p0 880.2 ± 0.6902
910
900
890
880
870
860
850

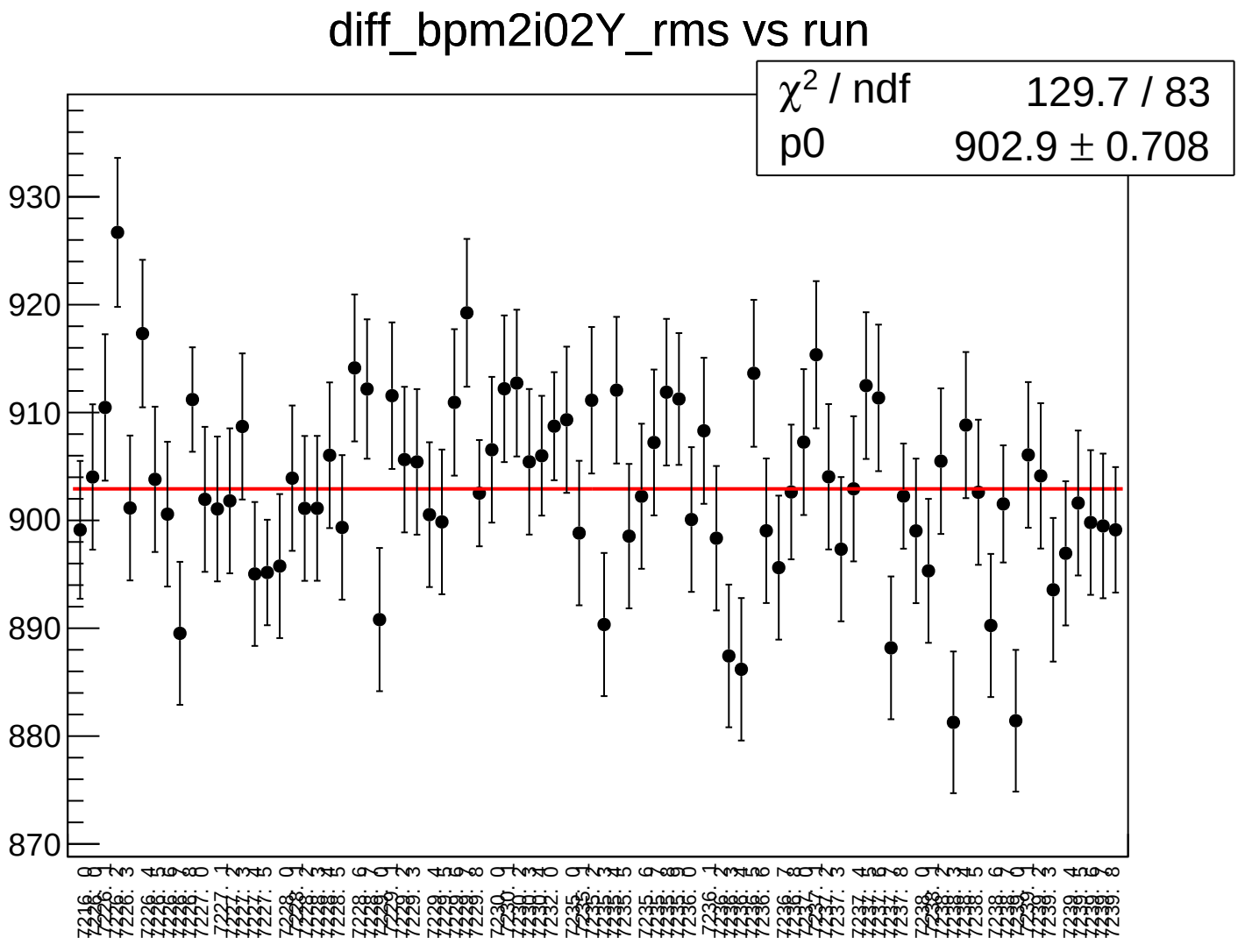

diff_bpm2i02X_mean vs run
χ² / ndf 84.91 / 83
p0 −8.765 ± 0.9759
pull
Entries 84
Mean 186.7
Std Dev 0

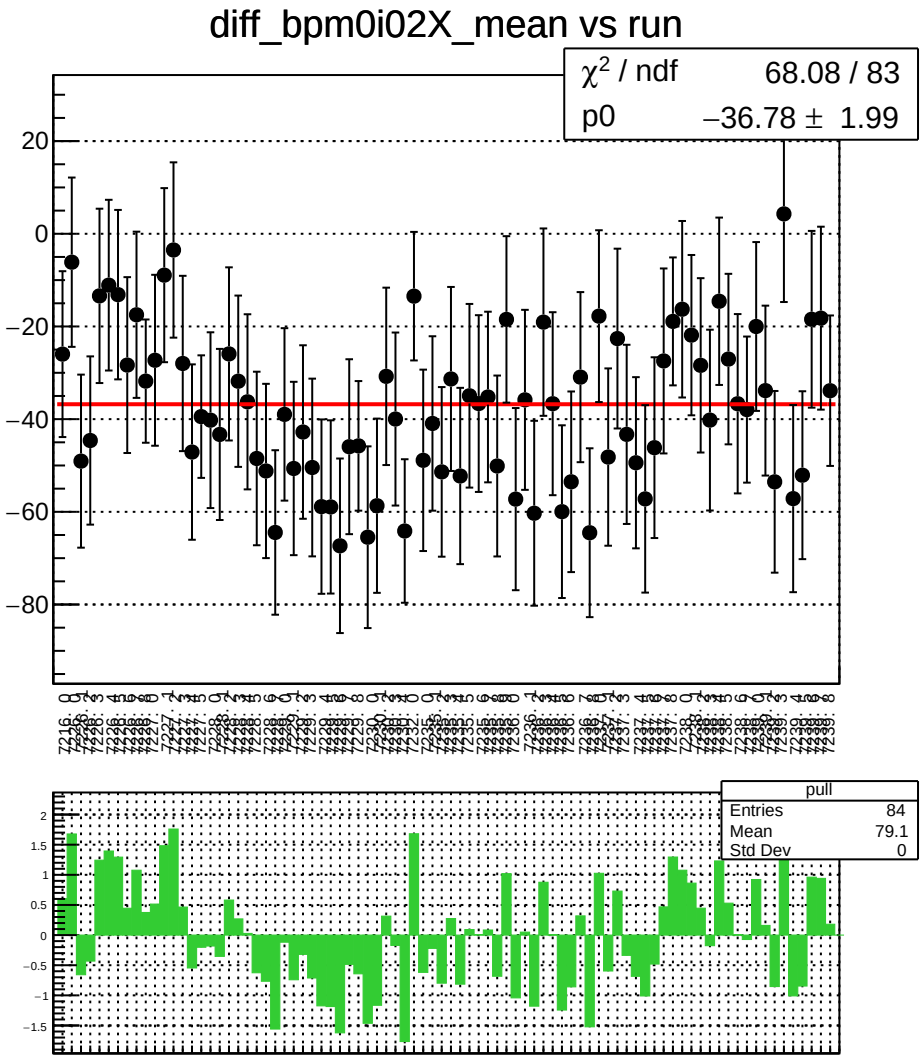

pull1D
Entries 84
Mean −0.02036
Std Dev 1.005

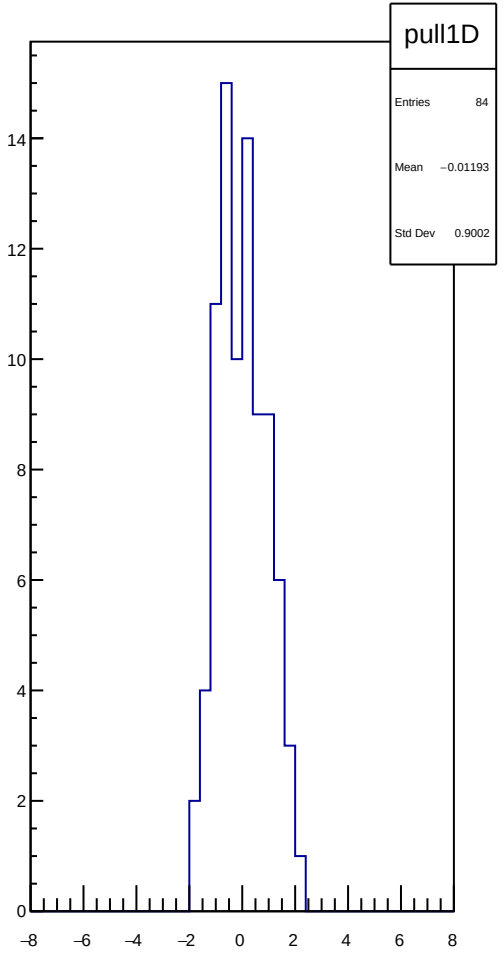

diff_bpm2i02X_rms vs run
χ² / ndf 134.6 / 83
p0 880.1 ± 0.6901
900
890
880
870
860
850

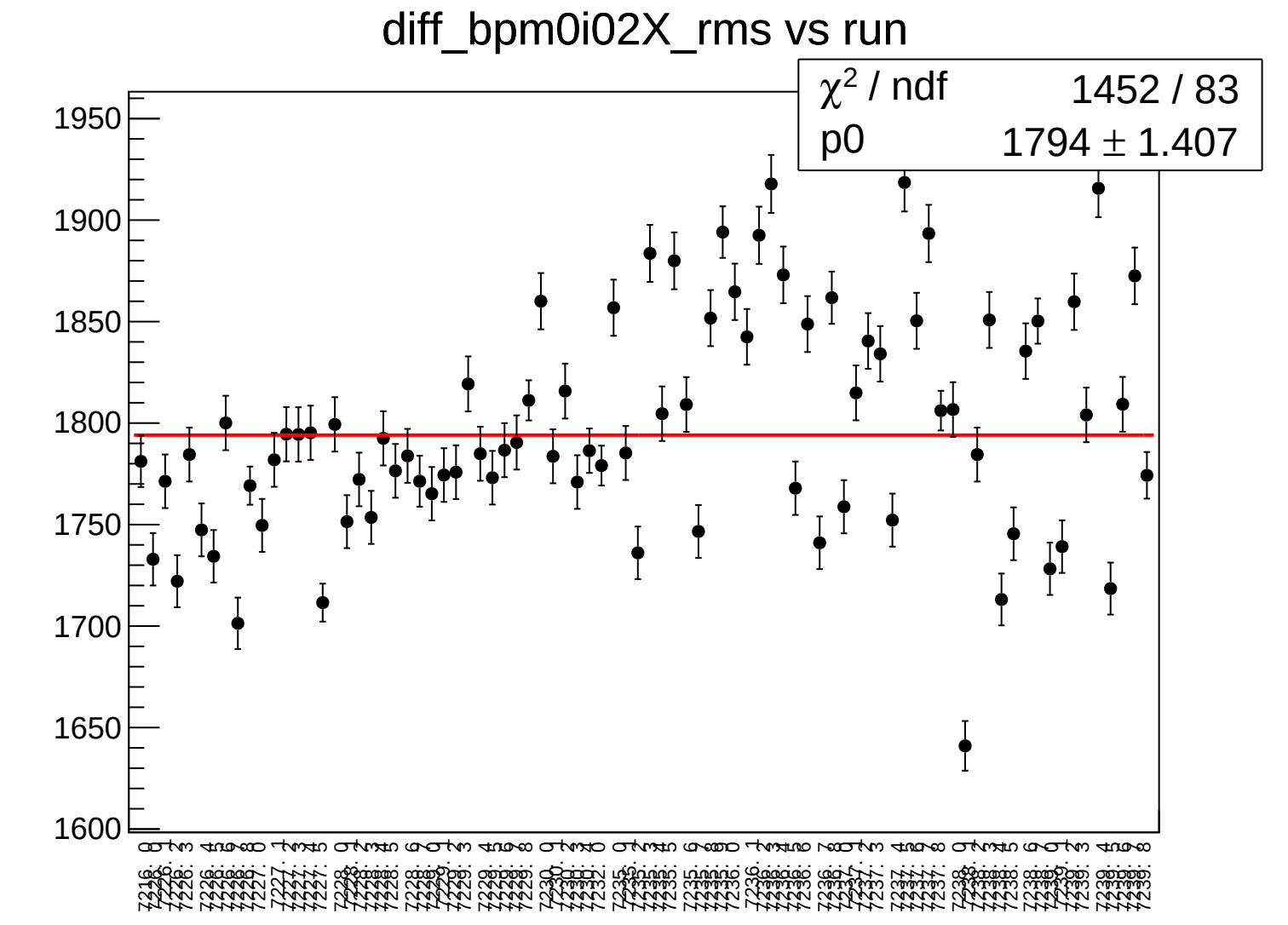

diff_bpm2i02Y_mean vs run
χ² / ndf 103.9 / 83
p0 −37.68 ± 1.001
pull
Entries 84
Mean 435.2
Std Dev 0

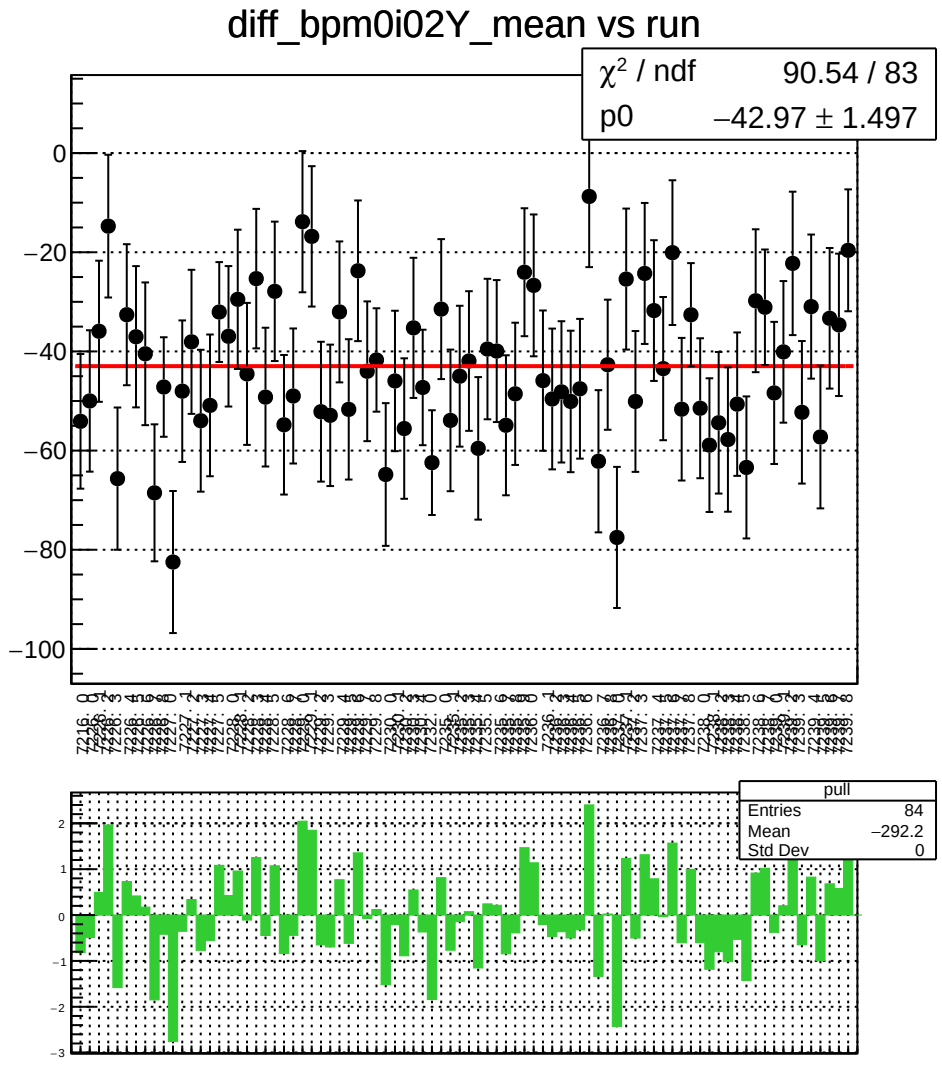

pull1D
Entries 84
Mean −0.02502
Std Dev 1.112

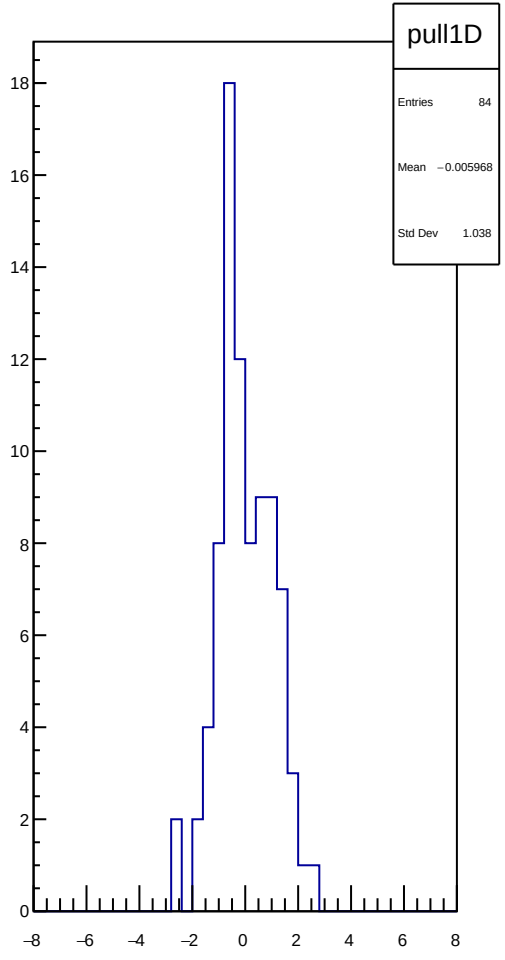

diff_bpm2i02Y_rms vs run
χ^2 / ndf 129.7 / 83
p0 902.9 ± 0.708
930
920
910
900
890
880
870

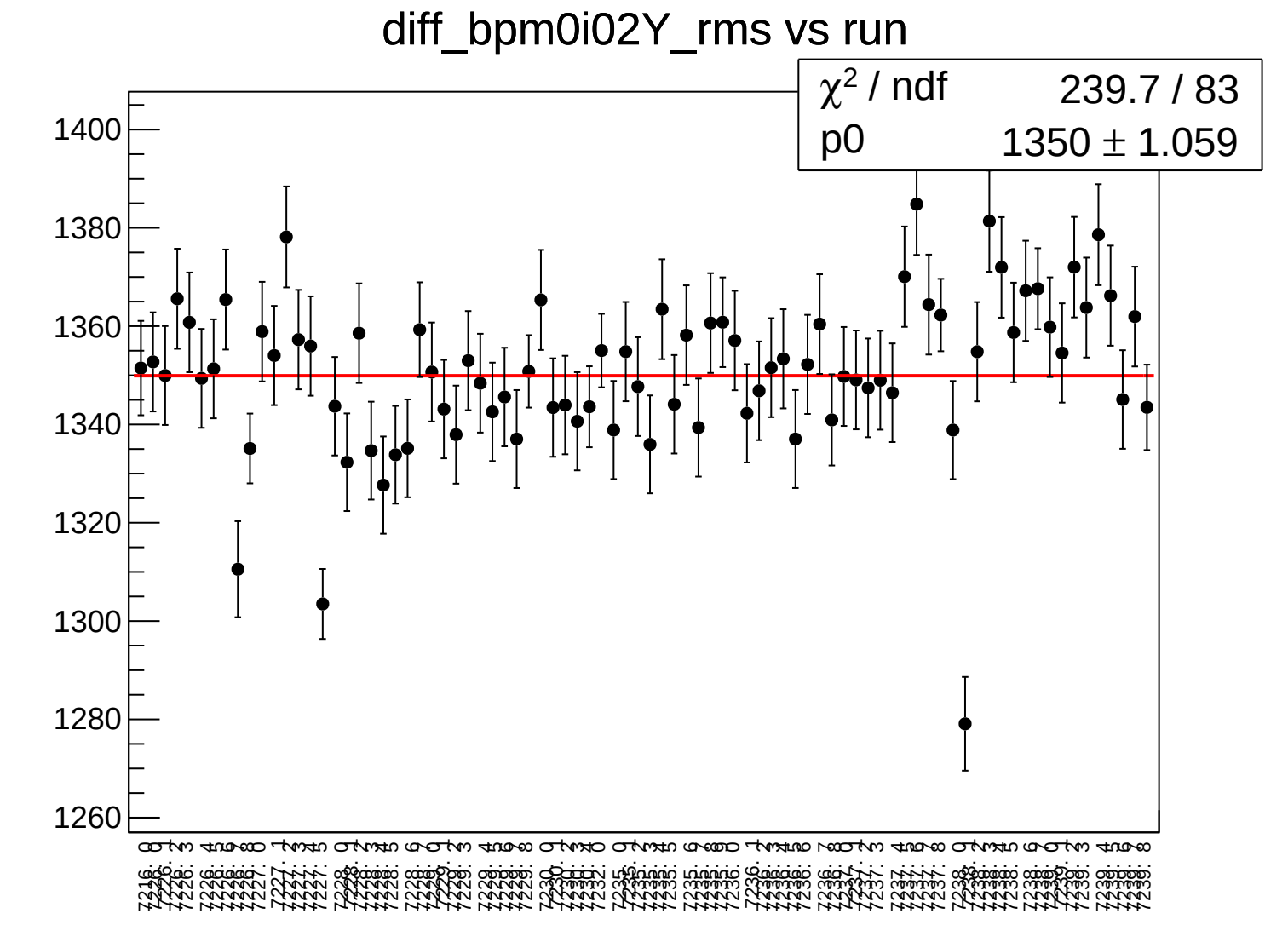

diff_bpm0i02X_mean vs run
χ² / ndf 68.08 / 83
p0 −36.78 ± 1.99
pull
Entries 84
Mean 79.1
Std Dev 0

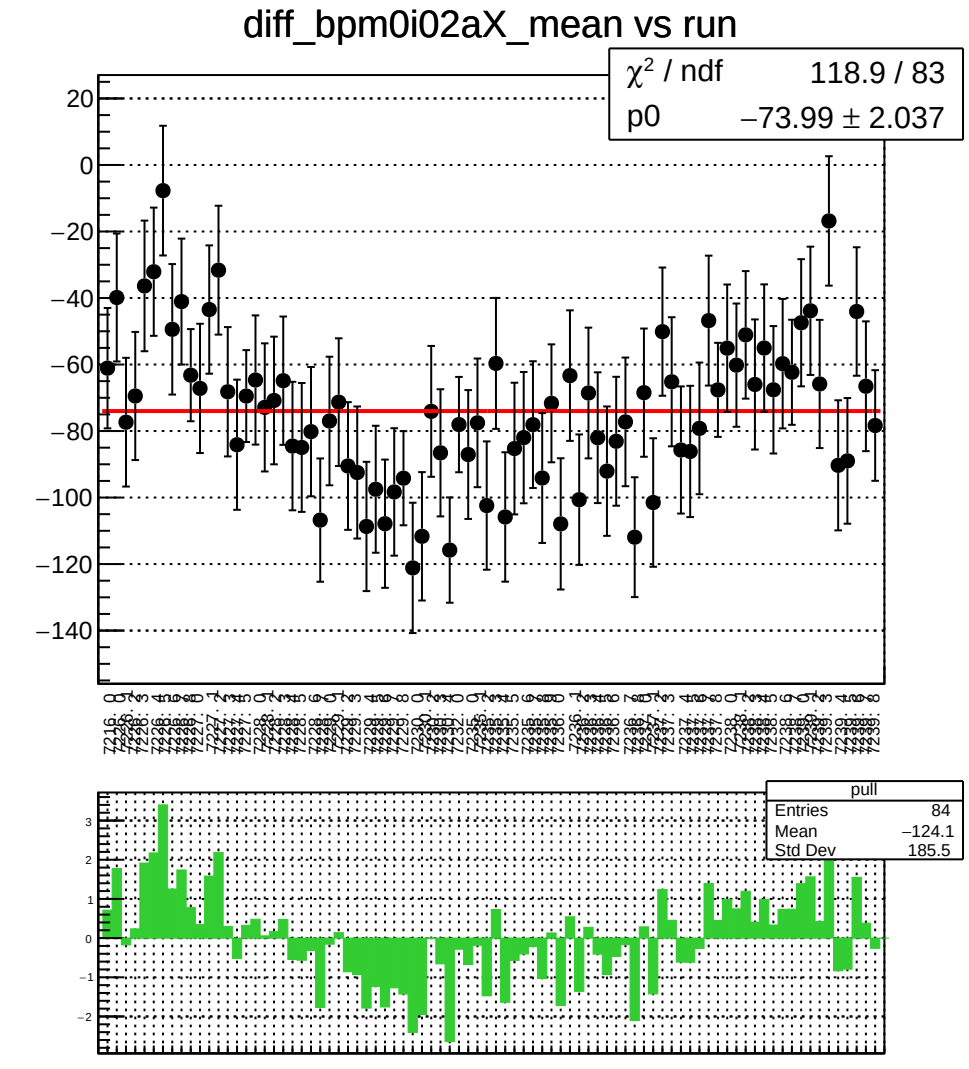

pull1D
Entries 84
Mean −0.01193
Std Dev 0.9002

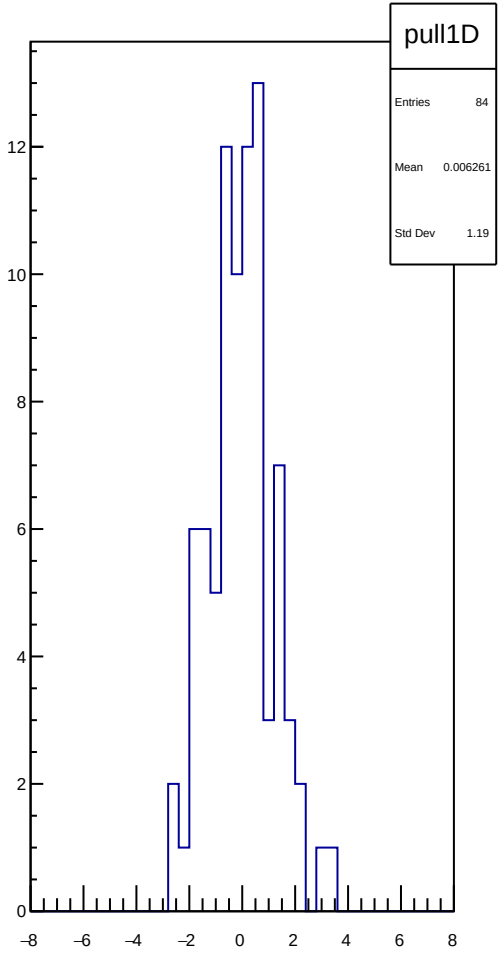

diff_bpm0i02X_rms vs run
χ² / ndf 1452 / 83
p0 1794 ± 1.407
1950
1900
1850
1800
1750
1700
1650
1600

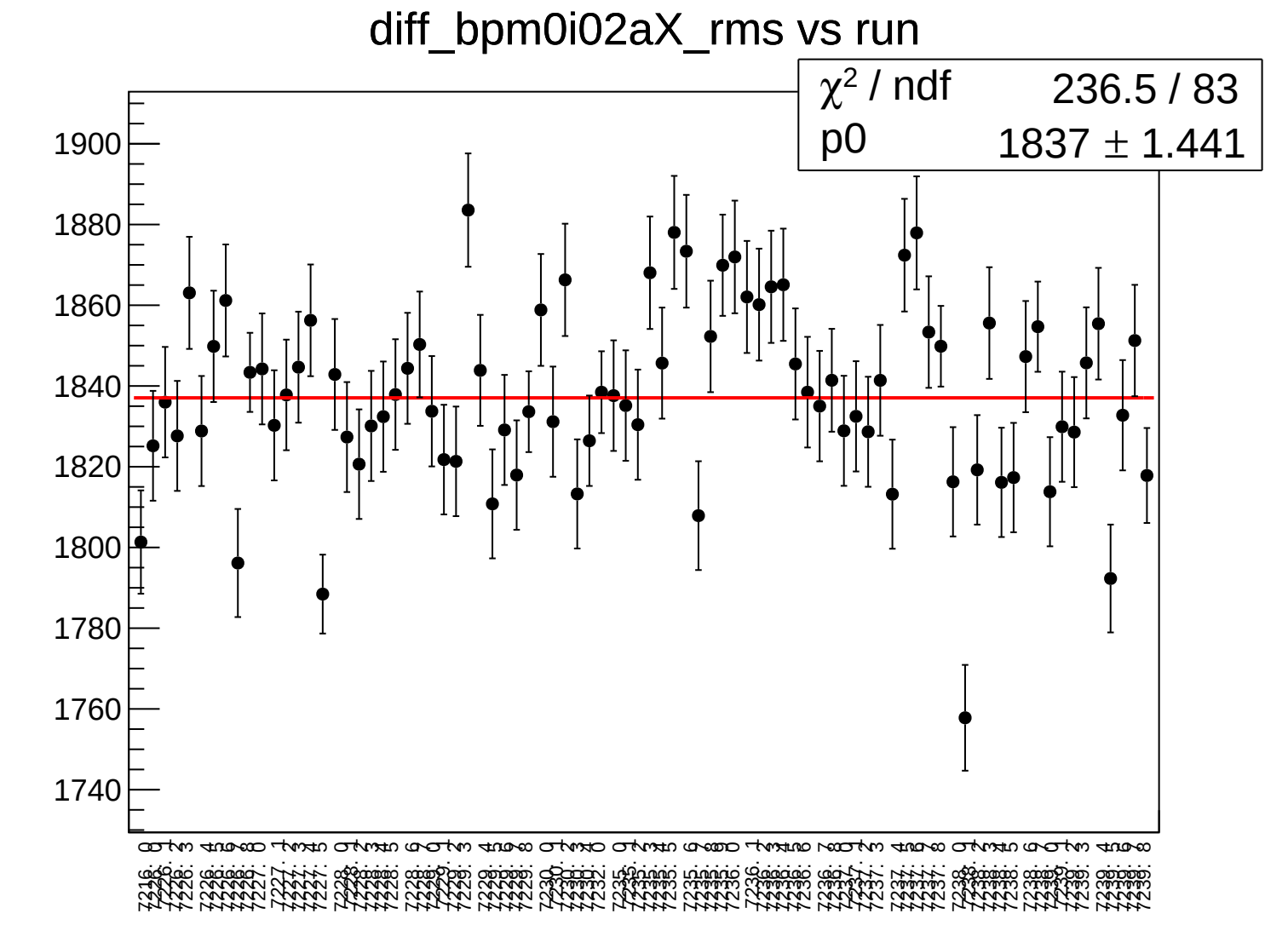

diff_bpm0i02Y_mean vs run
χ² / ndf 90.54 / 83
p0 −42.97 ± 1.497
pull
Entries 84
Mean −292.2
Std Dev 0

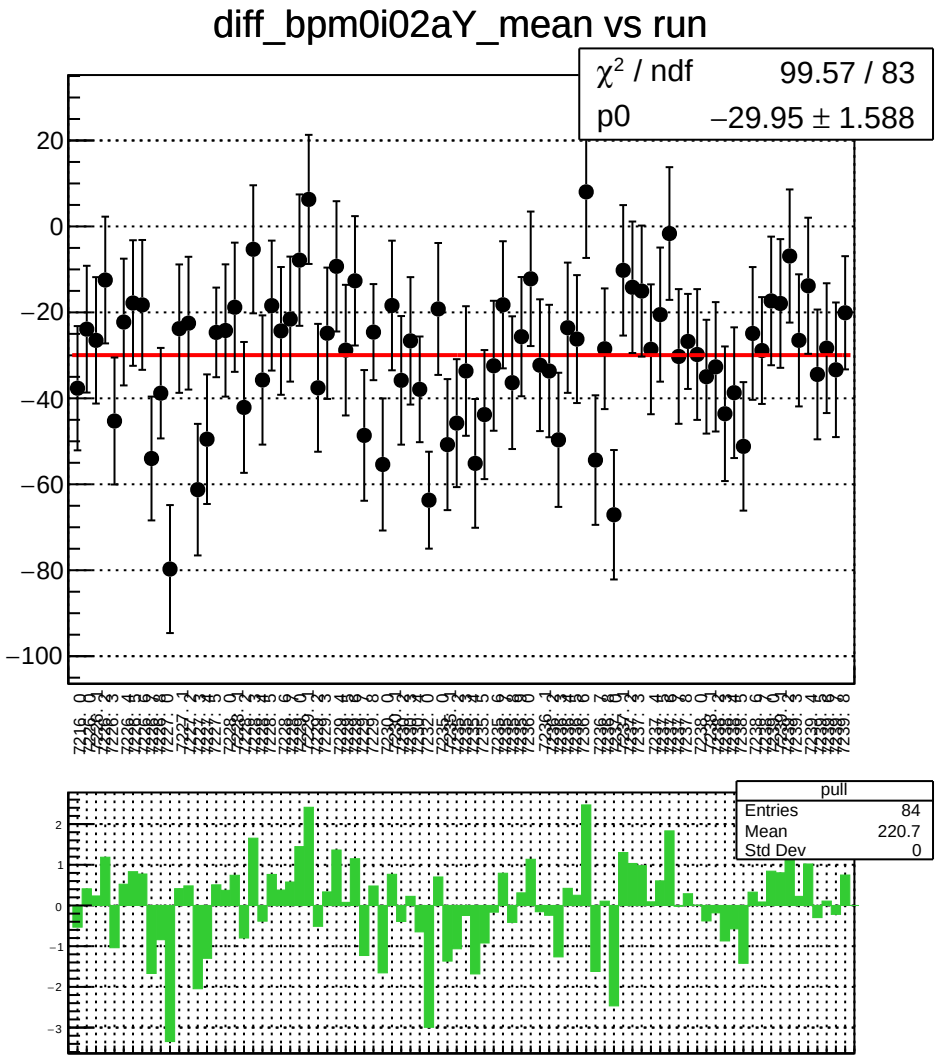

pull1D
Entries 84
Mean −0.005968
Std Dev 1.038

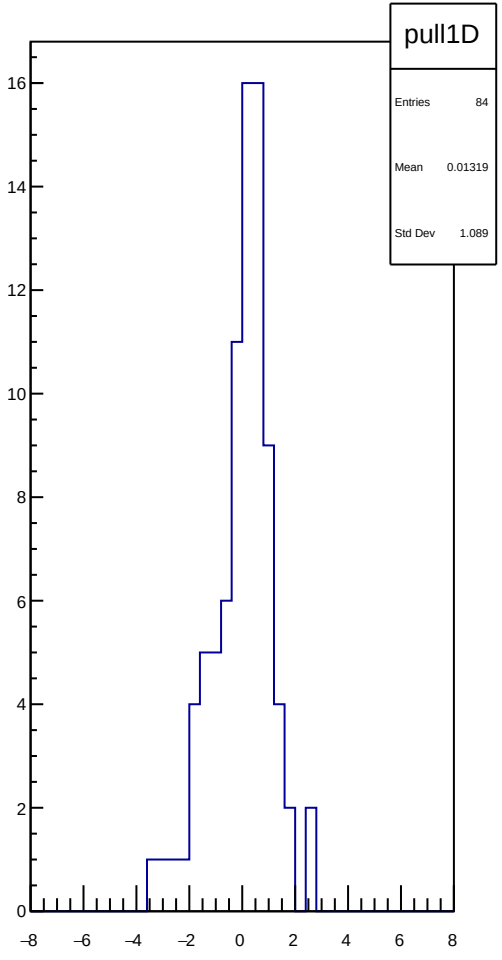

diff_bpm0i02Y_rms vs run
χ^2 / ndf 239.7 / 83
p0 1350 ± 1.059
1400
1380
1360
1340
1320
1300
1280
1260

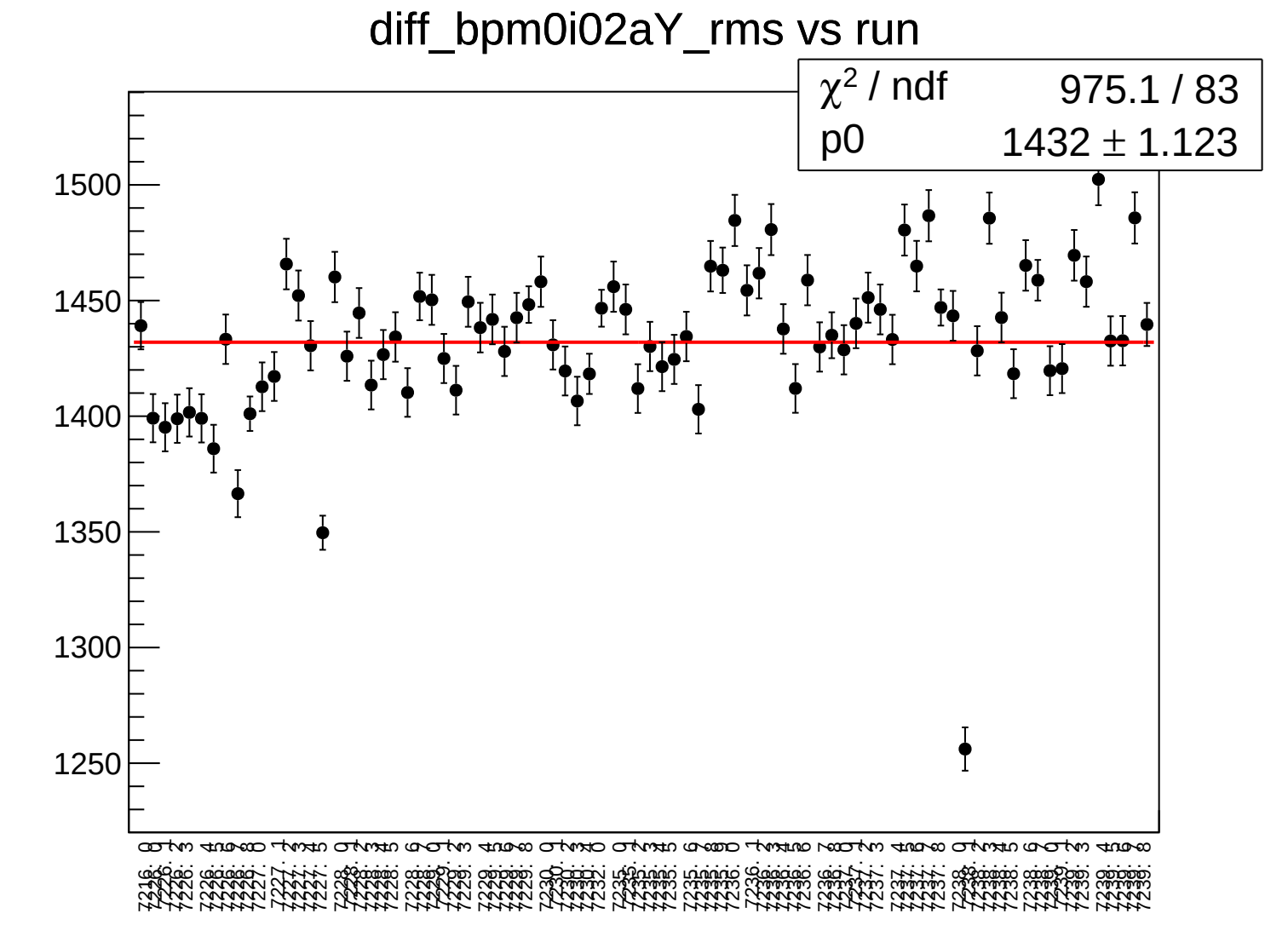

diff_bpm0i02aX_mean vs run
χ² / ndf 118.9 / 83
p0 −73.99 ± 2.037
pull
Entries 84
Mean −124.1
Std Dev 185.5

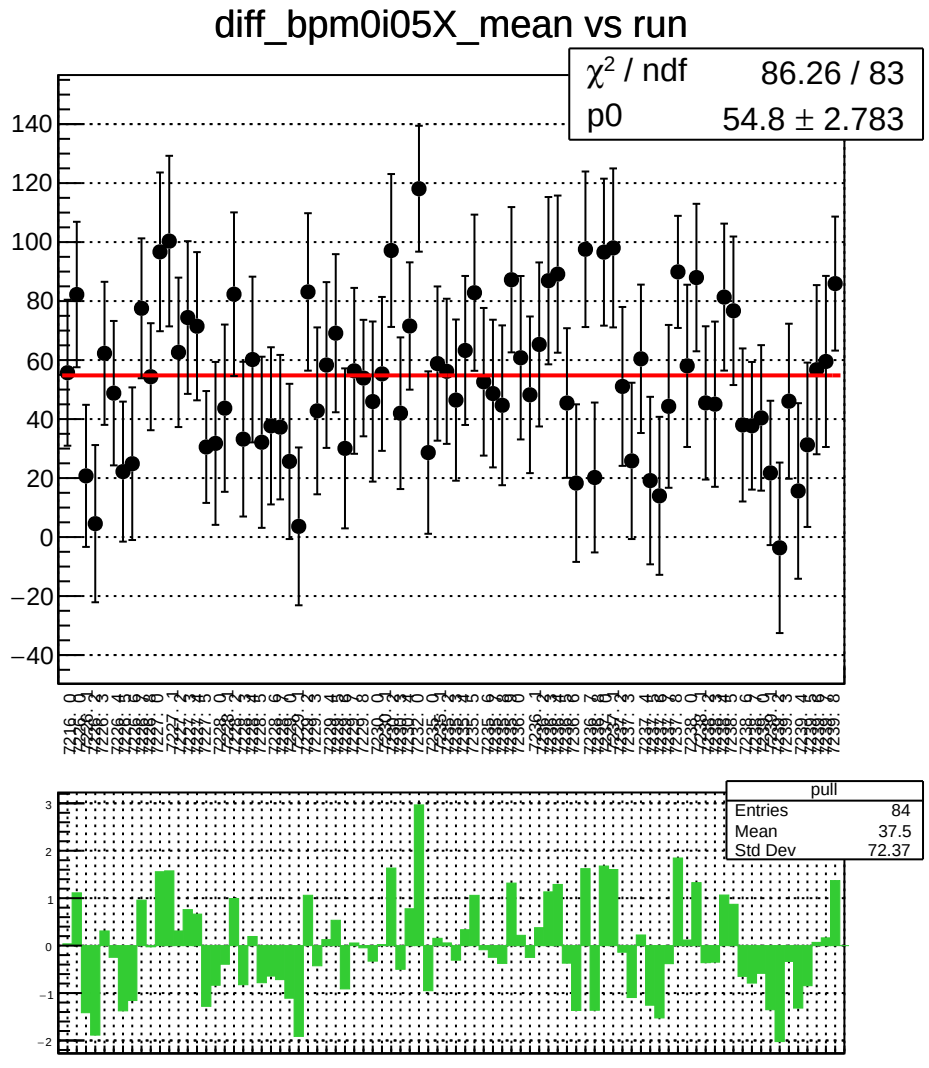

pull1D
Entries 84
Mean 0.006261
Std Dev 1.19

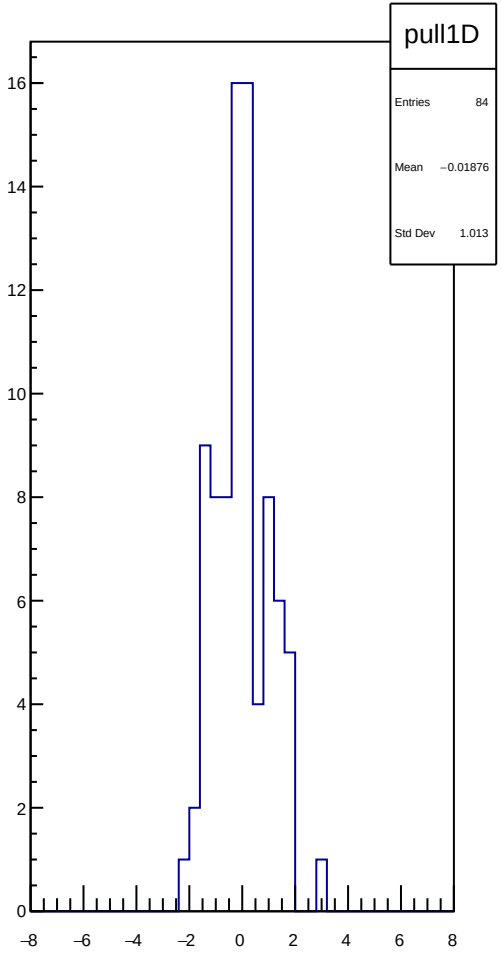

diff_bpm0i02aX_rms vs run
χ² / ndf 236.5 / 83
p0 1837 ± 1.441
1900
1880
1860
1840
1820
1800
1780
1760
1740

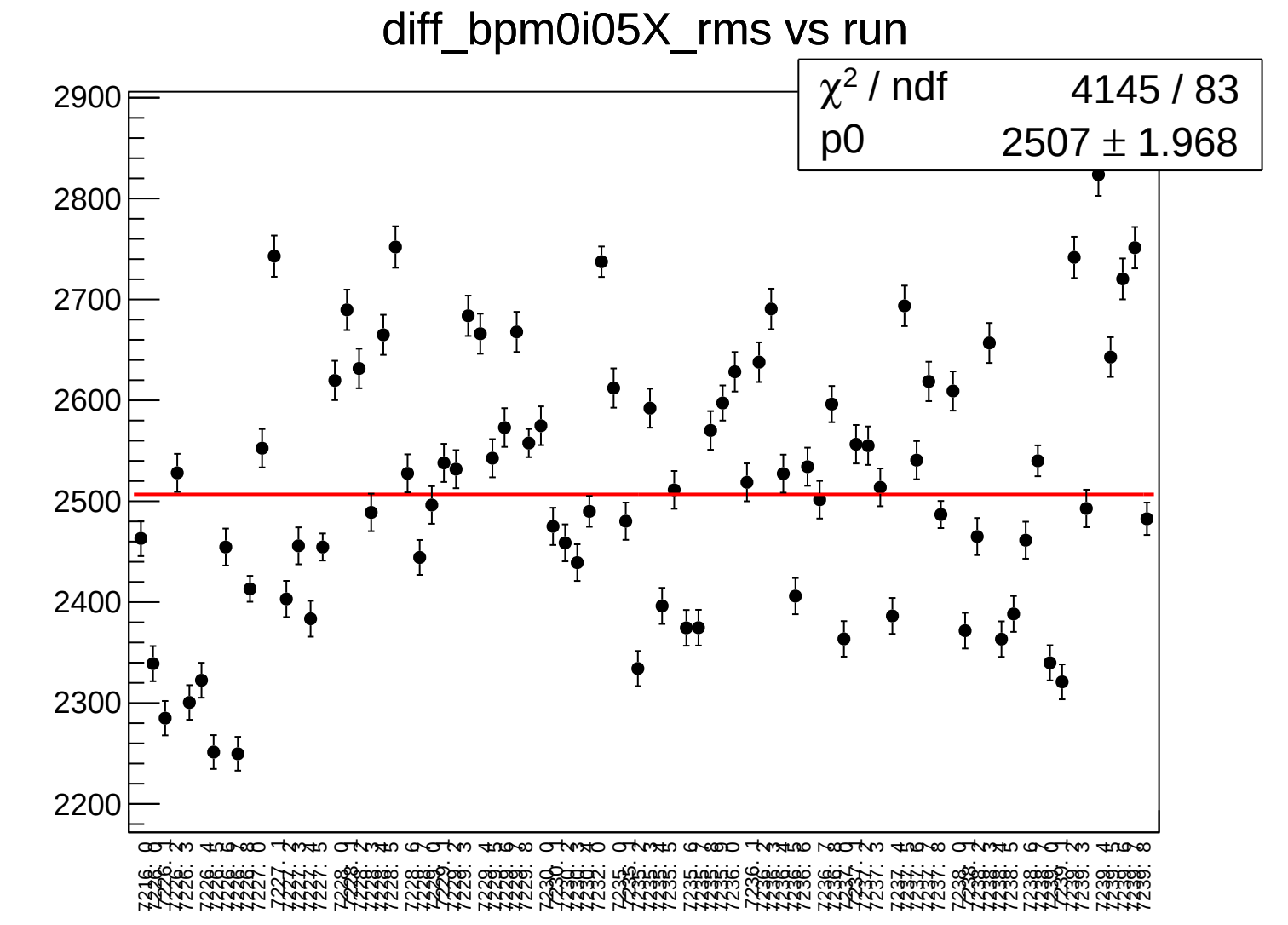

diff_bpm0i02aY_mean vs run
χ² / ndf 99.57 / 83
p0 −29.95 ± 1.588
pull
Entries 84
Mean 220.7
Std Dev 0

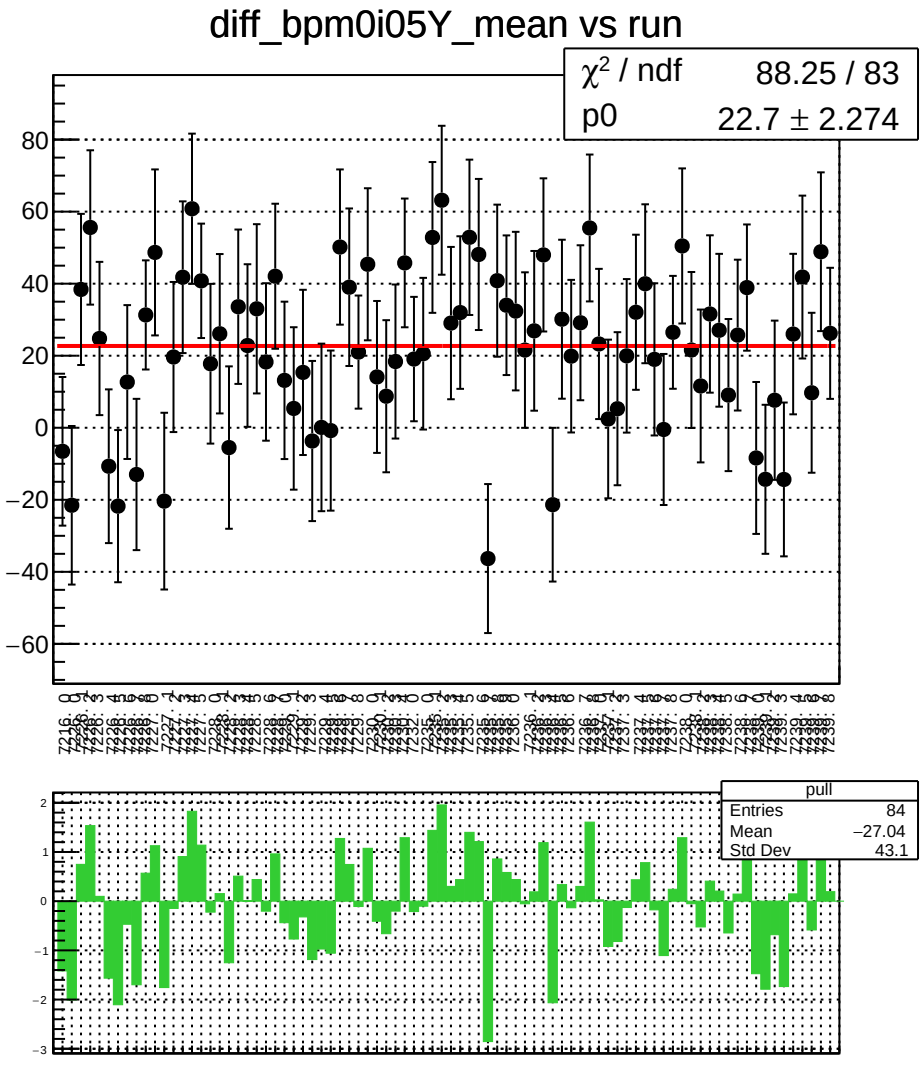

pull1D
Entries 84
Mean 0.01319
Std Dev 1.089

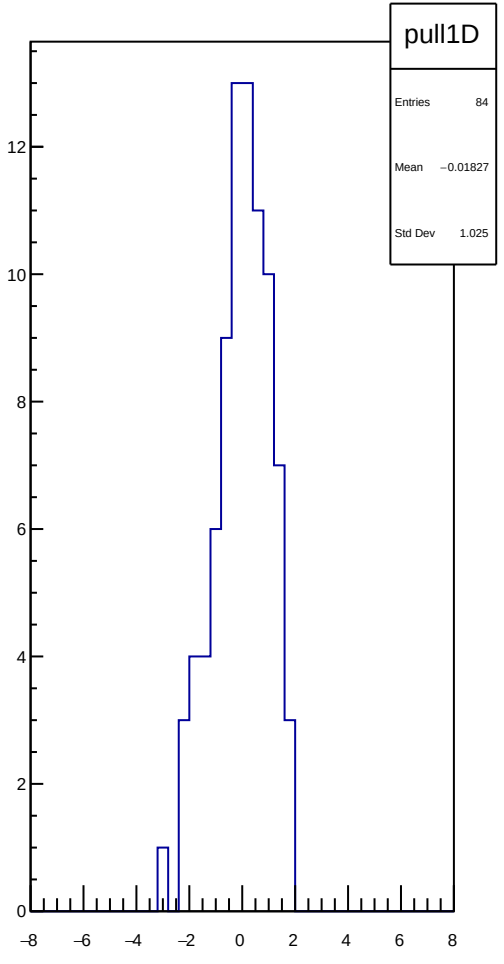

diff_bpm0i02aY_rms vs run
χ^2 / ndf 975.1 / 83
p0 1432 ± 1.123
1500
1450
1400
1350
1300
1250

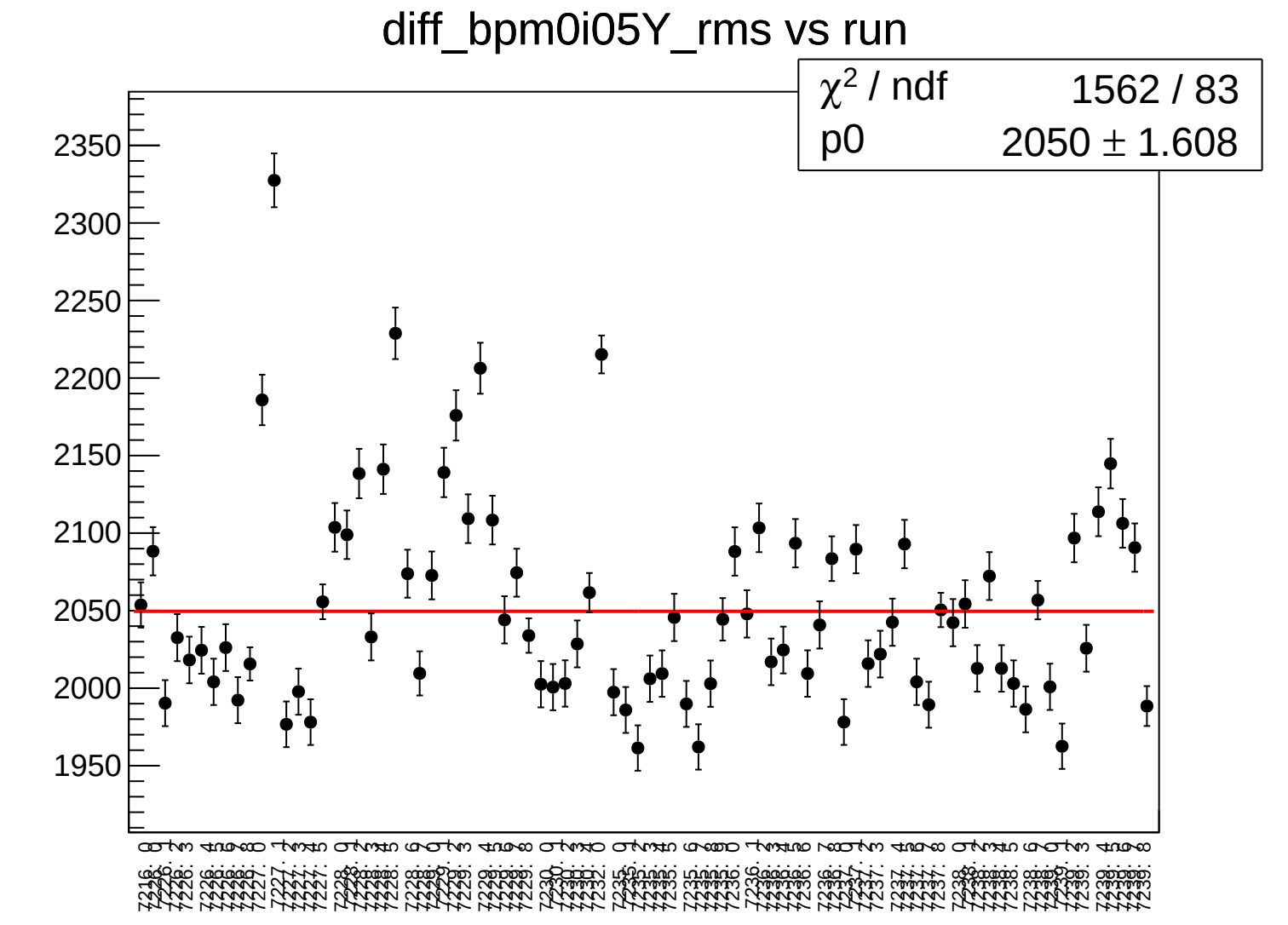

diff_bpm0i05X_mean vs run
χ² / ndf 86.26 / 83
p0 54.8 ± 2.783
pull
Entries 84
Mean 37.5
Std Dev 72.37

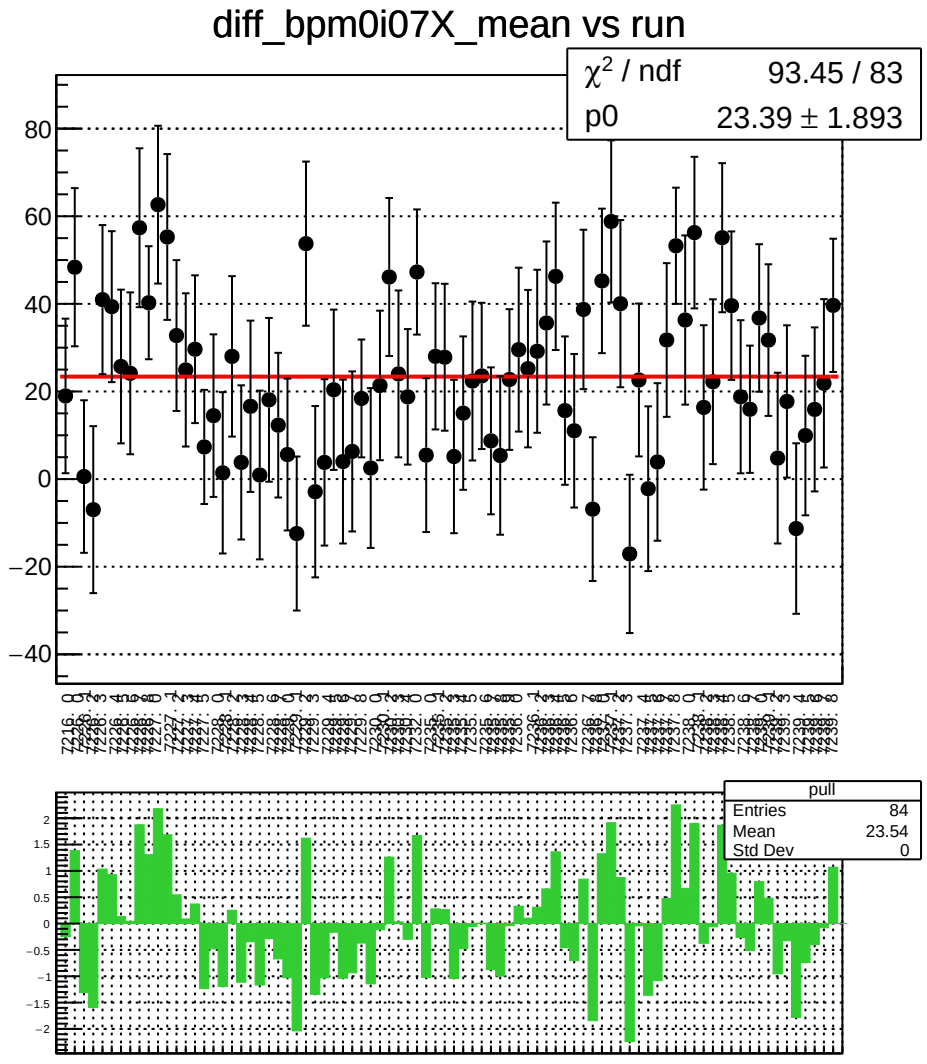

pull1D
Entries 84
Mean −0.01876
Std Dev 1.013

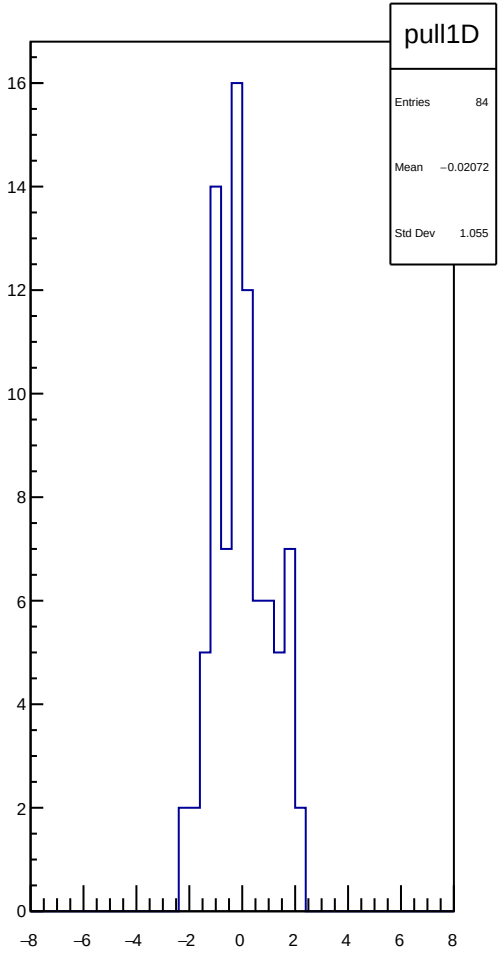

diff_bpm0i05X_rms vs run
χ² / ndf 4145 / 83
p0 2507 ± 1.968
2900
2800
2700
2600
2500
2400
2300
2200

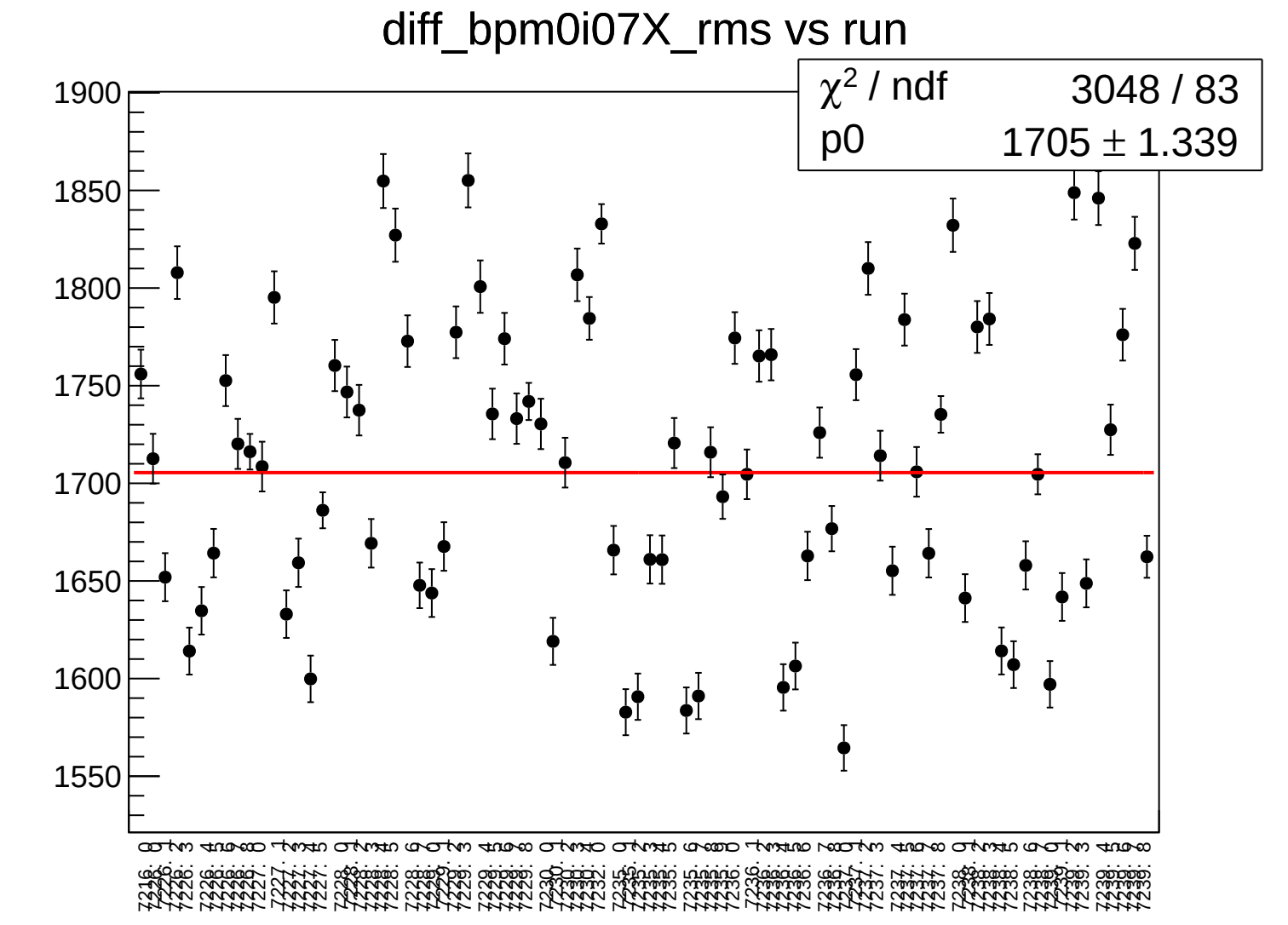

diff_bpm0i05Y_mean vs run
χ^2 / ndf 88.25 / 83
p0 22.7 ± 2.274
pull
Entries 84
Mean −27.04
Std Dev 43.1

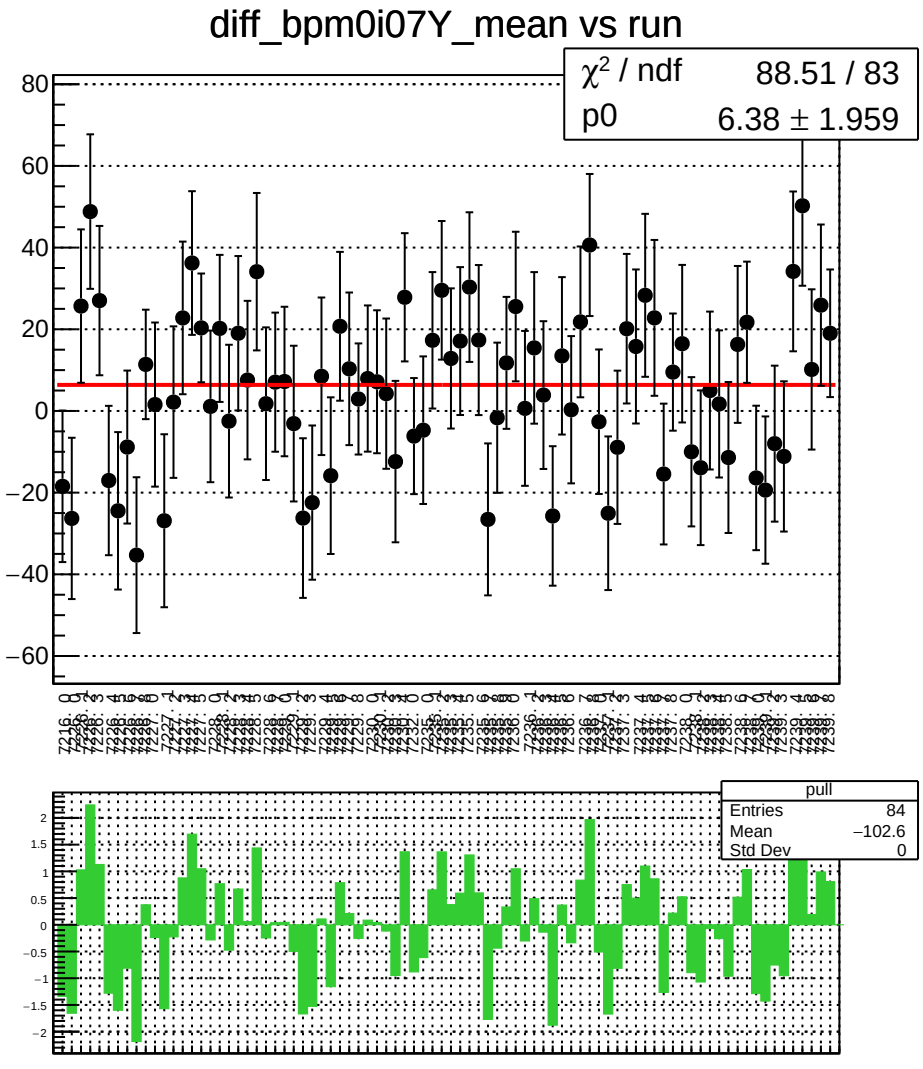

pull1D
Entries 84
Mean −0.01827
Std Dev 1.025

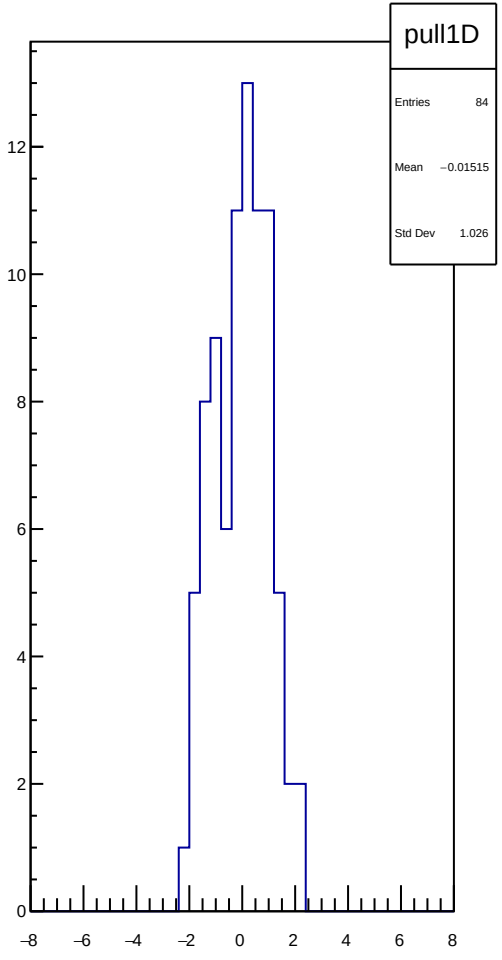

diff_bpm0i05Y_rms vs run
χ² / ndf 1562 / 83
p0 2050 ± 1.608
2350
2300
2250
2200
2150
2100
2050
2000
1950

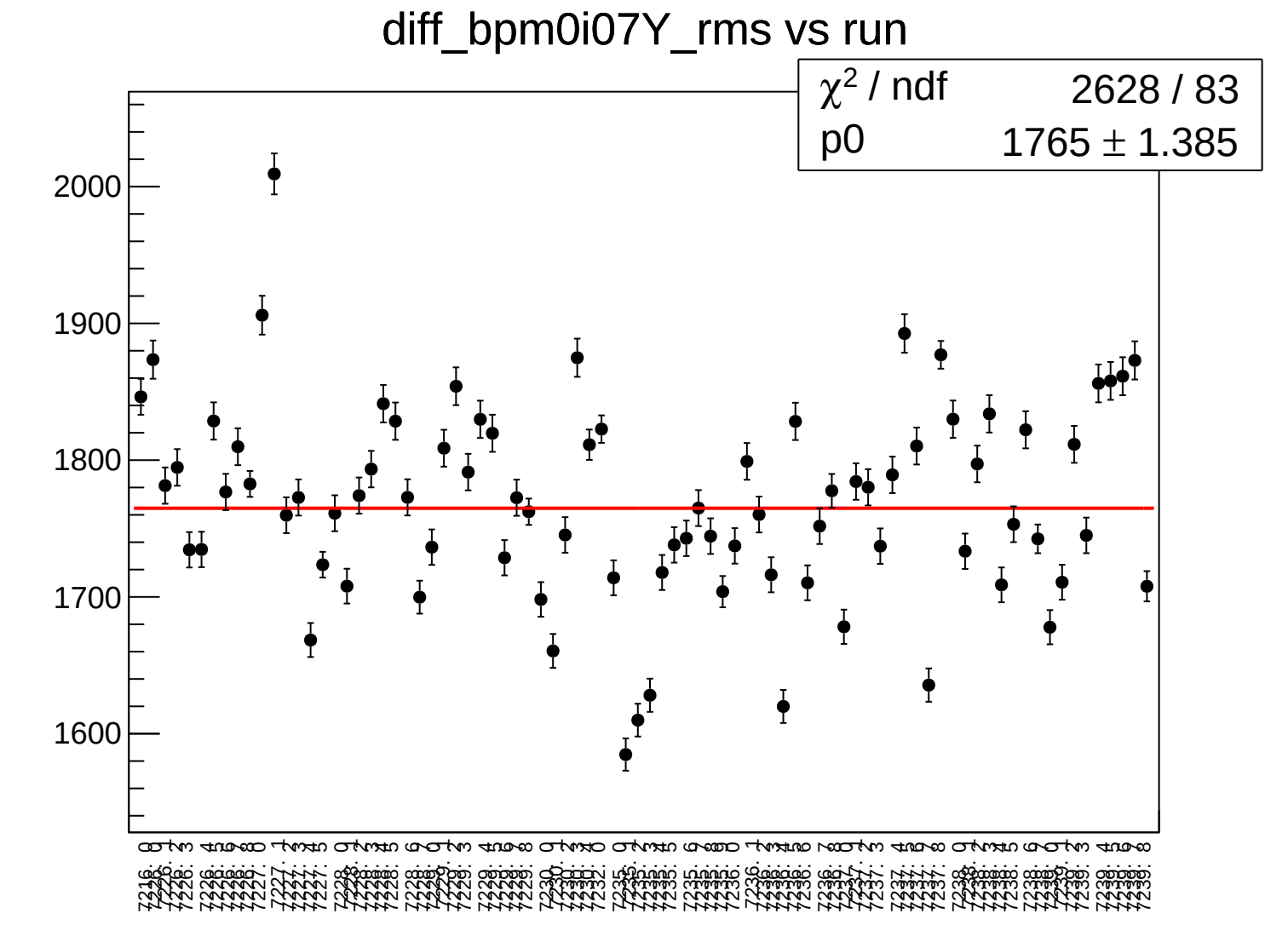

diff_bpm0i07X_mean vs run
χ² / ndf 93.45 / 83
p0 23.39 ± 1.893
pull
Entries 84
Mean 23.54
Std Dev 0

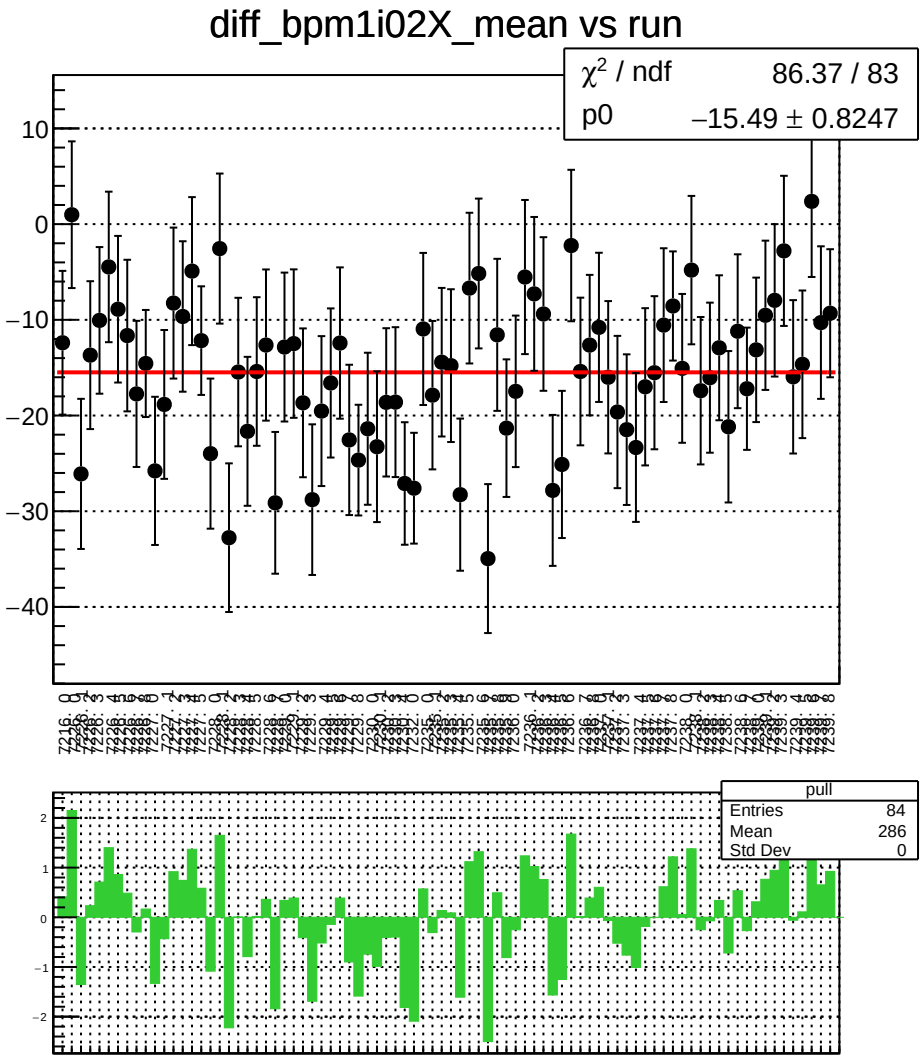

pull1D
Entries 84
Mean −0.02072
Std Dev 1.055

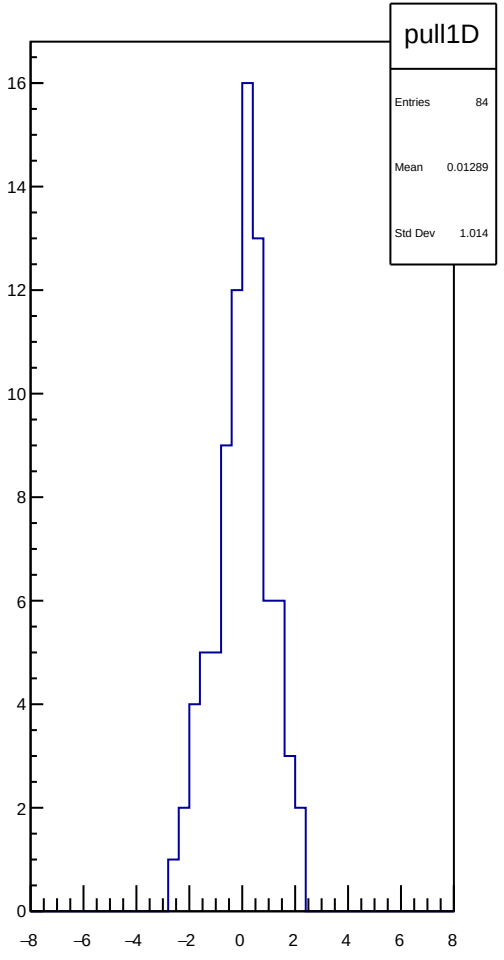

diff_bpm0i07X_rms vs run
χ² / ndf 3048 / 83
p0 1705 ± 1.339
1900
1850
1800
1750
1700
1650
1600
1550

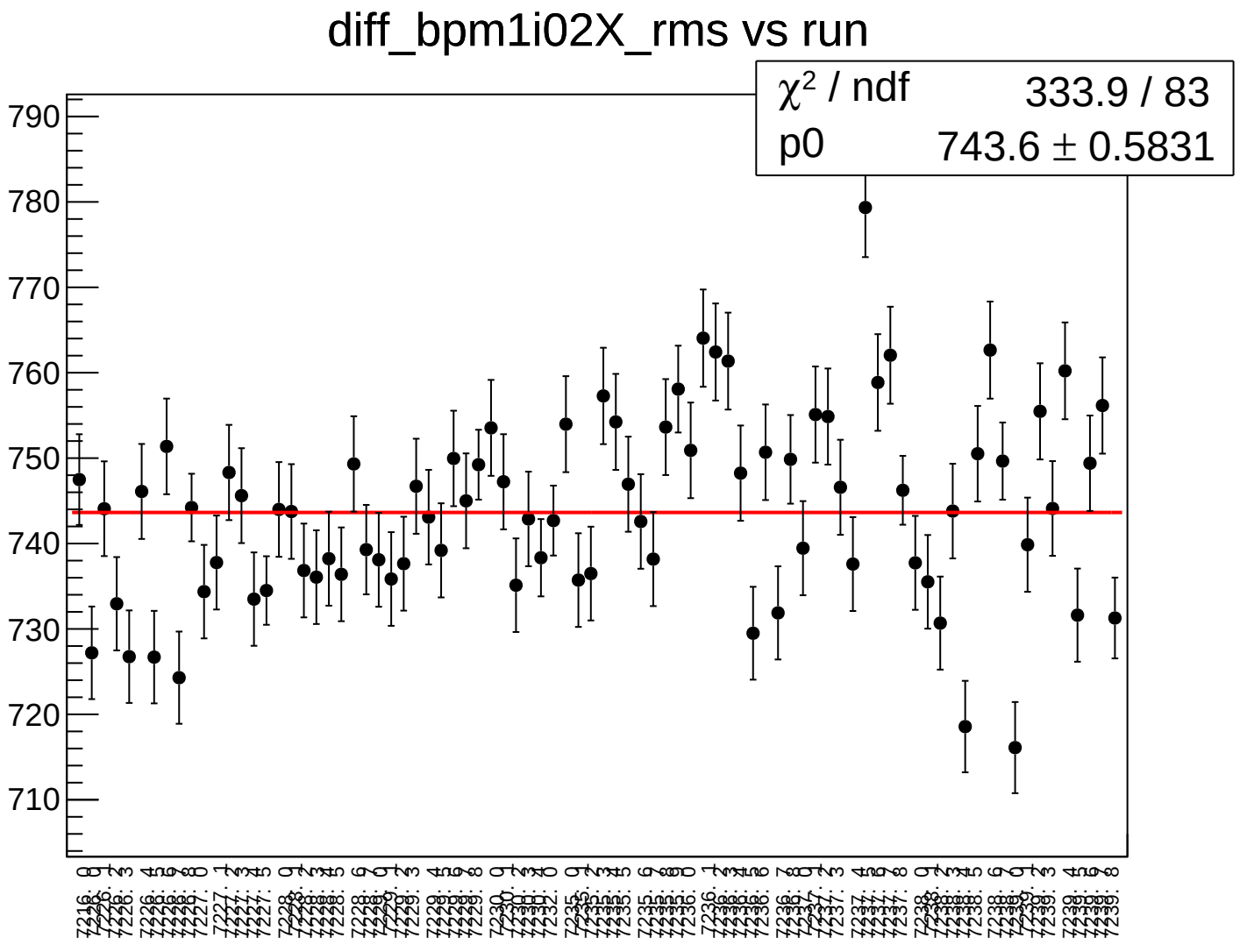

diff_bpm0i07Y_mean vs run
χ² / ndf 88.51 / 83
p0 6.38 ± 1.959
pull
Entries 84
Mean −102.6
Std Dev 0

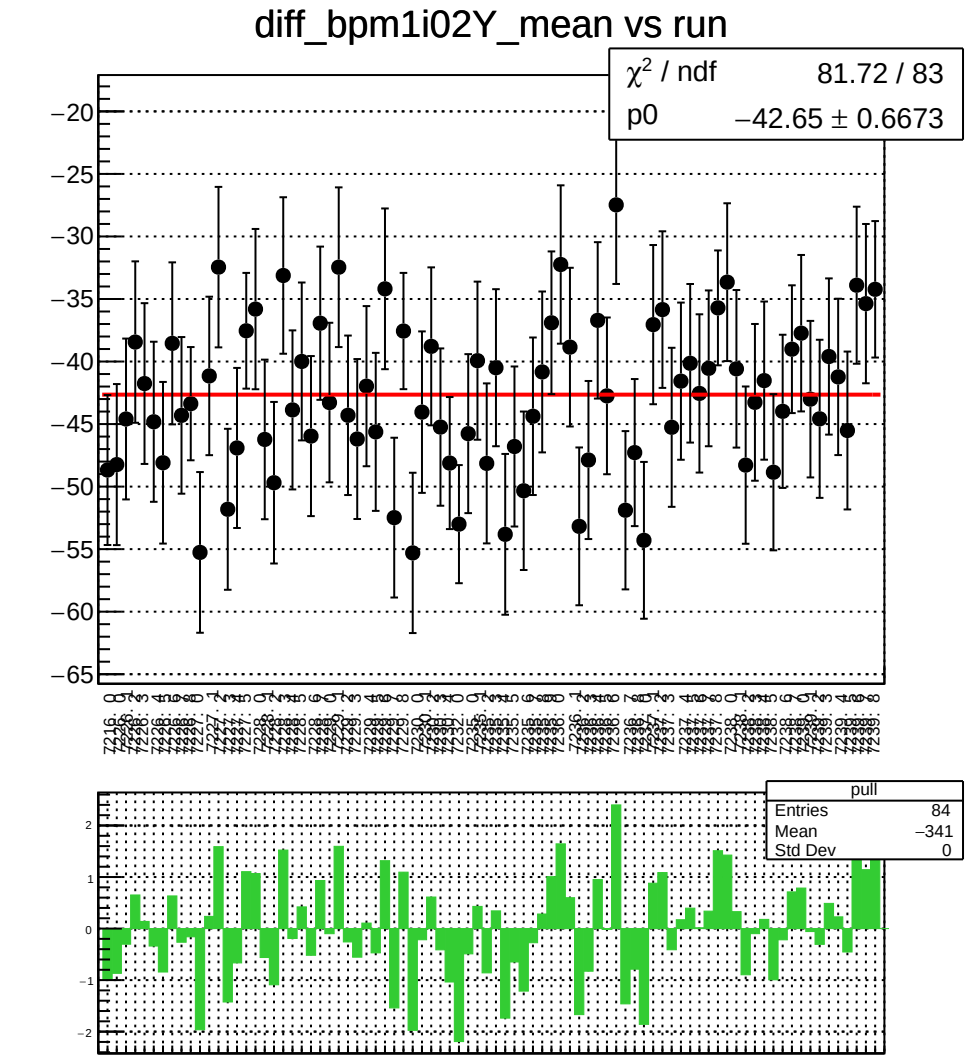

pull1D
Entries 84
Mean −0.01515
Std Dev 1.026

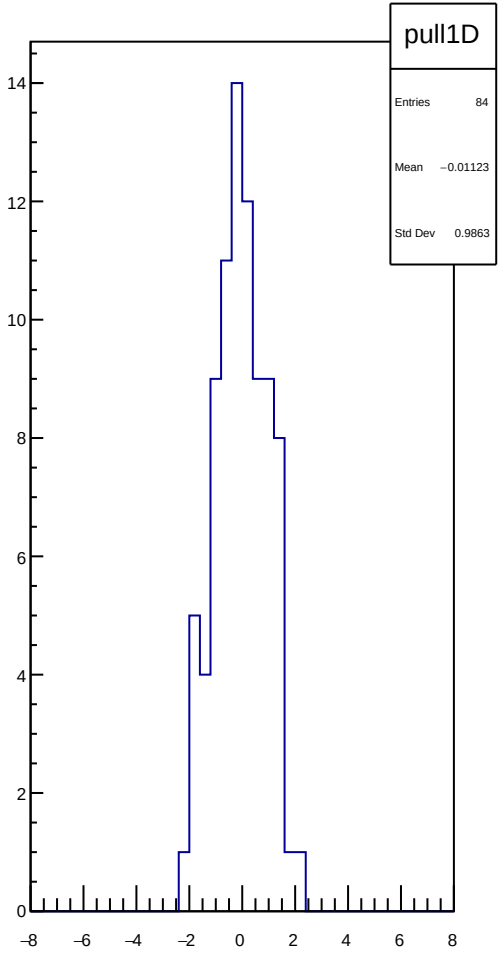

diff_bpm0i07Y_rms vs run
χ² / ndf 2628 / 83
p0 1765 ± 1.385
2000
1900
1800
1700
1600

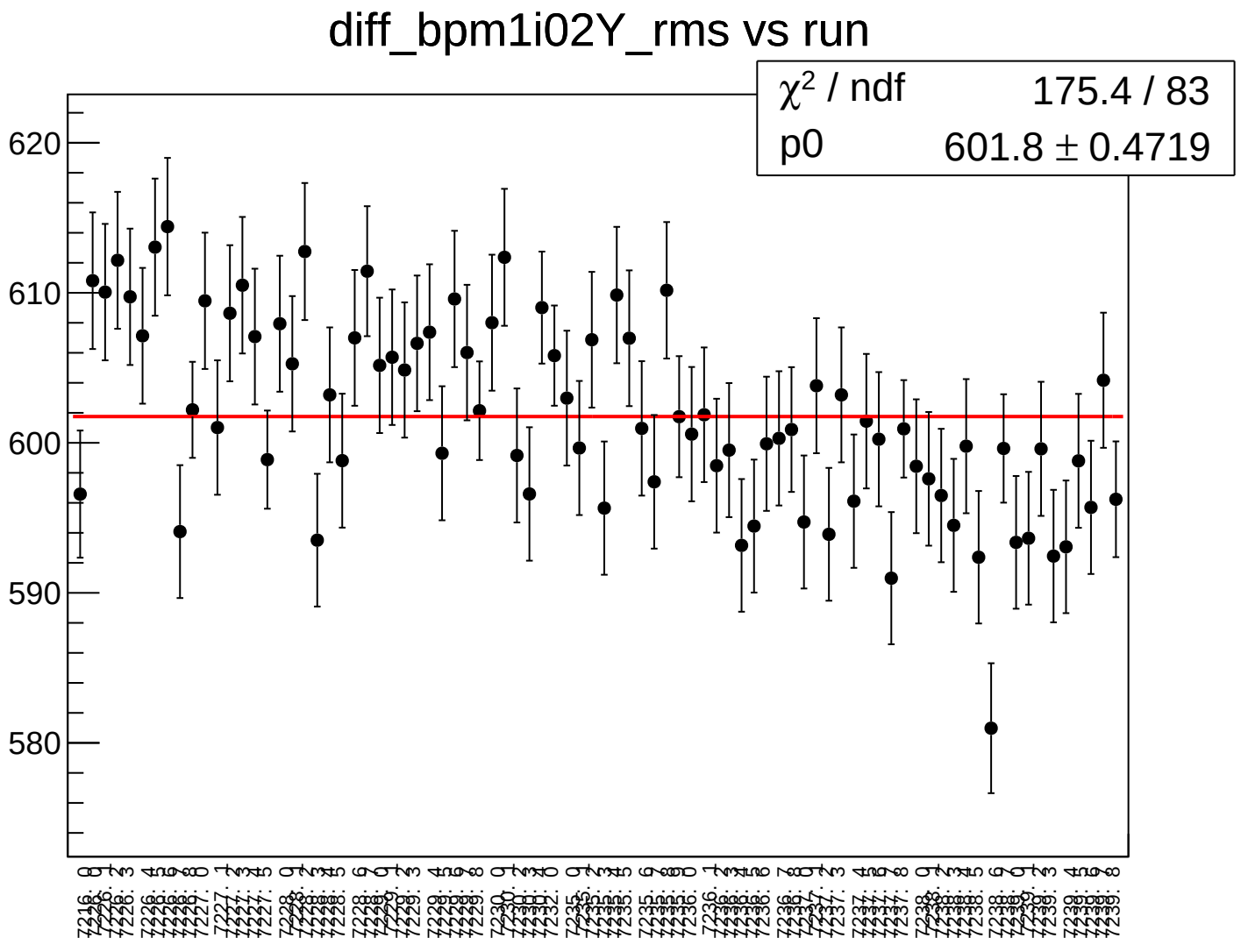

diff_bpm1i02X_mean vs run
χ² / ndf 86.37 / 83
p0 −15.49 ± 0.8247
pull
Entries 84
Mean 286
Std Dev 0

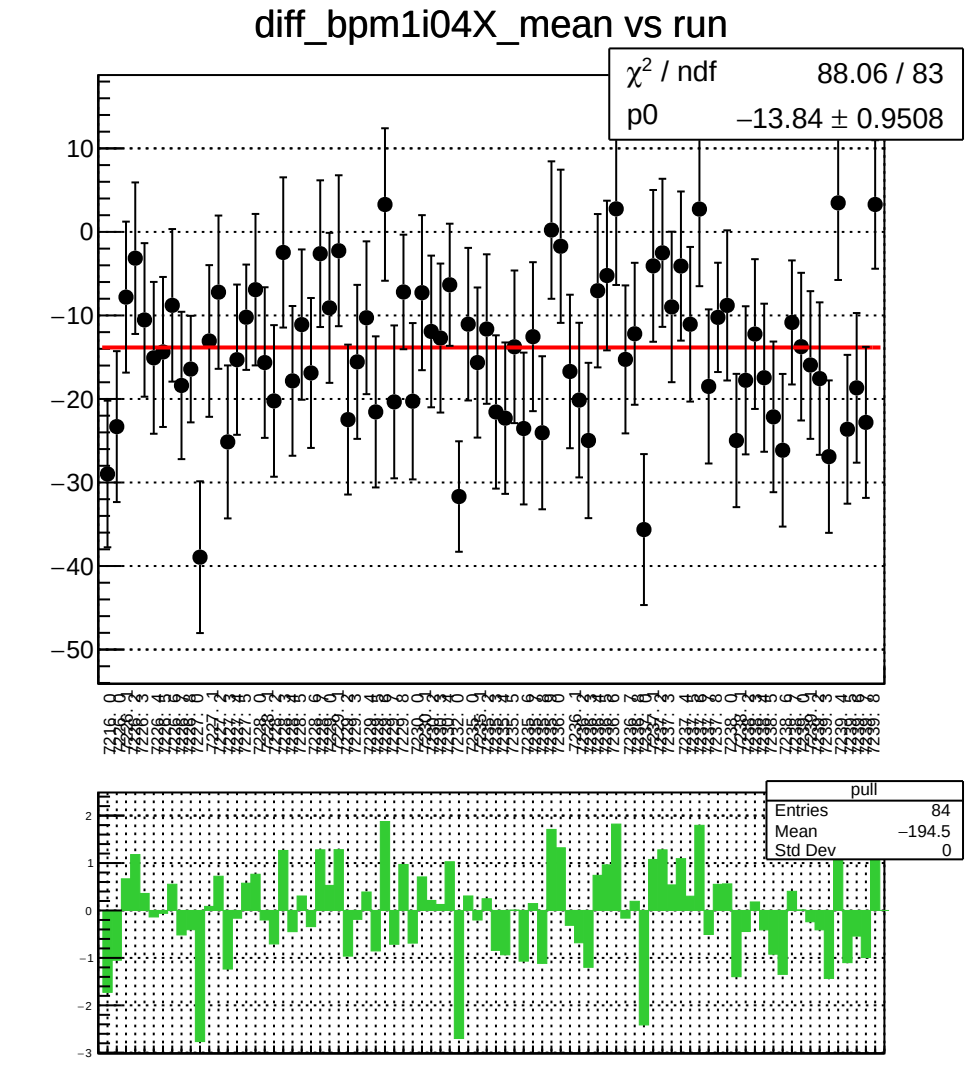

pull1D
Entries 84
Mean 0.01289
Std Dev 1.014

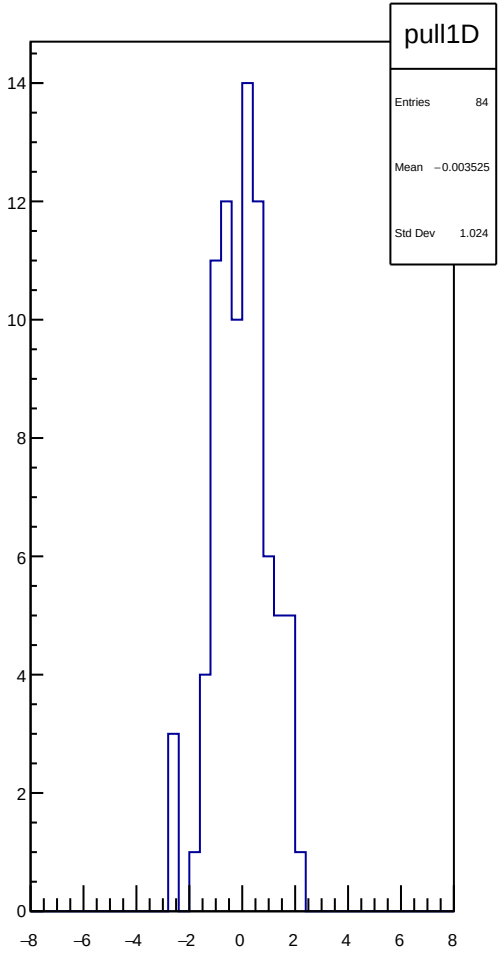

diff_bpm1i02X_rms vs run
χ² / ndf 333.9 / 83
p0 743.6 ± 0.5831
790
780
770
760
750
740
730
720
710

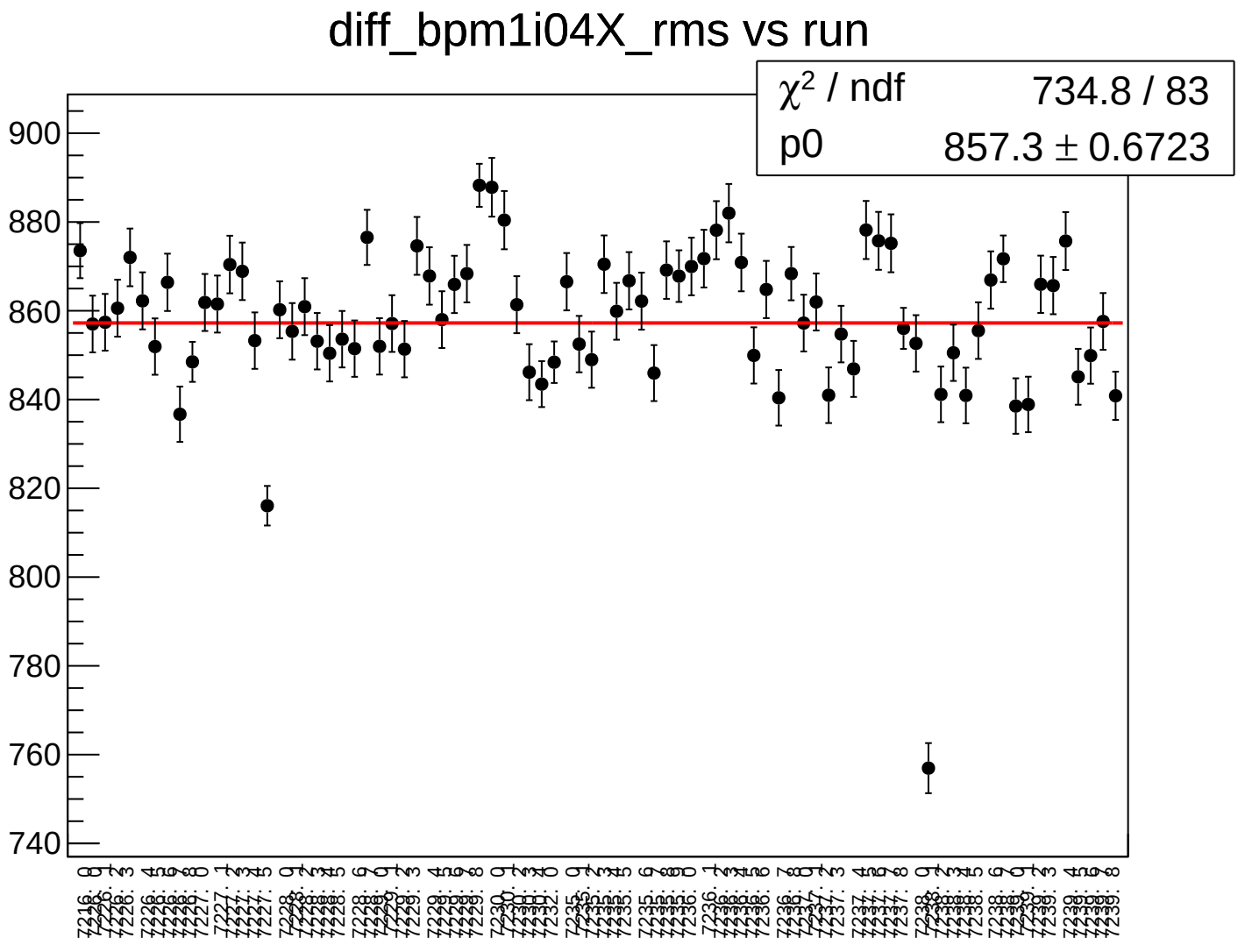

diff_bpm1i02Y_mean vs run
χ² / ndf 81.72 / 83
p0 −42.65 ± 0.6673
pull
Entries 84
Mean −341
Std Dev 0

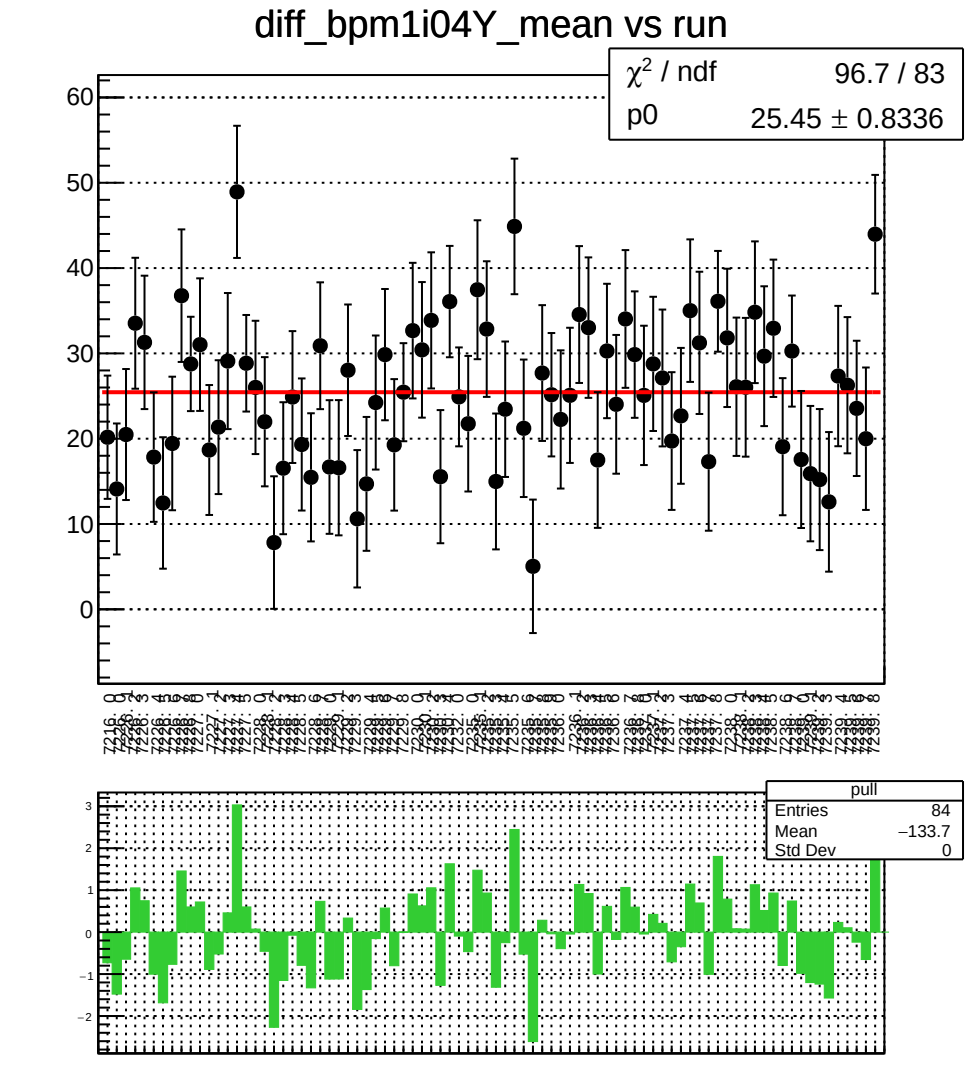

pull1D
Entries 84
Mean −0.01123
Std Dev 0.9863

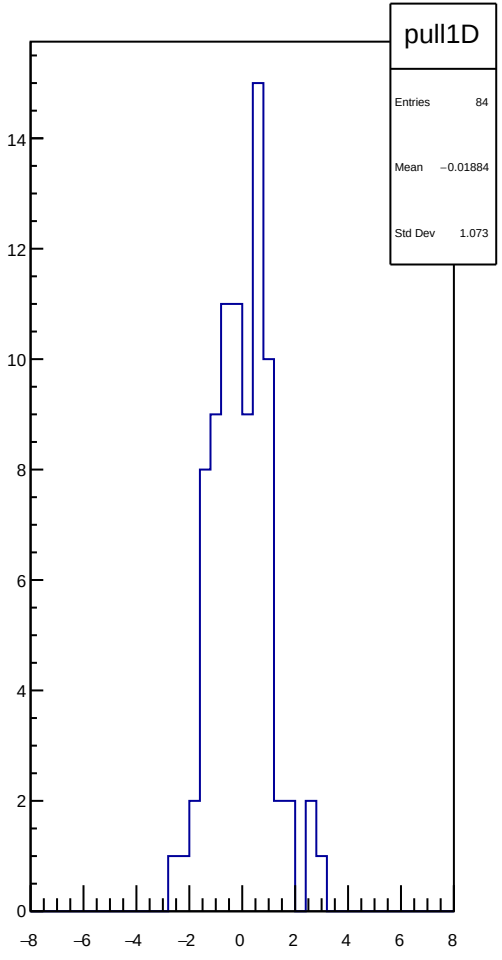

diff_bpm1i02Y_rms vs run
χ² / ndf 175.4 / 83
p0 601.8 ± 0.4719
620
610
600
590
580

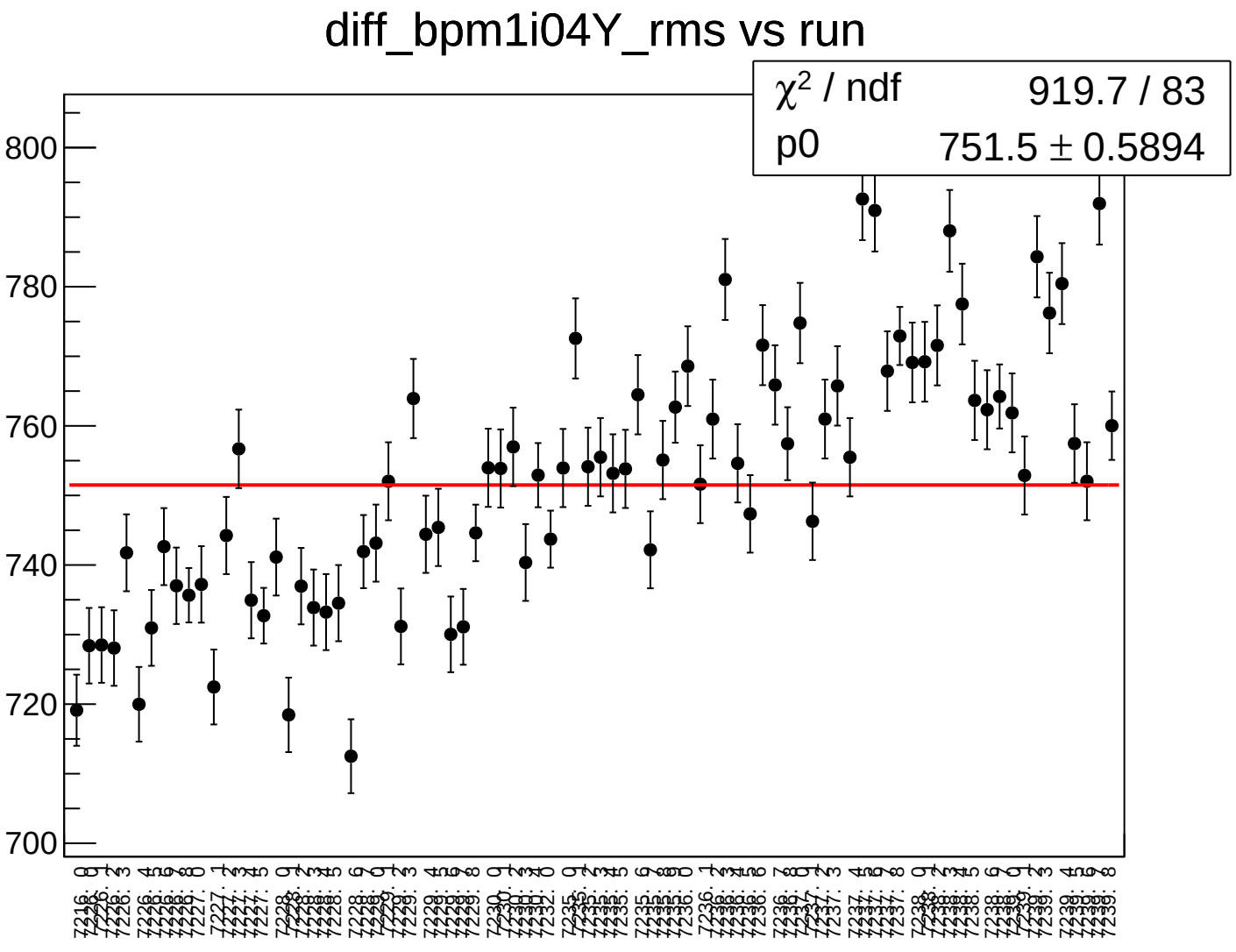

diff_bpm1i04X_mean vs run
χ² / ndf 88.06 / 83
p0 −13.84 ± 0.9508
pull
Entries 84
Mean −194.5
Std Dev 0

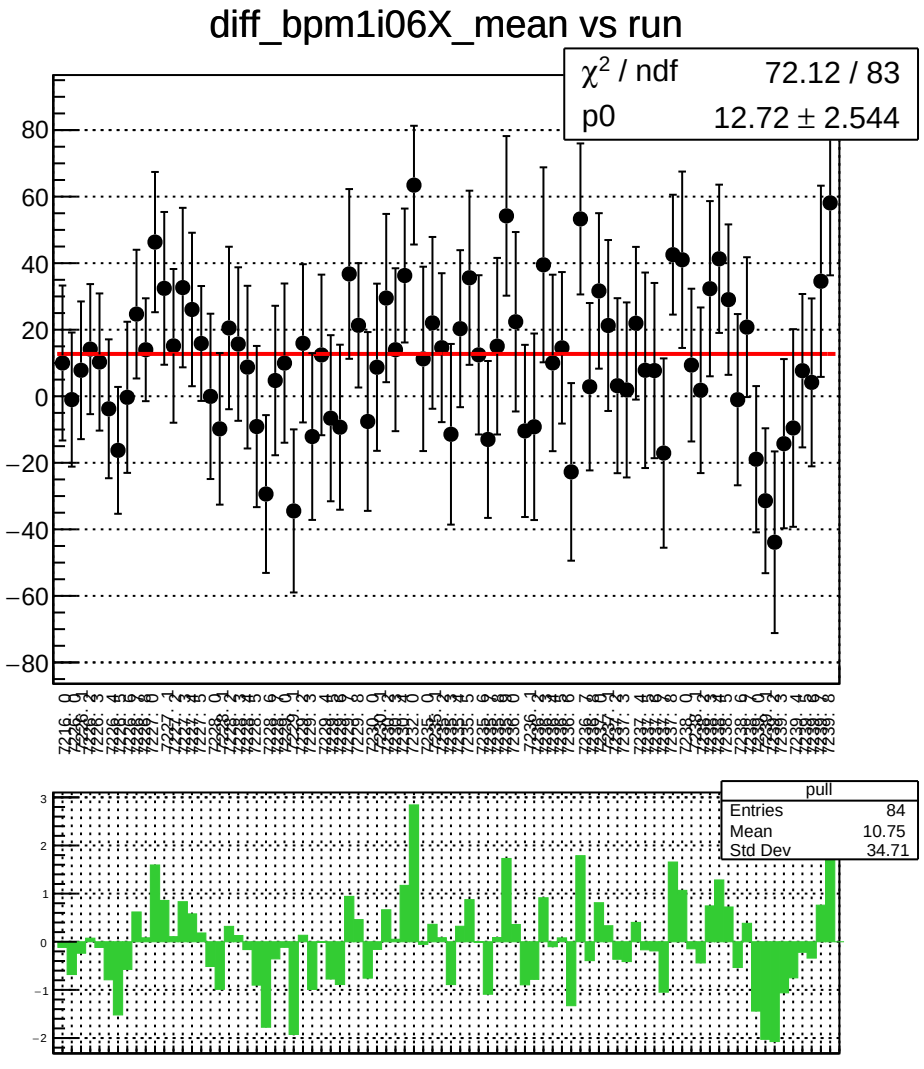

pull1D
Entries 84
Mean −0.003525
Std Dev 1.024

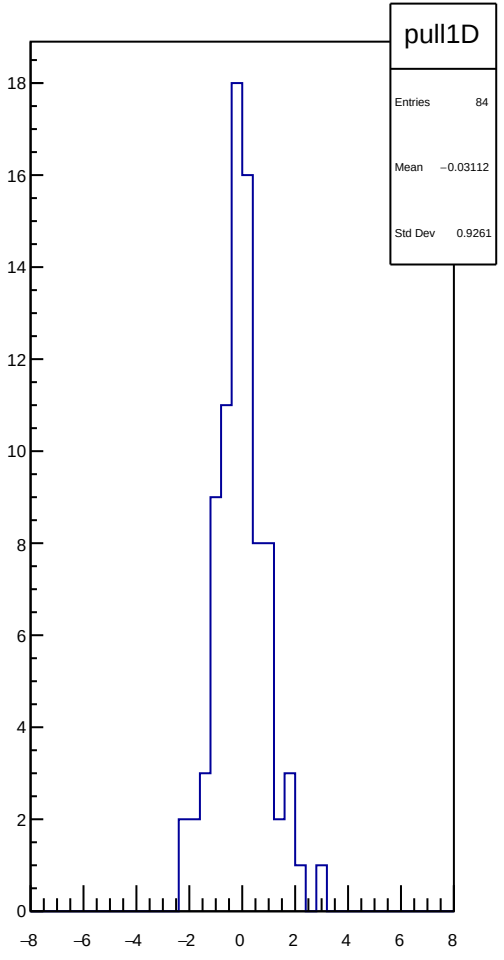

diff_bpm1i04X_rms vs run
χ² / ndf 734.8 / 83
p0 857.3 ± 0.6723
900
880
860
840
820
800
780
760
740

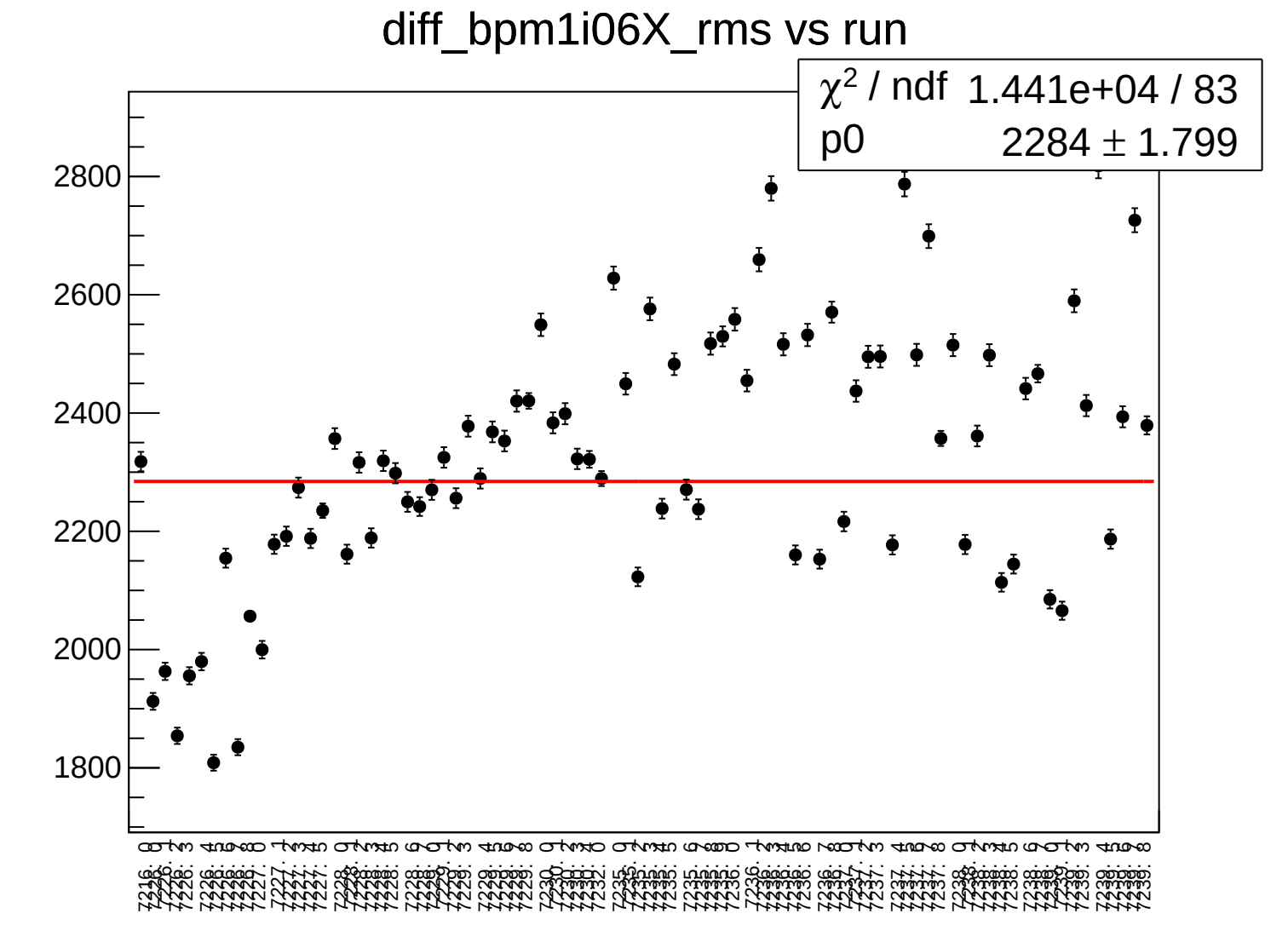

diff_bpm1i04Y_mean vs run
χ² / ndf 96.7 / 83
p0 25.45 ± 0.8336
pull
Entries 84
Mean −133.7
Std Dev 0

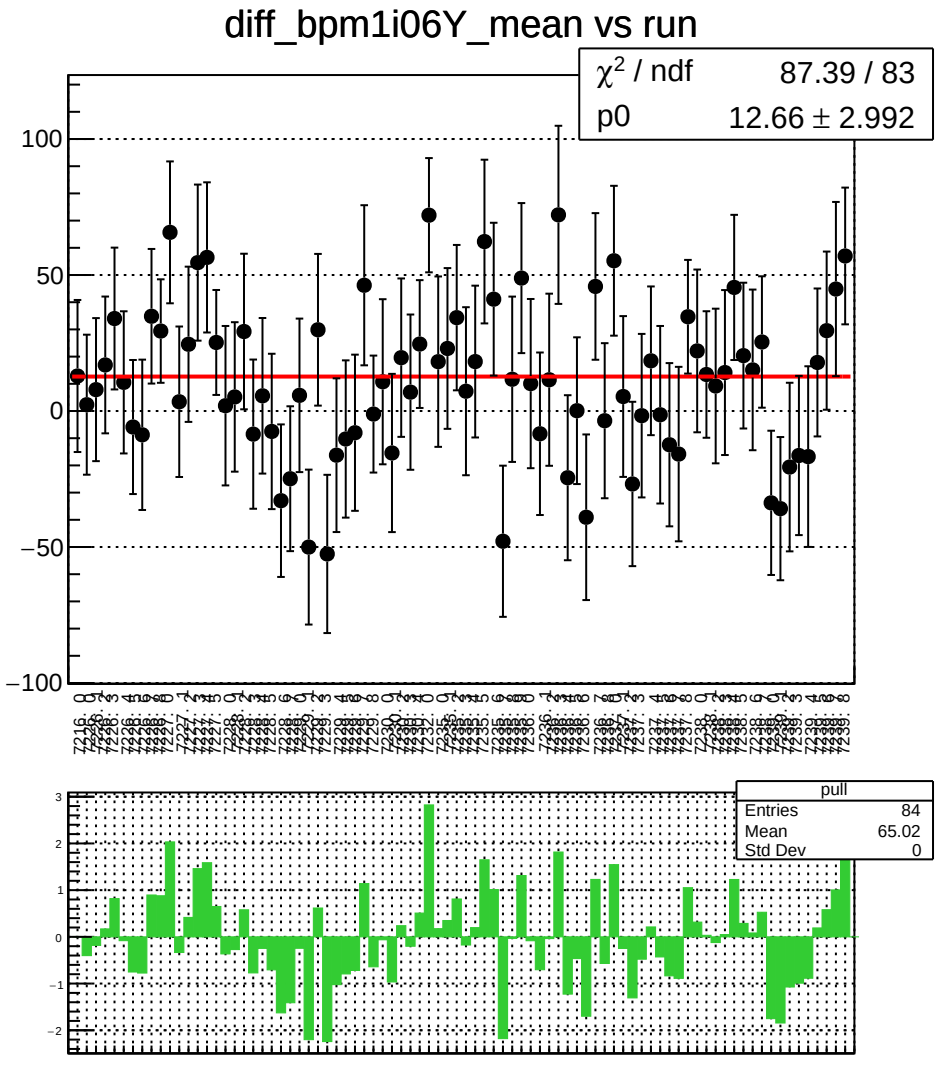

pull1D
Entries 84
Mean −0.01884
Std Dev 1.073

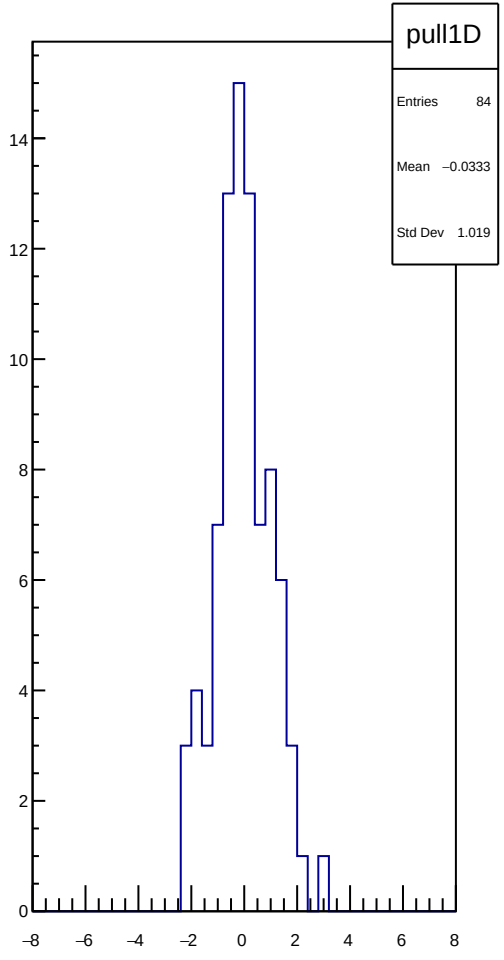

diff_bpm1i04Y_rms vs run
χ² / ndf 919.7 / 83
p0 751.5 ± 0.5894
800
780
760
740
720
700

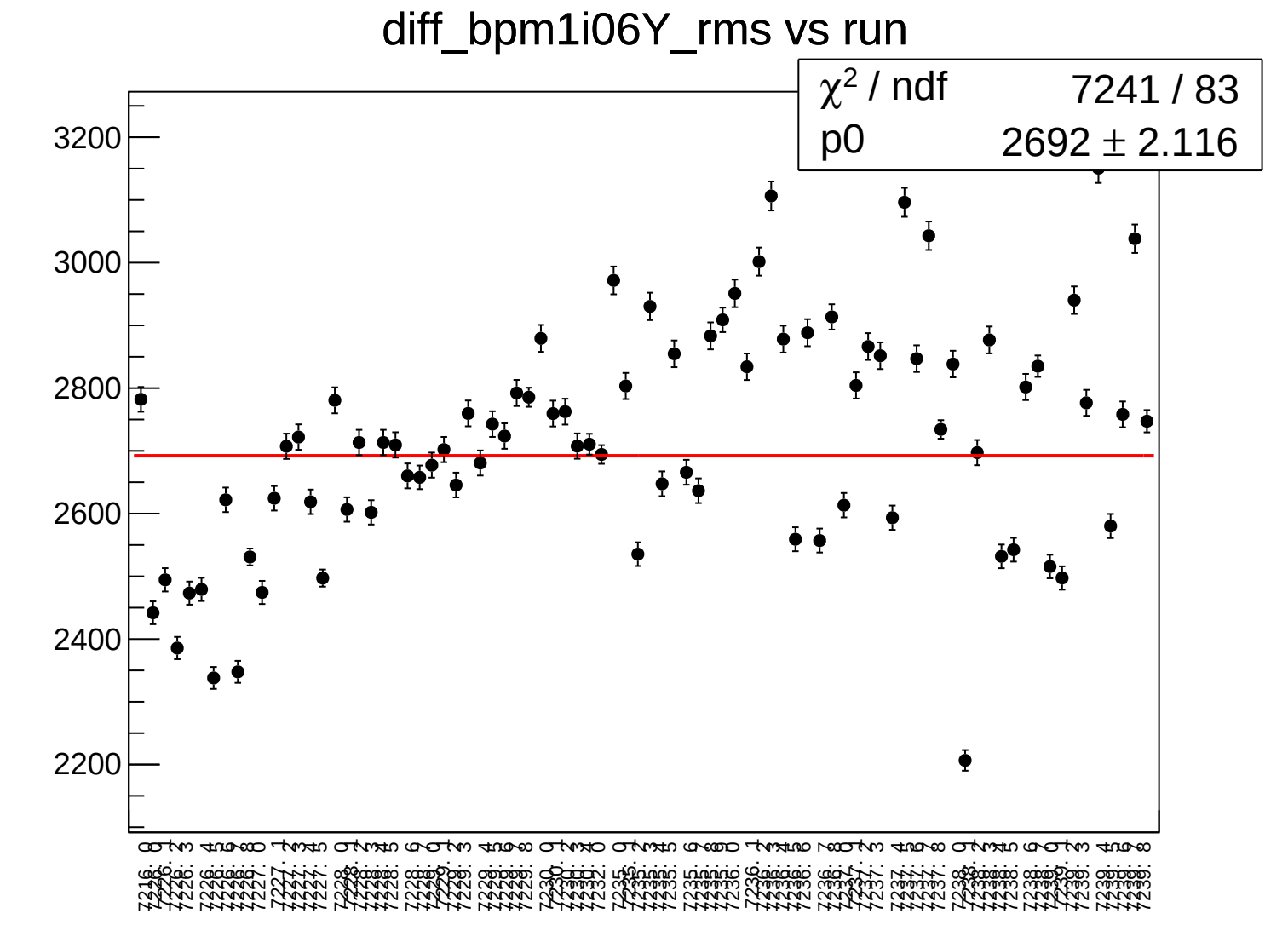

diff_bpm1i06X_mean vs run
χ^2 / ndf 72.12 / 83
p0 12.72 ± 2.544
pull
Entries 84
Mean 10.75
Std Dev 34.71

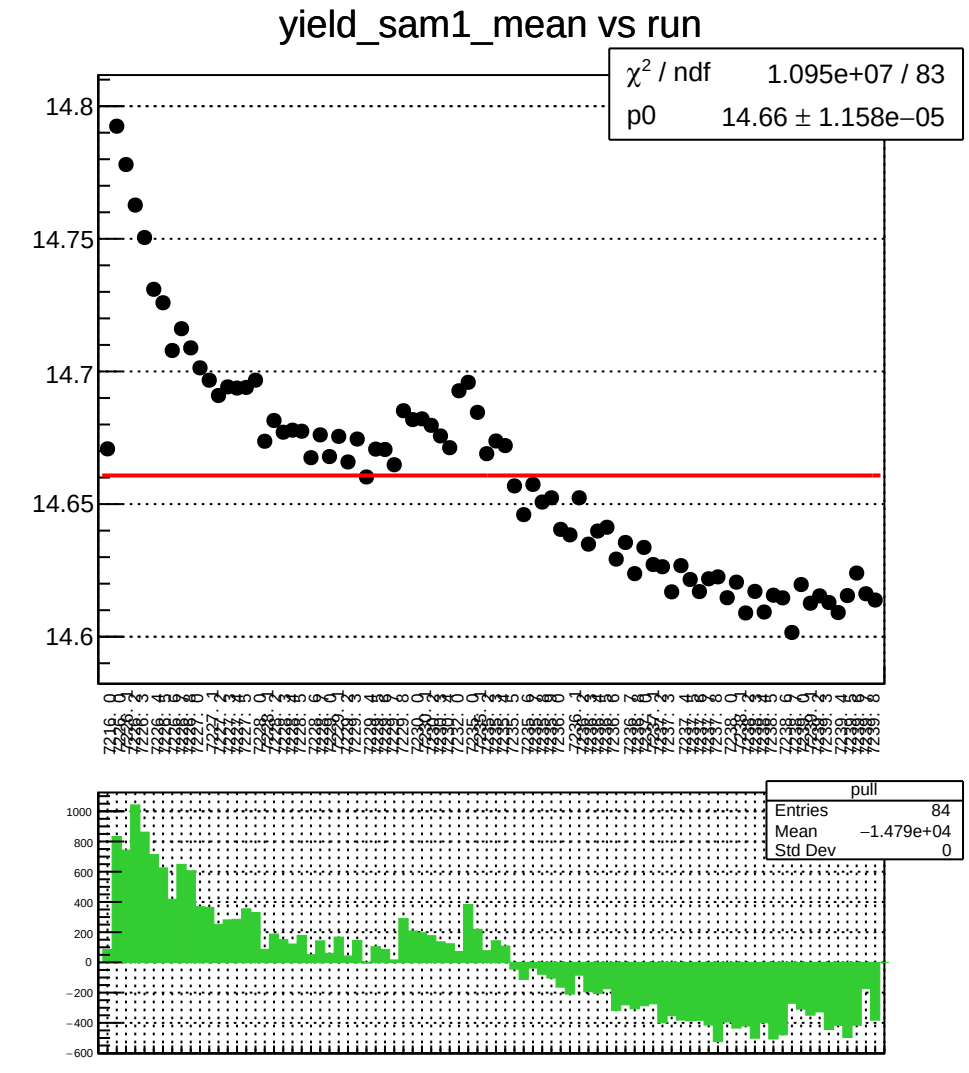

pull1D
Entries 84
Mean −0.03112
Std Dev 0.9261

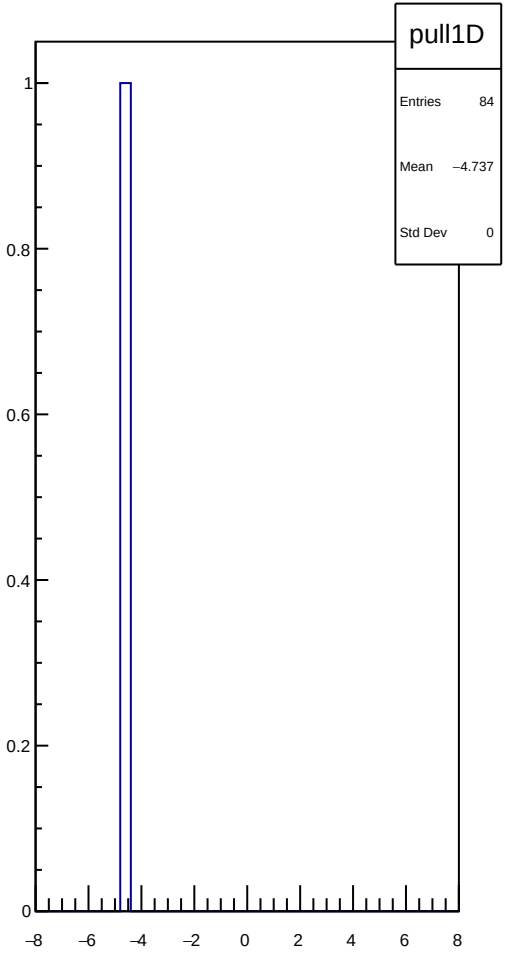

diff_bpm1i06X_rms vs run
χ² / ndf 1.441e+04 / 83
p0 2284 ± 1.799
2800
2600
2400
2200
2000
1800

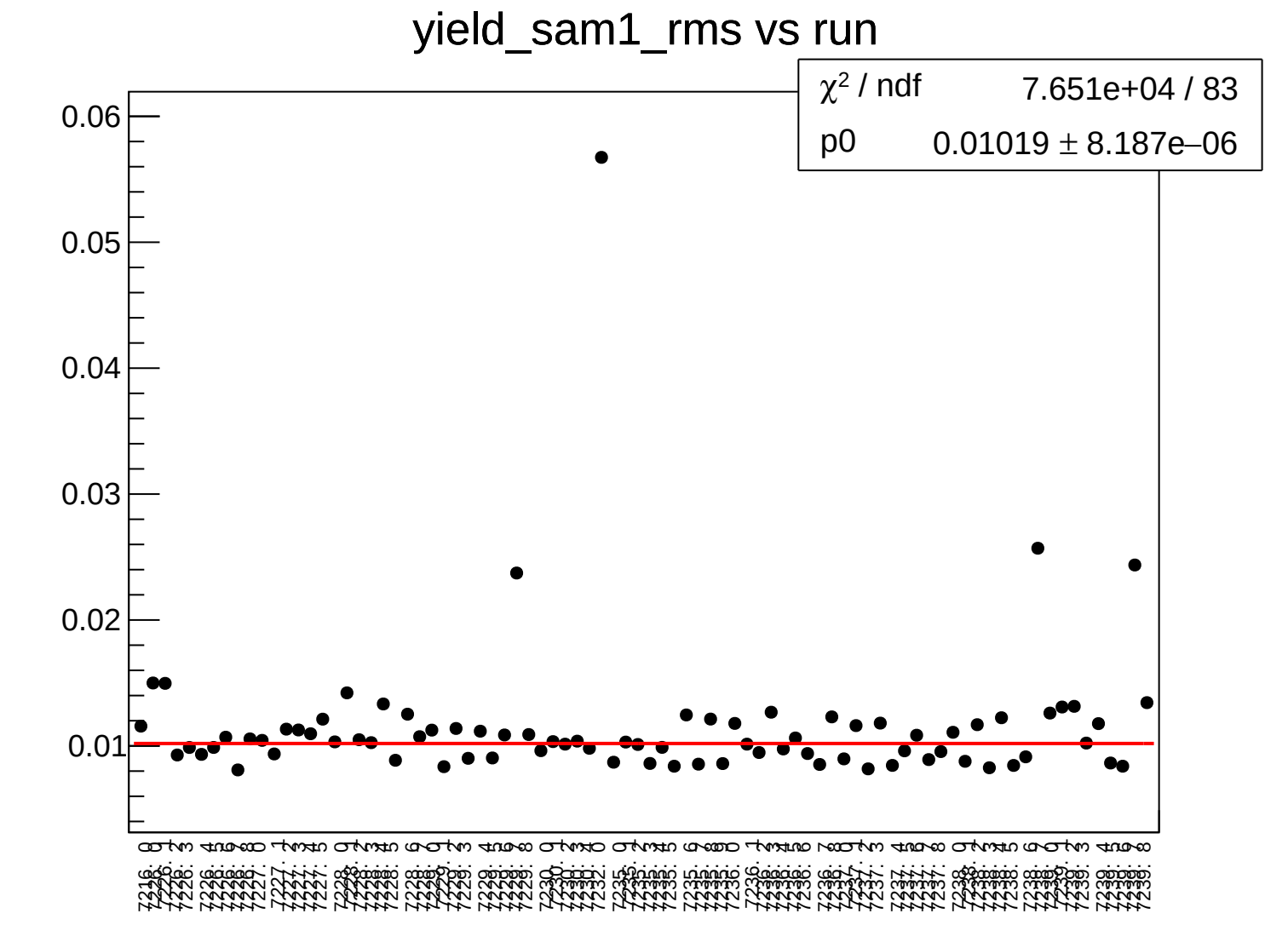

diff_bpm1i06Y_mean vs run
χ² / ndf 87.39 / 83
p0 12.66 ± 2.992
100
50
0
−50
−100
pull
Entries 84
Mean 65.02
Std Dev 0
3
2
1
0
−1
−2

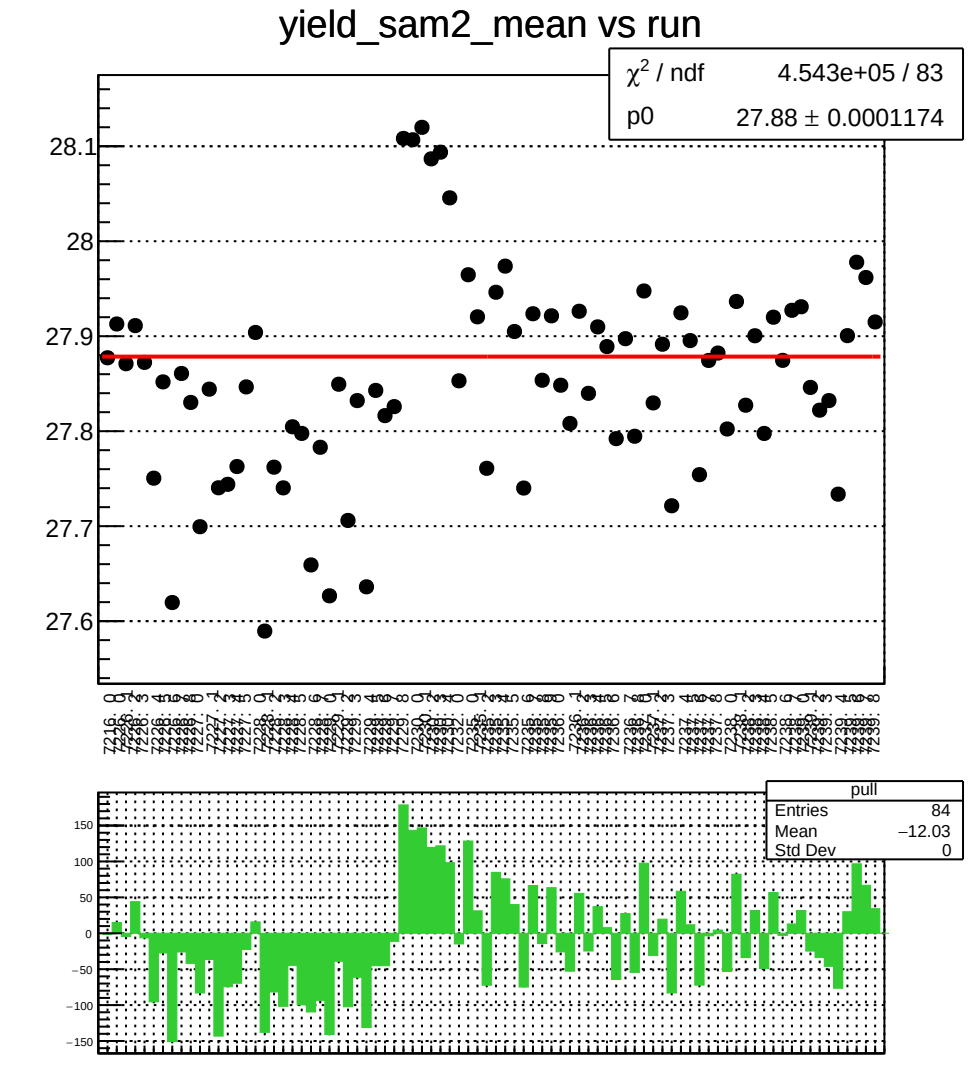

pull1D
Entries 84
Mean −0.0333
Std Dev 1.019
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

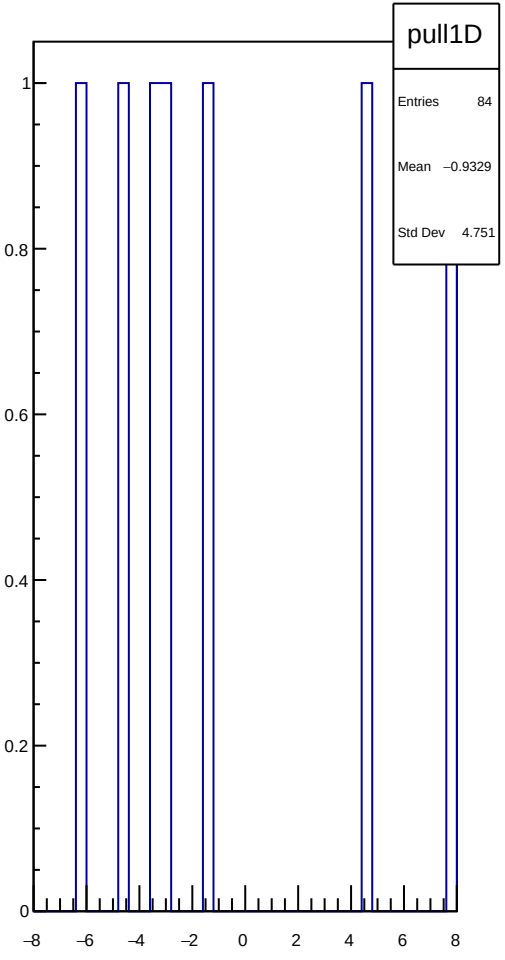

diff_bpm1i06Y_rms vs run
χ^2 / ndf 7241 / 83
p0 2692 ± 2.116
3200
3000
2800
2600
2400
2200

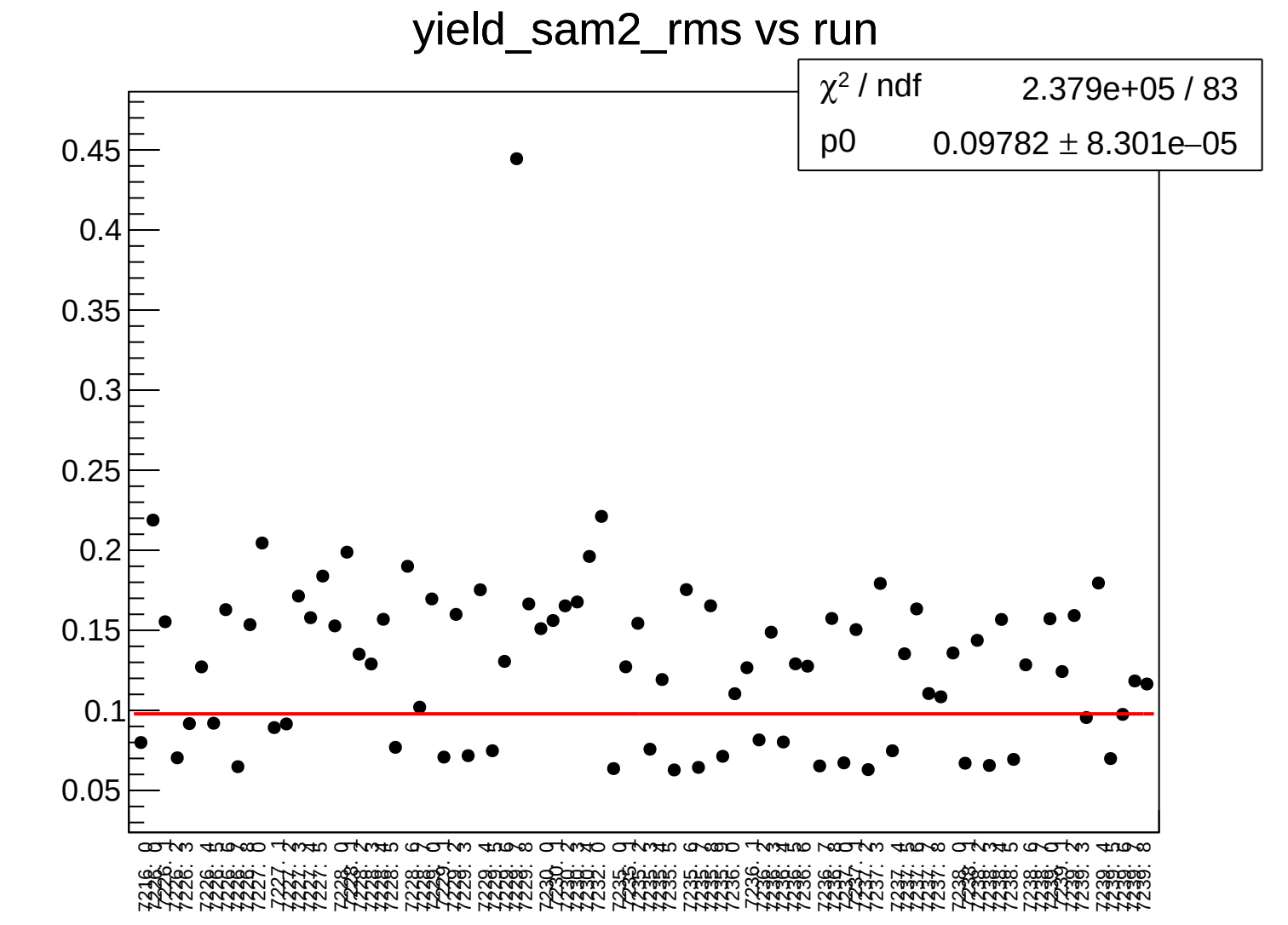

yield_sam1_mean vs run
χ² / ndf 1.095e+07 / 83
p0 14.66 ± 1.158e−05
14.8
14.75
14.7
14.65
14.6
pull
Entries 84
Mean −1.479e+04
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600

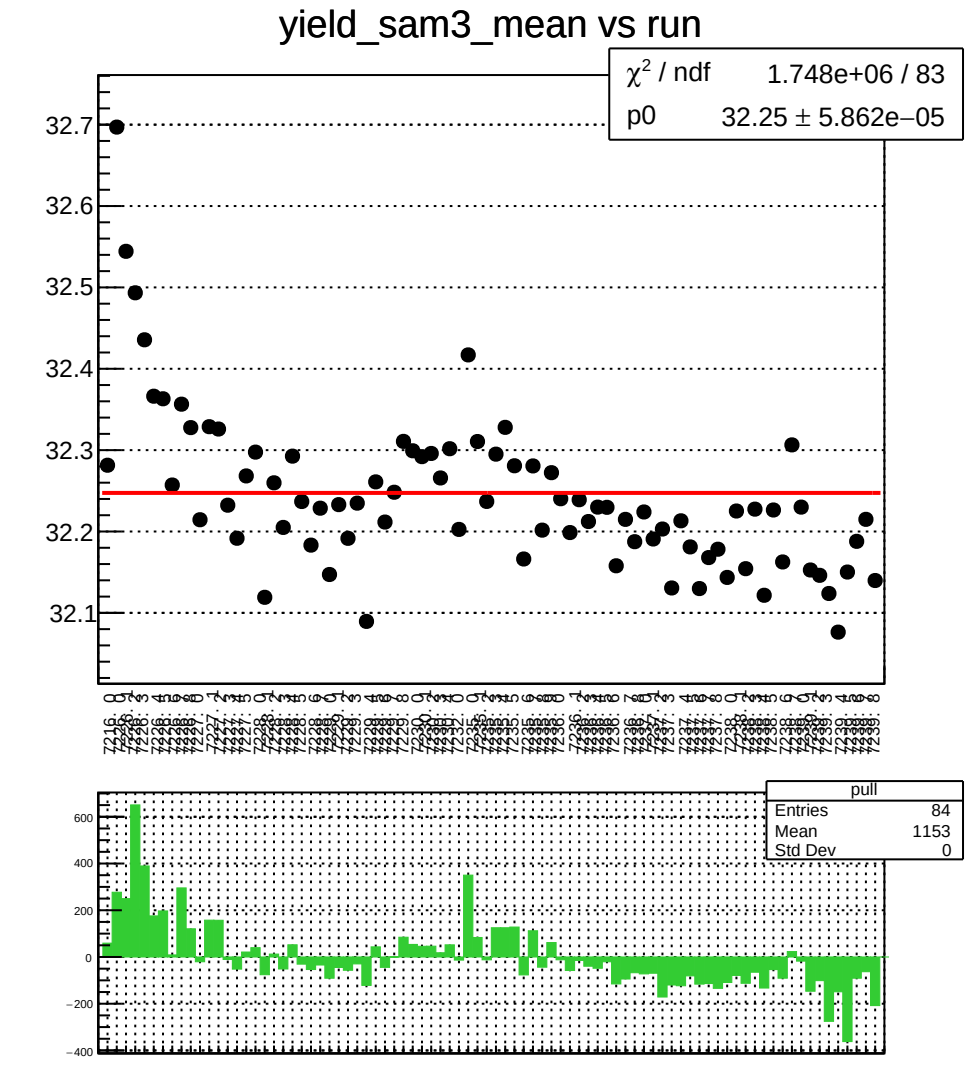

pull1D
Entries 84
Mean −4.737
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

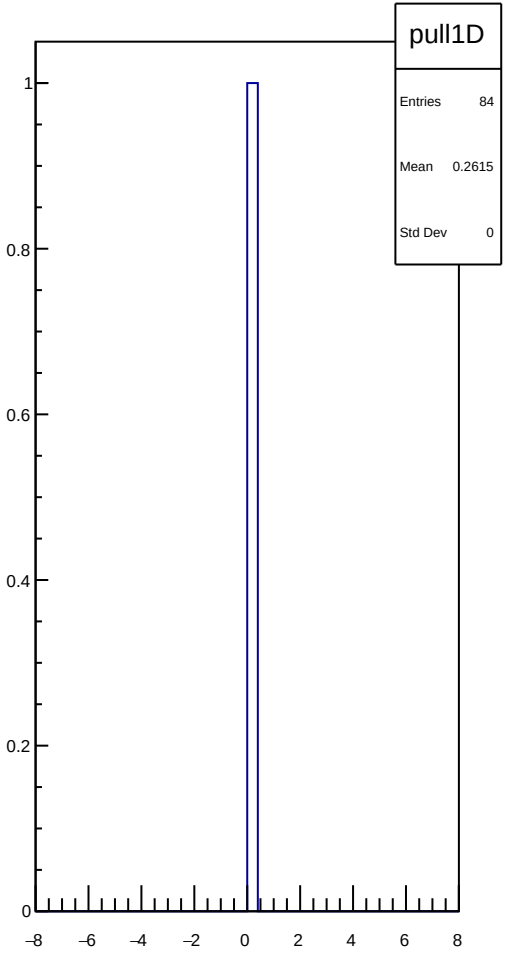

yield_sam1_rms vs run
χ² / ndf 7.651e+04 / 83
p0 0.01019 ± 8.187e–06
0.06
0.05
0.04
0.03
0.02
0.01

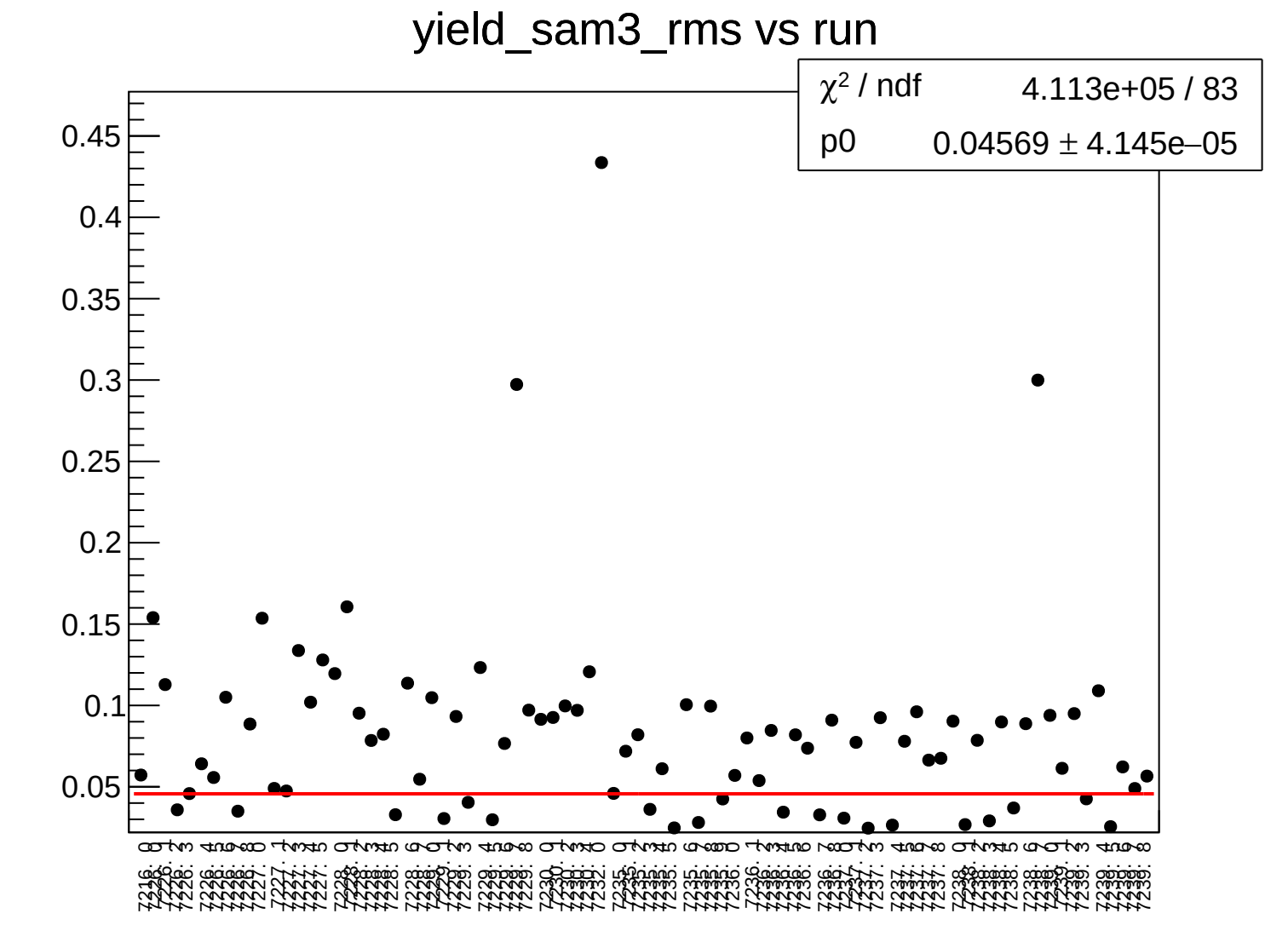

yield_sam2_mean vs run
χ² / ndf 4.543e+05 / 83
p0 27.88 ± 0.0001174
28.1
28
27.9
27.8
27.7
27.6
pull
Entries 84
Mean −12.03
Std Dev 0
150
100
50
0
−50
−100
−150

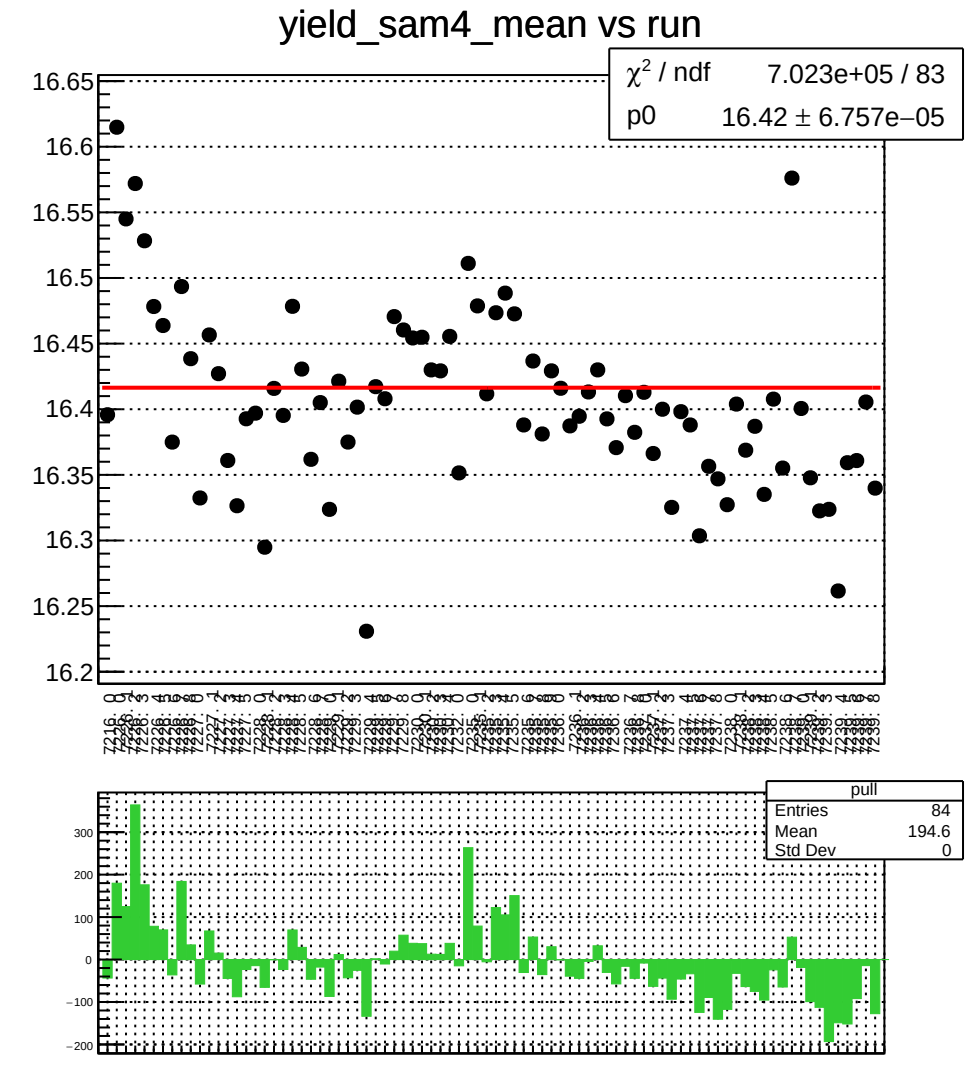

pull1D
Entries 84
Mean −0.9329
Std Dev 4.751
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

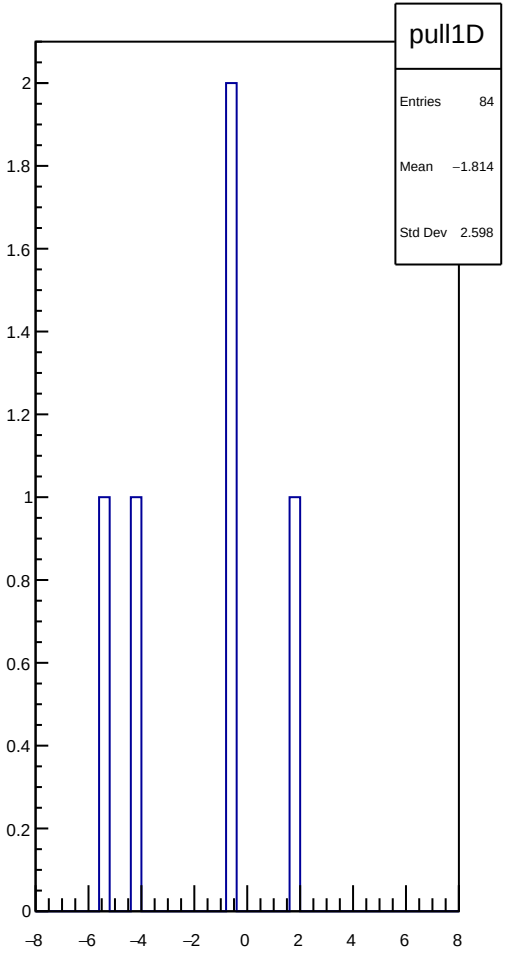

yield_sam2_rms vs run
χ² / ndf 2.379e+05 / 83
p0 0.09782 ± 8.301e–05
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

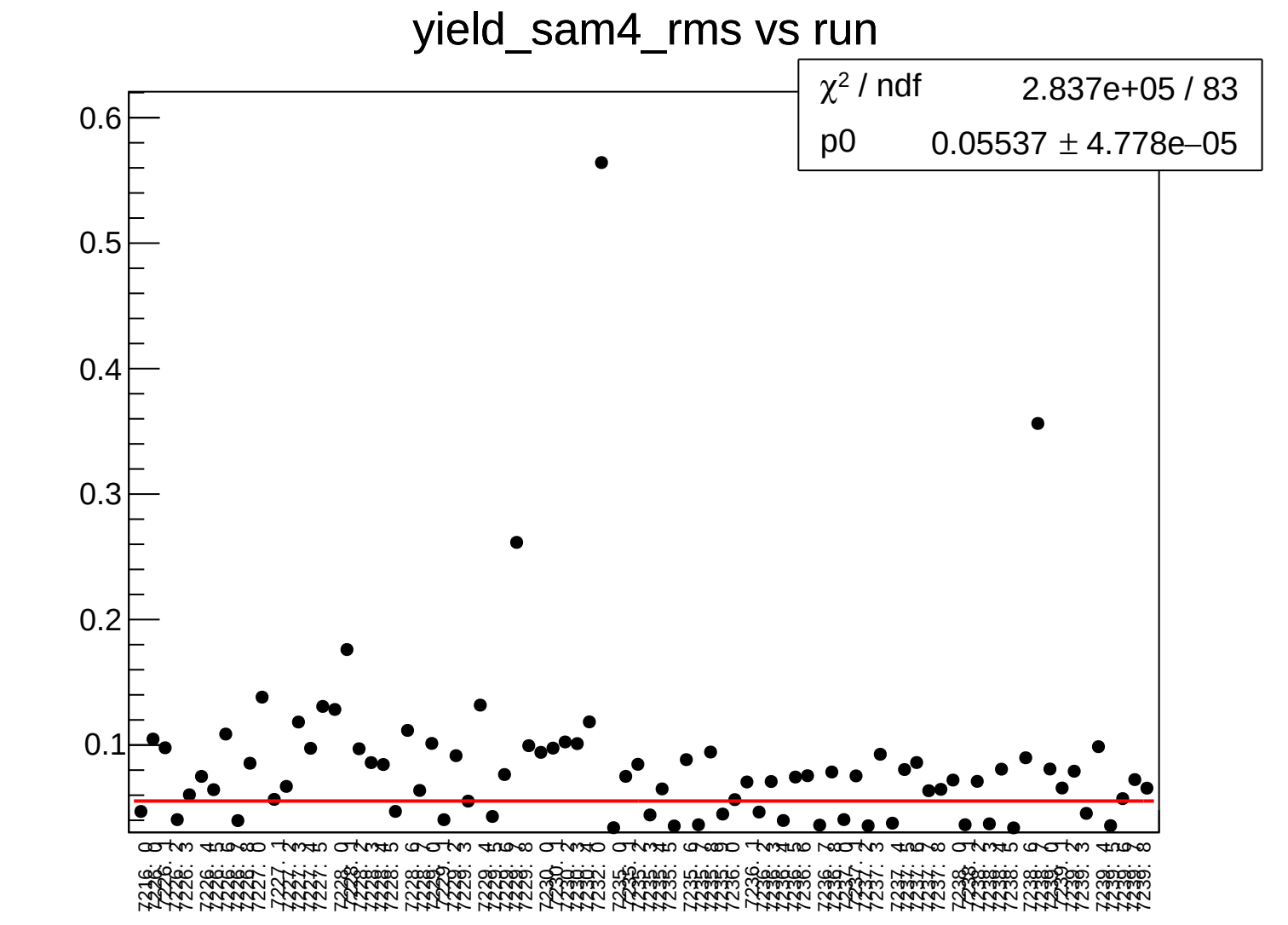

yield_sam3_mean vs run
χ² / ndf 1.748e+06 / 83
p0 32.25 ± 5.862e−05
32.7
32.6
32.5
32.4
32.3
32.2
32.1
pull
Entries 84
Mean 1153
Std Dev 0
600
400
200
0
−200
−400

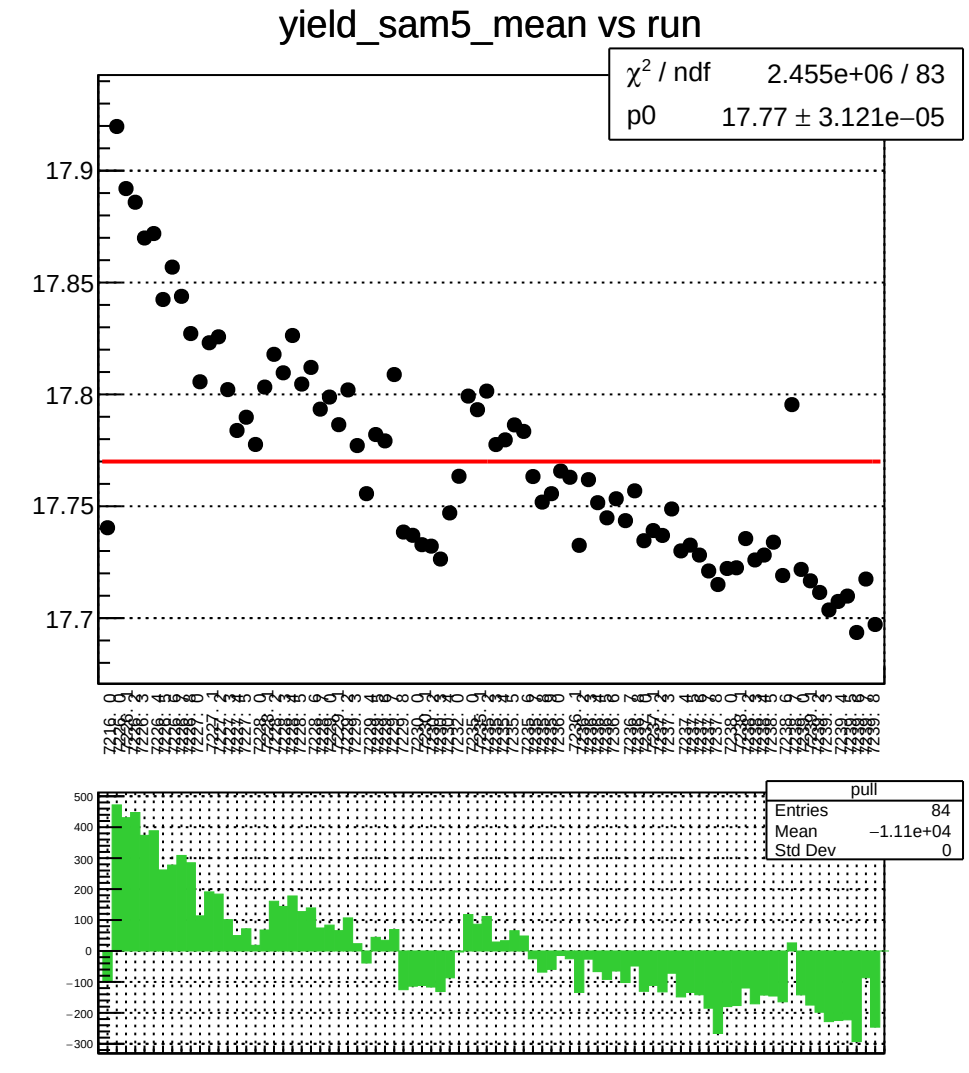

pull1D
Entries 84
Mean 0.2615
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

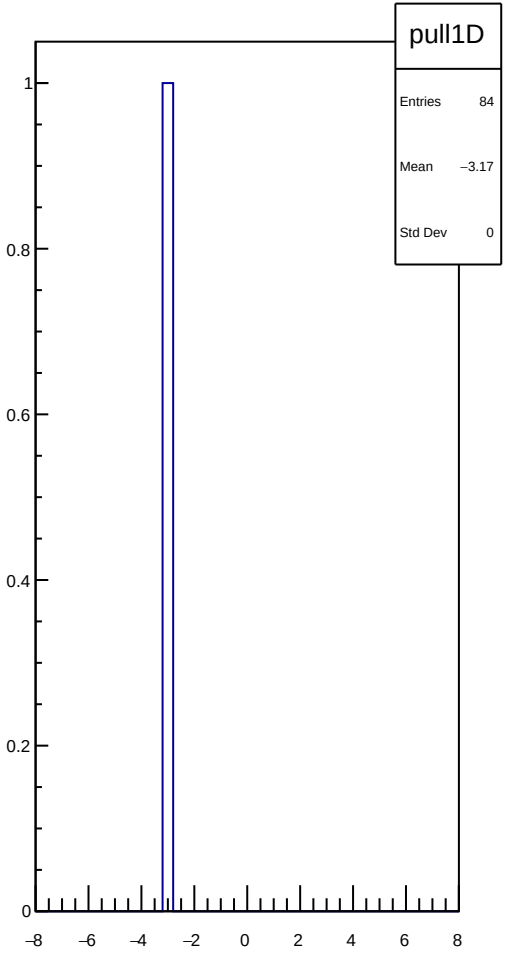

yield_sam3_rms vs run
χ² / ndf 4.113e+05 / 83
p0 0.04569 ± 4.145e−05
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

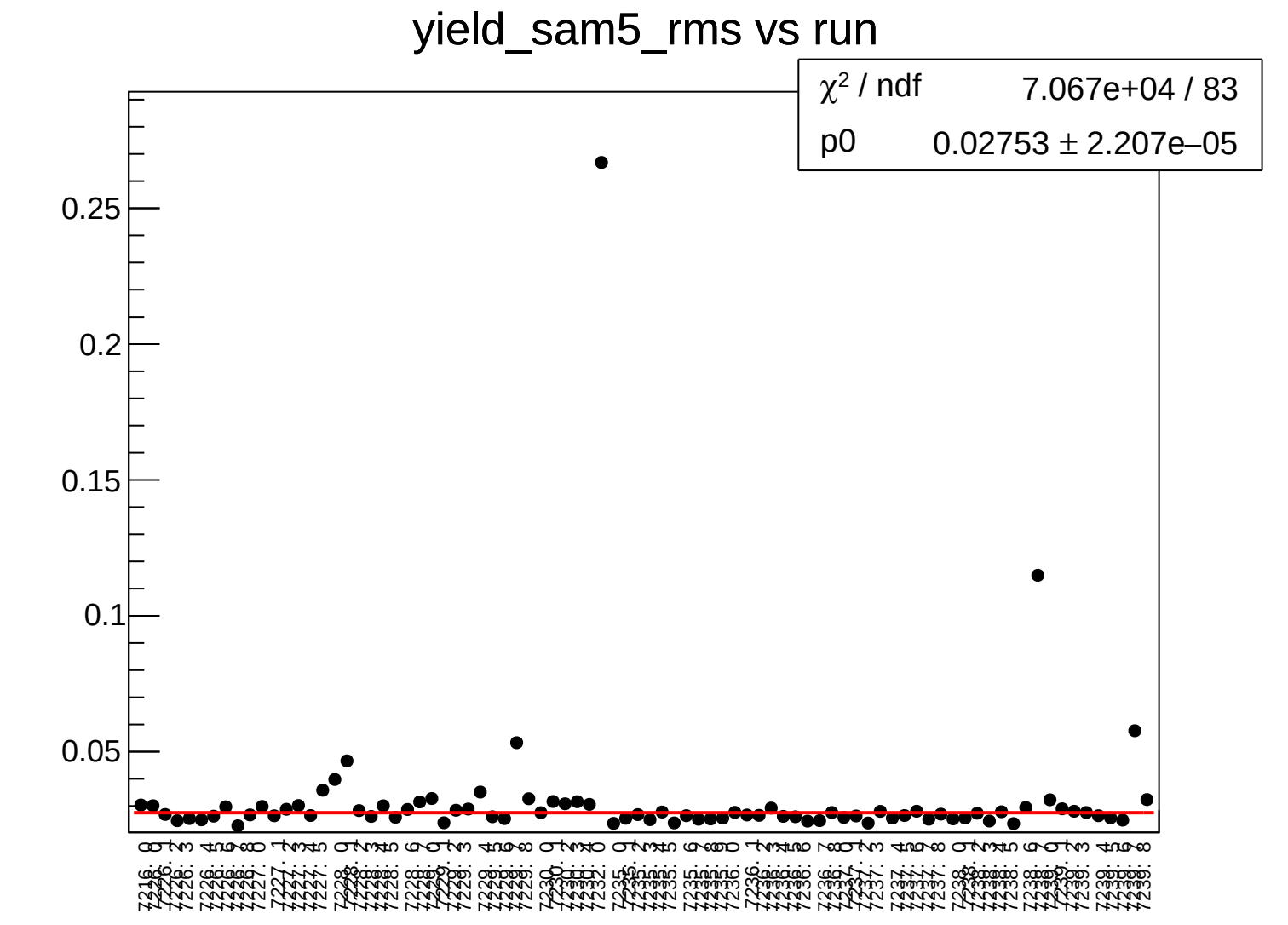

yield_sam4_mean vs run
χ² / ndf 7.023e+05 / 83
p0 16.42 ± 6.757e−05
16.65
16.6
16.55
16.5
16.45
16.4
16.35
16.3
16.25
16.2
pull
Entries 84
Mean 194.6
Std Dev 0
300
200
100
0
−100
−200

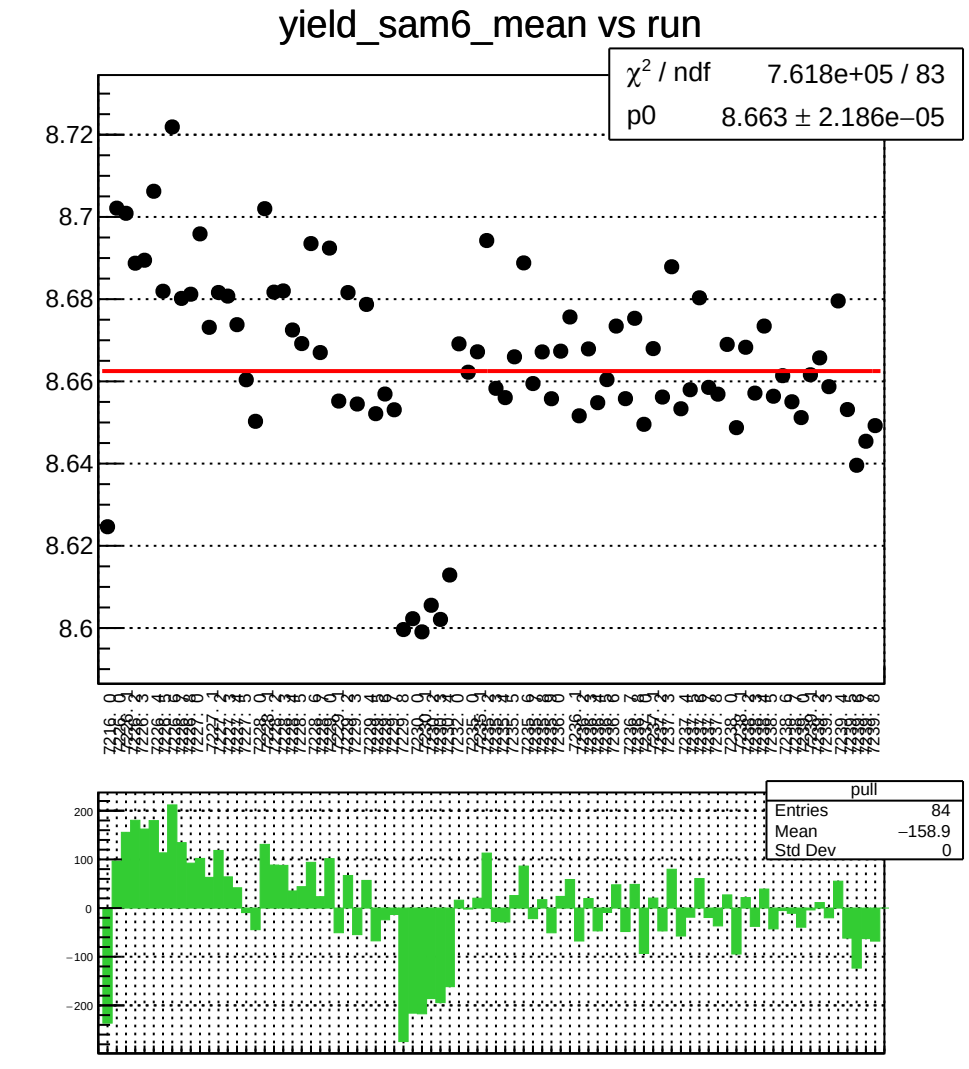

pull1D
Entries 84
Mean −1.814
Std Dev 2.598
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

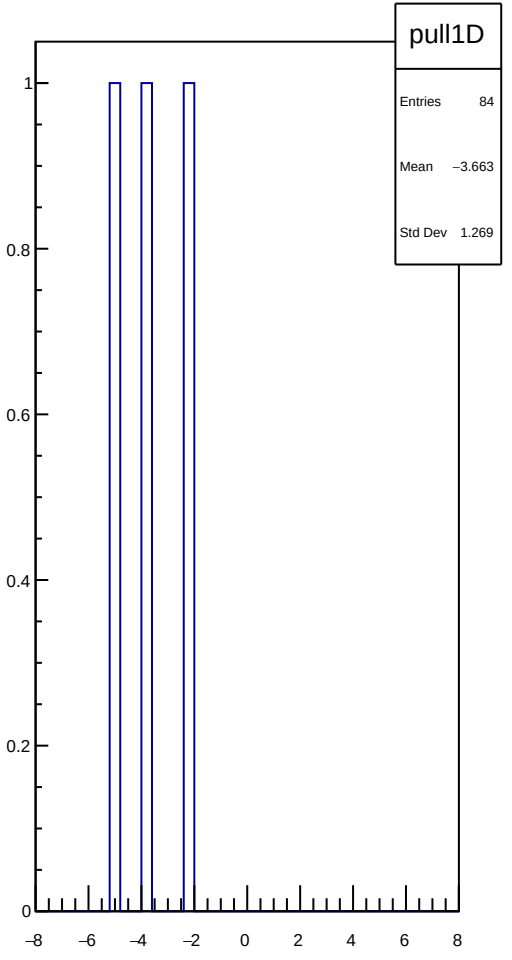

yield_sam4_rms vs run
χ² / ndf 2.837e+05 / 83
p0 0.05537 ± 4.778e–05
0.6
0.5
0.4
0.3
0.2
0.1

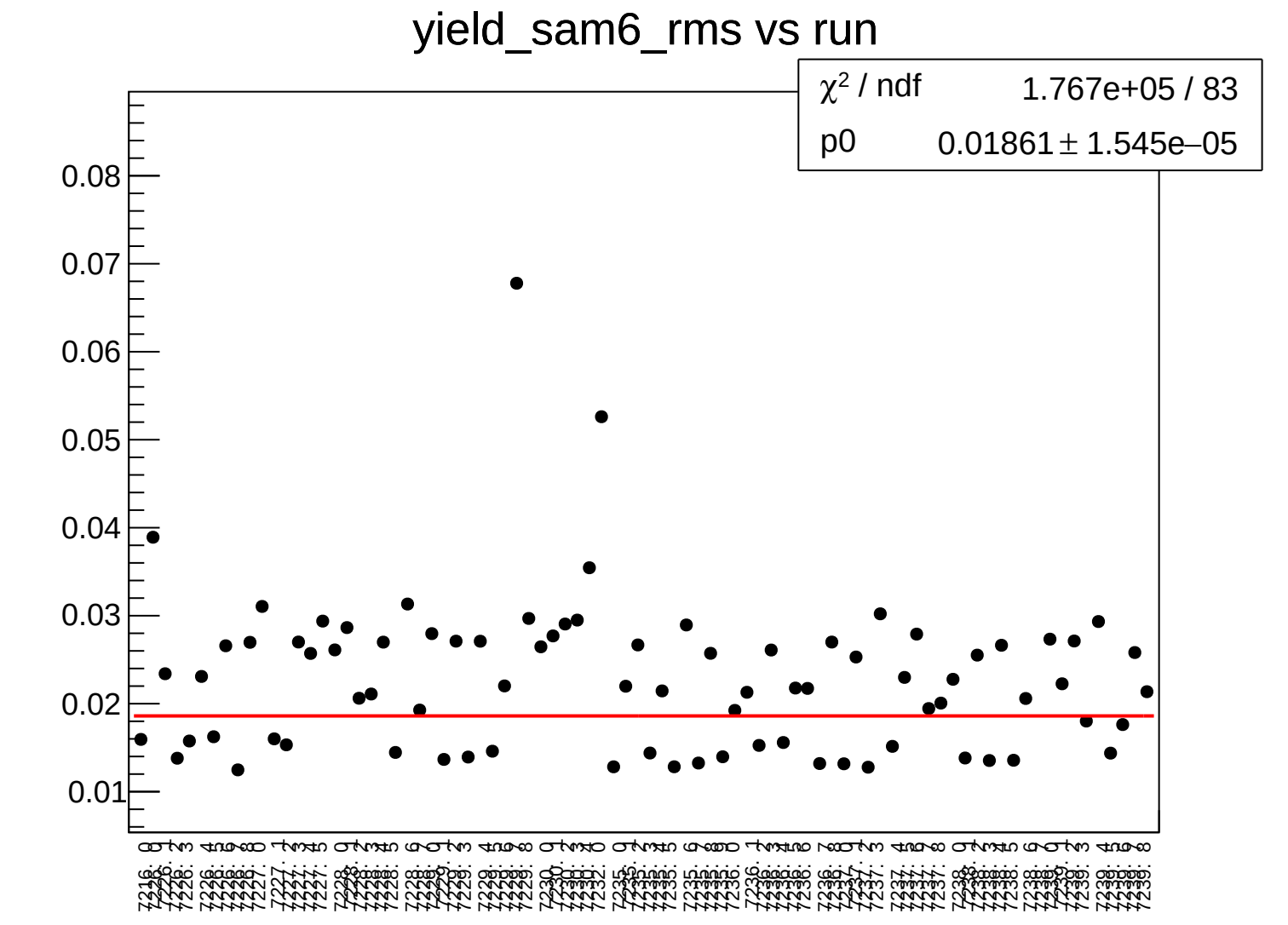

yield_sam5_mean vs run
χ² / ndf 2.455e+06 / 83
p0 17.77 ± 3.121e−05
17.9
17.85
17.8
17.75
17.7
pull
Entries 84
Mean −1.11e+04
Std Dev 0
500
400
300
200
100
0
−100
−200
−300

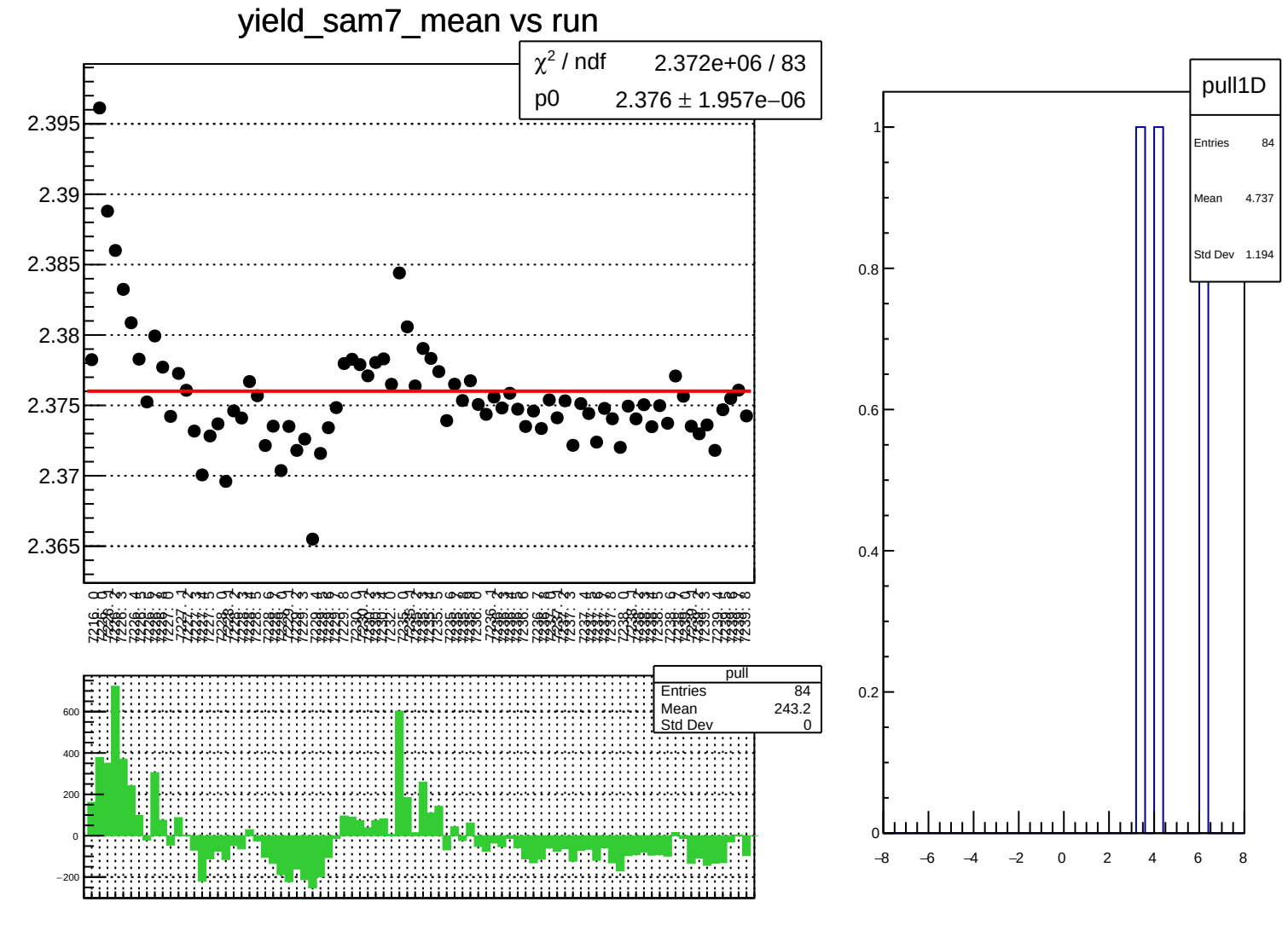

pull1D
Entries 84
Mean −3.17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

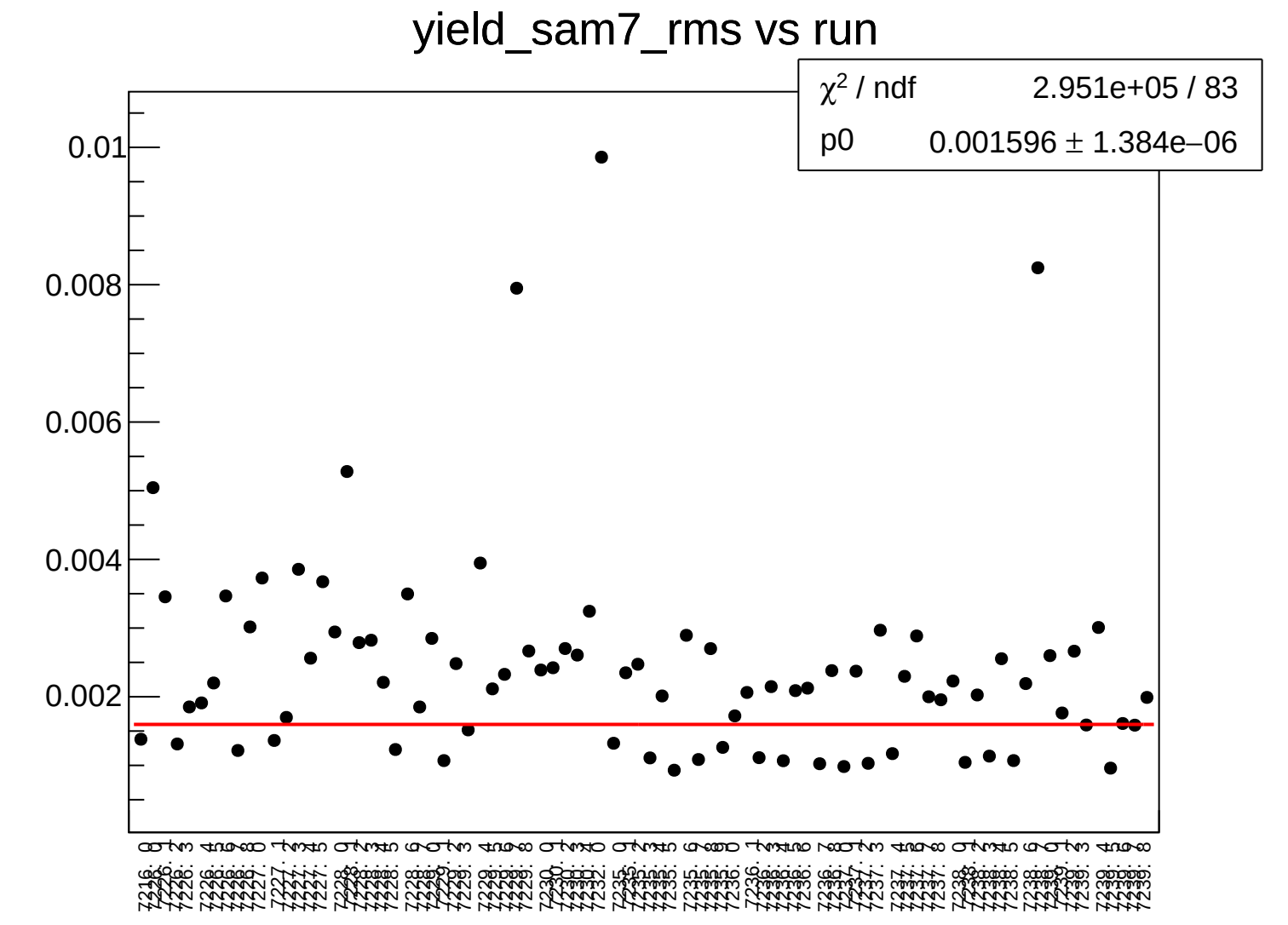

yield_sam5_rms vs run
χ² / ndf 7.067e+04 / 83
p0 0.02753 ± 2.207e–05
0.25
0.2
0.15
0.1
0.05

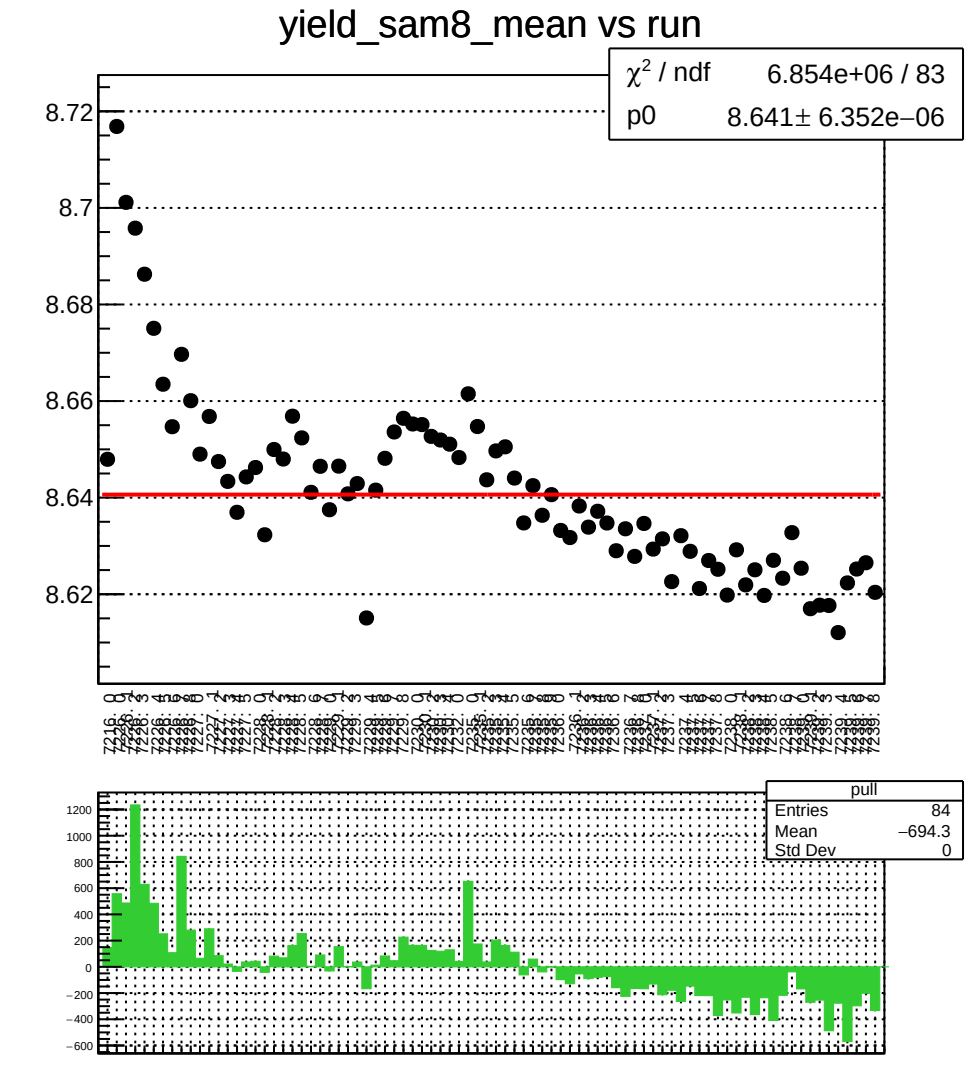

yield_sam6_mean vs run
χ² / ndf 7.618e+05 / 83
p0 8.663 ± 2.186e−05
8.72
8.7
8.68
8.66
8.64
8.62
8.6
pull
Entries 84
Mean −158.9
Std Dev 0
200
100
0
−100
−200

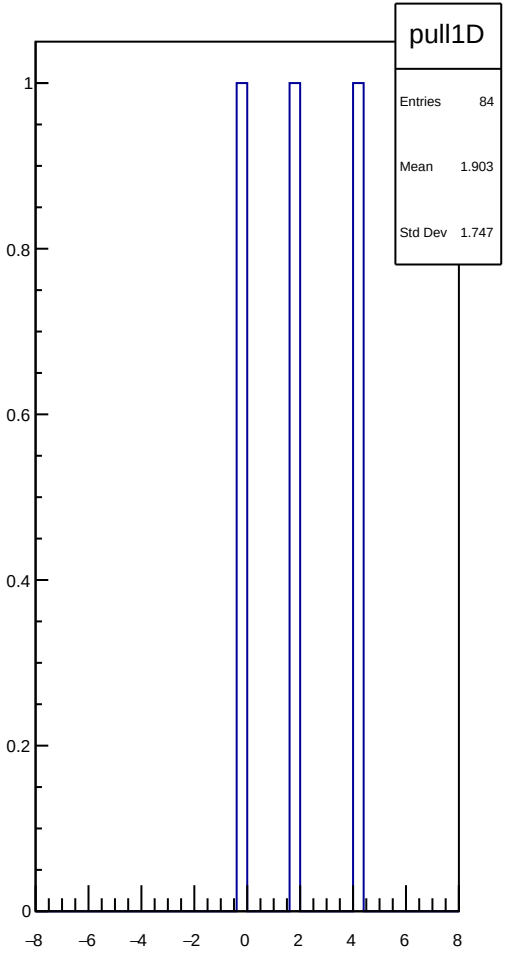

pull1D
Entries 84
Mean −3.663
Std Dev 1.269
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

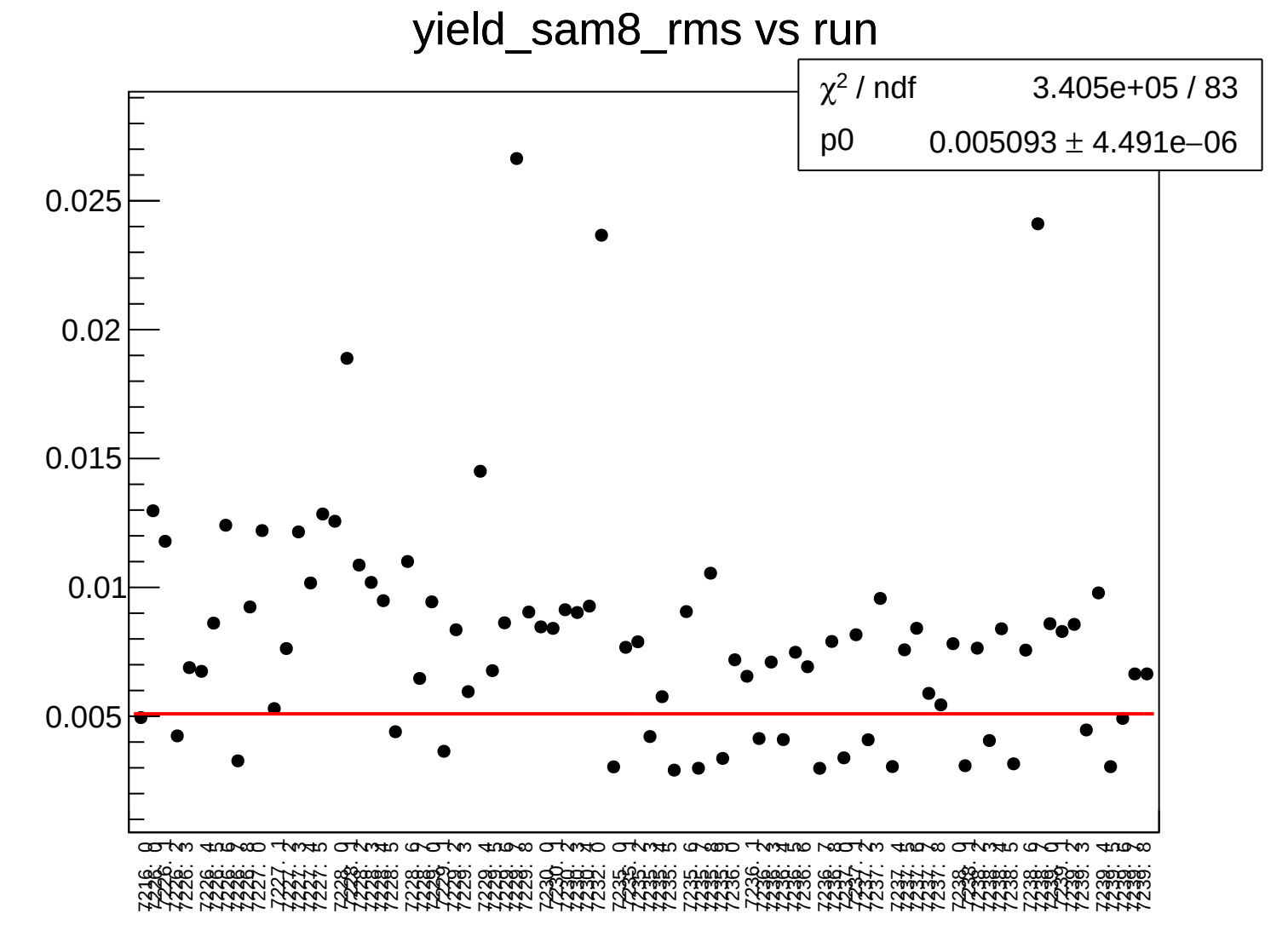

yield_sam6_rms vs run
χ² / ndf 1.767e+05 / 83
p0 0.01861 ± 1.545e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

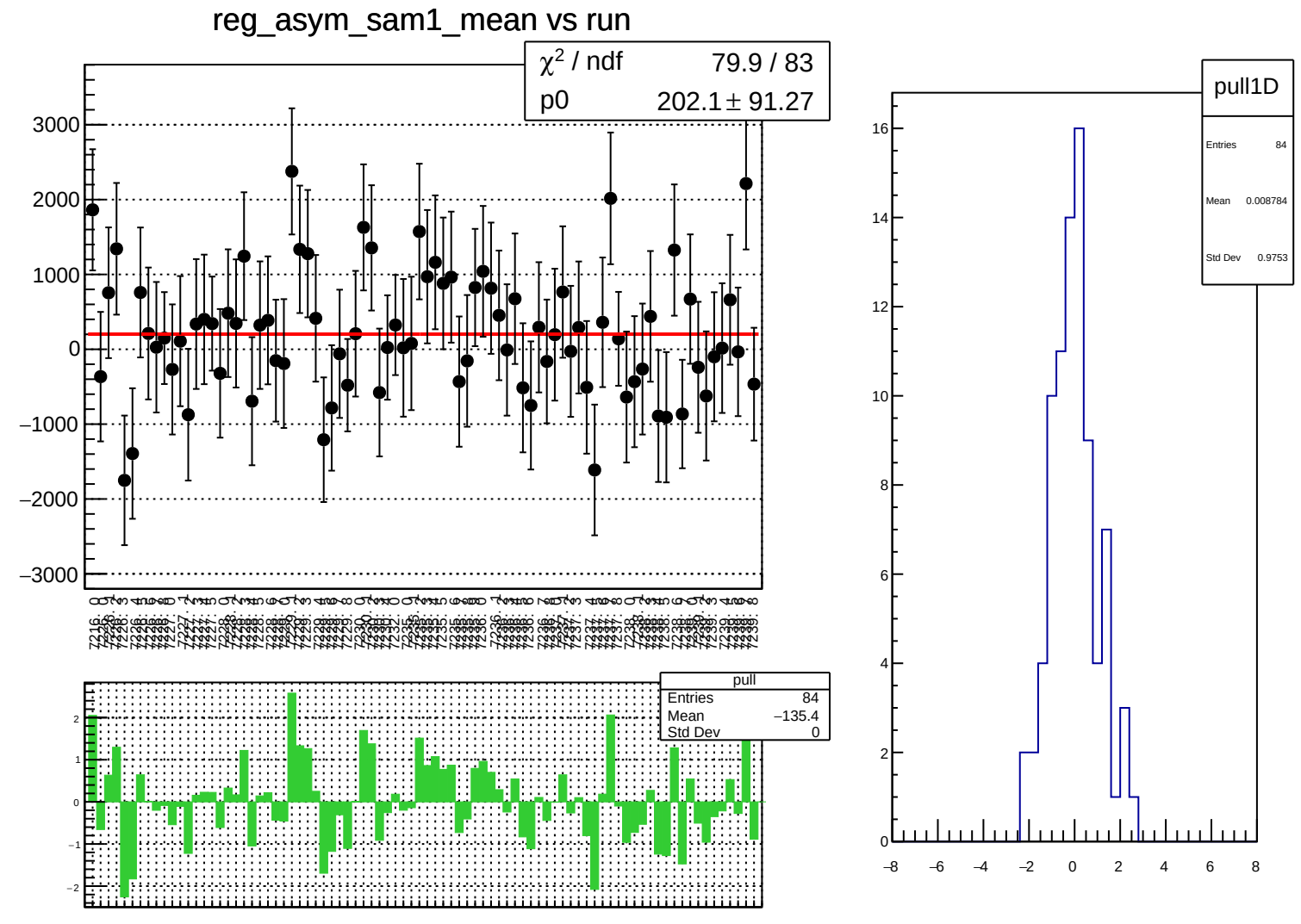

yield_sam7_mean vs run
χ² / ndf 2.372e+06 / 83
p0 2.376 ± 1.957e−06
2.395
2.39
2.385
2.38
2.375
2.37
2.365
pull
Entries 84
Mean 243.2
Std Dev 0
600
400
200
0
−200
pull1D
Entries 84
Mean 4.737
Std Dev 1.194
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

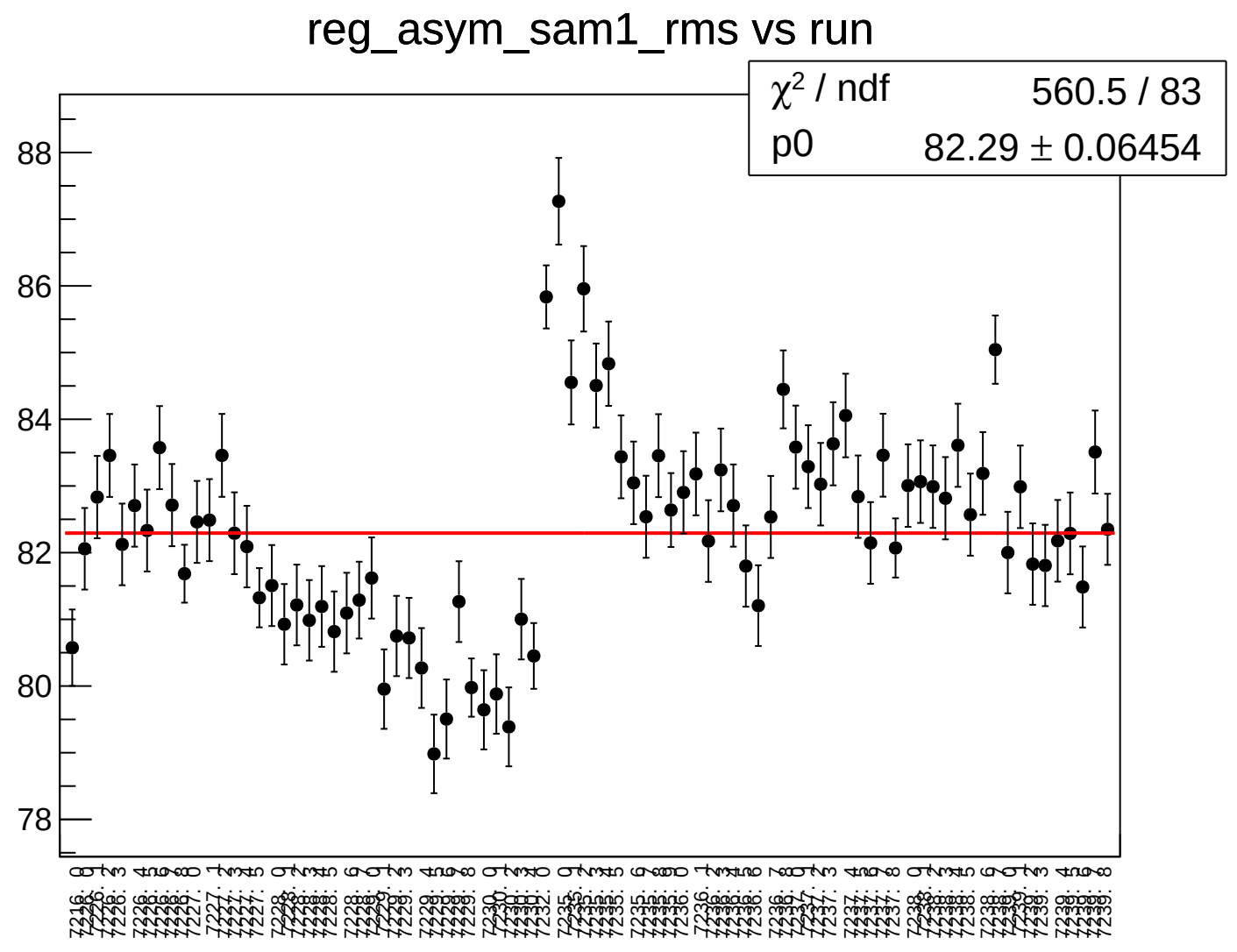

yield_sam7_rms vs run
χ² / ndf 2.951e+05 / 83
p0 0.001596 ± 1.384e−06
0.01
0.008
0.006
0.004
0.002

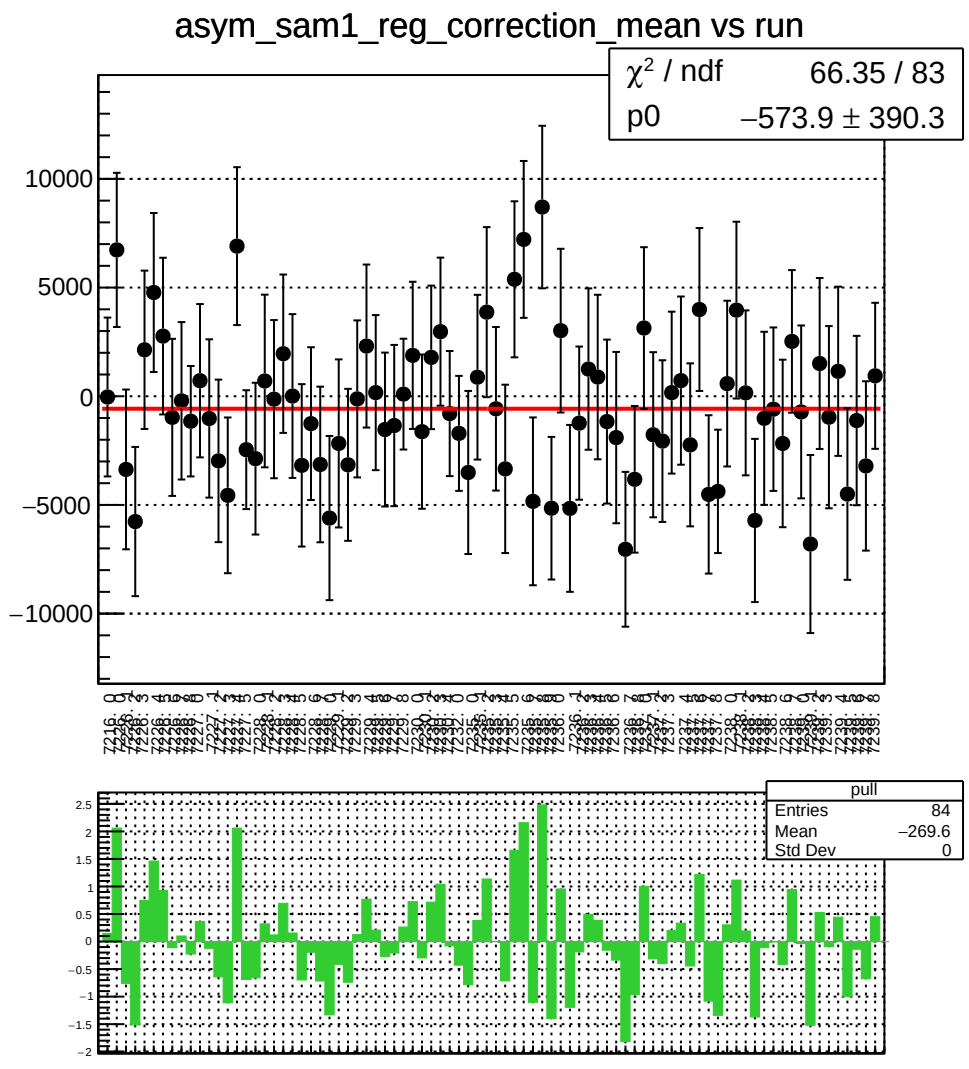

yield_sam8_mean vs run
χ² / ndf 6.854e+06 / 83
p0 8.641± 6.352e−06
8.72
8.7
8.68
8.66
8.64
8.62
pull
Entries 84
Mean −694.3
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400
−600

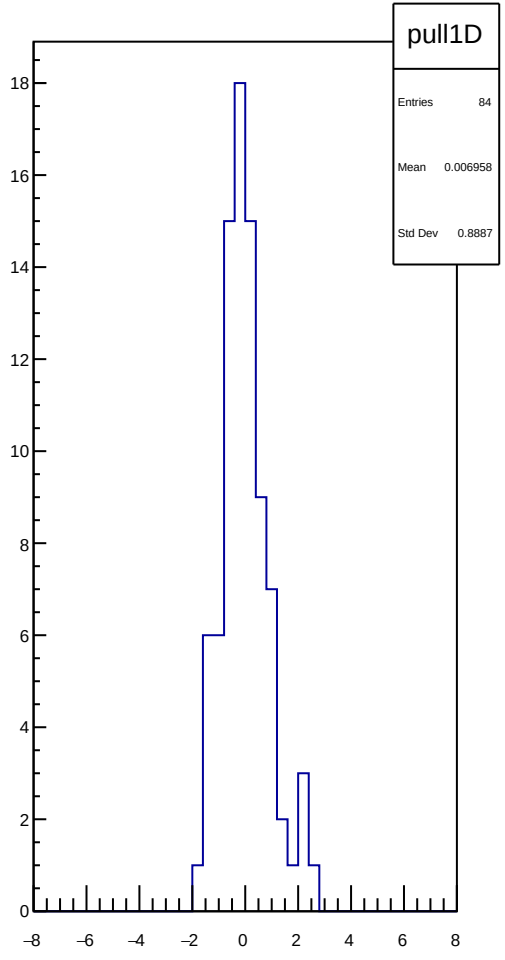

pull1D
Entries 84
Mean 1.903
Std Dev 1.747
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

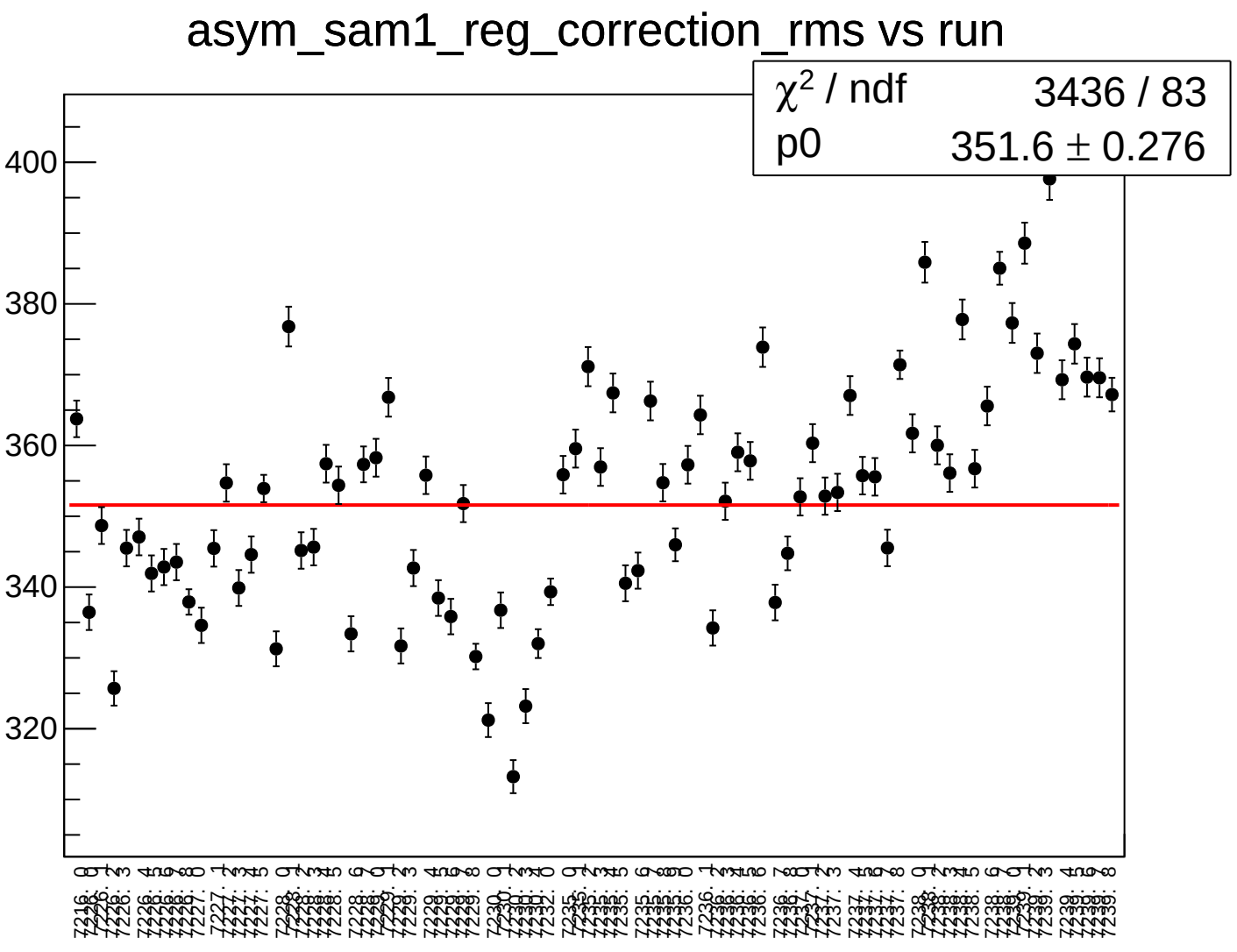

yield_sam8_rms vs run
χ² / ndf 3.405e+05 / 83
p0 0.005093 ± 4.491e−06
0.025
0.02
0.015
0.01
0.005

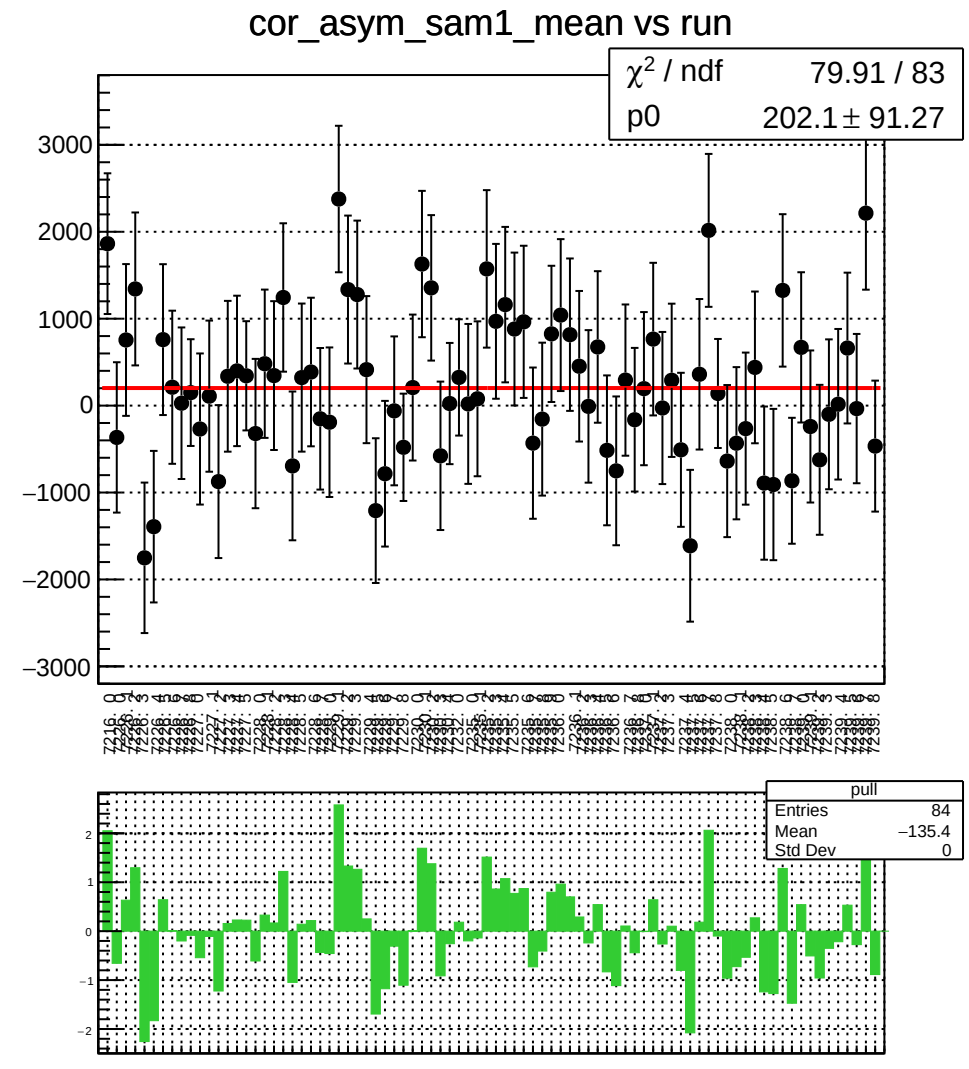

reg_asym_sam1_mean vs run
χ² / ndf 79.9 / 83
p0 202.1 ± 91.27
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean −135.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.008784
Std Dev 0.9753
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

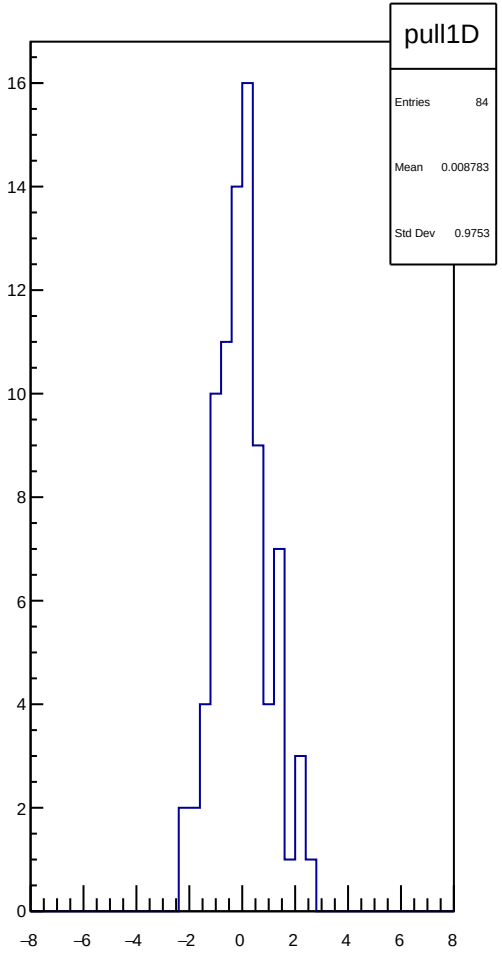

reg_asym_sam1_rms vs run
χ² / ndf 560.5 / 83
p0 82.29 ± 0.06454
88
86
84
82
80
78

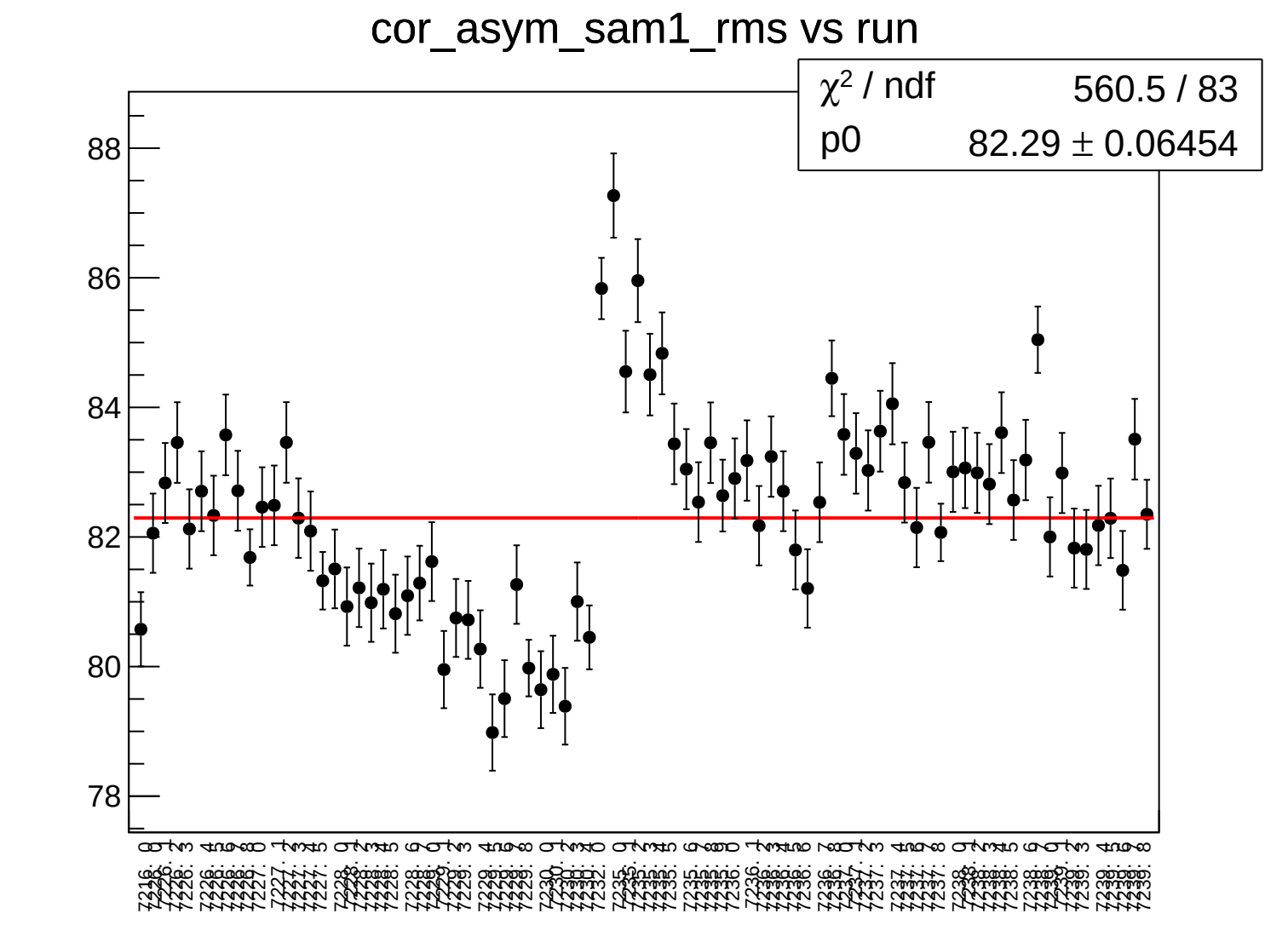

asym_sam1_reg_correction_mean vs run
χ² / ndf 66.35 / 83
p0 −573.9 ± 390.3
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −269.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

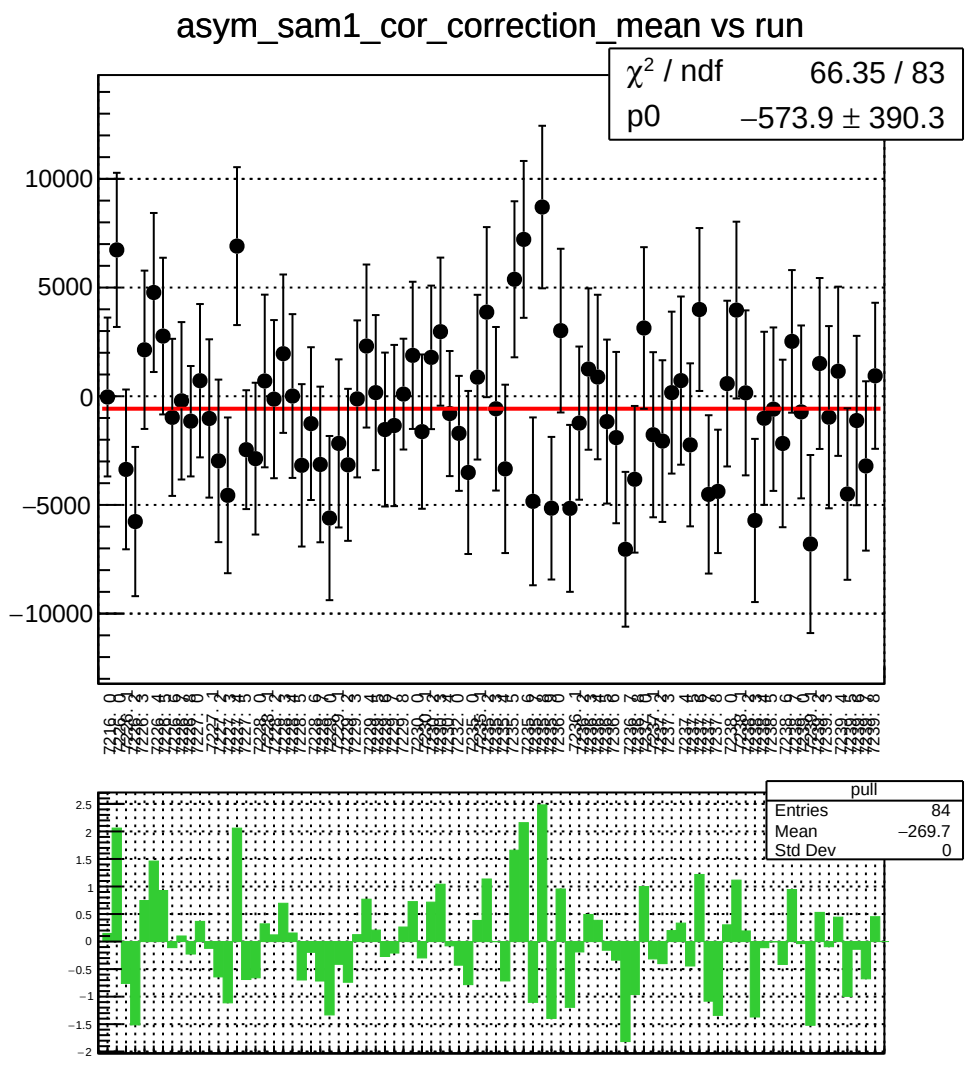

pull1D
Entries 84
Mean 0.006958
Std Dev 0.8887
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

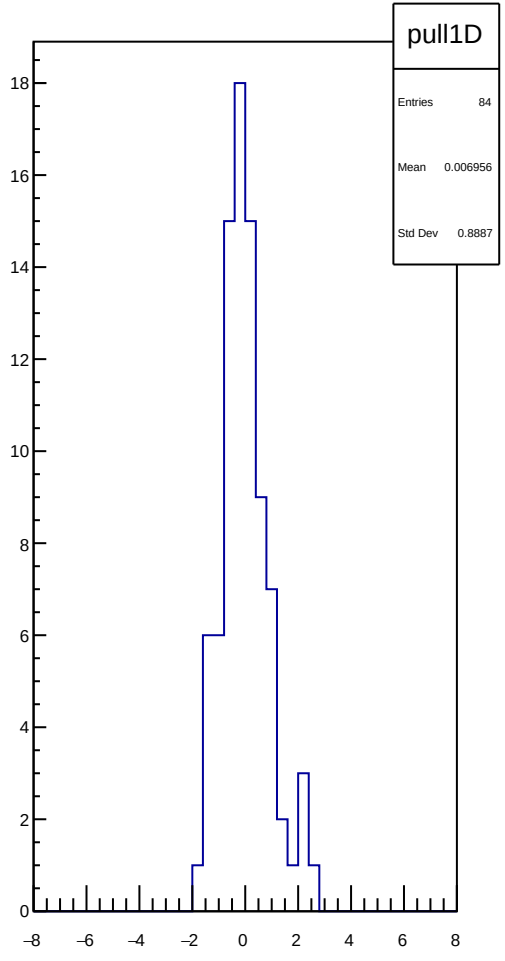

asym_sam1_reg_correction_rms vs run
χ² / ndf 3436 / 83
p0 351.6 ± 0.276
400
380
360
340
320

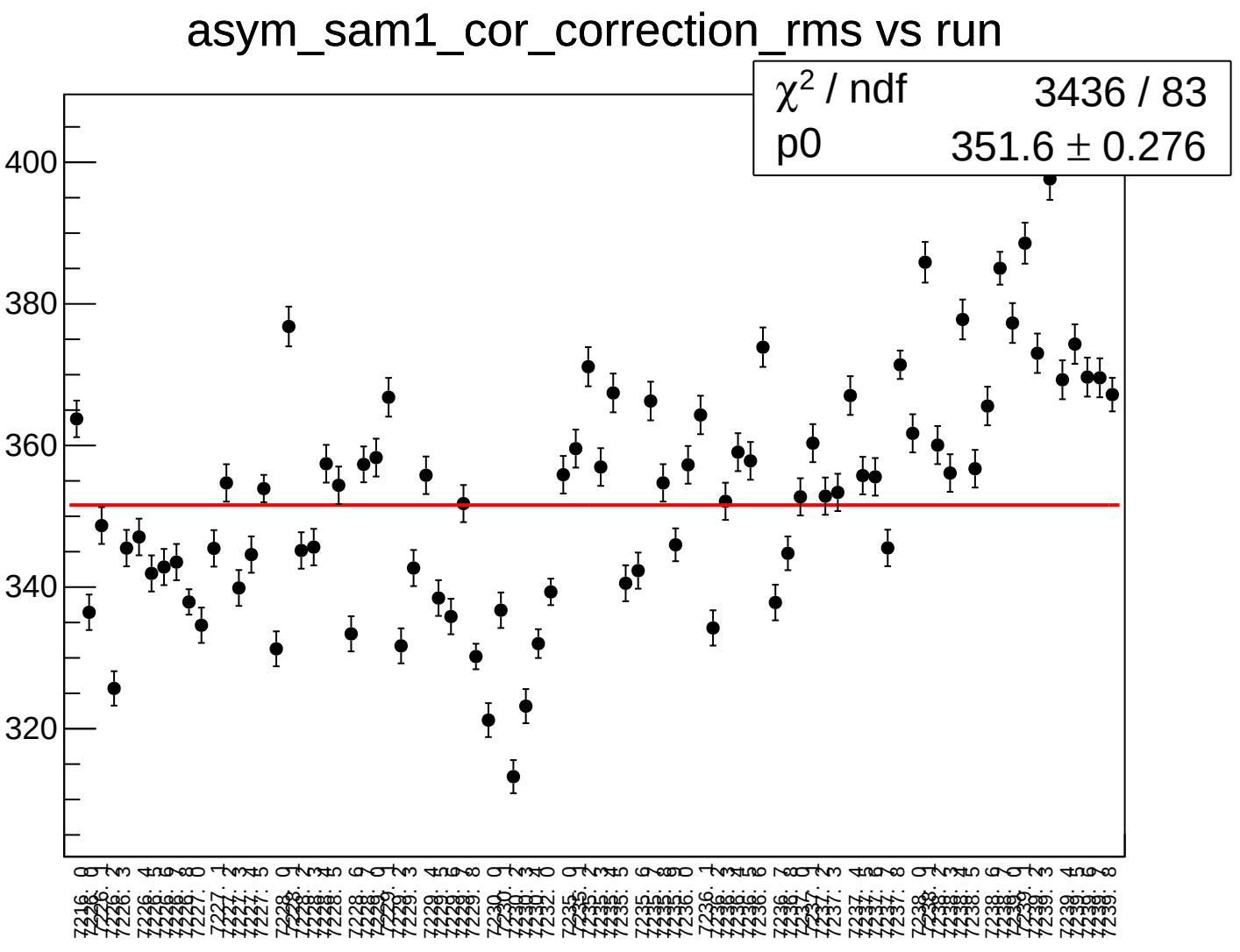

cor_asym_sam1_mean vs run
χ² / ndf 79.91 / 83
p0 202.1 ± 91.27
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean −135.4
Std Dev 0
2
1
0
−1
−2

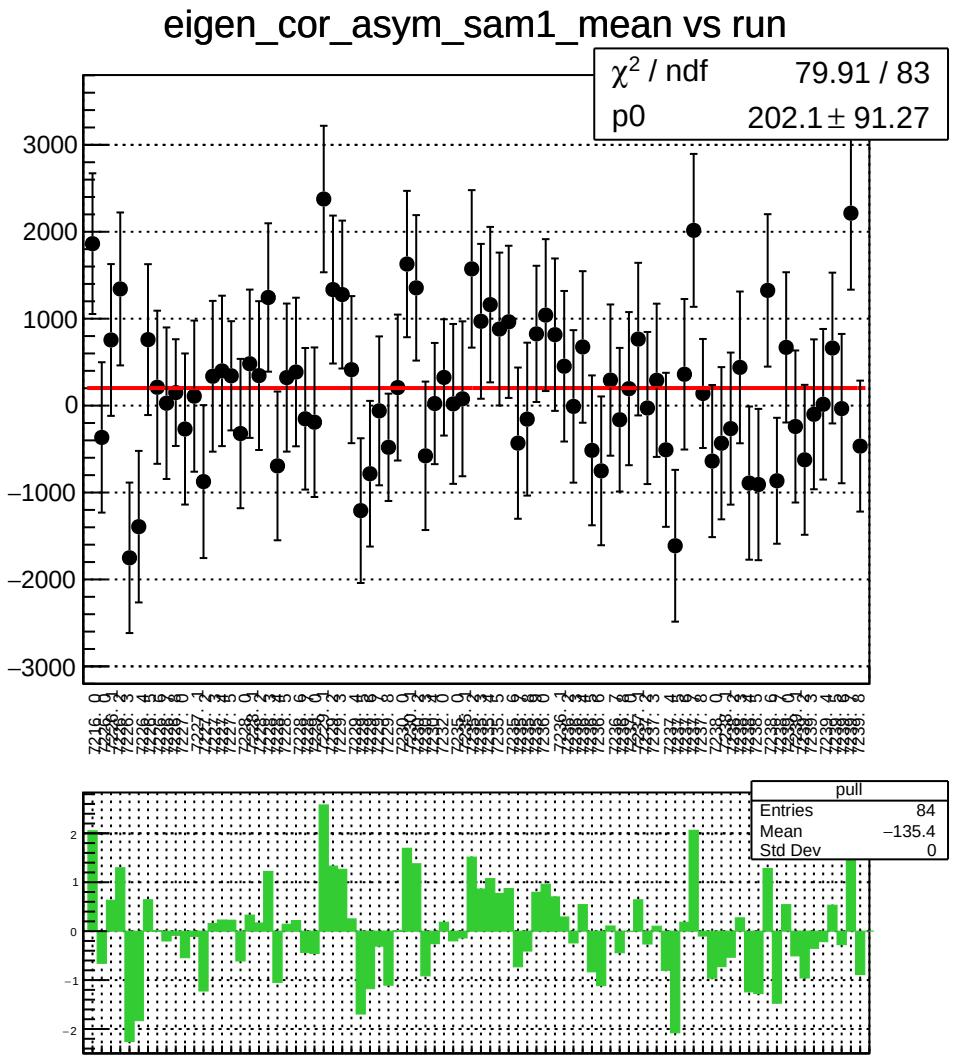

pull1D
Entries 84
Mean 0.008783
Std Dev 0.9753
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

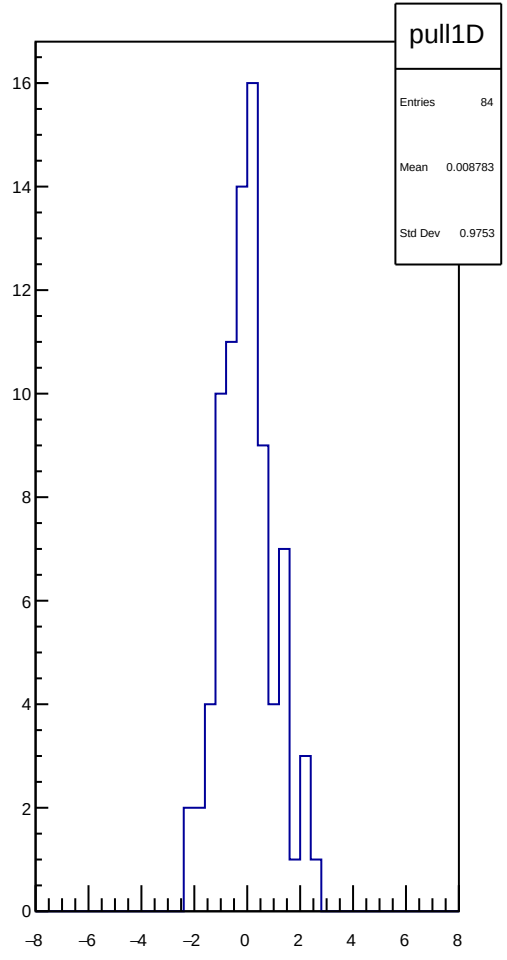

cor_asym_sam1_rms vs run
χ² / ndf 560.5 / 83
p0 82.29 ± 0.06454
88
86
84
82
80
78

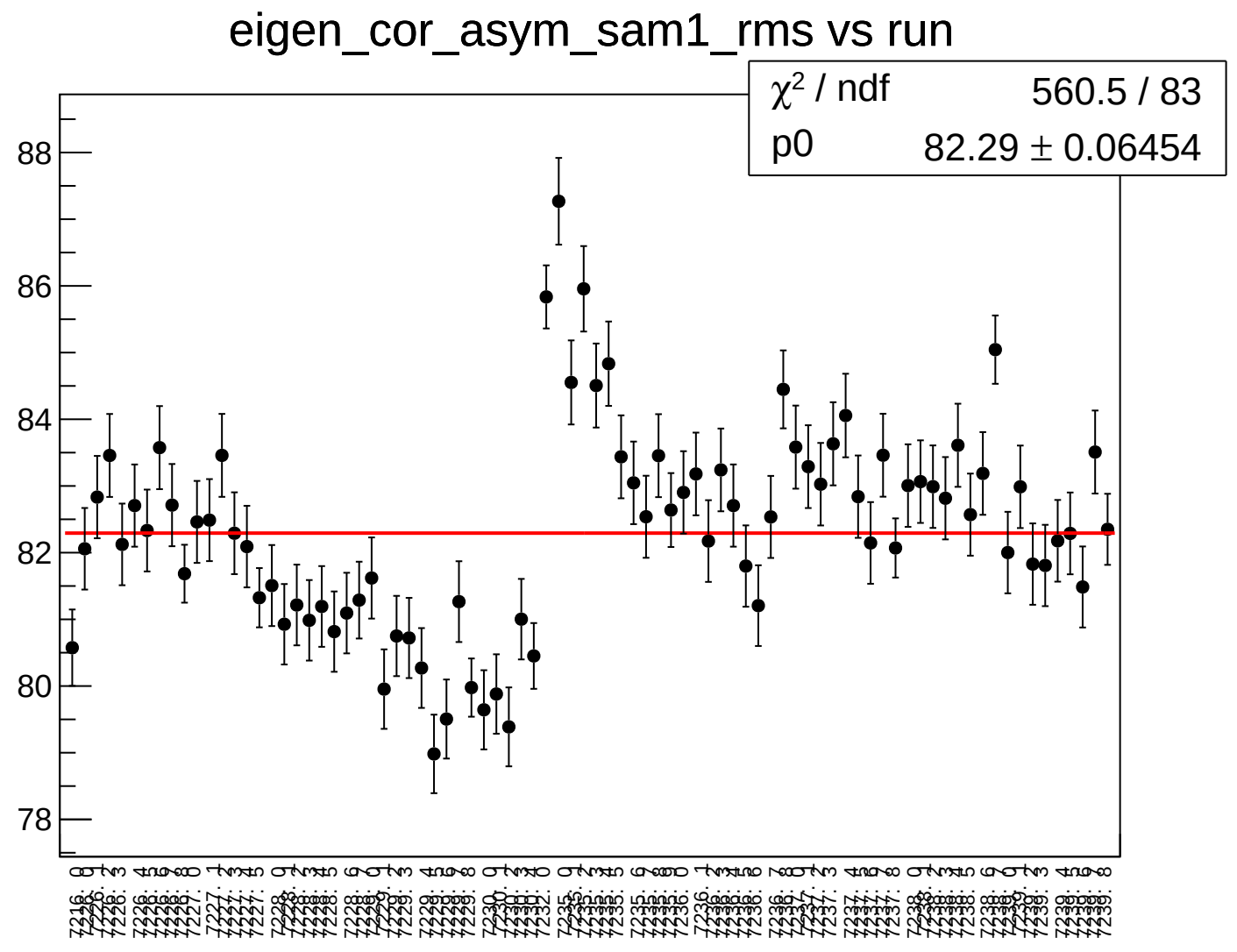

asym_sam1_cor_correction_mean vs run
χ² / ndf 66.35 / 83
p0 −573.9 ± 390.3
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −269.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

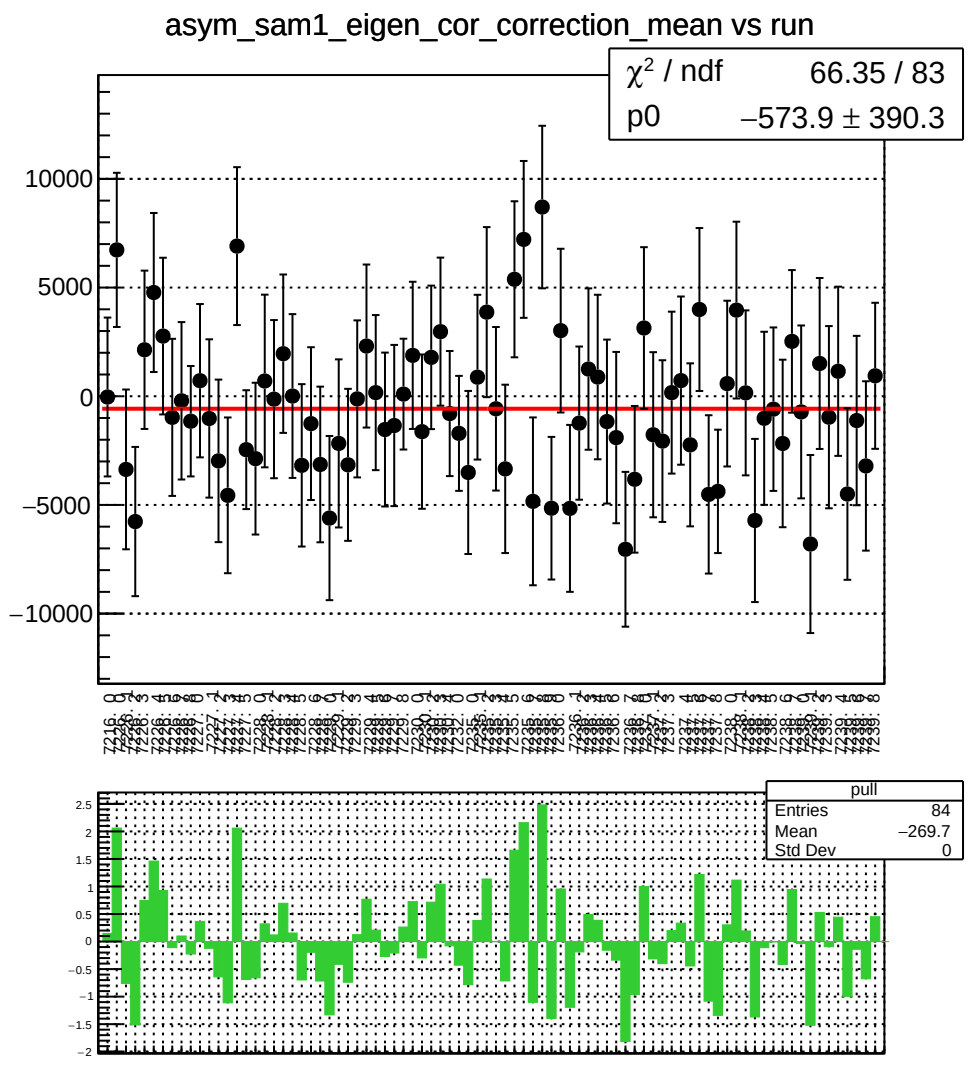

pull1D
Entries 84
Mean 0.006956
Std Dev 0.8887
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

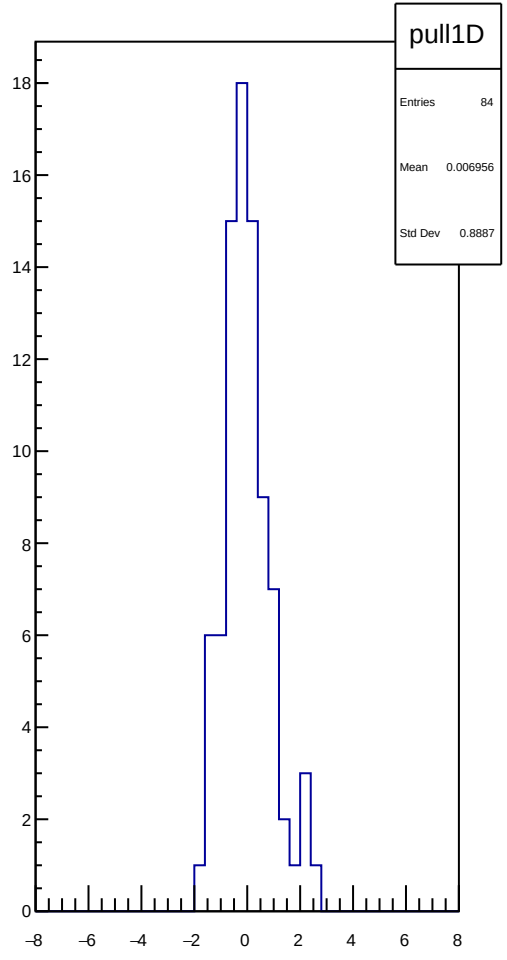

asym_sam1_cor_correction_rms vs run
χ² / ndf 3436 / 83
p0 351.6 ± 0.276
400
380
360
340
320

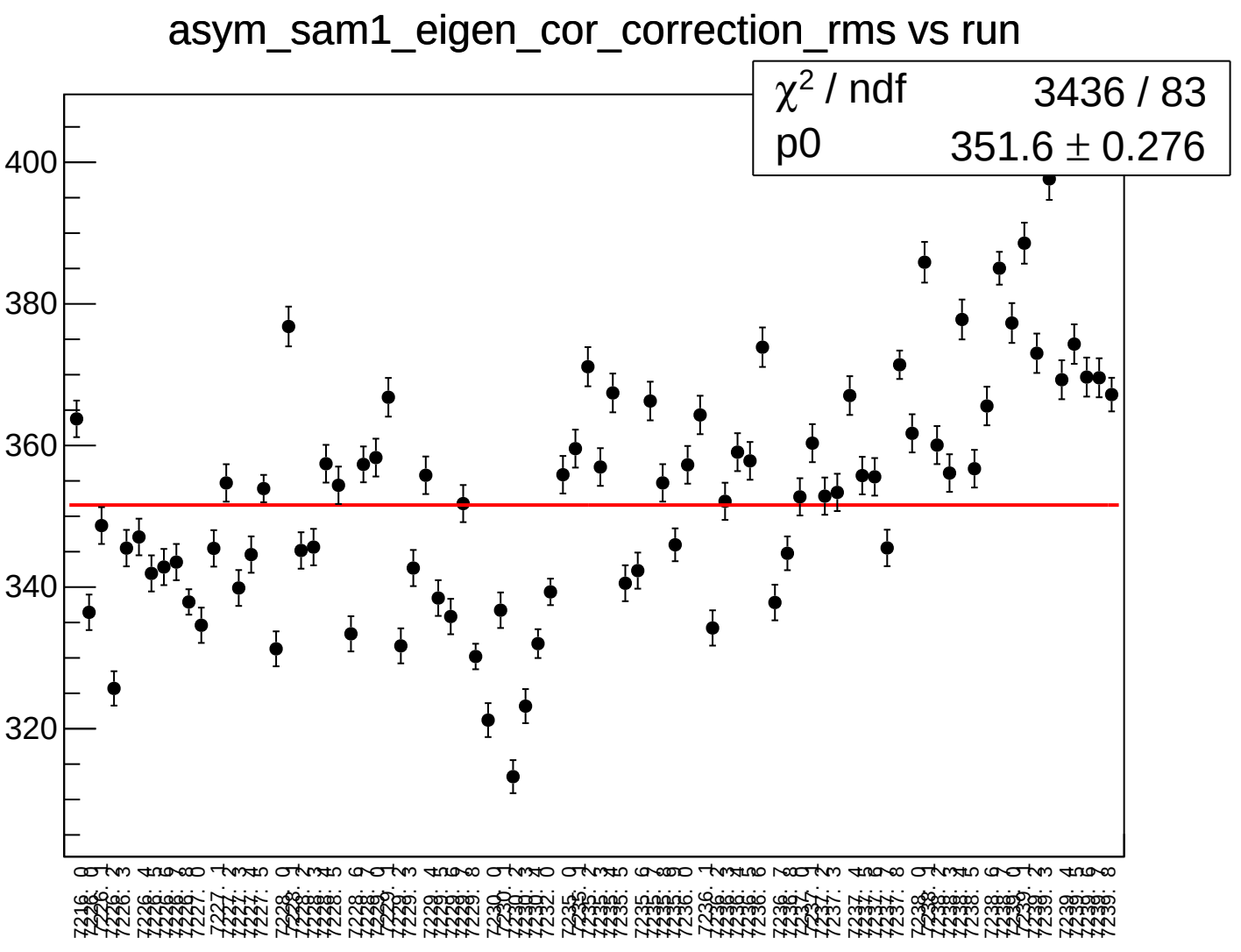

eigen_cor_asym_sam1_mean vs run
χ² / ndf 79.91 / 83
p0 202.1 ± 91.27
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean −135.4
Std Dev 0
2
1
0
−1
−2

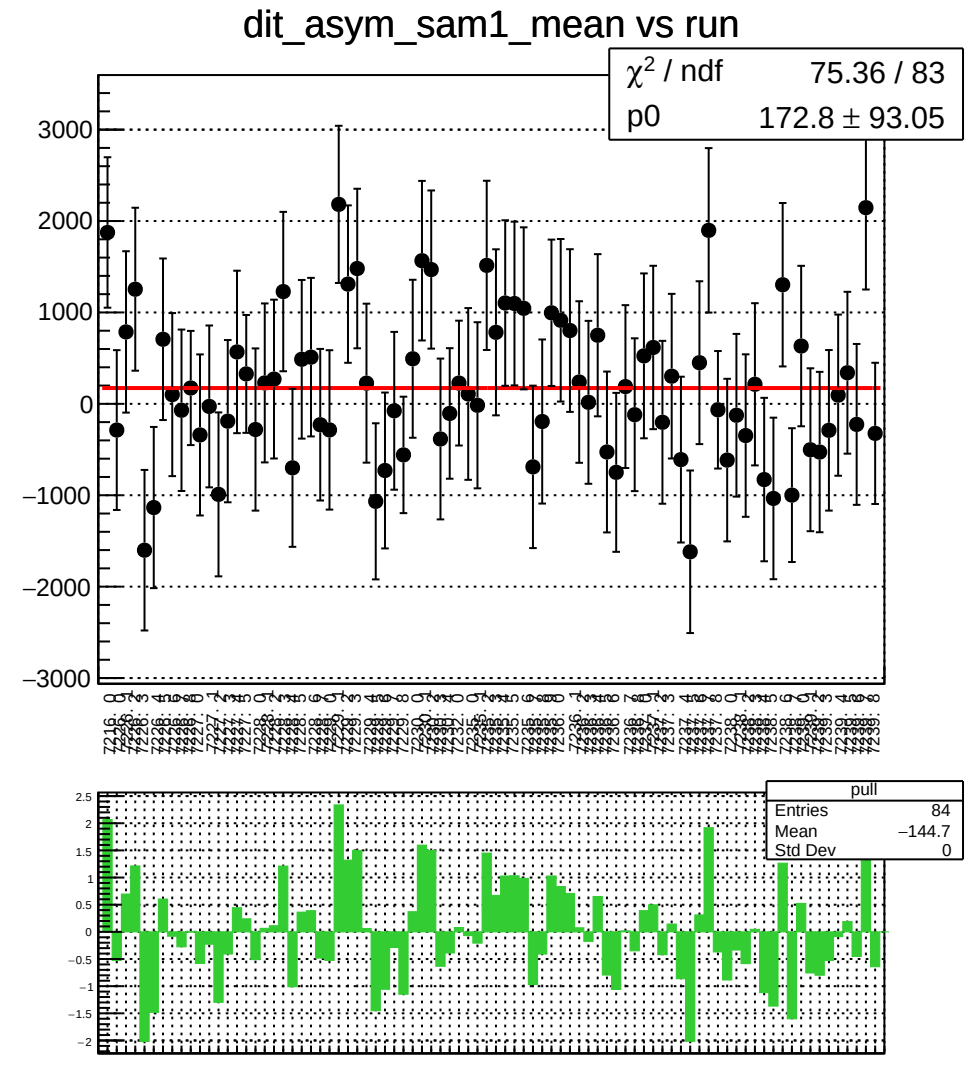

pull1D
Entries 84
Mean 0.008783
Std Dev 0.9753
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

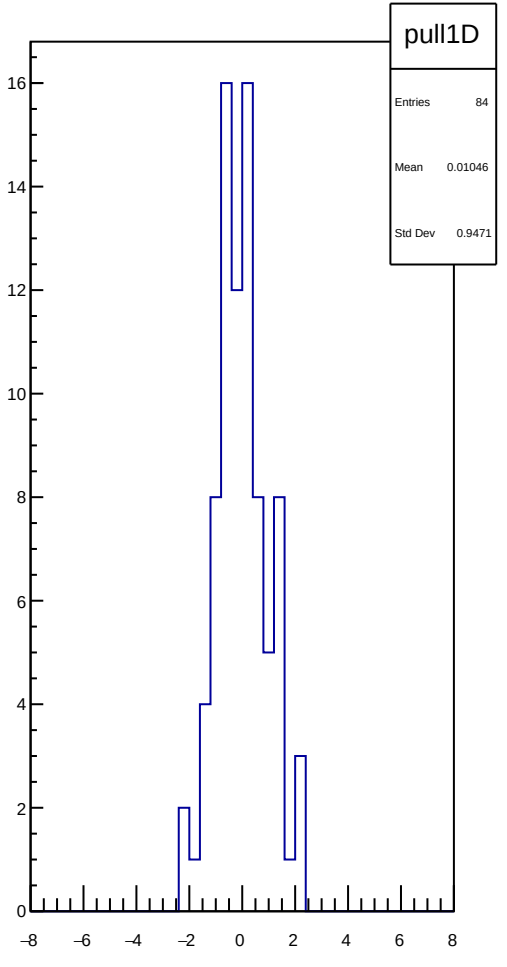

eigen_cor_asym_sam1_rms vs run
χ² / ndf 560.5 / 83
p0 82.29 ± 0.06454
88
86
84
82
80
78

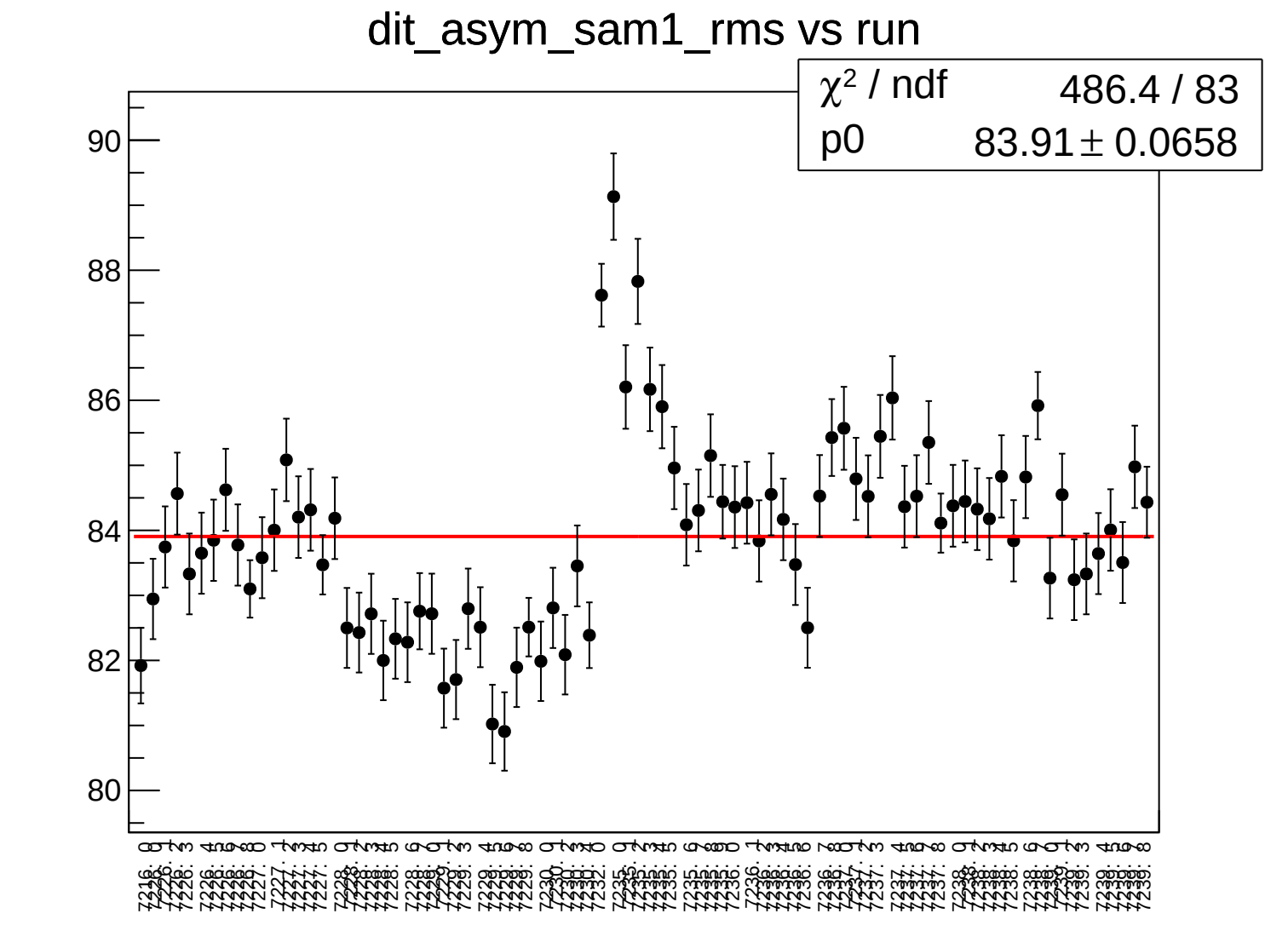

asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 66.35 / 83
p0 −573.9 ± 390.3
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −269.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

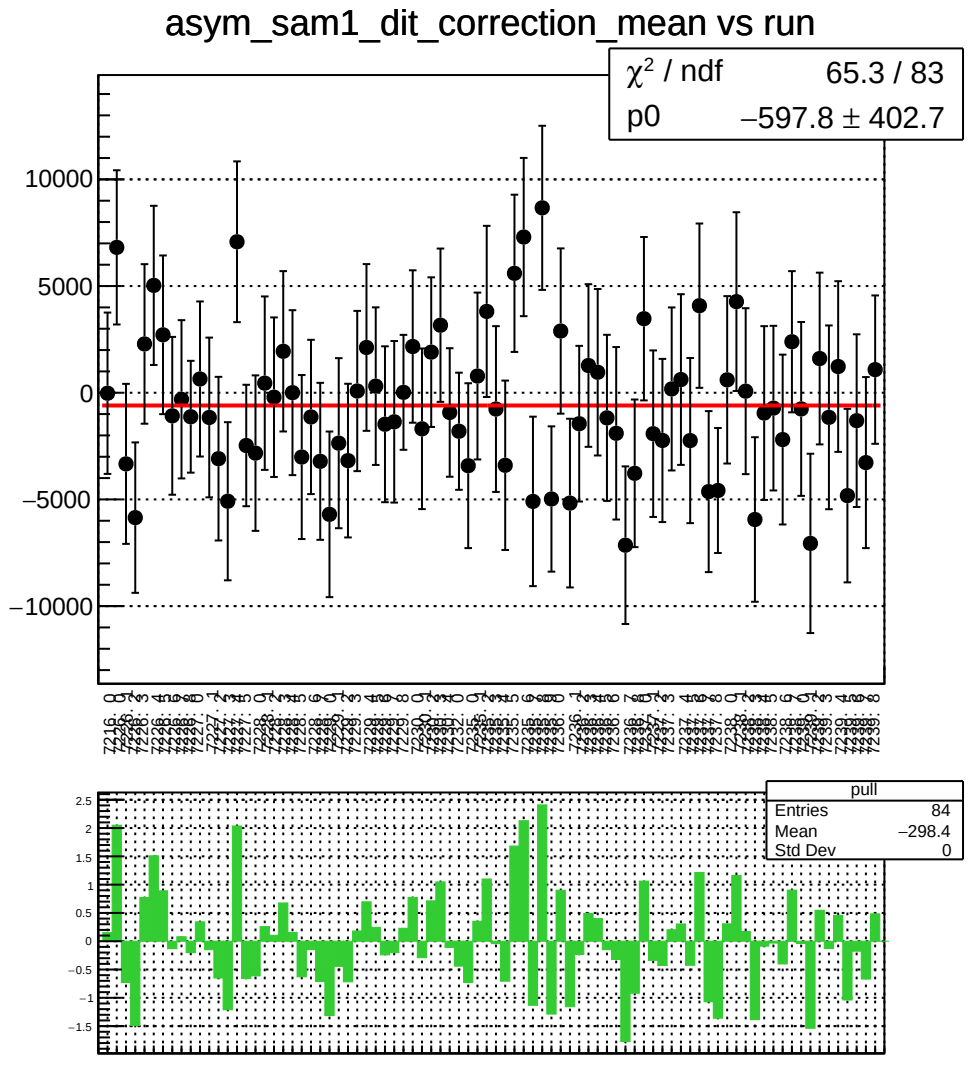

pull1D
Entries 84
Mean 0.006956
Std Dev 0.8887
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

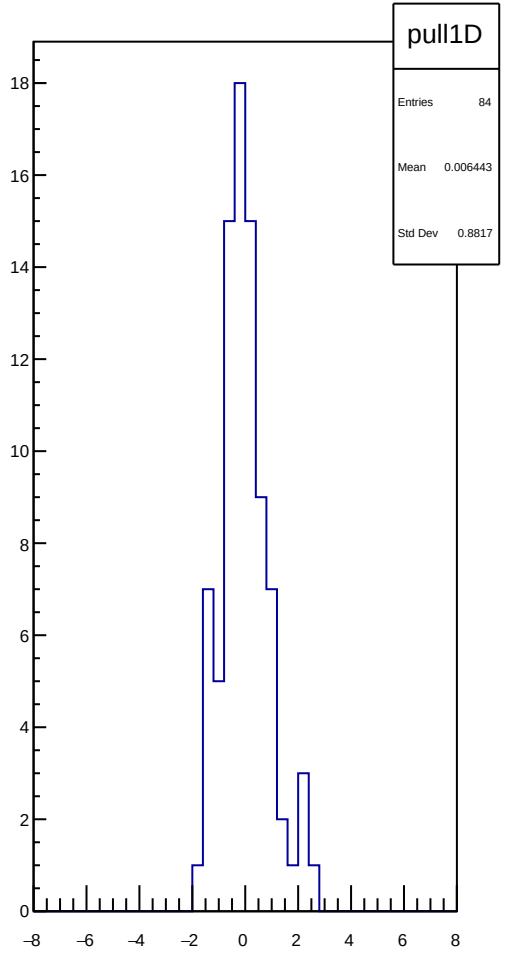

asym_sam1_eigen_cor_correction_rms vs run
χ^2 / ndf 3436 / 83
p0 351.6 ± 0.276
400
380
360
340
320

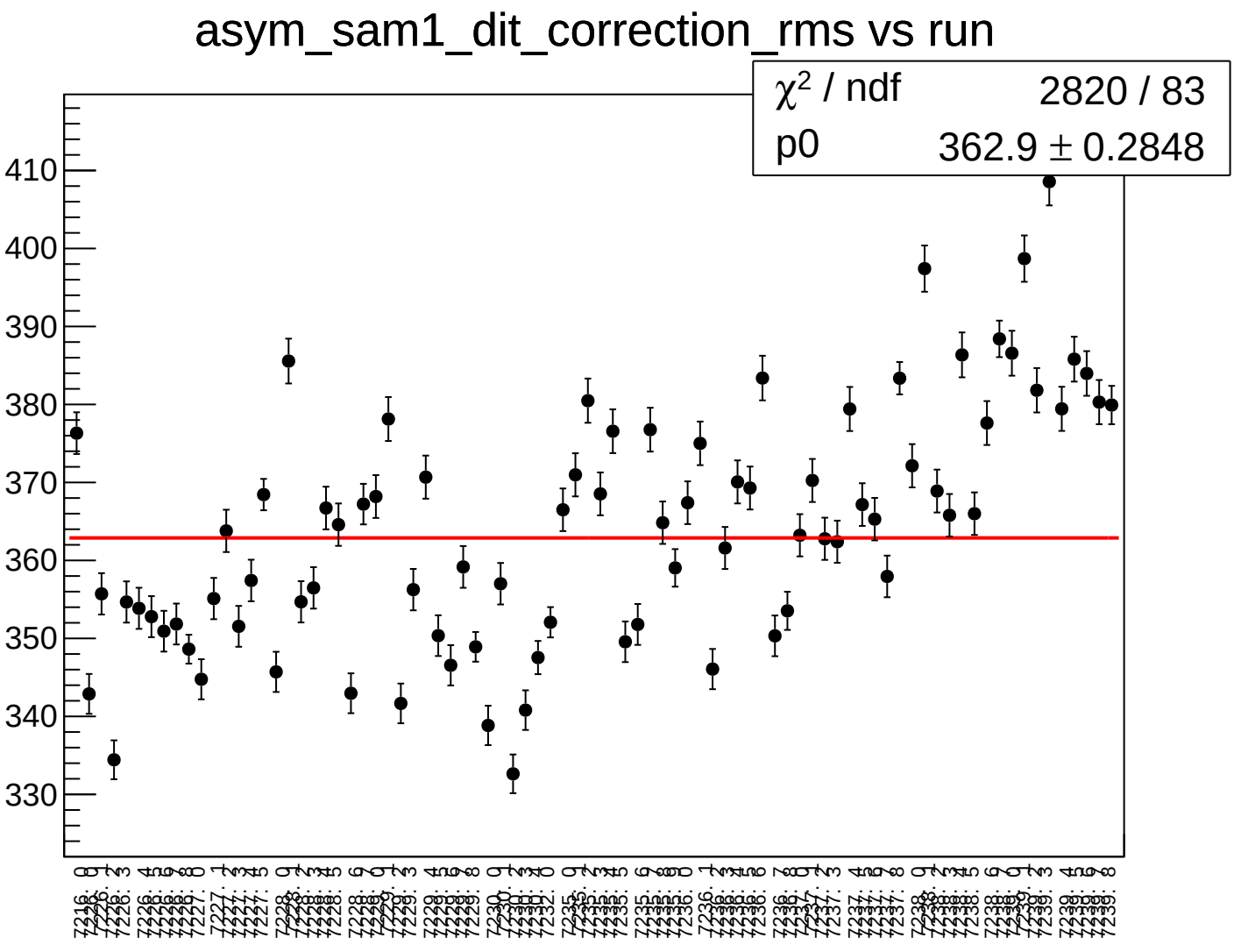

dit_asym_sam1_mean vs run
χ^2 / ndf 75.36 / 83
p0 172.8 ± 93.05
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean −144.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

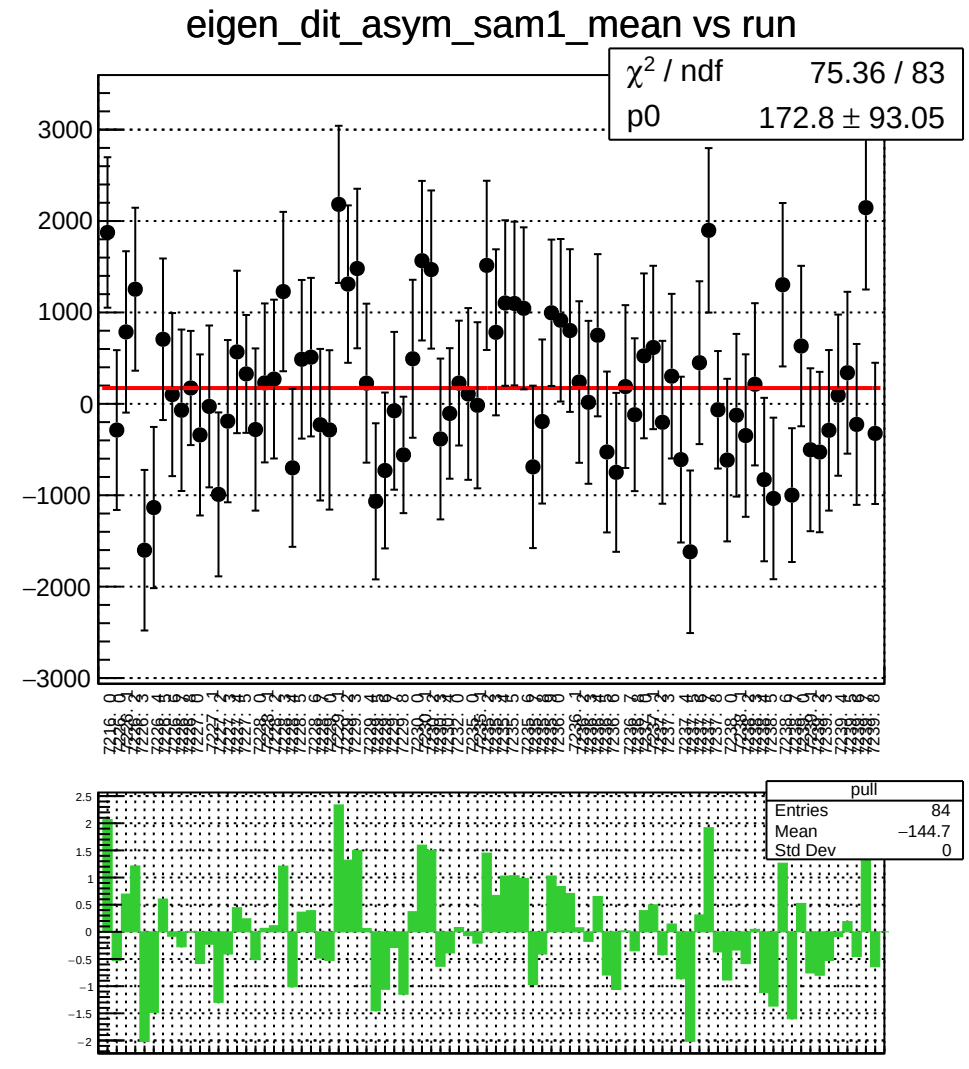

pull1D
Entries 84
Mean 0.01046
Std Dev 0.9471
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

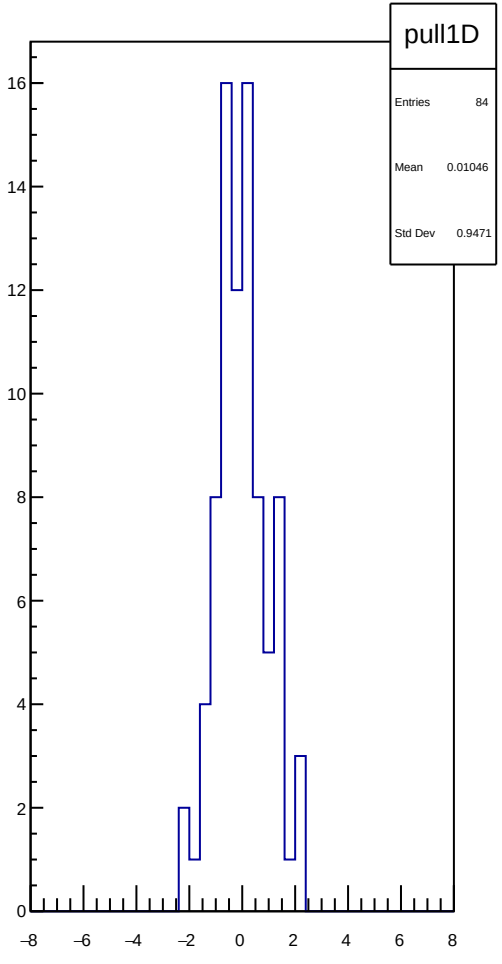

dit_asym_sam1_rms vs run
χ² / ndf 486.4 / 83
p0 83.91 ± 0.0658
90
88
86
84
82
80

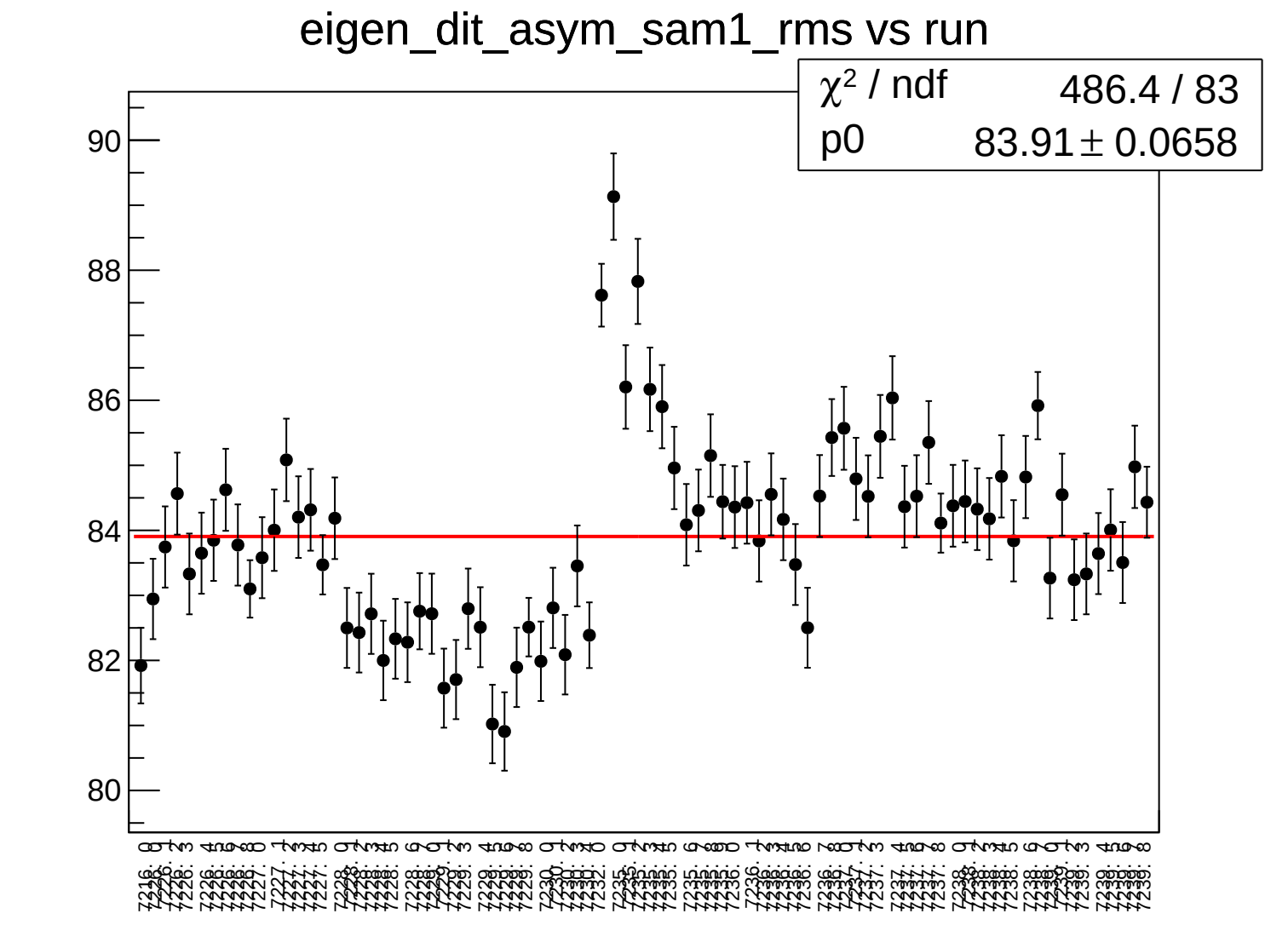

asym_sam1_dit_correction_mean vs run
χ² / ndf 65.3 / 83
p0 −597.8 ± 402.7
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −298.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

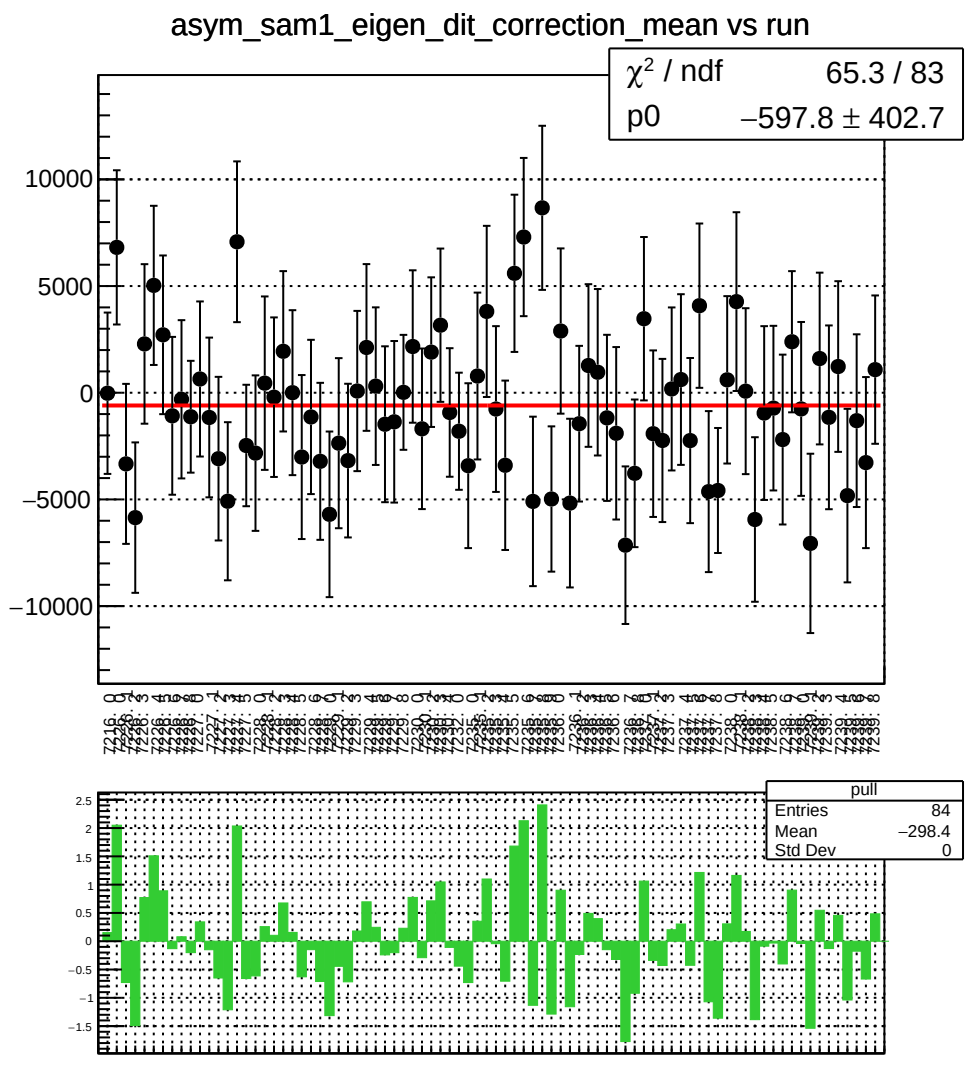

pull1D
Entries 84
Mean 0.006443
Std Dev 0.8817
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

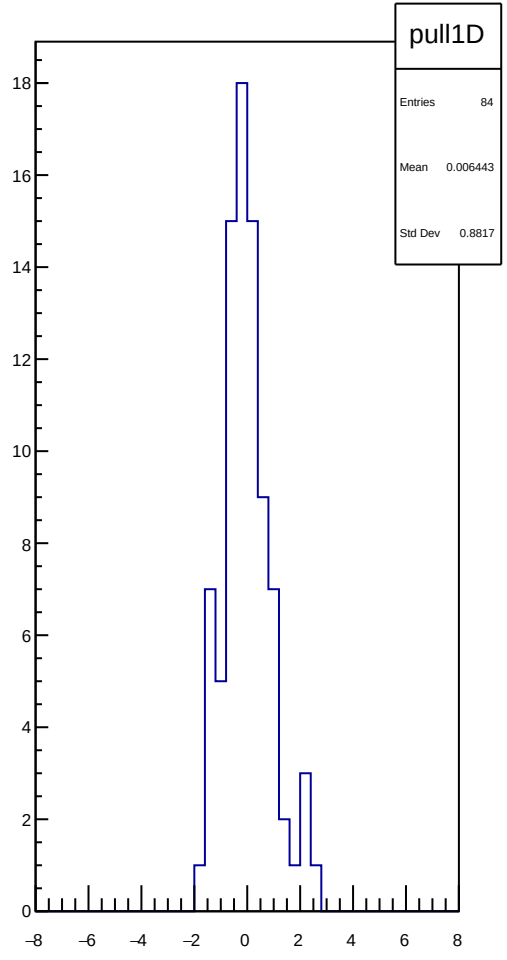

asym_sam1_dit_correction_rms vs run
χ² / ndf 2820 / 83
p0 362.9 ± 0.2848
410
400
390
380
370
360
350
340
330

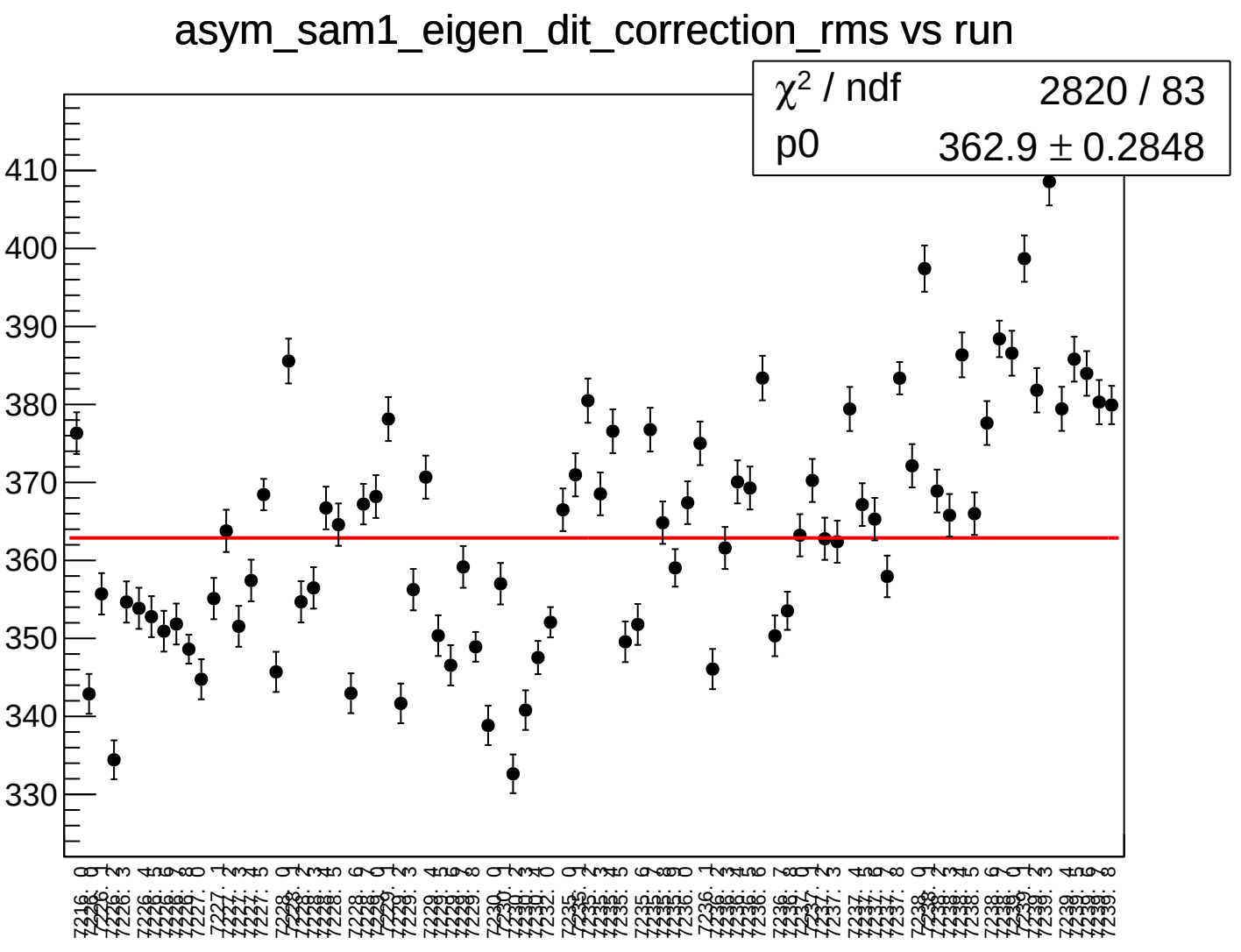

eigen_dit_asym_sam1_mean vs run
χ^2 / ndf 75.36 / 83
p0 172.8 ± 93.05
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean −144.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

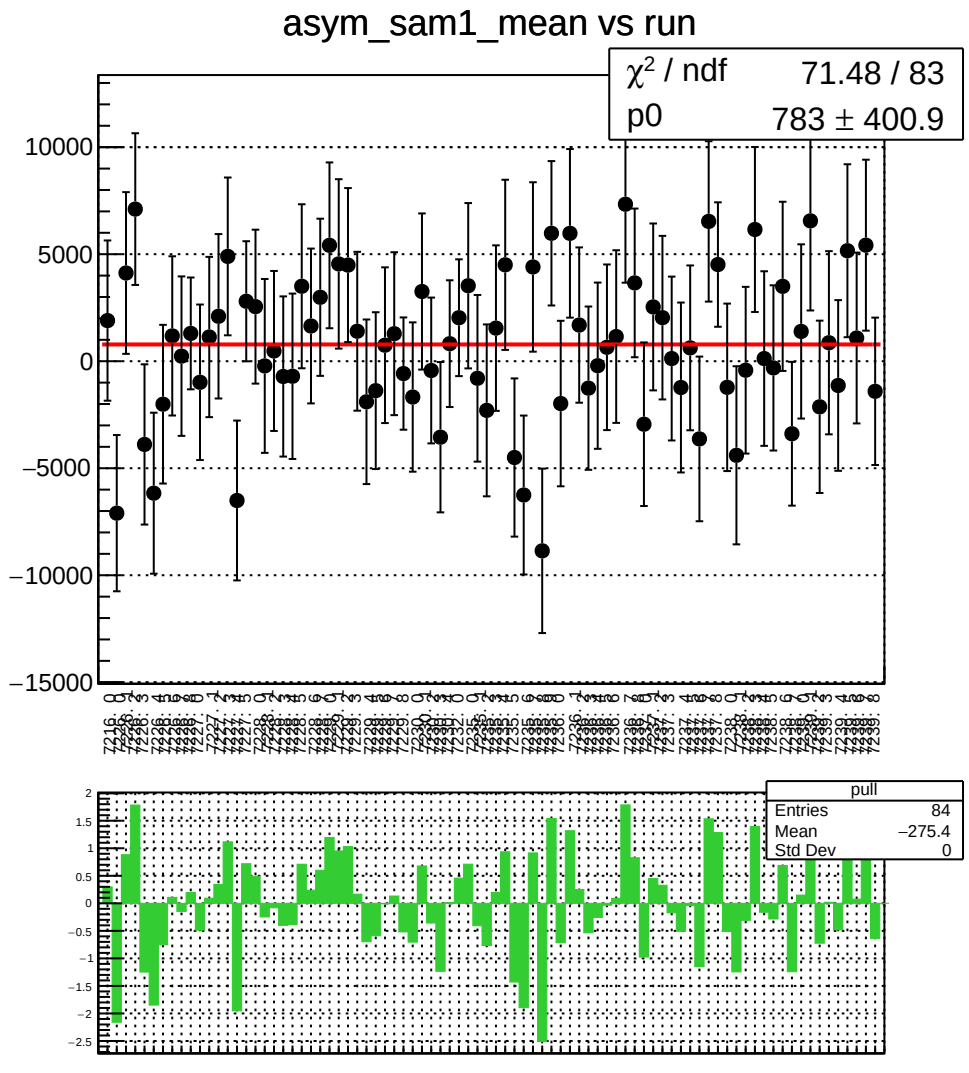

pull1D
Entries 84
Mean 0.01046
Std Dev 0.9471
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

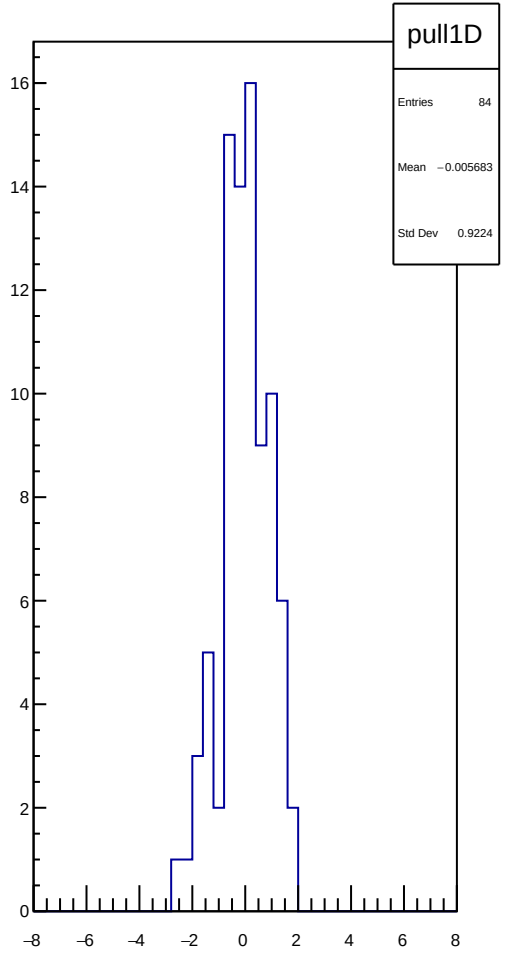

eigen_dit_asym_sam1_rms vs run
χ² / ndf 486.4 / 83
p0 83.91 ± 0.0658
90
88
86
84
82
80

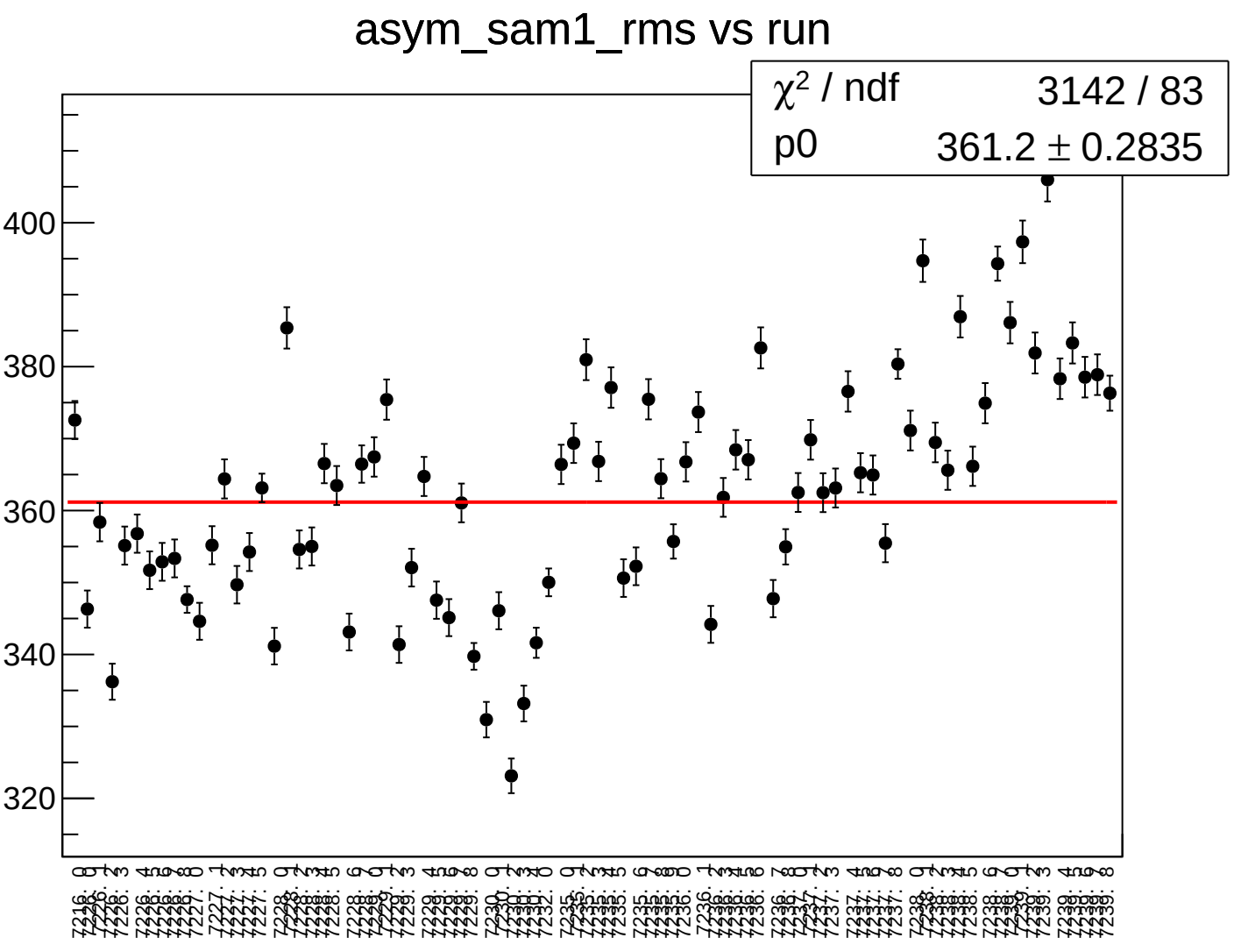

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 65.3 / 83
p0 −597.8 ± 402.7
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −298.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

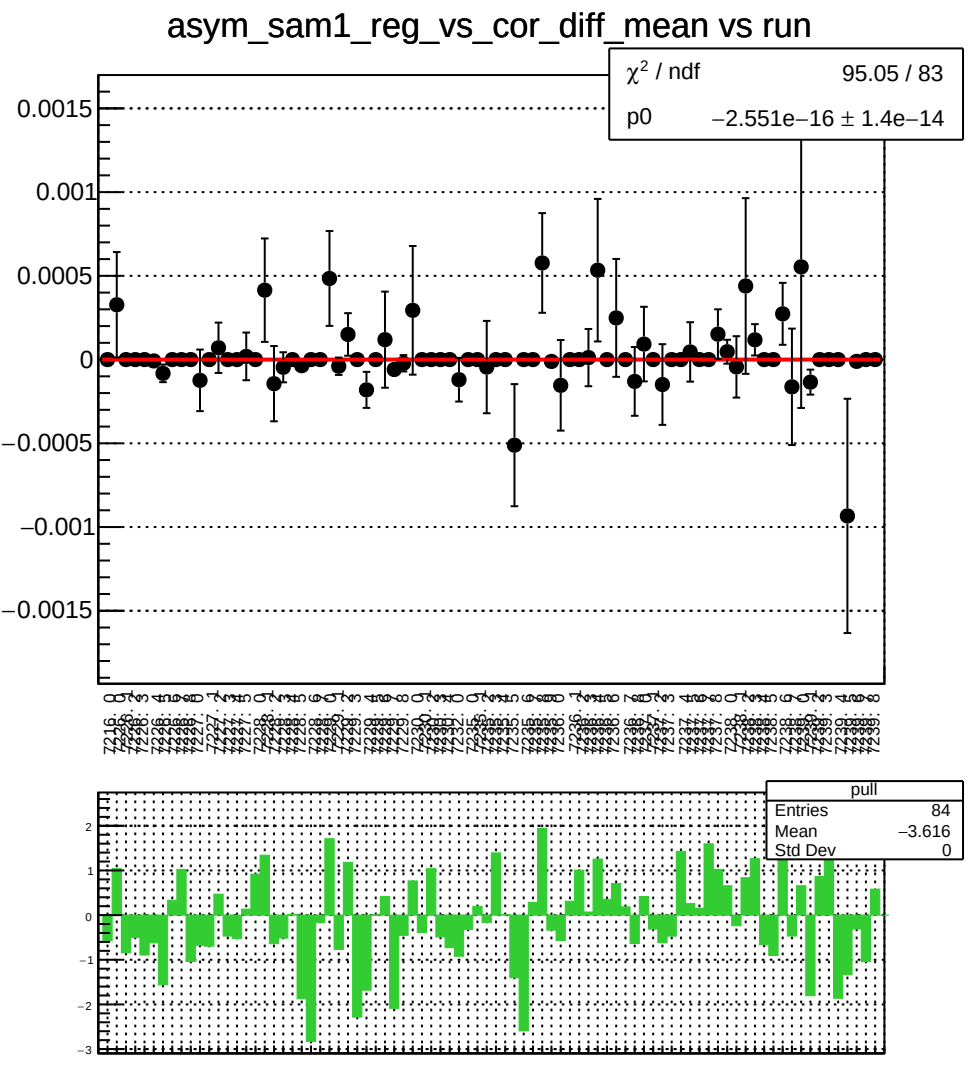

pull1D
Entries 84
Mean 0.006443
Std Dev 0.8817
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

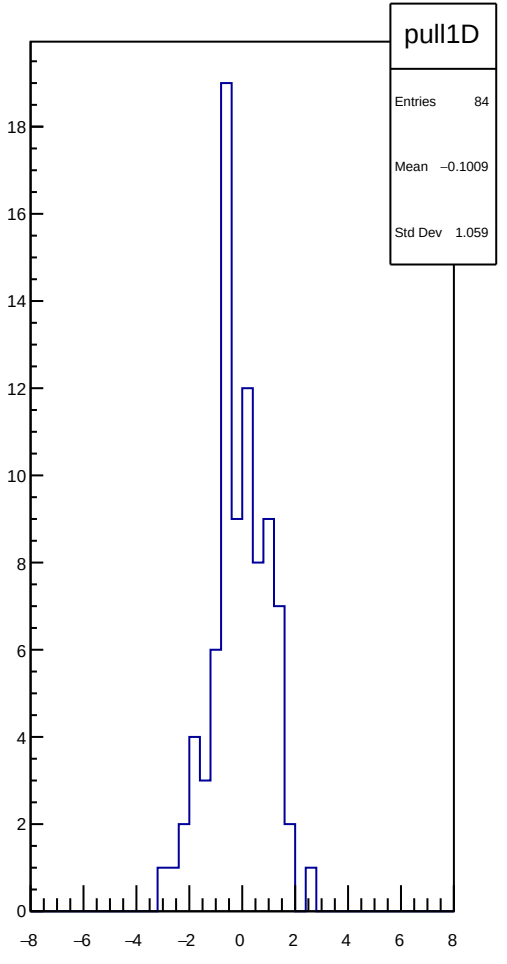

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 2820 / 83
p0 362.9 ± 0.2848
410
400
390
380
370
360
350
340
330

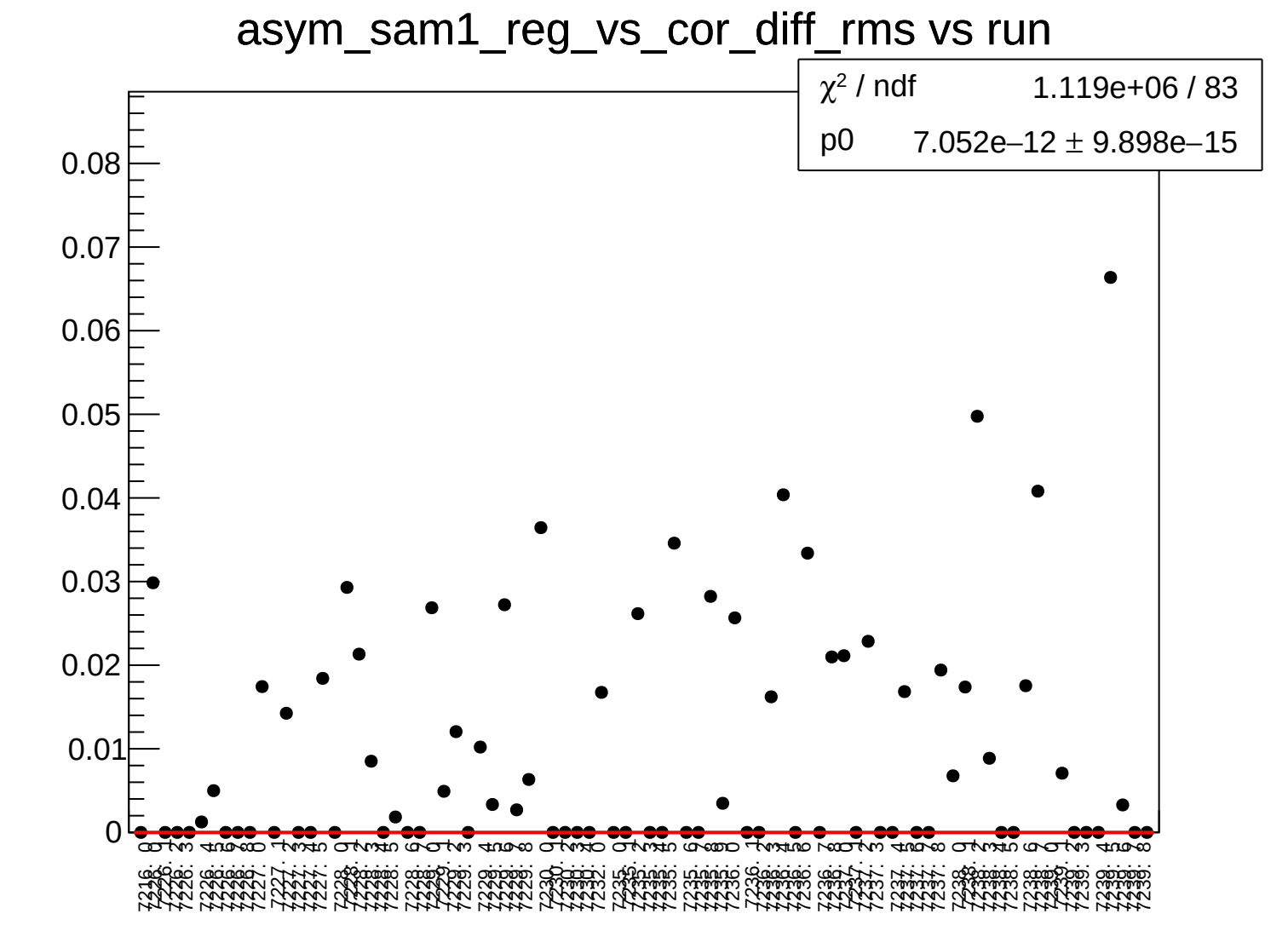

asym_sam1_mean vs run
χ² / ndf 71.48 / 83
p0 783 ± 400.9
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −275.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

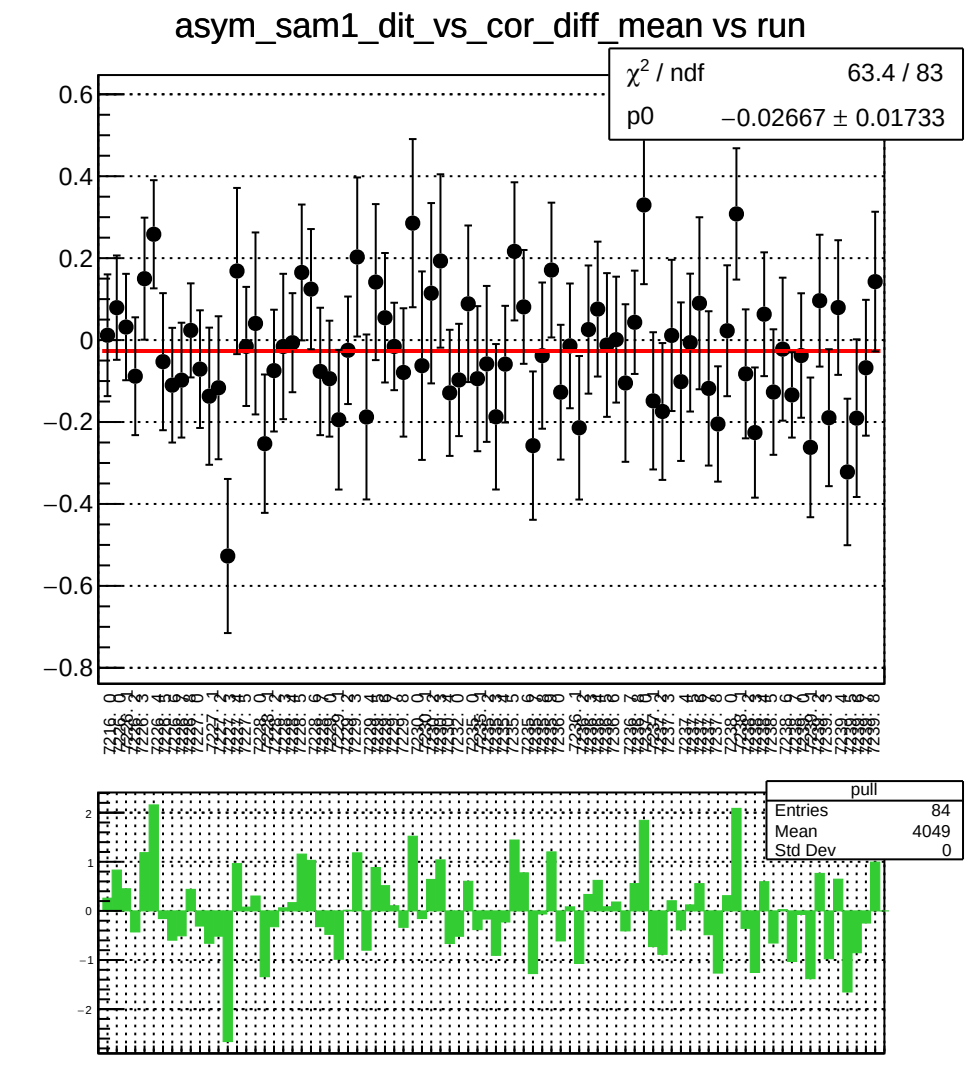

pull1D
Entries 84
Mean −0.005683
Std Dev 0.9224
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

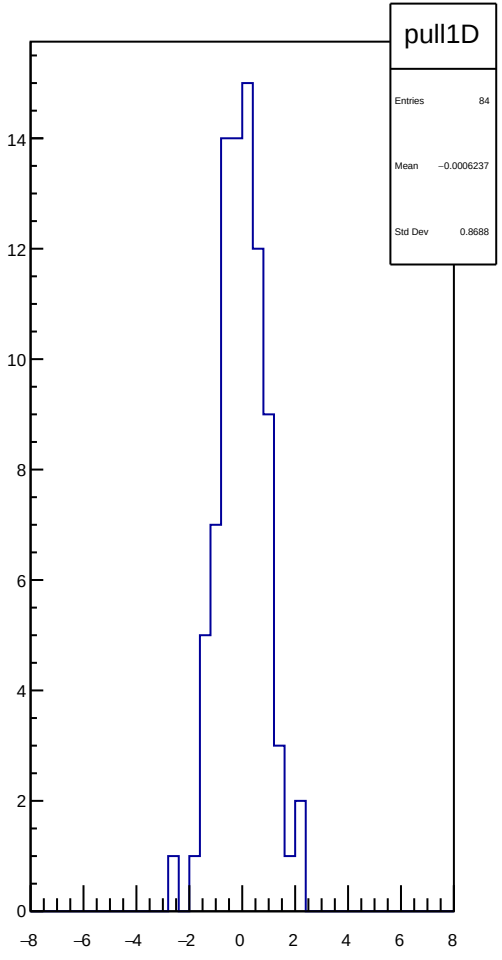

asym_sam1_rms vs run
χ² / ndf 3142 / 83
p0 361.2 ± 0.2835
400
380
360
340
320

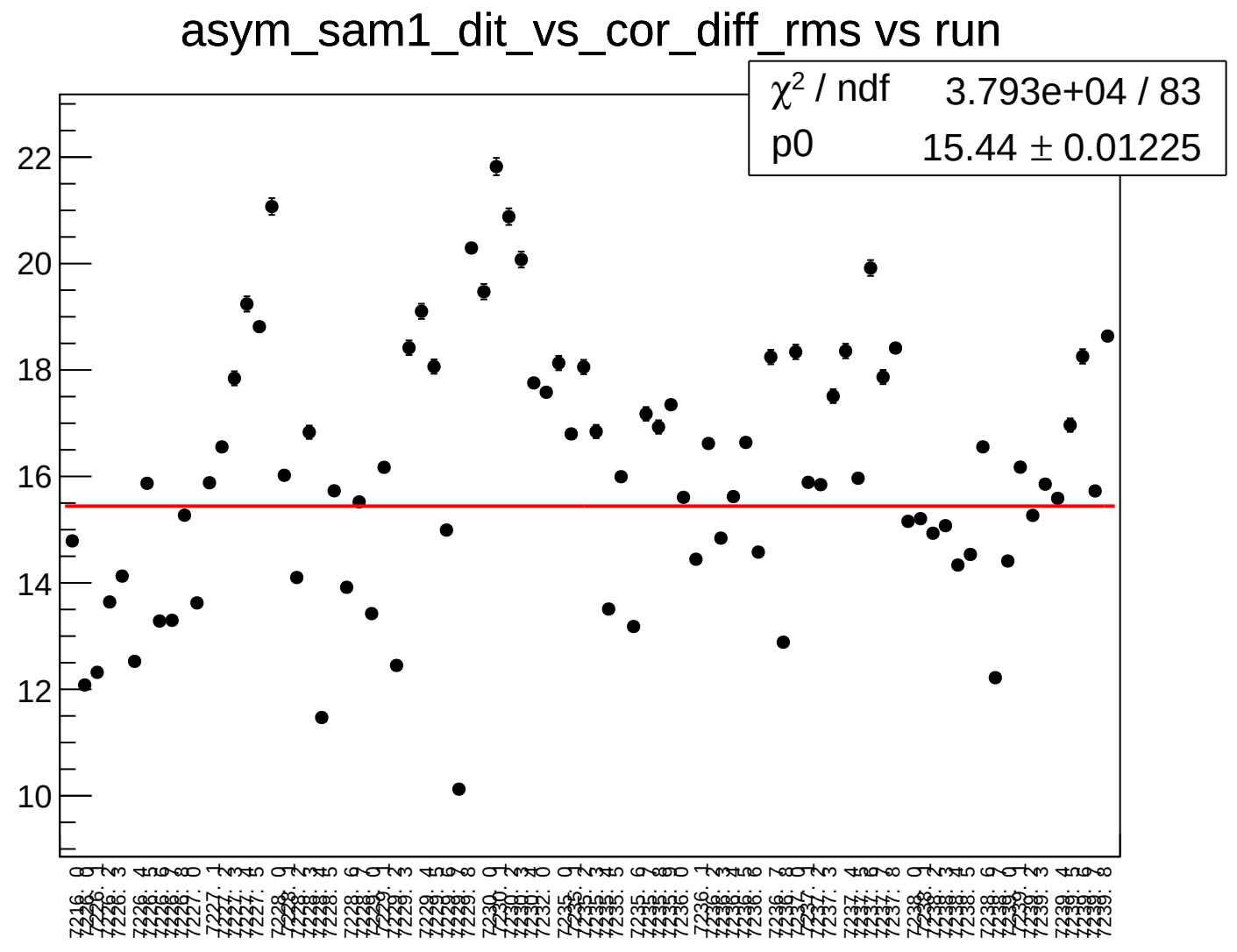

asym_sam1_reg_vs_cor_diff_mean vs run
χ² / ndf 95.05 / 83
p0 −2.551e−16 ± 1.4e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 84
Mean −3.616
Std Dev 0
2
1
0
−1
−2
−3

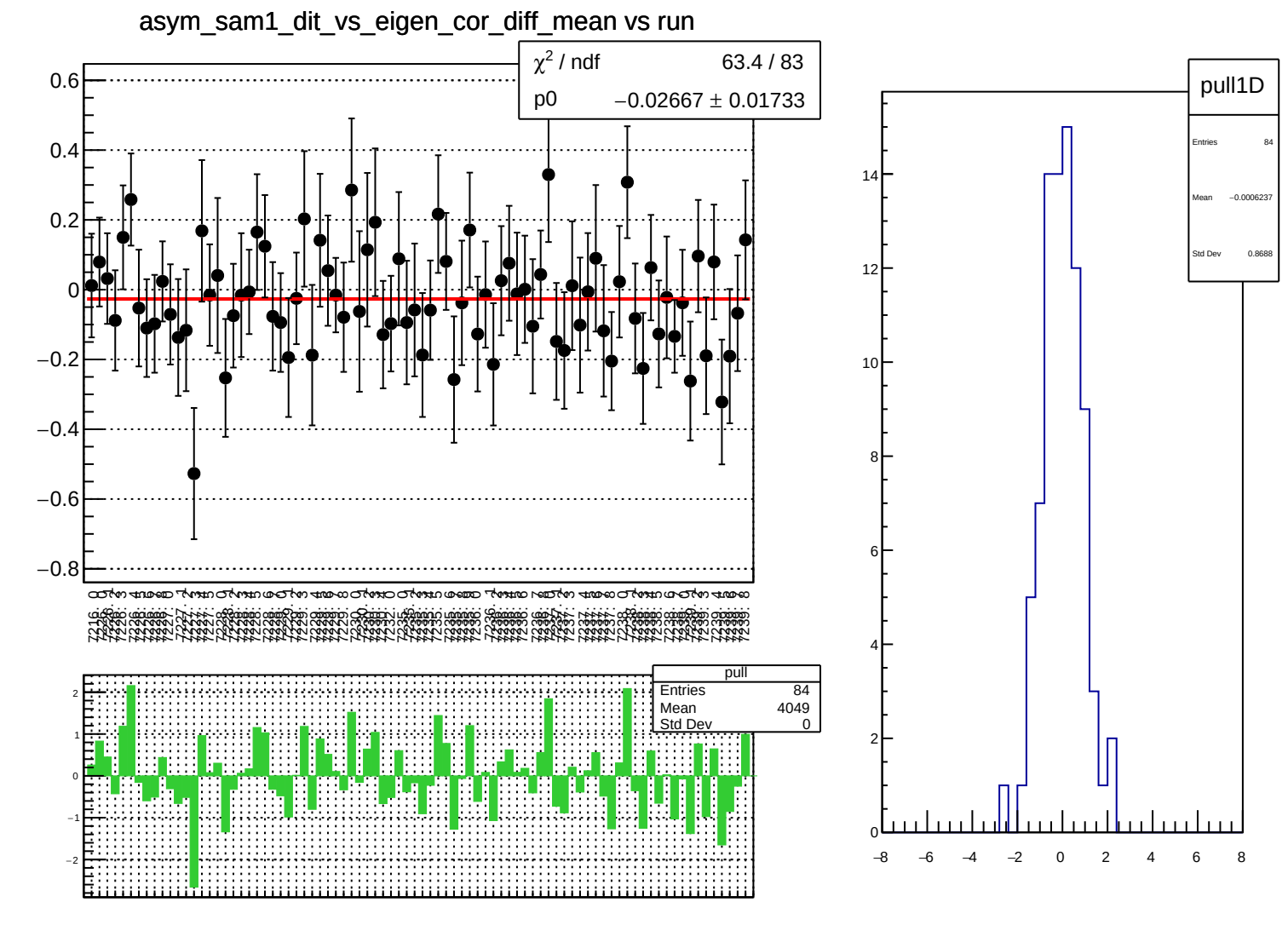

pull1D
Entries 84
Mean −0.1009
Std Dev 1.059
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

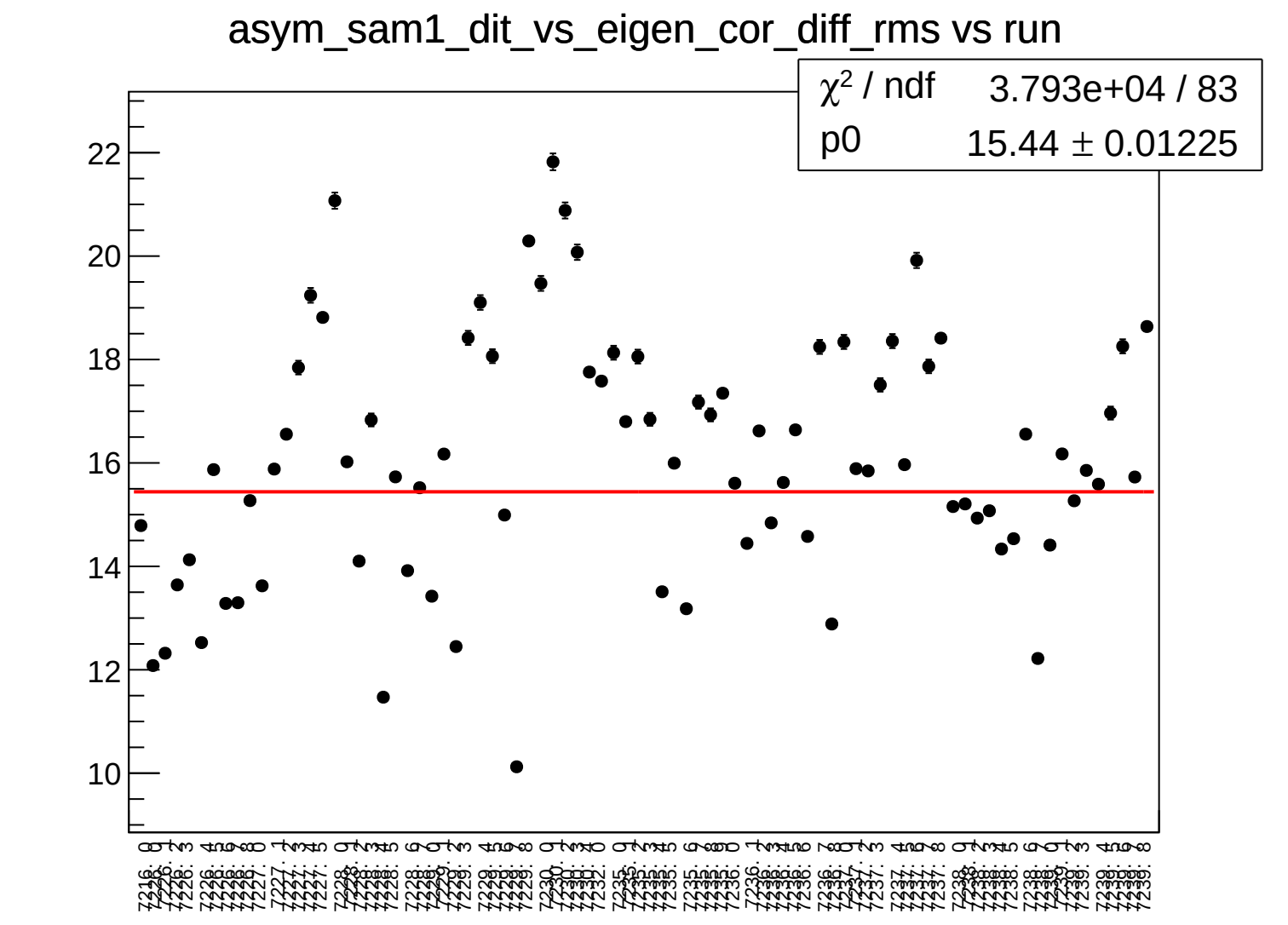

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.119e+06 / 83
p0 7.052e−12 ± 9.898e−15
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

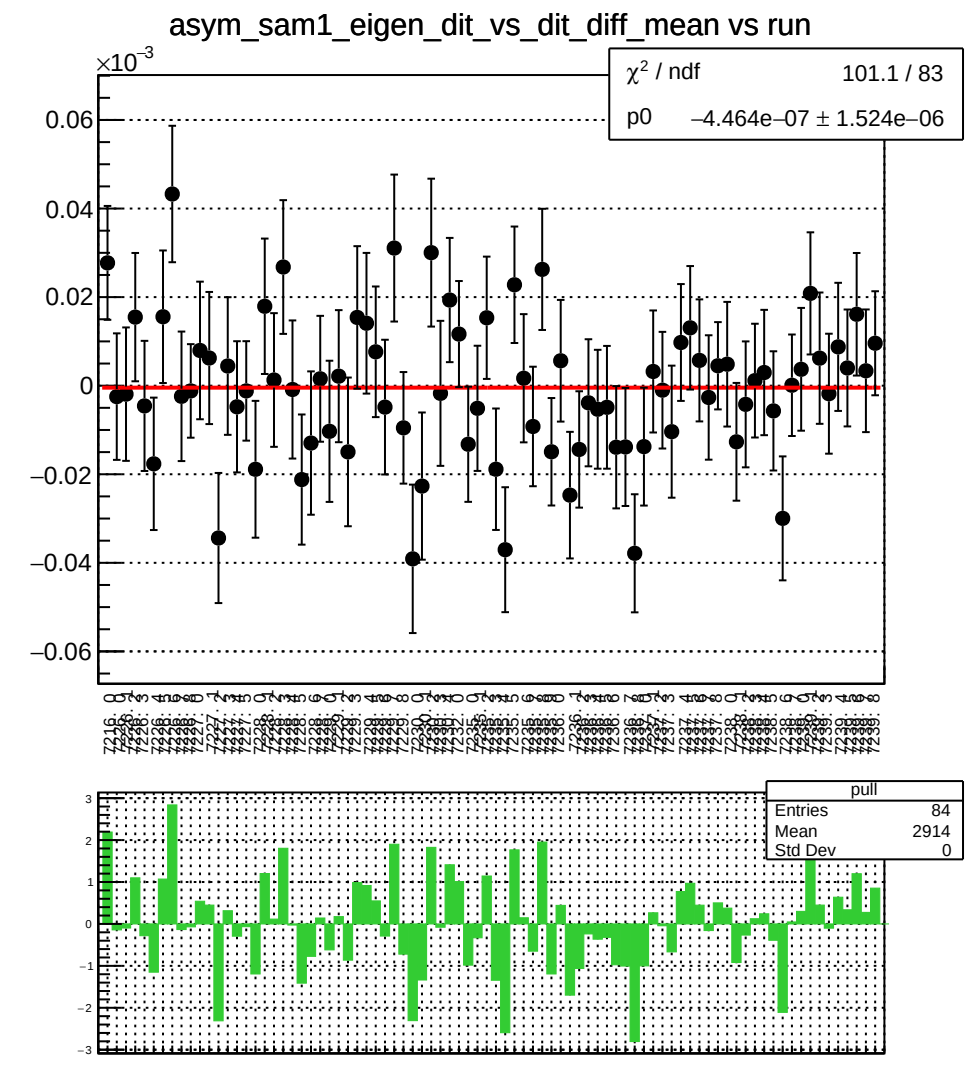

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 63.4 / 83
p0 −0.02667 ± 0.01733
pull
Entries 84
Mean 4049
Std Dev 0

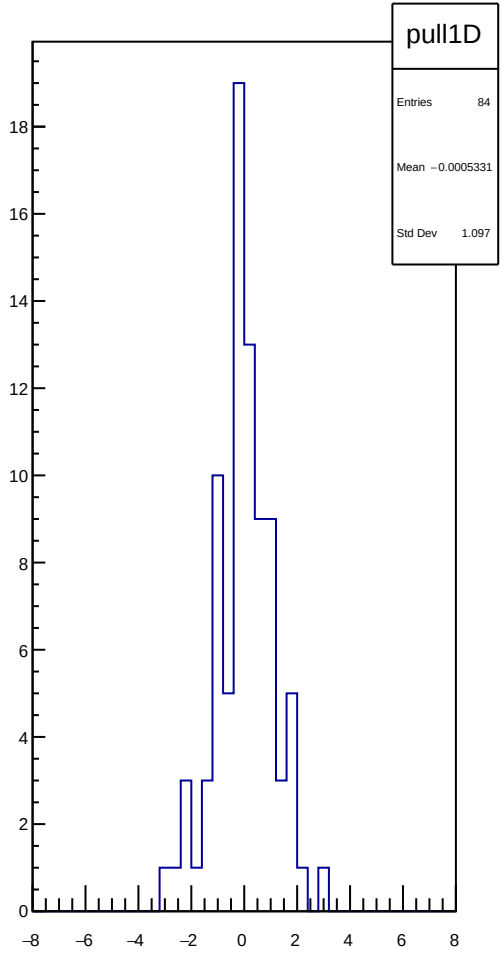

pull1D
Entries 84
Mean −0.0006237
Std Dev 0.8688

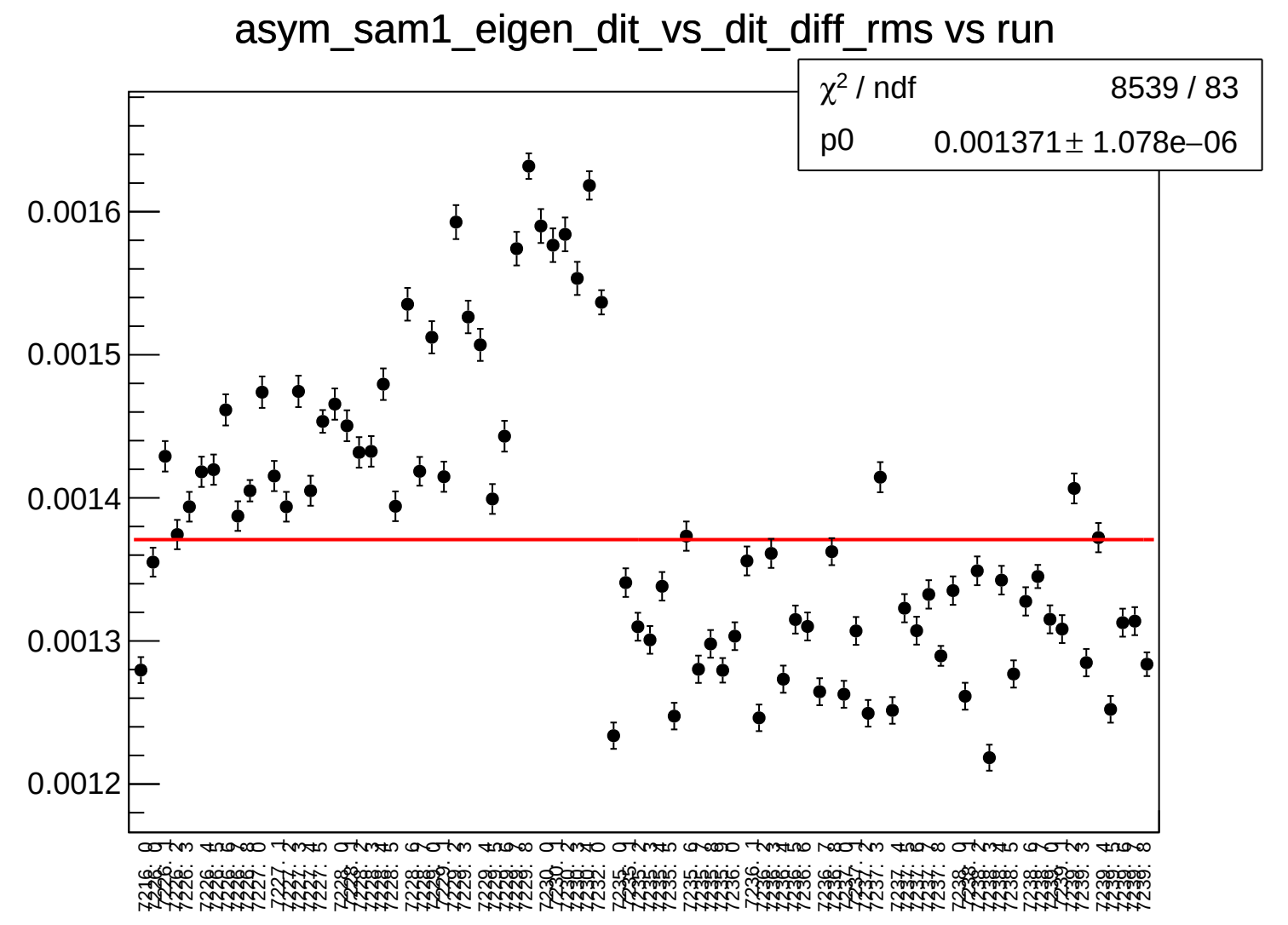

asym_sam1_dit_vs_cor_diff_rms vs run
χ² / ndf 3.793e+04 / 83
p0 15.44 ± 0.01225
22
20
18
16
14
12
10

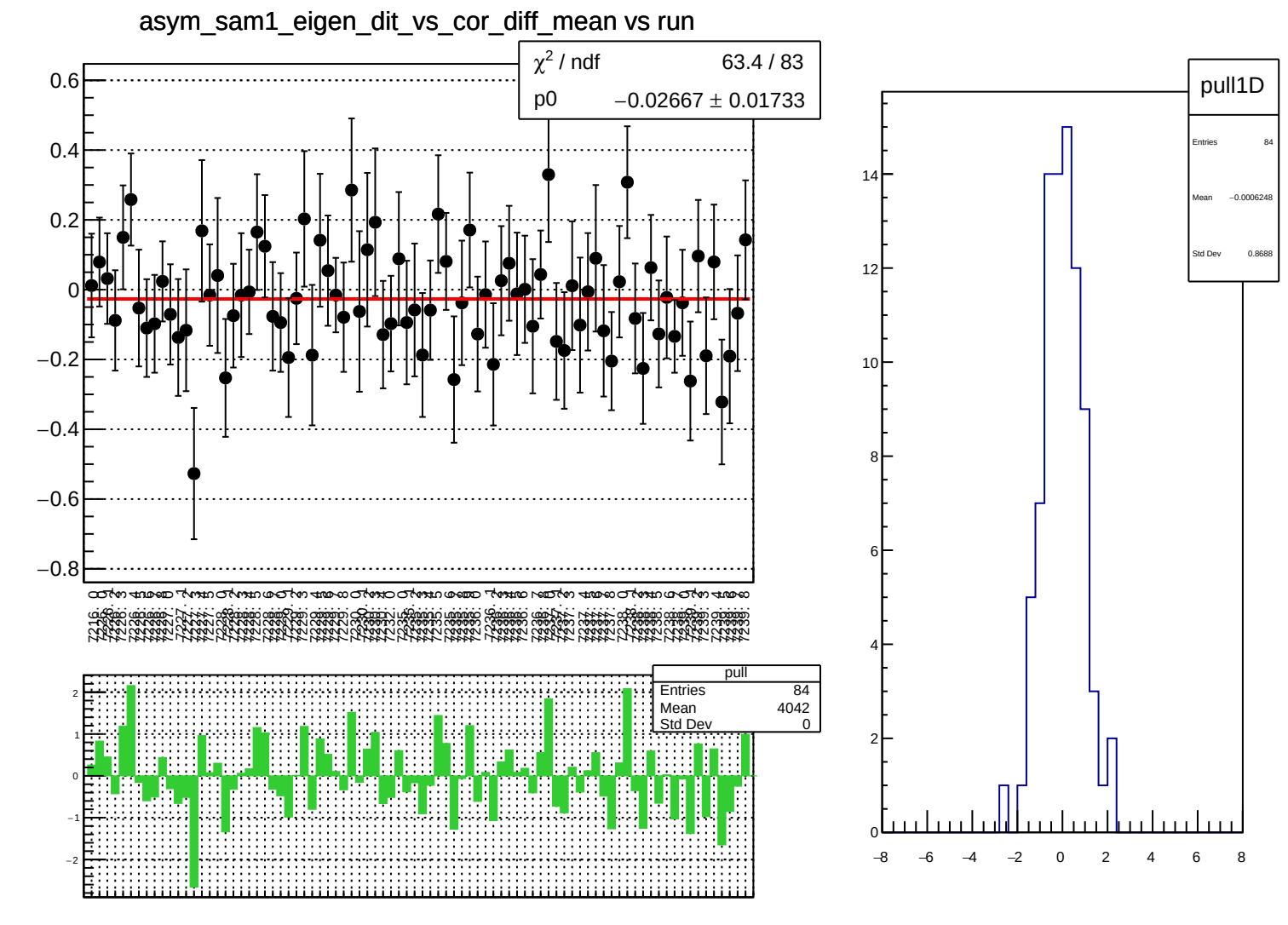

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 63.4 / 83
p0 −0.02667 ± 0.01733
pull
Entries 84
Mean 4049
Std Dev 0
pull1D
Entries 84
Mean −0.0006237
Std Dev 0.8688

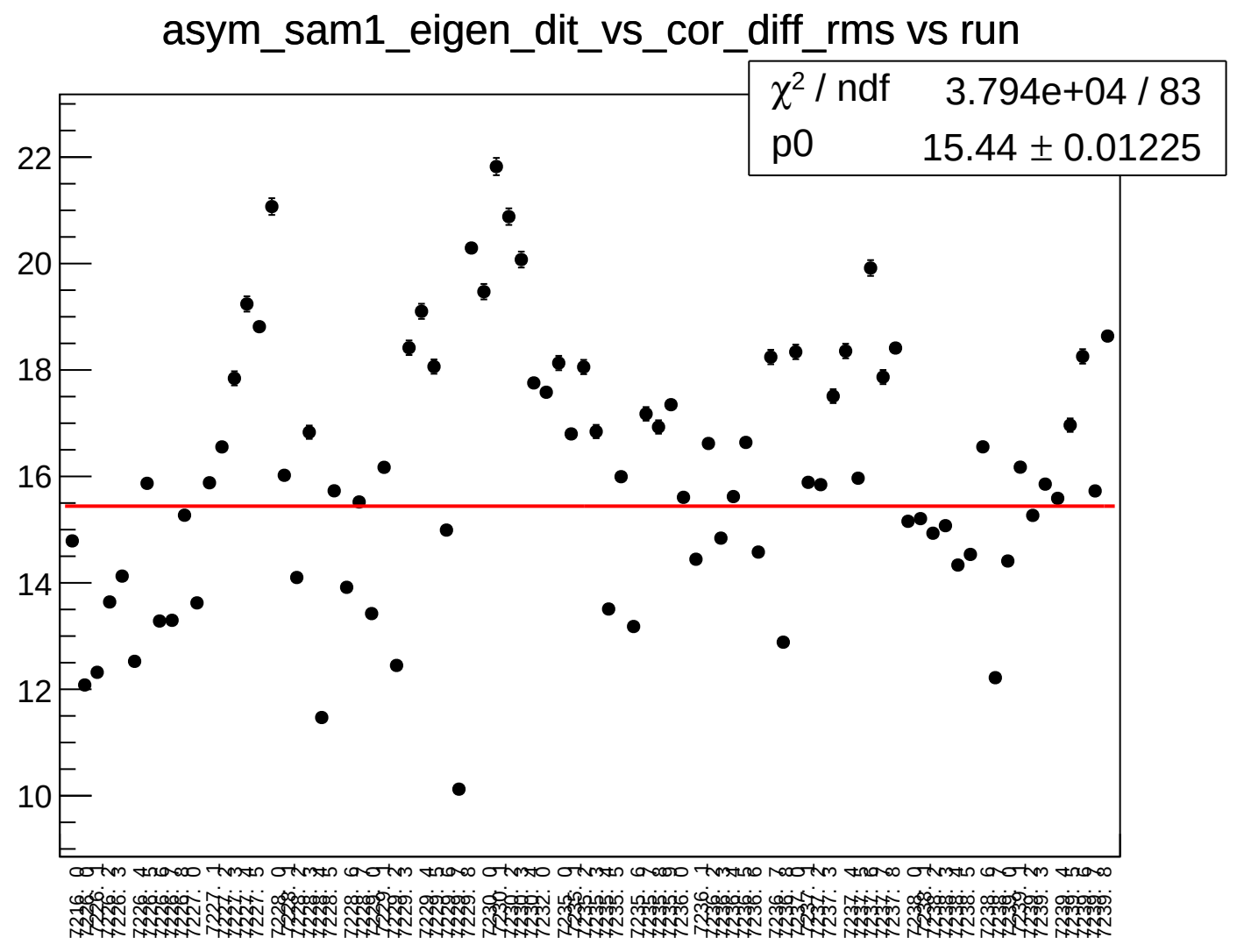

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.793e+04 / 83
p0 15.44 ± 0.01225
22
20
18
16
14
12
10

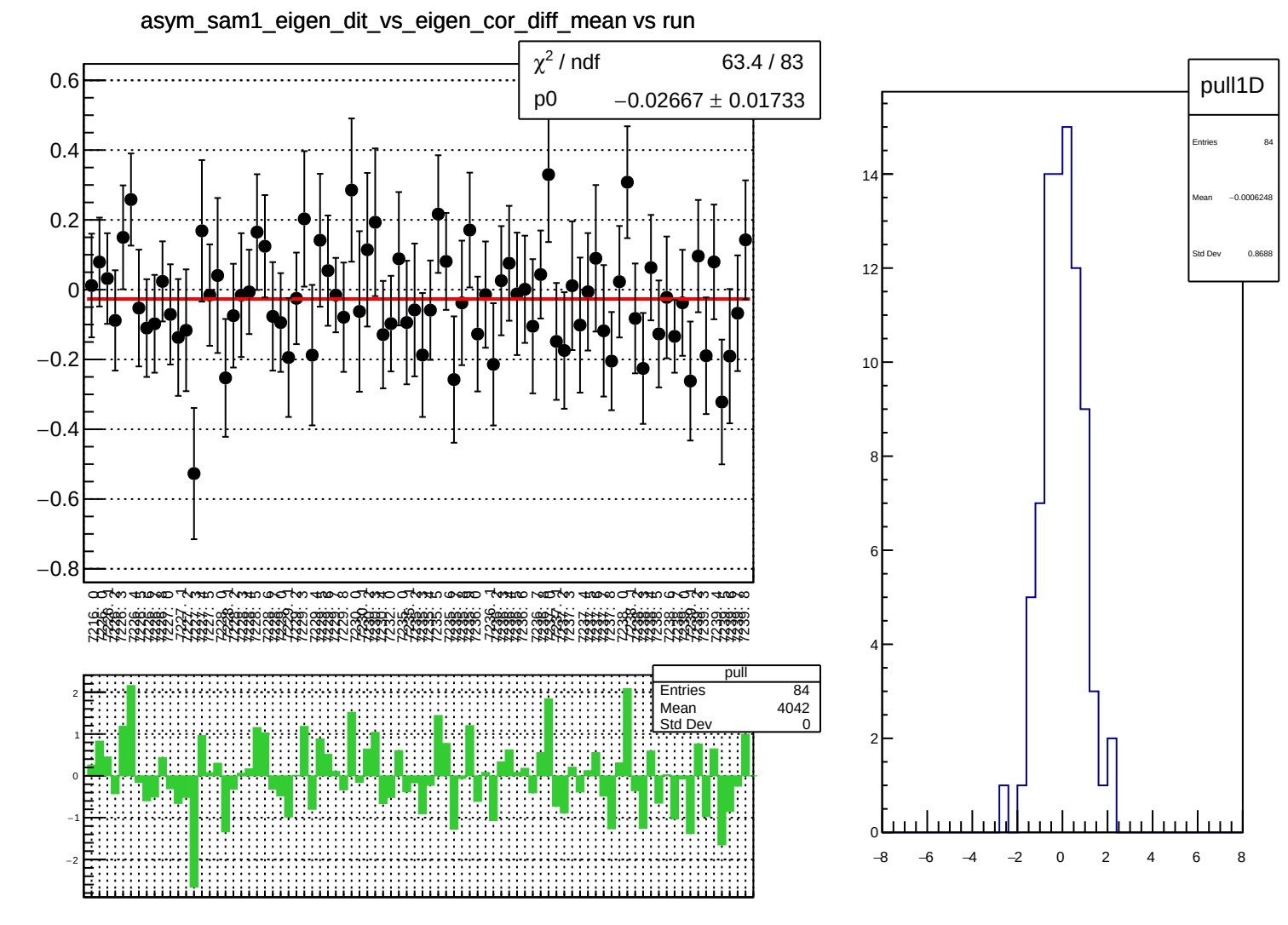

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.1 / 83
p0 −4.464e−07 ± 1.524e−06
pull
Entries 84
Mean 2914
Std Dev 0

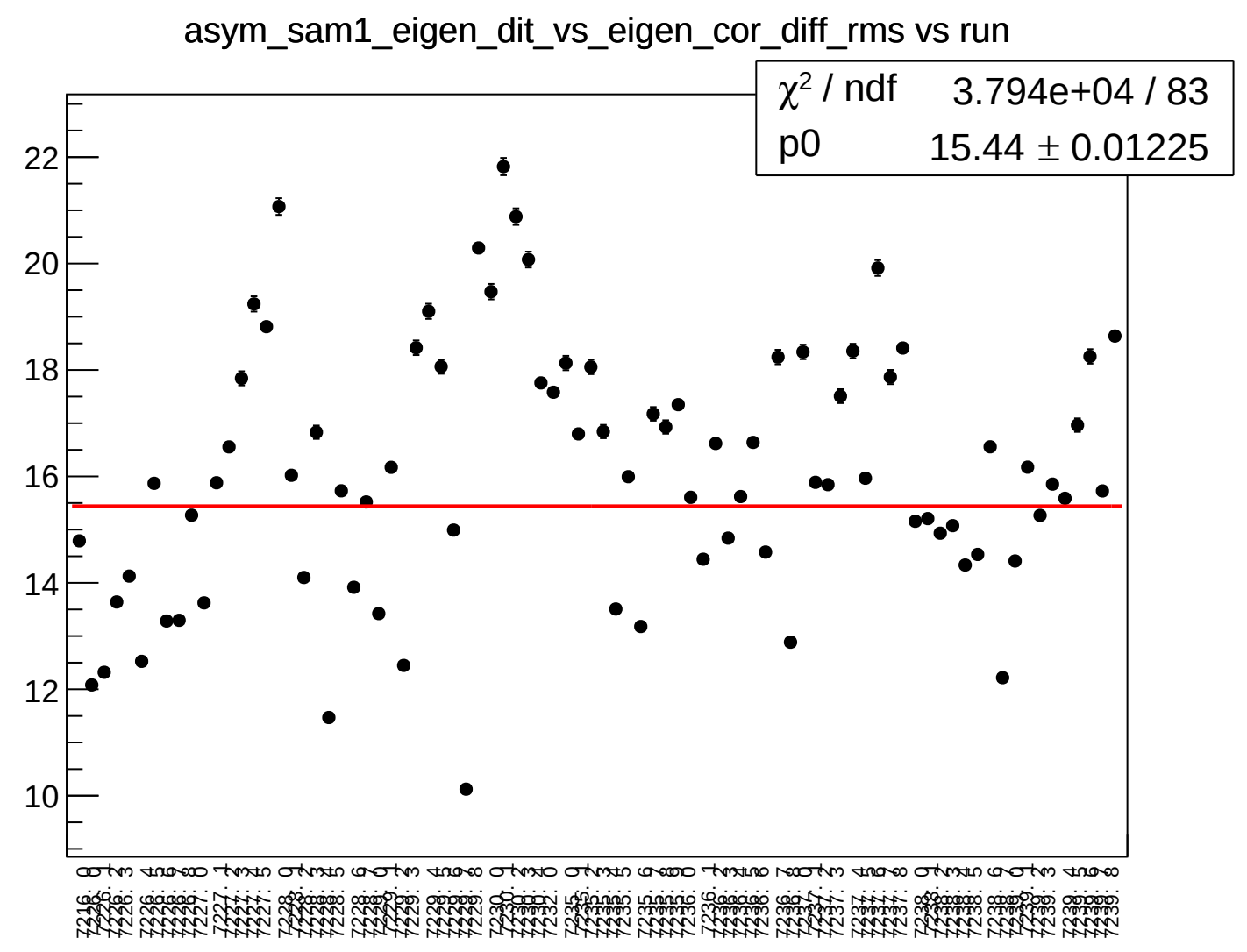

pull1D
Entries 84
Mean −0.0005331
Std Dev 1.097

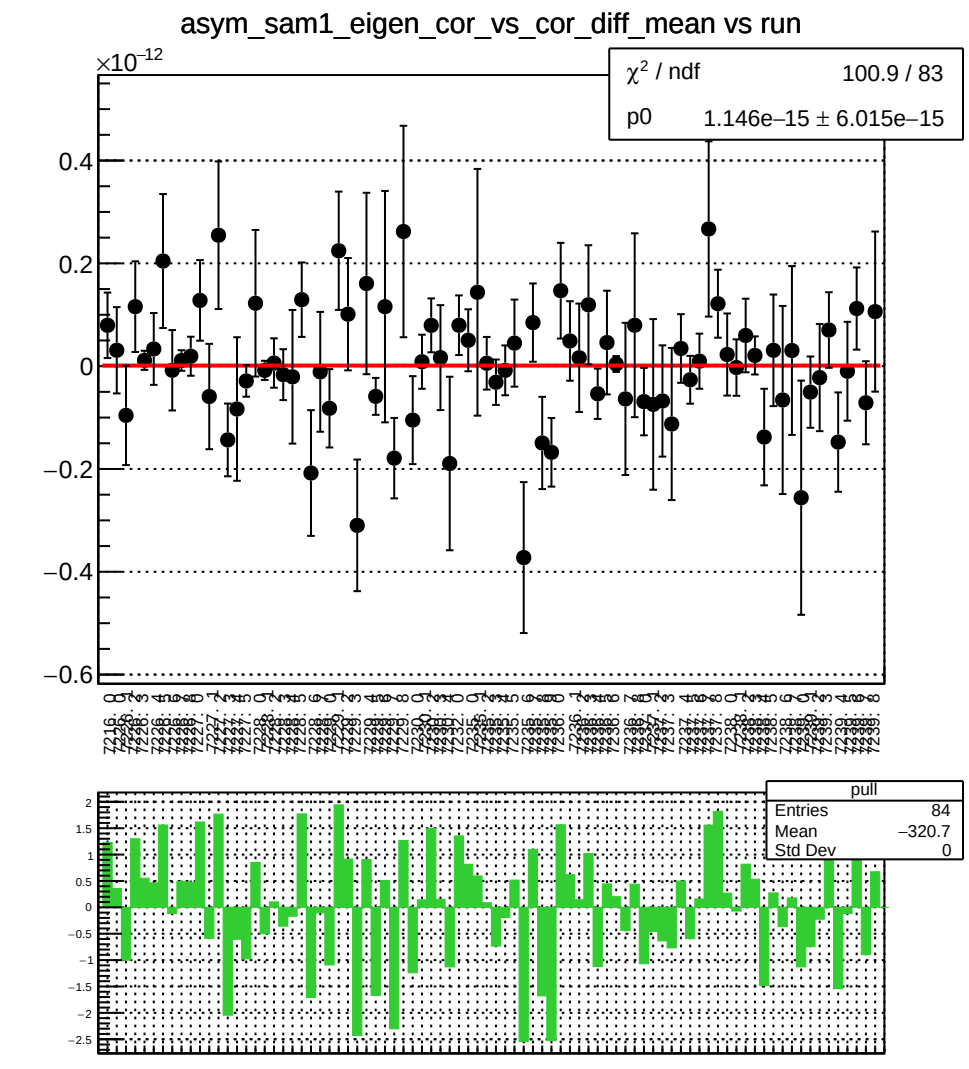

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8539 / 83
p0 0.001371 ± 1.078e−06
0.0016
0.0015
0.0014
0.0013
0.0012

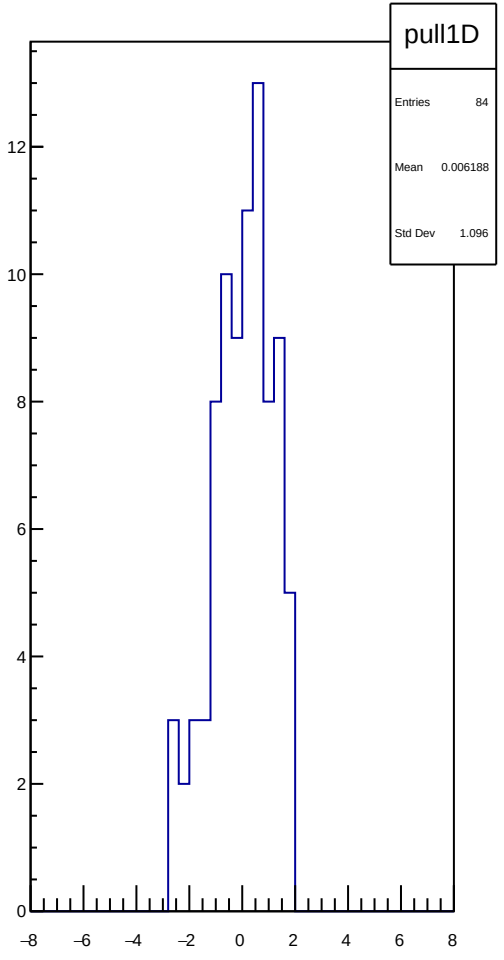

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 63.4 / 83
p0 −0.02667 ± 0.01733
pull
Entries 84
Mean 4042
Std Dev 0
pull1D
Entries 84
Mean −0.0006248
Std Dev 0.8688

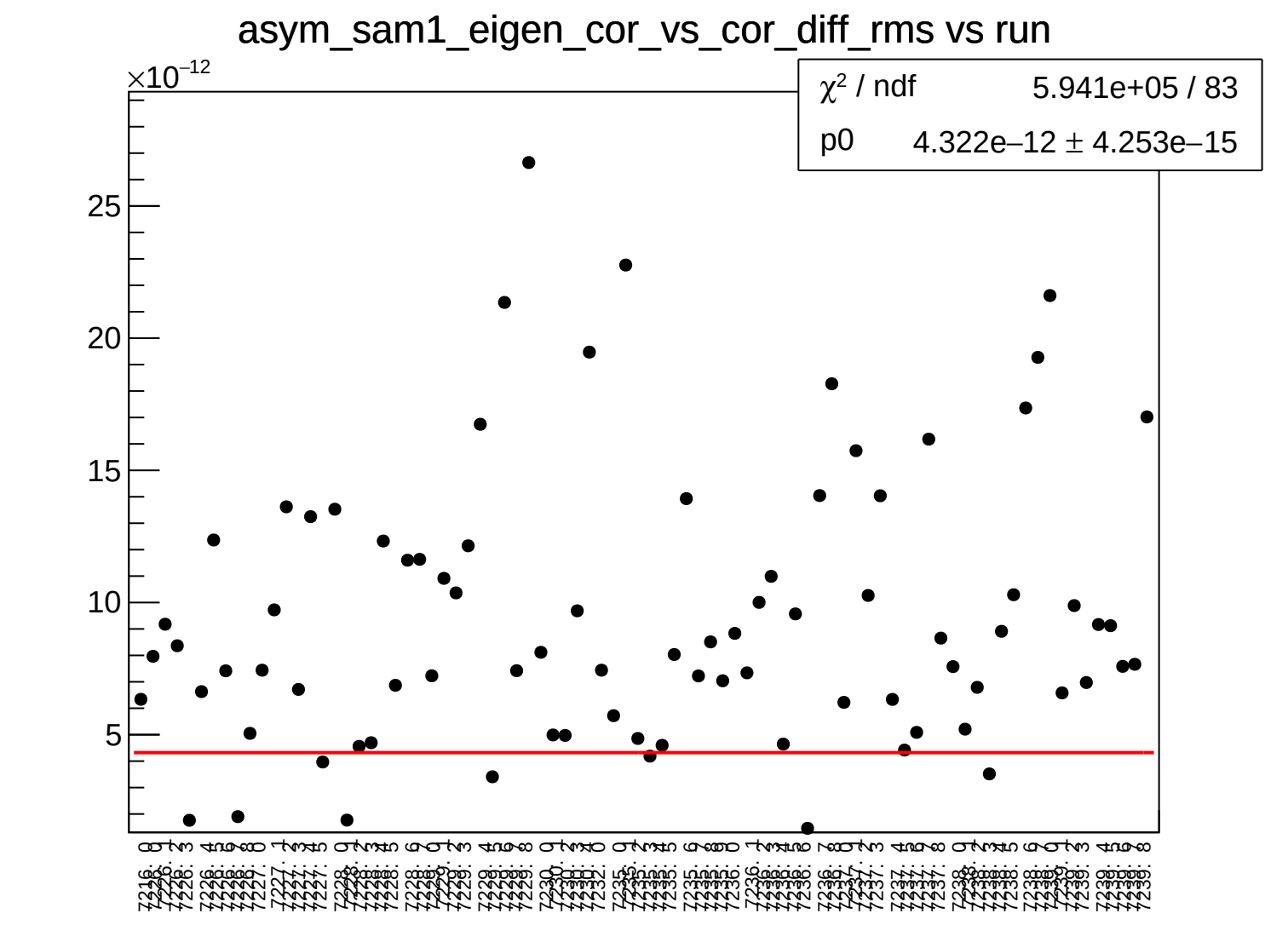

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.794e+04 / 83
p0 15.44 ± 0.01225
22
20
18
16
14
12
10

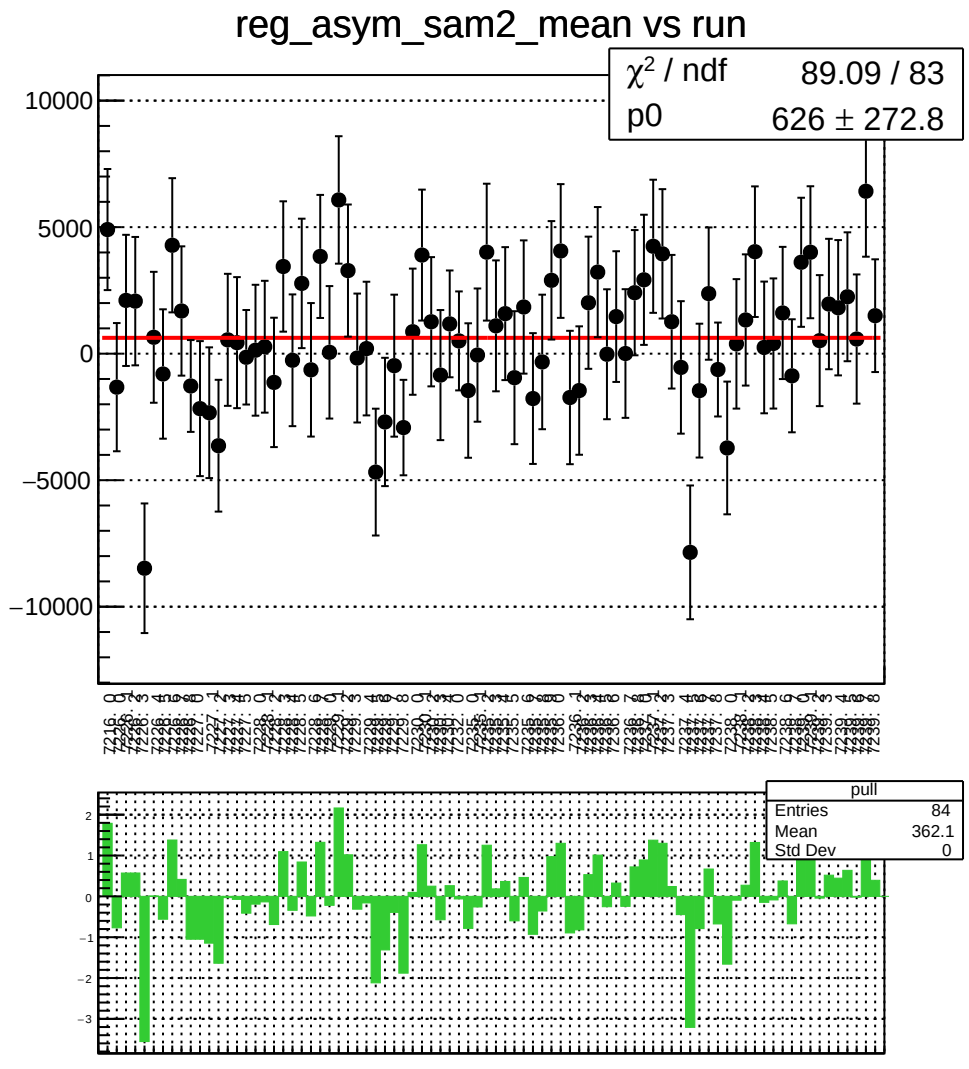

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 63.4 / 83
p0 −0.02667 ± 0.01733
pull
Entries 84
Mean 4042
Std Dev 0
pull1D
Entries 84
Mean −0.0006248
Std Dev 0.8688

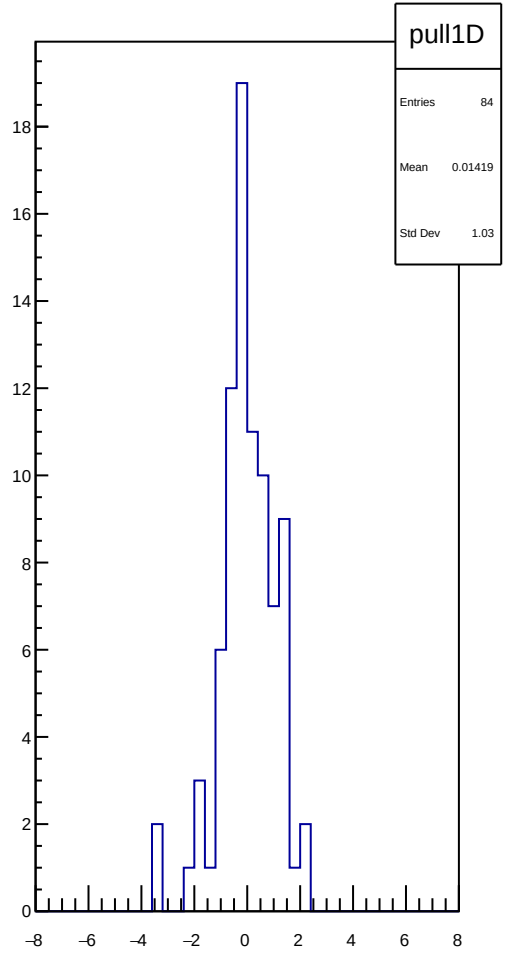

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.794e+04 / 83
p0 15.44 ± 0.01225
22
20
18
16
14
12
10

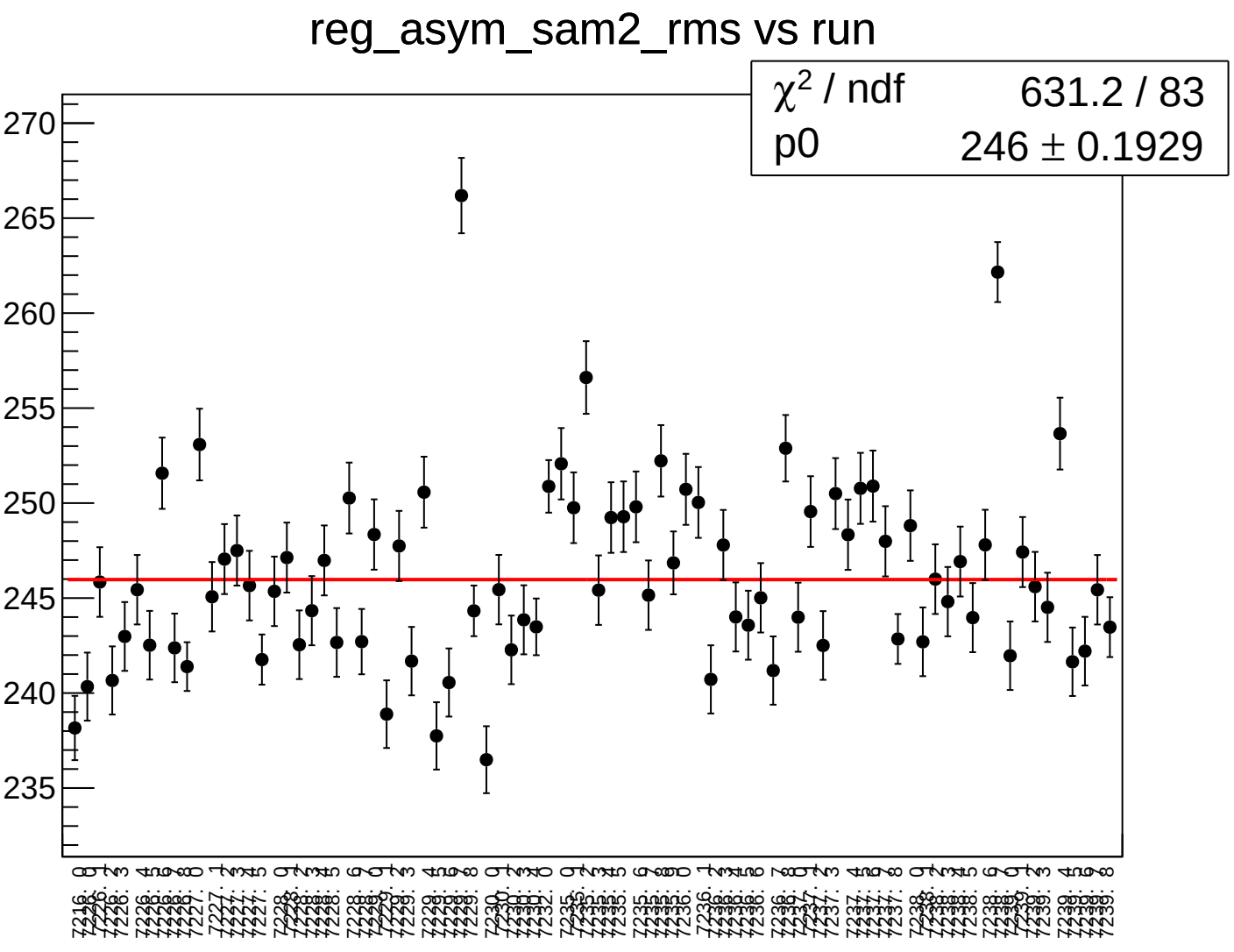

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 100.9 / 83
p0 1.146e−15 ± 6.015e−15
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 84
Mean −320.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

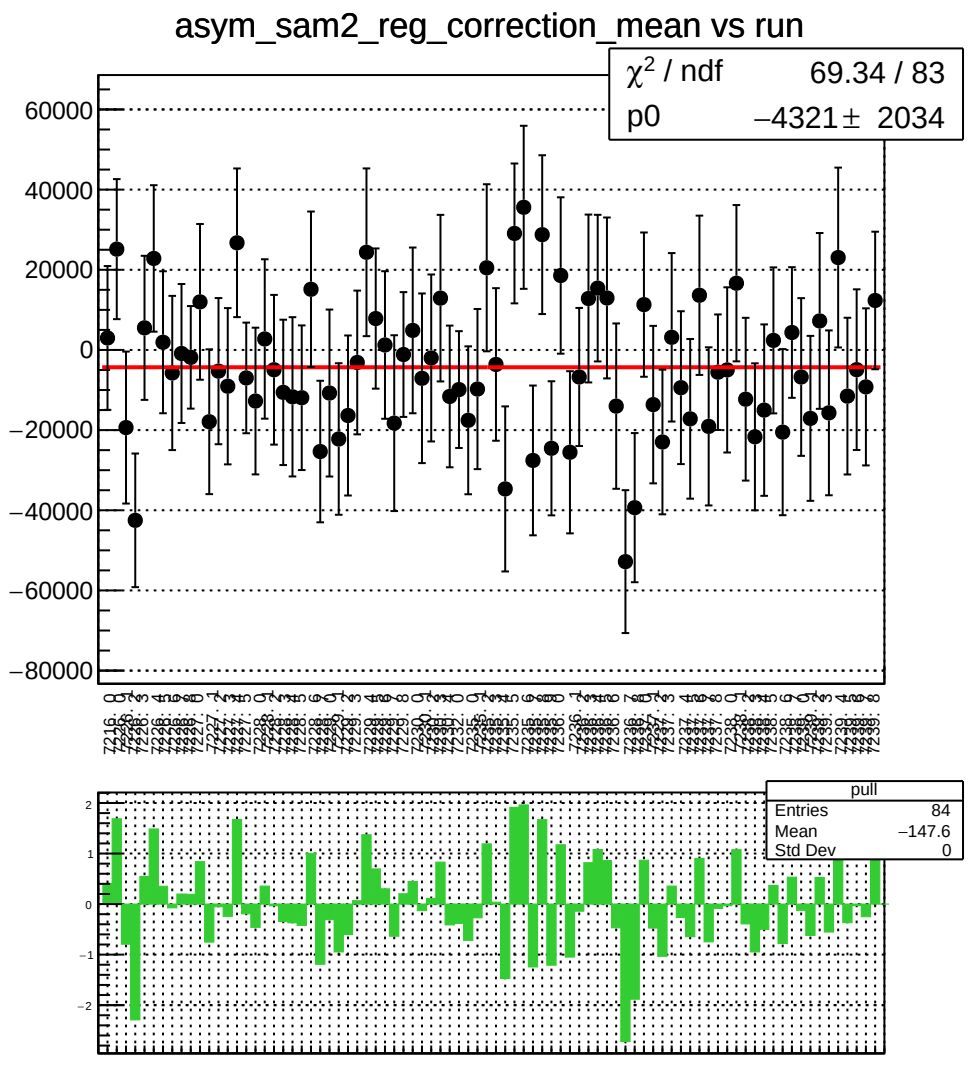

pull1D
Entries 84
Mean 0.006188
Std Dev 1.096
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

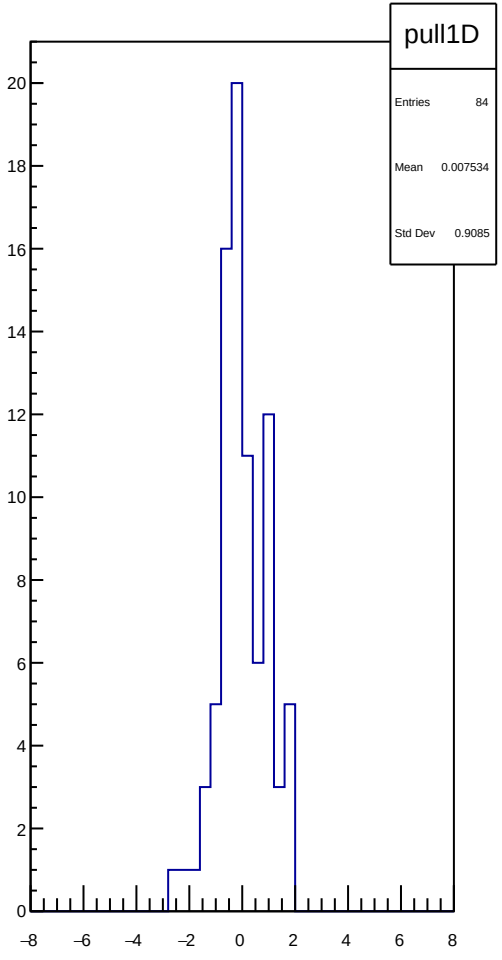

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.941e+05 / 83
p0 4.322e−12 ± 4.253e−15
25
20
15
10
5

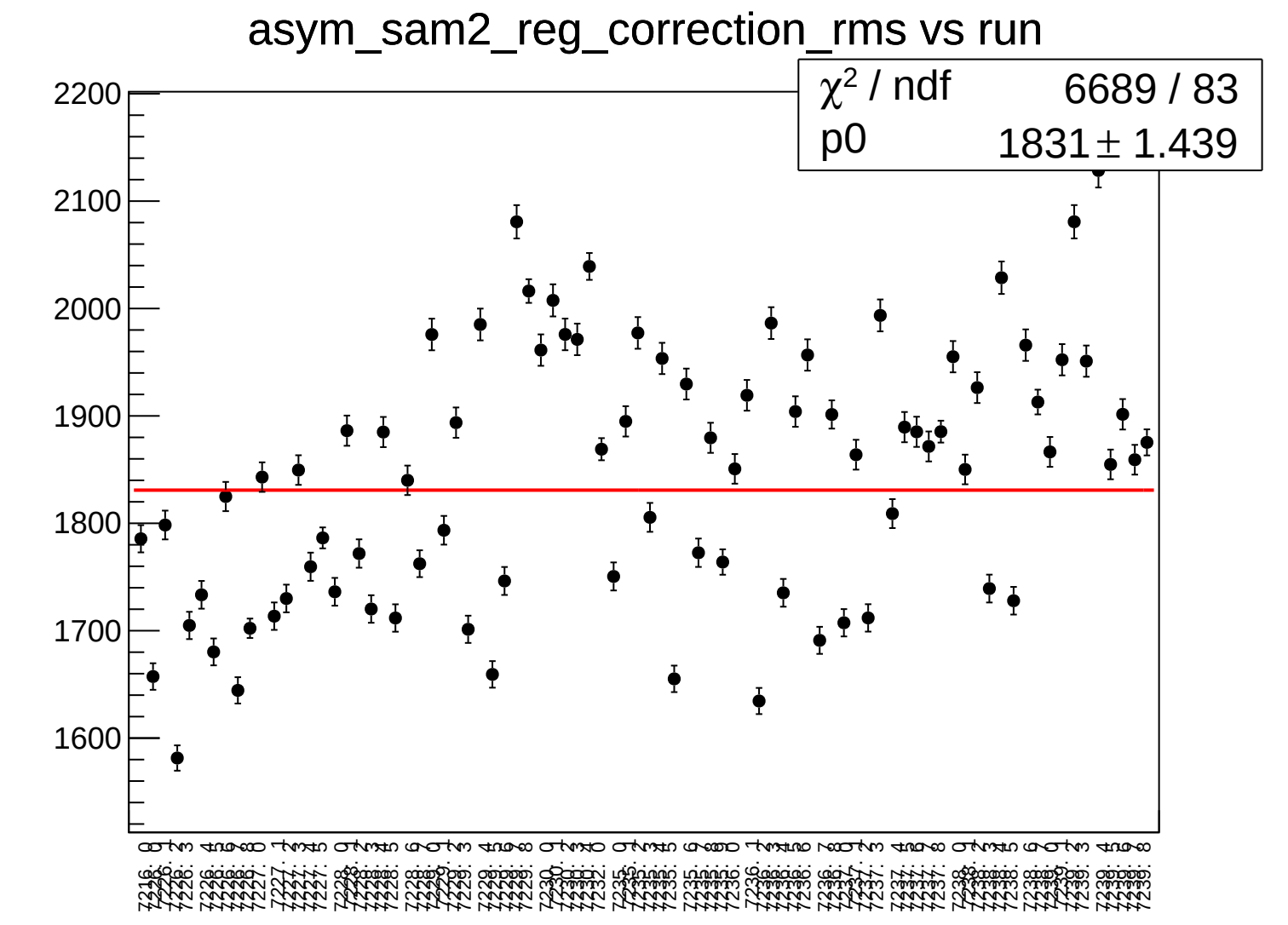

reg_asym_sam2_mean vs run
χ² / ndf 89.09 / 83
p0 626 ± 272.8
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 362.1
Std Dev 0
2
1
0
−1
−2
−3

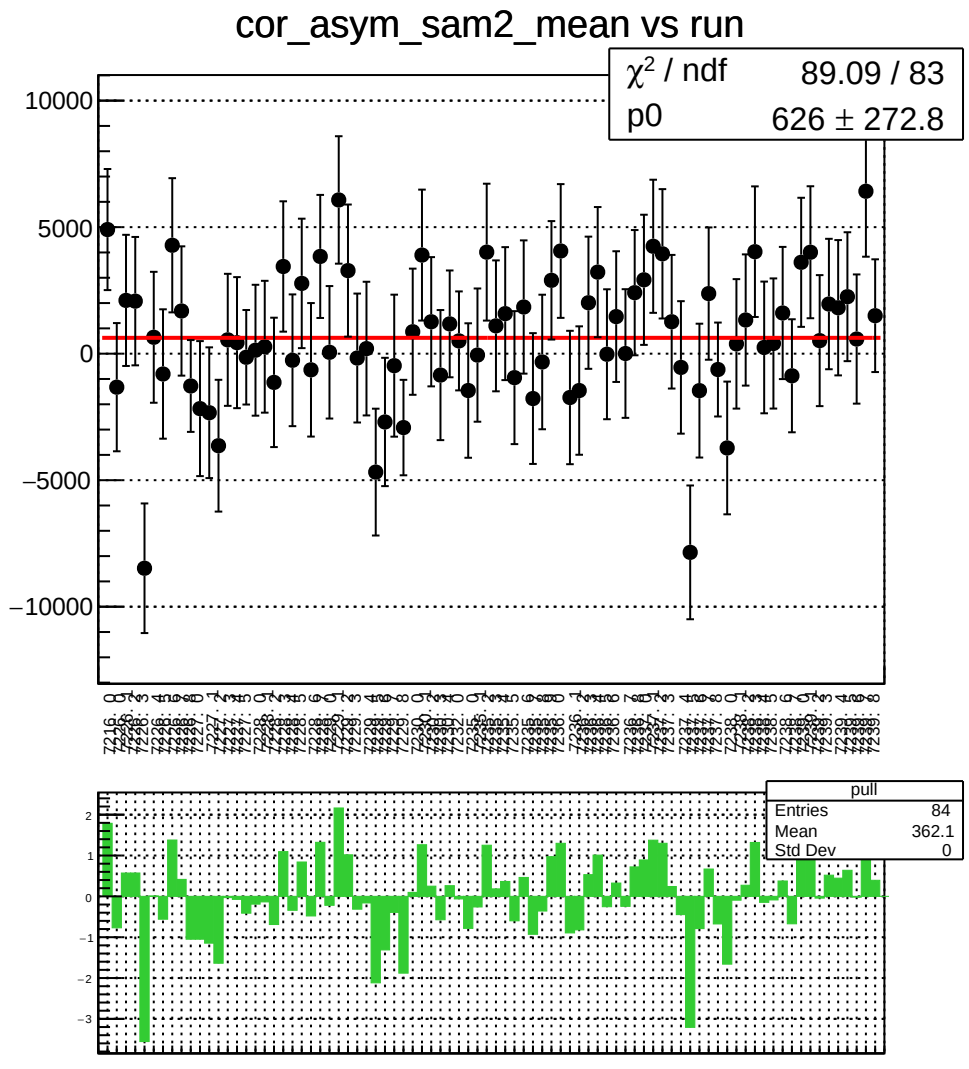

pull1D
Entries 84
Mean 0.01419
Std Dev 1.03
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

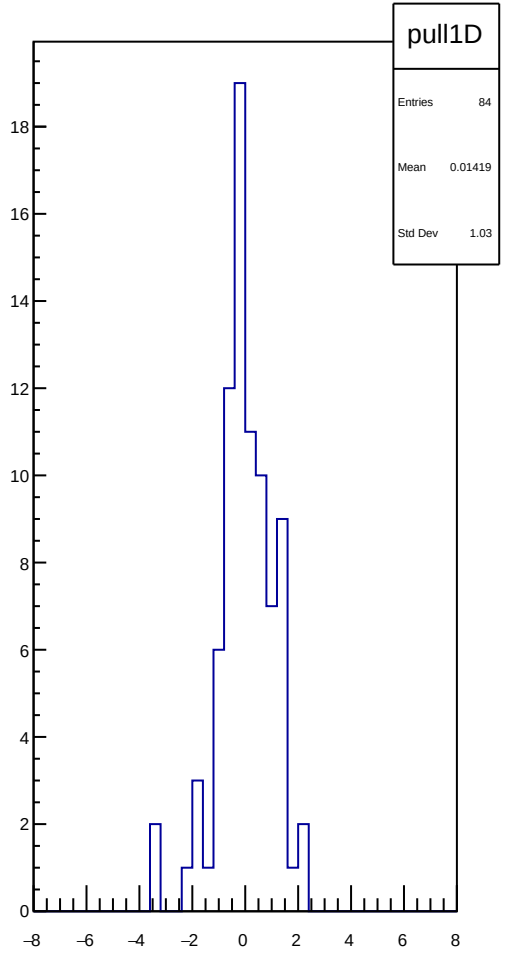

reg_asym_sam2_rms vs run
χ^2 / ndf 631.2 / 83
p0 246 ± 0.1929
270
265
260
255
250
245
240
235

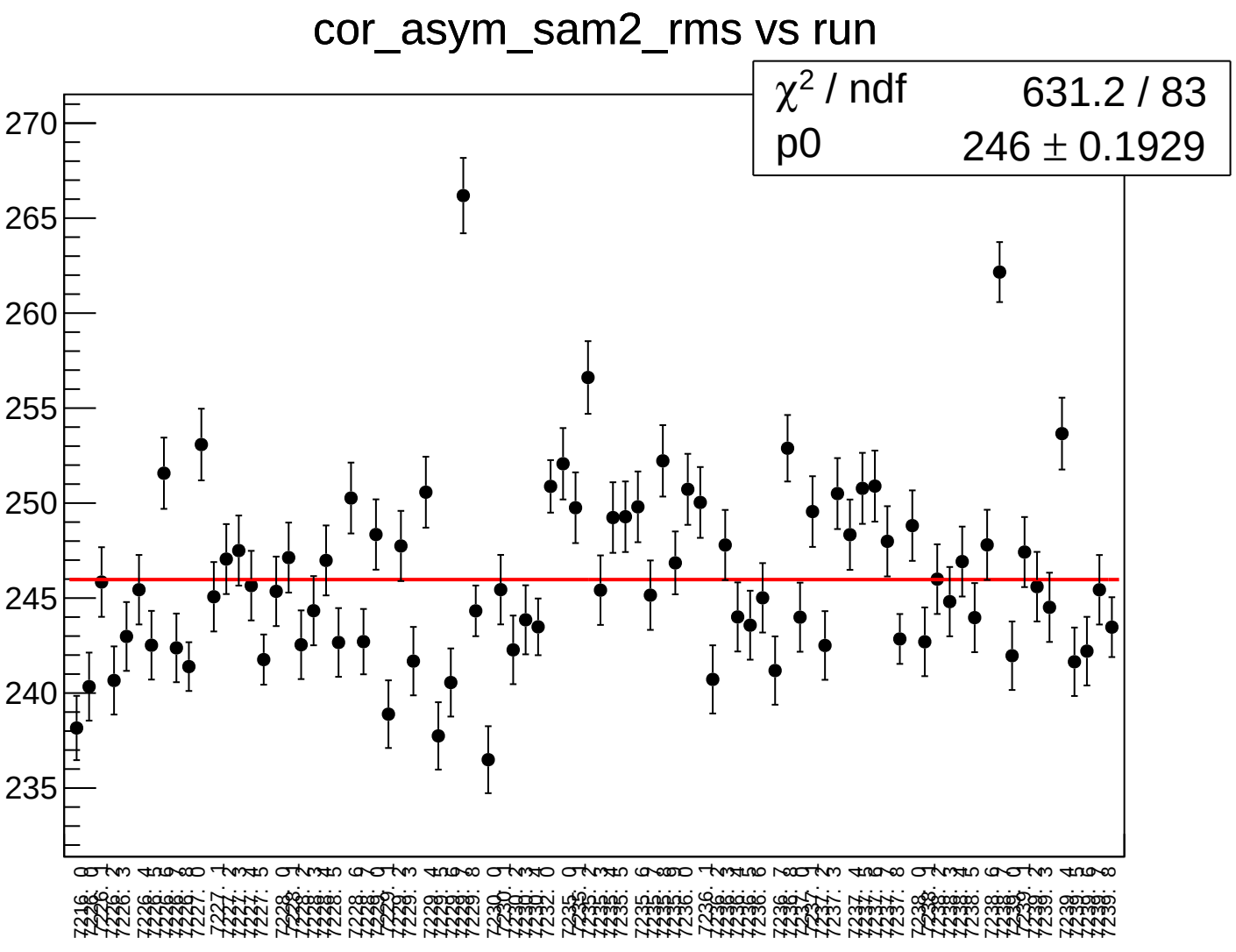

asym_sam2_reg_correction_mean vs run
χ² / ndf 69.34 / 83
p0 −4321 ± 2034
pull
Entries 84
Mean −147.6
Std Dev 0

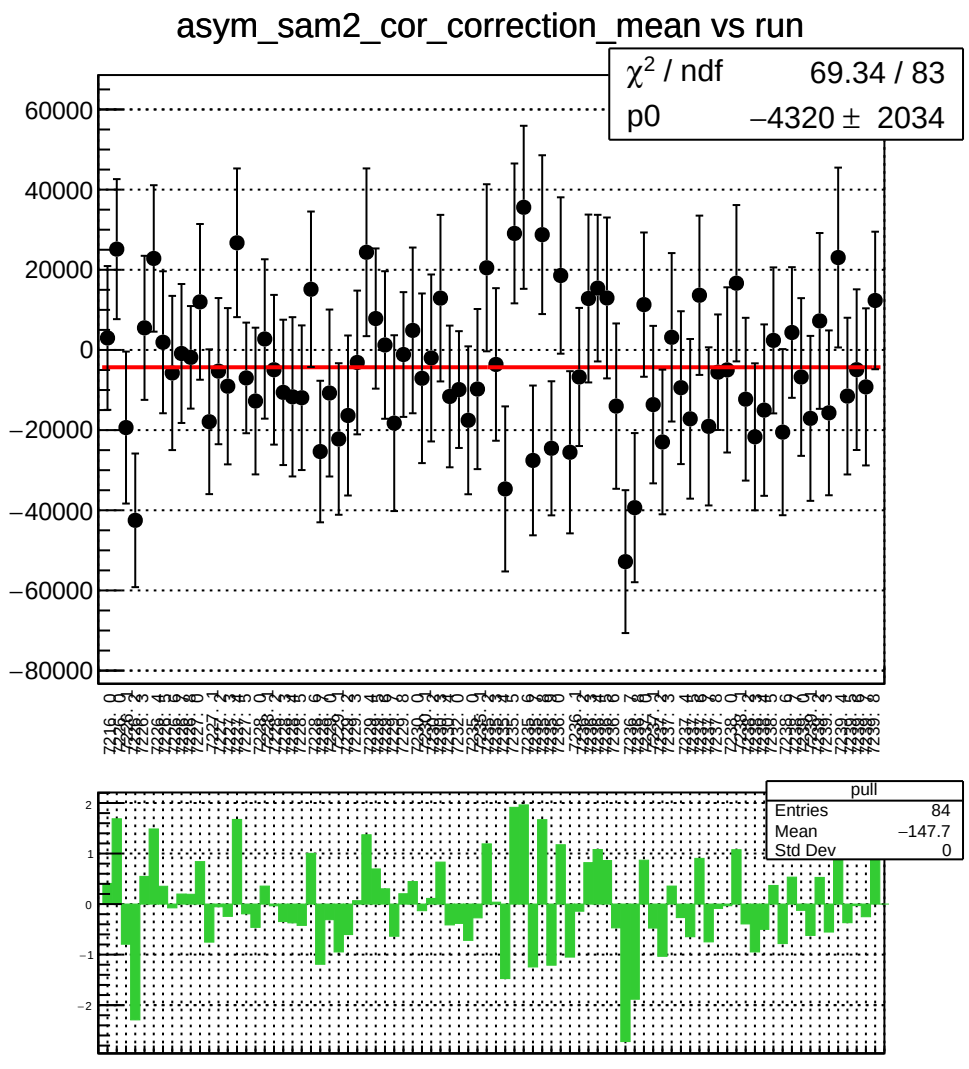

pull1D
Entries 84
Mean 0.007534
Std Dev 0.9085

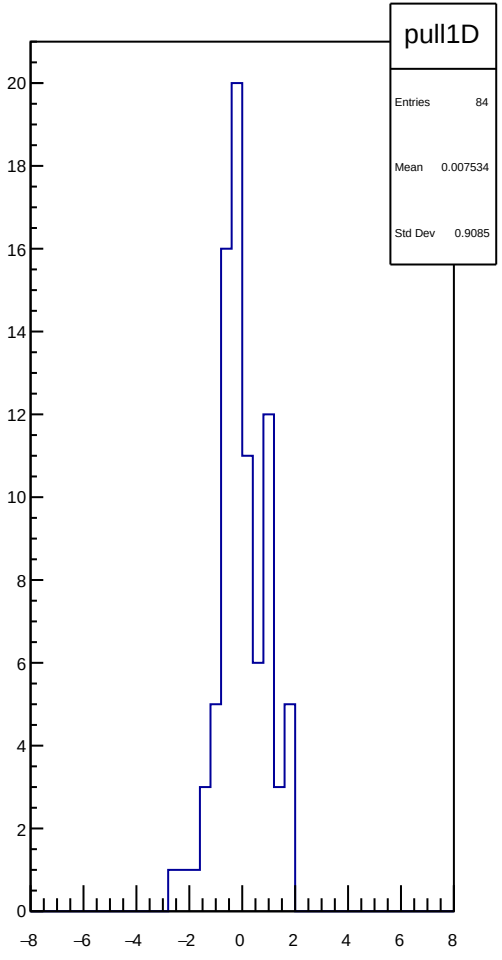

asym_sam2_reg_correction_rms vs run
χ² / ndf 6689 / 83
p0 1831 ± 1.439
2200
2100
2000
1900
1800
1700
1600

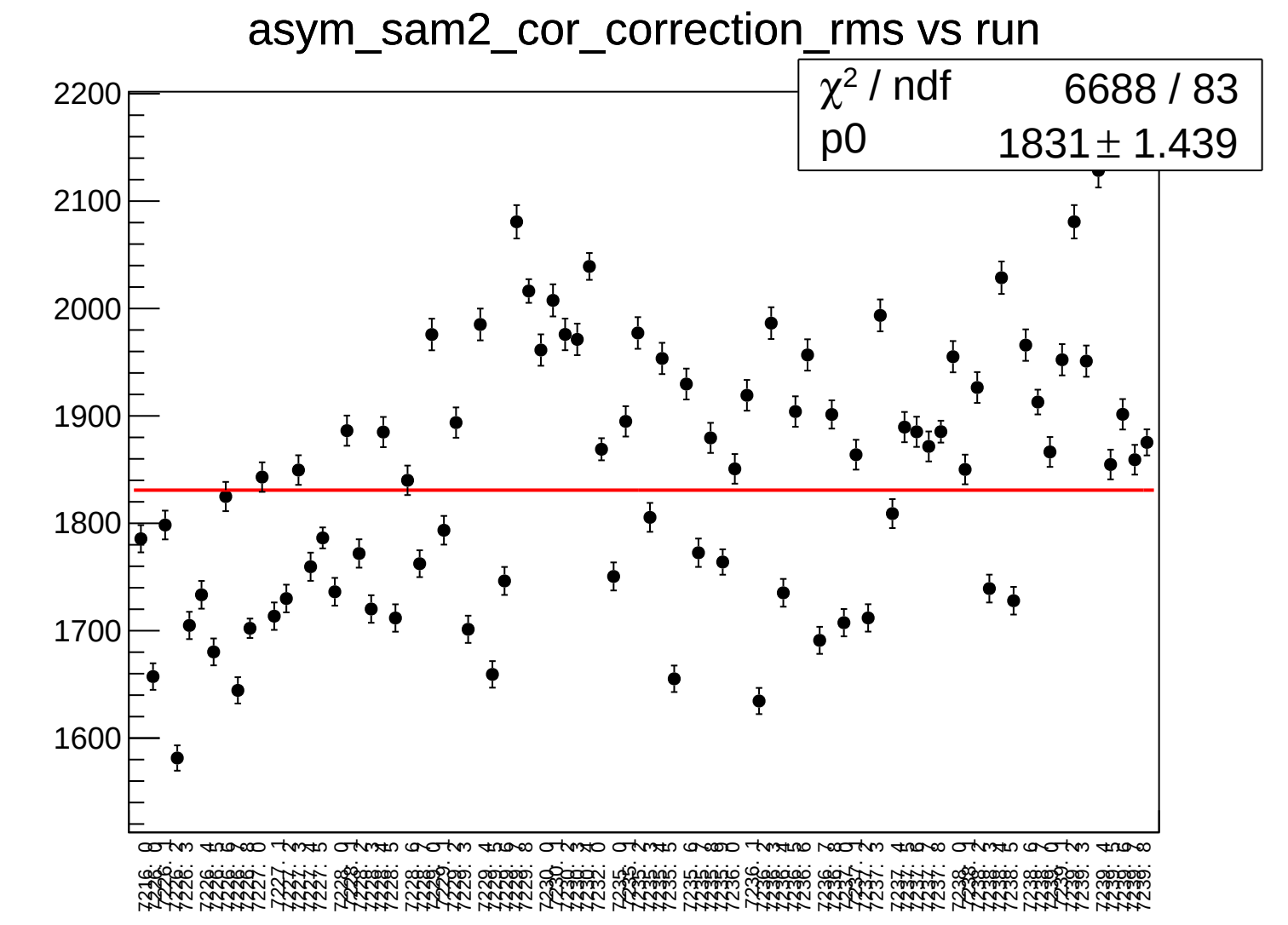

cor_asym_sam2_mean vs run
χ² / ndf 89.09 / 83
p0 626 ± 272.8
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 362.1
Std Dev 0
2
1
0
−1
−2
−3

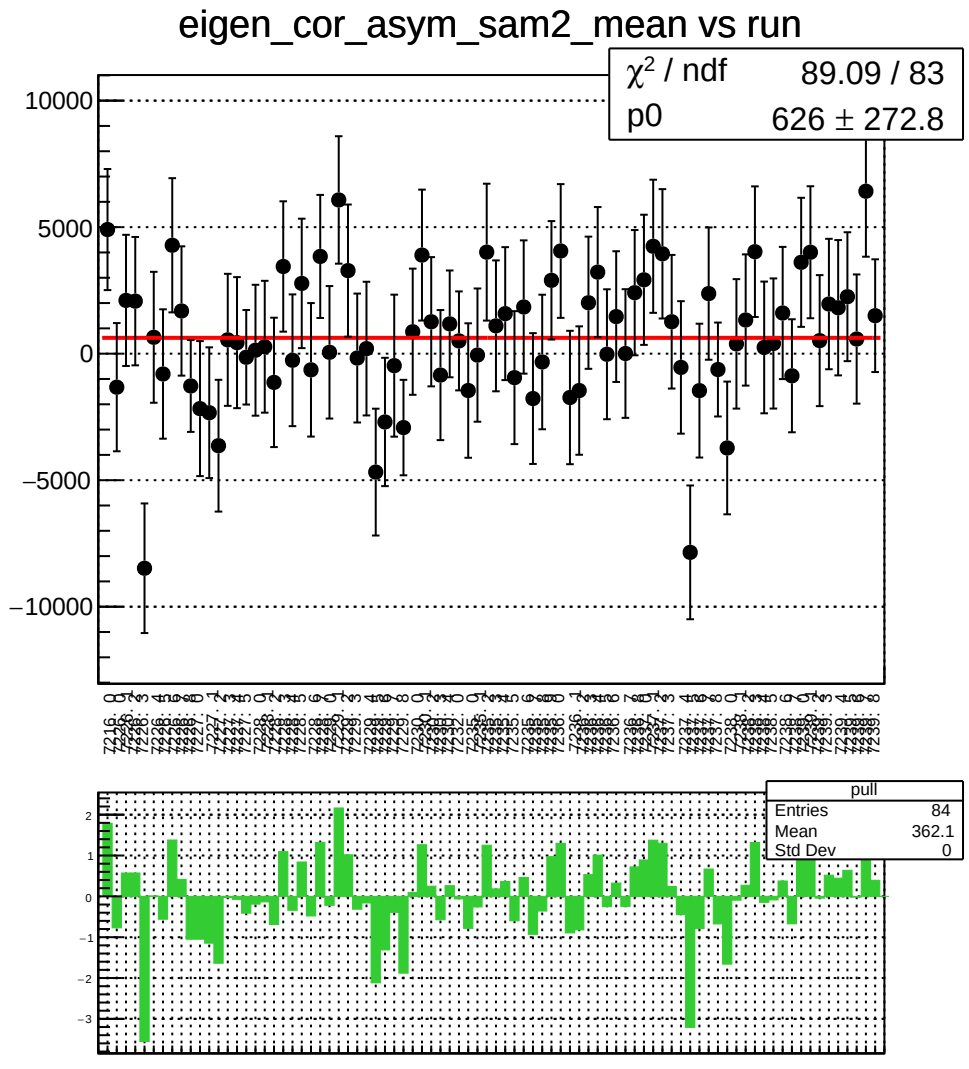

pull1D
Entries 84
Mean 0.01419
Std Dev 1.03
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

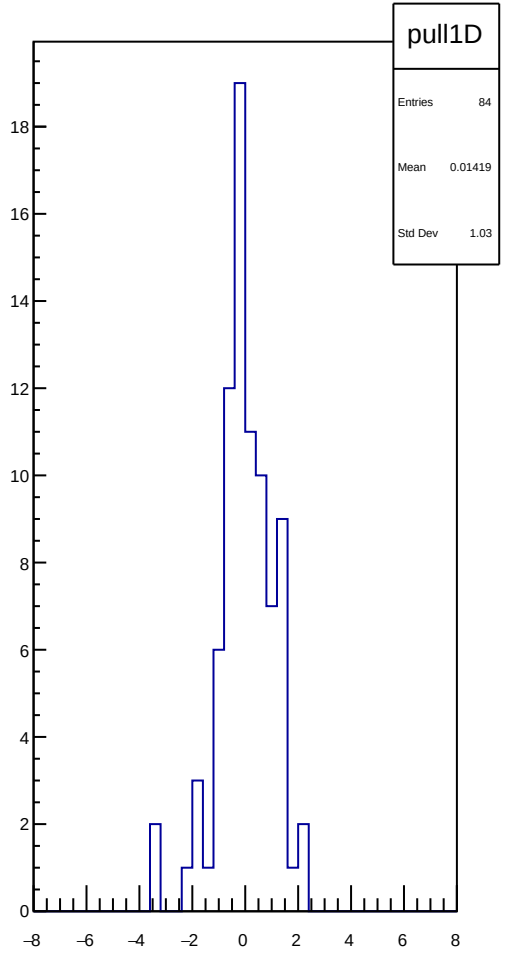

cor_asym_sam2_rms vs run
χ^2 / ndf 631.2 / 83
p0 246 ± 0.1929
270
265
260
255
250
245
240
235

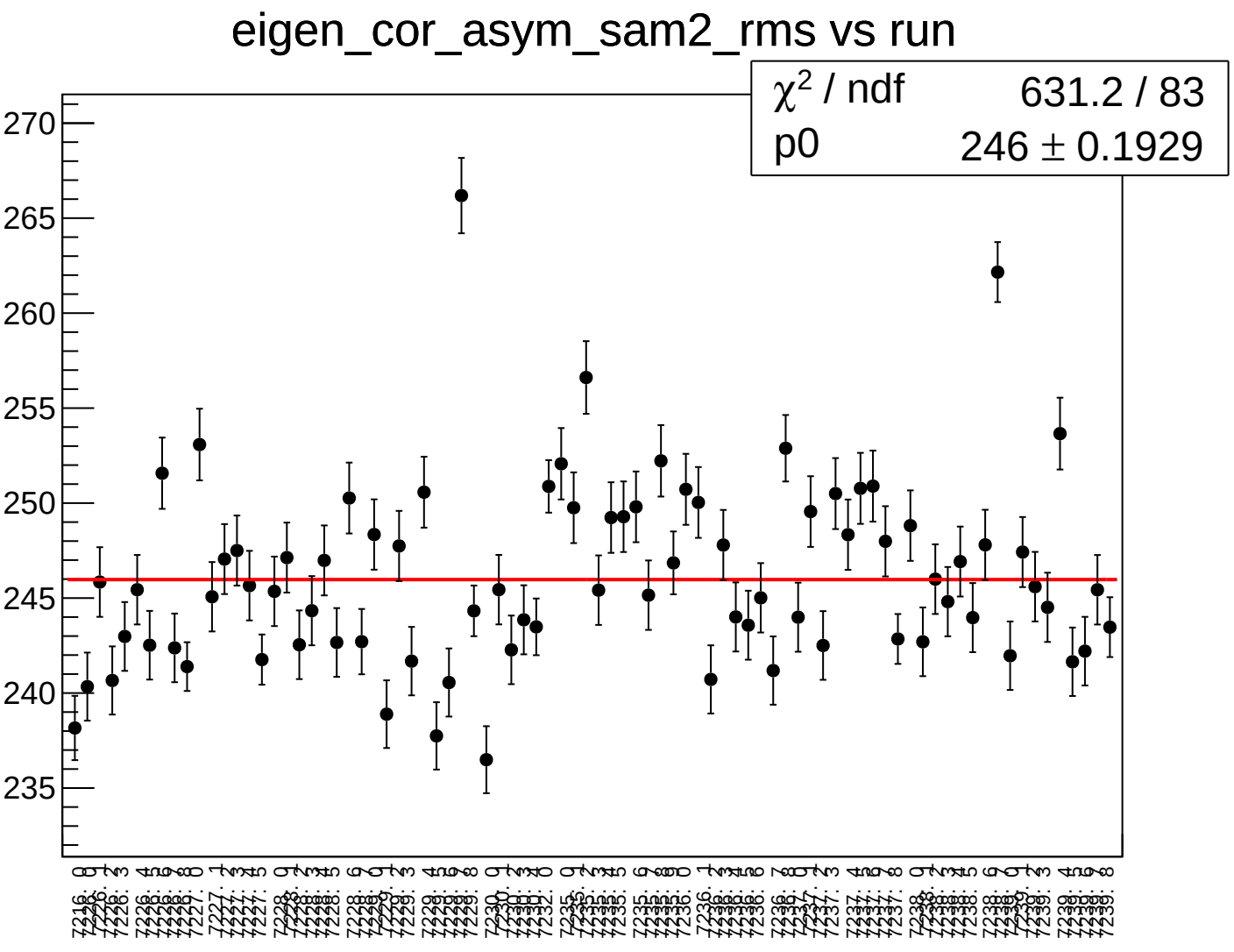

asym_sam2_cor_correction_mean vs run
χ² / ndf 69.34 / 83
p0 −4320 ± 2034
pull
Entries 84
Mean −147.7
Std Dev 0

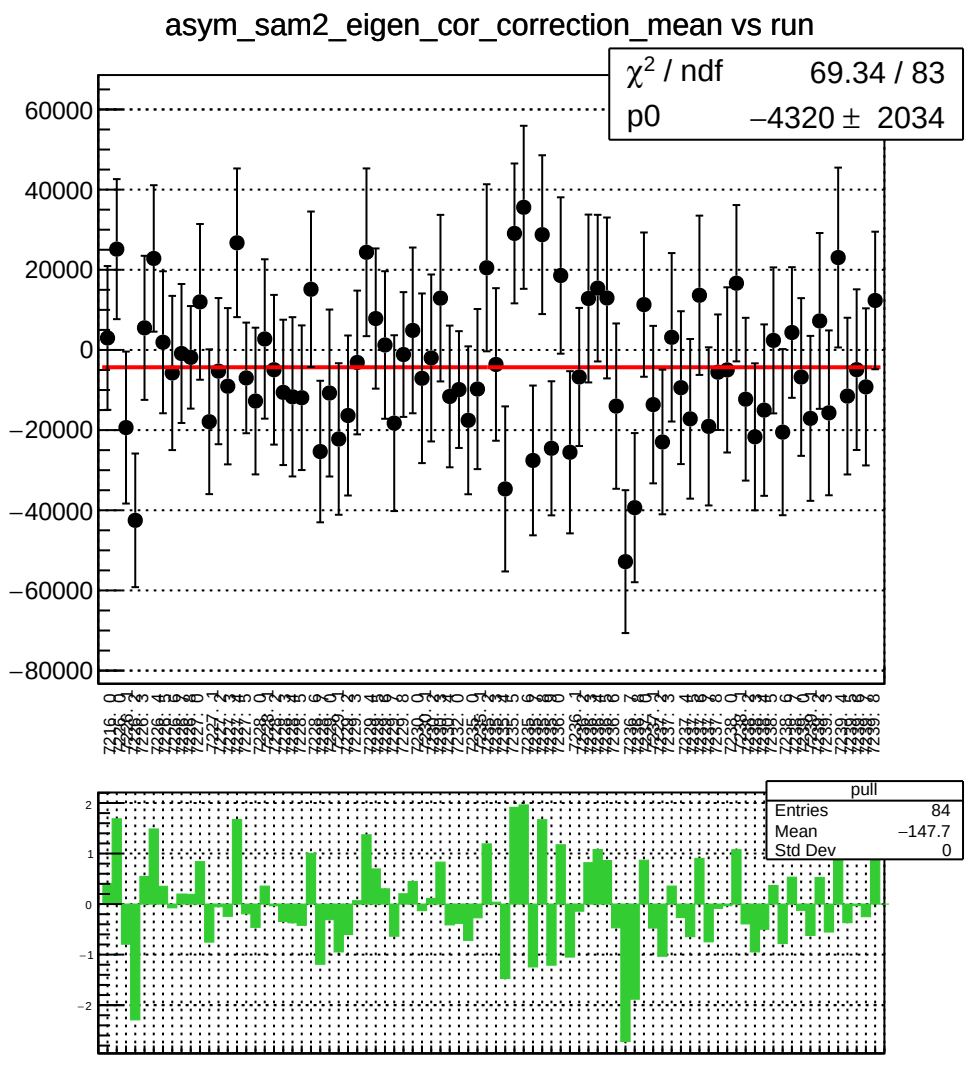

pull1D
Entries 84
Mean 0.007534
Std Dev 0.9085

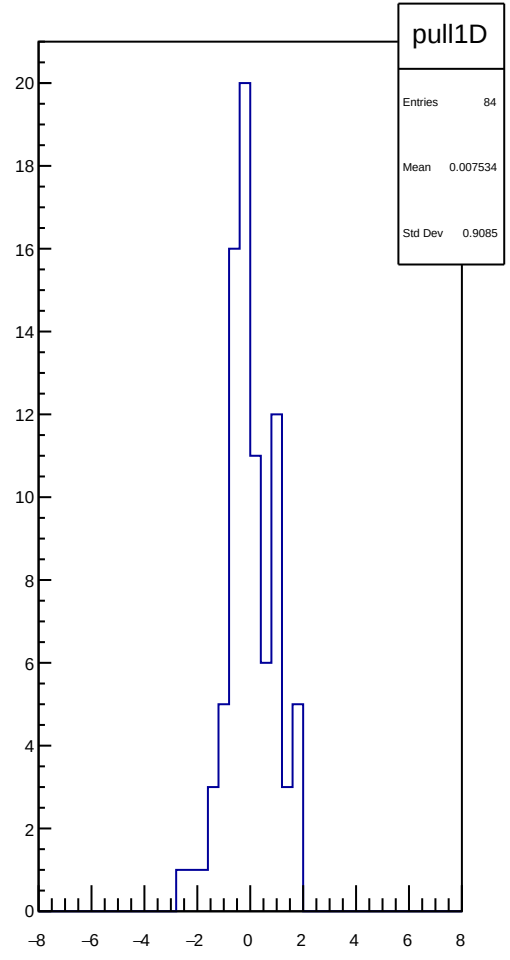

asym_sam2_cor_correction_rms vs run
χ² / ndf 6688 / 83
p0 1831 ± 1.439
2200
2100
2000
1900
1800
1700
1600

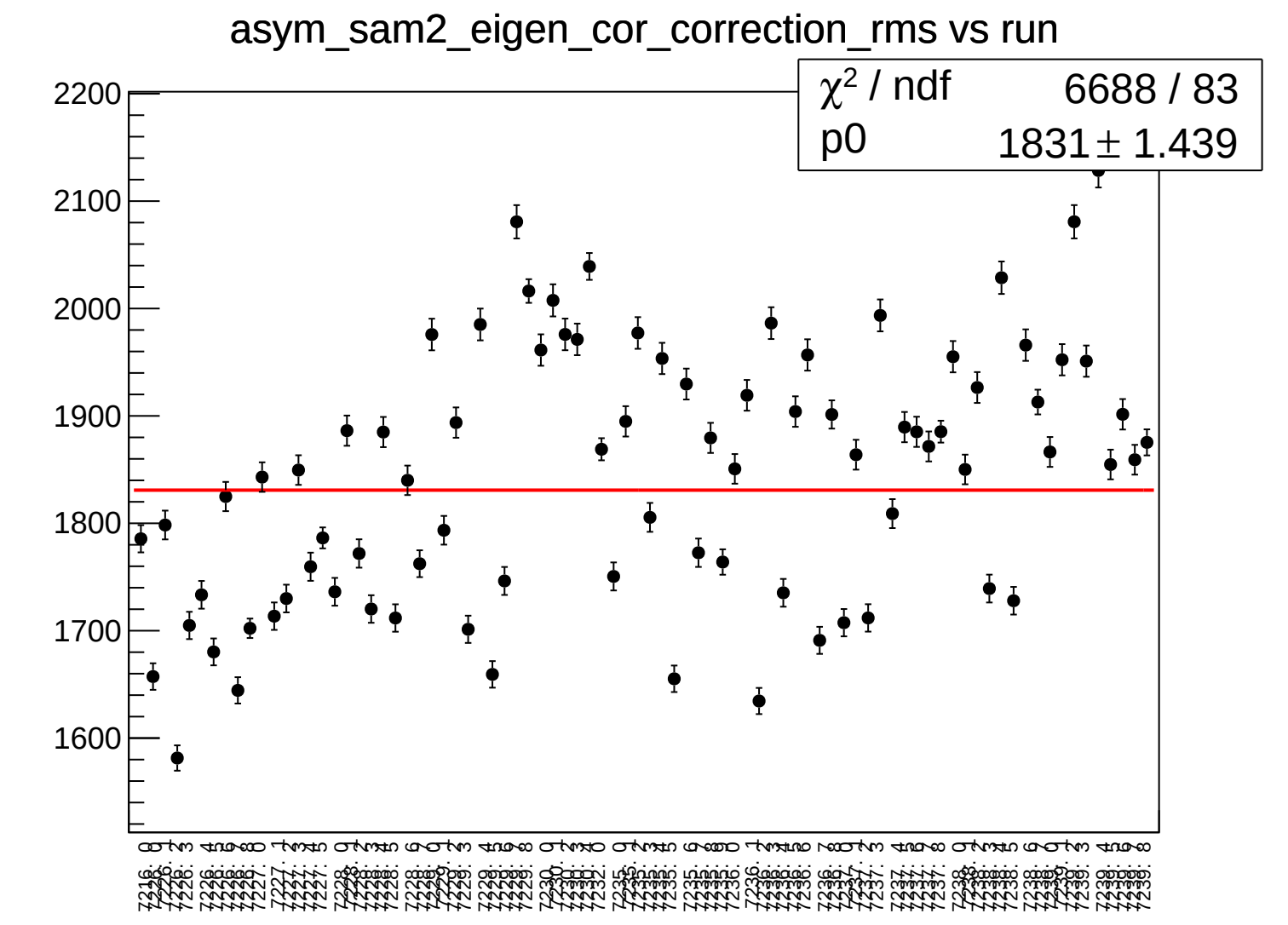

eigen_cor_asym_sam2_mean vs run
χ² / ndf 89.09 / 83
p0 626 ± 272.8
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 362.1
Std Dev 0
2
1
0
−1
−2
−3

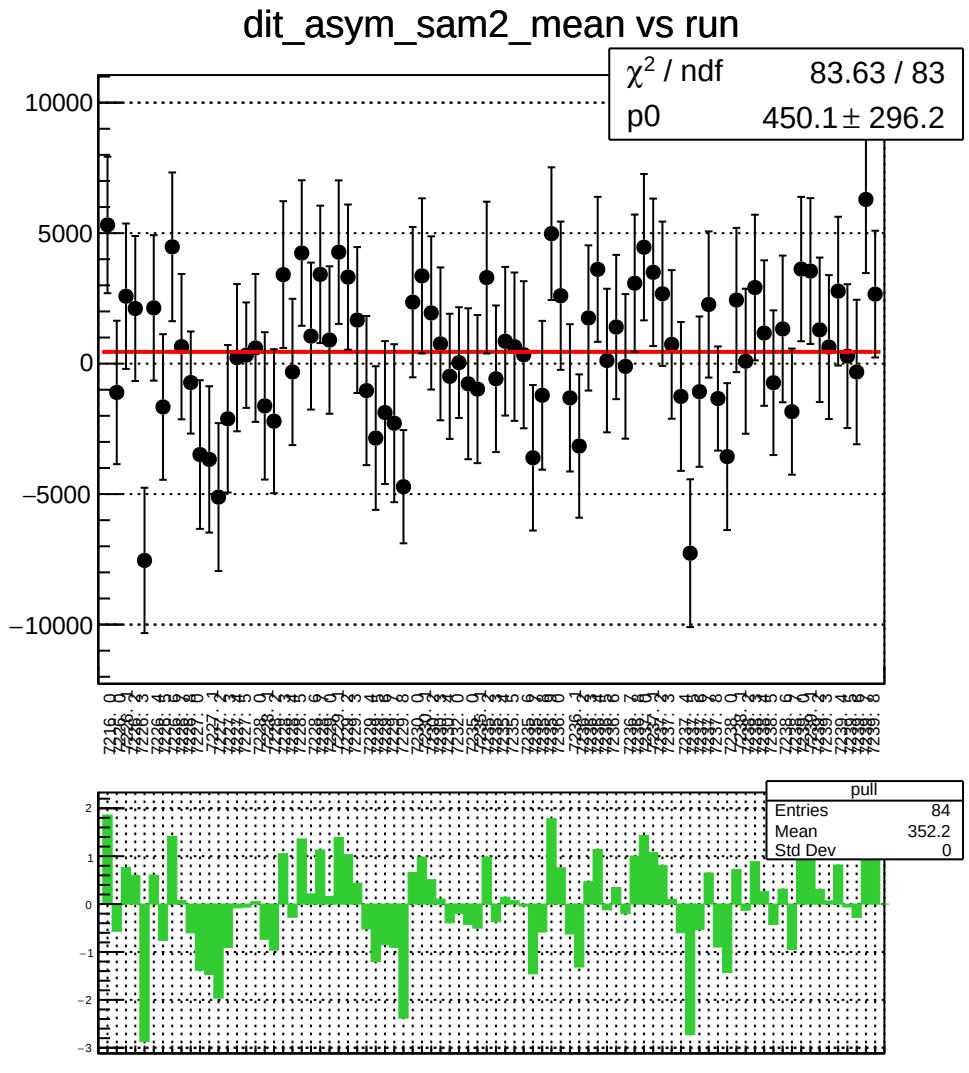

pull1D
Entries 84
Mean 0.01419
Std Dev 1.03
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

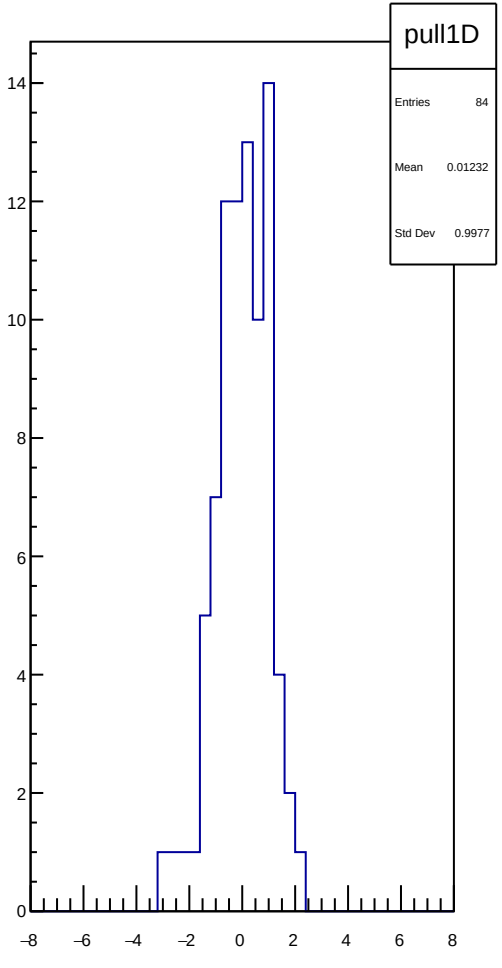

eigen_cor_asym_sam2_rms vs run
χ^2 / ndf 631.2 / 83
p0 246 ± 0.1929
270
265
260
255
250
245
240
235

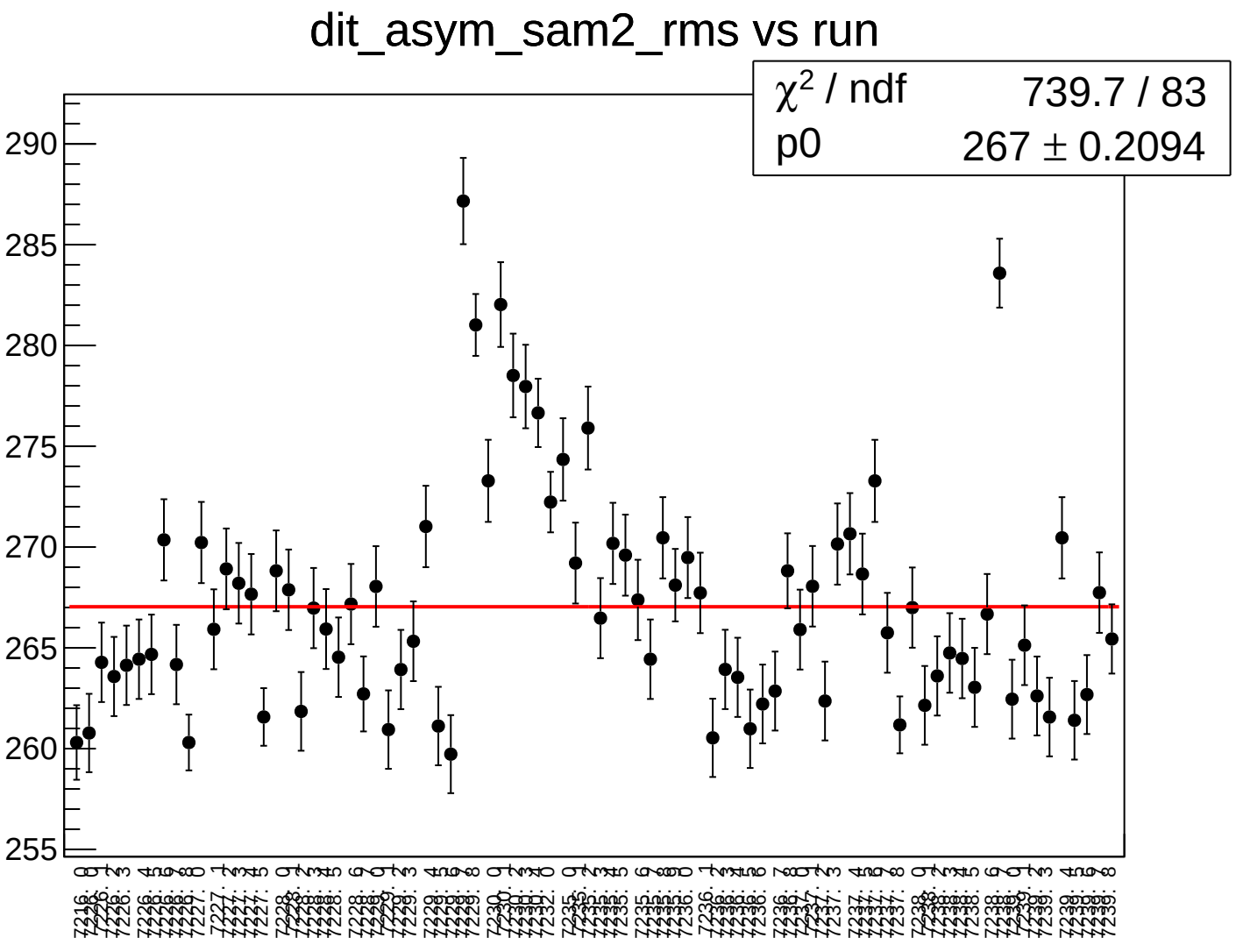

asym_sam2_eigen_cor_correction_mean vs run
χ² / ndf 69.34 / 83
p0 −4320 ± 2034
pull
Entries 84
Mean −147.7
Std Dev 0

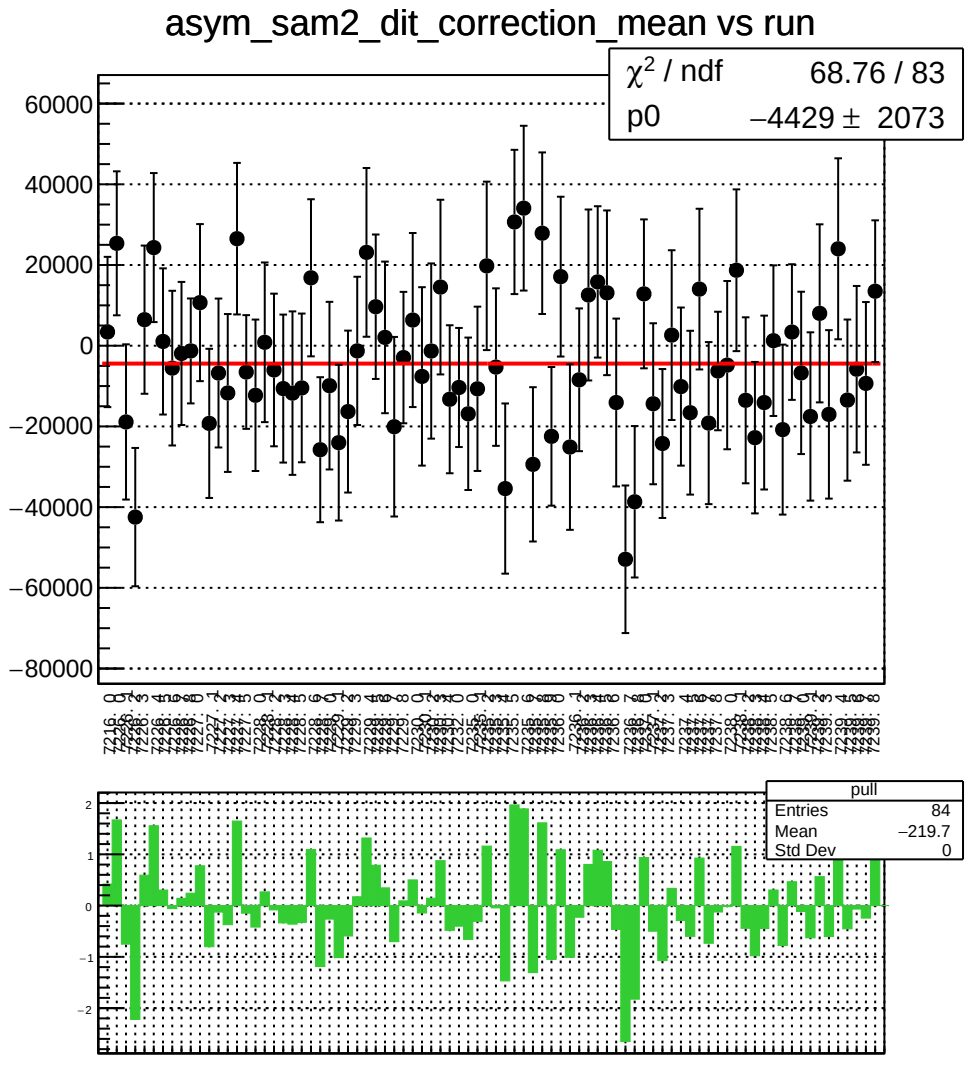

pull1D
Entries 84
Mean 0.007534
Std Dev 0.9085

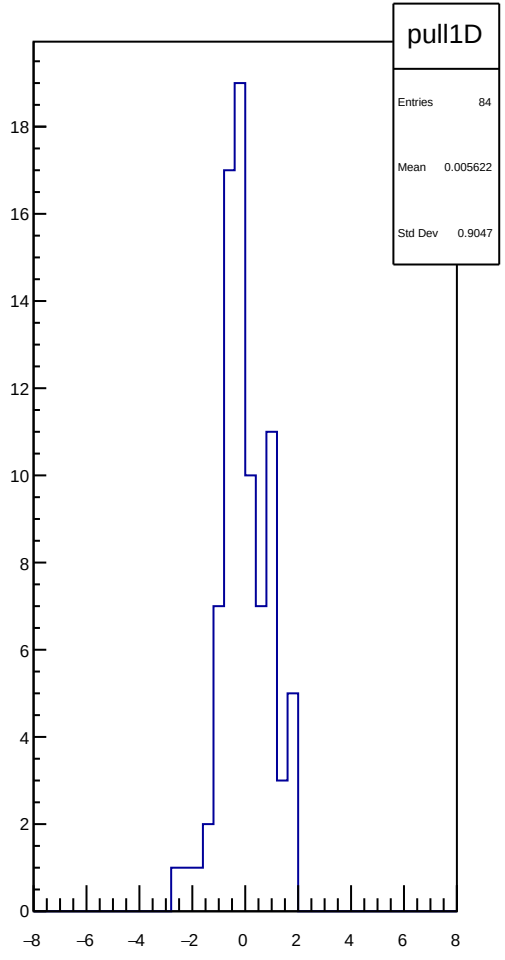

asym_sam2_eigen_cor_correction_rms vs run
χ^2 / ndf 6688 / 83
p0 1831 ± 1.439
2200
2100
2000
1900
1800
1700
1600

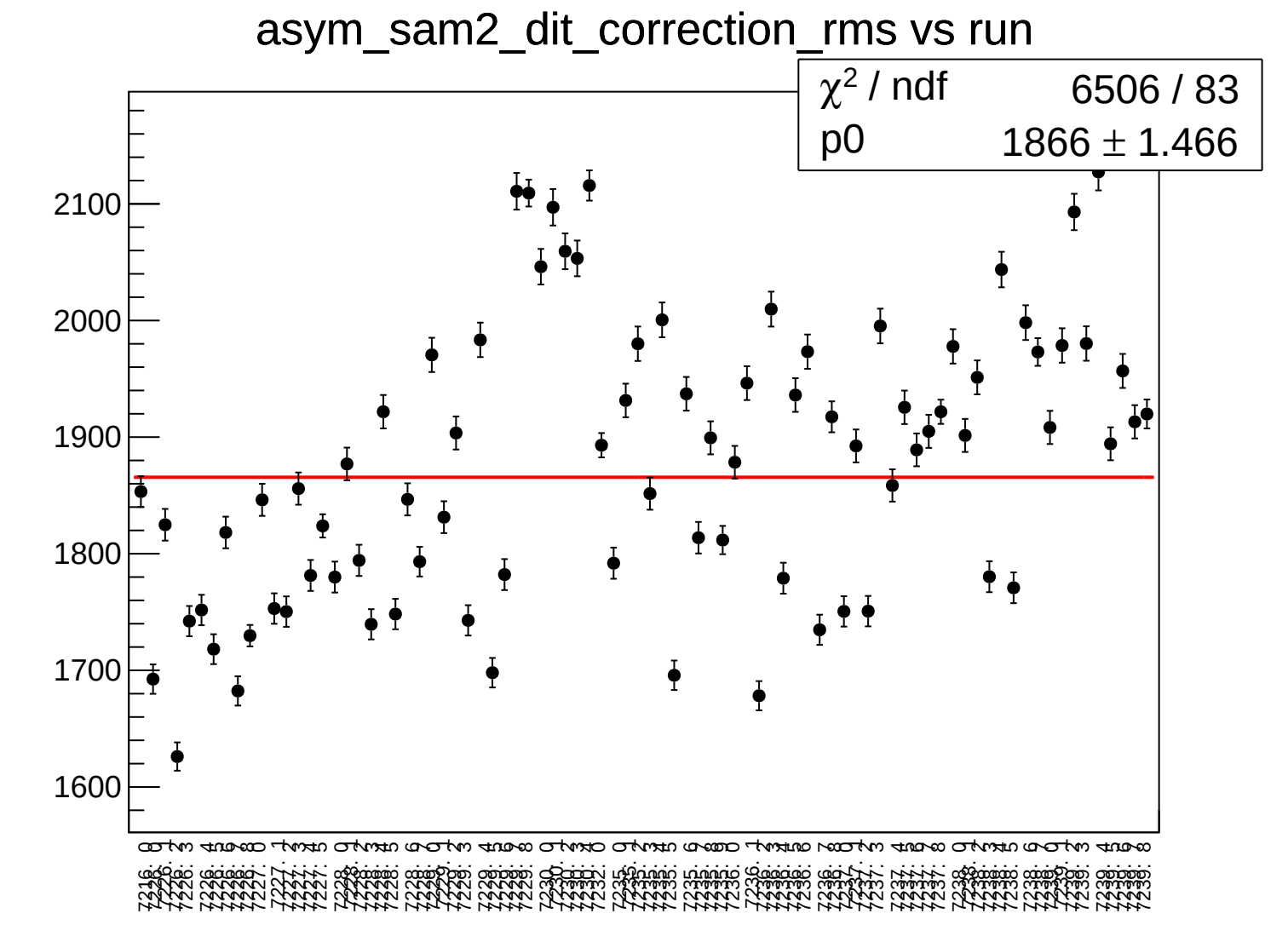

dit_asym_sam2_mean vs run
χ² / ndf 83.63 / 83
p0 450.1 ± 296.2
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 352.2
Std Dev 0
2
1
0
−1
−2
−3

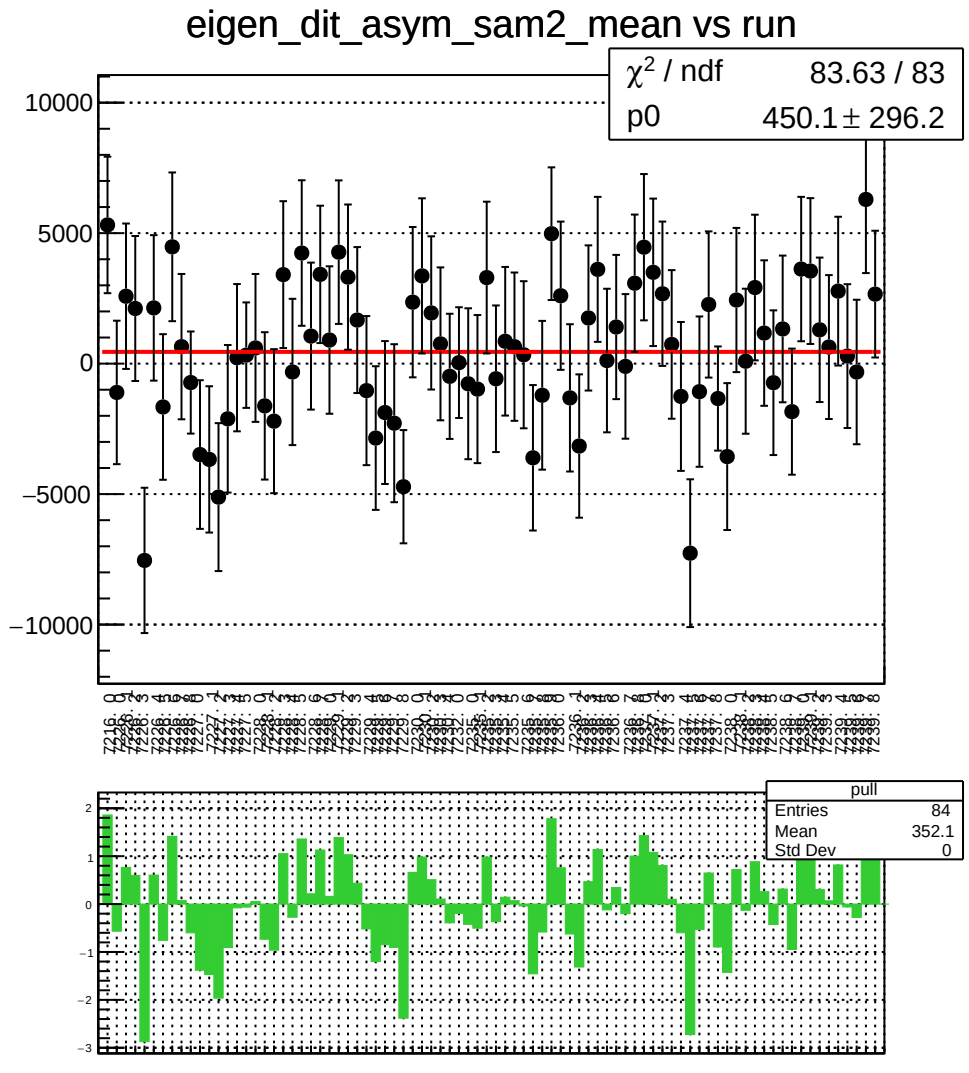

pull1D
Entries 84
Mean 0.01232
Std Dev 0.9977
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

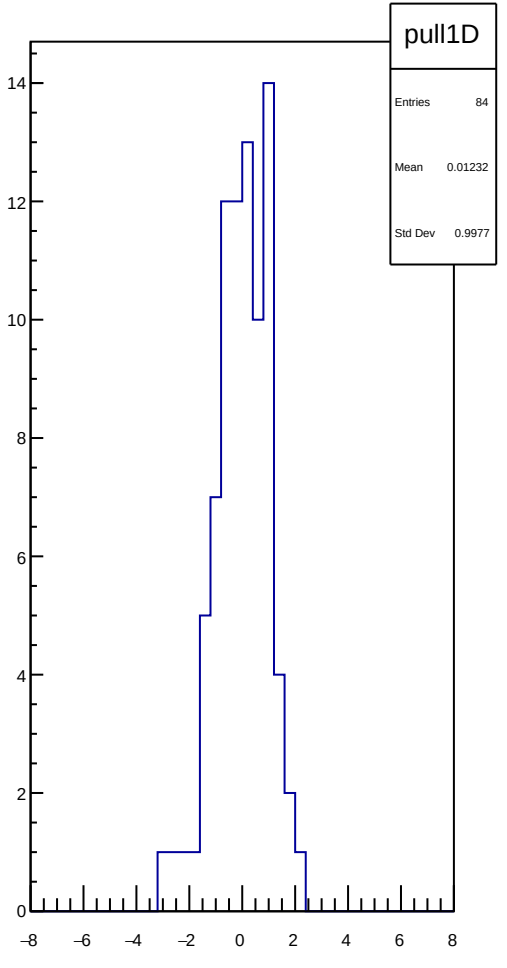

dit_asym_sam2_rms vs run
χ^2 / ndf 739.7 / 83
p0 267 ± 0.2094
290
285
280
275
270
265
260
255

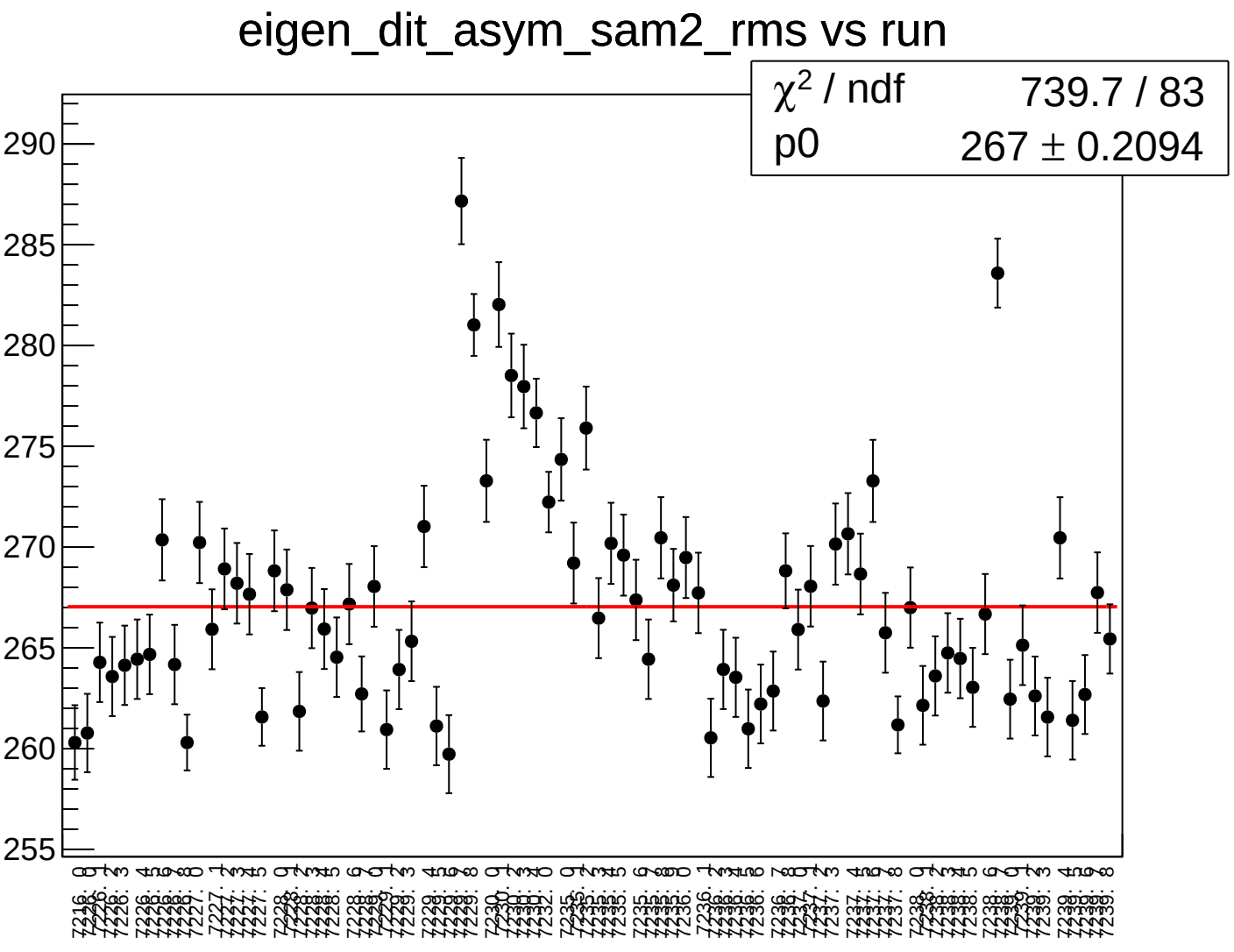

asym_sam2_dit_correction_mean vs run
χ² / ndf 68.76 / 83
p0 −4429 ± 2073
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean −219.7
Std Dev 0
2
1
0
−1
−2

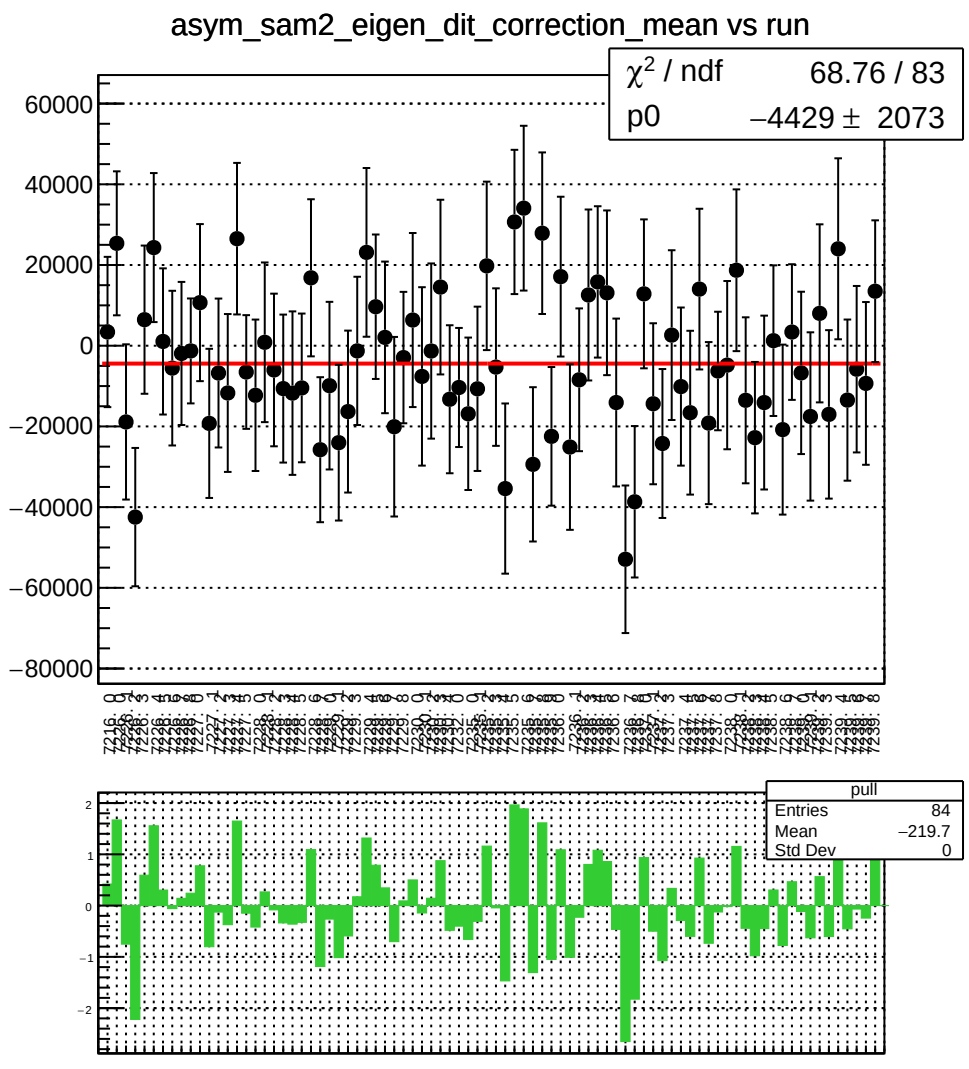

pull1D
Entries 84
Mean 0.005622
Std Dev 0.9047
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

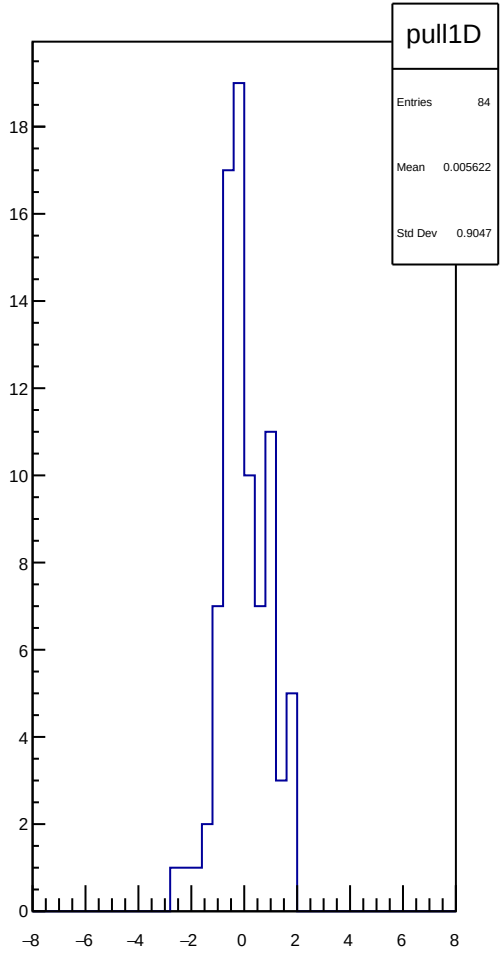

asym_sam2_dit_correction_rms vs run
χ² / ndf 6506 / 83
p0 1866 ± 1.466
2100
2000
1900
1800
1700
1600

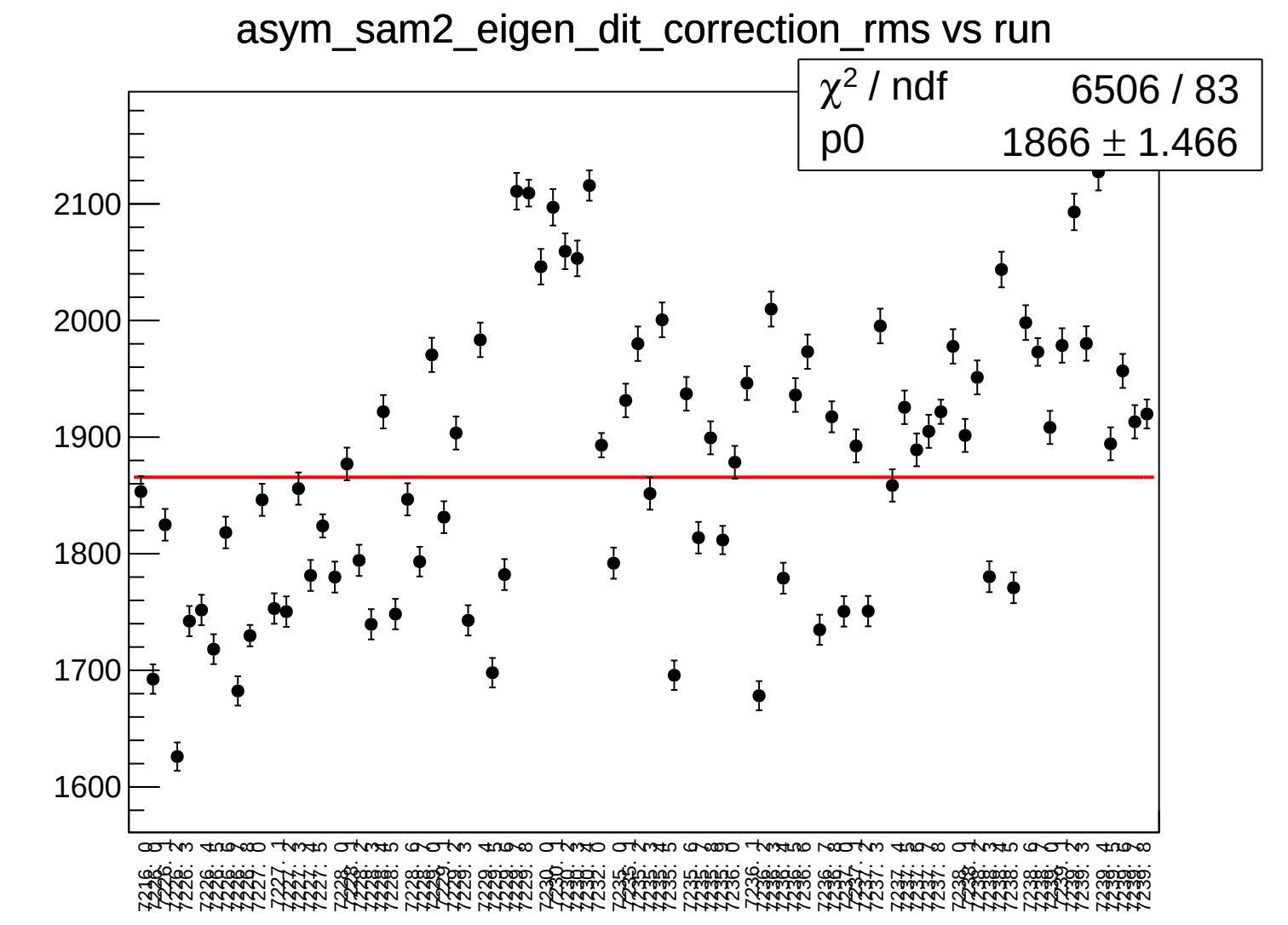

eigen_dit_asym_sam2_mean vs run
χ² / ndf 83.63 / 83
p0 450.1 ± 296.2
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 352.1
Std Dev 0
2
1
0
−1
−2
−3

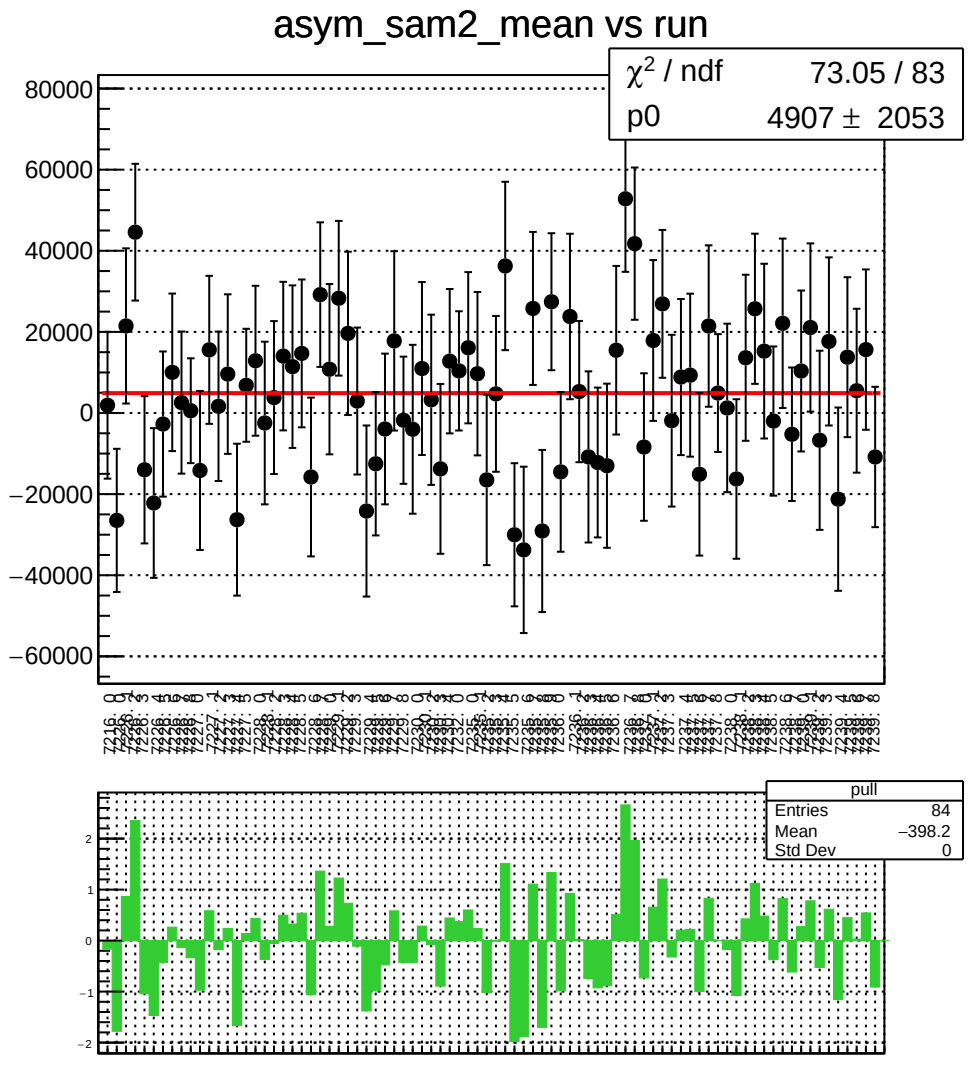

pull1D
Entries 84
Mean 0.01232
Std Dev 0.9977
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

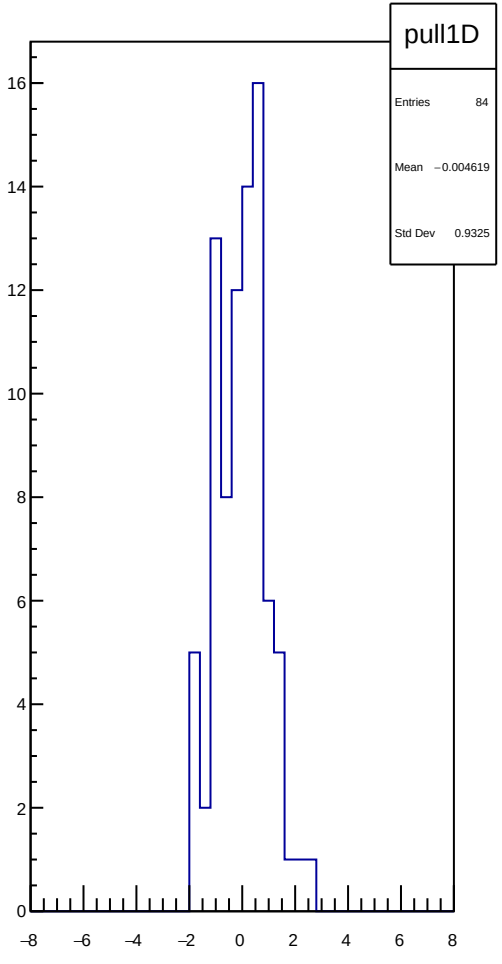

eigen_dit_asym_sam2_rms vs run
χ² / ndf 739.7 / 83
p0 267 ± 0.2094
290
285
280
275
270
265
260
255

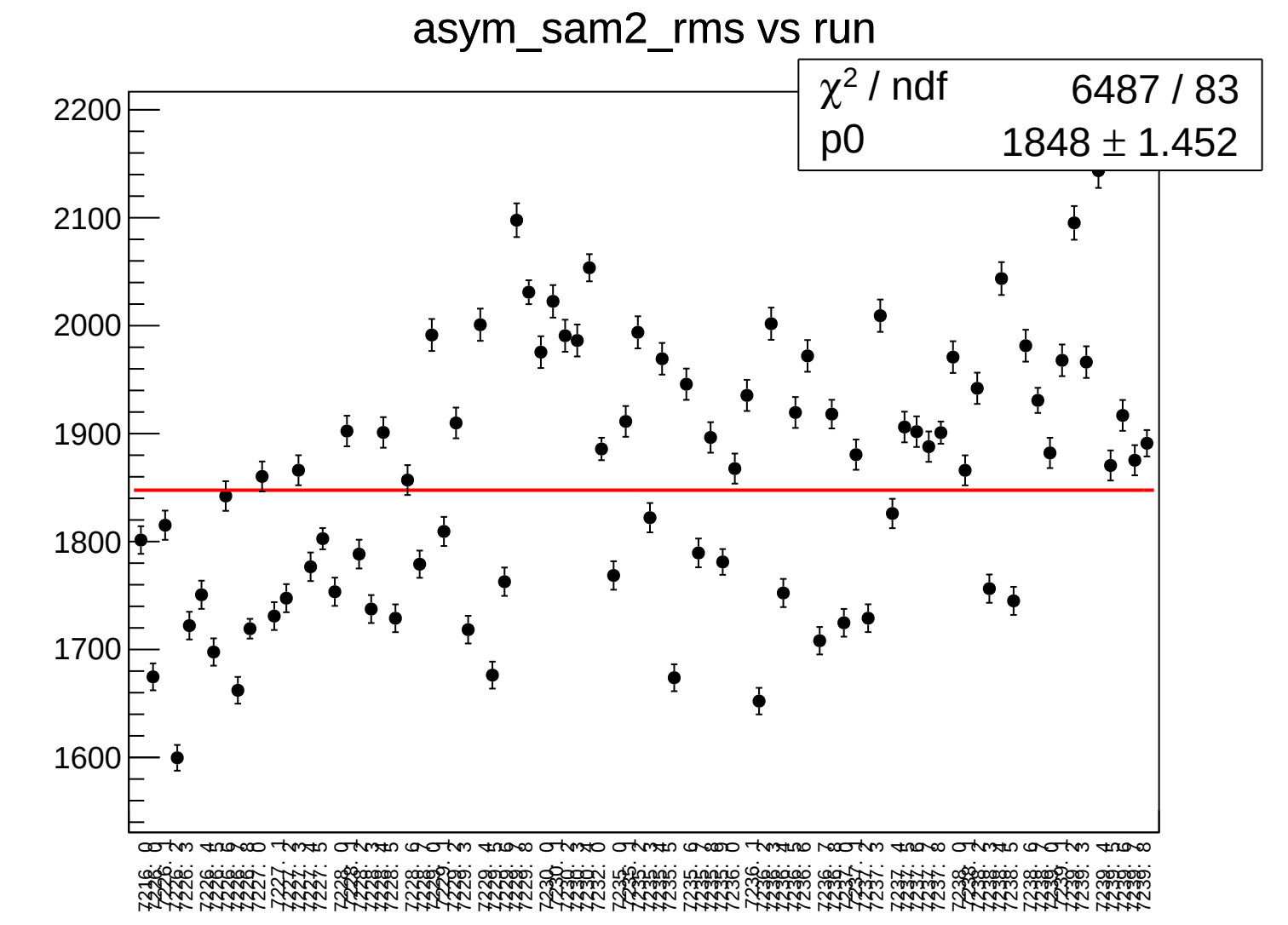

asym_sam2_eigen_dit_correction_mean vs run
χ² / ndf 68.76 / 83
p0 −4429 ± 2073
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean −219.7
Std Dev 0
2
1
0
−1
−2

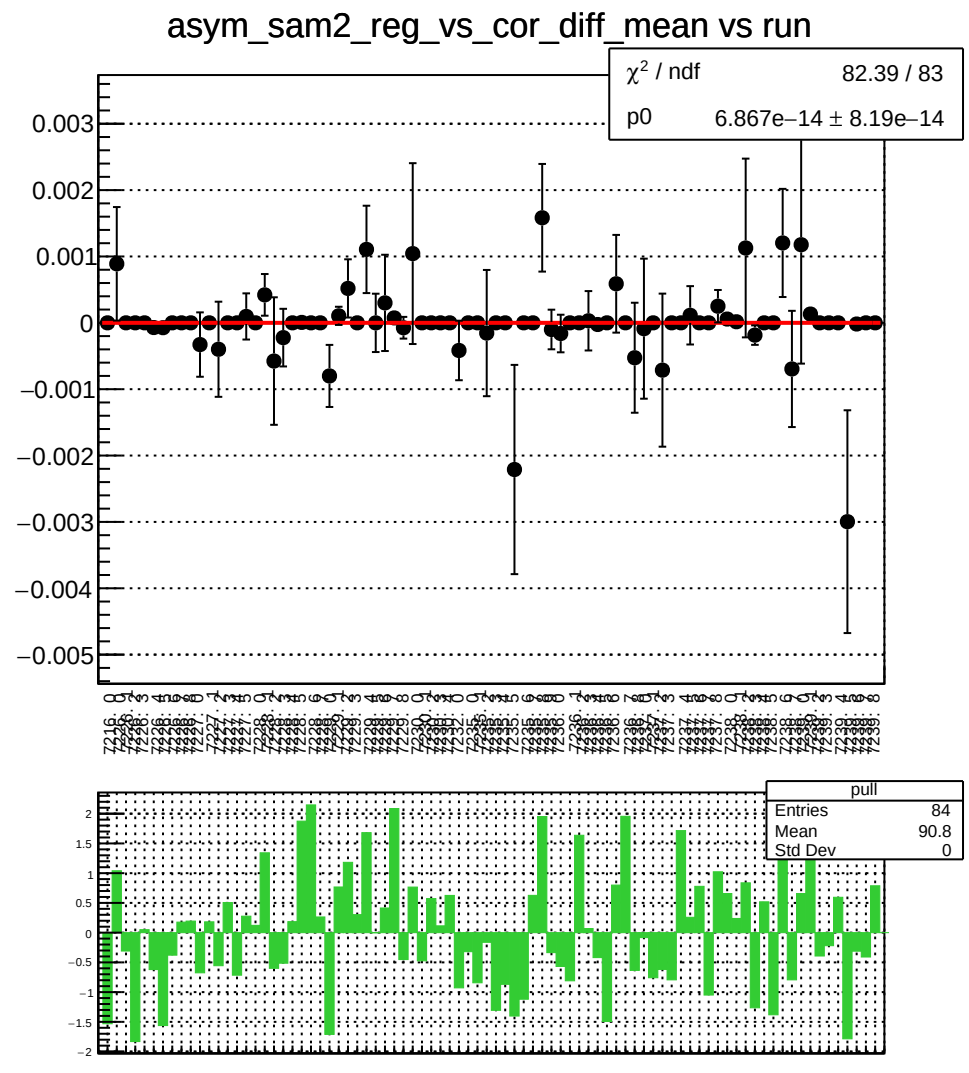

pull1D
Entries 84
Mean 0.005622
Std Dev 0.9047
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

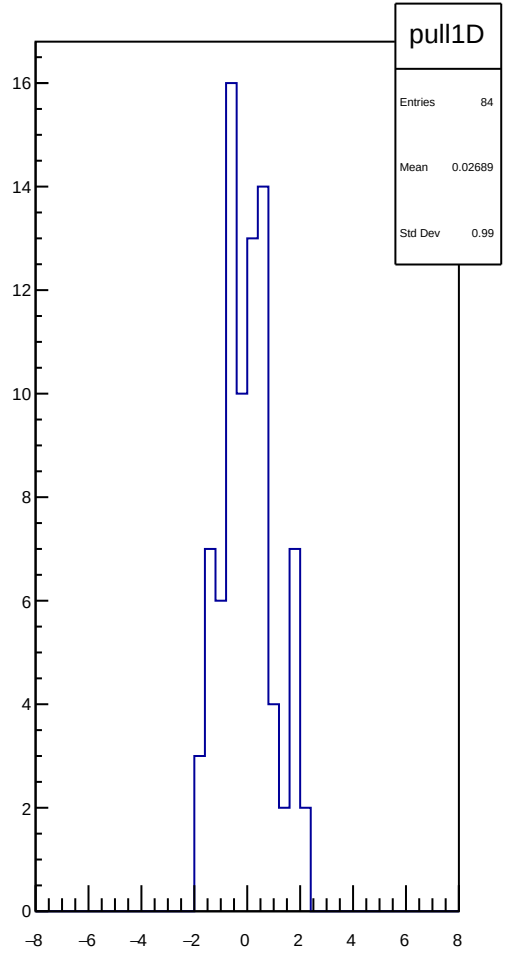

asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 6506 / 83
p0 1866 ± 1.466
2100
2000
1900
1800
1700
1600

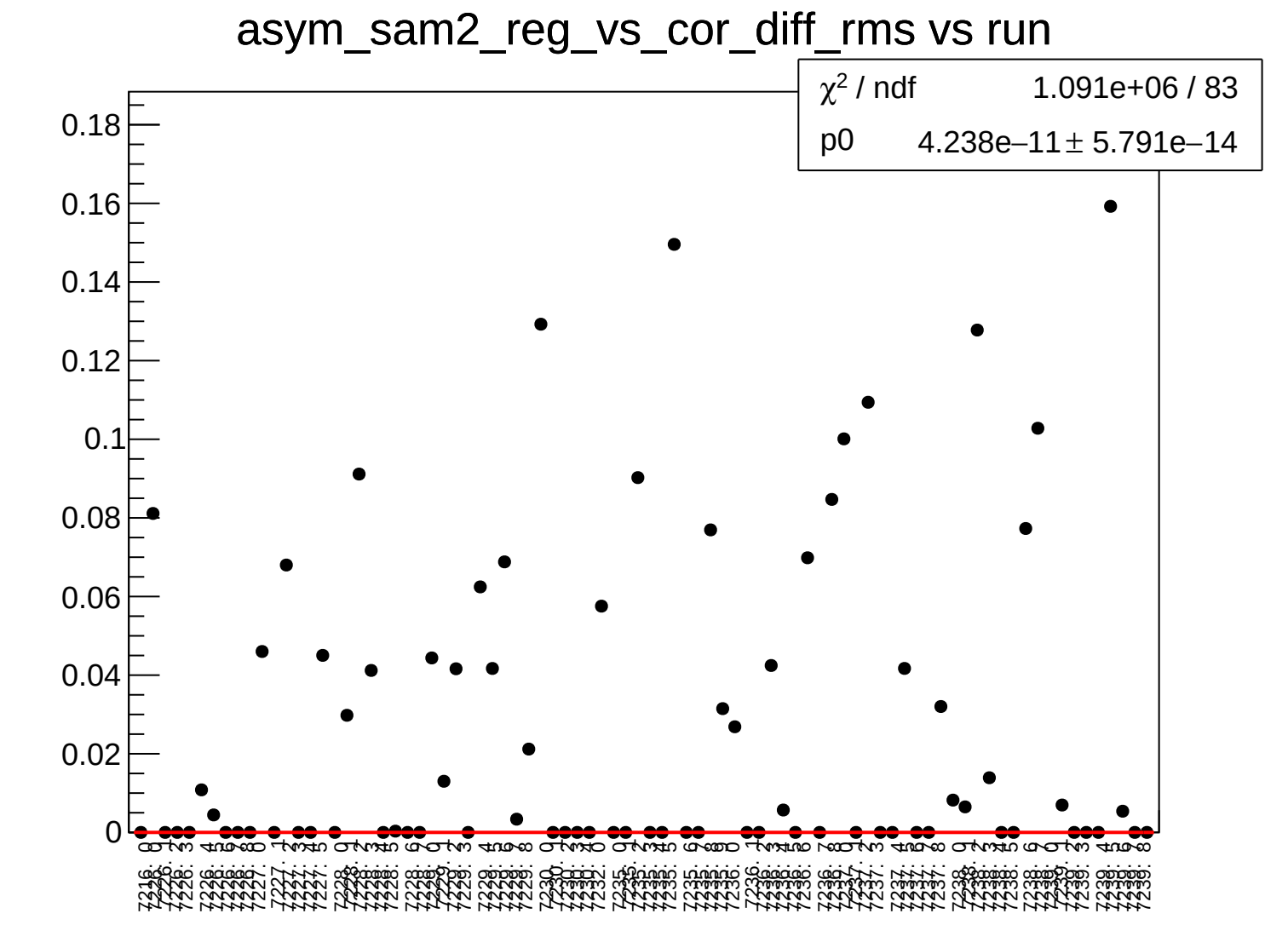

asym_sam2_mean vs run
χ² / ndf 73.05 / 83
p0 4907 ± 2053
pull
Entries 84
Mean −398.2
Std Dev 0

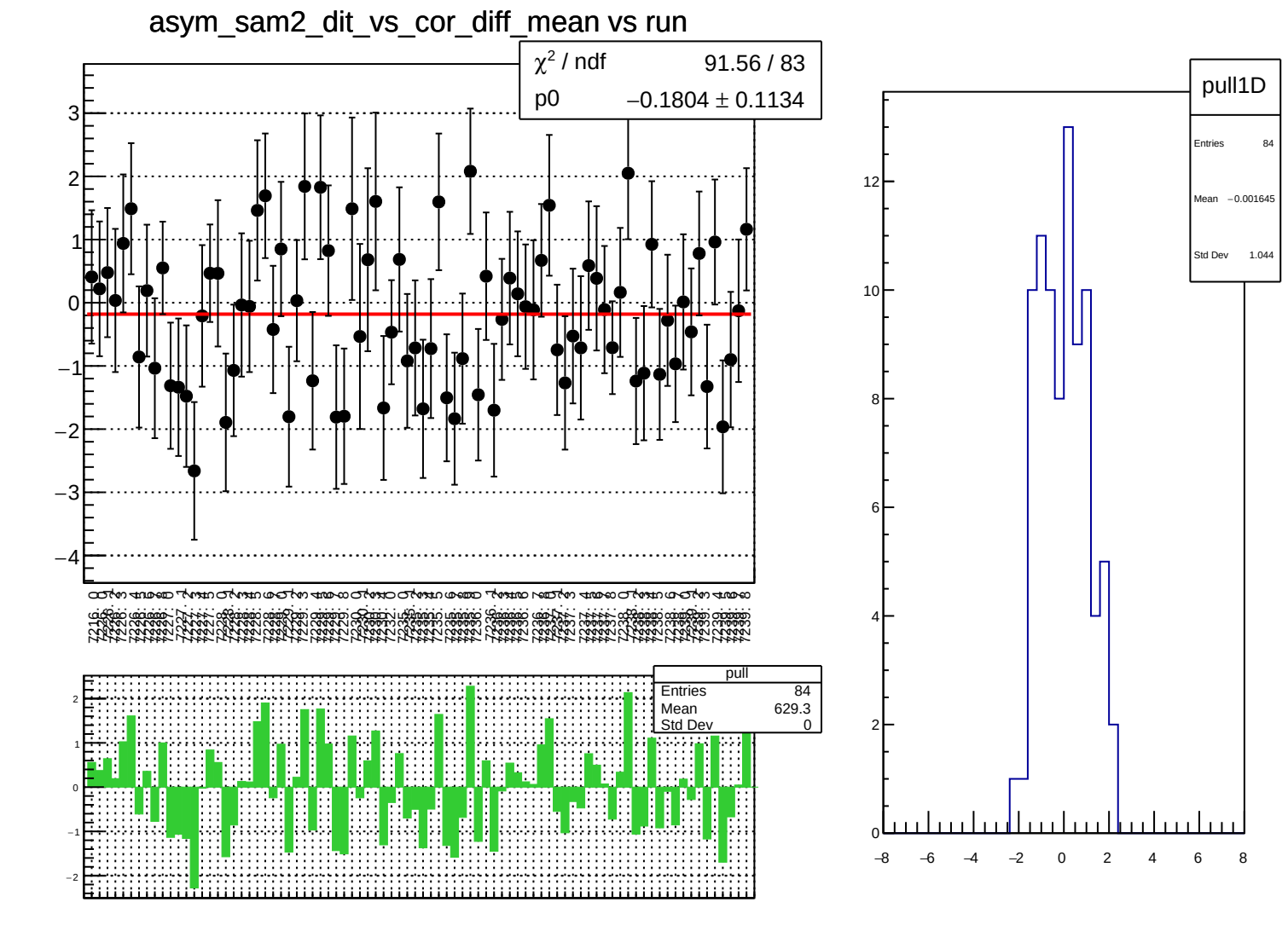

pull1D
Entries 84
Mean −0.004619
Std Dev 0.9325

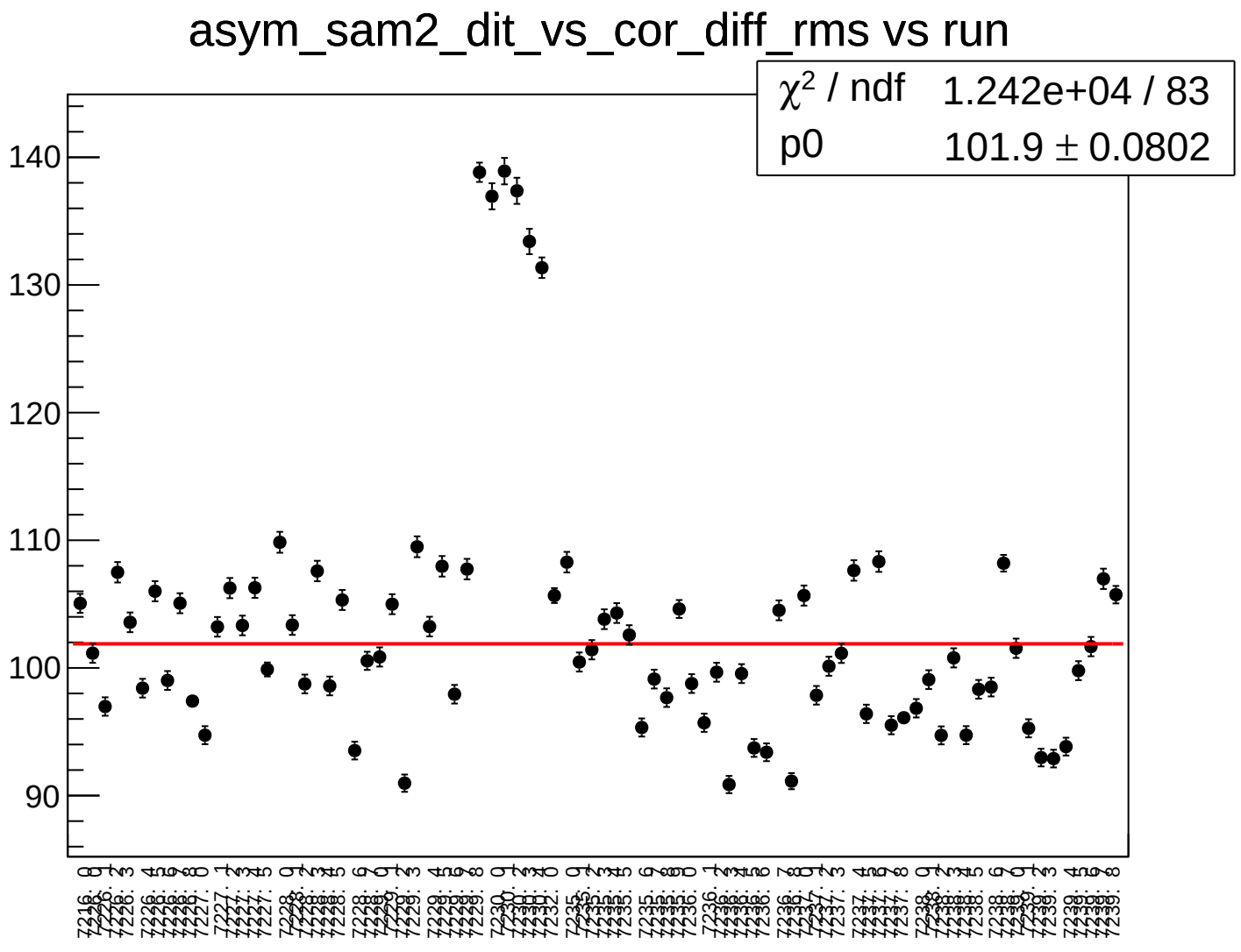

asym_sam2_rms vs run
χ^2 / ndf 6487 / 83
p0 1848 ± 1.452
2200
2100
2000
1900
1800
1700
1600

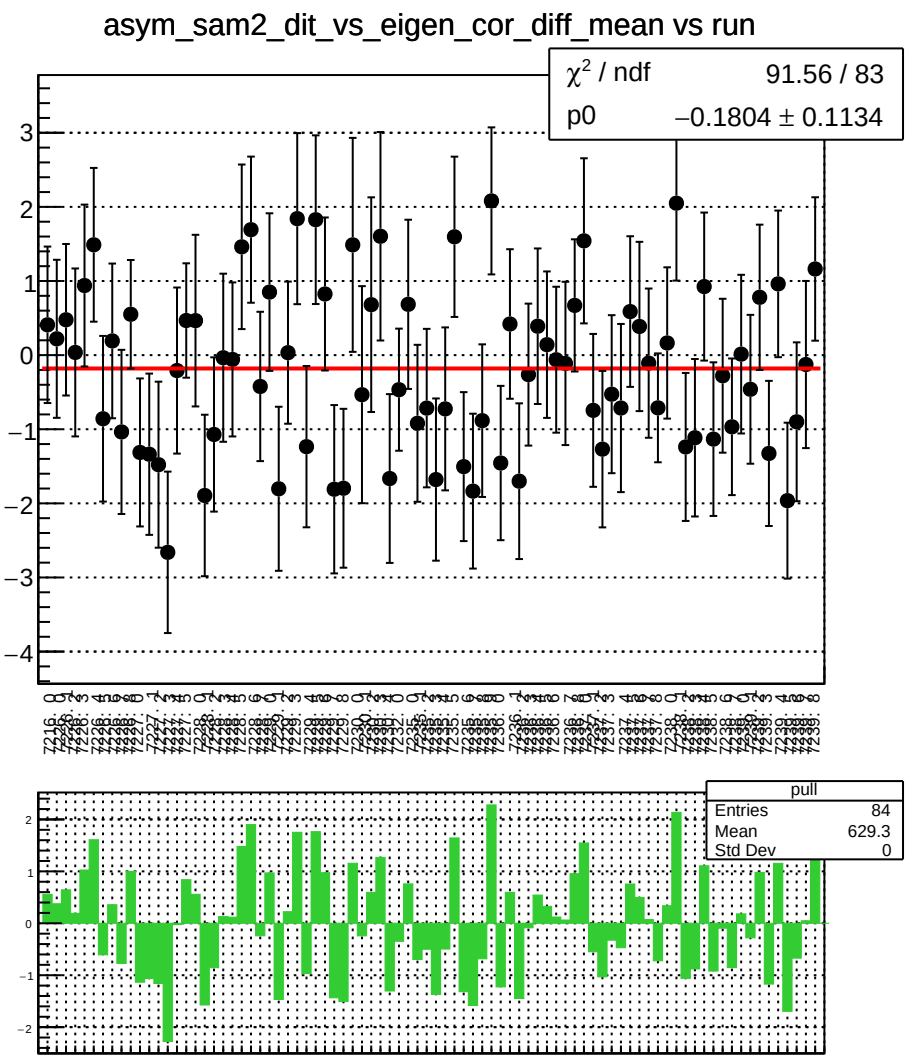

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 82.39 / 83
p0 6.867e−14 ± 8.19e−14
pull
Entries 84
Mean 90.8
Std Dev 0

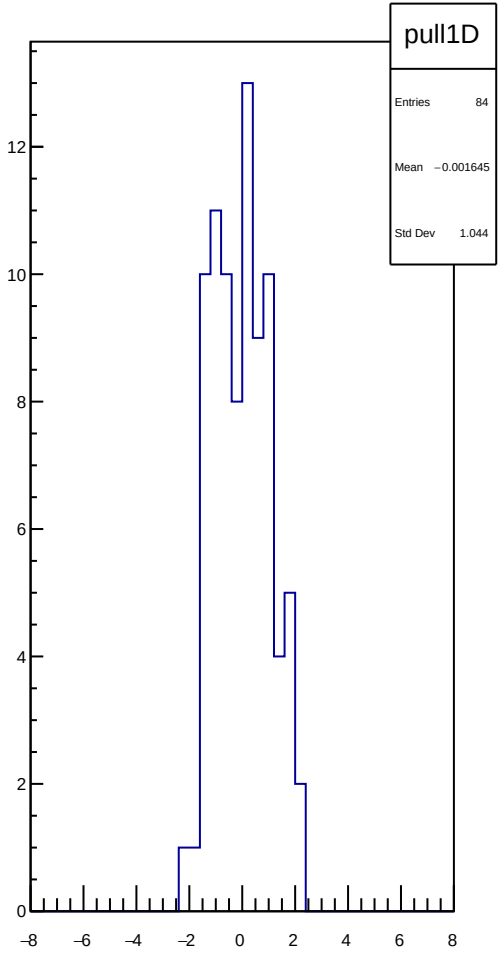

pull1D
Entries 84
Mean 0.02689
Std Dev 0.99

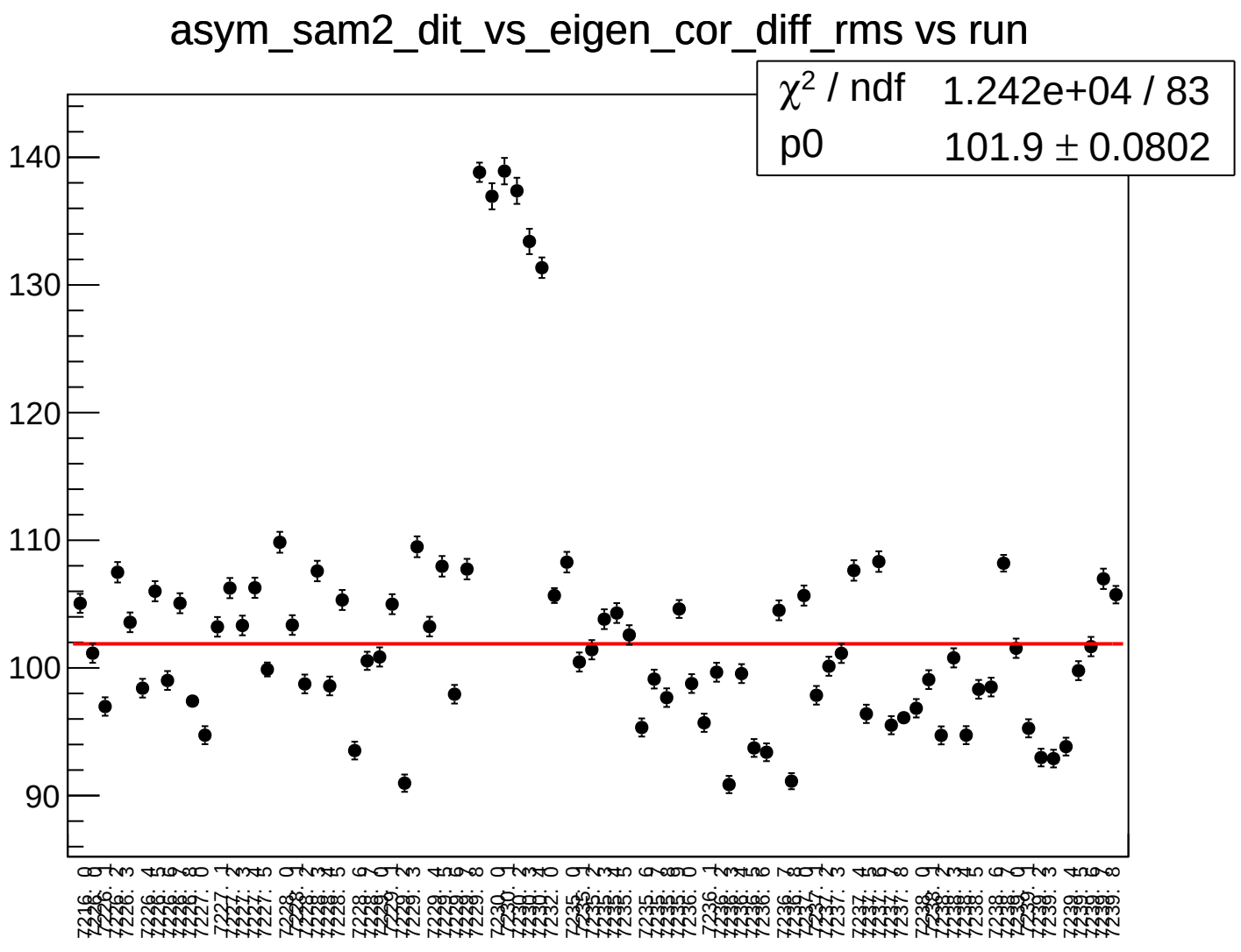

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.091e+06 / 83
p0 4.238e−11 ± 5.791e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

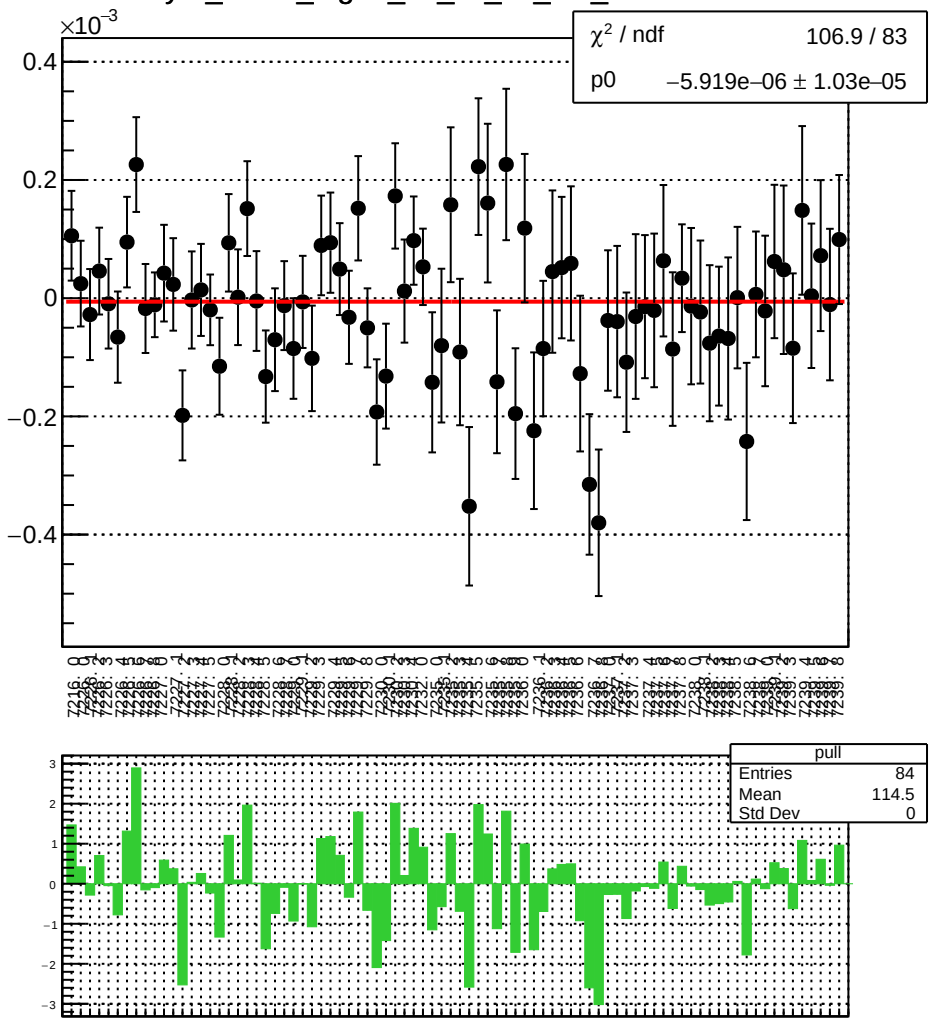

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 91.56 / 83
p0 −0.1804 ± 0.1134
pull
Entries 84
Mean 629.3
Std Dev 0
pull1D
Entries 84
Mean −0.001645
Std Dev 1.044

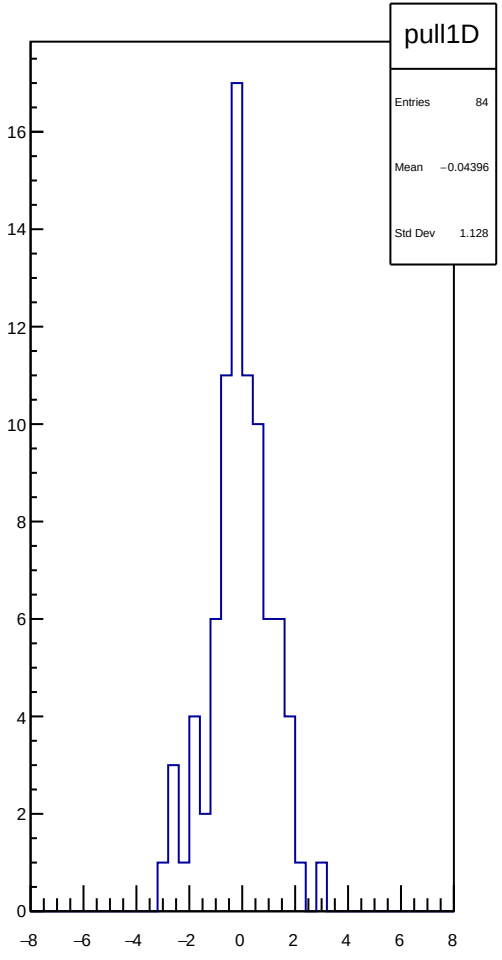

asym_sam2_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.242e+04 / 83
p0 101.9 ± 0.0802
140
130
120
110
100
90

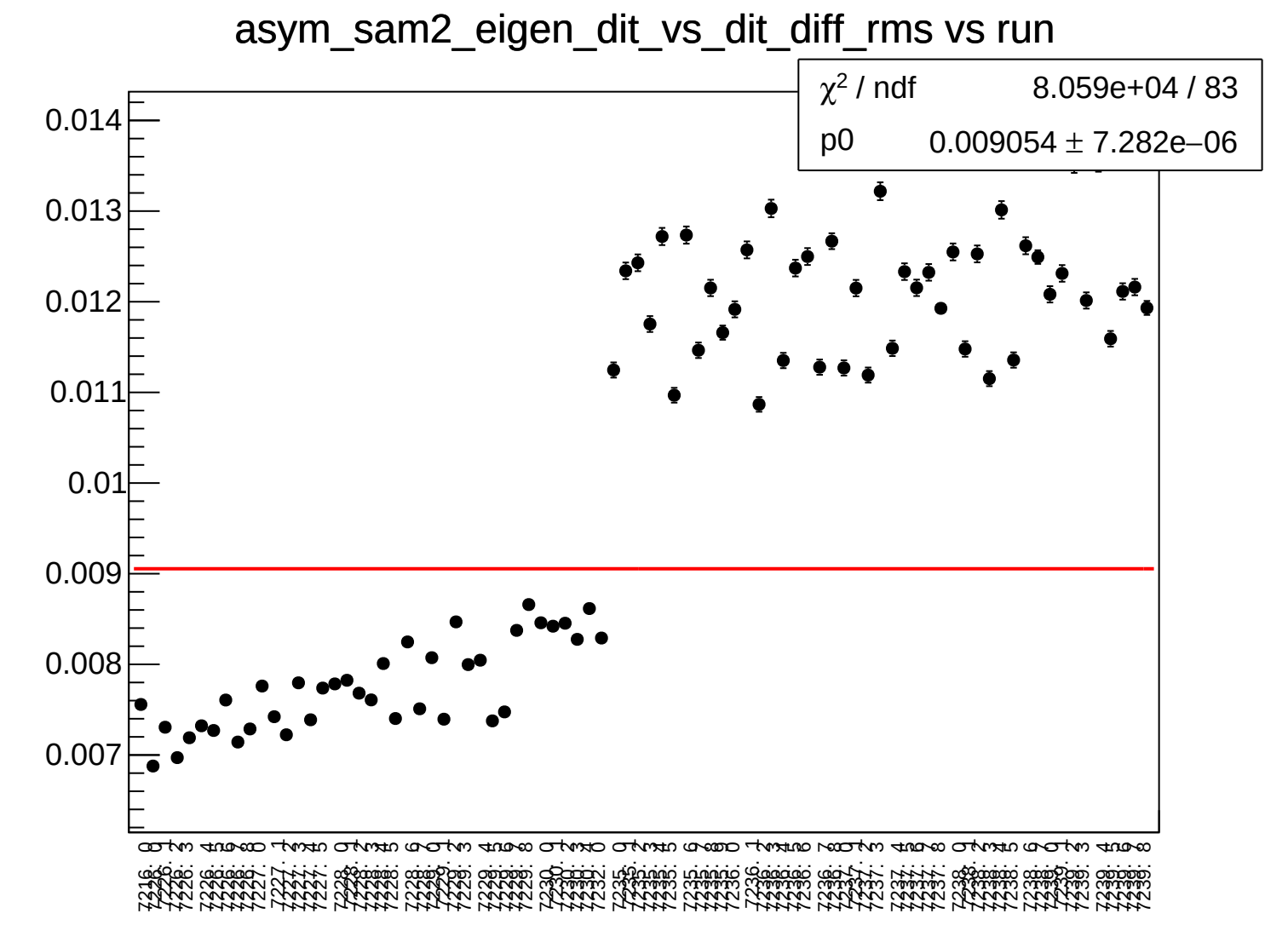

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.56 / 83
p0 −0.1804 ± 0.1134
pull
Entries 84
Mean 629.3
Std Dev 0

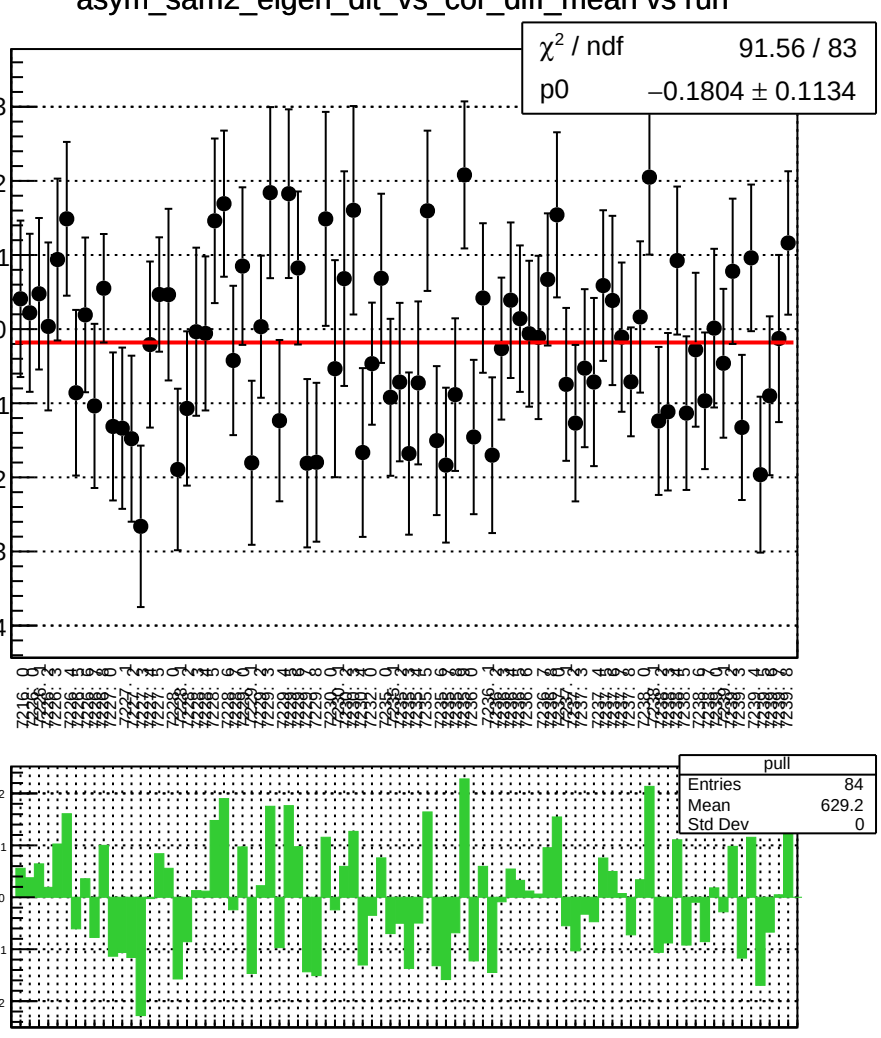

pull1D
Entries 84
Mean −0.001645
Std Dev 1.044

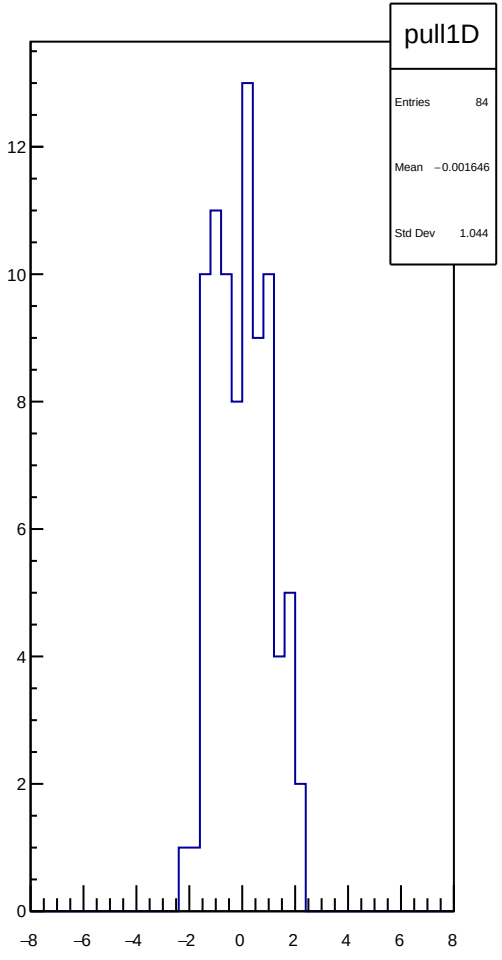

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.242e+04 / 83
p0 101.9 ± 0.0802
140
130
120
110
100
90

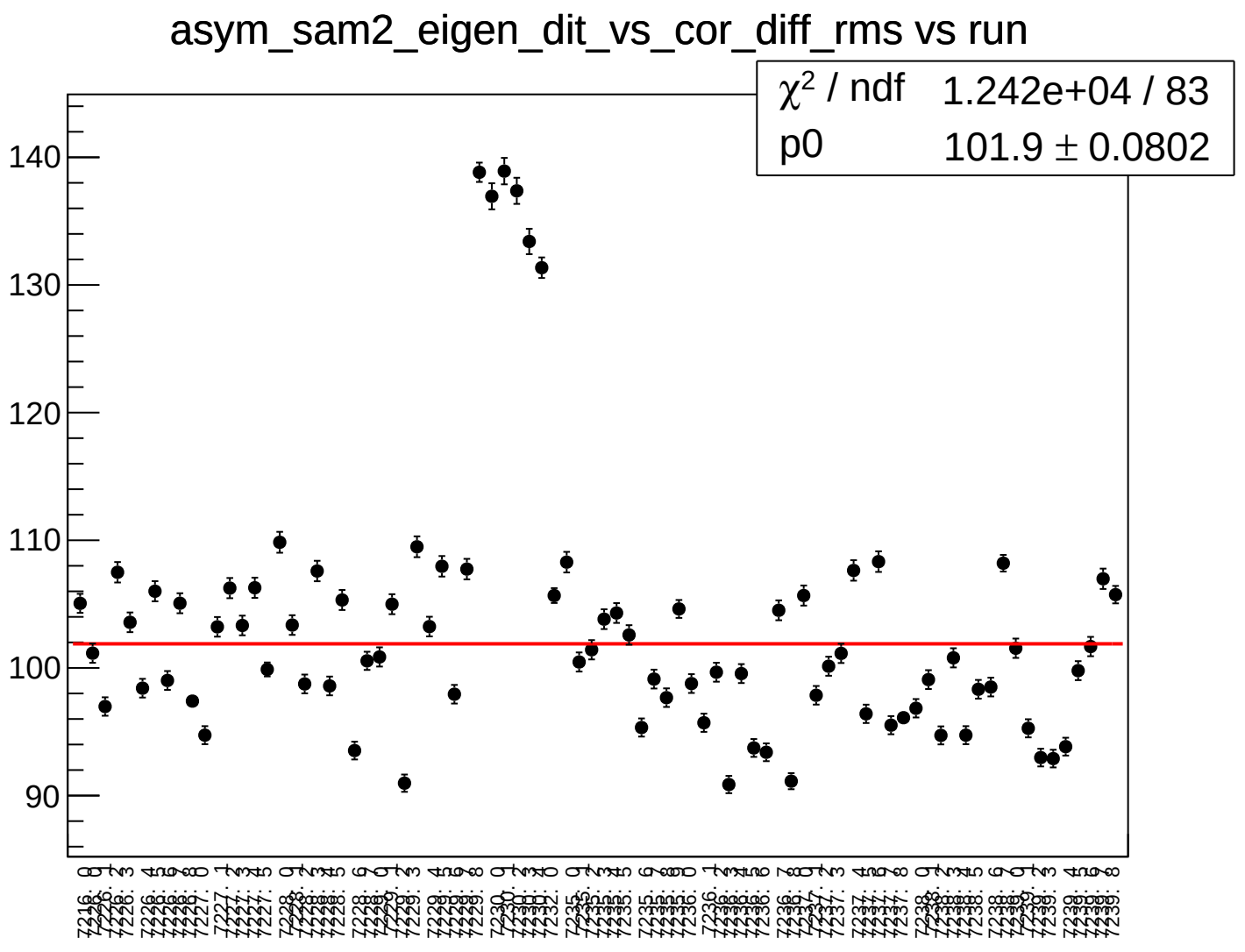

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 106.9 / 83
p0 −5.919e−06 ± 1.03e−05
pull
Entries 84
Mean 114.5
Std Dev 0

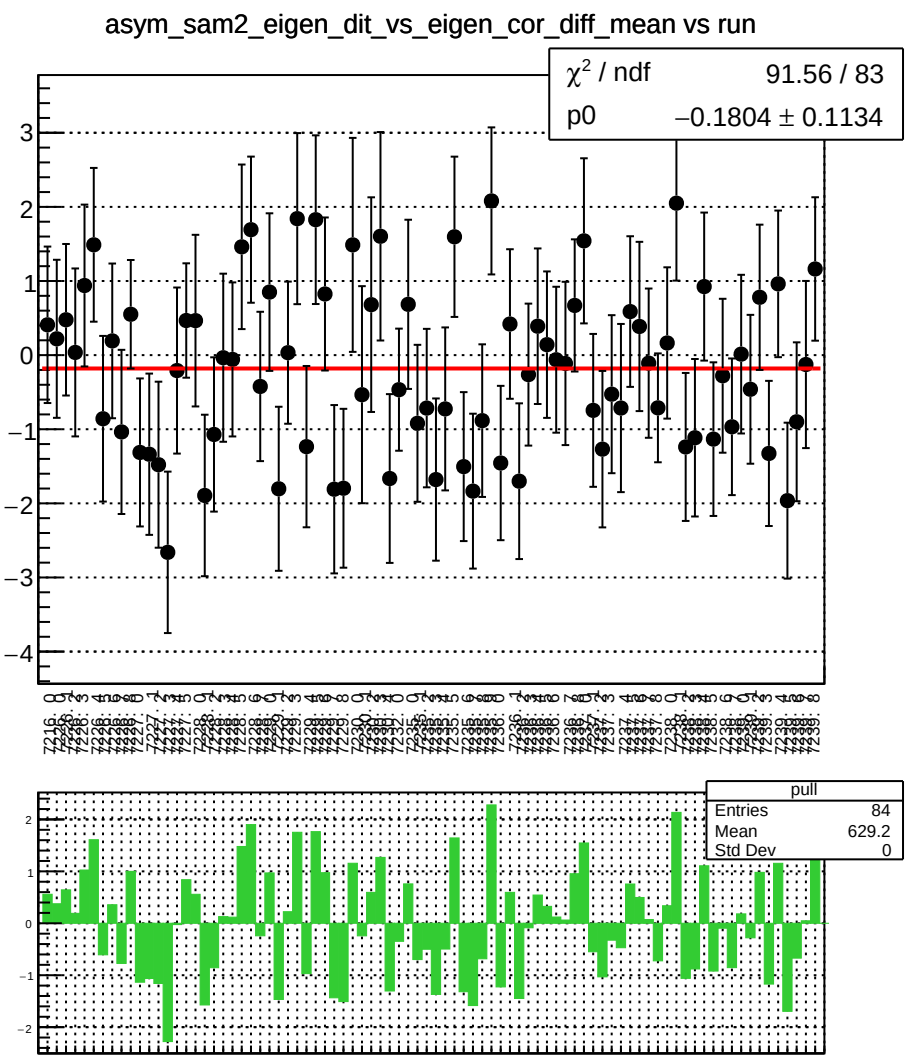

pull1D
Entries 84
Mean −0.04396
Std Dev 1.128

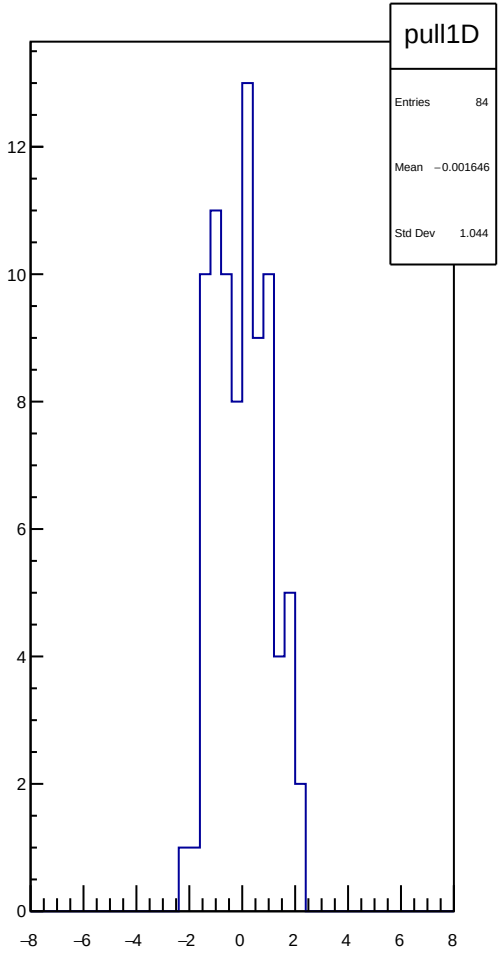

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.059e+04 / 83
p0 0.009054 ± 7.282e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007

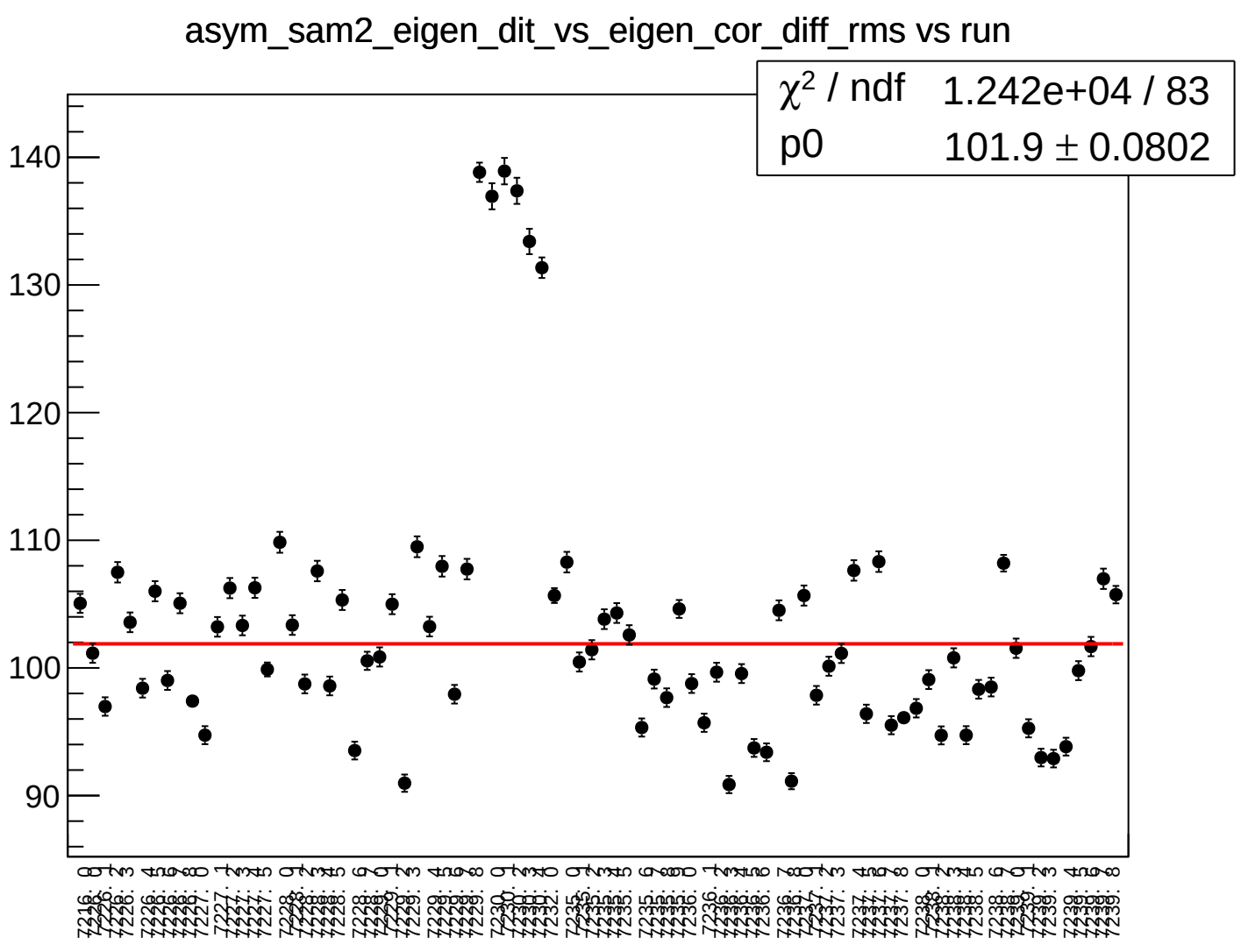

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.56 / 83
p0 −0.1804 ± 0.1134
pull
Entries 84
Mean 629.2
Std Dev 0

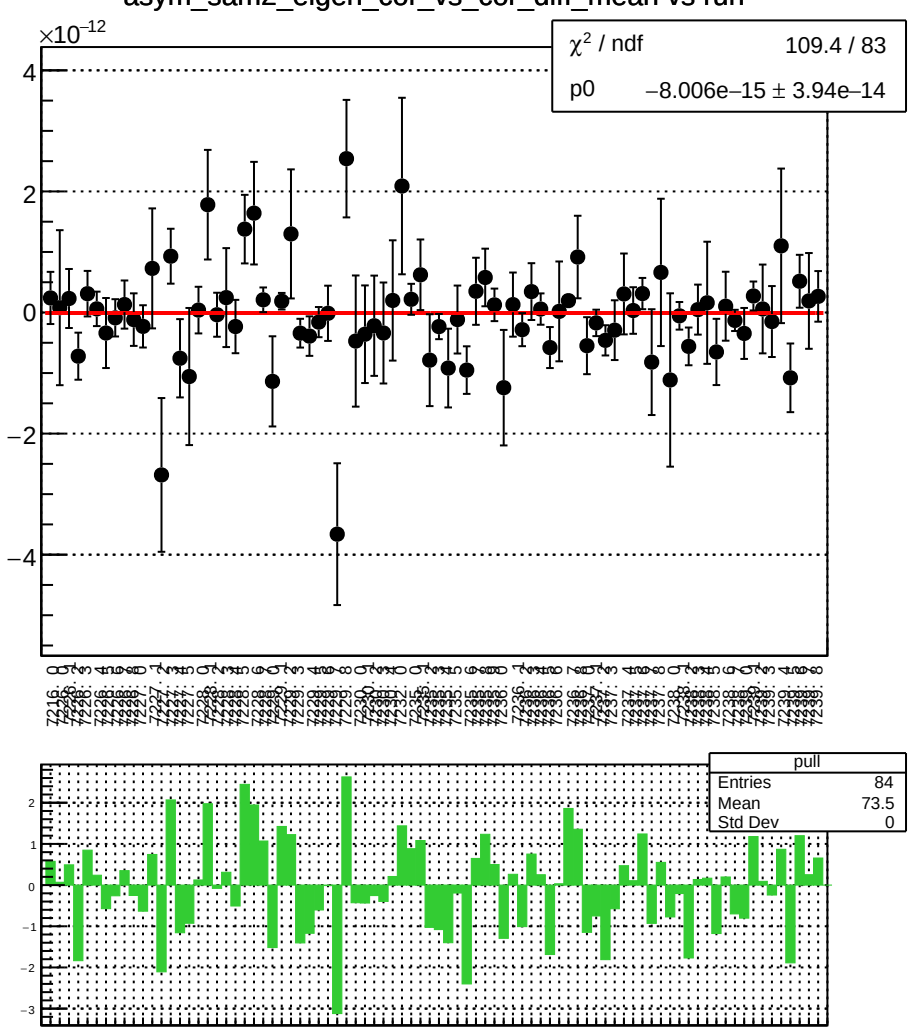

pull1D
Entries 84
Mean −0.001646
Std Dev 1.044

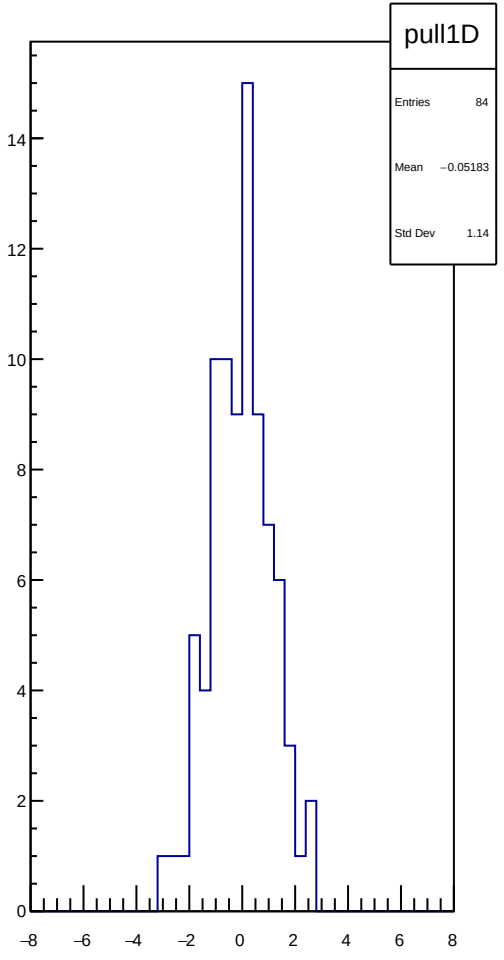

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.242e+04 / 83
p0 101.9 ± 0.0802
140
130
120
110
100
90

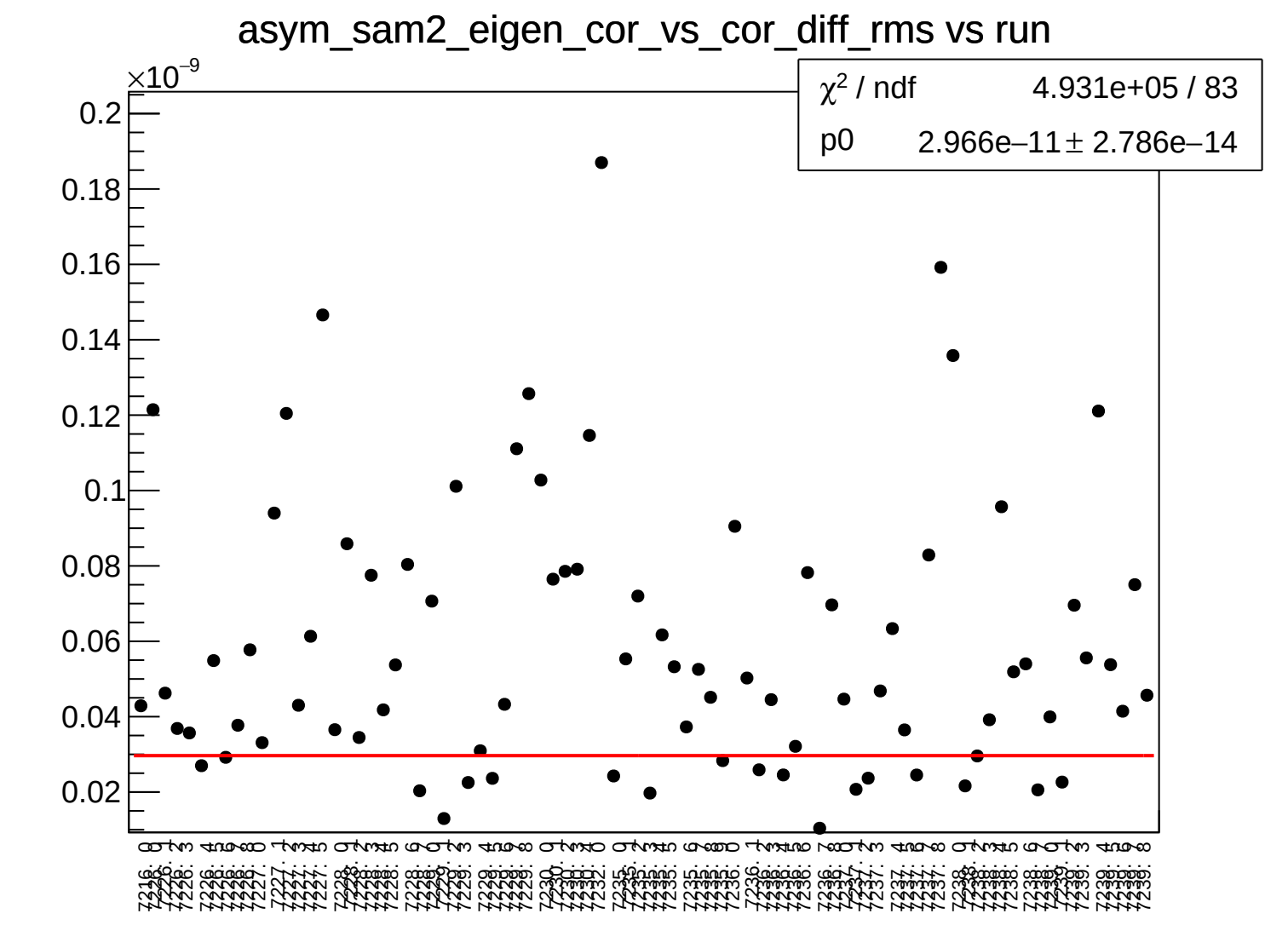

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.56 / 83
p0 −0.1804 ± 0.1134
pull
Entries 84
Mean 629.2
Std Dev 0

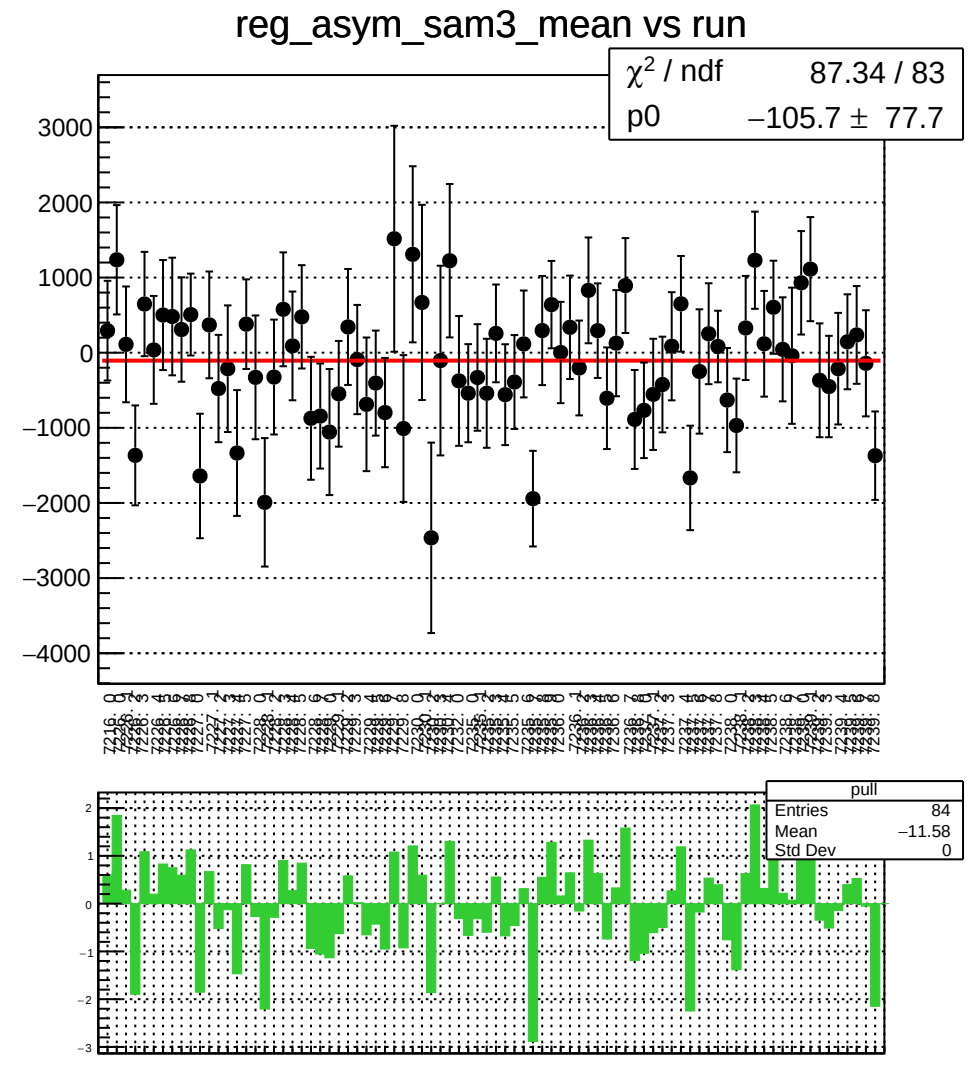

pull1D
Entries 84
Mean −0.001646
Std Dev 1.044

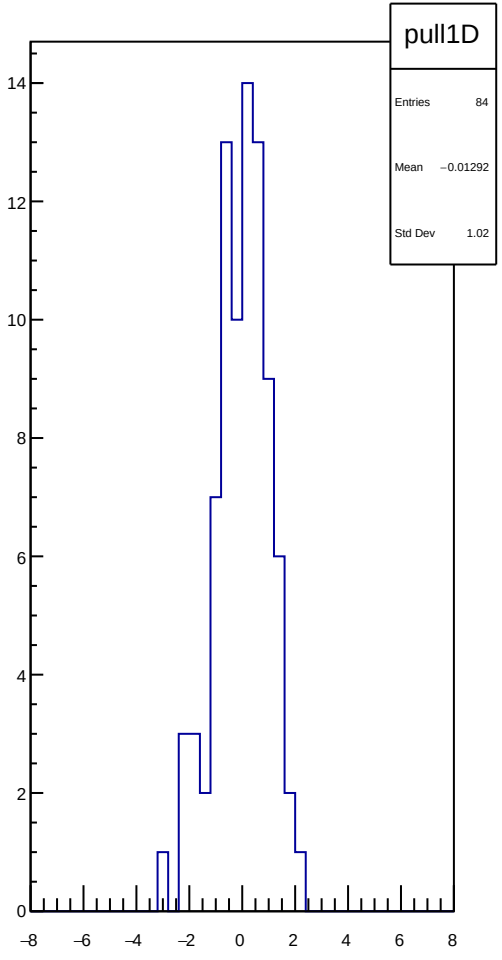

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.242e+04 / 83
p0 101.9 ± 0.0802
140
130
120
110
100
90

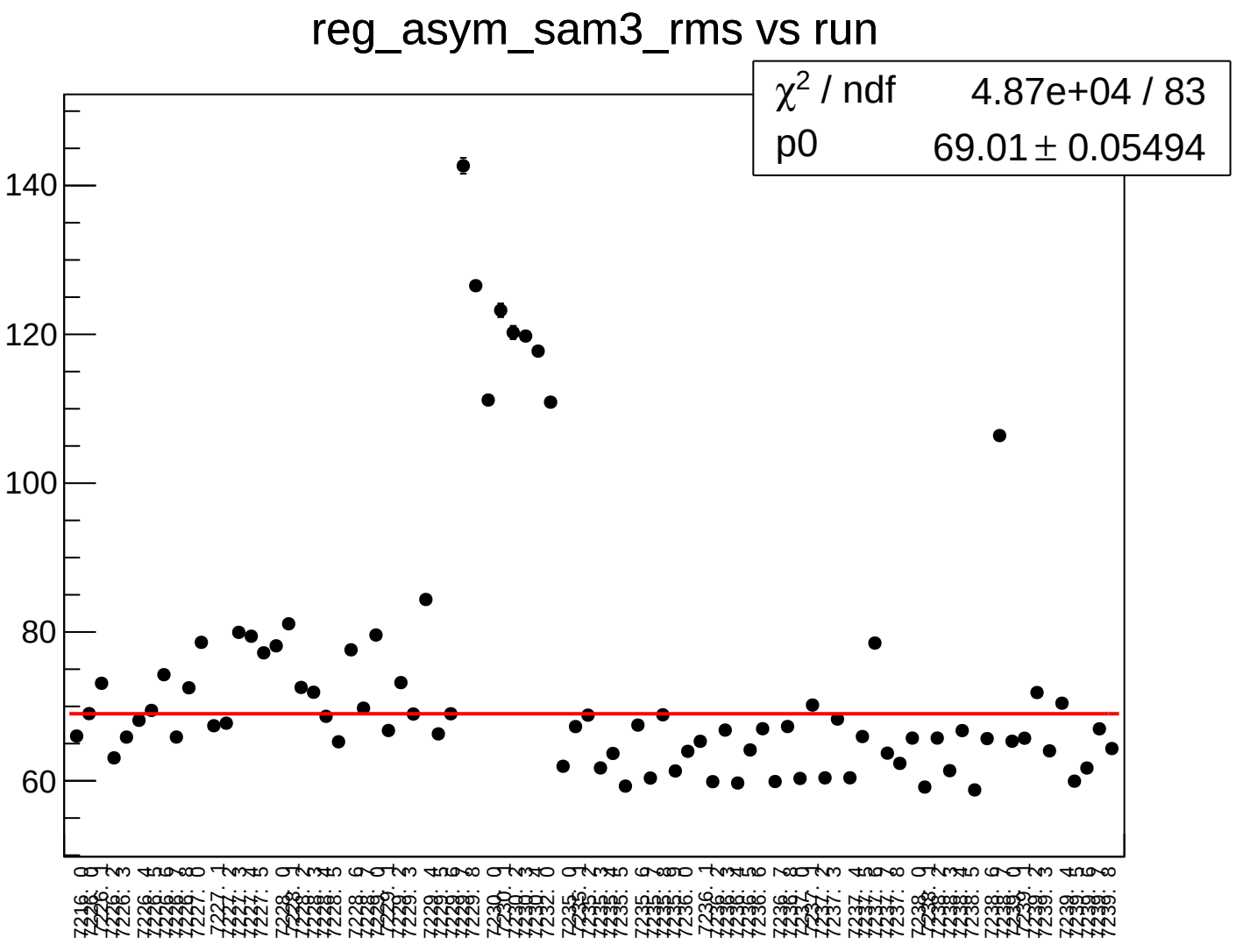

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 109.4 / 83
p0 −8.006e−15 ± 3.94e−14
pull
Entries 84
Mean 73.5
Std Dev 0

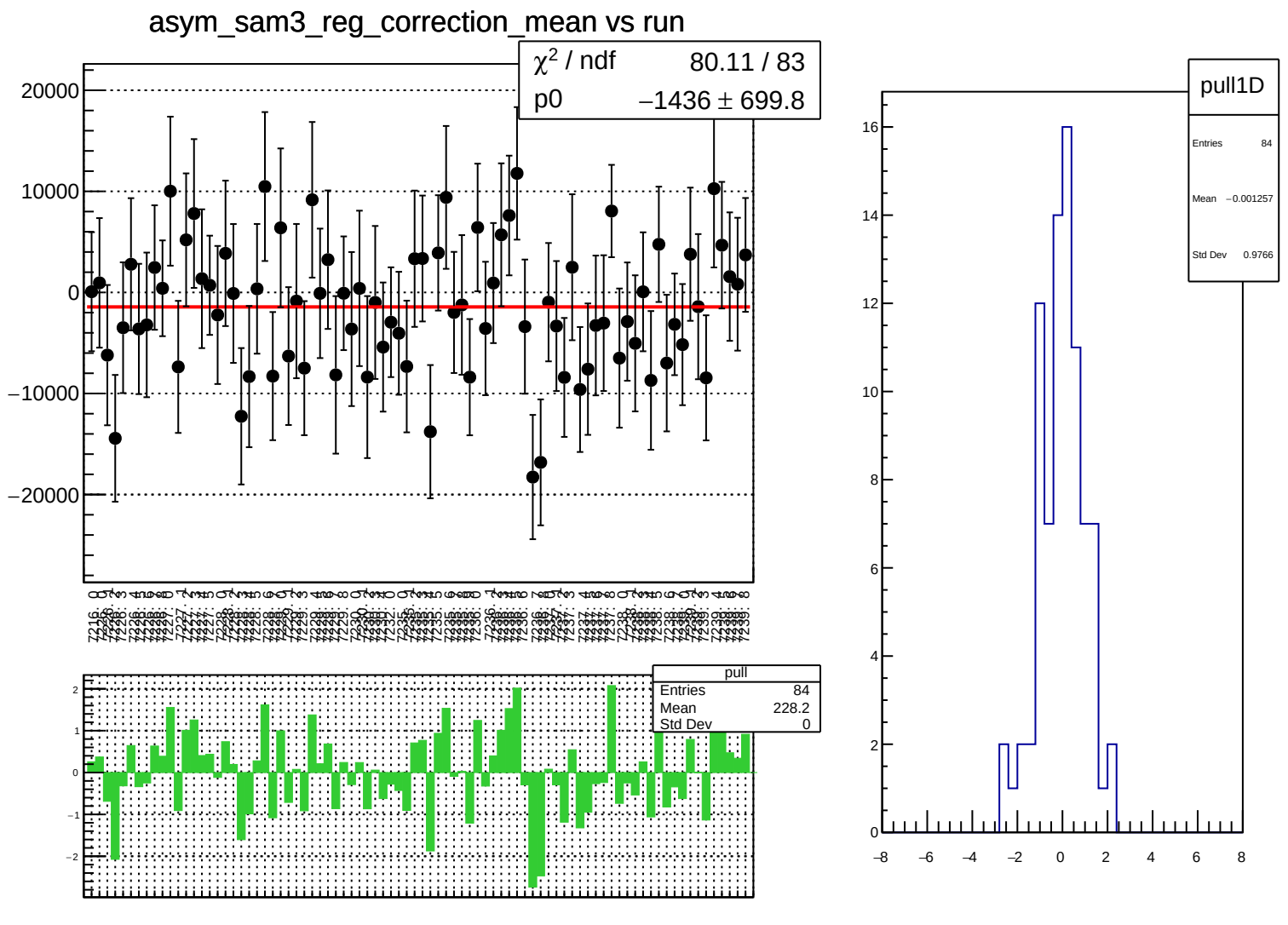

pull1D
Entries 84
Mean −0.05183
Std Dev 1.14

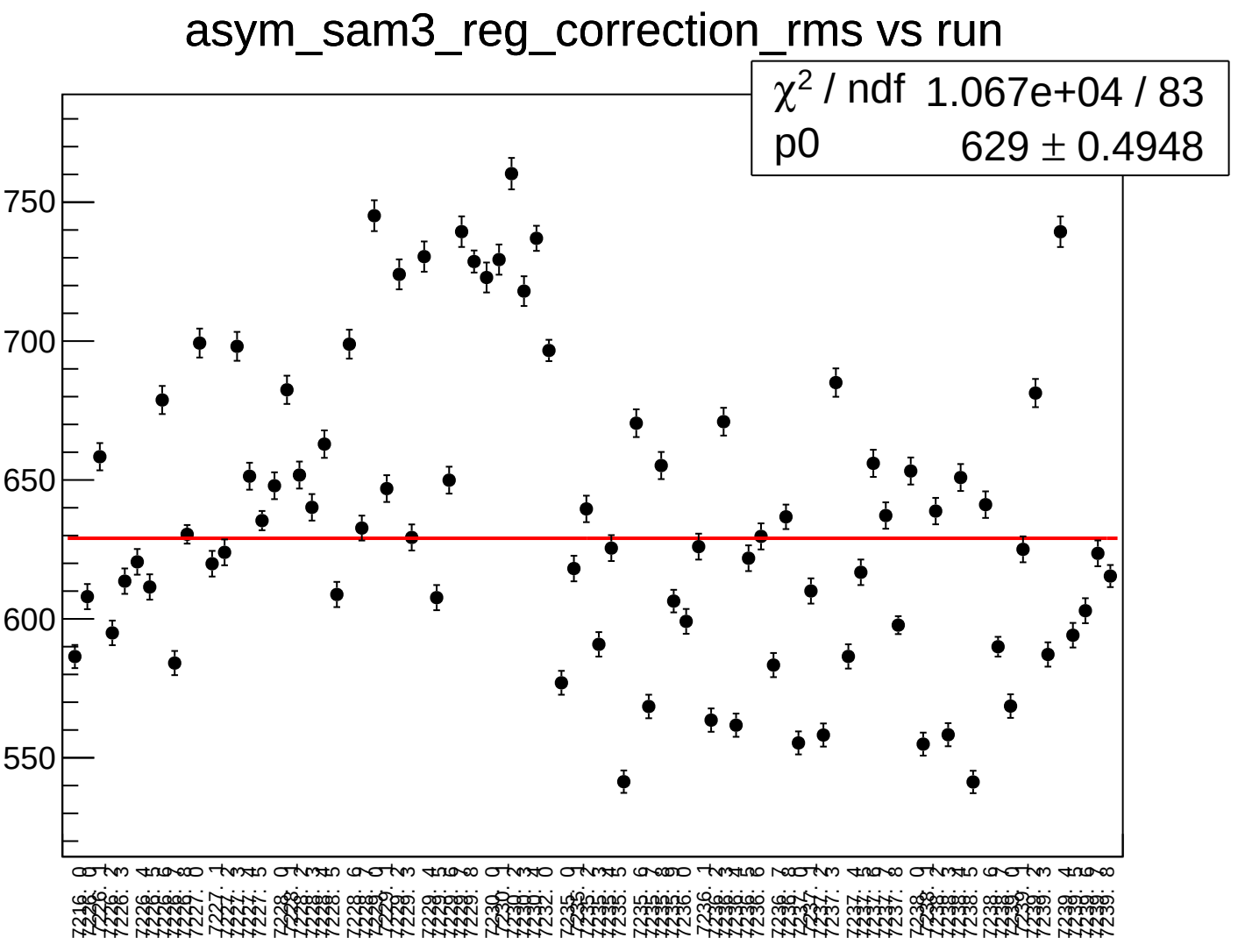

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.931e+05 / 83
p0 2.966e−11 ± 2.786e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

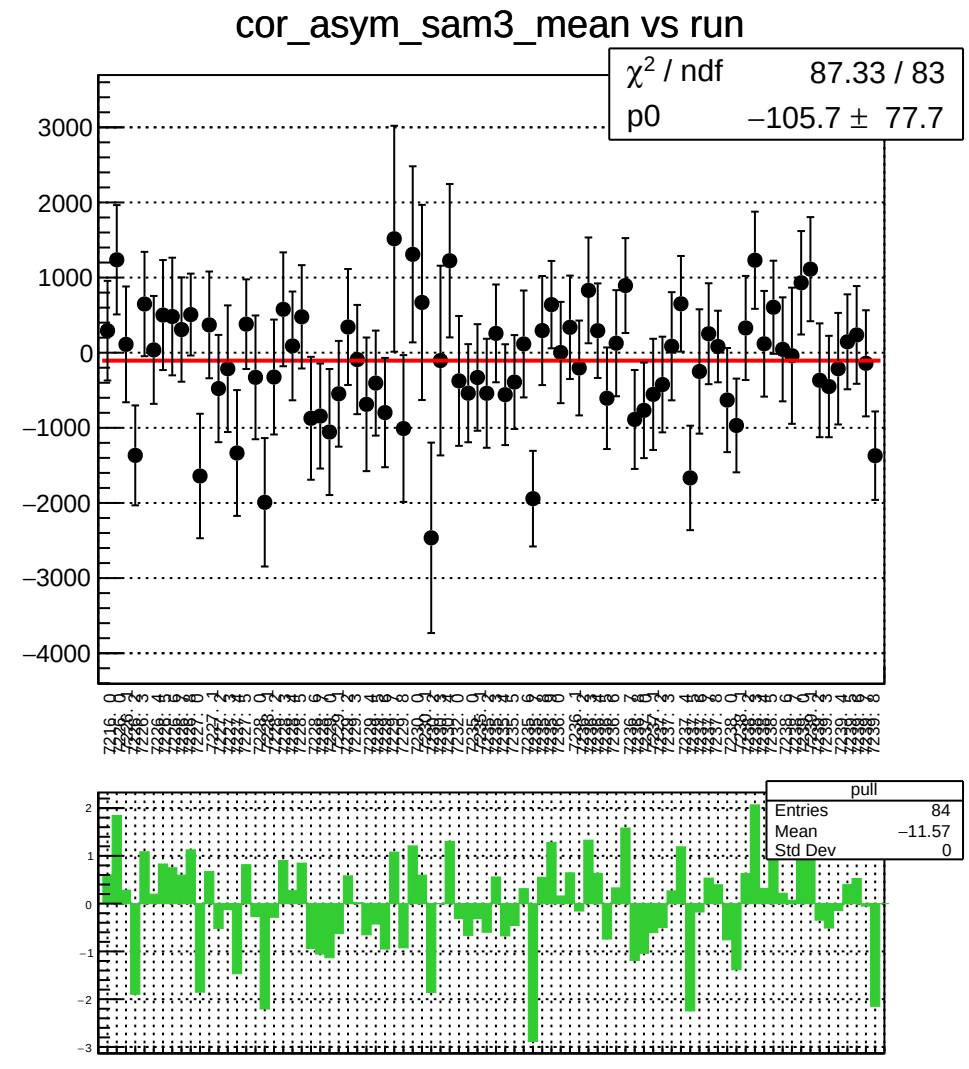

reg_asym_sam3_mean vs run
χ² / ndf 87.34 / 83
p0 −105.7 ± 77.7
pull
Entries 84
Mean −11.58
Std Dev 0

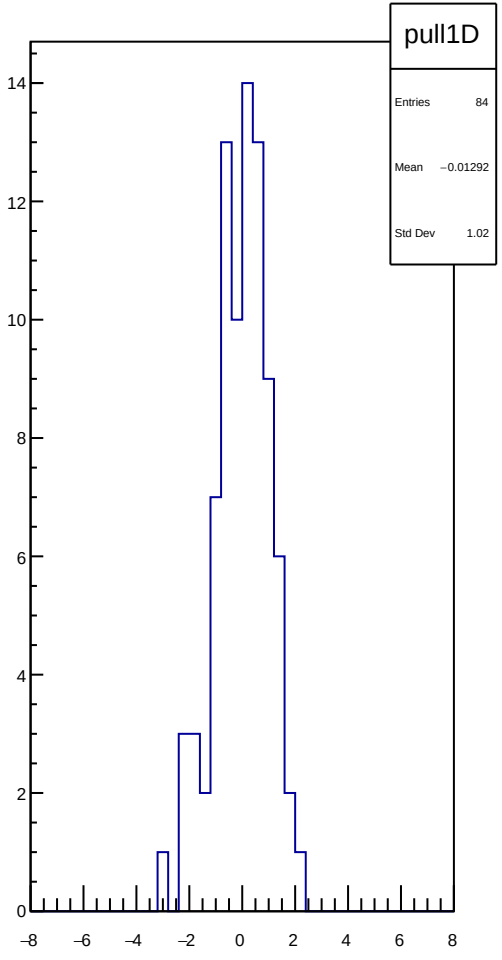

pull1D
Entries 84
Mean −0.01292
Std Dev 1.02

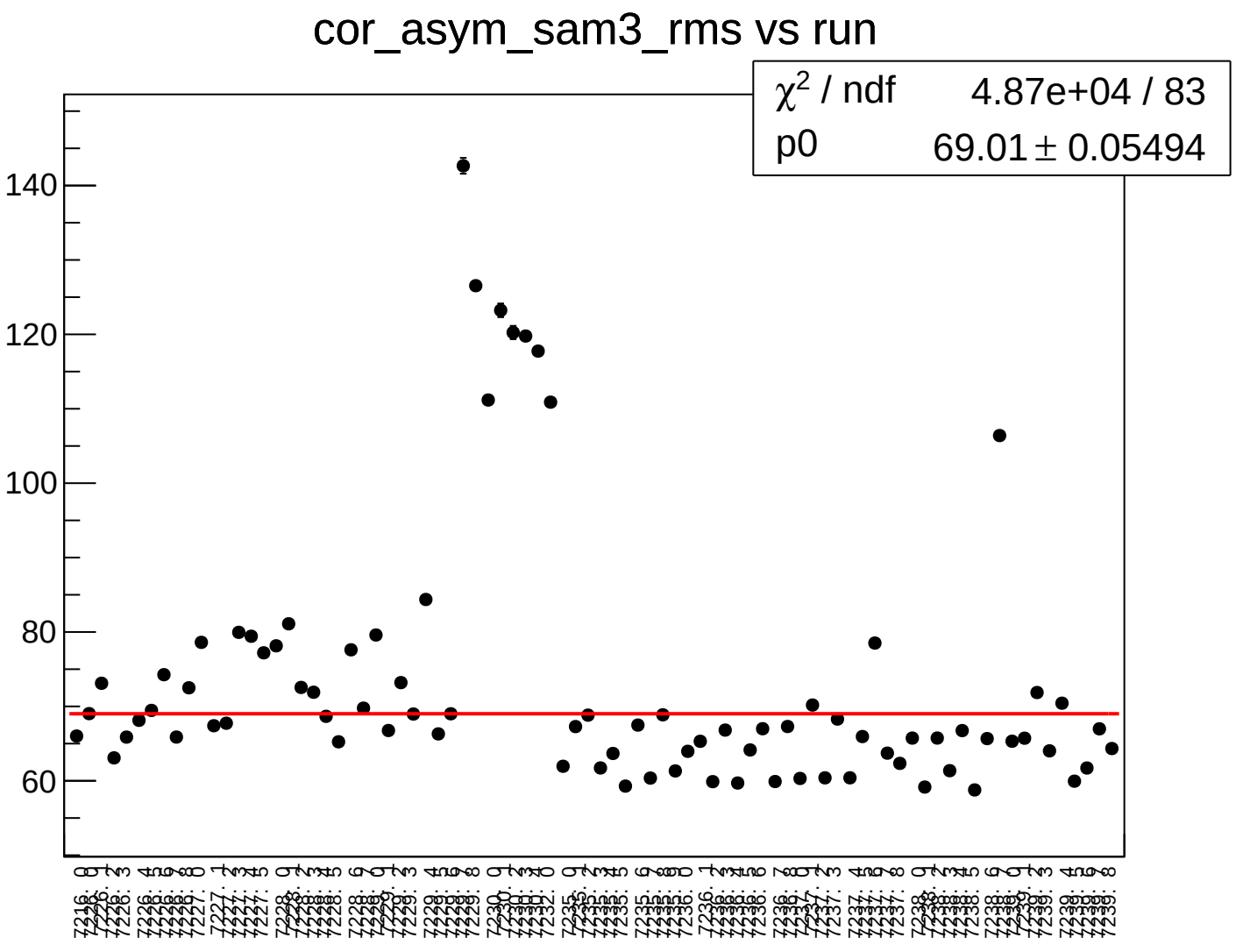

reg_asym_sam3_rms vs run
χ^2 / ndf 4.87e+04 / 83
p0 69.01 ± 0.05494
140
120
100
80
60

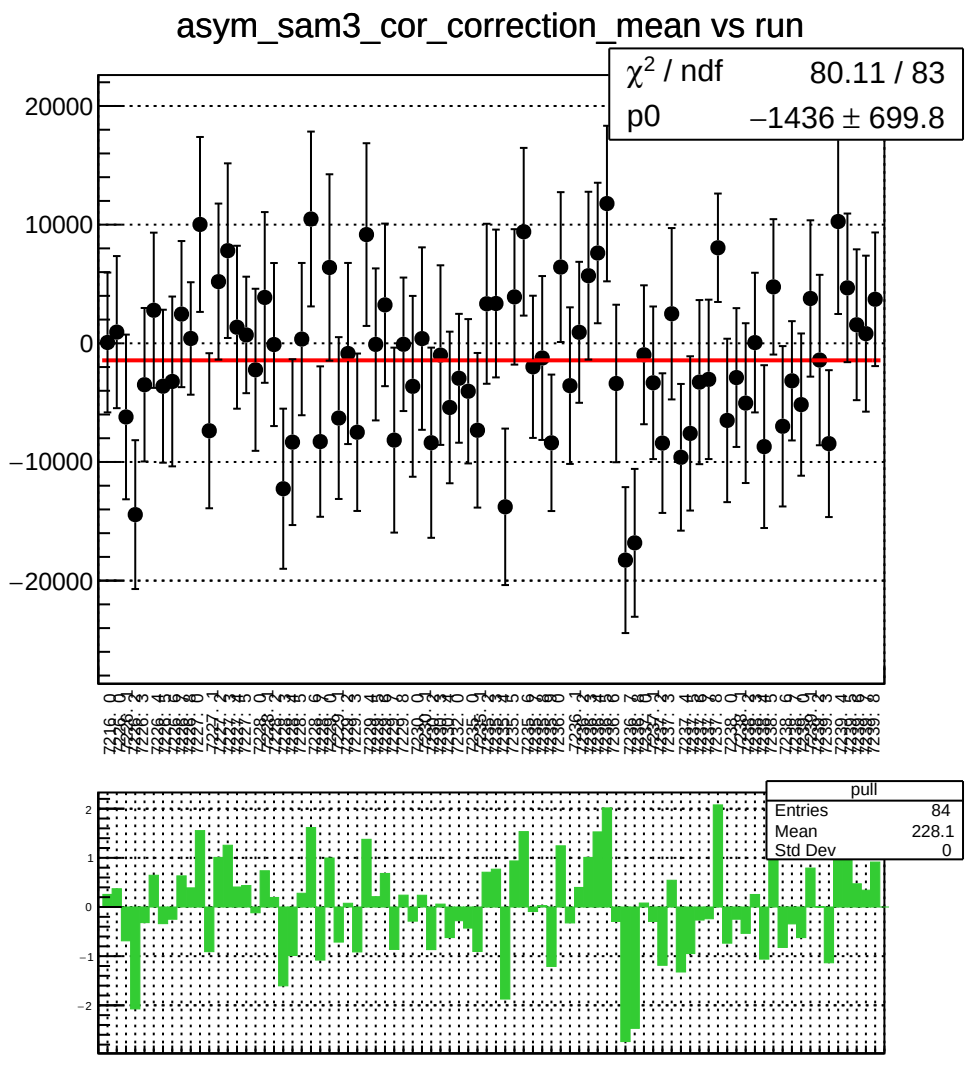

asym_sam3_reg_correction_mean vs run
χ² / ndf 80.11 / 83
p0 −1436 ± 699.8
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 228.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.001257
Std Dev 0.9766
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

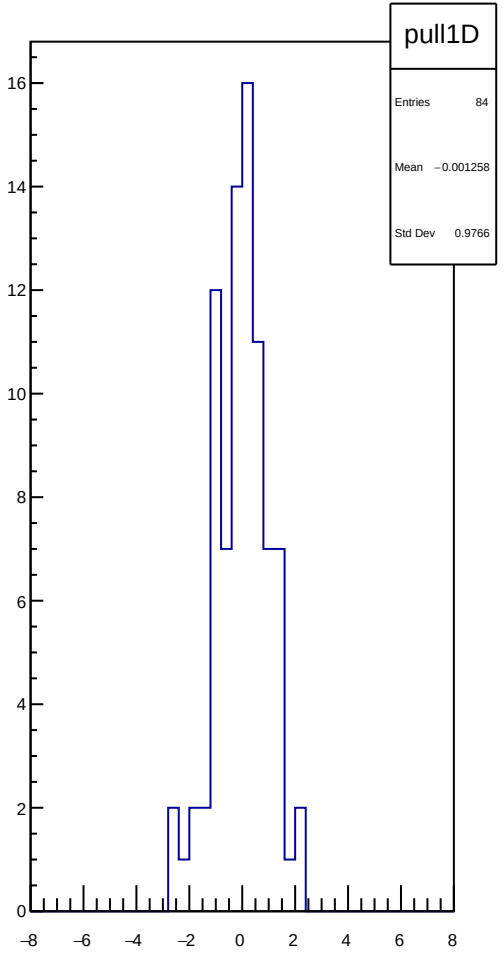

asym_sam3_reg_correction_rms vs run
χ² / ndf 1.067e+04 / 83
p0 629 ± 0.4948
750
700
650
600
550

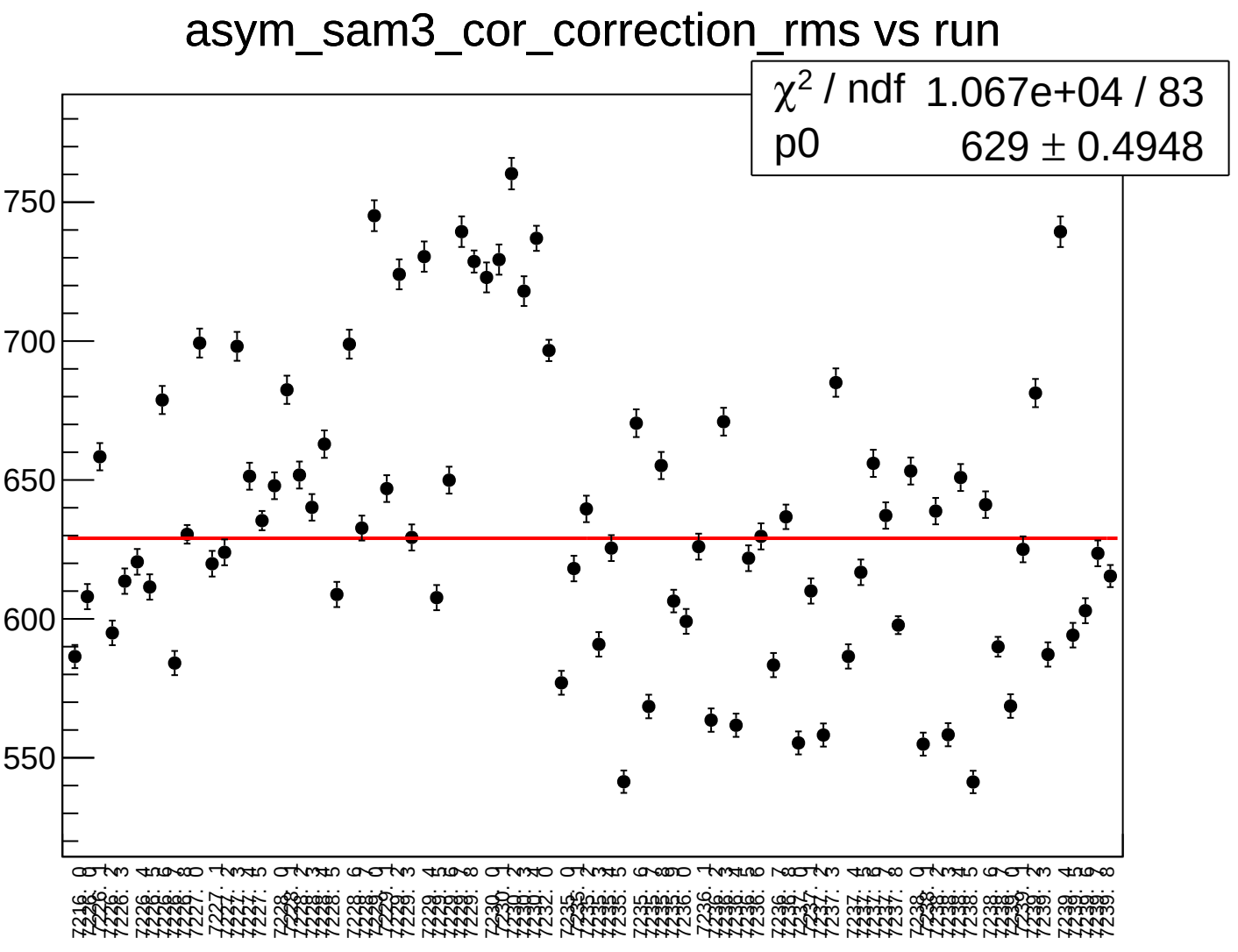

cor_asym_sam3_mean vs run
χ² / ndf 87.33 / 83
p0 −105.7 ± 77.7
pull
Entries 84
Mean −11.57
Std Dev 0

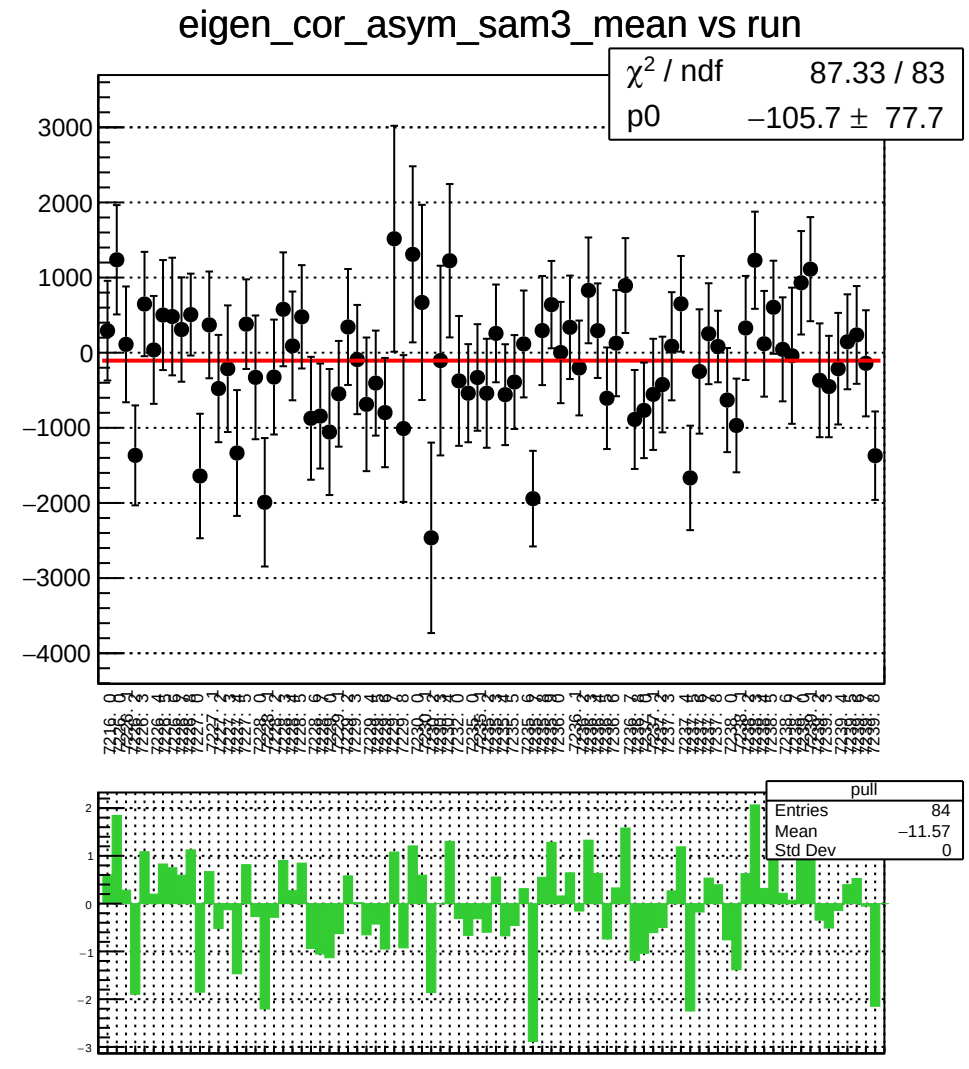

pull1D
Entries 84
Mean −0.01292
Std Dev 1.02

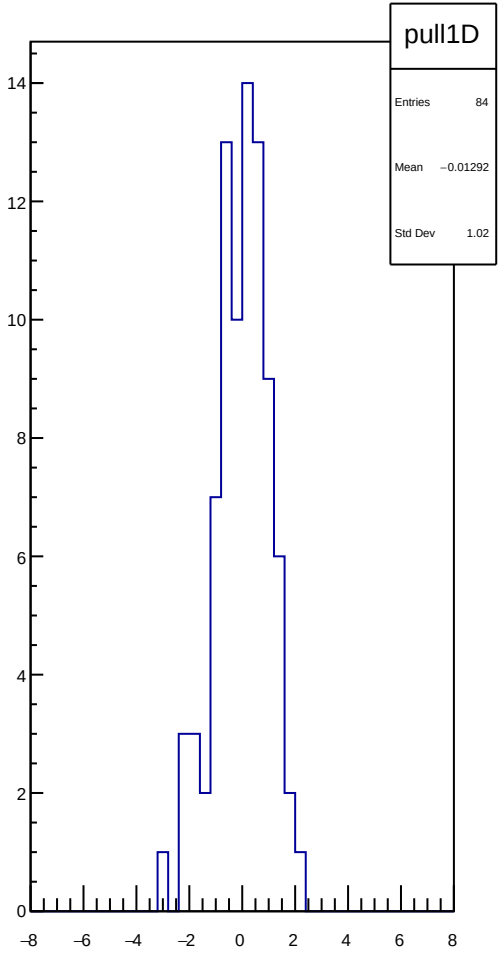

cor_asym_sam3_rms vs run
χ^2 / ndf 4.87e+04 / 83
p0 69.01 ± 0.05494
140
120
100
80
60

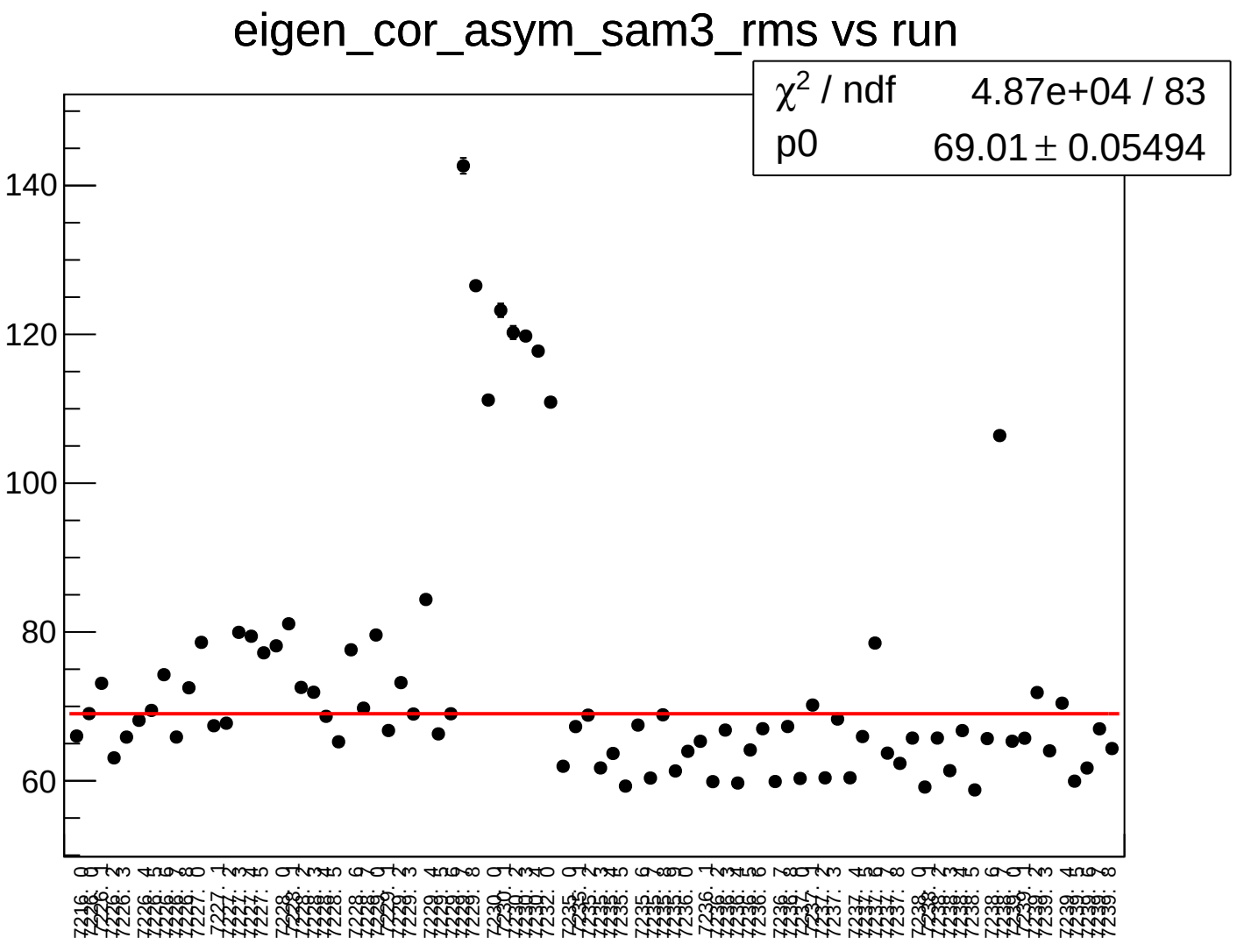

asym_sam3_cor_correction_mean vs run
χ² / ndf 80.11 / 83
p0 −1436 ± 699.8
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 228.1
Std Dev 0
2
1
0
−1
−2

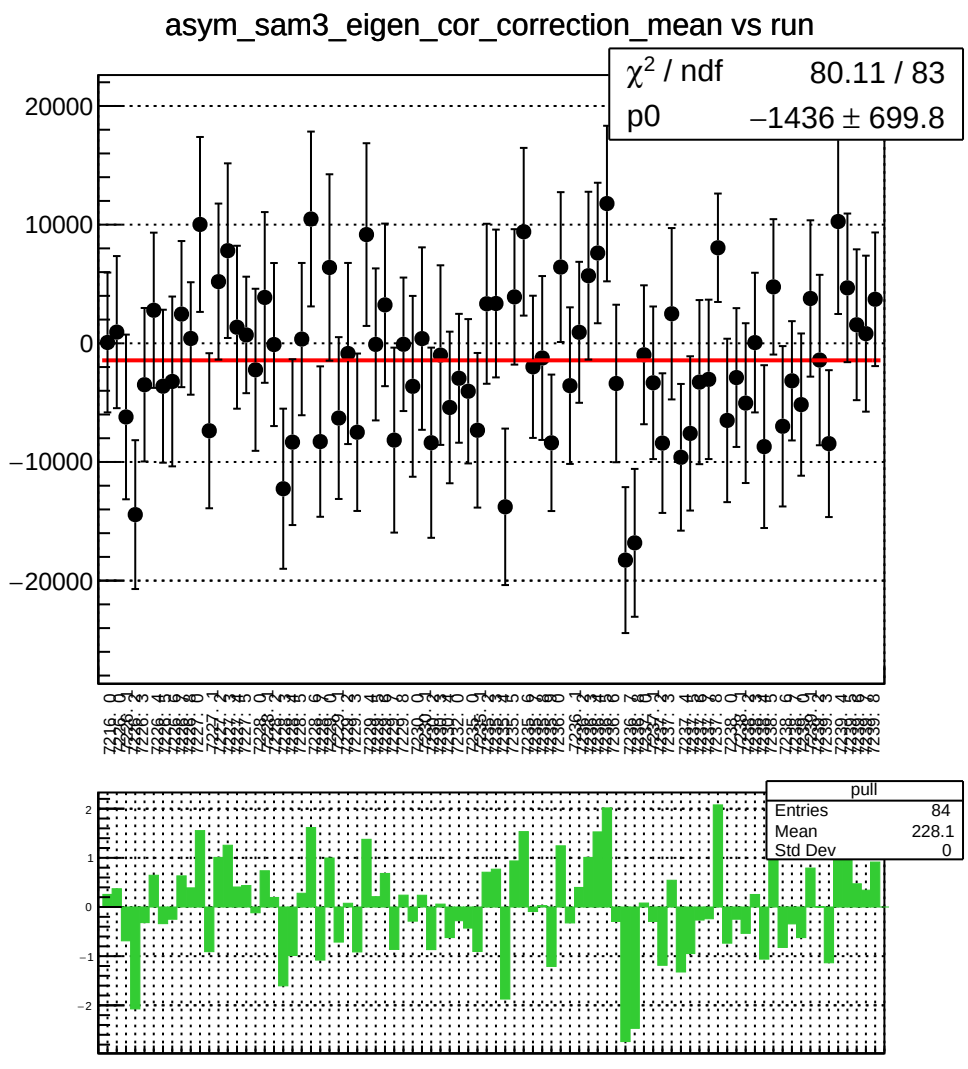

pull1D
Entries 84
Mean −0.001258
Std Dev 0.9766
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

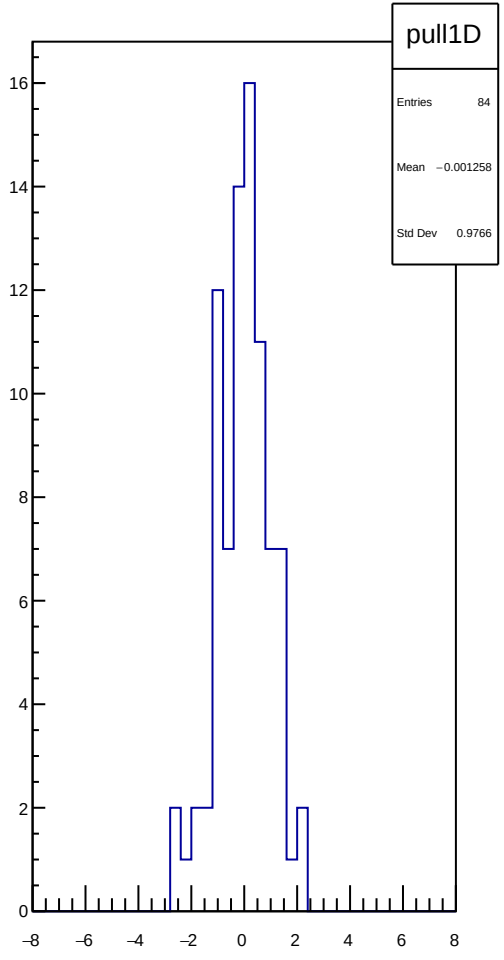

asym_sam3_cor_correction_rms vs run
χ² / ndf 1.067e+04 / 83
p0 629 ± 0.4948
750
700
650
600
550

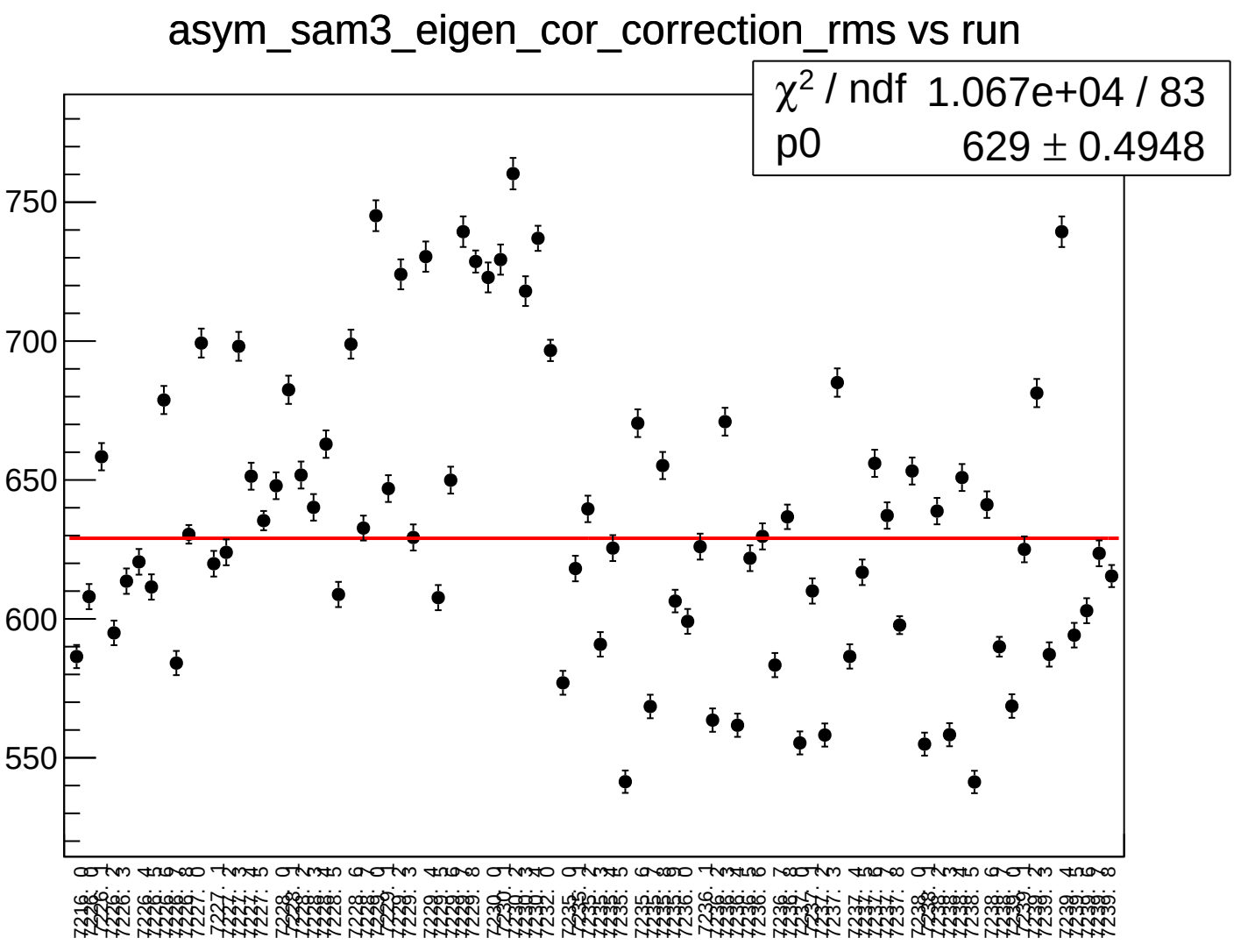

eigen_cor_asym_sam3_mean vs run
χ² / ndf 87.33 / 83
p0 −105.7 ± 77.7
pull
Entries 84
Mean −11.57
Std Dev 0

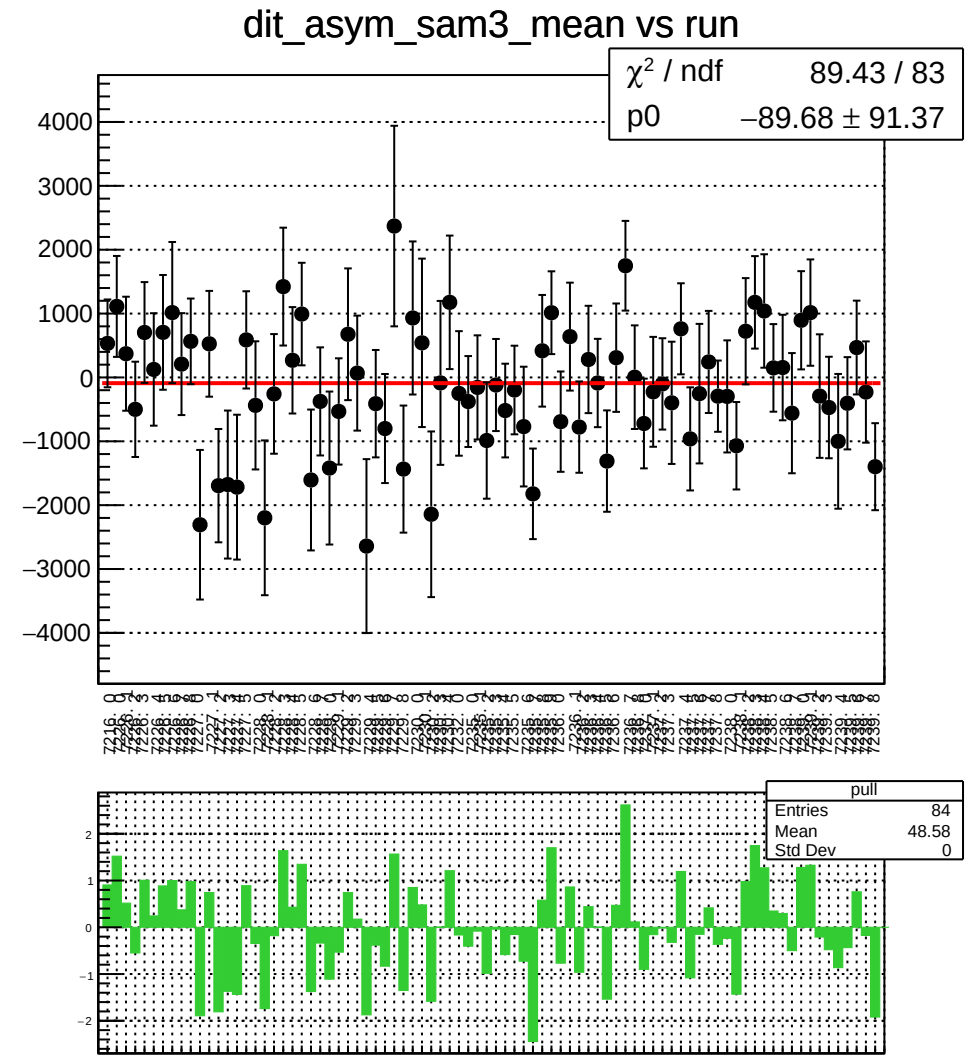

pull1D
Entries 84
Mean −0.01292
Std Dev 1.02

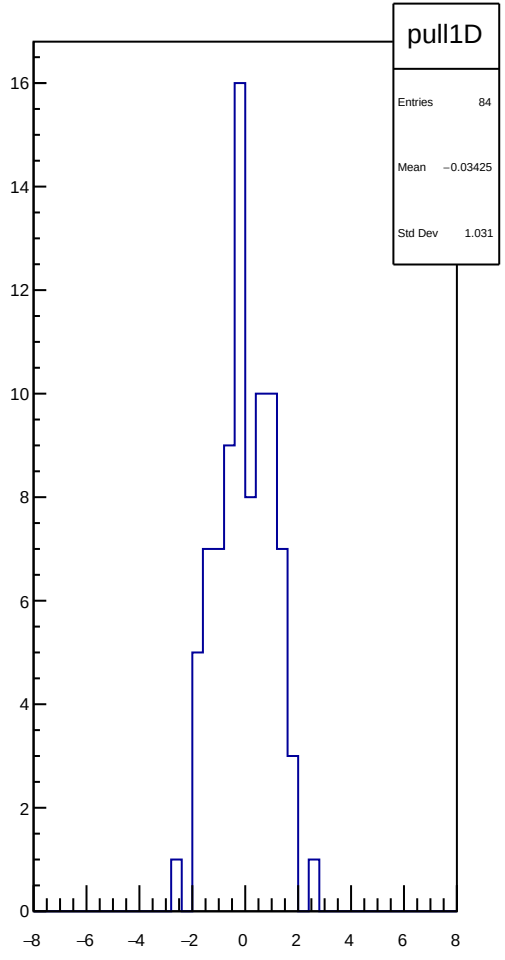

eigen_cor_asym_sam3_rms vs run
χ² / ndf 4.87e+04 / 83
p0 69.01 ± 0.05494
140
120
100
80
60

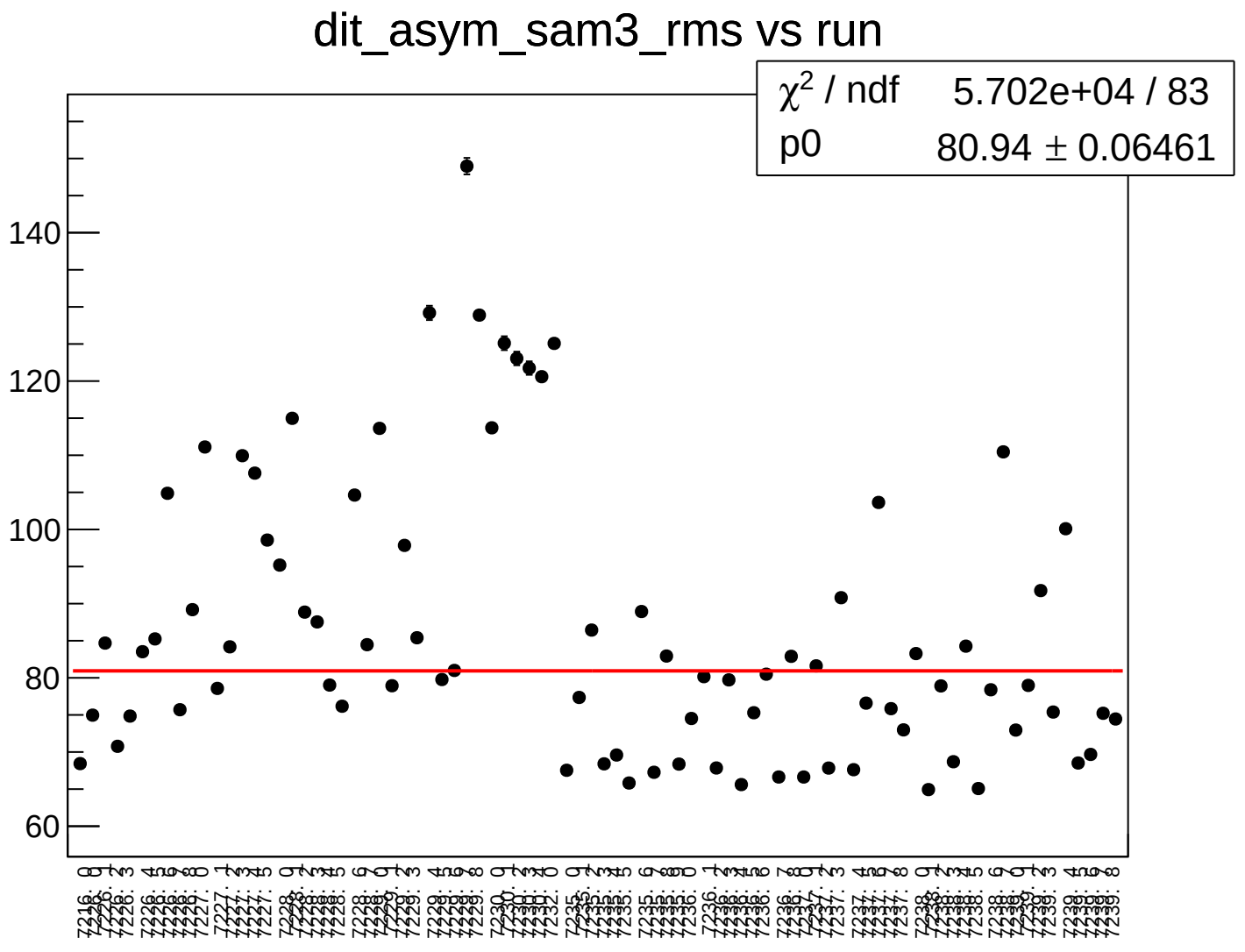

asym_sam3_eigen_cor_correction_mean vs run
χ² / ndf 80.11 / 83
p0 −1436 ± 699.8
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 228.1
Std Dev 0
2
1
0
−1
−2

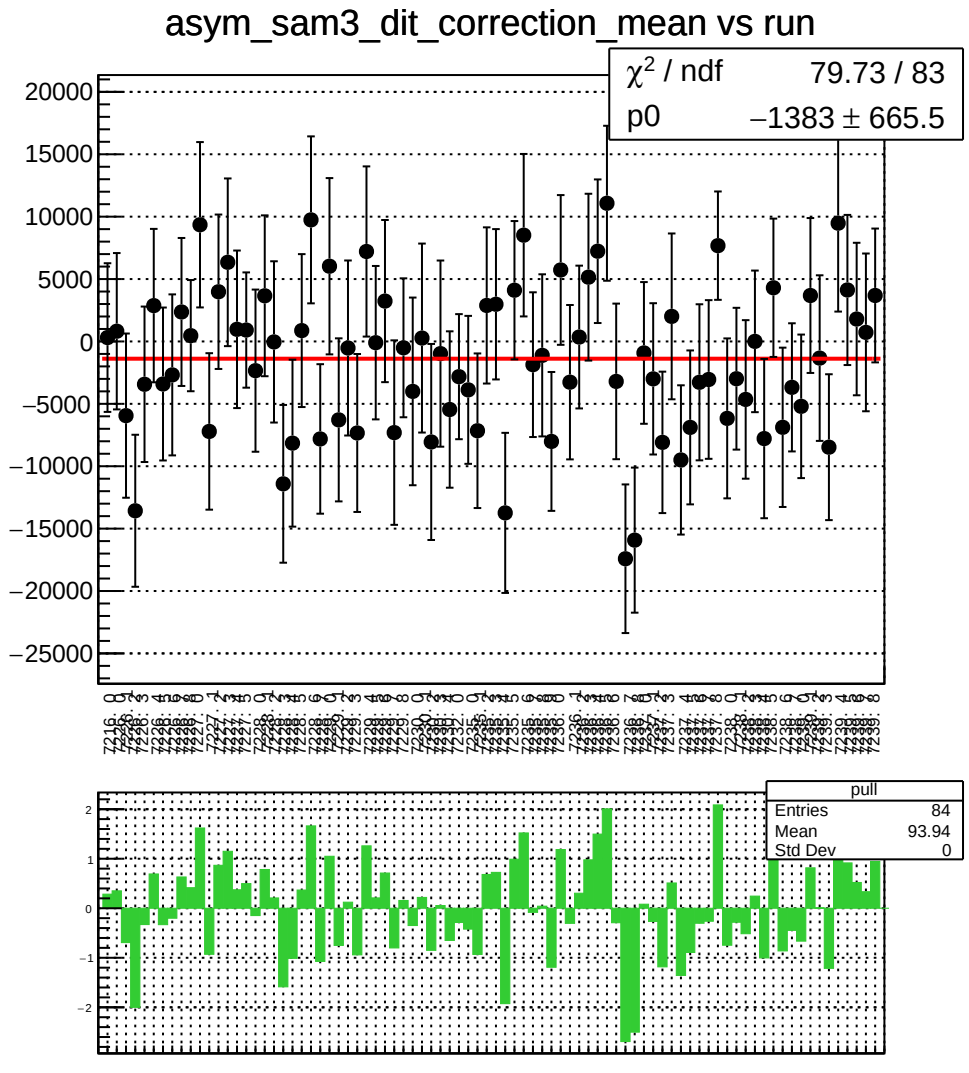

pull1D
Entries 84
Mean −0.001258
Std Dev 0.9766
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

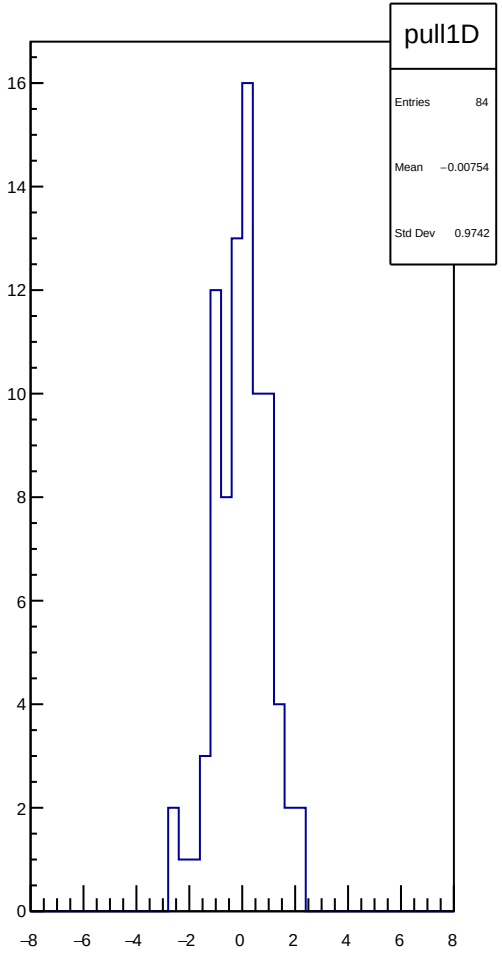

asym_sam3_eigen_cor_correction_rms vs run
χ^2 / ndf 1.067e+04 / 83
p0 629 ± 0.4948
750
700
650
600
550

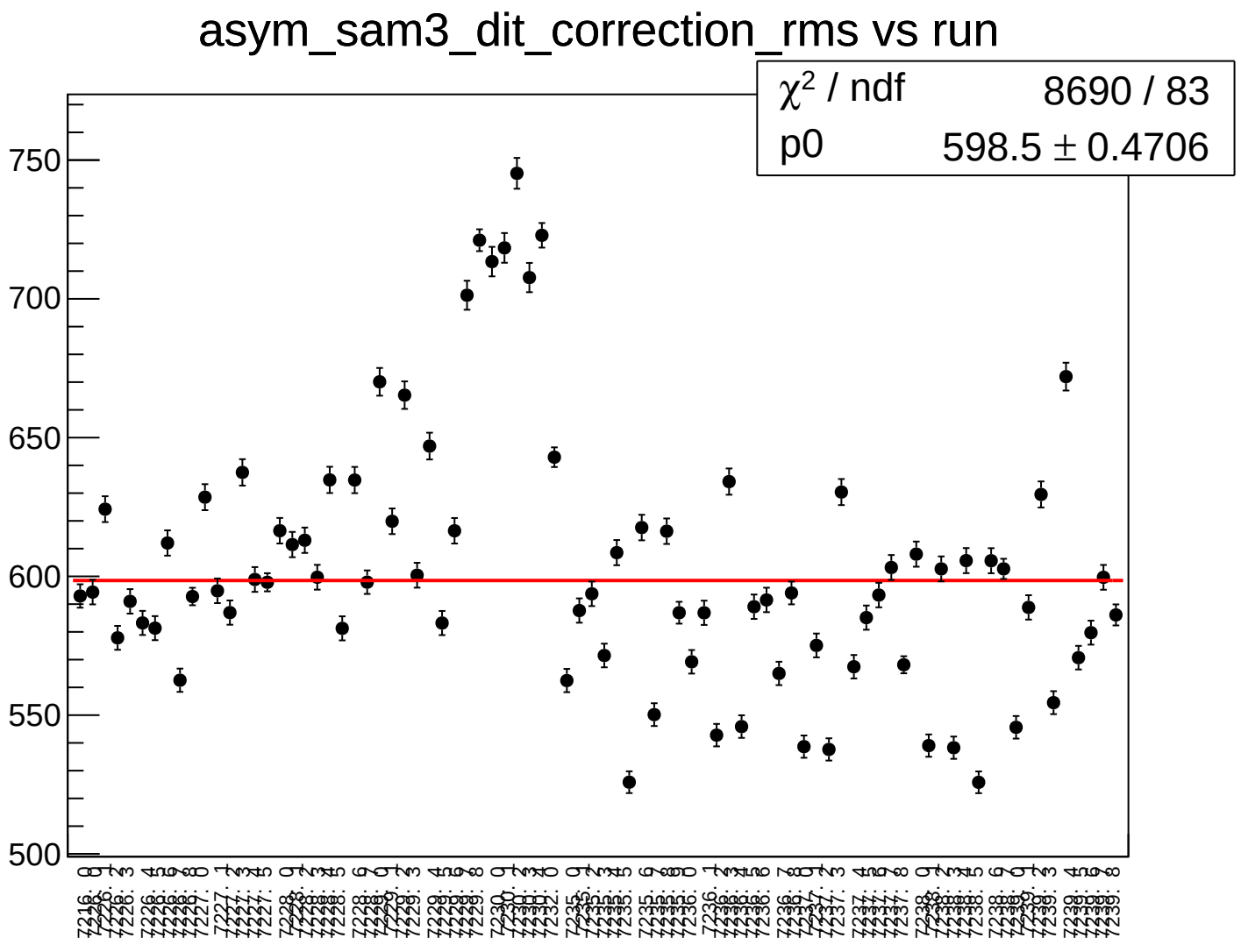

dit_asym_sam3_mean vs run
χ² / ndf 89.43 / 83
p0 −89.68 ± 91.37
pull
Entries 84
Mean 48.58
Std Dev 0

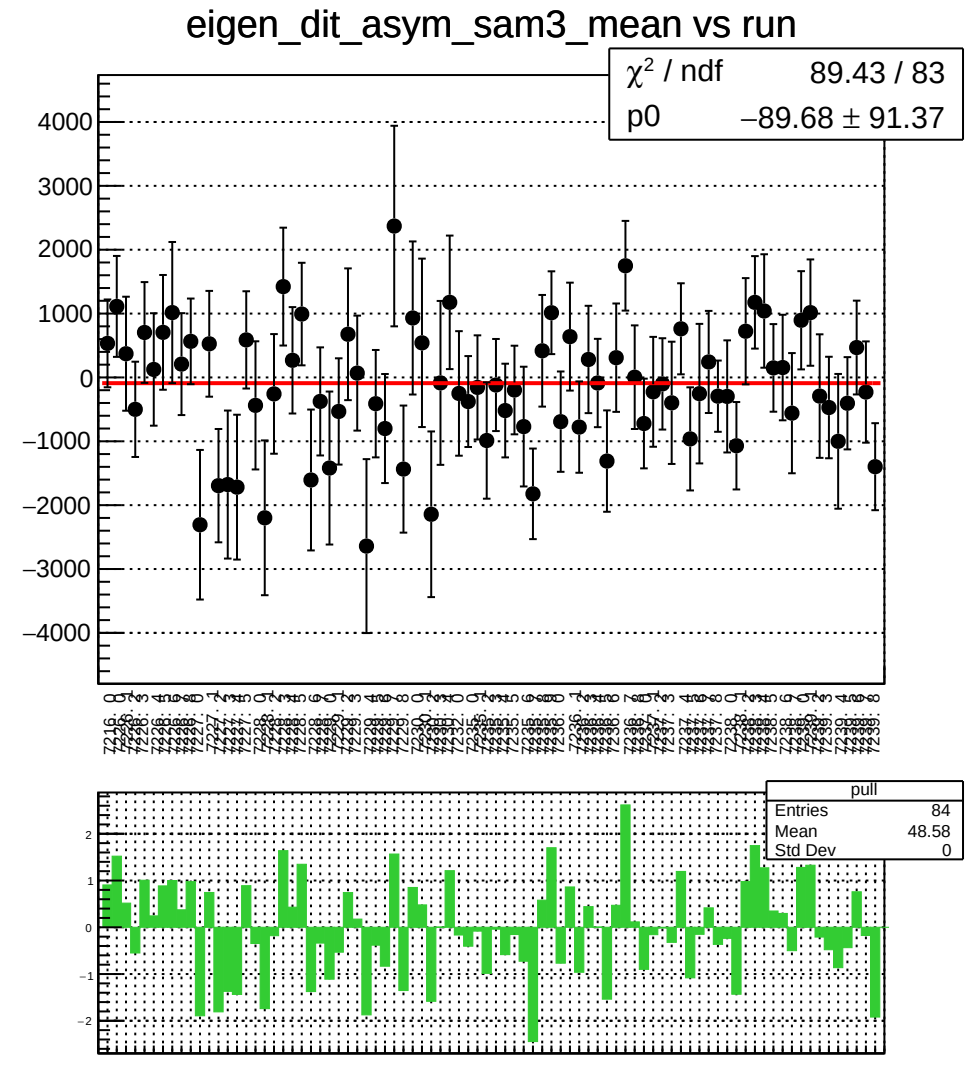

pull1D
Entries 84
Mean −0.03425
Std Dev 1.031

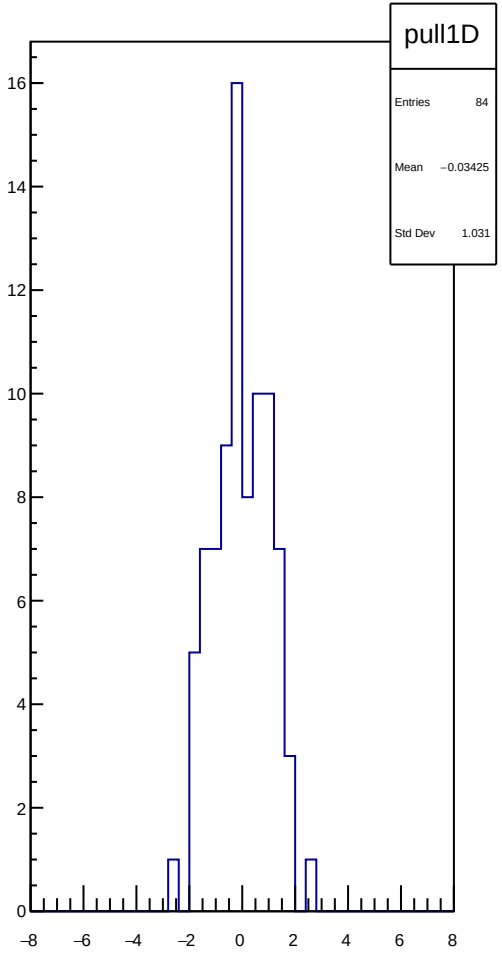

dit_asym_sam3_rms vs run
χ^2 / ndf 5.702e+04 / 83
p0 80.94 ± 0.06461
140
120
100
80
60

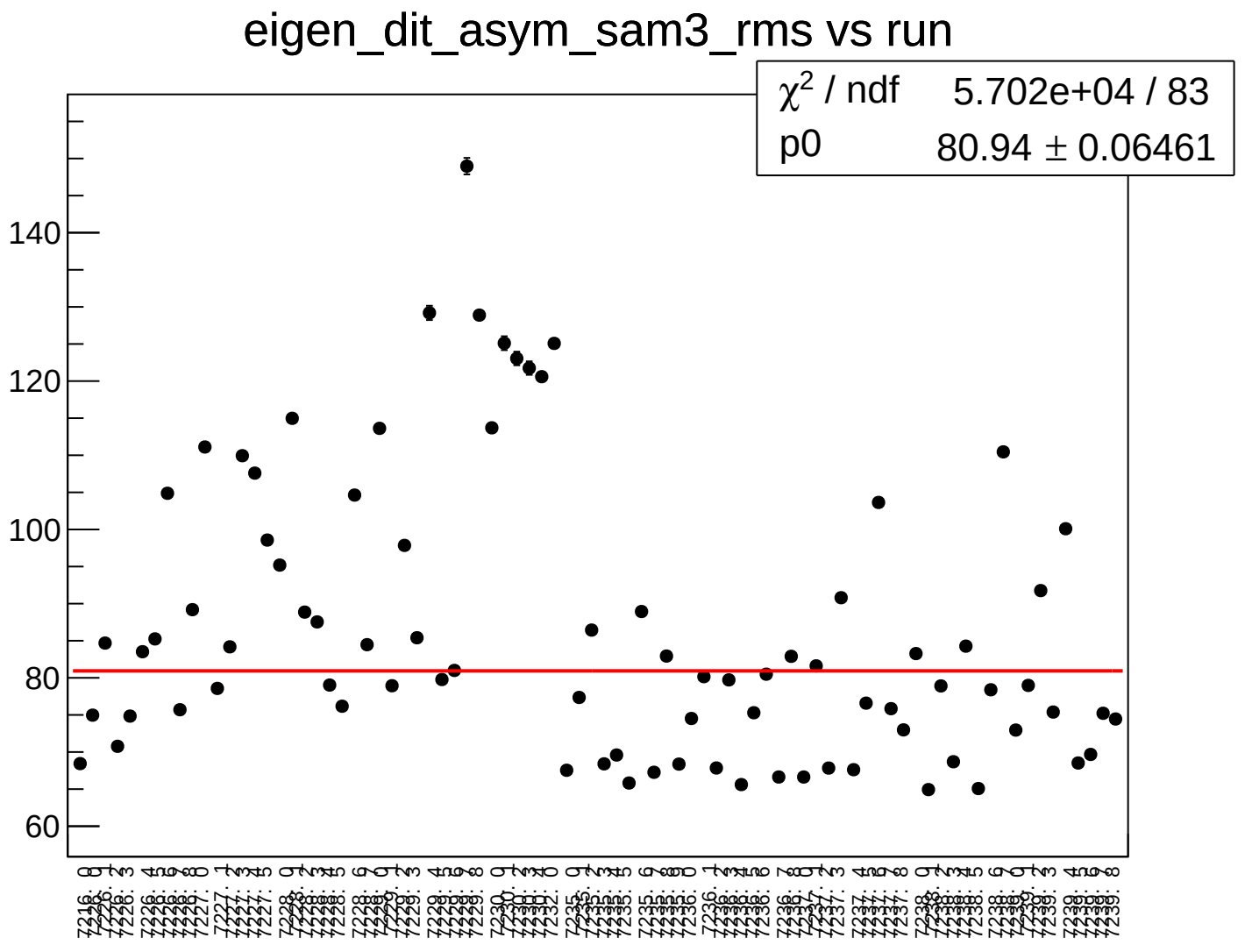

asym_sam3_dit_correction_mean vs run
χ² / ndf 79.73 / 83
p0 −1383 ± 665.5
pull
Entries 84
Mean 93.94
Std Dev 0

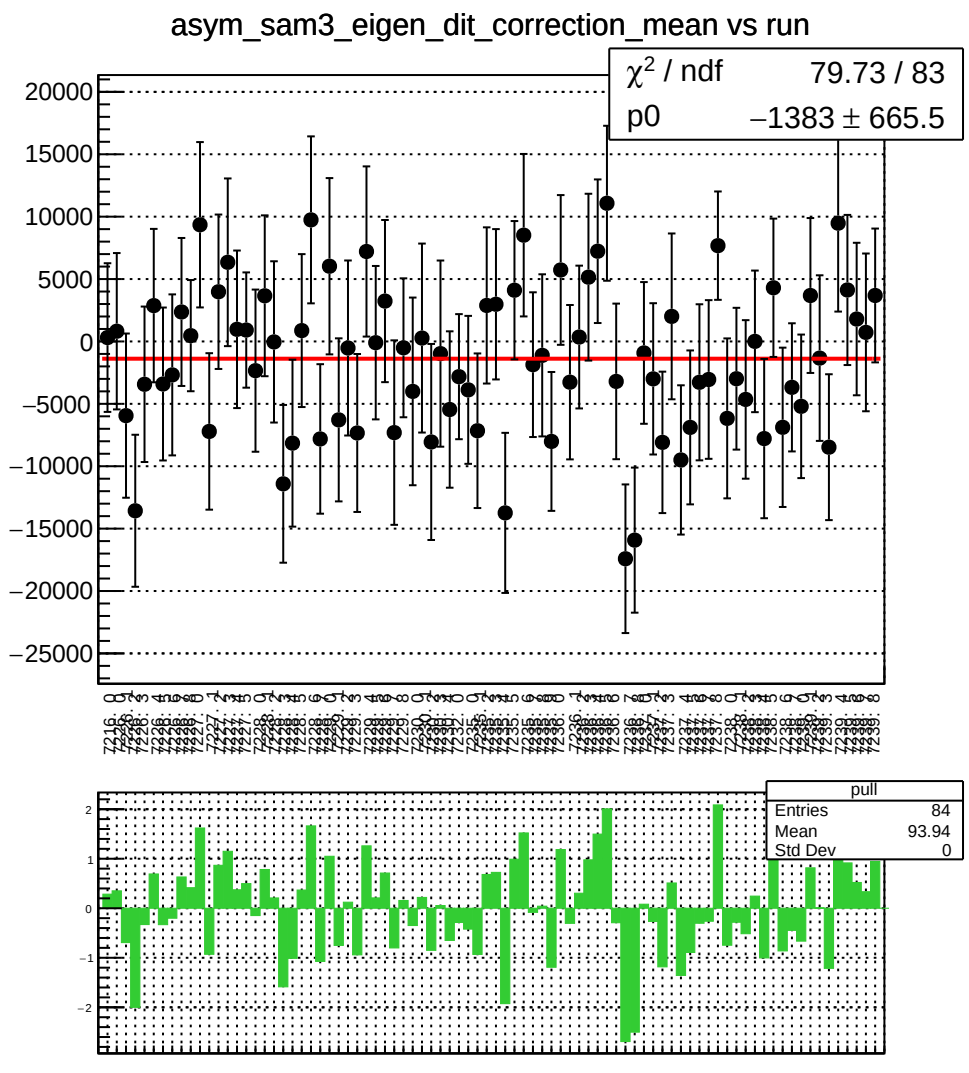

pull1D
Entries 84
Mean −0.00754
Std Dev 0.9742

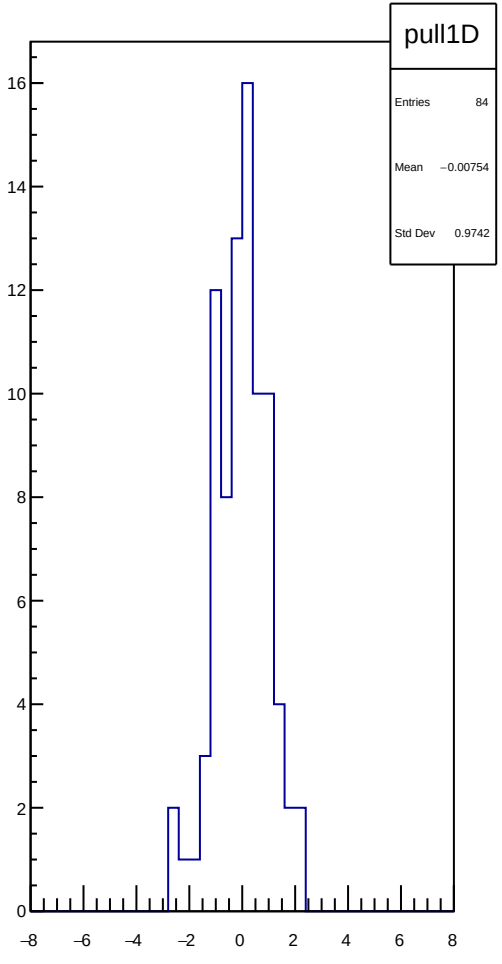

asym_sam3_dit_correction_rms vs run
χ² / ndf 8690 / 83
p0 598.5 ± 0.4706
750
700
650
600
550
500

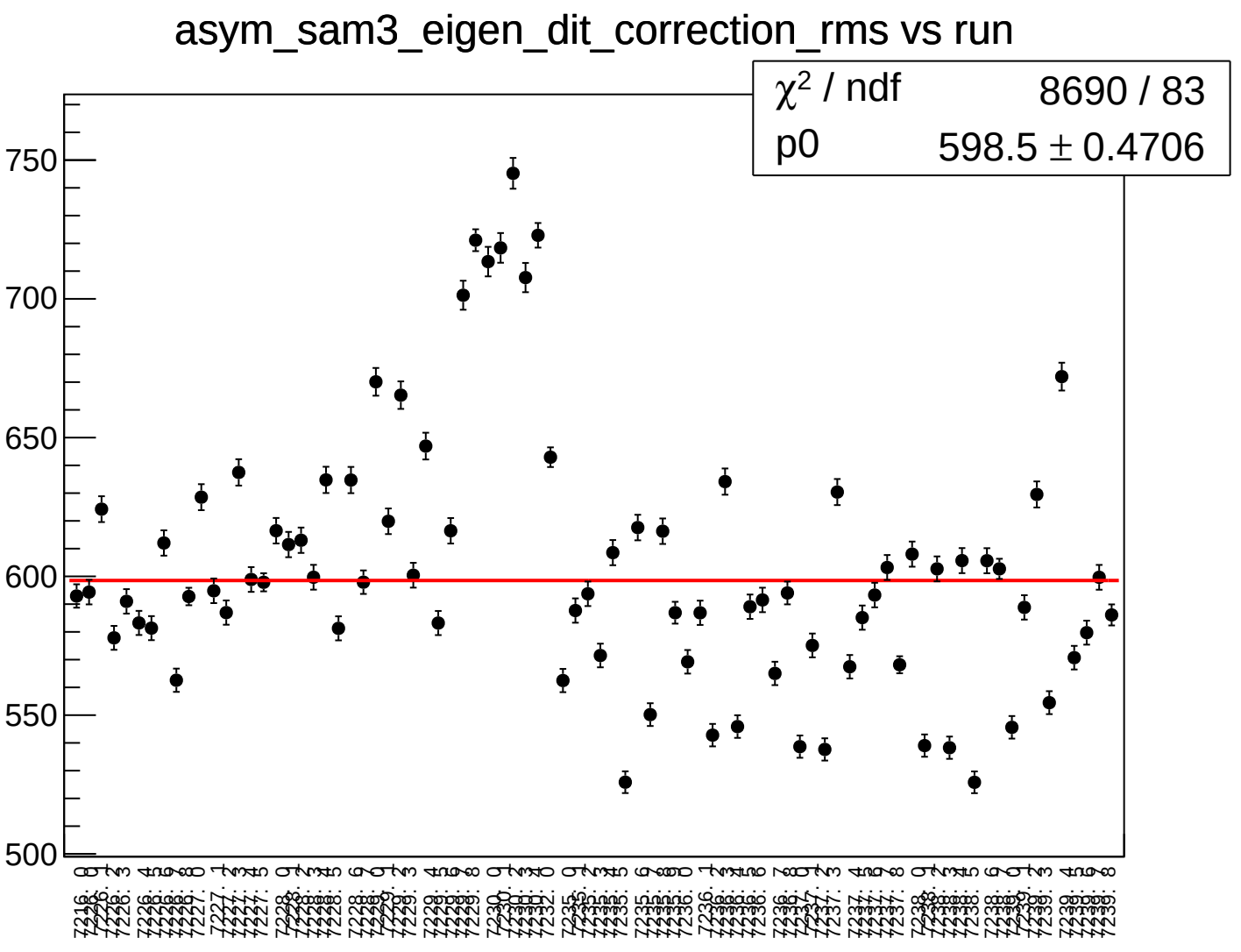

eigen_dit_asym_sam3_mean vs run
χ² / ndf 89.43 / 83
p0 −89.68 ± 91.37
pull
Entries 84
Mean 48.58
Std Dev 0

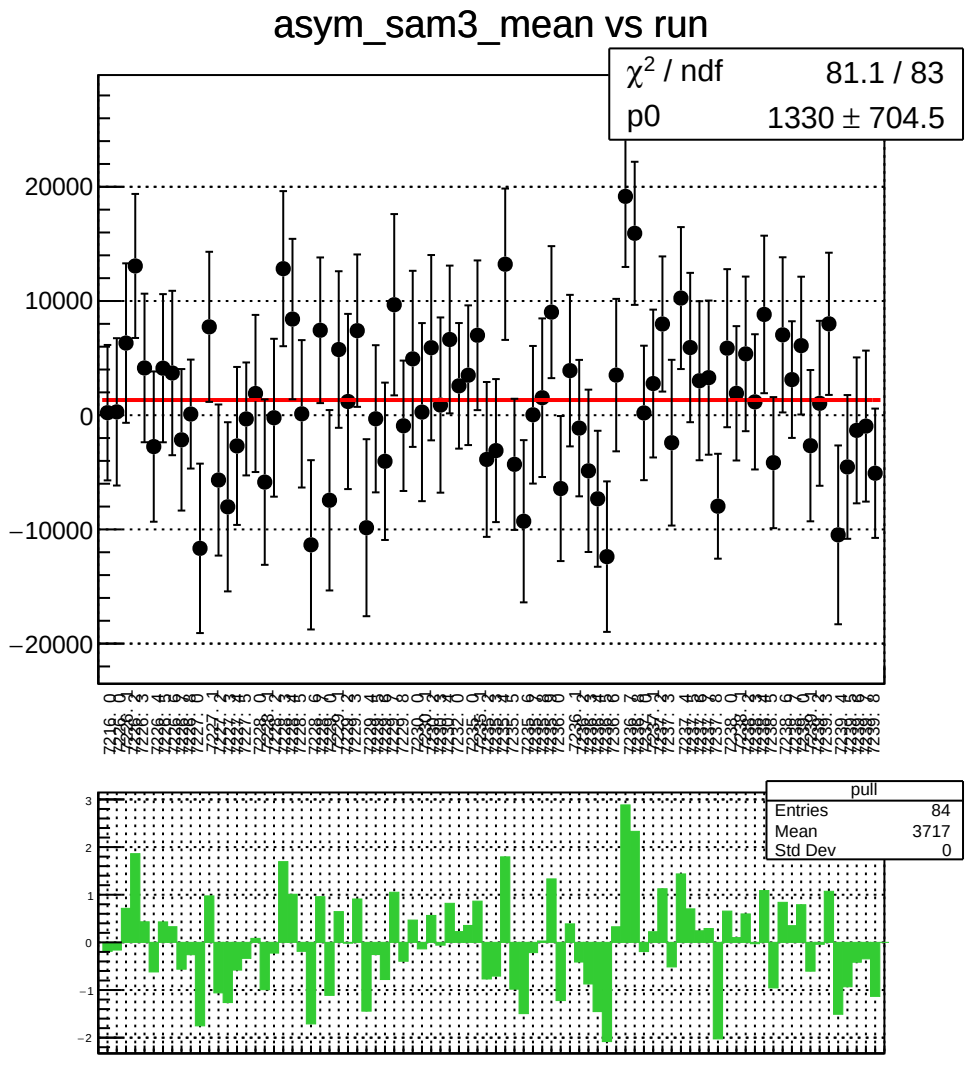

pull1D
Entries 84
Mean −0.03425
Std Dev 1.031

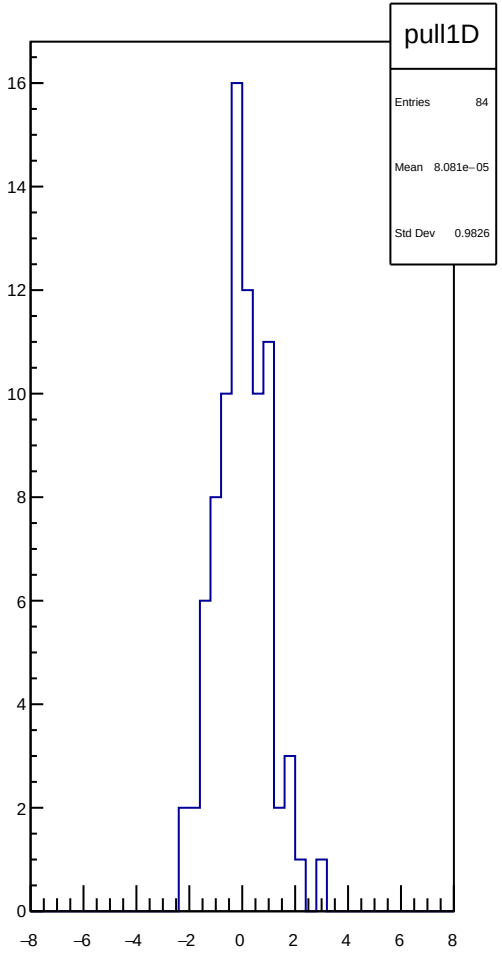

eigen_dit_asym_sam3_rms vs run
χ^2 / ndf 5.702e+04 / 83
p0 80.94 ± 0.06461
140
120
100
80
60

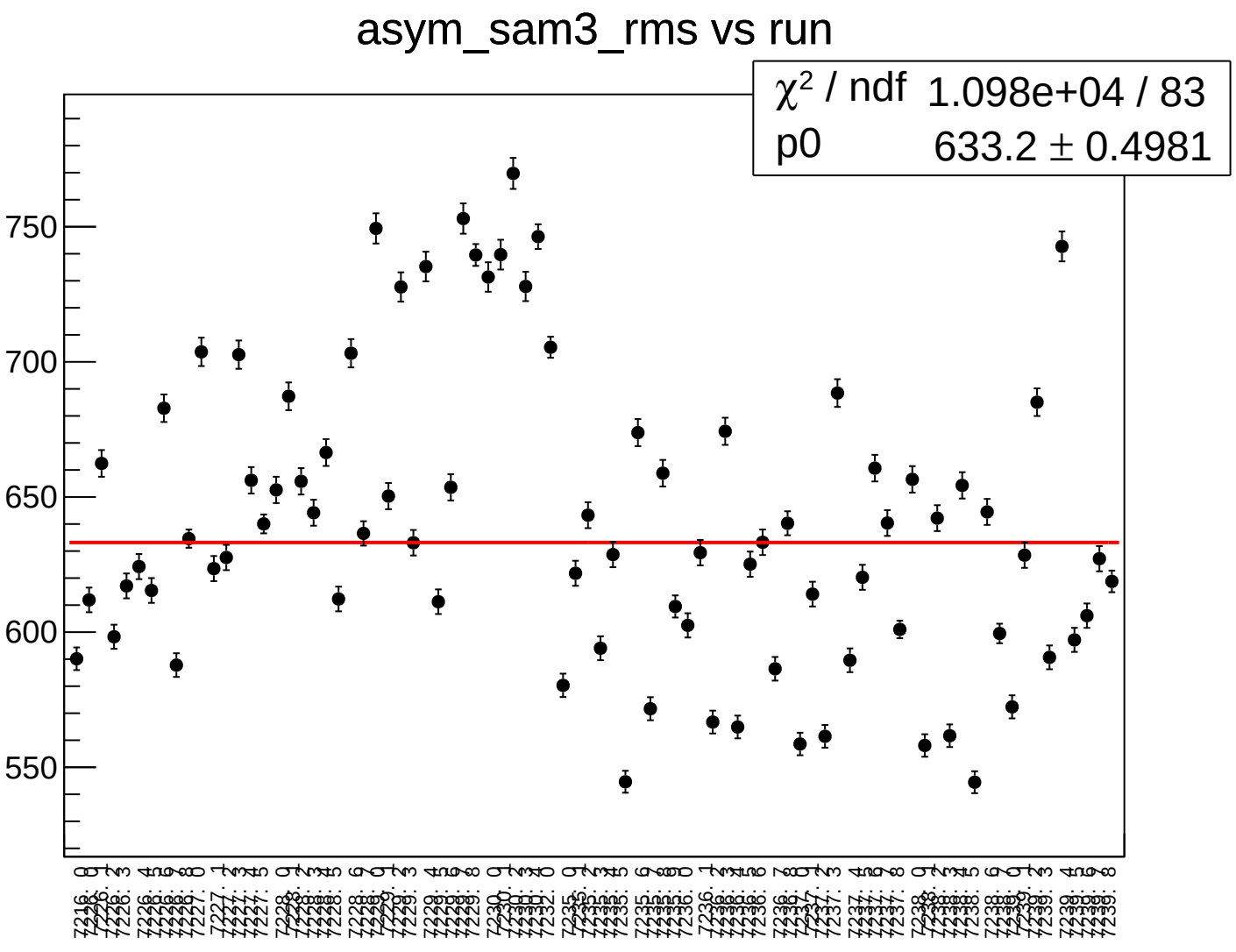

asym_sam3_eigen_dit_correction_mean vs run
χ² / ndf 79.73 / 83
p0 −1383 ± 665.5
pull
Entries 84
Mean 93.94
Std Dev 0

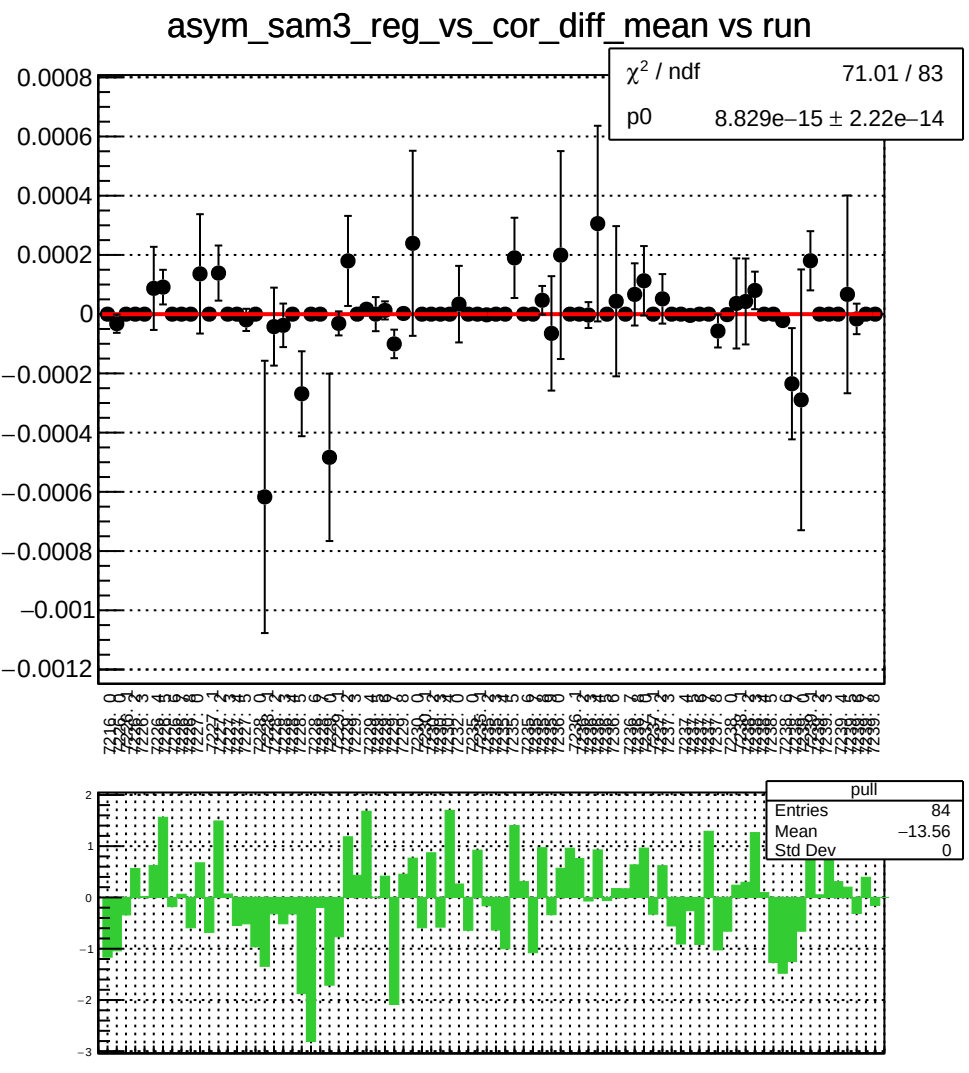

pull1D
Entries 84
Mean −0.00754
Std Dev 0.9742

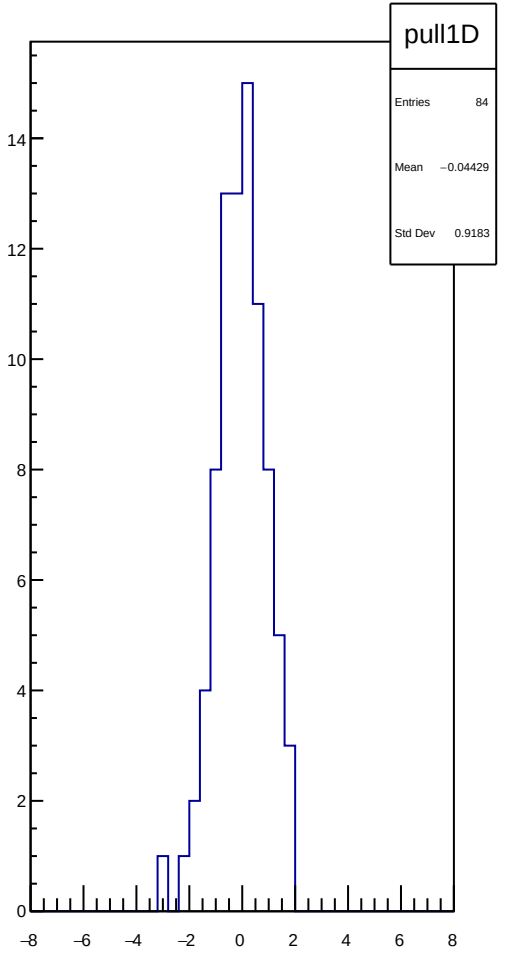

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 8690 / 83
p0 598.5 ± 0.4706
750
700
650
600
550
500

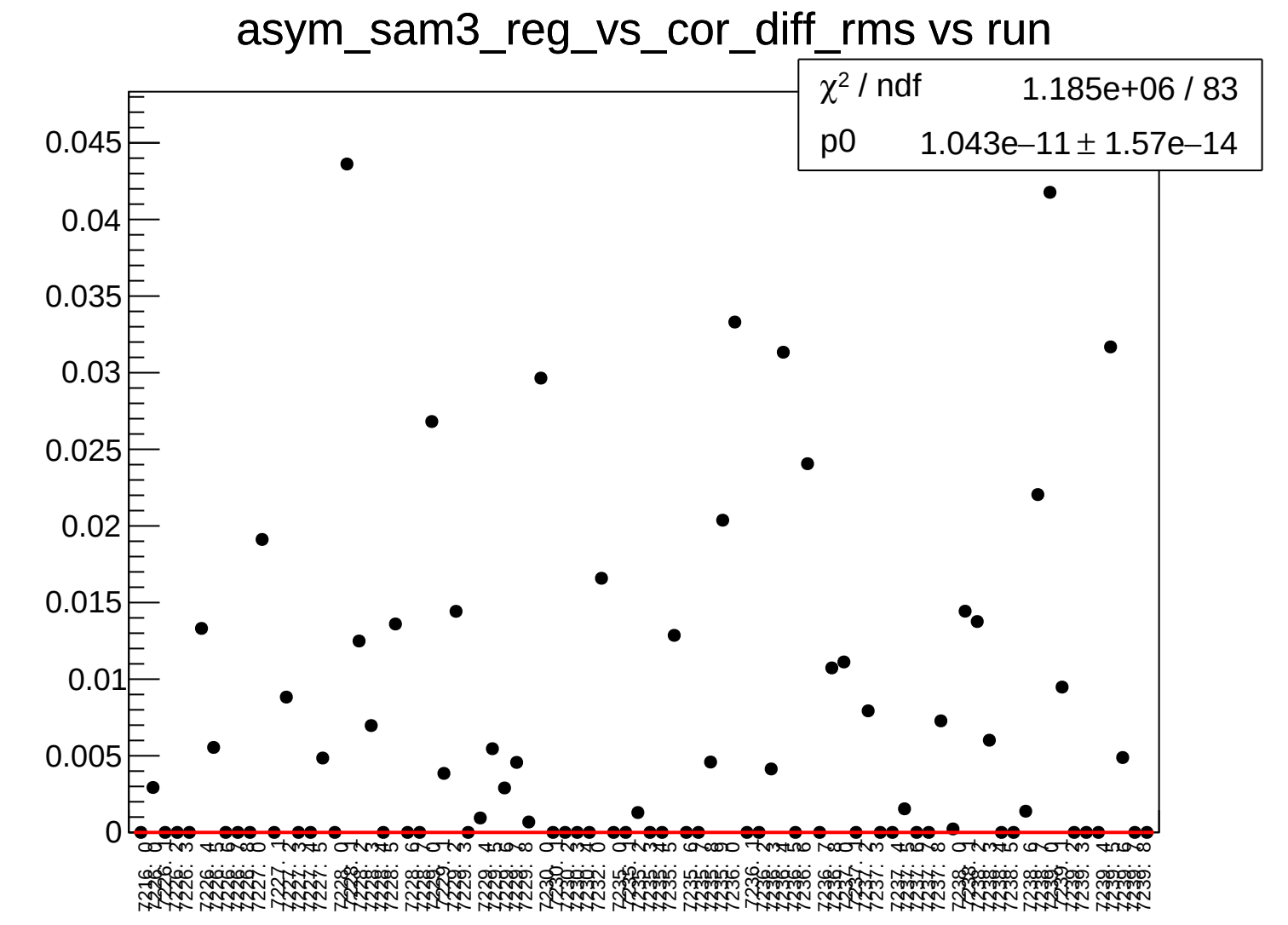

asym_sam3_mean vs run
χ² / ndf 81.1 / 83
p0 1330 ± 704.5
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 3717
Std Dev 0
3
2
1
0
−1
−2

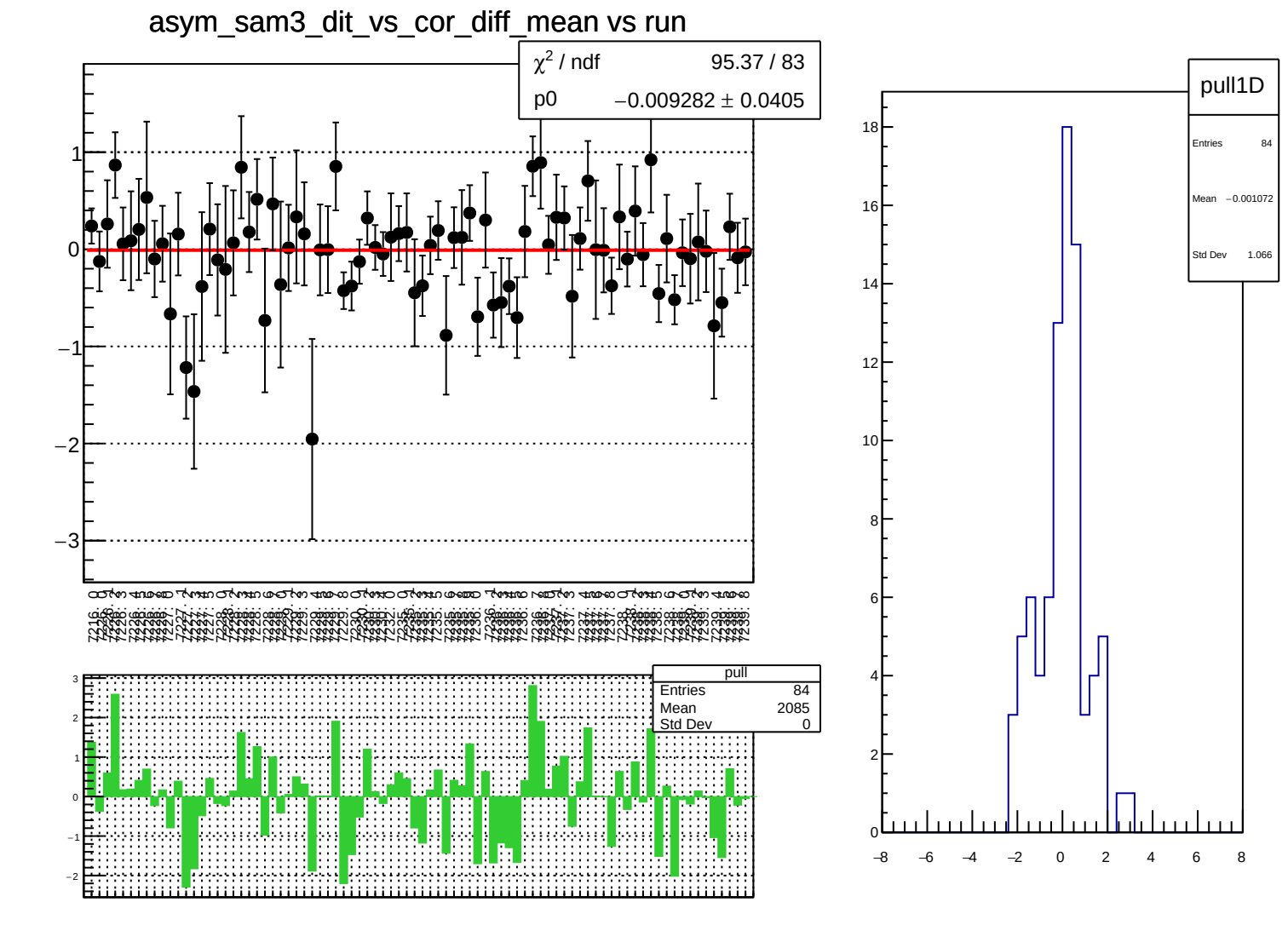

pull1D
Entries 84
Mean 8.081e−05
Std Dev 0.9826
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

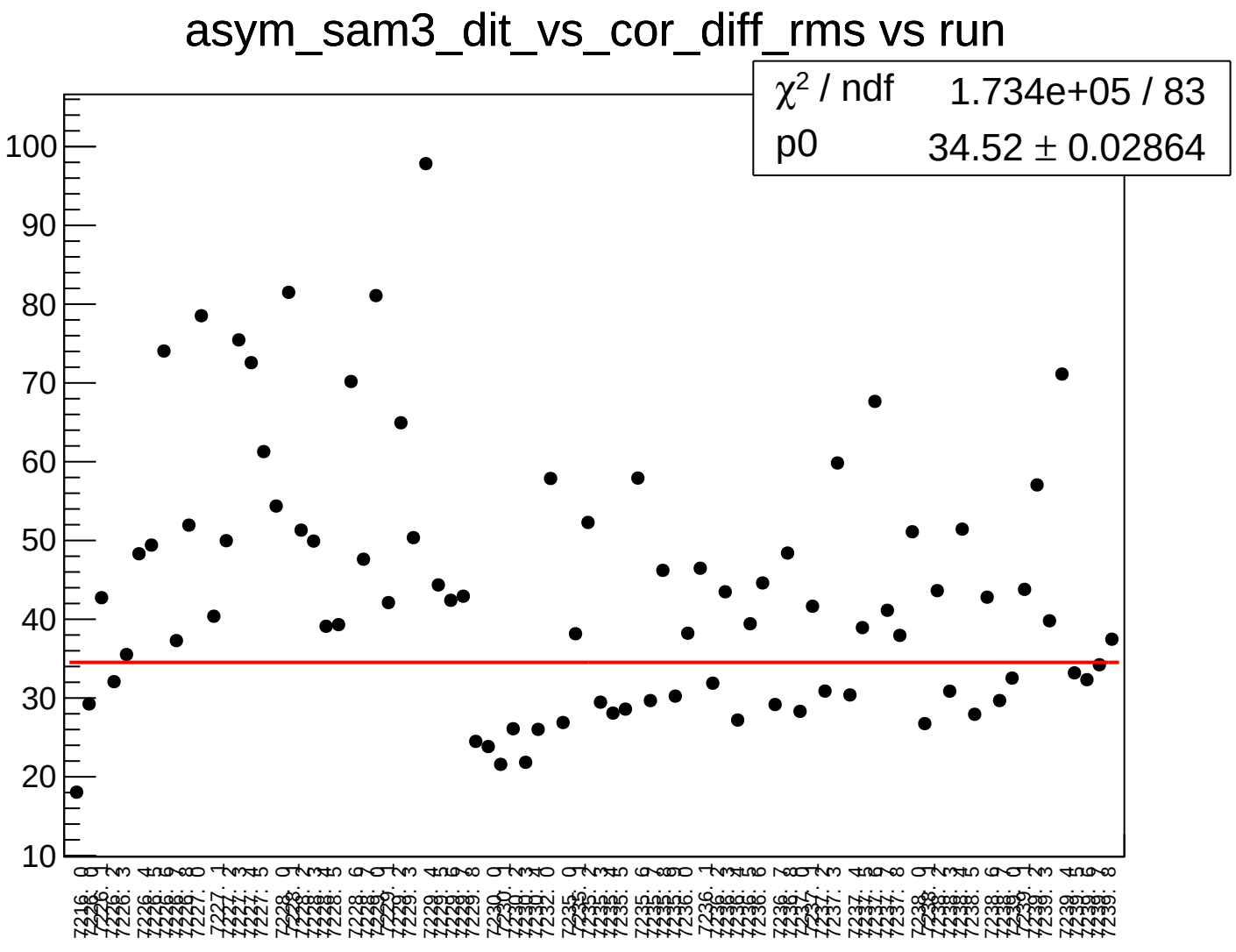

asym_sam3_rms vs run
χ² / ndf 1.098e+04 / 83
p0 633.2 ± 0.4981
750
700
650
600
550

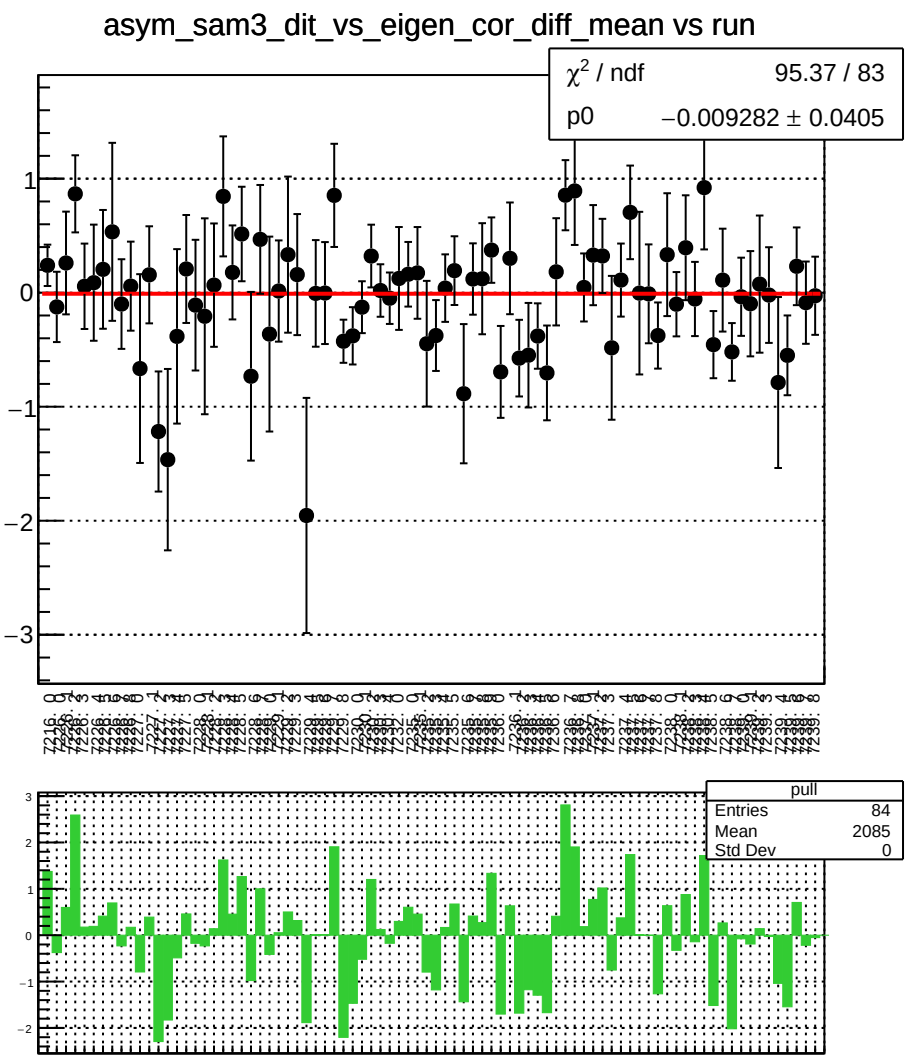

asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 71.01 / 83
p0 8.829e−15 ± 2.22e−14
pull
Entries 84
Mean −13.56
Std Dev 0

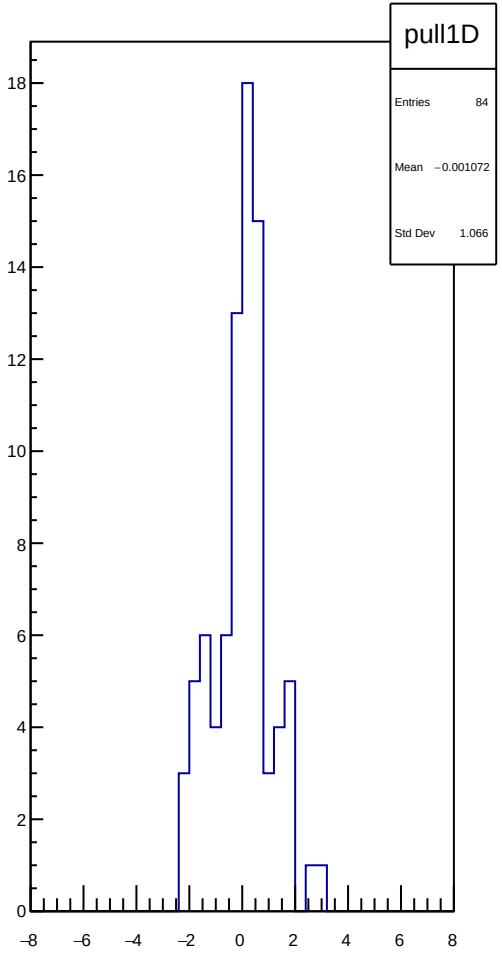

pull1D
Entries 84
Mean −0.04429
Std Dev 0.9183

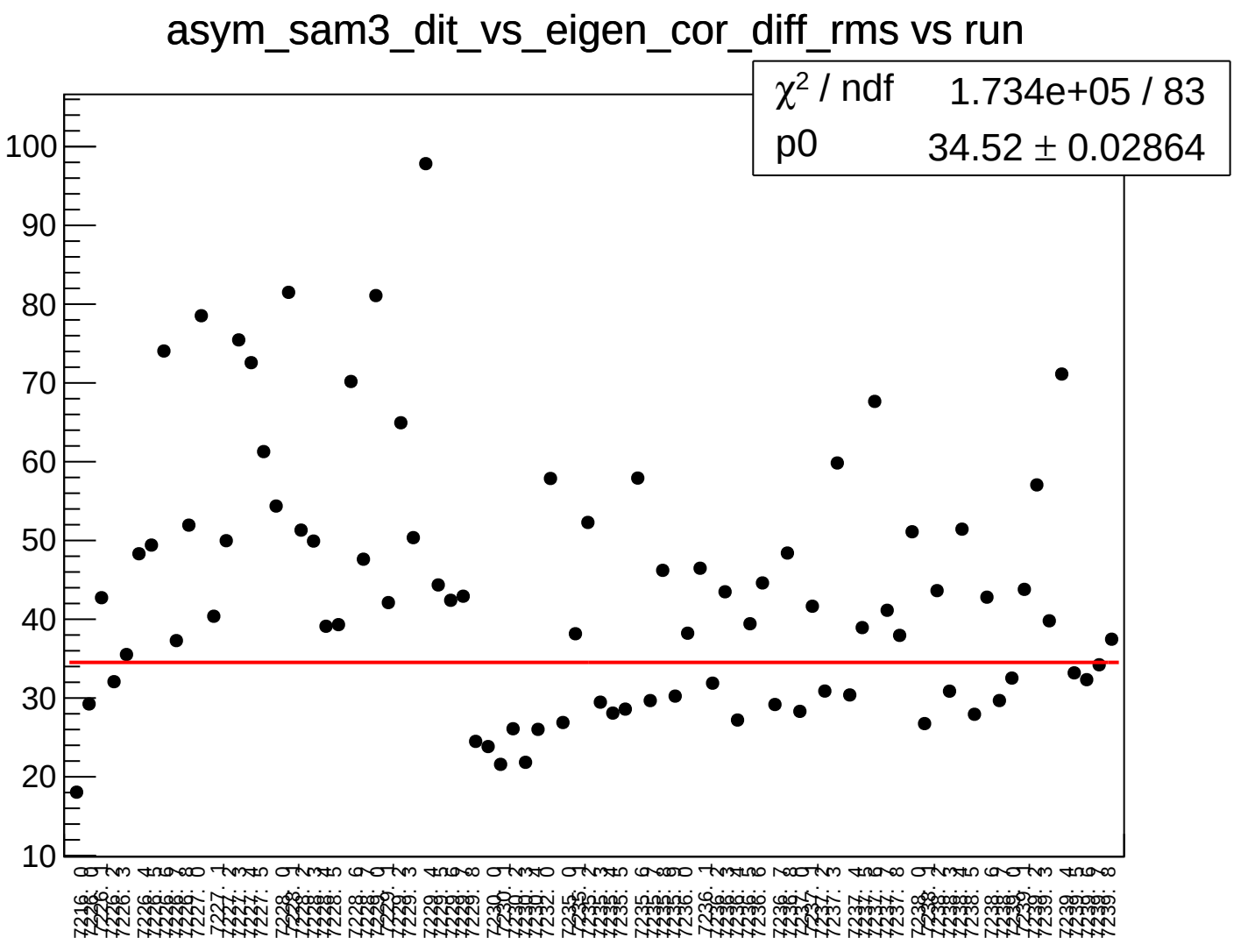

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 1.185e+06 / 83
p0 1.043e−11 ± 1.57e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

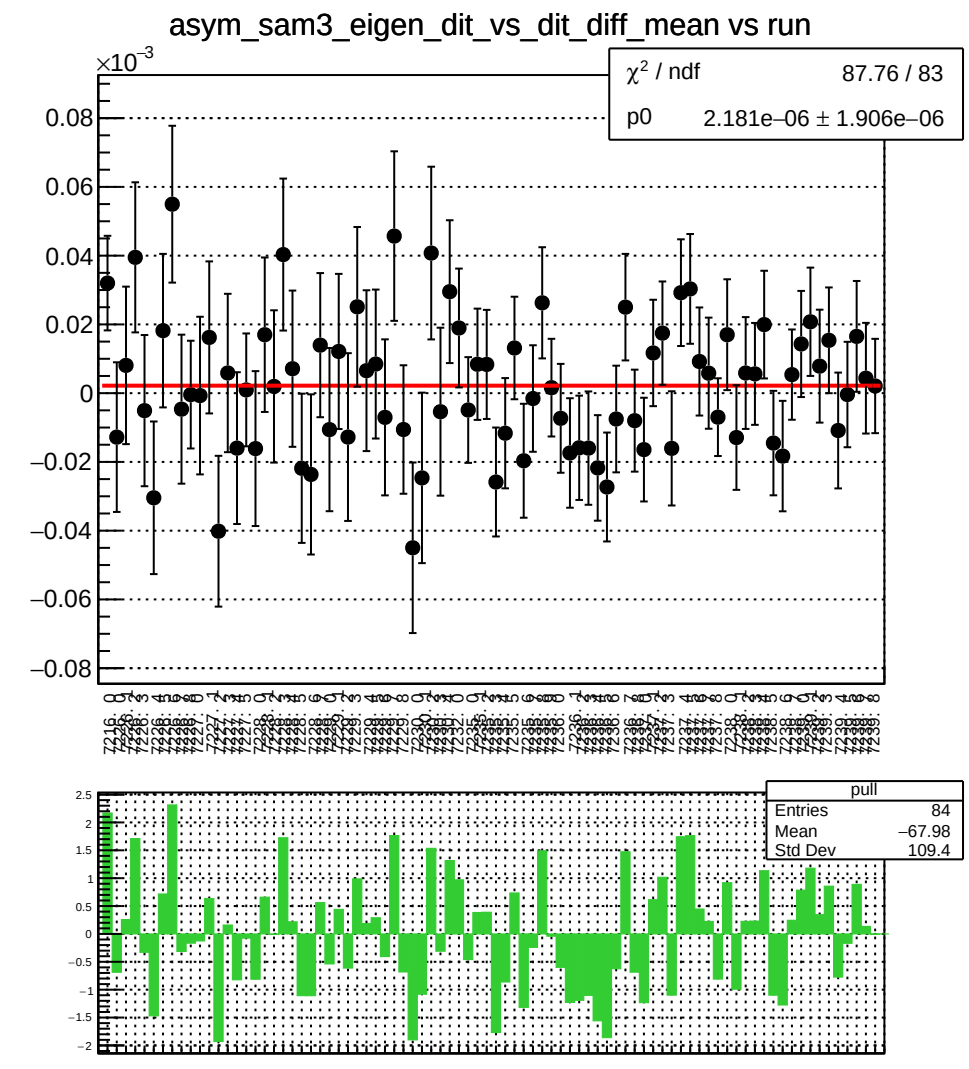

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 95.37 / 83
p0 −0.009282 ± 0.0405
pull
Entries 84
Mean 2085
Std Dev 0
pull1D
Entries 84
Mean −0.001072
Std Dev 1.066

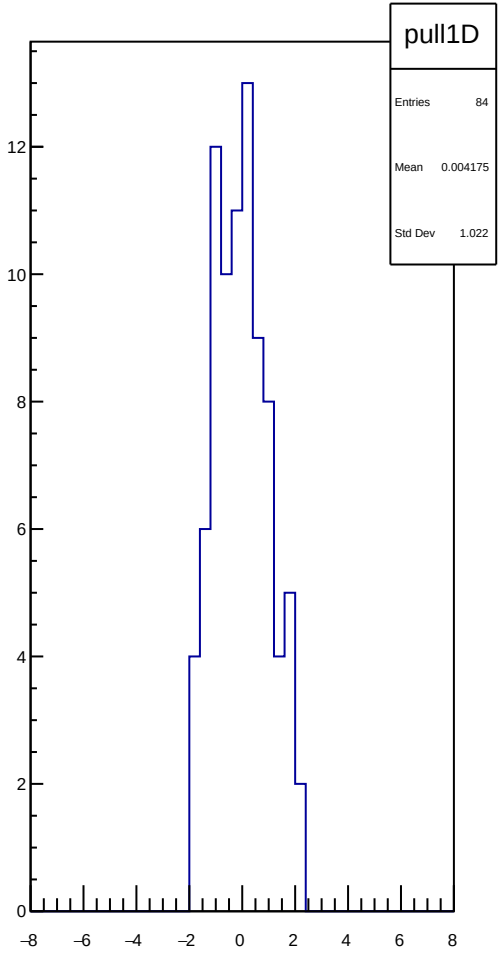

asym_sam3_dit_vs_cor_diff_rms vs run
χ² / ndf 1.734e+05 / 83
p0 34.52 ± 0.02864
100
90
80
70
60
50
40
30
20
10

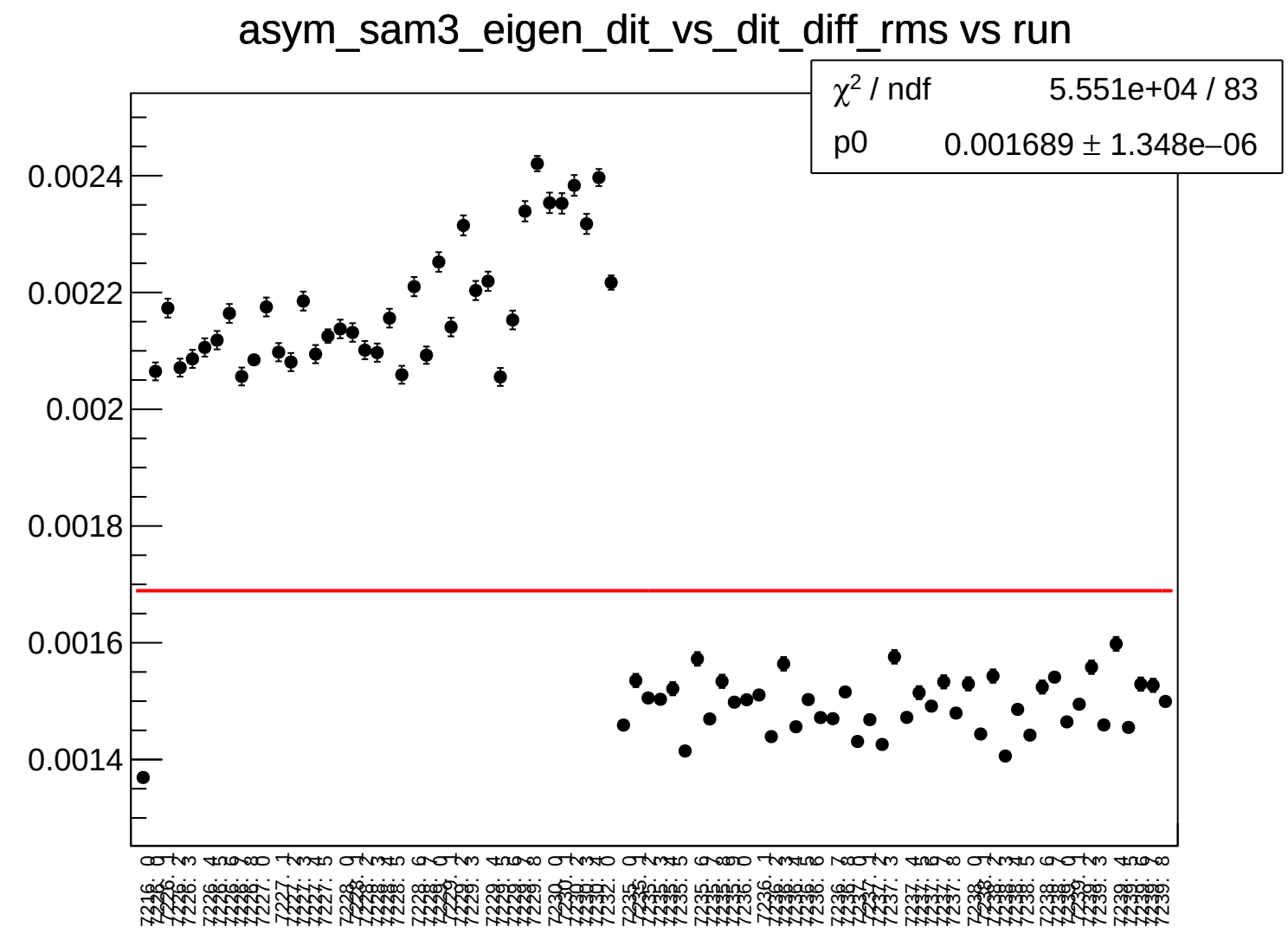

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.37 / 83
p0 −0.009282 ± 0.0405
pull
Entries 84
Mean 2085
Std Dev 0

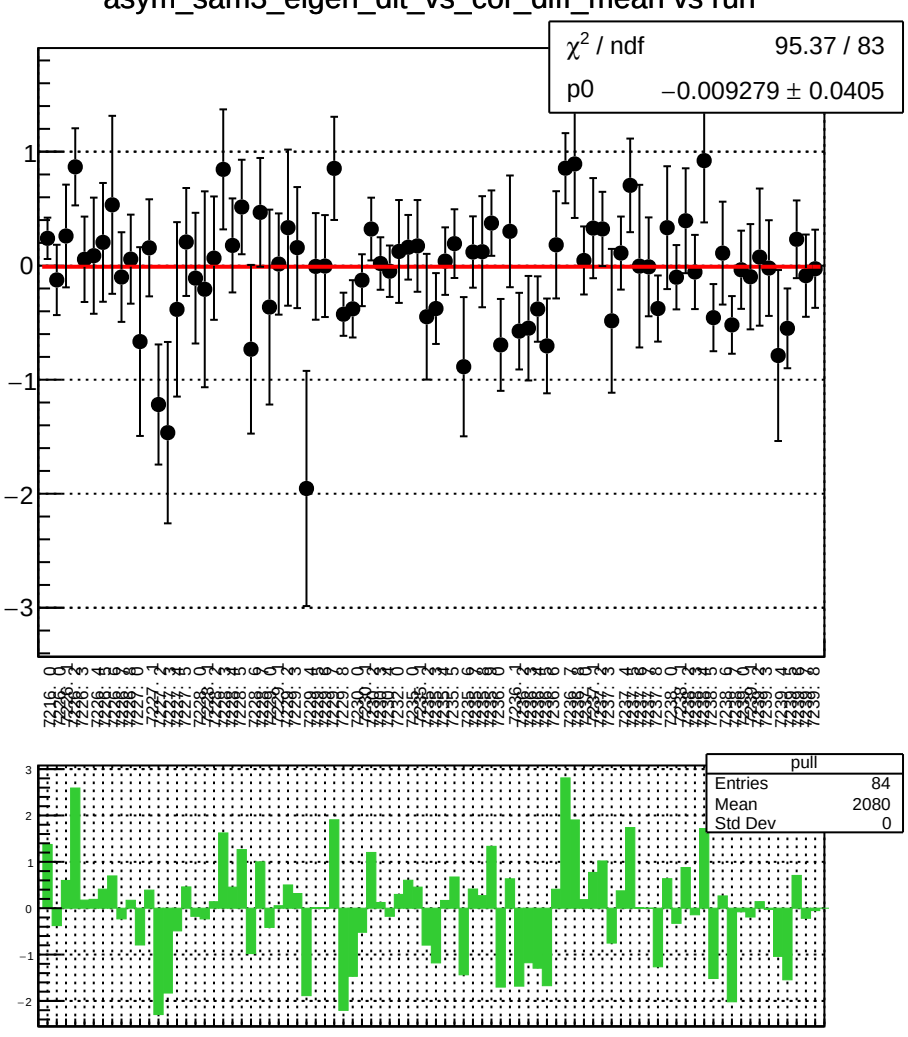

pull1D
Entries 84
Mean −0.001072
Std Dev 1.066

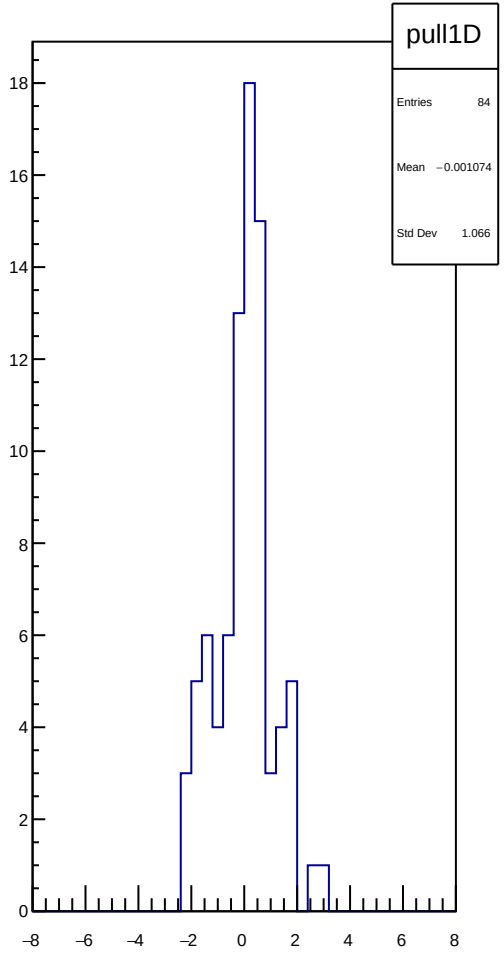

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.734e+05 / 83
p0 34.52 ± 0.02864
100
90
80
70
60
50
40
30
20
10

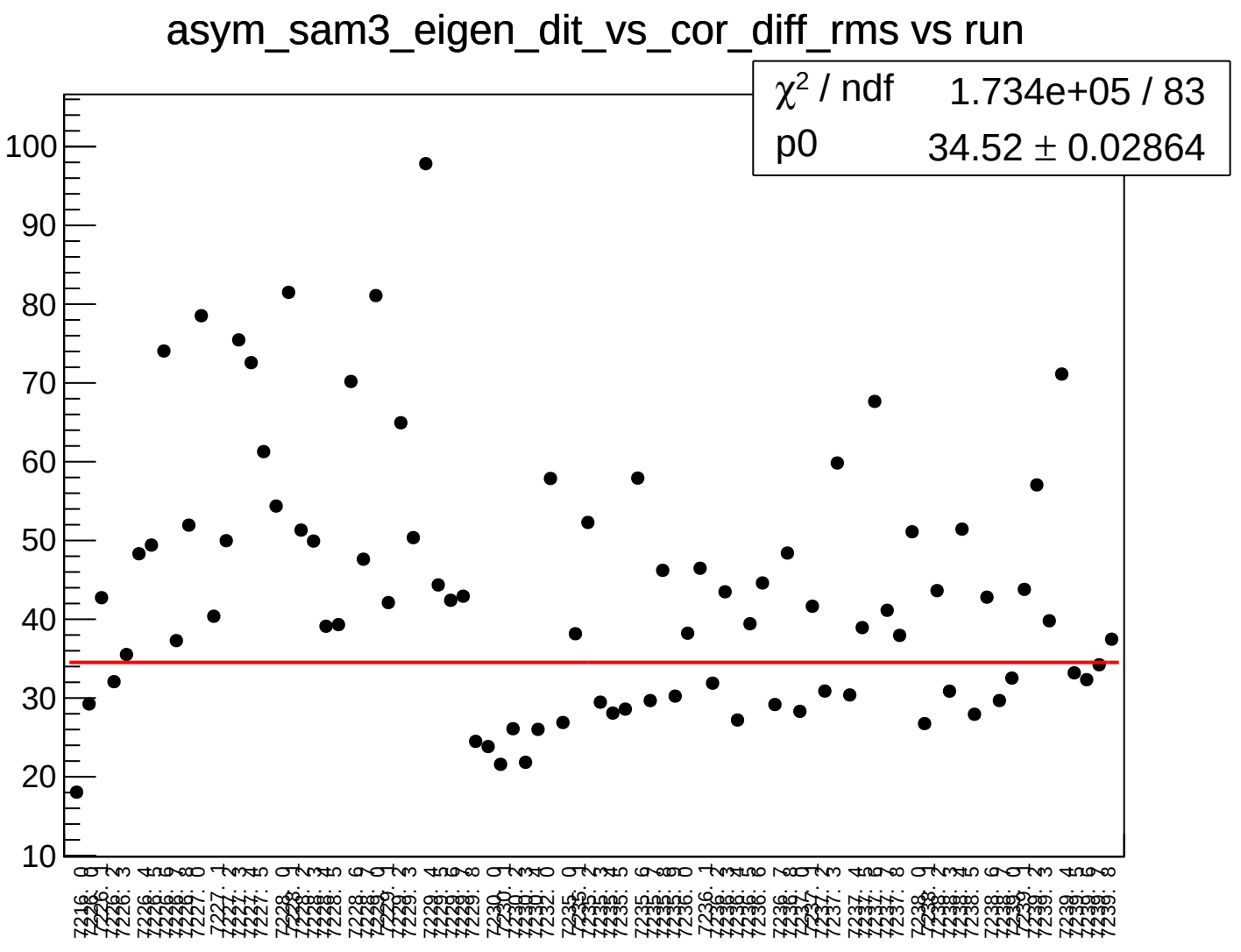

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.76 / 83
p0 2.181e−06 ± 1.906e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 84
Mean −67.98
Std Dev 109.4
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

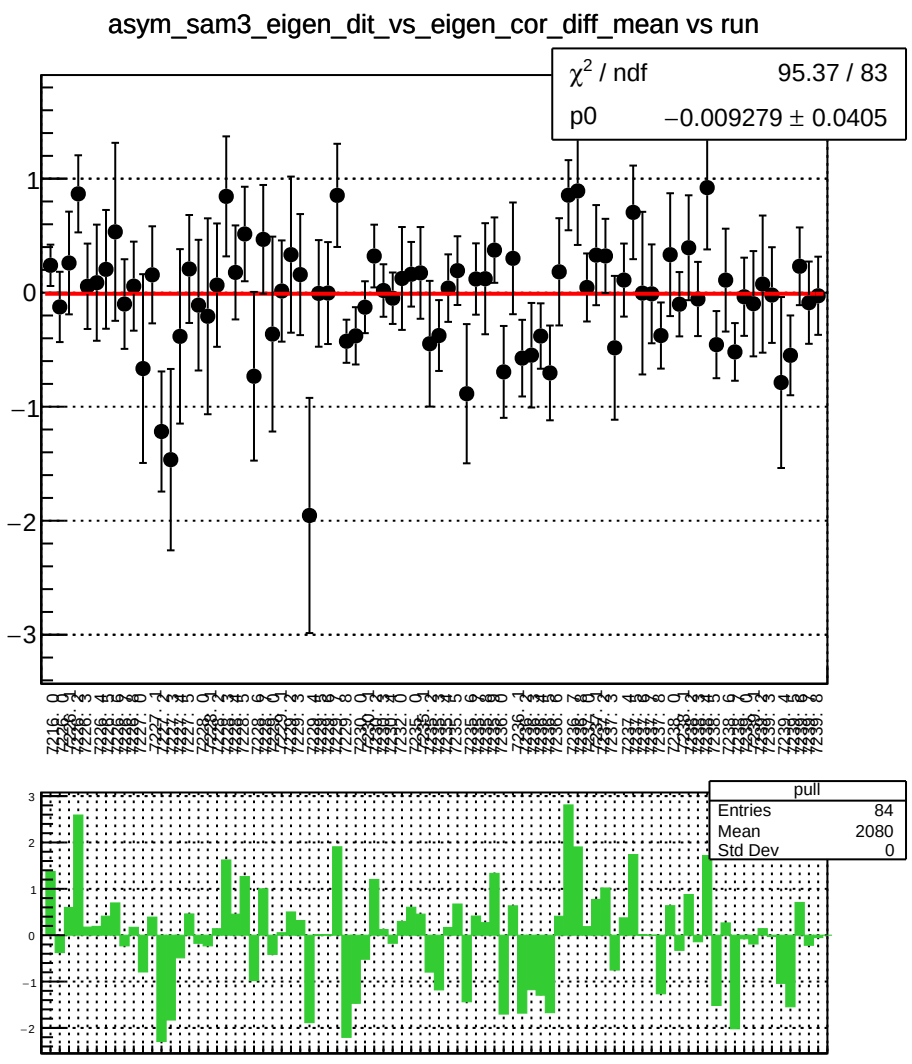

pull1D
Entries 84
Mean 0.004175
Std Dev 1.022
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

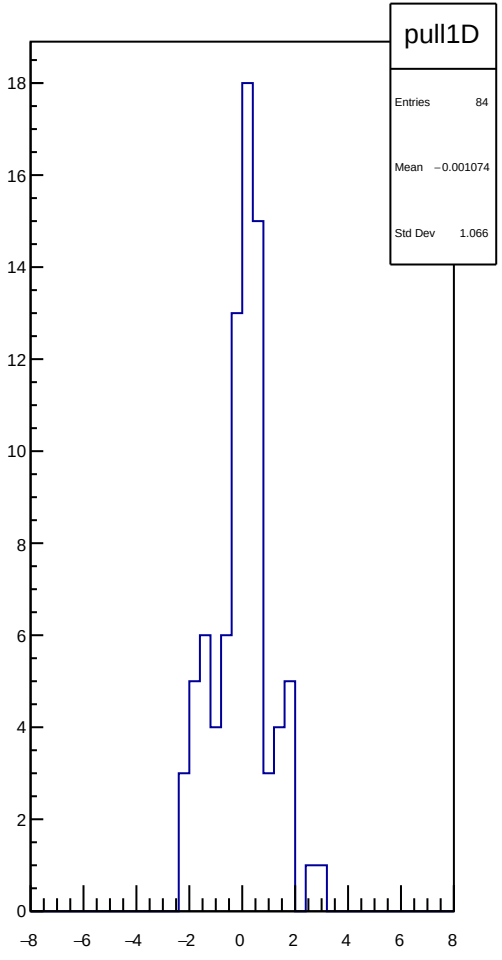

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.551e+04 / 83
p0 0.001689 ± 1.348e−06
0.0024
0.0022
0.002
0.0018
0.0016
0.0014

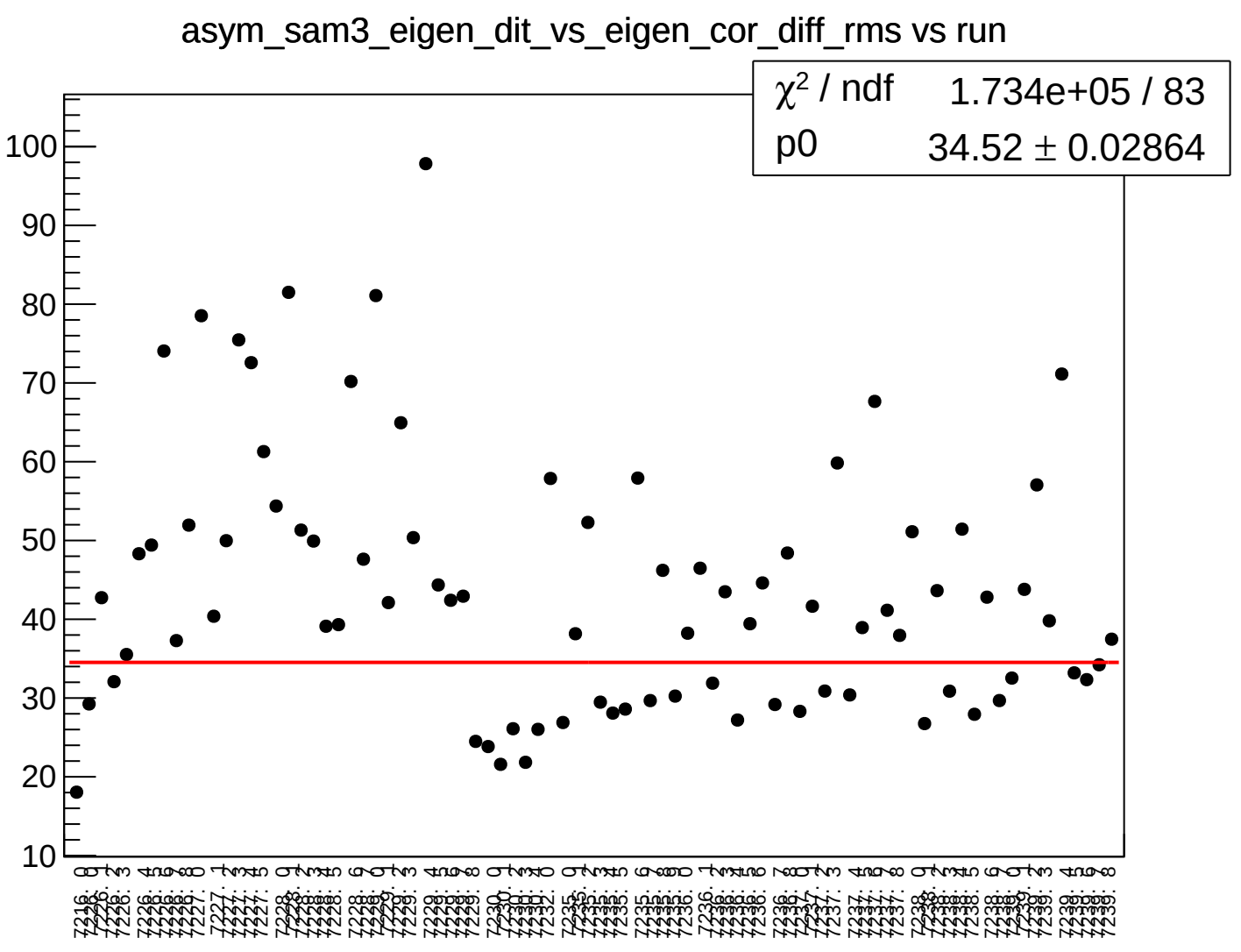

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.37 / 83
p0 −0.009279 ± 0.0405
pull
Entries 84
Mean 2080
Std Dev 0

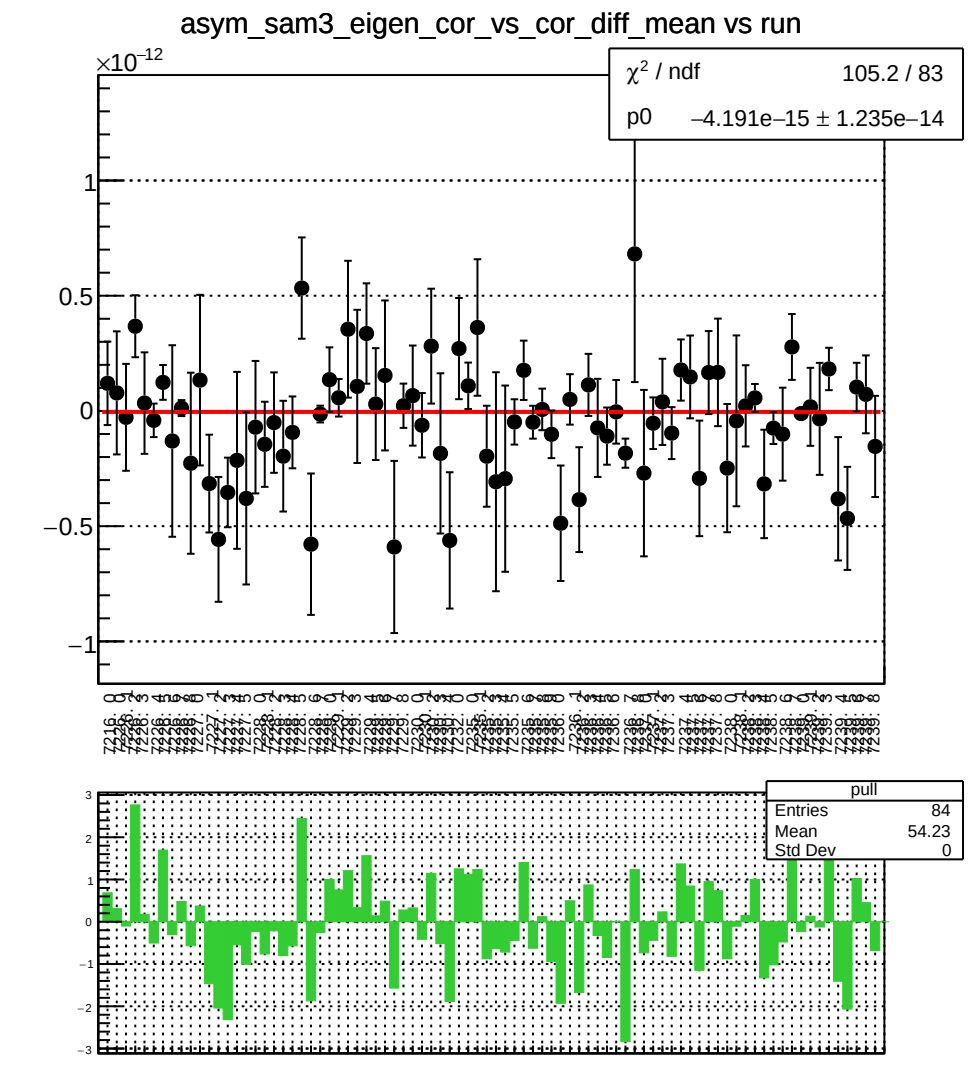

pull1D
Entries 84
Mean −0.001074
Std Dev 1.066

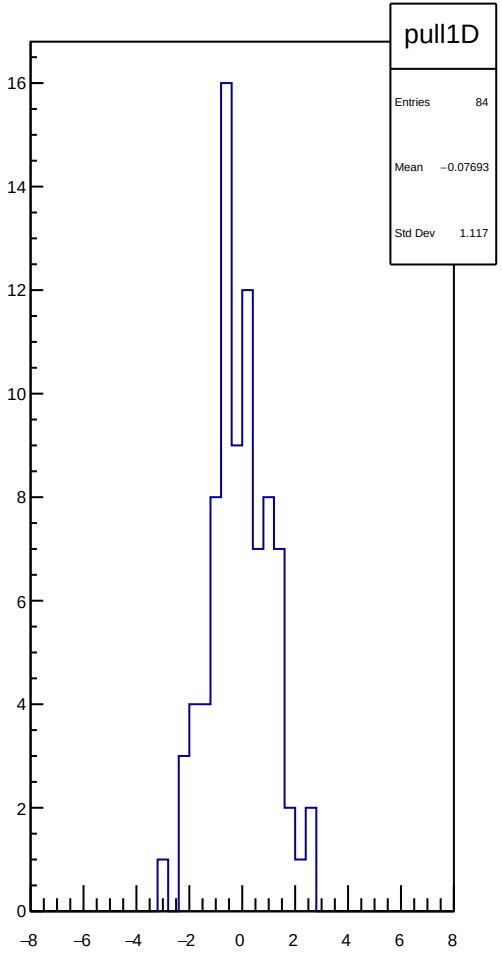

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.734e+05 / 83
p0 34.52 ± 0.02864
100
90
80
70
60
50
40
30
20
10

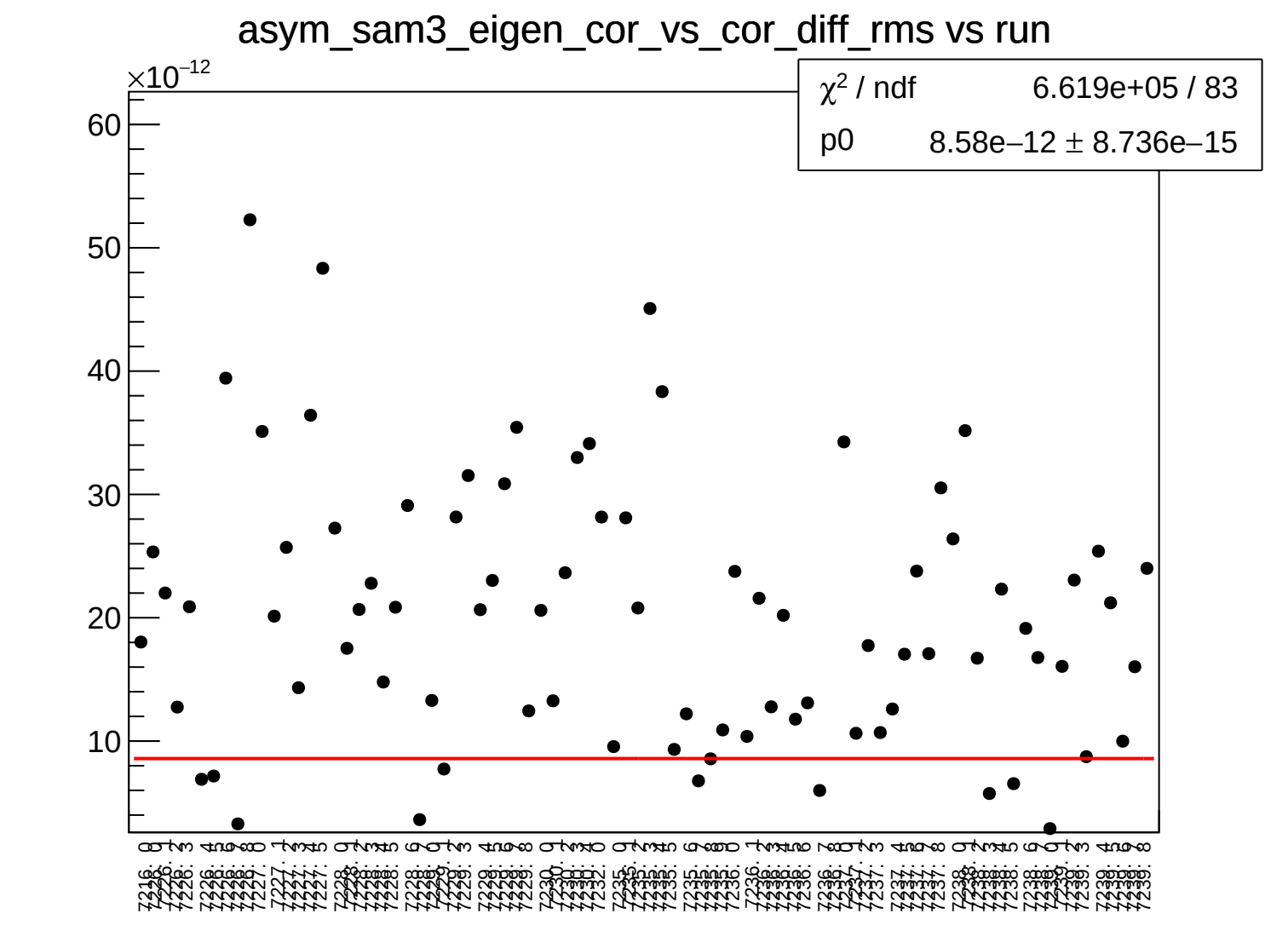

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.37 / 83
p0 −0.009279 ± 0.0405
pull
Entries 84
Mean 2080
Std Dev 0

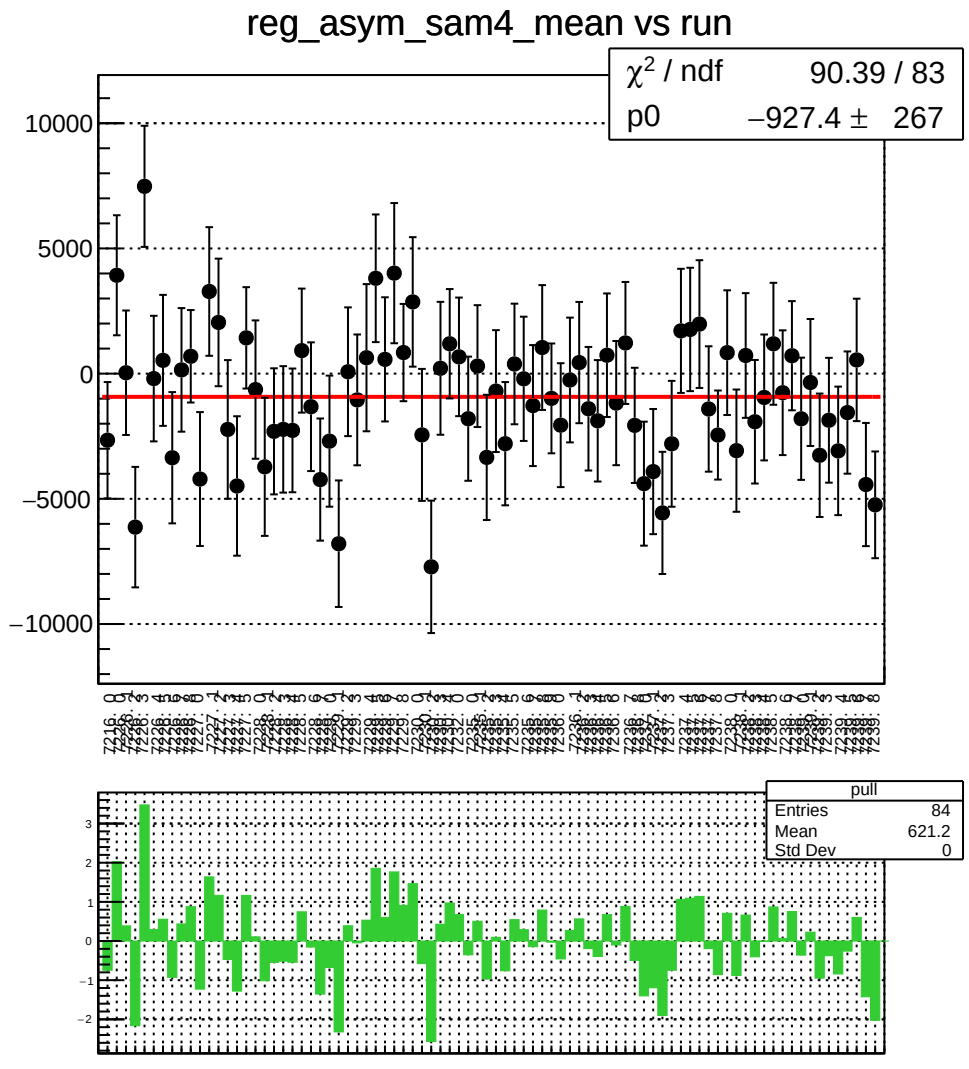

pull1D
Entries 84
Mean −0.001074
Std Dev 1.066

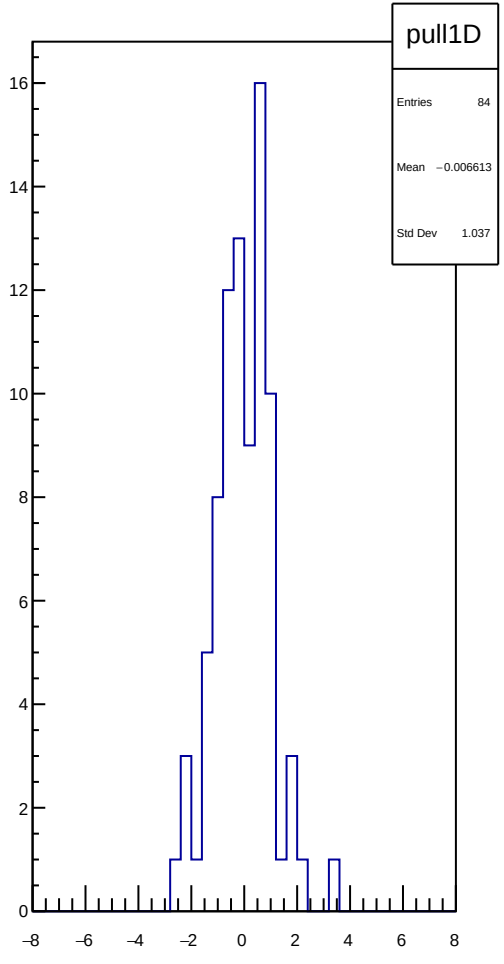

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.734e+05 / 83
p0 34.52 ± 0.02864
100
90
80
70
60
50
40
30
20
10

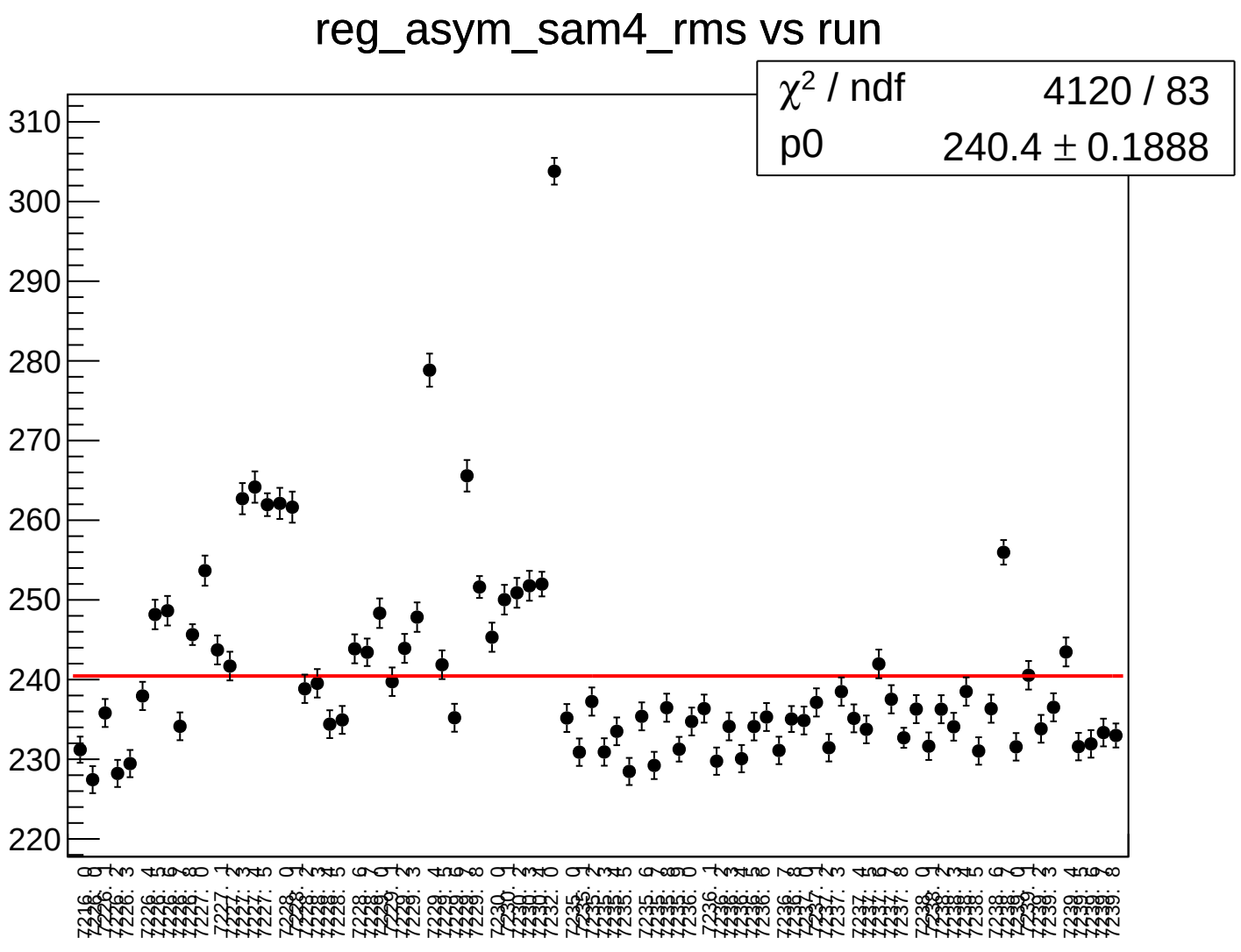

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 105.2 / 83
p0 −4.191e−15 ± 1.235e−14
pull
Entries 84
Mean 54.23
Std Dev 0

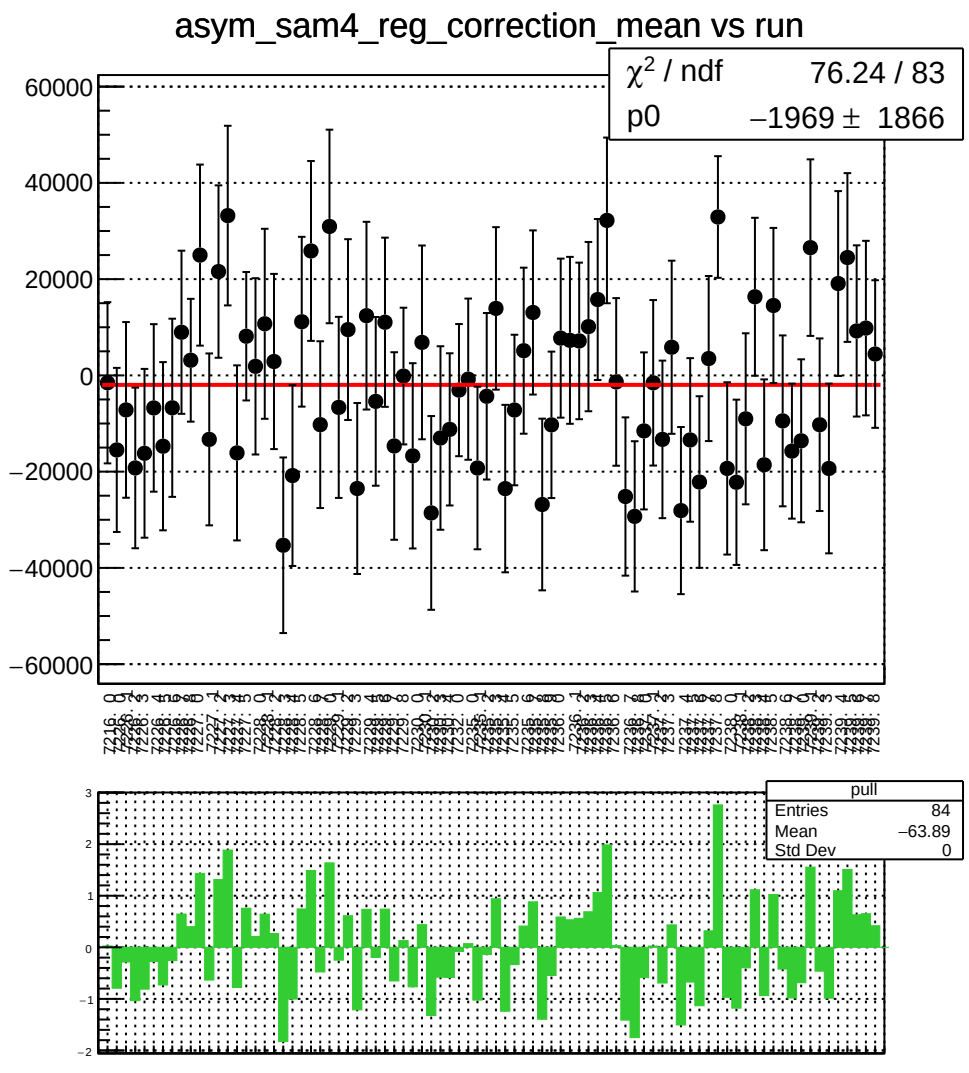

pull1D
Entries 84
Mean −0.07693
Std Dev 1.117

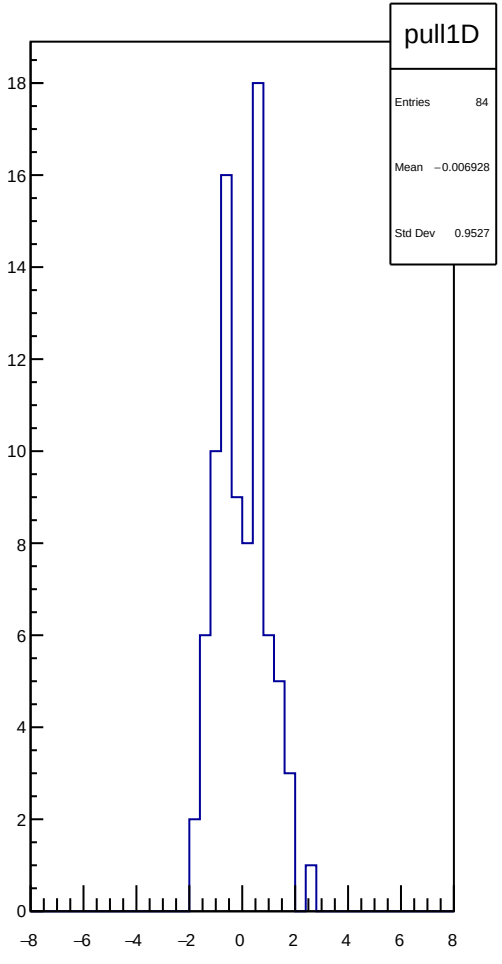

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.619e+05 / 83
p0 8.58e−12 ± 8.736e−15
60
50
40
30
20
10

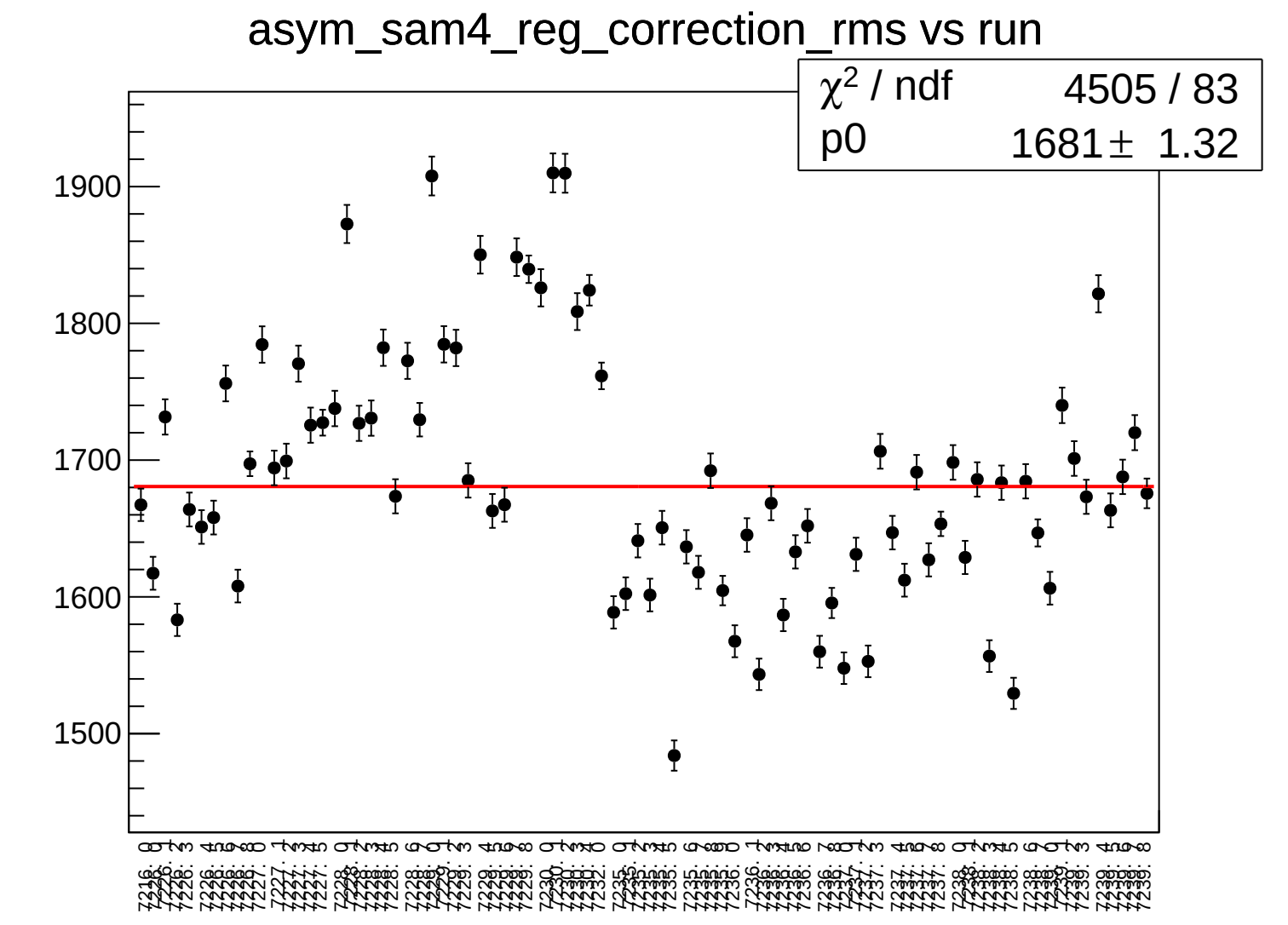

reg_asym_sam4_mean vs run
χ² / ndf 90.39 / 83
p0 −927.4 ± 267
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 621.2
Std Dev 0
3
2
1
0
−1
−2

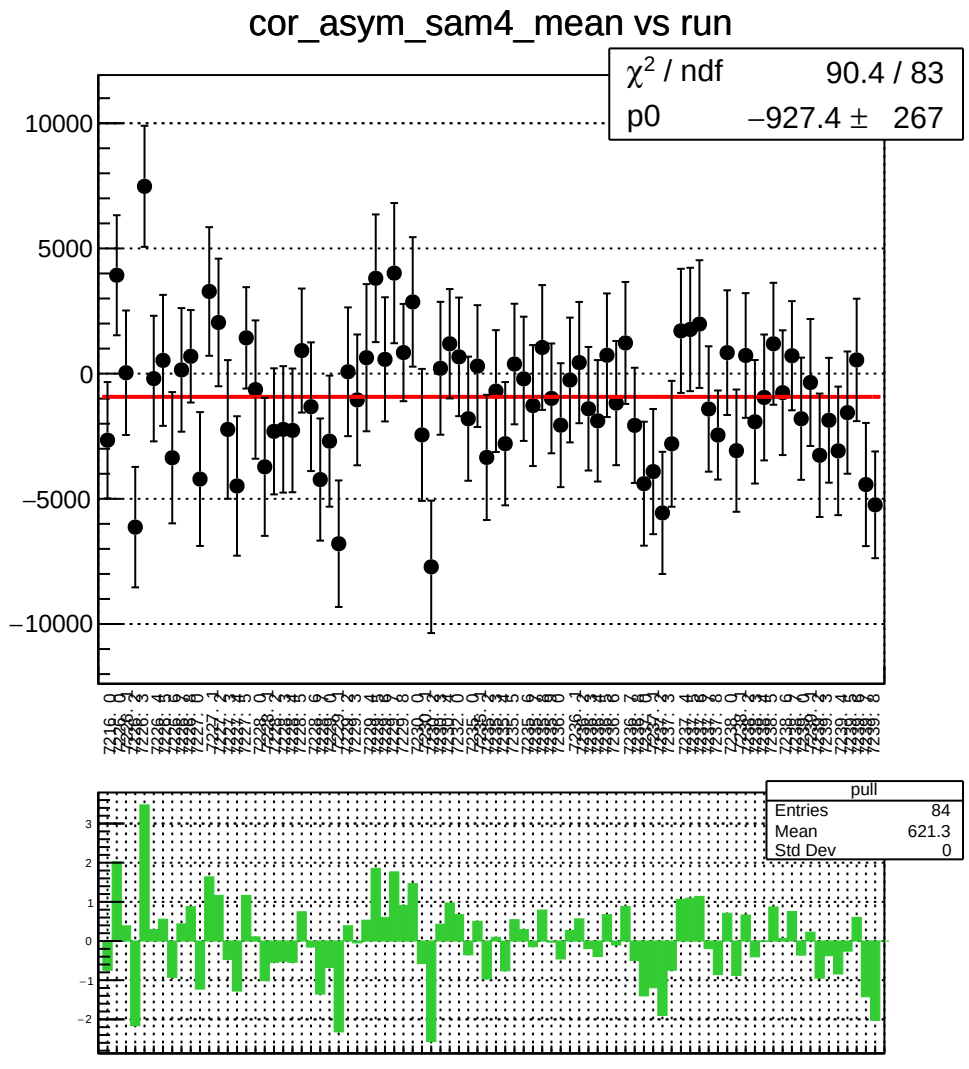

pull1D
Entries 84
Mean −0.006613
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

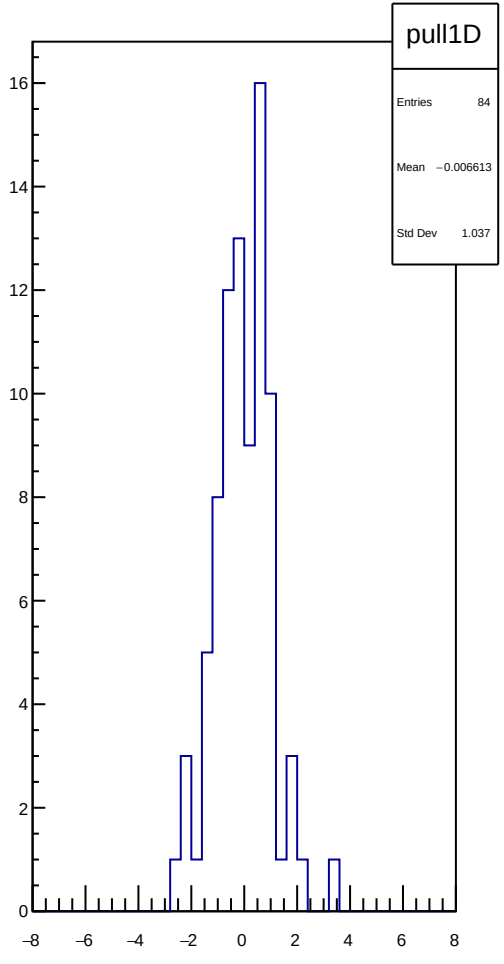

reg_asym_sam4_rms vs run
χ² / ndf 4120 / 83
p0 240.4 ± 0.1888
310
300
290
280
270
260
250
240
230
220

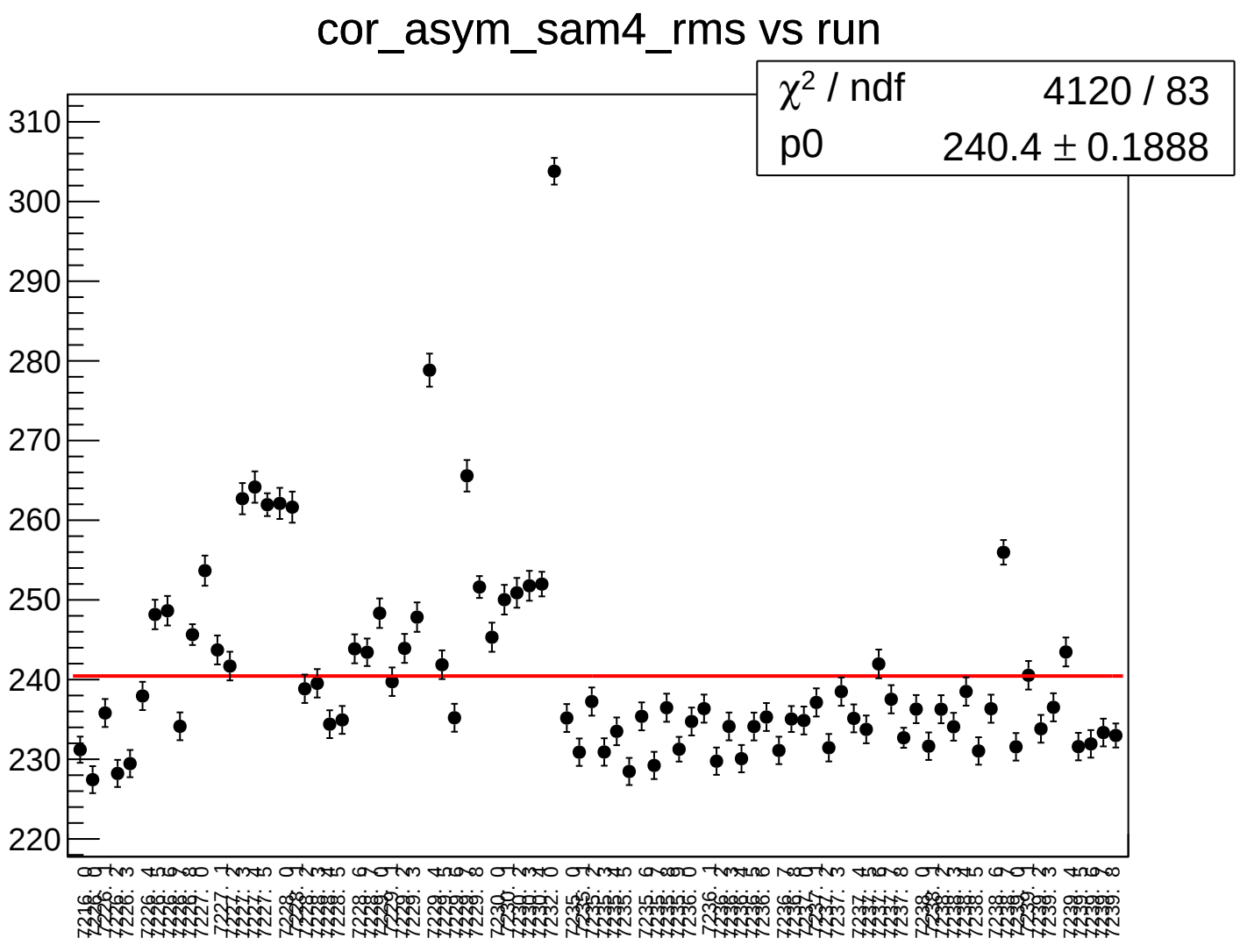

asym_sam4_reg_correction_mean vs run
χ² / ndf 76.24 / 83
p0 −1969 ± 1866
pull
Entries 84
Mean −63.89
Std Dev 0

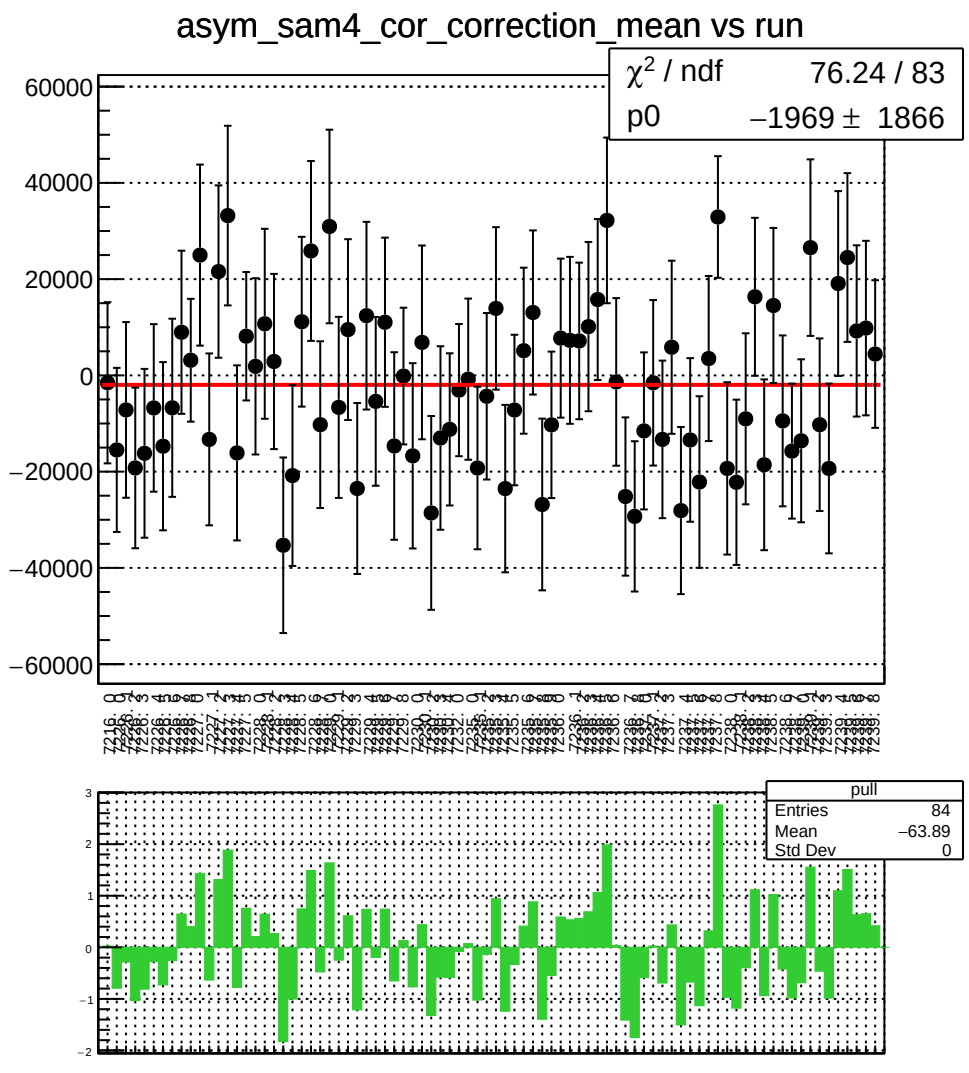

pull1D
Entries 84
Mean −0.006928
Std Dev 0.9527

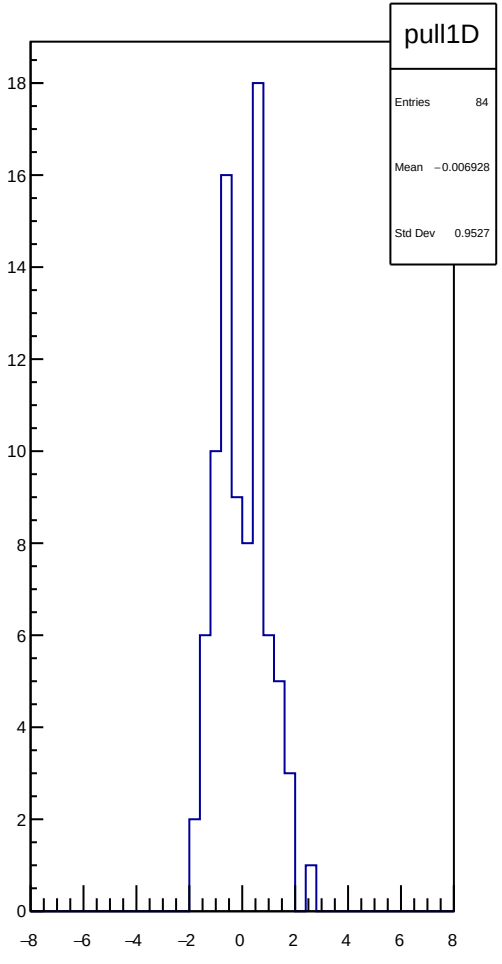

asym_sam4_reg_correction_rms vs run
χ² / ndf 4505 / 83
p0 1681 ± 1.32
1900
1800
1700
1600
1500

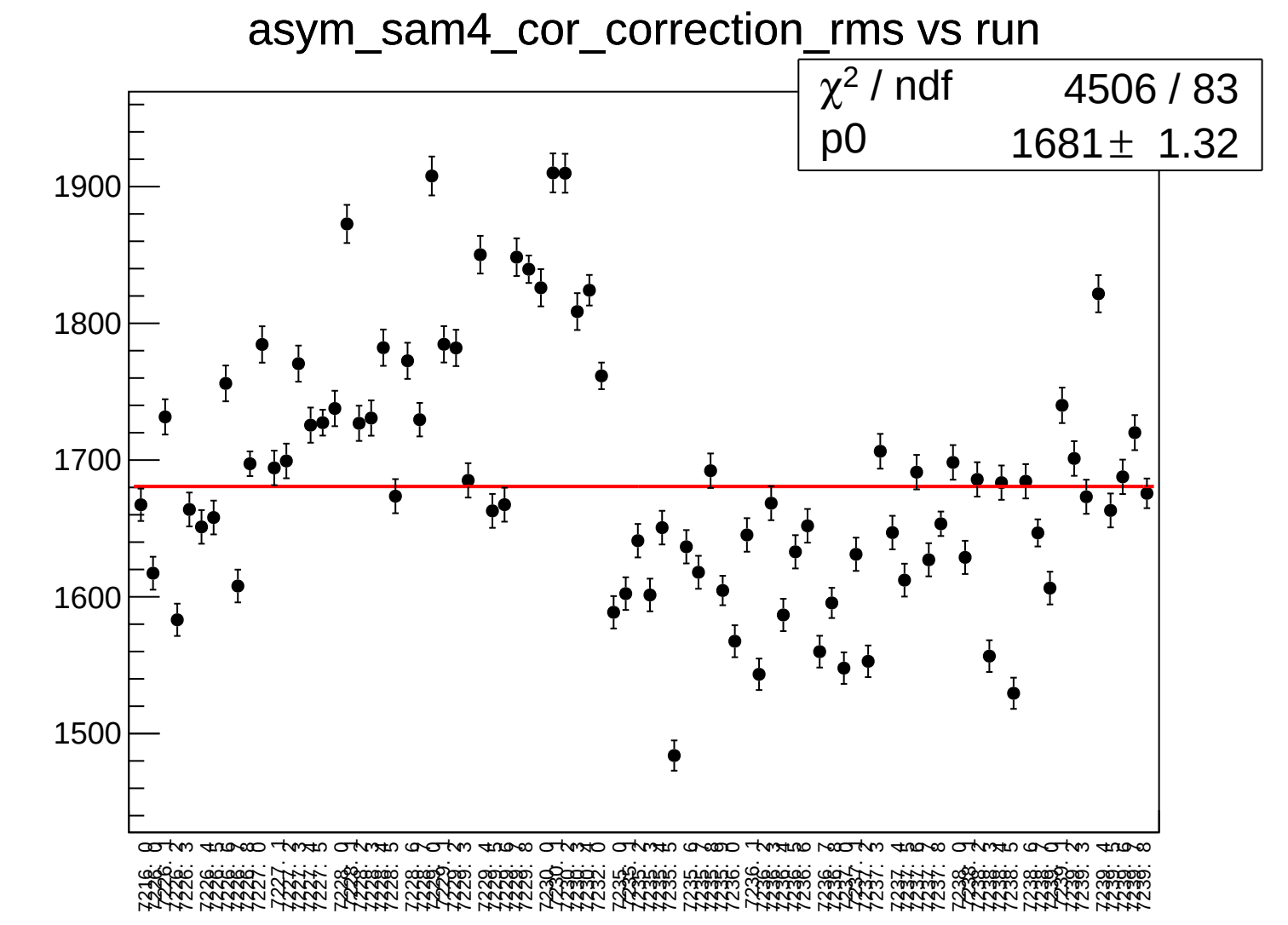

cor_asym_sam4_mean vs run
χ² / ndf 90.4 / 83
p0 −927.4 ± 267
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 621.3
Std Dev 0
3
2
1
0
−1
−2

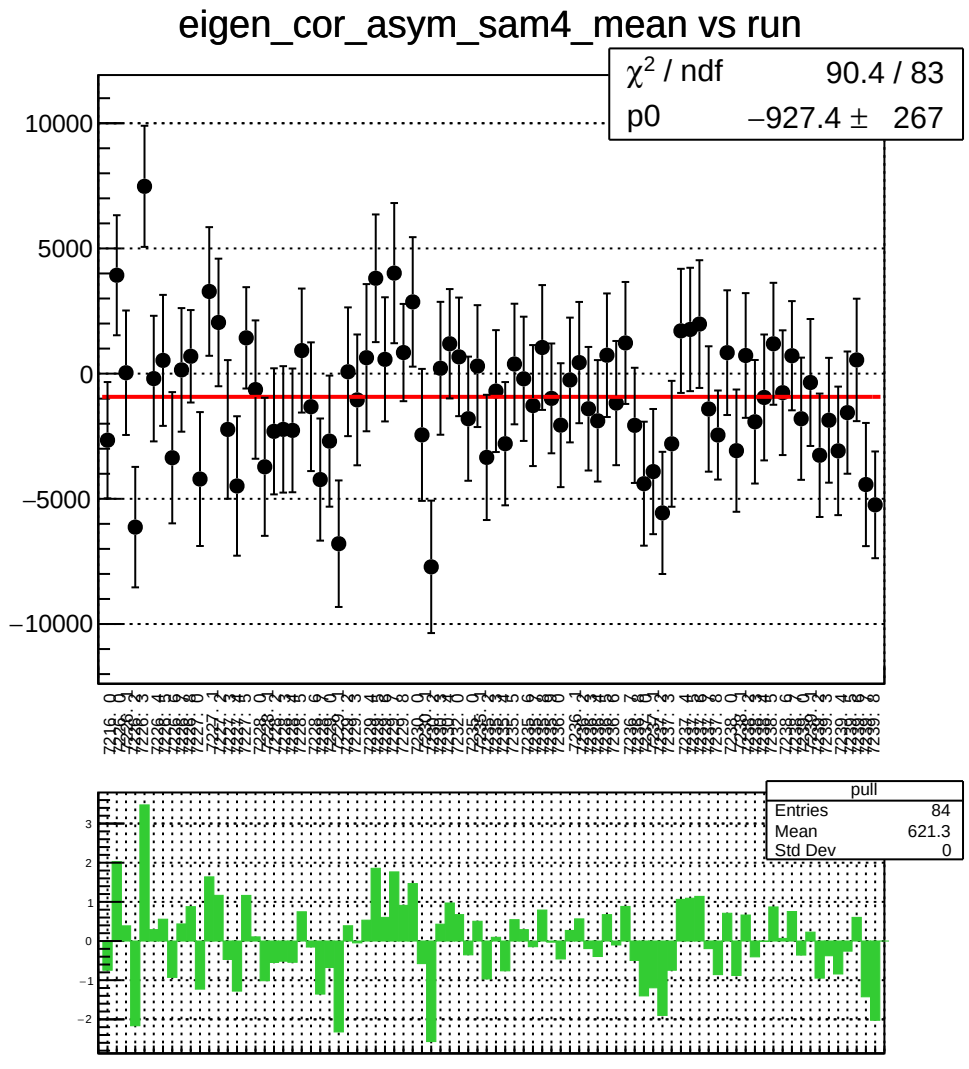

pull1D
Entries 84
Mean −0.006613
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

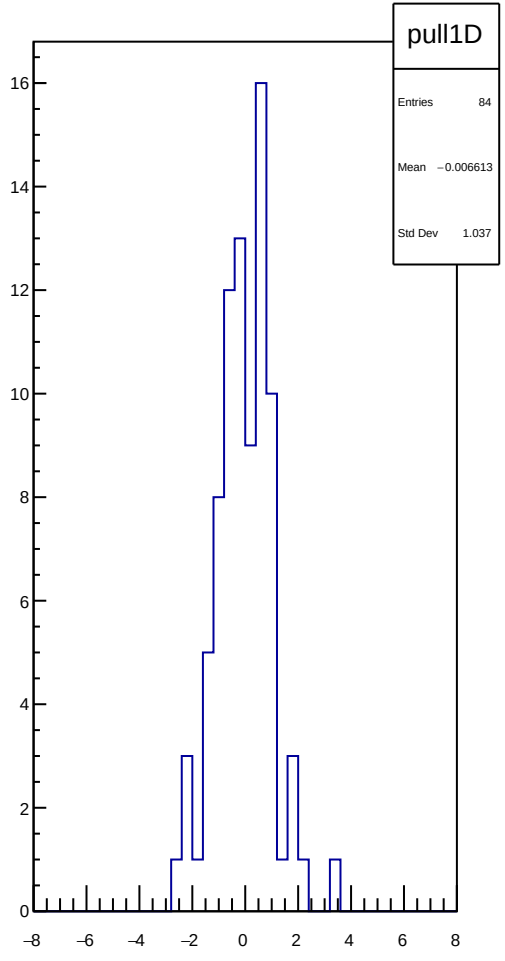

cor_asym_sam4_rms vs run
χ² / ndf 4120 / 83
p0 240.4 ± 0.1888
310
300
290
280
270
260
250
240
230
220


asym_sam4_cor_correction_mean vs run
χ² / ndf 76.24 / 83
p0 −1969 ± 1866
pull
Entries 84
Mean −63.89
Std Dev 0


pull1D
Entries 84
Mean −0.006928
Std Dev 0.9527


asym_sam4_cor_correction_rms vs run
χ² / ndf 4506 / 83
p0 1681 ± 1.32
1900
1800
1700
1600
1500


eigen_cor_asym_sam4_mean vs run
χ² / ndf 90.4 / 83
p0 −927.4 ± 267
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 621.3
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 84
Mean −0.006613
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
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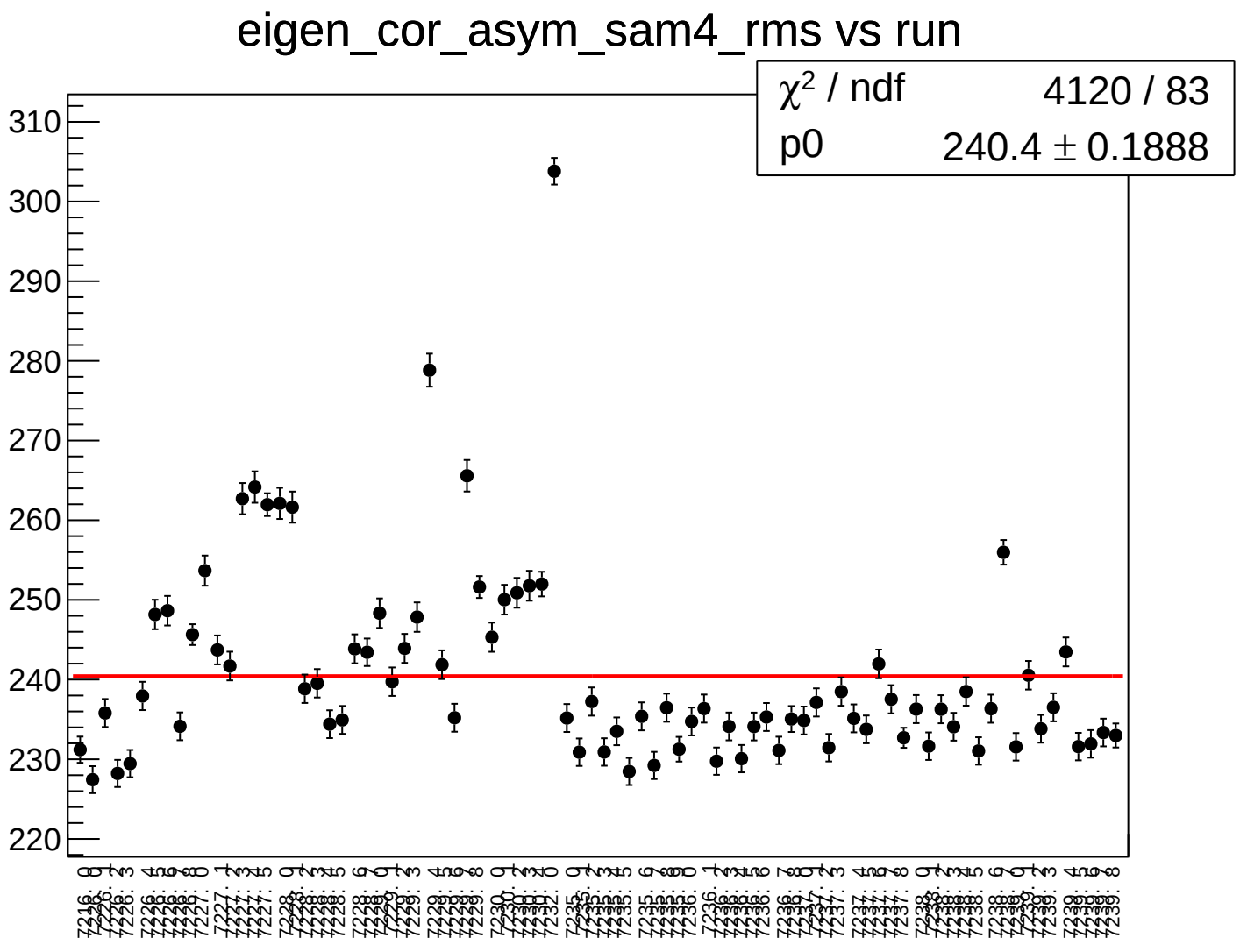
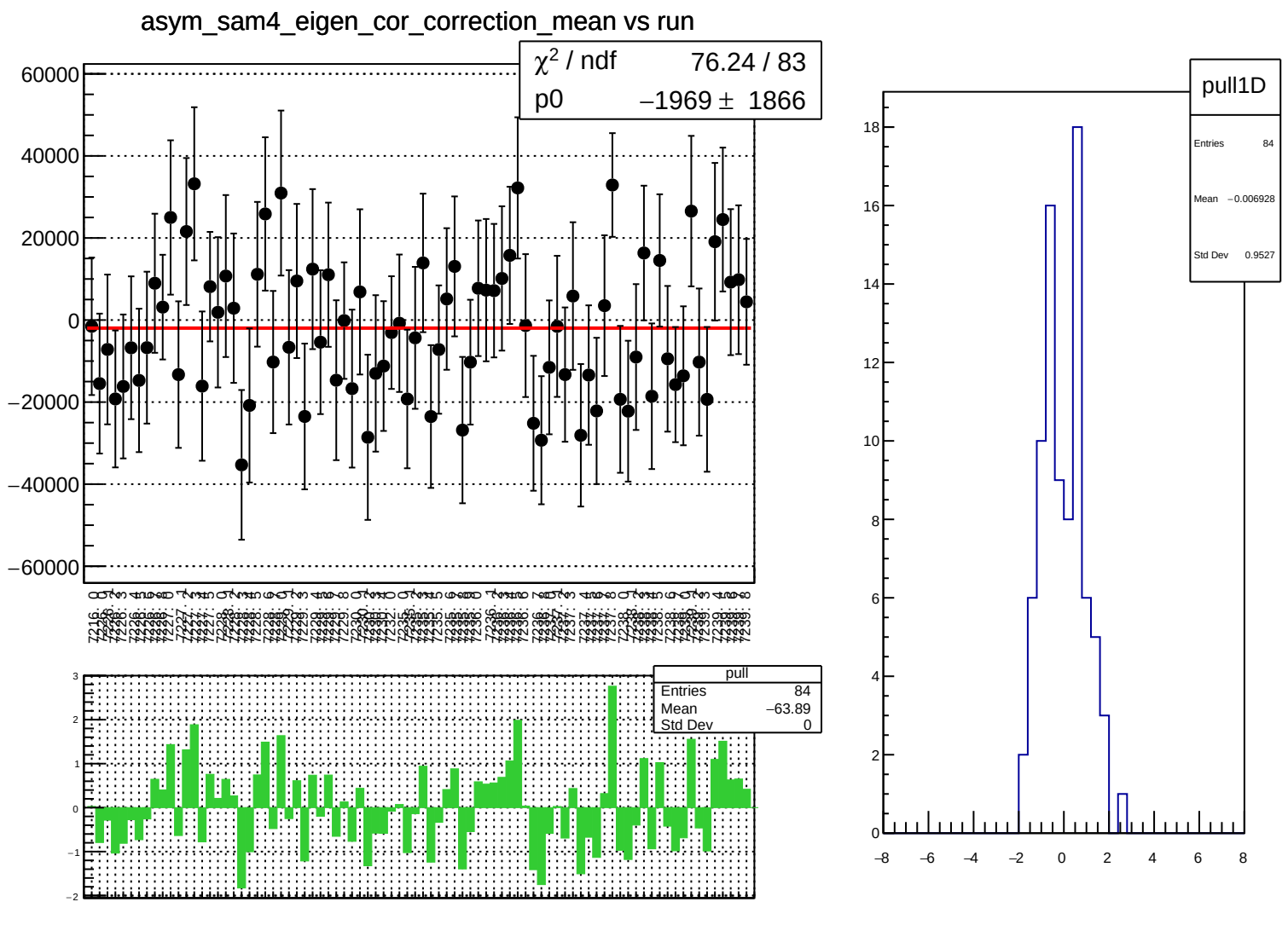
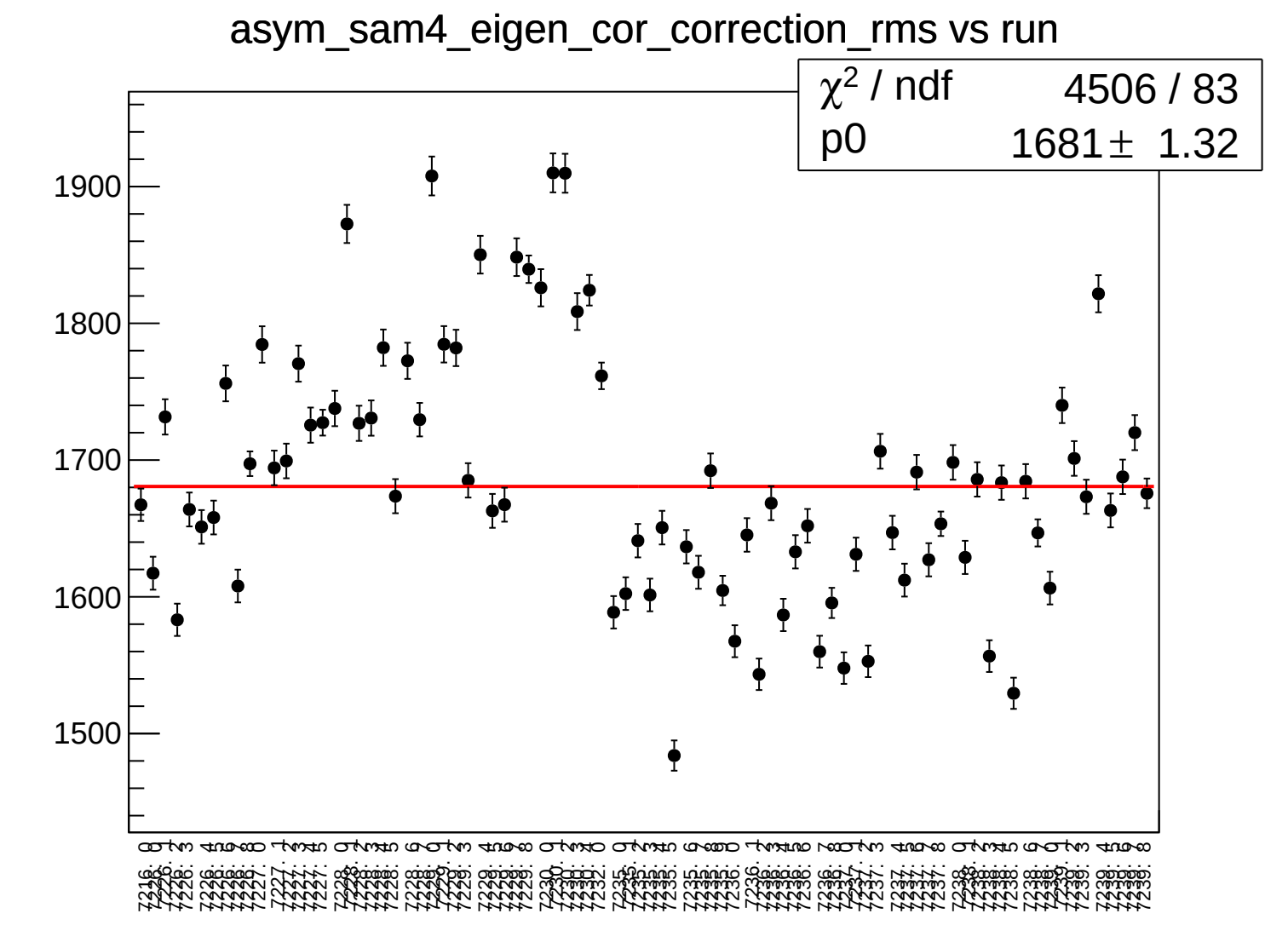
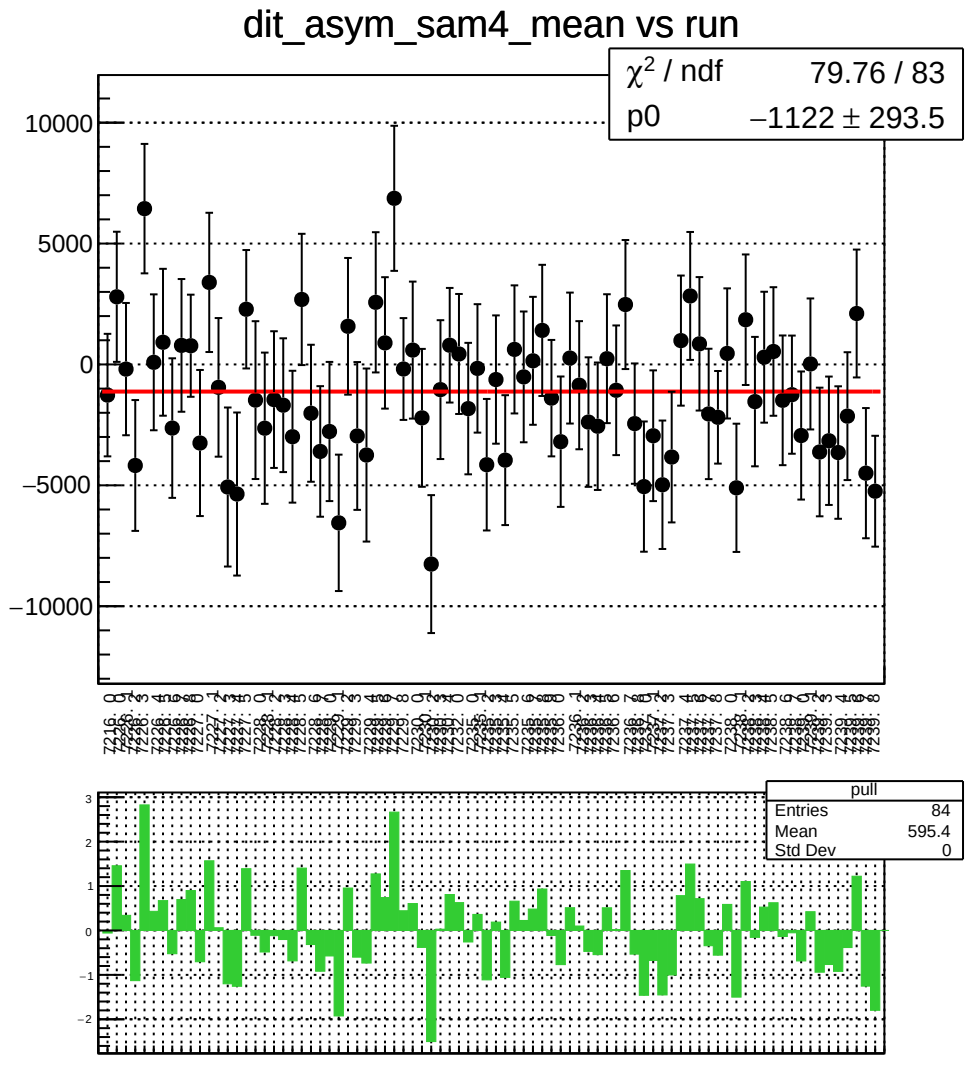
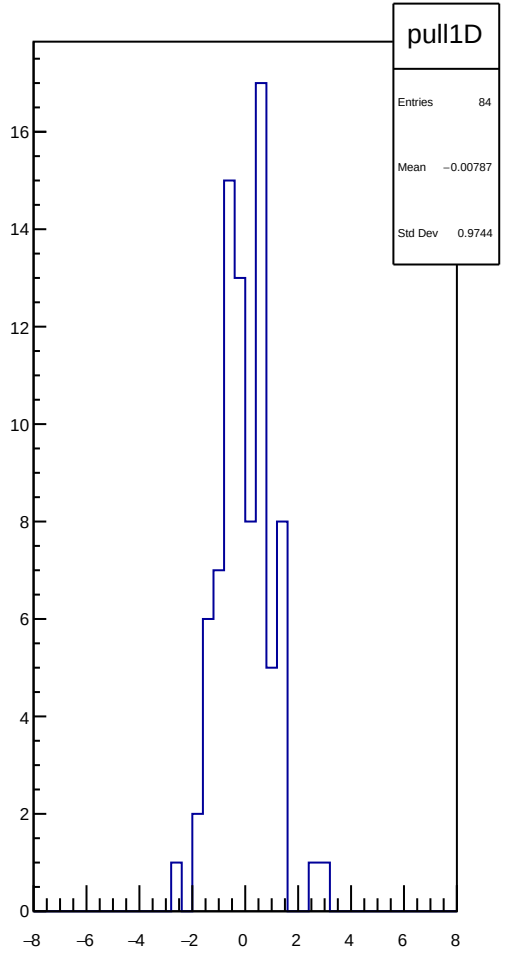
0
2
4
6
8

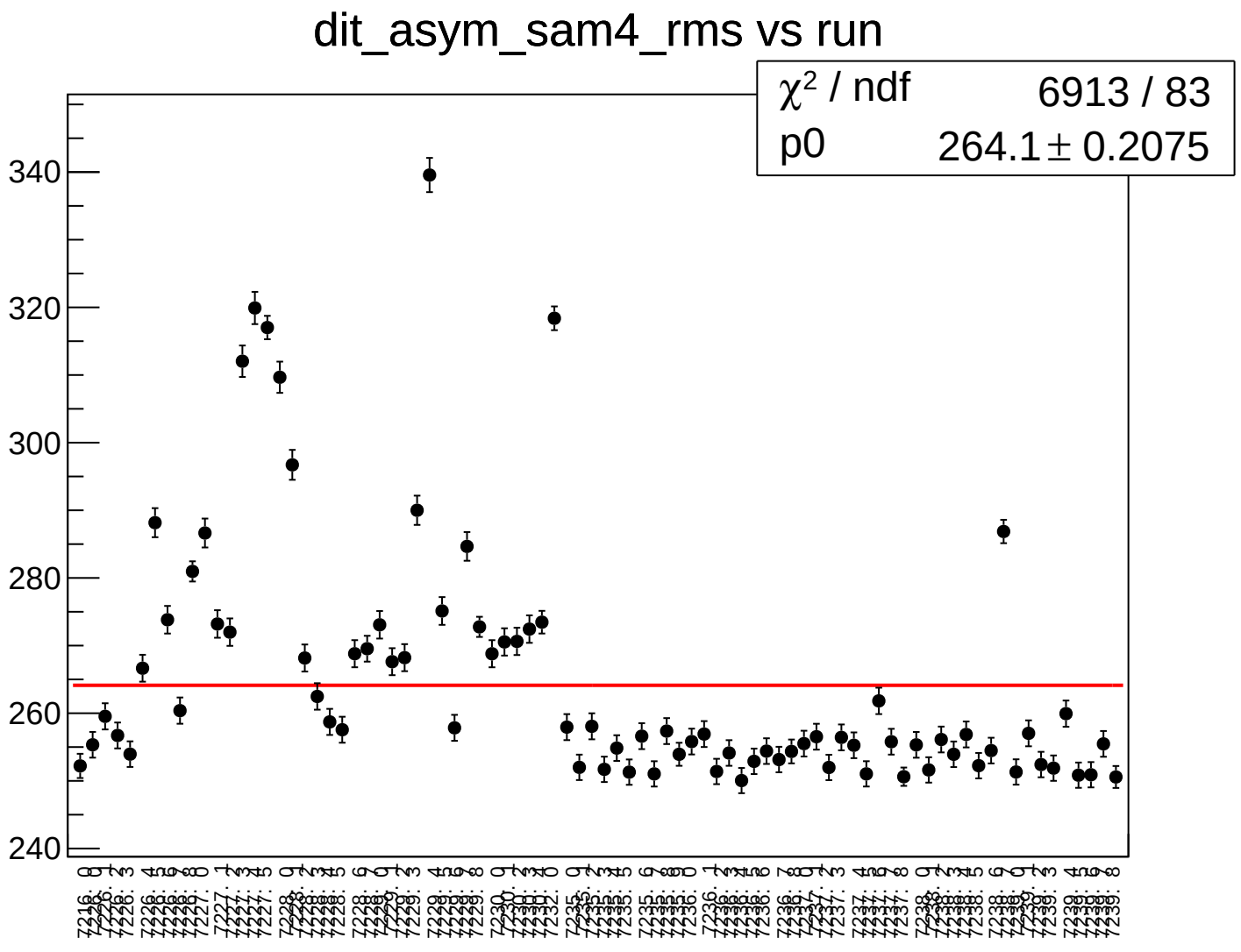

eigen_cor_asym_sam4_rms vs run
χ² / ndf 4120 / 83
p0 240.4 ± 0.1888
310
300
290
280
270
260
250
240
230
220

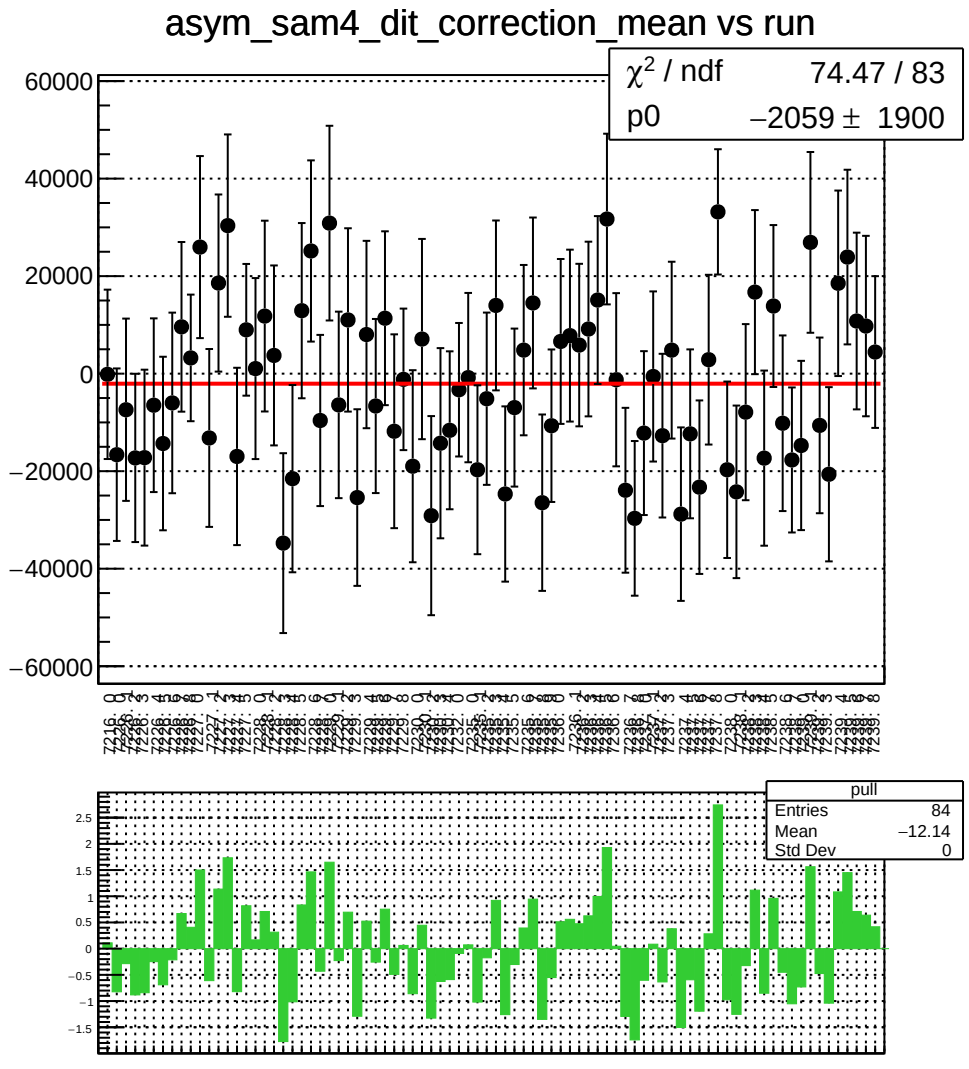

asym_sam4_eigen_cor_correction_mean vs run
χ² / ndf 76.24 / 83
p0 −1969 ± 1866
pull
Entries 84
Mean −63.89
Std Dev 0
pull1D
Entries 84
Mean −0.006928
Std Dev 0.9527

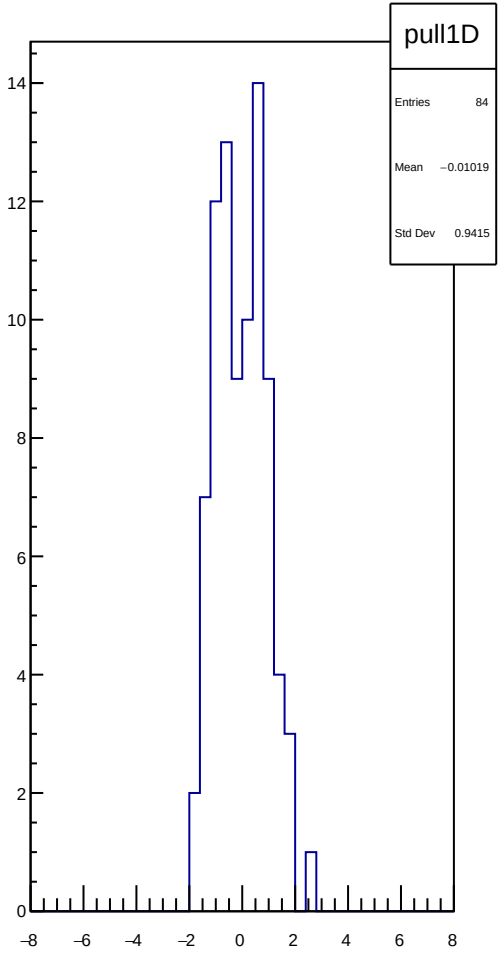

asym_sam4_eigen_cor_correction_rms vs run
χ² / ndf 4506 / 83
p0 1681 ± 1.32
1900
1800
1700
1600
1500

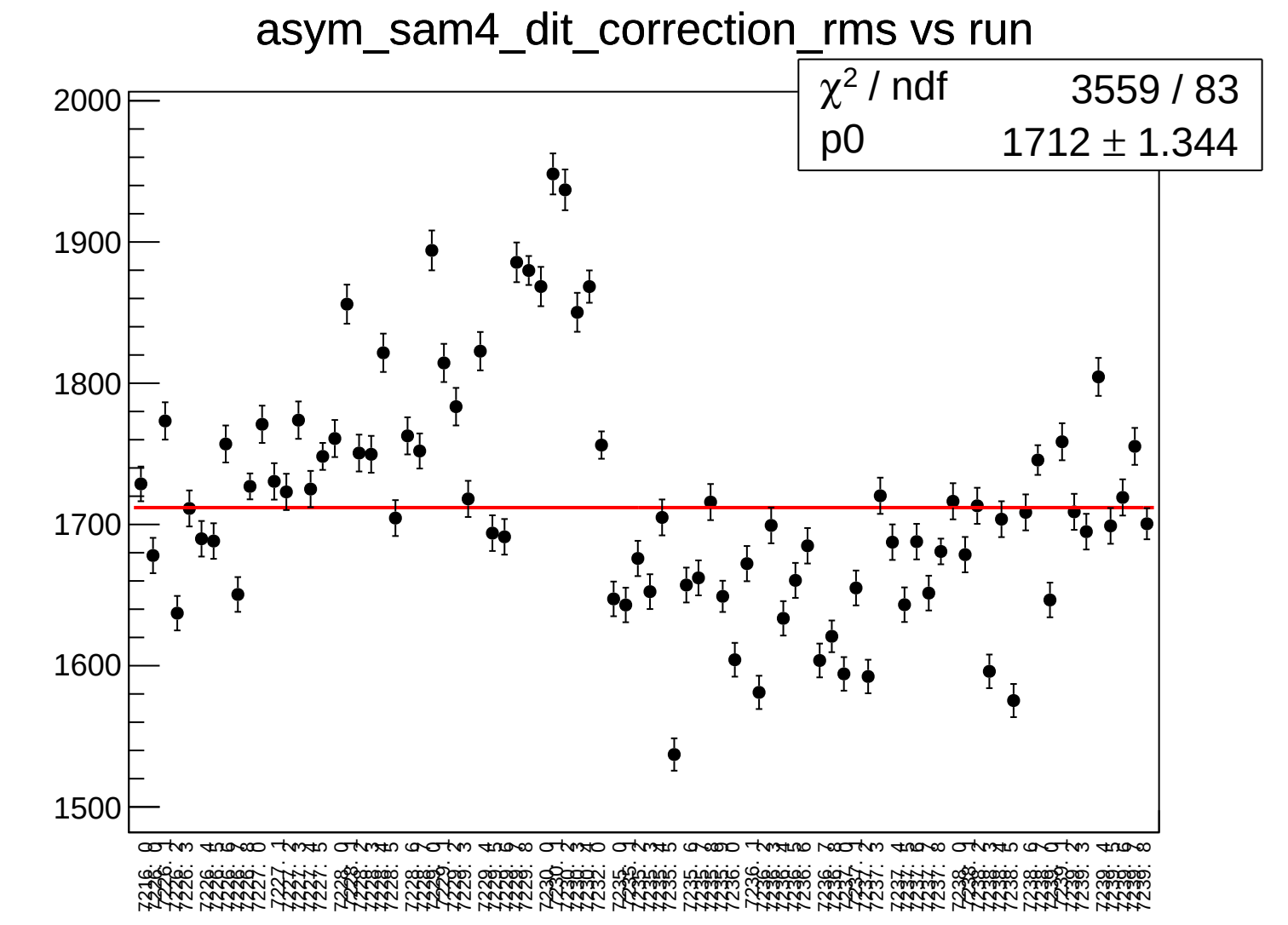

dit_asym_sam4_mean vs run
χ^2 / ndf 79.76 / 83
p0 −1122 ± 293.5
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 595.4
Std Dev 0

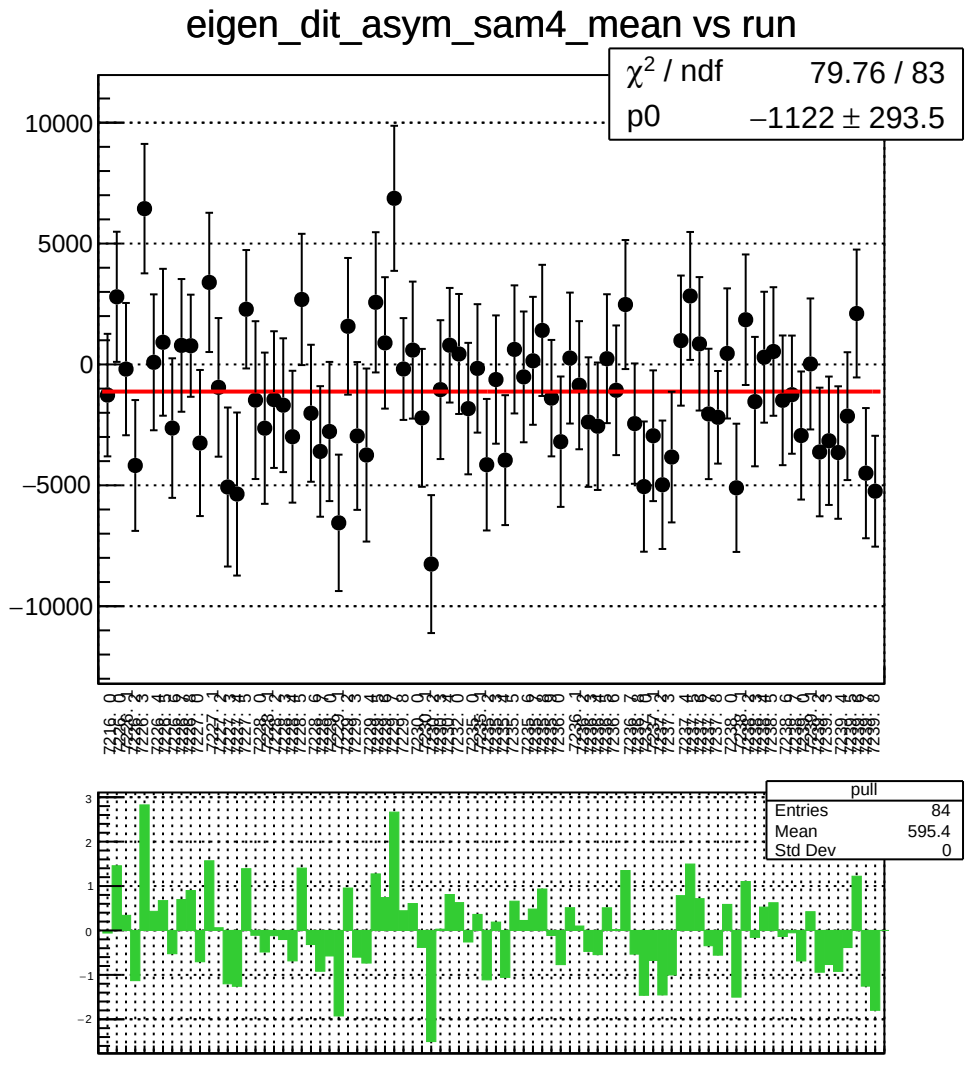

pull1D
Entries 84
Mean −0.00787
Std Dev 0.9744
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

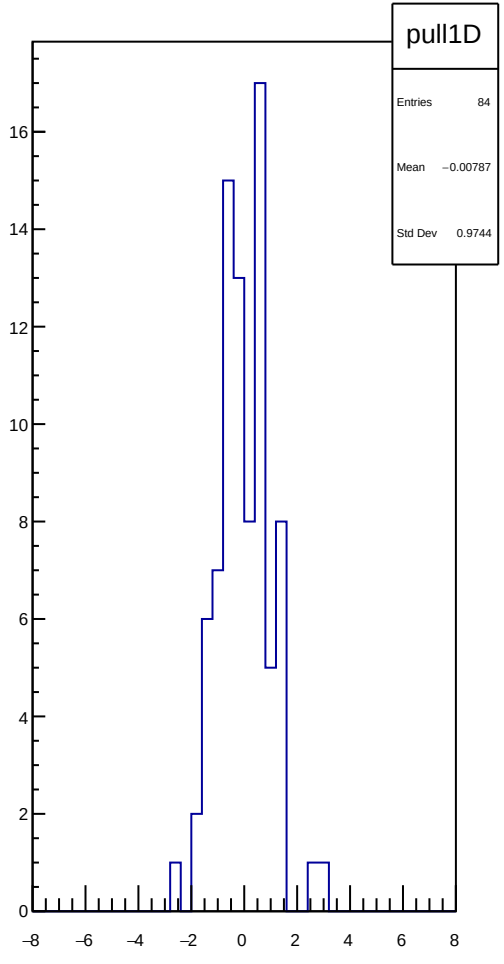

dit_asym_sam4_rms vs run
χ² / ndf 6913 / 83
p0 264.1 ± 0.2075
340
320
300
280
260
240

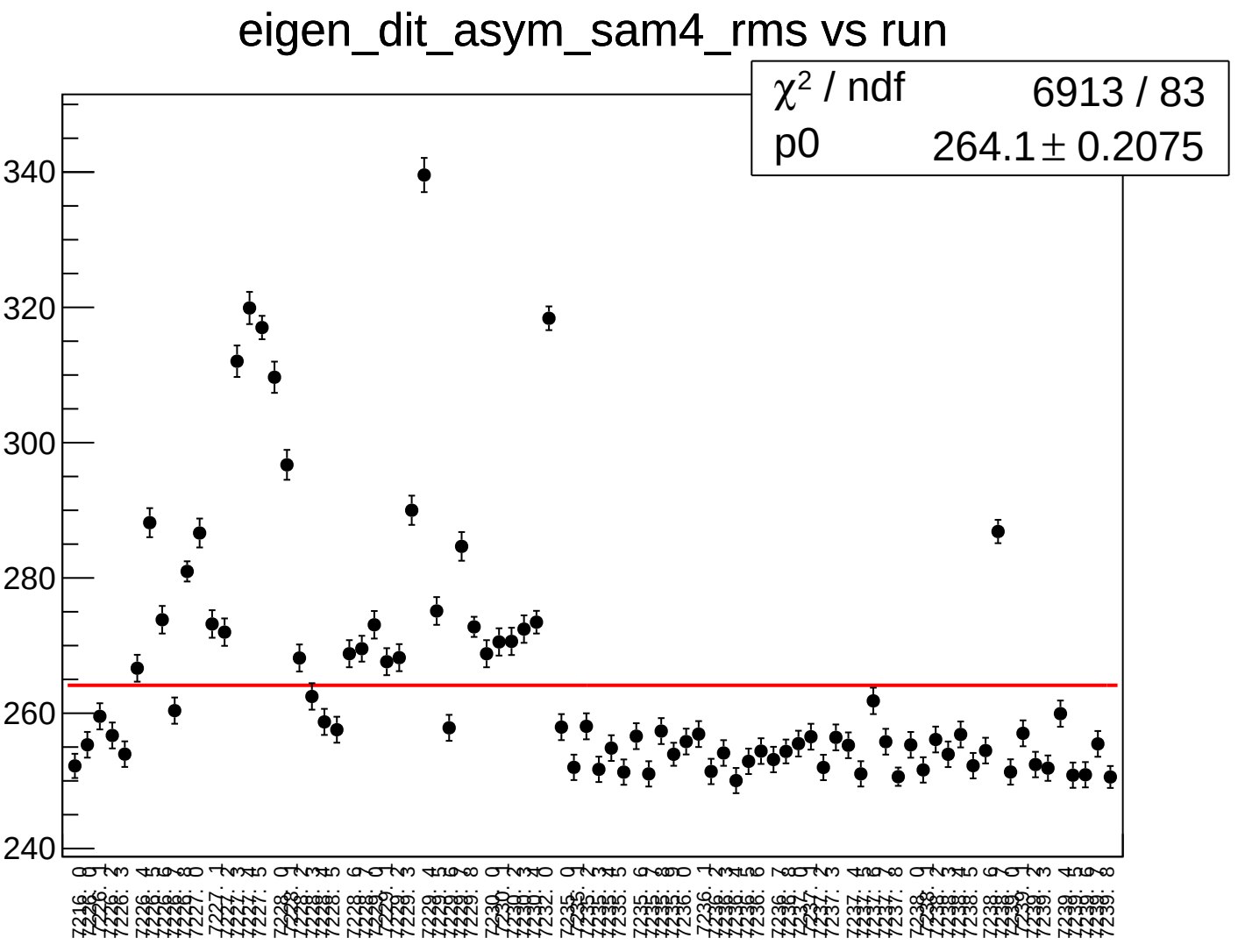

asym_sam4_dit_correction_mean vs run
χ² / ndf 74.47 / 83
p0 −2059 ± 1900
pull
Entries 84
Mean −12.14
Std Dev 0

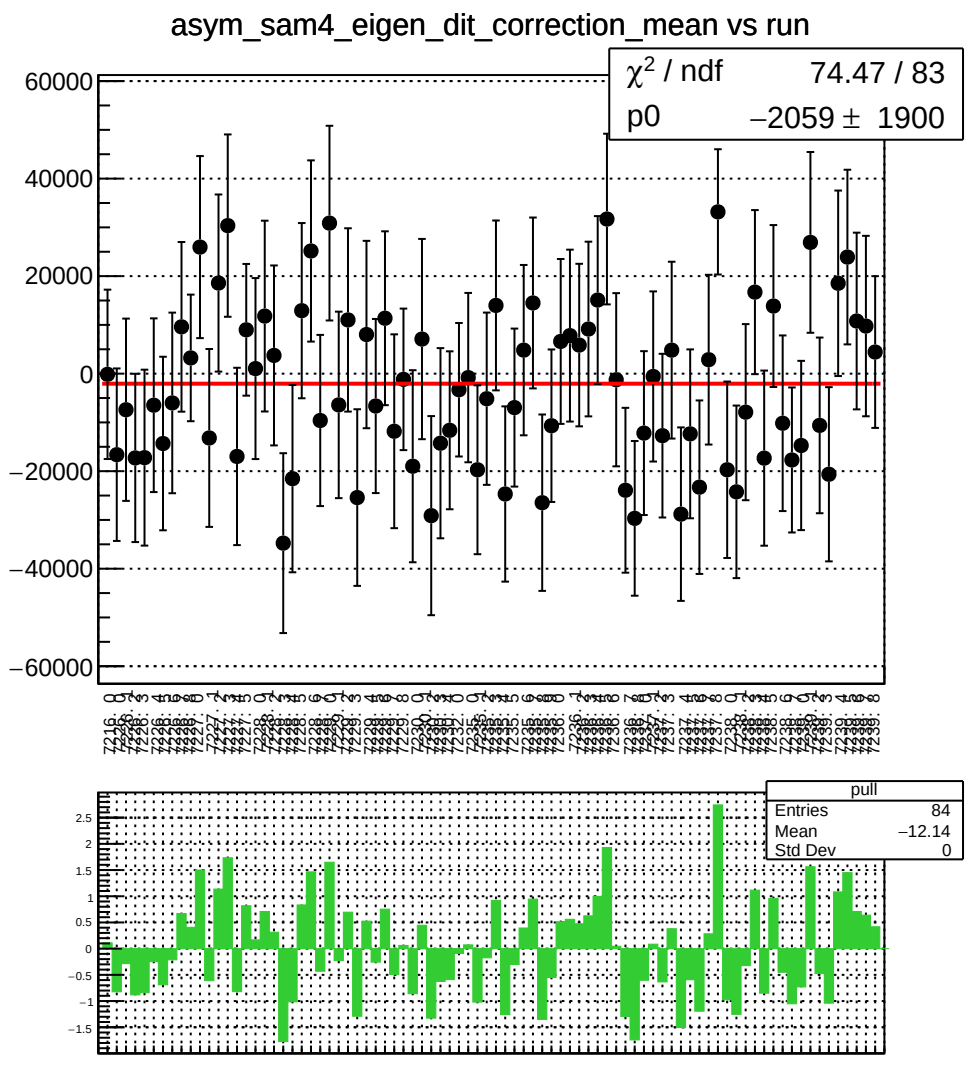

pull1D
Entries 84
Mean −0.01019
Std Dev 0.9415

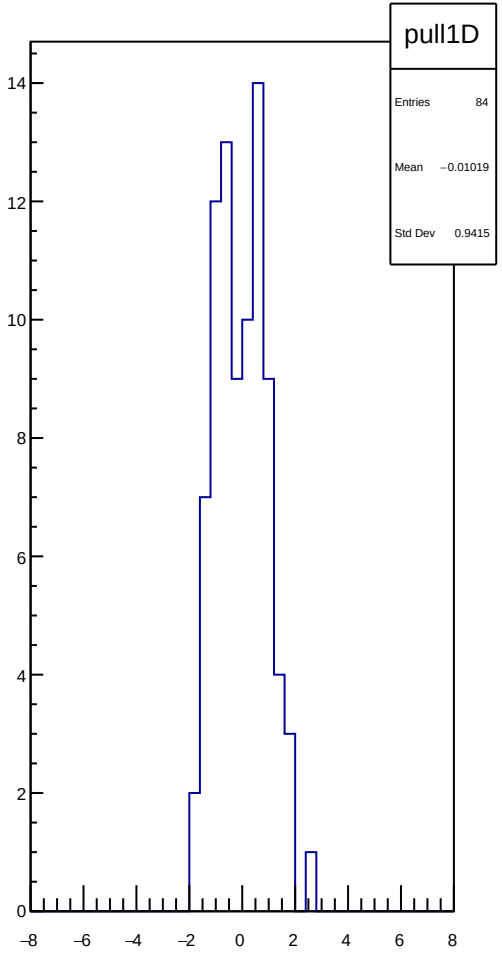

asym_sam4_dit_correction_rms vs run
χ² / ndf 3559 / 83
p0 1712 ± 1.344
2000
1900
1800
1700
1600
1500

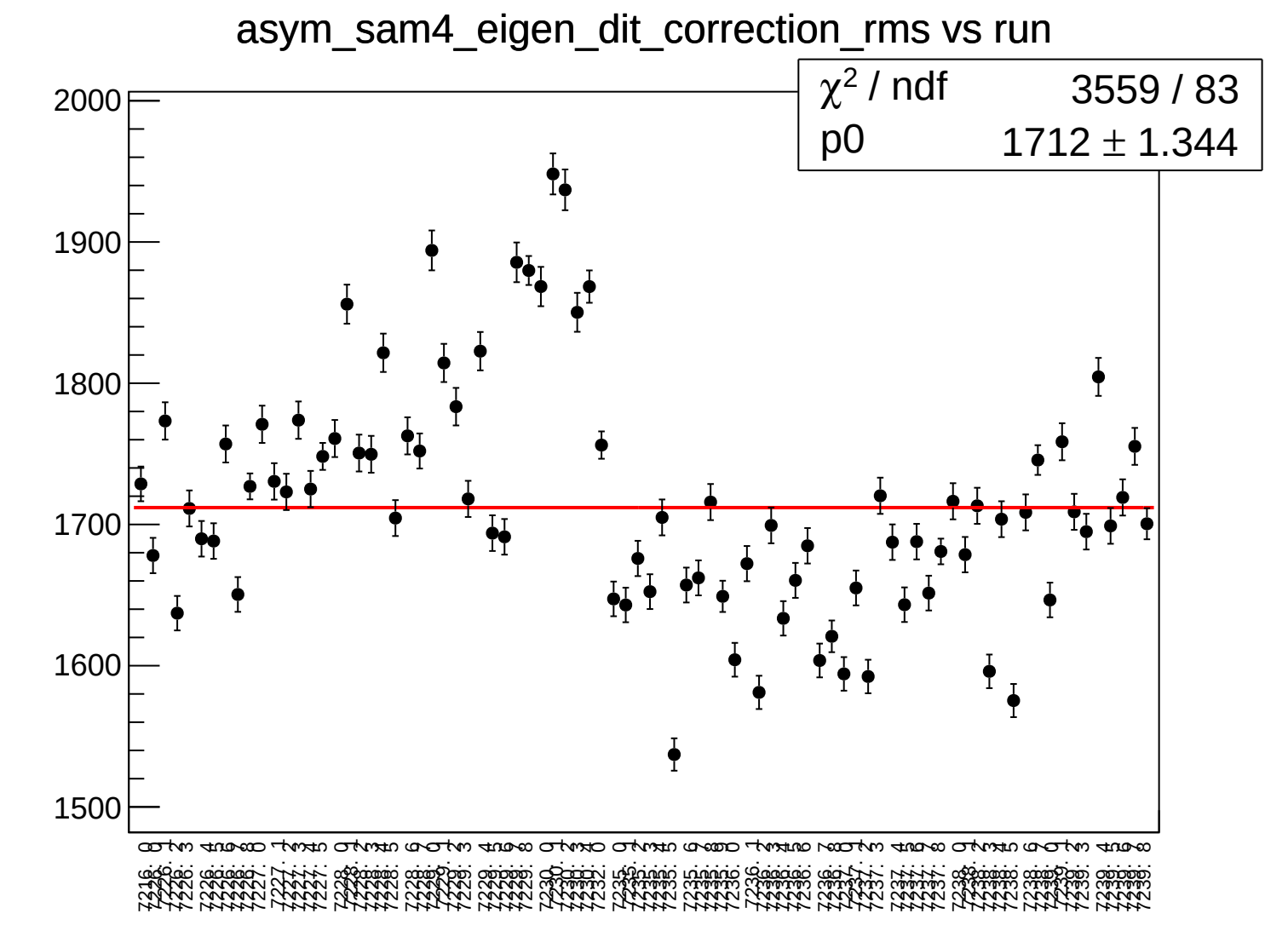

eigen_dit_asym_sam4_mean vs run
χ^2 / ndf 79.76 / 83
p0 −1122 ± 293.5
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 595.4
Std Dev 0
3
2
1
0
−1
−2

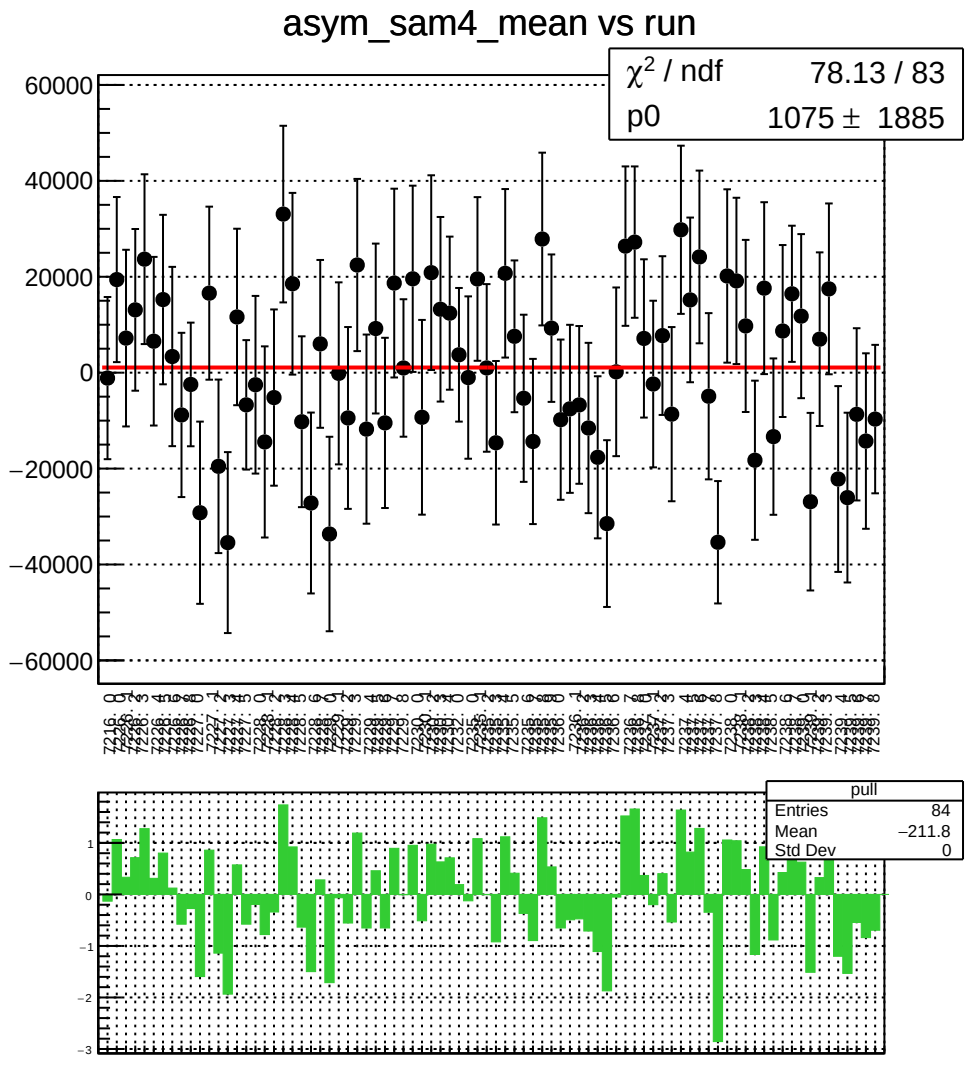

pull1D
Entries 84
Mean −0.00787
Std Dev 0.9744
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

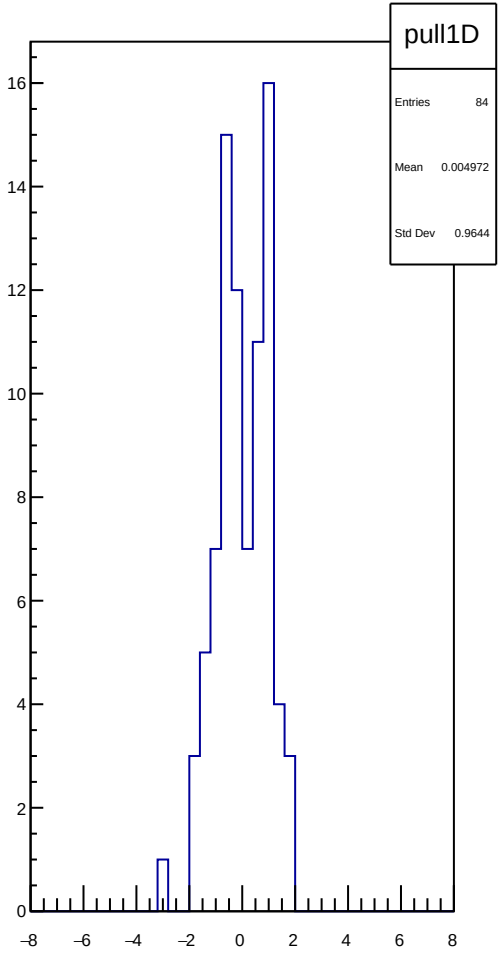

eigen_dit_asym_sam4_rms vs run
χ² / ndf 6913 / 83
p0 264.1 ± 0.2075
340
320
300
280
260
240

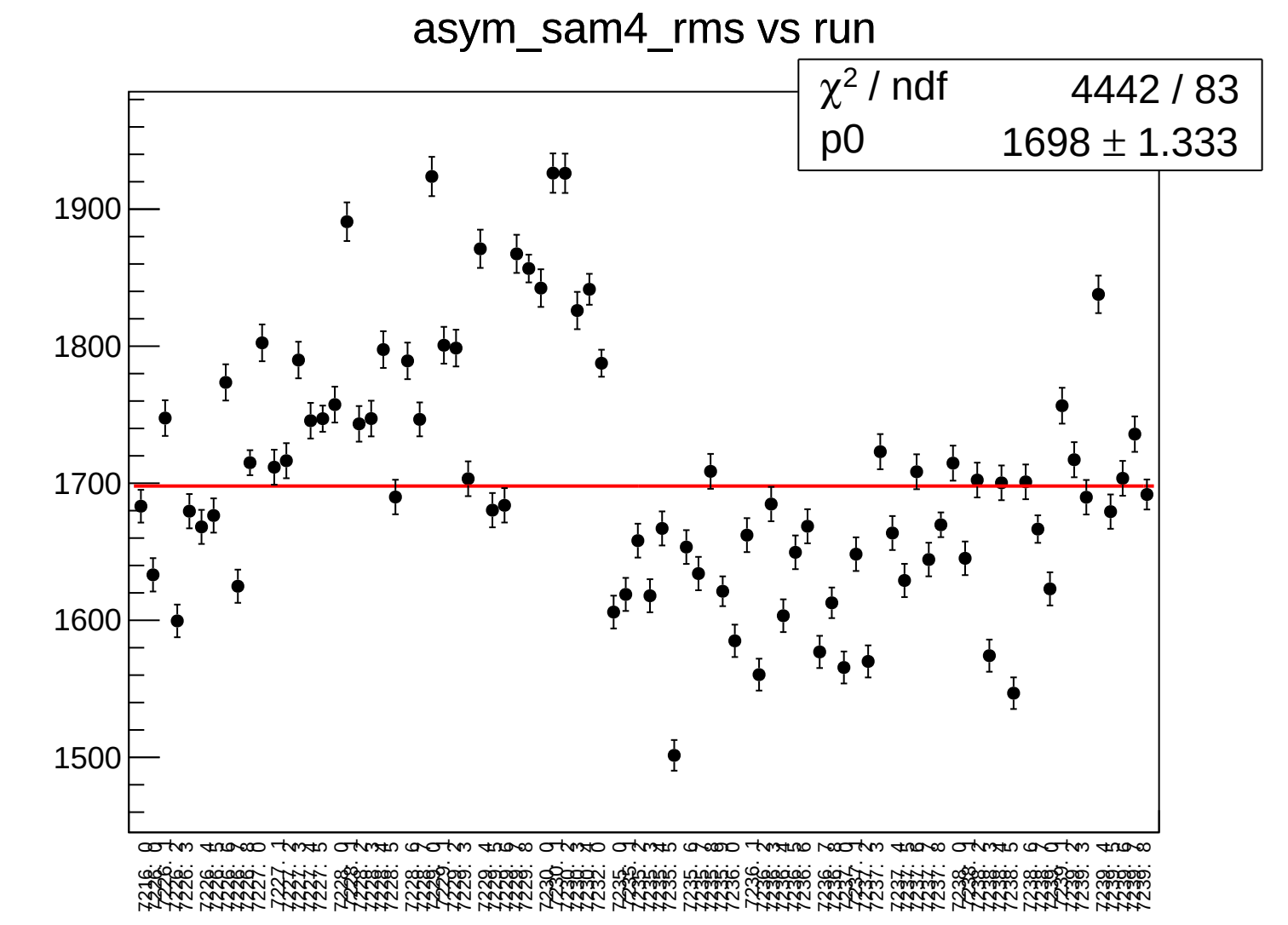

asym_sam4_eigen_dit_correction_mean vs run
χ² / ndf 74.47 / 83
p0 −2059 ± 1900
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −12.14
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

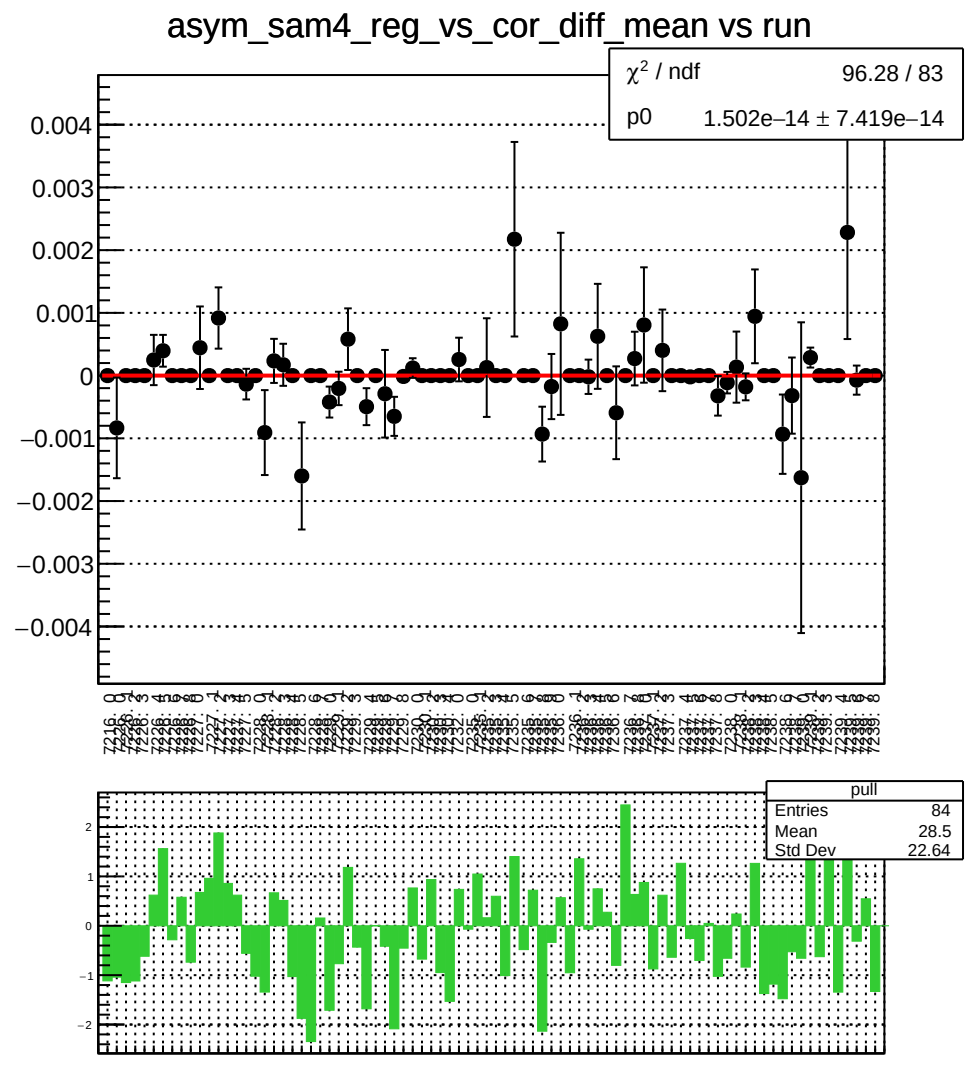

pull1D
Entries 84
Mean −0.01019
Std Dev 0.9415
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

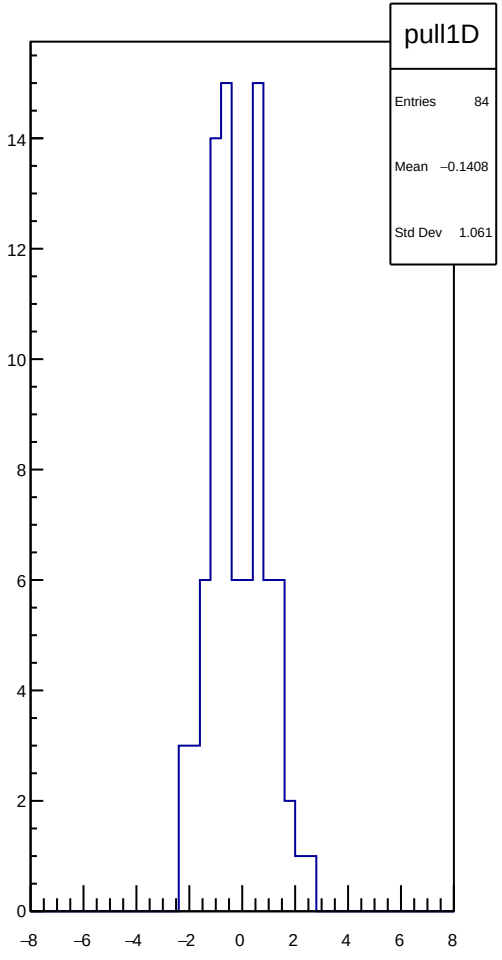

asym_sam4_eigen_dit_correction_rms vs run
χ² / ndf 3559 / 83
p0 1712 ± 1.344
2000
1900
1800
1700
1600
1500

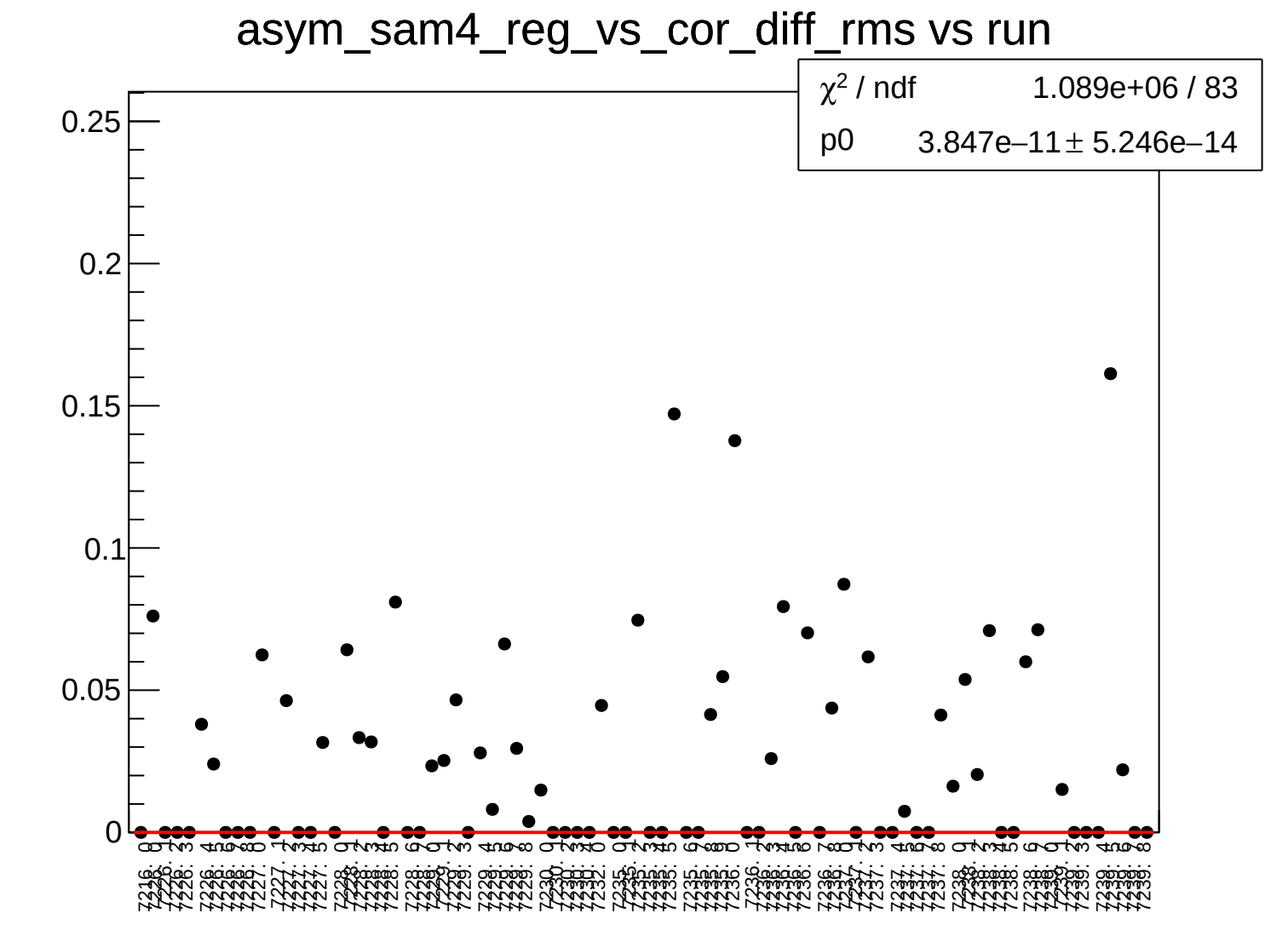

asym_sam4_mean vs run
χ² / ndf 78.13 / 83
p0 1075 ± 1885
pull
Entries 84
Mean −211.8
Std Dev 0

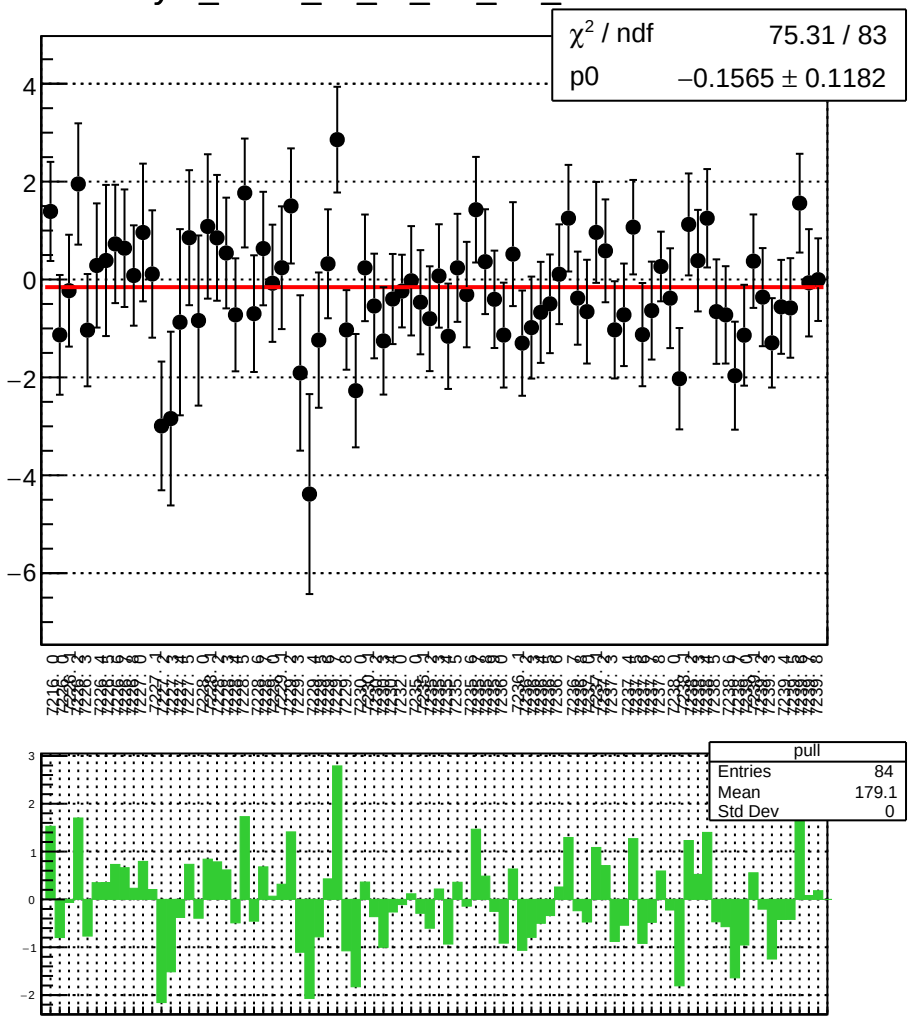

pull1D
Entries 84
Mean 0.004972
Std Dev 0.9644

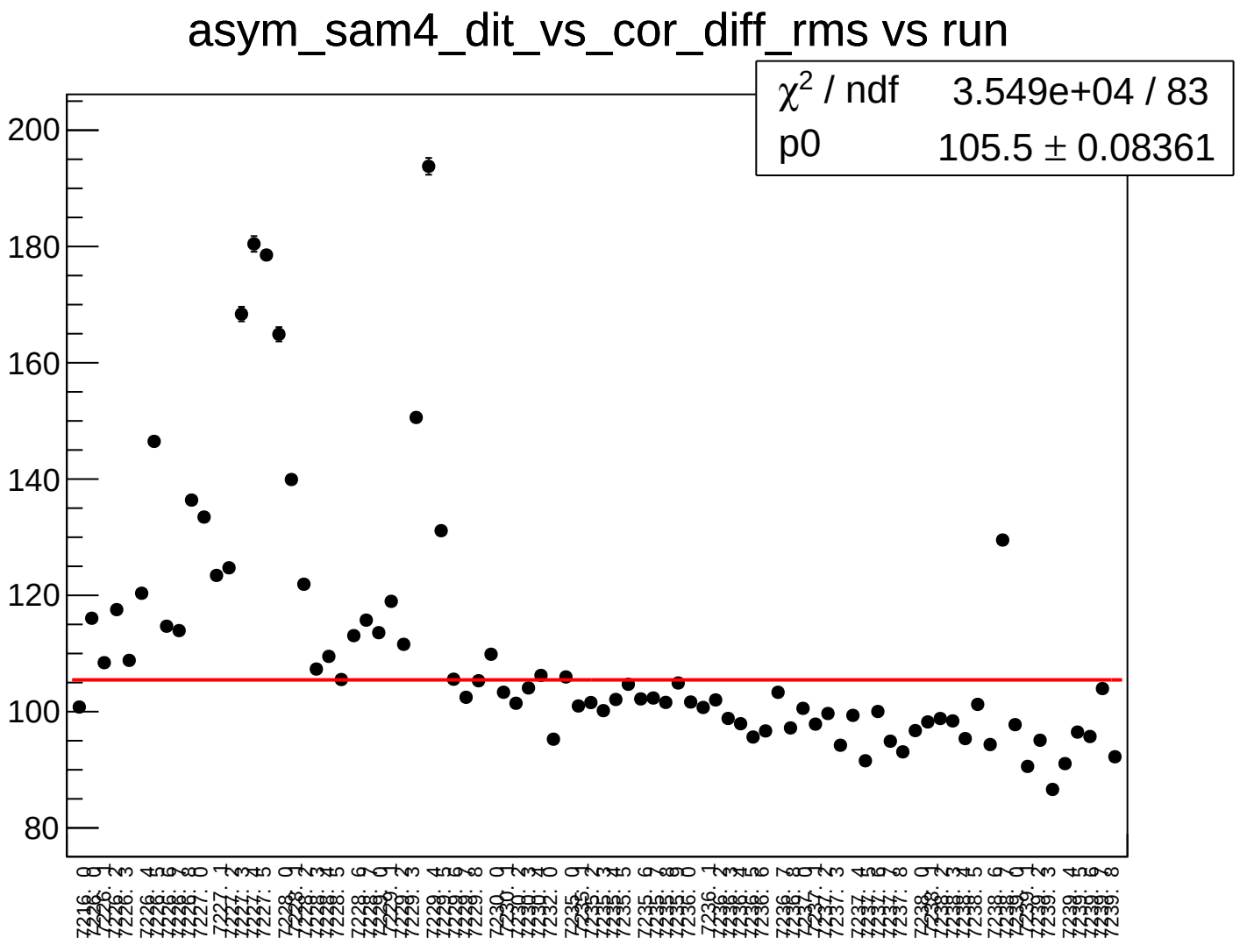

asym_sam4_rms vs run
χ² / ndf 4442 / 83
p0 1698 ± 1.333
1900
1800
1700
1600
1500

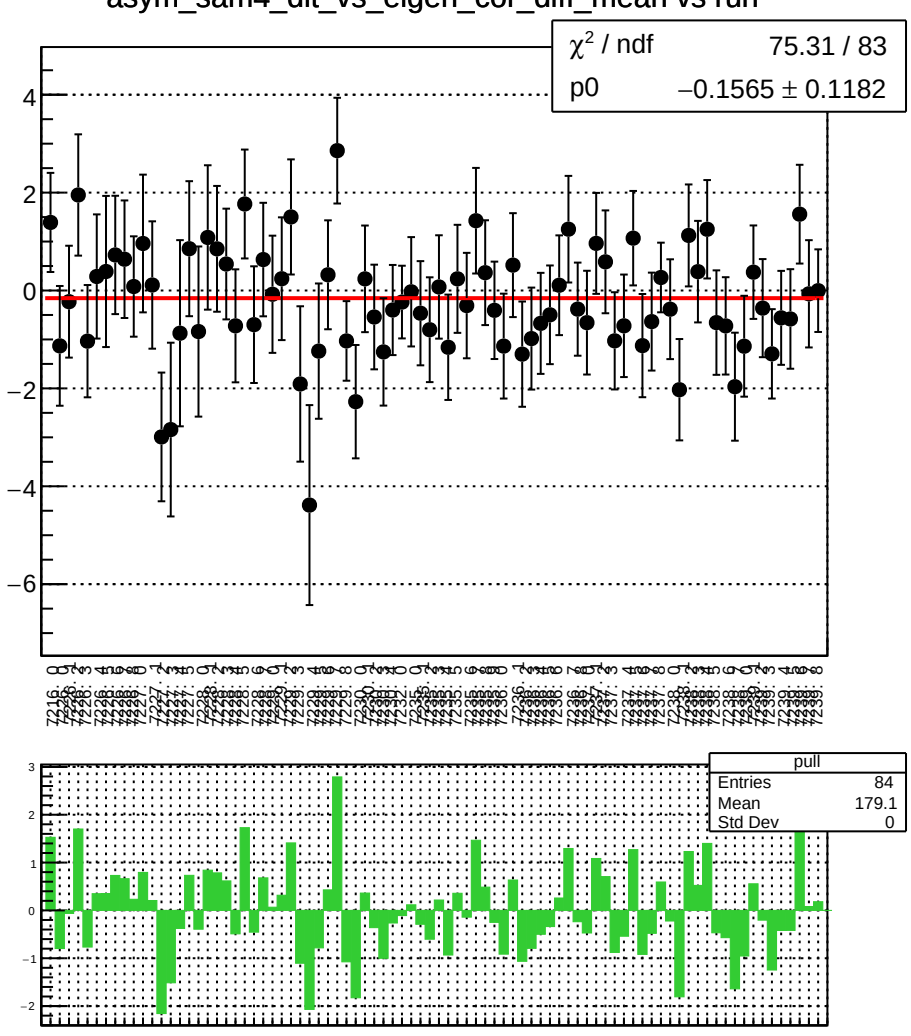

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 96.28 / 83
p0 1.502e−14 ± 7.419e−14
pull
Entries 84
Mean 28.5
Std Dev 22.64

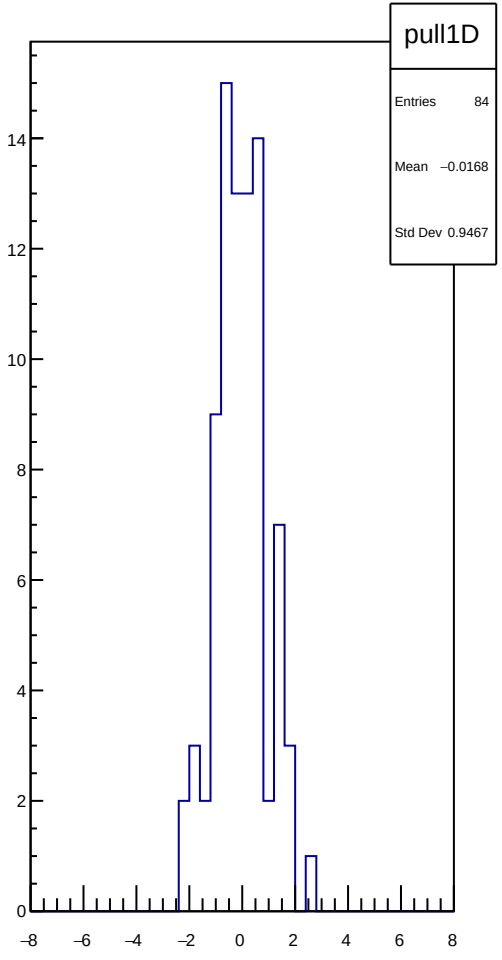

pull1D
Entries 84
Mean −0.1408
Std Dev 1.061

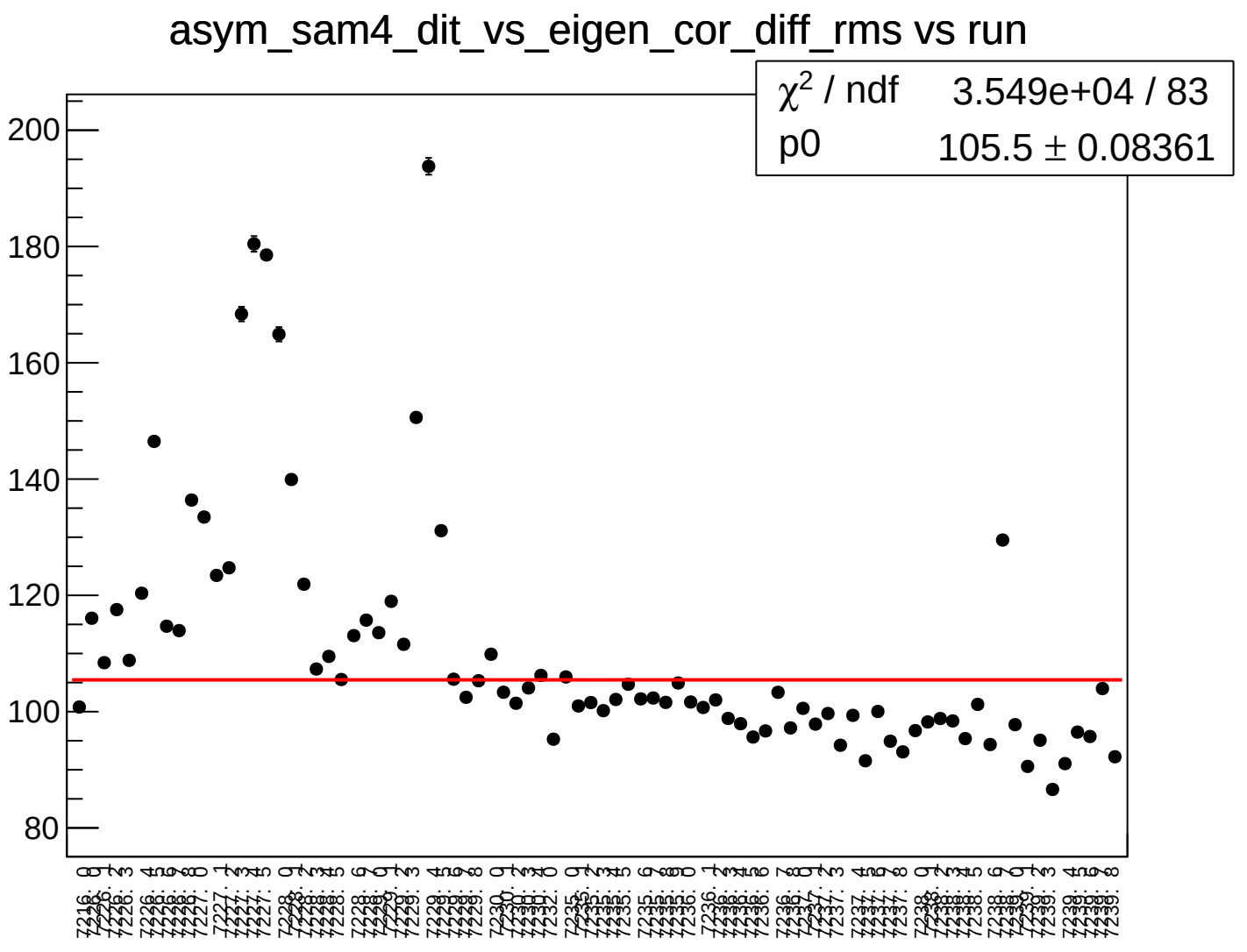

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 1.089e+06 / 83
p0 3.847e−11 ± 5.246e−14
0.25
0.2
0.15
0.1
0.05
0

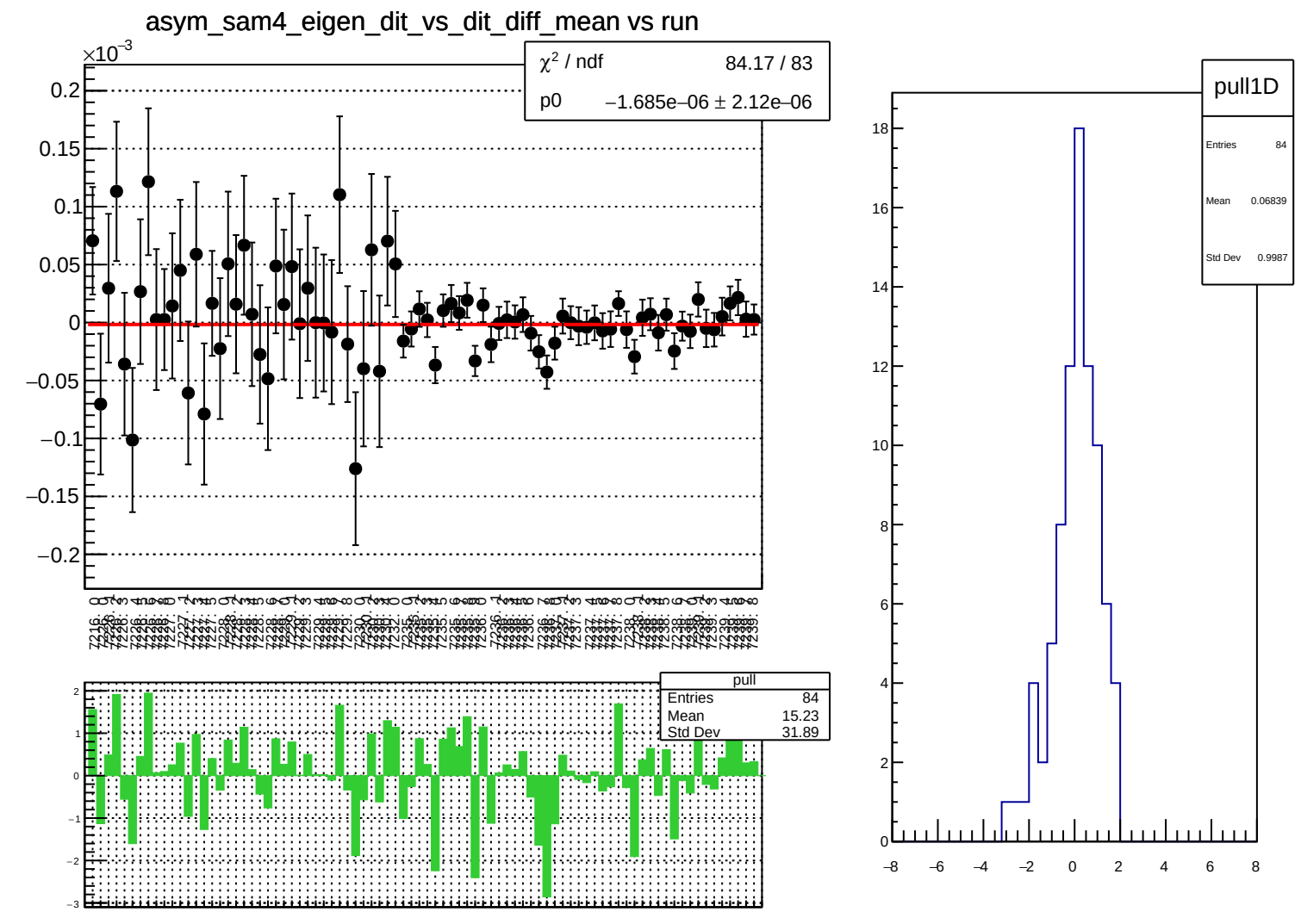

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 75.31 / 83
p0 −0.1565 ± 0.1182
pull
Entries 84
Mean 179.1
Std Dev 0
pull1D
Entries 84
Mean −0.0168
Std Dev 0.9467

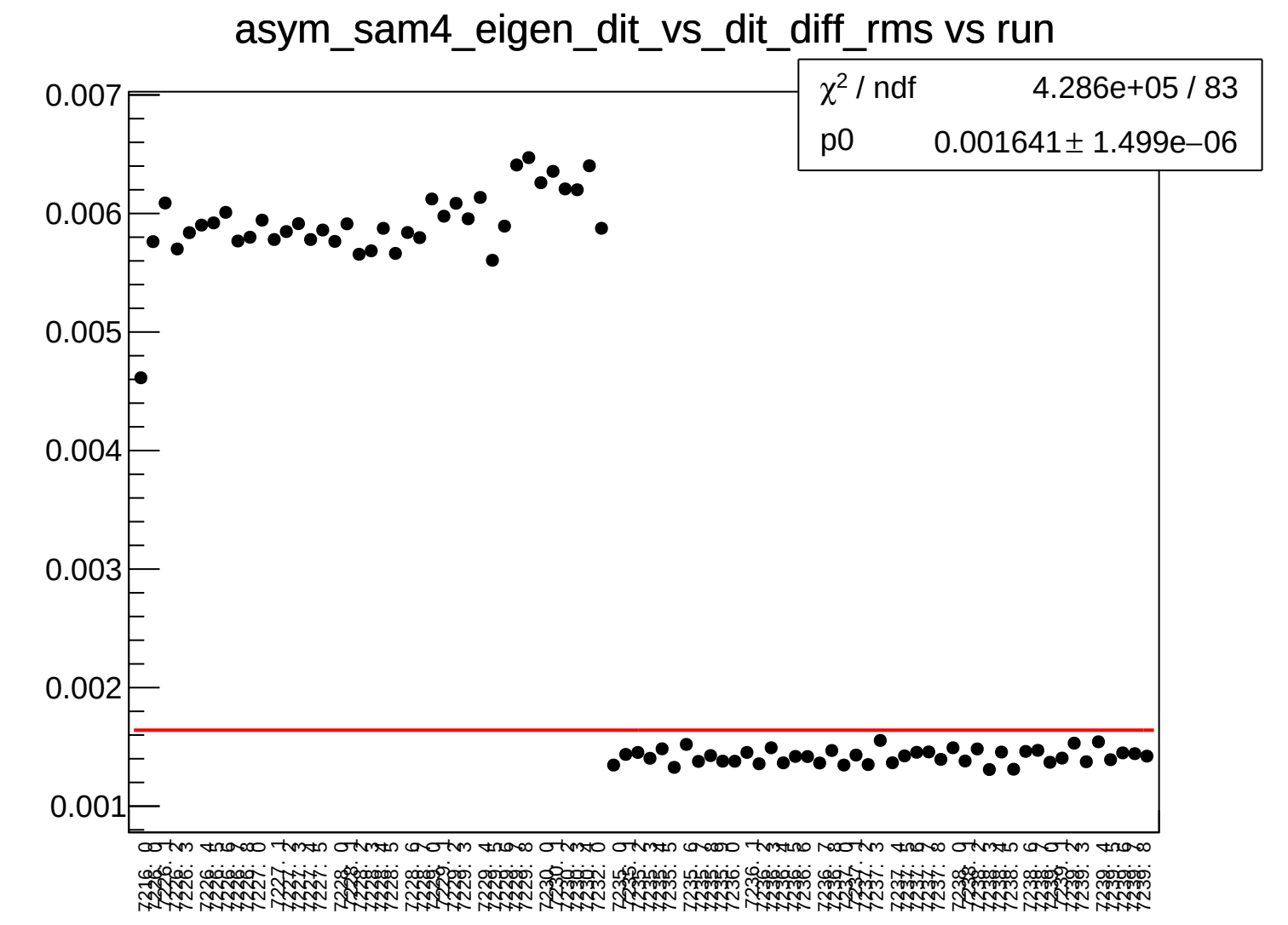

asym_sam4_dit_vs_cor_diff_rms vs run
χ² / ndf 3.549e+04 / 83
p0 105.5 ± 0.08361
200
180
160
140
120
100
80

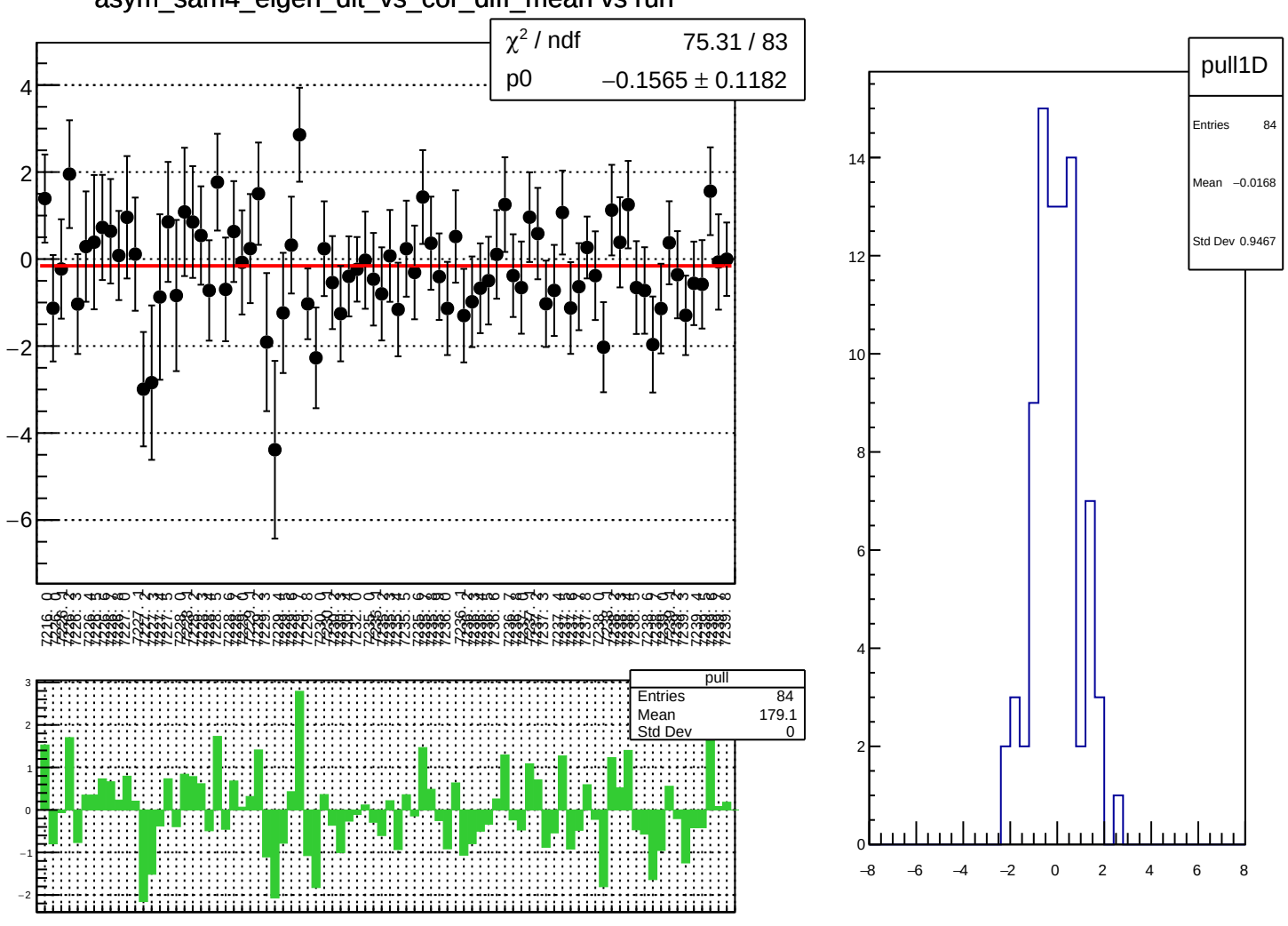

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.31 / 83
p0 −0.1565 ± 0.1182
pull
Entries 84
Mean 179.1
Std Dev 0

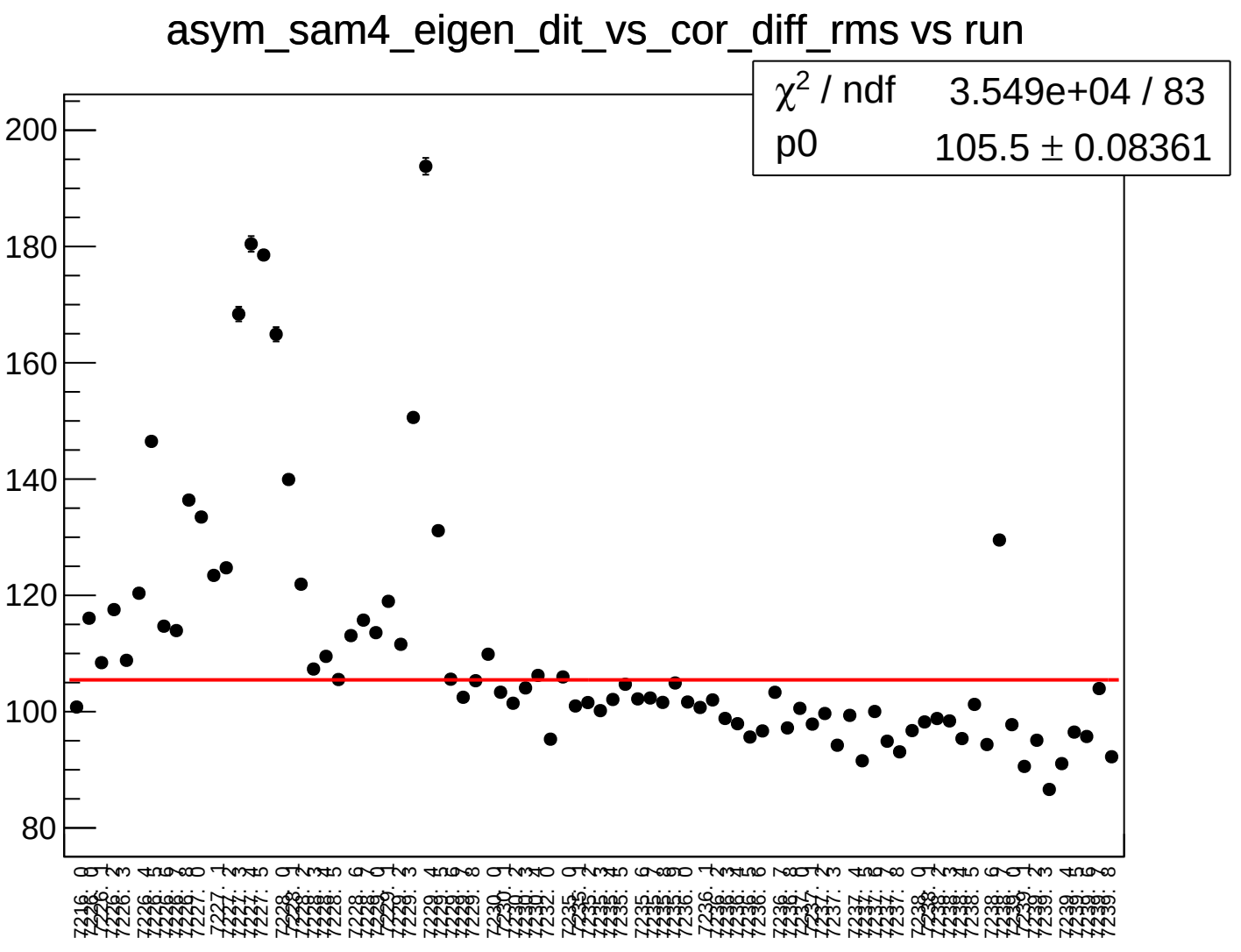

pull1D
Entries 84
Mean −0.0168
Std Dev 0.9467

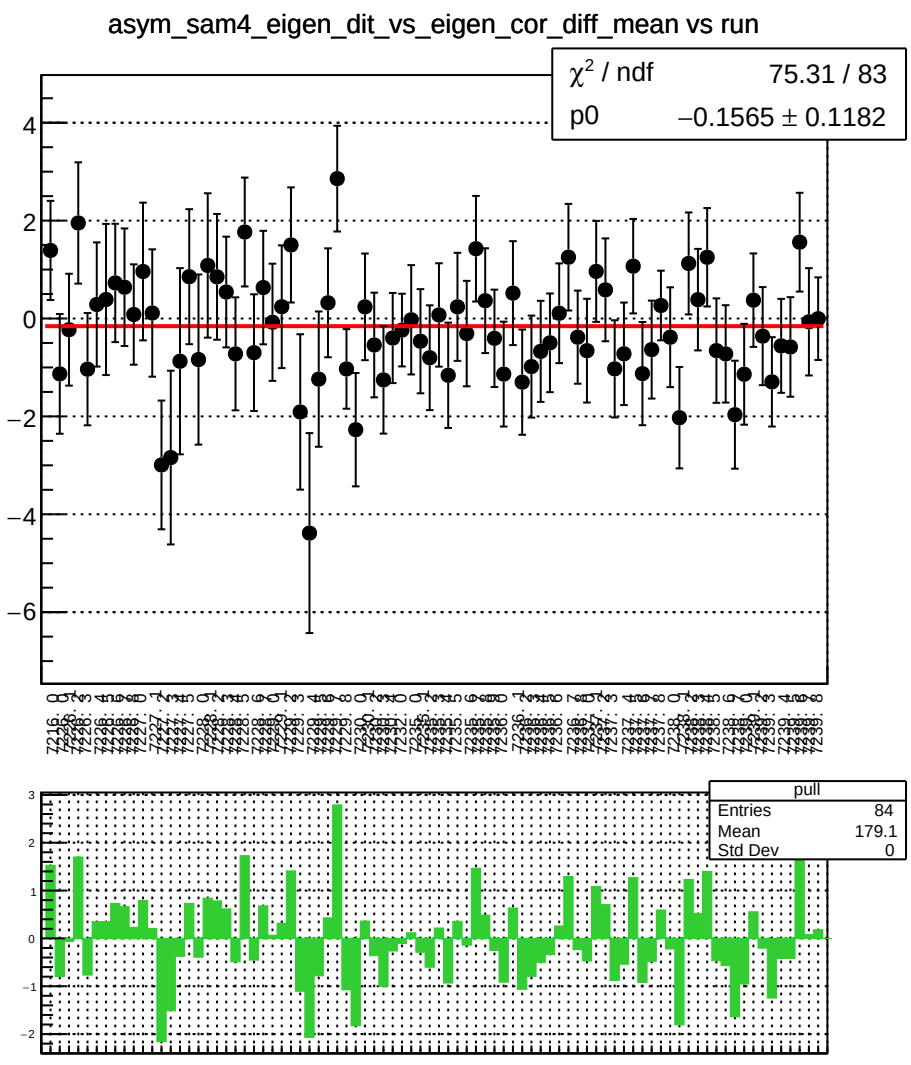

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.549e+04 / 83
p0 105.5 ± 0.08361
200
180
160
140
120
100
80

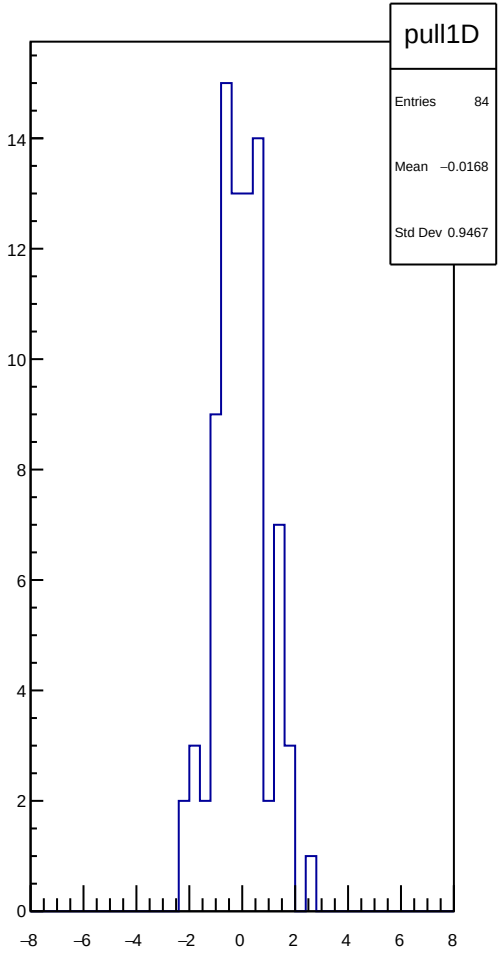

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 84.17 / 83
p0 −1.685e−06 ± 2.12e−06
×10⁻³
pull
Entries 84
Mean 15.23
Std Dev 31.89
pull1D
Entries 84
Mean 0.06839
Std Dev 0.9987

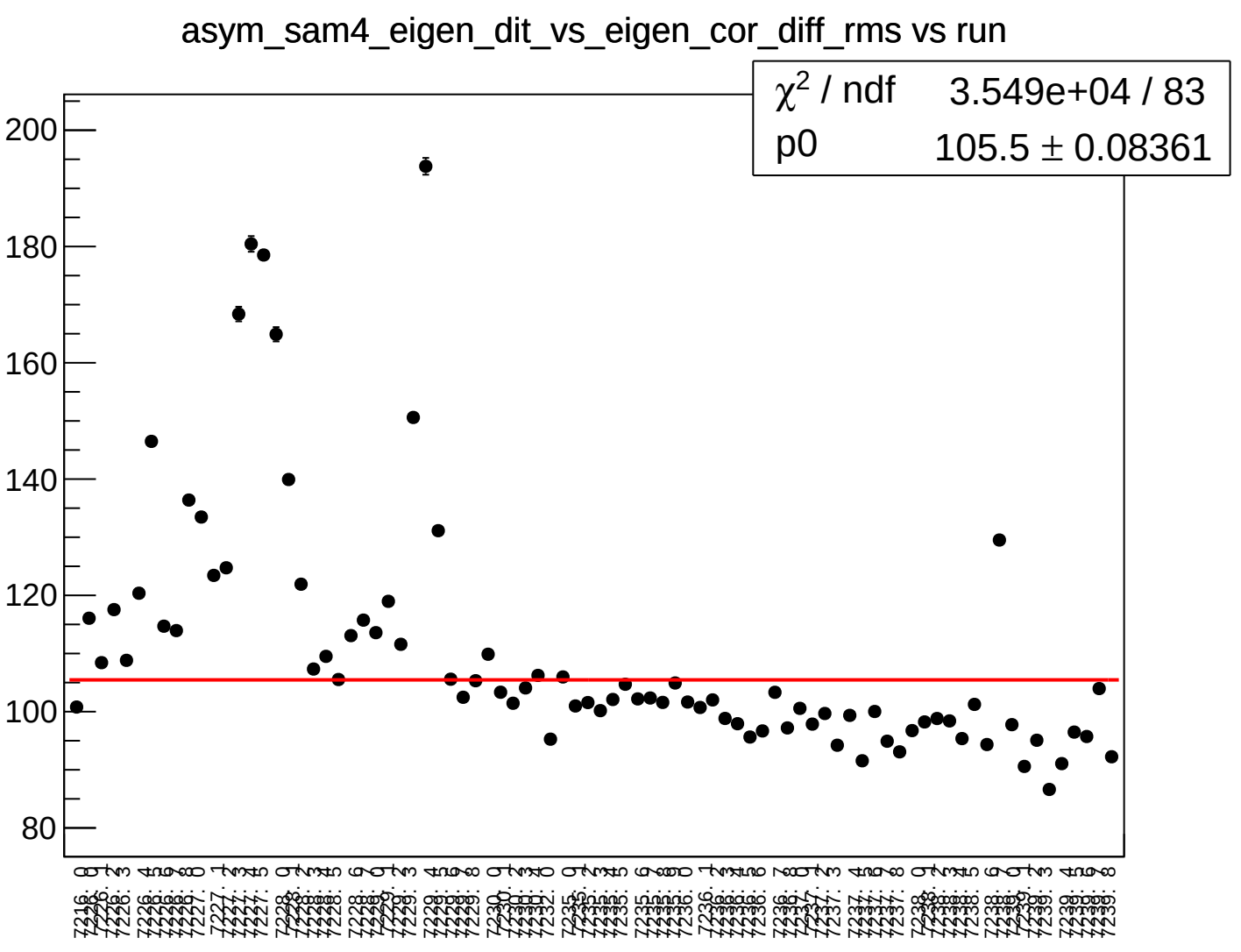

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.286e+05 / 83
p0 0.001641 ± 1.499e−06
0.007
0.006
0.005
0.004
0.003
0.002
0.001

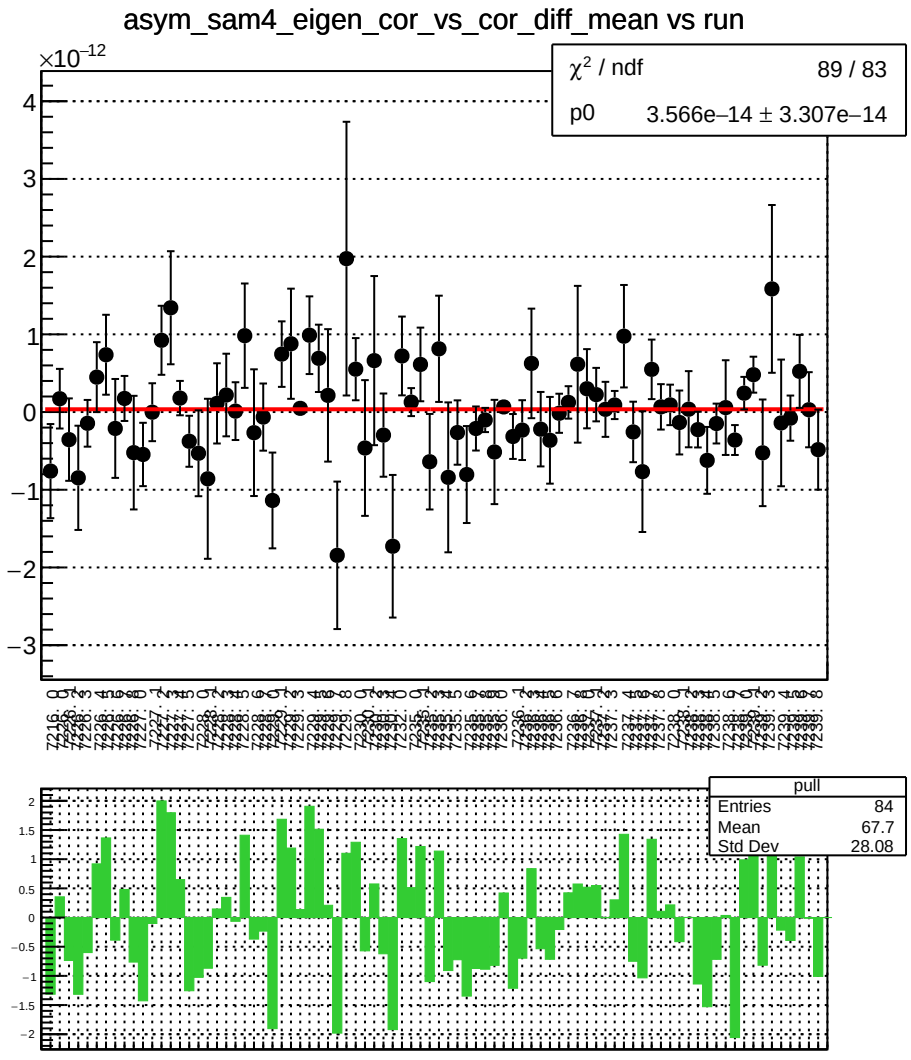

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.31 / 83
p0 −0.1565 ± 0.1182
pull
Entries 84
Mean 179.1
Std Dev 0
pull1D
Entries 84
Mean −0.0168
Std Dev 0.9467

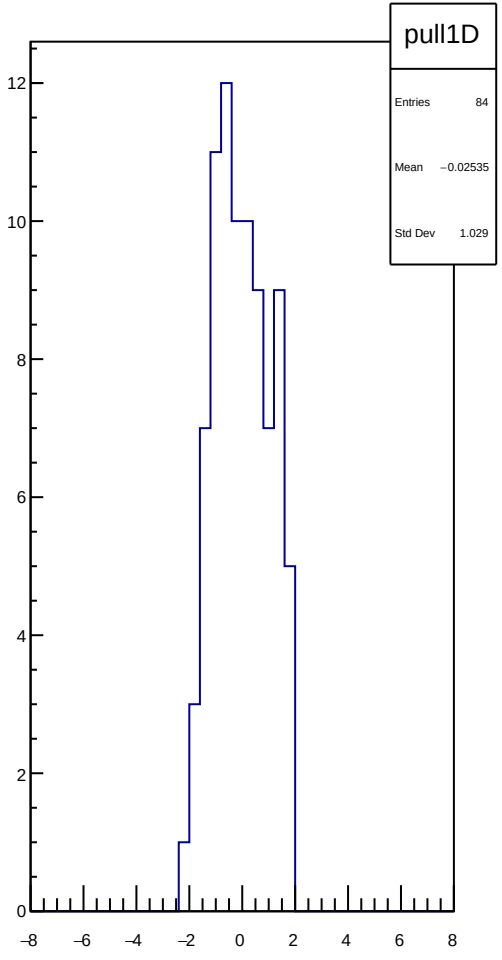

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.549e+04 / 83
p0 105.5 ± 0.08361
200
180
160
140
120
100
80

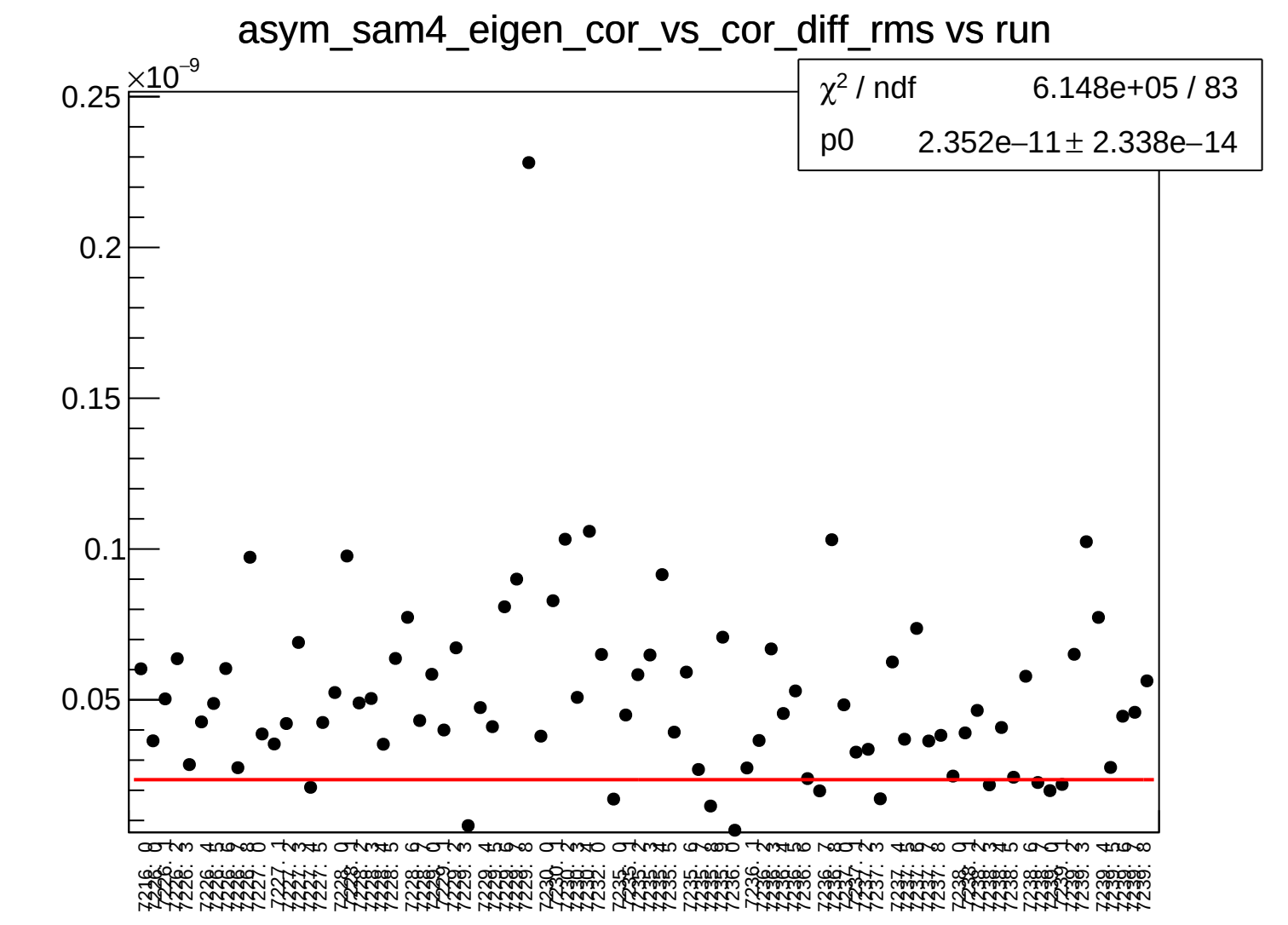

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ^2 / ndf 75.31 / 83
p0 −0.1565 ± 0.1182
pull
Entries 84
Mean 179.1
Std Dev 0

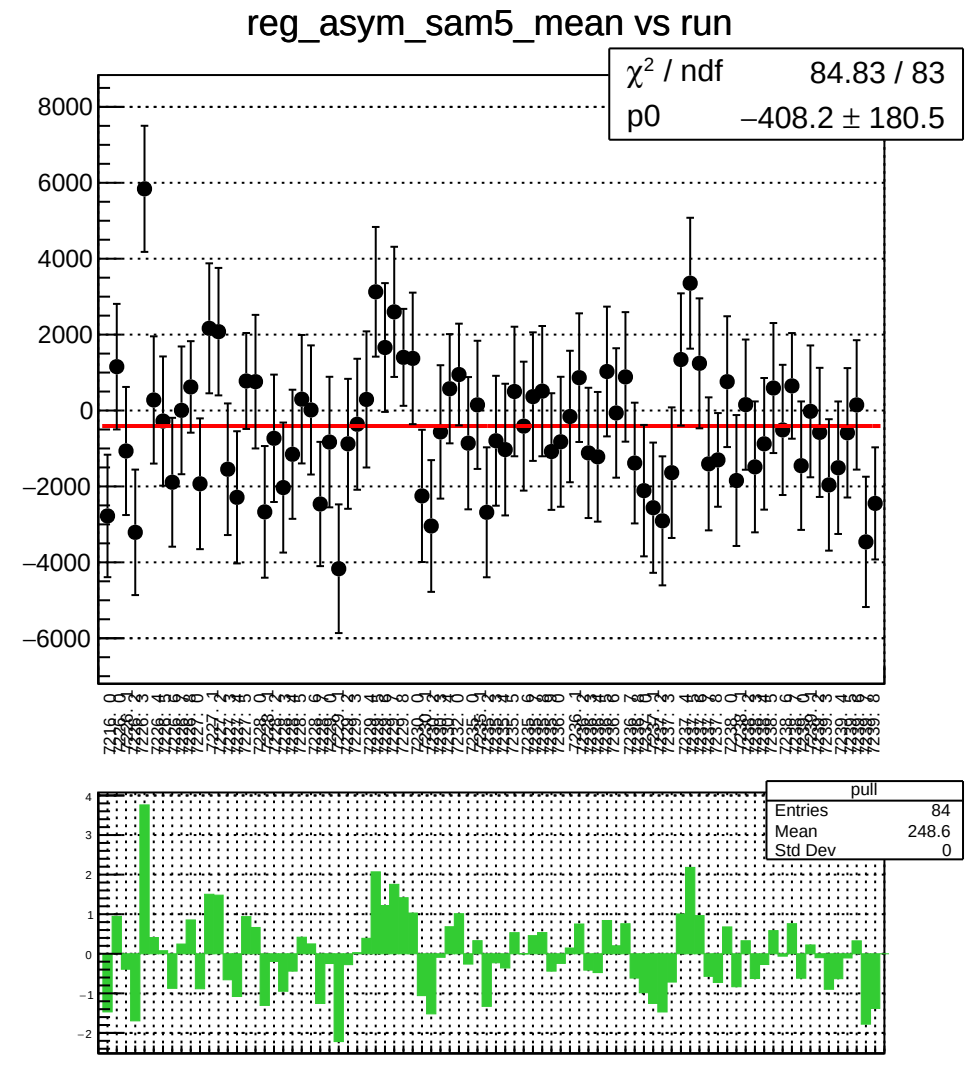

pull1D
Entries 84
Mean −0.0168
Std Dev 0.9467

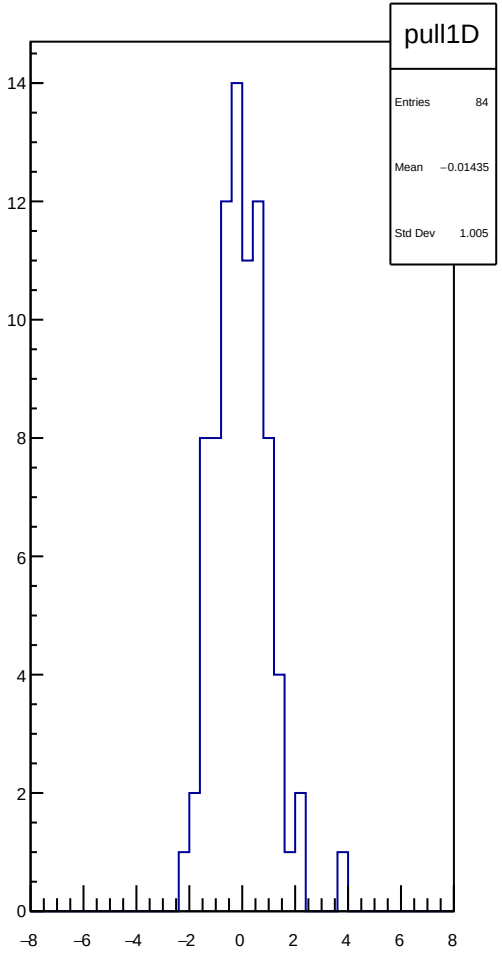

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.549e+04 / 83
p0 105.5 ± 0.08361
200
180
160
140
120
100
80

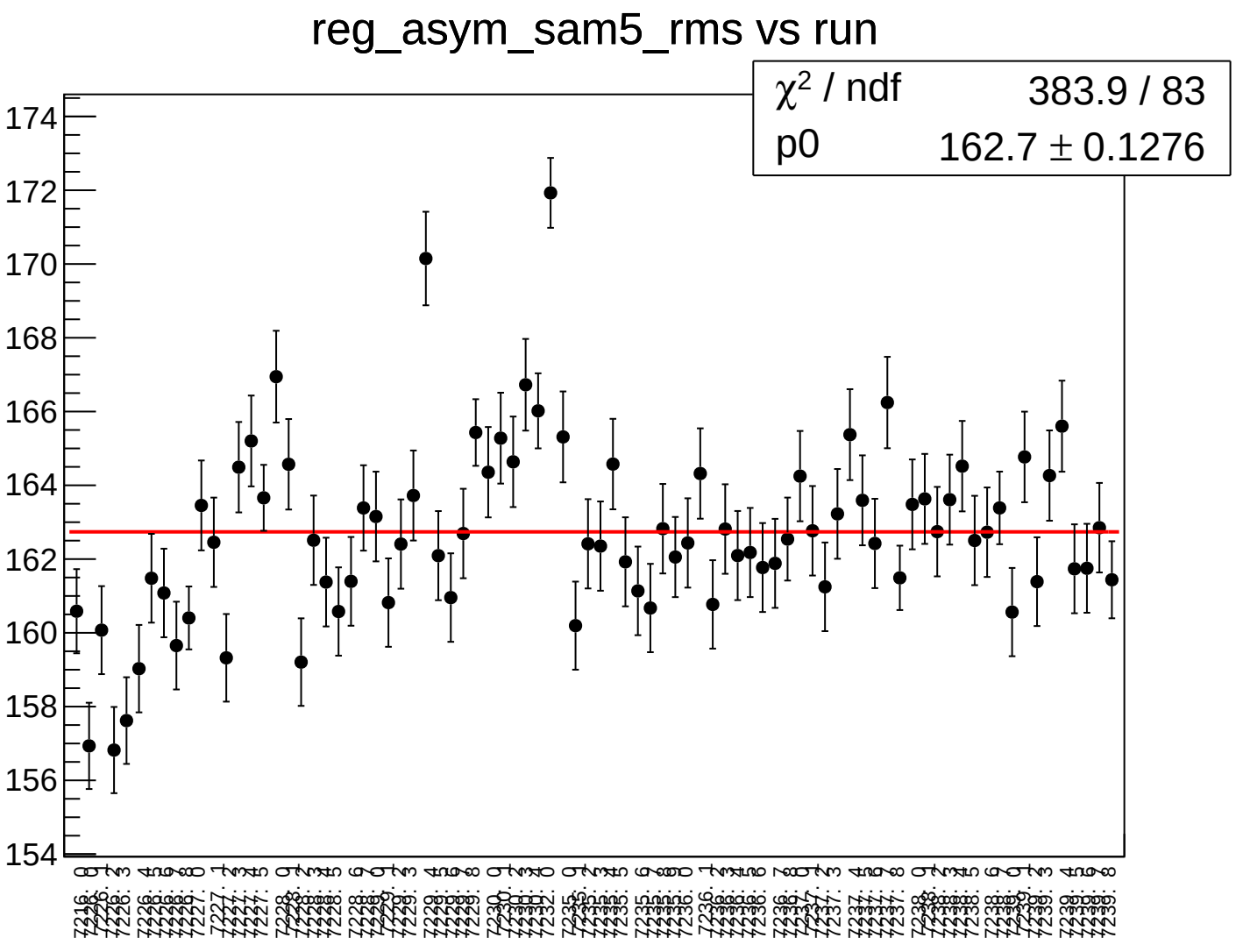

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89 / 83
p0 3.566e−14 ± 3.307e−14
pull
Entries 84
Mean 67.7
Std Dev 28.08

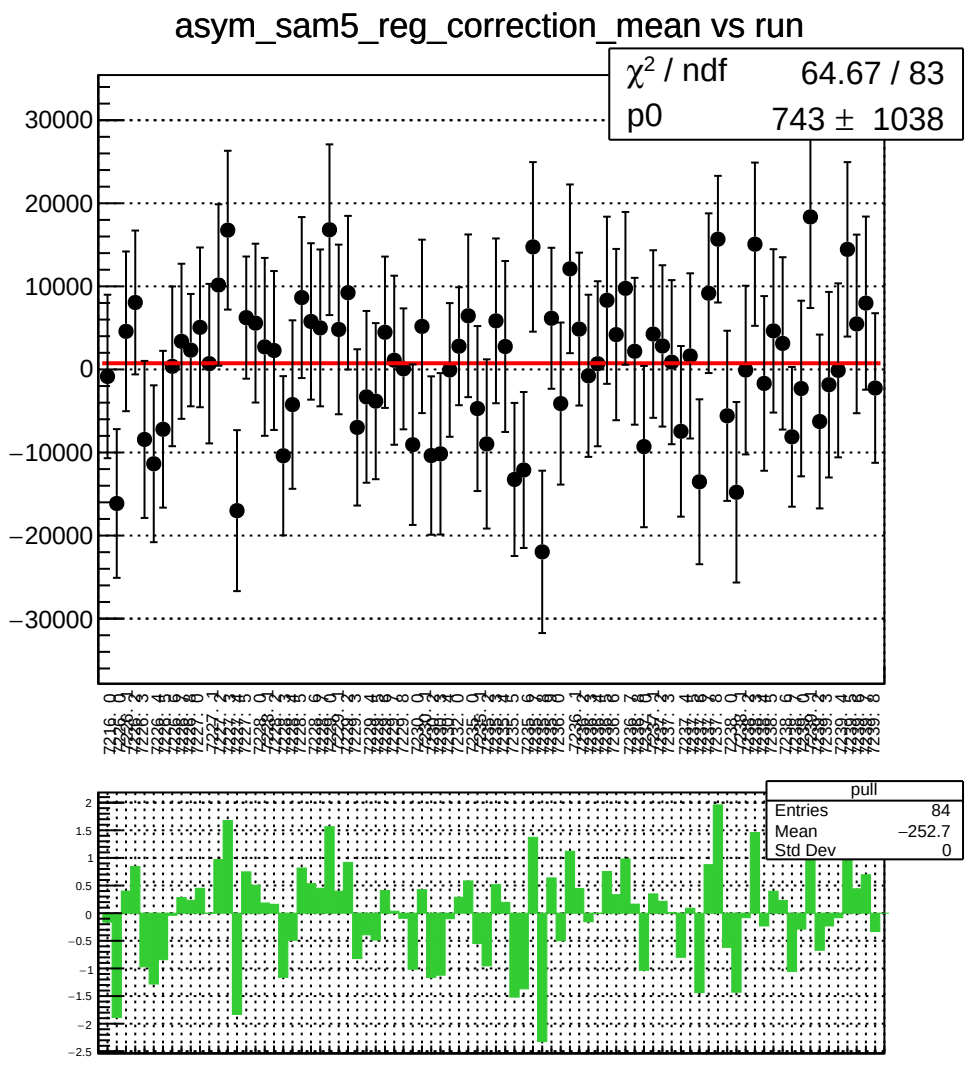

pull1D
Entries 84
Mean −0.02535
Std Dev 1.029

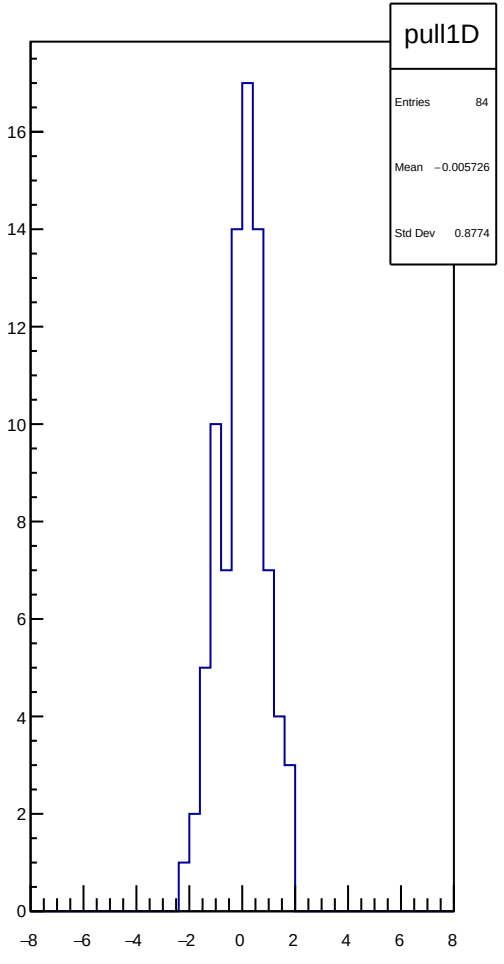

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.25
0.2
0.15
0.1
0.05
χ² / ndf 6.148e+05 / 83
p0 2.352e−11 ± 2.338e−14

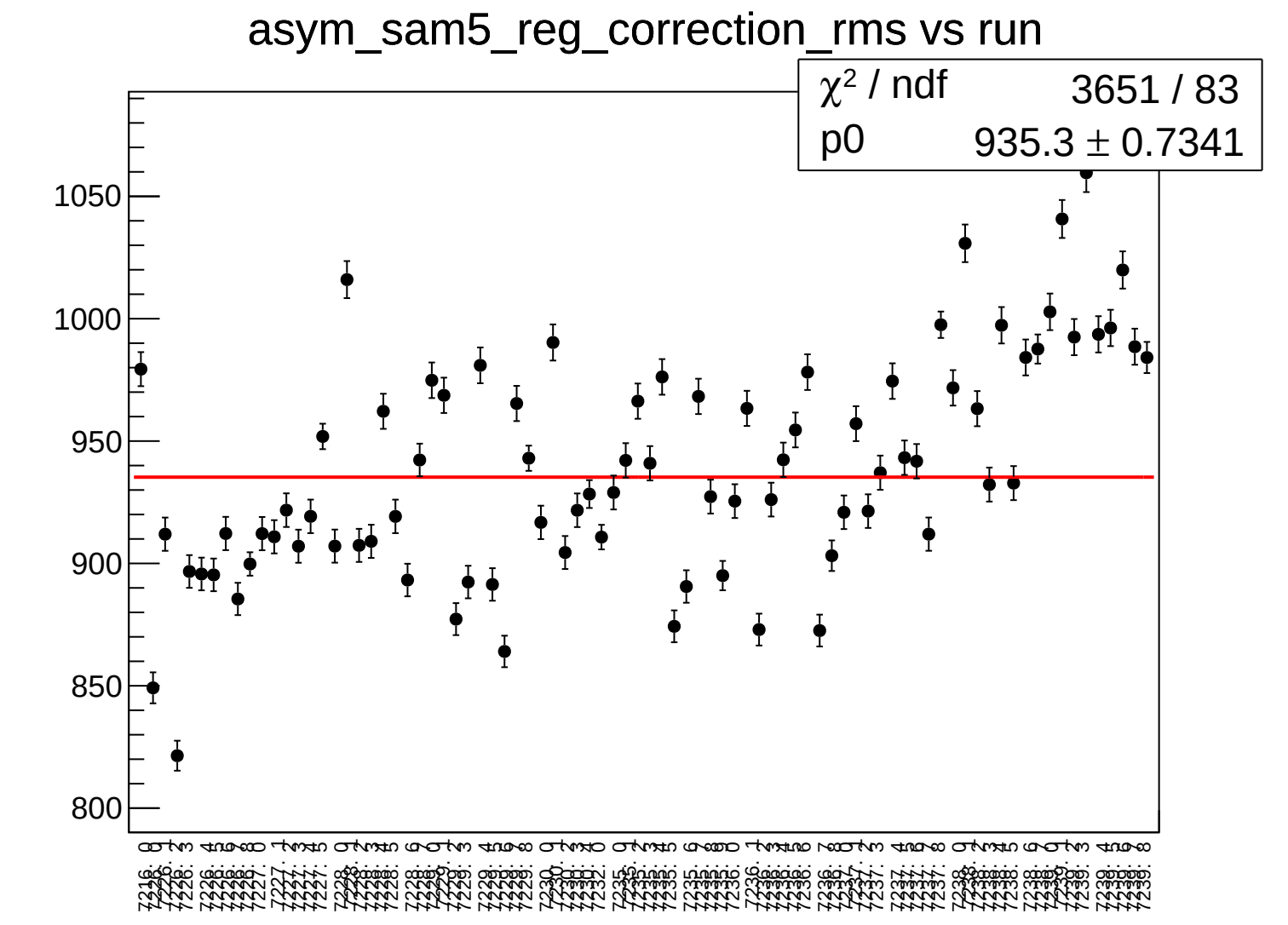

reg_asym_sam5_mean vs run
χ² / ndf 84.83 / 83
p0 −408.2 ± 180.5
pull
Entries 84
Mean 248.6
Std Dev 0

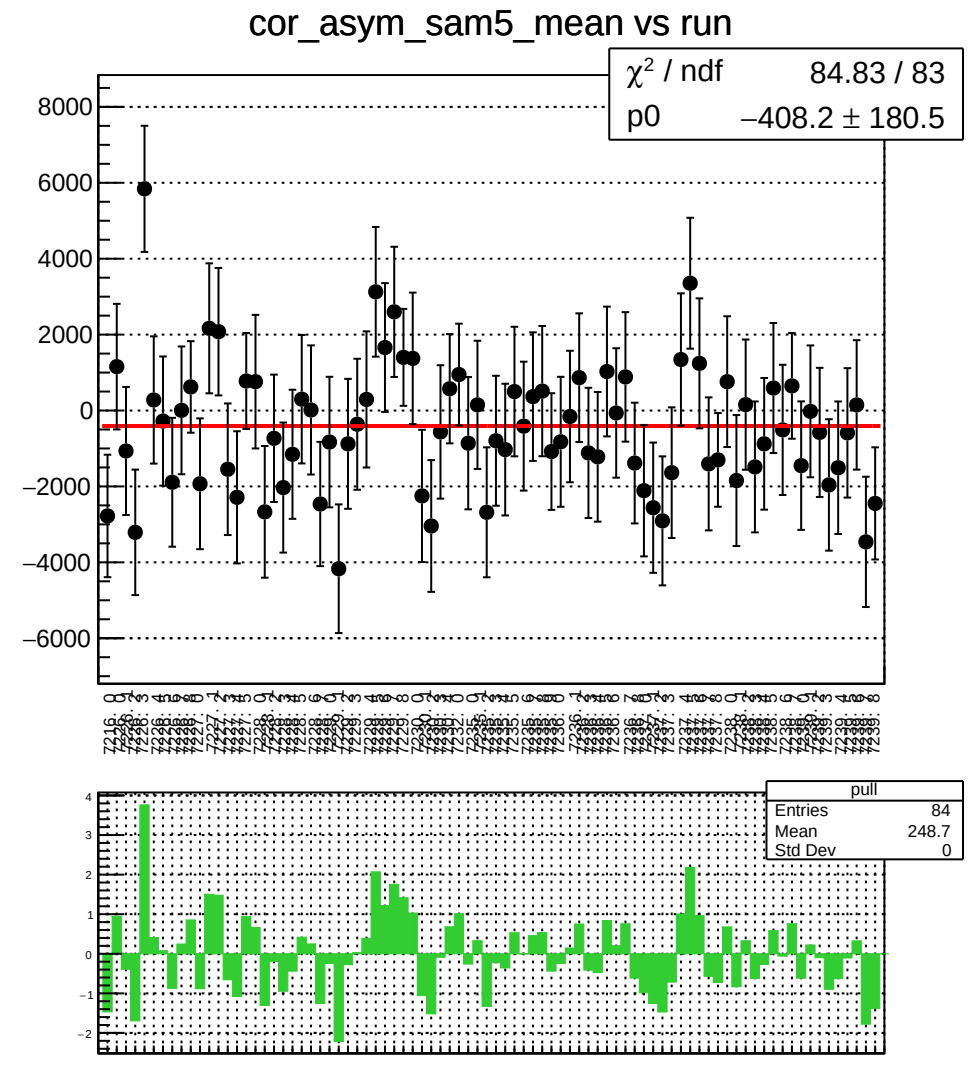

pull1D
Entries 84
Mean −0.01435
Std Dev 1.005

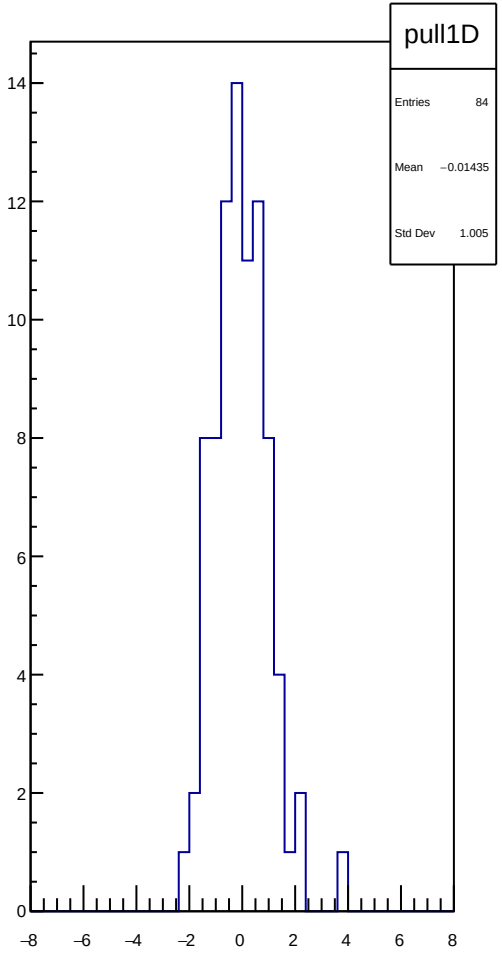

reg_asym_sam5_rms vs run
χ² / ndf 383.9 / 83
p0 162.7 ± 0.1276
174
172
170
168
166
164
162
160
158
156
154

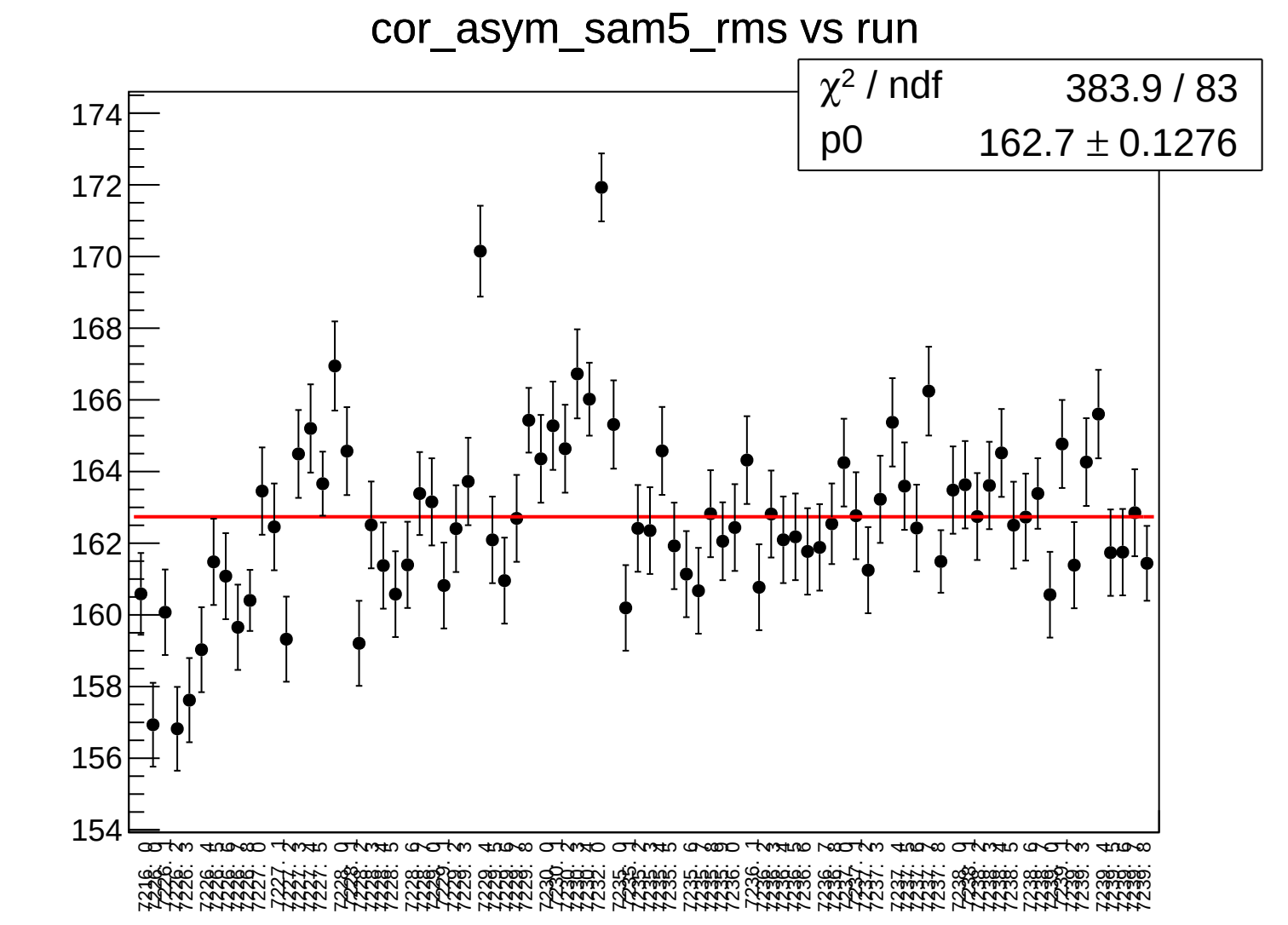

asym_sam5_reg_correction_mean vs run
χ² / ndf 64.67 / 83
p0 743 ± 1038
pull
Entries 84
Mean −252.7
Std Dev 0

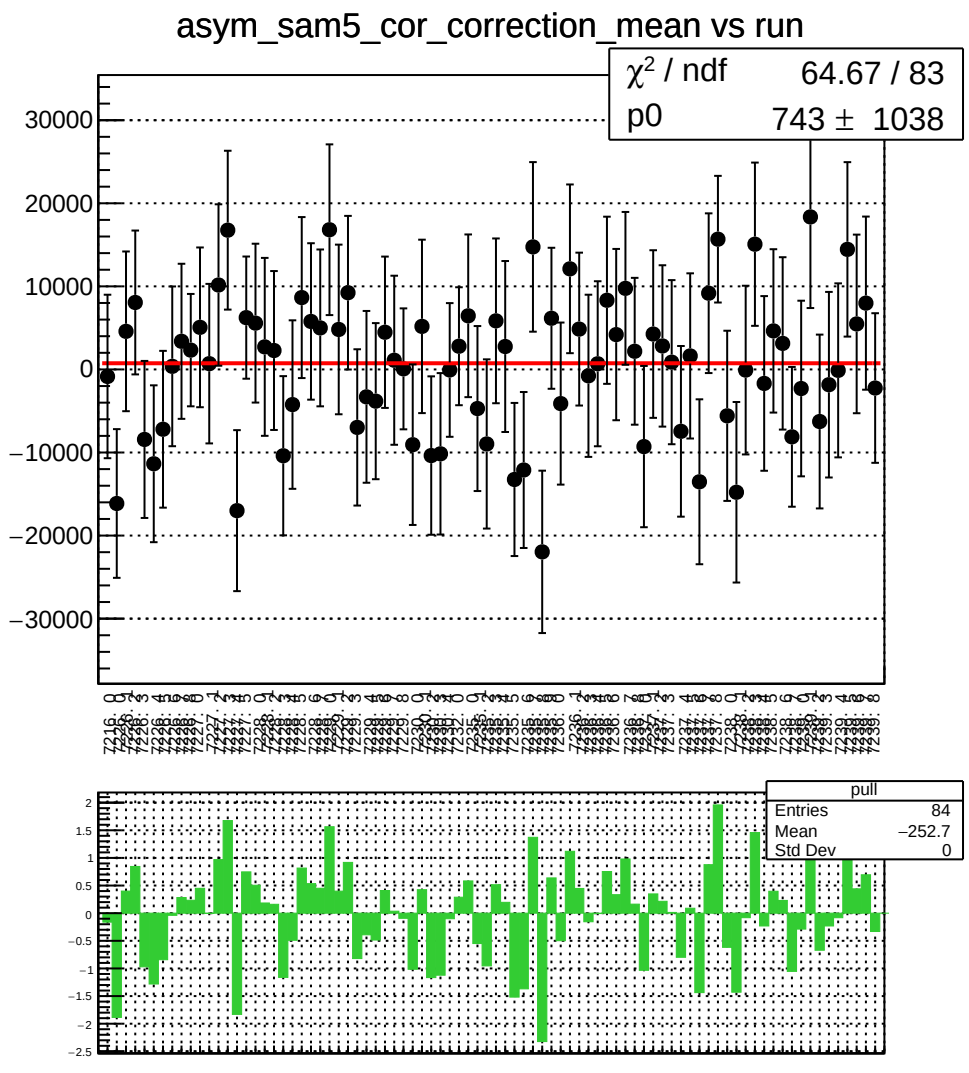

pull1D
Entries 84
Mean −0.005726
Std Dev 0.8774

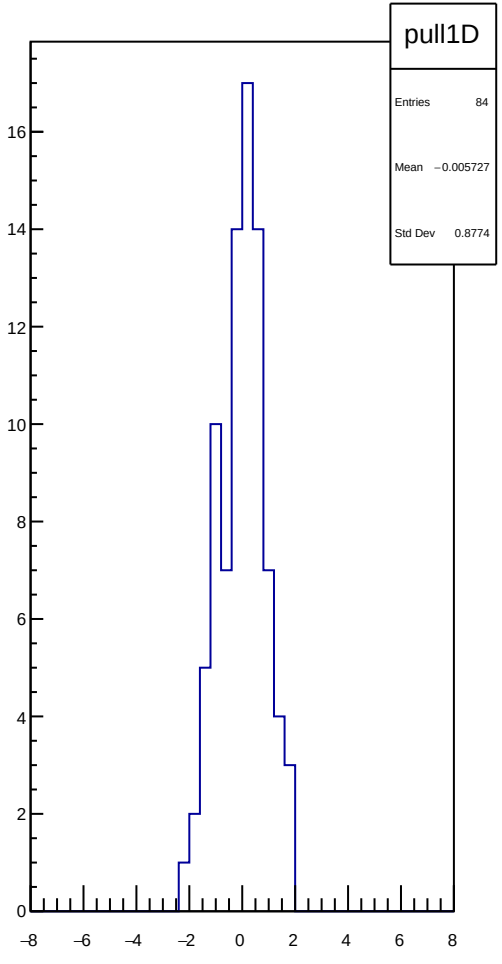

asym_sam5_reg_correction_rms vs run
χ² / ndf 3651 / 83
p0 935.3 ± 0.7341
1050
1000
950
900
850
800

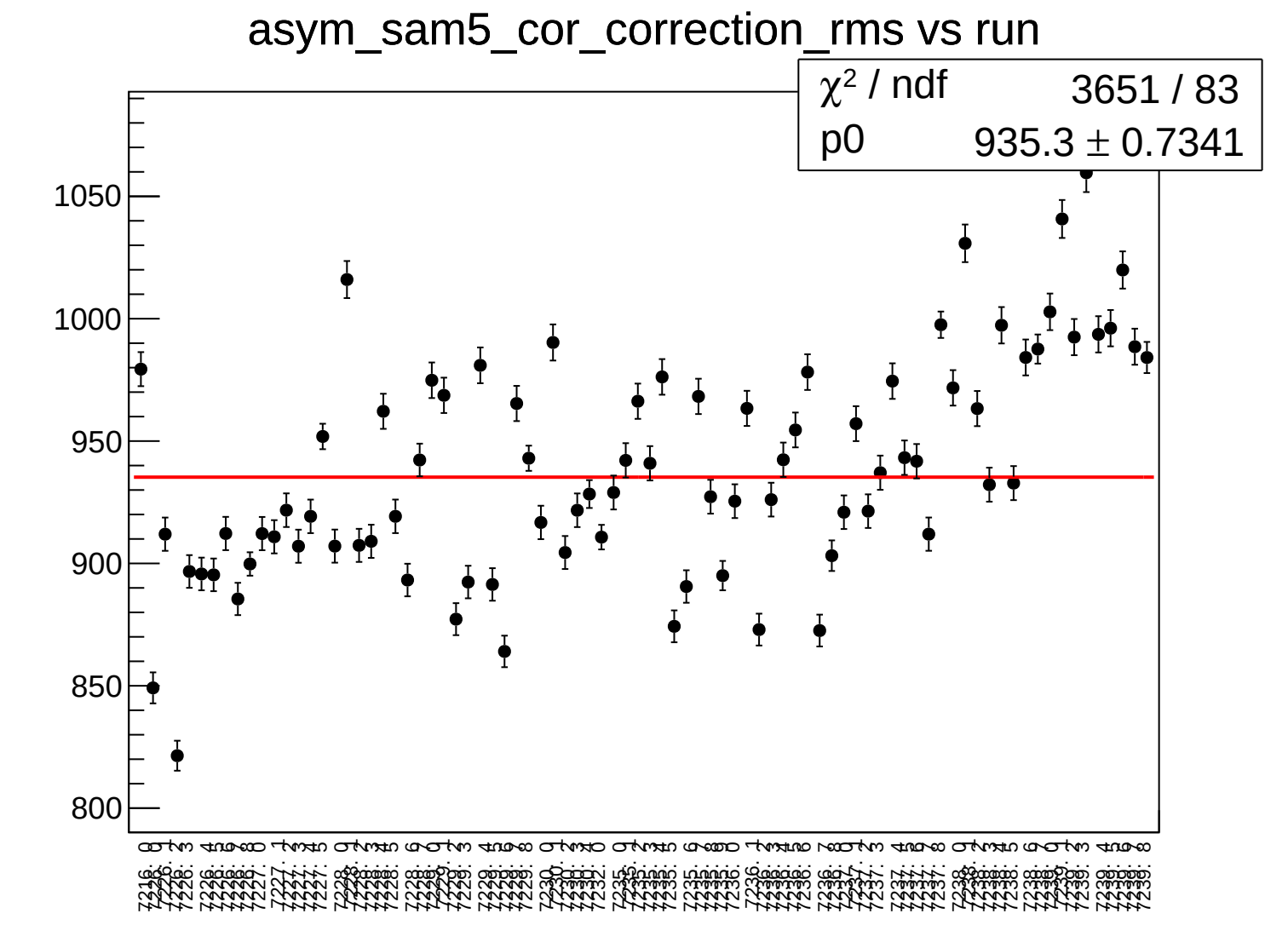

cor_asym_sam5_mean vs run
χ² / ndf 84.83 / 83
p0 −408.2 ± 180.5
pull
Entries 84
Mean 248.7
Std Dev 0

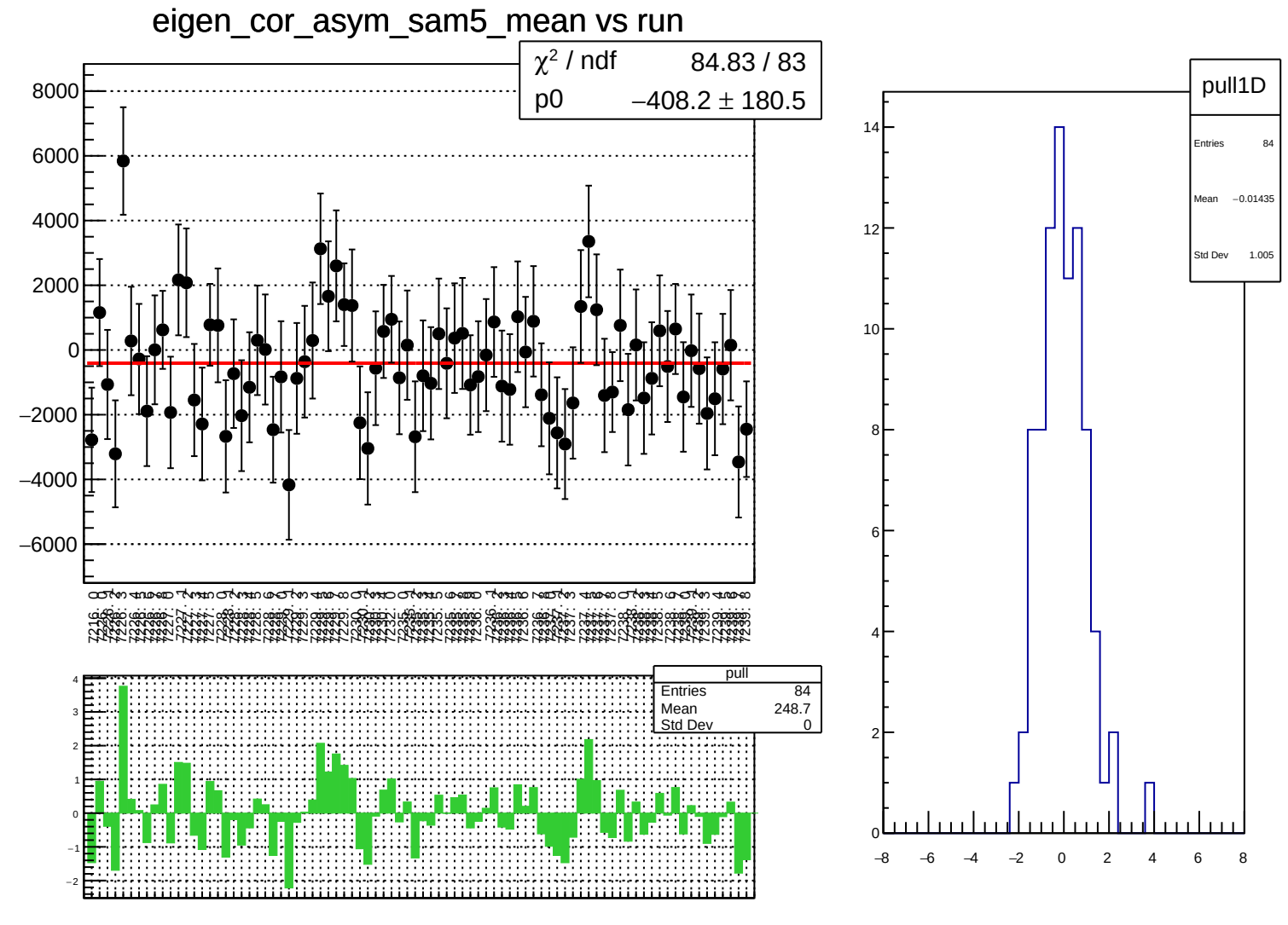

pull1D
Entries 84
Mean −0.01435
Std Dev 1.005

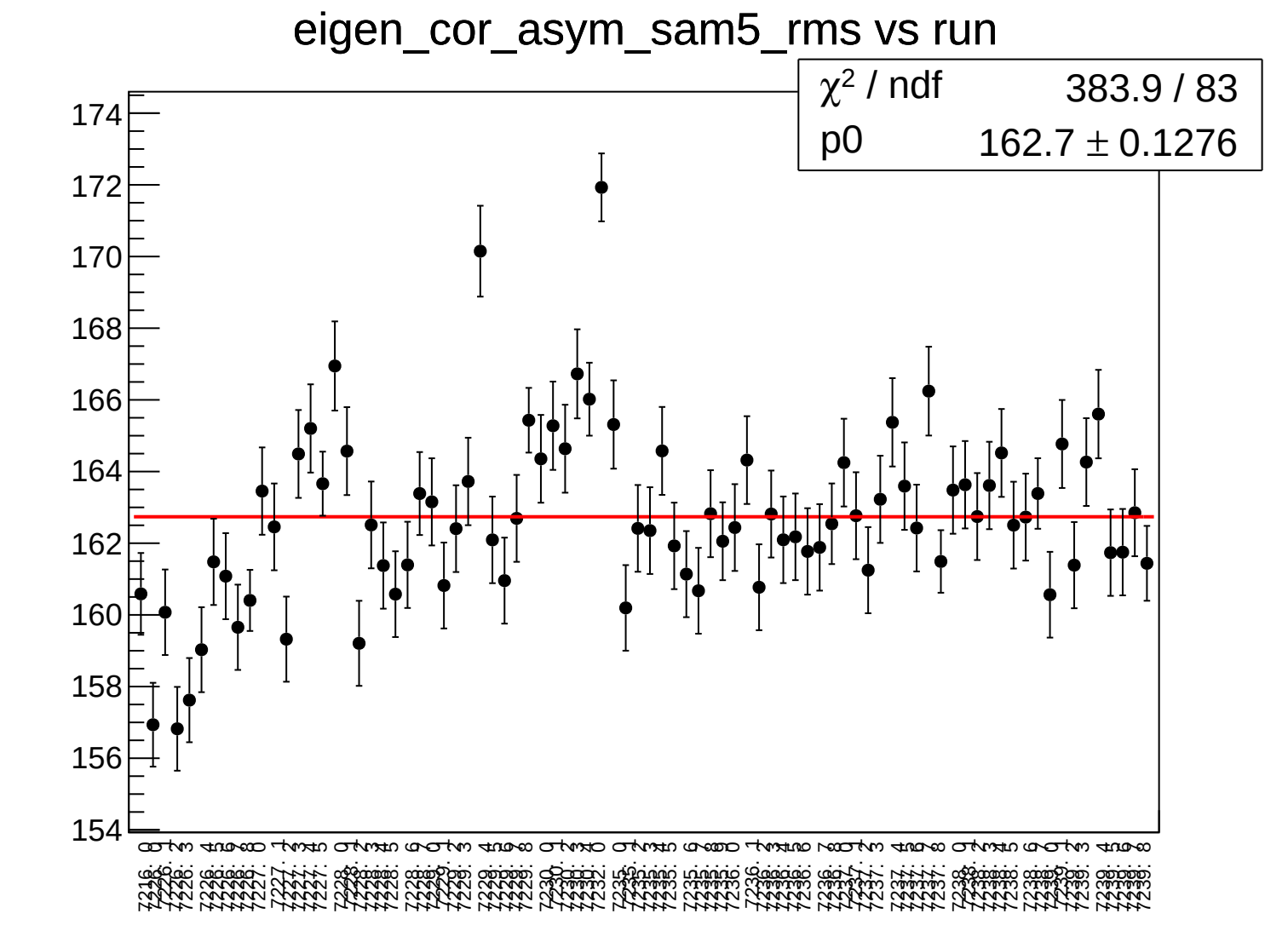

cor_asym_sam5_rms vs run
χ² / ndf 383.9 / 83
p0 162.7 ± 0.1276
174
172
170
168
166
164
162
160
158
156
154

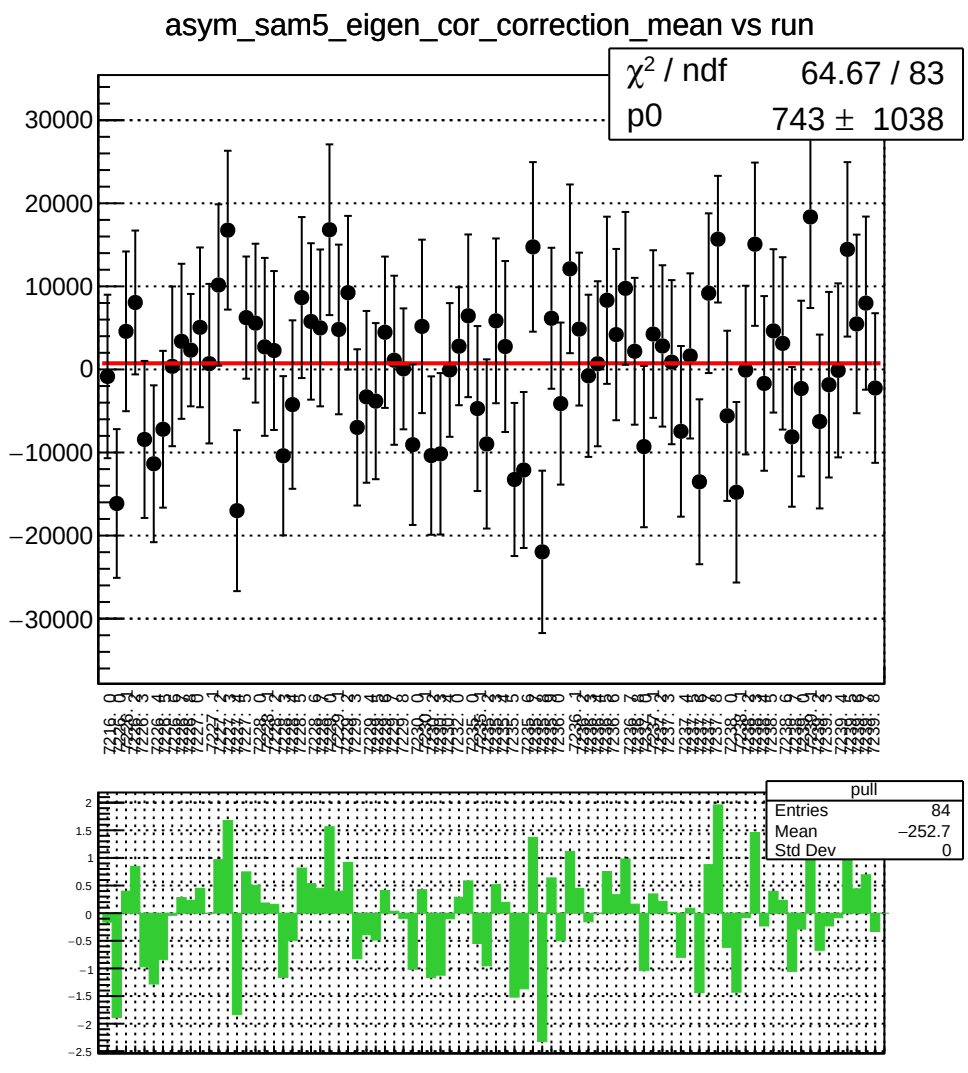

asym_sam5_cor_correction_mean vs run
χ² / ndf 64.67 / 83
p0 743 ± 1038
pull
Entries 84
Mean −252.7
Std Dev 0

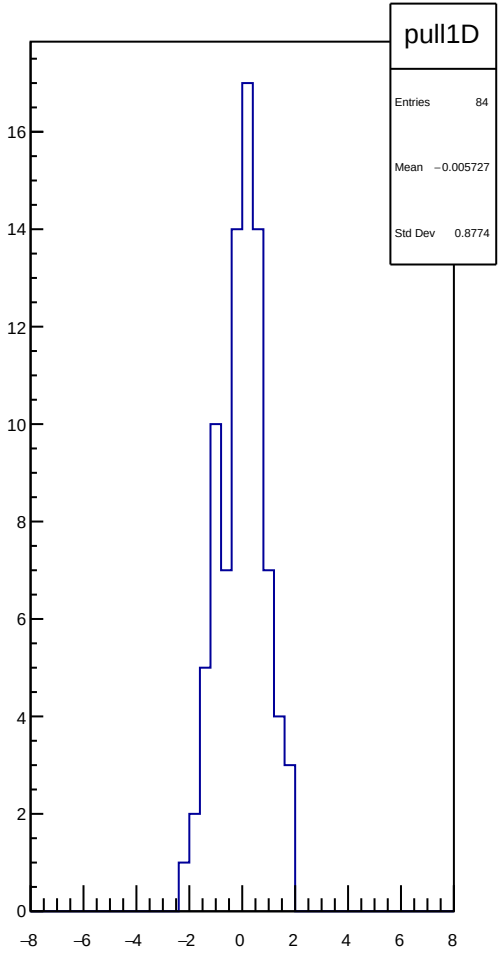

pull1D
Entries 84
Mean −0.005727
Std Dev 0.8774

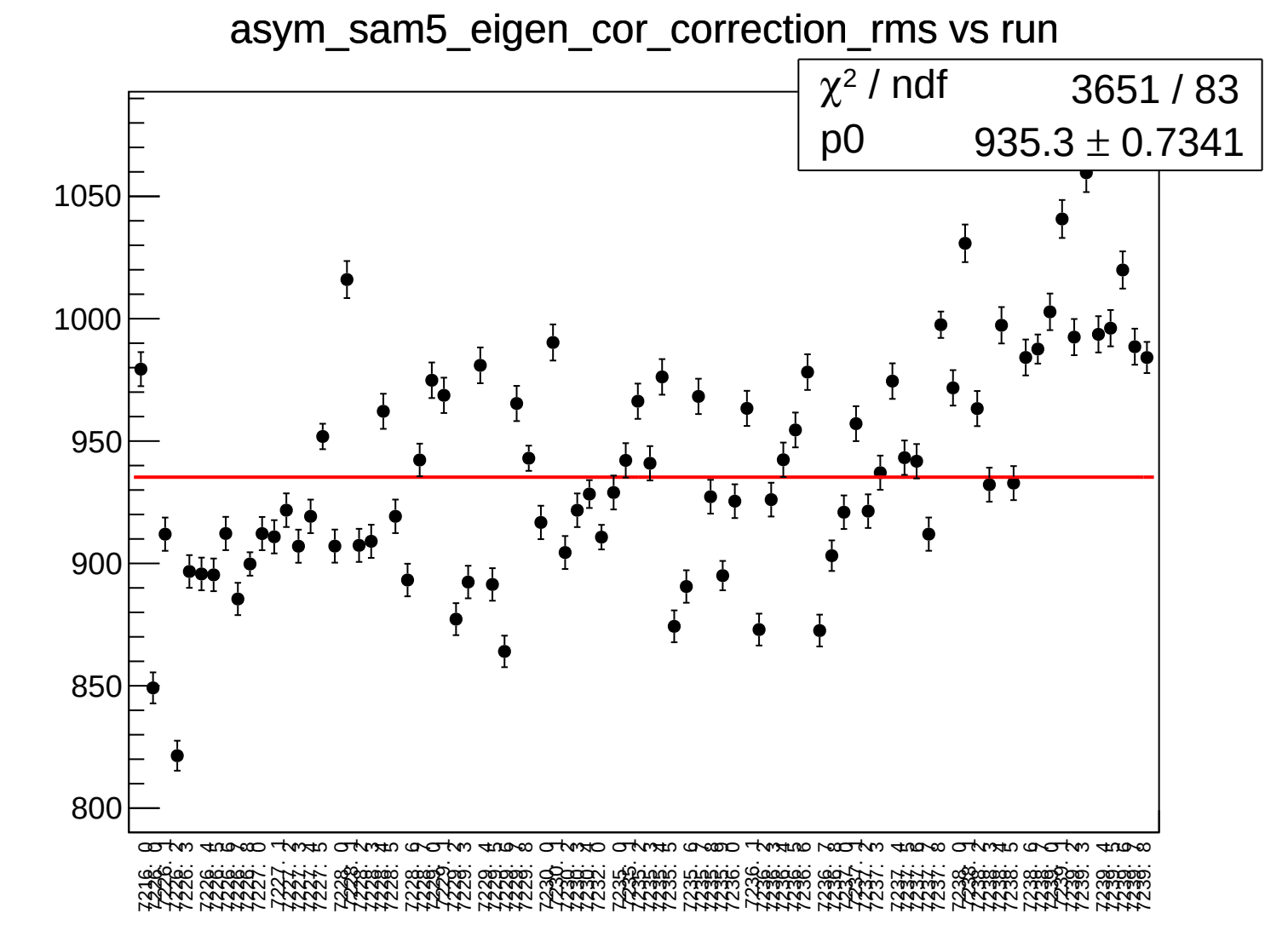

asym_sam5_cor_correction_rms vs run
χ² / ndf 3651 / 83
p0 935.3 ± 0.7341
1050
1000
950
900
850
800

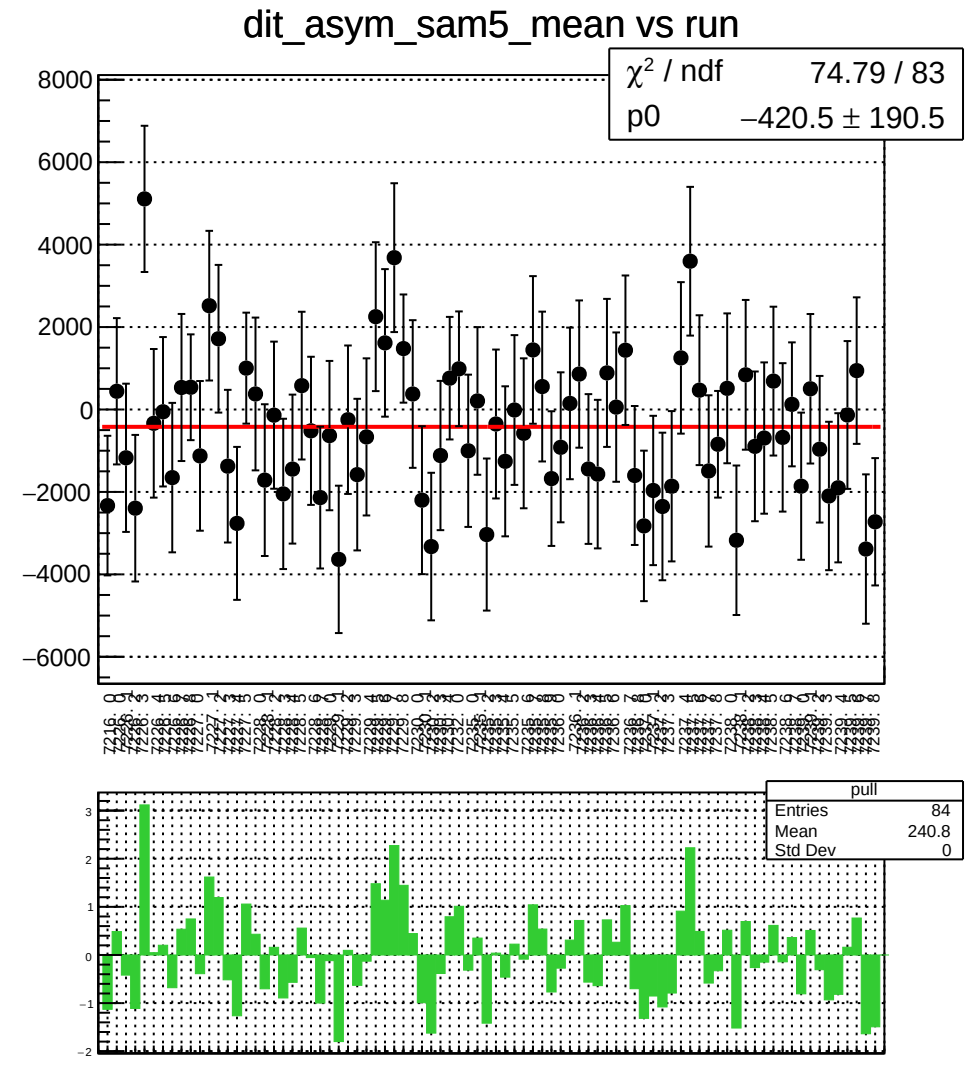

eigen_cor_asym_sam5_mean vs run
χ² / ndf 84.83 / 83
p0 −408.2 ± 180.5
pull
Entries 84
Mean 248.7
Std Dev 0
pull1D
Entries 84
Mean −0.01435
Std Dev 1.005

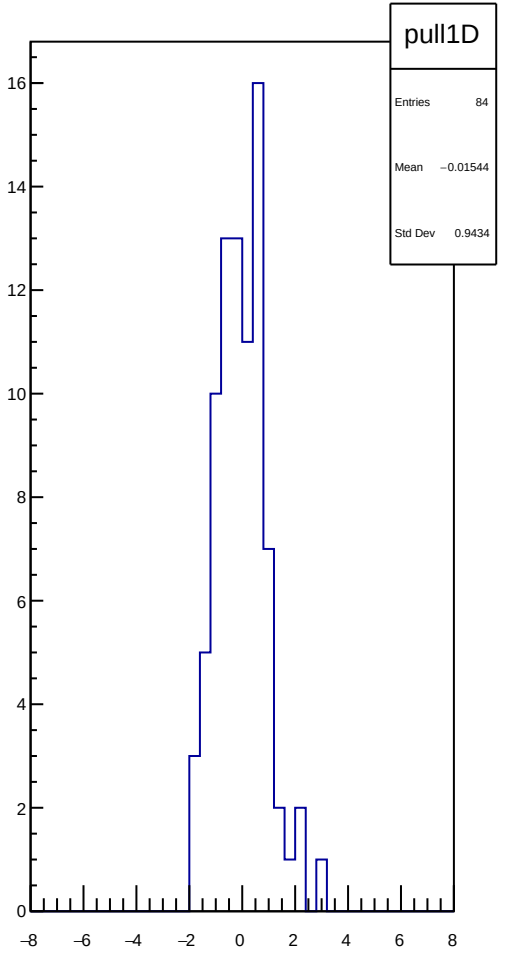

eigen_cor_asym_sam5_rms vs run
χ^2 / ndf 383.9 / 83
p0 162.7 ± 0.1276
174
172
170
168
166
164
162
160
158
156
154

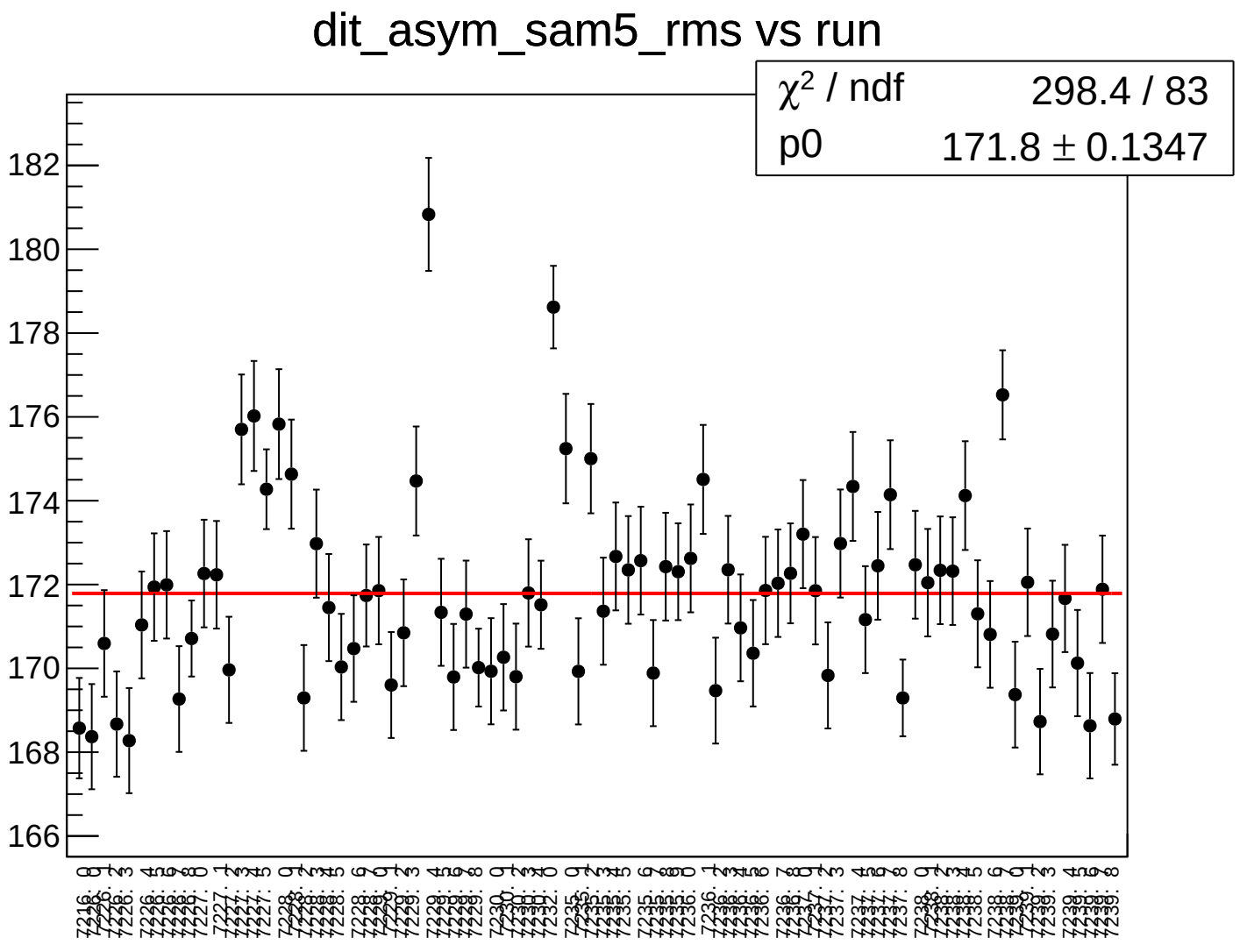

asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 64.67 / 83
p0 743 ± 1038
pull
Entries 84
Mean −252.7
Std Dev 0

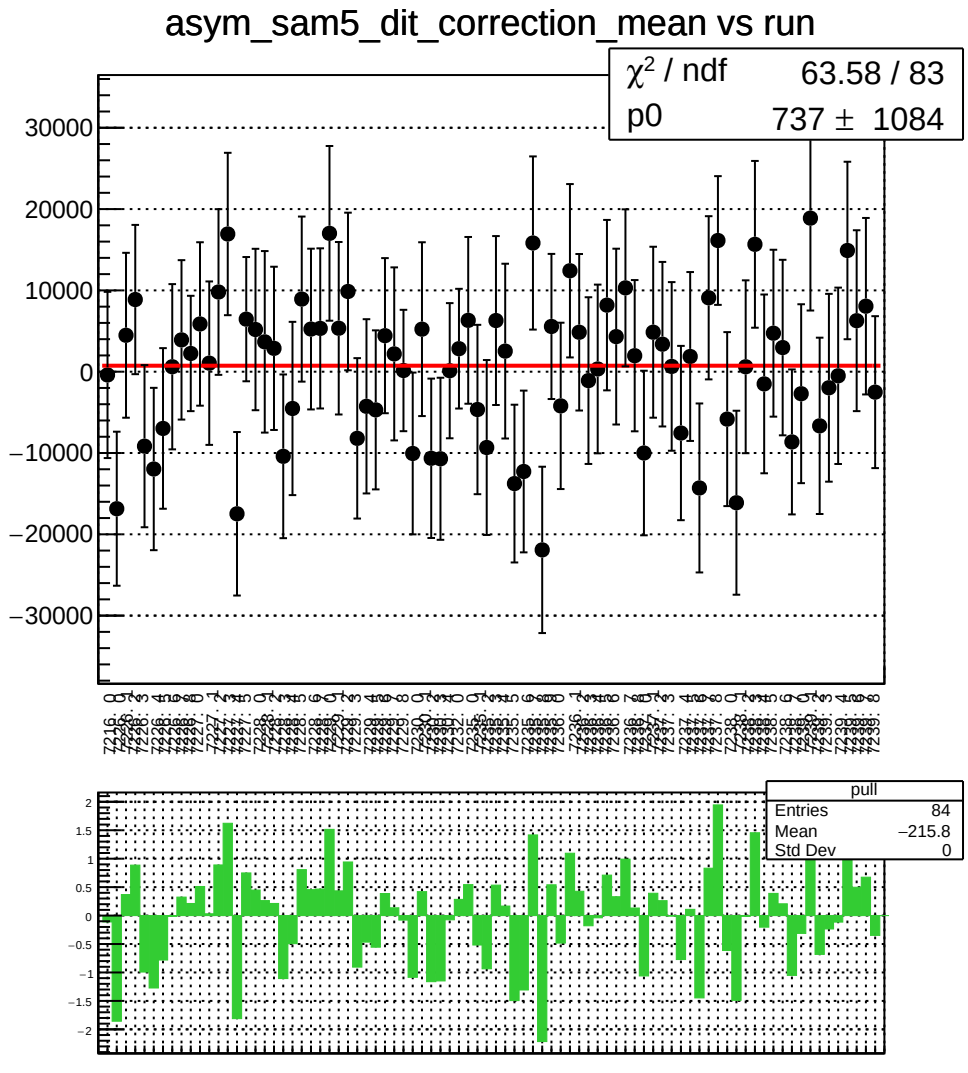

pull1D
Entries 84
Mean −0.005727
Std Dev 0.8774

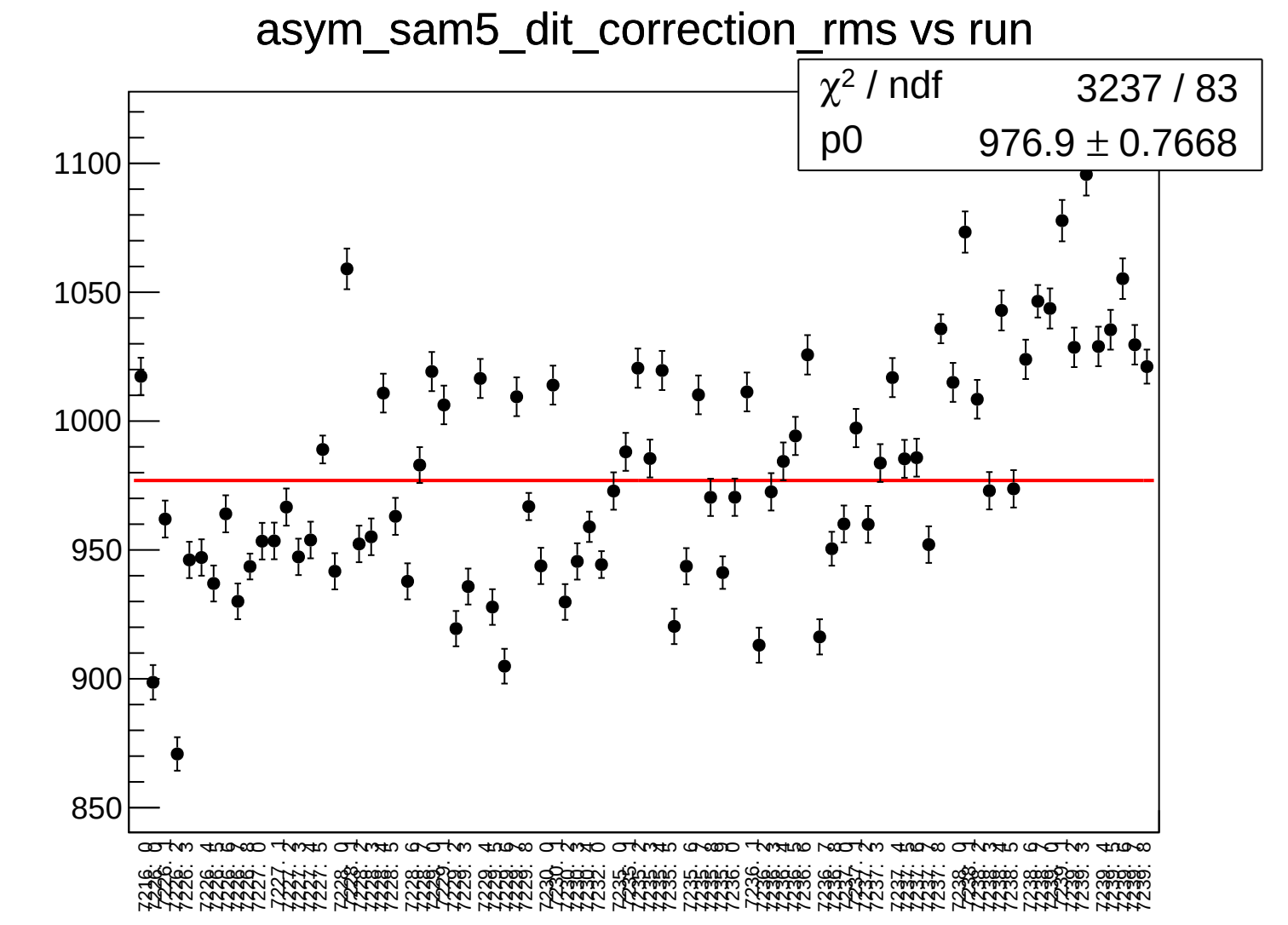

asym_sam5_eigen_cor_correction_rms vs run
χ² / ndf 3651 / 83
p0 935.3 ± 0.7341
1050
1000
950
900
850
800

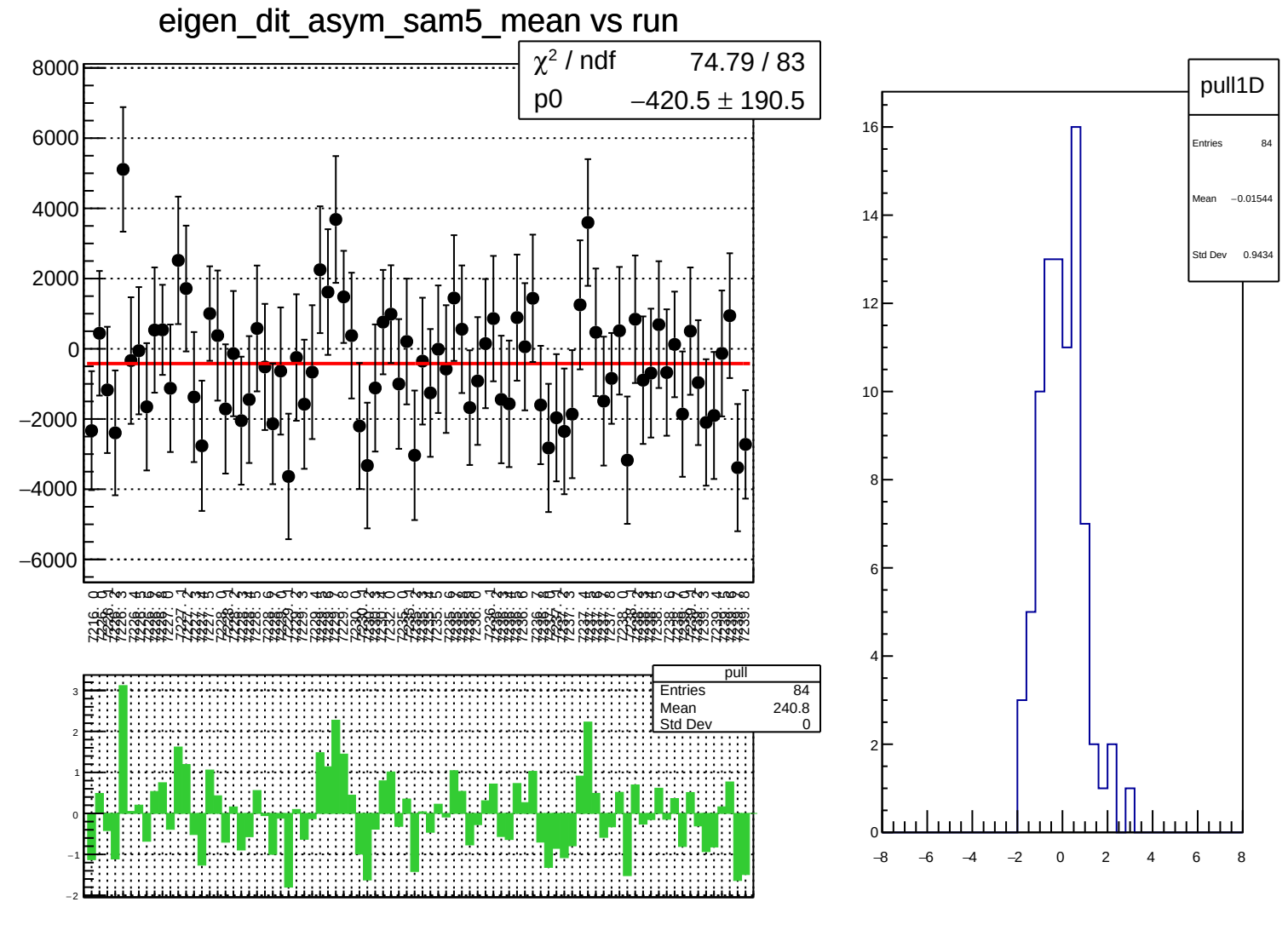

dit_asym_sam5_mean vs run
χ² / ndf 74.79 / 83
p0 −420.5 ± 190.5
pull
Entries 84
Mean 240.8
Std Dev 0

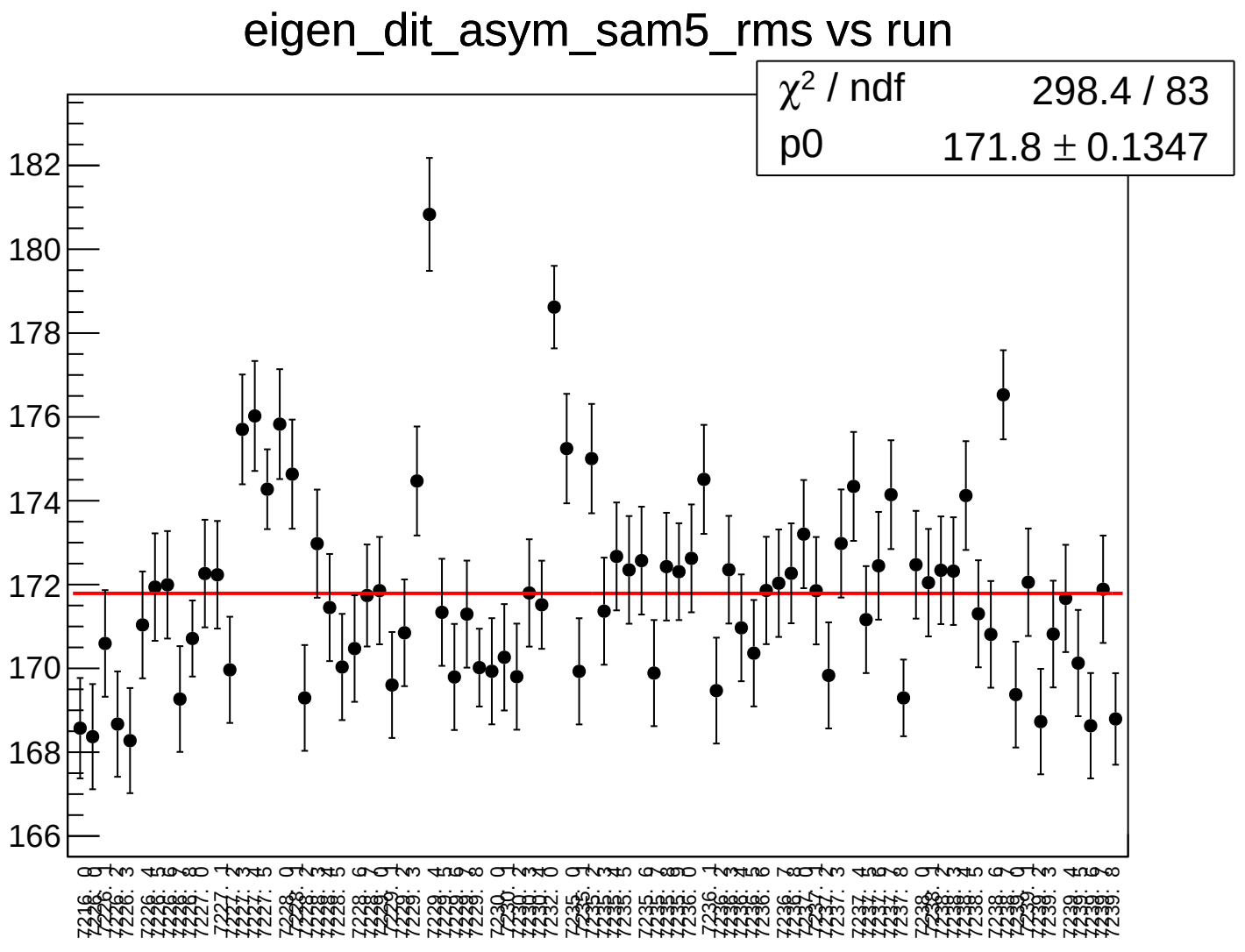

pull1D
Entries 84
Mean −0.01544
Std Dev 0.9434

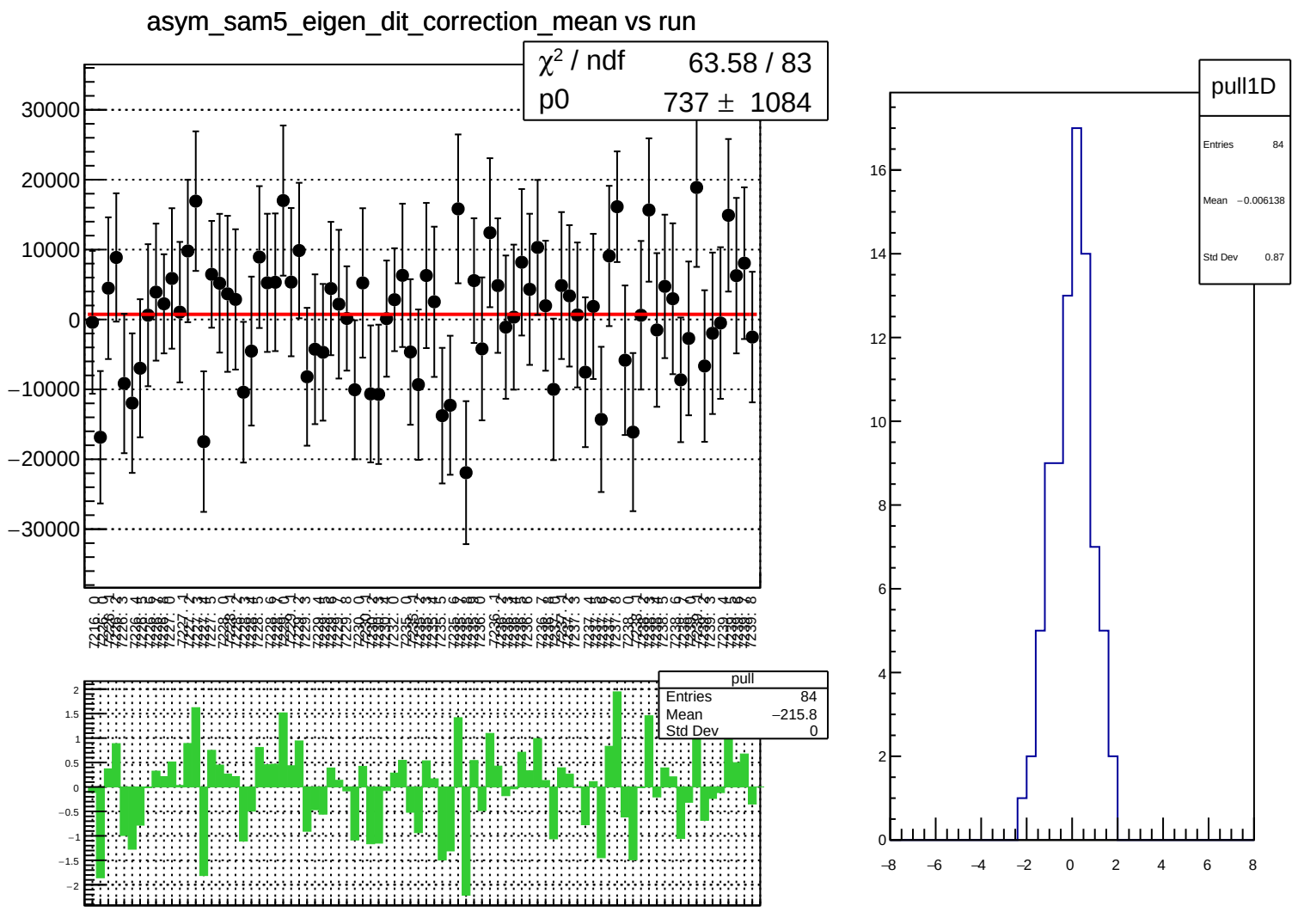

dit_asym_sam5_rms vs run
χ² / ndf 298.4 / 83
p0 171.8 ± 0.1347
182
180
178
176
174
172
170
168
166

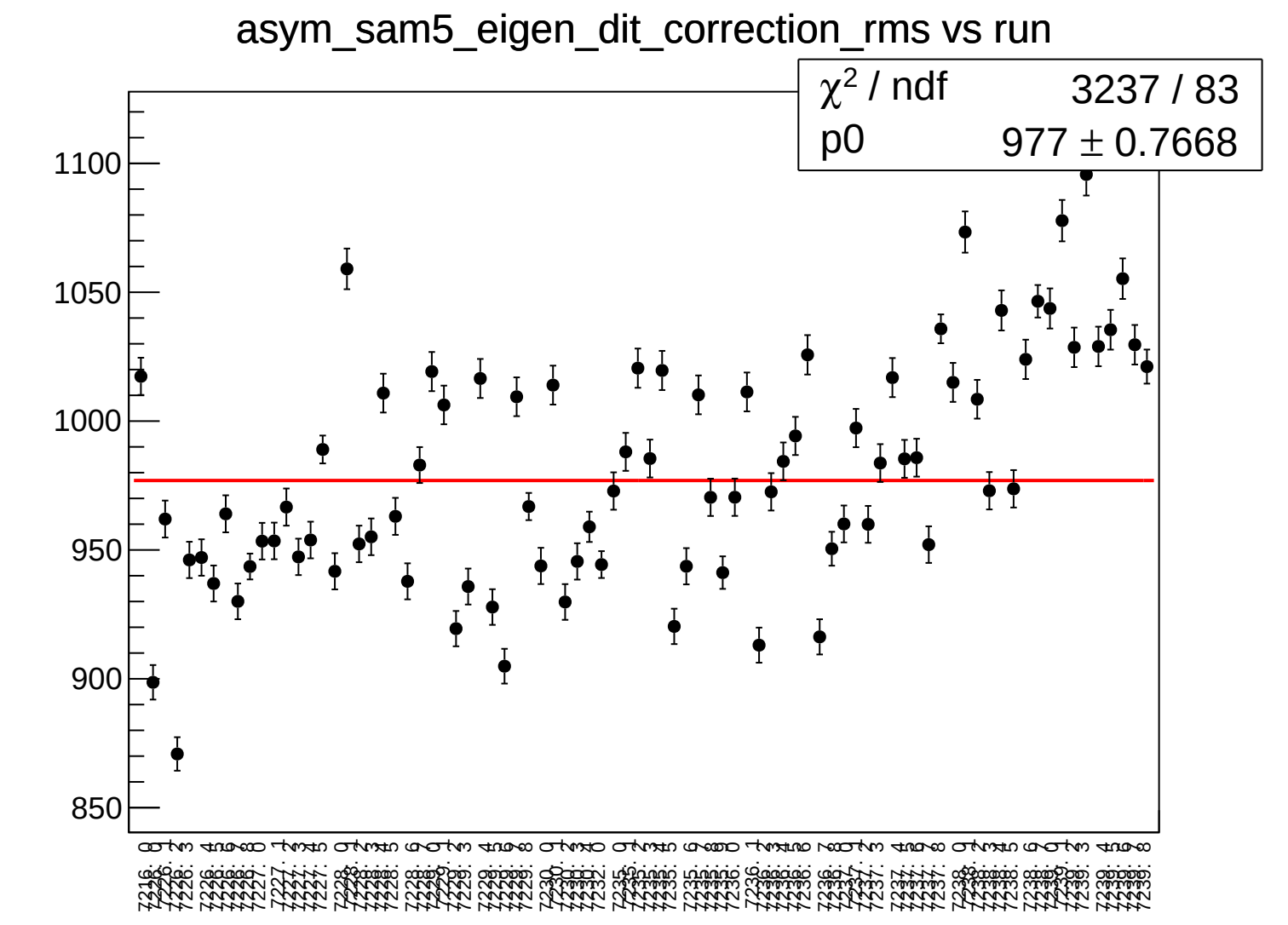

asym_sam5_dit_correction_mean vs run
χ² / ndf 63.58 / 83
p0 737 ± 1084
pull
Entries 84
Mean −215.8
Std Dev 0
pull1D
Entries 84
Mean −0.006138
Std Dev 0.87

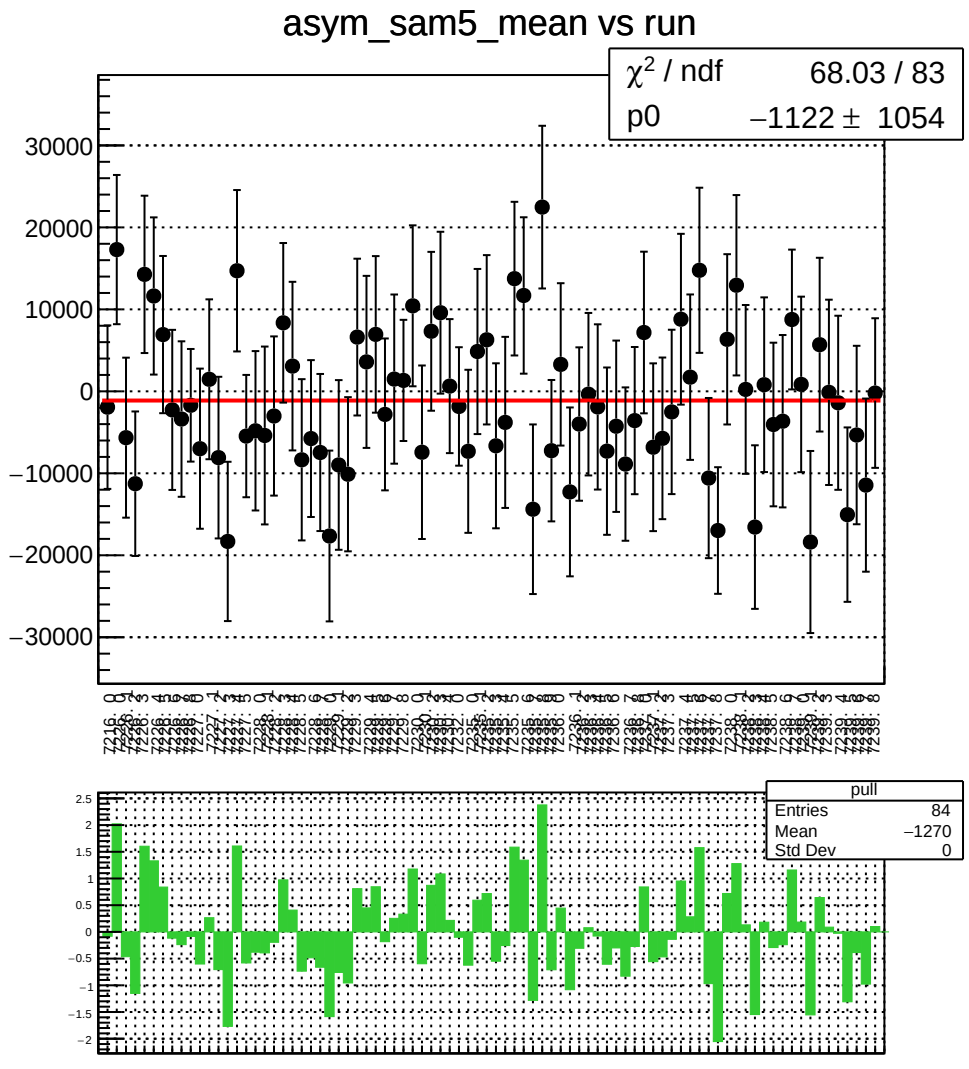

asym_sam5_dit_correction_rms vs run
χ² / ndf 3237 / 83
p0 976.9 ± 0.7668
1100
1050
1000
950
900
850

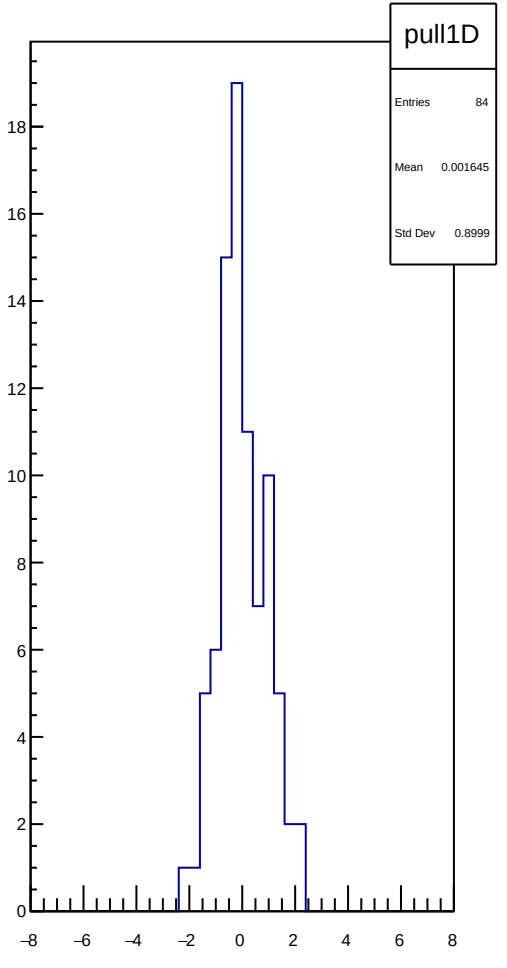

eigen_dit_asym_sam5_mean vs run
χ² / ndf 74.79 / 83
p0 −420.5 ± 190.5
pull
Entries 84
Mean 240.8
Std Dev 0
pull1D
Entries 84
Mean −0.01544
Std Dev 0.9434

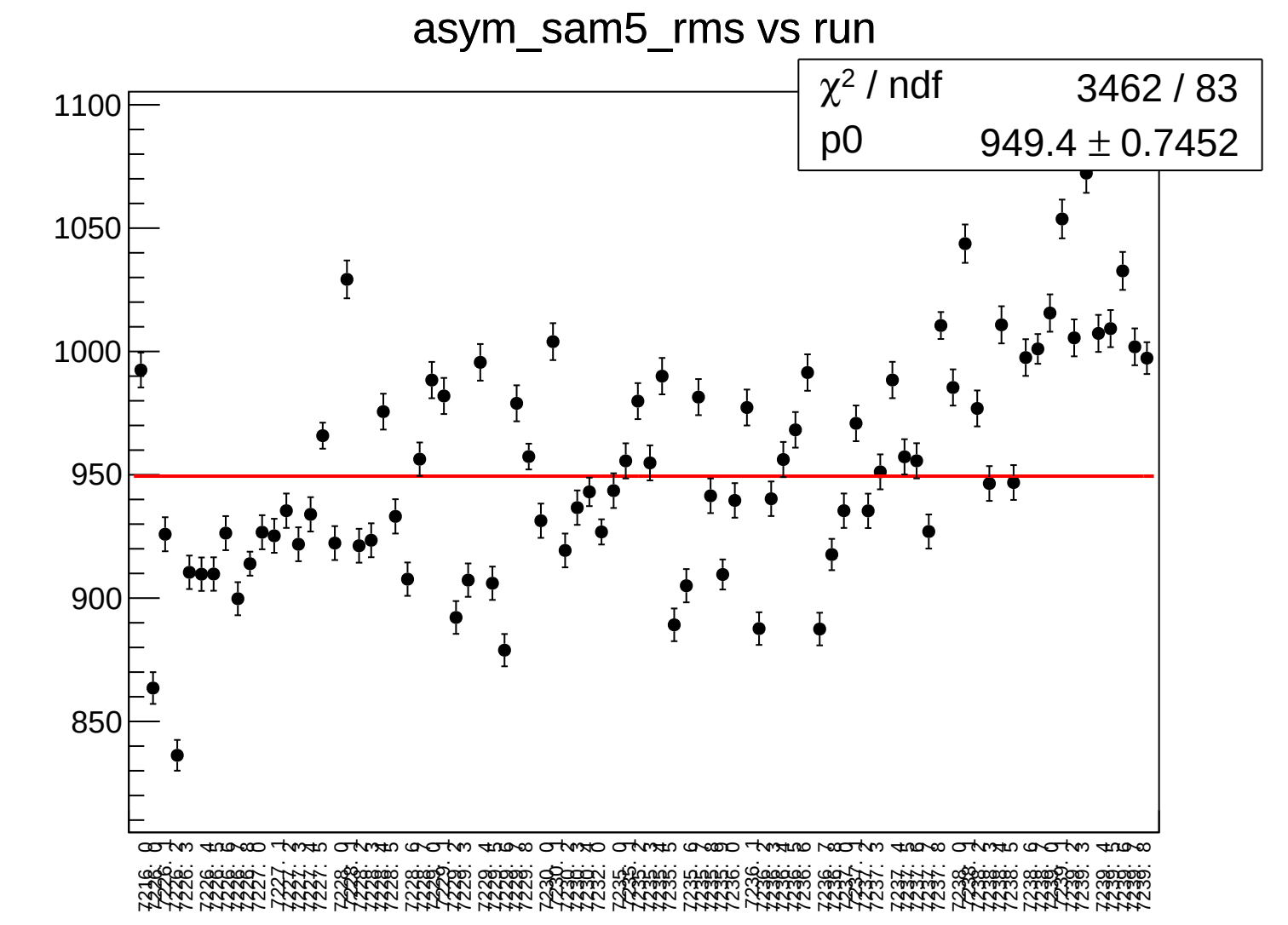

eigen_dit_asym_sam5_rms vs run
χ² / ndf 298.4 / 83
p0 171.8 ± 0.1347
182
180
178
176
174
172
170
168
166

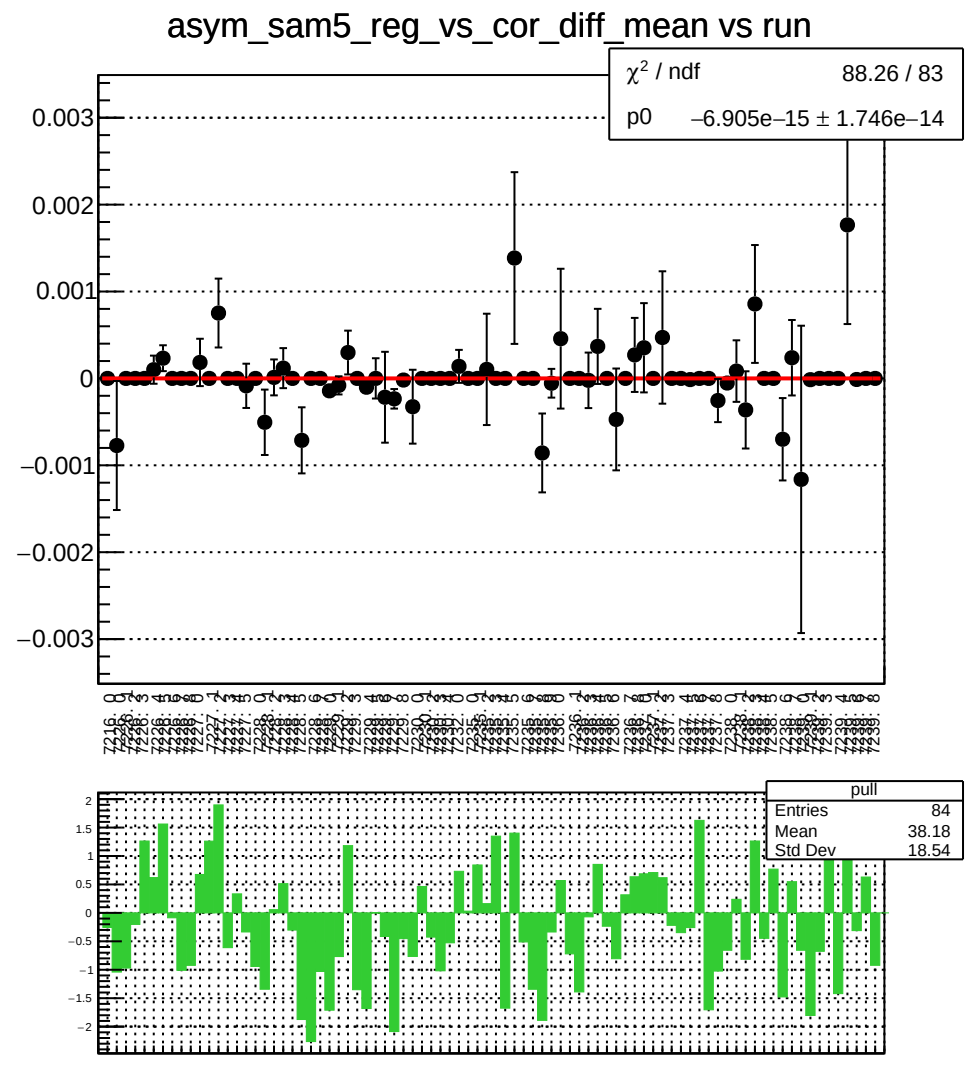

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 63.58 / 83
p0 737 ± 1084
pull
Entries 84
Mean −215.8
Std Dev 0
pull1D
Entries 84
Mean −0.006138
Std Dev 0.87

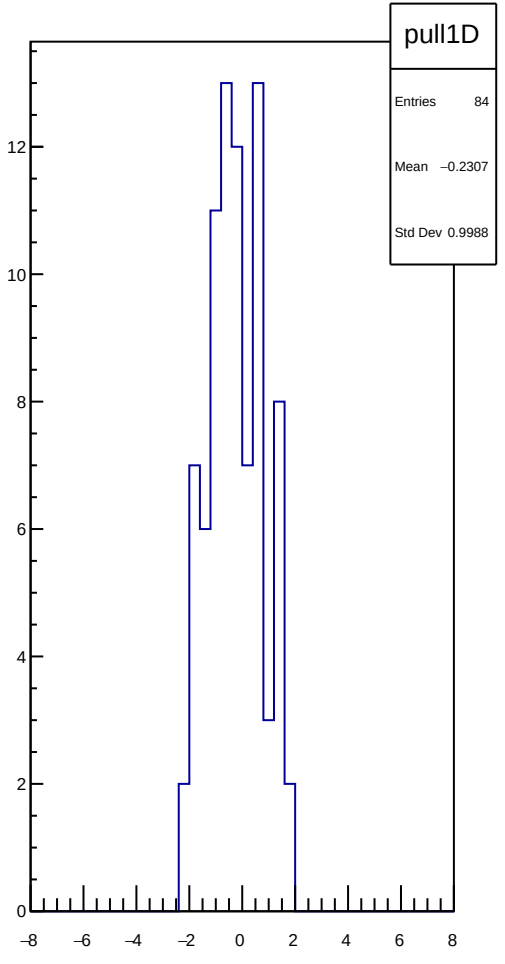

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 3237 / 83
p0 977 ± 0.7668
1100
1050
1000
950
900
850

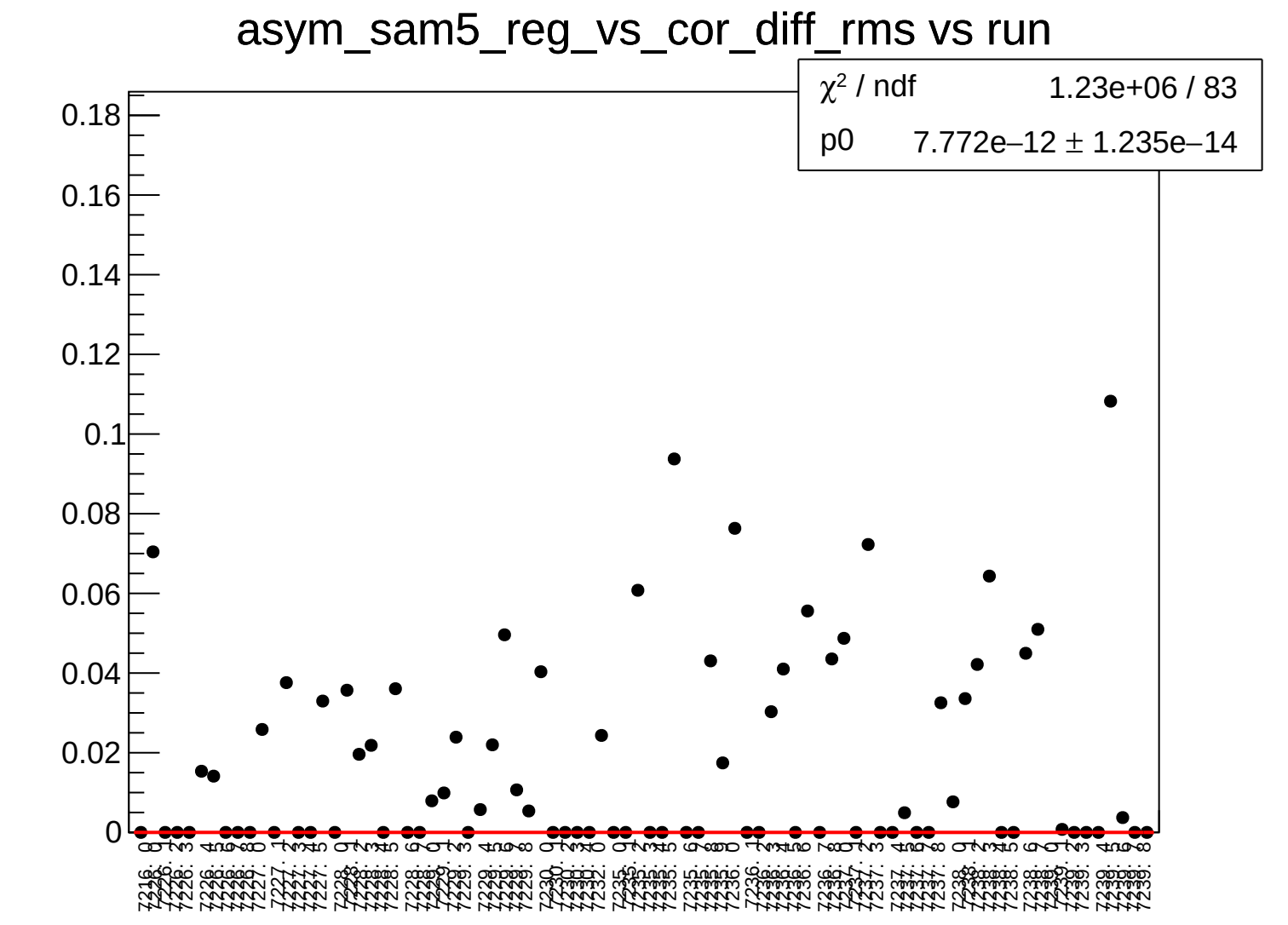

asym_sam5_mean vs run
χ² / ndf 68.03 / 83
p0 −1122 ± 1054
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −1270
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

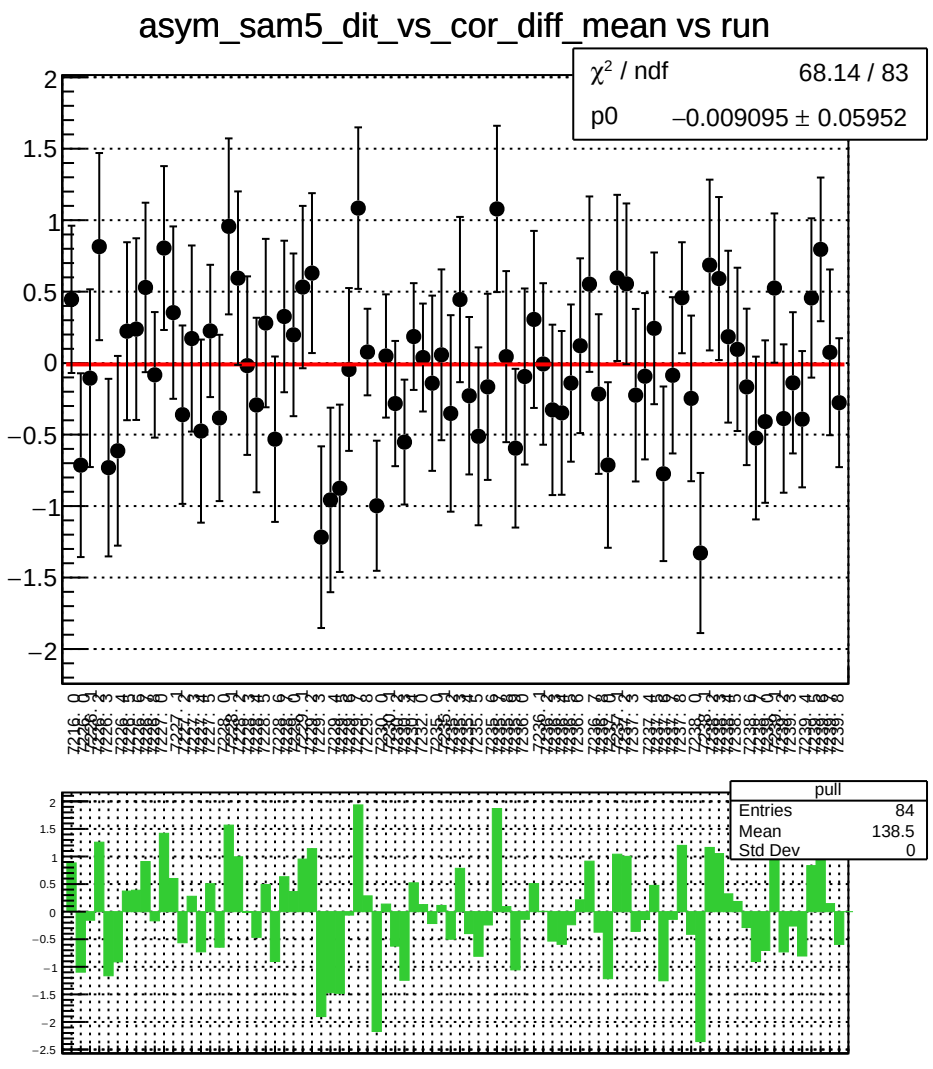

pull1D
Entries 84
Mean 0.001645
Std Dev 0.8999
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

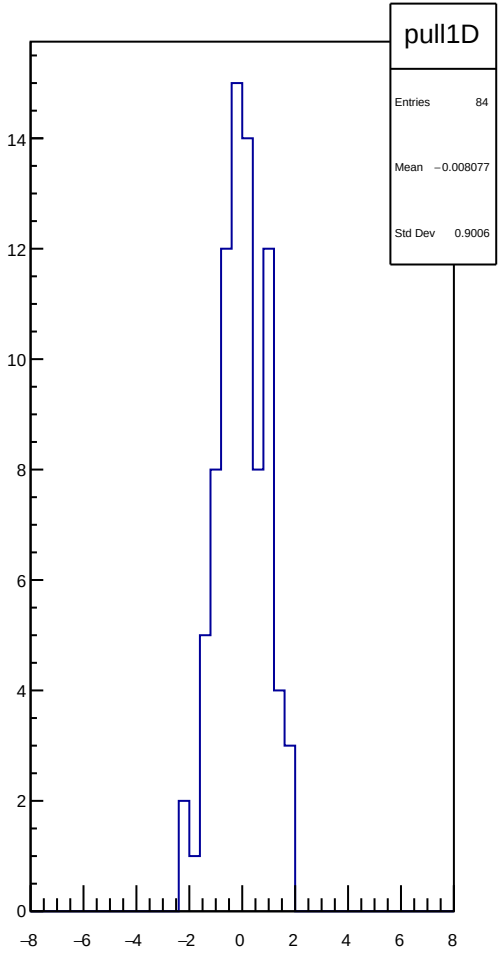

asym_sam5_rms vs run
χ² / ndf 3462 / 83
p0 949.4 ± 0.7452
1100
1050
1000
950
900
850

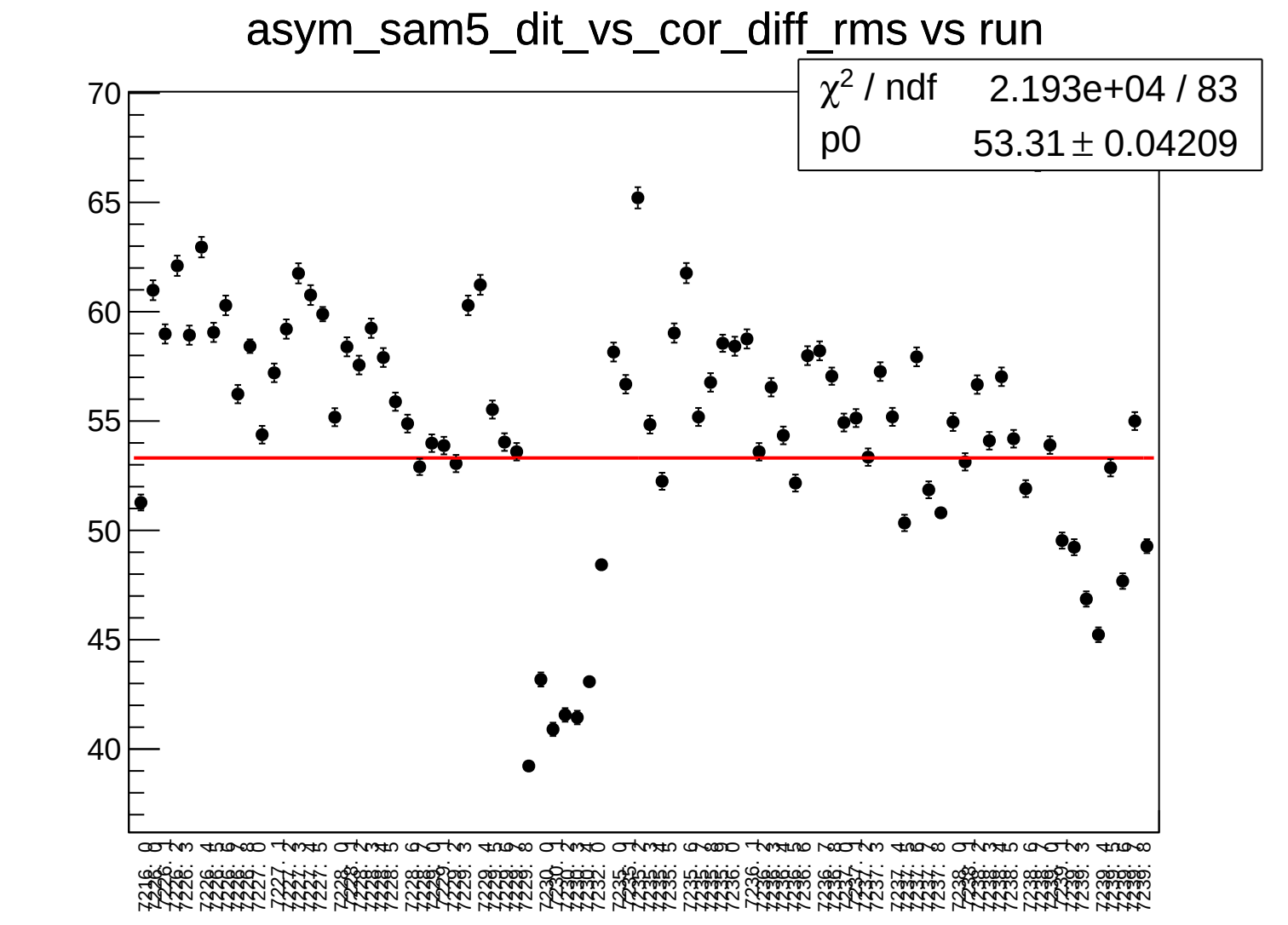

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 88.26 / 83
p0 −6.905e−15 ± 1.746e−14
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 84
Mean 38.18
Std Dev 18.54
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

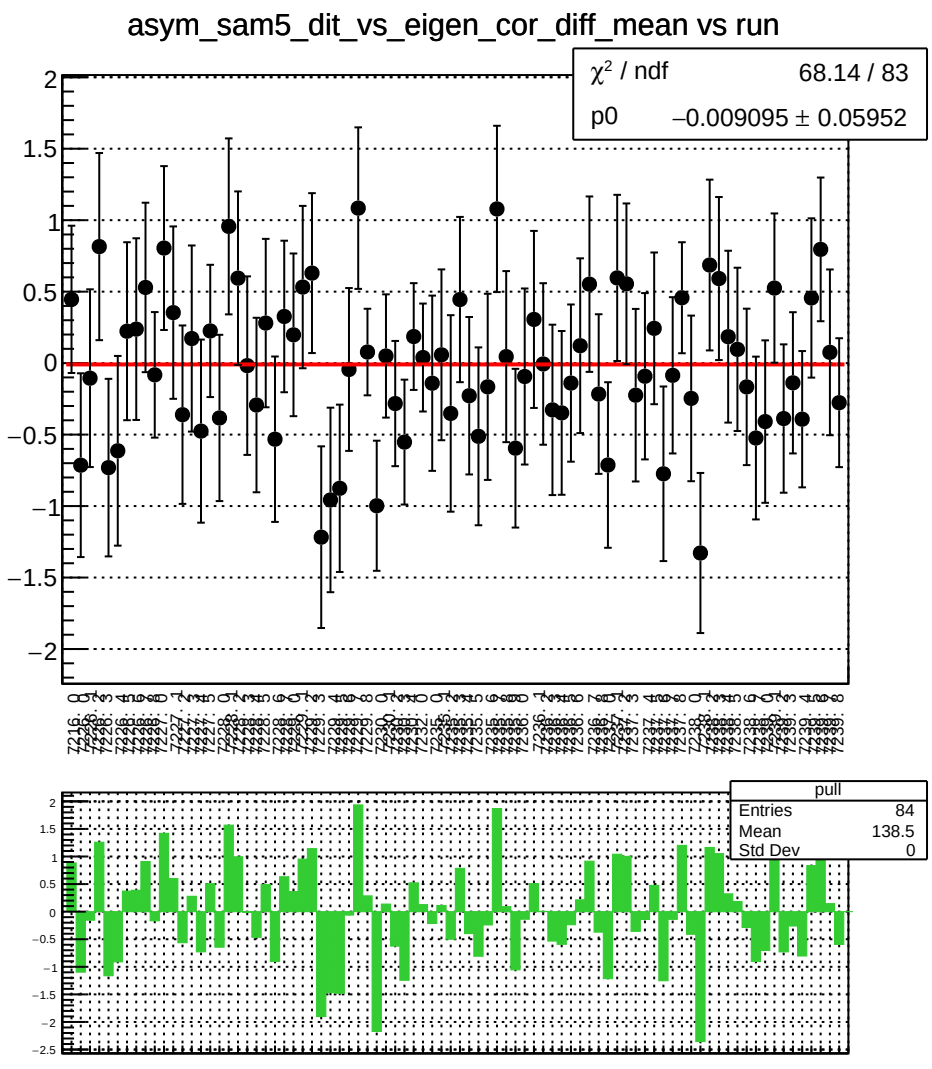

pull1D
Entries 84
Mean −0.2307
Std Dev 0.9988
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

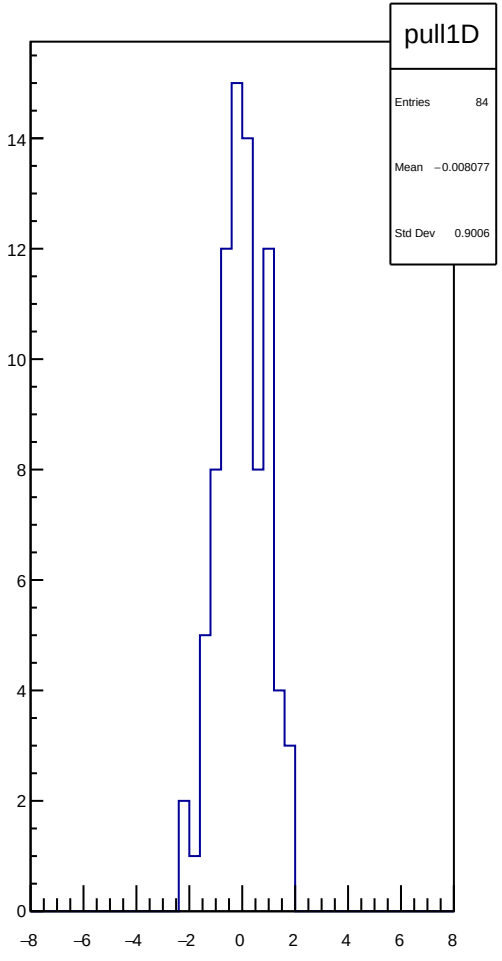

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 1.23e+06 / 83
p0 7.772e−12 ± 1.235e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

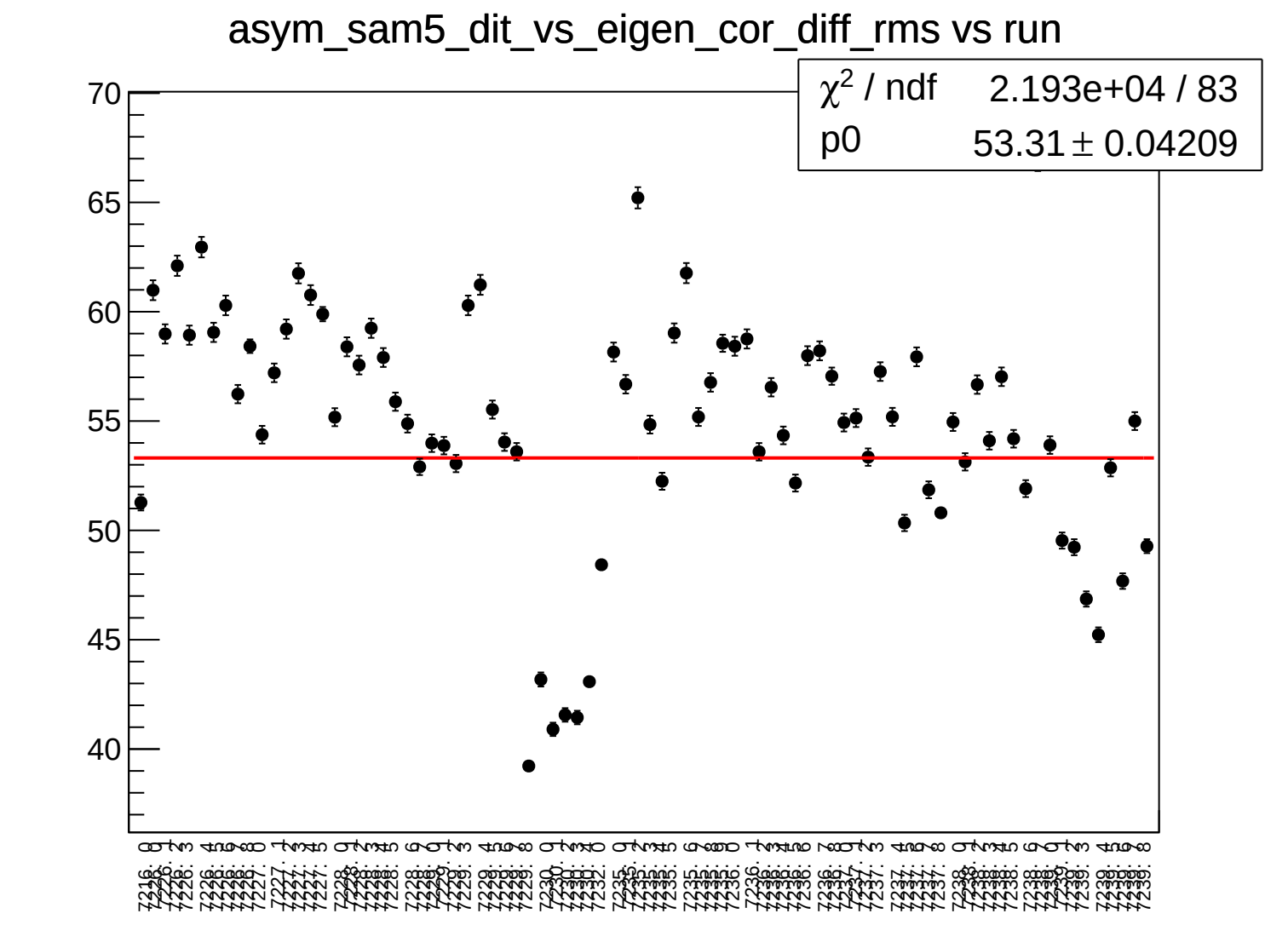

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 68.14 / 83
p0 −0.009095 ± 0.05952
pull
Entries 84
Mean 138.5
Std Dev 0

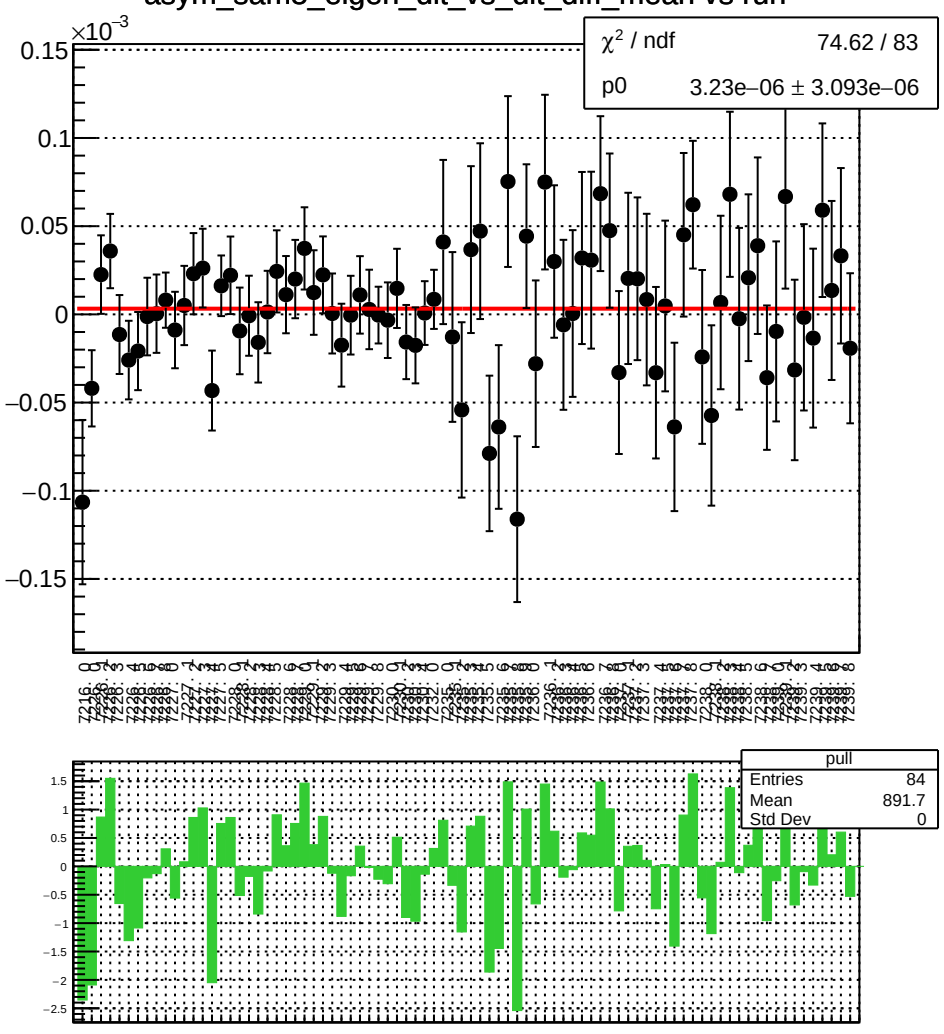

pull1D
Entries 84
Mean −0.008077
Std Dev 0.9006

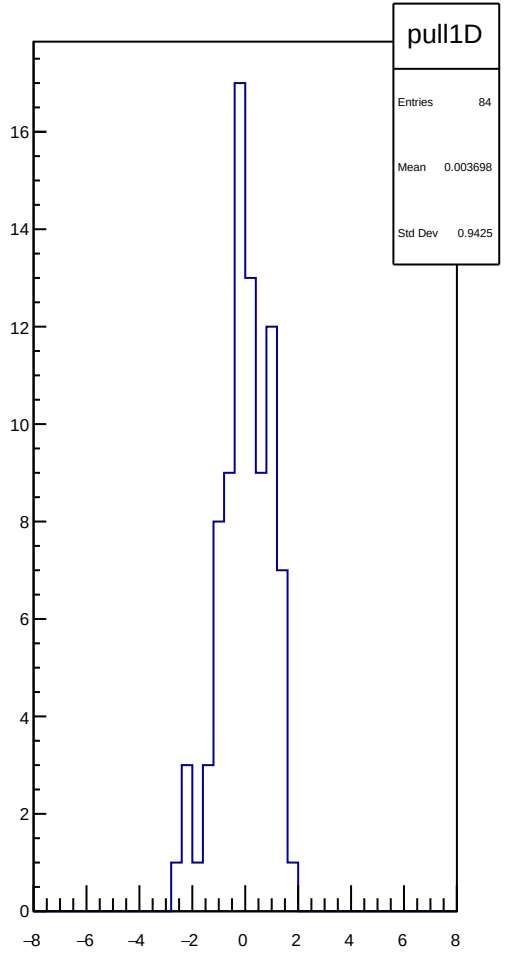

asym_sam5_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.193e+04 / 83
p0 53.31 ± 0.04209
70
65
60
55
50
45
40

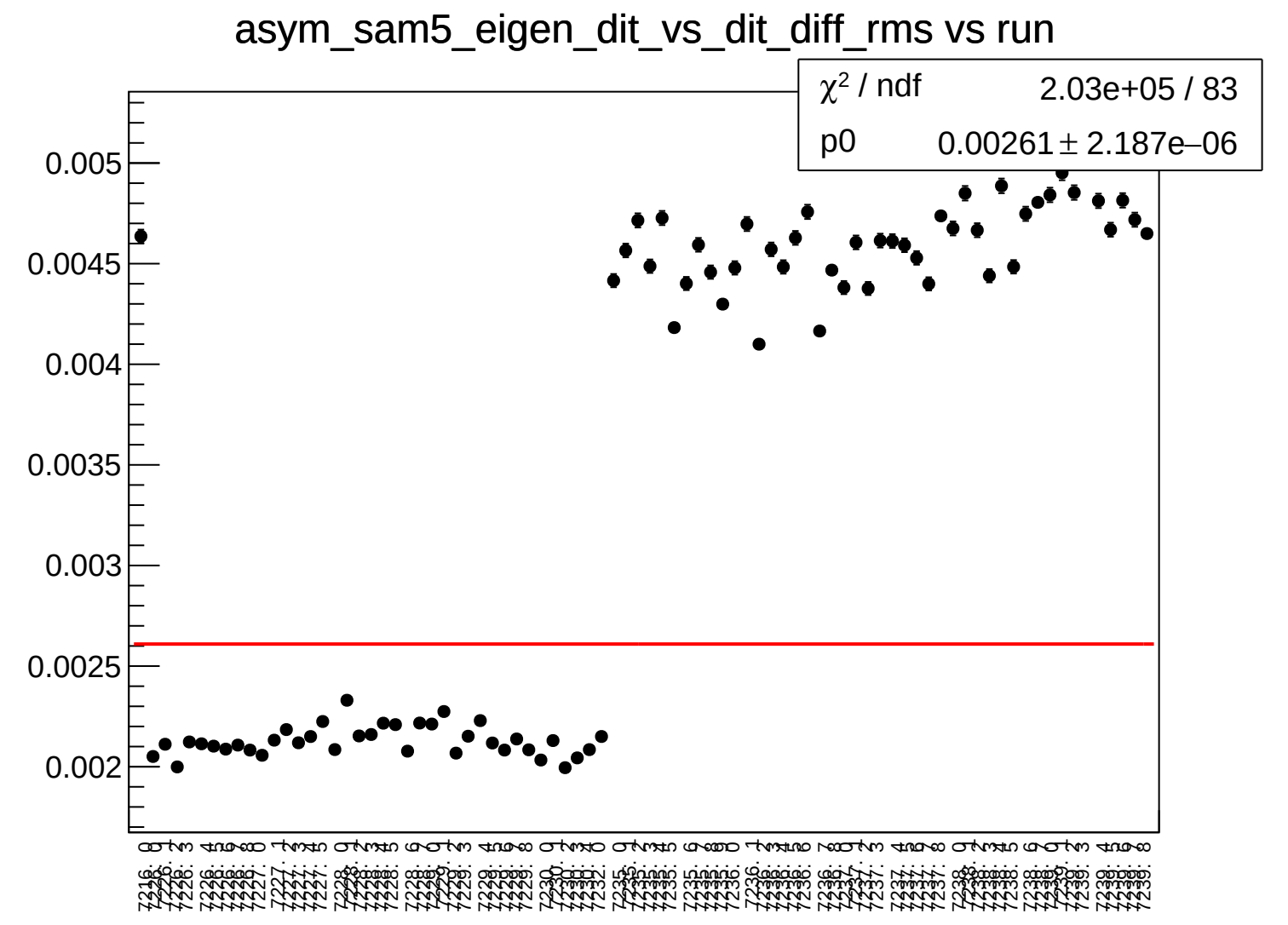

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.14 / 83
p0 −0.009095 ± 0.05952
pull
Entries 84
Mean 138.5
Std Dev 0

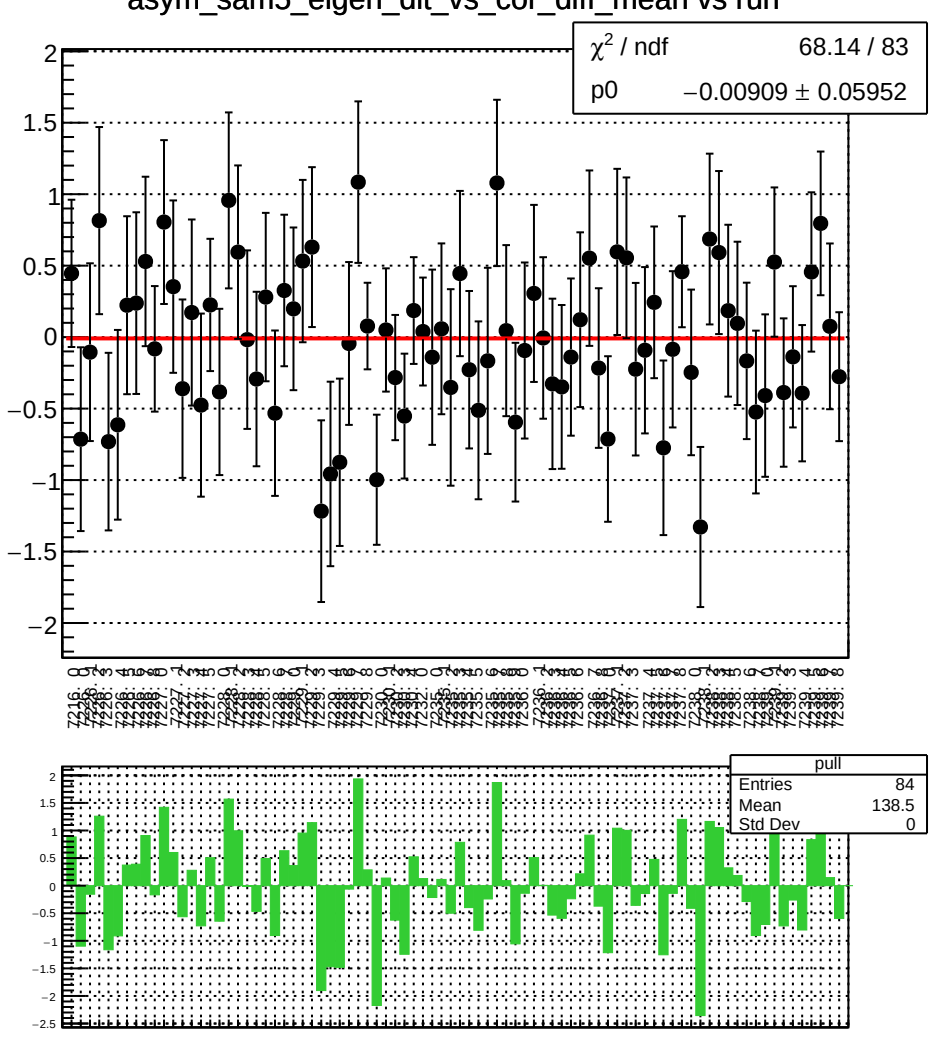

pull1D
Entries 84
Mean −0.008077
Std Dev 0.9006

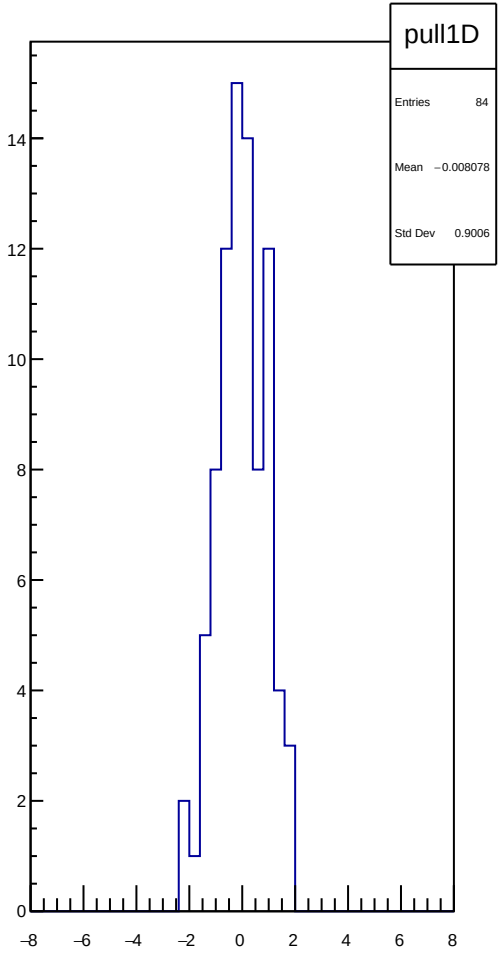

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.193e+04 / 83
p0 53.31 ± 0.04209
70
65
60
55
50
45
40

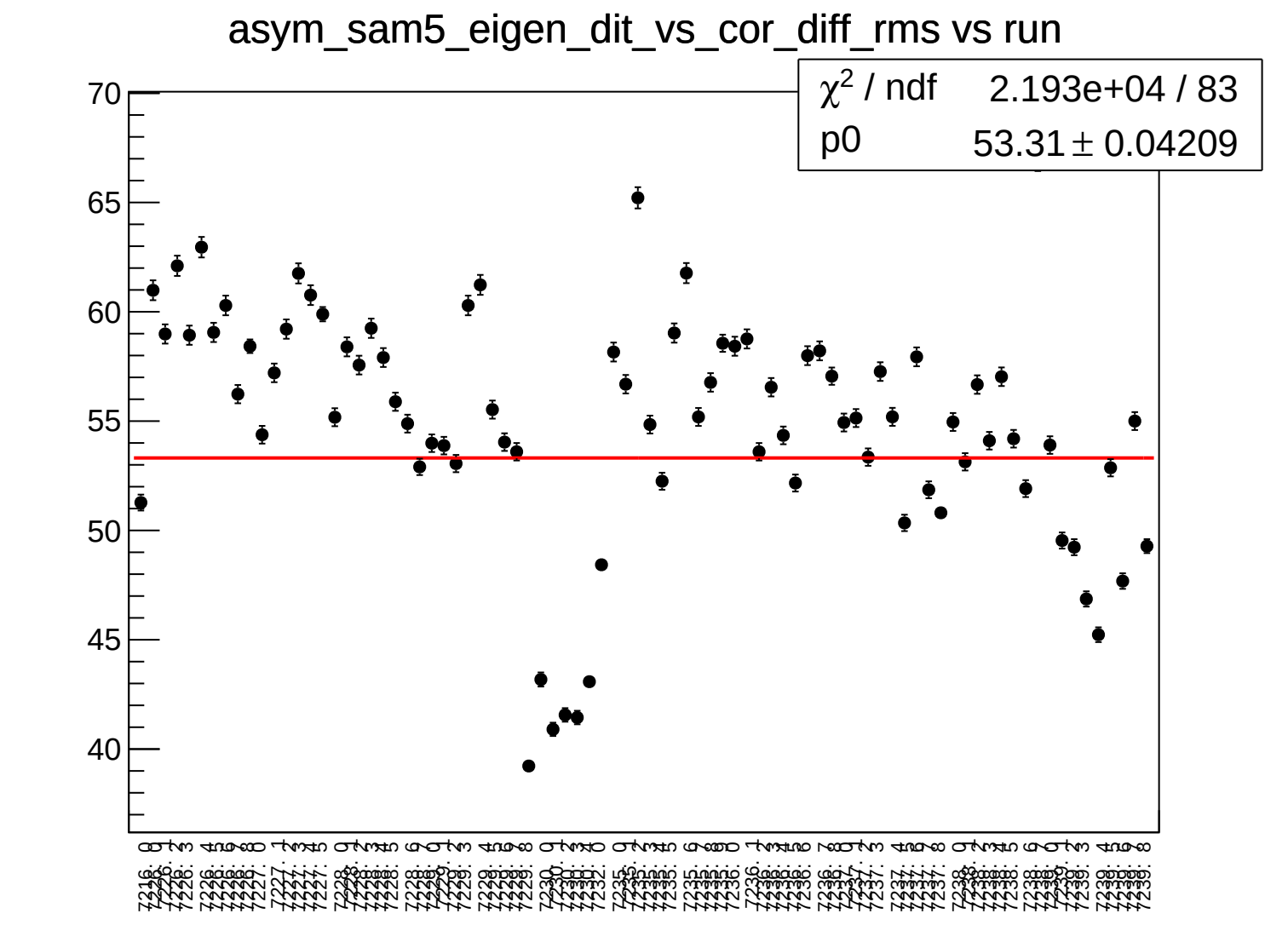

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.62 / 83
p0 3.23e−06 ± 3.093e−06
pull
Entries 84
Mean 891.7
Std Dev 0

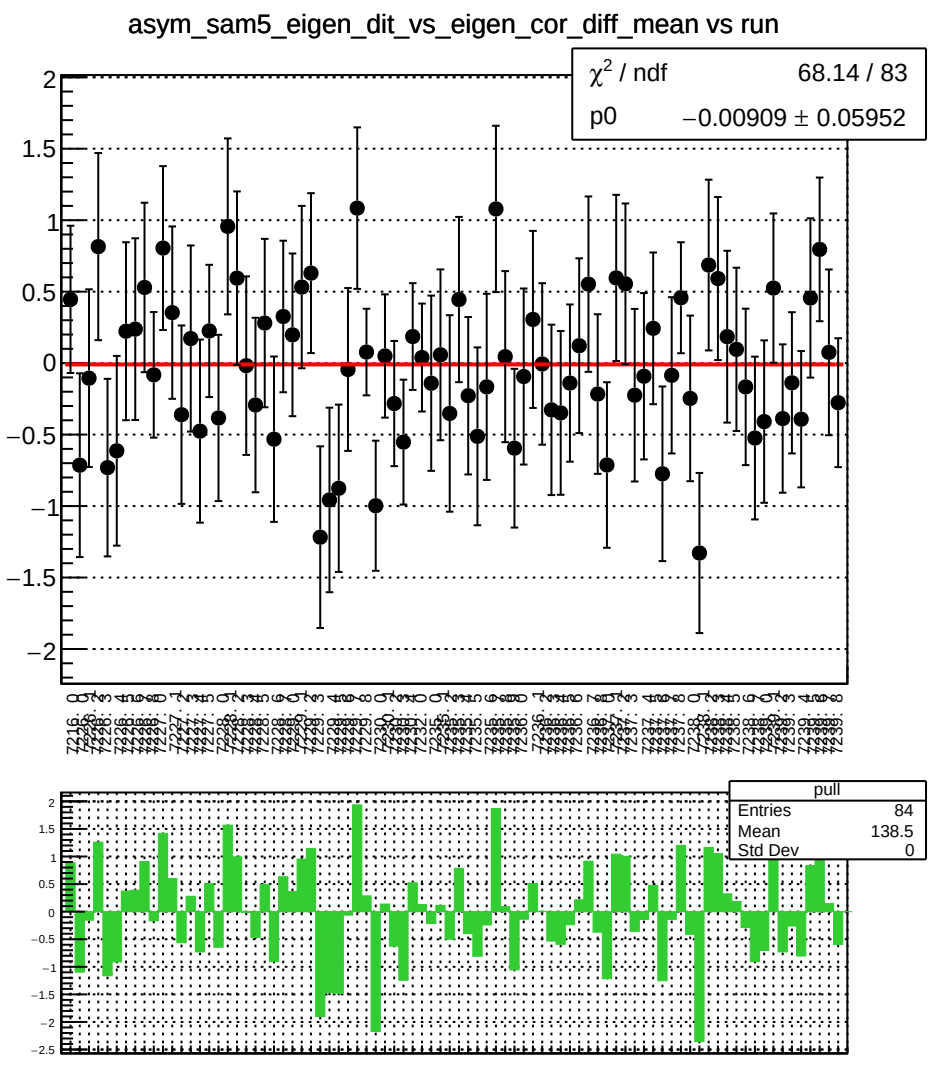

pull1D
Entries 84
Mean 0.003698
Std Dev 0.9425

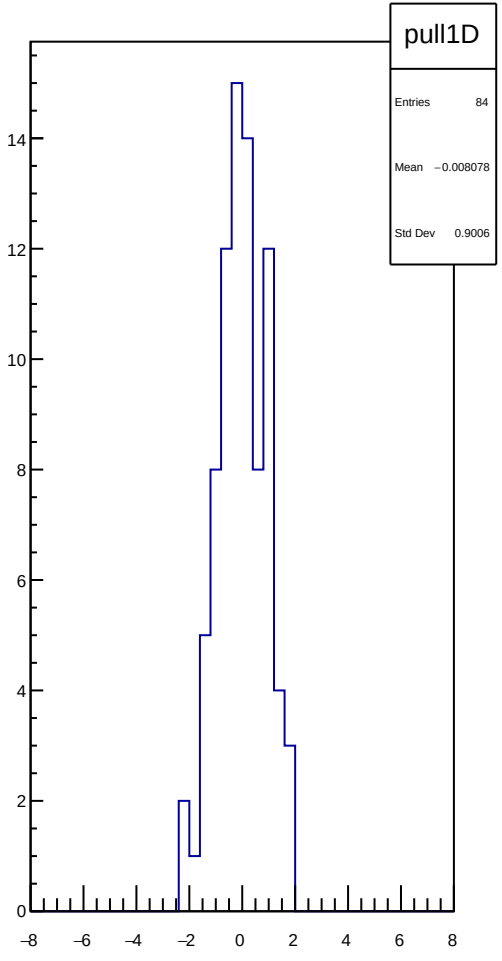

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.03e+05 / 83
p0 0.00261 ± 2.187e–06
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

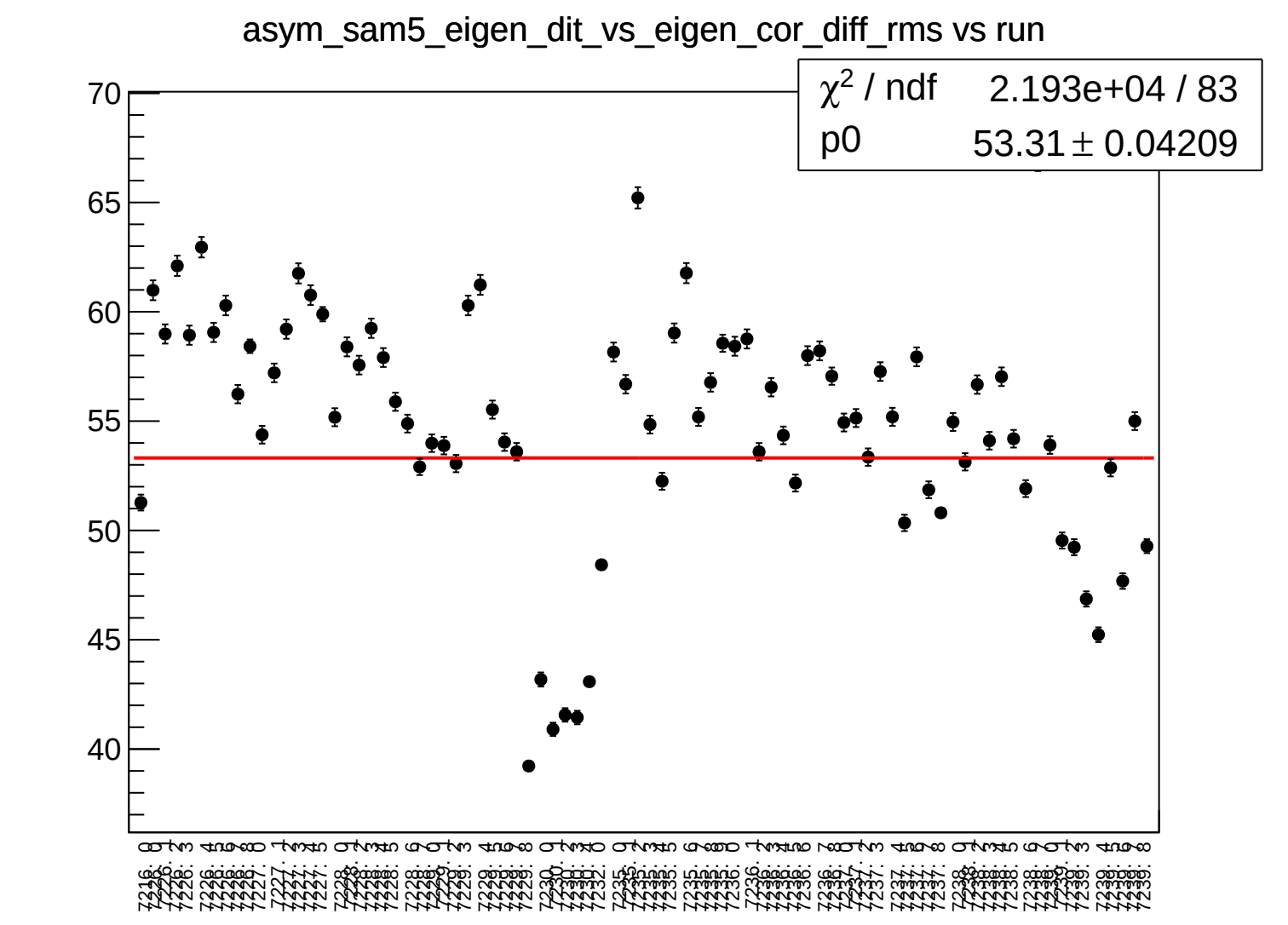

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.14 / 83
p0 −0.00909 ± 0.05952
pull
Entries 84
Mean 138.5
Std Dev 0

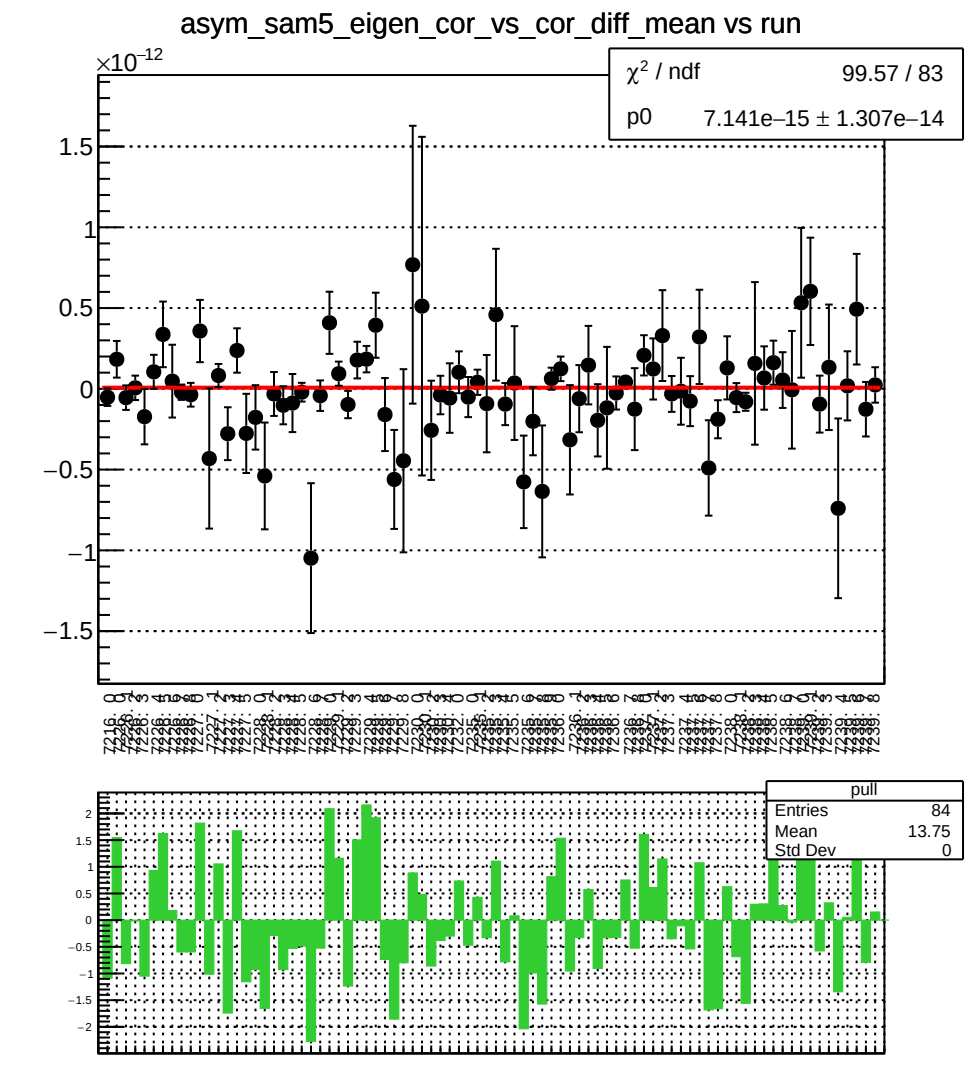

pull1D
Entries 84
Mean −0.008078
Std Dev 0.9006

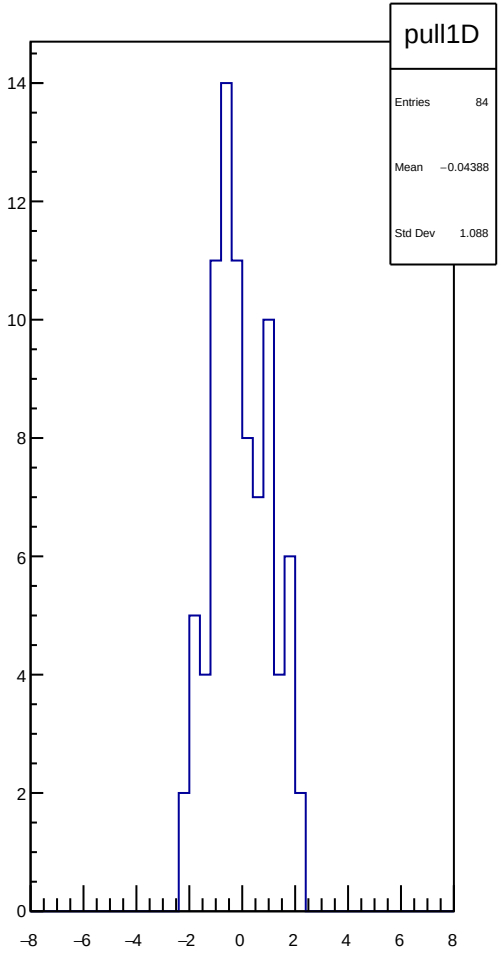

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.193e+04 / 83
p0 53.31 ± 0.04209
70
65
60
55
50
45
40

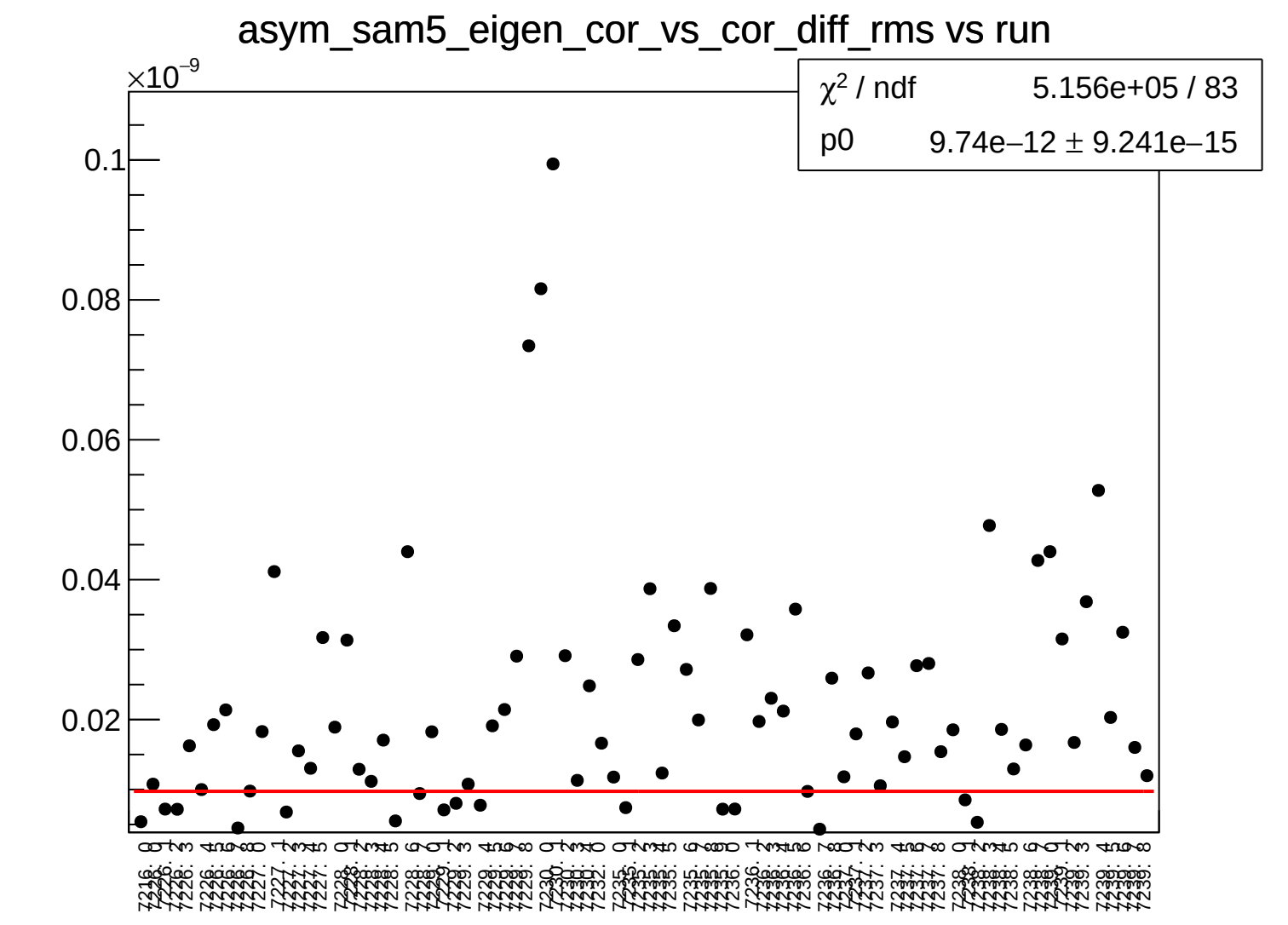

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.14 / 83
p0 −0.00909 ± 0.05952
pull
Entries 84
Mean 138.5
Std Dev 0

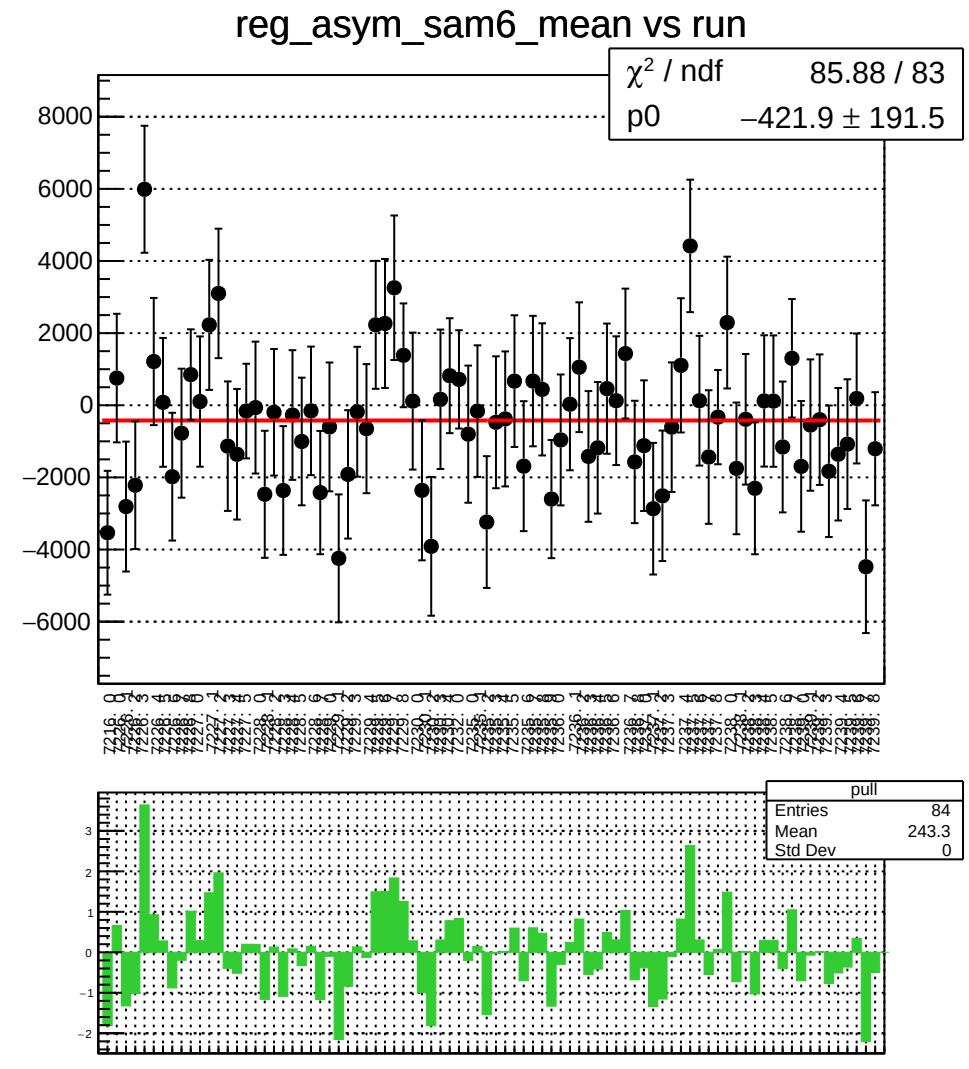

pull1D
Entries 84
Mean −0.008078
Std Dev 0.9006

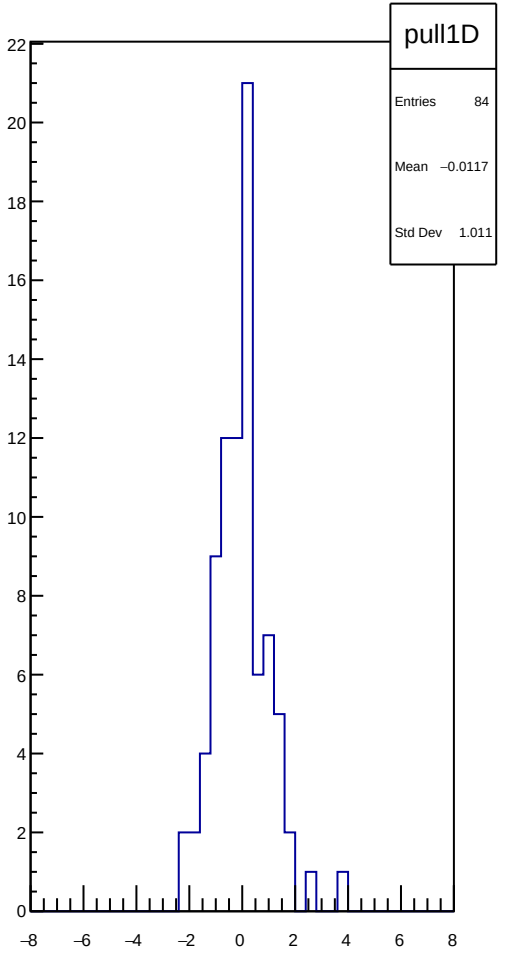

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.193e+04 / 83
p0 53.31 ± 0.04209
70
65
60
55
50
45
40

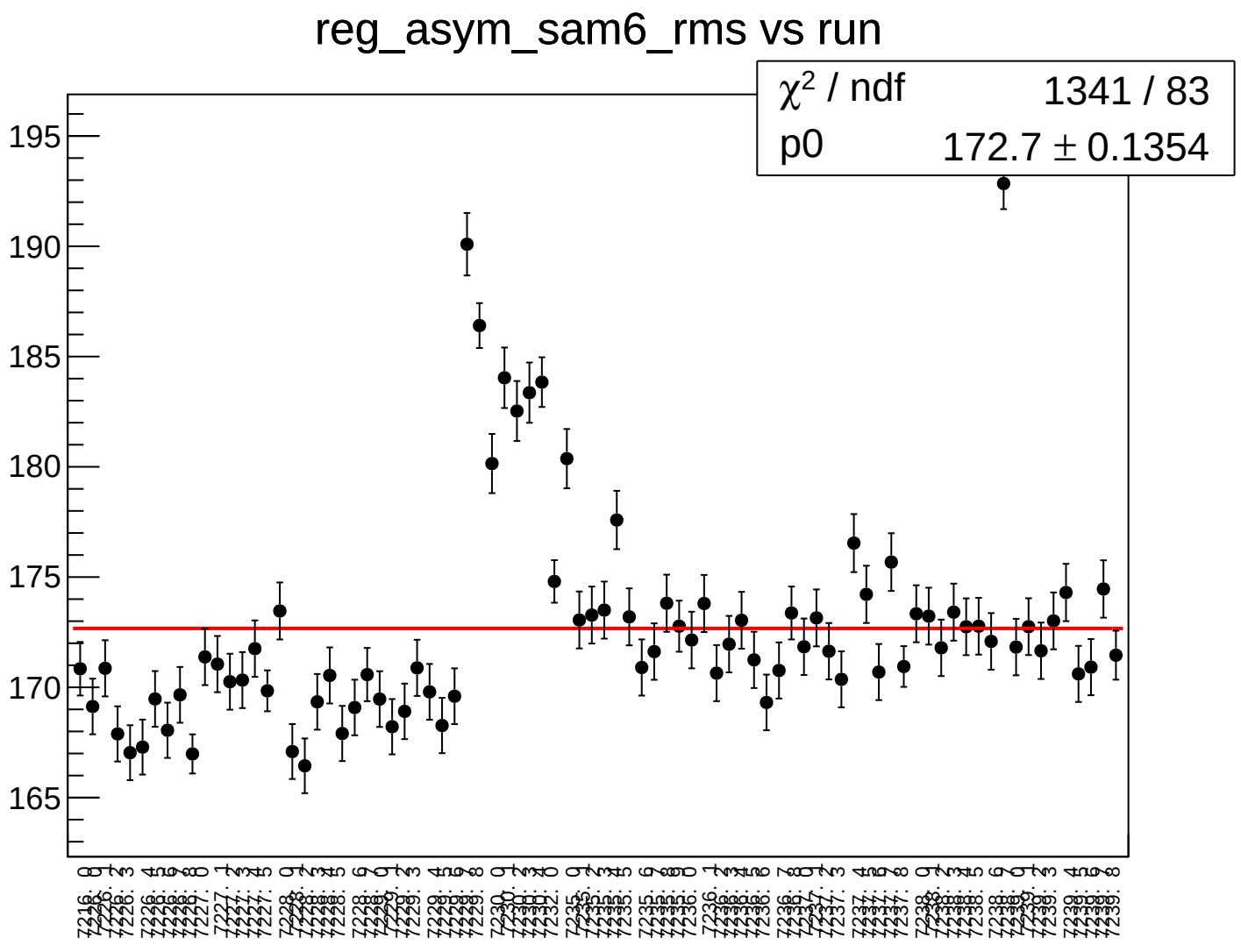

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 99.57 / 83
p0 7.141e−15 ± 1.307e−14
pull
Entries 84
Mean 13.75
Std Dev 0

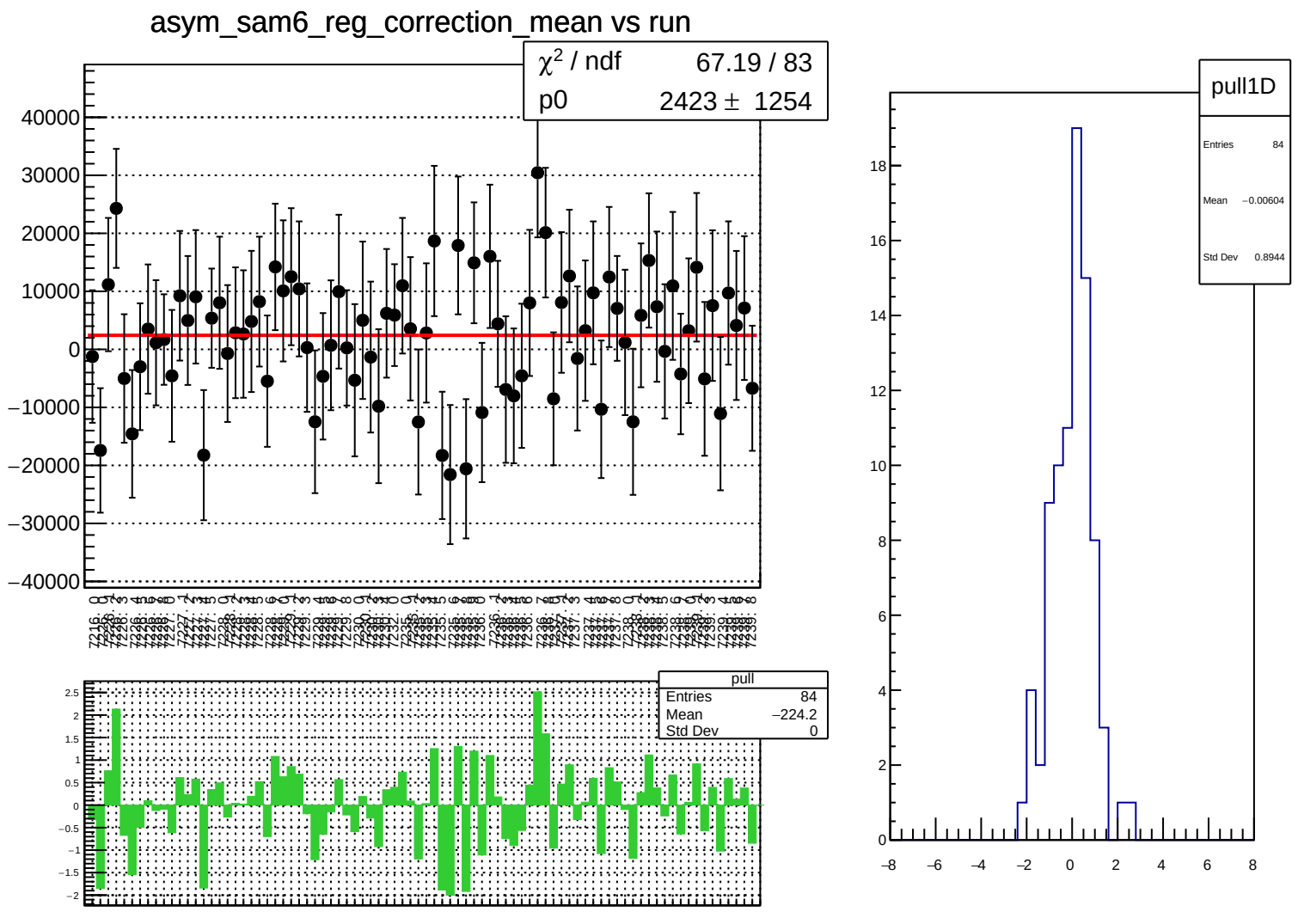

pull1D
Entries 84
Mean −0.04388
Std Dev 1.088

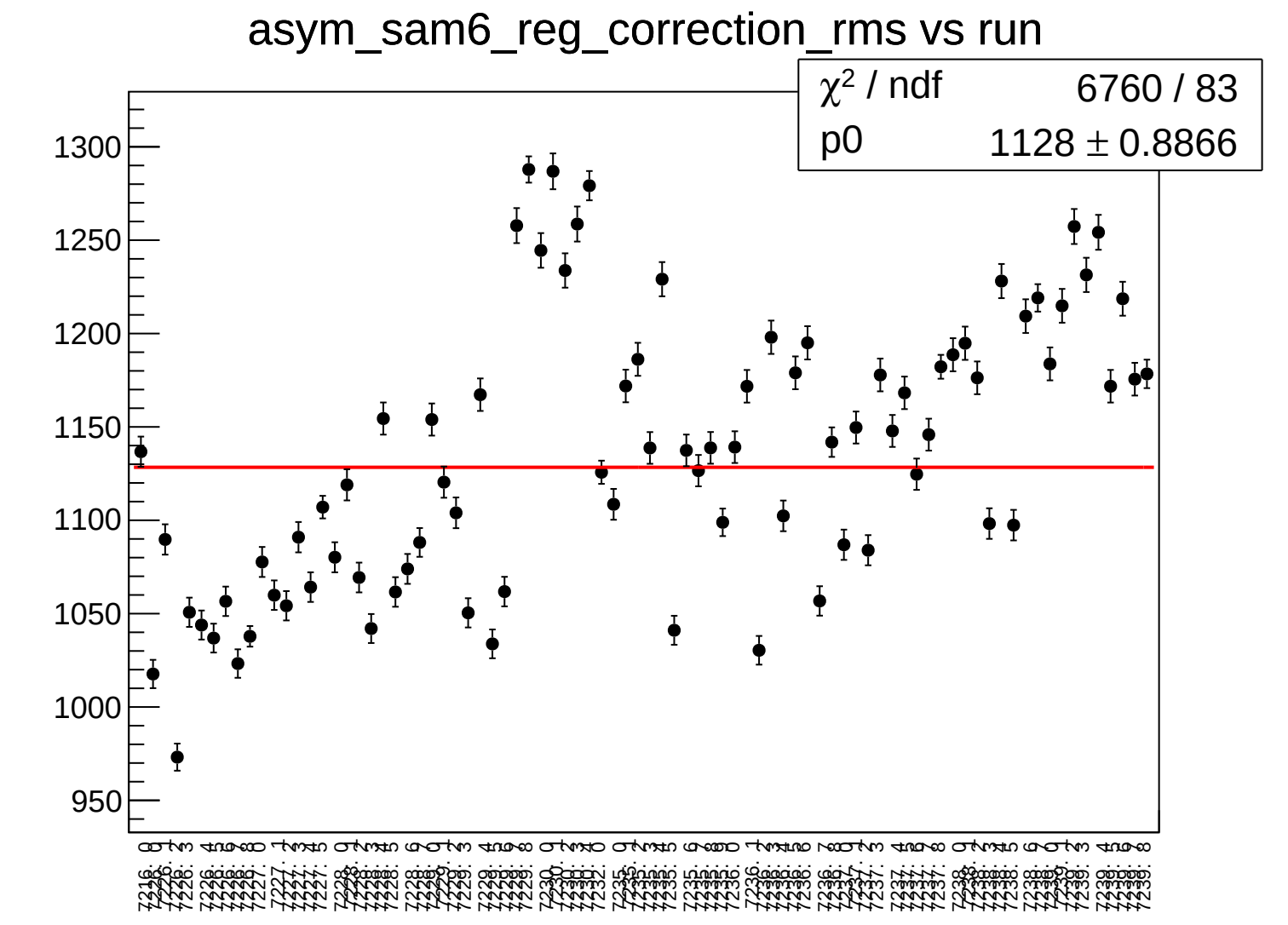

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.156e+05 / 83
p0 9.74e−12 ± 9.241e−15
0.1
0.08
0.06
0.04
0.02

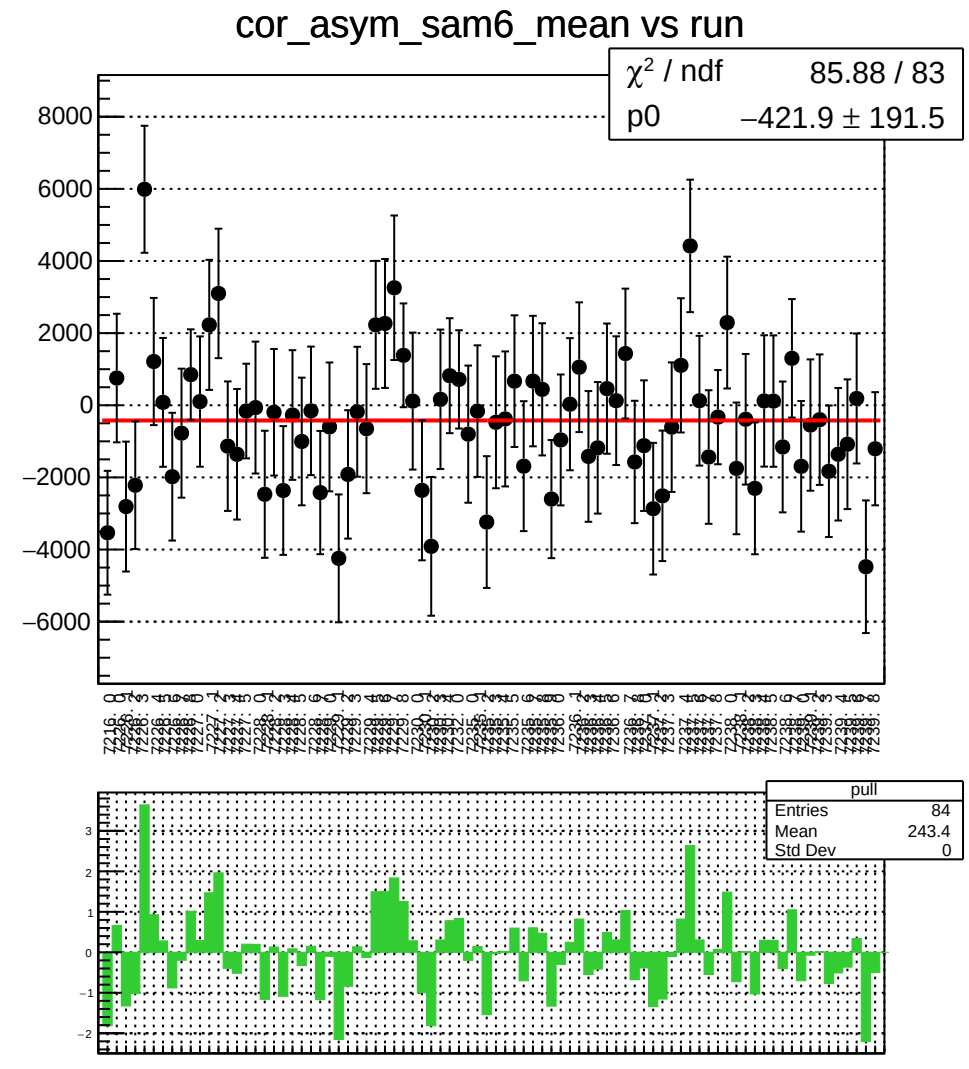

reg_asym_sam6_mean vs run
χ² / ndf 85.88 / 83
p0 −421.9 ± 191.5
pull
Entries 84
Mean 243.3
Std Dev 0

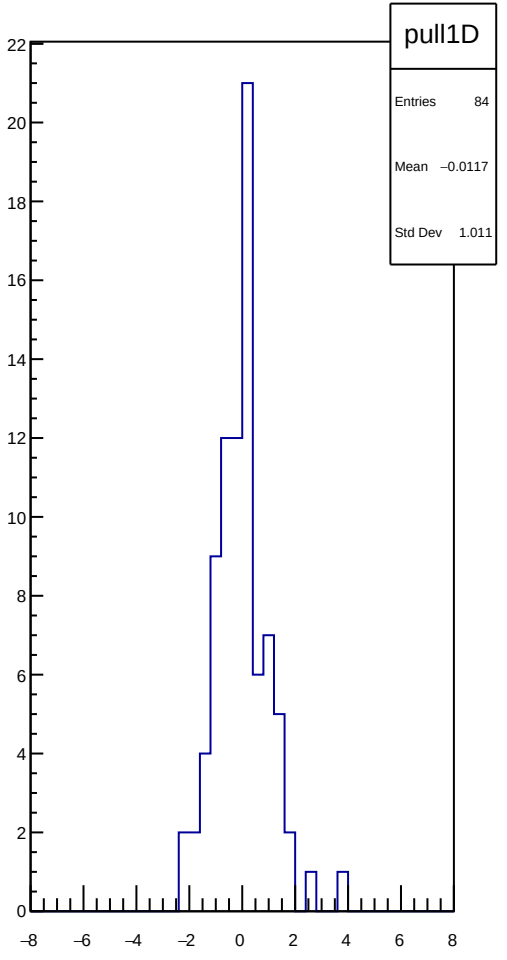

pull1D
Entries 84
Mean −0.0117
Std Dev 1.011

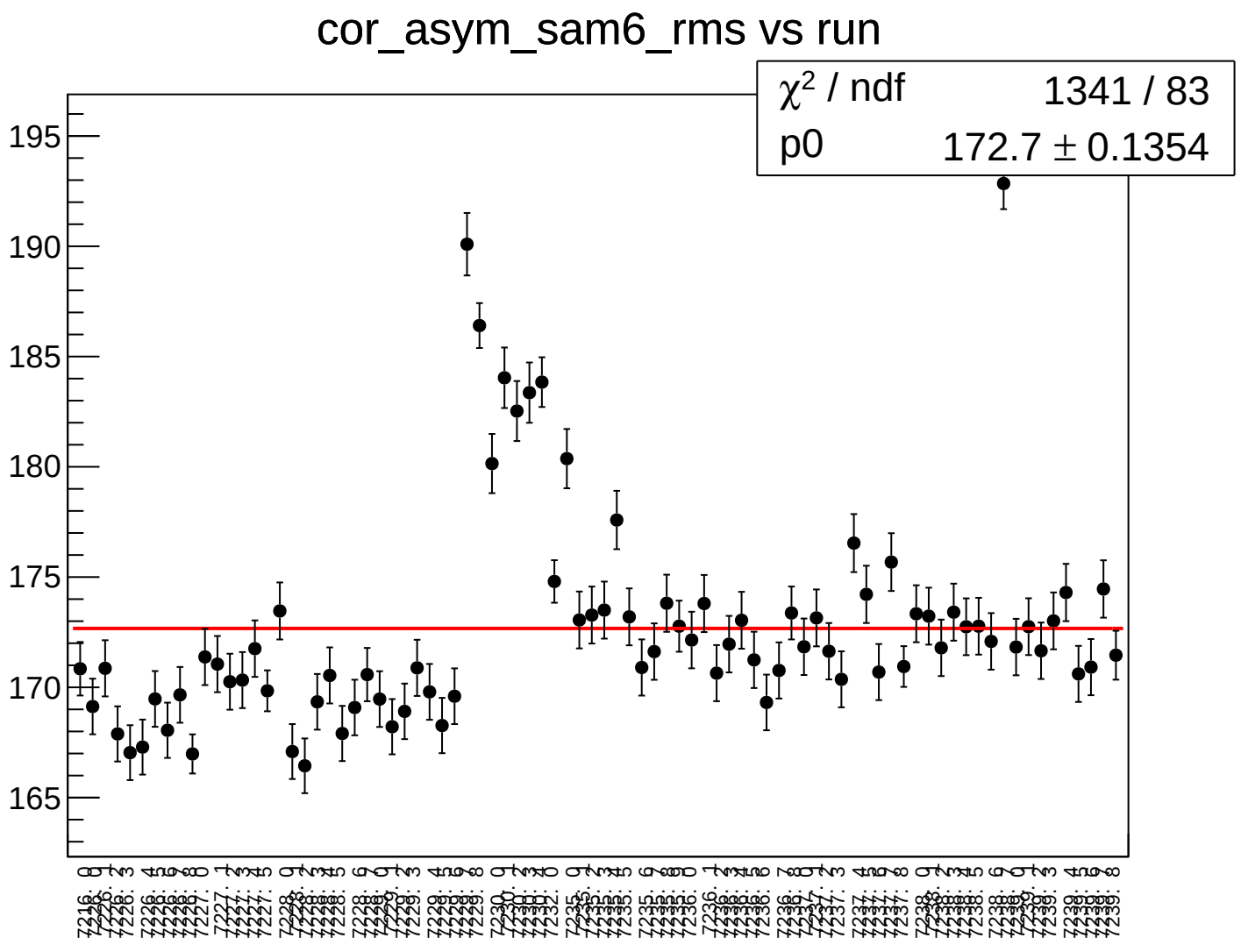

reg_asym_sam6_rms vs run
χ² / ndf 1341 / 83
p0 172.7 ± 0.1354
195
190
185
180
175
170
165

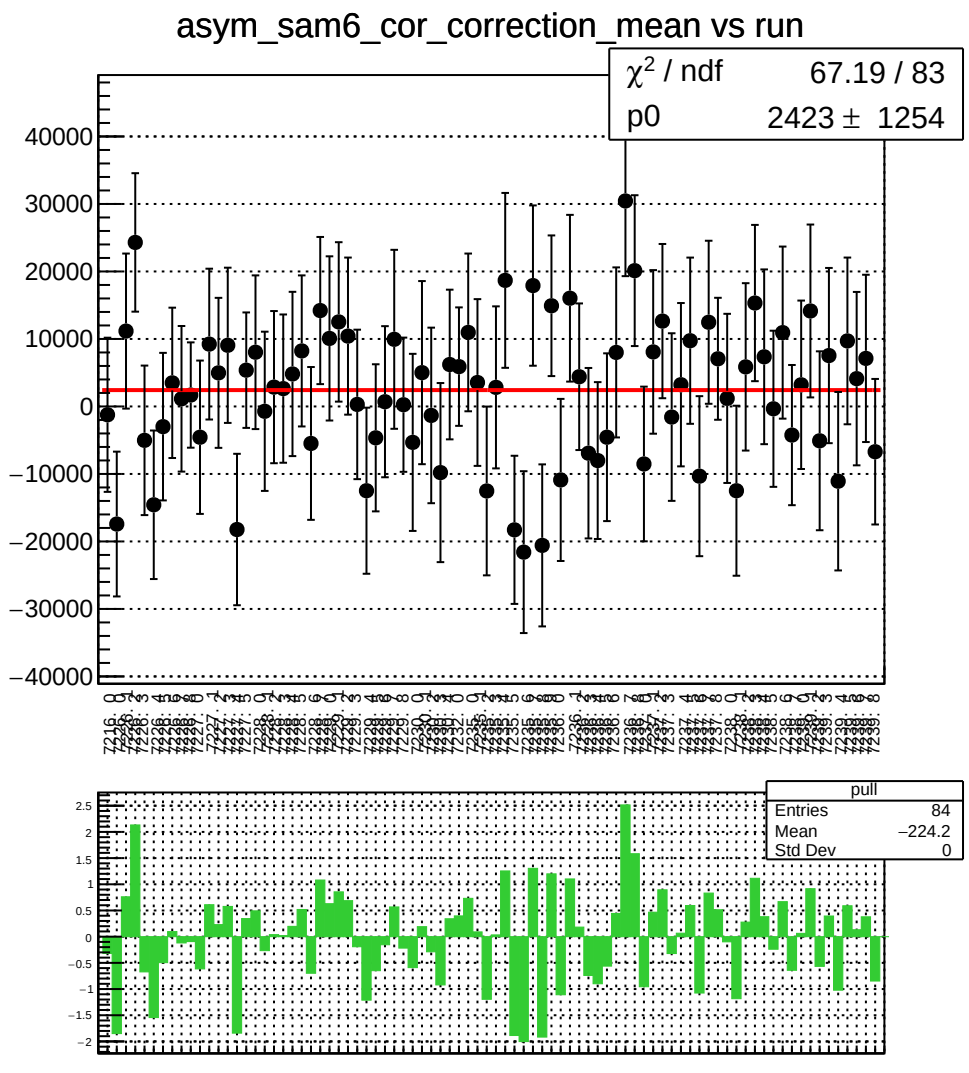

asym_sam6_reg_correction_mean vs run
χ² / ndf 67.19 / 83
p0 2423 ± 1254
pull
Entries 84
Mean −224.2
Std Dev 0
pull1D
Entries 84
Mean −0.00604
Std Dev 0.8944

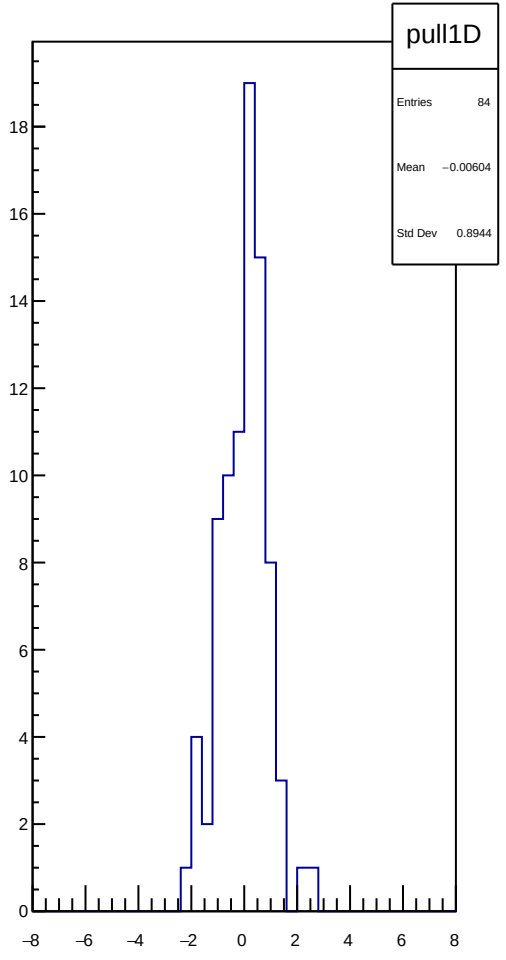

asym_sam6_reg_correction_rms vs run
χ² / ndf 6760 / 83
p0 1128 ± 0.8866
1300
1250
1200
1150
1100
1050
1000
950

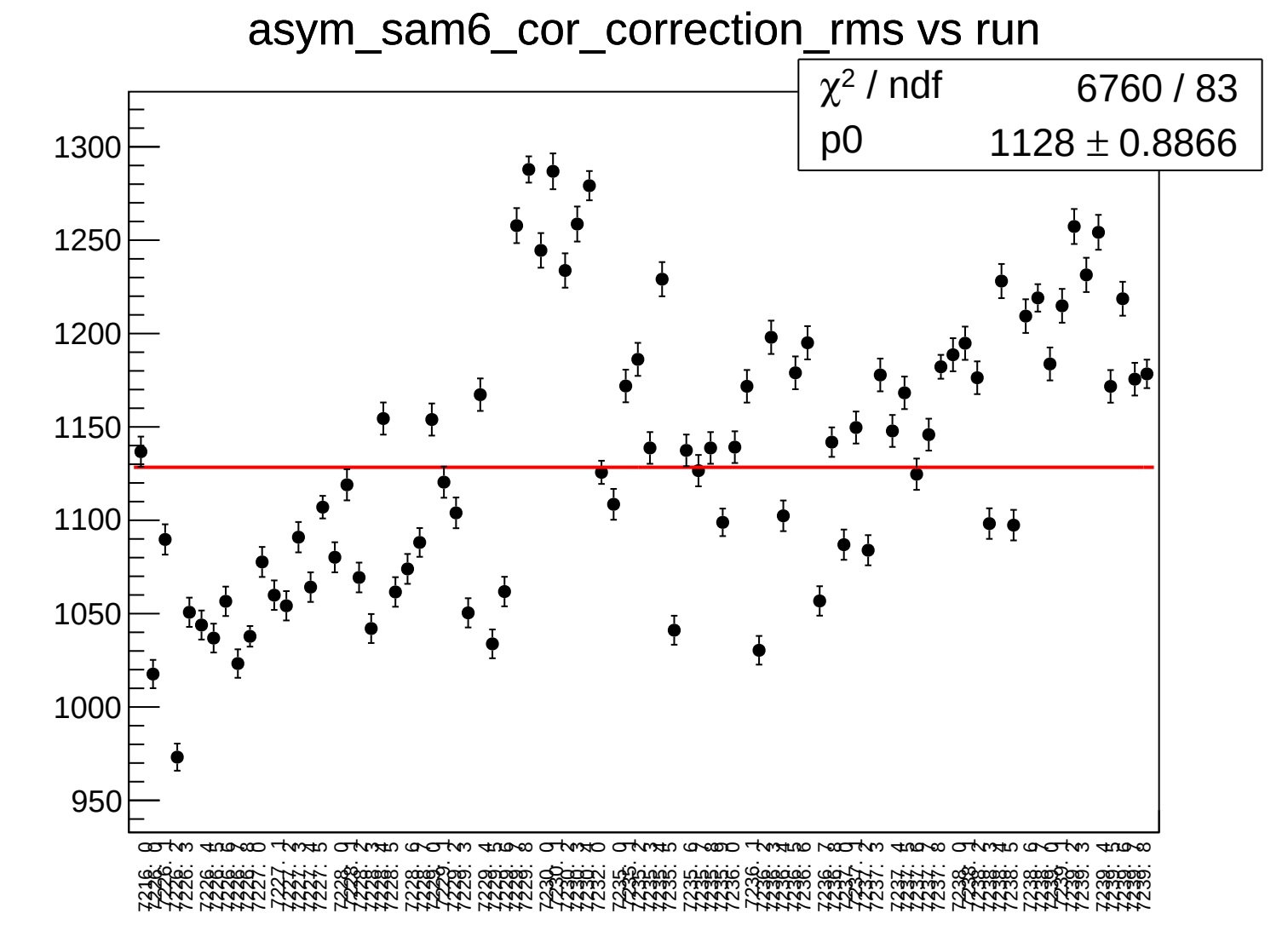

cor_asym_sam6_mean vs run
χ² / ndf 85.88 / 83
p0 −421.9 ± 191.5
pull
Entries 84
Mean 243.4
Std Dev 0

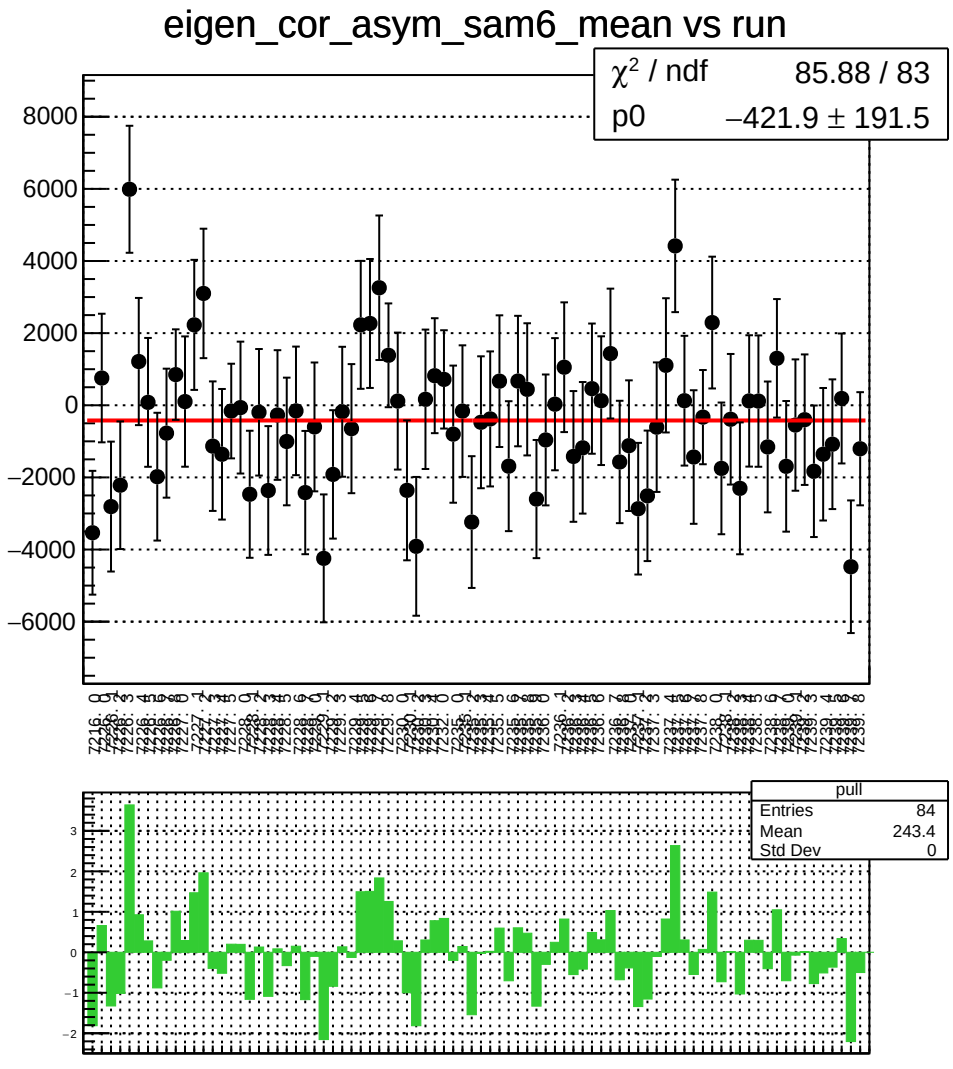

pull1D
Entries 84
Mean −0.0117
Std Dev 1.011

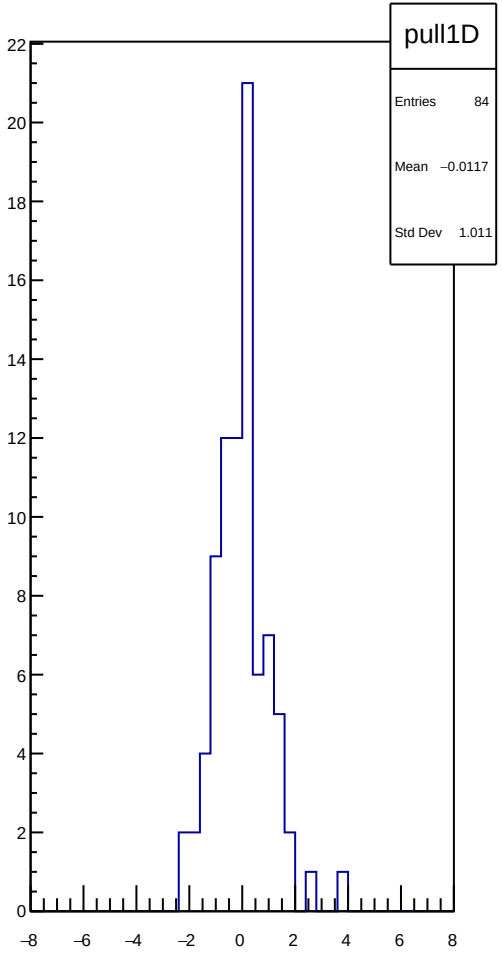

cor_asym_sam6_rms vs run
χ² / ndf 1341 / 83
p0 172.7 ± 0.1354
195
190
185
180
175
170
165

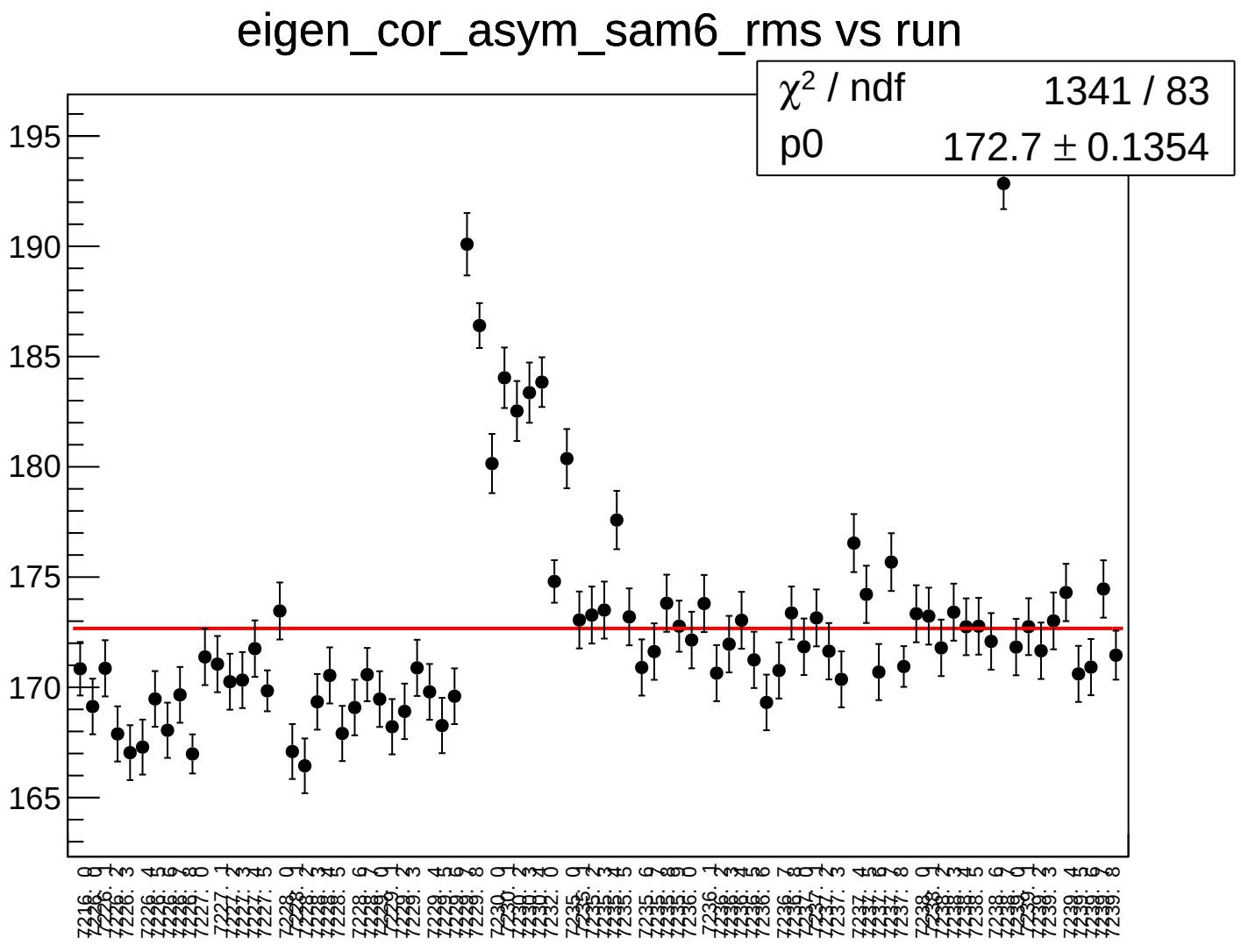

asym_sam6_cor_correction_mean vs run
χ² / ndf 67.19 / 83
p0 2423 ± 1254
pull
Entries 84
Mean −224.2
Std Dev 0

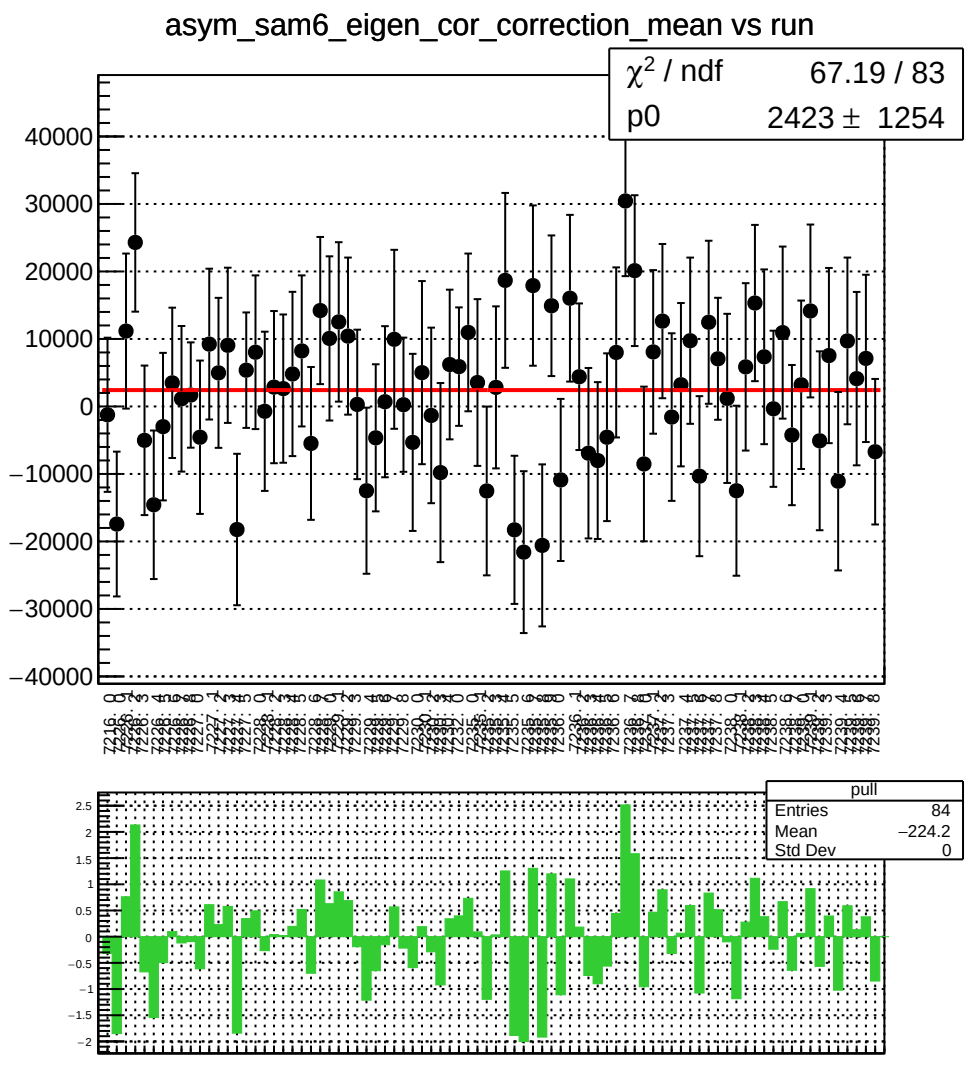

pull1D
Entries 84
Mean −0.00604
Std Dev 0.8944

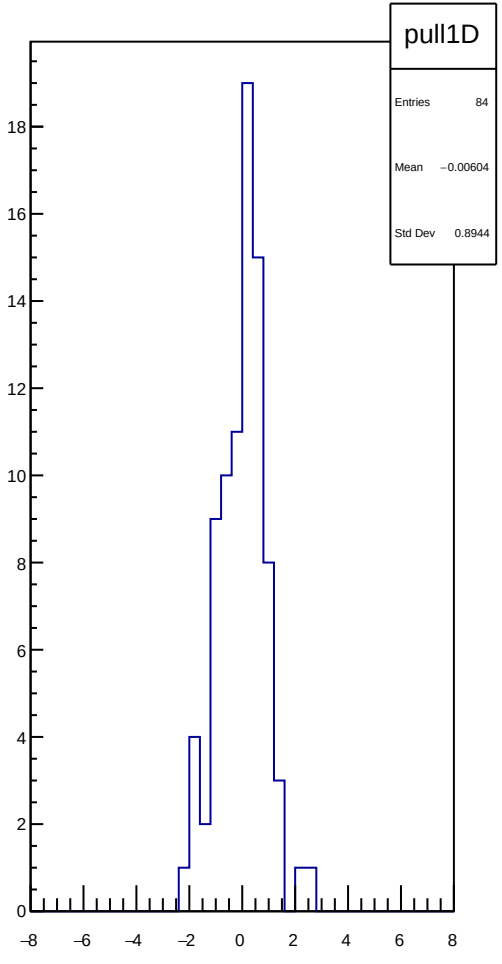

asym_sam6_cor_correction_rms vs run
χ² / ndf 6760 / 83
p0 1128 ± 0.8866
1300
1250
1200
1150
1100
1050
1000
950

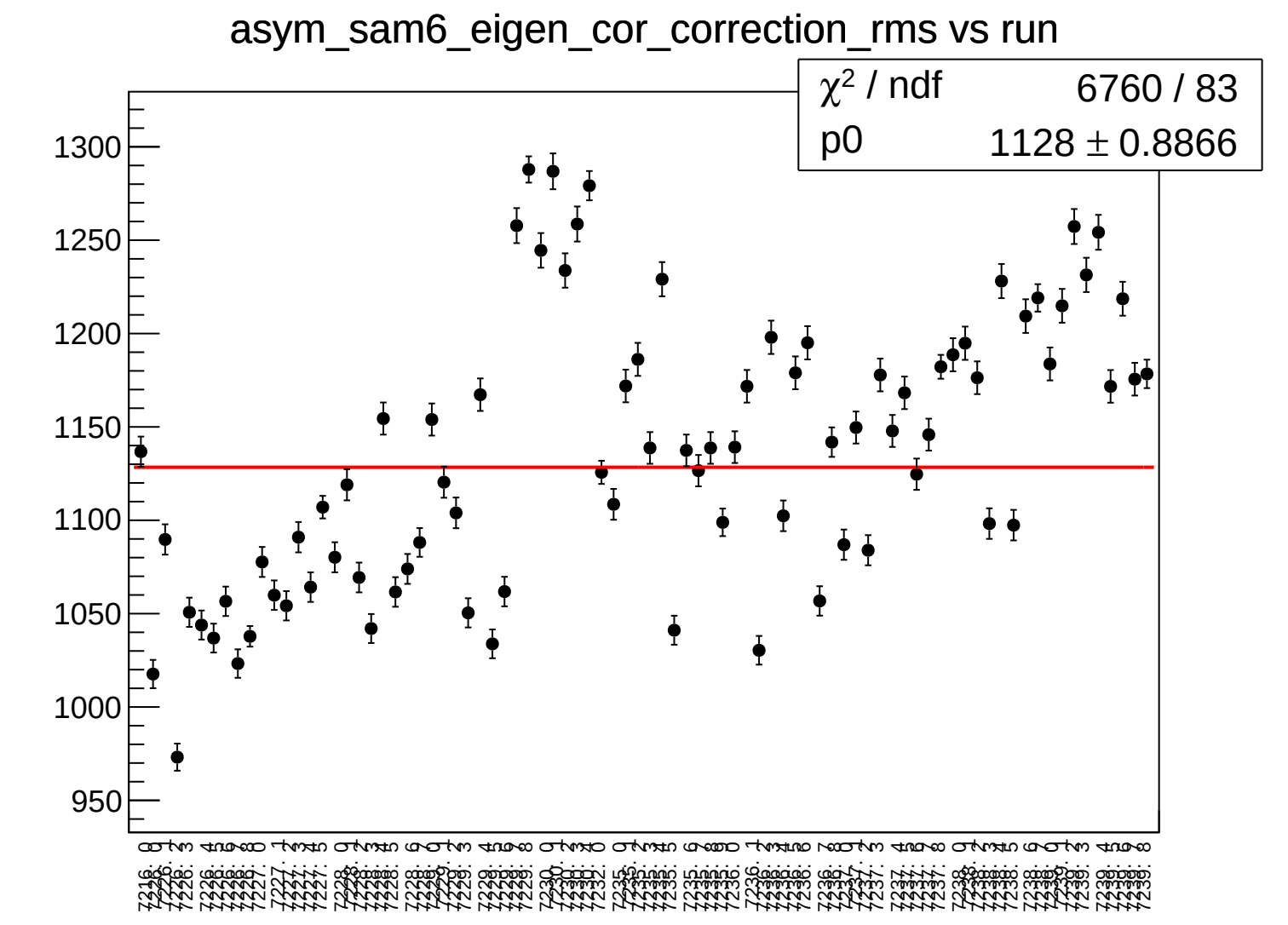

eigen_cor_asym_sam6_mean vs run
χ² / ndf 85.88 / 83
p0 −421.9 ± 191.5
pull
Entries 84
Mean 243.4
Std Dev 0

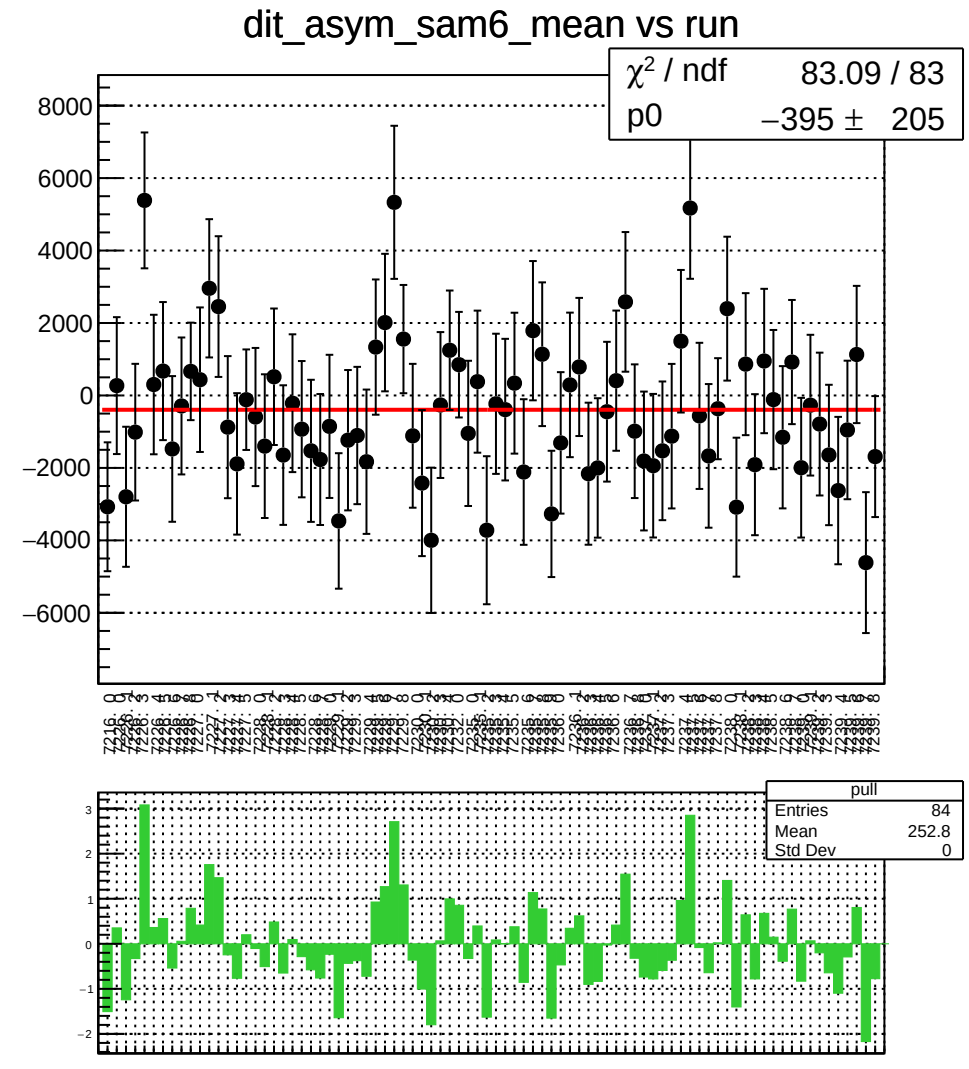

pull1D
Entries 84
Mean −0.0117
Std Dev 1.011

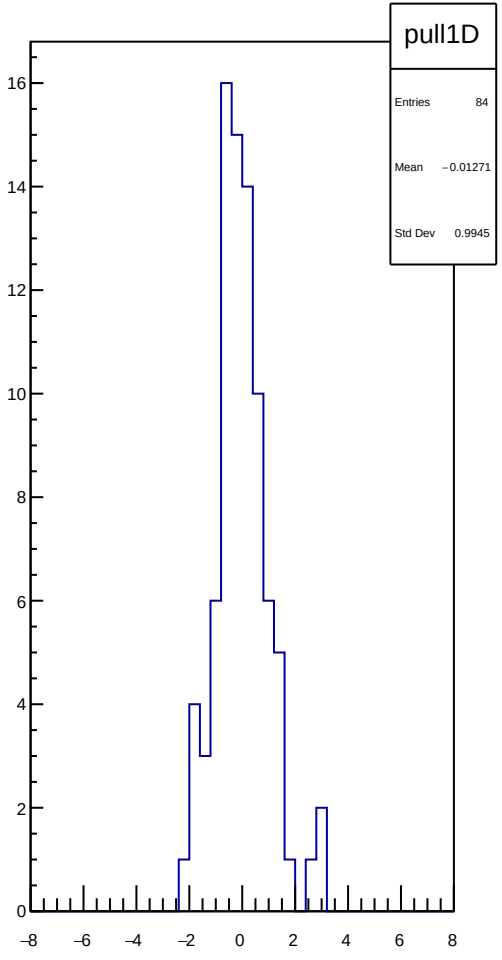

eigen_cor_asym_sam6_rms vs run
χ² / ndf 1341 / 83
p0 172.7 ± 0.1354
195
190
185
180
175
170
165

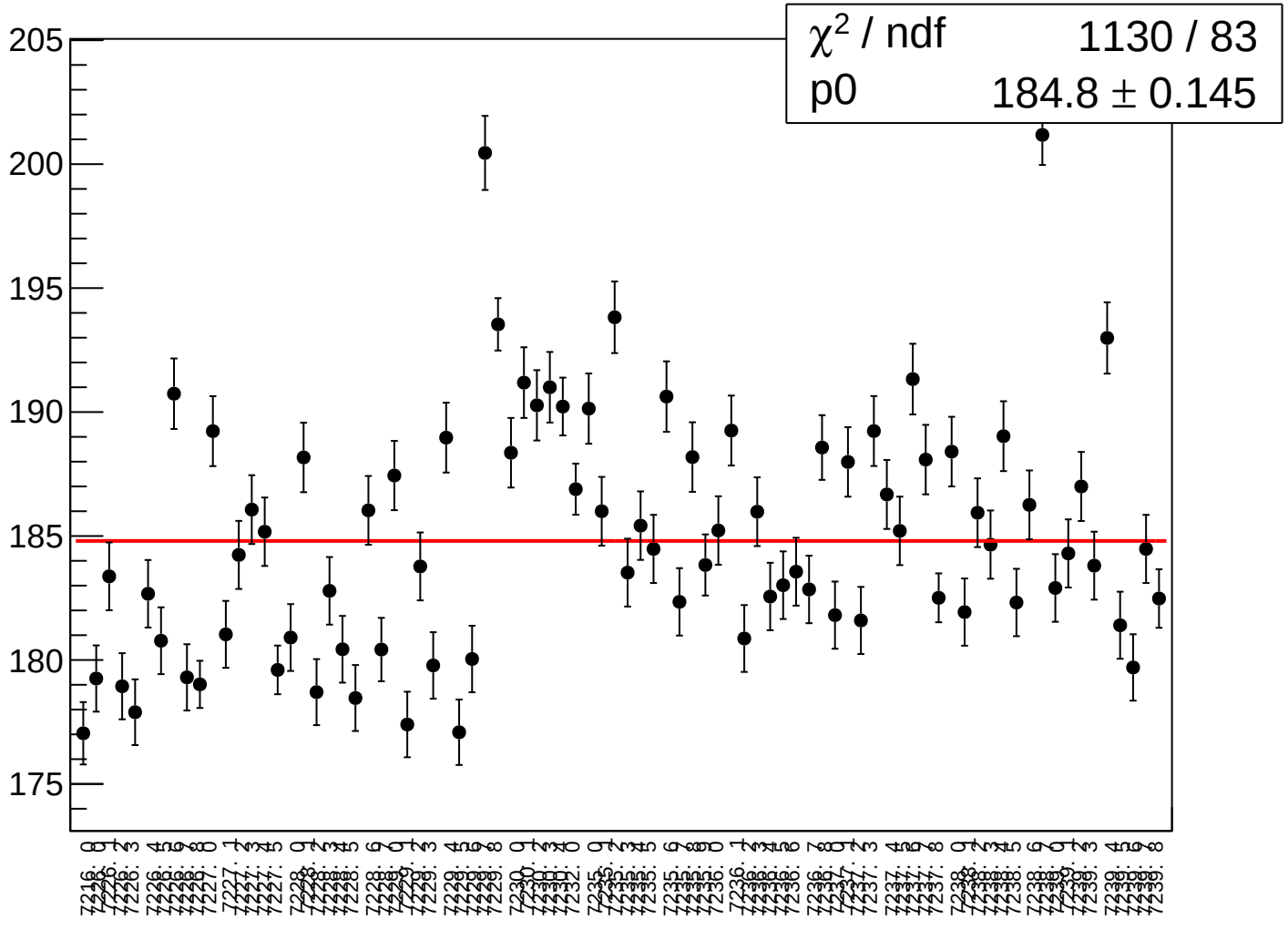

asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 67.19 / 83
p0 2423 ± 1254
pull
Entries 84
Mean −224.2
Std Dev 0

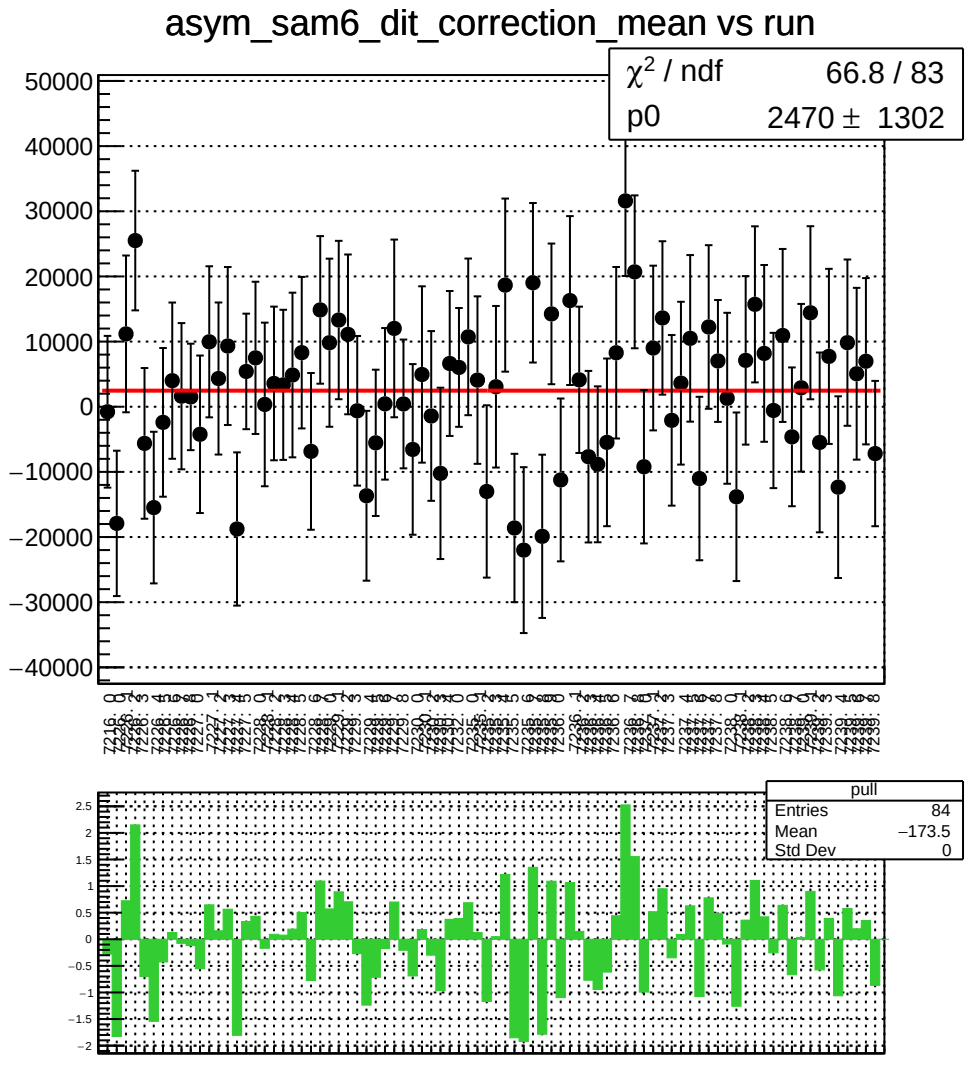

pull1D
Entries 84
Mean −0.00604
Std Dev 0.8944

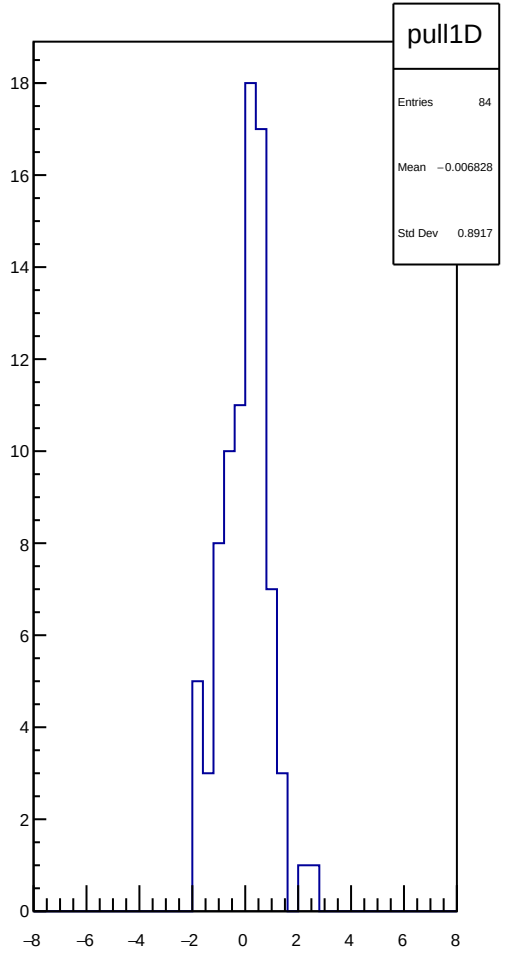

asym_sam6_eigen_cor_correction_rms vs run
χ² / ndf 6760 / 83
p0 1128 ± 0.8866
1300
1250
1200
1150
1100
1050
1000
950

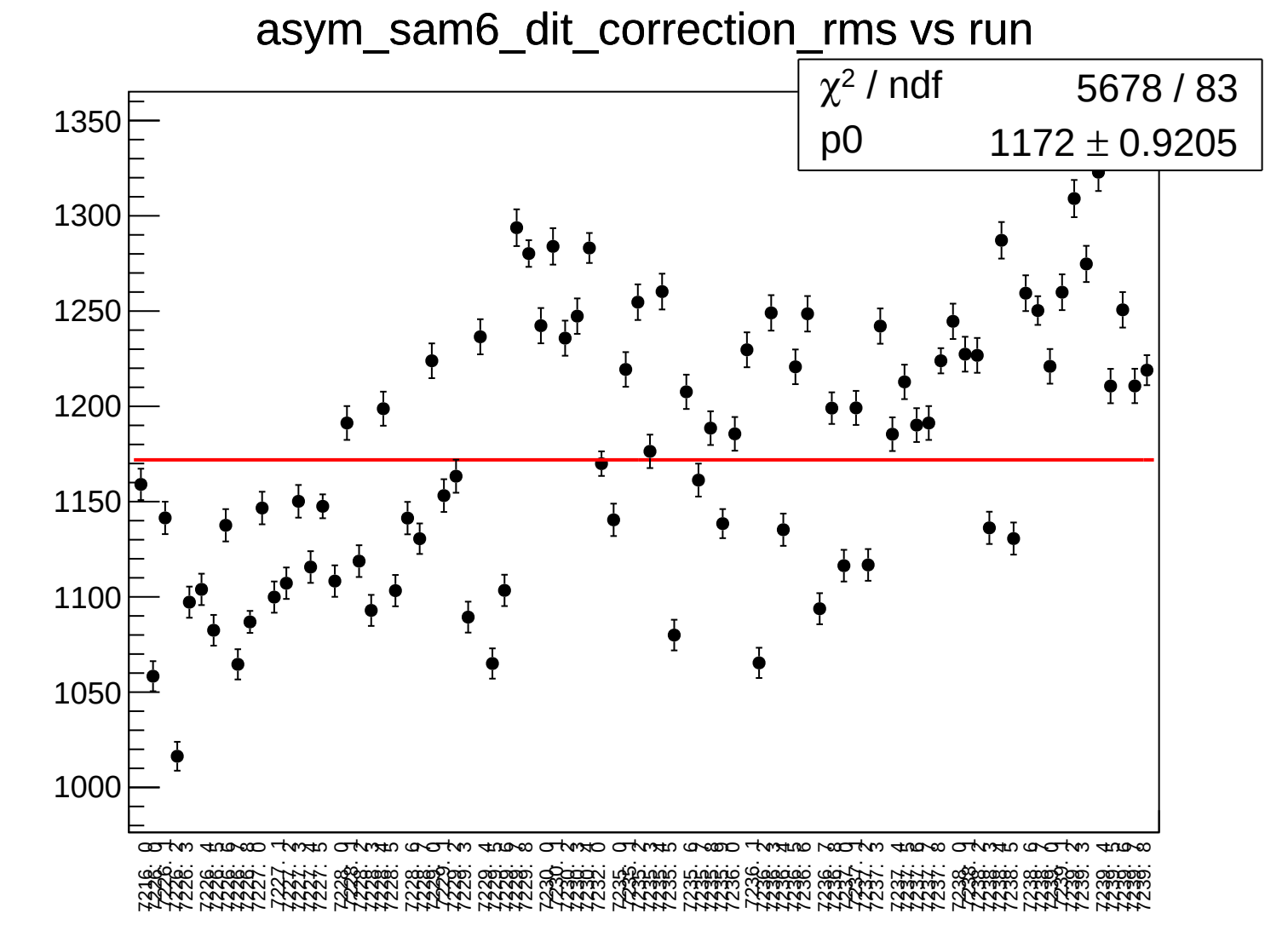

dit_asym_sam6_mean vs run
χ² / ndf 83.09 / 83
p0 −395 ± 205
pull
Entries 84
Mean 252.8
Std Dev 0

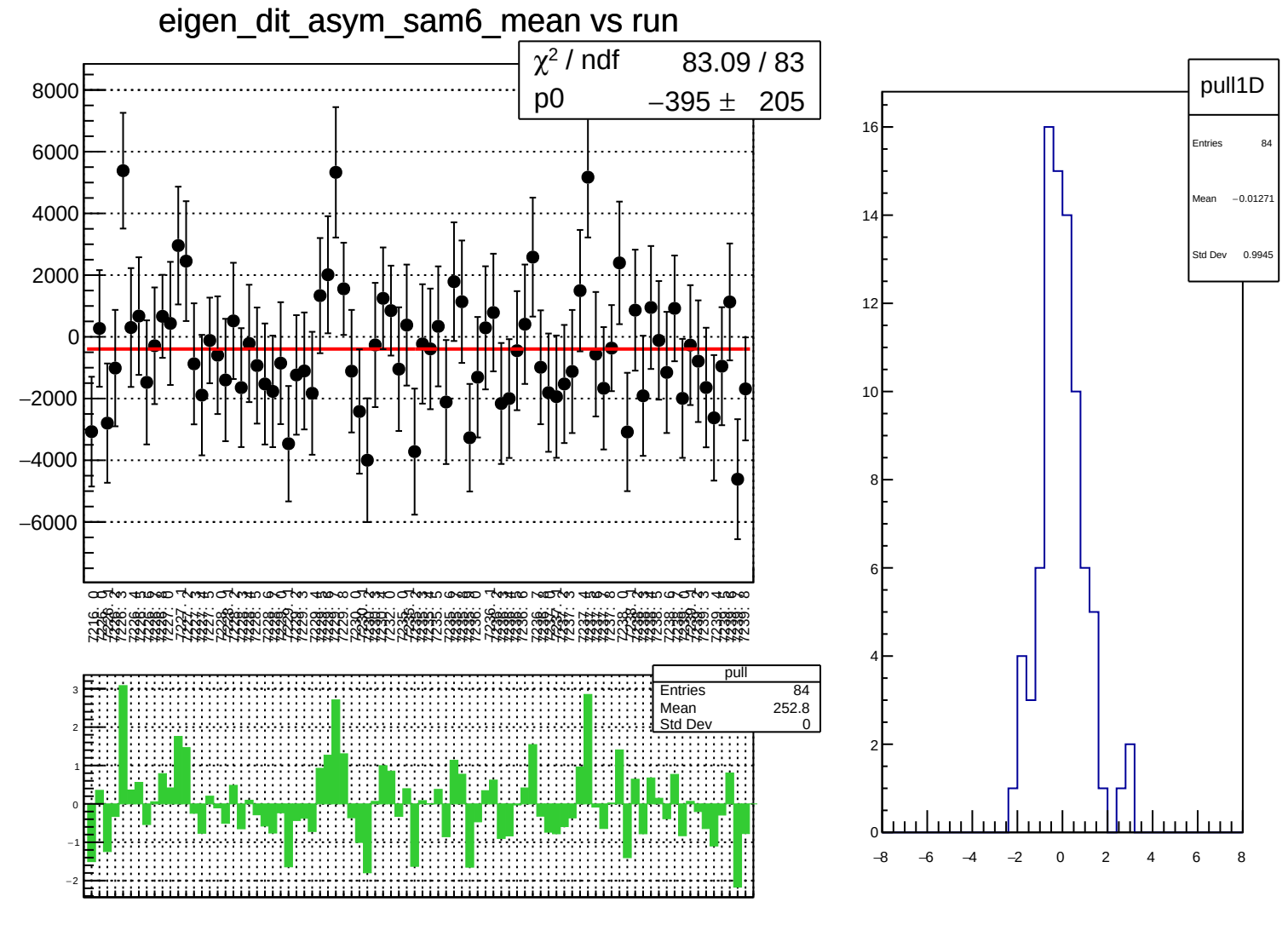

pull1D
Entries 84
Mean −0.01271
Std Dev 0.9945

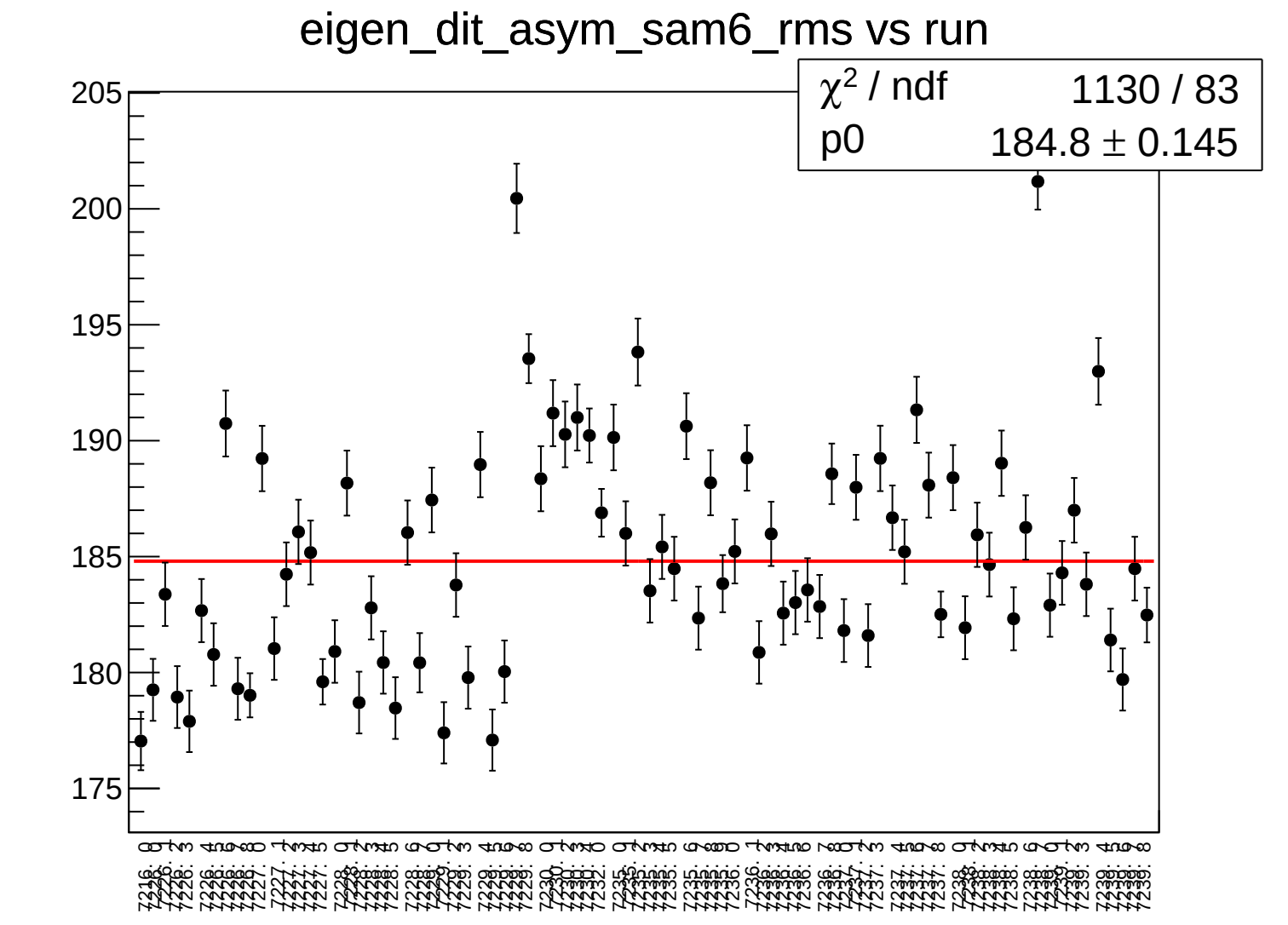

dit_asym_sam6_rms vs run
χ² / ndf 1130 / 83
p0 184.8 ± 0.145
205
200
195
190
185
180
175

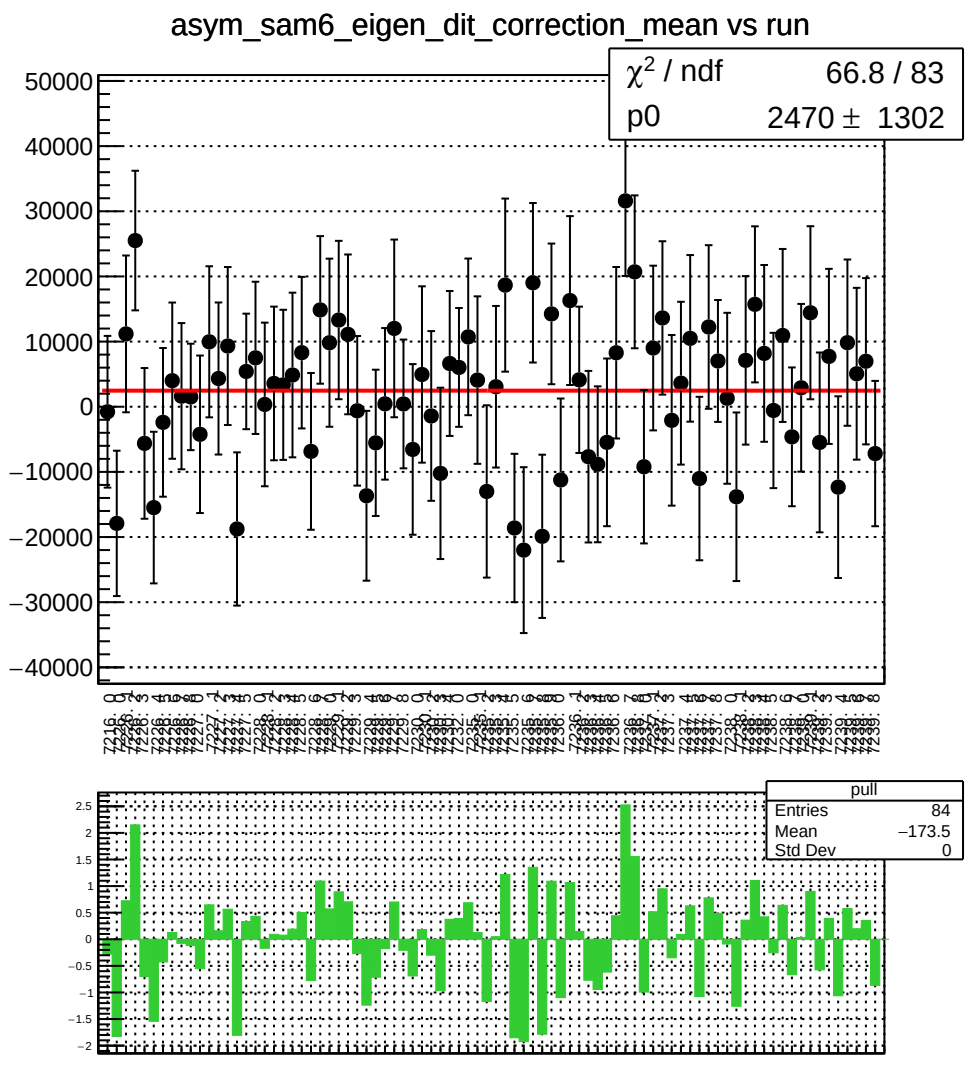

asym_sam6_dit_correction_mean vs run
χ² / ndf 66.8 / 83
p0 2470 ± 1302
pull
Entries 84
Mean −173.5
Std Dev 0

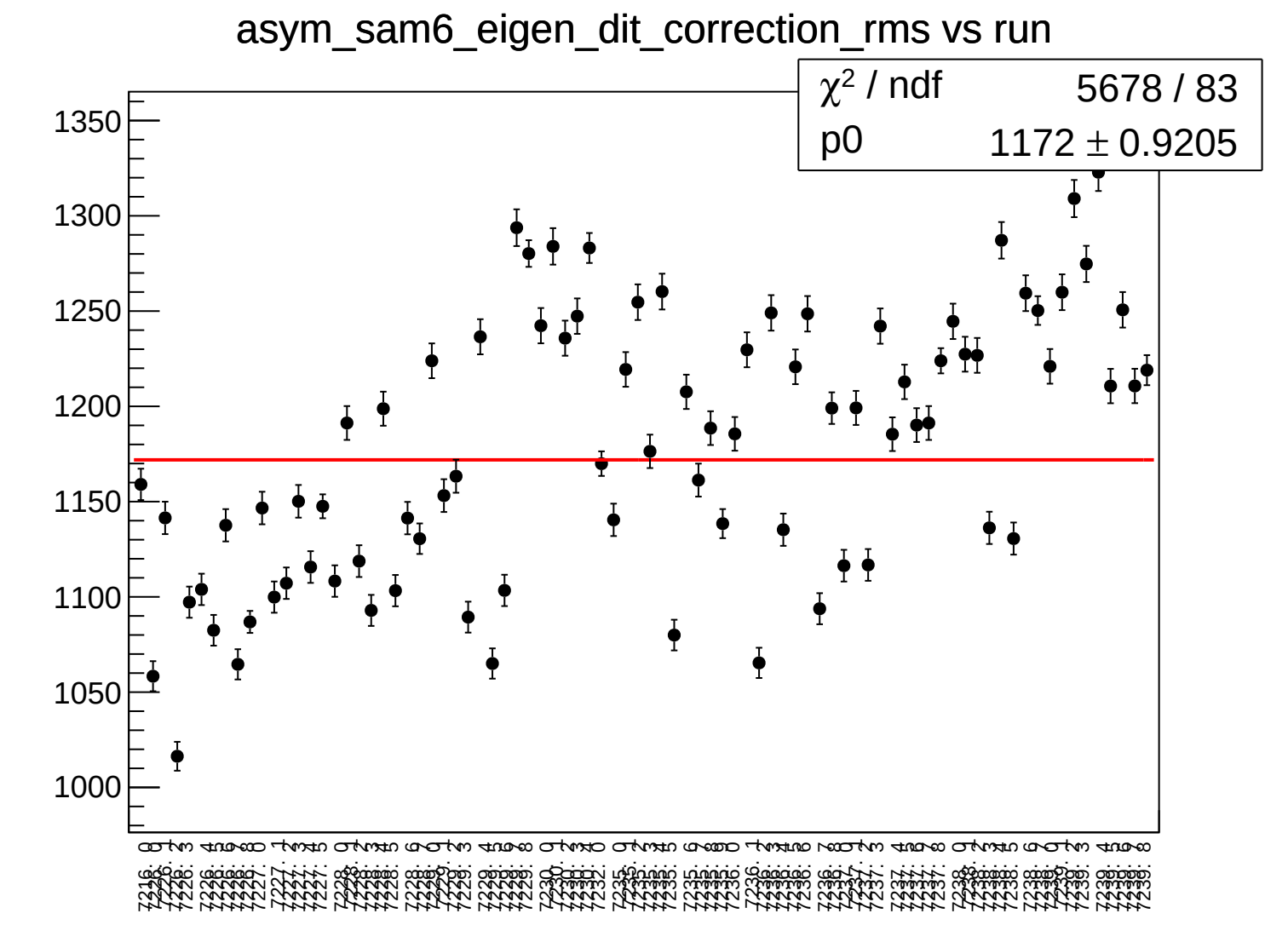

pull1D
Entries 84
Mean −0.006828
Std Dev 0.8917

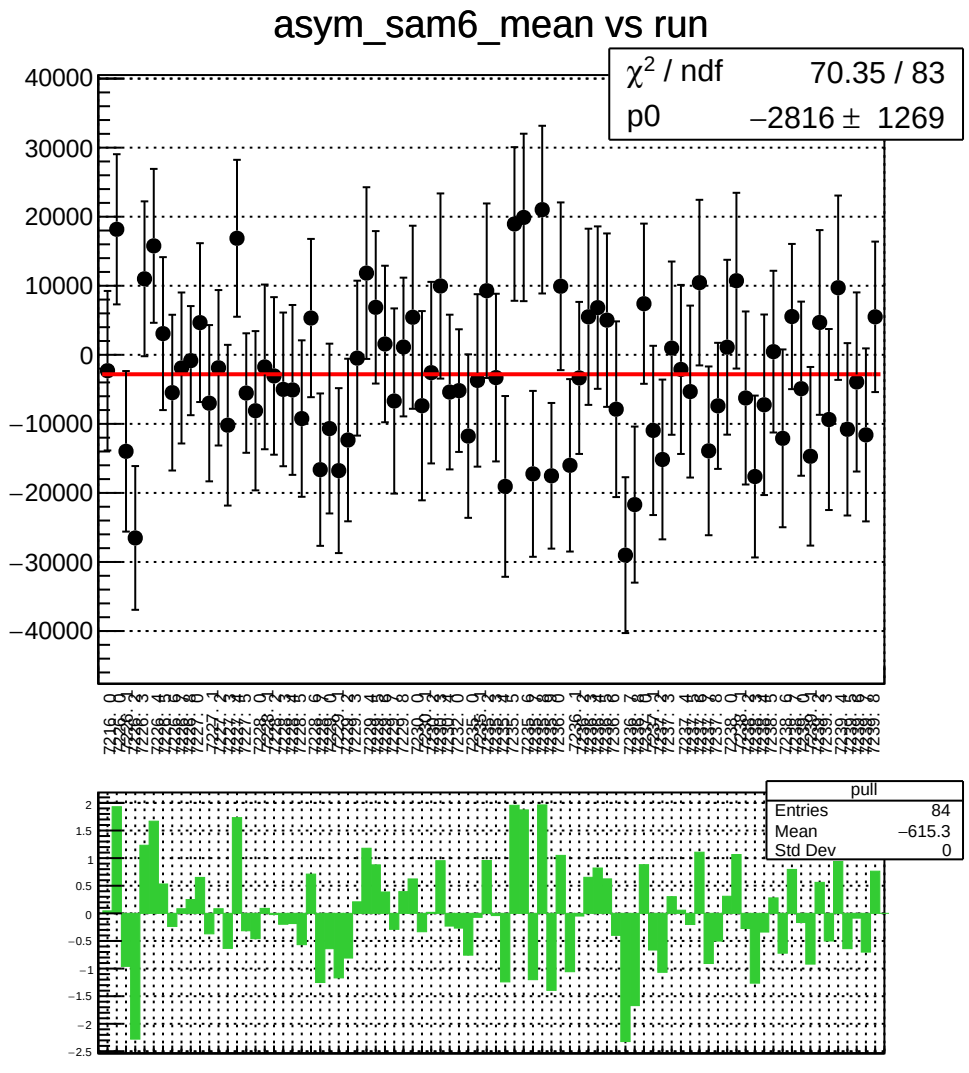

asym_sam6_dit_correction_rms vs run
χ² / ndf 5678 / 83
p0 1172 ± 0.9205
1350
1300
1250
1200
1150
1100
1050
1000

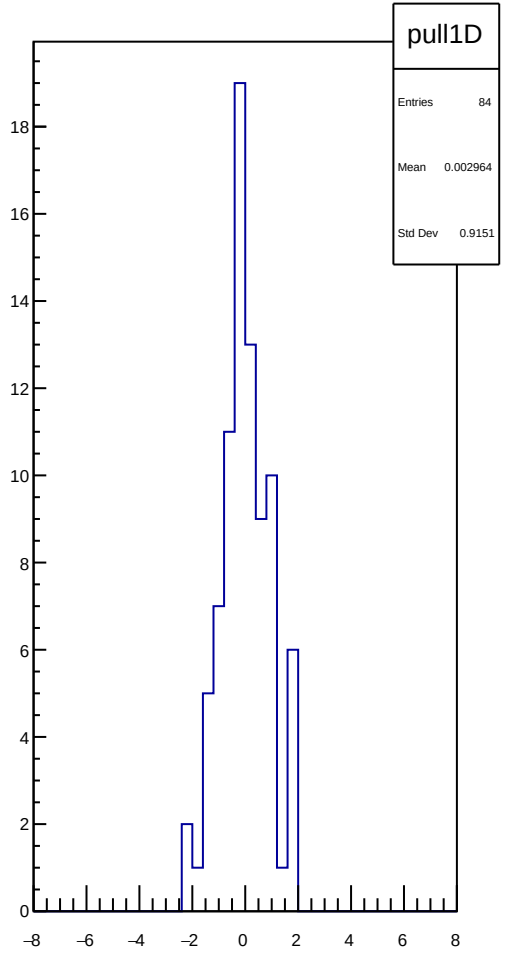

eigen_dit_asym_sam6_mean vs run
χ² / ndf 83.09 / 83
p0 −395 ± 205
pull
Entries 84
Mean 252.8
Std Dev 0
pull1D
Entries 84
Mean −0.01271
Std Dev 0.9945

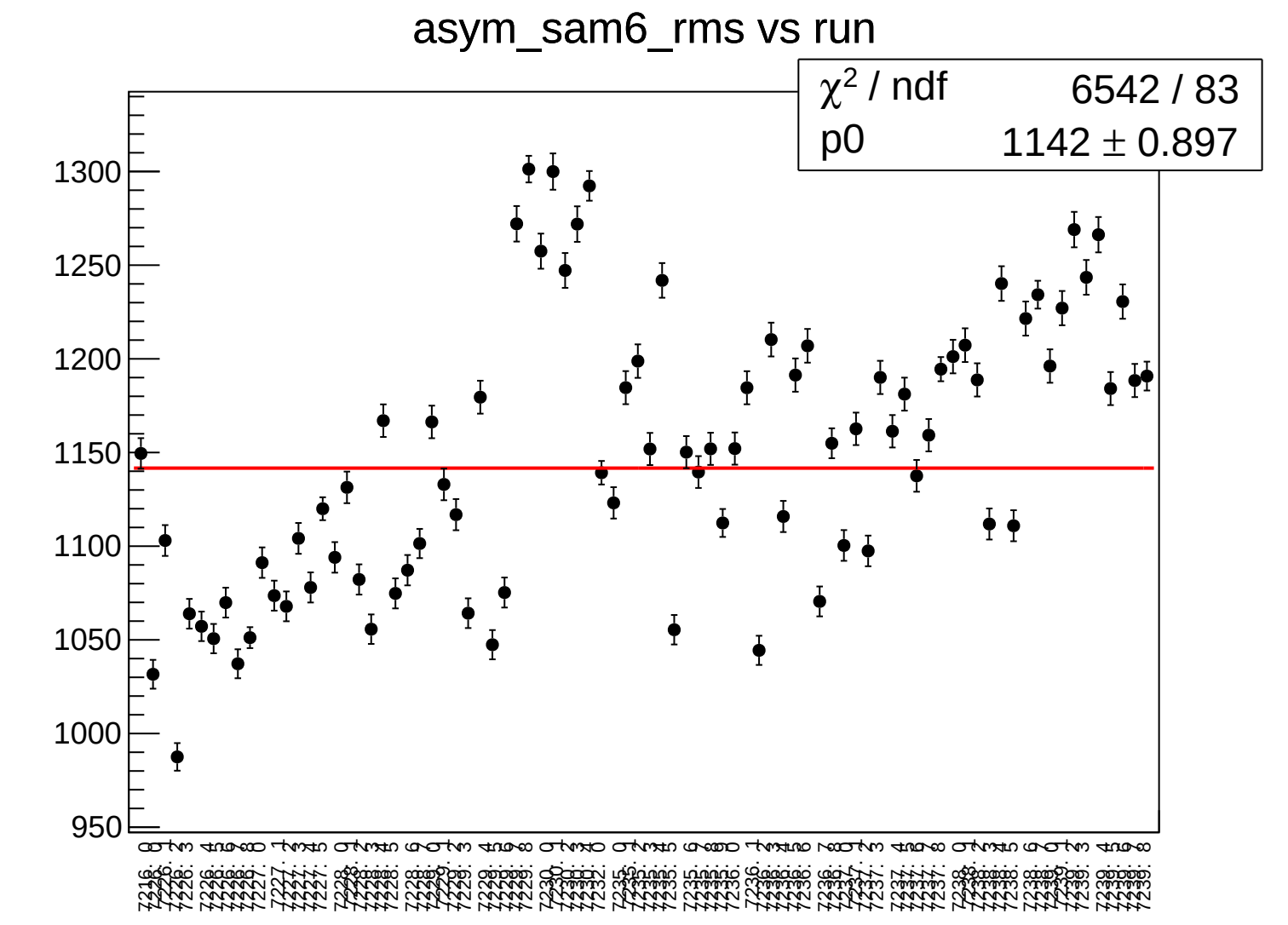

eigen_dit_asym_sam6_rms vs run
χ² / ndf 1130 / 83
p0 184.8 ± 0.145
205
200
195
190
185
180
175

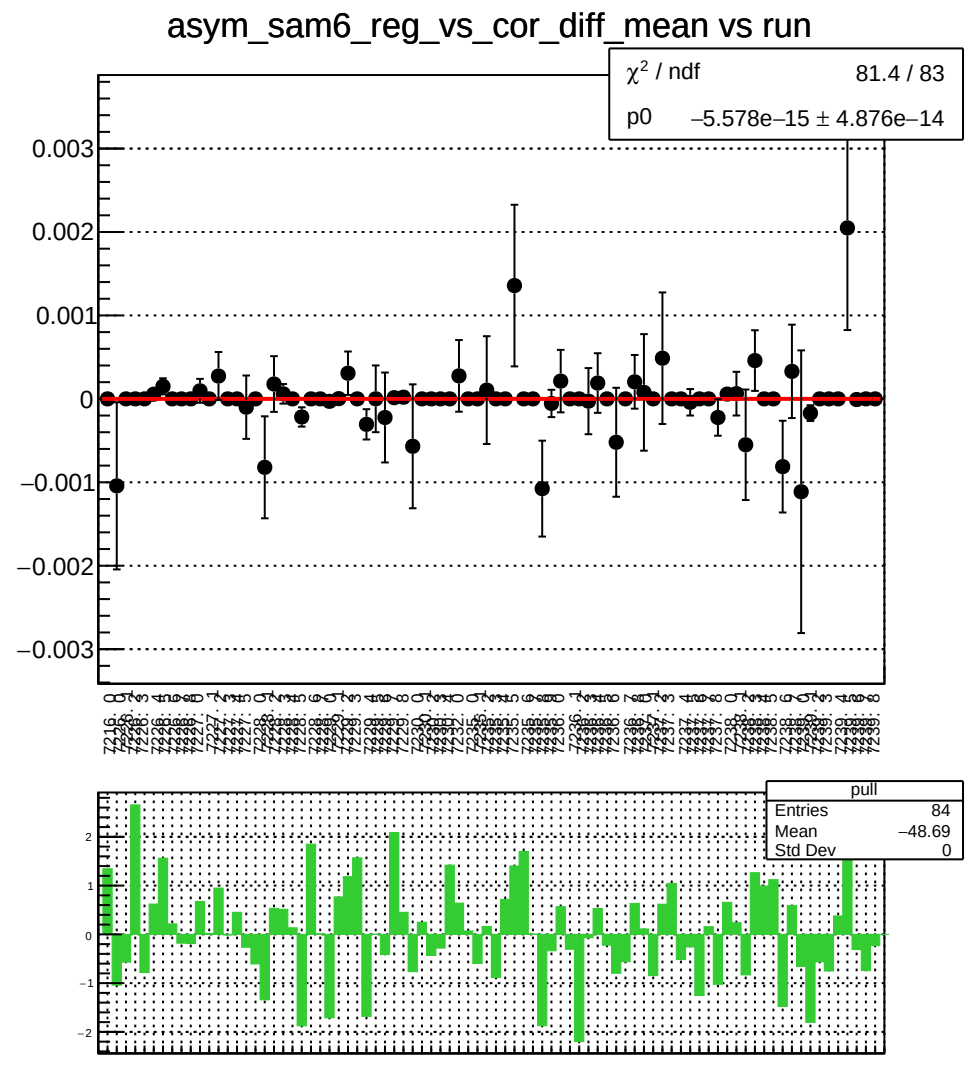

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 66.8 / 83
p0 2470 ± 1302
pull
Entries 84
Mean −173.5
Std Dev 0
pull1D
Entries 84
Mean −0.006828
Std Dev 0.8917

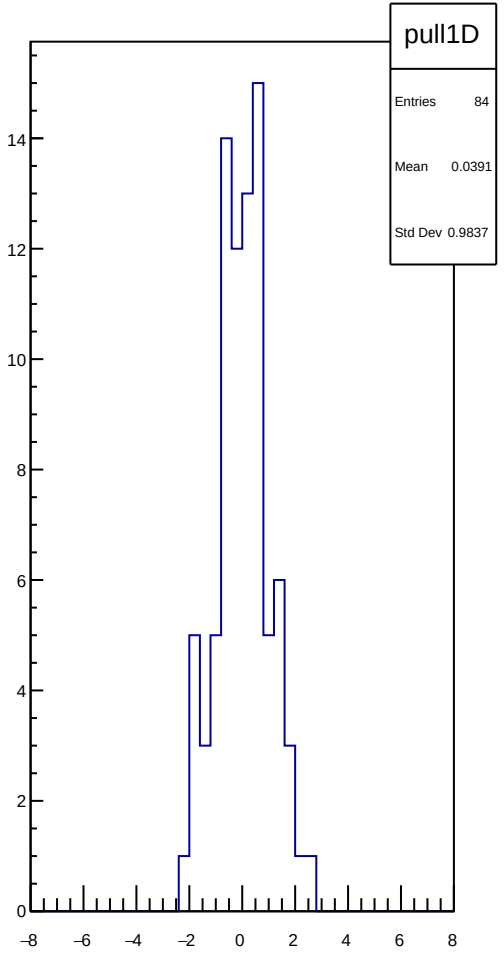

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 5678 / 83
p0 1172 ± 0.9205
1350
1300
1250
1200
1150
1100
1050
1000

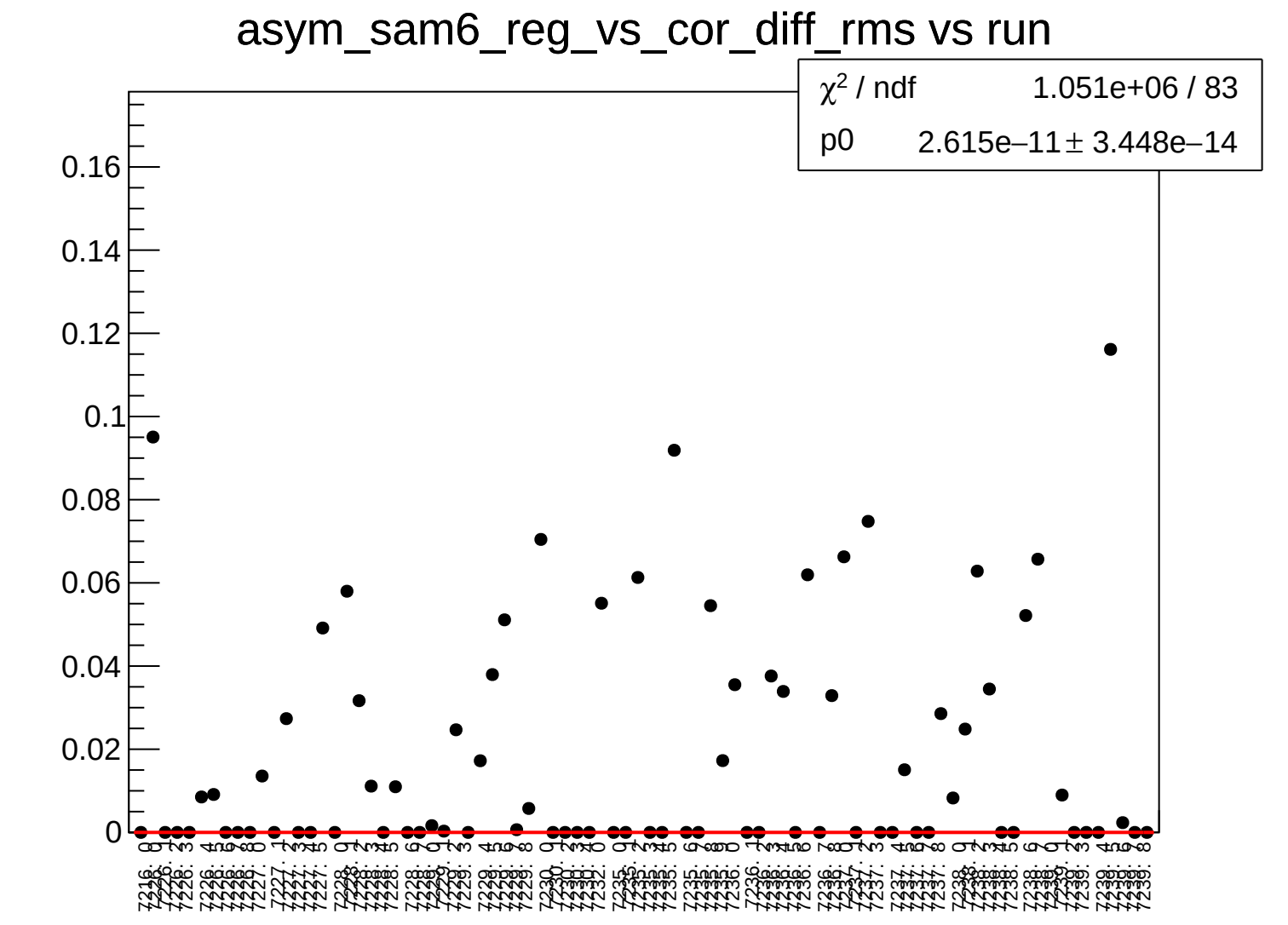

asym_sam6_mean vs run
χ² / ndf 70.35 / 83
p0 −2816 ± 1269
pull
Entries 84
Mean −615.3
Std Dev 0

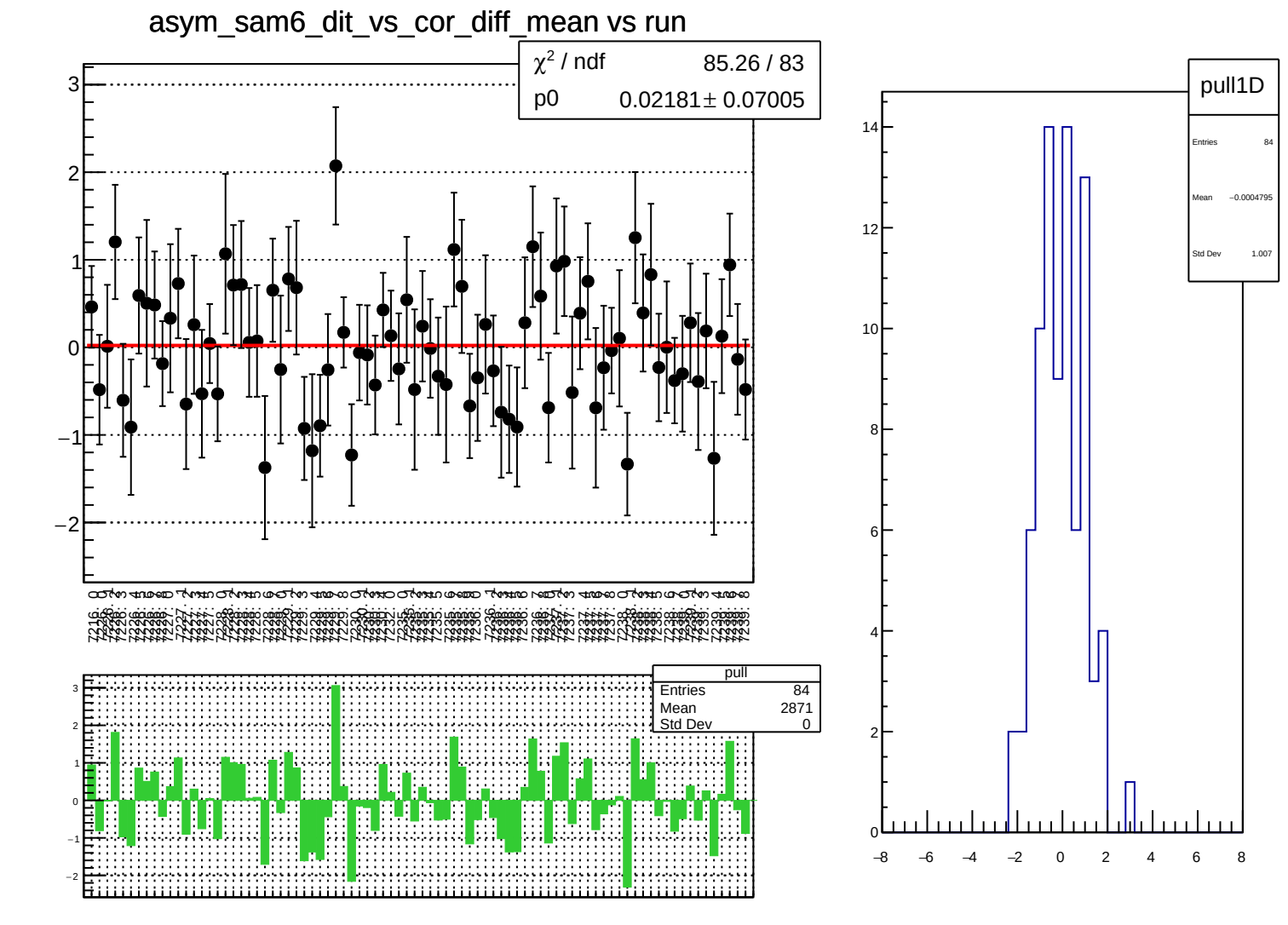

pull1D
Entries 84
Mean 0.002964
Std Dev 0.9151

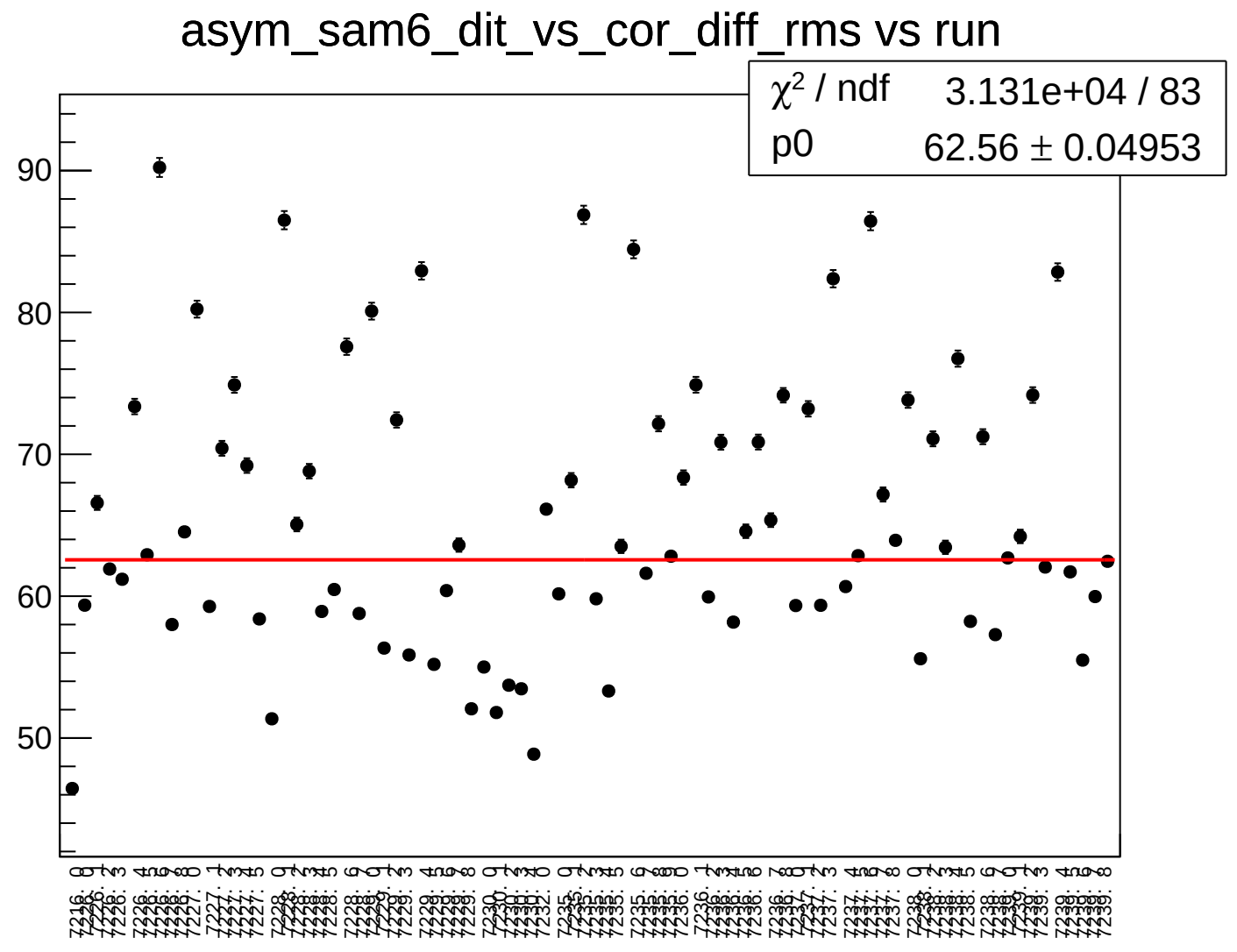

asym_sam6_rms vs run
χ² / ndf 6542 / 83
p0 1142 ± 0.897
1300
1250
1200
1150
1100
1050
1000
950

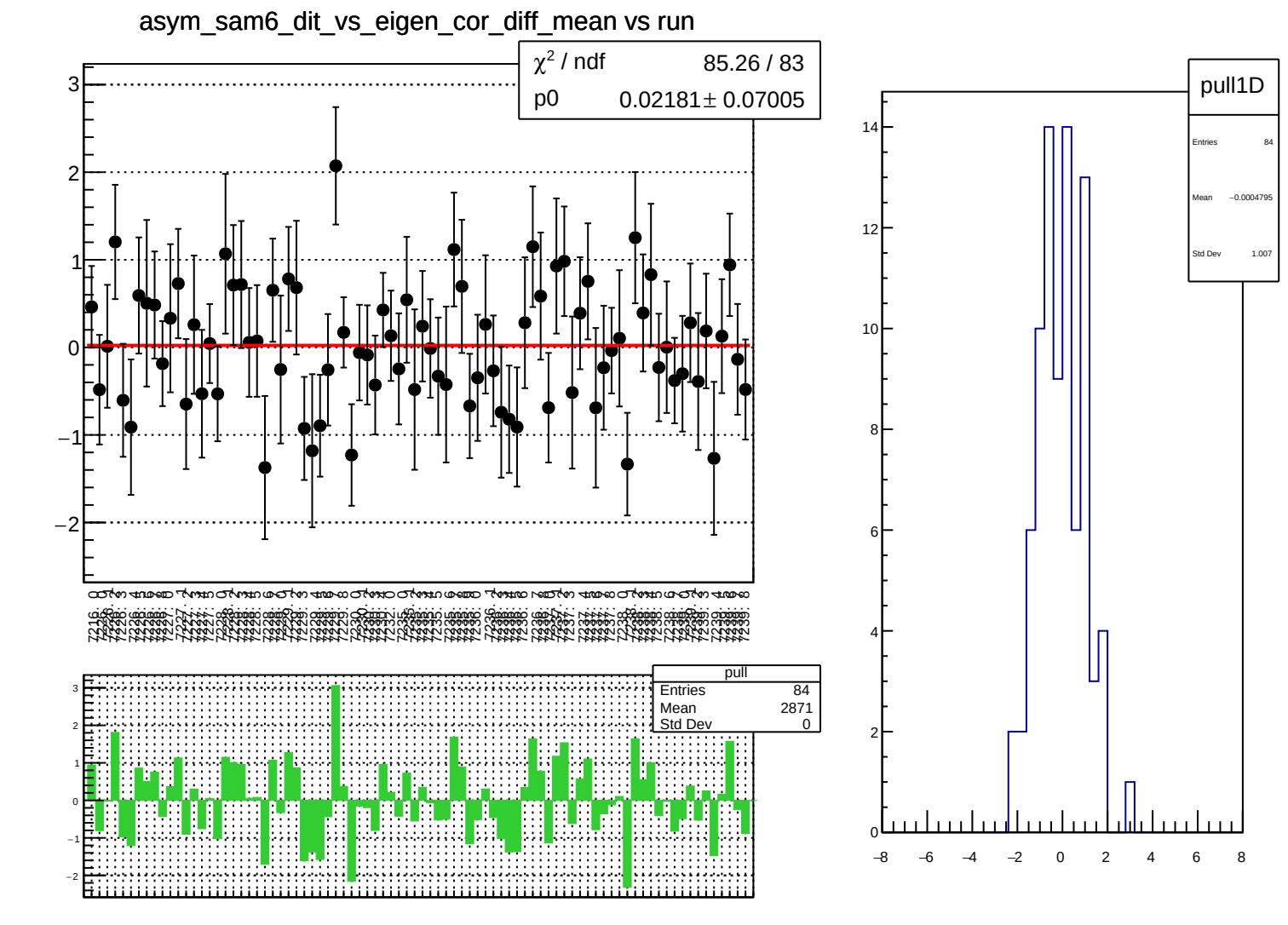

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 81.4 / 83
p0 −5.578e−15 ± 4.876e−14
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 84
Mean −48.69
Std Dev 0
2
1
0
−1
−2

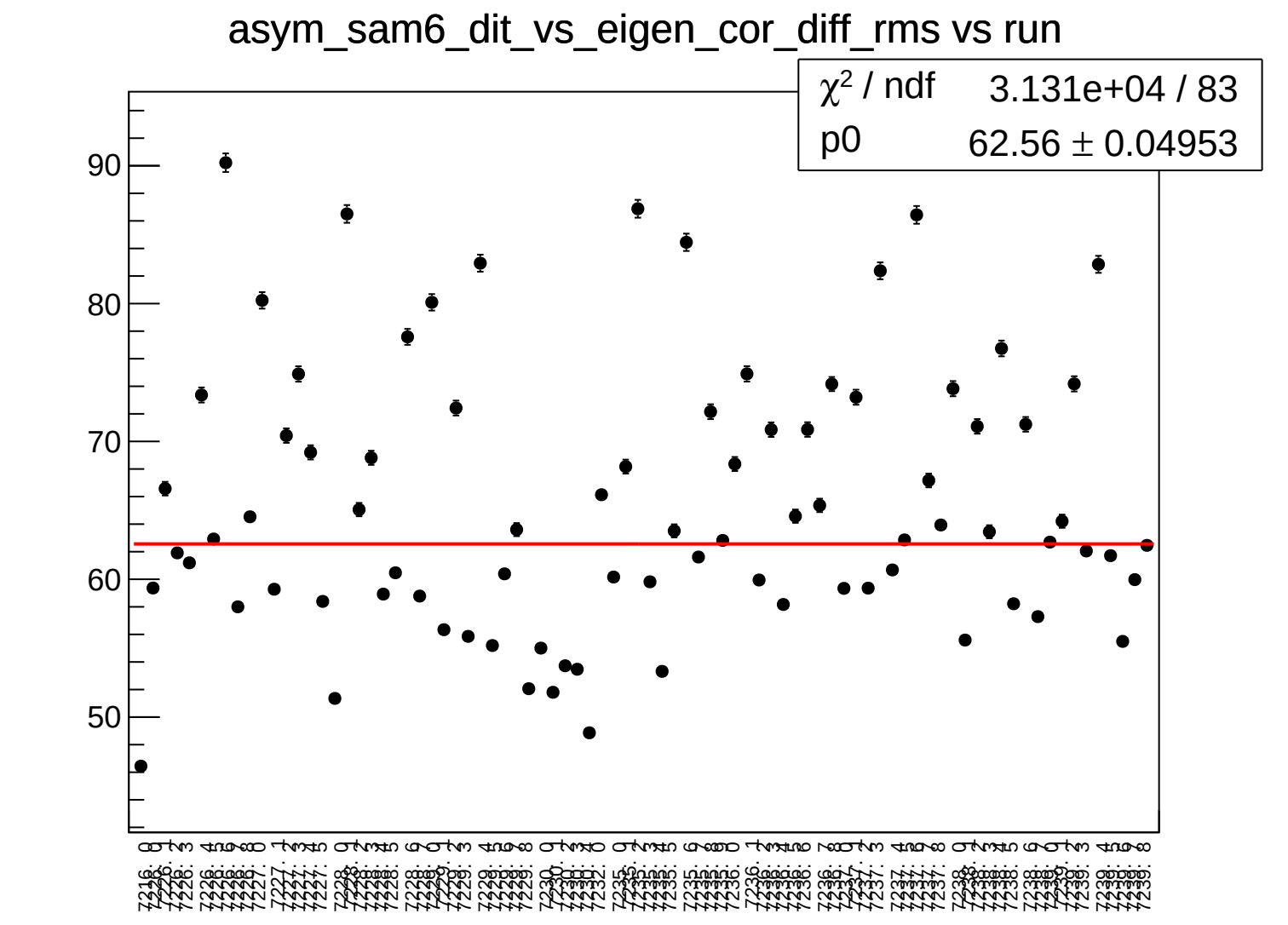

pull1D
Entries 84
Mean 0.0391
Std Dev 0.9837
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

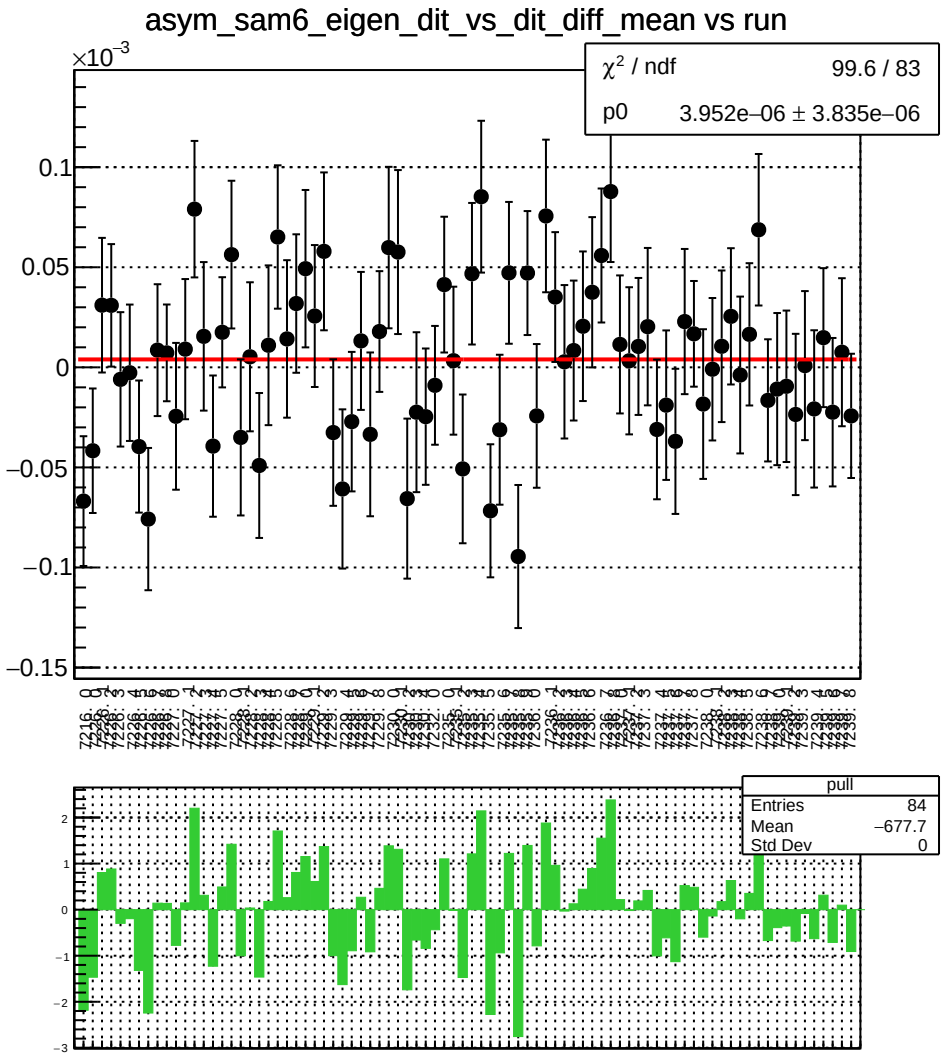

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 1.051e+06 / 83
p0 2.615e−11 ± 3.448e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

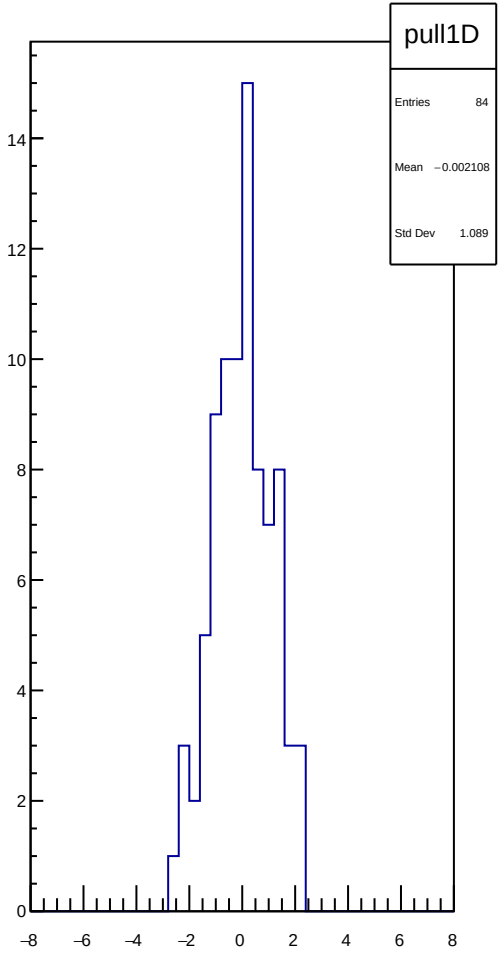

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 85.26 / 83
p0 0.02181 ± 0.07005
pull
Entries 84
Mean 2871
Std Dev 0
pull1D
Entries 84
Mean −0.0004795
Std Dev 1.007

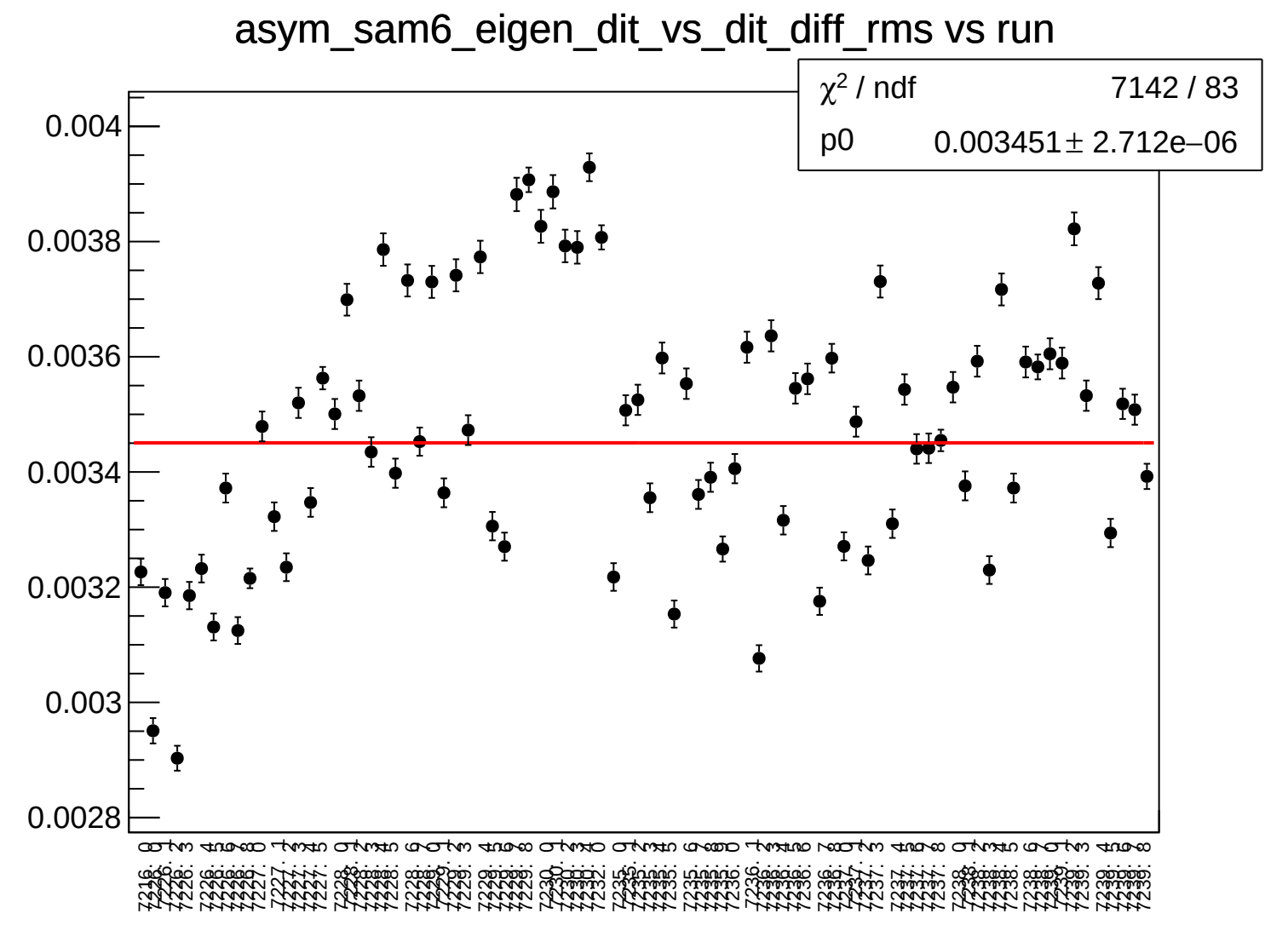

asym_sam6_dit_vs_cor_diff_rms vs run
χ² / ndf 3.131e+04 / 83
p0 62.56 ± 0.04953
90
80
70
60
50

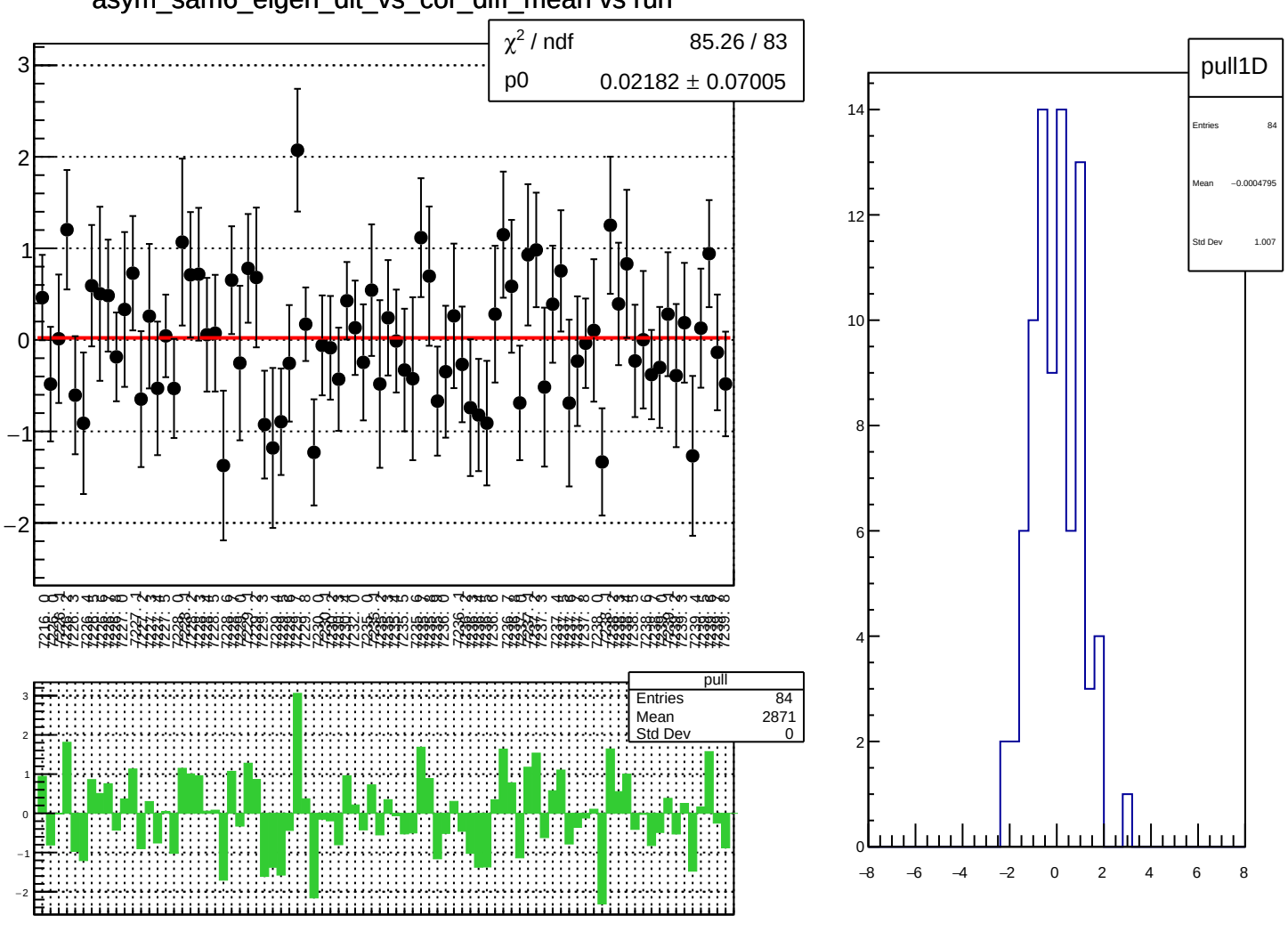

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.26 / 83
p0 0.02181 ± 0.07005
pull
Entries 84
Mean 2871
Std Dev 0
pull1D
Entries 84
Mean −0.0004795
Std Dev 1.007

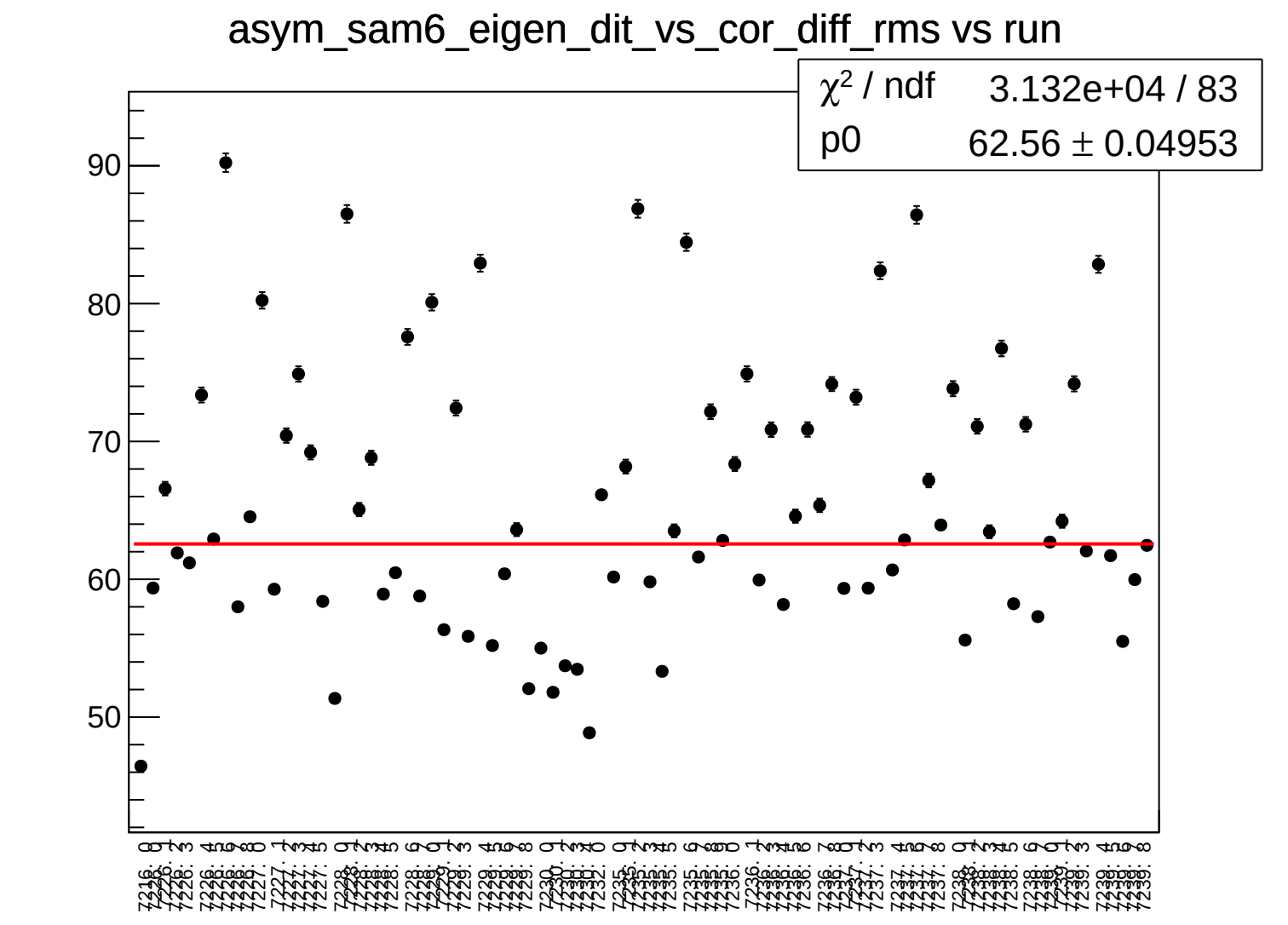

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 3.131e+04 / 83
p0 62.56 ± 0.04953
90
80
70
60
50

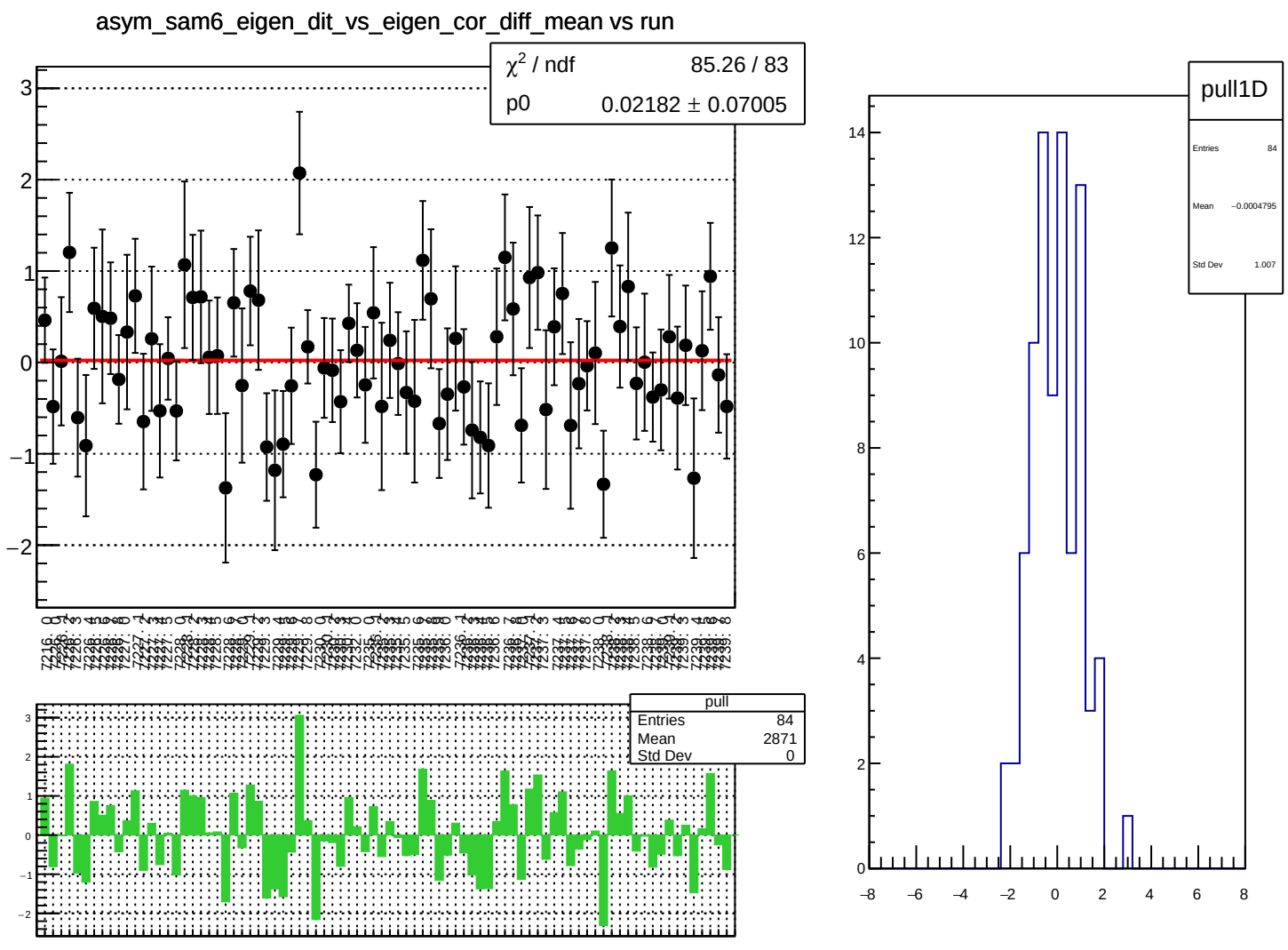

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.6 / 83
p0 3.952e−06 ± 3.835e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 84
Mean −677.7
Std Dev 0
2
1
0
−1
−2
−3

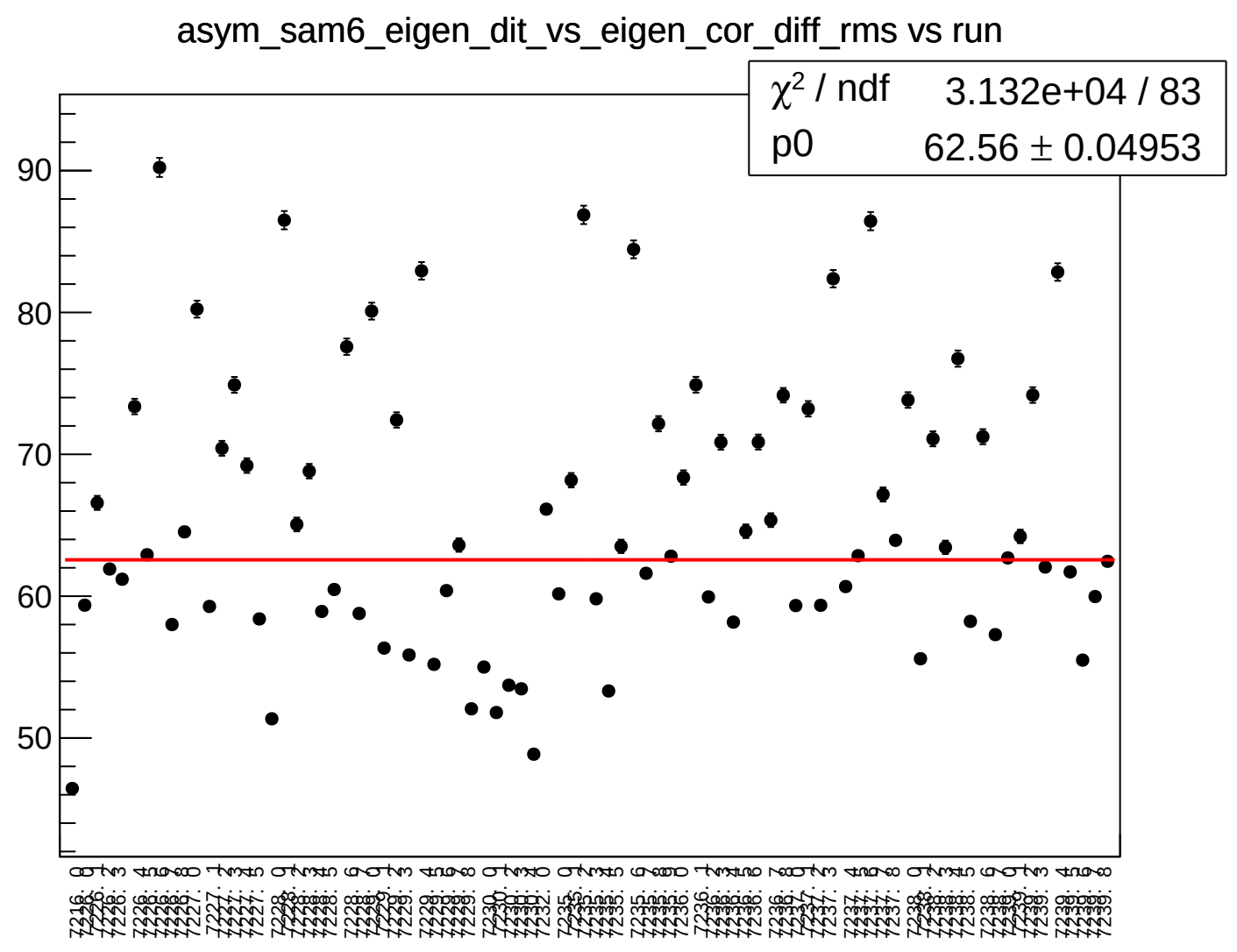

pull1D
Entries 84
Mean −0.002108
Std Dev 1.089
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

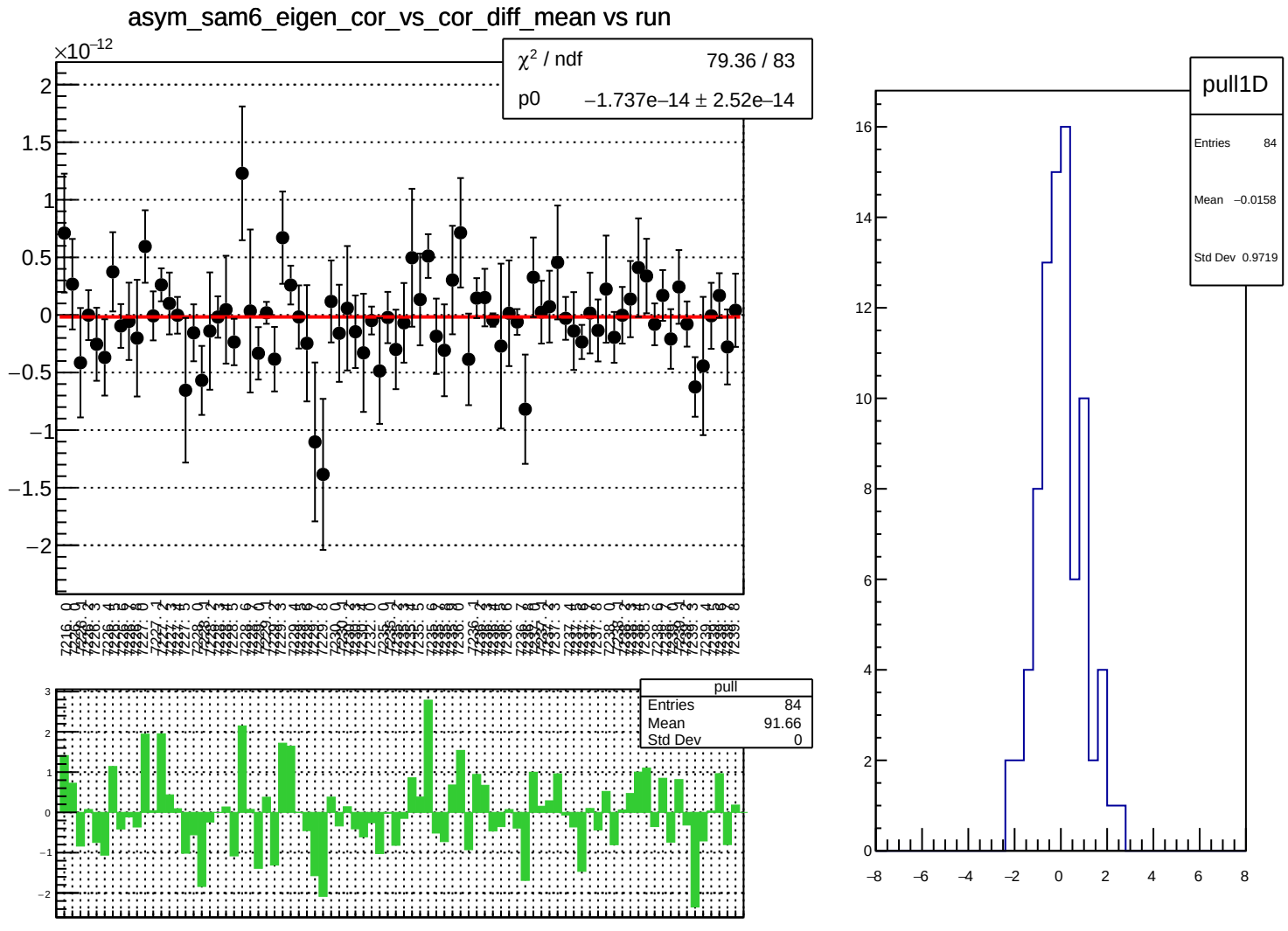

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7142 / 83
p0 0.003451 ± 2.712e−06
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028

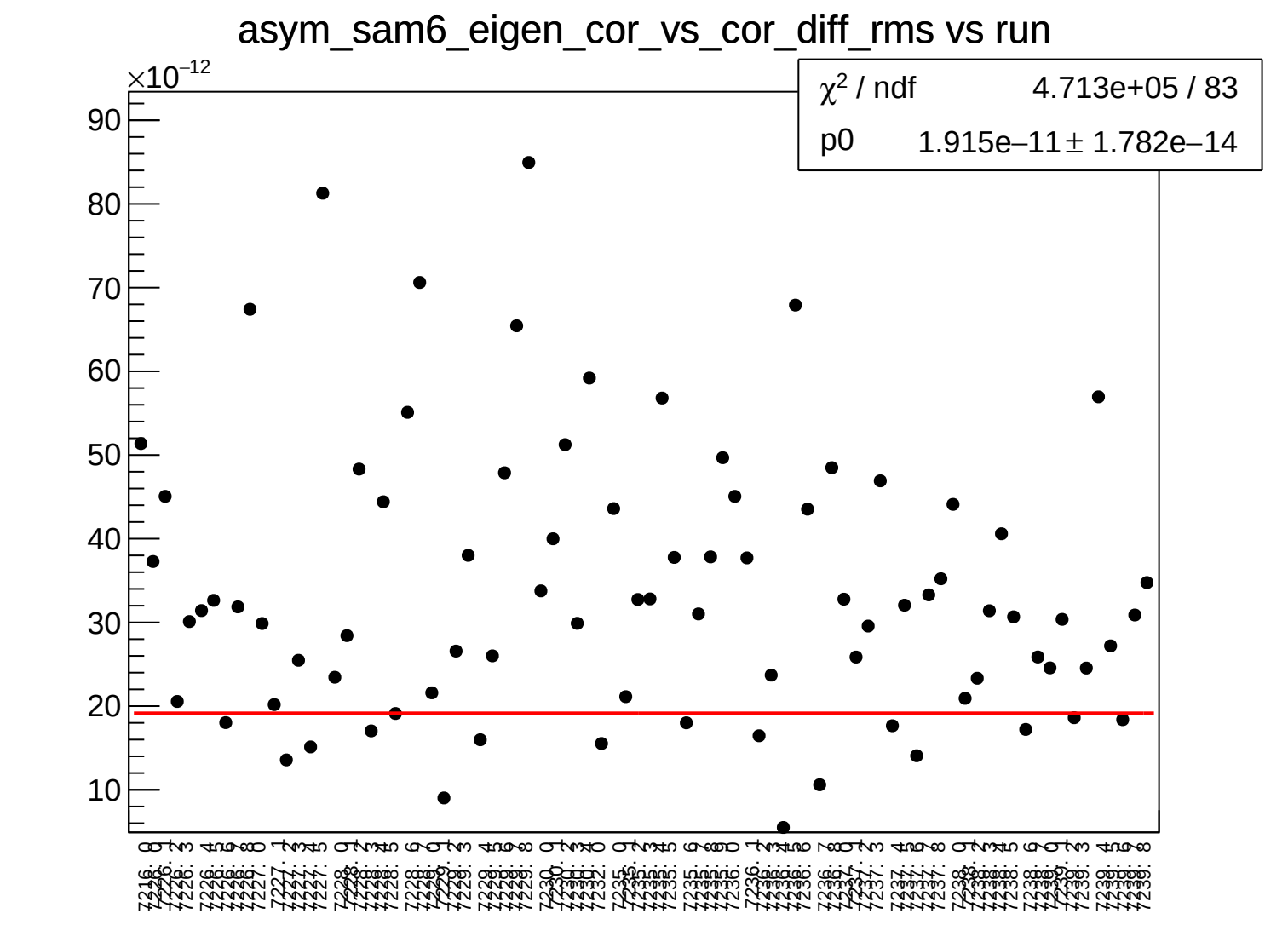

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.26 / 83
p0 0.02182 ± 0.07005
pull
Entries 84
Mean 2871
Std Dev 0
pull1D
Entries 84
Mean −0.0004795
Std Dev 1.007

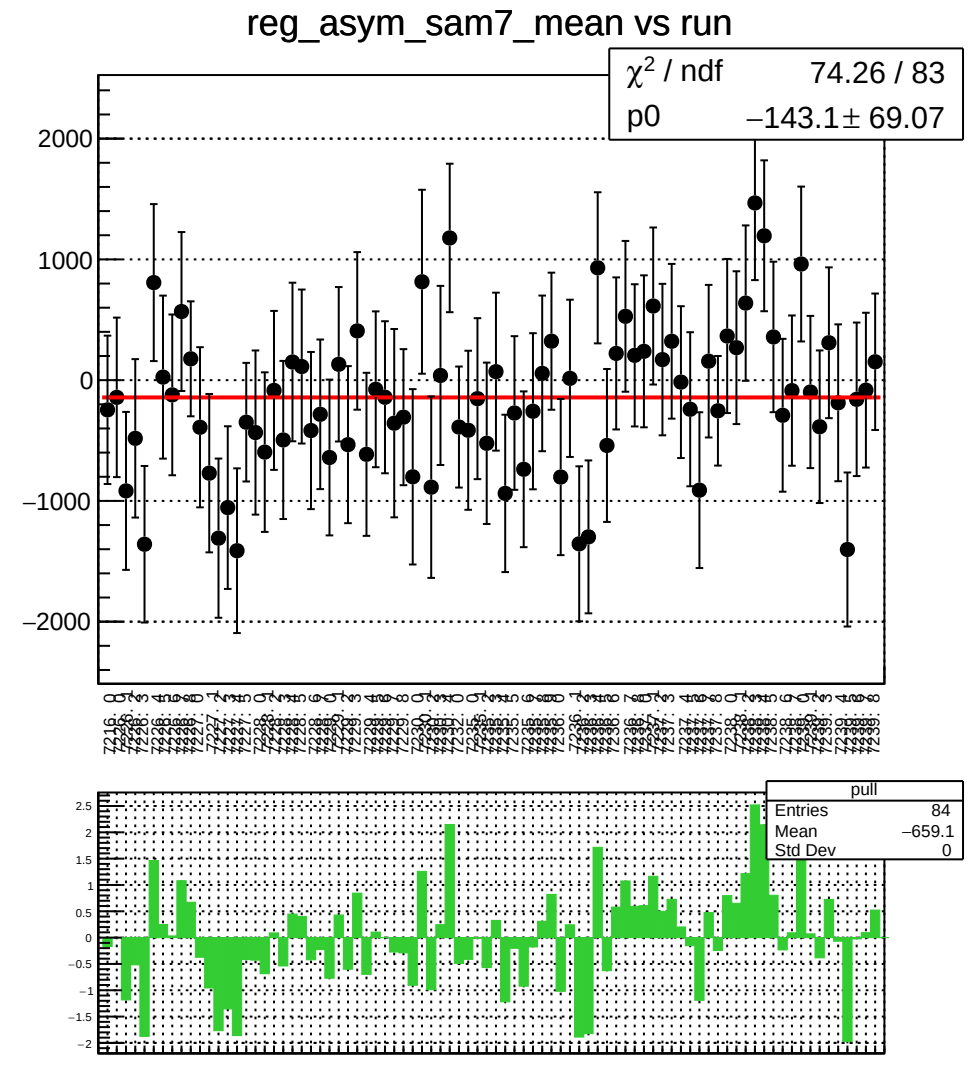

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.132e+04 / 83
p0 62.56 ± 0.04953
90
80
70
60
50

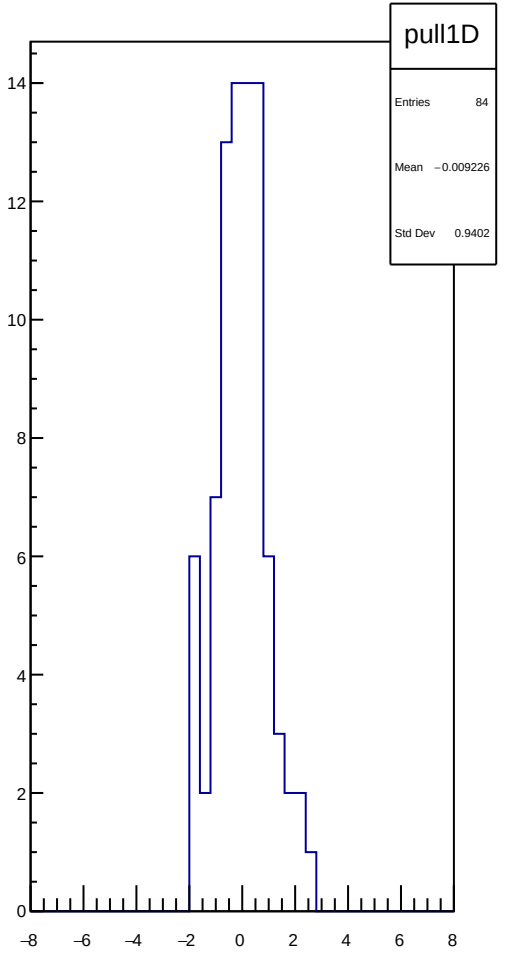

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.26 / 83
p0 0.02182 ± 0.07005
pull
Entries 84
Mean 2871
Std Dev 0
pull1D
Entries 84
Mean −0.0004795
Std Dev 1.007

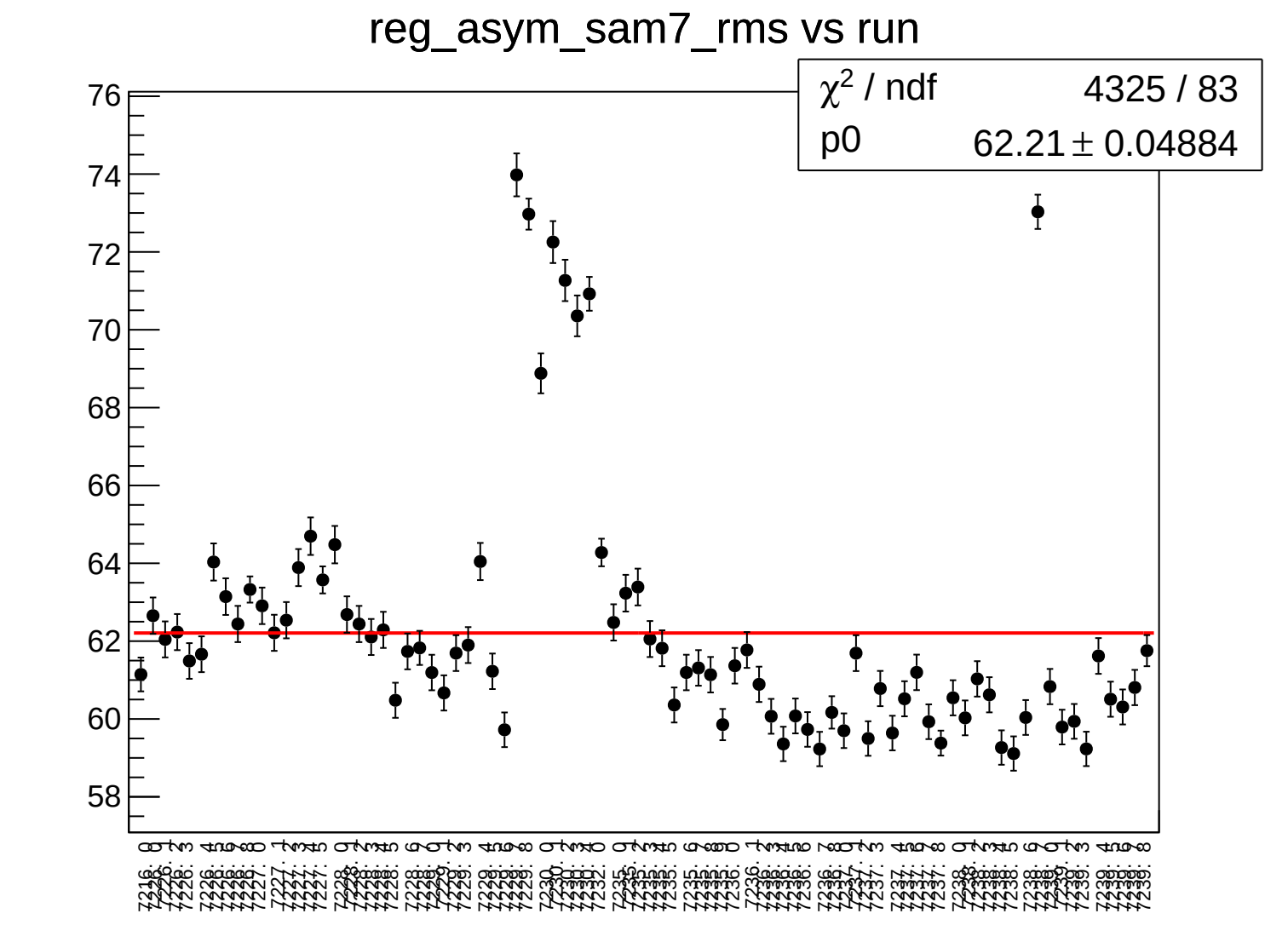

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.132e+04 / 83
p0 62.56 ± 0.04953
90
80
70
60
50

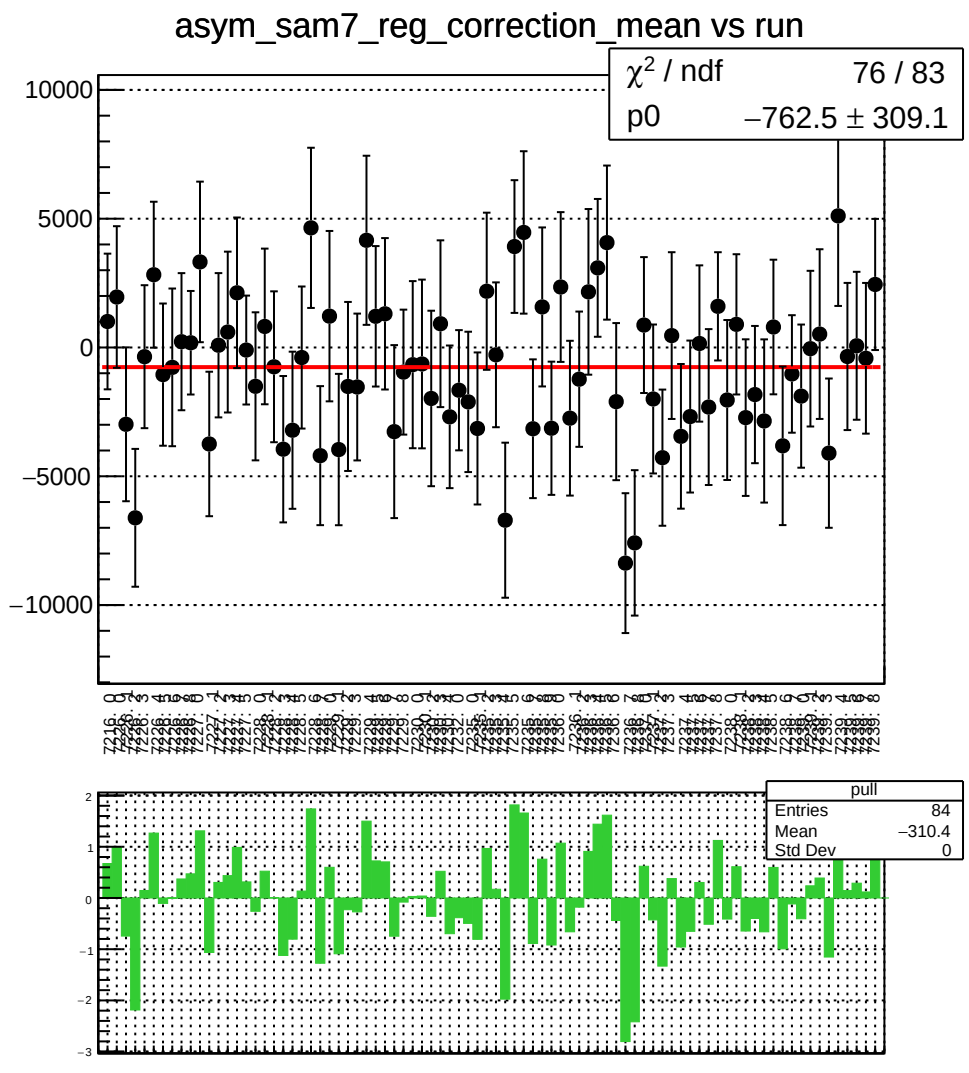

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.36 / 83
p0 −1.737e−14 ± 2.52e−14
pull
Entries 84
Mean 91.66
Std Dev 0
pull1D
Entries 84
Mean −0.0158
Std Dev 0.9719

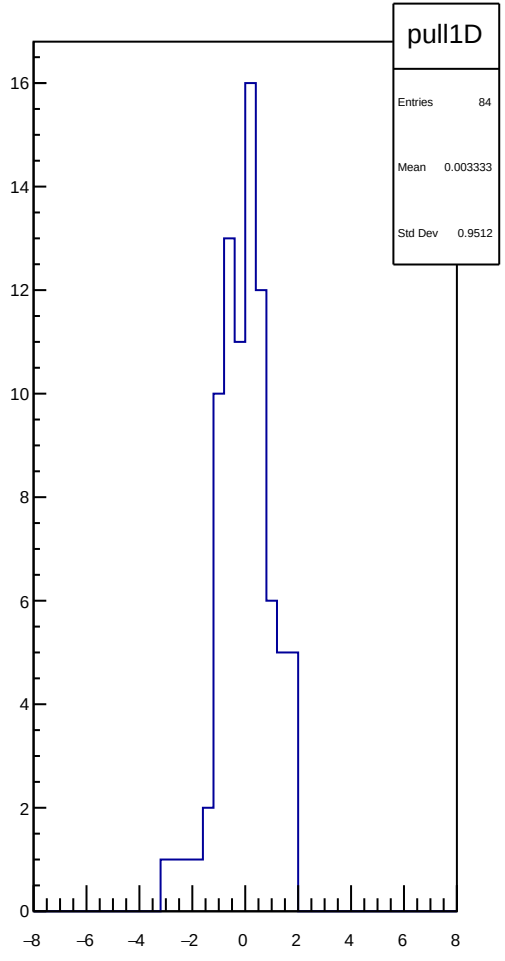

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
90
80
70
60
50
40
30
20
10
χ² / ndf 4.713e+05 / 83
p0 1.915e−11 ± 1.782e−14

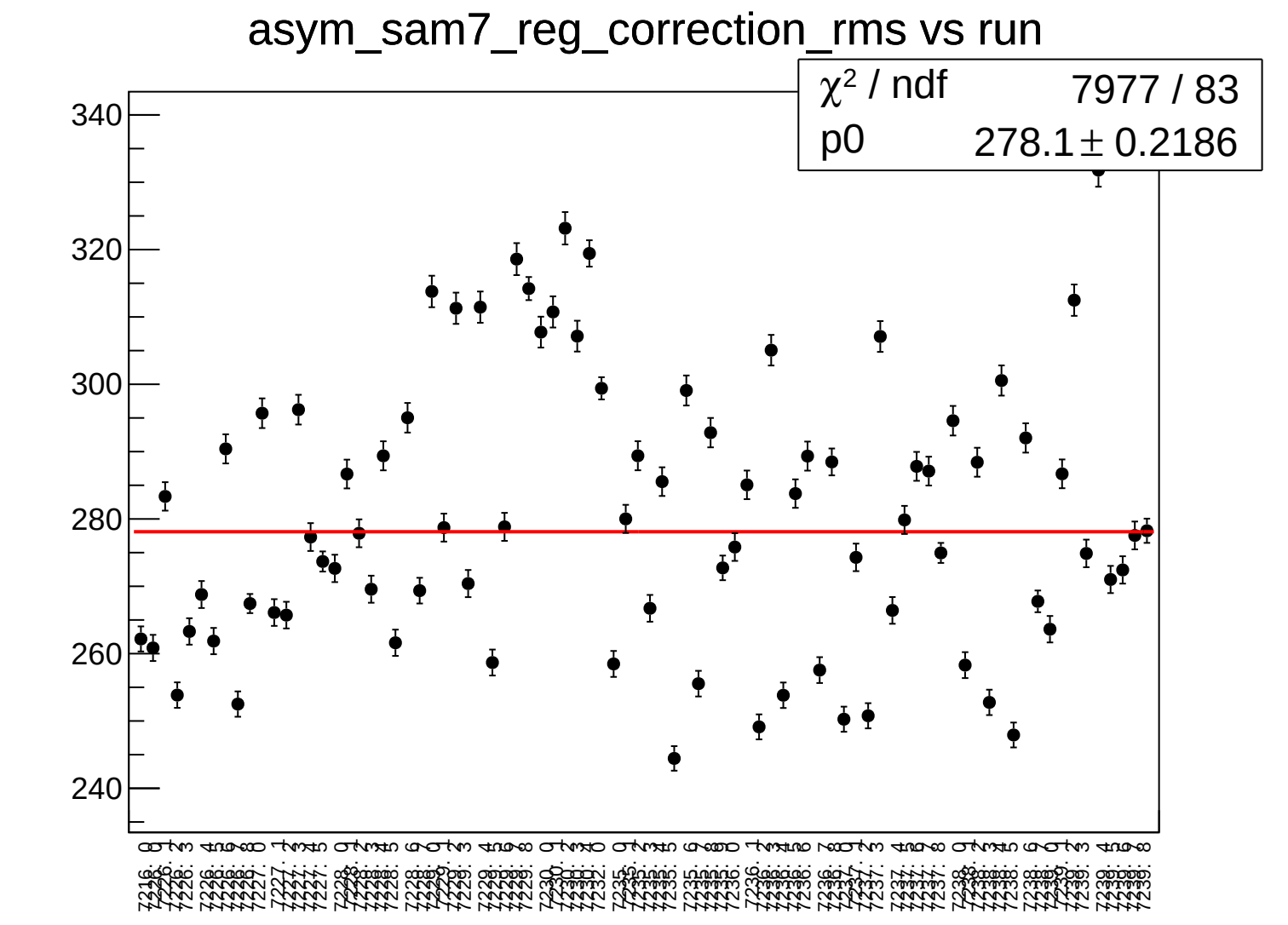

reg_asym_sam7_mean vs run
χ² / ndf 74.26 / 83
p0 −143.1± 69.07
2000
1000
0
−1000
−2000
pull
Entries 84
Mean −659.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

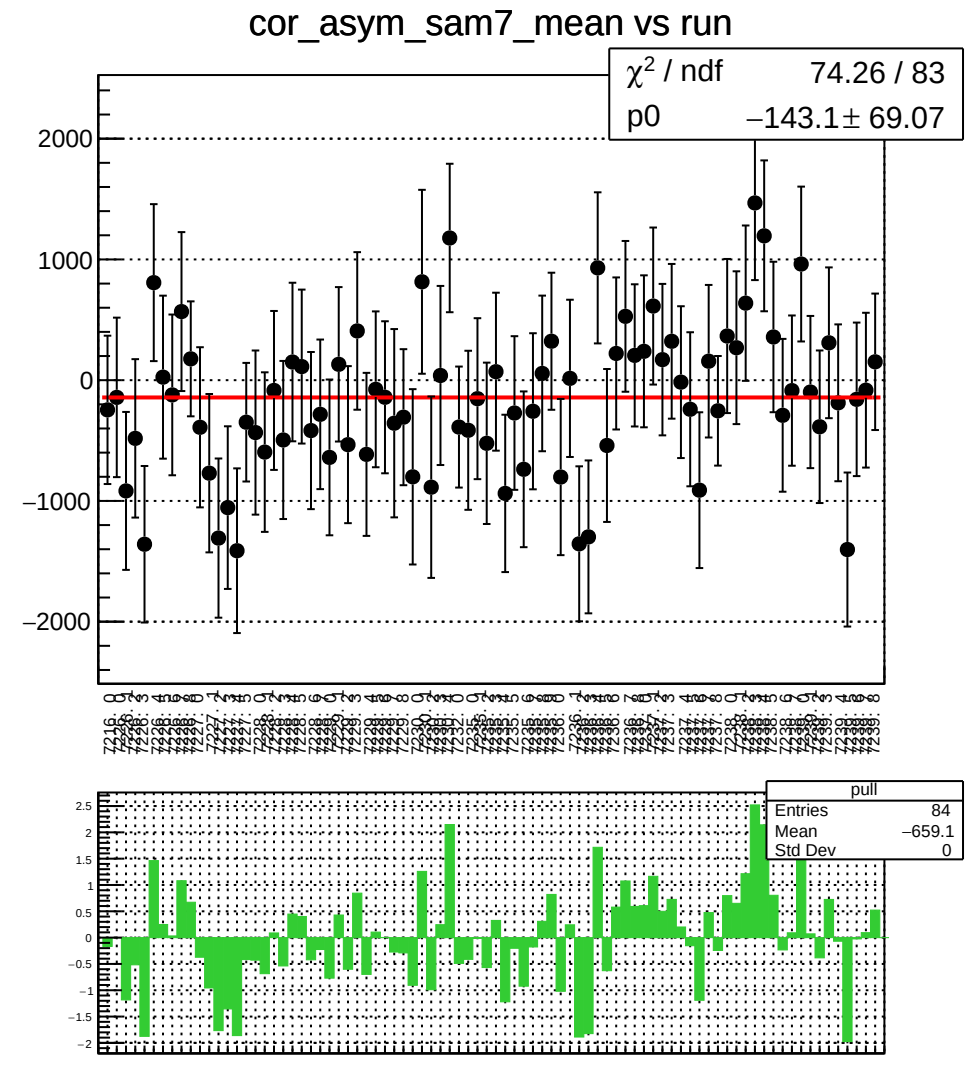

pull1D
Entries 84
Mean −0.009226
Std Dev 0.9402
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

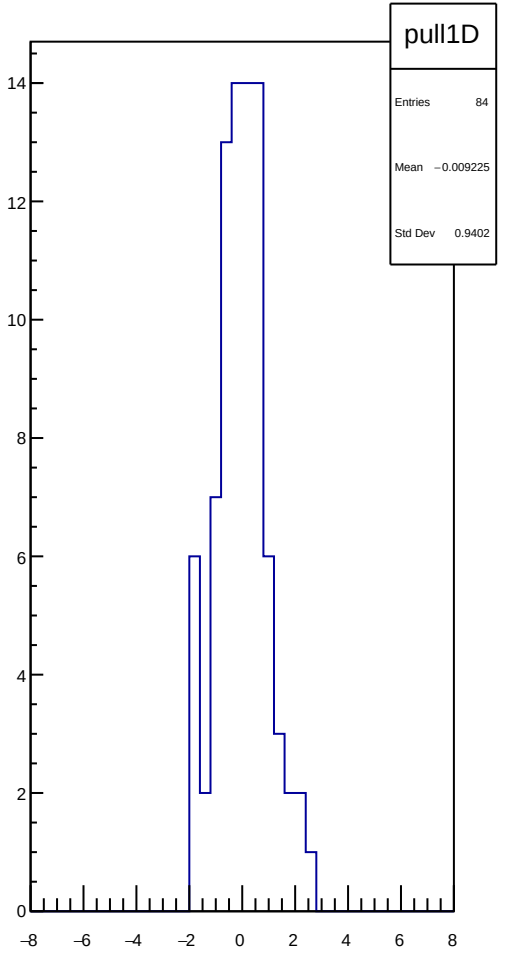

reg_asym_sam7_rms vs run
χ^2 / ndf 4325 / 83
p0 62.21 ± 0.04884
76
74
72
70
68
66
64
62
60
58

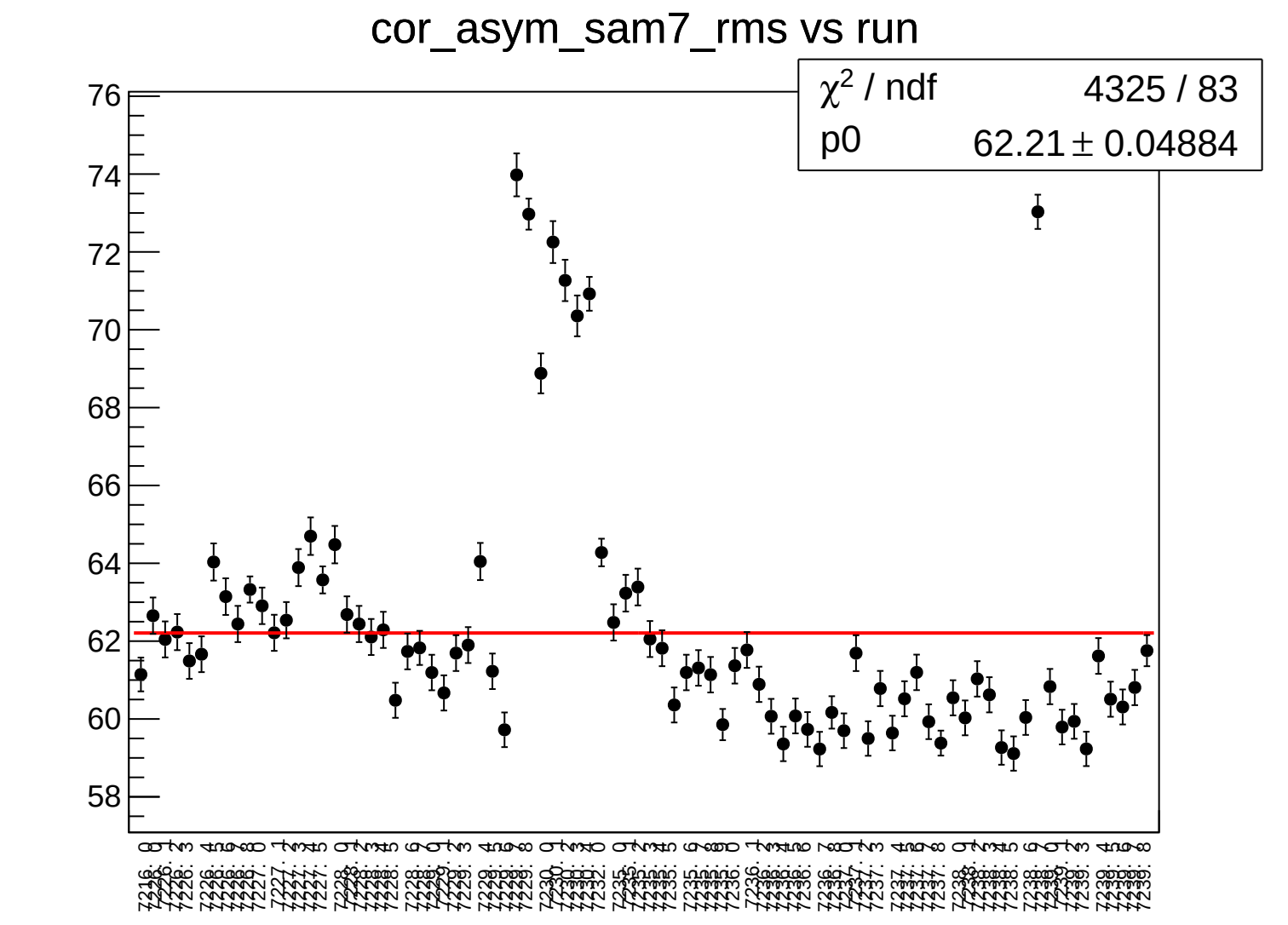

asym_sam7_reg_correction_mean vs run
χ² / ndf 76 / 83
p0 −762.5 ± 309.1
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −310.4
Std Dev 0
2
1
0
−1
−2
−3

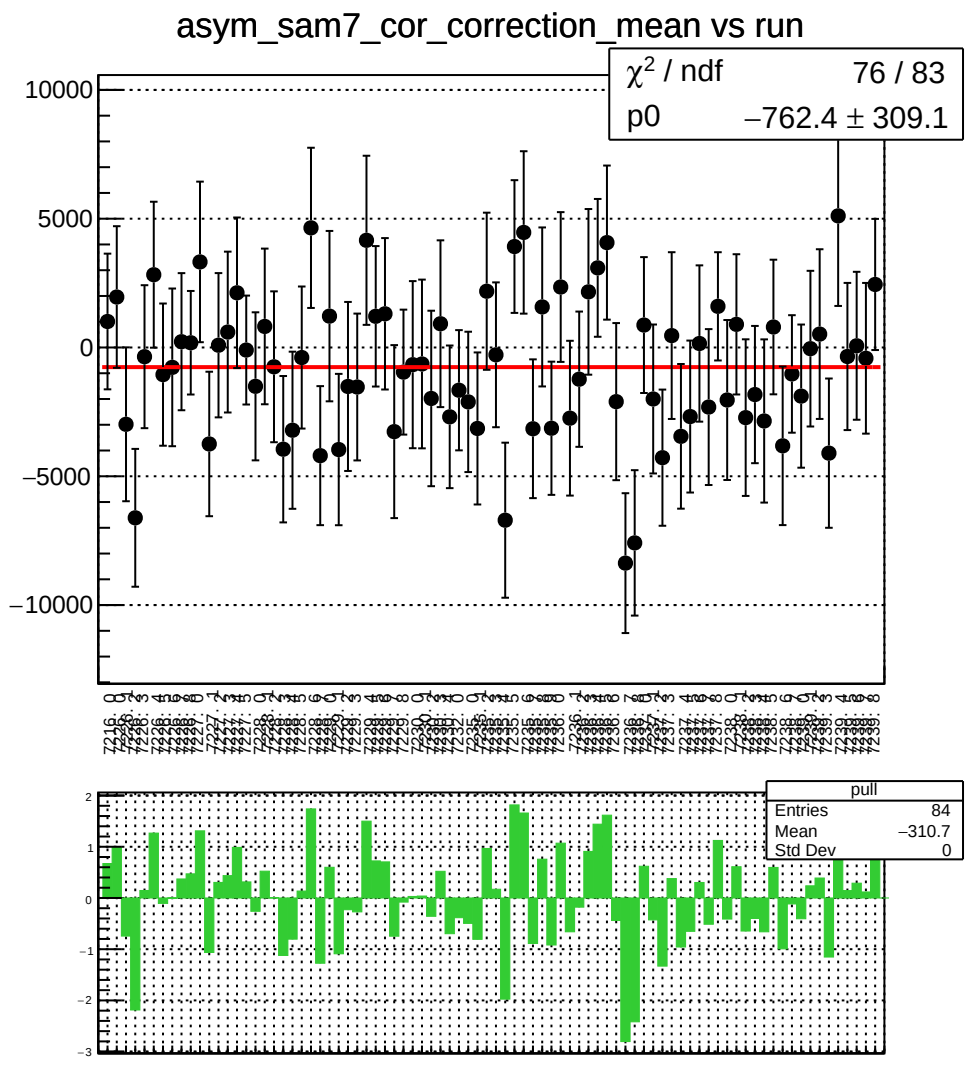

pull1D
Entries 84
Mean 0.003333
Std Dev 0.9512
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

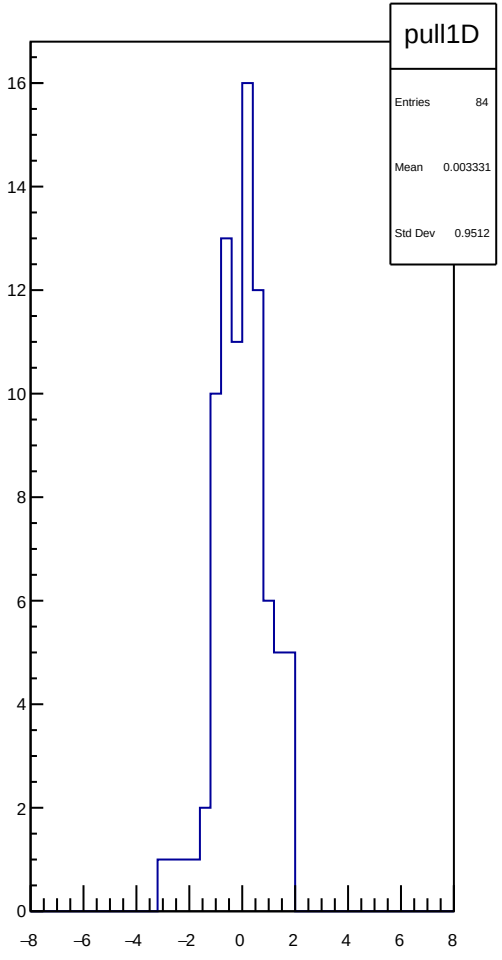

asym_sam7_reg_correction_rms vs run
χ² / ndf 7977 / 83
p0 278.1 ± 0.2186
340
320
300
280
260
240

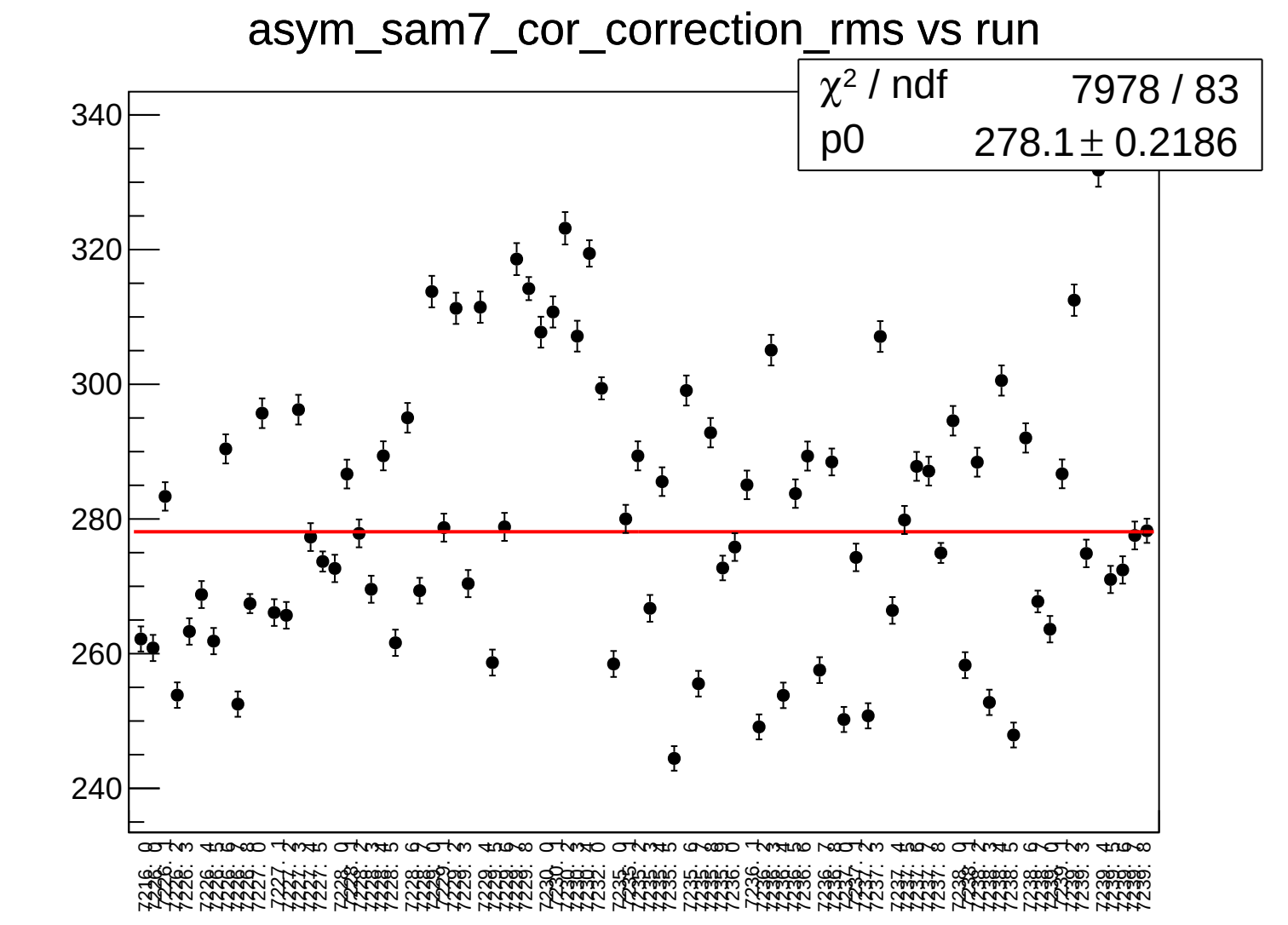

cor_asym_sam7_mean vs run
χ² / ndf 74.26 / 83
p0 −143.1± 69.07
2000
1000
0
−1000
−2000
pull
Entries 84
Mean −659.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

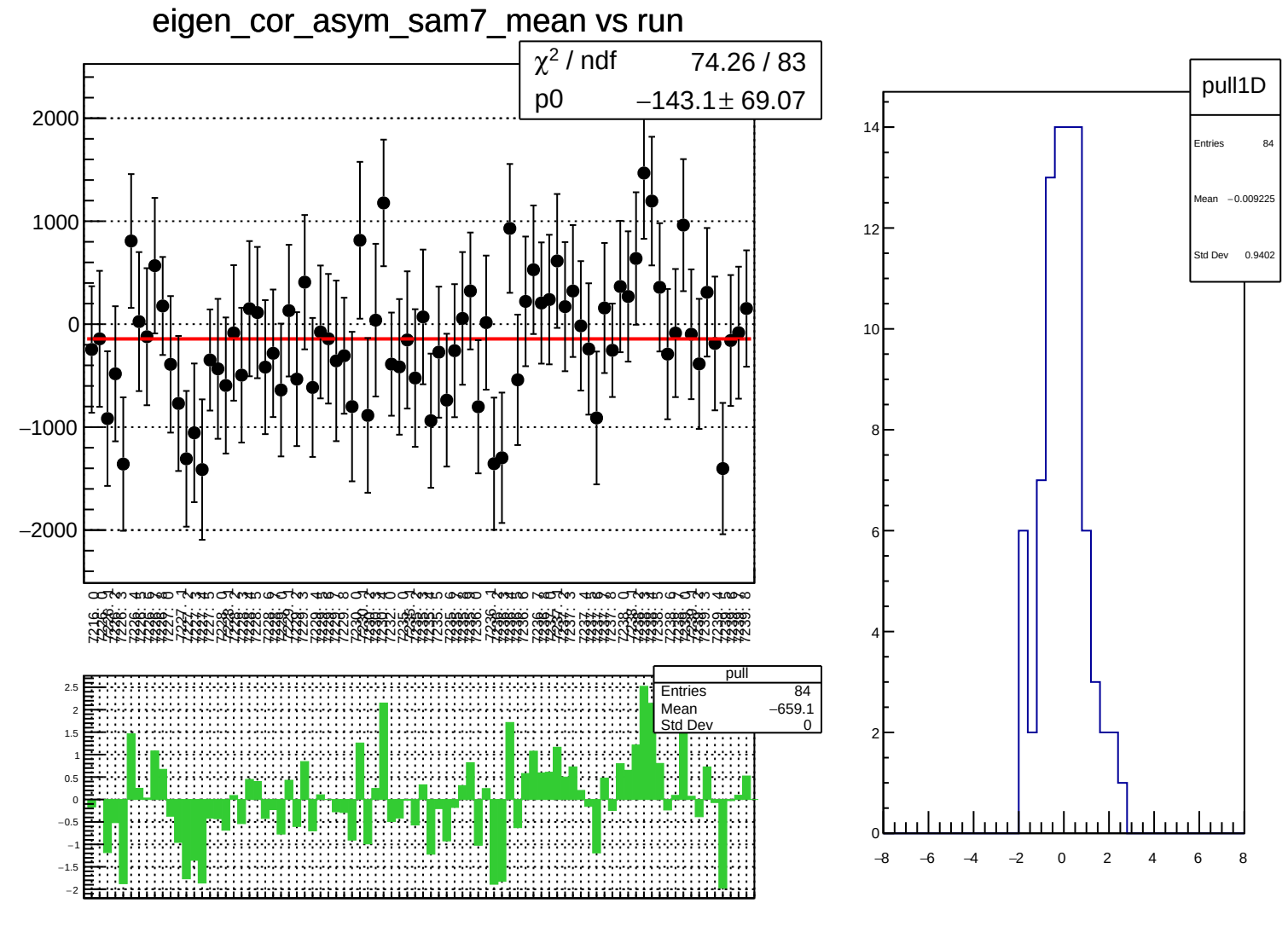

pull1D
Entries 84
Mean −0.009225
Std Dev 0.9402
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

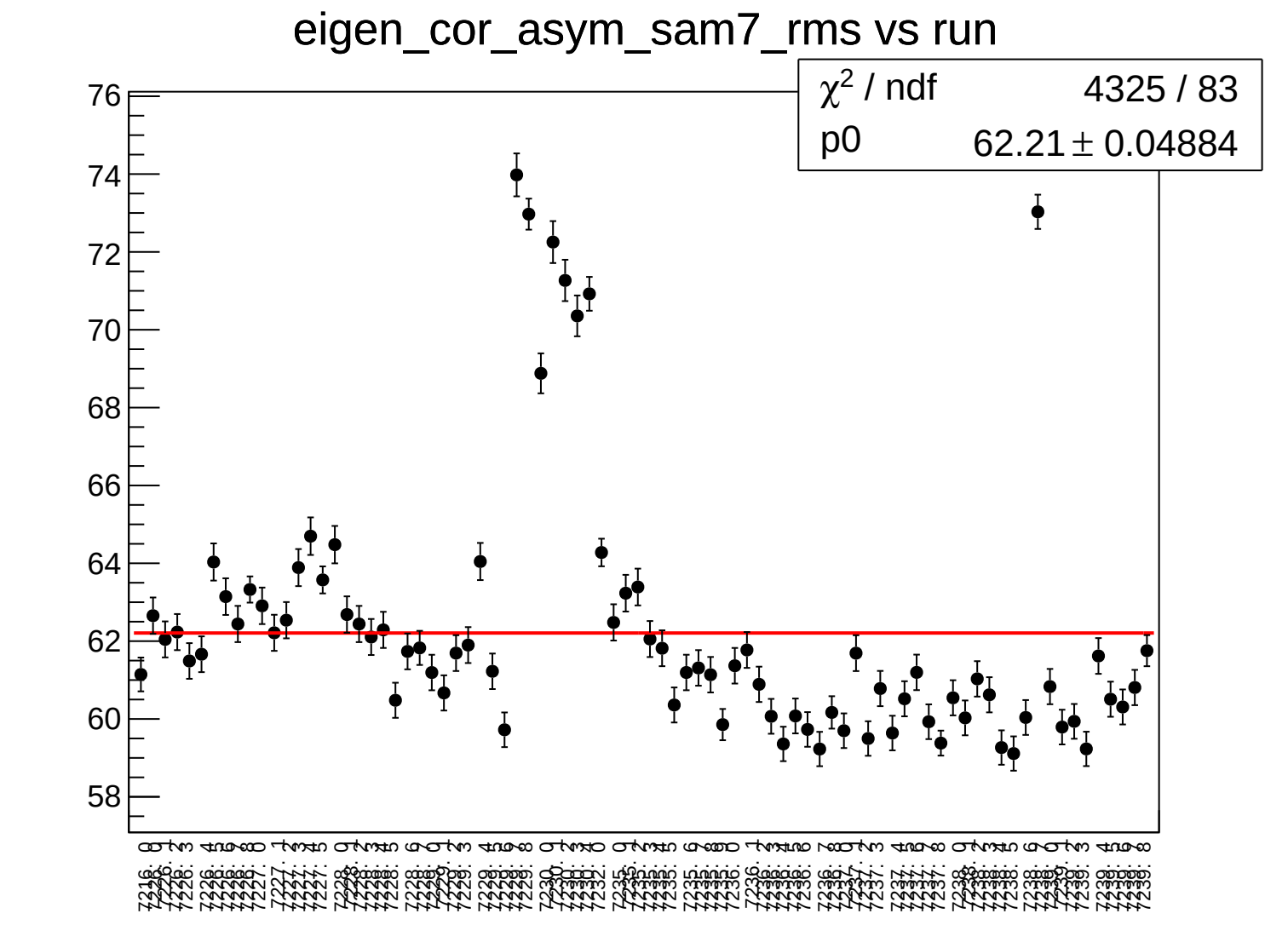

cor_asym_sam7_rms vs run
χ² / ndf 4325 / 83
p0 62.21 ± 0.04884
76
74
72
70
68
66
64
62
60
58

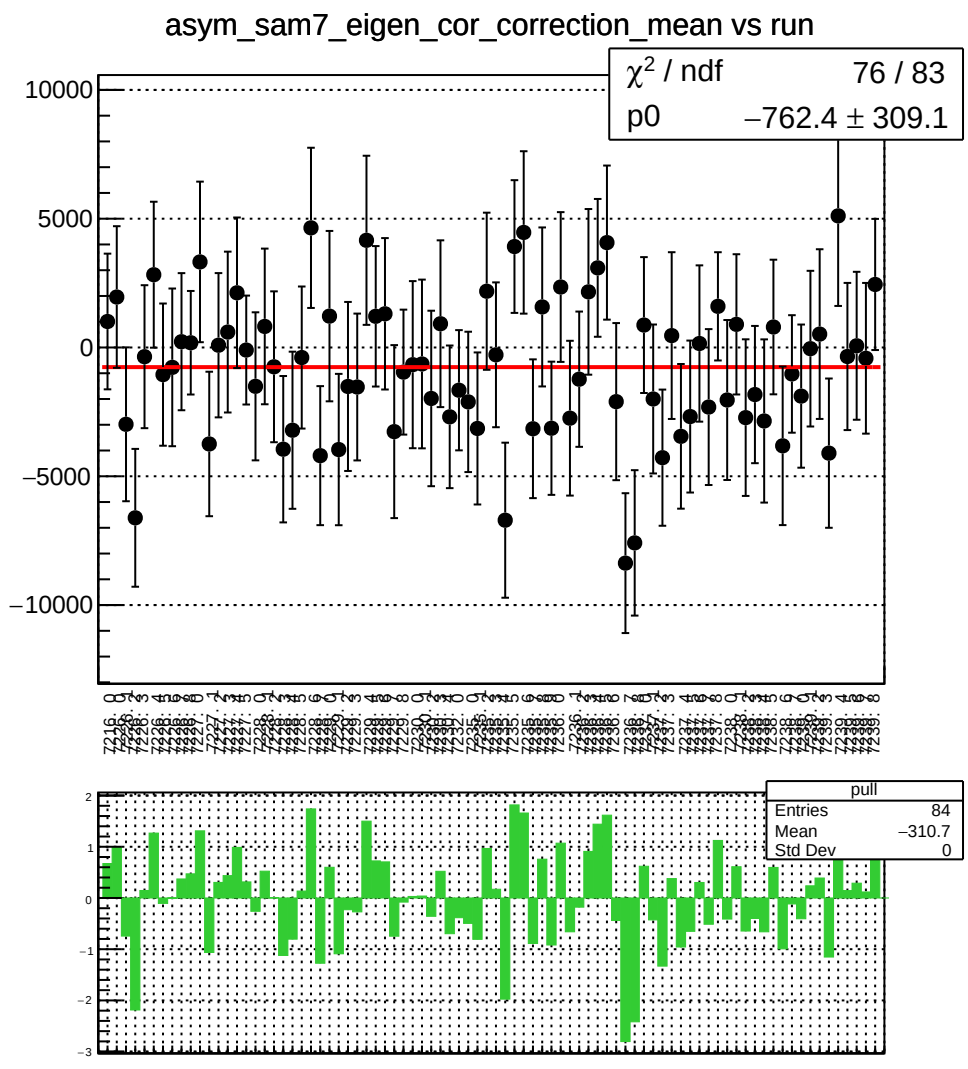

asym_sam7_cor_correction_mean vs run
χ² / ndf 76 / 83
p0 −762.4 ± 309.1
pull
Entries 84
Mean −310.7
Std Dev 0

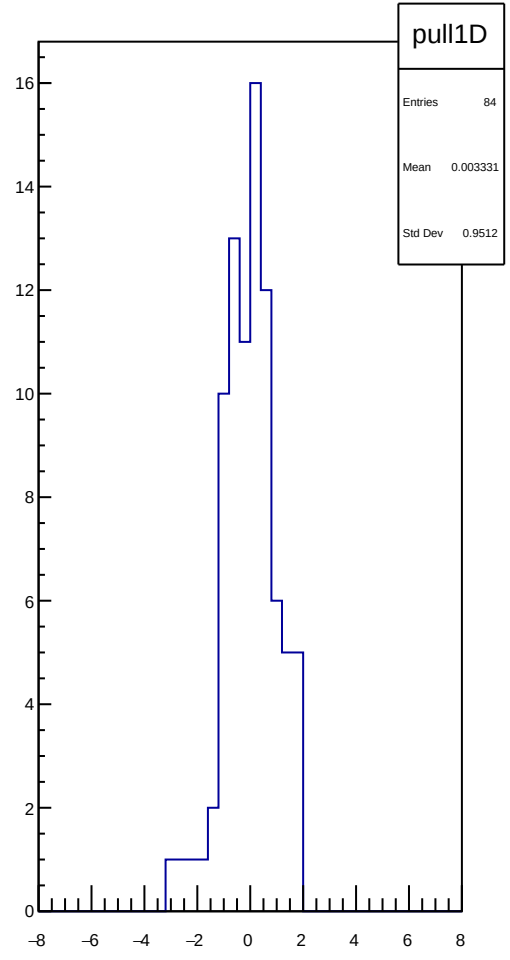

pull1D
Entries 84
Mean 0.003331
Std Dev 0.9512

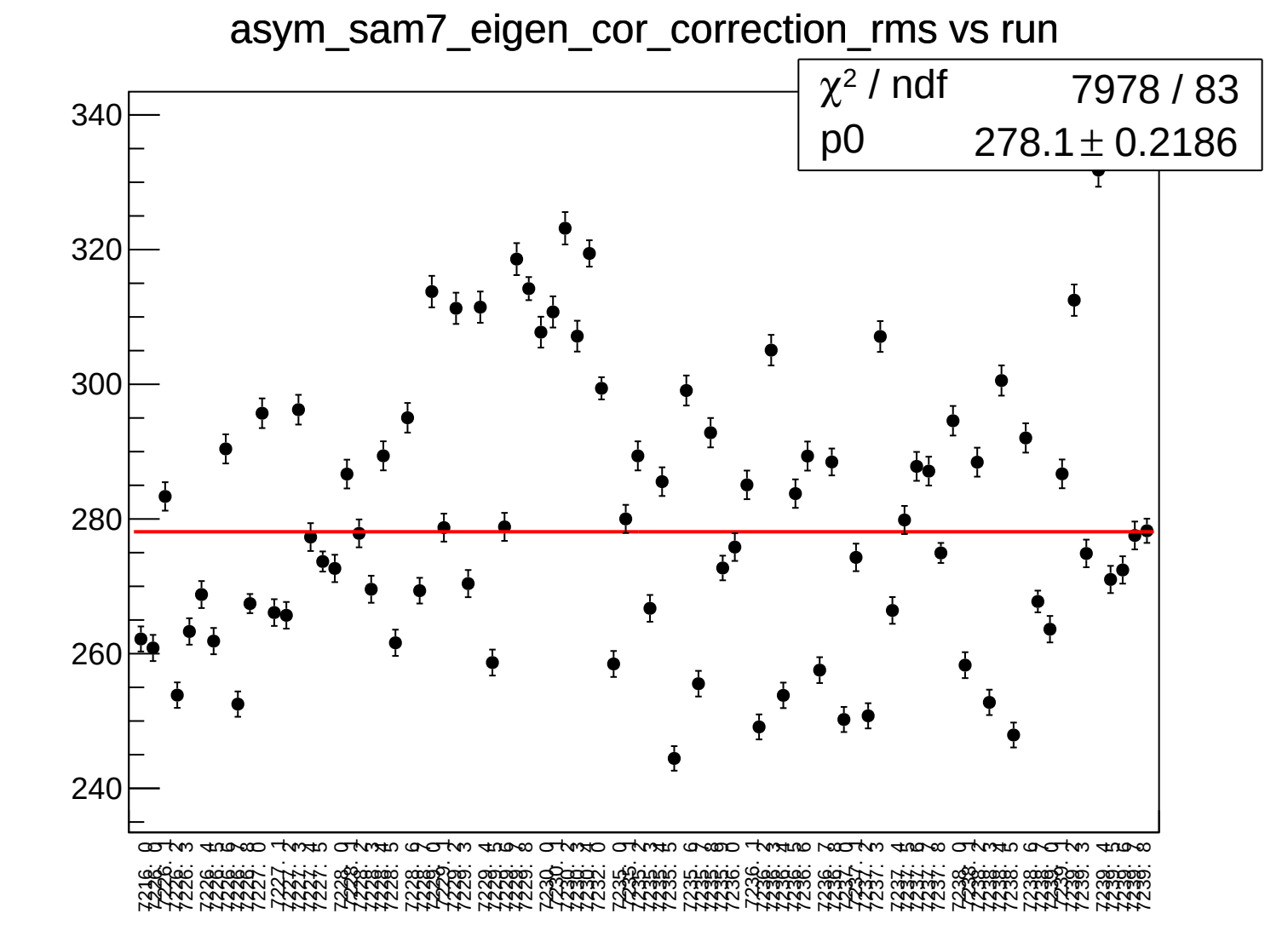

asym_sam7_cor_correction_rms vs run
χ² / ndf 7978 / 83
p0 278.1 ± 0.2186
340
320
300
280
260
240

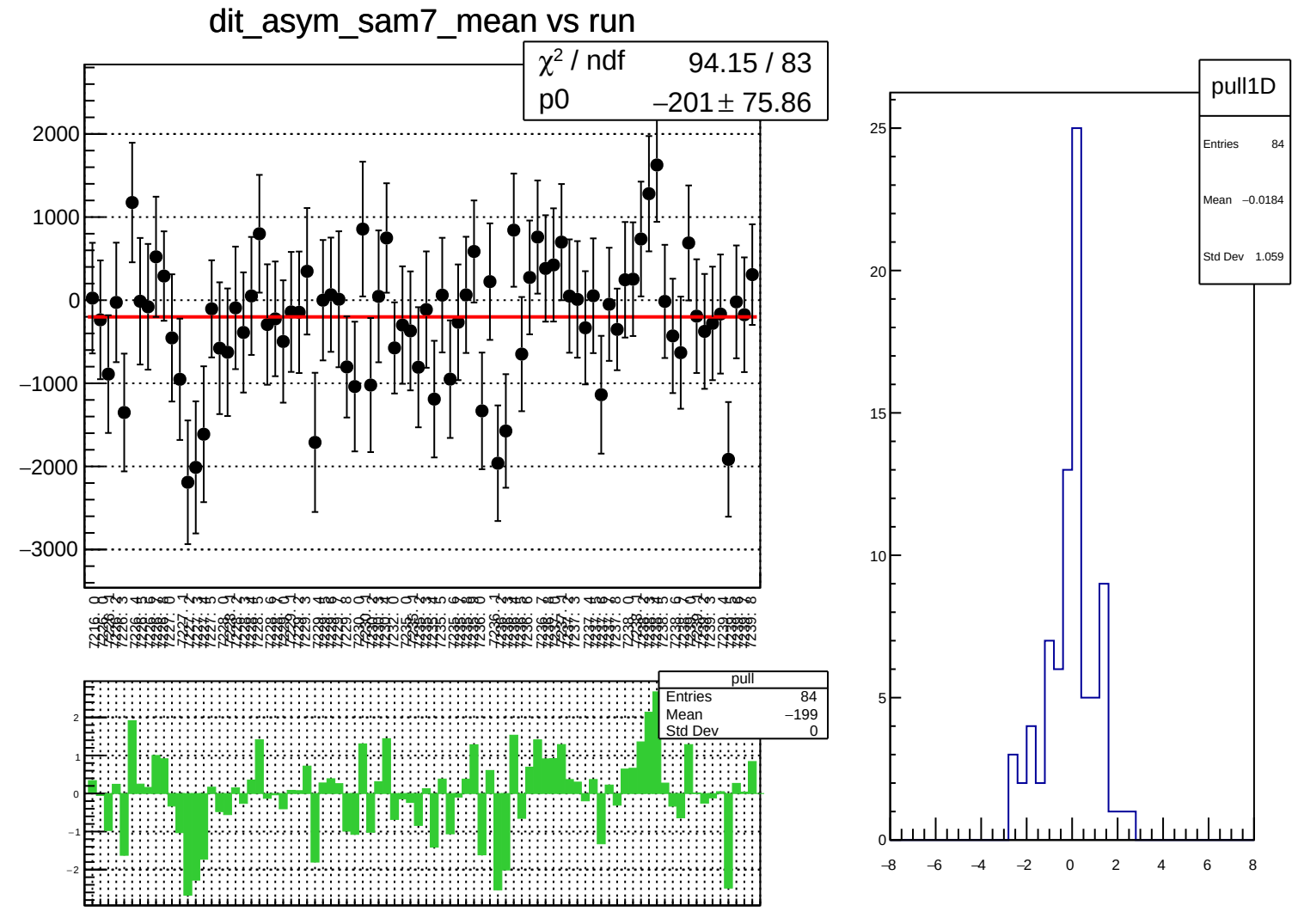

eigen_cor_asym_sam7_mean vs run
χ² / ndf 74.26 / 83
p0 −143.1± 69.07
2000
1000
0
−1000
−2000
pull
Entries 84
Mean −659.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 84
Mean −0.009225
Std Dev 0.9402
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

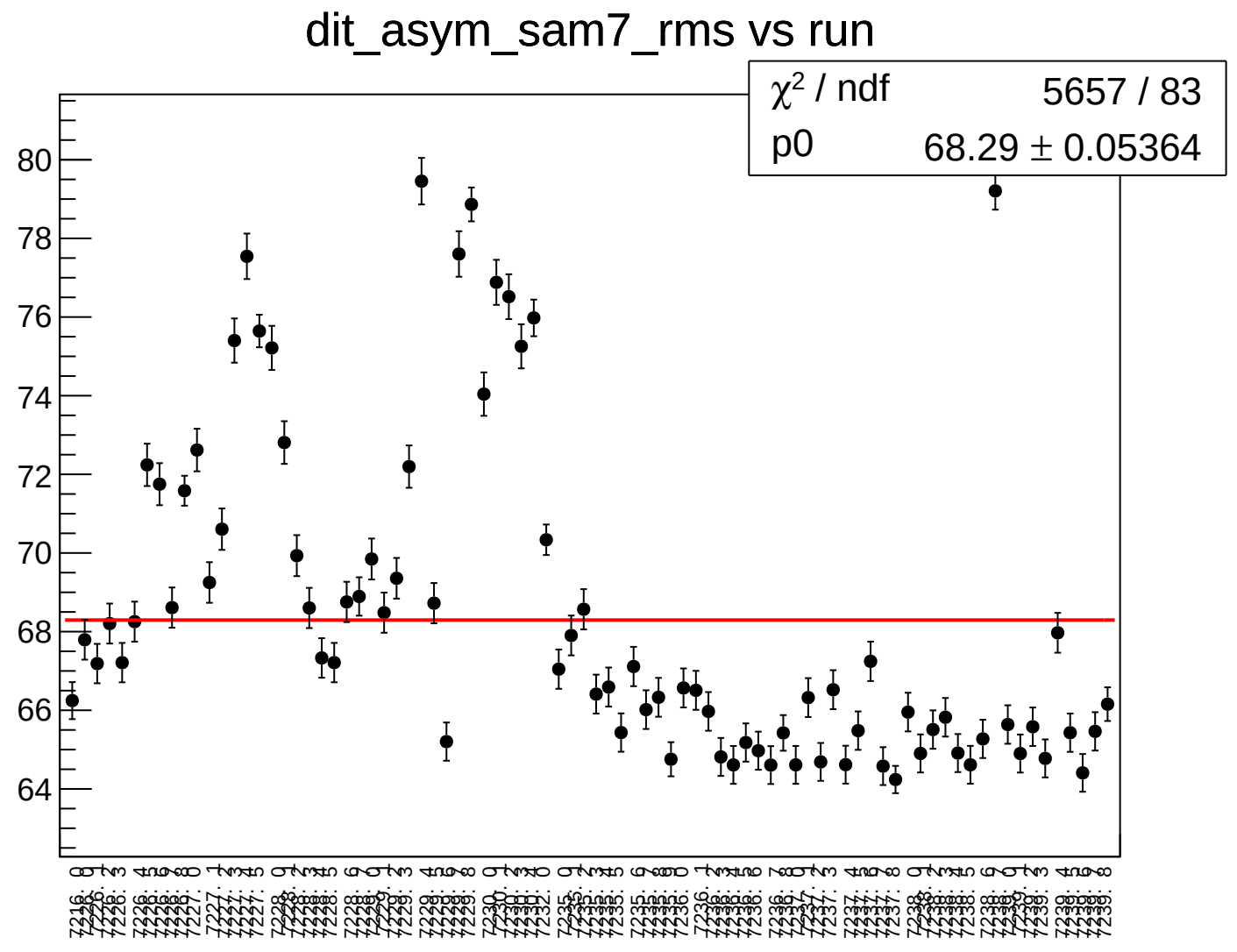

eigen_cor_asym_sam7_rms vs run
χ^2 / ndf 4325 / 83
p0 62.21 ± 0.04884
76
74
72
70
68
66
64
62
60
58

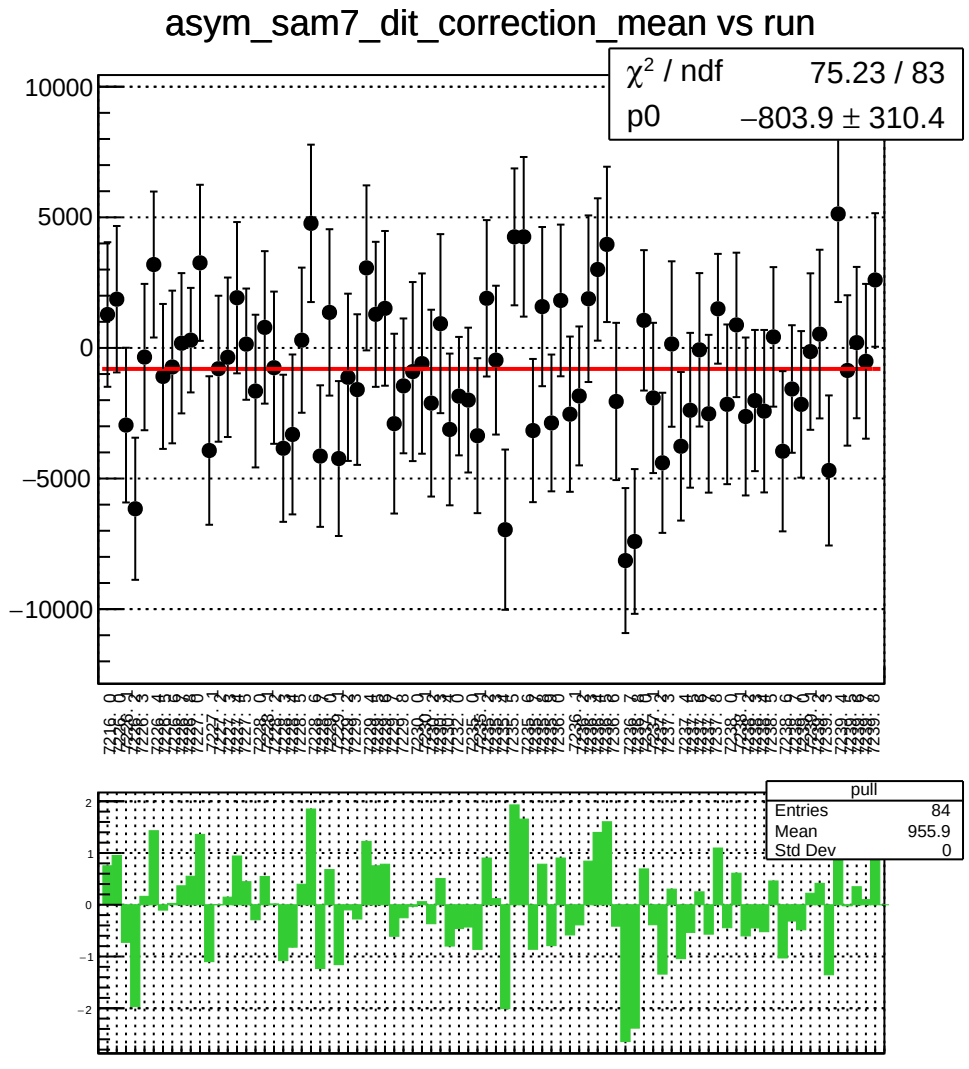

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 76 / 83
p0 −762.4 ± 309.1
pull
Entries 84
Mean −310.7
Std Dev 0

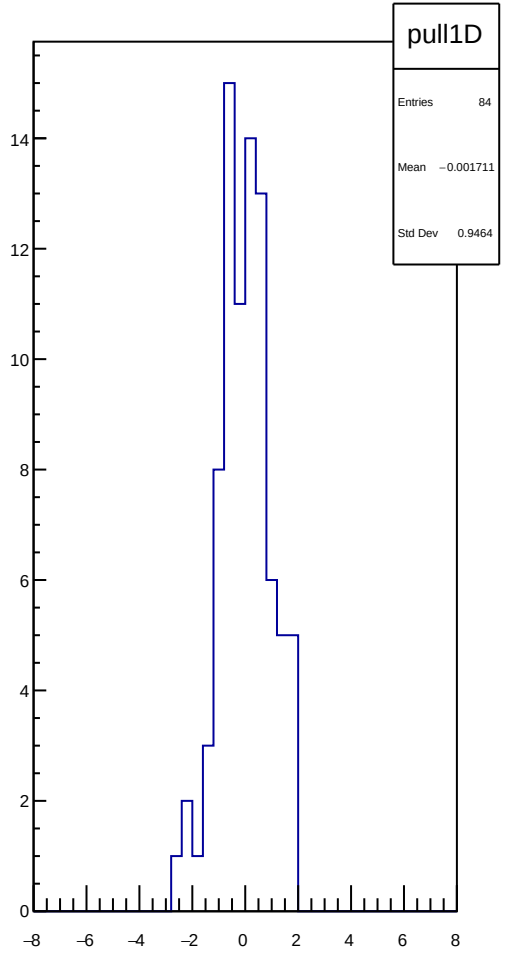

pull1D
Entries 84
Mean 0.003331
Std Dev 0.9512

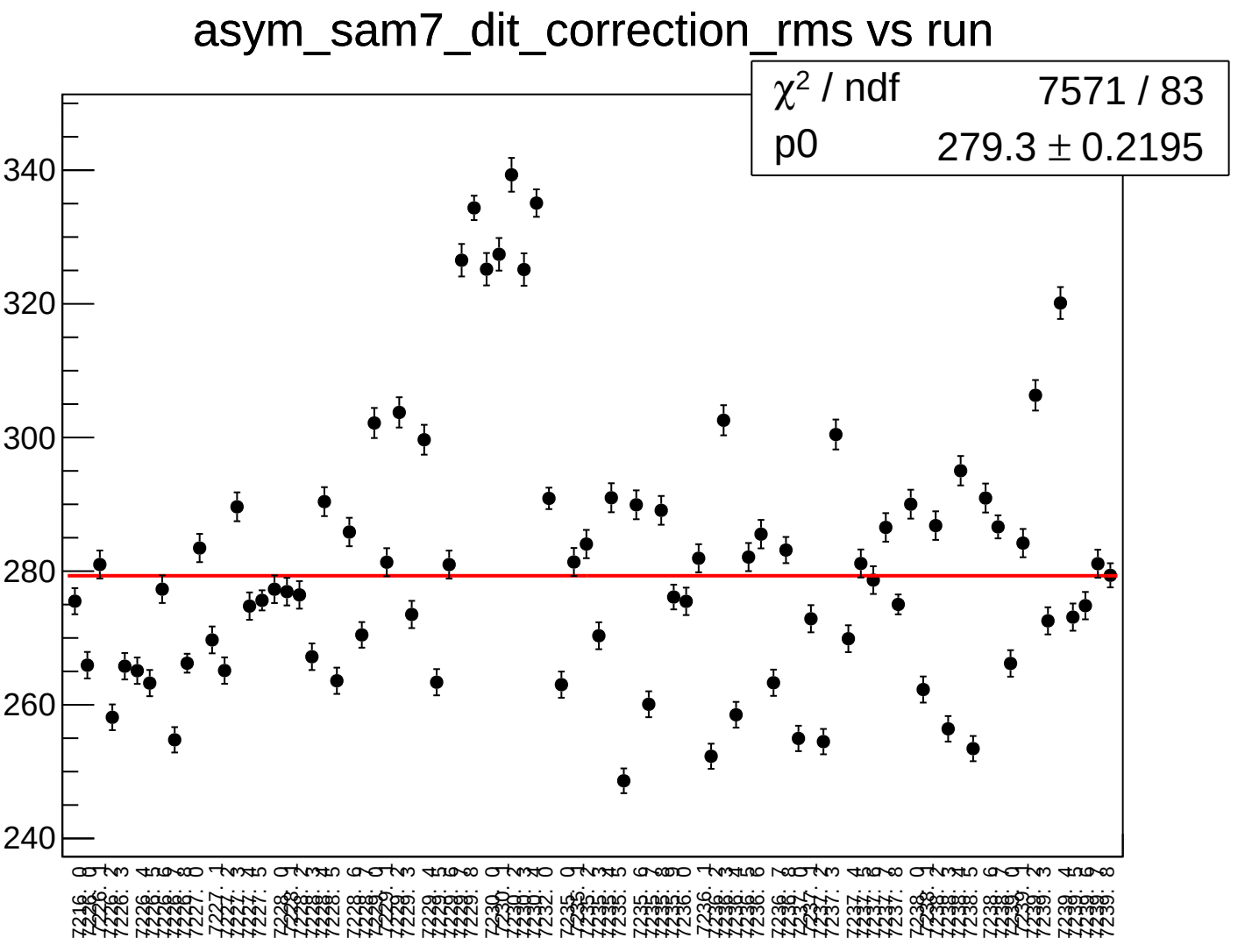

asym_sam7_eigen_cor_correction_rms vs run
χ² / ndf 7978 / 83
p0 278.1 ± 0.2186
340
320
300
280
260
240

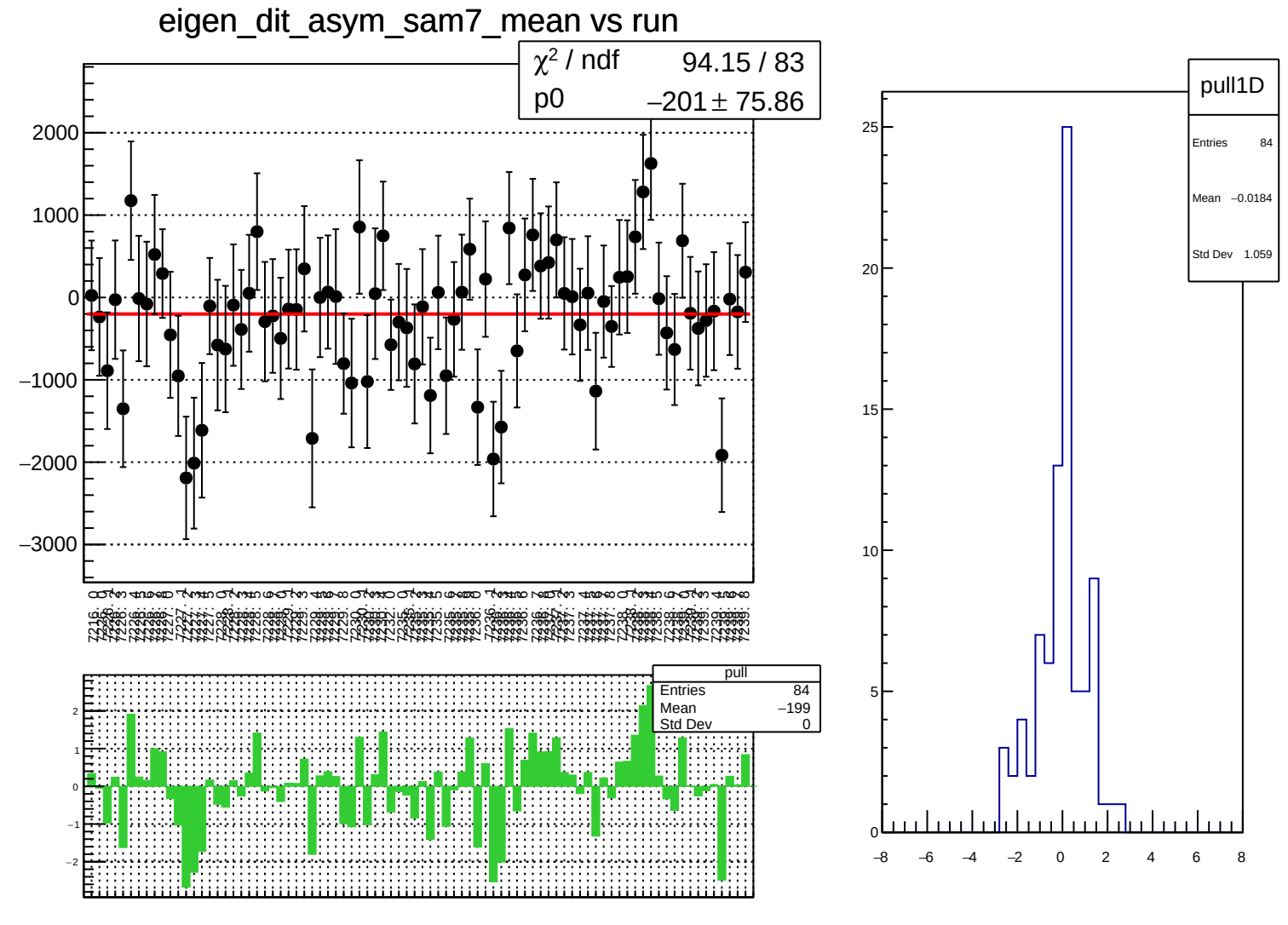

dit_asym_sam7_mean vs run
χ² / ndf 94.15 / 83
p0 −201 ± 75.86
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean −199
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.0184
Std Dev 1.059
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

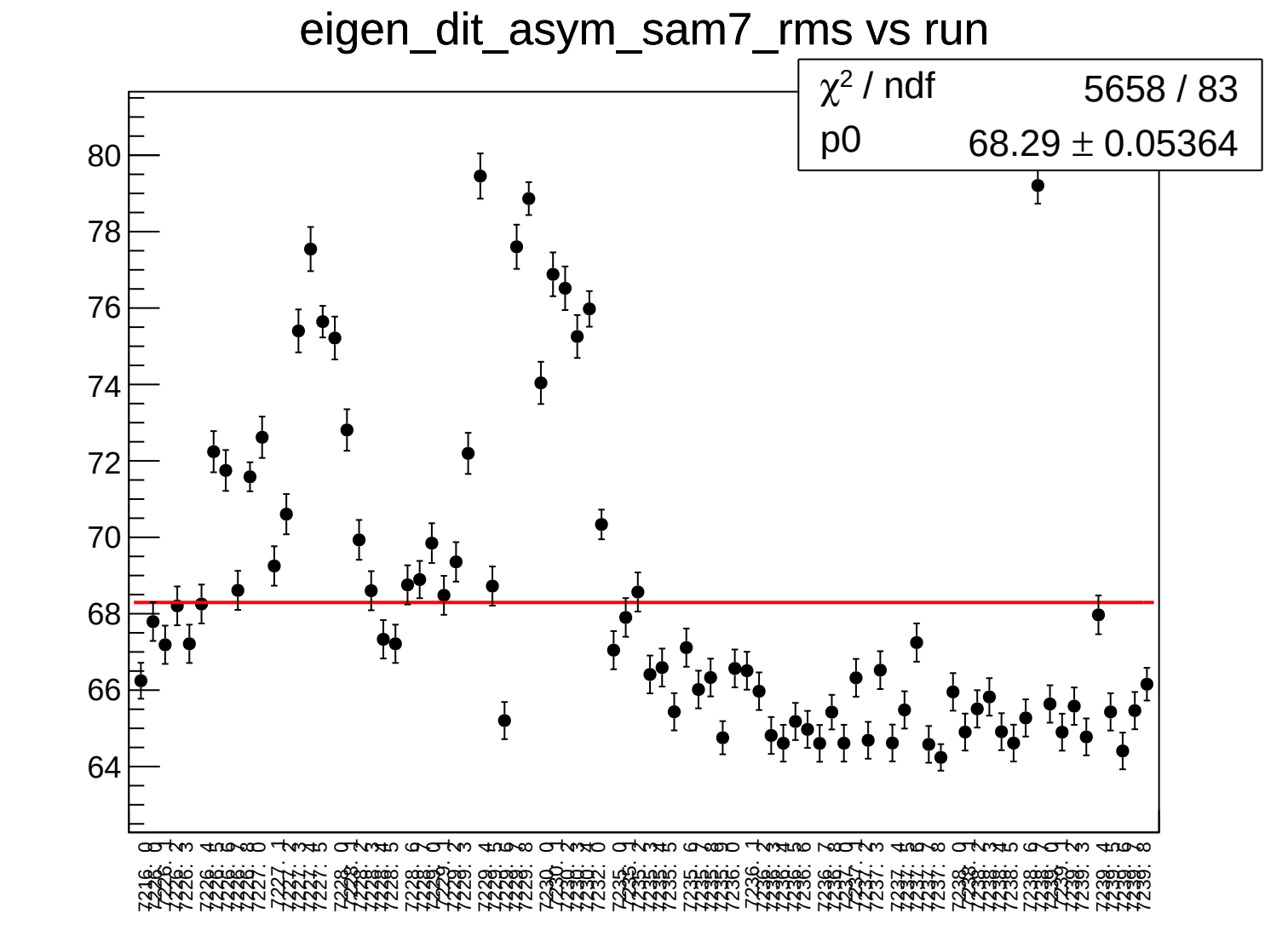

dit_asym_sam7_rms vs run
χ² / ndf 5657 / 83
p0 68.29 ± 0.05364
80
78
76
74
72
70
68
66
64

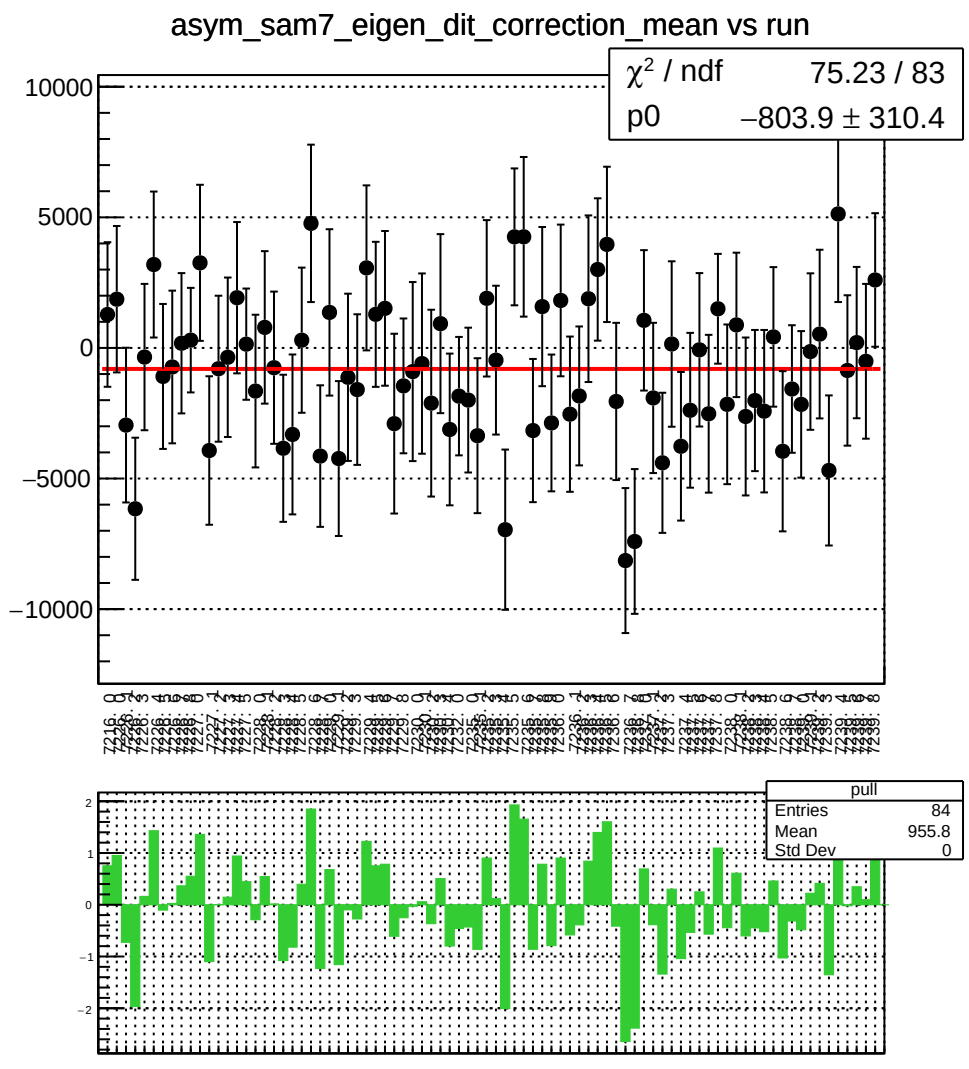

asym_sam7_dit_correction_mean vs run
χ² / ndf 75.23 / 83
p0 −803.9 ± 310.4
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 955.9
Std Dev 0
2
1
0
−1
−2

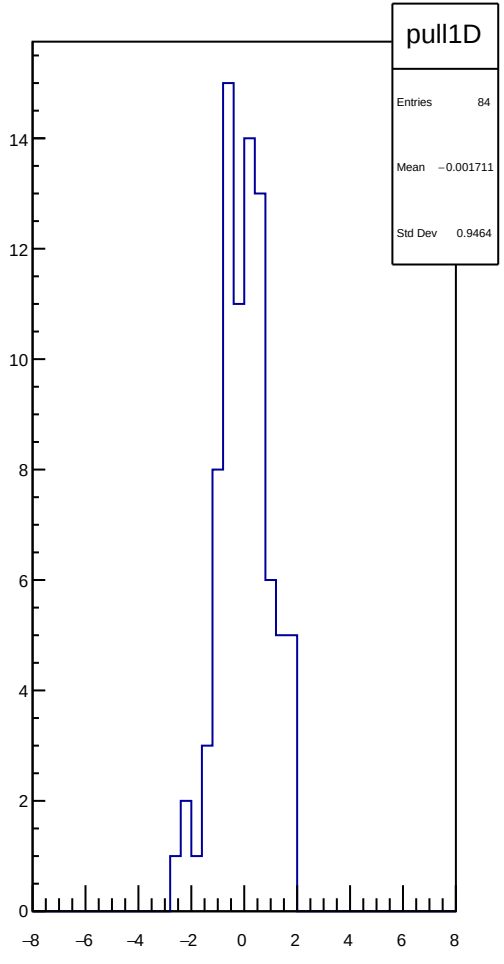

pull1D
Entries 84
Mean −0.001711
Std Dev 0.9464
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

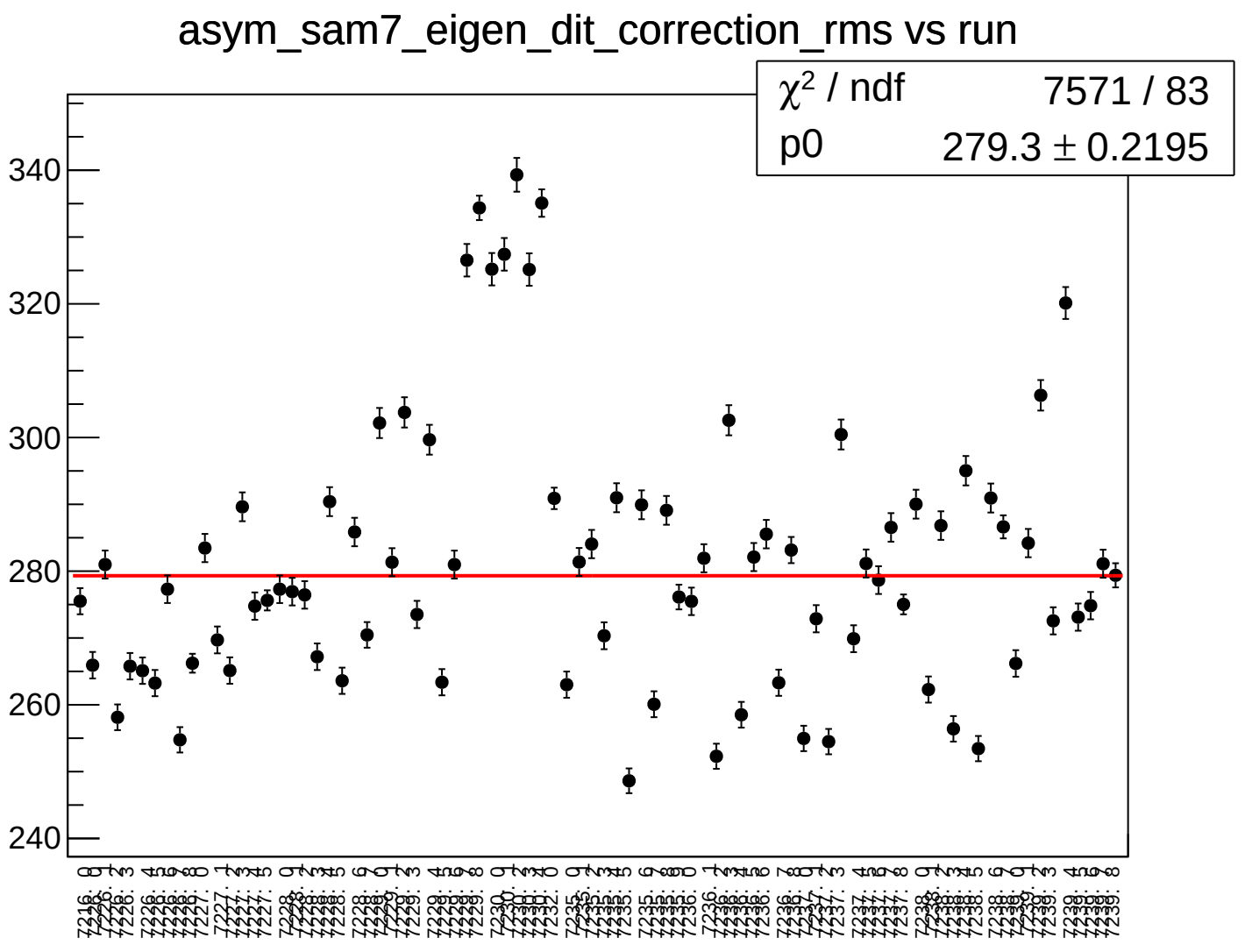

asym_sam7_dit_correction_rms vs run
χ² / ndf 7571 / 83
p0 279.3 ± 0.2195
340
320
300
280
260
240

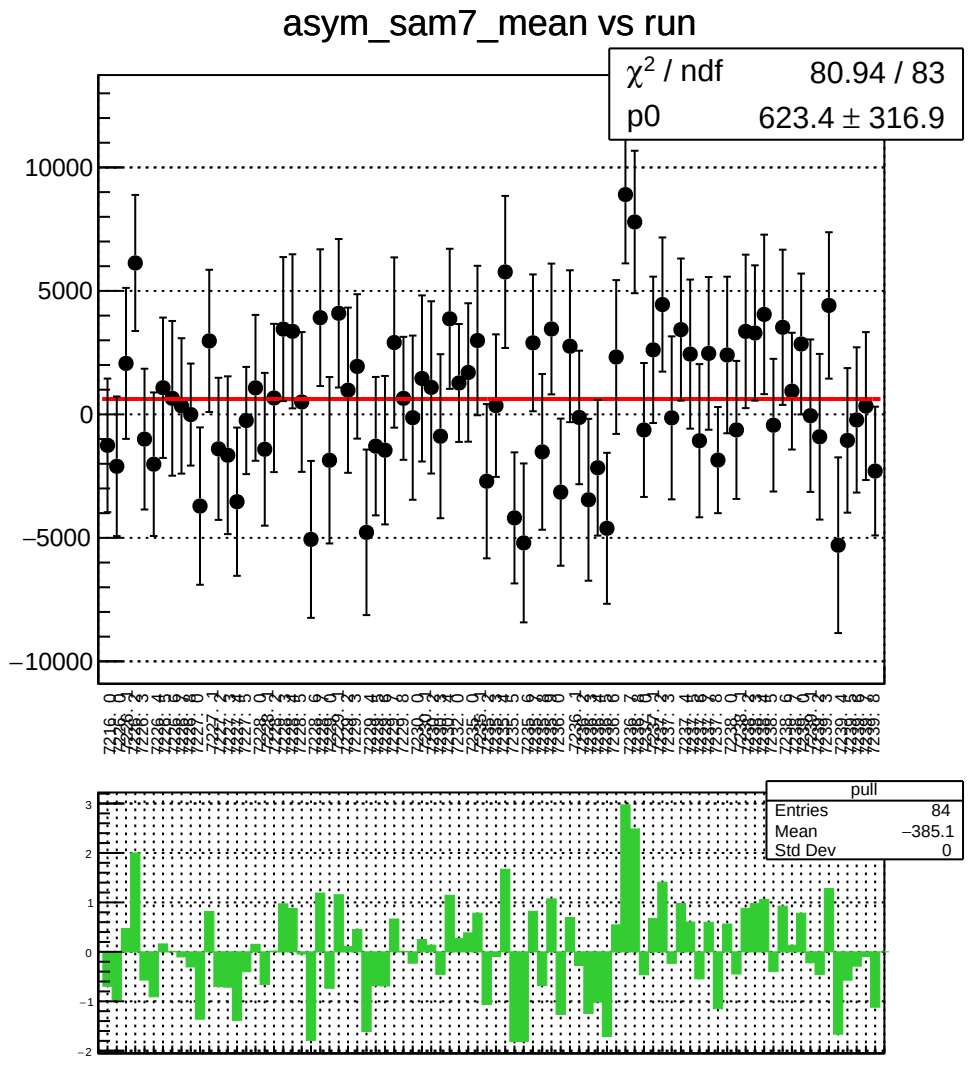

eigen_dit_asym_sam7_mean vs run
χ² / ndf 94.15 / 83
p0 −201 ± 75.86
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean −199
Std Dev 0
pull1D
Entries 84
Mean −0.0184
Std Dev 1.059
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

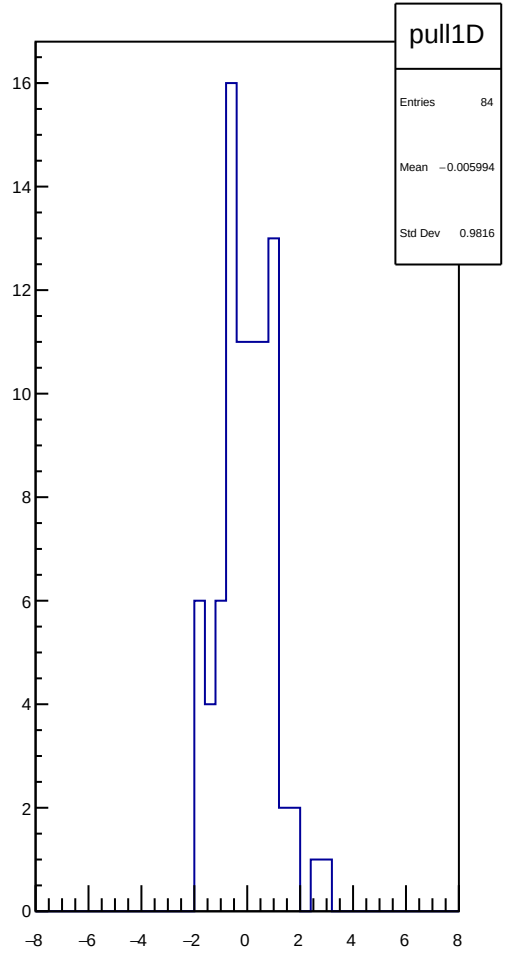

eigen_dit_asym_sam7_rms vs run
χ^2 / ndf 5658 / 83
p0 68.29 ± 0.05364
80
78
76
74
72
70
68
66
64

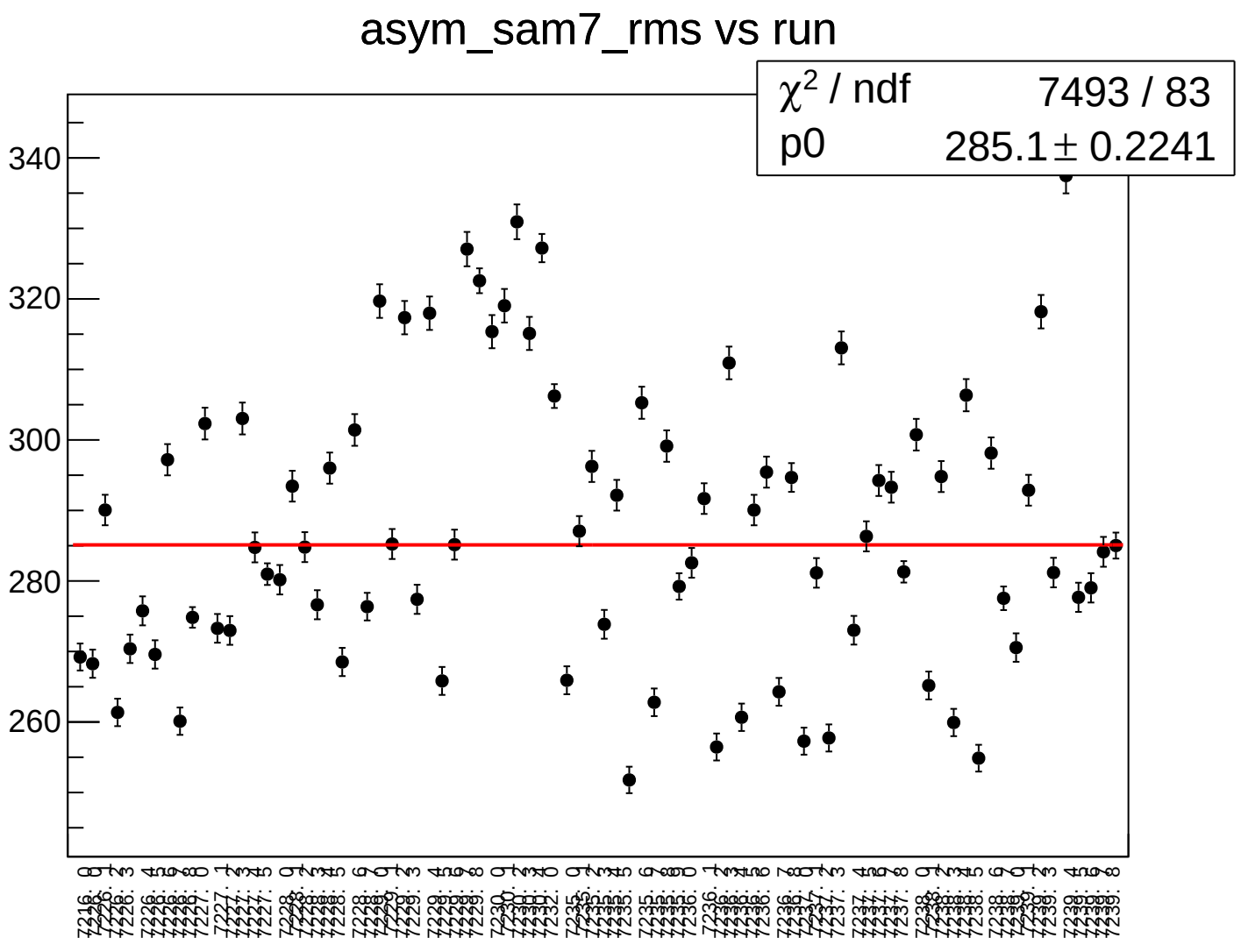

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 75.23 / 83
p0 −803.9 ± 310.4
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 955.8
Std Dev 0
2
1
0
−1
−2

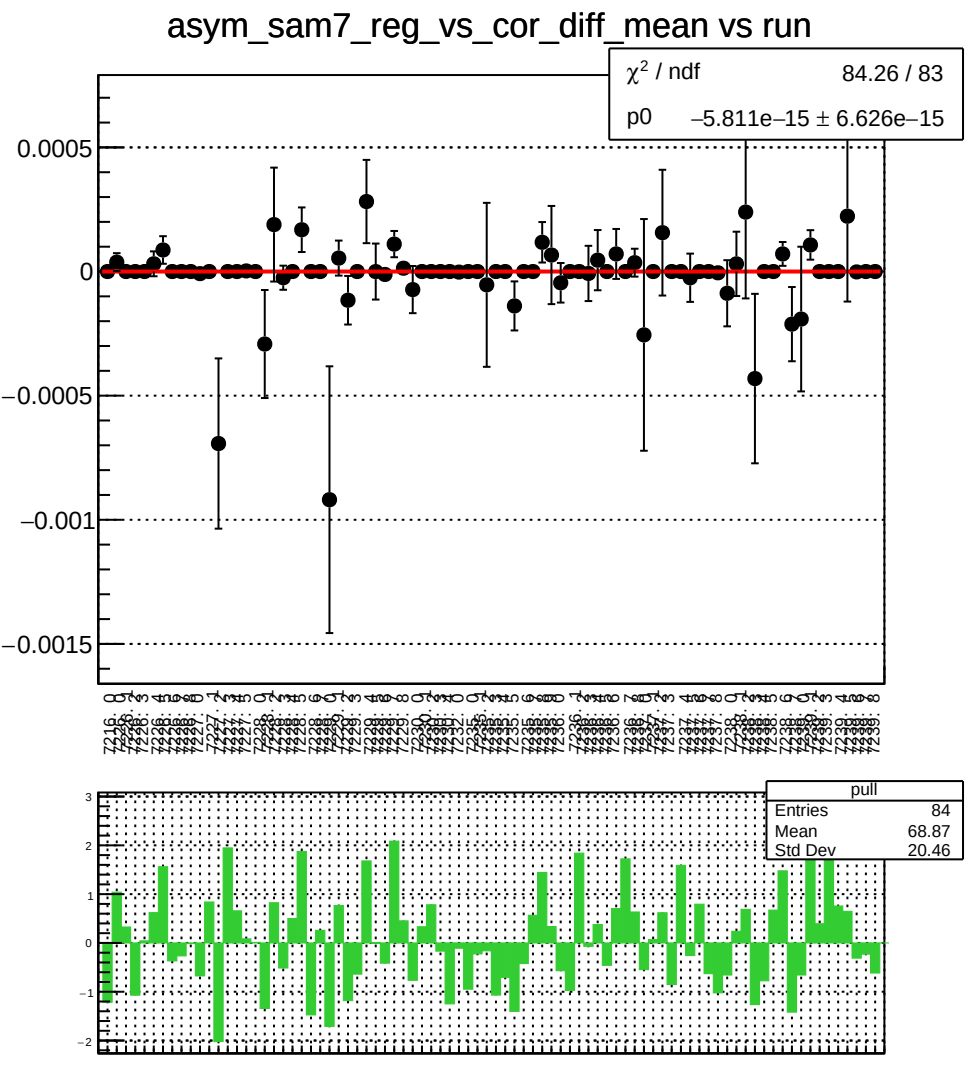

pull1D
Entries 84
Mean −0.001711
Std Dev 0.9464
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

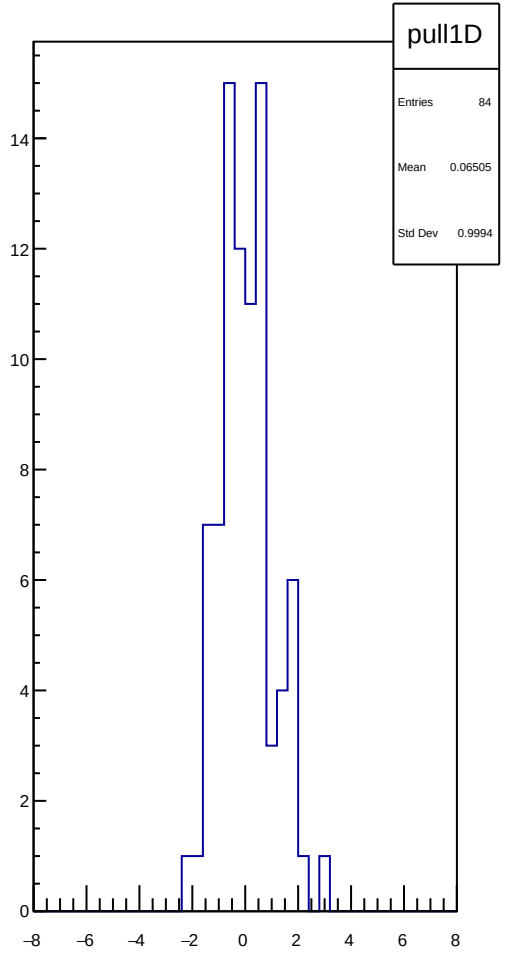

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 7571 / 83
p0 279.3 ± 0.2195
340
320
300
280
260
240

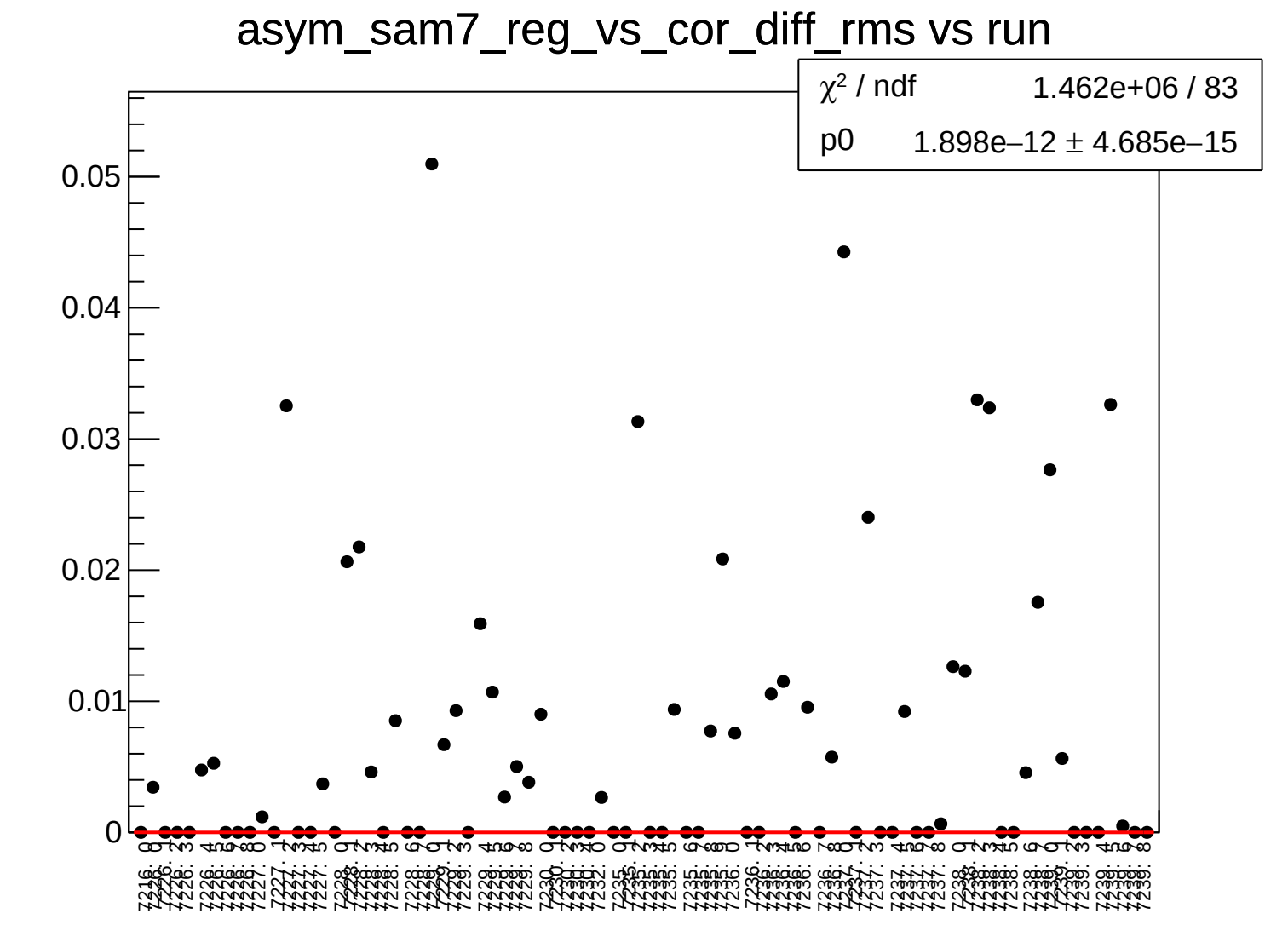

asym_sam7_mean vs run
χ^2 / ndf 80.94 / 83
p0 623.4 ± 316.9
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −385.1
Std Dev 0
3
2
1
0
−1
−2

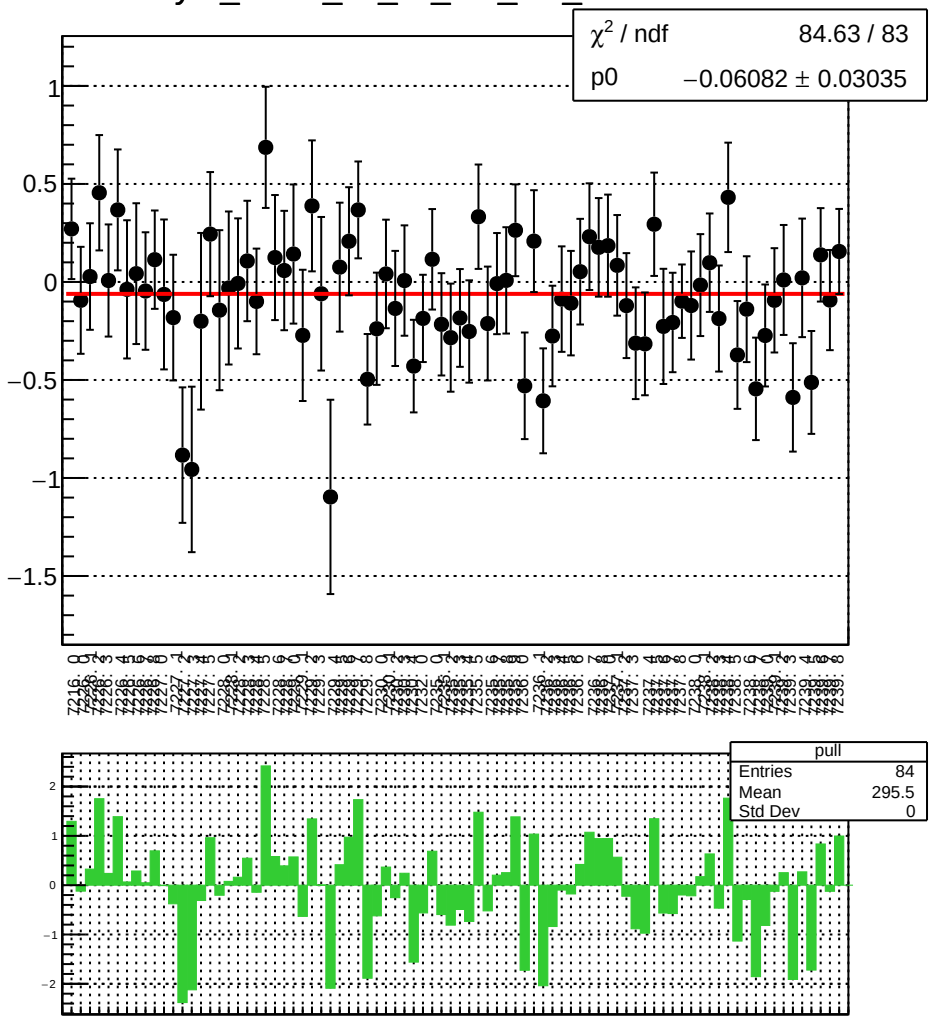

pull1D
Entries 84
Mean −0.005994
Std Dev 0.9816
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

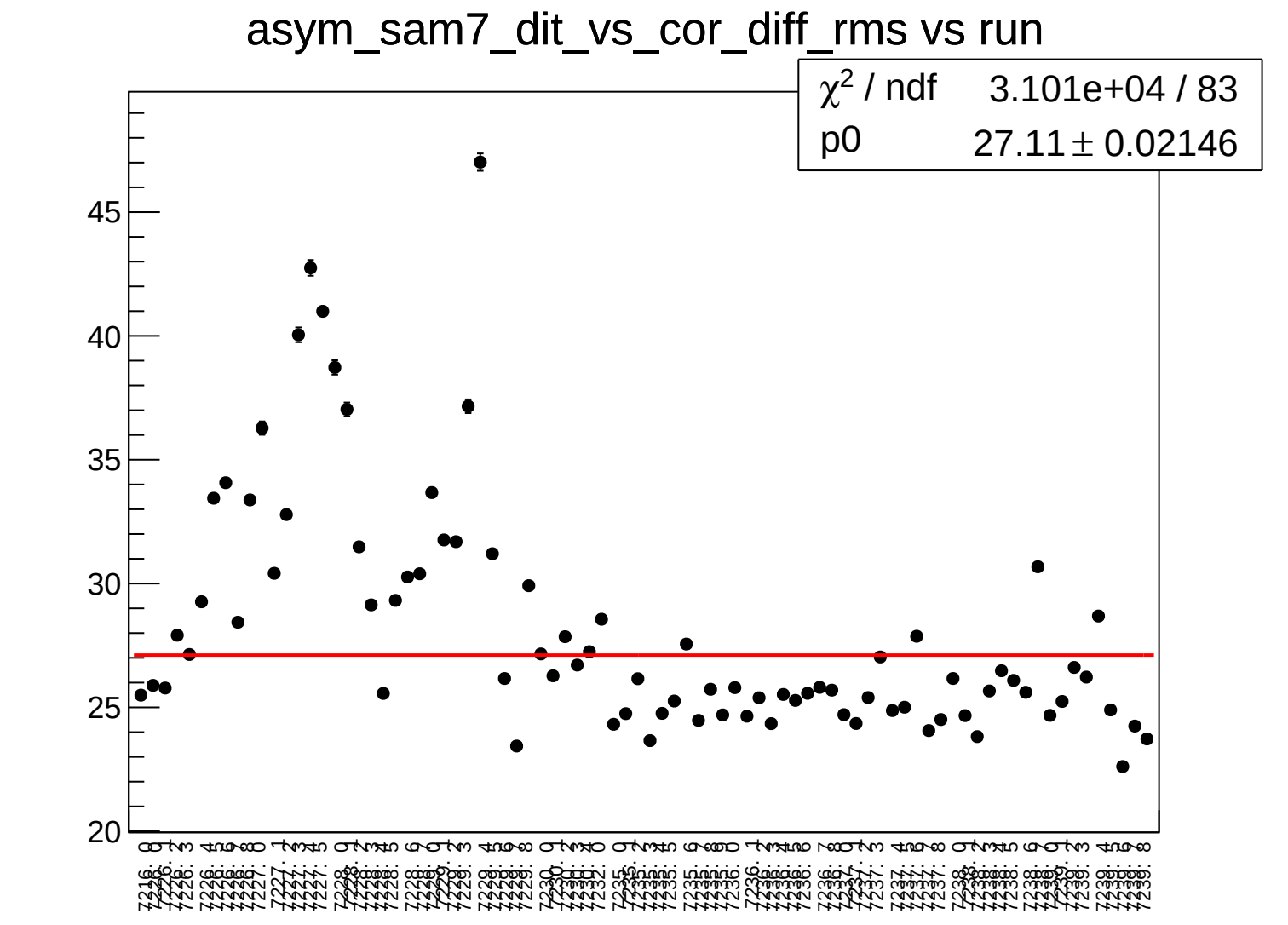

asym_sam7_rms vs run
χ^2 / ndf 7493 / 83
p0 285.1 ± 0.2241
340
320
300
280
260

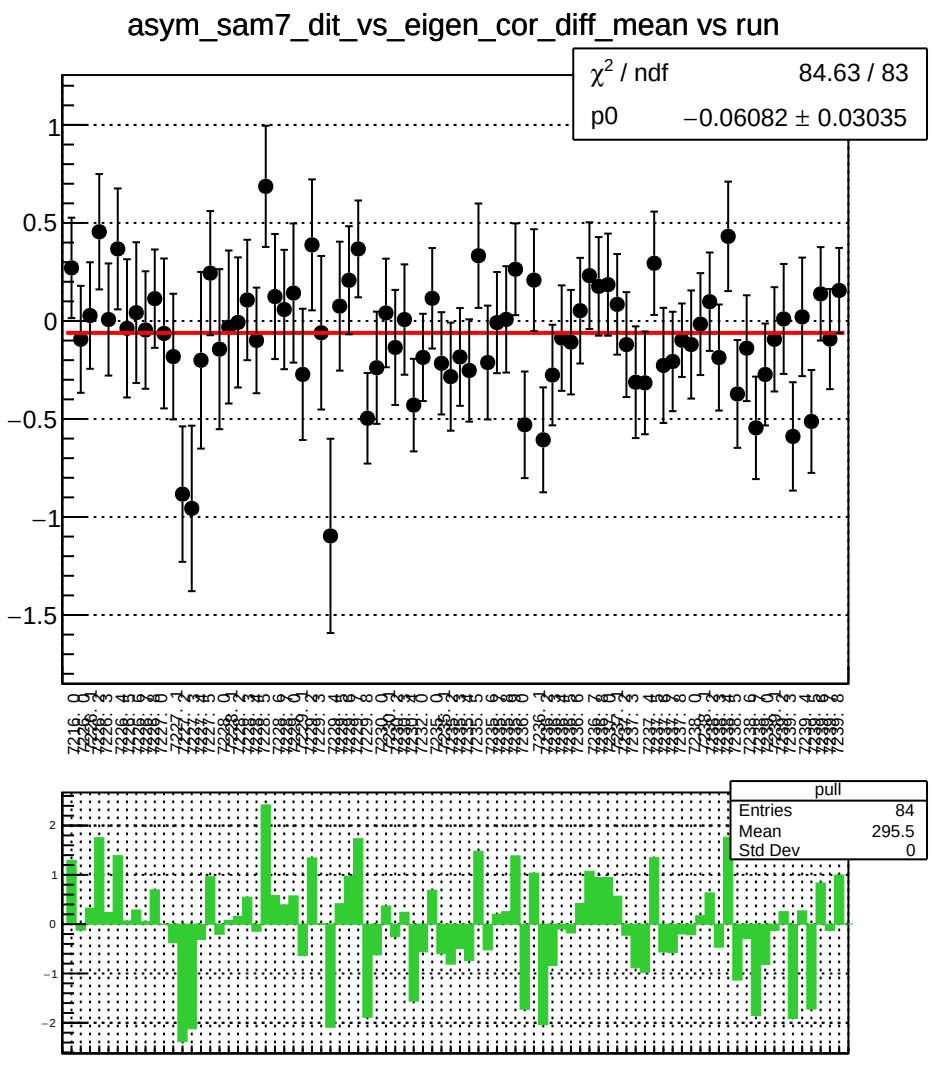

asym_sam7_reg_vs_cor_diff_mean vs run
χ² / ndf 84.26 / 83
p0 −5.811e−15 ± 6.626e−15
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 84
Mean 68.87
Std Dev 20.46
3
2
1
0
−1
−2

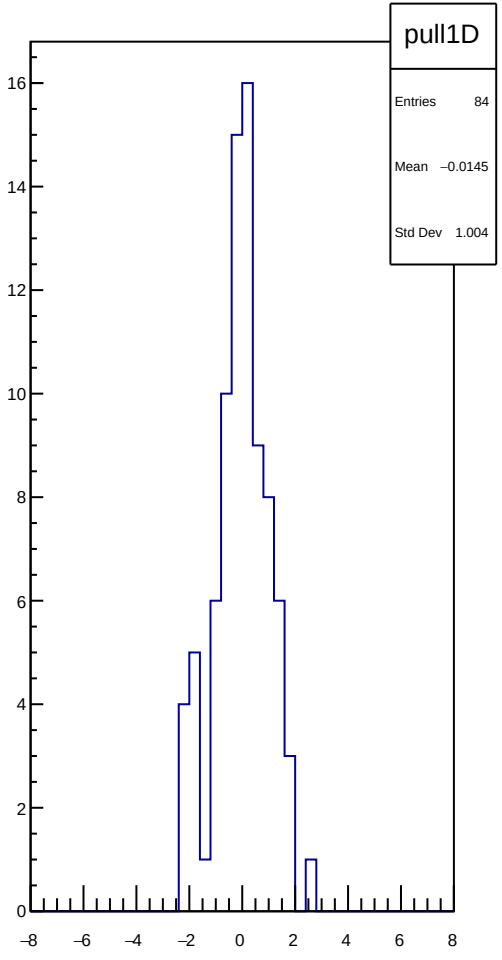

pull1D
Entries 84
Mean 0.06505
Std Dev 0.9994
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

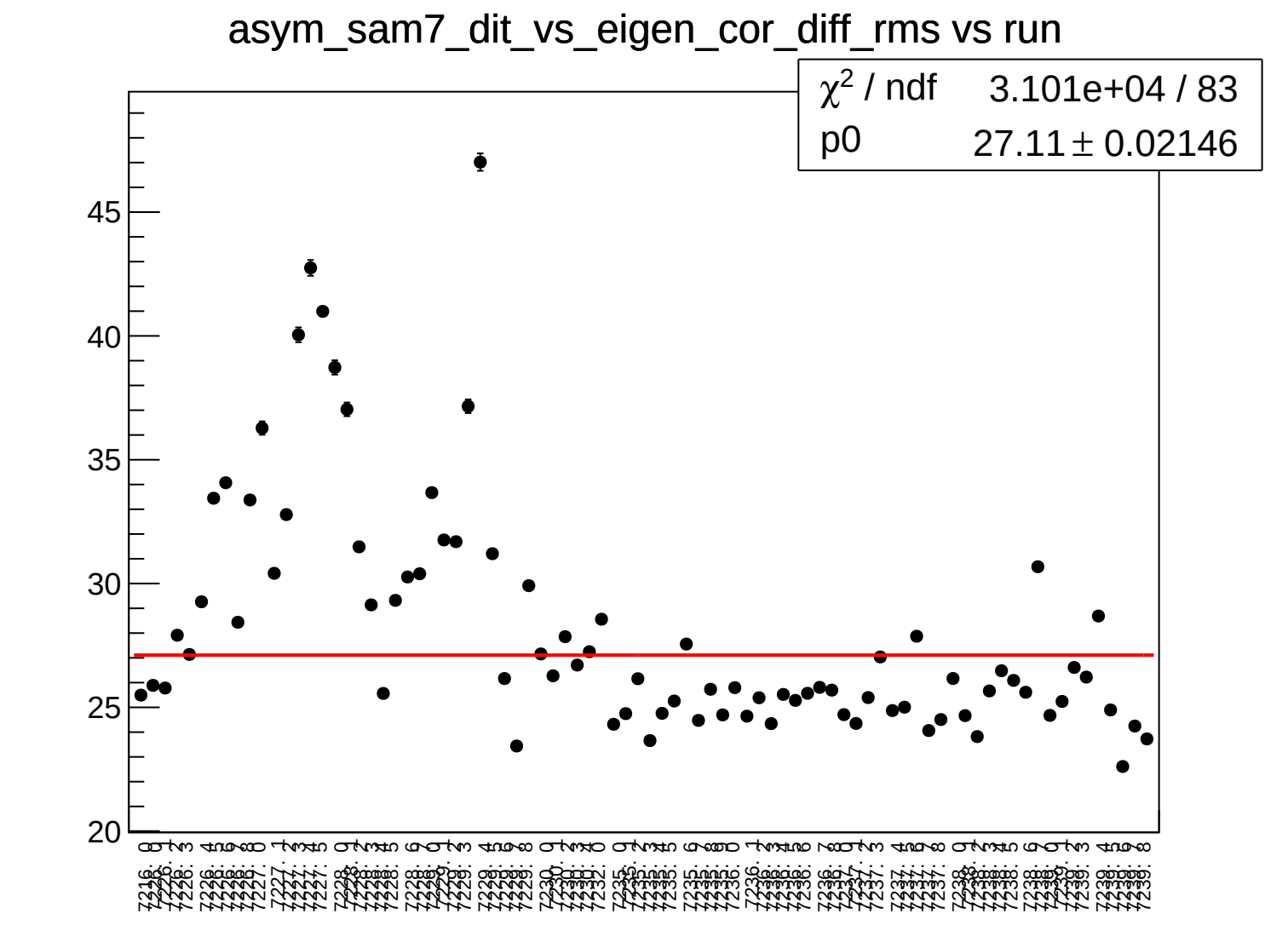

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 1.462e+06 / 83
p0 1.898e−12 ± 4.685e−15
0.05
0.04
0.03
0.02
0.01
0

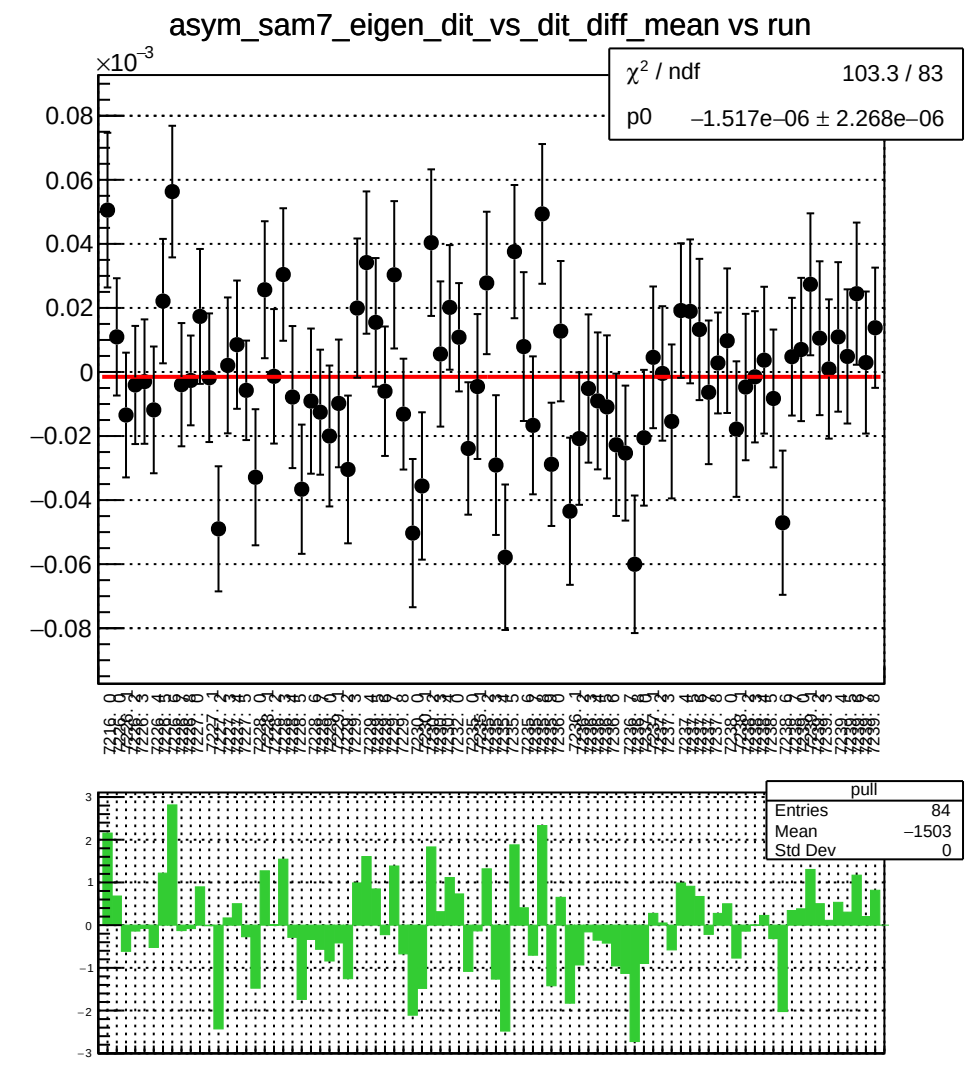

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 84.63 / 83
p0 −0.06082 ± 0.03035
pull
Entries 84
Mean 295.5
Std Dev 0
pull1D
Entries 84
Mean −0.0145
Std Dev 1.004

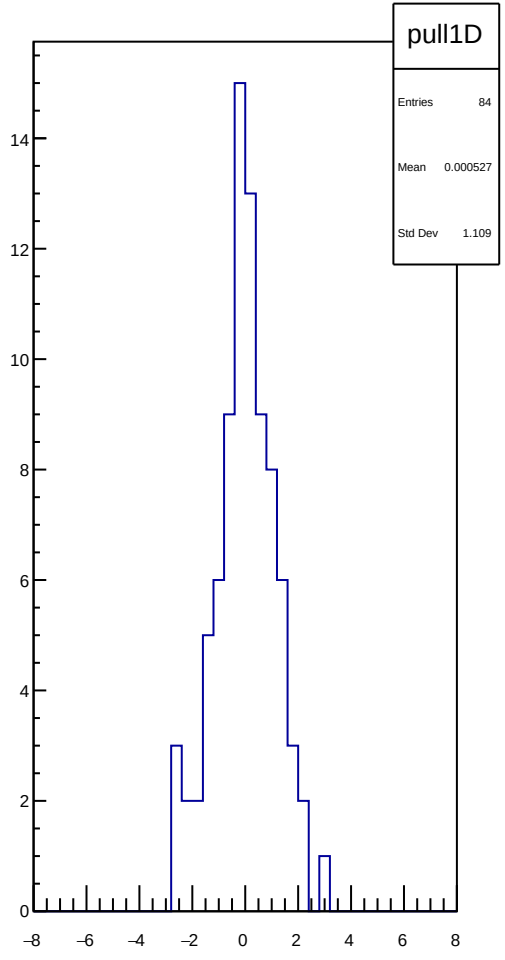

asym_sam7_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.101e+04 / 83
p0 27.11 ± 0.02146
45
40
35
30
25
20

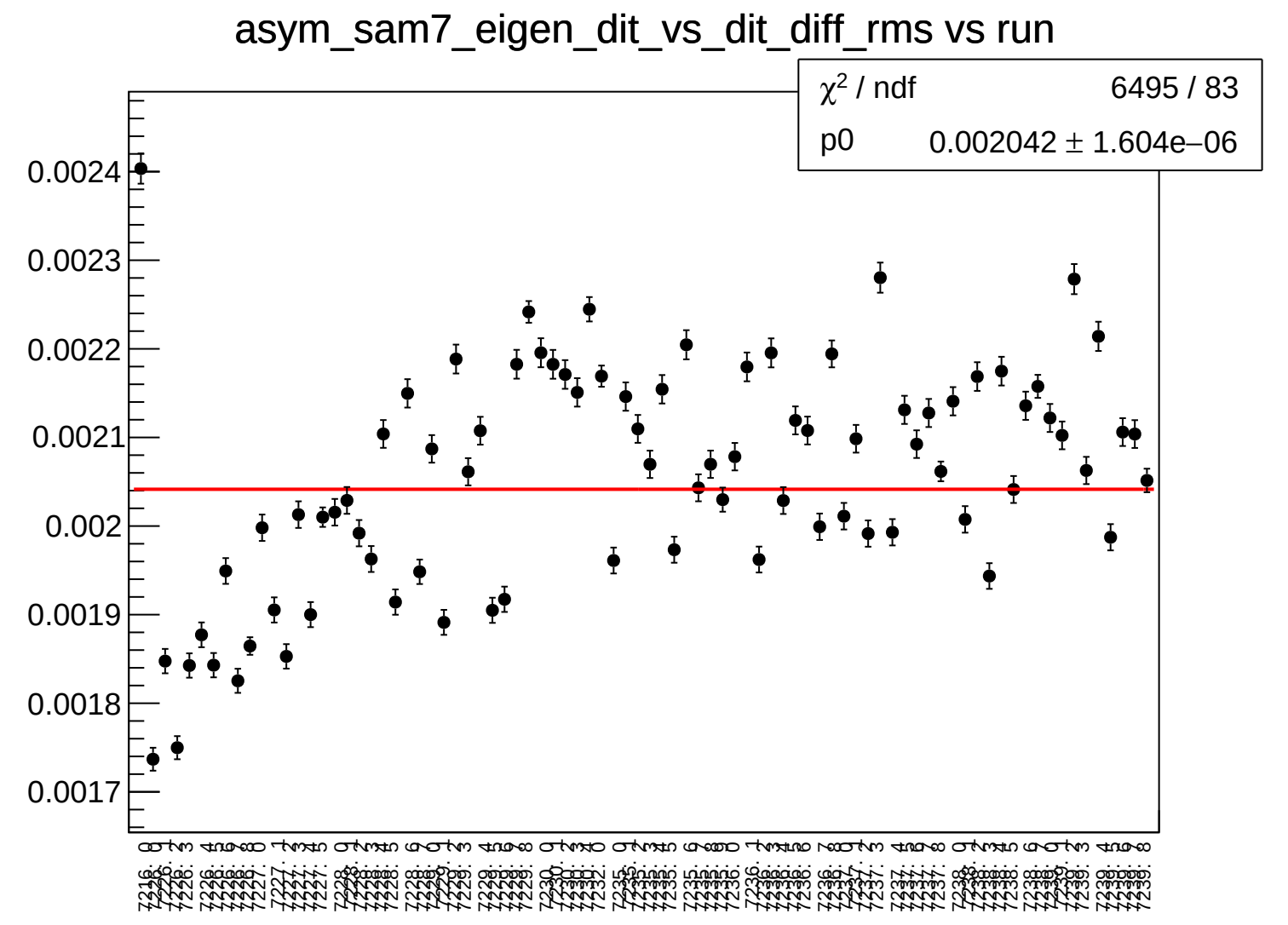

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.63 / 83
p0 −0.06082 ± 0.03035
pull
Entries 84
Mean 295.5
Std Dev 0

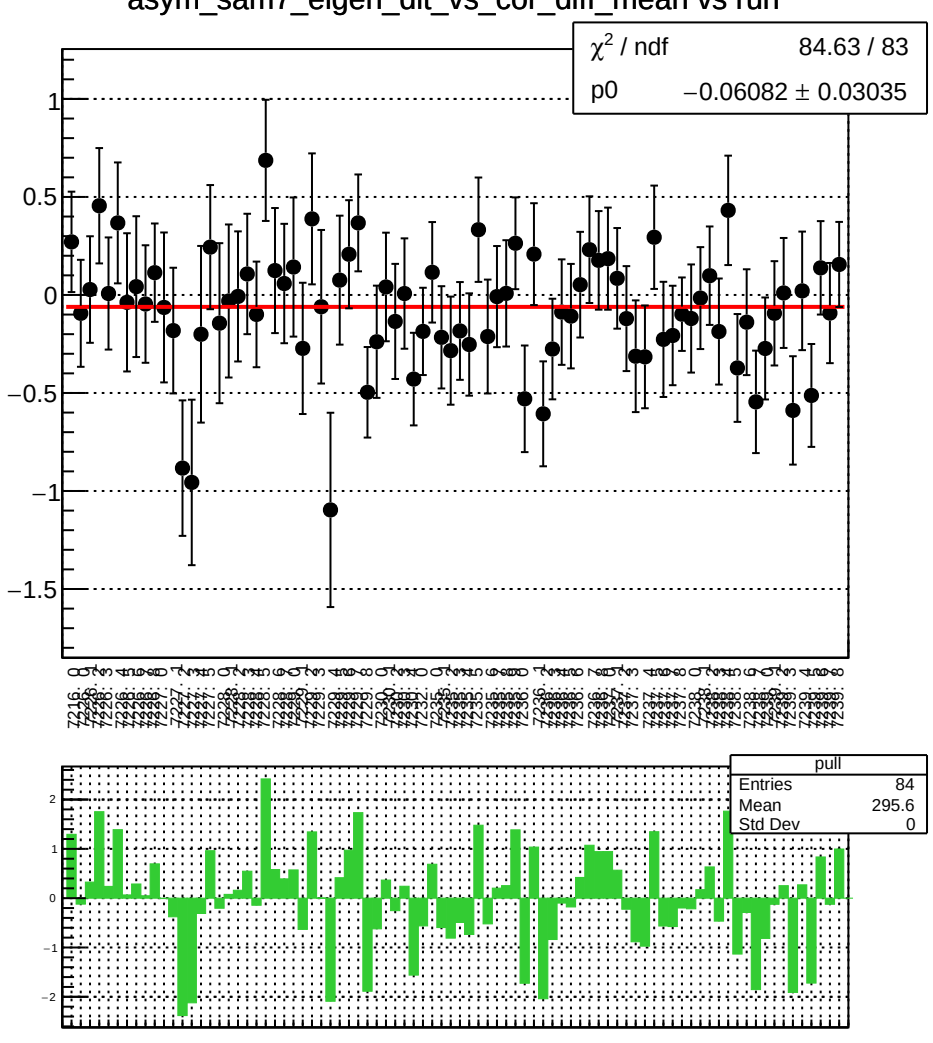

pull1D
Entries 84
Mean −0.0145
Std Dev 1.004

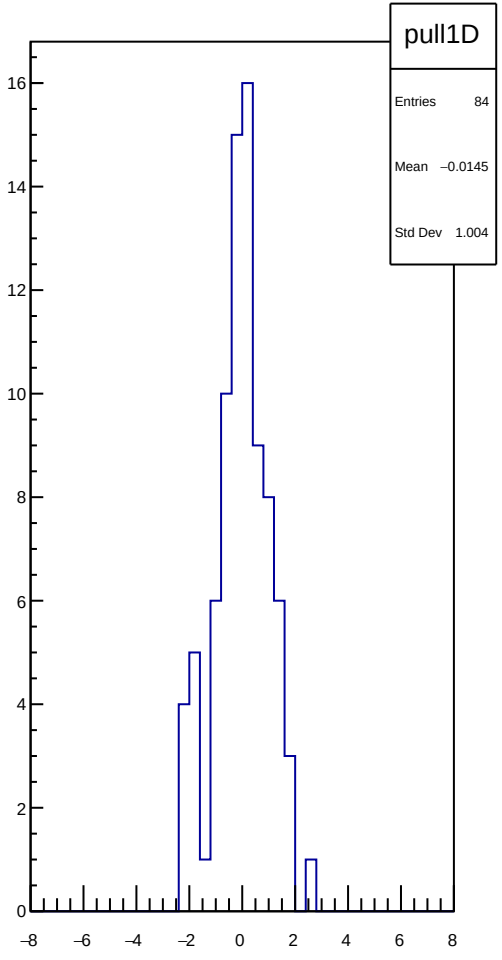

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 3.101e+04 / 83
p0 27.11 ± 0.02146
45
40
35
30
25
20

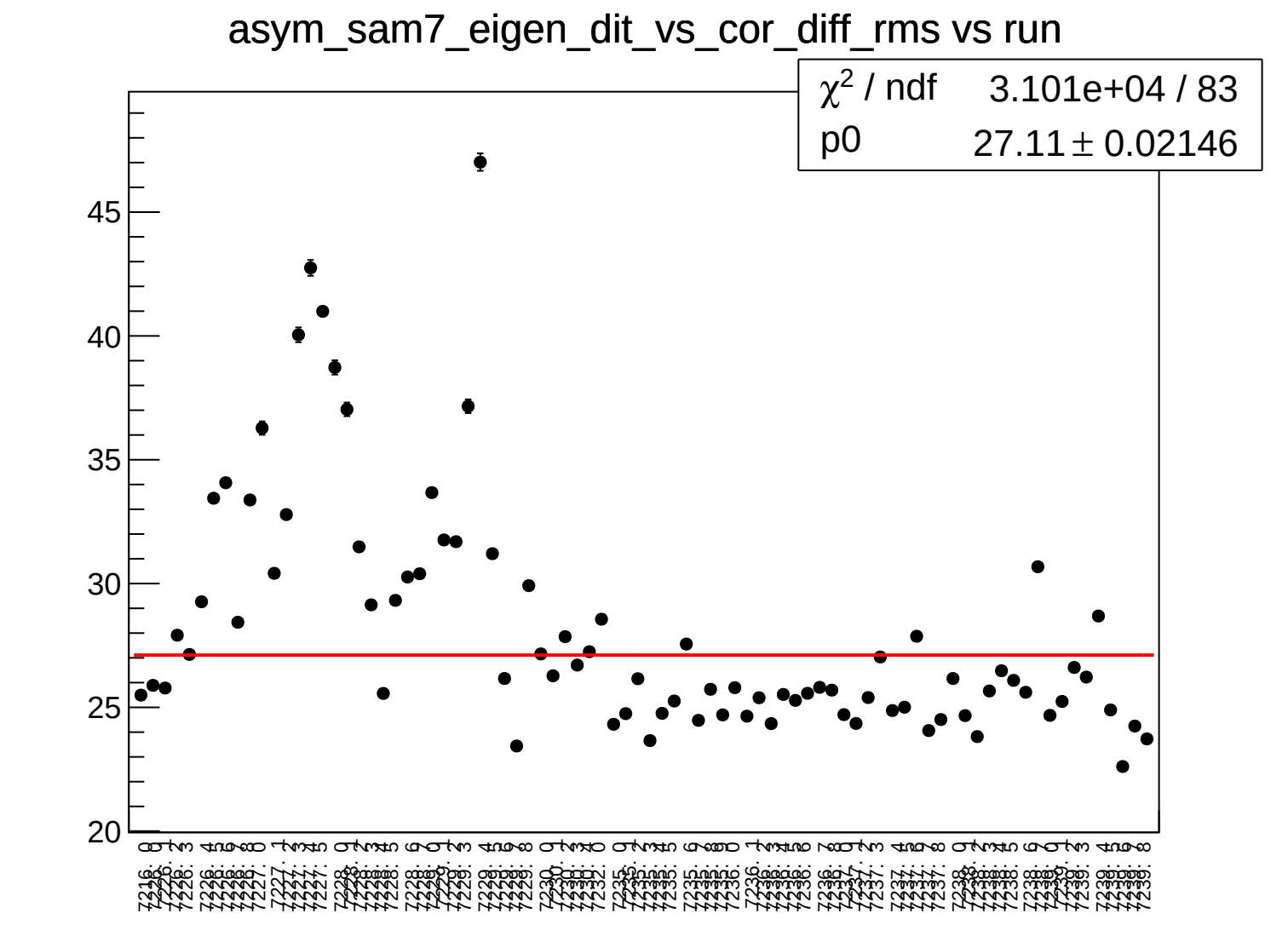

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103.3 / 83
p0 −1.517e−06 ± 2.268e−06
pull
Entries 84
Mean −1503
Std Dev 0

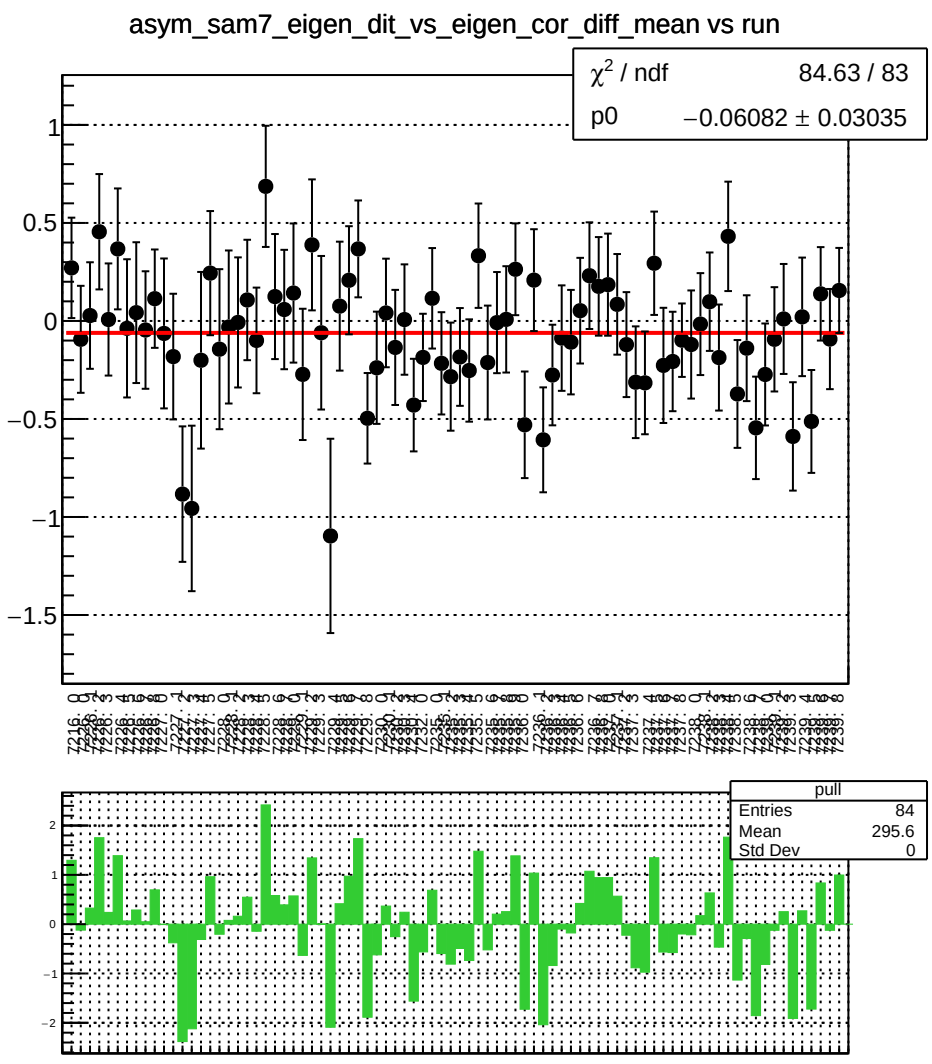

pull1D
Entries 84
Mean 0.000527
Std Dev 1.109

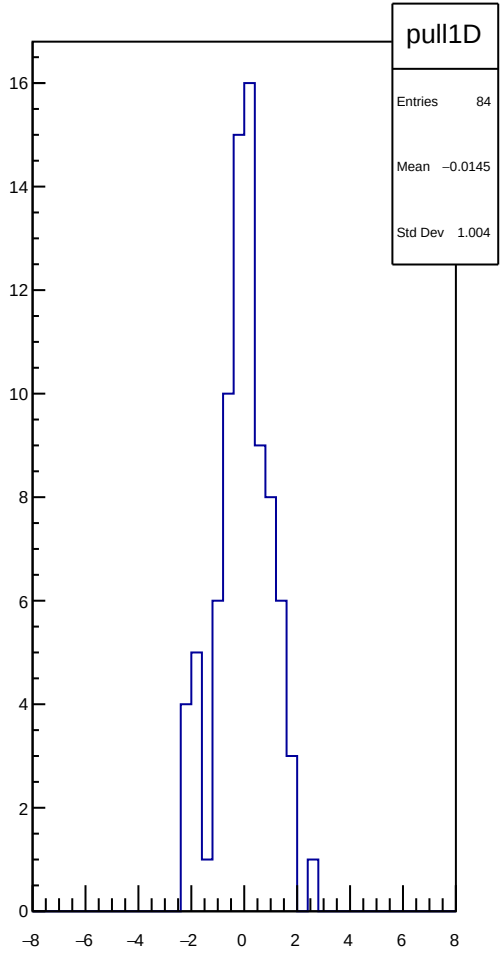

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6495 / 83
p0 0.002042 ± 1.604e−06
0.0024
0.0023
0.0022
0.0021
0.002
0.0019
0.0018
0.0017

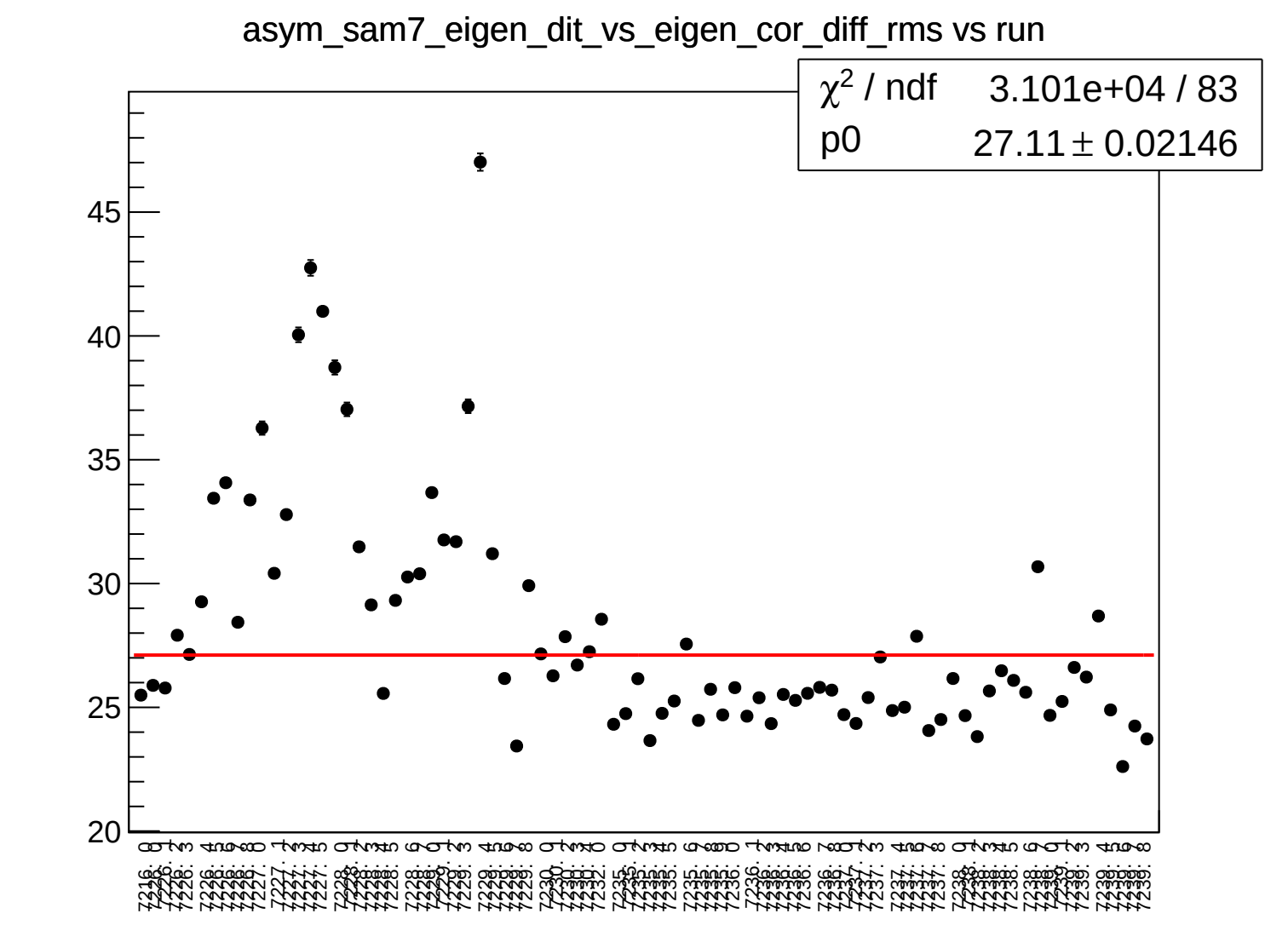

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.63 / 83
p0 −0.06082 ± 0.03035
pull
Entries 84
Mean 295.6
Std Dev 0

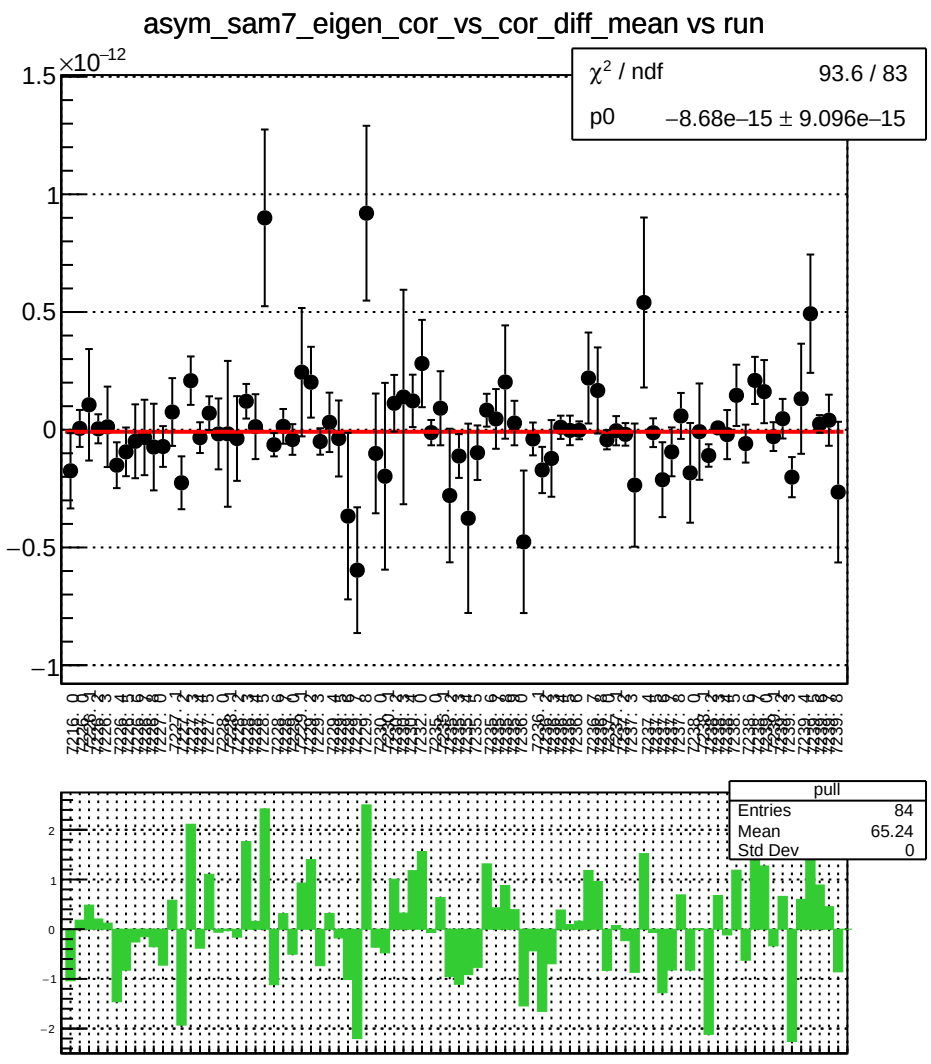

pull1D
Entries 84
Mean −0.0145
Std Dev 1.004

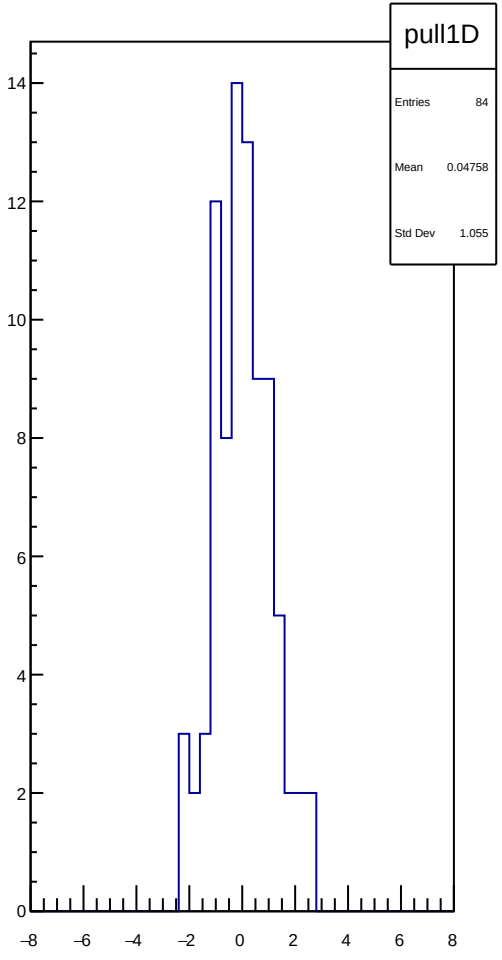

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.101e+04 / 83
p0 27.11 ± 0.02146
45
40
35
30
25
20

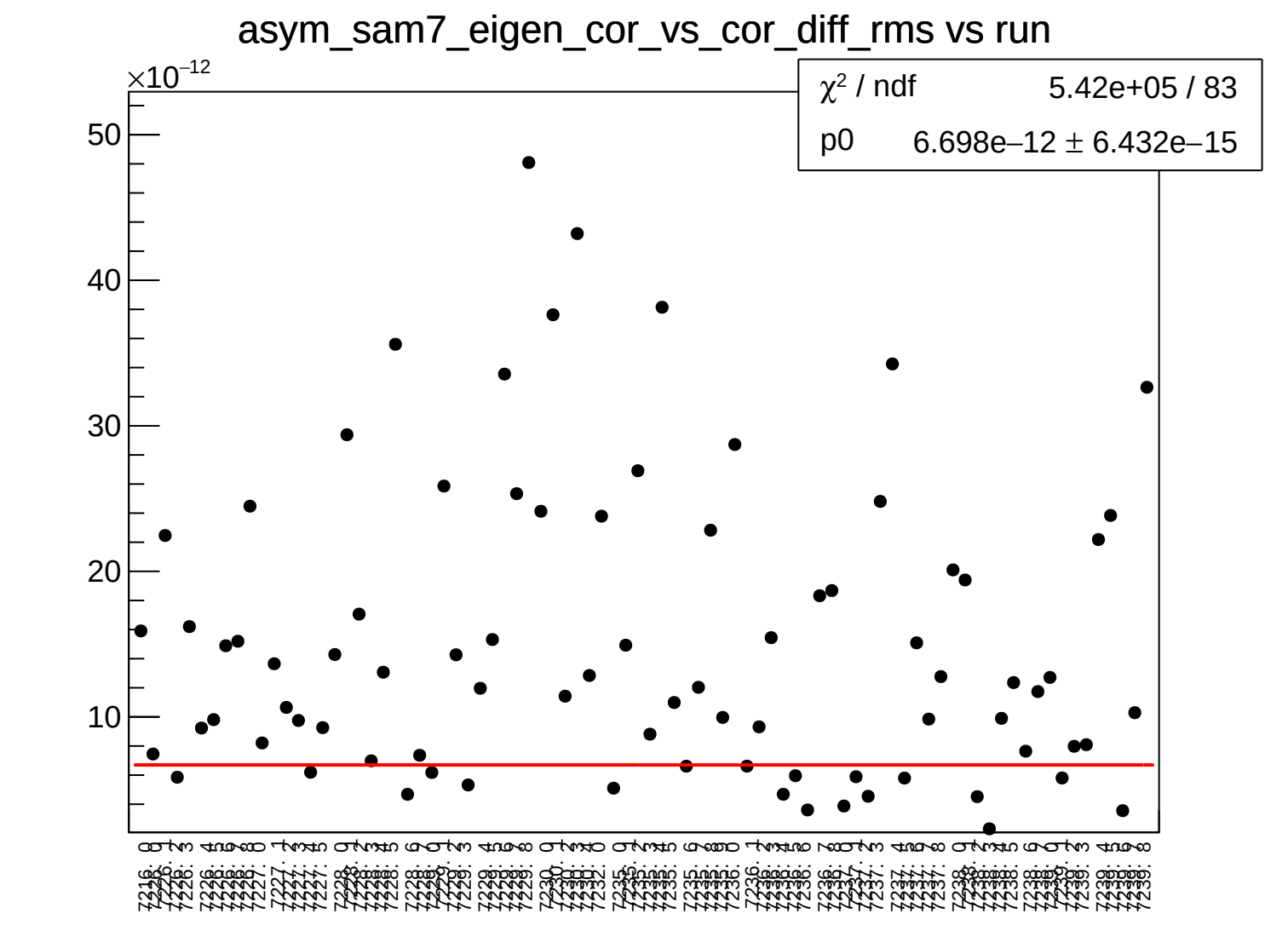

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.63 / 83
p0 −0.06082 ± 0.03035
pull
Entries 84
Mean 295.6
Std Dev 0

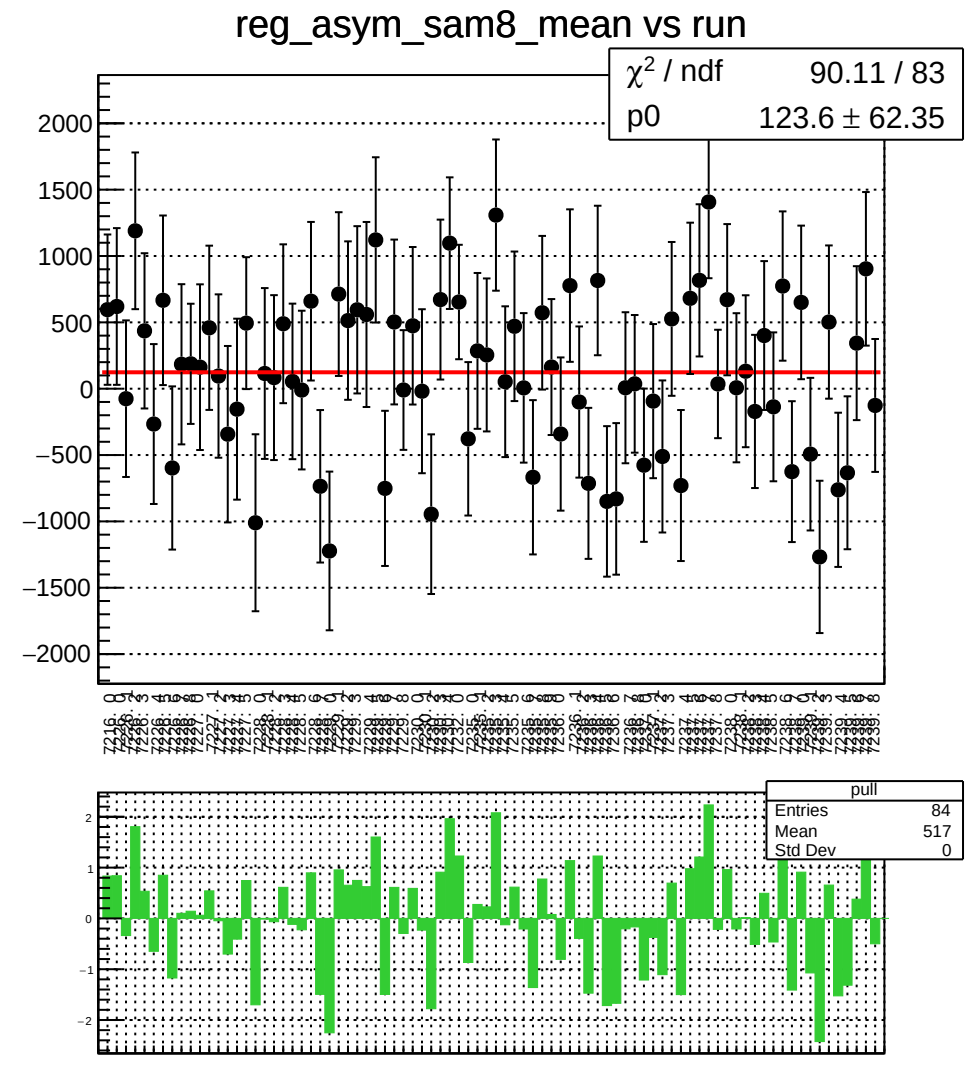

pull1D
Entries 84
Mean −0.0145
Std Dev 1.004

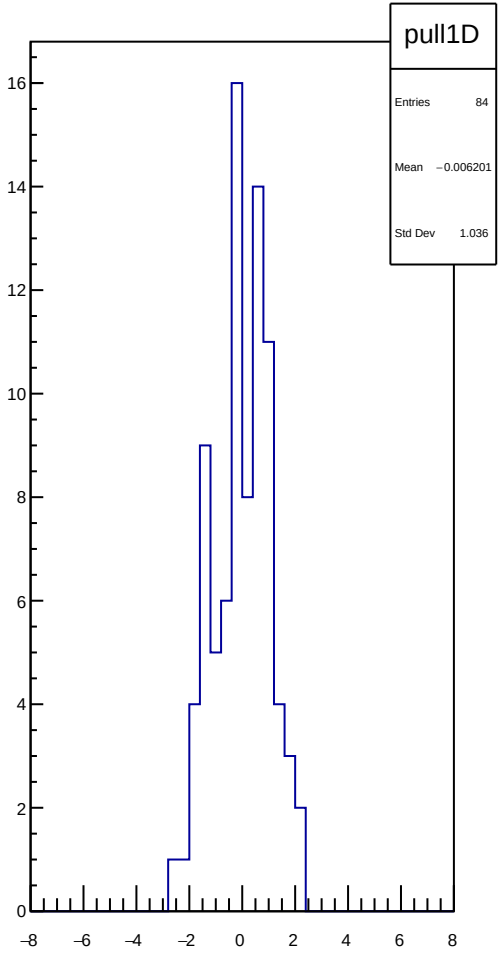

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.101e+04 / 83
p0 27.11 ± 0.02146
45
40
35
30
25
20

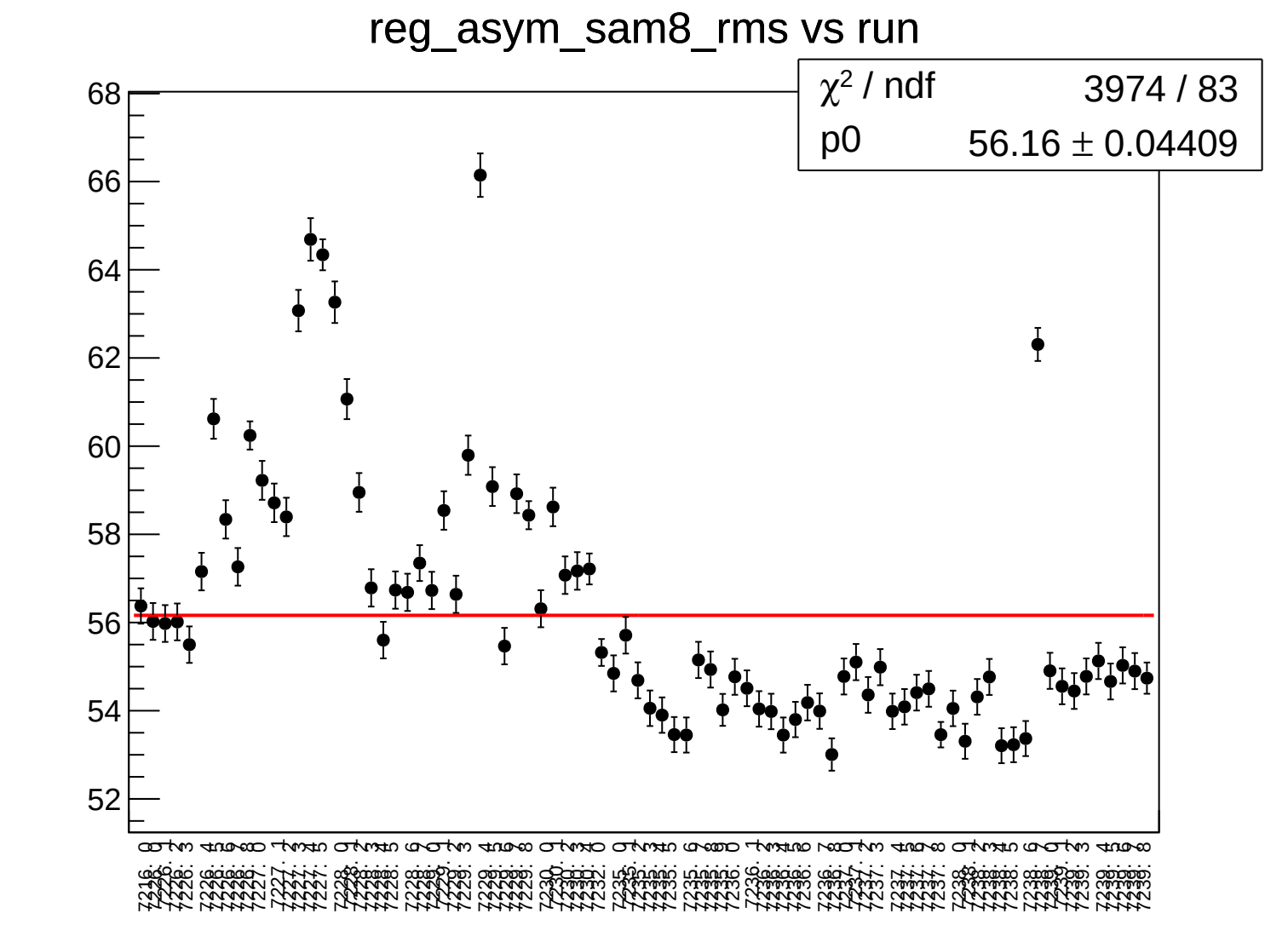

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
χ² / ndf 93.6 / 83
p0 −8.68e−15 ± 9.096e−15
×10⁻¹²
pull
Entries 84
Mean 65.24
Std Dev 0

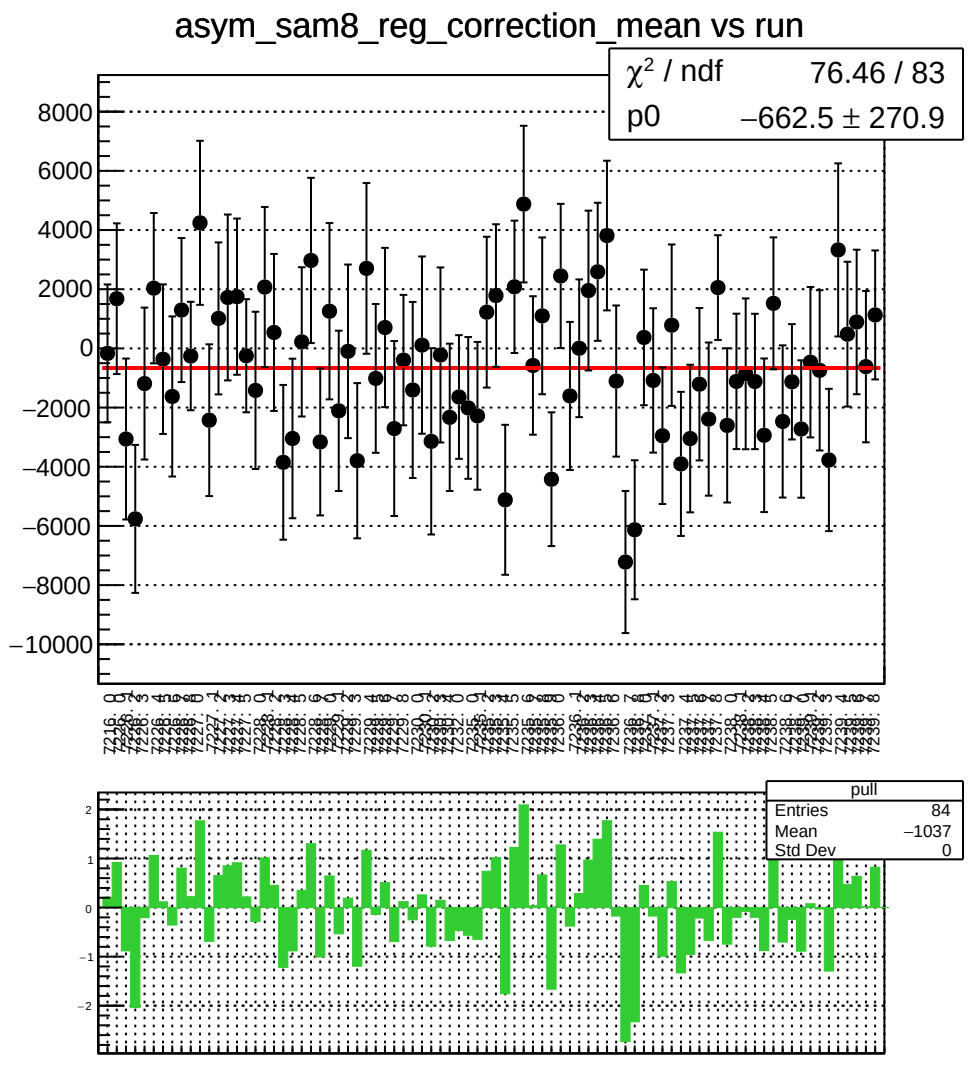

pull1D
Entries 84
Mean 0.04758
Std Dev 1.055

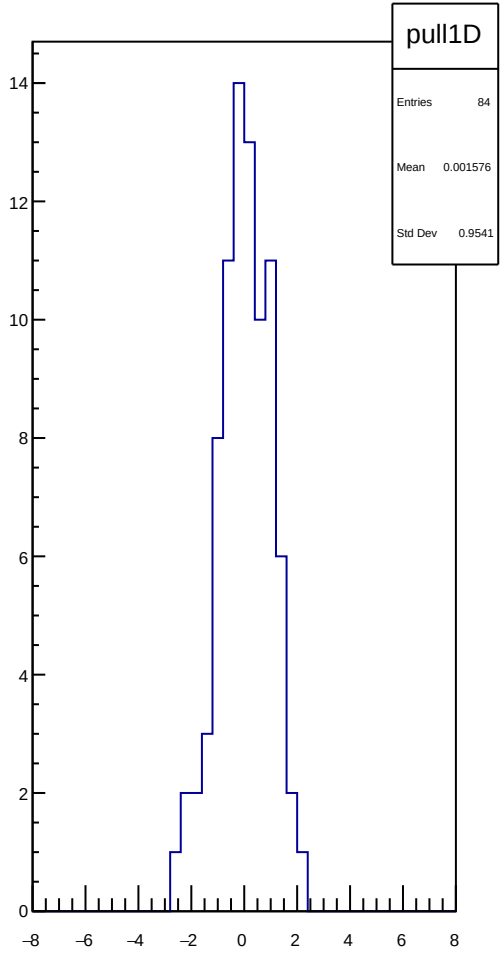

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.42e+05 / 83
p0 6.698e−12 ± 6.432e−15
50
40
30
20
10

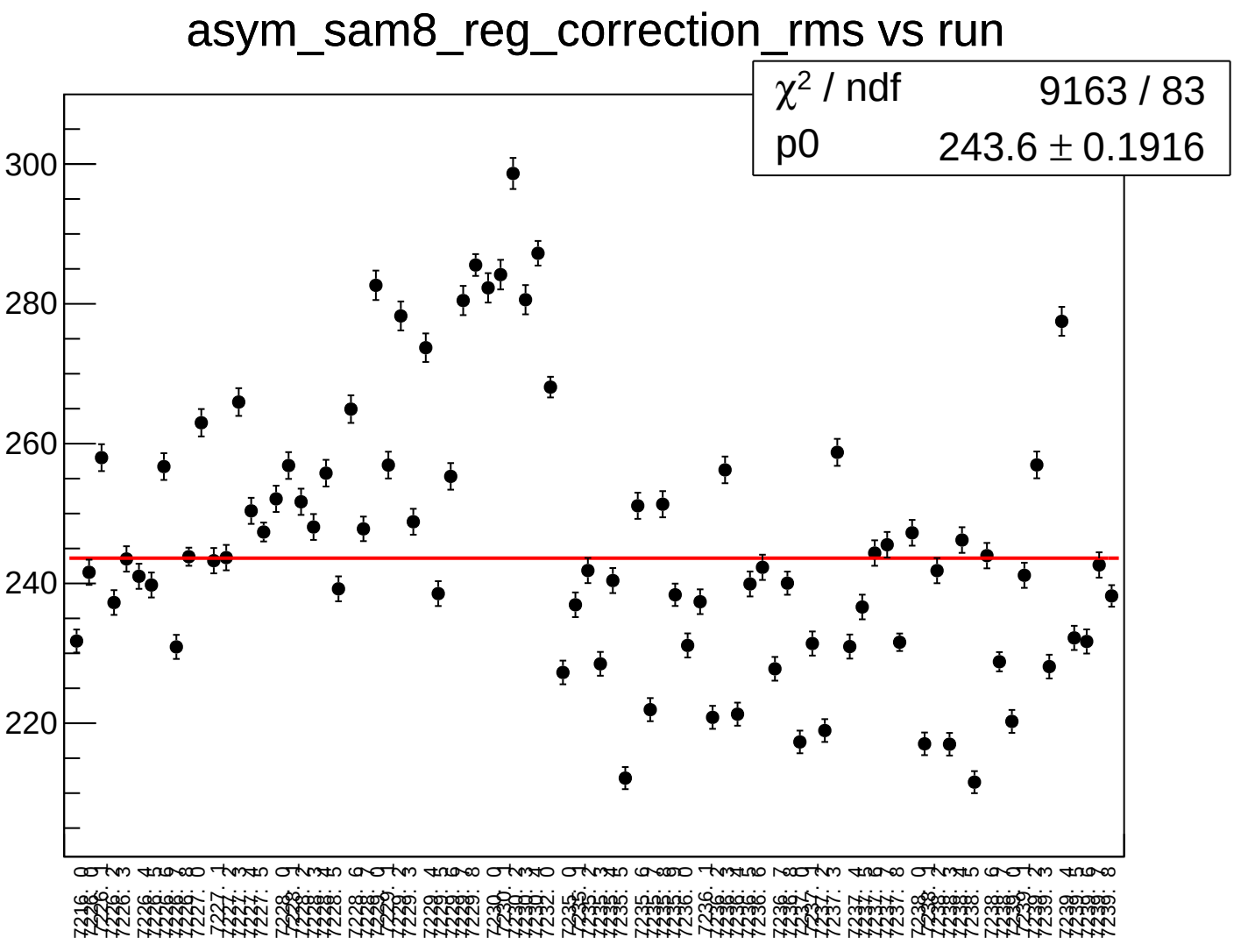

reg_asym_sam8_mean vs run
χ² / ndf 90.11 / 83
p0 123.6 ± 62.35
pull
Entries 84
Mean 517
Std Dev 0

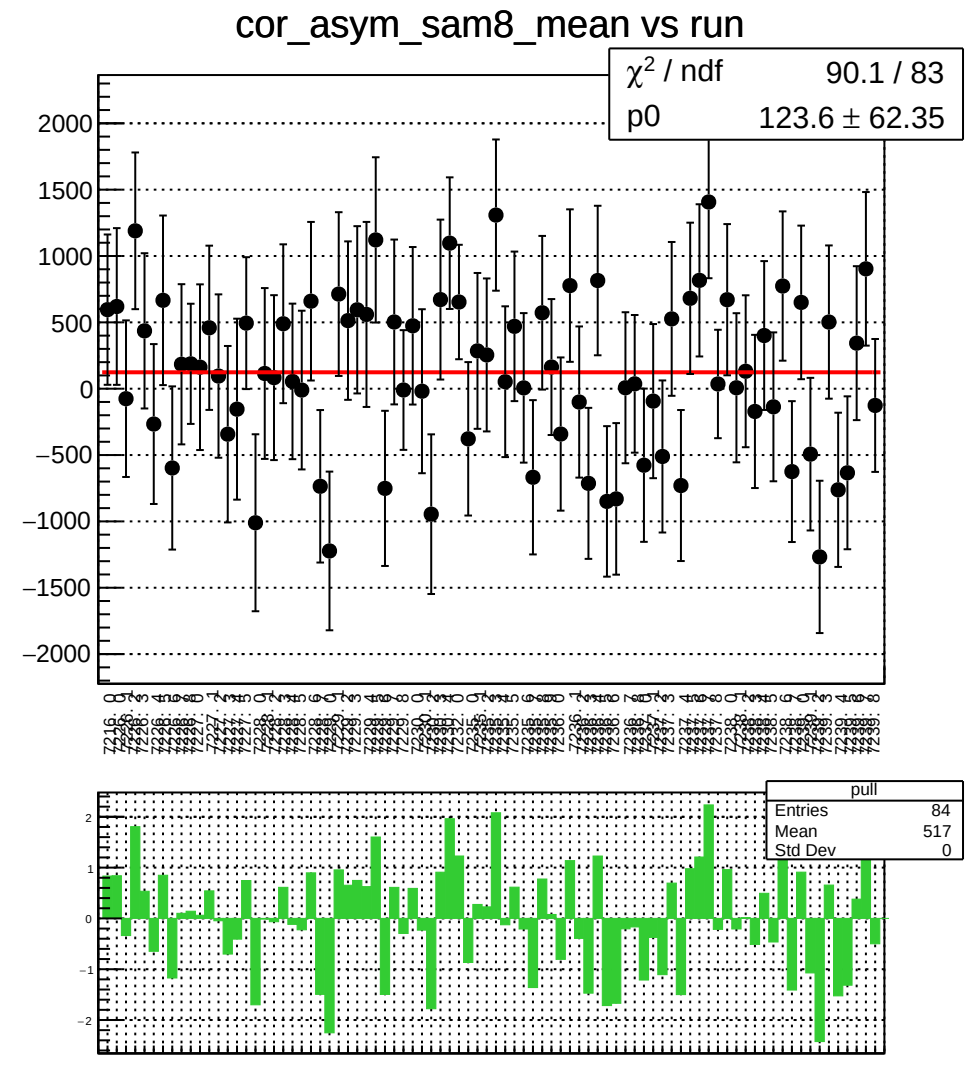

pull1D
Entries 84
Mean −0.006201
Std Dev 1.036

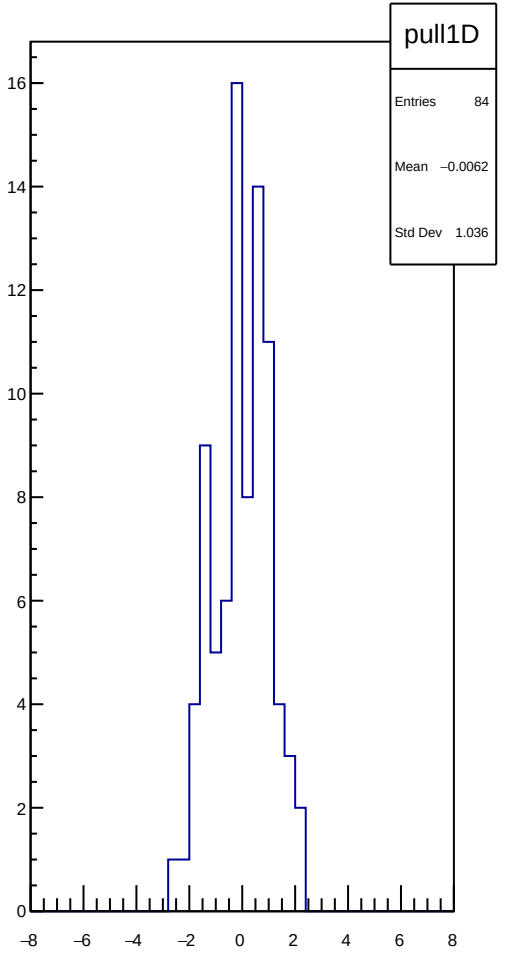

reg_asym_sam8_rms vs run
χ^2 / ndf 3974 / 83
p0 56.16 ± 0.04409
68
66
64
62
60
58
56
54
52

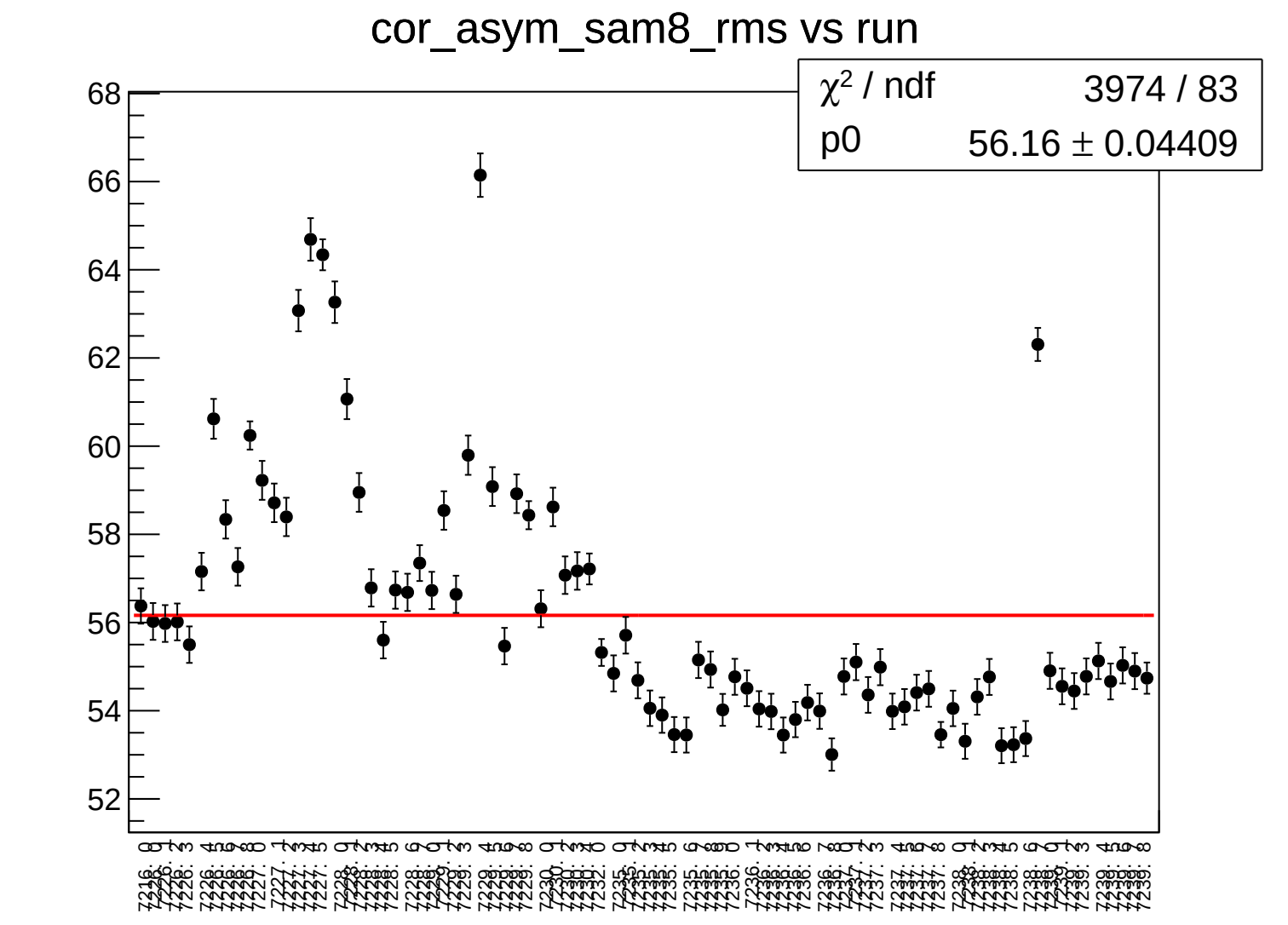

asym_sam8_reg_correction_mean vs run
χ² / ndf 76.46 / 83
p0 −662.5 ± 270.9
pull
Entries 84
Mean −1037
Std Dev 0

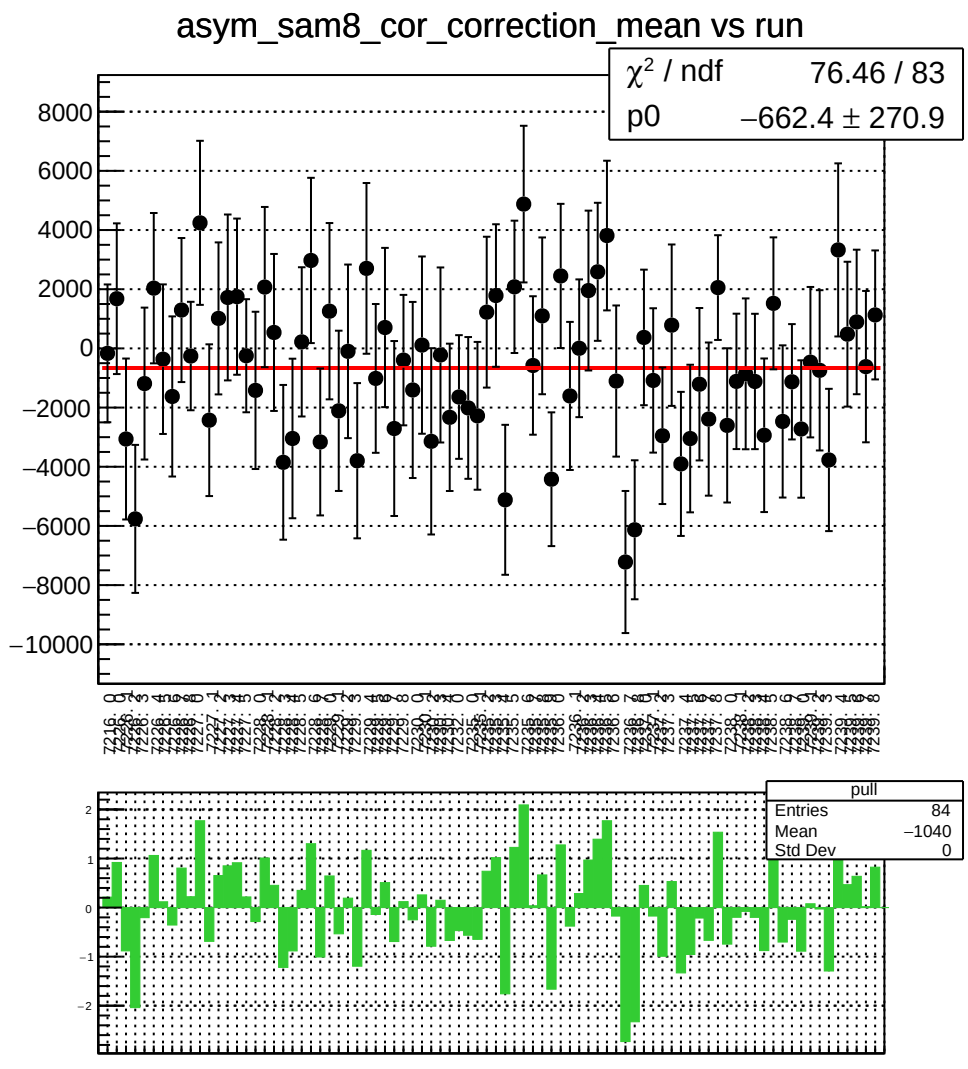

pull1D
Entries 84
Mean 0.001576
Std Dev 0.9541

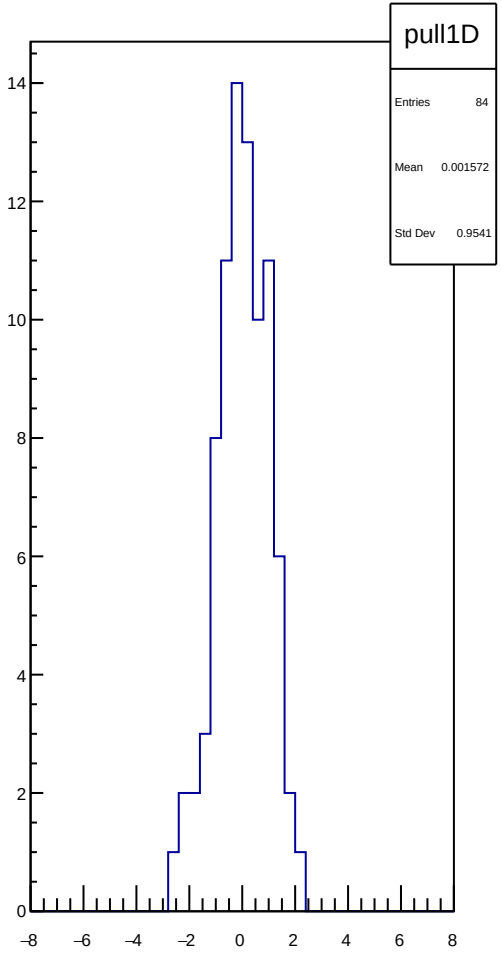

asym_sam8_reg_correction_rms vs run
χ² / ndf 9163 / 83
p0 243.6 ± 0.1916
300
280
260
240
220

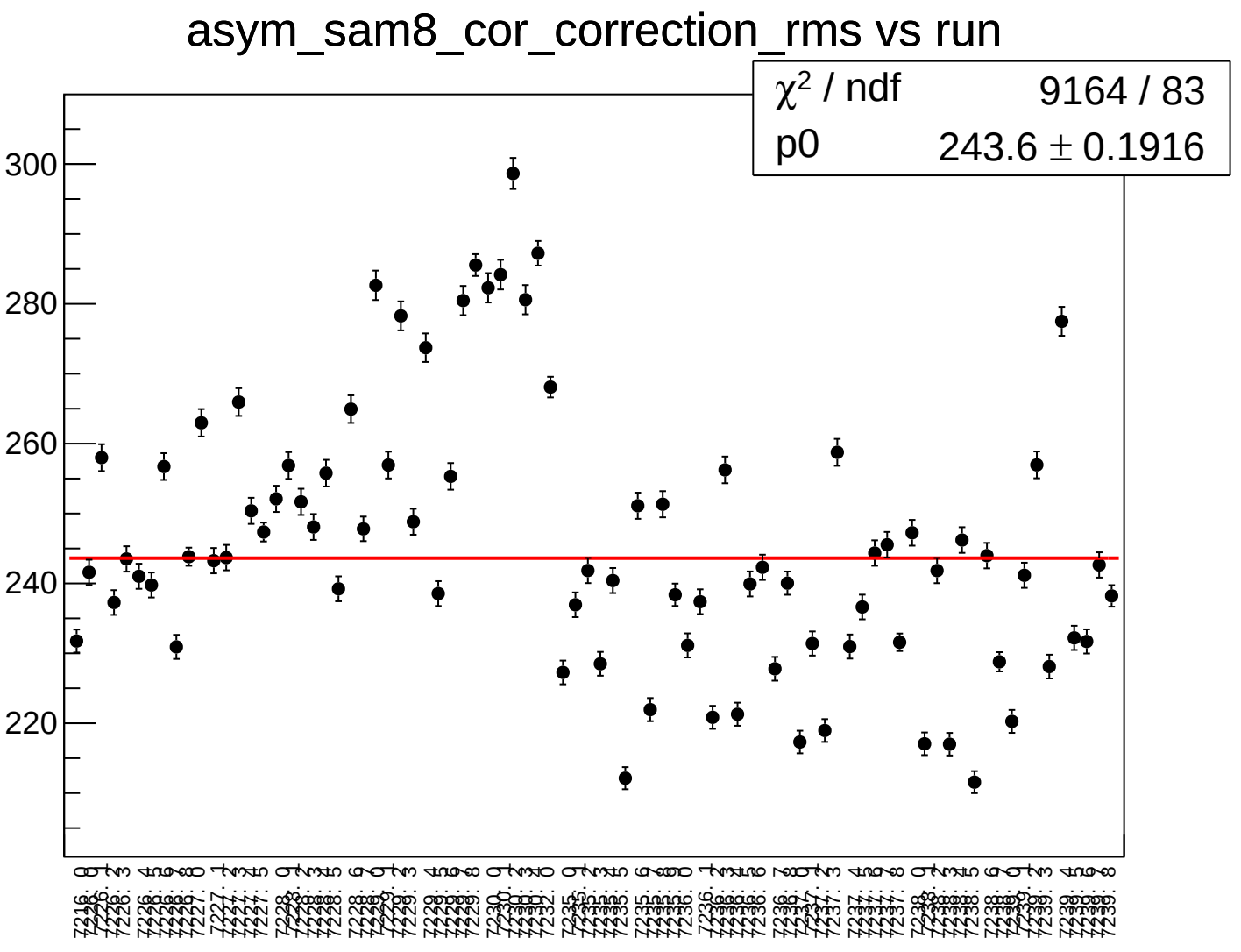

cor_asym_sam8_mean vs run
χ² / ndf 90.1 / 83
p0 123.6 ± 62.35
pull
Entries 84
Mean 517
Std Dev 0

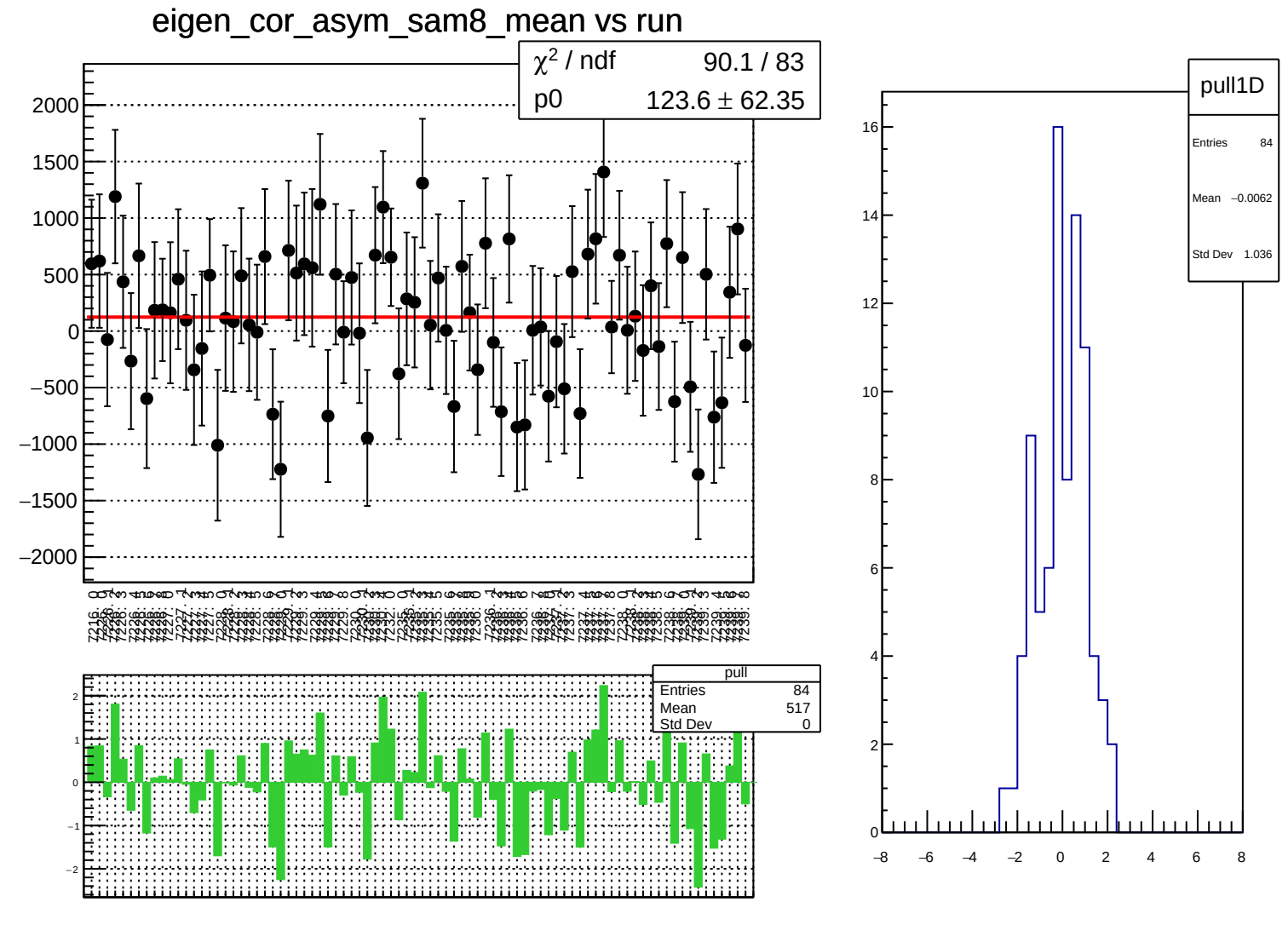

pull1D
Entries 84
Mean −0.0062
Std Dev 1.036

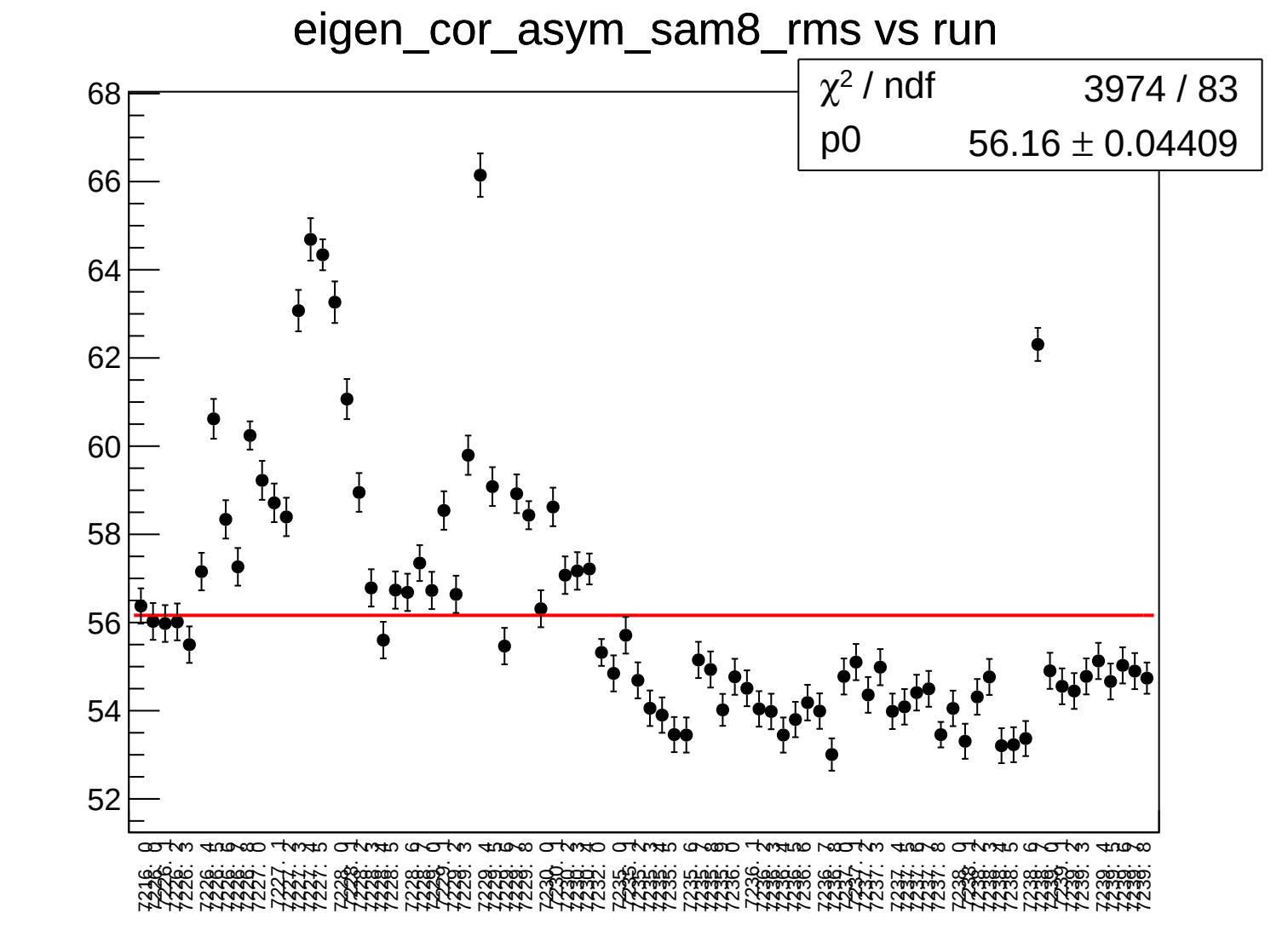

cor_asym_sam8_rms vs run
χ² / ndf 3974 / 83
p0 56.16 ± 0.04409
68
66
64
62
60
58
56
54
52

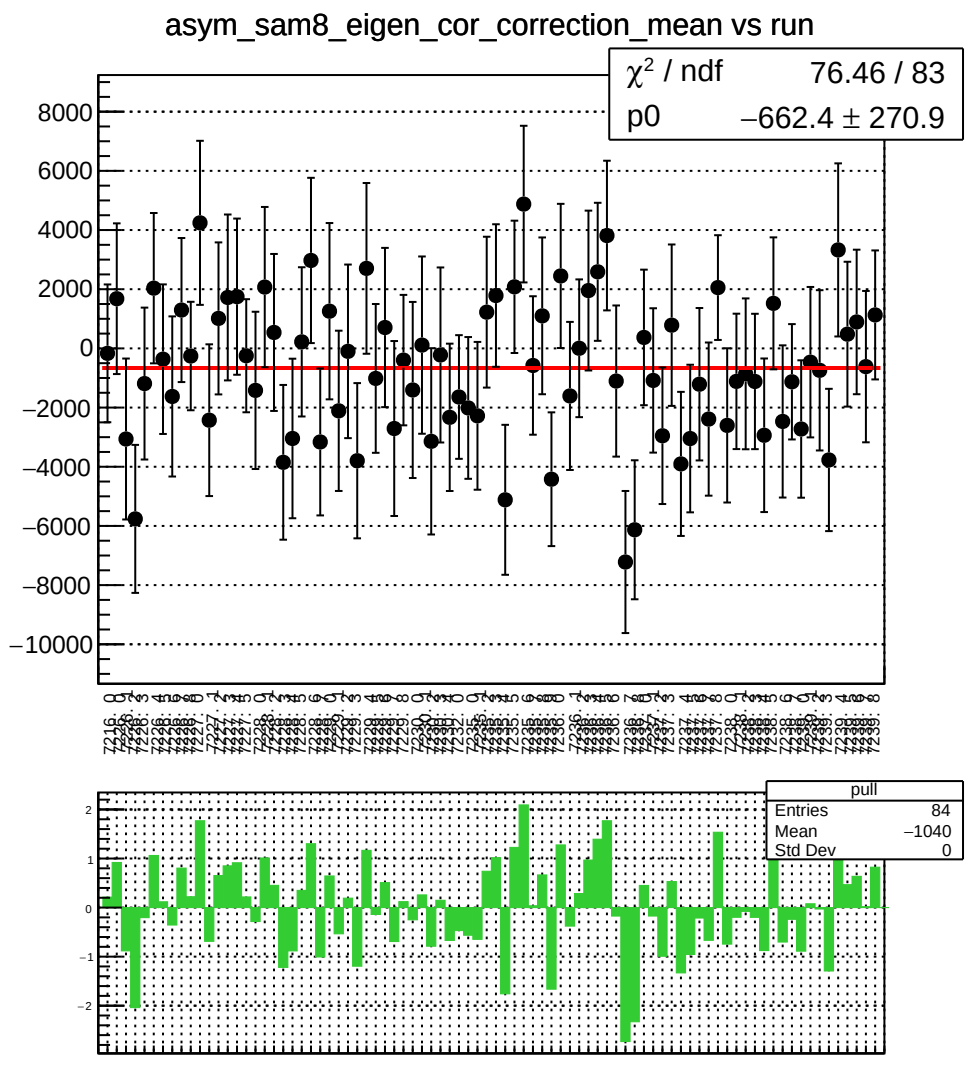

asym_sam8_cor_correction_mean vs run
χ² / ndf 76.46 / 83
p0 −662.4 ± 270.9
pull
Entries 84
Mean −1040
Std Dev 0

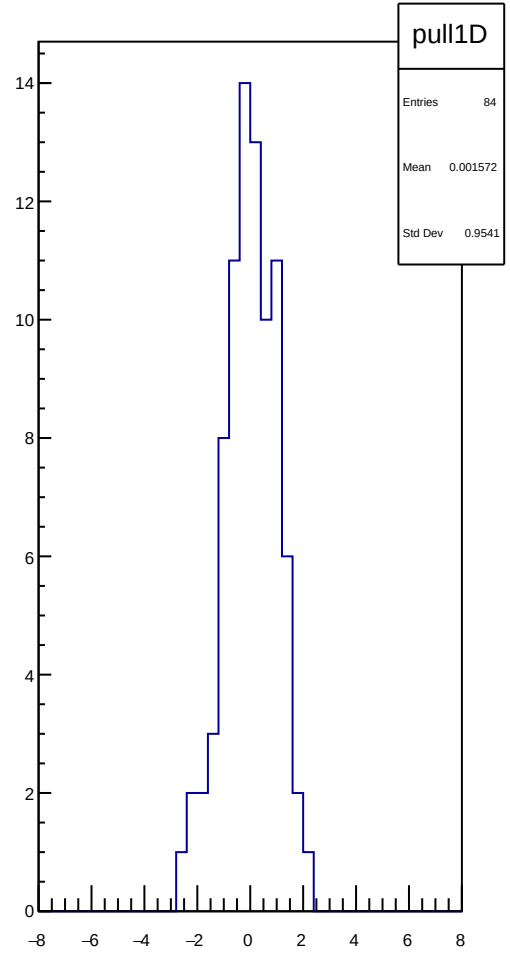

pull1D
Entries 84
Mean 0.001572
Std Dev 0.9541

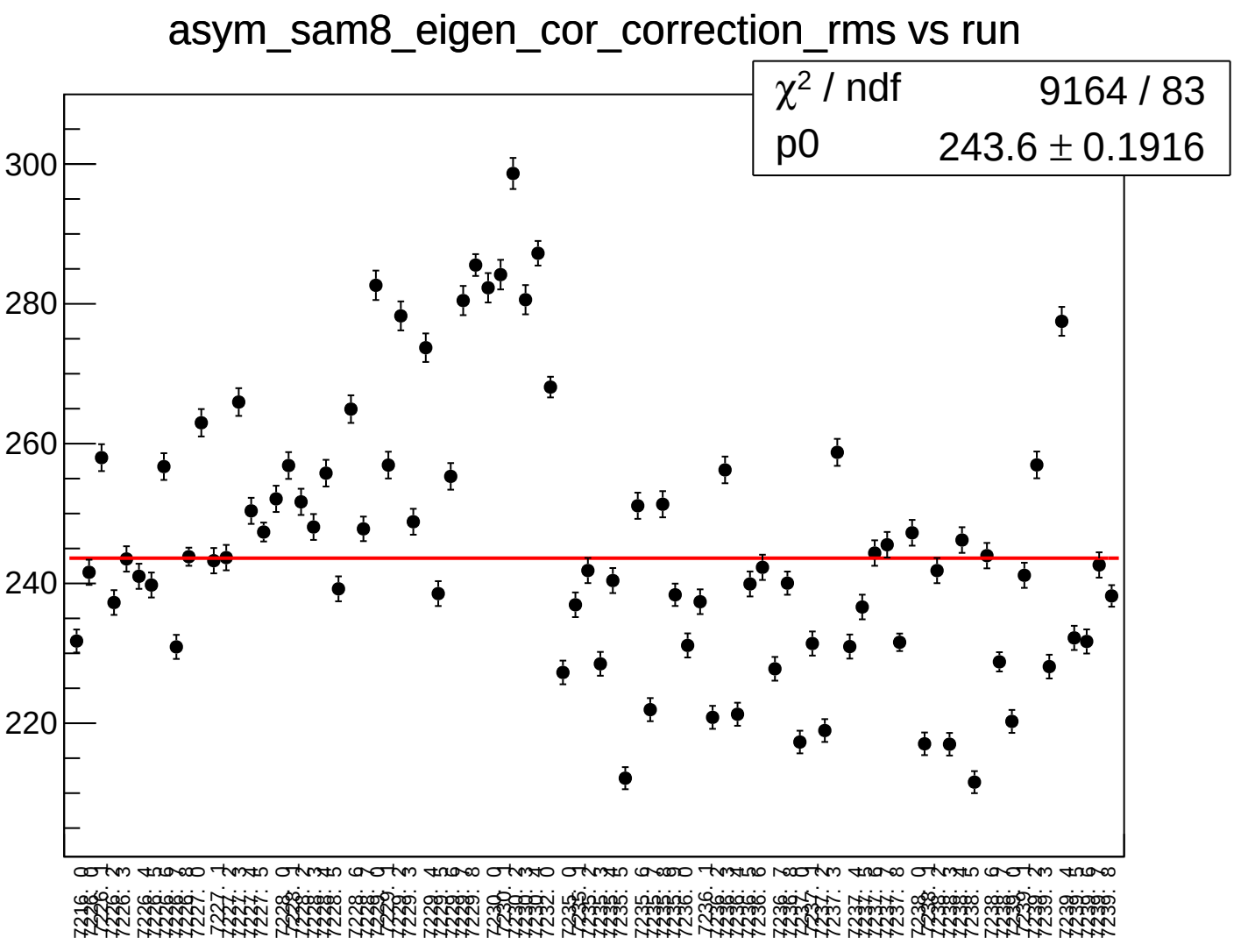

asym_sam8_cor_correction_rms vs run
χ² / ndf 9164 / 83
p0 243.6 ± 0.1916
300
280
260
240
220

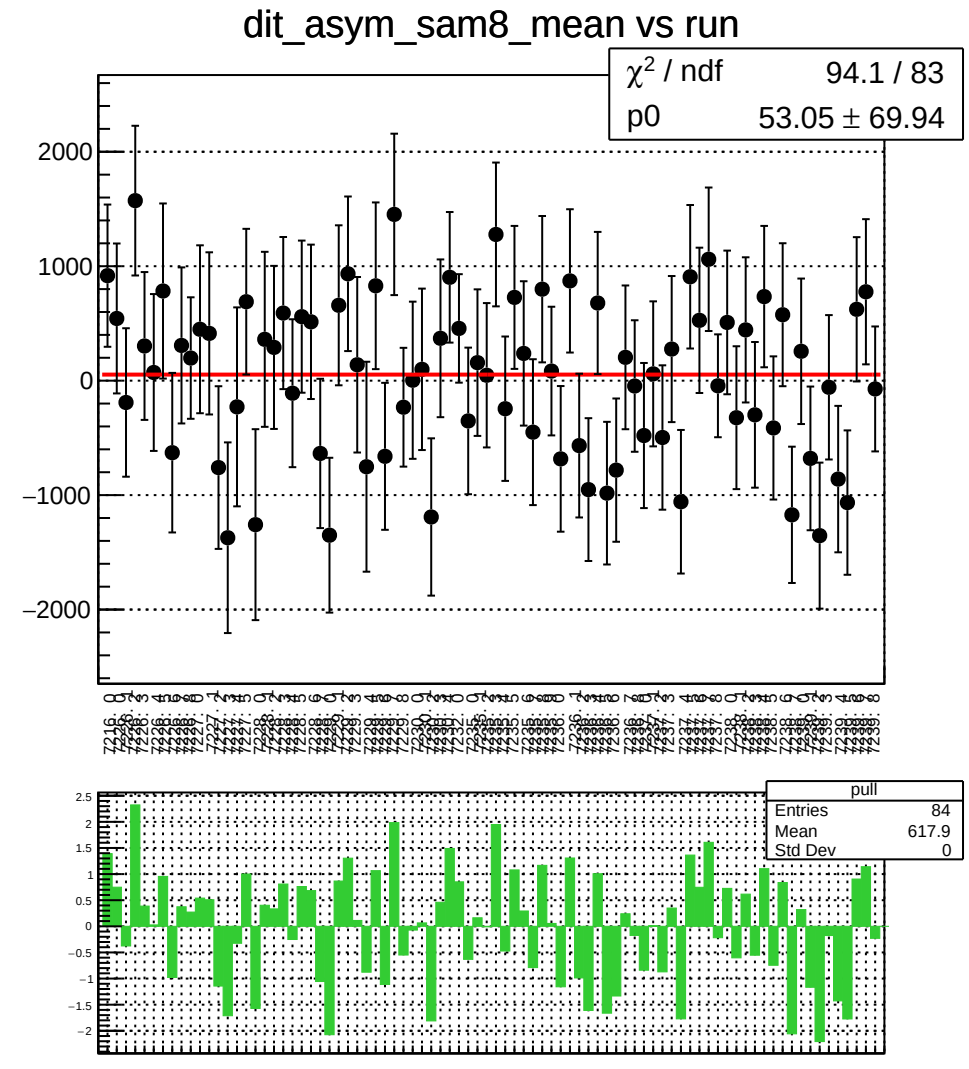

eigen_cor_asym_sam8_mean vs run
χ² / ndf 90.1 / 83
p0 123.6 ± 62.35
pull
Entries 84
Mean 517
Std Dev 0
pull1D
Entries 84
Mean −0.0062
Std Dev 1.036

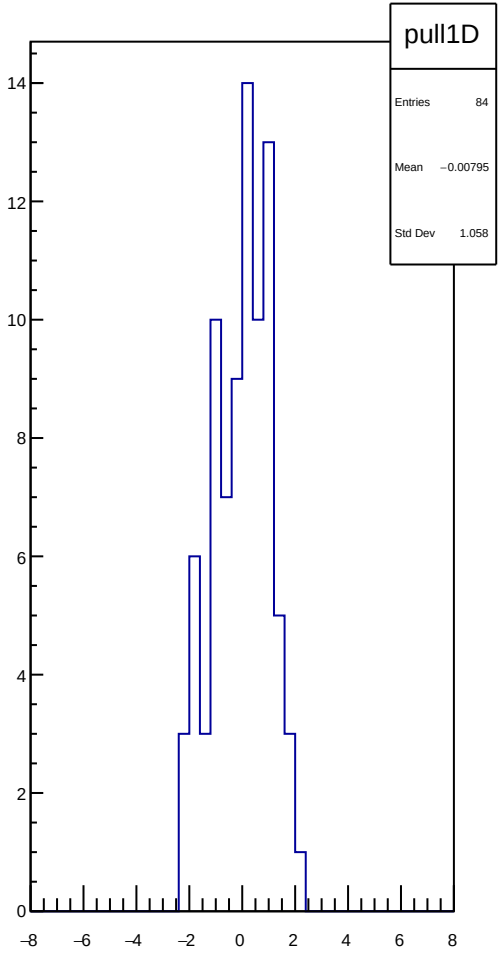

eigen_cor_asym_sam8_rms vs run
χ² / ndf 3974 / 83
p0 56.16 ± 0.04409
68
66
64
62
60
58
56
54
52

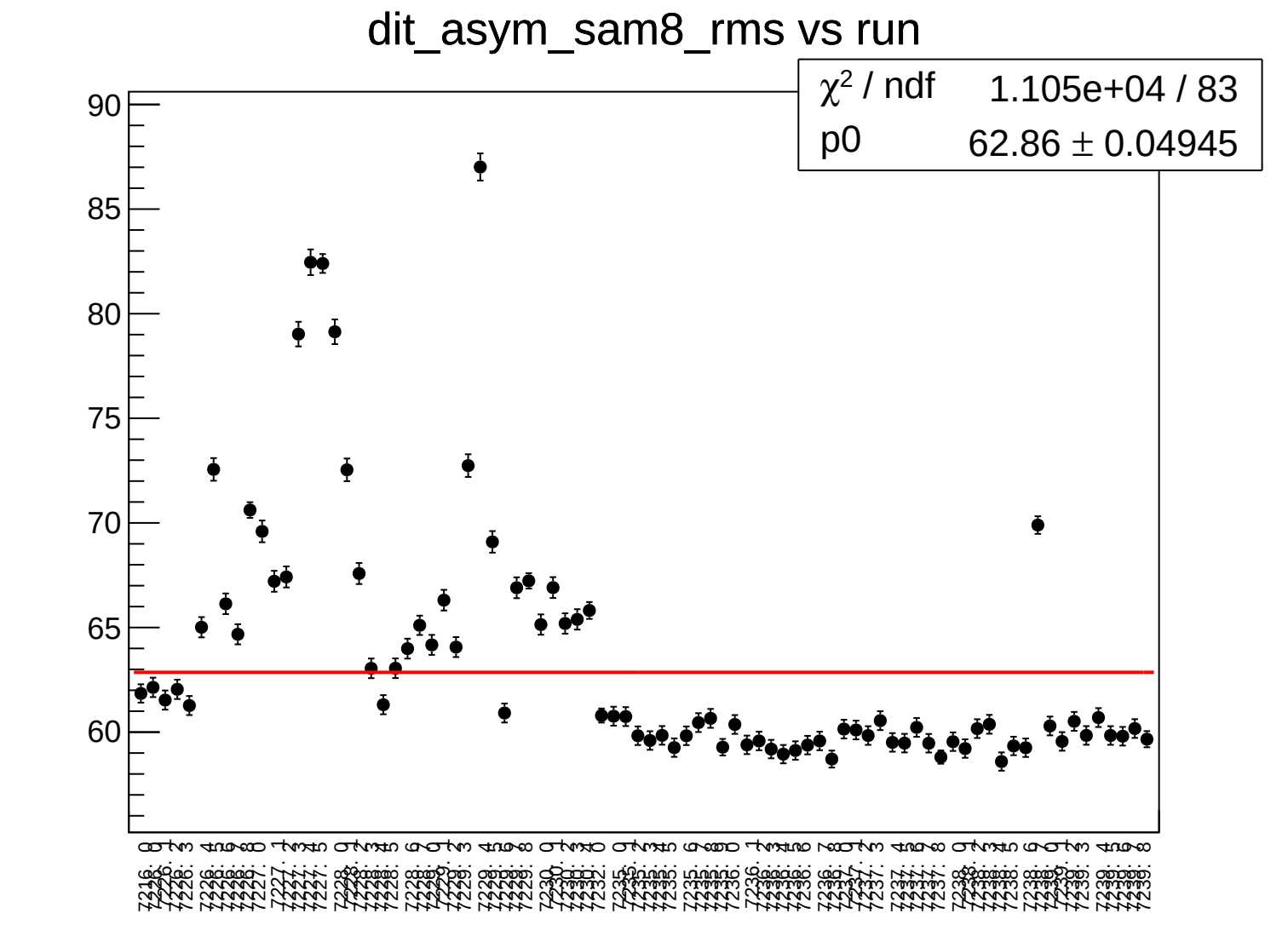

asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 76.46 / 83
p0 −662.4 ± 270.9
pull
Entries 84
Mean −1040
Std Dev 0

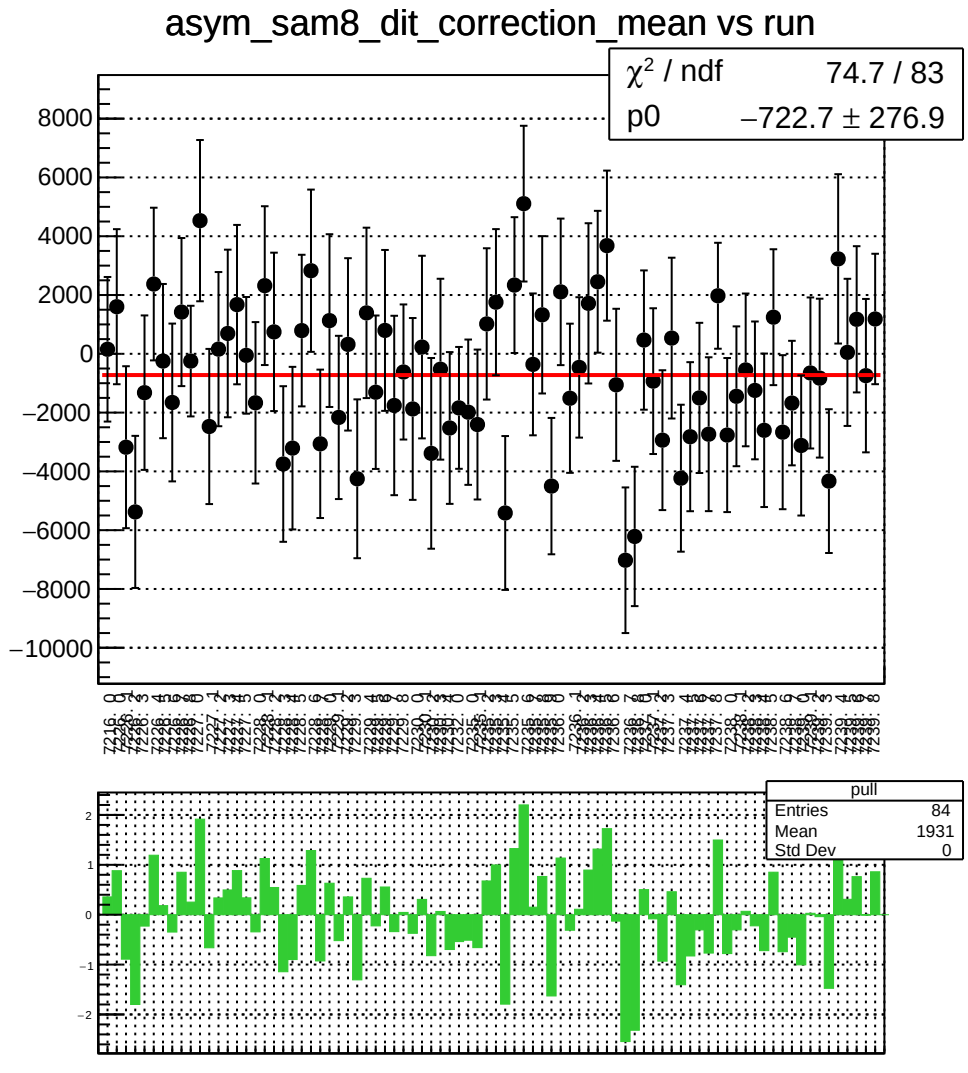

pull1D
Entries 84
Mean 0.001572
Std Dev 0.9541

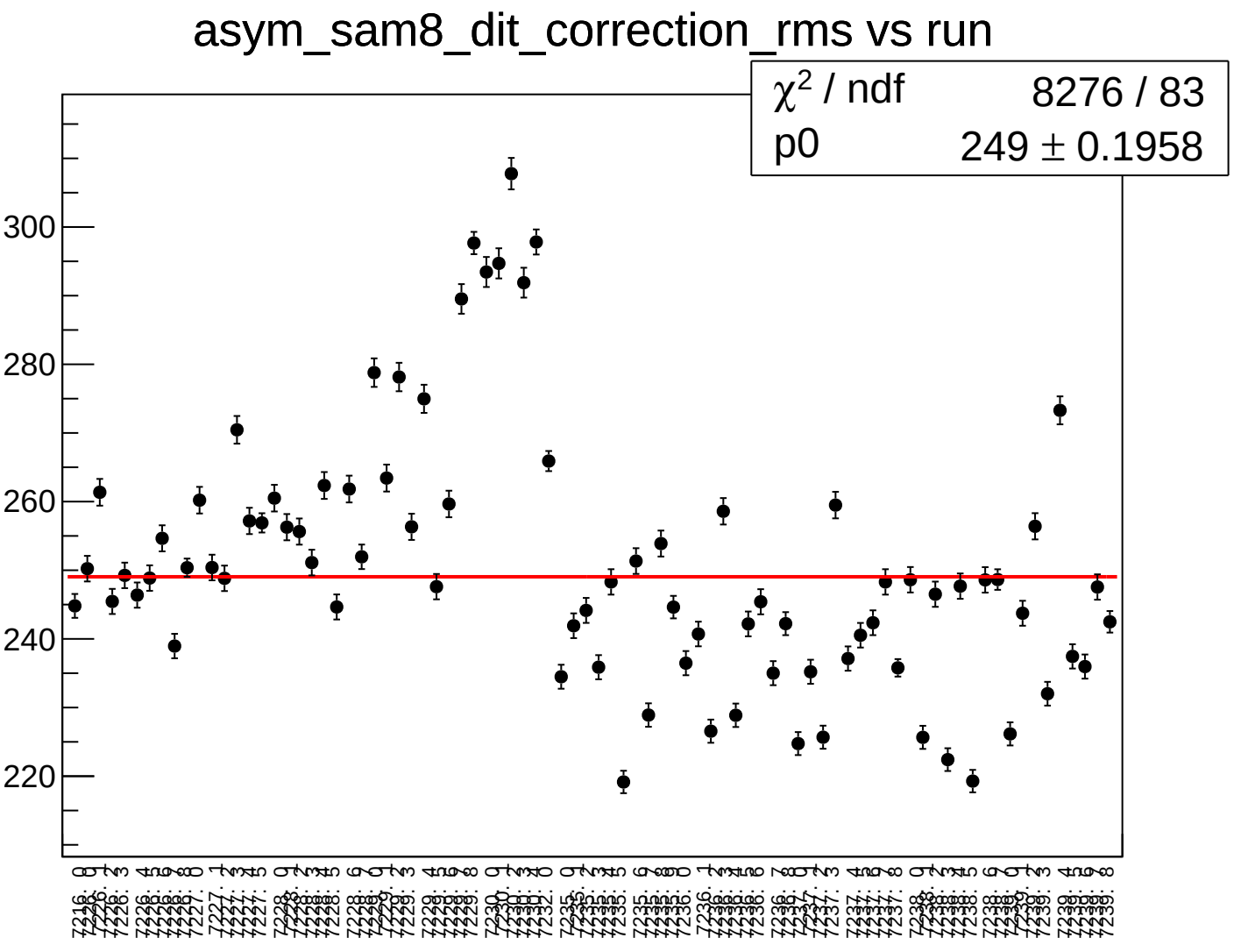

asym_sam8_eigen_cor_correction_rms vs run
χ² / ndf 9164 / 83
p0 243.6 ± 0.1916
300
280
260
240
220

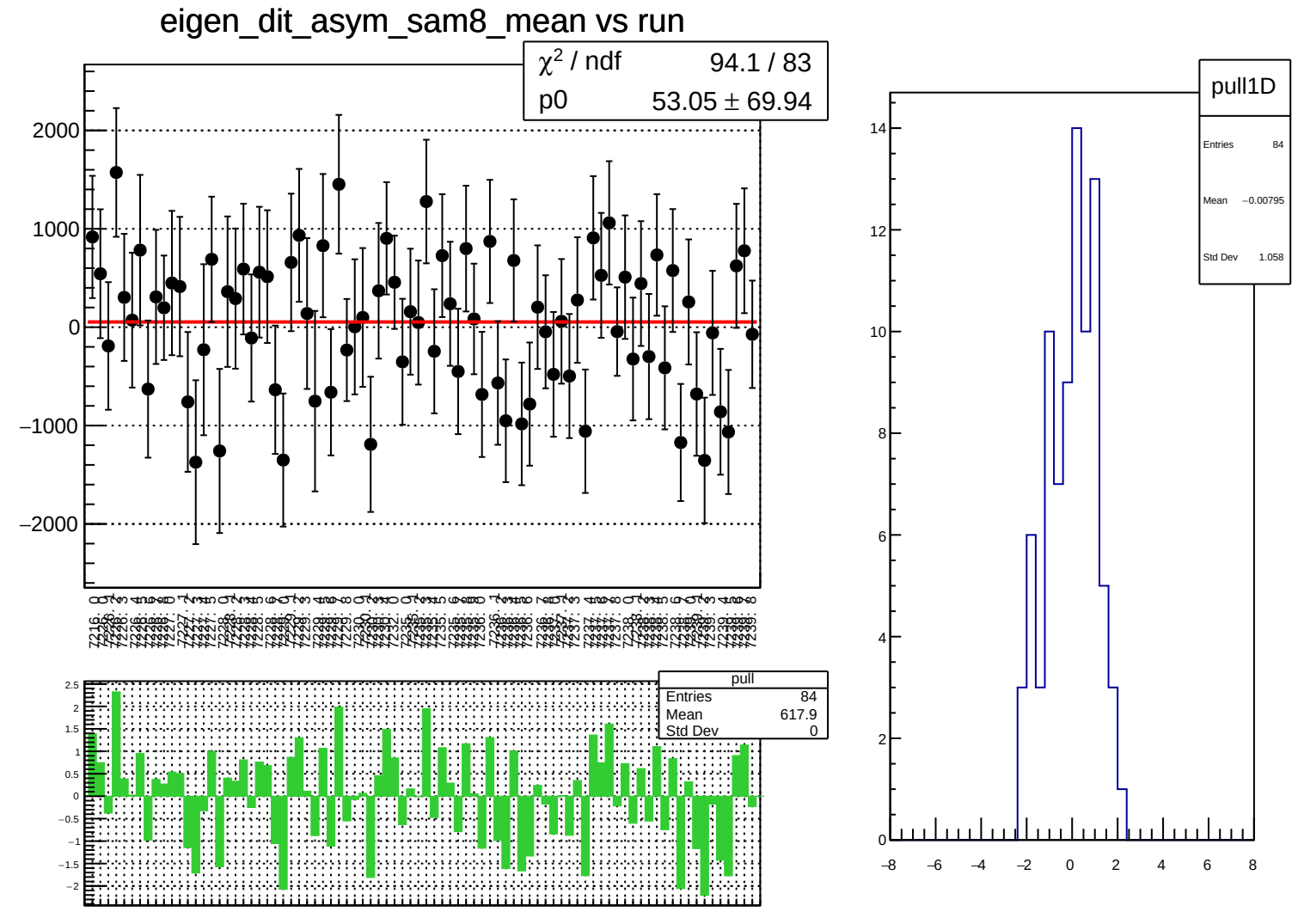

dit_asym_sam8_mean vs run
χ^2 / ndf 94.1 / 83
p0 53.05 ± 69.94
2000
1000
0
−1000
−2000
pull
Entries 84
Mean 617.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

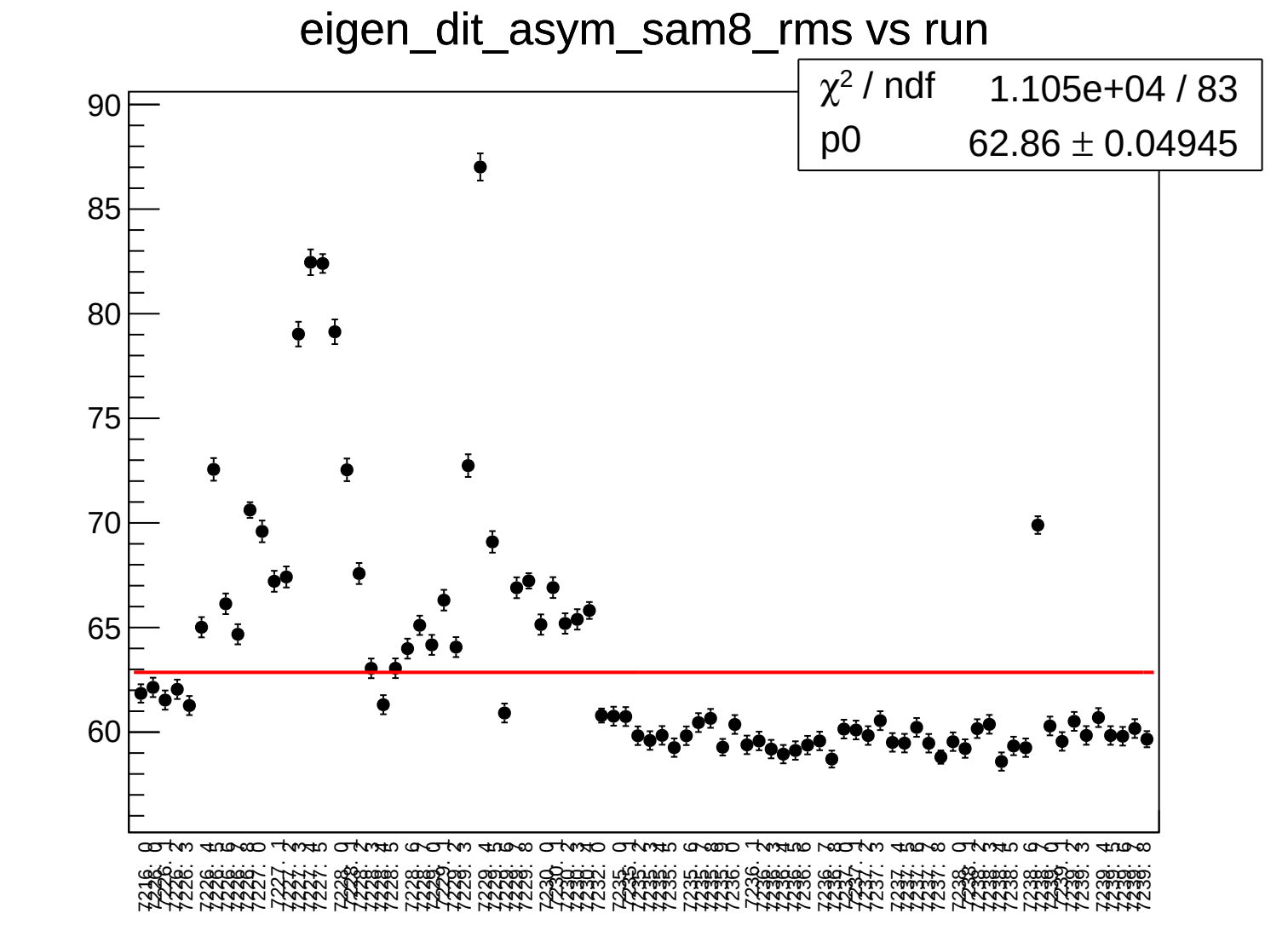

pull1D
Entries 84
Mean −0.00795
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

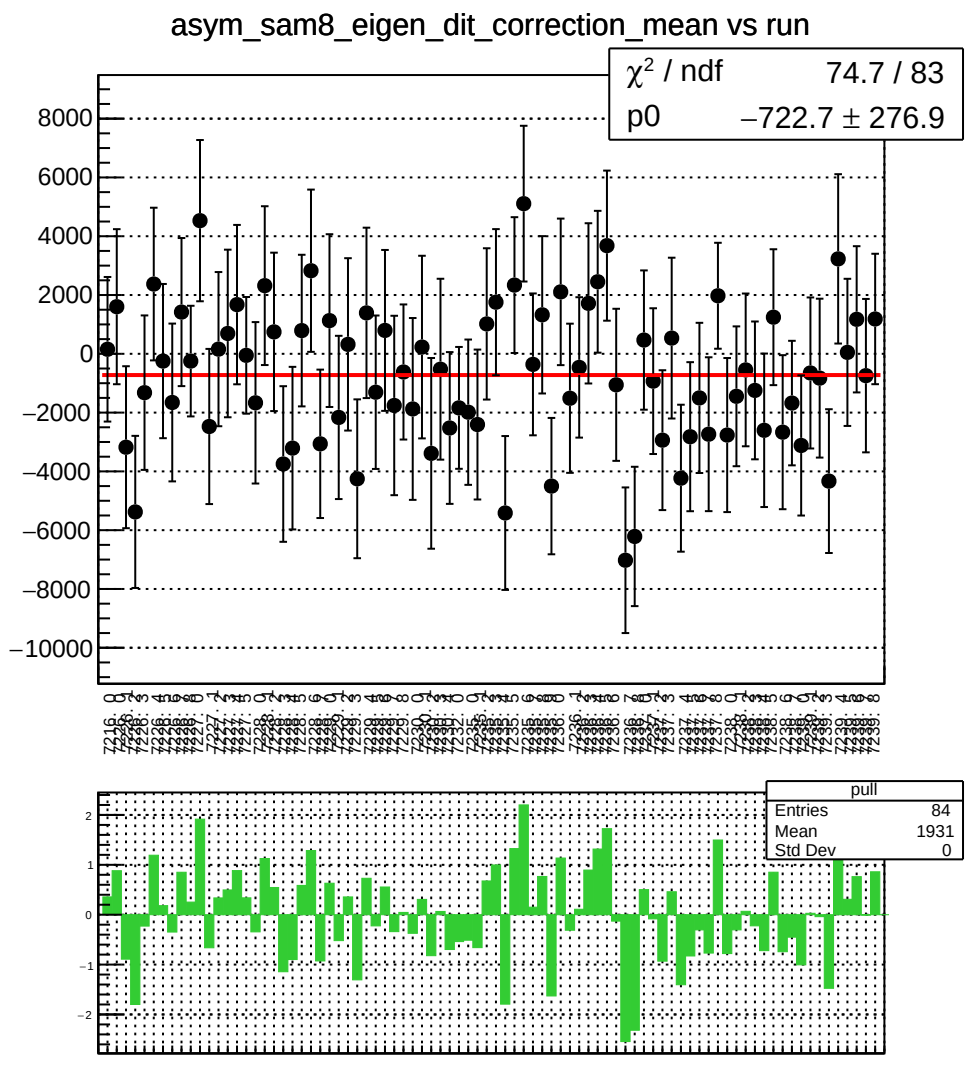

dit_asym_sam8_rms vs run
χ^2 / ndf 1.105e+04 / 83
p0 62.86 ± 0.04945
90
85
80
75
70
65
60

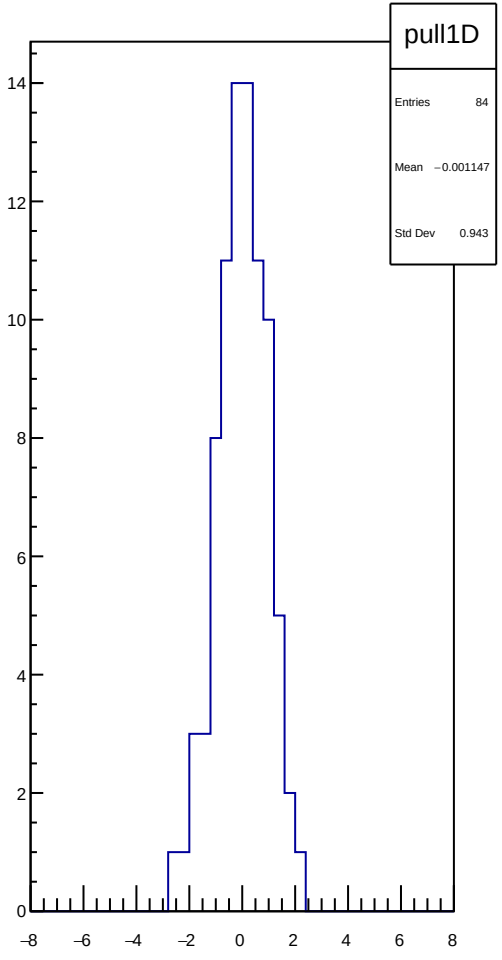

asym_sam8_dit_correction_mean vs run
χ² / ndf 74.7 / 83
p0 −722.7 ± 276.9
pull
Entries 84
Mean 1931
Std Dev 0
pull1D
Entries 84
Mean −0.001147
Std Dev 0.943

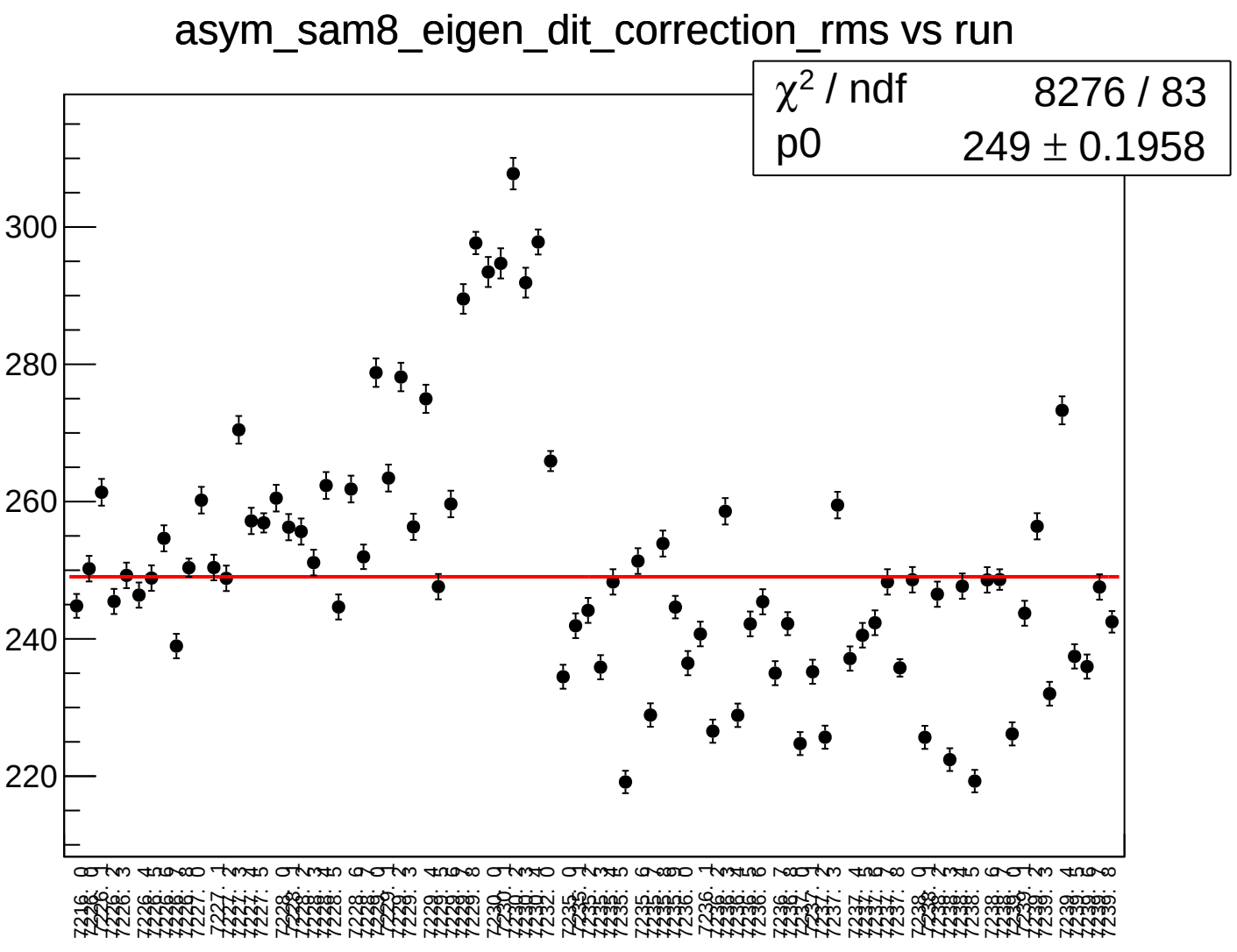

asym_sam8_dit_correction_rms vs run
χ^2 / ndf 8276 / 83
p0 249 ± 0.1958
300
280
260
240
220

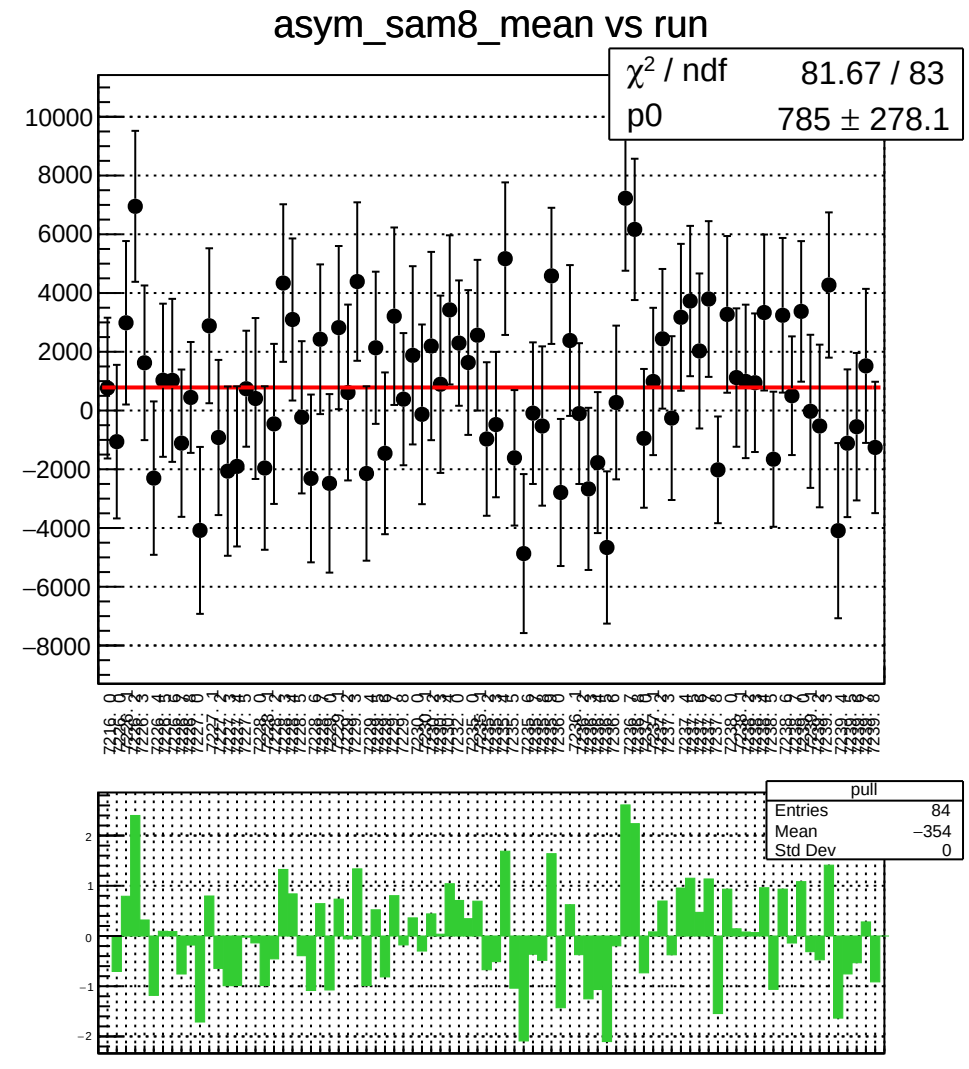

eigen_dit_asym_sam8_mean vs run
χ² / ndf 94.1 / 83
p0 53.05 ± 69.94
2000
1000
0
−1000
−2000
pull
Entries 84
Mean 617.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 84
Mean −0.00795
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

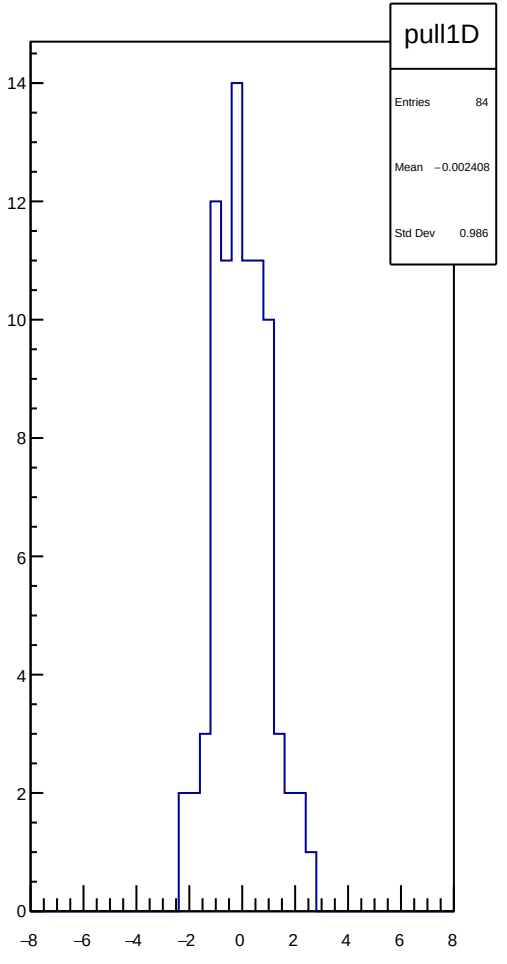

eigen_dit_asym_sam8_rms vs run
χ^2 / ndf 1.105e+04 / 83
p0 62.86 ± 0.04945
90
85
80
75
70
65
60

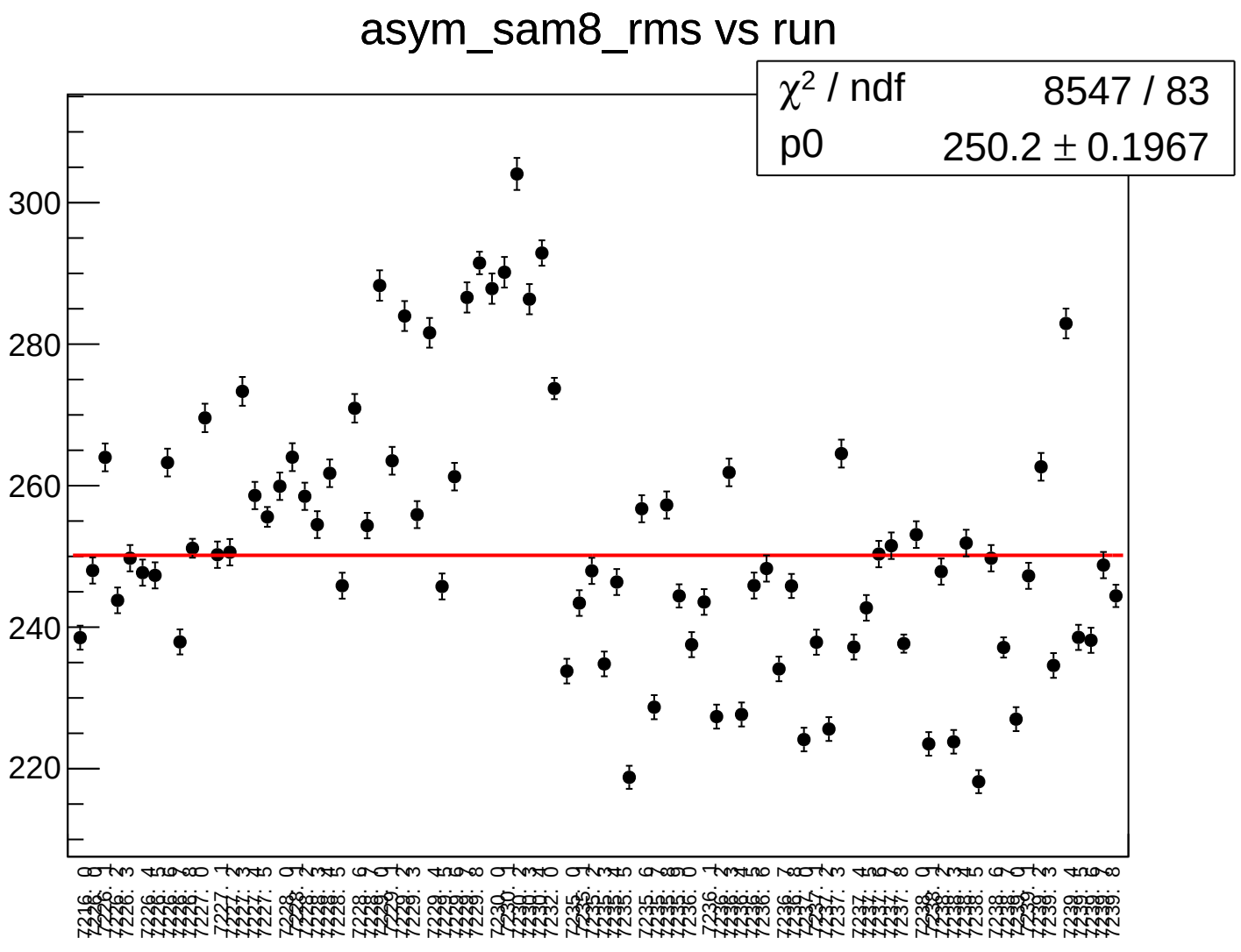

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 74.7 / 83
p0 −722.7 ± 276.9
pull
Entries 84
Mean 1931
Std Dev 0

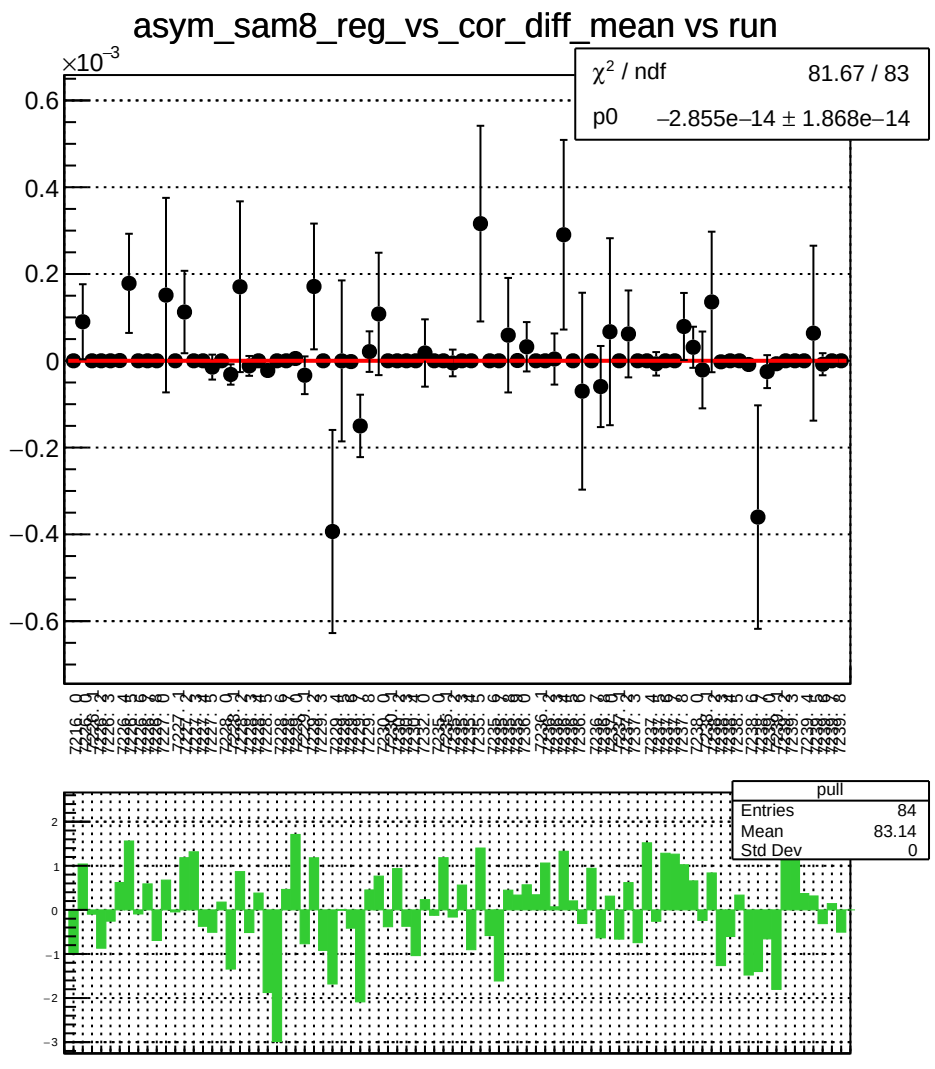

pull1D
Entries 84
Mean −0.001147
Std Dev 0.943

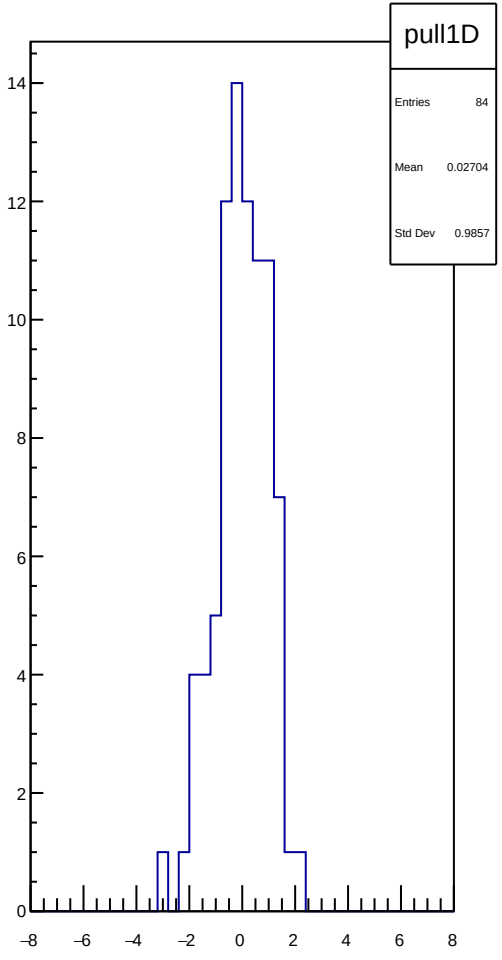

asym_sam8_eigen_dit_correction_rms vs run
χ² / ndf 8276 / 83
p0 249 ± 0.1958
300
280
260
240
220

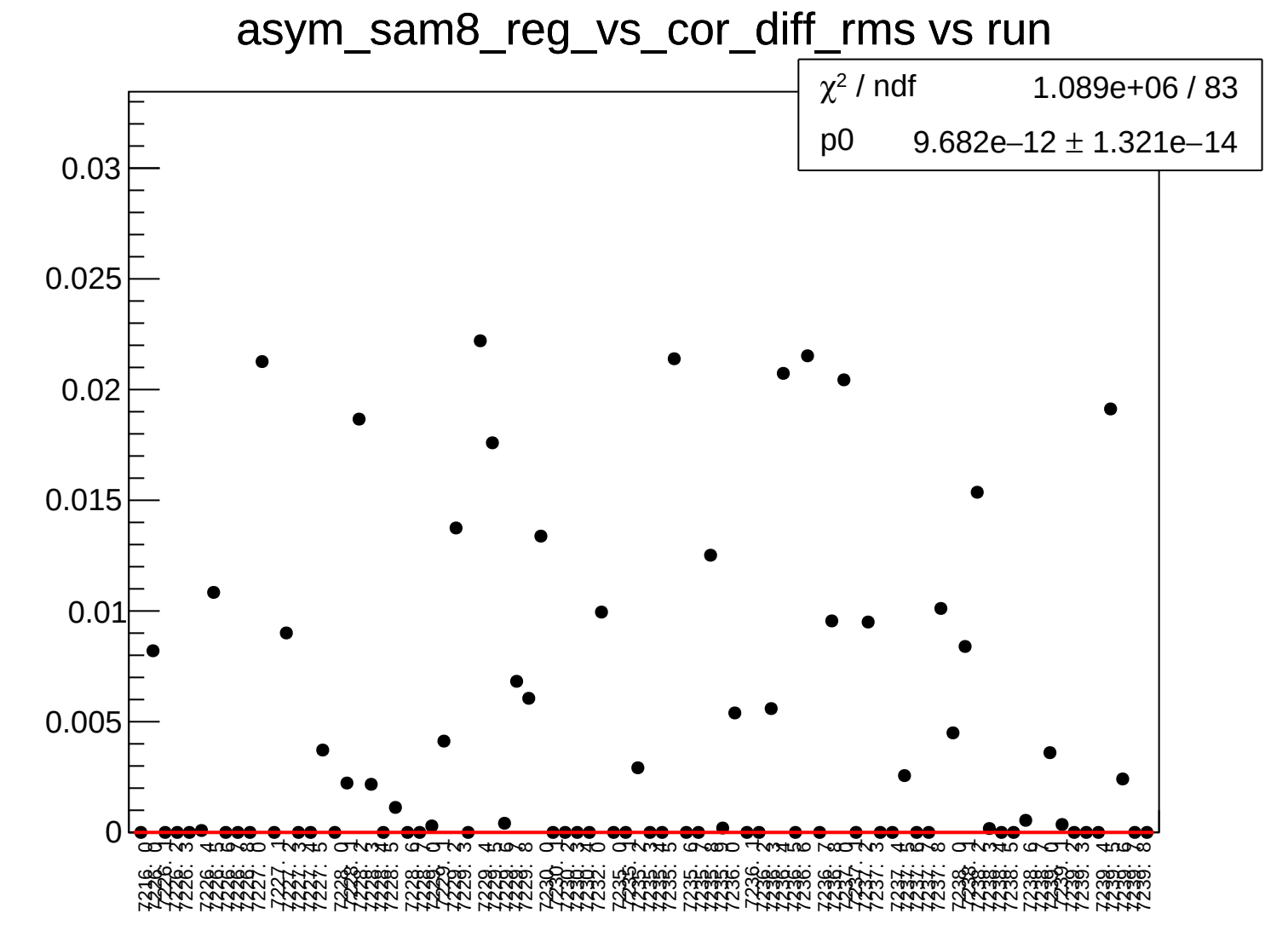

asym_sam8_mean vs run
χ² / ndf 81.67 / 83
p0 785 ± 278.1
pull
Entries 84
Mean −354
Std Dev 0

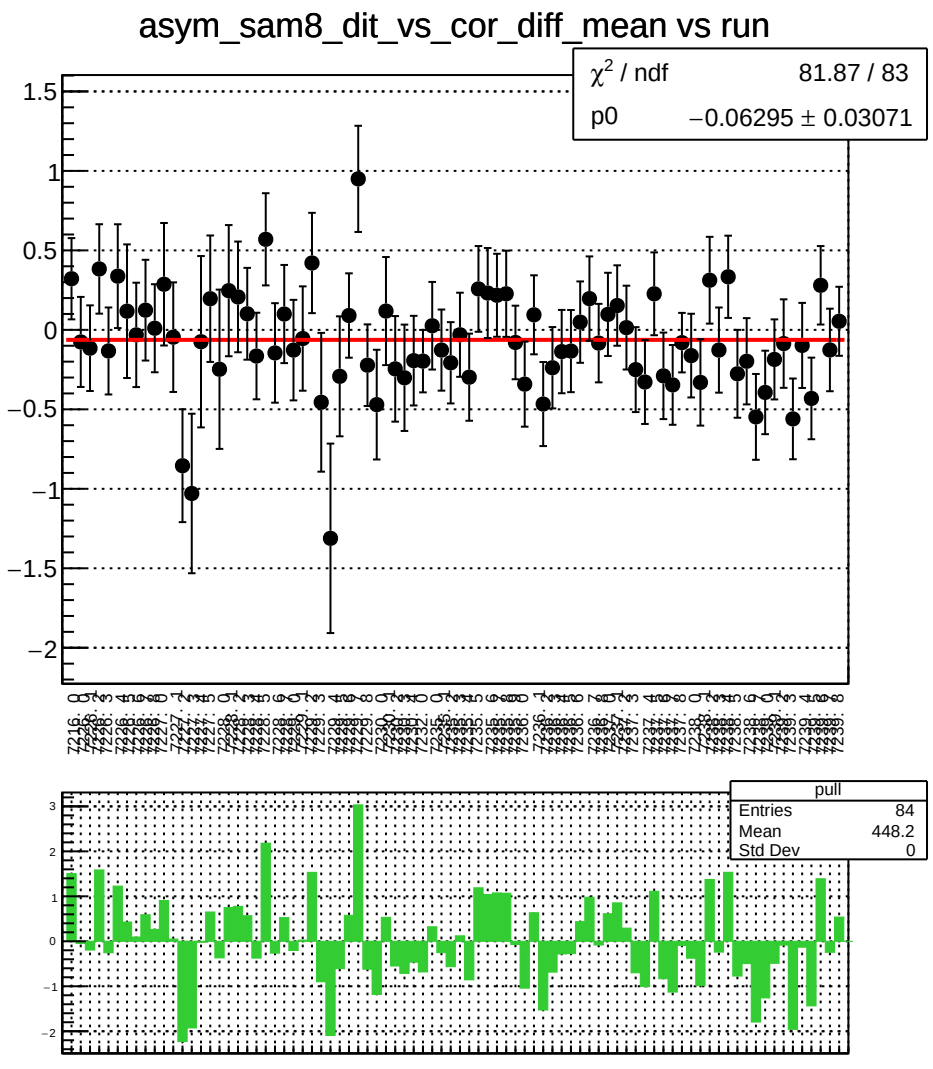

pull1D
Entries 84
Mean −0.002408
Std Dev 0.986

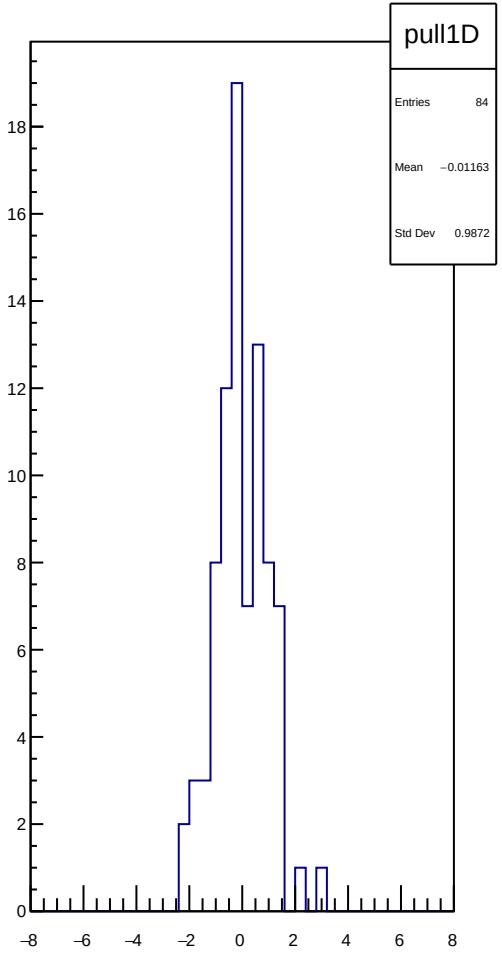

asym_sam8_rms vs run
χ² / ndf 8547 / 83
p0 250.2 ± 0.1967
300
280
260
240
220

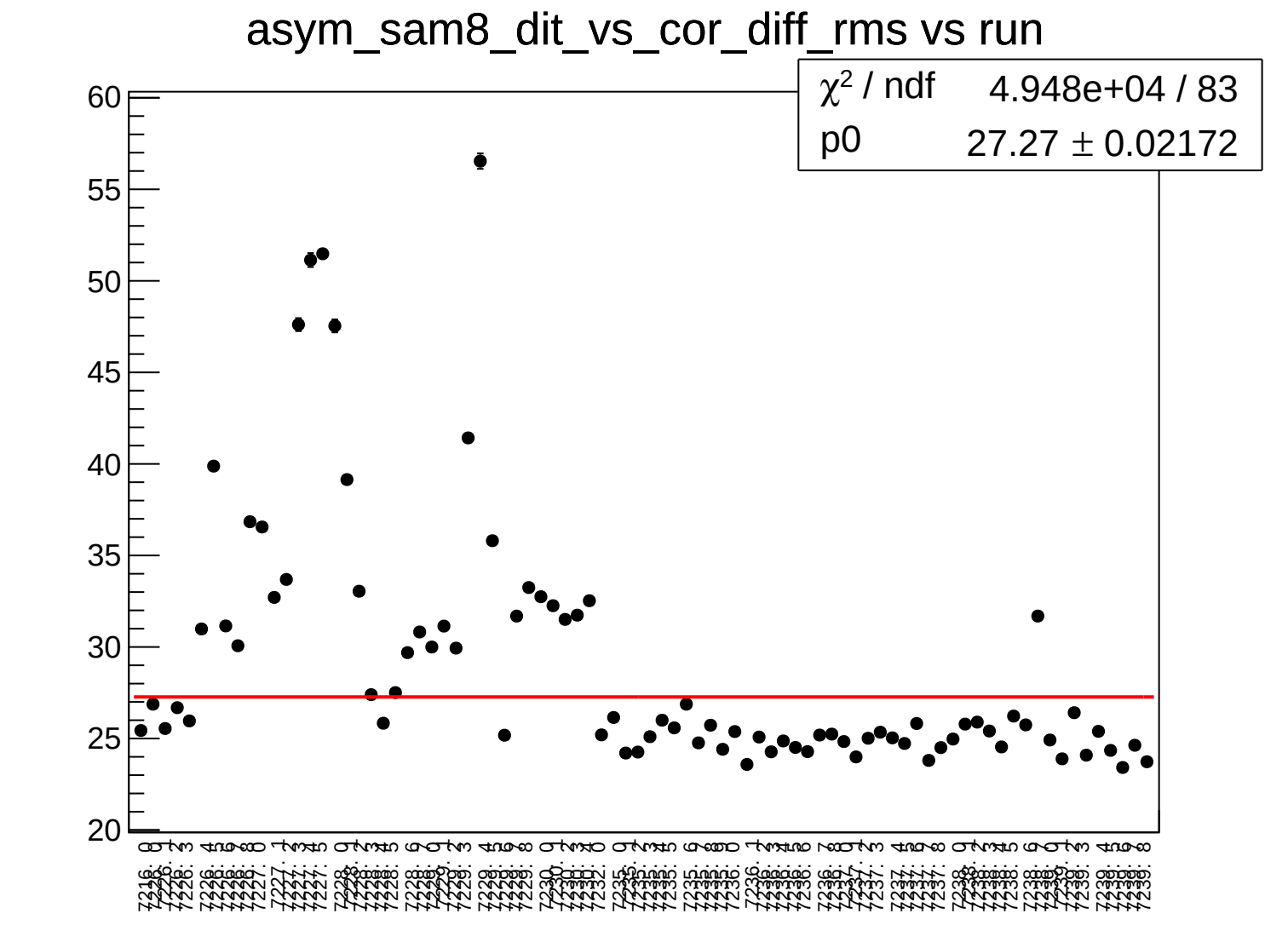

asym_sam8_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 81.67 / 83
p0 −2.855e−14 ± 1.868e−14
pull
Entries 84
Mean 83.14
Std Dev 0

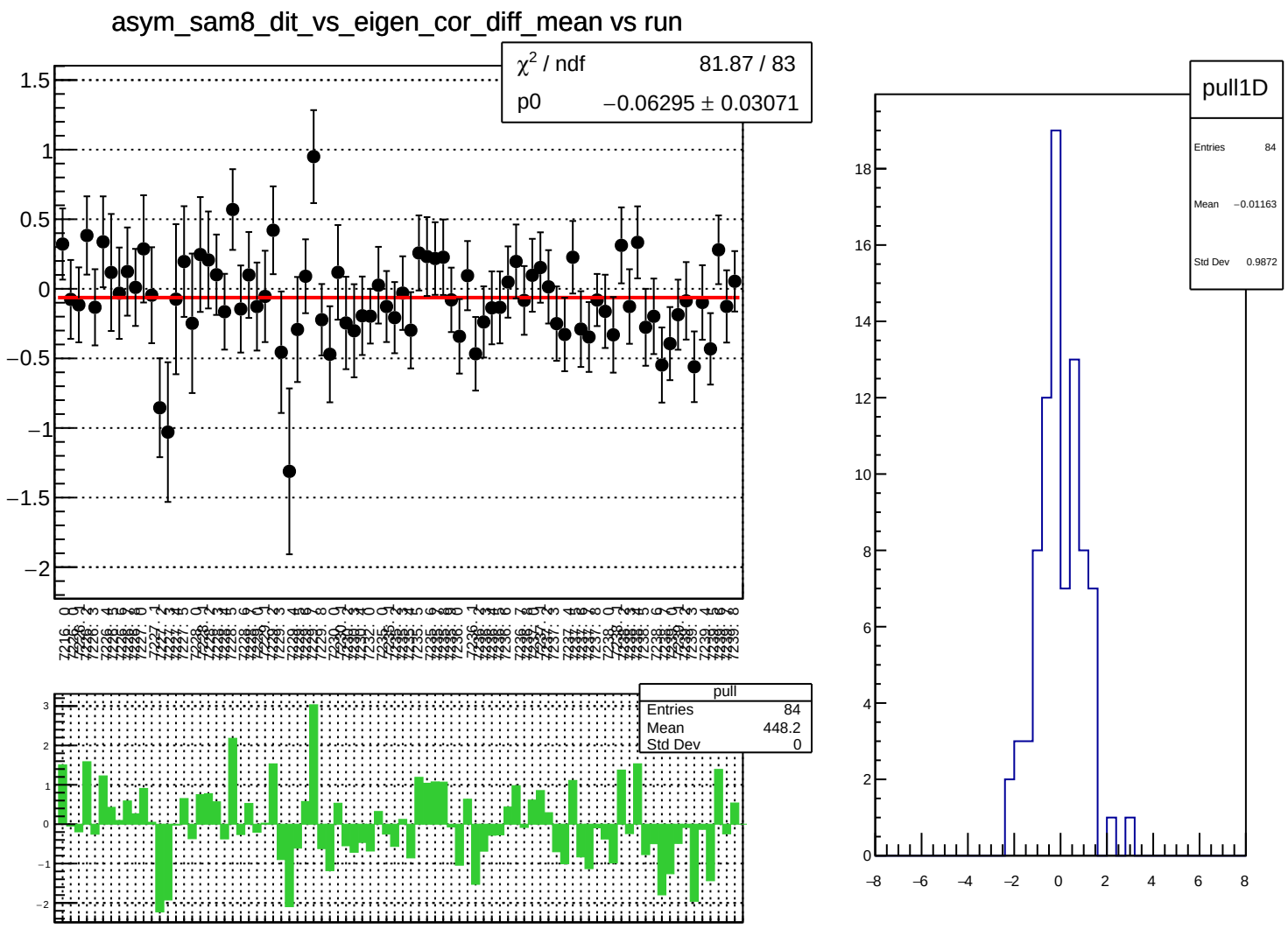

pull1D
Entries 84
Mean 0.02704
Std Dev 0.9857

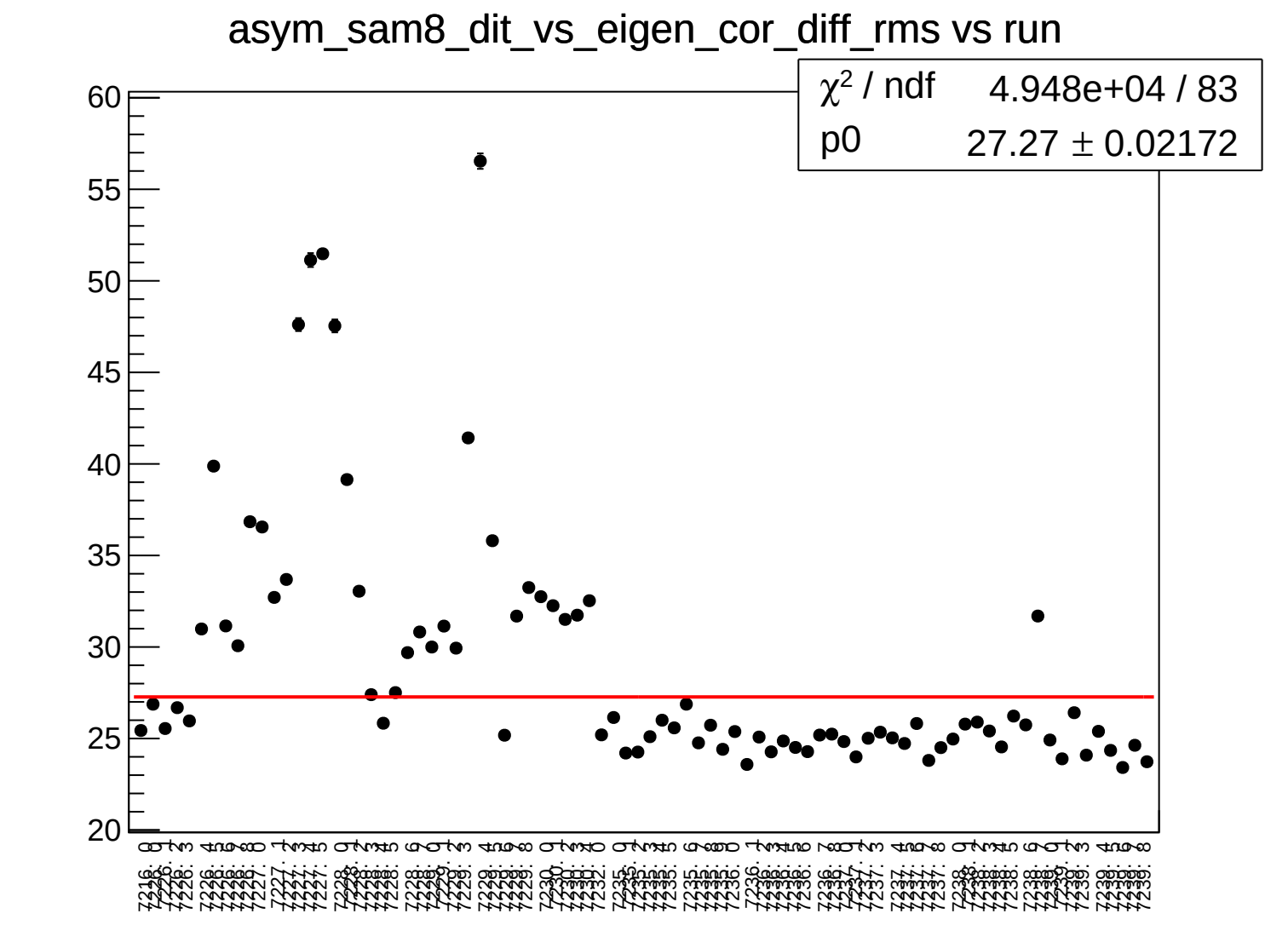

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 1.089e+06 / 83
p0 9.682e−12 ± 1.321e−14
0.03
0.025
0.02
0.015
0.01
0.005
0

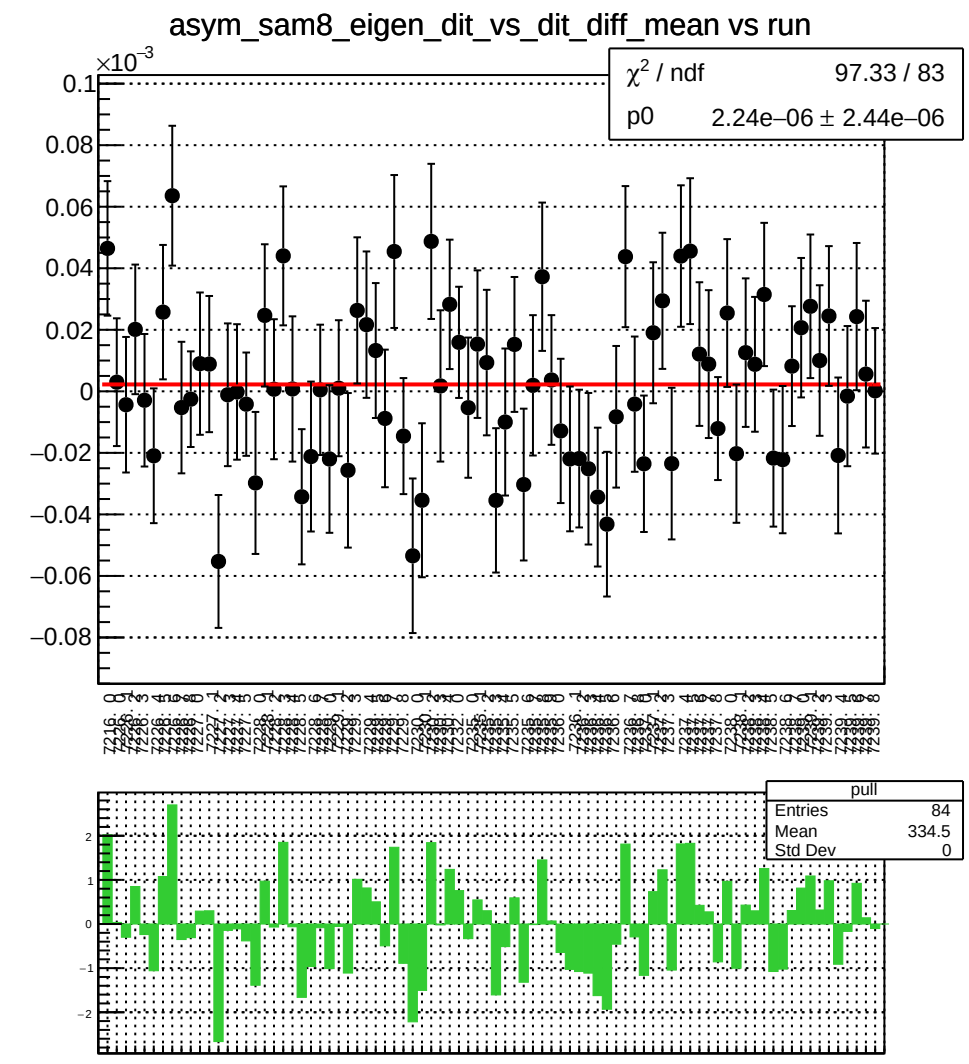

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 81.87 / 83
p0 −0.06295 ± 0.03071
pull
Entries 84
Mean 448.2
Std Dev 0

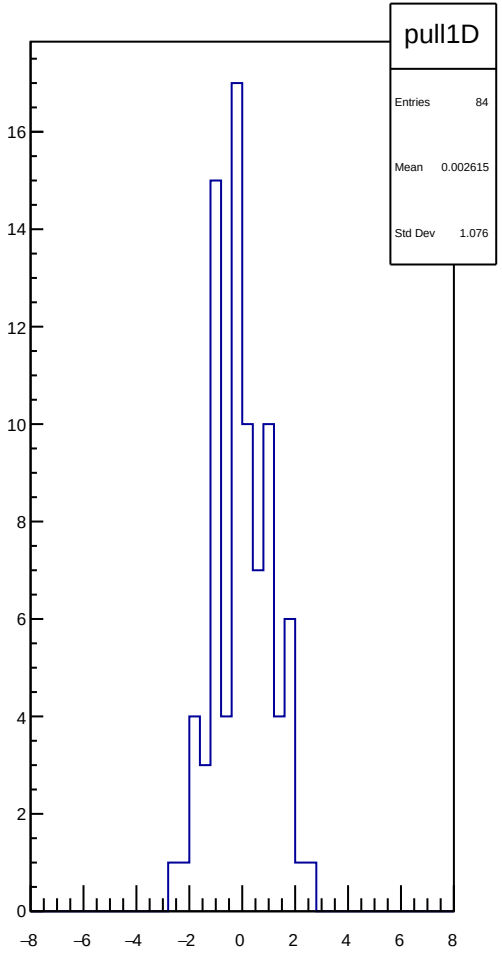

pull1D
Entries 84
Mean −0.01163
Std Dev 0.9872

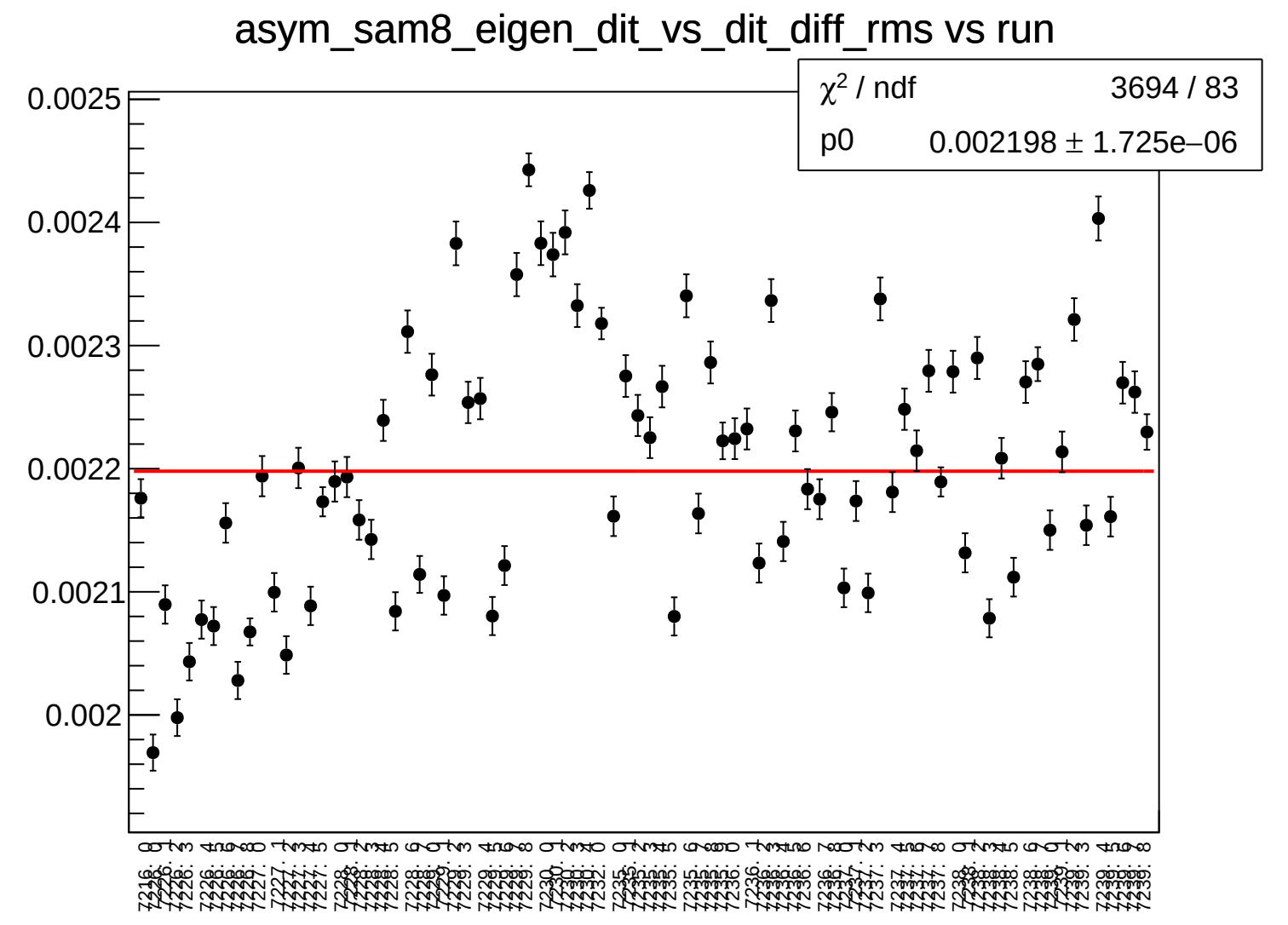

asym_sam8_dit_vs_cor_diff_rms vs run
χ² / ndf 4.948e+04 / 83
p0 27.27 ± 0.02172
60
55
50
45
40
35
30
25
20

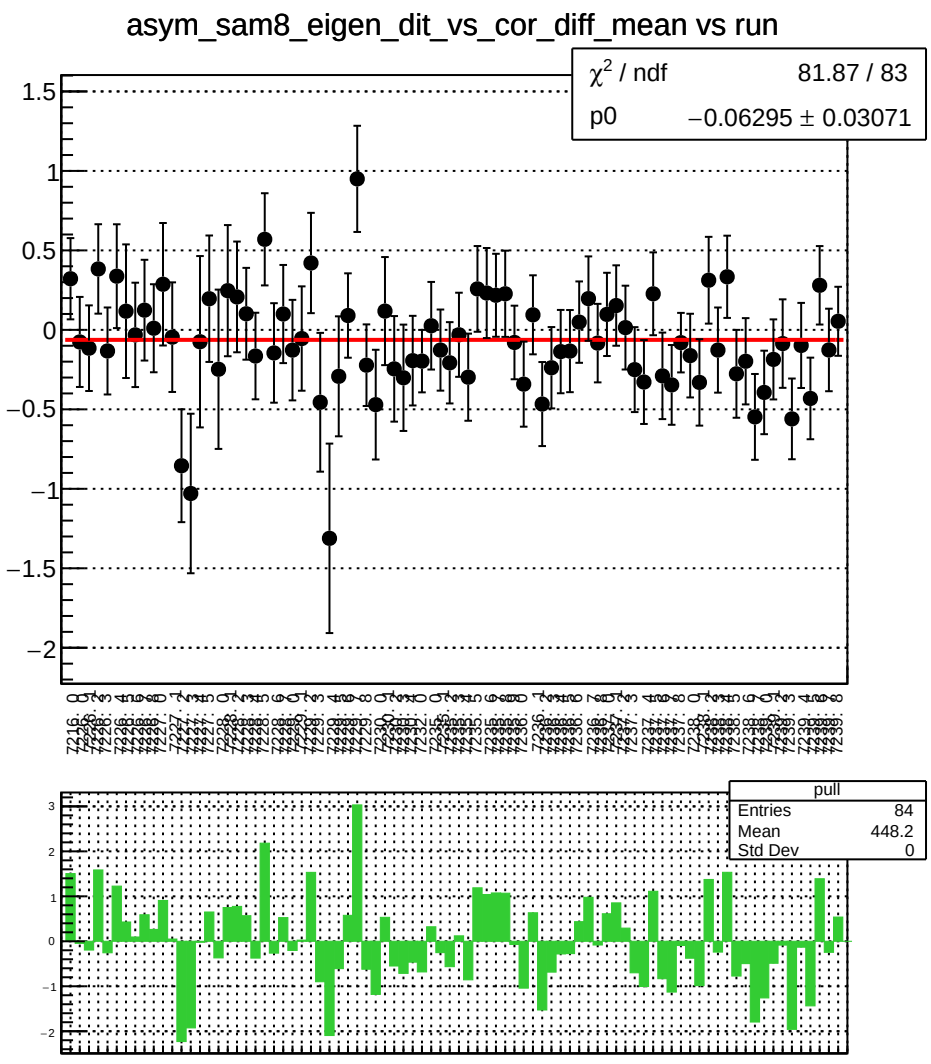

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.87 / 83
p0 −0.06295 ± 0.03071
pull
Entries 84
Mean 448.2
Std Dev 0
pull1D
Entries 84
Mean −0.01163
Std Dev 0.9872

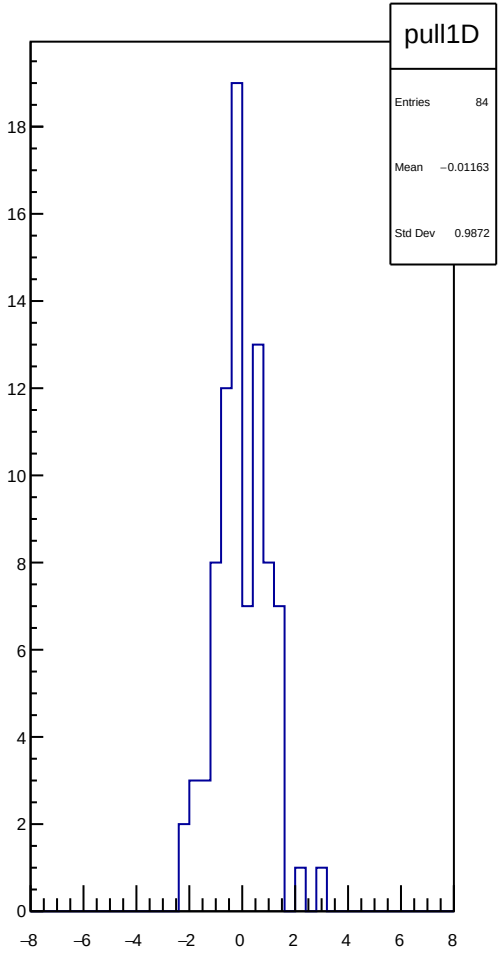

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.948e+04 / 83
p0 27.27 ± 0.02172
60
55
50
45
40
35
30
25
20

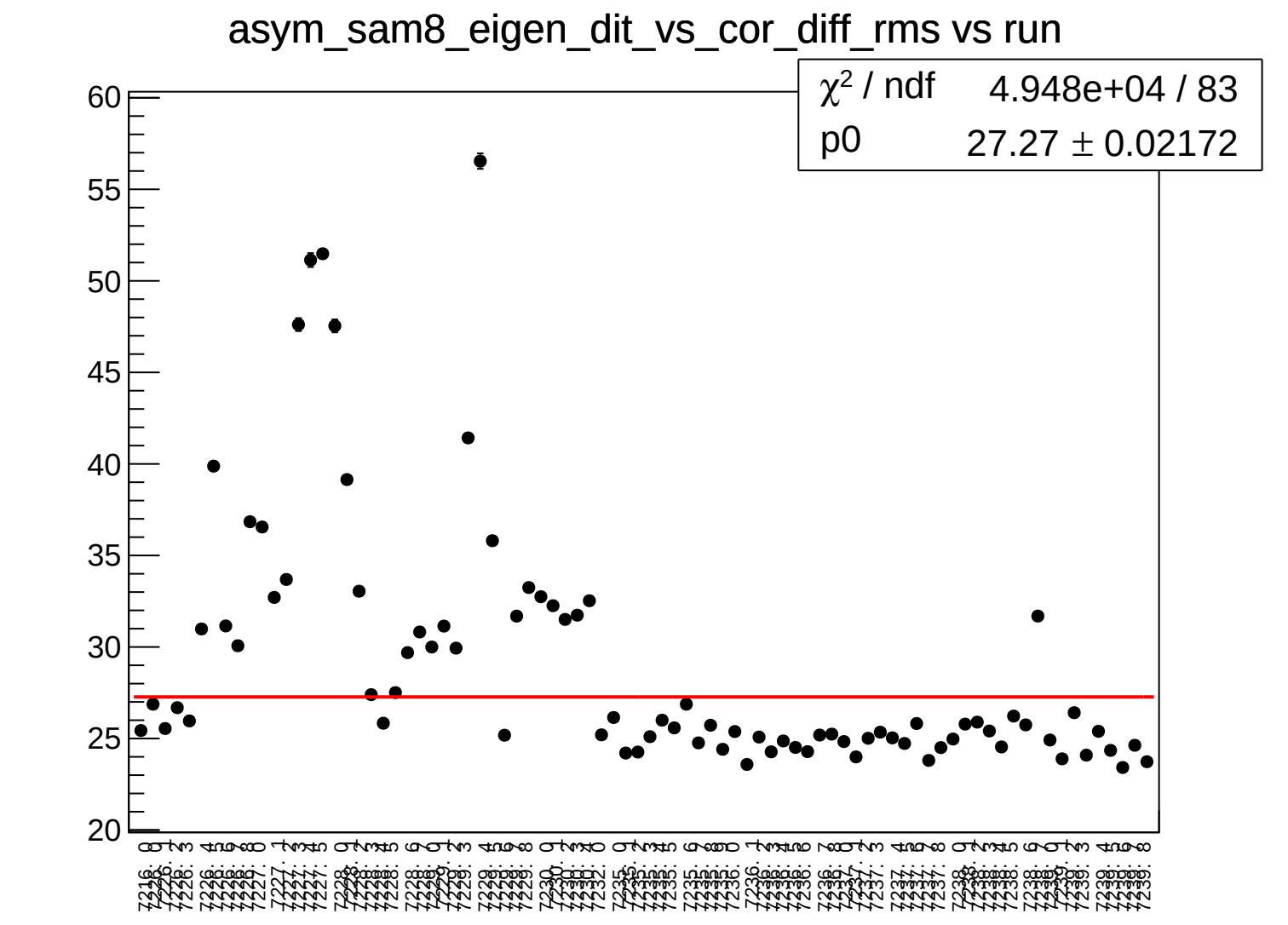

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.33 / 83
p0 2.24e−06 ± 2.44e−06
pull
Entries 84
Mean 334.5
Std Dev 0

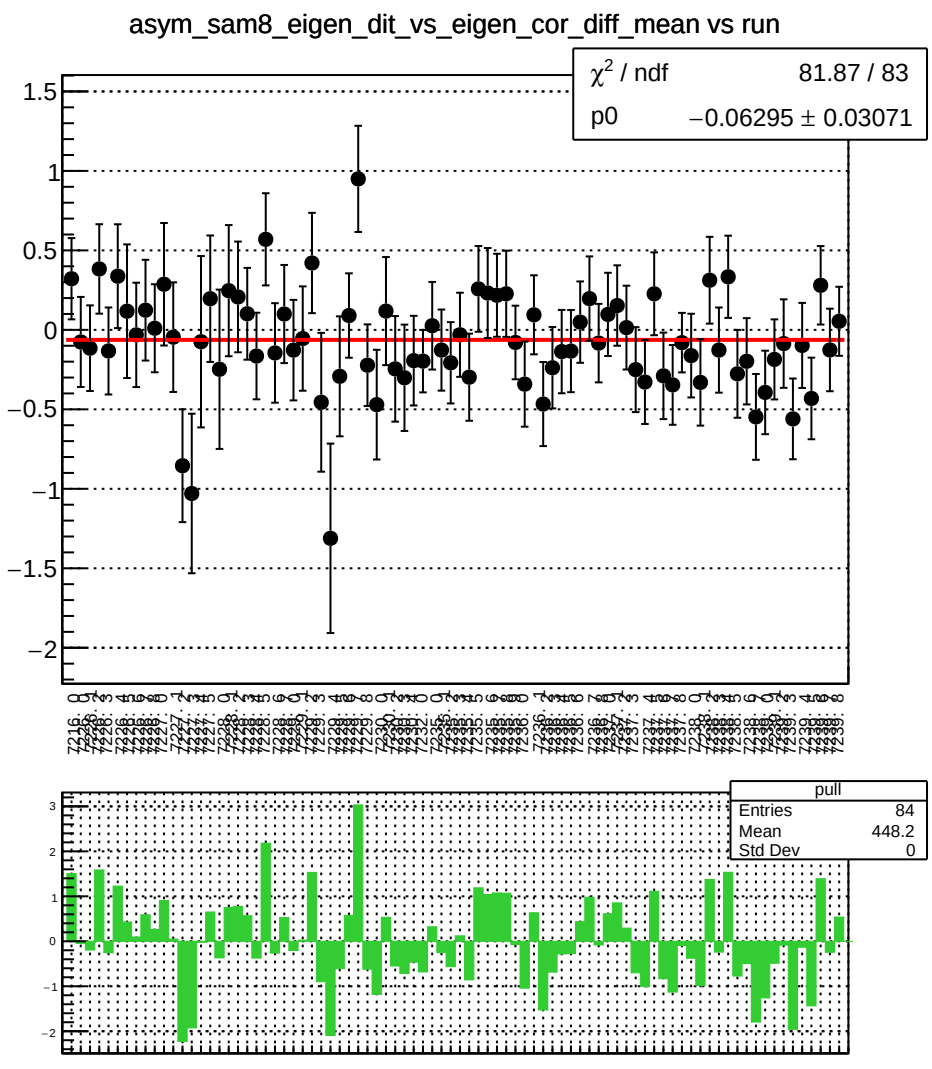

pull1D
Entries 84
Mean 0.002615
Std Dev 1.076

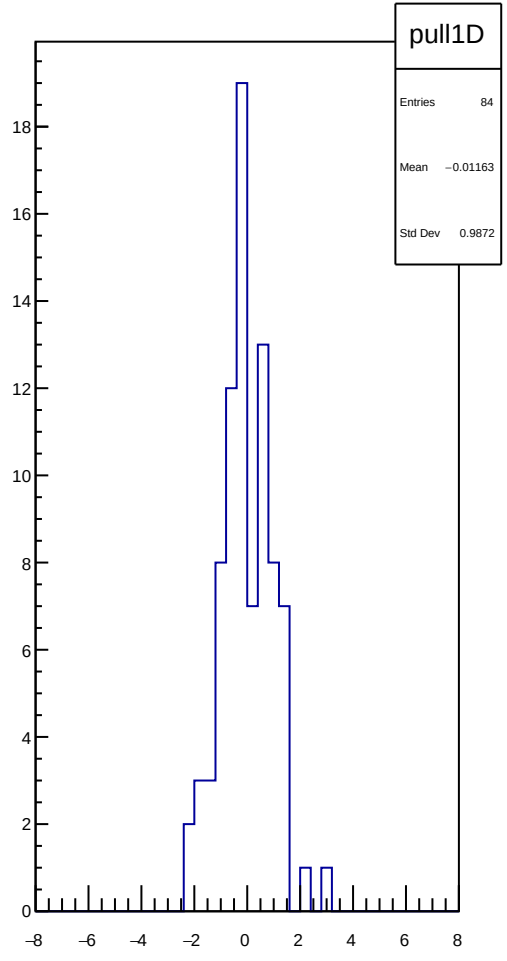

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3694 / 83
p0 0.002198 ± 1.725e−06
0.0025
0.0024
0.0023
0.0022
0.0021
0.002

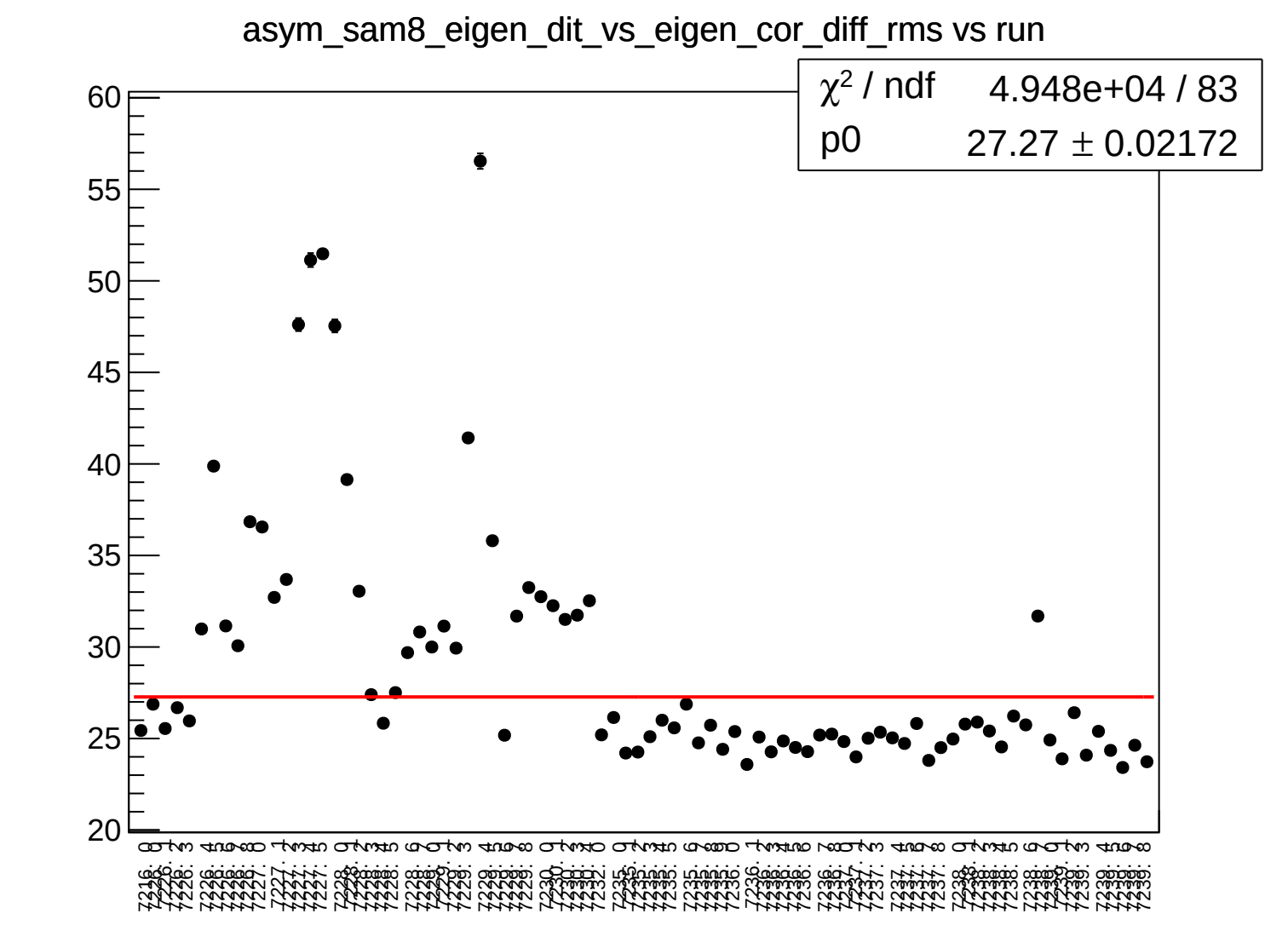

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.87 / 83
p0 −0.06295 ± 0.03071
pull
Entries 84
Mean 448.2
Std Dev 0

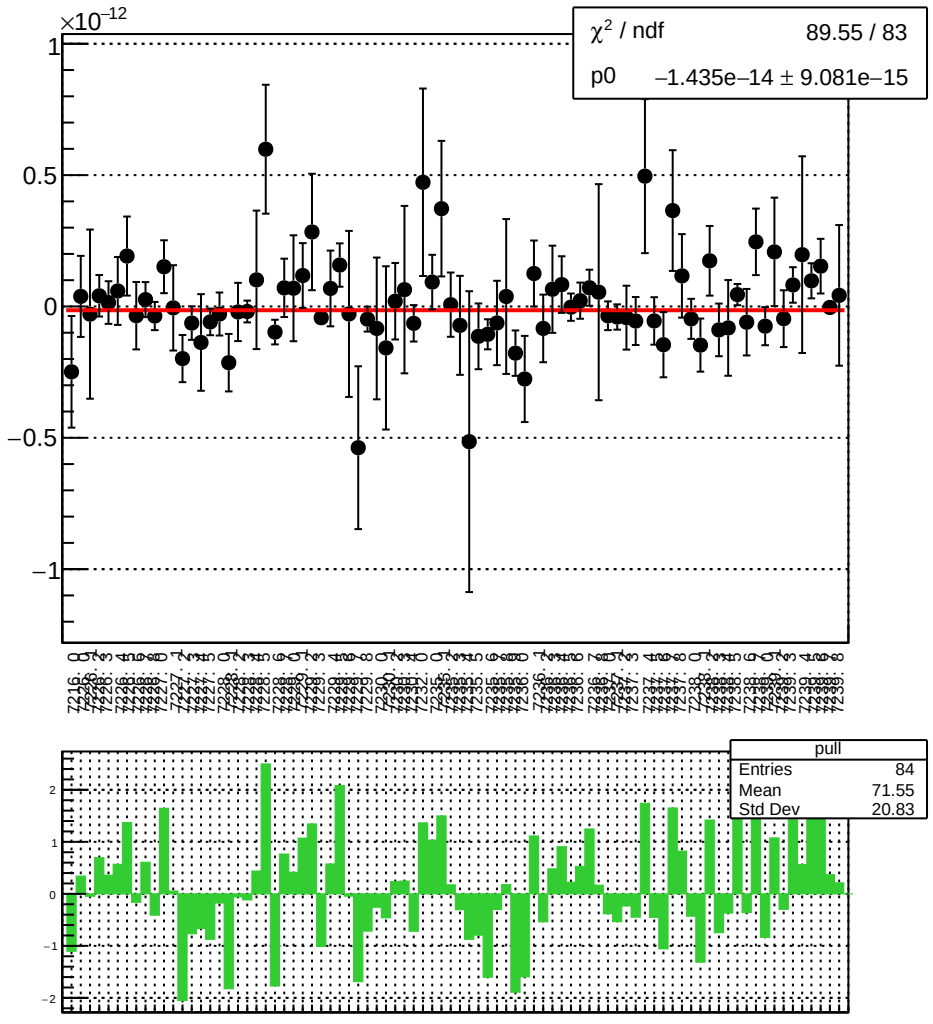

pull1D
Entries 84
Mean −0.01163
Std Dev 0.9872

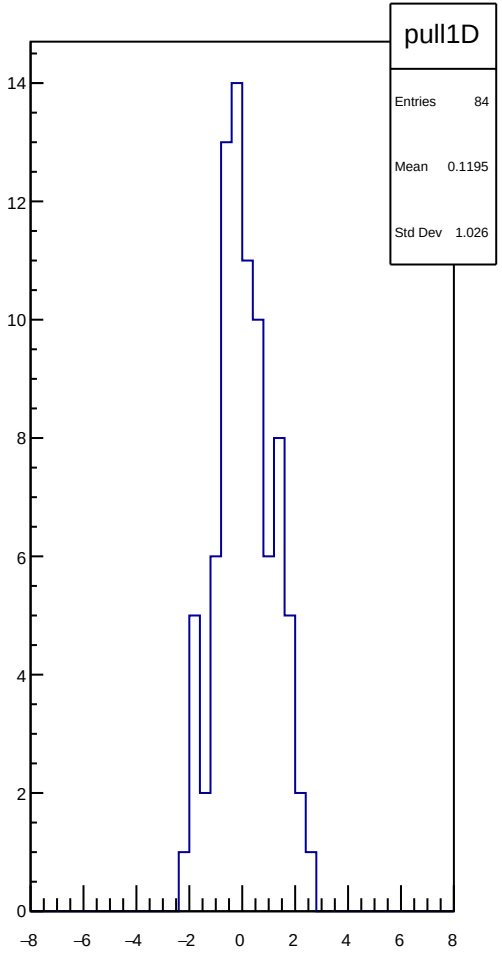

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.948e+04 / 83
p0 27.27 ± 0.02172
60
55
50
45
40
35
30
25
20

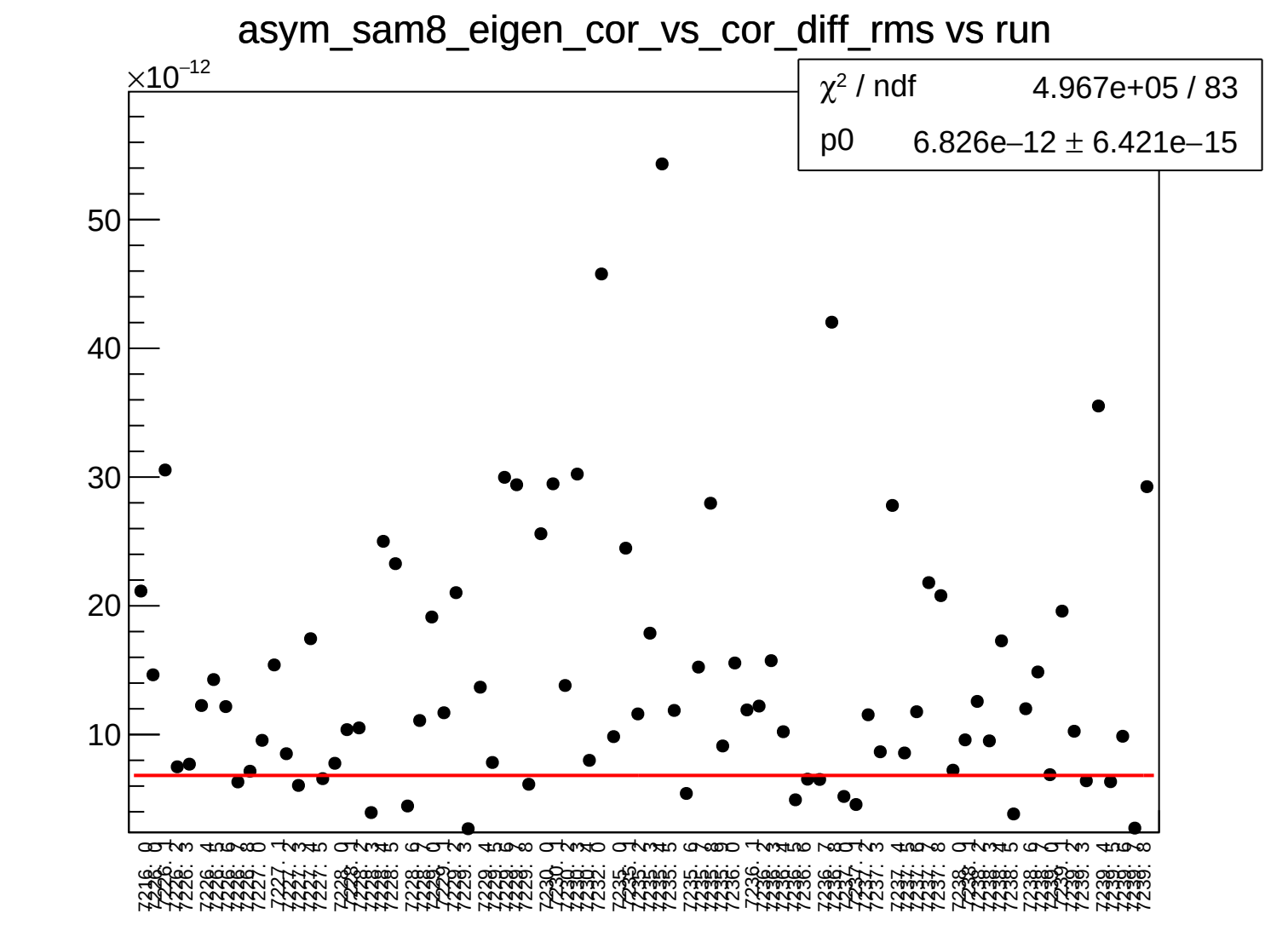

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.87 / 83
p0 −0.06295 ± 0.03071
pull
Entries 84
Mean 448.2
Std Dev 0

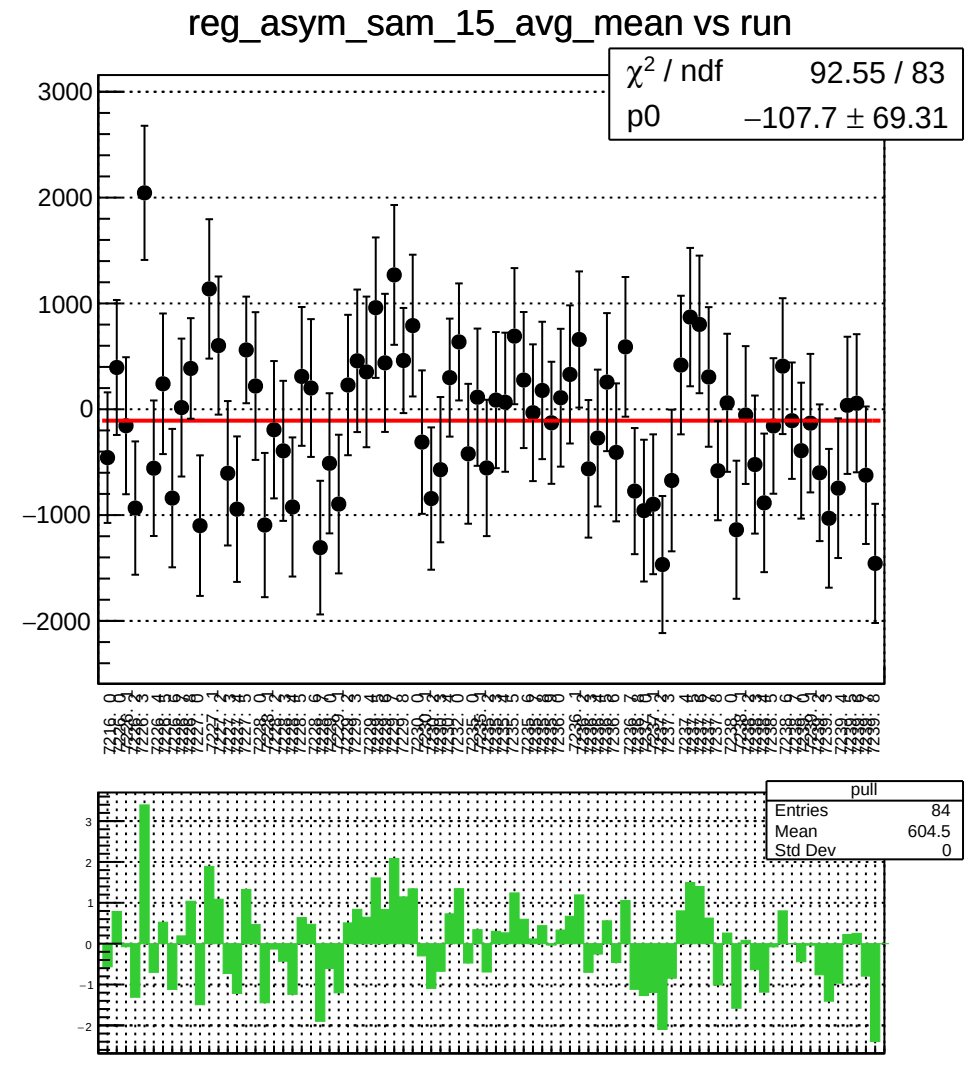

pull1D
Entries 84
Mean −0.01163
Std Dev 0.9872

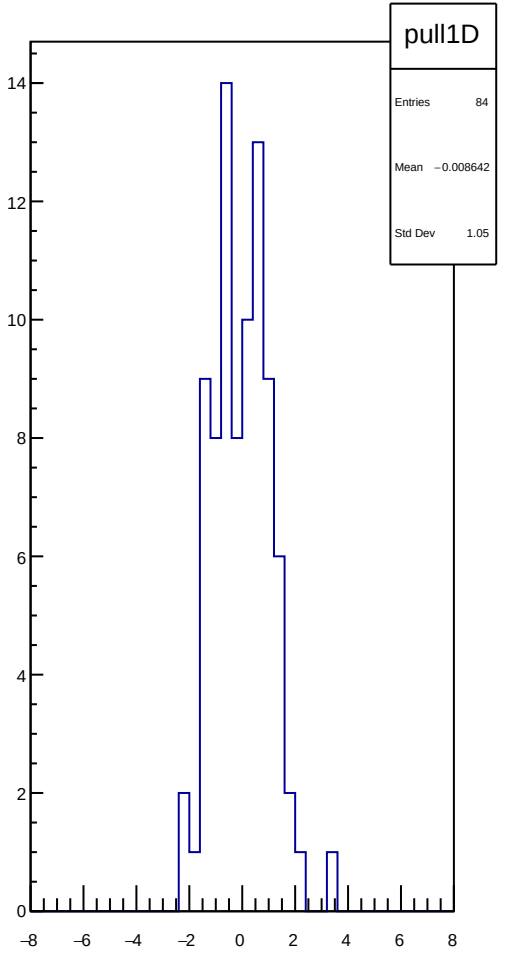

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.948e+04 / 83
p0 27.27 ± 0.02172
60
55
50
45
40
35
30
25
20


asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.55 / 83
p0 −1.435e−14 ± 9.081e−15
pull
Entries 84
Mean 71.55
Std Dev 20.83


pull1D
Entries 84
Mean 0.1195
Std Dev 1.026


asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.967e+05 / 83
p0 6.826e−12 ± 6.421e−15
50
40
30
20
10


reg_asym_sam_15_avg_mean vs run
χ² / ndf 92.55 / 83
p0 −107.7 ± 69.31
3000
2000
1000
0
−1000
−2000
pull
Entries 84
Mean 604.5
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 84
Mean −0.008642
Std Dev 1.05
14
12
10
8
6
4
2
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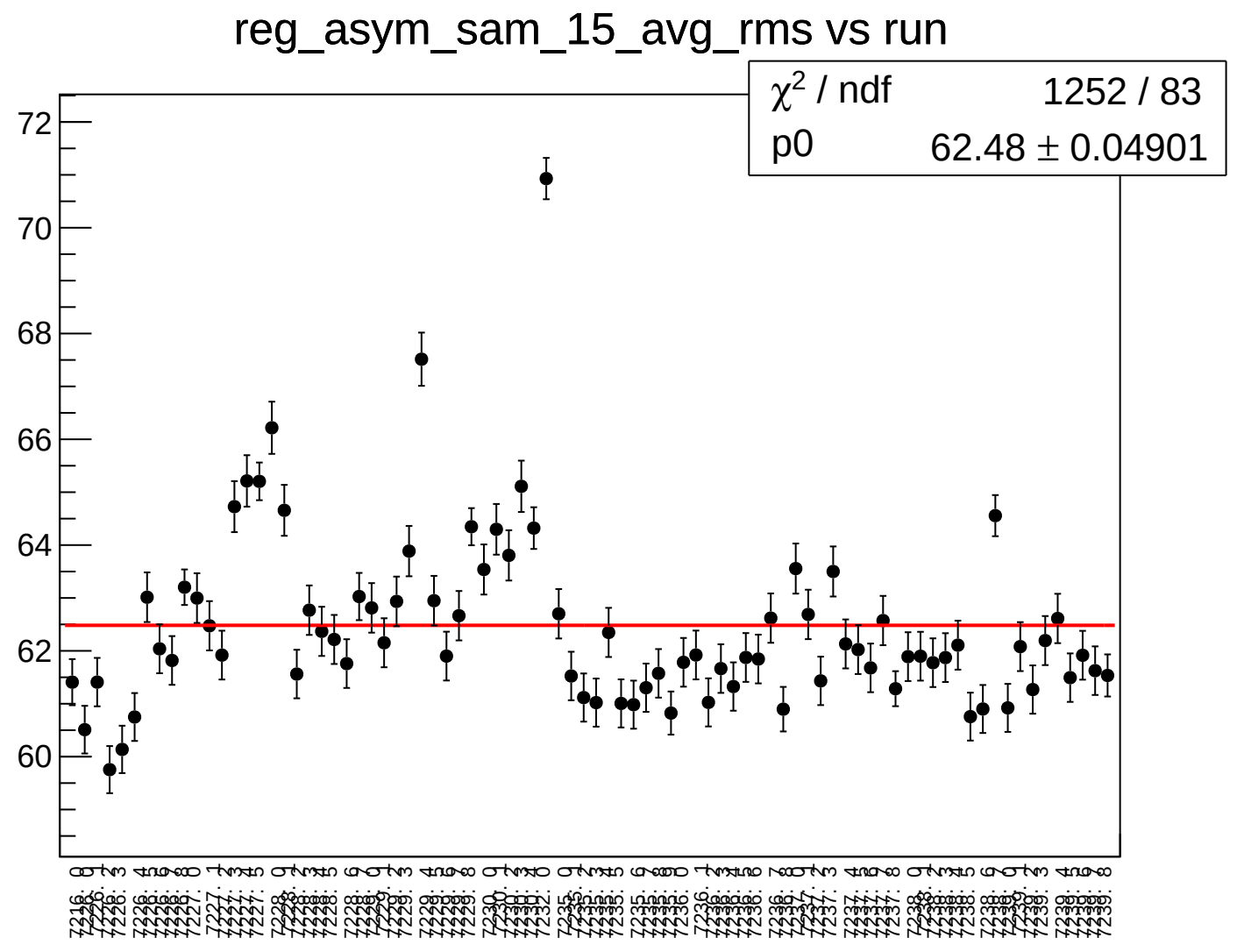
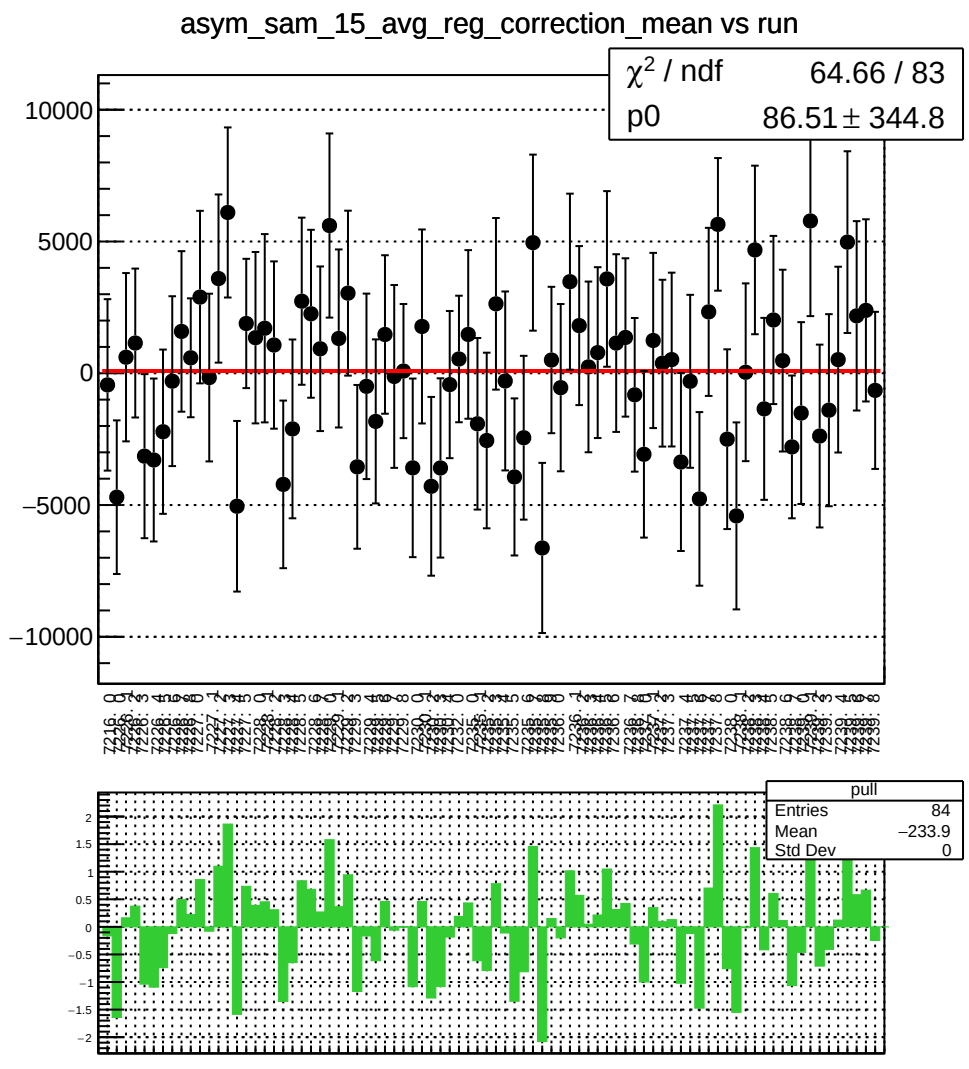
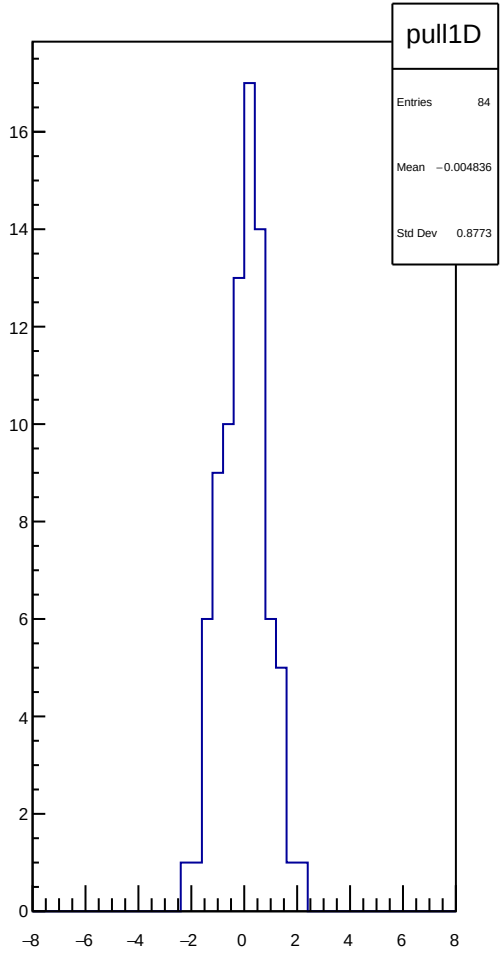
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_15_avg_rms vs run
χ^2 / ndf 1252 / 83
p0 62.48 ± 0.04901
72
70
68
66
64
62
60


asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 64.66 / 83
p0 86.51 ± 344.8
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −233.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 84
Mean −0.004836
Std Dev 0.8773
16
14
12
10
8
6
4
2
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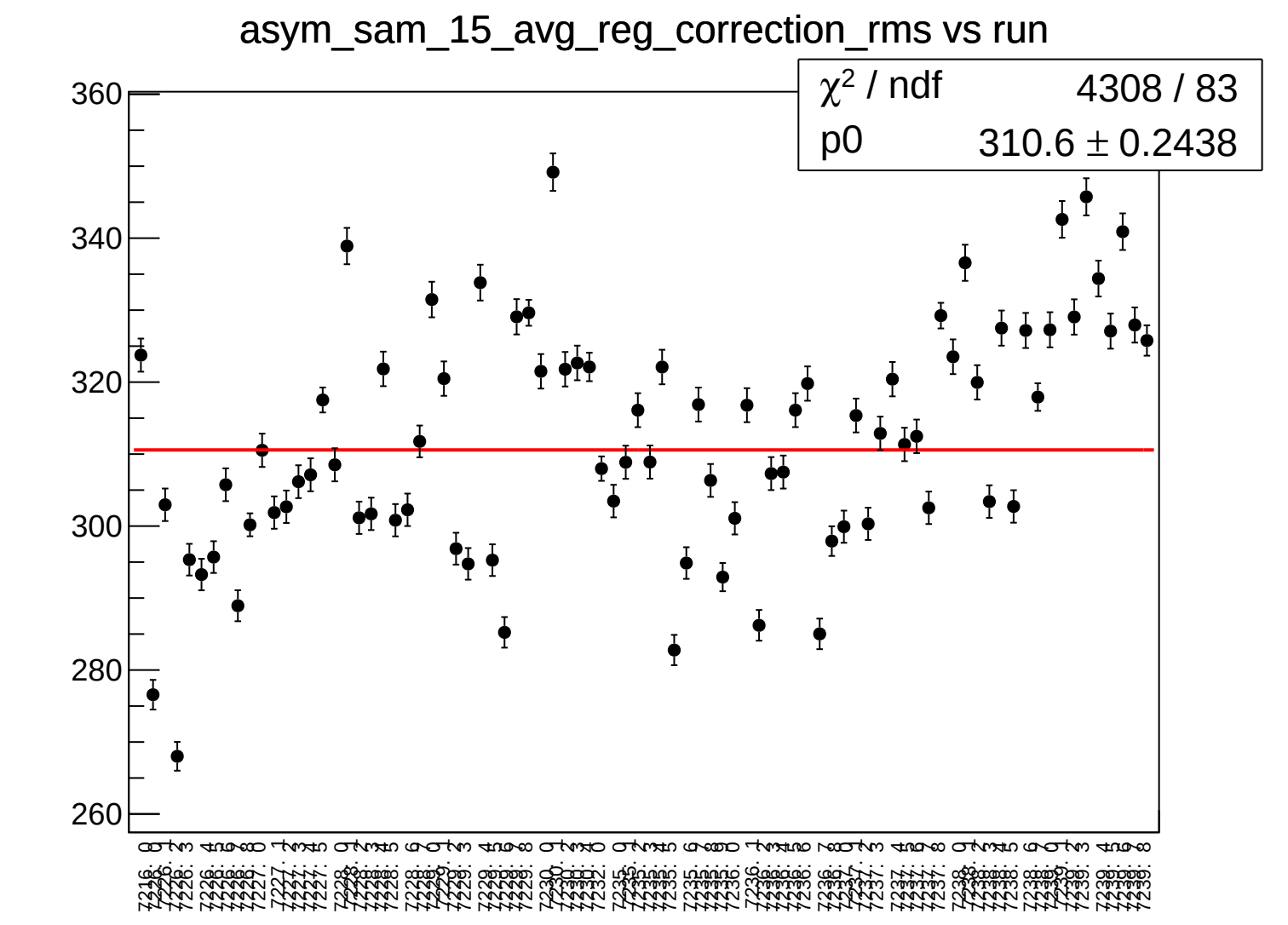
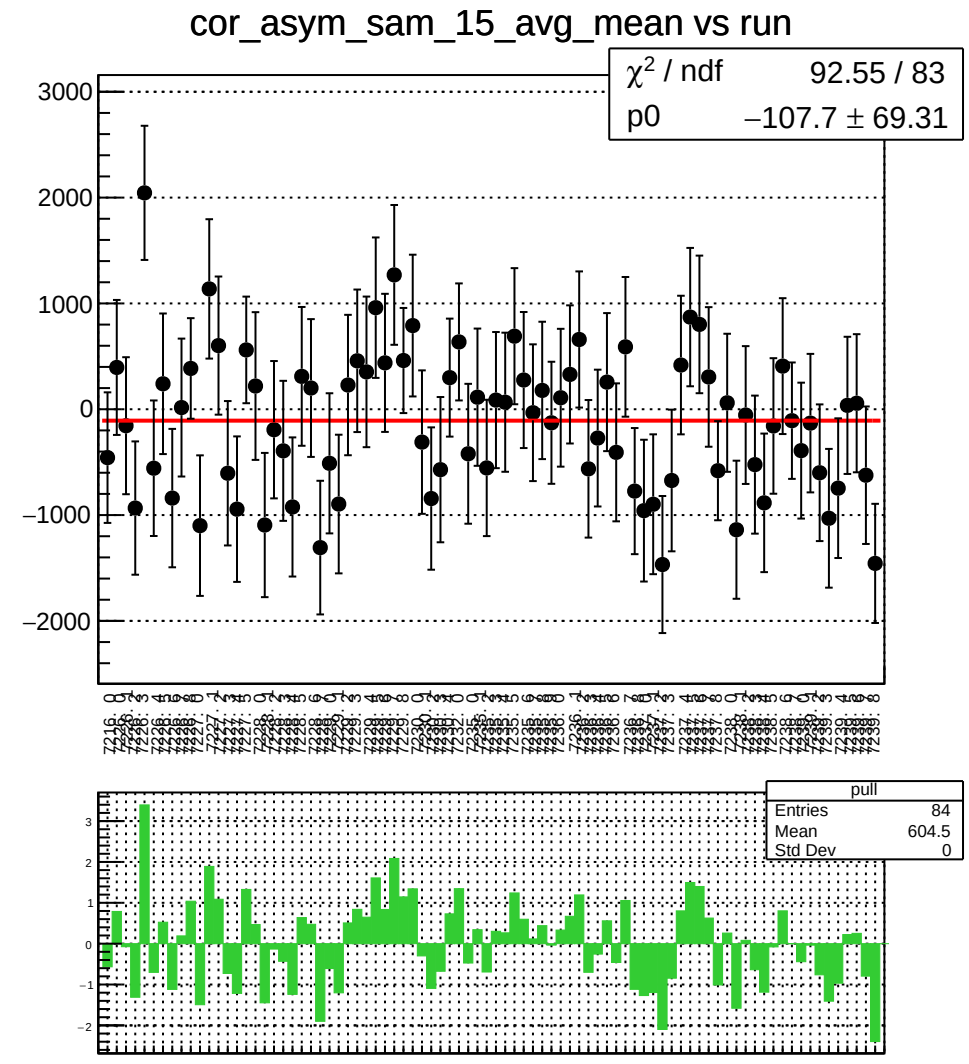
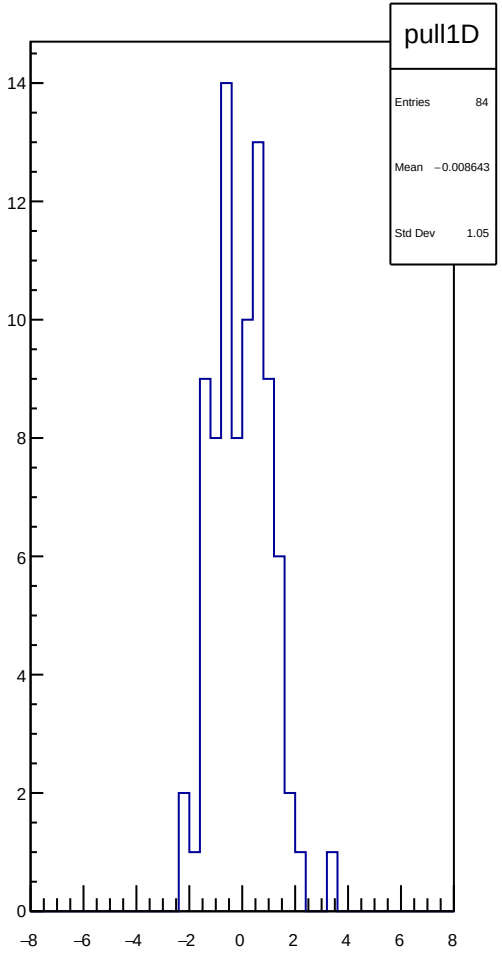
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 4308 / 83
p0 310.6 ± 0.2438
360
340
320
300
280
260


cor_asym_sam_15_avg_mean vs run
χ² / ndf 92.55 / 83
p0 −107.7 ± 69.31
3000
2000
1000
0
−1000
−2000
pull
Entries 84
Mean 604.5
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 84
Mean −0.008643
Std Dev 1.05
14
12
10
8
6
4
2
0
−8
−6
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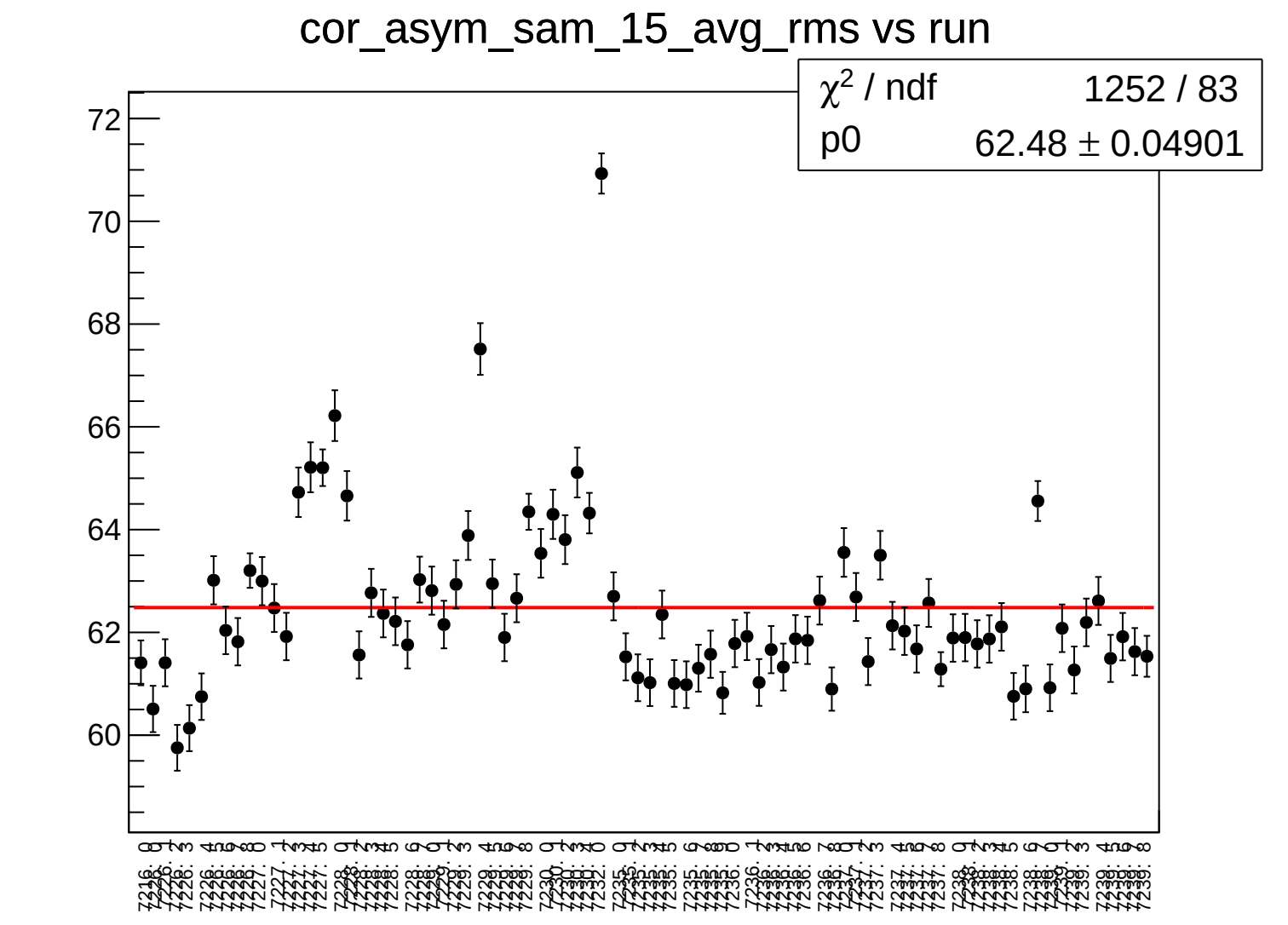
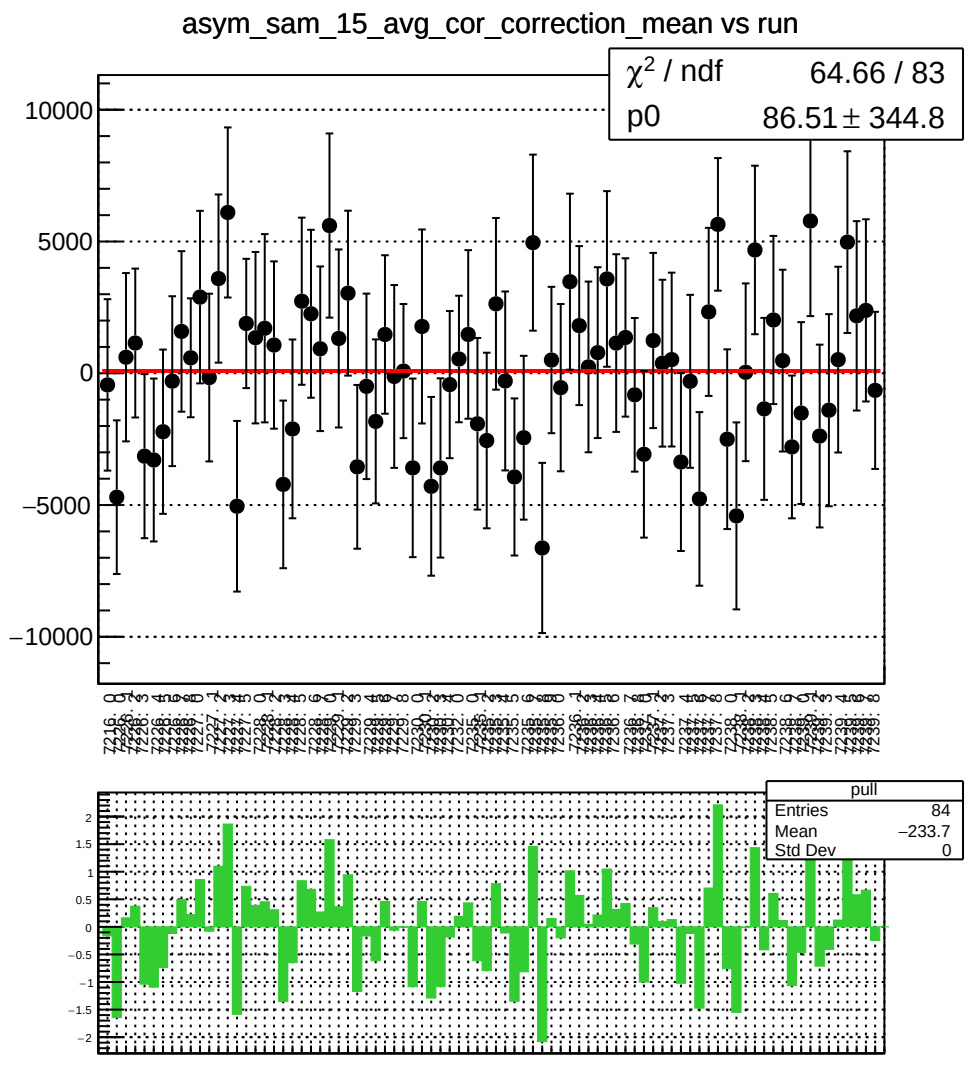
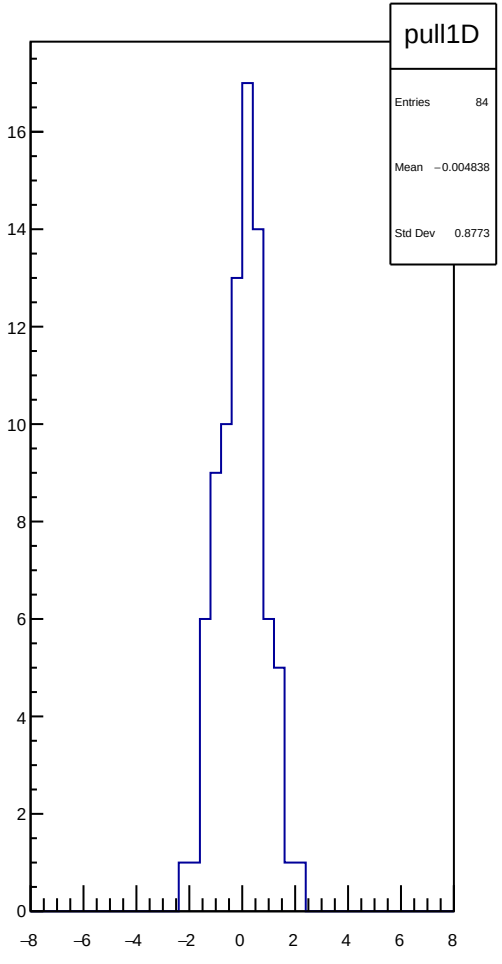
2
4
6
8


cor_asym_sam_15_avg_rms vs run
χ^2 / ndf 1252 / 83
p0 62.48 ± 0.04901
72
70
68
66
64
62
60


asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 64.66 / 83
p0 86.51 ± 344.8
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −233.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 84
Mean −0.004838
Std Dev 0.8773
16
14
12
10
8
6
4
2
0
−8
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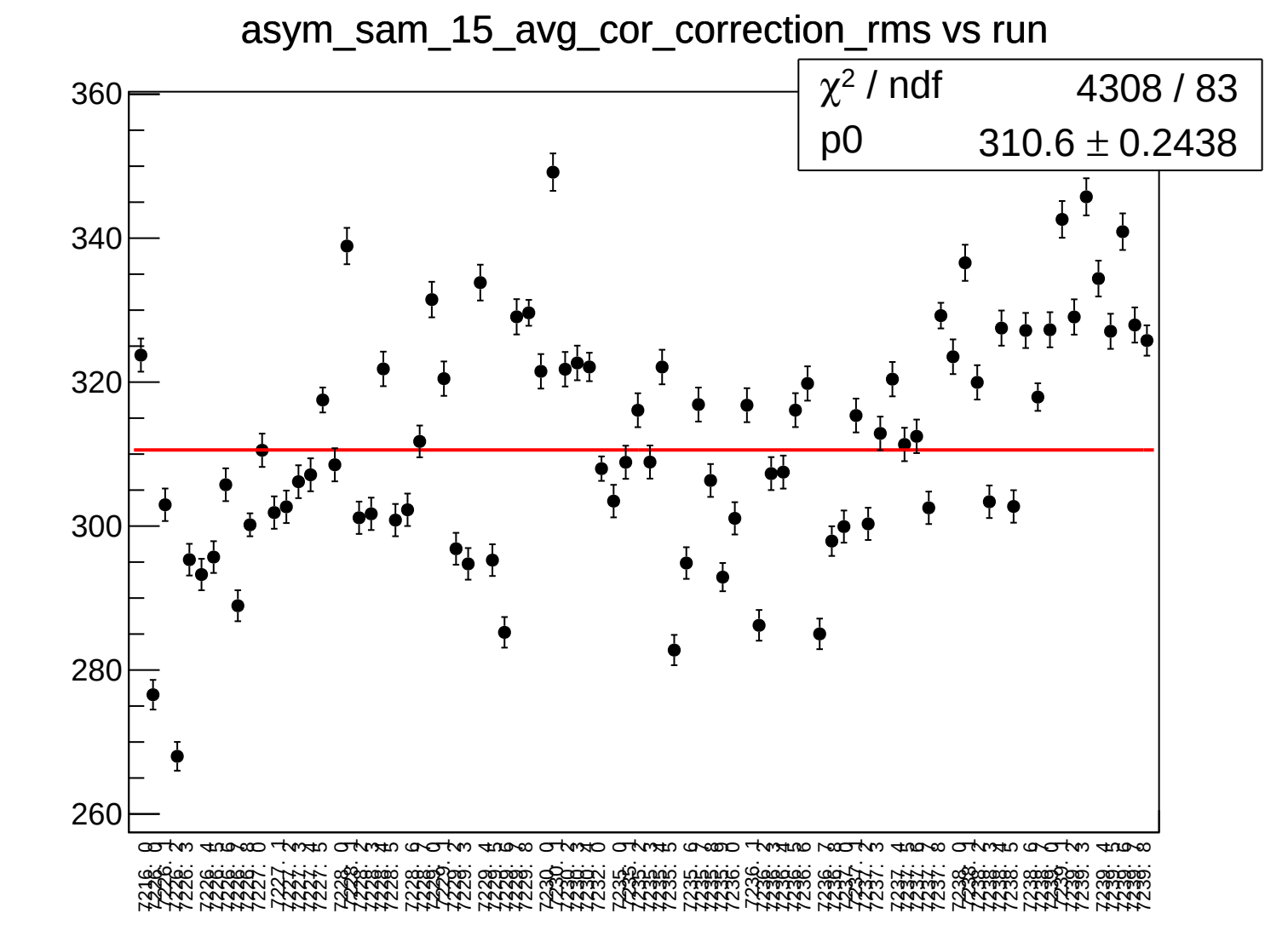
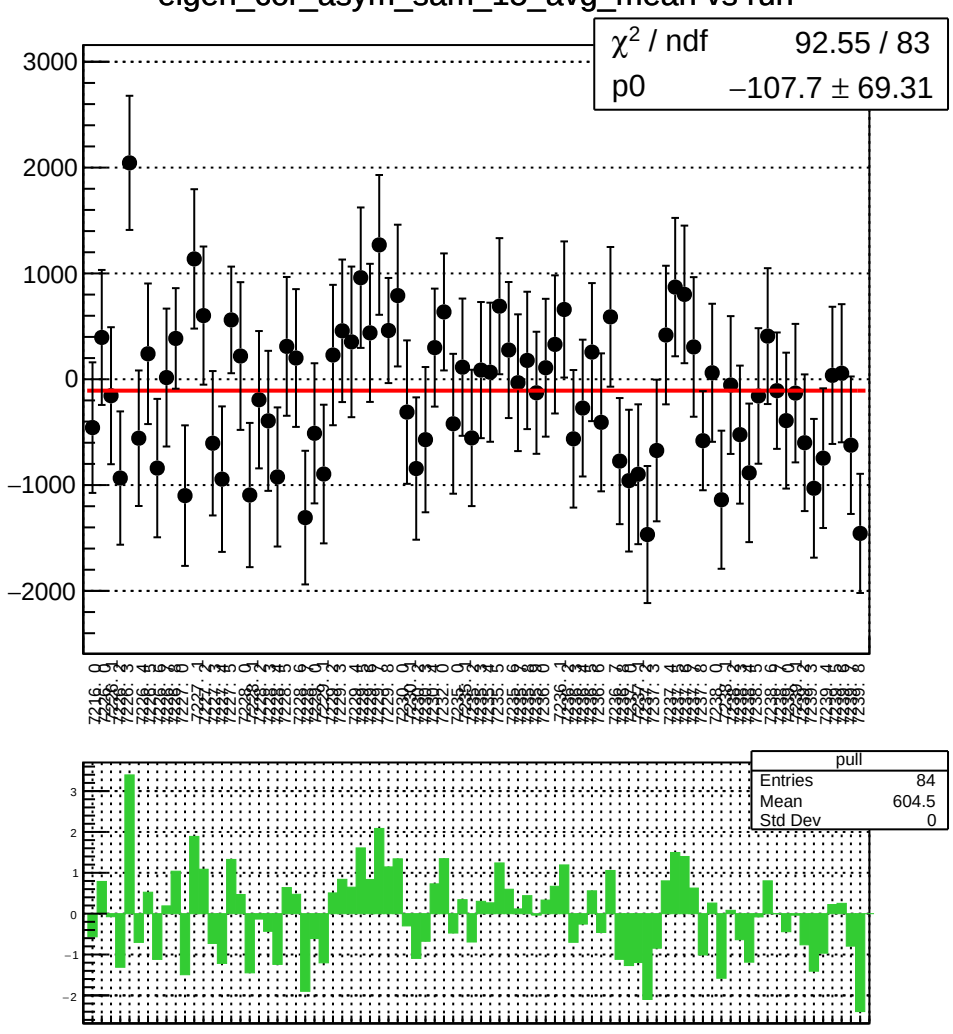
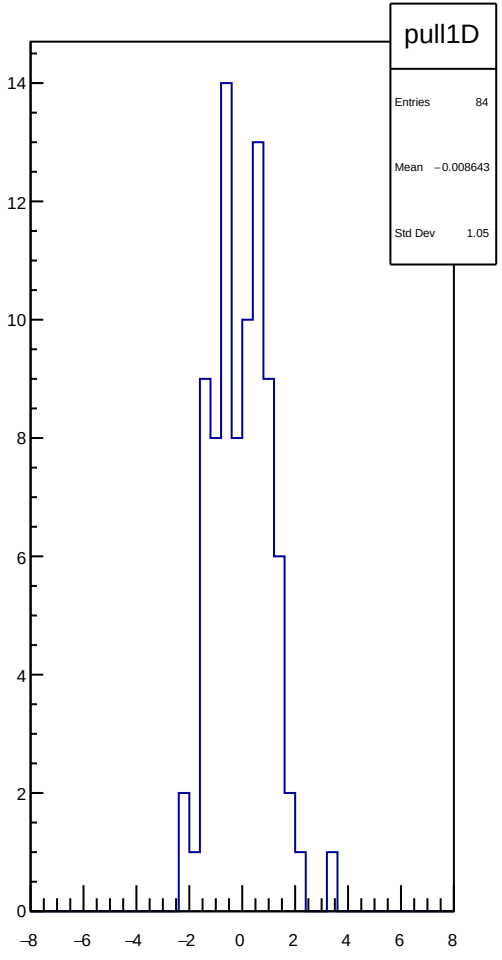
2
4
6
8


asym_sam_15_avg_cor_correction_rms vs run
χ² / ndf 4308 / 83
p0 310.6 ± 0.2438
360
340
320
300
280
260


eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 92.55 / 83
p0 −107.7 ± 69.31
3000
2000
1000
0
−1000
−2000
pull
Entries 84
Mean 604.5
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 84
Mean −0.008643
Std Dev 1.05
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10
8
6
4
2
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−4
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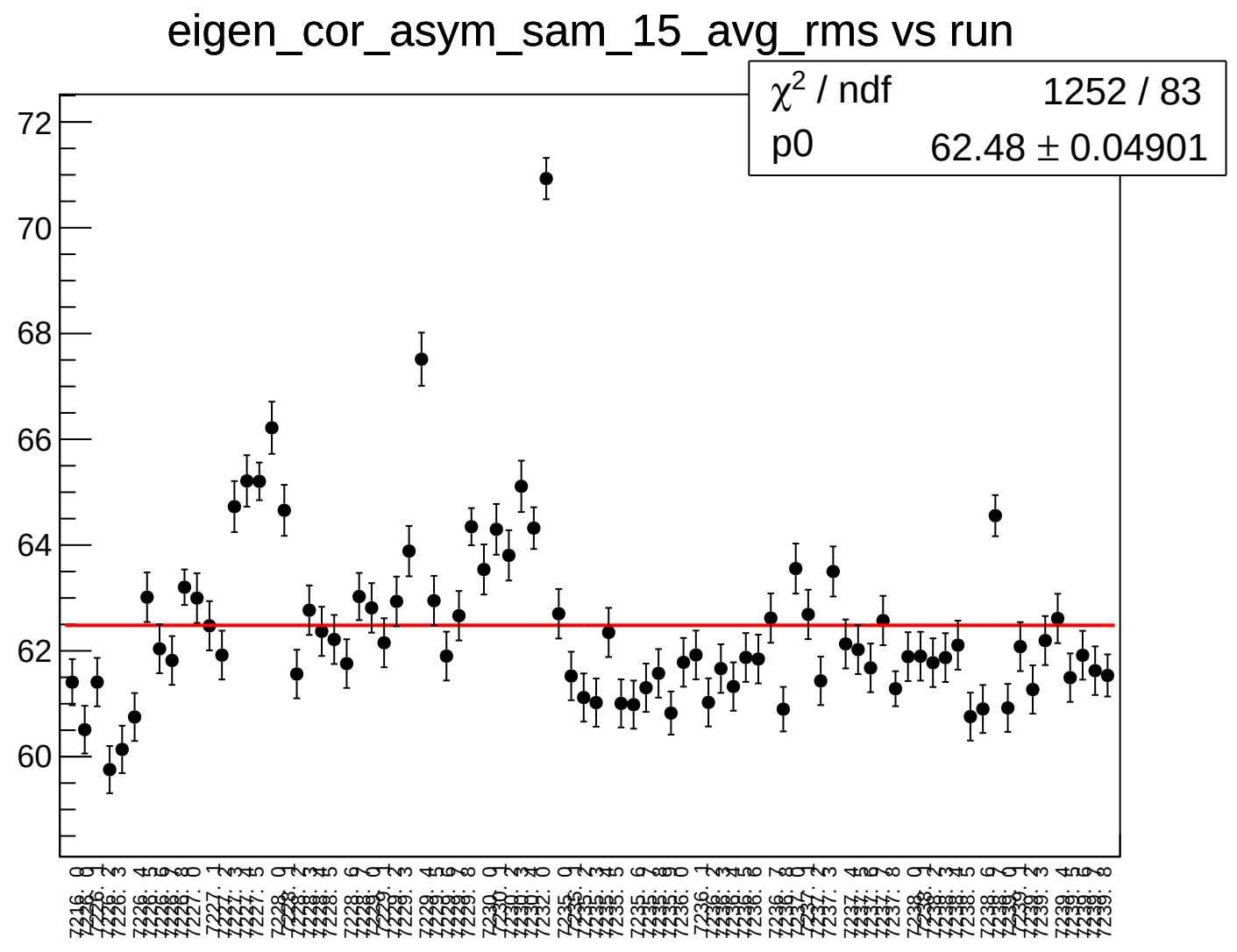
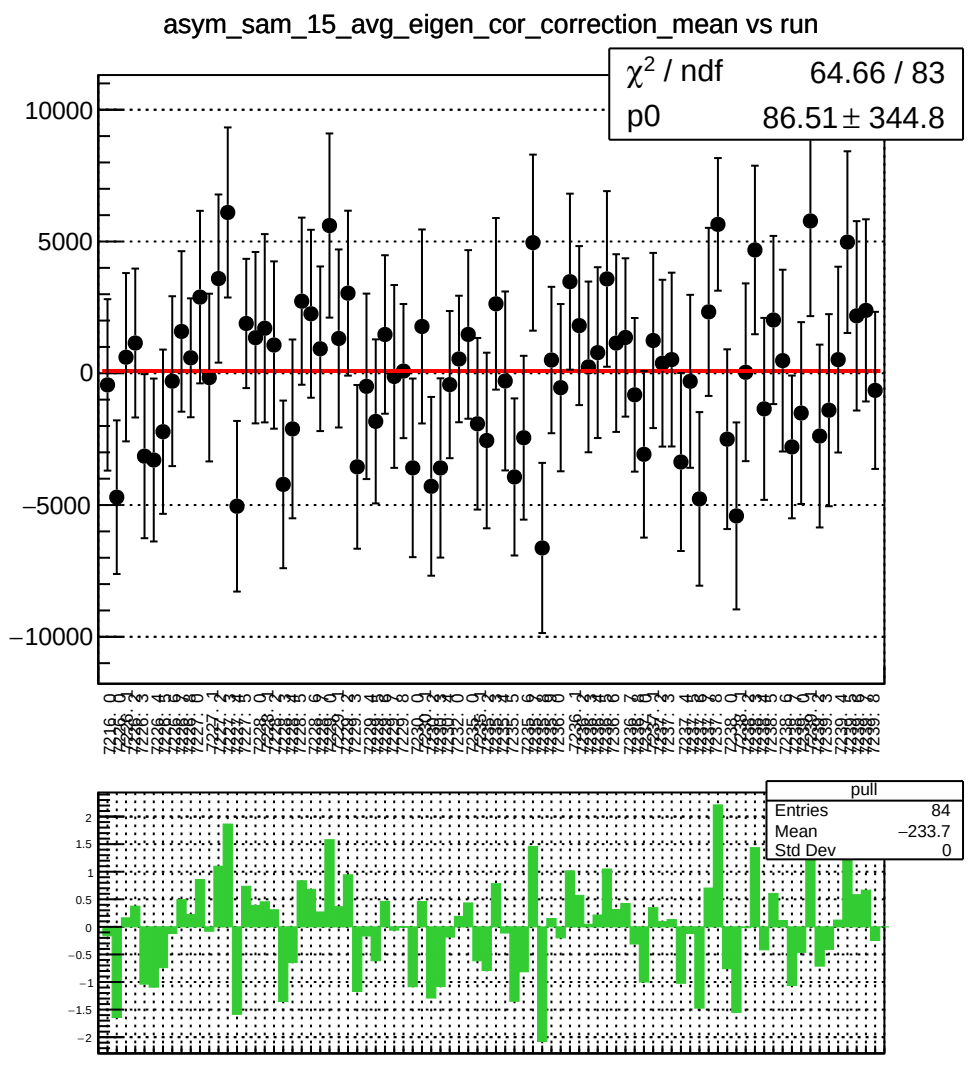
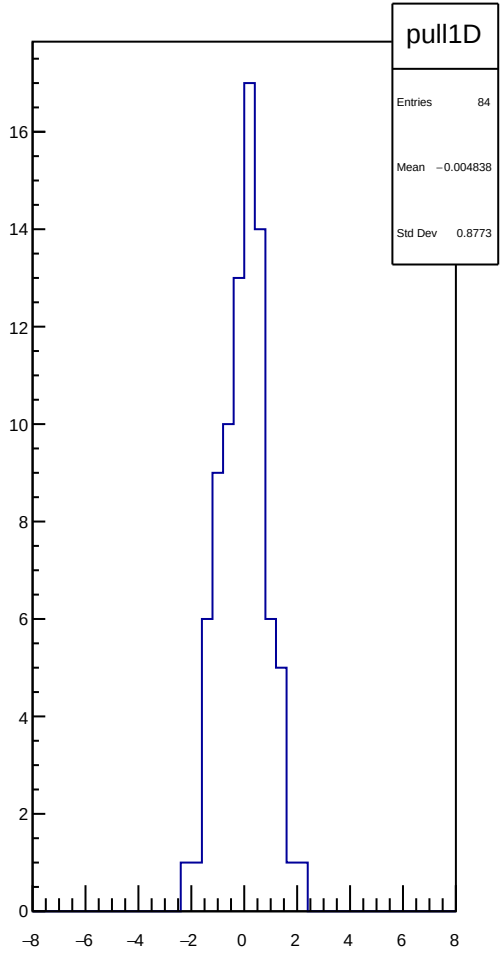
2
4
6
8


eigen_cor_asym_sam_15_avg_rms vs run
χ^2 / ndf 1252 / 83
p0 62.48 ± 0.04901
72
70
68
66
64
62
60


asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 64.66 / 83
p0 86.51 ± 344.8
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −233.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 84
Mean −0.004838
Std Dev 0.8773
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10
8
6
4
2
0
−8
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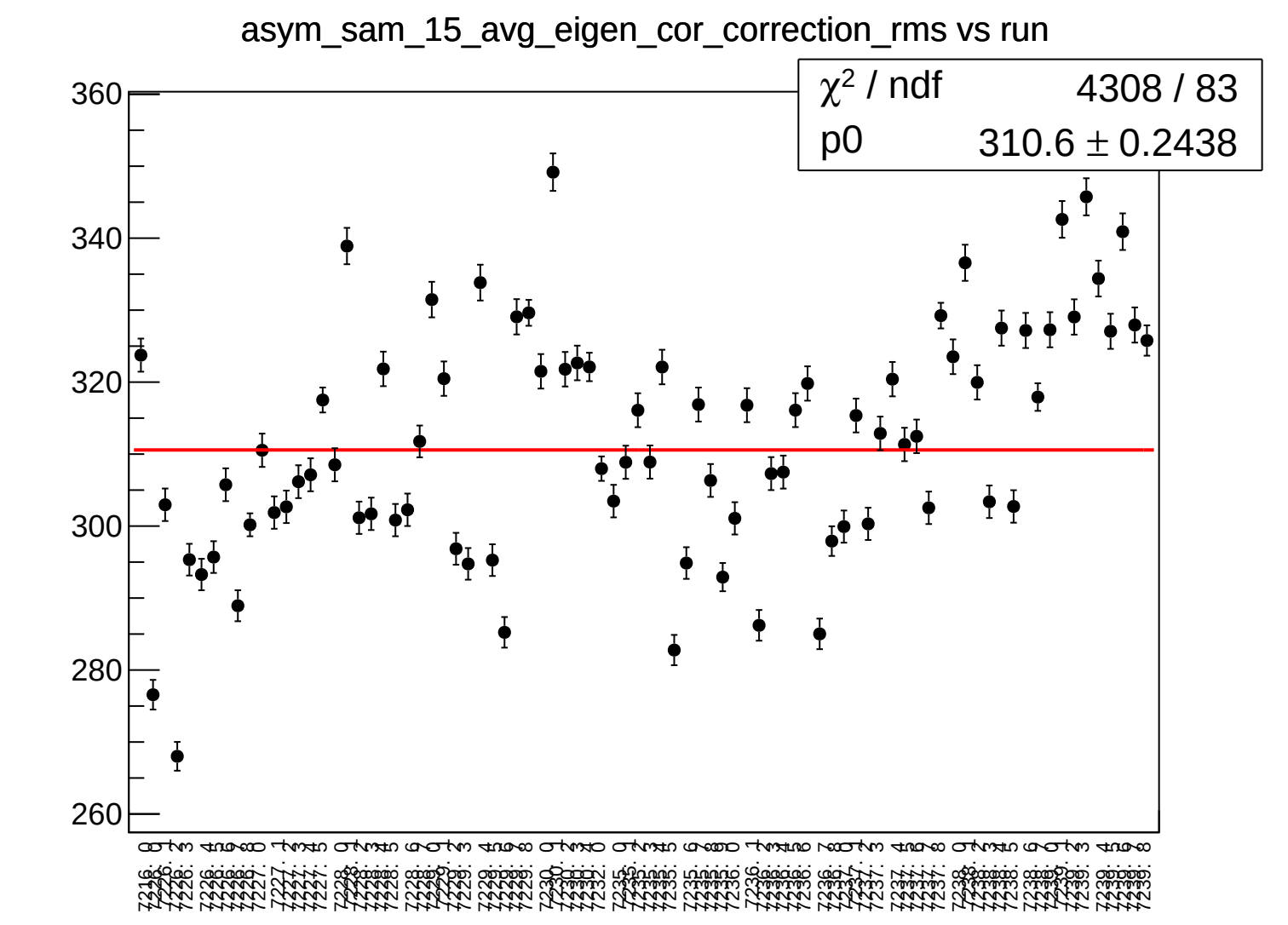
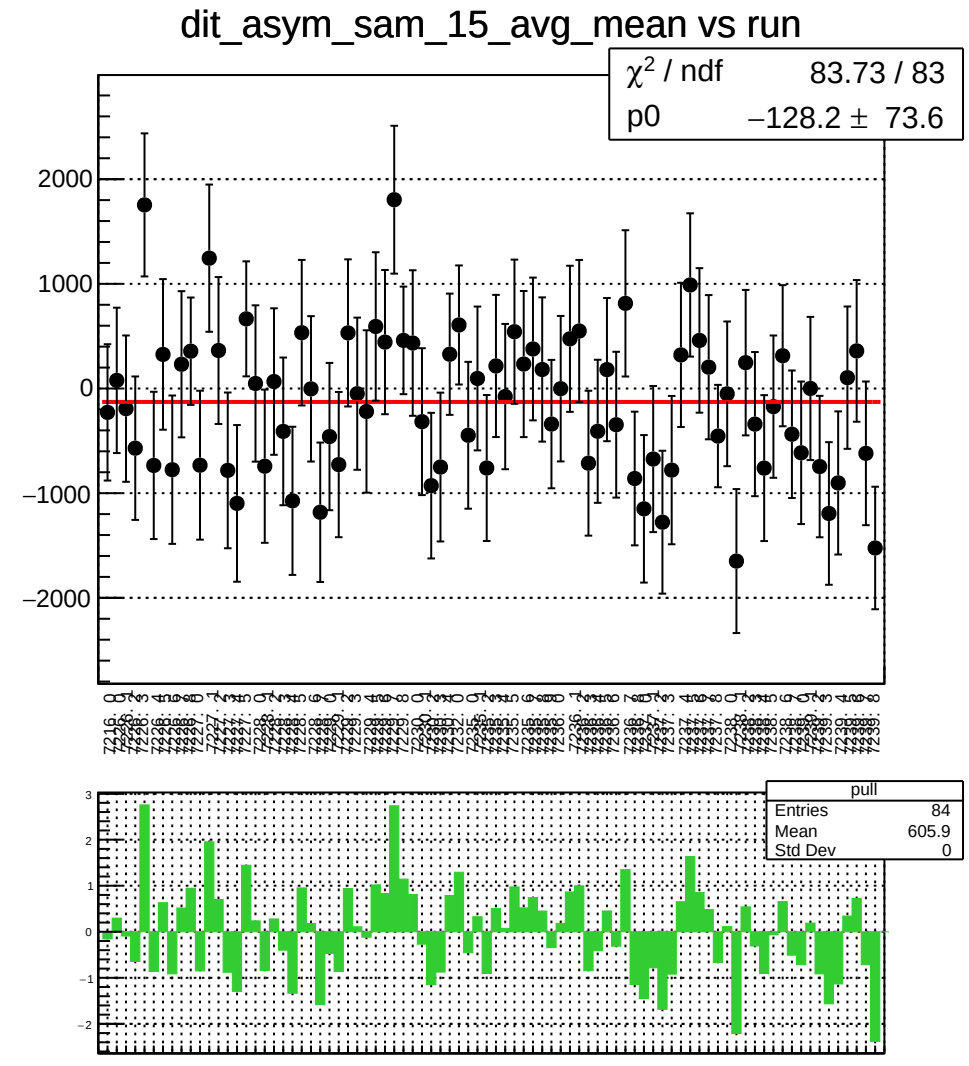
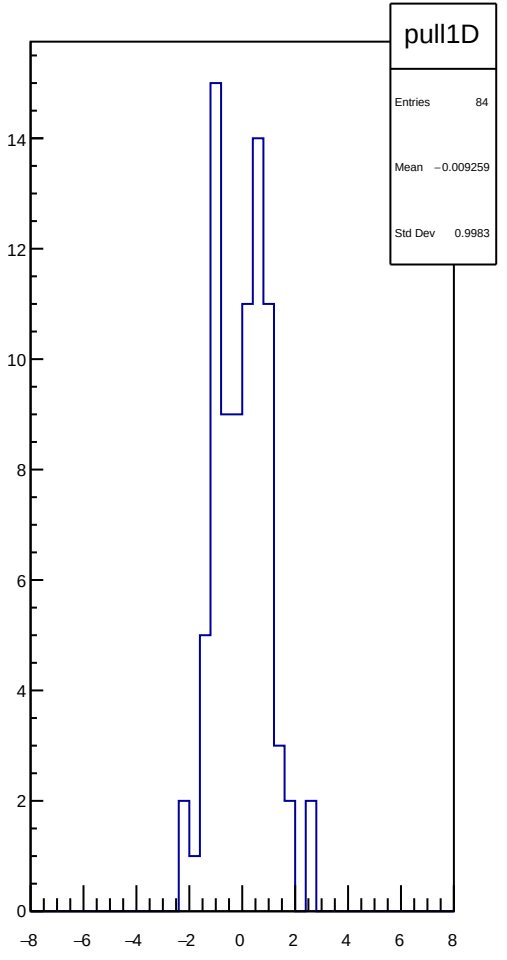
2
4
6
8


asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 4308 / 83
p0 310.6 ± 0.2438
360
340
320
300
280
260


dit_asym_sam_15_avg_mean vs run
χ² / ndf 83.73 / 83
p0 −128.2 ± 73.6
2000
1000
0
−1000
−2000
pull
Entries 84
Mean 605.9
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 84
Mean −0.009259
Std Dev 0.9983
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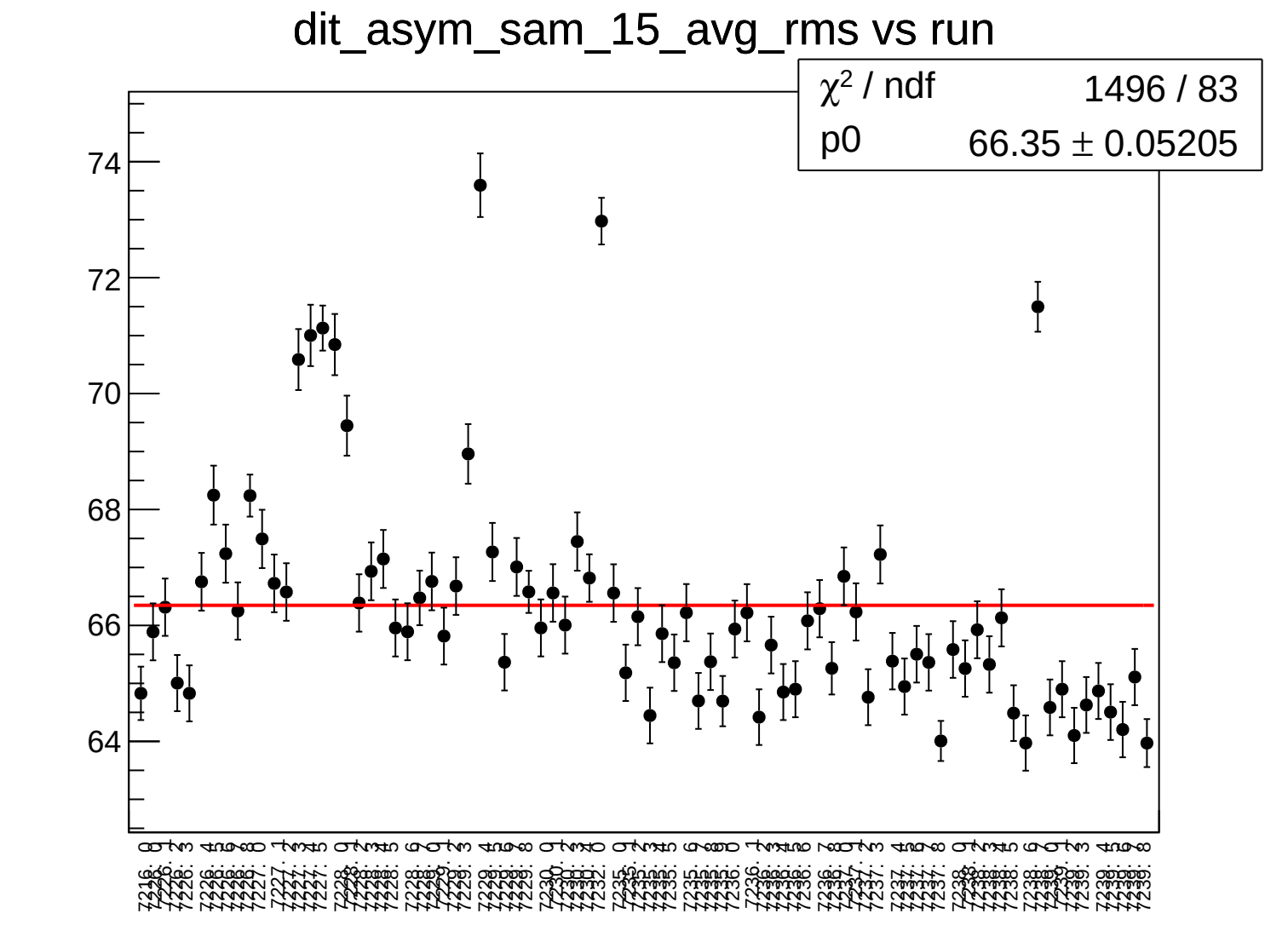
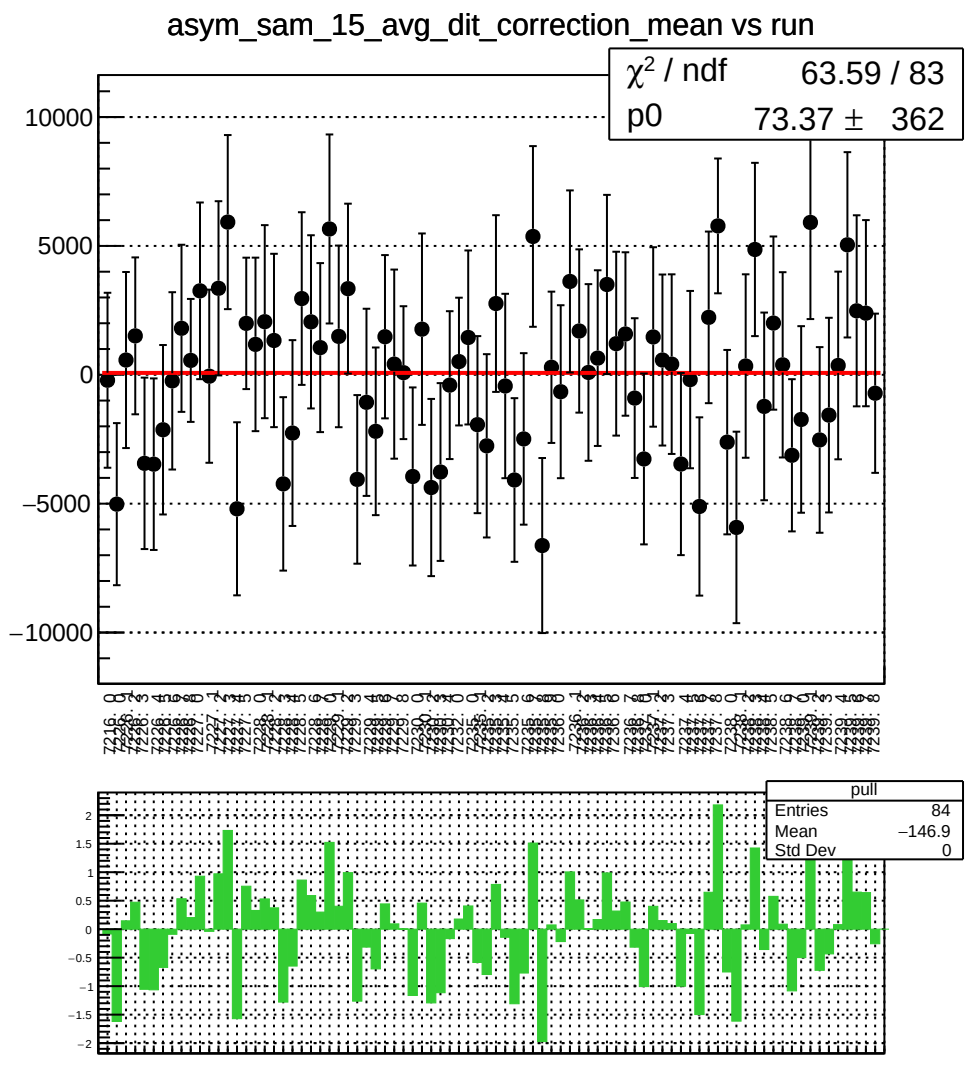
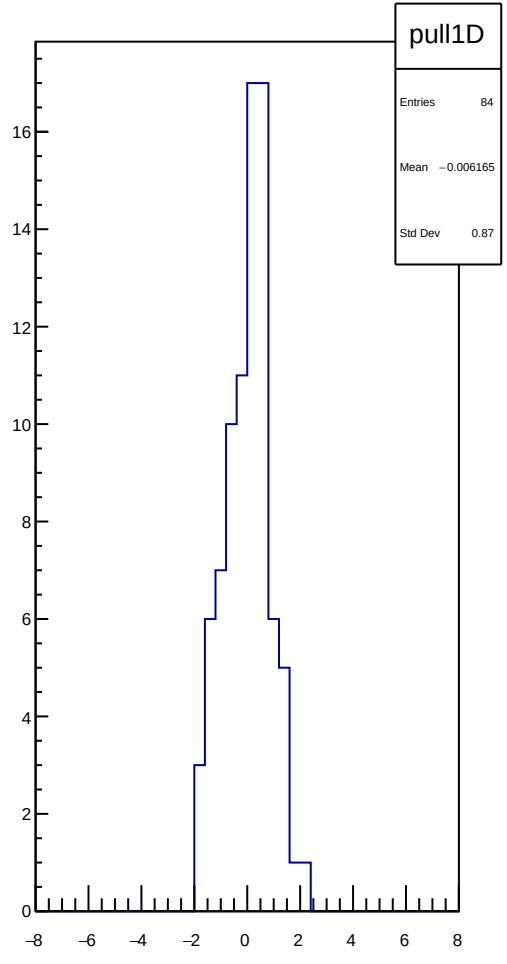
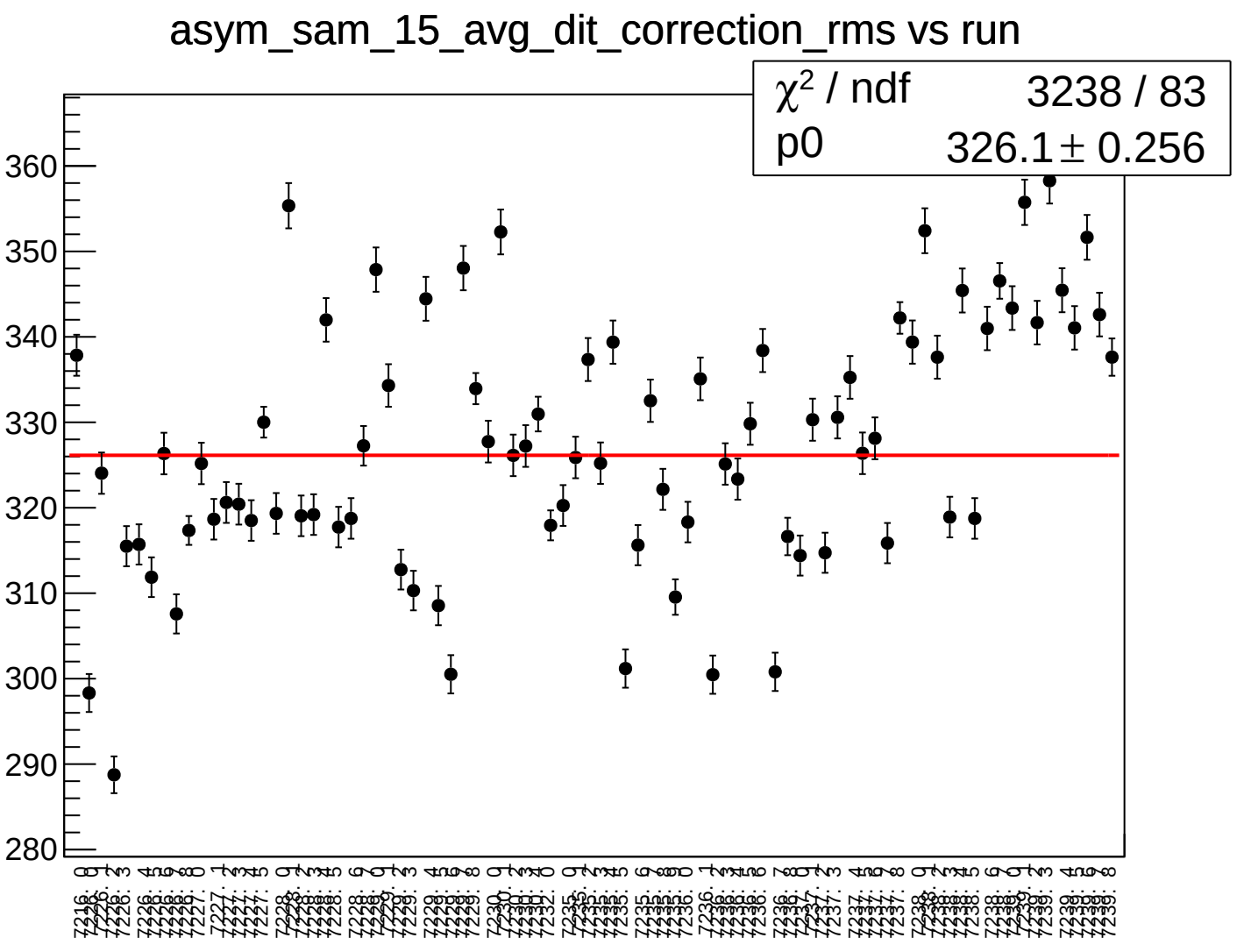
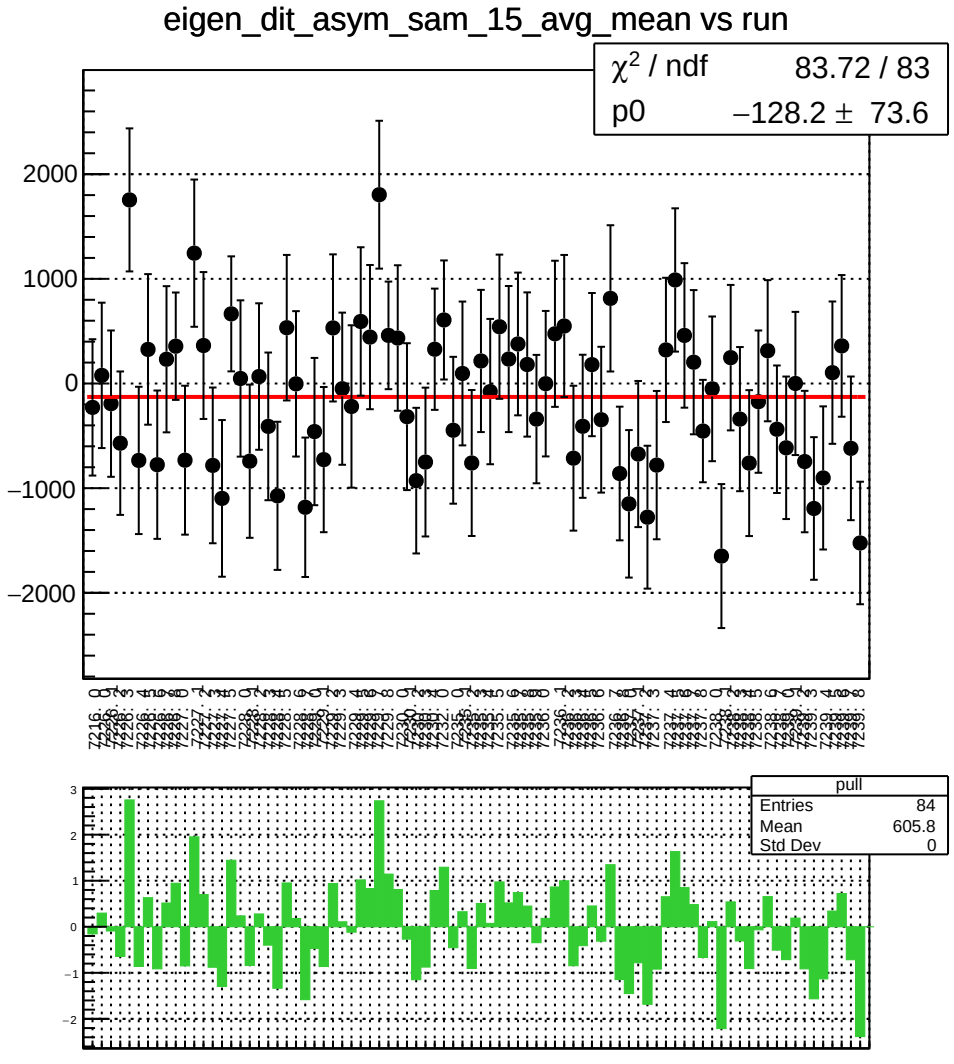
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

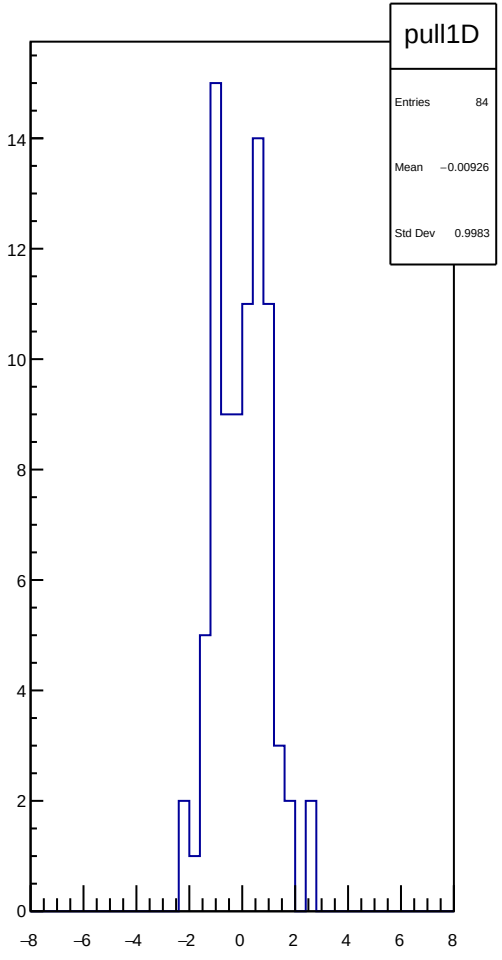

dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 1496 / 83
p0 66.35 ± 0.05205
74
72
70
68
66
64


asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 63.59 / 83
p0 73.37 ± 362
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −146.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 84
Mean −0.006165
Std Dev 0.87
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 3238 / 83
p0 326.1 ± 0.256
360
350
340
330
320
310
300
290
280


eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 83.72 / 83
p0 −128.2 ± 73.6
2000
1000
0
−1000
−2000
pull
Entries 84
Mean 605.8
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 84
Mean −0.00926
Std Dev 0.9983
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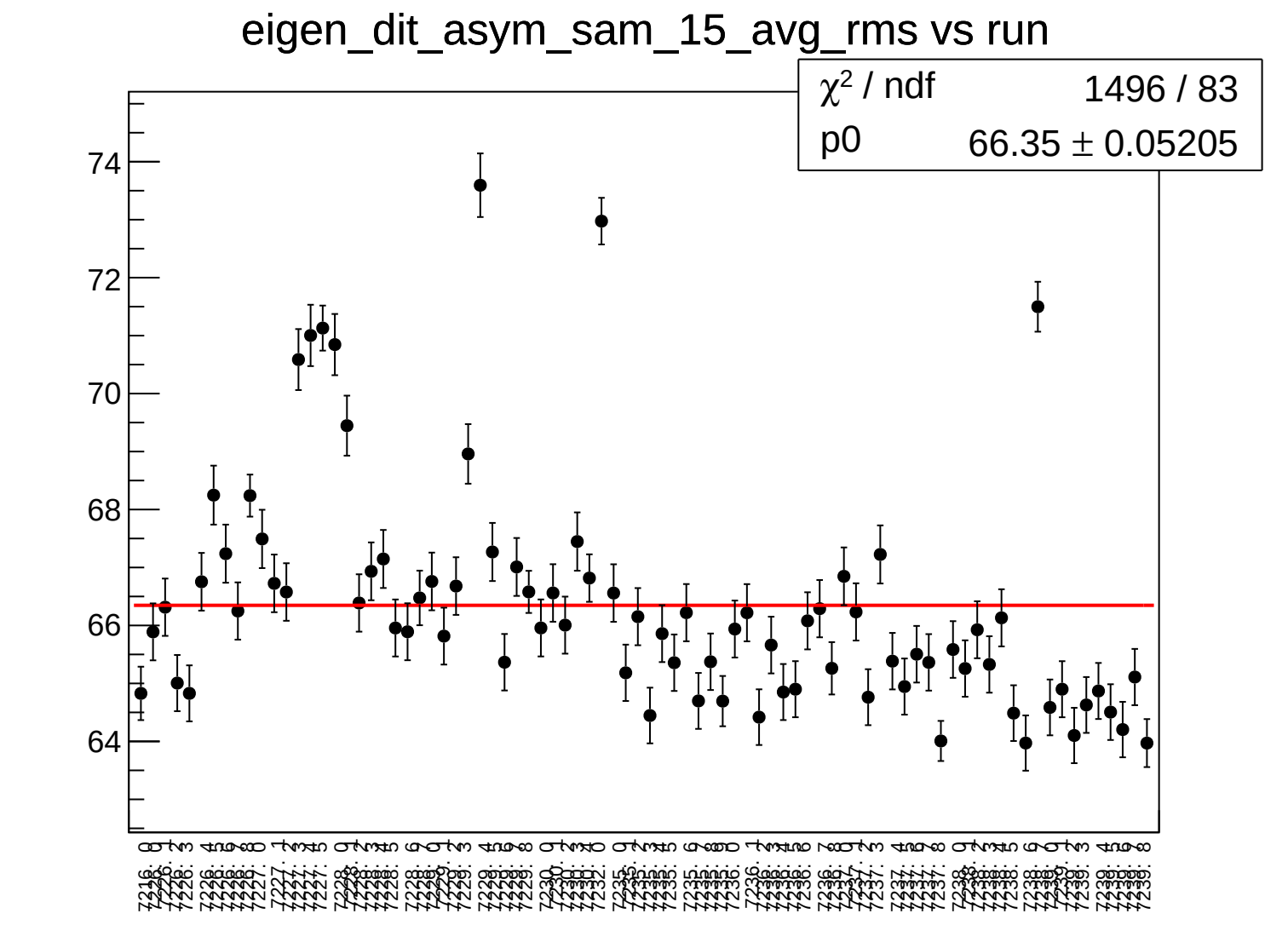
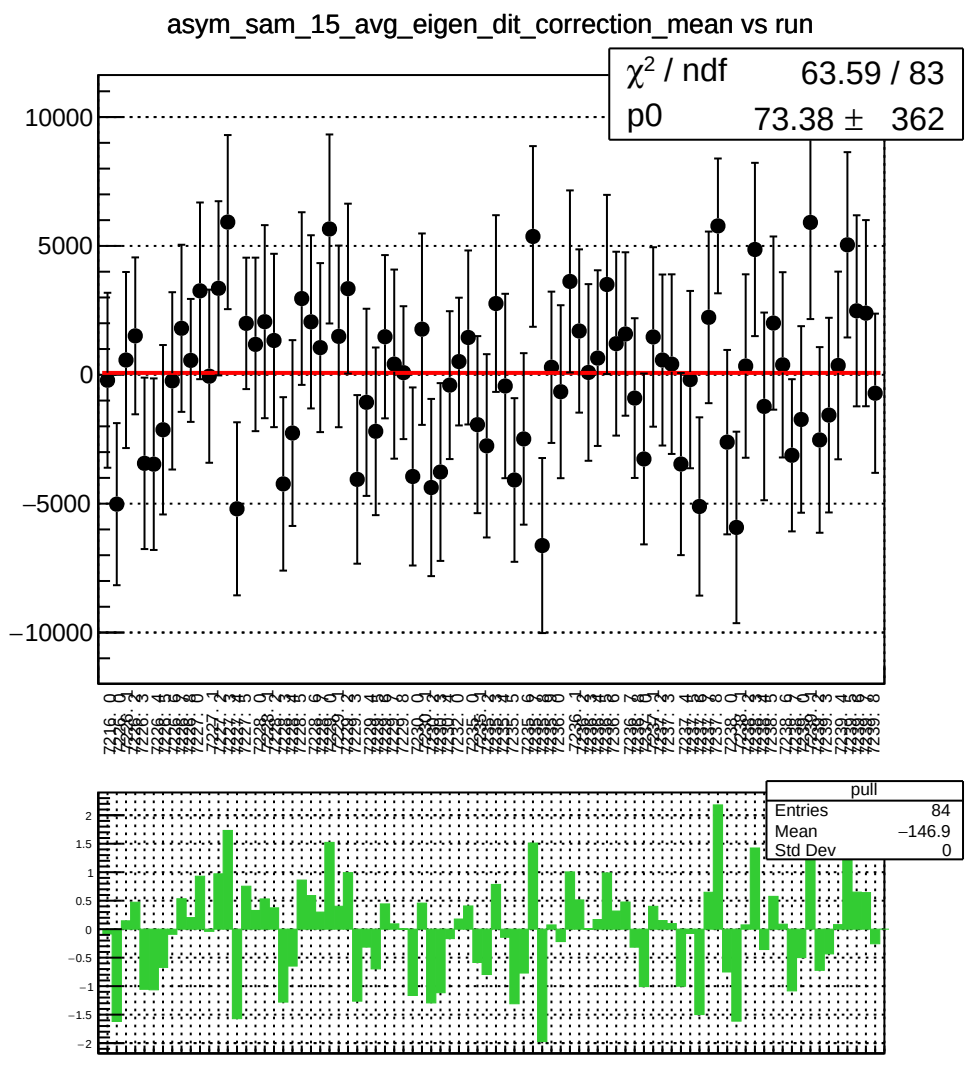
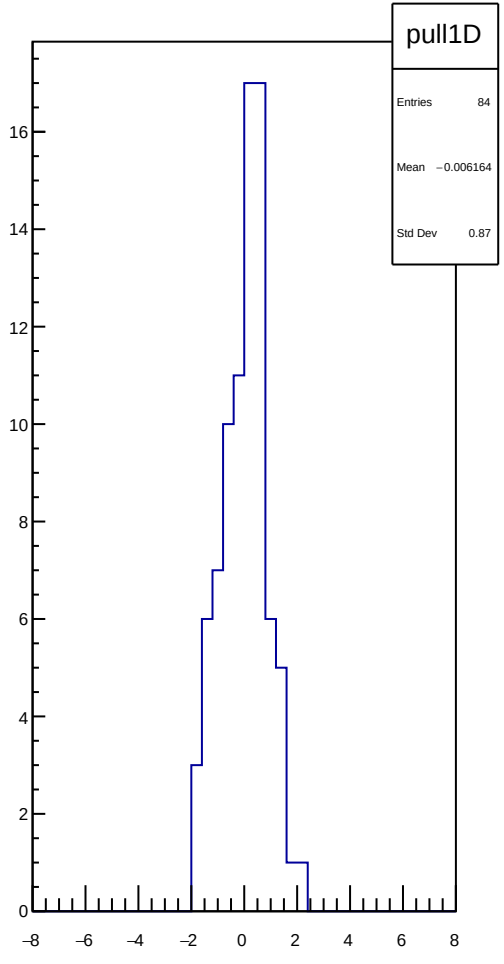
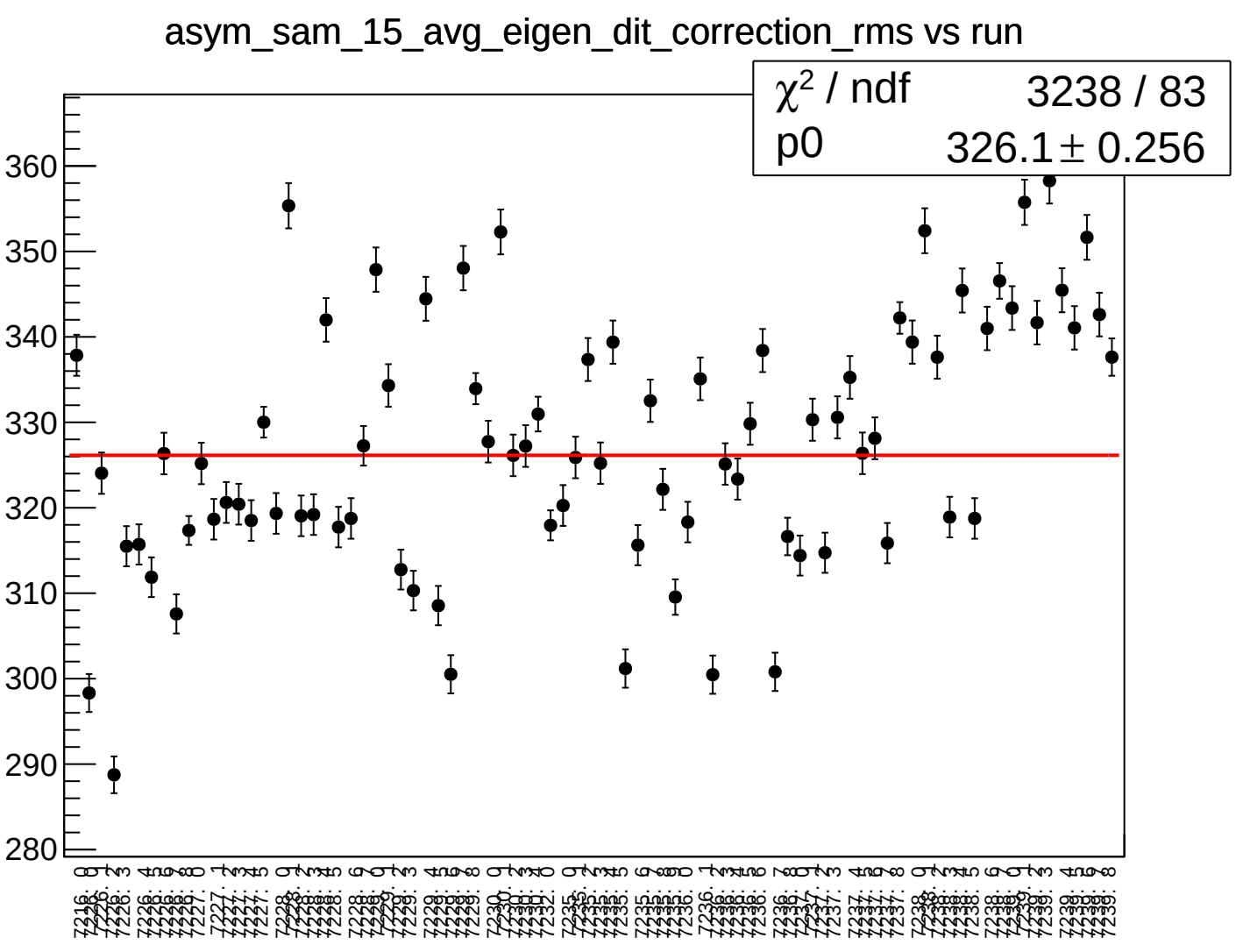
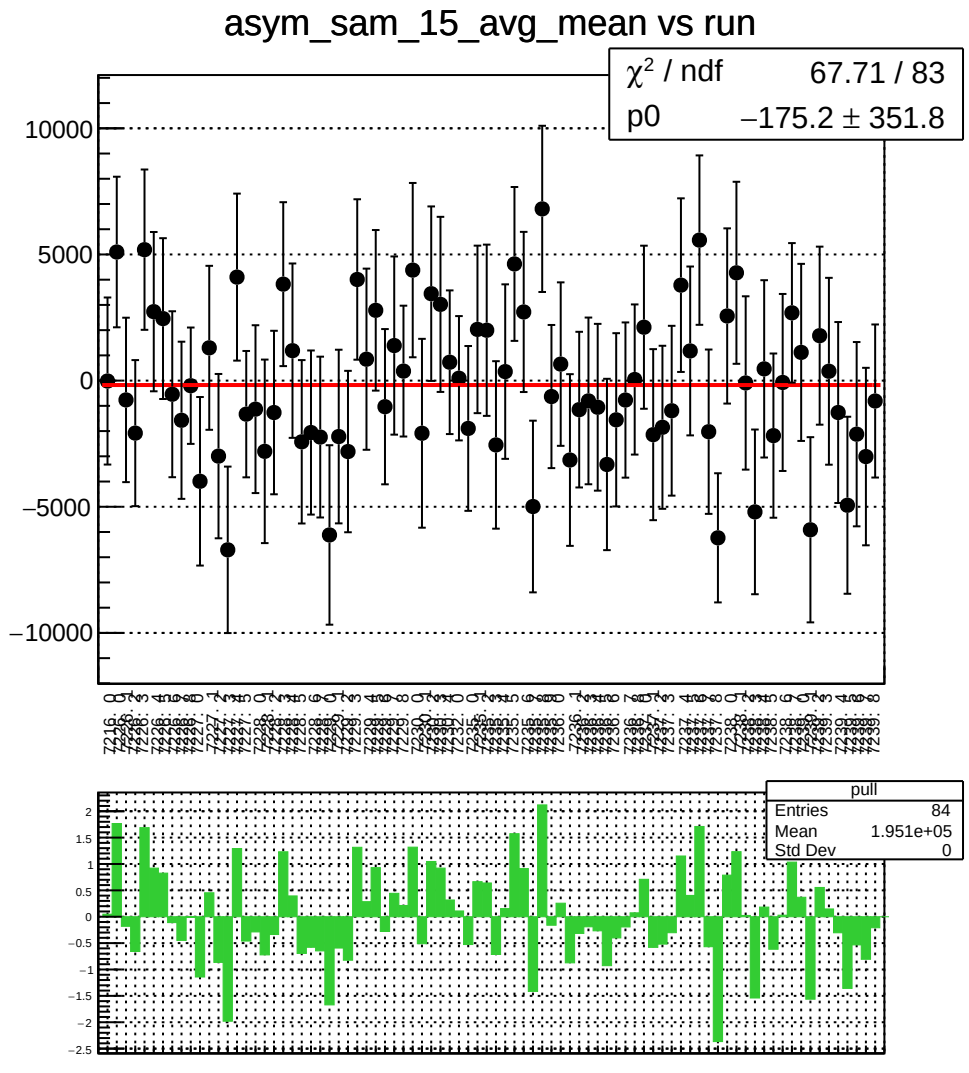
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

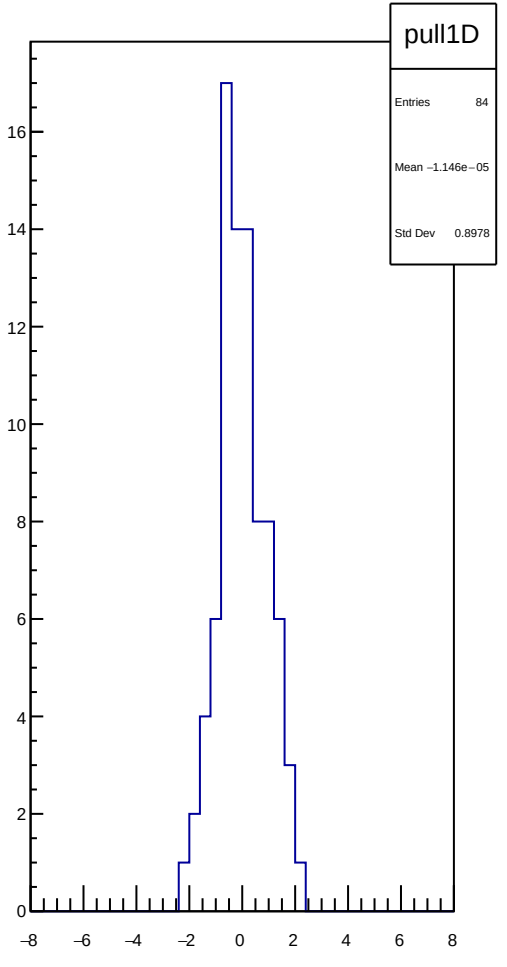

eigen_dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 1496 / 83
p0 66.35 ± 0.05205
74
72
70
68
66
64

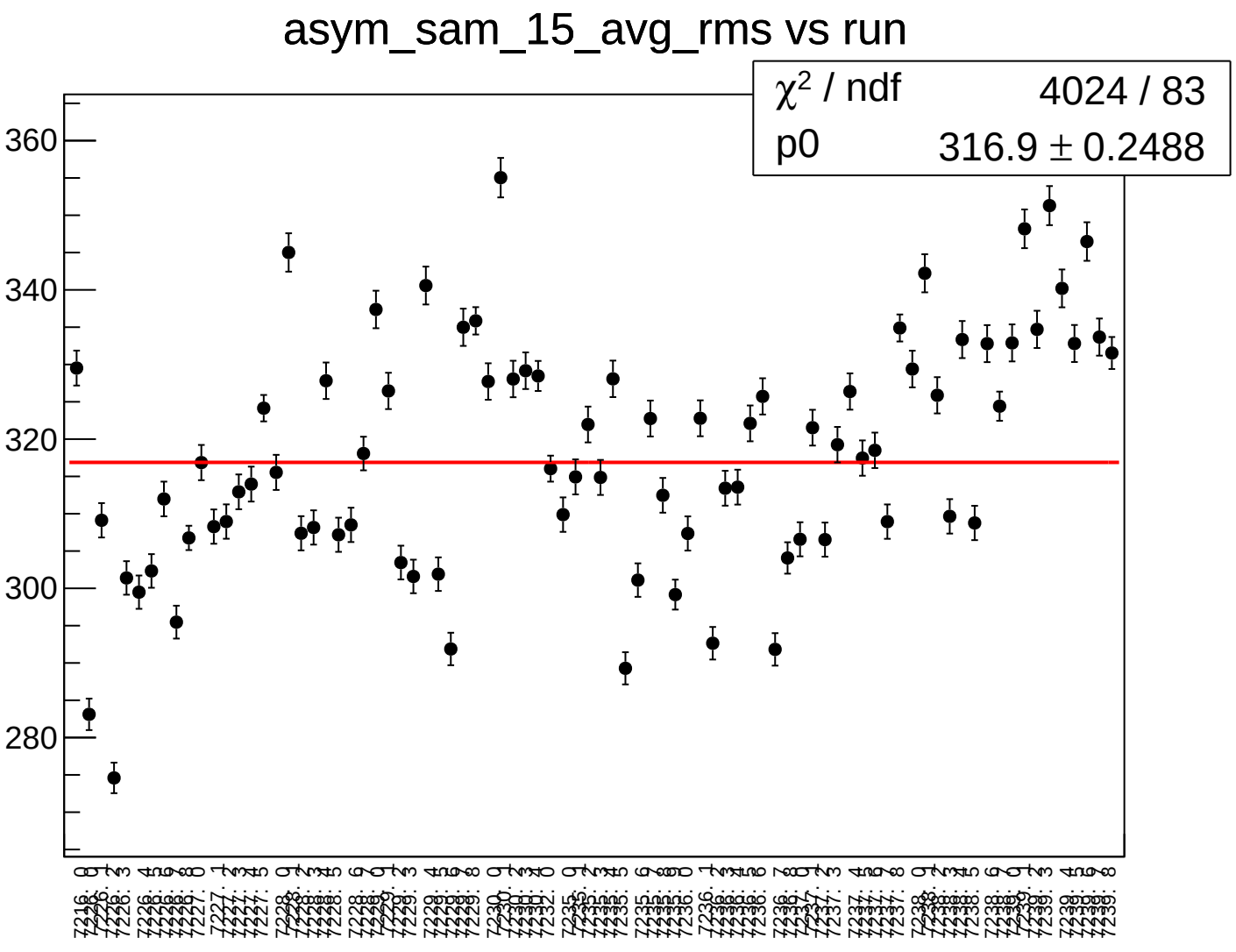

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 63.59 / 83
p0 73.38 ± 362
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −146.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

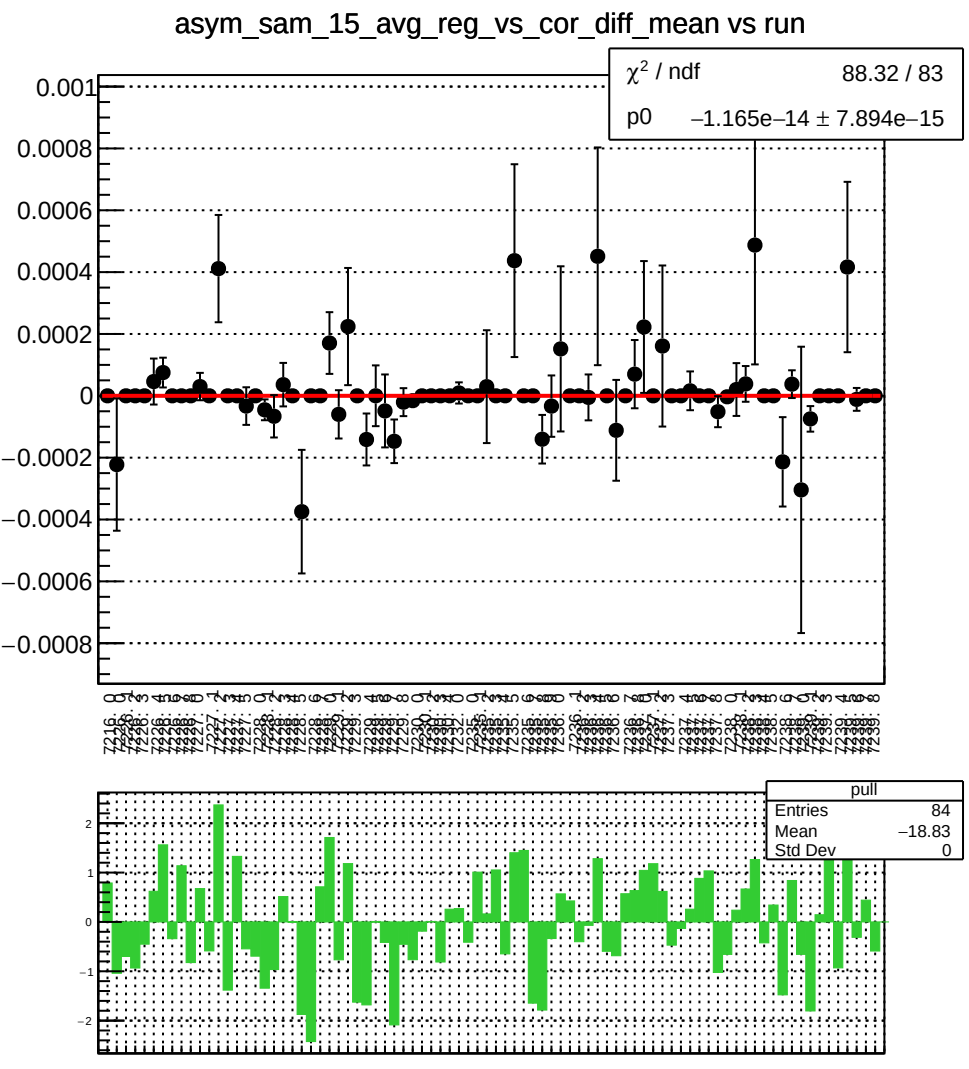

pull1D
Entries 84
Mean −0.006164
Std Dev 0.87
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

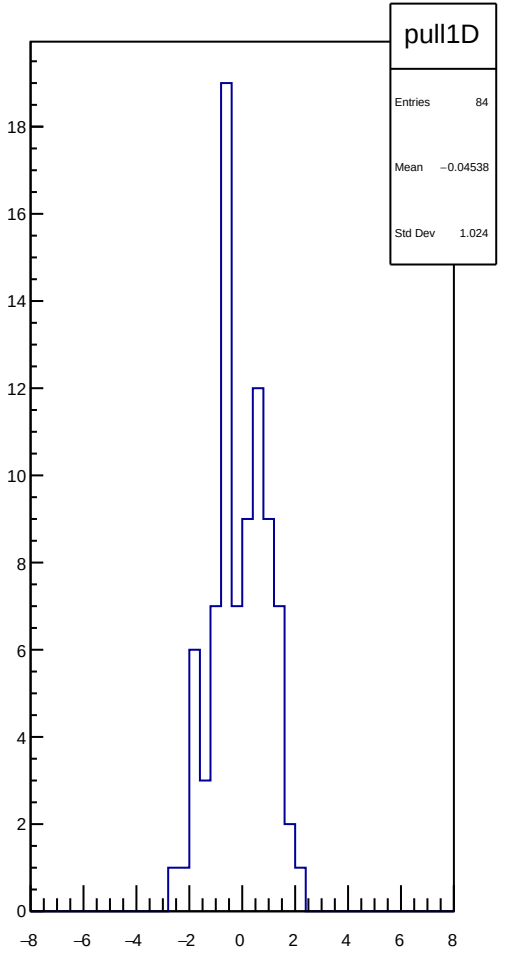

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 3238 / 83
p0 326.1 ± 0.256
360
350
340
330
320
310
300
290
280

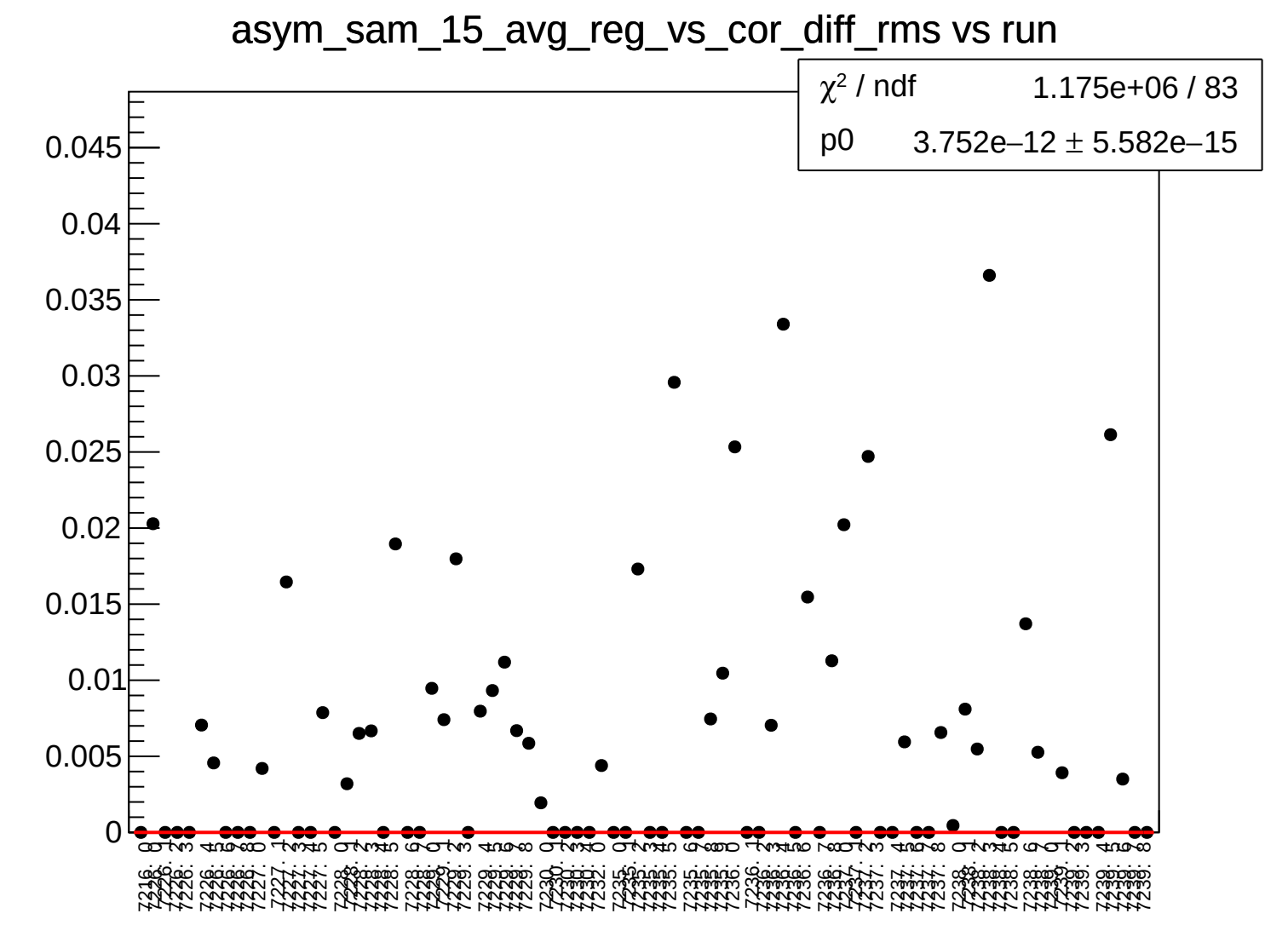

asym_sam_15_avg_mean vs run
χ² / ndf 67.71 / 83
p0 −175.2 ± 351.8
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 1.951e+05
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

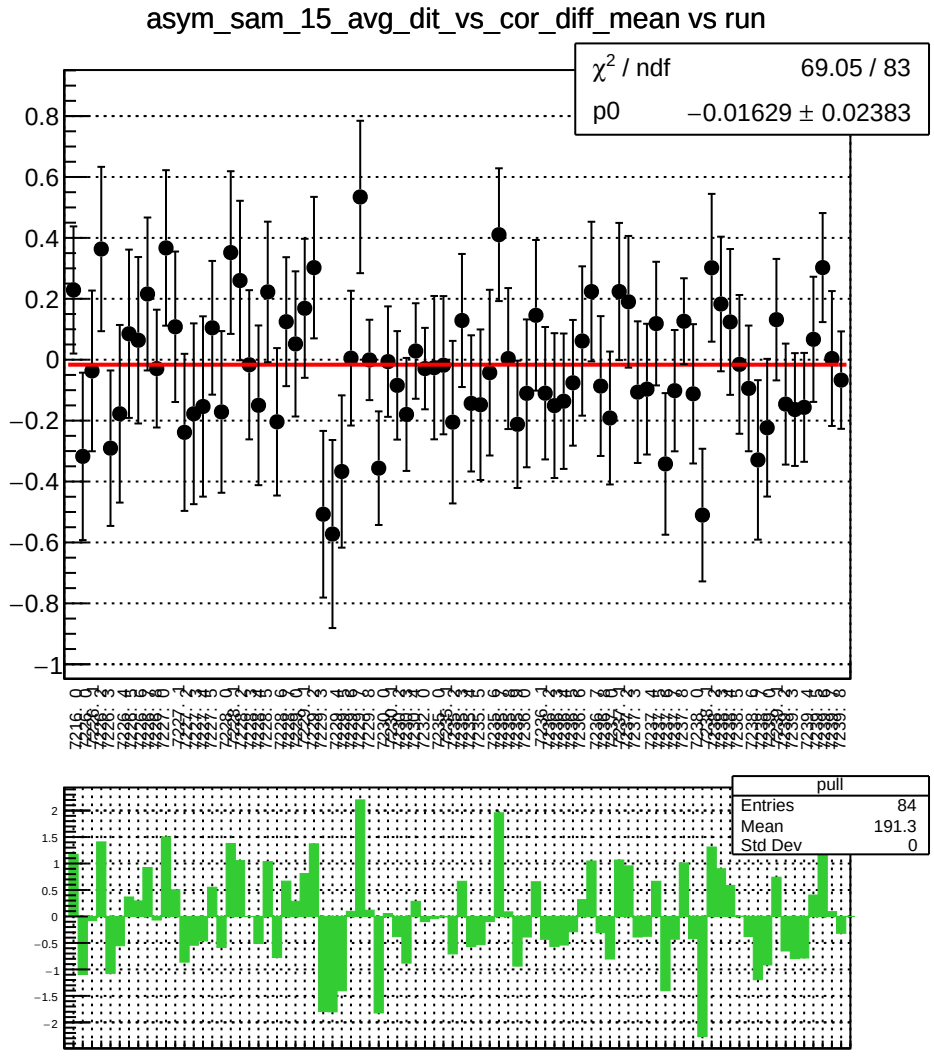

pull1D
Entries 84
Mean −1.146e−05
Std Dev 0.8978
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

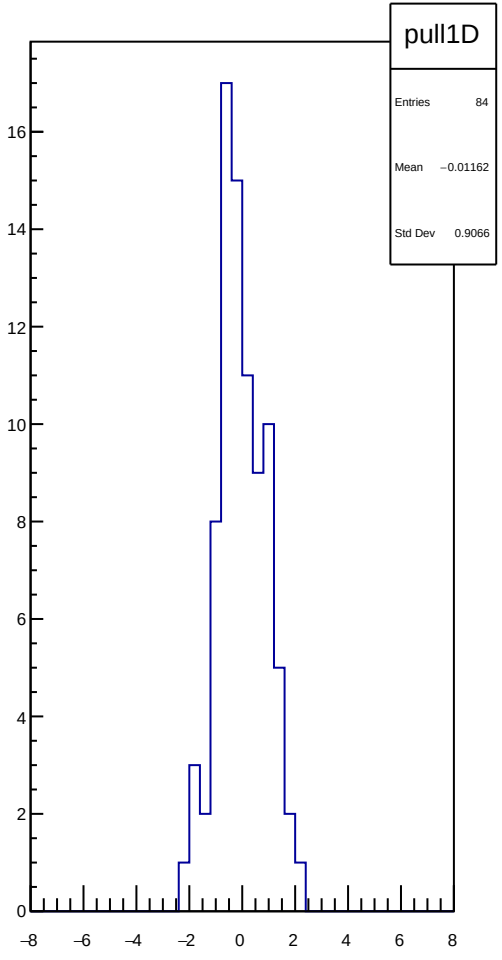

asym_sam_15_avg_rms vs run
χ^2 / ndf 4024 / 83
p0 316.9 ± 0.2488
360
340
320
300
280

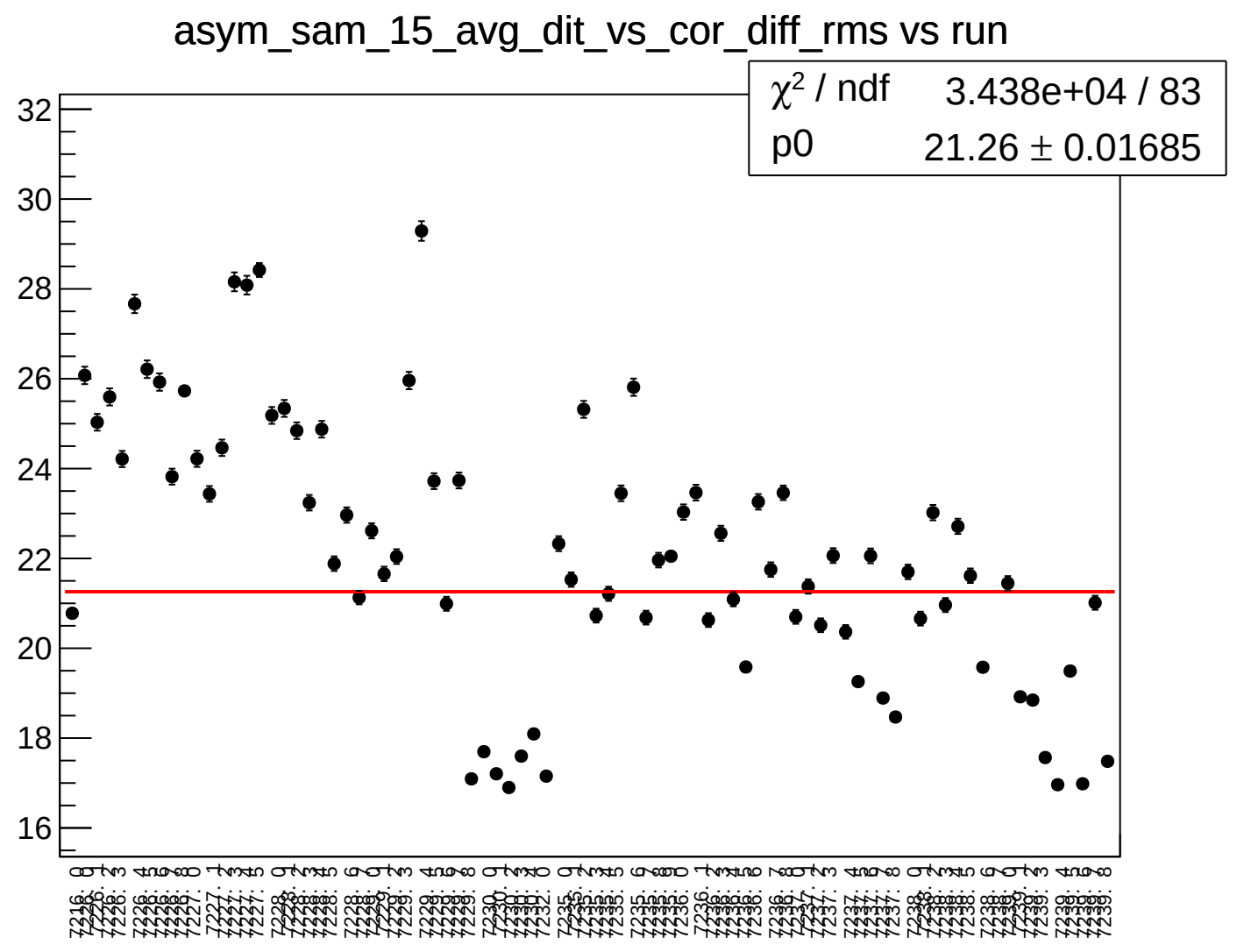

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 88.32 / 83
p0 −1.165e−14 ± 7.894e−15
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 84
Mean −18.83
Std Dev 0
2
1
0
−1
−2

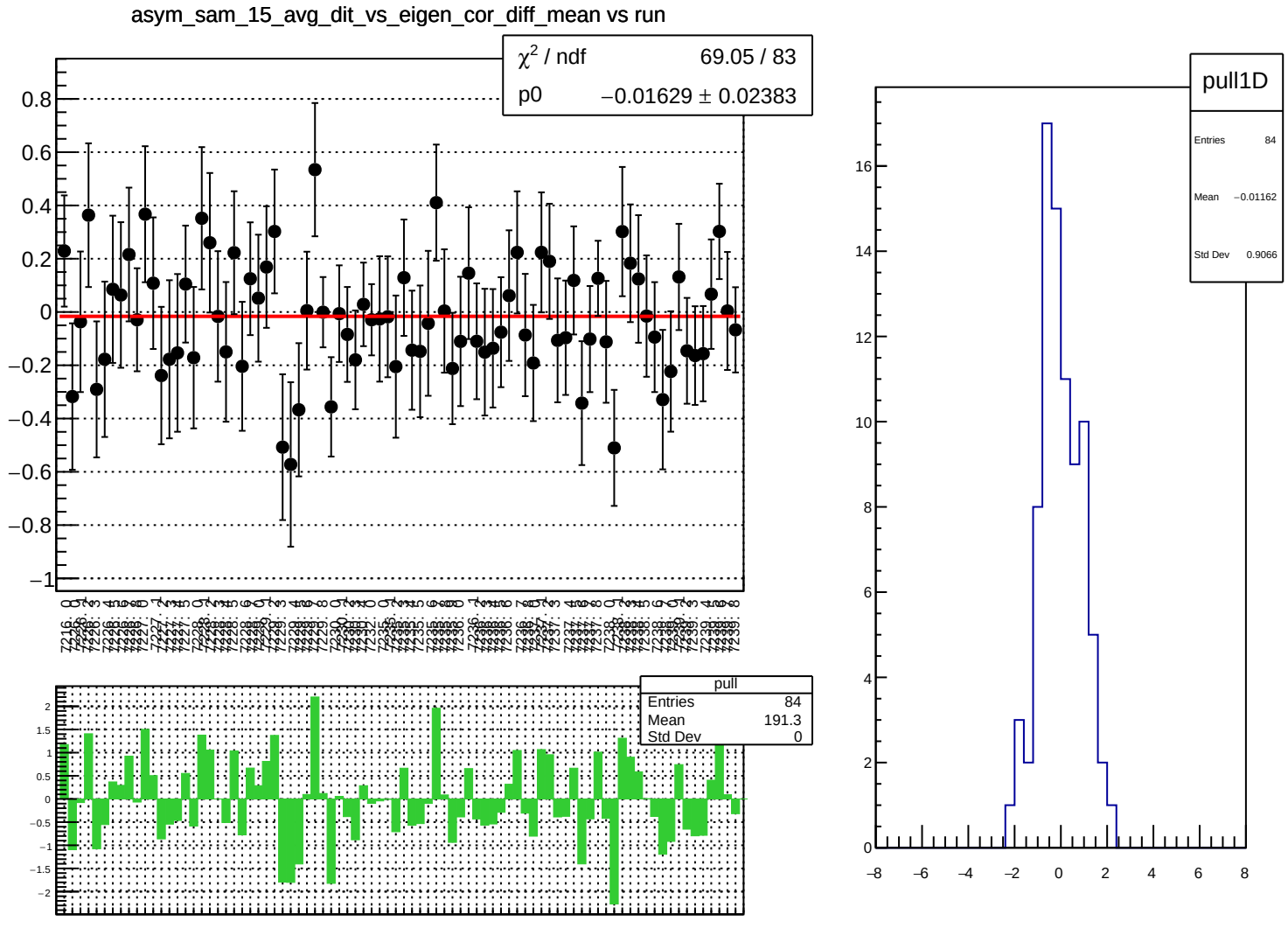

pull1D
Entries 84
Mean −0.04538
Std Dev 1.024
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

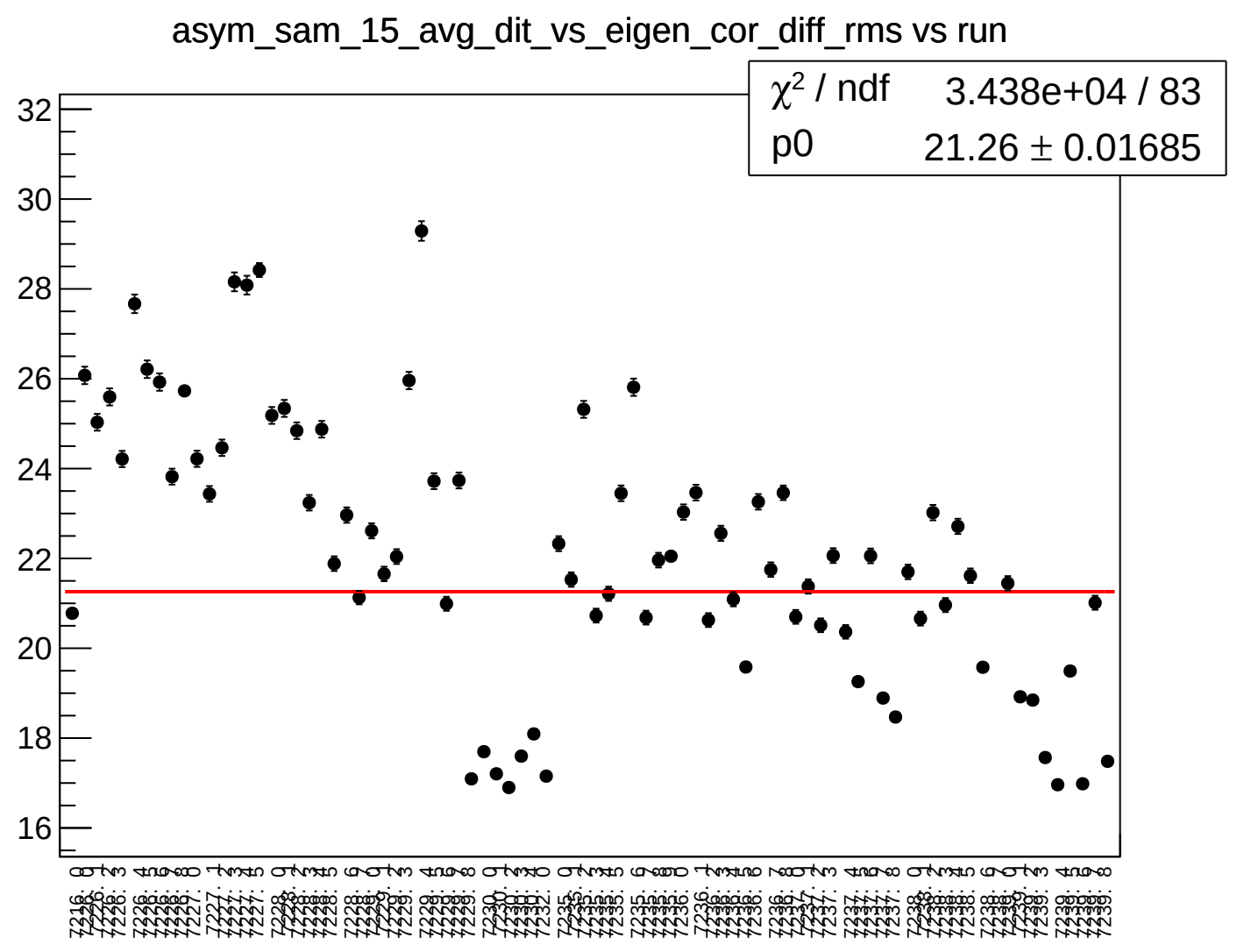

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.175e+06 / 83
p0 3.752e−12 ± 5.582e−15
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

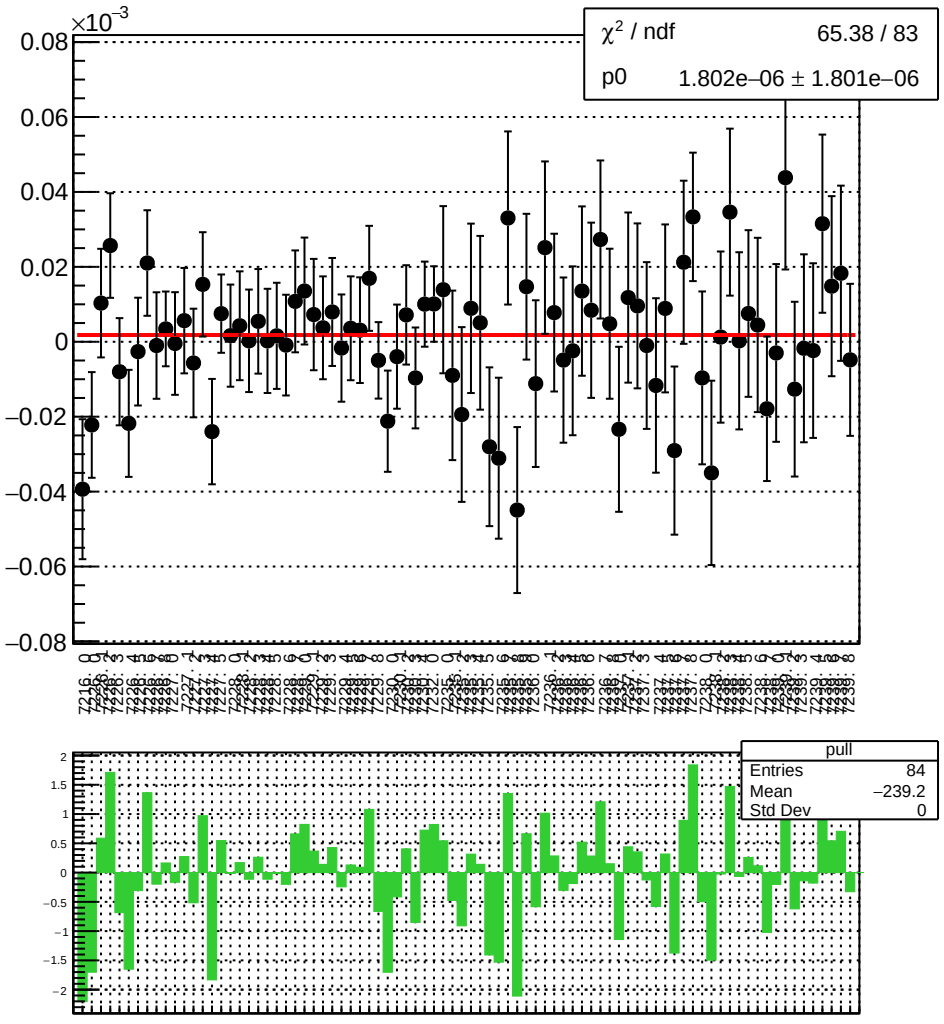

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 69.05 / 83
p0 −0.01629 ± 0.02383
pull
Entries 84
Mean 191.3
Std Dev 0

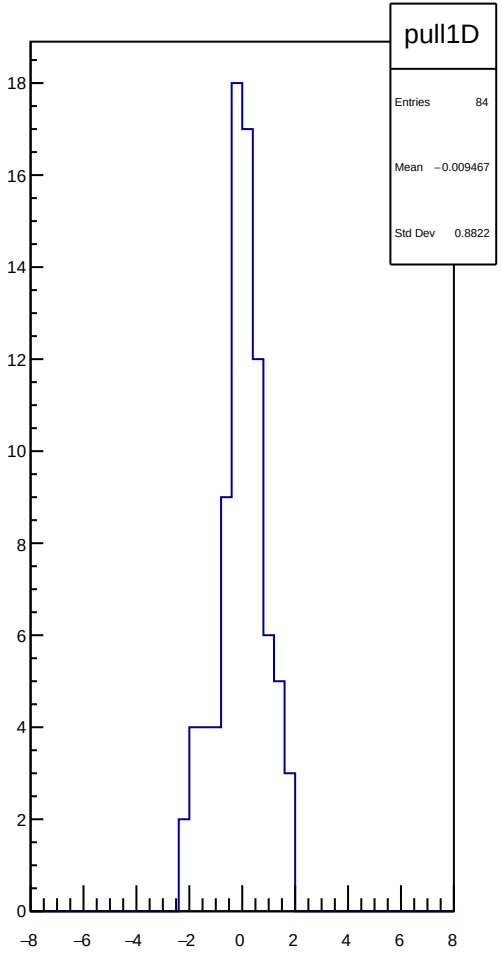

pull1D
Entries 84
Mean −0.01162
Std Dev 0.9066

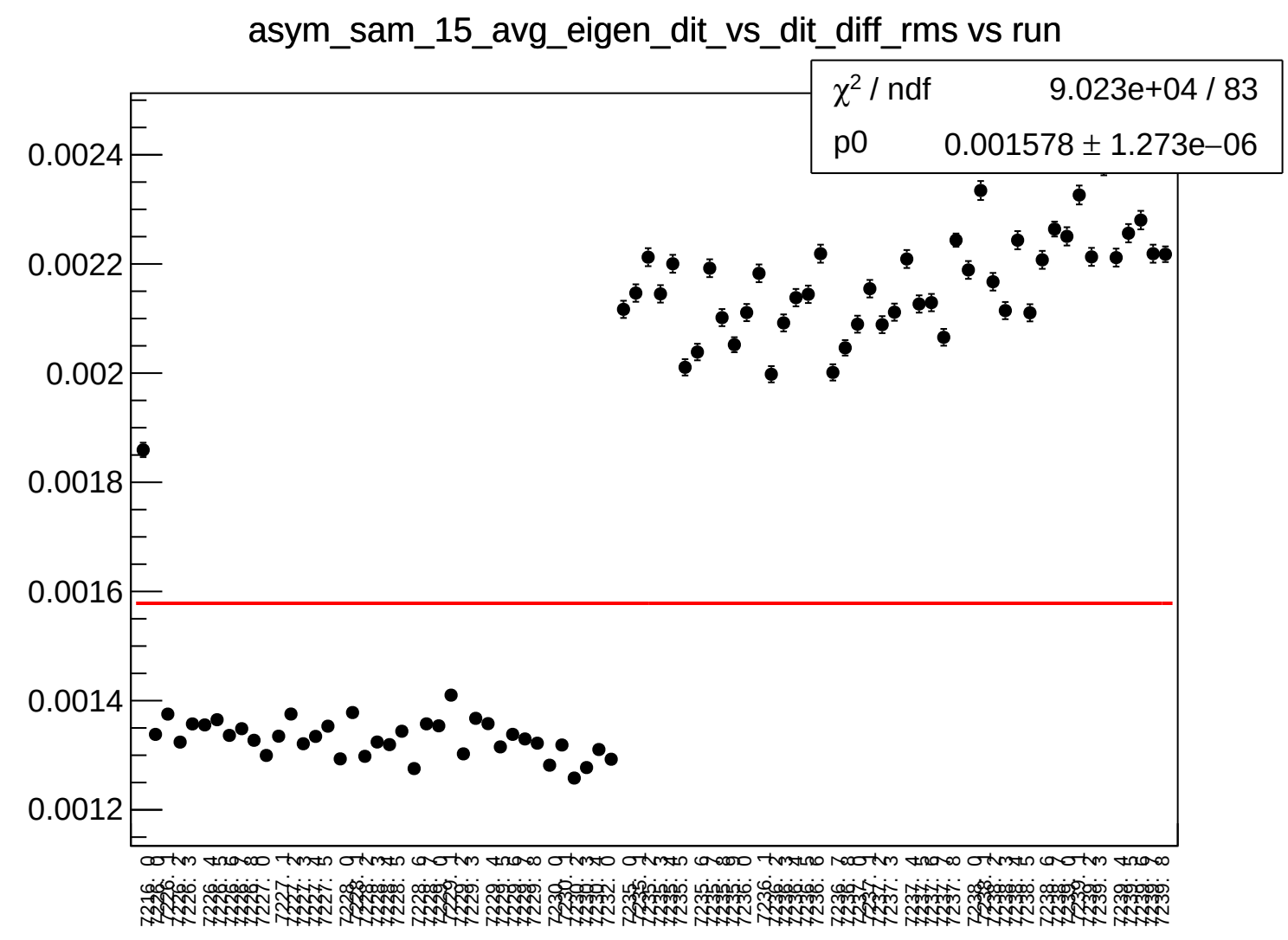

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.438e+04 / 83
p0 21.26 ± 0.01685
32
30
28
26
24
22
20
18
16

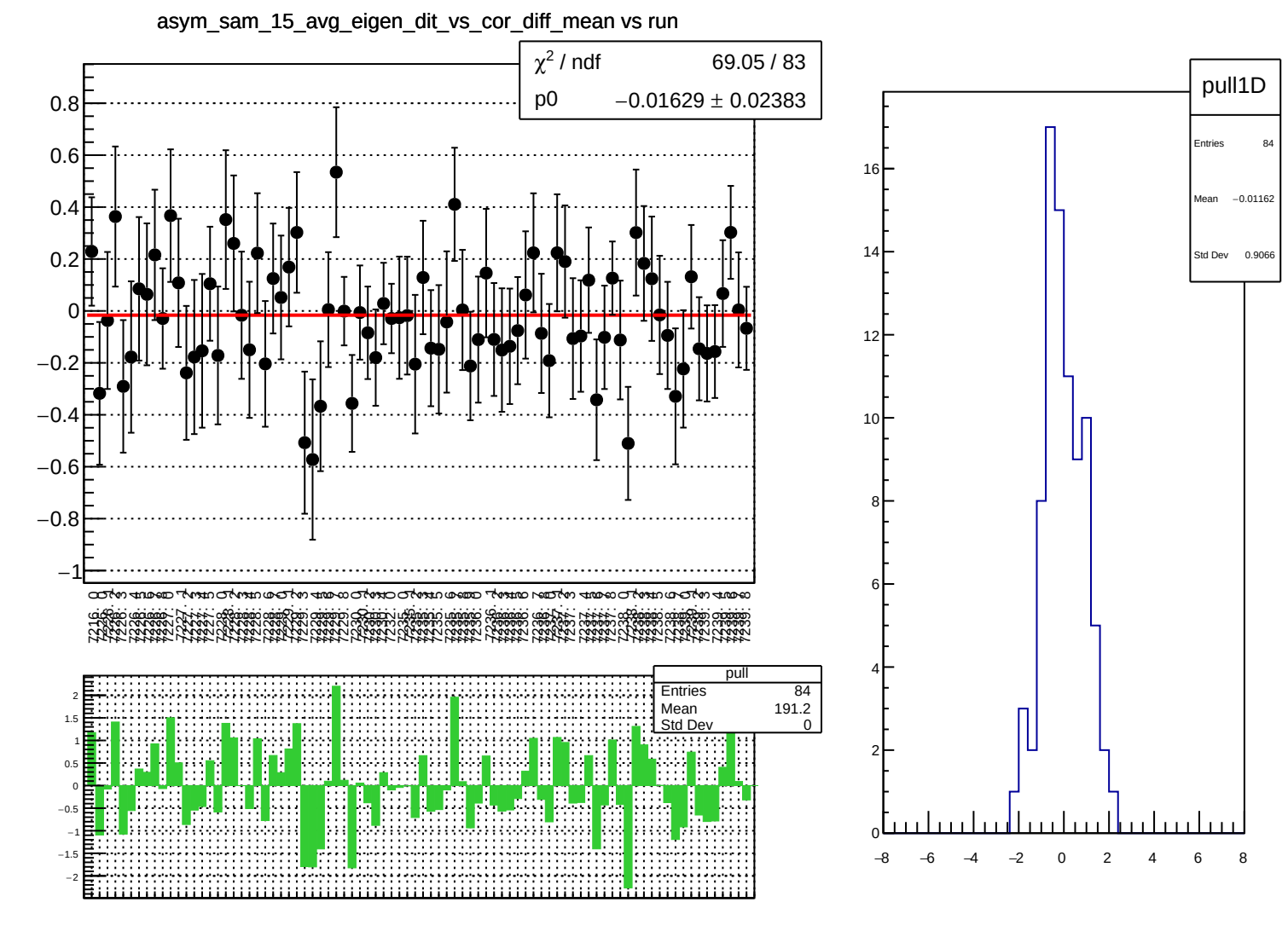

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.05 / 83
p0 −0.01629 ± 0.02383
pull
Entries 84
Mean 191.3
Std Dev 0
pull1D
Entries 84
Mean −0.01162
Std Dev 0.9066

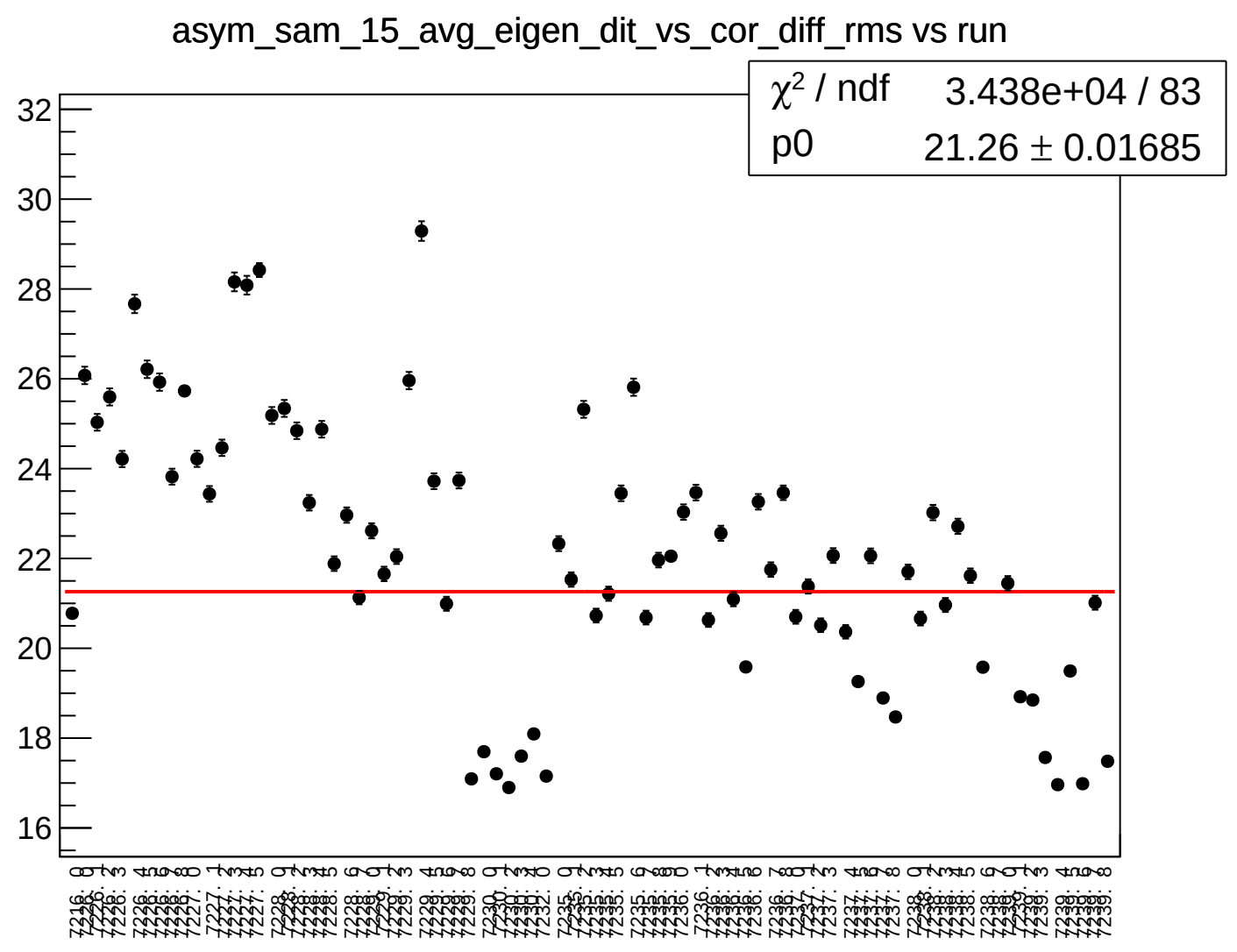

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.438e+04 / 83
p0 21.26 ± 0.01685
32
30
28
26
24
22
20
18
16

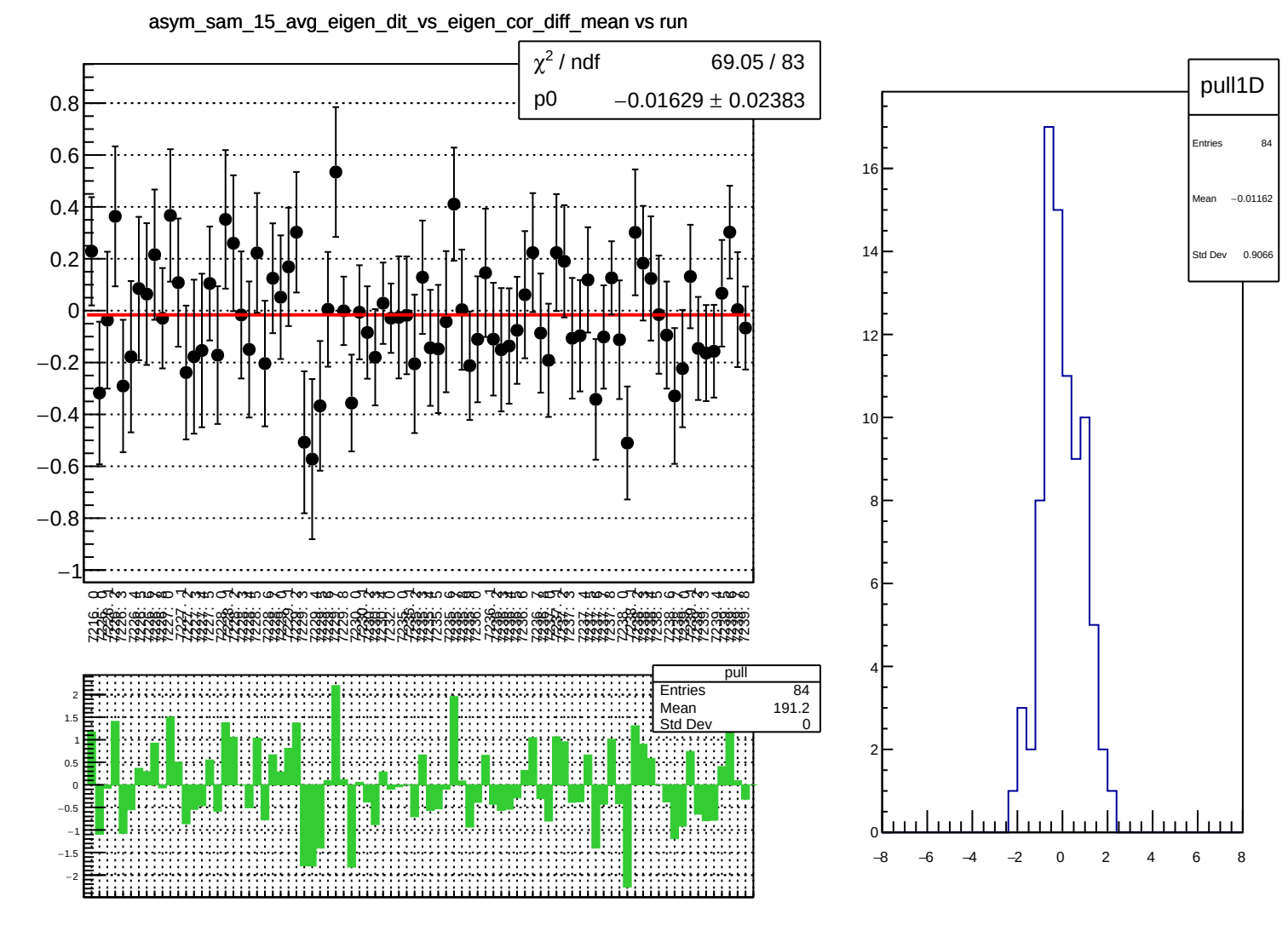

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 65.38 / 83
p0 1.802e−06 ± 1.801e−06
pull
Entries 84
Mean −239.2
Std Dev 0

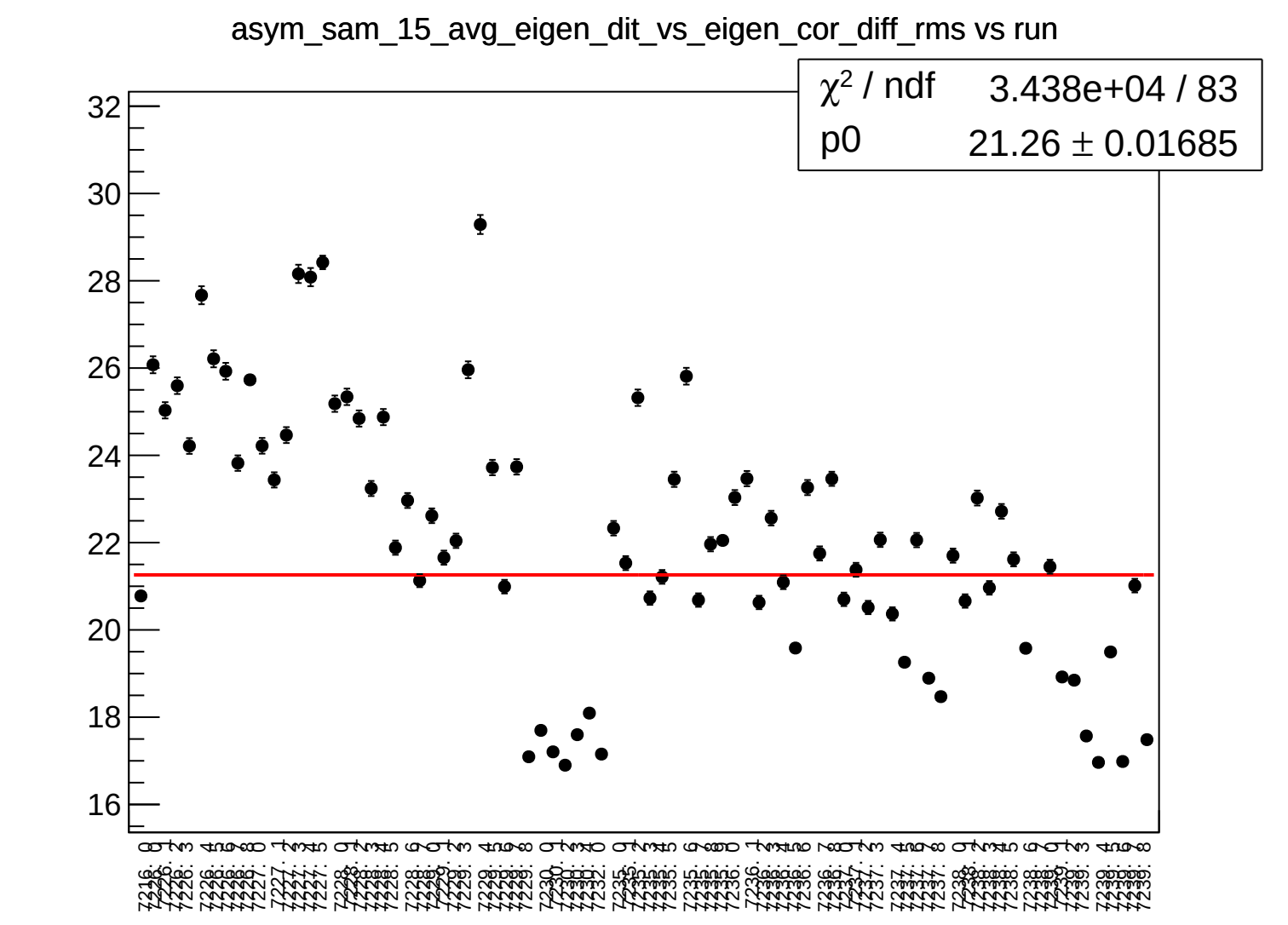

pull1D
Entries 84
Mean −0.009467
Std Dev 0.8822

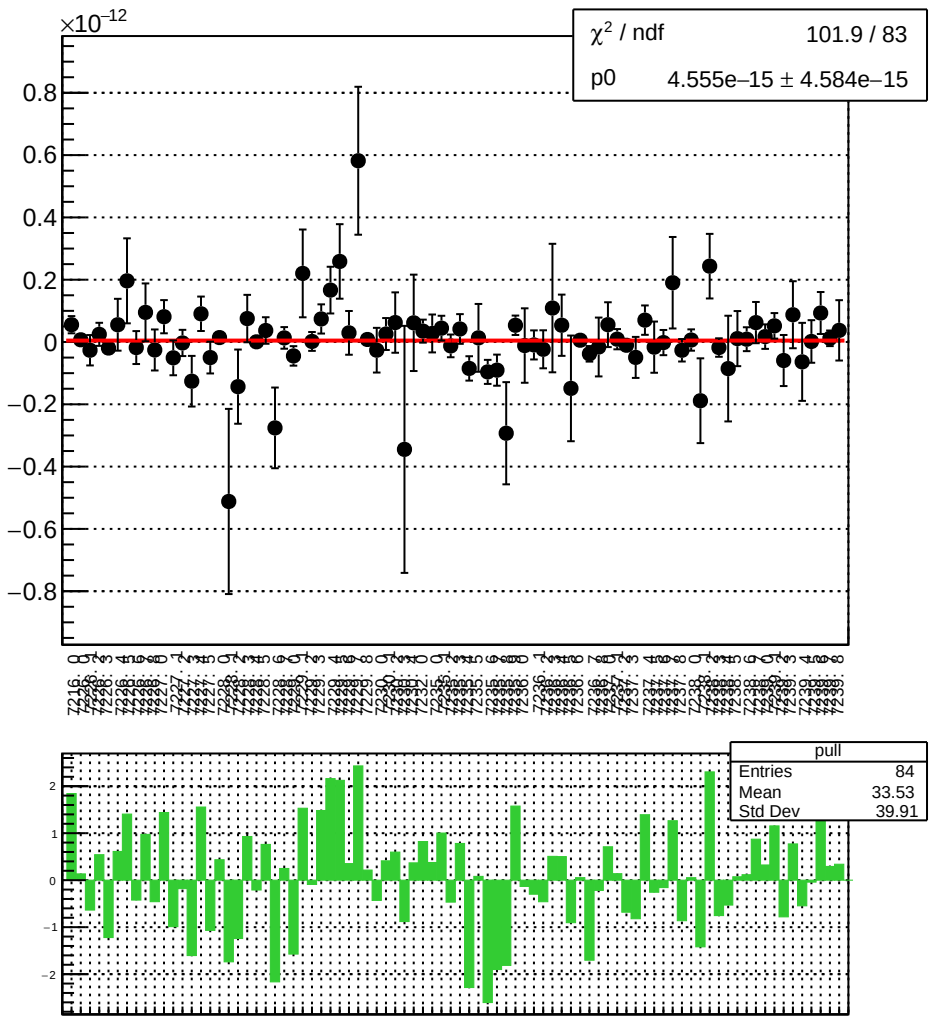

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.023e+04 / 83
p0 0.001578 ± 1.273e−06
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012

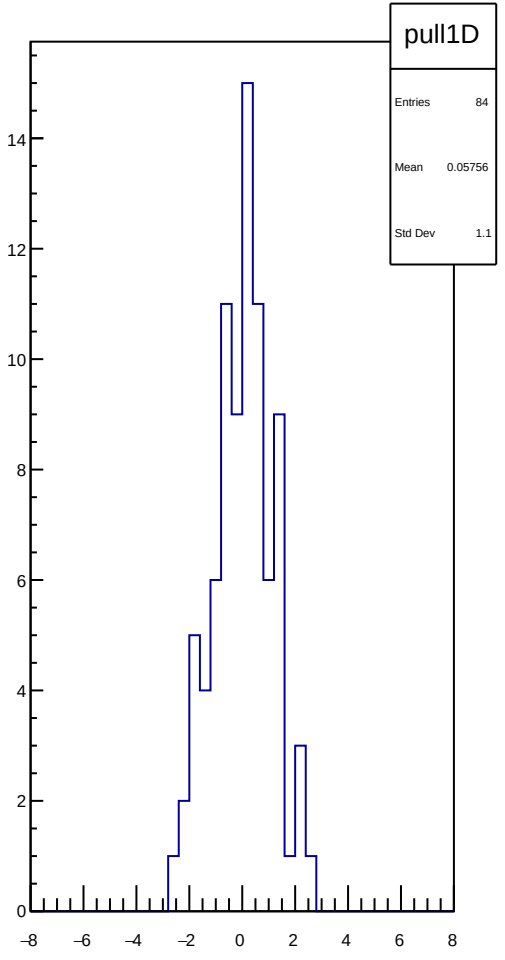

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.05 / 83
p0 −0.01629 ± 0.02383
pull
Entries 84
Mean 191.2
Std Dev 0
pull1D
Entries 84
Mean −0.01162
Std Dev 0.9066

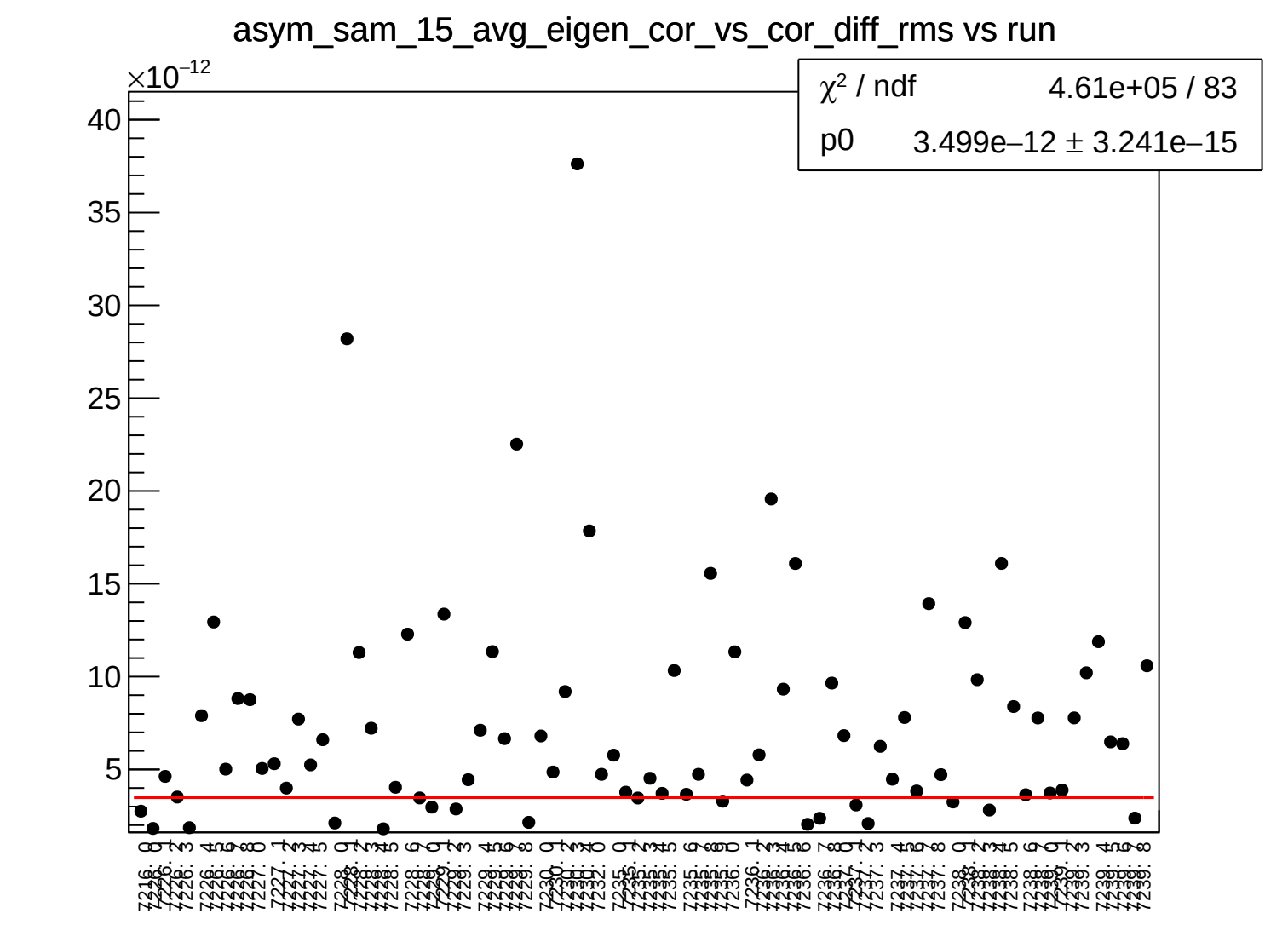

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.438e+04 / 83
p0 21.26 ± 0.01685
32
30
28
26
24
22
20
18
16

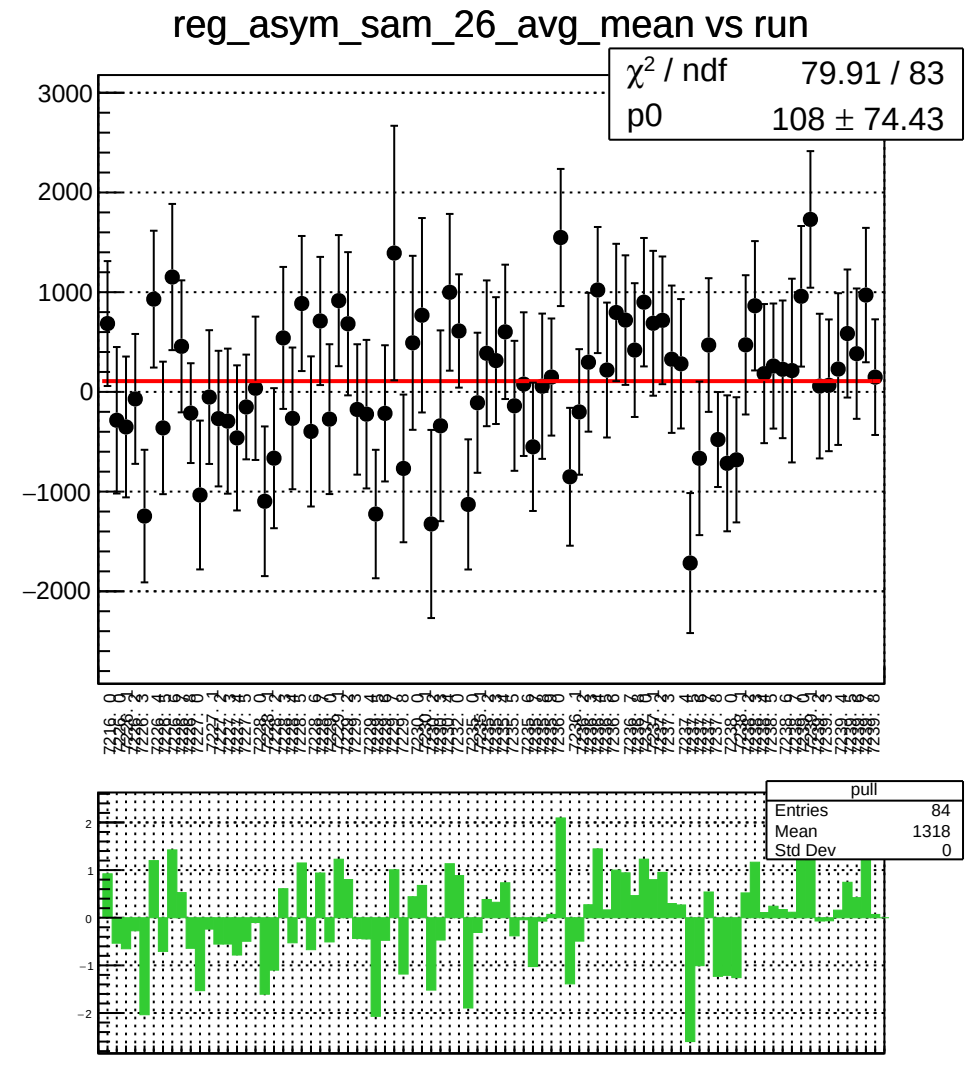

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.05 / 83
p0 −0.01629 ± 0.02383
pull
Entries 84
Mean 191.2
Std Dev 0
pull1D
Entries 84
Mean −0.01162
Std Dev 0.9066

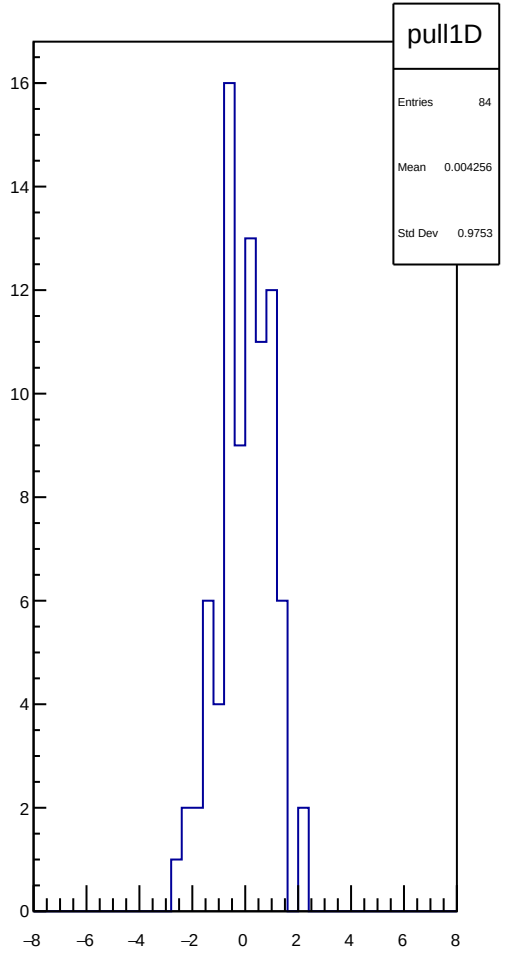

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.438e+04 / 83
p0 21.26 ± 0.01685
32
30
28
26
24
22
20
18
16

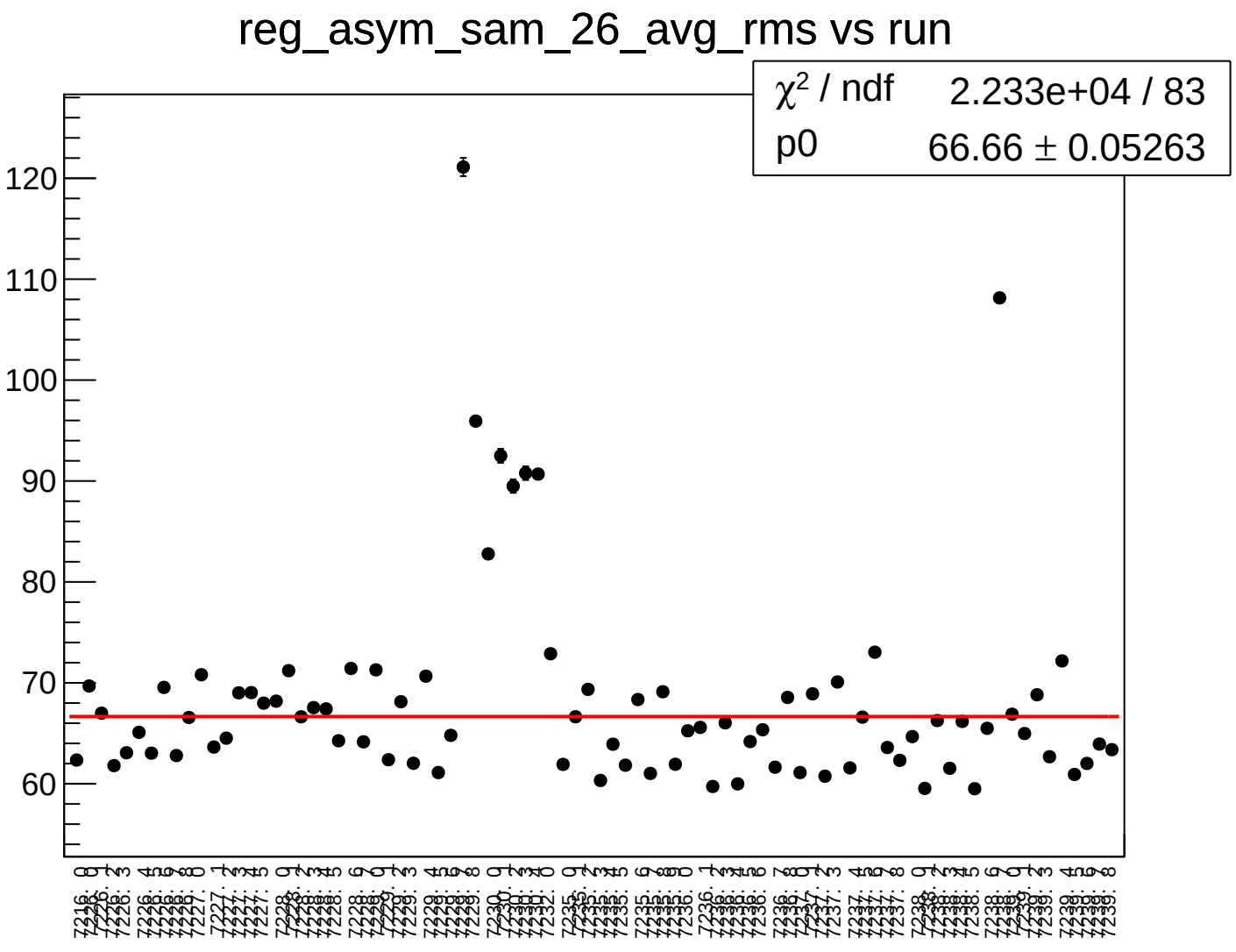

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 101.9 / 83
p0 4.555e−15 ± 4.584e−15
pull
Entries 84
Mean 33.53
Std Dev 39.91

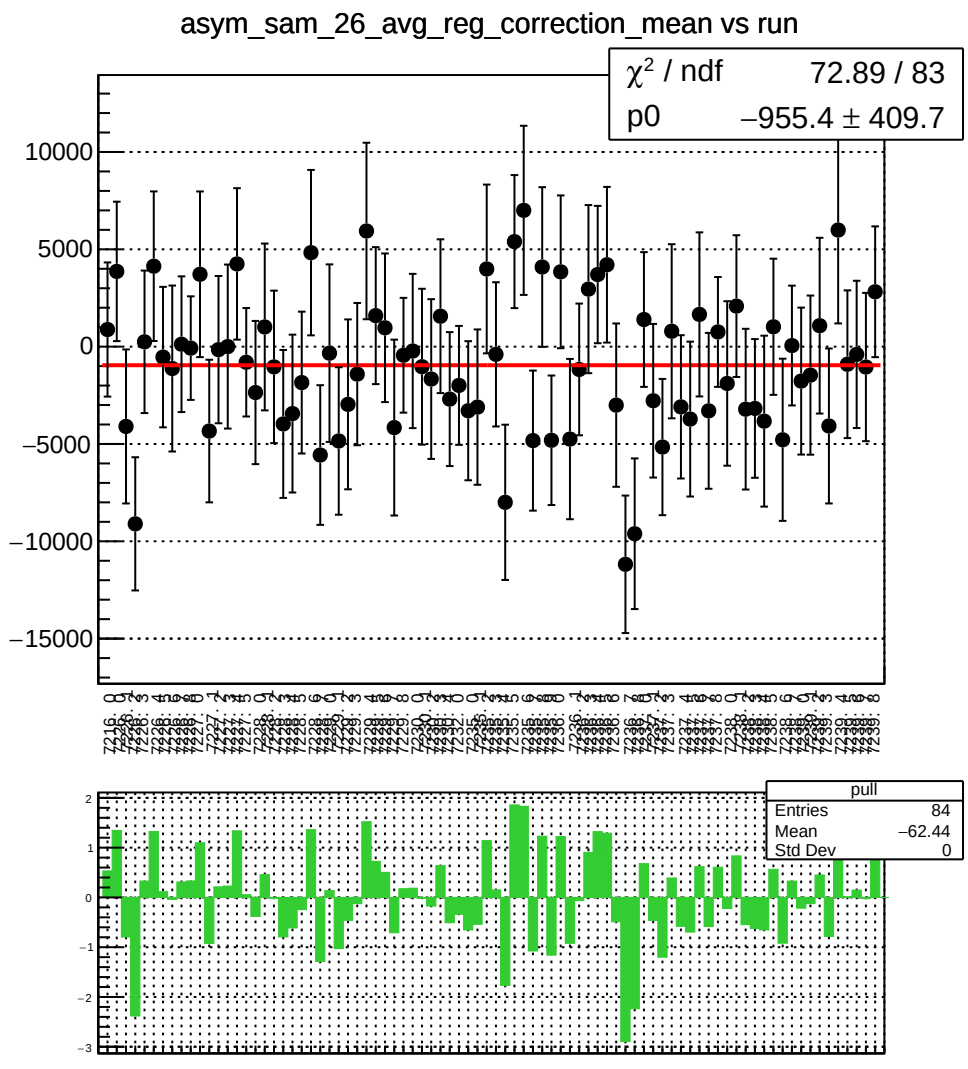

pull1D
Entries 84
Mean 0.05756
Std Dev 1.1

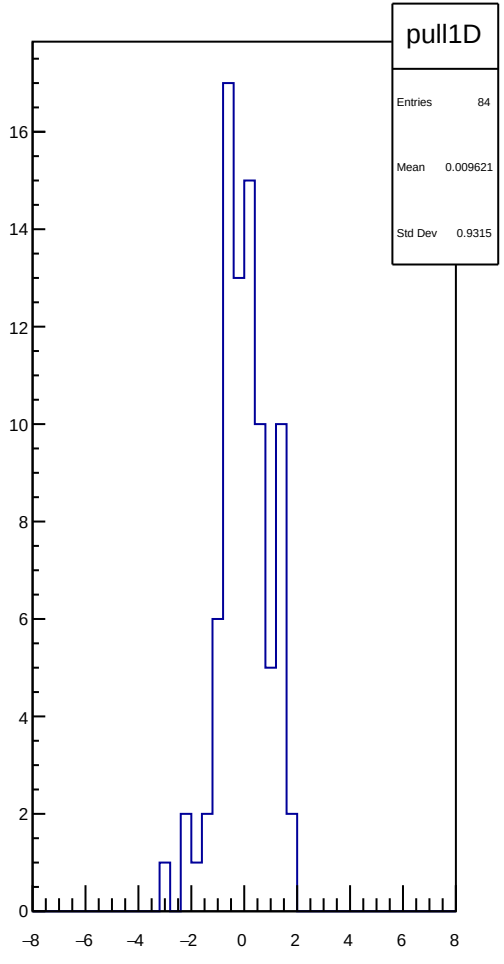

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
40
35
30
25
20
15
10
5
χ² / ndf 4.61e+05 / 83
p0 3.499e−12 ± 3.241e−15

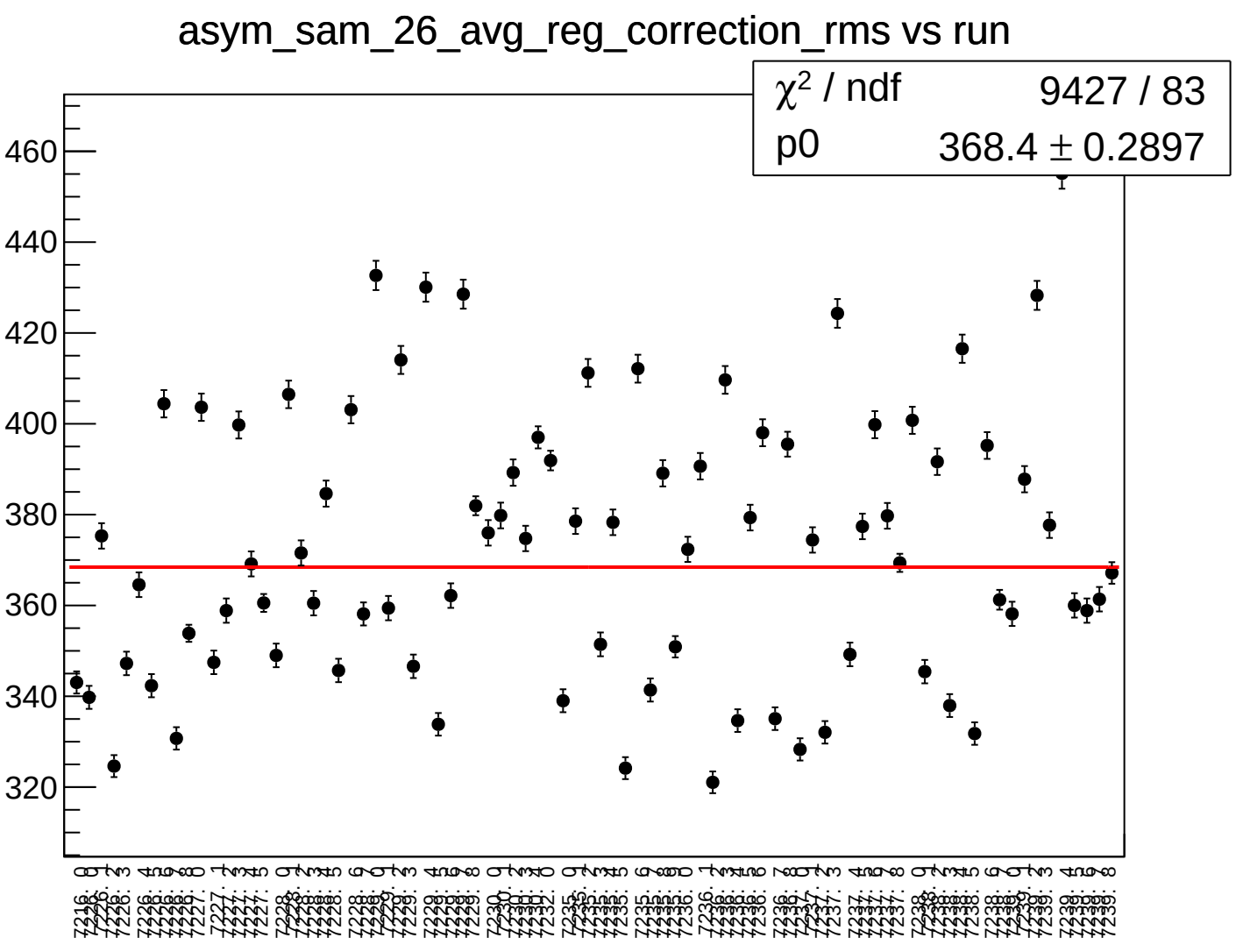

reg_asym_sam_26_avg_mean vs run
χ² / ndf 79.91 / 83
p0 108 ± 74.43
3000
2000
1000
0
−1000
−2000
pull
Entries 84
Mean 1318
Std Dev 0
2
1
0
−1
−2

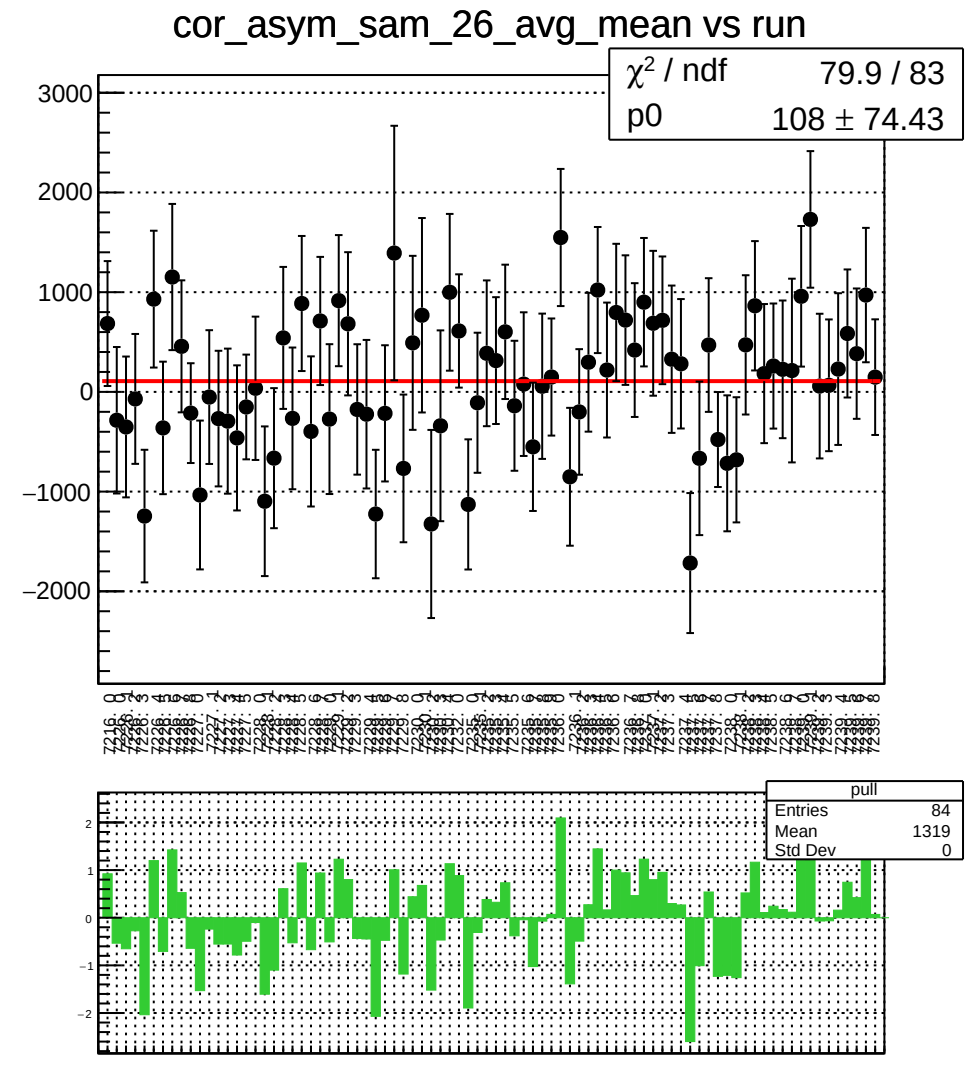

pull1D
Entries 84
Mean 0.004256
Std Dev 0.9753
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

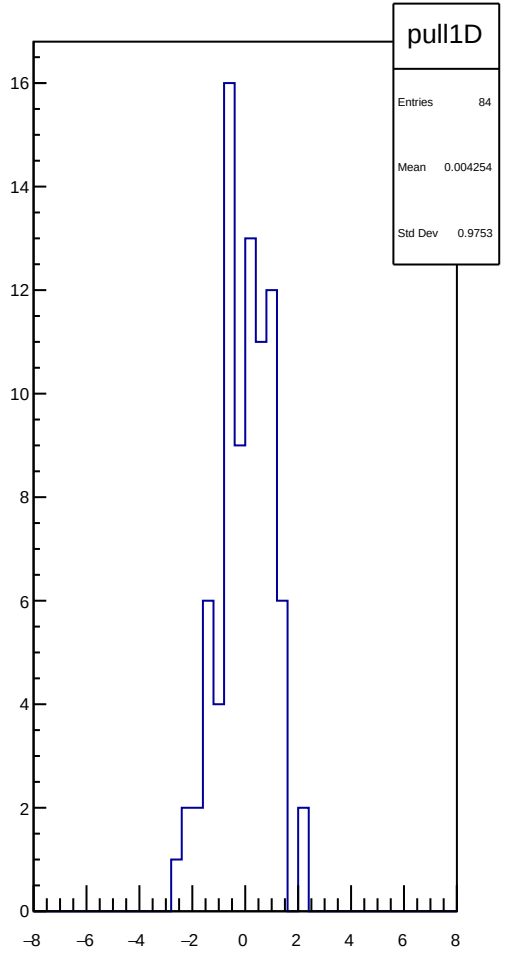

reg_asym_sam_26_avg_rms vs run
χ^2 / ndf 2.233e+04 / 83
p0 66.66 ± 0.05263
120
110
100
90
80
70
60

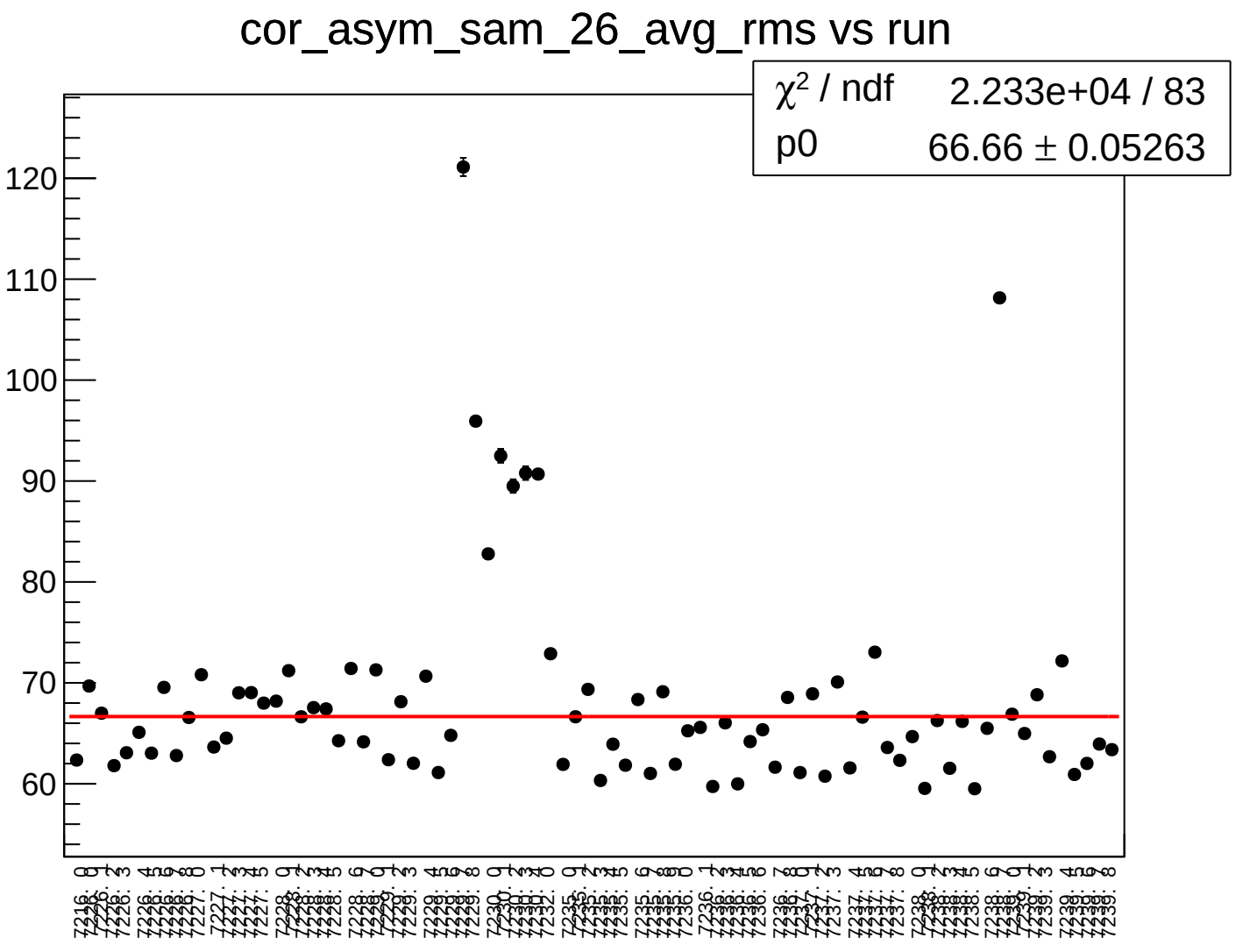

asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 72.89 / 83
p0 −955.4 ± 409.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −62.44
Std Dev 0
2
1
0
−1
−2
−3

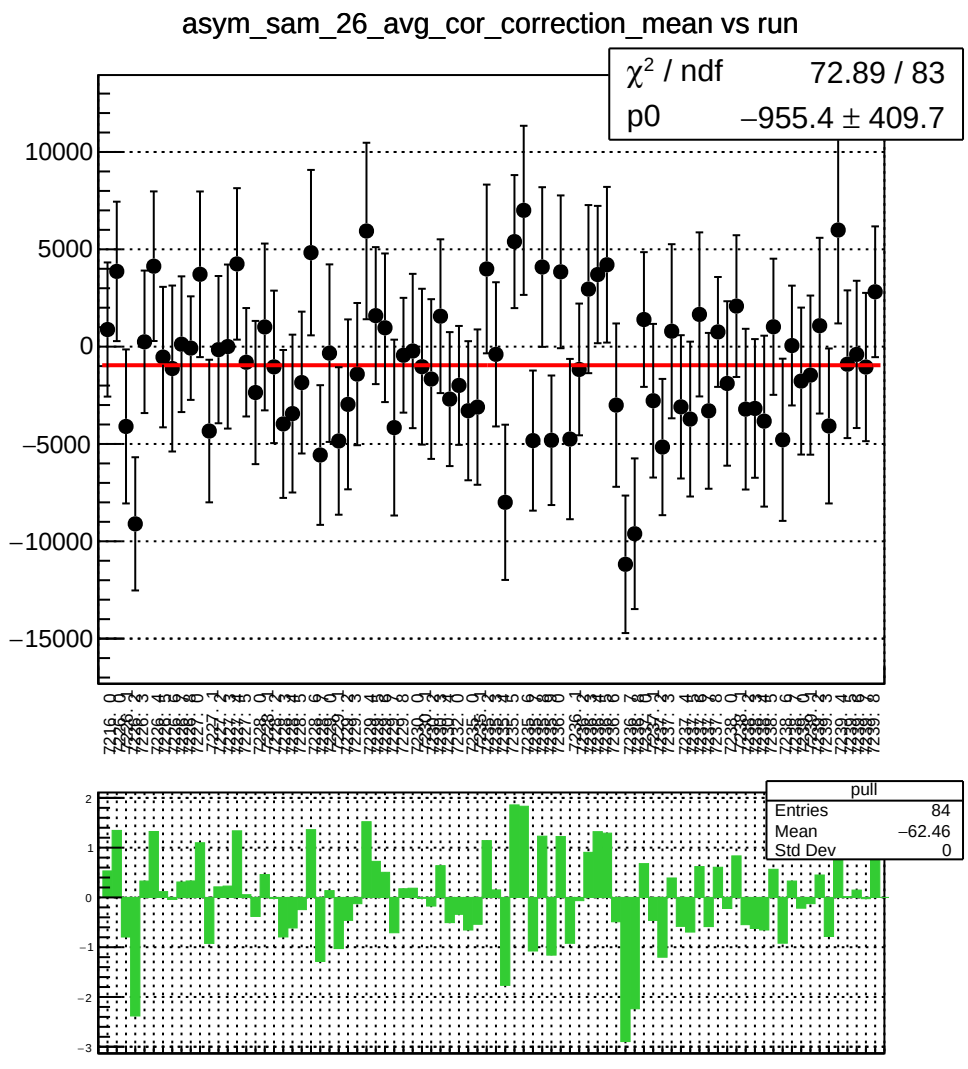

pull1D
Entries 84
Mean 0.009621
Std Dev 0.9315
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

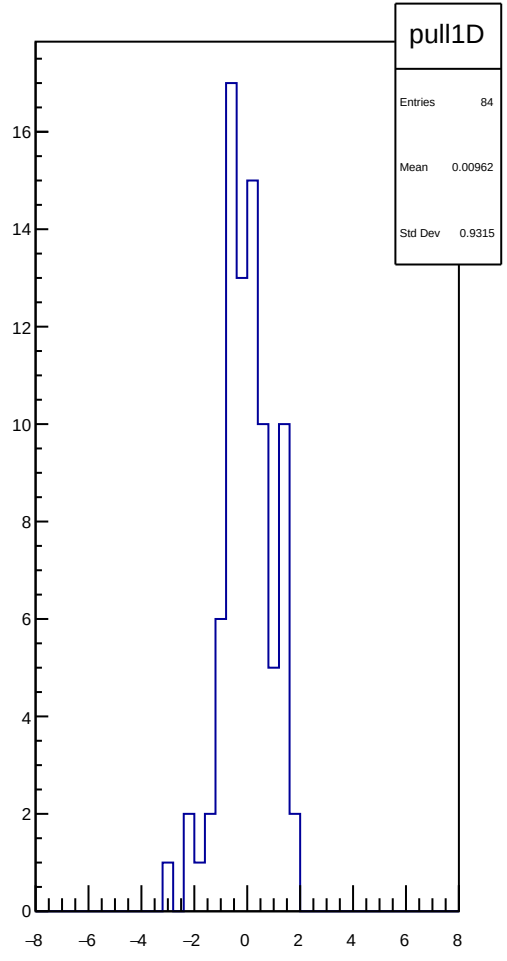

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 9427 / 83
p0 368.4 ± 0.2897
460
440
420
400
380
360
340
320

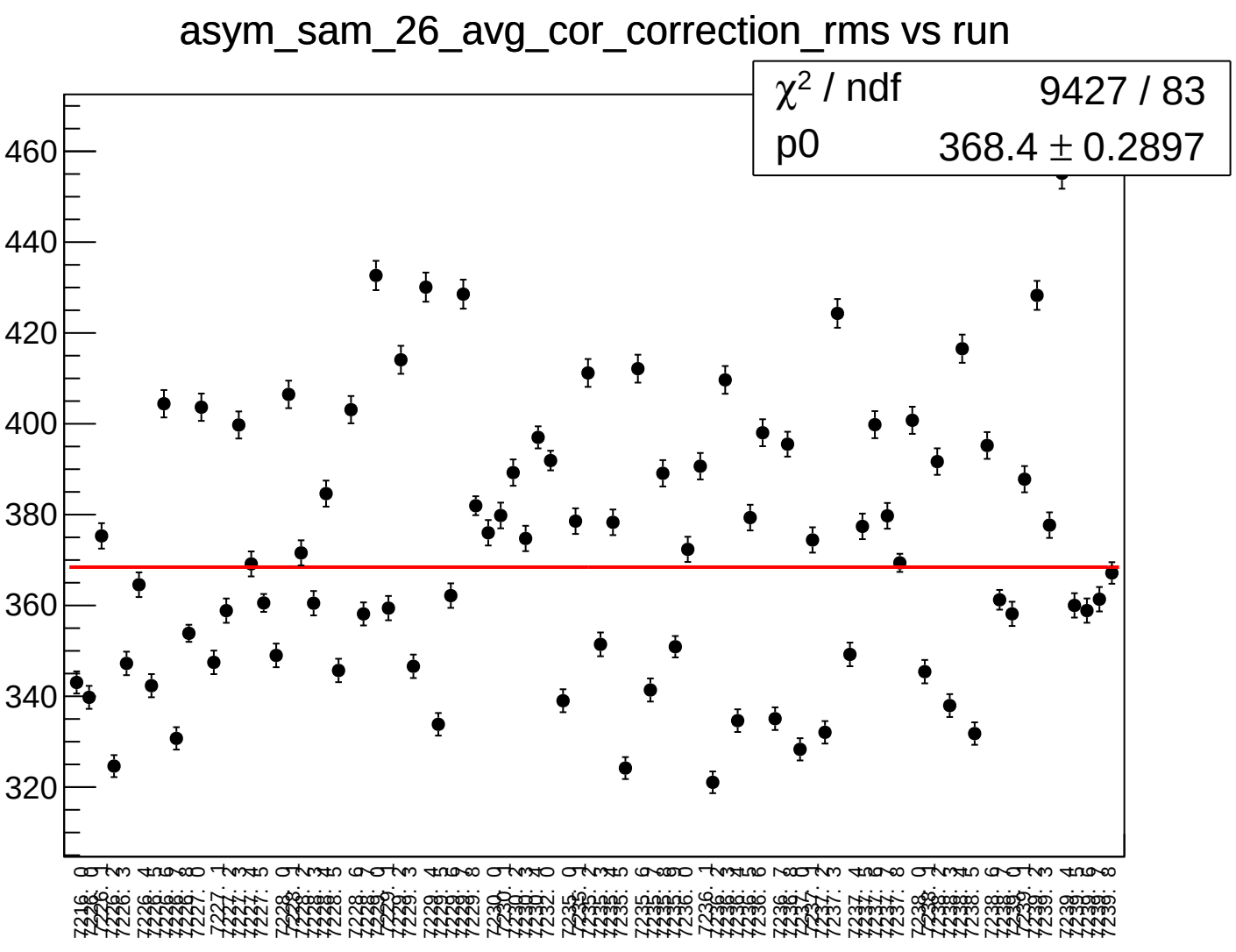

cor_asym_sam_26_avg_mean vs run
χ² / ndf 79.9 / 83
p0 108 ± 74.43
3000
2000
1000
0
−1000
−2000
pull
Entries 84
Mean 1319
Std Dev 0
2
1
0
−1
−2

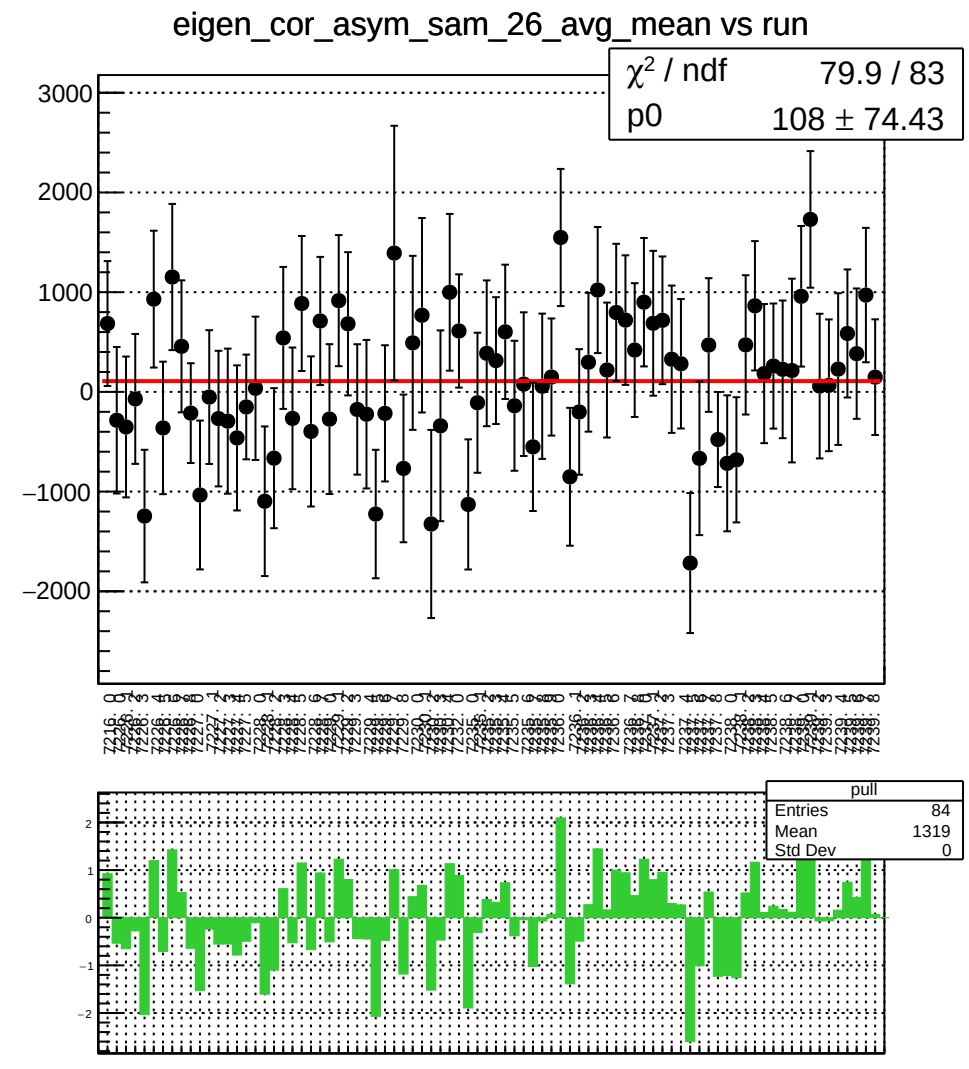

pull1D
Entries 84
Mean 0.004254
Std Dev 0.9753
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

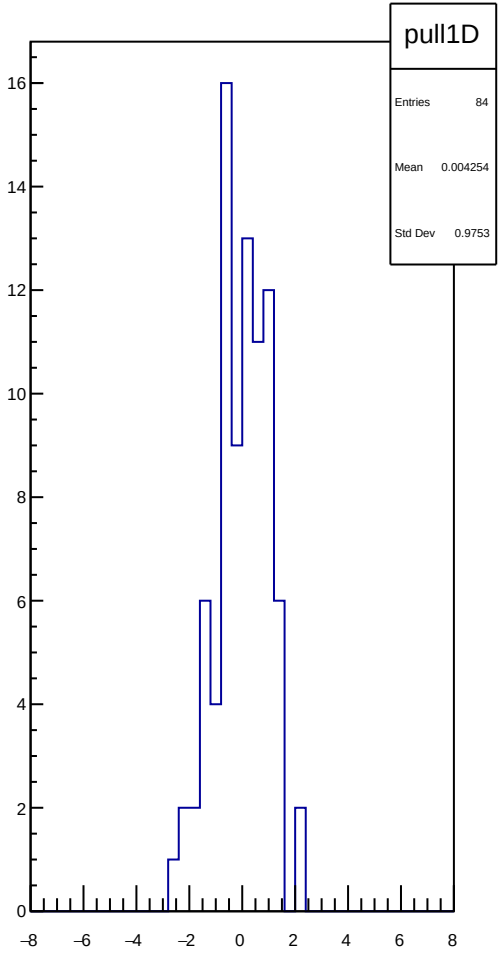

cor_asym_sam_26_avg_rms vs run
χ^2 / ndf 2.233e+04 / 83
p0 66.66 ± 0.05263
120
110
100
90
80
70
60

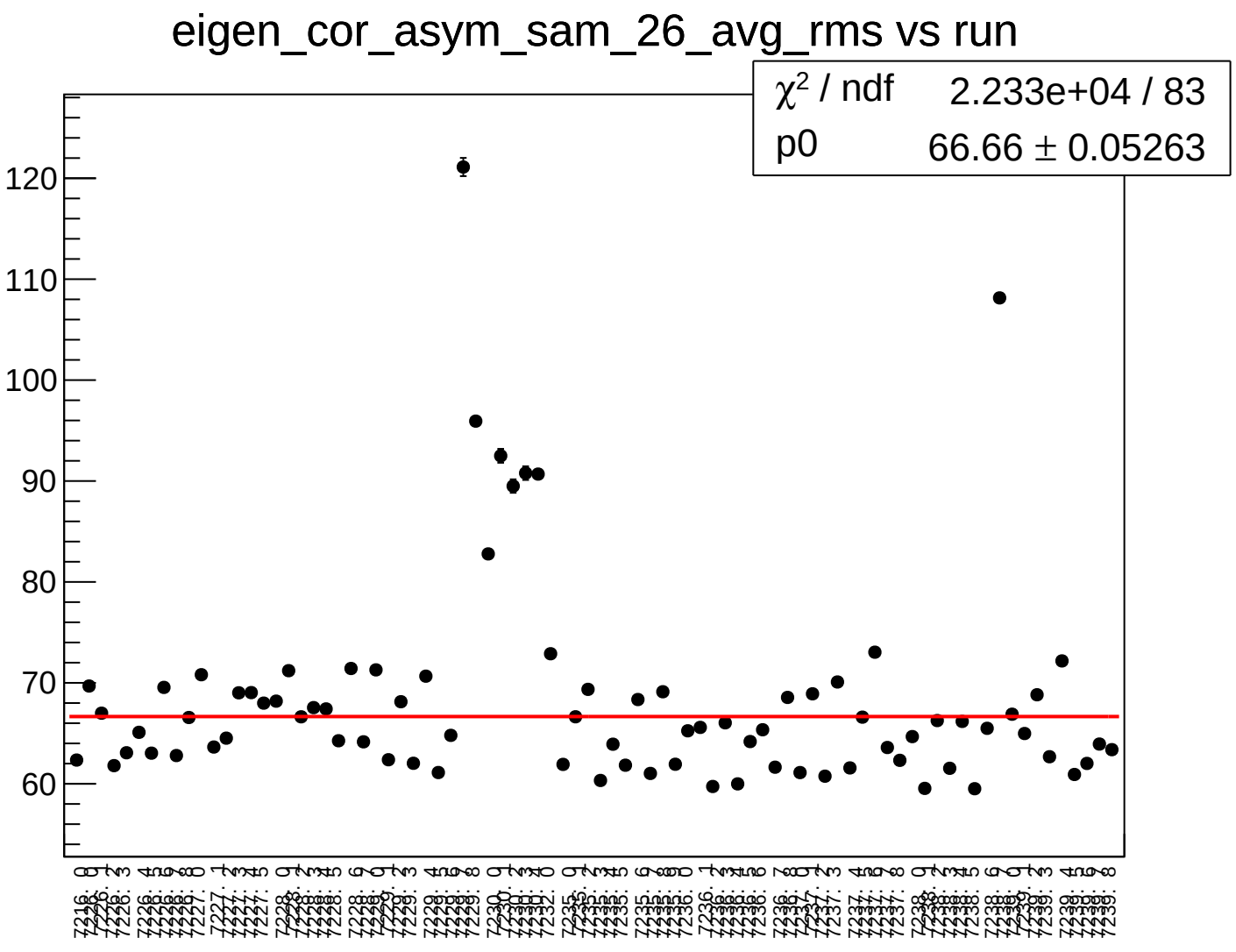

asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 72.89 / 83
p0 −955.4 ± 409.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −62.46
Std Dev 0
2
1
0
−1
−2
−3

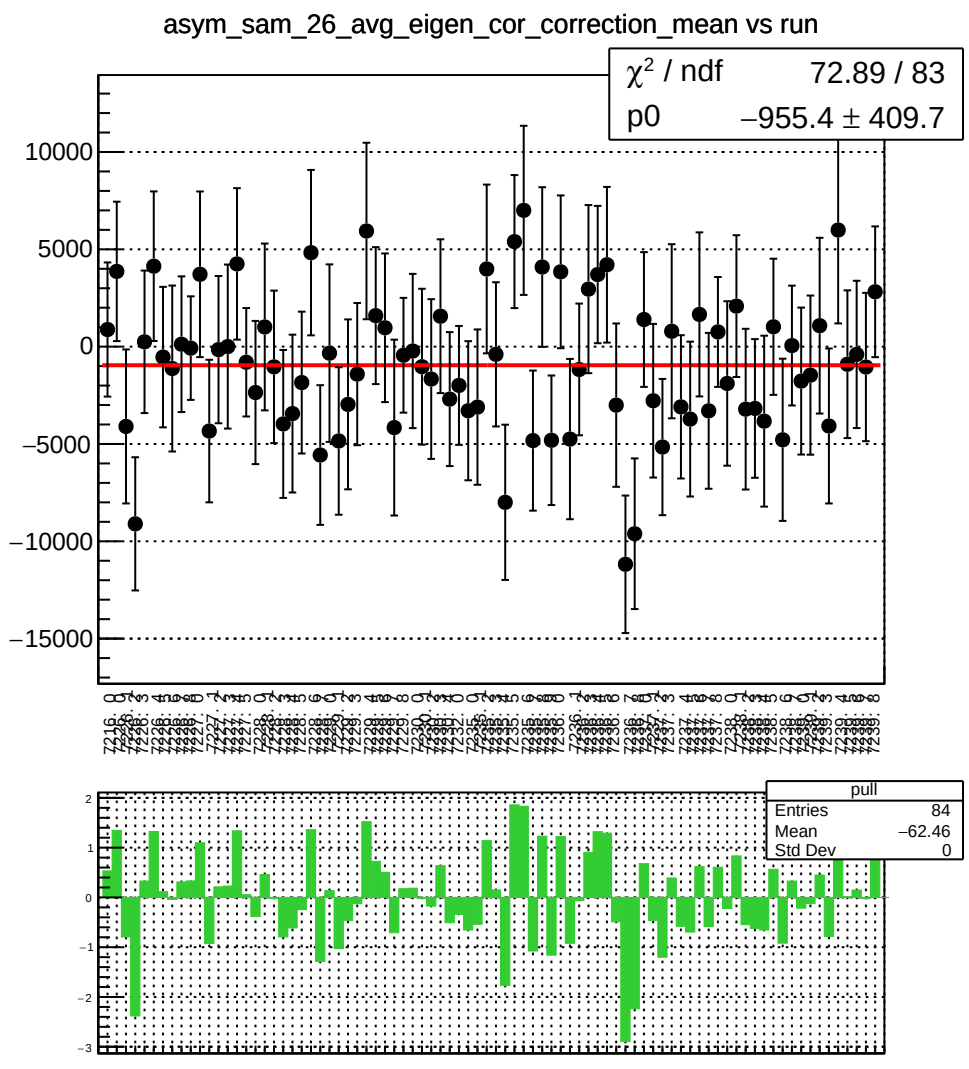

pull1D
Entries 84
Mean 0.00962
Std Dev 0.9315
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

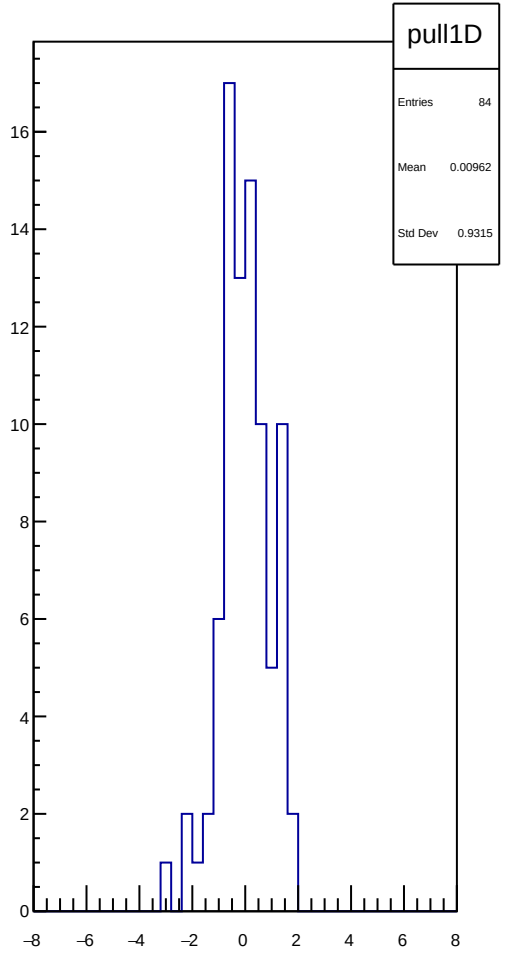

asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 9427 / 83
p0 368.4 ± 0.2897
460
440
420
400
380
360
340
320

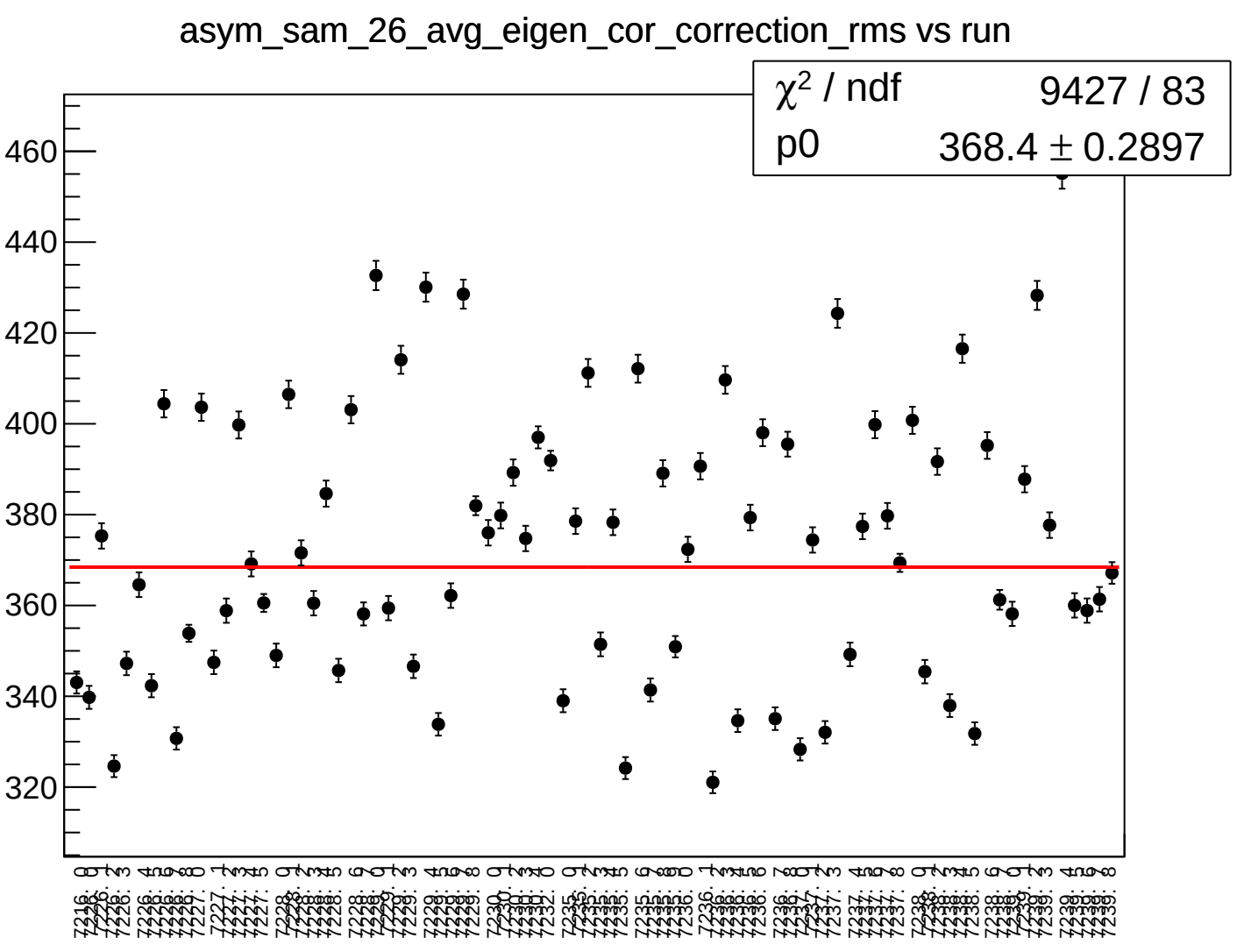

eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 79.9 / 83
p0 108 ± 74.43
3000
2000
1000
0
−1000
−2000
pull
Entries 84
Mean 1319
Std Dev 0
2
1
0
−1
−2

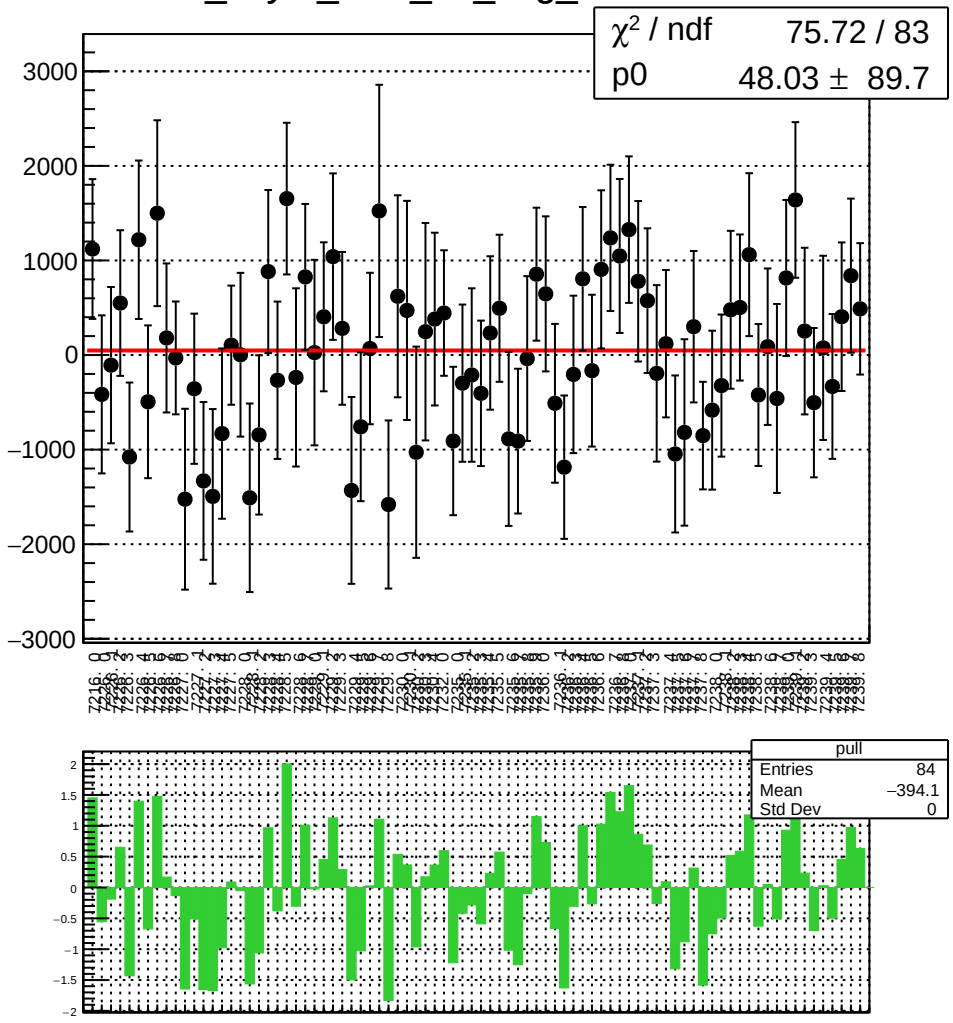

pull1D
Entries 84
Mean 0.004254
Std Dev 0.9753
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

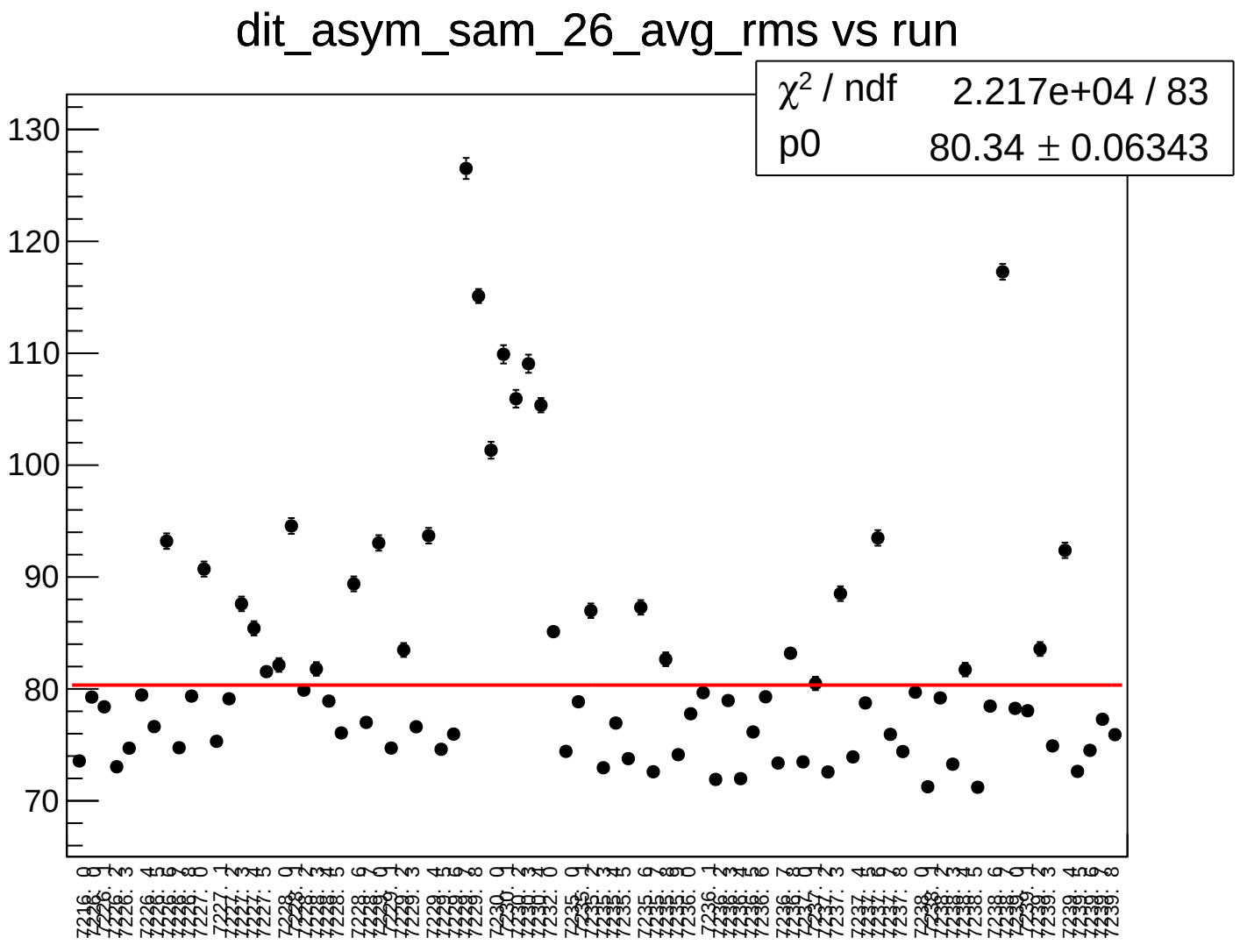

eigen_cor_asym_sam_26_avg_rms vs run
χ² / ndf 2.233e+04 / 83
p0 66.66 ± 0.05263
120
110
100
90
80
70
60

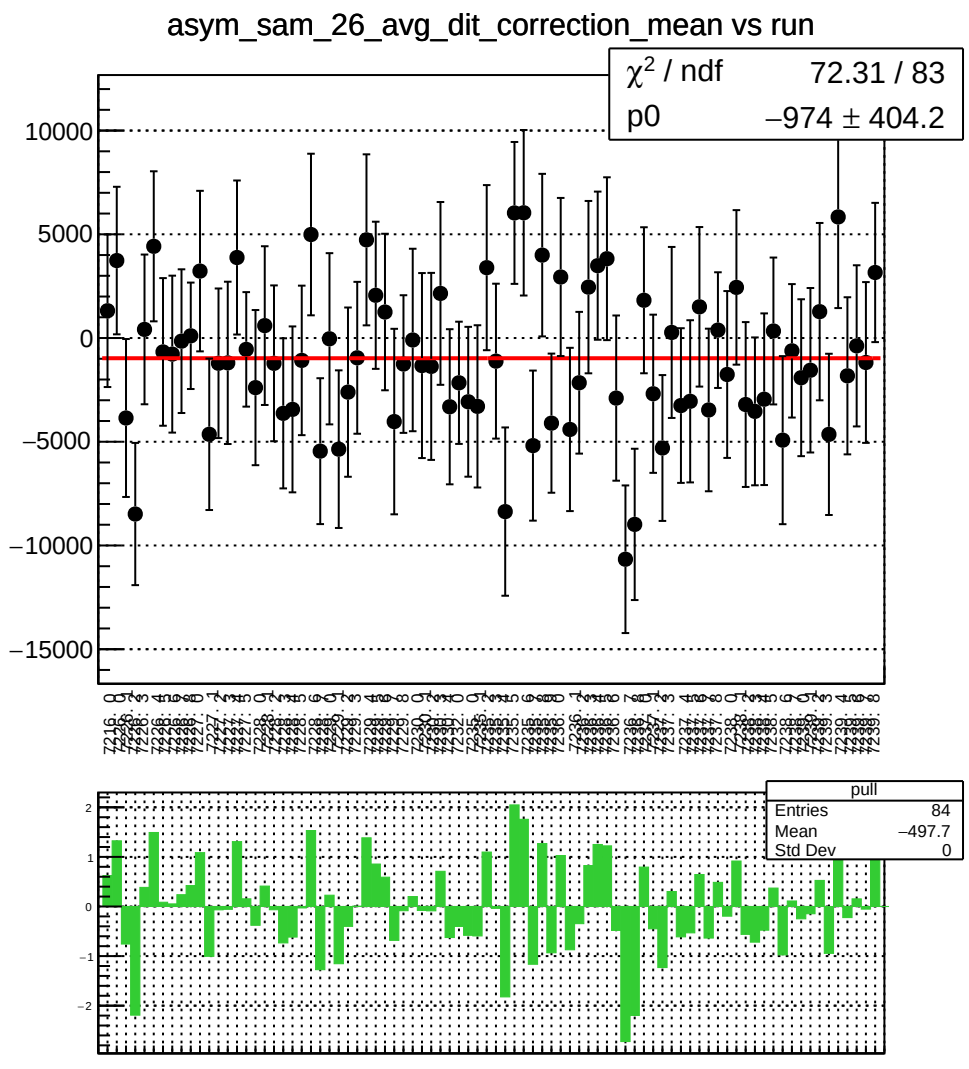

asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 72.89 / 83
p0 −955.4 ± 409.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −62.46
Std Dev 0
2
1
0
−1
−2
−3

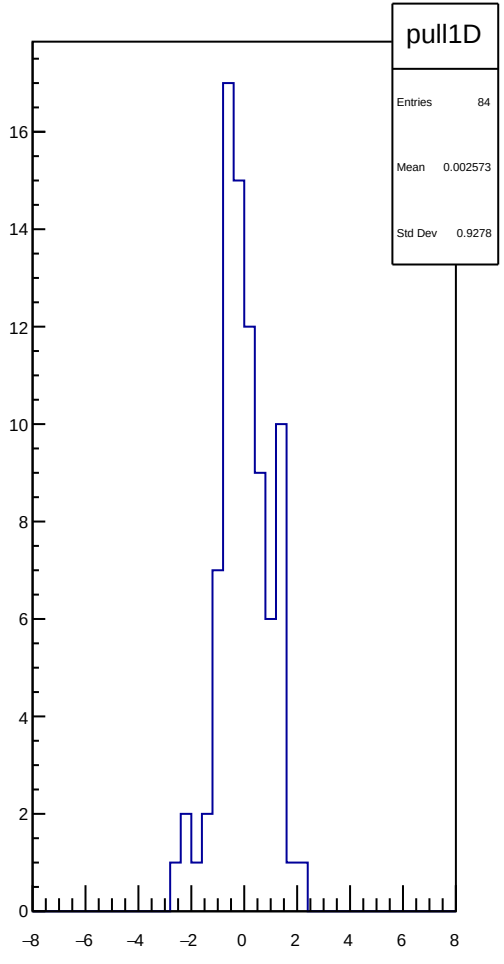

pull1D
Entries 84
Mean 0.00962
Std Dev 0.9315
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

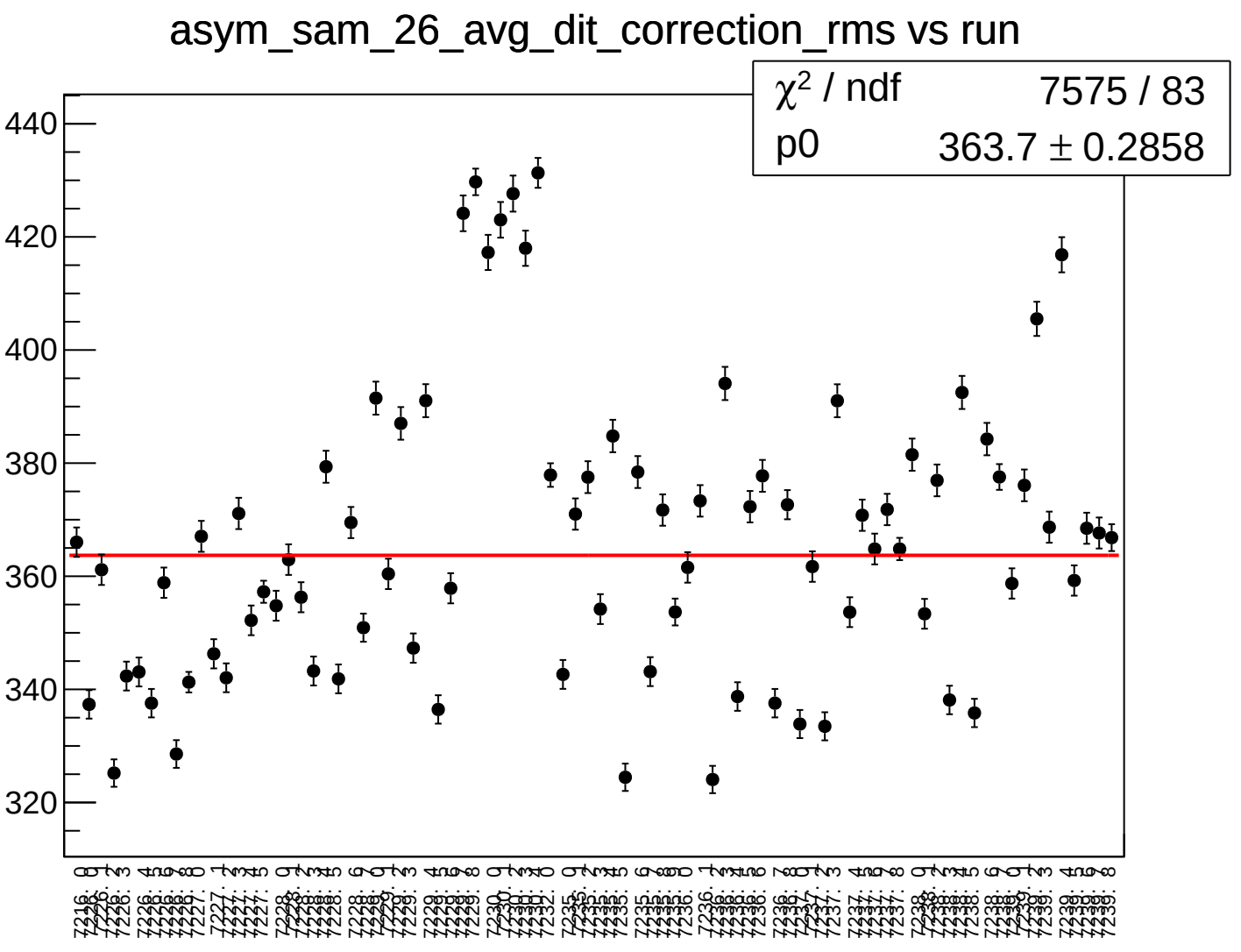

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 9427 / 83
p0 368.4 ± 0.2897
460
440
420
400
380
360
340
320

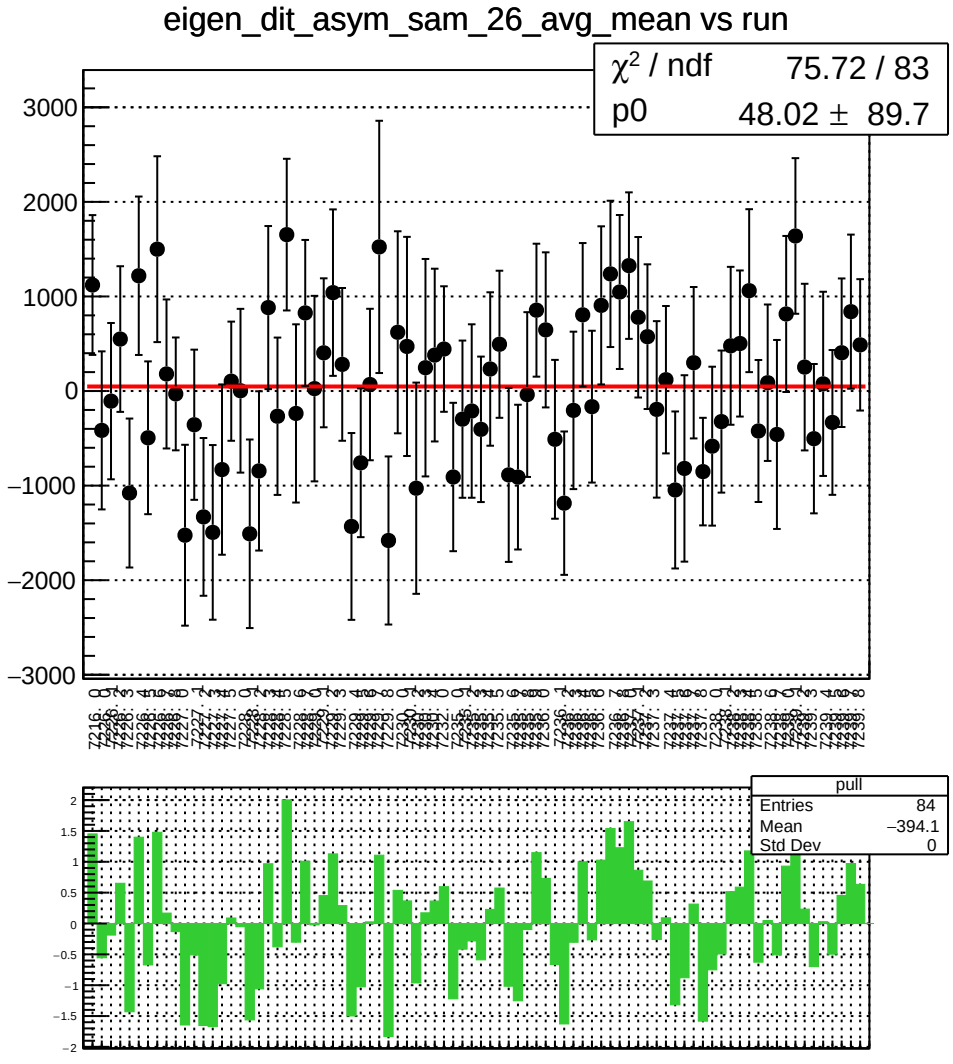

dit_asym_sam_26_avg_mean vs run
χ² / ndf 75.72 / 83
p0 48.03 ± 89.7
pull
Entries 84
Mean −394.1
Std Dev 0
pull1D
Entries 84
Mean −0.007464
Std Dev 0.9494

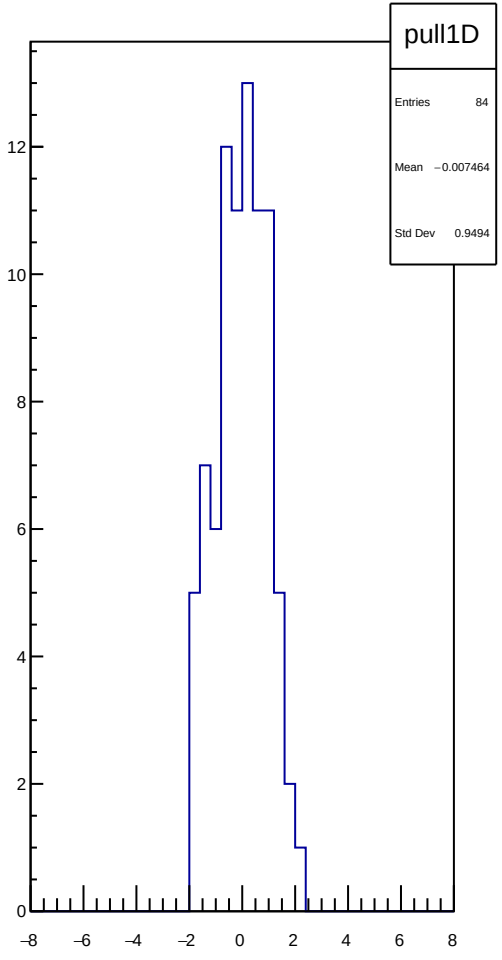

dit_asym_sam_26_avg_rms vs run
χ^2 / ndf 2.217e+04 / 83
p0 80.34 ± 0.06343
130
120
110
100
90
80
70

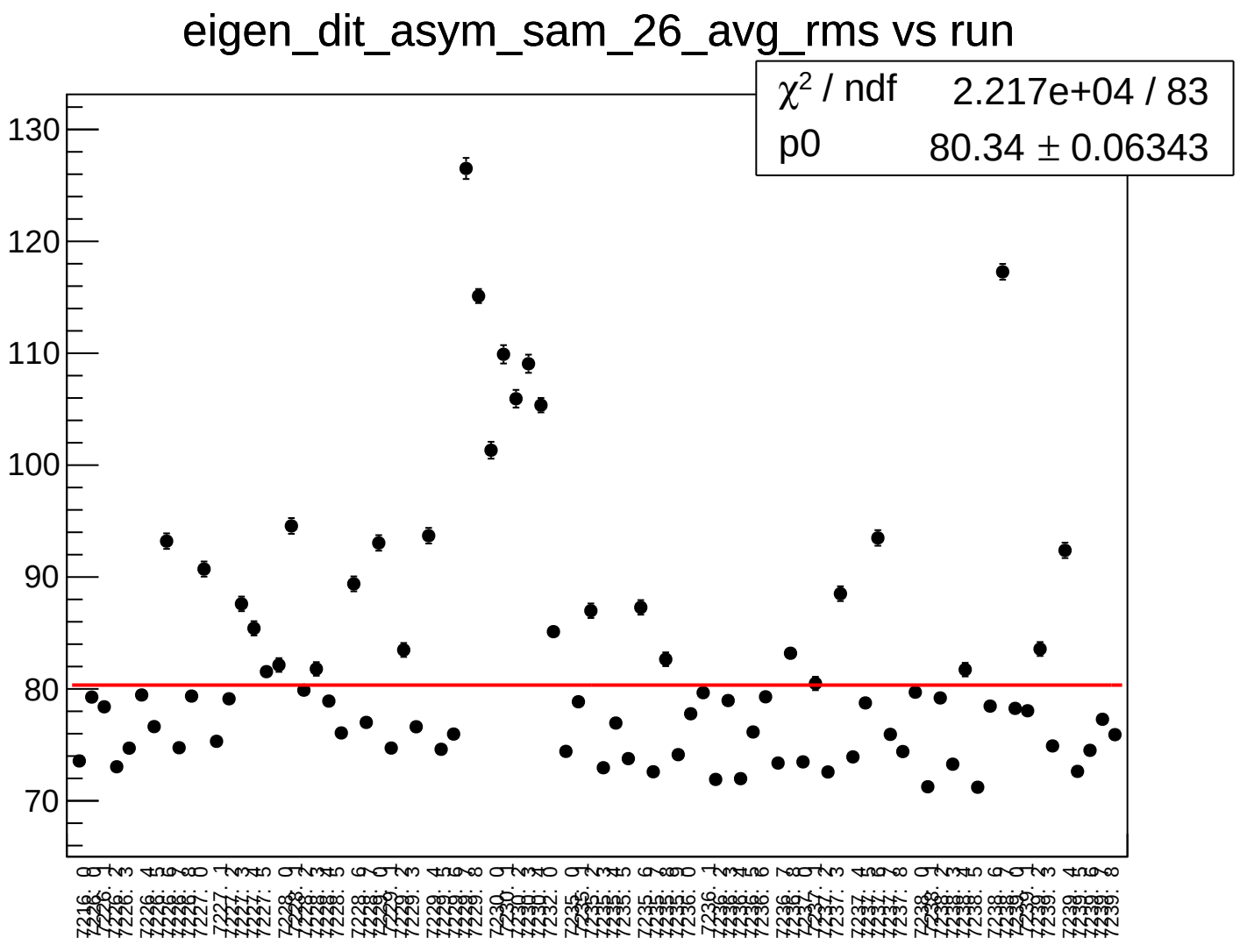

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 72.31 / 83
p0 −974 ± 404.2
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −497.7
Std Dev 0
2
1
0
−1
−2

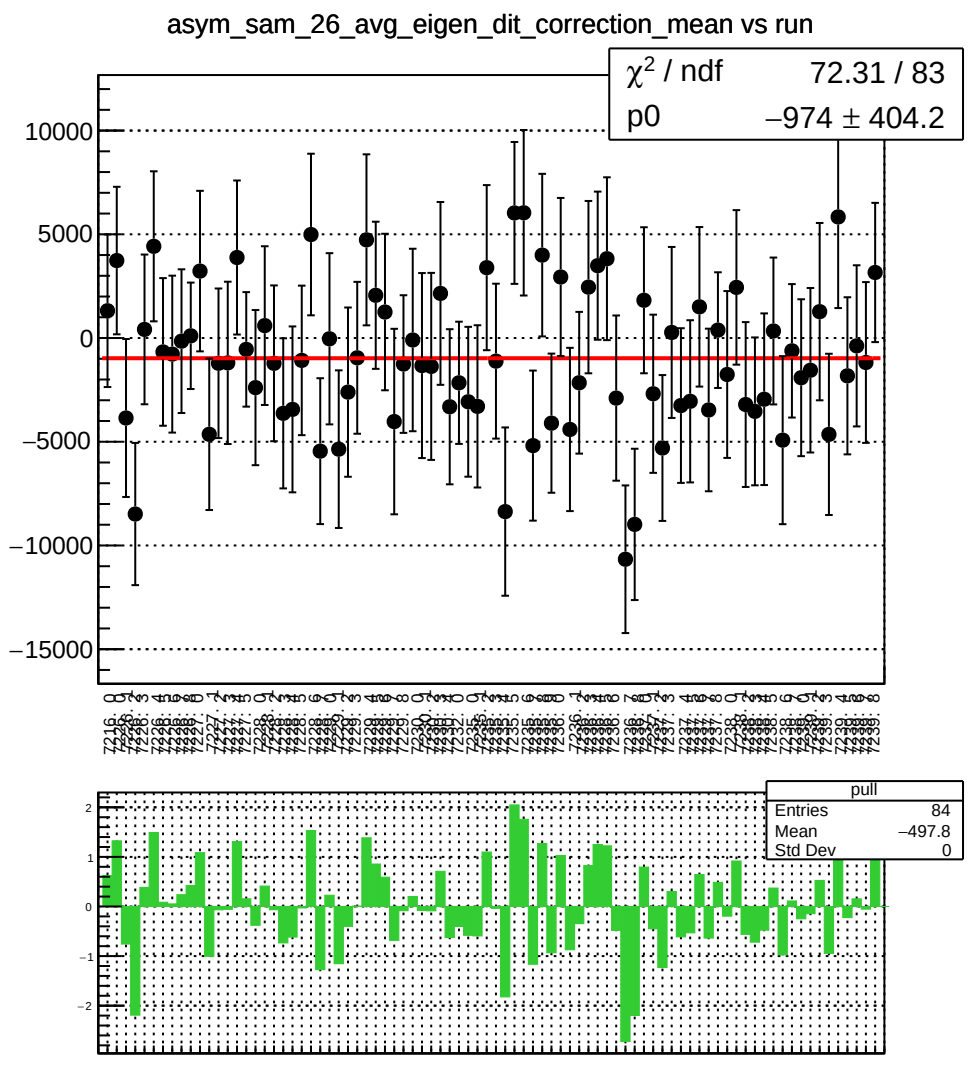

pull1D
Entries 84
Mean 0.002573
Std Dev 0.9278
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

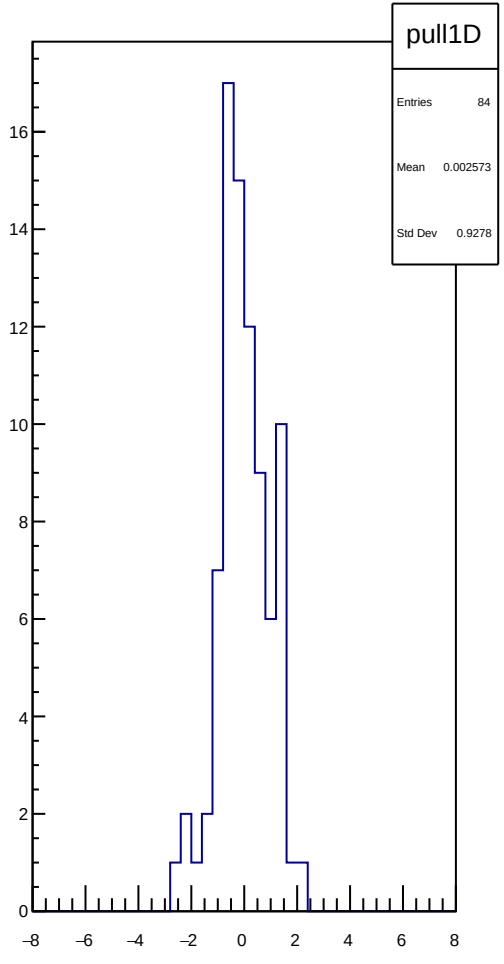

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 7575 / 83
p0 363.7 ± 0.2858
440
420
400
380
360
340
320

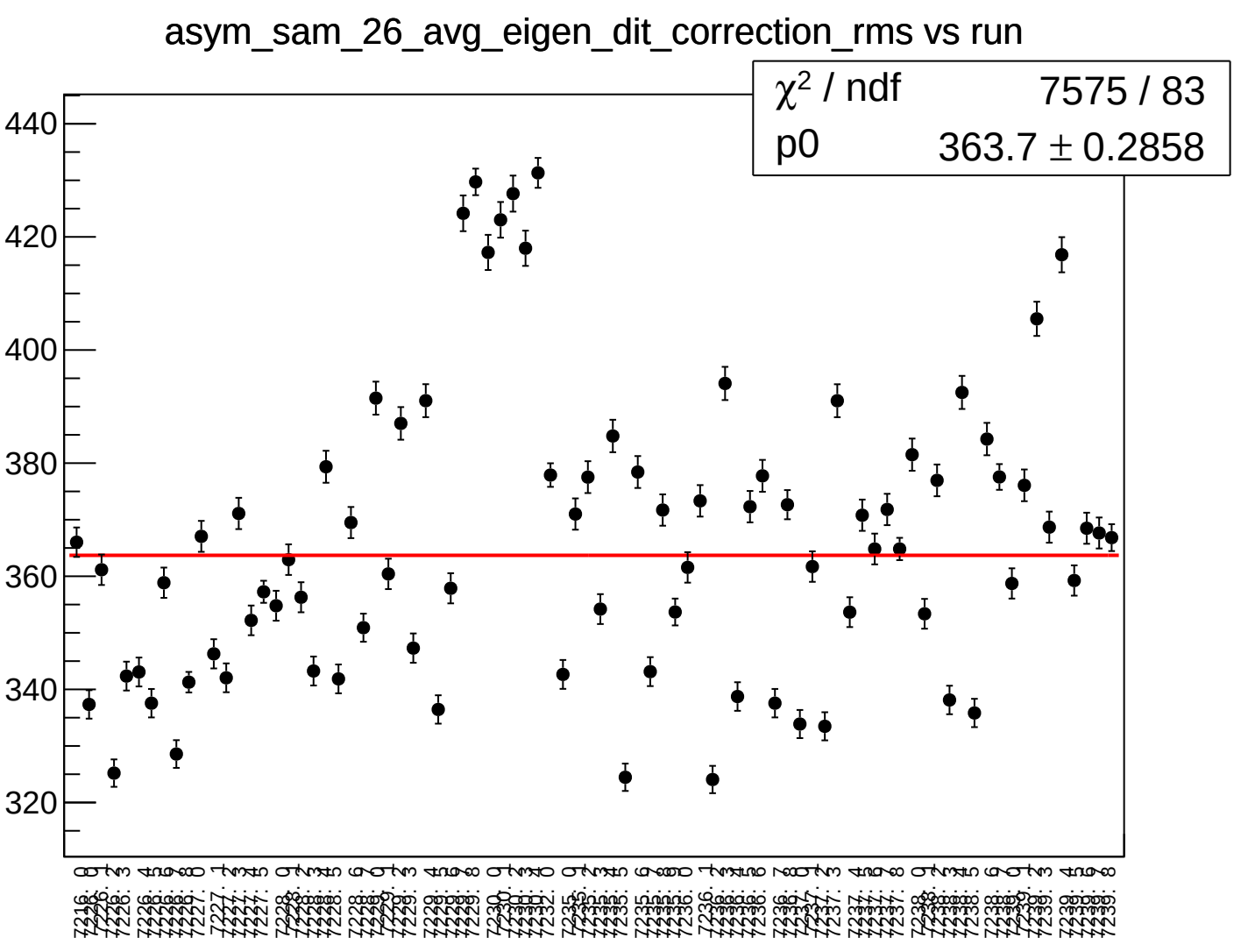

eigen_dit_asym_sam_26_avg_mean vs run
χ² / ndf 75.72 / 83
p0 48.02 ± 89.7
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean −394.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

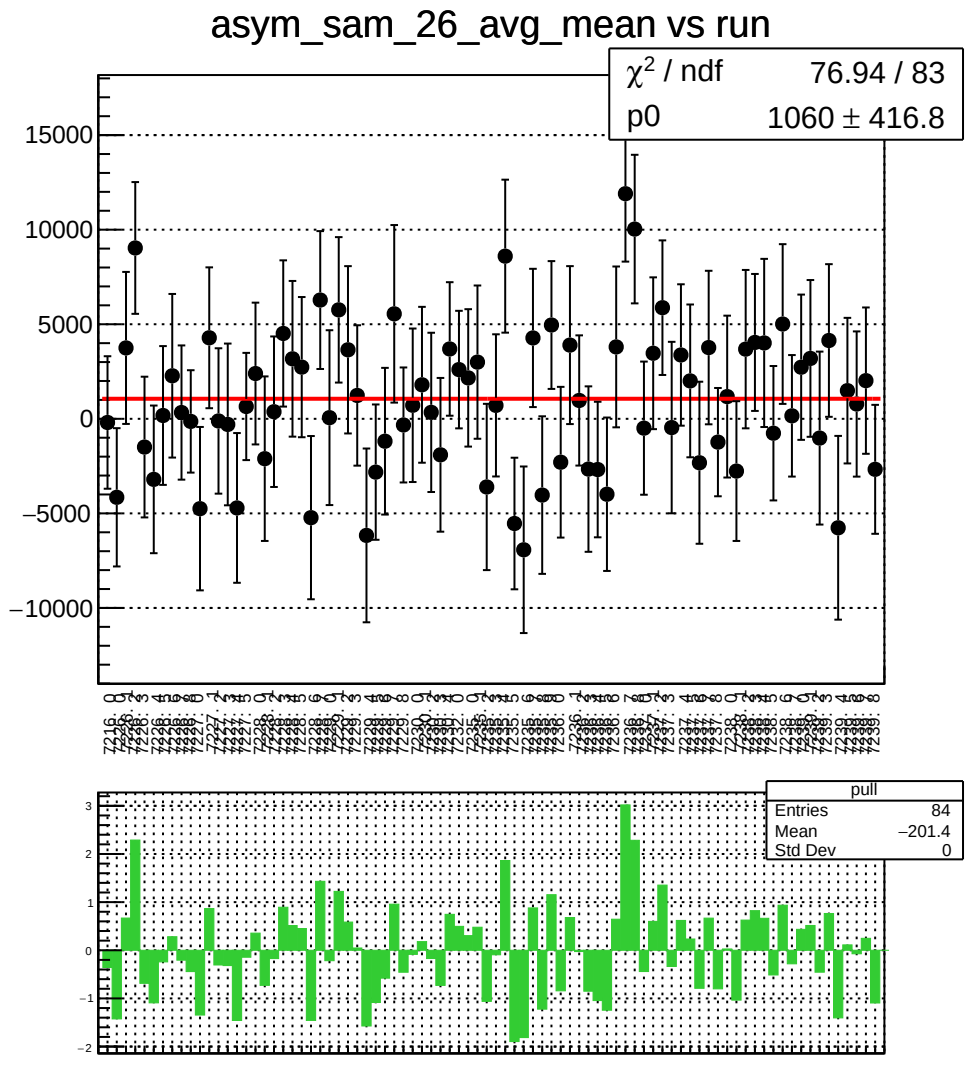

pull1D
Entries 84
Mean −0.007464
Std Dev 0.9494
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

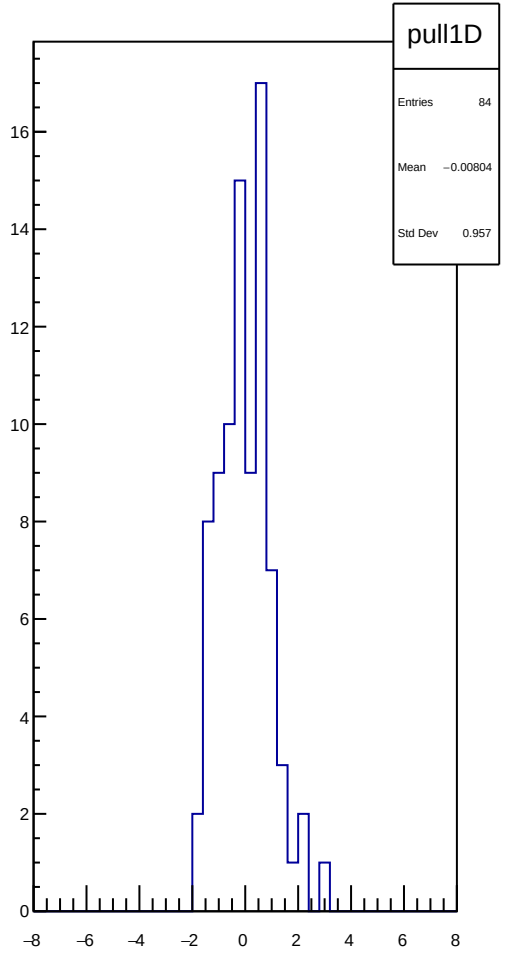

eigen_dit_asym_sam_26_avg_rms vs run
χ^2 / ndf 2.217e+04 / 83
p0 80.34 ± 0.06343
130
120
110
100
90
80
70

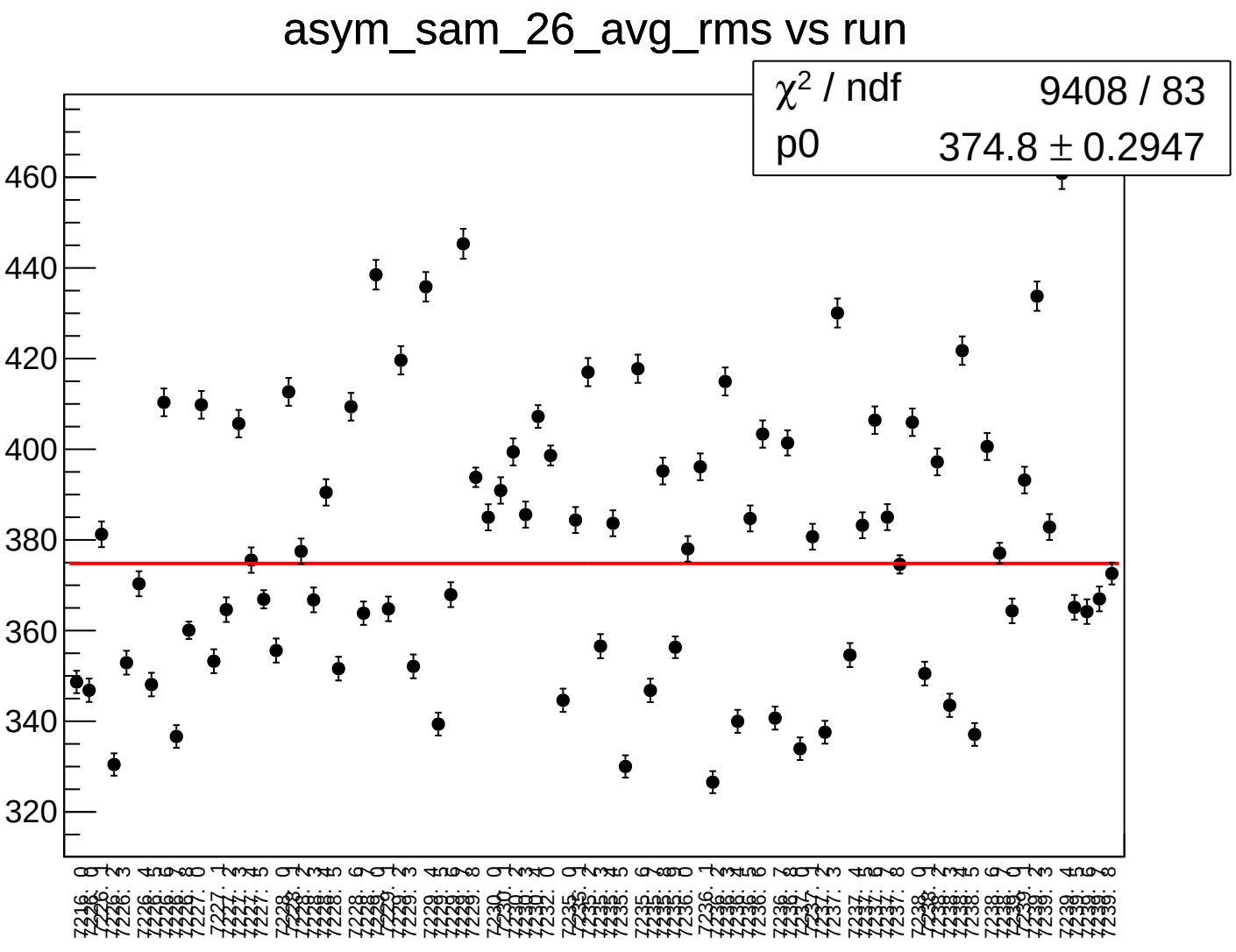

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 72.31 / 83
p0 −974 ± 404.2
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −497.8
Std Dev 0
2
1
0
−1
−2

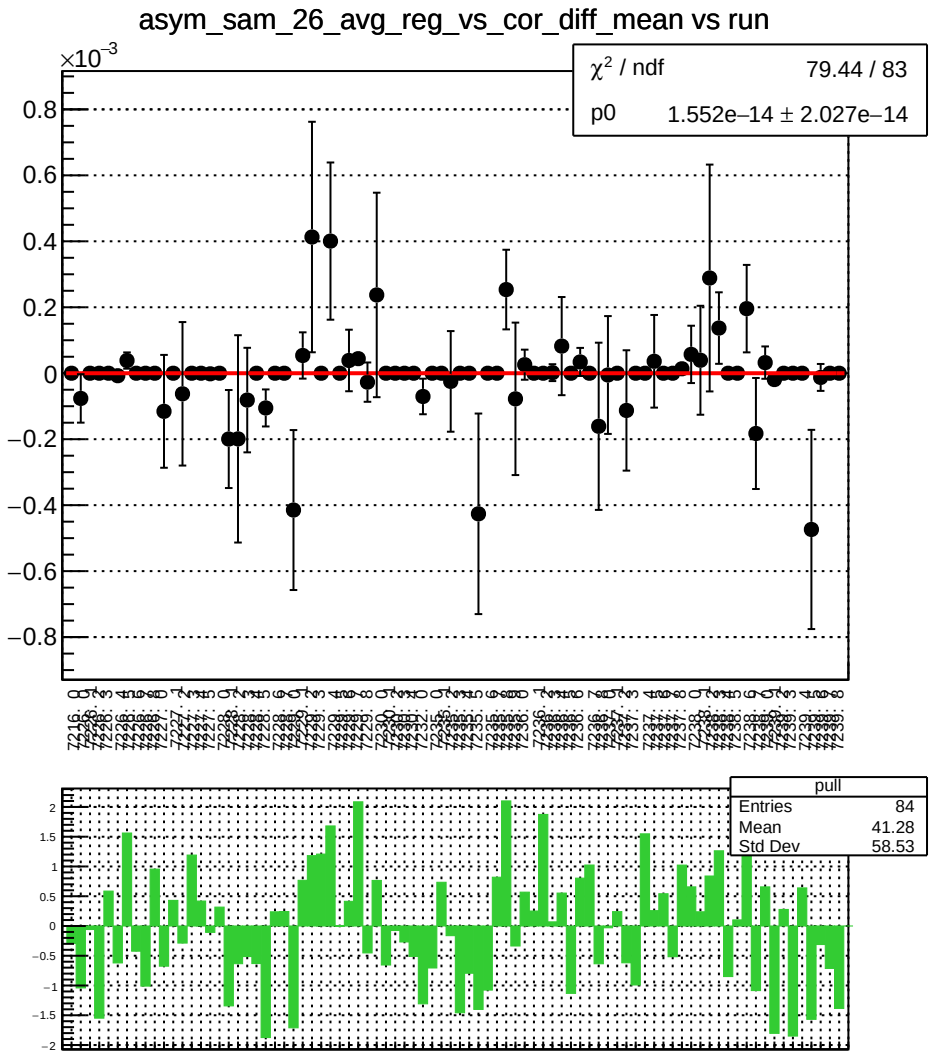

pull1D
Entries 84
Mean 0.002573
Std Dev 0.9278
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

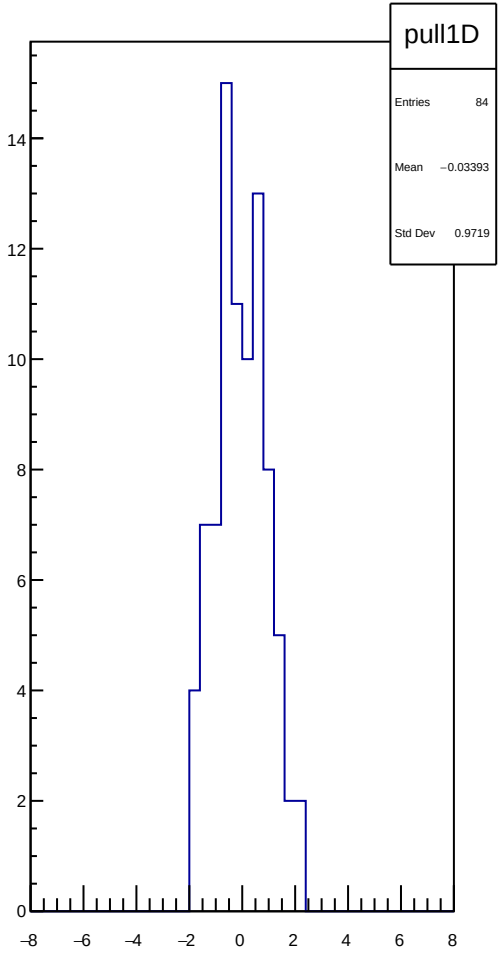

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 7575 / 83
p0 363.7 ± 0.2858
440
420
400
380
360
340
320

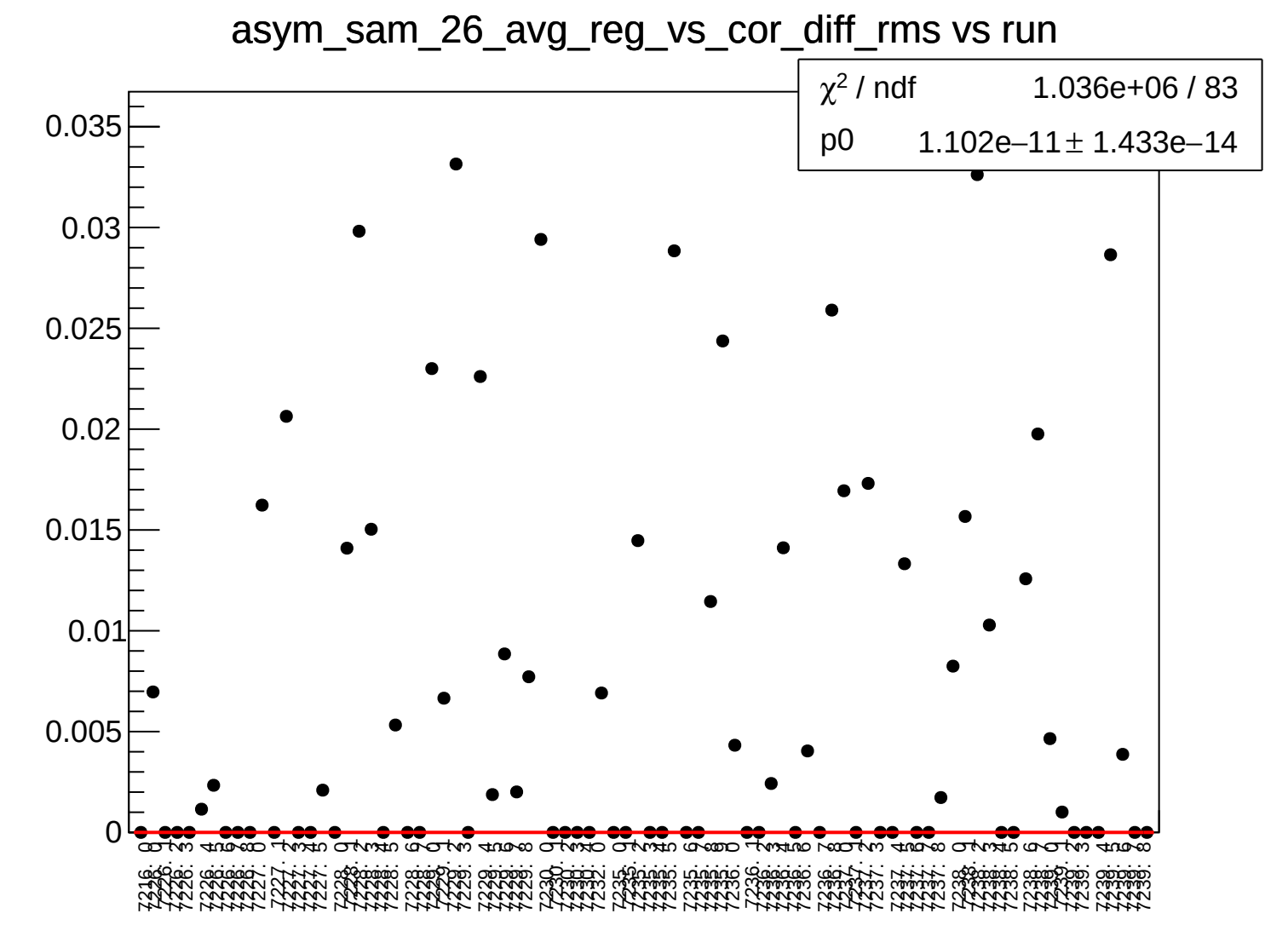

asym_sam_26_avg_mean vs run
χ² / ndf 76.94 / 83
p0 1060 ± 416.8
15000
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −201.4
Std Dev 0
3
2
1
0
−1
−2

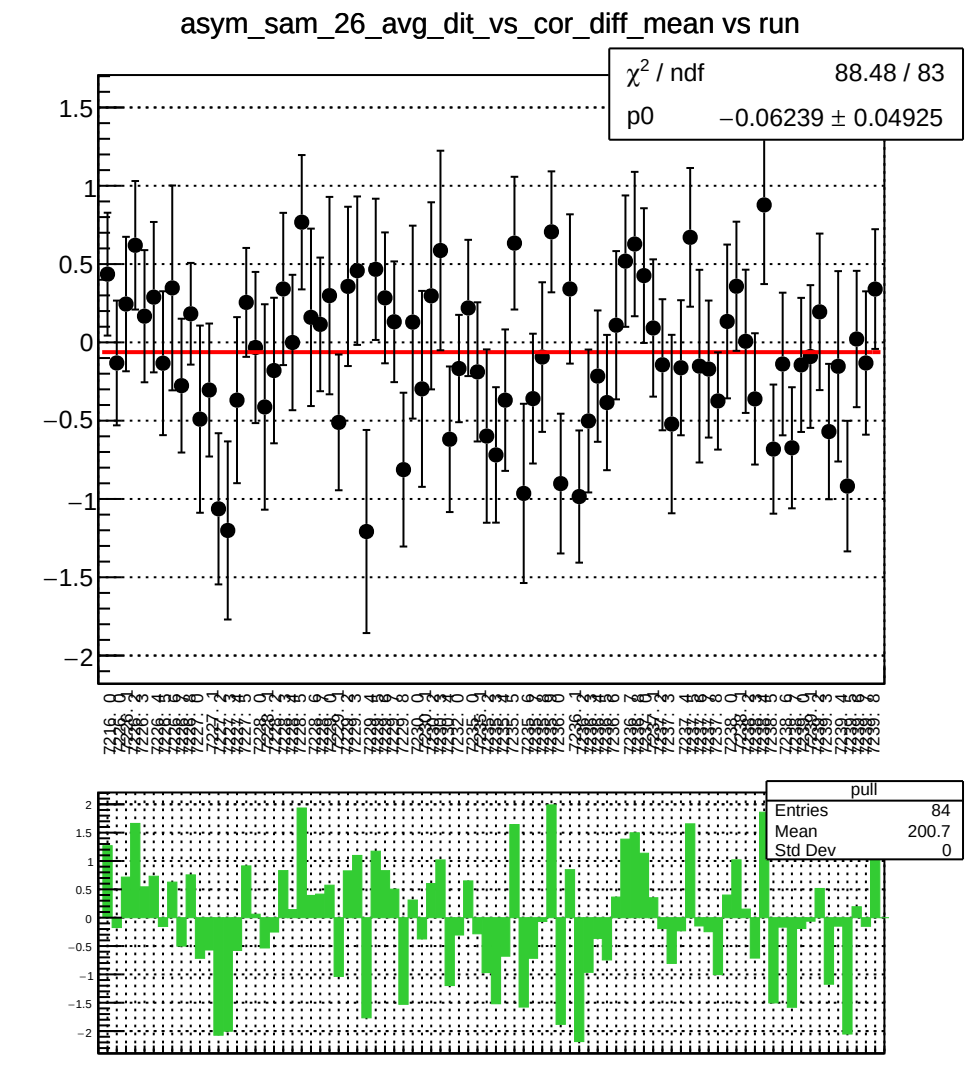

pull1D
Entries 84
Mean −0.00804
Std Dev 0.957
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

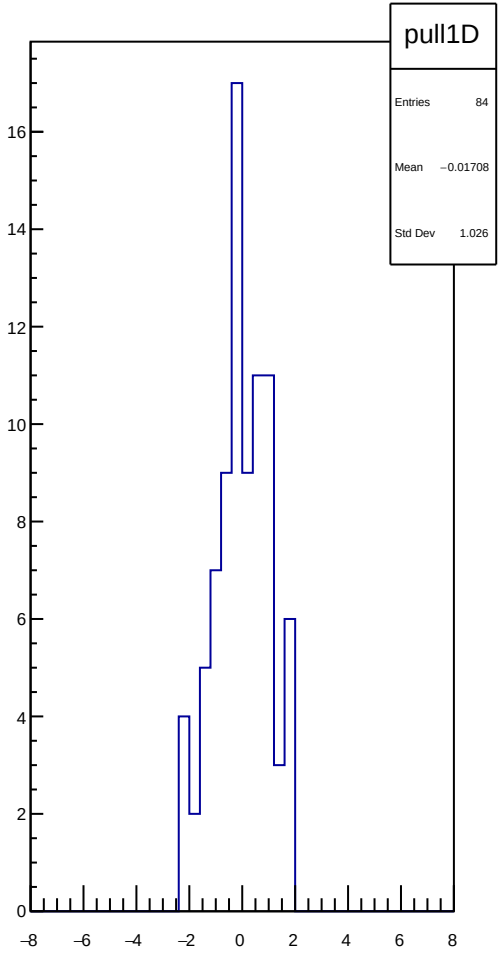

asym_sam_26_avg_rms vs run
χ^2 / ndf 9408 / 83
p0 374.8 ± 0.2947
460
440
420
400
380
360
340
320

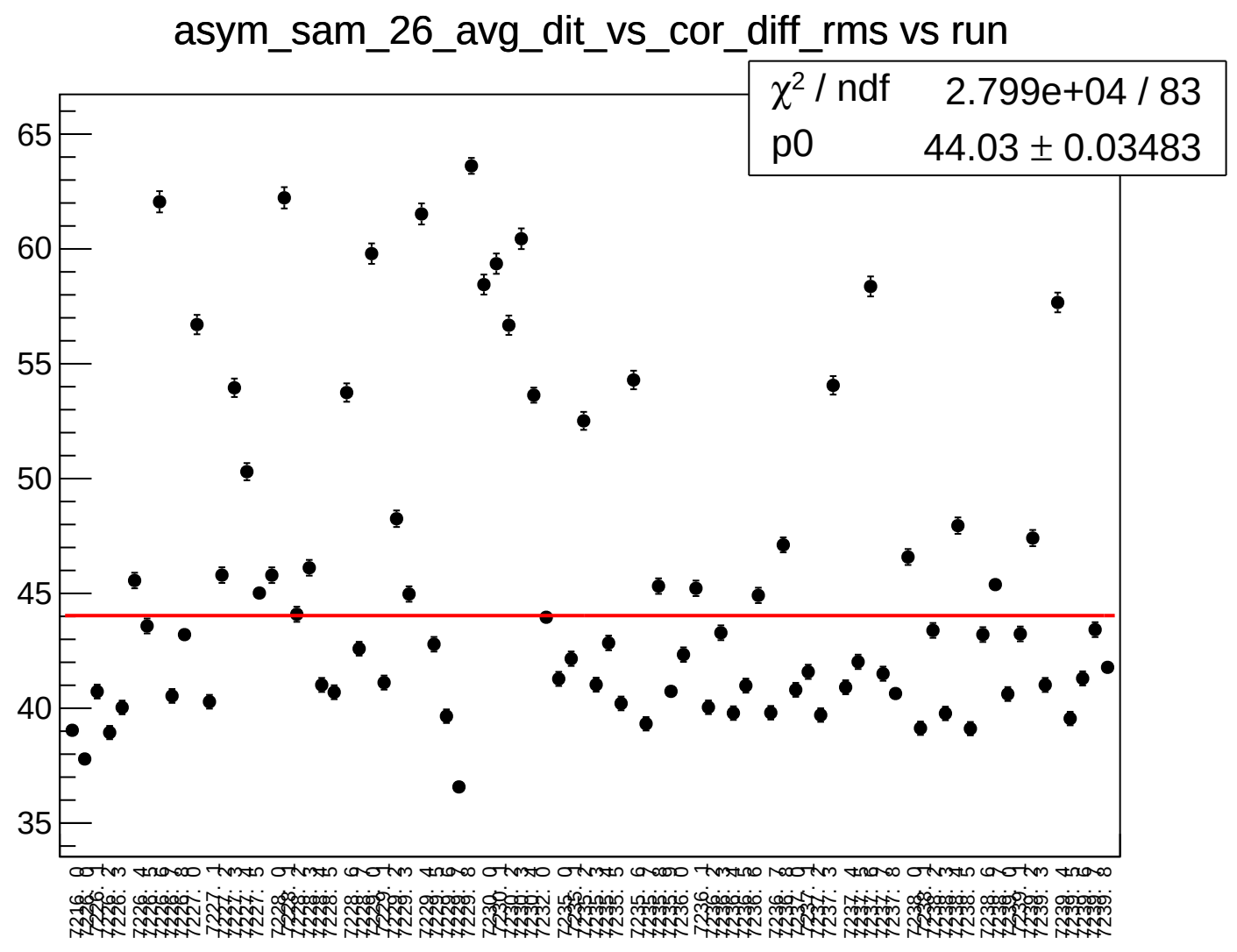

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 79.44 / 83
p0 1.552e−14 ± 2.027e−14
pull
Entries 84
Mean 41.28
Std Dev 58.53

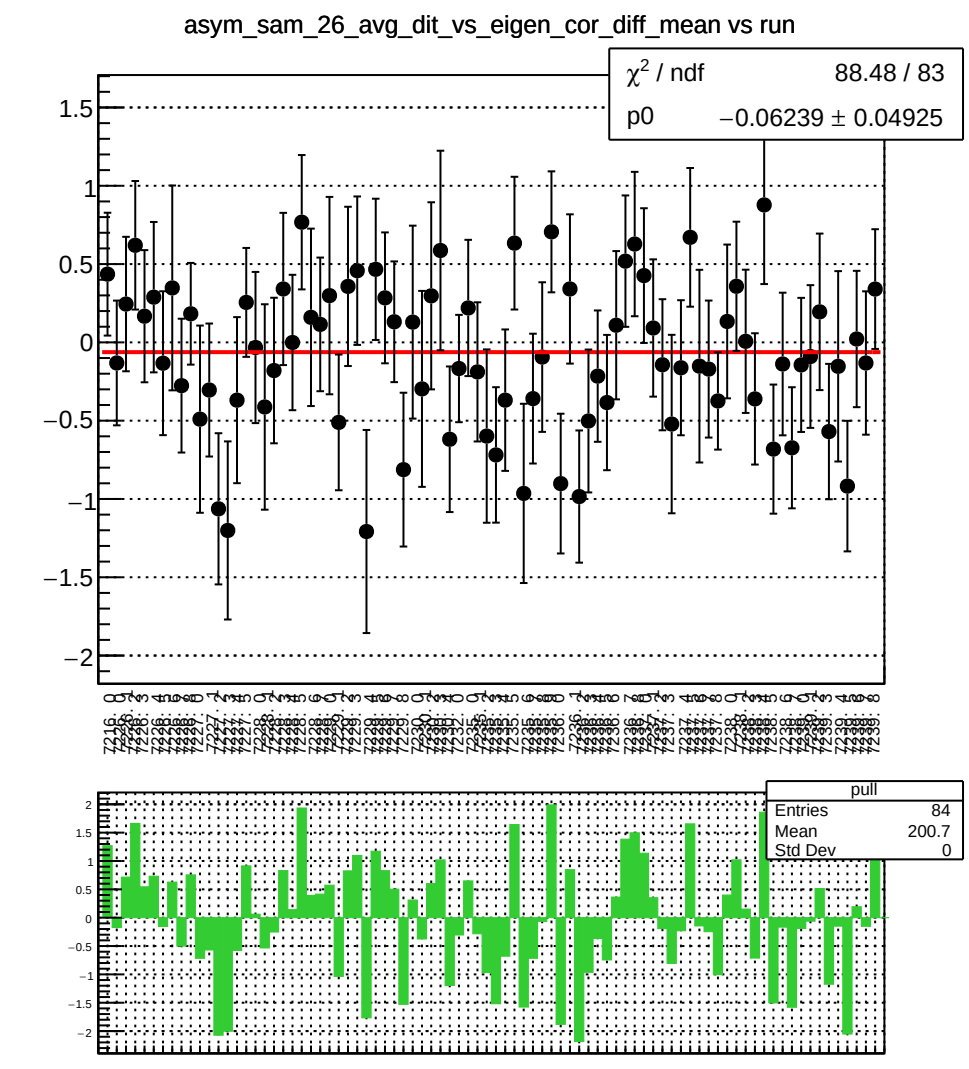

pull1D
Entries 84
Mean −0.03393
Std Dev 0.9719

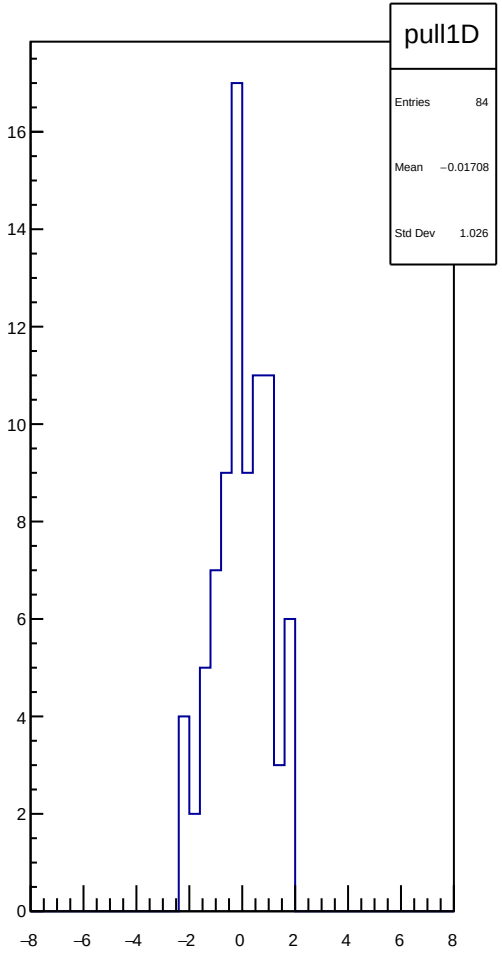

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.036e+06 / 83
p0 1.102e−11 ± 1.433e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

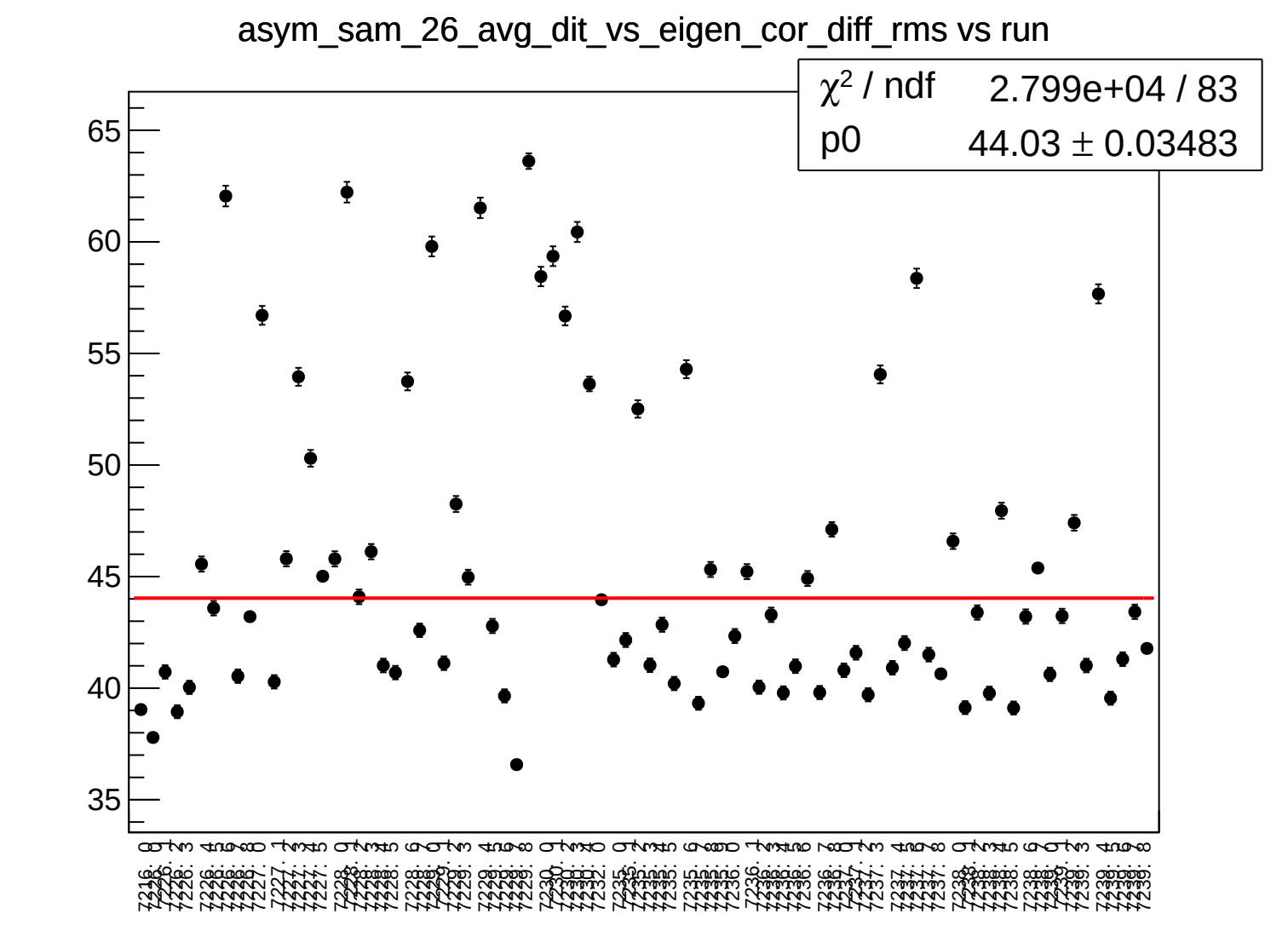

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 88.48 / 83
p0 −0.06239 ± 0.04925
pull
Entries 84
Mean 200.7
Std Dev 0

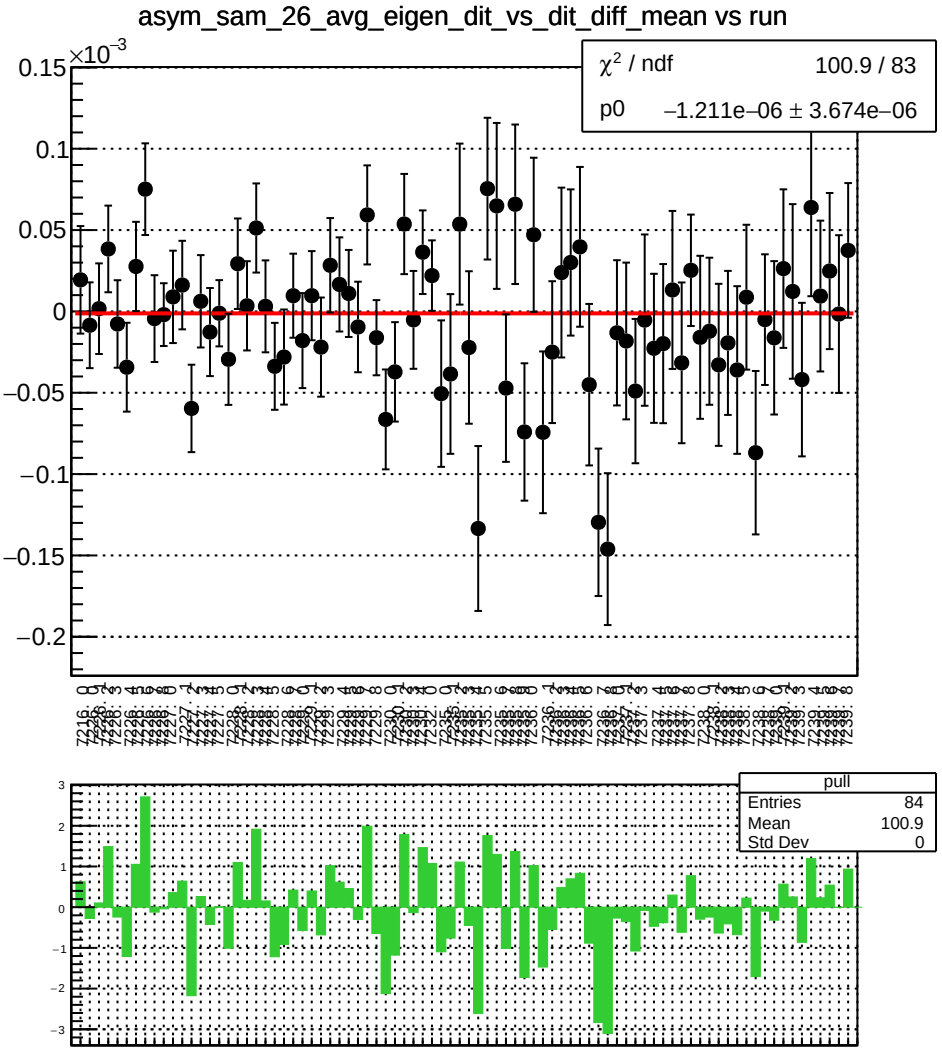

pull1D
Entries 84
Mean −0.01708
Std Dev 1.026

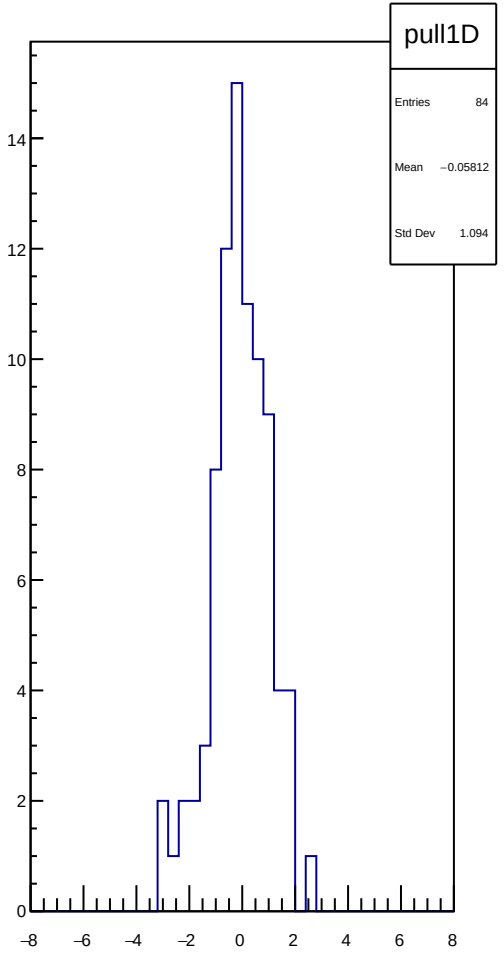

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.799e+04 / 83
p0 44.03 ± 0.03483
65
60
55
50
45
40
35

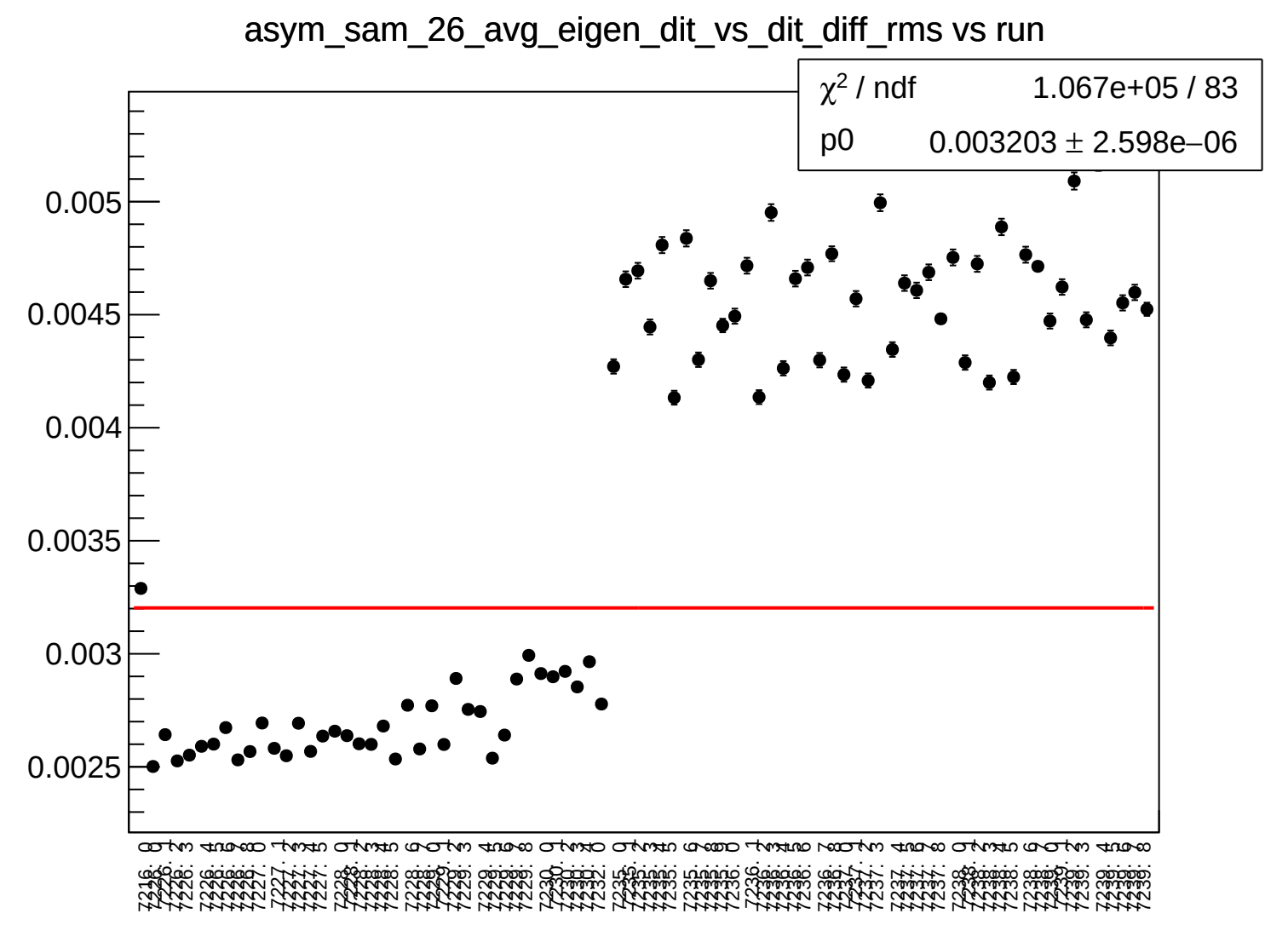

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.48 / 83
p0 −0.06239 ± 0.04925
pull
Entries 84
Mean 200.7
Std Dev 0

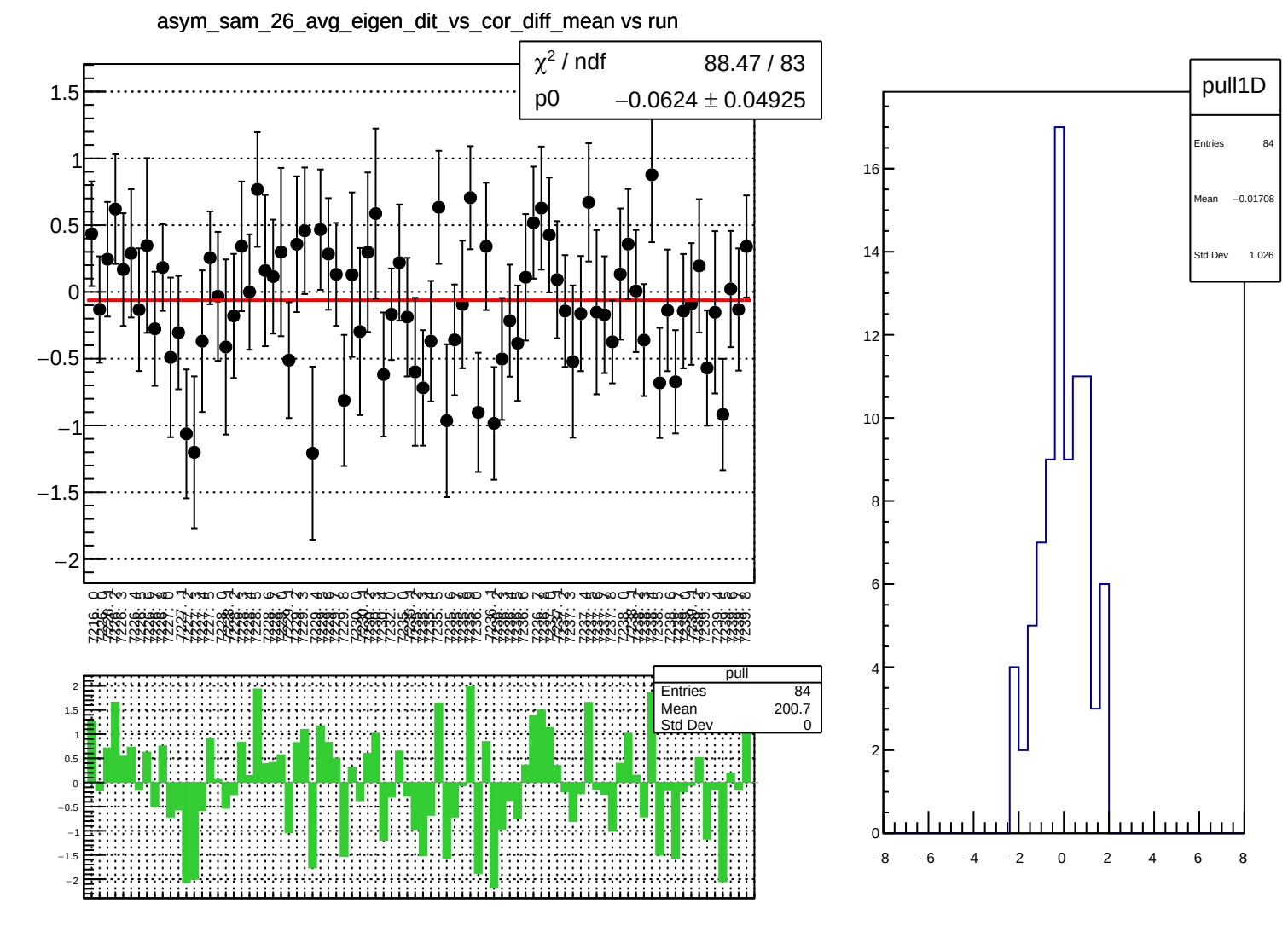

pull1D
Entries 84
Mean −0.01708
Std Dev 1.026

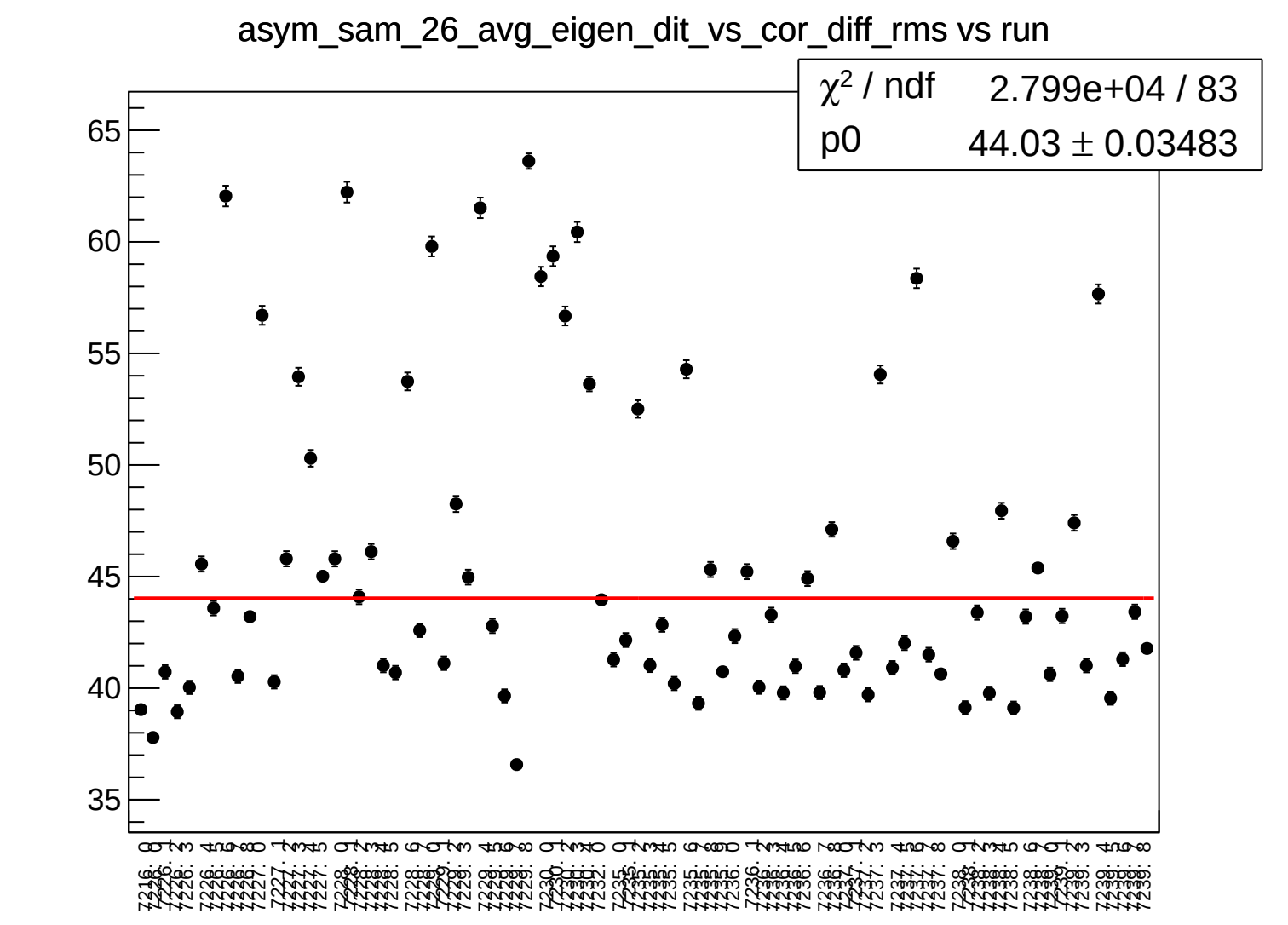

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.799e+04 / 83
p0 44.03 ± 0.03483
65
60
55
50
45
40
35

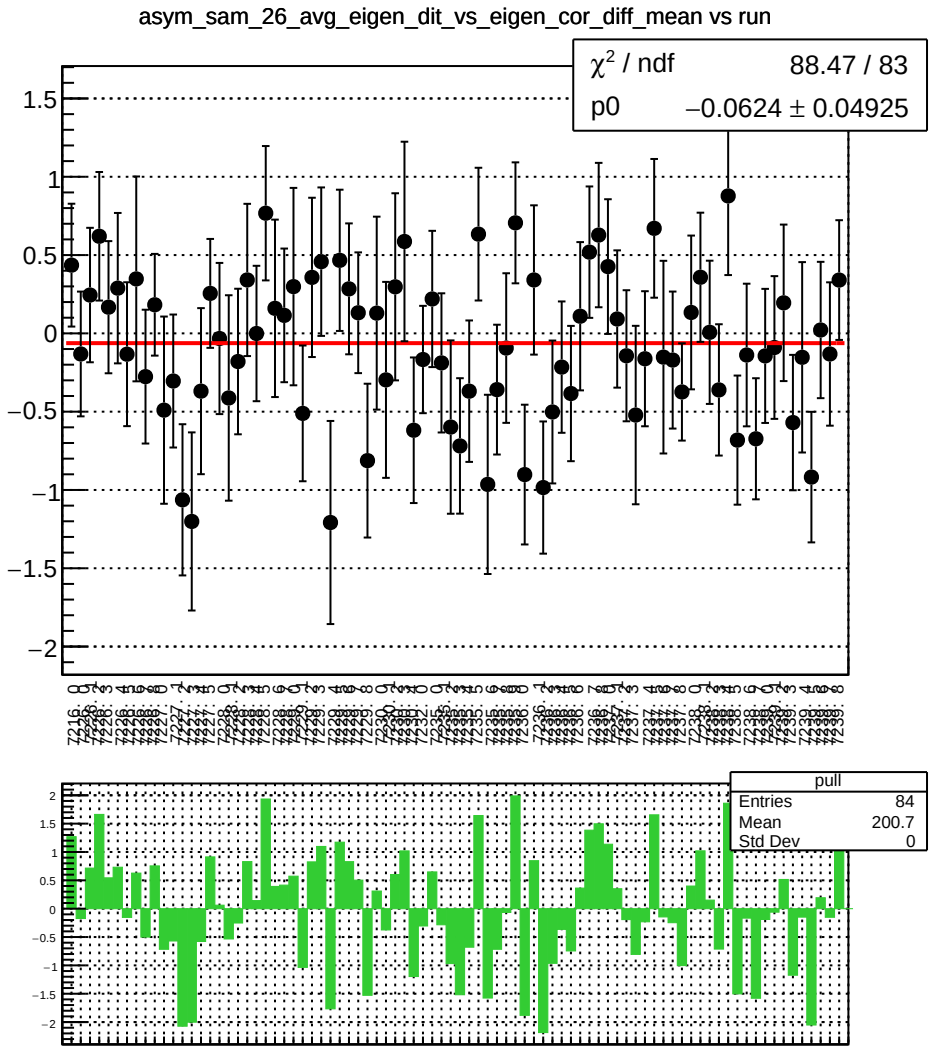

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 100.9 / 83
p0 −1.211e−06 ± 3.674e−06
×10⁻³
pull
Entries 84
Mean 100.9
Std Dev 0

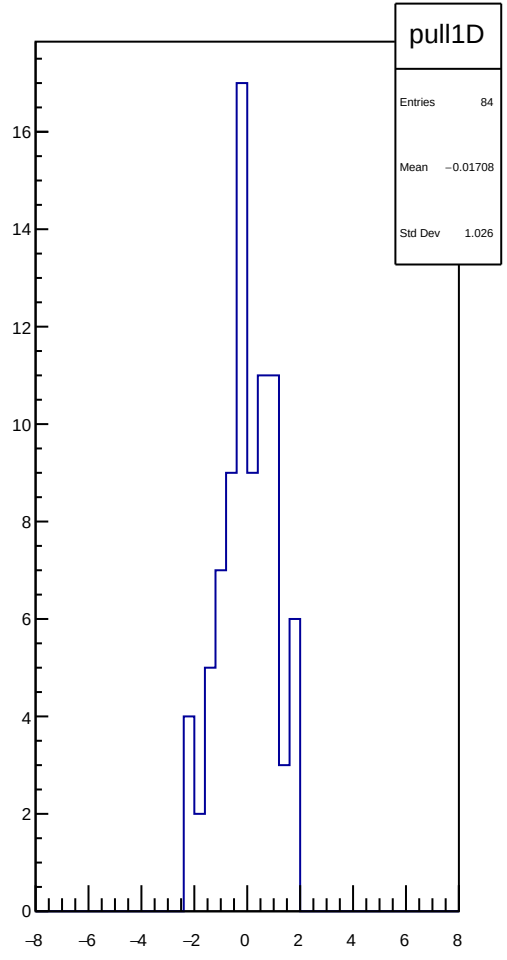

pull1D
Entries 84
Mean −0.05812
Std Dev 1.094

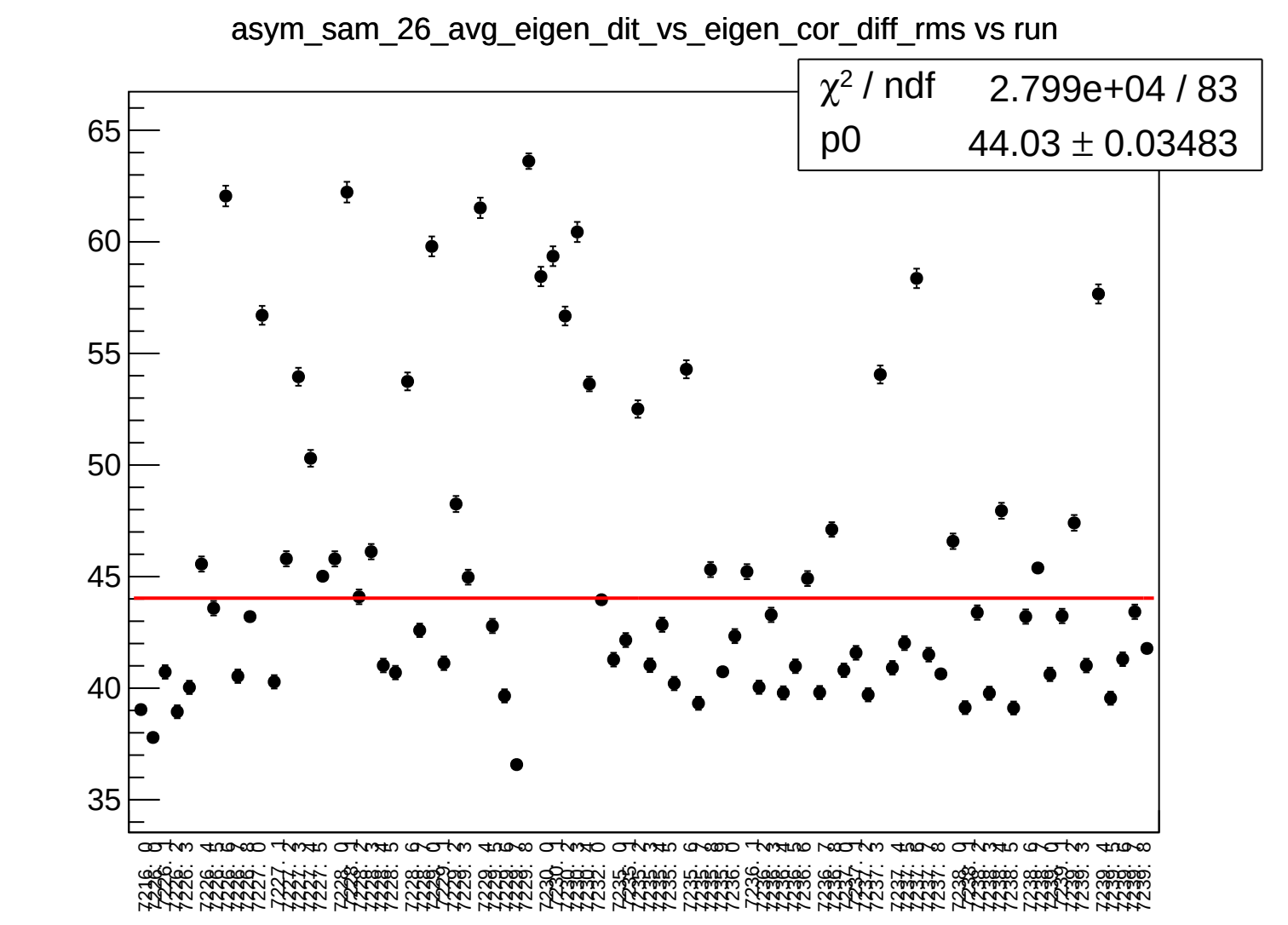

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.067e+05 / 83
p0 0.003203 ± 2.598e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025

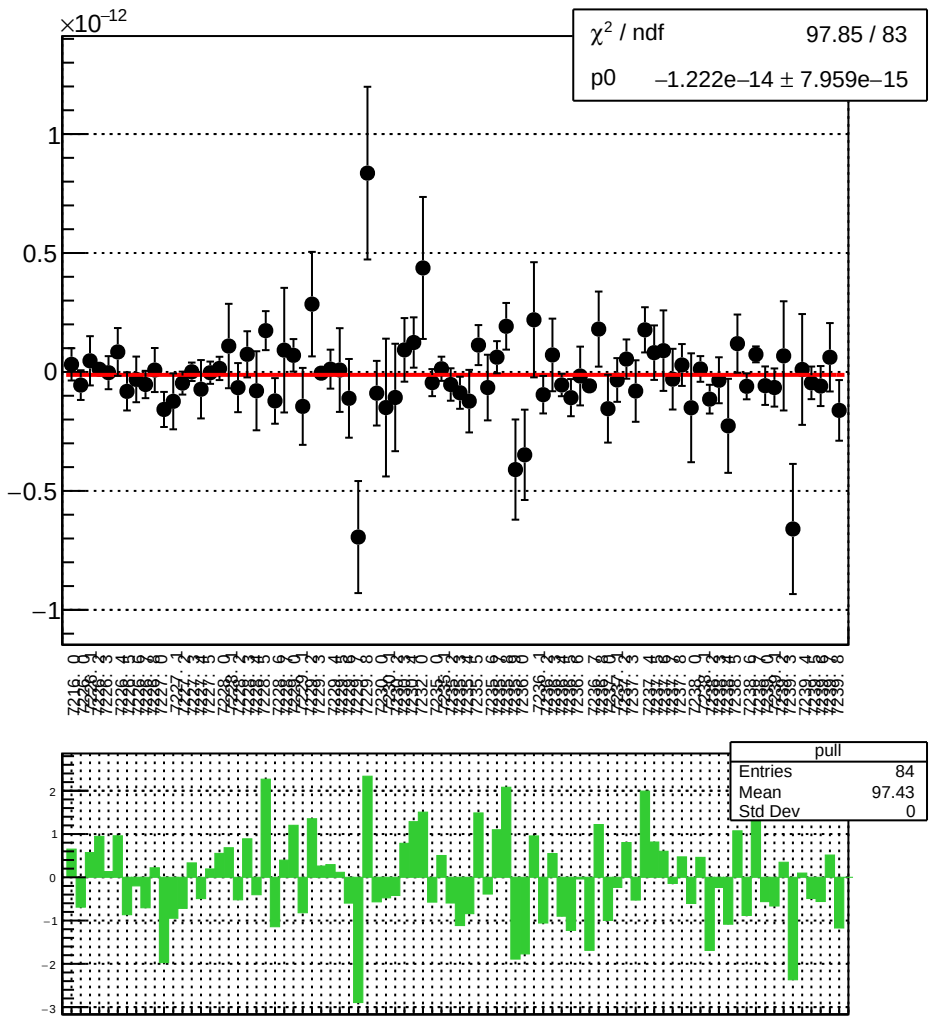

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.47 / 83
p0 −0.0624 ± 0.04925
pull
Entries 84
Mean 200.7
Std Dev 0
pull1D
Entries 84
Mean −0.01708
Std Dev 1.026

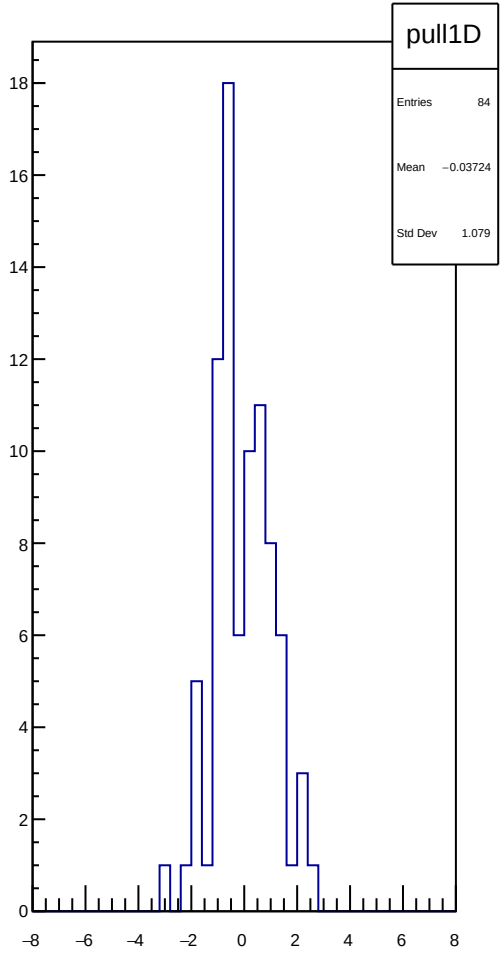

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.799e+04 / 83
p0 44.03 ± 0.03483
65
60
55
50
45
40
35

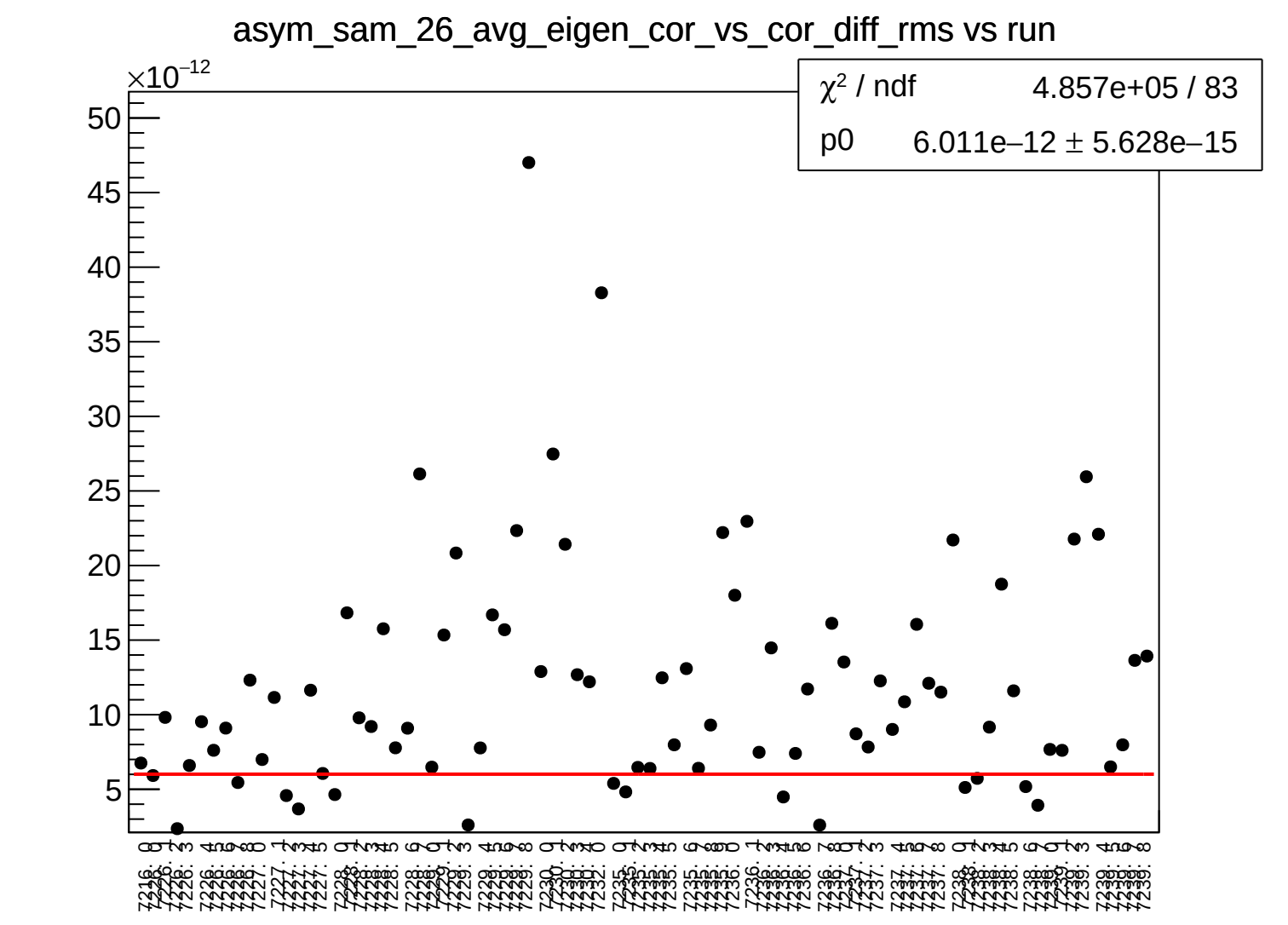

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.47 / 83
p0 −0.0624 ± 0.04925
pull
Entries 84
Mean 200.7
Std Dev 0

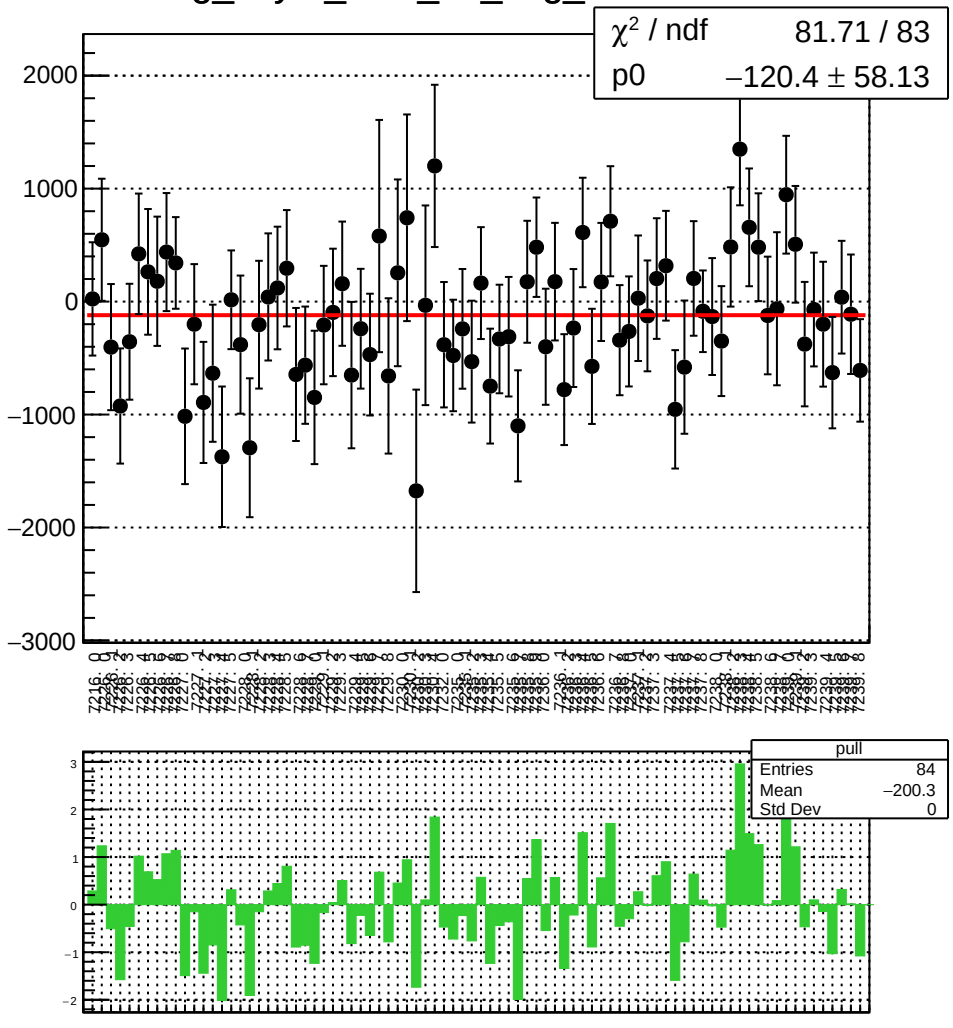

pull1D
Entries 84
Mean −0.01708
Std Dev 1.026

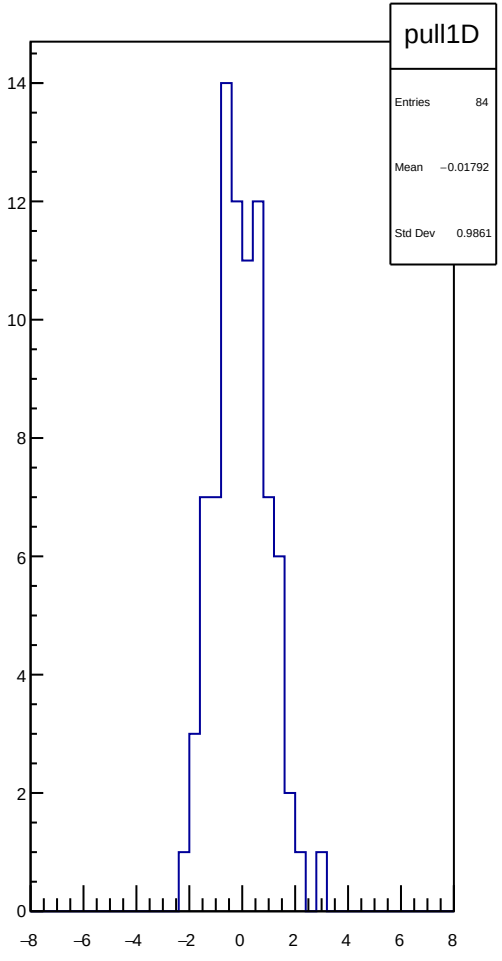

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.799e+04 / 83
p0 44.03 ± 0.03483
65
60
55
50
45
40
35

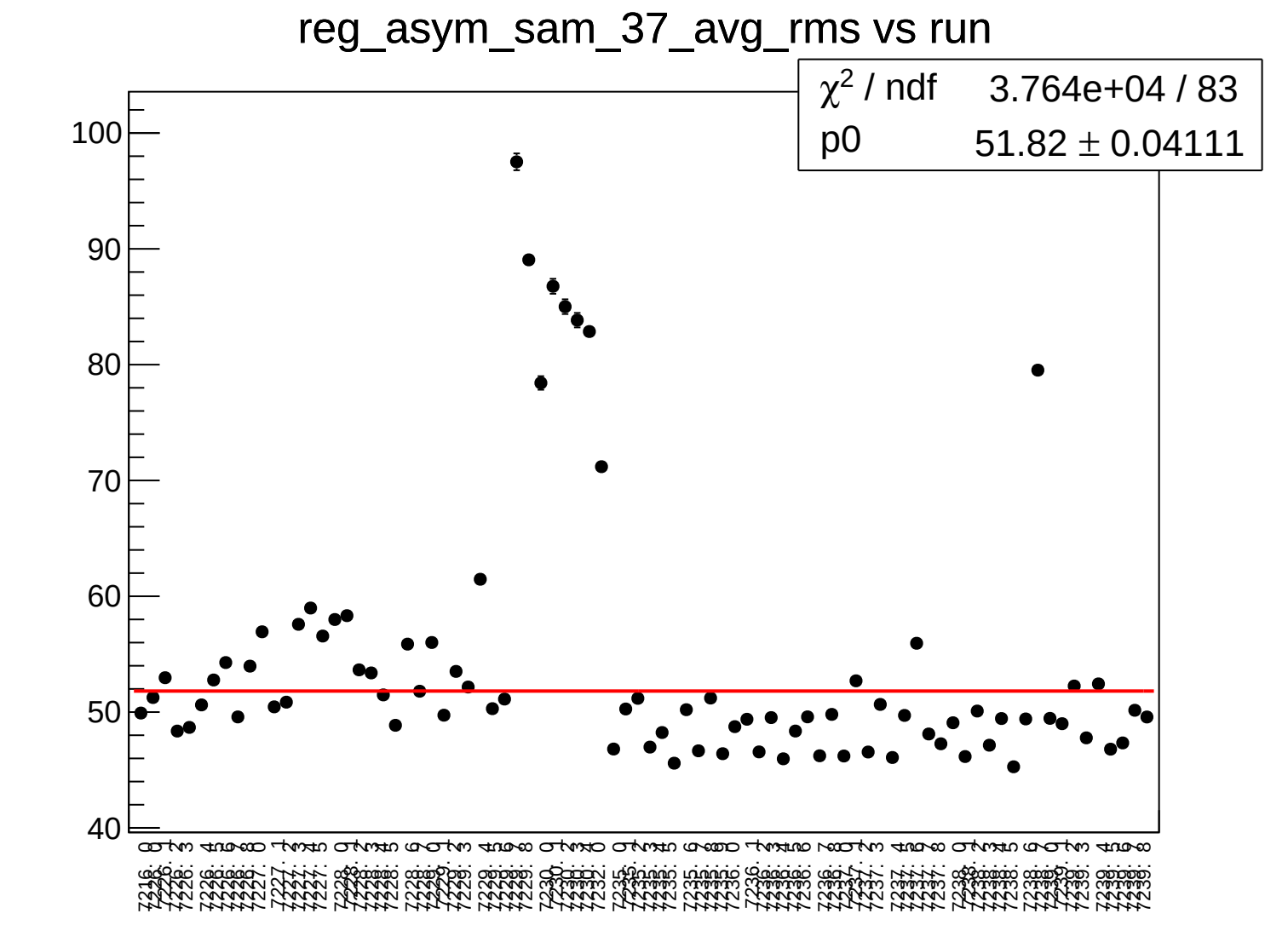

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.85 / 83
p0 −1.222e−14 ± 7.959e−15
1
0.5
0
−0.5
−1
pull
Entries 84
Mean 97.43
Std Dev 0
2
1
0
−1
−2
−3

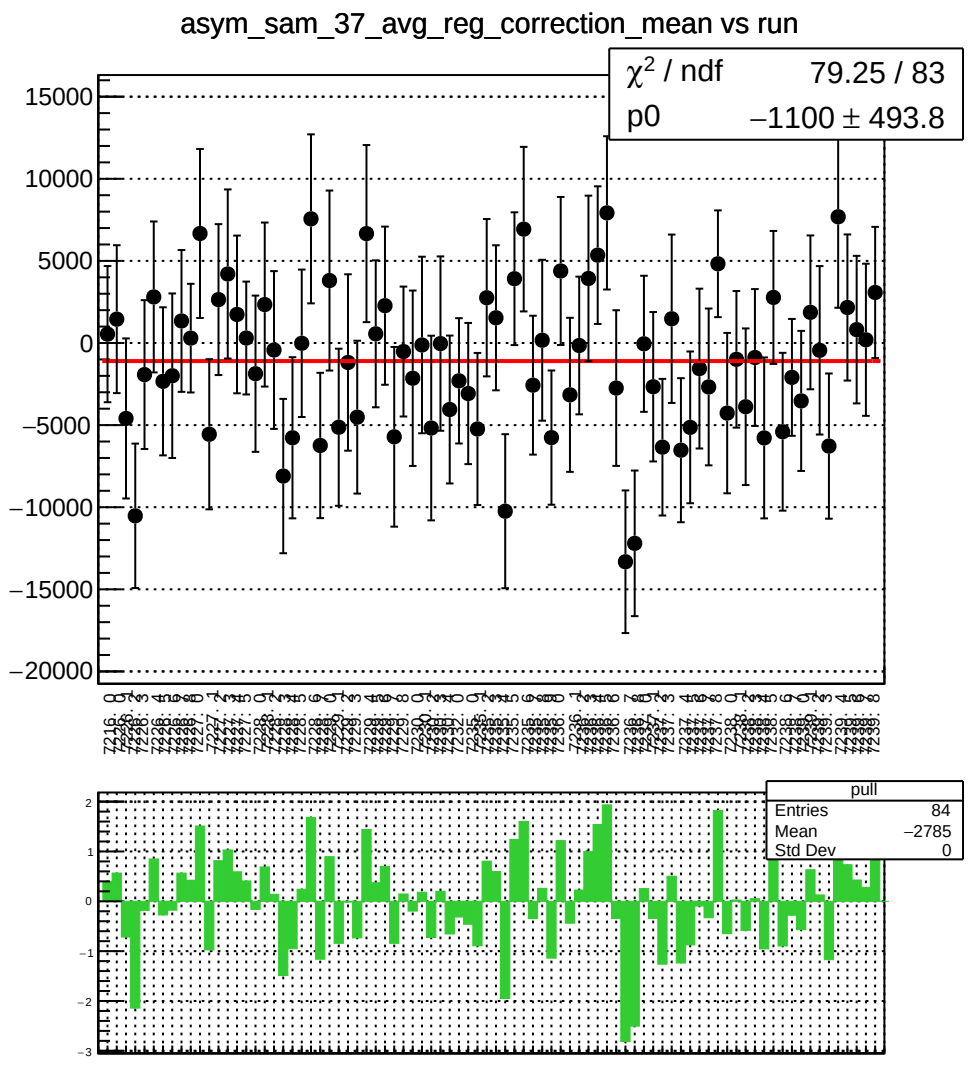

pull1D
Entries 84
Mean −0.03724
Std Dev 1.079
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

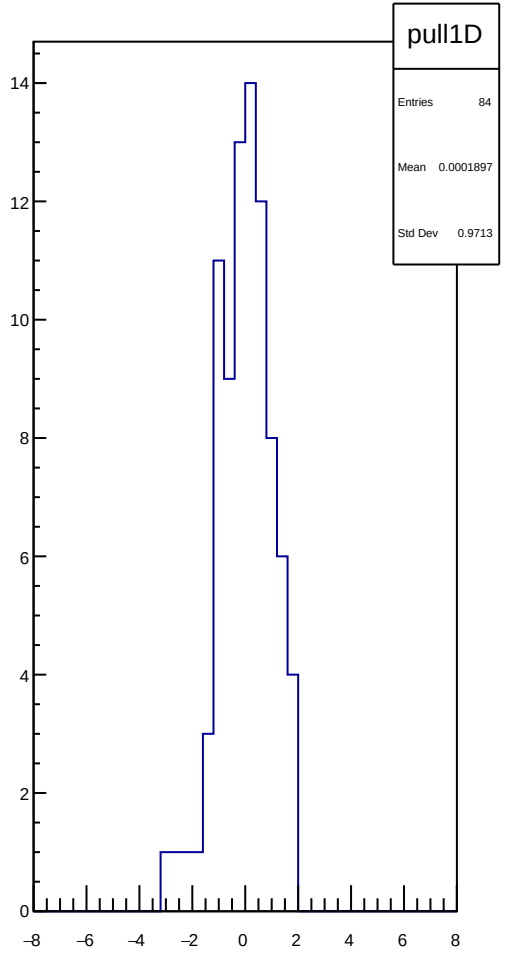

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.857e+05 / 83
p0 6.011e−12 ± 5.628e−15
50
45
40
35
30
25
20
15
10
5

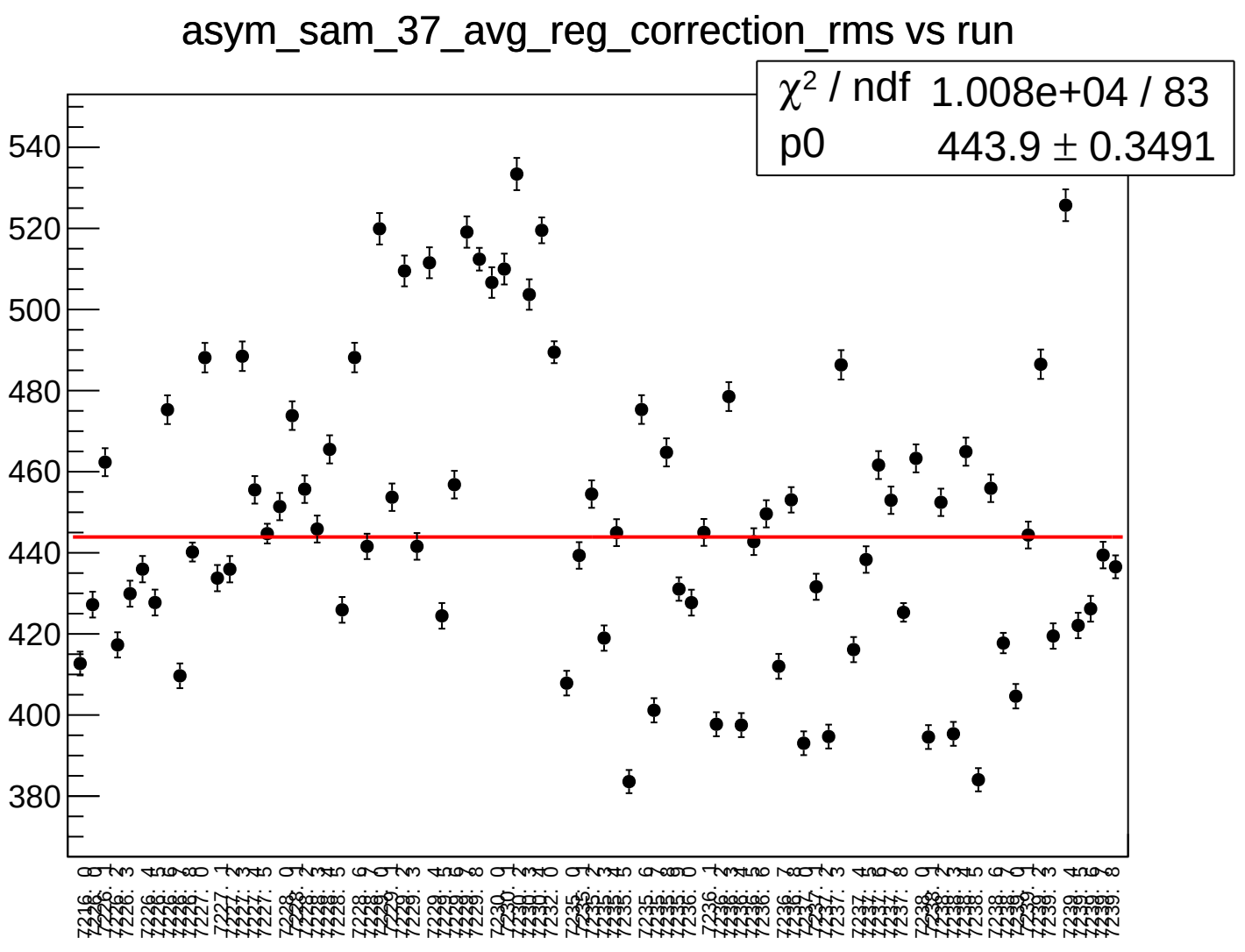

reg_asym_sam_37_avg_mean vs run
χ² / ndf 81.71 / 83
p0 −120.4 ± 58.13
pull
Entries 84
Mean −200.3
Std Dev 0

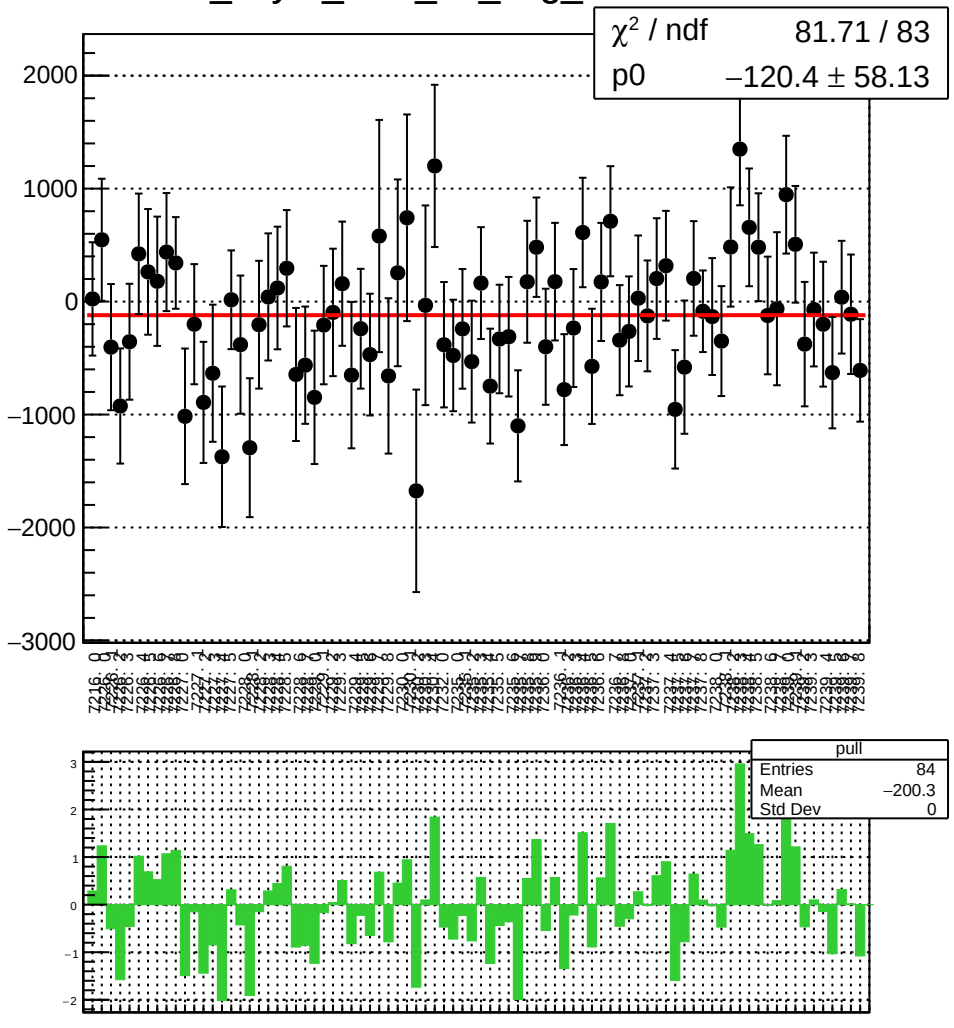

pull1D
Entries 84
Mean −0.01792
Std Dev 0.9861

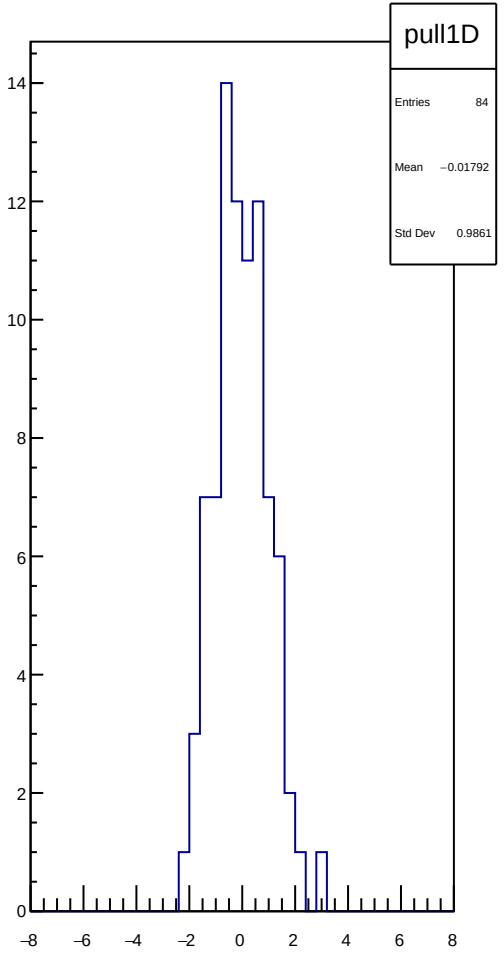

reg_asym_sam_37_avg_rms vs run
χ^2 / ndf 3.764e+04 / 83
p0 51.82 ± 0.04111
100
90
80
70
60
50
40

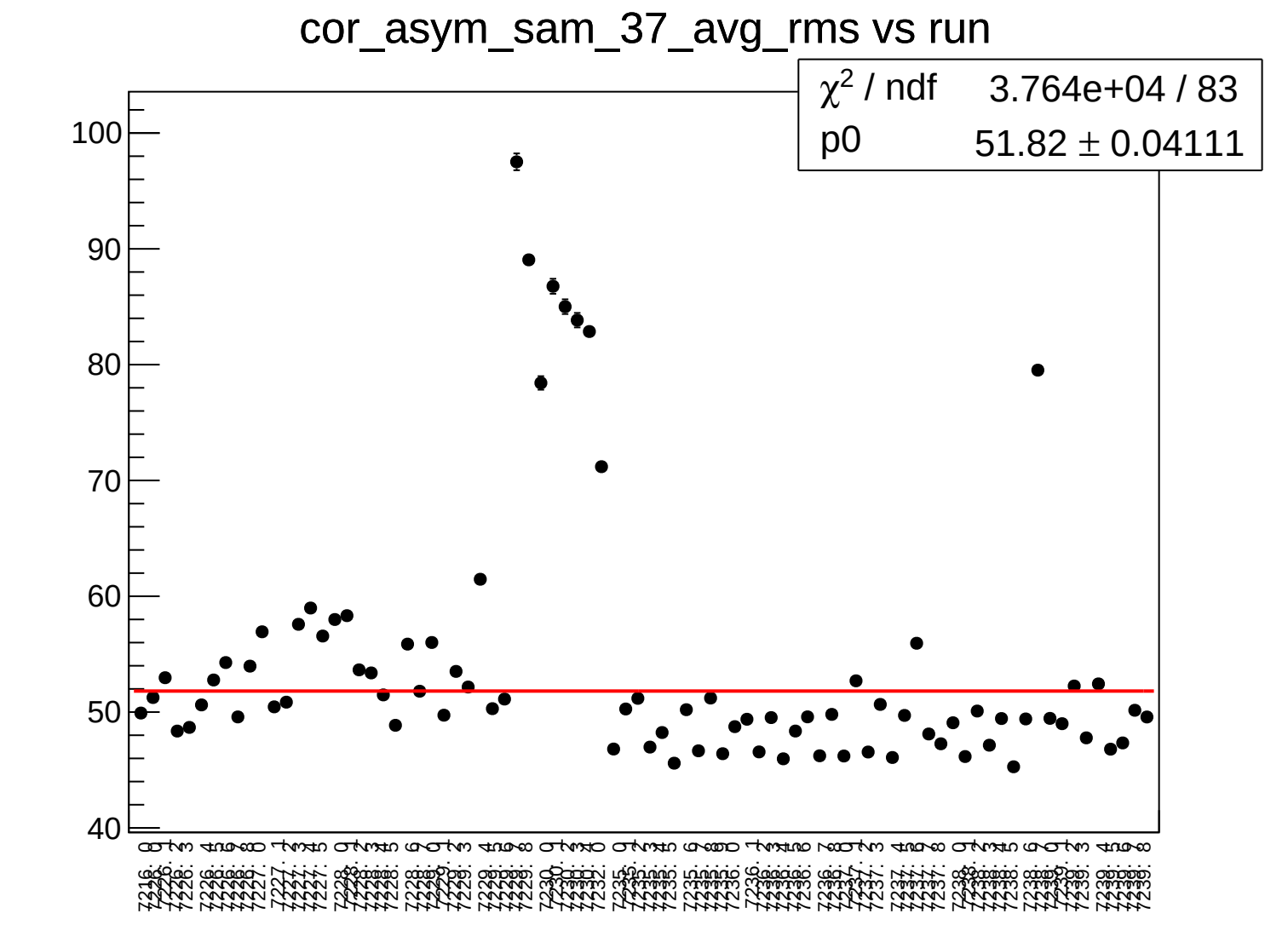

asym_sam_37_avg_reg_correction_mean vs run
χ² / ndf 79.25 / 83
p0 −1100 ± 493.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 84
Mean −2785
Std Dev 0
2
1
0
−1
−2
−3

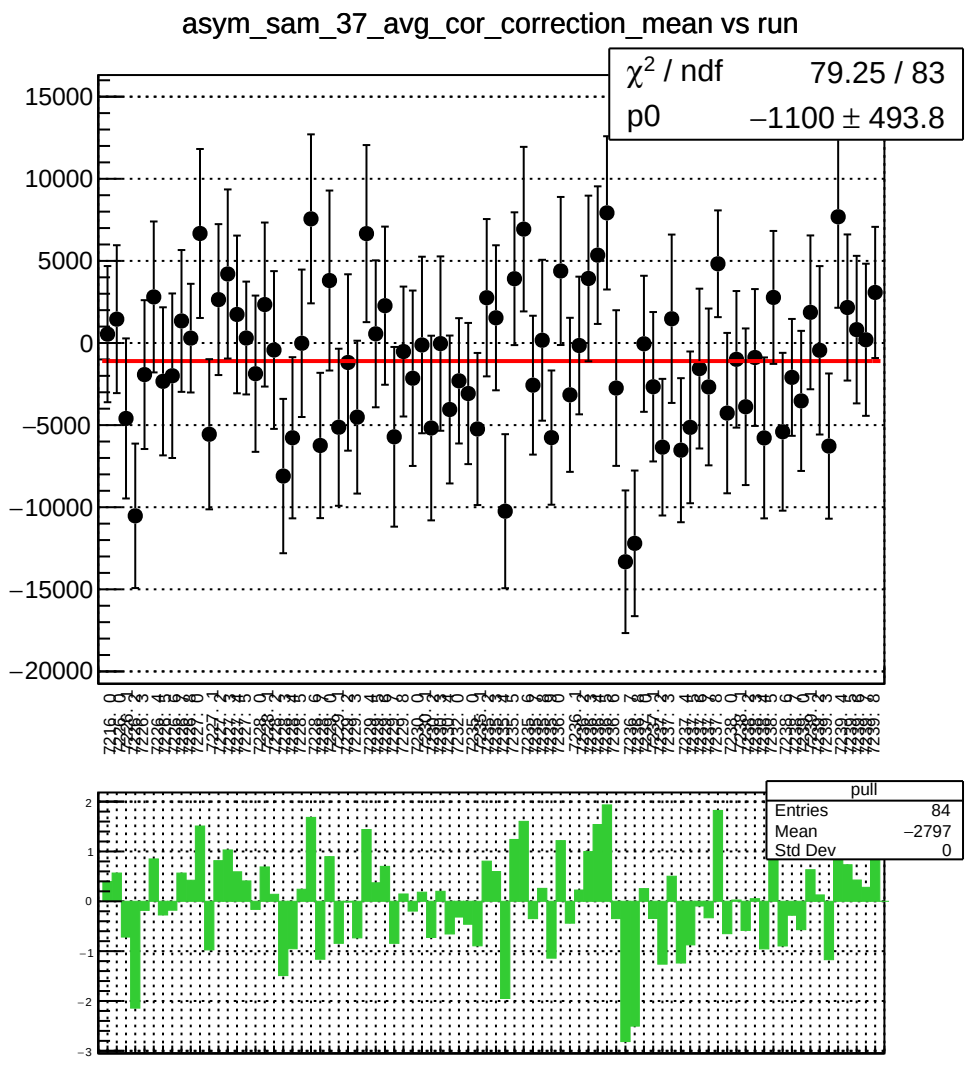

pull1D
Entries 84
Mean 0.0001897
Std Dev 0.9713
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

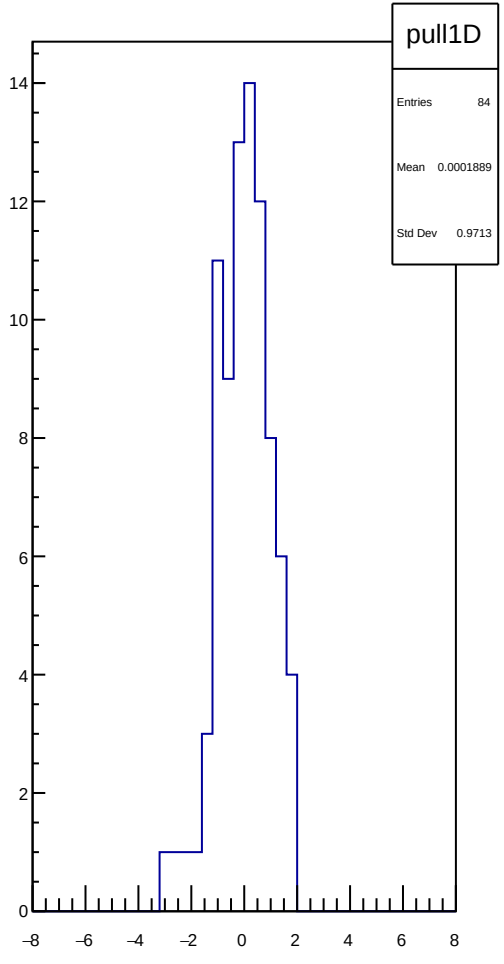

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 1.008e+04 / 83
p0 443.9 ± 0.3491
540
520
500
480
460
440
420
400
380

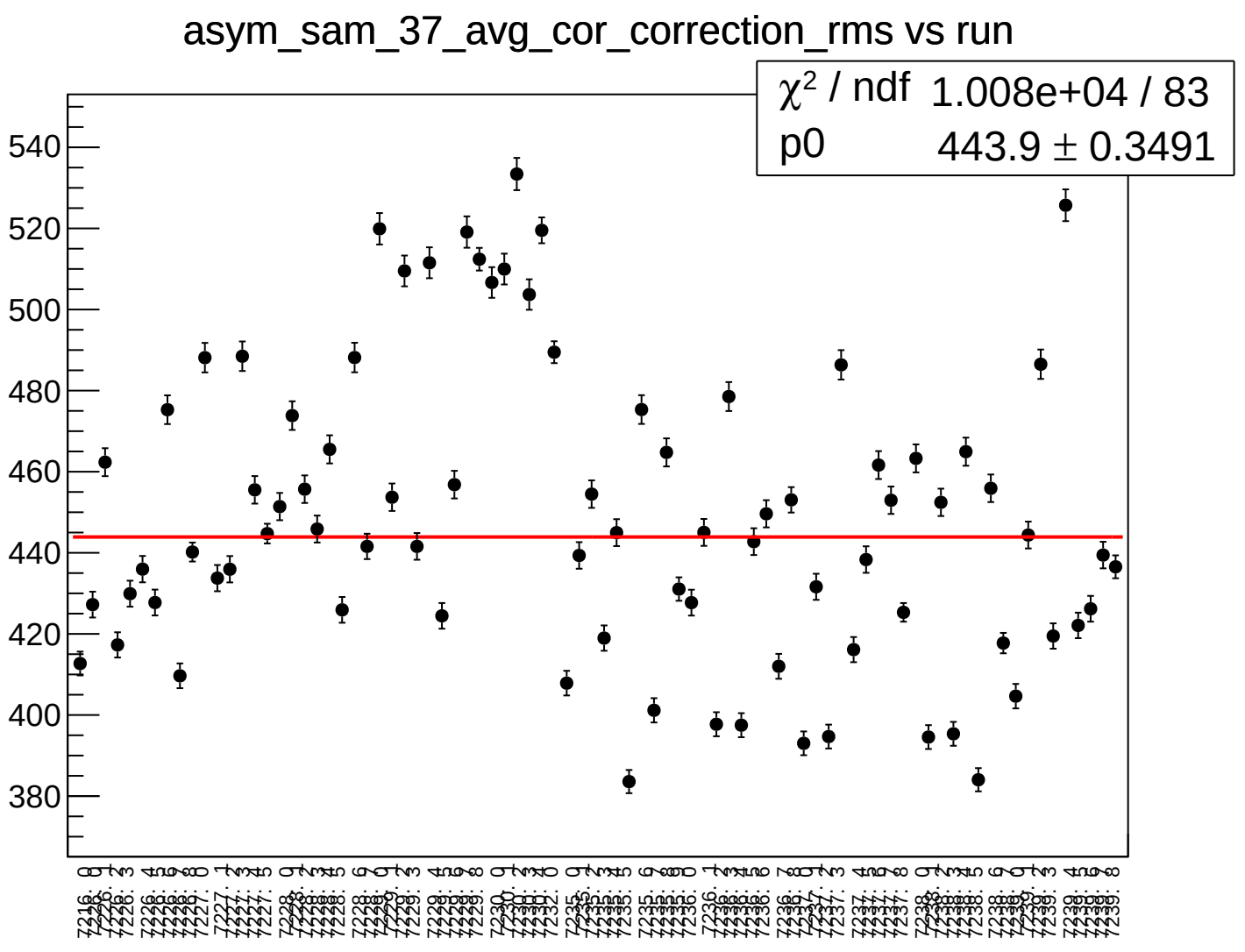

cor_asym_sam_37_avg_mean vs run
χ² / ndf 81.71 / 83
p0 −120.4 ± 58.13
pull
Entries 84
Mean −200.3
Std Dev 0

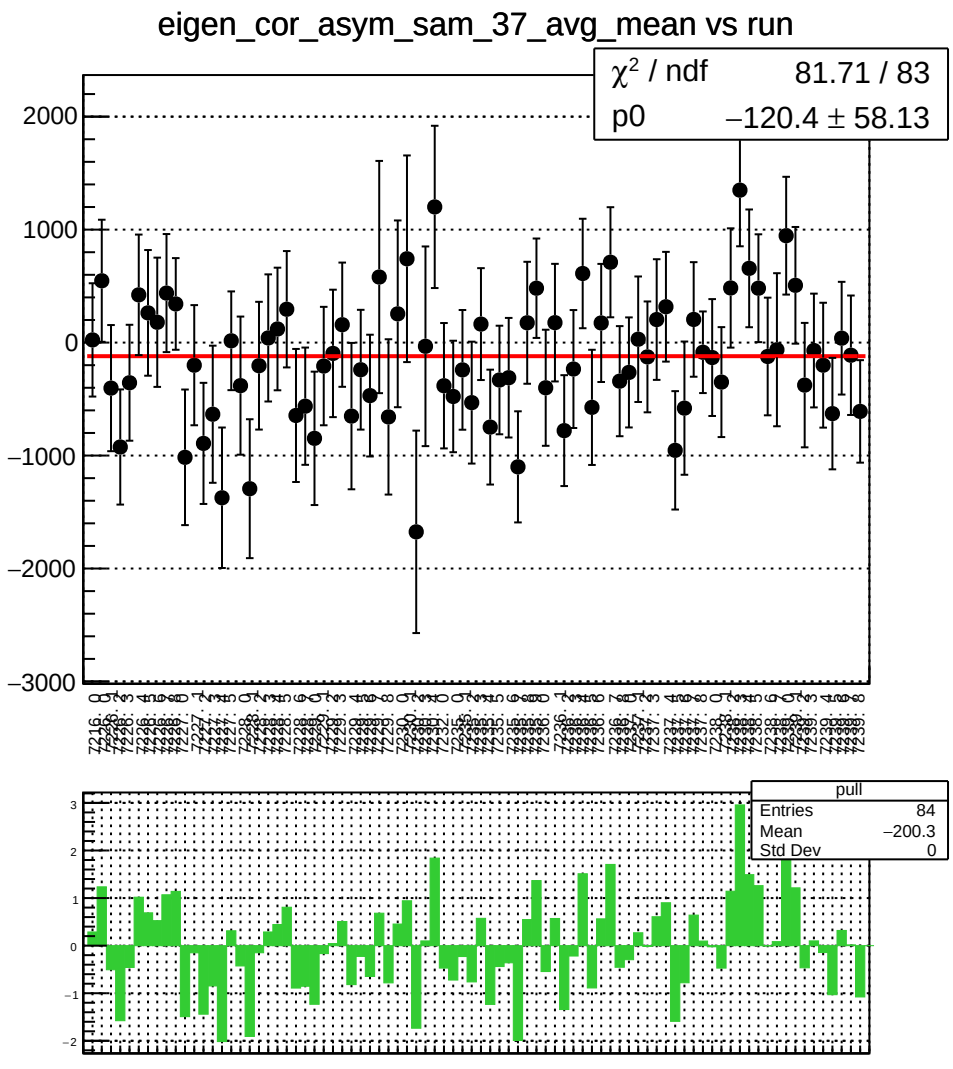

pull1D
Entries 84
Mean −0.01792
Std Dev 0.9861

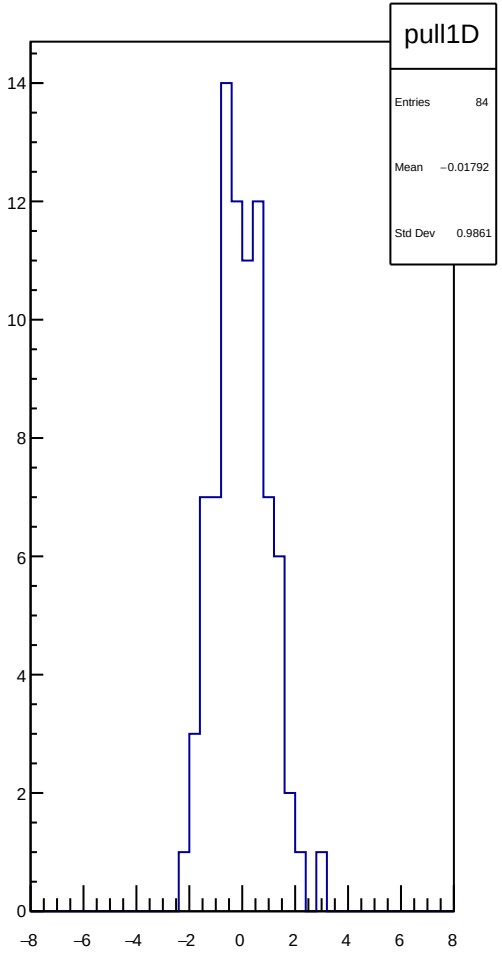

cor_asym_sam_37_avg_rms vs run
χ^2 / ndf 3.764e+04 / 83
p0 51.82 ± 0.04111
100
90
80
70
60
50
40

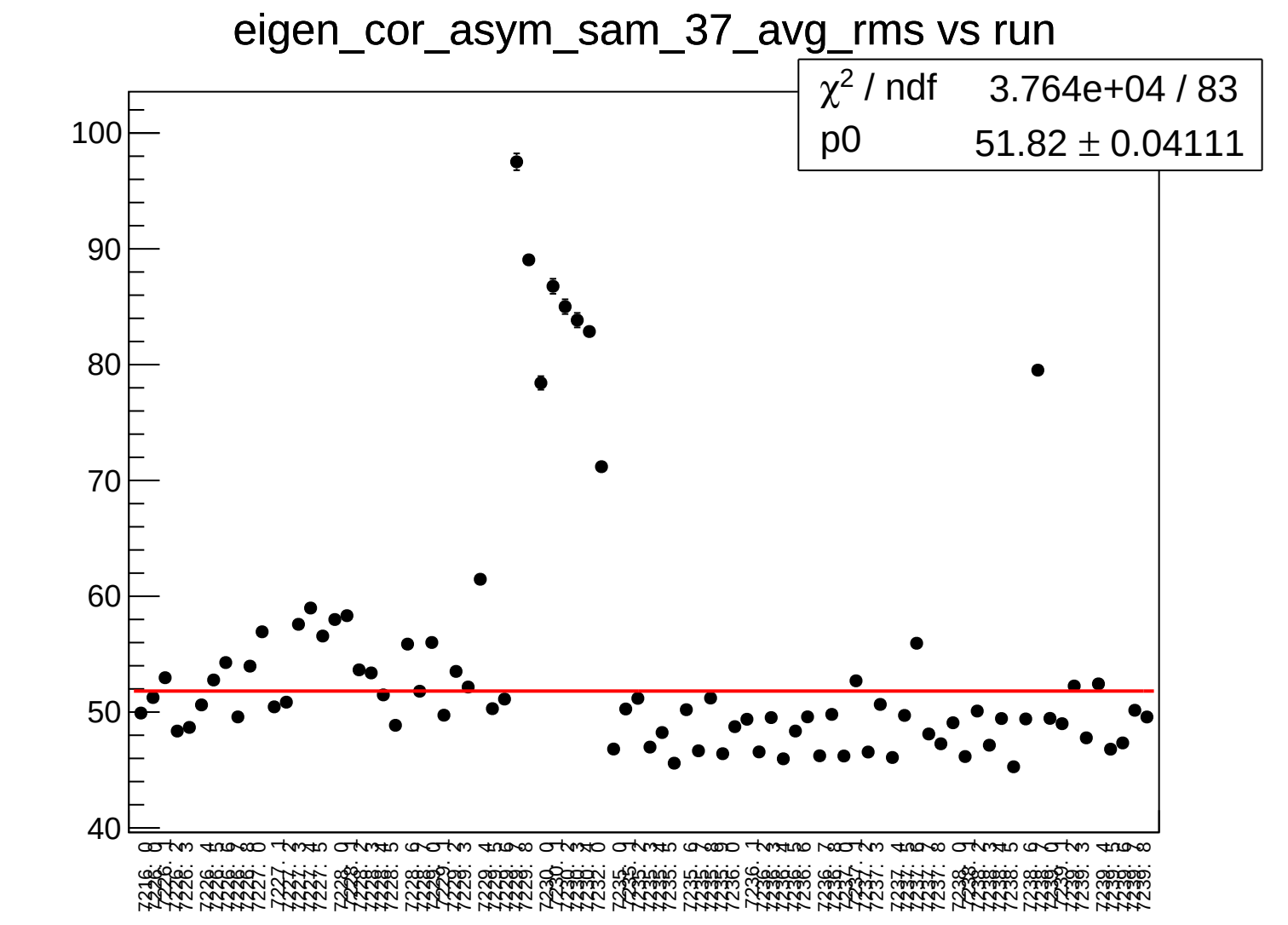

asym_sam_37_avg_cor_correction_mean vs run
χ² / ndf 79.25 / 83
p0 −1100 ± 493.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 84
Mean −2797
Std Dev 0
2
1
0
−1
−2
−3

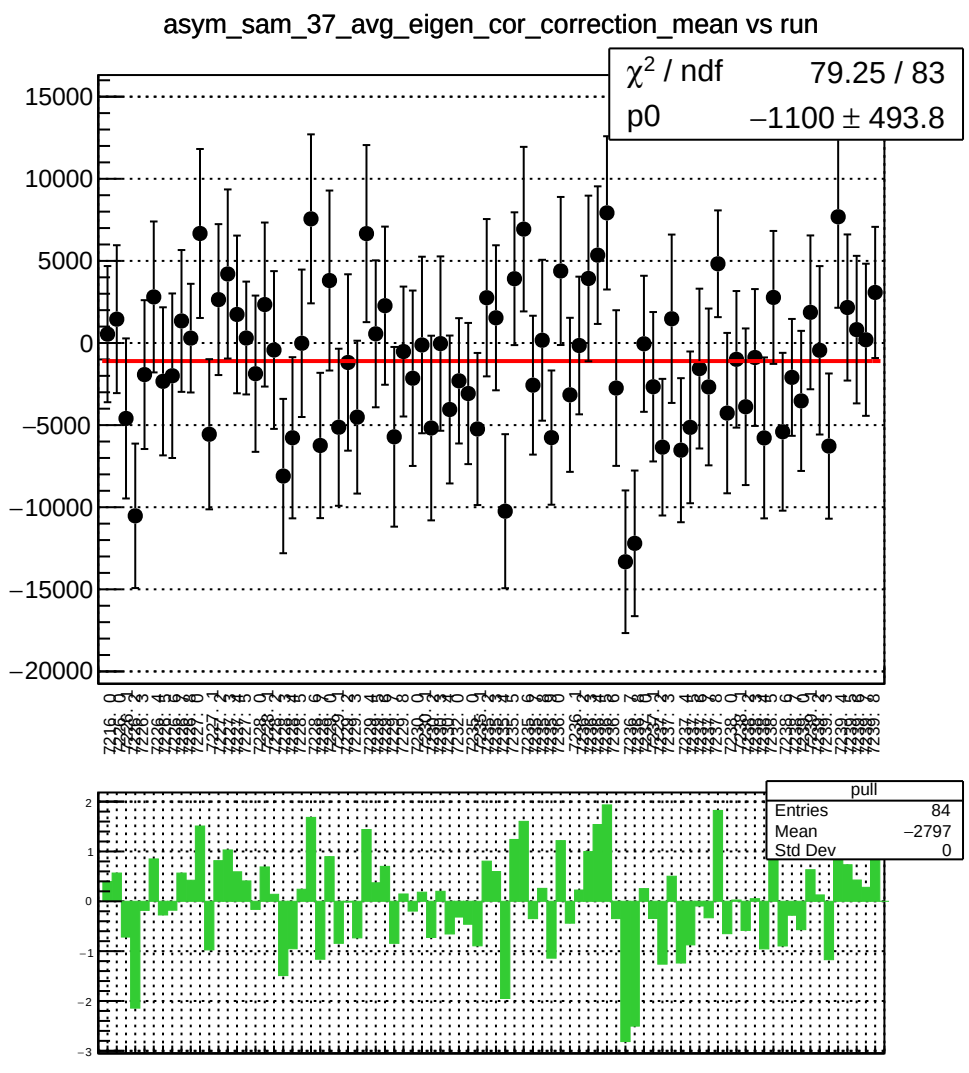

pull1D
Entries 84
Mean 0.0001889
Std Dev 0.9713
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

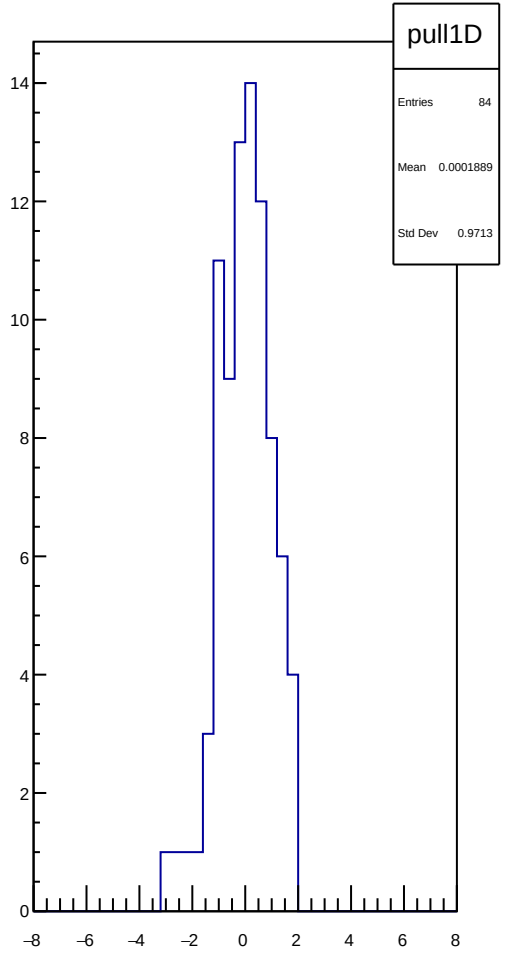

asym_sam_37_avg_cor_correction_rms vs run
χ² / ndf 1.008e+04 / 83
p0 443.9 ± 0.3491
540
520
500
480
460
440
420
400
380

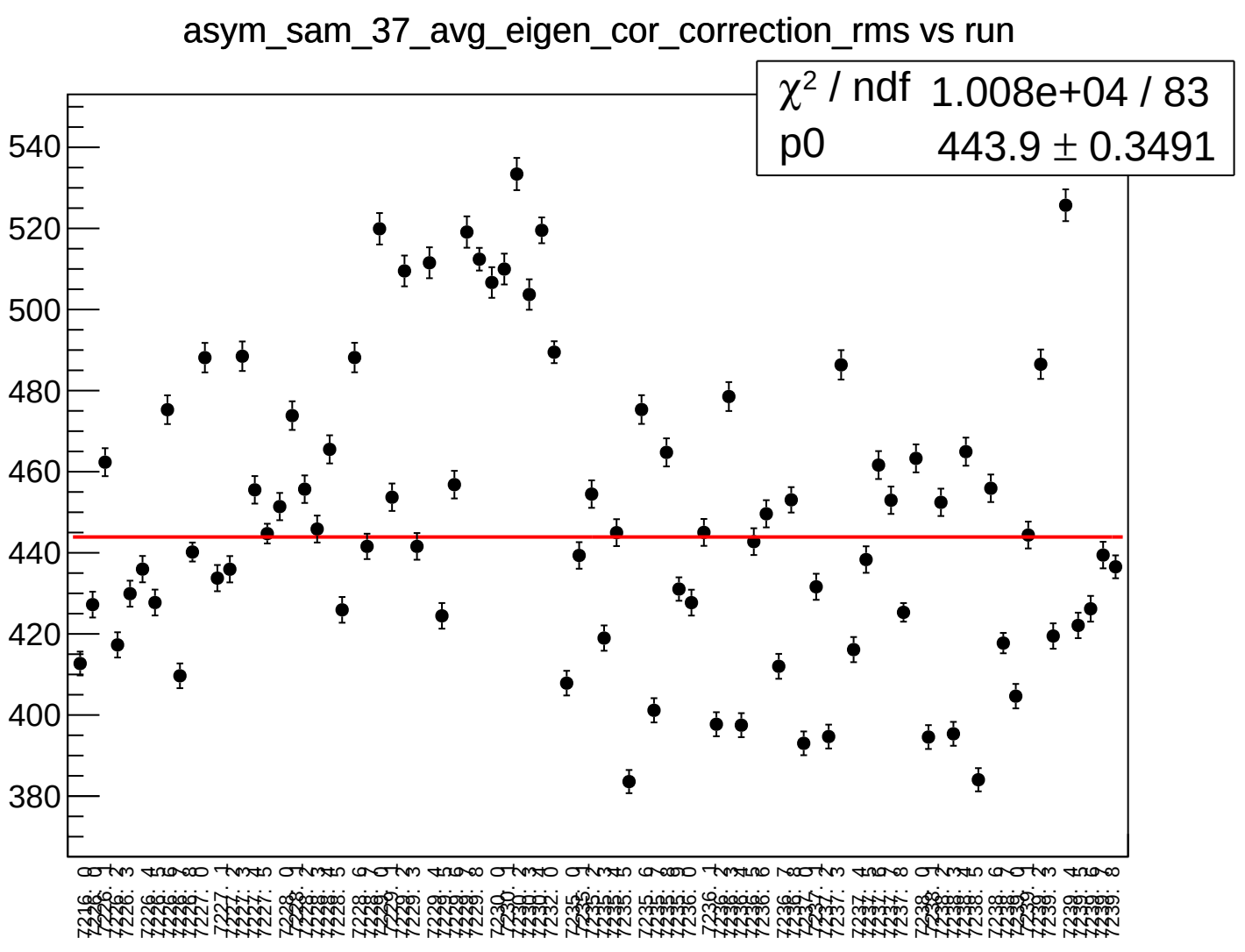

eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 81.71 / 83
p0 −120.4 ± 58.13
pull
Entries 84
Mean −200.3
Std Dev 0

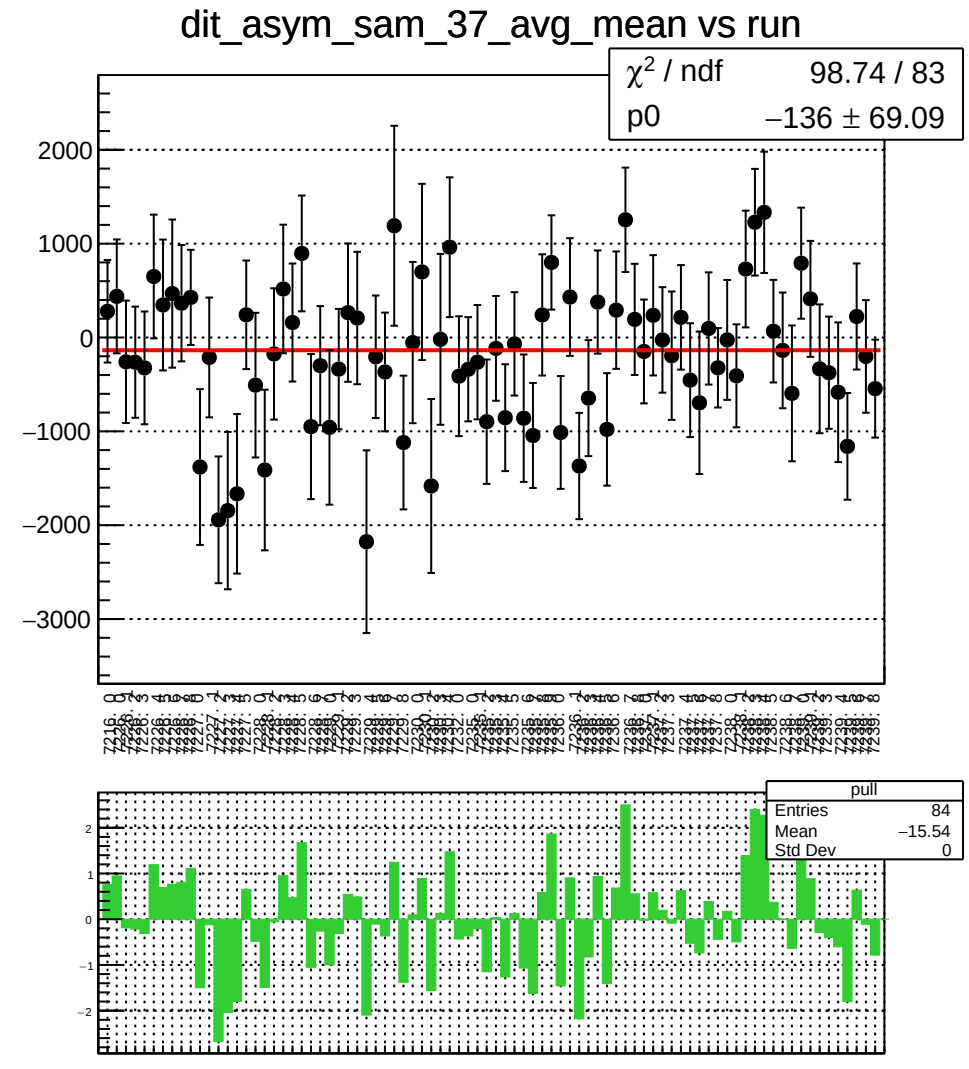

pull1D
Entries 84
Mean −0.01792
Std Dev 0.9861

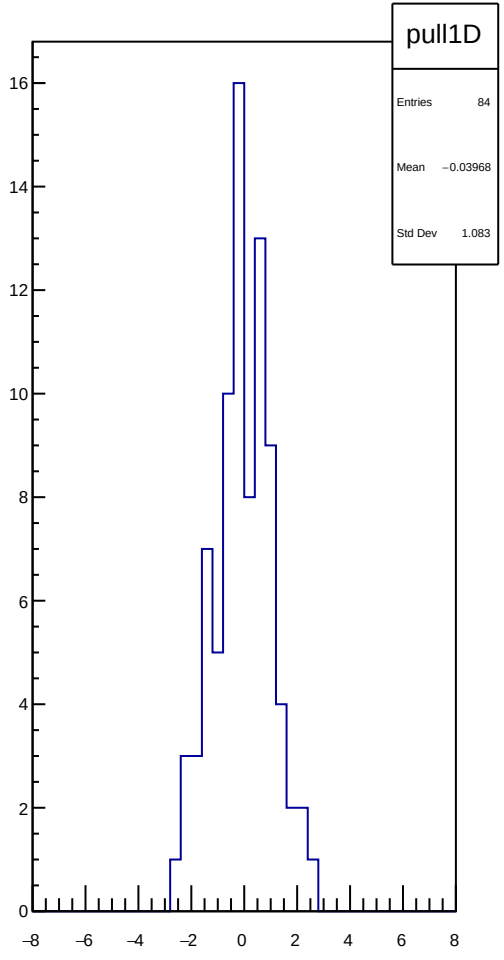

eigen_cor_asym_sam_37_avg_rms vs run
χ^2 / ndf 3.764e+04 / 83
p0 51.82 ± 0.04111
100
90
80
70
60
50
40

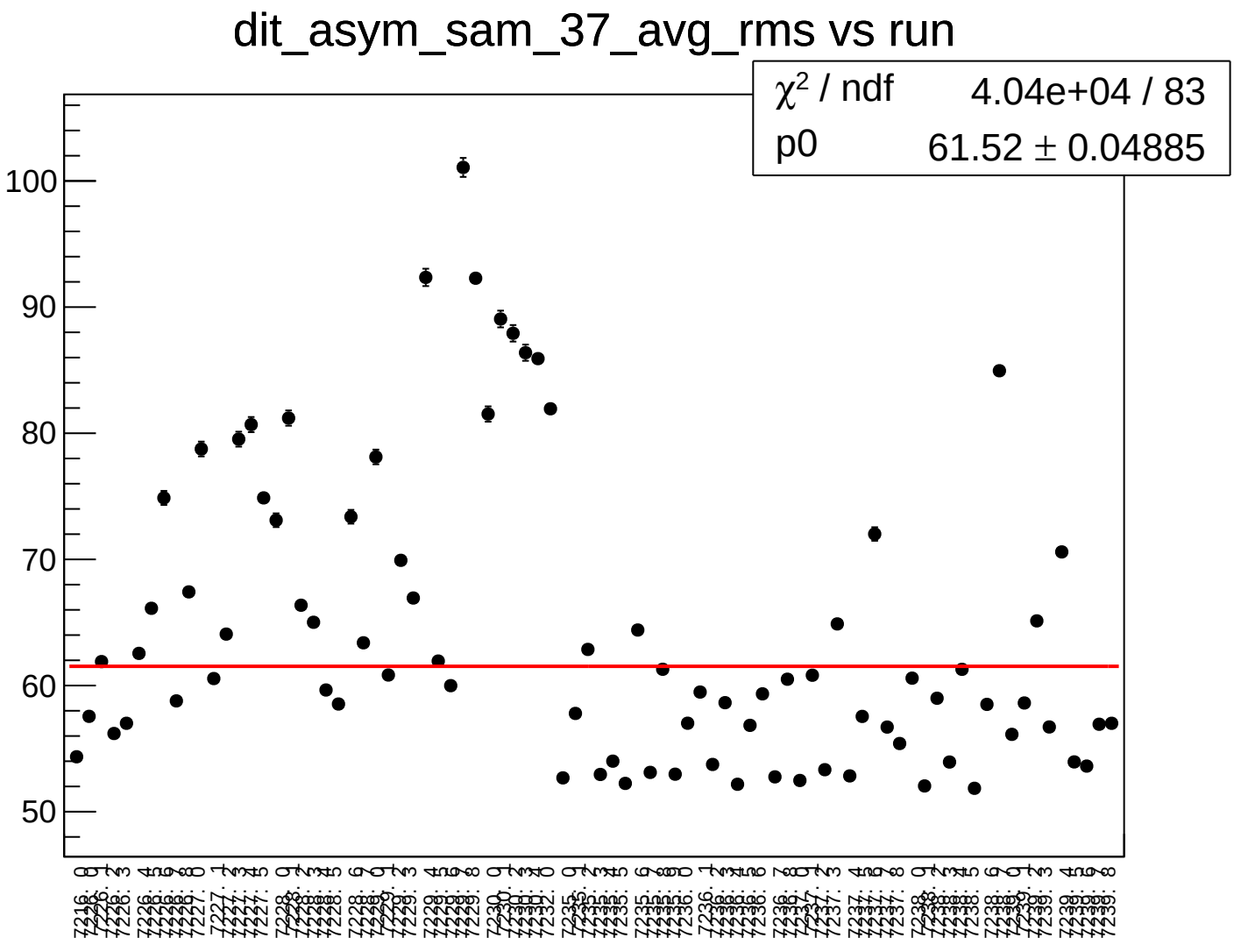

asym_sam_37_avg_eigen_cor_correction_mean vs run
χ² / ndf 79.25 / 83
p0 −1100 ± 493.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 84
Mean −2797
Std Dev 0
2
1
0
−1
−2
−3

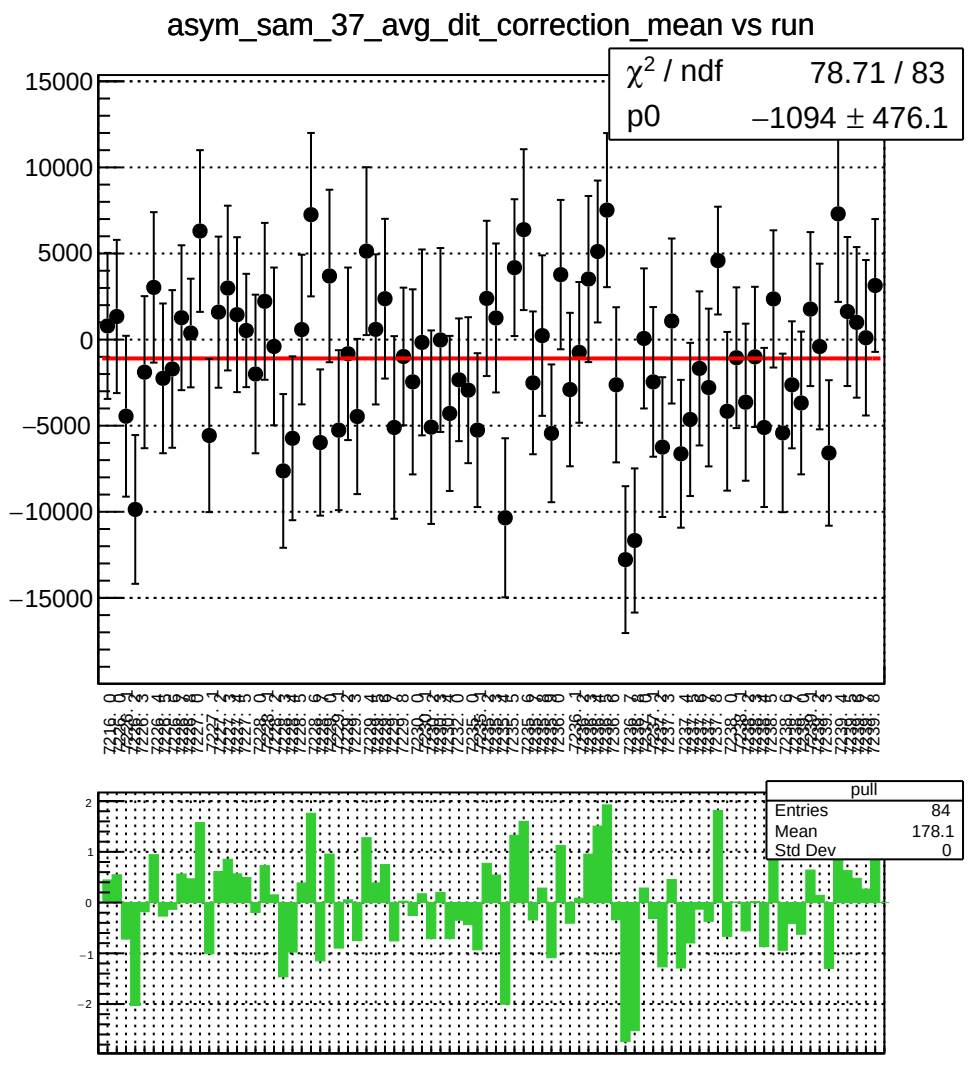

pull1D
Entries 84
Mean 0.0001889
Std Dev 0.9713
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

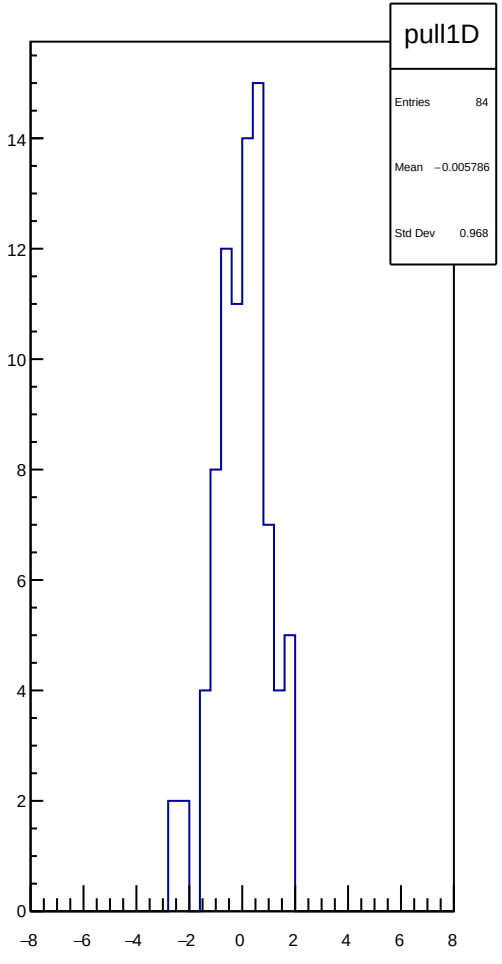

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.008e+04 / 83
p0 443.9 ± 0.3491
540
520
500
480
460
440
420
400
380

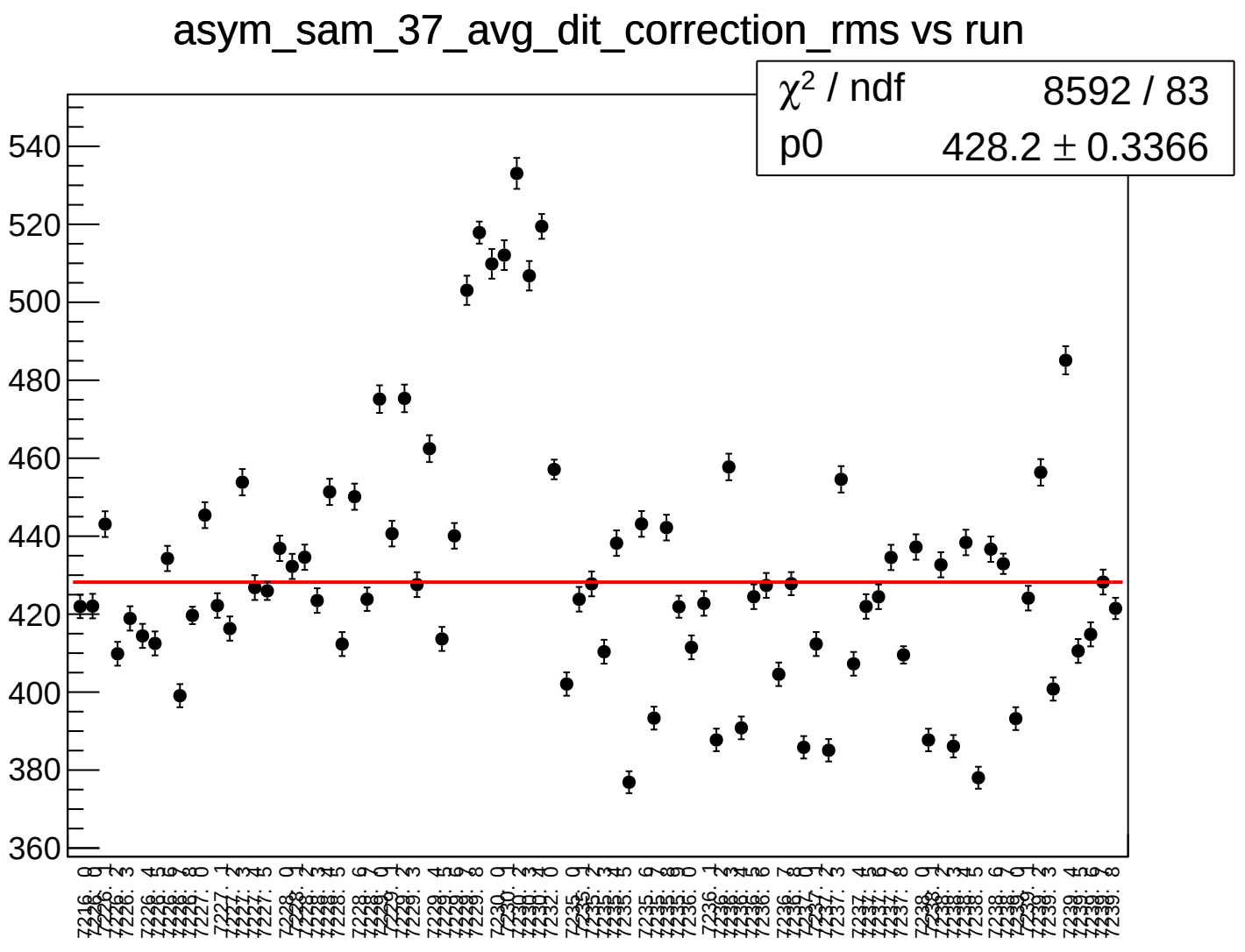

dit_asym_sam_37_avg_mean vs run
χ² / ndf 98.74 / 83
p0 −136 ± 69.09
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean −15.54
Std Dev 0
2
1
0
−1
−2

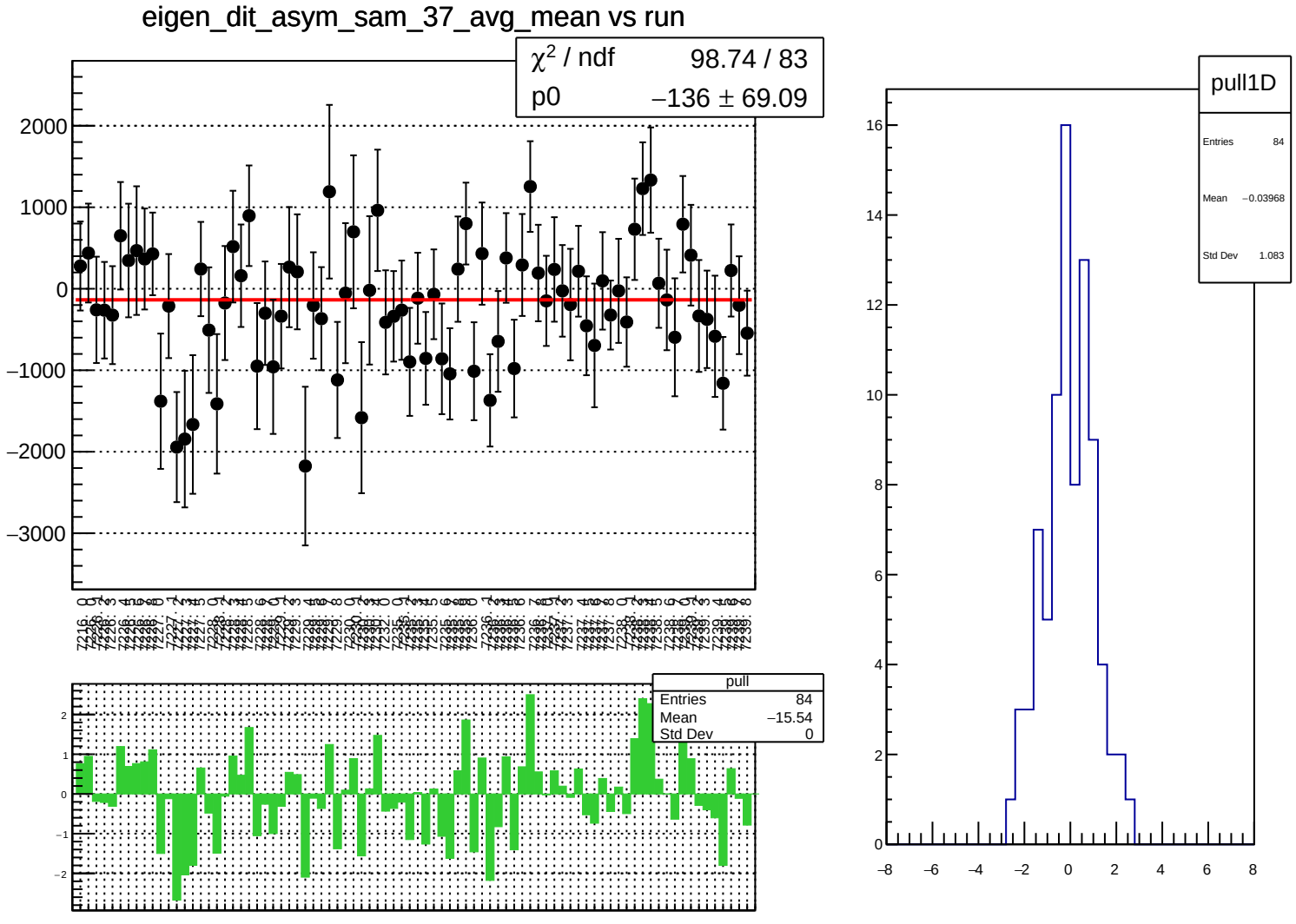

pull1D
Entries 84
Mean −0.03968
Std Dev 1.083
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

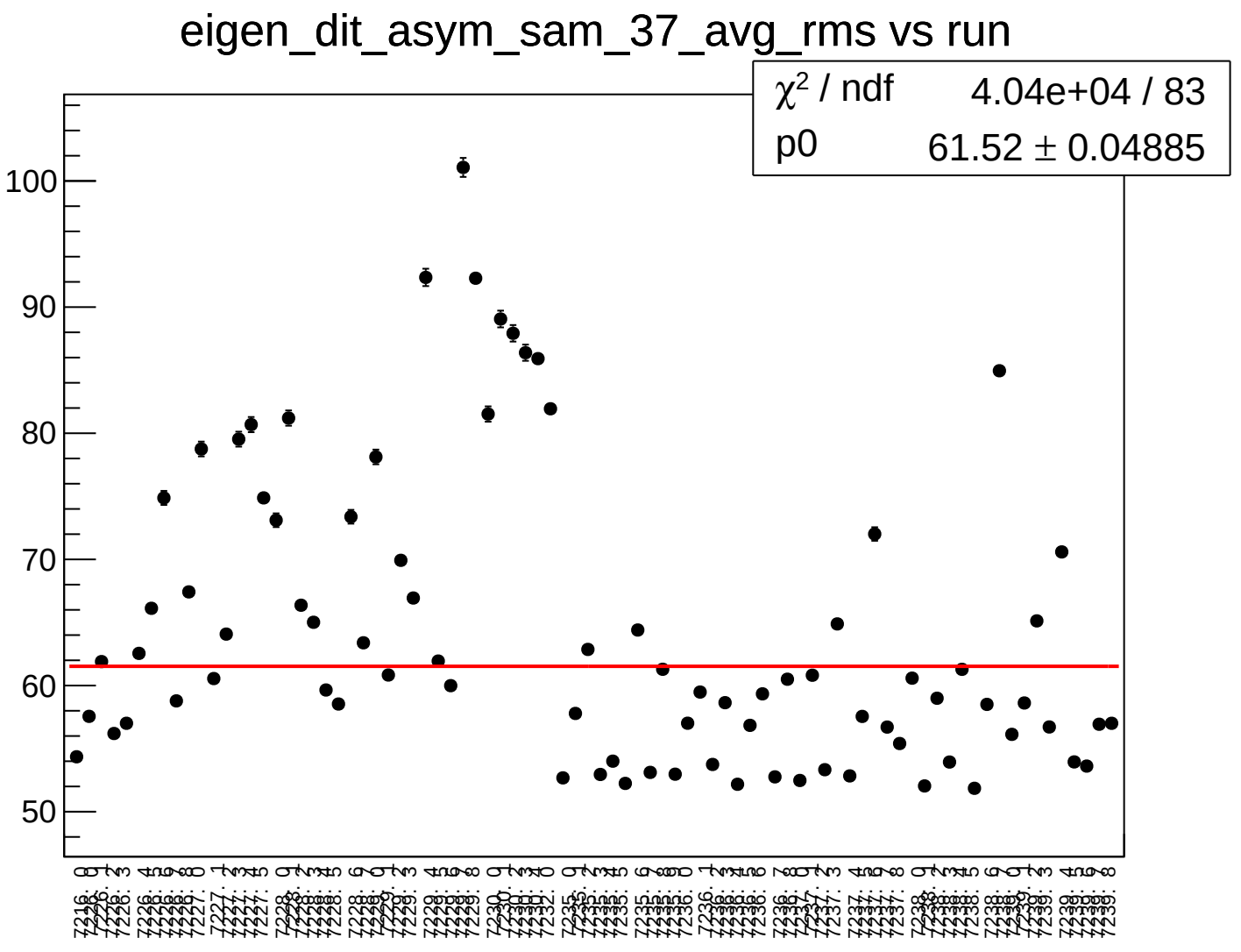

dit_asym_sam_37_avg_rms vs run
χ^2 / ndf 4.04e+04 / 83
p0 61.52 ± 0.04885
100
90
80
70
60
50

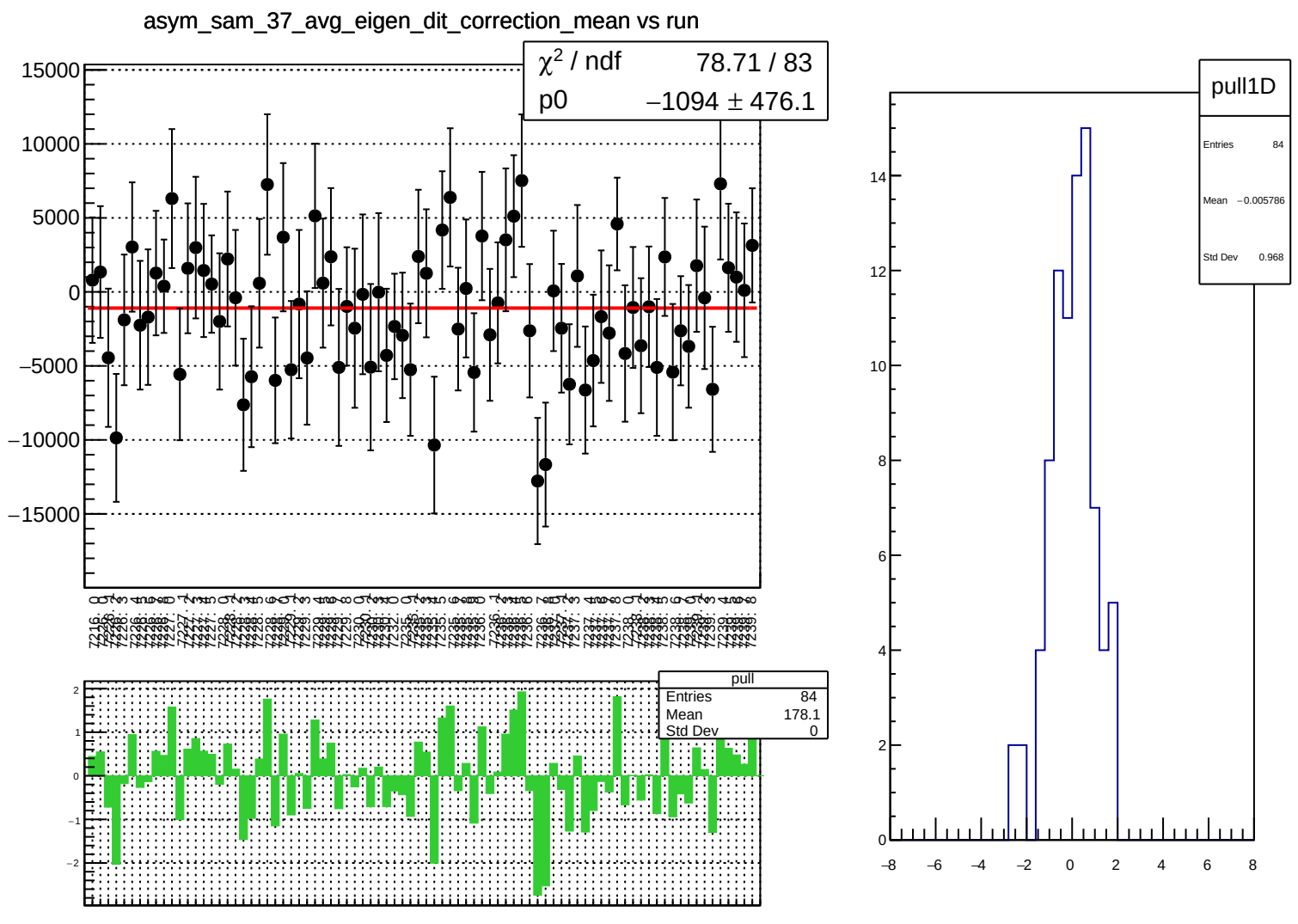

asym_sam_37_avg_dit_correction_mean vs run
χ² / ndf 78.71 / 83
p0 −1094 ± 476.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 178.1
Std Dev 0
2
1
0
−1
−2

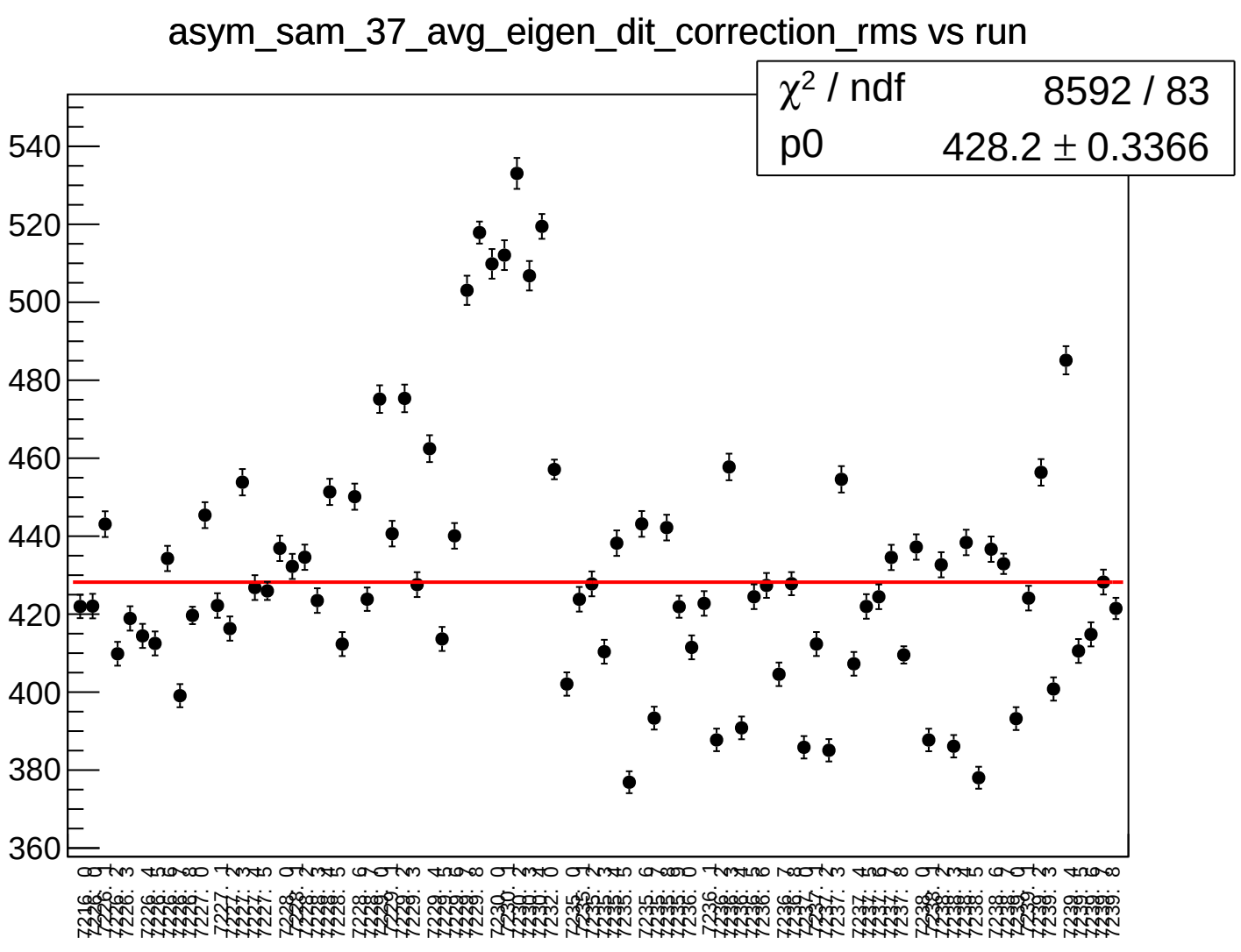

pull1D
Entries 84
Mean −0.005786
Std Dev 0.968
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

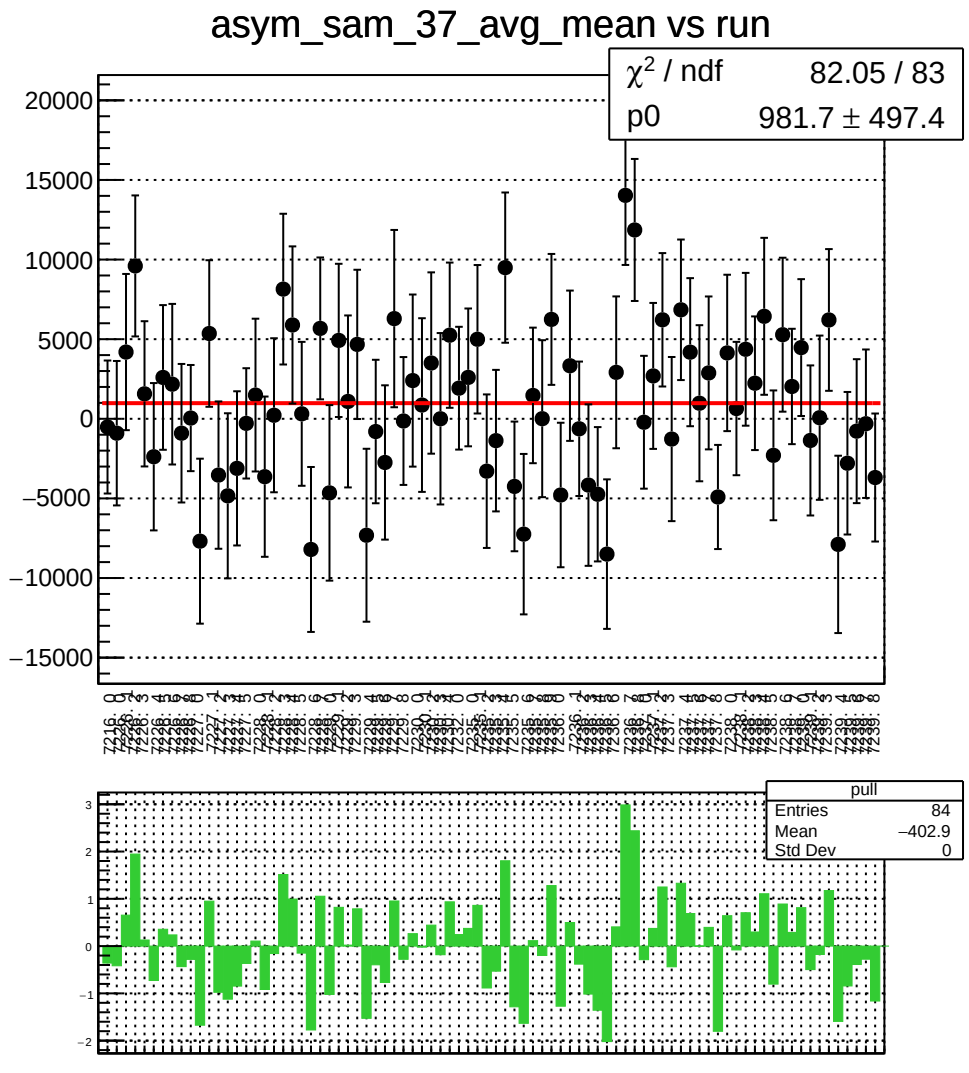

asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 8592 / 83
p0 428.2 ± 0.3366
540
520
500
480
460
440
420
400
380
360

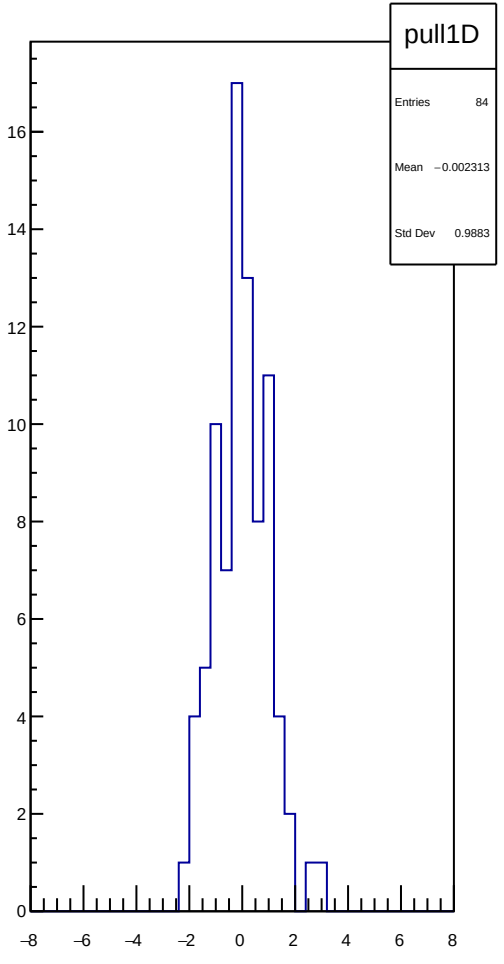

eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 98.74 / 83
p0 −136 ± 69.09
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean −15.54
Std Dev 0
pull1D
Entries 84
Mean −0.03968
Std Dev 1.083
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

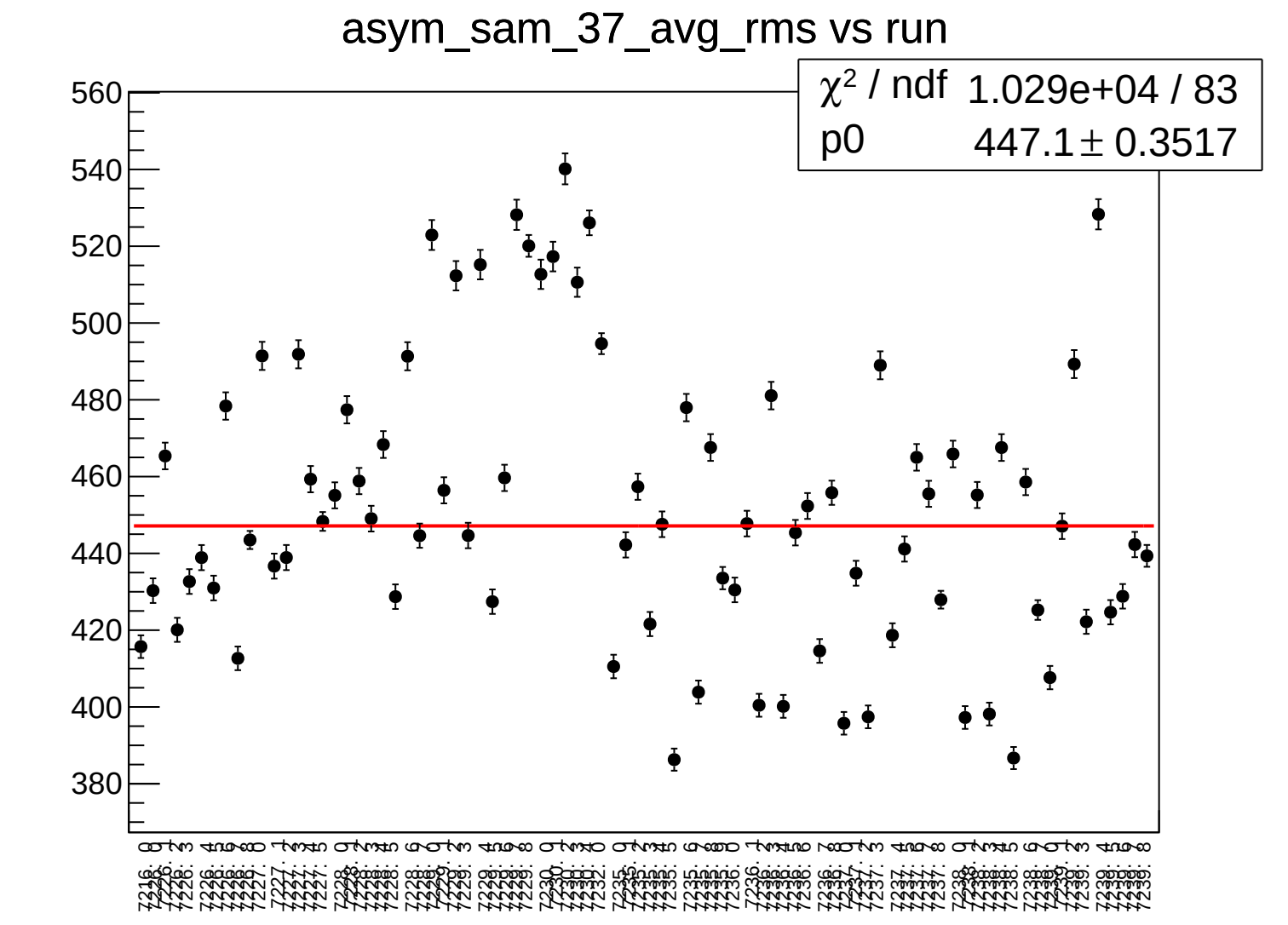

eigen_dit_asym_sam_37_avg_rms vs run
χ^2 / ndf 4.04e+04 / 83
p0 61.52 ± 0.04885
100
90
80
70
60
50

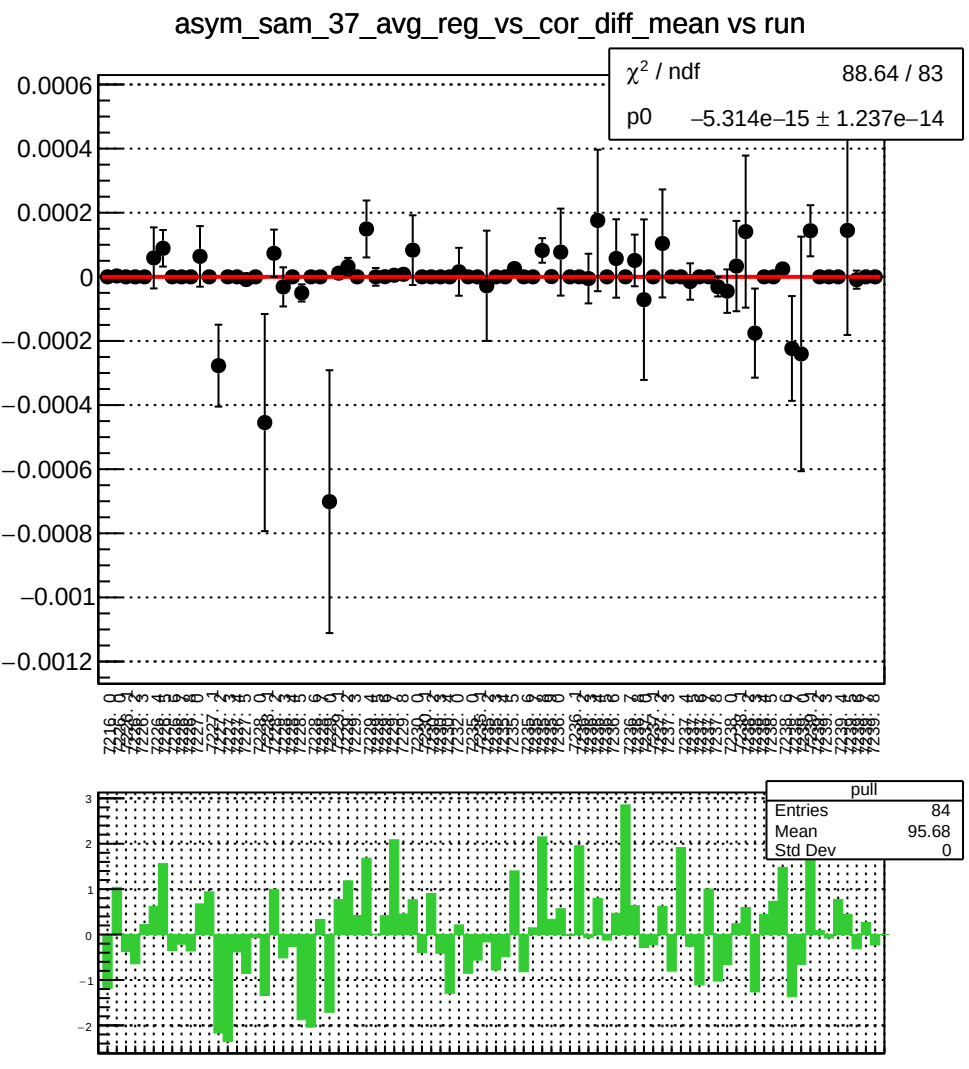

asym_sam_37_avg_eigen_dit_correction_mean vs run
χ² / ndf 78.71 / 83
p0 −1094 ± 476.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 178.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.005786
Std Dev 0.968
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

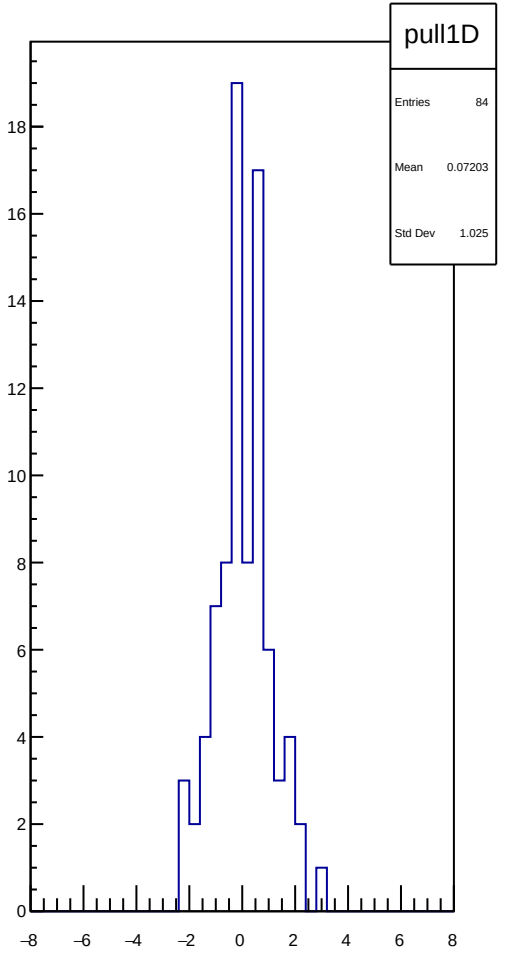

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 8592 / 83
p0 428.2 ± 0.3366
540
520
500
480
460
440
420
400
380
360

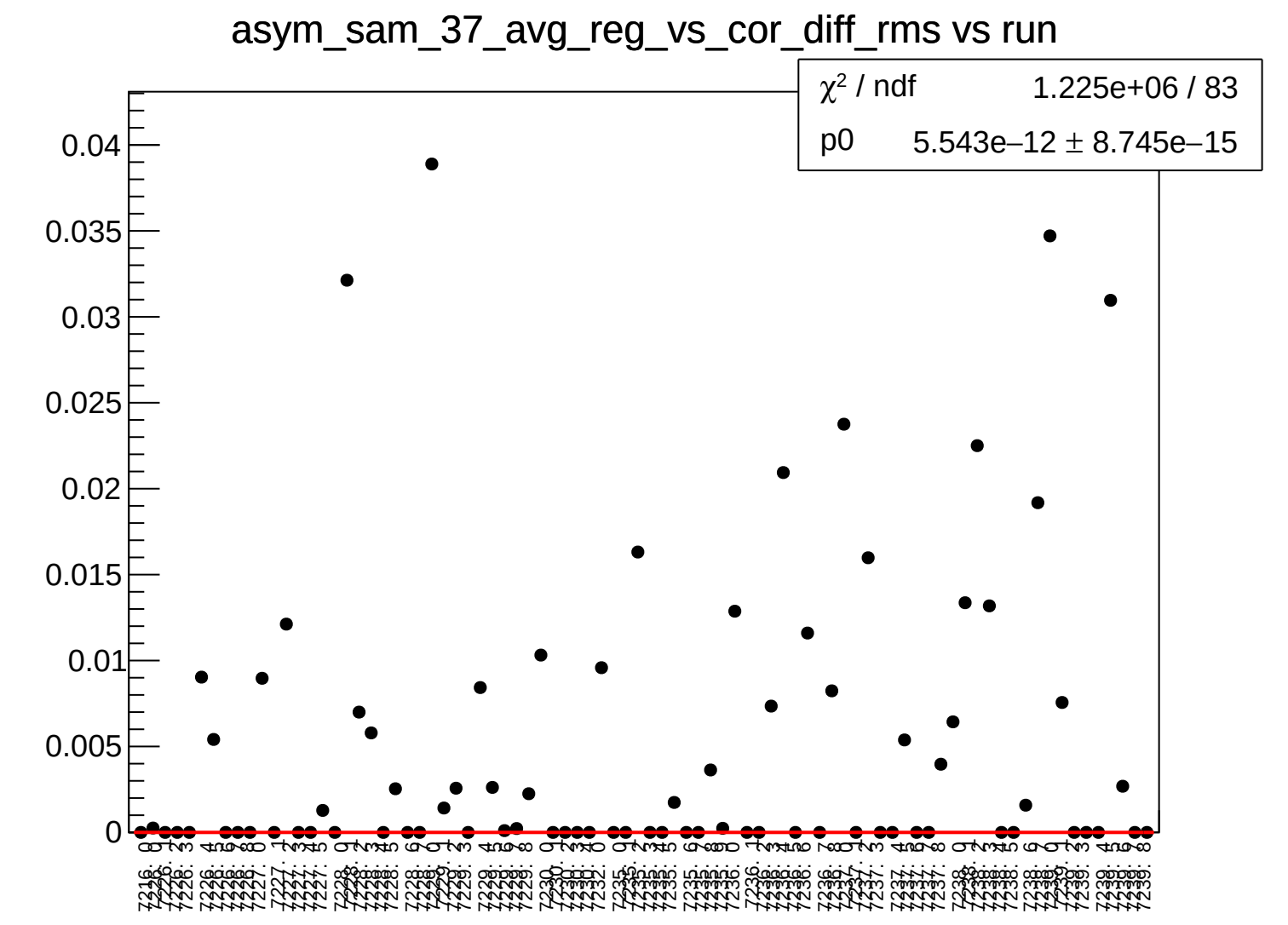

asym_sam_37_avg_mean vs run
χ² / ndf 82.05 / 83
p0 981.7 ± 497.4
pull
Entries 84
Mean −402.9
Std Dev 0

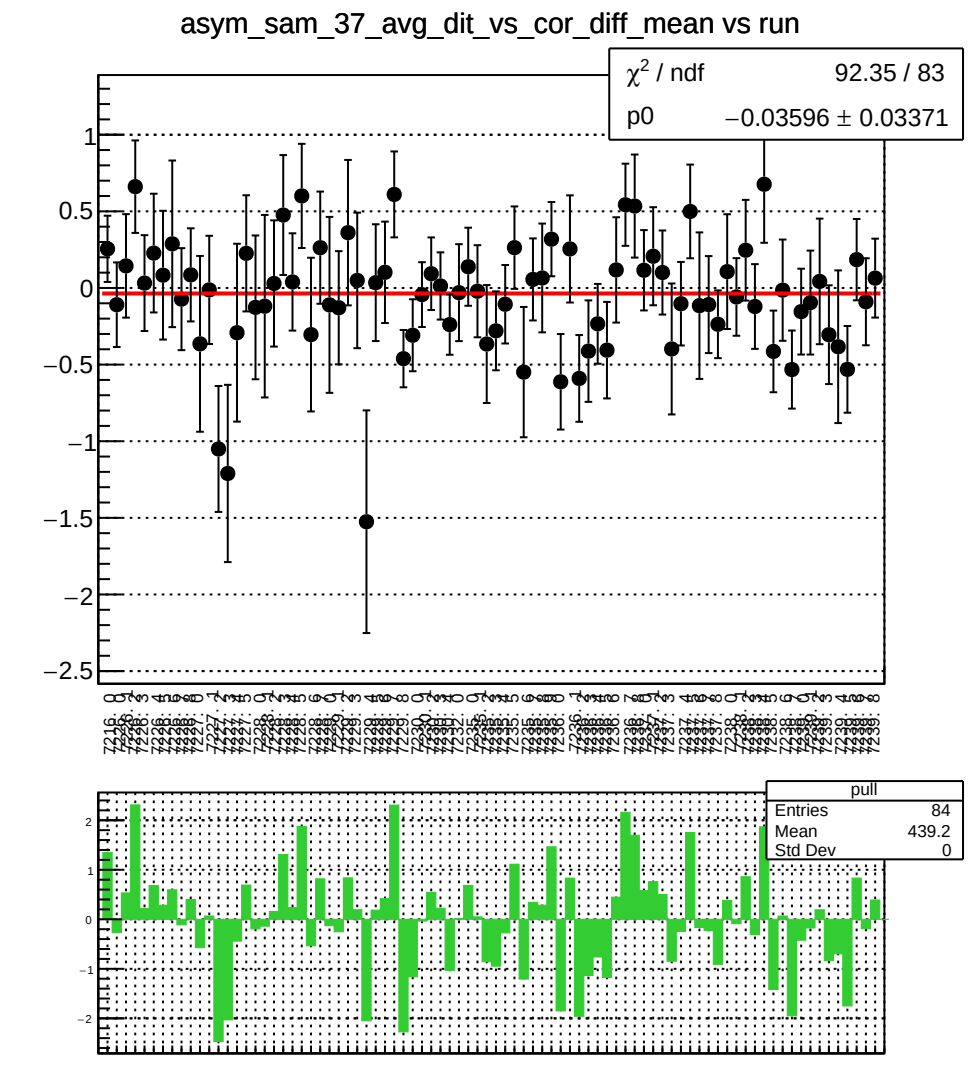

pull1D
Entries 84
Mean −0.002313
Std Dev 0.9883

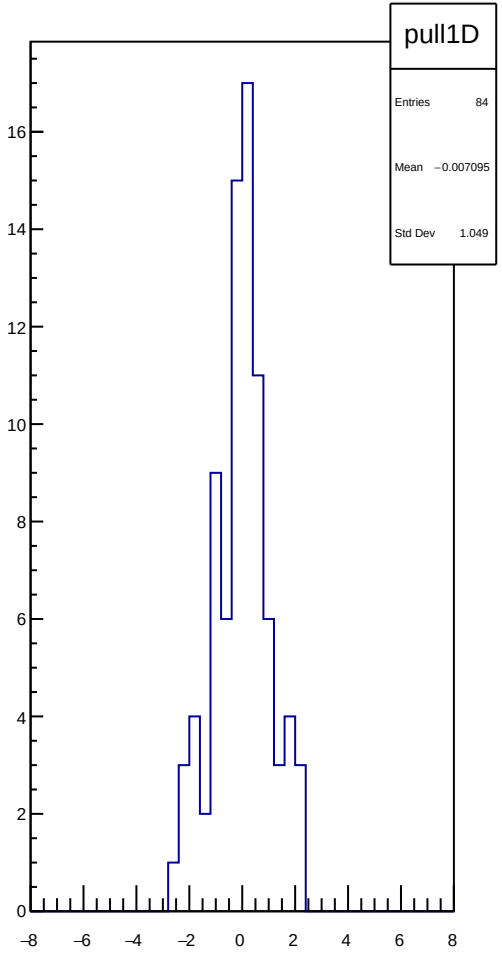

asym_sam_37_avg_rms vs run
χ² / ndf 1.029e+04 / 83
p0 447.1 ± 0.3517
560
540
520
500
480
460
440
420
400
380

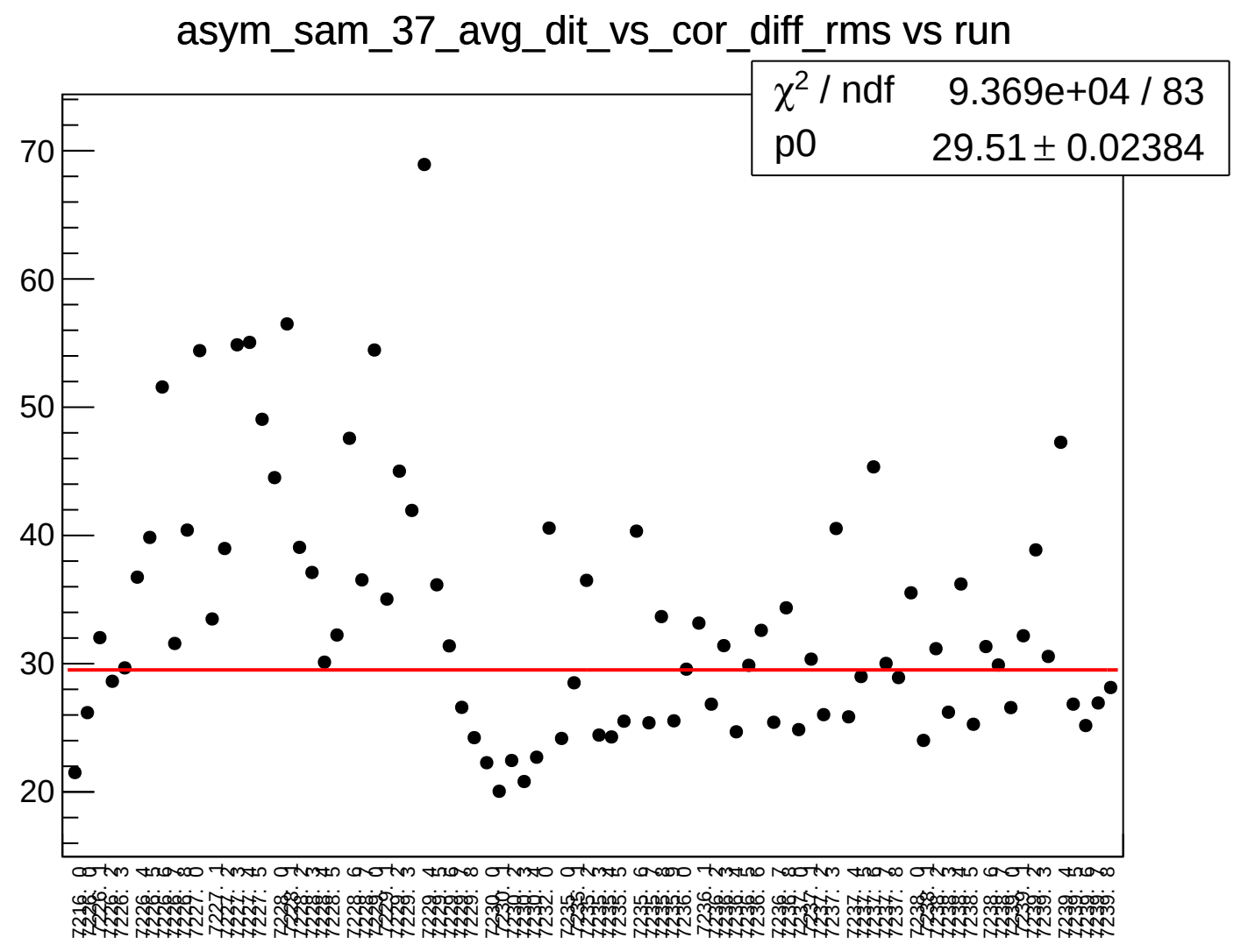

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 88.64 / 83
p0 −5.314e−15 ± 1.237e−14
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
pull
Entries 84
Mean 95.68
Std Dev 0
3
2
1
0
−1
−2

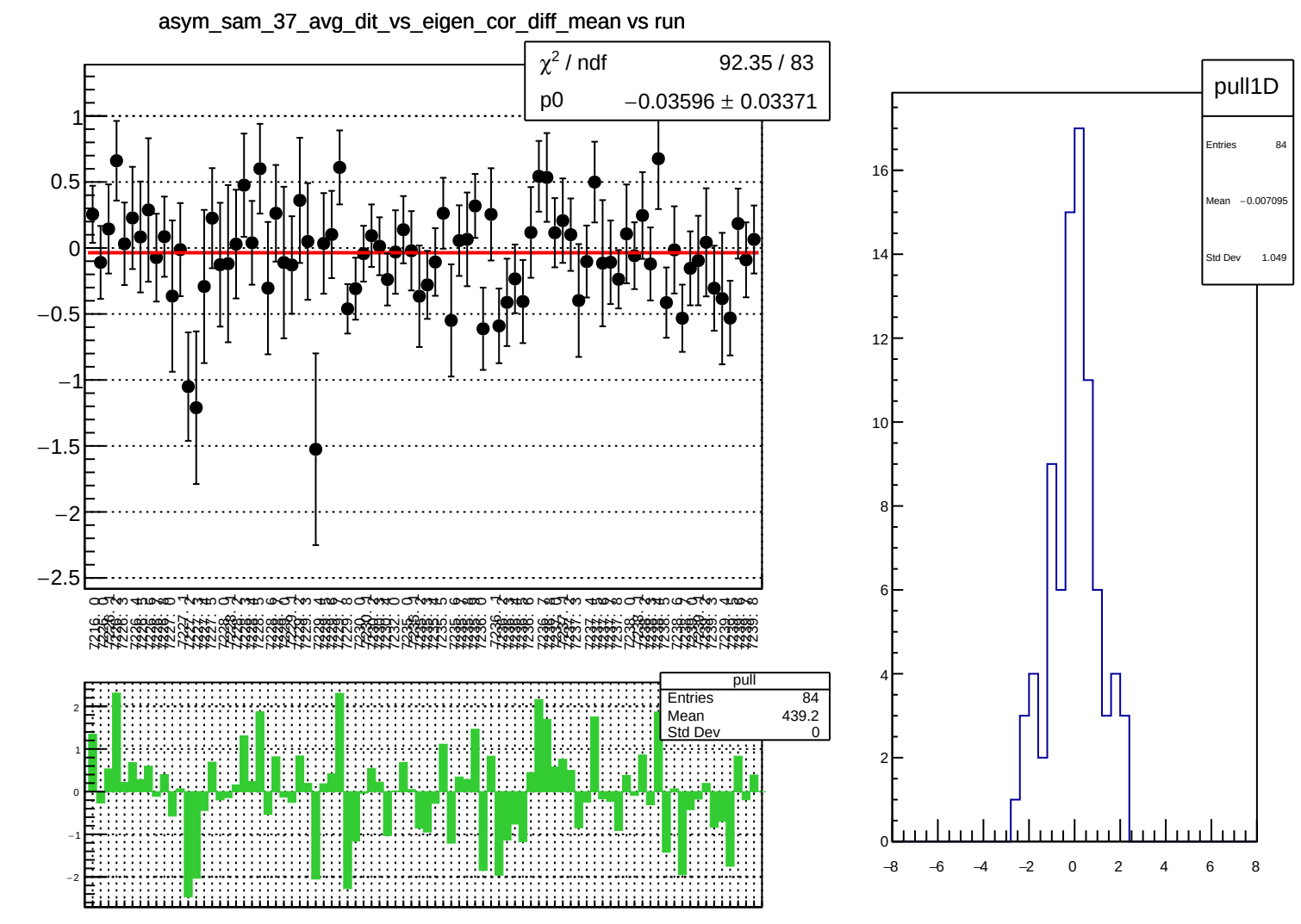

pull1D
Entries 84
Mean 0.07203
Std Dev 1.025
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

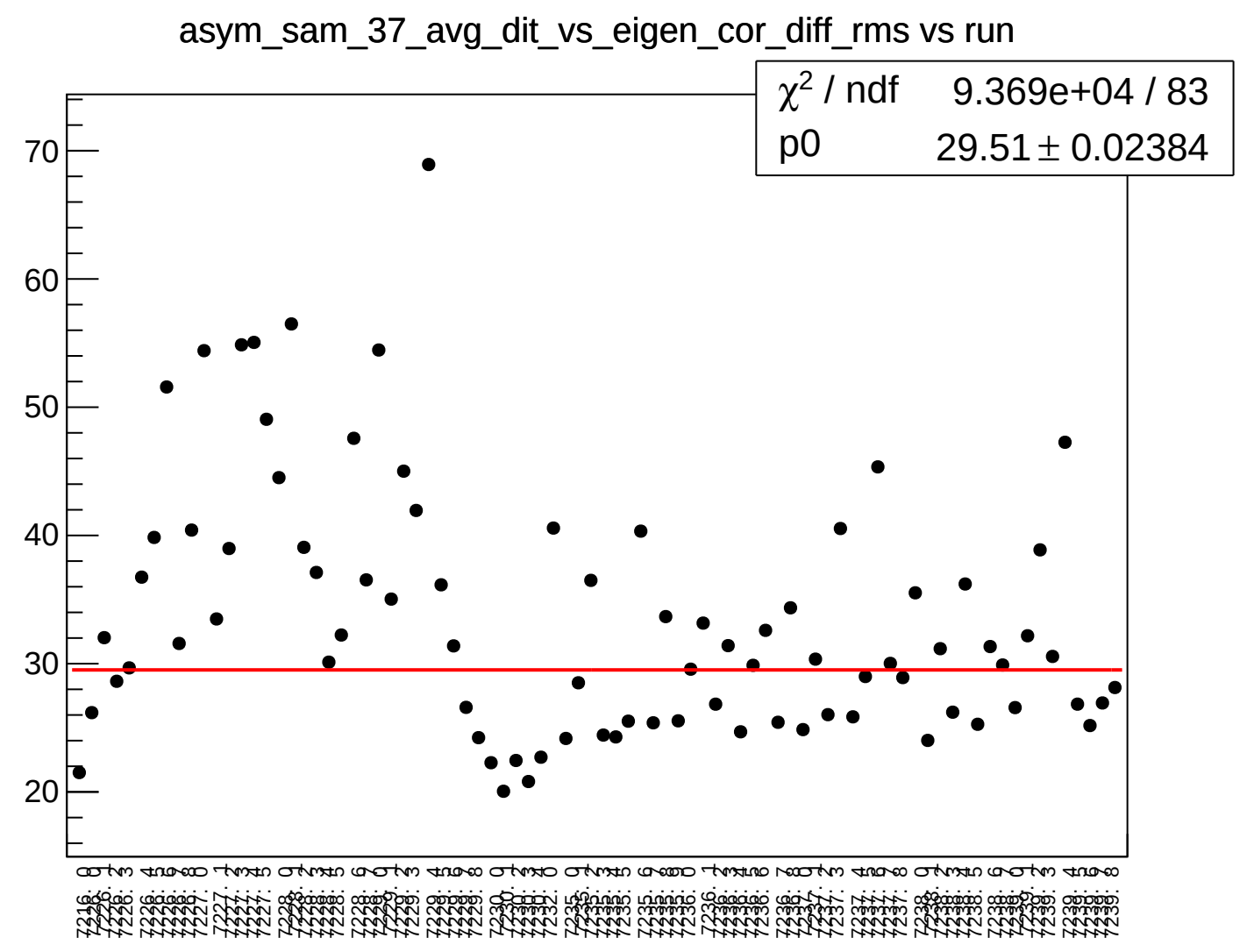

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.225e+06 / 83
p0 5.543e−12 ± 8.745e−15
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

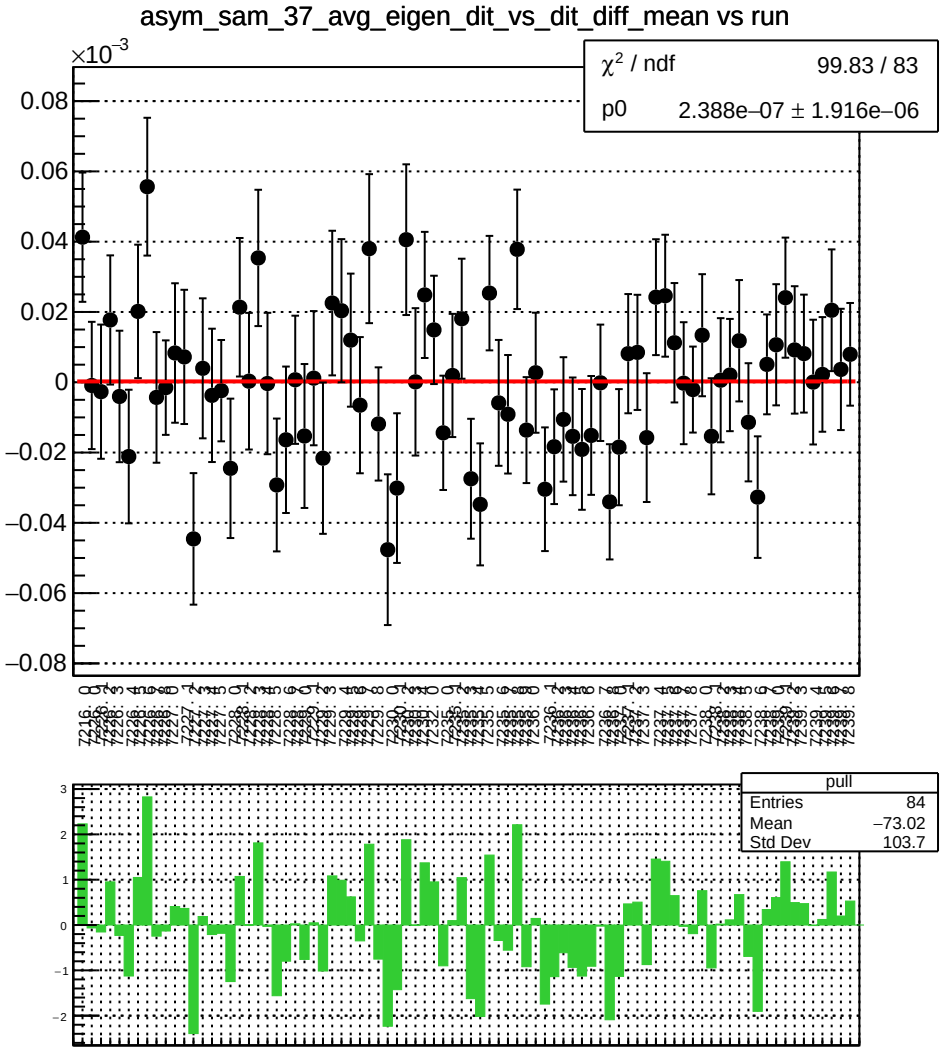

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 92.35 / 83
p0 −0.03596 ± 0.03371
pull
Entries 84
Mean 439.2
Std Dev 0

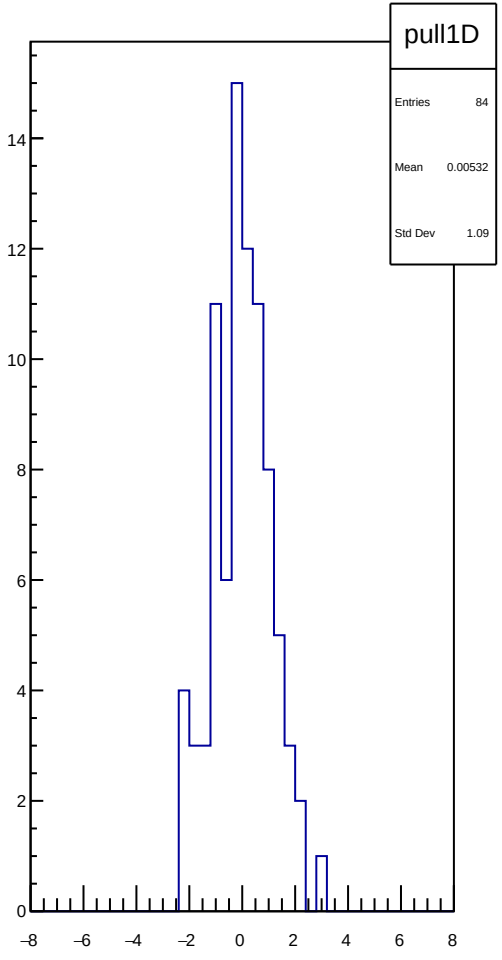

pull1D
Entries 84
Mean −0.007095
Std Dev 1.049

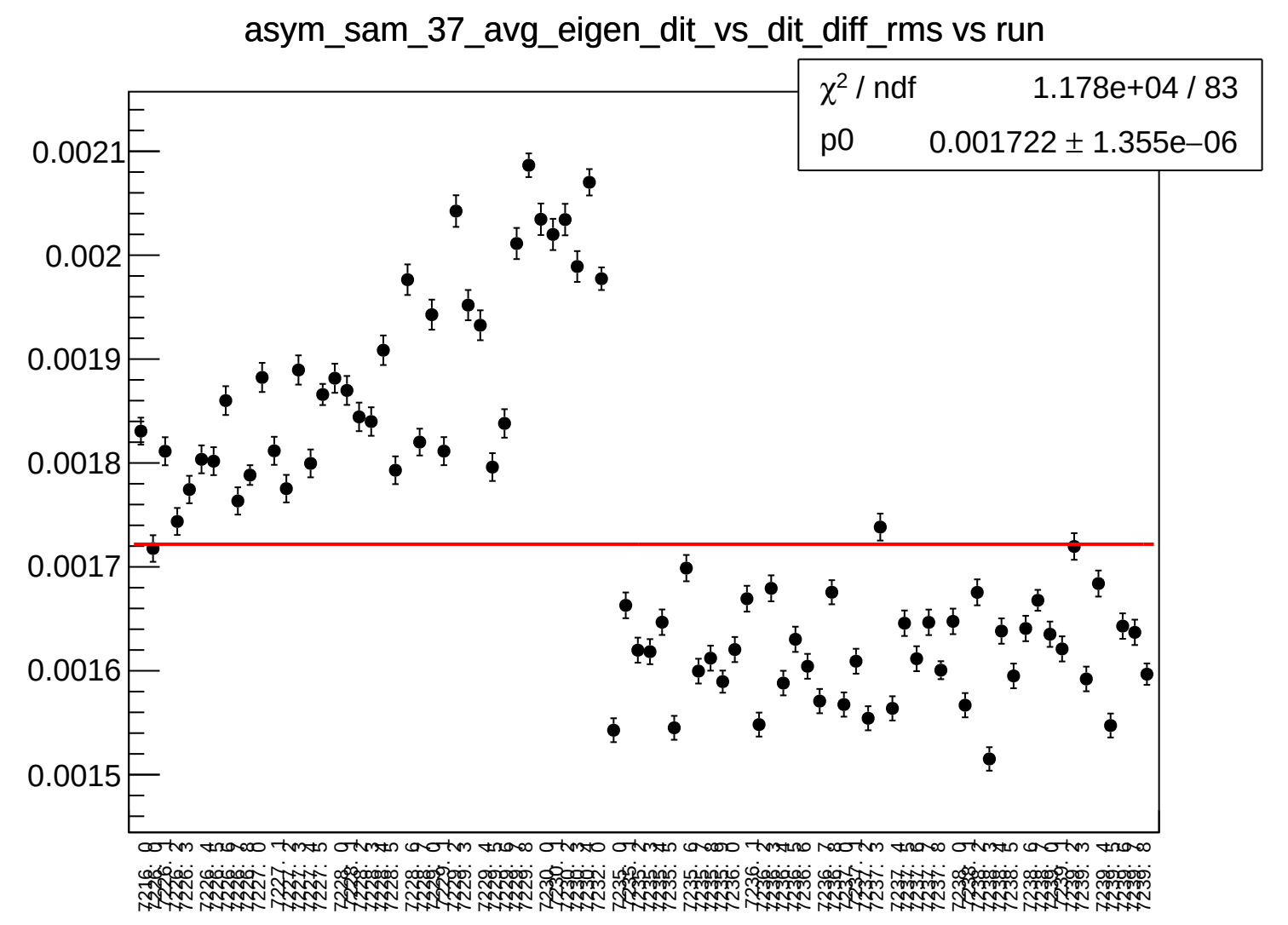

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.369e+04 / 83
p0 29.51 ± 0.02384
70
60
50
40
30
20

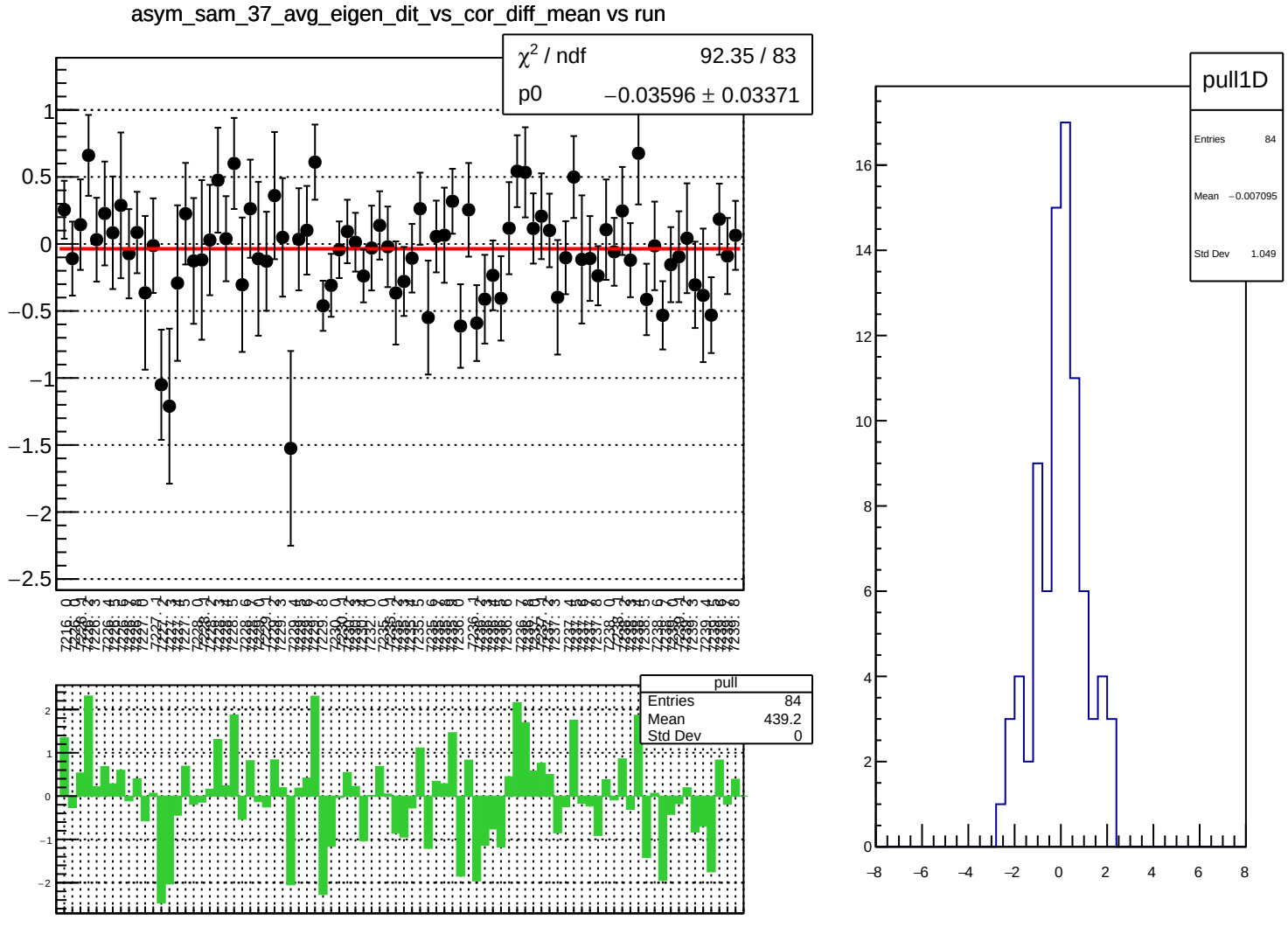

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.35 / 83
p0 −0.03596 ± 0.03371
pull
Entries 84
Mean 439.2
Std Dev 0
pull1D
Entries 84
Mean −0.007095
Std Dev 1.049

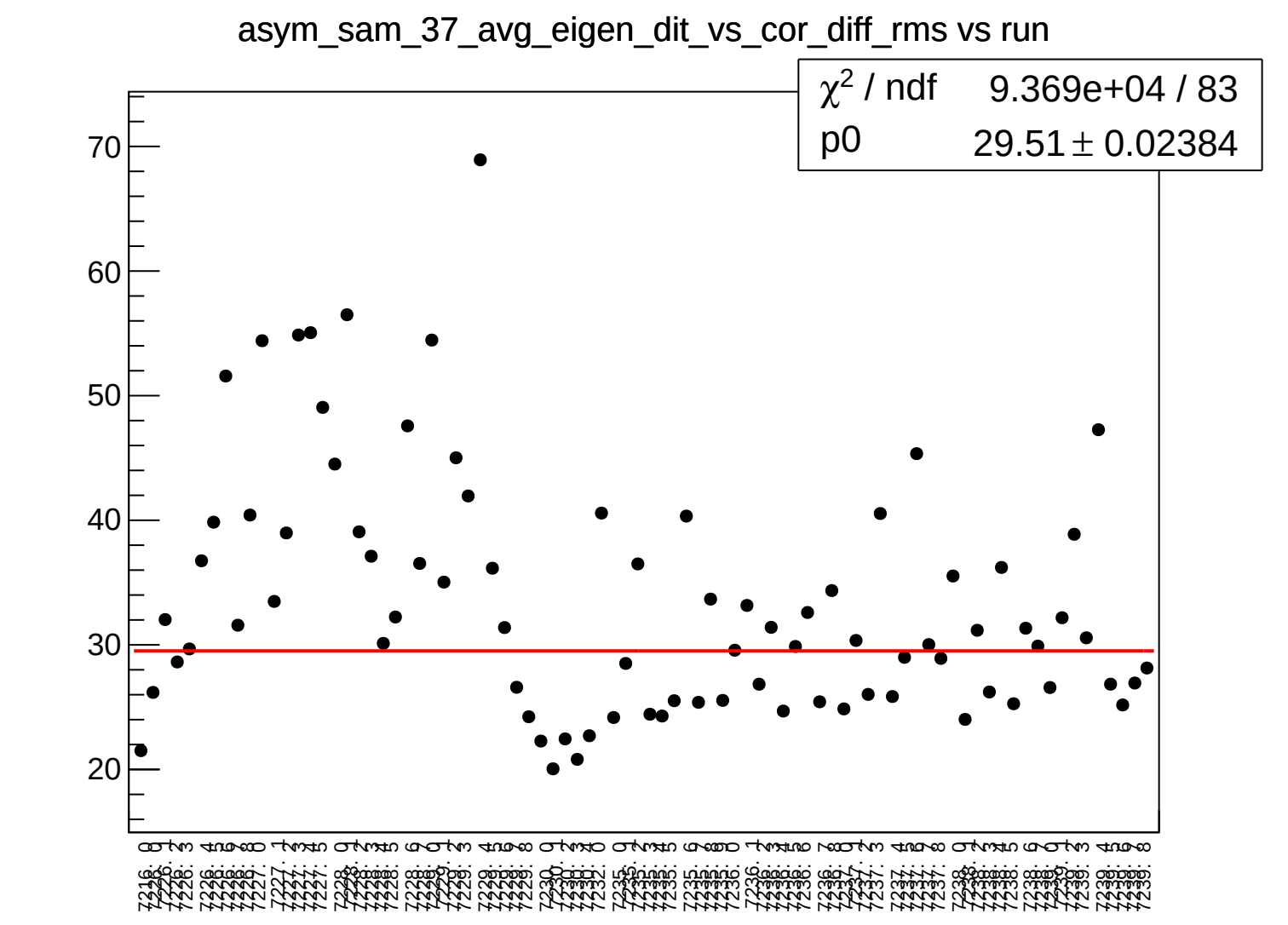

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 9.369e+04 / 83
p0 29.51 ± 0.02384
70
60
50
40
30
20

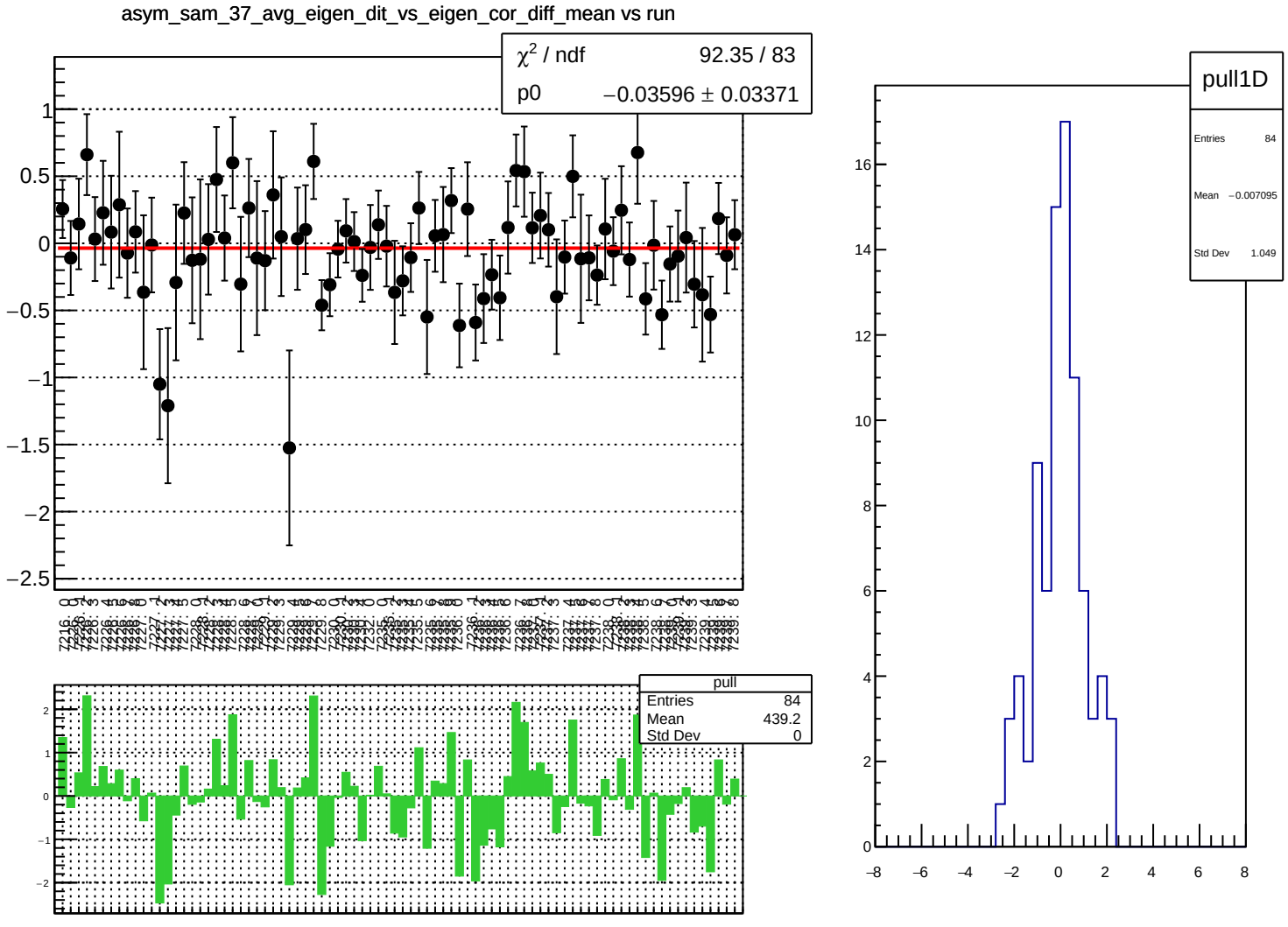

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.83 / 83
p0 2.388e−07 ± 1.916e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 84
Mean −73.02
Std Dev 103.7
3
2
1
0
−1
−2

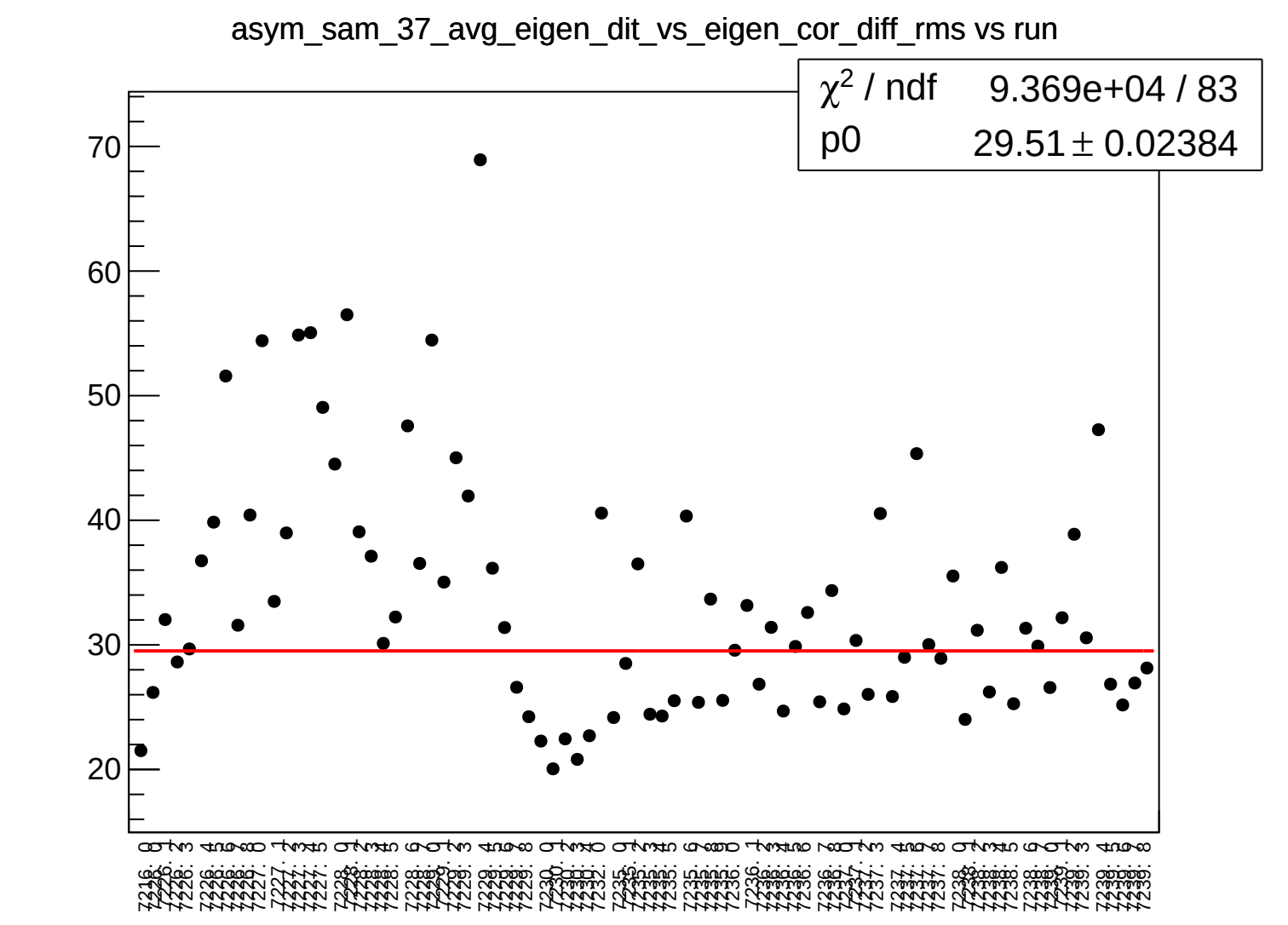

pull1D
Entries 84
Mean 0.00532
Std Dev 1.09
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

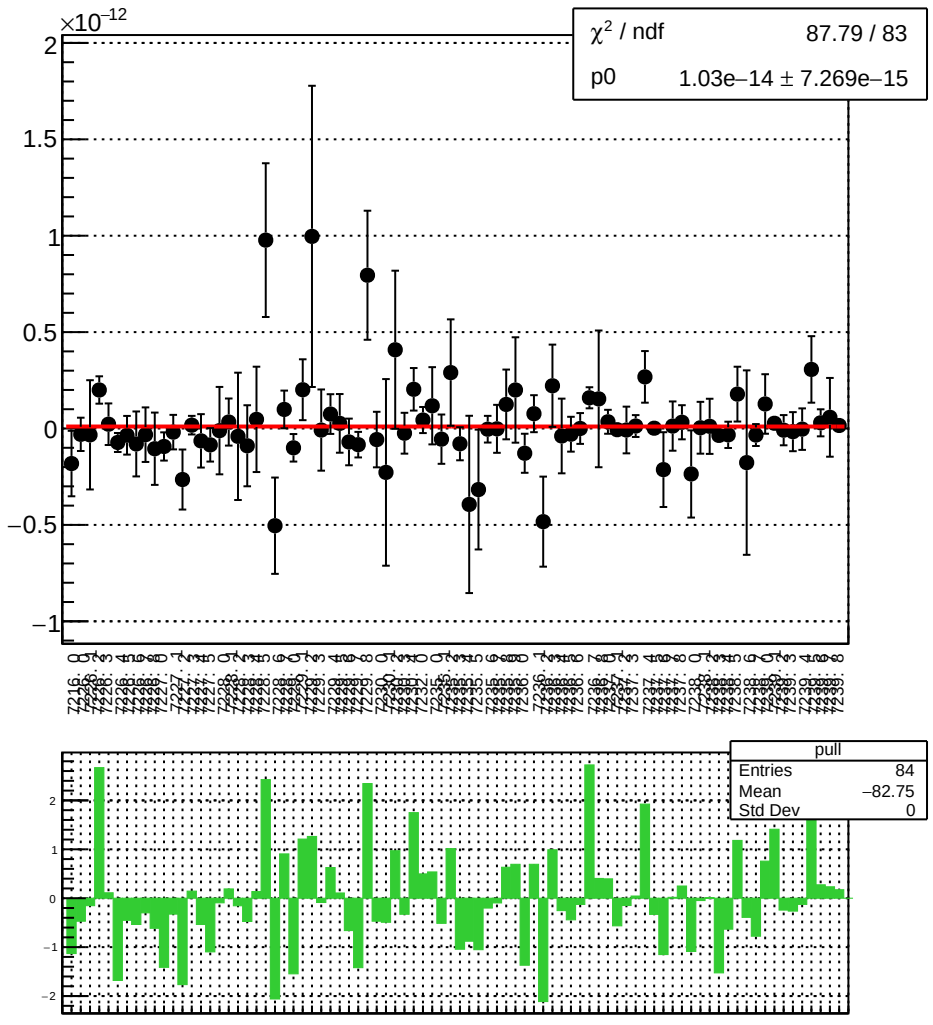

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.178e+04 / 83
p0 0.001722 ± 1.355e−06
0.0021
0.002
0.0019
0.0018
0.0017
0.0016
0.0015

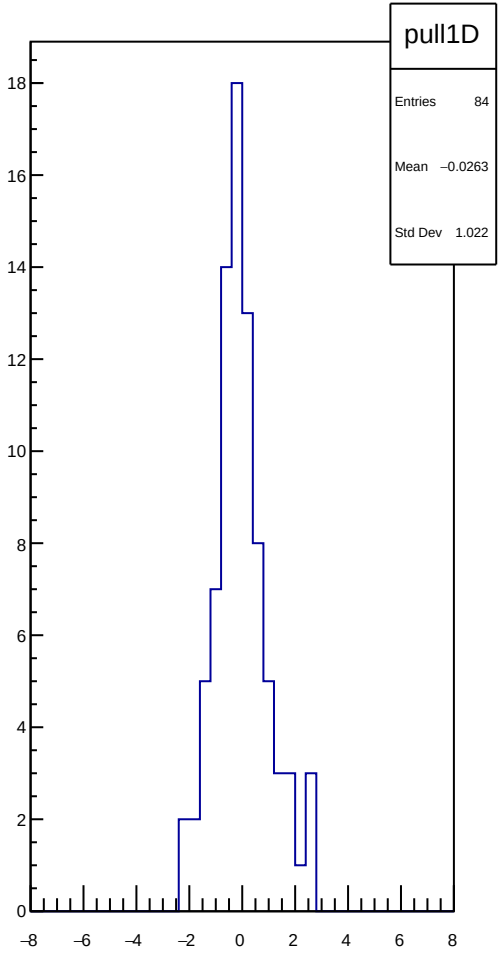

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.35 / 83
p0 −0.03596 ± 0.03371
pull
Entries 84
Mean 439.2
Std Dev 0
pull1D
Entries 84
Mean −0.007095
Std Dev 1.049

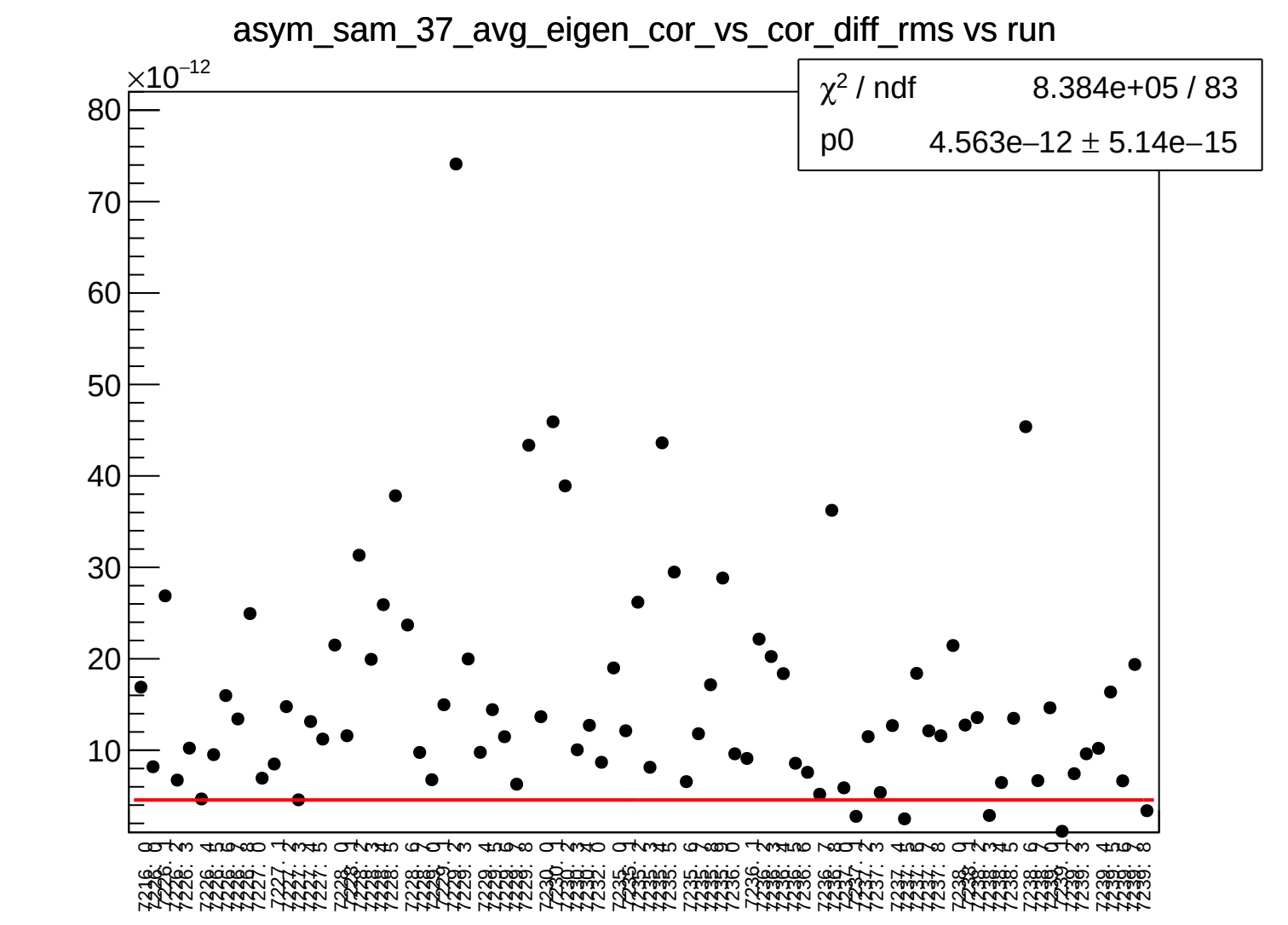

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.369e+04 / 83
p0 29.51 ± 0.02384
70
60
50
40
30
20

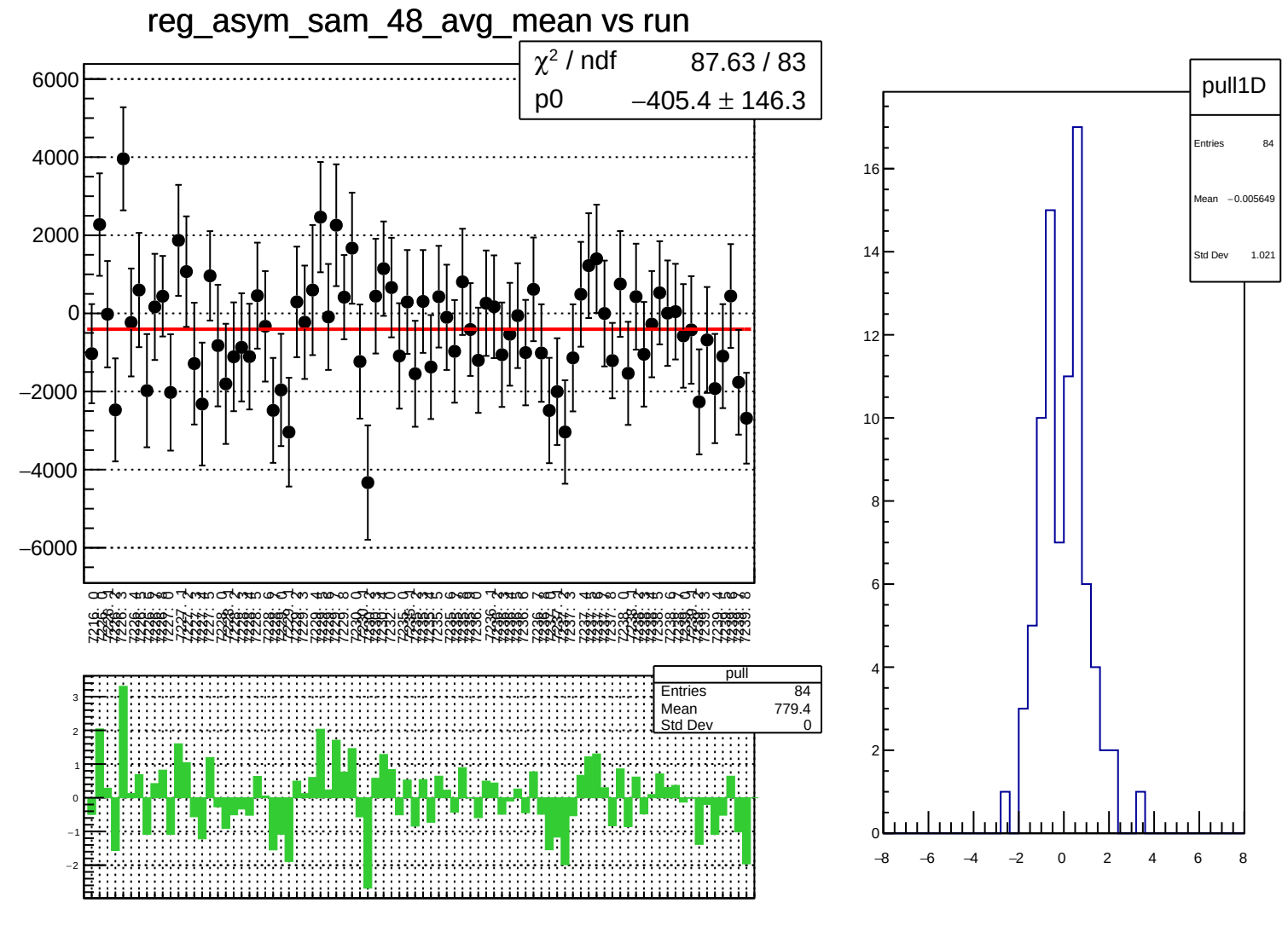

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.35 / 83
p0 −0.03596 ± 0.03371
pull
Entries 84
Mean 439.2
Std Dev 0
pull1D
Entries 84
Mean −0.007095
Std Dev 1.049

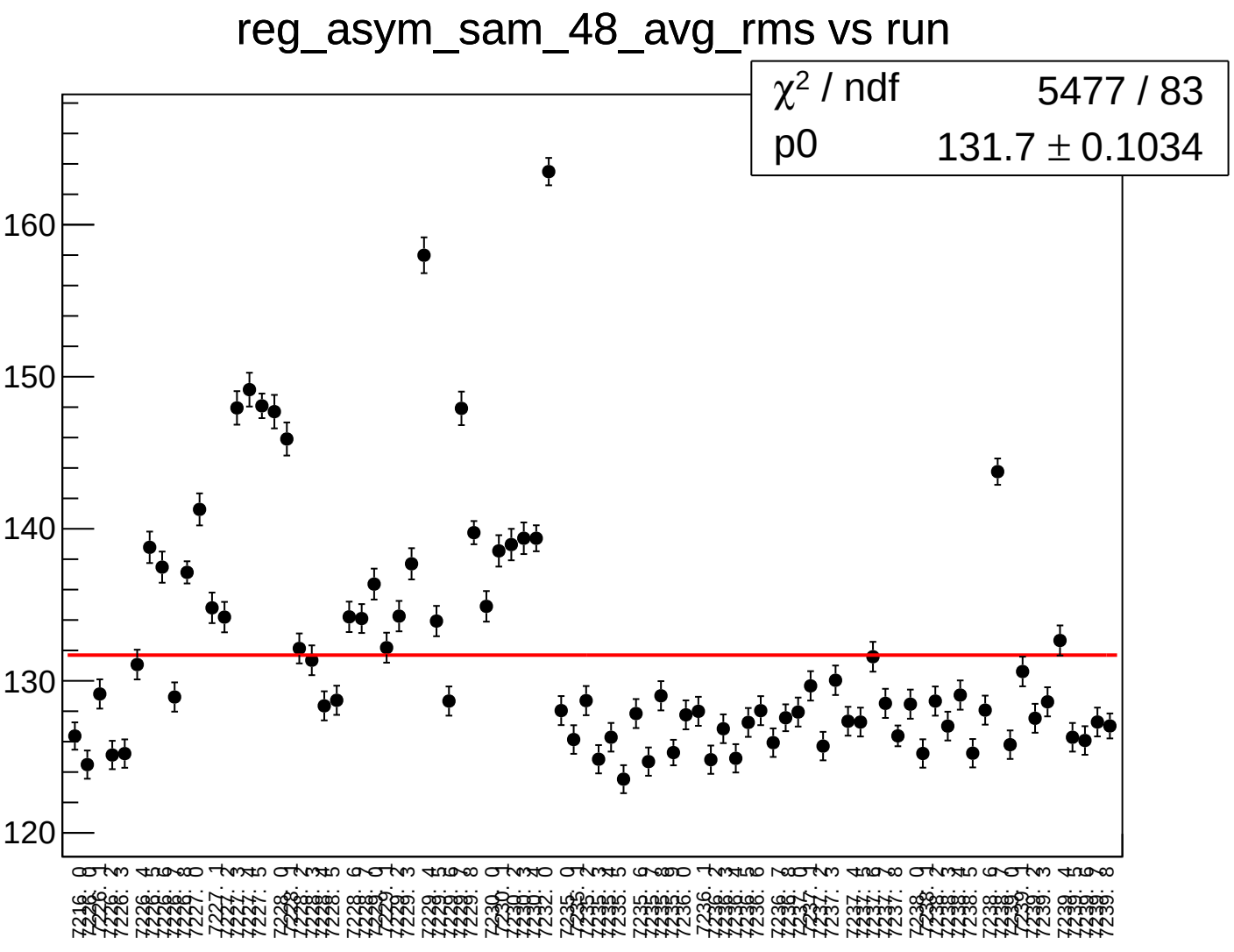

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 9.369e+04 / 83
p0 29.51 ± 0.02384
70
60
50
40
30
20

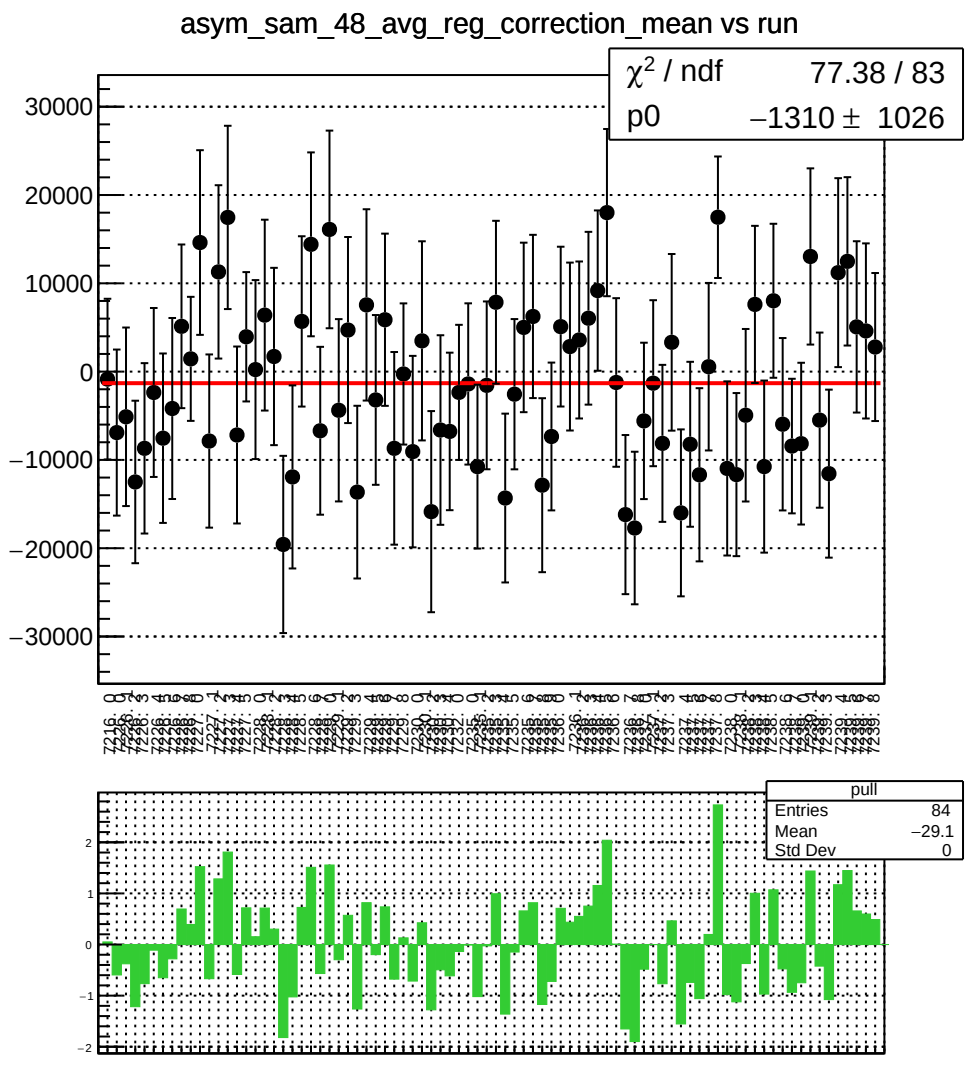

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.79 / 83
p0 1.03e−14 ± 7.269e−15
pull
Entries 84
Mean −82.75
Std Dev 0

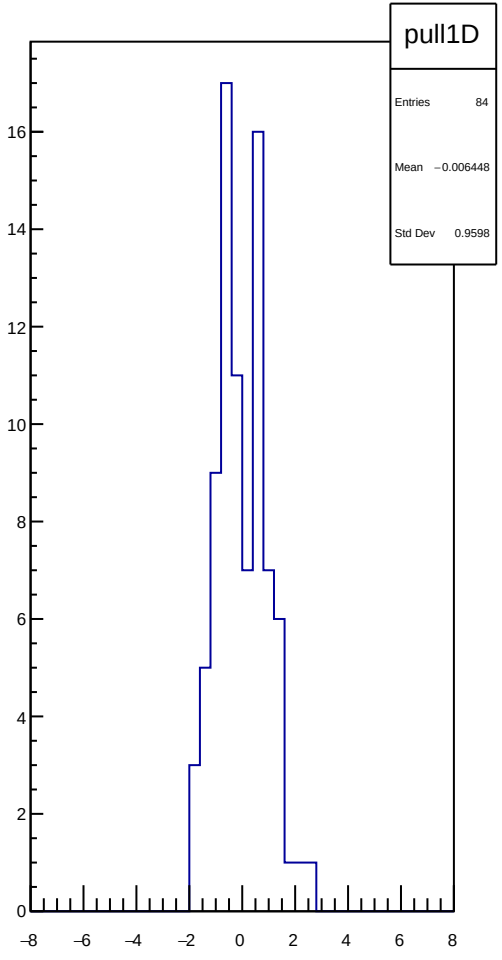

pull1D
Entries 84
Mean −0.0263
Std Dev 1.022

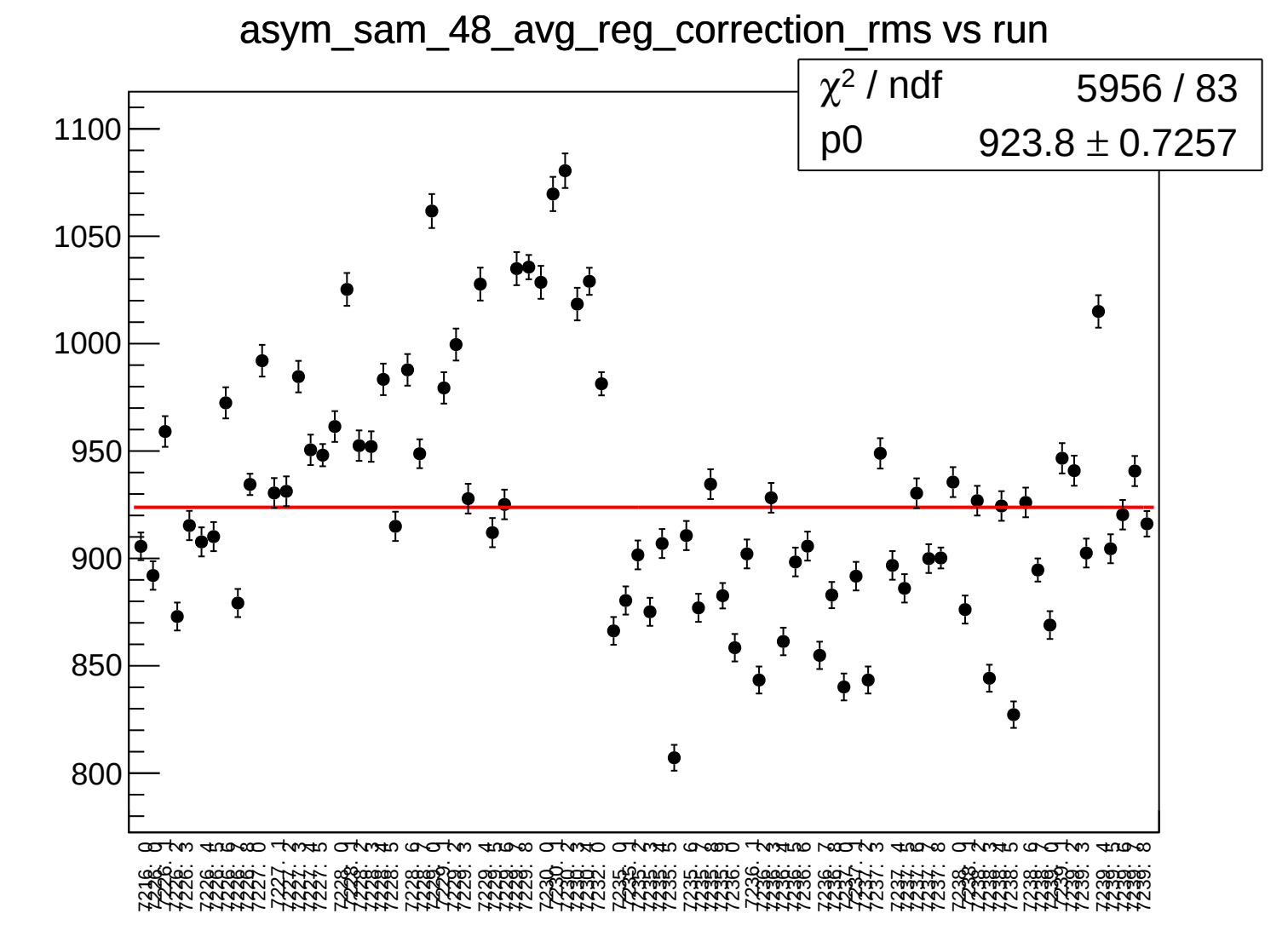

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 8.384e+05 / 83
p0 4.563e−12 ± 5.14e−15
80
70
60
50
40
30
20
10

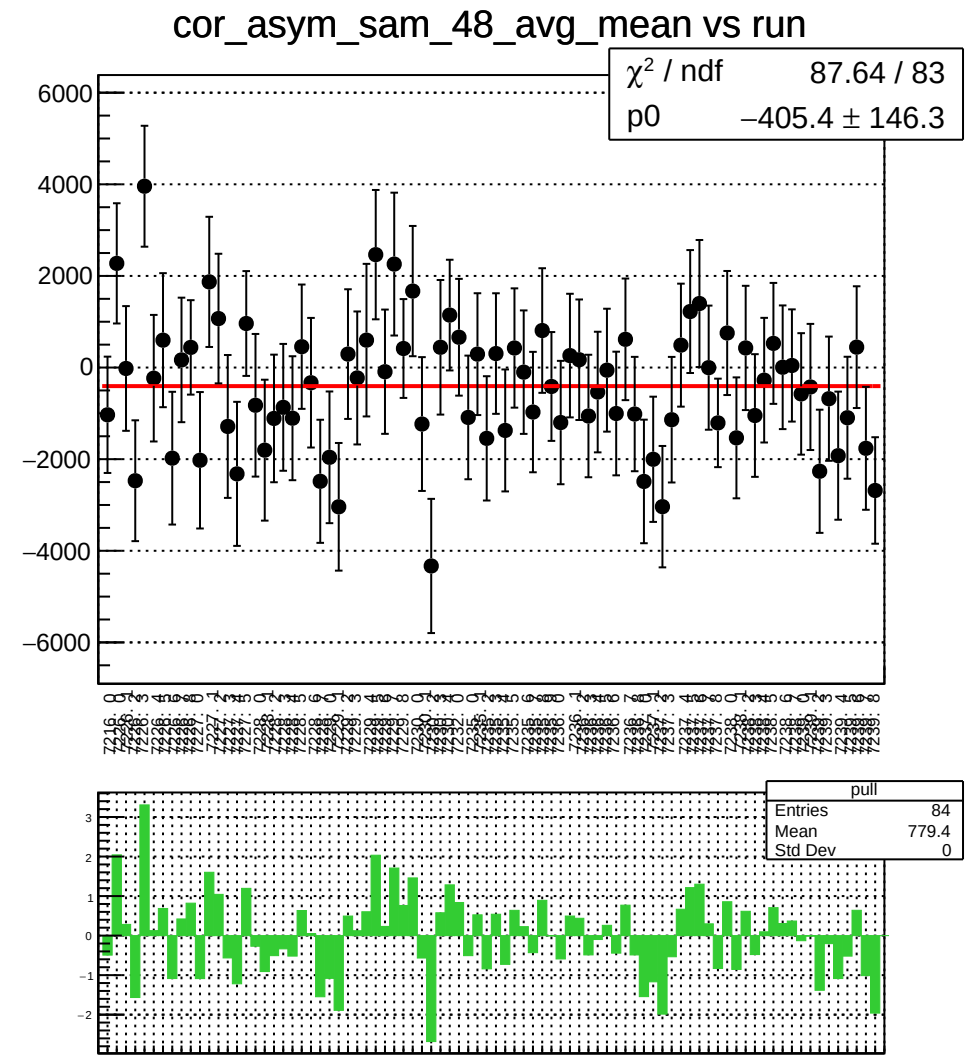

reg_asym_sam_48_avg_mean vs run
χ² / ndf 87.63 / 83
p0 −405.4 ± 146.3
pull
Entries 84
Mean 779.4
Std Dev 0
pull1D
Entries 84
Mean −0.005649
Std Dev 1.021

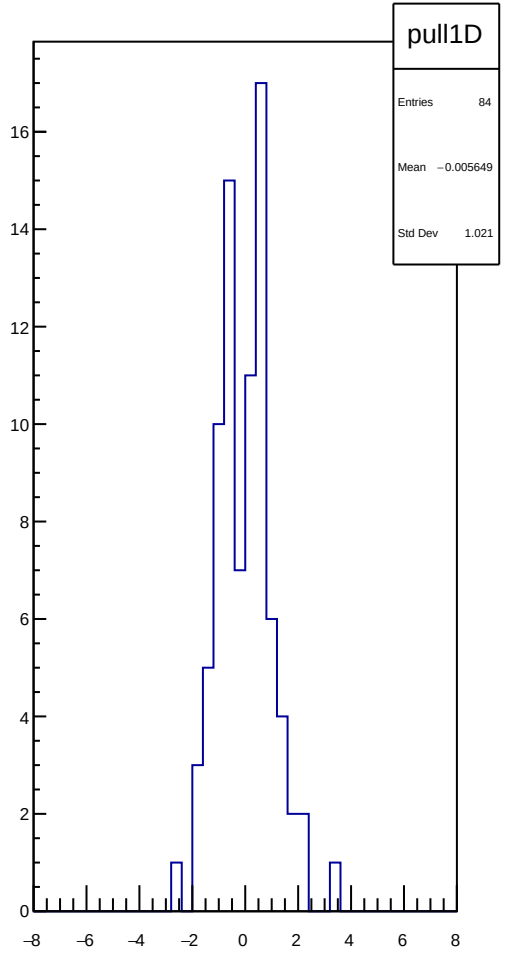

reg_asym_sam_48_avg_rms vs run
χ² / ndf 5477 / 83
p0 131.7 ± 0.1034
160
150
140
130
120

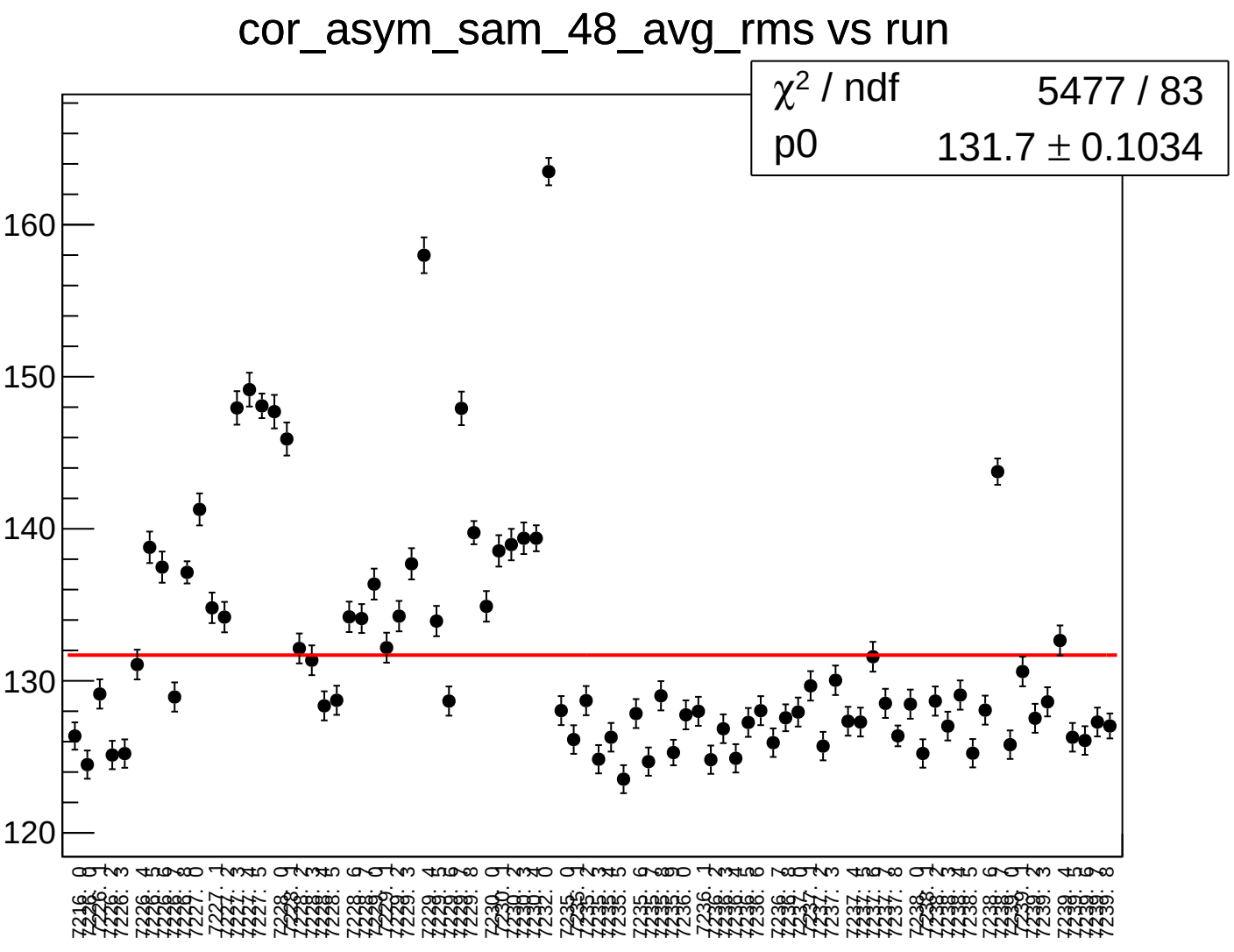

asym_sam_48_avg_reg_correction_mean vs run
χ² / ndf 77.38 / 83
p0 −1310 ± 1026
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −29.1
Std Dev 0
2
1
0
−1
−2

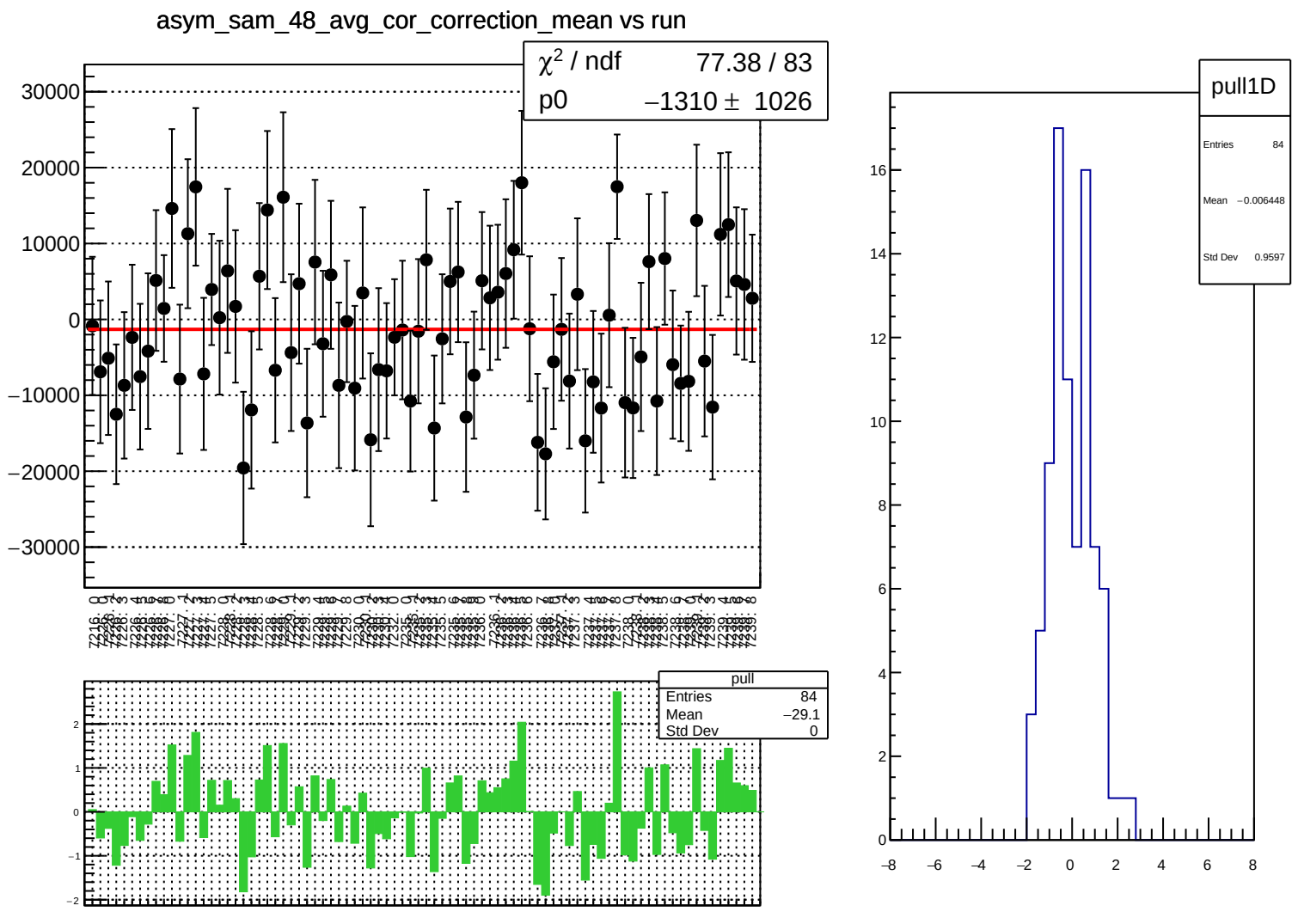

pull1D
Entries 84
Mean −0.006448
Std Dev 0.9598
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

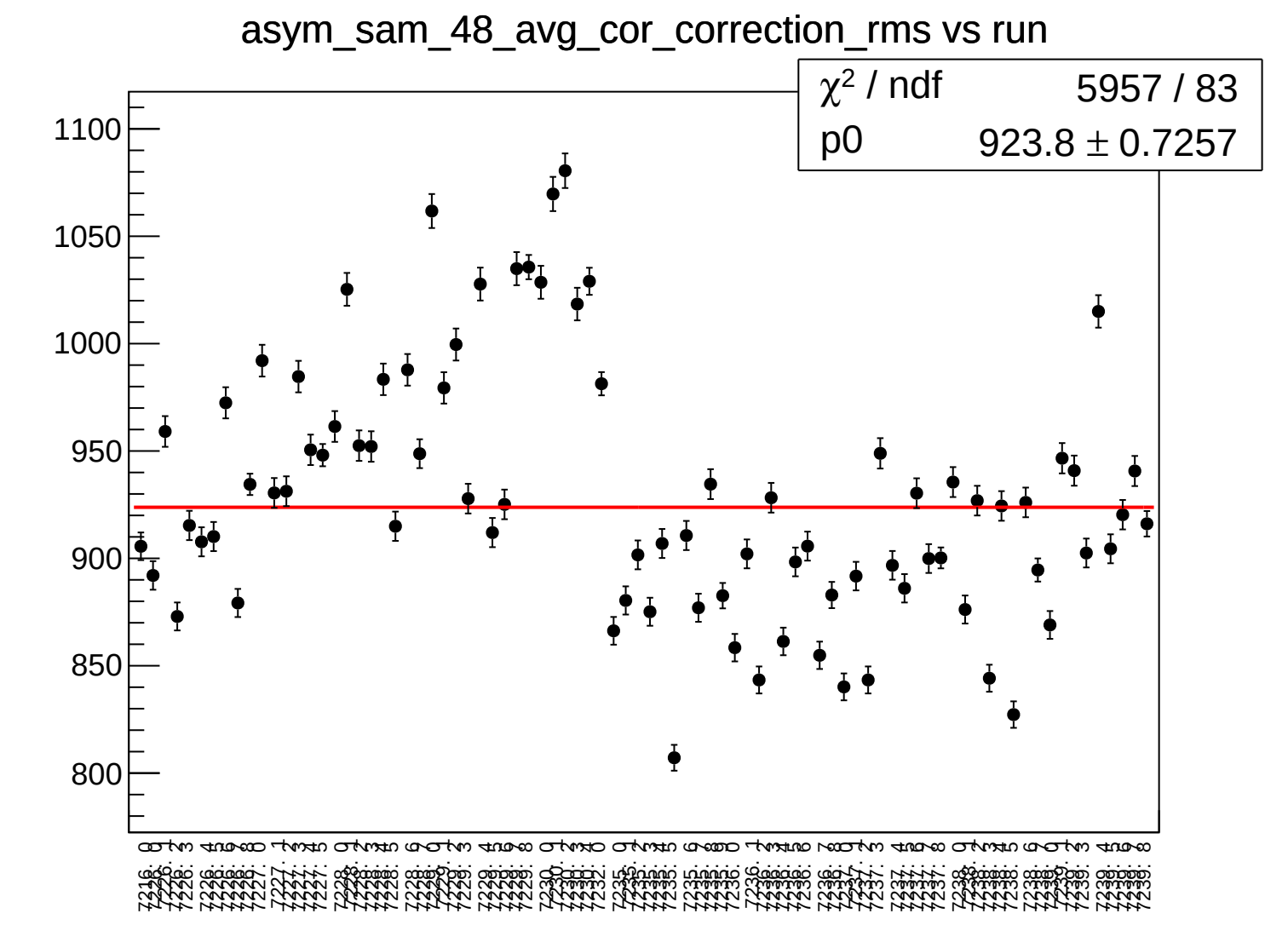

asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 5956 / 83
p0 923.8 ± 0.7257
1100
1050
1000
950
900
850
800

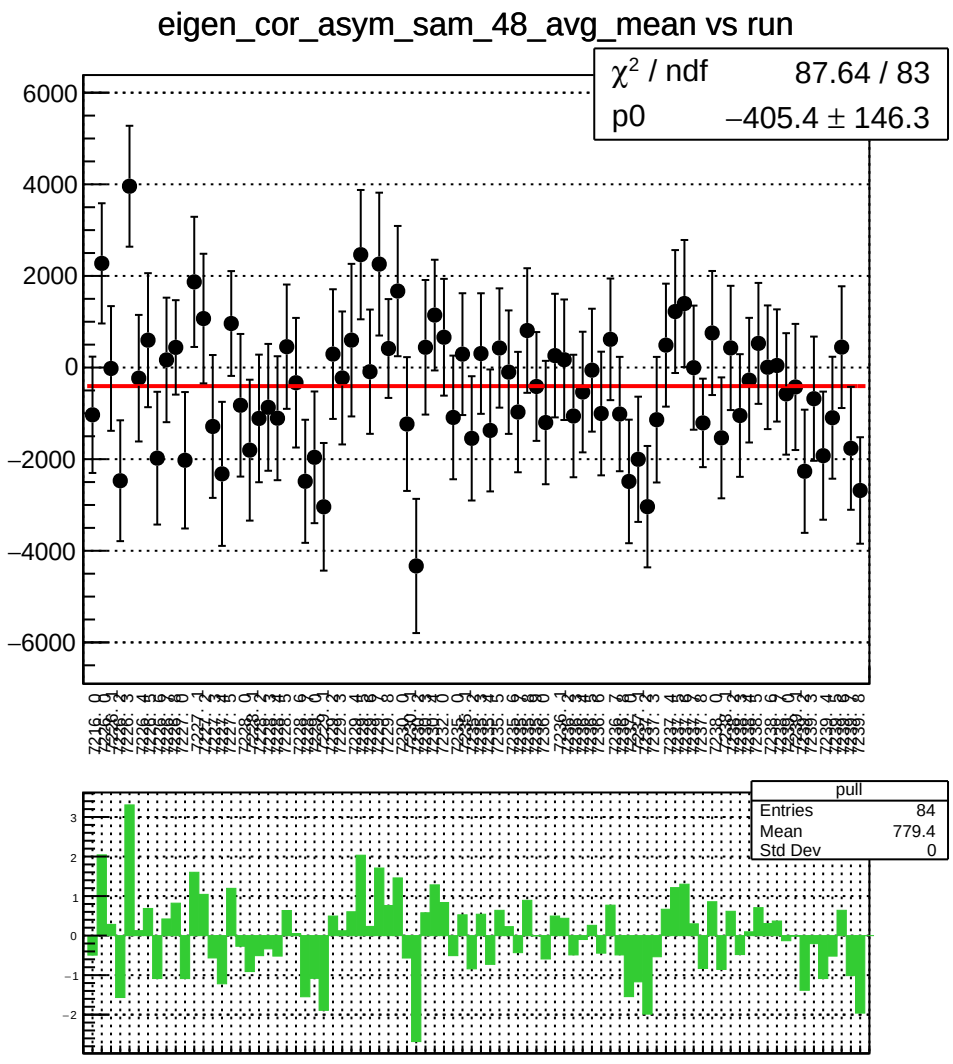

cor_asym_sam_48_avg_mean vs run
χ² / ndf 87.64 / 83
p0 −405.4 ± 146.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 84
Mean 779.4
Std Dev 0
3
2
1
0
−1
−2

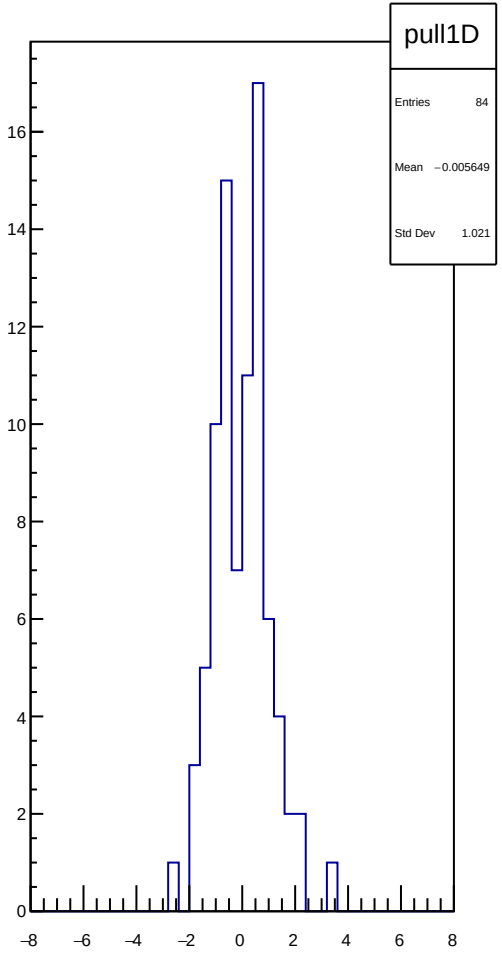

pull1D
Entries 84
Mean −0.005649
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

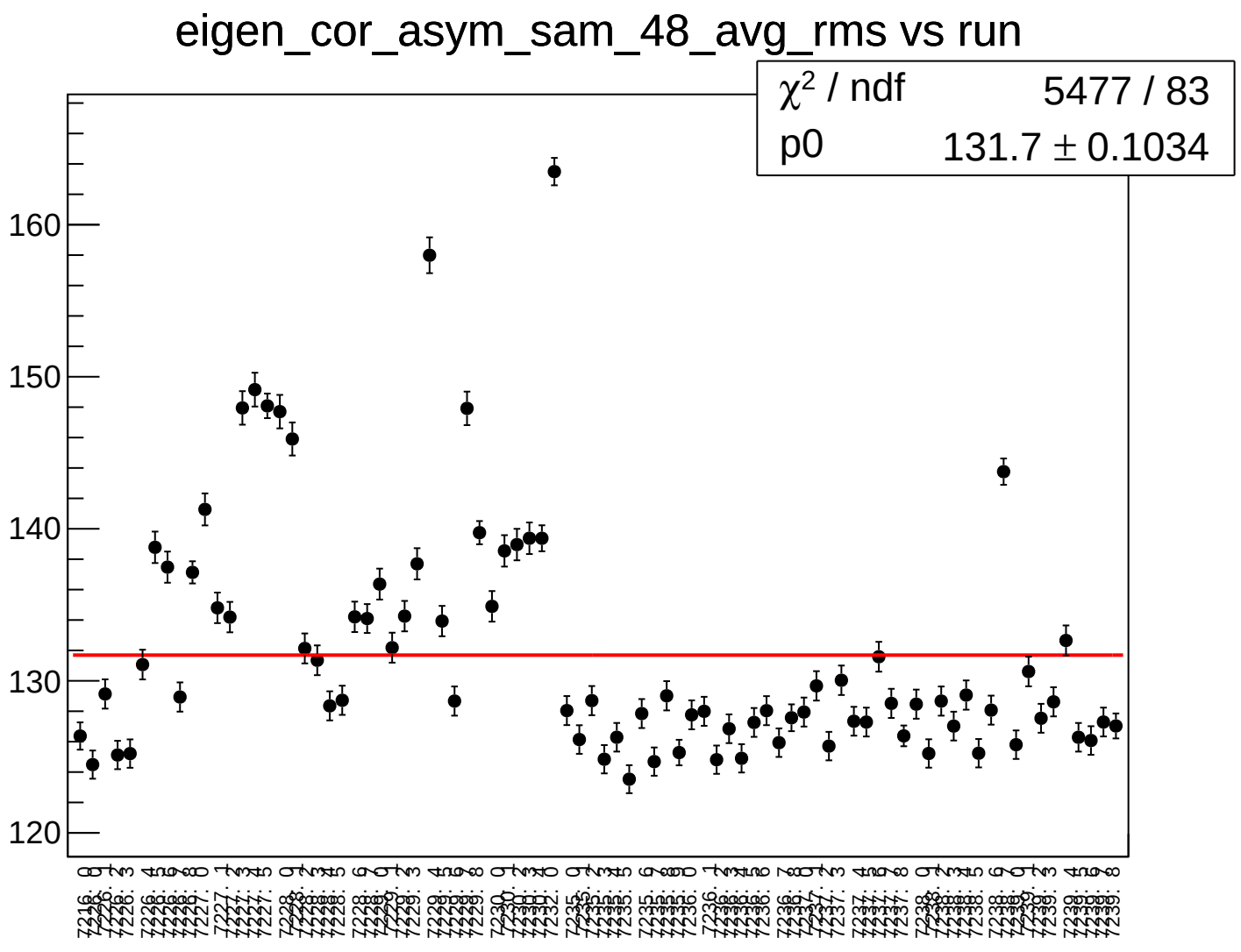

cor_asym_sam_48_avg_rms vs run
χ² / ndf 5477 / 83
p0 131.7 ± 0.1034
160
150
140
130
120

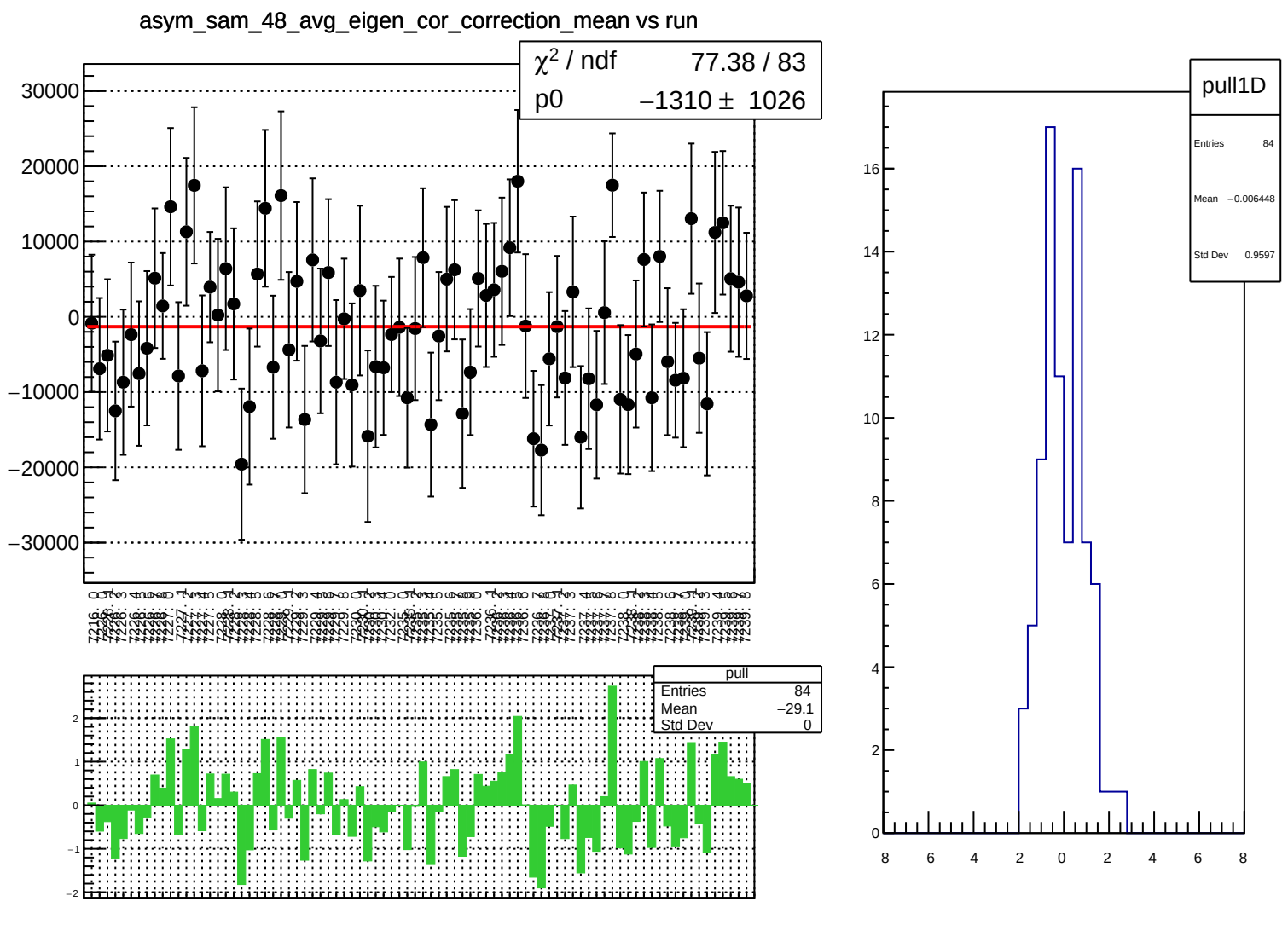

asym_sam_48_avg_cor_correction_mean vs run
χ² / ndf 77.38 / 83
p0 −1310 ± 1026
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −29.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.006448
Std Dev 0.9597
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

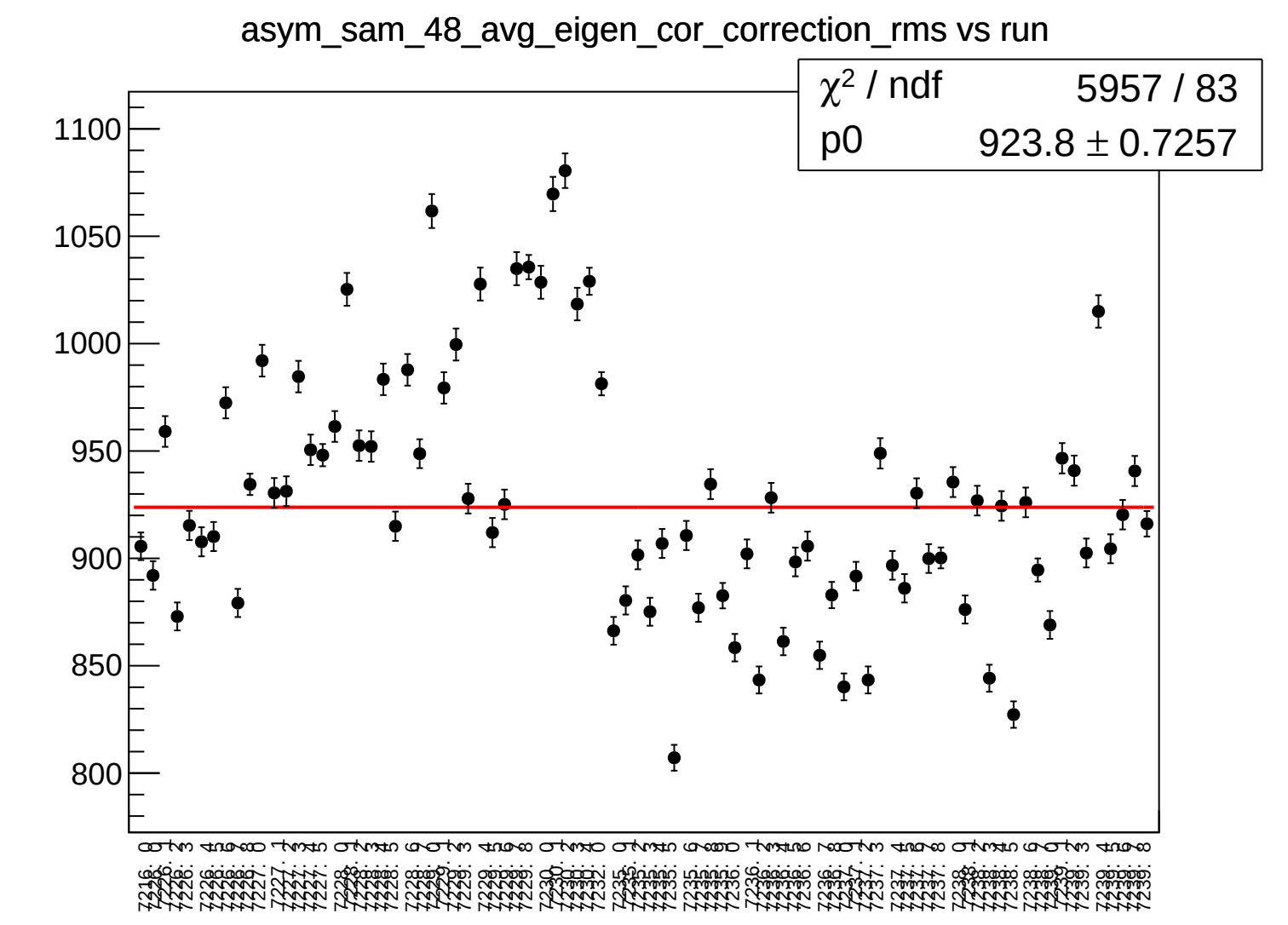

asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 5957 / 83
p0 923.8 ± 0.7257
1100
1050
1000
950
900
850
800

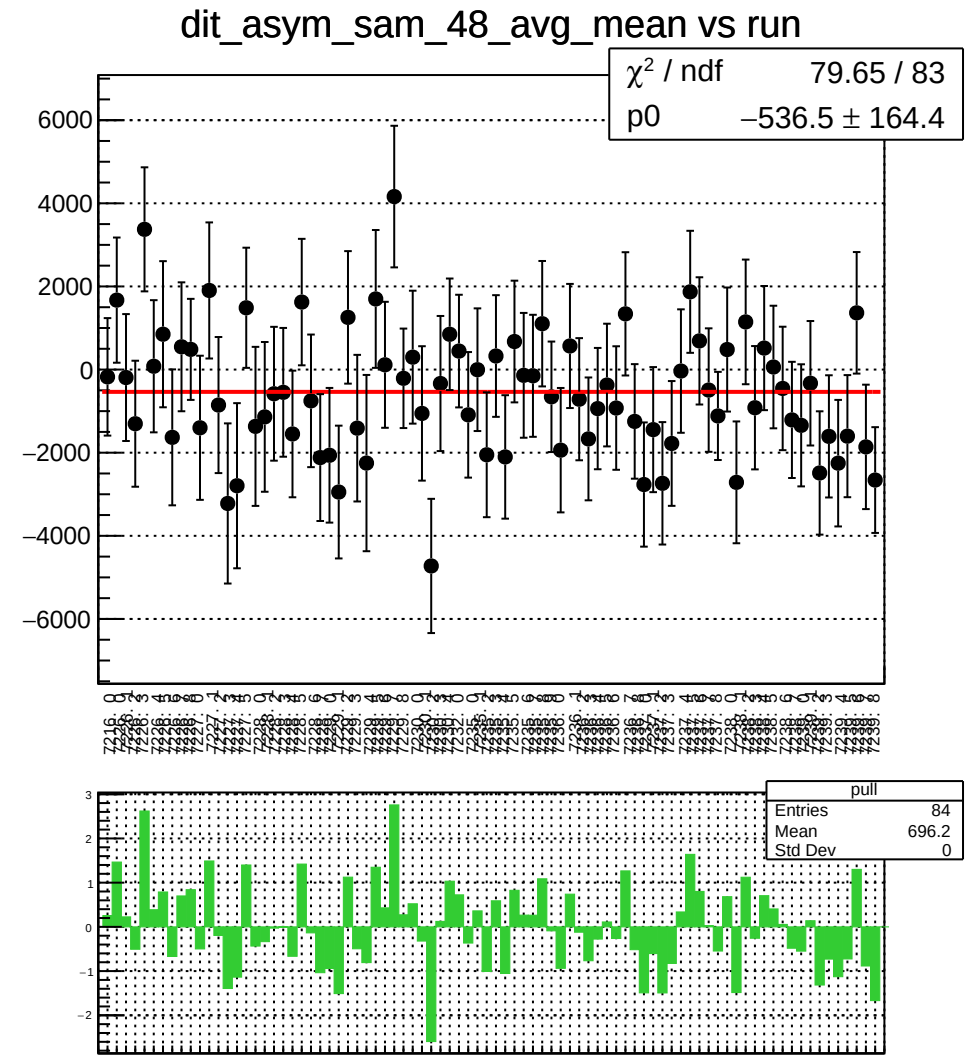

eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 87.64 / 83
p0 −405.4 ± 146.3
pull
Entries 84
Mean 779.4
Std Dev 0

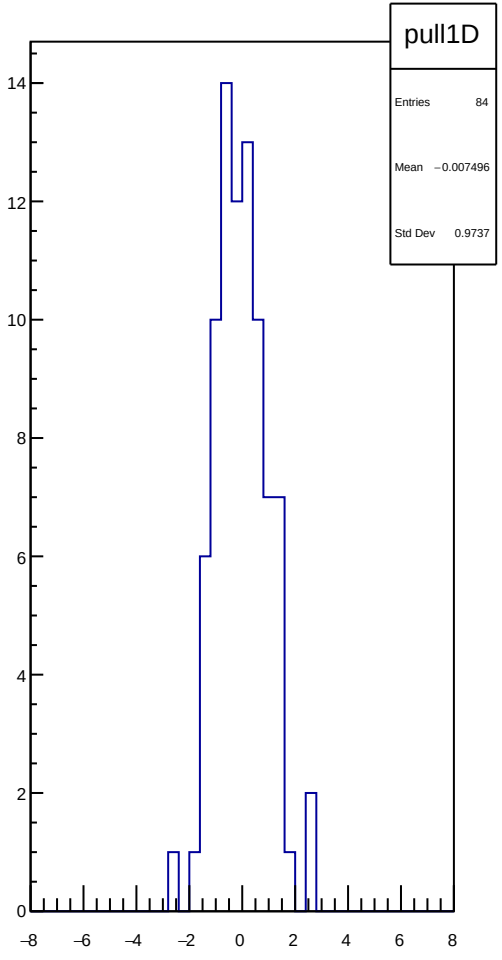

pull1D
Entries 84
Mean −0.005649
Std Dev 1.021

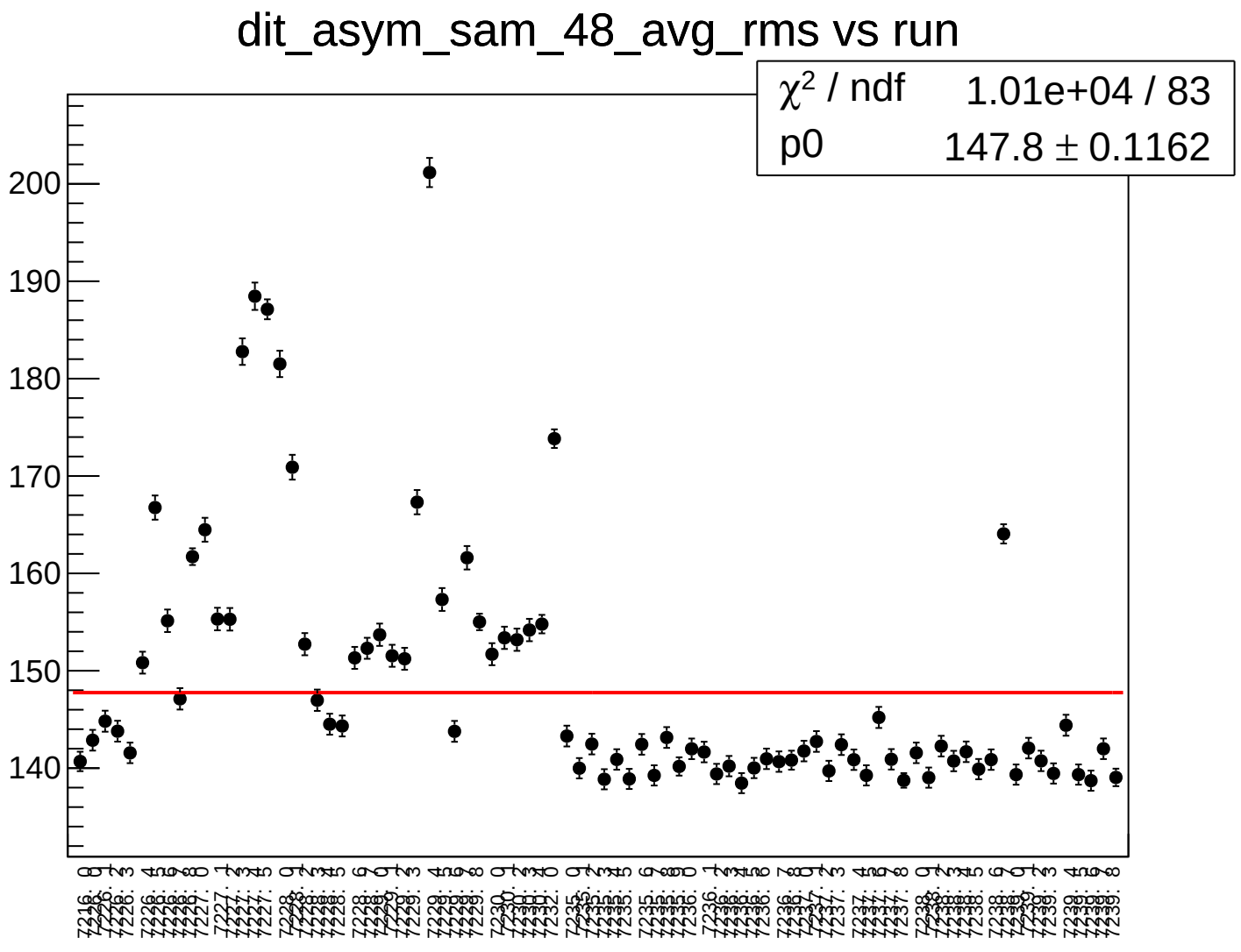

eigen_cor_asym_sam_48_avg_rms vs run
χ² / ndf 5477 / 83
p0 131.7 ± 0.1034
160
150
140
130
120

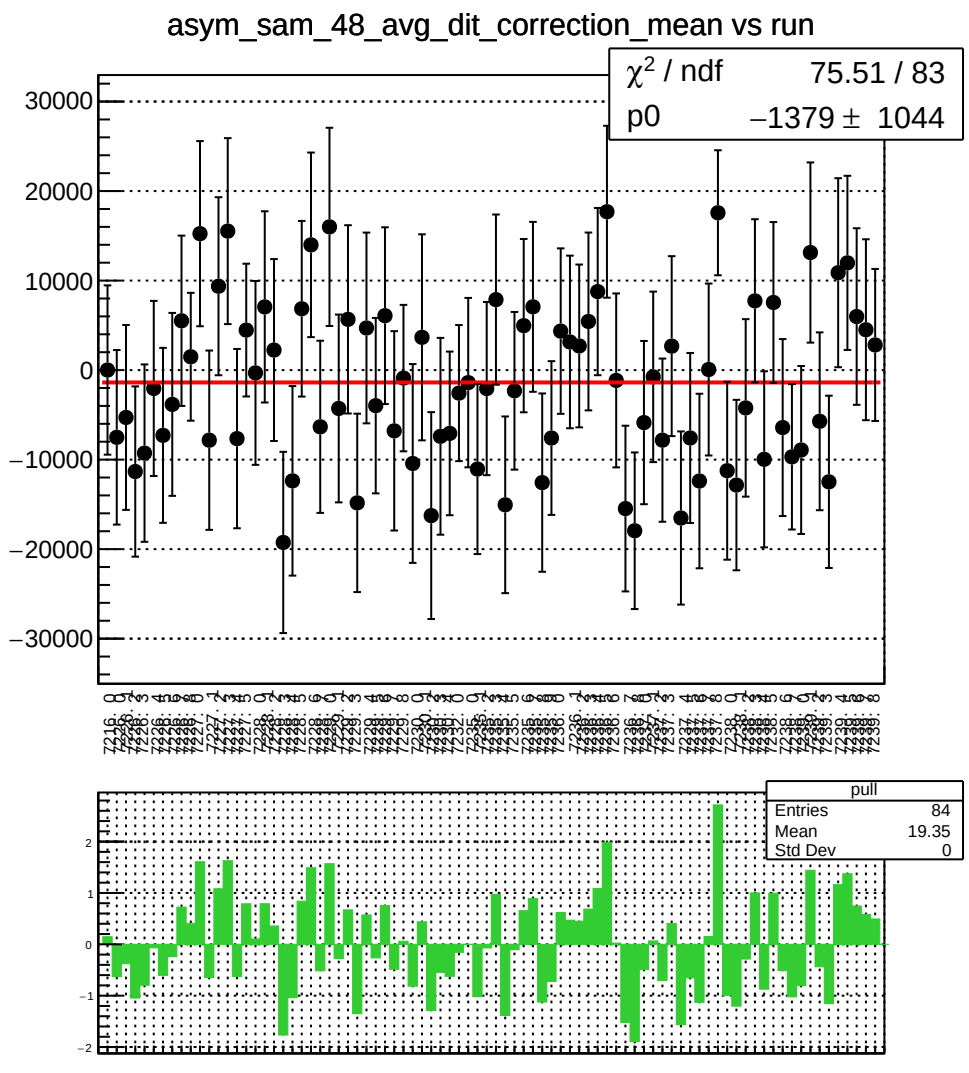

asym_sam_48_avg_eigen_cor_correction_mean vs run
χ² / ndf 77.38 / 83
p0 −1310 ± 1026
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −29.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.006448
Std Dev 0.9597
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

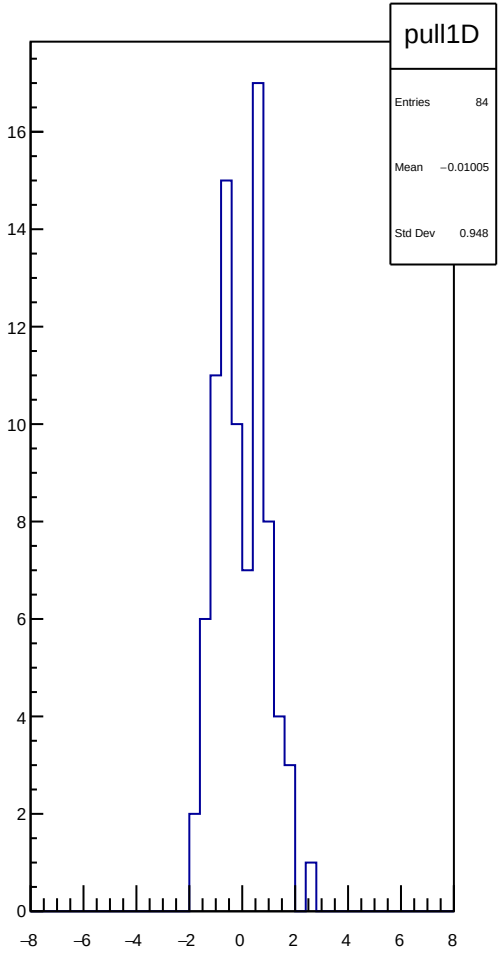

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 5957 / 83
p0 923.8 ± 0.7257
1100
1050
1000
950
900
850
800

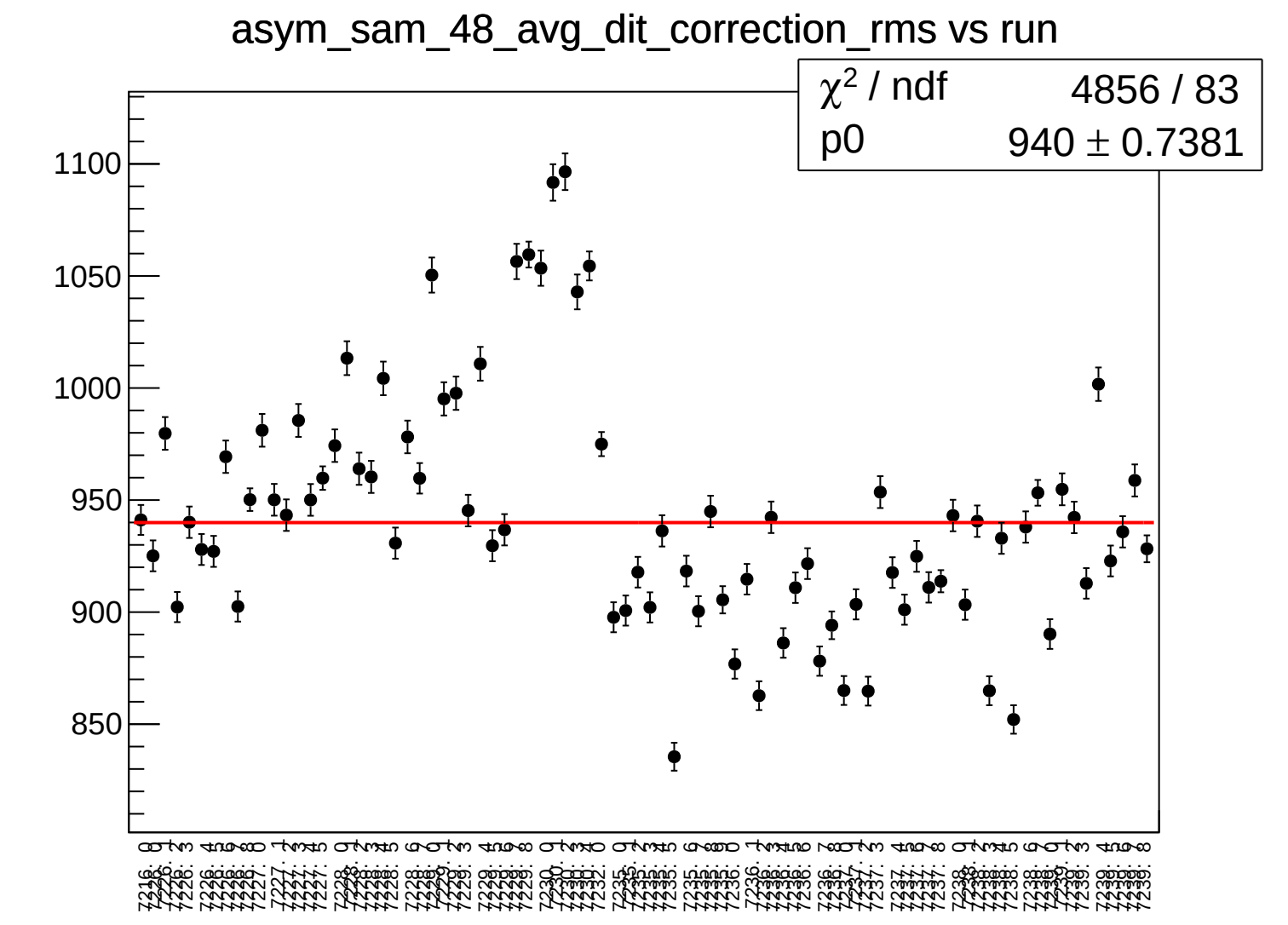

dit_asym_sam_48_avg_mean vs run
χ² / ndf 79.65 / 83
p0 −536.5 ± 164.4
pull
Entries 84
Mean 696.2
Std Dev 0

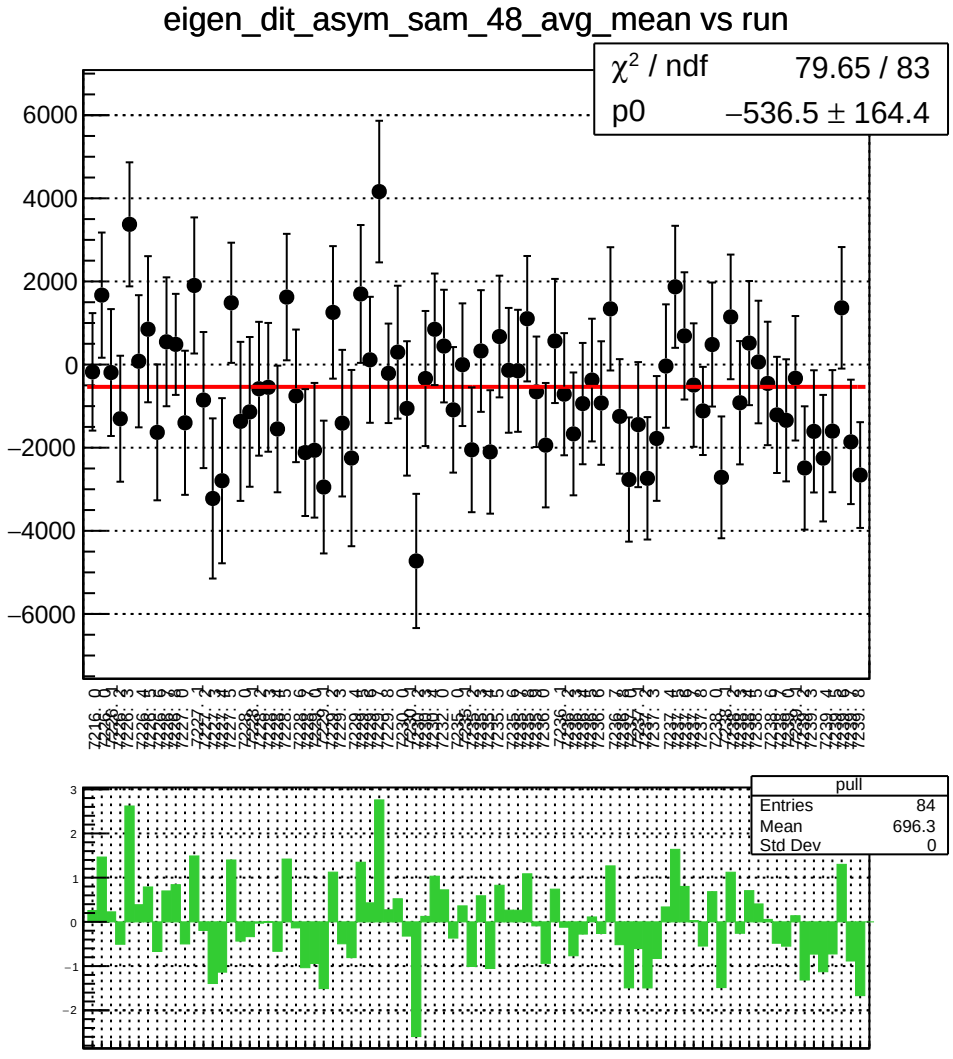

pull1D
Entries 84
Mean −0.007496
Std Dev 0.9737

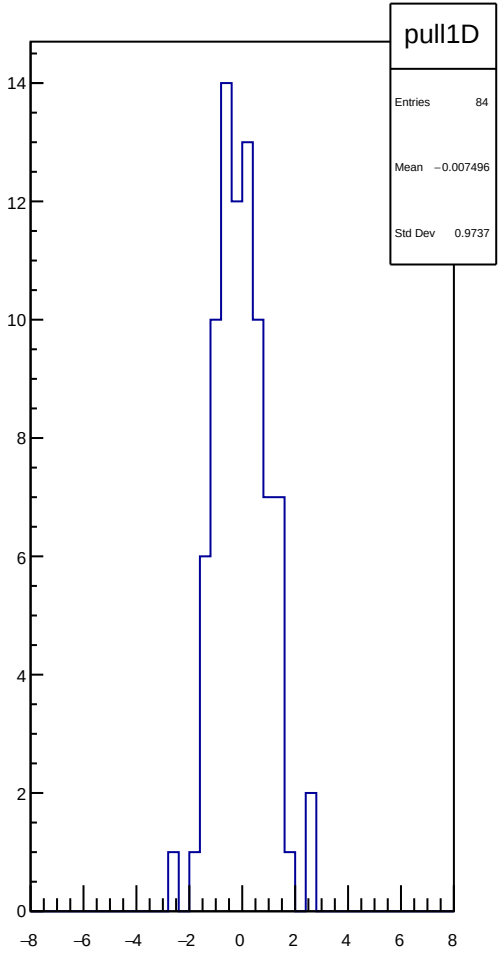

dit_asym_sam_48_avg_rms vs run
χ^2 / ndf 1.01e+04 / 83
p0 147.8 ± 0.1162
200
190
180
170
160
150
140

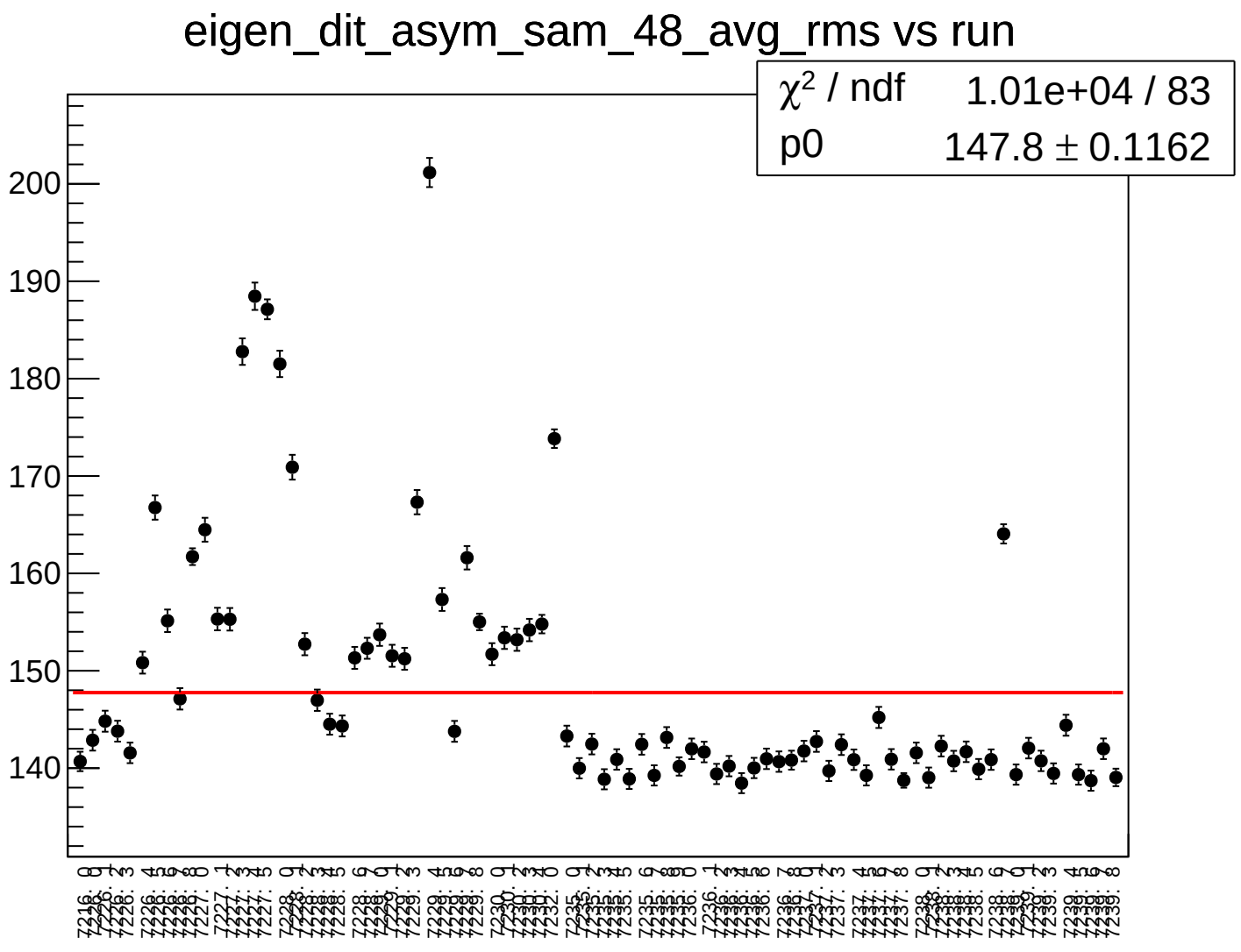

asym_sam_48_avg_dit_correction_mean vs run
χ² / ndf 75.51 / 83
p0 −1379 ± 1044
pull
Entries 84
Mean 19.35
Std Dev 0

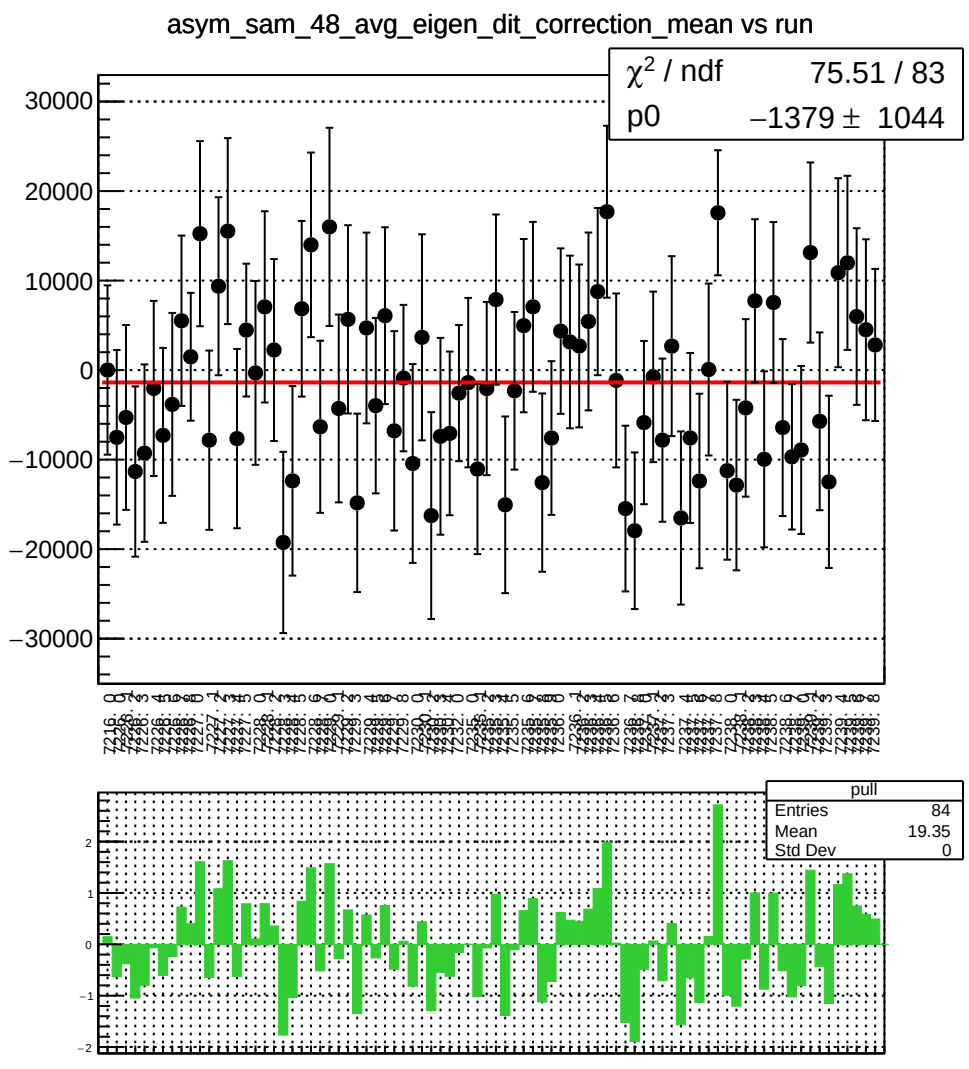

pull1D
Entries 84
Mean −0.01005
Std Dev 0.948

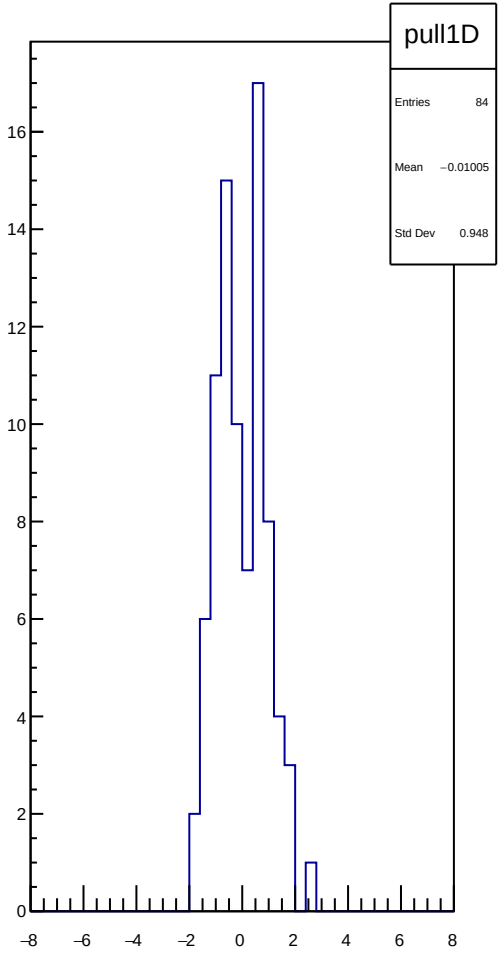

asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 4856 / 83
p0 940 ± 0.7381
1100
1050
1000
950
900
850

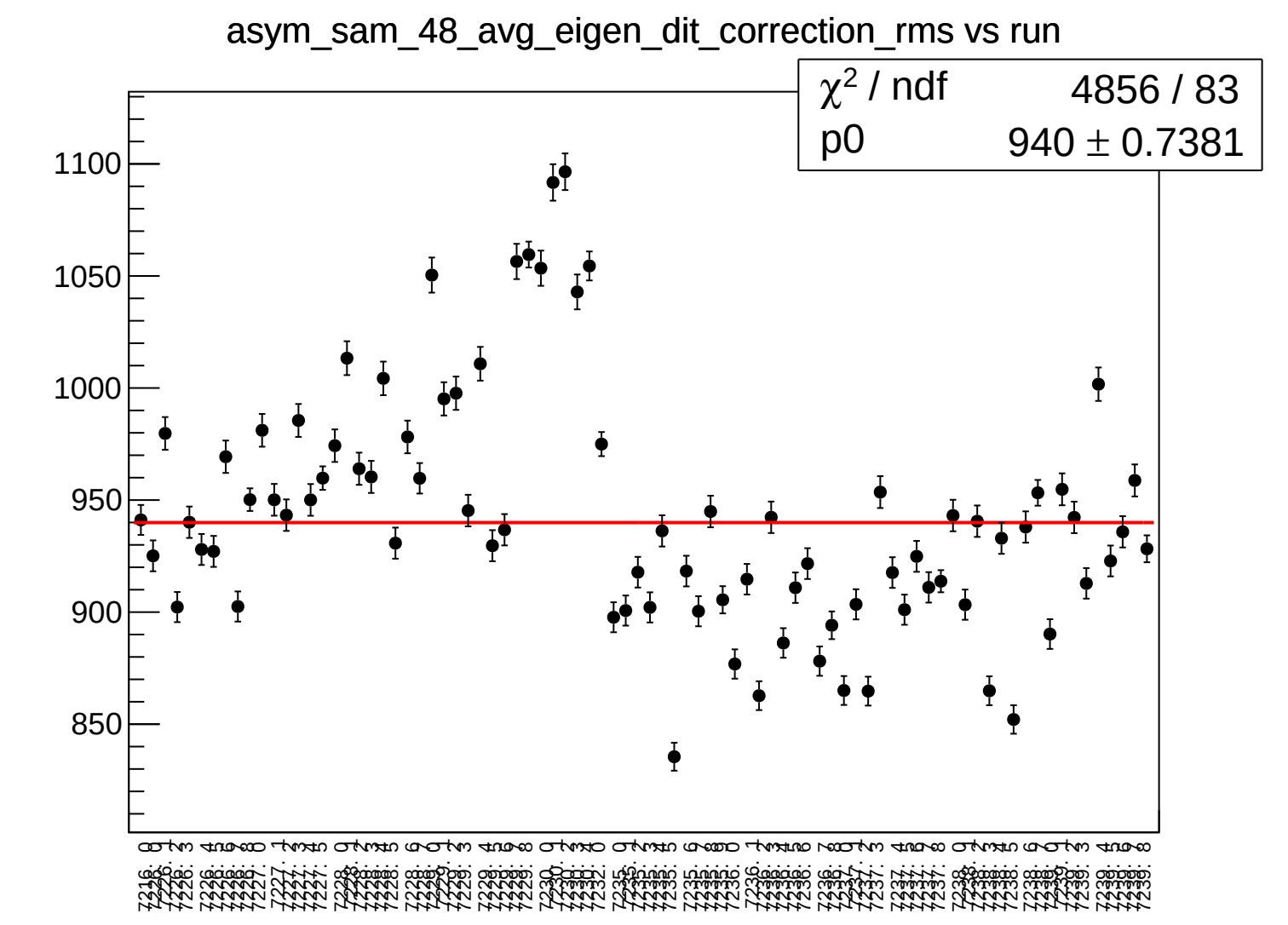

eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 79.65 / 83
p0 −536.5 ± 164.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 84
Mean 696.3
Std Dev 0
3
2
1
0
−1
−2

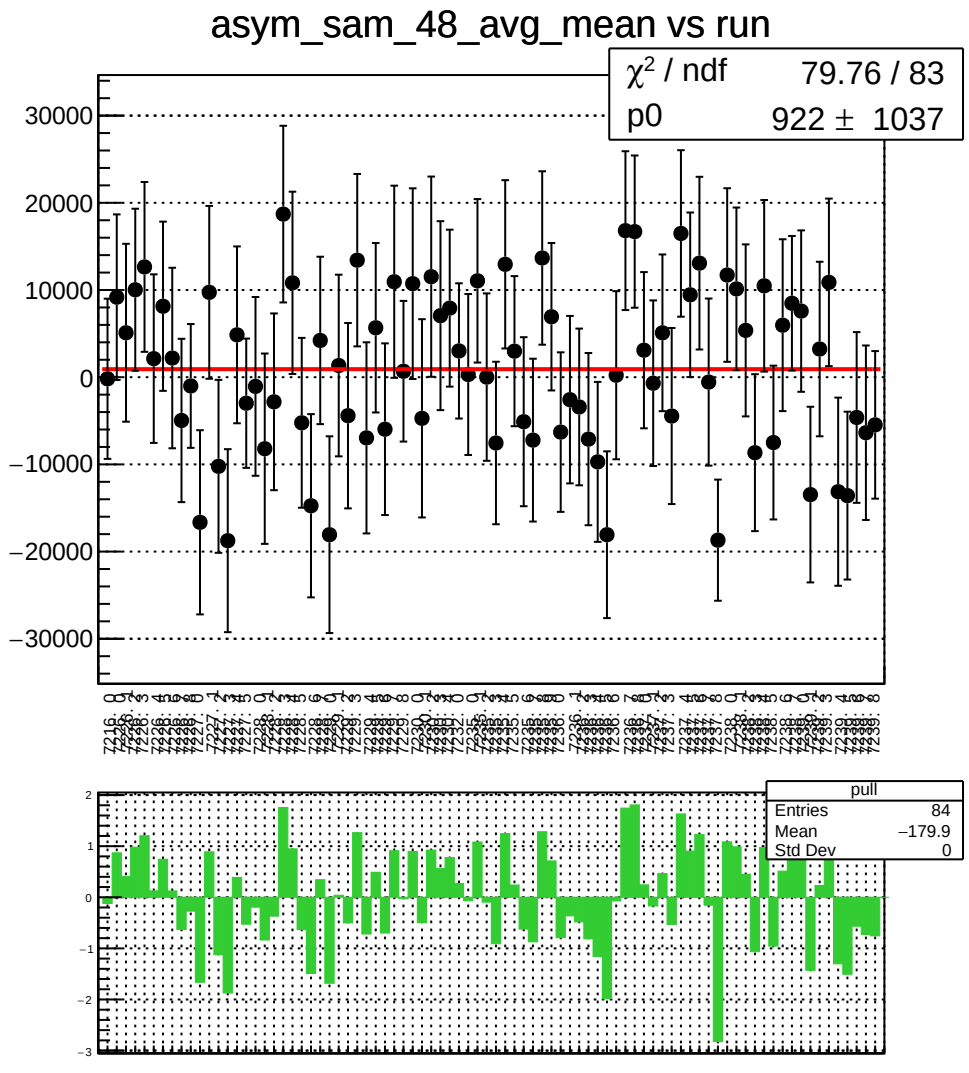

pull1D
Entries 84
Mean −0.007496
Std Dev 0.9737
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

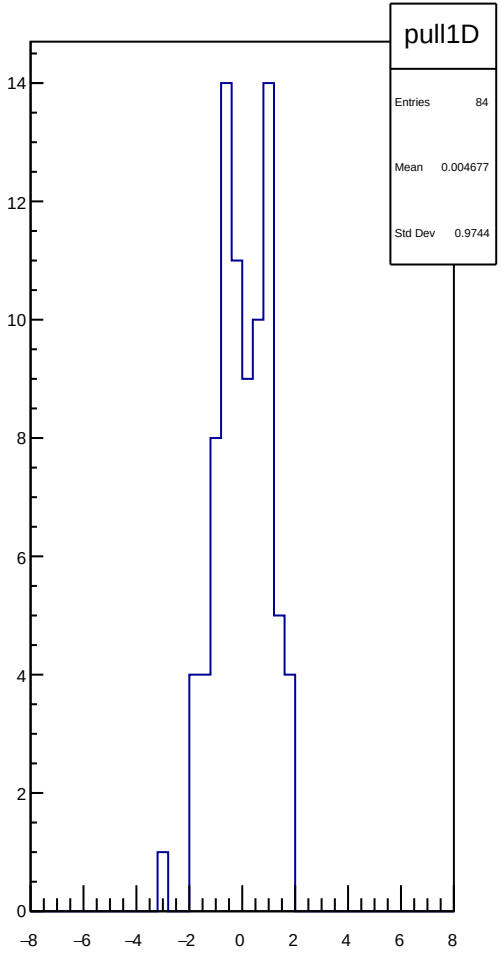

eigen_dit_asym_sam_48_avg_rms vs run
χ² / ndf 1.01e+04 / 83
p0 147.8 ± 0.1162
200
190
180
170
160
150
140

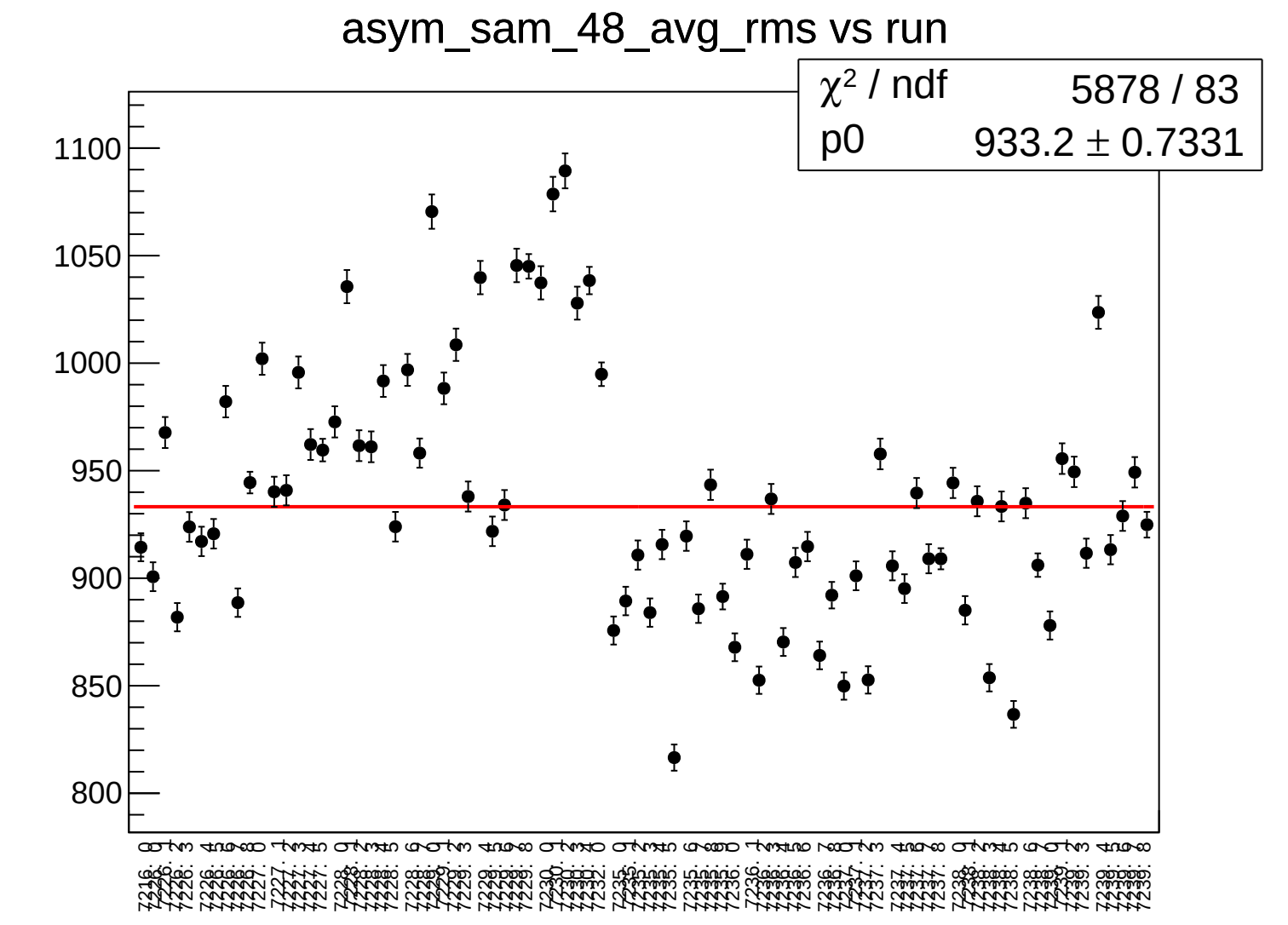

asym_sam_48_avg_eigen_dit_correction_mean vs run
χ² / ndf 75.51 / 83
p0 −1379 ± 1044
pull
Entries 84
Mean 19.35
Std Dev 0

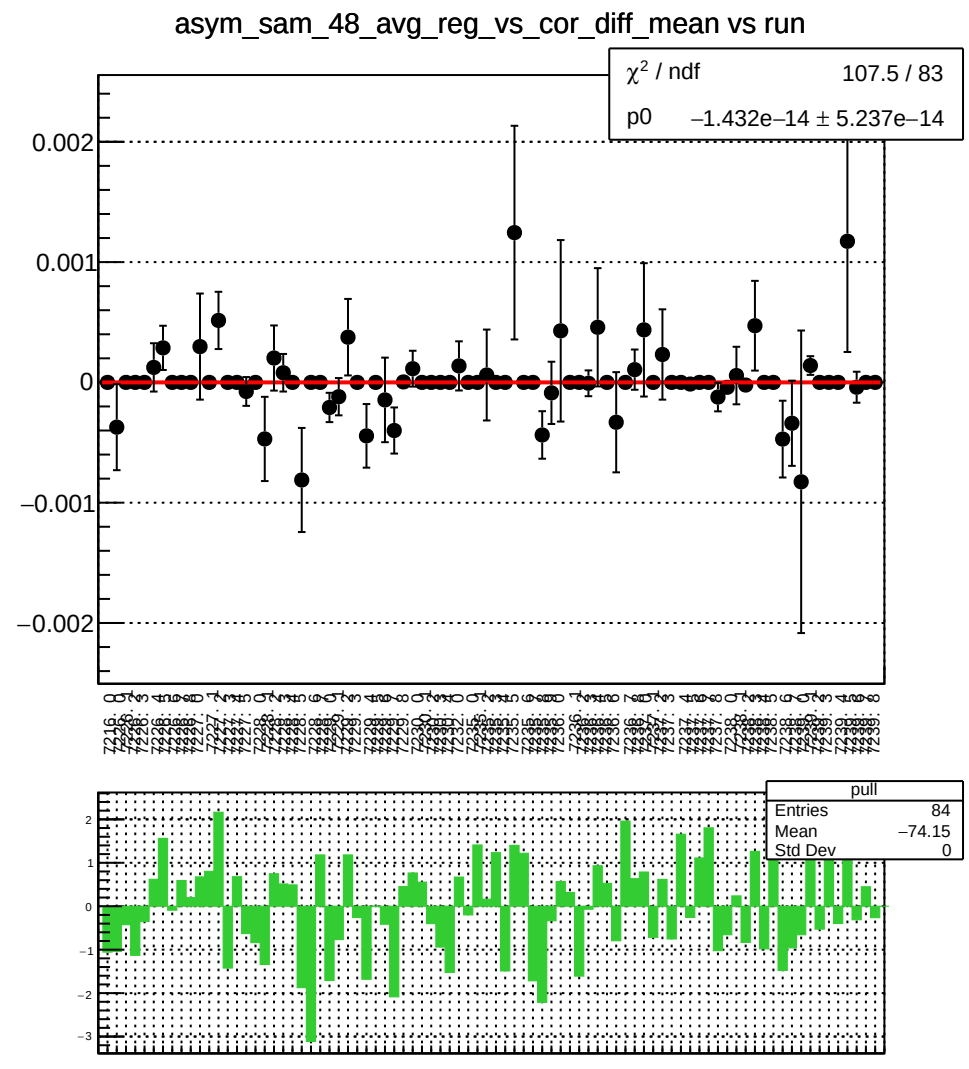

pull1D
Entries 84
Mean −0.01005
Std Dev 0.948

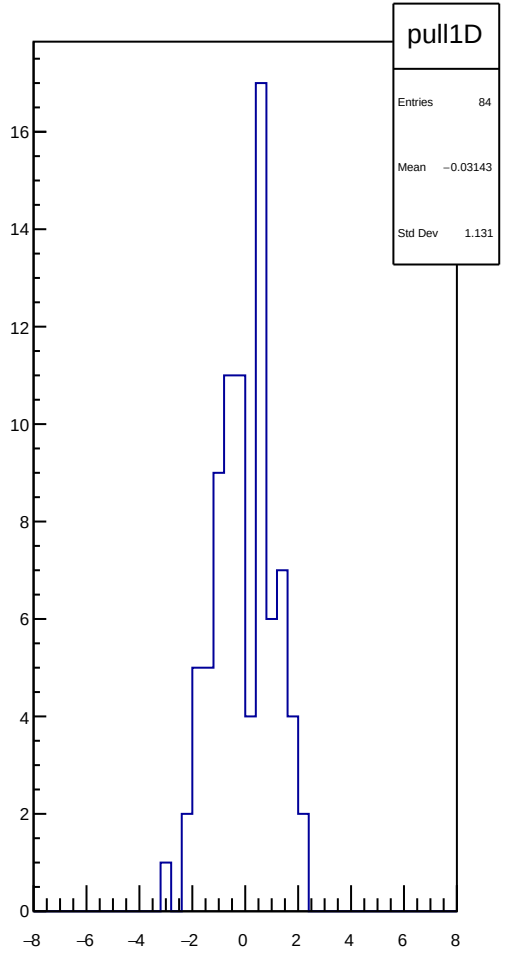

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 4856 / 83
p0 940 ± 0.7381
1100
1050
1000
950
900
850

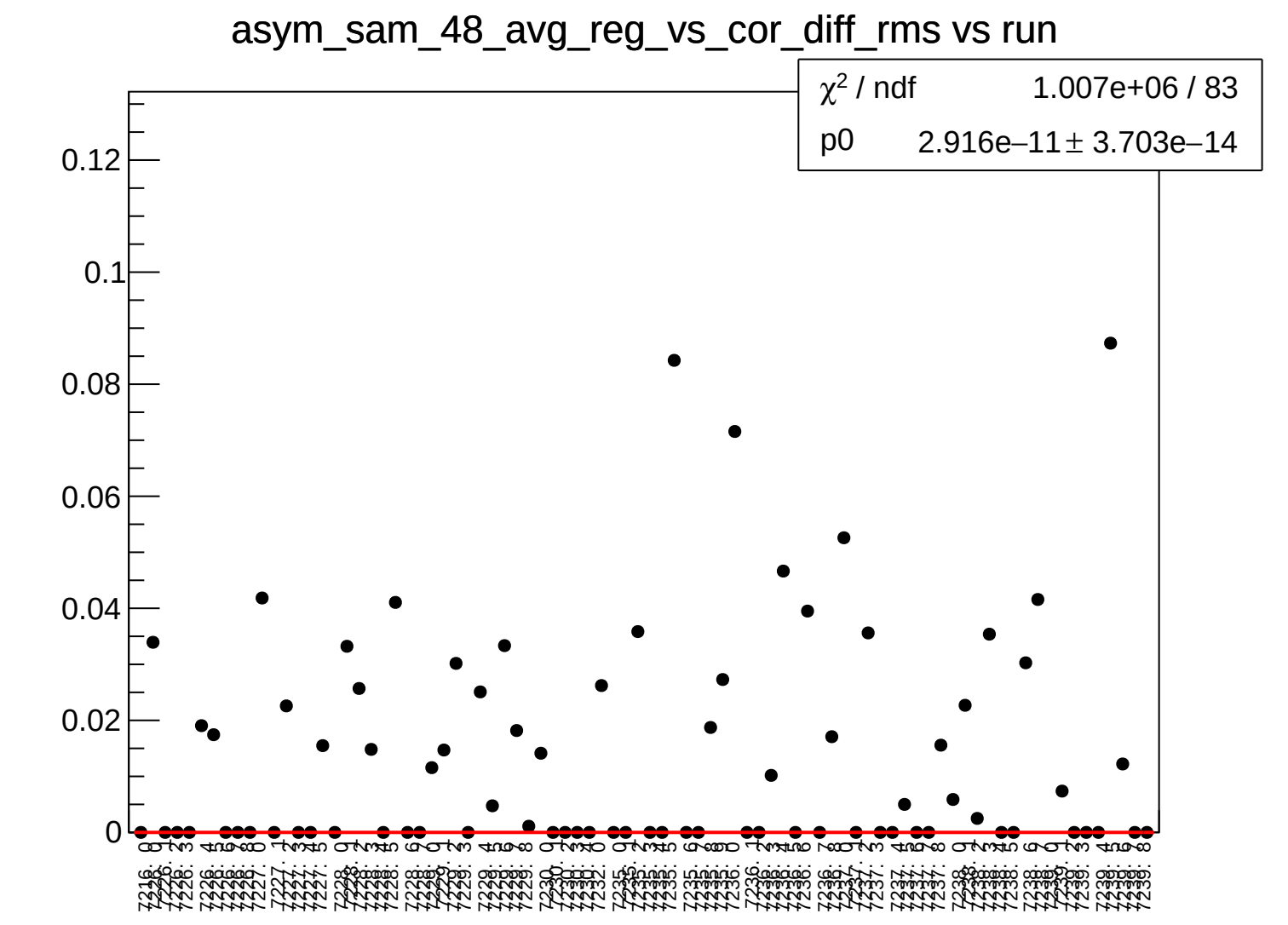

asym_sam_48_avg_mean vs run
χ² / ndf 79.76 / 83
p0 922 ± 1037
pull
Entries 84
Mean −179.9
Std Dev 0

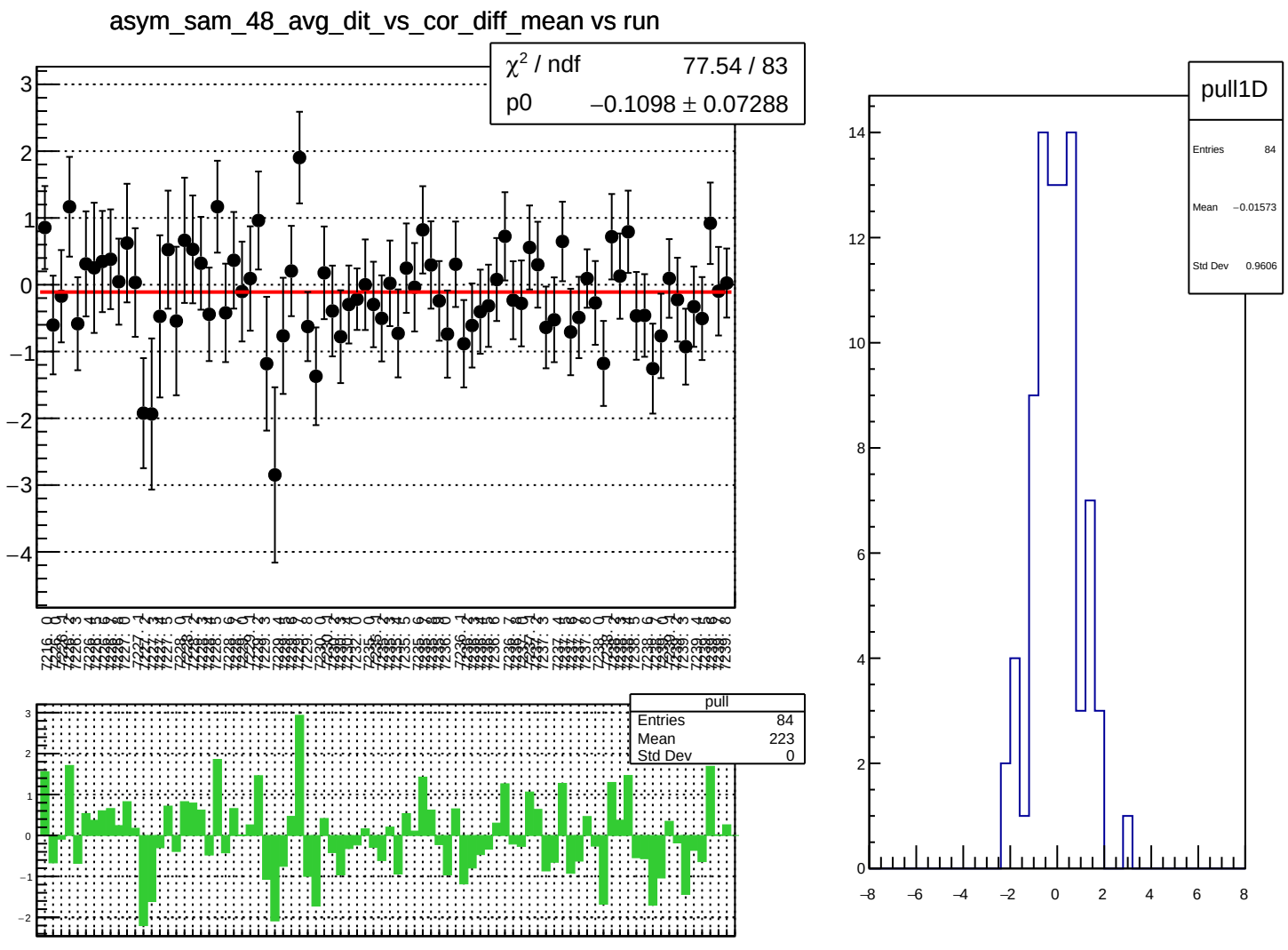

pull1D
Entries 84
Mean 0.004677
Std Dev 0.9744

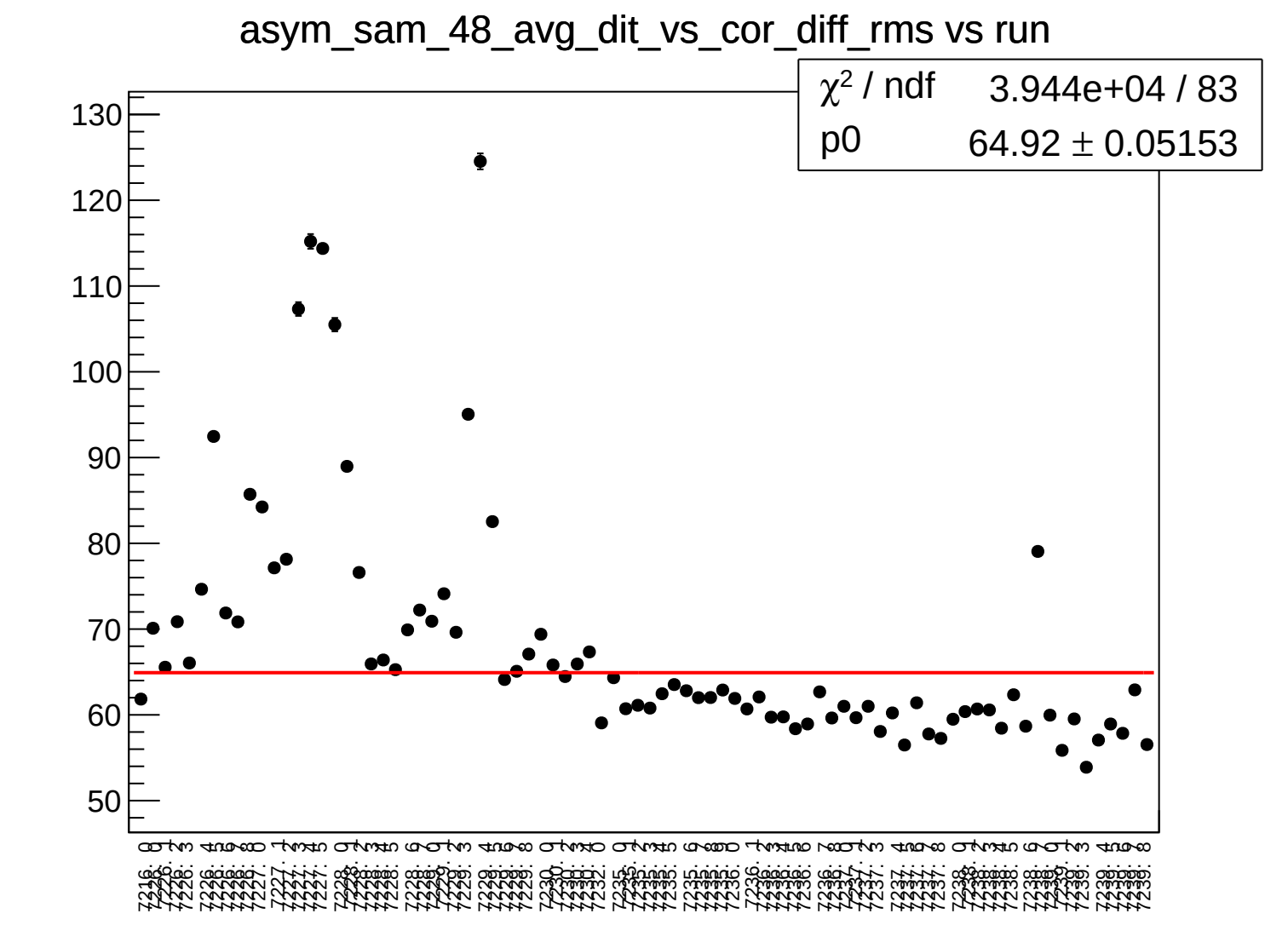

asym_sam_48_avg_rms vs run
χ² / ndf 5878 / 83
p0 933.2 ± 0.7331
1100
1050
1000
950
900
850
800

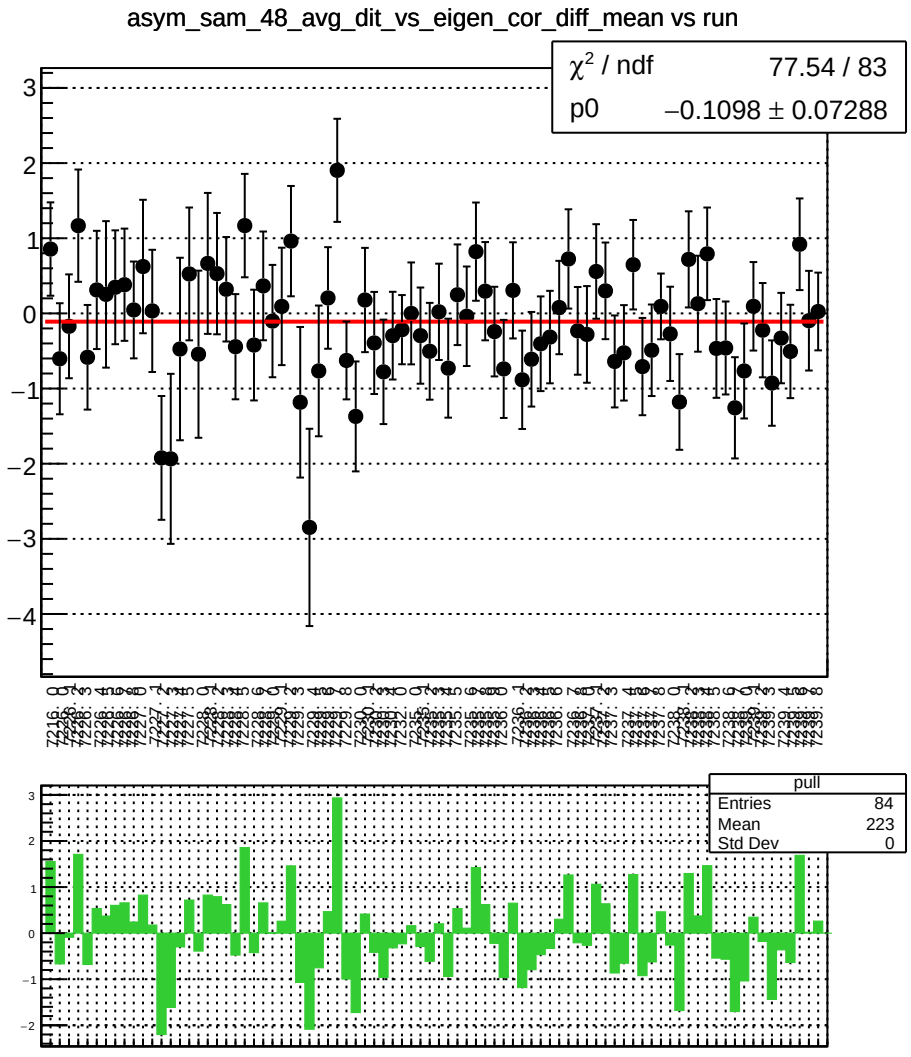

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 107.5 / 83
p0 −1.432e−14 ± 5.237e−14
0.002
0.001
0
−0.001
−0.002
pull
Entries 84
Mean −74.15
Std Dev 0
2
1
0
−1
−2
−3

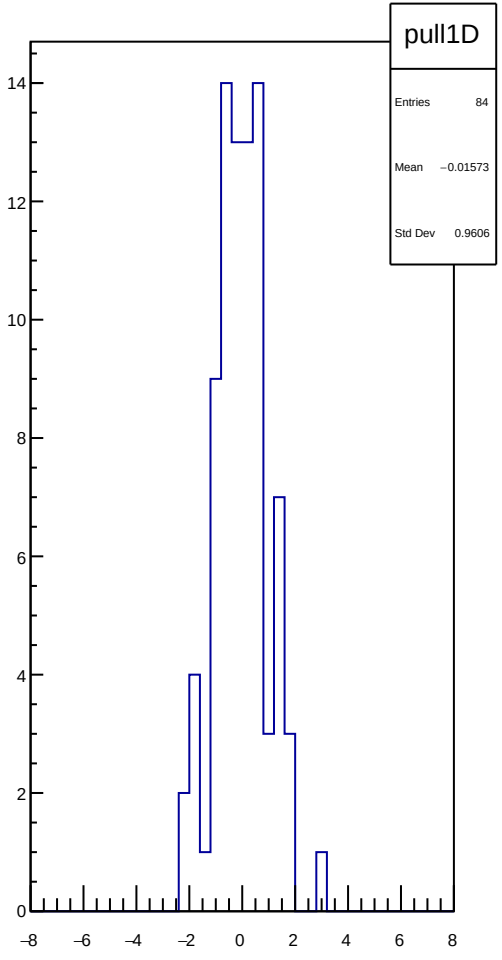

pull1D
Entries 84
Mean −0.03143
Std Dev 1.131
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

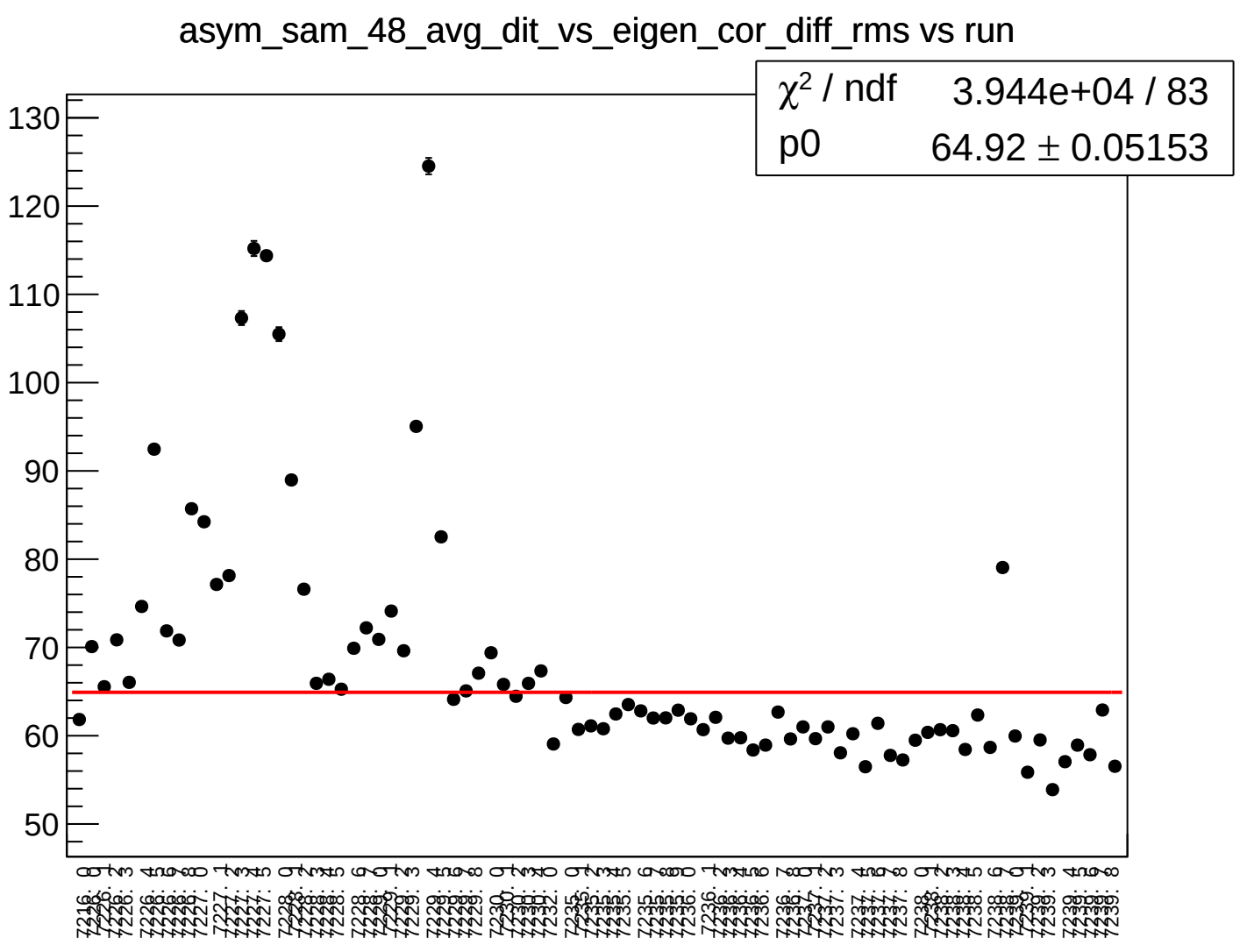

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.007e+06 / 83
p0 2.916e−11 ± 3.703e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

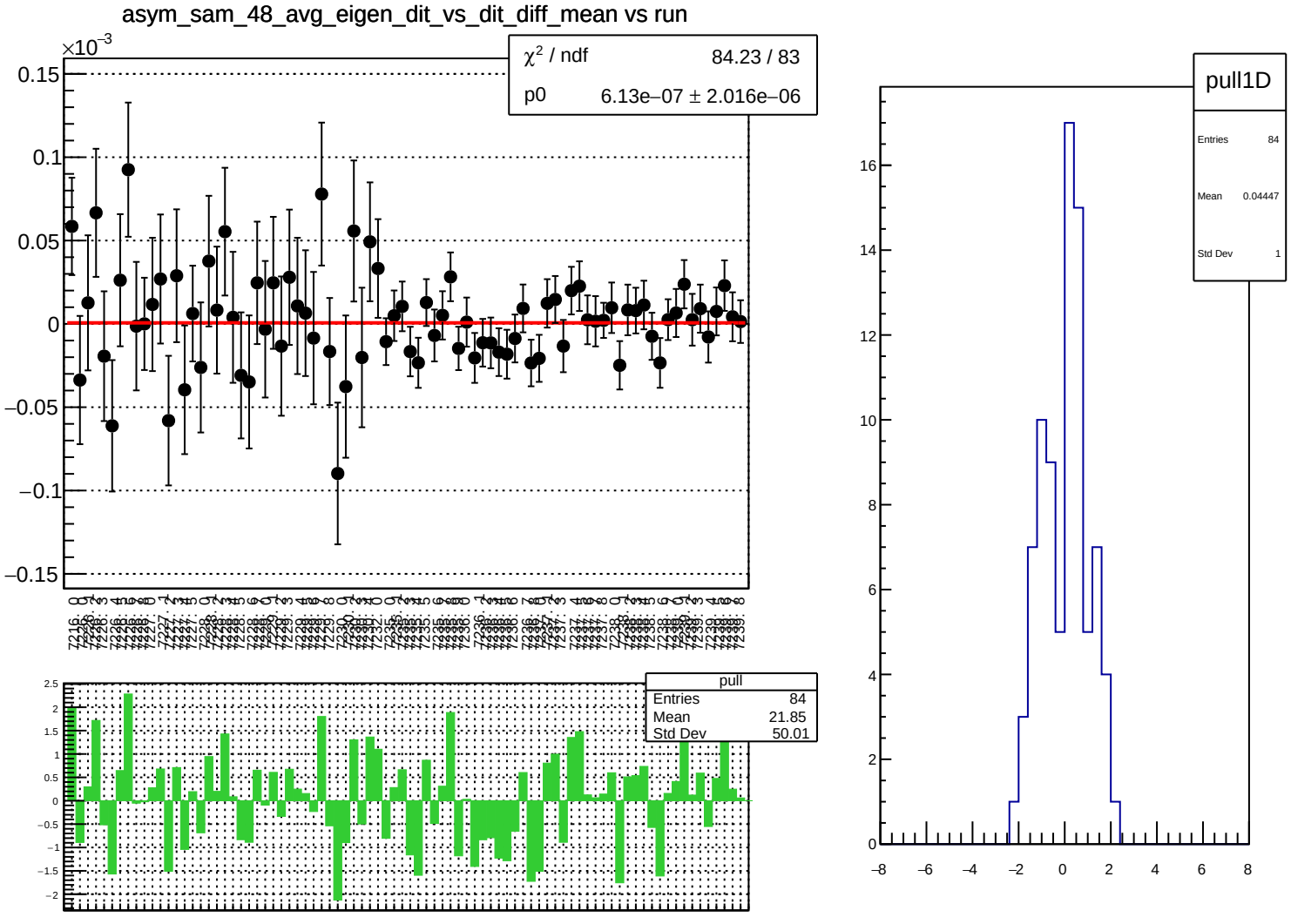

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 77.54 / 83
p0 −0.1098 ± 0.07288
pull
Entries 84
Mean 223
Std Dev 0
pull1D
Entries 84
Mean −0.01573
Std Dev 0.9606

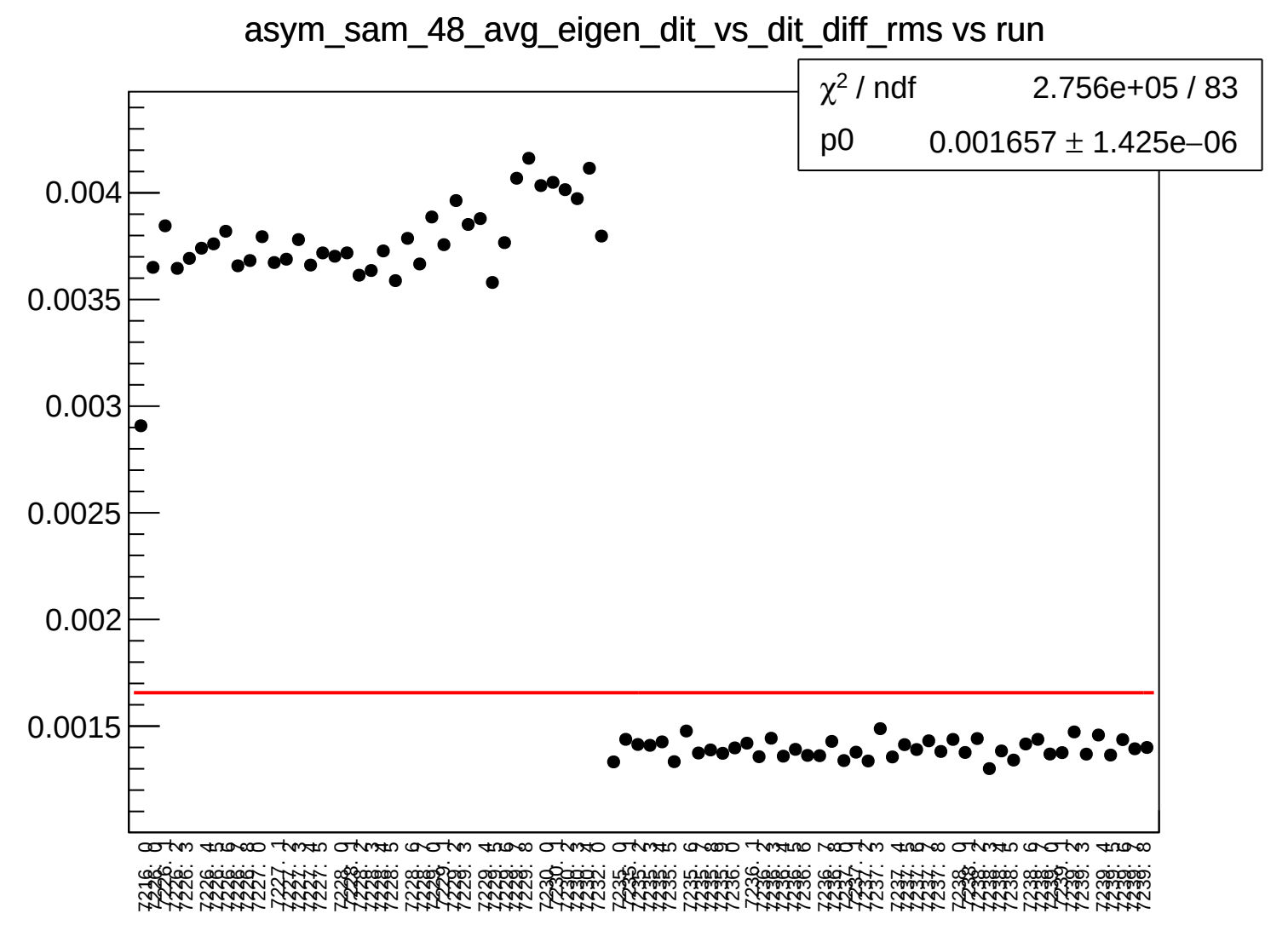

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.944e+04 / 83
p0 64.92 ± 0.05153
130
120
110
100
90
80
70
60
50

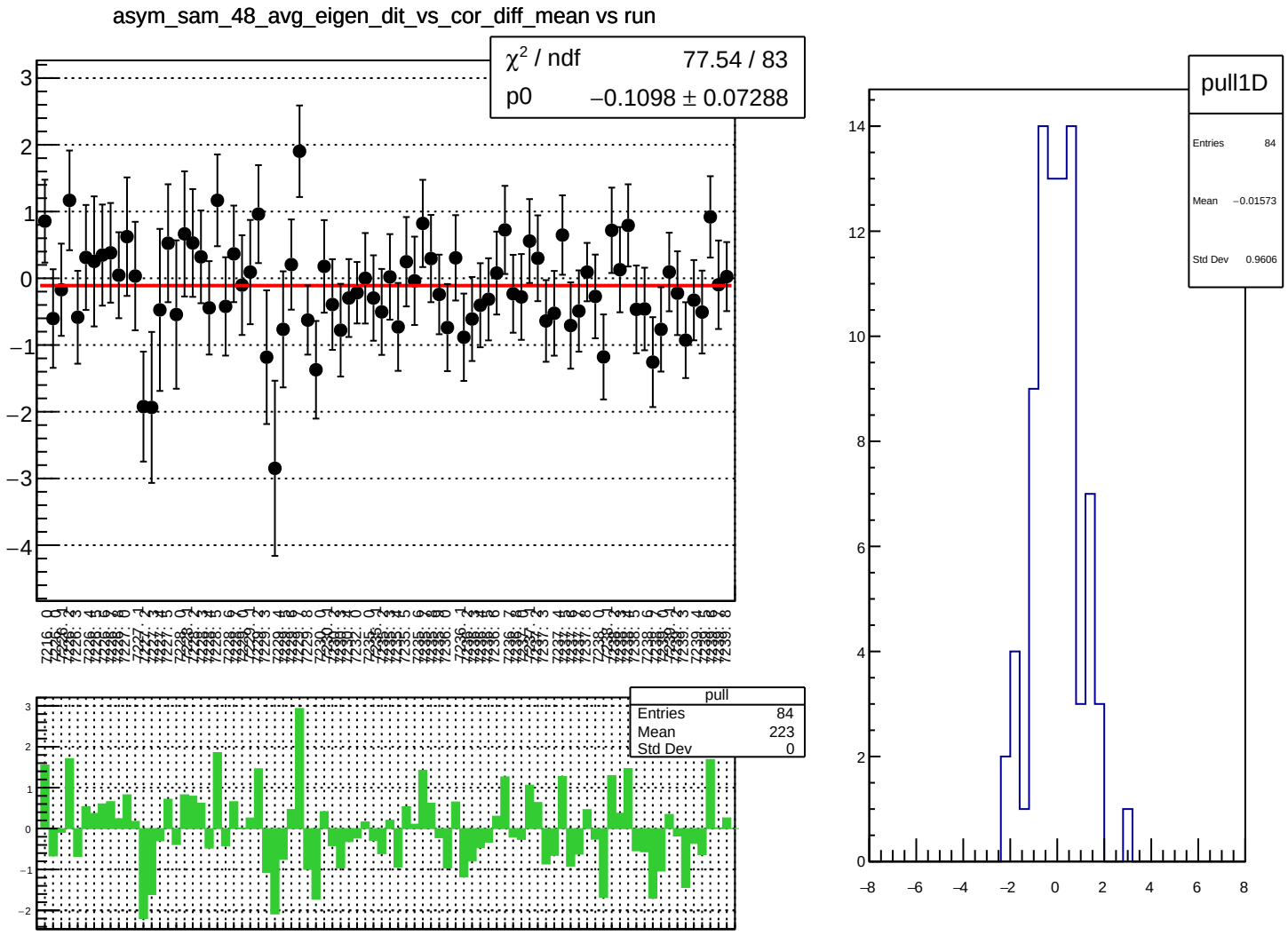

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.54 / 83
p0 −0.1098 ± 0.07288
pull
Entries 84
Mean 223
Std Dev 0

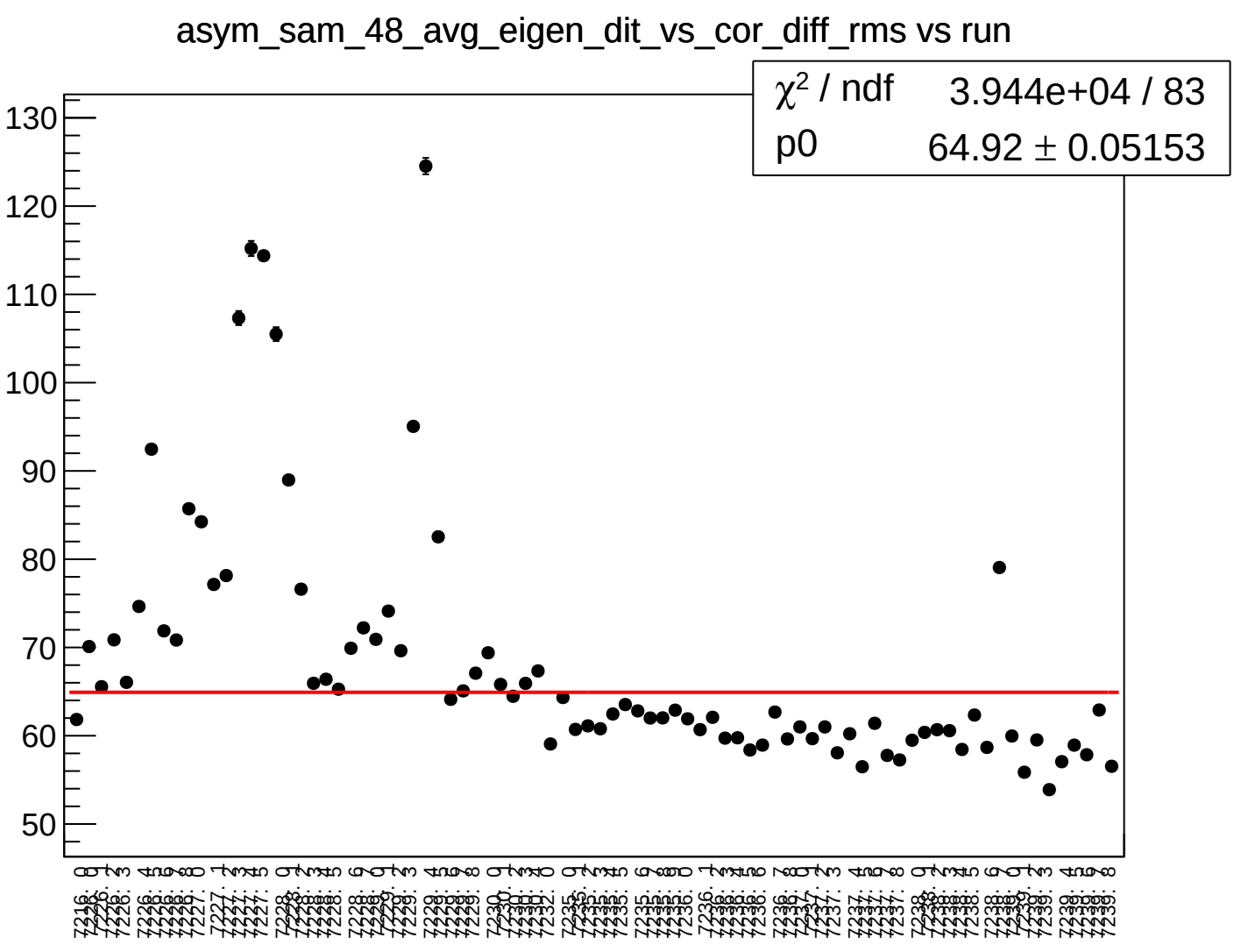

pull1D
Entries 84
Mean −0.01573
Std Dev 0.9606

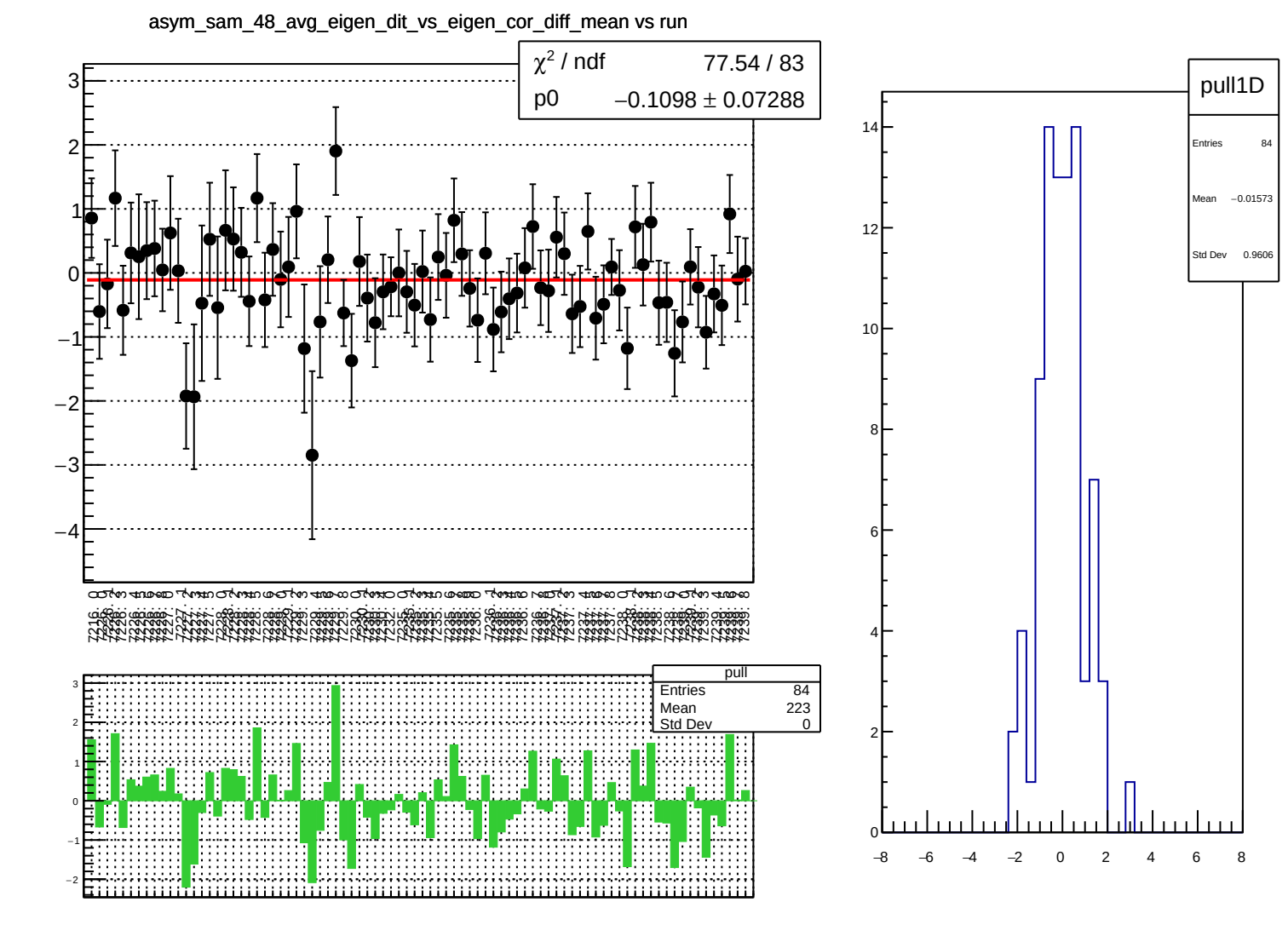

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.944e+04 / 83
p0 64.92 ± 0.05153
130
120
110
100
90
80
70
60
50

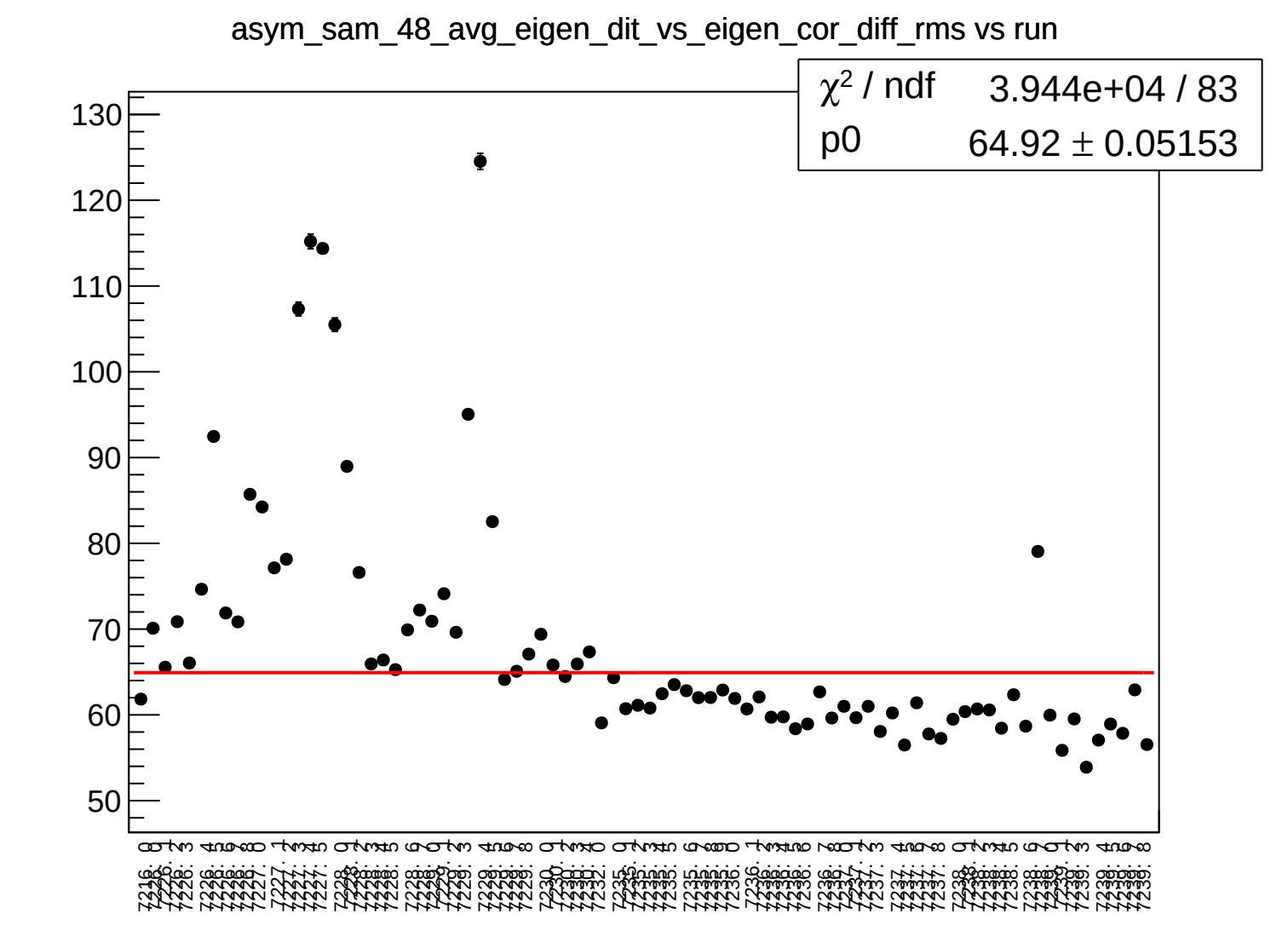

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.23 / 83
p0 6.13e−07 ± 2.016e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 84
Mean 21.85
Std Dev 50.01
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 84
Mean 0.04447
Std Dev 1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

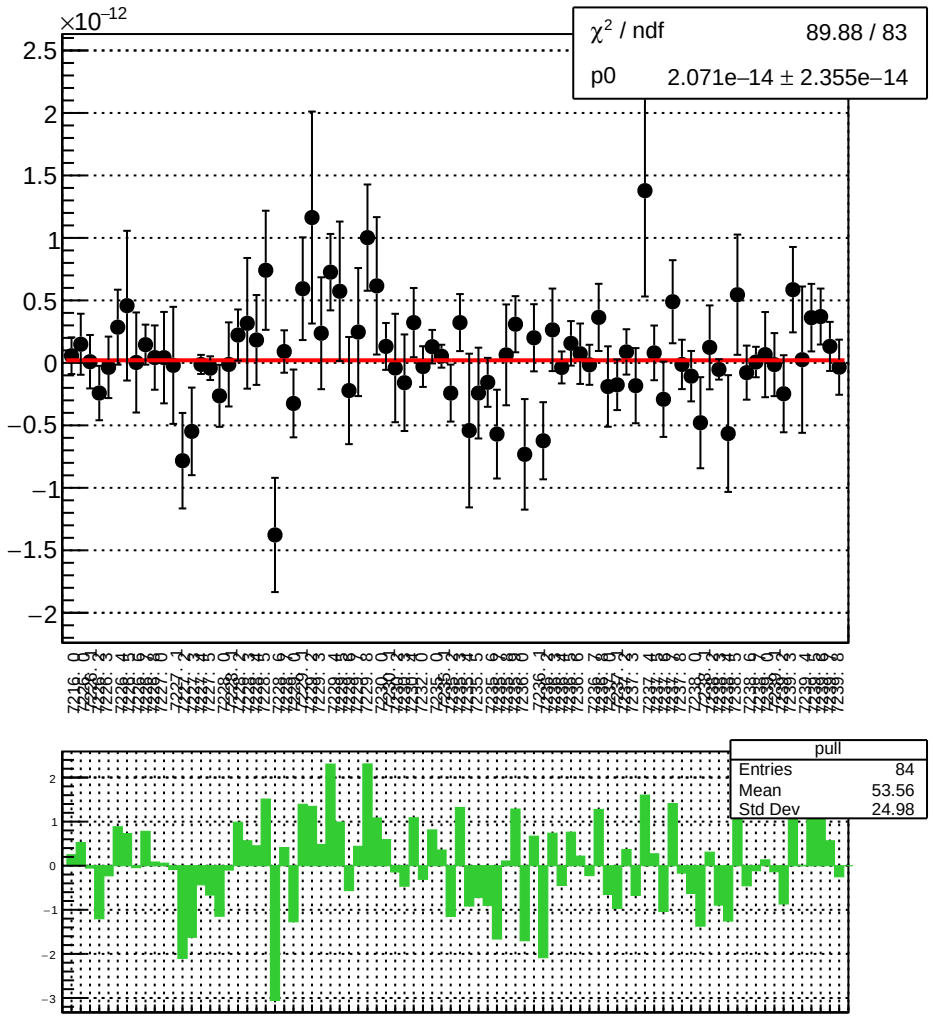

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.756e+05 / 83
p0 0.001657 ± 1.425e−06
0.004
0.0035
0.003
0.0025
0.002
0.0015

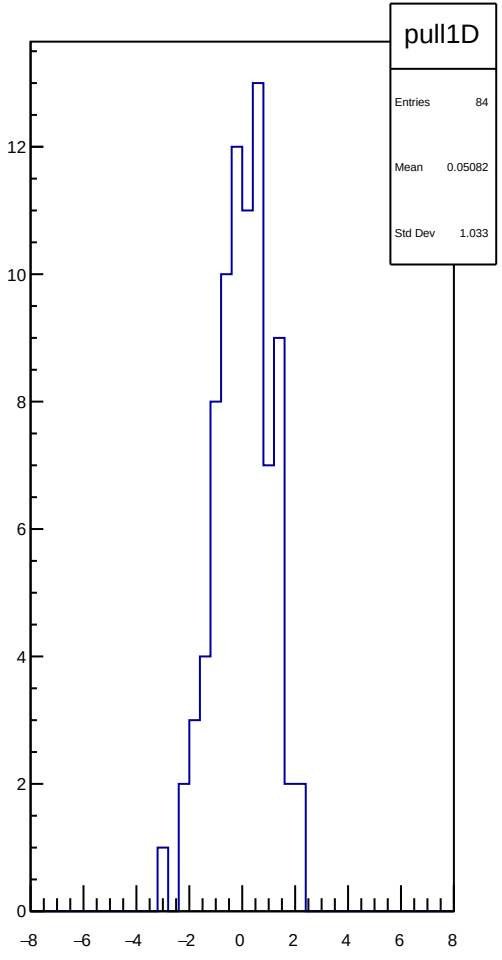

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.54 / 83
p0 −0.1098 ± 0.07288
pull
Entries 84
Mean 223
Std Dev 0
pull1D
Entries 84
Mean −0.01573
Std Dev 0.9606

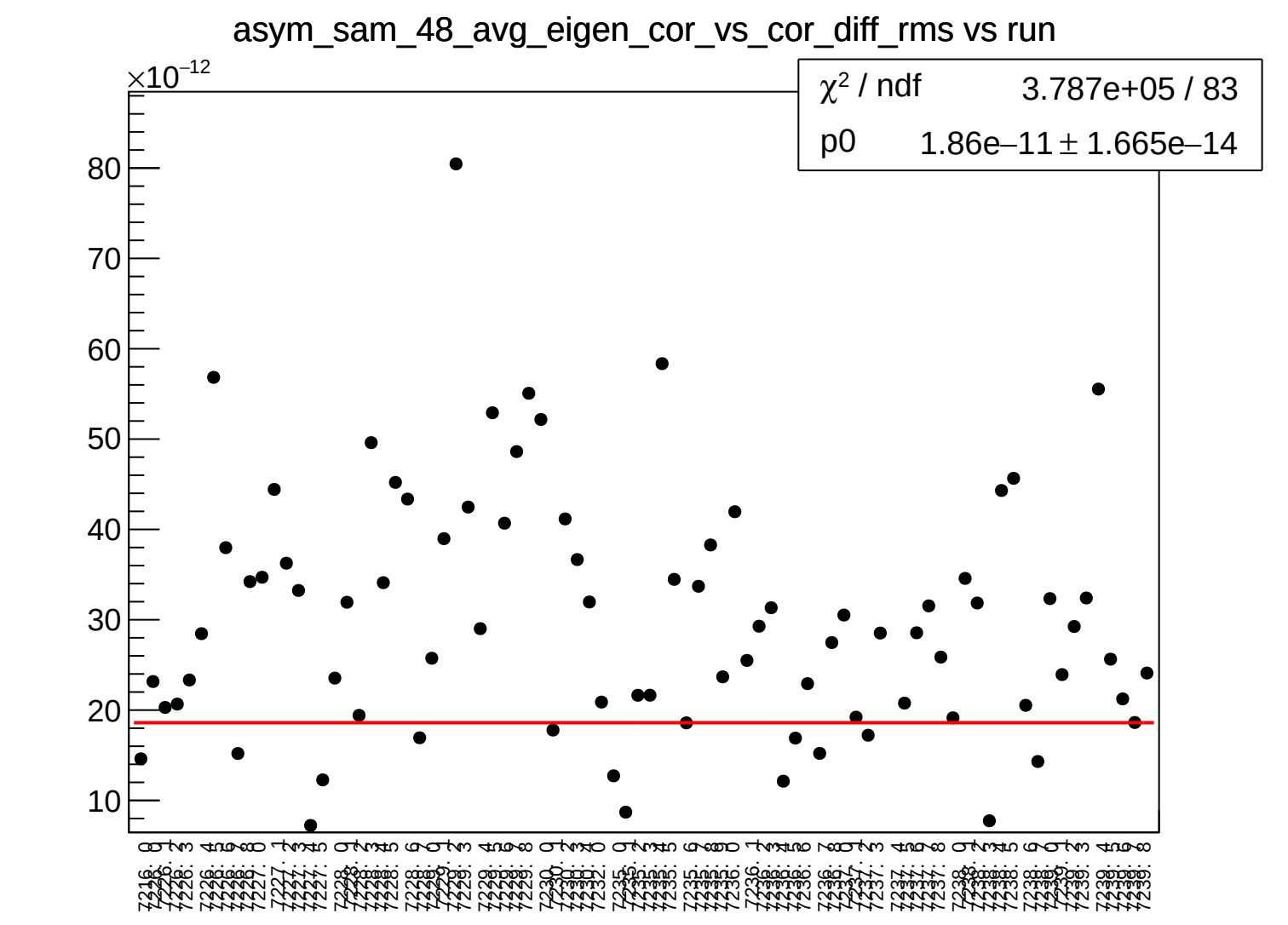

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.944e+04 / 83
p0 64.92 ± 0.05153
130
120
110
100
90
80
70
60
50

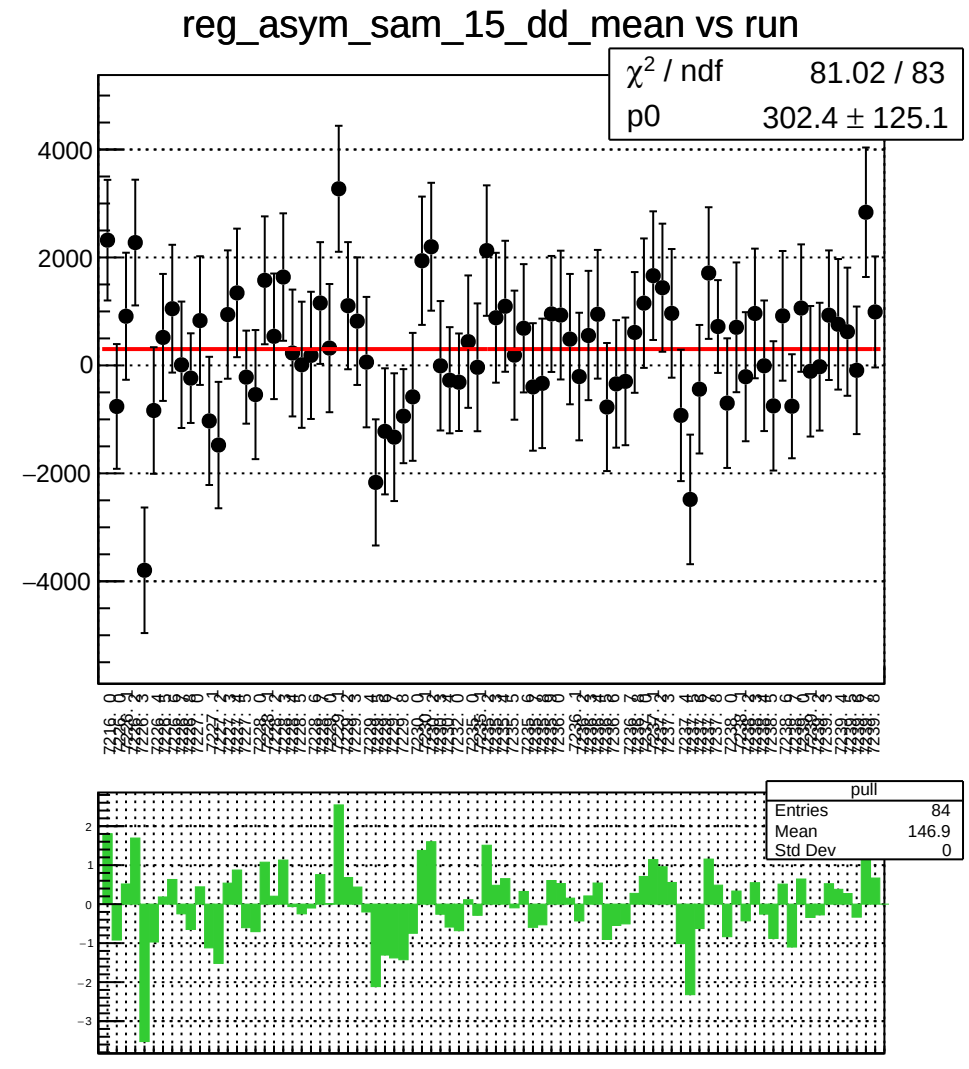

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.54 / 83
p0 −0.1098 ± 0.07288
pull
Entries 84
Mean 223
Std Dev 0
pull1D
Entries 84
Mean −0.01573
Std Dev 0.9606

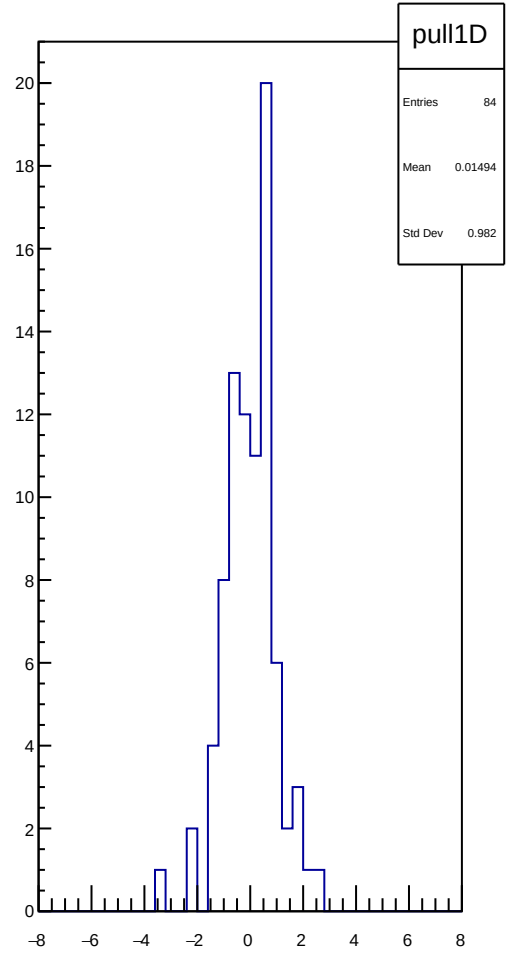

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.944e+04 / 83
p0 64.92 ± 0.05153
130
120
110
100
90
80
70
60
50

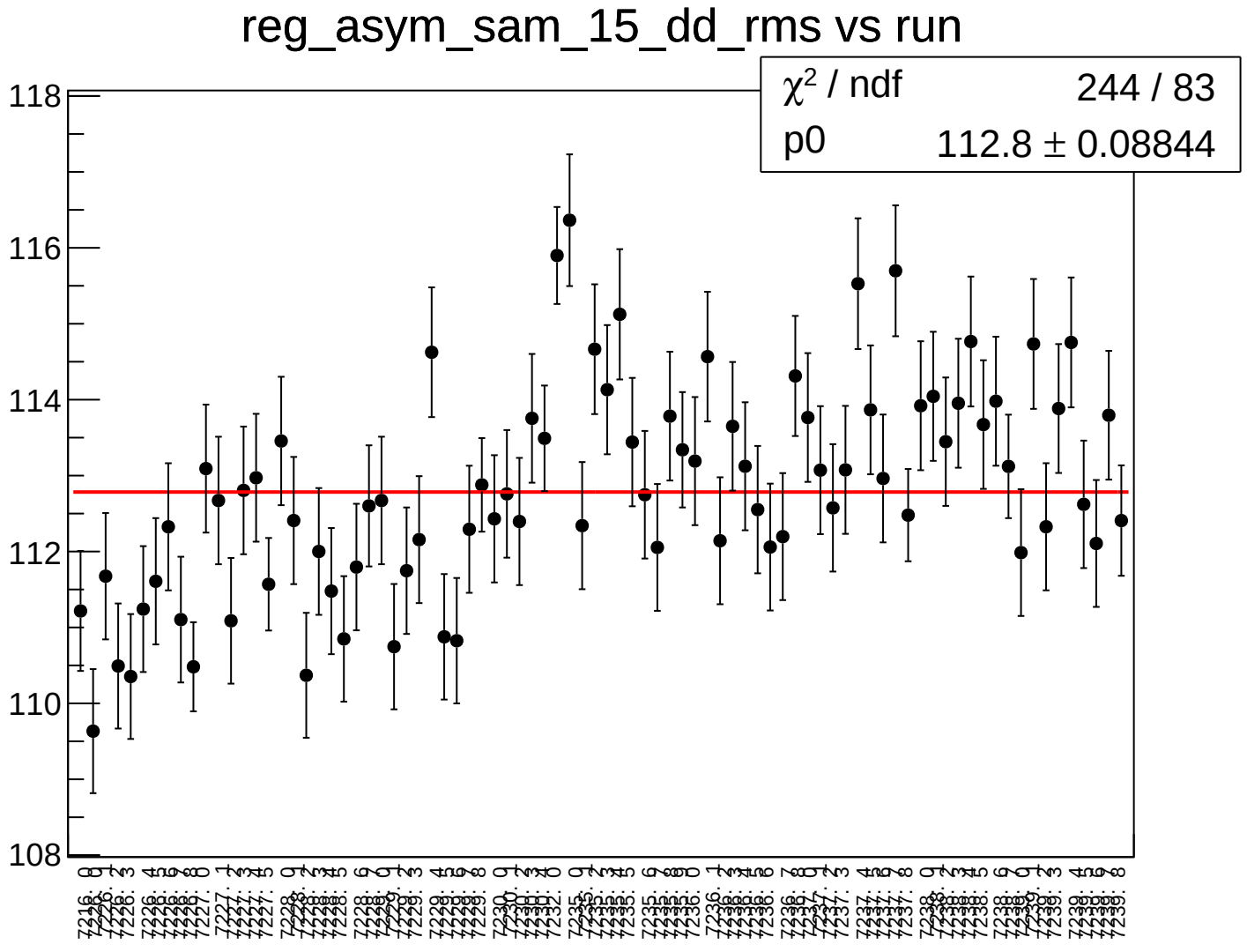

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 89.88 / 83
p0 2.071e−14 ± 2.355e−14
pull
Entries 84
Mean 53.56
Std Dev 24.98

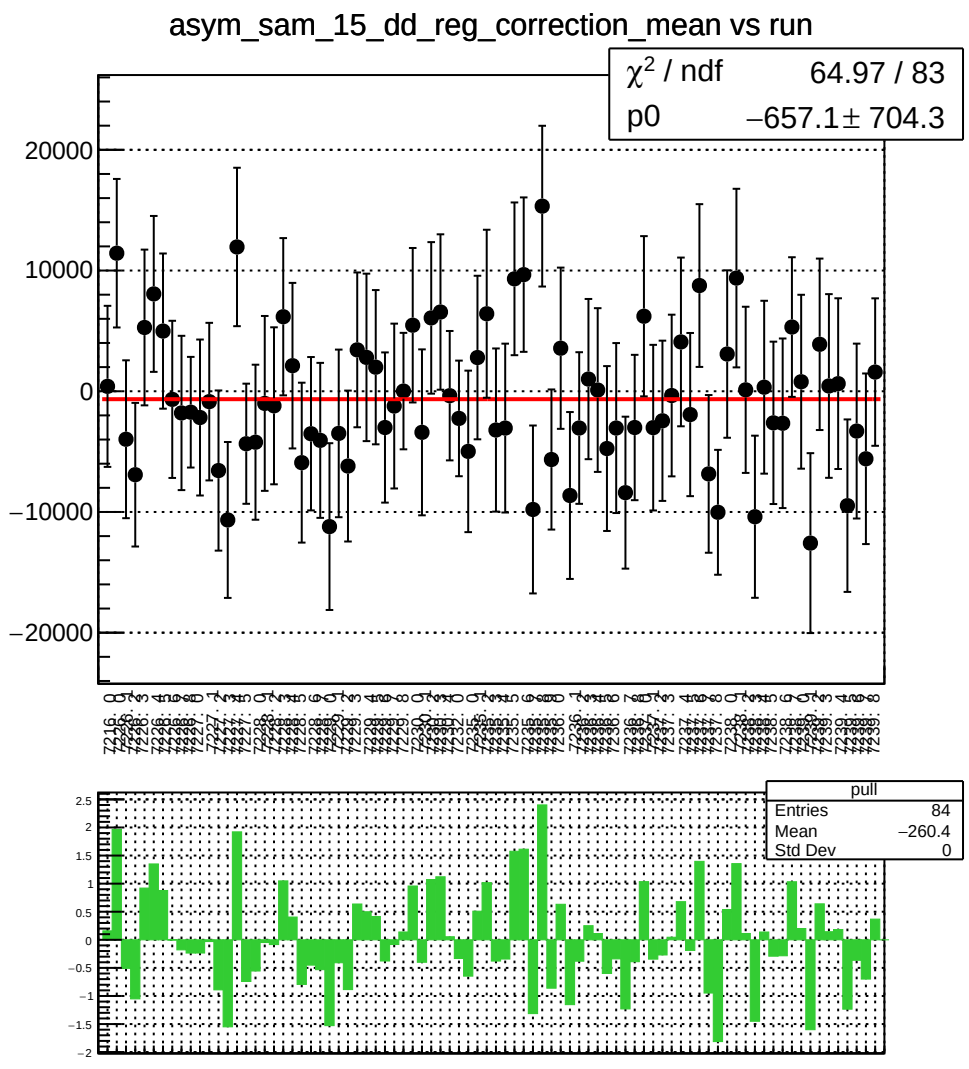

pull1D
Entries 84
Mean 0.05082
Std Dev 1.033

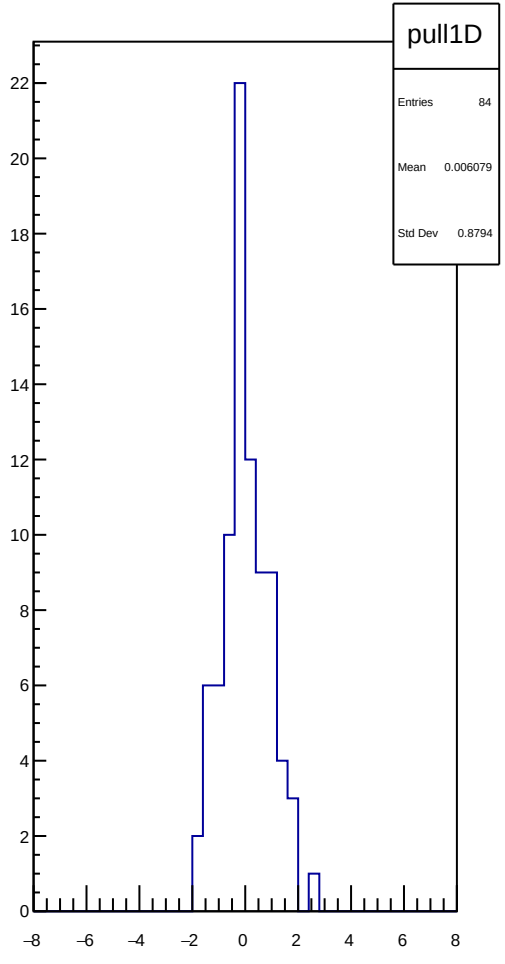

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.787e+05 / 83
p0 1.86e−11 ± 1.665e−14
80
70
60
50
40
30
20
10

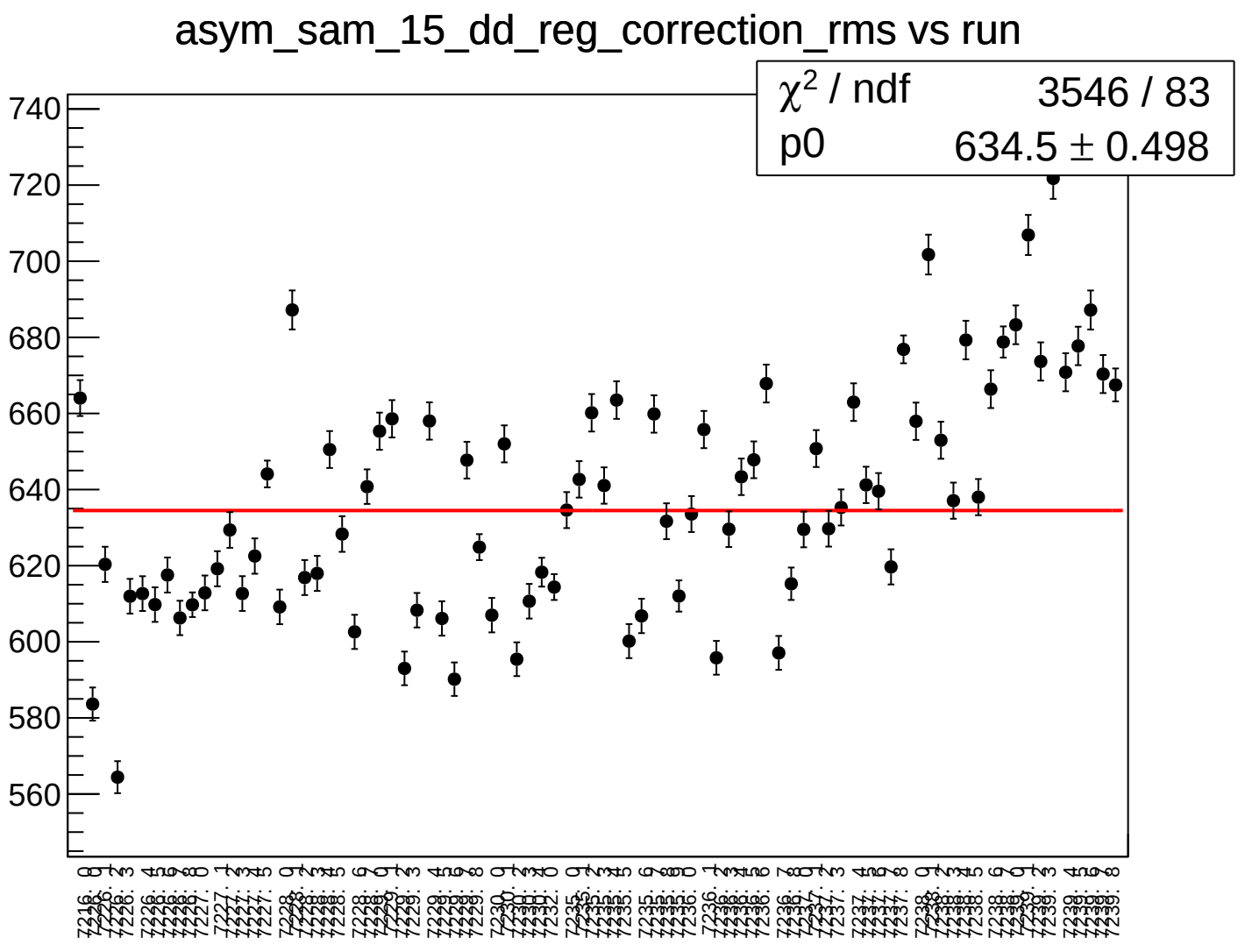

reg_asym_sam_15_dd_mean vs run
χ² / ndf 81.02 / 83
p0 302.4 ± 125.1
4000
2000
0
−2000
−4000
pull
Entries 84
Mean 146.9
Std Dev 0
2
1
0
−1
−2
−3

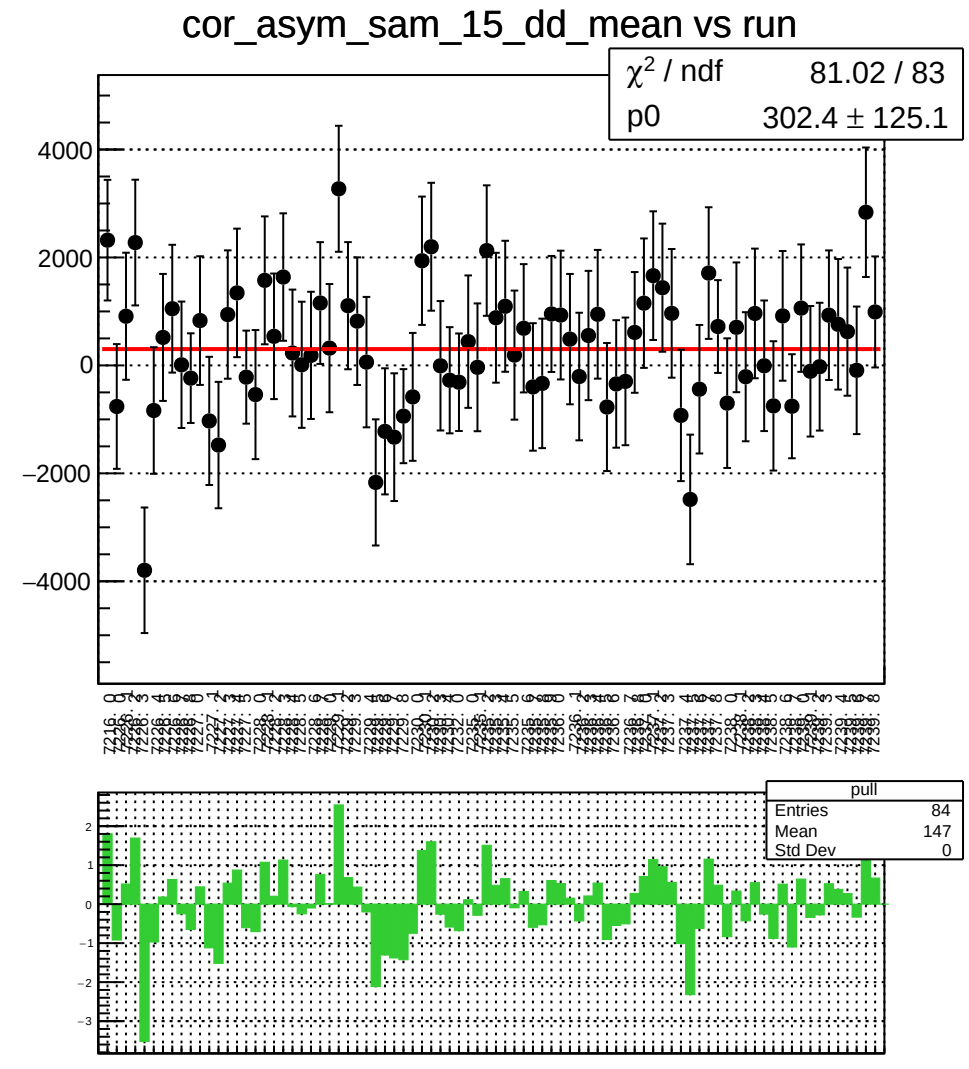

pull1D
Entries 84
Mean 0.01494
Std Dev 0.982
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

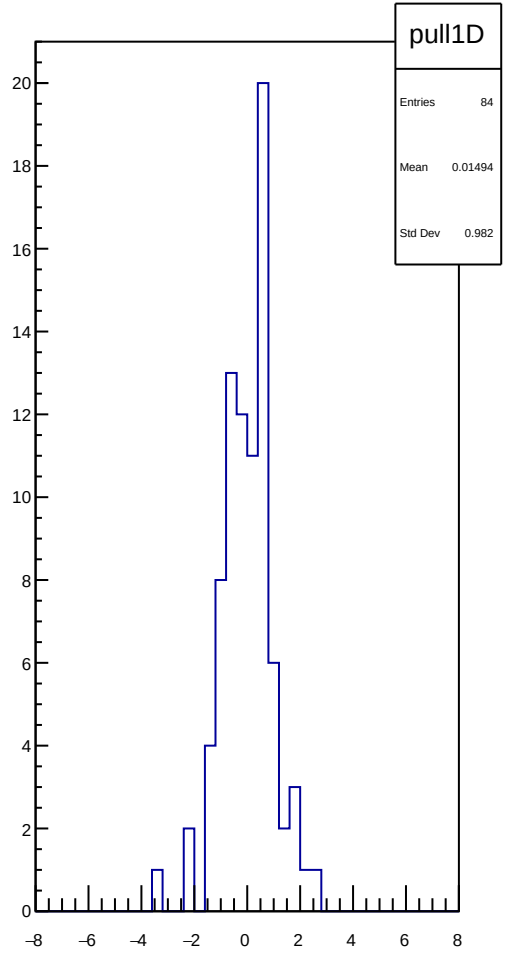

reg_asym_sam_15_dd_rms vs run
χ² / ndf 244 / 83
p0 112.8 ± 0.08844
118
116
114
112
110
108

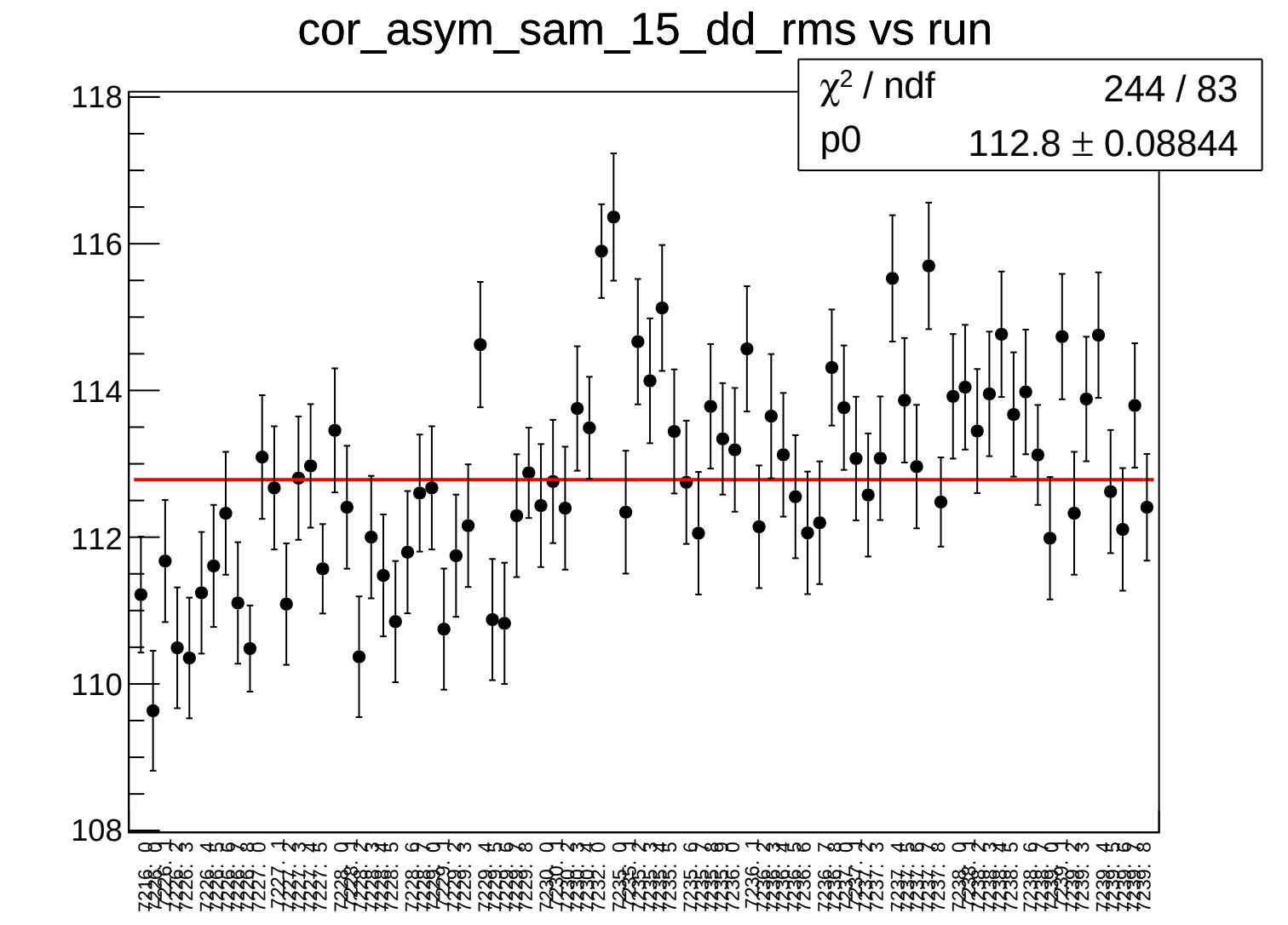

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 64.97 / 83
p0 −657.1± 704.3
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −260.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

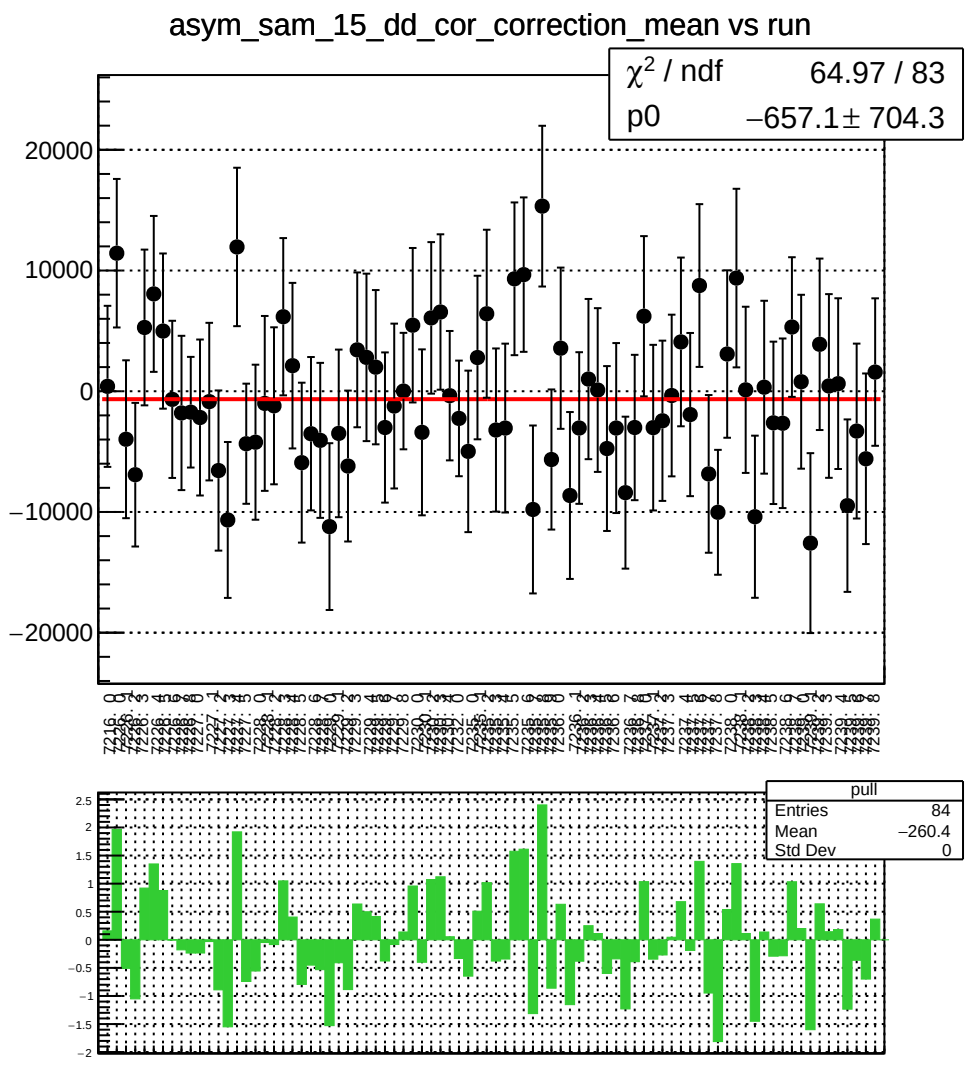

pull1D
Entries 84
Mean 0.006079
Std Dev 0.8794
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

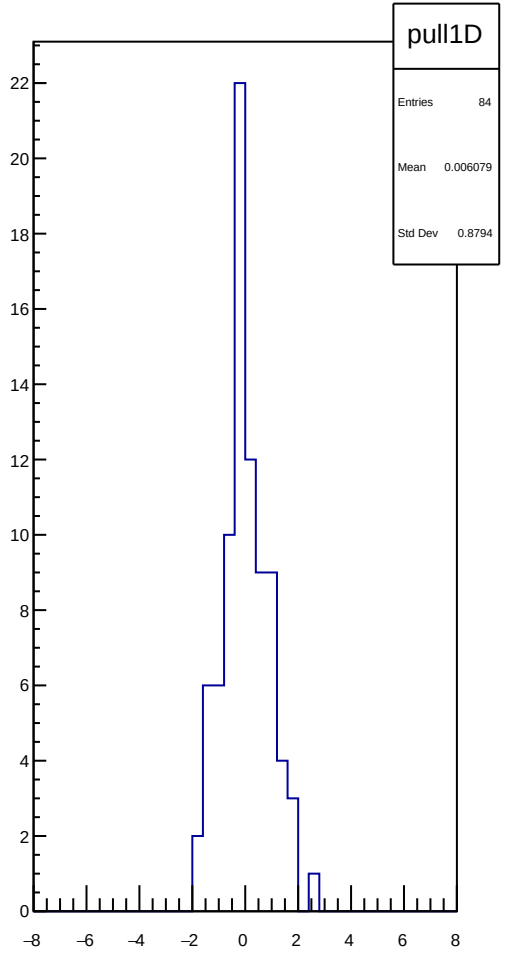

asym_sam_15_dd_reg_correction_rms vs run
χ^2 / ndf 3546 / 83
p0 634.5 ± 0.498
740
720
700
680
660
640
620
600
580
560

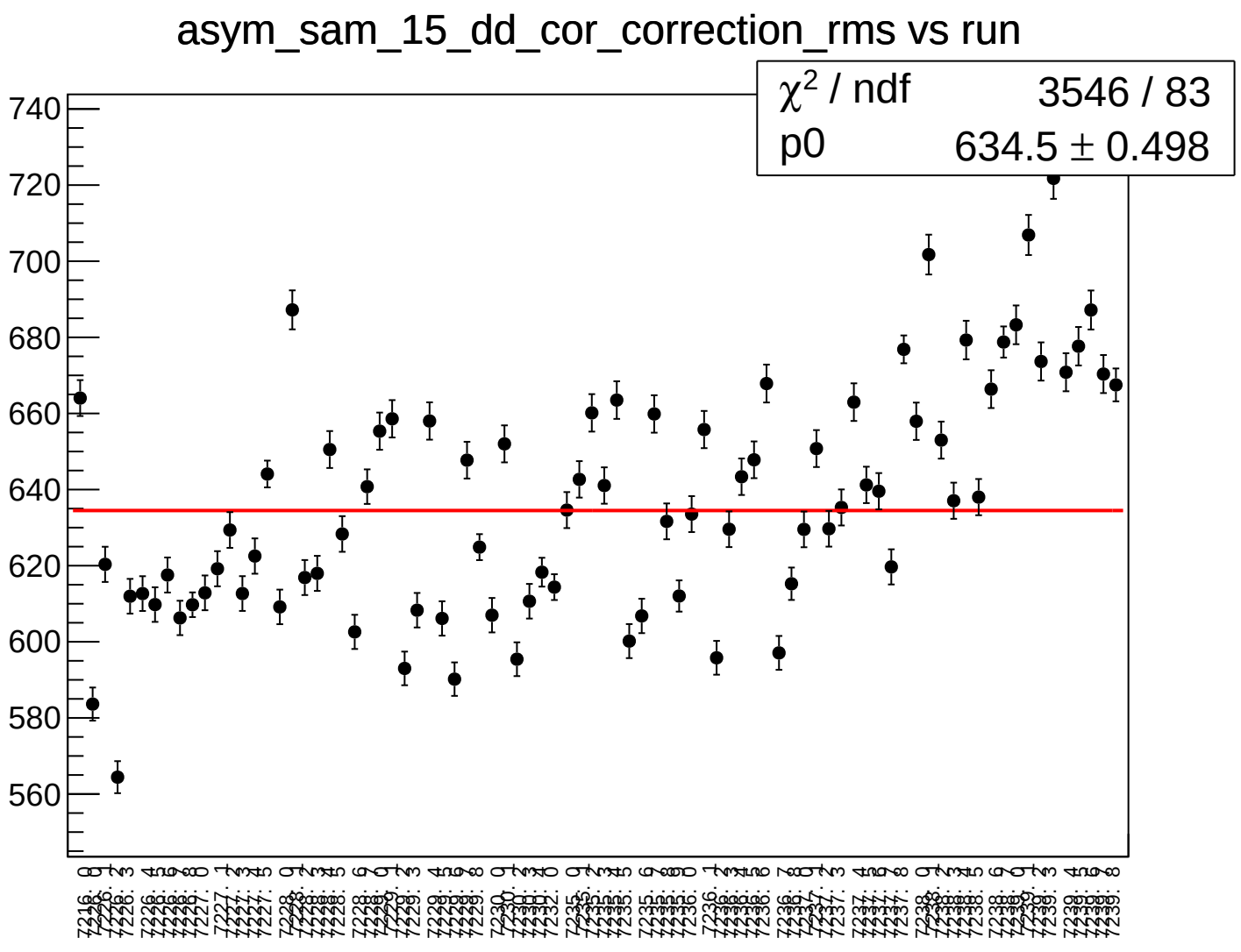

cor_asym_sam_15_dd_mean vs run
χ² / ndf 81.02 / 83
p0 302.4 ± 125.1
4000
2000
0
−2000
−4000
pull
Entries 84
Mean 147
Std Dev 0
2
1
0
−1
−2
−3

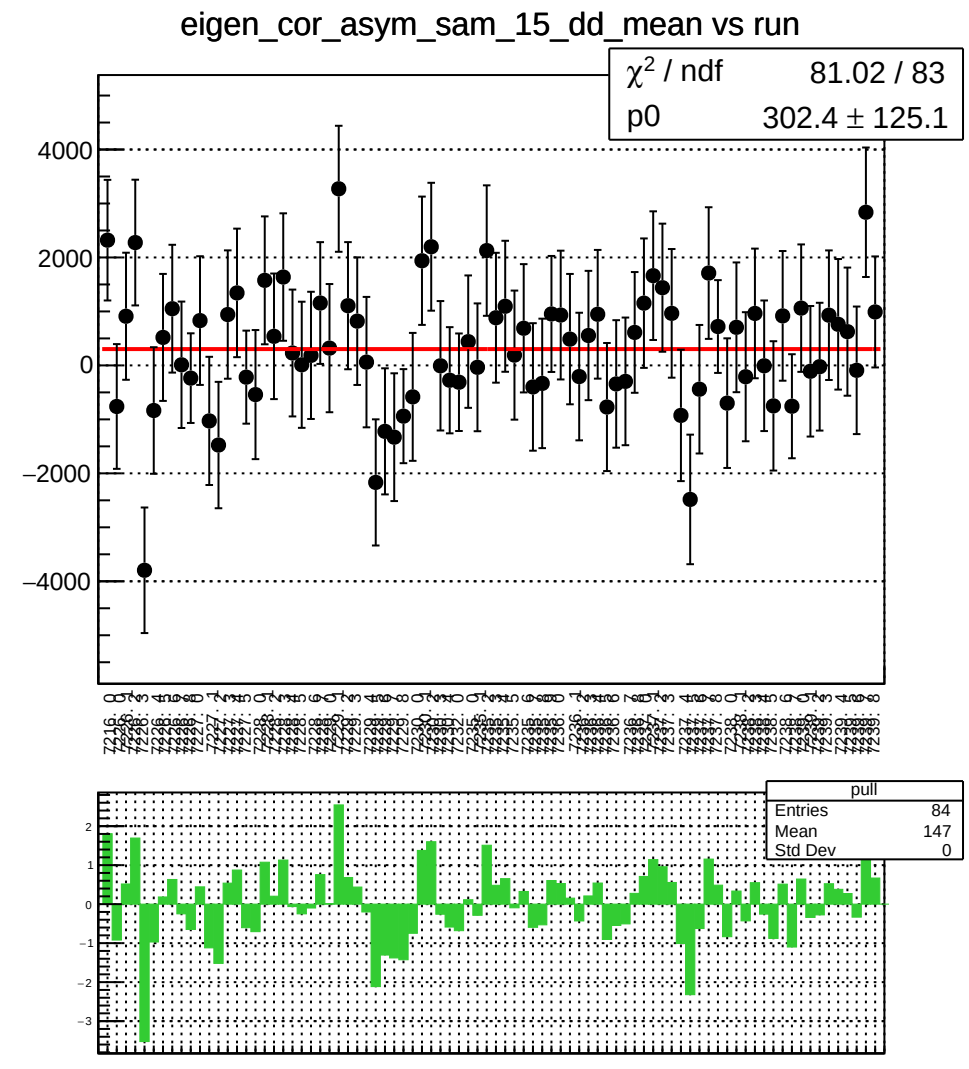

pull1D
Entries 84
Mean 0.01494
Std Dev 0.982
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

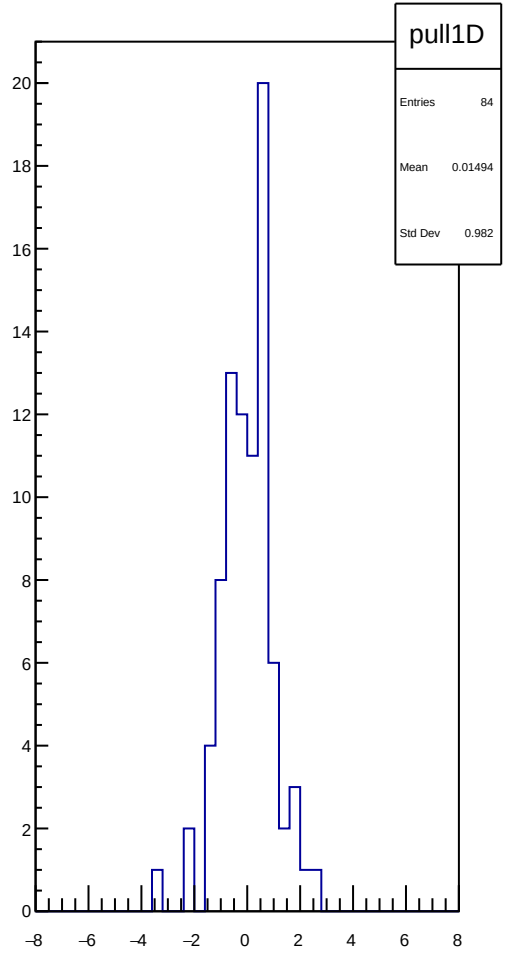

cor_asym_sam_15_dd_rms vs run
χ² / ndf 244 / 83
p0 112.8 ± 0.08844
118
116
114
112
110
108

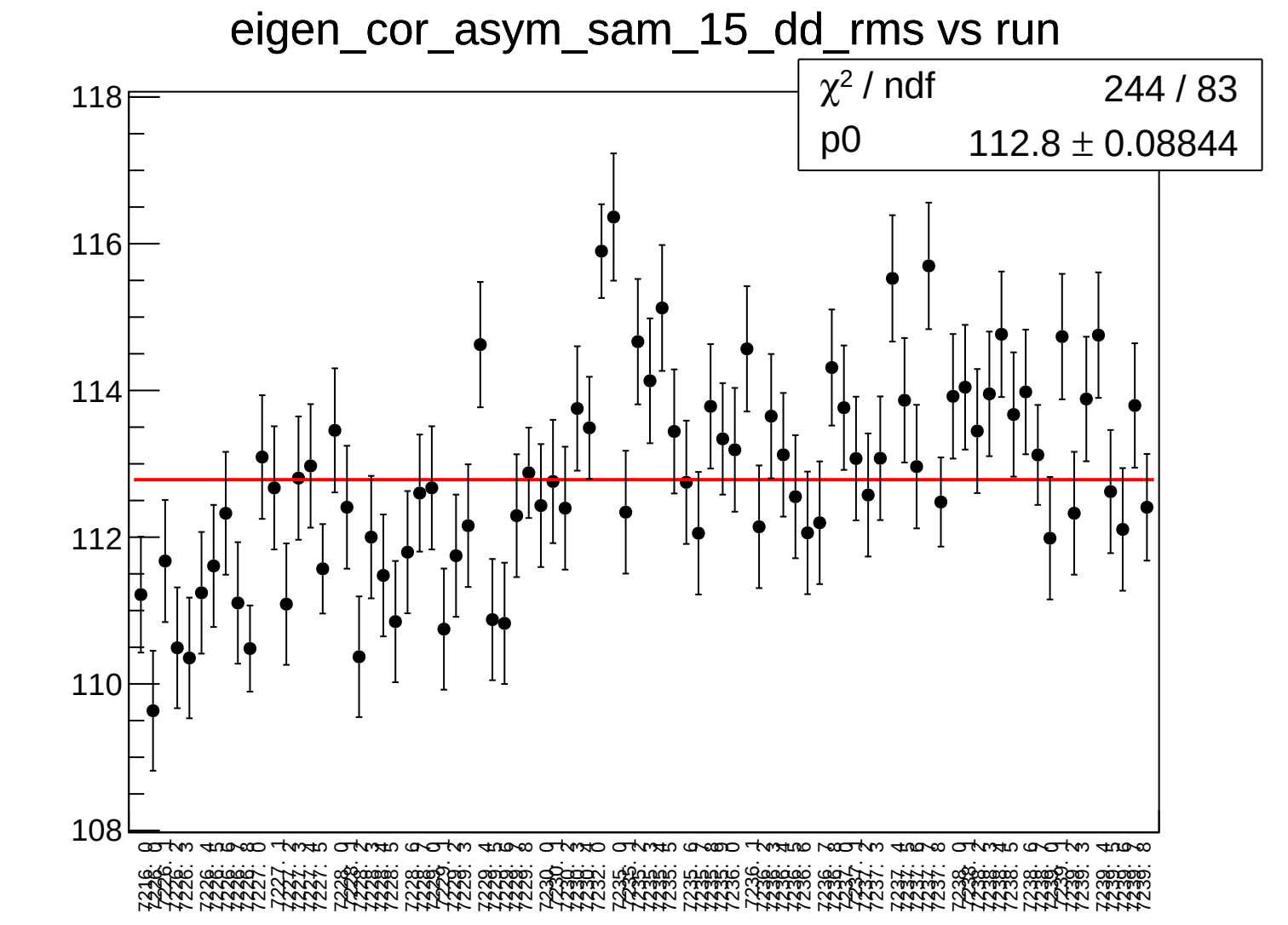

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 64.97 / 83
p0 −657.1± 704.3
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −260.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

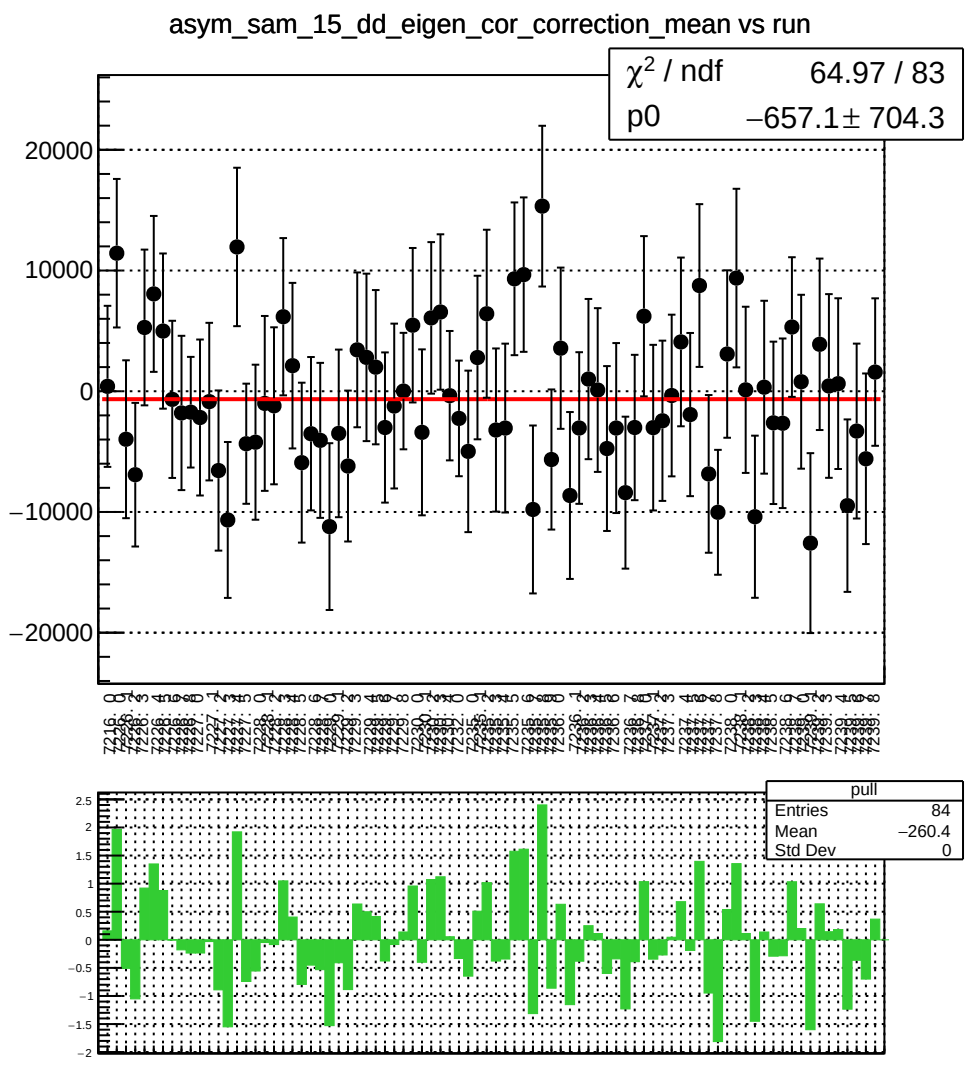

pull1D
Entries 84
Mean 0.006079
Std Dev 0.8794
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

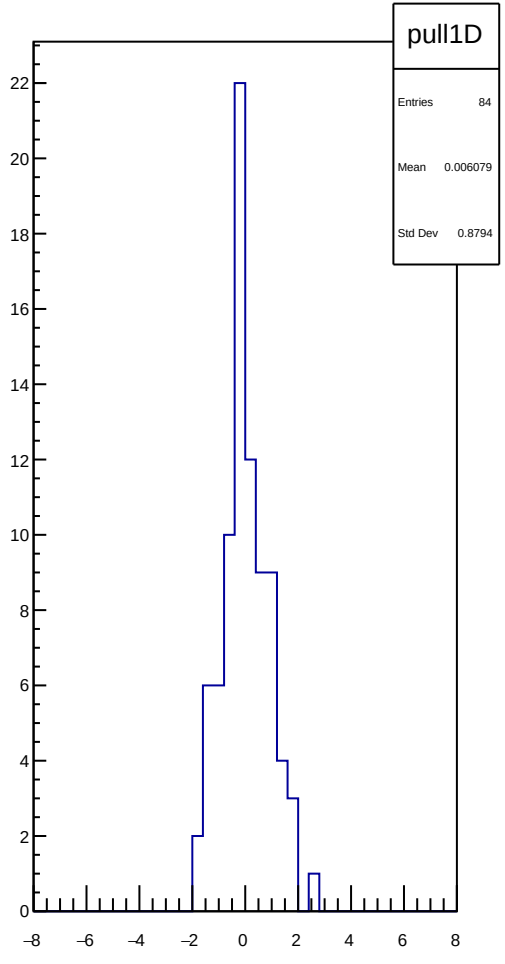

asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 3546 / 83
p0 634.5 ± 0.498
740
720
700
680
660
640
620
600
580
560

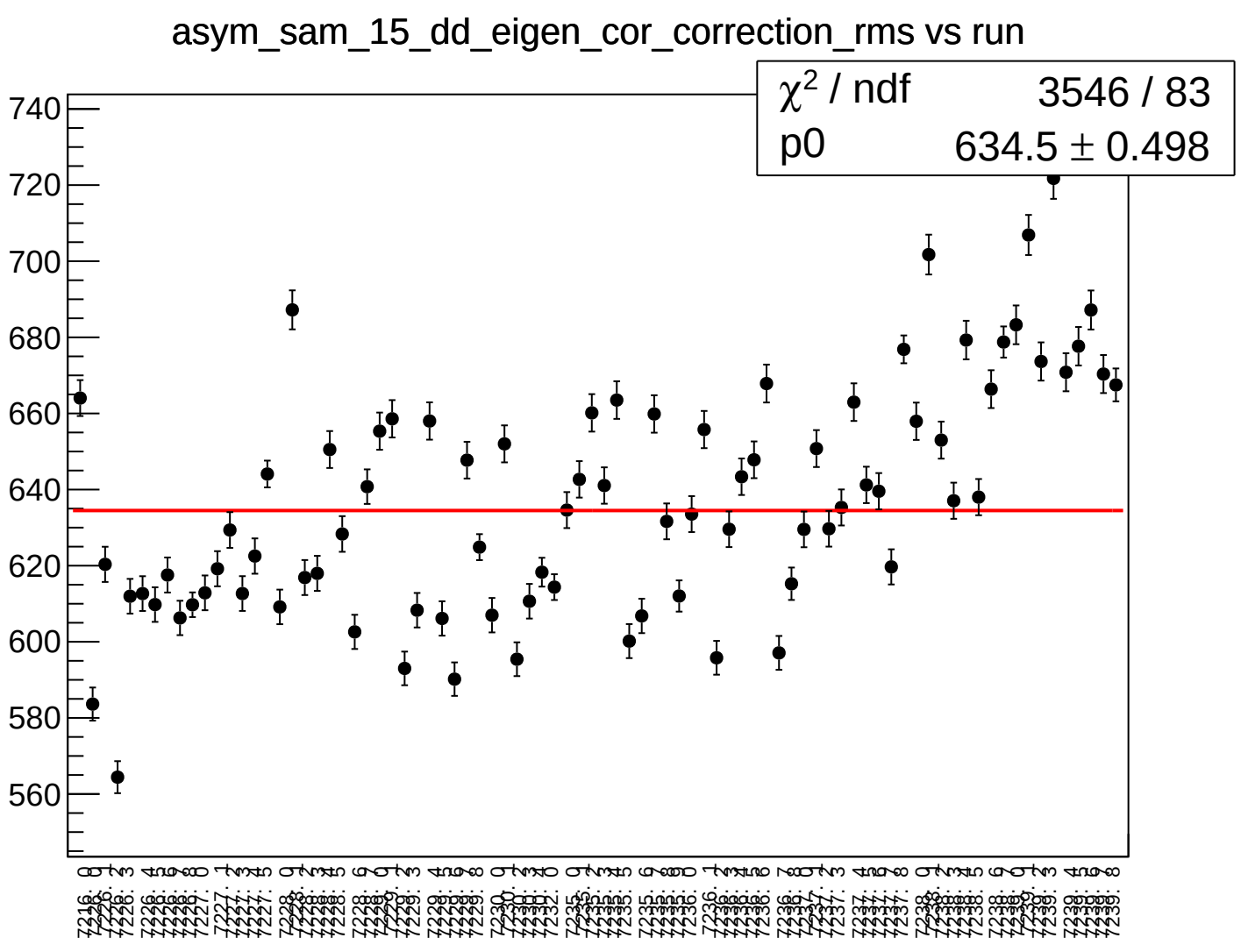

eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 81.02 / 83
p0 302.4 ± 125.1
4000
2000
0
−2000
−4000
pull
Entries 84
Mean 147
Std Dev 0
2
1
0
−1
−2
−3

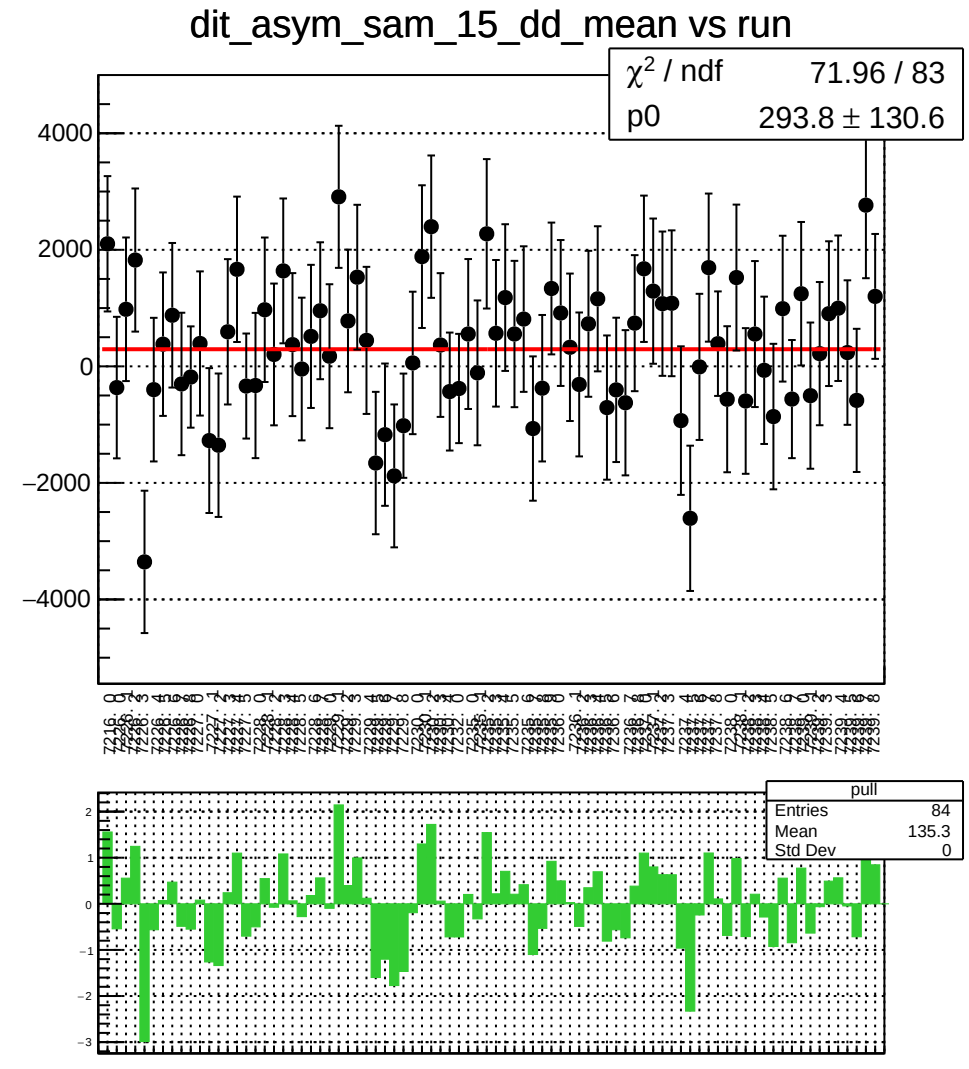

pull1D
Entries 84
Mean 0.01494
Std Dev 0.982
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

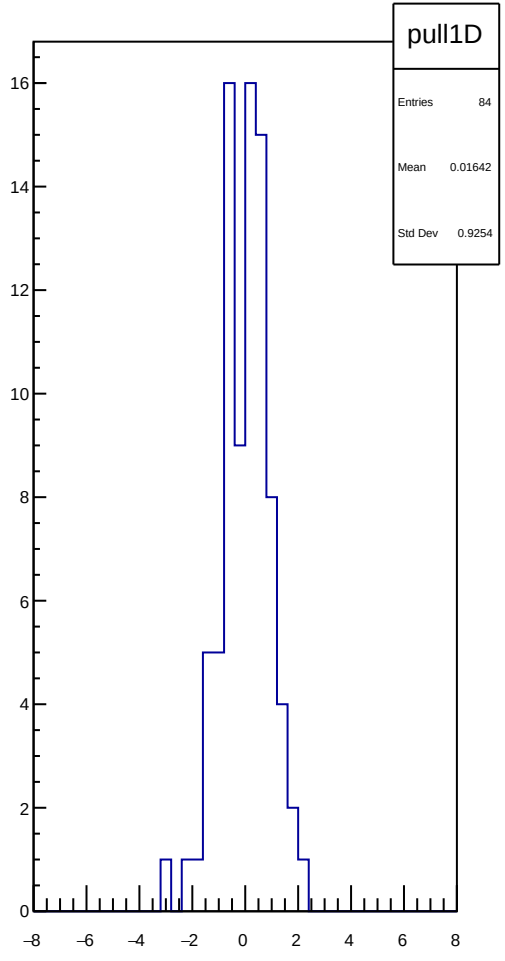

eigen_cor_asym_sam_15_dd_rms vs run
χ² / ndf 244 / 83
p0 112.8 ± 0.08844
118
116
114
112
110
108


asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 64.97 / 83
p0 −657.1± 704.3
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −260.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 84
Mean 0.006079
Std Dev 0.8794
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 3546 / 83
p0 634.5 ± 0.498
740
720
700
680
660
640
620
600
580
560


dit_asym_sam_15_dd_mean vs run
χ² / ndf 71.96 / 83
p0 293.8 ± 130.6
4000
2000
0
−2000
−4000
pull
Entries 84
Mean 135.3
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 84
Mean 0.01642
Std Dev 0.9254
16
14
12
10
8
6
4
2
0
−8
−6
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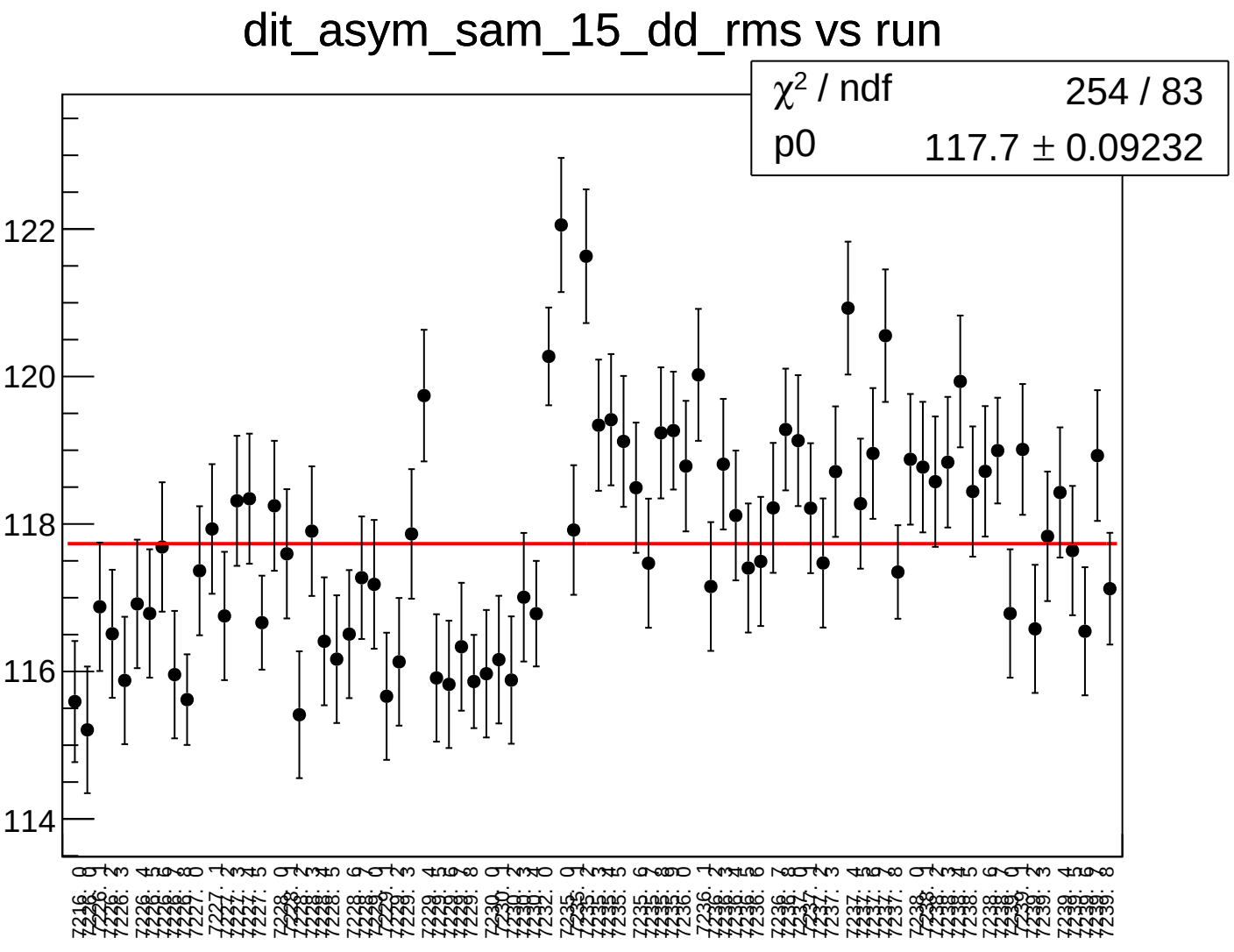
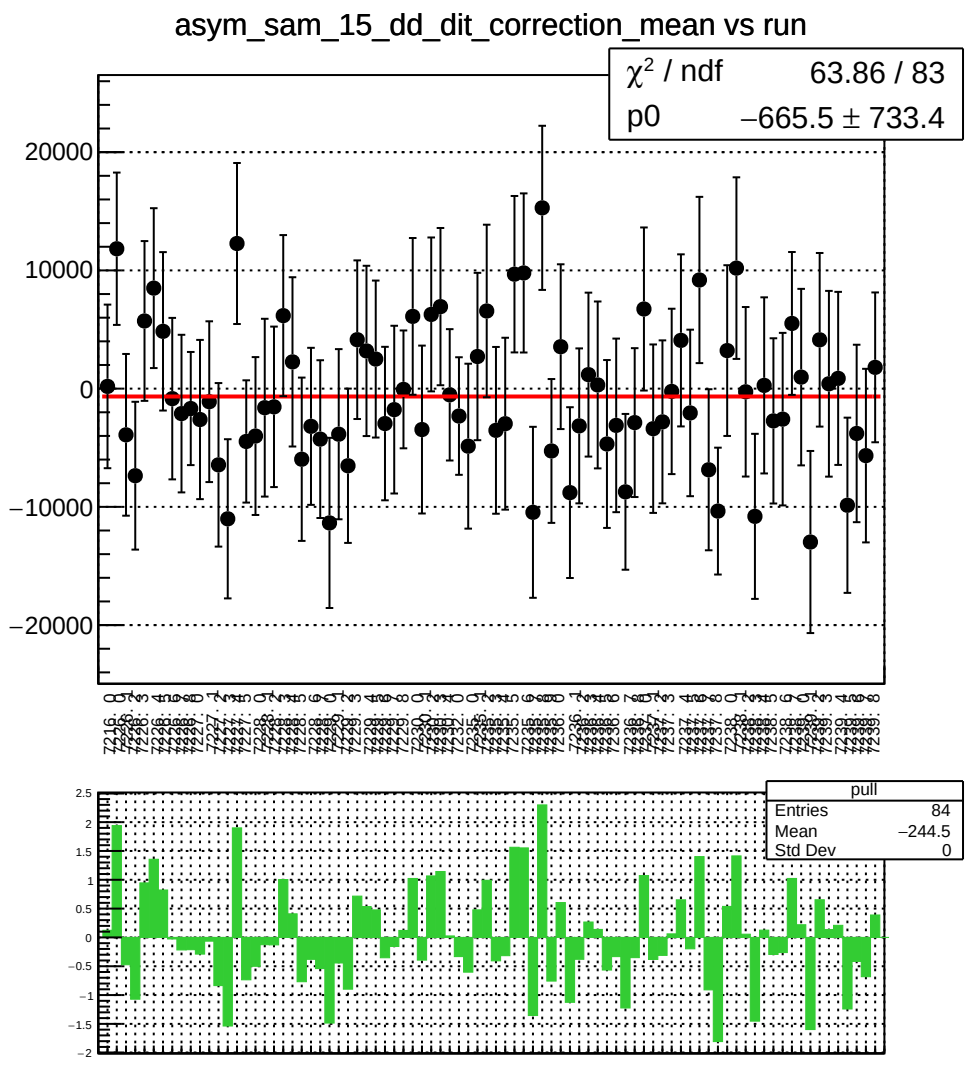
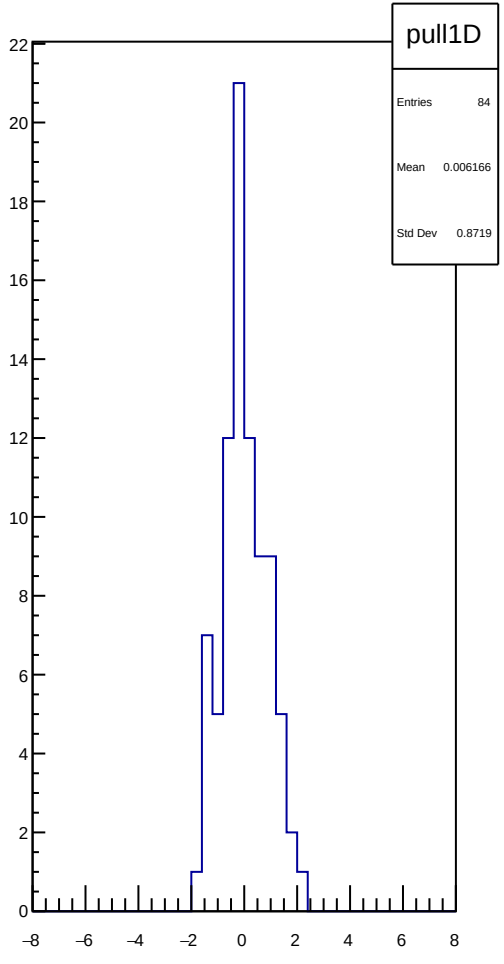
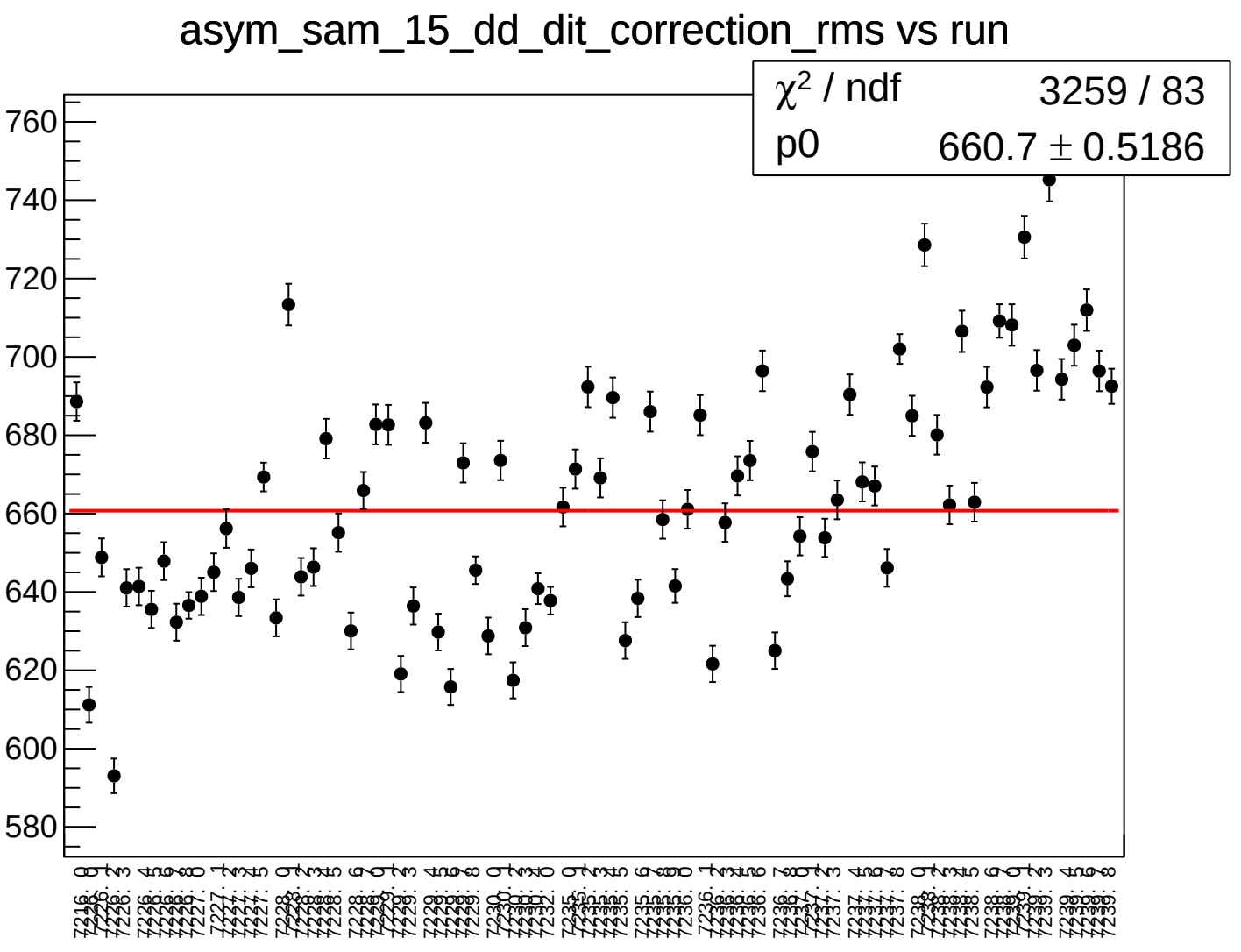
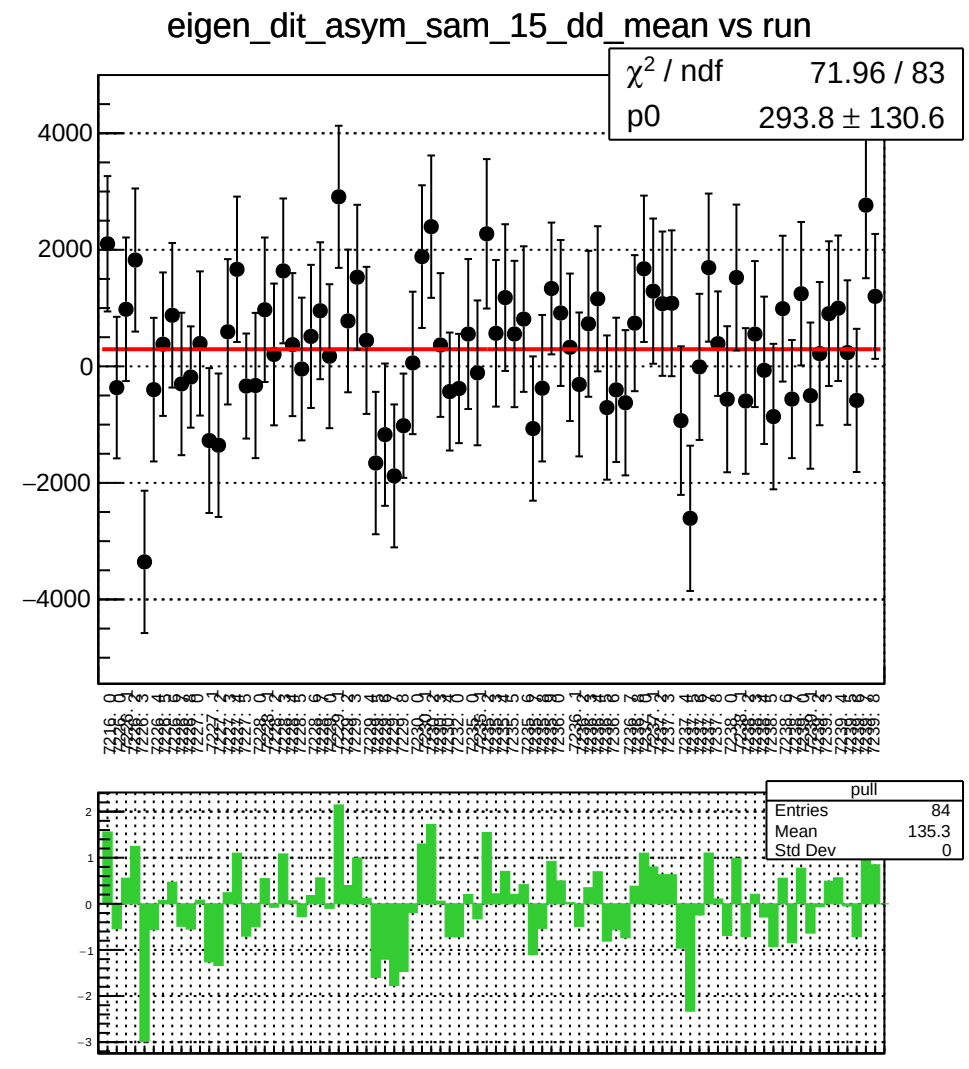
0
2
4
6
8

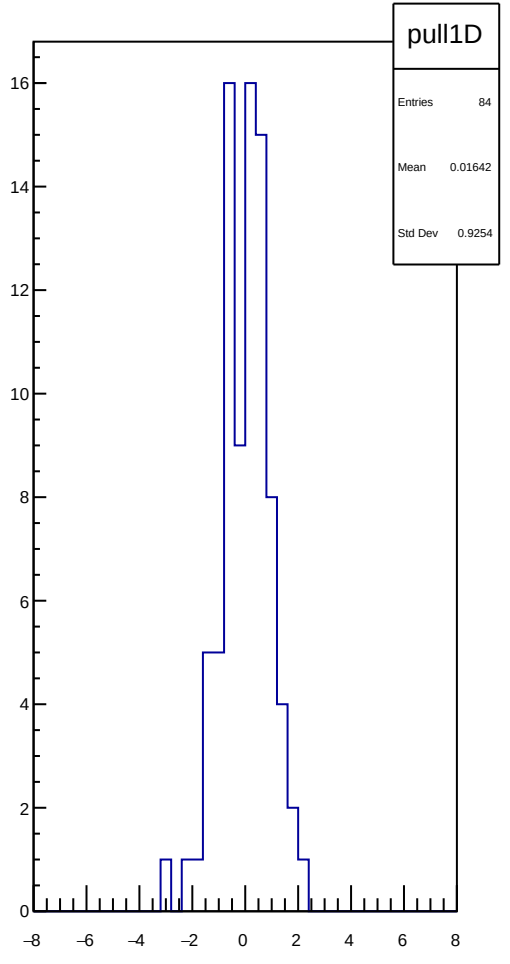

dit_asym_sam_15_dd_rms vs run
χ^2 / ndf 254 / 83
p0 117.7 ± 0.09232
122
120
118
116
114

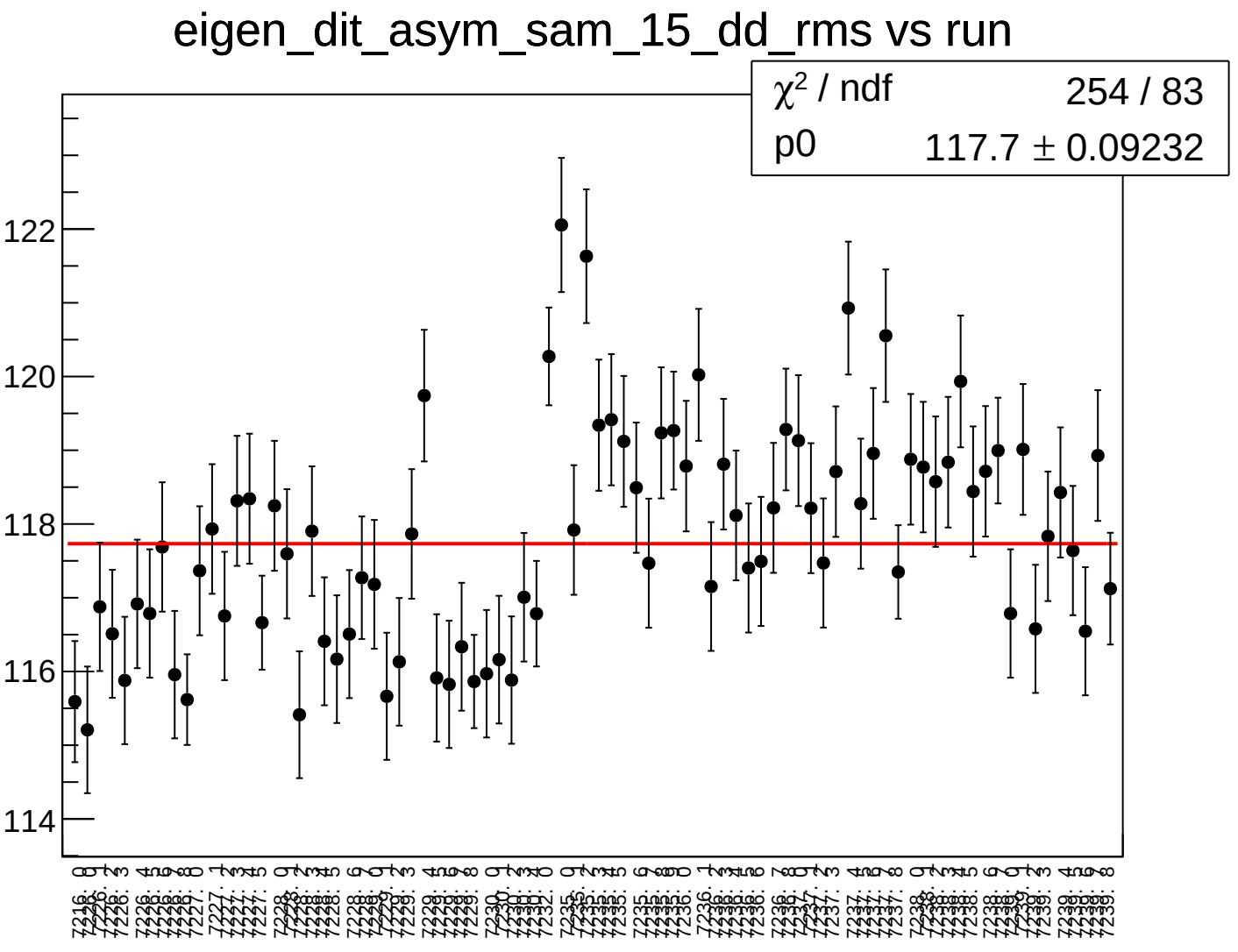

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 63.86 / 83
p0 −665.5 ± 733.4
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −244.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 84
Mean 0.006166
Std Dev 0.8719
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

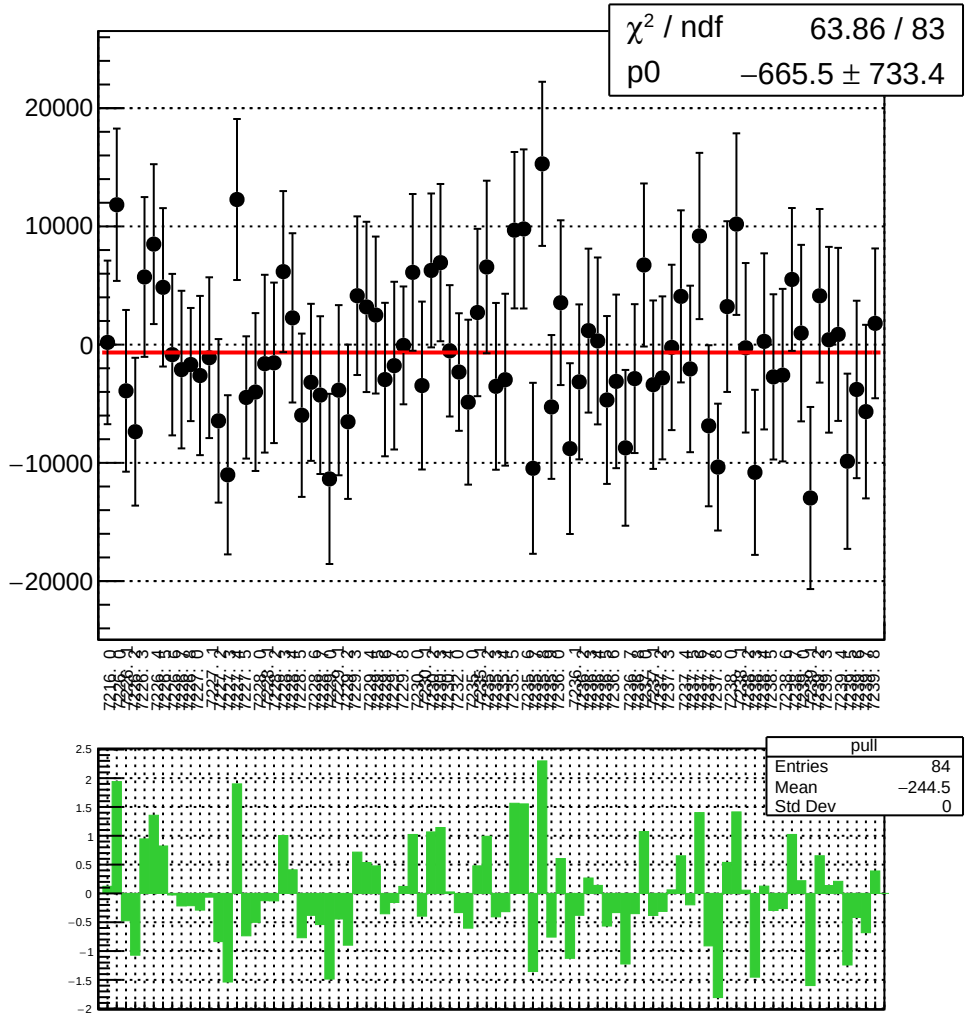

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 3259 / 83
p0 660.7 ± 0.5186
760
740
720
700
680
660
640
620
600
580

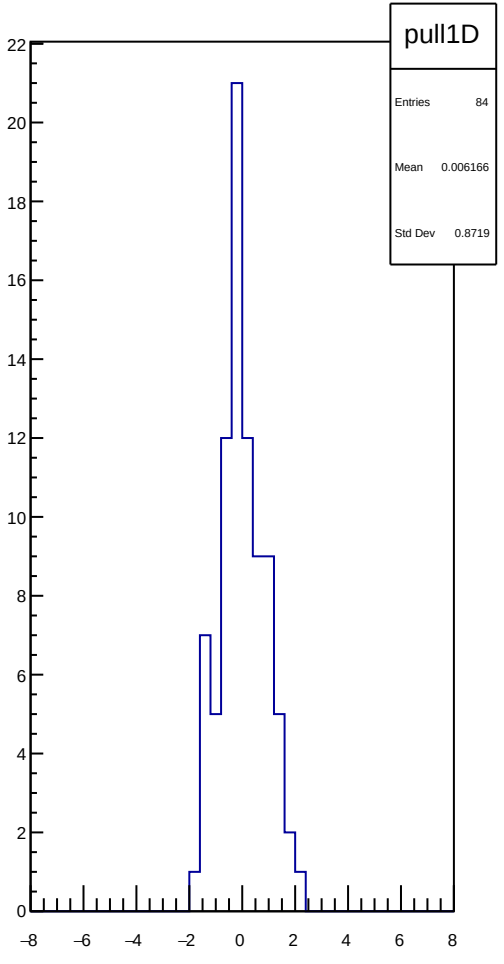

eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 71.96 / 83
p0 293.8 ± 130.6
4000
2000
0
−2000
−4000
pull
Entries 84
Mean 135.3
Std Dev 0
2
1
0
−1
−2
−3

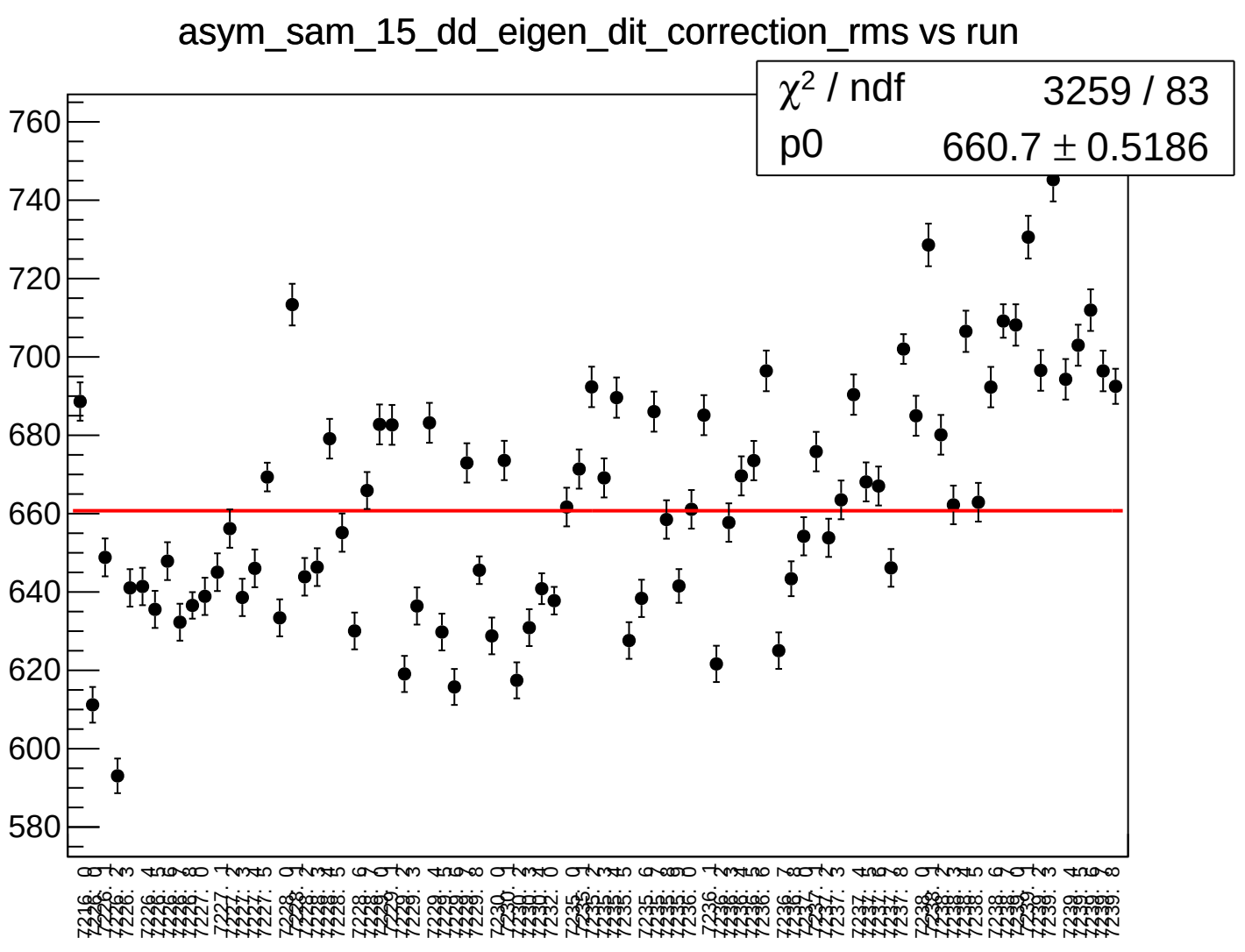

pull1D
Entries 84
Mean 0.01642
Std Dev 0.9254
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

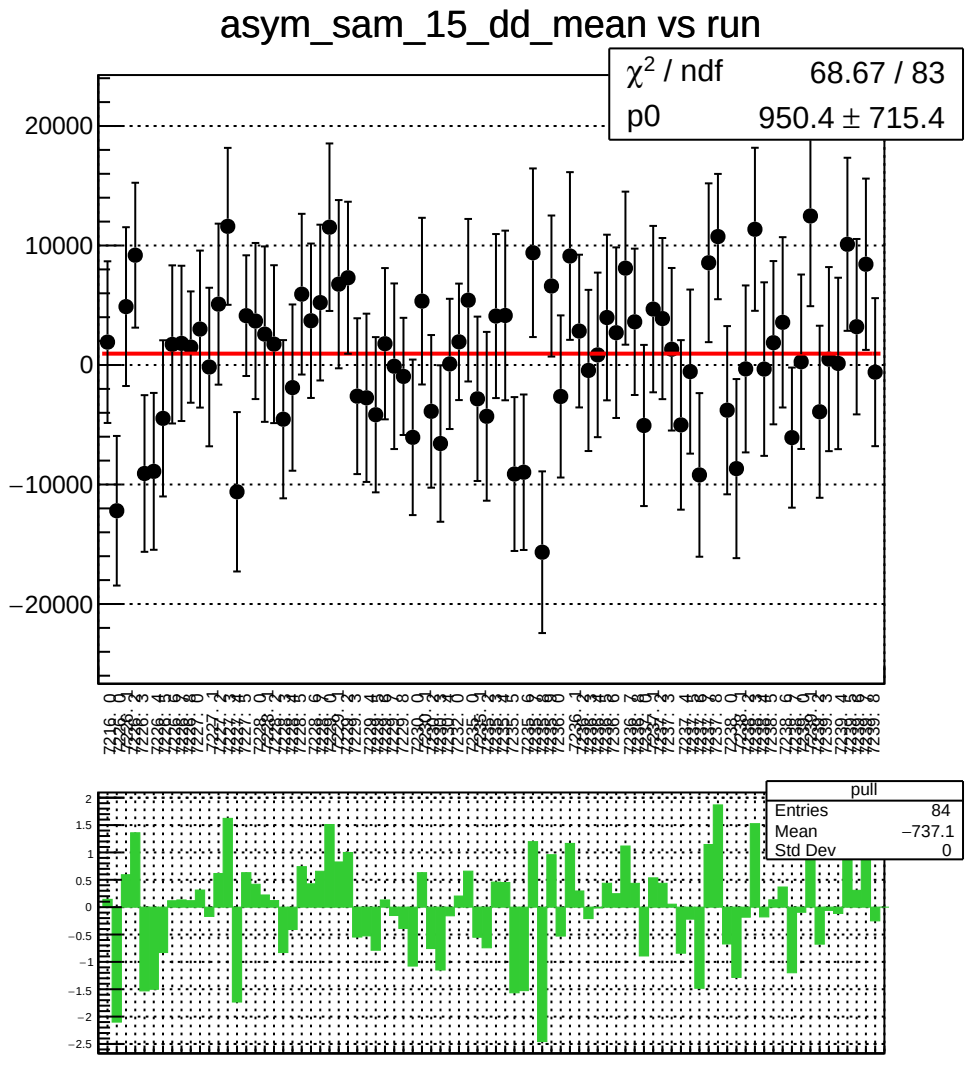

eigen_dit_asym_sam_15_dd_rms vs run
χ² / ndf 254 / 83
p0 117.7 ± 0.09232
122
120
118
116
114

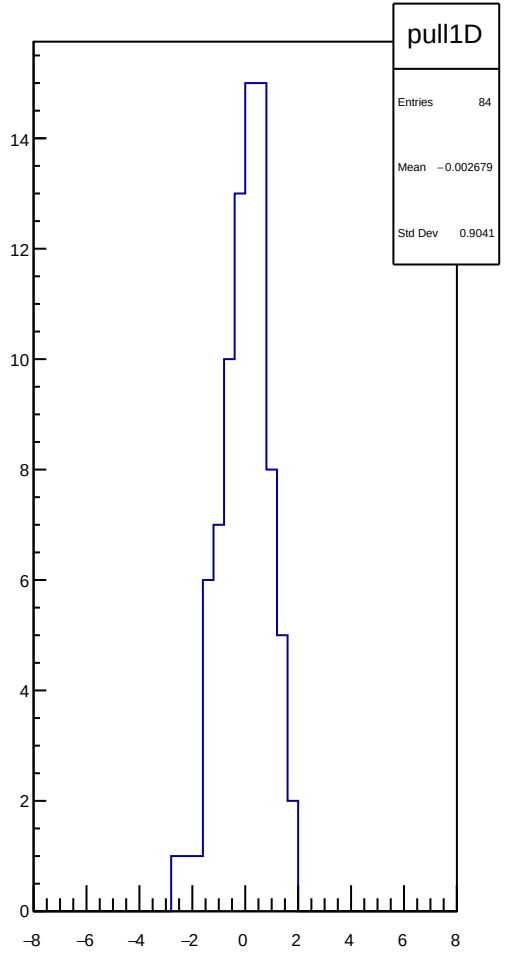
asym_sam_15_dd_eigen_dit_correction_mean vs run

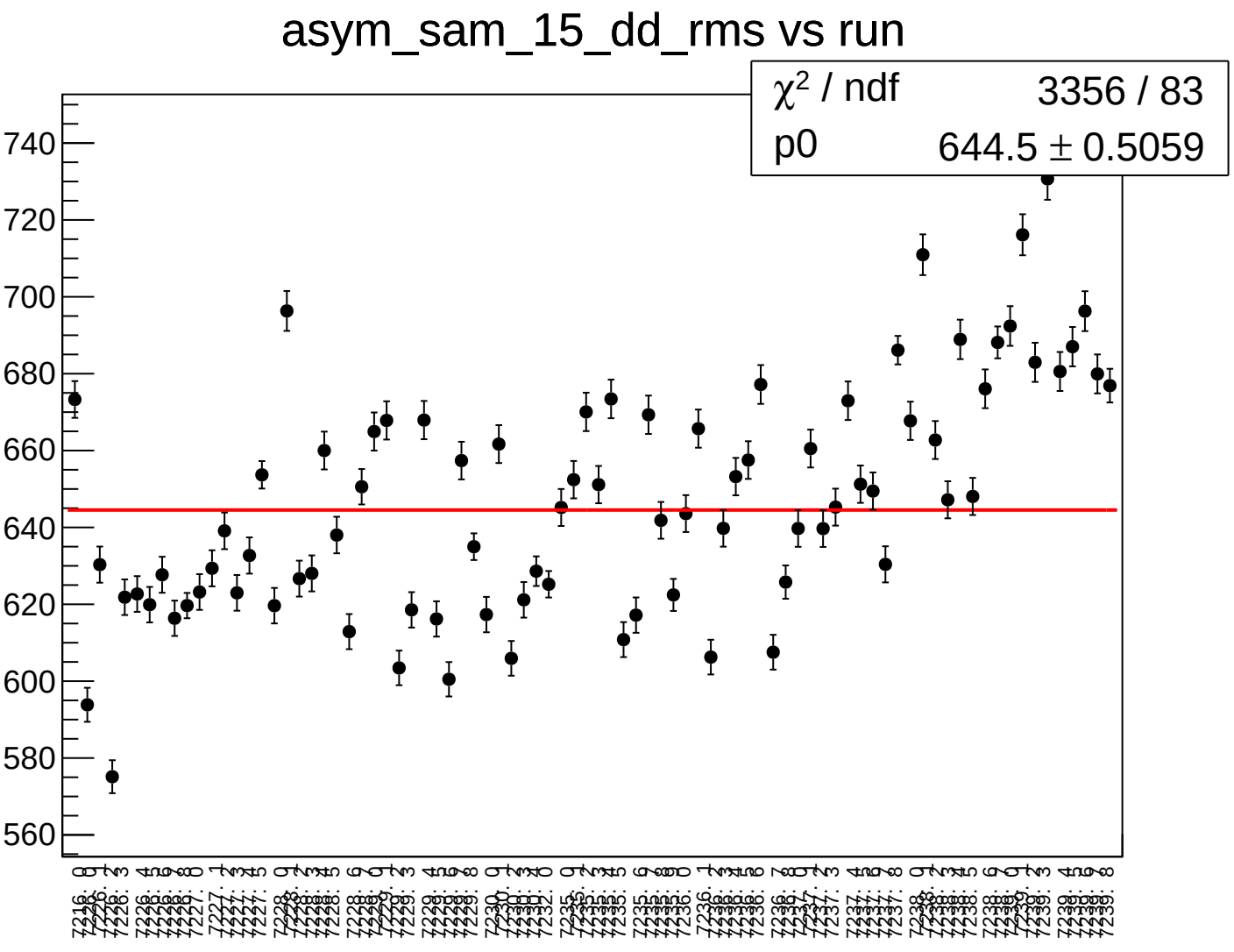


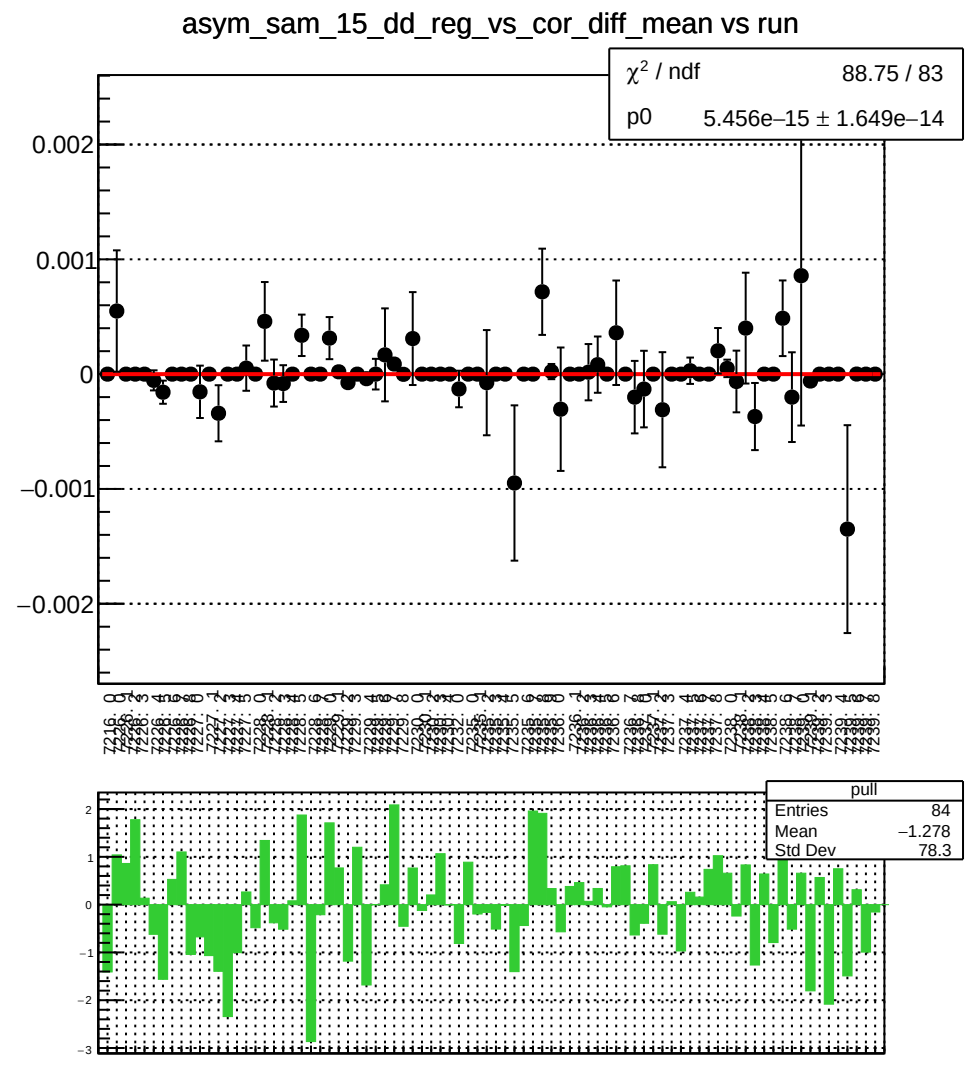


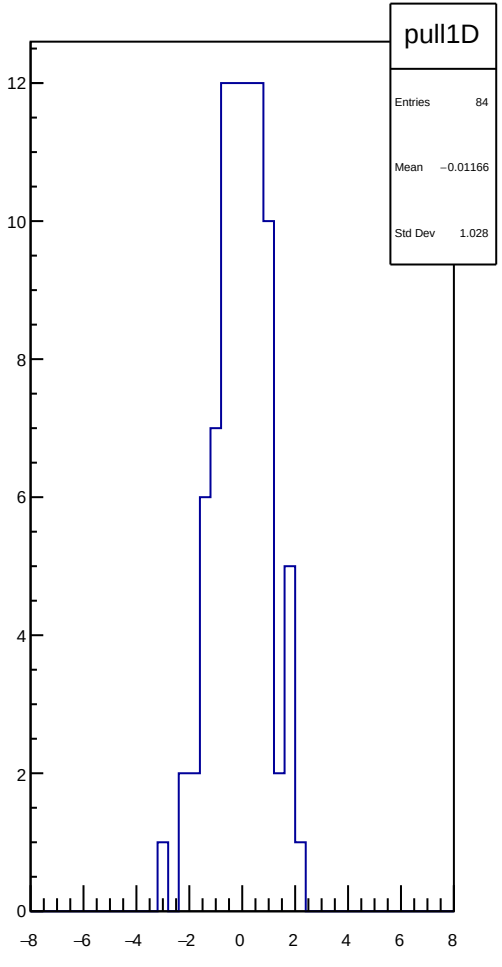

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 3259 / 83
p0 660.7 ± 0.5186
760
740
720
700
680
660
640
620
600
580

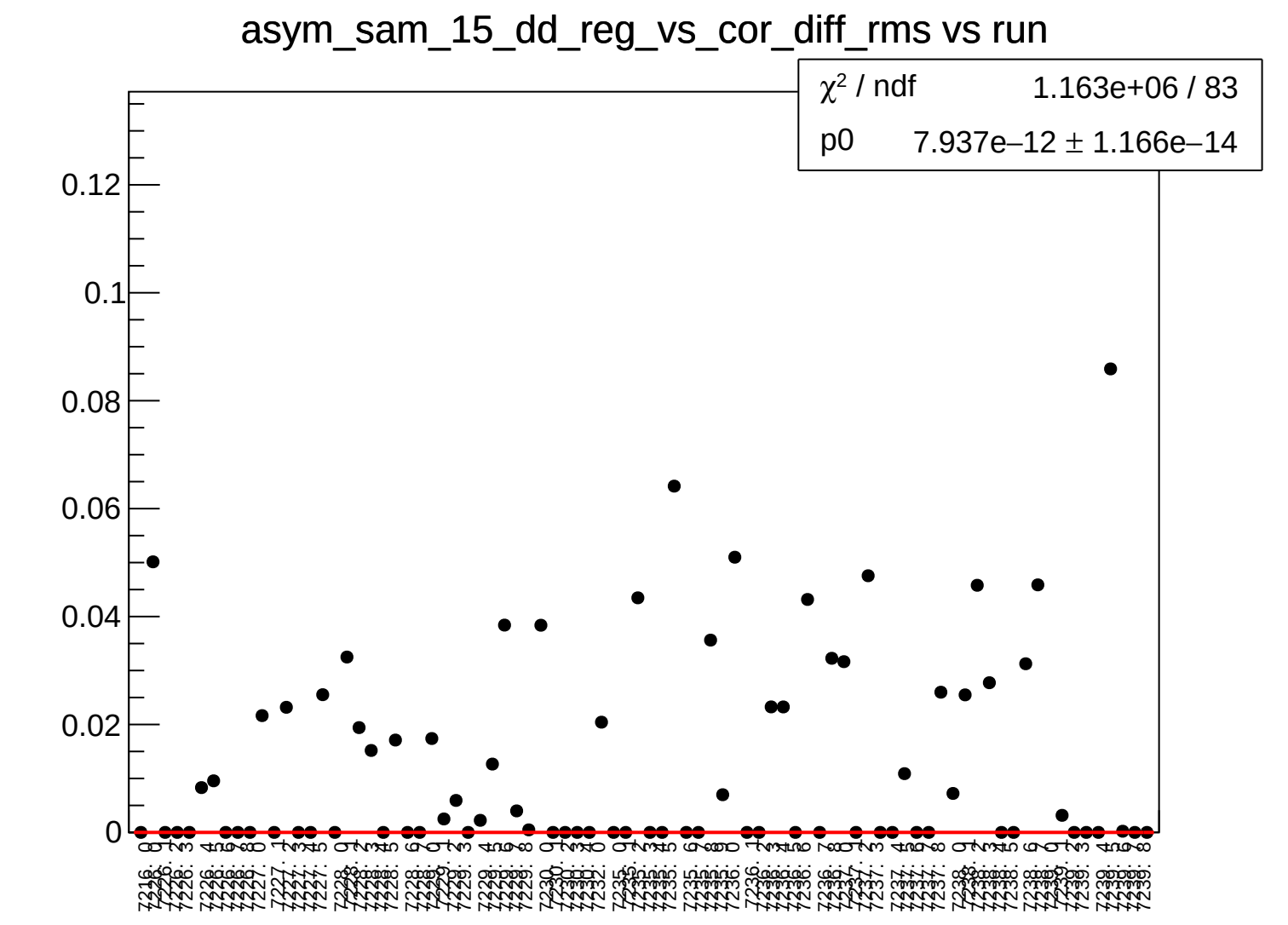

asym_sam_15_dd_mean vs run
χ² / ndf 68.67 / 83
p0 950.4 ± 715.4
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −737.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

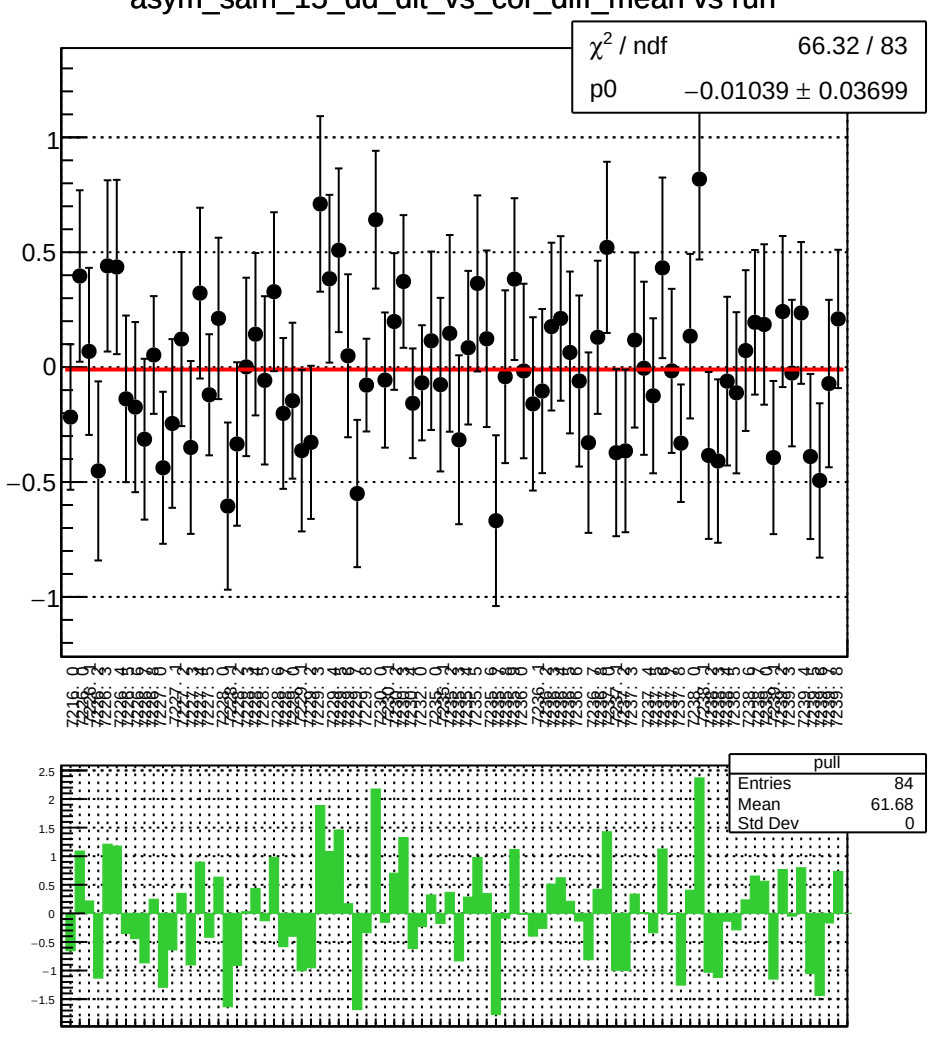

pull1D
Entries 84
Mean −0.002679
Std Dev 0.9041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

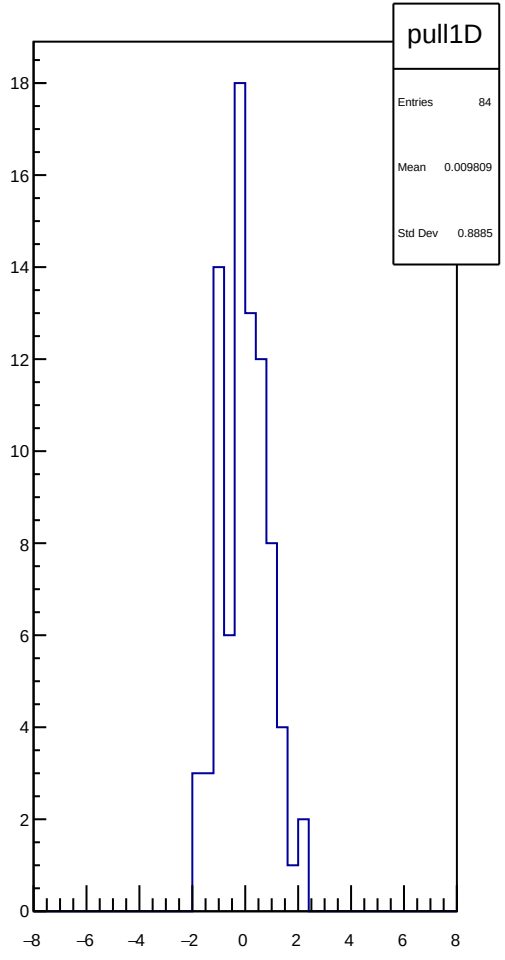

asym_sam_15_dd_rms vs run
χ² / ndf 3356 / 83
p0 644.5 ± 0.5059
740
720
700
680
660
640
620
600
580
560

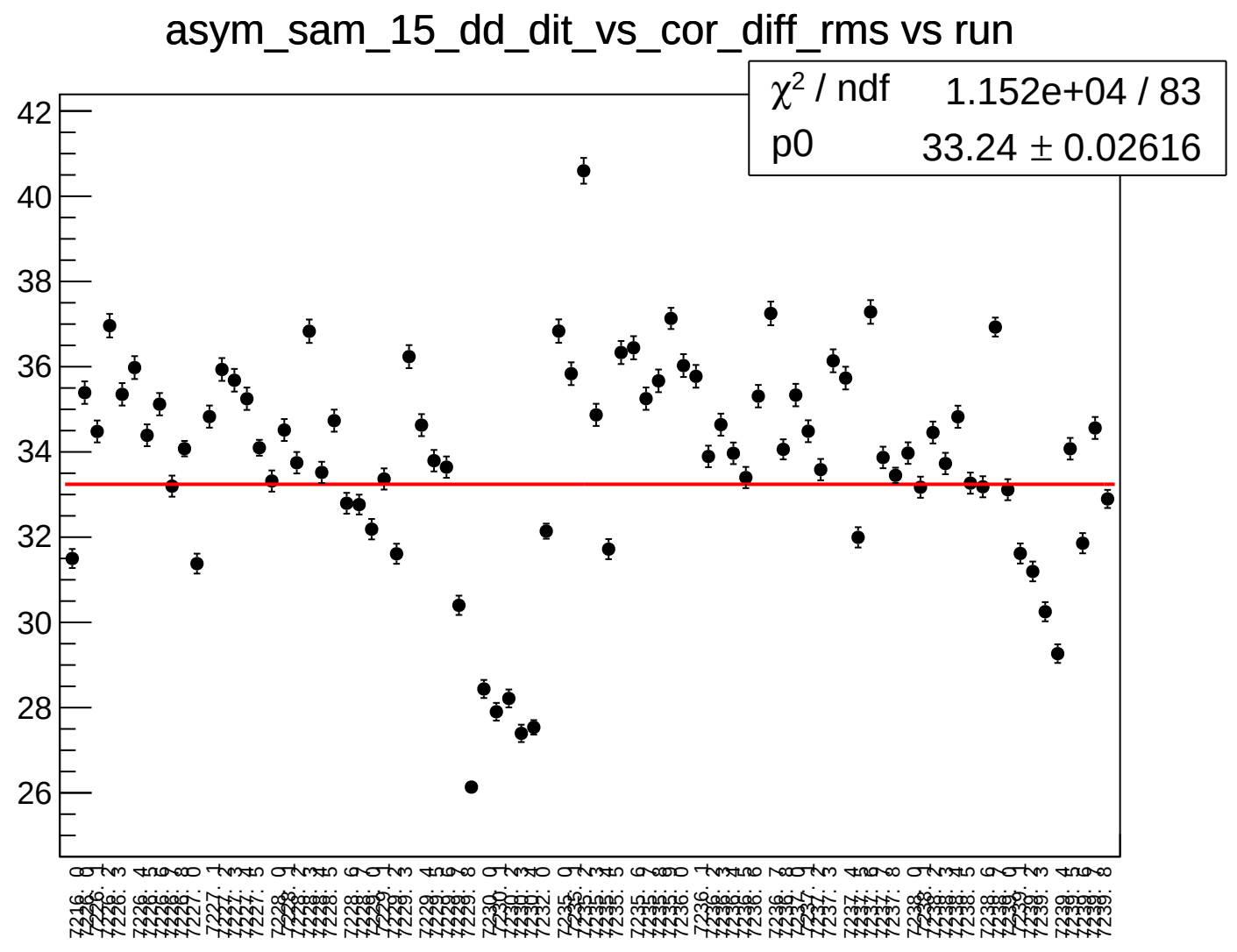

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 88.75 / 83
p0 5.456e−15 ± 1.649e−14
0.002
0.001
0
−0.001
−0.002
pull
Entries 84
Mean −1.278
Std Dev 78.3
2
1
0
−1
−2
−3

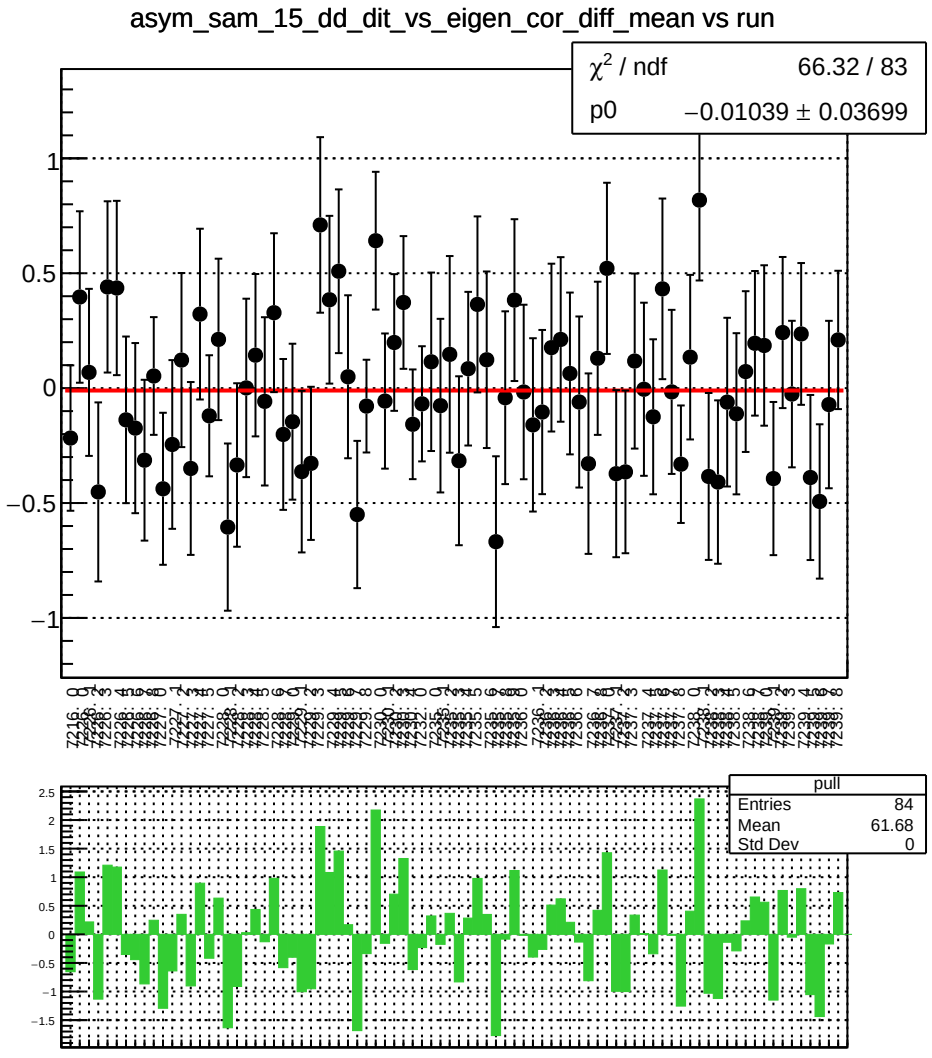

pull1D
Entries 84
Mean −0.01166
Std Dev 1.028
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

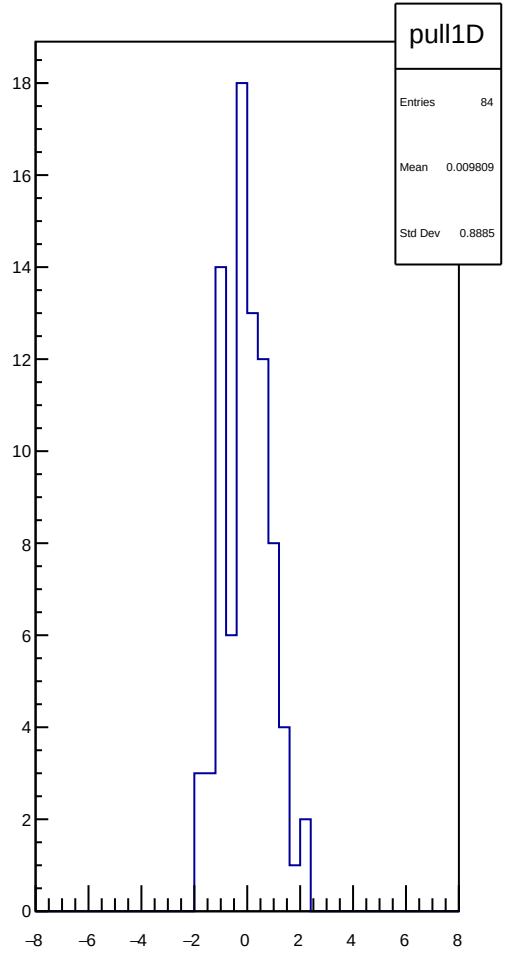

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.163e+06 / 83
p0 7.937e−12 ± 1.166e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

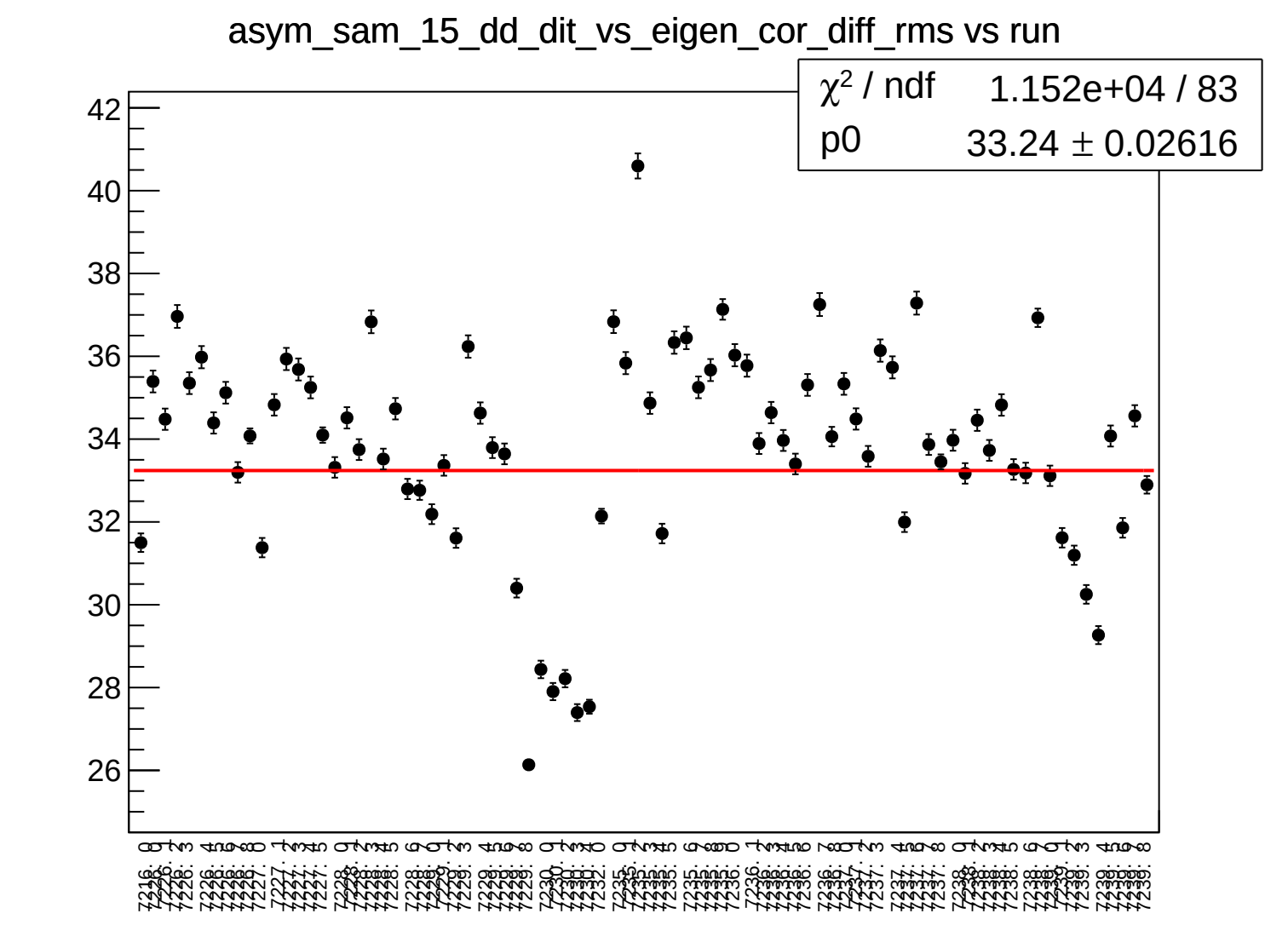

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 66.32 / 83
p0 −0.01039 ± 0.03699
pull
Entries 84
Mean 61.68
Std Dev 0

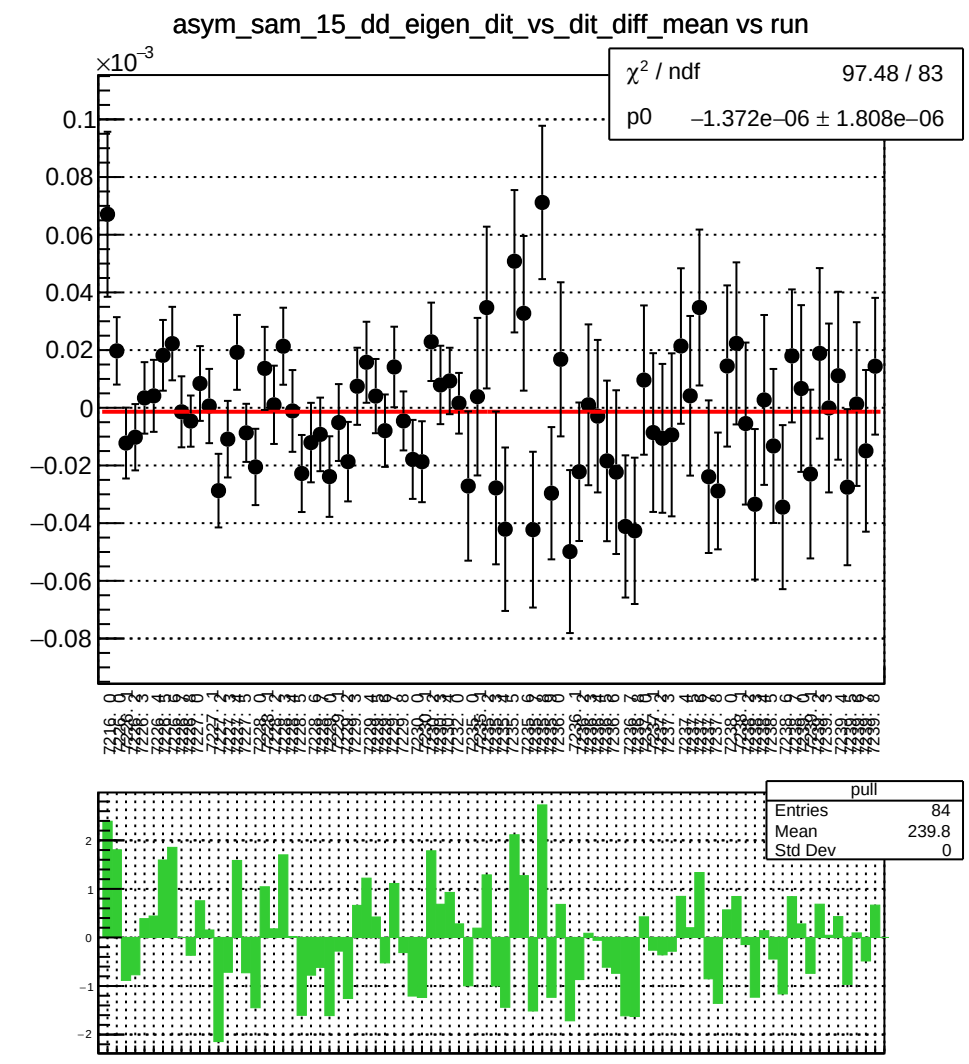

pull1D
Entries 84
Mean 0.009809
Std Dev 0.8885

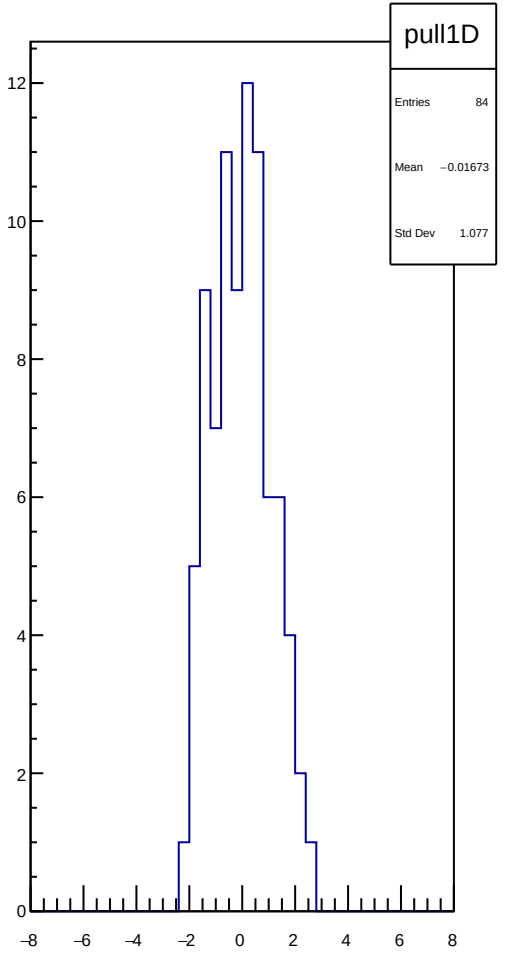

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.152e+04 / 83
p0 33.24 ± 0.02616
42
40
38
36
34
32
30
28
26

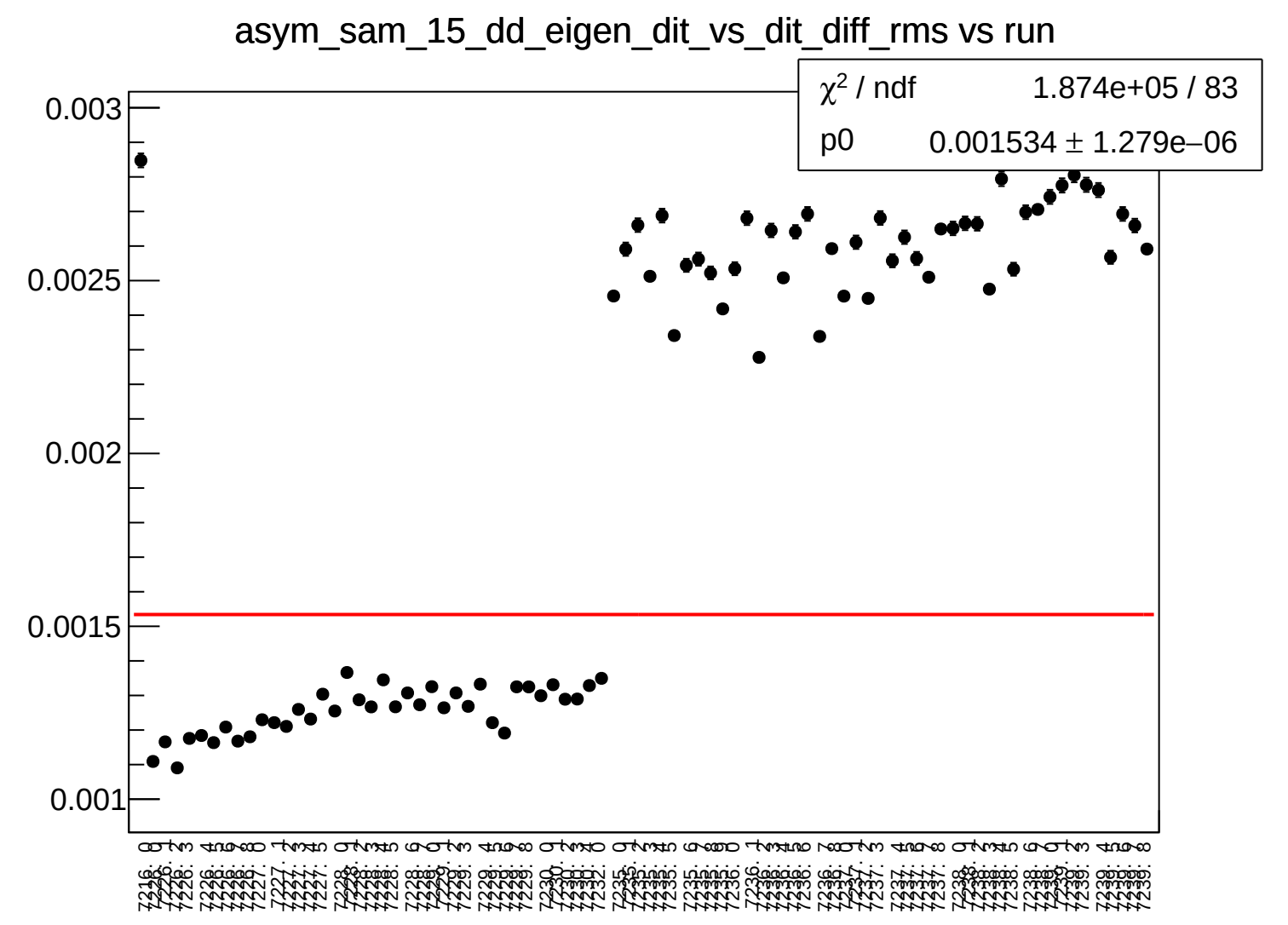

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.32 / 83
p0 −0.01039 ± 0.03699
pull
Entries 84
Mean 61.68
Std Dev 0

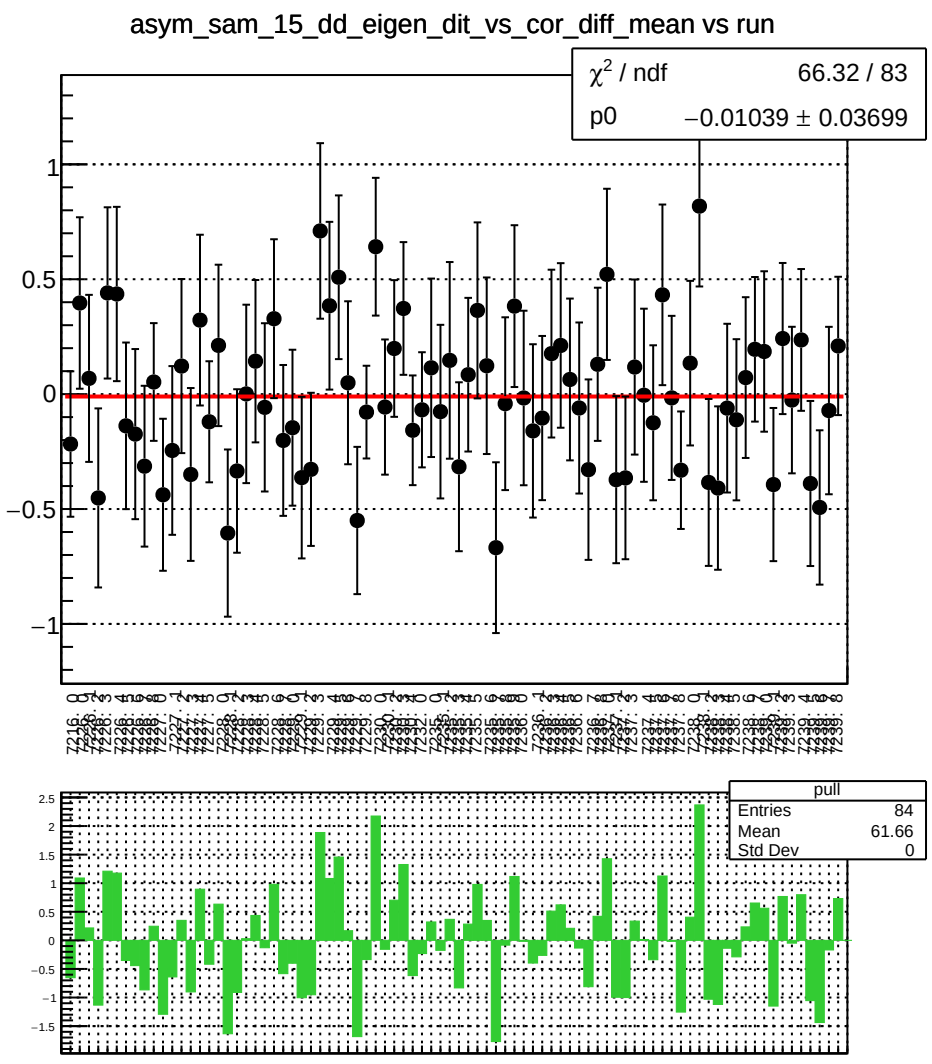

pull1D
Entries 84
Mean 0.009809
Std Dev 0.8885

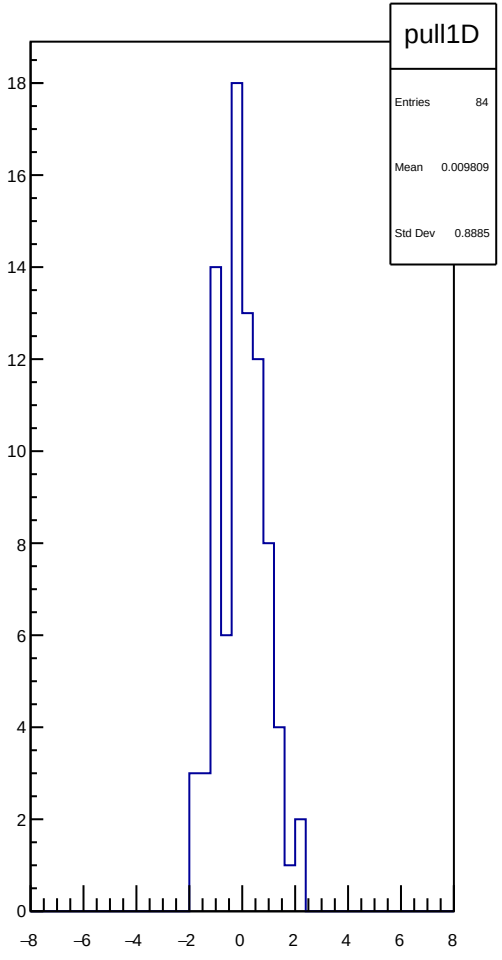

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.152e+04 / 83
p0 33.24 ± 0.02616
42
40
38
36
34
32
30
28
26

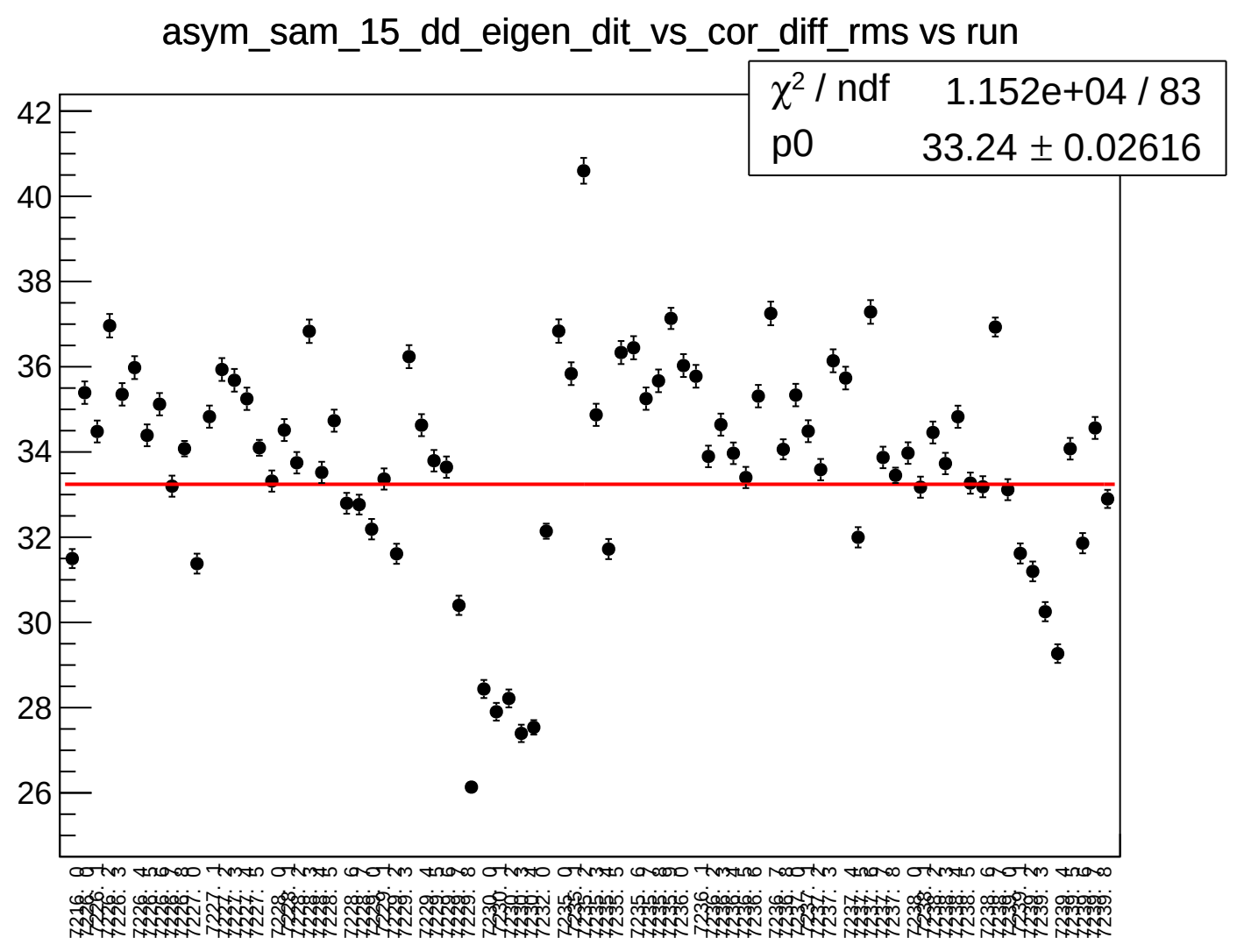

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.48 / 83
p0 −1.372e−06 ± 1.808e−06
pull
Entries 84
Mean 239.8
Std Dev 0

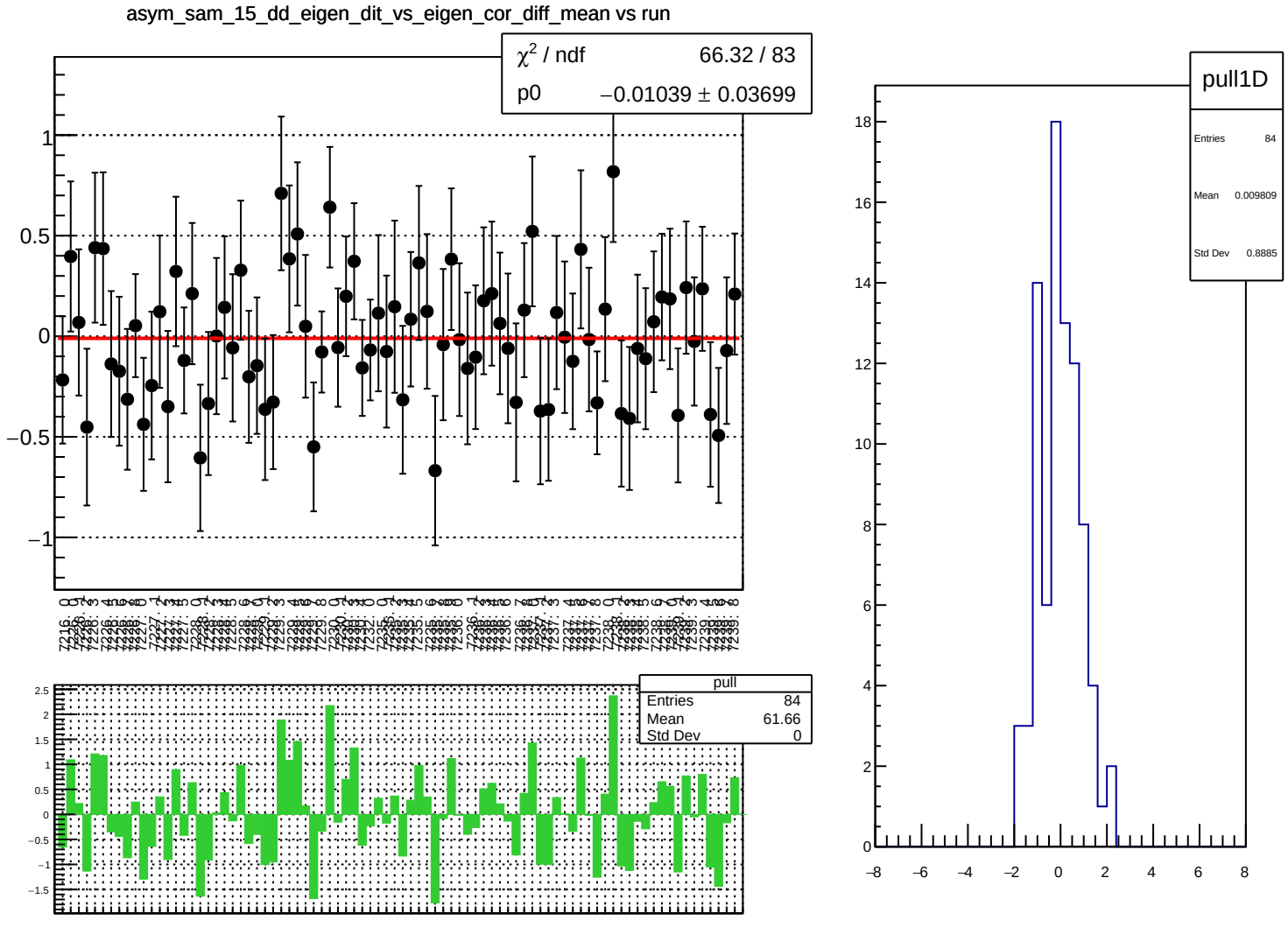

pull1D
Entries 84
Mean −0.01673
Std Dev 1.077

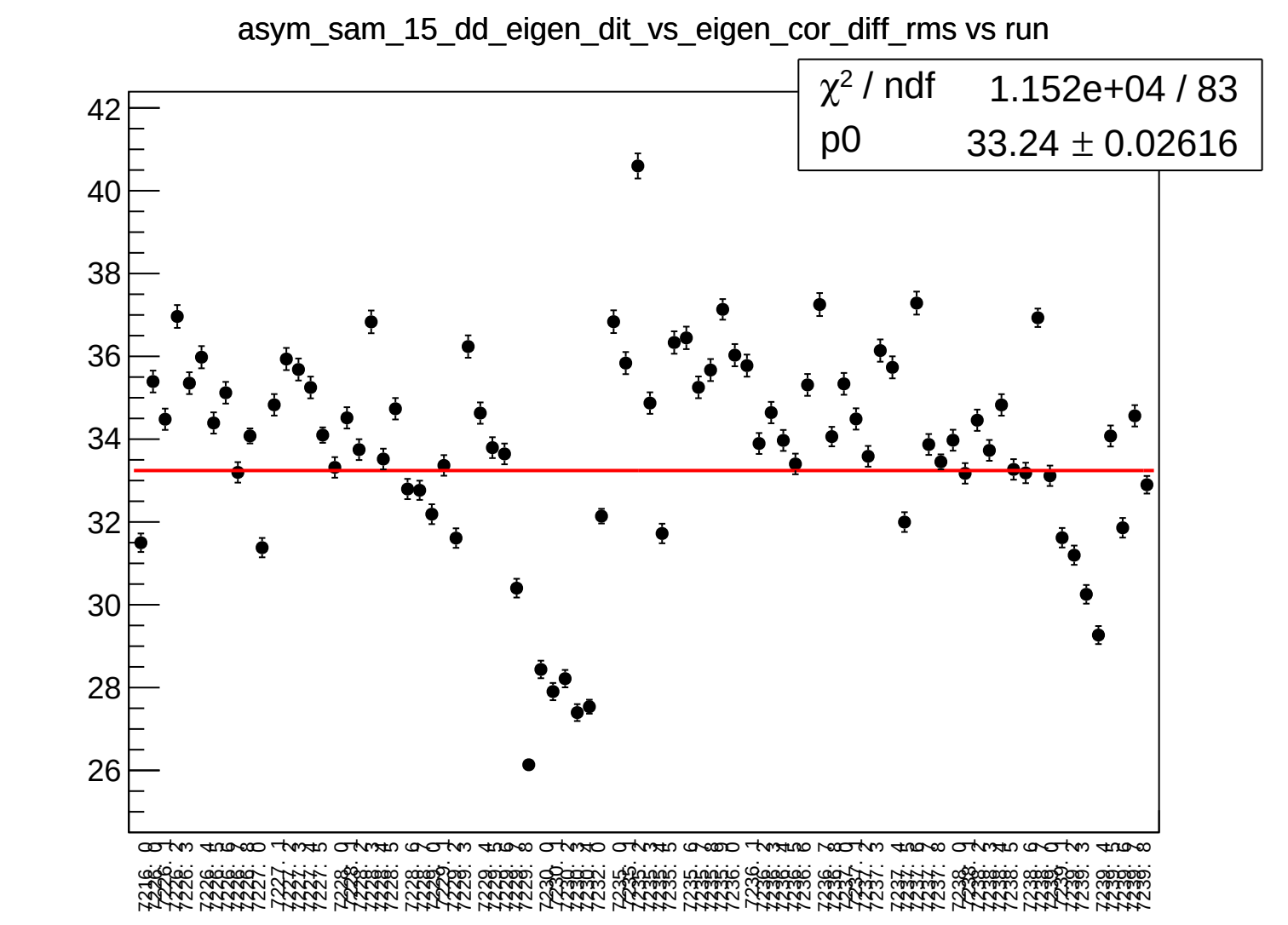

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.874e+05 / 83
p0 0.001534 ± 1.279e−06
0.003
0.0025
0.002
0.0015
0.001

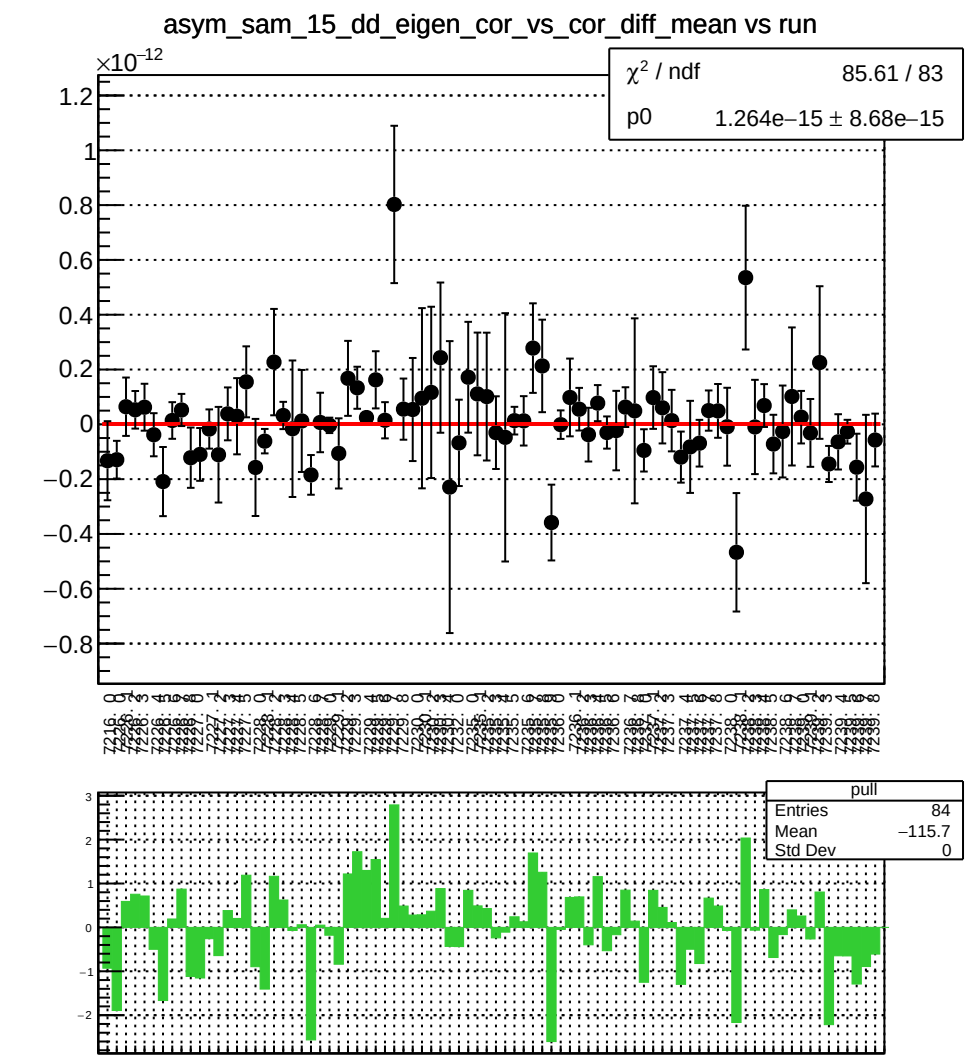

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 66.32 / 83
p0 −0.01039 ± 0.03699
pull
Entries 84
Mean 61.66
Std Dev 0

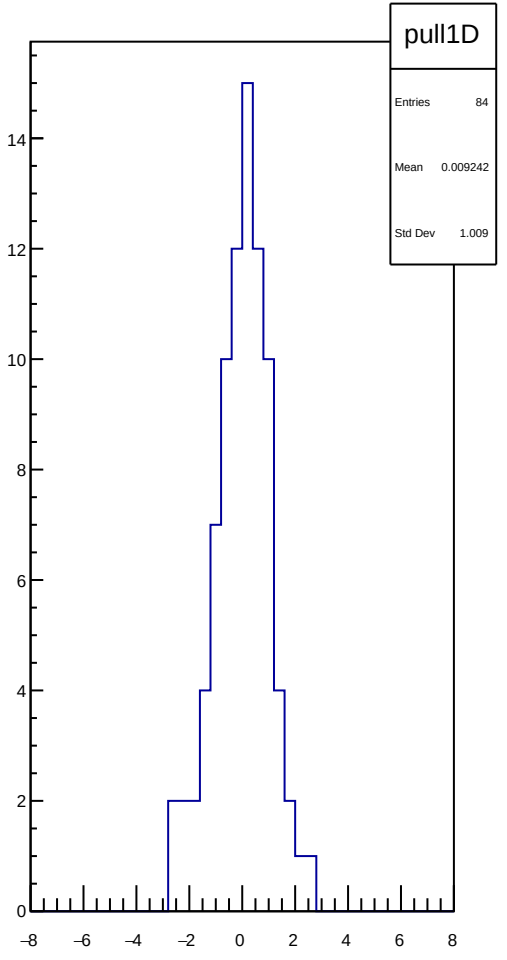

pull1D
Entries 84
Mean 0.009809
Std Dev 0.8885

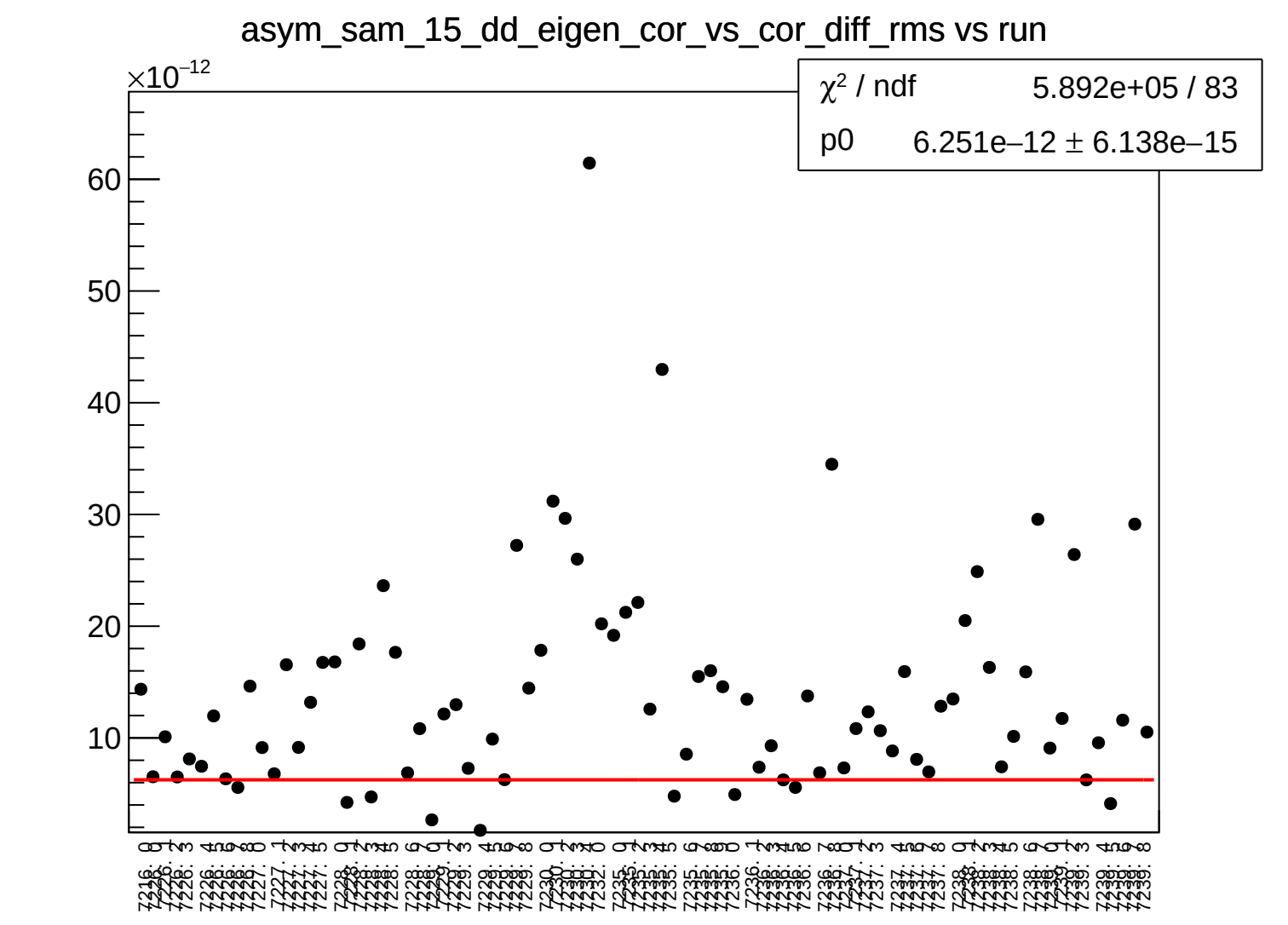

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.152e+04 / 83
p0 33.24 ± 0.02616
42
40
38
36
34
32
30
28
26

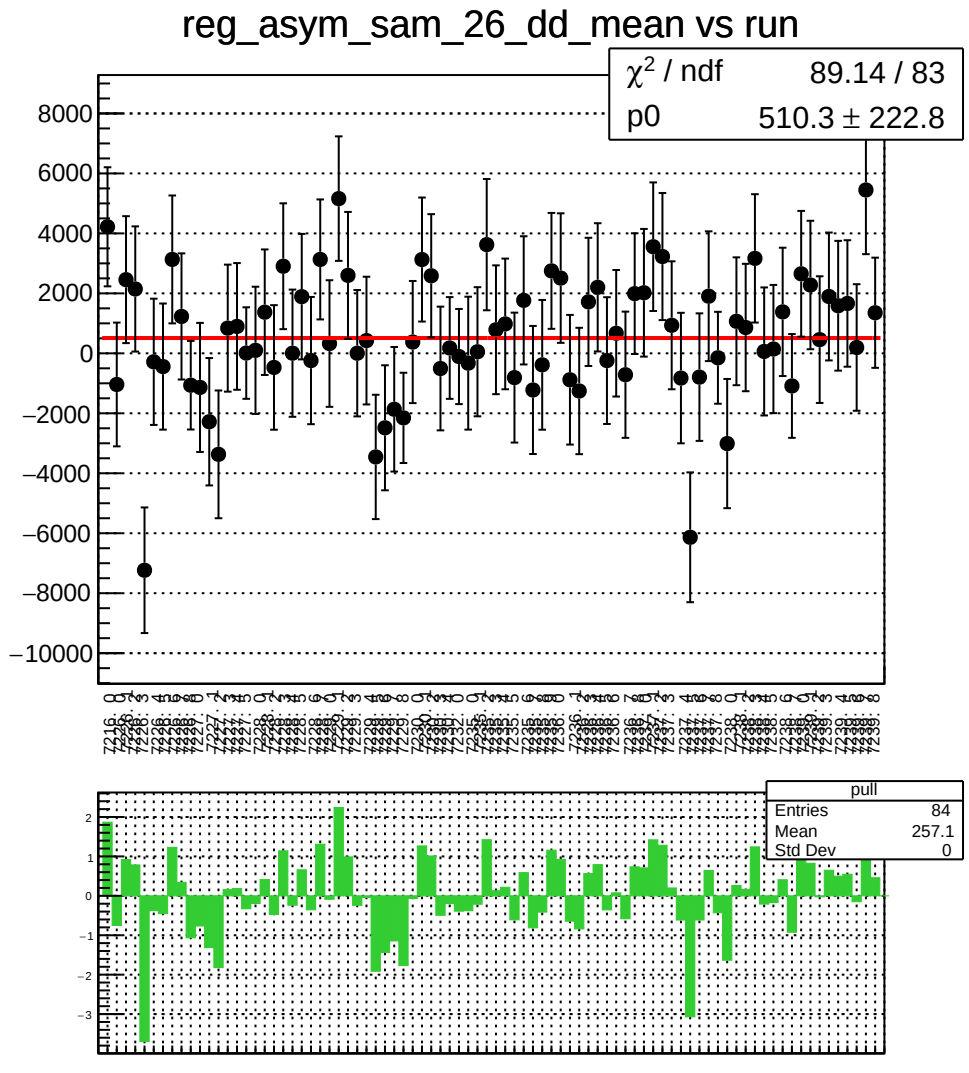

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.32 / 83
p0 −0.01039 ± 0.03699
pull
Entries 84
Mean 61.66
Std Dev 0
pull1D
Entries 84
Mean 0.009809
Std Dev 0.8885

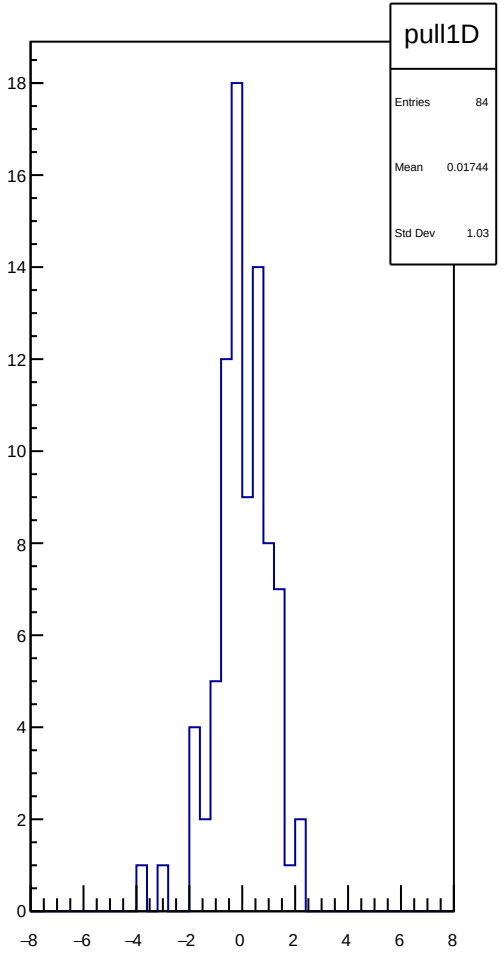

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.152e+04 / 83
p0 33.24 ± 0.02616
42
40
38
36
34
32
30
28
26

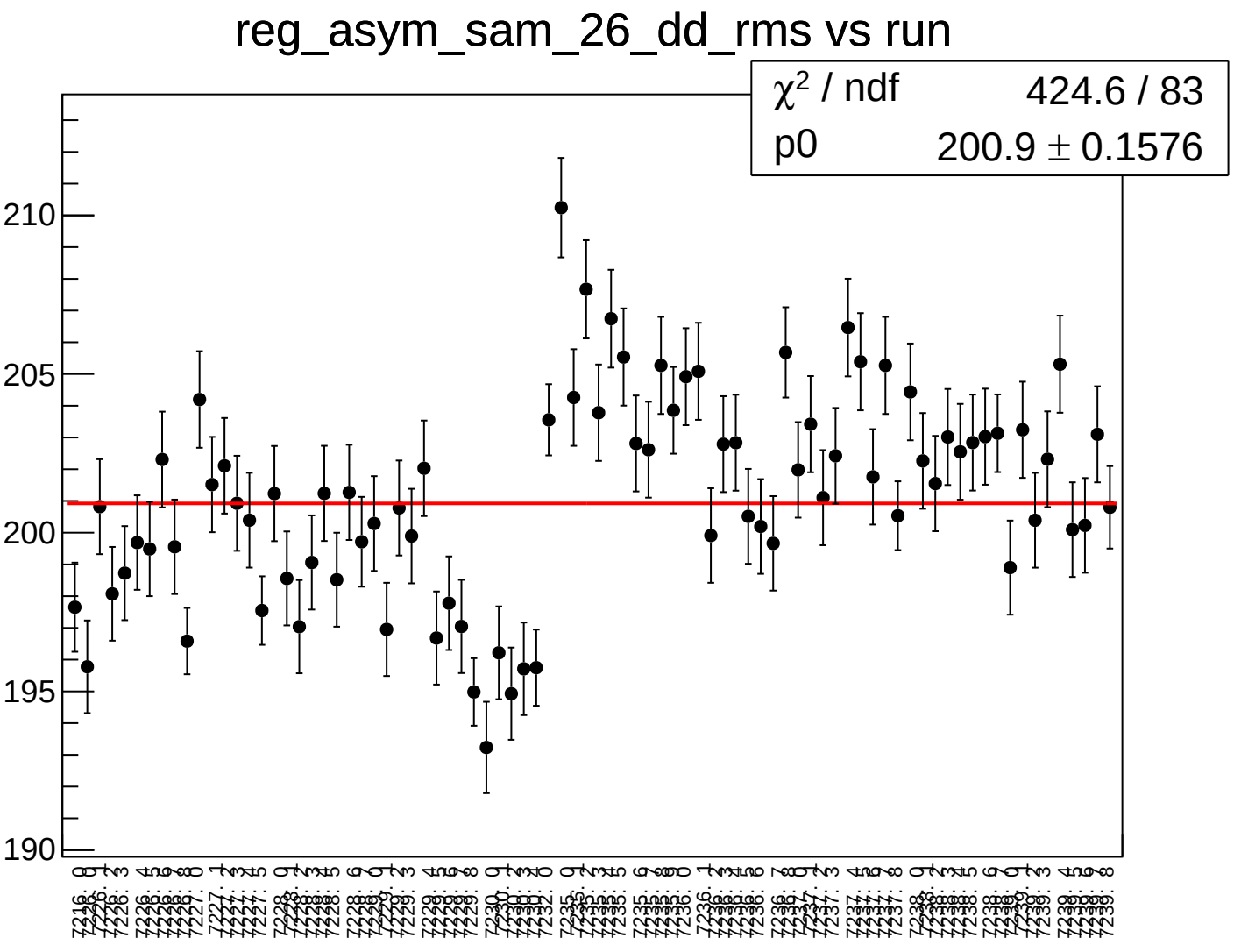

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 85.61 / 83
p0 1.264e−15 ± 8.68e−15
pull
Entries 84
Mean −115.7
Std Dev 0

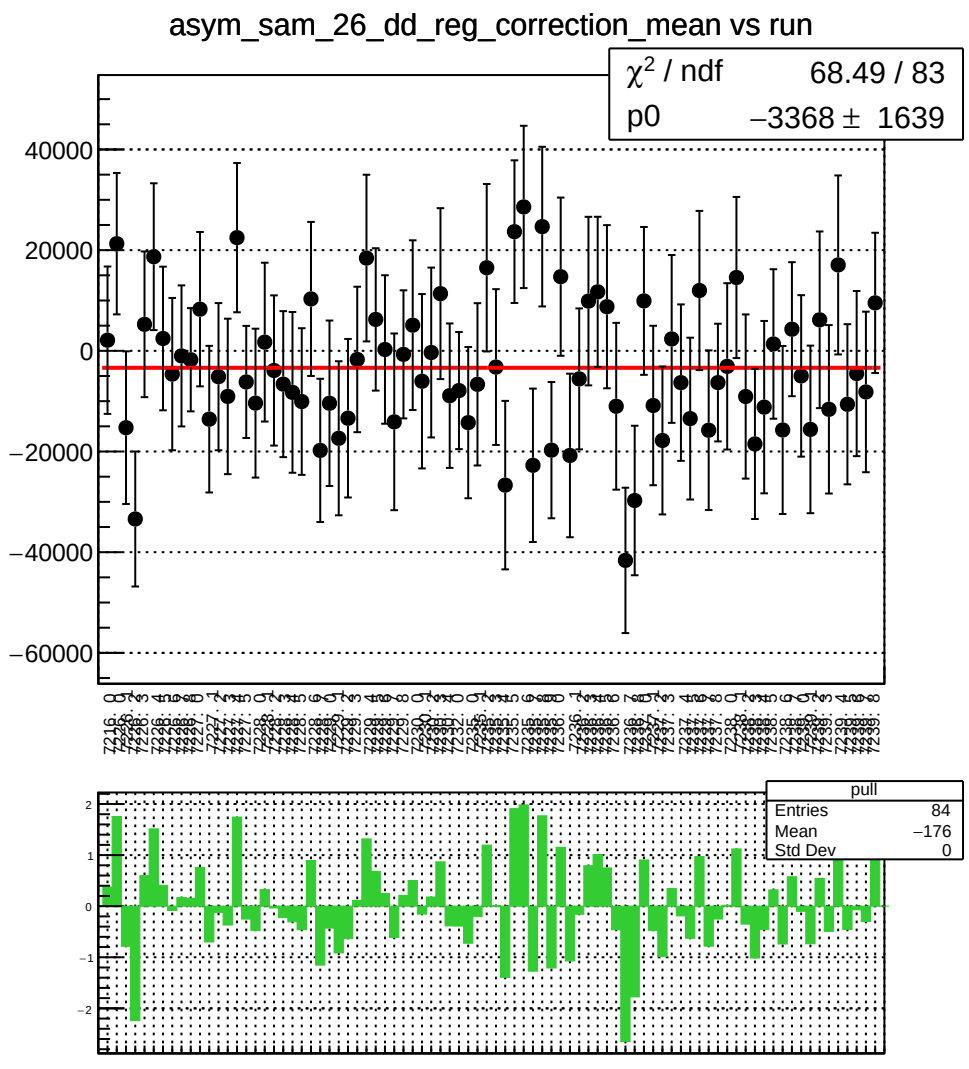

pull1D
Entries 84
Mean 0.009242
Std Dev 1.009

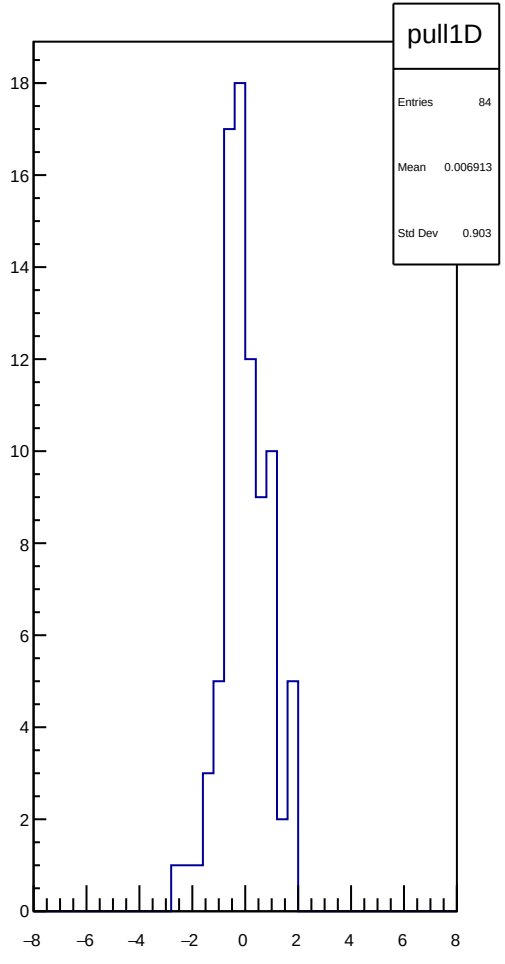

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.892e+05 / 83
p0 6.251e−12 ± 6.138e−15
60
50
40
30
20
10

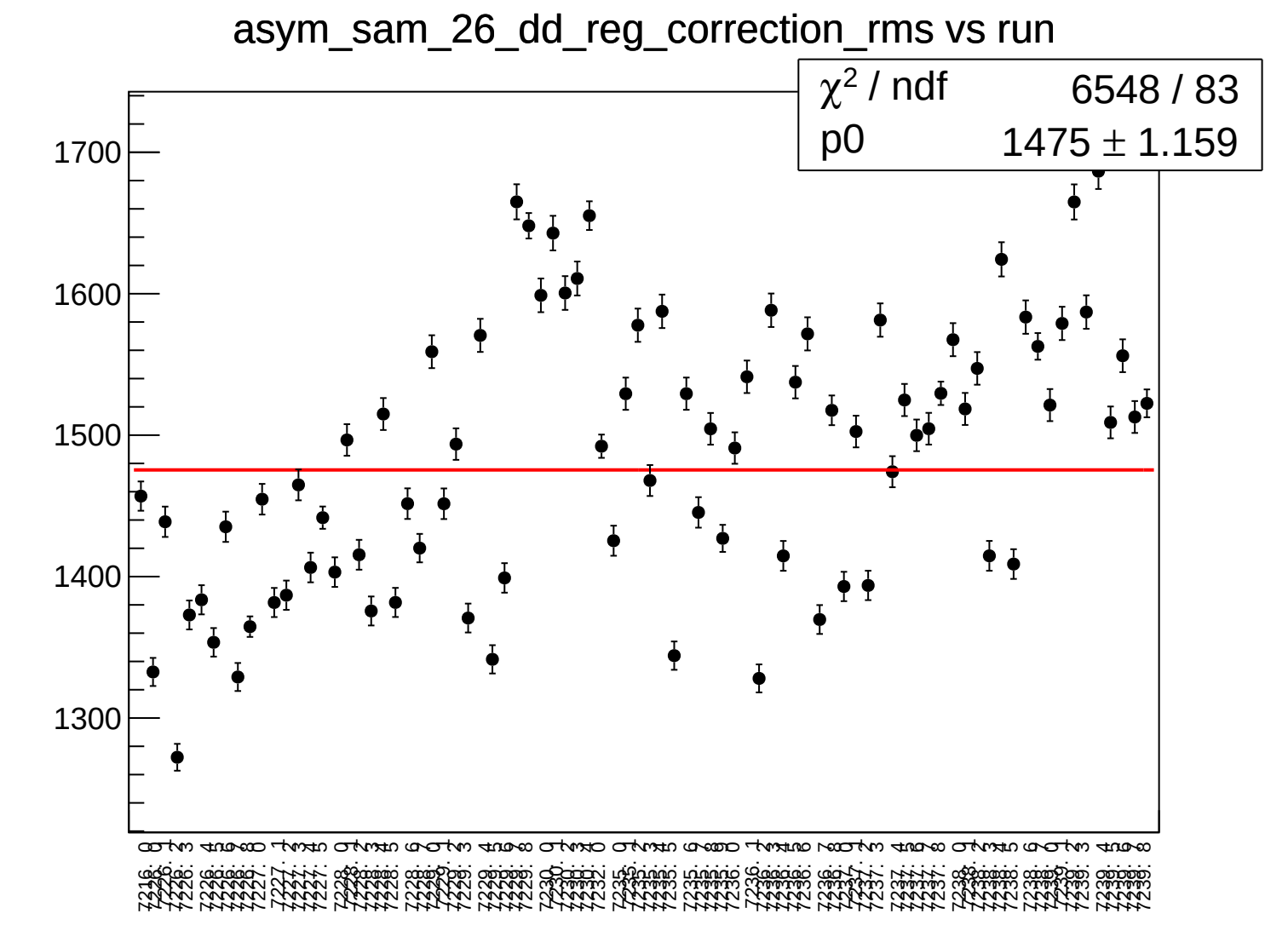

reg_asym_sam_26_dd_mean vs run
χ² / ndf 89.14 / 83
p0 510.3 ± 222.8
pull
Entries 84
Mean 257.1
Std Dev 0

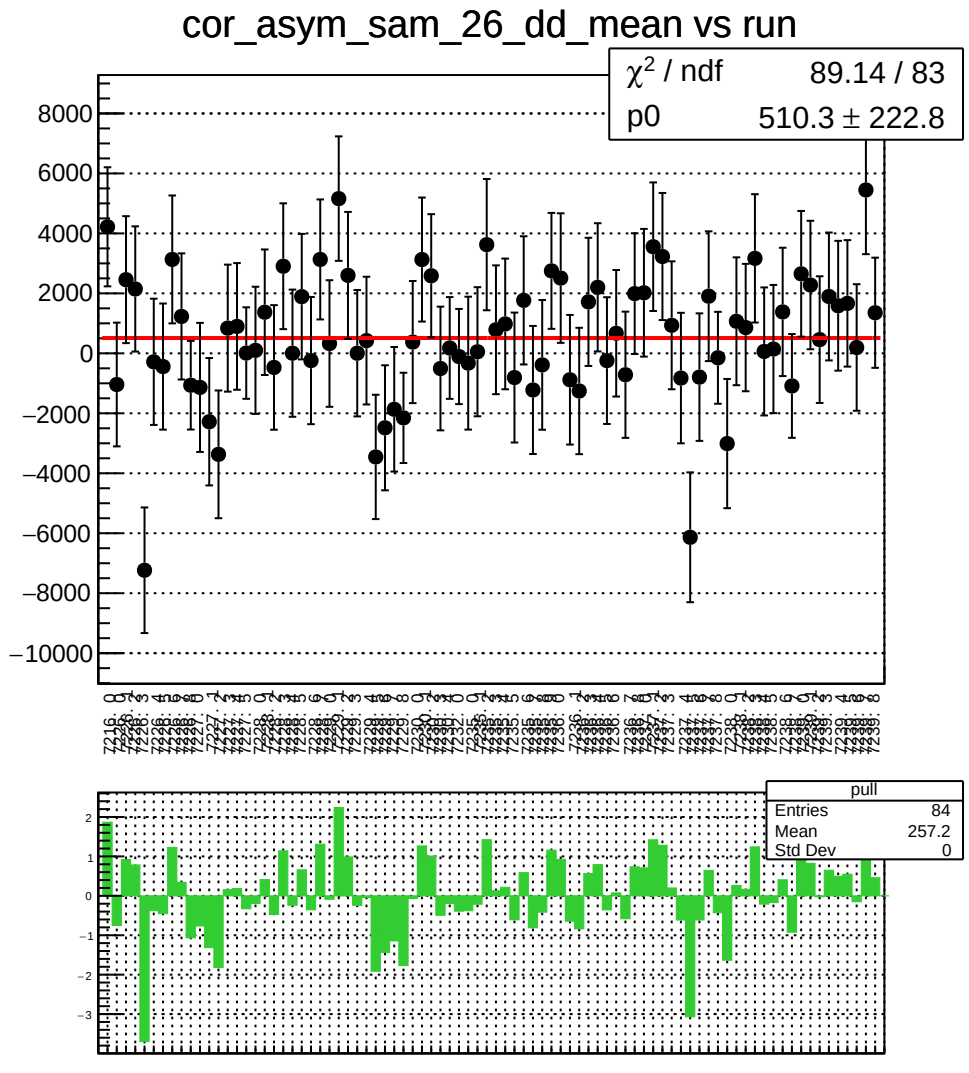

pull1D
Entries 84
Mean 0.01744
Std Dev 1.03

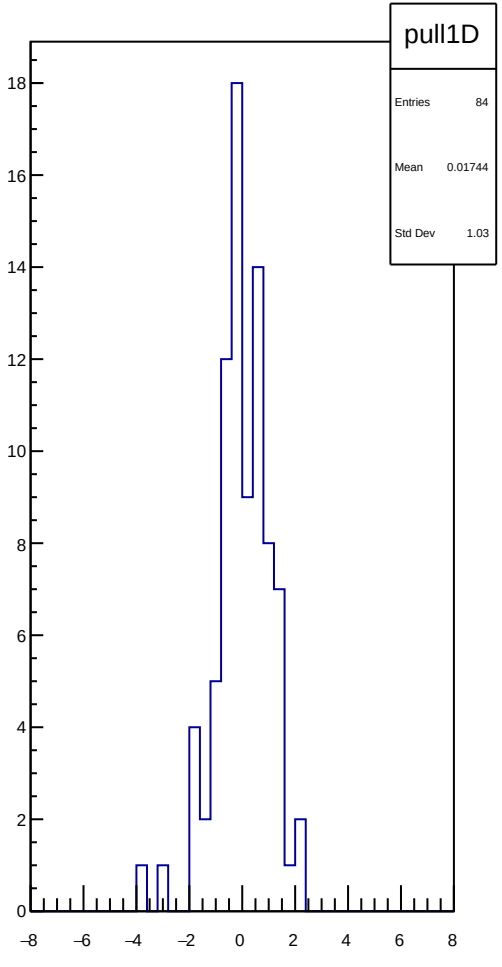

reg_asym_sam_26_dd_rms vs run
χ² / ndf 424.6 / 83
p0 200.9 ± 0.1576
210
205
200
195
190

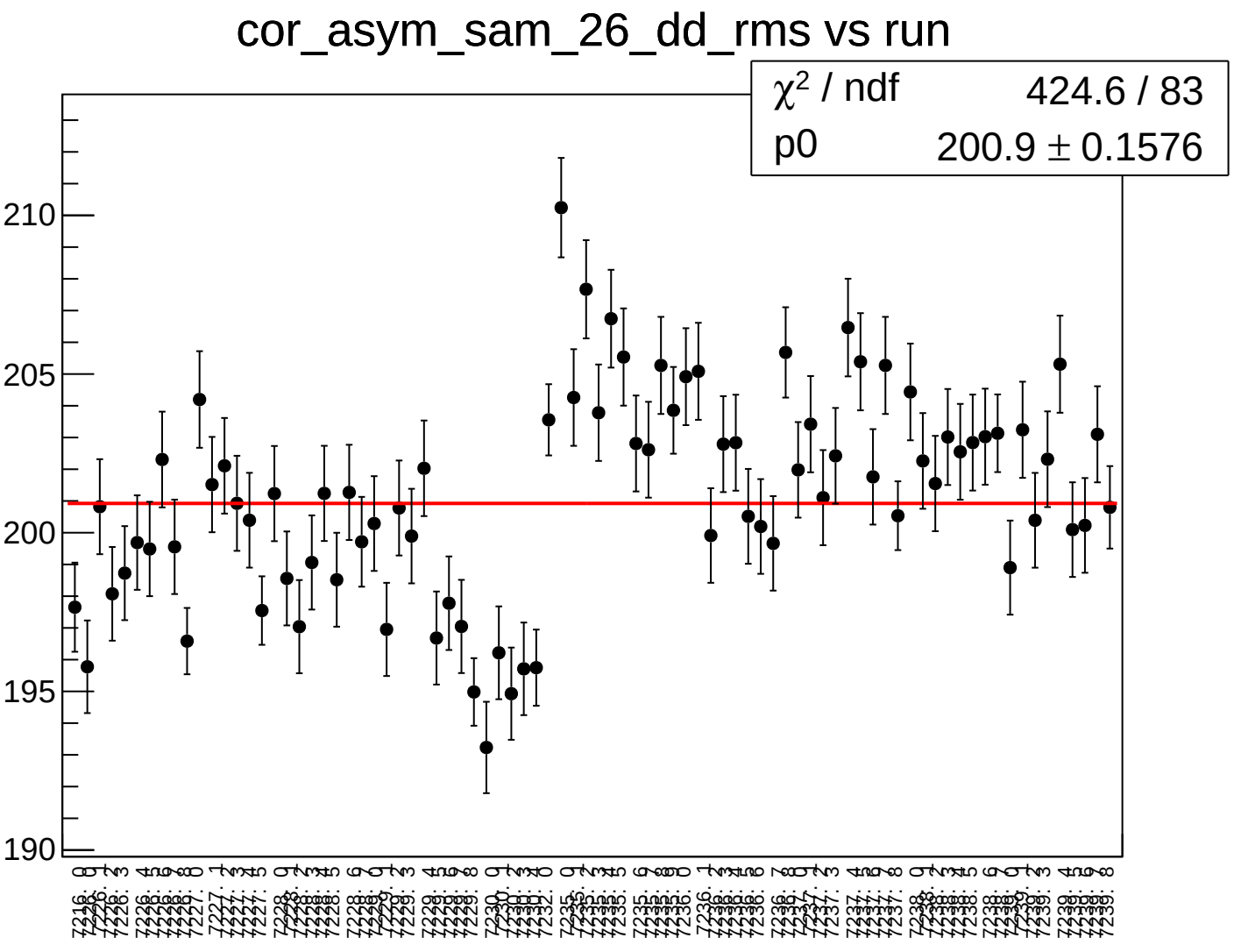

asym_sam_26_dd_reg_correction_mean vs run
χ² / ndf 68.49 / 83
p0 −3368 ± 1639
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −176
Std Dev 0
2
1
0
−1
−2

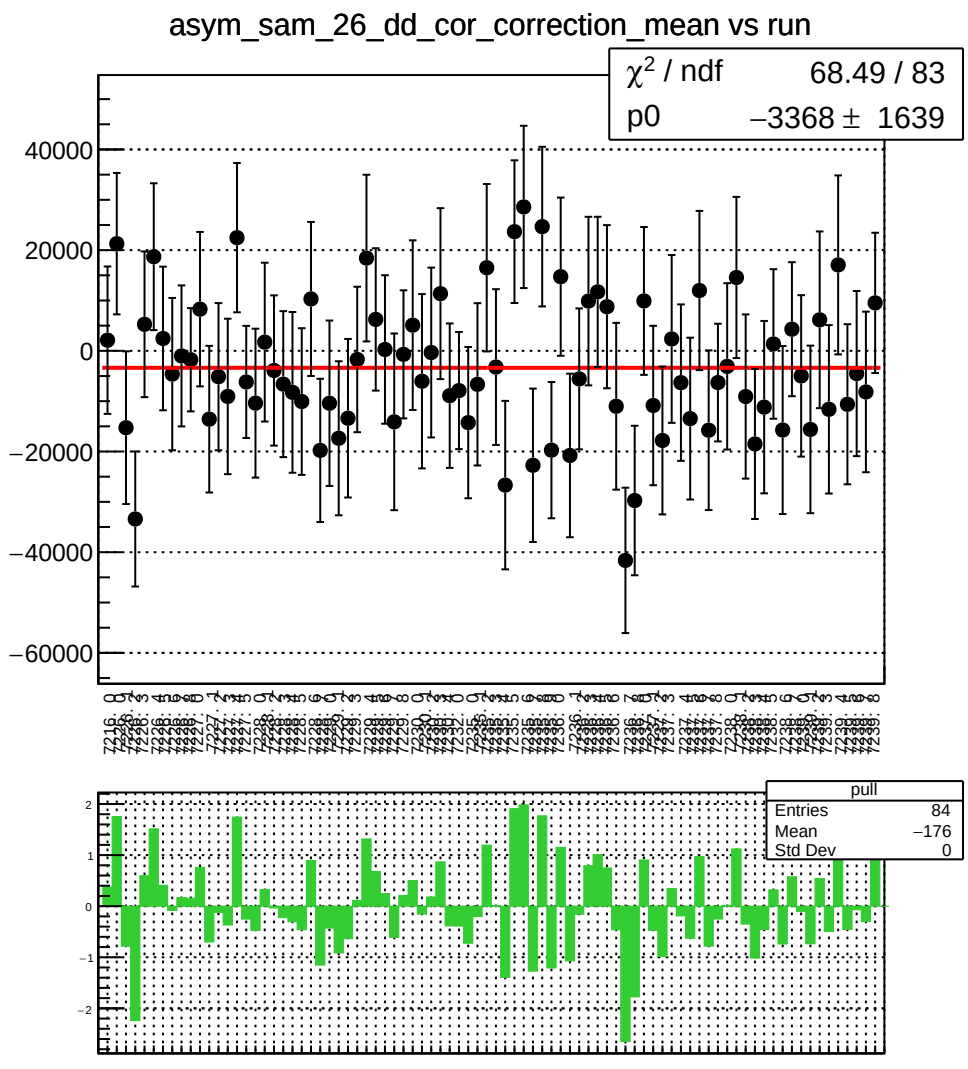

pull1D
Entries 84
Mean 0.006913
Std Dev 0.903
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

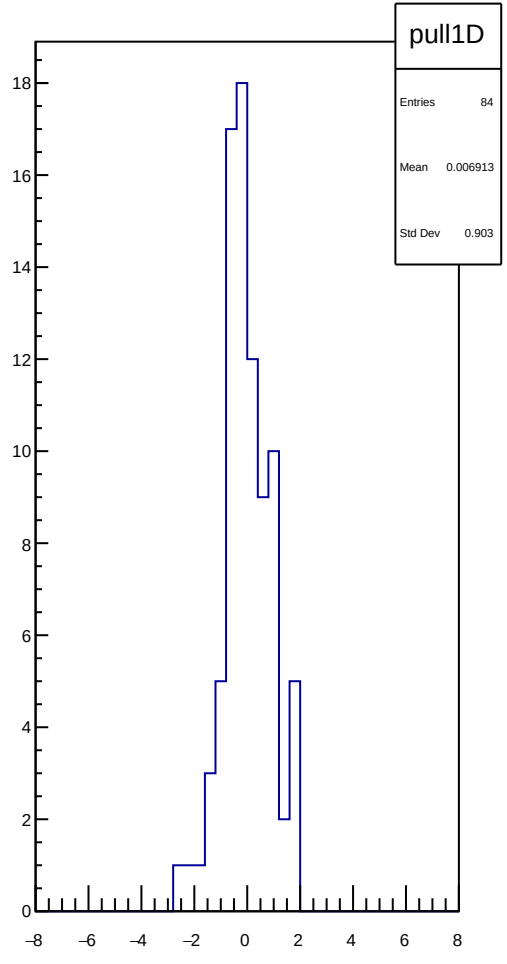

asym_sam_26_dd_reg_correction_rms vs run
χ^2 / ndf 6548 / 83
p0 1475 ± 1.159
1700
1600
1500
1400
1300

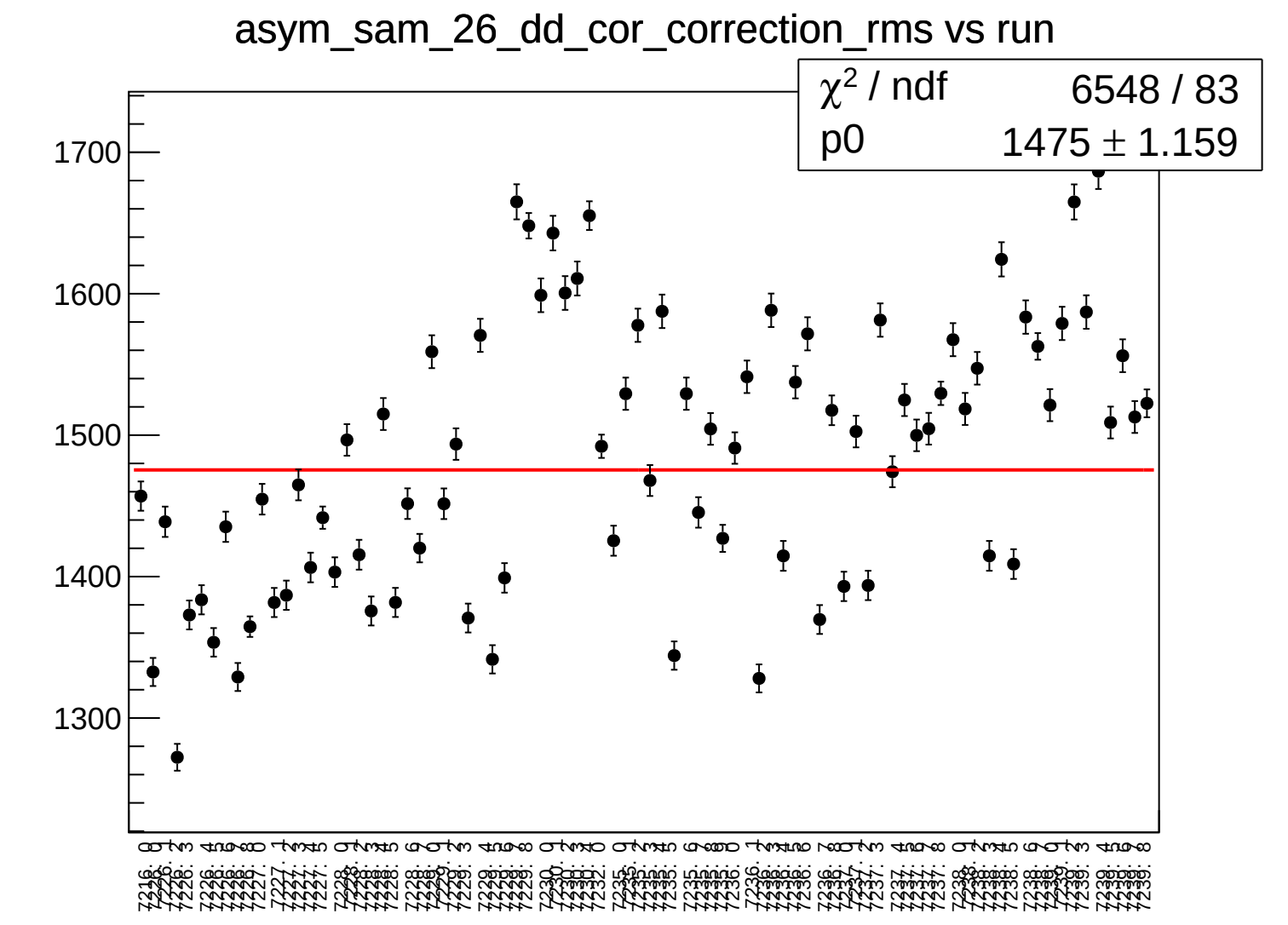

cor_asym_sam_26_dd_mean vs run
χ² / ndf 89.14 / 83
p0 510.3 ± 222.8
pull
Entries 84
Mean 257.2
Std Dev 0

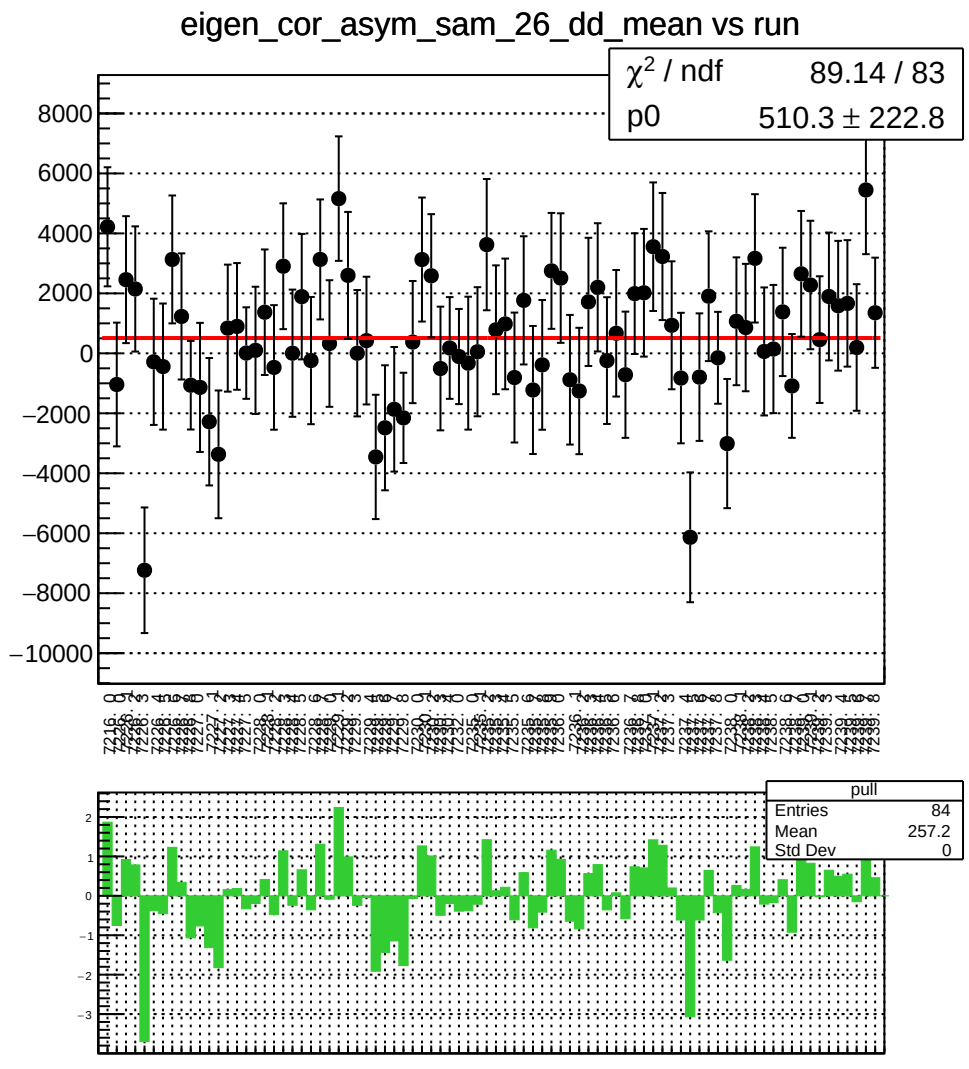

pull1D
Entries 84
Mean 0.01744
Std Dev 1.03

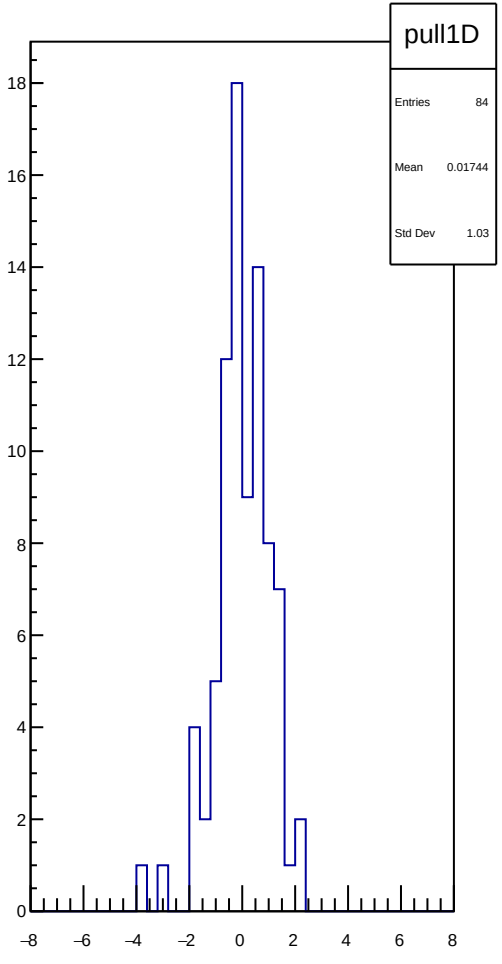

cor_asym_sam_26_dd_rms vs run
χ² / ndf 424.6 / 83
p0 200.9 ± 0.1576
210
205
200
195
190

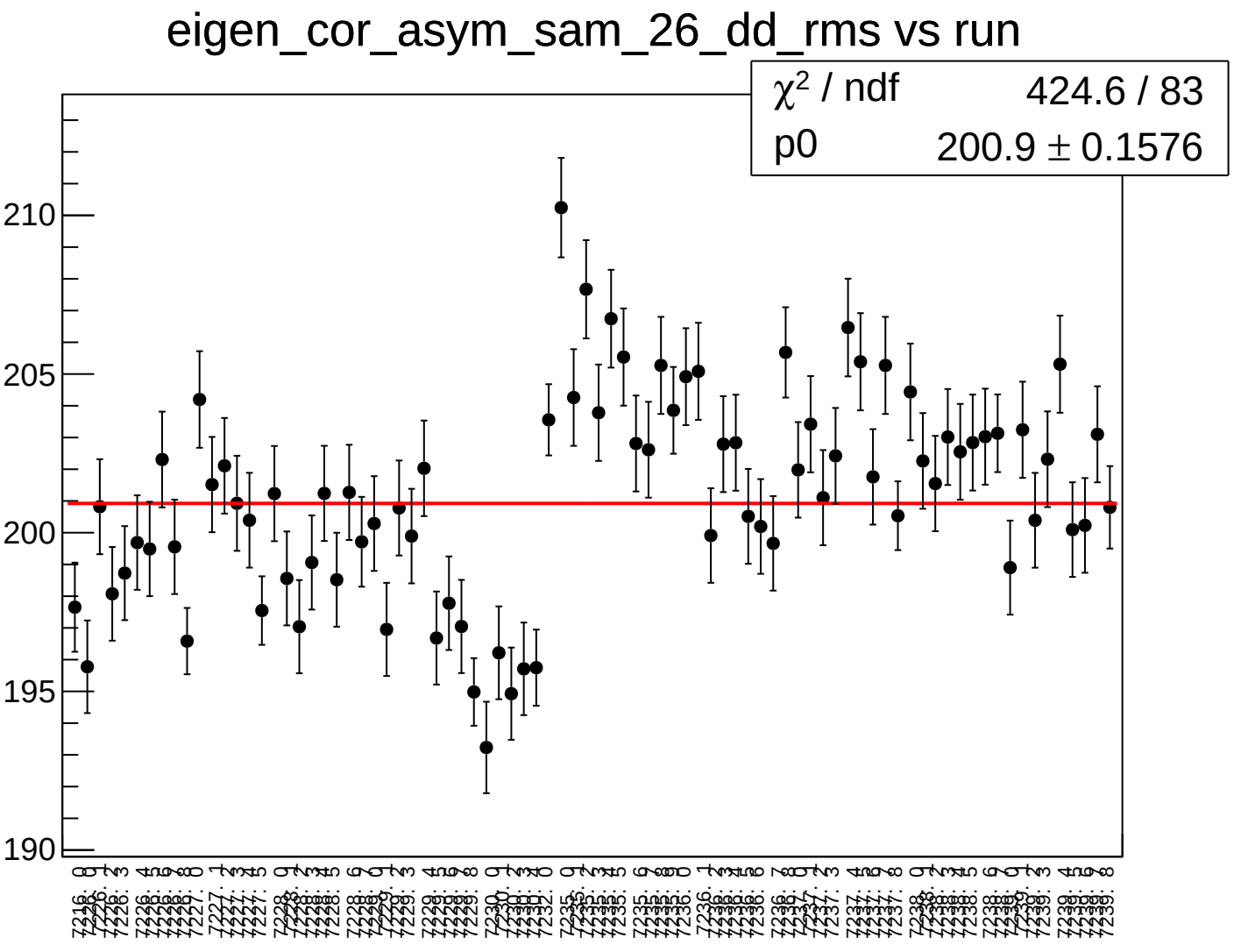

asym_sam_26_dd_cor_correction_mean vs run
χ² / ndf 68.49 / 83
p0 −3368 ± 1639
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −176
Std Dev 0
2
1
0
−1
−2

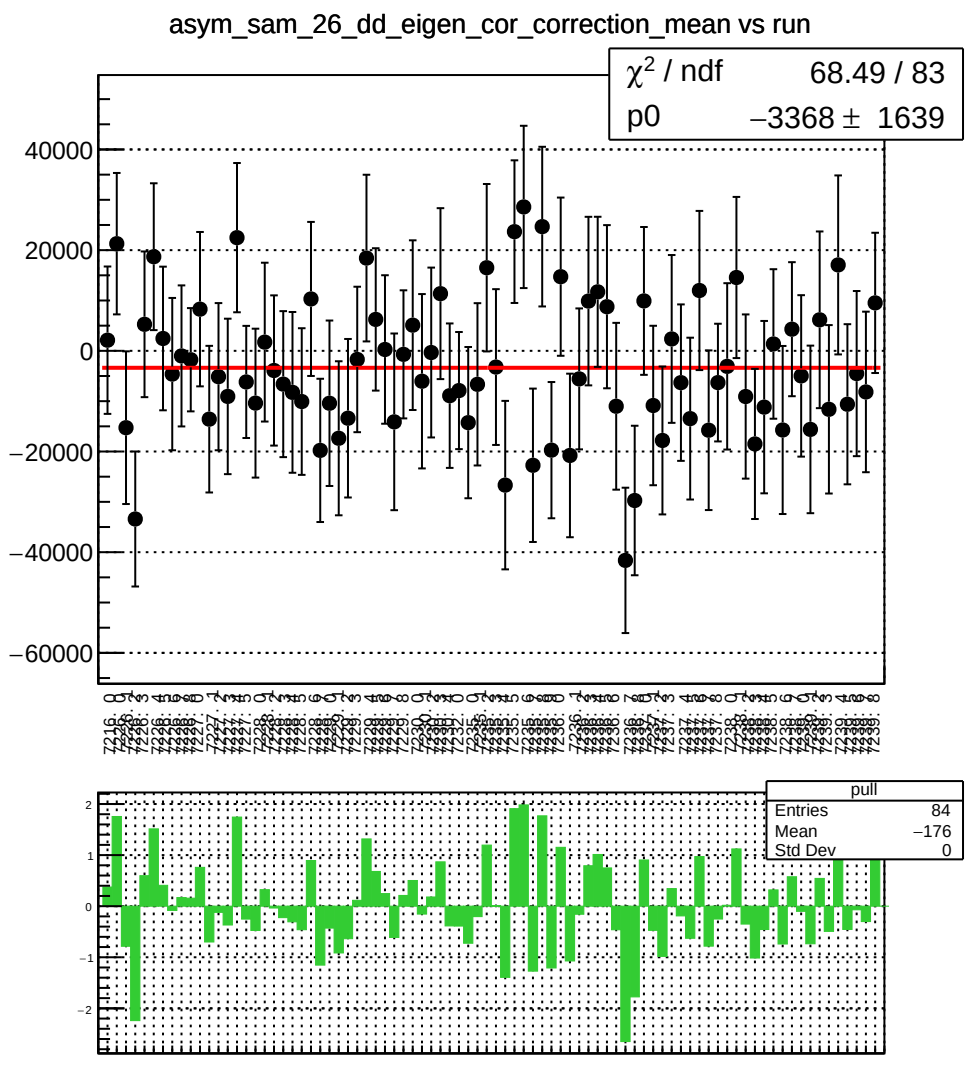

pull1D
Entries 84
Mean 0.006913
Std Dev 0.903
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

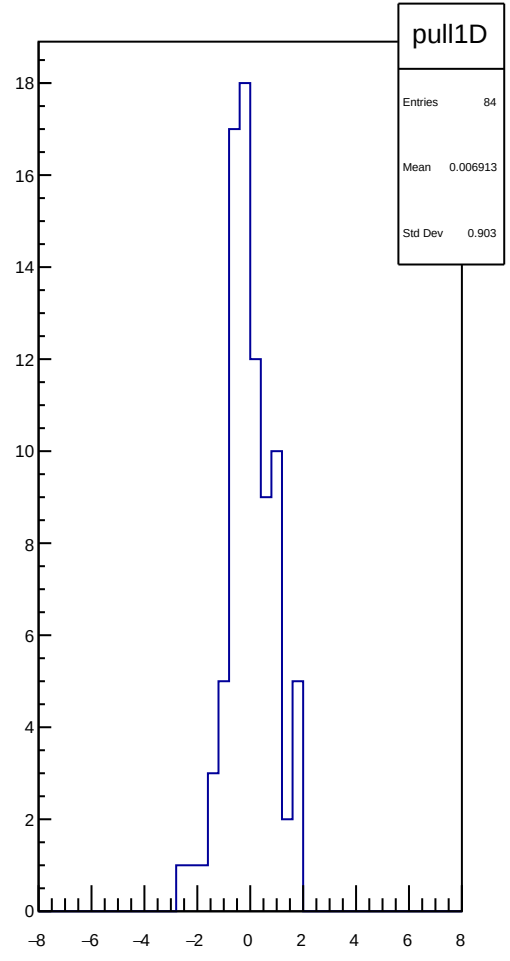

asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 6548 / 83
p0 1475 ± 1.159
1700
1600
1500
1400
1300

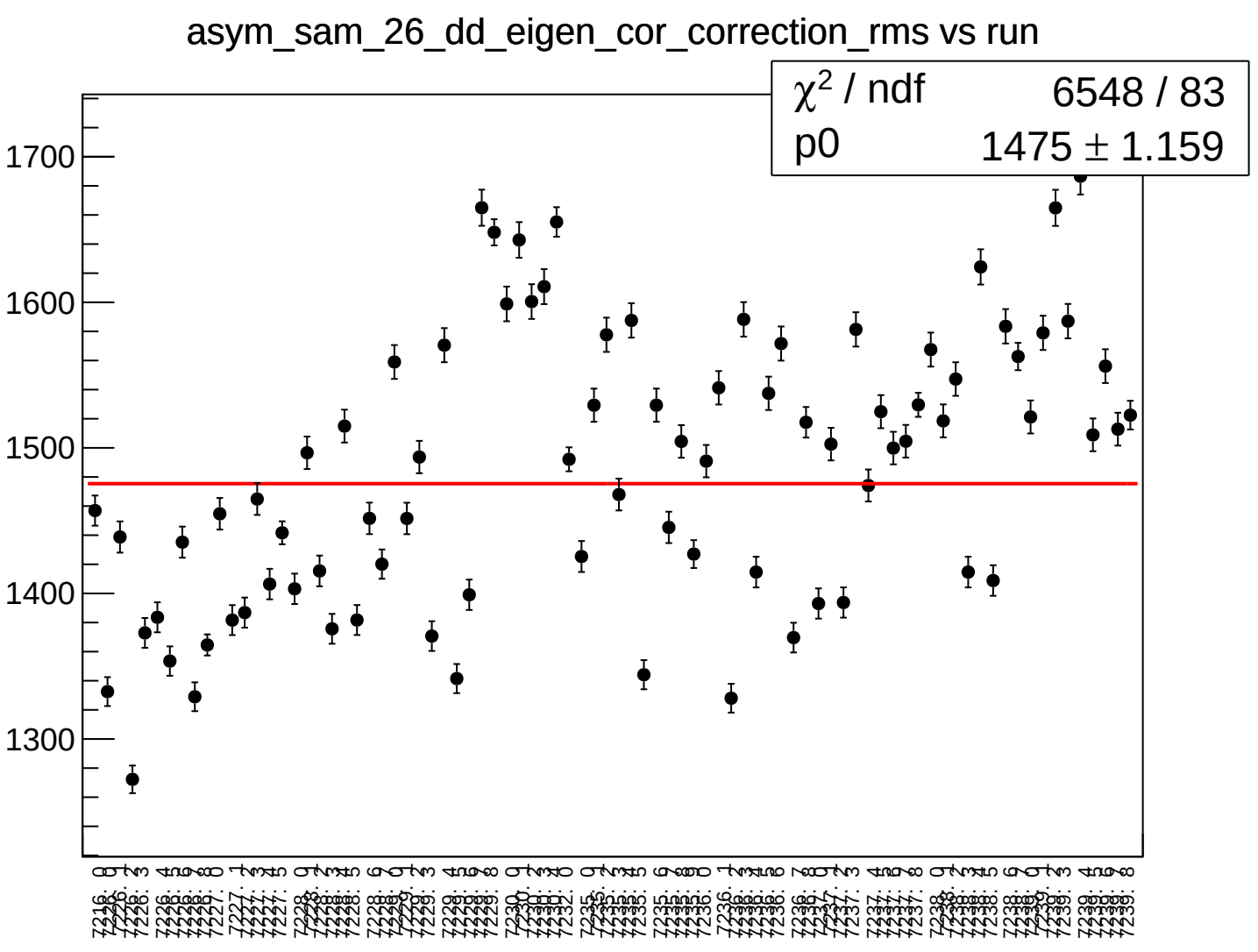

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 89.14 / 83
p0 510.3 ± 222.8
pull
Entries 84
Mean 257.2
Std Dev 0

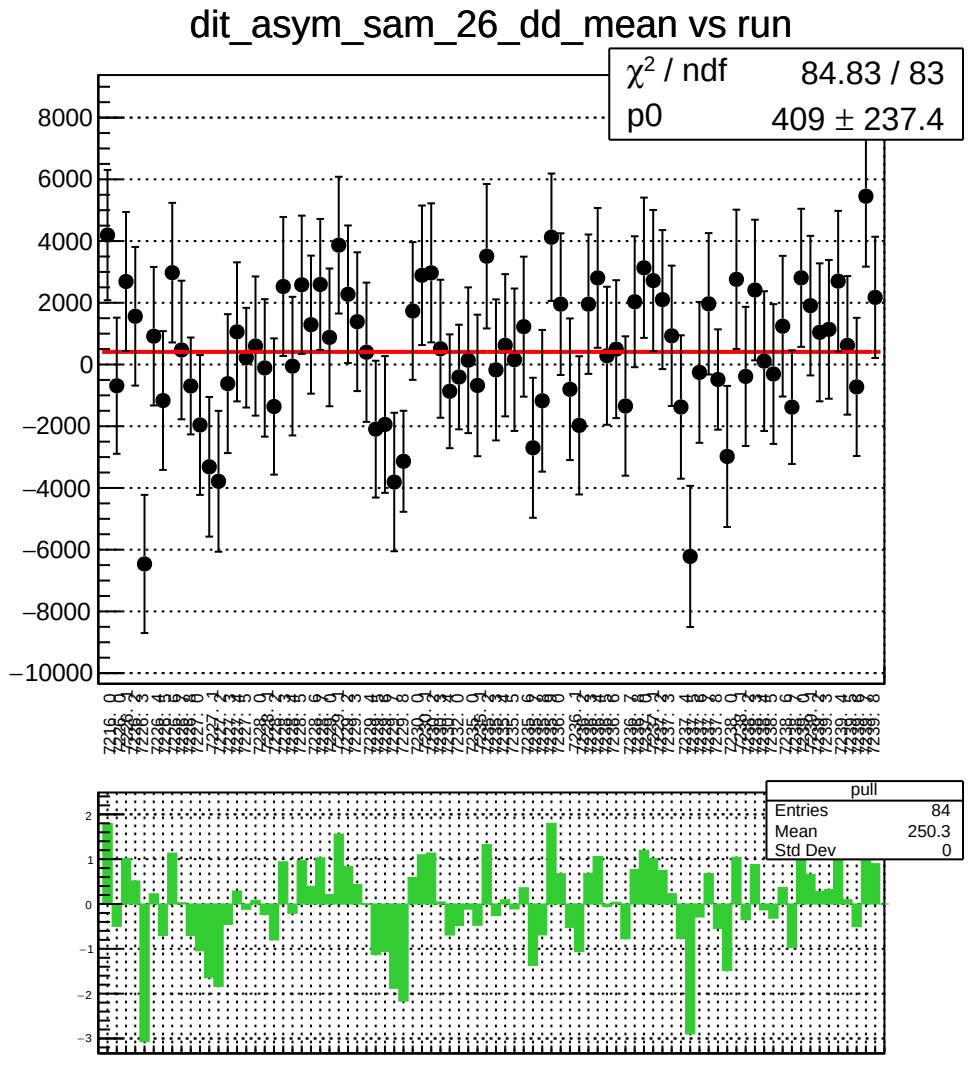

pull1D
Entries 84
Mean 0.01744
Std Dev 1.03

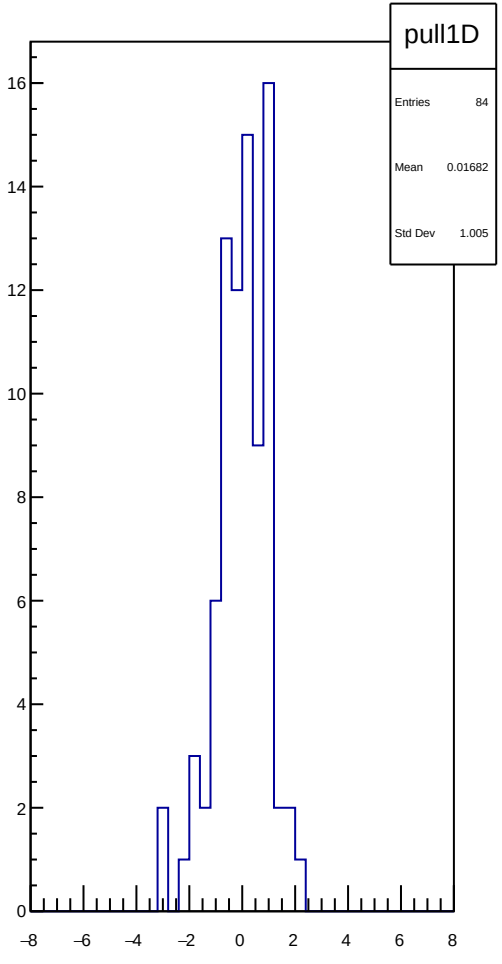

eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 424.6 / 83
p0 200.9 ± 0.1576
210
205
200
195
190

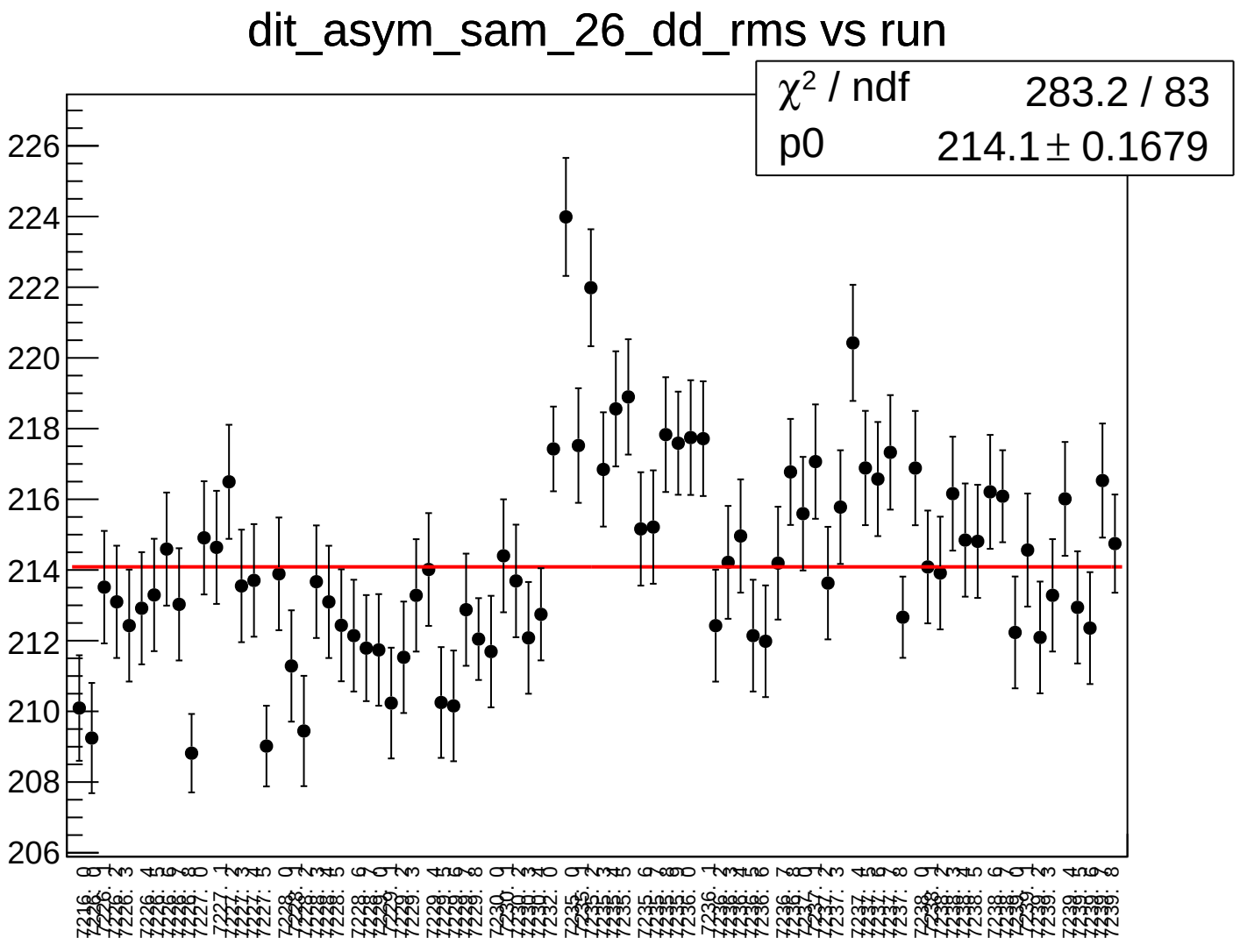

asym_sam_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 68.49 / 83
p0 −3368 ± 1639
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −176
Std Dev 0
2
1
0
−1
−2

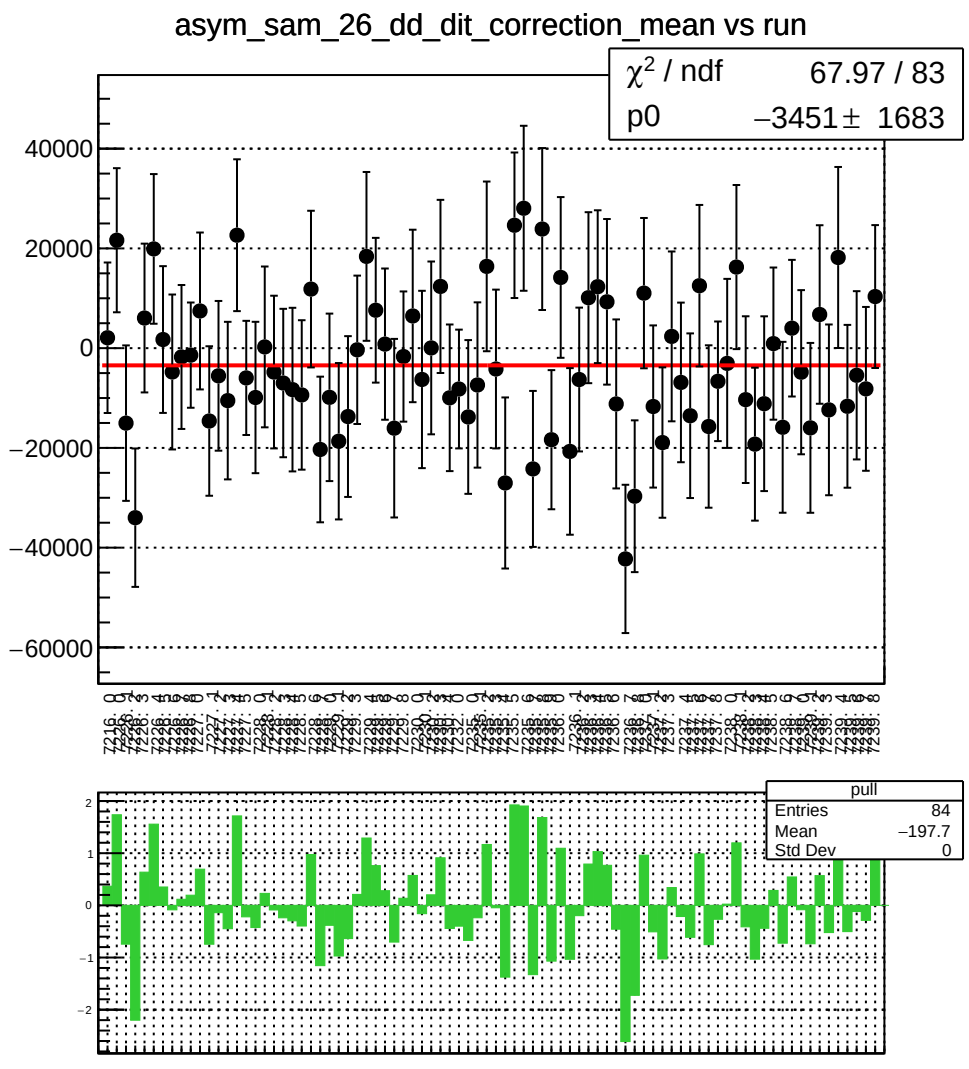

pull1D
Entries 84
Mean 0.006913
Std Dev 0.903
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

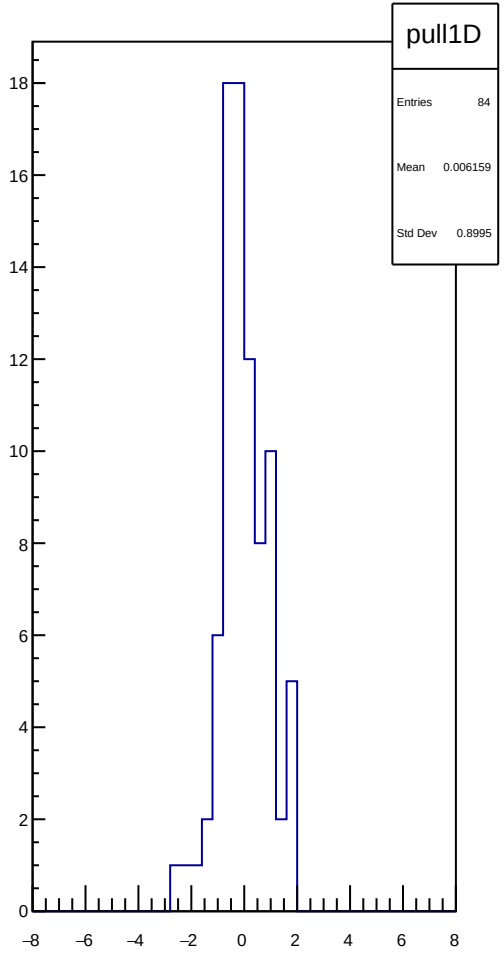

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 6548 / 83
p0 1475 ± 1.159
1700
1600
1500
1400
1300

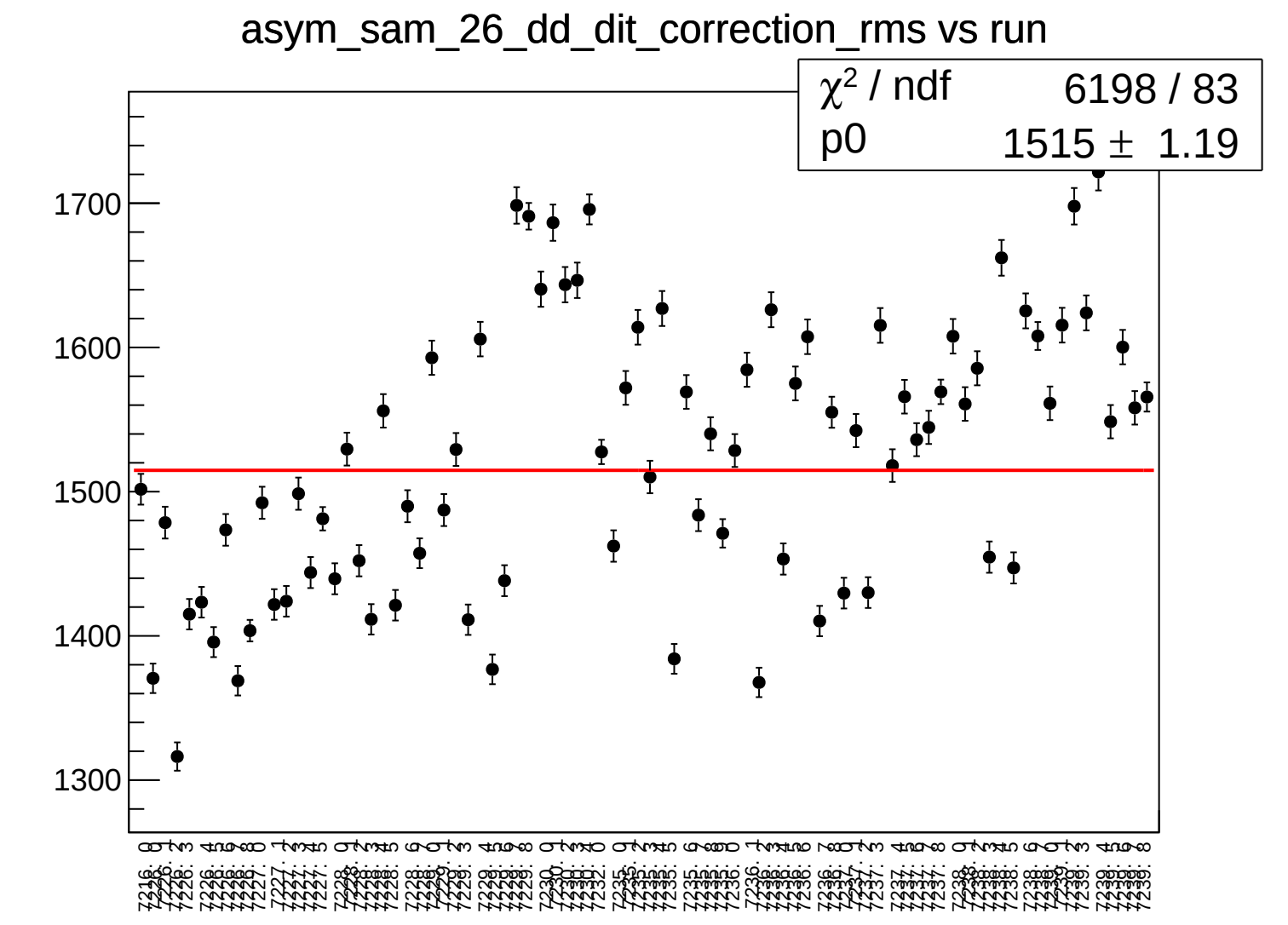

dit_asym_sam_26_dd_mean vs run
χ² / ndf 84.83 / 83
p0 409 ± 237.4
pull
Entries 84
Mean 250.3
Std Dev 0

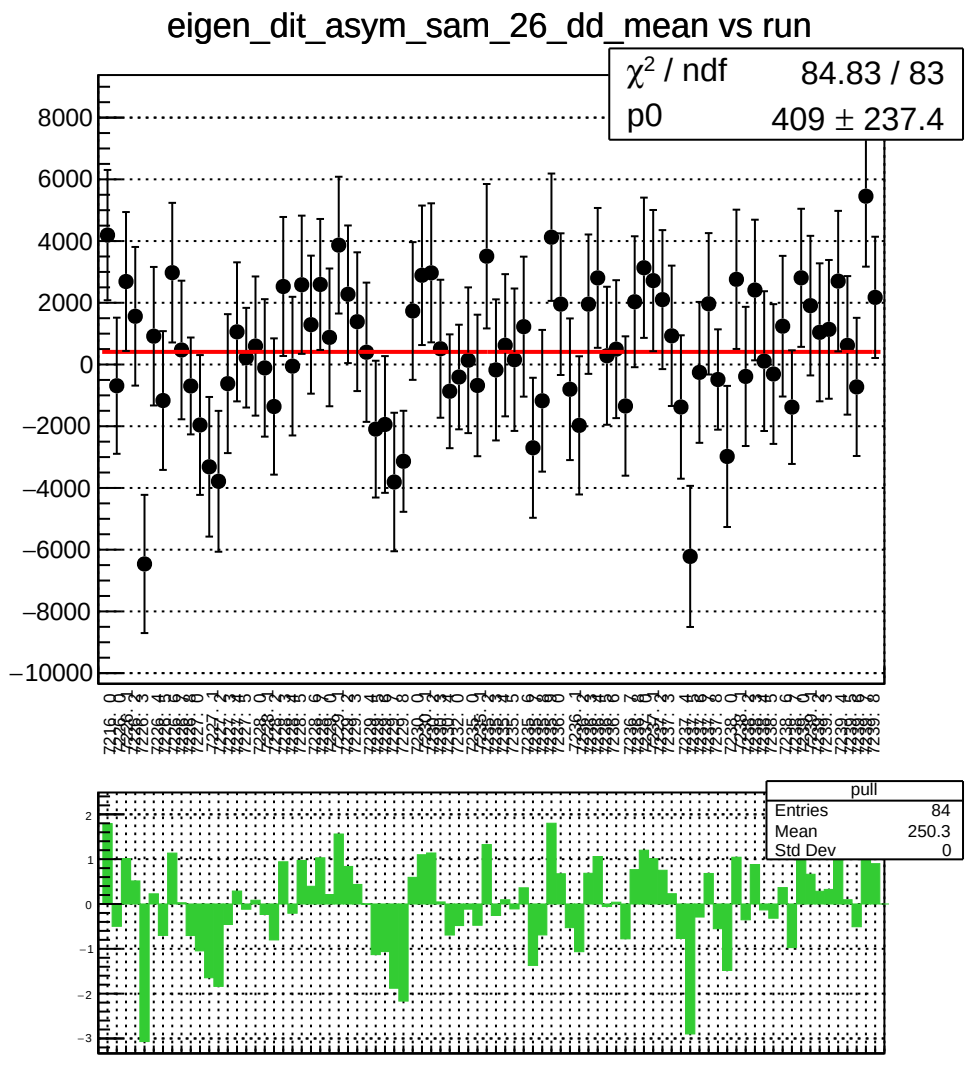

pull1D
Entries 84
Mean 0.01682
Std Dev 1.005

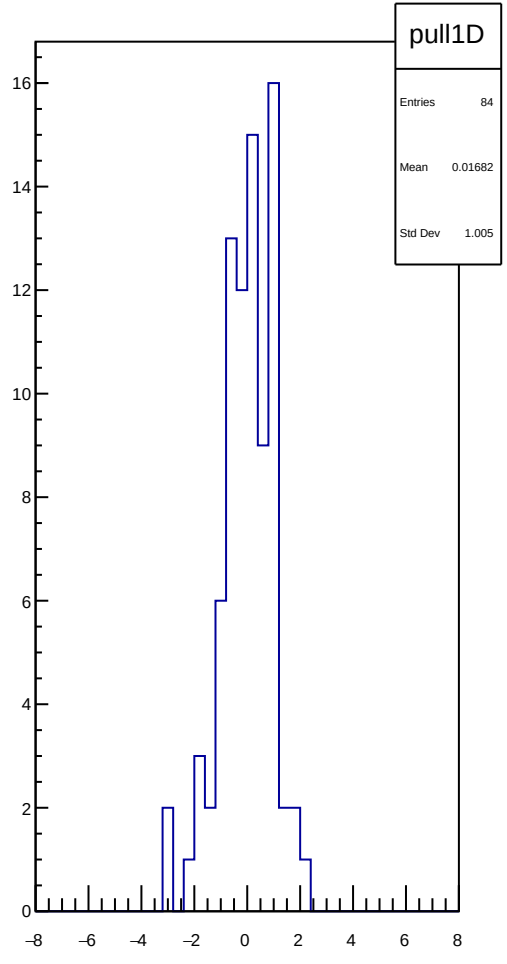

dit_asym_sam_26_dd_rms vs run
χ² / ndf 283.2 / 83
p0 214.1 ± 0.1679
226
224
222
220
218
216
214
212
210
208
206

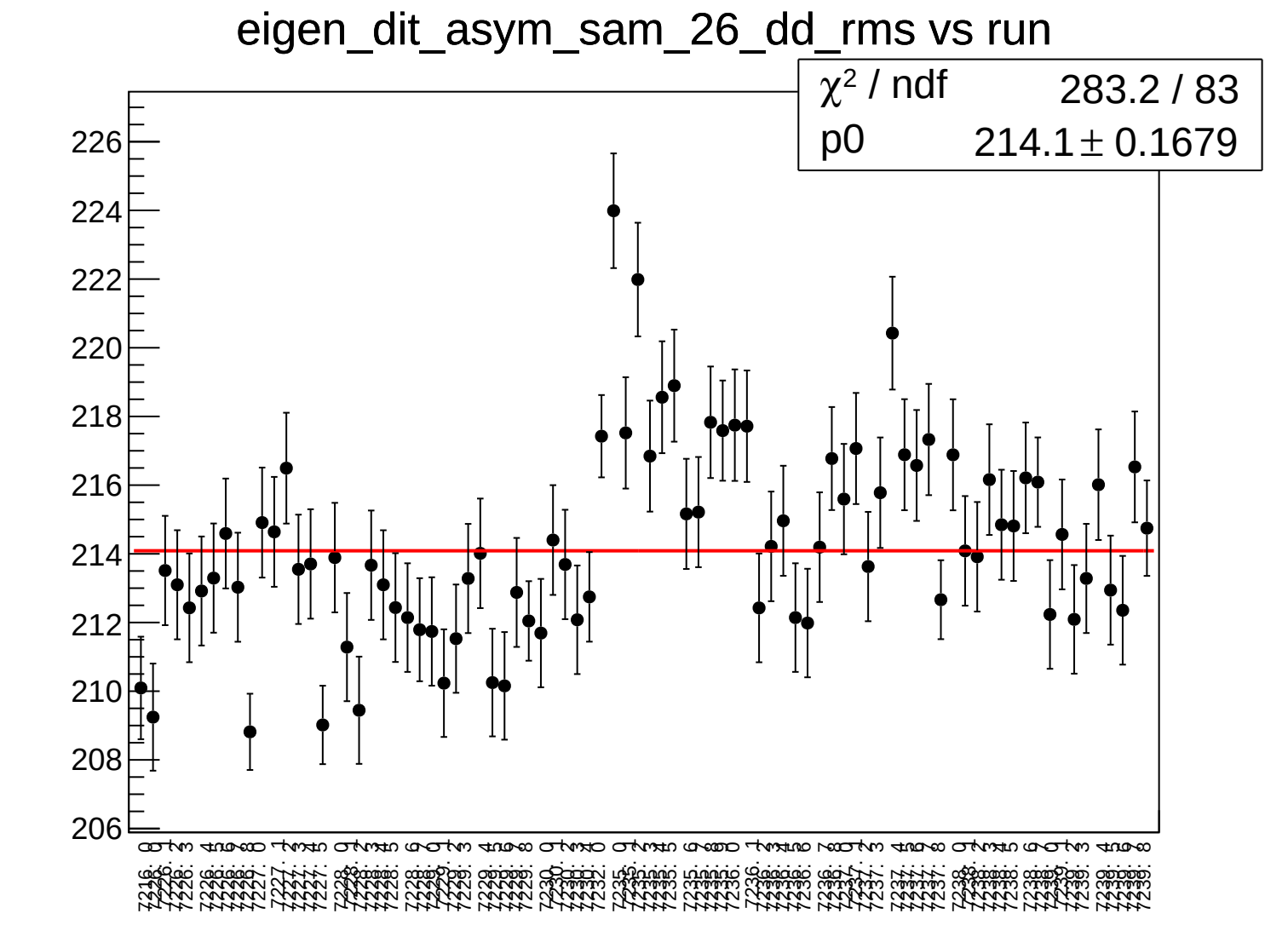

asym_sam_26_dd_dit_correction_mean vs run
χ² / ndf 67.97 / 83
p0 −3451 ± 1683
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −197.7
Std Dev 0
2
1
0
−1
−2

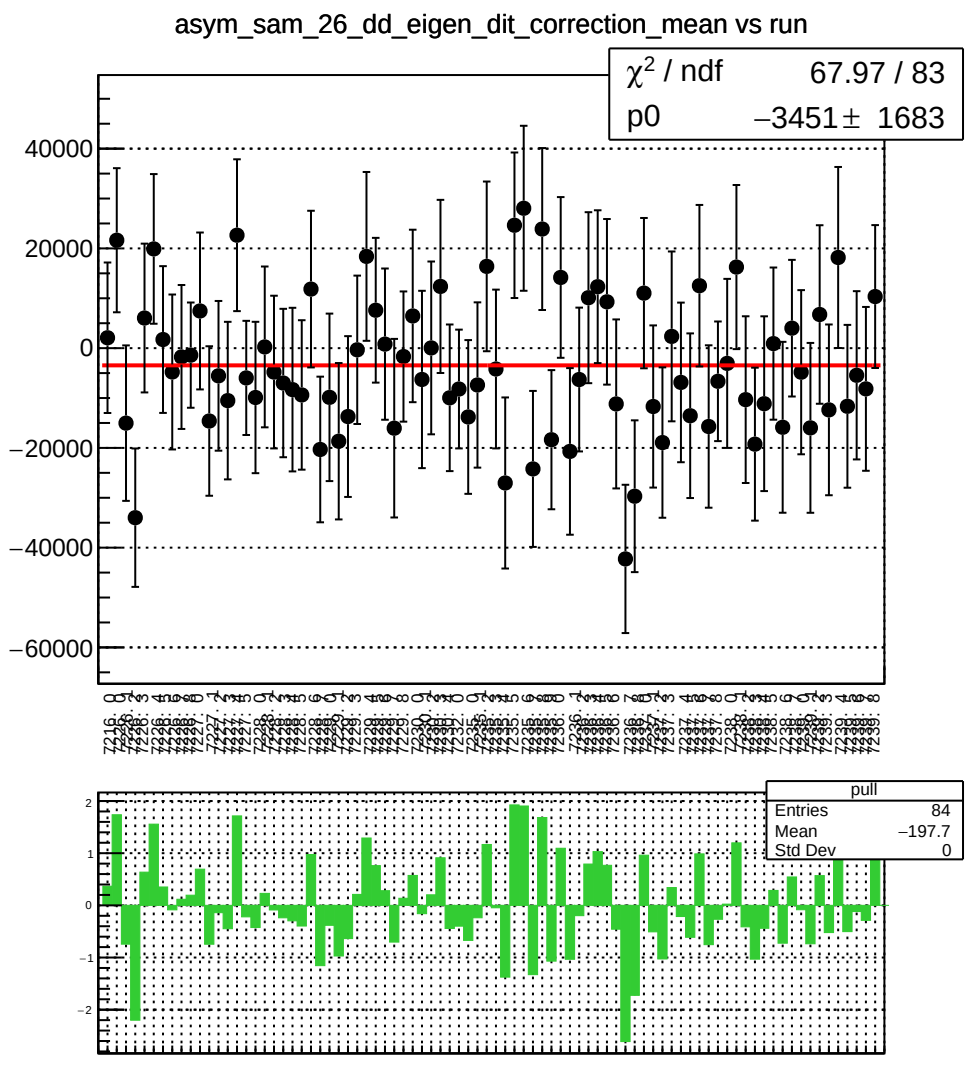

pull1D
Entries 84
Mean 0.006159
Std Dev 0.8995
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

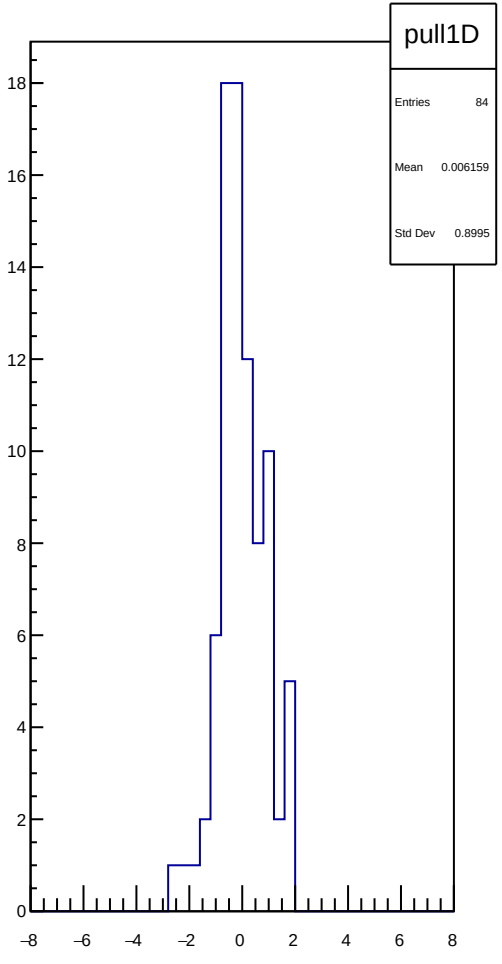

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 6198 / 83
p0 1515 ± 1.19
1700
1600
1500
1400
1300

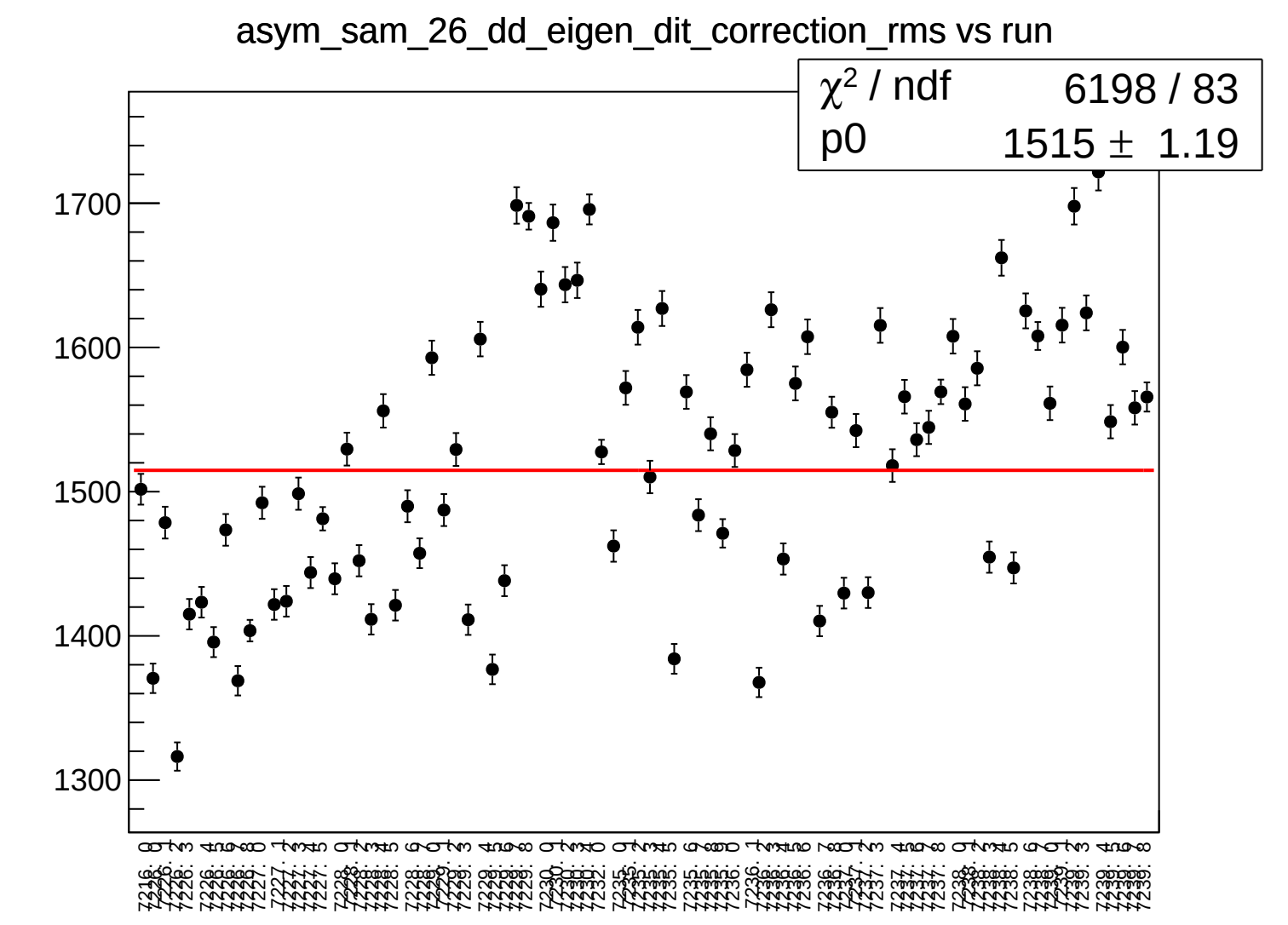

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 84.83 / 83
p0 409 ± 237.4
pull
Entries 84
Mean 250.3
Std Dev 0

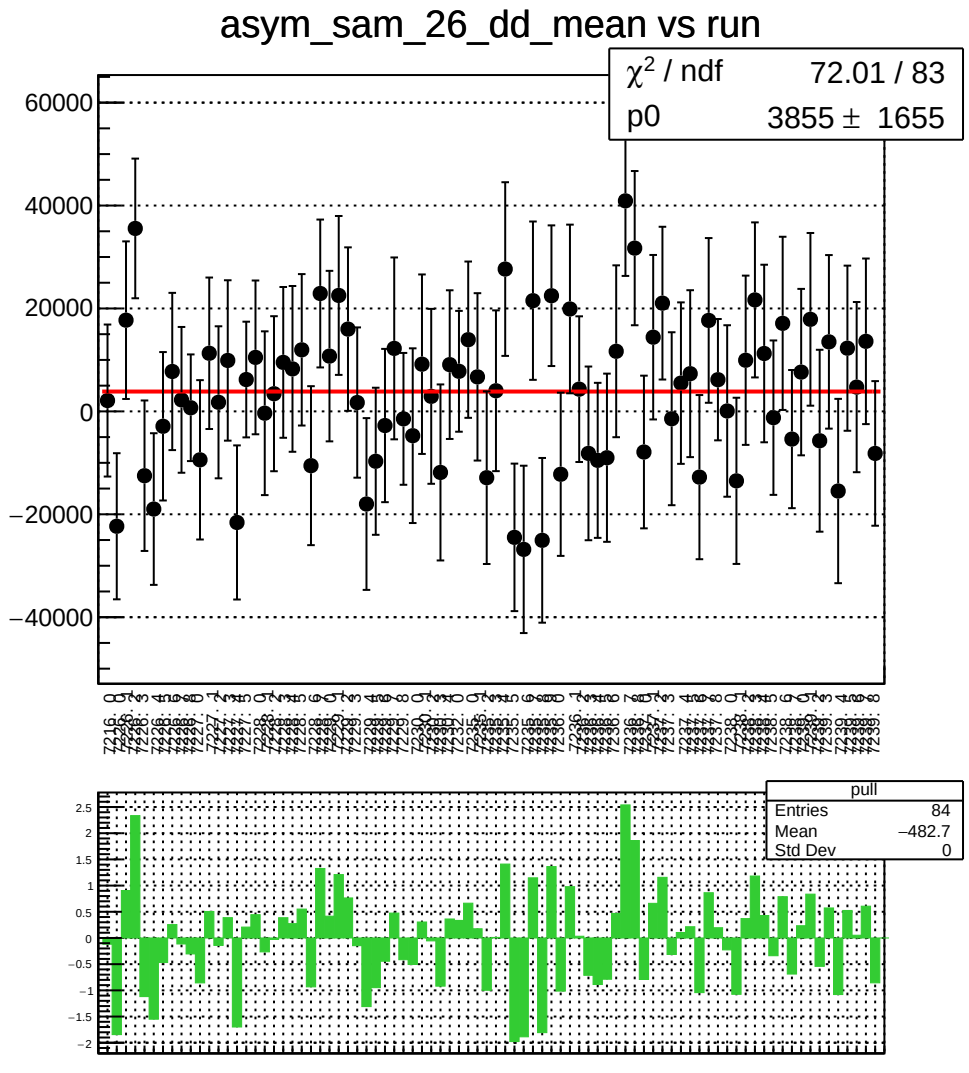

pull1D
Entries 84
Mean 0.01682
Std Dev 1.005

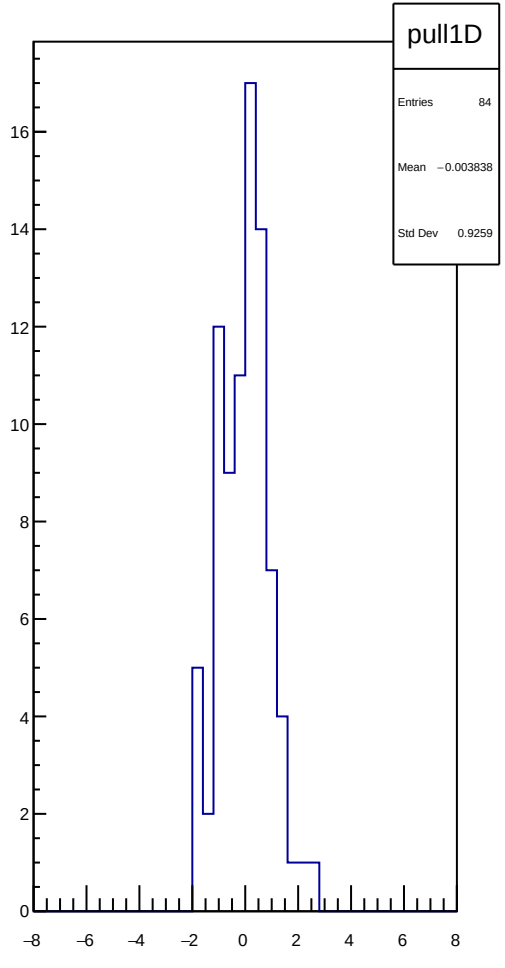

eigen_dit_asym_sam_26_dd_rms vs run
χ² / ndf 283.2 / 83
p0 214.1 ± 0.1679
226
224
222
220
218
216
214
212
210
208
206

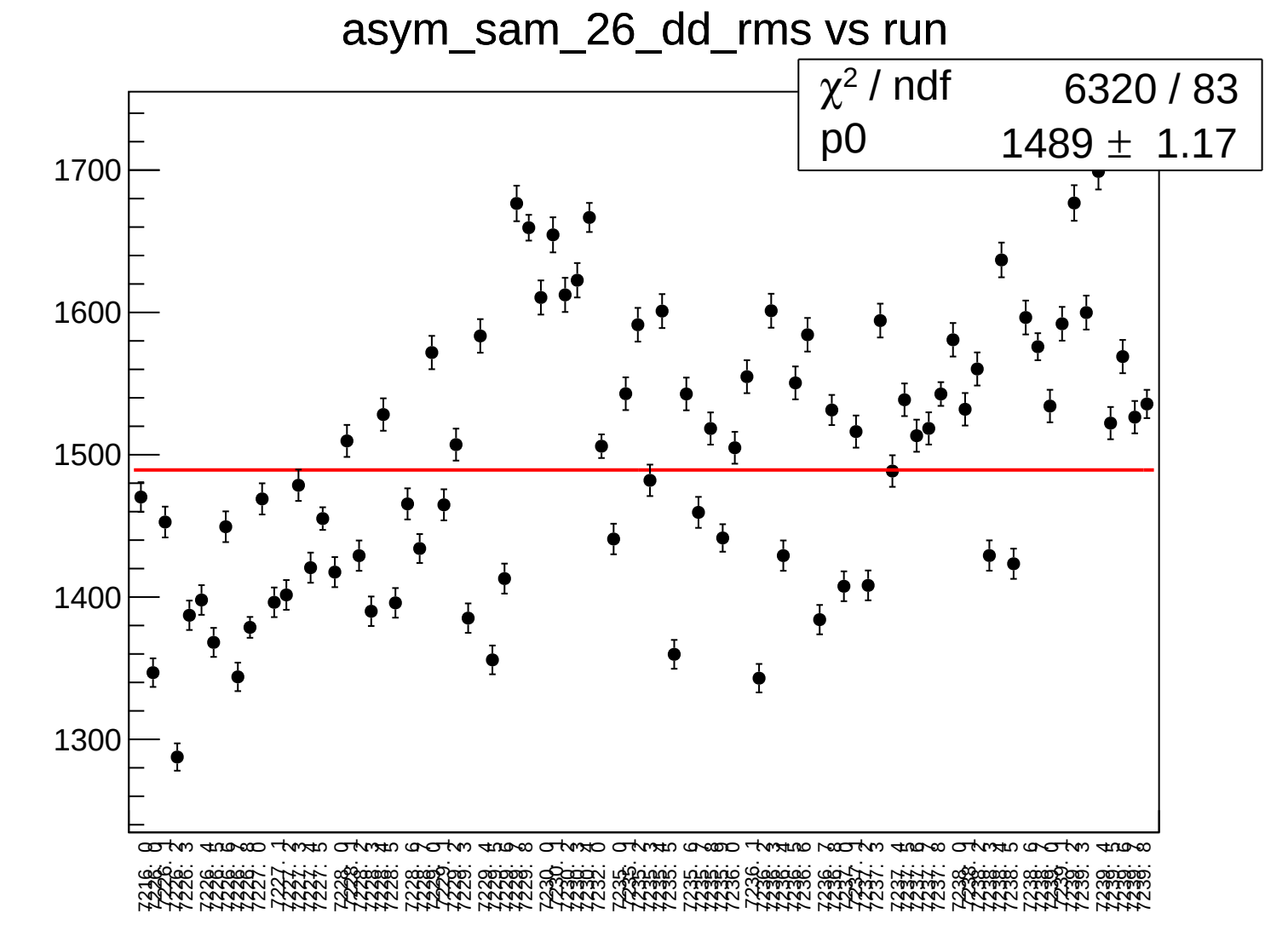

asym_sam_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 67.97 / 83
p0 −3451 ± 1683
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −197.7
Std Dev 0
2
1
0
−1
−2

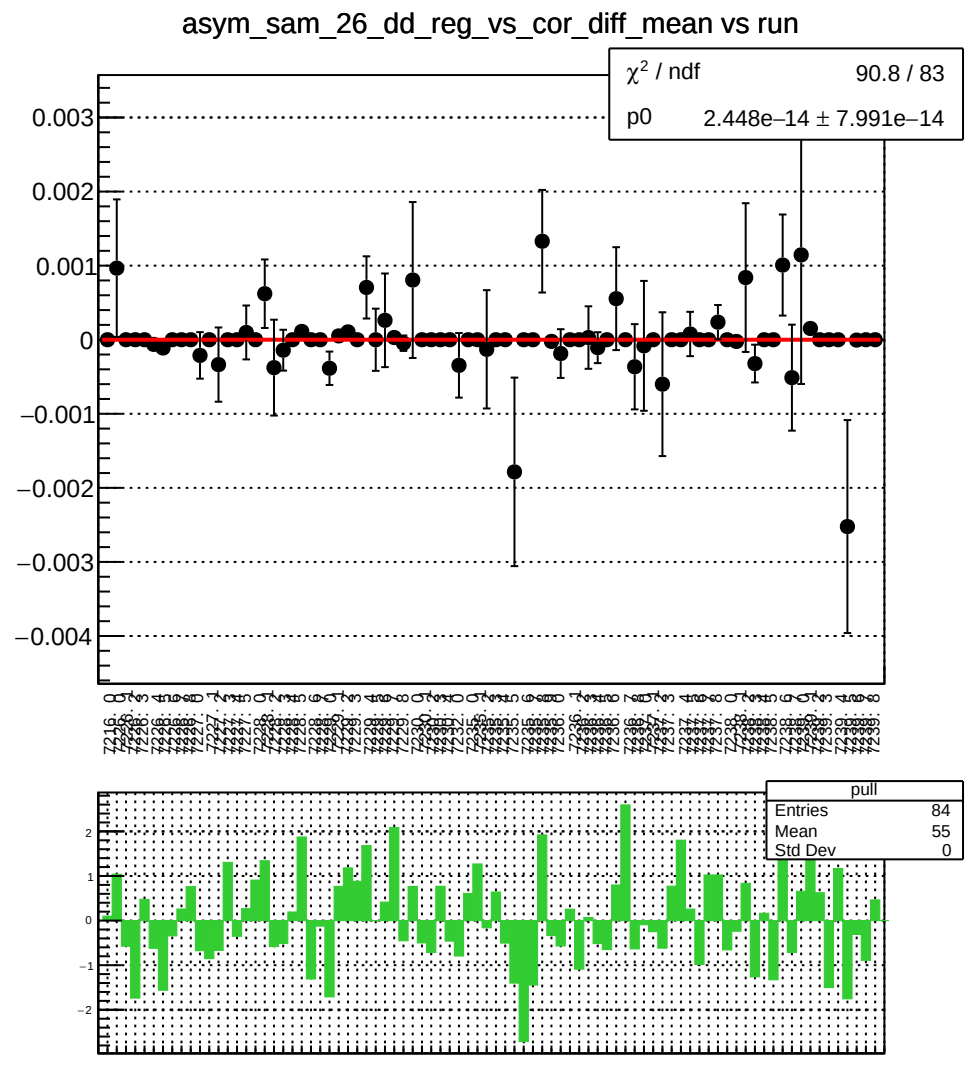

pull1D
Entries 84
Mean 0.006159
Std Dev 0.8995
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

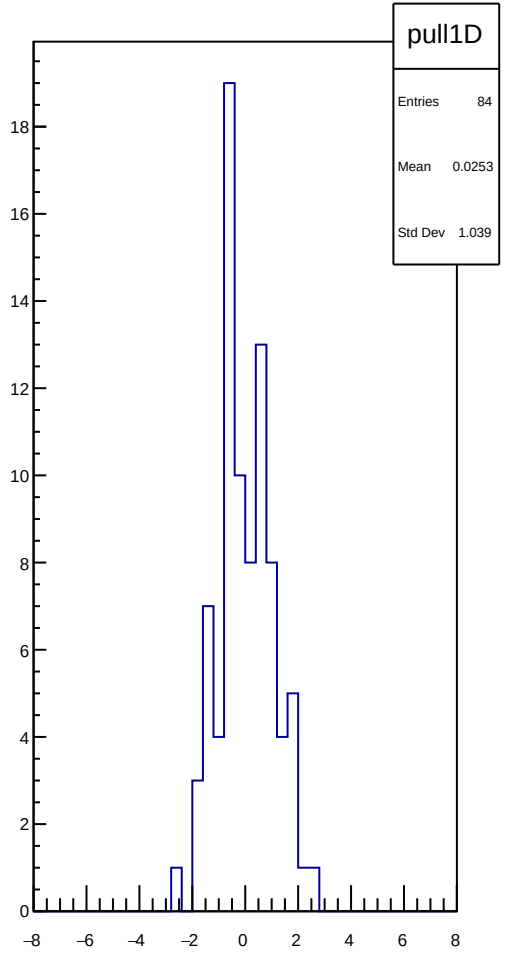

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 6198 / 83
p0 1515 ± 1.19
1700
1600
1500
1400
1300

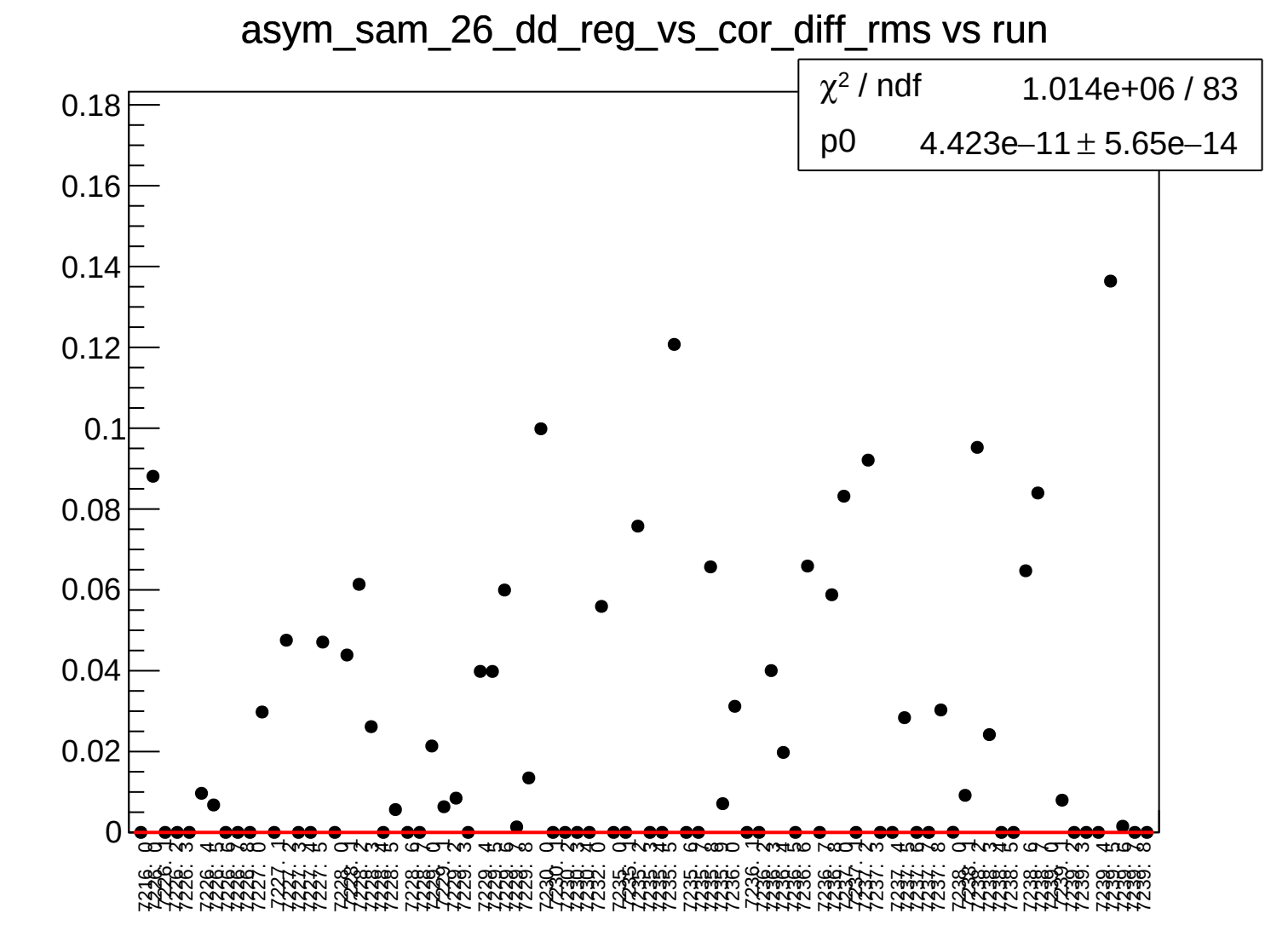

asym_sam_26_dd_mean vs run
χ² / ndf 72.01 / 83
p0 3855 ± 1655
60000
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −482.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

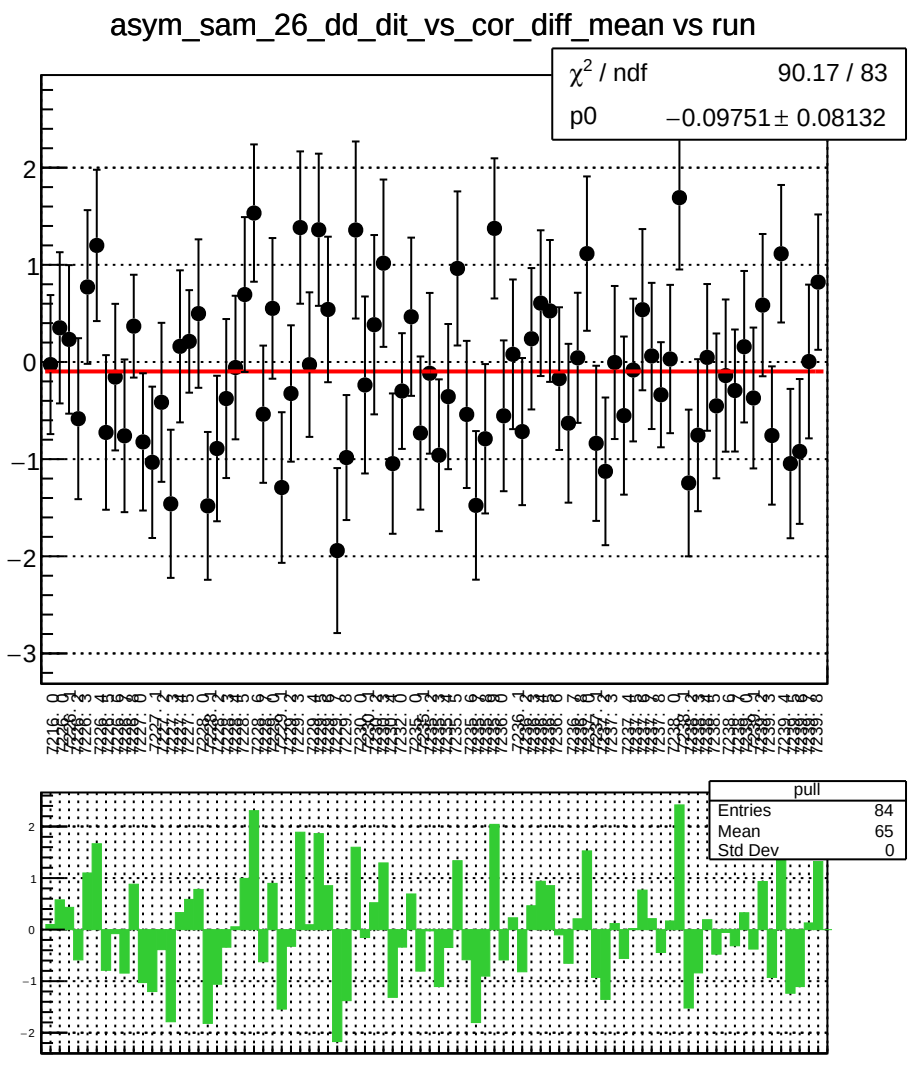

pull1D
Entries 84
Mean −0.003838
Std Dev 0.9259
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

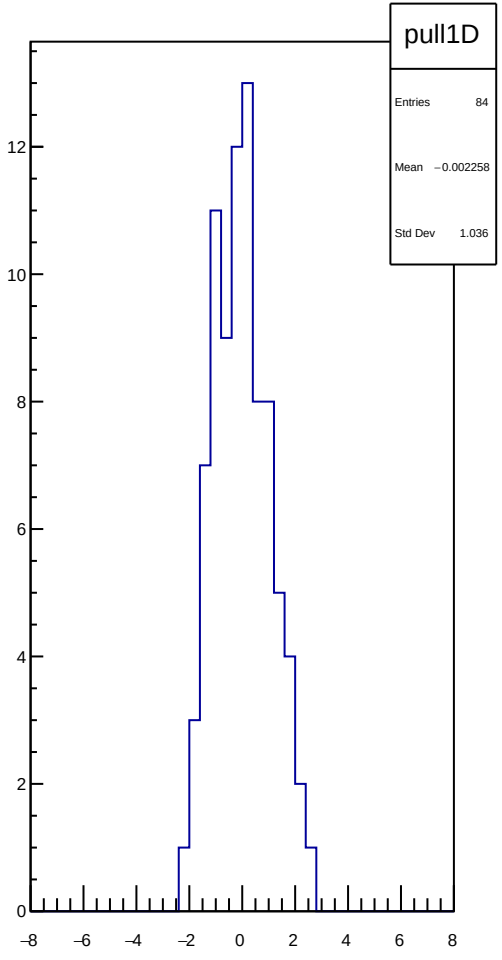

asym_sam_26_dd_rms vs run
χ² / ndf 6320 / 83
p0 1489 ± 1.17
1700
1600
1500
1400
1300

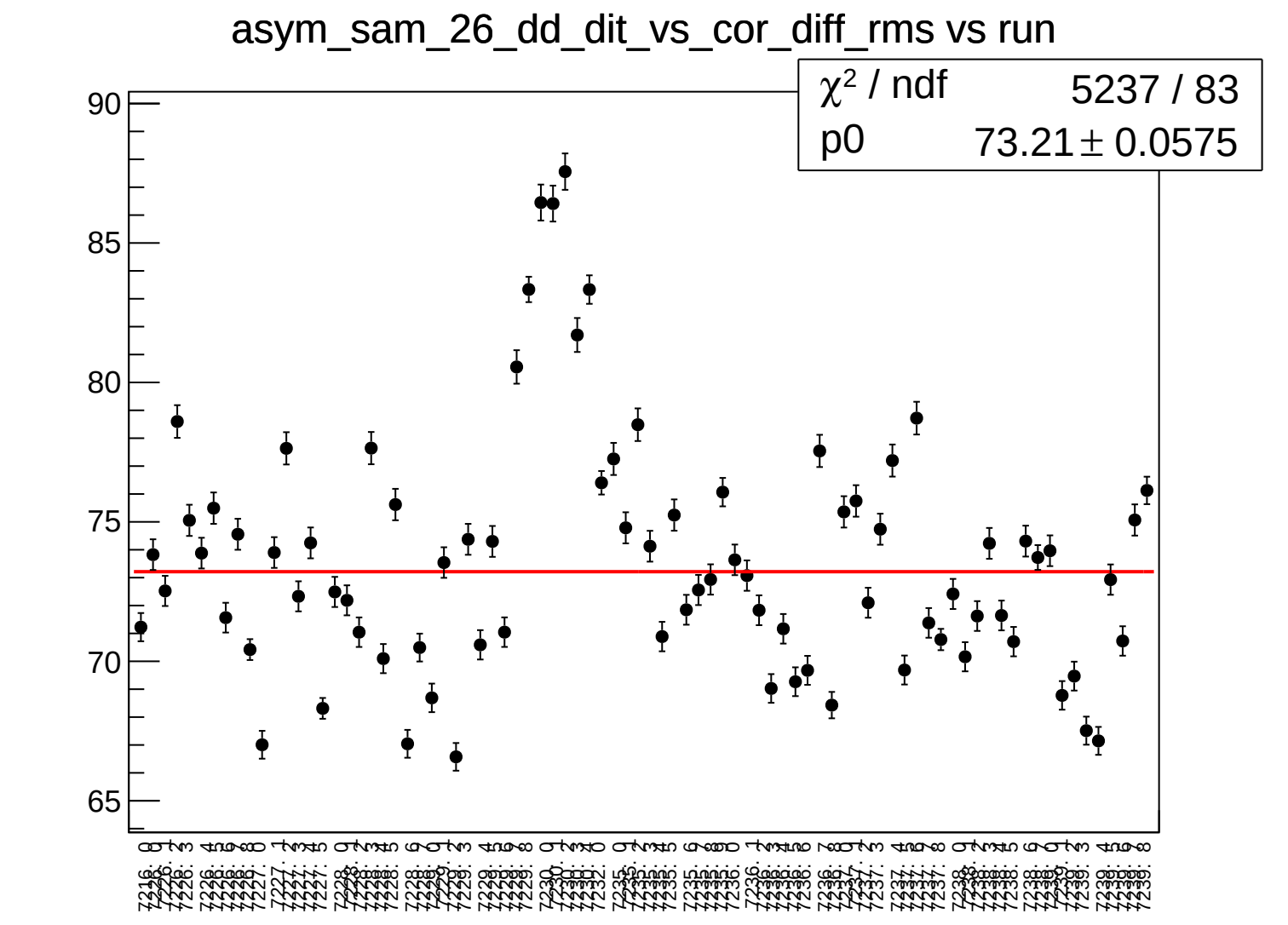

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 90.8 / 83
p0 2.448e−14 ± 7.991e−14
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
−0.004
pull
Entries 84
Mean 55
Std Dev 0
2
1
0
−1
−2

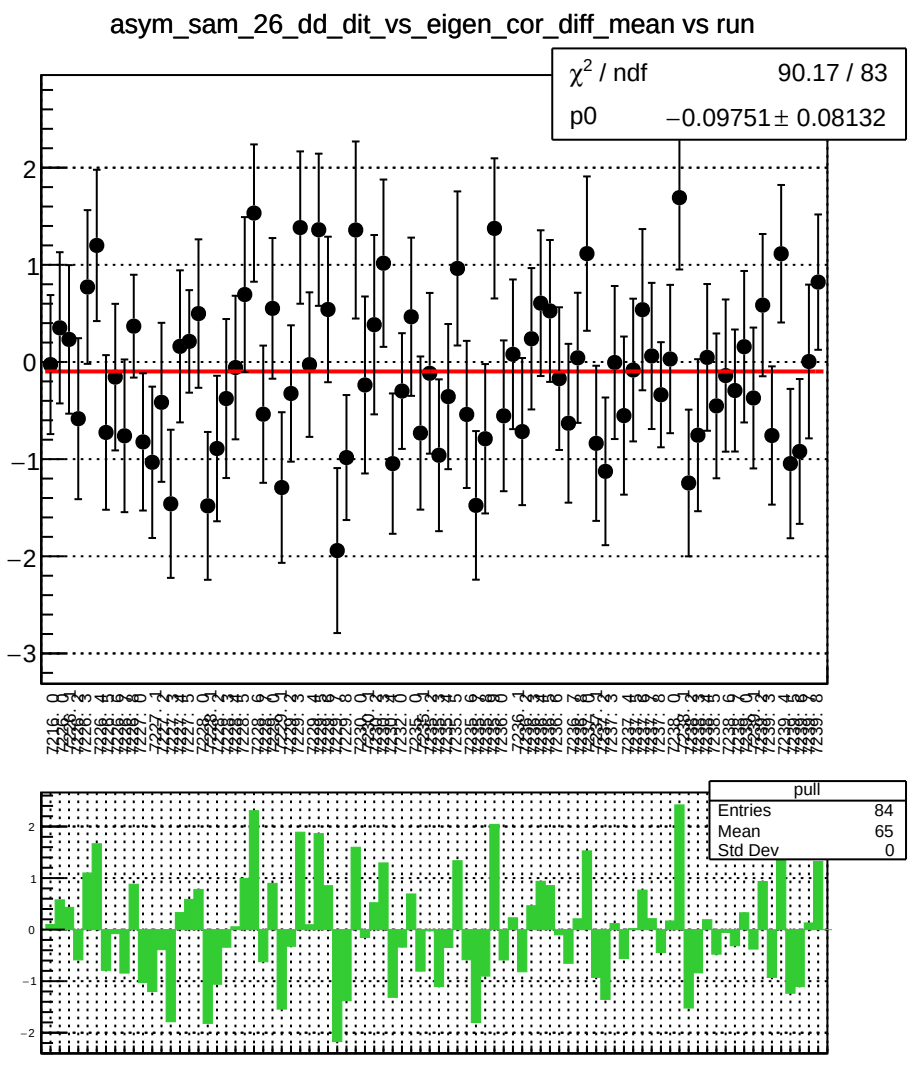

pull1D
Entries 84
Mean 0.0253
Std Dev 1.039
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

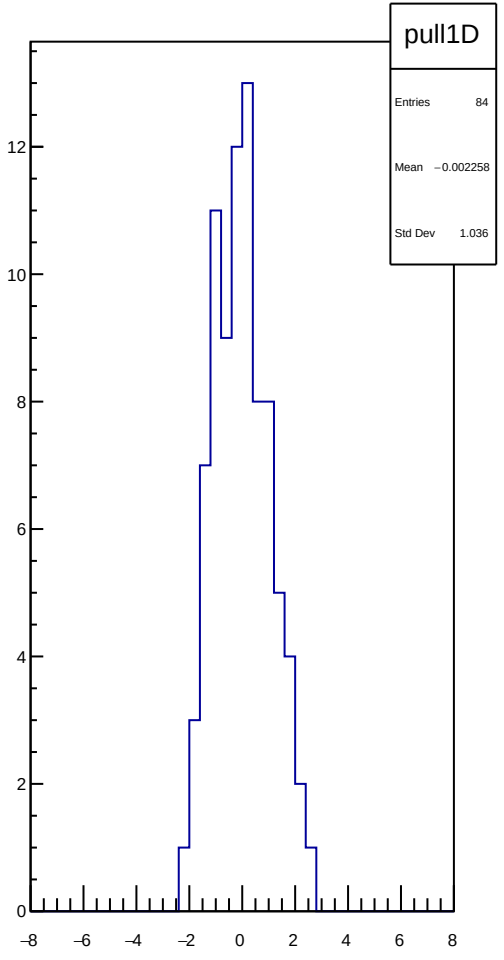

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.014e+06 / 83
p0 4.423e−11 ± 5.65e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

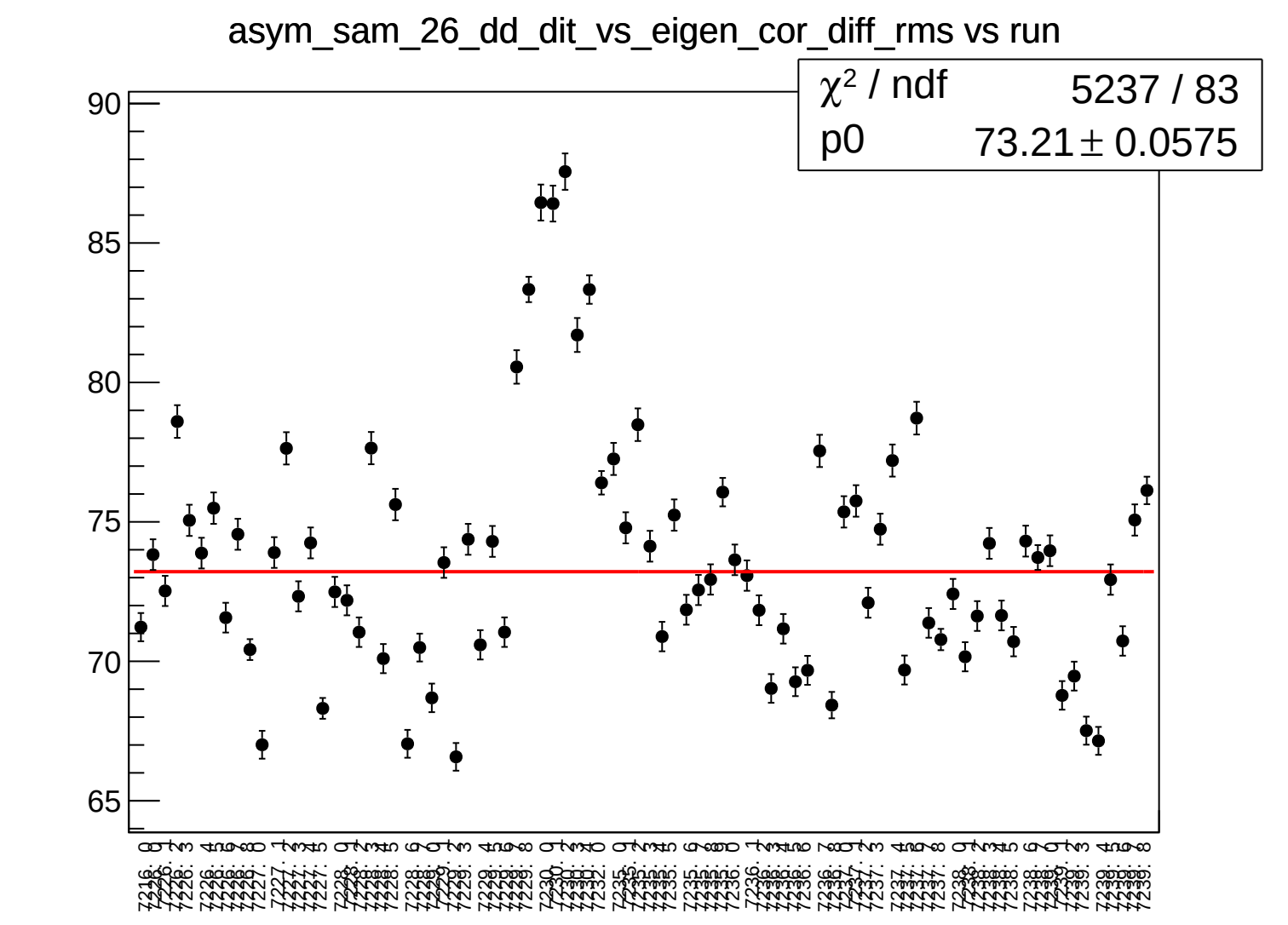

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 90.17 / 83
p0 −0.09751 ± 0.08132
pull
Entries 84
Mean 65
Std Dev 0

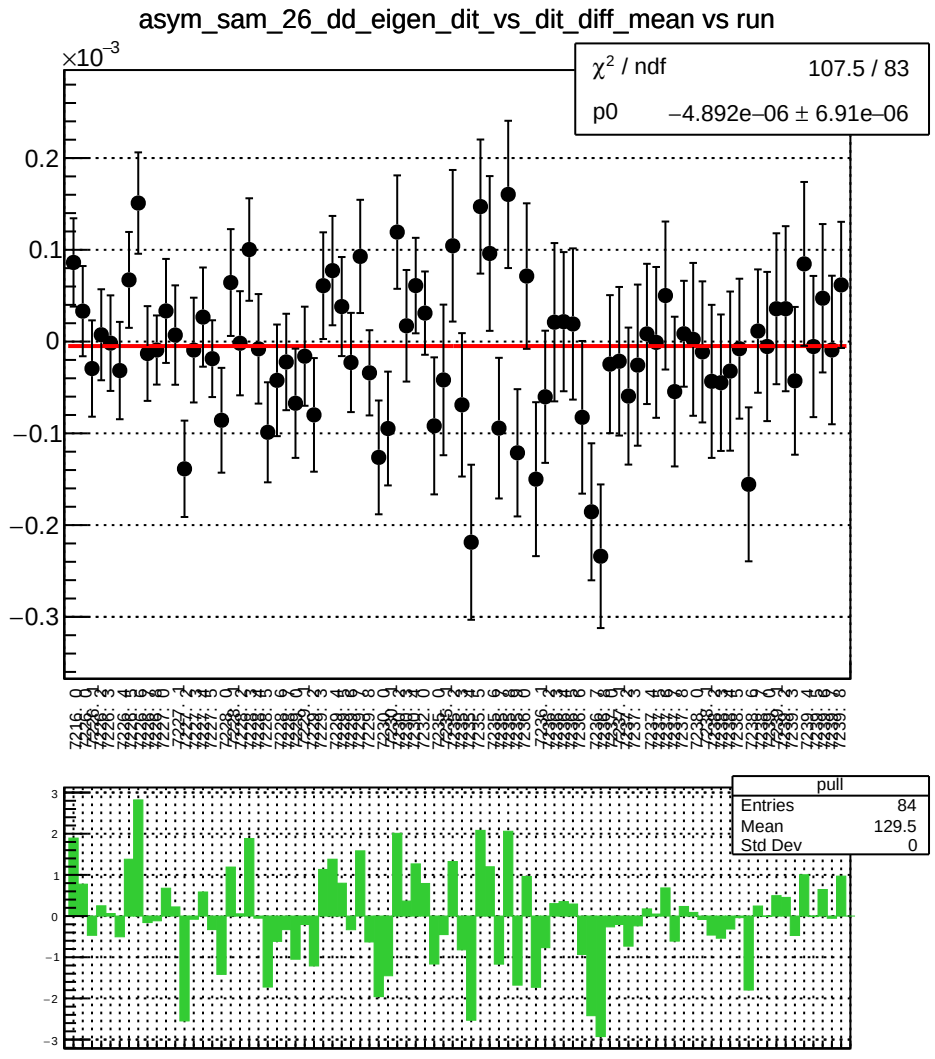

pull1D
Entries 84
Mean −0.002258
Std Dev 1.036

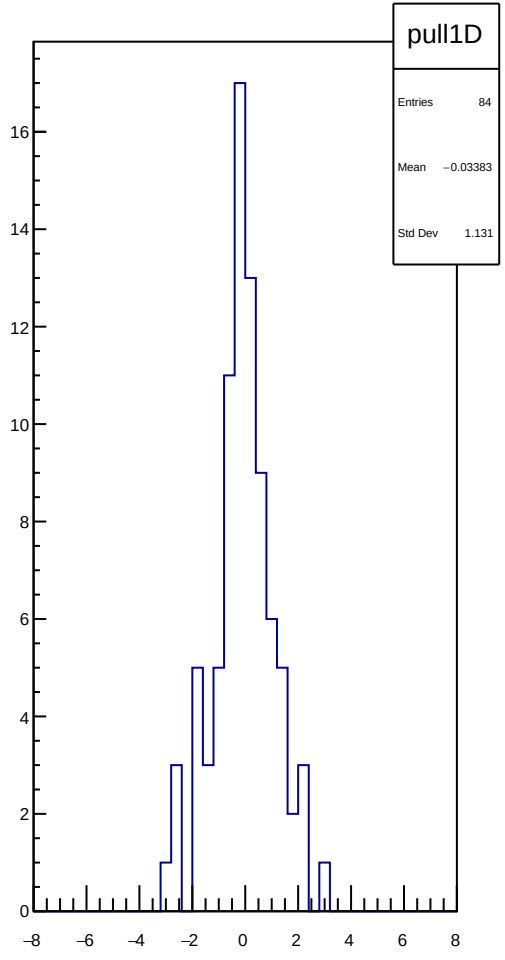

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5237 / 83
p0 73.21 ± 0.0575
90
85
80
75
70
65

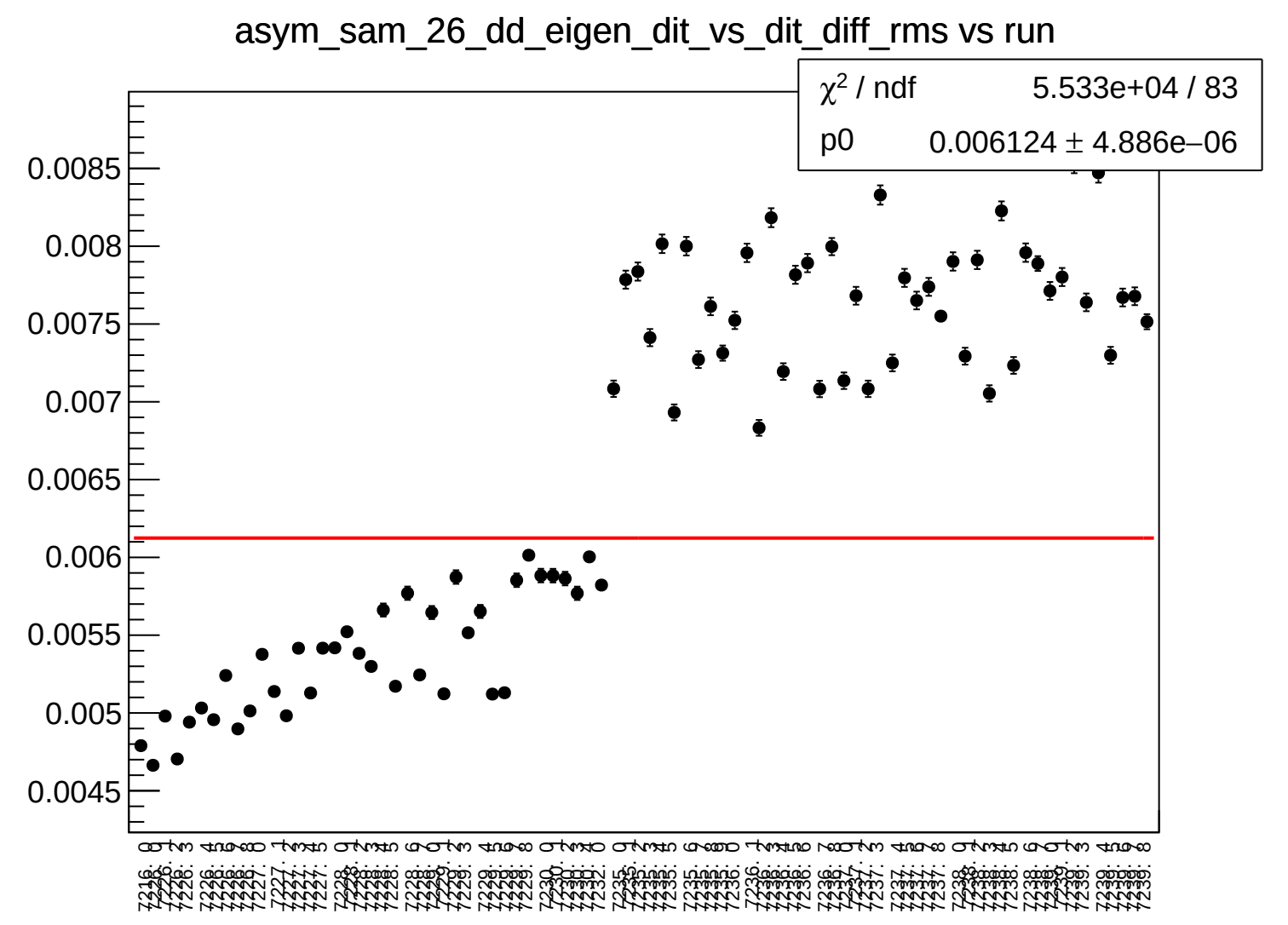

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.17 / 83
p0 −0.09751 ± 0.08132
pull
Entries 84
Mean 65
Std Dev 0

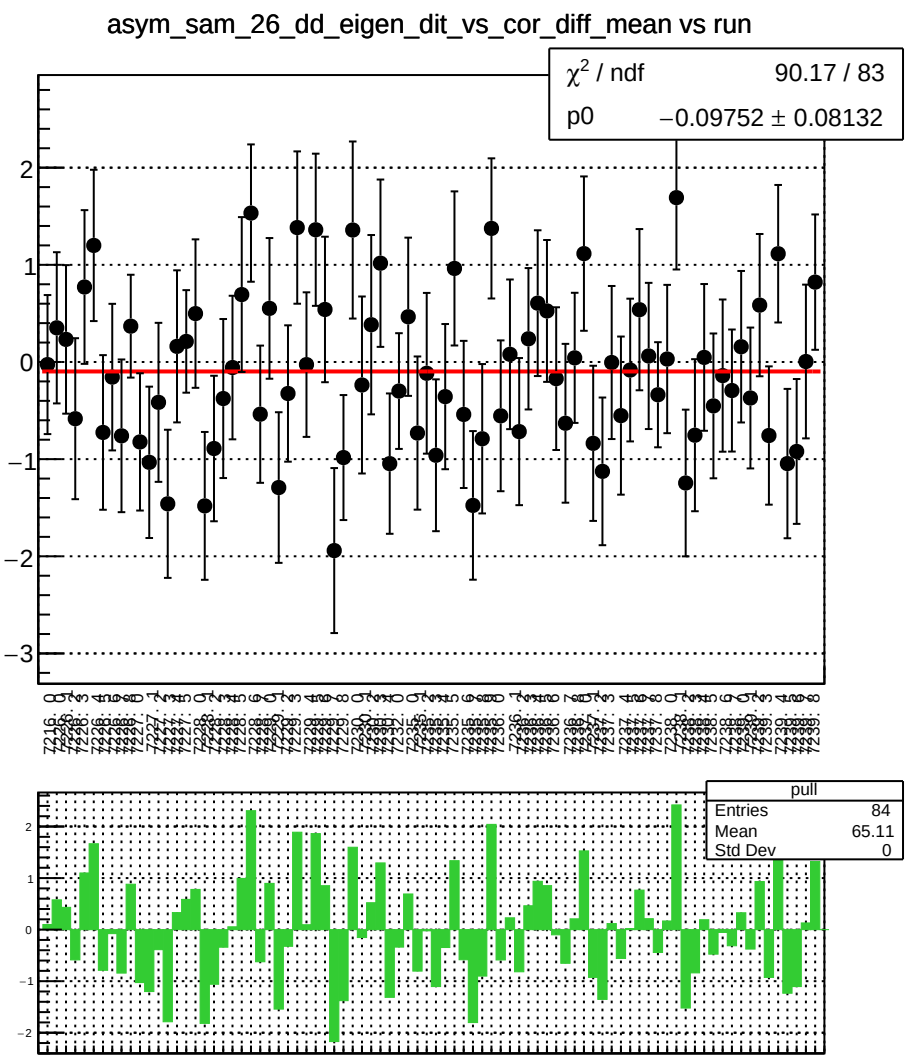

pull1D
Entries 84
Mean −0.002258
Std Dev 1.036

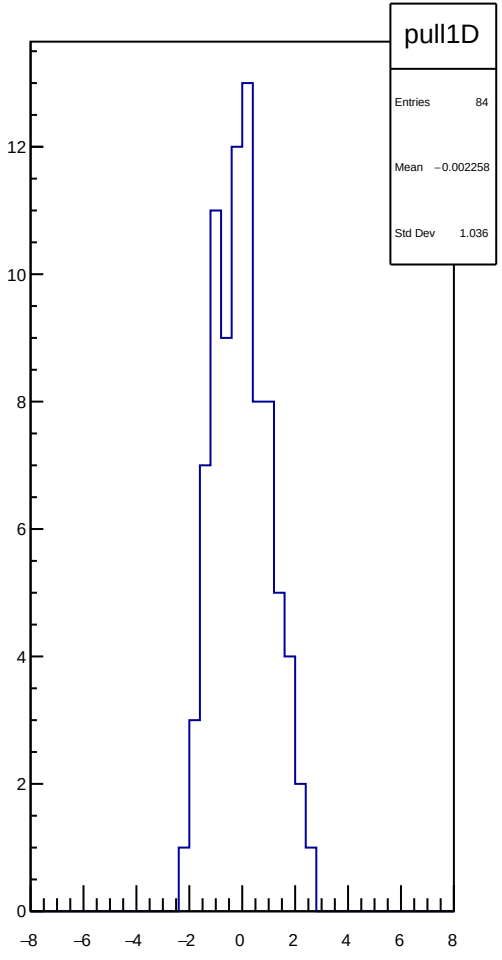

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5237 / 83
p0 73.21 ± 0.0575
90
85
80
75
70
65

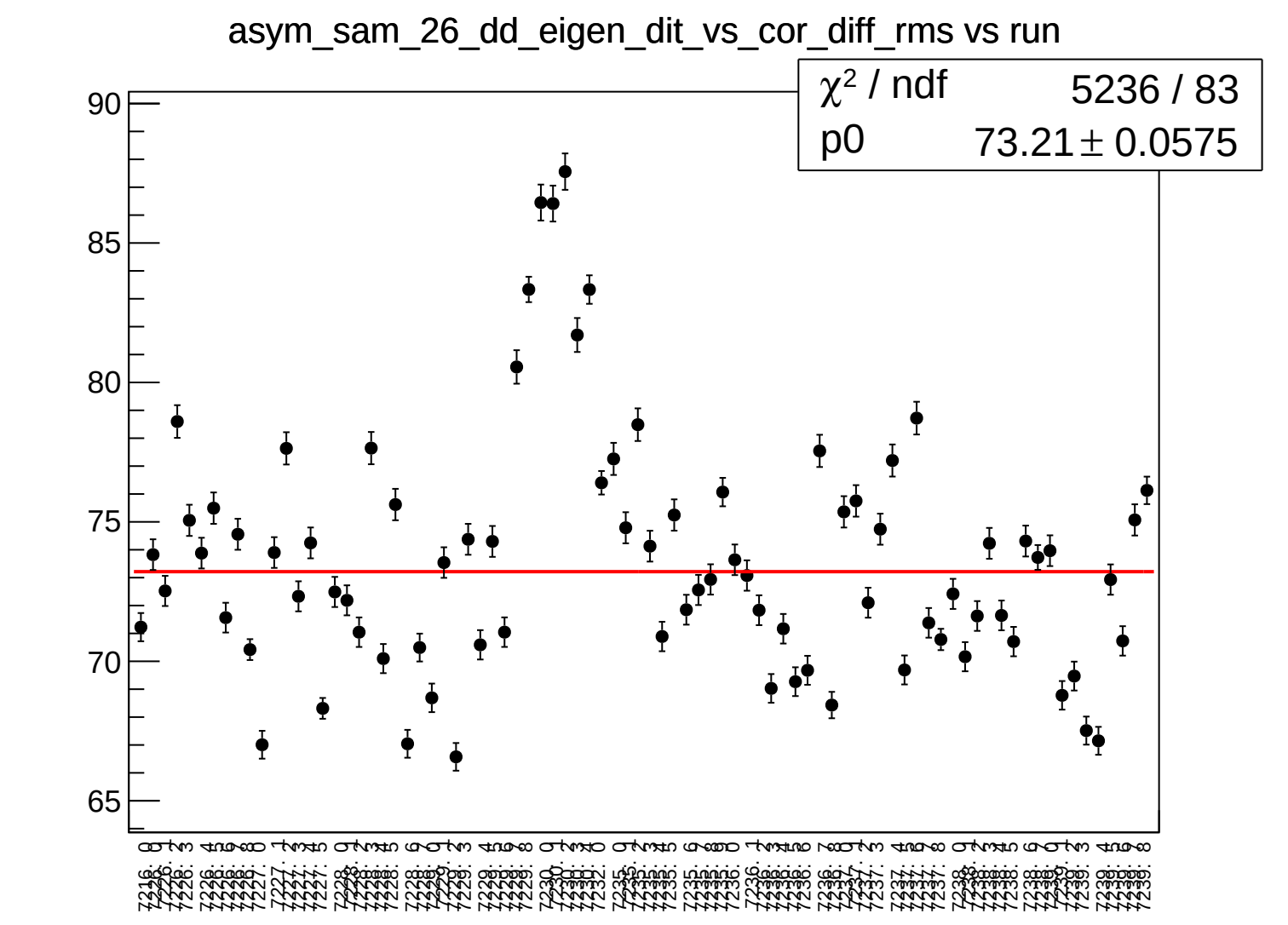

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 107.5 / 83
p0 −4.892e−06 ± 6.91e−06
pull
Entries 84
Mean 129.5
Std Dev 0


pull1D
Entries 84
Mean −0.03383
Std Dev 1.131

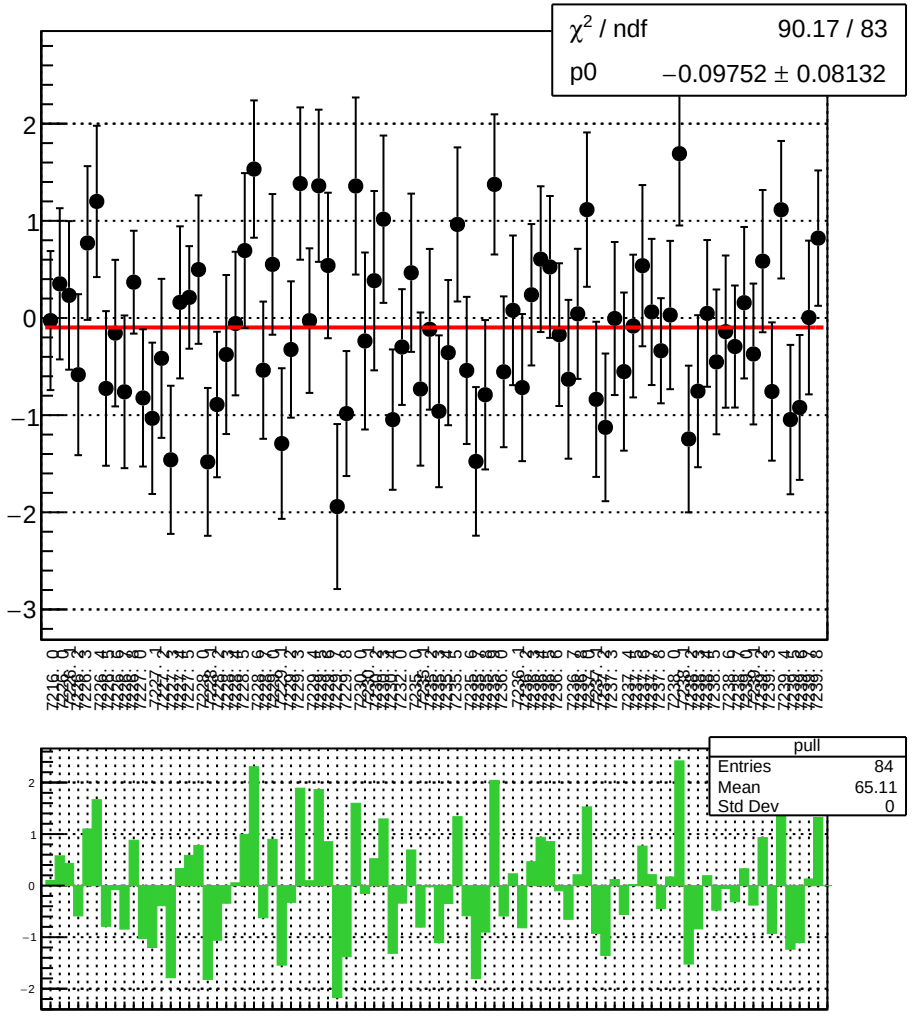

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.533e+04 / 83
p0 0.006124 ± 4.886e−06
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045

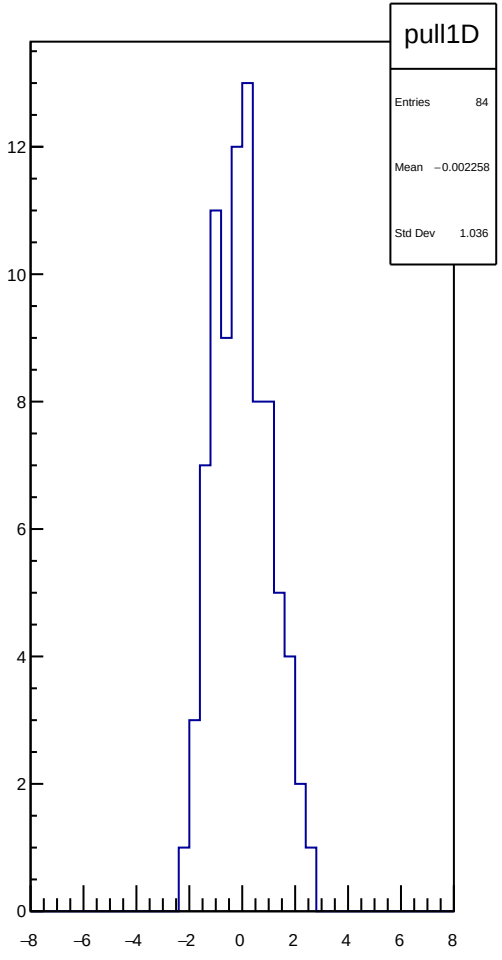

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.17 / 83
p0 −0.09752 ± 0.08132
pull
Entries 84
Mean 65.11
Std Dev 0

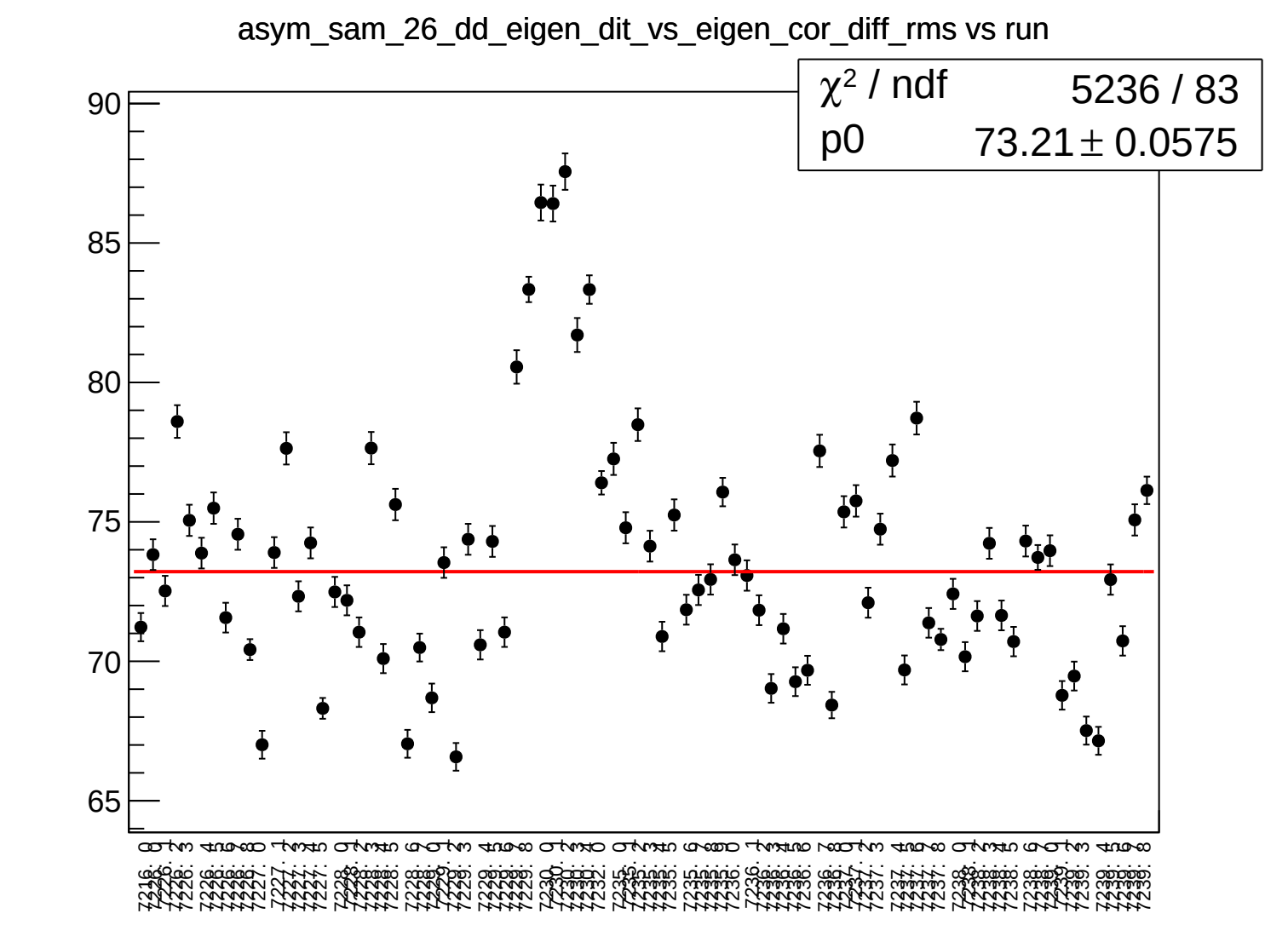

pull1D
Entries 84
Mean −0.002258
Std Dev 1.036

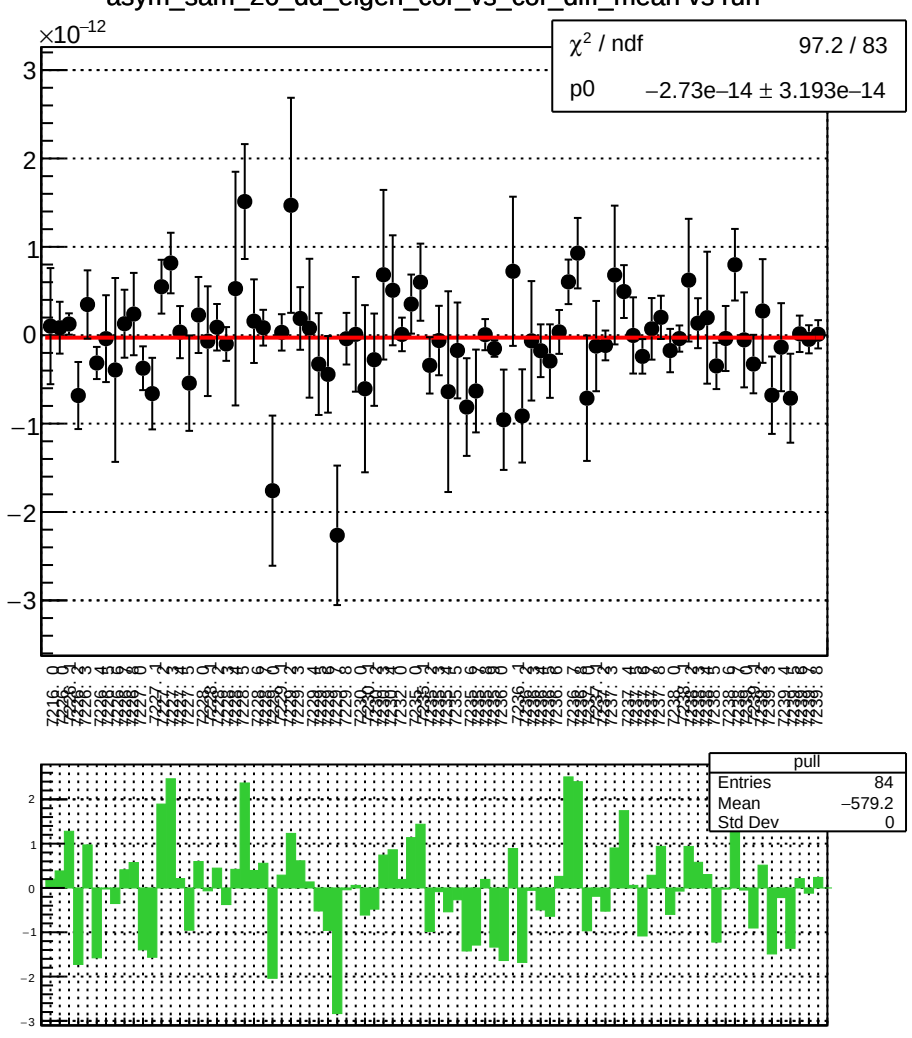

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5236 / 83
p0 73.21 ± 0.0575
90
85
80
75
70
65

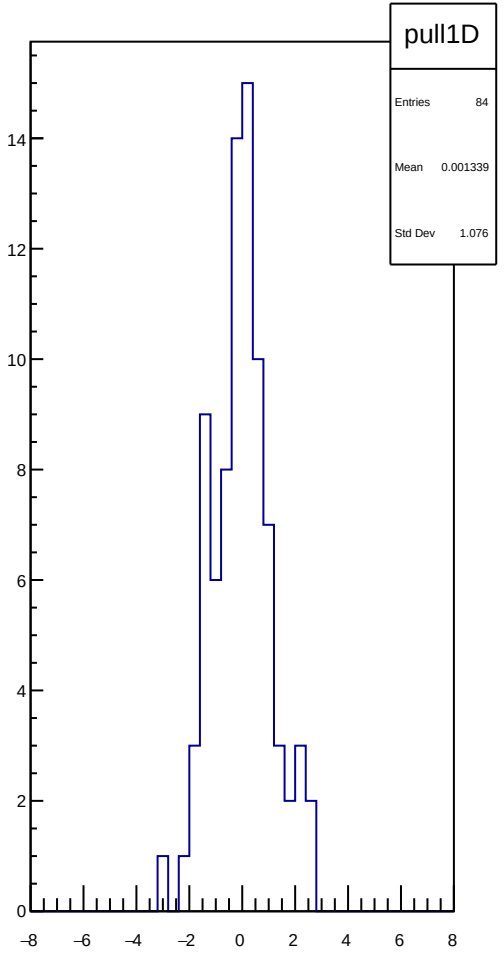
asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

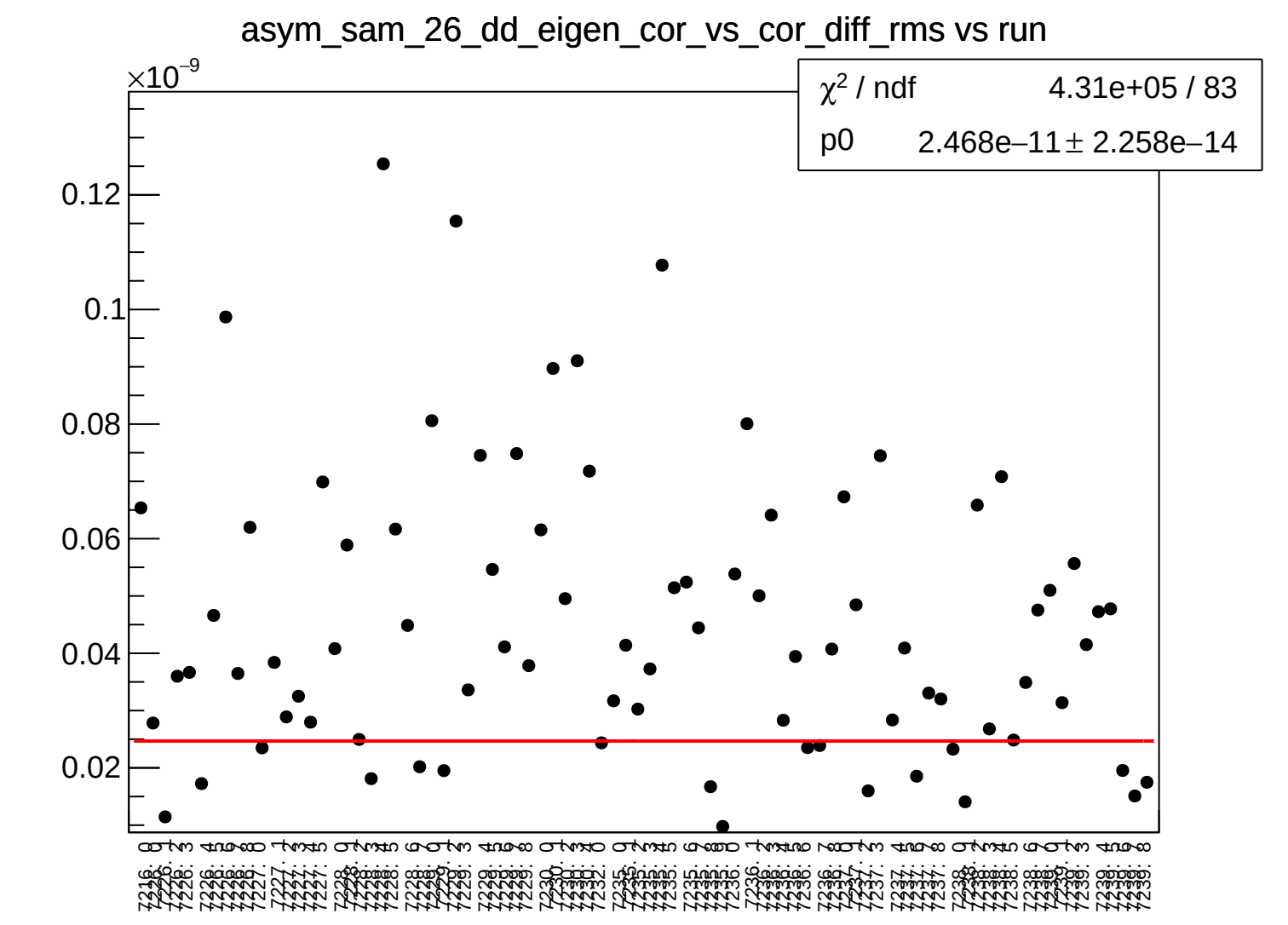


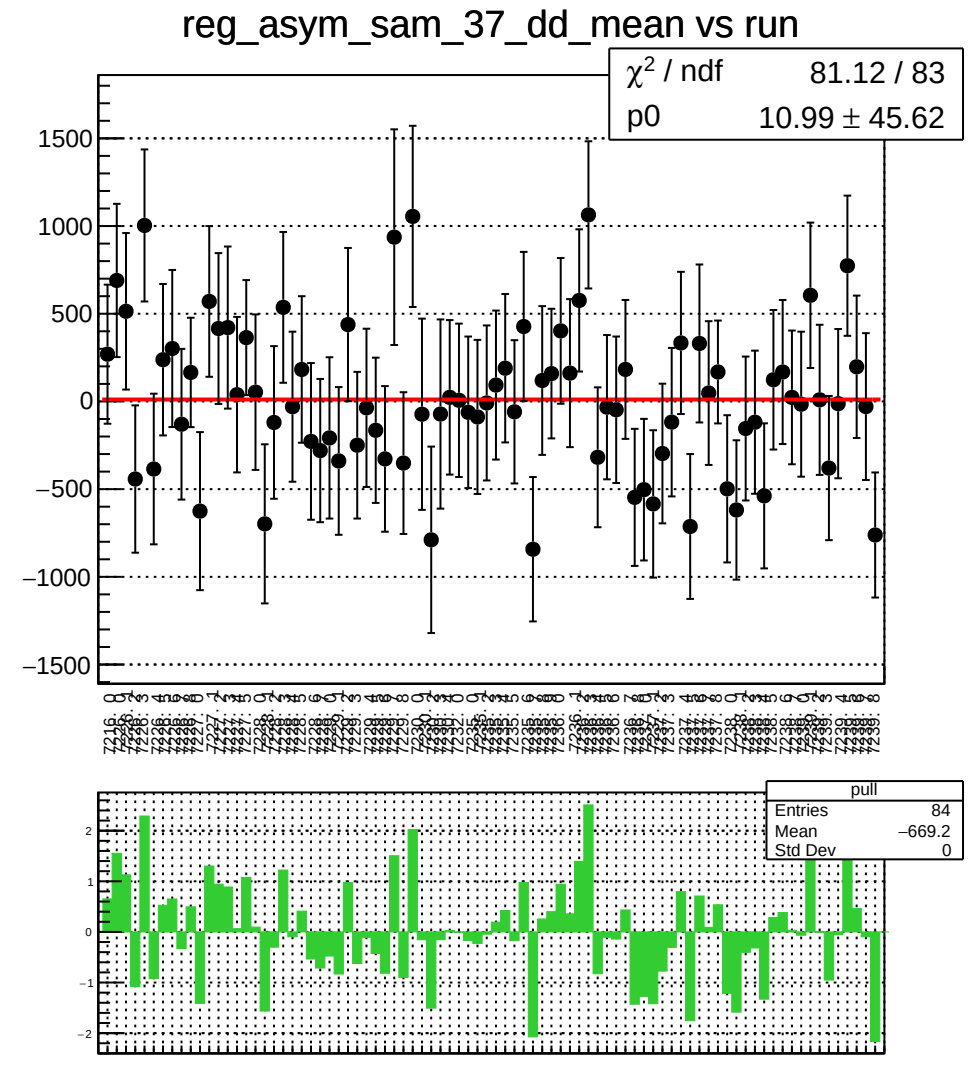


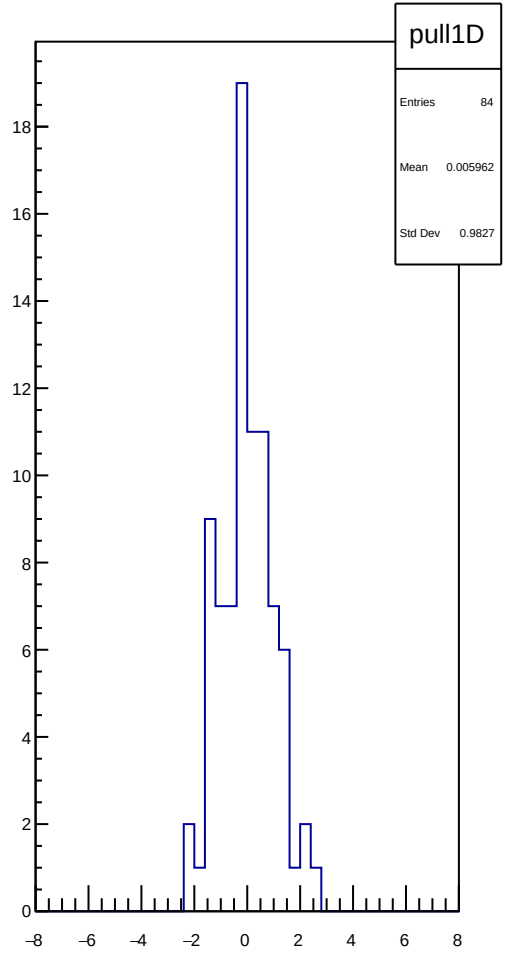

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5236 / 83
p0 73.21 ± 0.0575
90
85
80
75
70
65

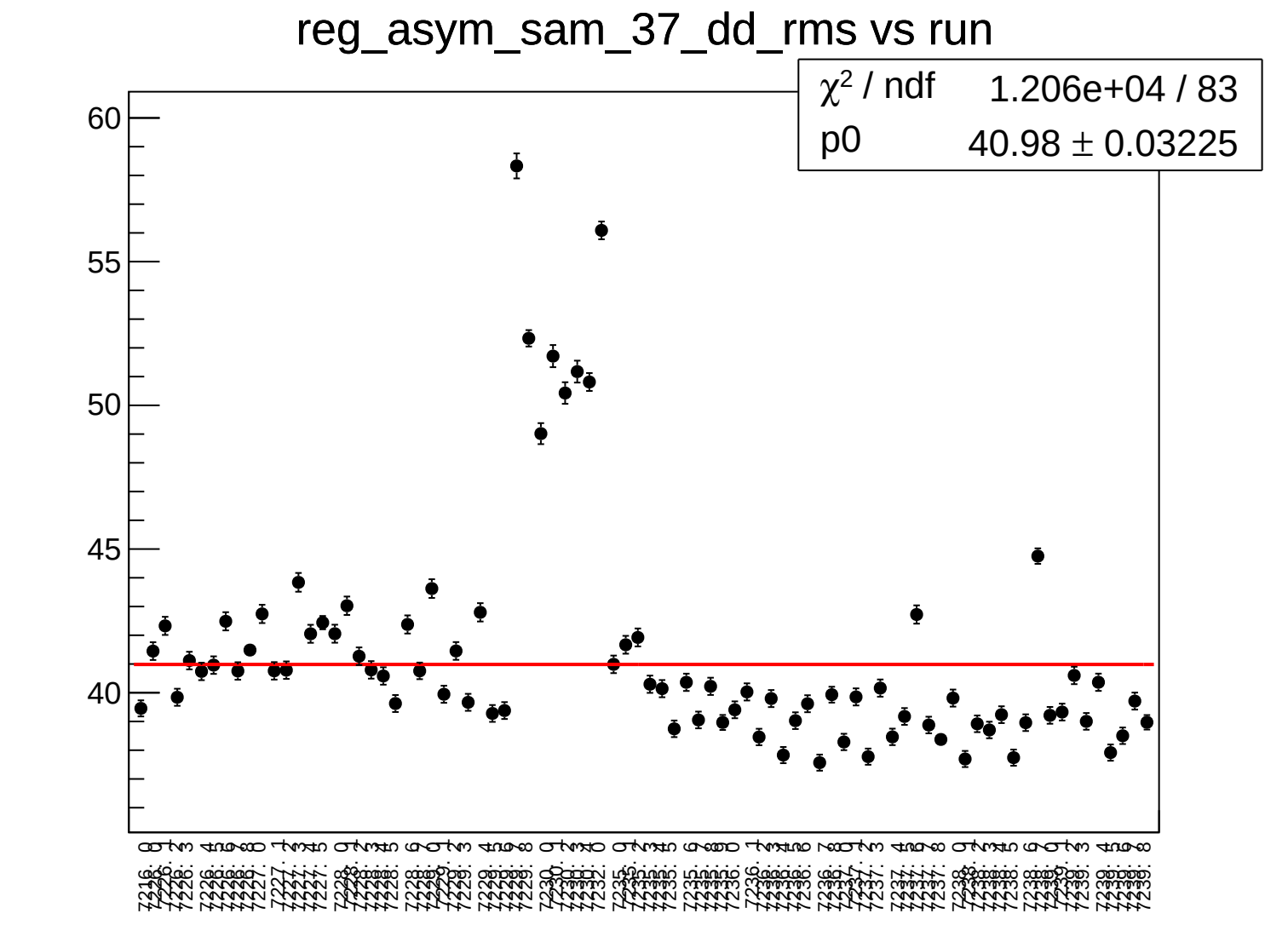

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.2 / 83
p0 −2.73e−14 ± 3.193e−14
pull
Entries 84
Mean −579.2
Std Dev 0

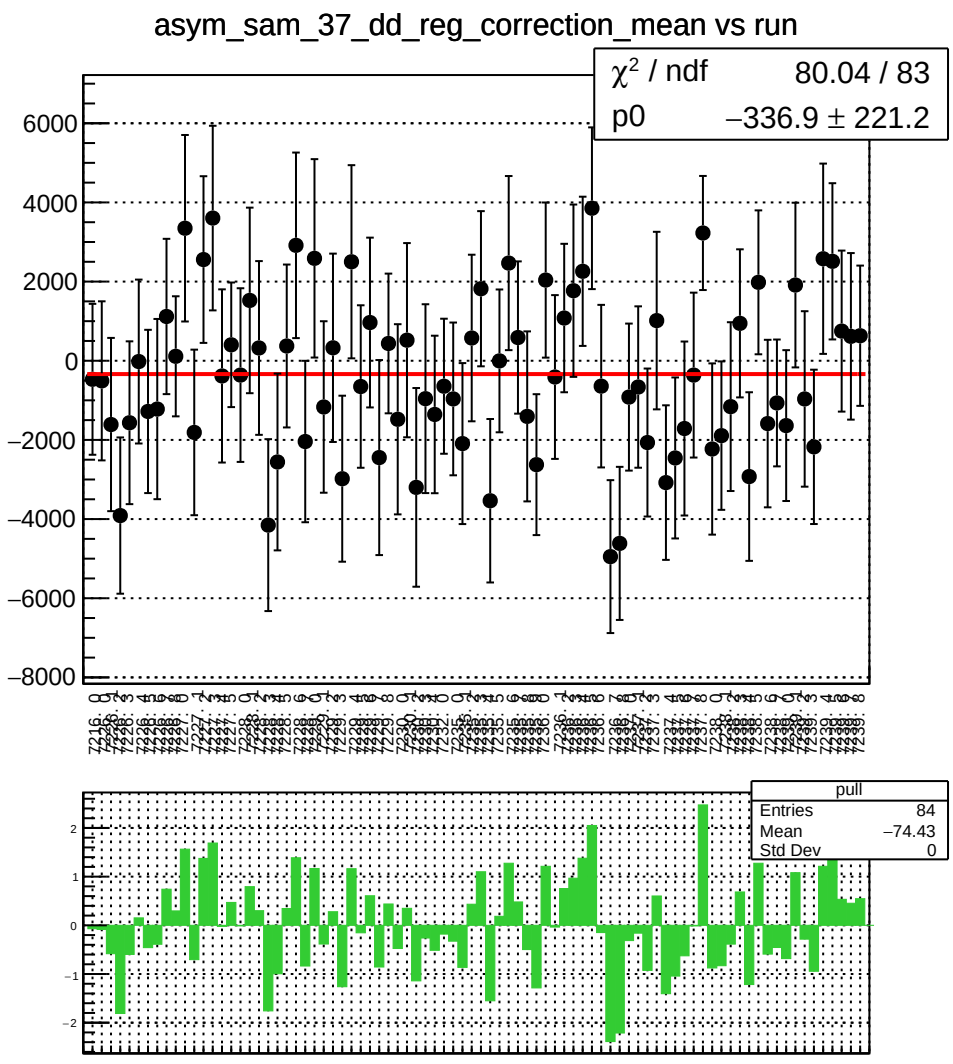

pull1D
Entries 84
Mean 0.001339
Std Dev 1.076

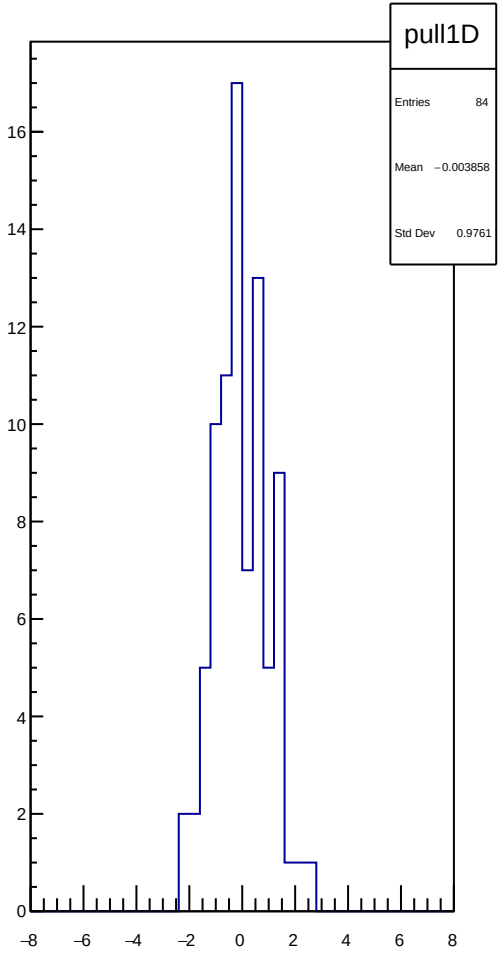

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.31e+05 / 83
p0 2.468e−11 ± 2.258e−14
0.12
0.1
0.08
0.06
0.04
0.02

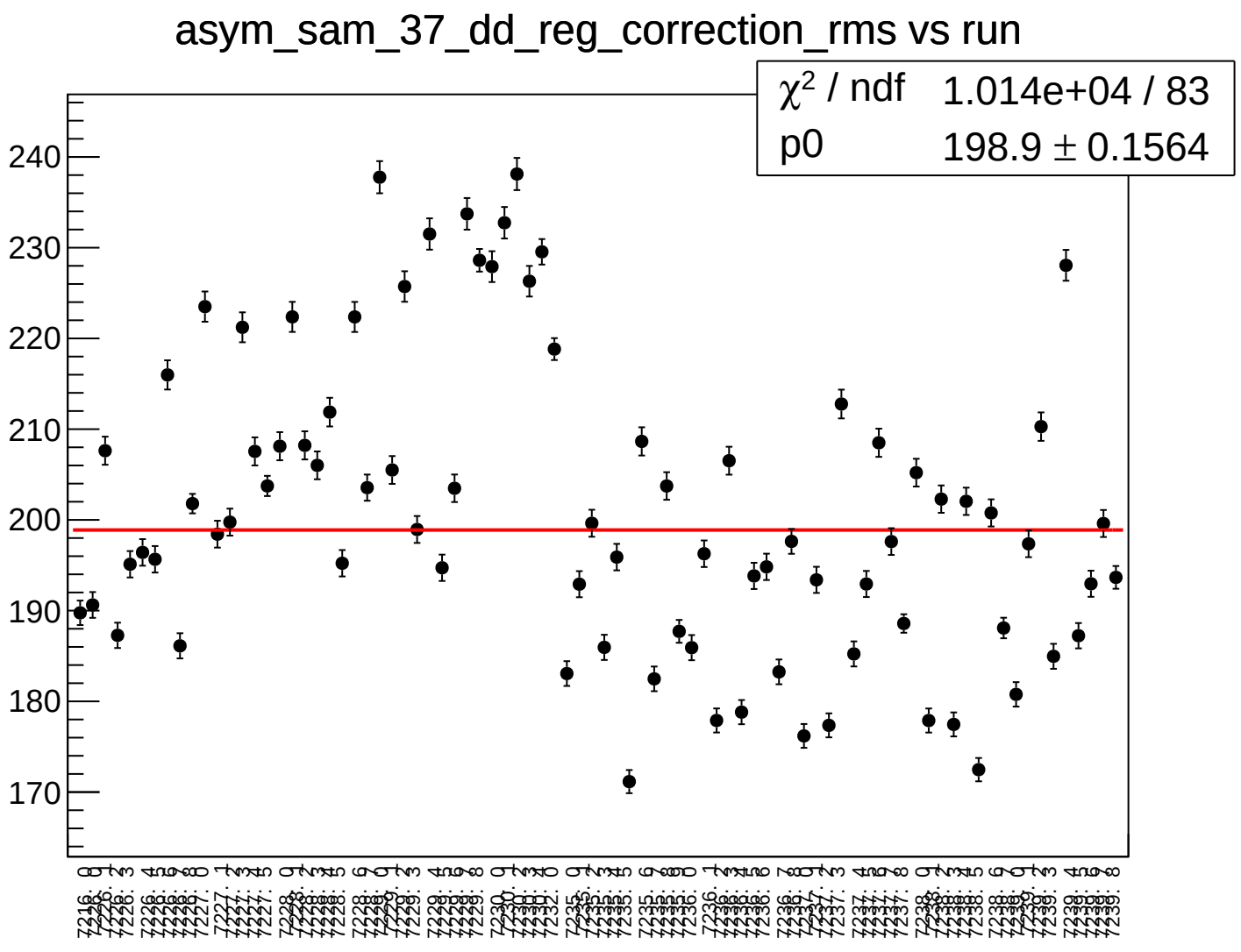

reg_asym_sam_37_dd_mean vs run
χ^2 / ndf 81.12 / 83
p0 10.99 ± 45.62
1500
1000
500
0
−500
−1000
−1500
pull
Entries 84
Mean −669.2
Std Dev 0

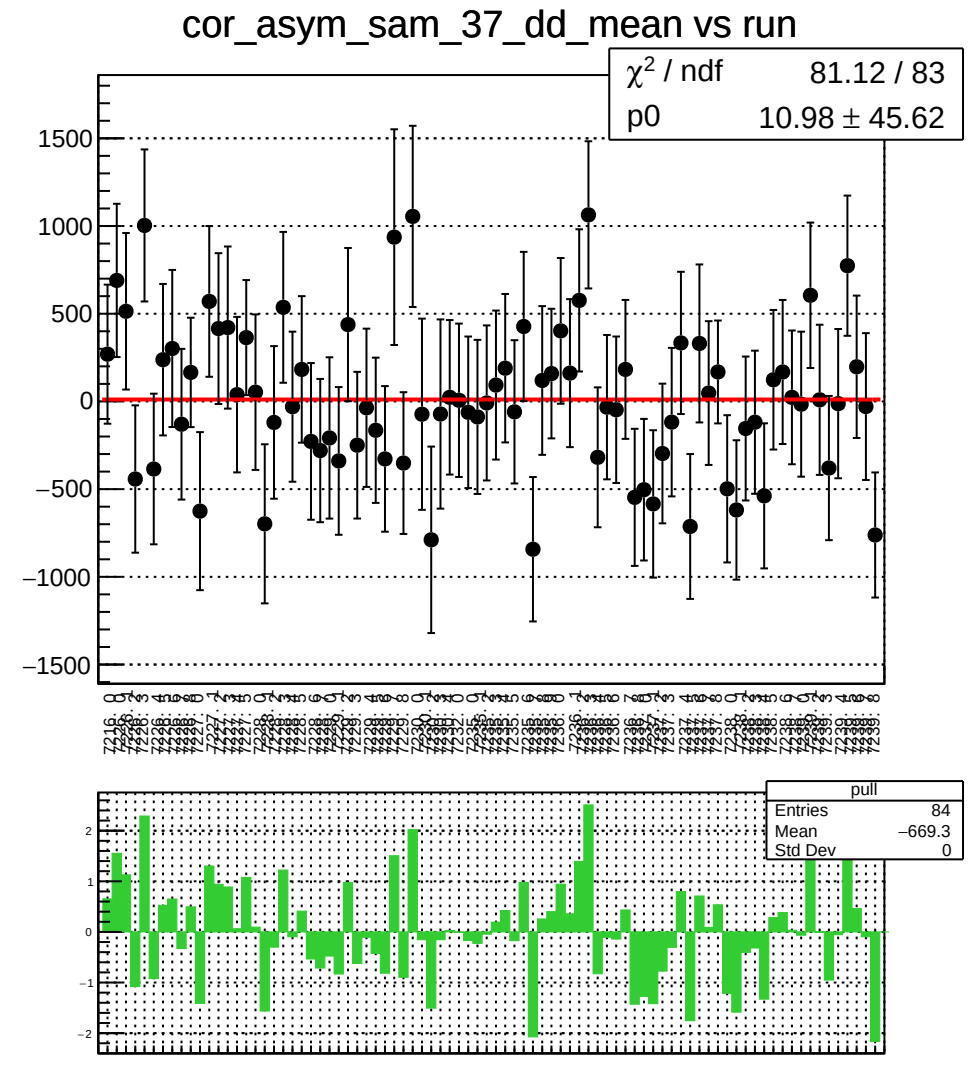

pull1D
Entries 84
Mean 0.005962
Std Dev 0.9827
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

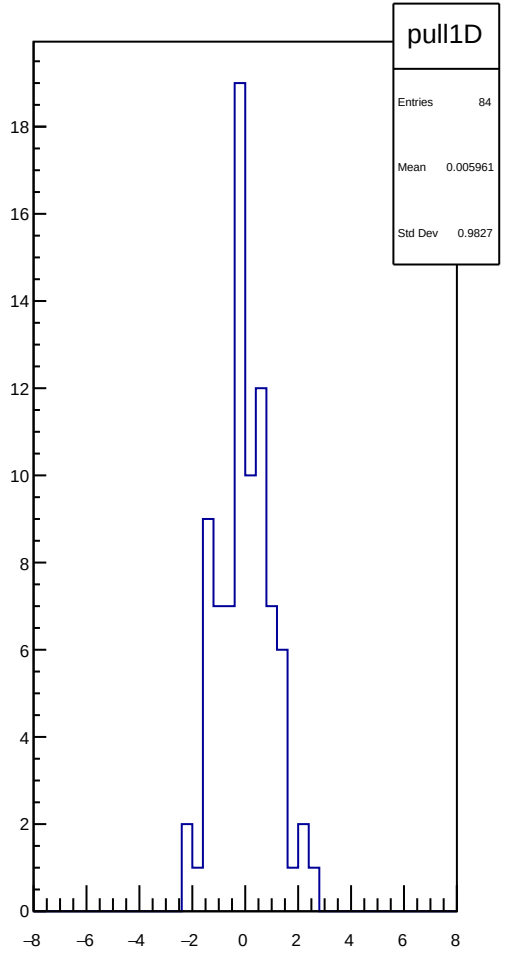

reg_asym_sam_37_dd_rms vs run
χ^2 / ndf 1.206e+04 / 83
p0 40.98 ± 0.03225
60
55
50
45
40

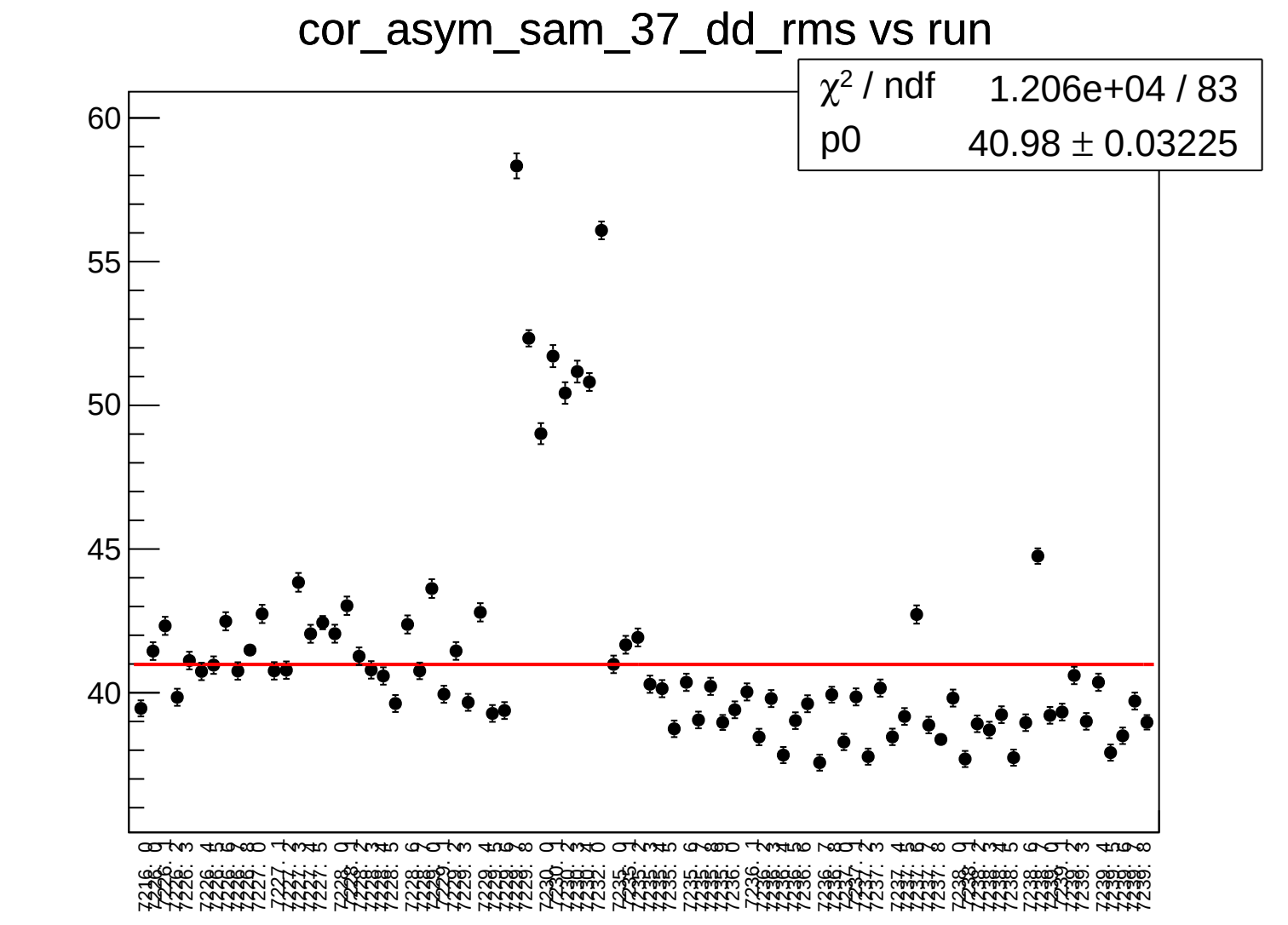

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 80.04 / 83
p0 −336.9 ± 221.2
pull
Entries 84
Mean −74.43
Std Dev 0

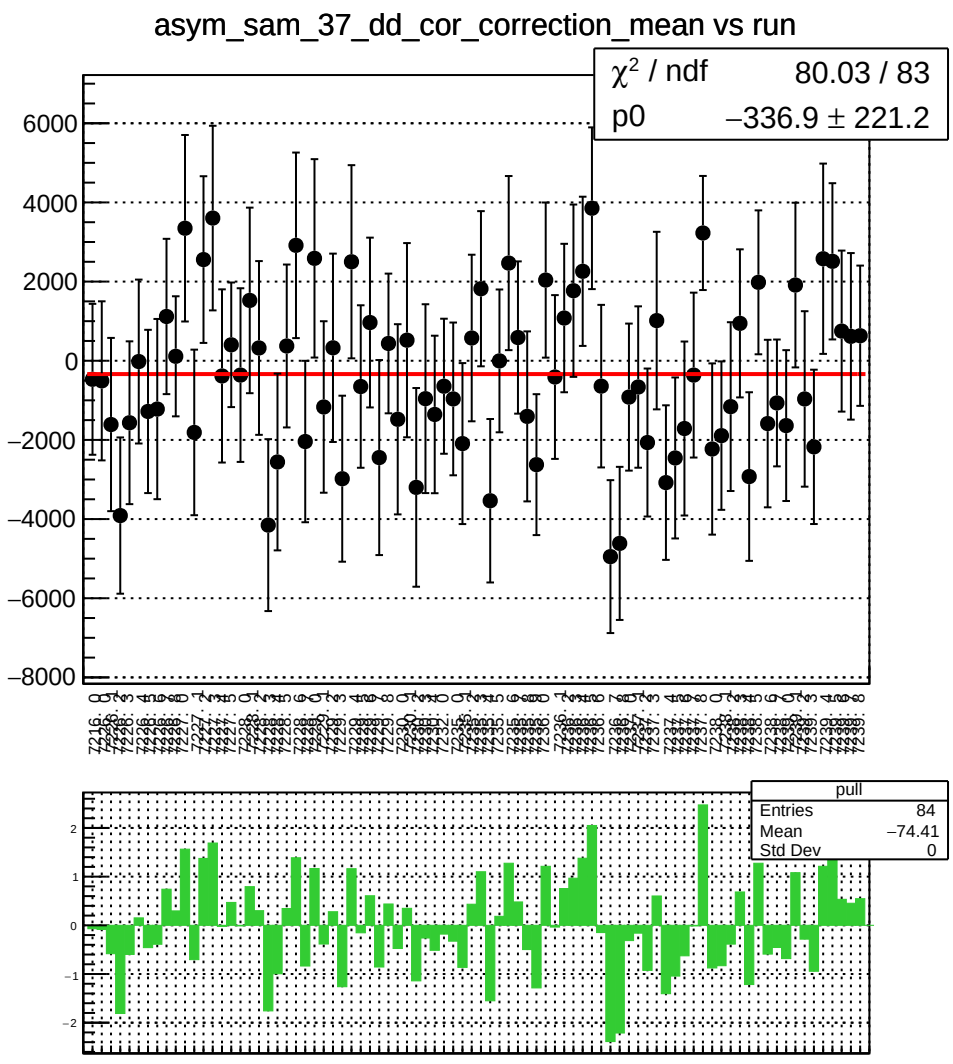

pull1D
Entries 84
Mean −0.003858
Std Dev 0.9761

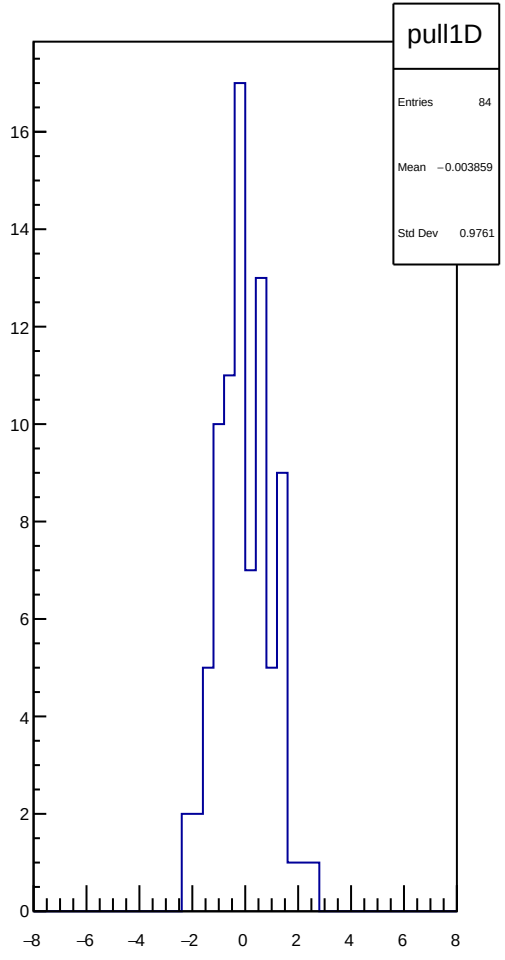

asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 1.014e+04 / 83
p0 198.9 ± 0.1564
240
230
220
210
200
190
180
170

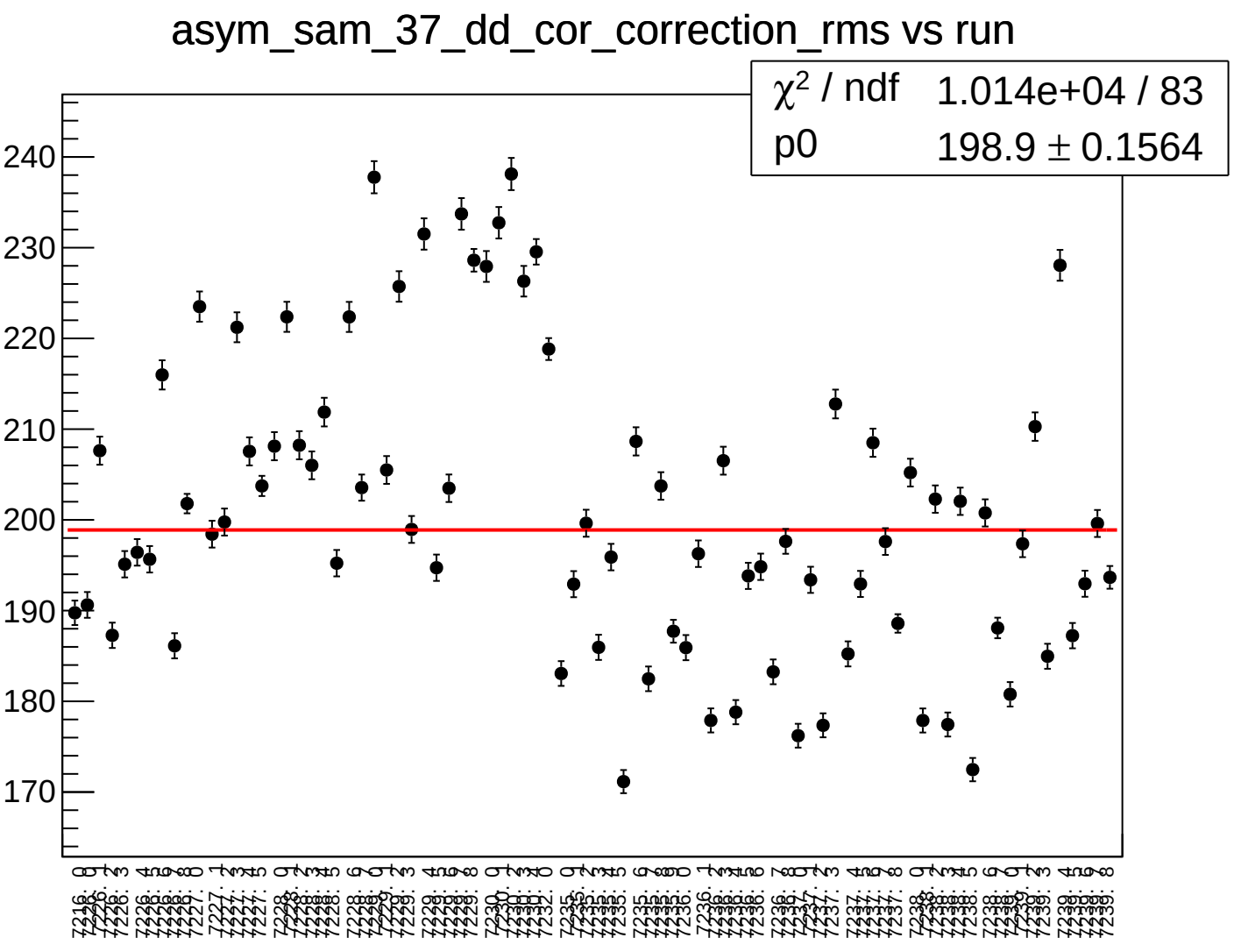

cor_asym_sam_37_dd_mean vs run
χ² / ndf 81.12 / 83
p0 10.98 ± 45.62
1500
1000
500
0
−500
−1000
−1500
pull
Entries 84
Mean −669.3
Std Dev 0
2
1
0
−1
−2

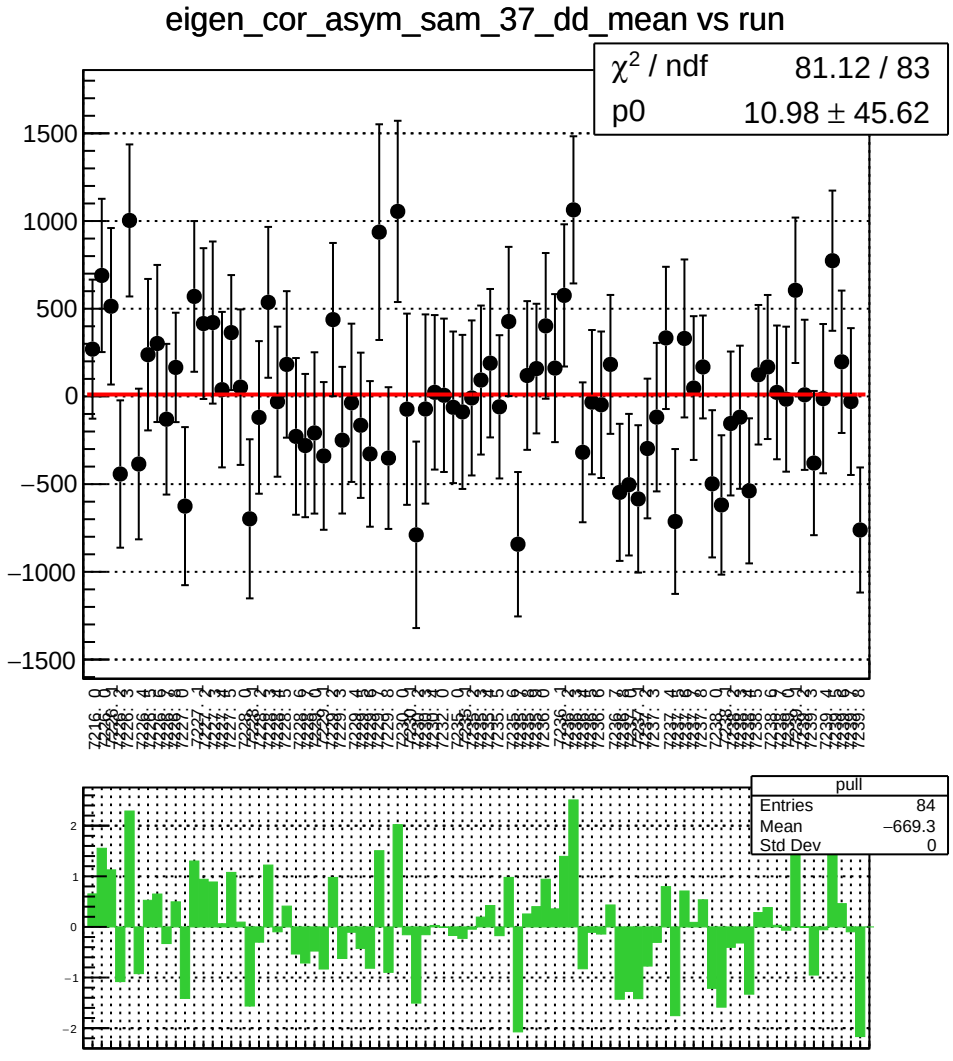

pull1D
Entries 84
Mean 0.005961
Std Dev 0.9827
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

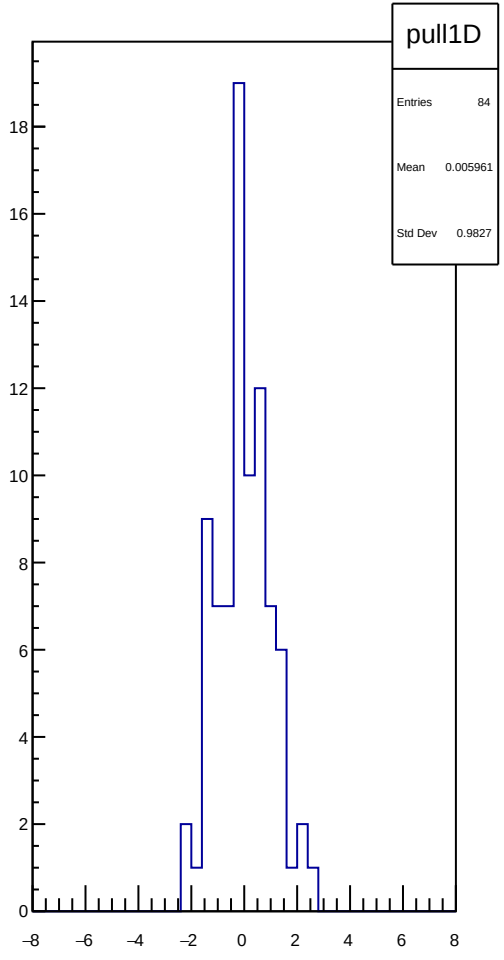

cor_asym_sam_37_dd_rms vs run
χ^2 / ndf 1.206e+04 / 83
p0 40.98 ± 0.03225
60
55
50
45
40

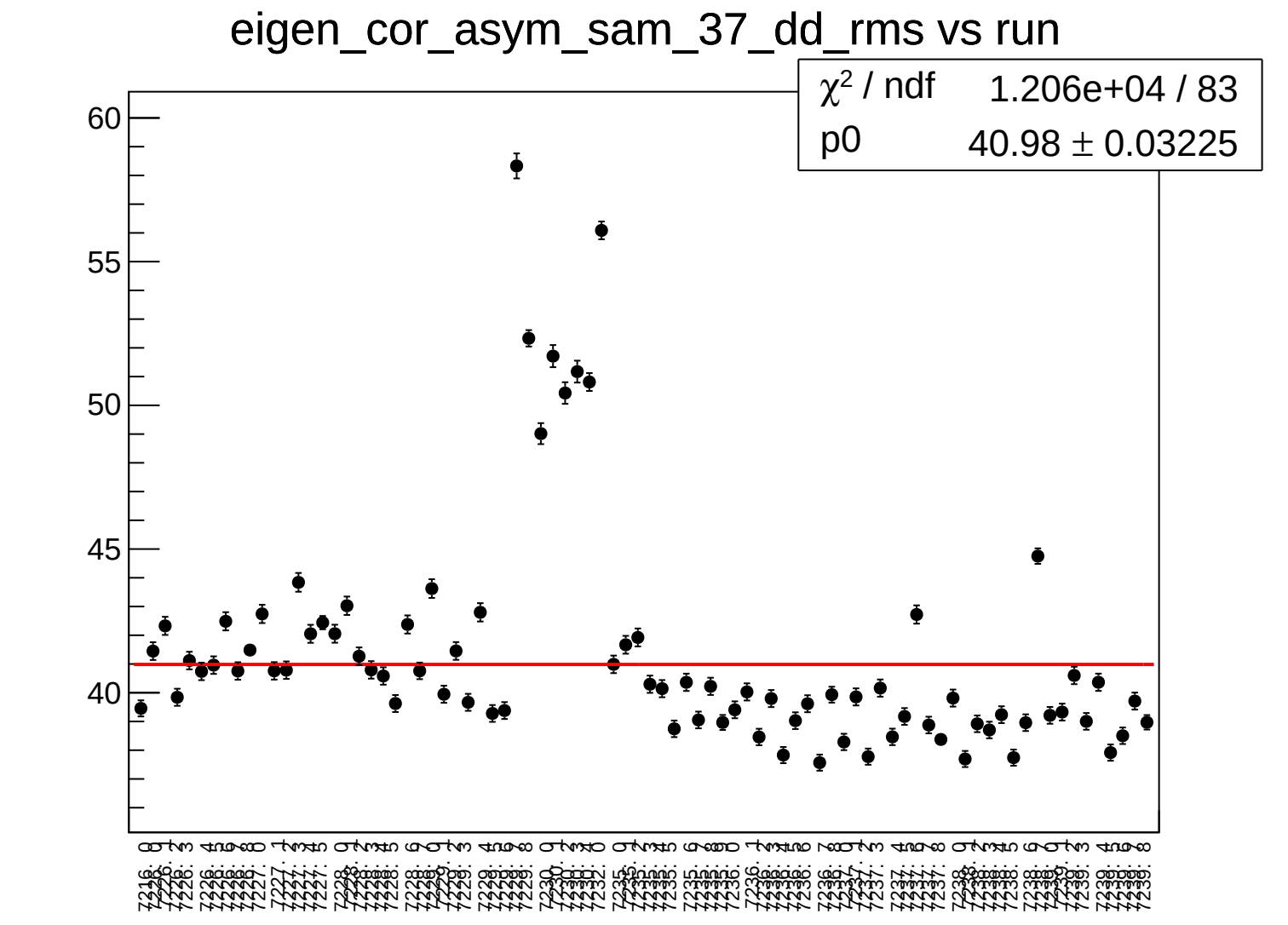

asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 80.03 / 83
p0 −336.9 ± 221.2
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 84
Mean −74.41
Std Dev 0
2
1
0
−1
−2

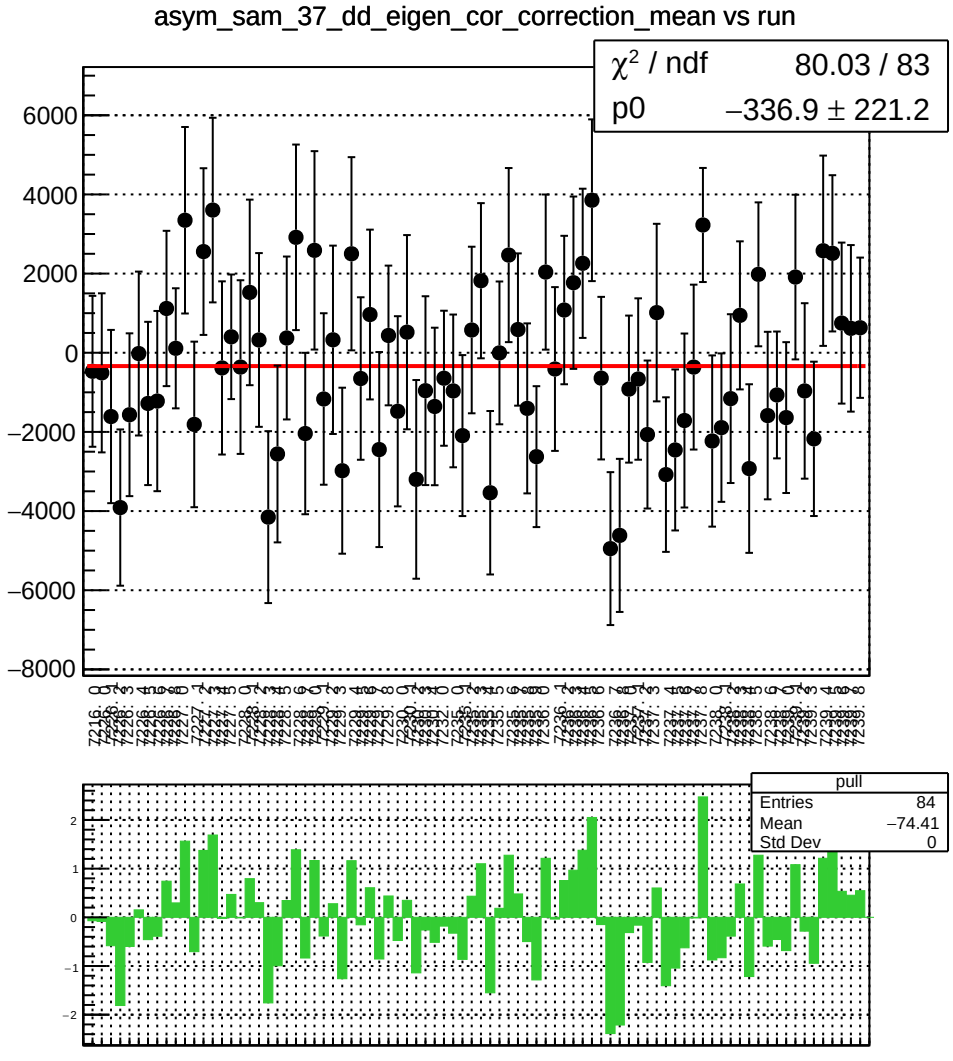

pull1D
Entries 84
Mean −0.003859
Std Dev 0.9761
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

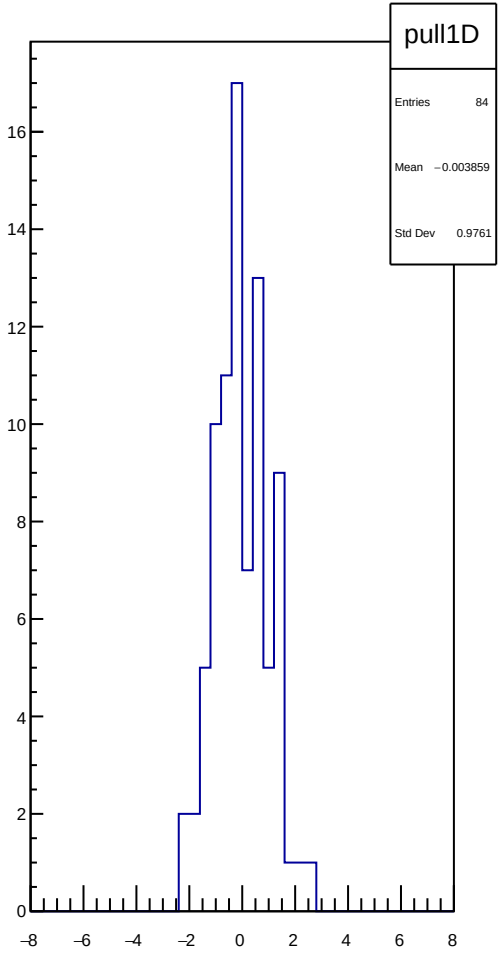

asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 1.014e+04 / 83
p0 198.9 ± 0.1564
240
230
220
210
200
190
180
170

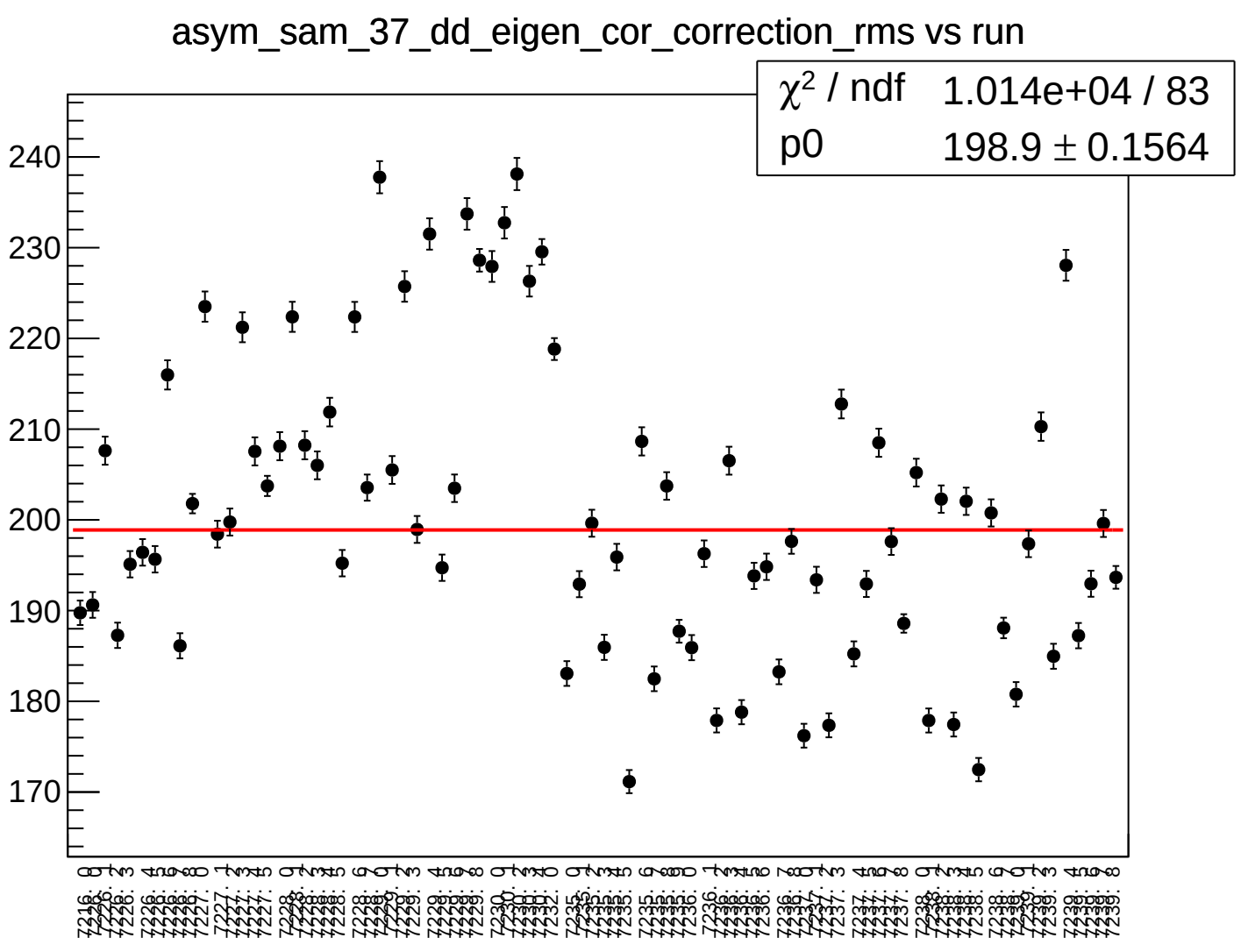

eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 81.12 / 83
p0 10.98 ± 45.62
1500
1000
500
0
−500
−1000
−1500
pull
Entries 84
Mean −669.3
Std Dev 0
2
1
0
−1
−2

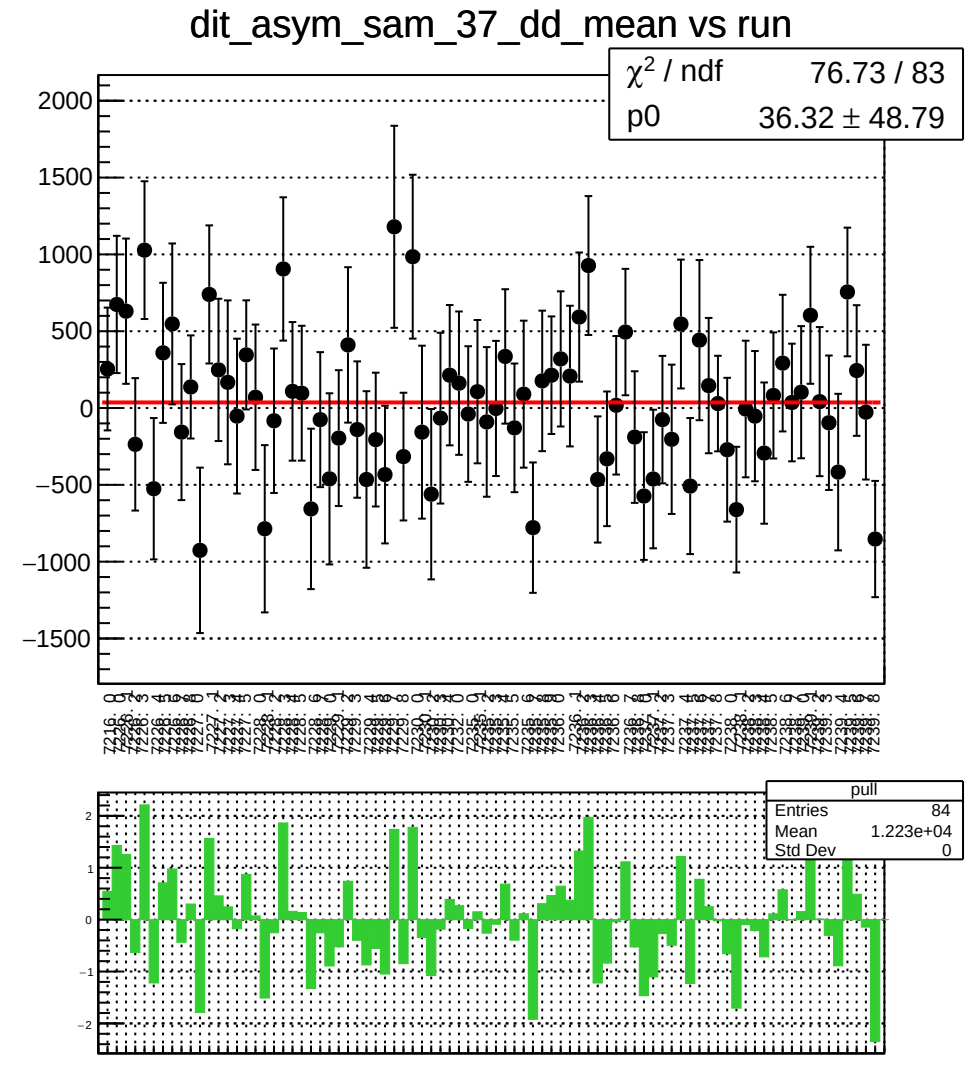

pull1D
Entries 84
Mean 0.005961
Std Dev 0.9827
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

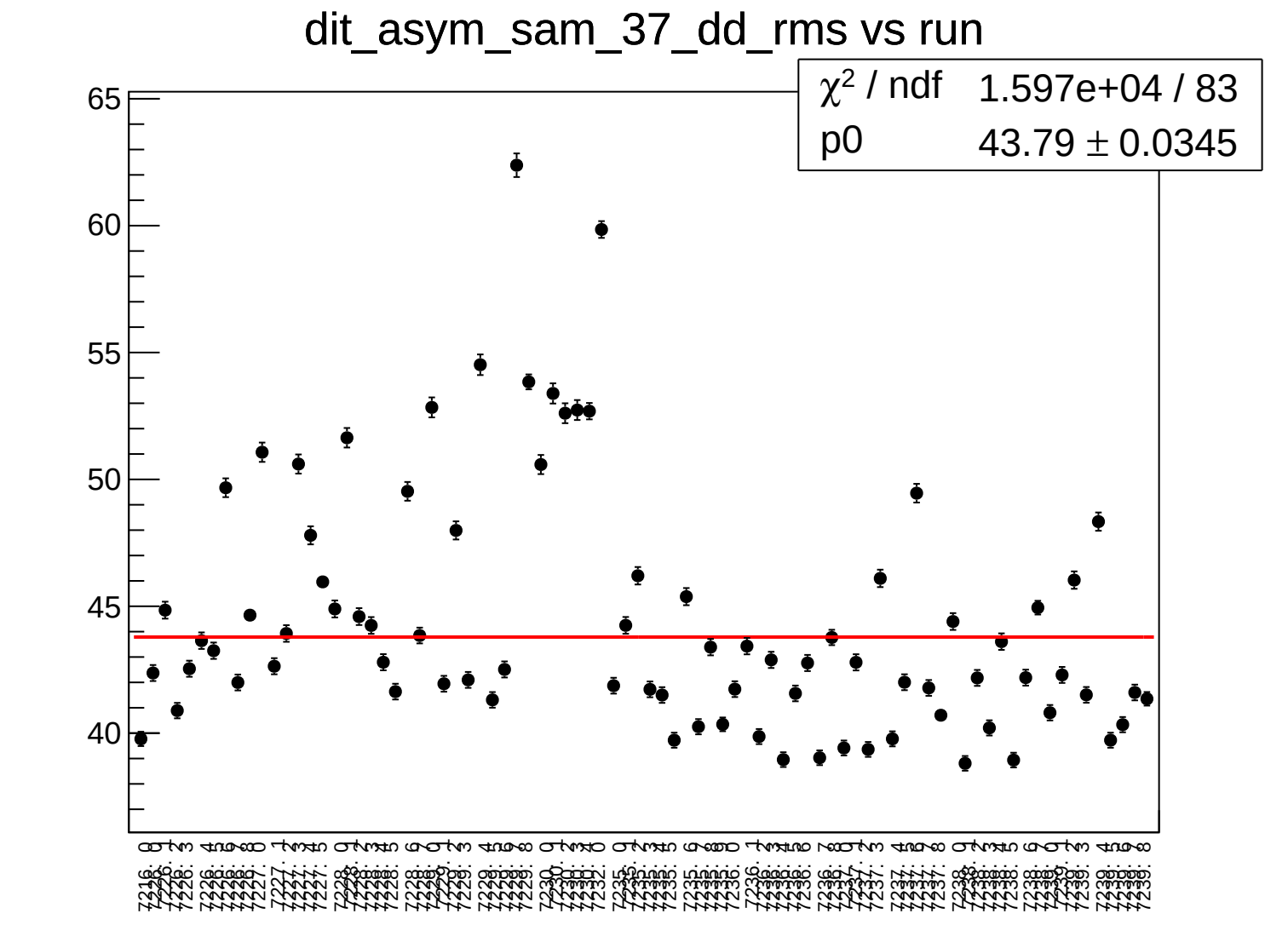

eigen_cor_asym_sam_37_dd_rms vs run
χ² / ndf 1.206e+04 / 83
p0 40.98 ± 0.03225
60
55
50
45
40

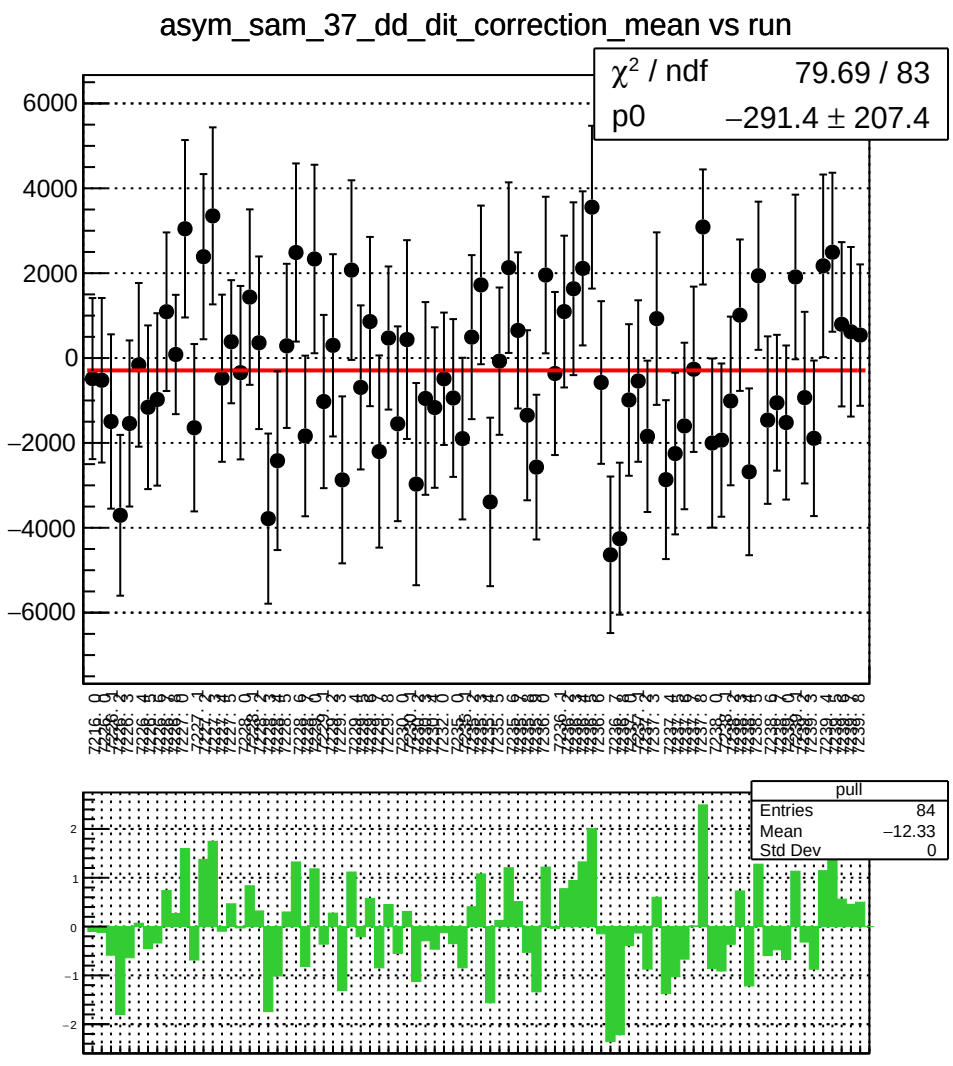

asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 80.03 / 83
p0 −336.9 ± 221.2
pull
Entries 84
Mean −74.41
Std Dev 0

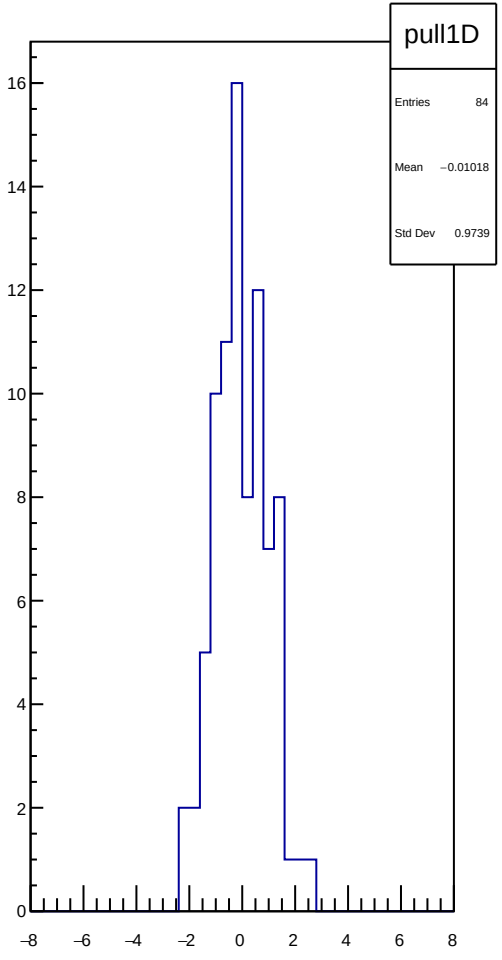

pull1D
Entries 84
Mean −0.003859
Std Dev 0.9761

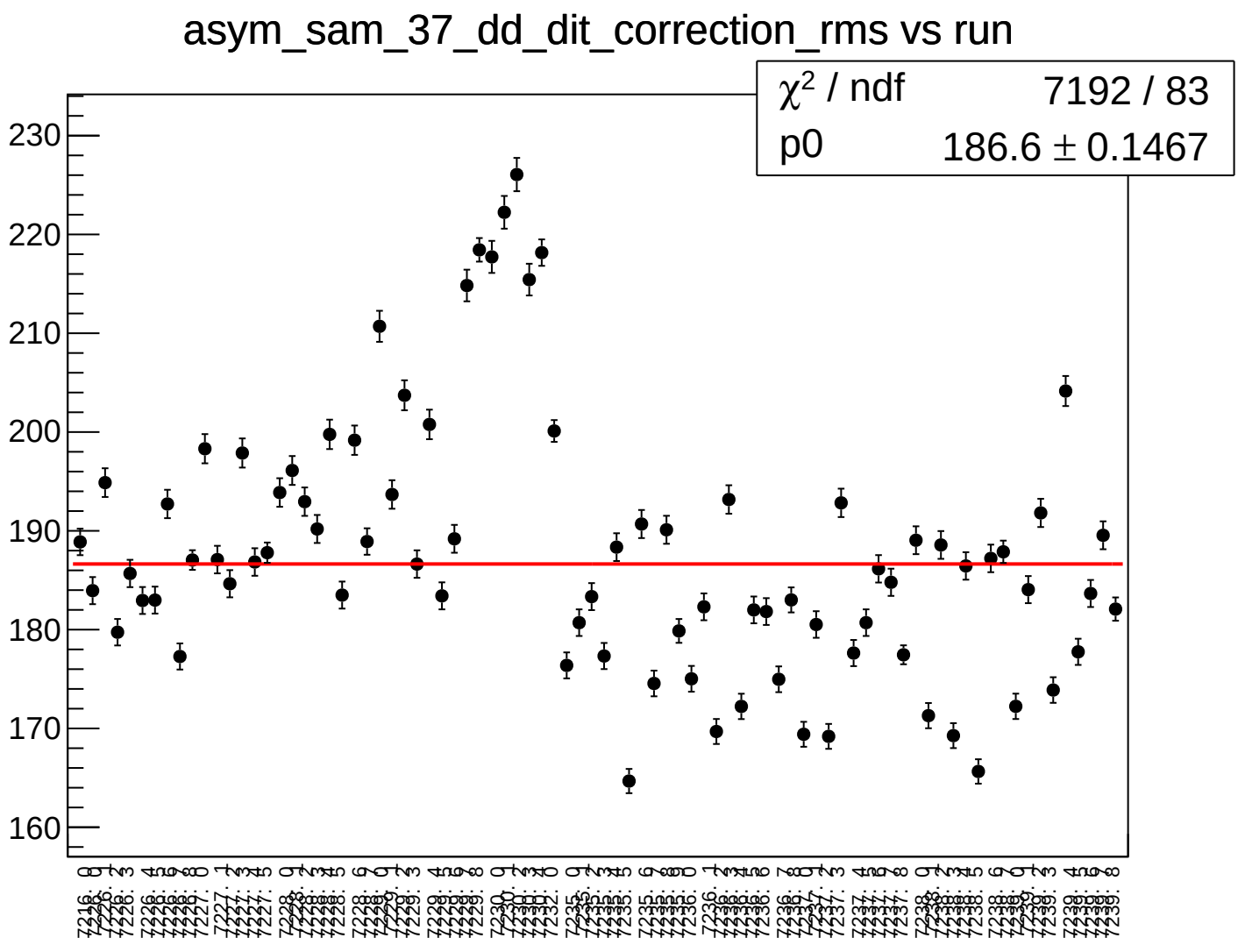

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.014e+04 / 83
p0 198.9 ± 0.1564
240
230
220
210
200
190
180
170

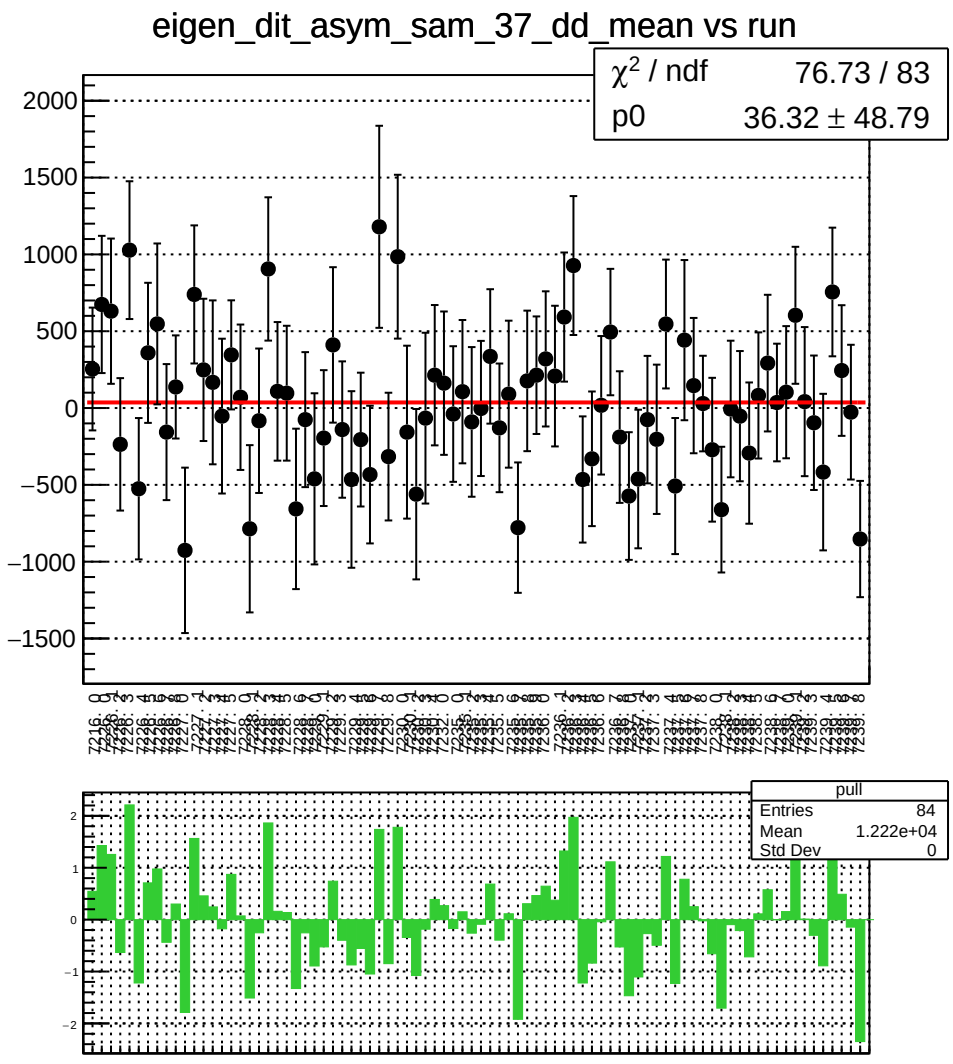

dit_asym_sam_37_dd_mean vs run
χ^2 / ndf 76.73 / 83
p0 36.32 ± 48.79
pull
Entries 84
Mean 1.223e+04
Std Dev 0
pull1D
Entries 84
Mean −0.0002653
Std Dev 0.9558

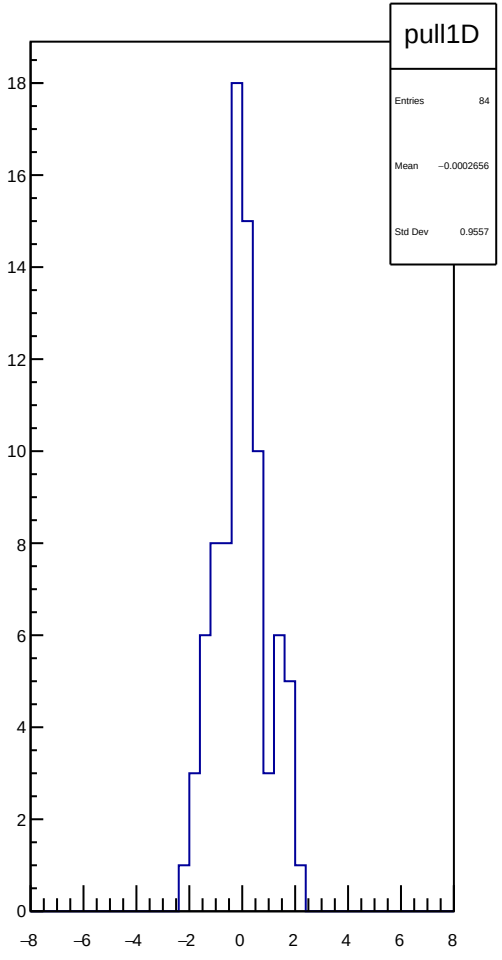

dit_asym_sam_37_dd_rms vs run
χ^2 / ndf 1.597e+04 / 83
p0 43.79 ± 0.0345
65
60
55
50
45
40

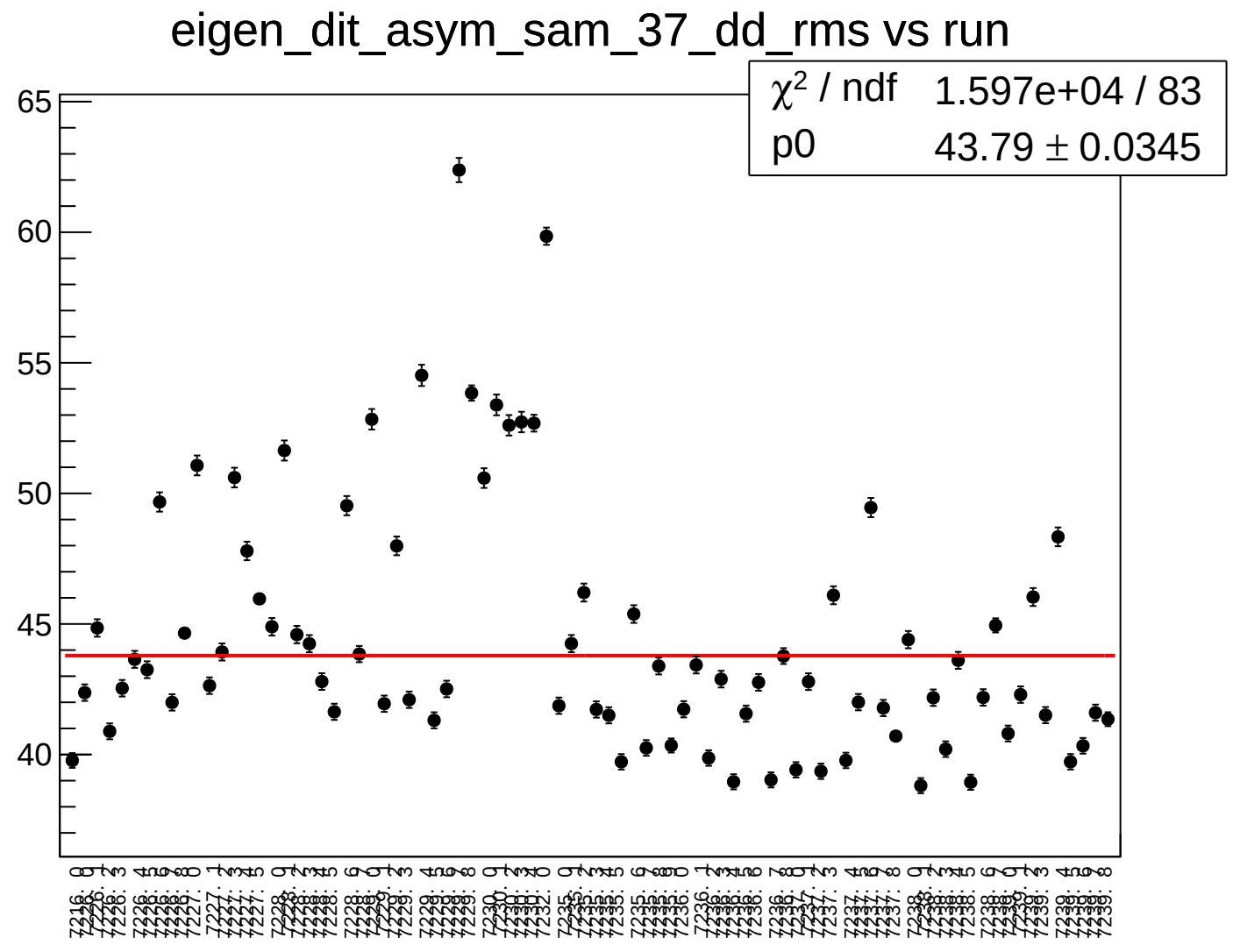

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 79.69 / 83
p0 −291.4 ± 207.4
pull
Entries 84
Mean −12.33
Std Dev 0

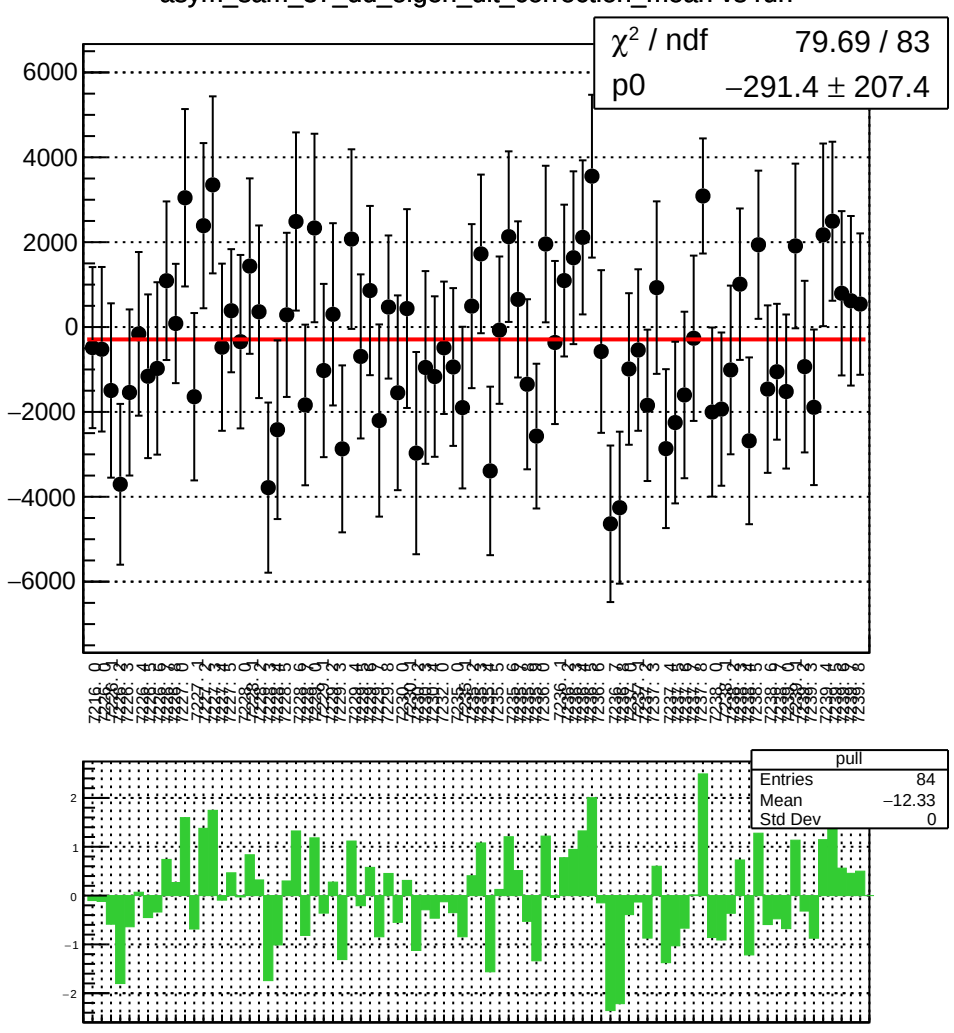

pull1D
Entries 84
Mean −0.01018
Std Dev 0.9739

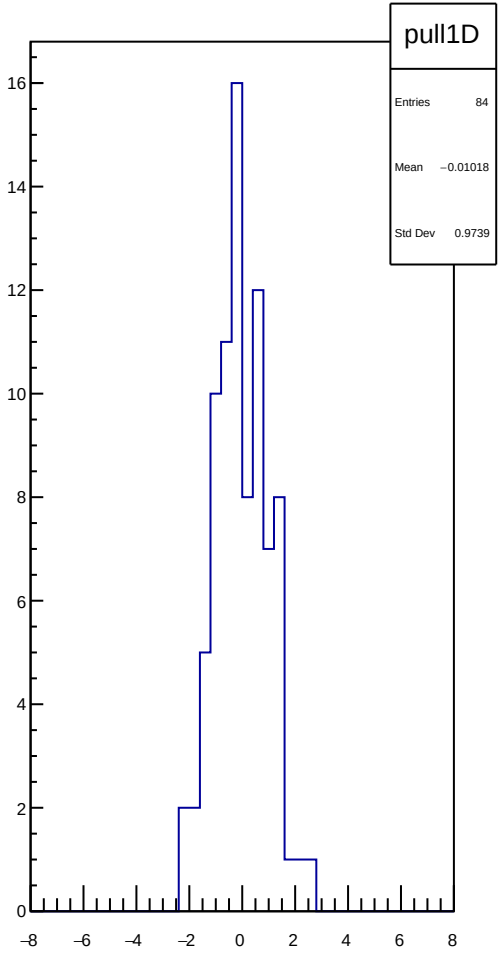

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 7192 / 83
p0 186.6 ± 0.1467
230
220
210
200
190
180
170
160

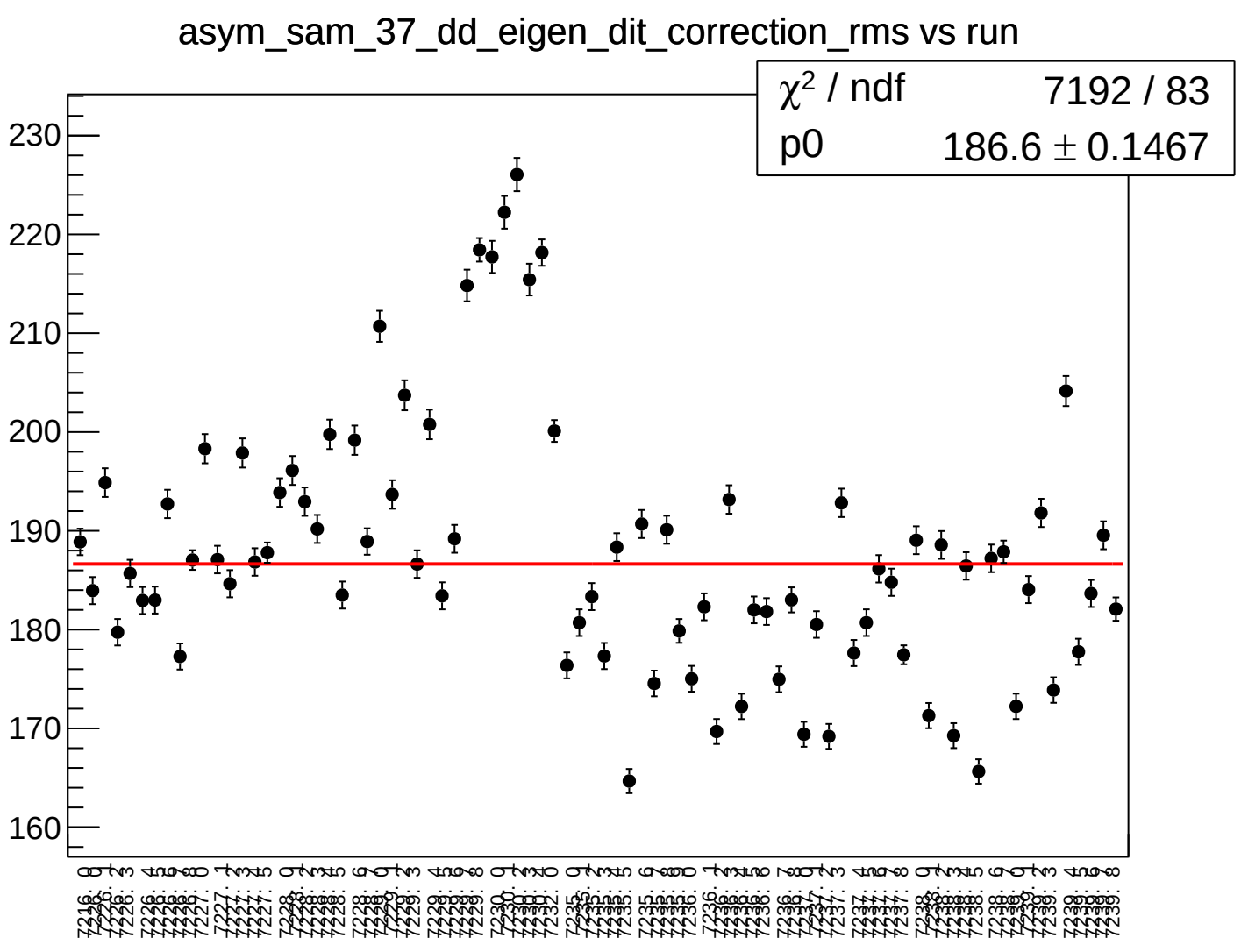

eigen_dit_asym_sam_37_dd_mean vs run
χ² / ndf 76.73 / 83
p0 36.32 ± 48.79
pull
Entries 84
Mean 1.222e+04
Std Dev 0

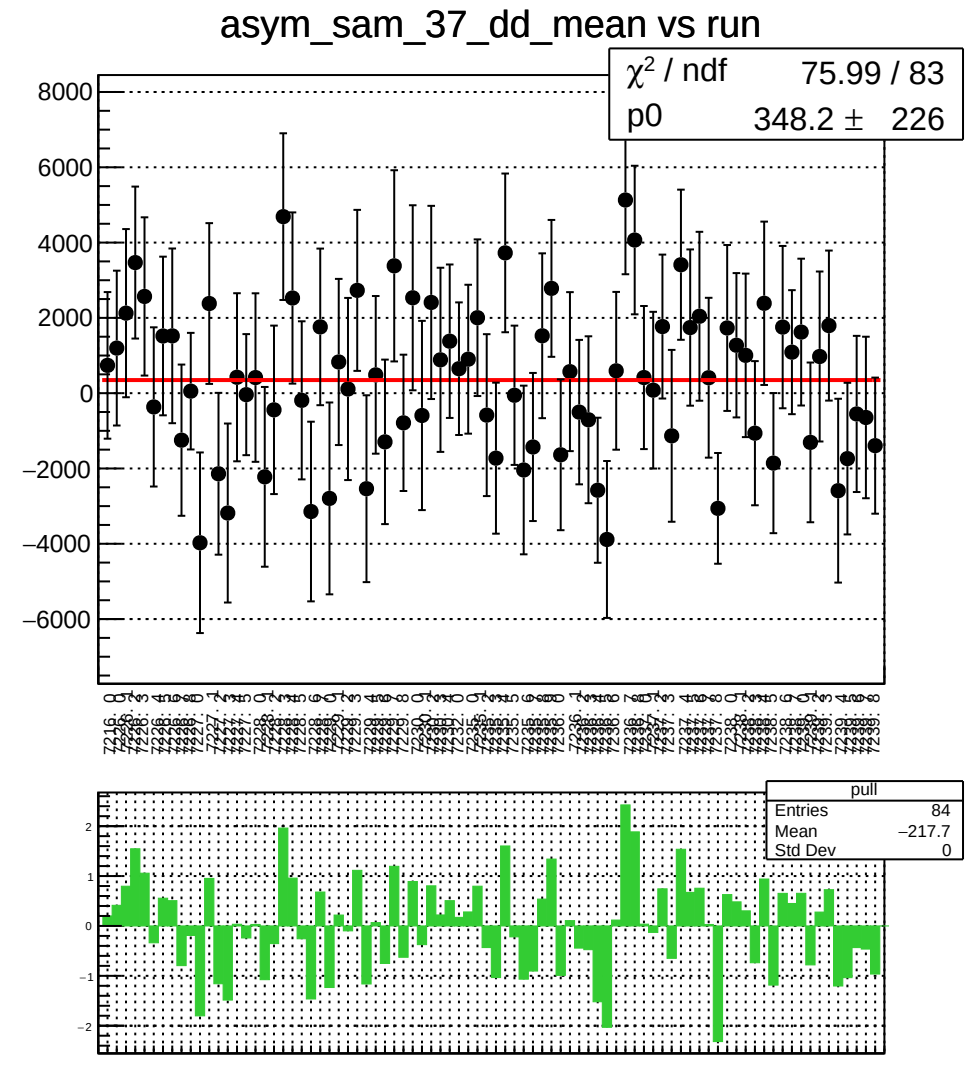

pull1D
Entries 84
Mean −0.0002656
Std Dev 0.9557

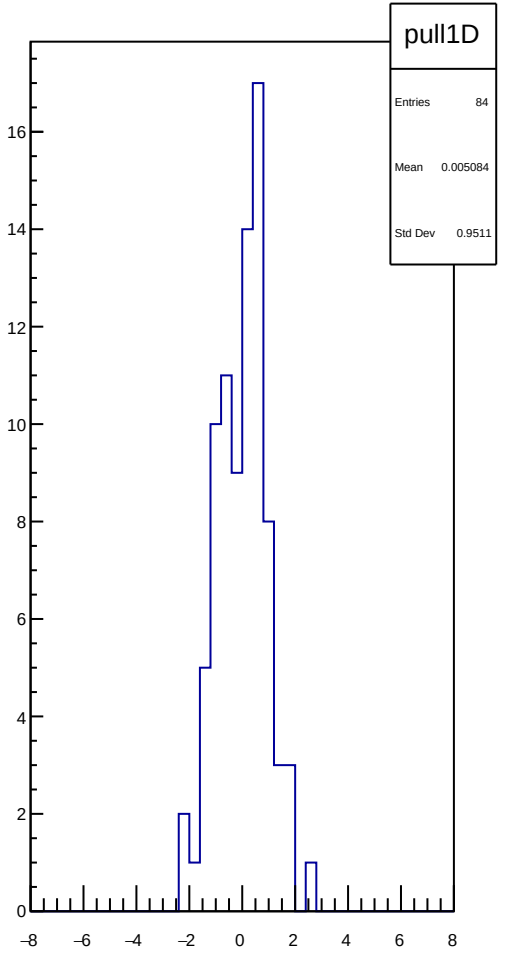

eigen_dit_asym_sam_37_dd_rms vs run
χ² / ndf 1.597e+04 / 83
p0 43.79 ± 0.0345
65
60
55
50
45
40

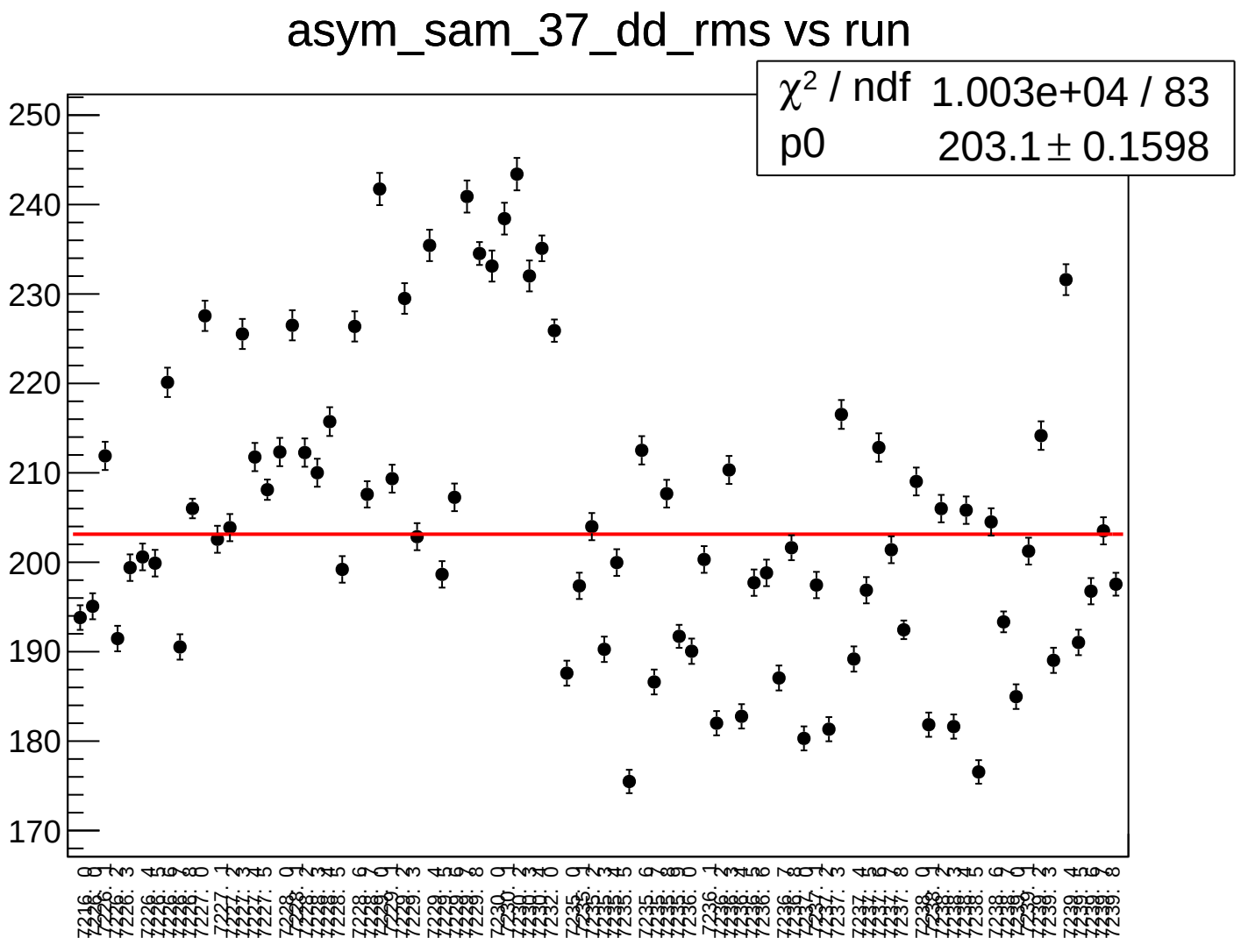

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 79.69 / 83
p0 −291.4 ± 207.4
pull
Entries 84
Mean −12.33
Std Dev 0

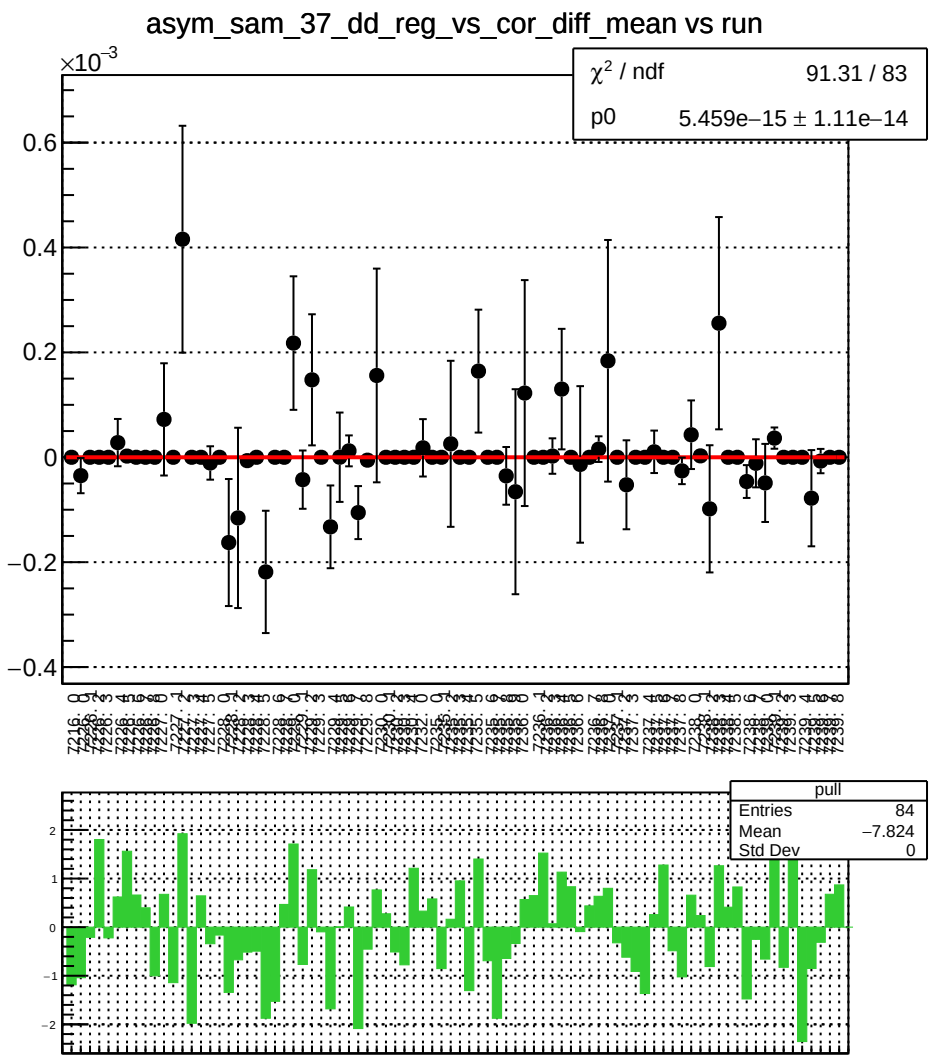

pull1D
Entries 84
Mean −0.01018
Std Dev 0.9739

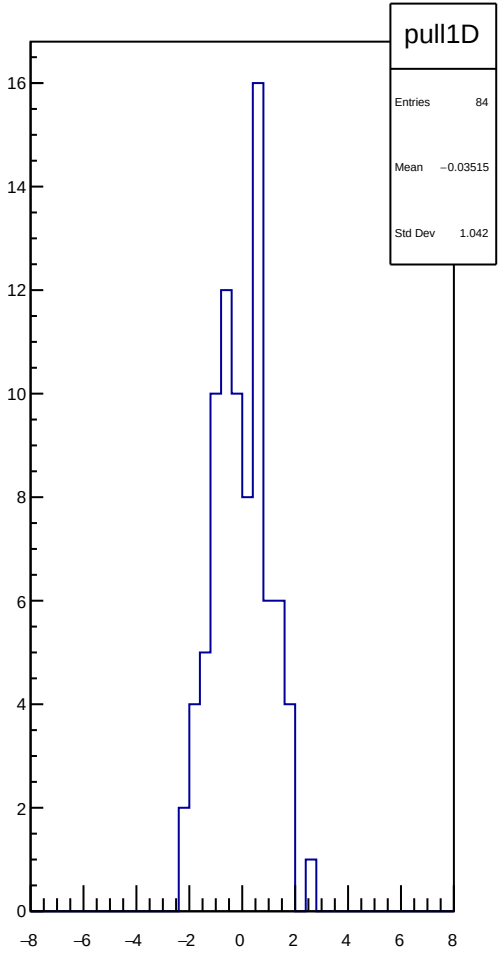

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 7192 / 83
p0 186.6 ± 0.1467
230
220
210
200
190
180
170
160

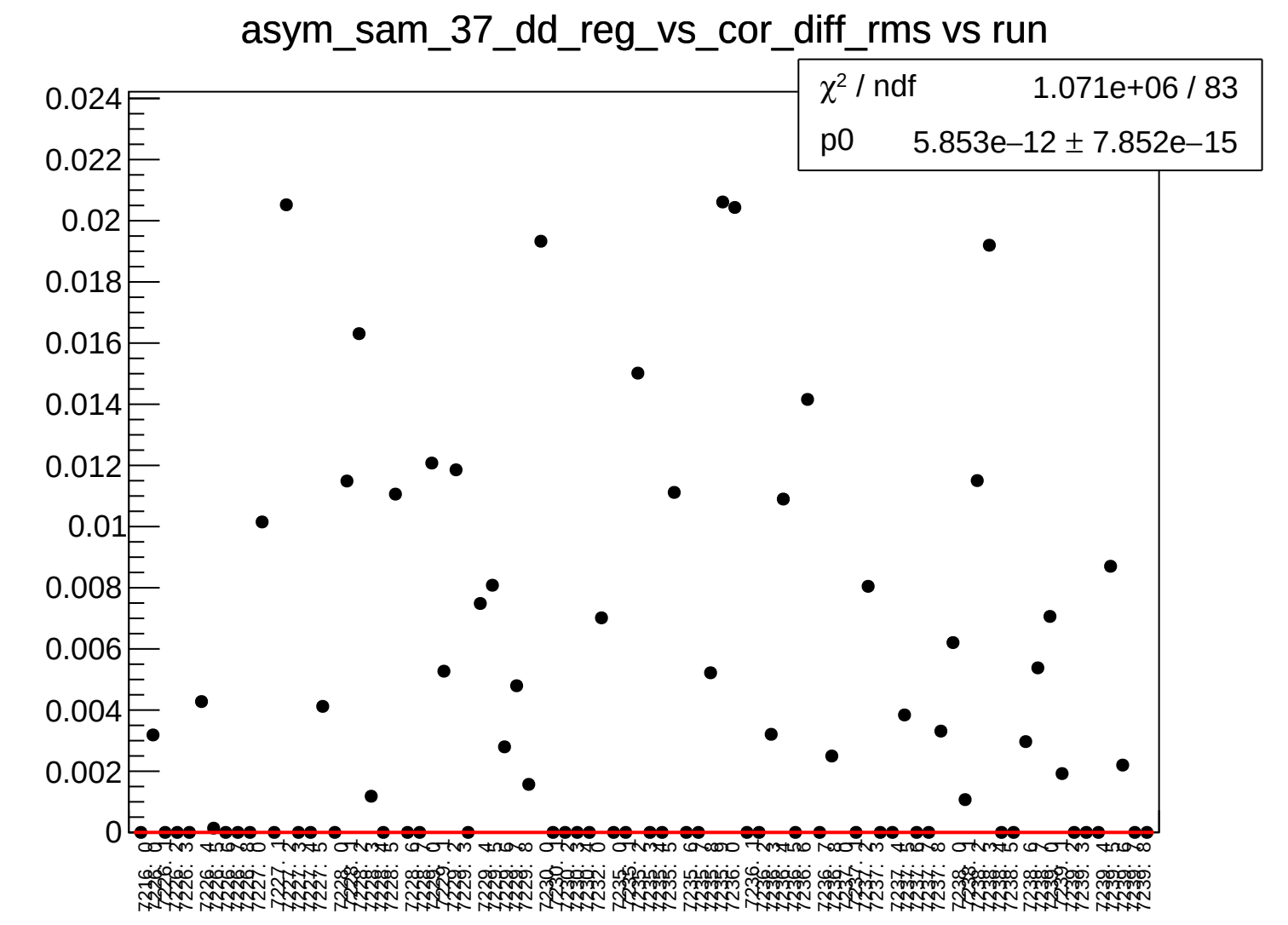

asym_sam_37_dd_mean vs run
χ² / ndf 75.99 / 83
p0 348.2 ± 226
pull
Entries 84
Mean −217.7
Std Dev 0

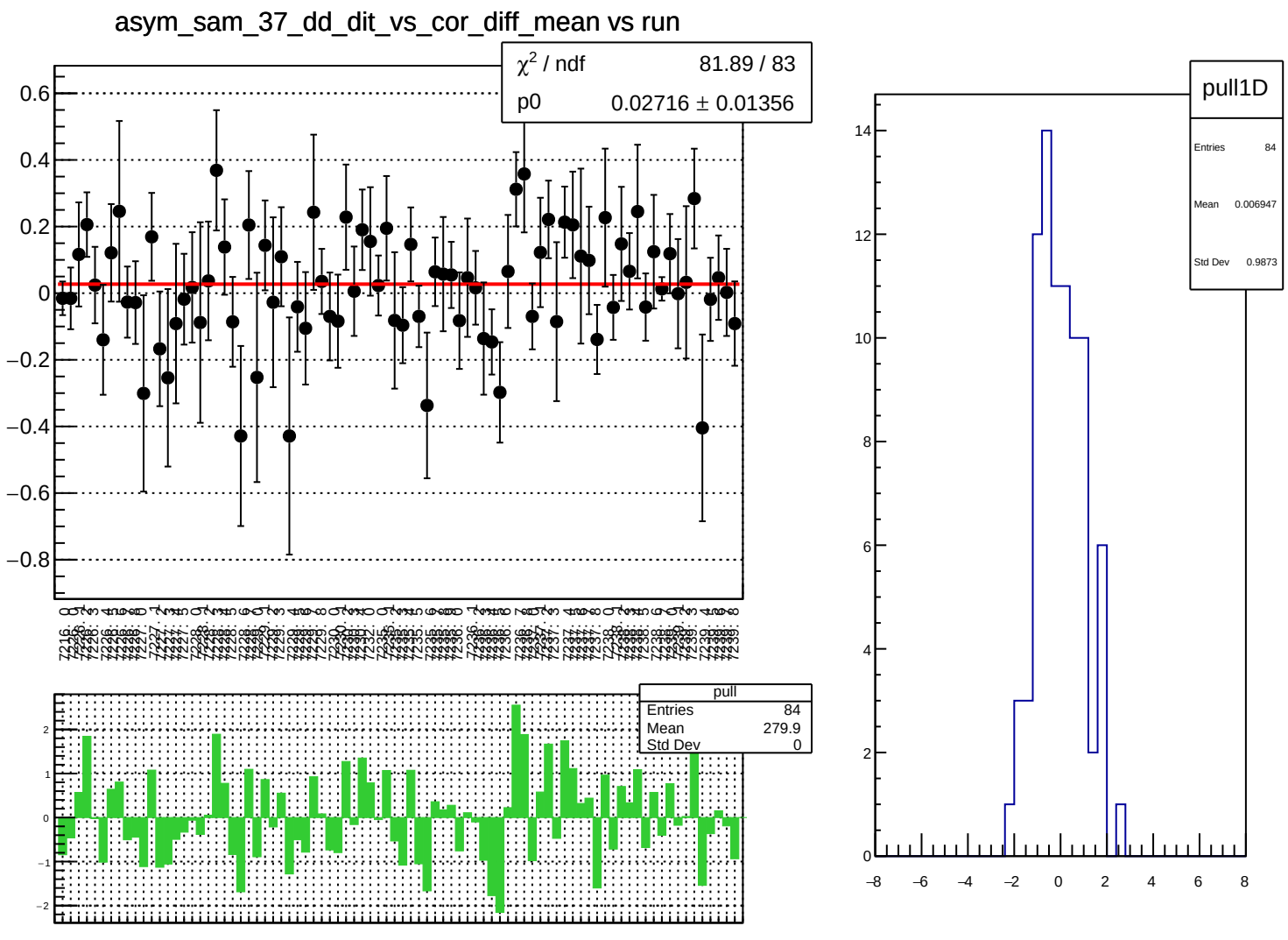

pull1D
Entries 84
Mean 0.005084
Std Dev 0.9511

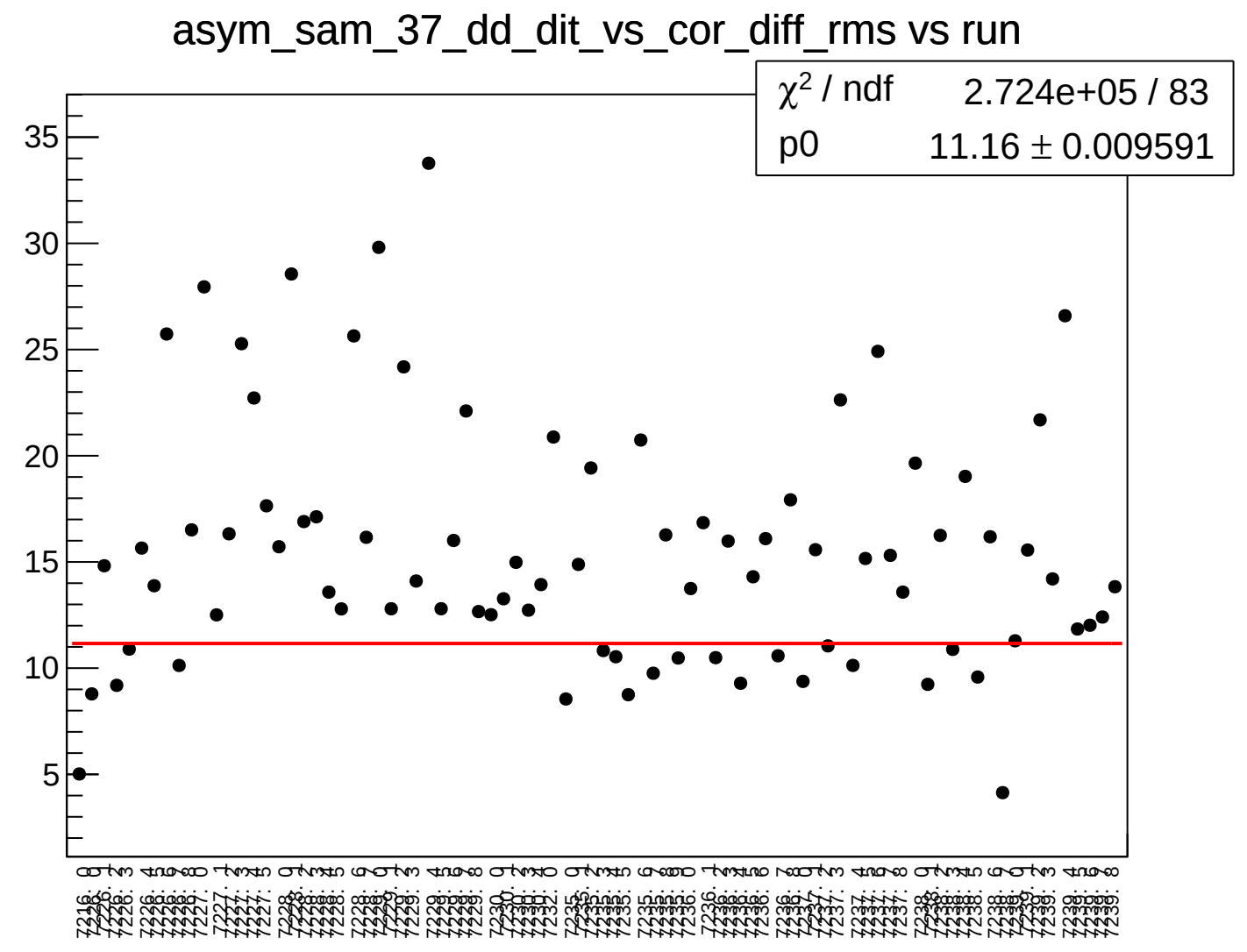

asym_sam_37_dd_rms vs run
χ² / ndf 1.003e+04 / 83
p0 203.1 ± 0.1598
250
240
230
220
210
200
190
180
170

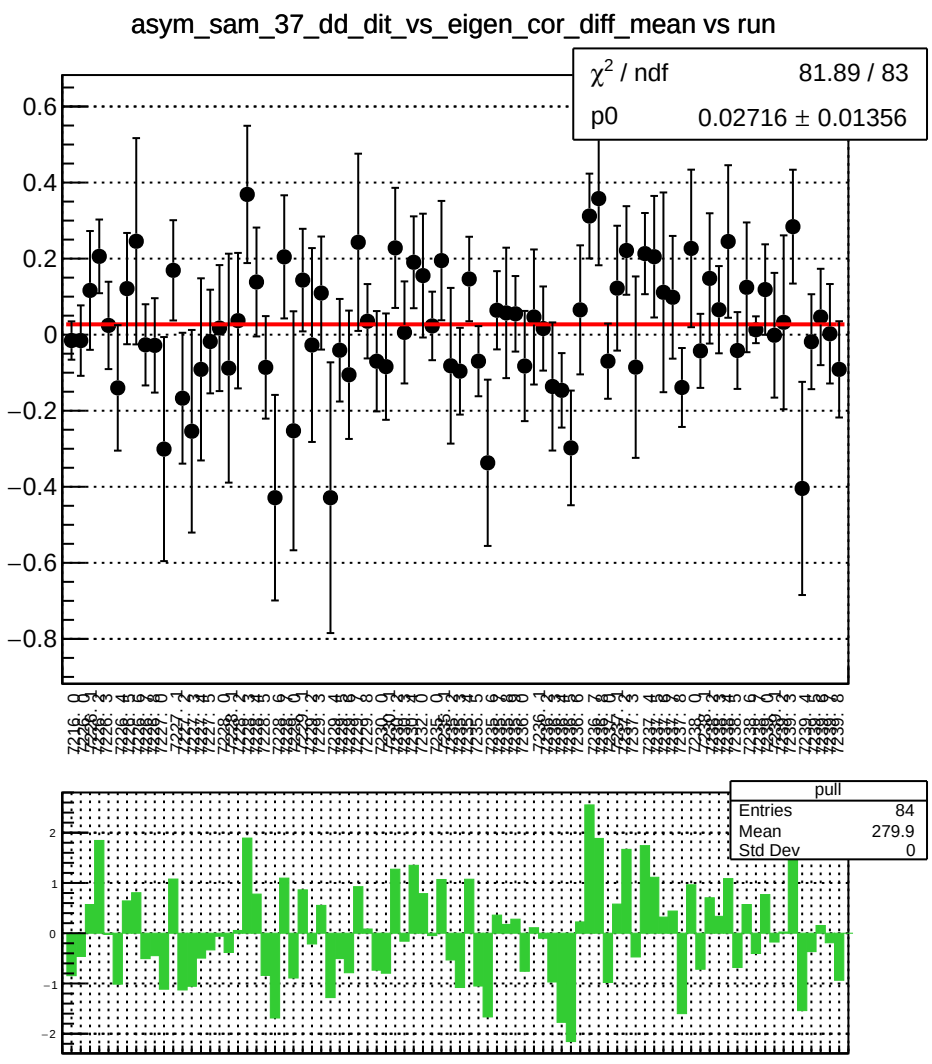

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 91.31 / 83
p0 5.459e−15 ± 1.11e−14
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 84
Mean −7.824
Std Dev 0
2
1
0
−1
−2

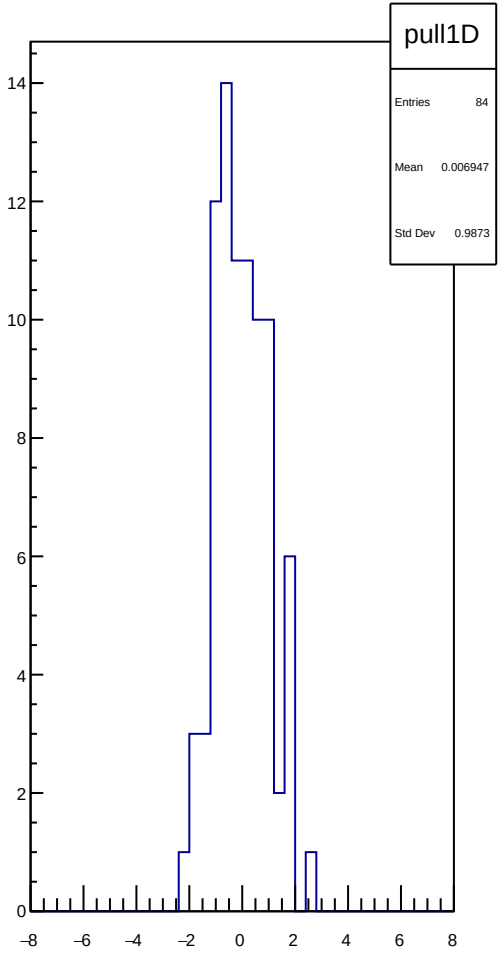

pull1D
Entries 84
Mean −0.03515
Std Dev 1.042
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

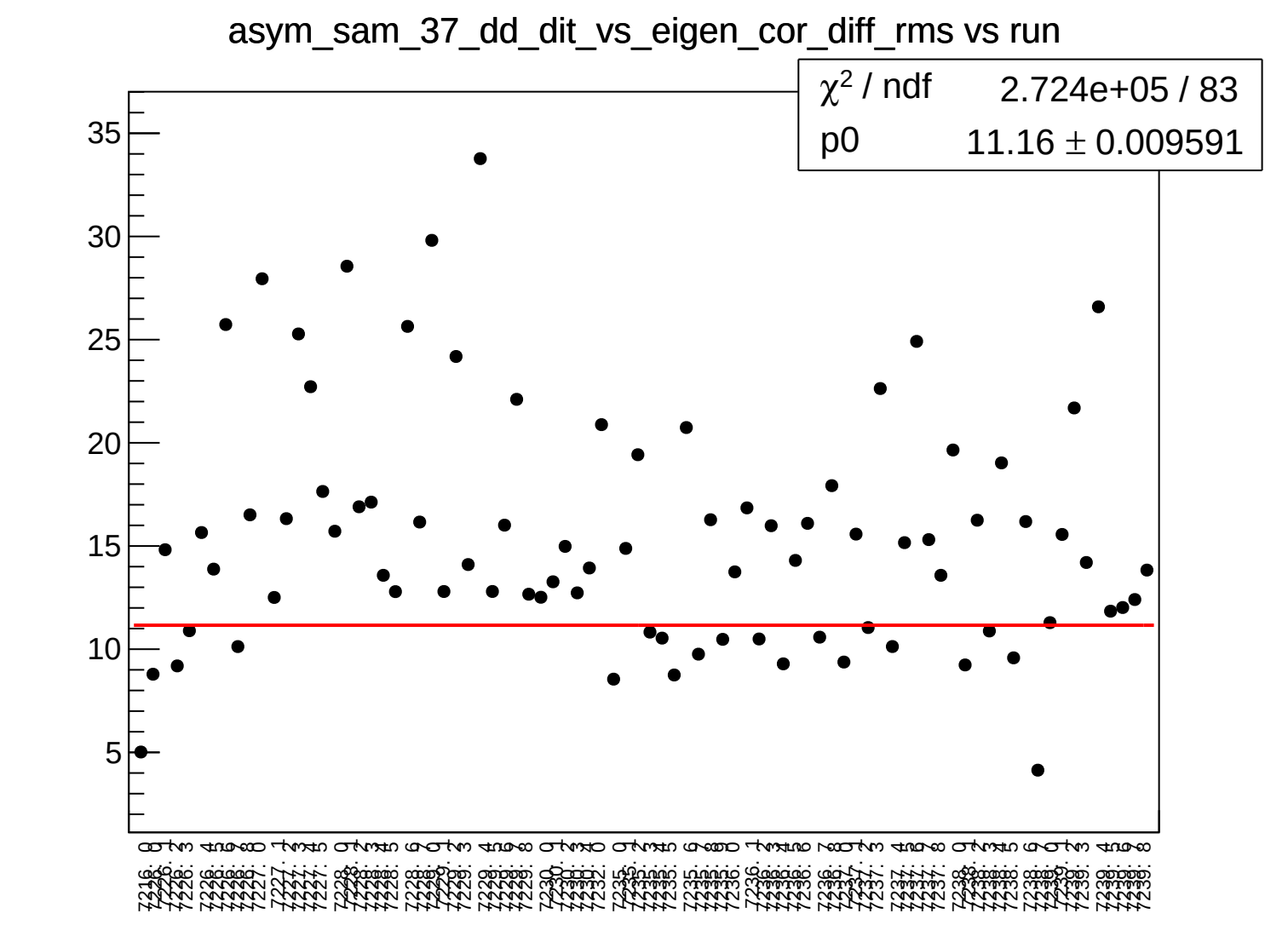

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.071e+06 / 83
p0 5.853e−12 ± 7.852e−15
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0

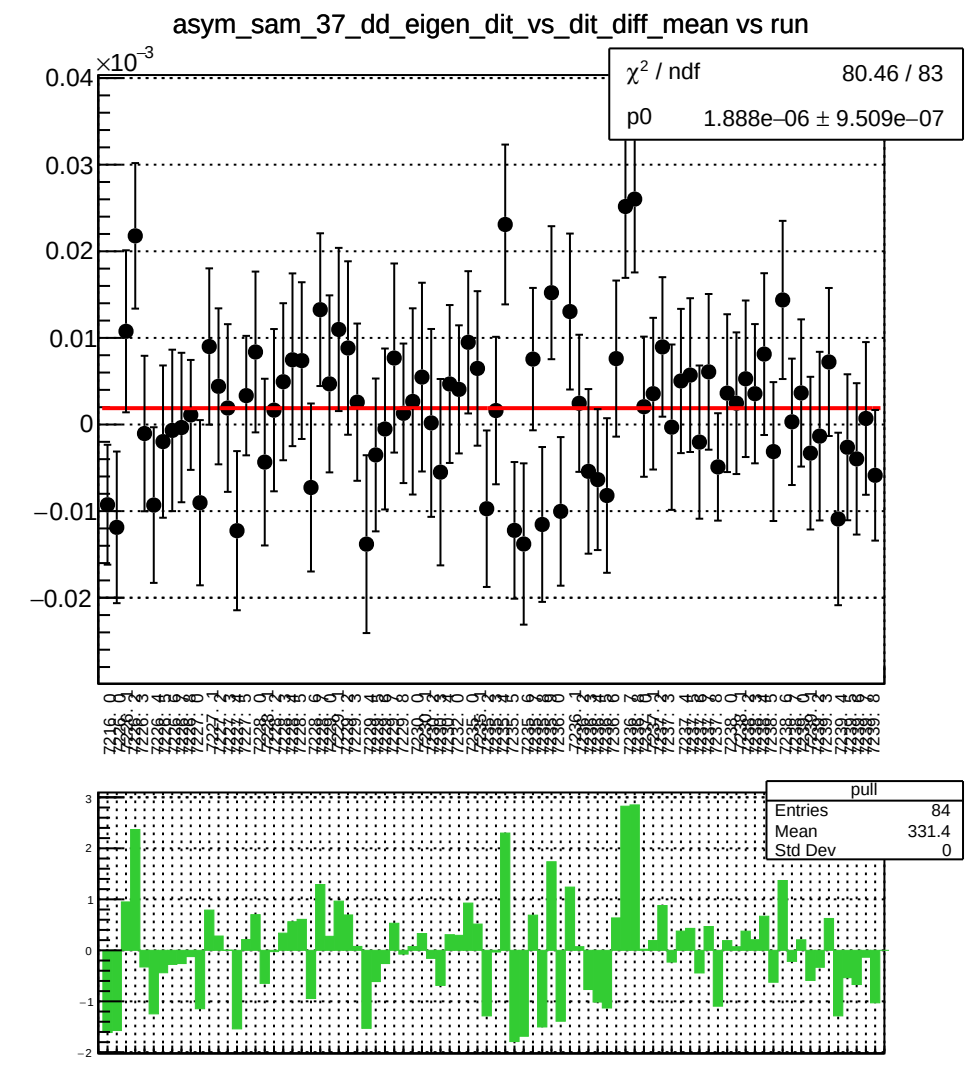

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 81.89 / 83
p0 0.02716 ± 0.01356
pull
Entries 84
Mean 279.9
Std Dev 0
pull1D
Entries 84
Mean 0.006947
Std Dev 0.9873

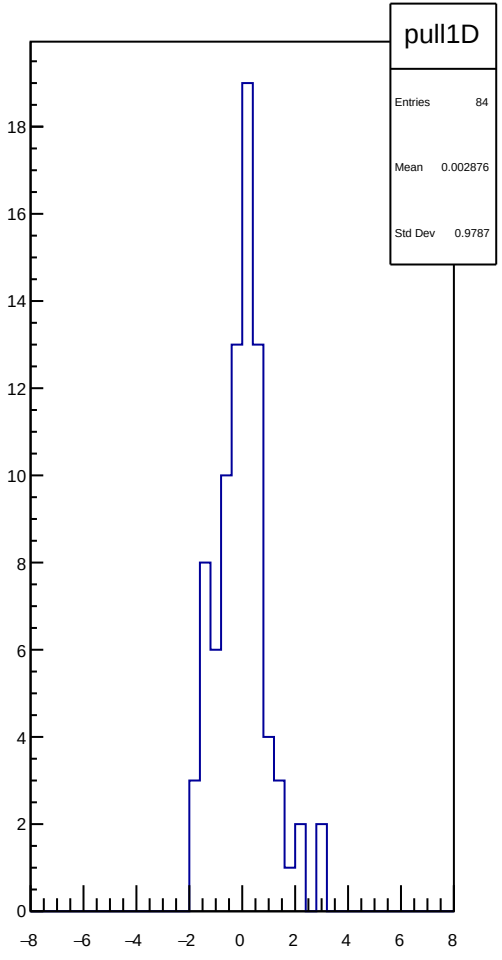

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.724e+05 / 83
p0 11.16 ± 0.009591
35
30
25
20
15
10
5

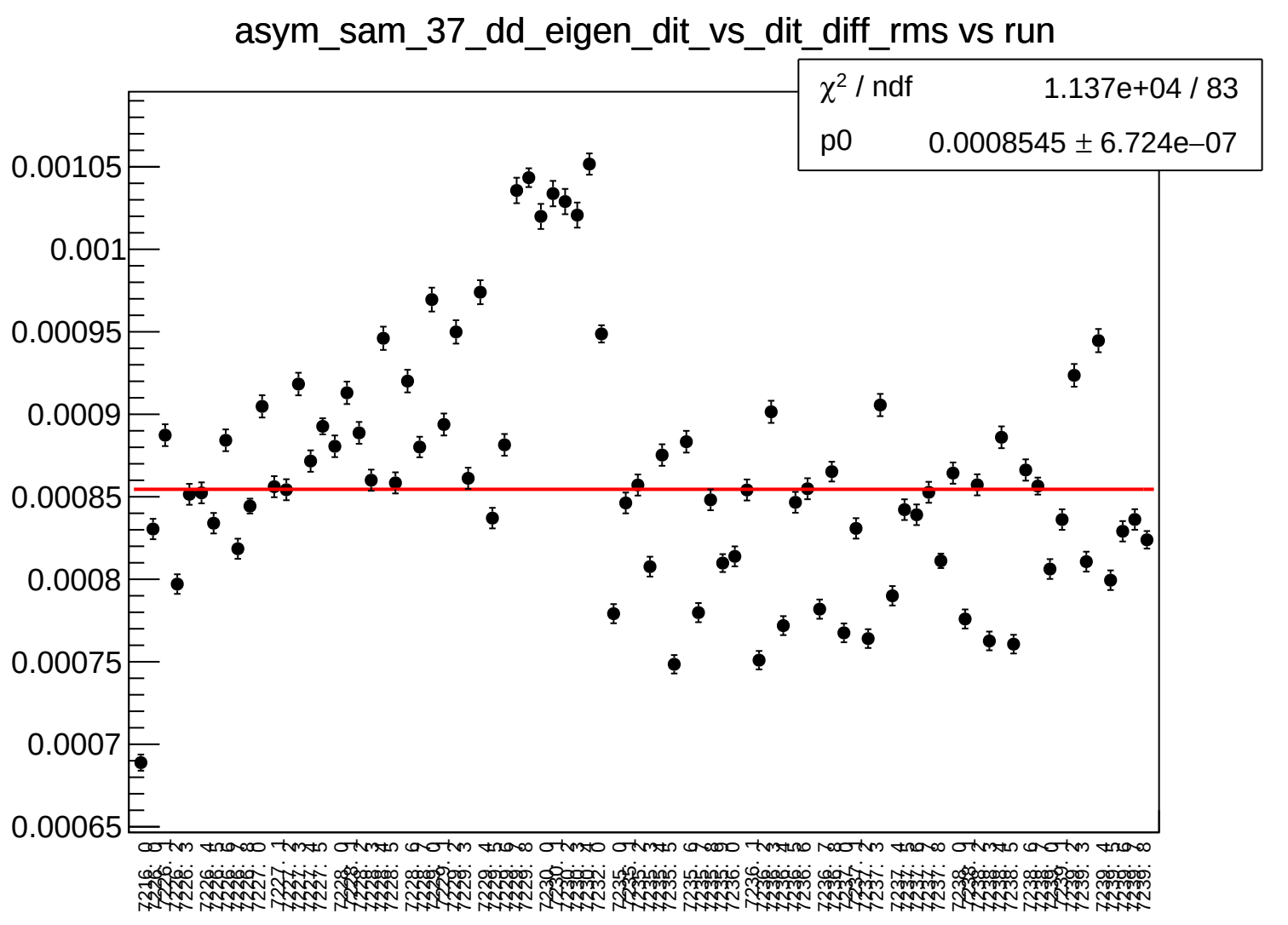

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.89 / 83
p0 0.02716 ± 0.01356
pull
Entries 84
Mean 279.9
Std Dev 0

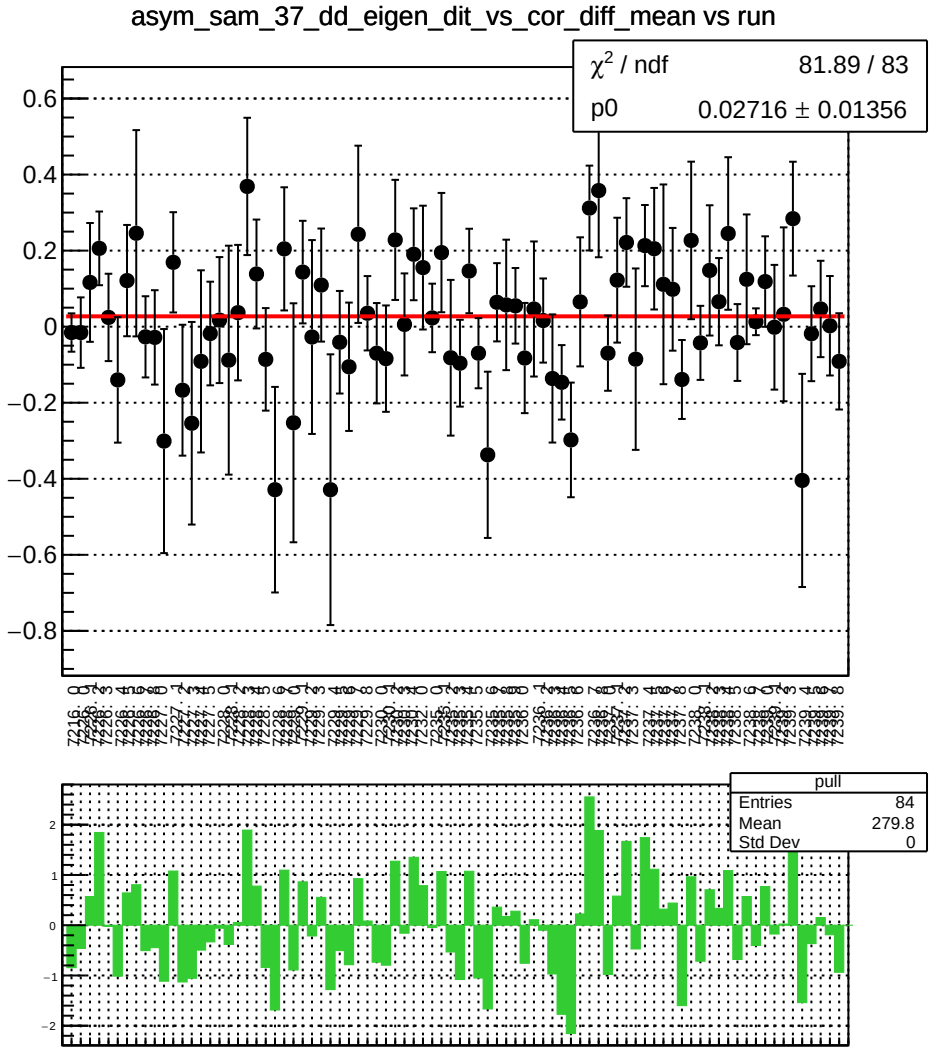

pull1D
Entries 84
Mean 0.006947
Std Dev 0.9873

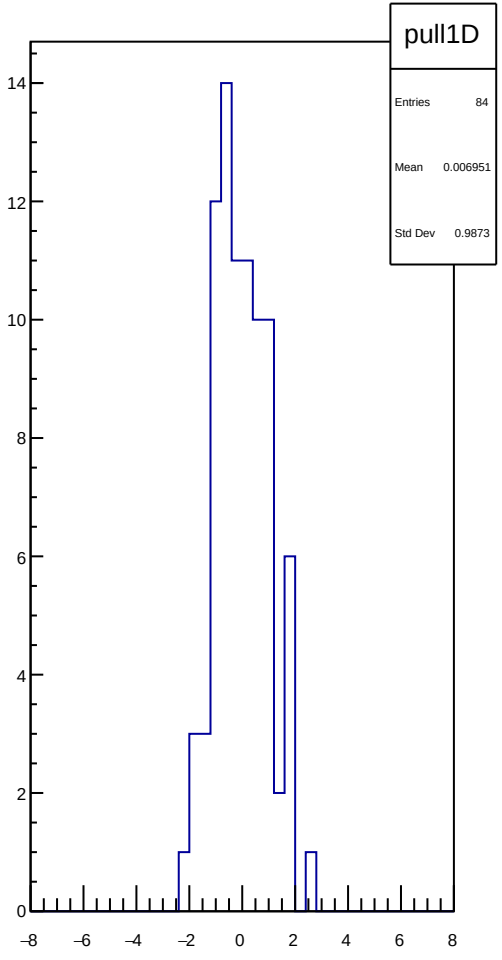

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.724e+05 / 83
p0 11.16 ± 0.009591
35
30
25
20
15
10
5

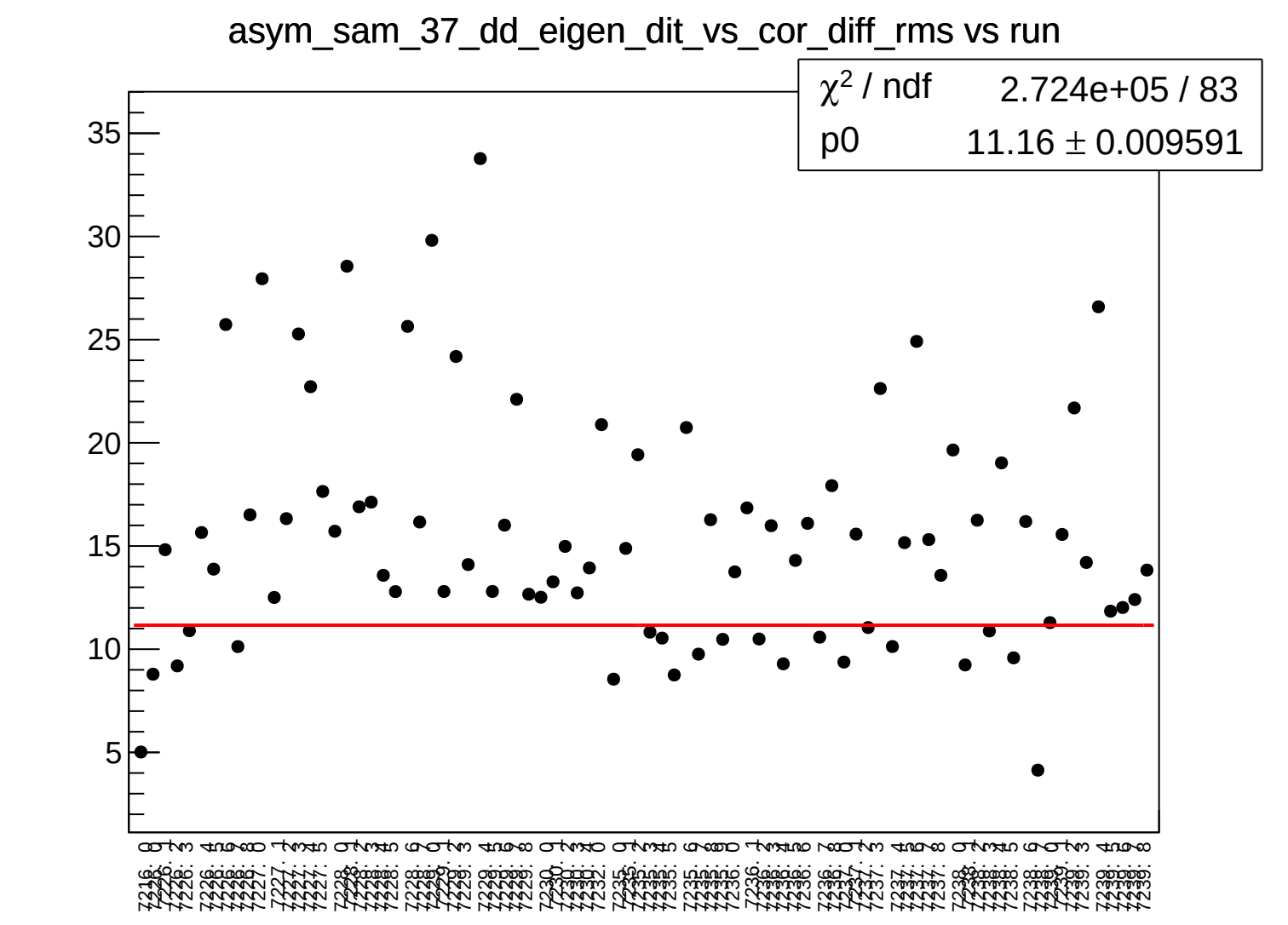

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.46 / 83
p0 1.888e−06 ± 9.509e−07
pull
Entries 84
Mean 331.4
Std Dev 0

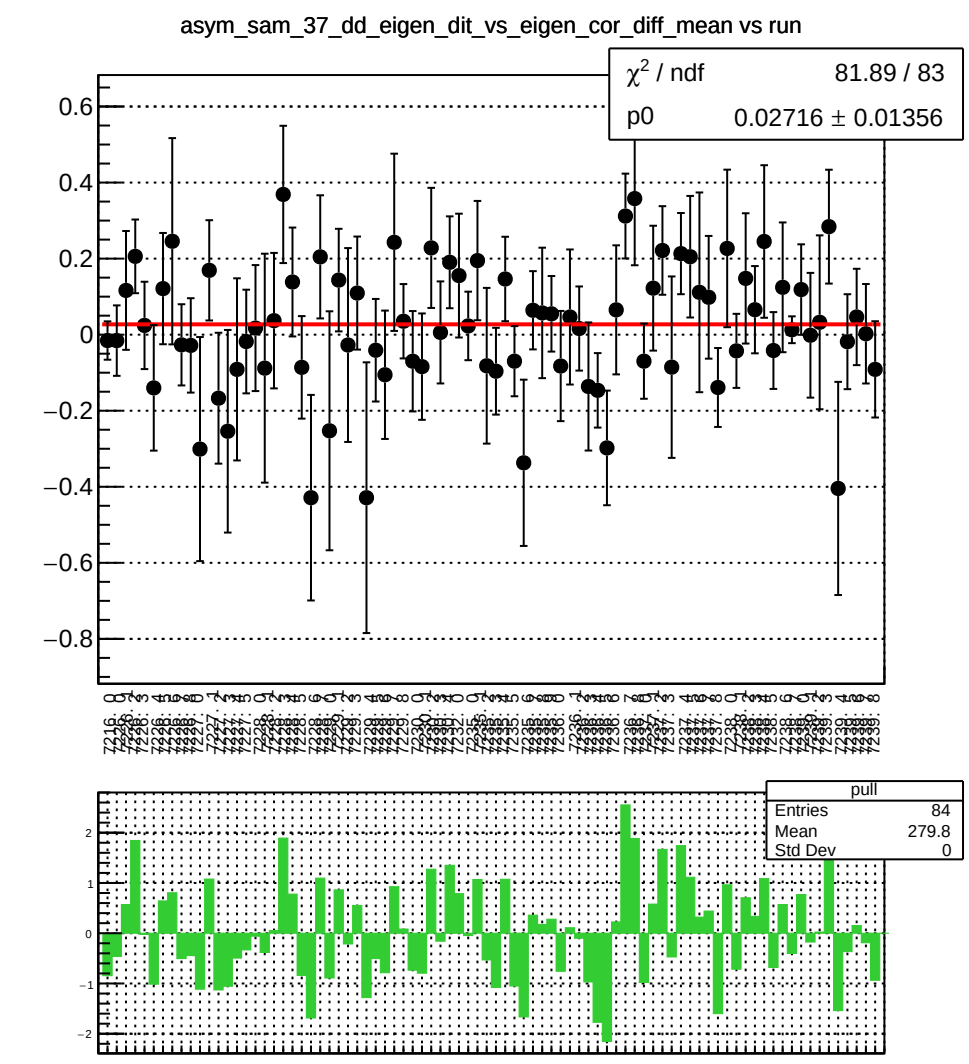

pull1D
Entries 84
Mean 0.002876
Std Dev 0.9787

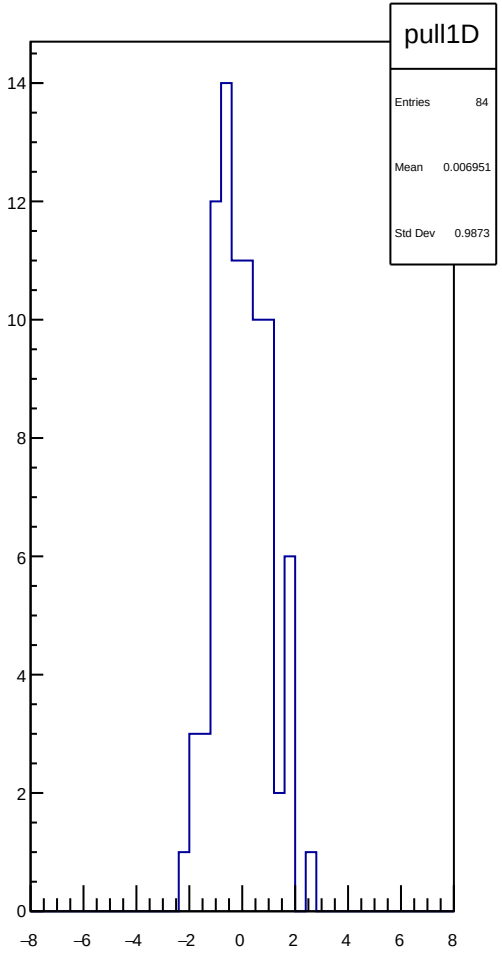

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.137e+04 / 83
p0 0.0008545 ± 6.724e−07
0.00105
0.001
0.00095
0.0009
0.00085
0.0008
0.00075
0.0007
0.00065

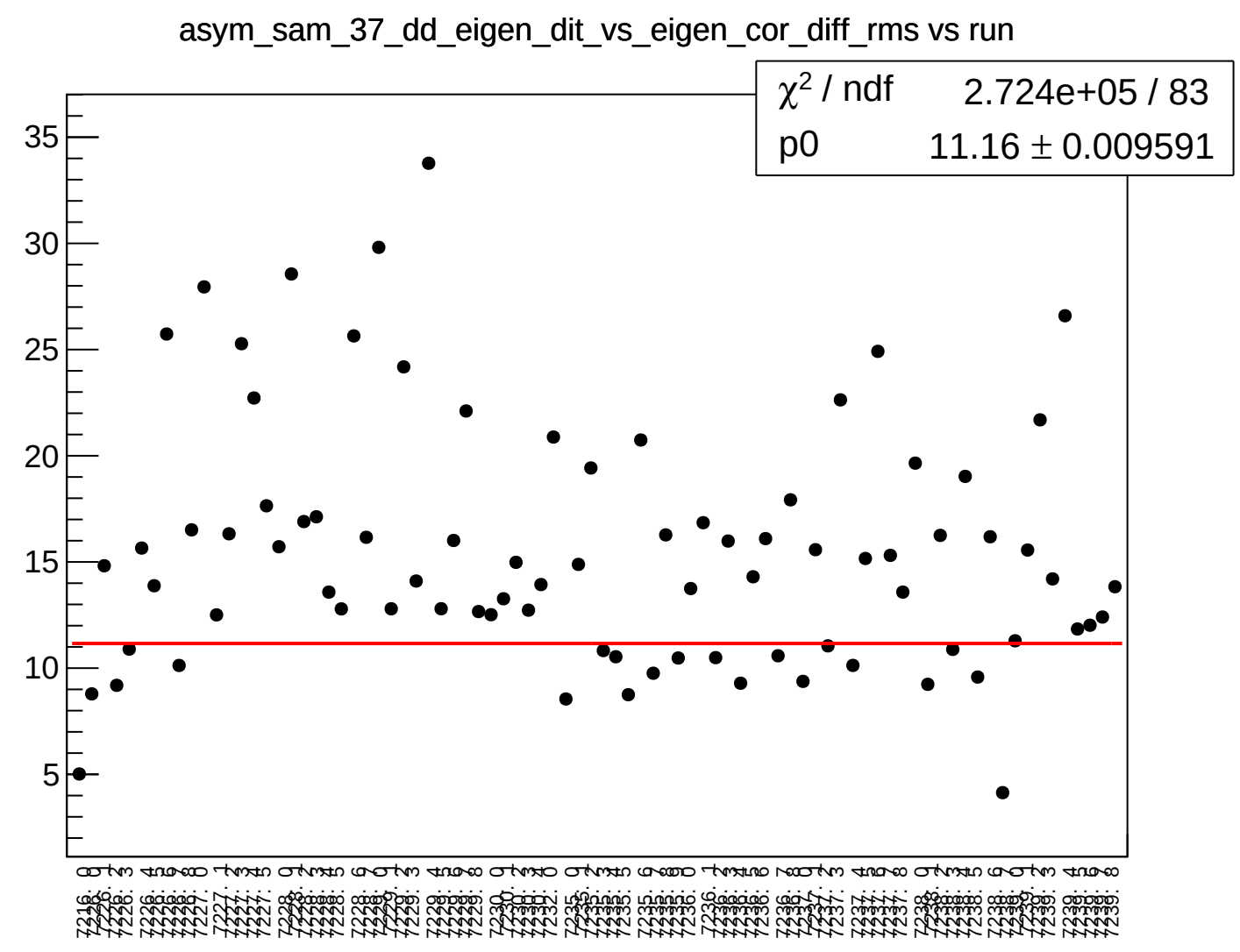

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.89 / 83
p0 0.02716 ± 0.01356
pull
Entries 84
Mean 279.8
Std Dev 0

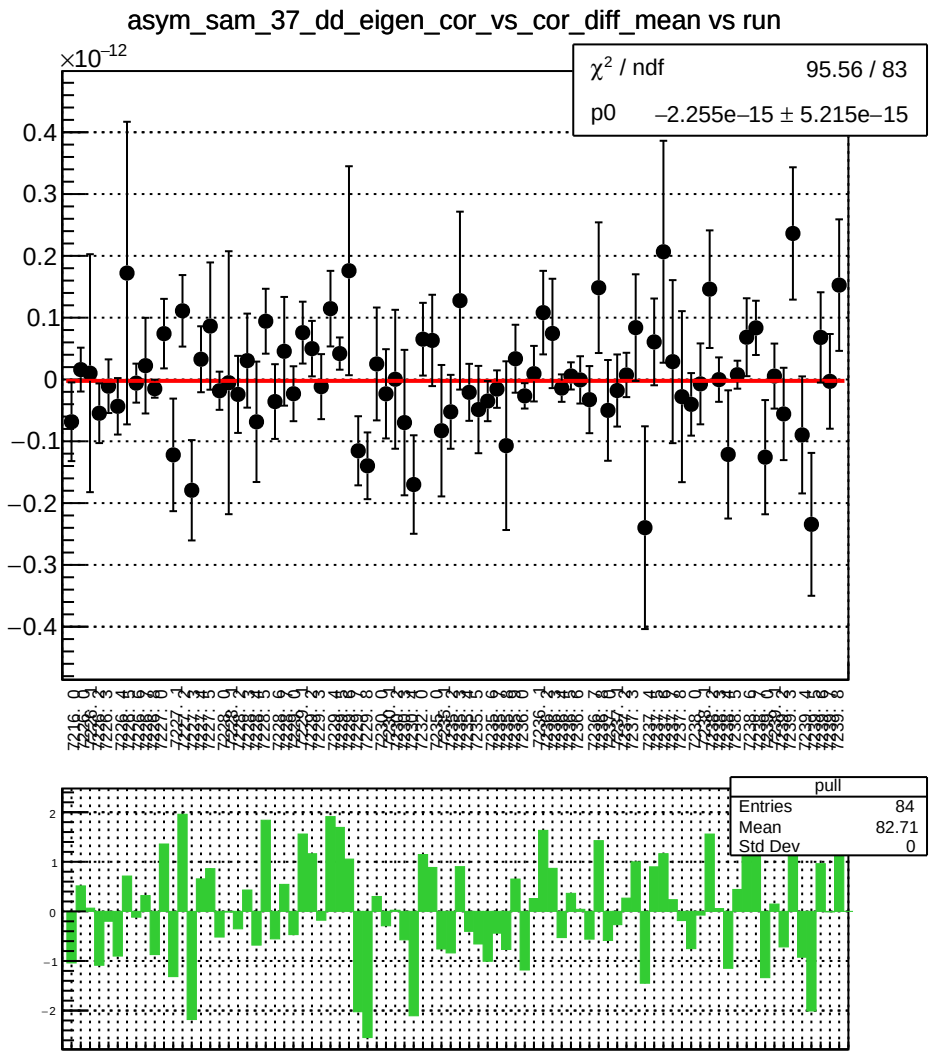

pull1D
Entries 84
Mean 0.006951
Std Dev 0.9873

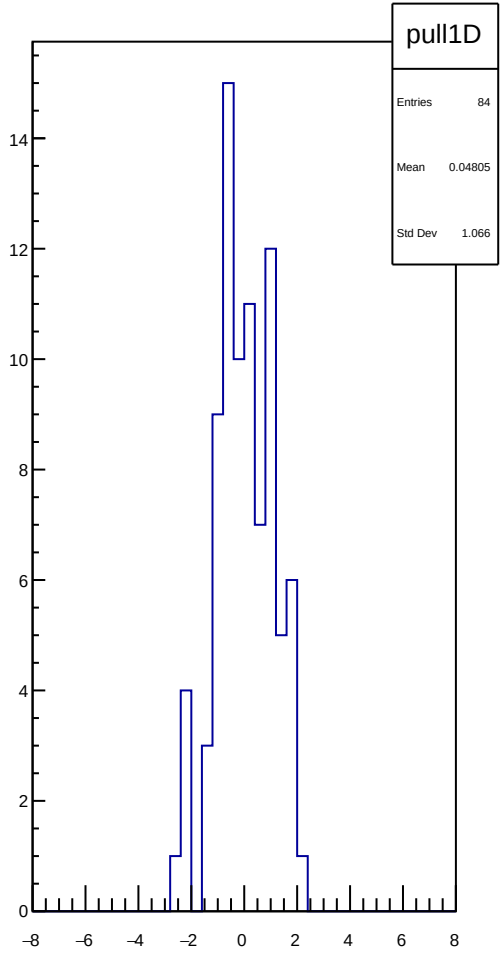

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.724e+05 / 83
p0 11.16 ± 0.009591
35
30
25
20
15
10
5

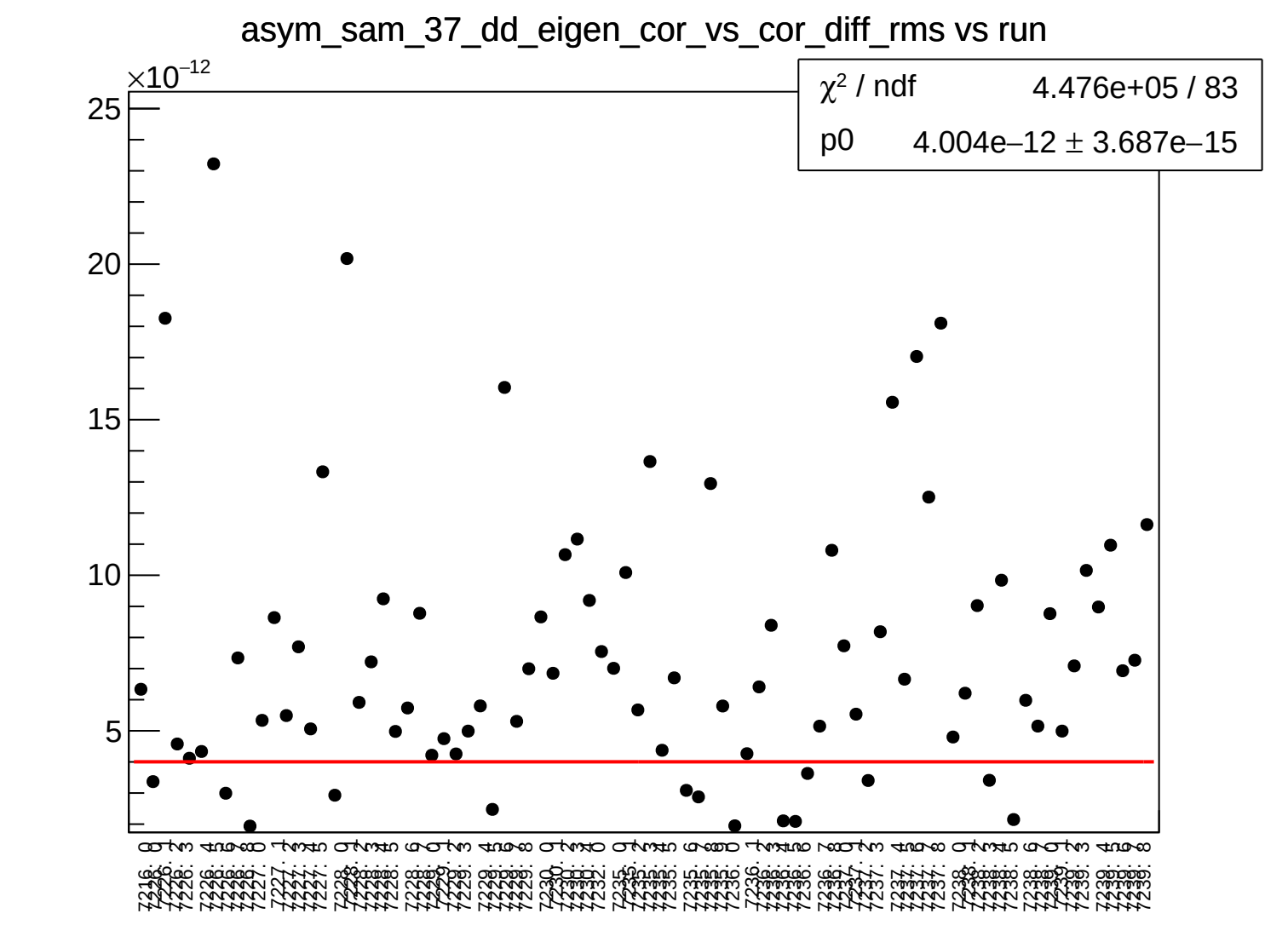

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.89 / 83
p0 0.02716 ± 0.01356
pull
Entries 84
Mean 279.8
Std Dev 0

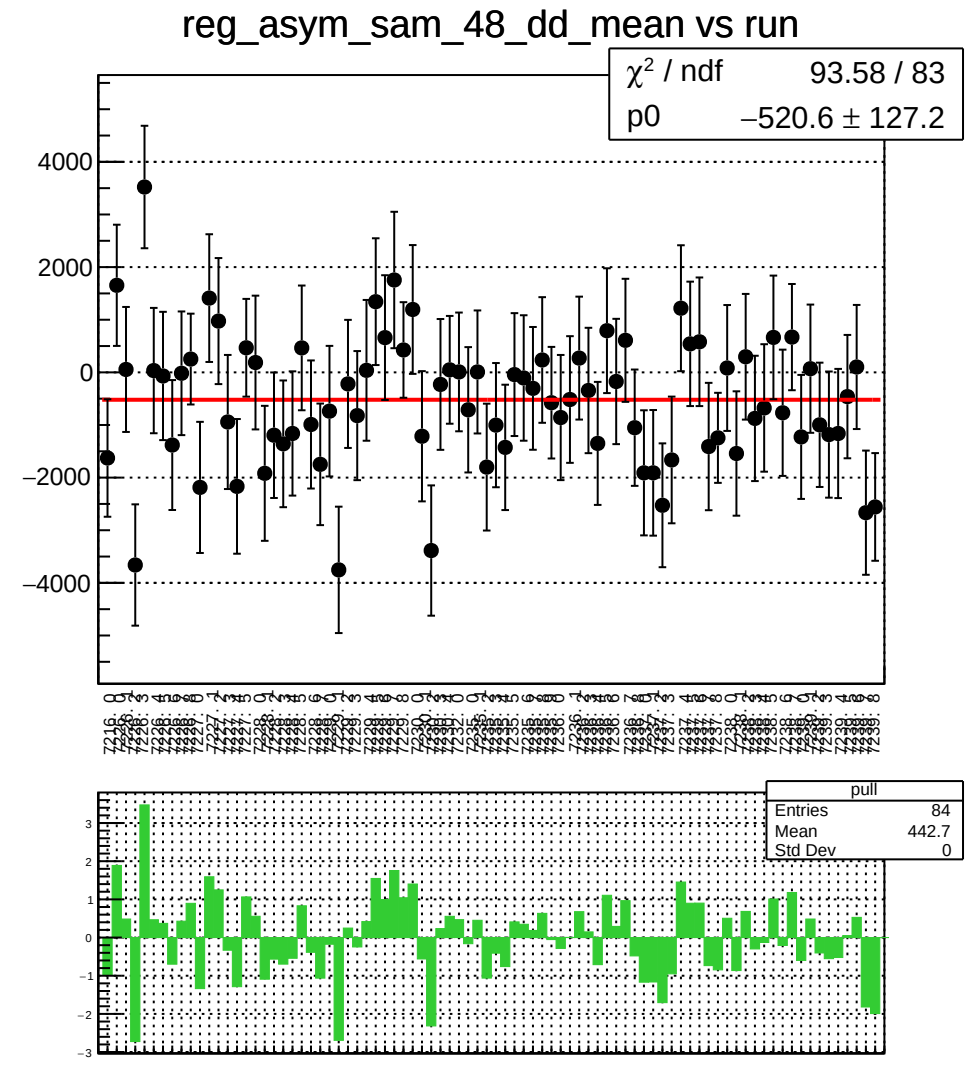

pull1D
Entries 84
Mean 0.006951
Std Dev 0.9873

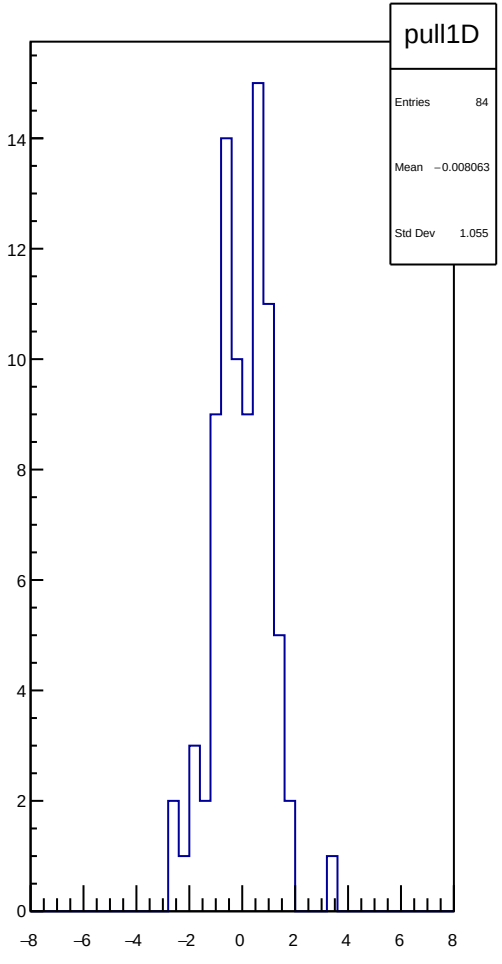

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.724e+05 / 83
p0 11.16 ± 0.009591
35
30
25
20
15
10
5

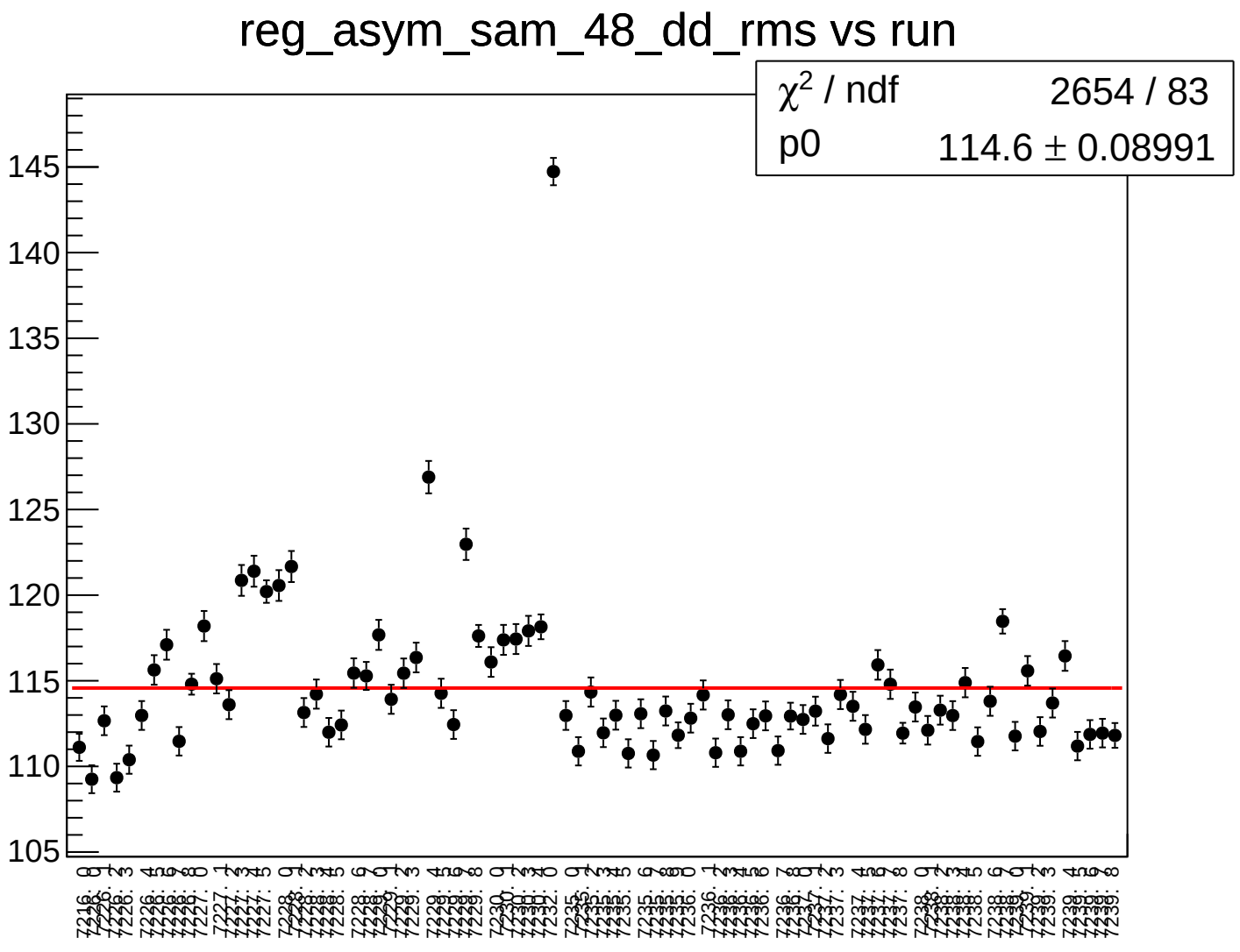

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 95.56 / 83
p0 −2.255e−15 ± 5.215e−15
pull
Entries 84
Mean 82.71
Std Dev 0

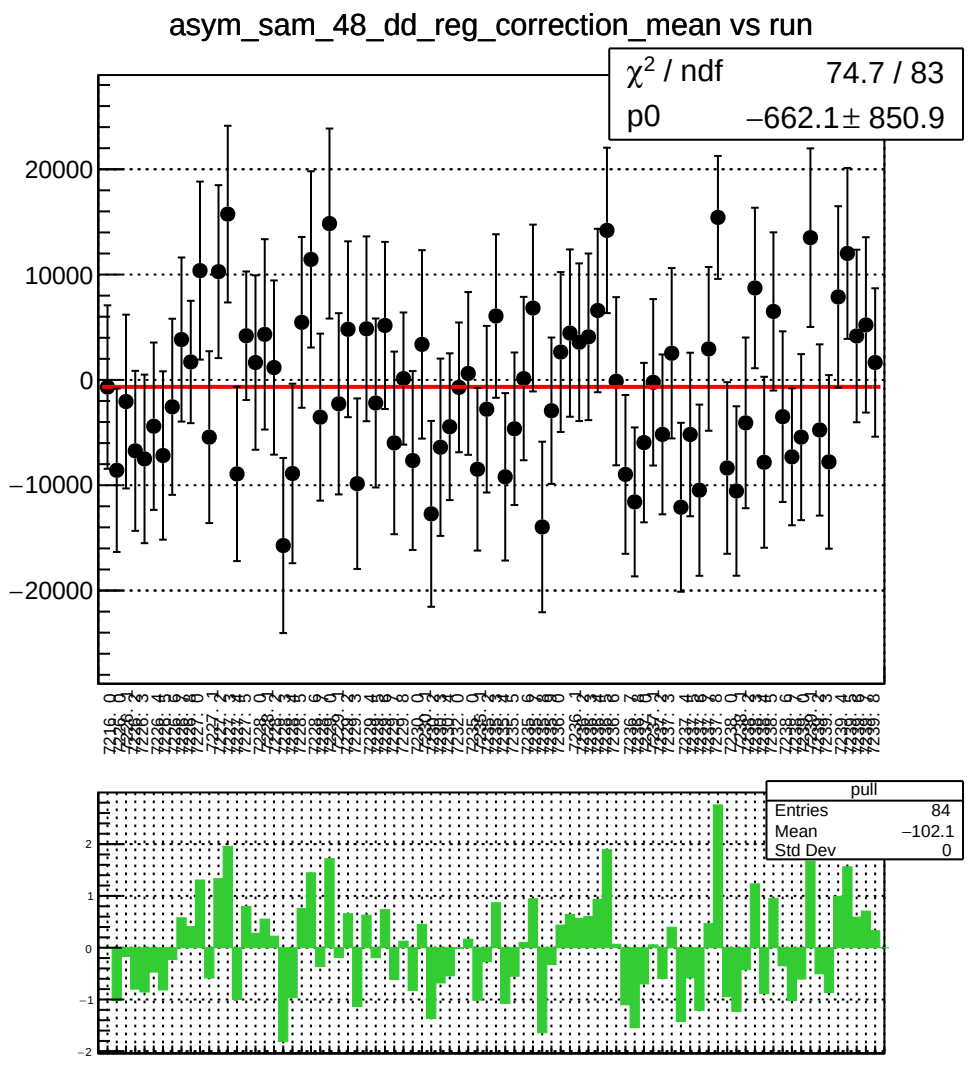

pull1D
Entries 84
Mean 0.04805
Std Dev 1.066

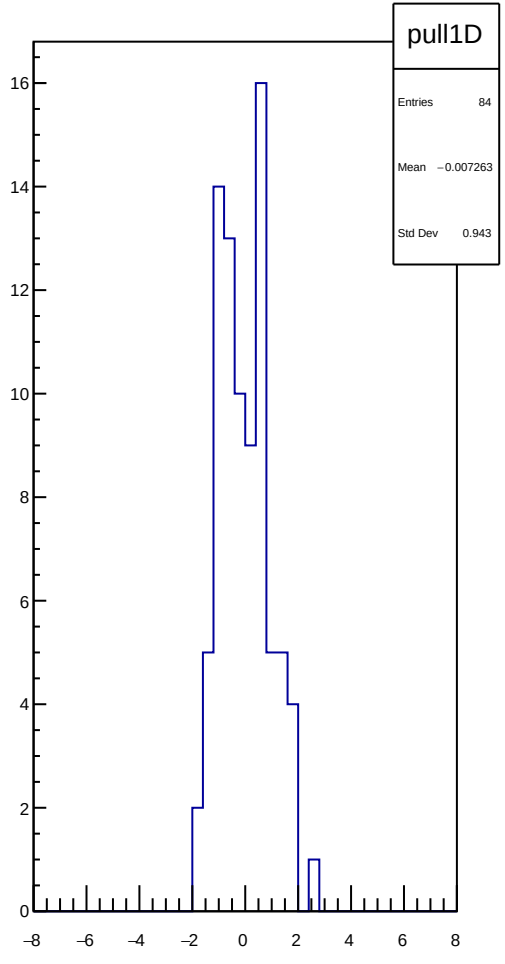

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.476e+05 / 83
p0 4.004e−12 ± 3.687e−15
25
20
15
10
5

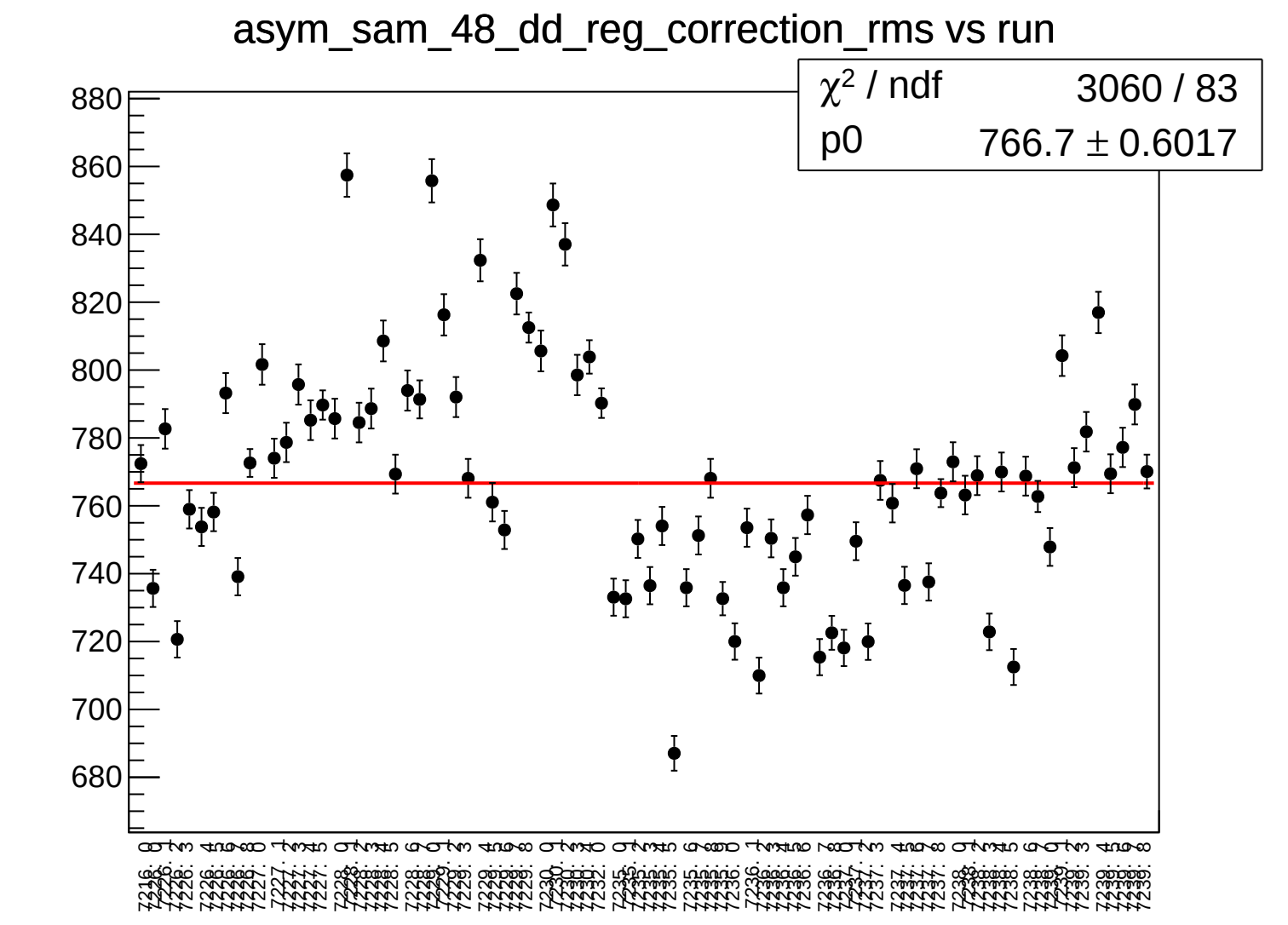

reg_asym_sam_48_dd_mean vs run
χ² / ndf 93.58 / 83
p0 −520.6 ± 127.2
4000
2000
0
−2000
−4000
pull
Entries 84
Mean 442.7
Std Dev 0
3
2
1
0
−1
−2
−3

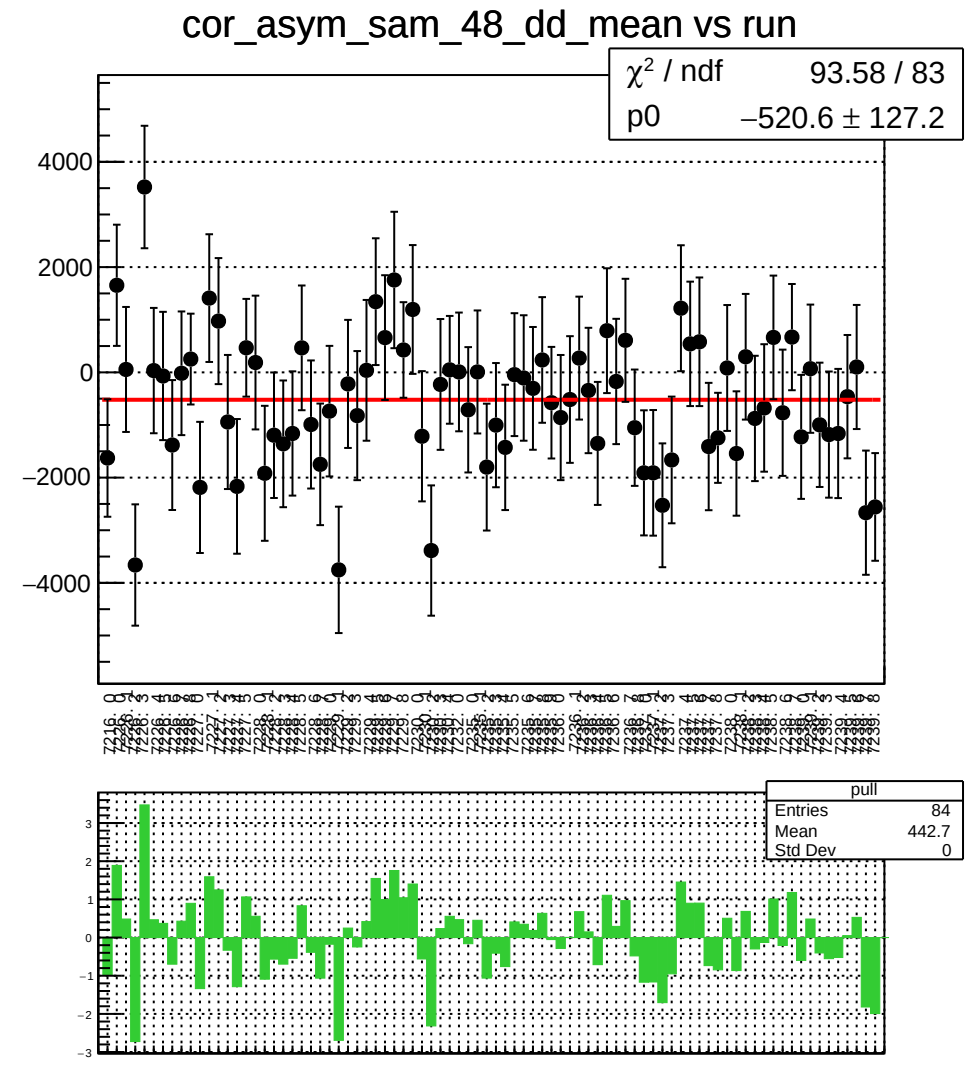

pull1D
Entries 84
Mean −0.008063
Std Dev 1.055
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

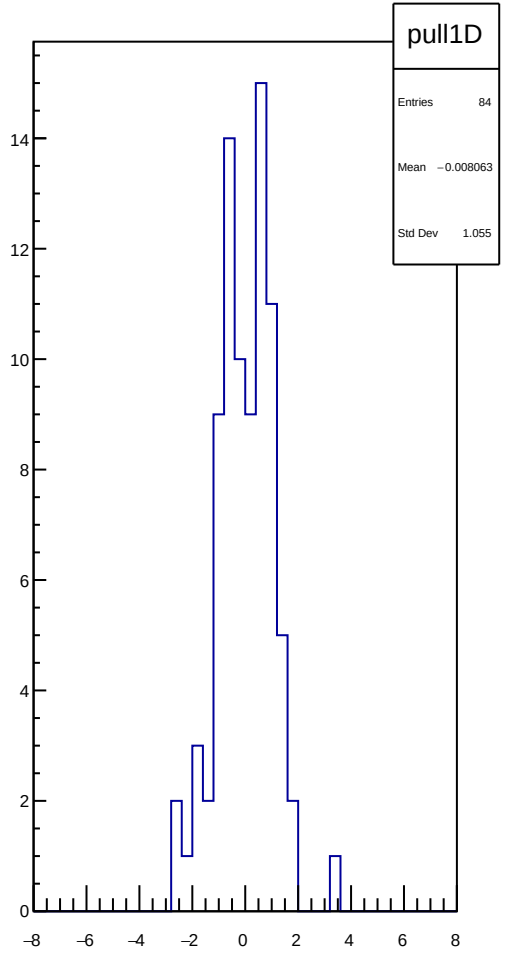

reg_asym_sam_48_dd_rms vs run
χ^2 / ndf 2654 / 83
p0 114.6 ± 0.08991
145
140
135
130
125
120
115
110
105

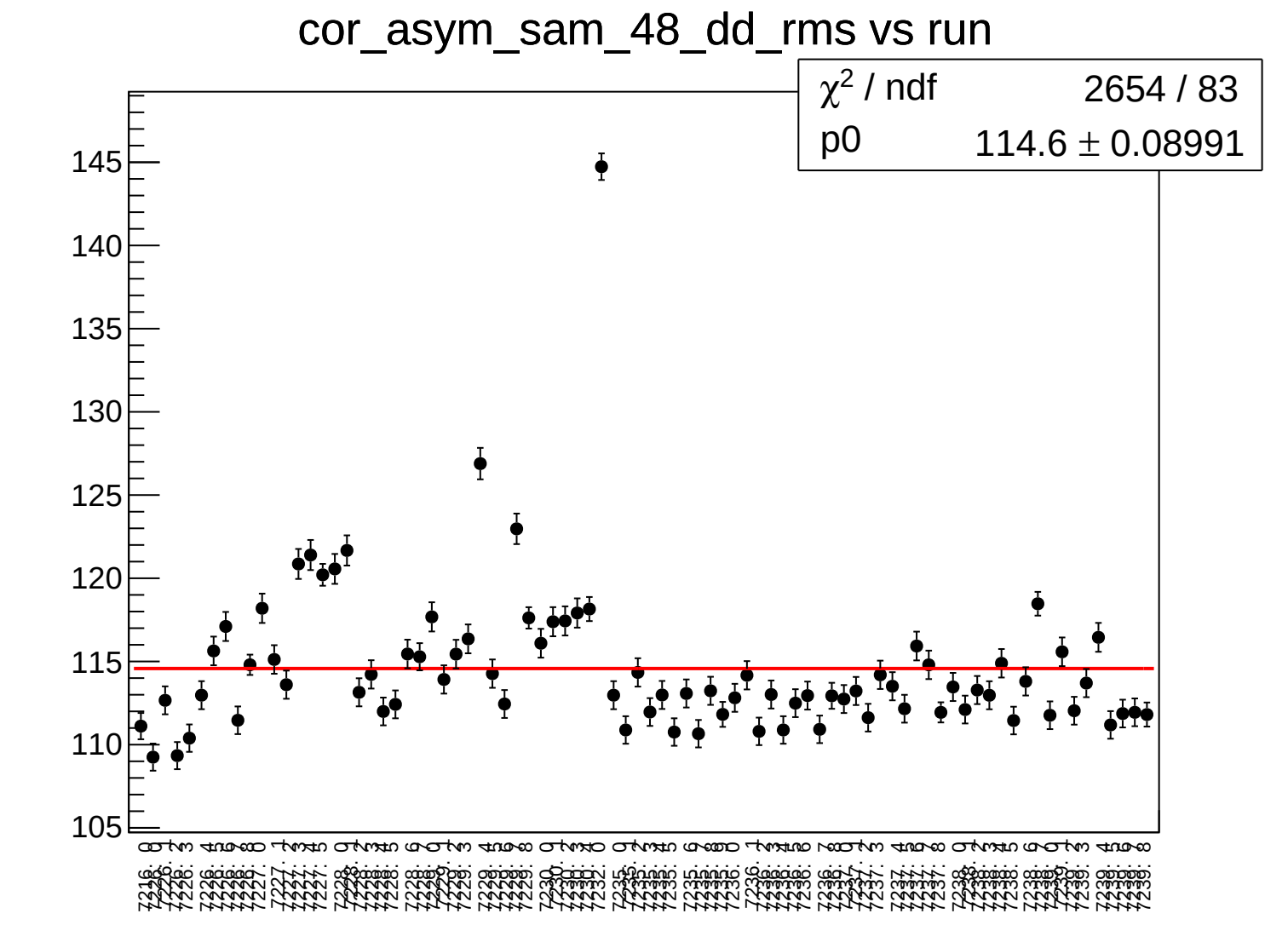

asym_sam_48_dd_reg_correction_mean vs run
χ² / ndf 74.7 / 83
p0 −662.1 ± 850.9
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −102.1
Std Dev 0
2
1
0
−1
−2

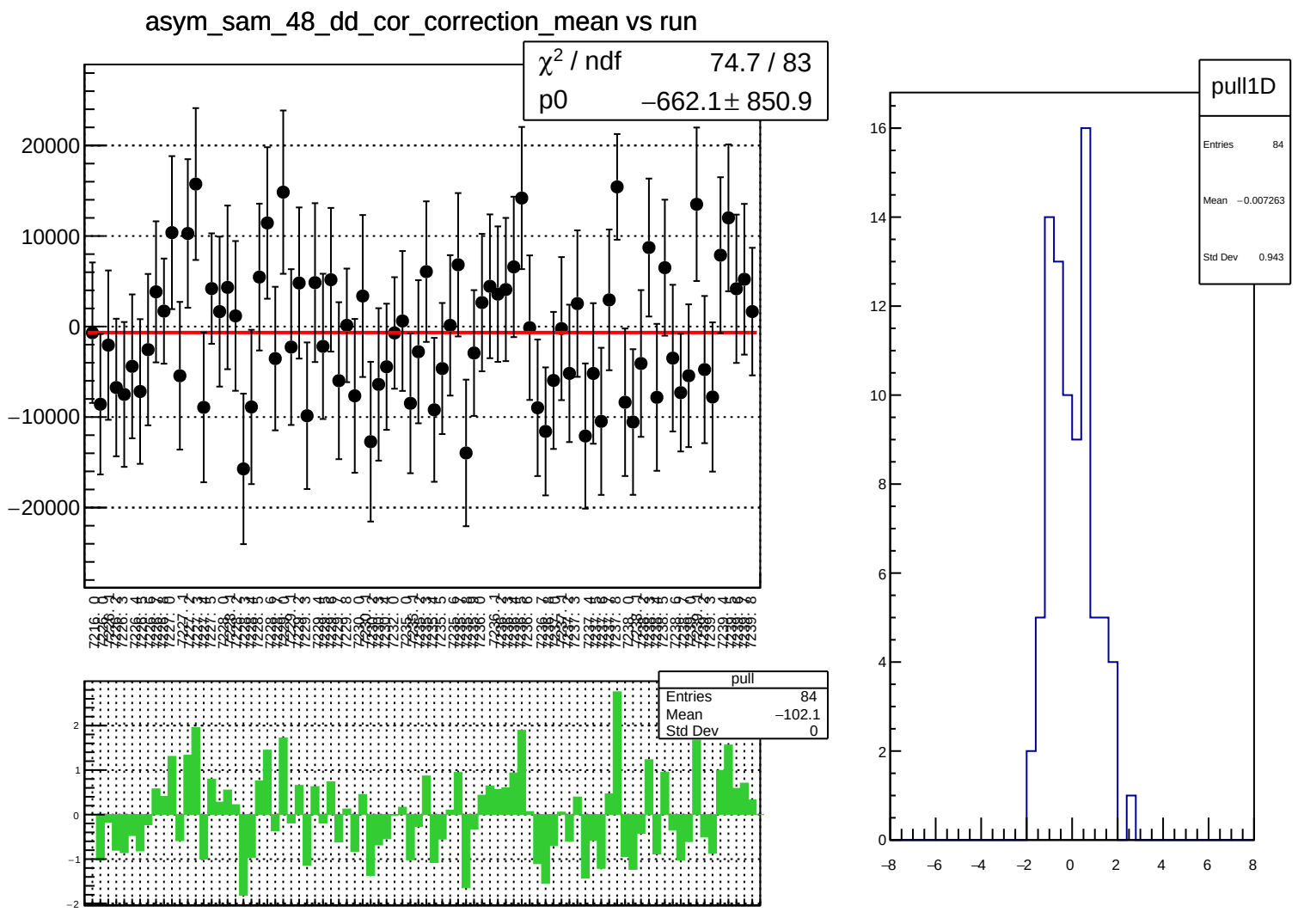

pull1D
Entries 84
Mean −0.007263
Std Dev 0.943
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

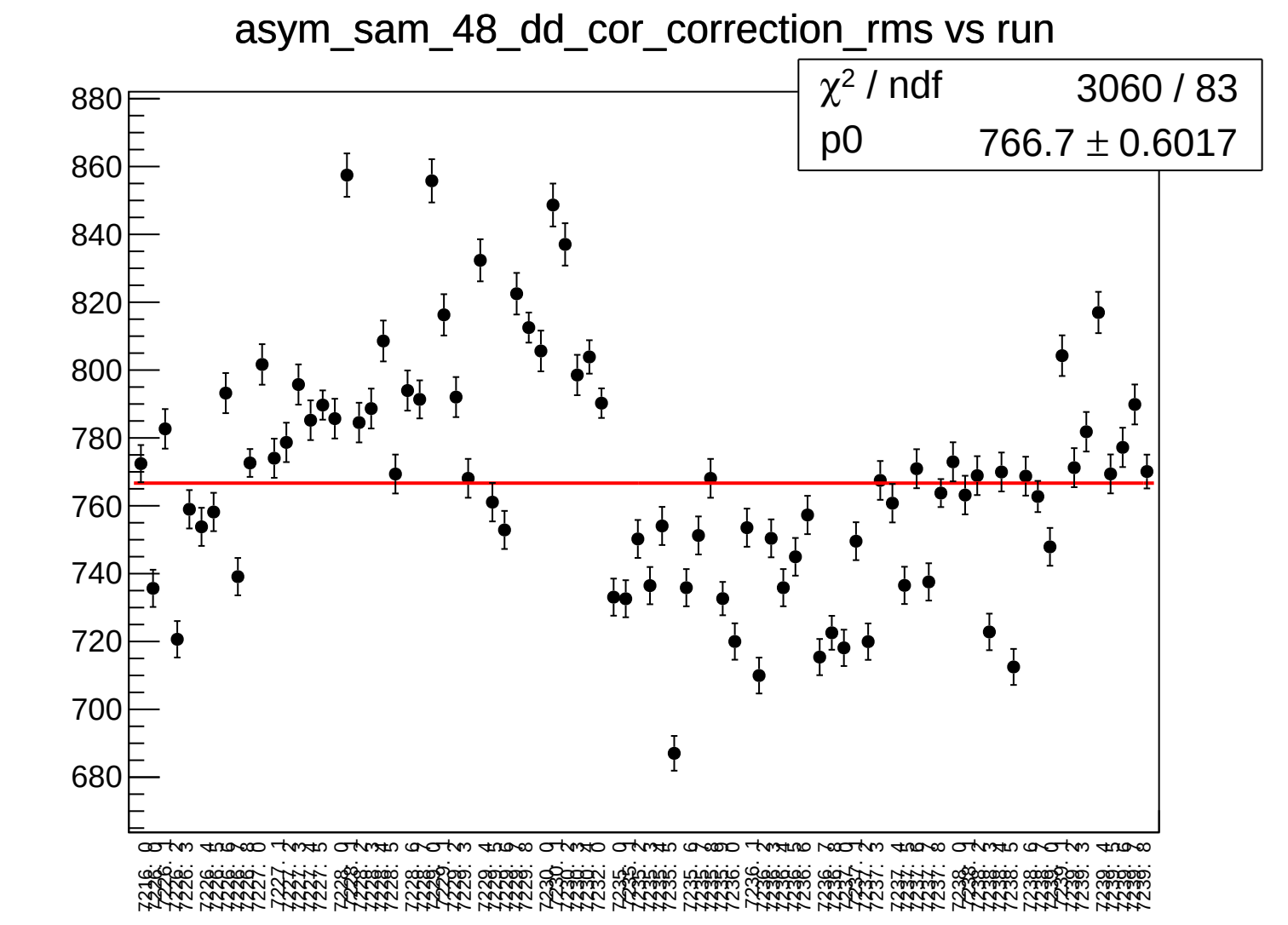

asym_sam_48_dd_reg_correction_rms vs run
χ^2 / ndf 3060 / 83
p0 766.7 ± 0.6017
880
860
840
820
800
780
760
740
720
700
680

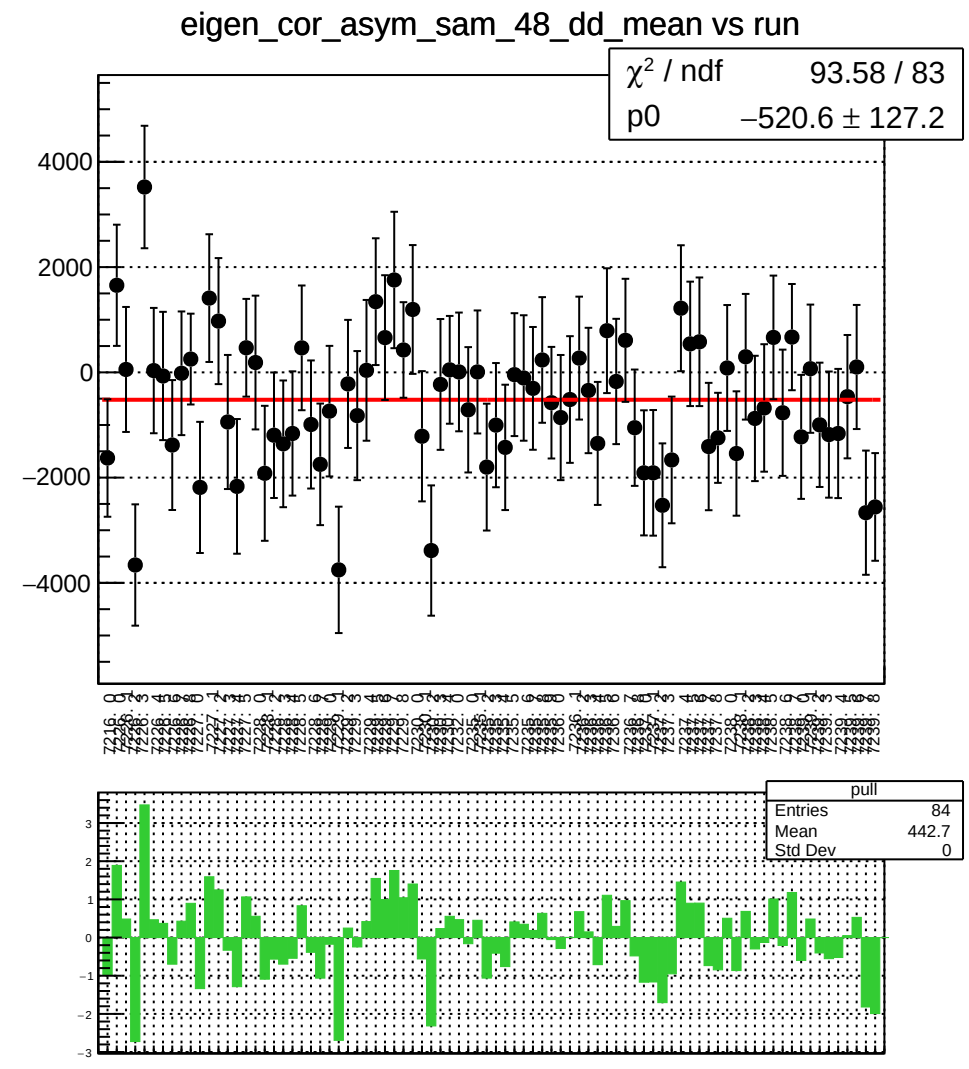

cor_asym_sam_48_dd_mean vs run
χ² / ndf 93.58 / 83
p0 −520.6 ± 127.2
4000
2000
0
−2000
−4000
pull
Entries 84
Mean 442.7
Std Dev 0
3
2
1
0
−1
−2
−3

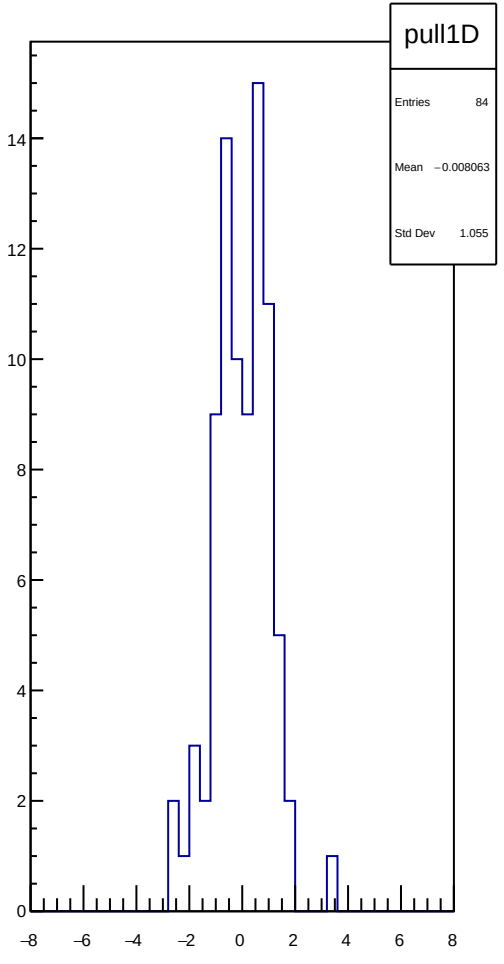

pull1D
Entries 84
Mean −0.008063
Std Dev 1.055
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

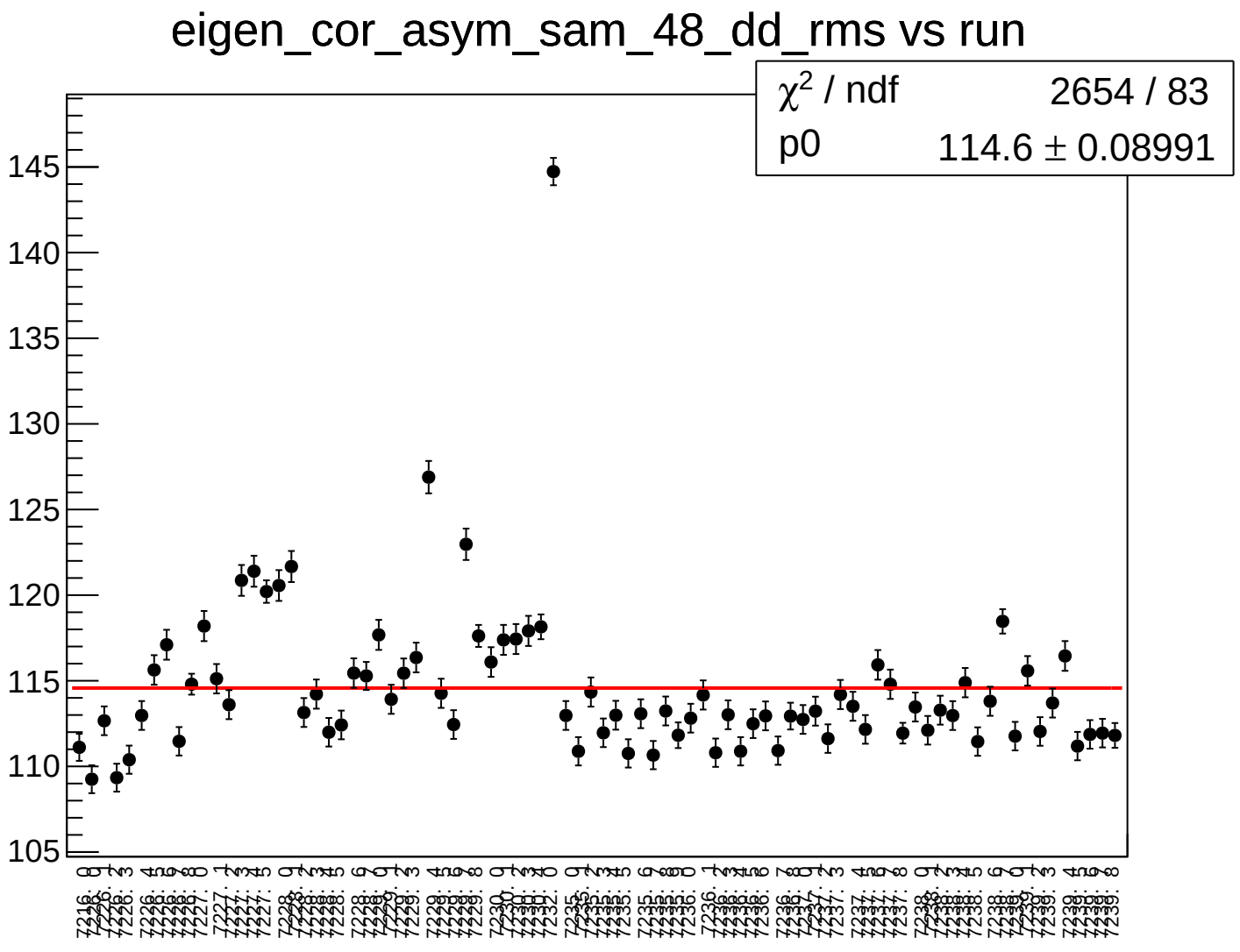

cor_asym_sam_48_dd_rms vs run
χ^2 / ndf 2654 / 83
p0 114.6 ± 0.08991
145
140
135
130
125
120
115
110
105

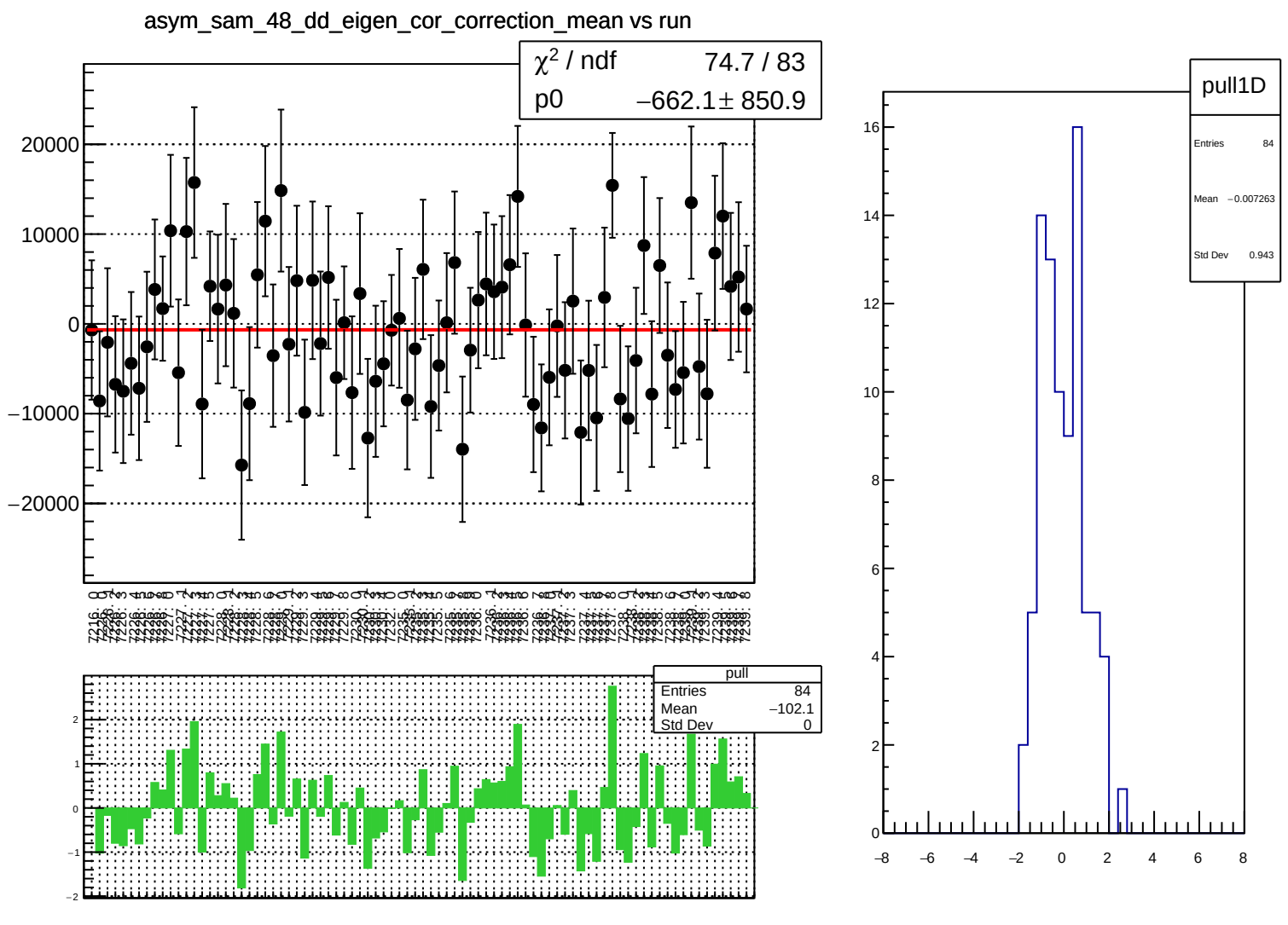

asym_sam_48_dd_cor_correction_mean vs run
χ² / ndf 74.7 / 83
p0 −662.1 ± 850.9
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −102.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.007263
Std Dev 0.943
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

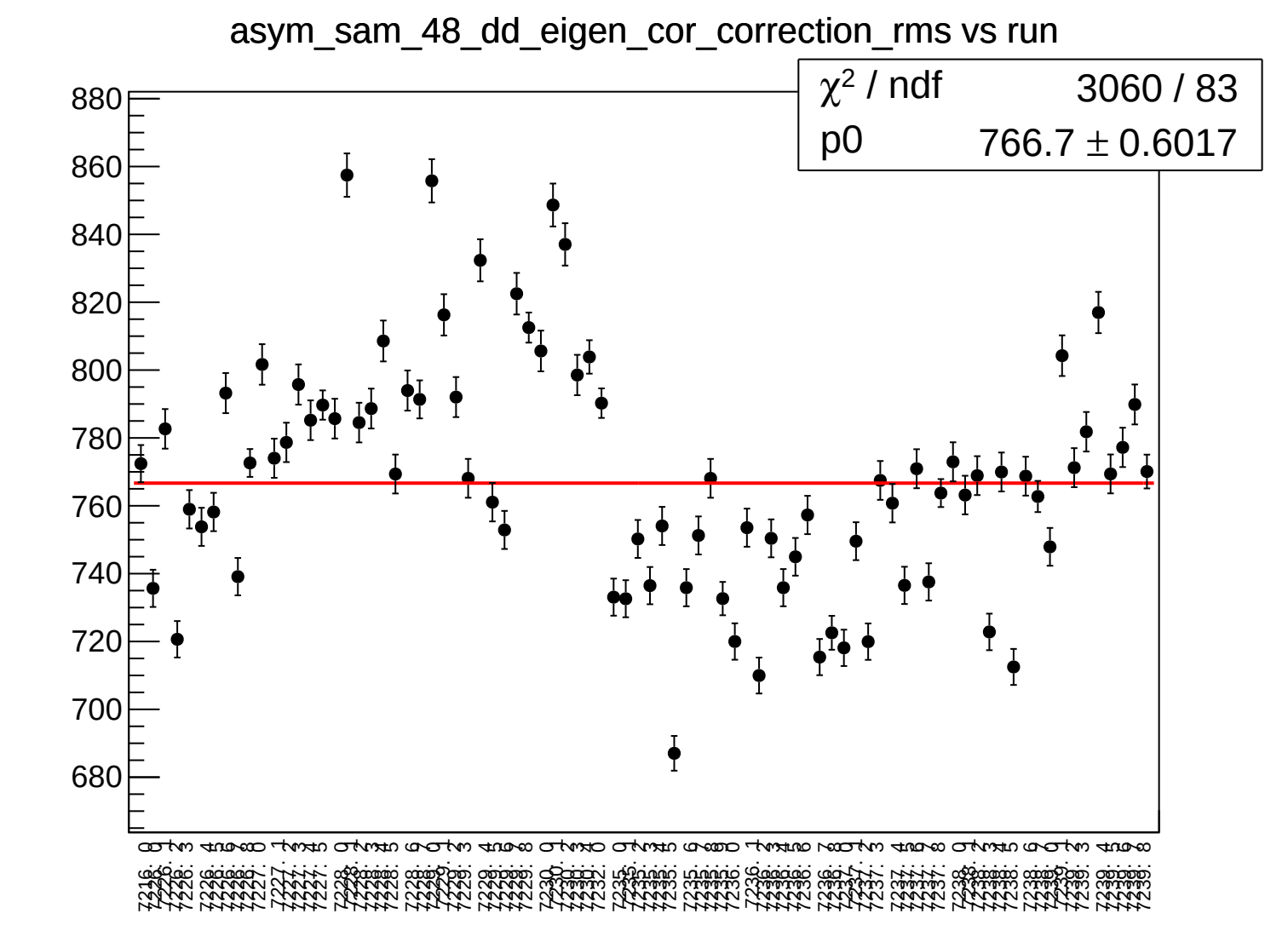

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 3060 / 83
p0 766.7 ± 0.6017
880
860
840
820
800
780
760
740
720
700
680

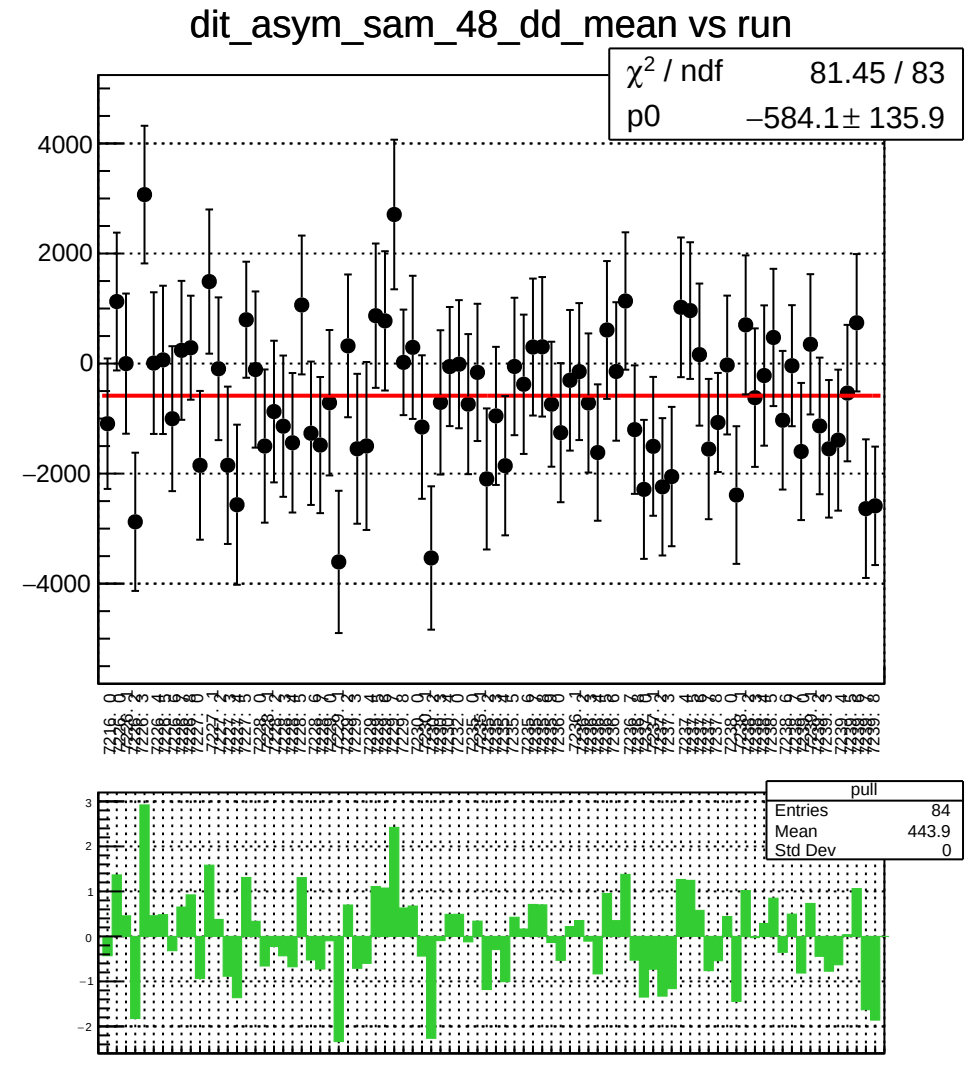

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 93.58 / 83
p0 −520.6 ± 127.2
4000
2000
0
−2000
−4000
pull
Entries 84
Mean 442.7
Std Dev 0
3
2
1
0
−1
−2
−3

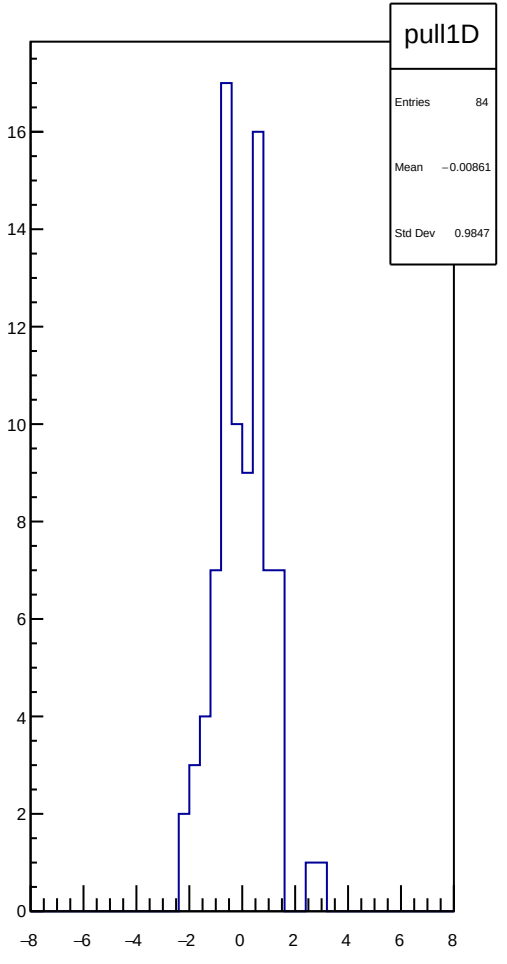

pull1D
Entries 84
Mean −0.008063
Std Dev 1.055
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

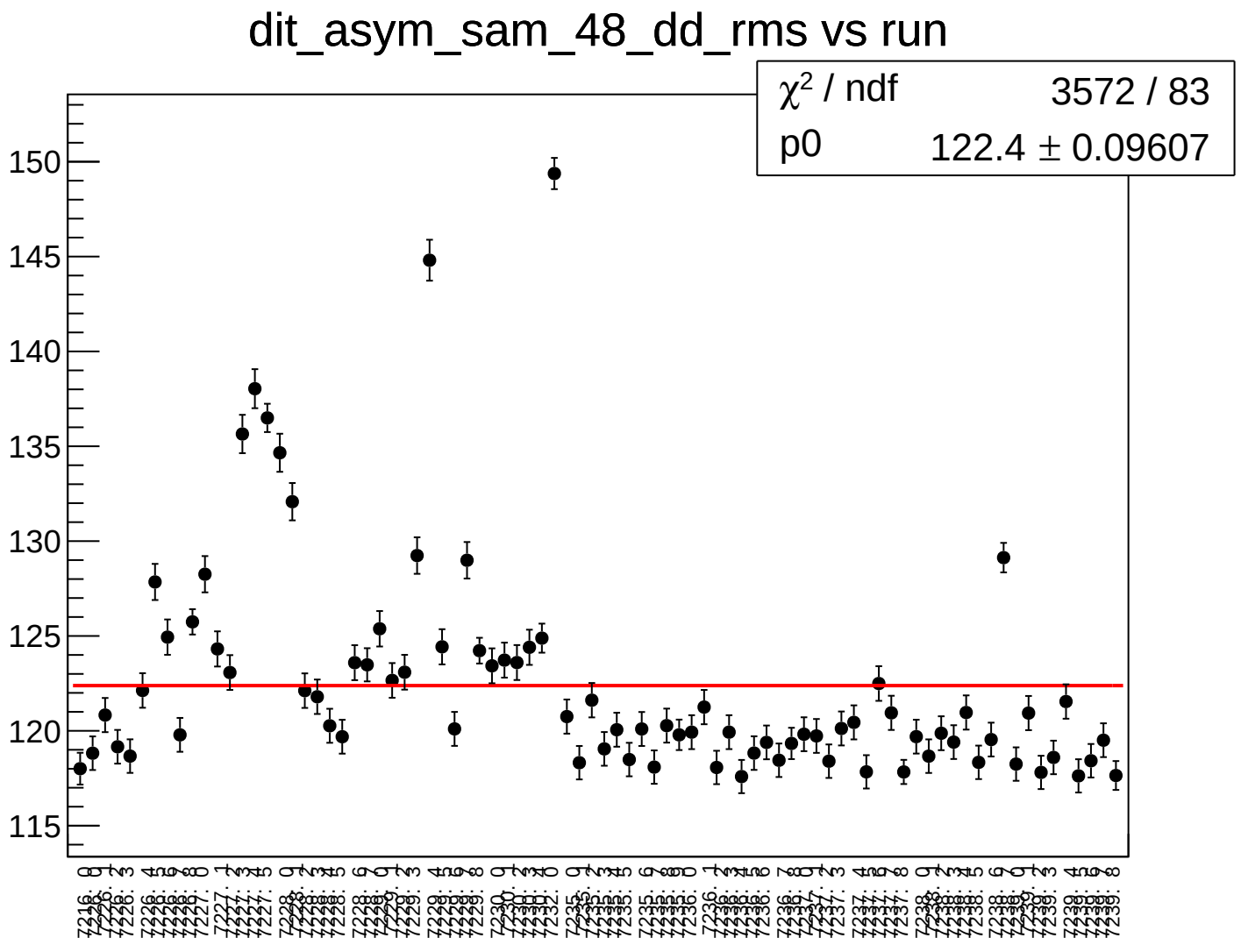

eigen_cor_asym_sam_48_dd_rms vs run
χ^2 / ndf 2654 / 83
p0 114.6 ± 0.08991
145
140
135
130
125
120
115
110
105

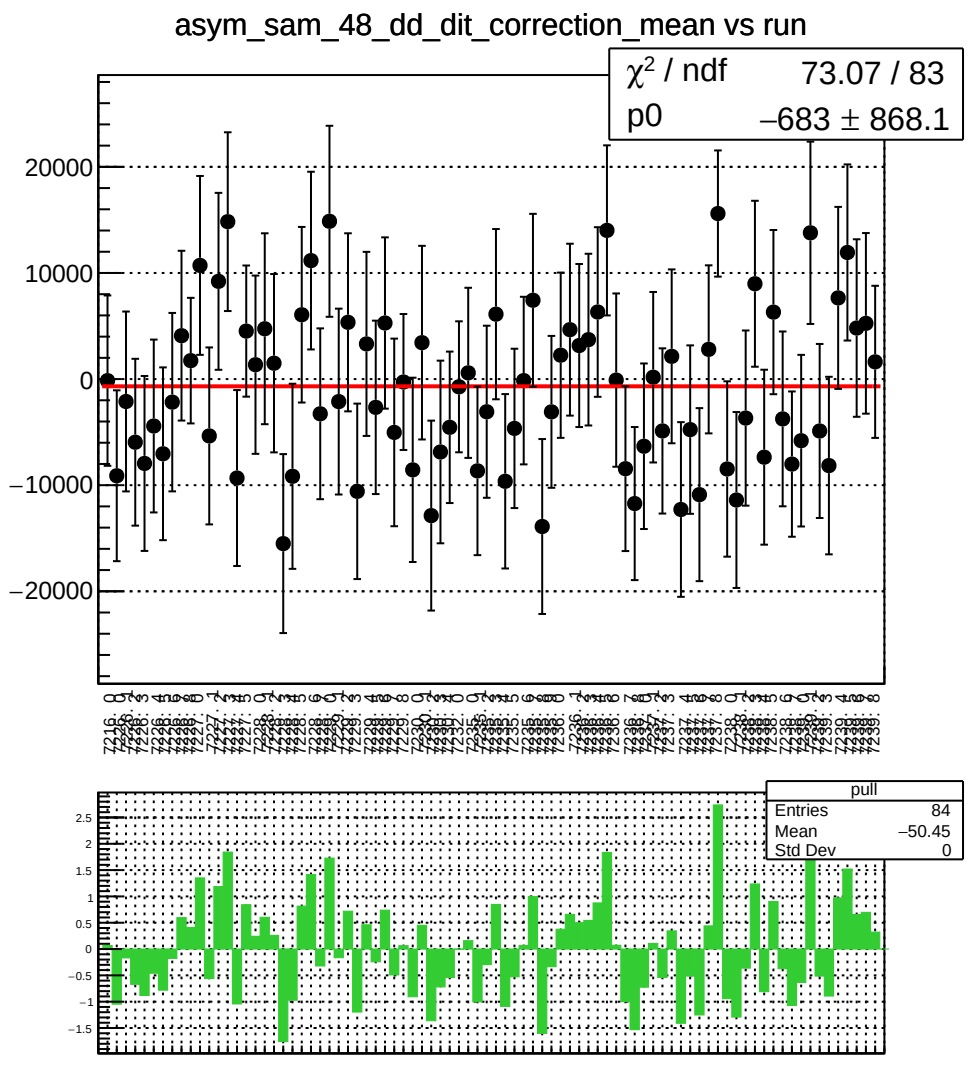

asym_sam_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 74.7 / 83
p0 −662.1 ± 850.9
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −102.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.007263
Std Dev 0.943
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

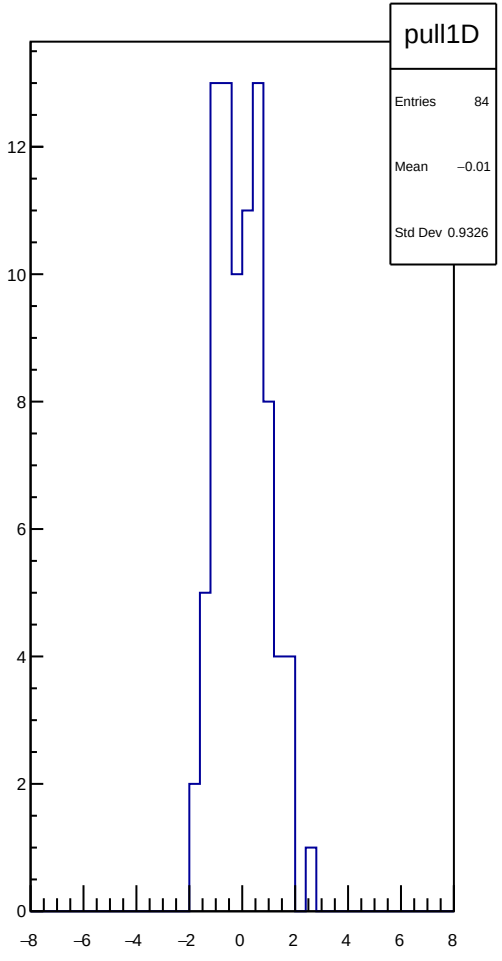

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 3060 / 83
p0 766.7 ± 0.6017
880
860
840
820
800
780
760
740
720
700
680

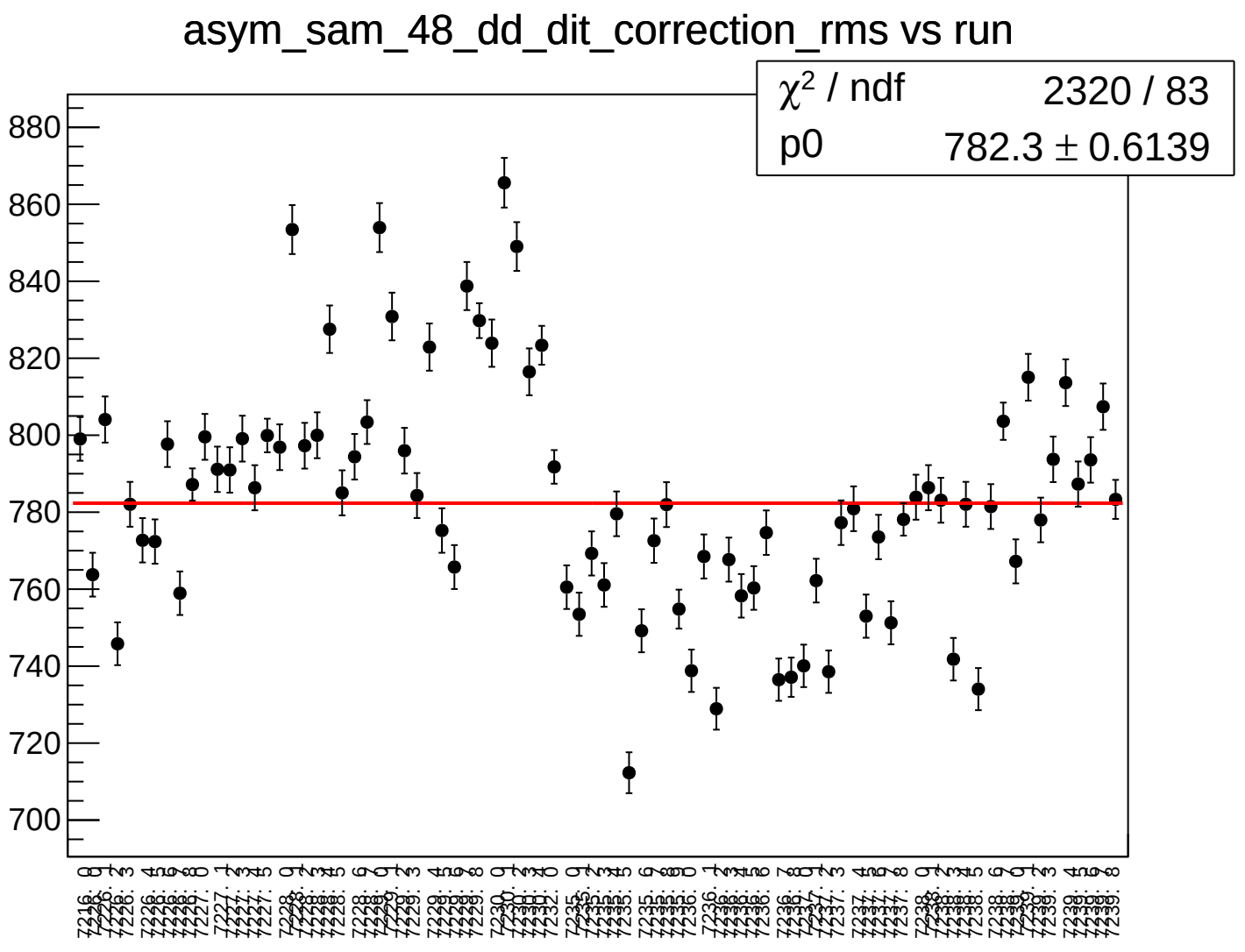

dit_asym_sam_48_dd_mean vs run
χ^2 / ndf 81.45 / 83
p0 −584.1± 135.9
4000
2000
0
−2000
−4000
pull
Entries 84
Mean 443.9
Std Dev 0
3
2
1
0
−1
−2

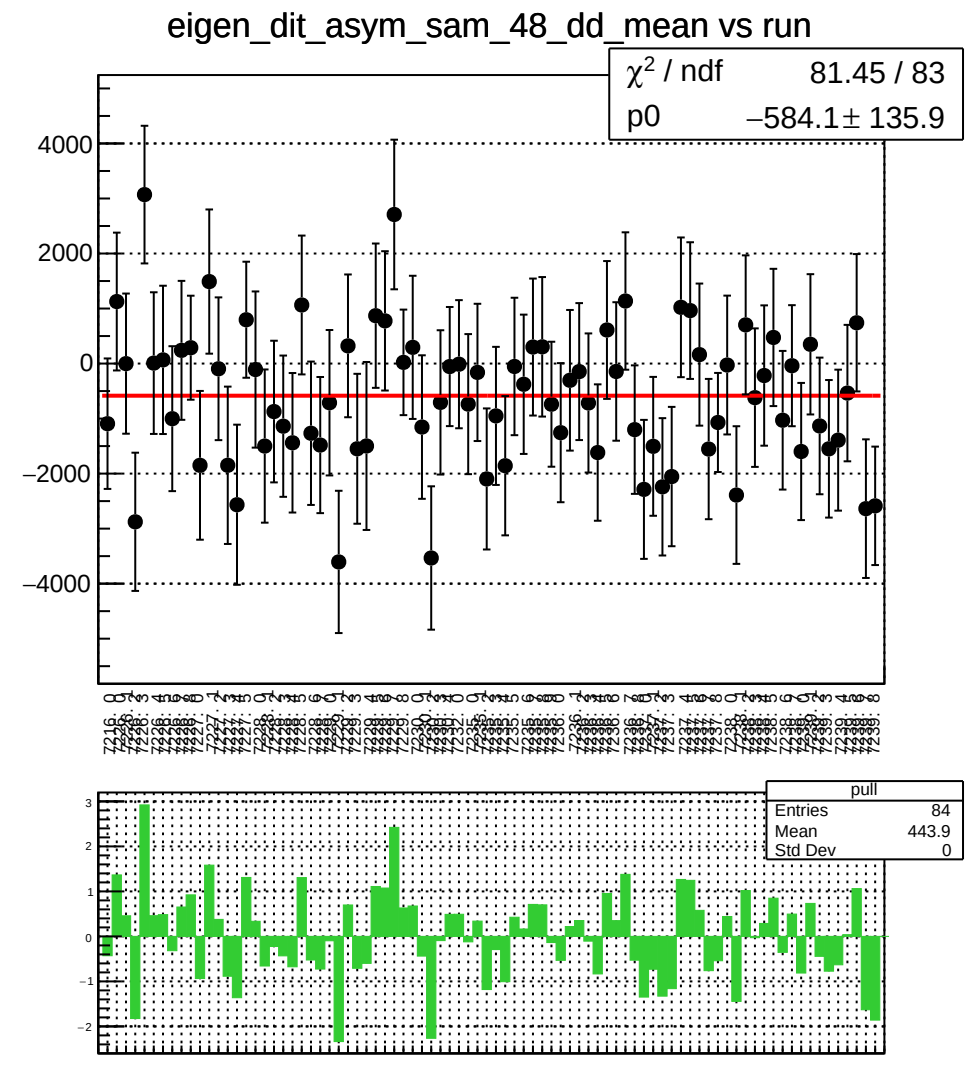

pull1D
Entries 84
Mean −0.00861
Std Dev 0.9847
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

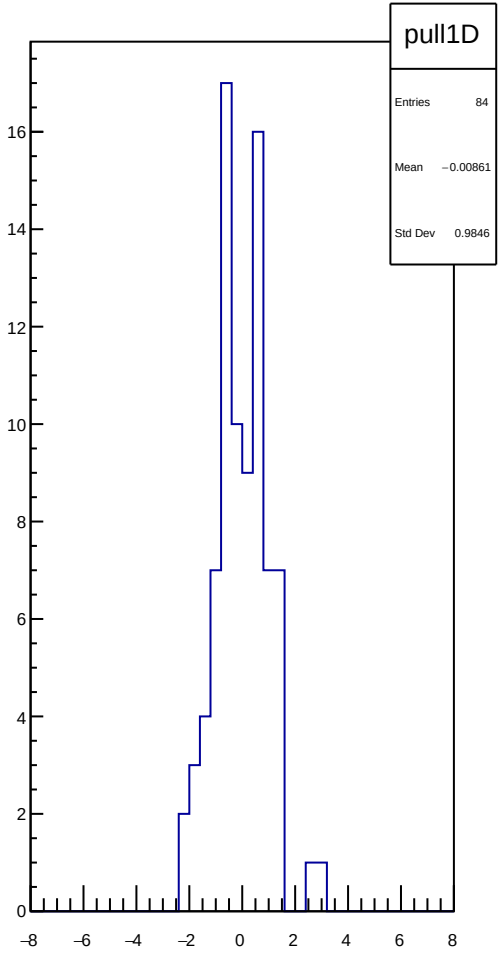

dit_asym_sam_48_dd_rms vs run
χ² / ndf 3572 / 83
p0 122.4 ± 0.09607
150
145
140
135
130
125
120
115

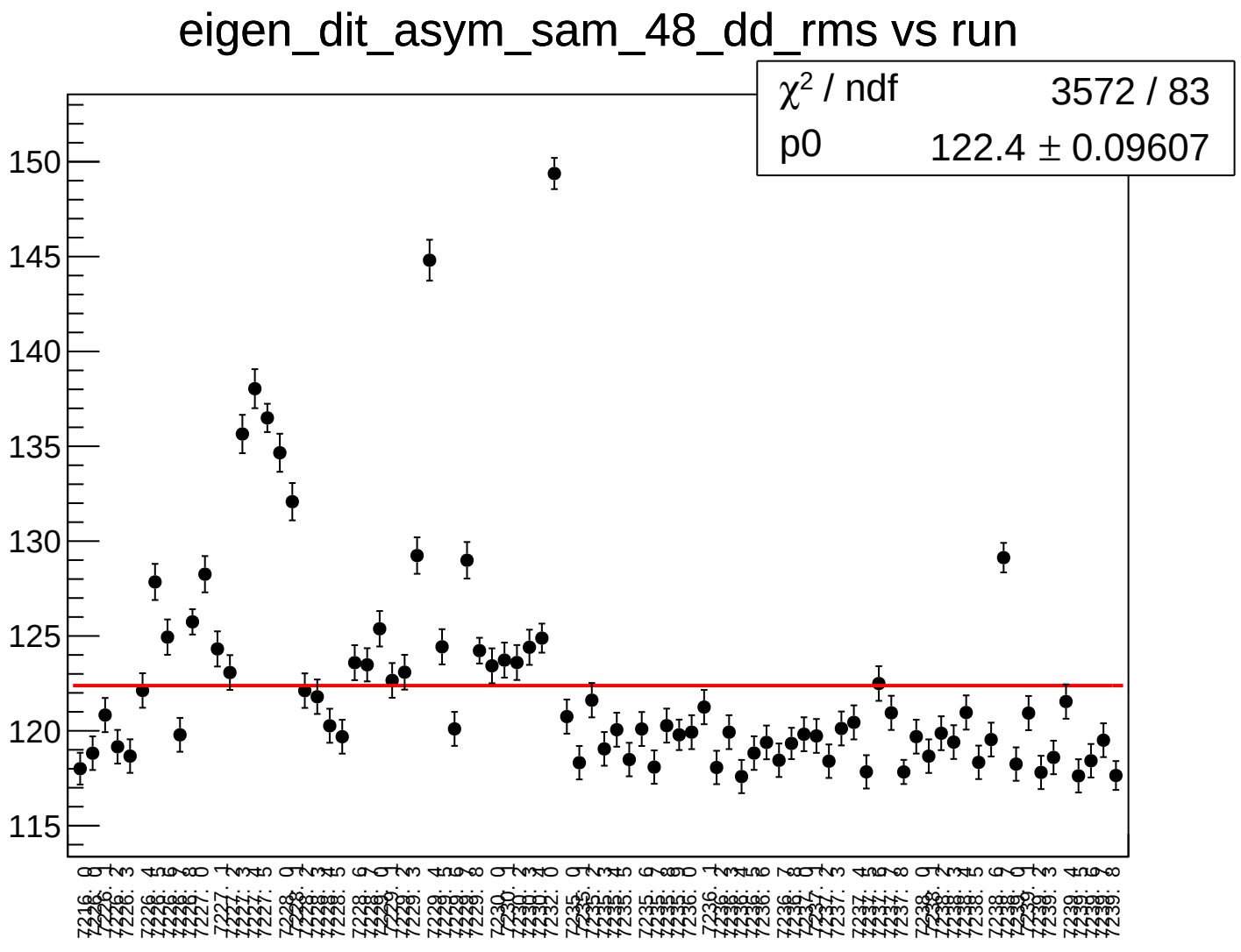

asym_sam_48_dd_dit_correction_mean vs run
χ² / ndf 73.07 / 83
p0 −683 ± 868.1
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −50.45
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

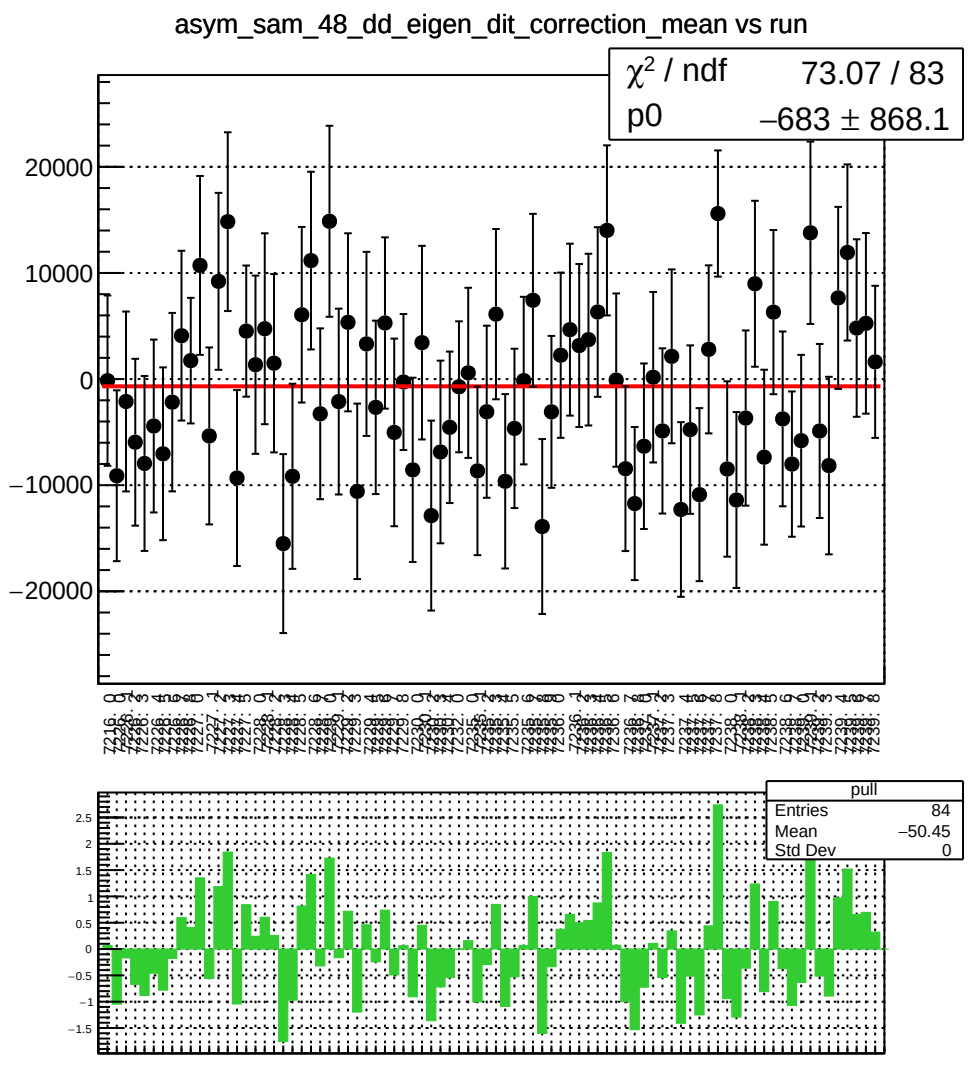

pull1D
Entries 84
Mean −0.01
Std Dev 0.9326
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

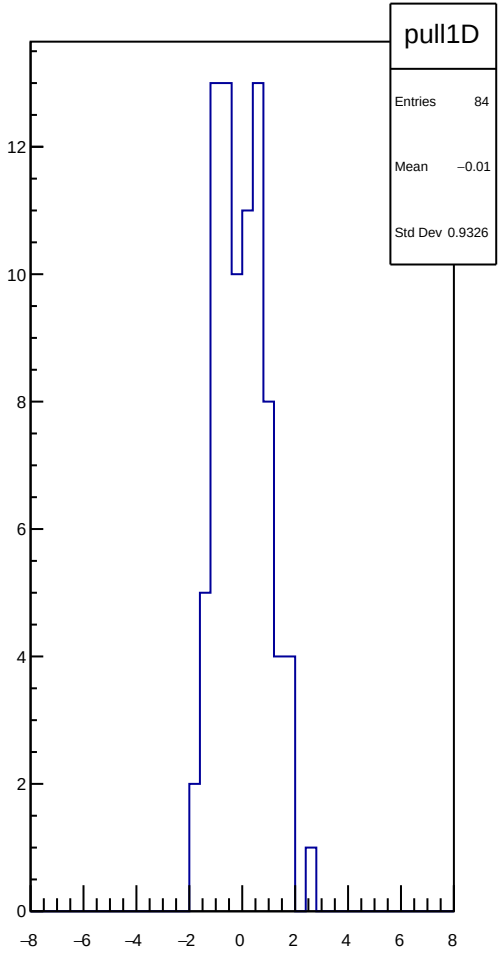

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 2320 / 83
p0 782.3 ± 0.6139
880
860
840
820
800
780
760
740
720
700

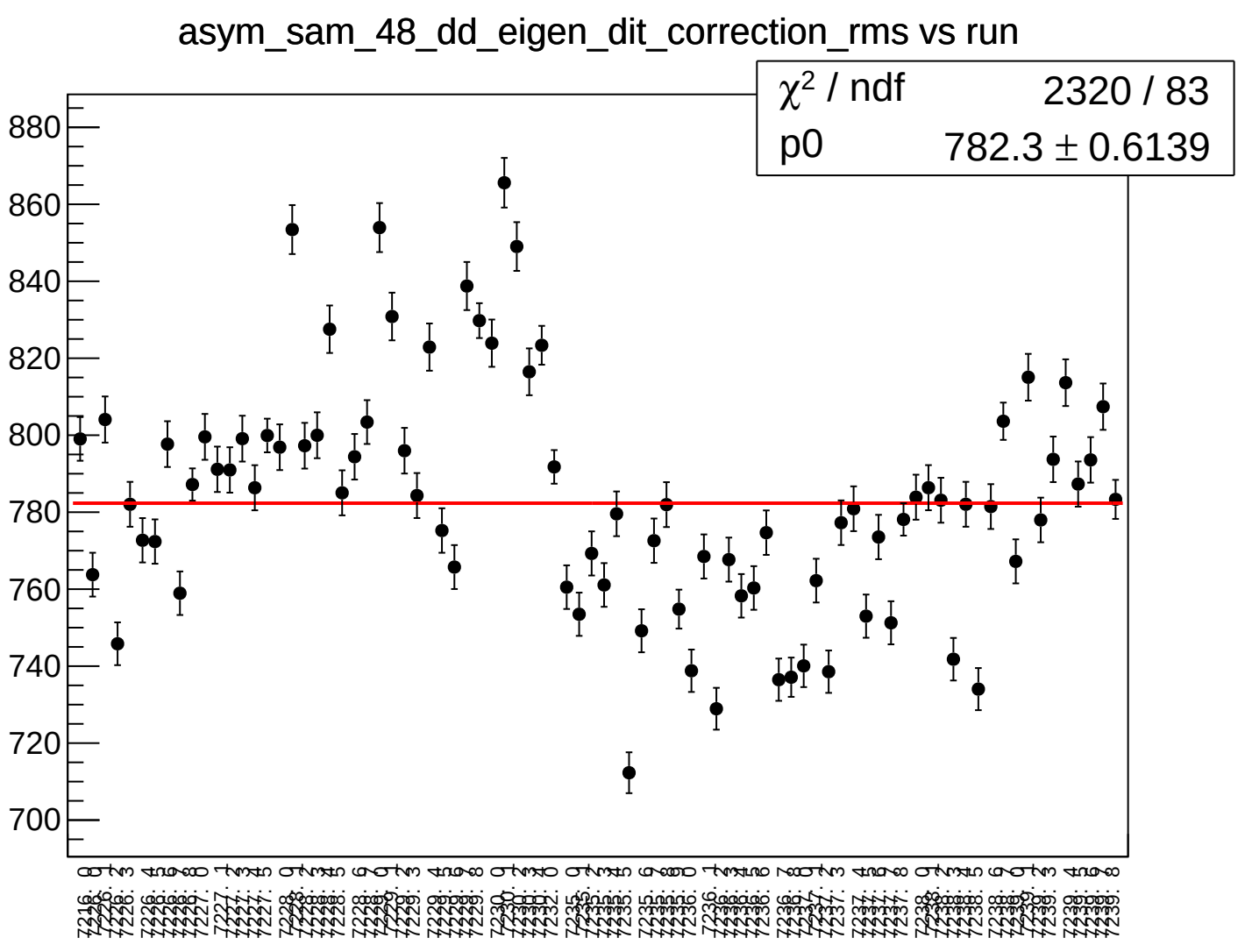

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 81.45 / 83
p0 −584.1± 135.9
4000
2000
0
−2000
−4000
pull
Entries 84
Mean 443.9
Std Dev 0
3
2
1
0
−1
−2

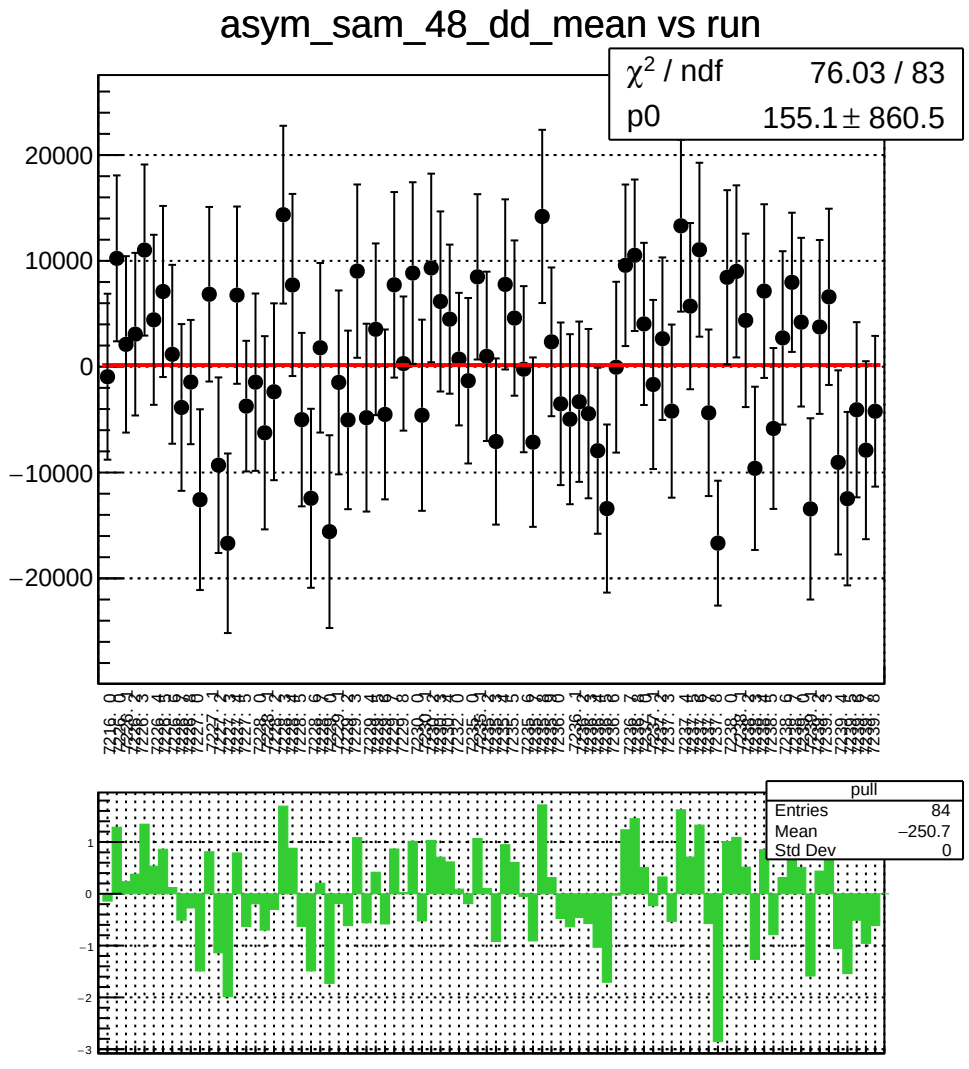

pull1D
Entries 84
Mean −0.00861
Std Dev 0.9846
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

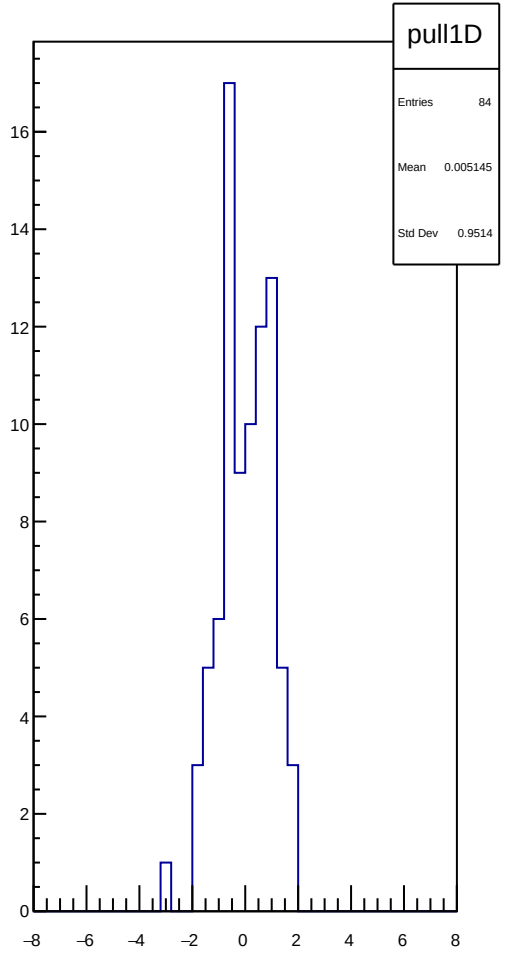

eigen_dit_asym_sam_48_dd_rms vs run
χ² / ndf 3572 / 83
p0 122.4 ± 0.09607
150
145
140
135
130
125
120
115

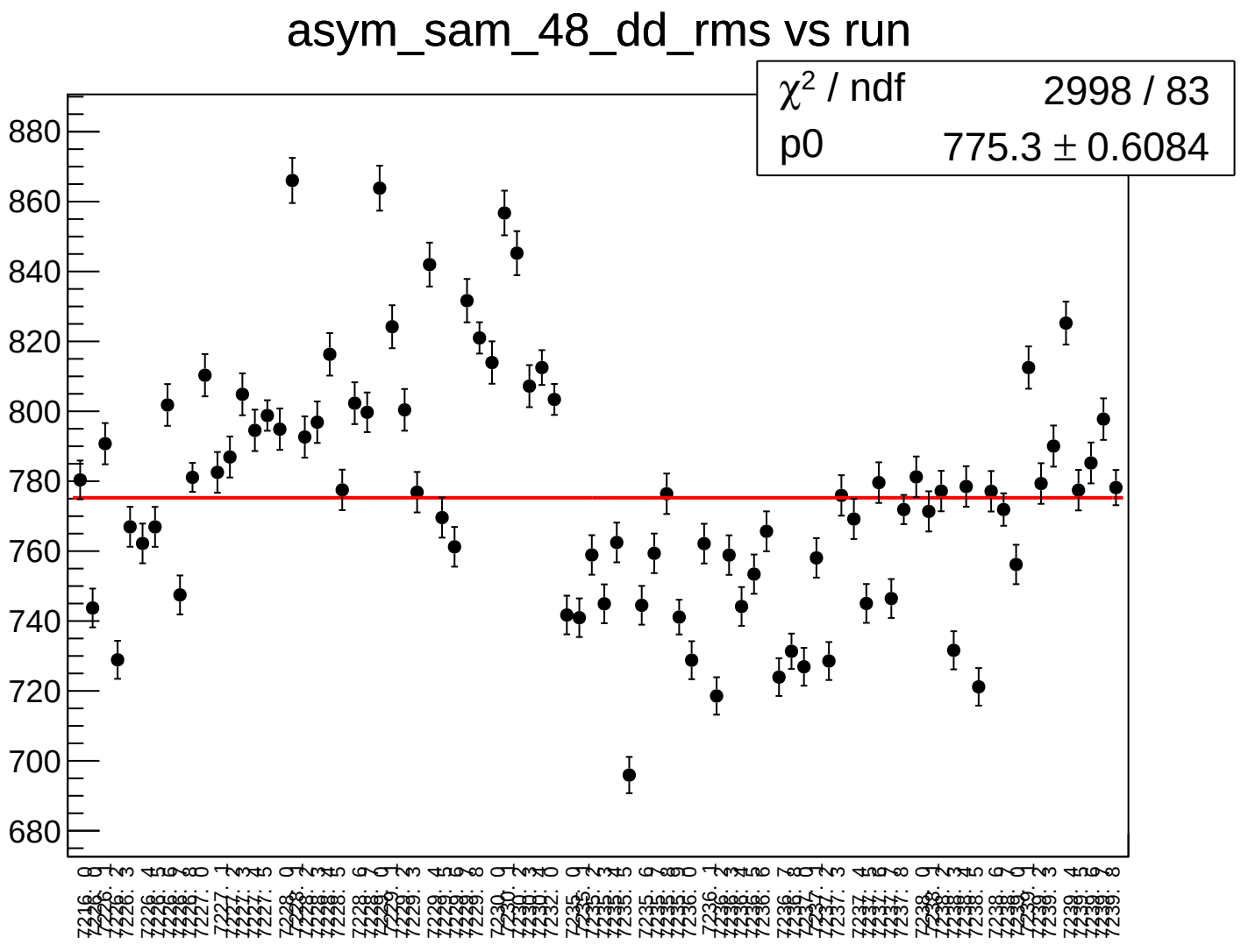

asym_sam_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 73.07 / 83
p0 −683 ± 868.1
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −50.45
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

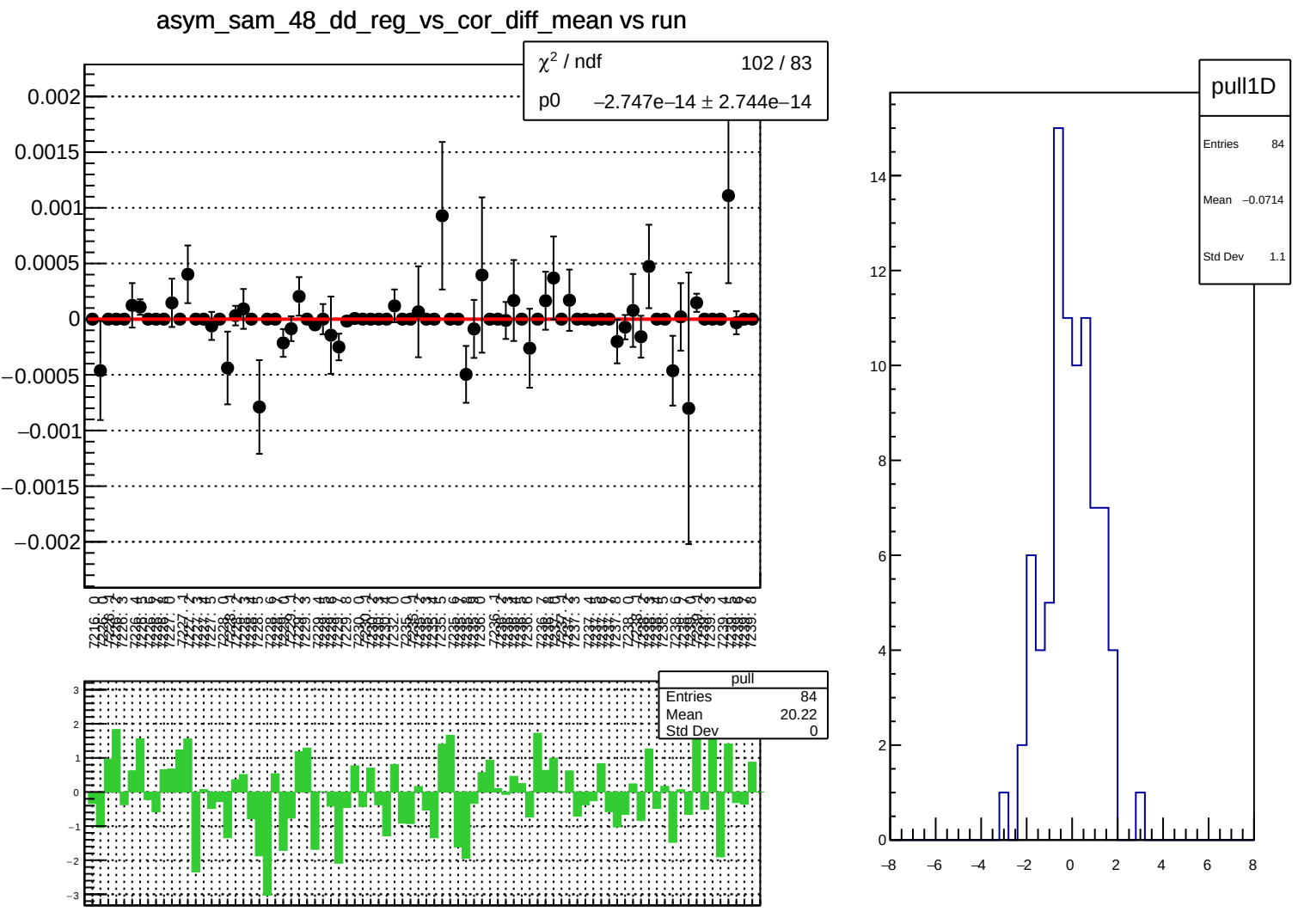

pull1D
Entries 84
Mean −0.01
Std Dev 0.9326
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

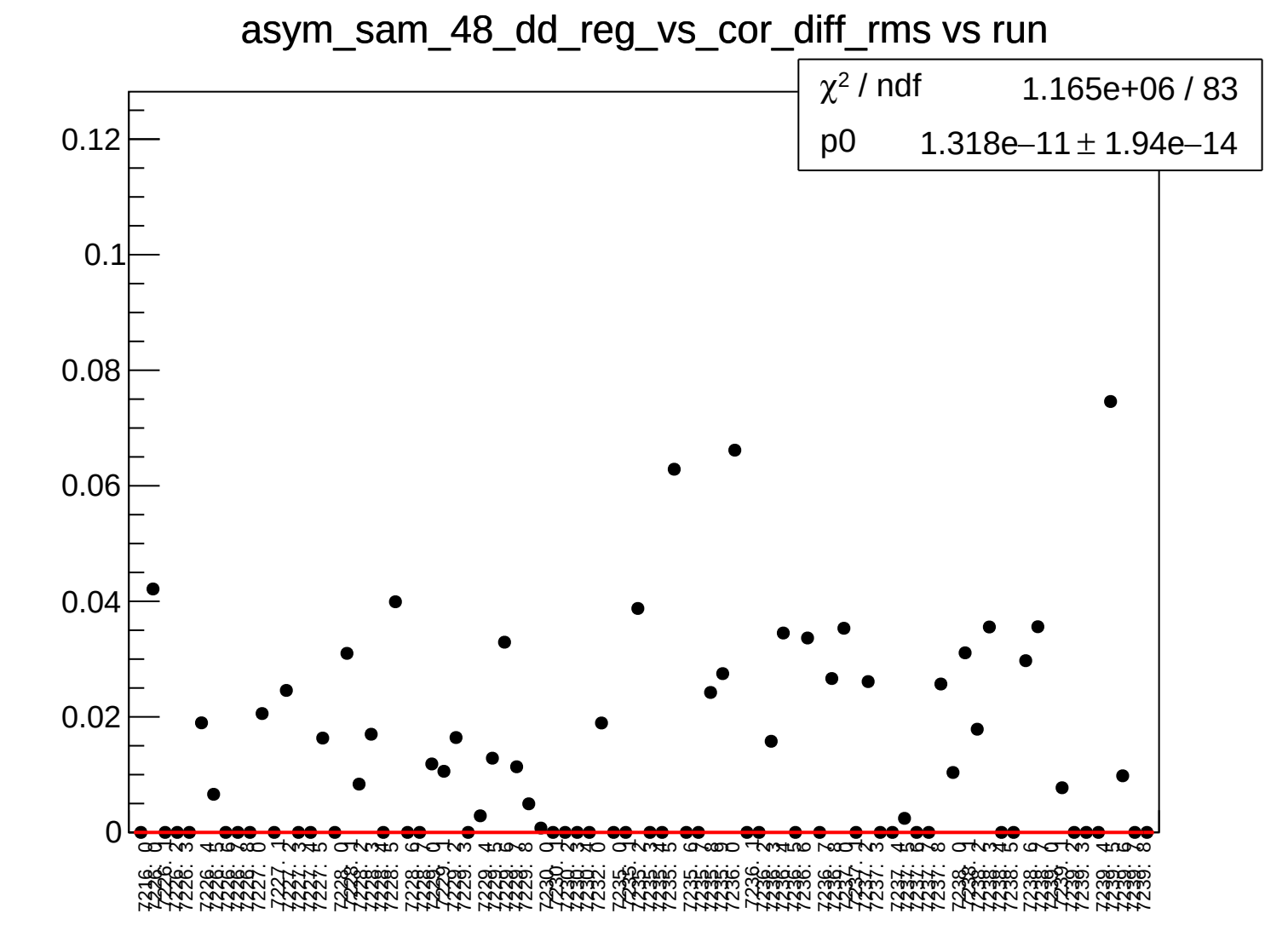

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 2320 / 83
p0 782.3 ± 0.6139
880
860
840
820
800
780
760
740
720
700

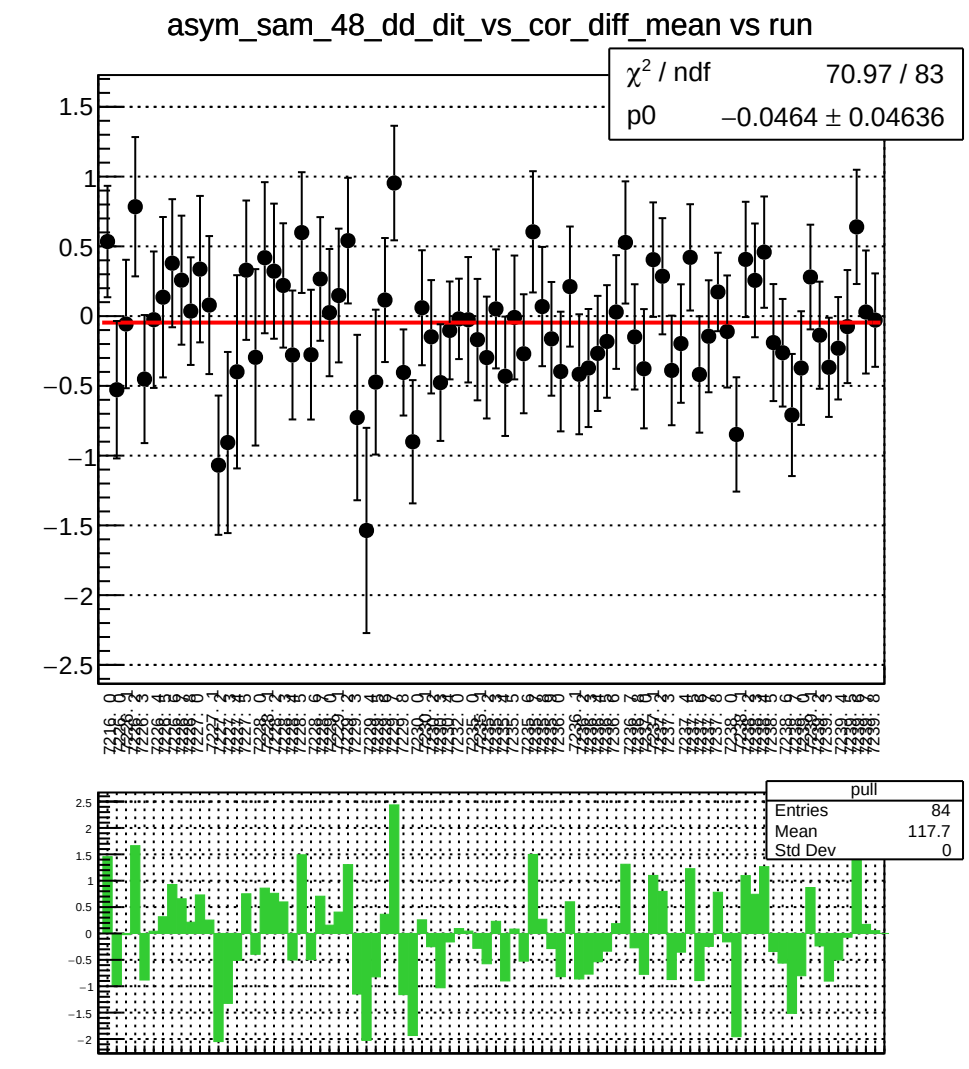

asym_sam_48_dd_mean vs run
χ² / ndf 76.03 / 83
p0 155.1 ± 860.5
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −250.7
Std Dev 0
1
0
−1
−2
−3

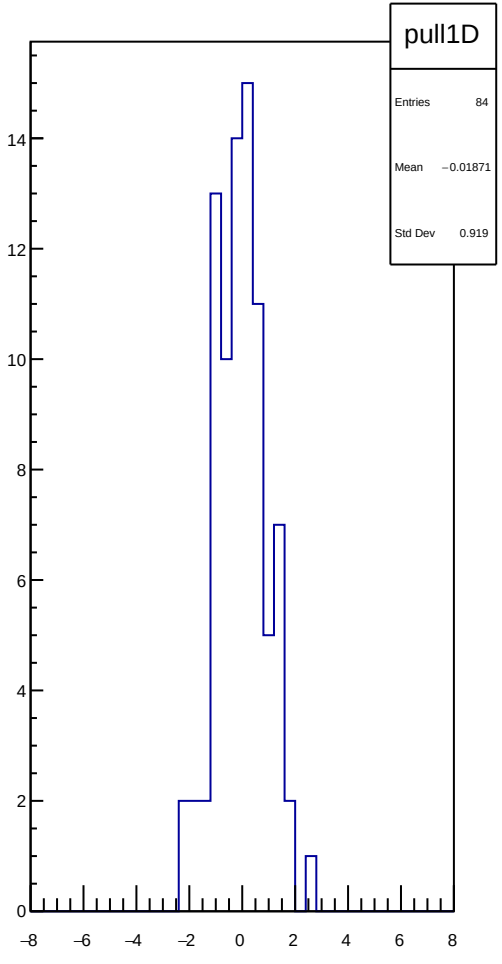

pull1D
Entries 84
Mean 0.005145
Std Dev 0.9514
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

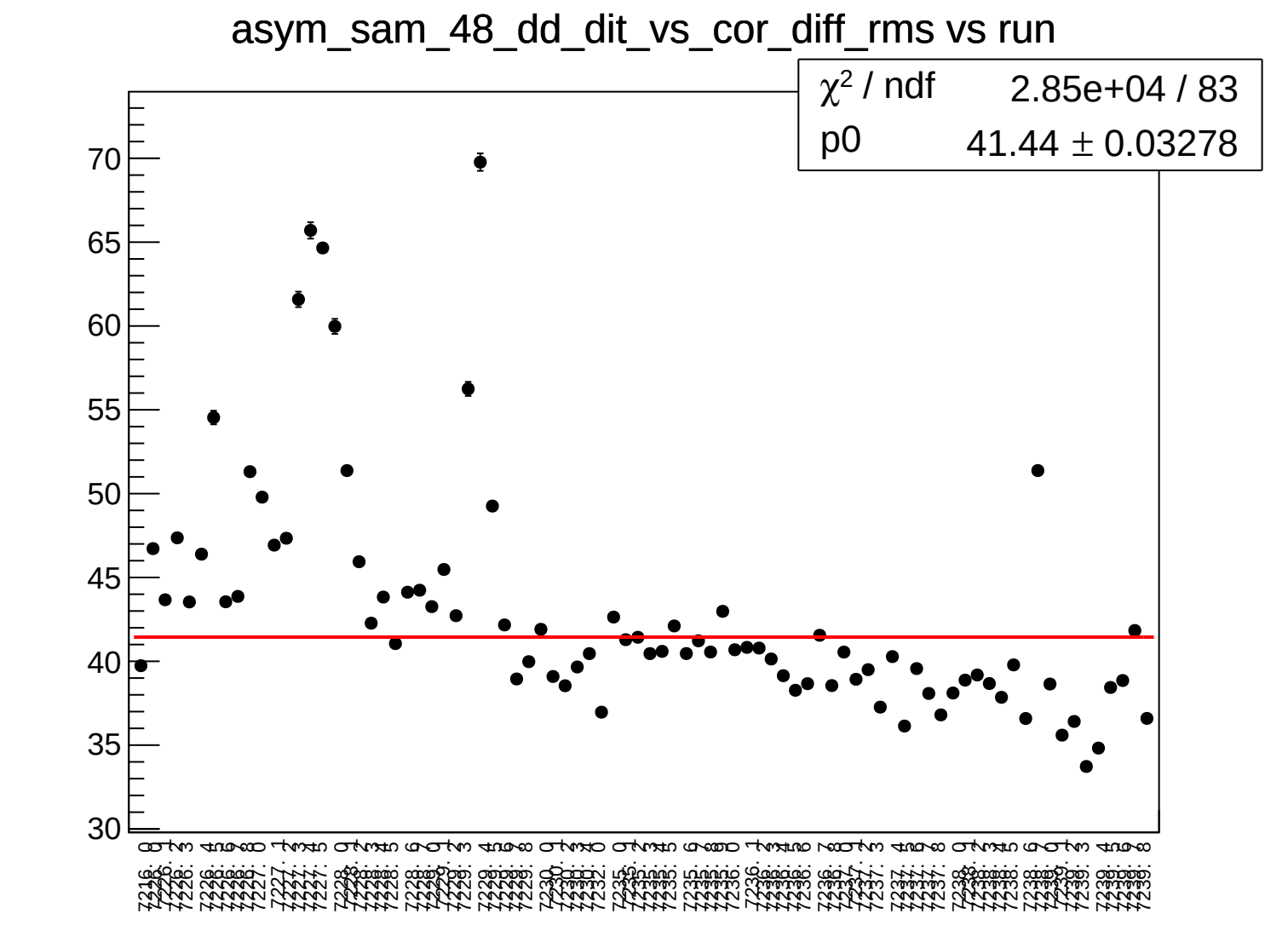

asym_sam_48_dd_rms vs run
χ^2 / ndf 2998 / 83
p0 775.3 ± 0.6084
880
860
840
820
800
780
760
740
720
700
680

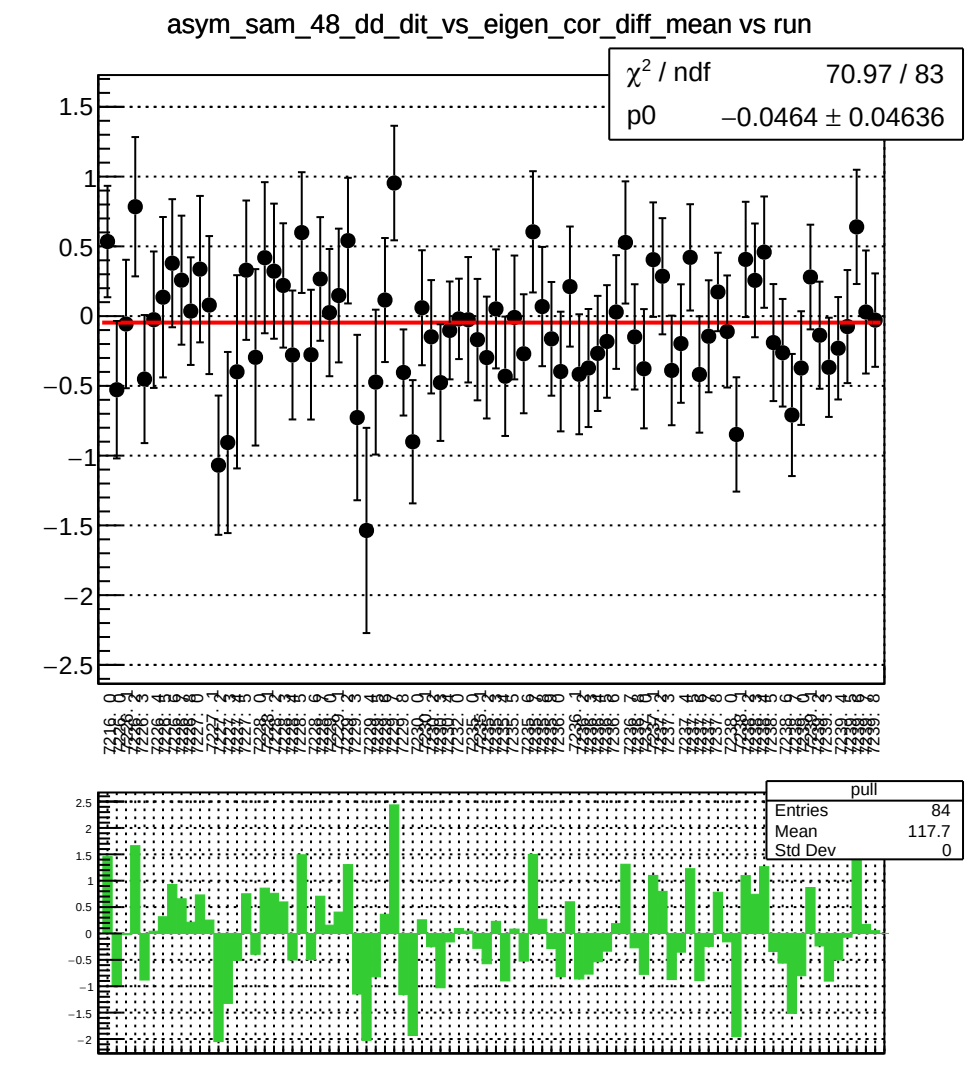

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 102 / 83
p0 −2.747e−14 ± 2.744e−14
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 84
Mean 20.22
Std Dev 0
pull1D
Entries 84
Mean −0.0714
Std Dev 1.1

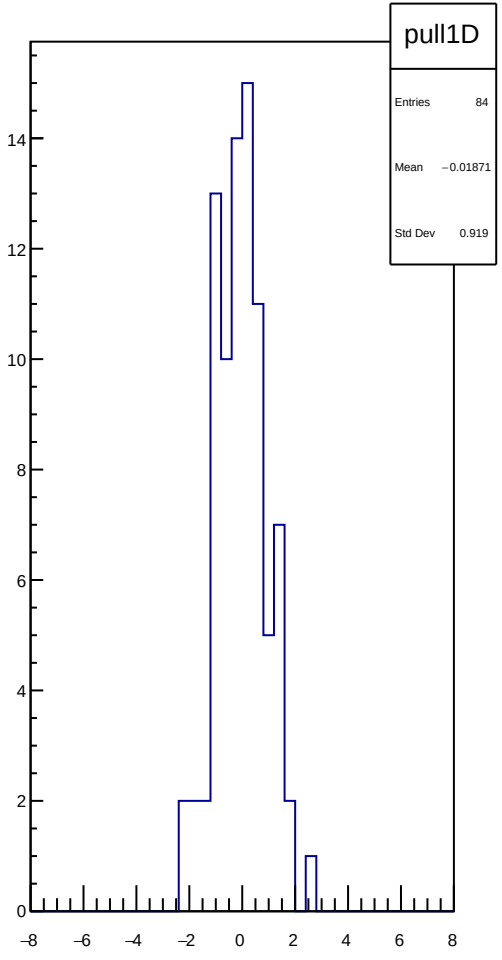

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.165e+06 / 83
p0 1.318e−11 ± 1.94e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

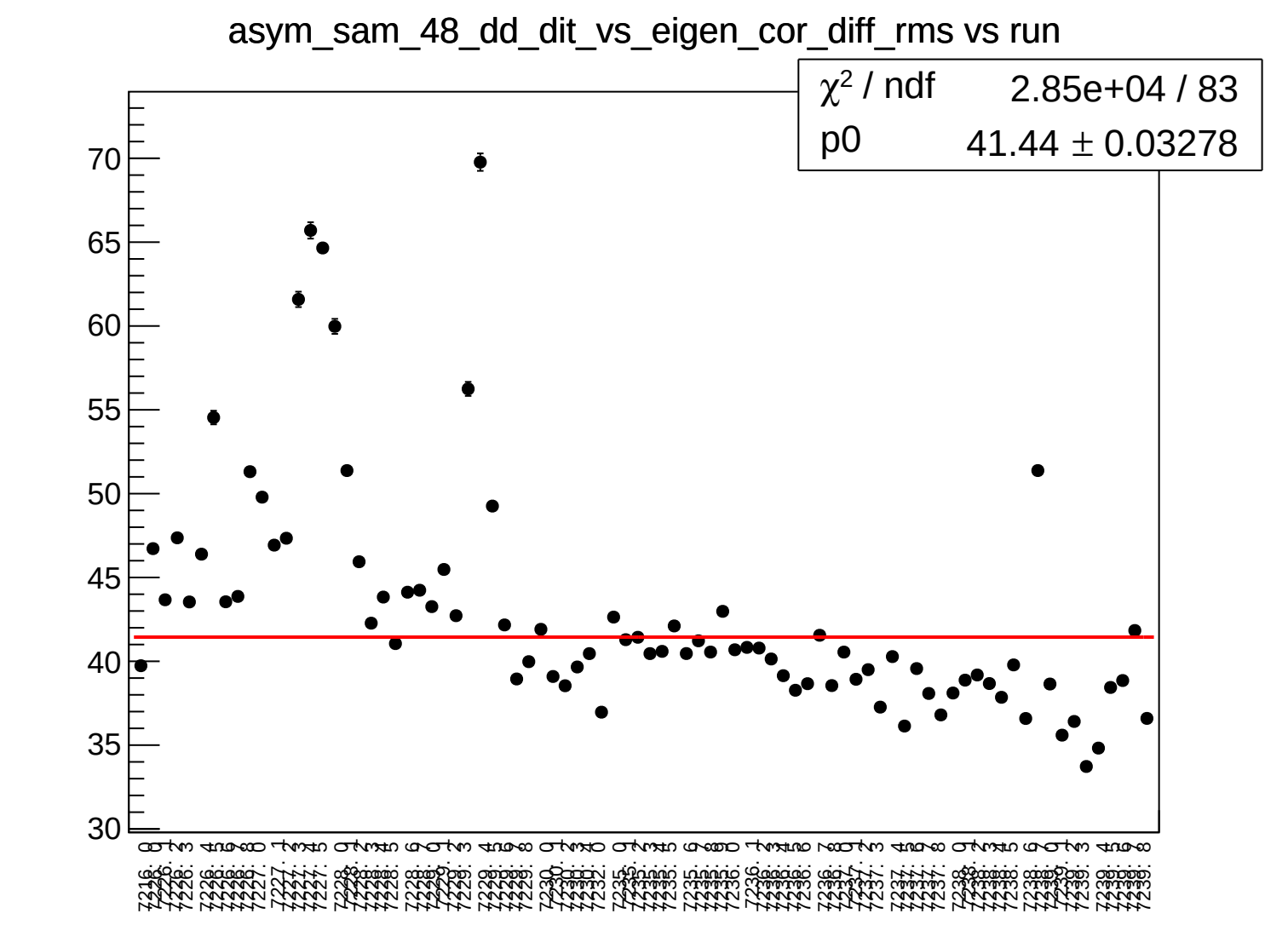

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 70.97 / 83
p0 −0.0464 ± 0.04636
pull
Entries 84
Mean 117.7
Std Dev 0

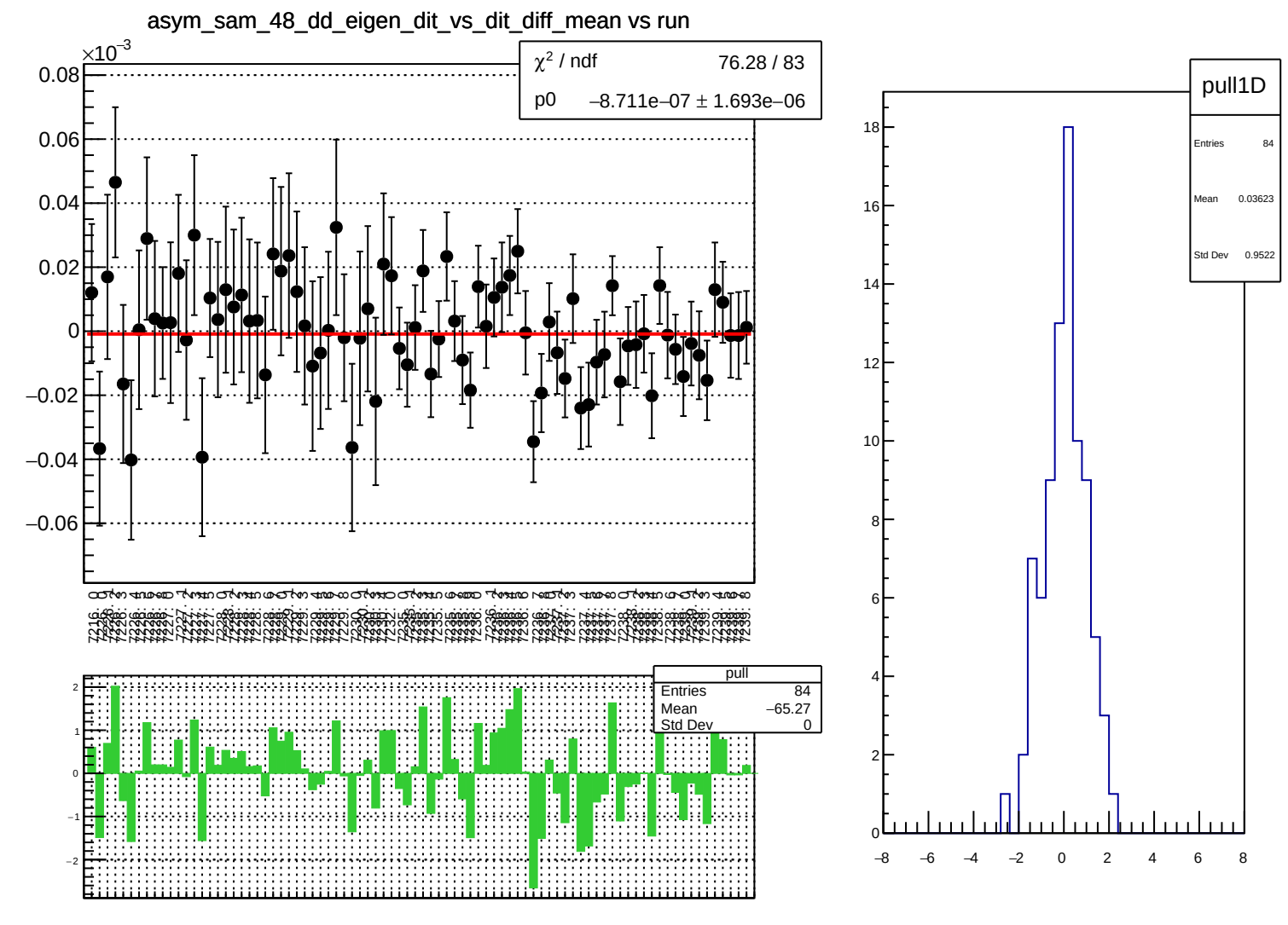

pull1D
Entries 84
Mean −0.01871
Std Dev 0.919

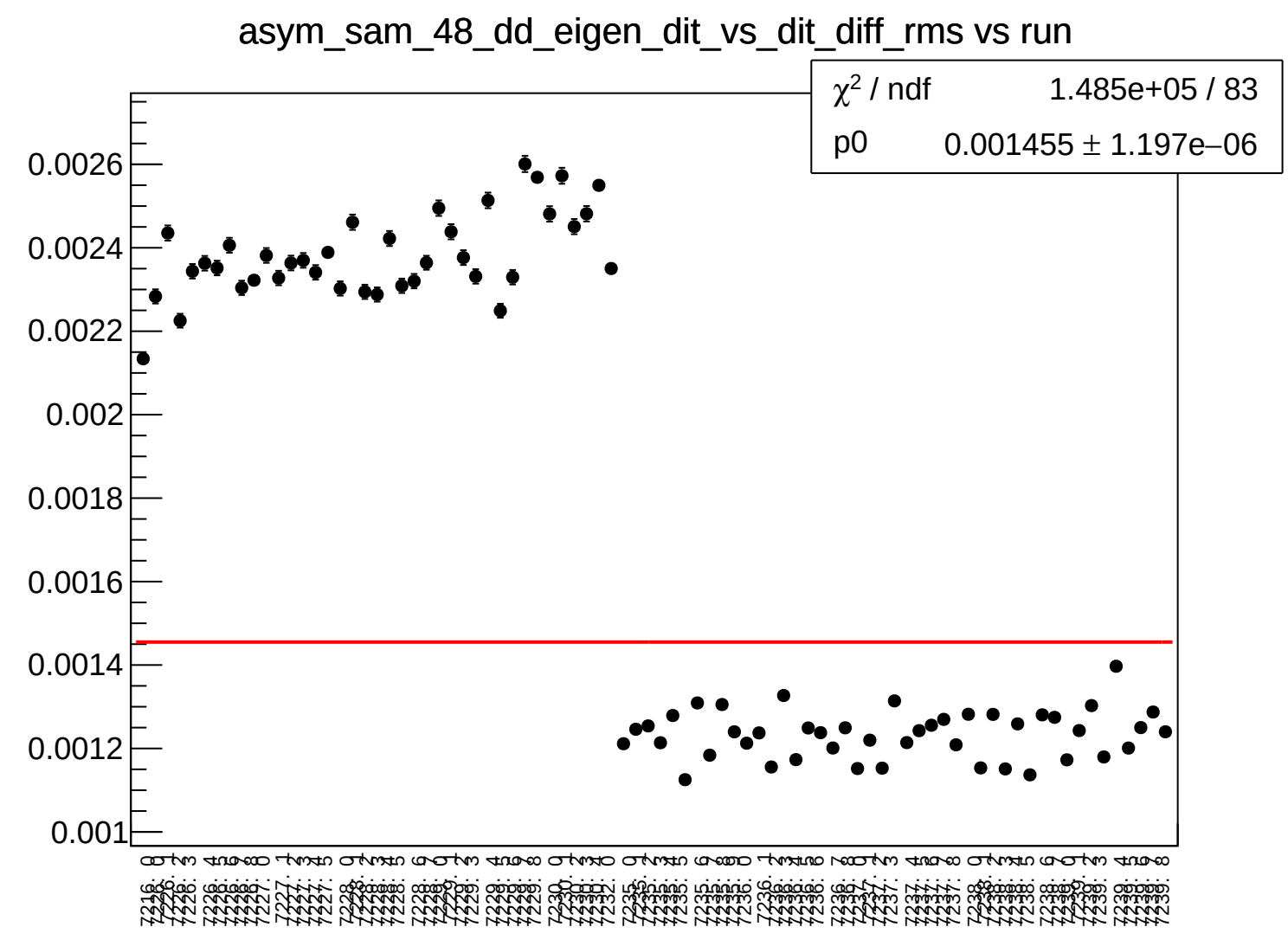

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.85e+04 / 83
p0 41.44 ± 0.03278
70
65
60
55
50
45
40
35
30

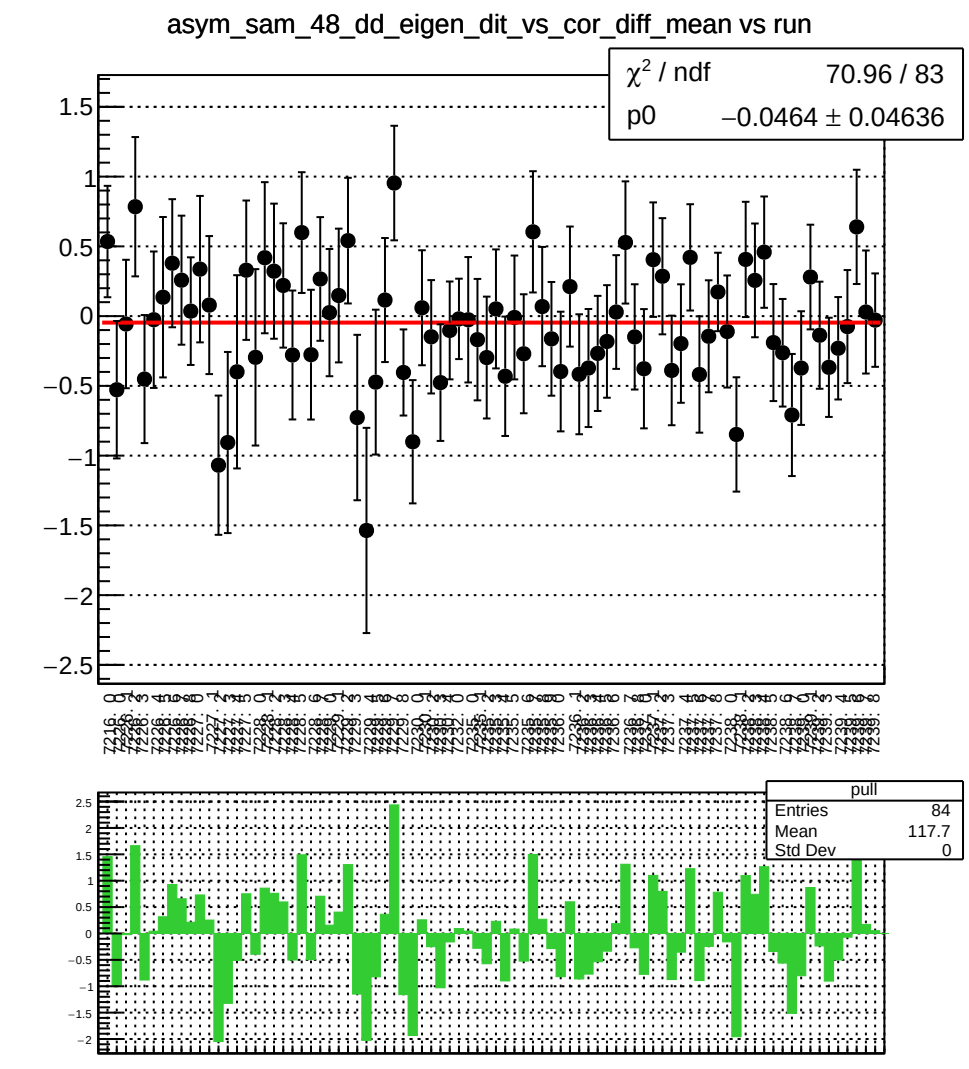

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.97 / 83
p0 −0.0464 ± 0.04636
pull
Entries 84
Mean 117.7
Std Dev 0

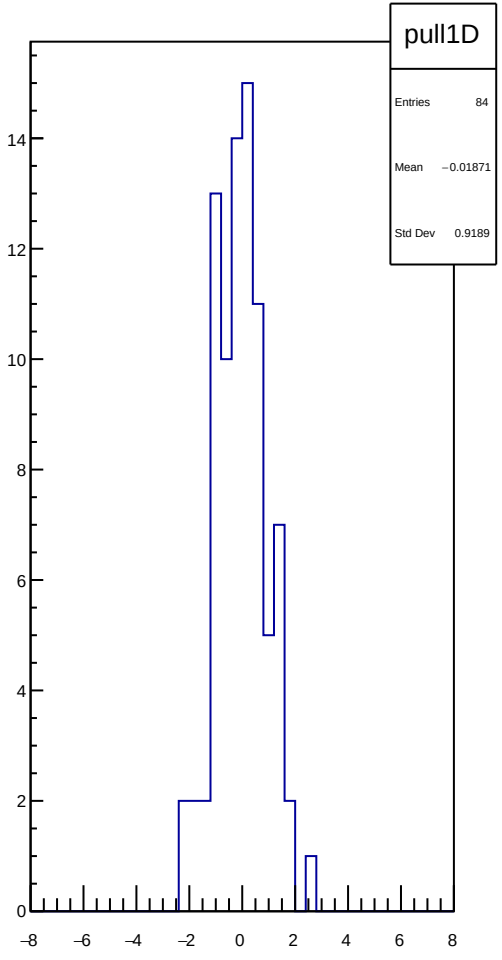

pull1D
Entries 84
Mean −0.01871
Std Dev 0.919

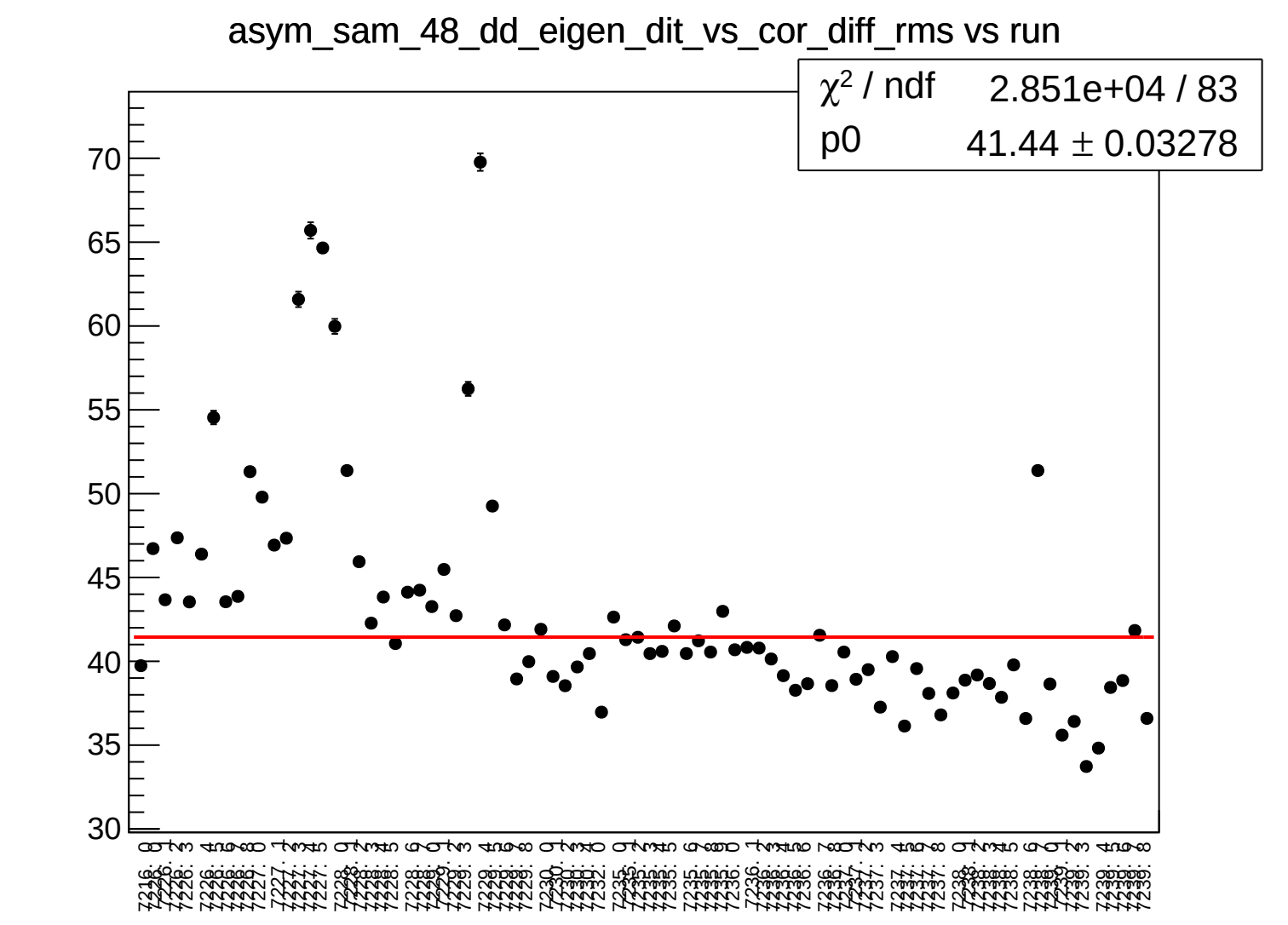

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.85e+04 / 83
p0 41.44 ± 0.03278
70
65
60
55
50
45
40
35
30

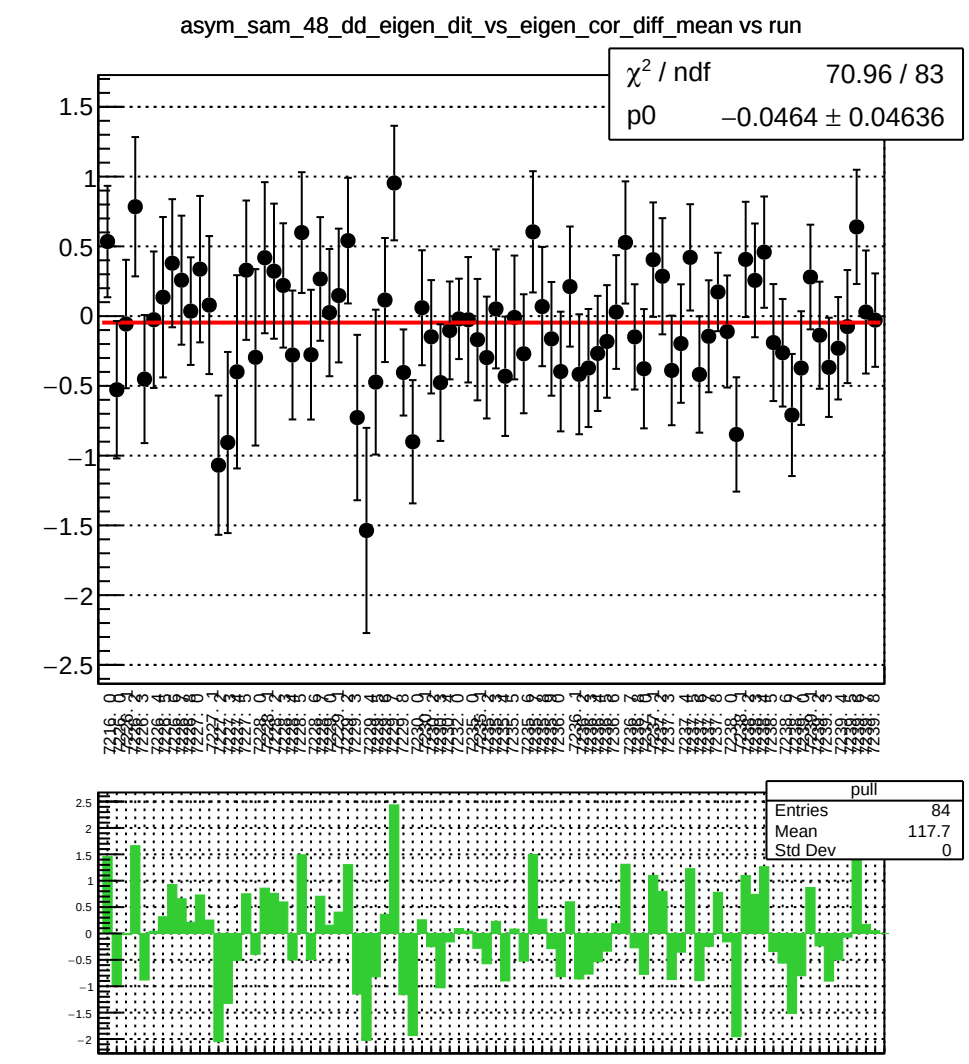

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.28 / 83
p0 −8.711e−07 ± 1.693e−06
pull
Entries 84
Mean −65.27
Std Dev 0
pull1D
Entries 84
Mean 0.03623
Std Dev 0.9522

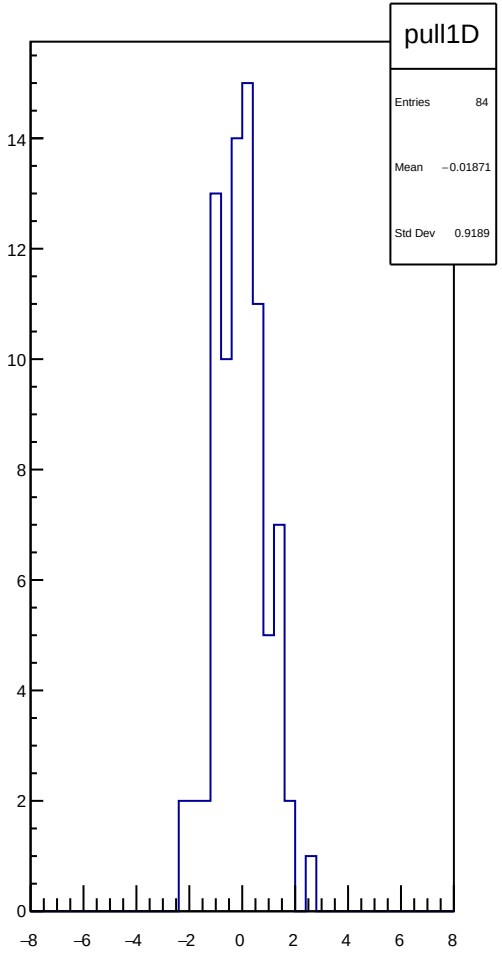

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.485e+05 / 83
p0 0.001455 ± 1.197e−06
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001

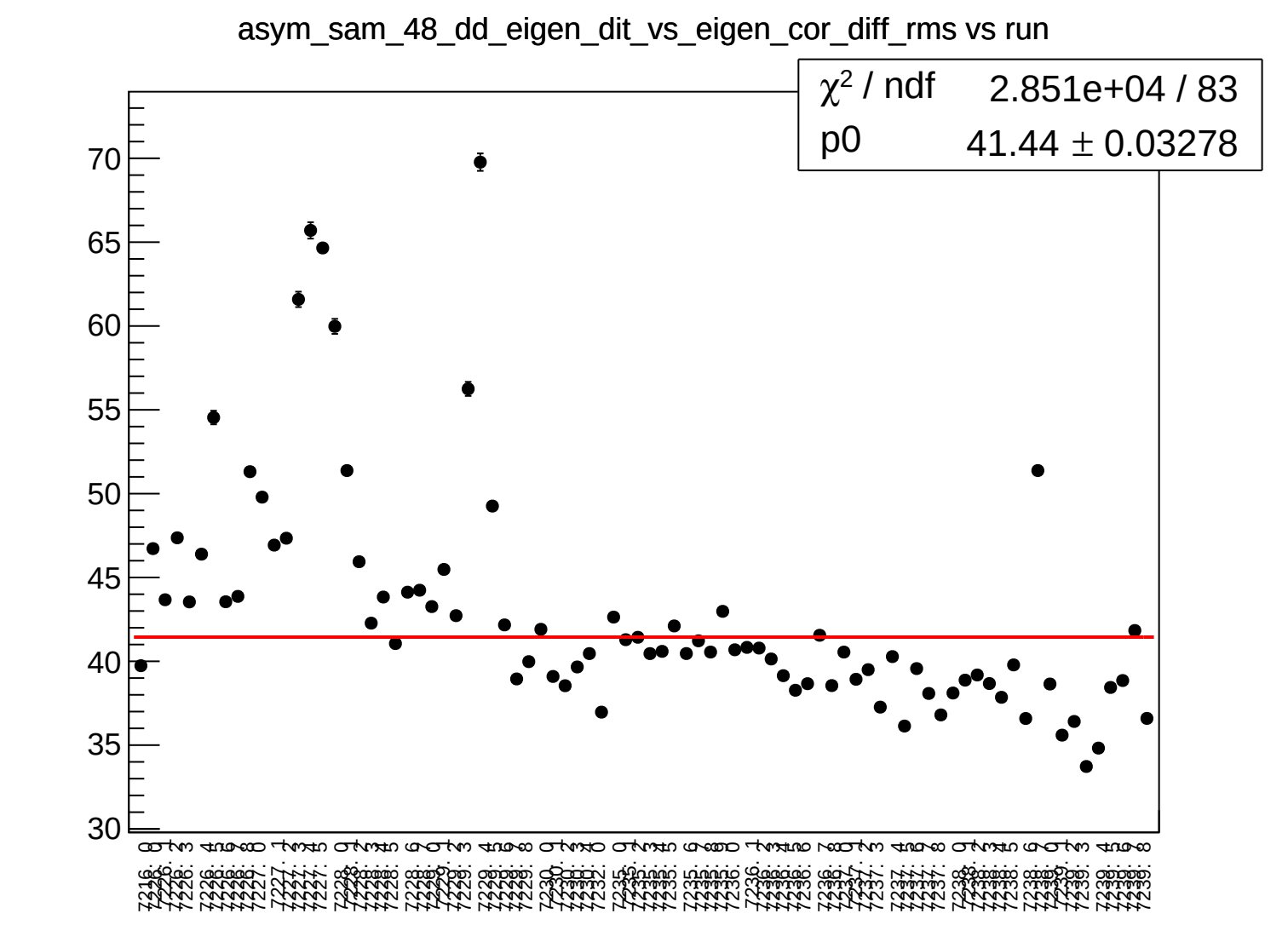

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 70.96 / 83
p0 −0.0464 ± 0.04636
pull
Entries 84
Mean 117.7
Std Dev 0

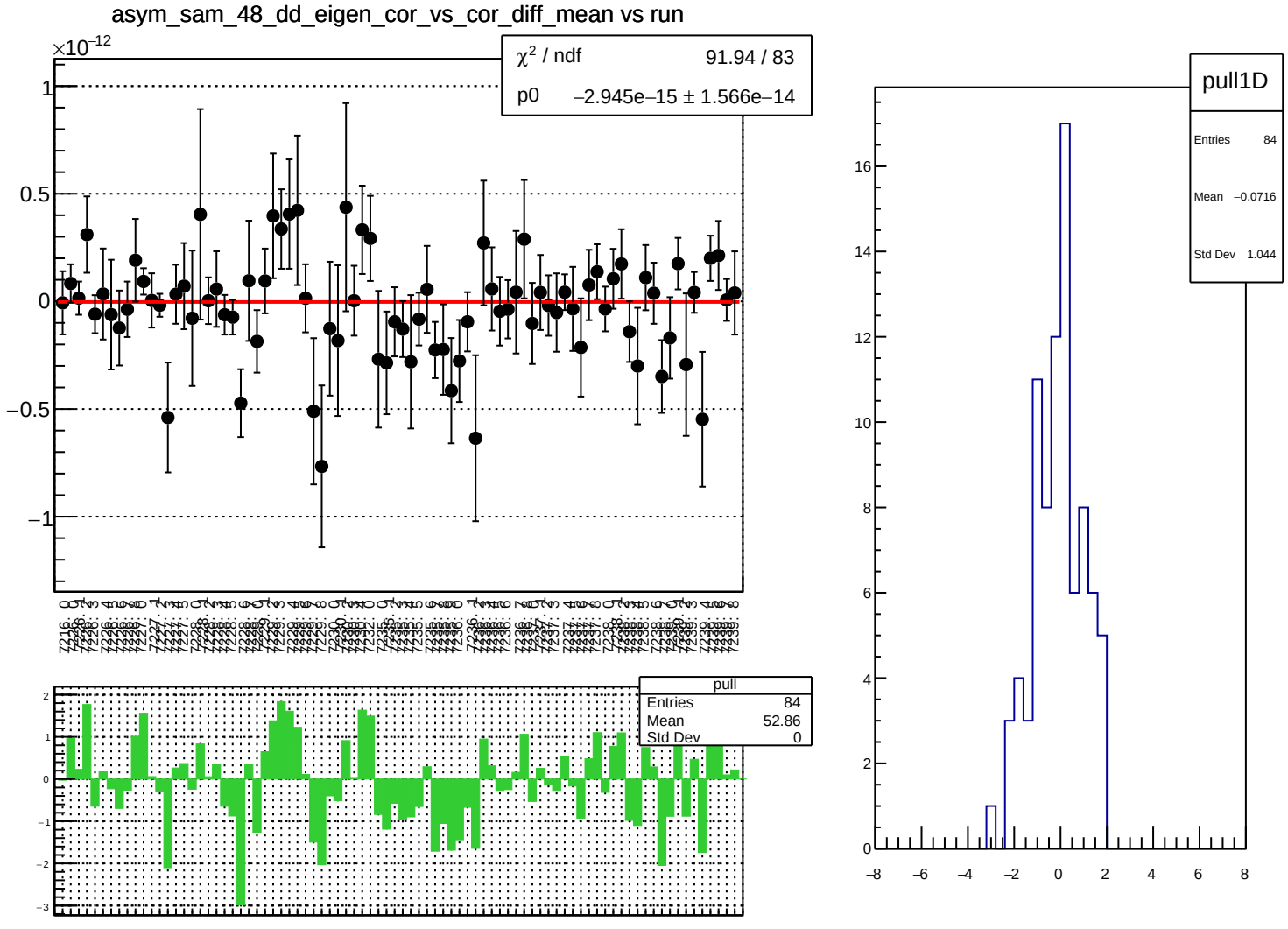

pull1D
Entries 84
Mean −0.01871
Std Dev 0.9189

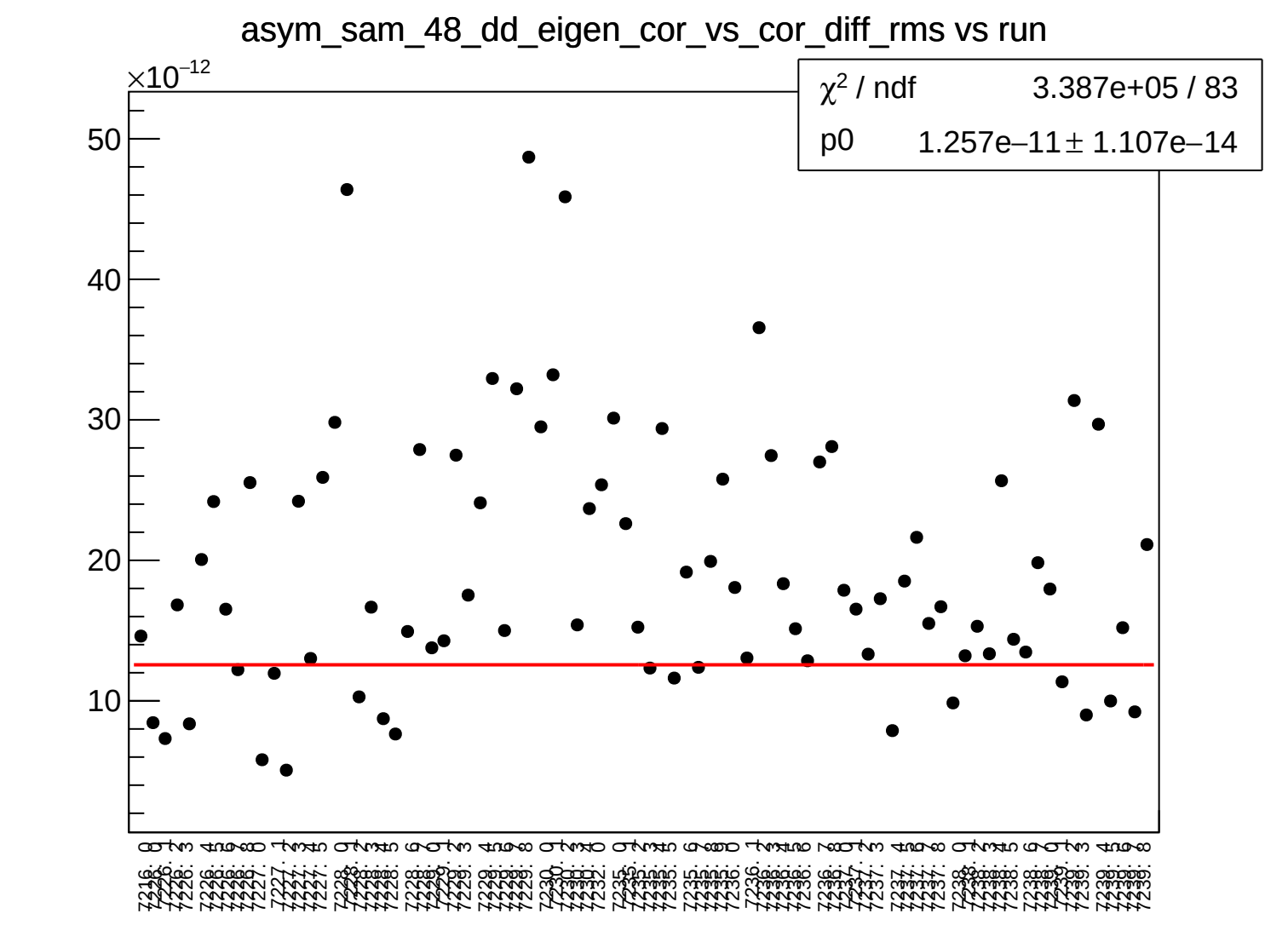

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.851e+04 / 83
p0 41.44 ± 0.03278
70
65
60
55
50
45
40
35
30

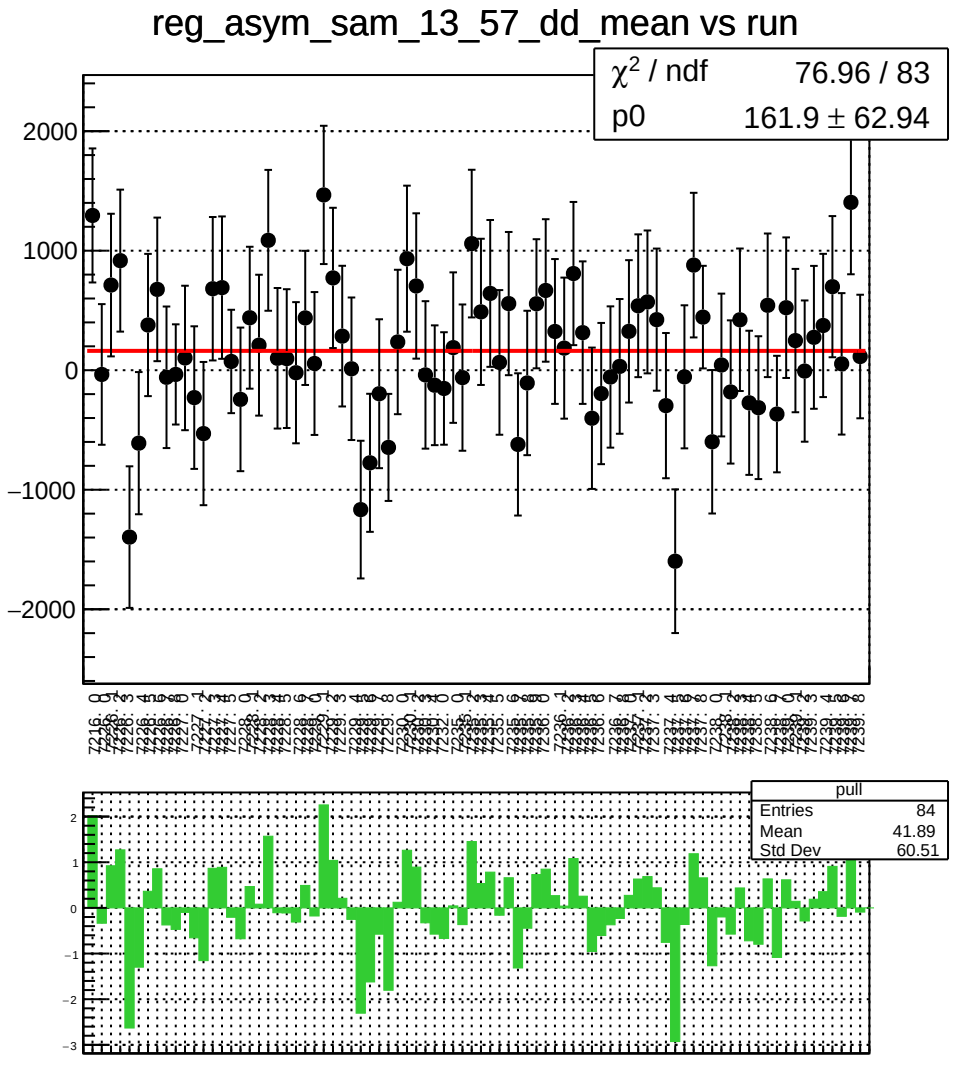

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.96 / 83
p0 −0.0464 ± 0.04636
pull
Entries 84
Mean 117.7
Std Dev 0

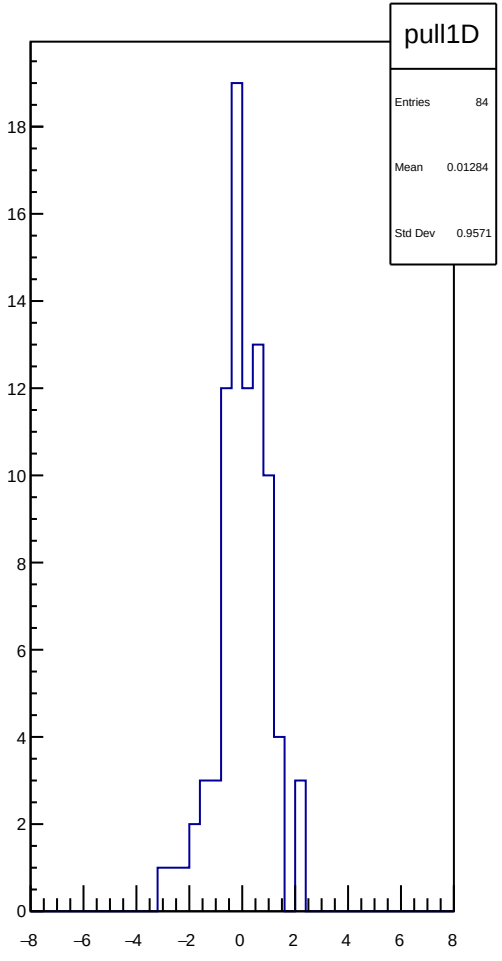

pull1D
Entries 84
Mean −0.01871
Std Dev 0.9189

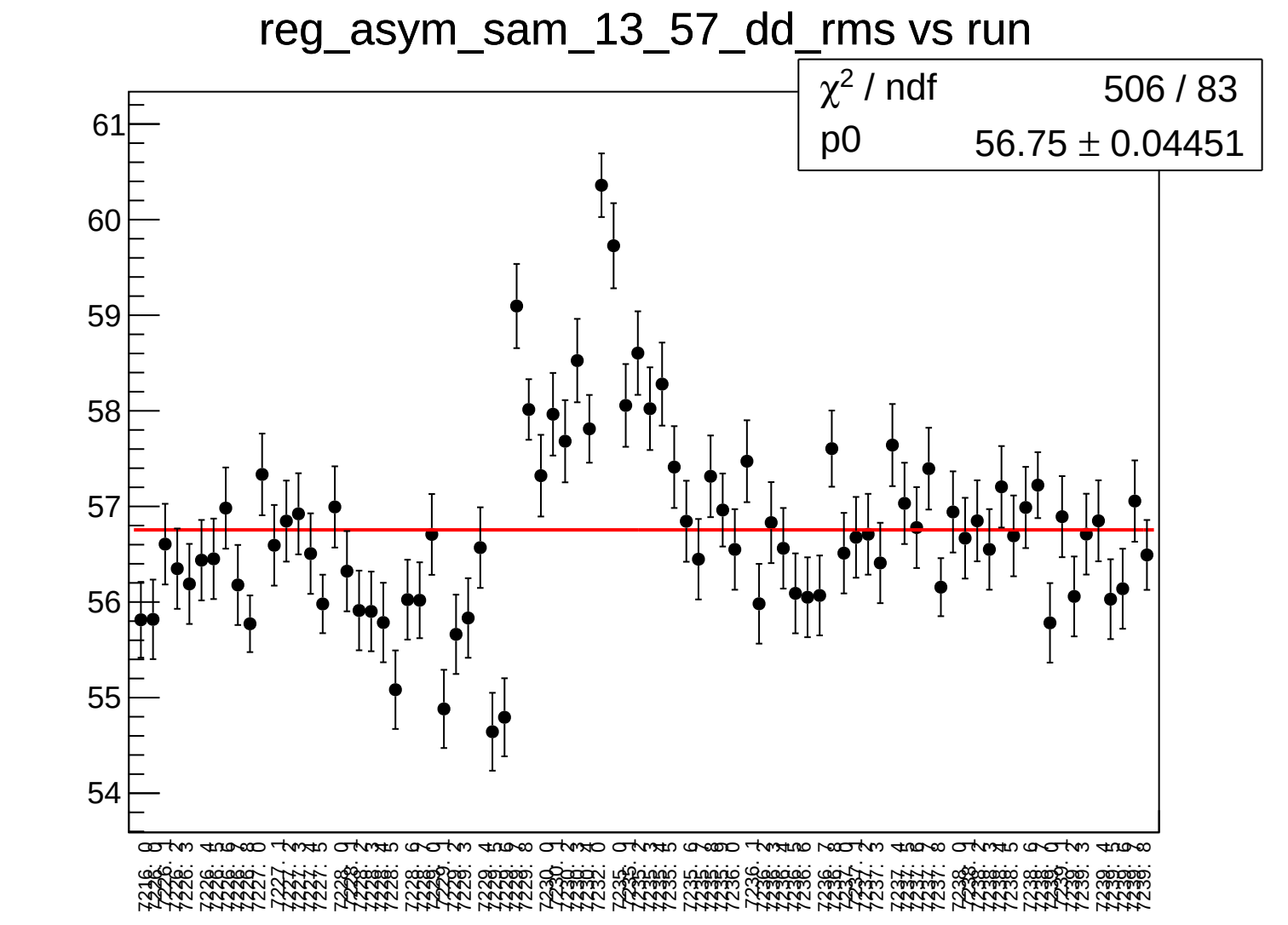

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.851e+04 / 83
p0 41.44 ± 0.03278
70
65
60
55
50
45
40
35
30

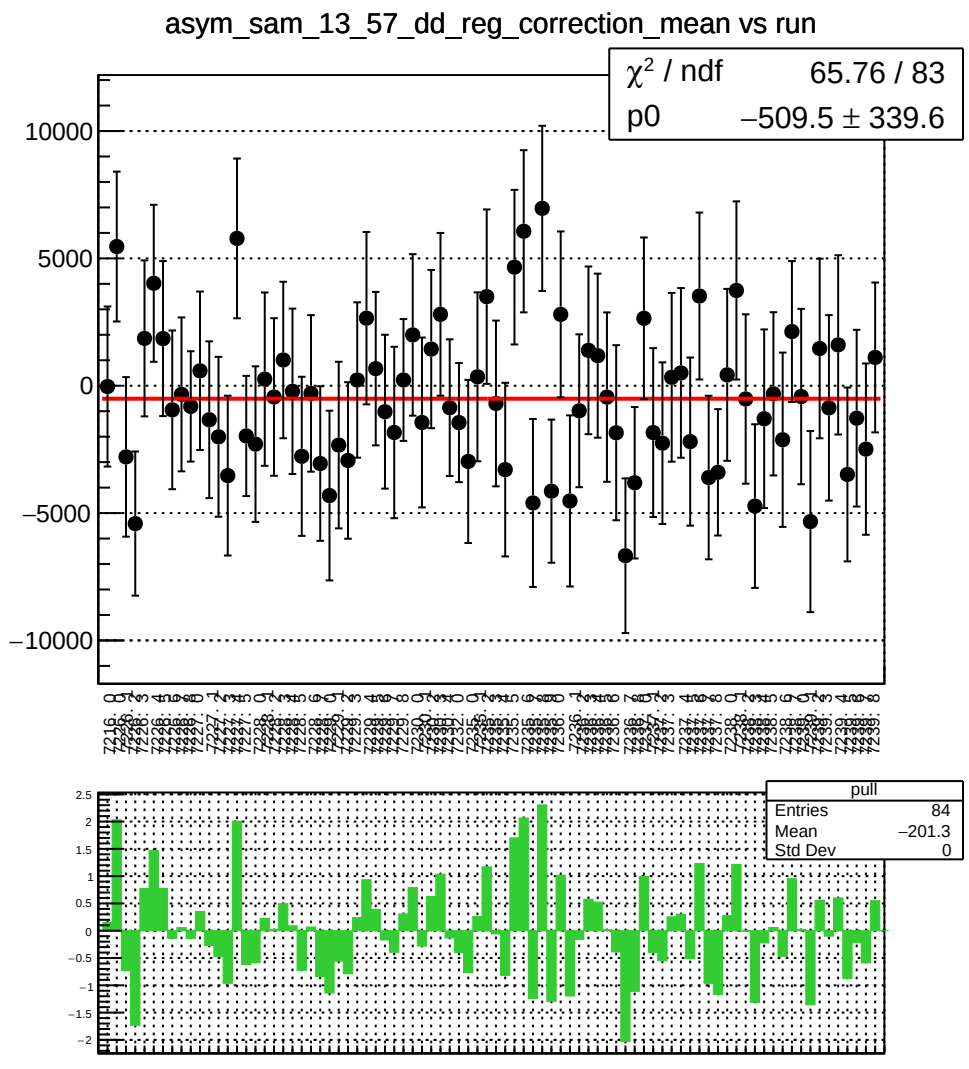

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.94 / 83
p0 −2.945e−15 ± 1.566e−14
pull
Entries 84
Mean 52.86
Std Dev 0
pull1D
Entries 84
Mean −0.0716
Std Dev 1.044

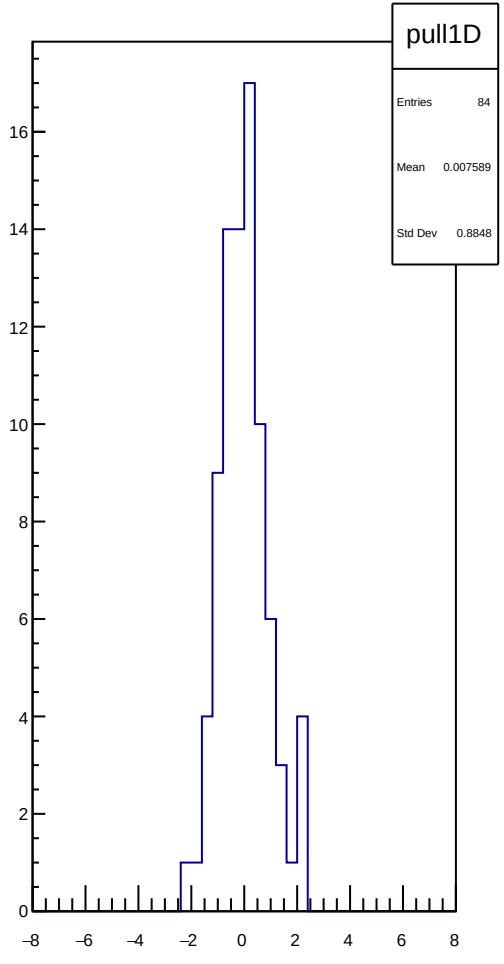

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.387e+05 / 83
p0 1.257e−11 ± 1.107e−14
50
40
30
20
10

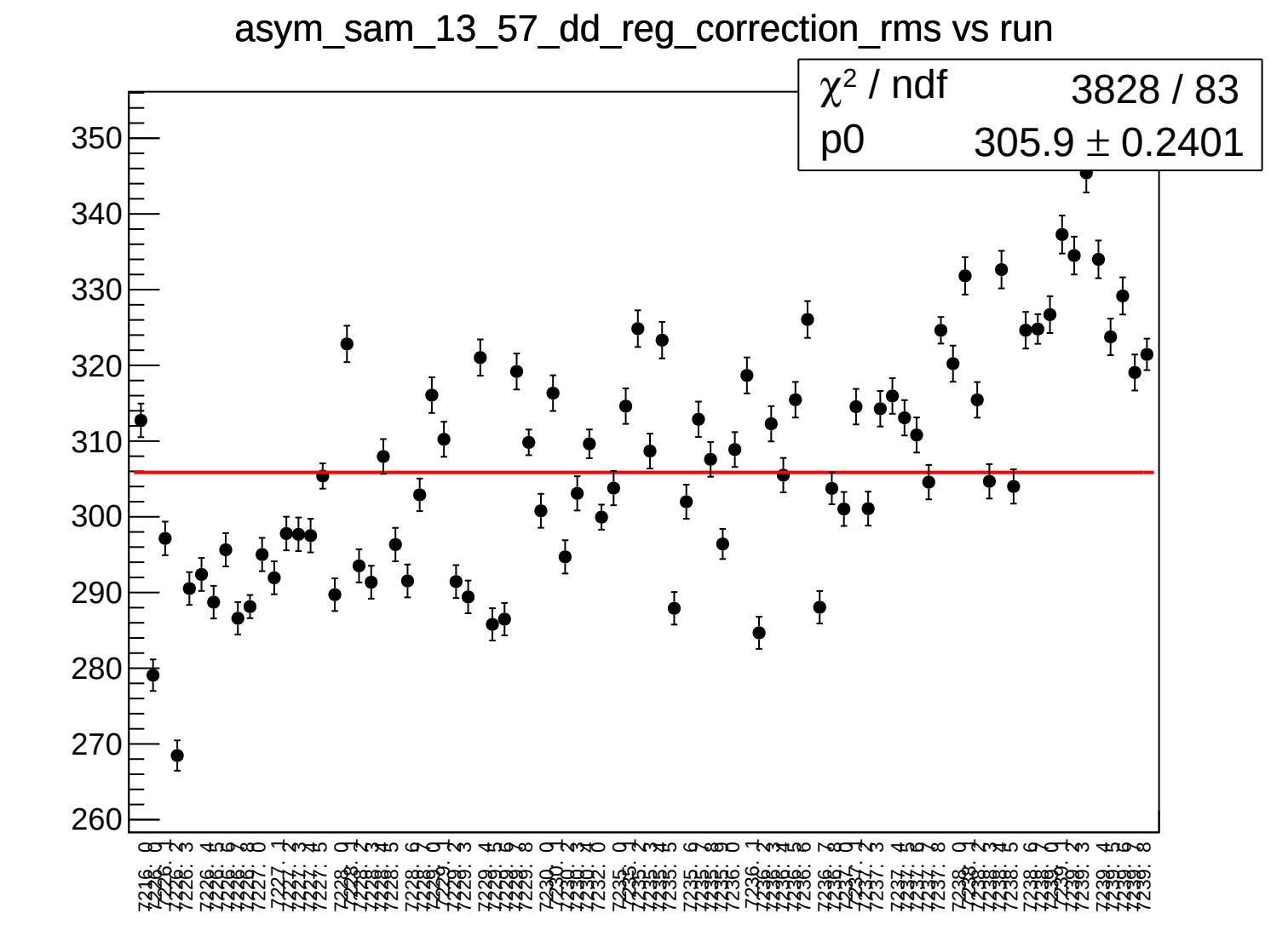

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 76.96 / 83
p0 161.9 ± 62.94
pull
Entries 84
Mean 41.89
Std Dev 60.51

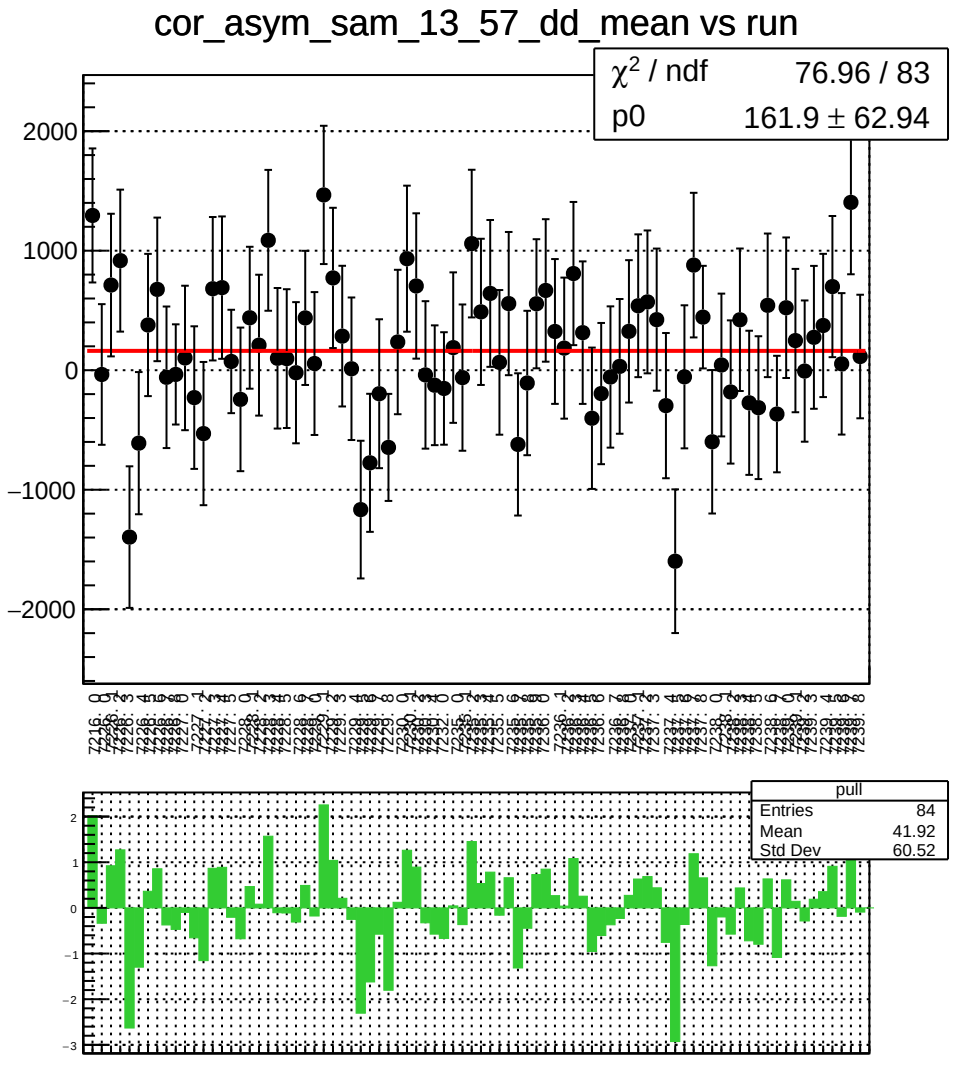

pull1D
Entries 84
Mean 0.01284
Std Dev 0.9571

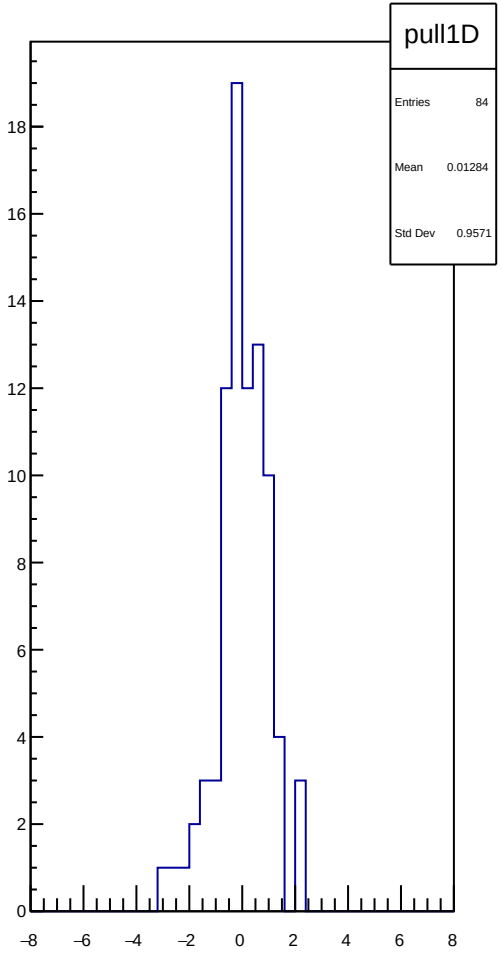

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 506 / 83
p0 56.75 ± 0.04451
61
60
59
58
57
56
55
54

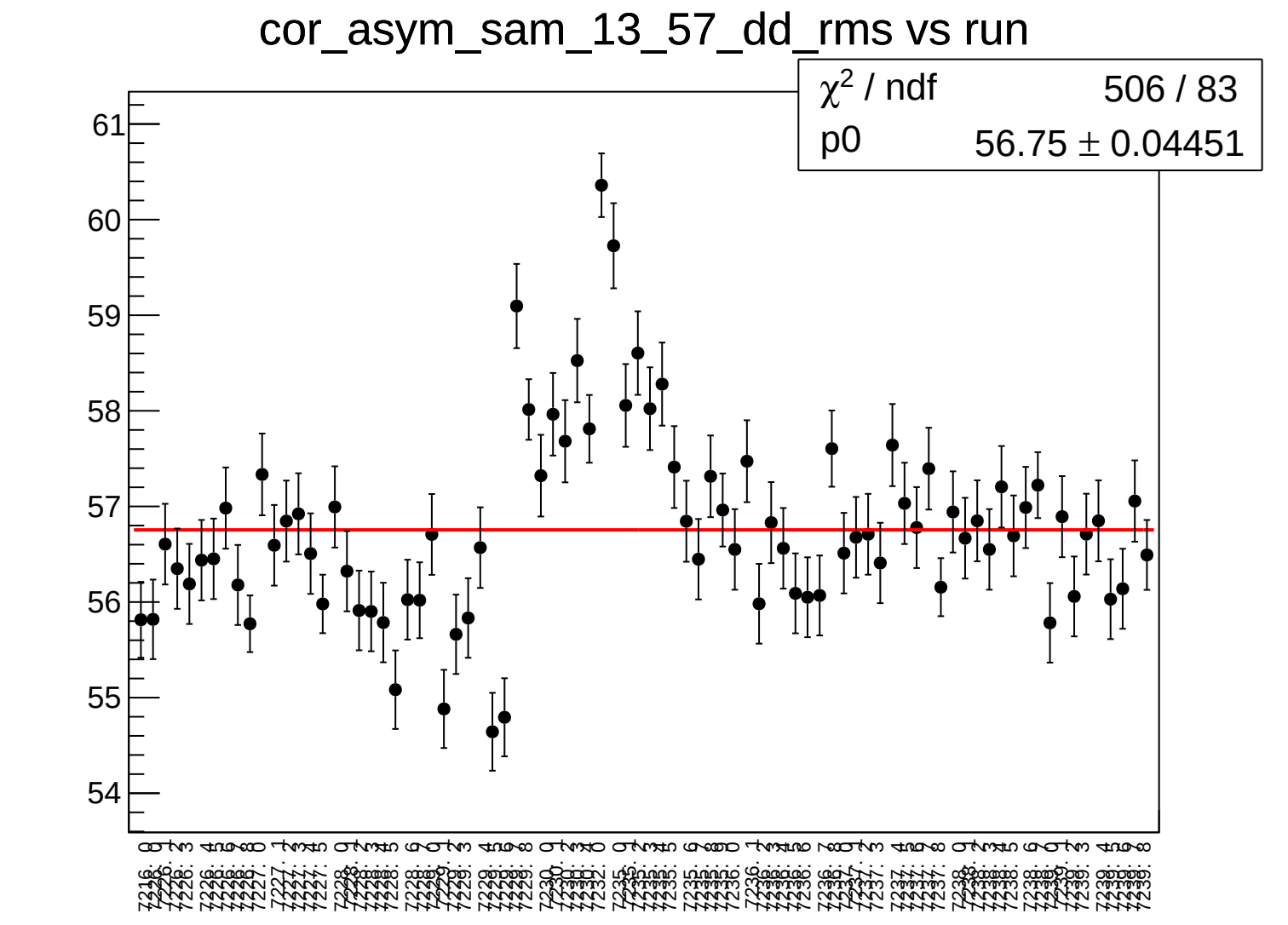

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 65.76 / 83
p0 −509.5 ± 339.6
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −201.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

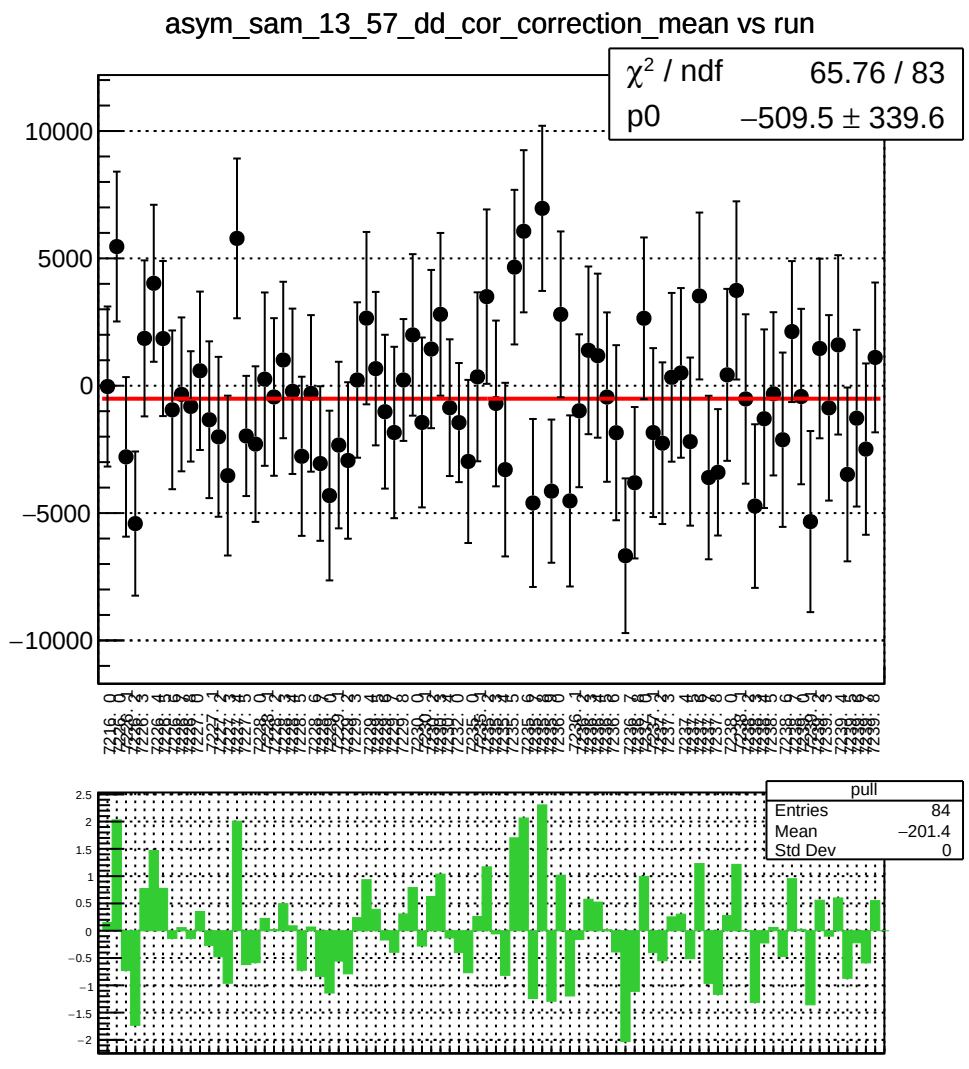

pull1D
Entries 84
Mean 0.007589
Std Dev 0.8848
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

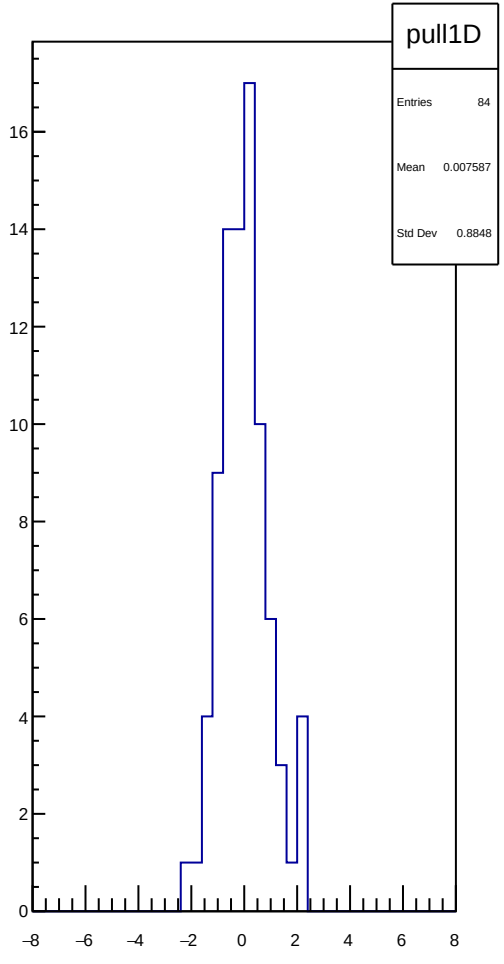

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 3828 / 83
p0 305.9 ± 0.2401
350
340
330
320
310
300
290
280
270
260

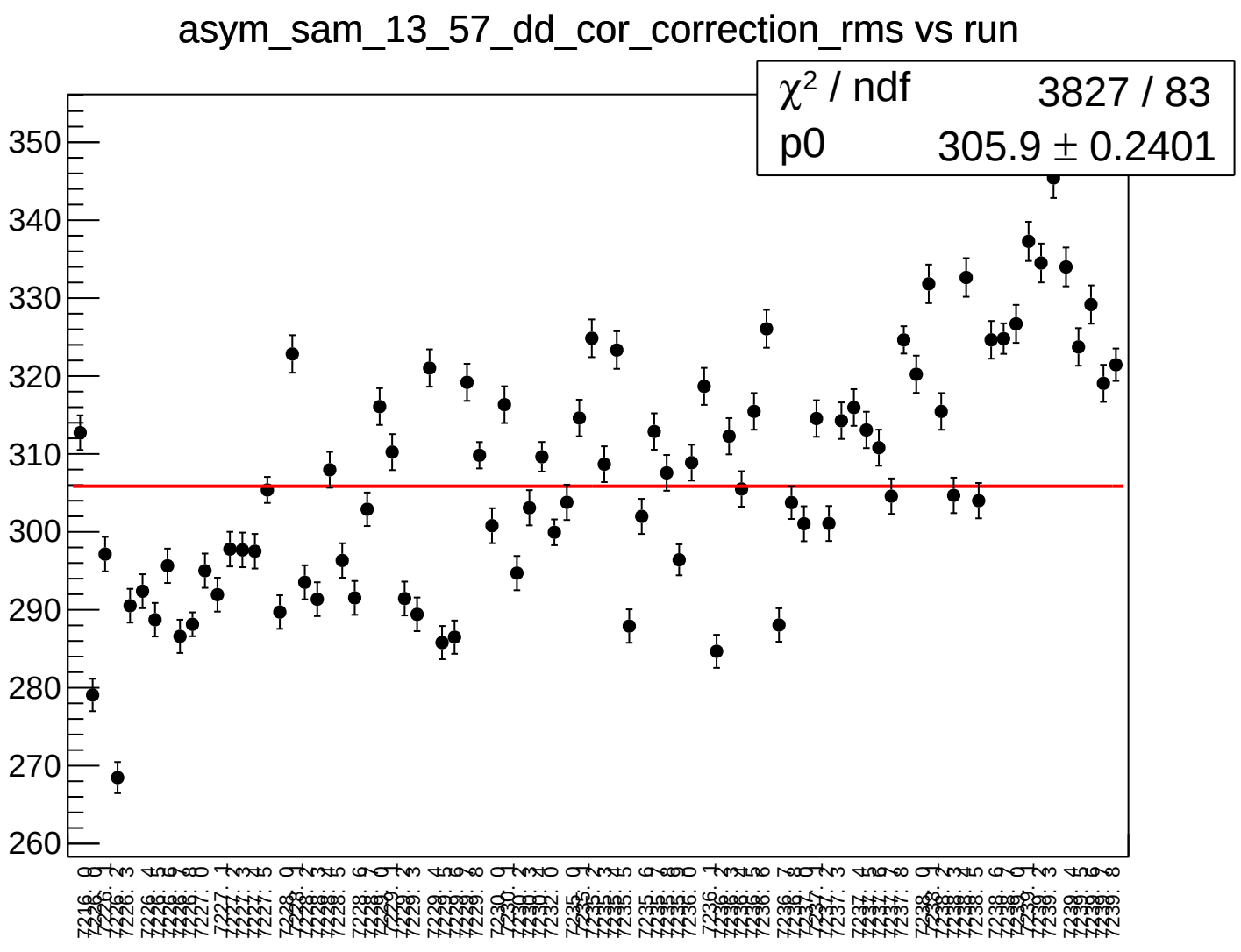

cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 76.96 / 83
p0 161.9 ± 62.94
pull
Entries 84
Mean 41.92
Std Dev 60.52

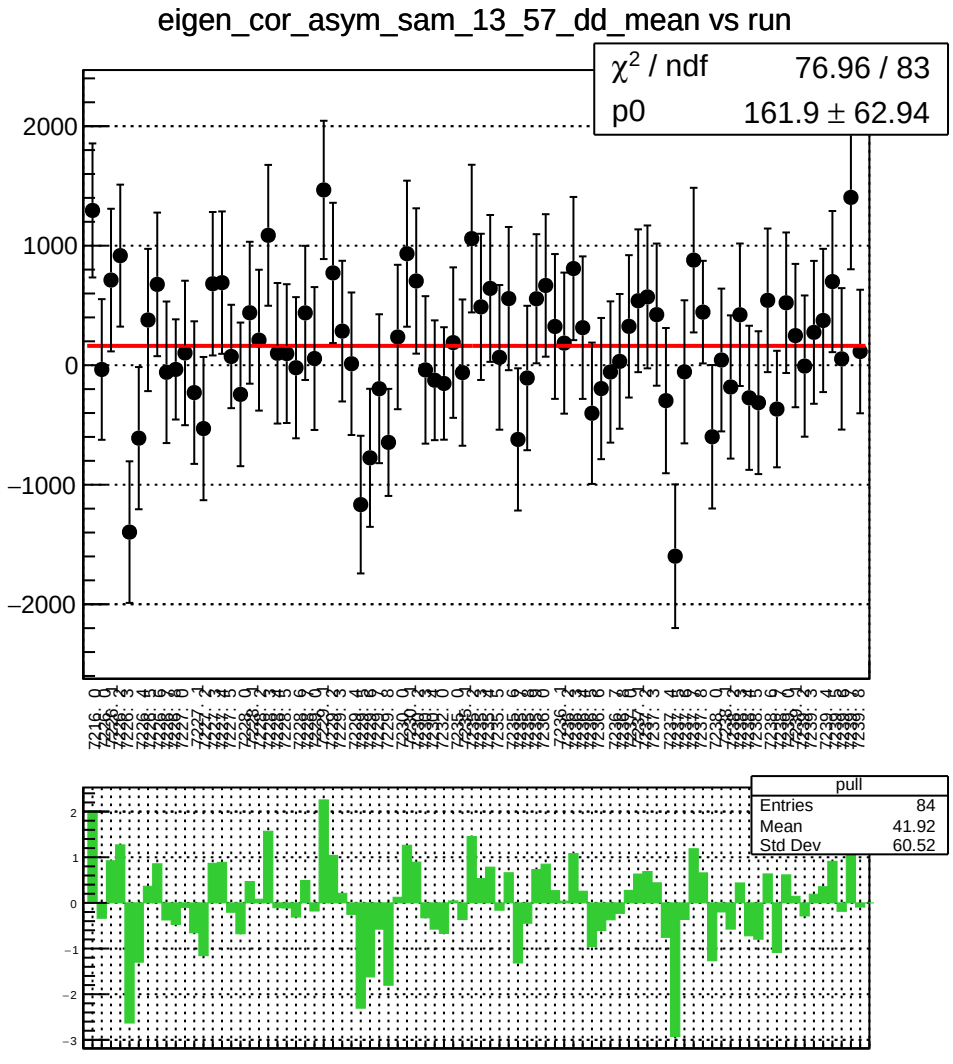

pull1D
Entries 84
Mean 0.01284
Std Dev 0.9571

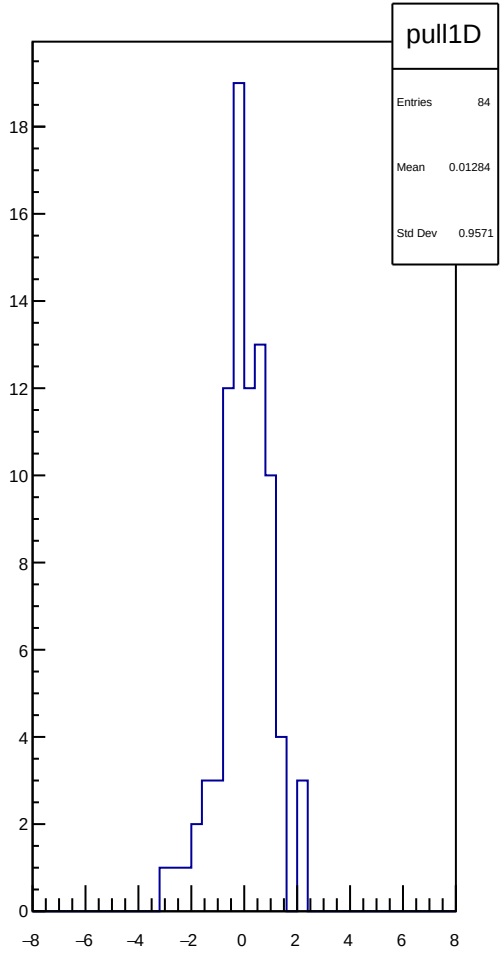

cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 506 / 83
p0 56.75 ± 0.04451
61
60
59
58
57
56
55
54

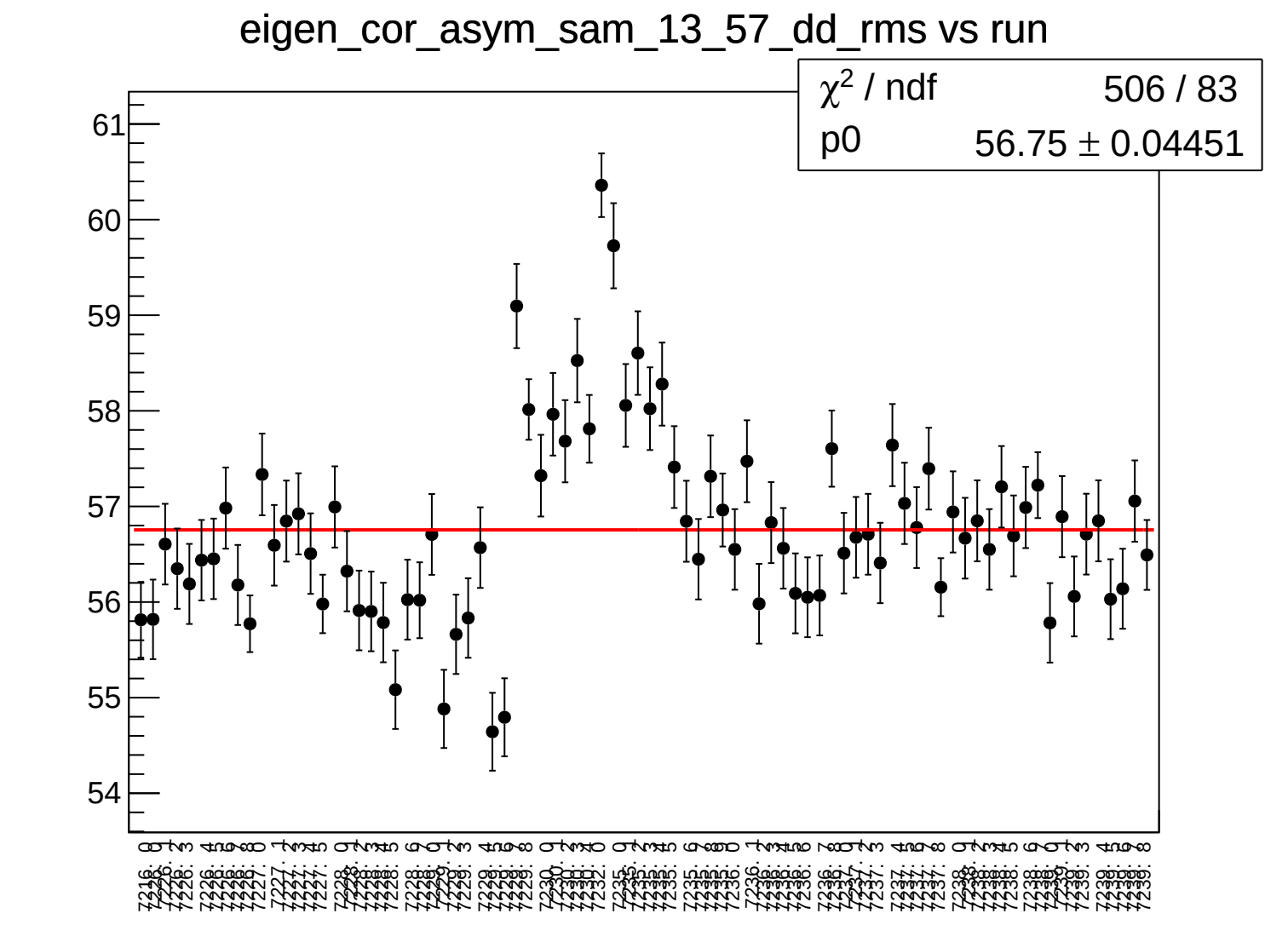

asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 65.76 / 83
p0 −509.5 ± 339.6
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −201.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

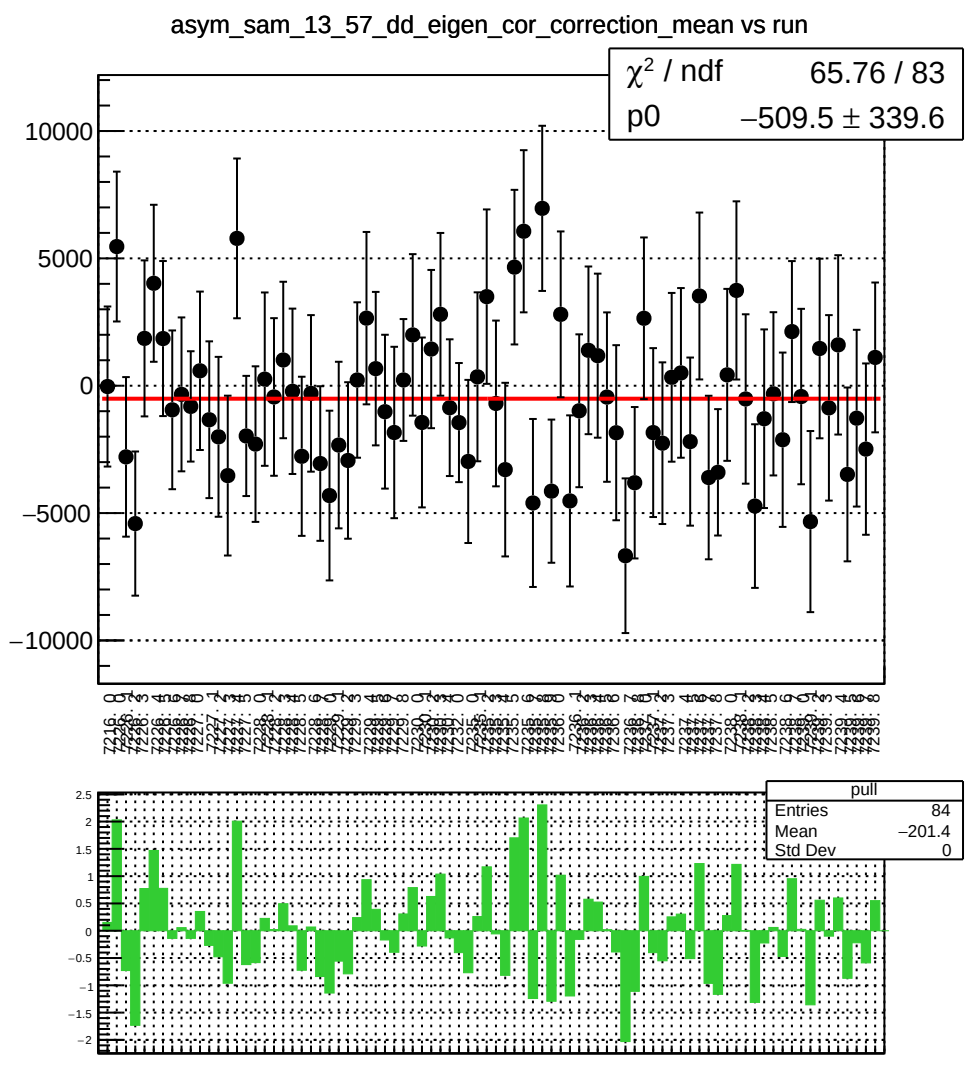

pull1D
Entries 84
Mean 0.007587
Std Dev 0.8848
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

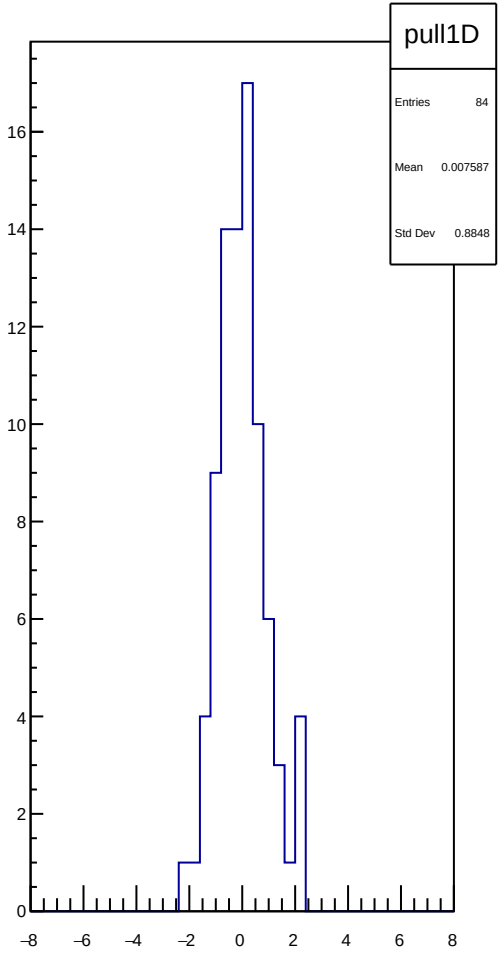

asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 3827 / 83
p0 305.9 ± 0.2401
350
340
330
320
310
300
290
280
270
260

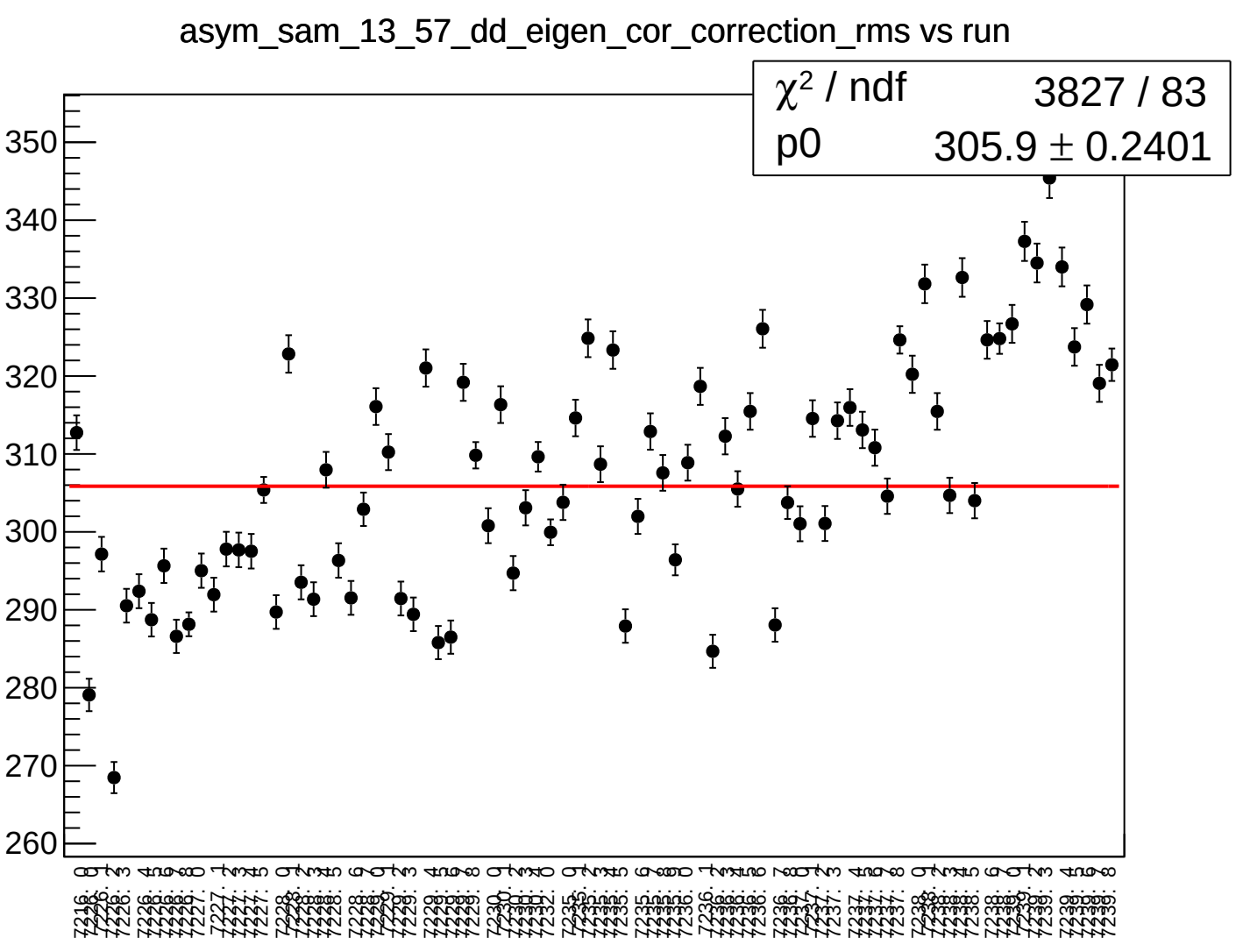

eigen_cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 76.96 / 83
p0 161.9 ± 62.94
2000
1000
0
−1000
−2000
pull
Entries 84
Mean 41.92
Std Dev 60.52
2
1
0
−1
−2
−3

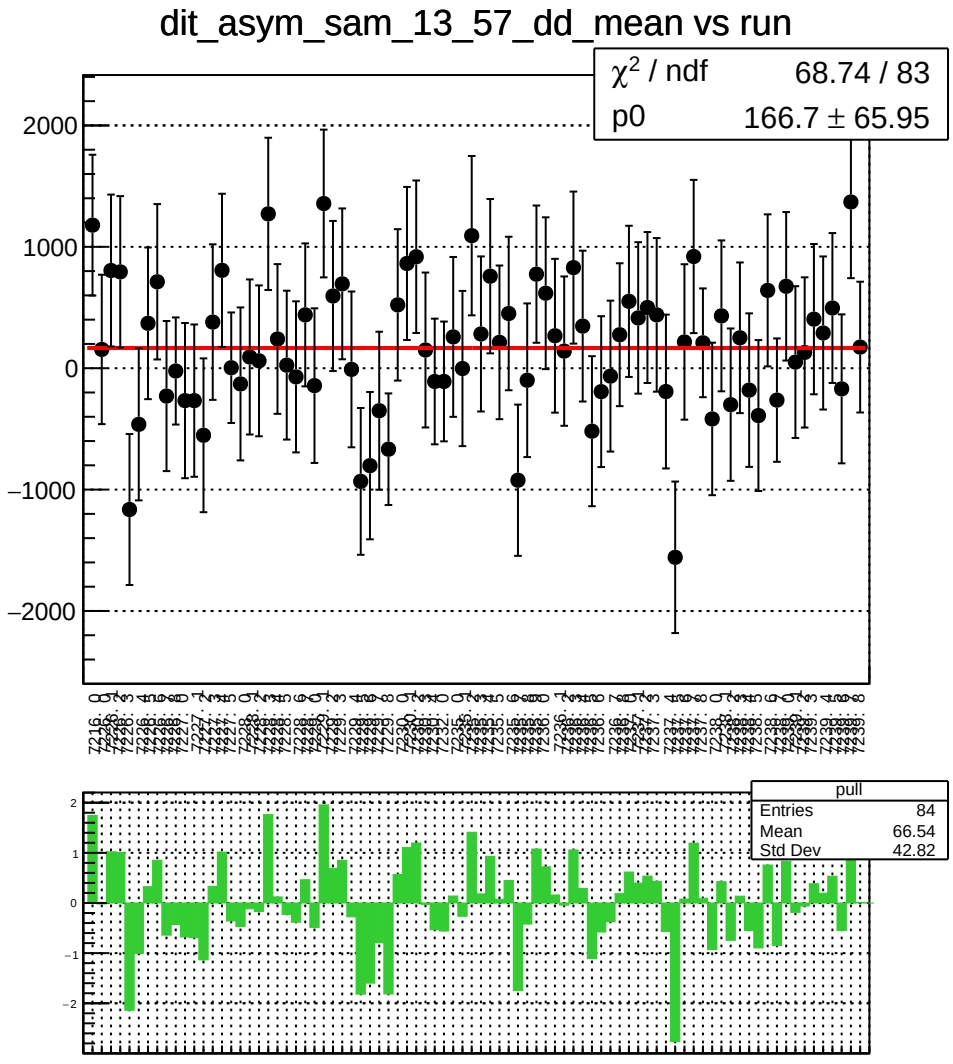

pull1D
Entries 84
Mean 0.01284
Std Dev 0.9571
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

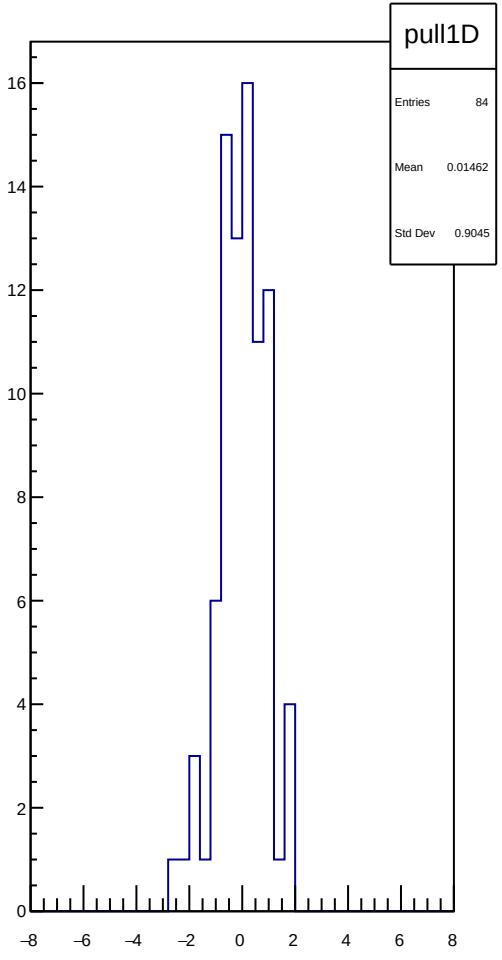

eigen_cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 506 / 83
p0 56.75 ± 0.04451
61
60
59
58
57
56
55
54

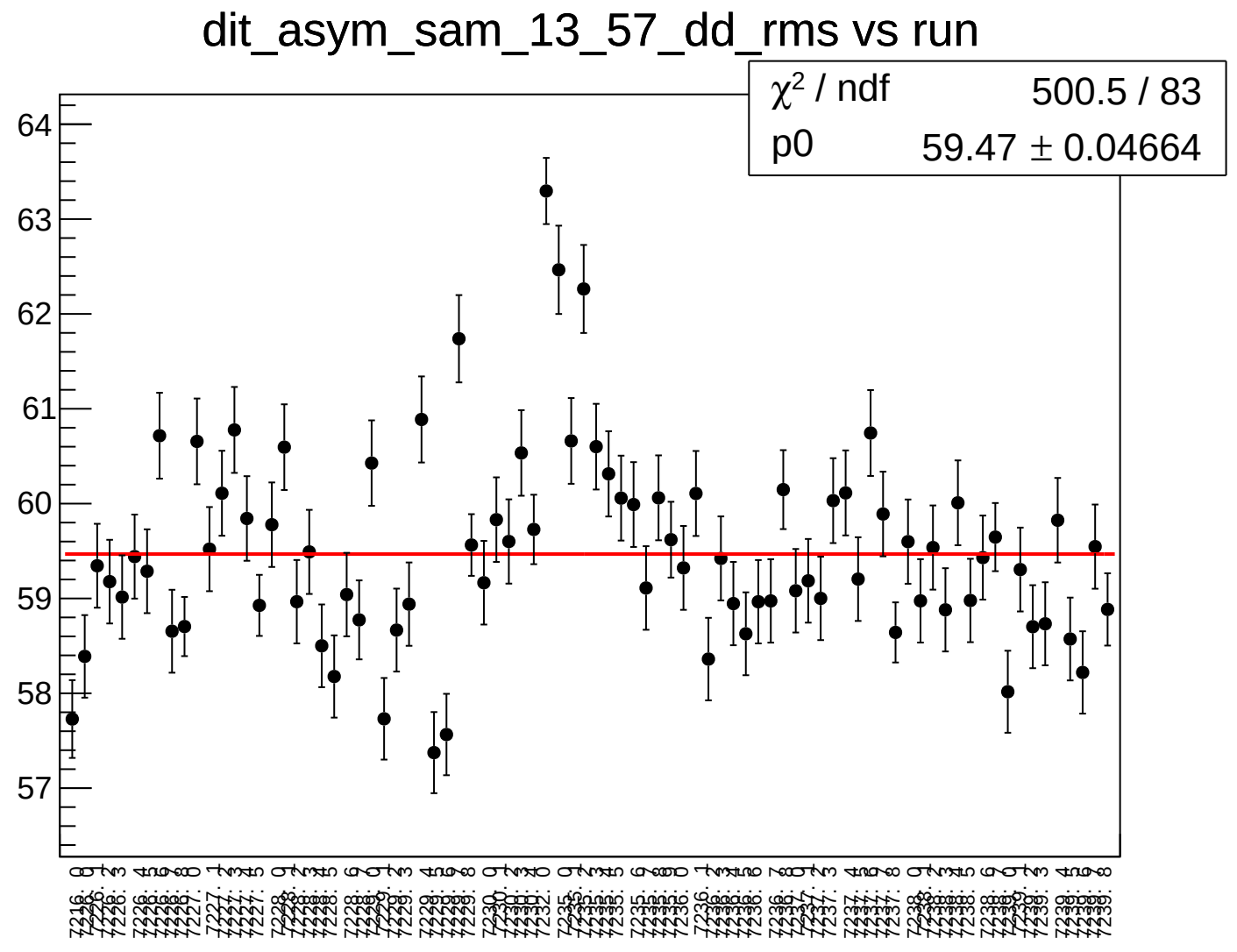

asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 65.76 / 83
p0 −509.5 ± 339.6
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −201.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

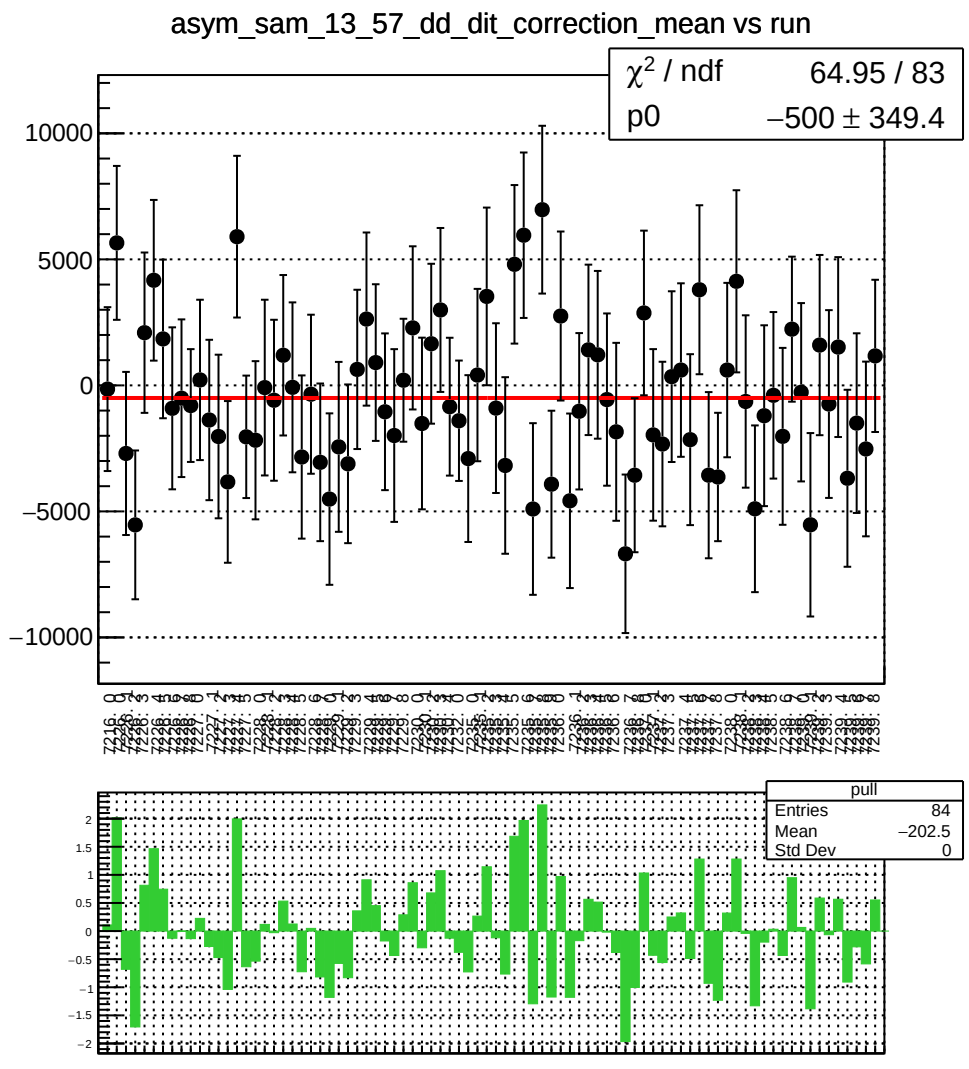

pull1D
Entries 84
Mean 0.007587
Std Dev 0.8848
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

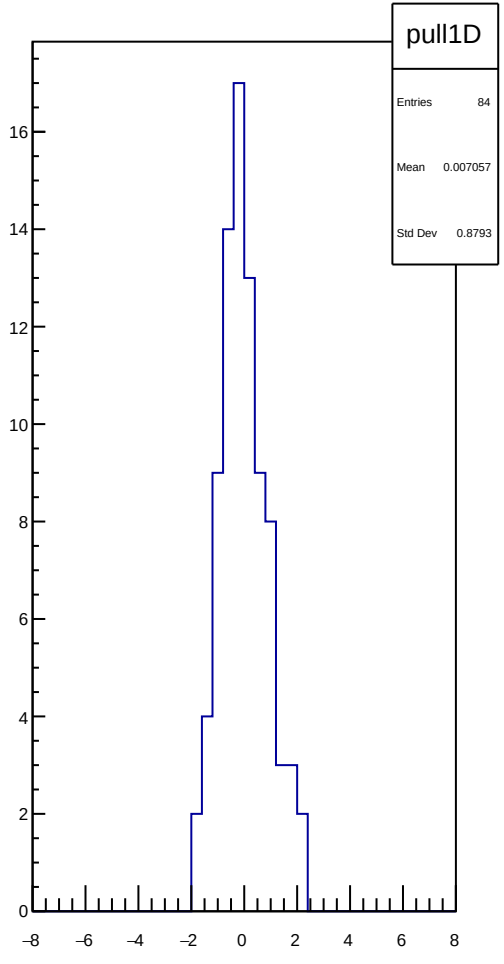

asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 3827 / 83
p0 305.9 ± 0.2401
350
340
330
320
310
300
290
280
270
260

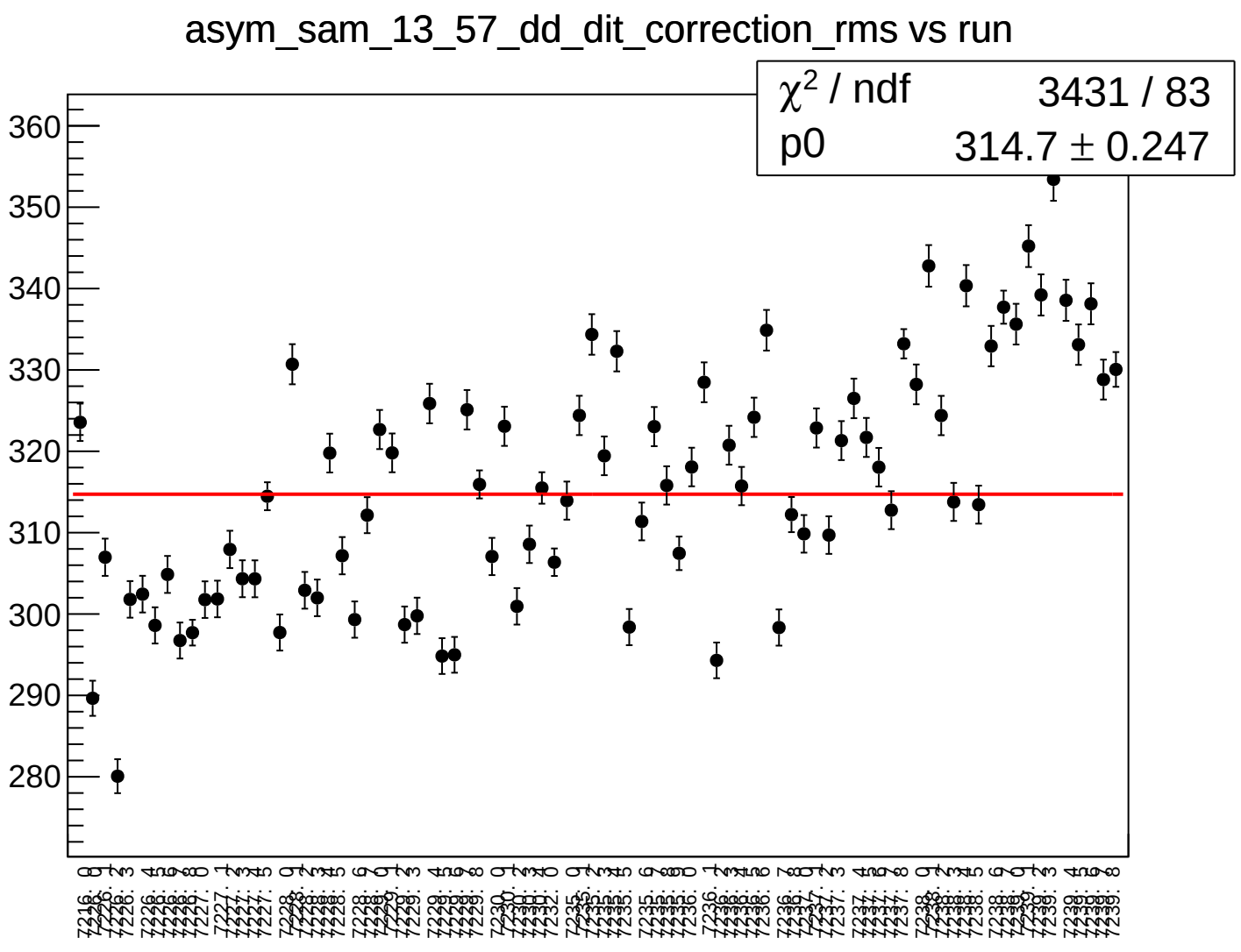

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 68.74 / 83
p0 166.7 ± 65.95
2000
1000
0
−1000
−2000
pull
Entries 84
Mean 66.54
Std Dev 42.82
2
1
0
−1
−2

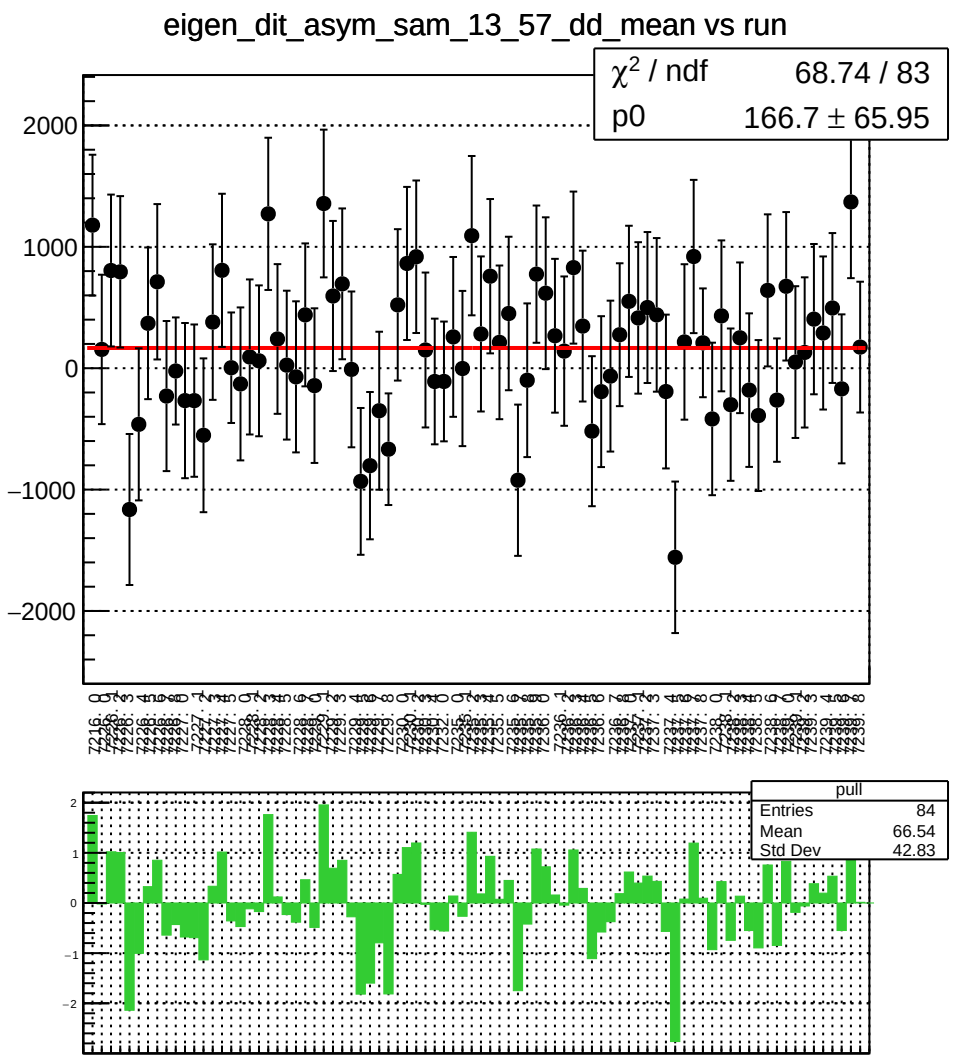

pull1D
Entries 84
Mean 0.01462
Std Dev 0.9045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

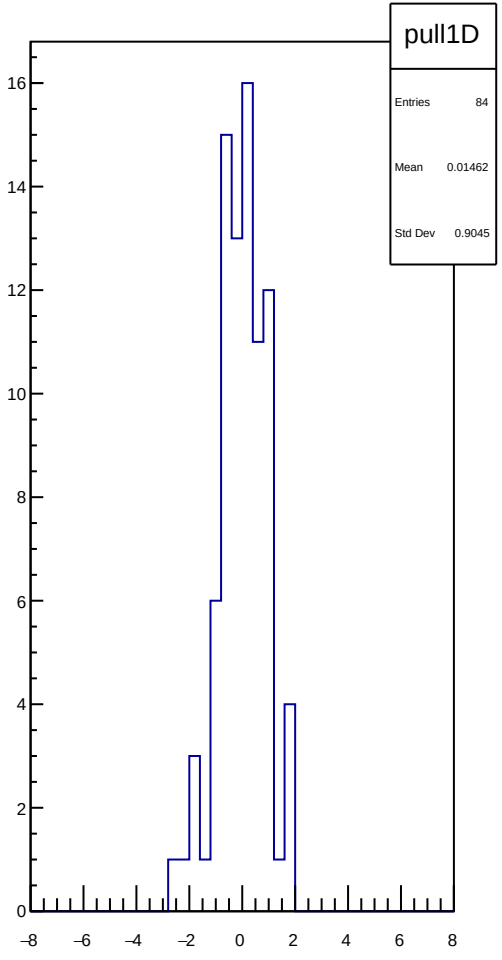

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 500.5 / 83
p0 59.47 ± 0.04664
64
63
62
61
60
59
58
57

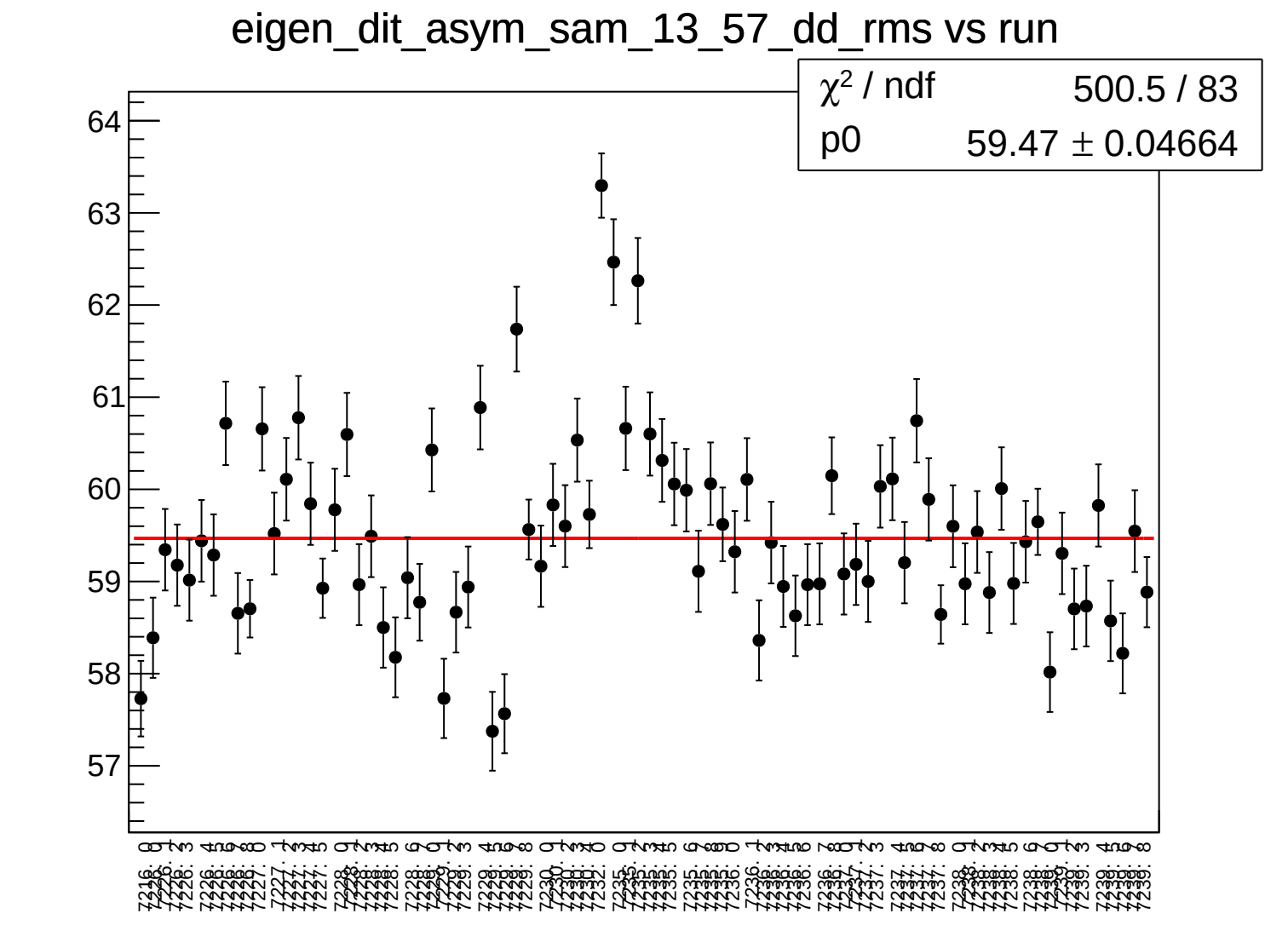

asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 64.95 / 83
p0 −500 ± 349.4
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −202.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

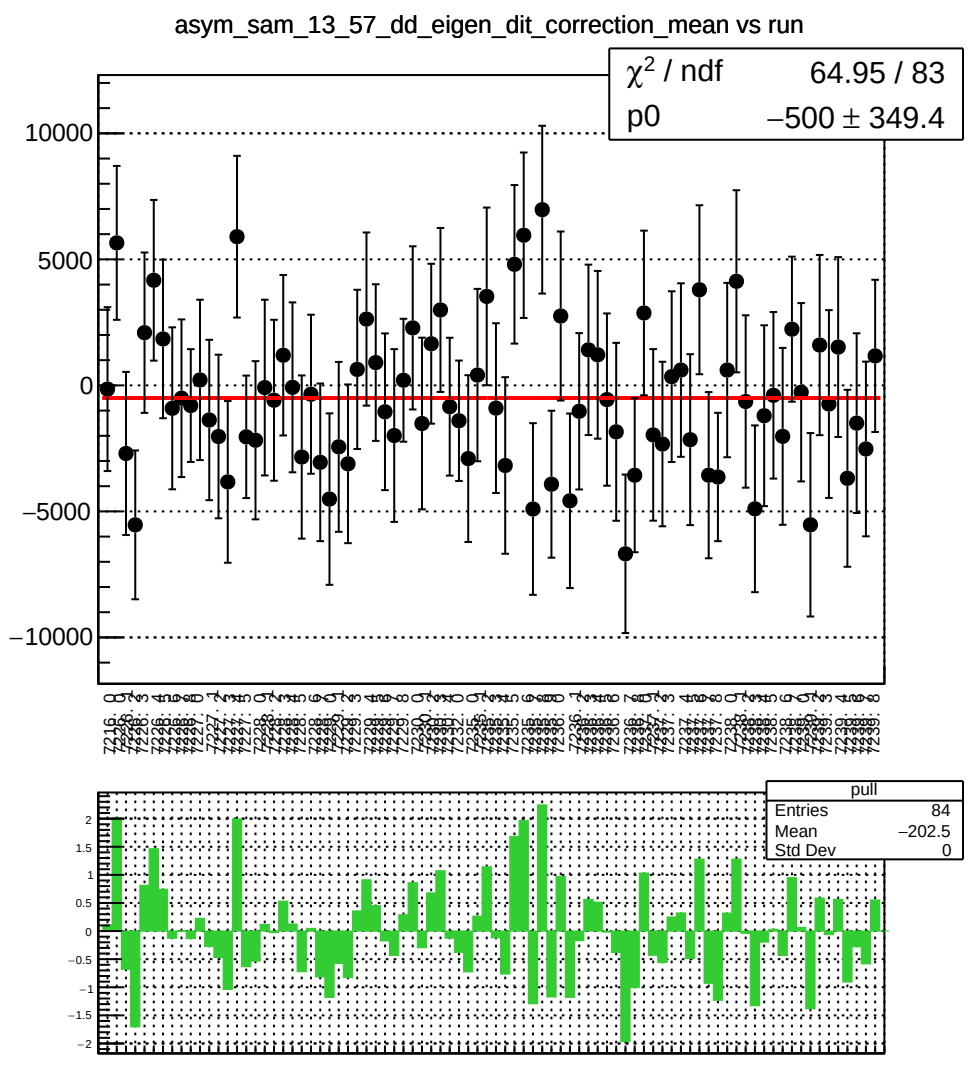

pull1D
Entries 84
Mean 0.007057
Std Dev 0.8793
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

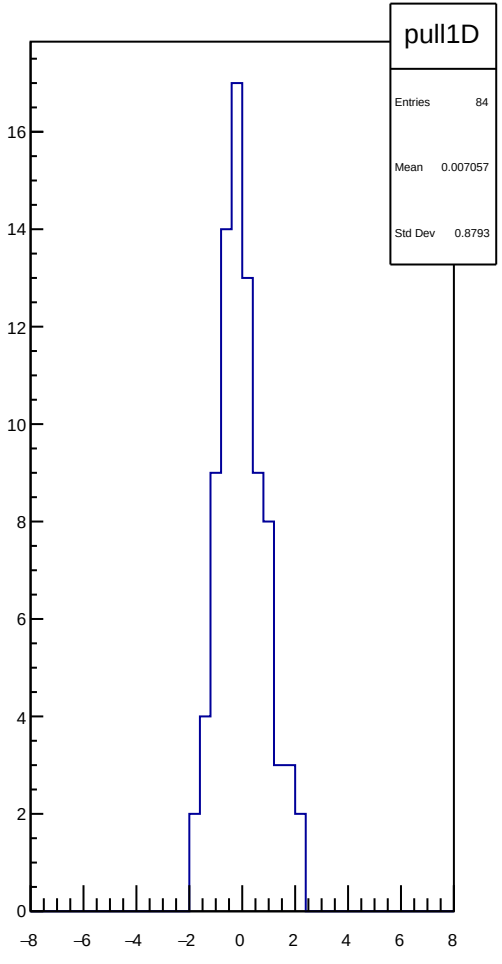

asym_sam_13_57_dd_dit_correction_rms vs run
χ^2 / ndf 3431 / 83
p0 314.7 ± 0.247
360
350
340
330
320
310
300
290
280

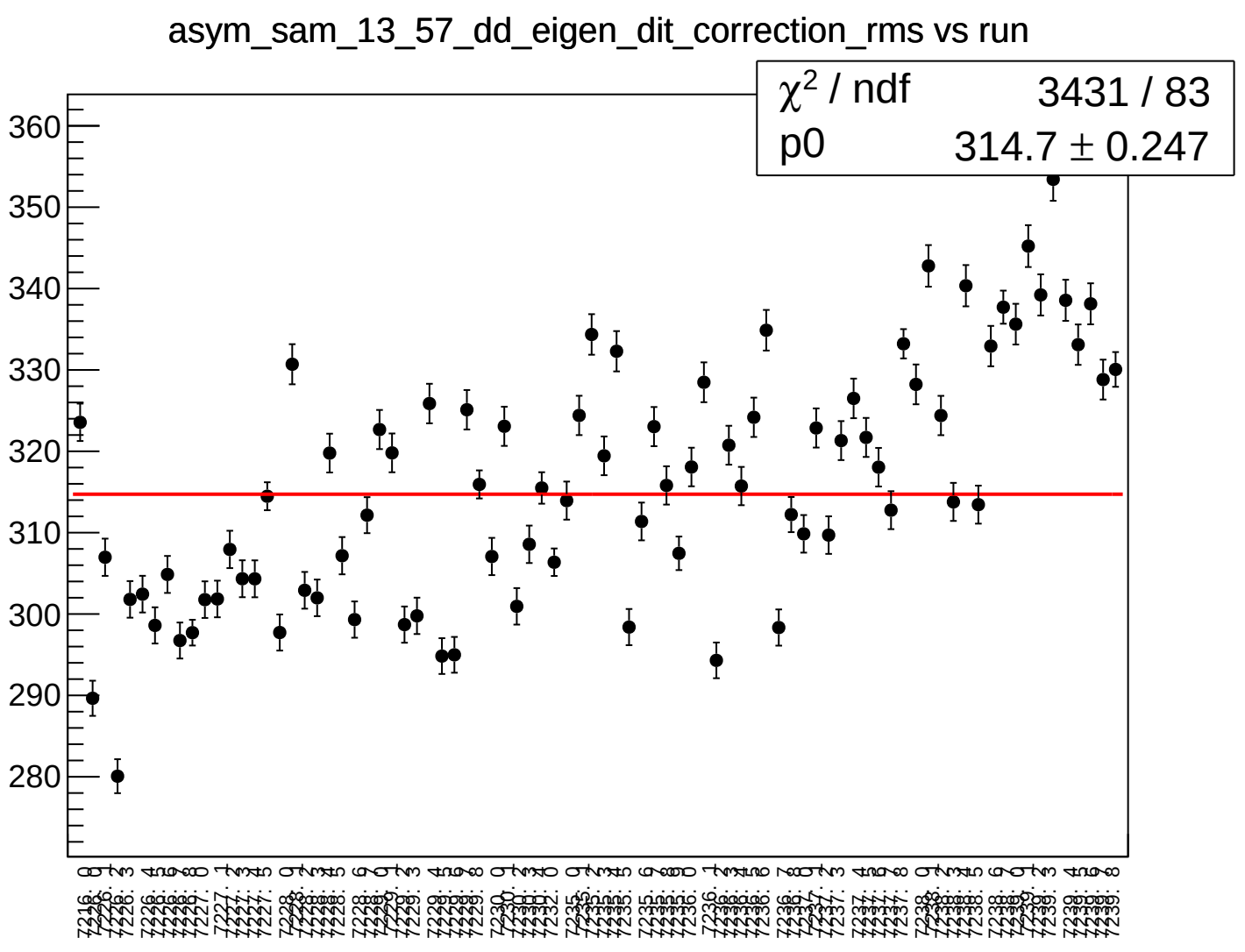

eigen_dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 68.74 / 83
p0 166.7 ± 65.95
2000
1000
0
−1000
−2000
pull
Entries 84
Mean 66.54
Std Dev 42.83
2
1
0
−1
−2

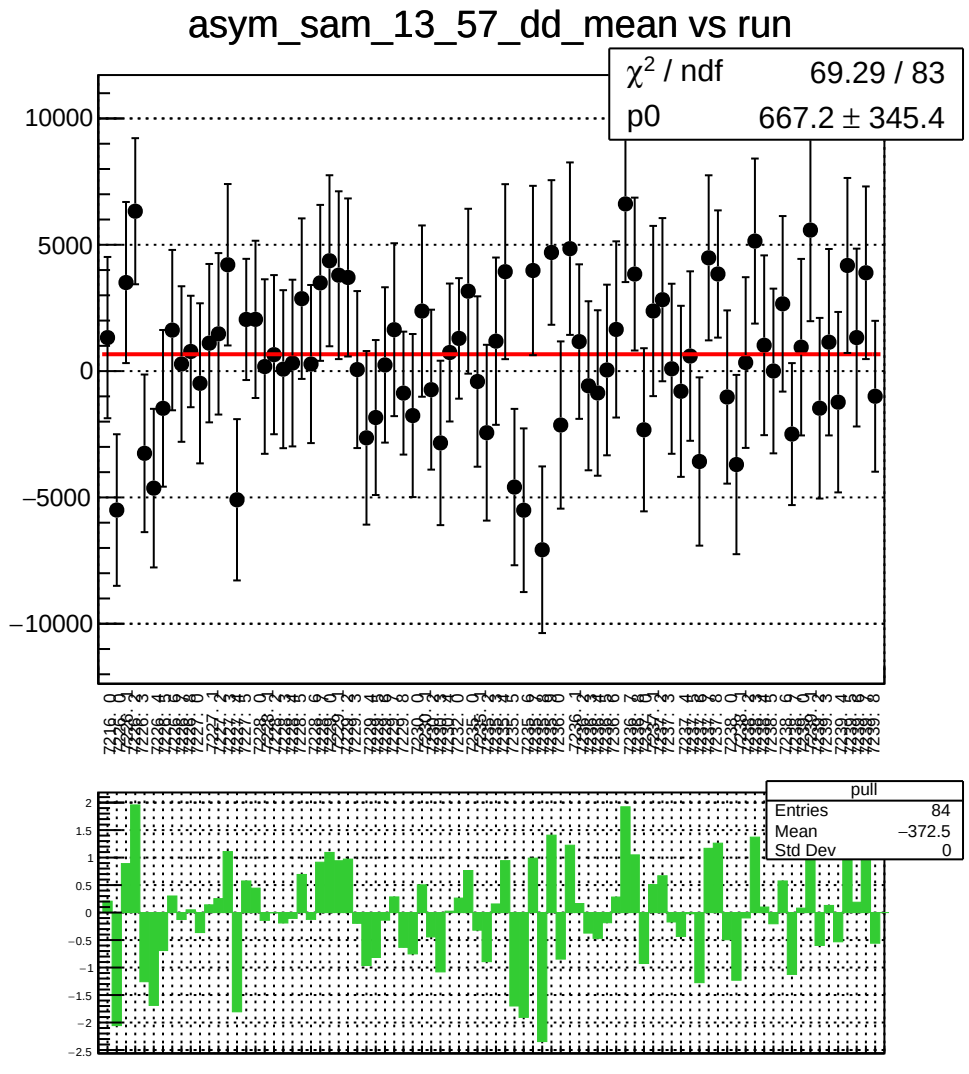

pull1D
Entries 84
Mean 0.01462
Std Dev 0.9045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

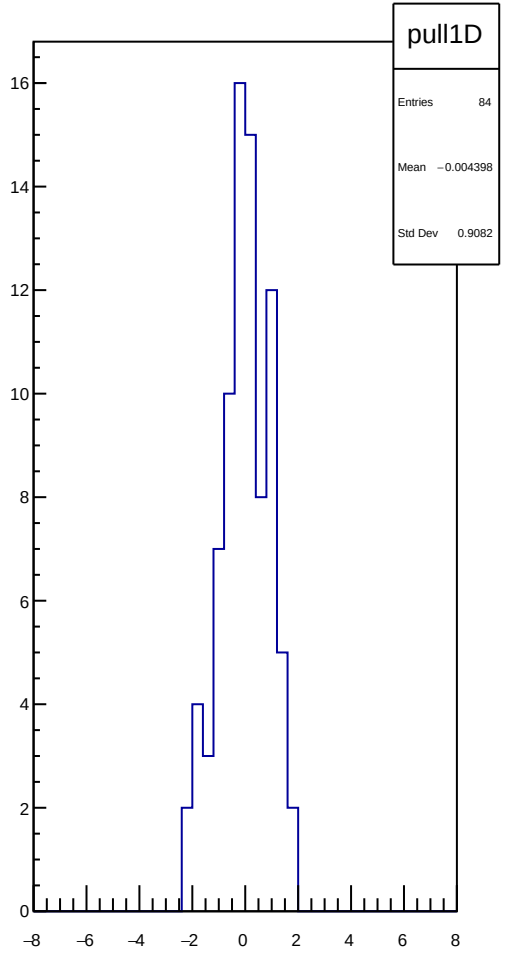

eigen_dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 500.5 / 83
p0 59.47 ± 0.04664
64
63
62
61
60
59
58
57

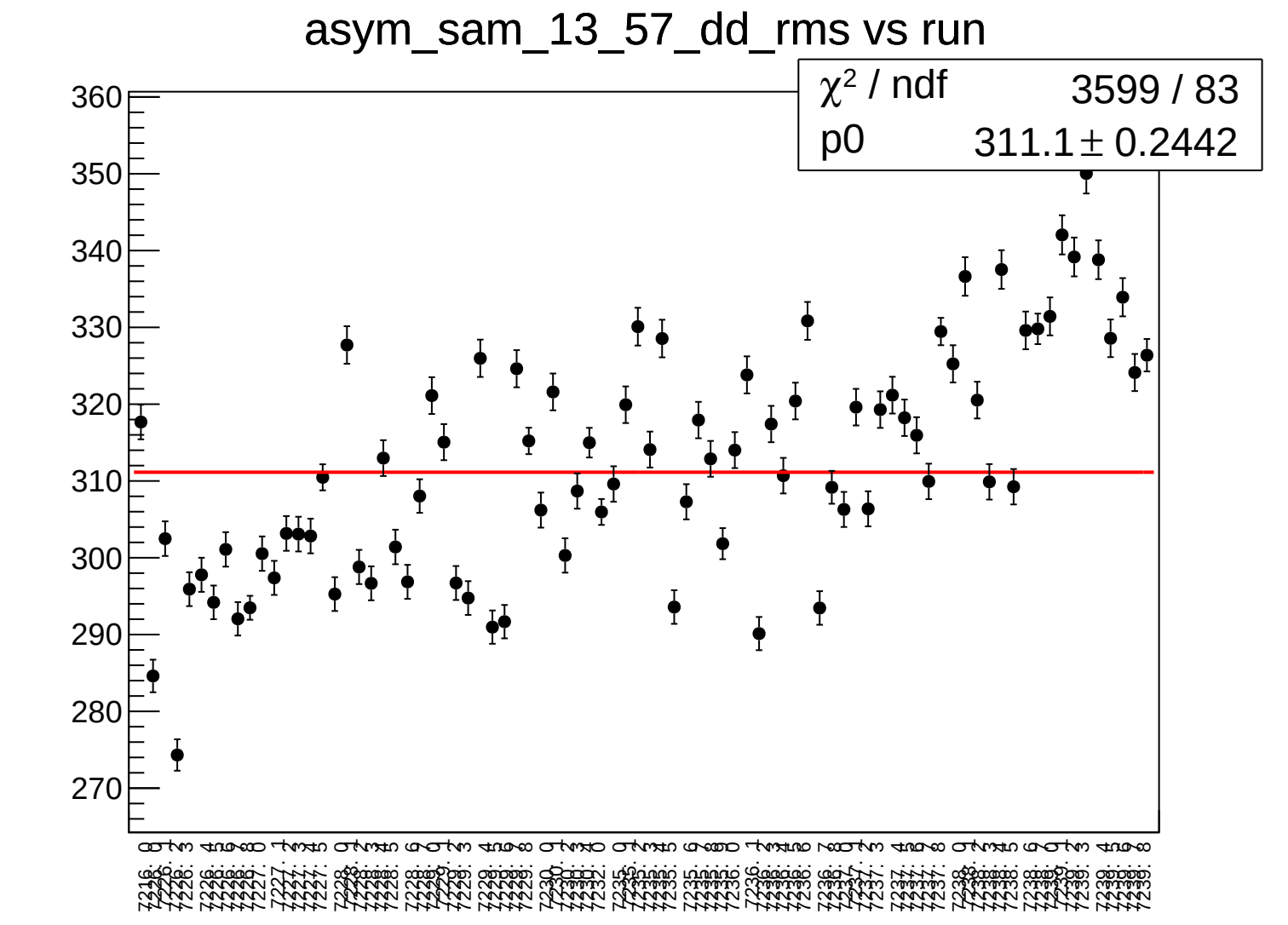

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 64.95 / 83
p0 −500 ± 349.4
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −202.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

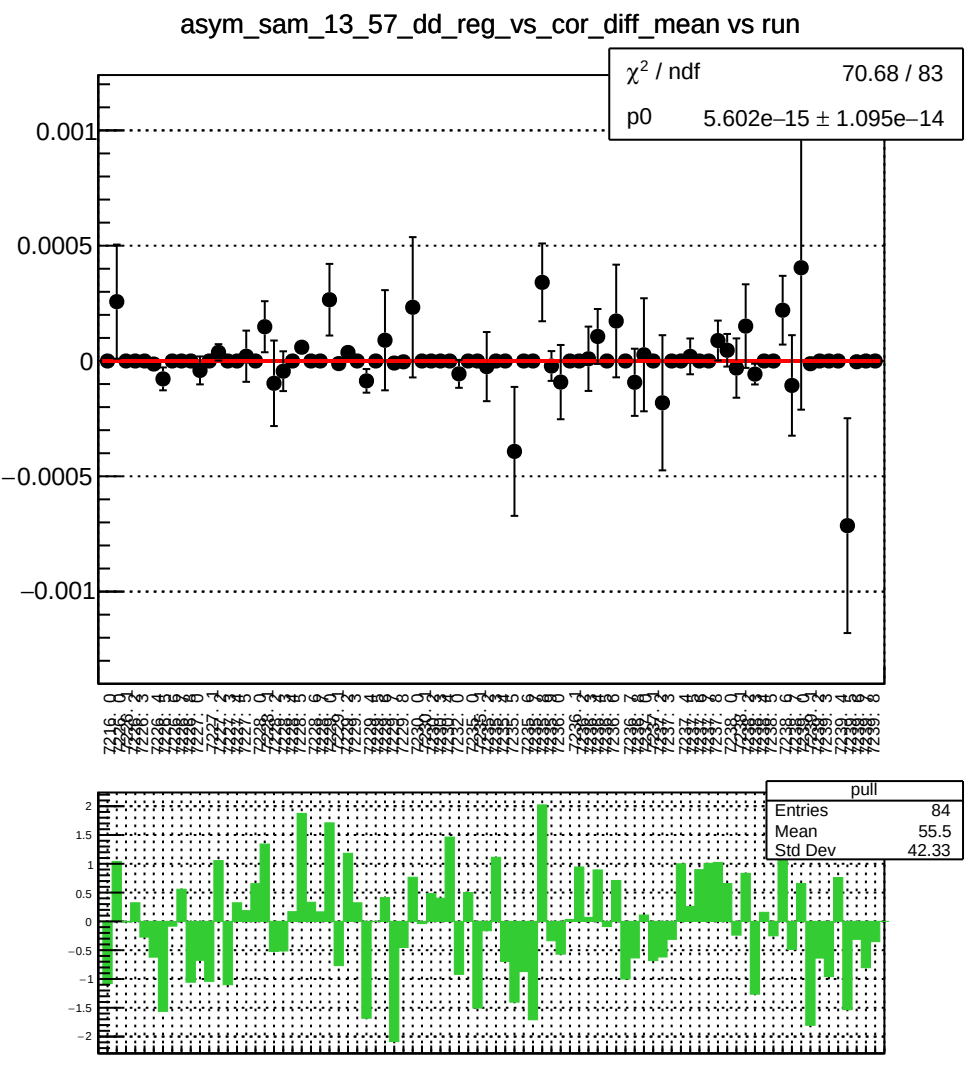

pull1D
Entries 84
Mean 0.007057
Std Dev 0.8793
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

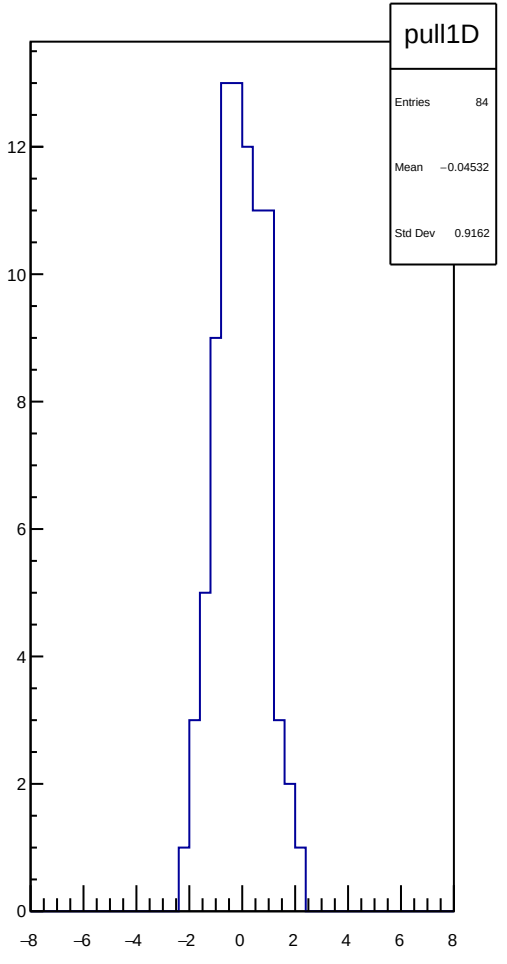

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 3431 / 83
p0 314.7 ± 0.247
360
350
340
330
320
310
300
290
280

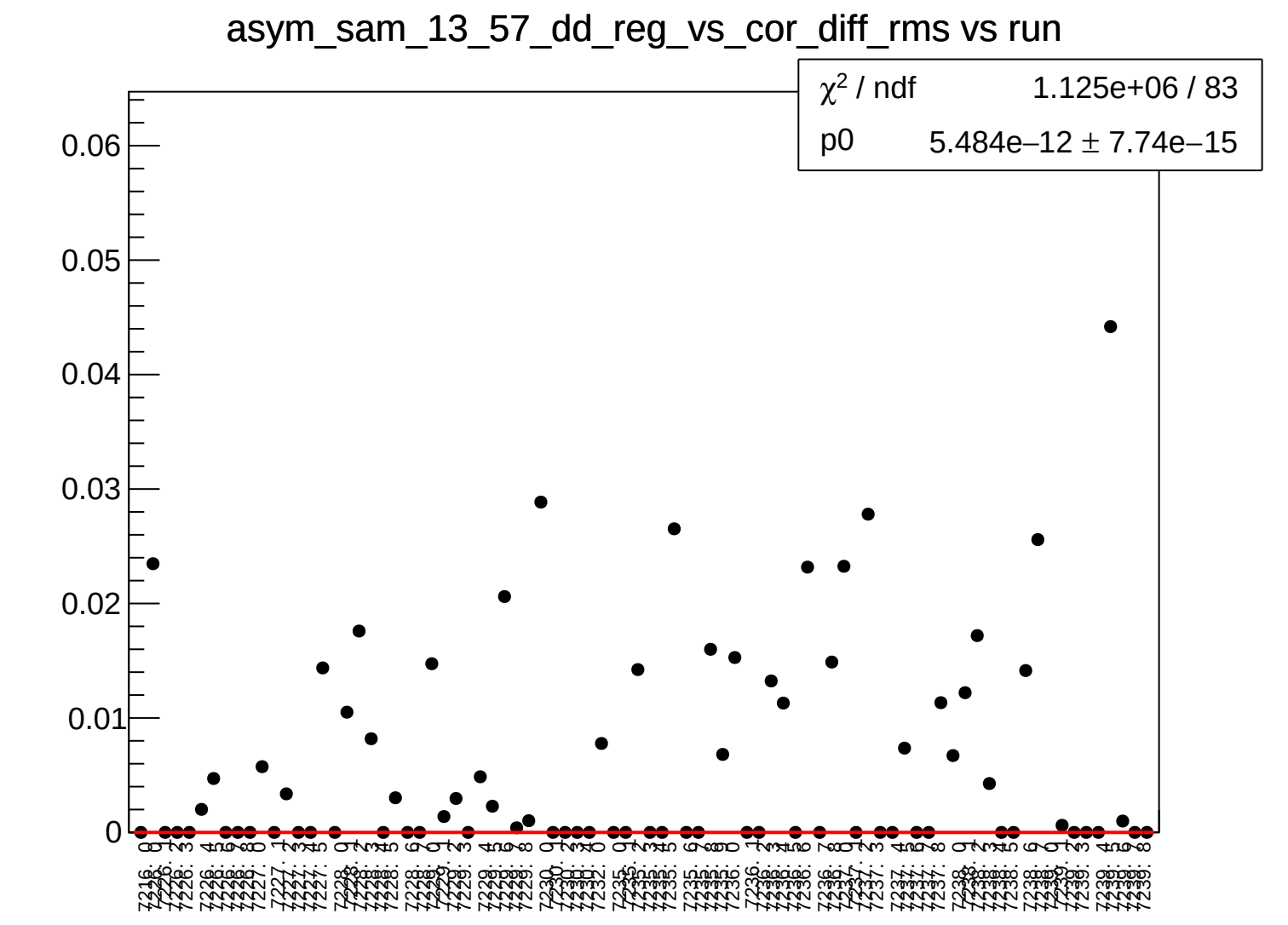

asym_sam_13_57_dd_mean vs run
χ² / ndf 69.29 / 83
p0 667.2 ± 345.4
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −372.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

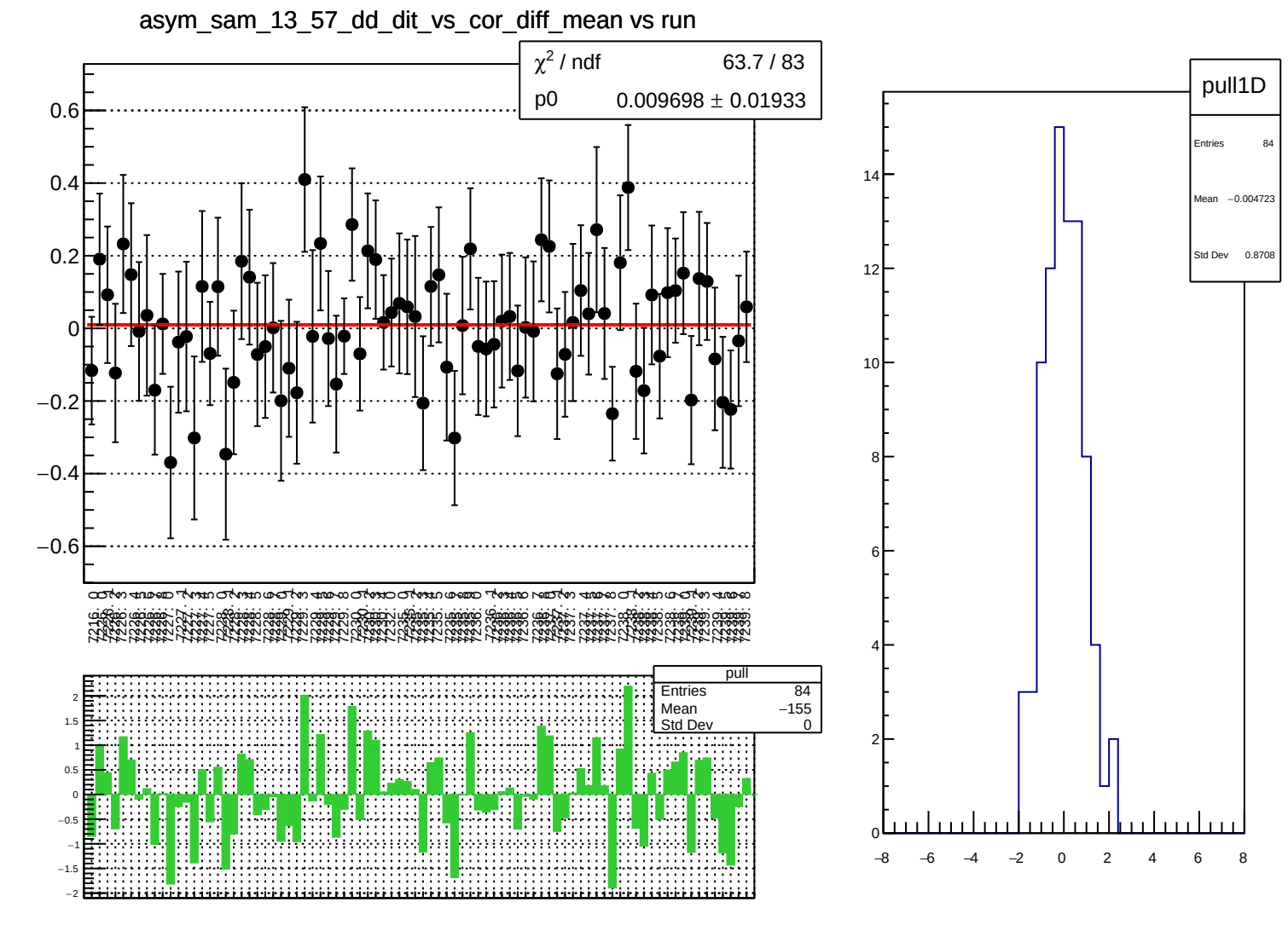

pull1D
Entries 84
Mean −0.004398
Std Dev 0.9082
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

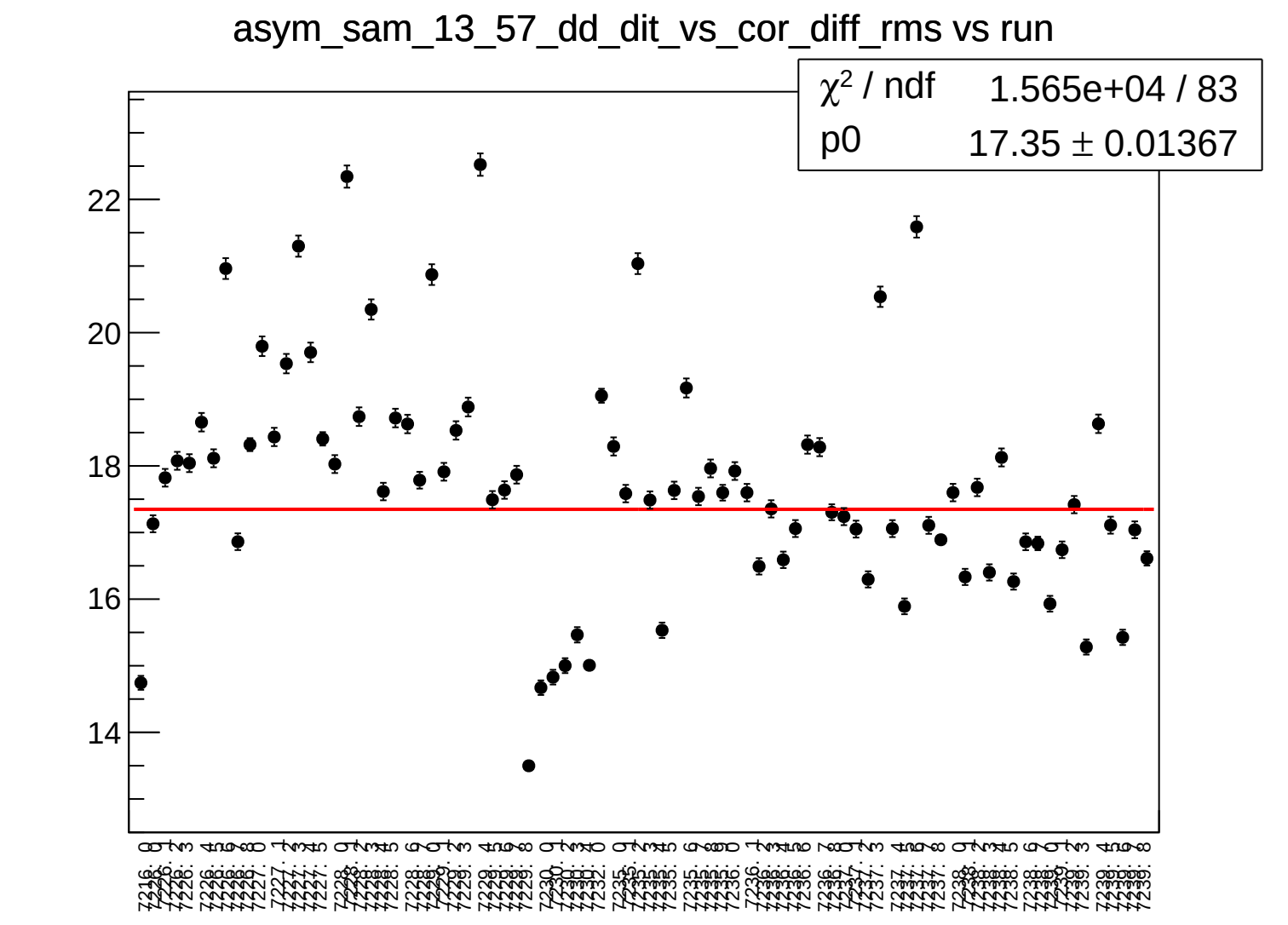

asym_sam_13_57_dd_rms vs run
χ² / ndf 3599 / 83
p0 311.1 ± 0.2442
360
350
340
330
320
310
300
290
280
270

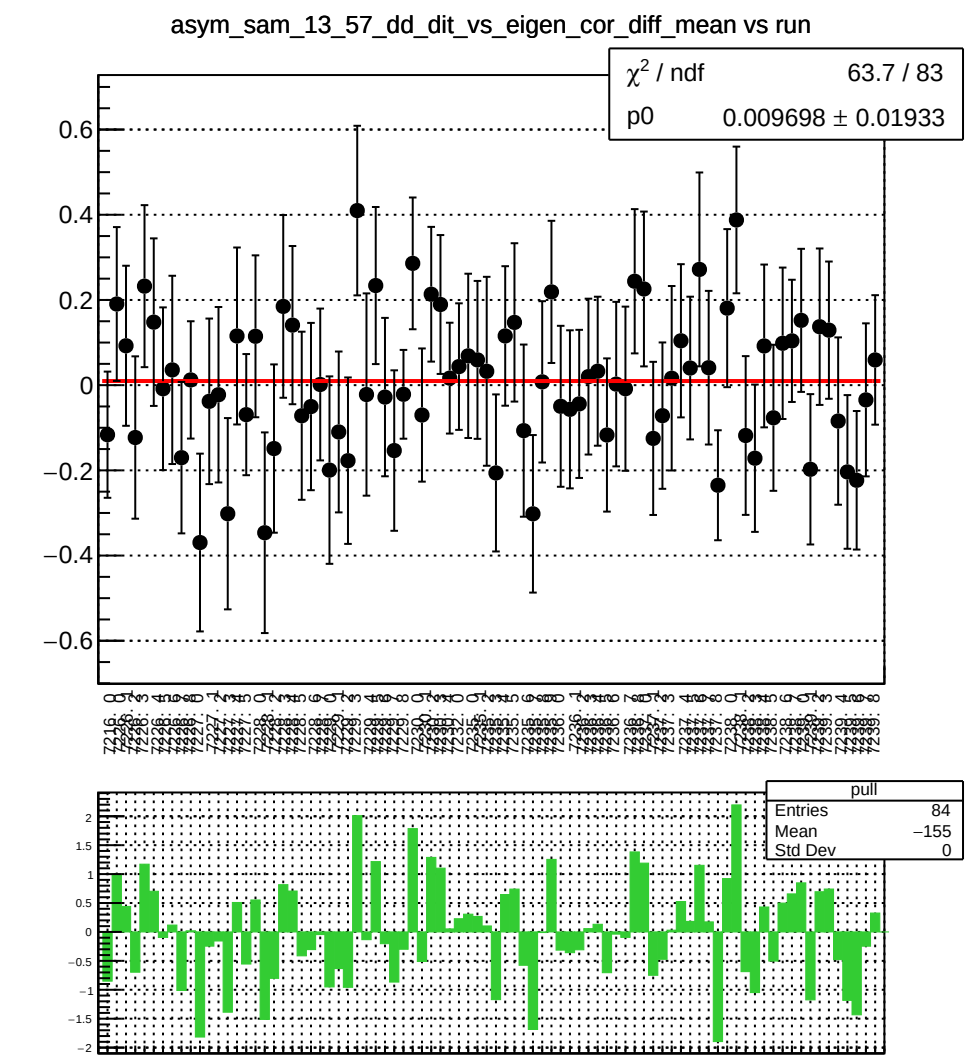

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 70.68 / 83
p0 5.602e−15 ± 1.095e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 84
Mean 55.5
Std Dev 42.33
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

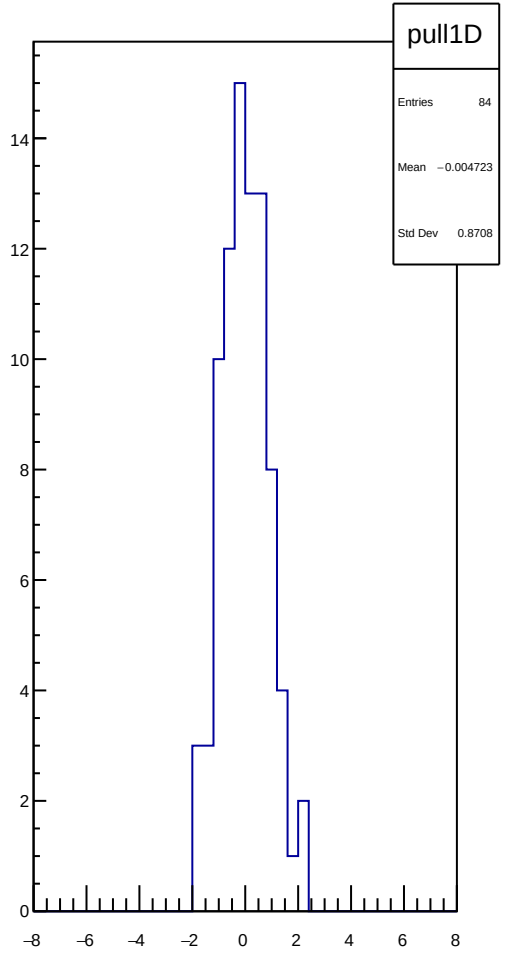

pull1D
Entries 84
Mean −0.04532
Std Dev 0.9162
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

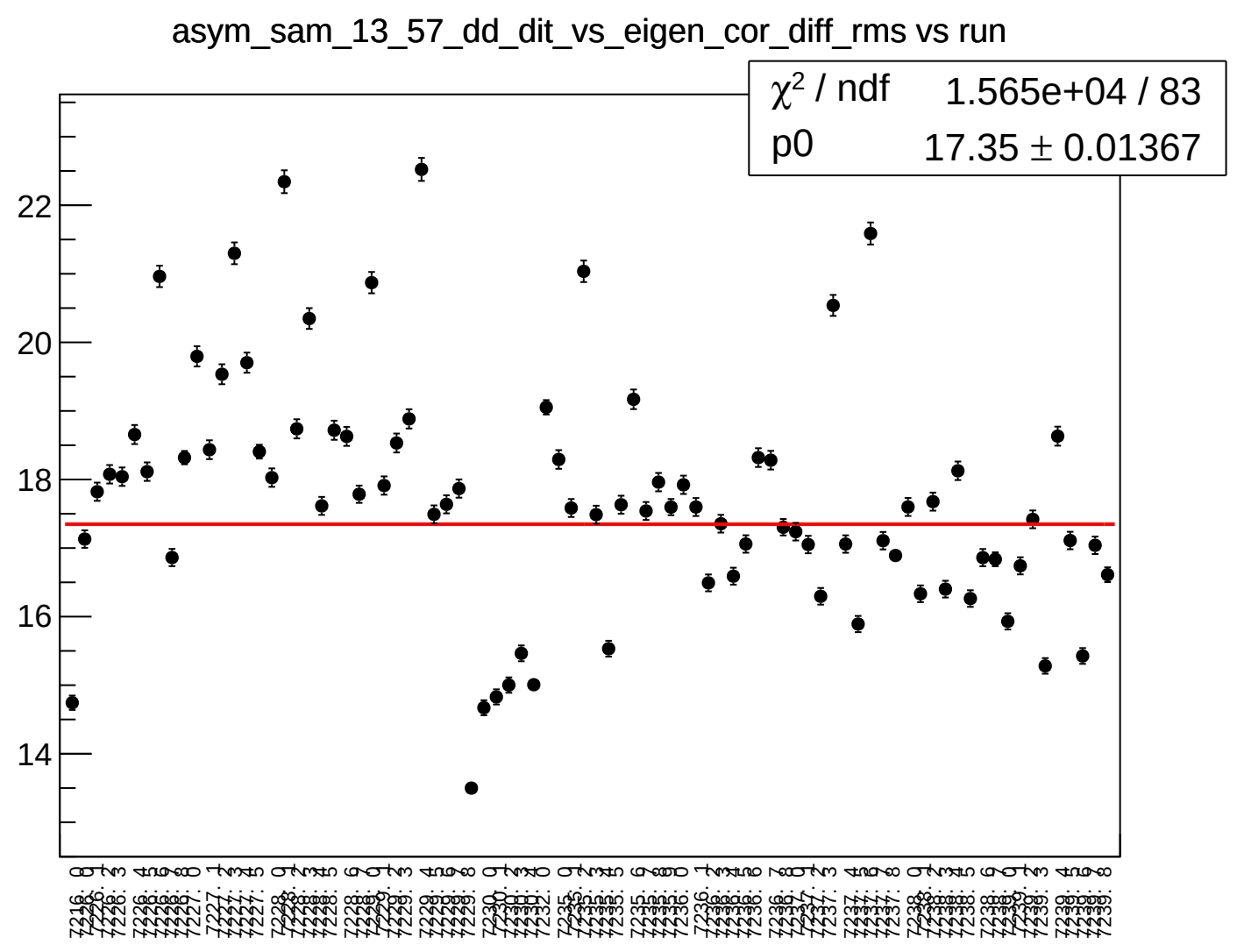

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.125e+06 / 83
p0 5.484e−12 ± 7.74e−15
0.06
0.05
0.04
0.03
0.02
0.01
0

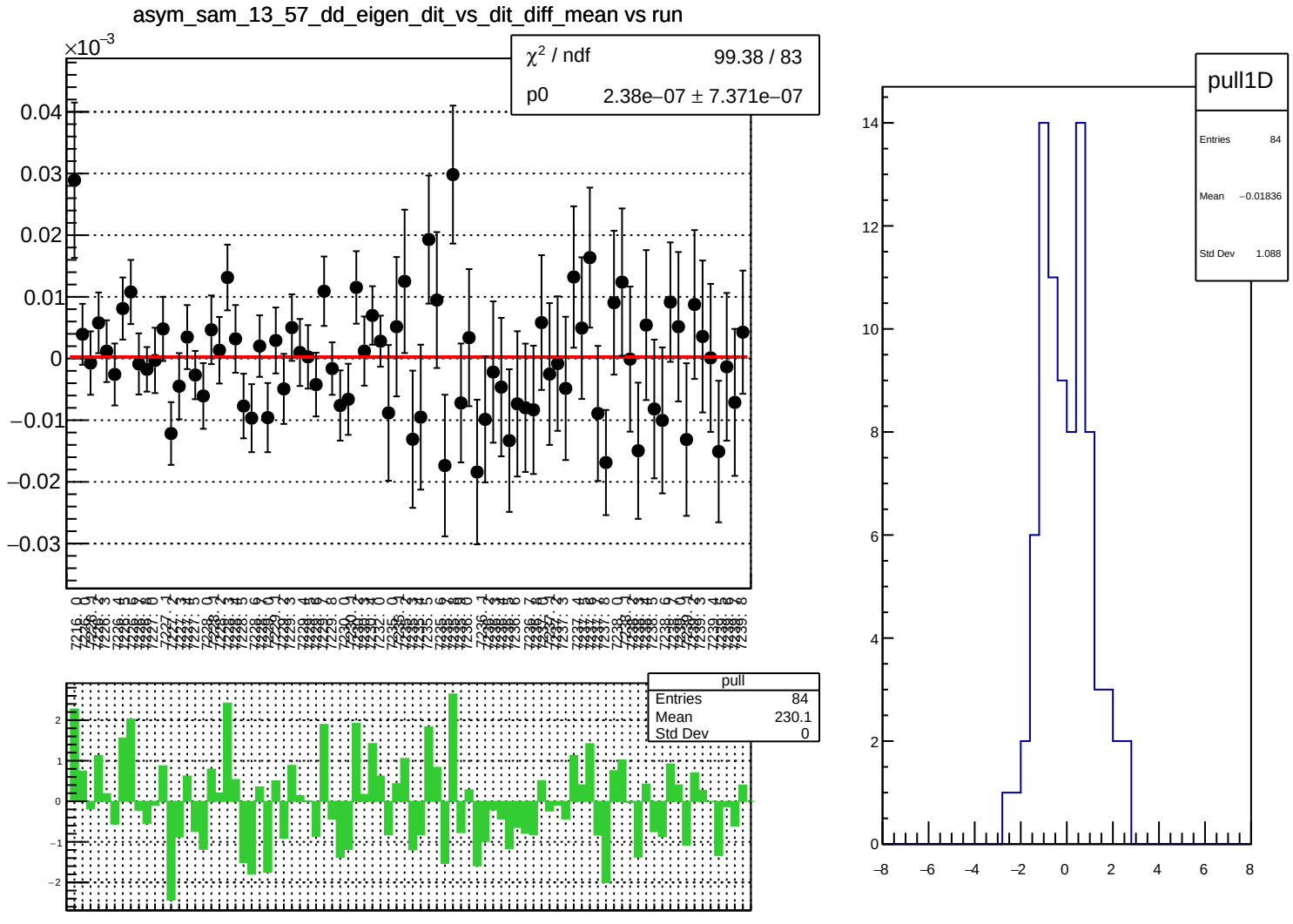

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 63.7 / 83
p0 0.009698 ± 0.01933
pull
Entries 84
Mean −155
Std Dev 0
pull1D
Entries 84
Mean −0.004723
Std Dev 0.8708

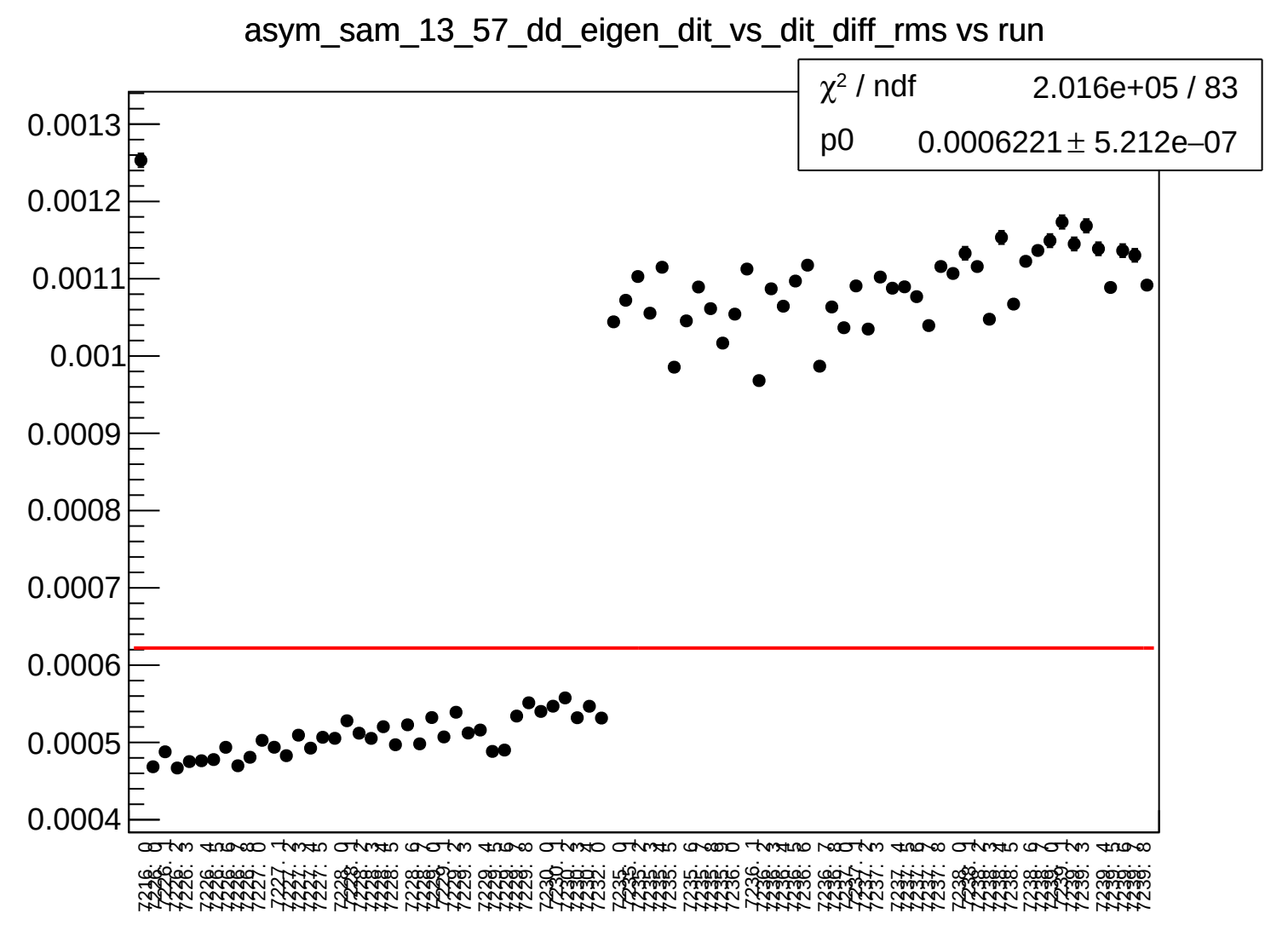

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.565e+04 / 83
p0 17.35 ± 0.01367
22
20
18
16
14

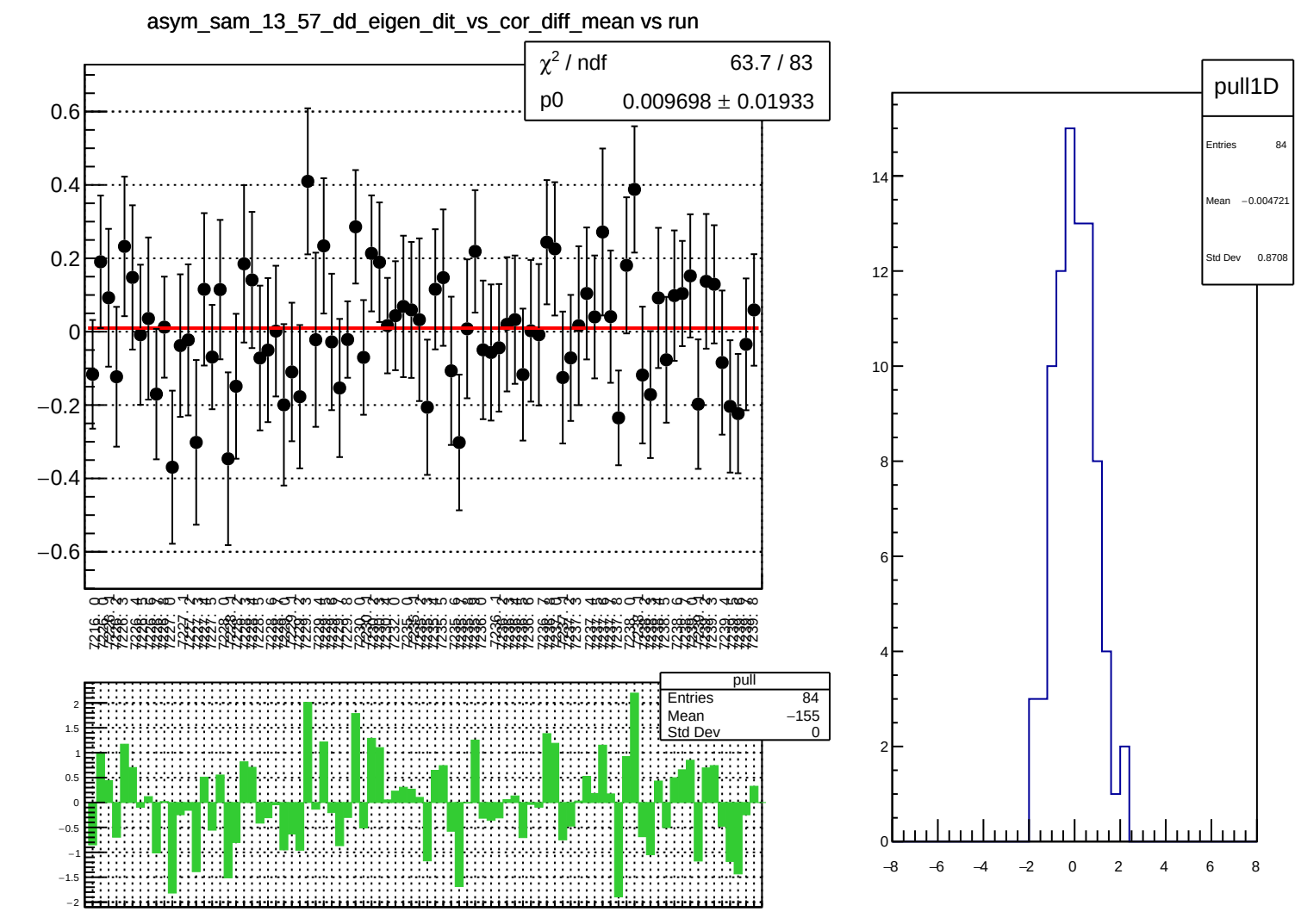

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 63.7 / 83
p0 0.009698 ± 0.01933
pull
Entries 84
Mean −155
Std Dev 0

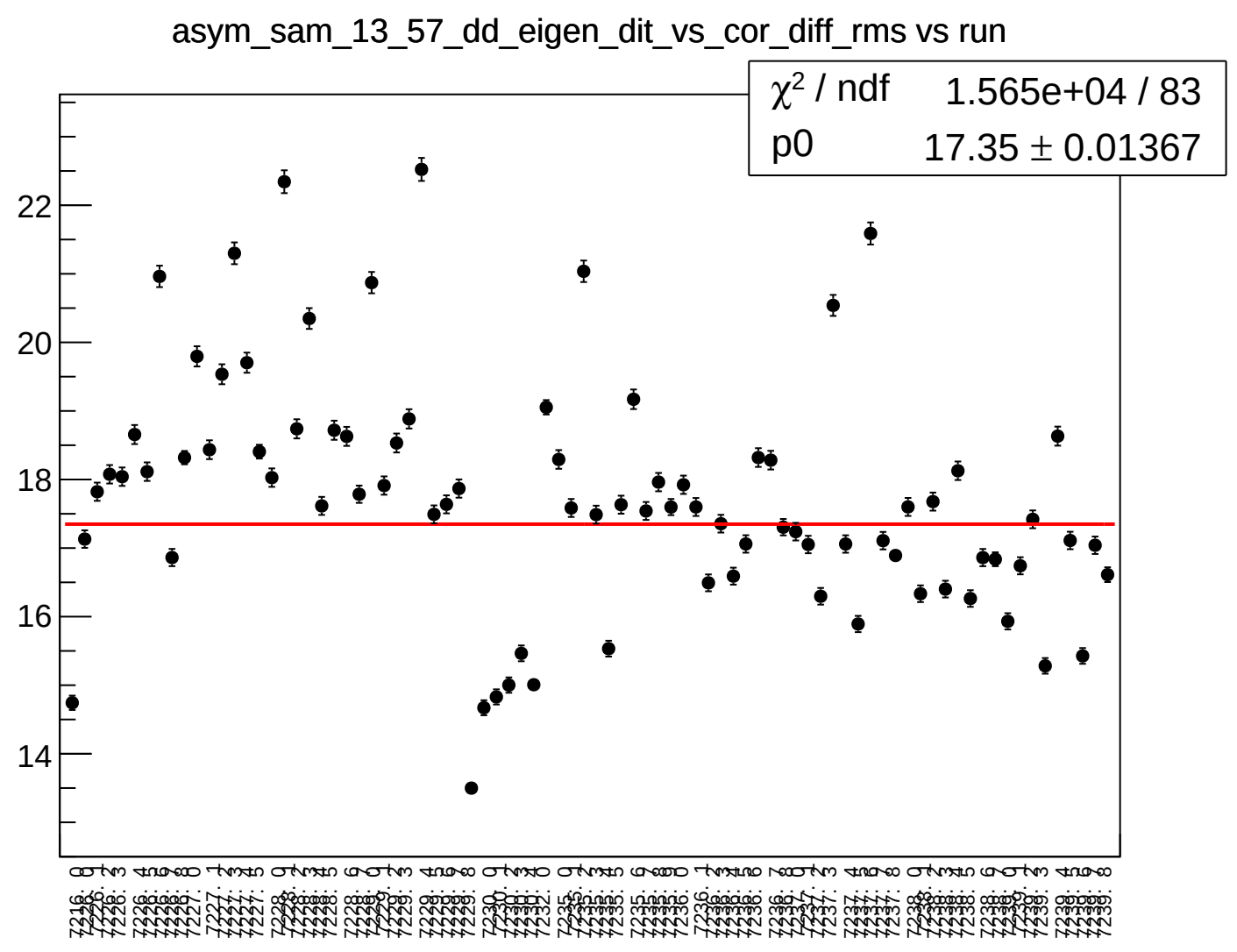

pull1D
Entries 84
Mean −0.004723
Std Dev 0.8708

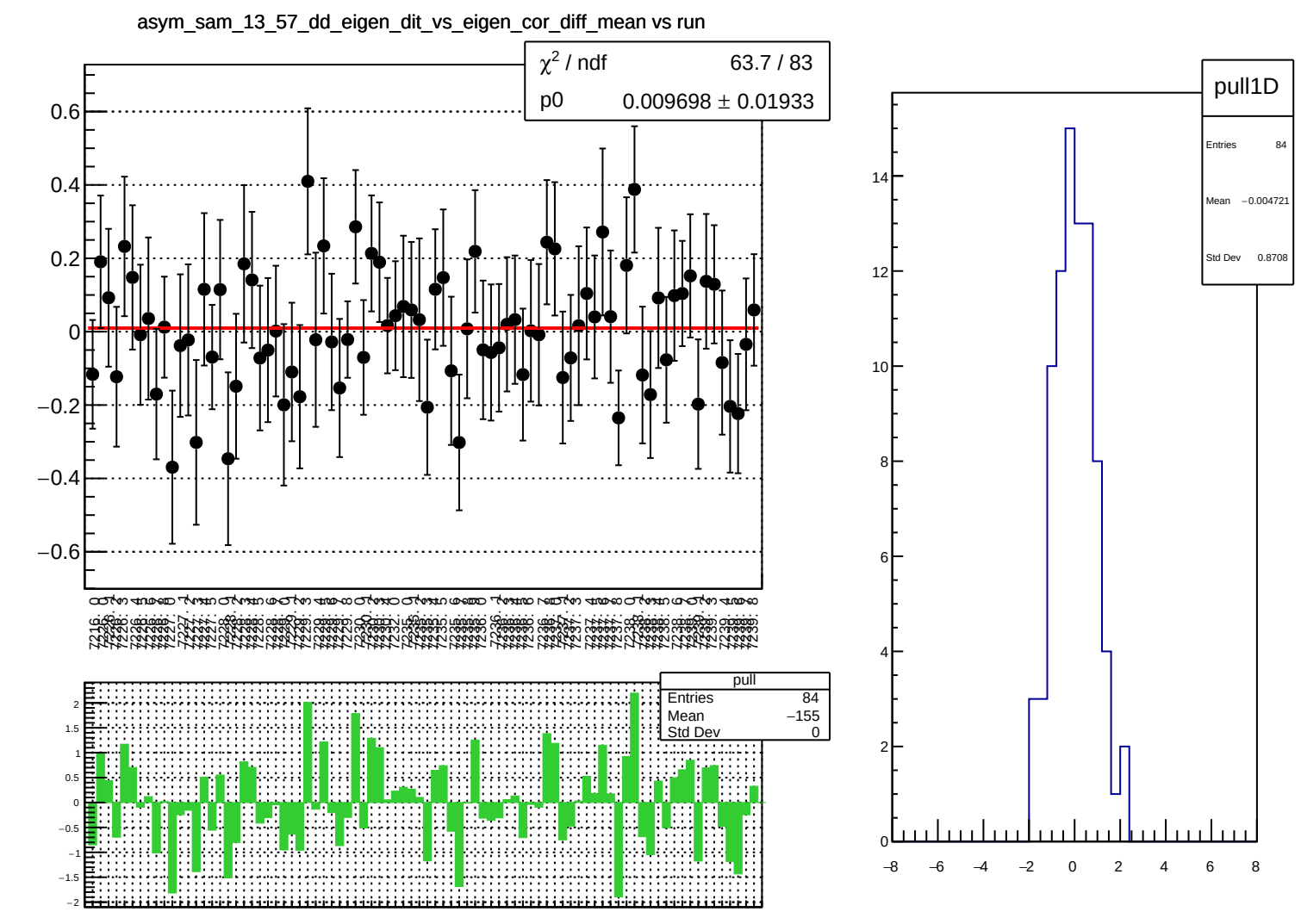

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.565e+04 / 83
p0 17.35 ± 0.01367
22
20
18
16
14

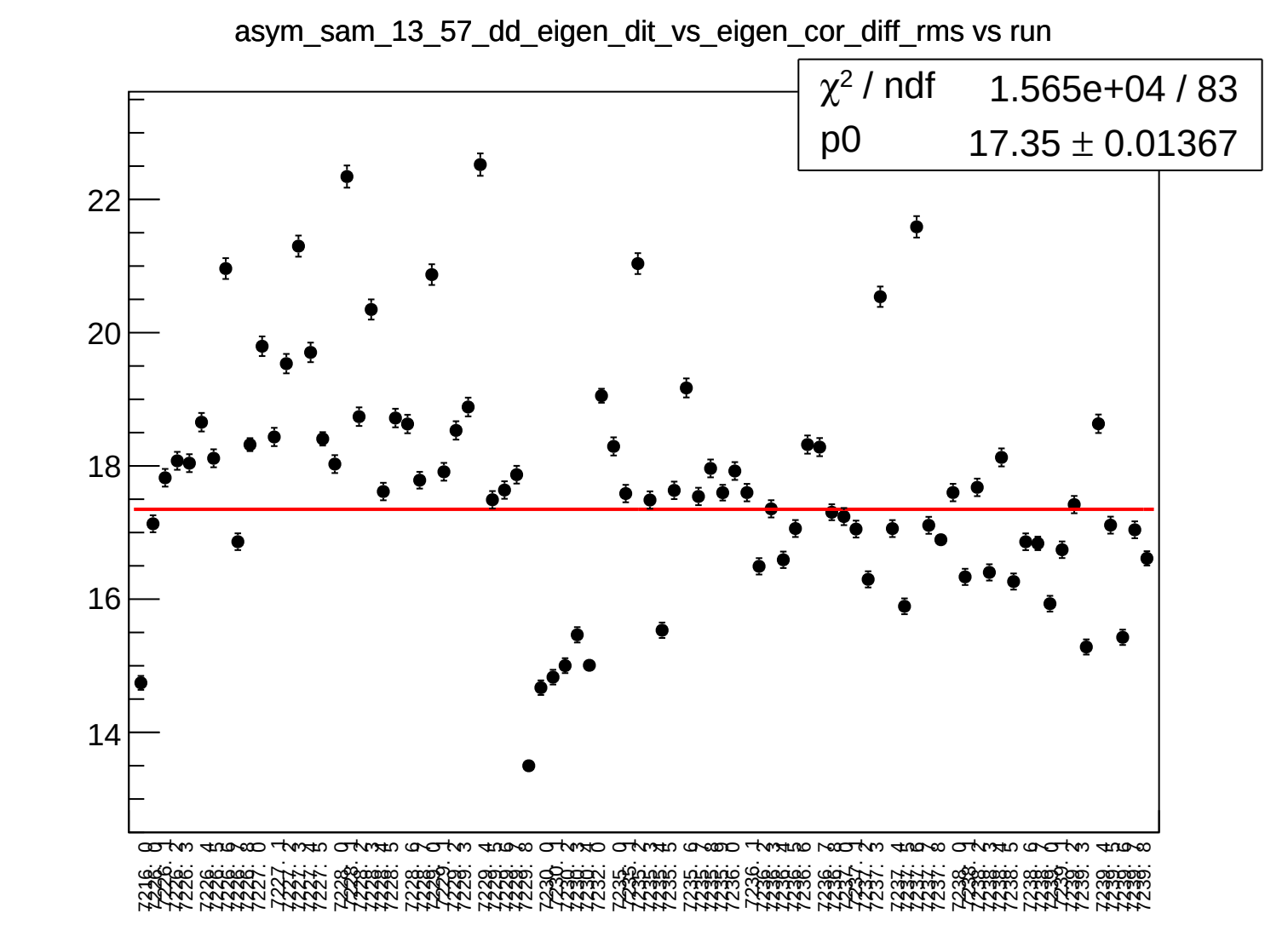

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.38 / 83
p0 2.38e−07 ± 7.371e−07
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 84
Mean 230.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.01836
Std Dev 1.088
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

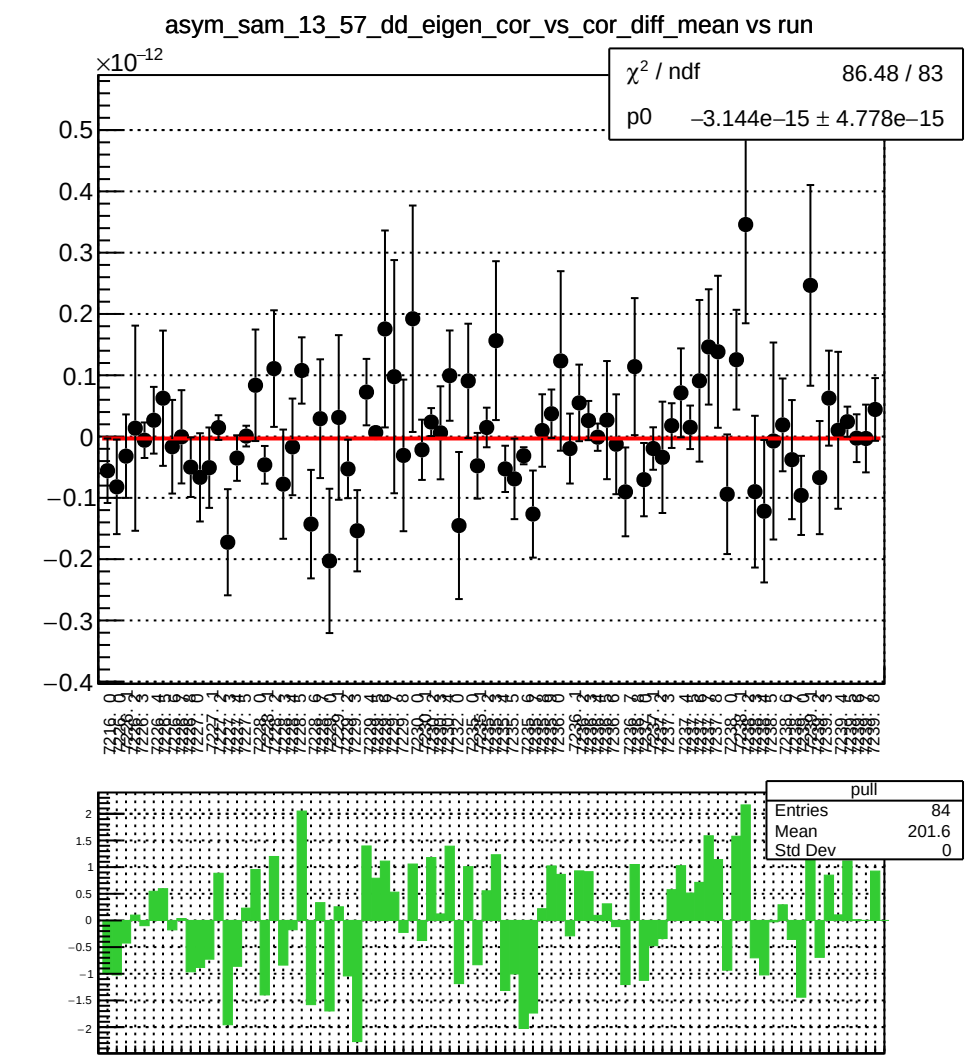

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.016e+05 / 83
p0 0.0006221 ± 5.212e−07
0.0013
0.0012
0.0011
0.001
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004

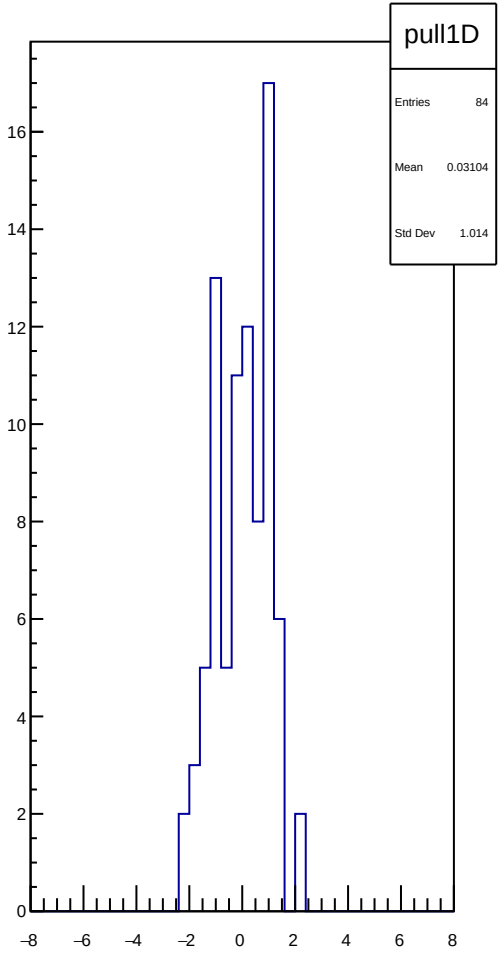

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 63.7 / 83
p0 0.009698 ± 0.01933
pull
Entries 84
Mean −155
Std Dev 0
pull1D
Entries 84
Mean −0.004721
Std Dev 0.8708

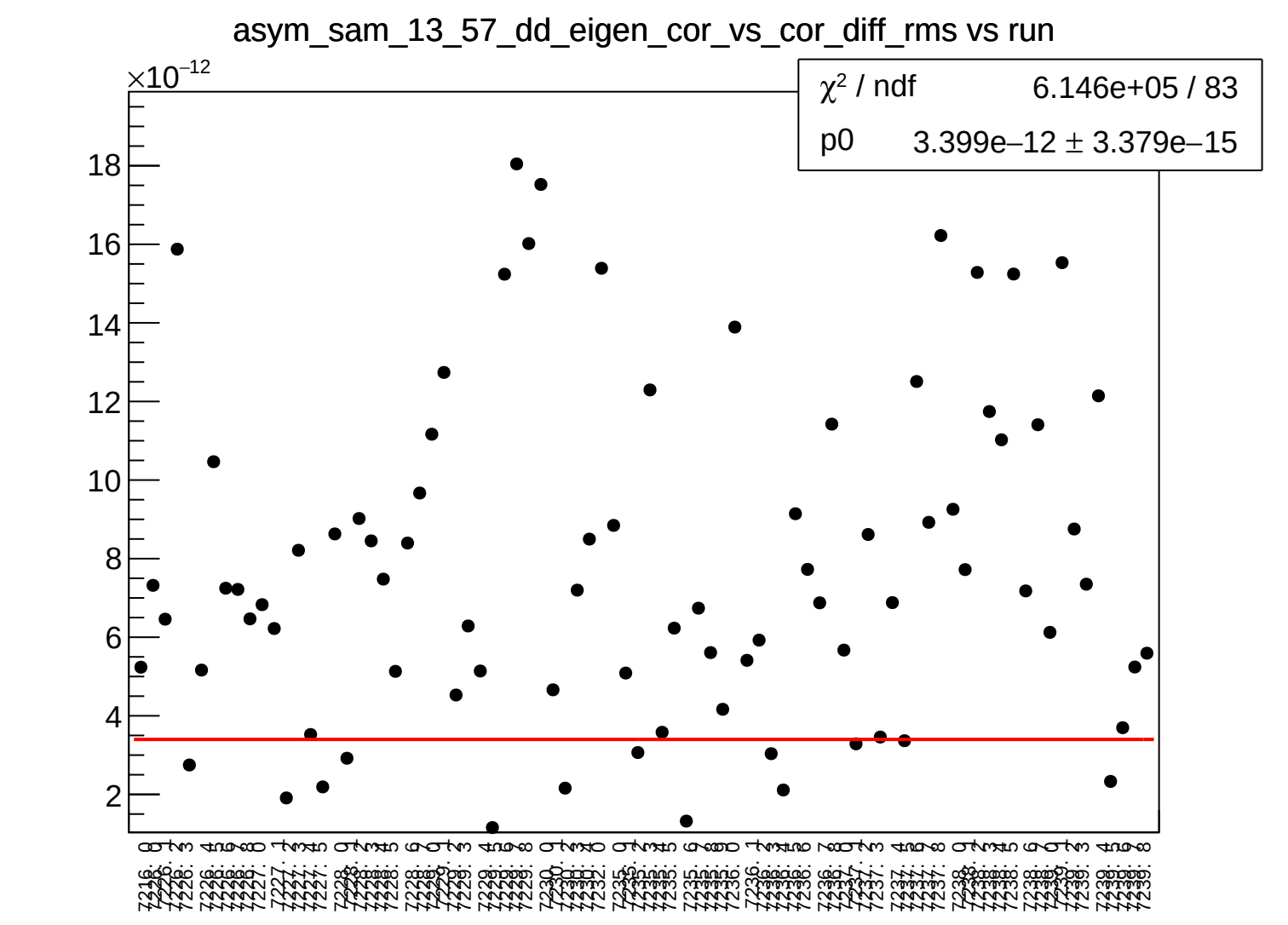

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.565e+04 / 83
p0 17.35 ± 0.01367
22
20
18
16
14

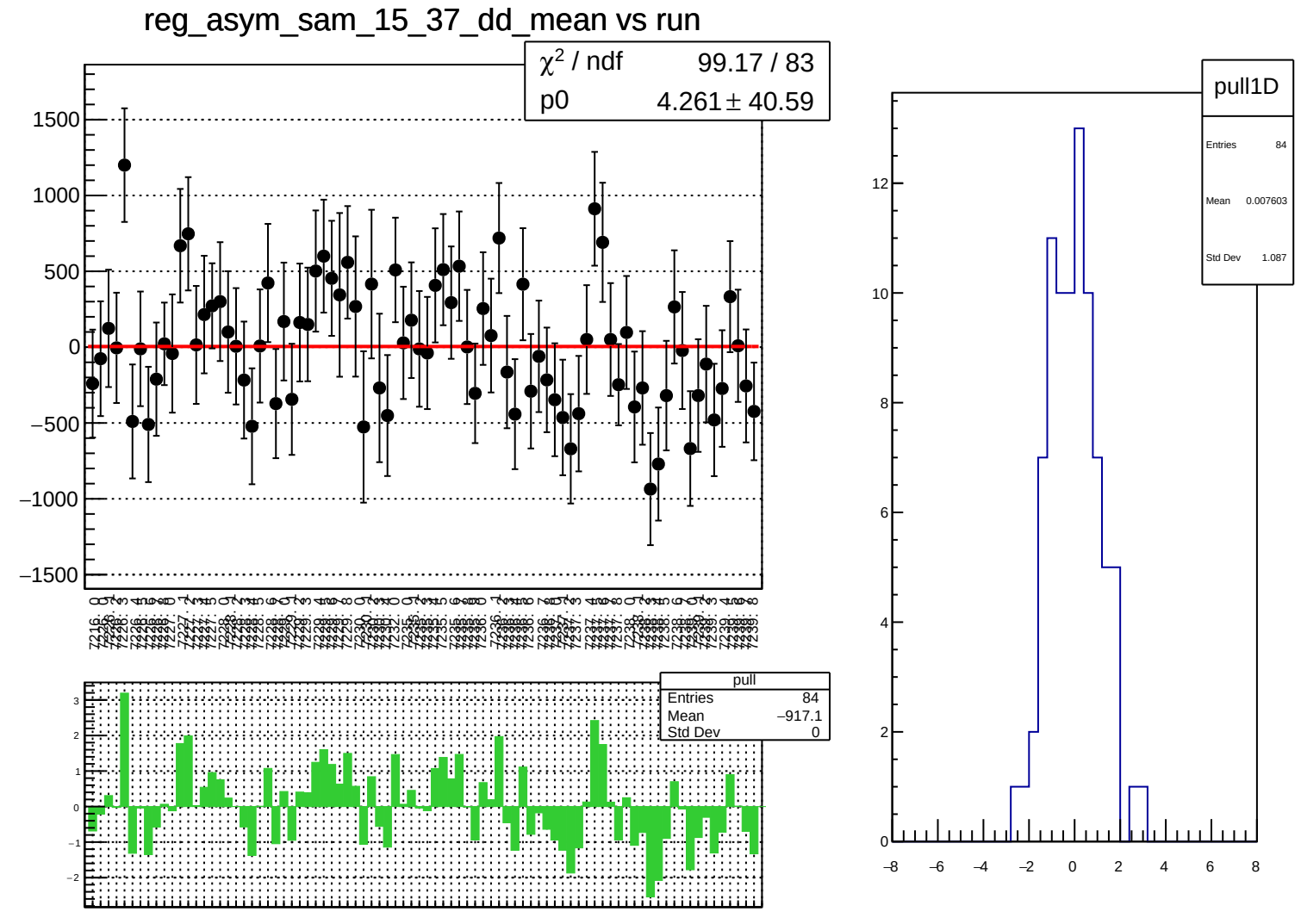

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 63.7 / 83
p0 0.009698 ± 0.01933
pull
Entries 84
Mean −155
Std Dev 0
pull1D
Entries 84
Mean −0.004721
Std Dev 0.8708

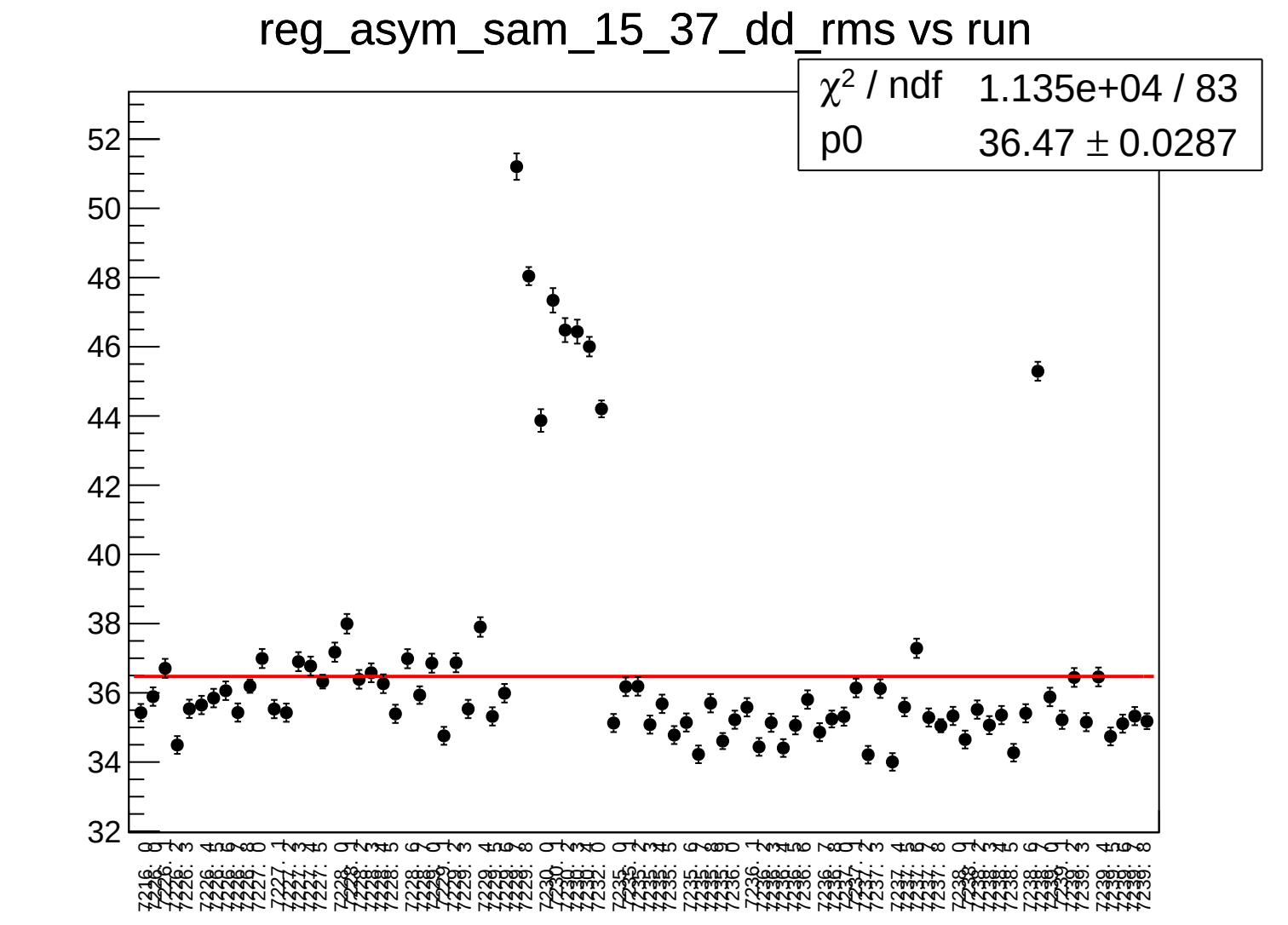

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.565e+04 / 83
p0 17.35 ± 0.01367
22
20
18
16
14

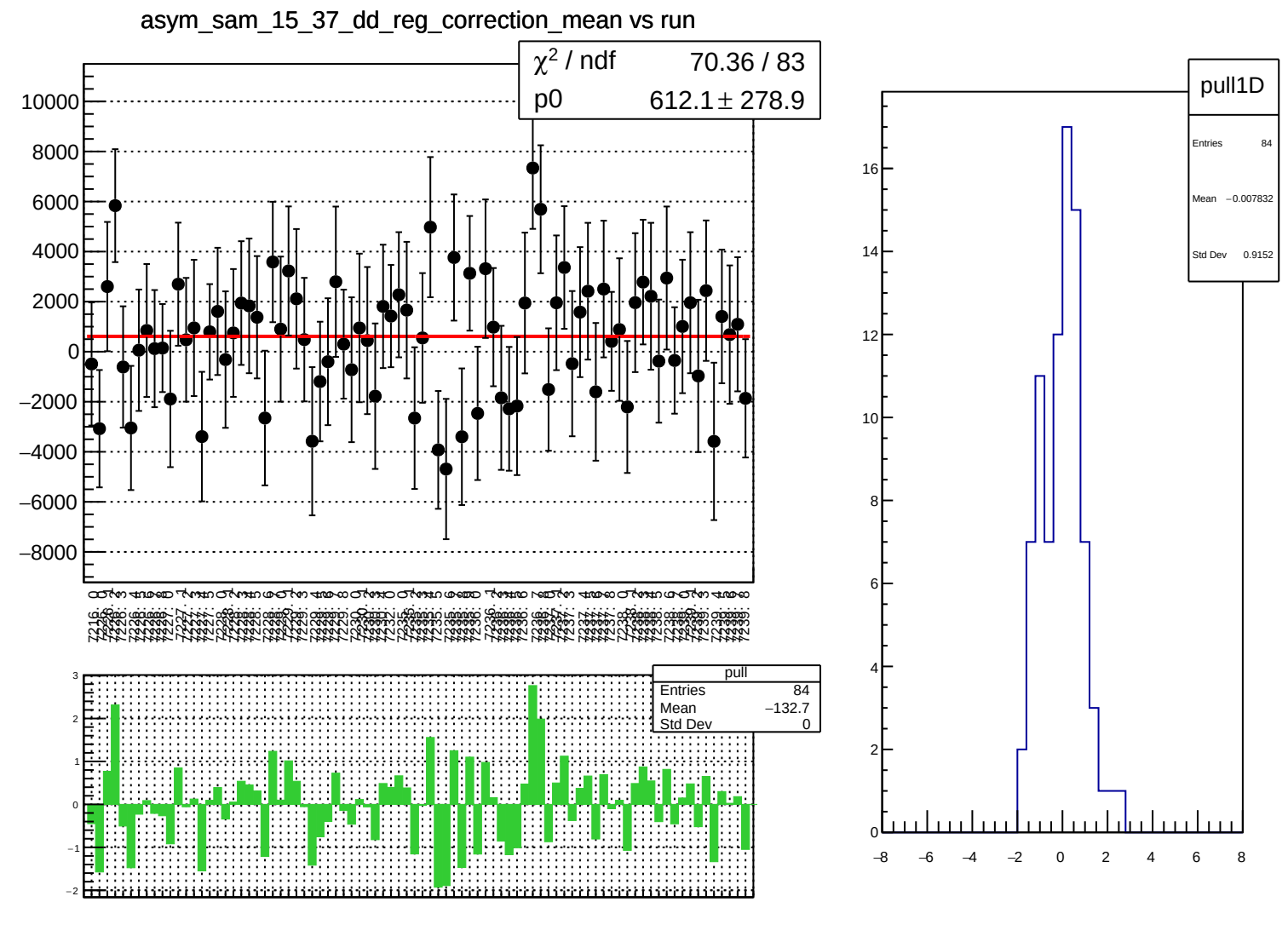

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.48 / 83
p0 −3.144e−15 ± 4.778e−15
pull
Entries 84
Mean 201.6
Std Dev 0

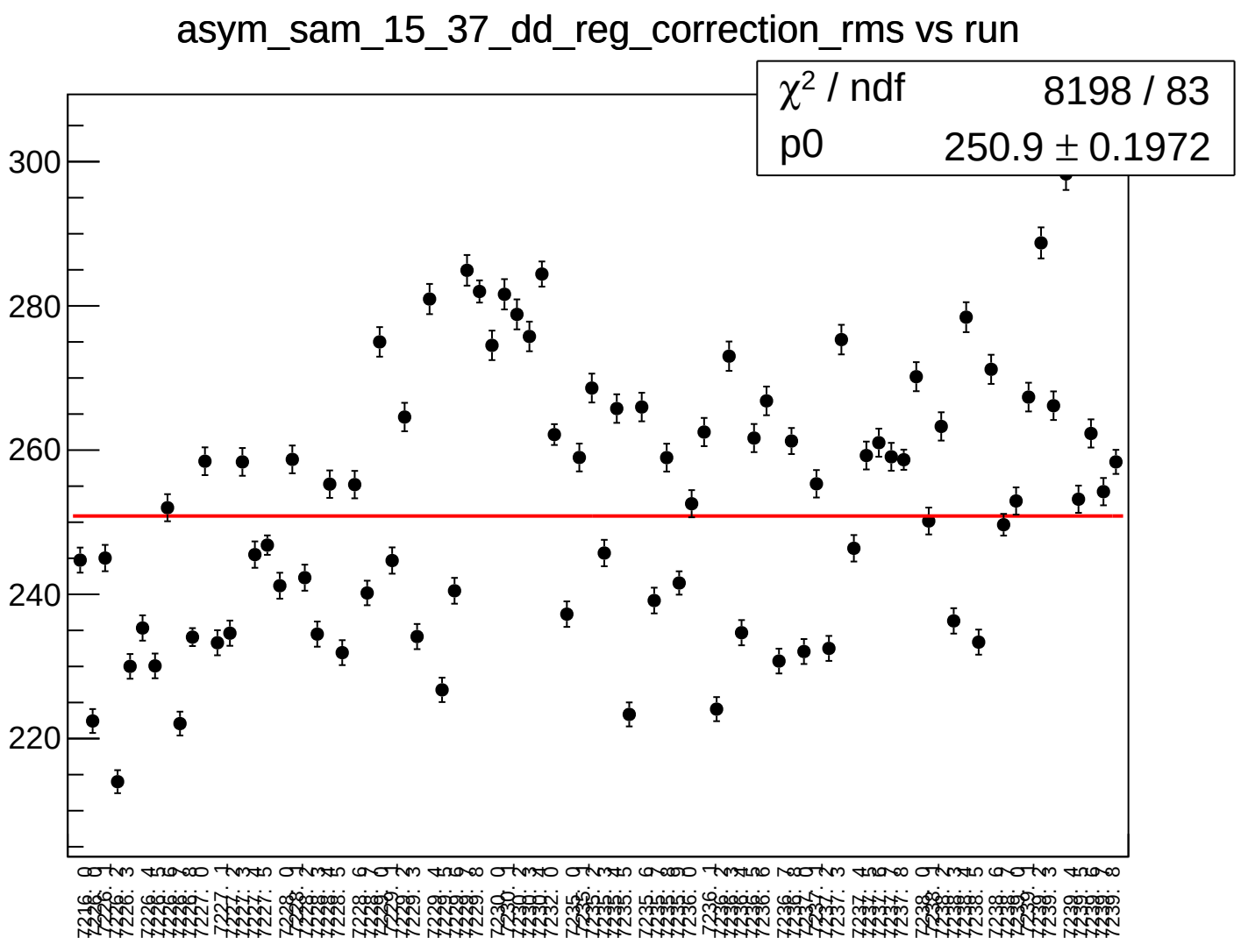

pull1D
Entries 84
Mean 0.03104
Std Dev 1.014

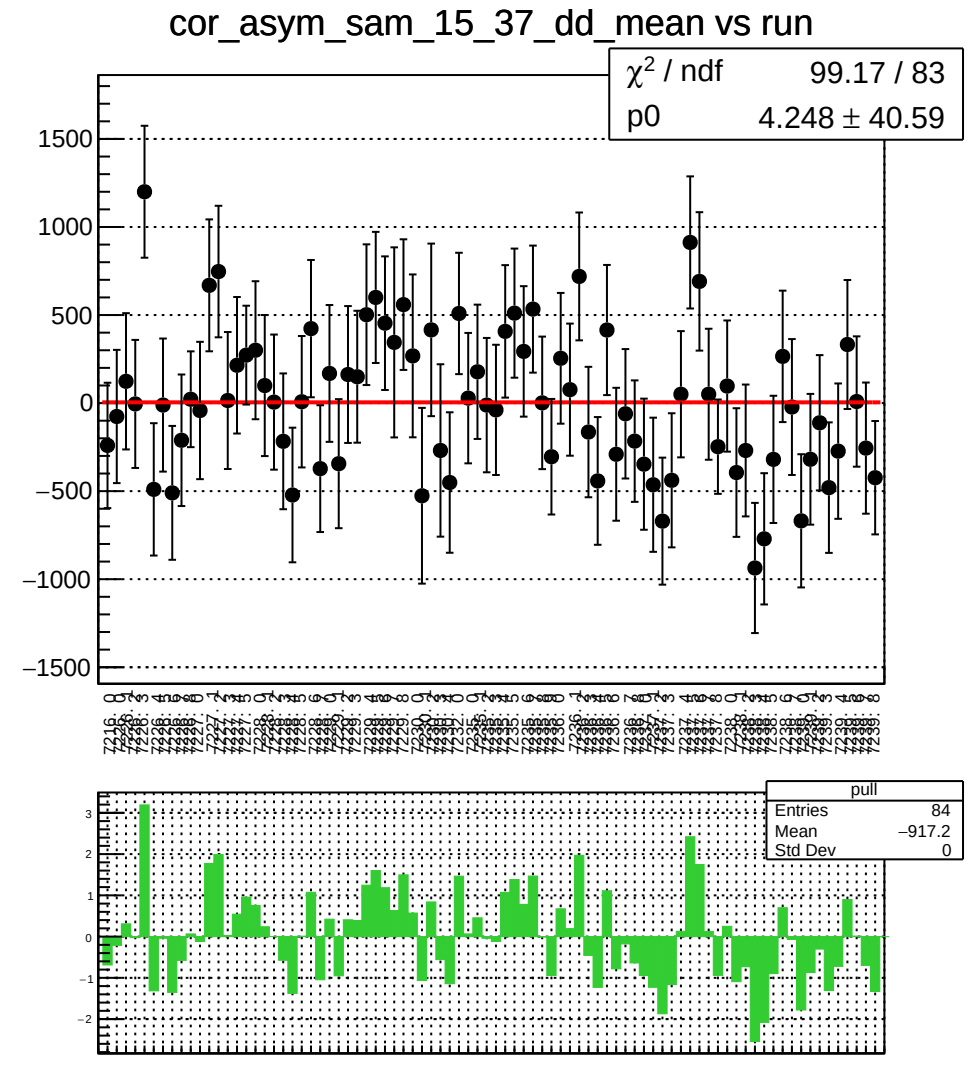

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.146e+05 / 83
p0 3.399e−12 ± 3.379e−15
18
16
14
12
10
8
6
4
2

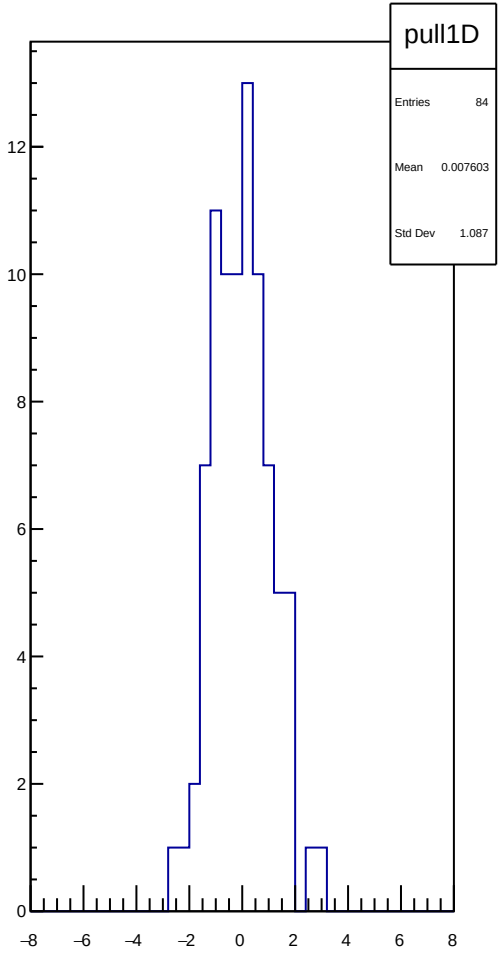

reg_asym_sam_15_37_dd_mean vs run
χ^2 / ndf 99.17 / 83
p0 4.261 ± 40.59
1500
1000
500
0
−500
−1000
−1500
pull
Entries 84
Mean −917.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.007603
Std Dev 1.087
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

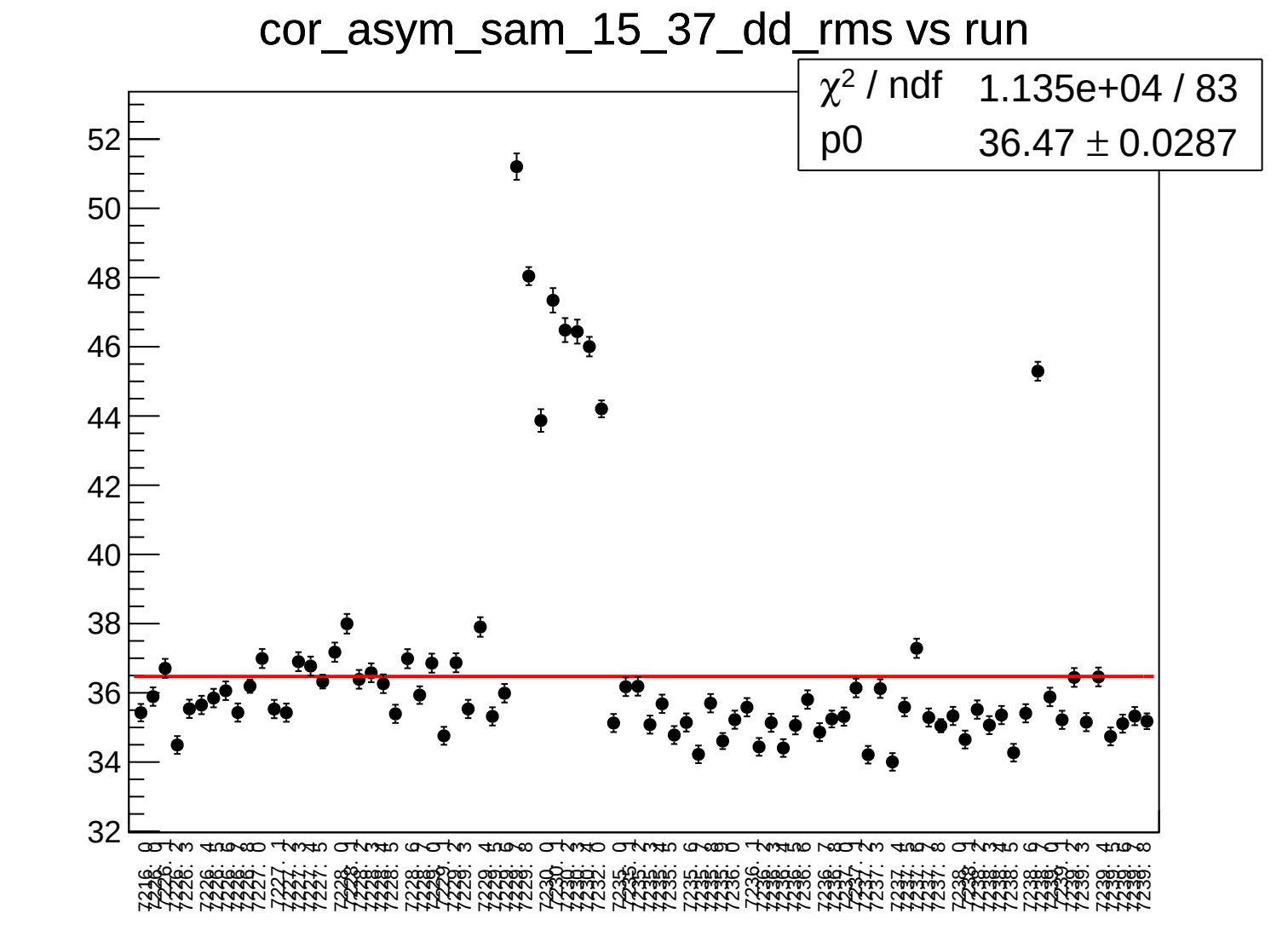

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.135e+04 / 83
p0 36.47 ± 0.0287
52
50
48
46
44
42
40
38
36
34
32

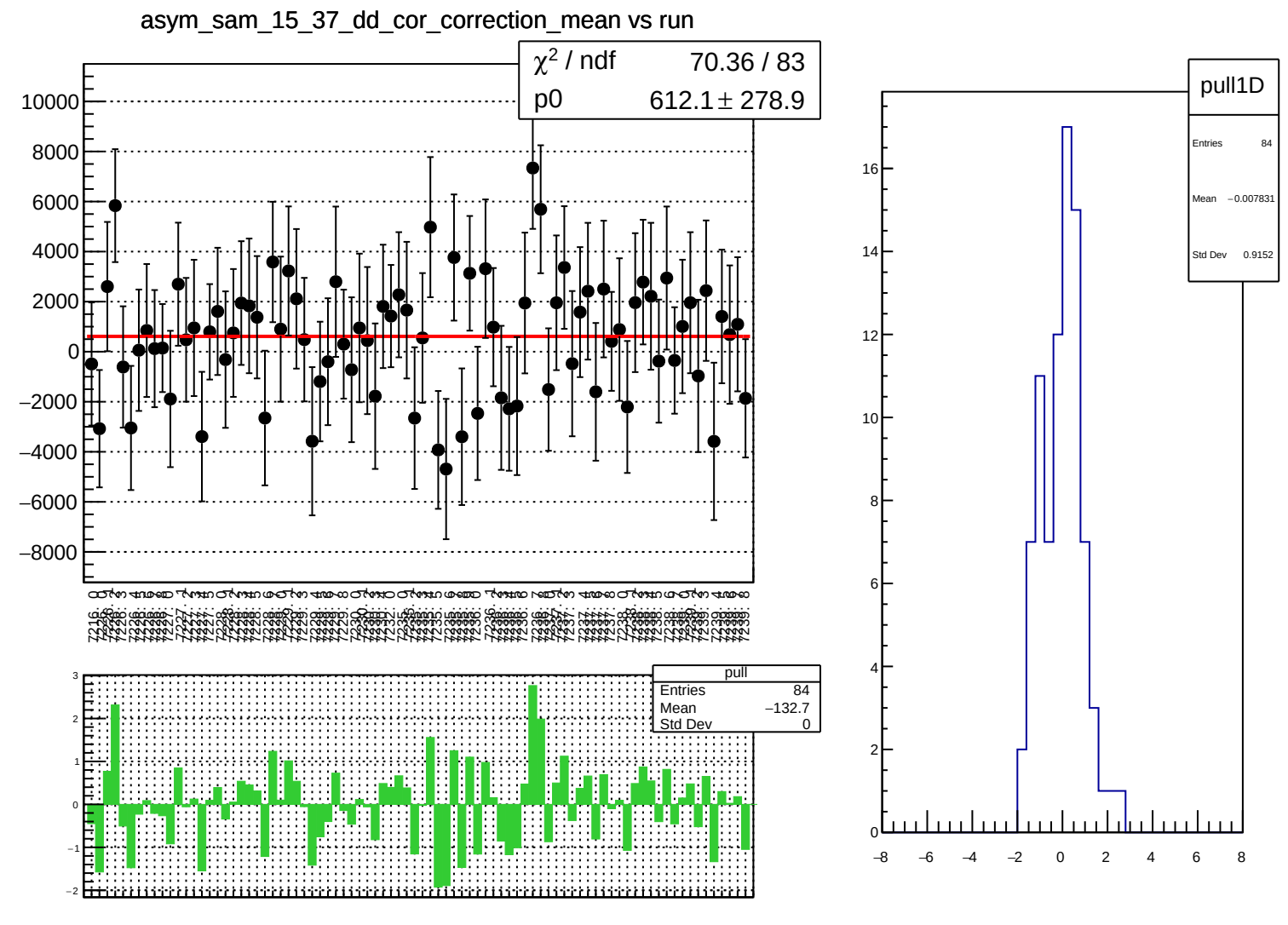

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 70.36 / 83
p0 612.1 ± 278.9
pull
Entries 84
Mean −132.7
Std Dev 0
pull1D
Entries 84
Mean −0.007832
Std Dev 0.9152

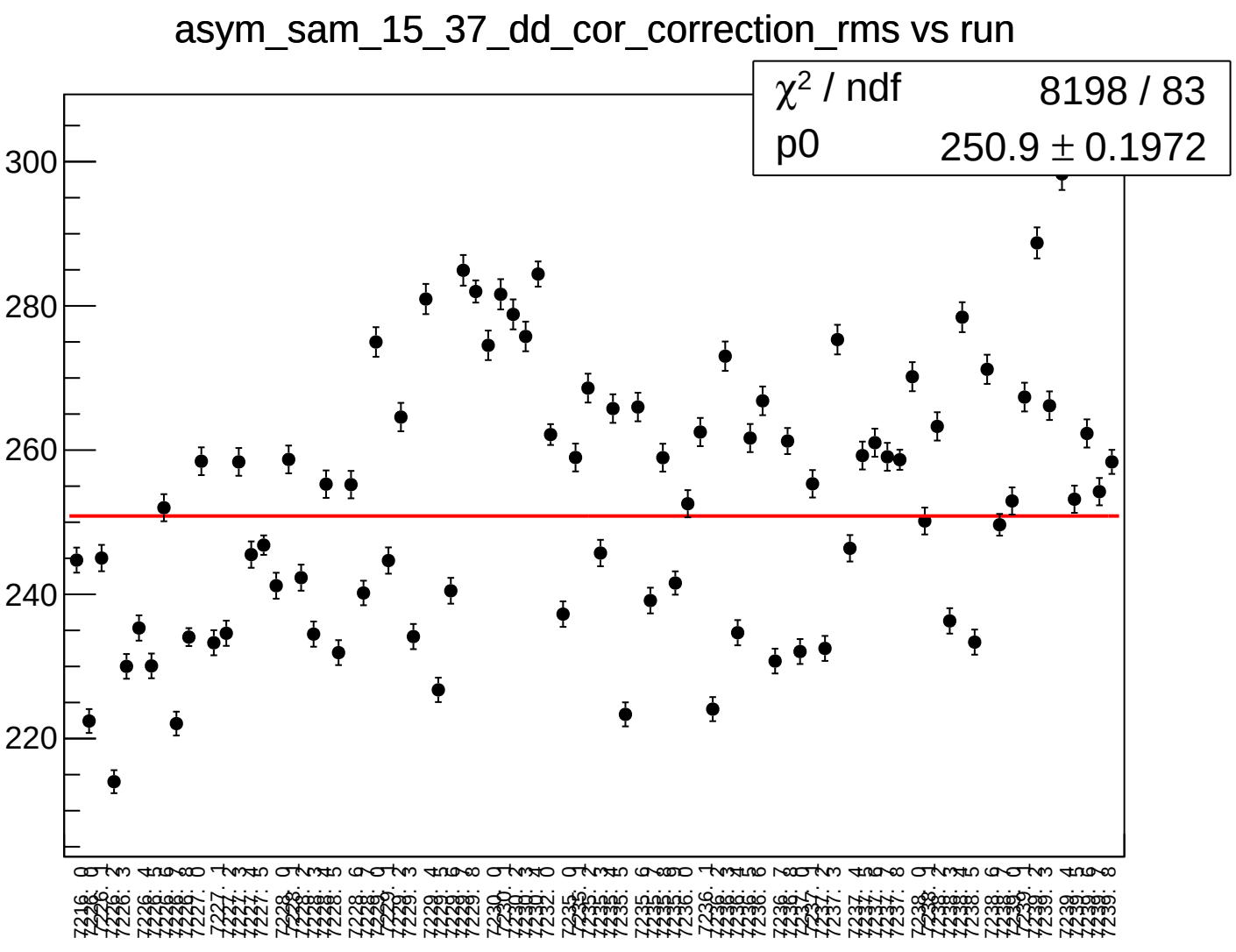

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 8198 / 83
p0 250.9 ± 0.1972
300
280
260
240
220

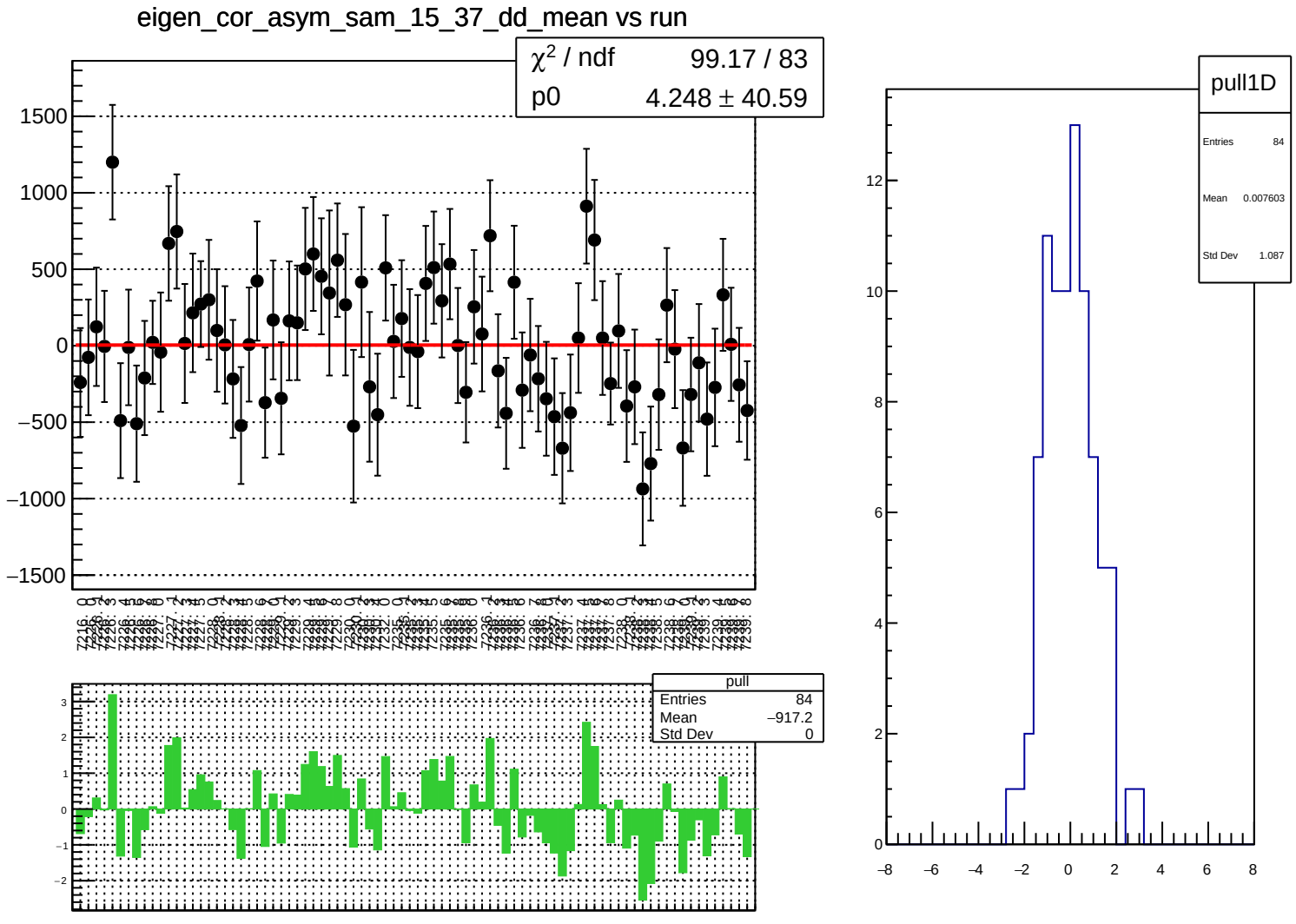

cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 99.17 / 83
p0 4.248 ± 40.59
1500
1000
500
0
−500
−1000
−1500
pull
Entries 84
Mean −917.2
Std Dev 0
3
2
1
0
−1
−2

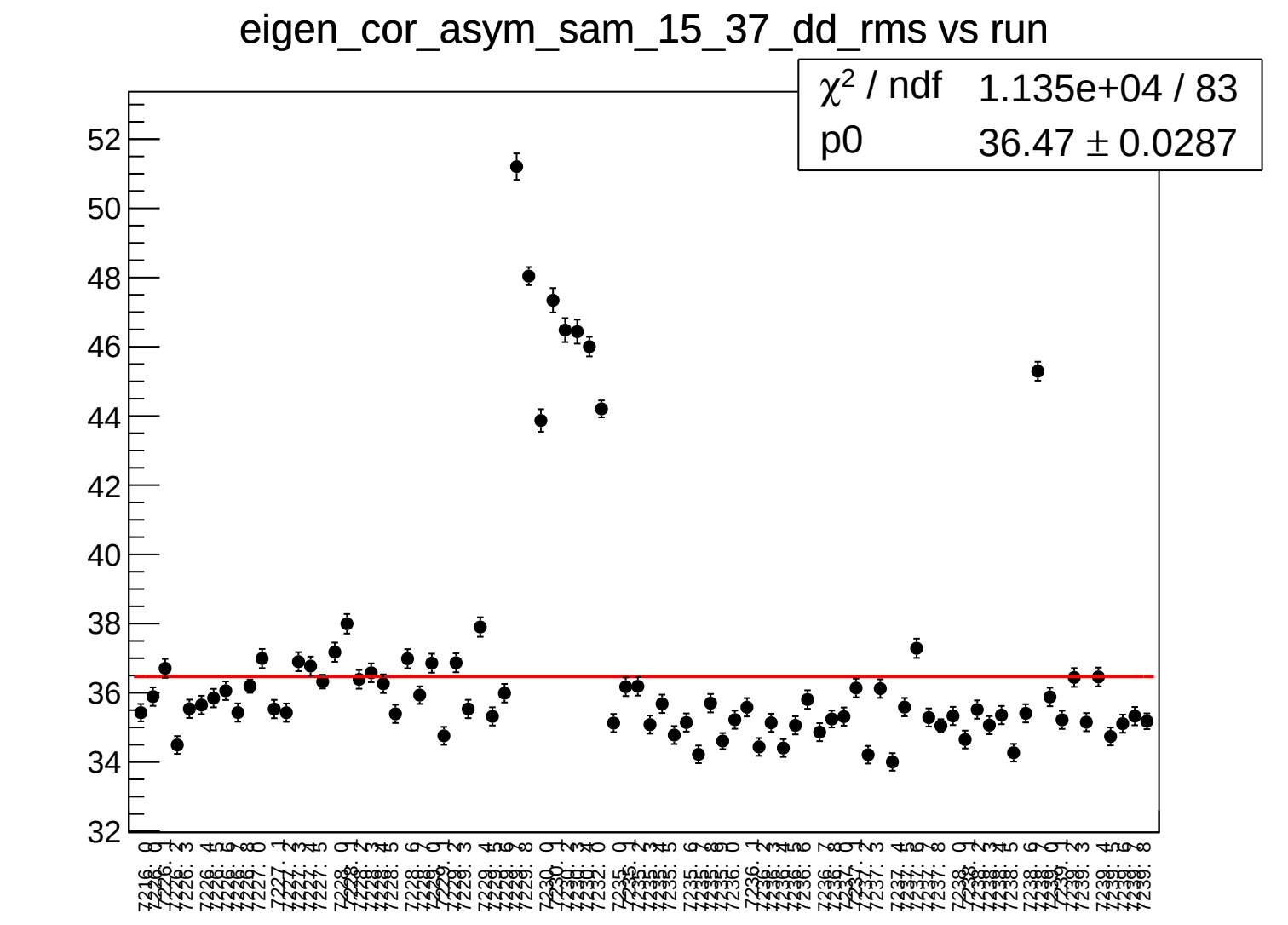

pull1D
Entries 84
Mean 0.007603
Std Dev 1.087
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

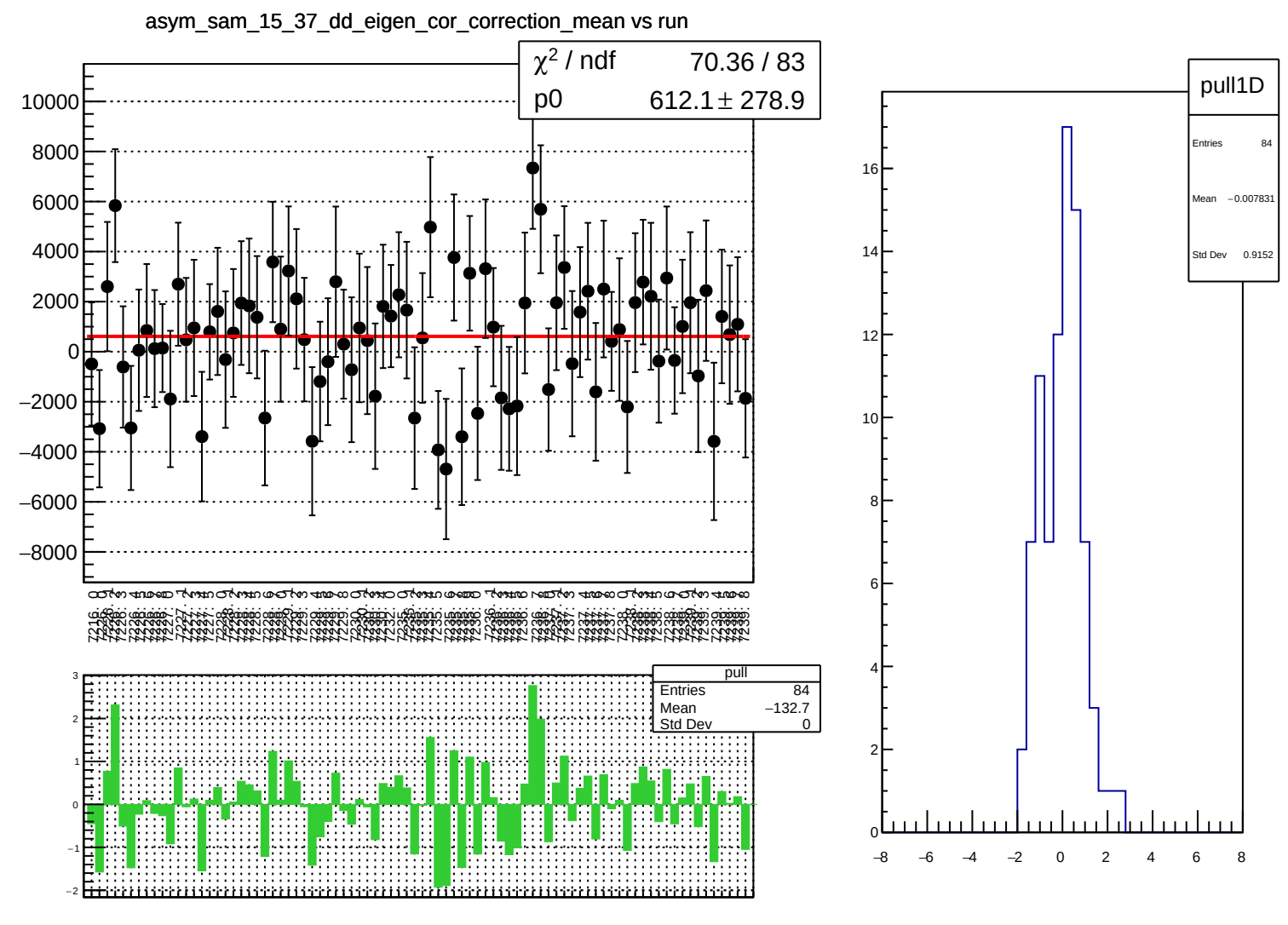

cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.135e+04 / 83
p0 36.47 ± 0.0287
52
50
48
46
44
42
40
38
36
34
32

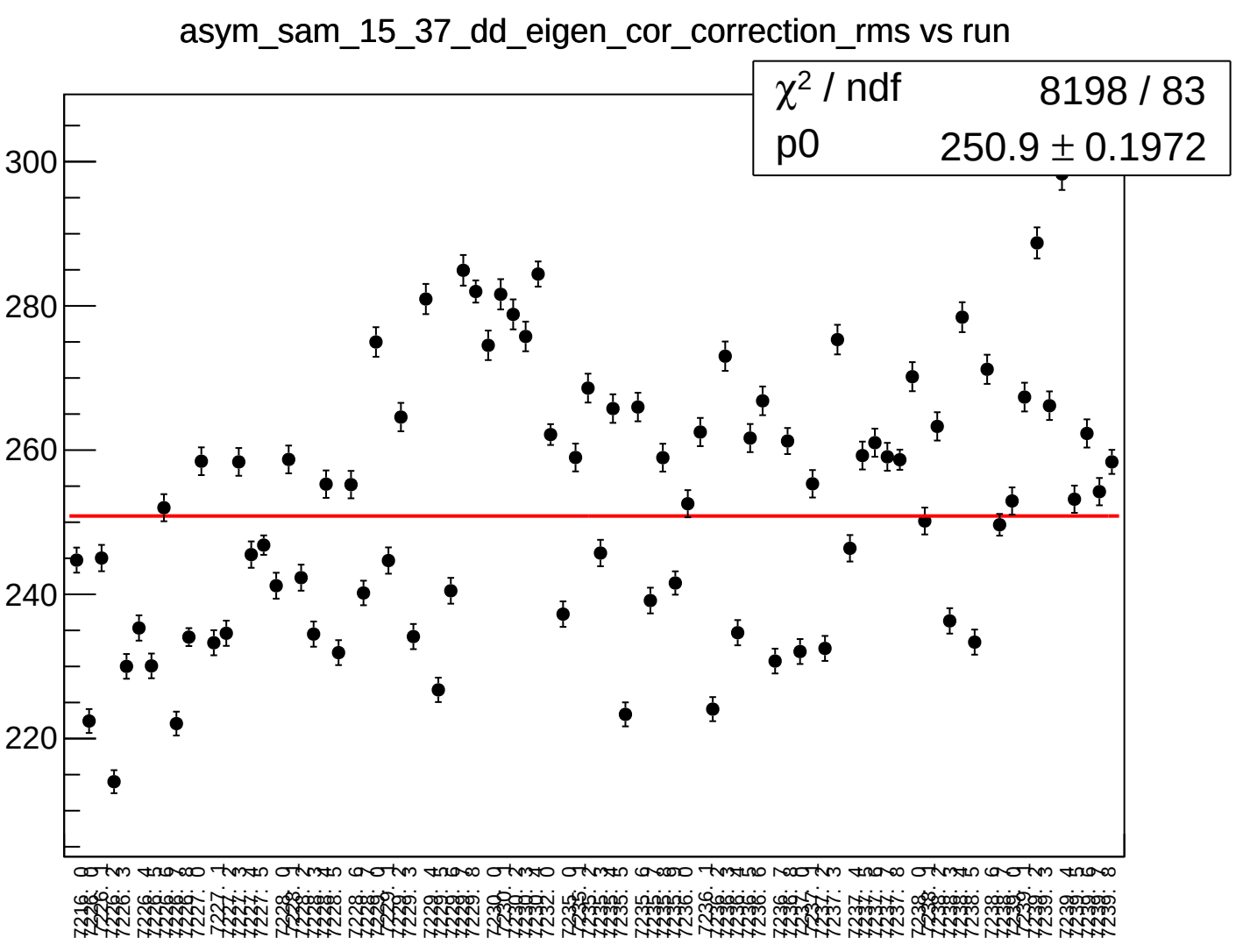

asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 70.36 / 83
p0 612.1 ± 278.9
pull
Entries 84
Mean −132.7
Std Dev 0
pull1D
Entries 84
Mean −0.007831
Std Dev 0.9152

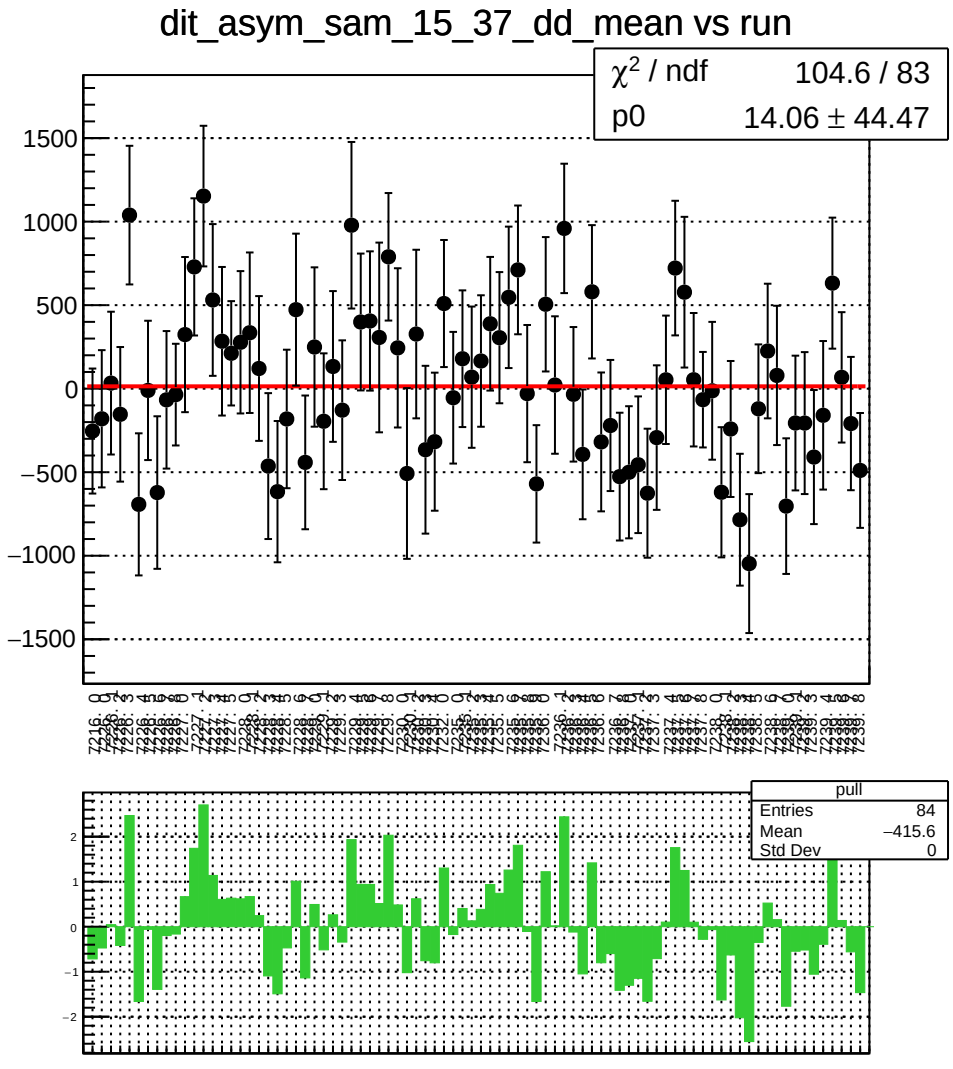

asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 8198 / 83
p0 250.9 ± 0.1972
300
280
260
240
220

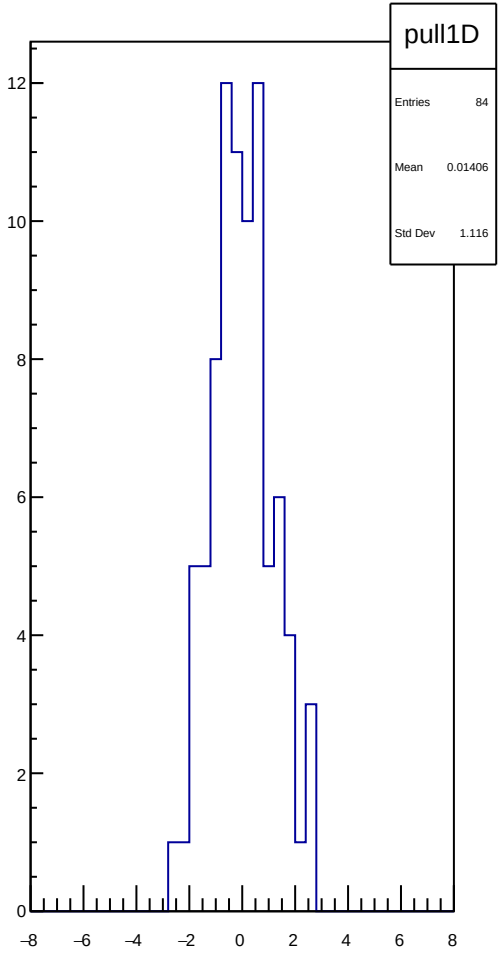

eigen_cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 99.17 / 83
p0 4.248 ± 40.59
pull
Entries 84
Mean −917.2
Std Dev 0
pull1D
Entries 84
Mean 0.007603
Std Dev 1.087

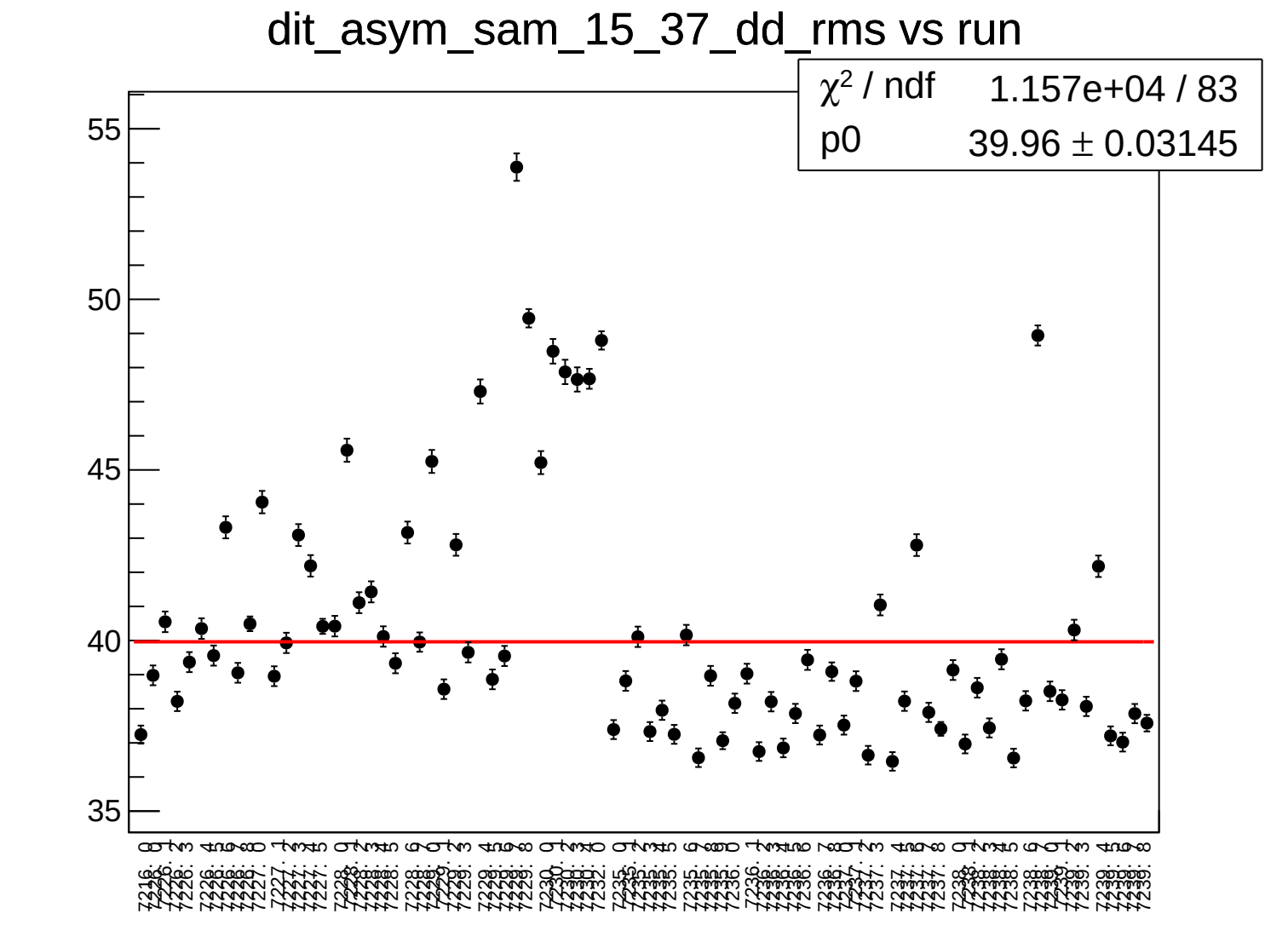

eigen_cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.135e+04 / 83
p0 36.47 ± 0.0287
52
50
48
46
44
42
40
38
36
34
32

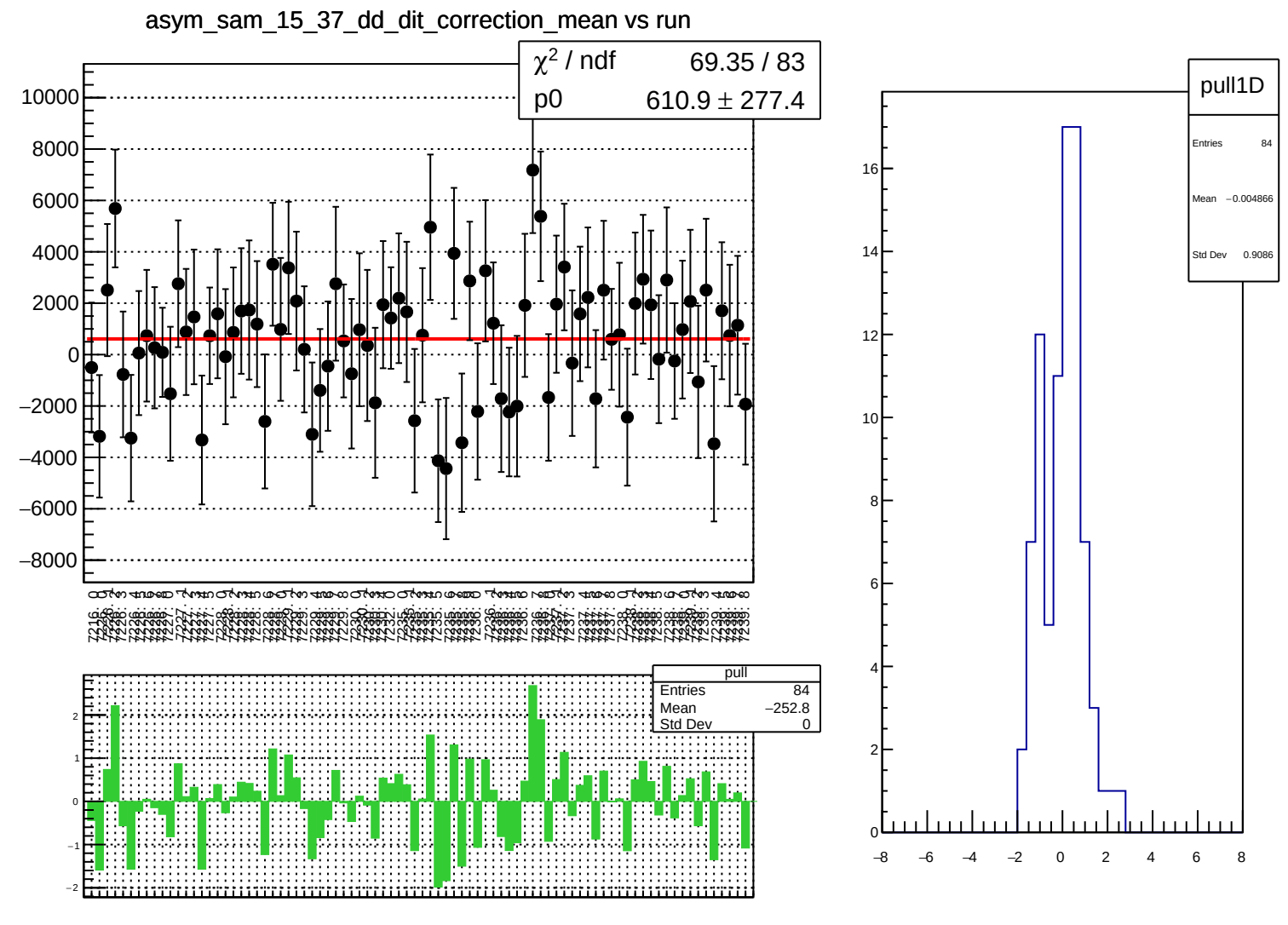

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 70.36 / 83
p0 612.1 ± 278.9
pull
Entries 84
Mean −132.7
Std Dev 0
pull1D
Entries 84
Mean −0.007831
Std Dev 0.9152

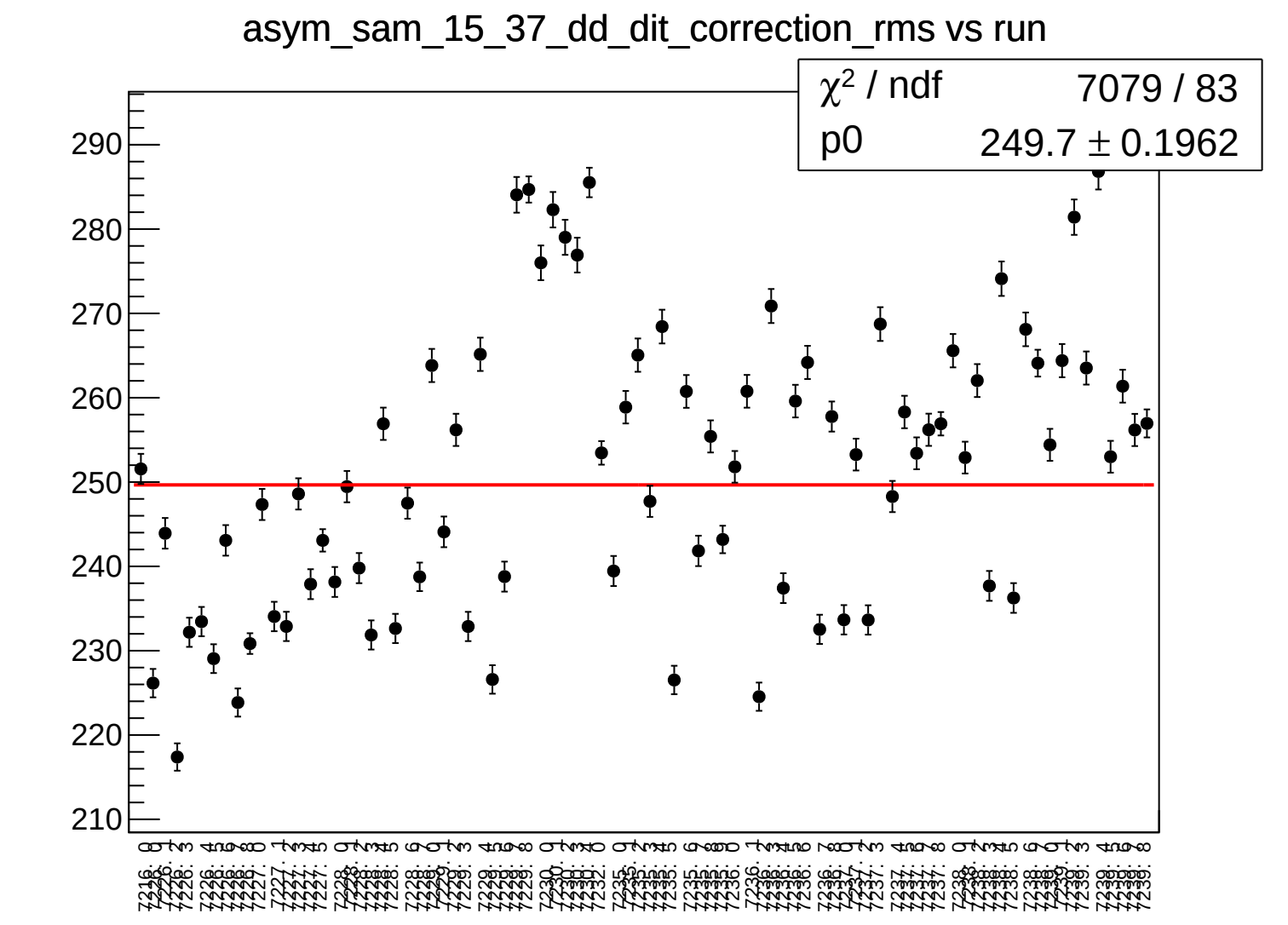

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 8198 / 83
p0 250.9 ± 0.1972
300
280
260
240
220

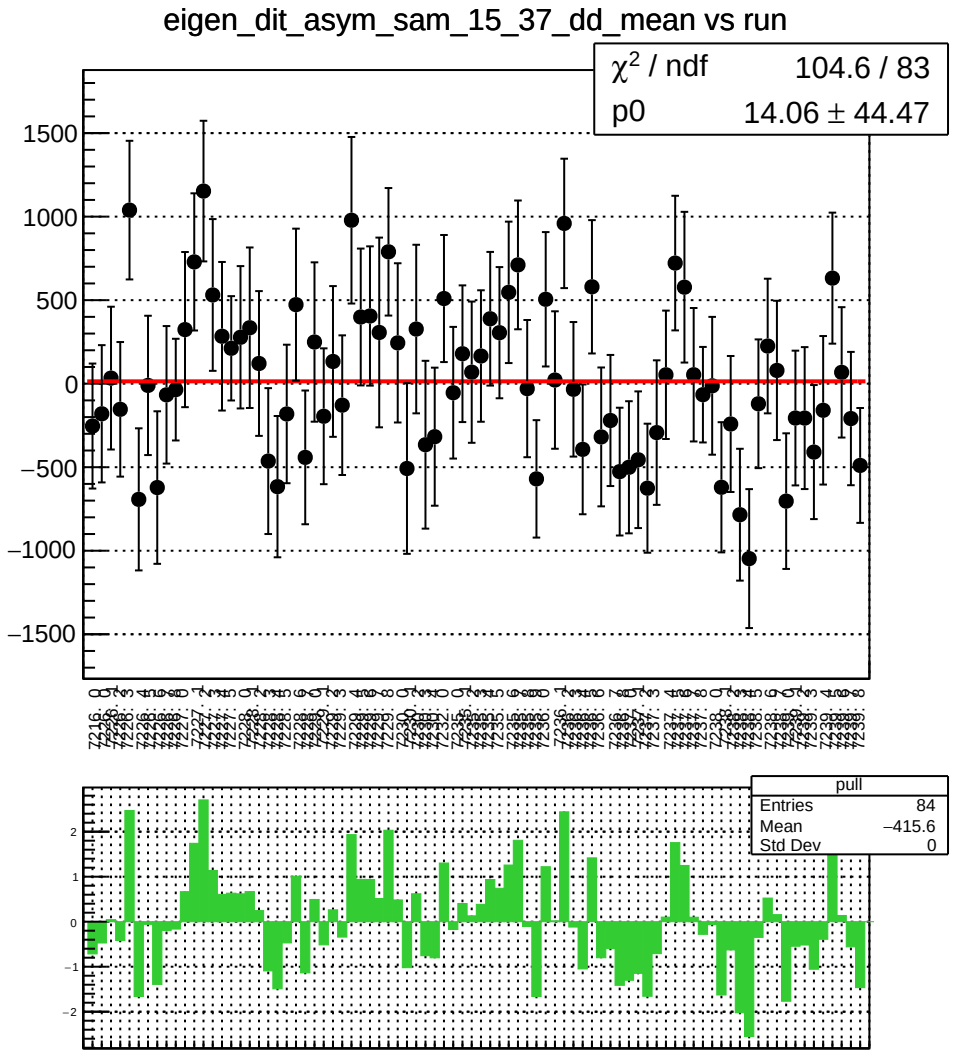

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 104.6 / 83
p0 14.06 ± 44.47
pull
Entries 84
Mean −415.6
Std Dev 0

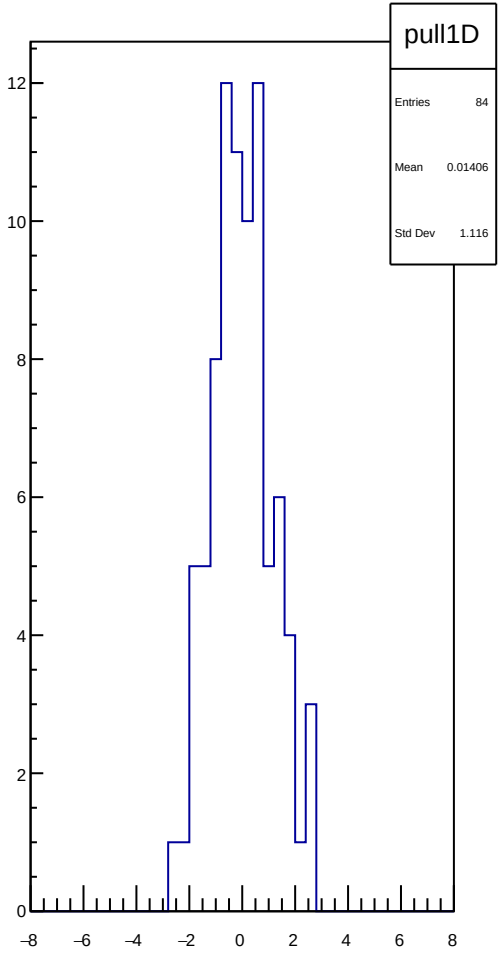

pull1D
Entries 84
Mean 0.01406
Std Dev 1.116

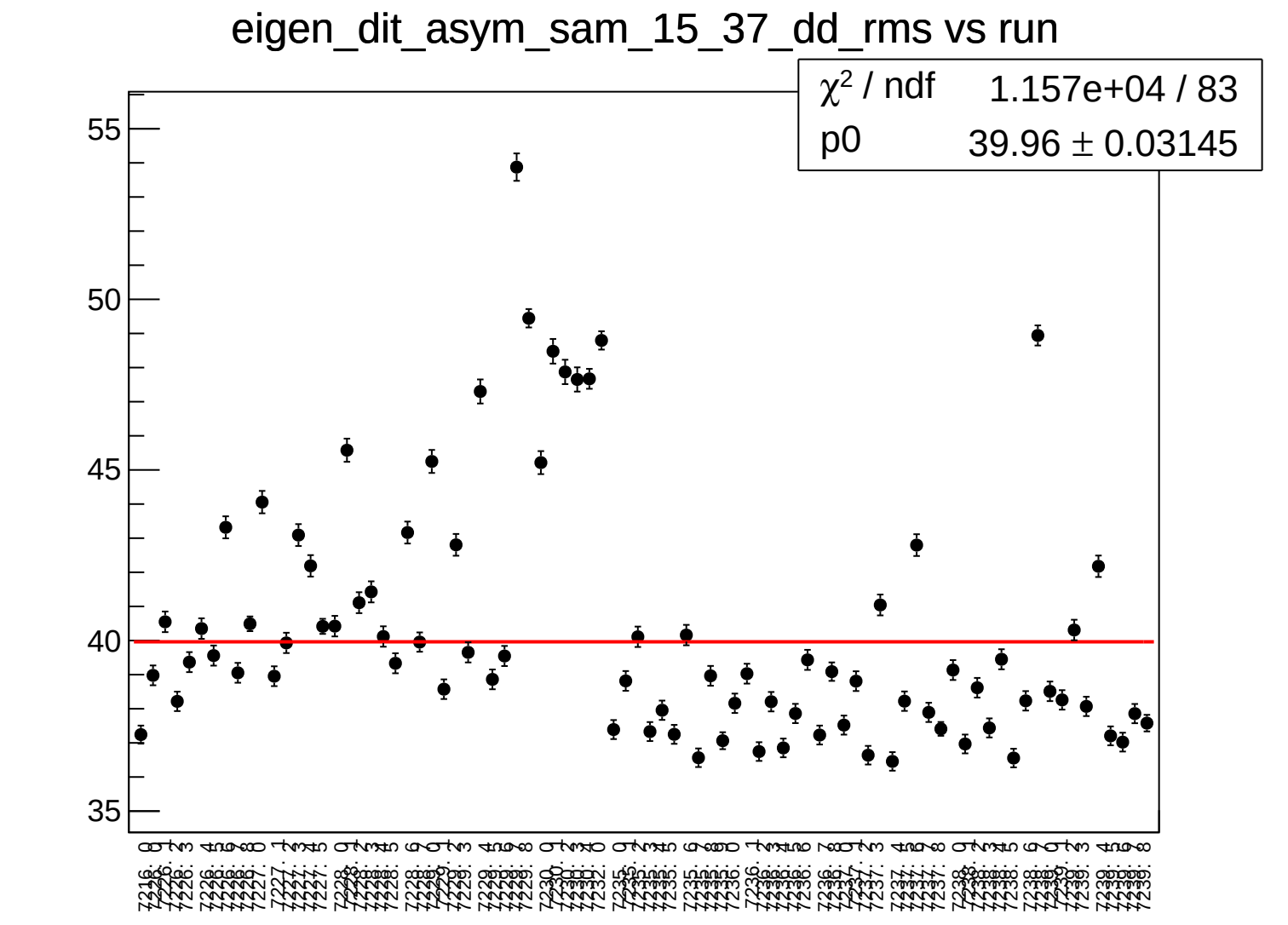

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.157e+04 / 83
p0 39.96 ± 0.03145
55
50
45
40
35

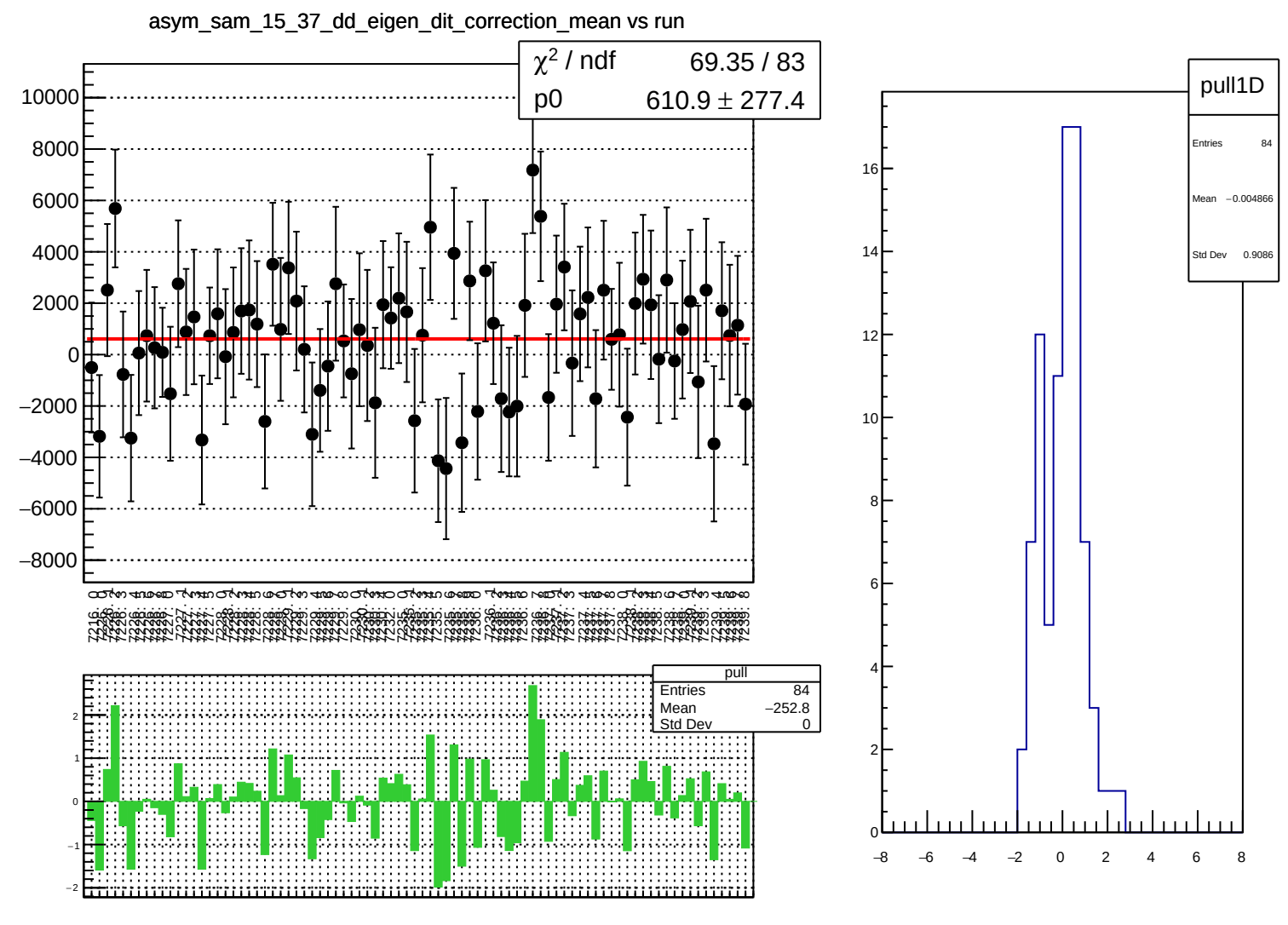

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 69.35 / 83
p0 610.9 ± 277.4
pull
Entries 84
Mean −252.8
Std Dev 0
pull1D
Entries 84
Mean −0.004866
Std Dev 0.9086

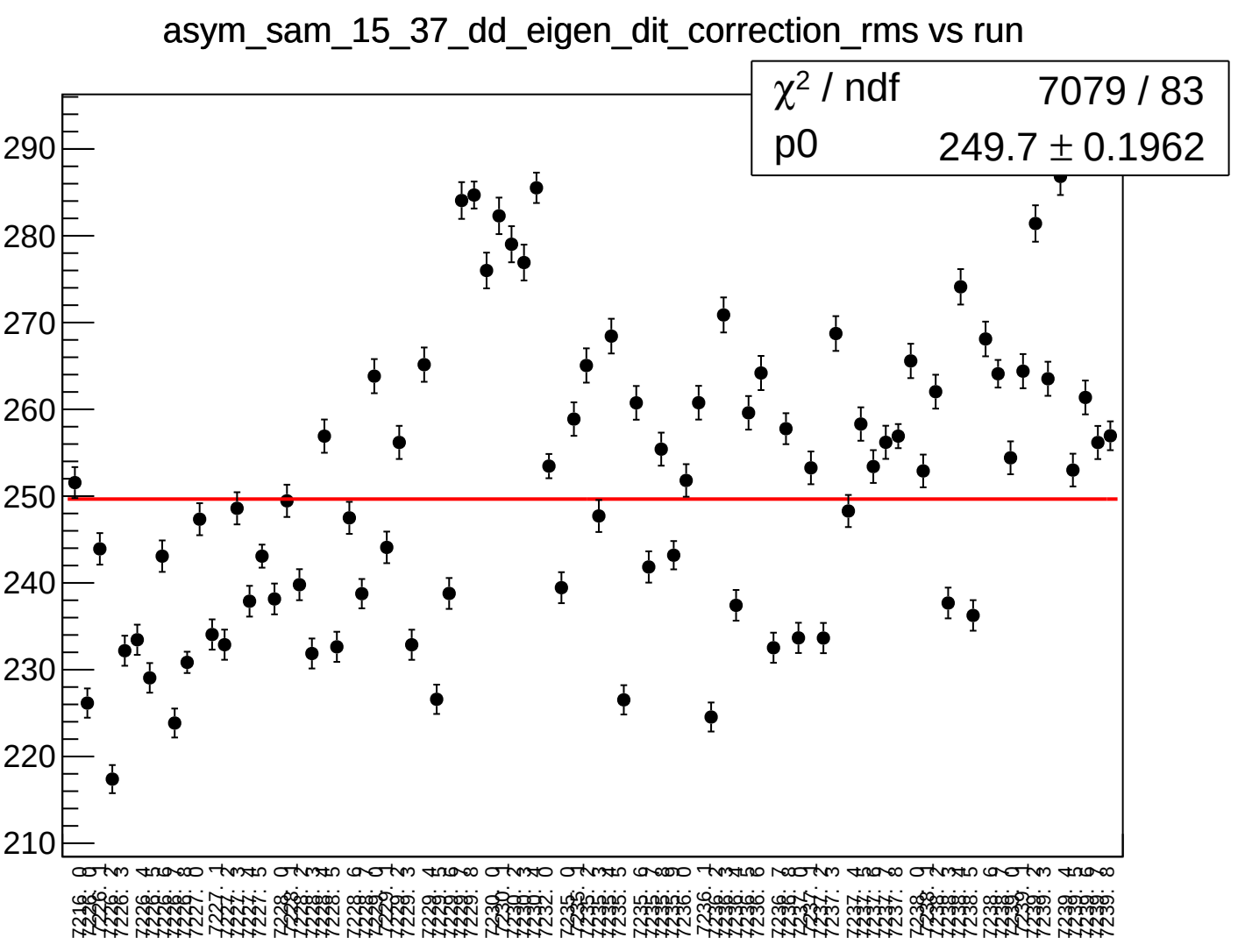

asym_sam_15_37_dd_dit_correction_rms vs run
χ^2 / ndf 7079 / 83
p0 249.7 ± 0.1962
290
280
270
260
250
240
230
220
210

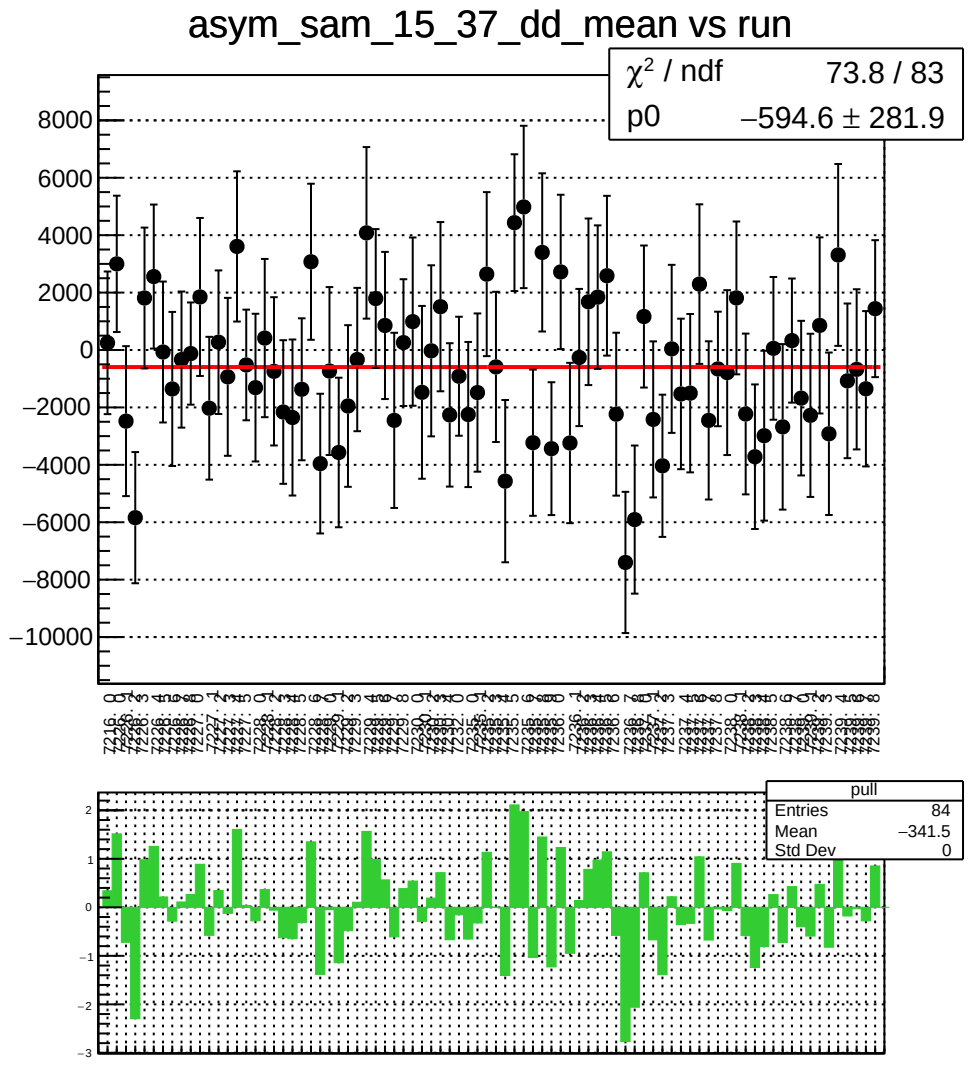

eigen_dit_asym_sam_15_37_dd_mean vs run
χ^2 / ndf 104.6 / 83
p0 14.06 ± 44.47
pull
Entries 84
Mean −415.6
Std Dev 0

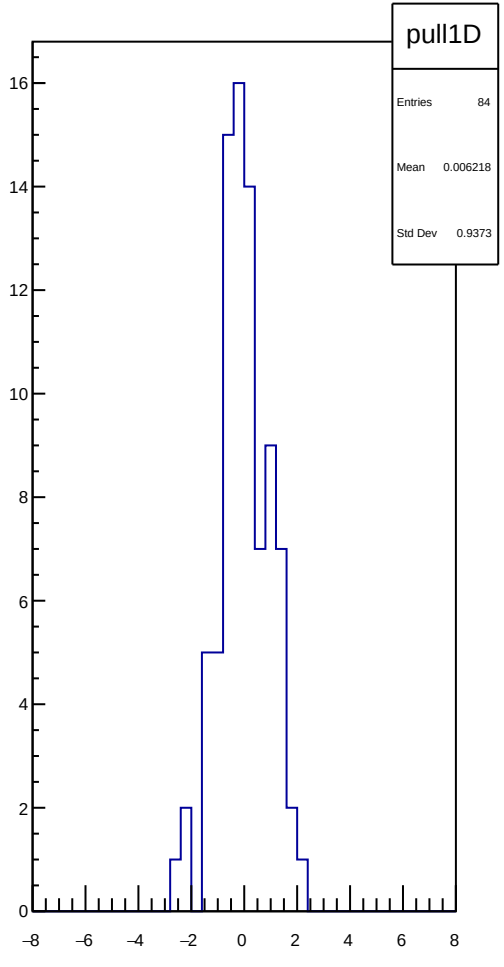

pull1D
Entries 84
Mean 0.01406
Std Dev 1.116

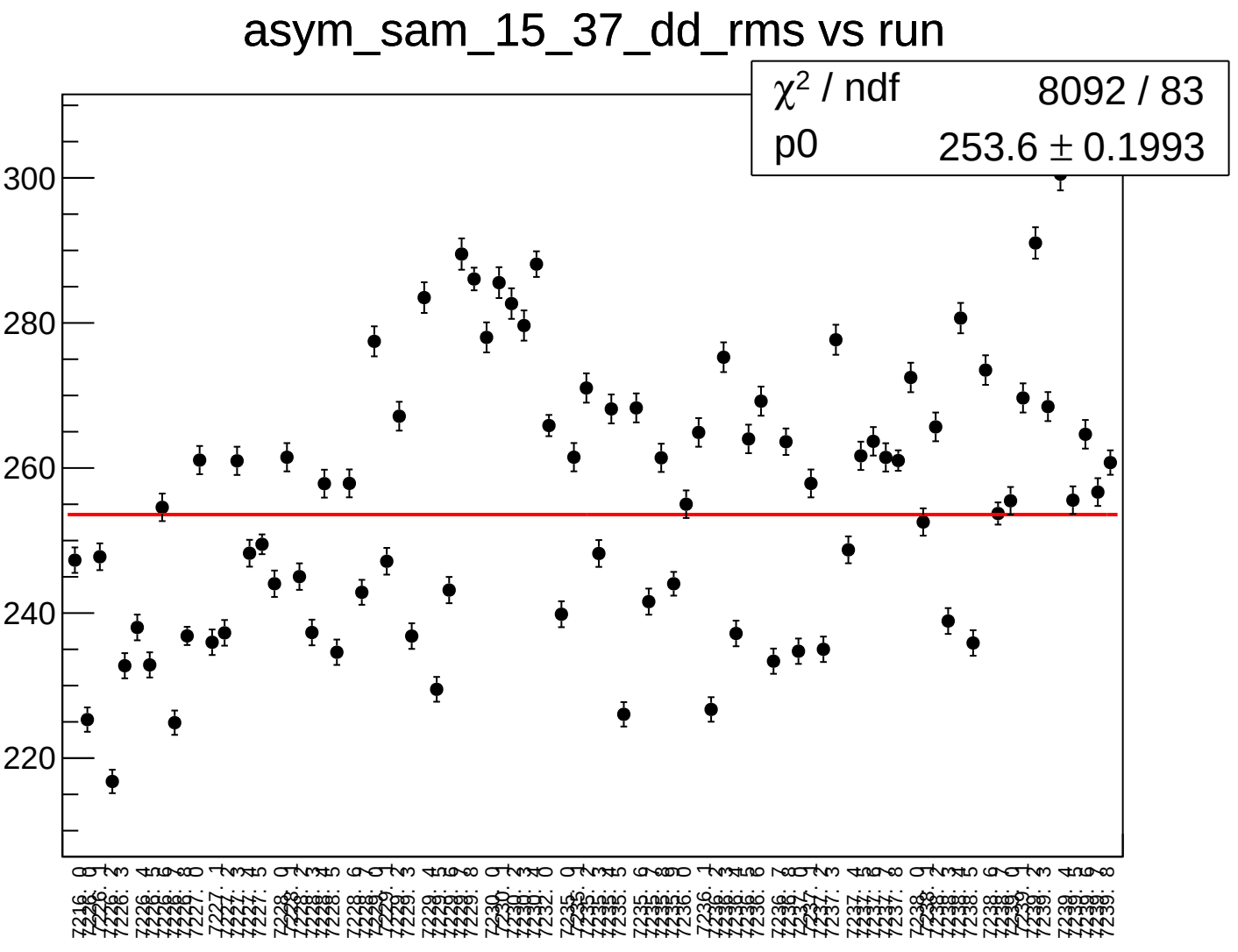

eigen_dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.157e+04 / 83
p0 39.96 ± 0.03145
55
50
45
40
35

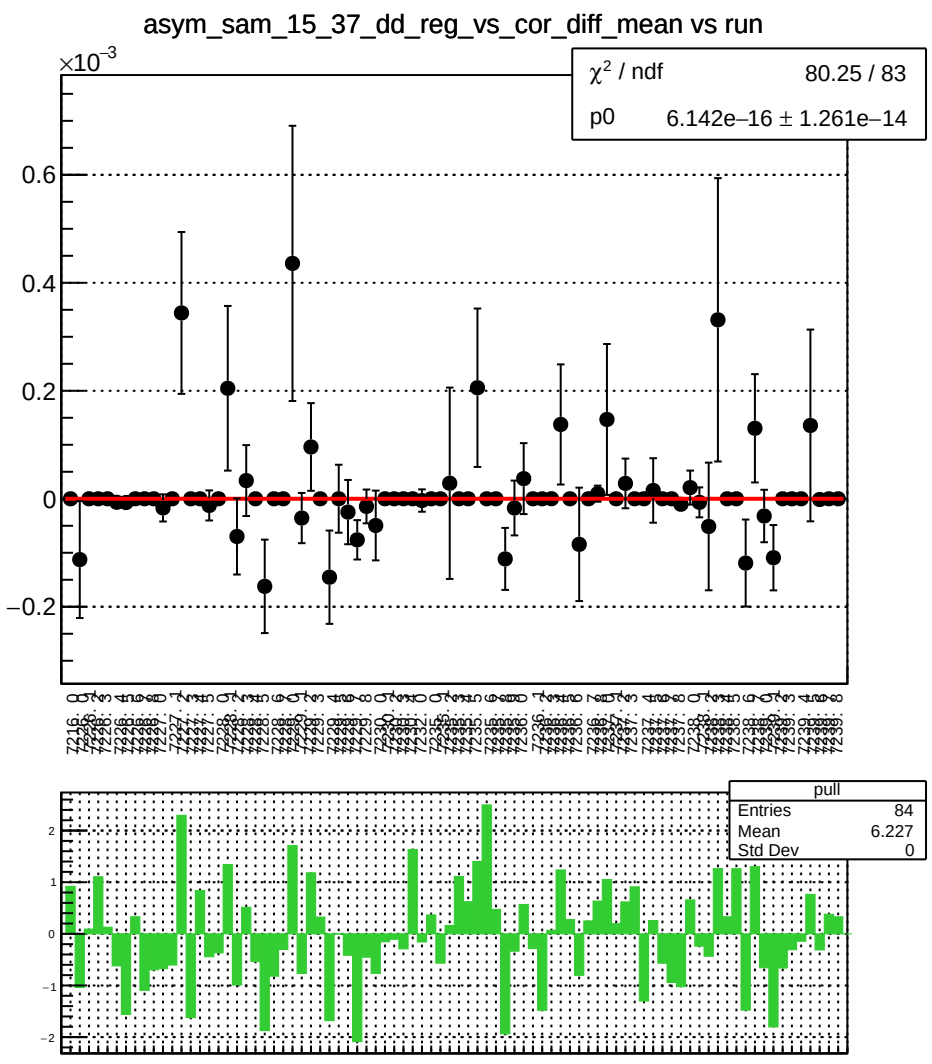

asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ^2 / ndf 69.35 / 83
p0 610.9 ± 277.4
pull
Entries 84
Mean −252.8
Std Dev 0
pull1D
Entries 84
Mean −0.004866
Std Dev 0.9086

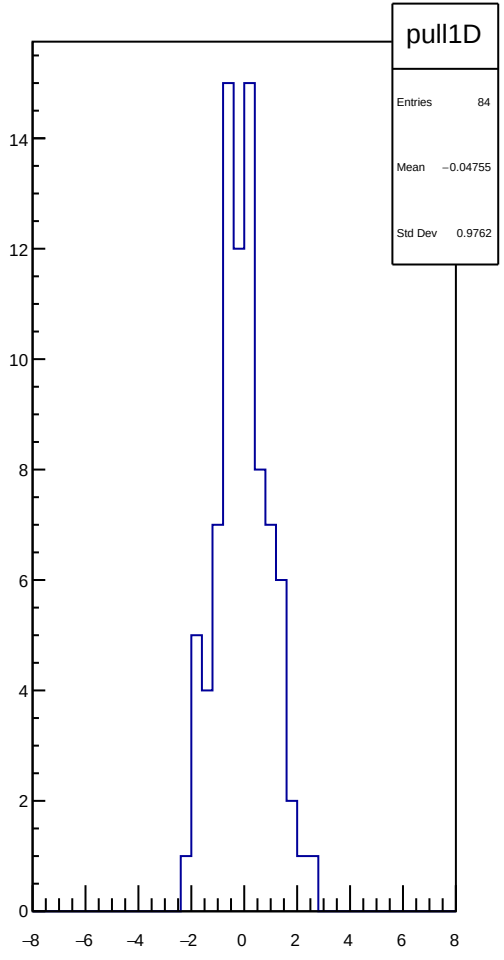

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 7079 / 83
p0 249.7 ± 0.1962
290
280
270
260
250
240
230
220
210

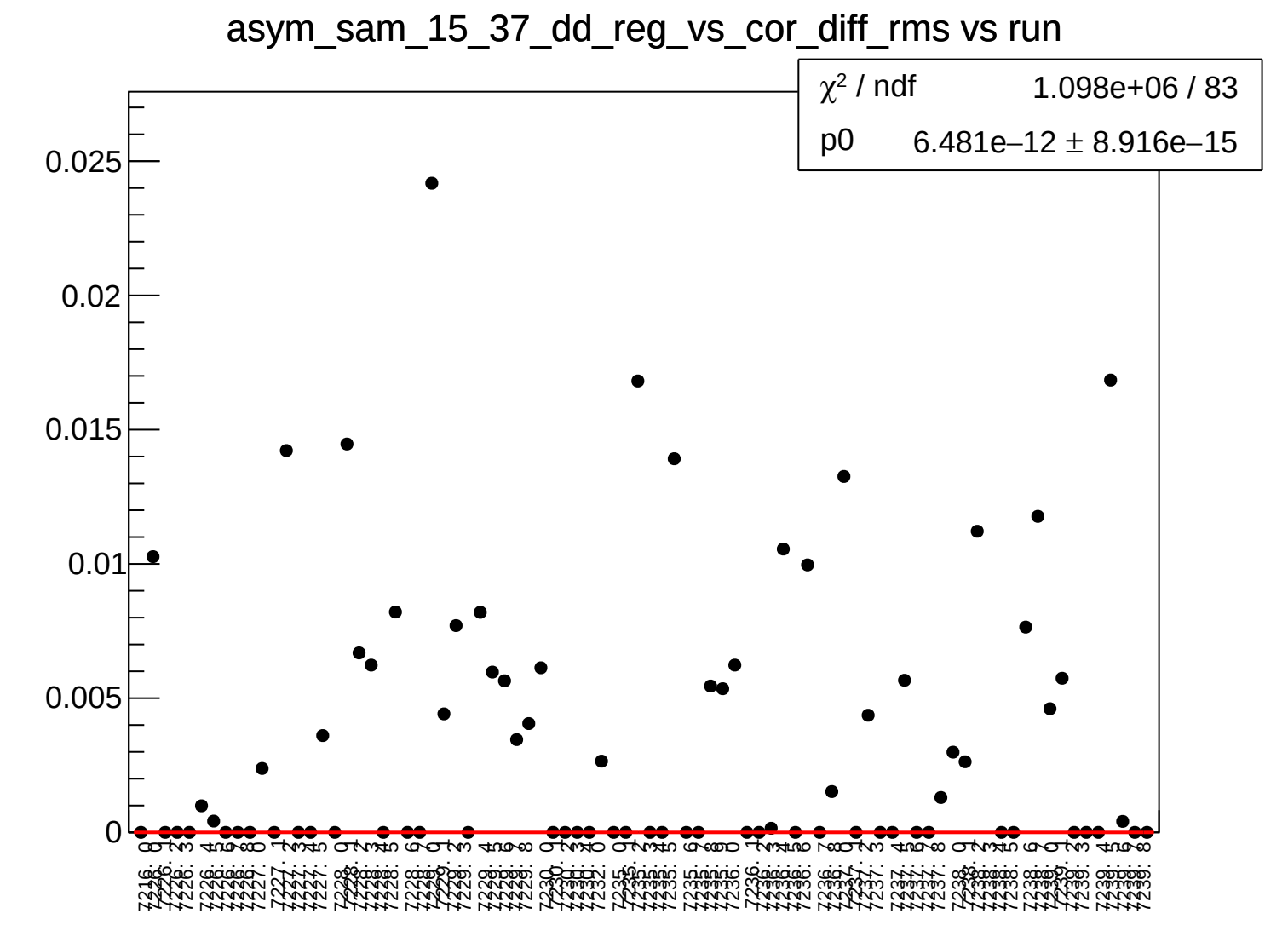

asym_sam_15_37_dd_mean vs run
χ² / ndf 73.8 / 83
p0 −594.6 ± 281.9
pull
Entries 84
Mean −341.5
Std Dev 0

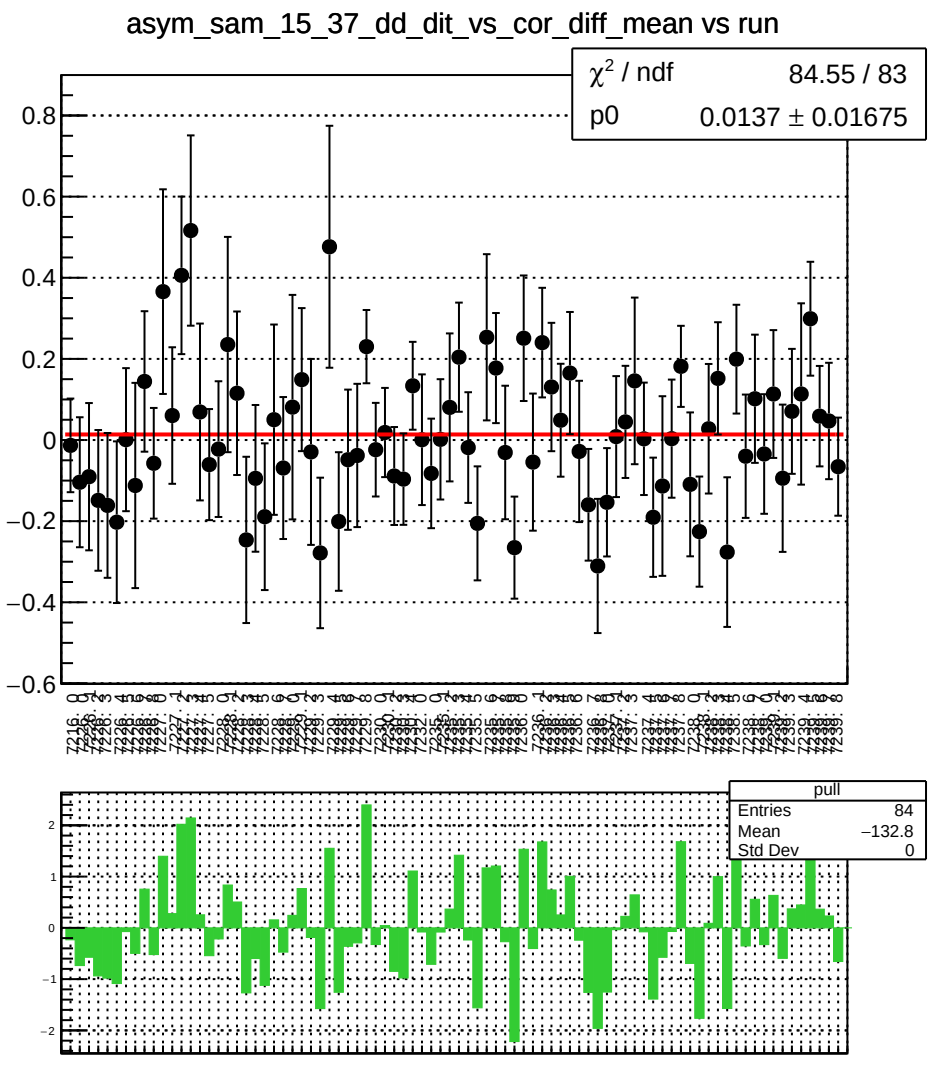

pull1D
Entries 84
Mean 0.006218
Std Dev 0.9373

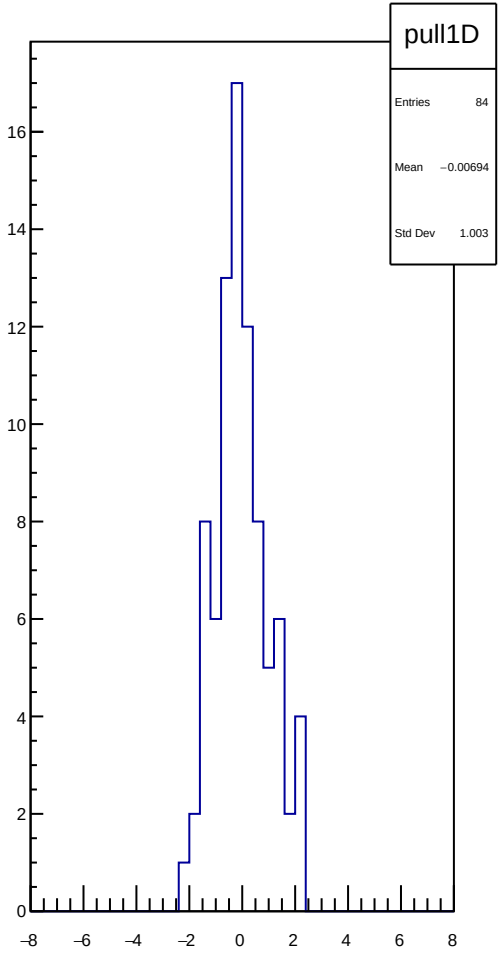

asym_sam_15_37_dd_rms vs run
χ² / ndf 8092 / 83
p0 253.6 ± 0.1993
300
280
260
240
220

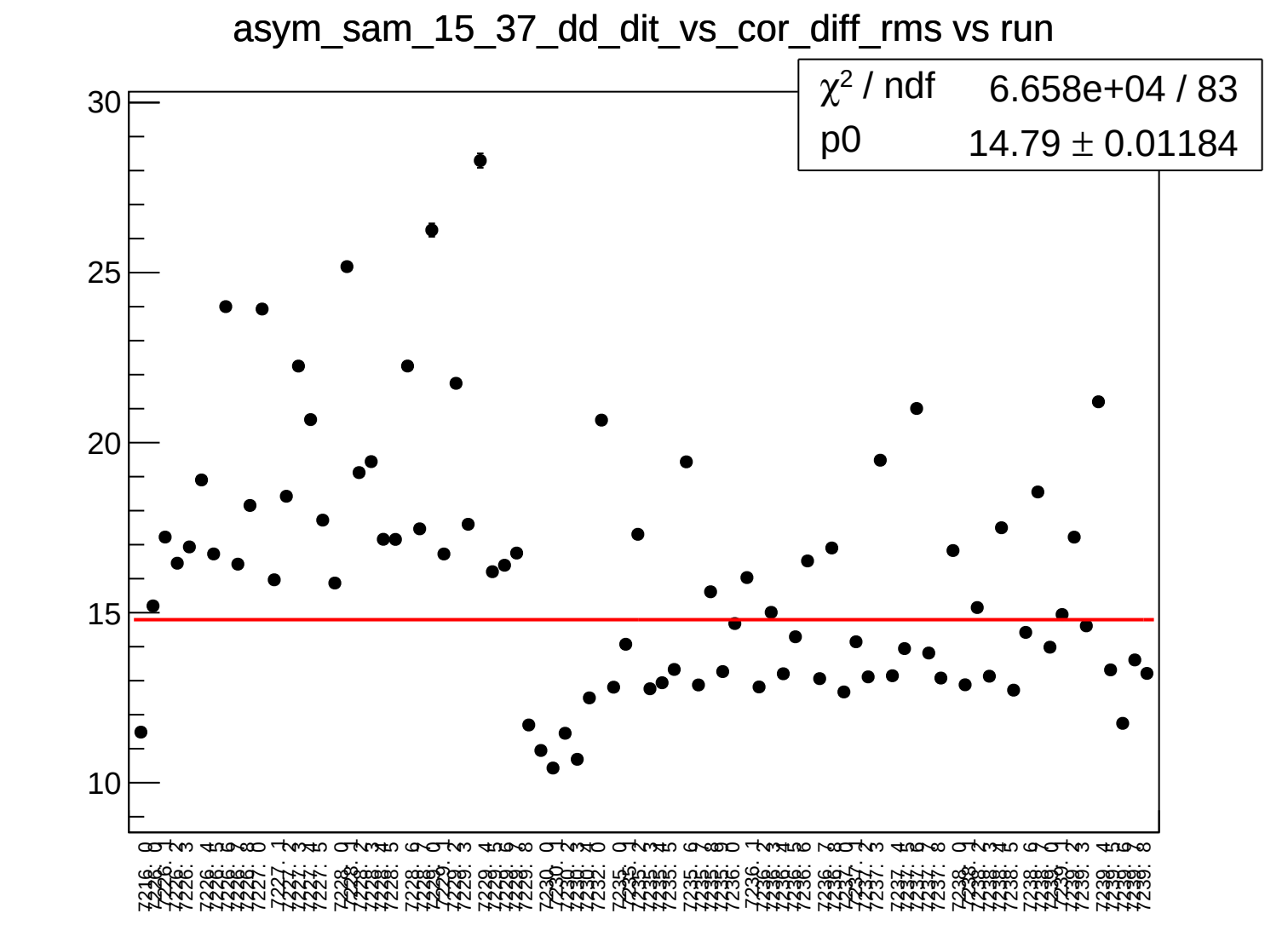

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 80.25 / 83
p0 6.142e−16 ± 1.261e−14
0.6
0.4
0.2
0
−0.2
pull
Entries 84
Mean 6.227
Std Dev 0
2
1
0
−1
−2

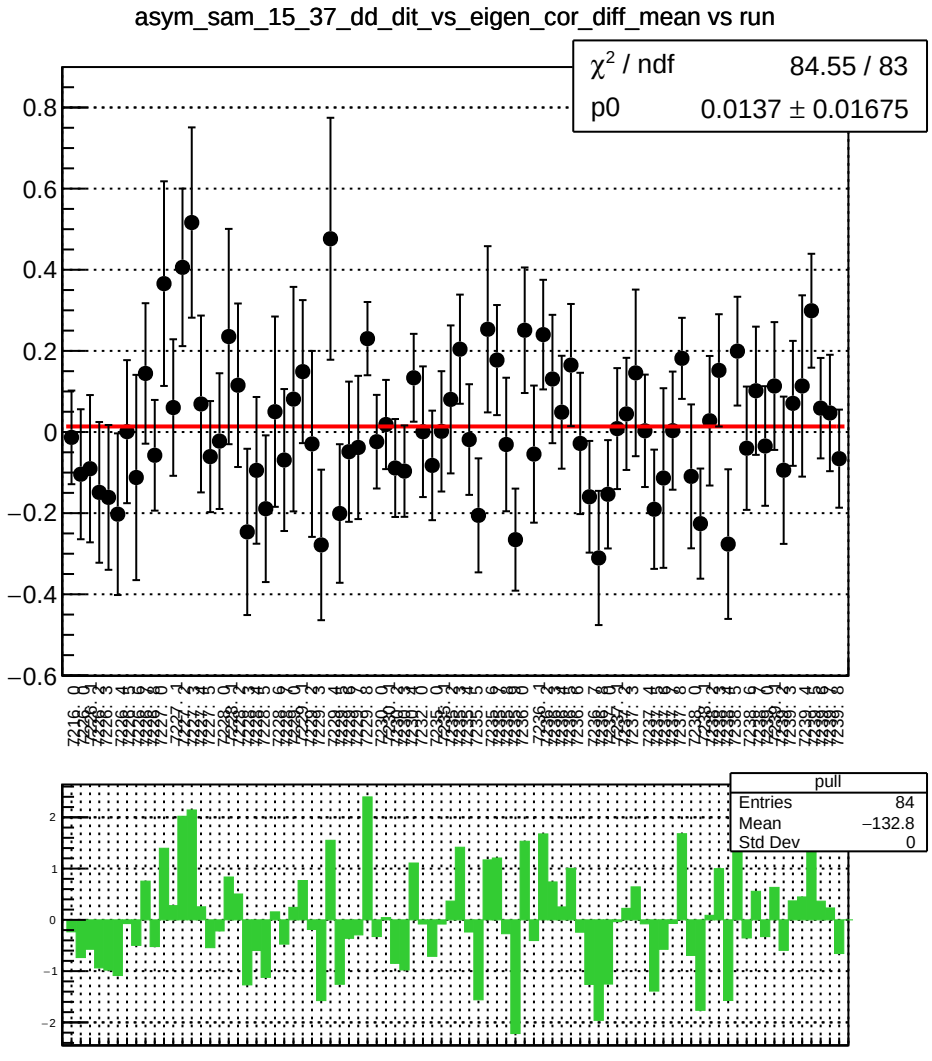

pull1D
Entries 84
Mean −0.04755
Std Dev 0.9762
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

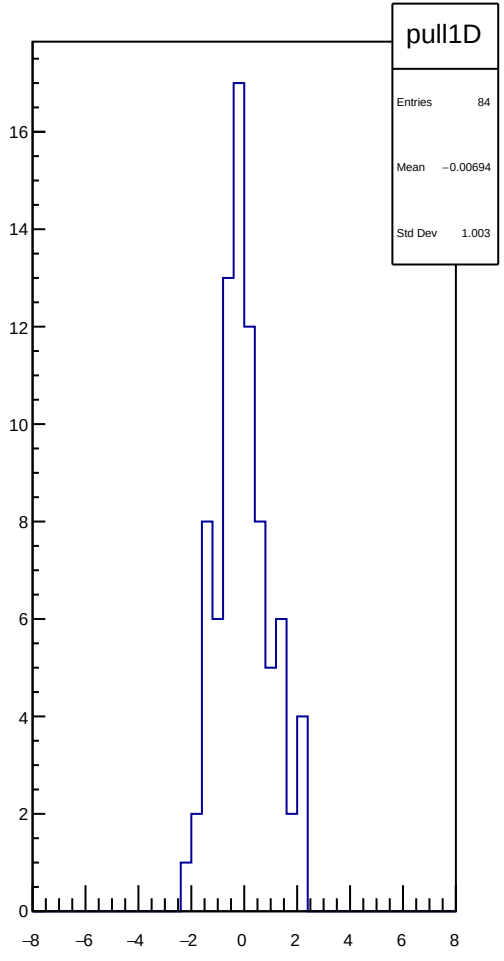

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.098e+06 / 83
p0 6.481e−12 ± 8.916e−15
0.025
0.02
0.015
0.01
0.005
0

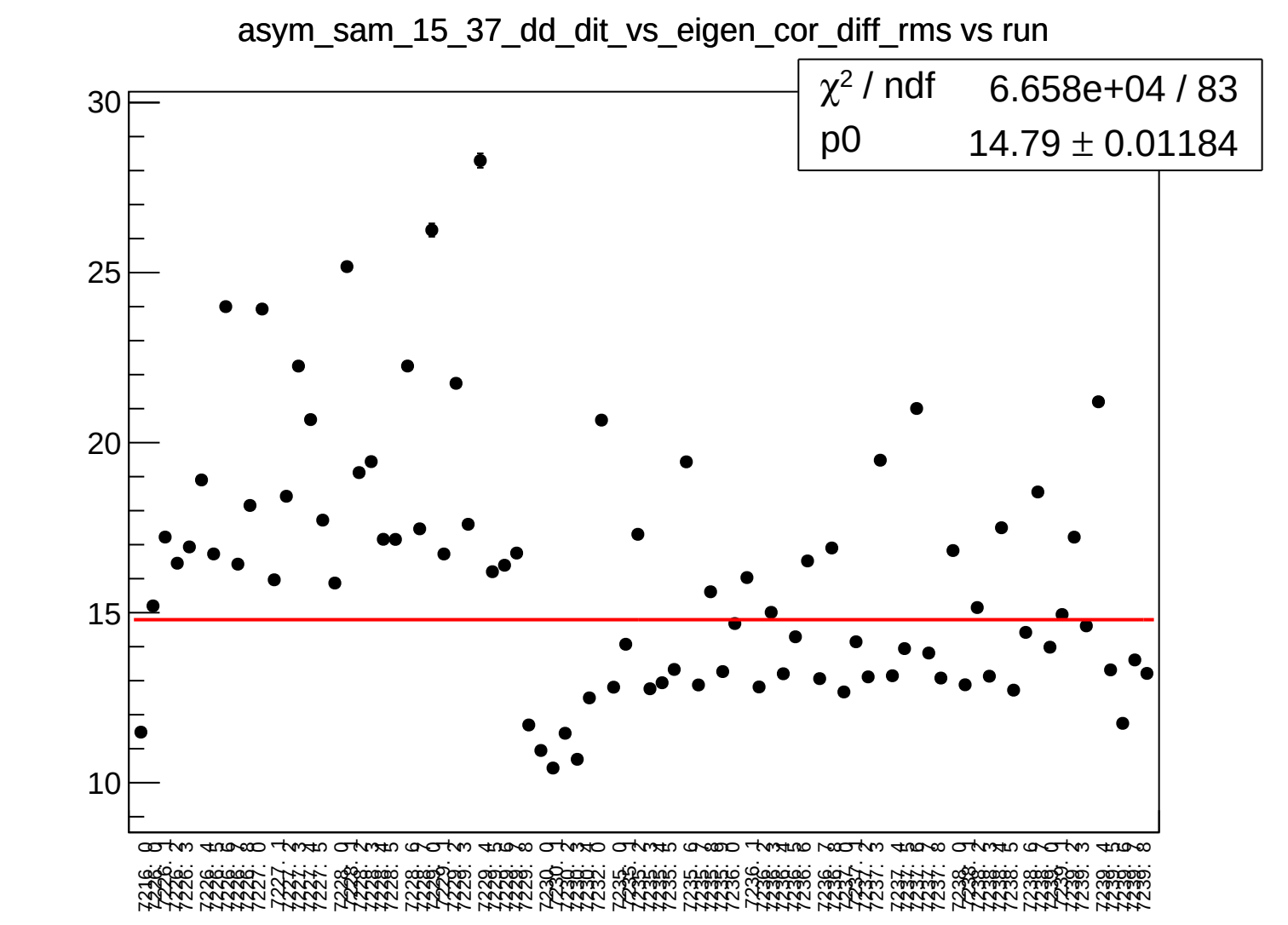

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 84.55 / 83
p0 0.0137 ± 0.01675
pull
Entries 84
Mean −132.8
Std Dev 0

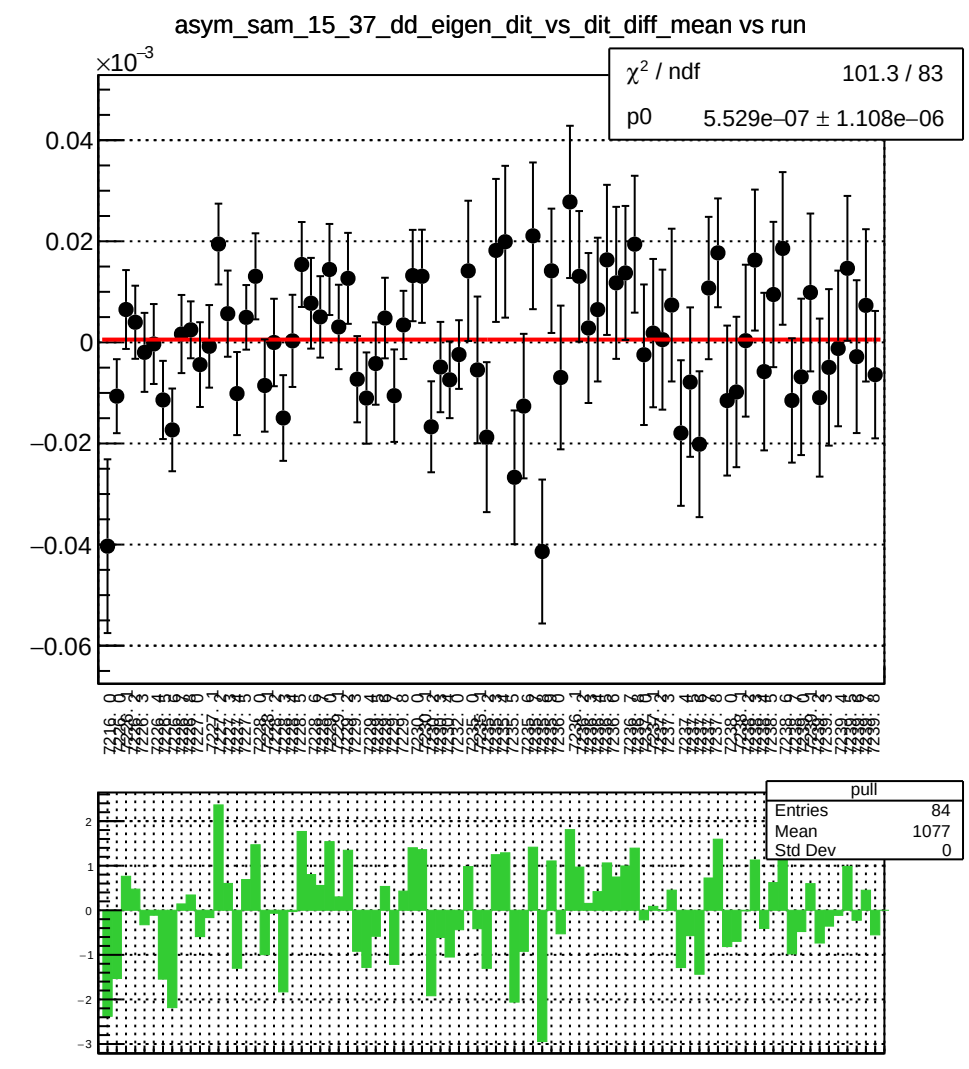

pull1D
Entries 84
Mean −0.00694
Std Dev 1.003

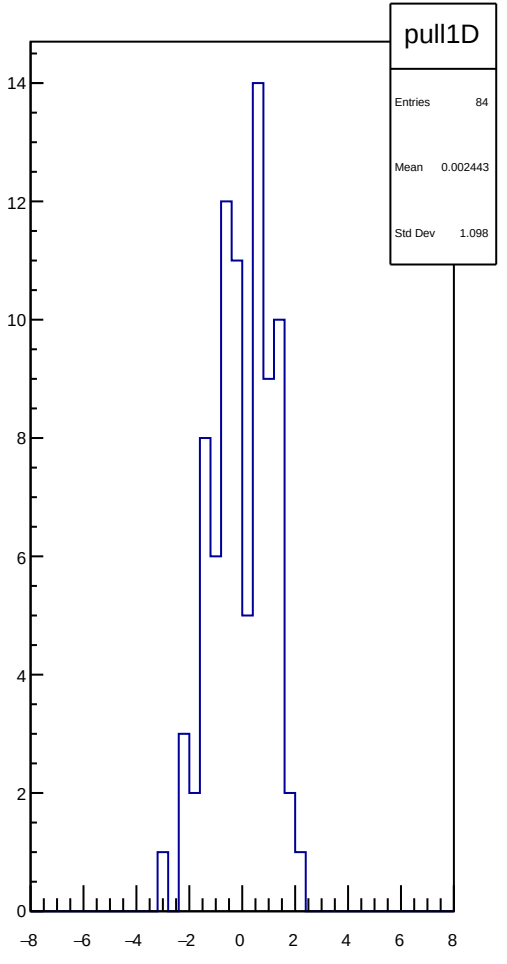

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.658e+04 / 83
p0 14.79 ± 0.01184
30
25
20
15
10

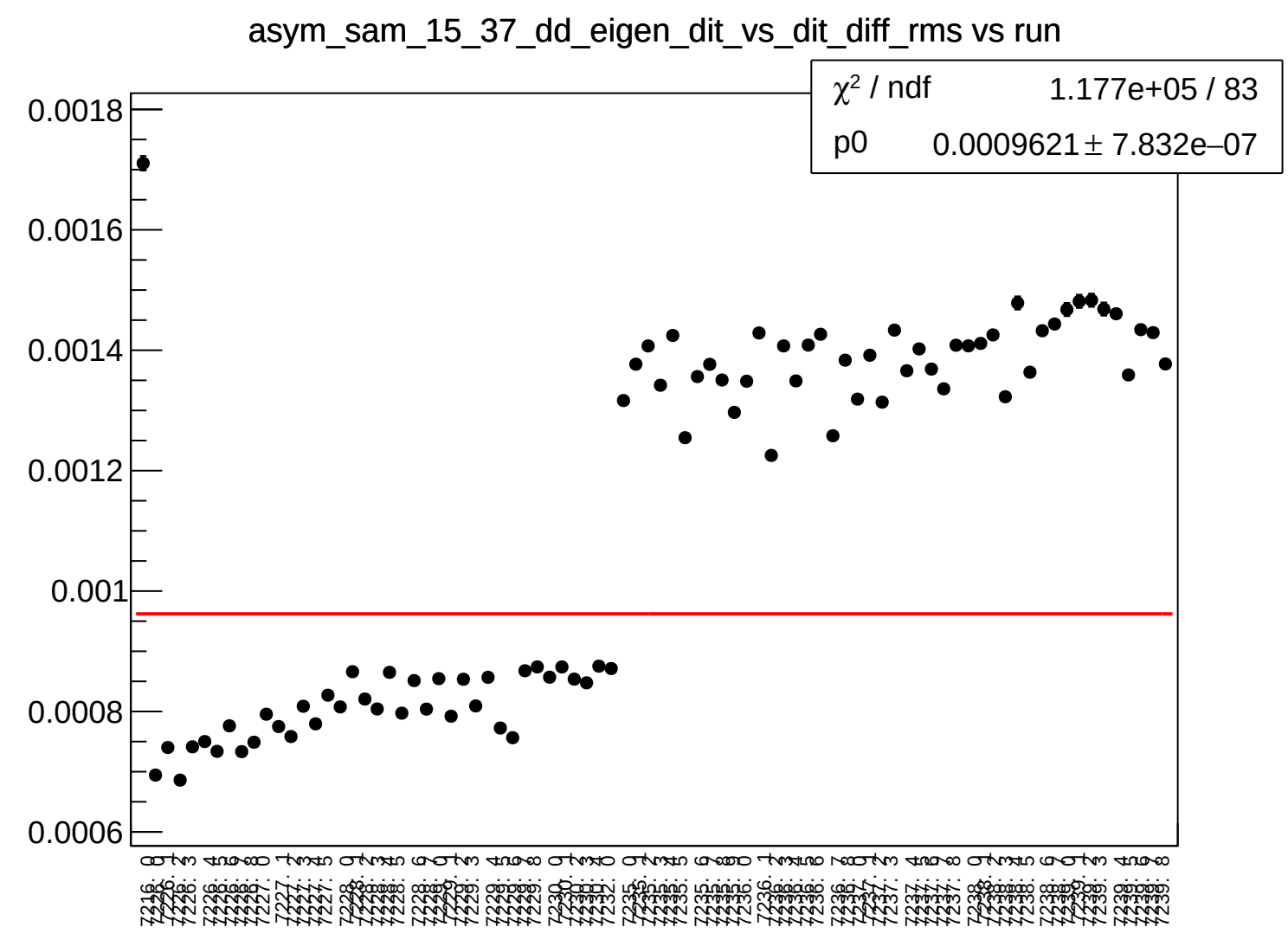

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.55 / 83
p0 0.0137 ± 0.01675
pull
Entries 84
Mean −132.8
Std Dev 0

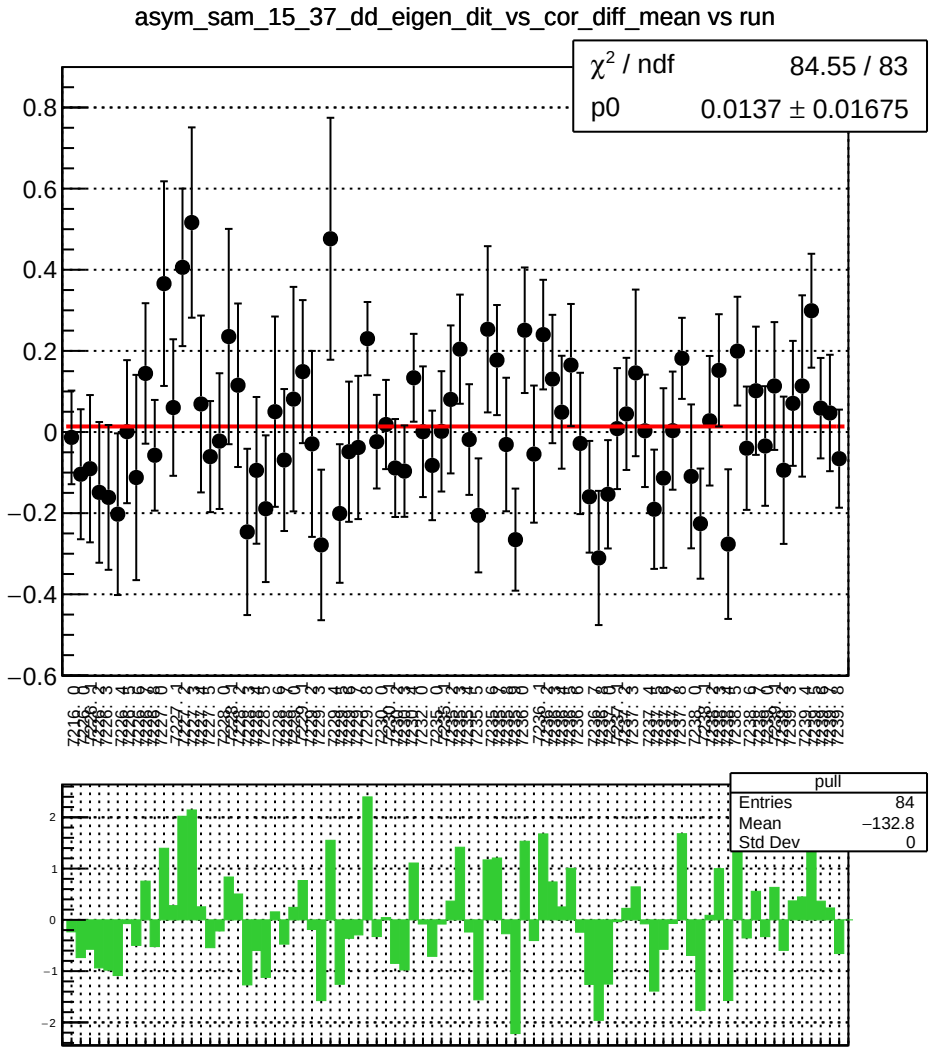

pull1D
Entries 84
Mean −0.00694
Std Dev 1.003

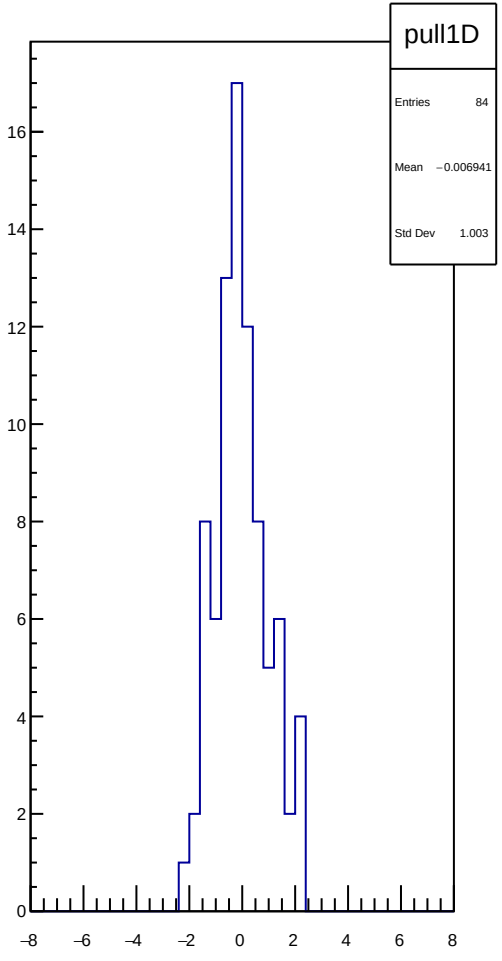

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.658e+04 / 83
p0 14.79 ± 0.01184
30
25
20
15
10

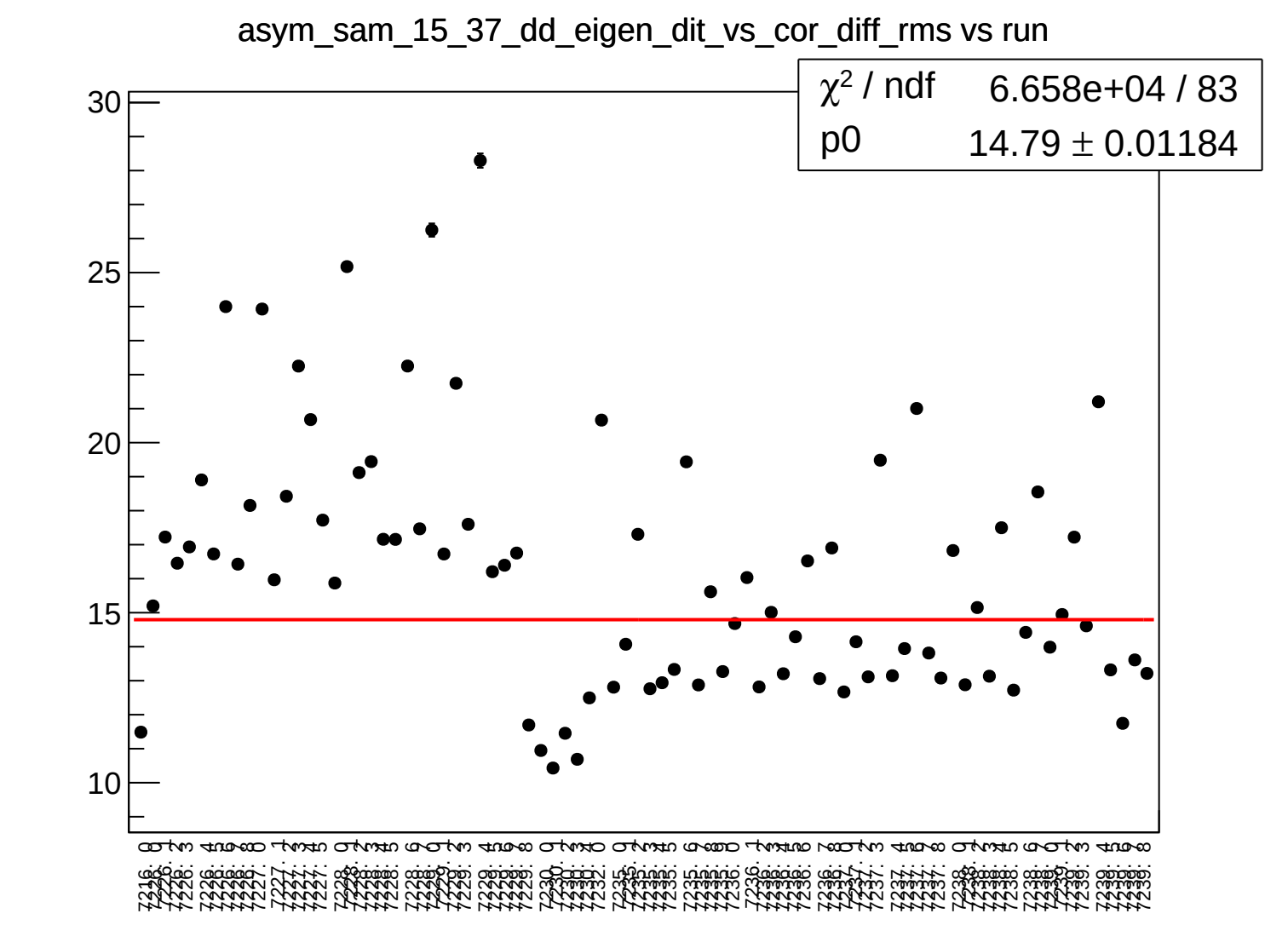

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.3 / 83
p0 5.529e−07 ± 1.108e−06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 84
Mean 1077
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 84
Mean 0.002443
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

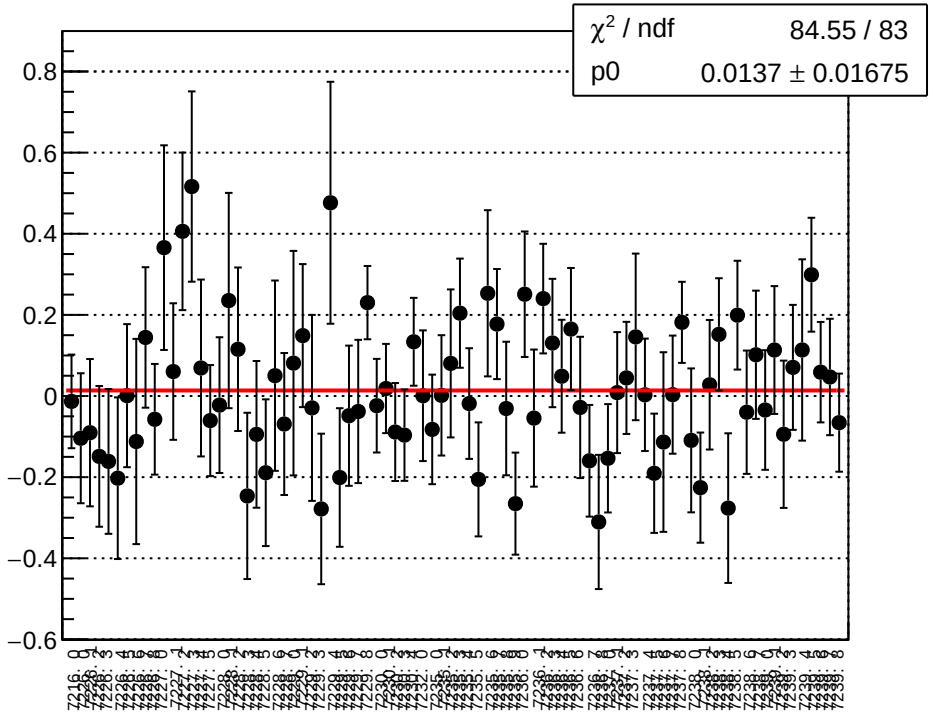

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.177e+05 / 83
p0 0.0009621 ± 7.832e–07
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006

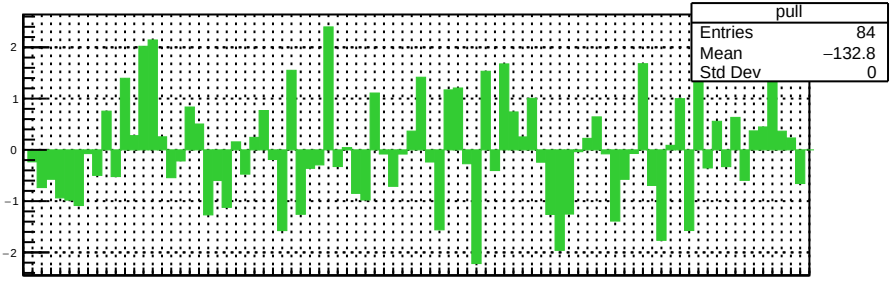

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.55 / 83
p0 0.0137 ± 0.01675
pull
Entries 84
Mean −132.8
Std Dev 0

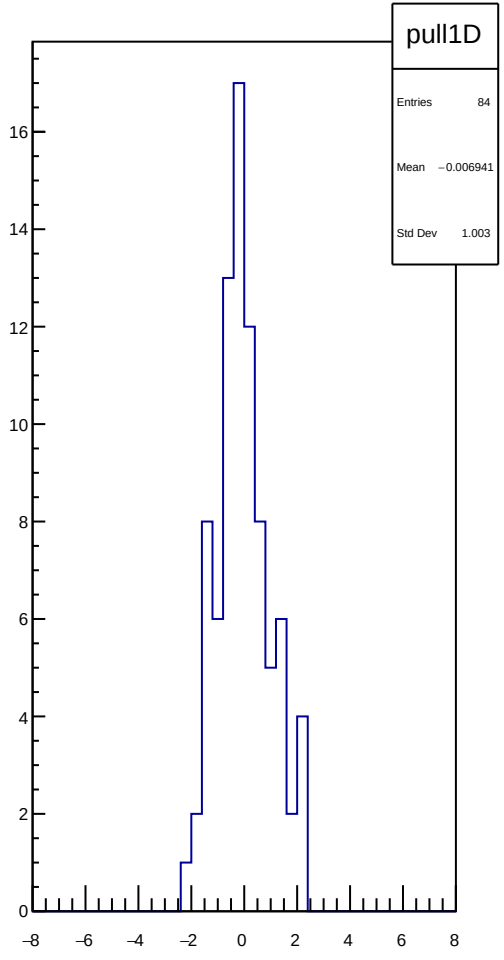

pull1D
Entries 84
Mean −0.006941
Std Dev 1.003

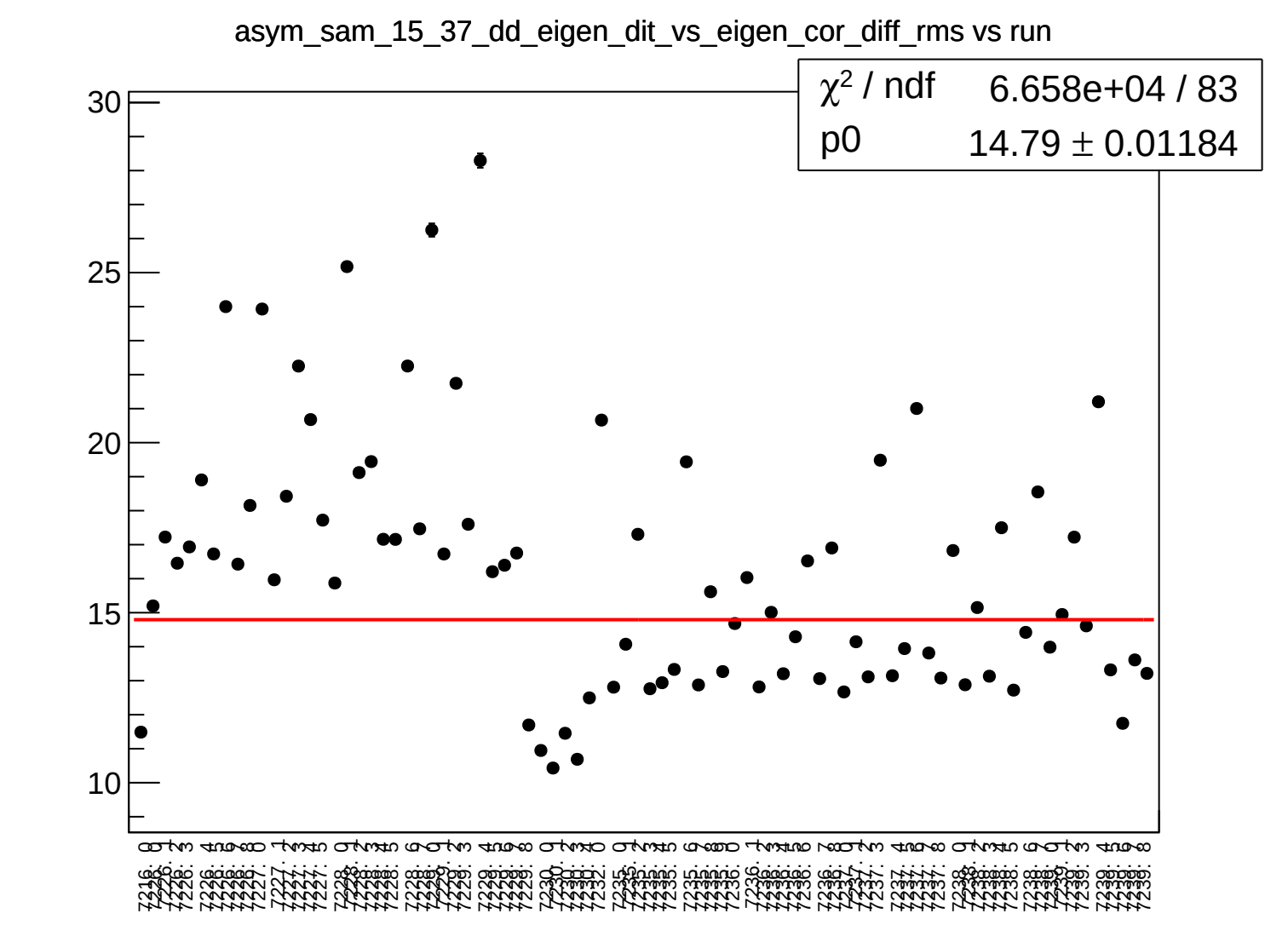

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.658e+04 / 83
p0 14.79 ± 0.01184
30
25
20
15
10

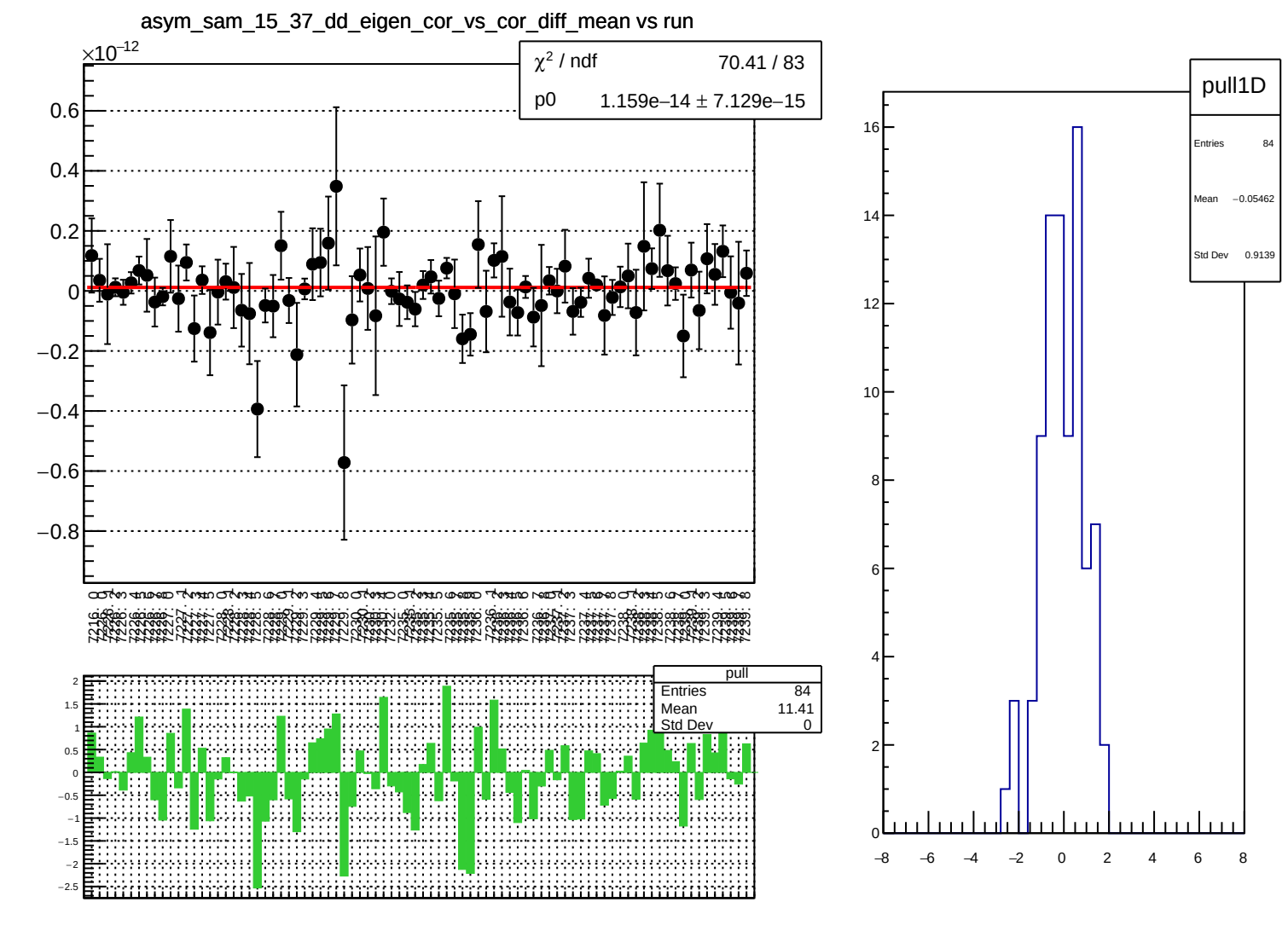
asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

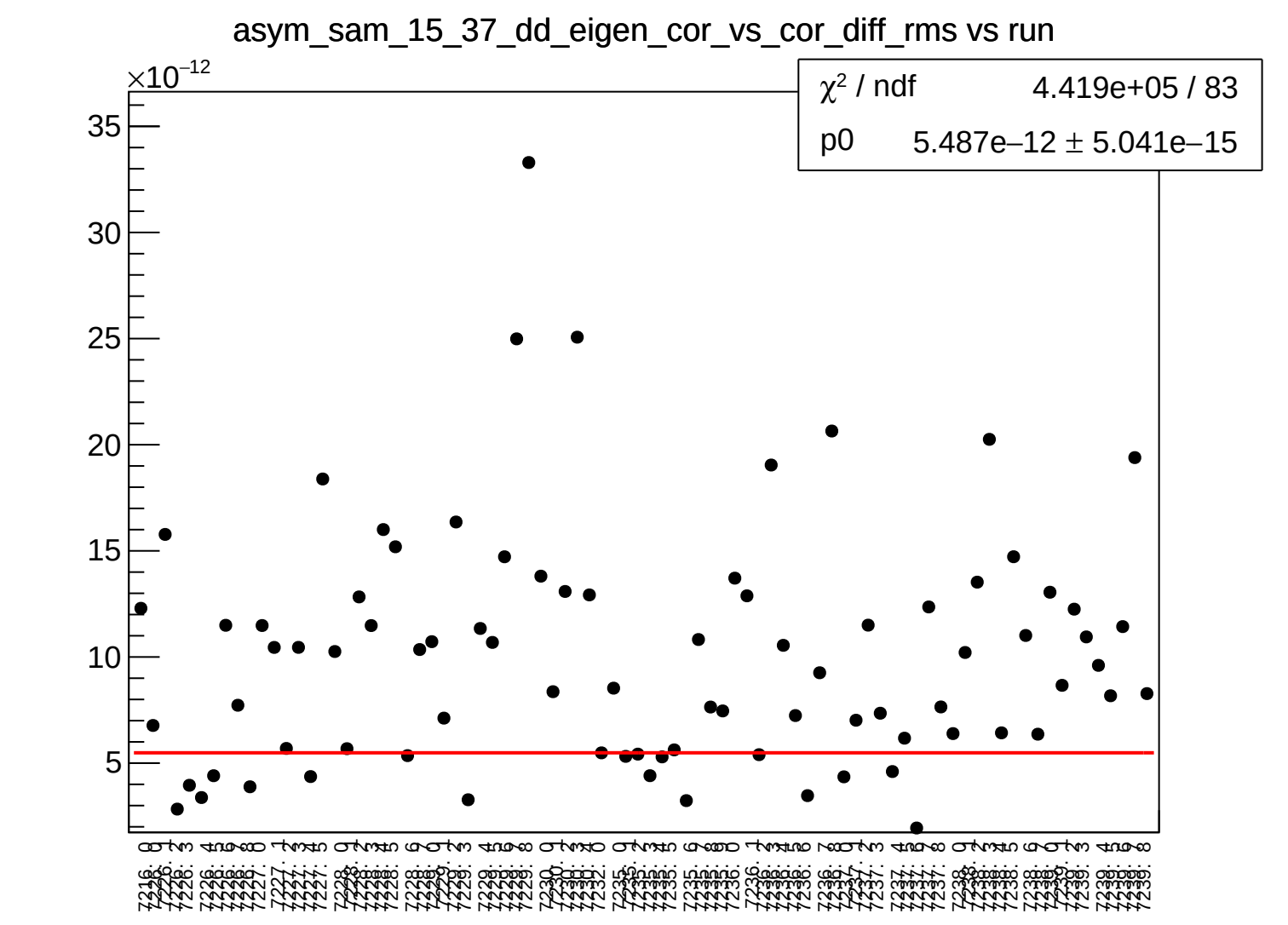


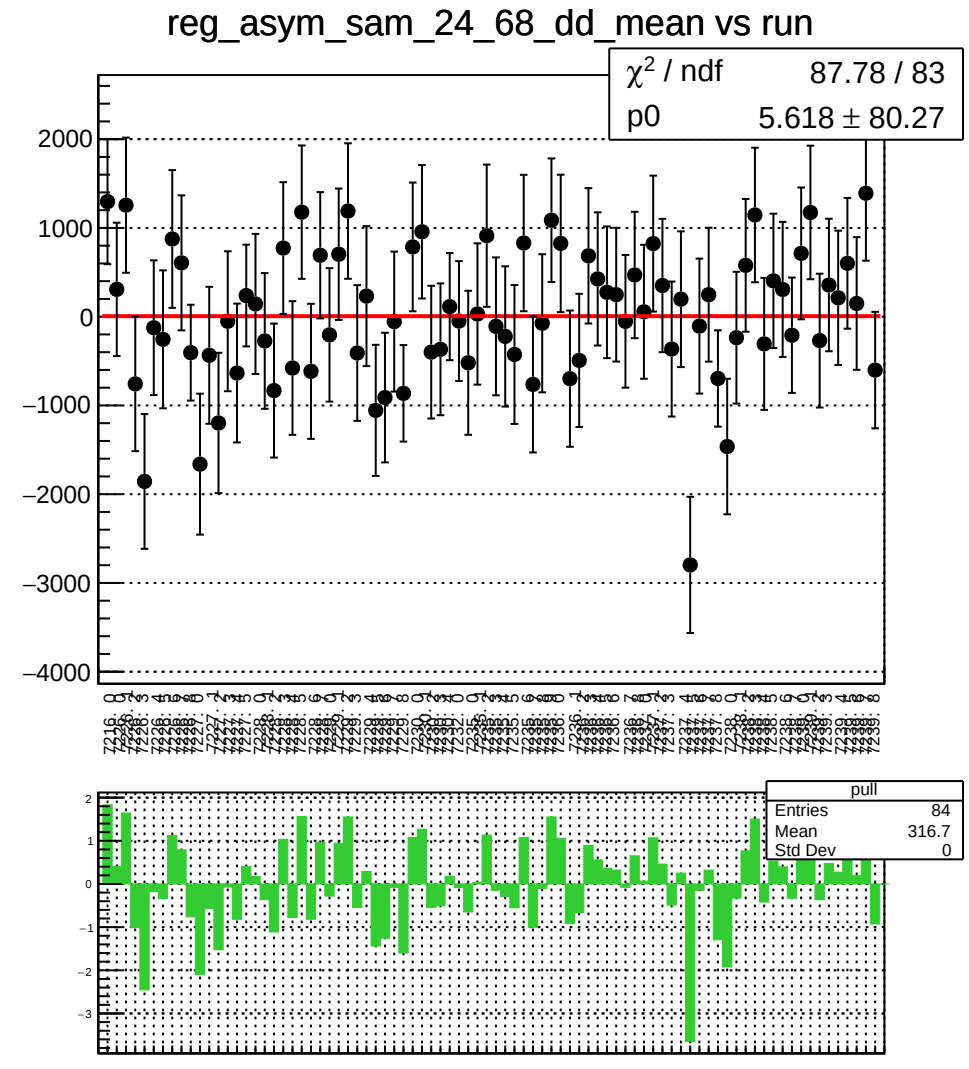


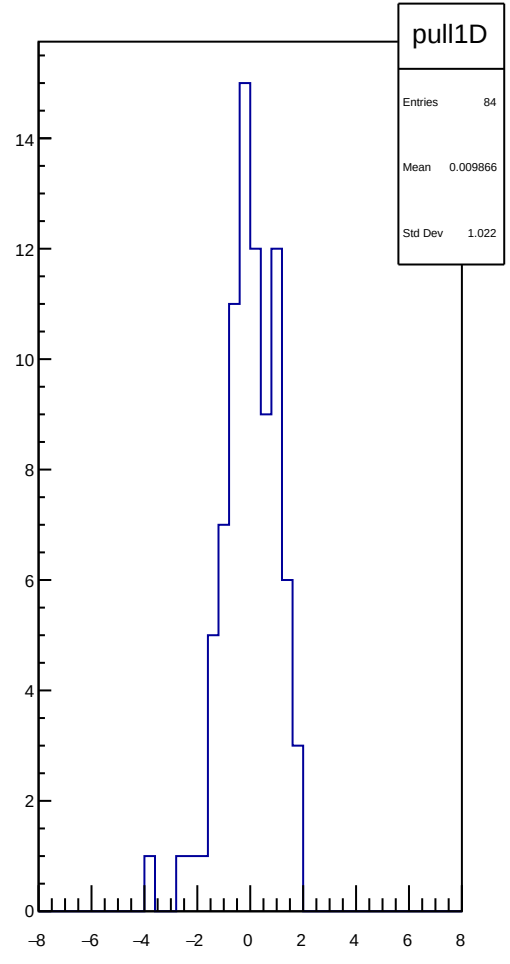


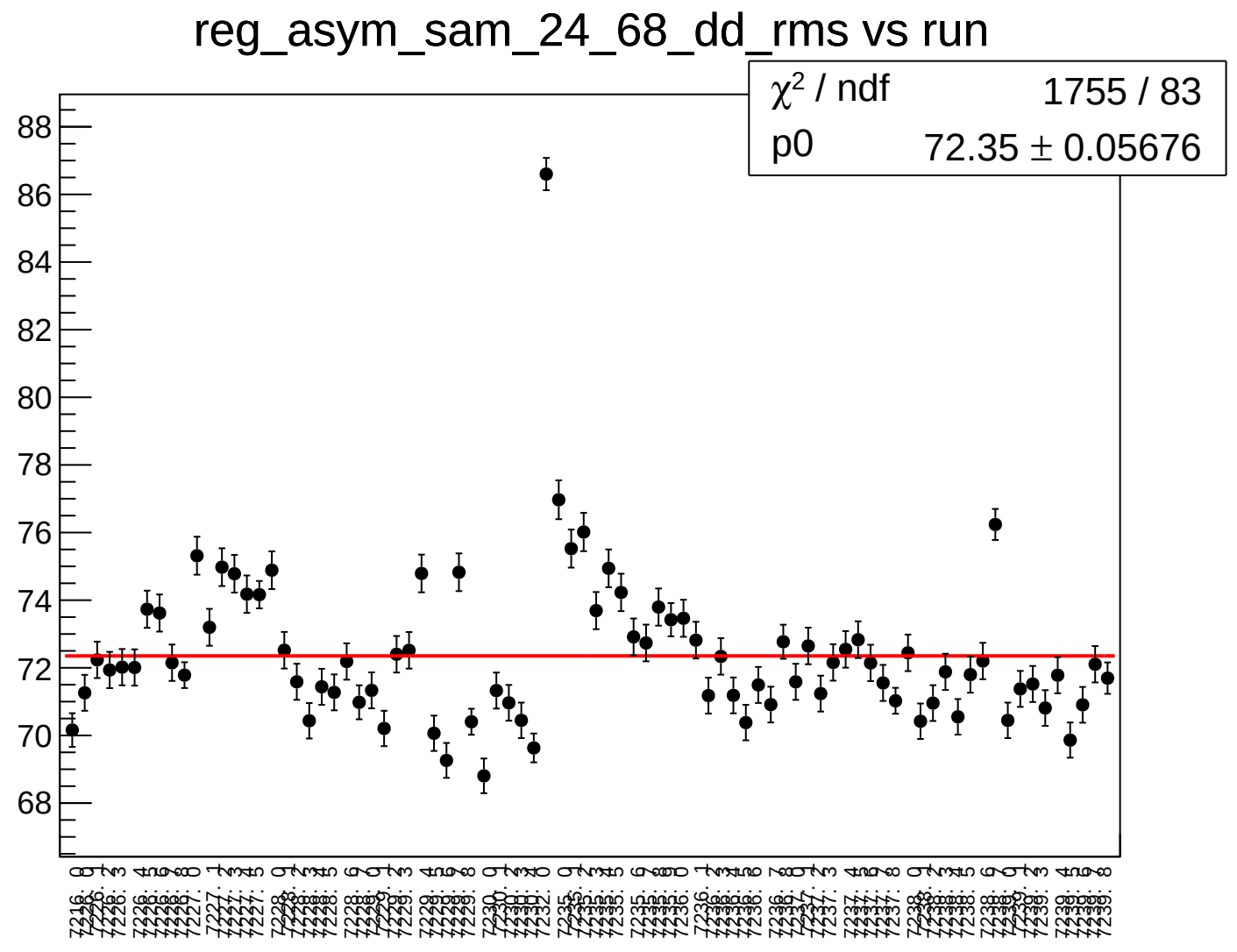

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.658e+04 / 83
p0 14.79 ± 0.01184
30
25
20
15
10

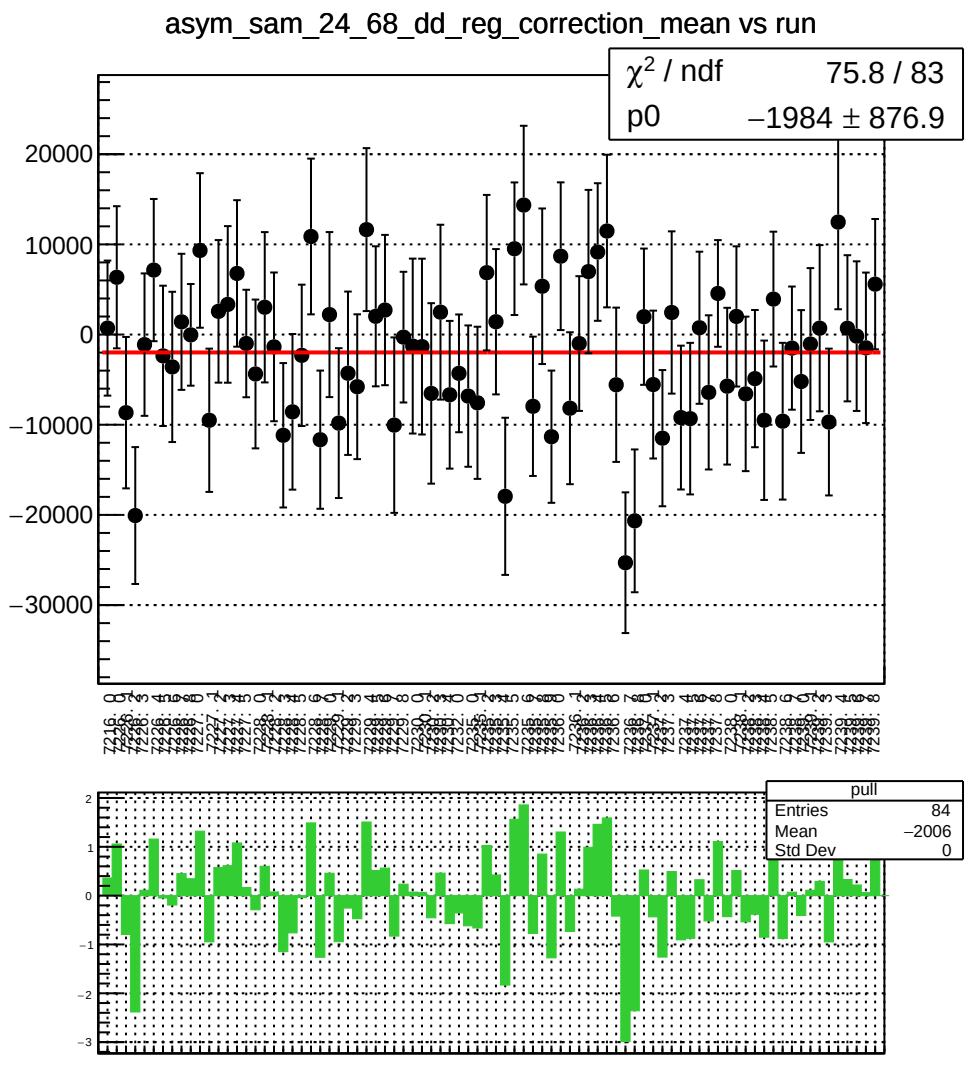

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.41 / 83
p0 1.159e−14 ± 7.129e−15
pull
Entries 84
Mean 11.41
Std Dev 0
pull1D
Entries 84
Mean −0.05462
Std Dev 0.9139

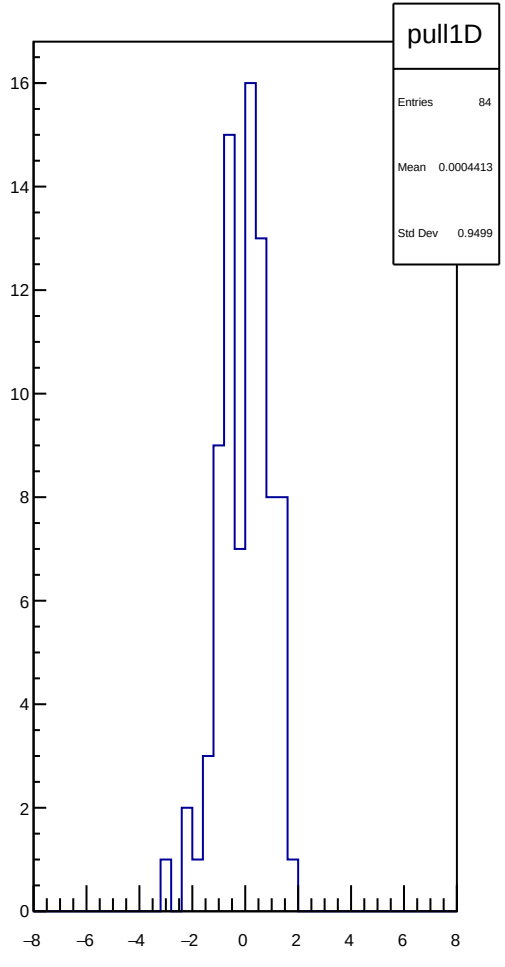

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.419e+05 / 83
p0 5.487e−12 ± 5.041e−15
35
30
25
20
15
10
5

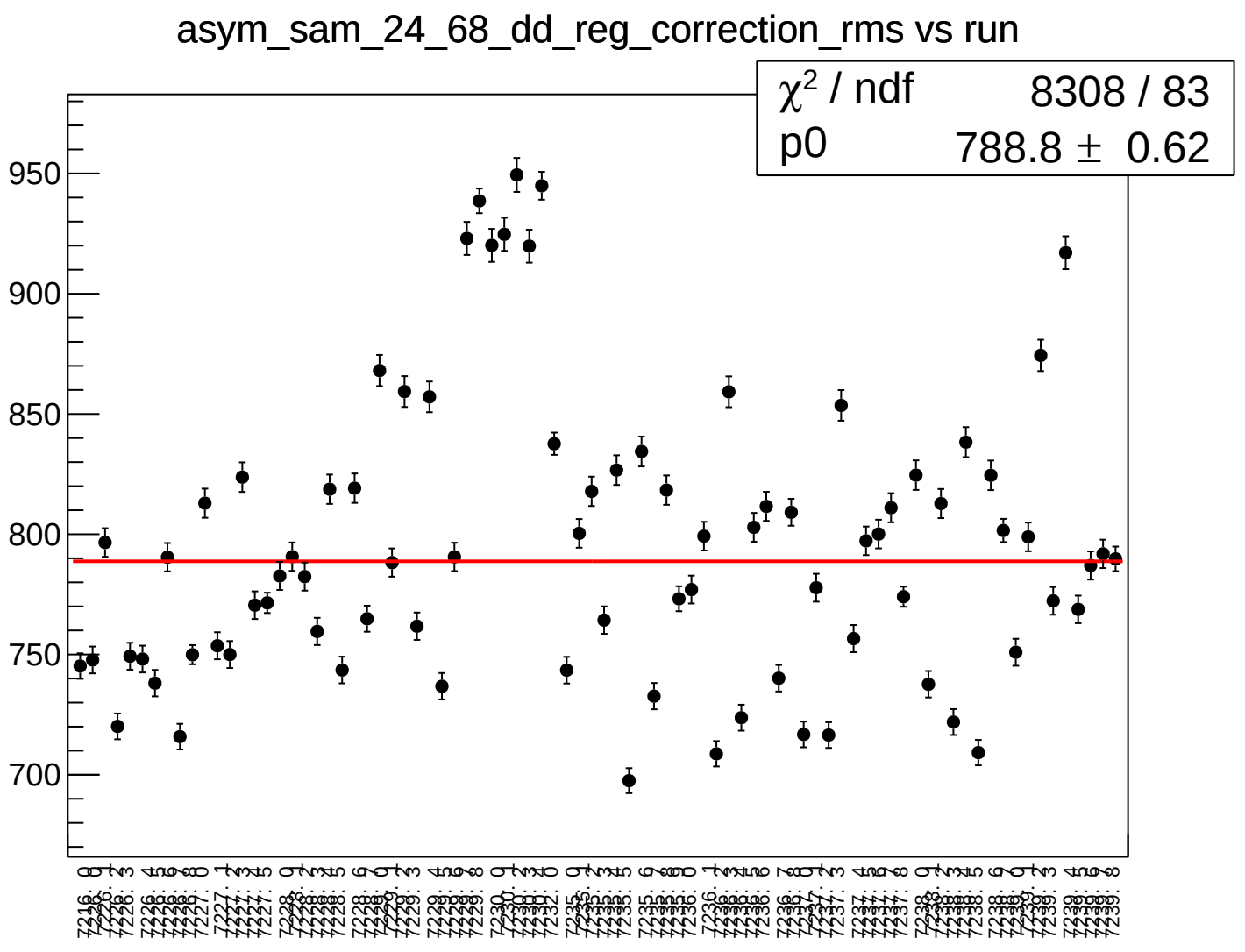

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 87.78 / 83
p0 5.618 ± 80.27
pull
Entries 84
Mean 316.7
Std Dev 0

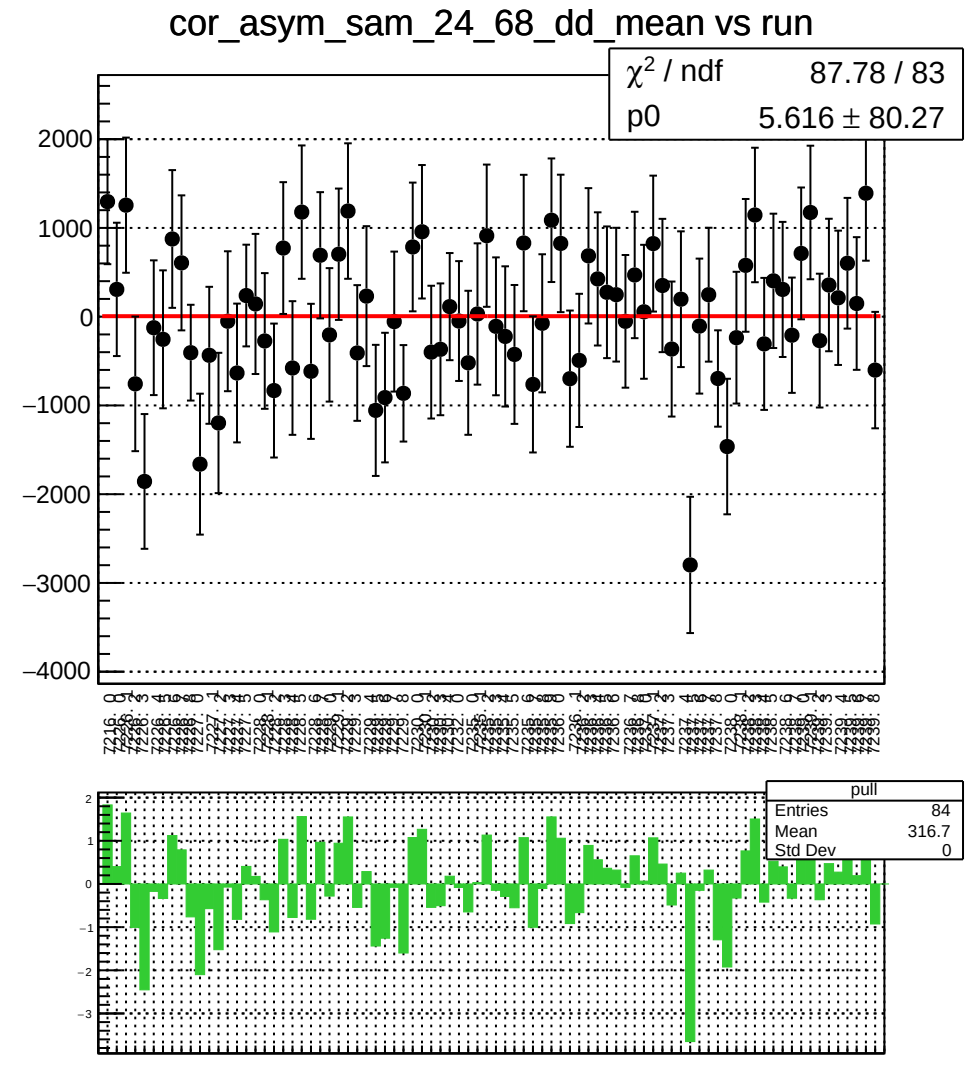

pull1D
Entries 84
Mean 0.009866
Std Dev 1.022

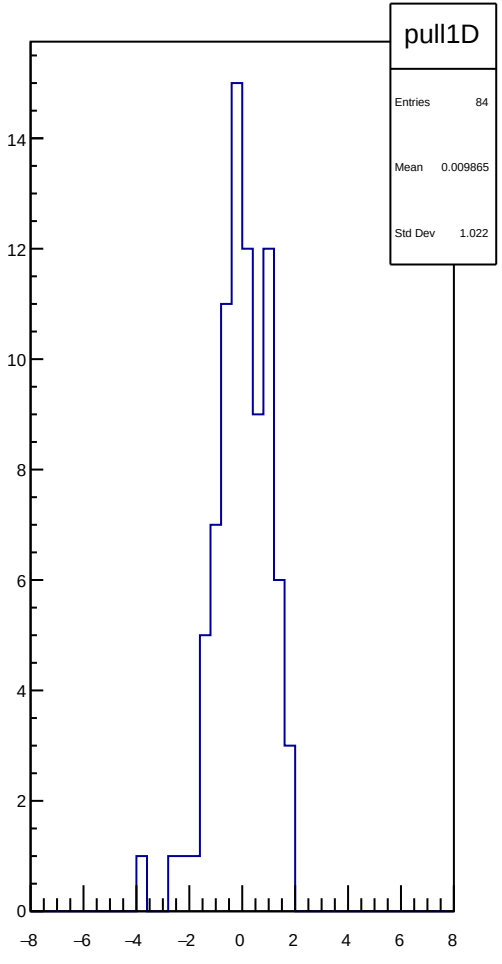

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 1755 / 83
p0 72.35 ± 0.05676
88
86
84
82
80
78
76
74
72
70
68

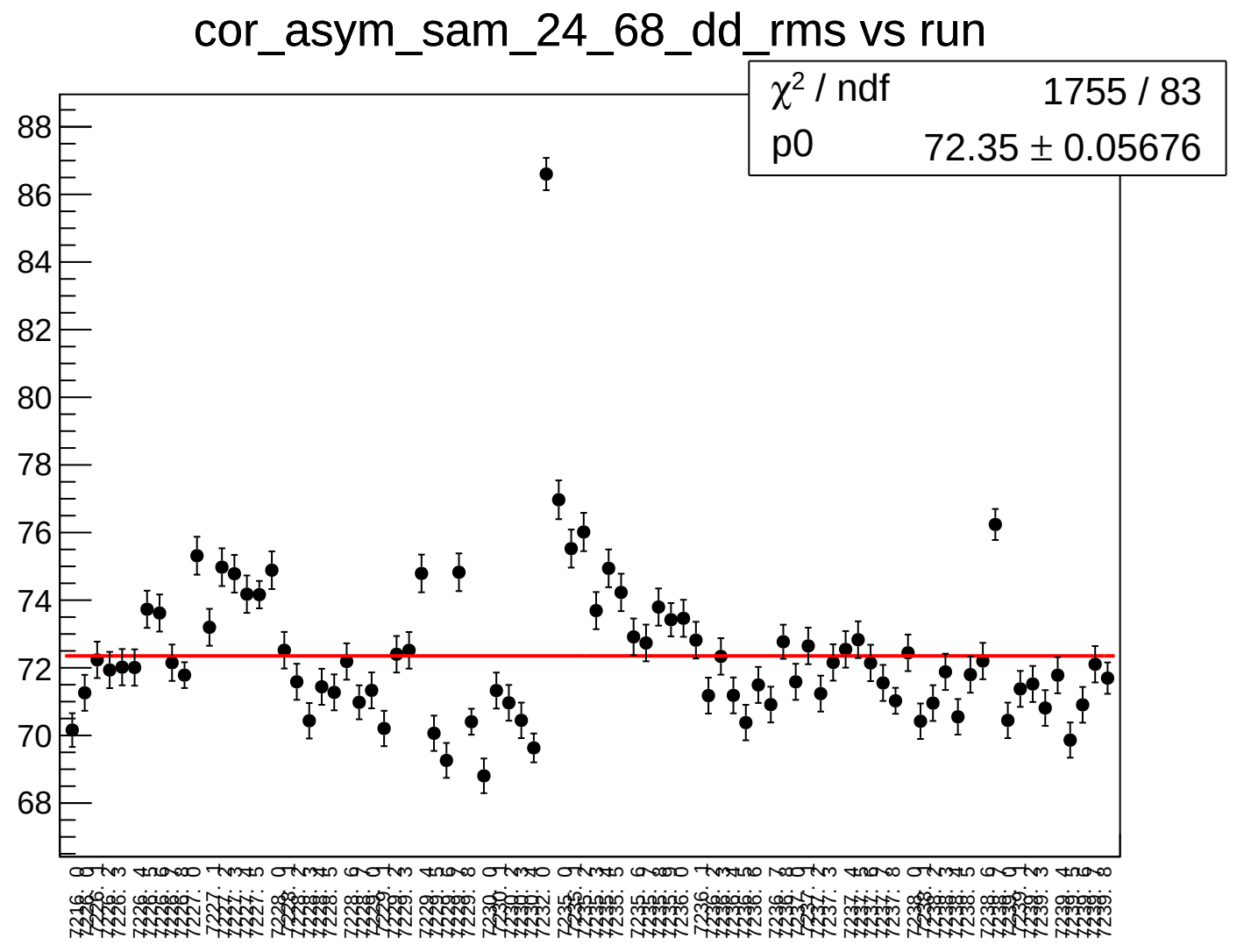

asym_sam_24_68_dd_reg_correction_mean vs run
χ² / ndf 75.8 / 83
p0 −1984 ± 876.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −2006
Std Dev 0
2
1
0
−1
−2
−3

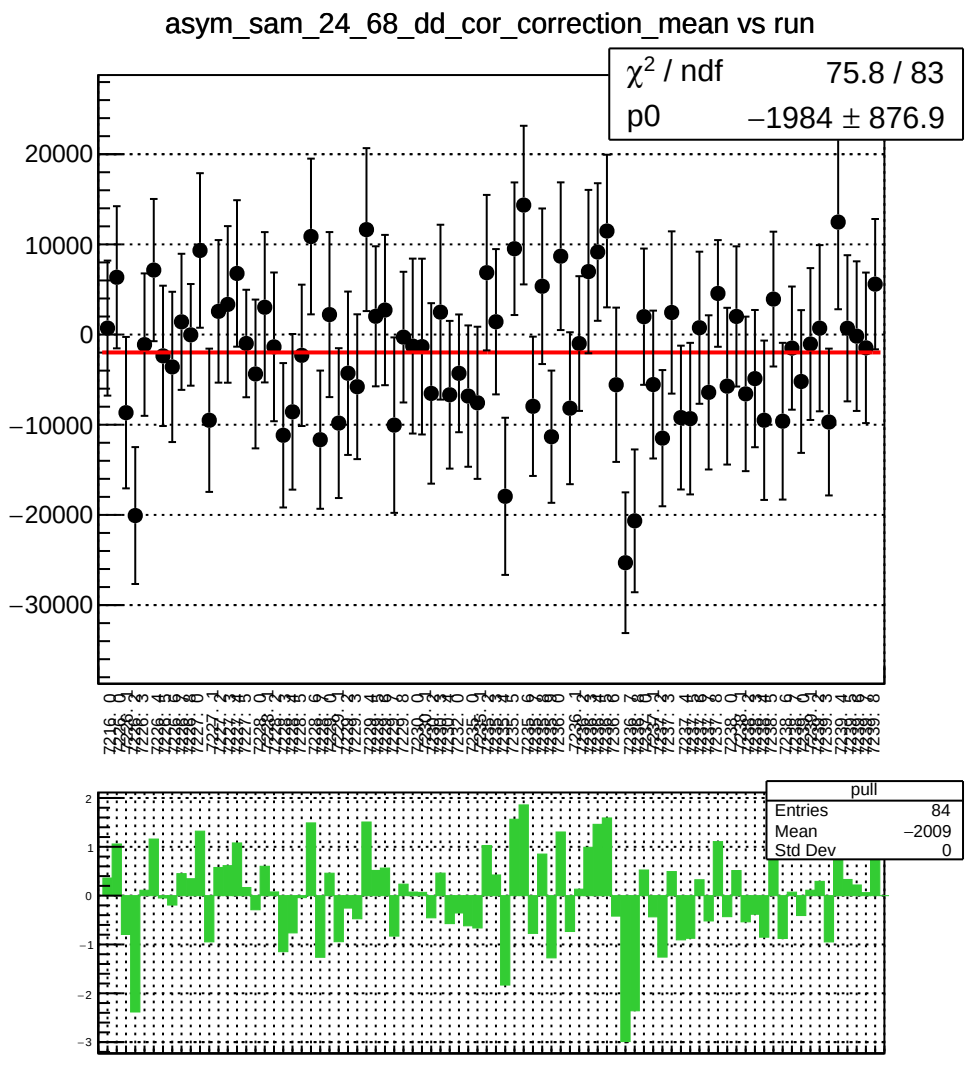

pull1D
Entries 84
Mean 0.0004413
Std Dev 0.9499
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

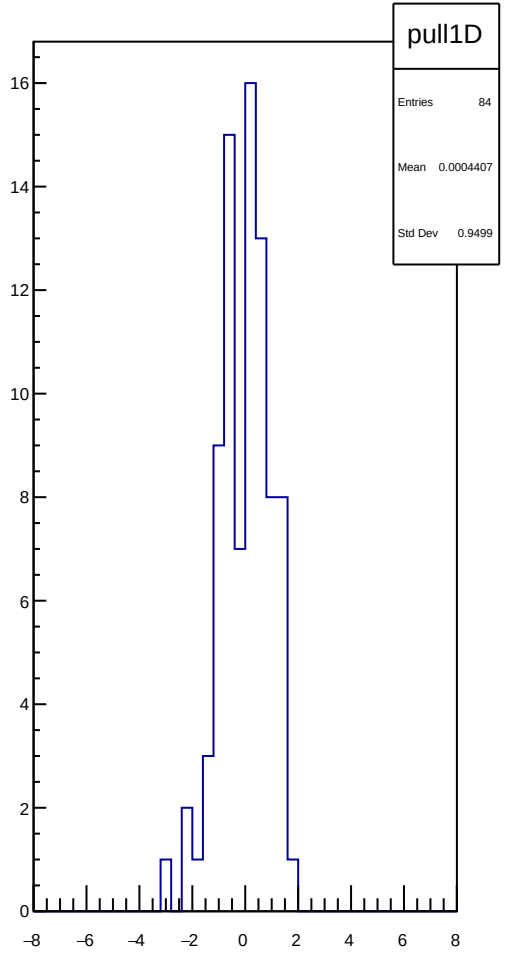

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 8308 / 83
p0 788.8 ± 0.62
950
900
850
800
750
700

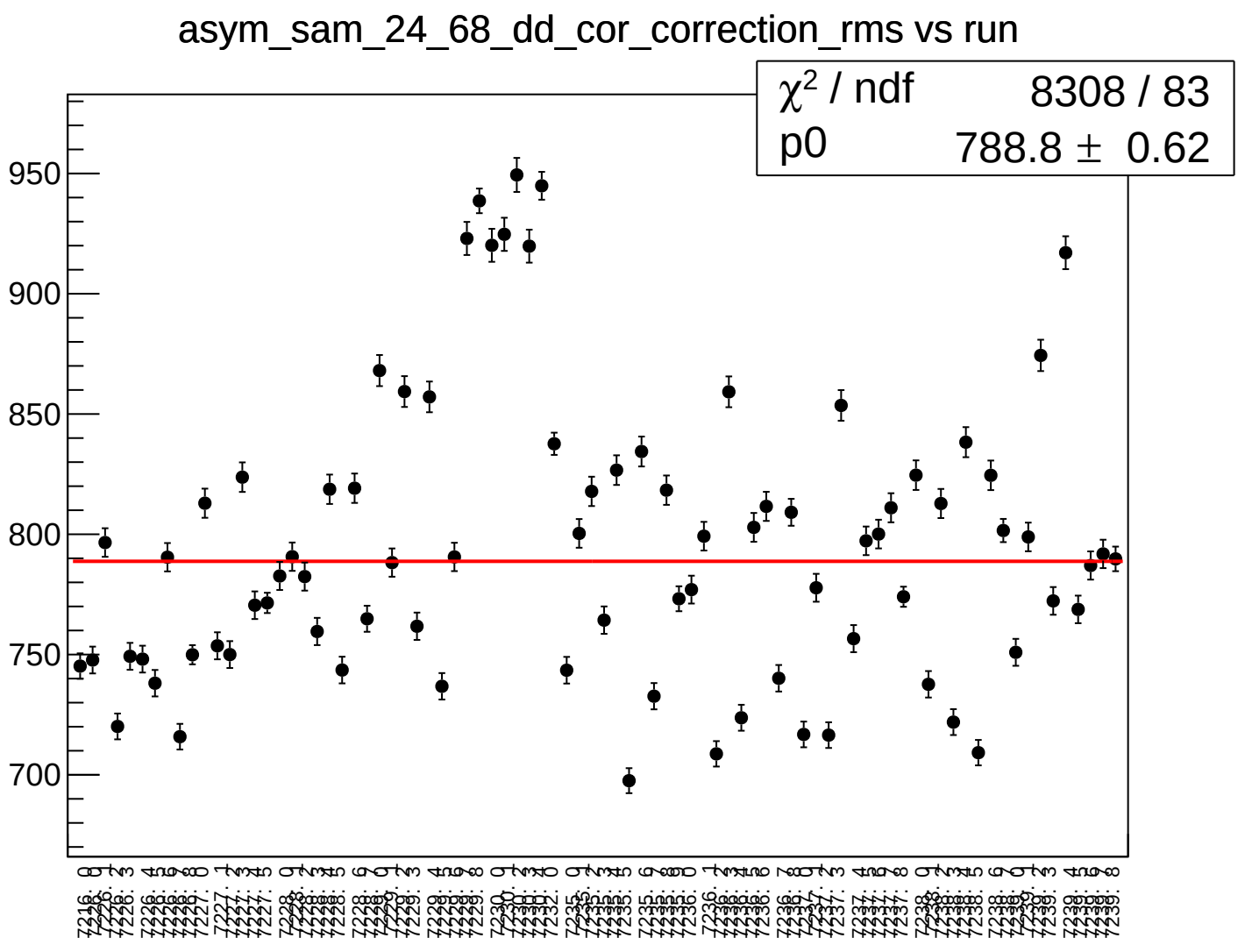

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 87.78 / 83
p0 5.616 ± 80.27
pull
Entries 84
Mean 316.7
Std Dev 0

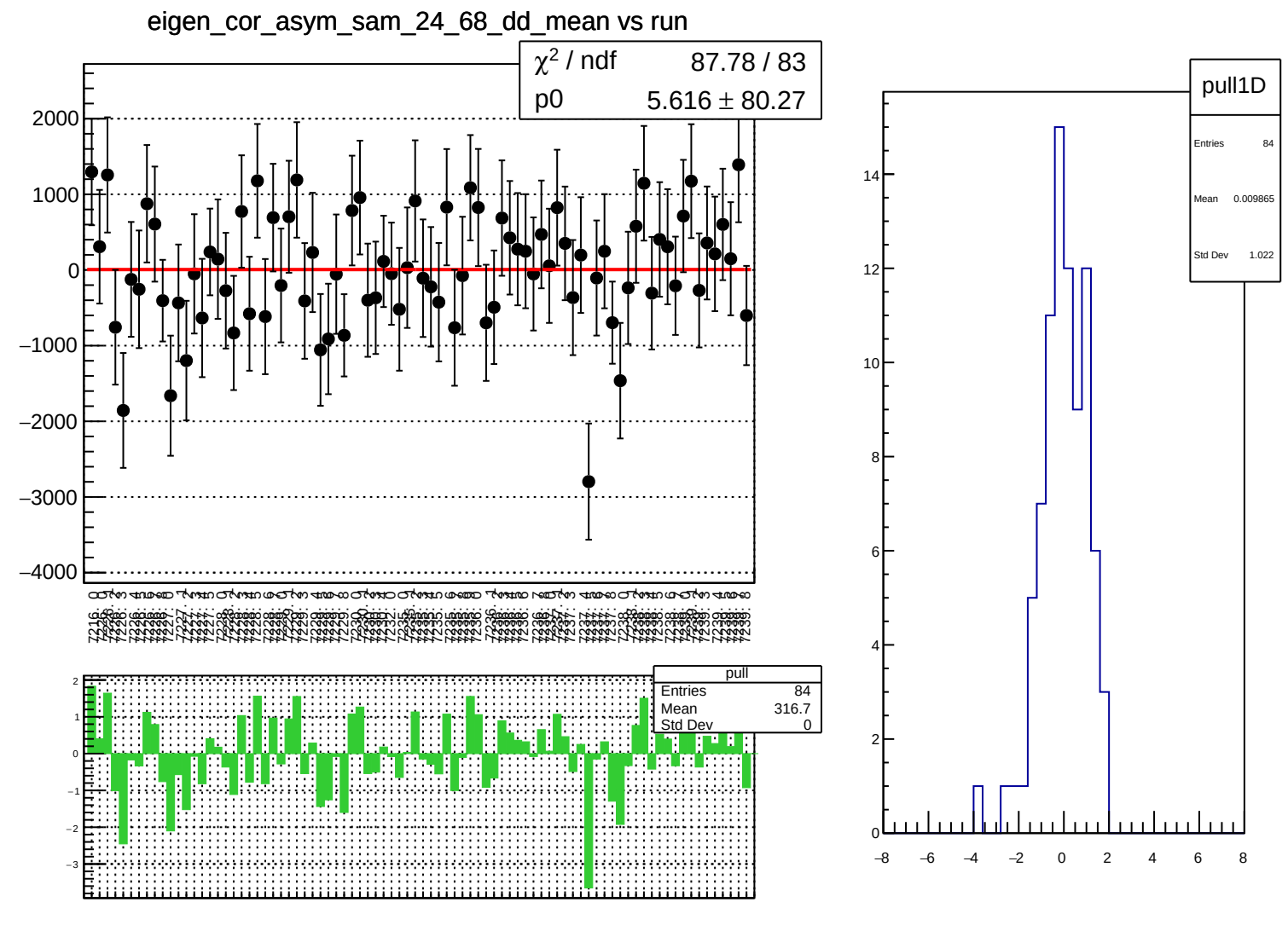

pull1D
Entries 84
Mean 0.009865
Std Dev 1.022

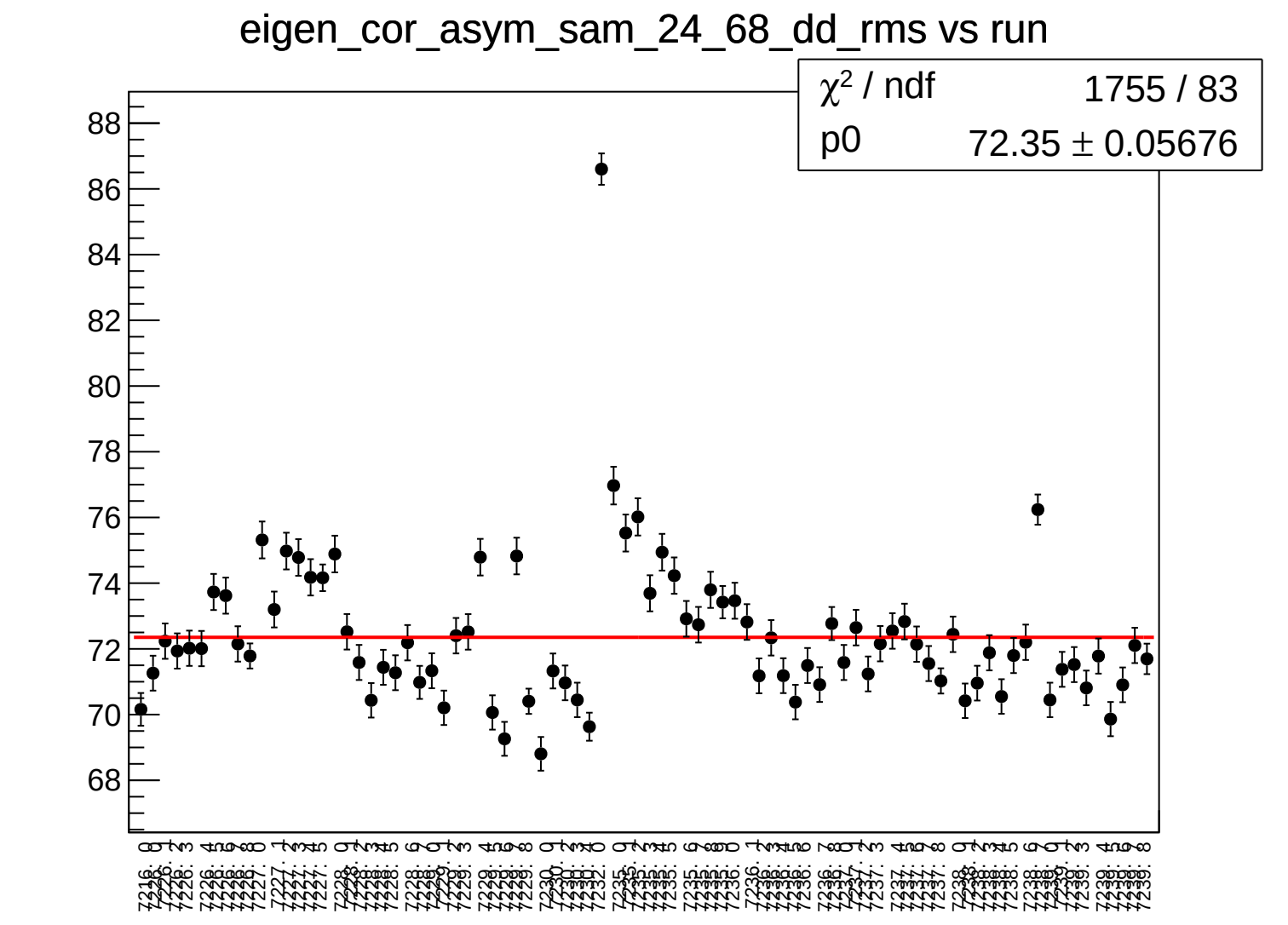

cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 1755 / 83
p0 72.35 ± 0.05676
88
86
84
82
80
78
76
74
72
70
68

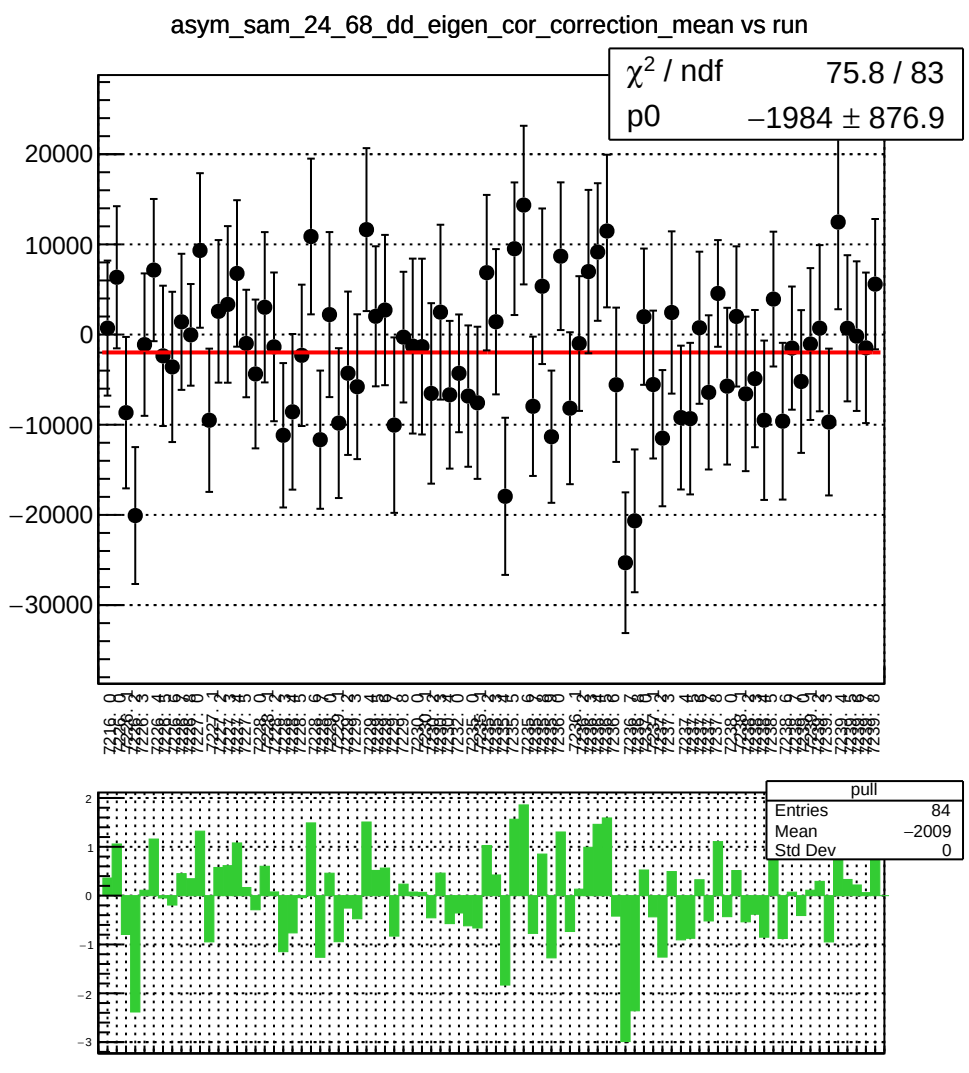

asym_sam_24_68_dd_cor_correction_mean vs run
χ² / ndf 75.8 / 83
p0 −1984 ± 876.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −2009
Std Dev 0
2
1
0
−1
−2
−3

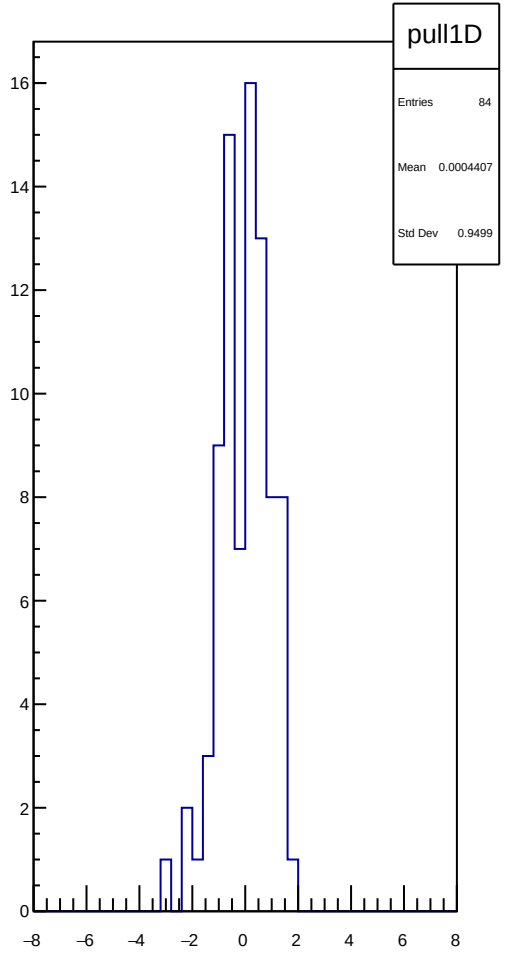

pull1D
Entries 84
Mean 0.0004407
Std Dev 0.9499
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

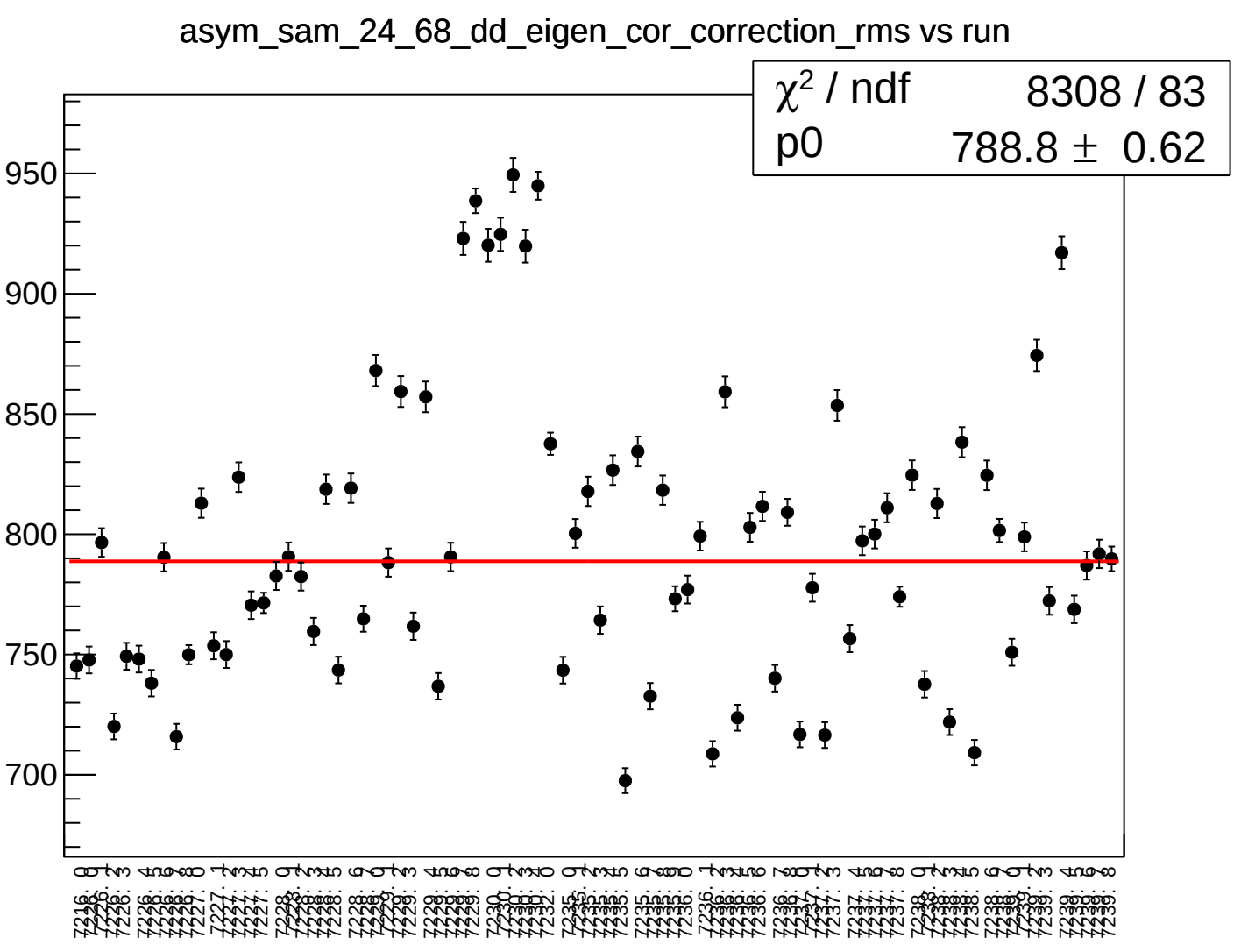

asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 8308 / 83
p0 788.8 ± 0.62
950
900
850
800
750
700

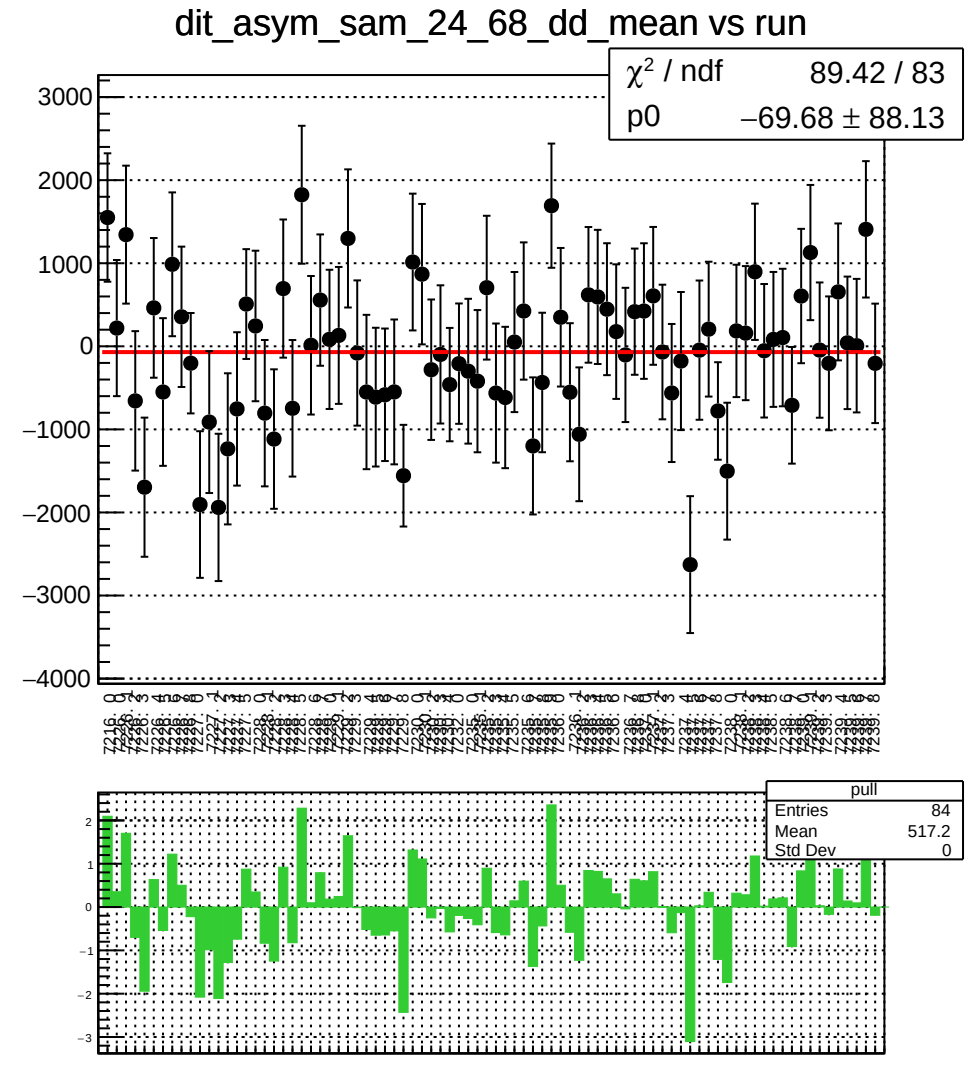

eigen_cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 87.78 / 83
p0 5.616 ± 80.27
pull
Entries 84
Mean 316.7
Std Dev 0
pull1D
Entries 84
Mean 0.009865
Std Dev 1.022

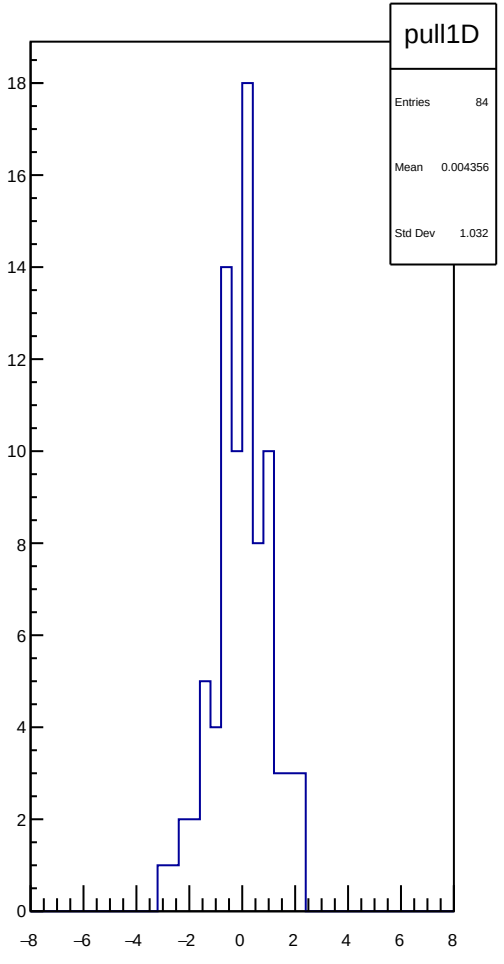

eigen_cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 1755 / 83
p0 72.35 ± 0.05676
88
86
84
82
80
78
76
74
72
70
68

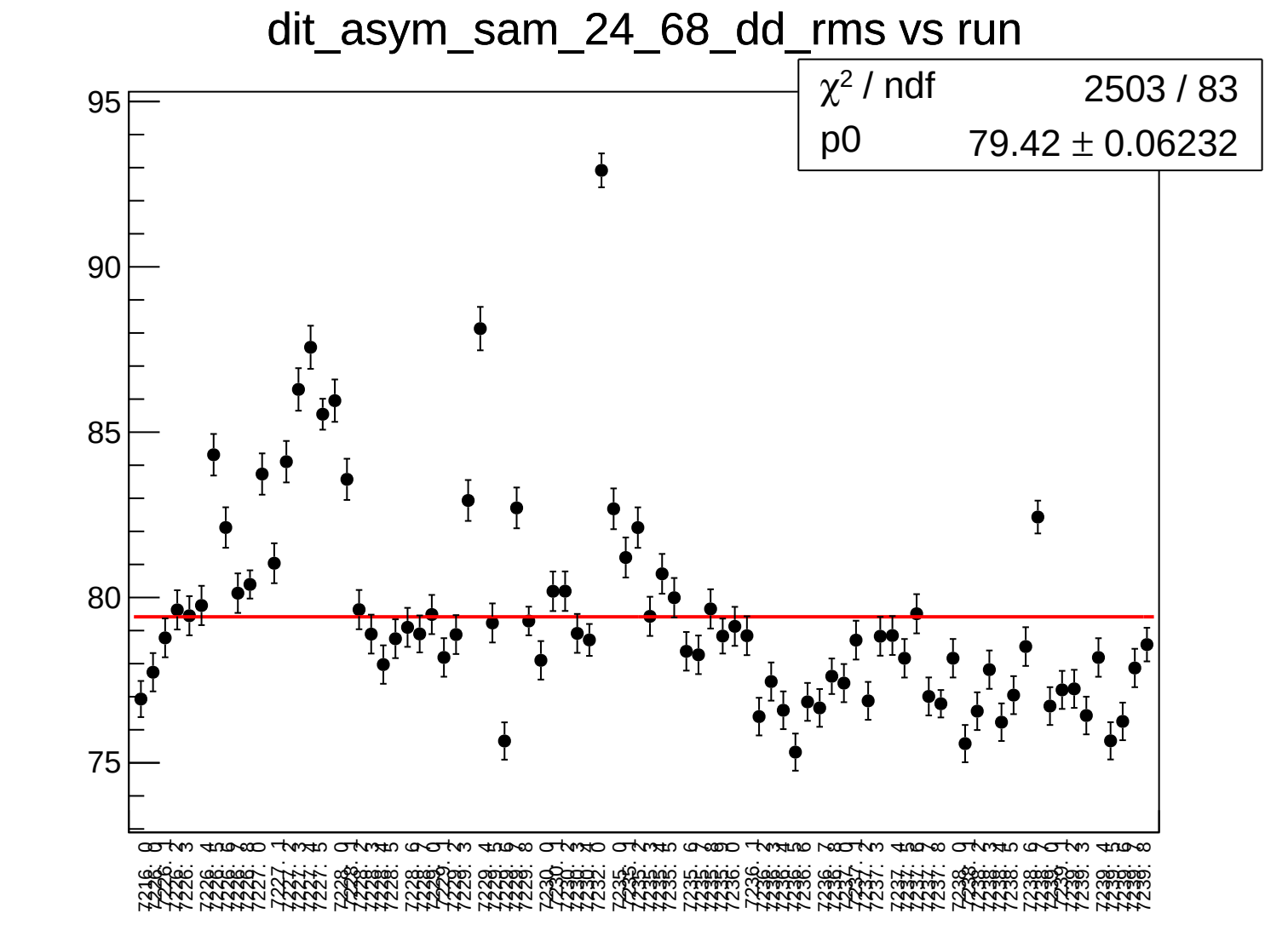

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
χ² / ndf 75.8 / 83
p0 −1984 ± 876.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −2009
Std Dev 0
2
1
0
−1
−2
−3

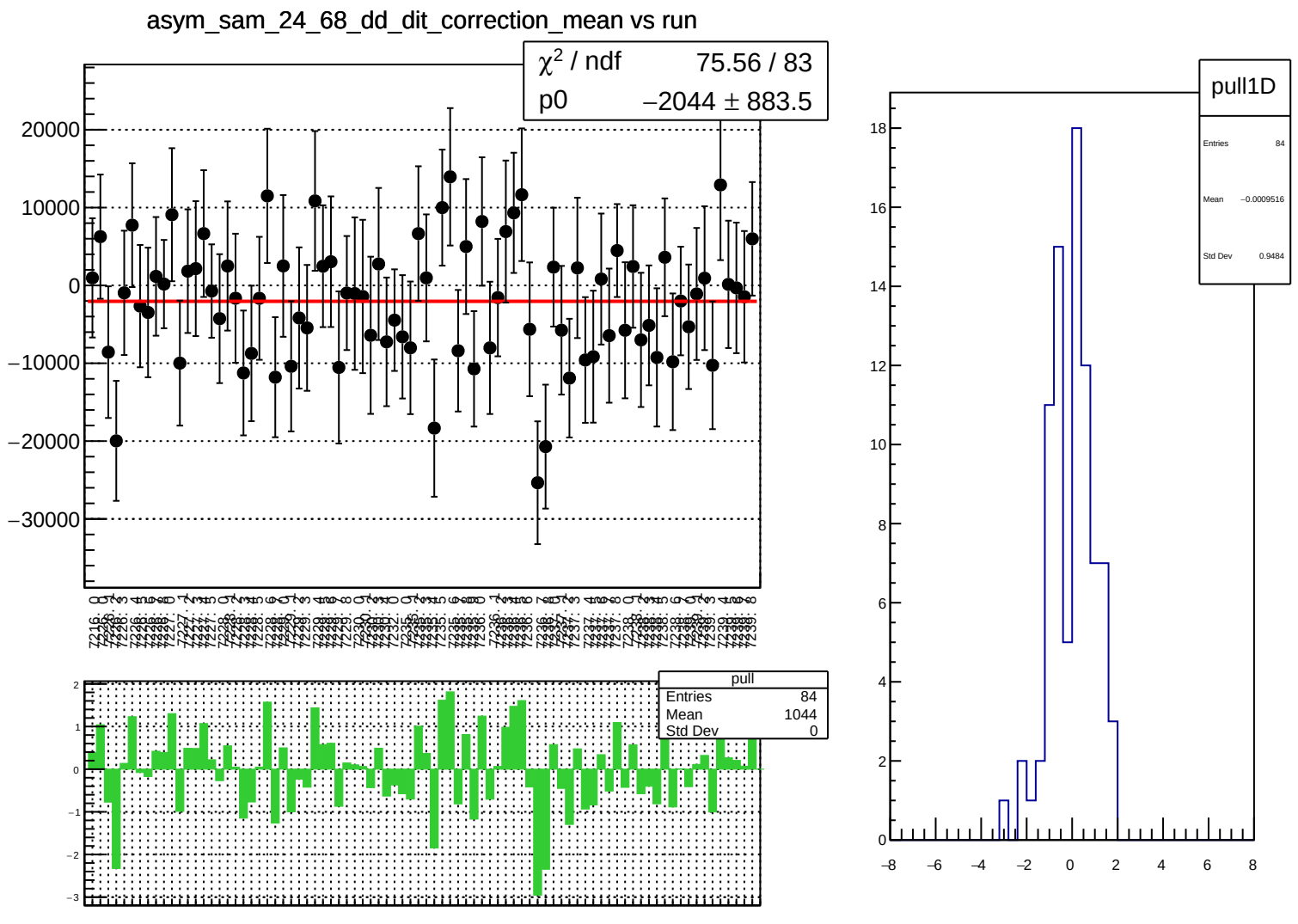

pull1D
Entries 84
Mean 0.0004407
Std Dev 0.9499
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

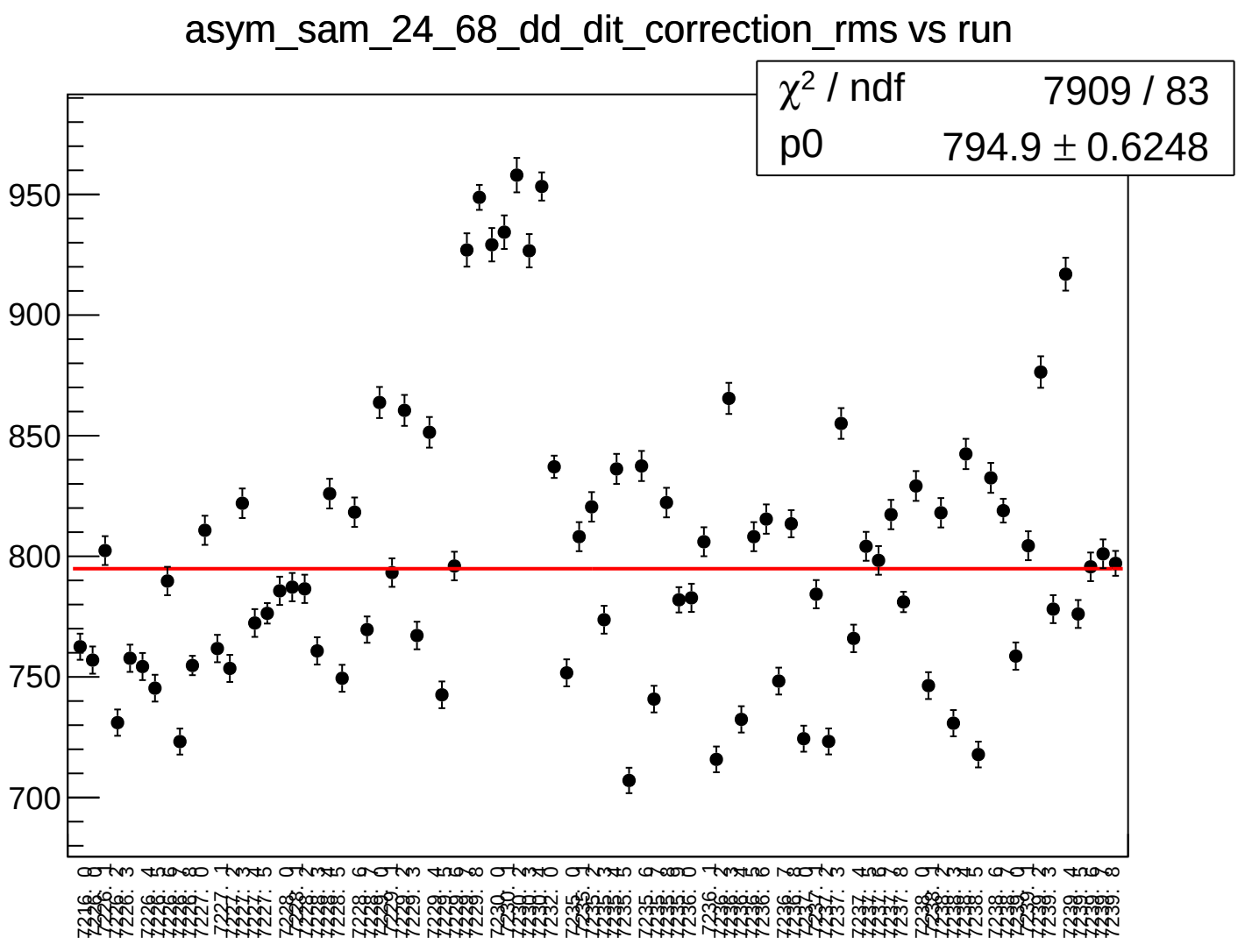

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 8308 / 83
p0 788.8 ± 0.62
950
900
850
800
750
700

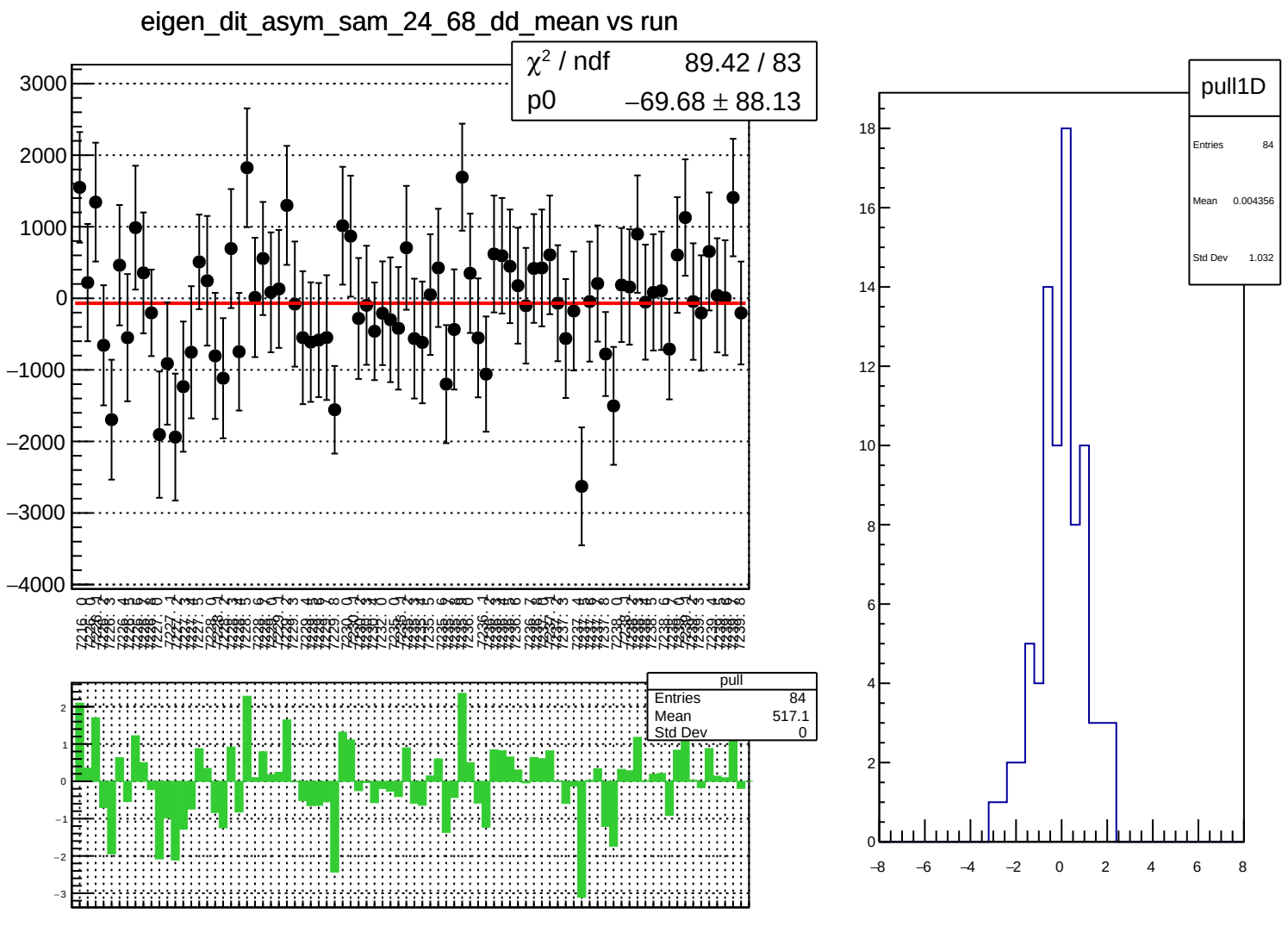

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 89.42 / 83
p0 −69.68 ± 88.13
pull
Entries 84
Mean 517.2
Std Dev 0

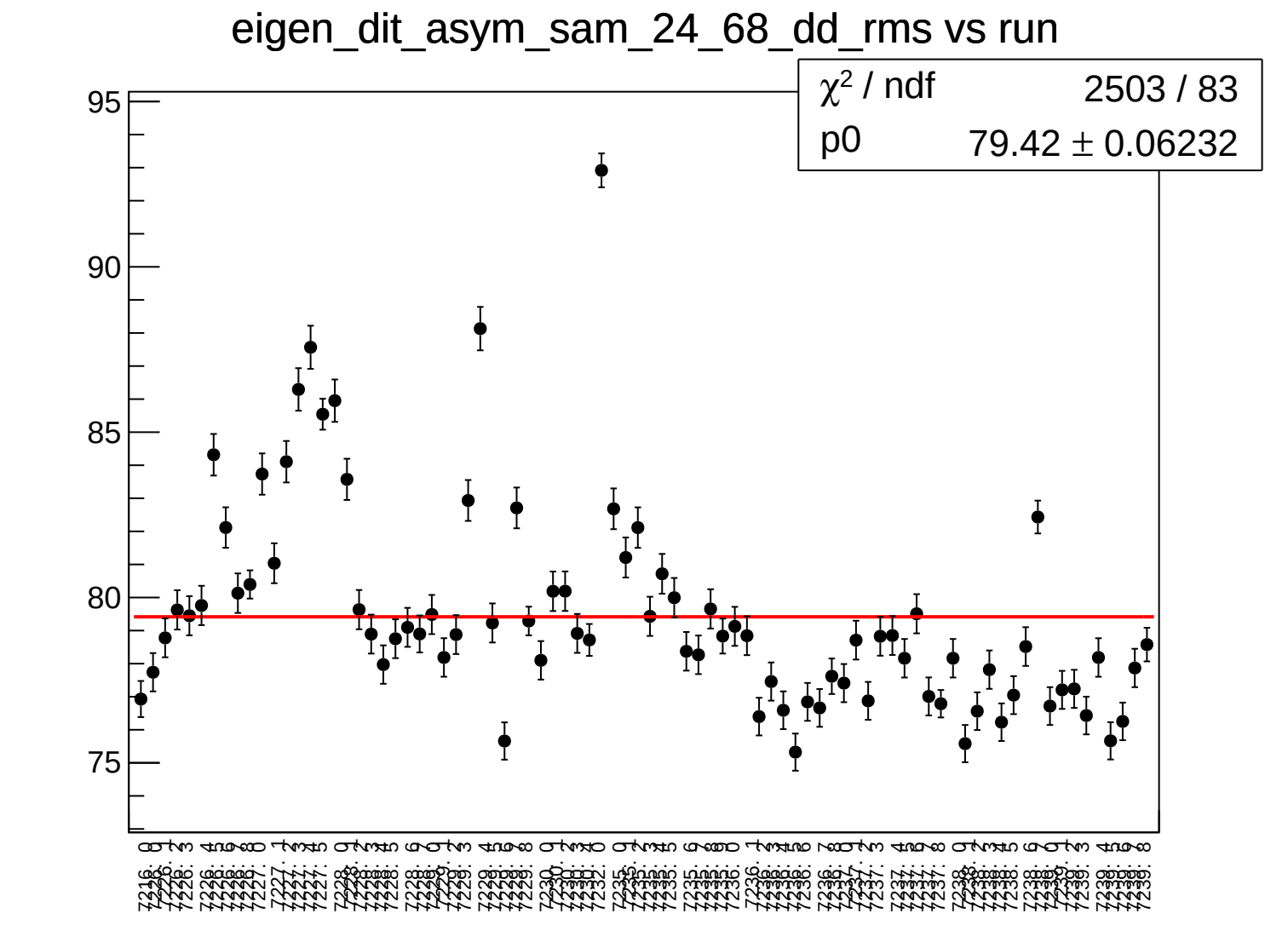

pull1D
Entries 84
Mean 0.004356
Std Dev 1.032

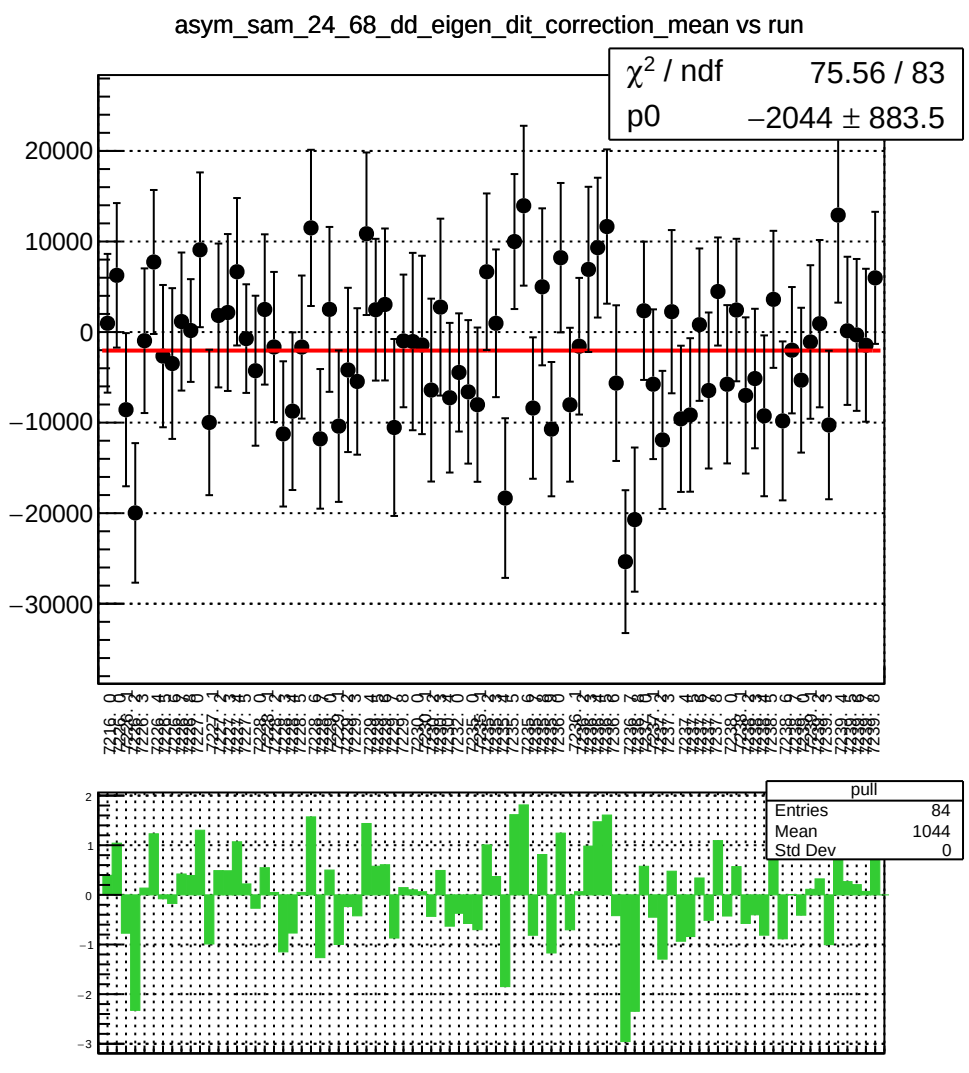

dit_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 2503 / 83
p0 79.42 ± 0.06232
95
90
85
80
75

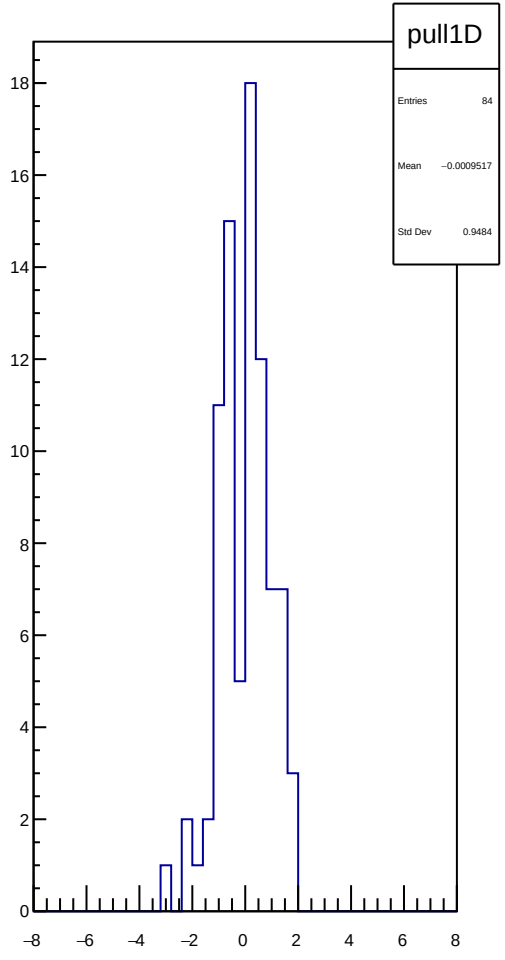

asym_sam_24_68_dd_dit_correction_mean vs run
χ² / ndf 75.56 / 83
p0 −2044 ± 883.5
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean 1044
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean −0.0009516
Std Dev 0.9484
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

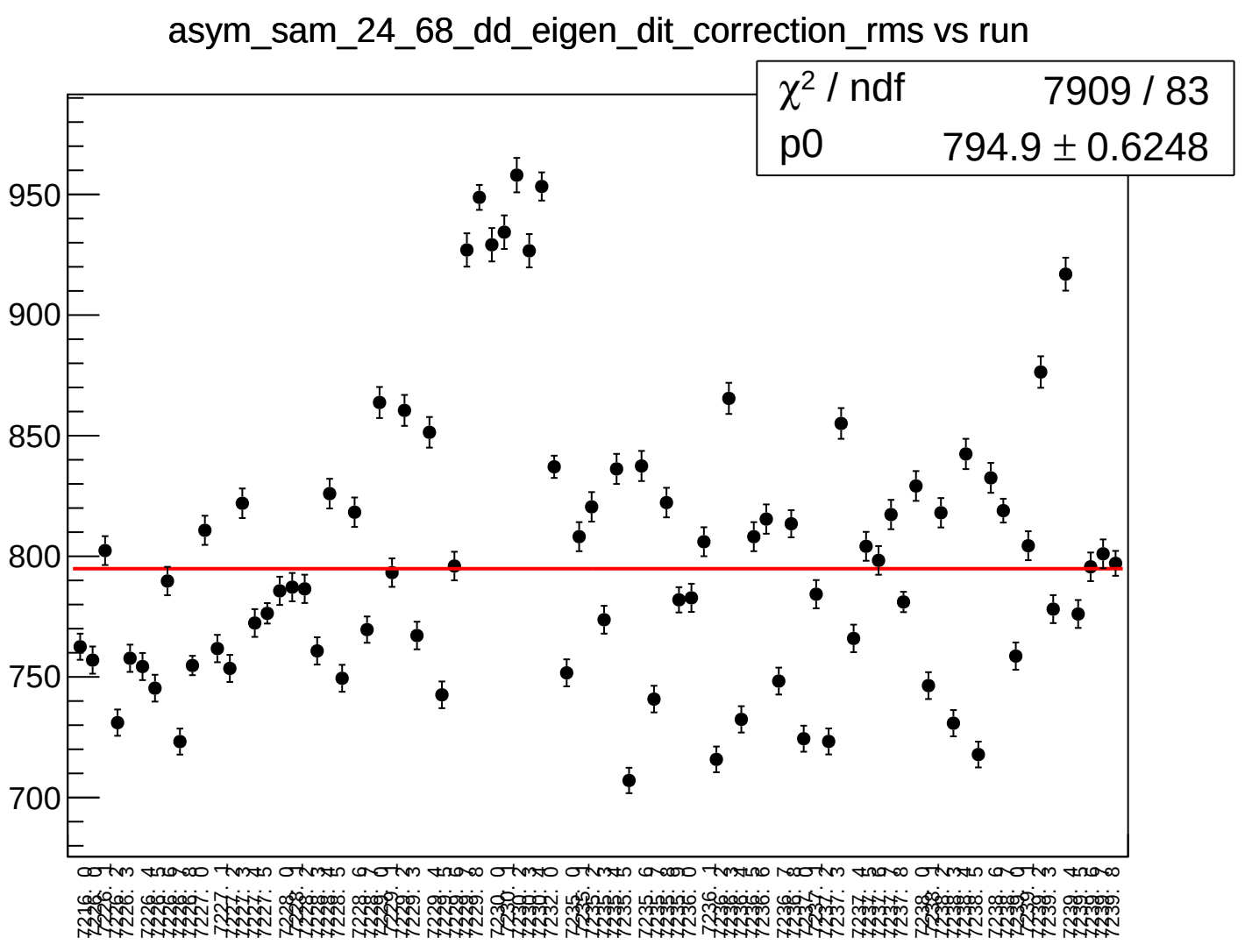

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 7909 / 83
p0 794.9 ± 0.6248
950
900
850
800
750
700

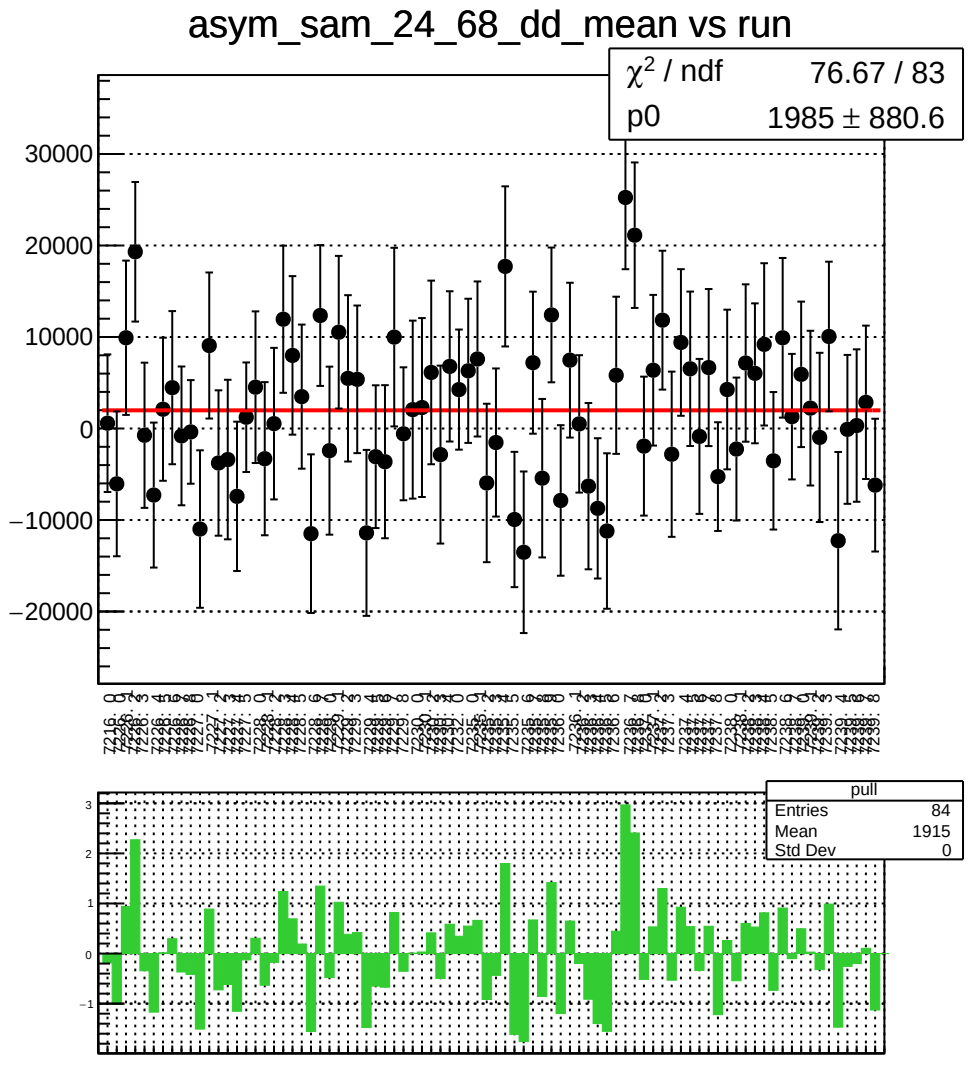

eigen_dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 89.42 / 83
p0 −69.68 ± 88.13
pull
Entries 84
Mean 517.1
Std Dev 0
pull1D
Entries 84
Mean 0.004356
Std Dev 1.032

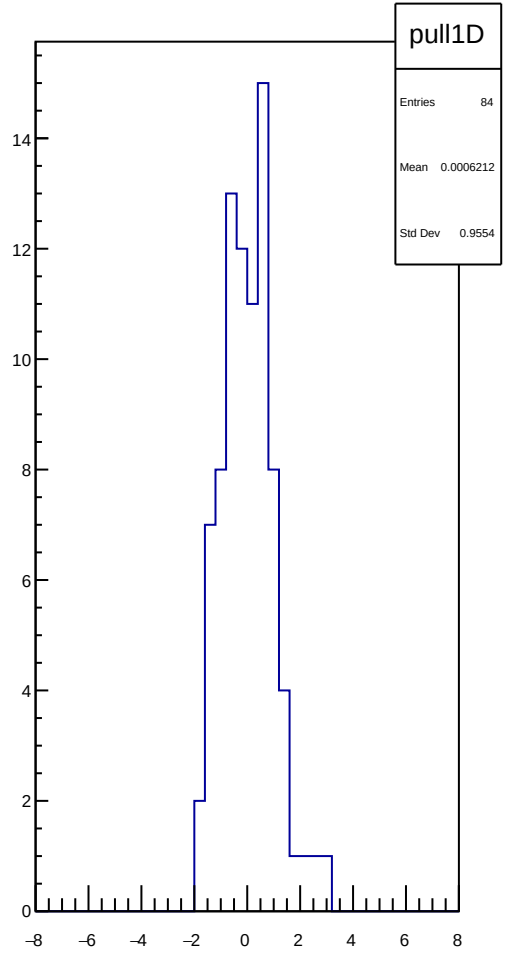

eigen_dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 2503 / 83
p0 79.42 ± 0.06232
95
90
85
80
75

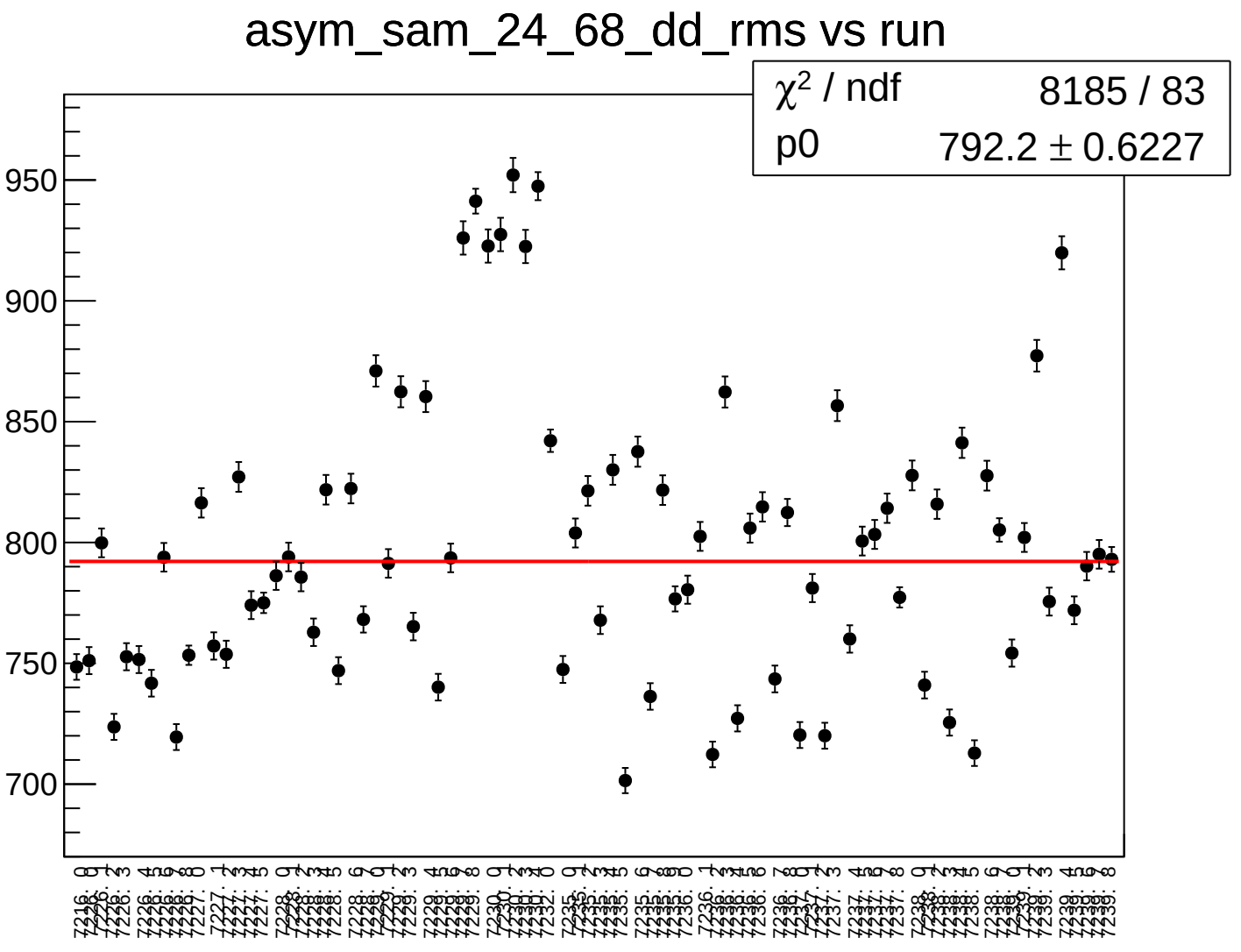

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
χ² / ndf 75.56 / 83
p0 −2044 ± 883.5
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean 1044
Std Dev 0
2
1
0
−1
−2
−3

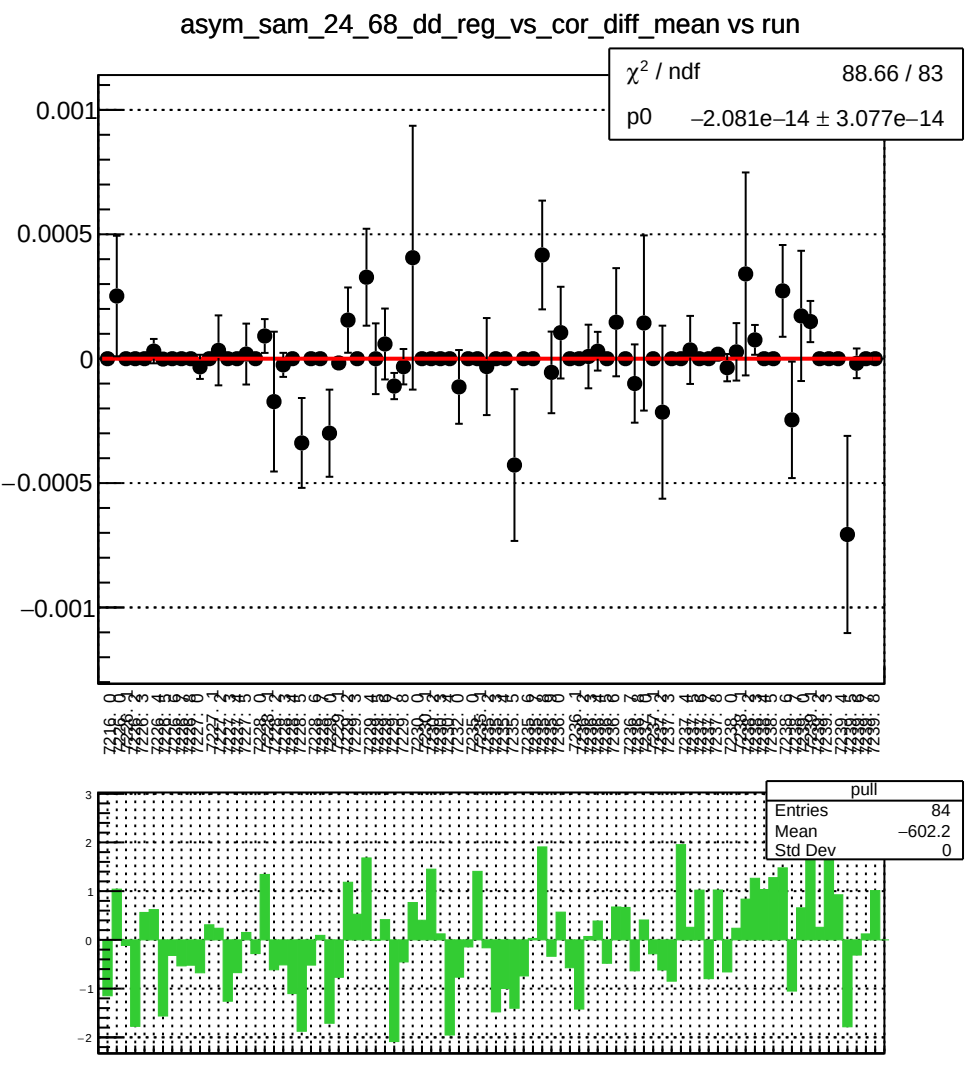

pull1D
Entries 84
Mean −0.0009517
Std Dev 0.9484
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

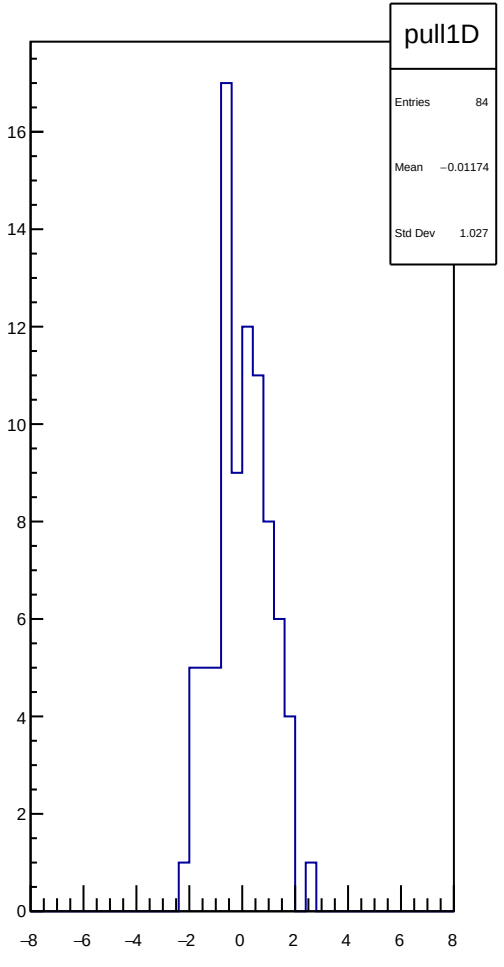

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 7909 / 83
p0 794.9 ± 0.6248
950
900
850
800
750
700

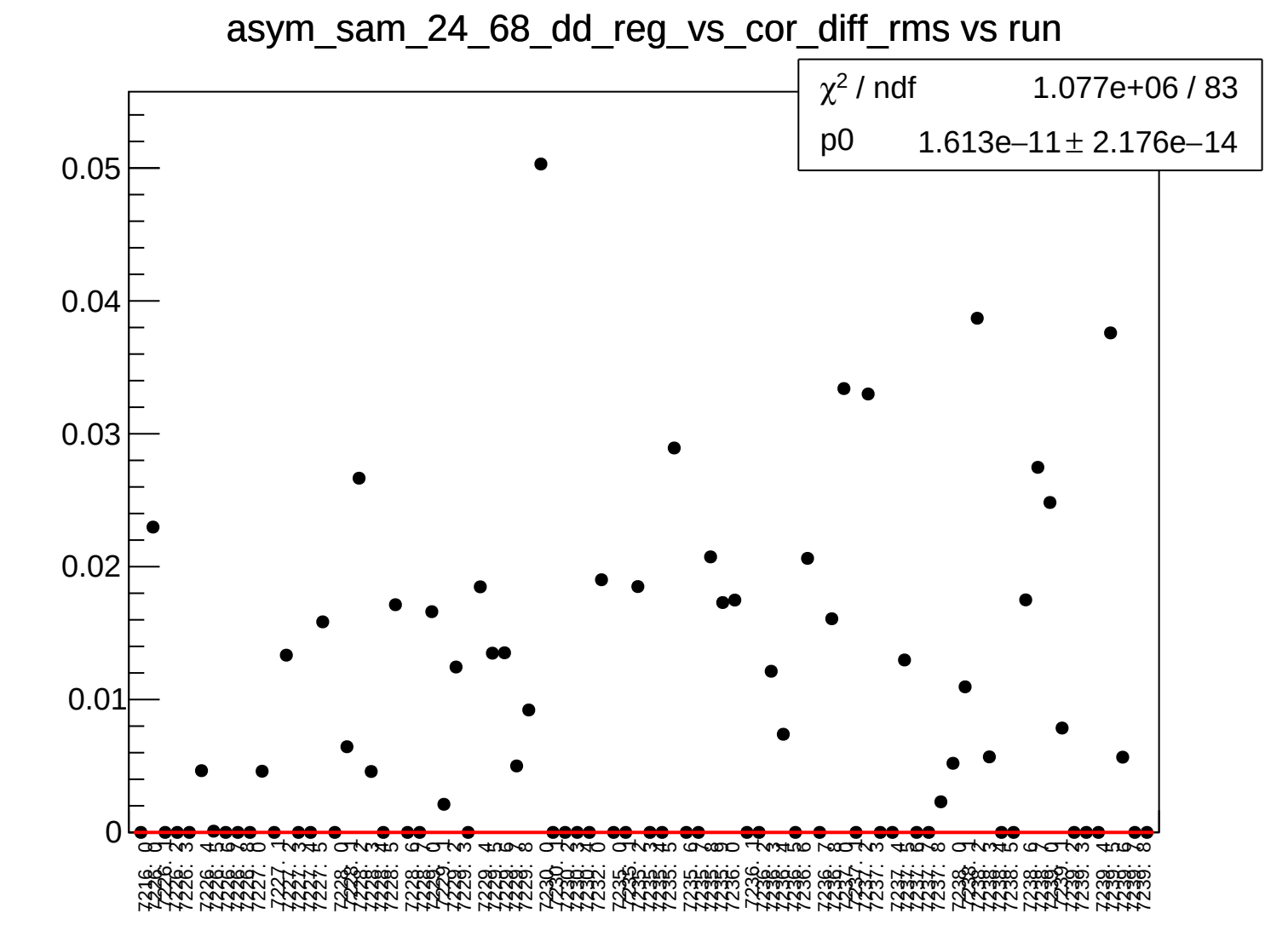

asym_sam_24_68_dd_mean vs run
χ² / ndf 76.67 / 83
p0 1985 ± 880.6
30000
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 1915
Std Dev 0
3
2
1
0
−1

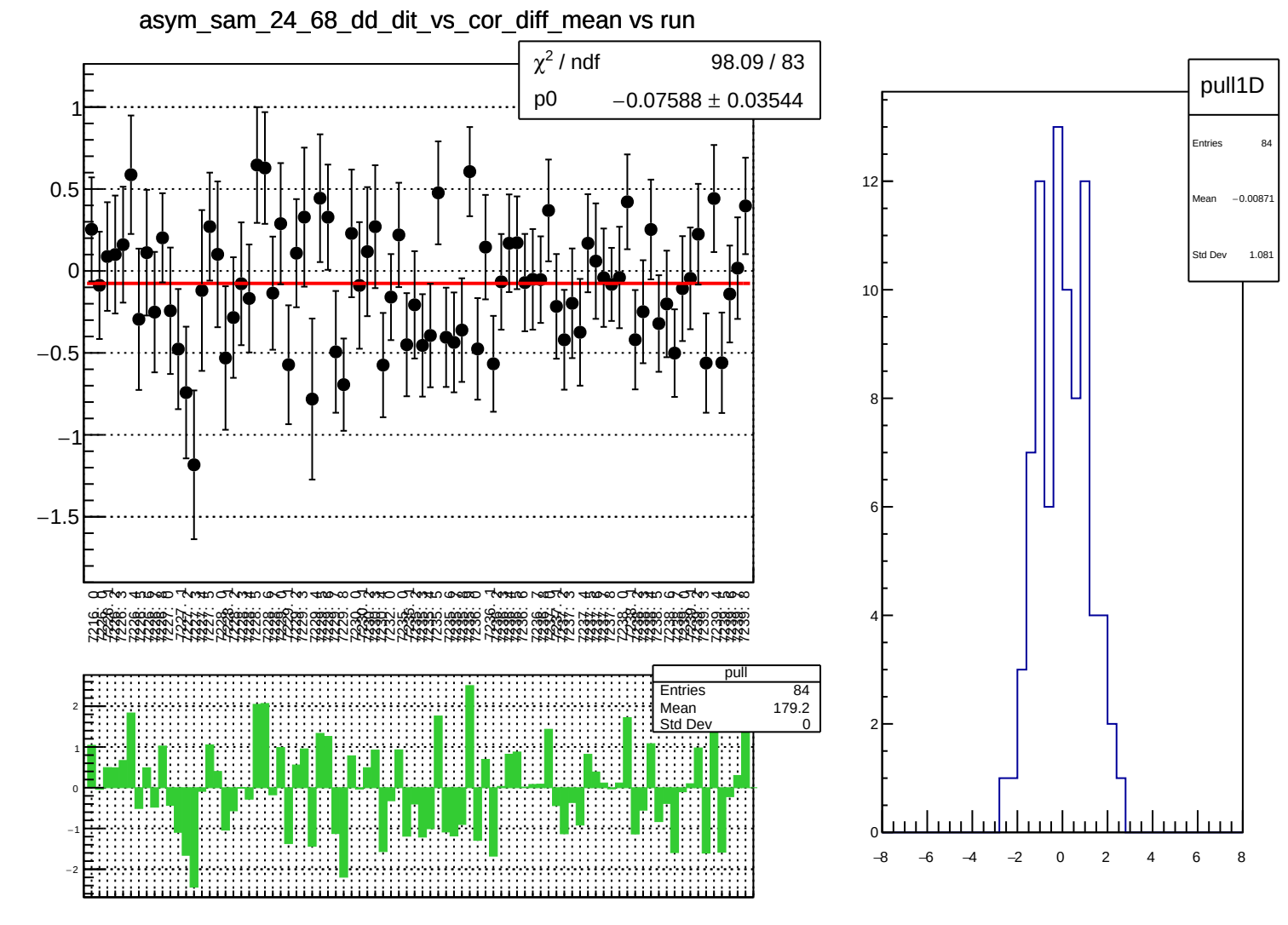

pull1D
Entries 84
Mean 0.0006212
Std Dev 0.9554
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

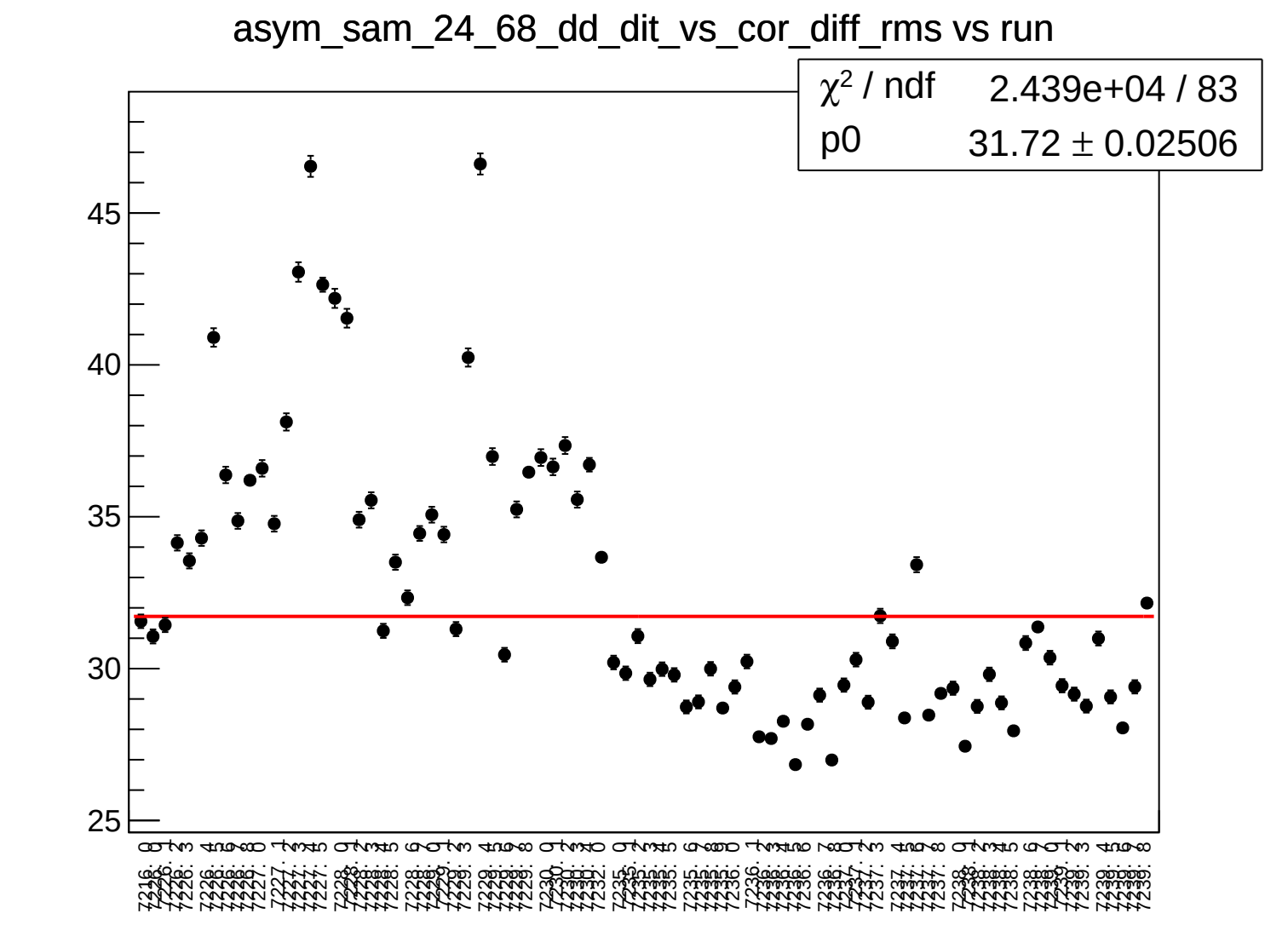

asym_sam_24_68_dd_rms vs run
χ² / ndf 8185 / 83
p0 792.2 ± 0.6227
950
900
850
800
750
700

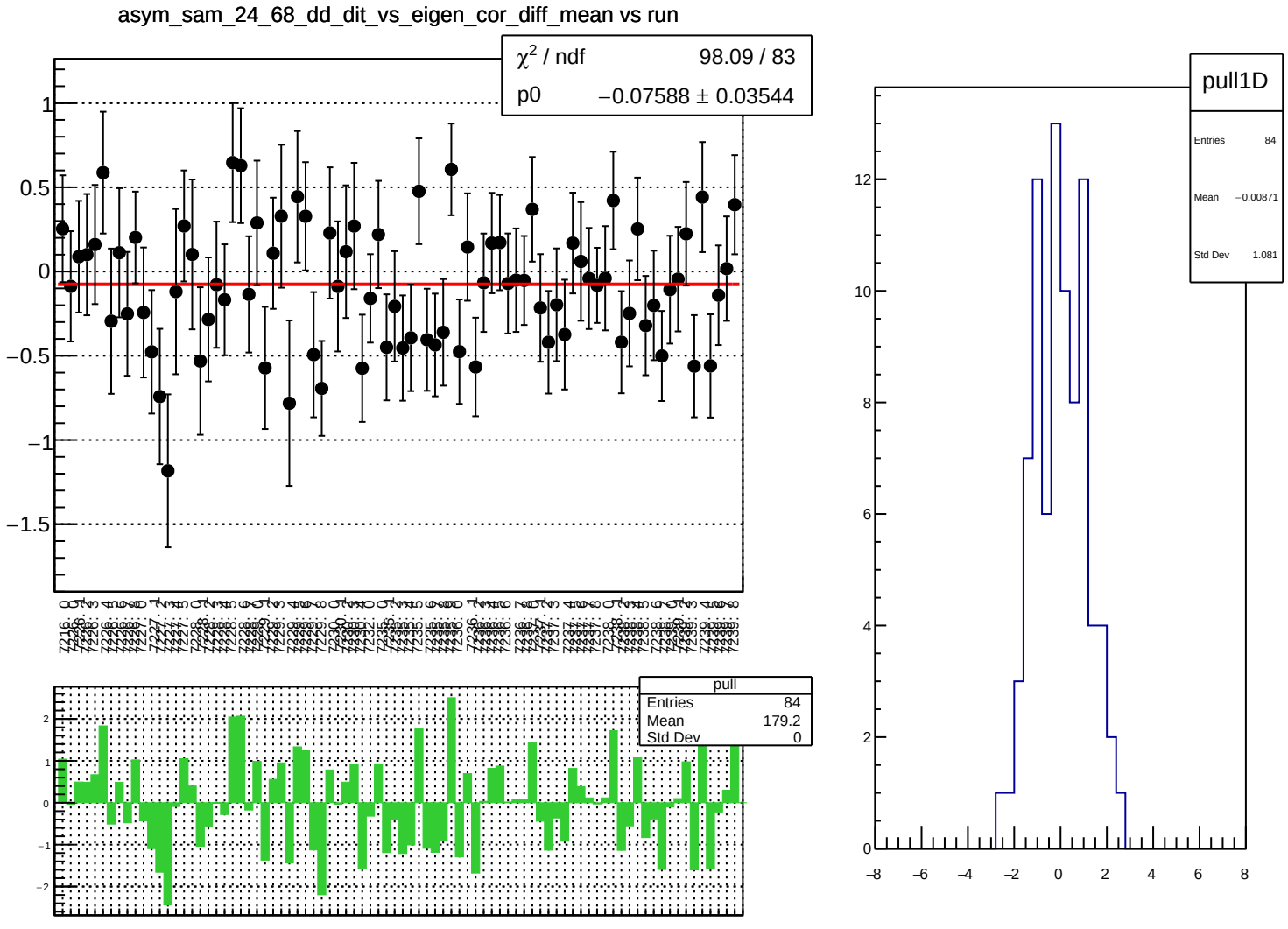

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 88.66 / 83
p0 −2.081e−14 ± 3.077e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 84
Mean −602.2
Std Dev 0
3
2
1
0
−1
−2

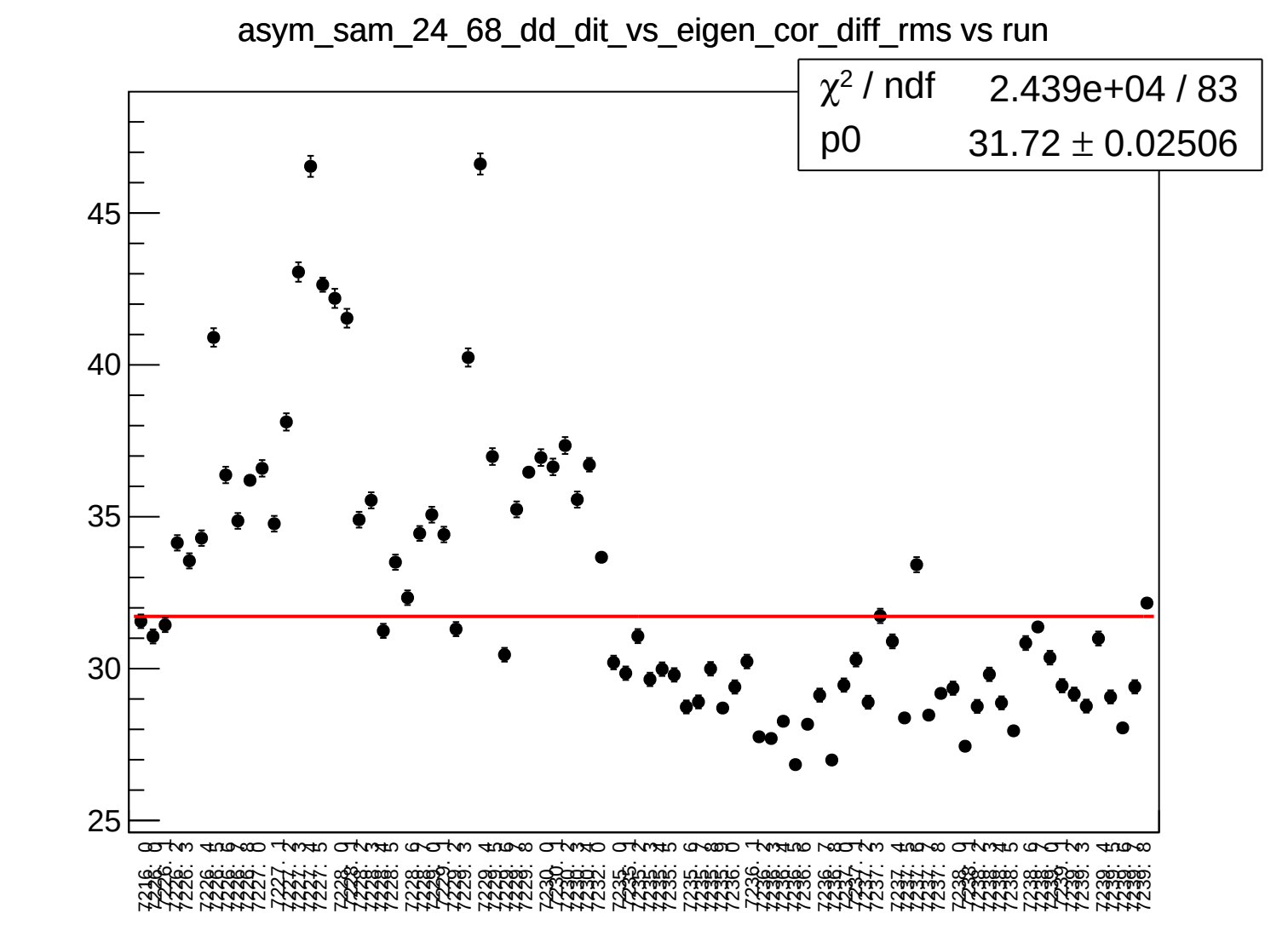

pull1D
Entries 84
Mean −0.01174
Std Dev 1.027
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

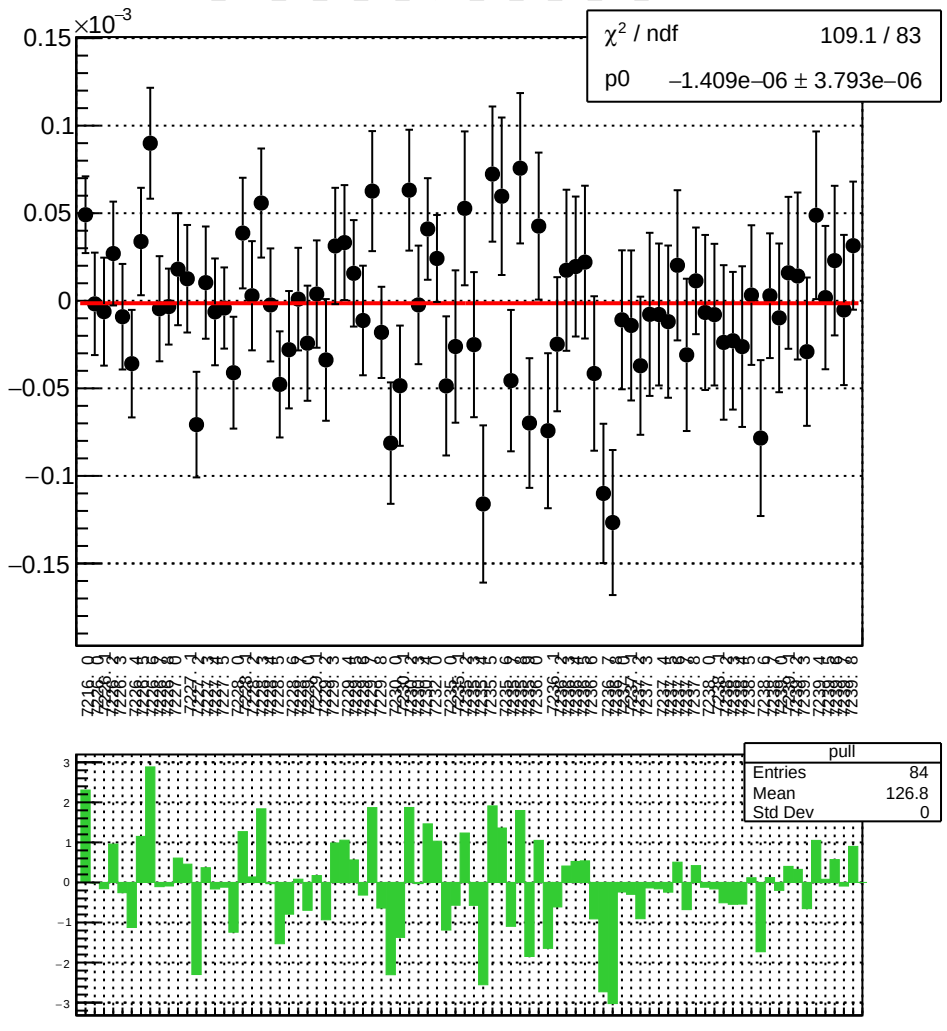

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.077e+06 / 83
p0 1.613e−11 ± 2.176e−14
0.05
0.04
0.03
0.02
0.01
0

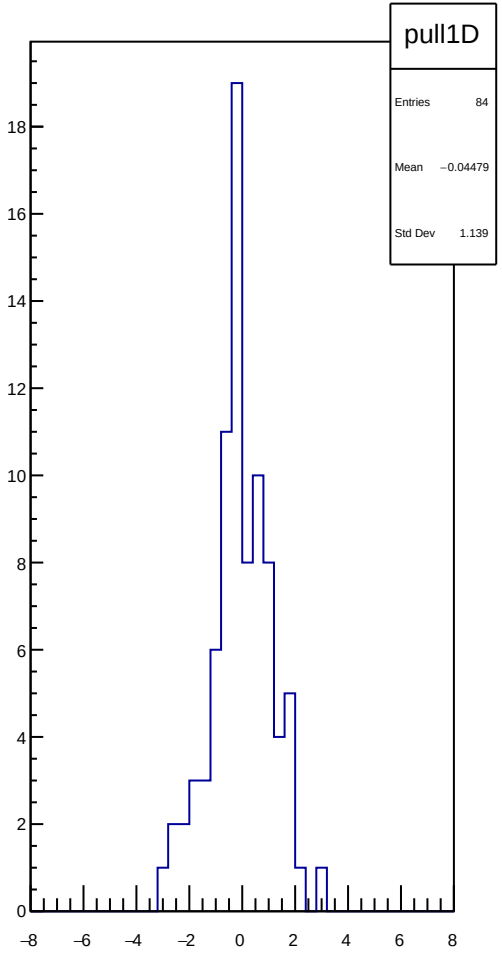

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 98.09 / 83
p0 −0.07588 ± 0.03544
pull
Entries 84
Mean 179.2
Std Dev 0
pull1D
Entries 84
Mean −0.00871
Std Dev 1.081

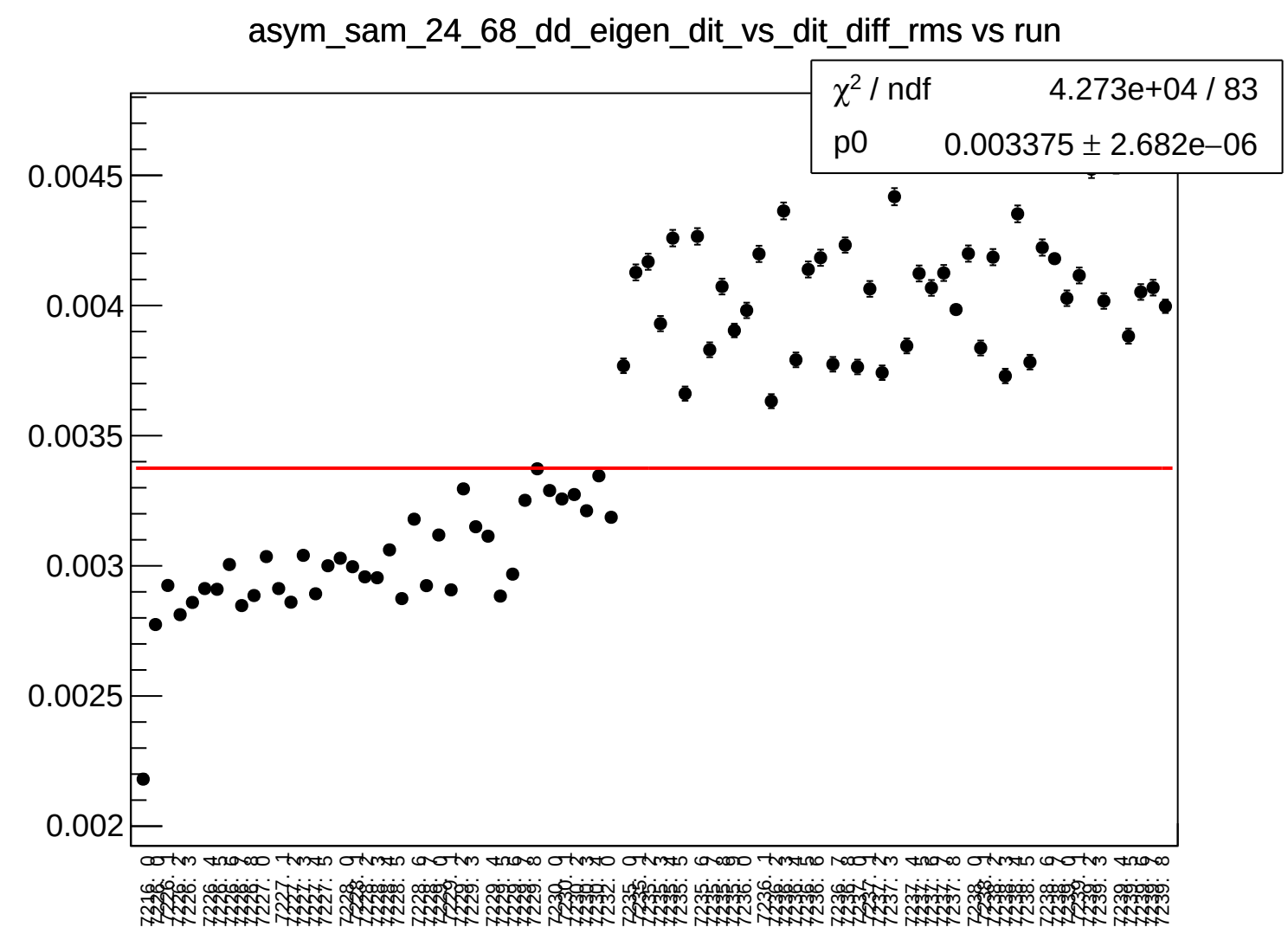

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.439e+04 / 83
p0 31.72 ± 0.02506
45
40
35
30
25

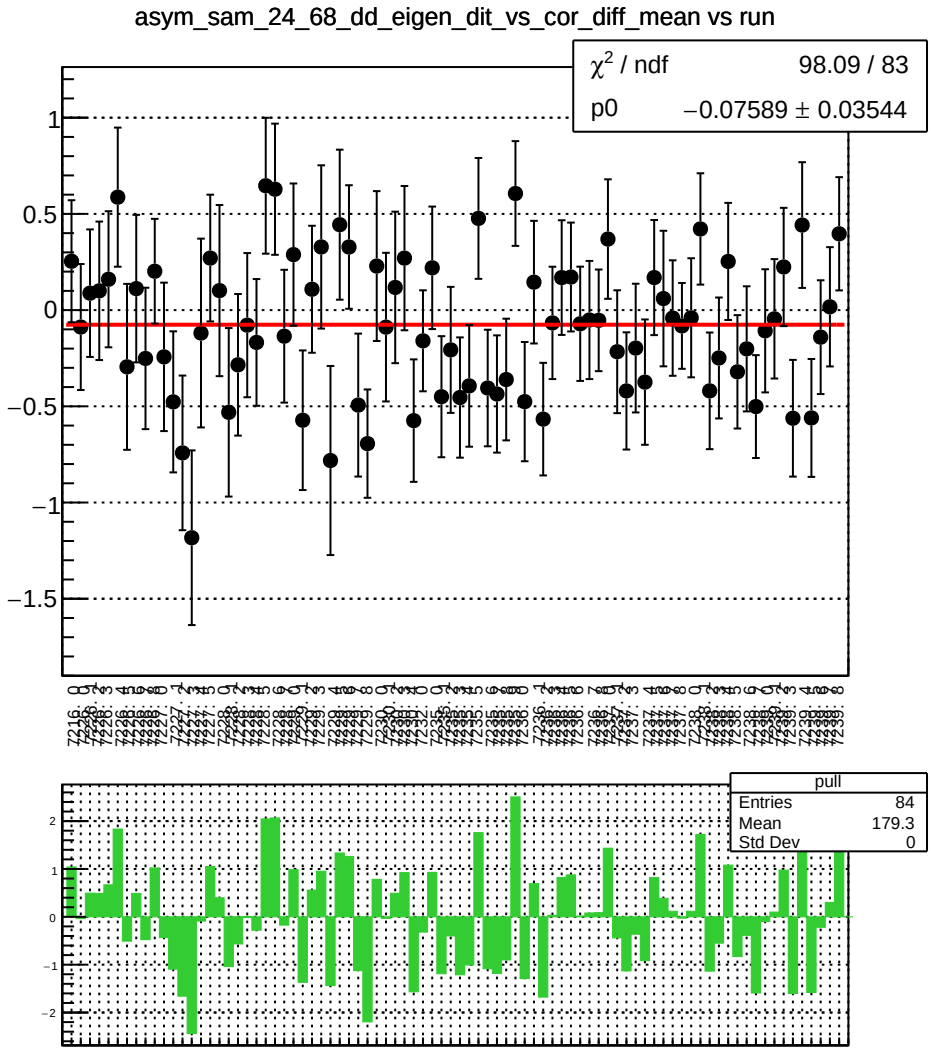

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.09 / 83
p0 −0.07588 ± 0.03544
pull
Entries 84
Mean 179.2
Std Dev 0
pull1D
Entries 84
Mean −0.00871
Std Dev 1.081

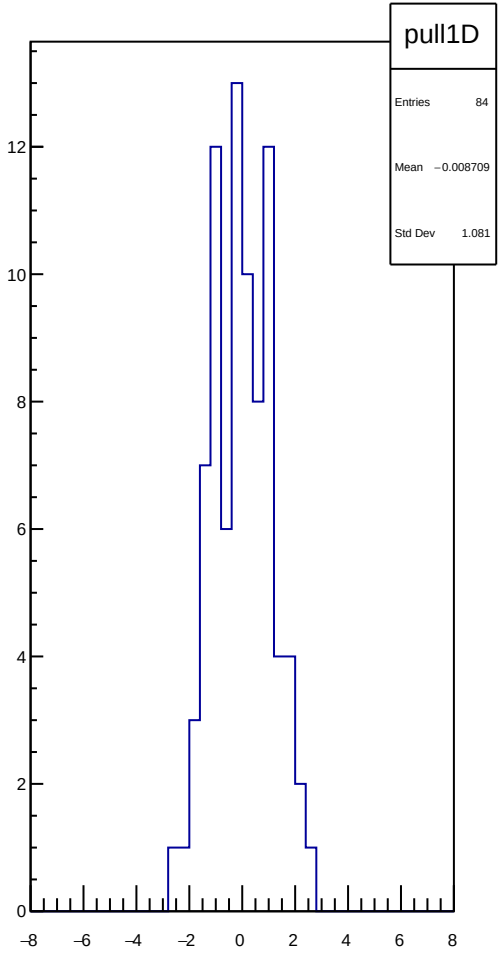

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.439e+04 / 83
p0 31.72 ± 0.02506
45
40
35
30
25

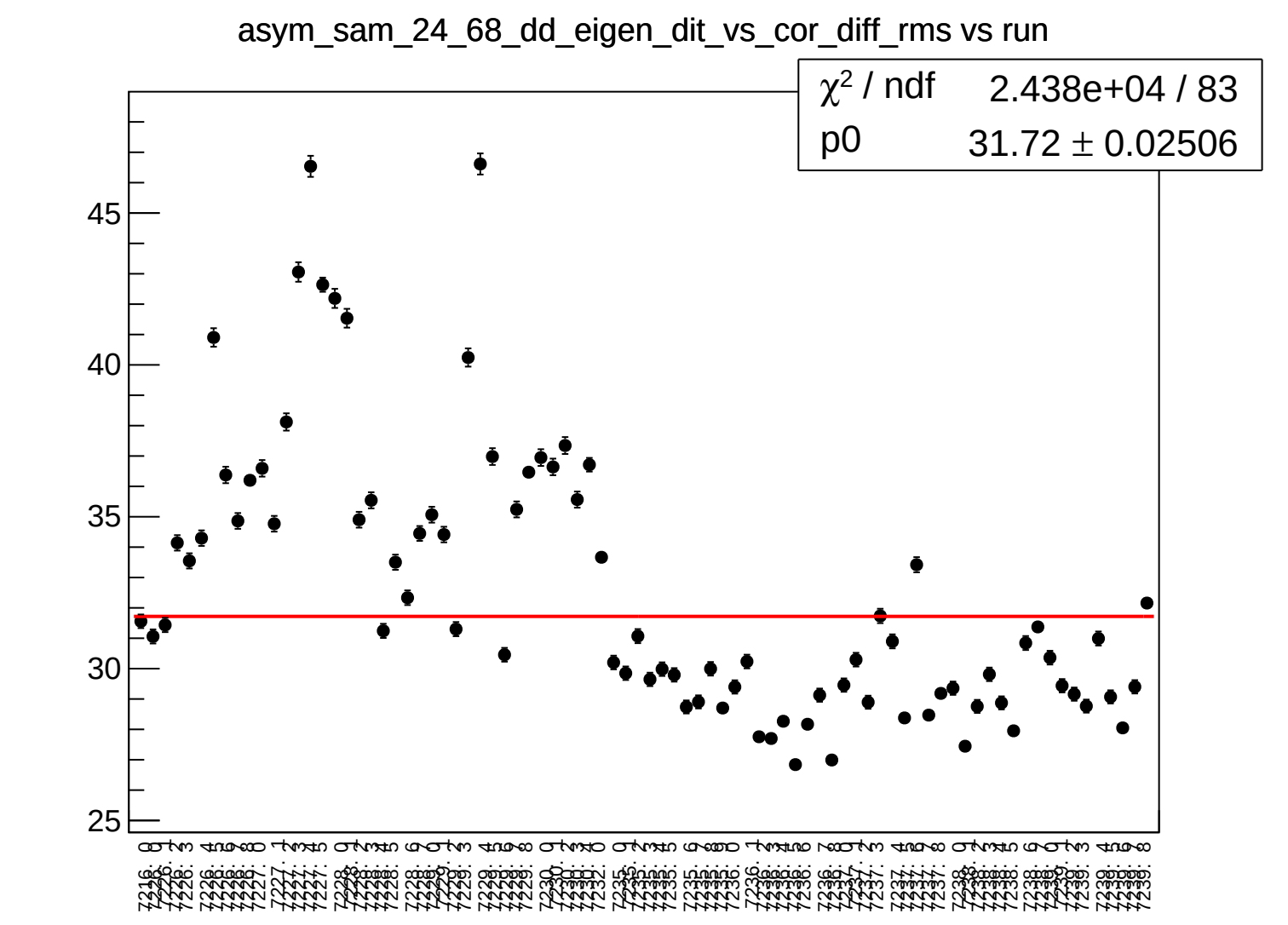

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 109.1 / 83
p0 −1.409e−06 ± 3.793e−06
pull
Entries 84
Mean 126.8
Std Dev 0

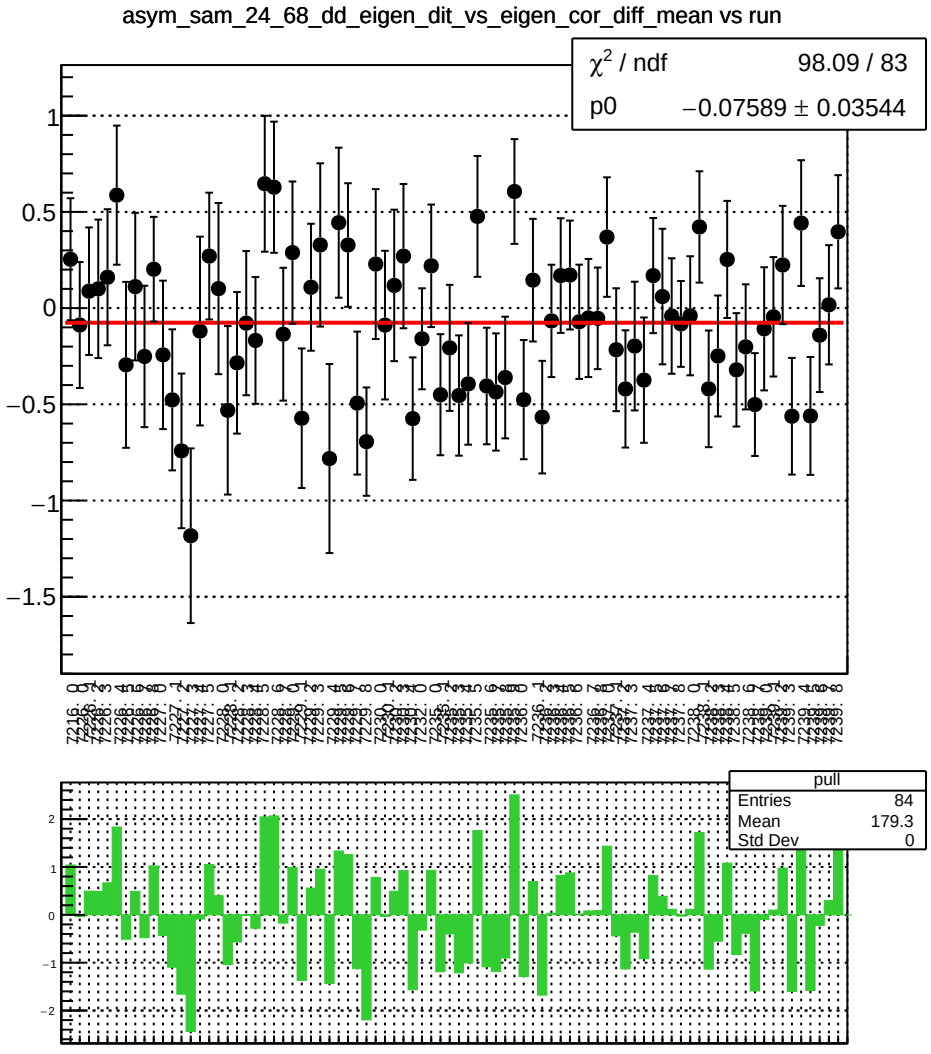

pull1D
Entries 84
Mean −0.04479
Std Dev 1.139

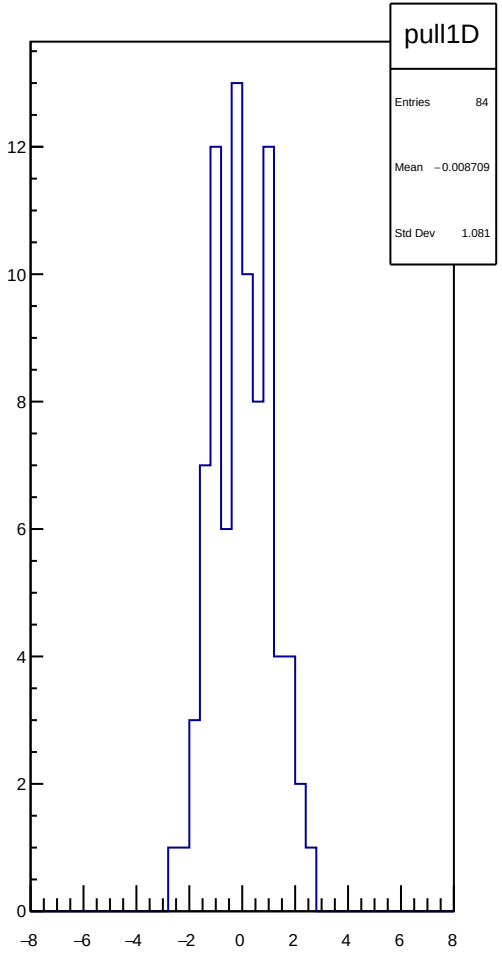

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.273e+04 / 83
p0 0.003375 ± 2.682e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002

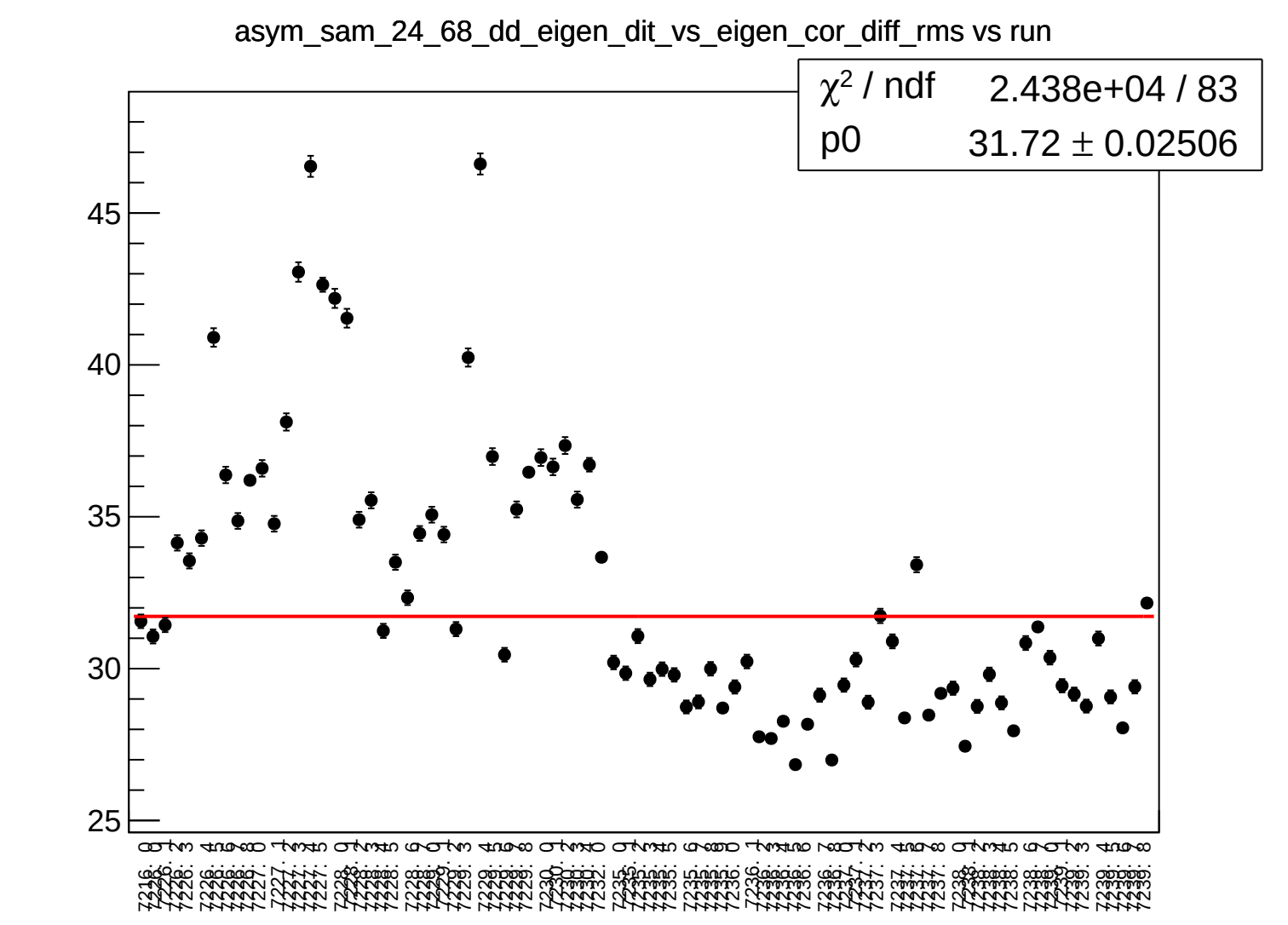

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.09 / 83
p0 −0.07589 ± 0.03544
pull
Entries 84
Mean 179.3
Std Dev 0

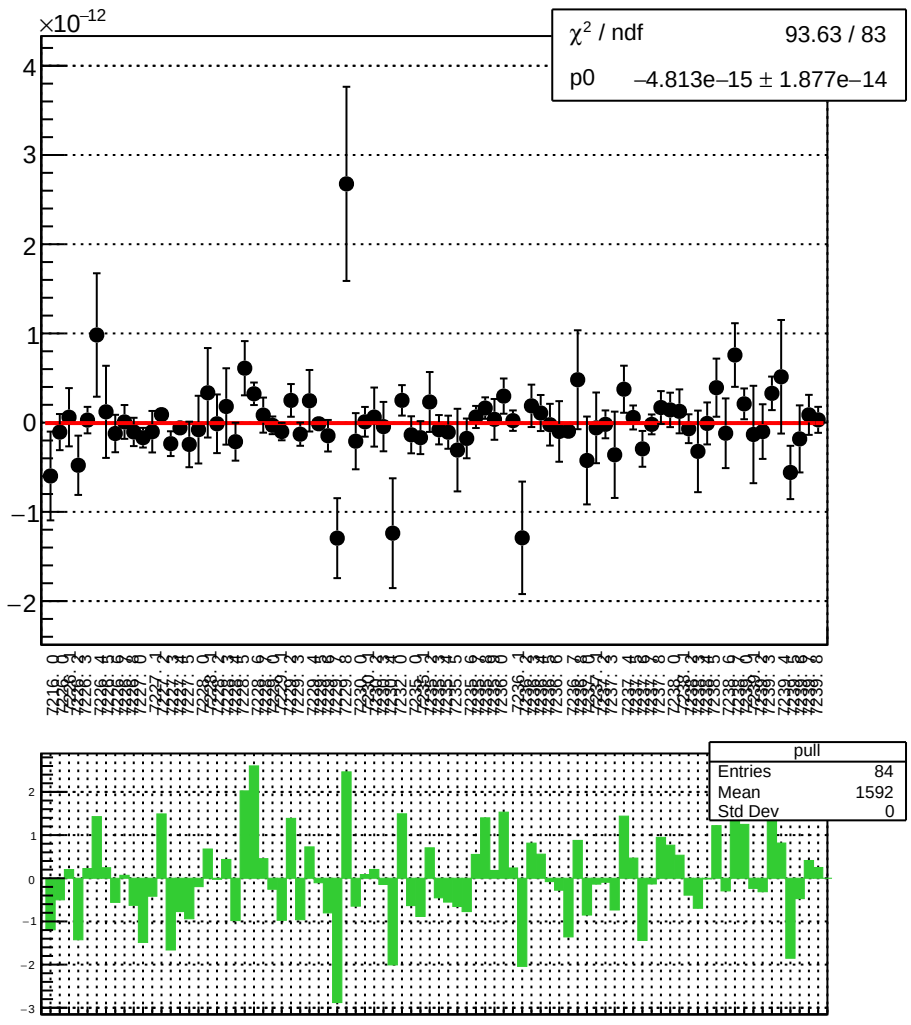

pull1D
Entries 84
Mean −0.008709
Std Dev 1.081

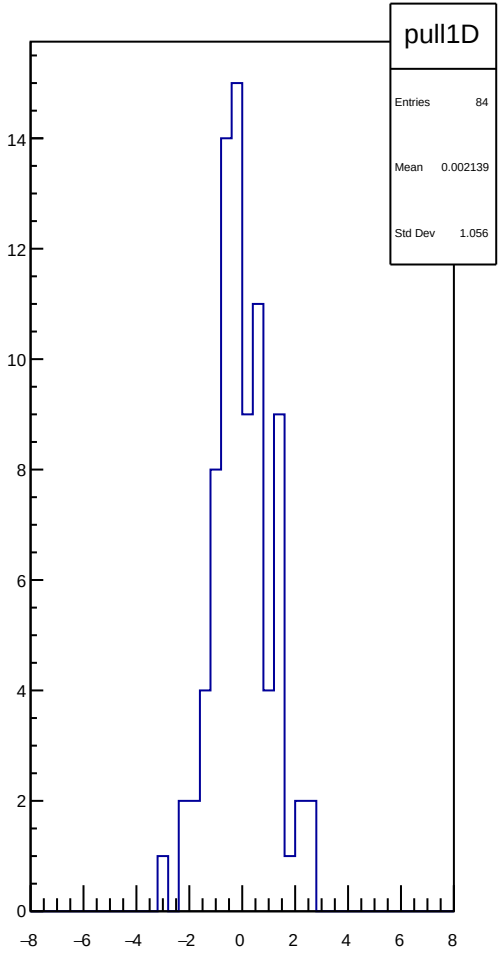

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.438e+04 / 83
p0 31.72 ± 0.02506
45
40
35
30
25

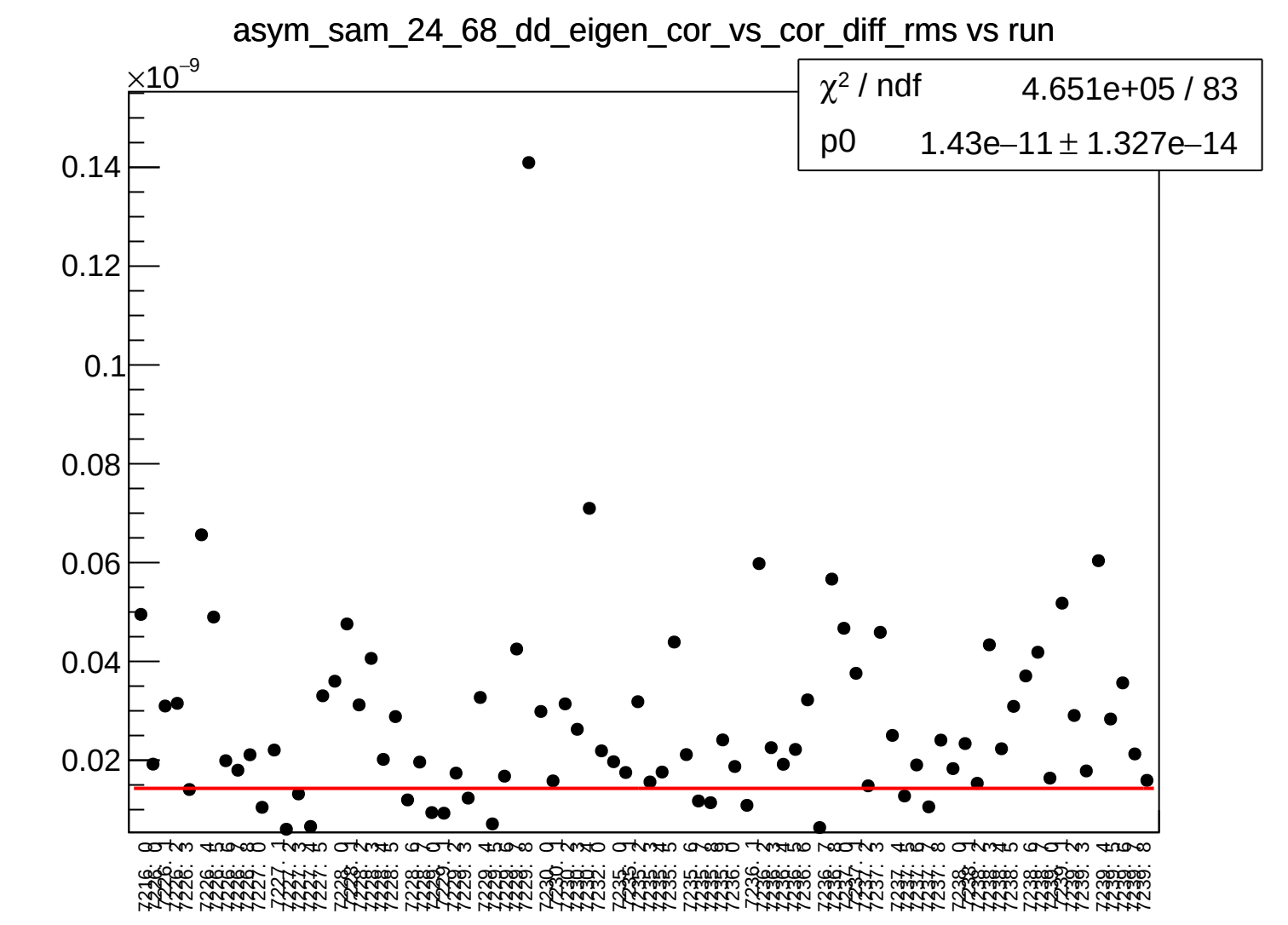

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.09 / 83
p0 −0.07589 ± 0.03544
pull
Entries 84
Mean 179.3
Std Dev 0

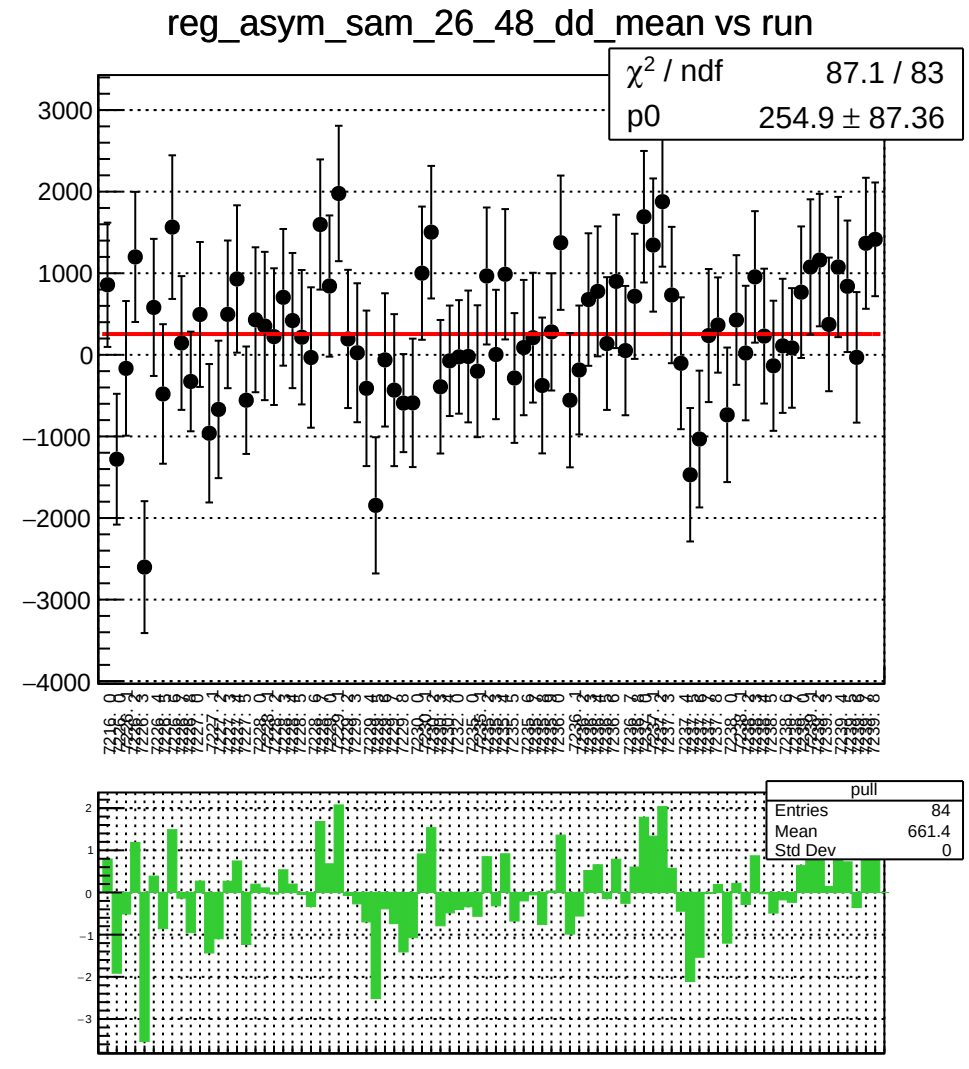

pull1D
Entries 84
Mean −0.008709
Std Dev 1.081

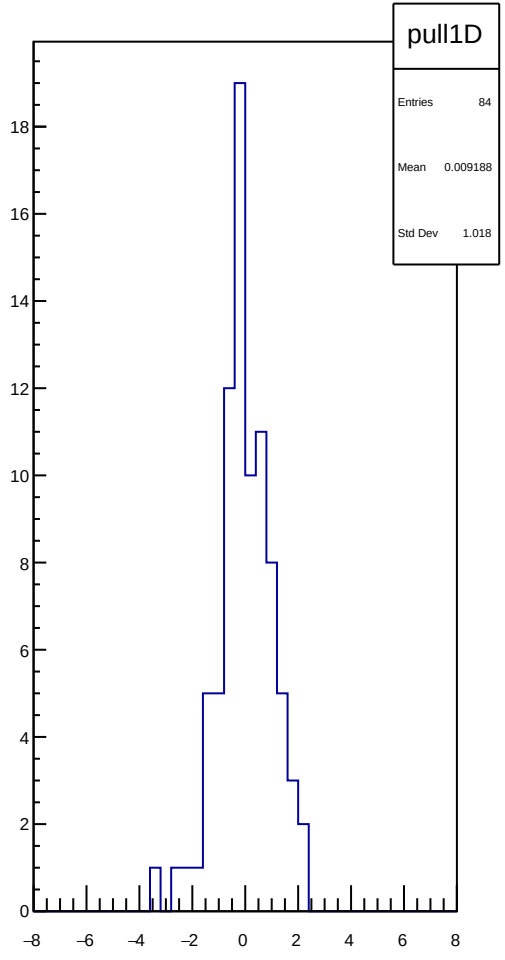

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.438e+04 / 83
p0 31.72 ± 0.02506
45
40
35
30
25

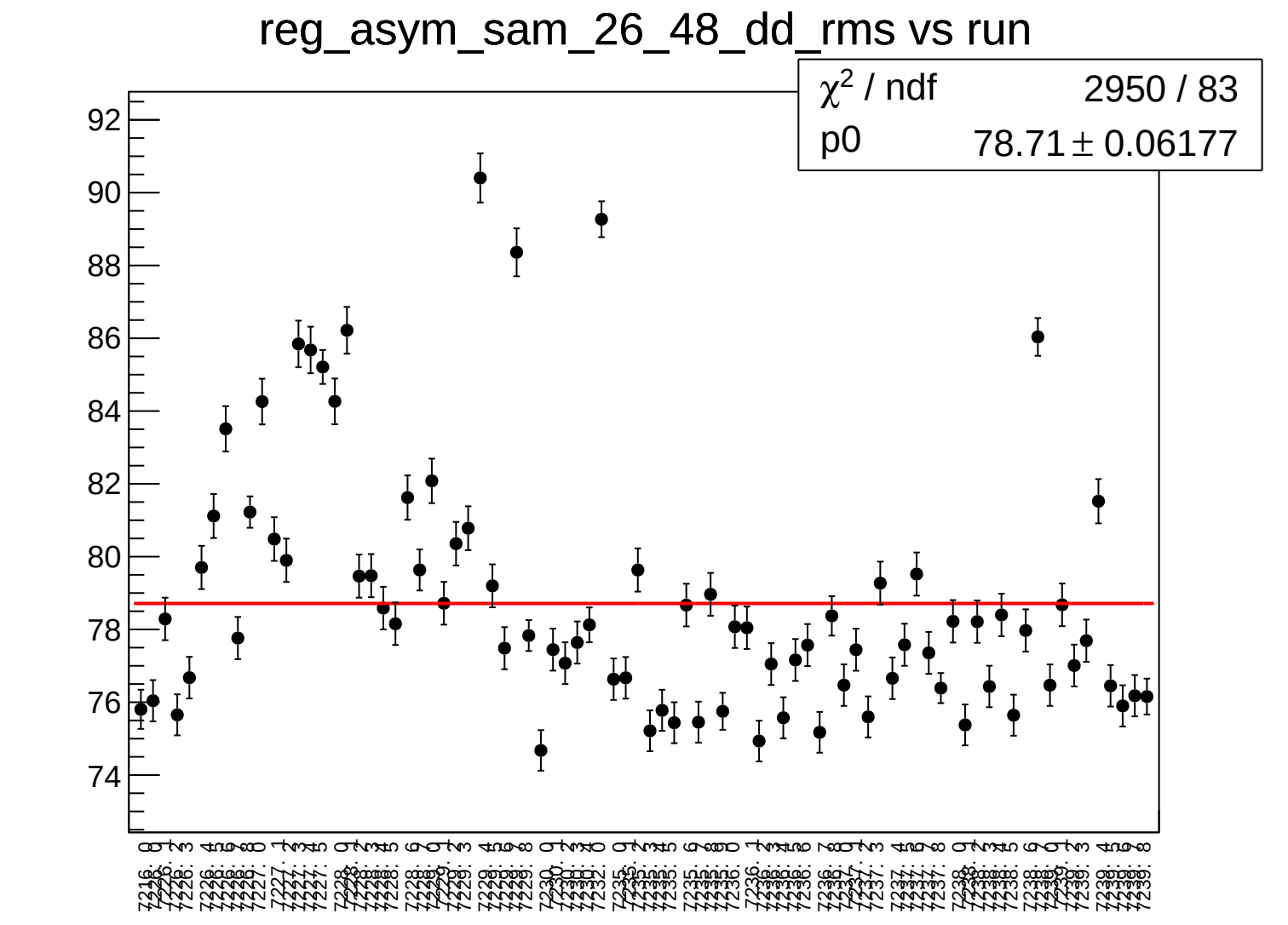

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.63 / 83
p0 −4.813e−15 ± 1.877e−14
pull
Entries 84
Mean 1592
Std Dev 0

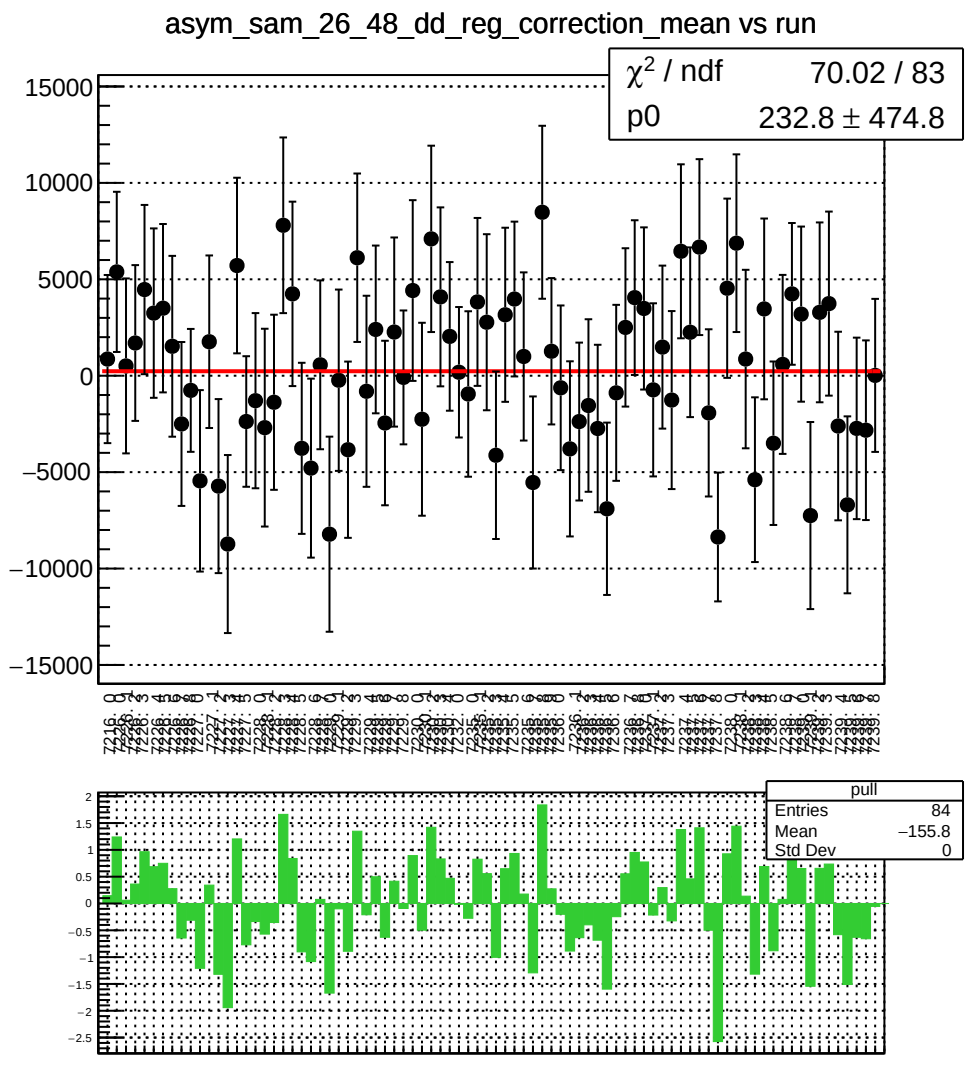

pull1D
Entries 84
Mean 0.002139
Std Dev 1.056

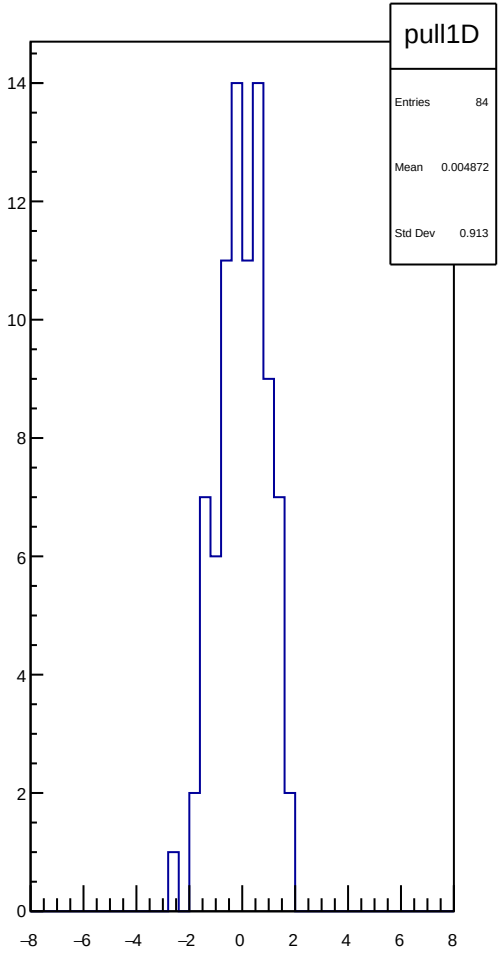

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.651e+05 / 83
p0 1.43e−11 ± 1.327e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

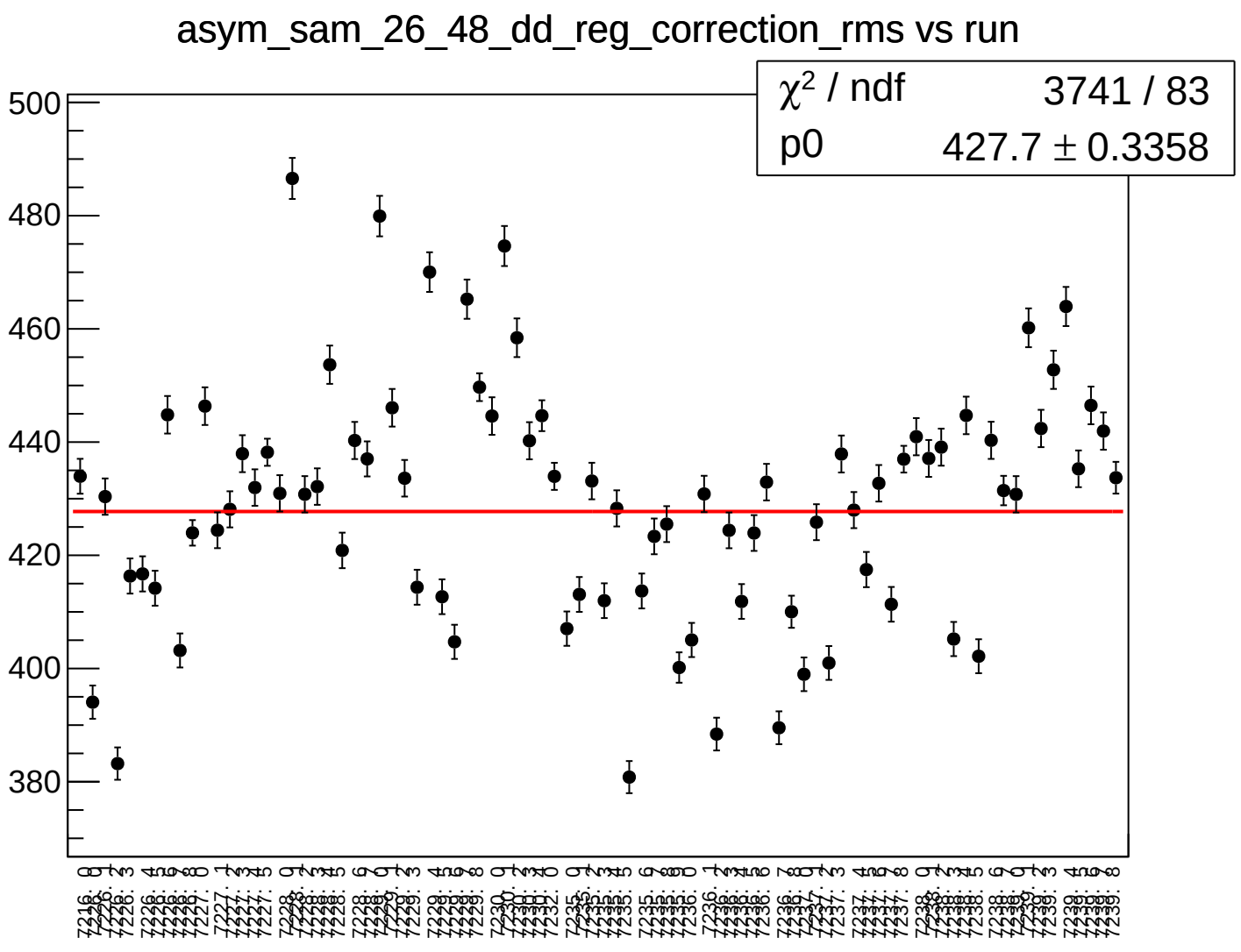

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 87.1 / 83
p0 254.9 ± 87.36
pull
Entries 84
Mean 661.4
Std Dev 0

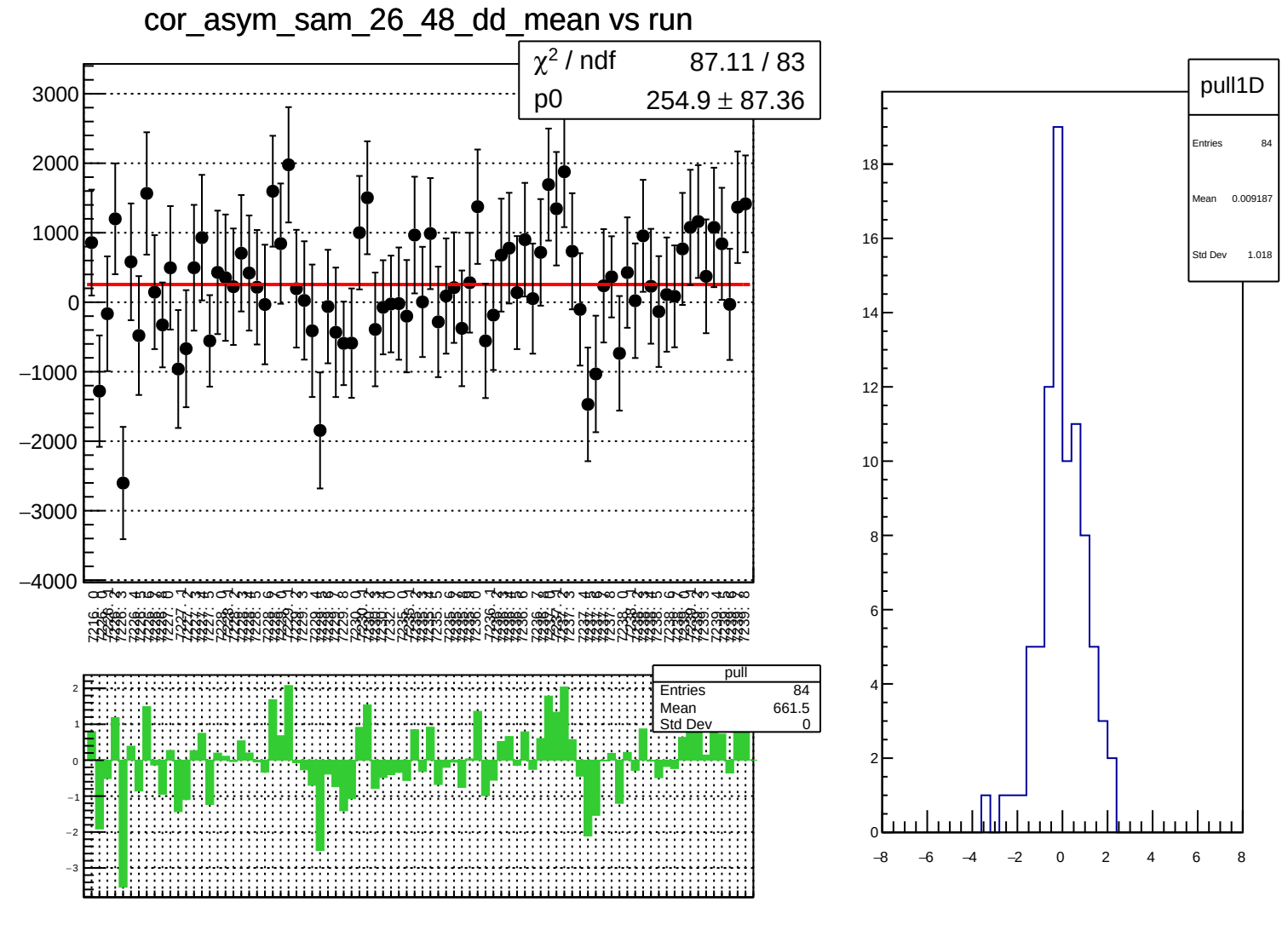

pull1D
Entries 84
Mean 0.009188
Std Dev 1.018

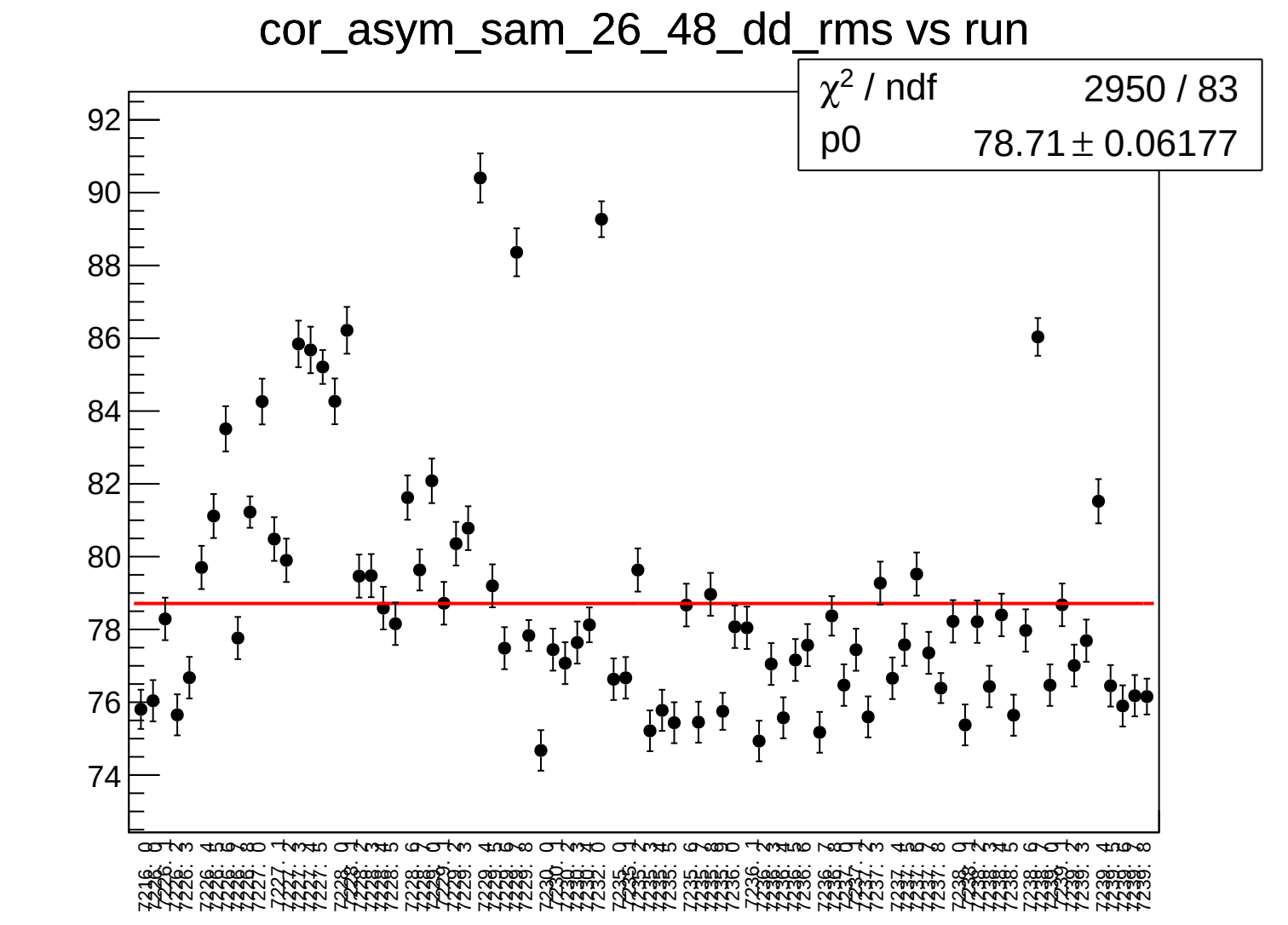

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 2950 / 83
p0 78.71 ± 0.06177
92
90
88
86
84
82
80
78
76
74

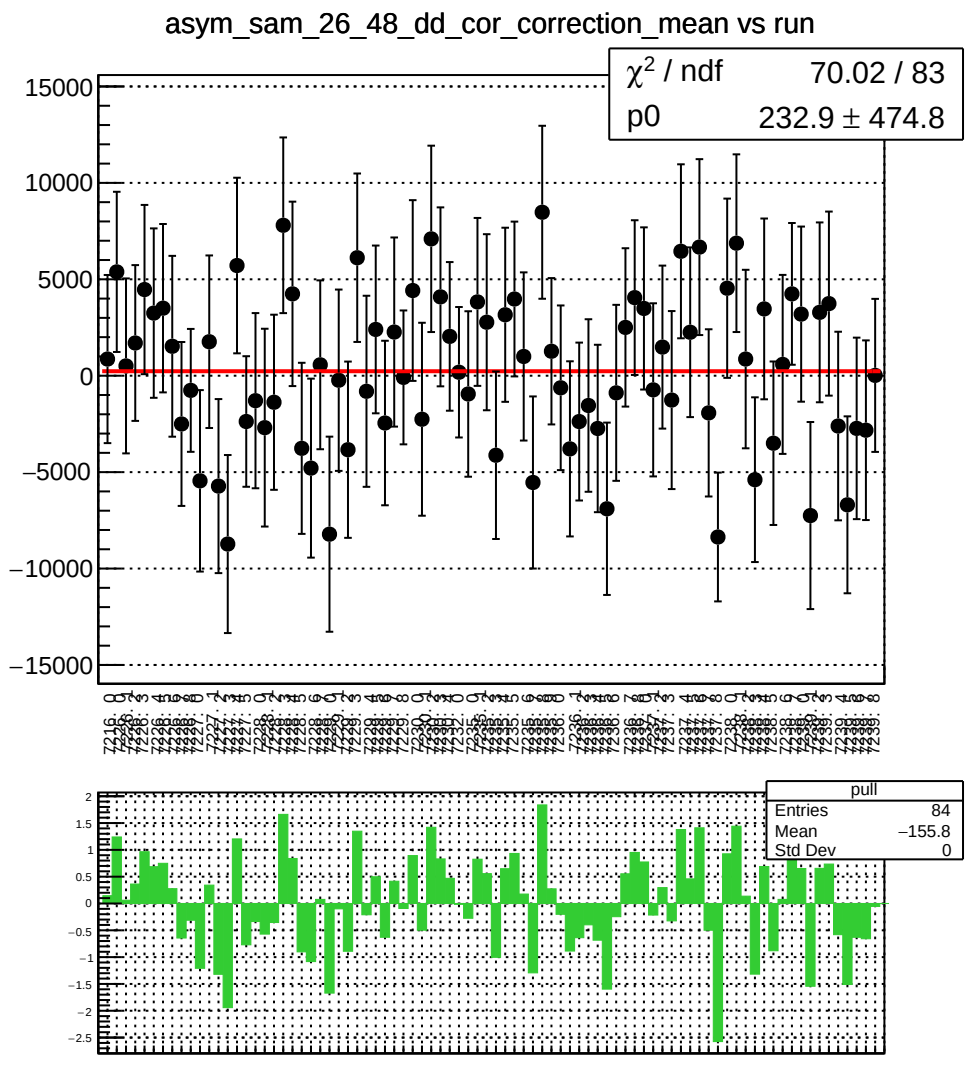

asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 70.02 / 83
p0 232.8 ± 474.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −155.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

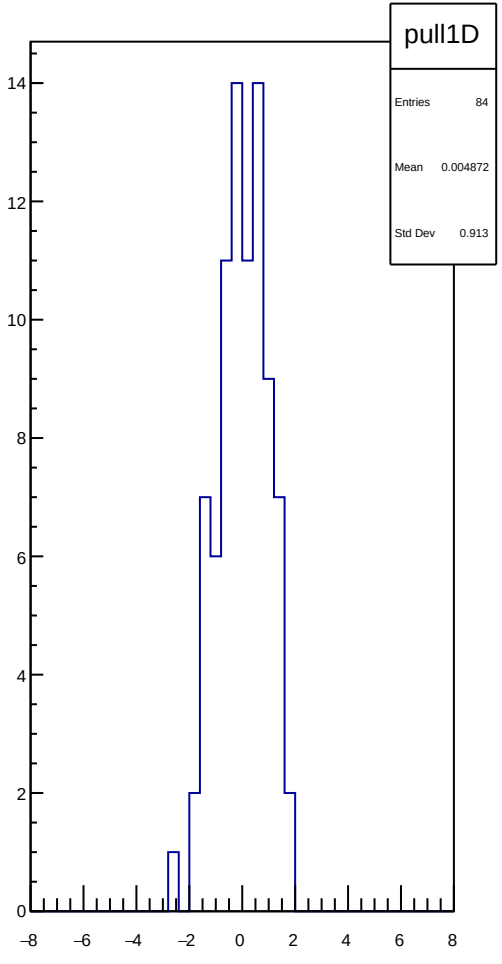

pull1D
Entries 84
Mean 0.004872
Std Dev 0.913
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

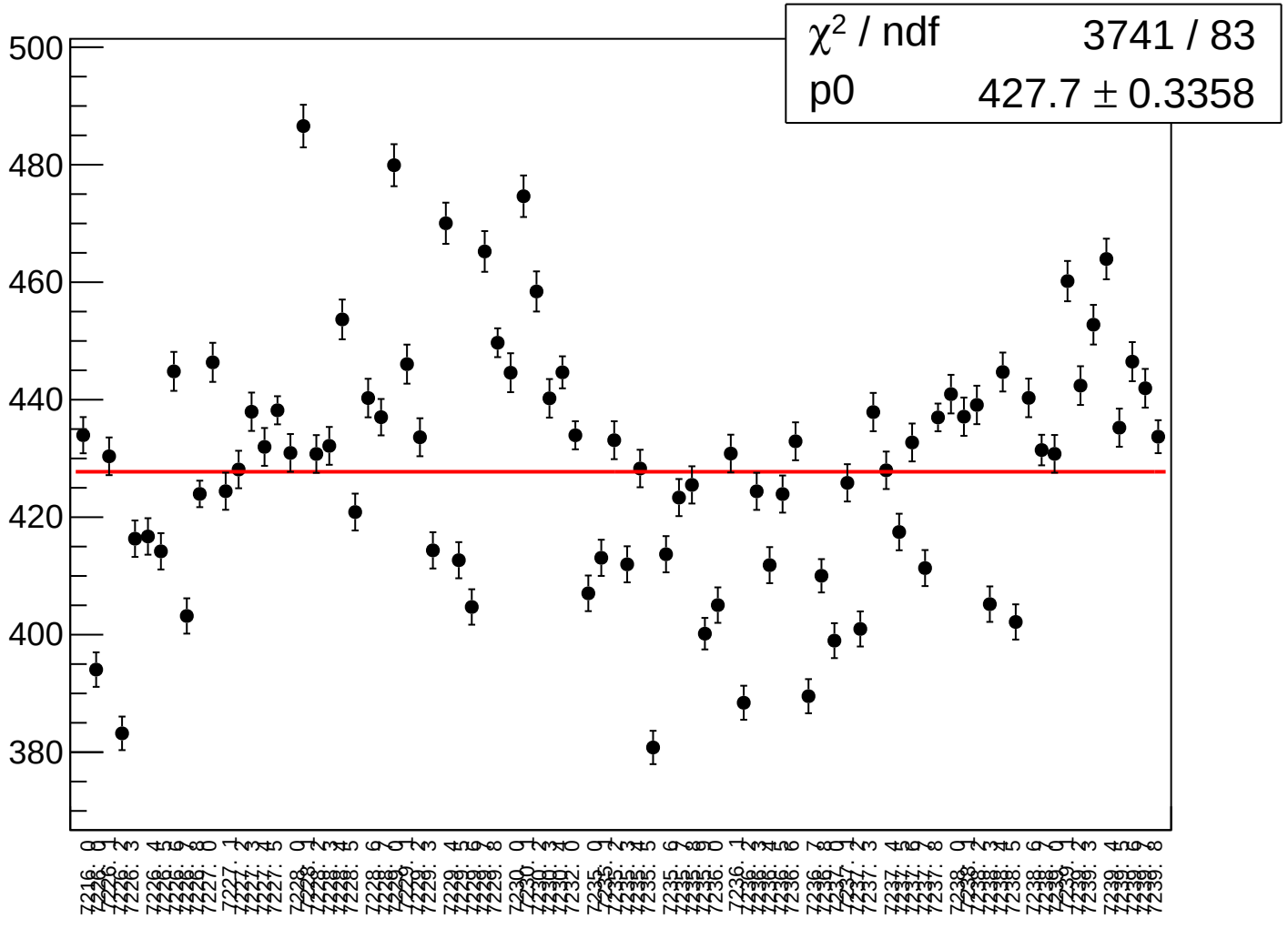

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 3741 / 83
p0 427.7 ± 0.3358
500
480
460
440
420
400
380

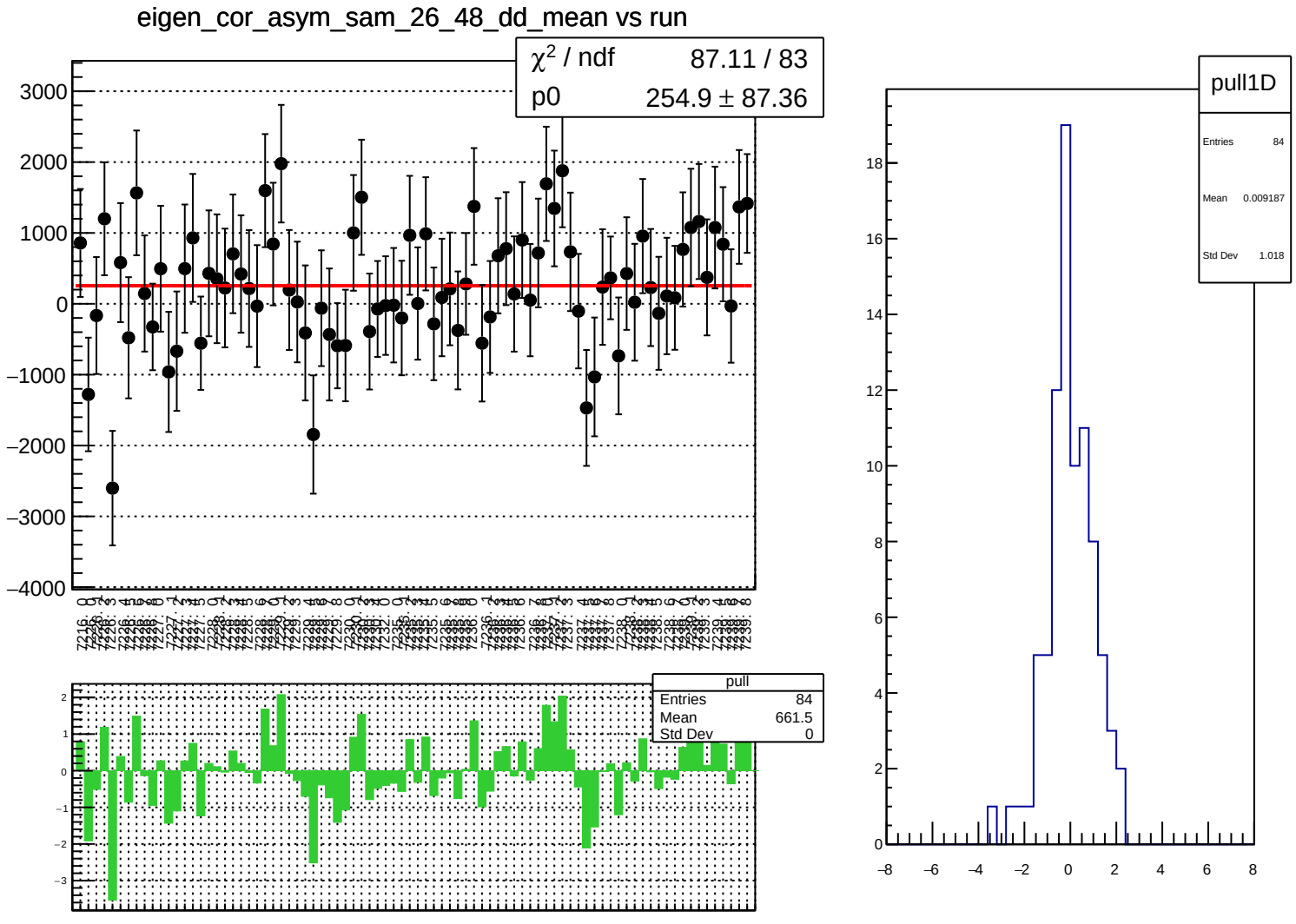

cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 87.11 / 83
p0 254.9 ± 87.36
pull
Entries 84
Mean 661.5
Std Dev 0
pull1D
Entries 84
Mean 0.009187
Std Dev 1.018

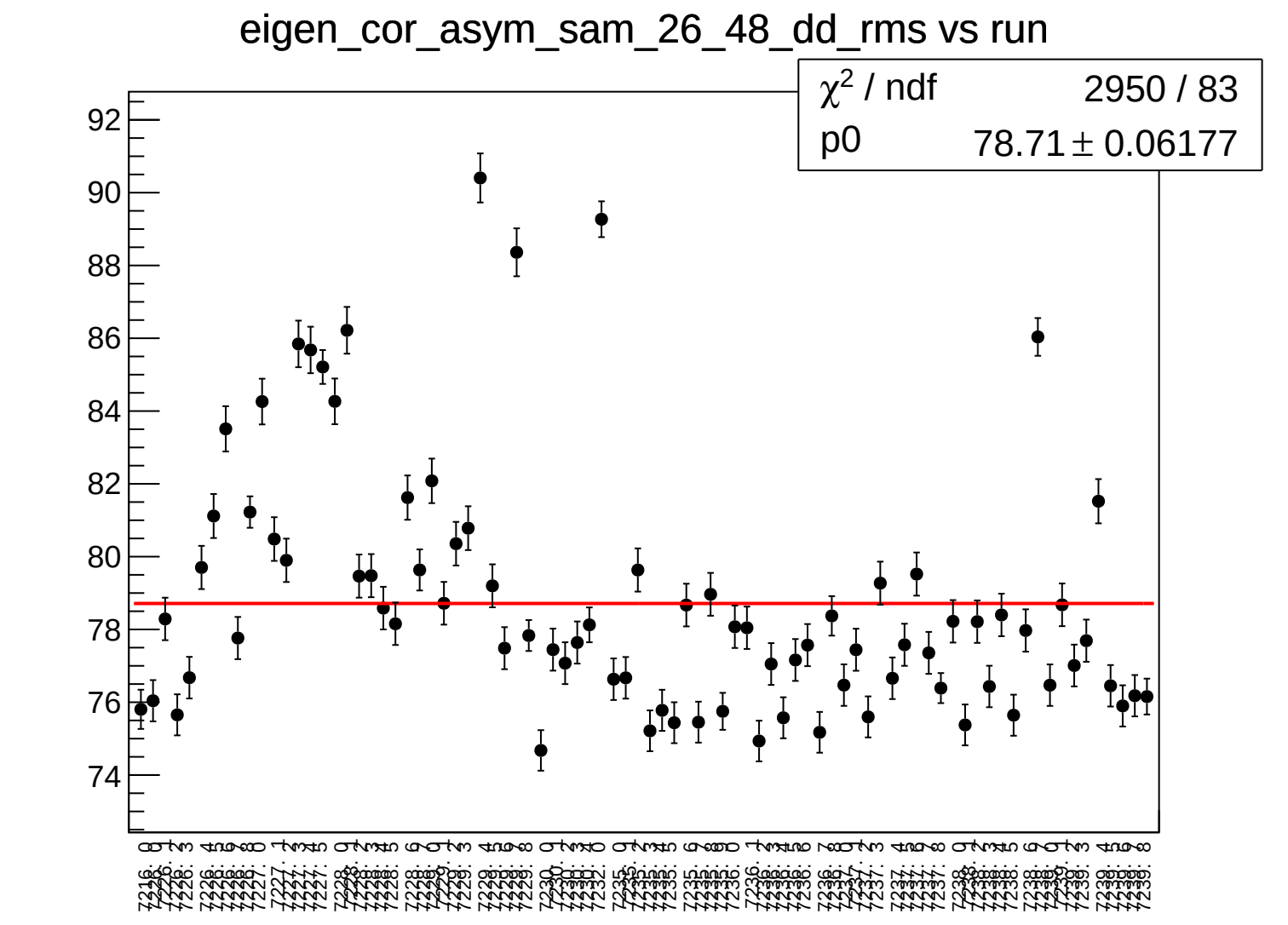

cor_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 2950 / 83
p0 78.71 ± 0.06177
92
90
88
86
84
82
80
78
76
74

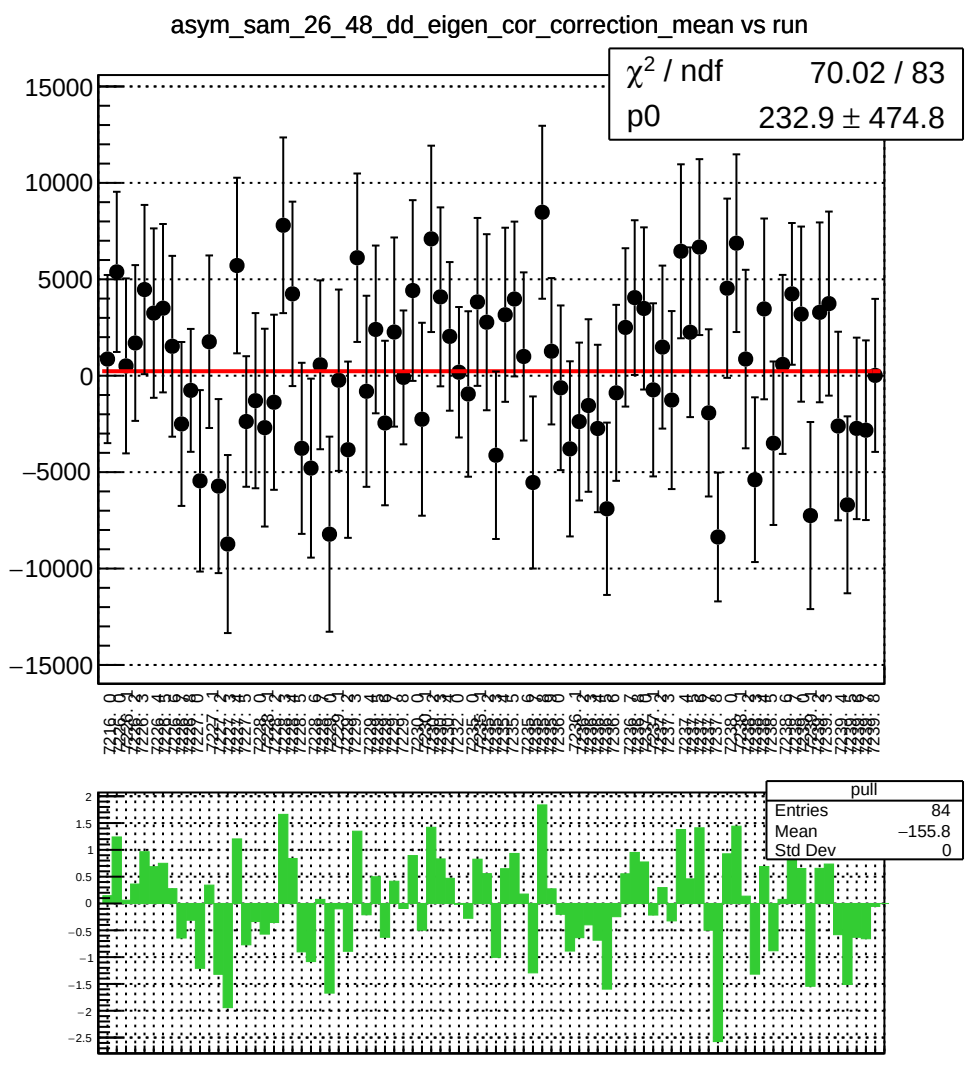

asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 70.02 / 83
p0 232.9 ± 474.8
pull
Entries 84
Mean −155.8
Std Dev 0

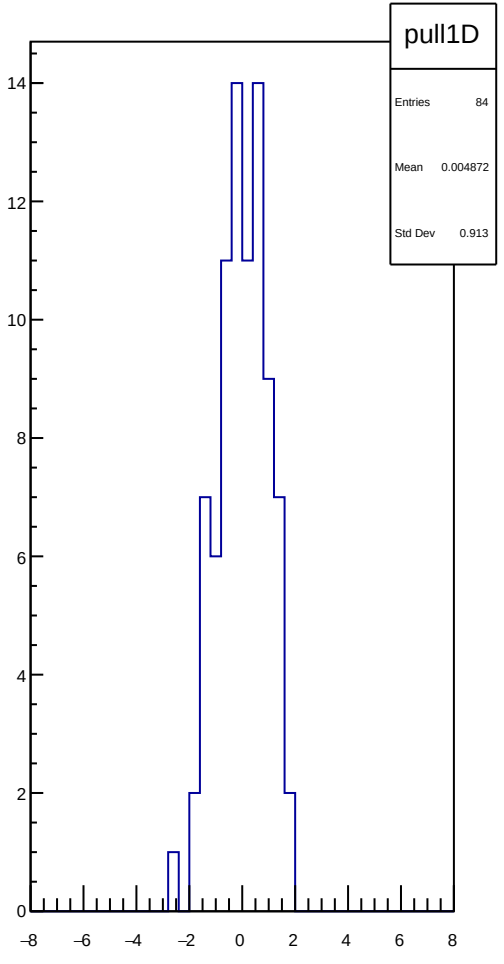

pull1D
Entries 84
Mean 0.004872
Std Dev 0.913

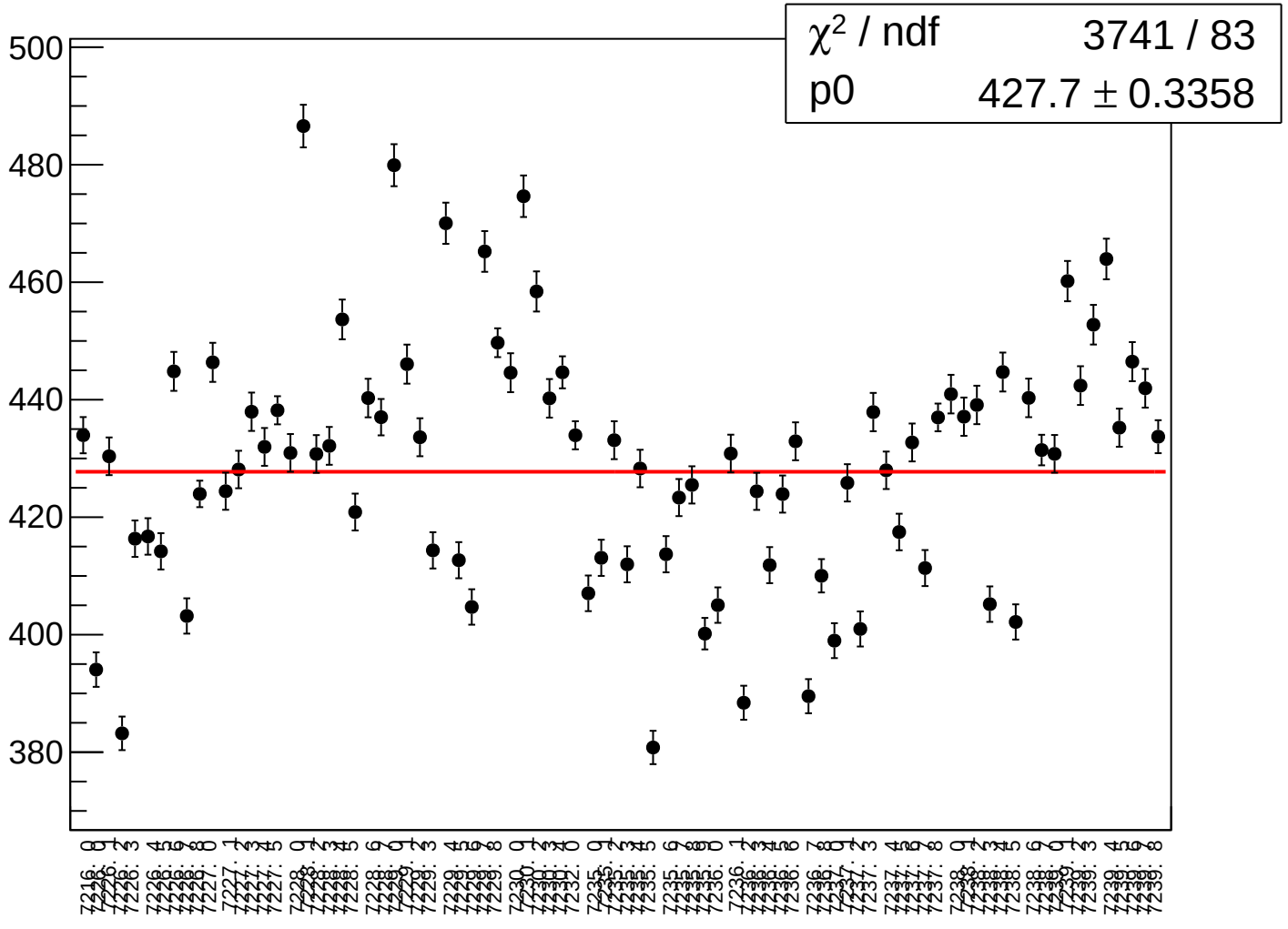

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 3741 / 83
p0 427.7 ± 0.3358
500
480
460
440
420
400
380

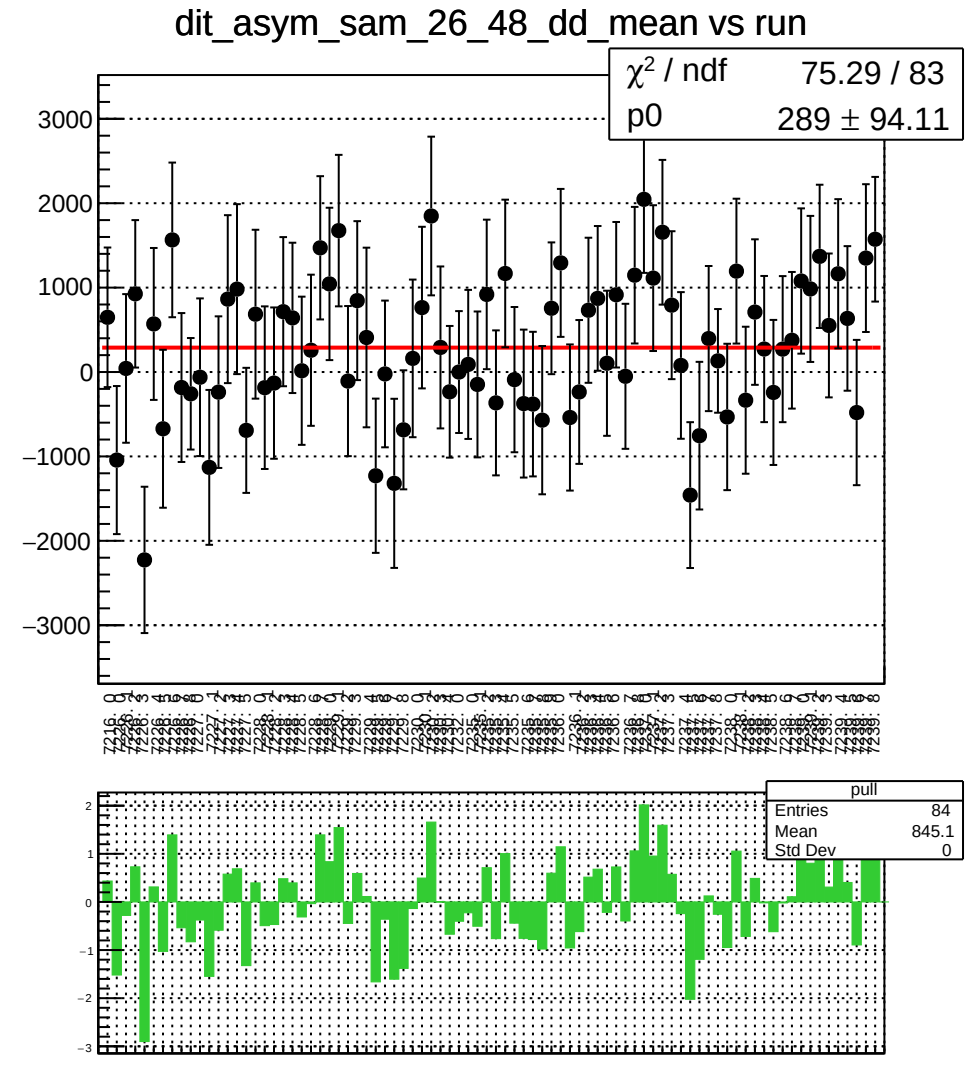

eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 87.11 / 83
p0 254.9 ± 87.36
pull
Entries 84
Mean 661.5
Std Dev 0
pull1D
Entries 84
Mean 0.009187
Std Dev 1.018

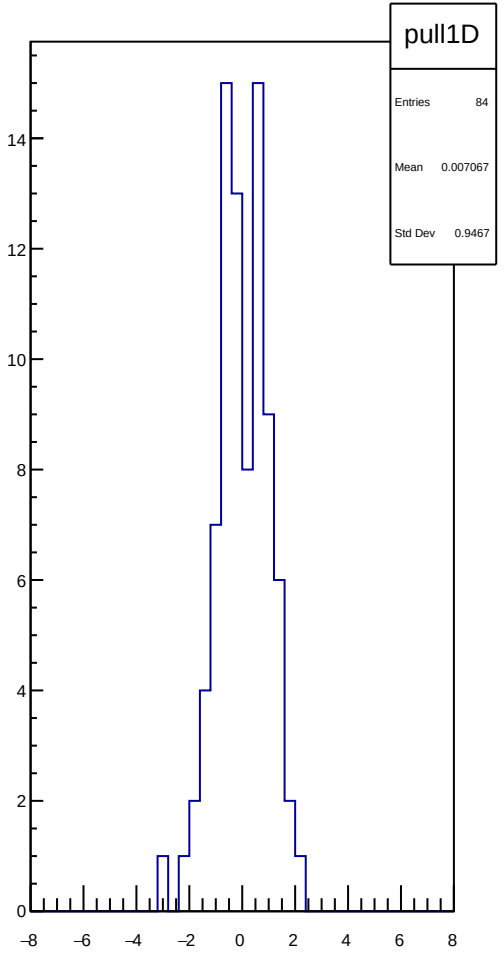

eigen_cor_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 2950 / 83
p0 78.71 ± 0.06177
92
90
88
86
84
82
80
78
76
74

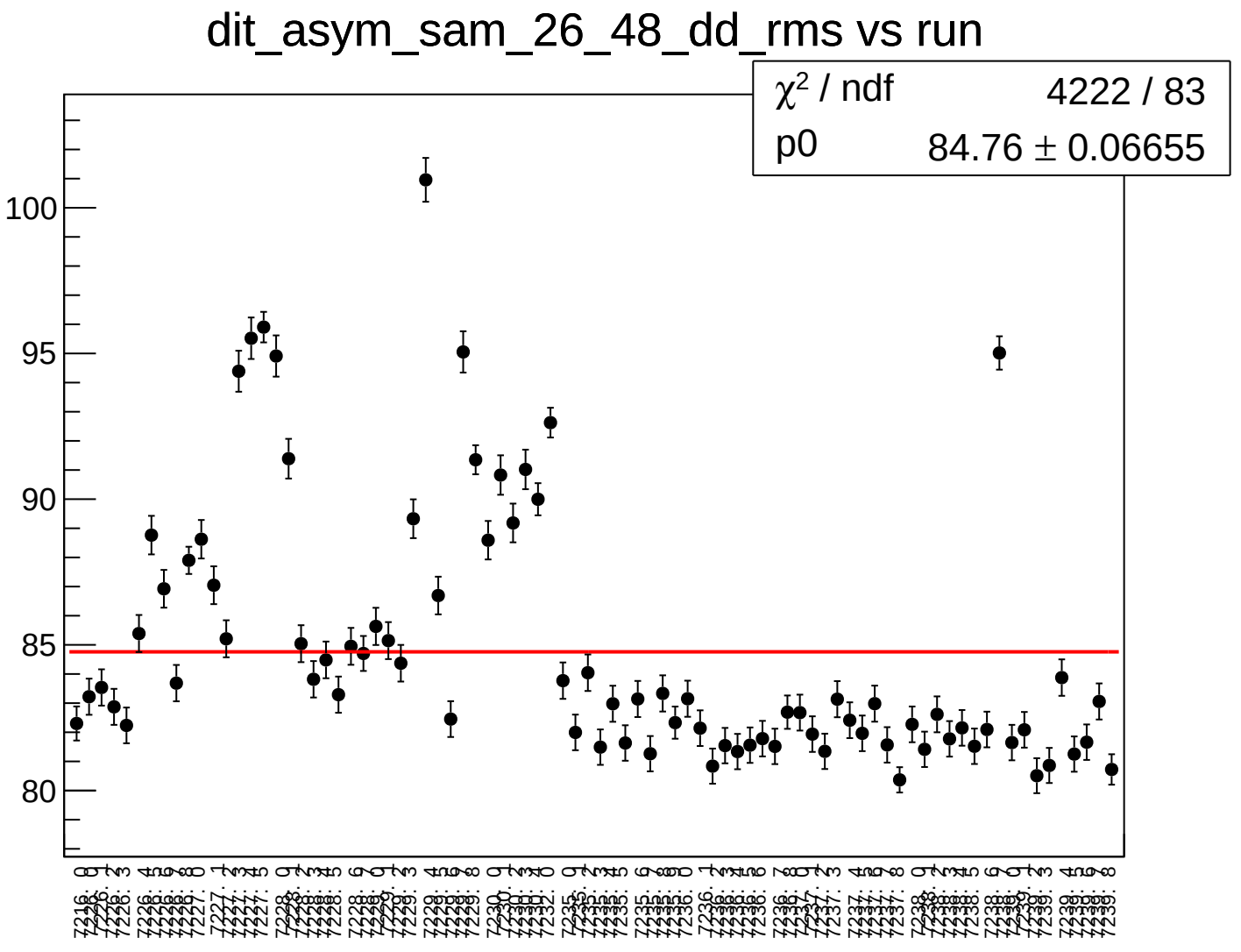

asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 70.02 / 83
p0 232.9 ± 474.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −155.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

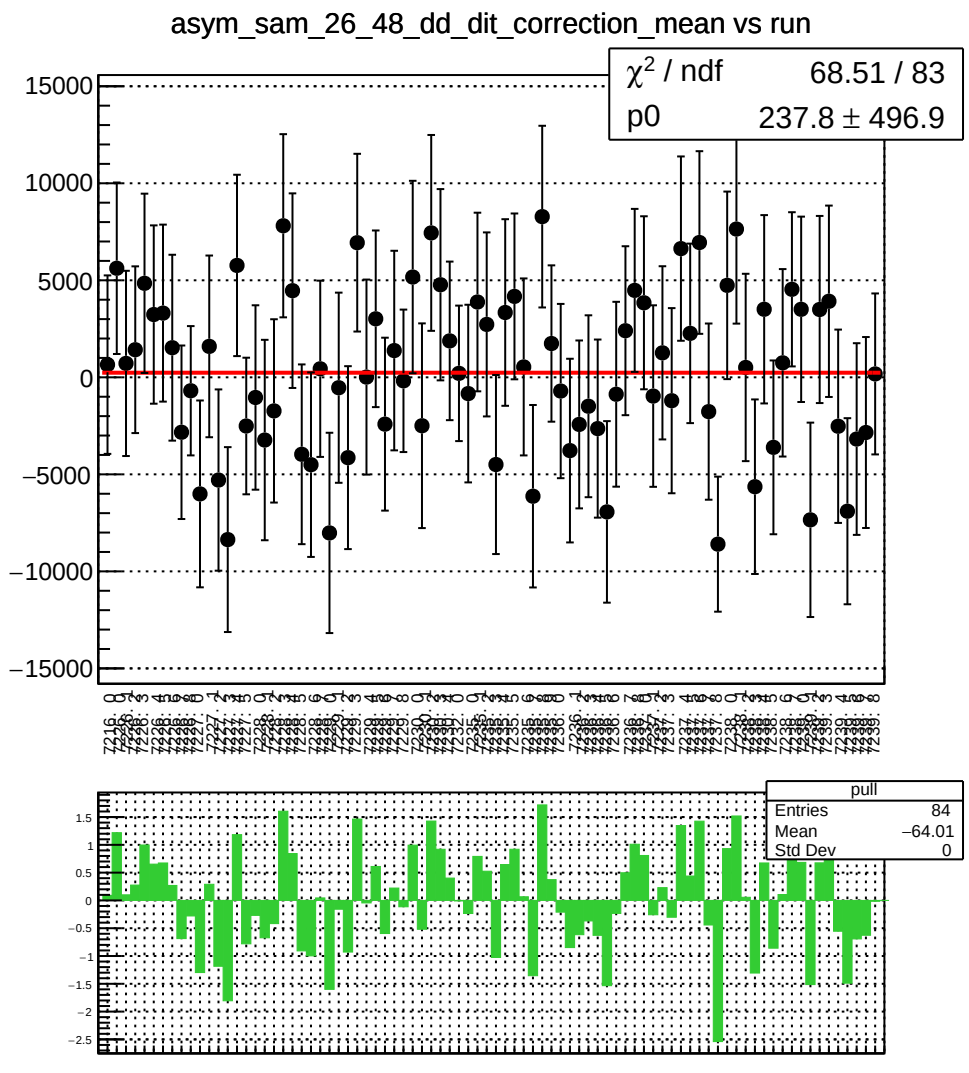

pull1D
Entries 84
Mean 0.004872
Std Dev 0.913
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

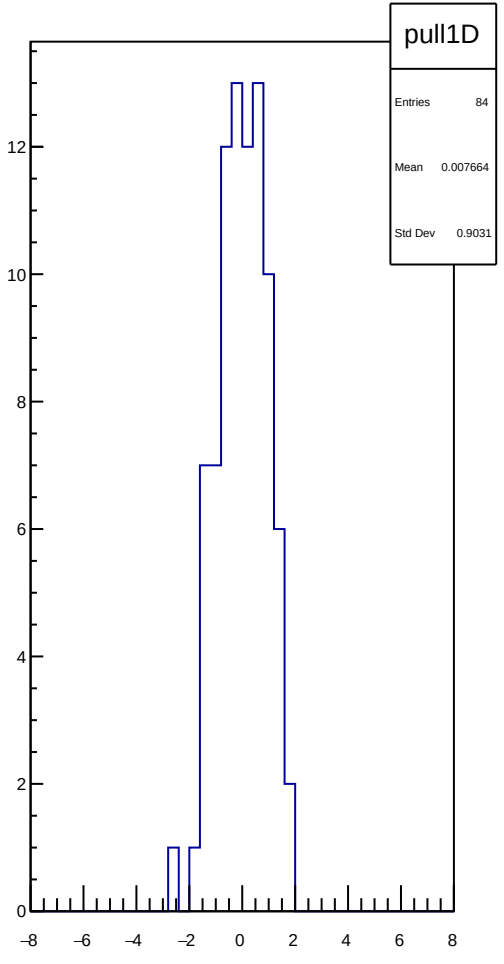

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 3741 / 83
p0 427.7 ± 0.3358
500
480
460
440
420
400
380

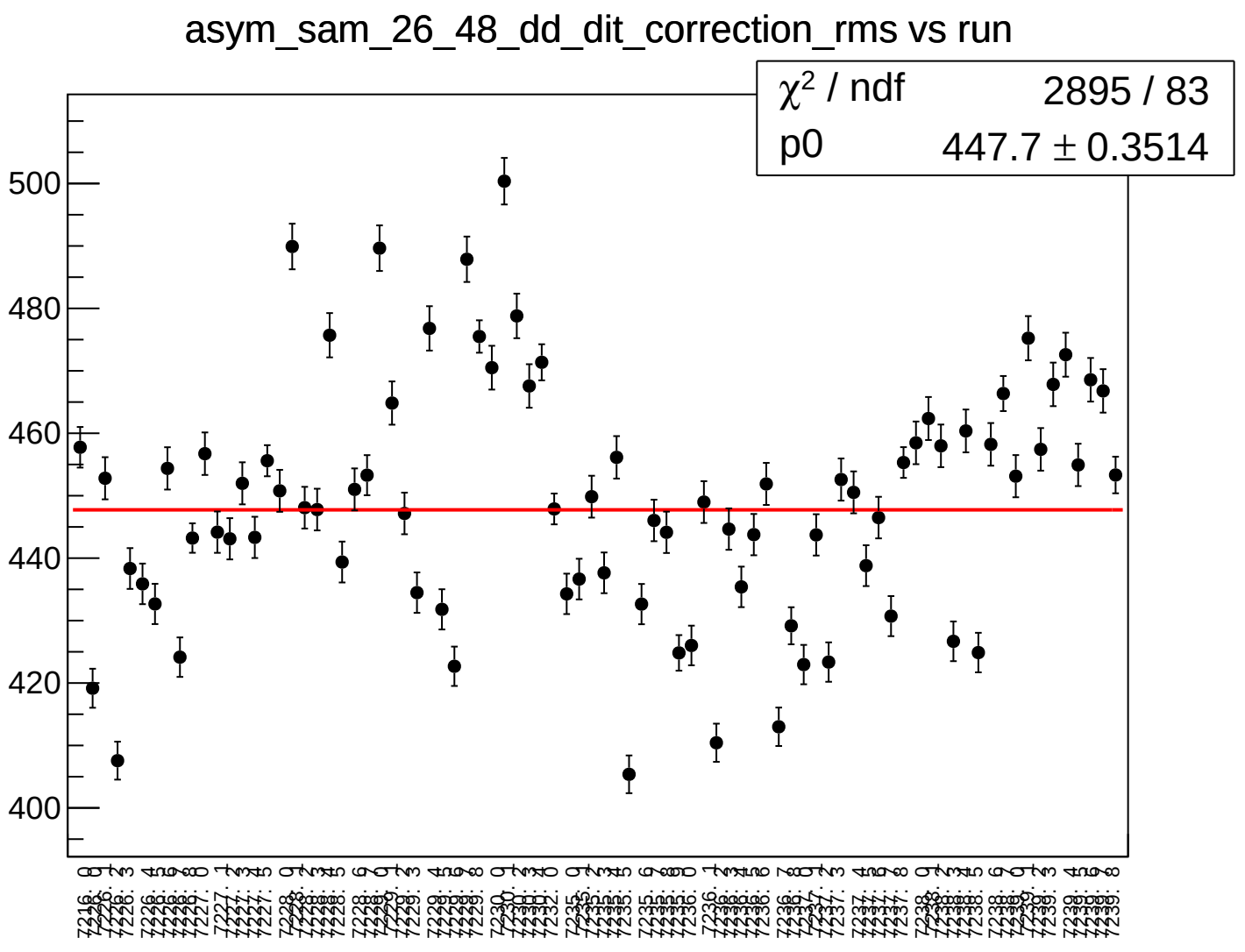

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 75.29 / 83
p0 289 ± 94.11
pull
Entries 84
Mean 845.1
Std Dev 0

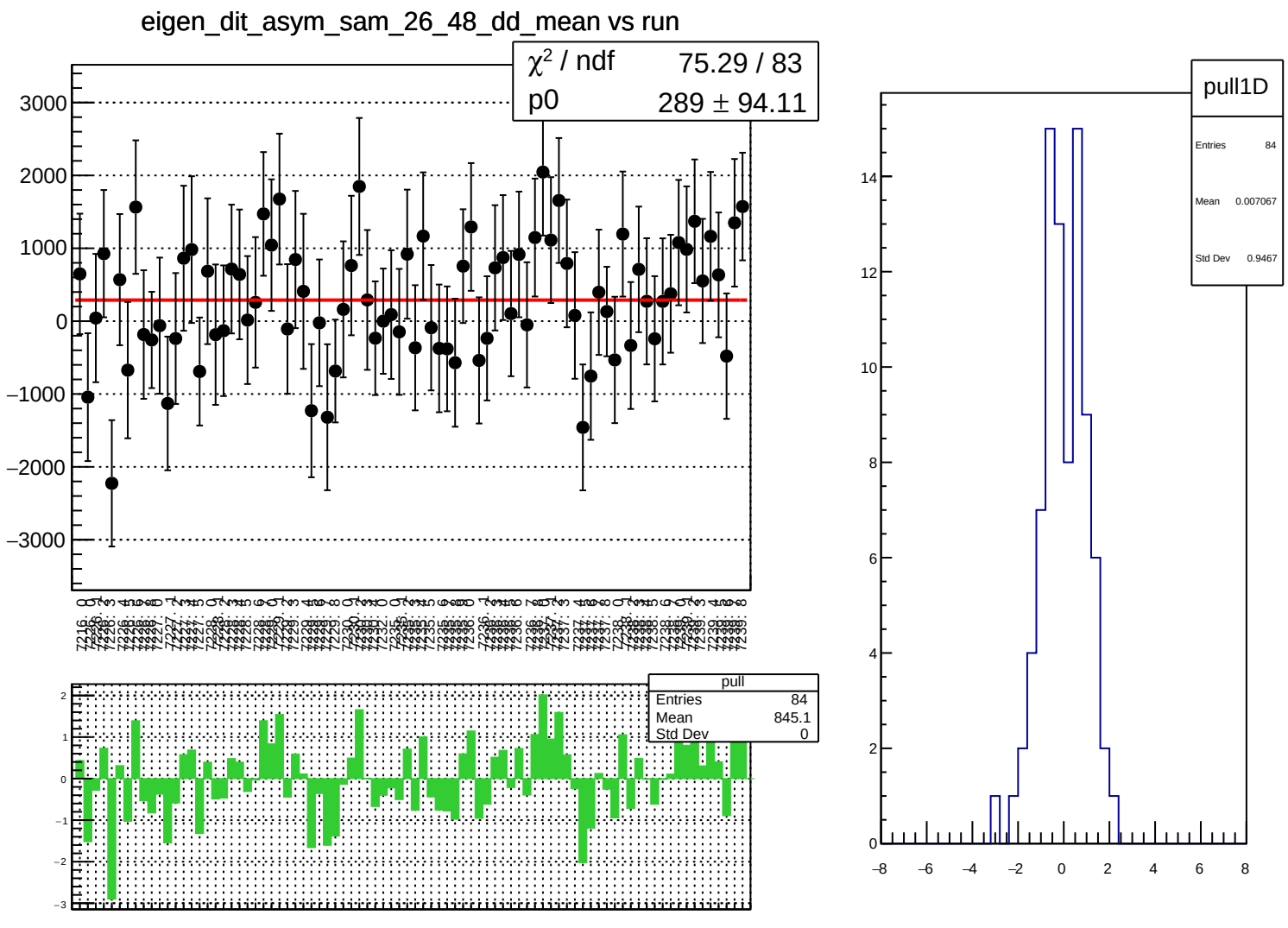

pull1D
Entries 84
Mean 0.007067
Std Dev 0.9467

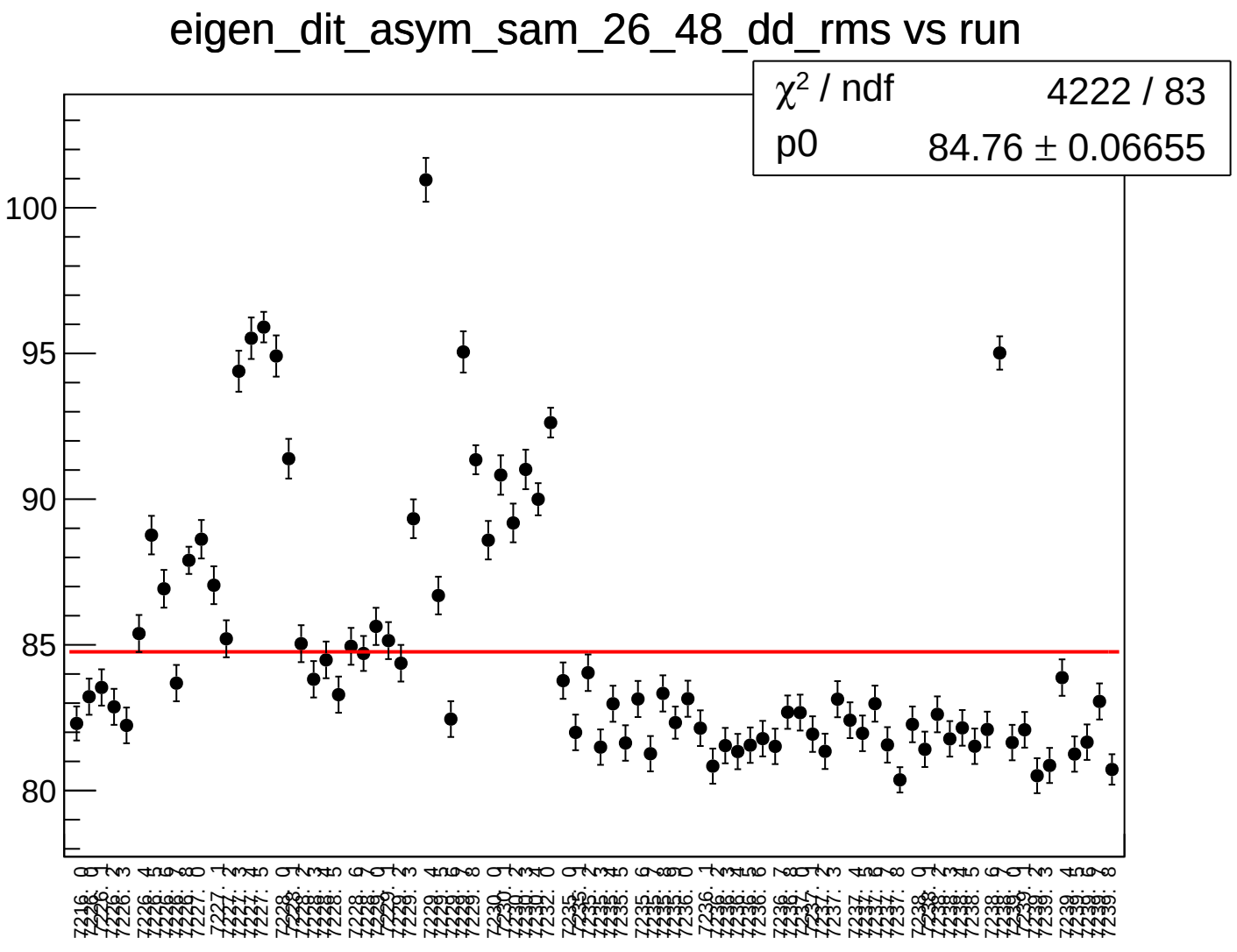

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 4222 / 83
p0 84.76 ± 0.06655
100
95
90
85
80

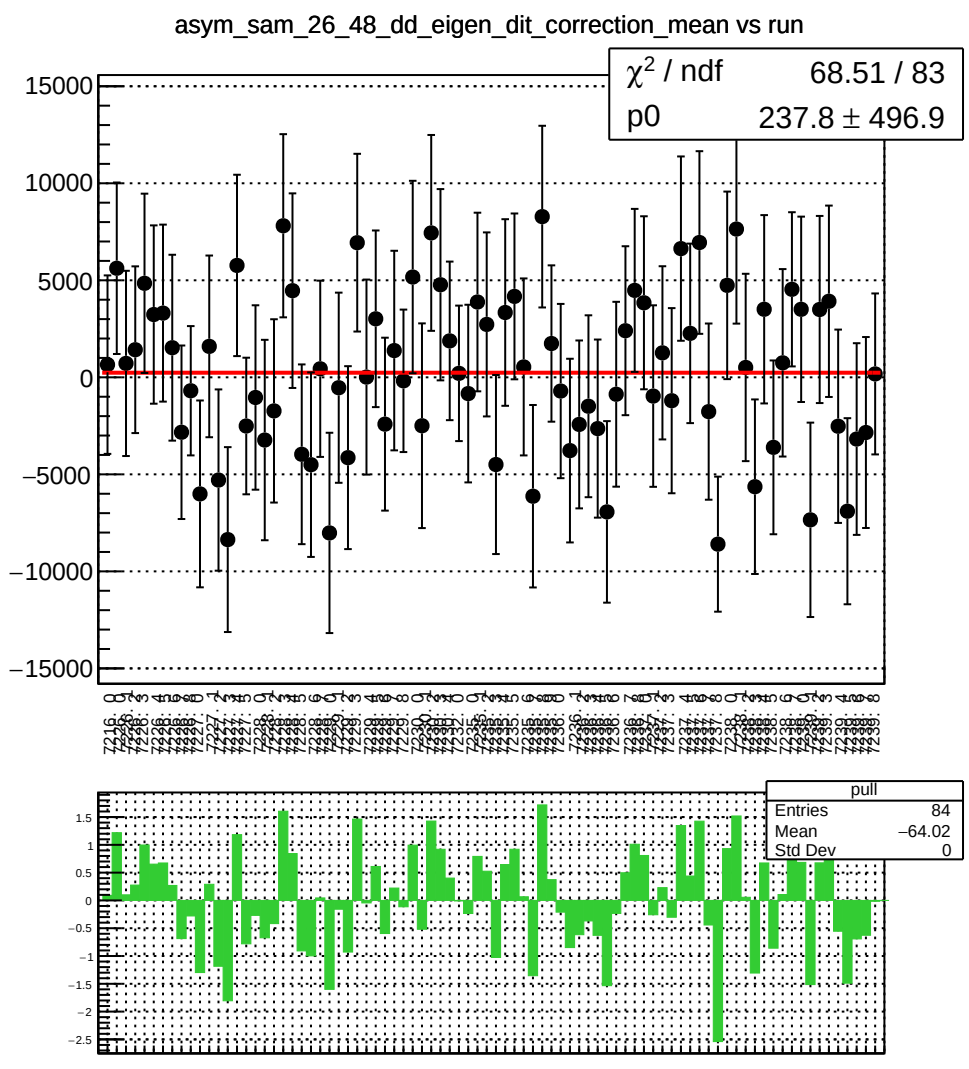

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 68.51 / 83
p0 237.8 ± 496.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −64.01
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

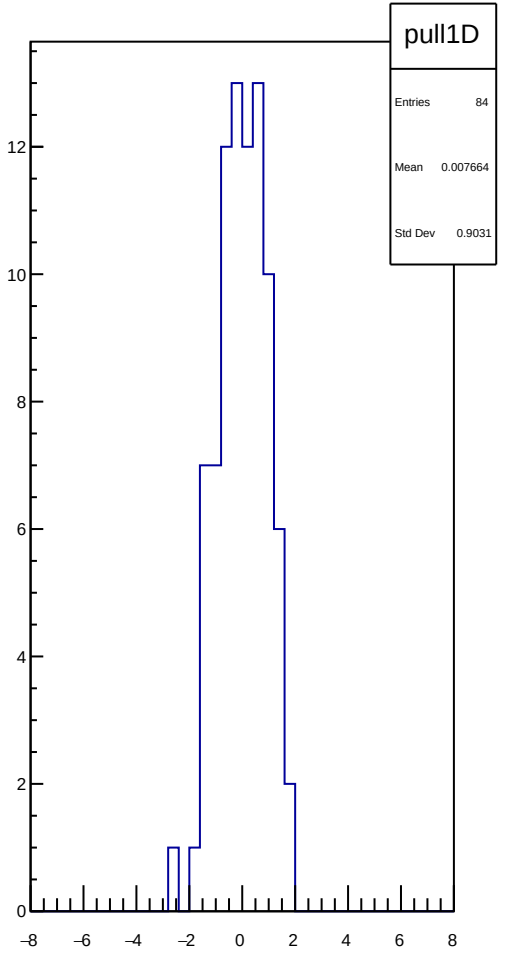

pull1D
Entries 84
Mean 0.007664
Std Dev 0.9031
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

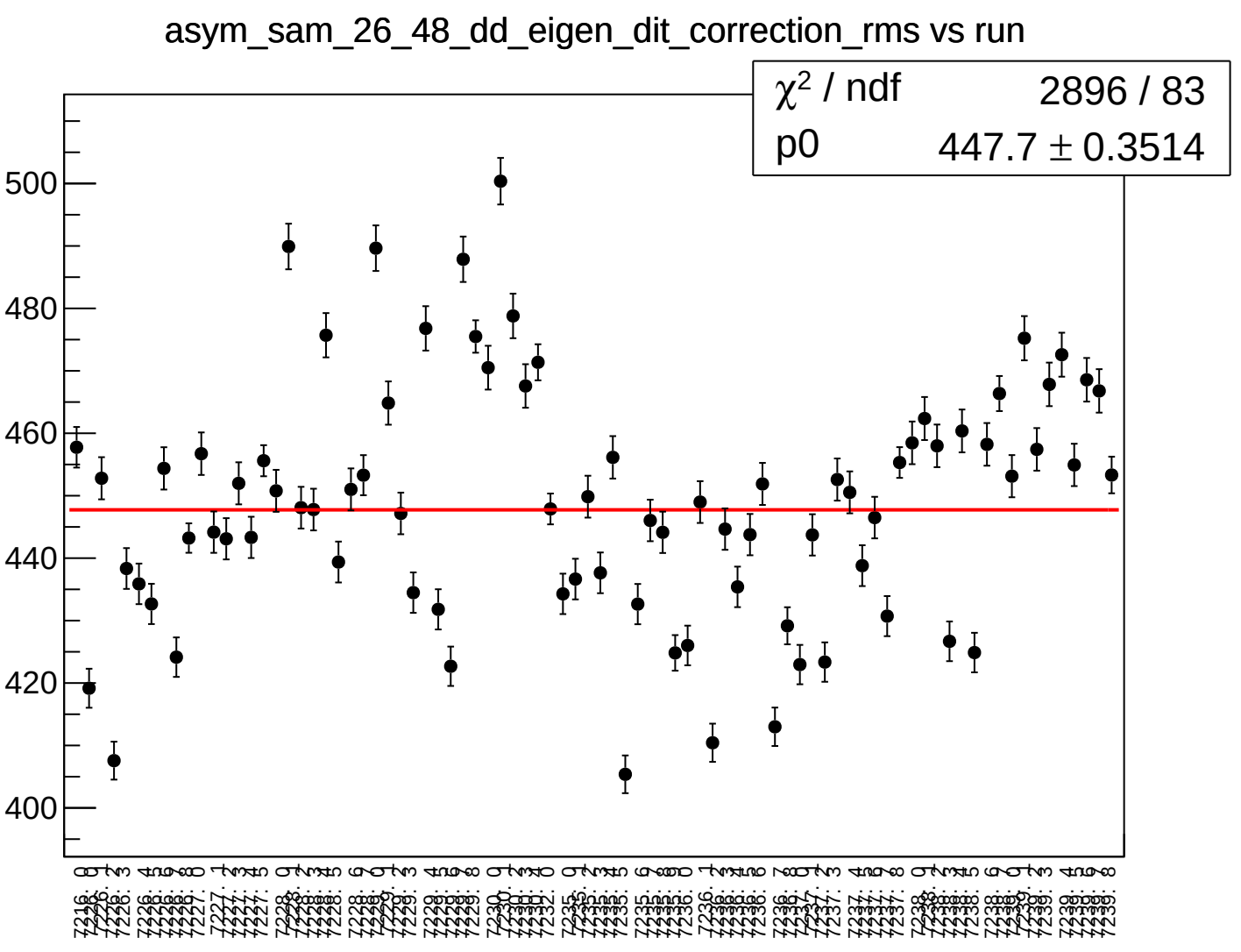

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 2895 / 83
p0 447.7 ± 0.3514
500
480
460
440
420
400

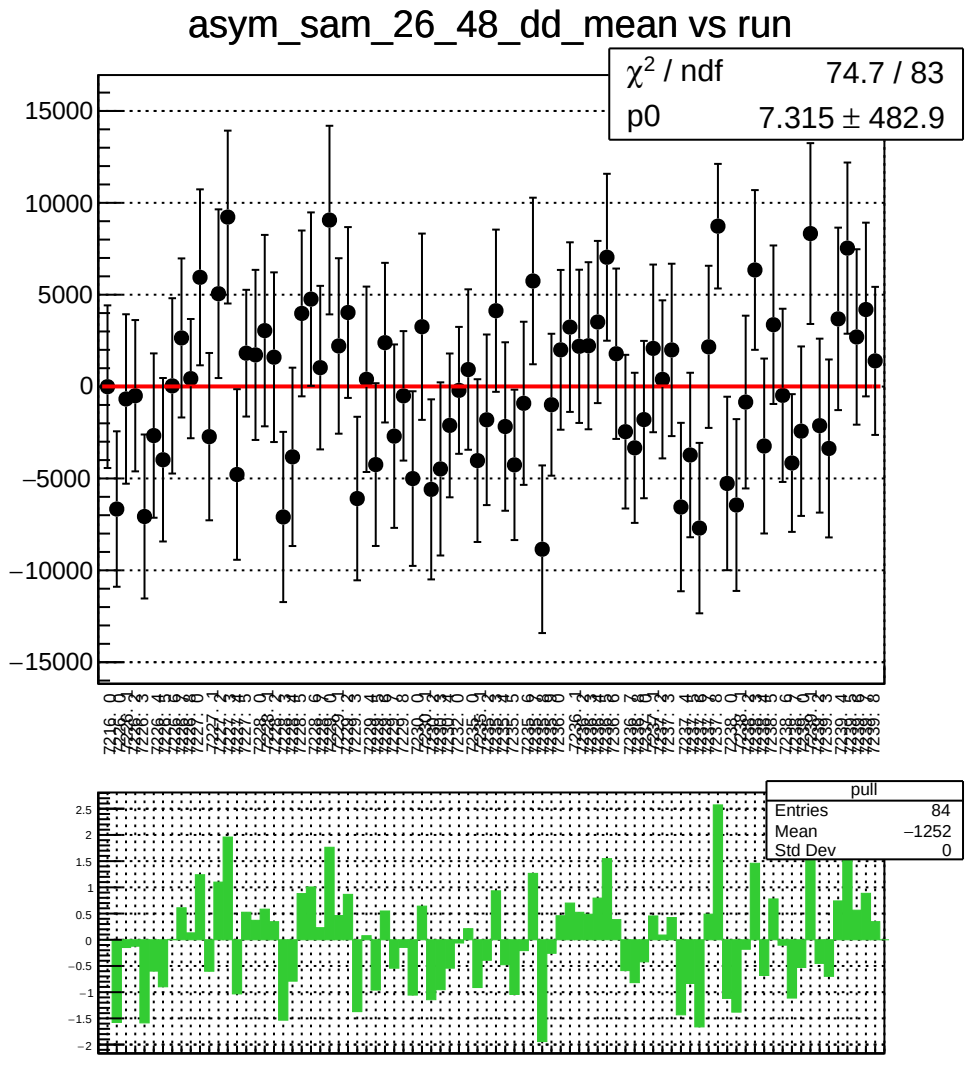

eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 75.29 / 83
p0 289 ± 94.11
pull
Entries 84
Mean 845.1
Std Dev 0
pull1D
Entries 84
Mean 0.007067
Std Dev 0.9467

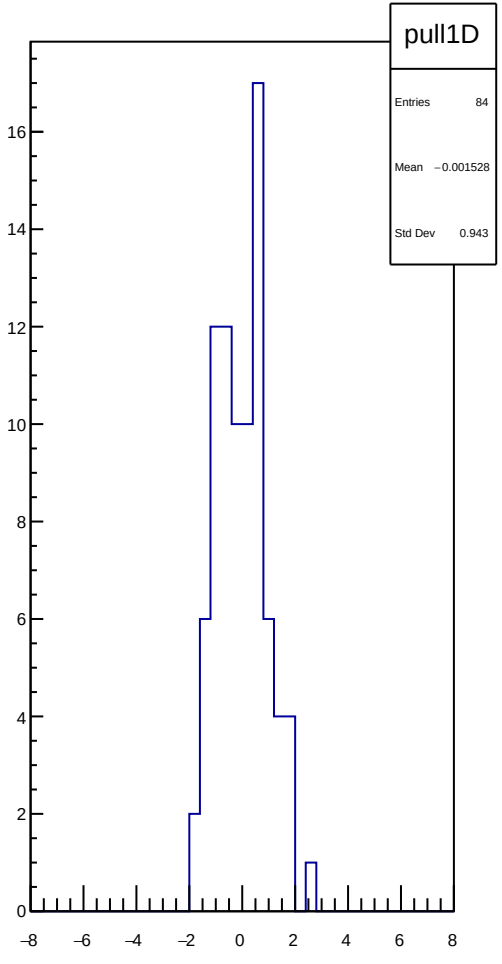

eigen_dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 4222 / 83
p0 84.76 ± 0.06655
100
95
90
85
80

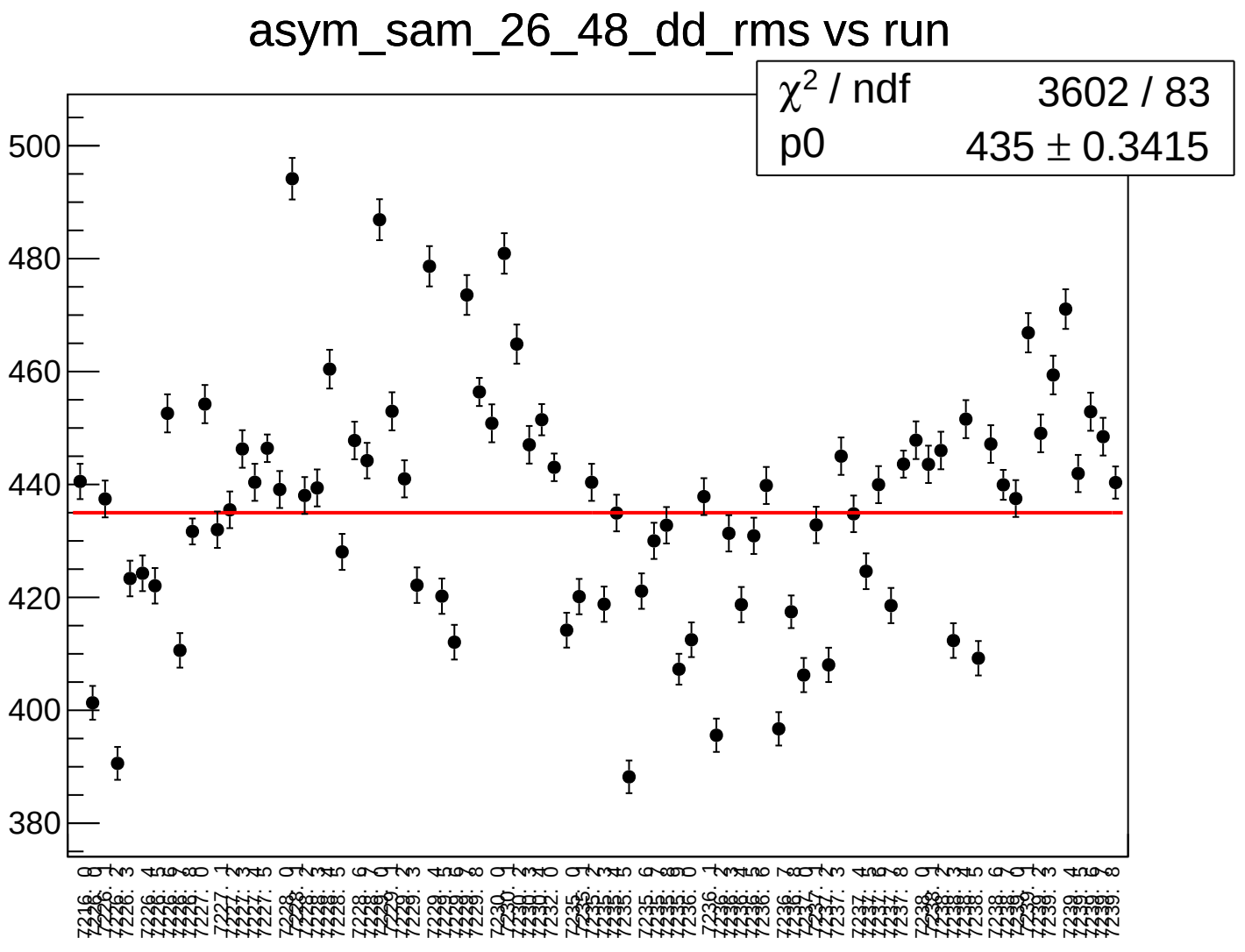

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 68.51 / 83
p0 237.8 ± 496.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −64.02
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

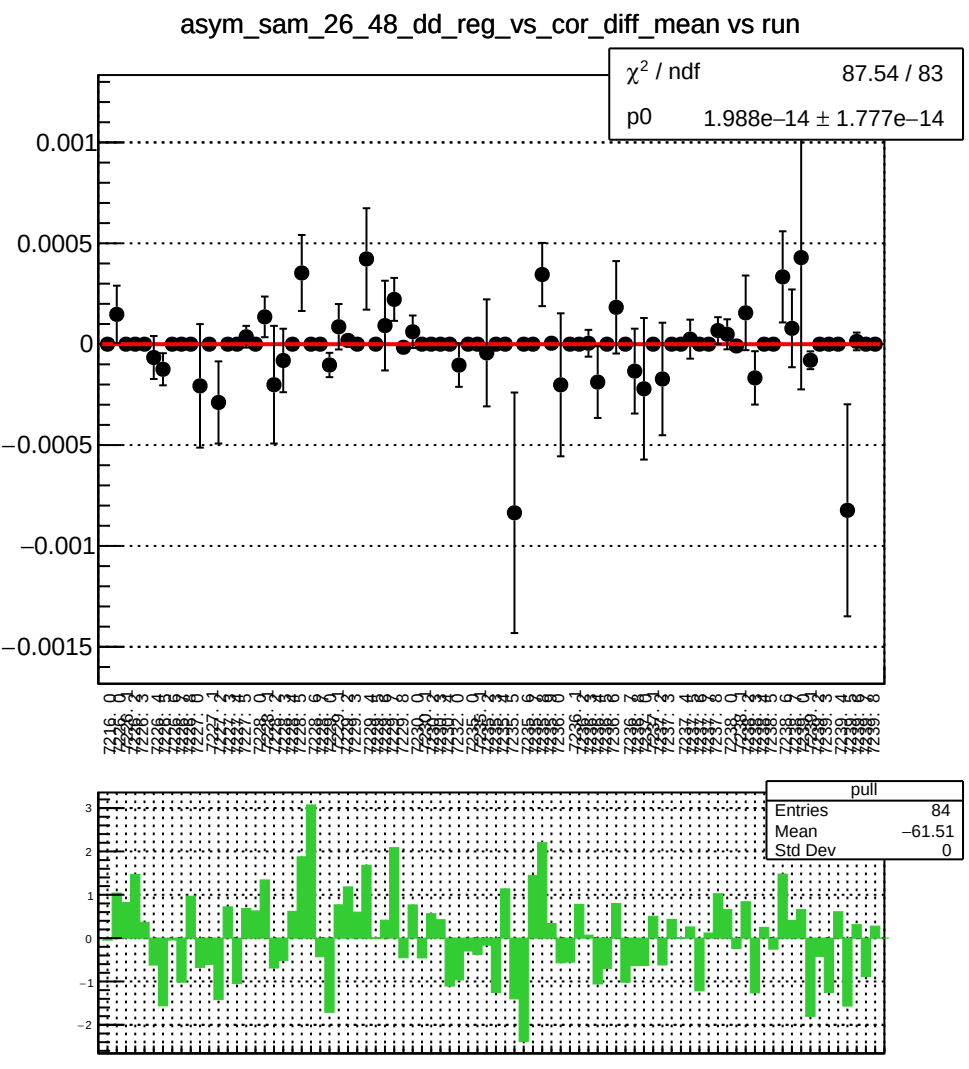

pull1D
Entries 84
Mean 0.007664
Std Dev 0.9031
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

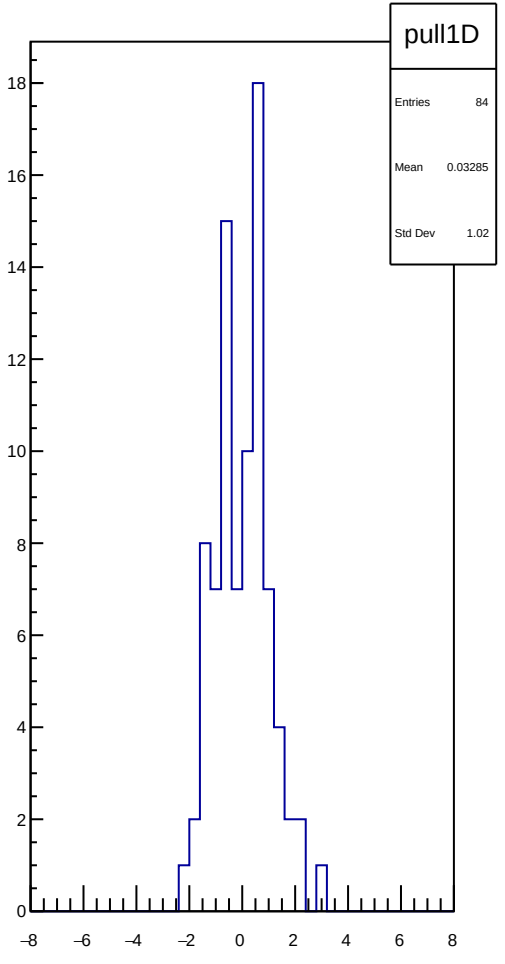

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 2896 / 83
p0 447.7 ± 0.3514
500
480
460
440
420
400

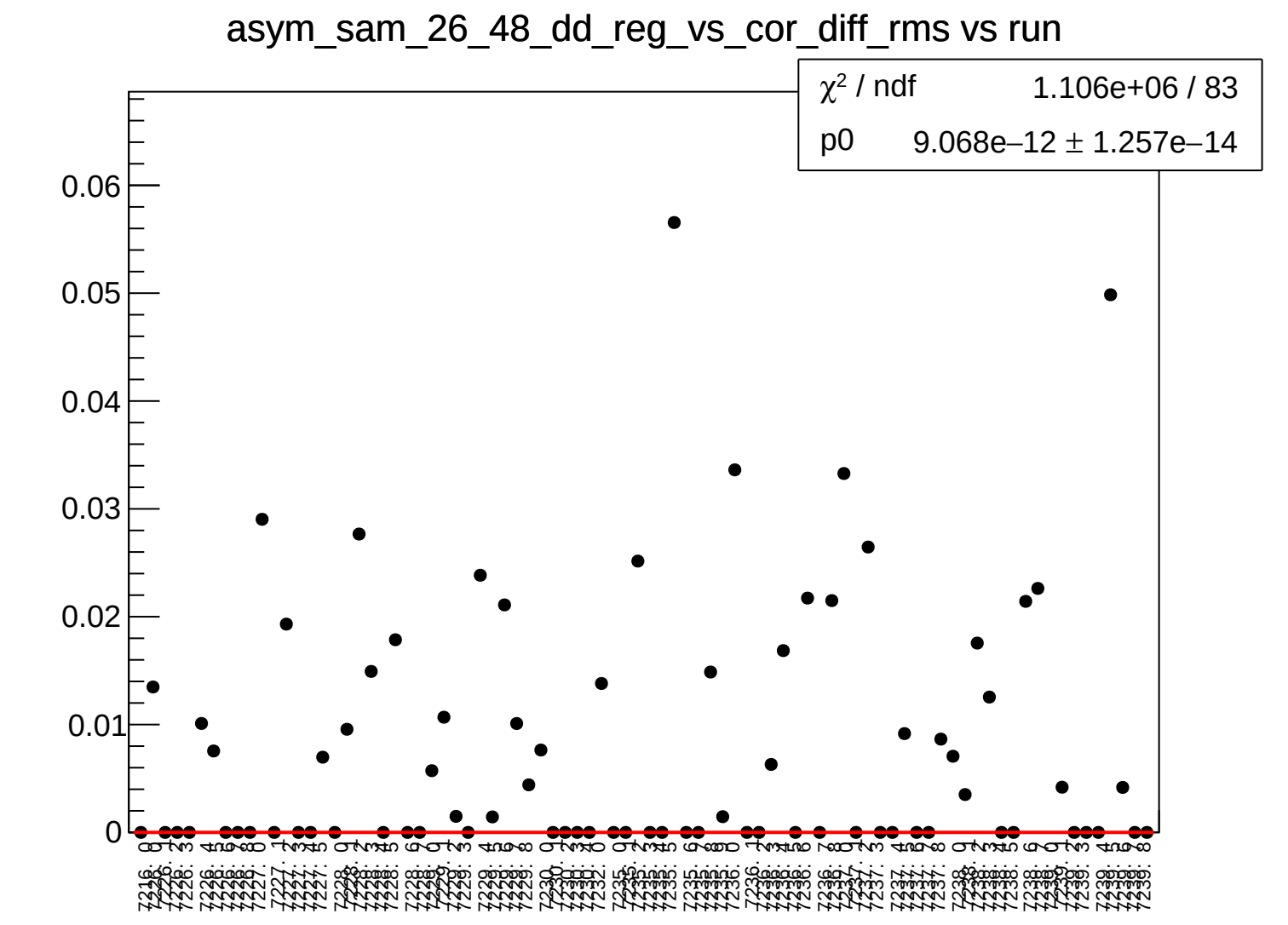

asym_sam_26_48_dd_mean vs run
χ² / ndf 74.7 / 83
p0 7.315 ± 482.9
pull
Entries 84
Mean −1252
Std Dev 0

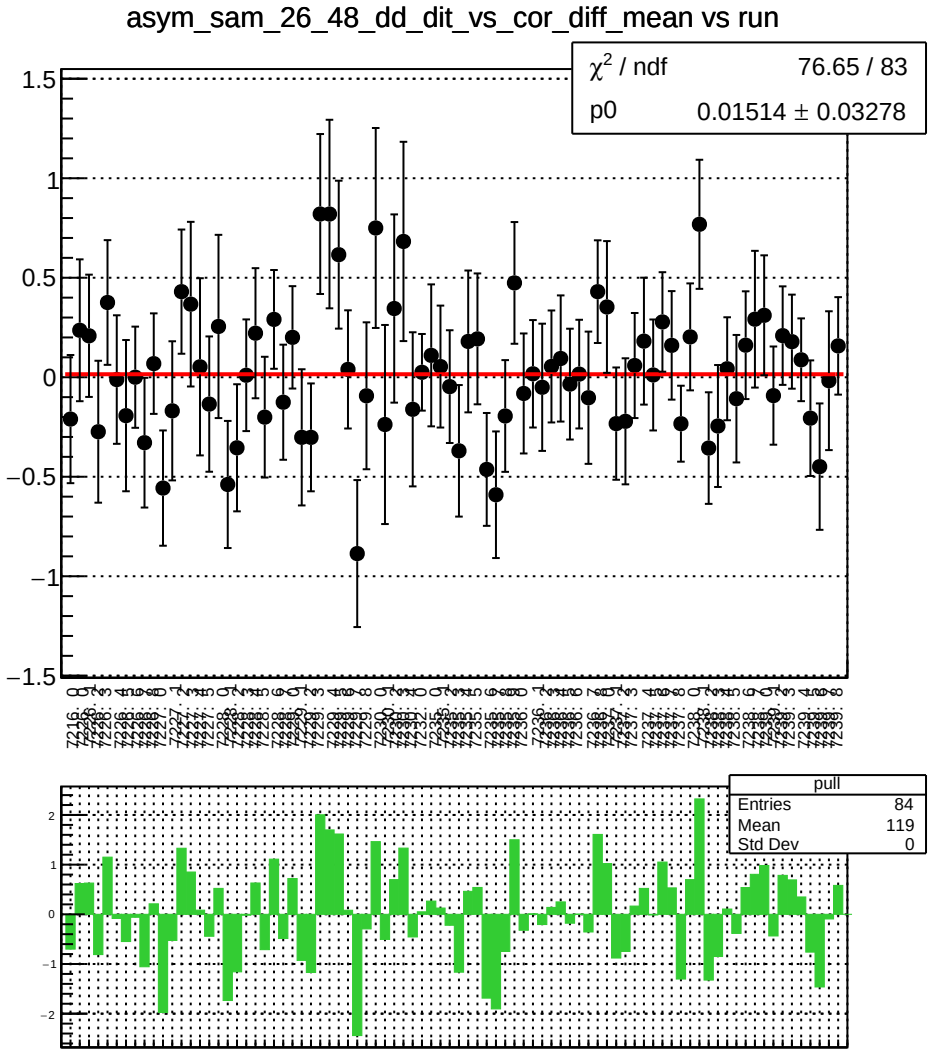

pull1D
Entries 84
Mean −0.001528
Std Dev 0.943

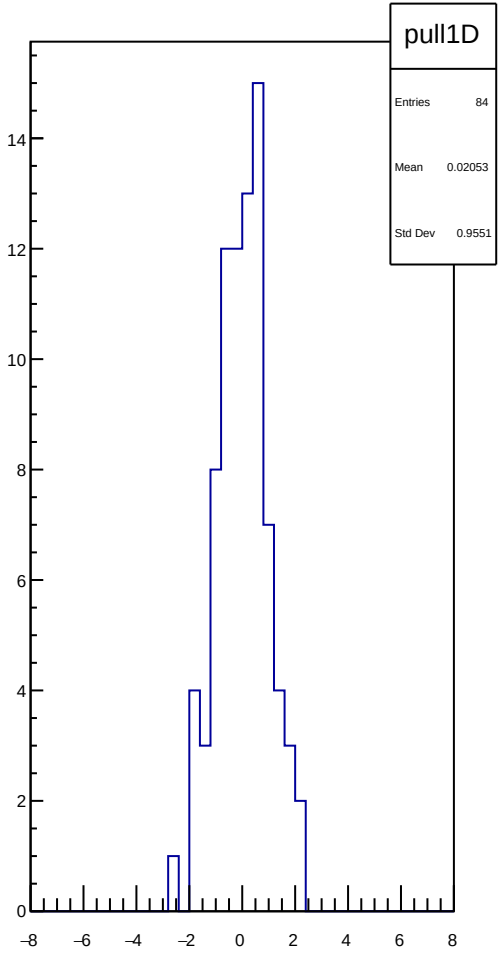

asym_sam_26_48_dd_rms vs run
χ^2 / ndf 3602 / 83
p0 435 ± 0.3415
500
480
460
440
420
400
380

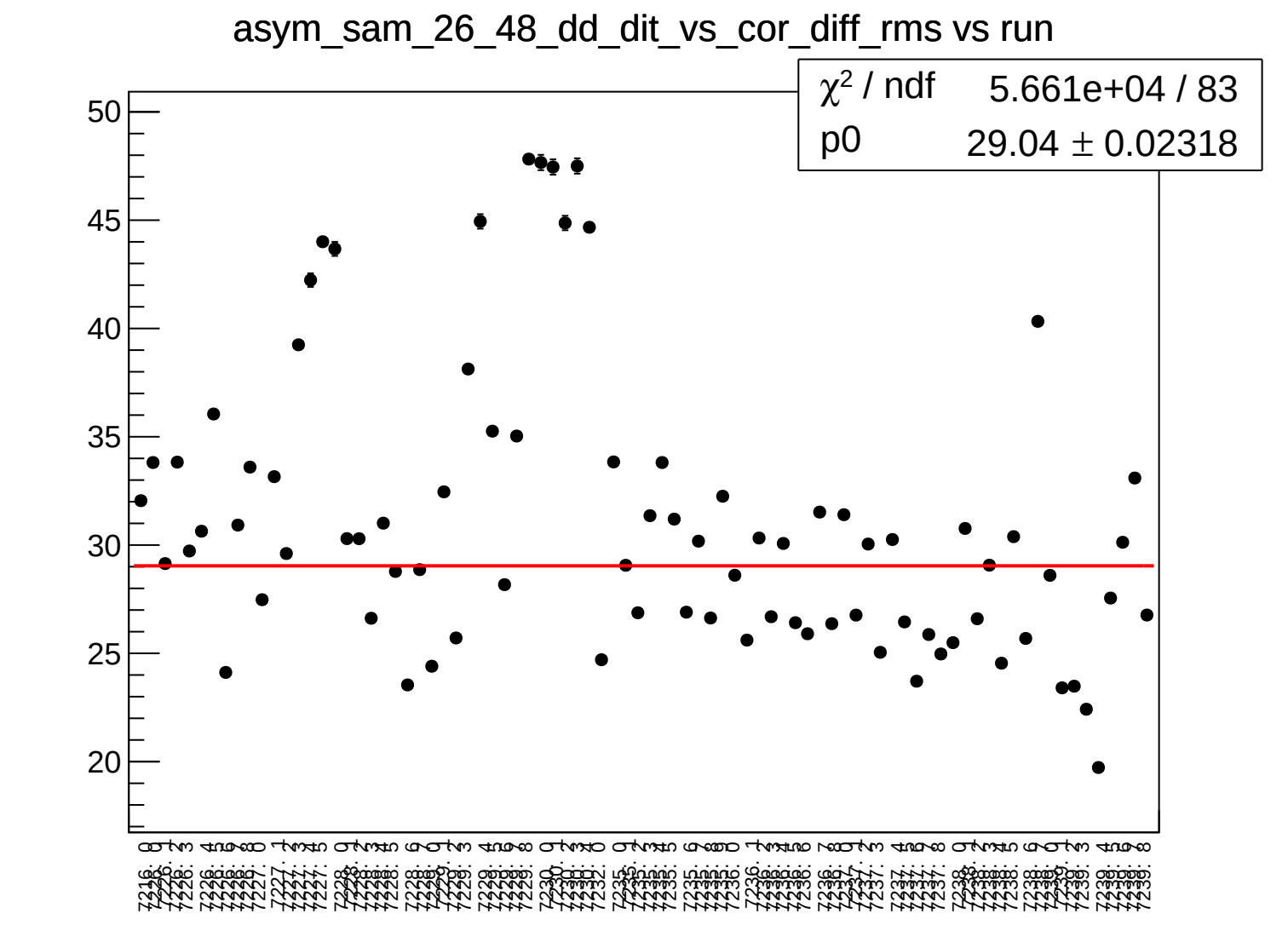

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 87.54 / 83
p0 1.988e−14 ± 1.777e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 84
Mean −61.51
Std Dev 0
3
2
1
0
−1
−2

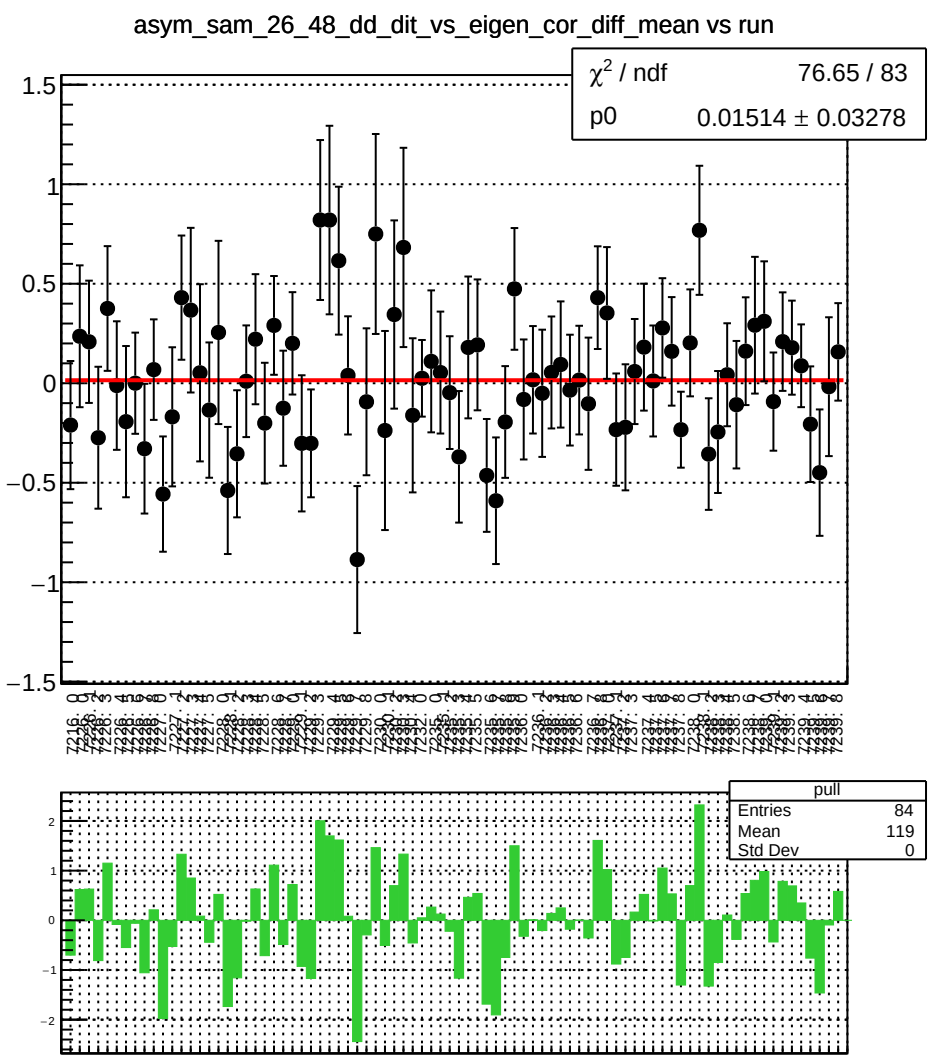

pull1D
Entries 84
Mean 0.03285
Std Dev 1.02
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

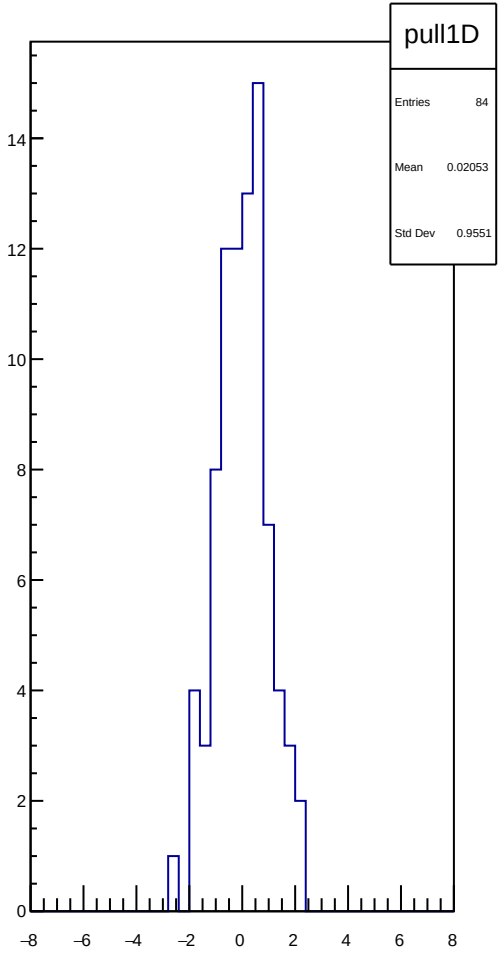

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.106e+06 / 83
p0 9.068e−12 ± 1.257e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

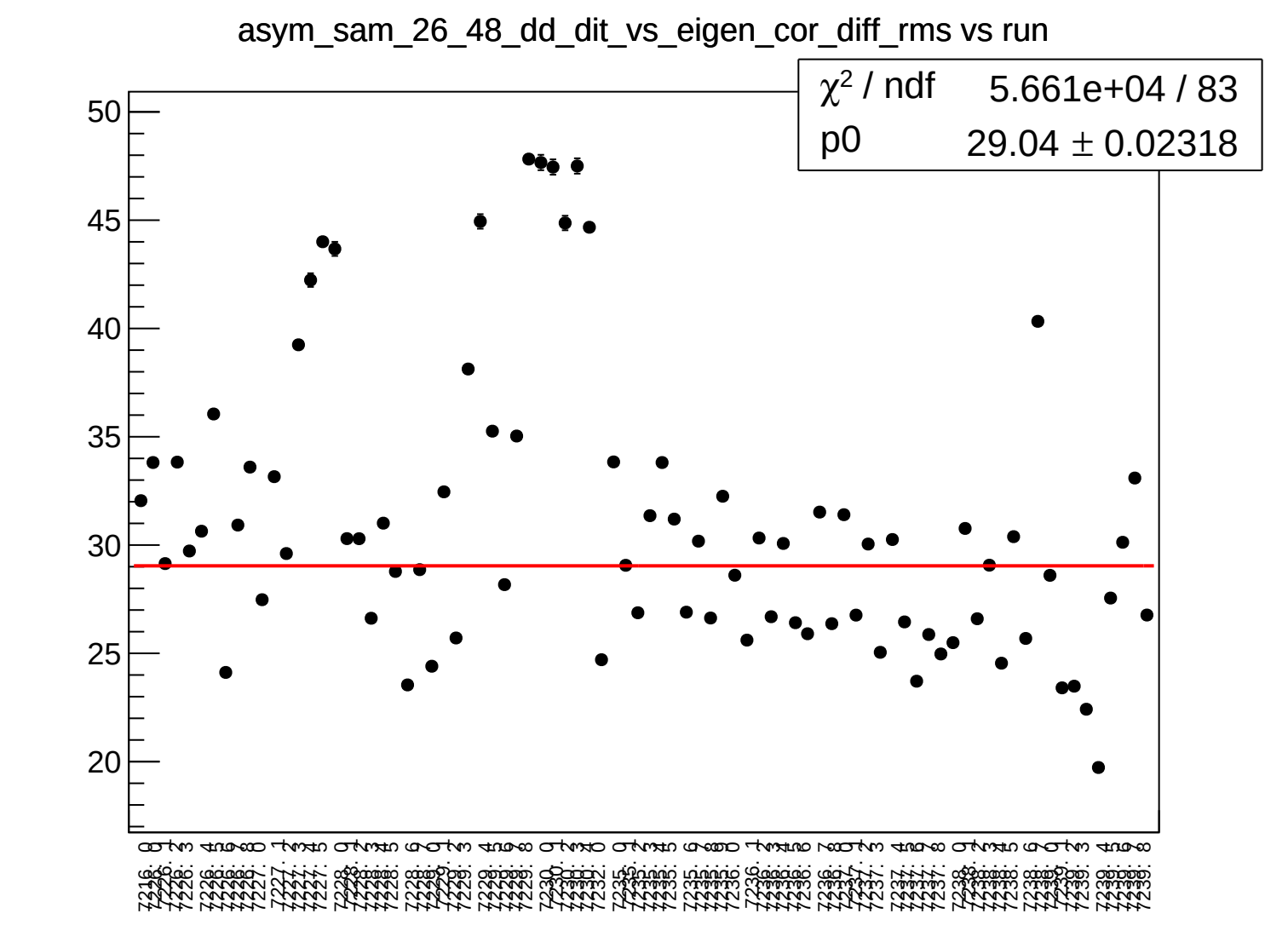

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 76.65 / 83
p0 0.01514 ± 0.03278
pull
Entries 84
Mean 119
Std Dev 0

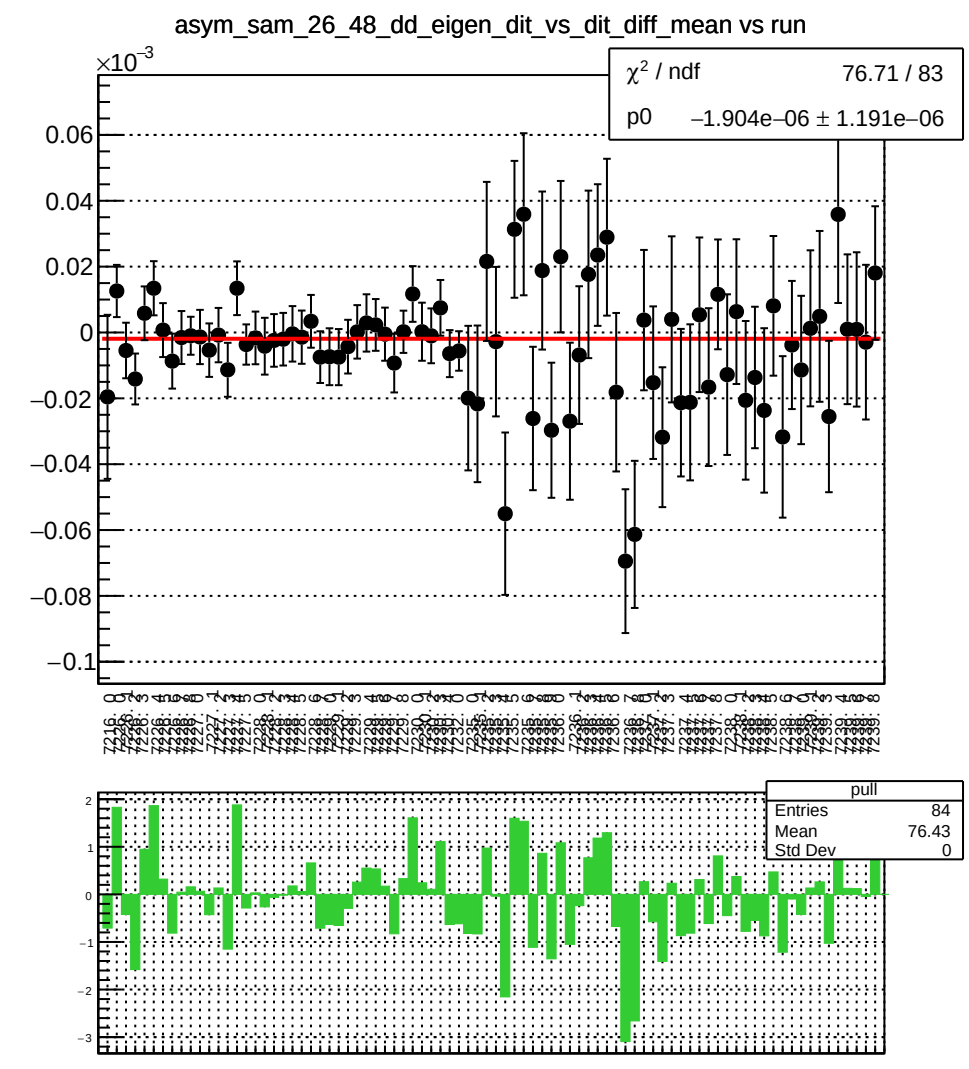

pull1D
Entries 84
Mean 0.02053
Std Dev 0.9551

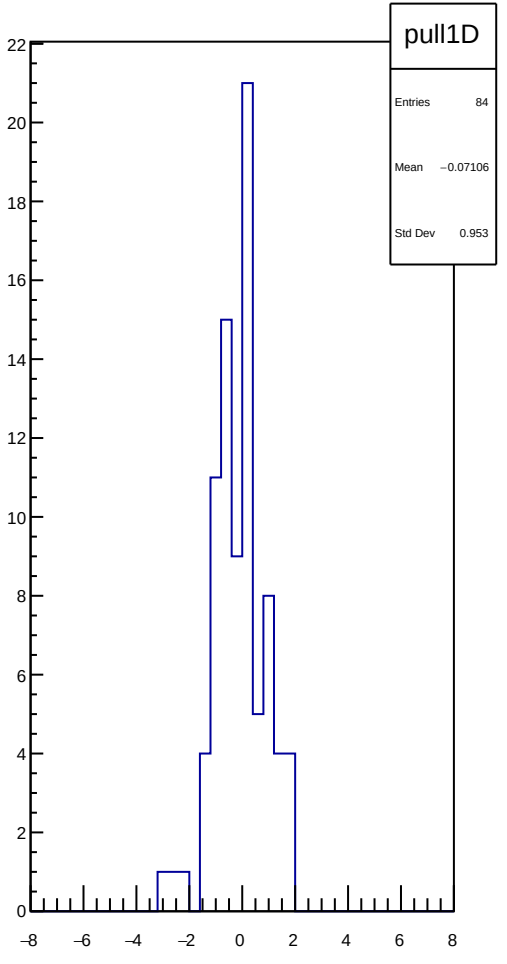

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.661e+04 / 83
p0 29.04 ± 0.02318
50
45
40
35
30
25
20

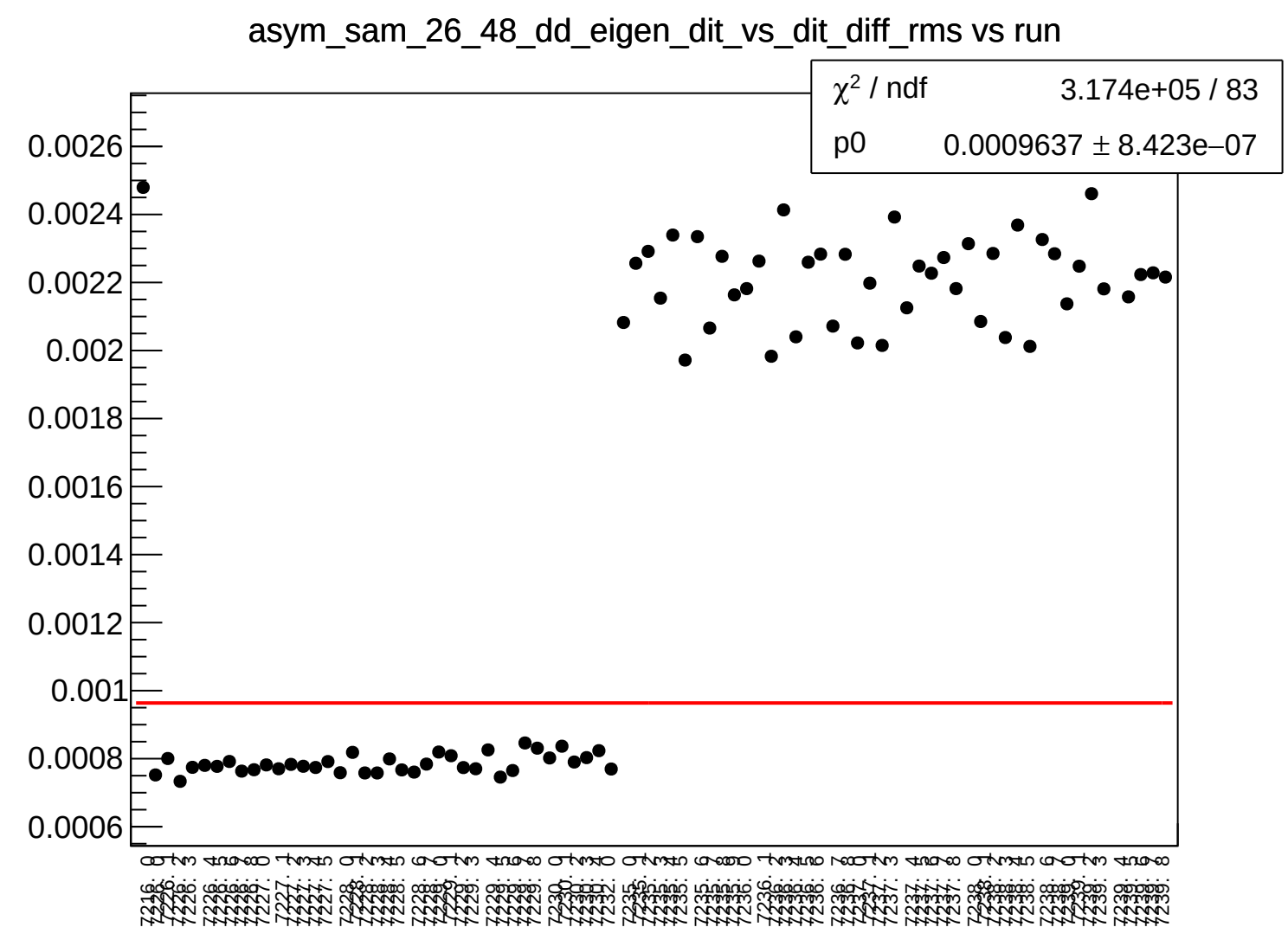

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.65 / 83
p0 0.01514 ± 0.03278
pull
Entries 84
Mean 119
Std Dev 0

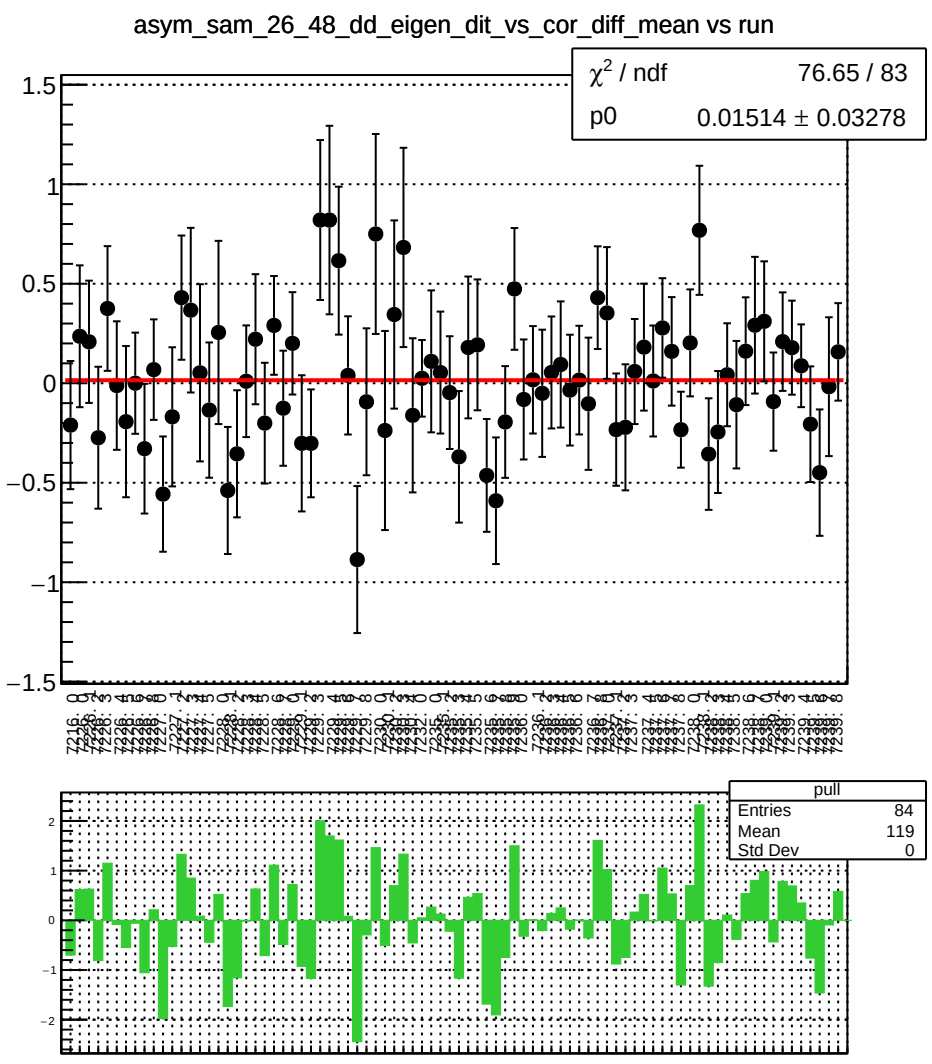

pull1D
Entries 84
Mean 0.02053
Std Dev 0.9551

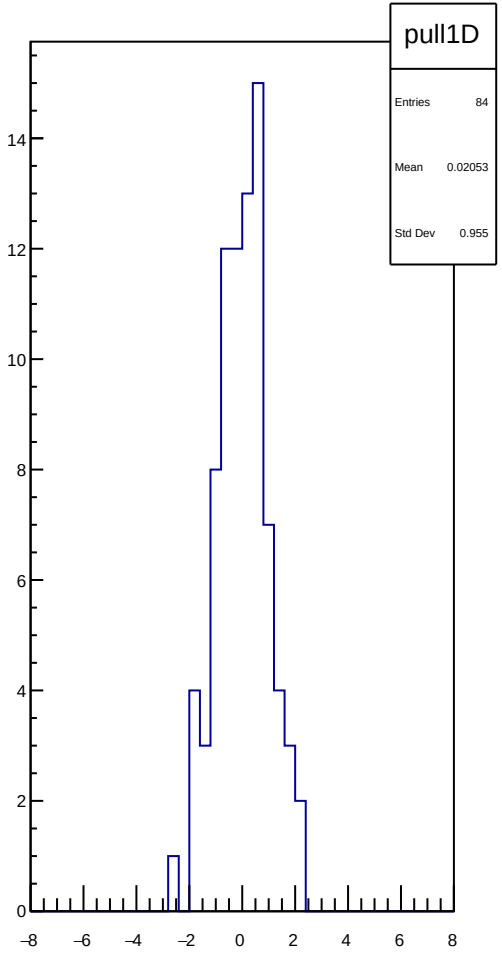

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.661e+04 / 83
p0 29.04 ± 0.02318
50
45
40
35
30
25
20

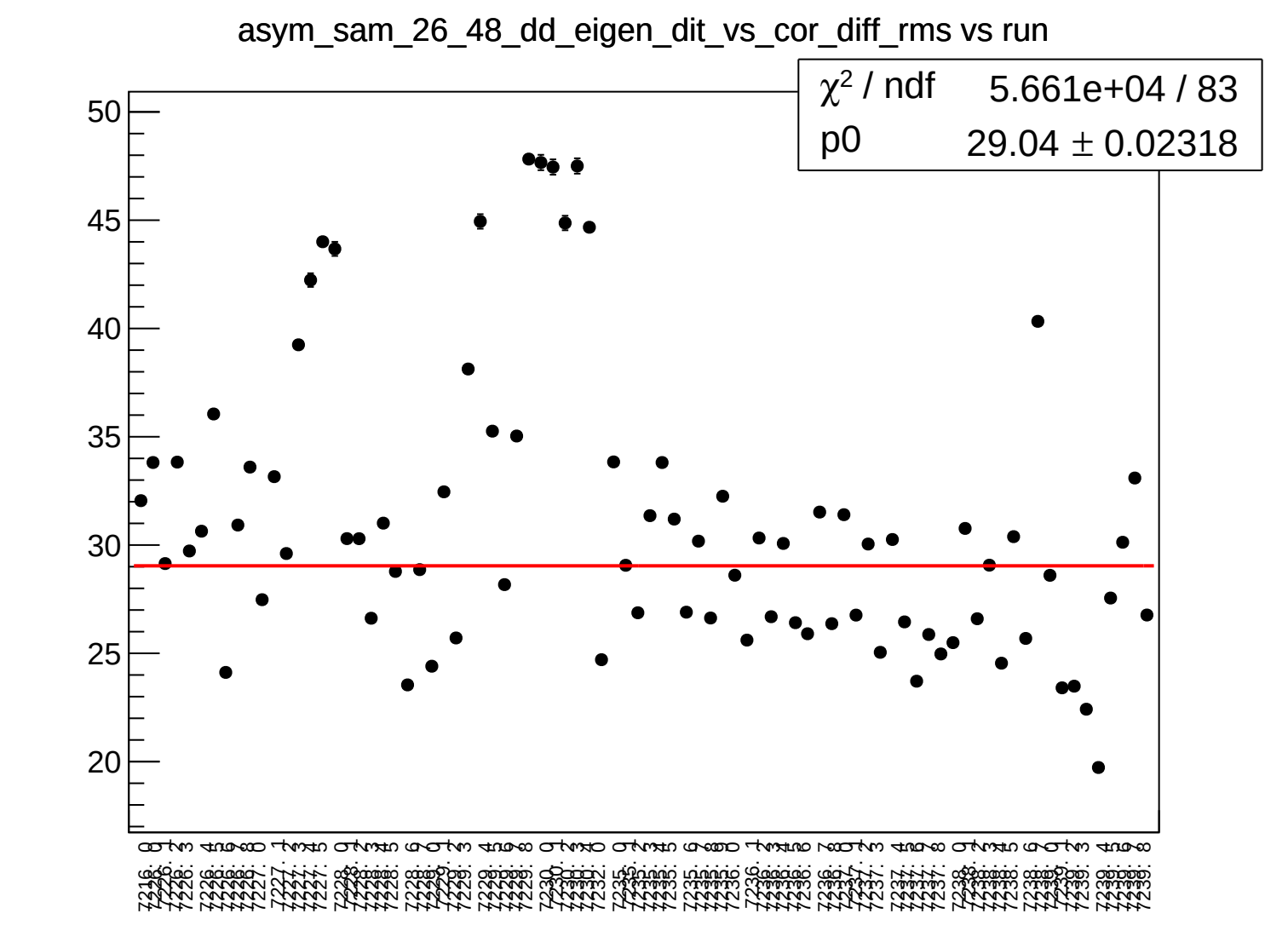

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 76.71 / 83
p0 −1.904e−06 ± 1.191e−06
pull
Entries 84
Mean 76.43
Std Dev 0

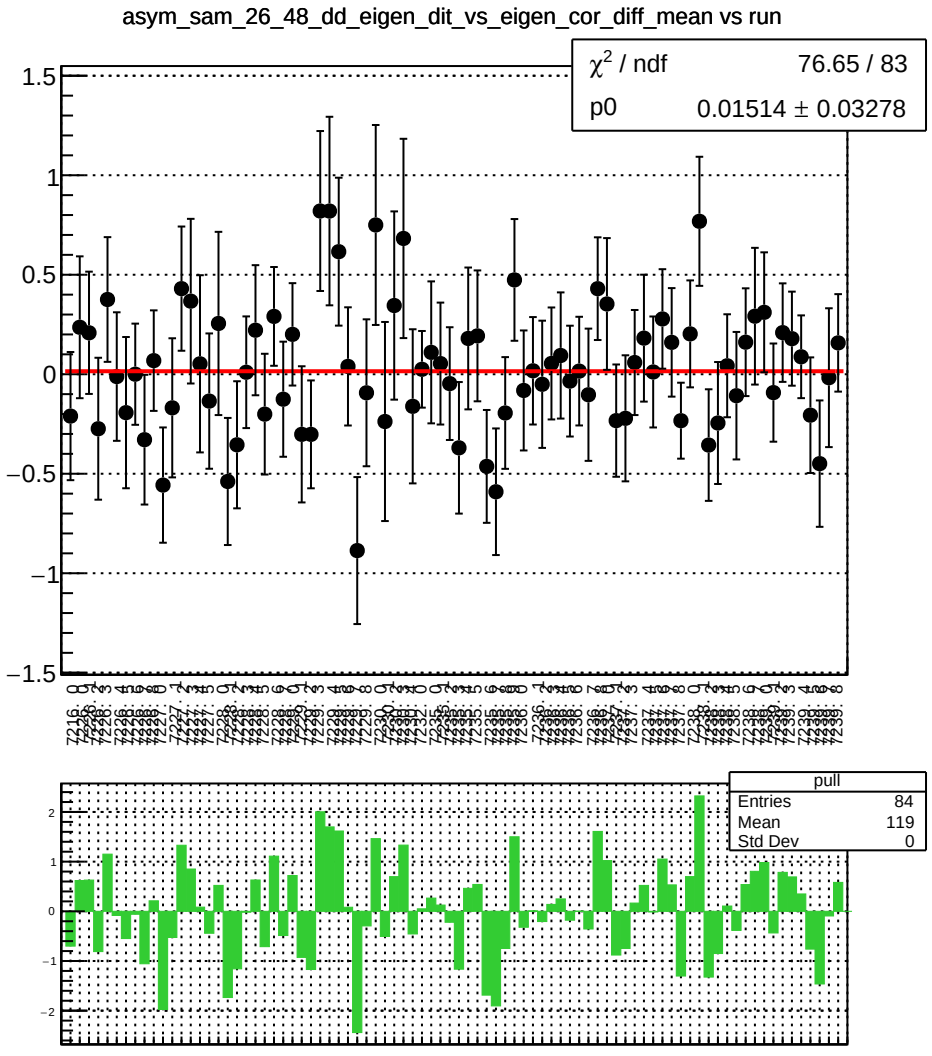

pull1D
Entries 84
Mean −0.07106
Std Dev 0.953

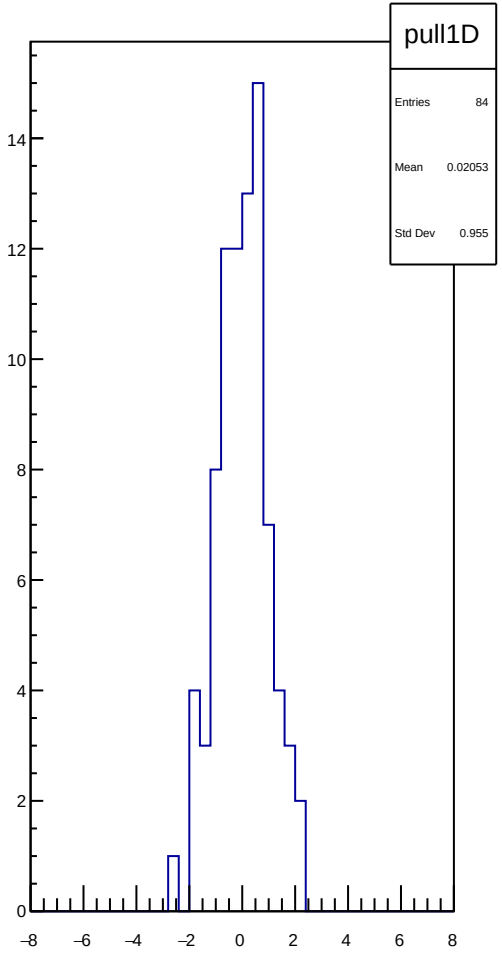

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.174e+05 / 83
p0 0.0009637 ± 8.423e−07
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006

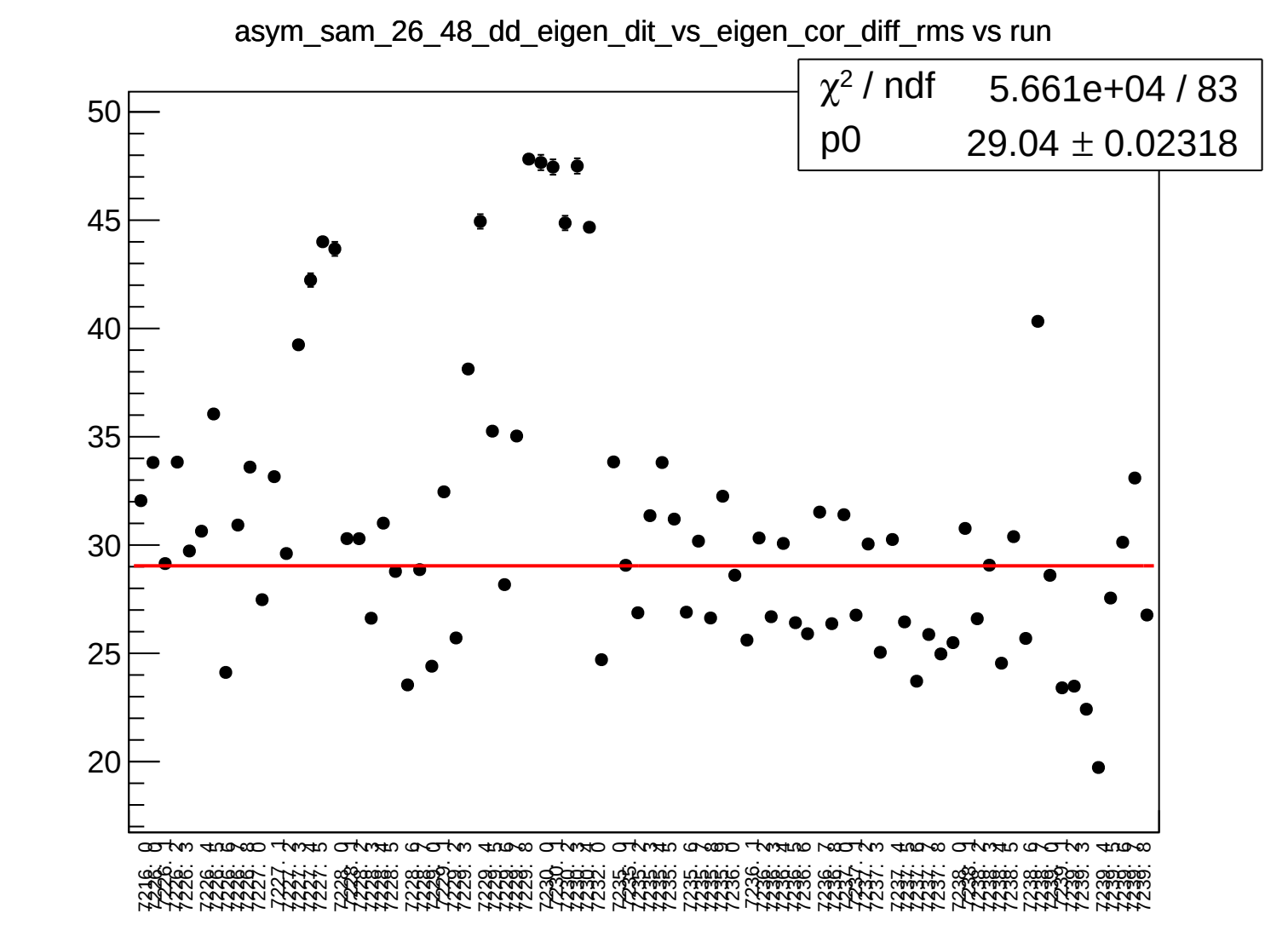

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.65 / 83
p0 0.01514 ± 0.03278
pull
Entries 84
Mean 119
Std Dev 0

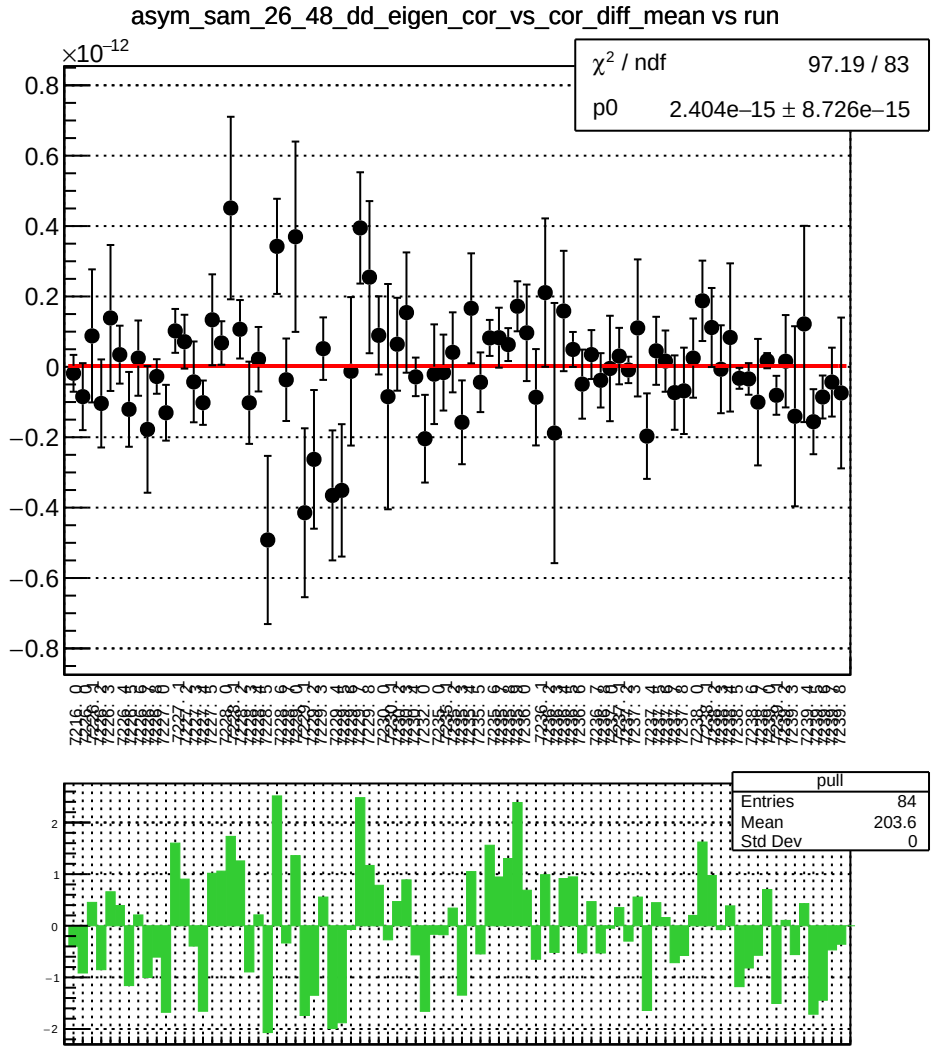

pull1D
Entries 84
Mean 0.02053
Std Dev 0.955

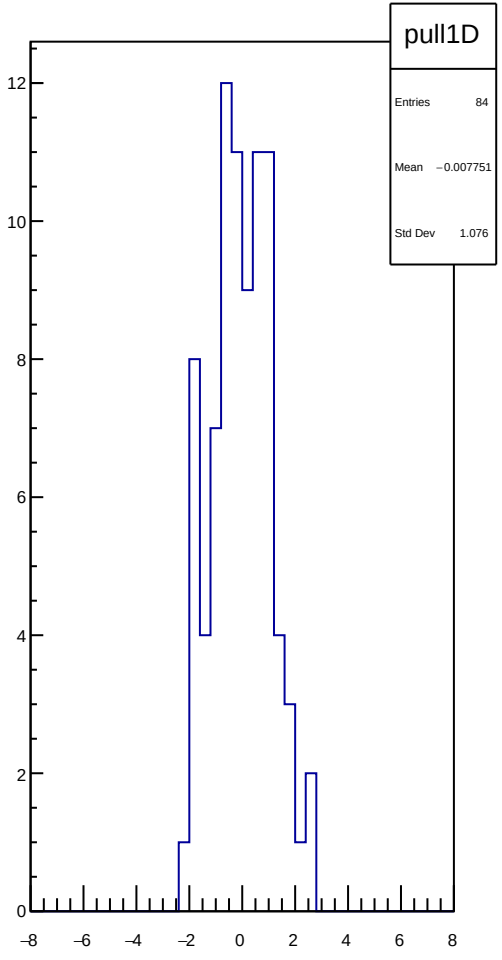

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.661e+04 / 83
p0 29.04 ± 0.02318
50
45
40
35
30
25
20

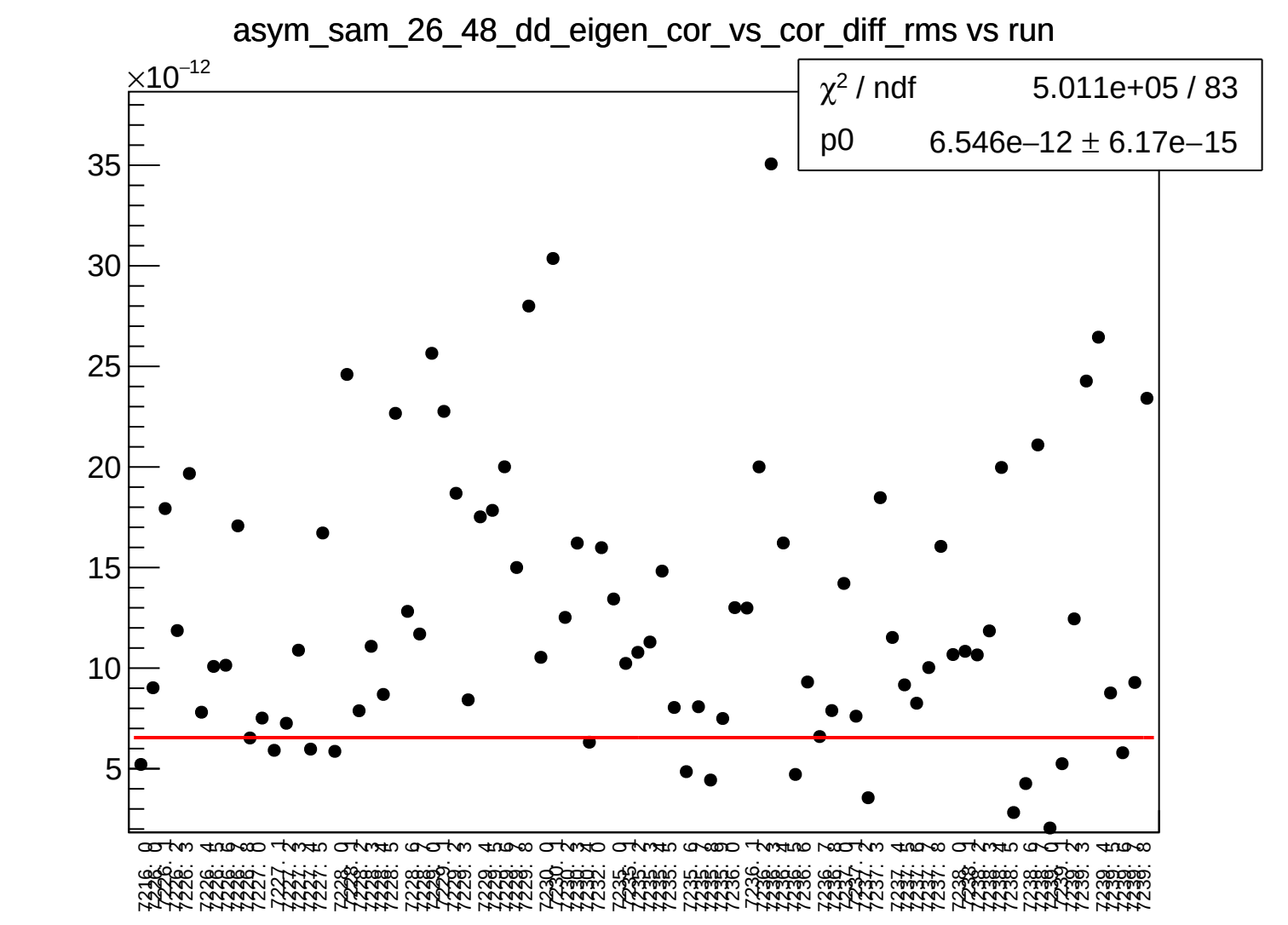

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.65 / 83
p0 0.01514 ± 0.03278
pull
Entries 84
Mean 119
Std Dev 0

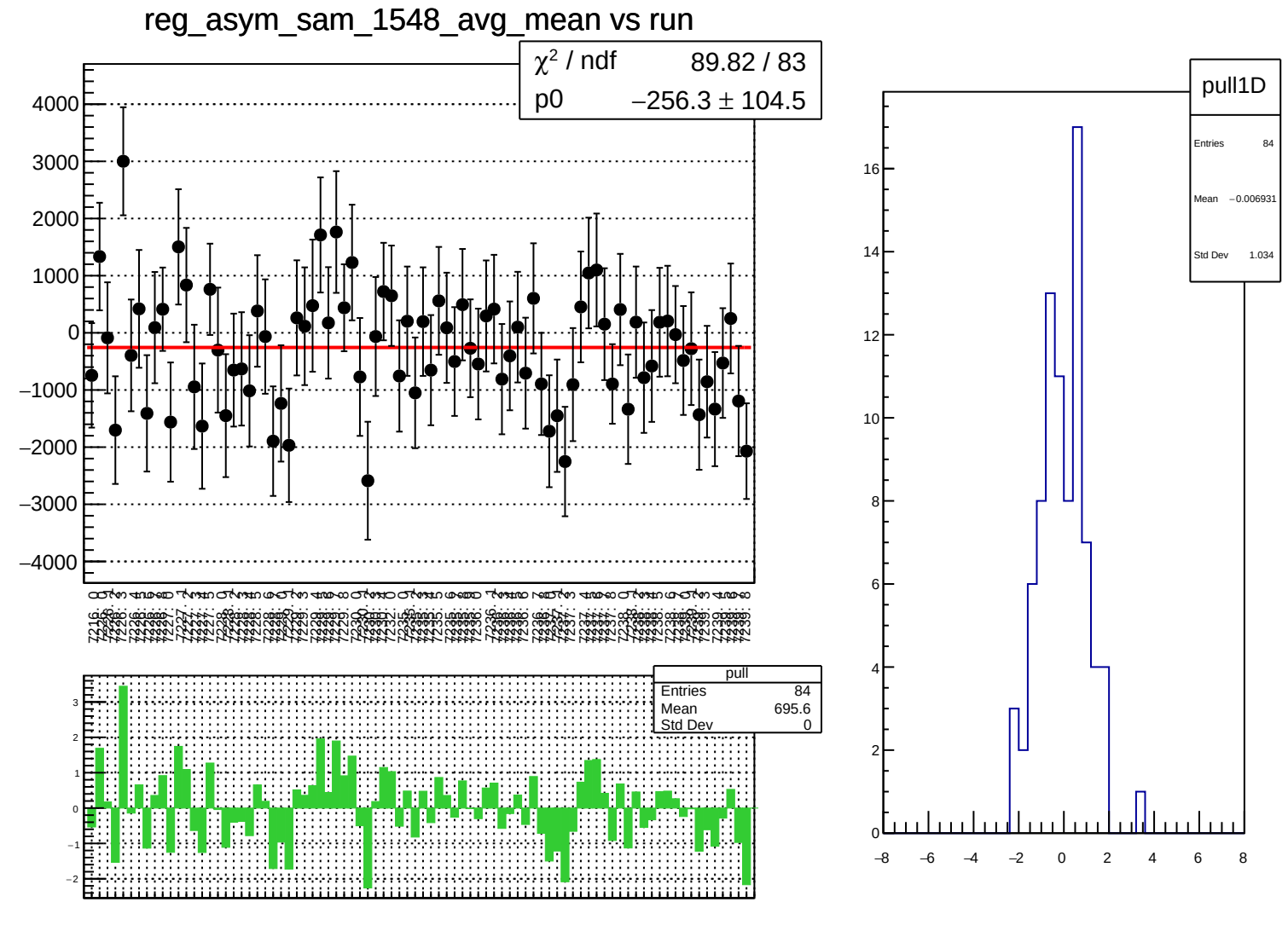

pull1D
Entries 84
Mean 0.02053
Std Dev 0.955

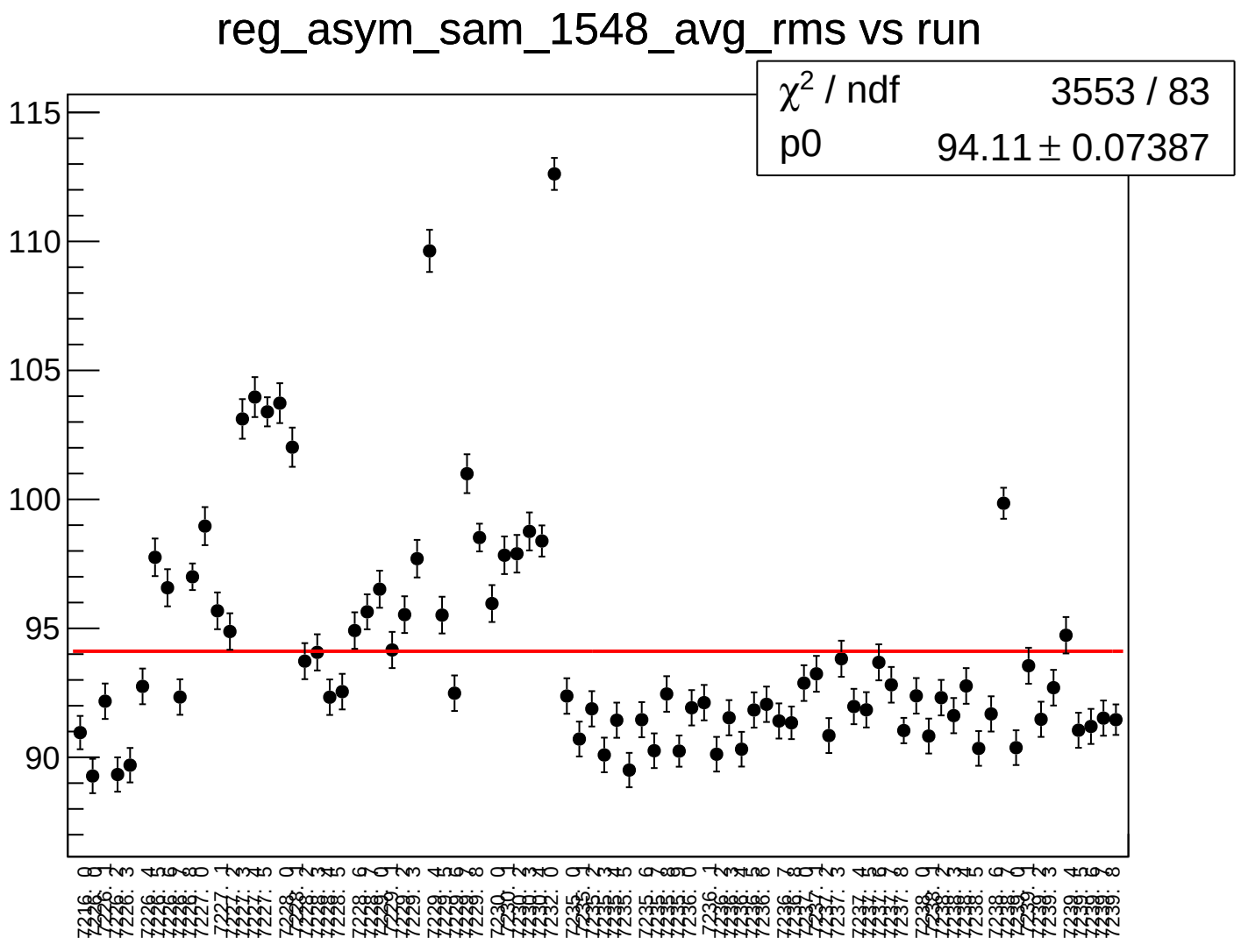

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.661e+04 / 83
p0 29.04 ± 0.02318
50
45
40
35
30
25
20

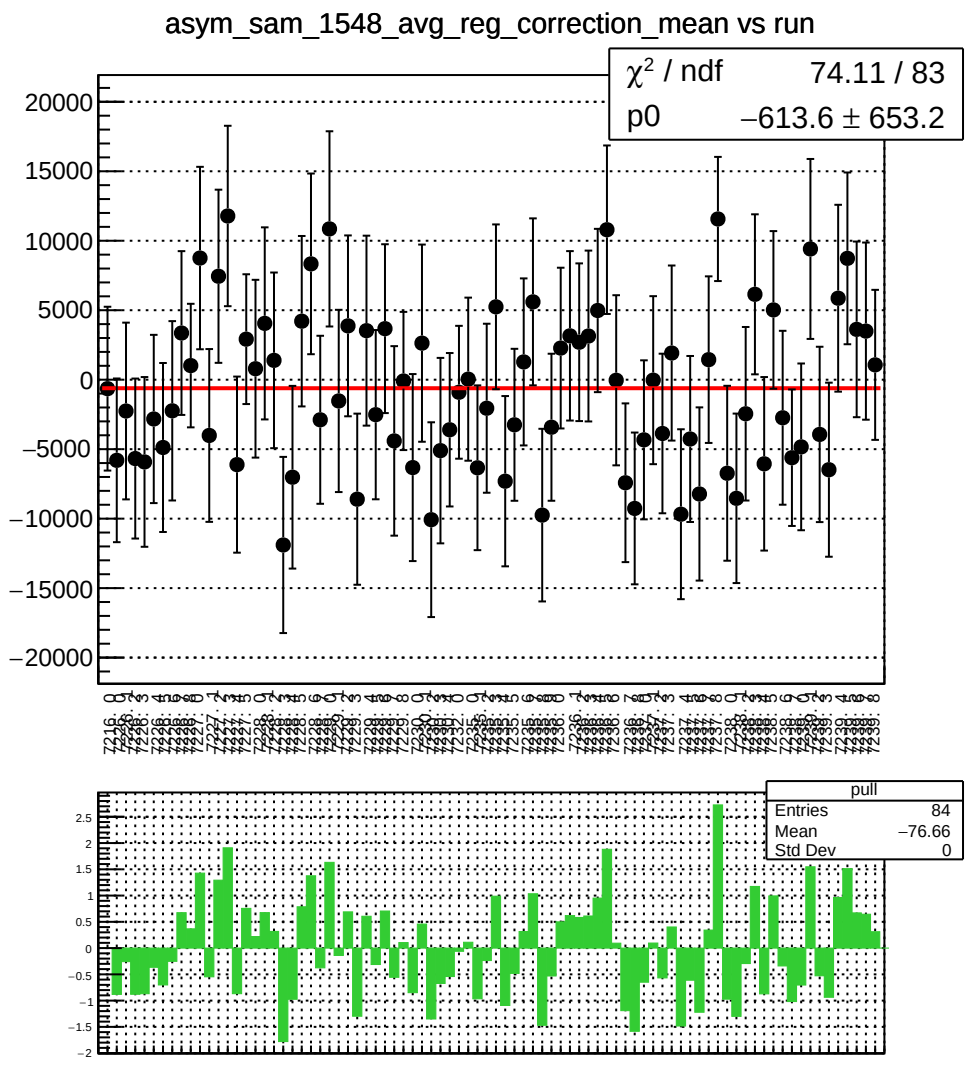

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 97.19 / 83
p0 2.404e−15 ± 8.726e−15
pull
Entries 84
Mean 203.6
Std Dev 0

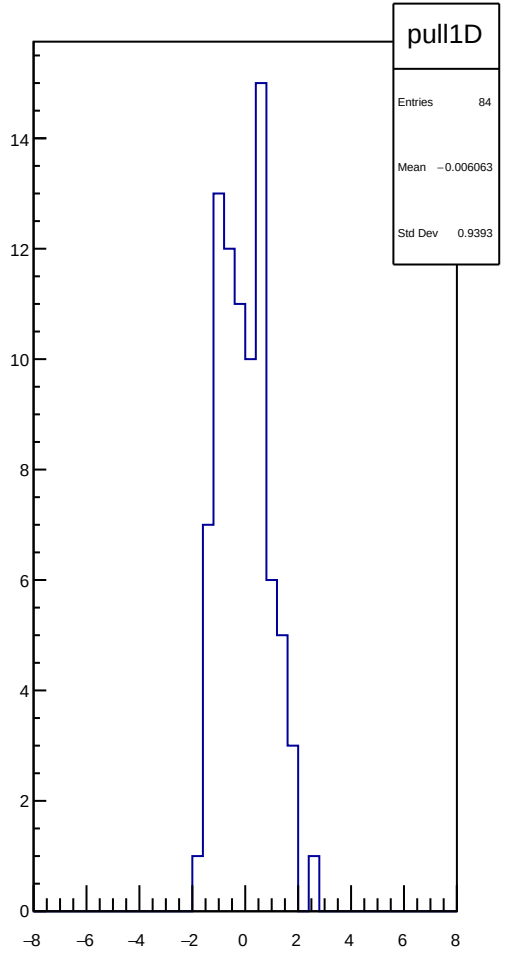

pull1D
Entries 84
Mean −0.007751
Std Dev 1.076

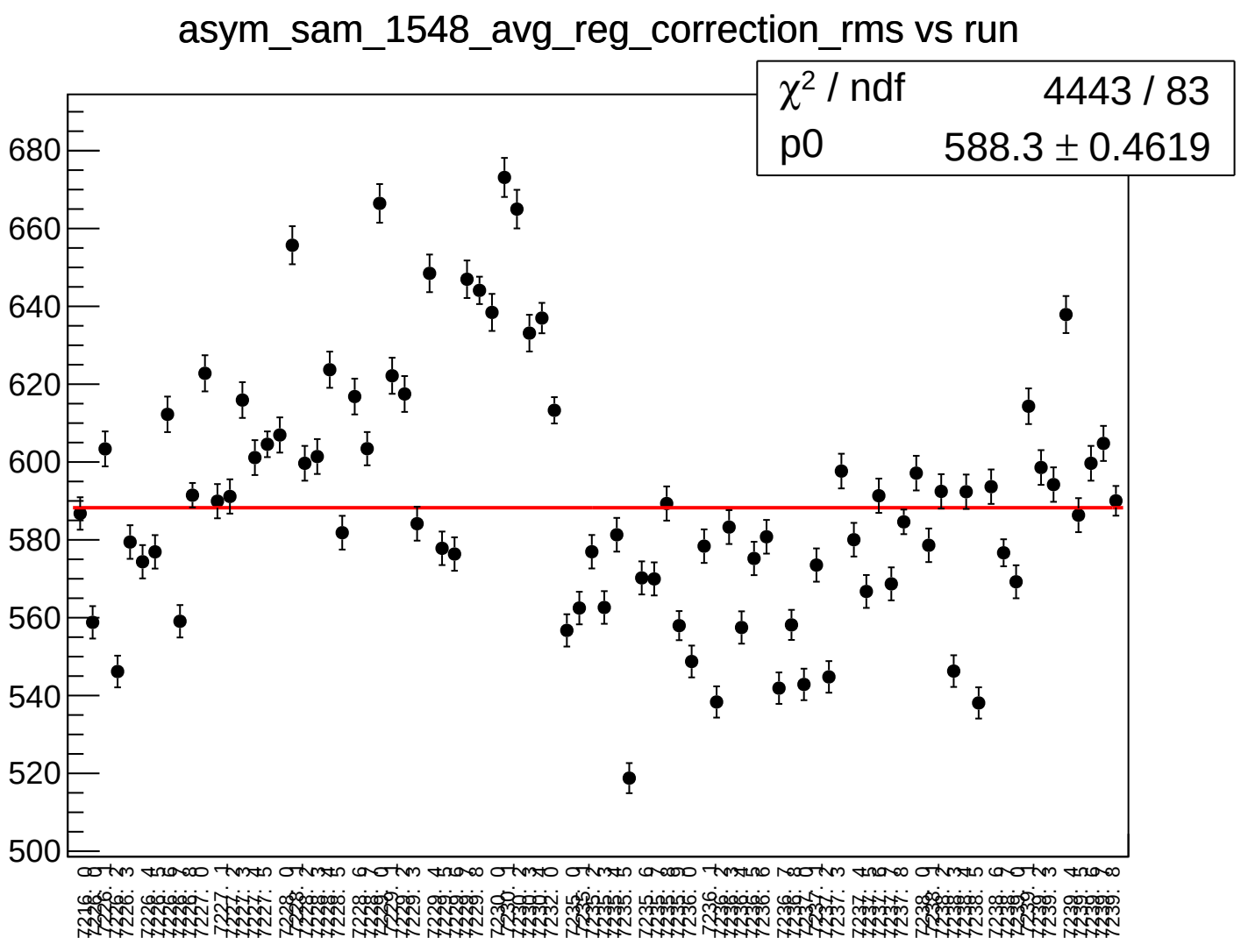

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.011e+05 / 83
p0 6.546e−12 ± 6.17e−15
35
30
25
20
15
10
5

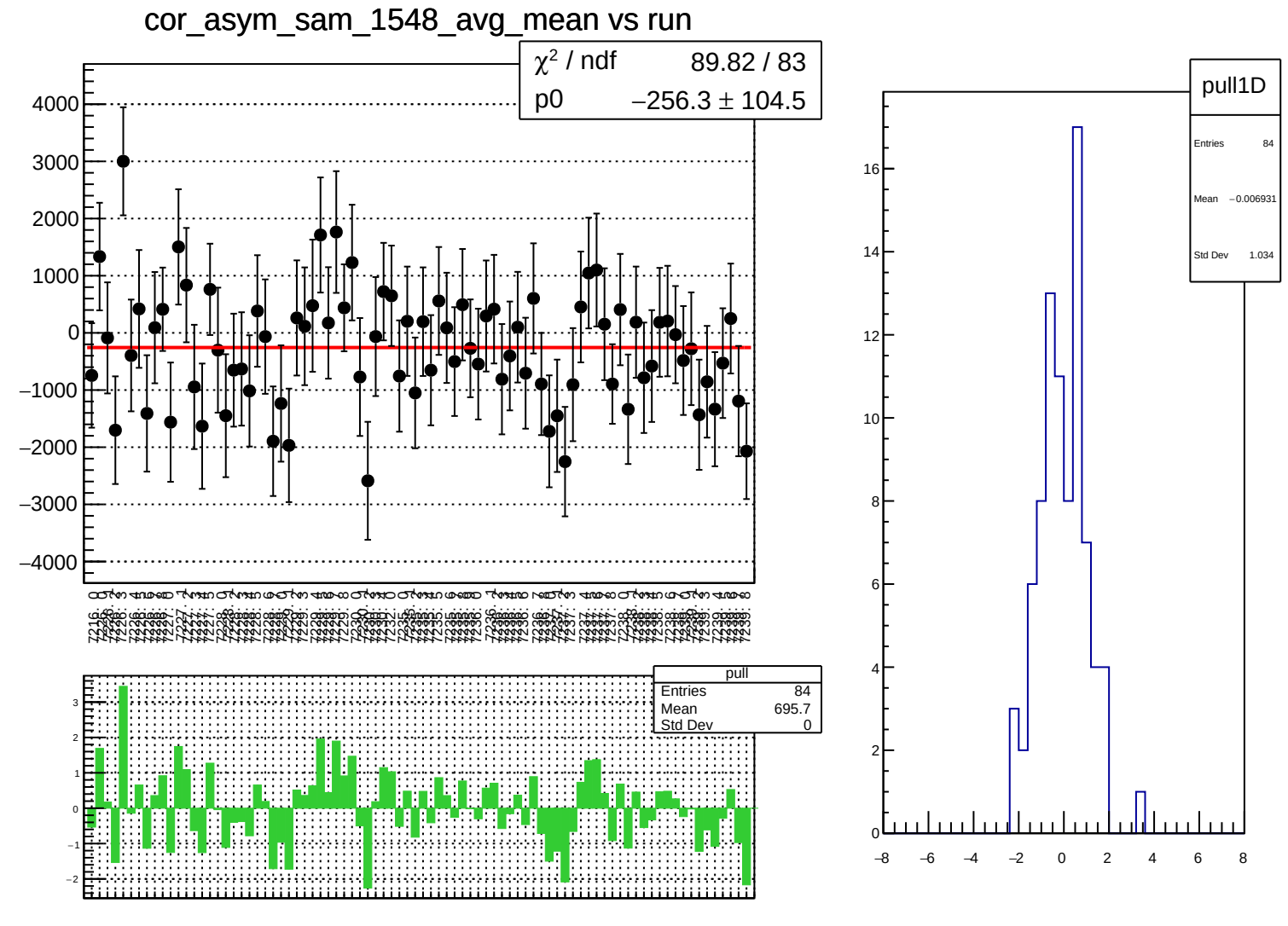

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 89.82 / 83
p0 −256.3 ± 104.5
pull
Entries 84
Mean 695.6
Std Dev 0
pull1D
Entries 84
Mean −0.006931
Std Dev 1.034

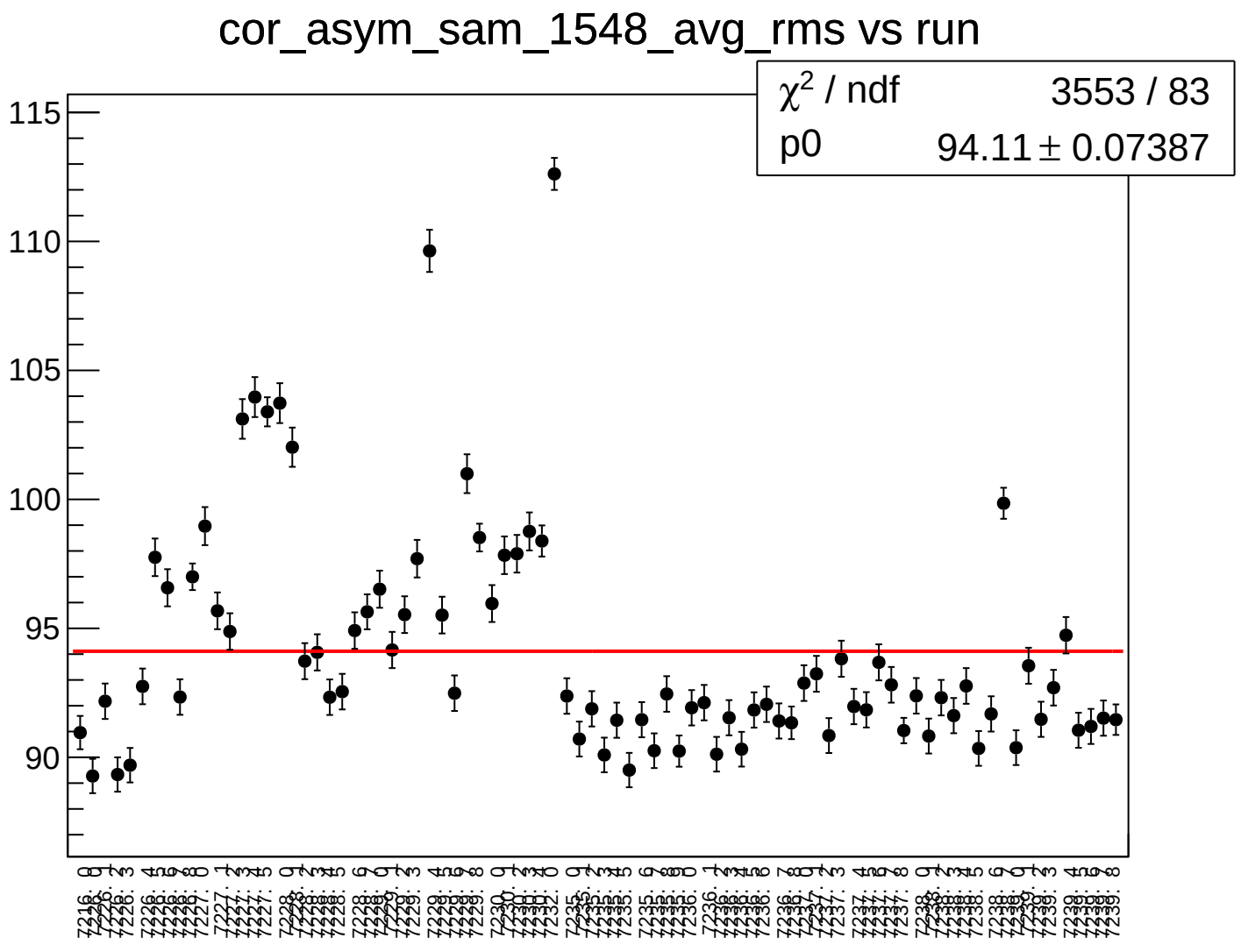

reg_asym_sam_1548_avg_rms vs run
χ^2 / ndf 3553 / 83
p0 94.11 ± 0.07387
115
110
105
100
95
90

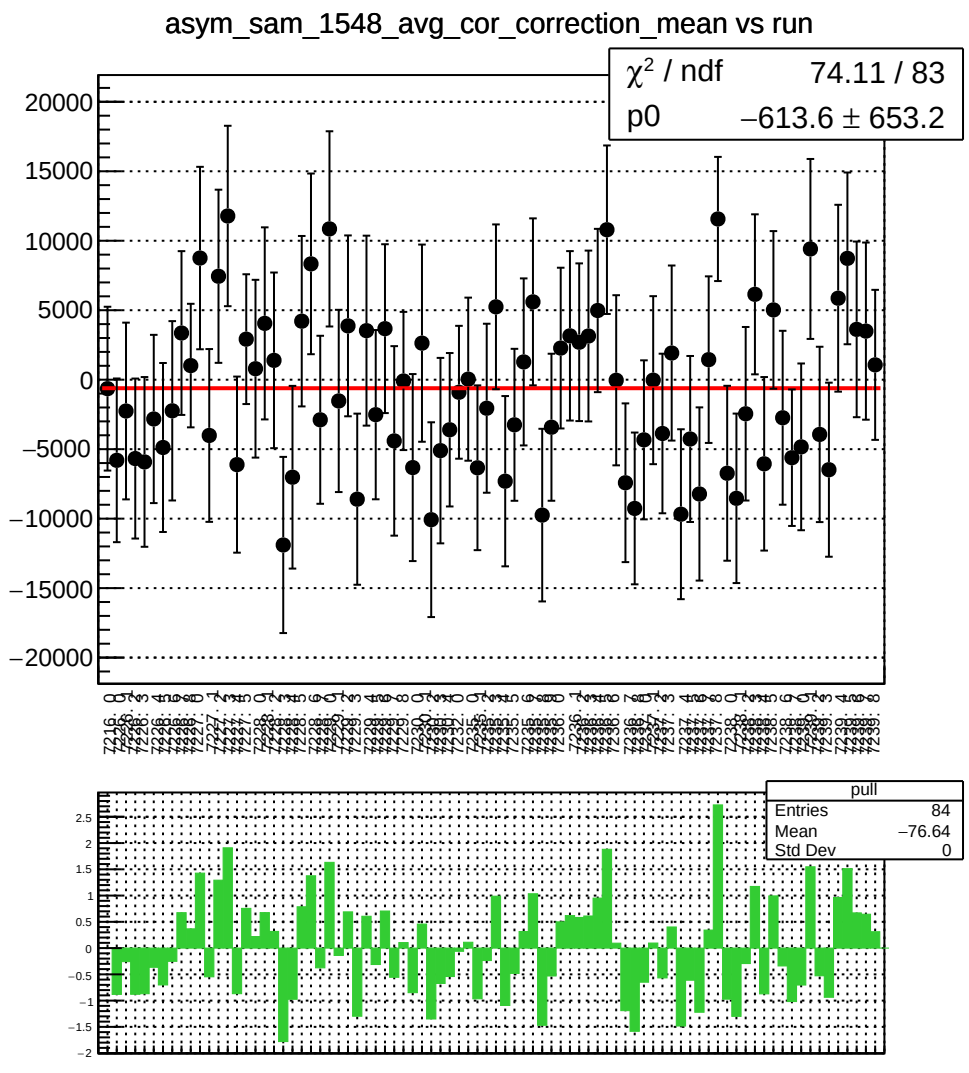

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 74.11 / 83
p0 −613.6 ± 653.2
pull
Entries 84
Mean −76.66
Std Dev 0

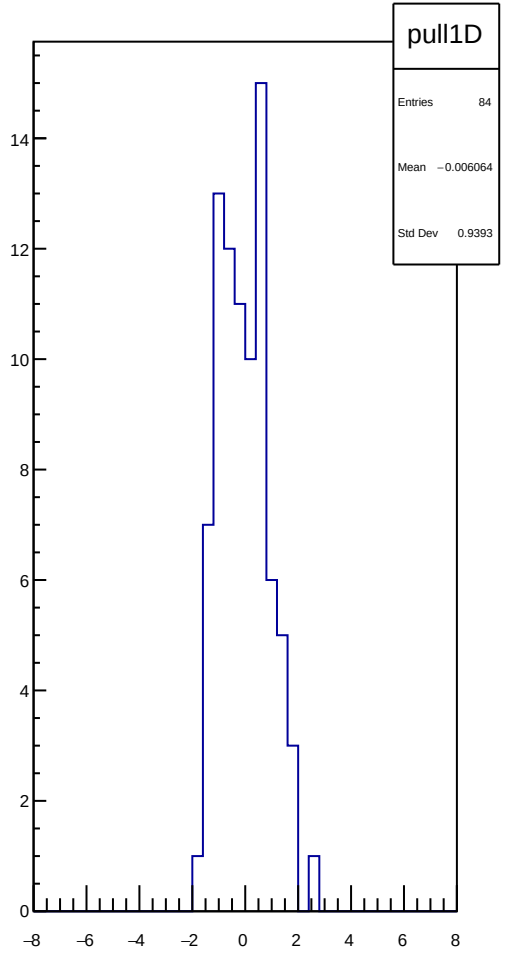

pull1D
Entries 84
Mean −0.006063
Std Dev 0.9393

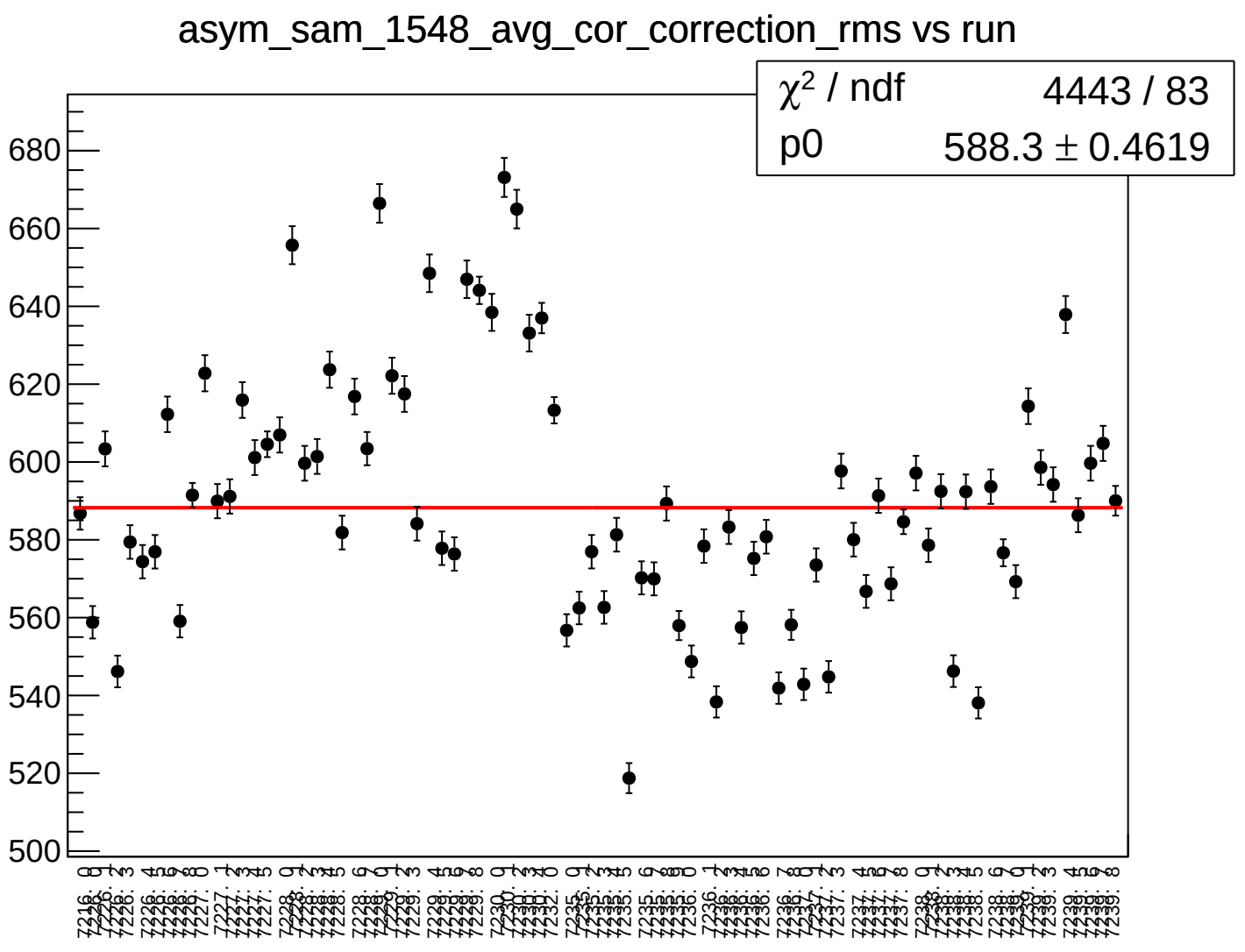

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 4443 / 83
p0 588.3 ± 0.4619
680
660
640
620
600
580
560
540
520
500

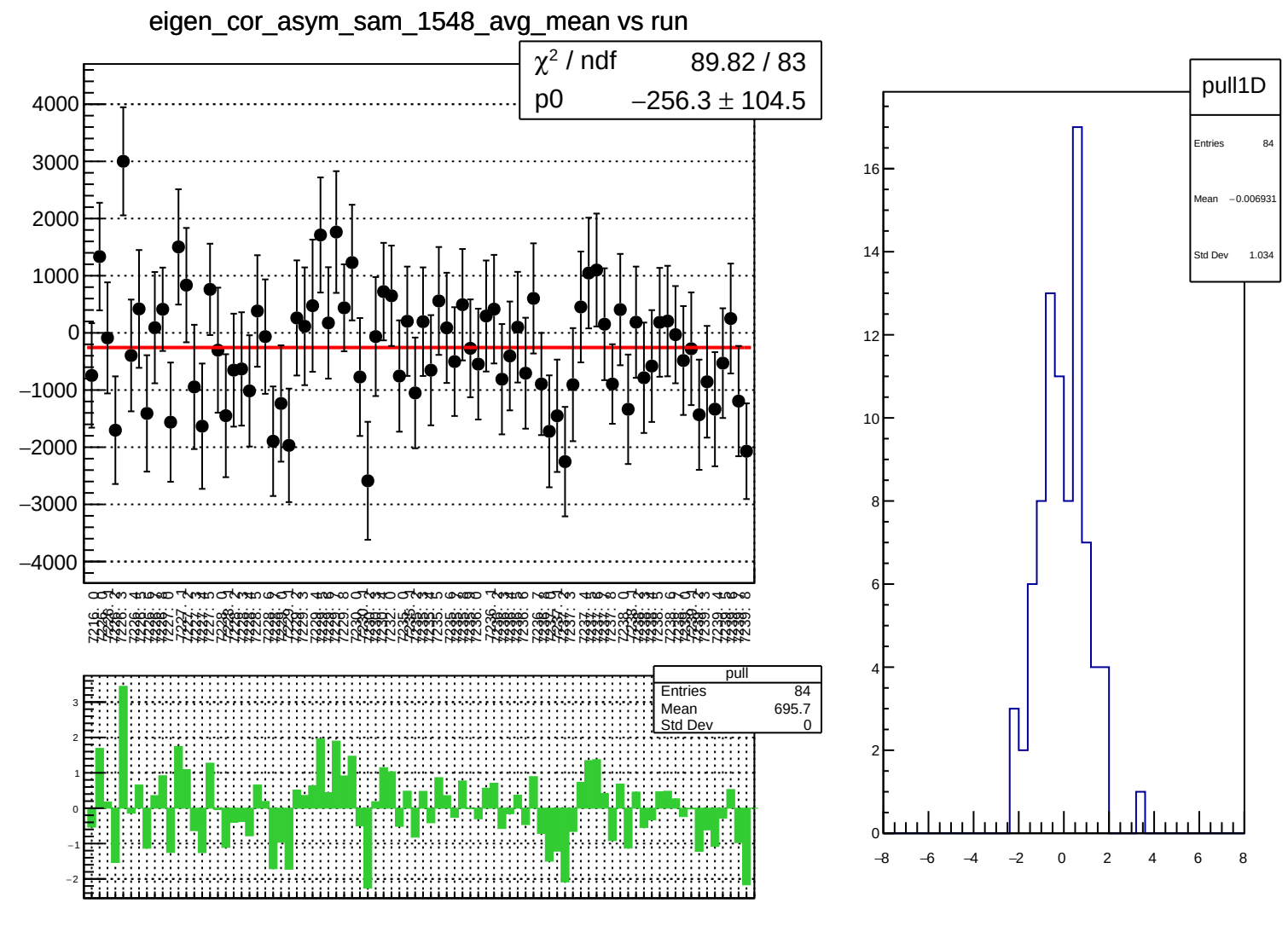

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 89.82 / 83
p0 −256.3 ± 104.5
pull
Entries 84
Mean 695.7
Std Dev 0
pull1D
Entries 84
Mean −0.006931
Std Dev 1.034

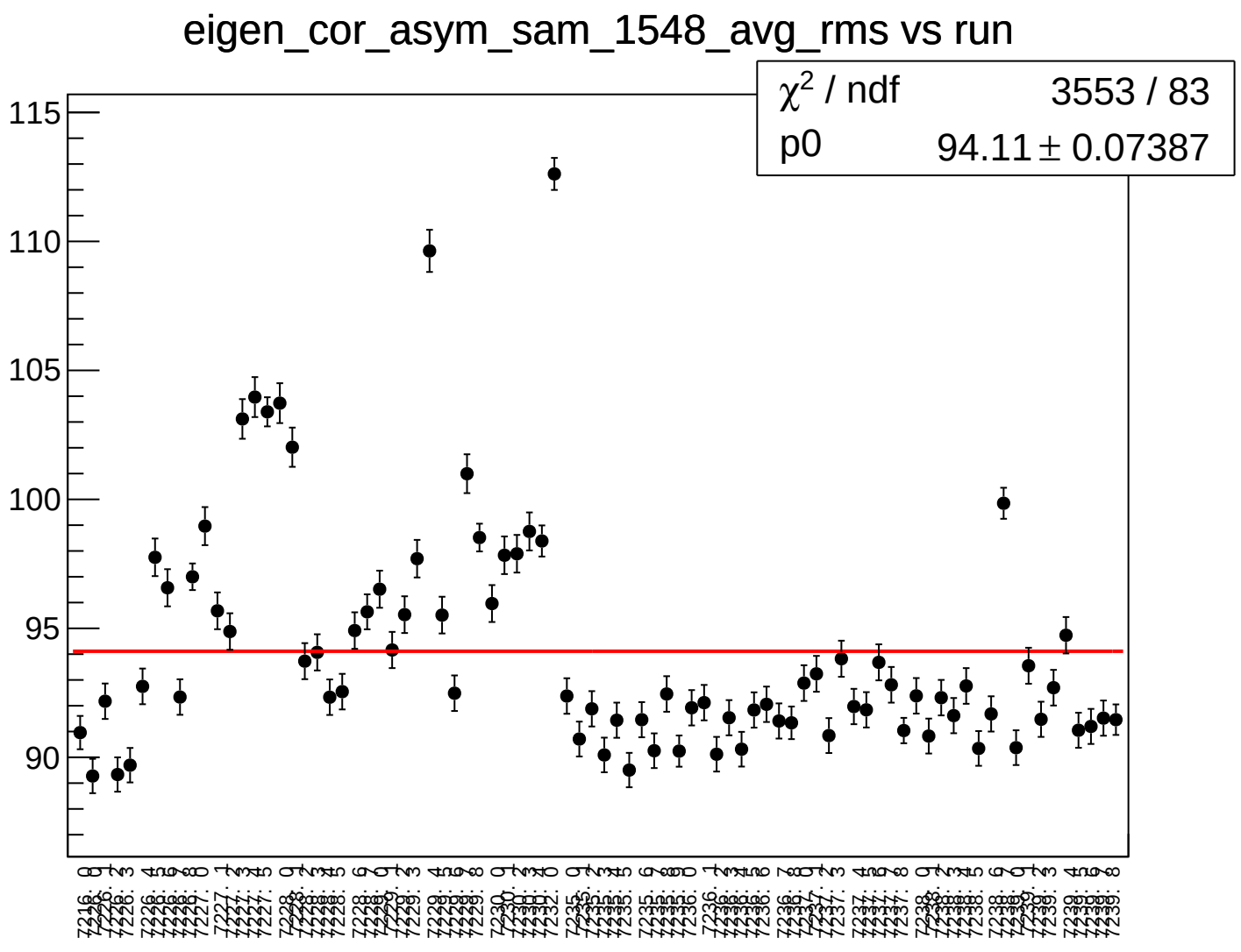

cor_asym_sam_1548_avg_rms vs run
χ^2 / ndf 3553 / 83
p0 94.11 ± 0.07387
115
110
105
100
95
90

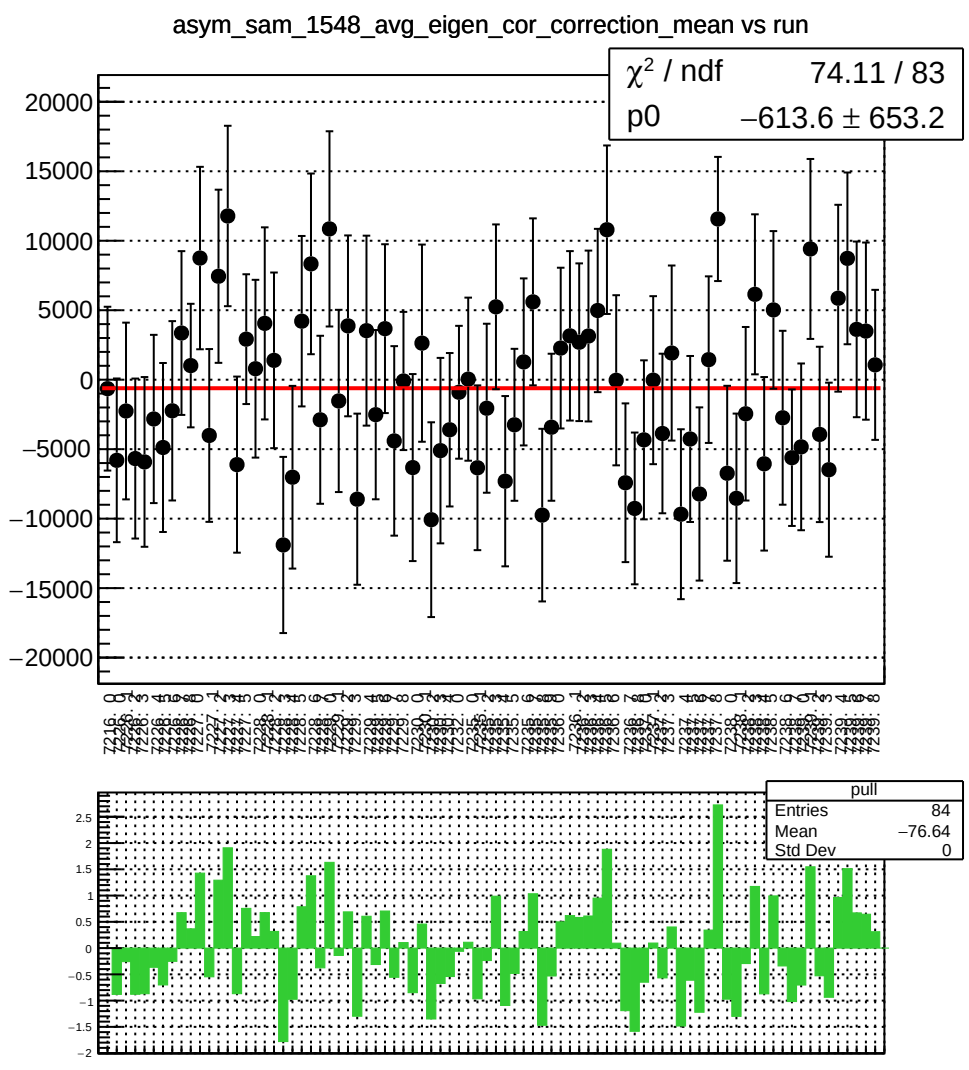

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 74.11 / 83
p0 −613.6 ± 653.2
pull
Entries 84
Mean −76.64
Std Dev 0

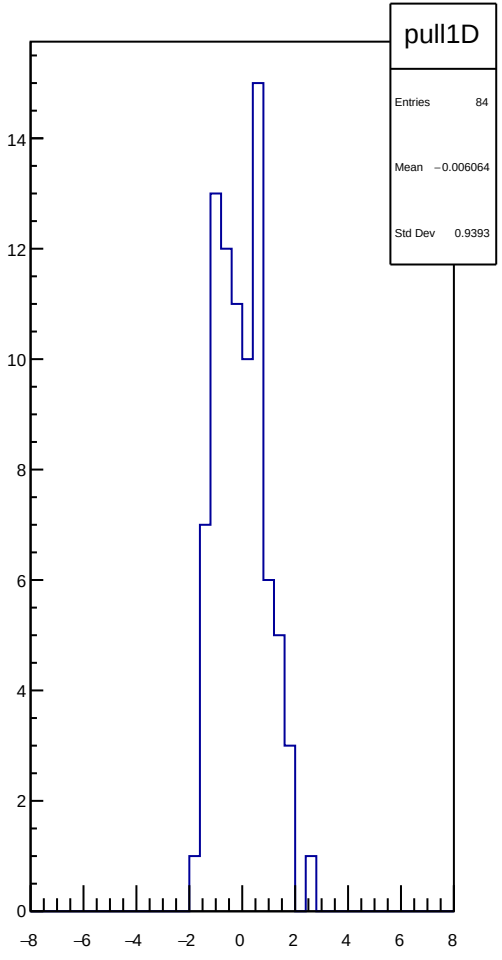

pull1D
Entries 84
Mean −0.006064
Std Dev 0.9393

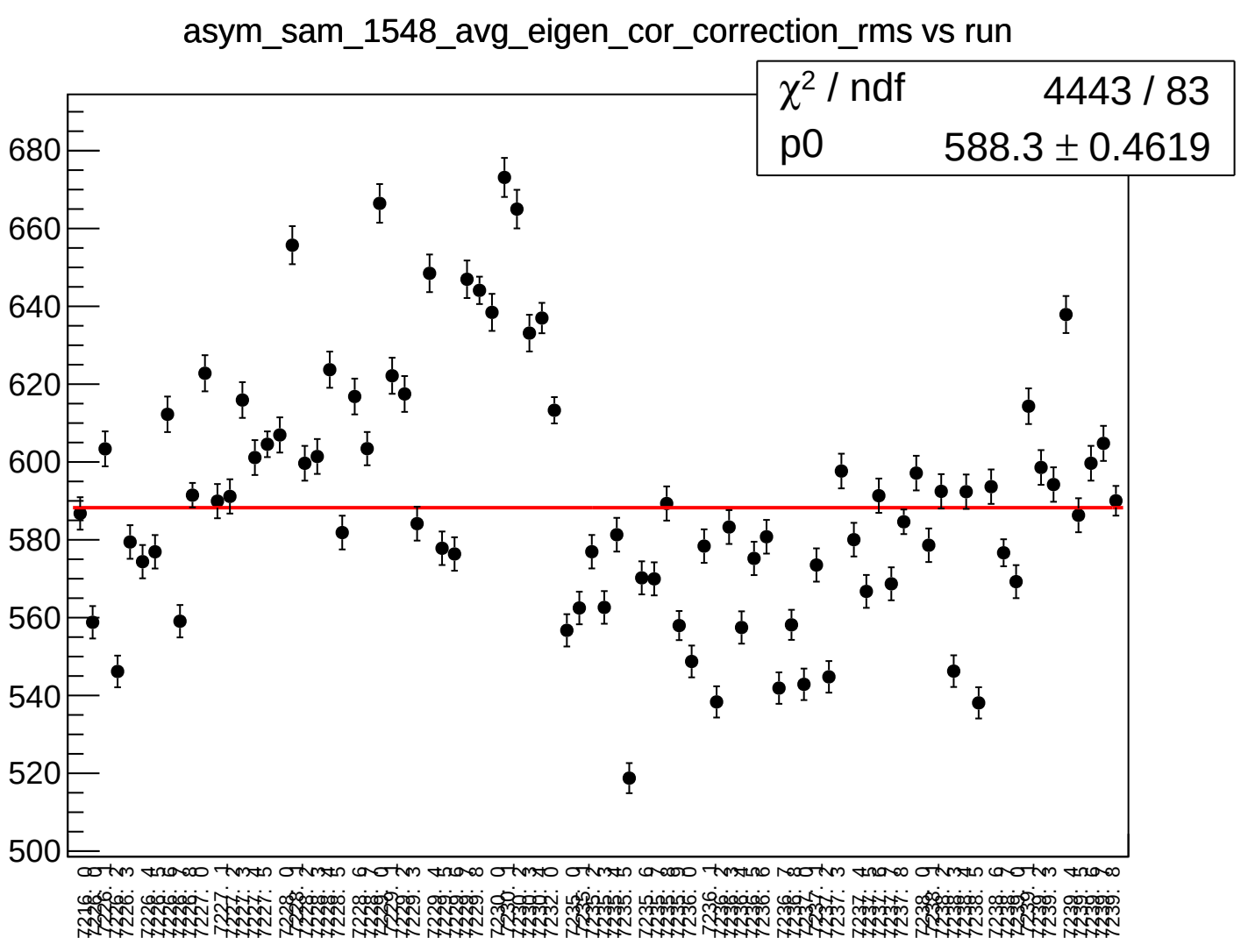

asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 4443 / 83
p0 588.3 ± 0.4619
680
660
640
620
600
580
560
540
520
500

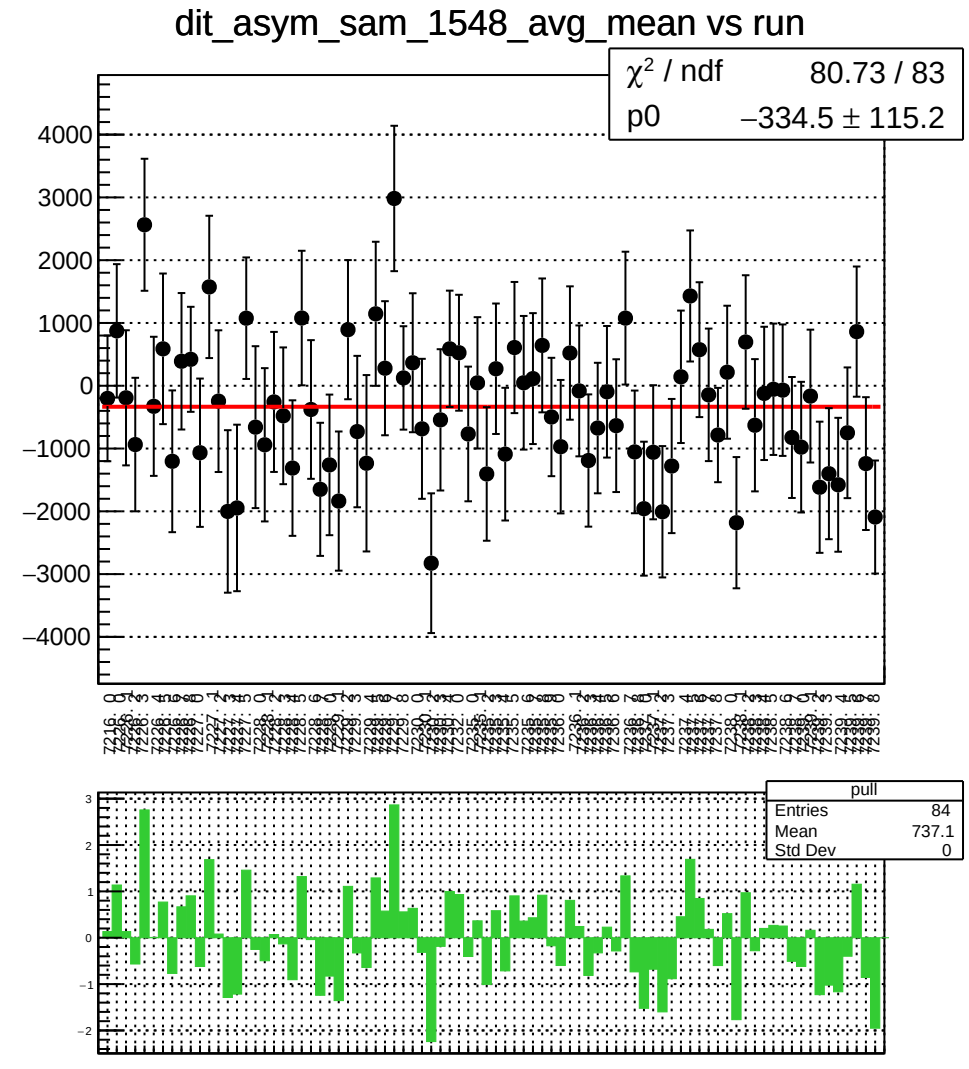

eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 89.82 / 83
p0 −256.3 ± 104.5
pull
Entries 84
Mean 695.7
Std Dev 0
pull1D
Entries 84
Mean −0.006931
Std Dev 1.034

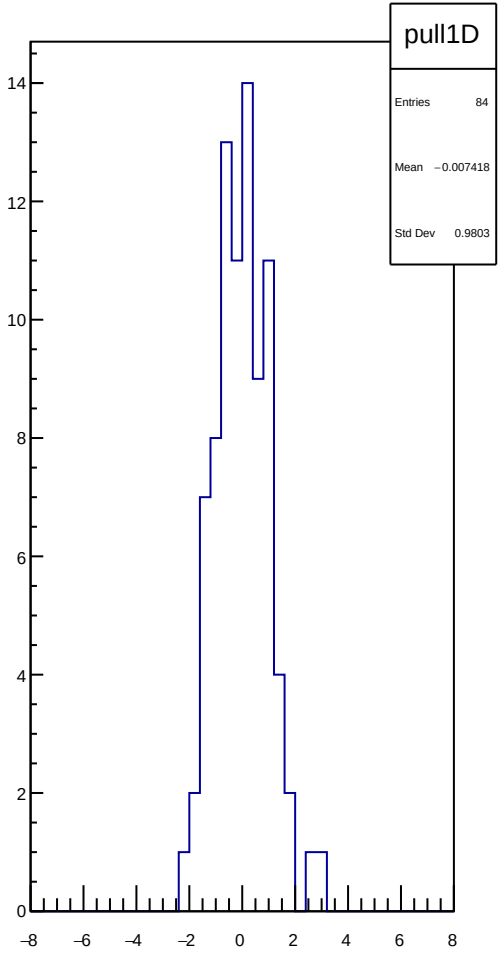

eigen_cor_asym_sam_1548_avg_rms vs run
χ² / ndf 3553 / 83
p0 94.11 ± 0.07387
115
110
105
100
95
90

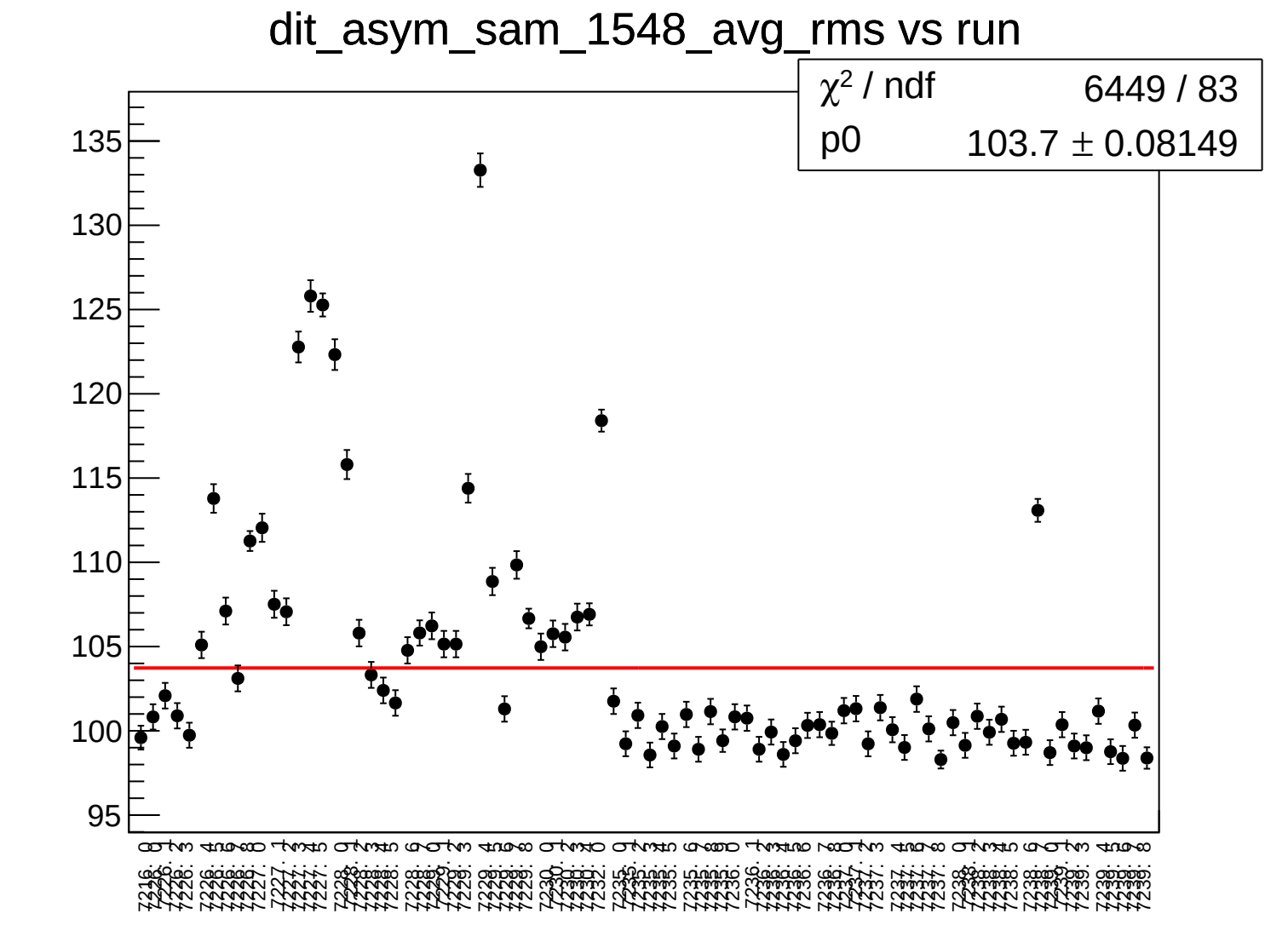

asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 74.11 / 83
p0 −613.6 ± 653.2
pull
Entries 84
Mean −76.64
Std Dev 0

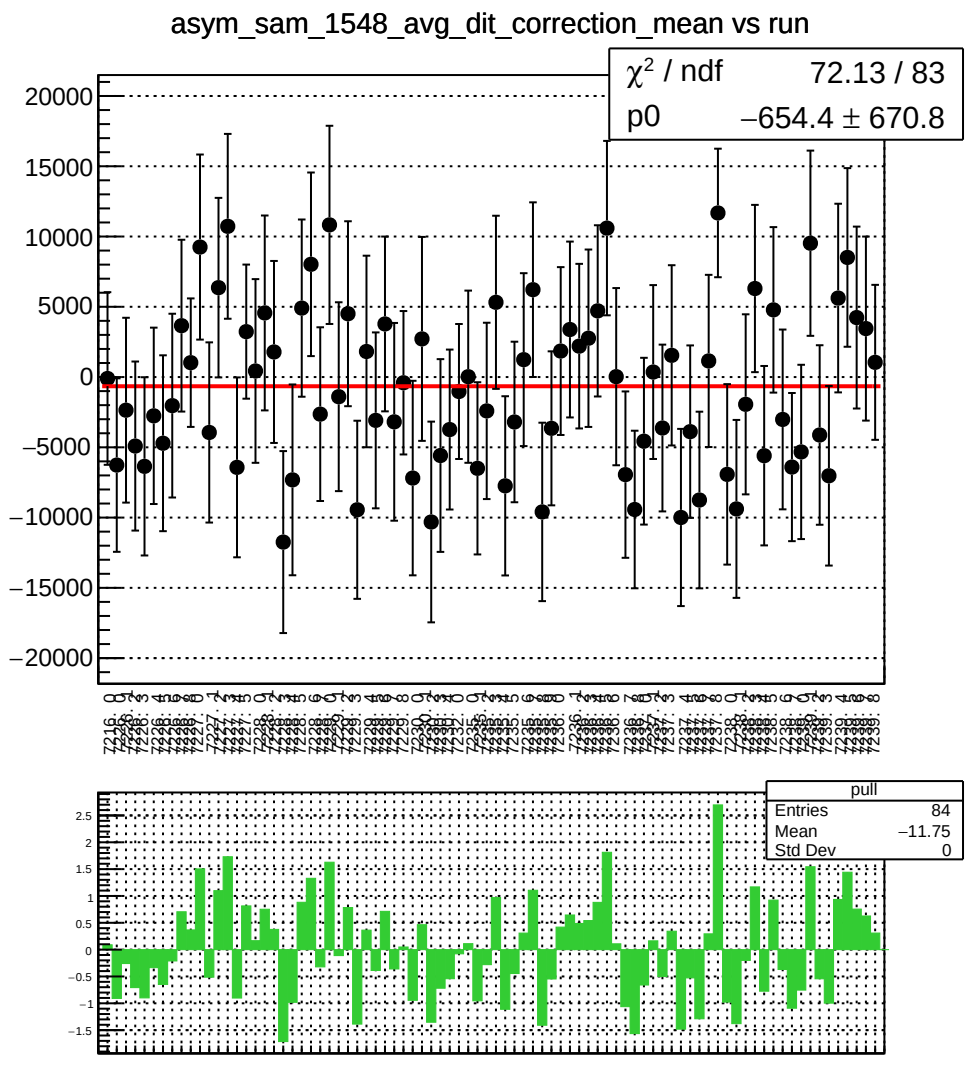

pull1D
Entries 84
Mean −0.006064
Std Dev 0.9393

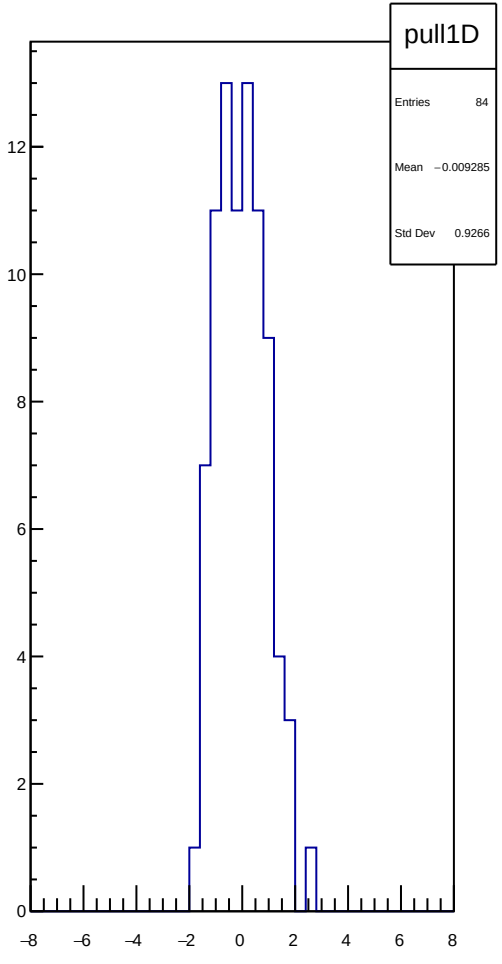

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 4443 / 83
p0 588.3 ± 0.4619
680
660
640
620
600
580
560
540
520
500

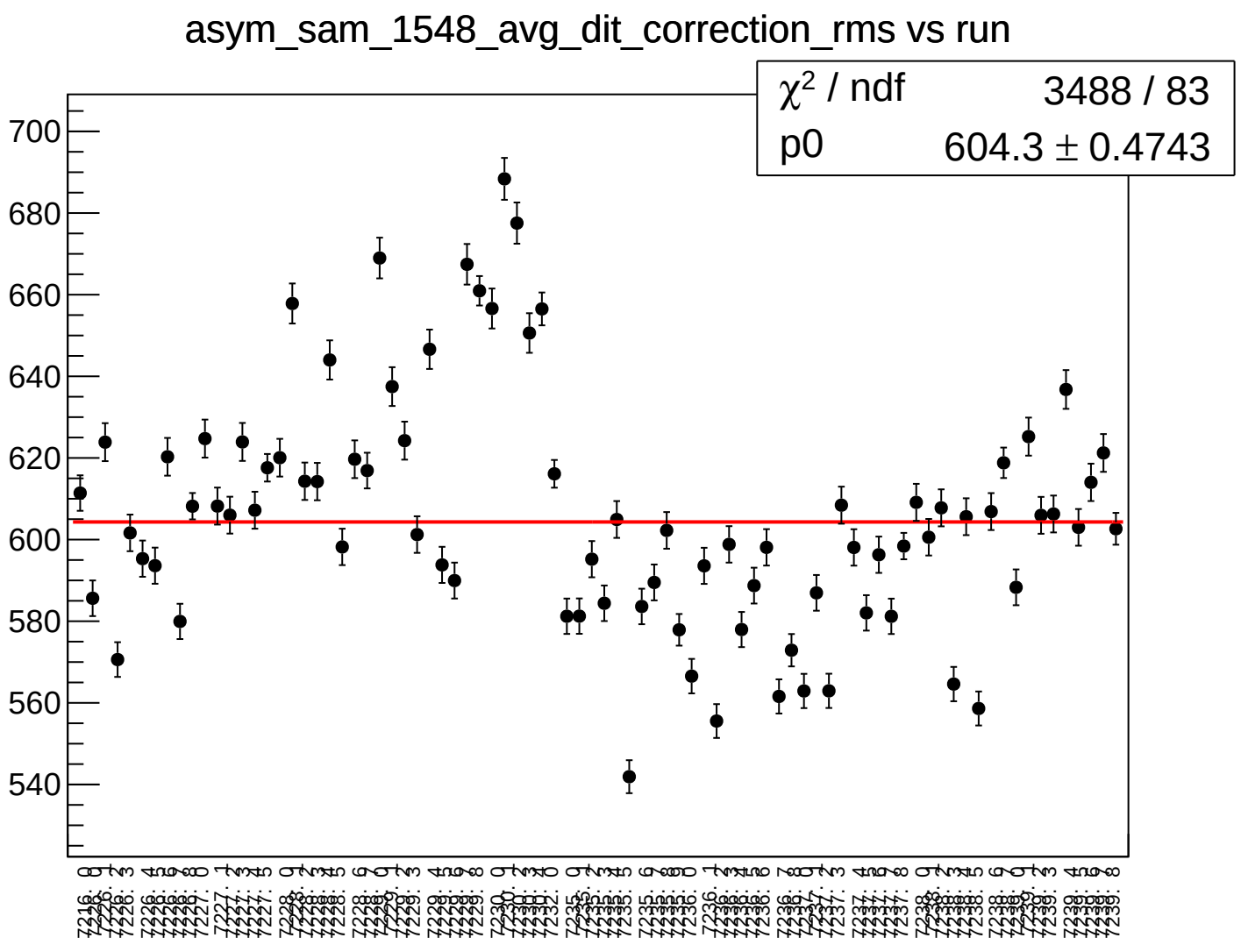

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 80.73 / 83
p0 −334.5 ± 115.2
pull
Entries 84
Mean 737.1
Std Dev 0

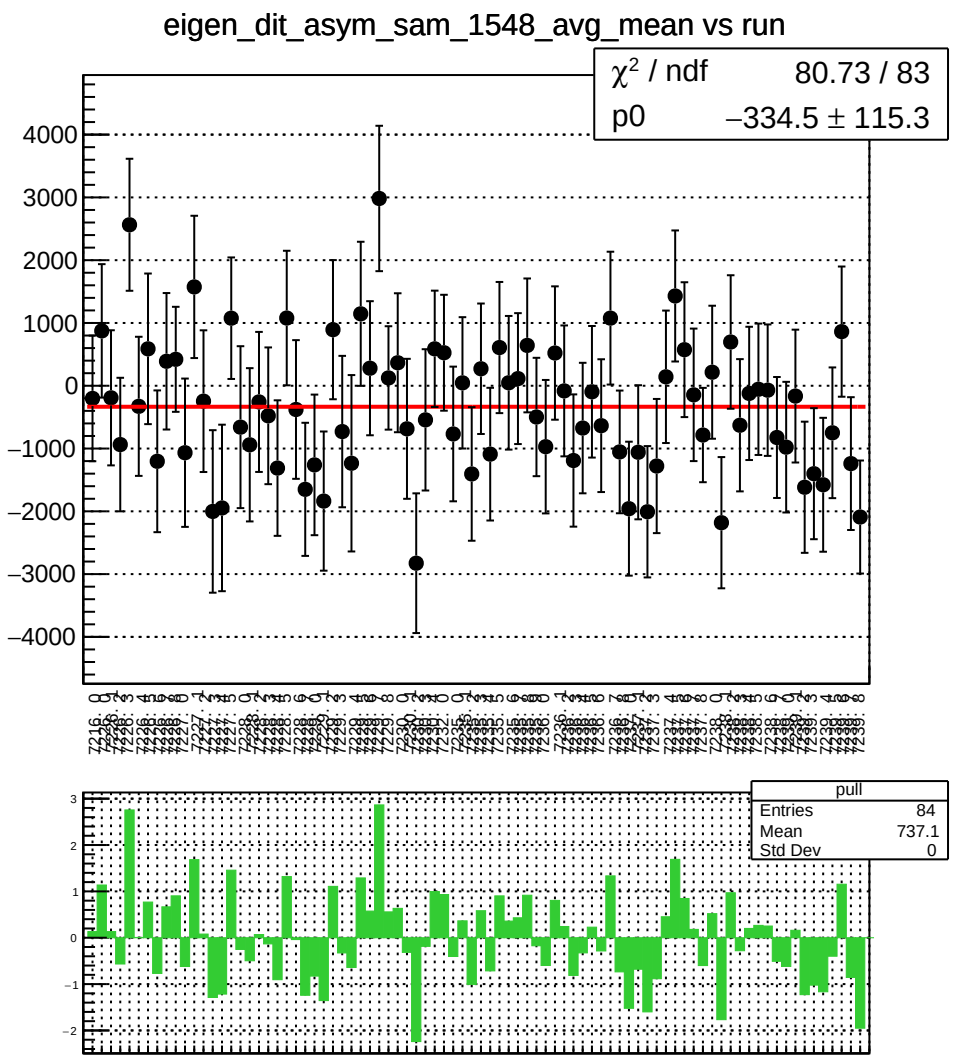

pull1D
Entries 84
Mean −0.007418
Std Dev 0.9803

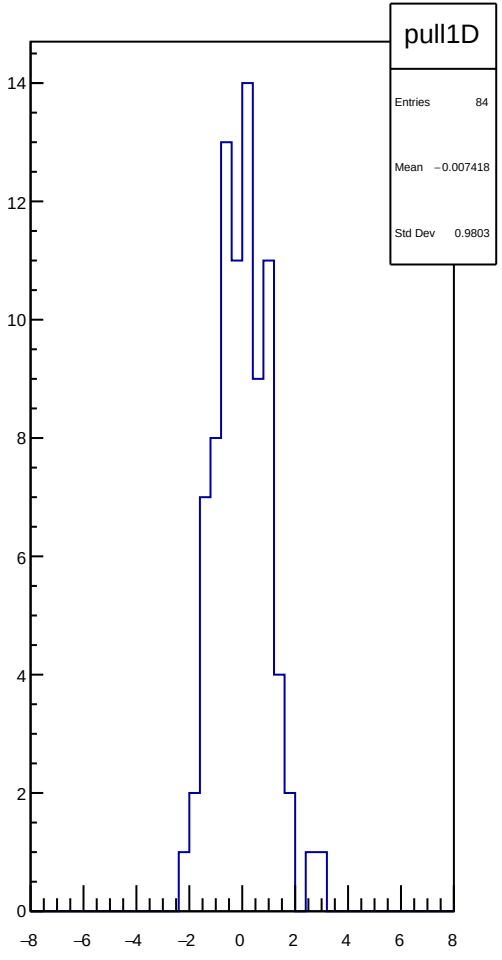

dit_asym_sam_1548_avg_rms vs run
χ^2 / ndf 6449 / 83
p0 103.7 ± 0.08149
135
130
125
120
115
110
105
100
95

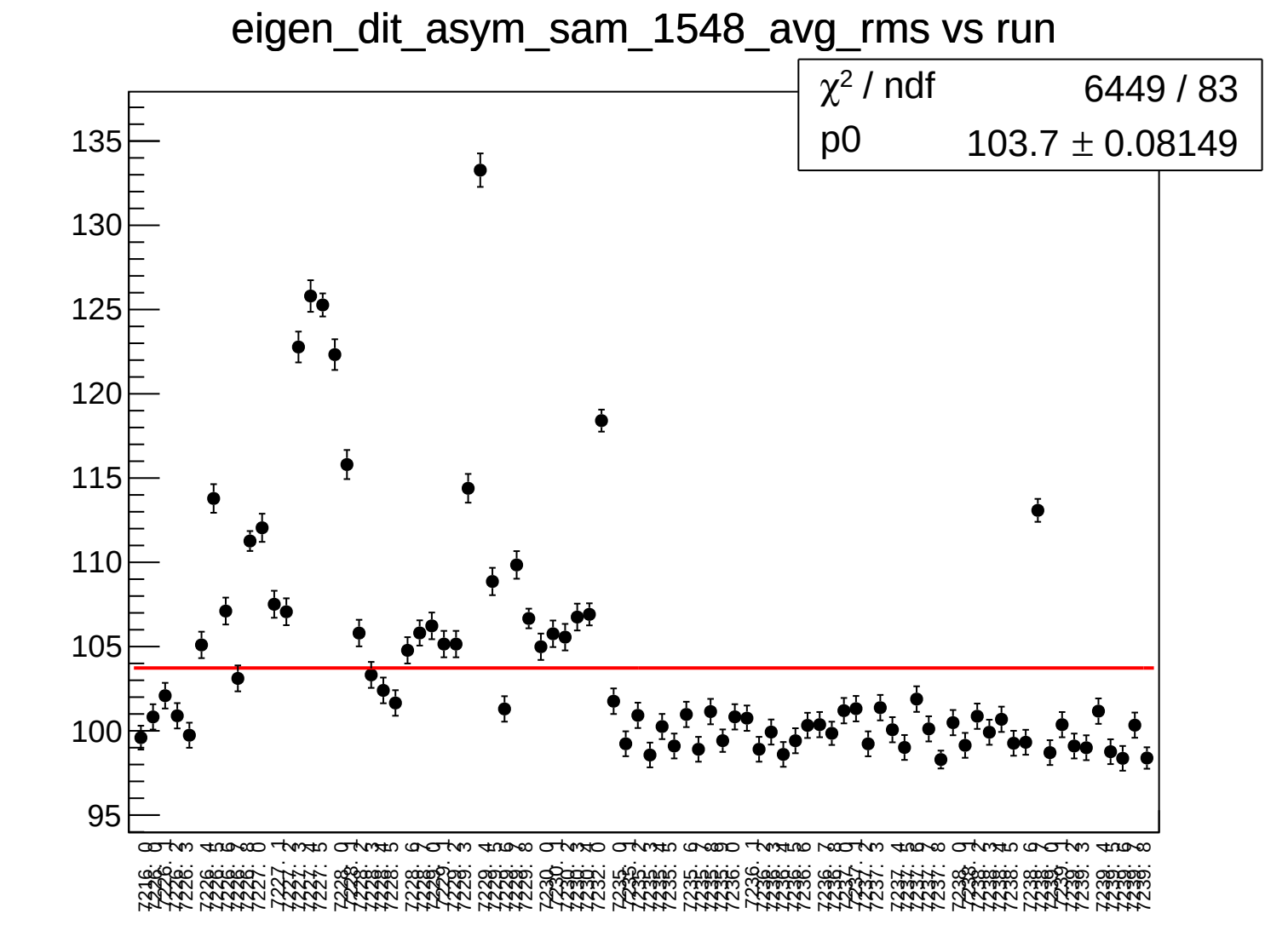

asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 72.13 / 83
p0 −654.4 ± 670.8
pull
Entries 84
Mean −11.75
Std Dev 0

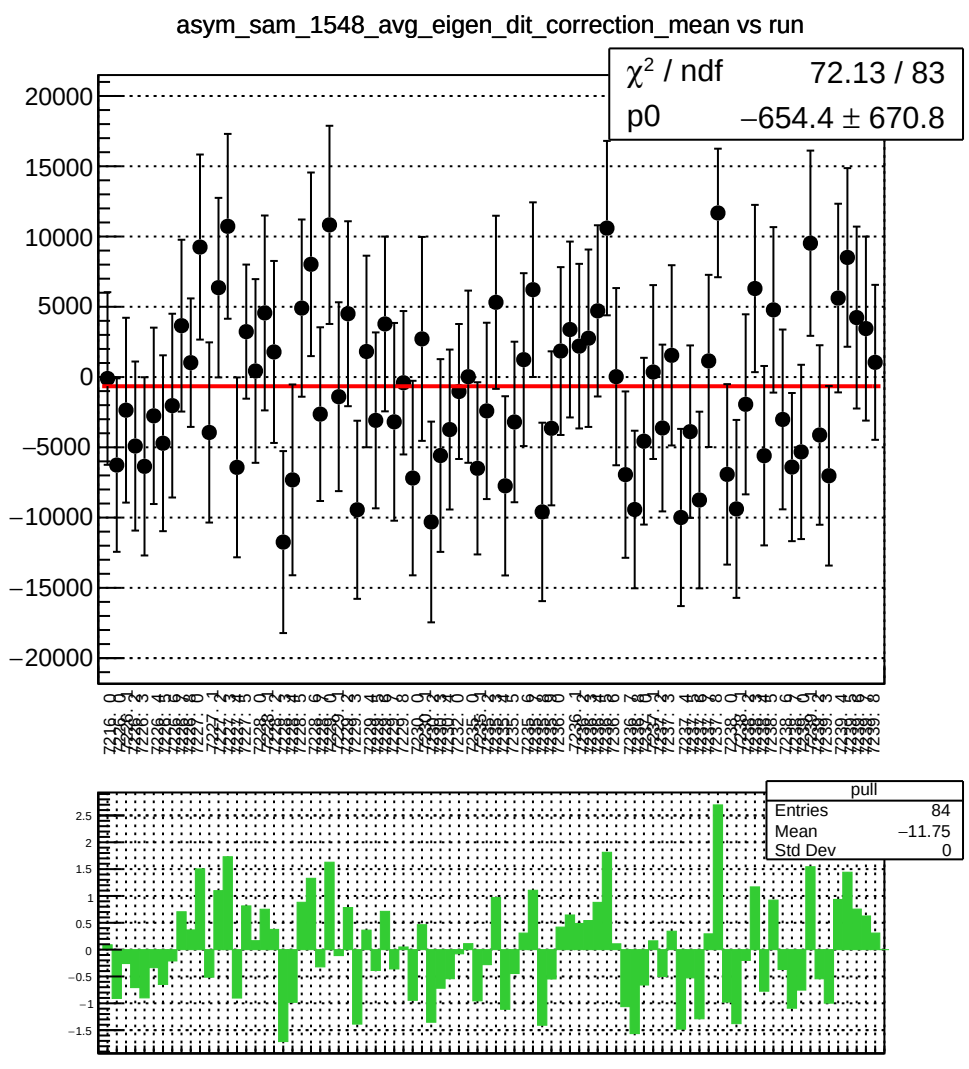

pull1D
Entries 84
Mean −0.009285
Std Dev 0.9266

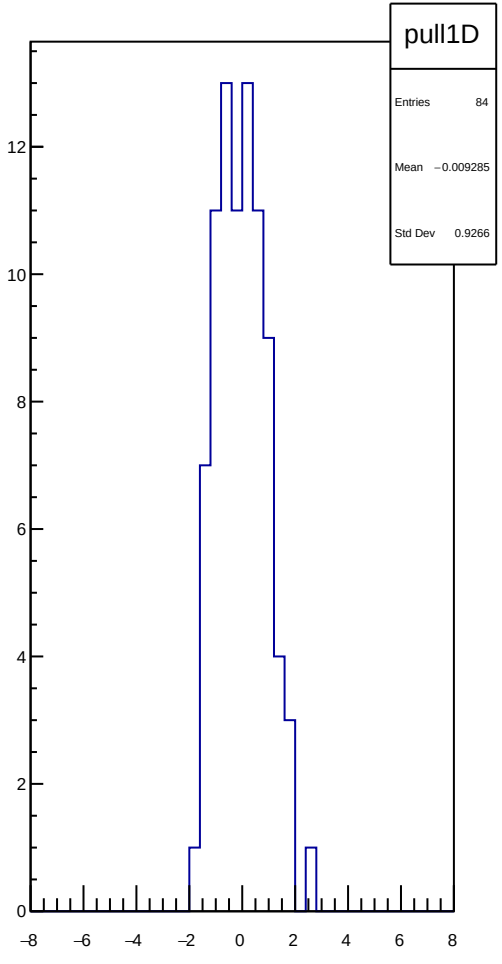

asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 3488 / 83
p0 604.3 ± 0.4743
700
680
660
640
620
600
580
560
540

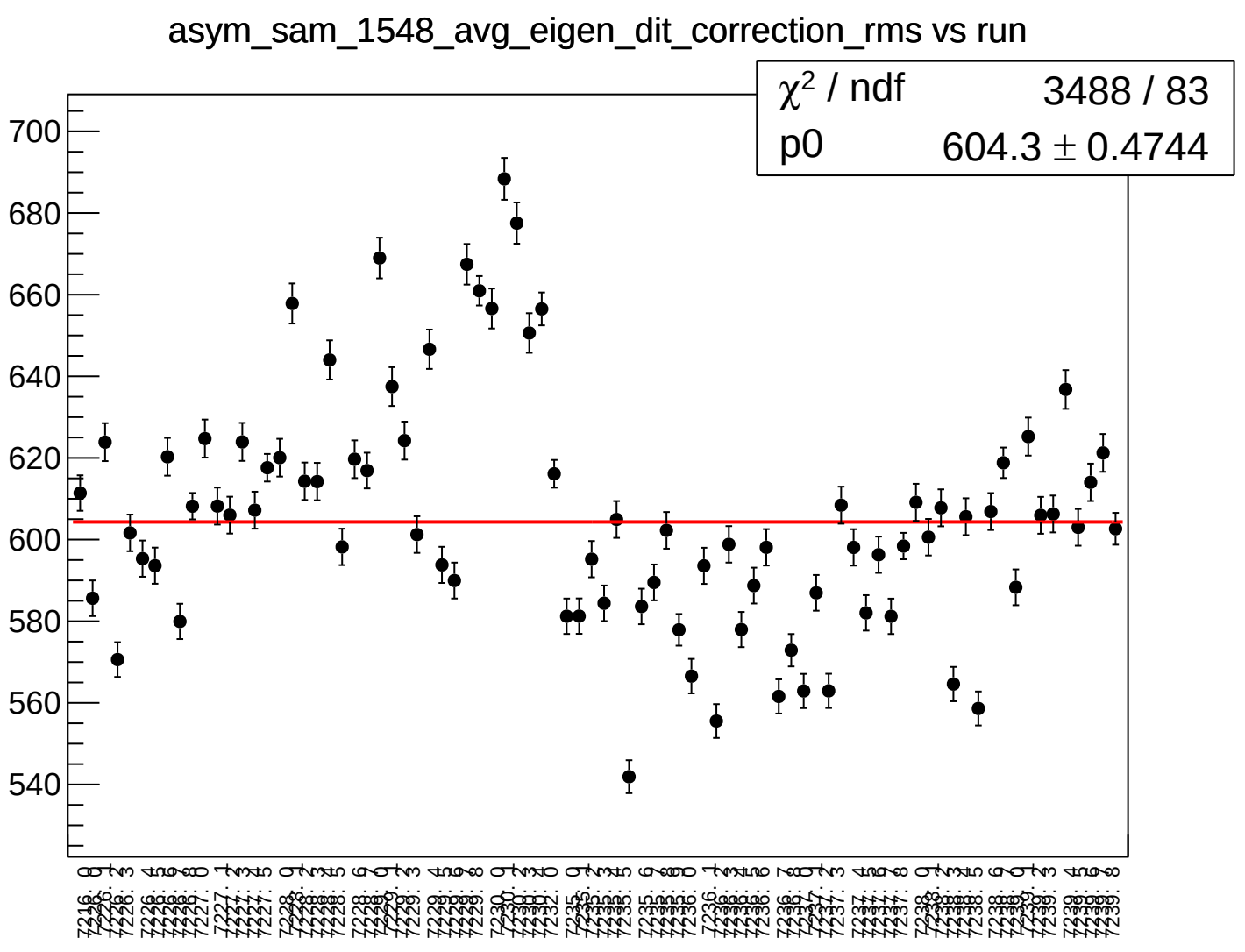

eigen_dit_asym_sam_1548_avg_mean vs run
χ² / ndf 80.73 / 83
p0 −334.5 ± 115.3
pull
Entries 84
Mean 737.1
Std Dev 0

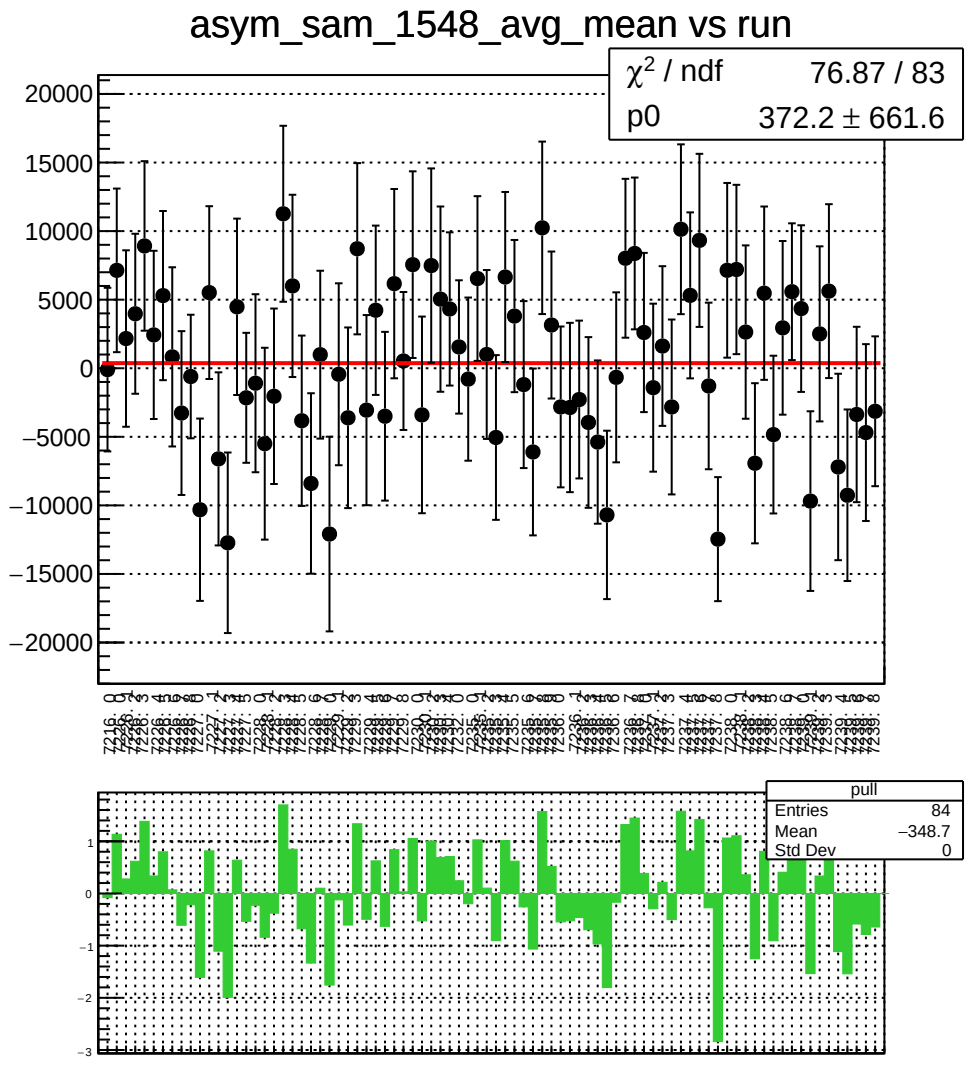

pull1D
Entries 84
Mean −0.007418
Std Dev 0.9803

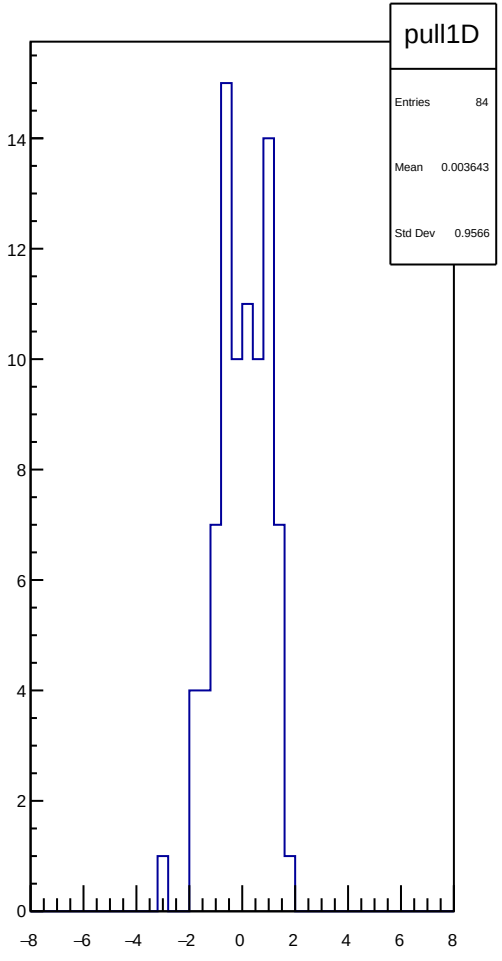

eigen_dit_asym_sam_1548_avg_rms vs run
χ^2 / ndf 6449 / 83
p0 103.7 ± 0.08149
135
130
125
120
115
110
105
100
95

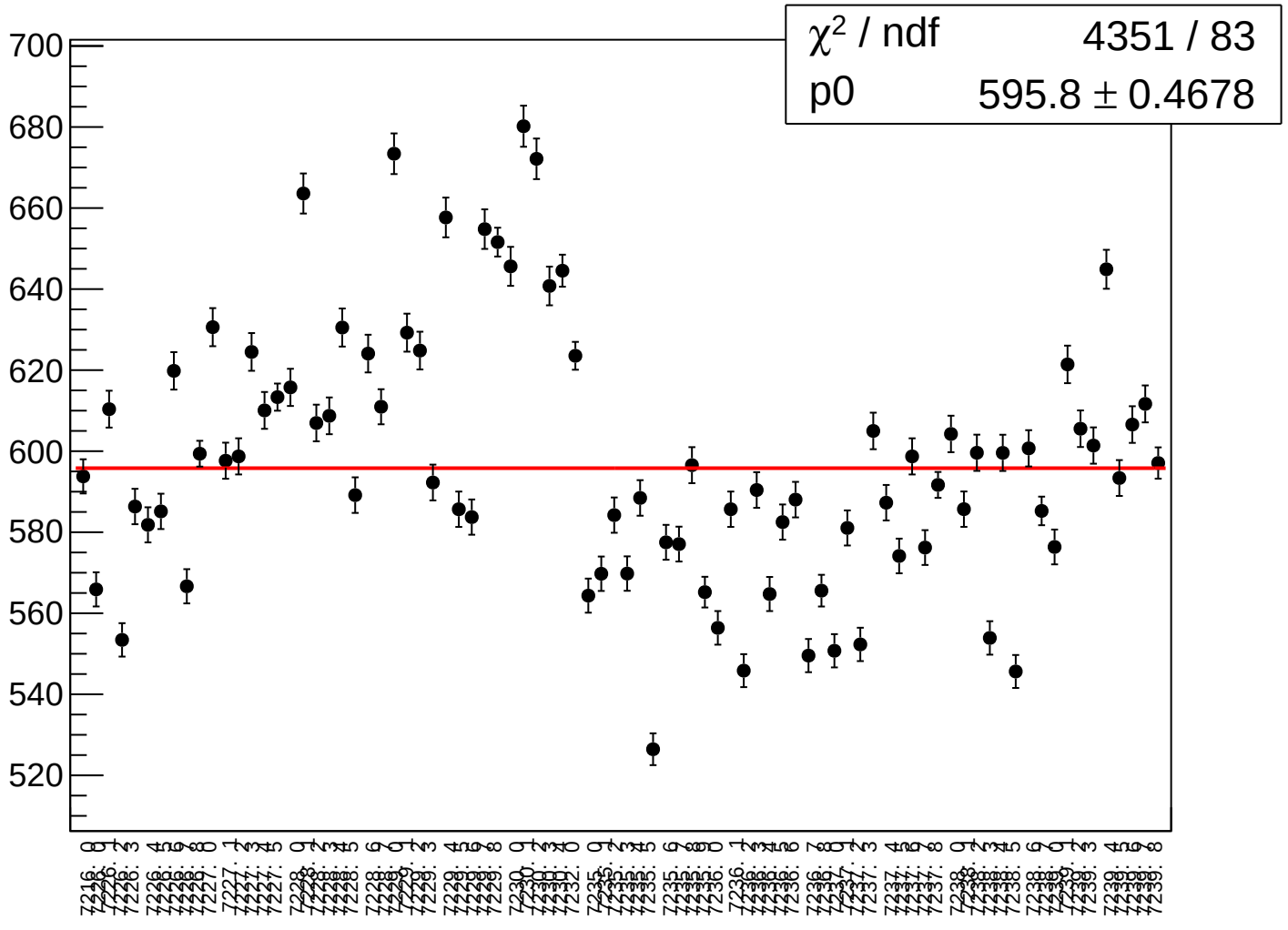

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 72.13 / 83
p0 −654.4 ± 670.8
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 84
Mean −11.75
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

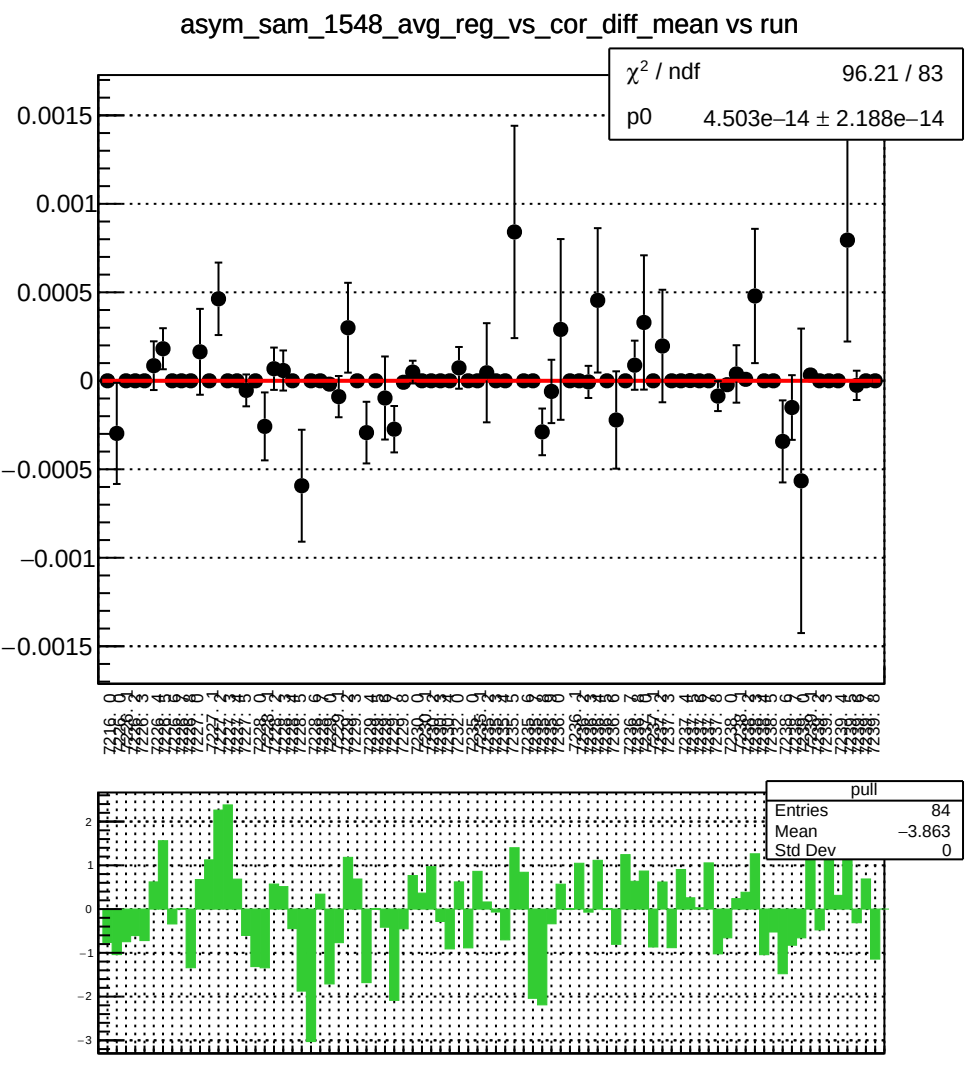

pull1D
Entries 84
Mean −0.009285
Std Dev 0.9266
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

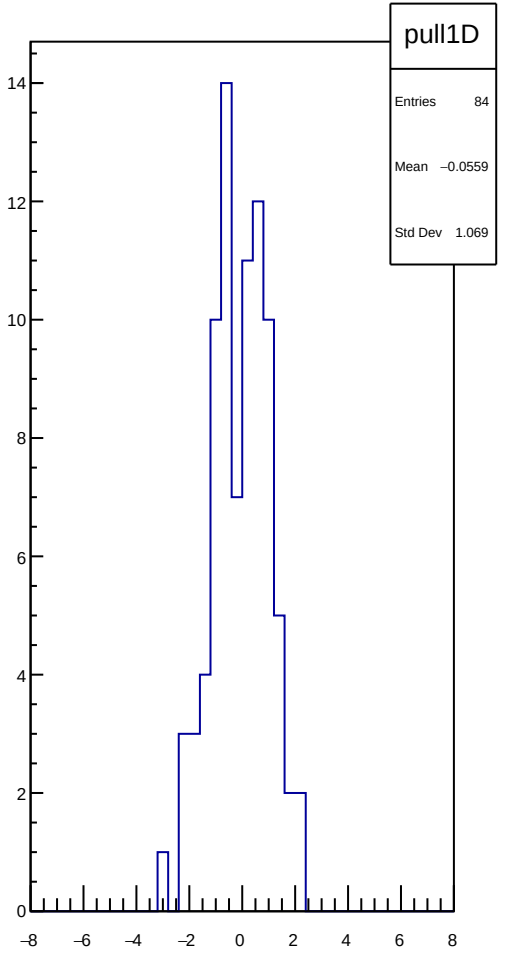

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ^2 / ndf 3488 / 83
p0 604.3 ± 0.4744
700
680
660
640
620
600
580
560
540

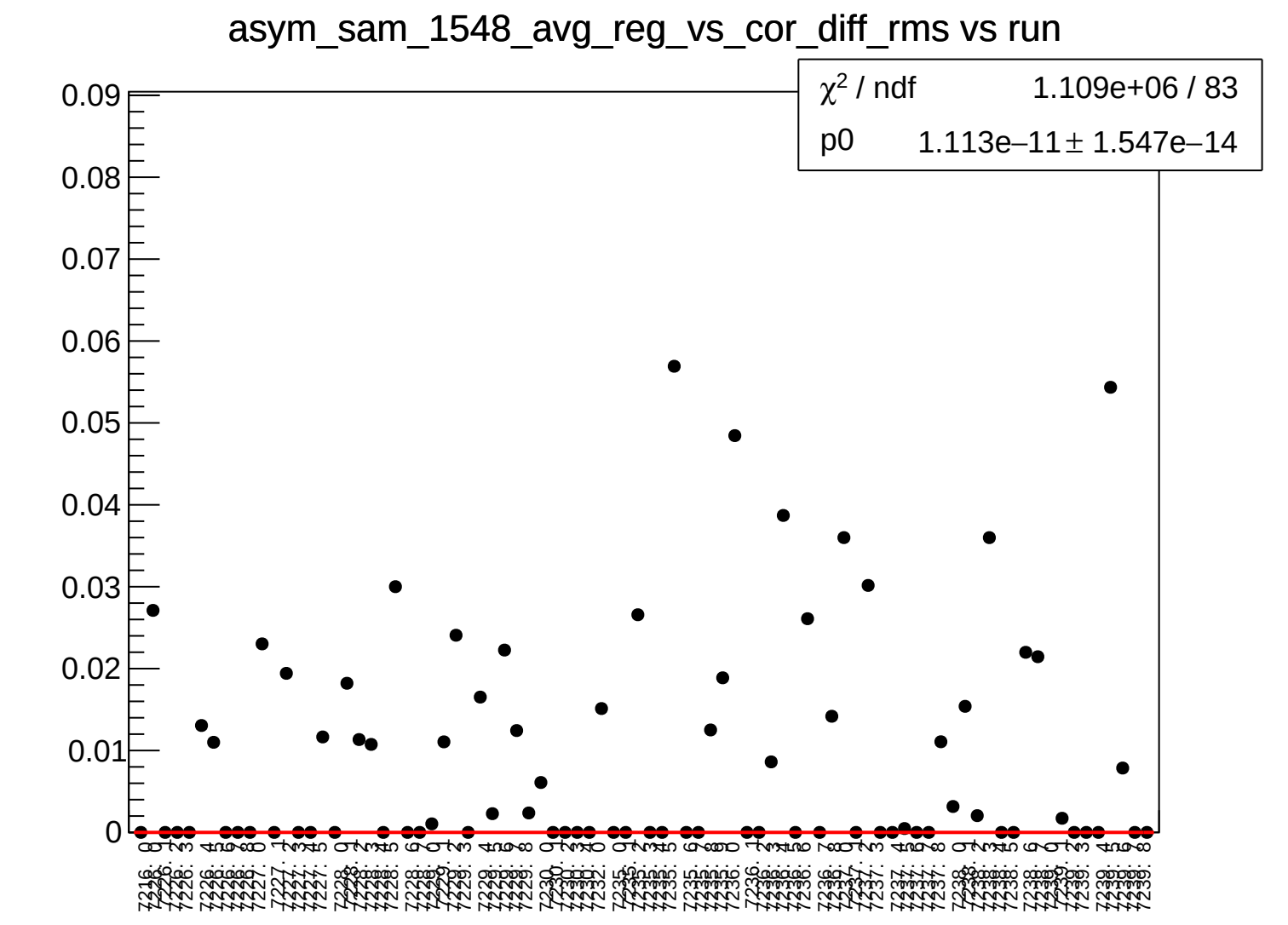

asym_sam_1548_avg_mean vs run
χ² / ndf 76.87 / 83
p0 372.2 ± 661.6
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 84
Mean −348.7
Std Dev 0
1
0
−1
−2
−3

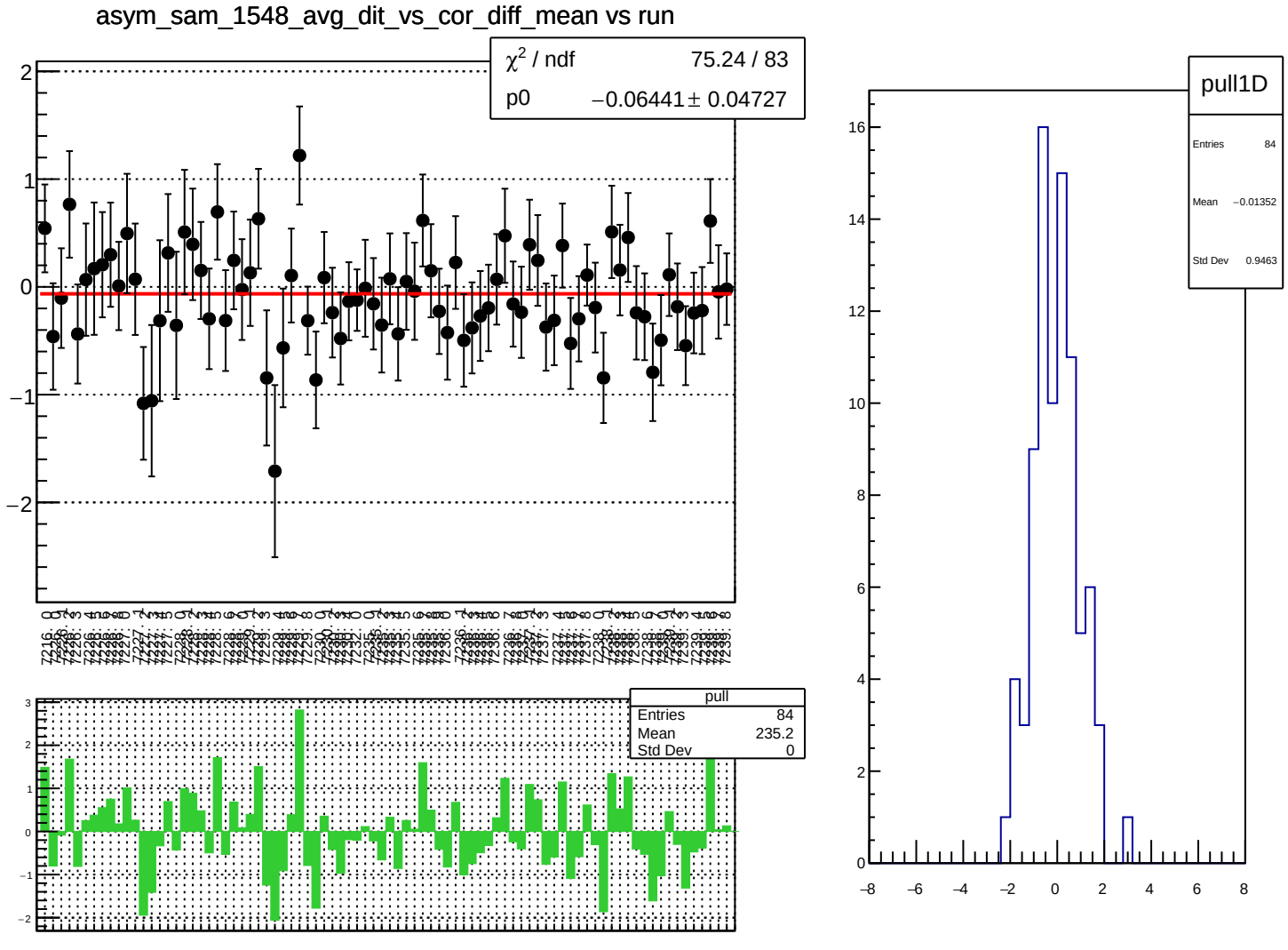

pull1D
Entries 84
Mean 0.003643
Std Dev 0.9566
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

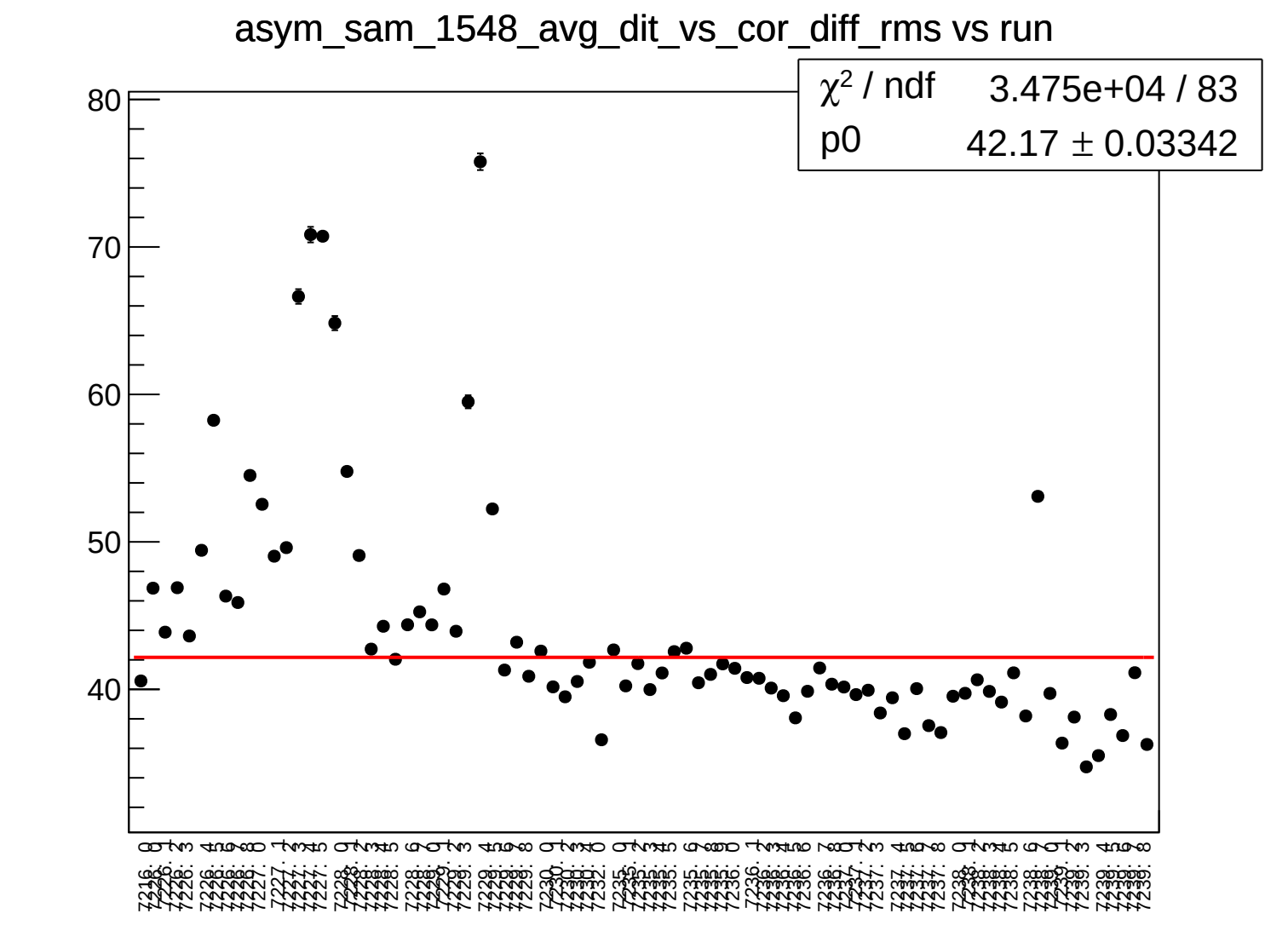

asym_sam_1548_avg_rms vs run
χ² / ndf 4351 / 83
p0 595.8 ± 0.4678
700
680
660
640
620
600
580
560
540
520

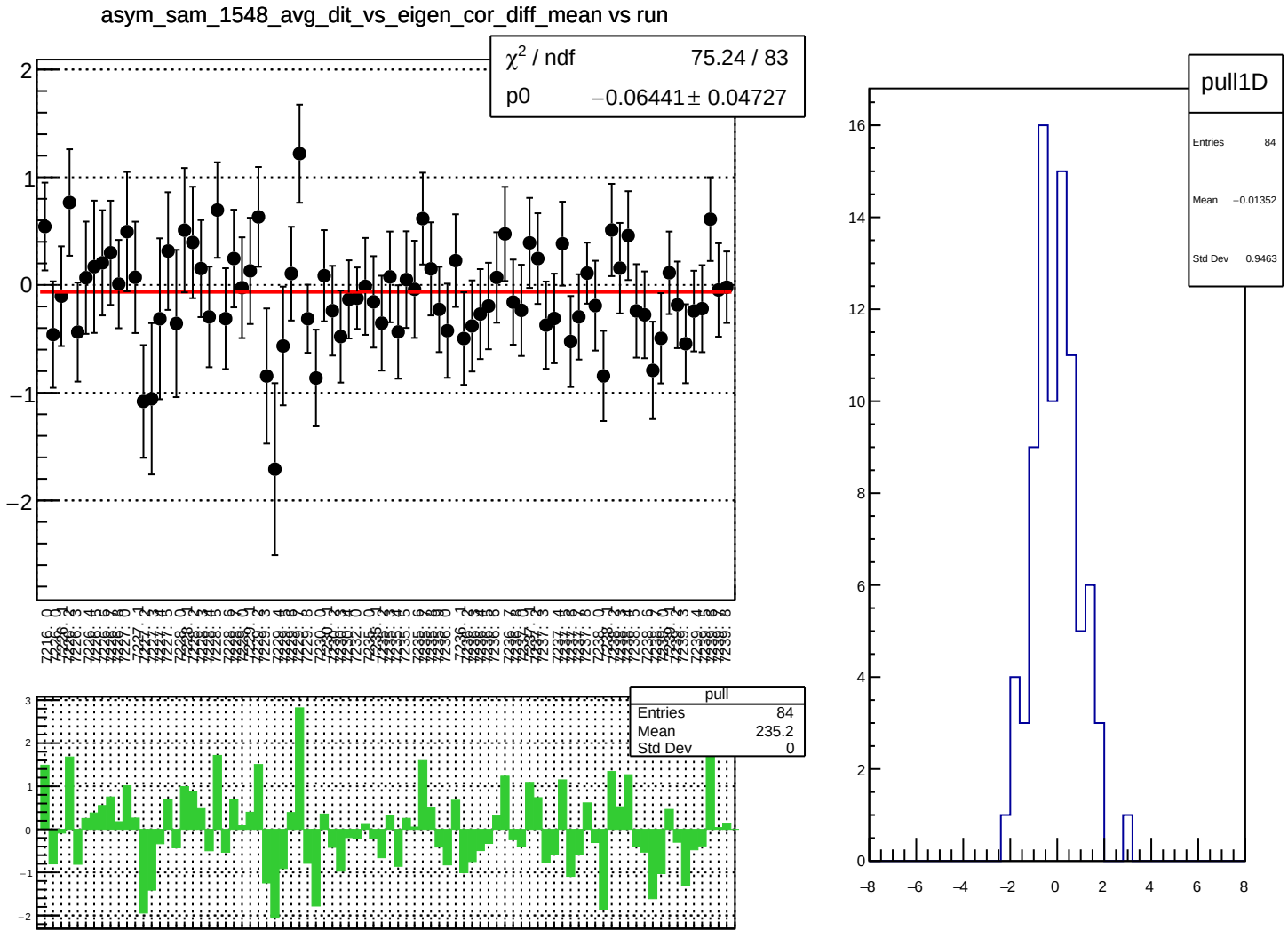

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 96.21 / 83
p0 4.503e−14 ± 2.188e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 84
Mean −3.863
Std Dev 0
2
1
0
−1
−2
−3

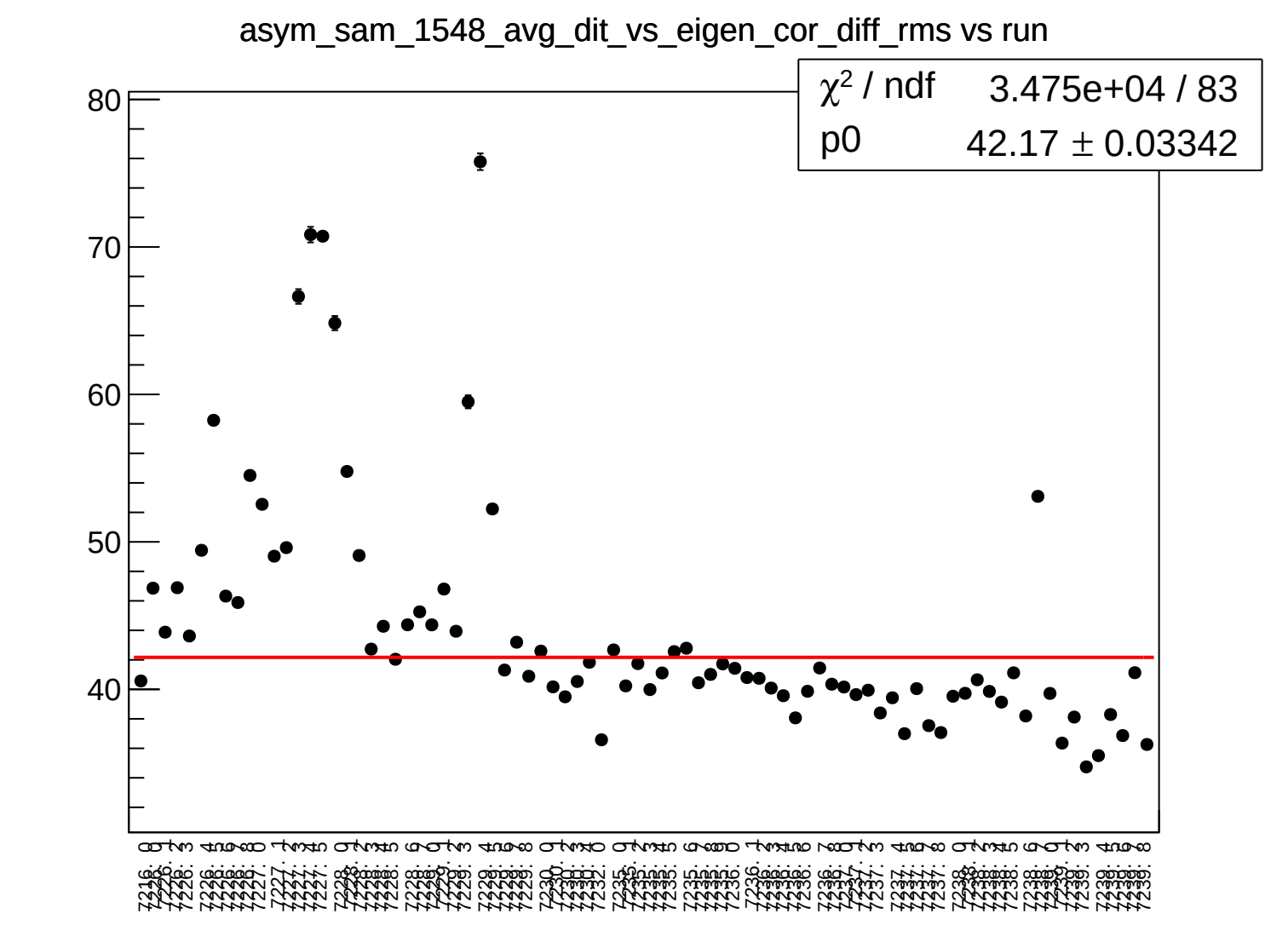

pull1D
Entries 84
Mean −0.0559
Std Dev 1.069
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

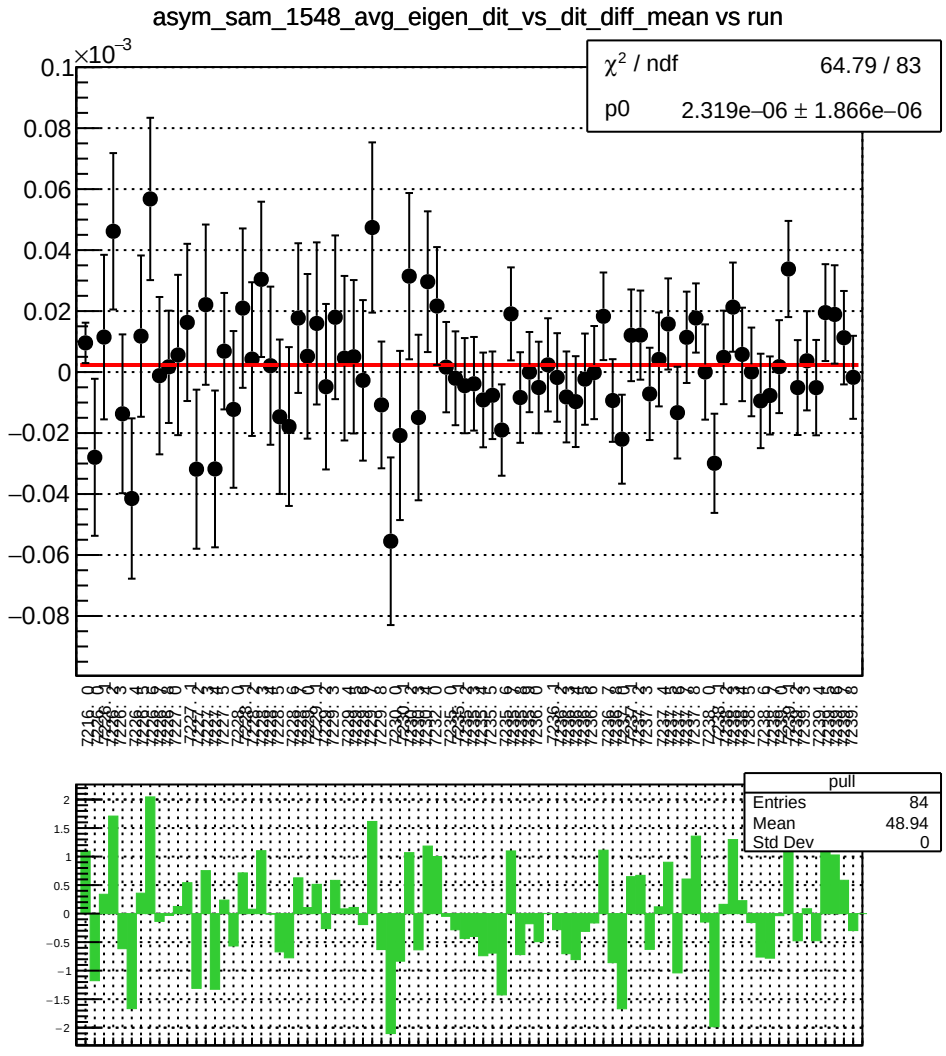

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.109e+06 / 83
p0 1.113e−11 ± 1.547e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

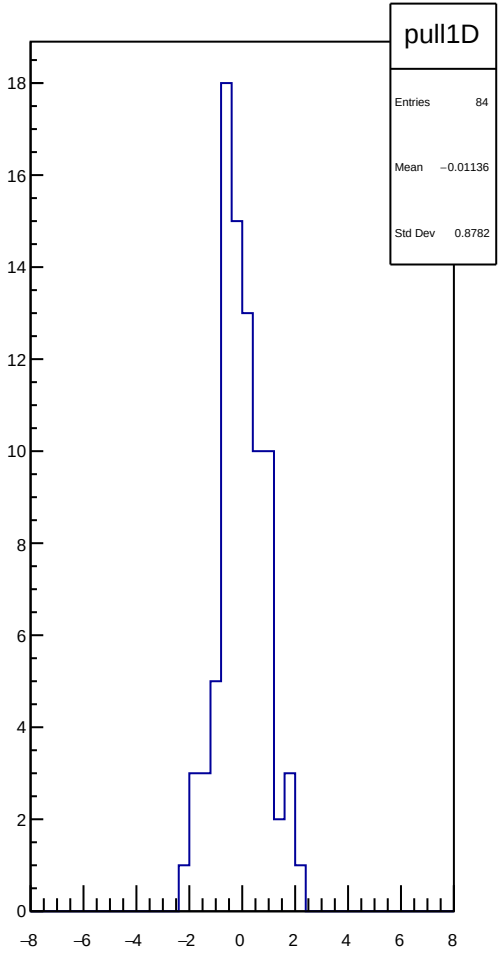

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 75.24 / 83
p0 −0.06441 ± 0.04727
pull
Entries 84
Mean 235.2
Std Dev 0
pull1D
Entries 84
Mean −0.01352
Std Dev 0.9463

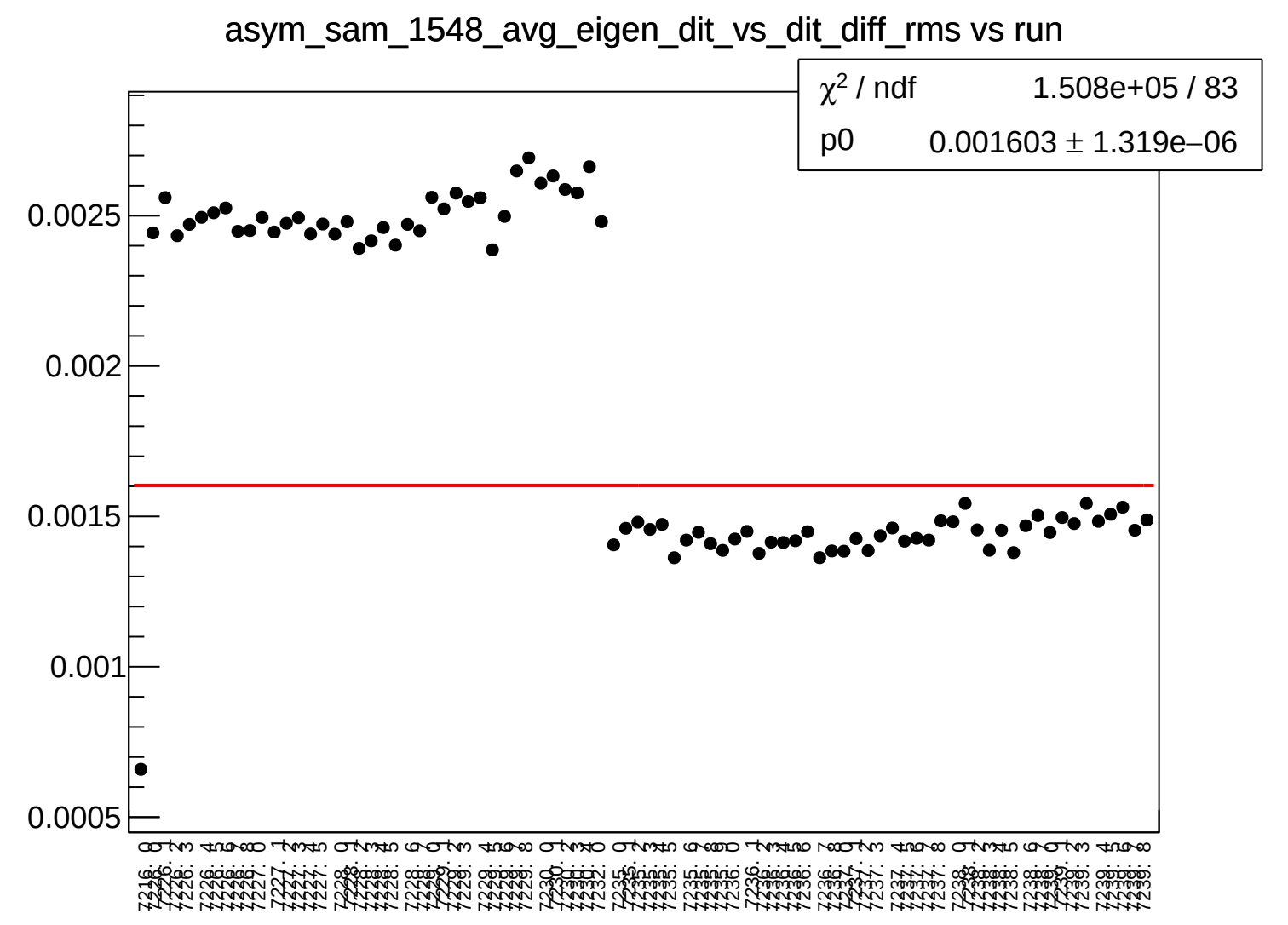

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.475e+04 / 83
p0 42.17 ± 0.03342
80
70
60
50
40

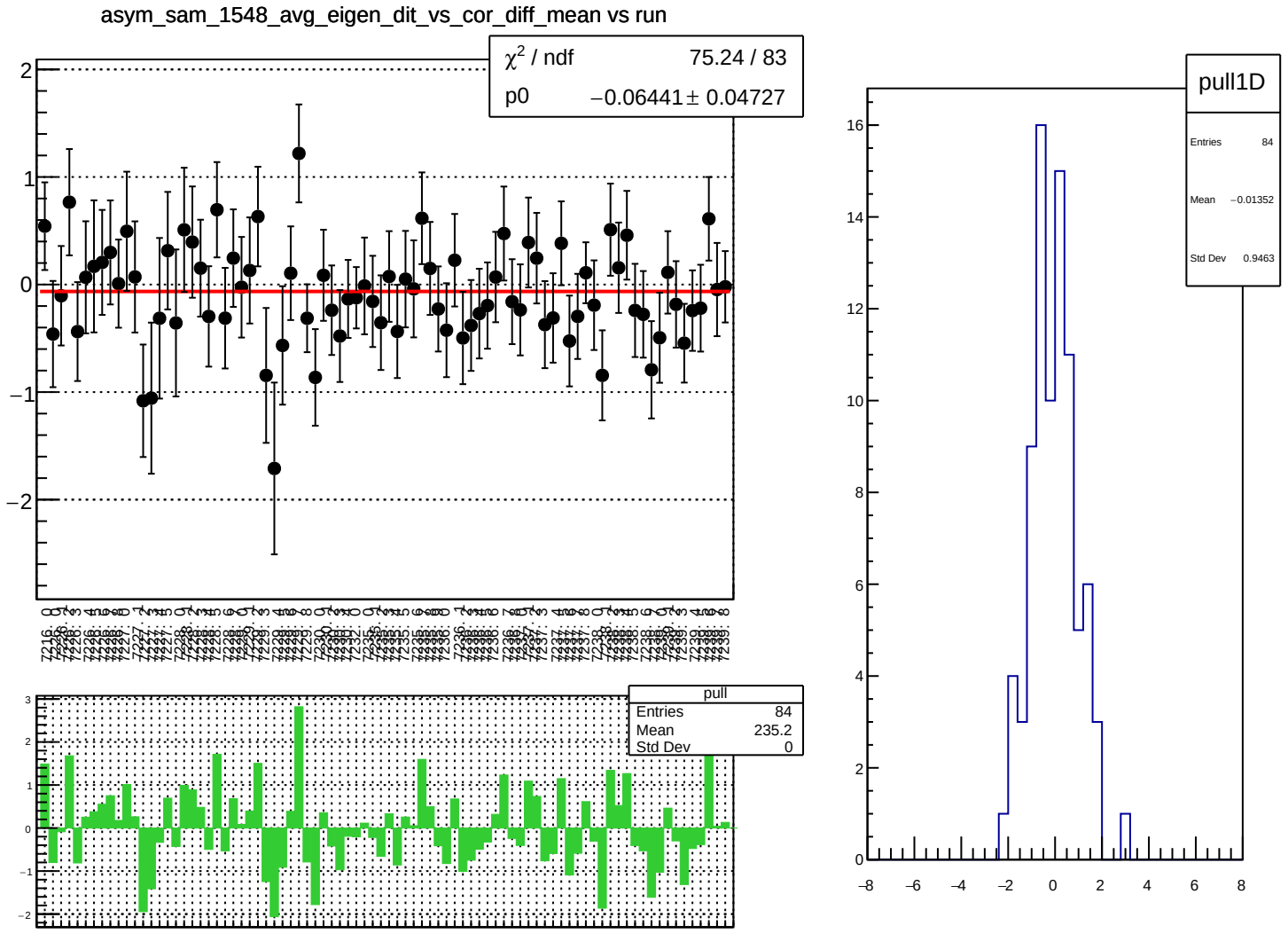

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.24 / 83
p0 −0.06441 ± 0.04727
pull
Entries 84
Mean 235.2
Std Dev 0
pull1D
Entries 84
Mean −0.01352
Std Dev 0.9463

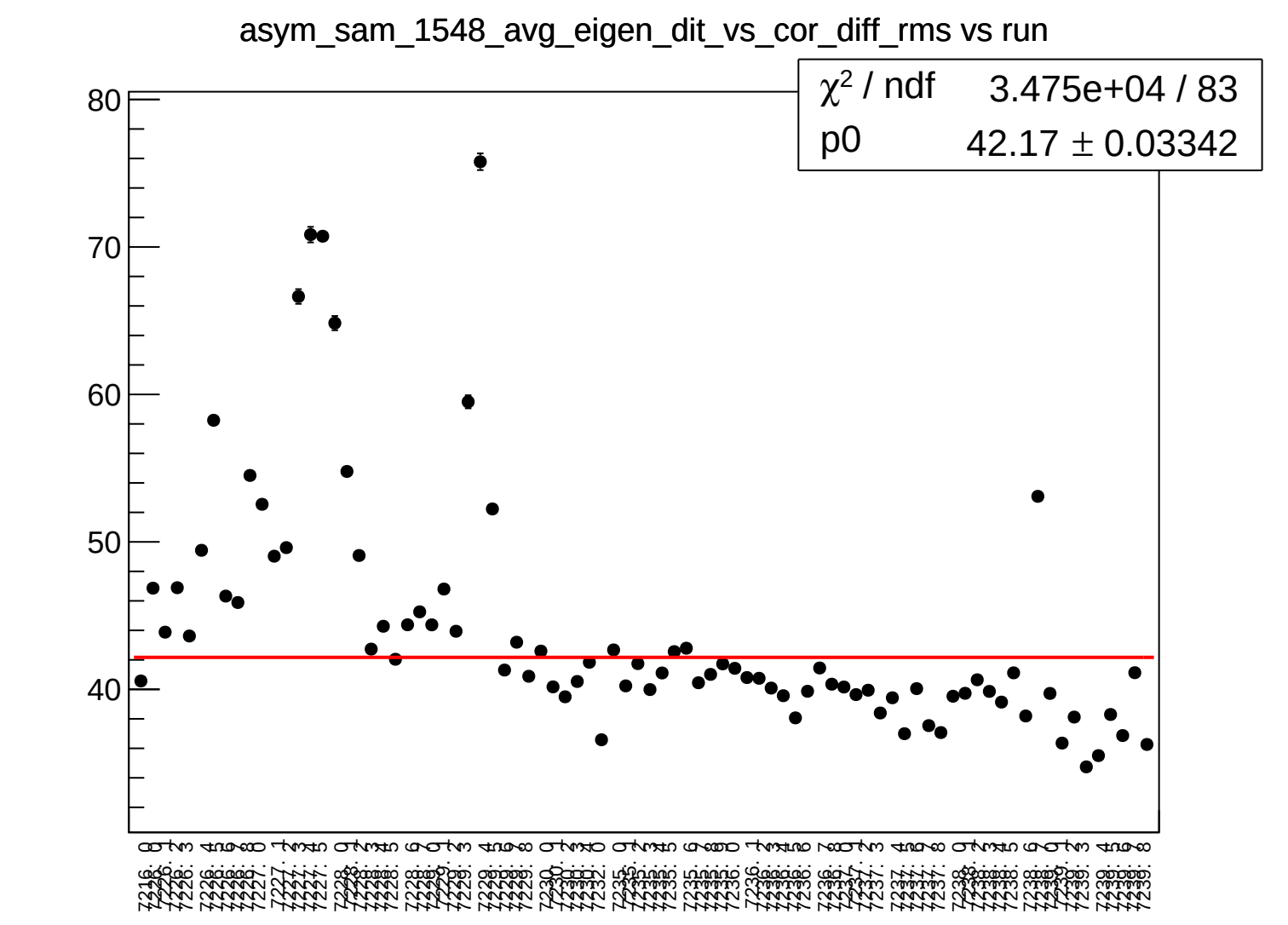

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.475e+04 / 83
p0 42.17 ± 0.03342
80
70
60
50
40


asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 64.79 / 83
p0 2.319e−06 ± 1.866e−06
pull
Entries 84
Mean 48.94
Std Dev 0

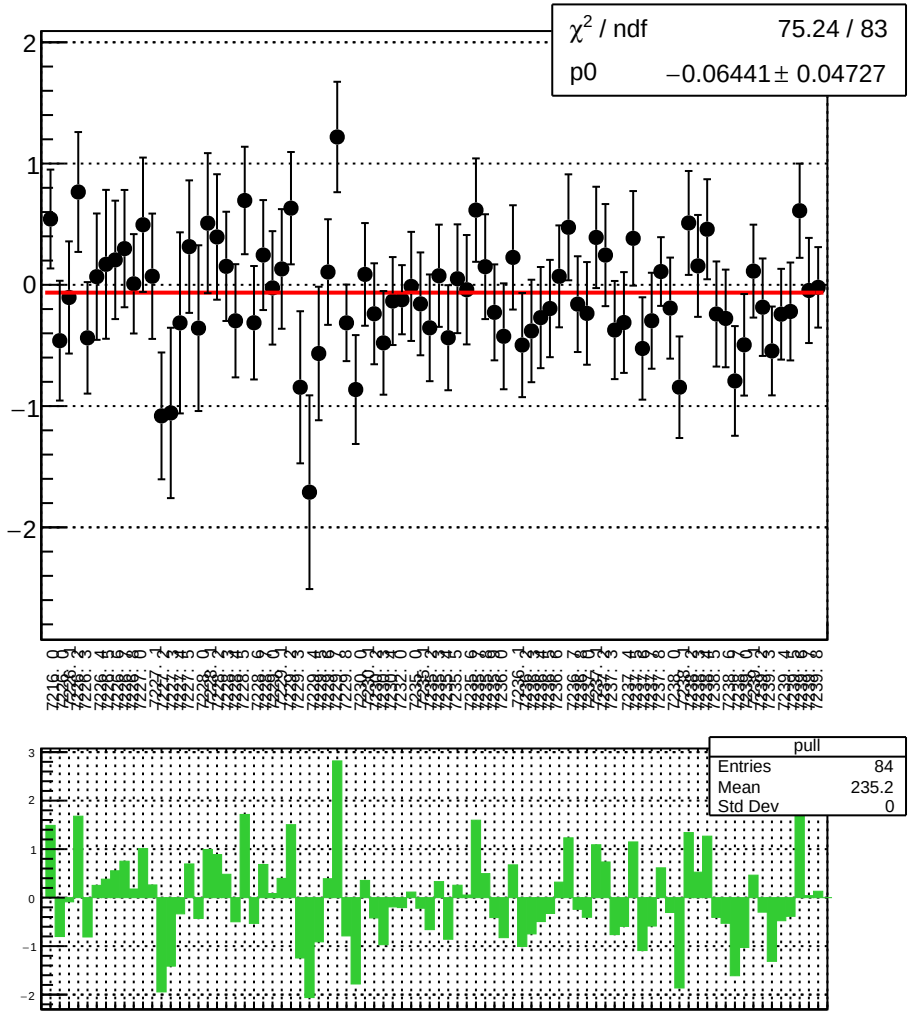

pull1D
Entries 84
Mean −0.01136
Std Dev 0.8782

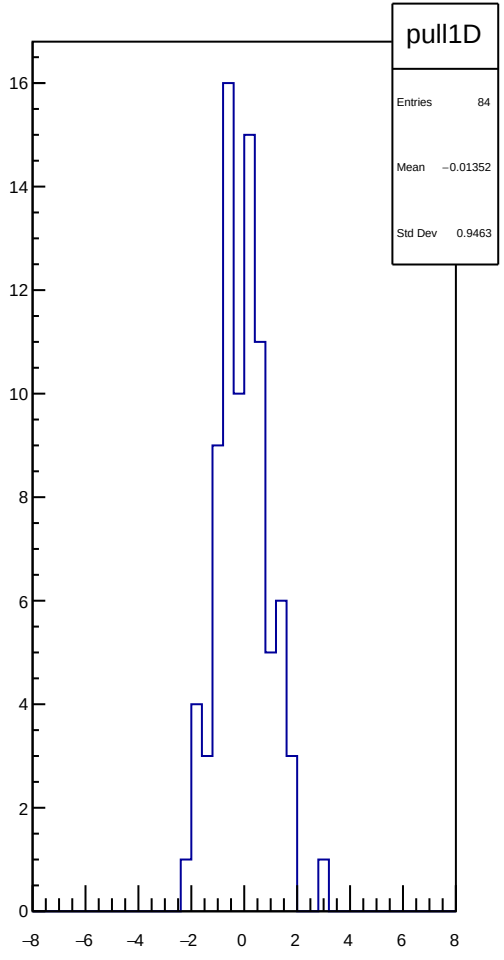

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.508e+05 / 83
p0 0.001603 ± 1.319e−06
0.0025
0.002
0.0015
0.001
0.0005

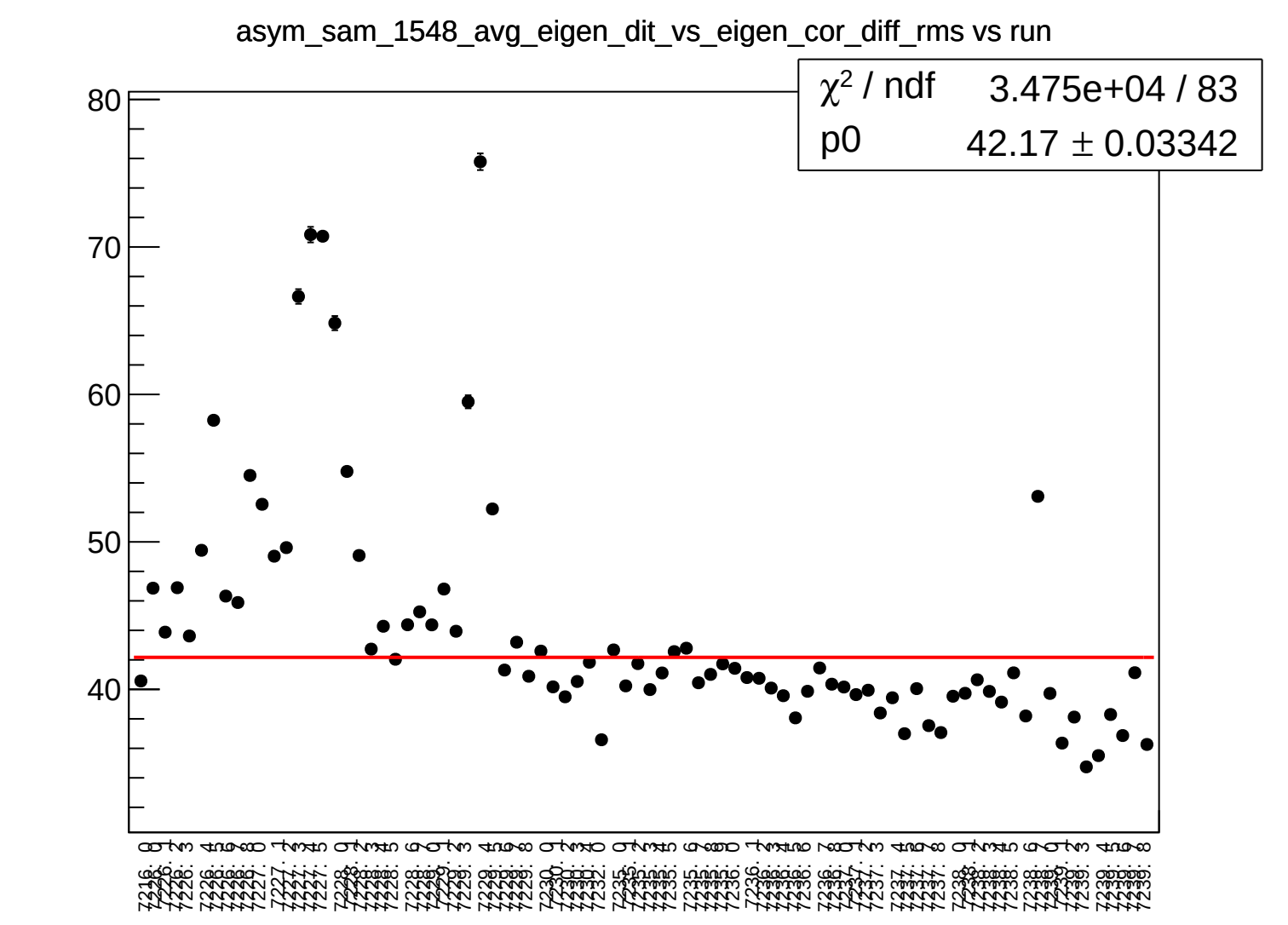

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.24 / 83
p0 −0.06441 ± 0.04727
pull
Entries 84
Mean 235.2
Std Dev 0
pull1D
Entries 84
Mean −0.01352
Std Dev 0.9463

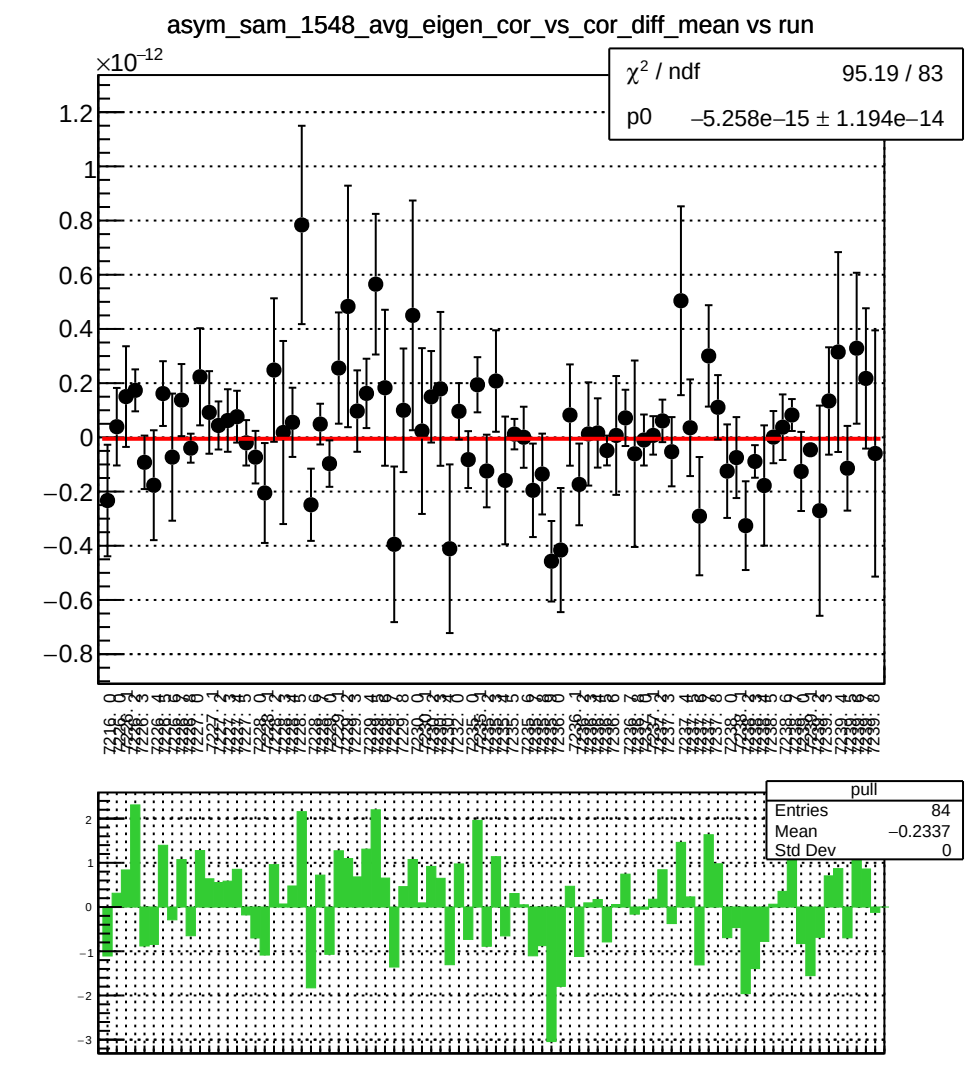

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.475e+04 / 83
p0 42.17 ± 0.03342
80
70
60
50
40

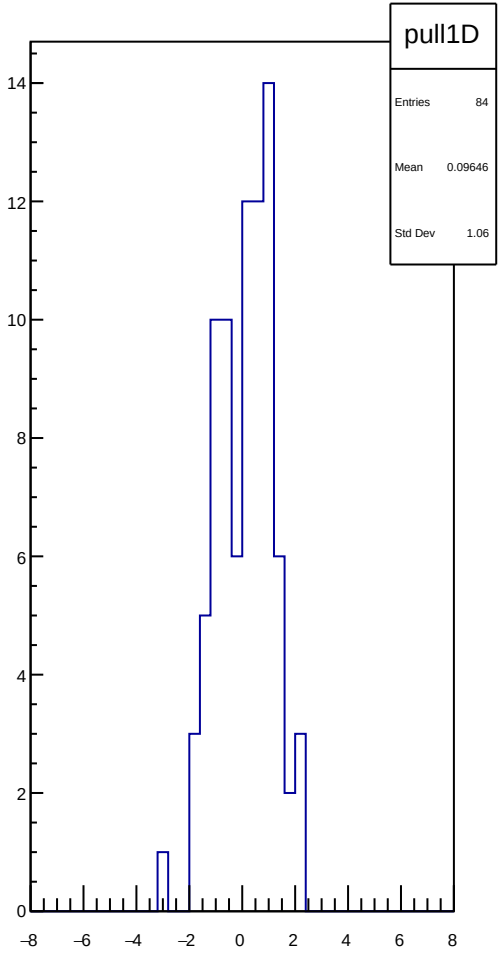
asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run

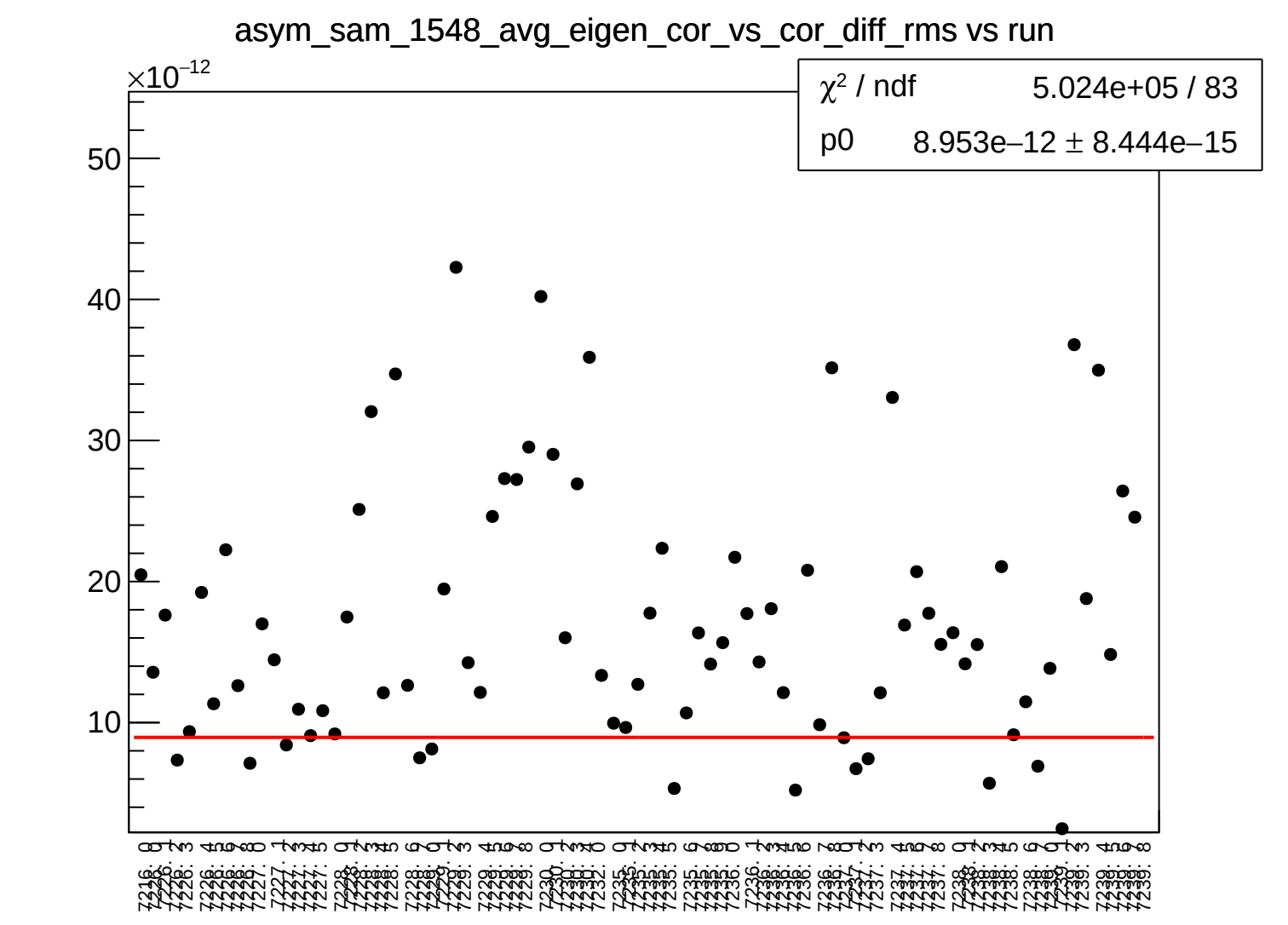


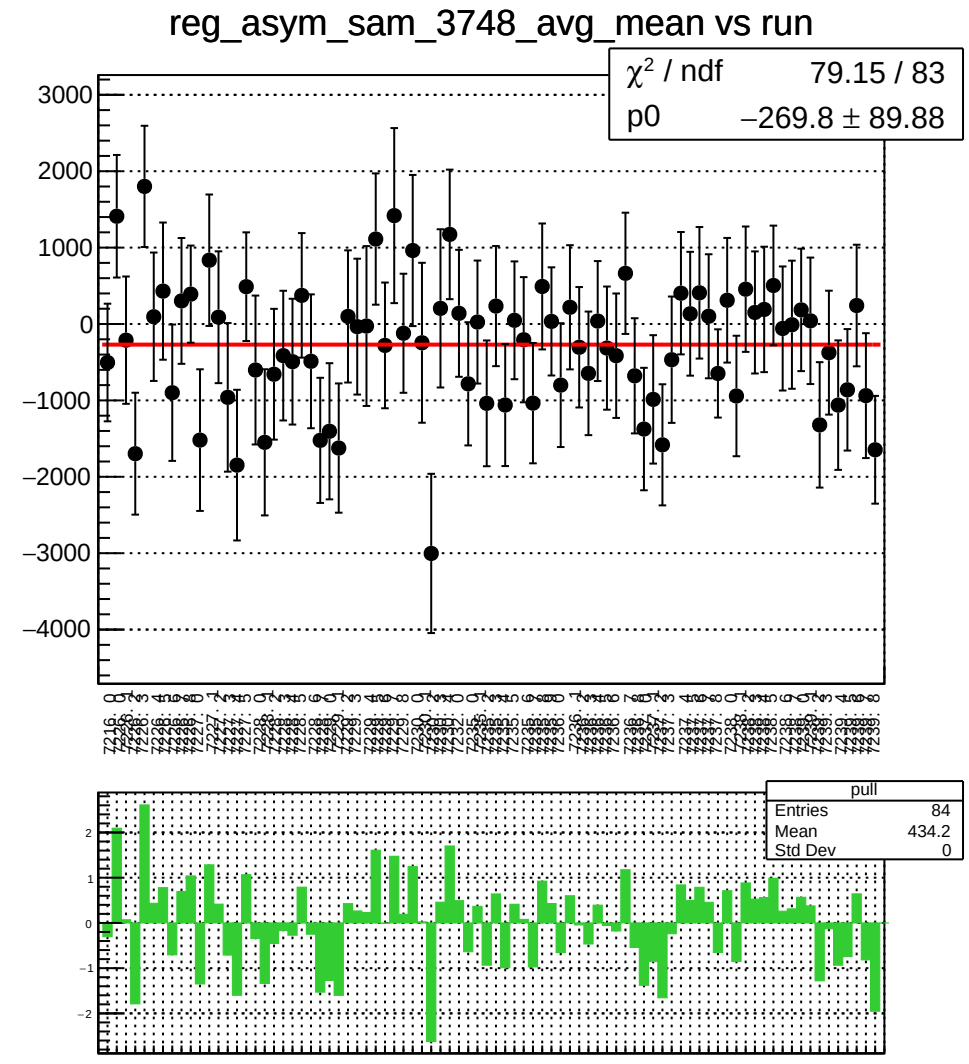


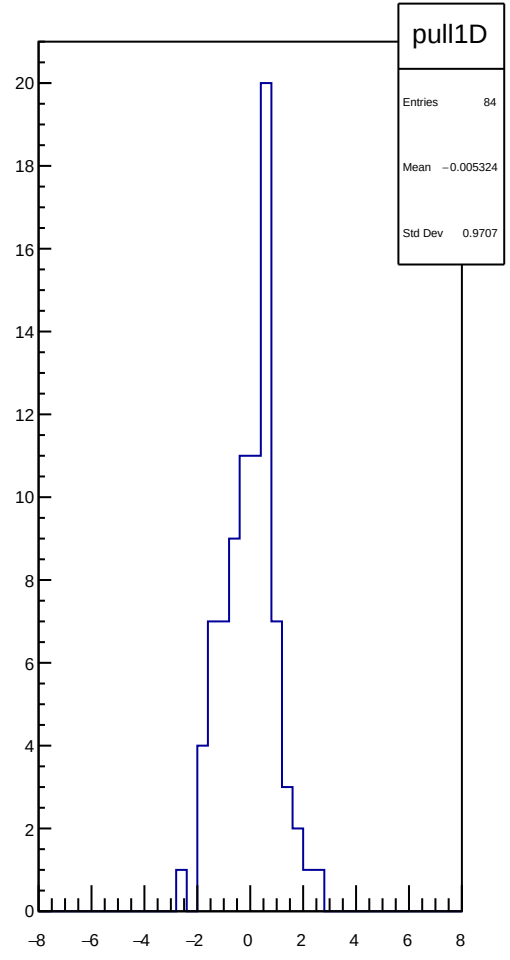

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.475e+04 / 83
p0 42.17 ± 0.03342
80
70
60
50
40

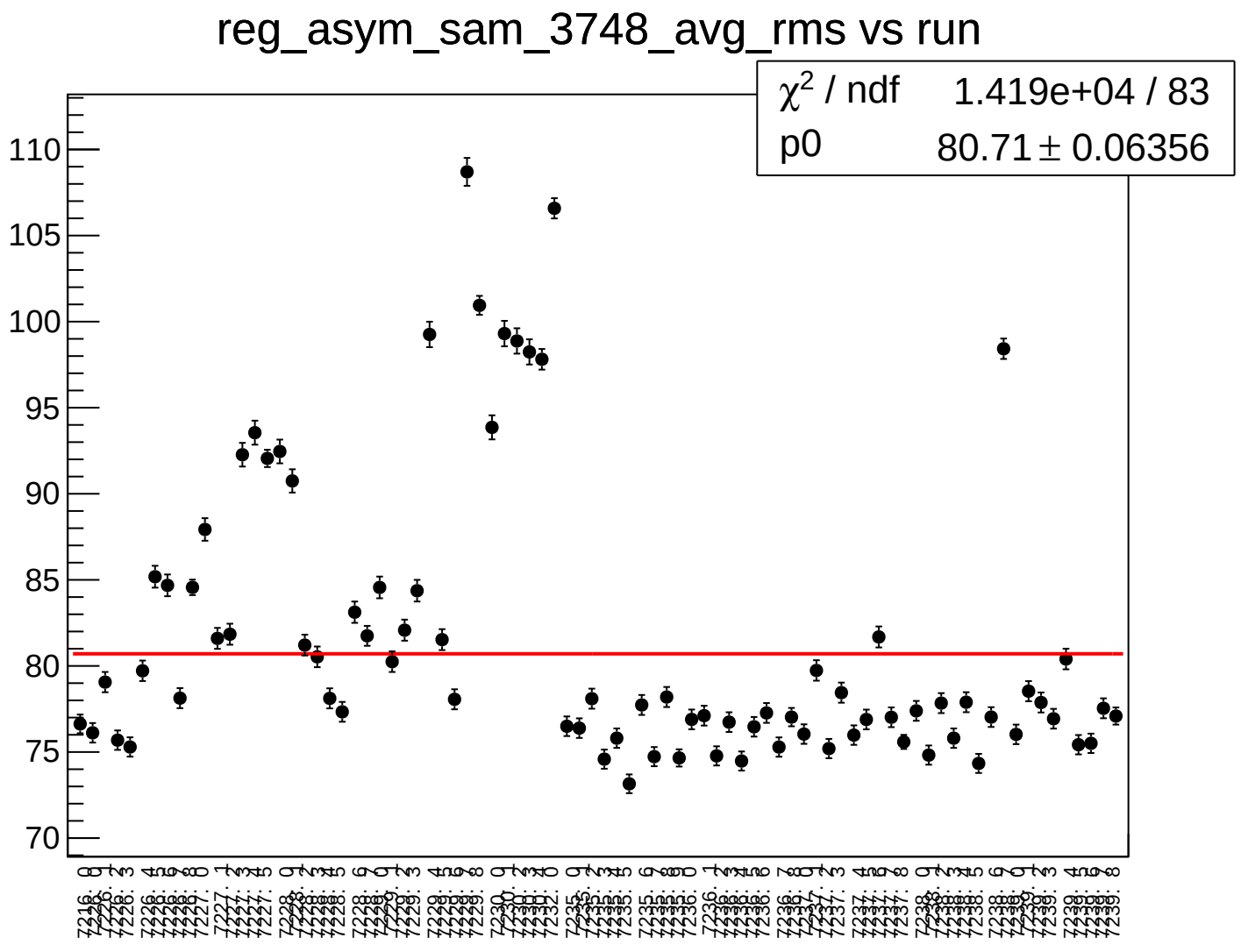

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.19 / 83
p0 −5.258e−15 ± 1.194e−14
pull
Entries 84
Mean −0.2337
Std Dev 0

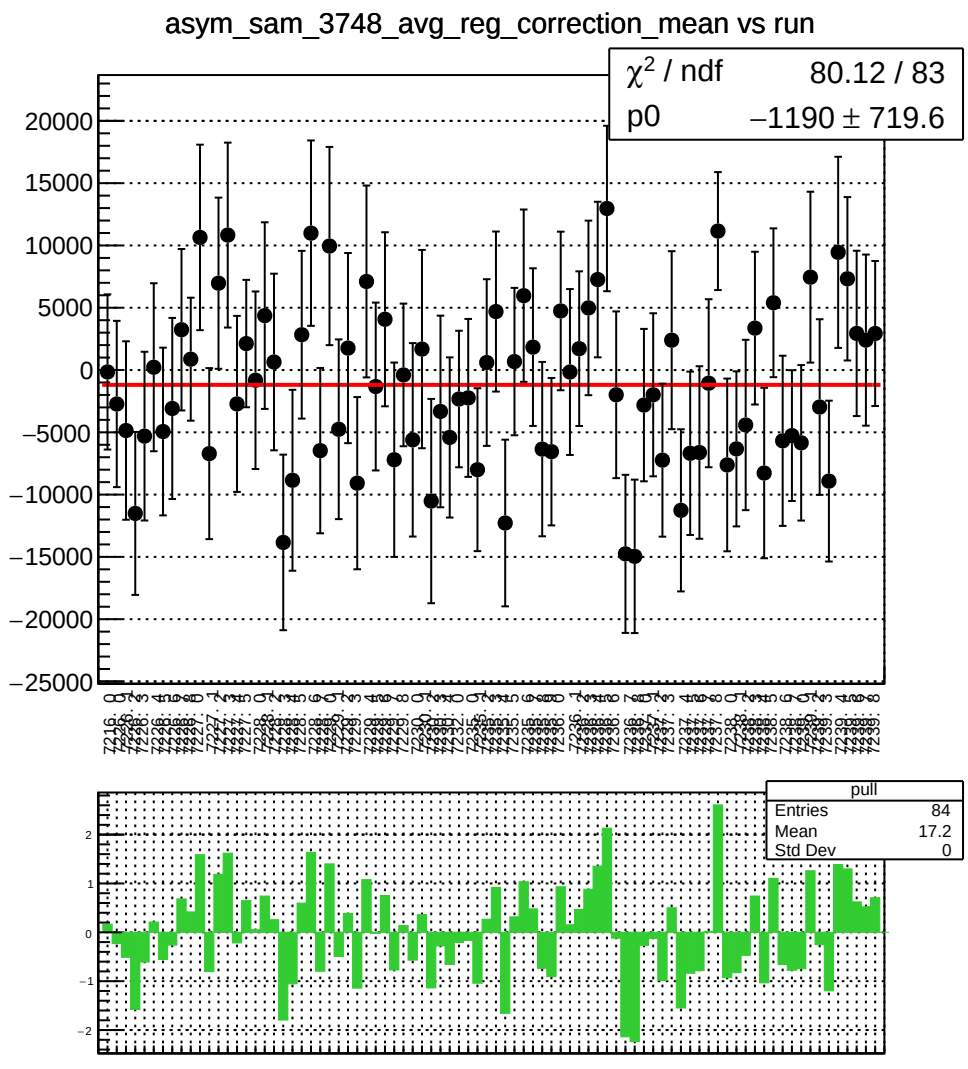

pull1D
Entries 84
Mean 0.09646
Std Dev 1.06

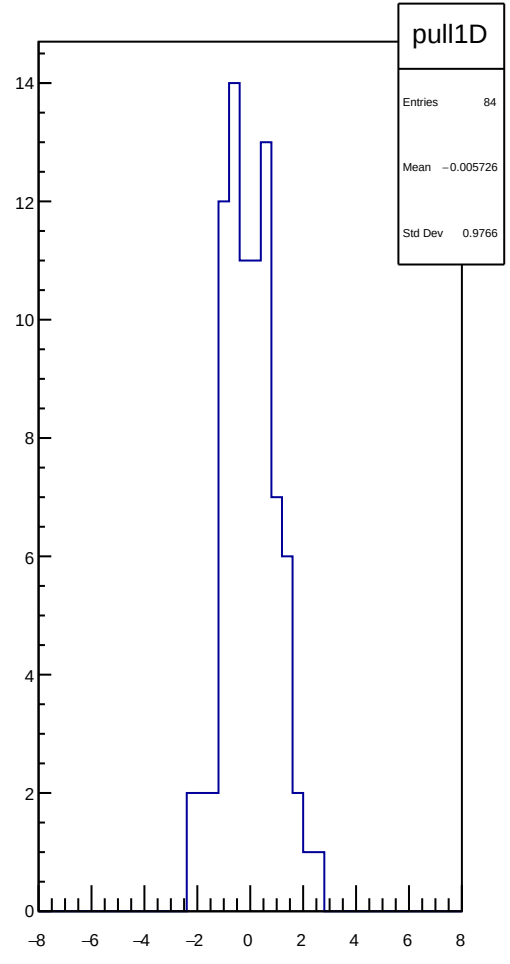

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.024e+05 / 83
p0 8.953e−12 ± 8.444e−15
50
40
30
20
10

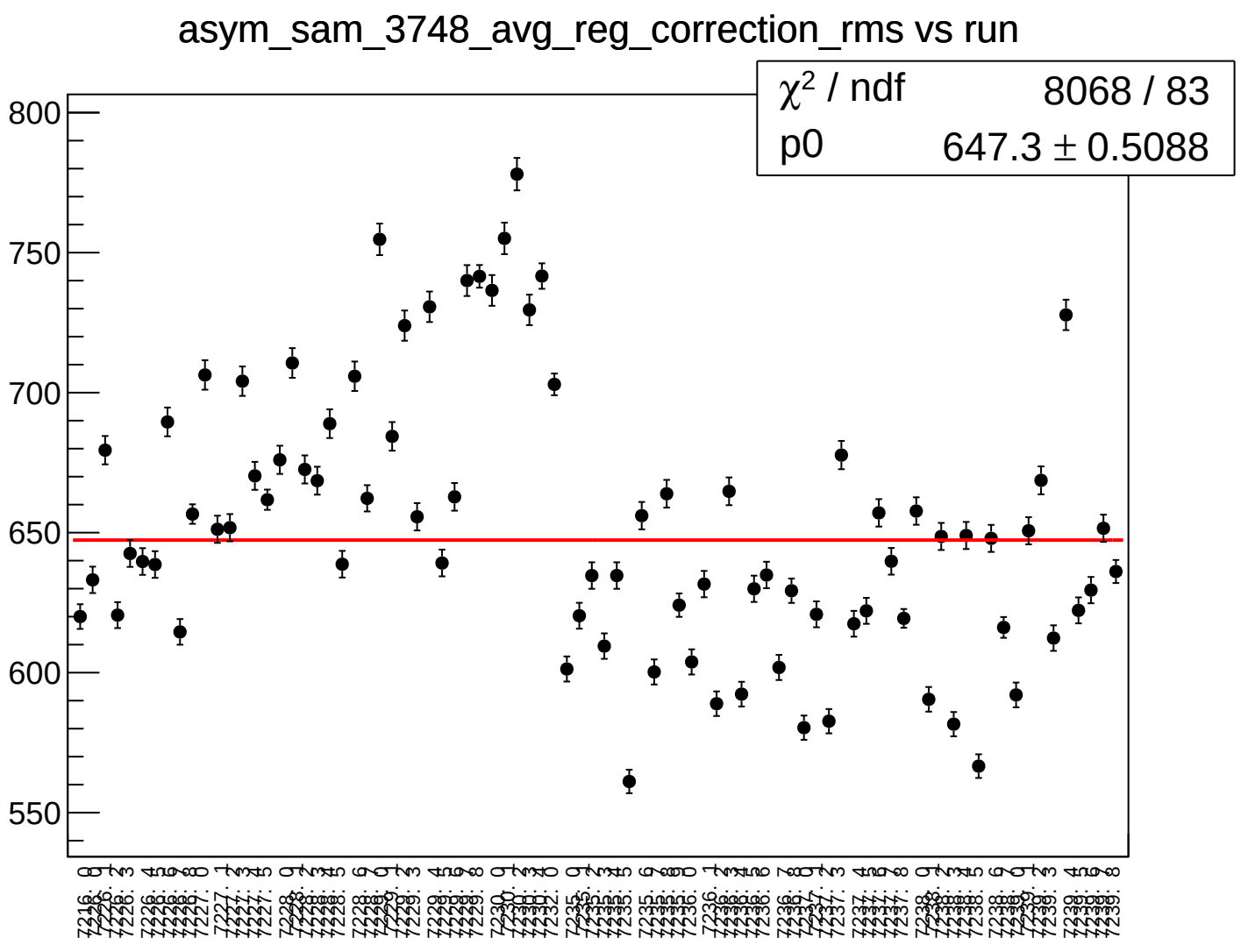

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 79.15 / 83
p0 −269.8 ± 89.88
pull
Entries 84
Mean 434.2
Std Dev 0

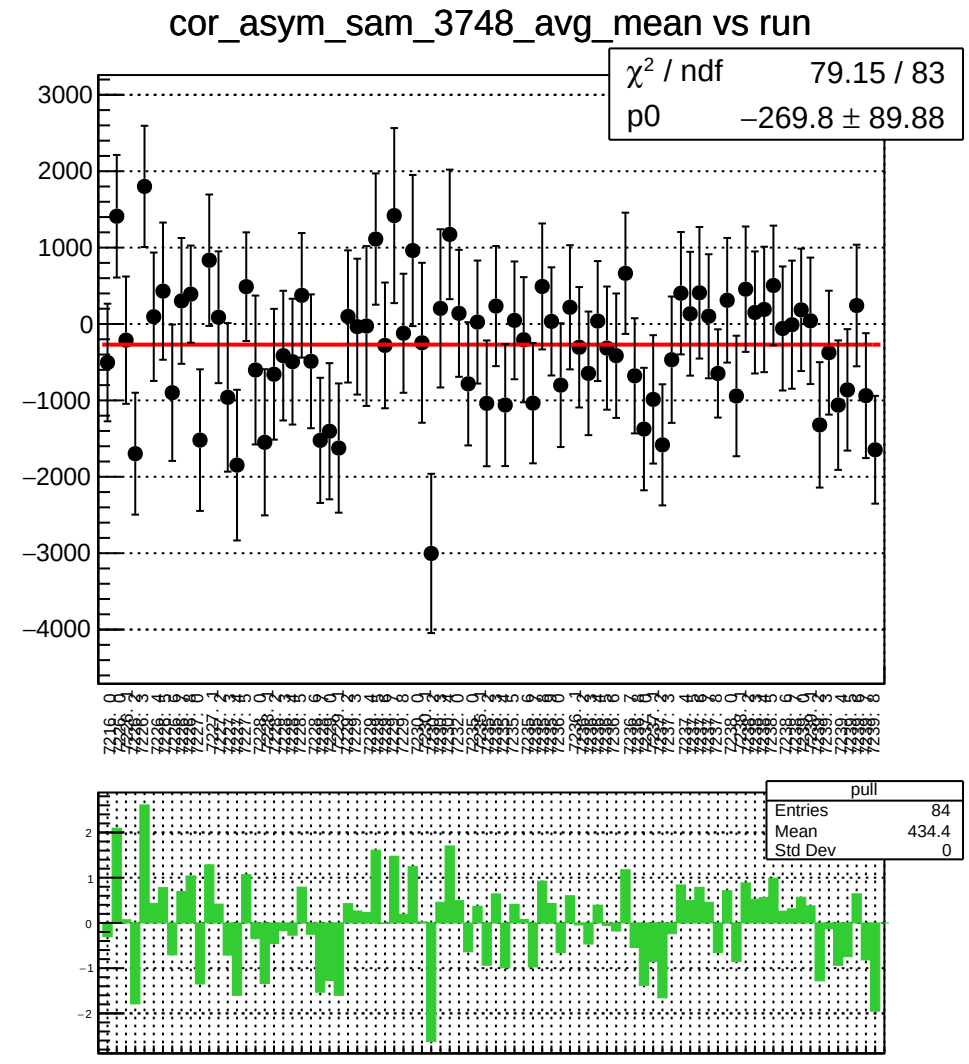

pull1D
Entries 84
Mean −0.005324
Std Dev 0.9707

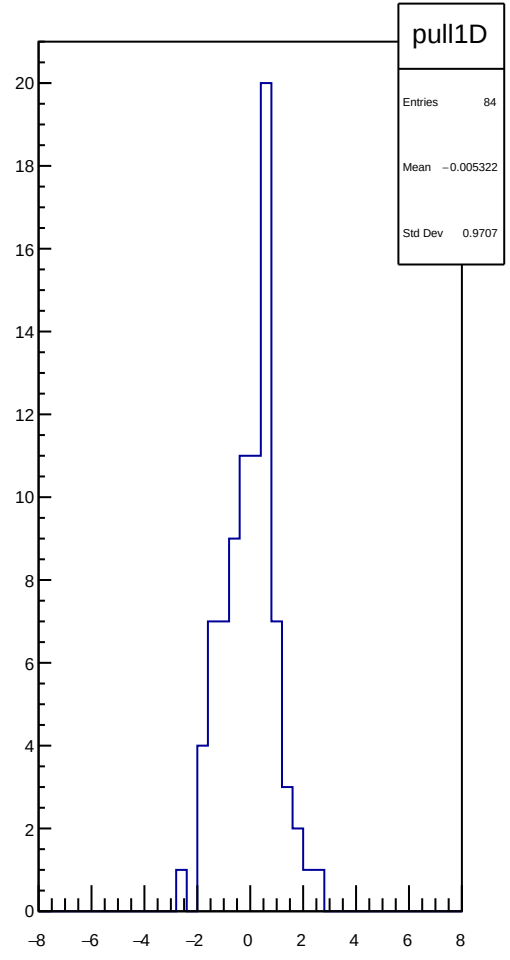

reg_asym_sam_3748_avg_rms vs run
χ^2 / ndf 1.419e+04 / 83
p0 80.71 ± 0.06356
110
105
100
95
90
85
80
75
70

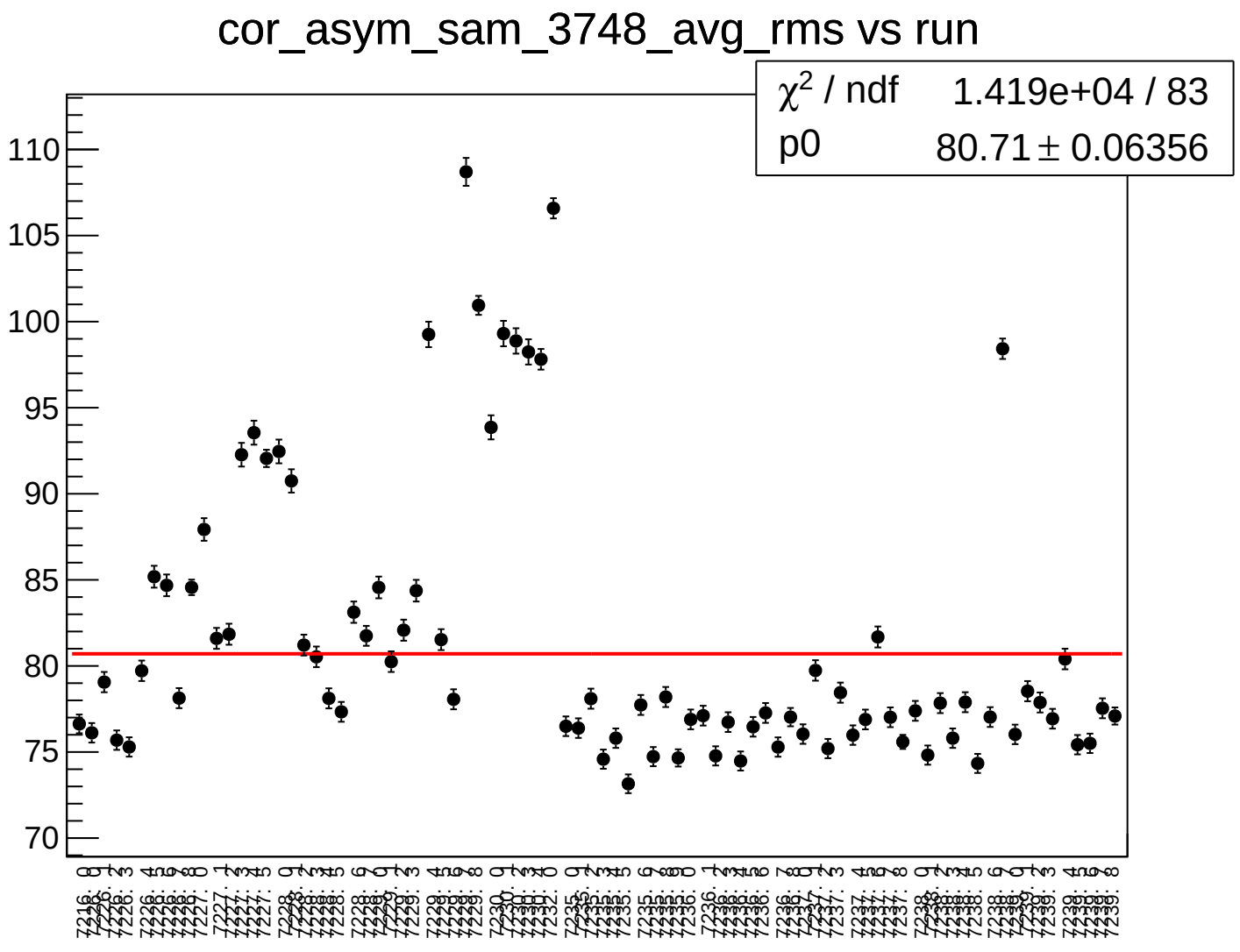

asym_sam_3748_avg_reg_correction_mean vs run
χ² / ndf 80.12 / 83
p0 −1190 ± 719.6
pull
Entries 84
Mean 17.2
Std Dev 0

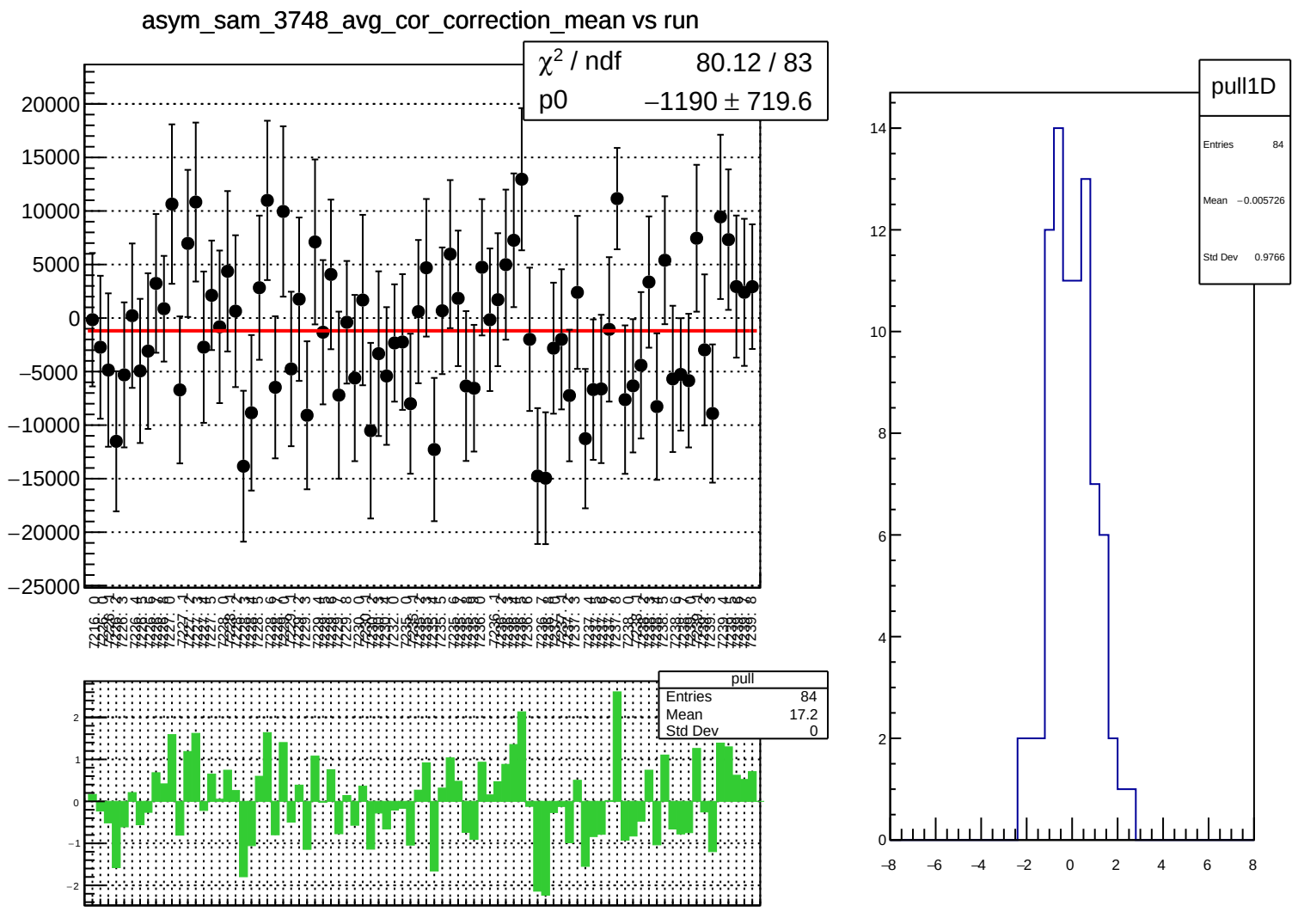

pull1D
Entries 84
Mean −0.005726
Std Dev 0.9766

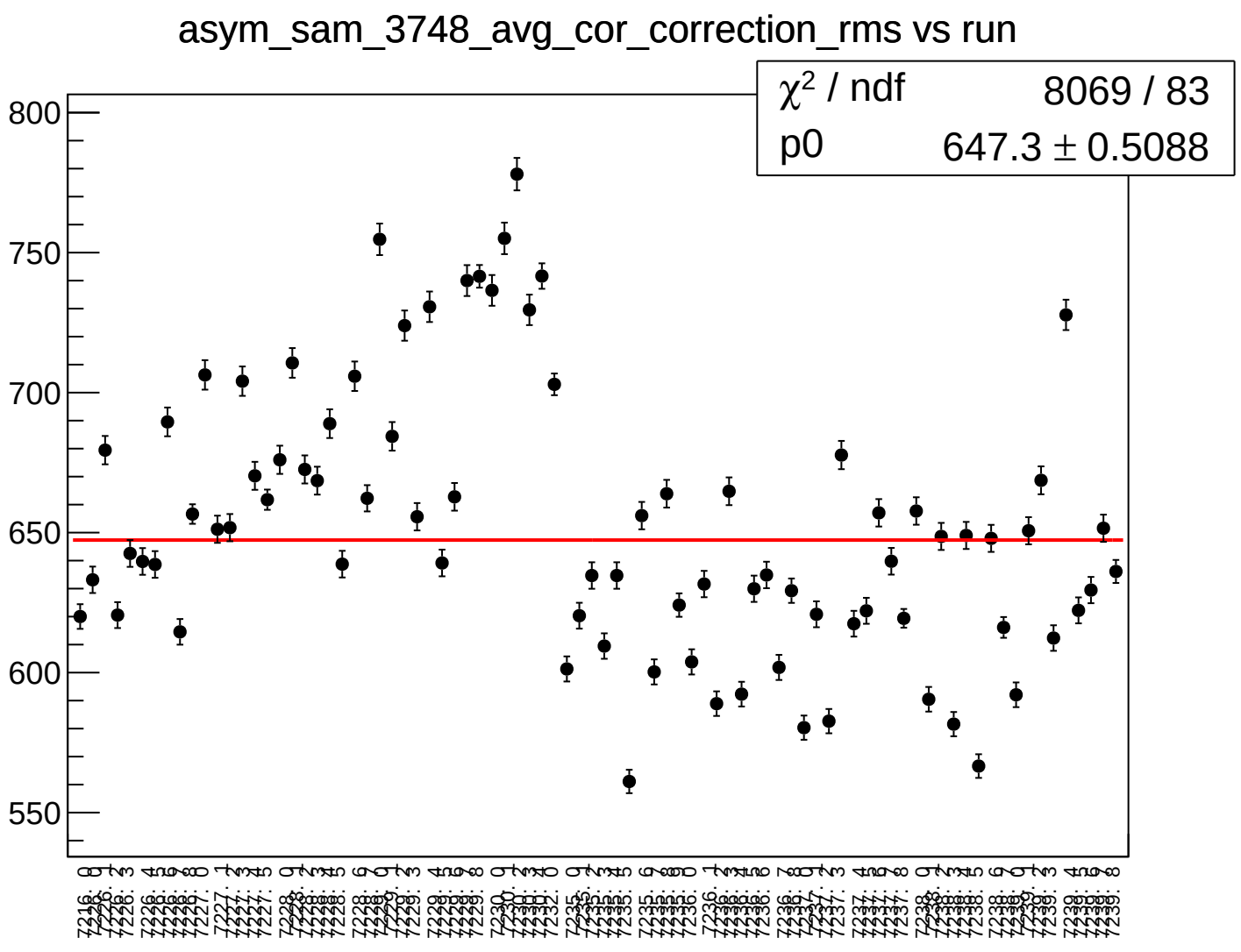

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 8068 / 83
p0 647.3 ± 0.5088
800
750
700
650
600
550

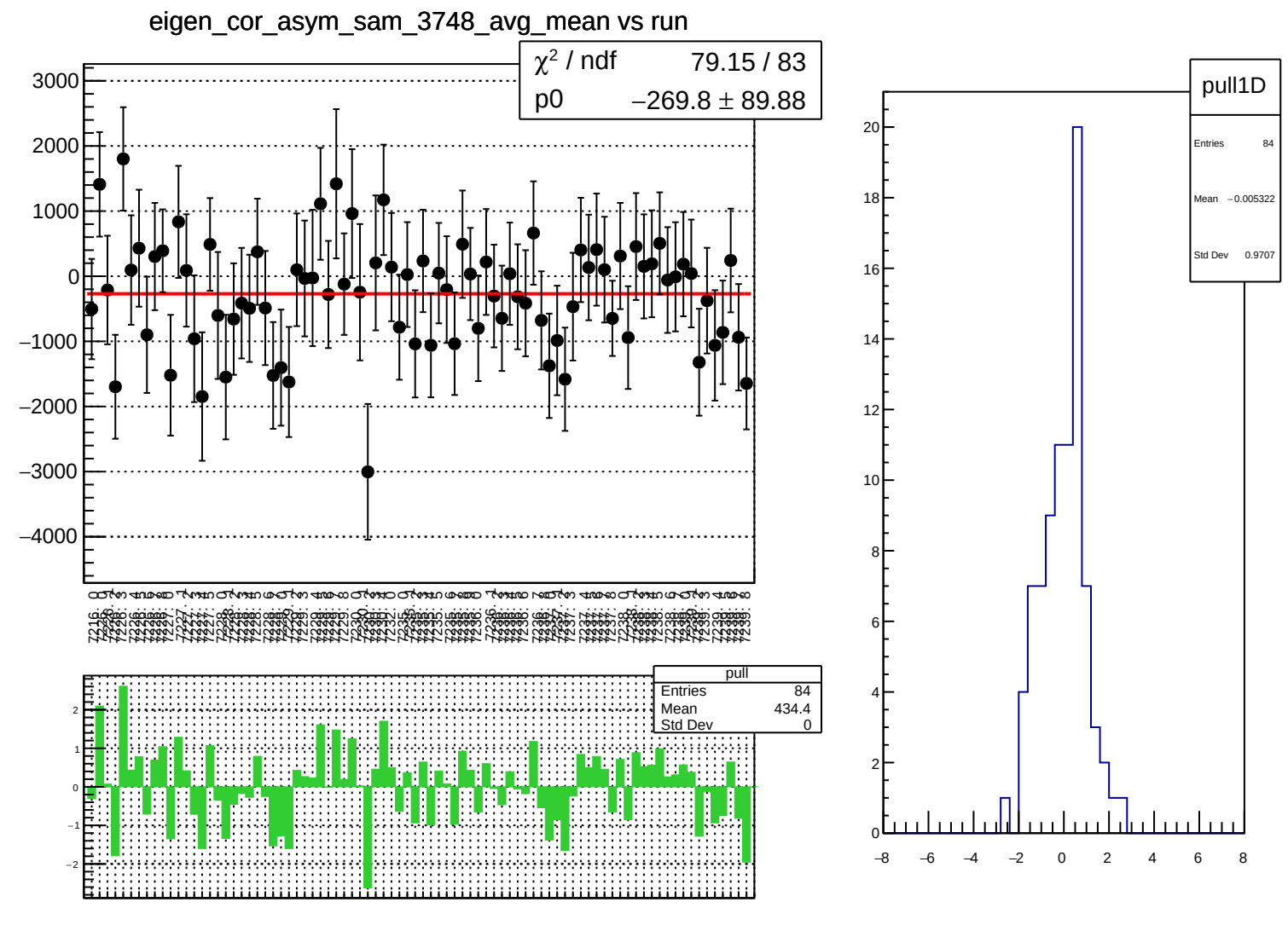

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 79.15 / 83
p0 −269.8 ± 89.88
pull
Entries 84
Mean 434.4
Std Dev 0

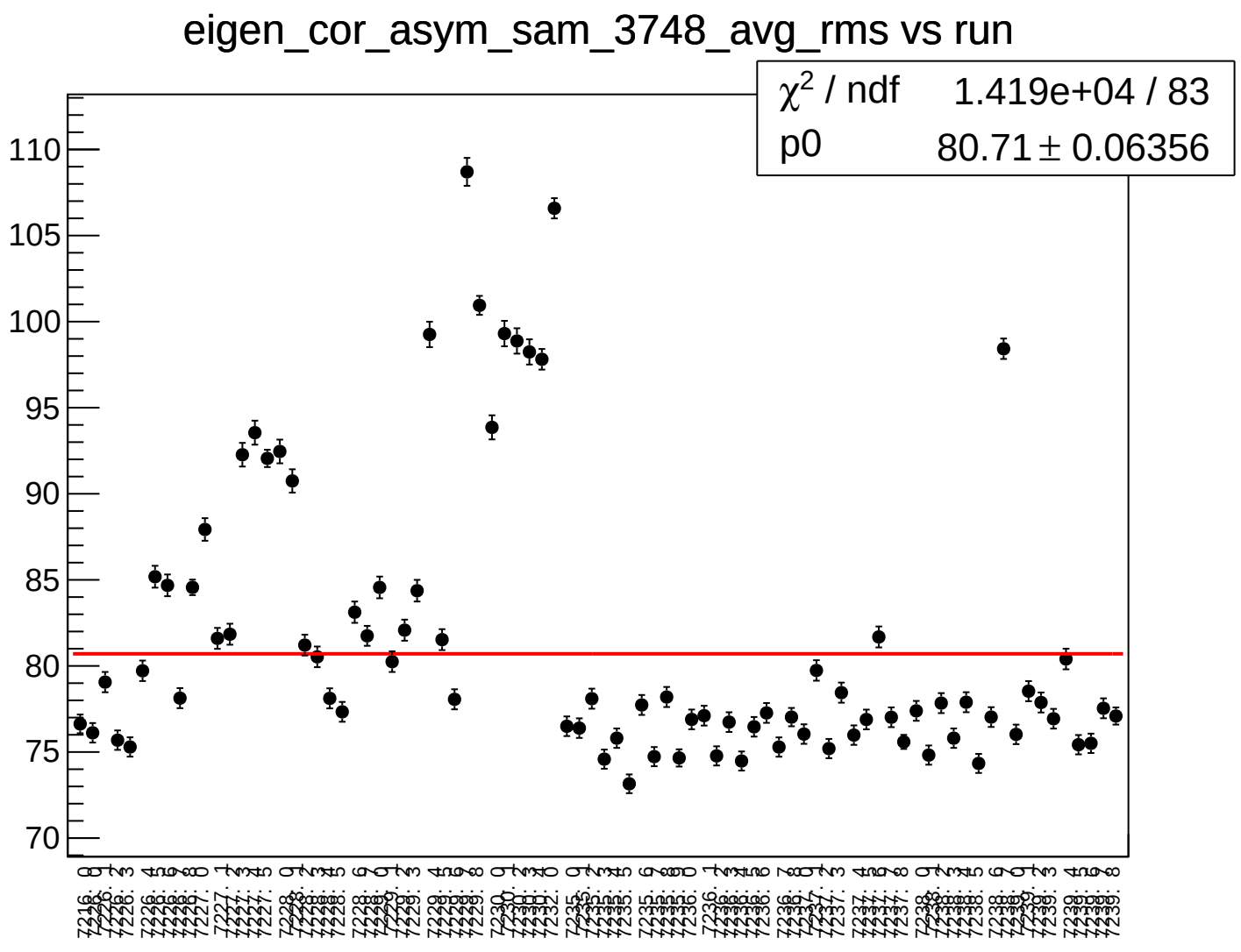

pull1D
Entries 84
Mean −0.005322
Std Dev 0.9707

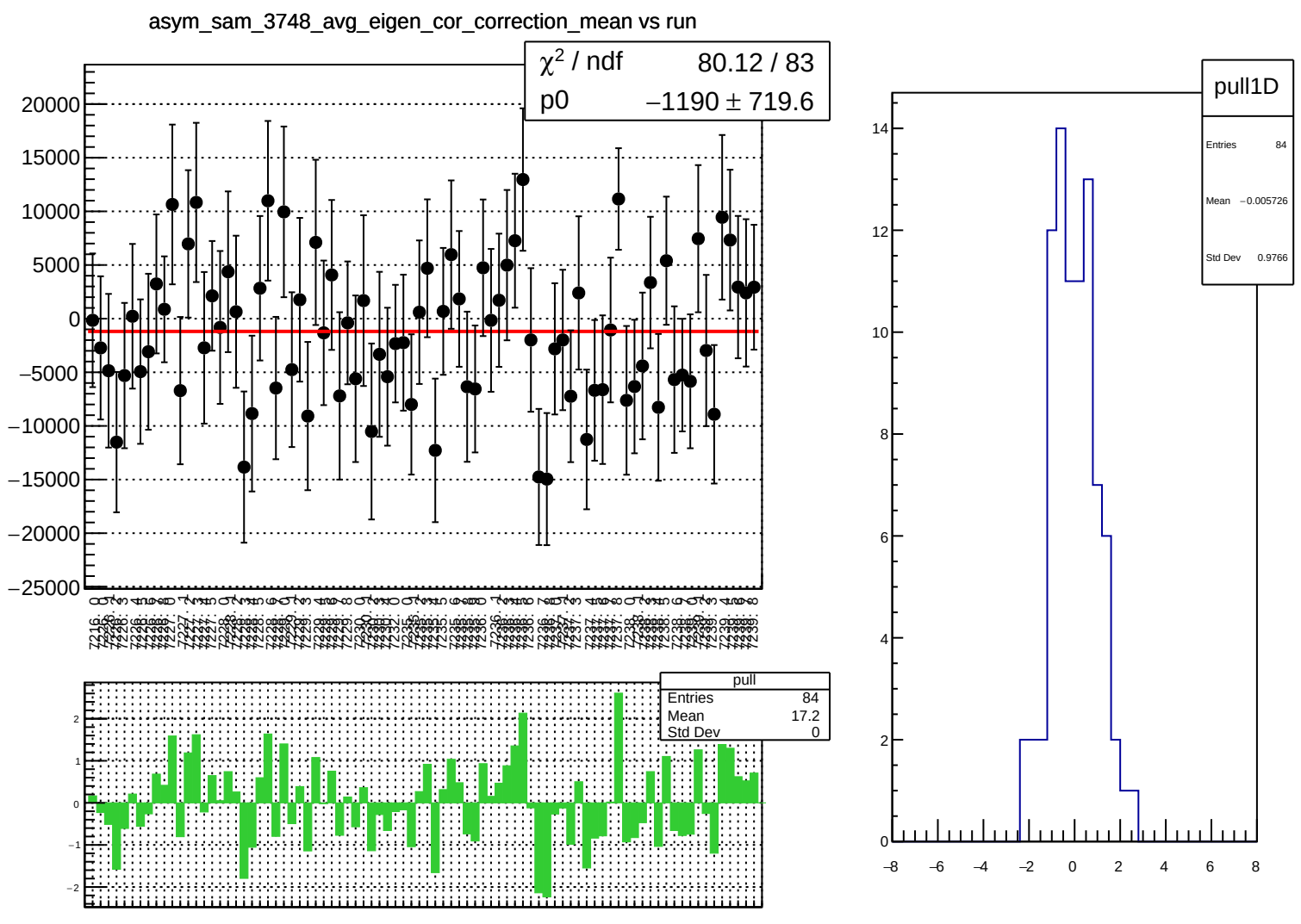

cor_asym_sam_3748_avg_rms vs run
χ^2 / ndf 1.419e+04 / 83
p0 80.71 ± 0.06356
110
105
100
95
90
85
80
75
70

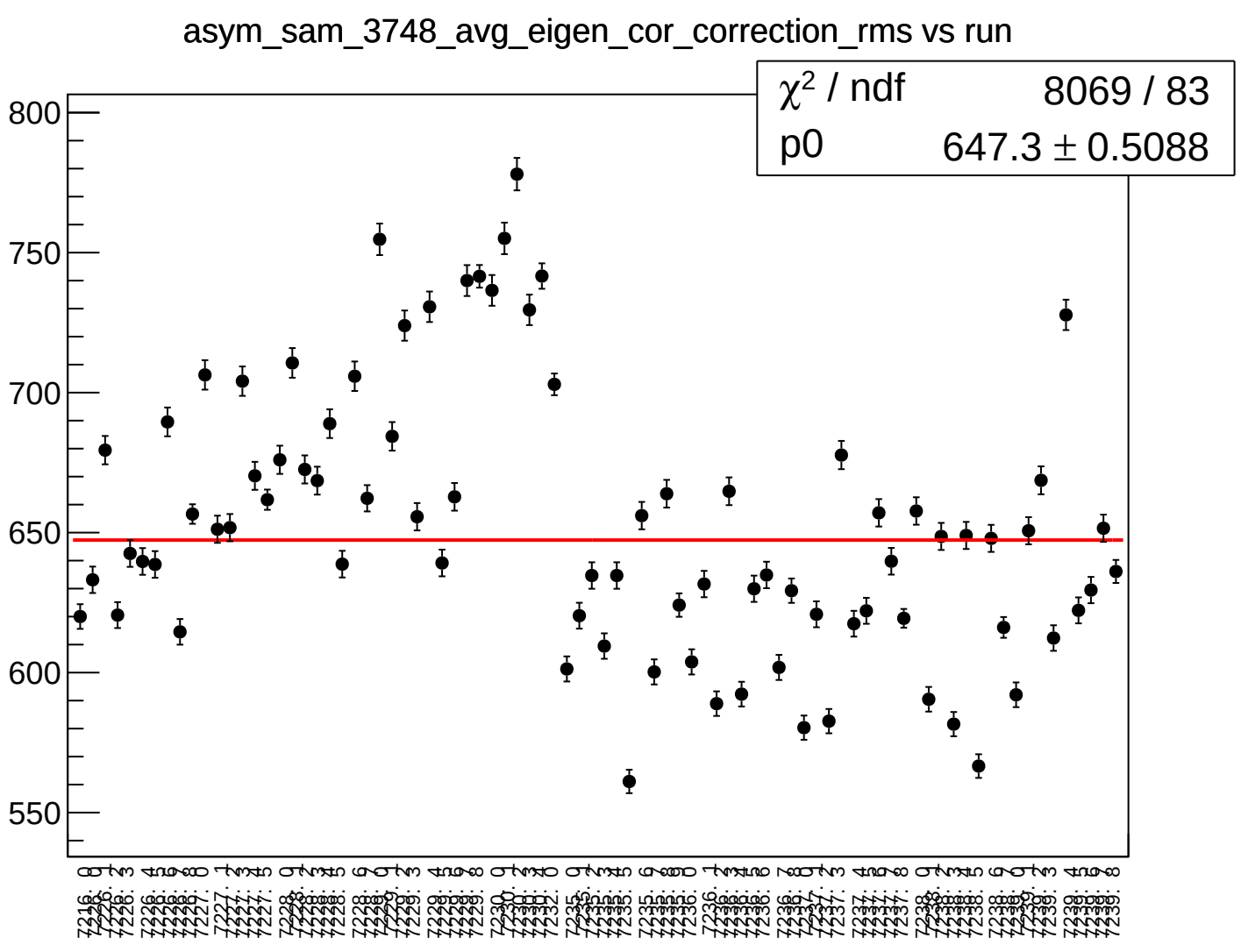

asym_sam_3748_avg_cor_correction_mean vs run
χ² / ndf 80.12 / 83
p0 −1190 ± 719.6
pull
Entries 84
Mean 17.2
Std Dev 0
pull1D
Entries 84
Mean −0.005726
Std Dev 0.9766

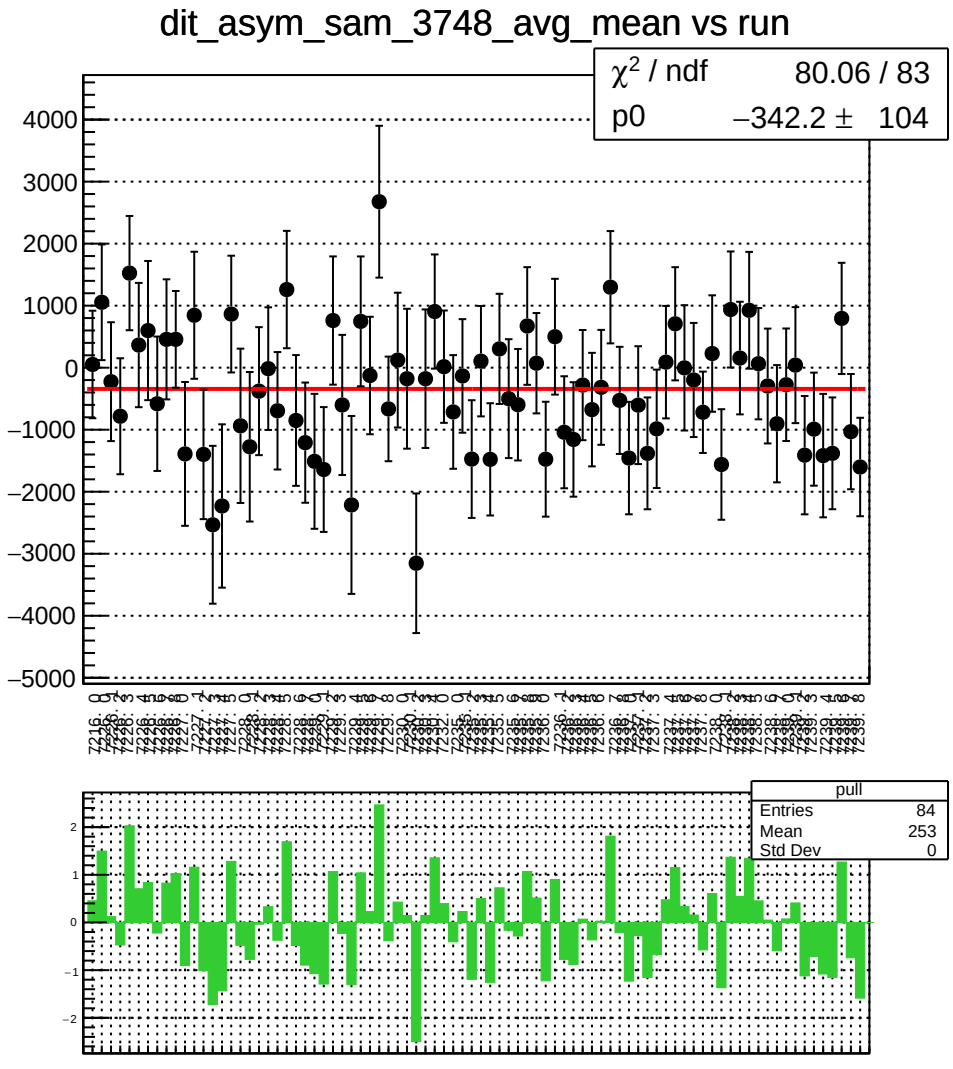

asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 8069 / 83
p0 647.3 ± 0.5088
800
750
700
650
600
550

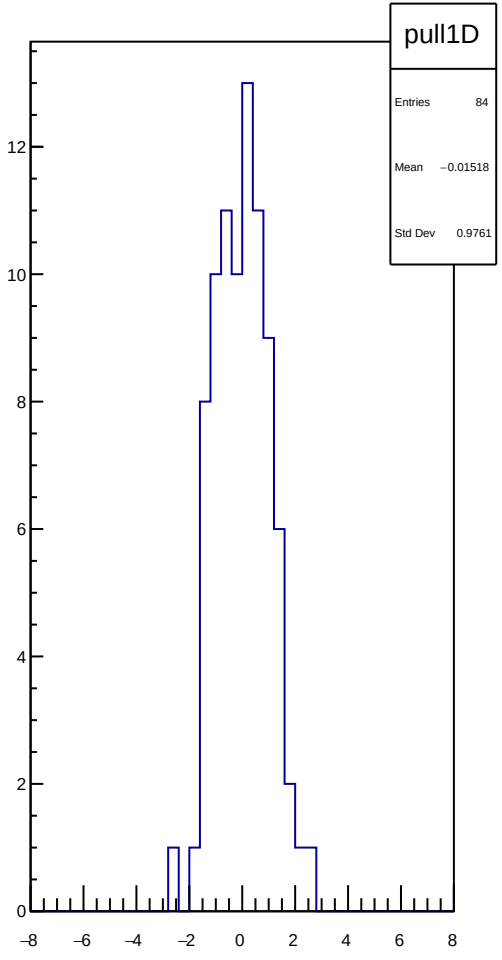

eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 79.15 / 83
p0 −269.8 ± 89.88
pull
Entries 84
Mean 434.4
Std Dev 0
pull1D
Entries 84
Mean −0.005322
Std Dev 0.9707

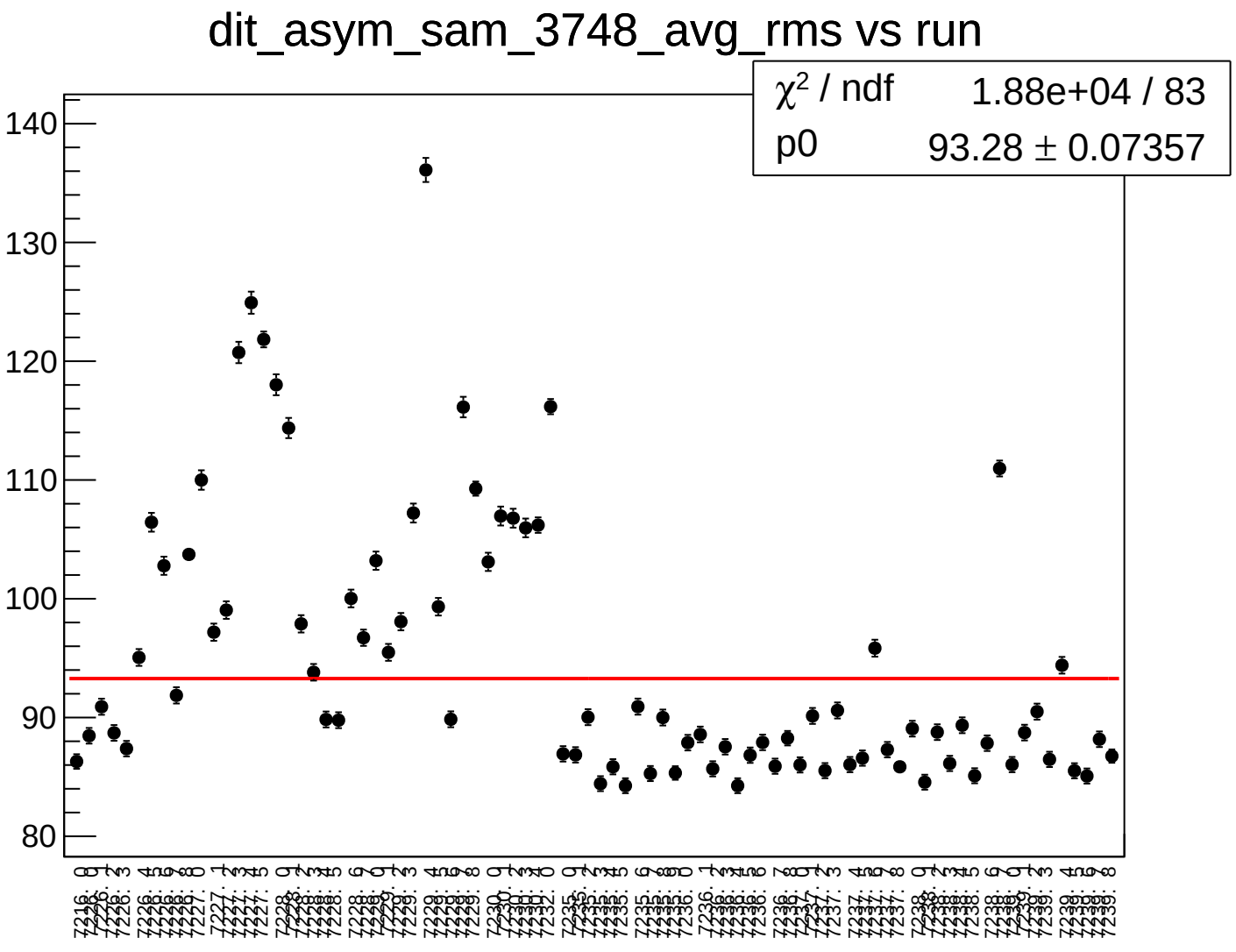

eigen_cor_asym_sam_3748_avg_rms vs run
χ^2 / ndf 1.419e+04 / 83
p0 80.71 ± 0.06356
110
105
100
95
90
85
80
75
70

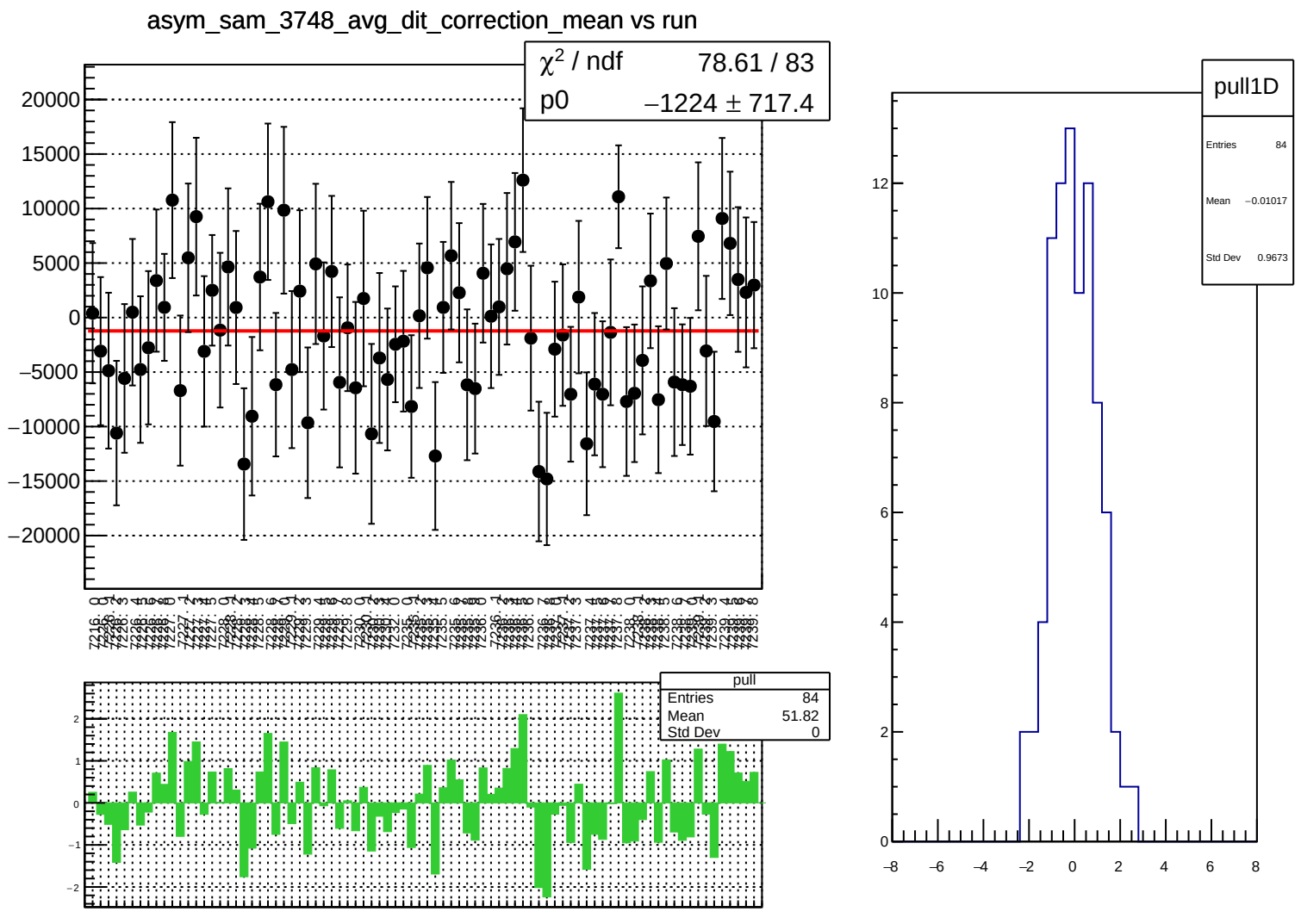

asym_sam_3748_avg_eigen_cor_correction_mean vs run
χ² / ndf 80.12 / 83
p0 −1190 ± 719.6
pull
Entries 84
Mean 17.2
Std Dev 0
pull1D
Entries 84
Mean −0.005726
Std Dev 0.9766

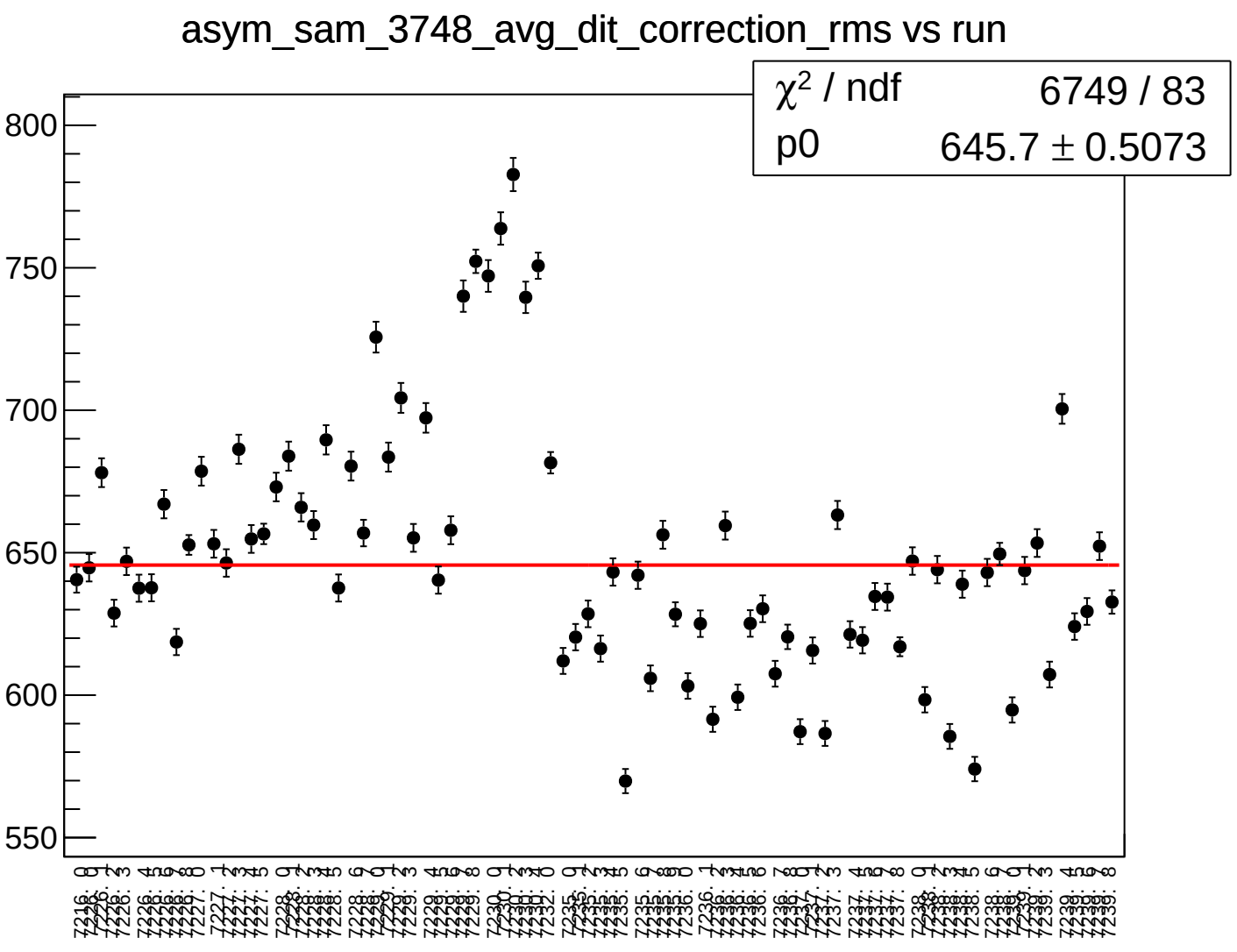

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 8069 / 83
p0 647.3 ± 0.5088
800
750
700
650
600
550

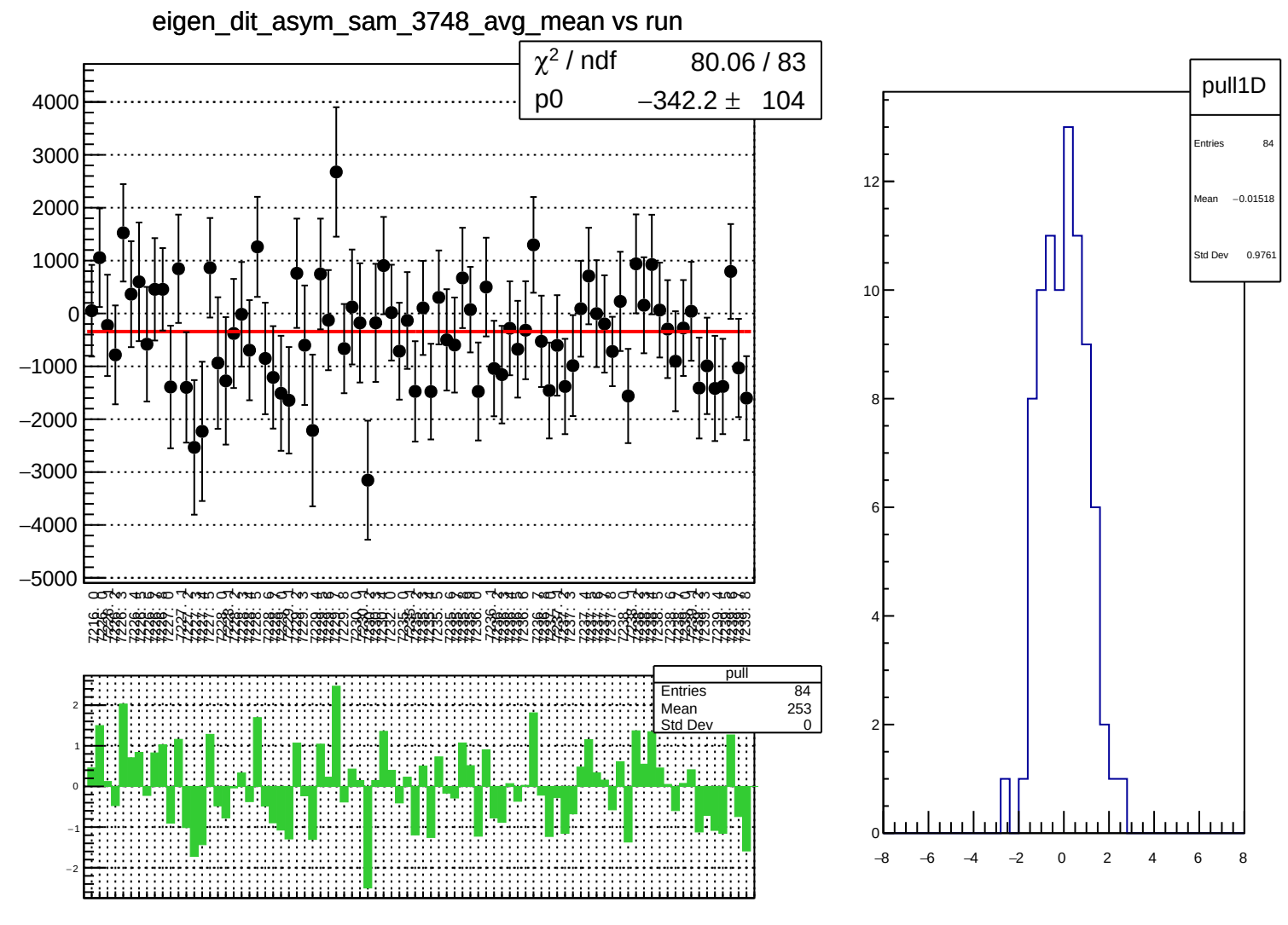

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 80.06 / 83
p0 −342.2 ± 104
pull
Entries 84
Mean 253
Std Dev 0

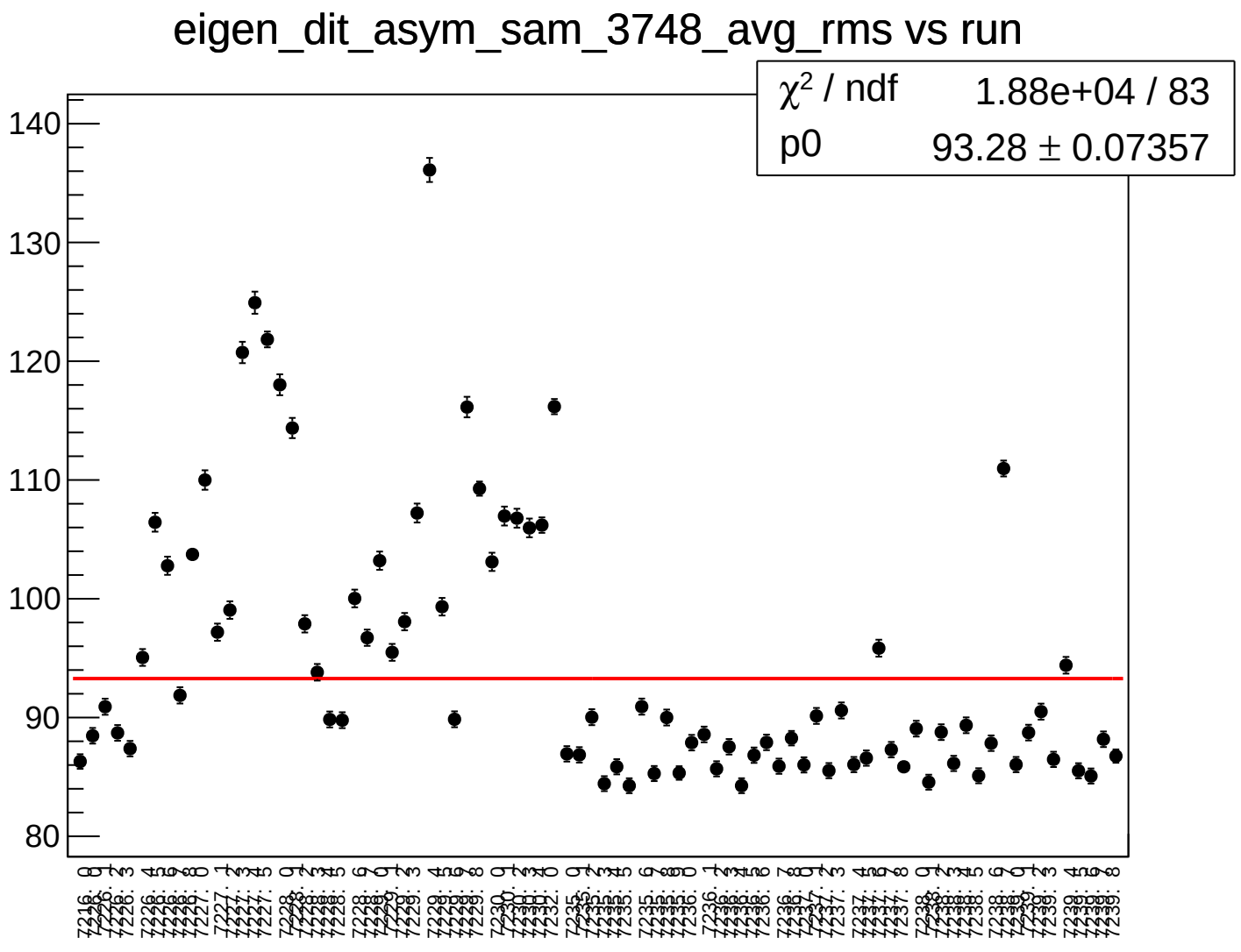

pull1D
Entries 84
Mean −0.01518
Std Dev 0.9761

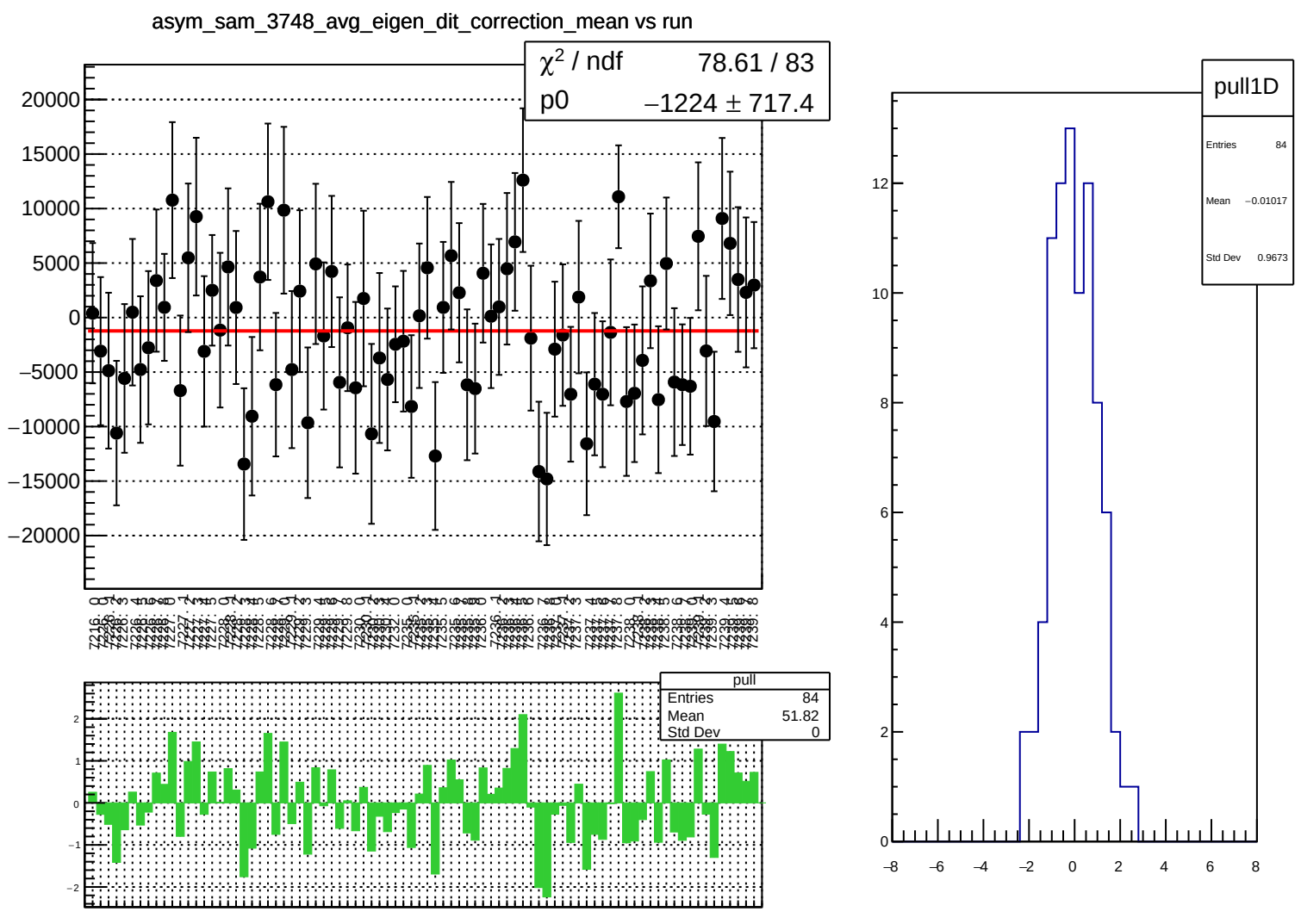

dit_asym_sam_3748_avg_rms vs run
χ^2 / ndf 1.88e+04 / 83
p0 93.28 ± 0.07357
140
130
120
110
100
90
80

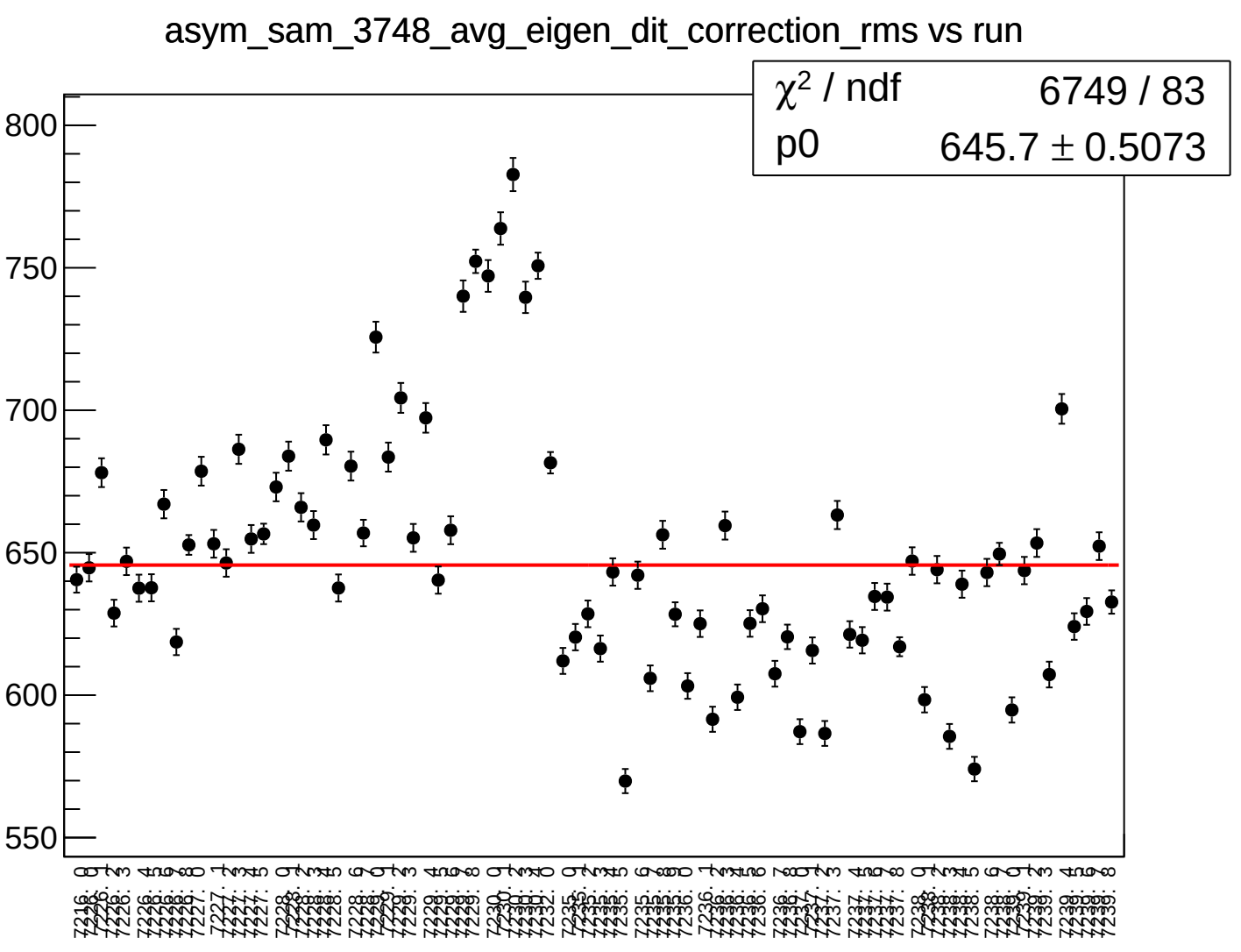

asym_sam_3748_avg_dit_correction_mean vs run
χ² / ndf 78.61 / 83
p0 −1224 ± 717.4
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 84
Mean 51.82
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.01017
Std Dev 0.9673
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

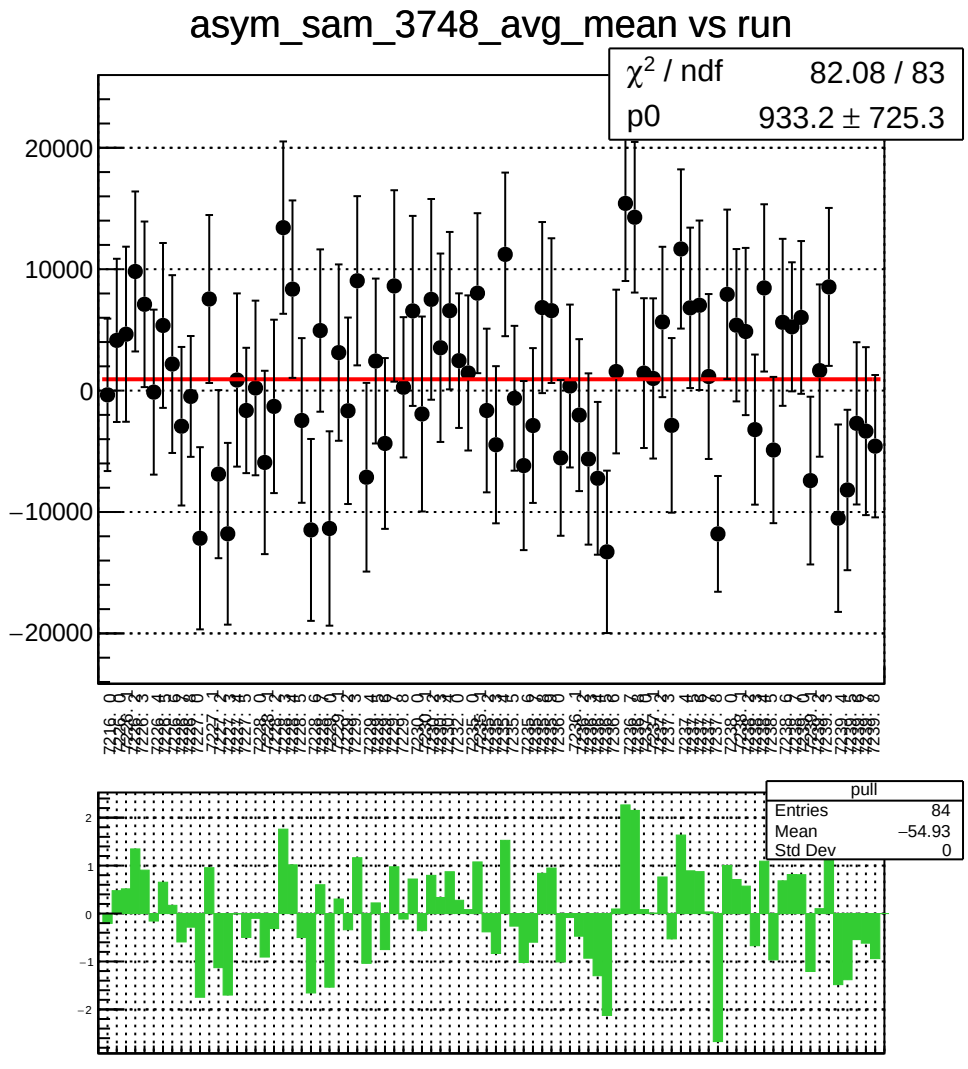

asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 6749 / 83
p0 645.7 ± 0.5073
800
750
700
650
600
550

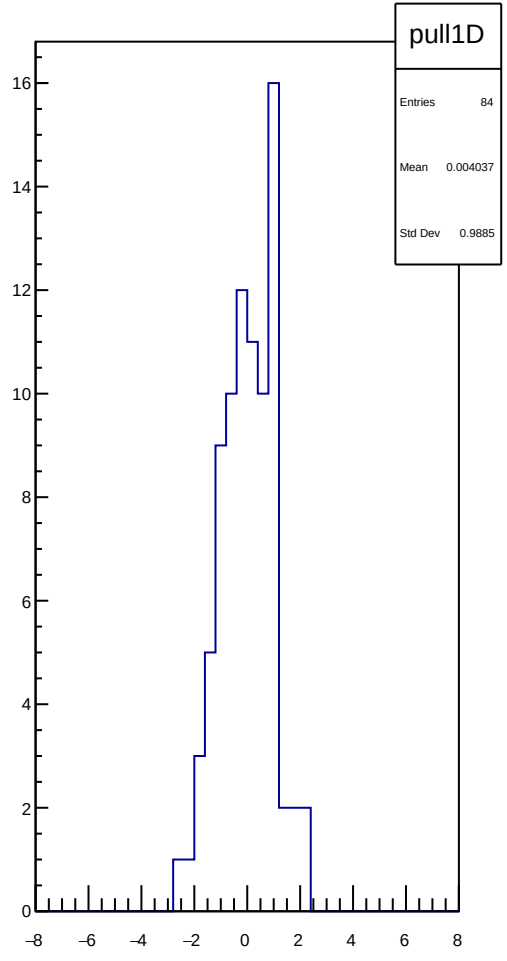

eigen_dit_asym_sam_3748_avg_mean vs run
χ² / ndf 80.06 / 83
p0 −342.2 ± 104
pull
Entries 84
Mean 253
Std Dev 0
pull1D
Entries 84
Mean −0.01518
Std Dev 0.9761

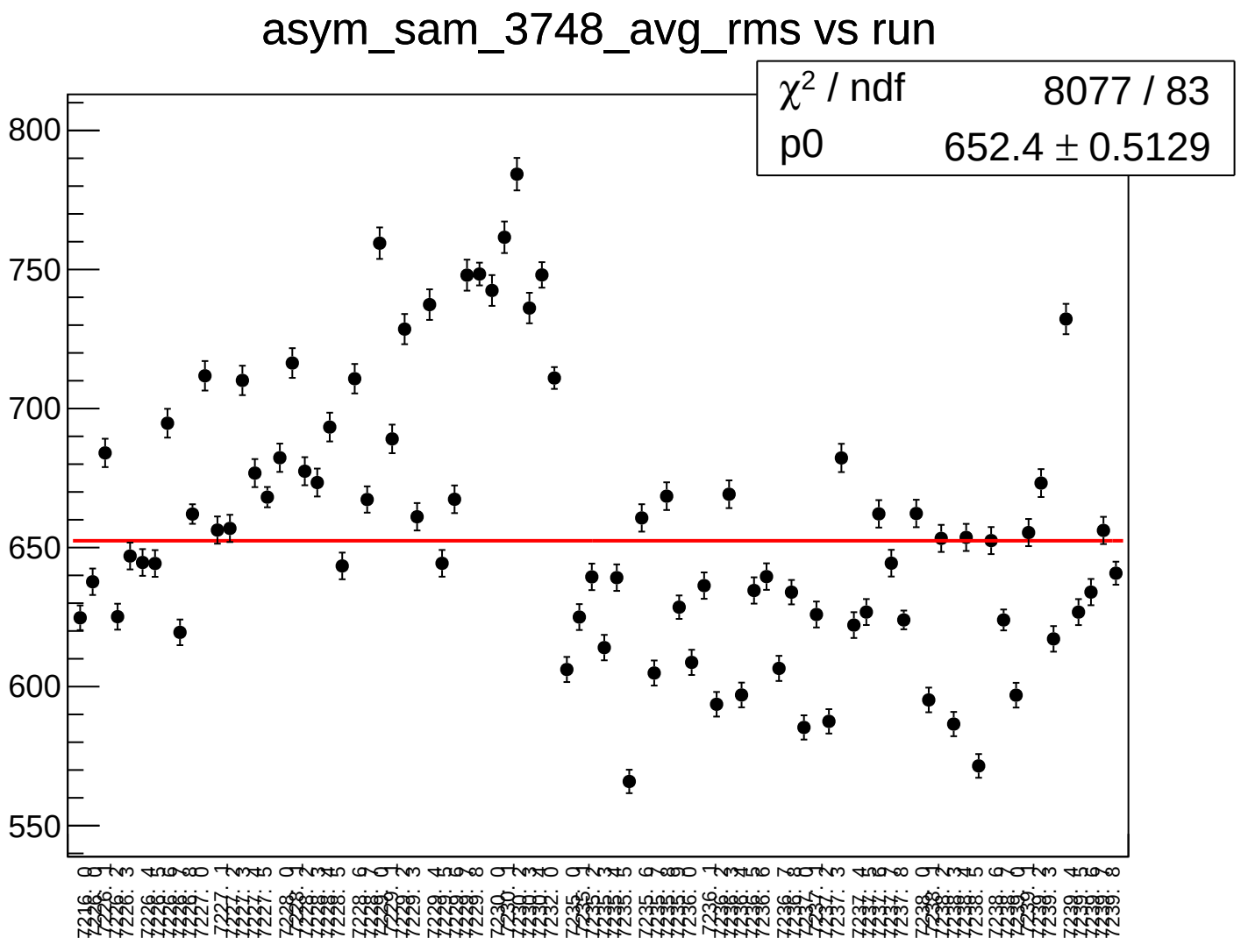

eigen_dit_asym_sam_3748_avg_rms vs run
χ² / ndf 1.88e+04 / 83
p0 93.28 ± 0.07357
140
130
120
110
100
90
80

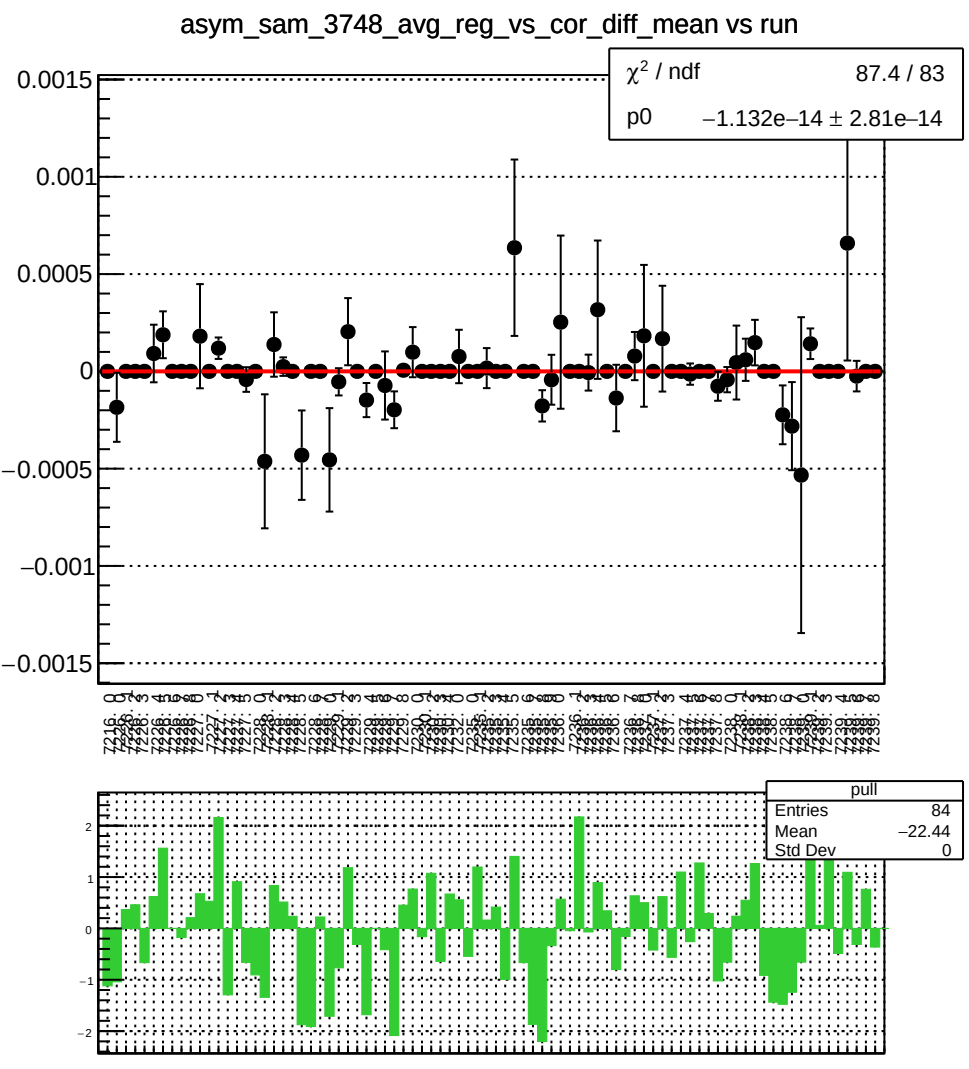

asym_sam_3748_avg_eigen_dit_correction_mean vs run
χ² / ndf 78.61 / 83
p0 −1224 ± 717.4
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 84
Mean 51.82
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.01017
Std Dev 0.9673
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

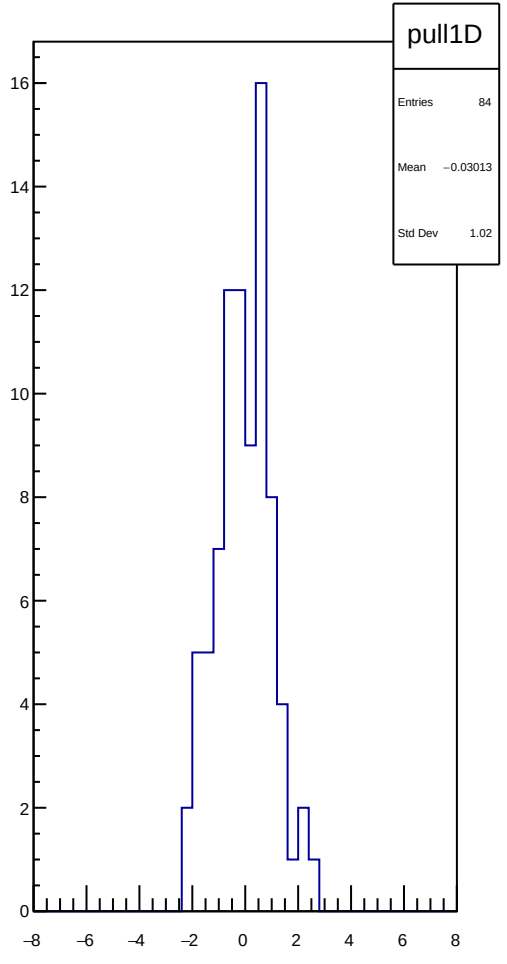

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 6749 / 83
p0 645.7 ± 0.5073
800
750
700
650
600
550

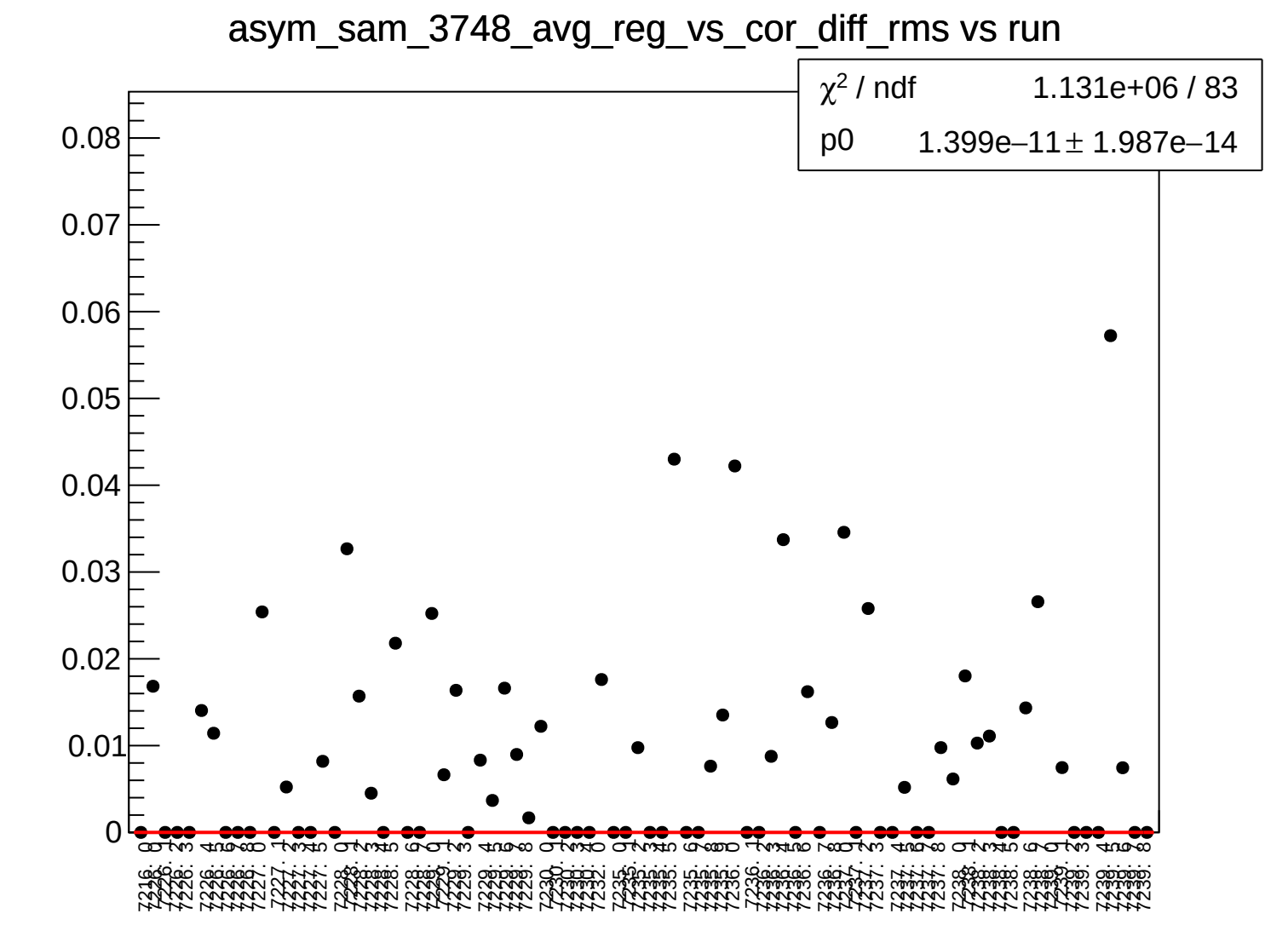

asym_sam_3748_avg_mean vs run
χ² / ndf 82.08 / 83
p0 933.2 ± 725.3
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −54.93
Std Dev 0
2
1
0
−1
−2

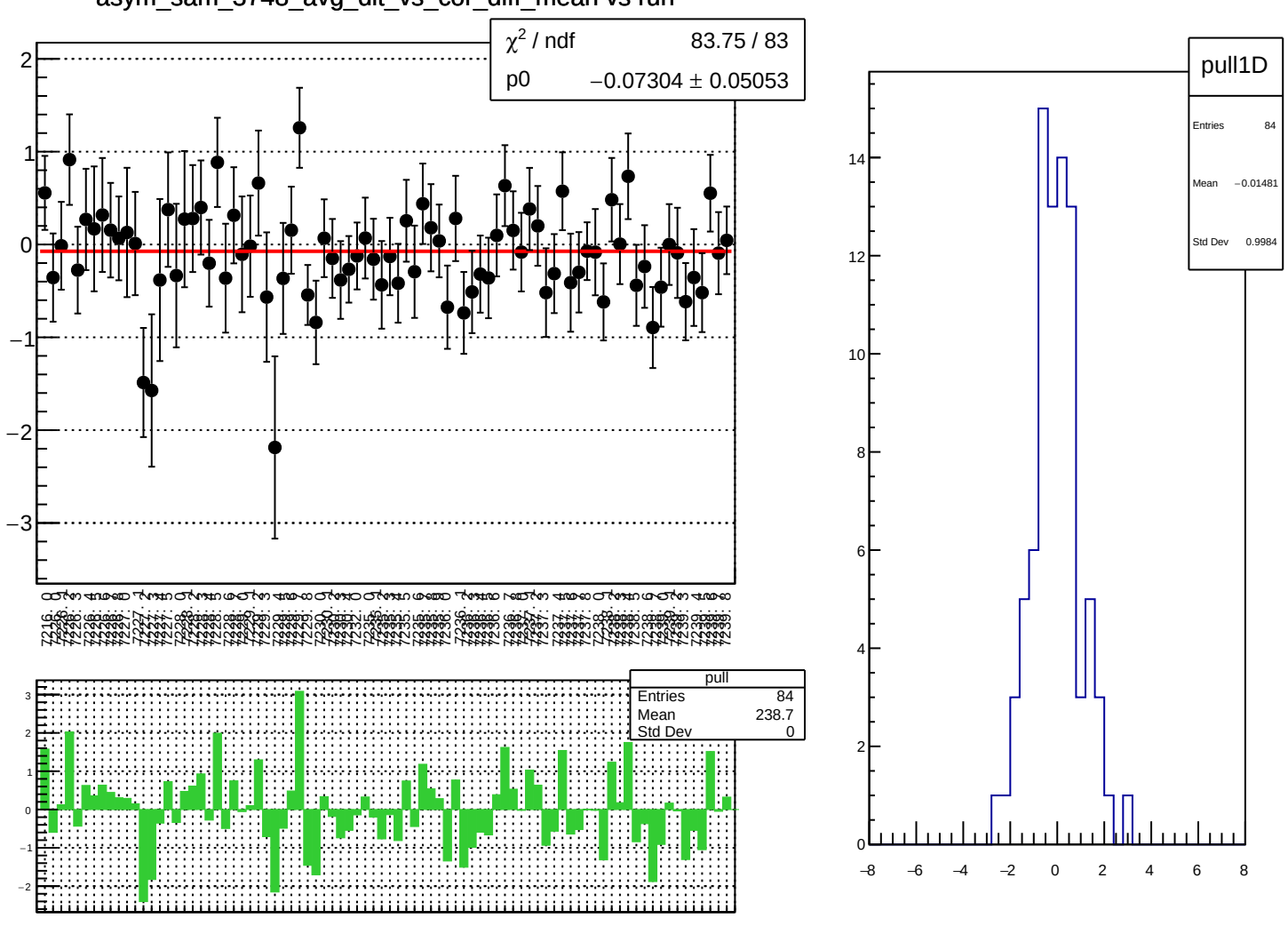

pull1D
Entries 84
Mean 0.004037
Std Dev 0.9885
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

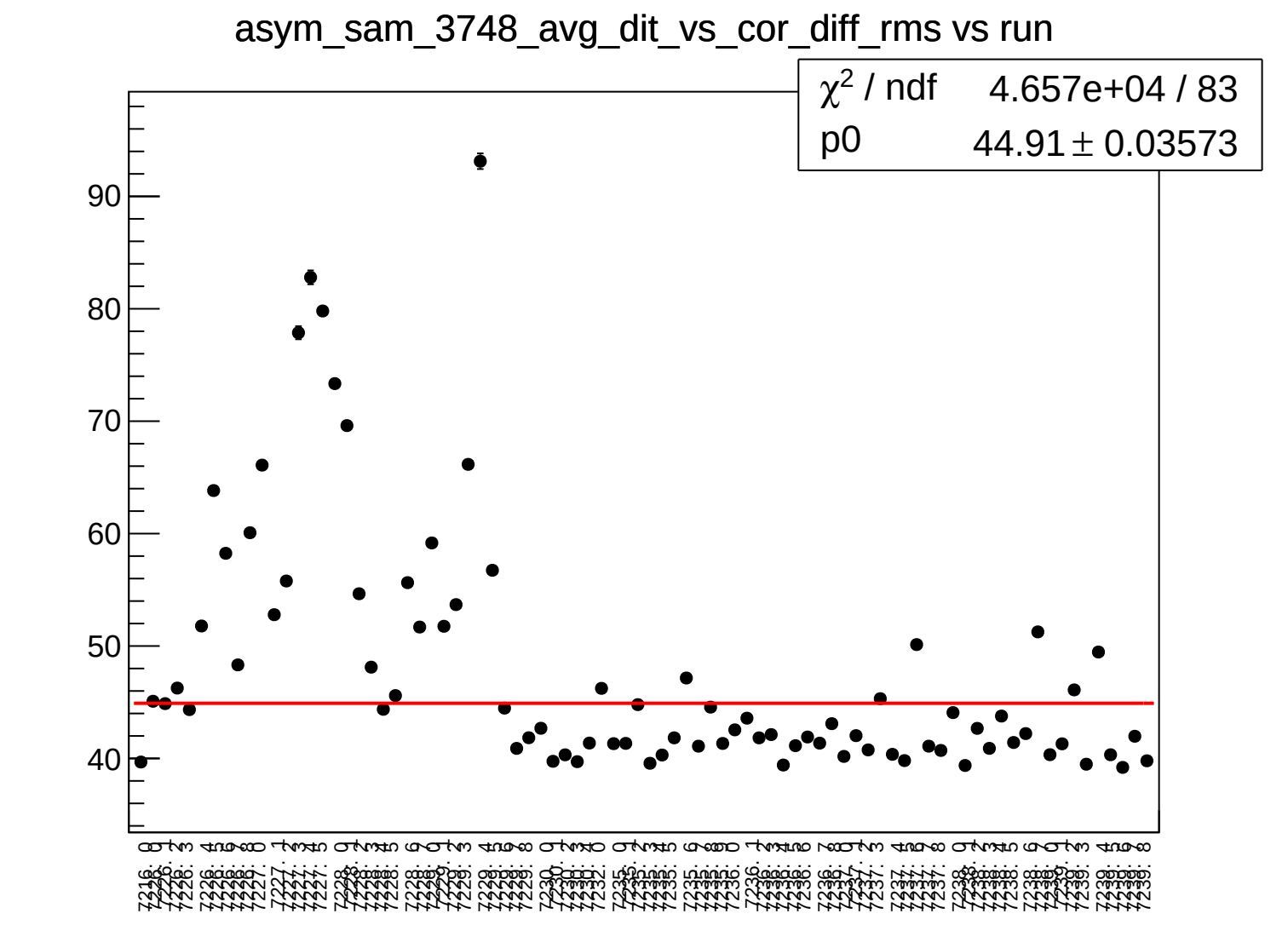

asym_sam_3748_avg_rms vs run
χ^2 / ndf 8077 / 83
p0 652.4 ± 0.5129
800
750
700
650
600
550

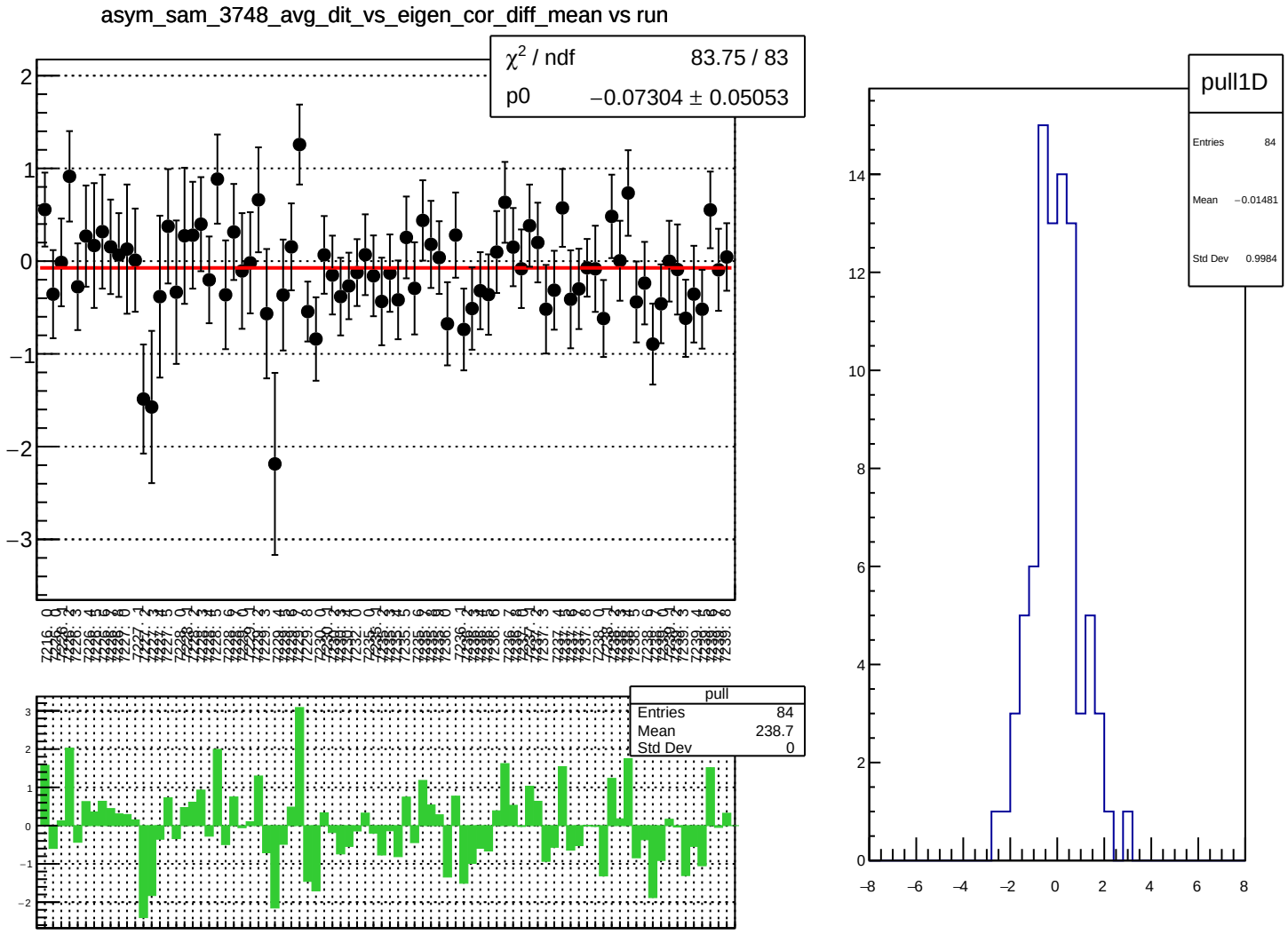

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 87.4 / 83
p0 −1.132e−14 ± 2.81e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 84
Mean −22.44
Std Dev 0
2
1
0
−1
−2

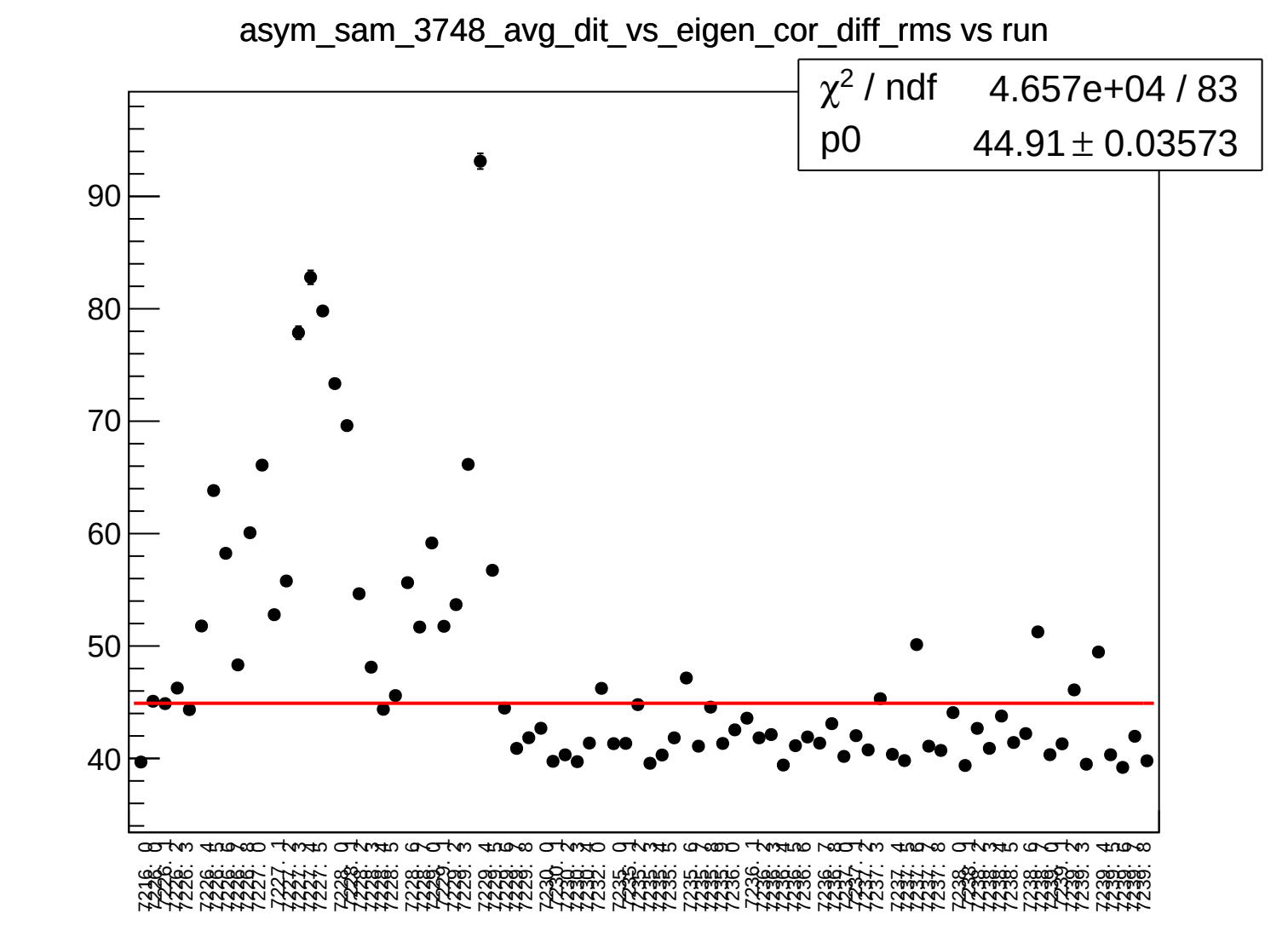

pull1D
Entries 84
Mean −0.03013
Std Dev 1.02
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

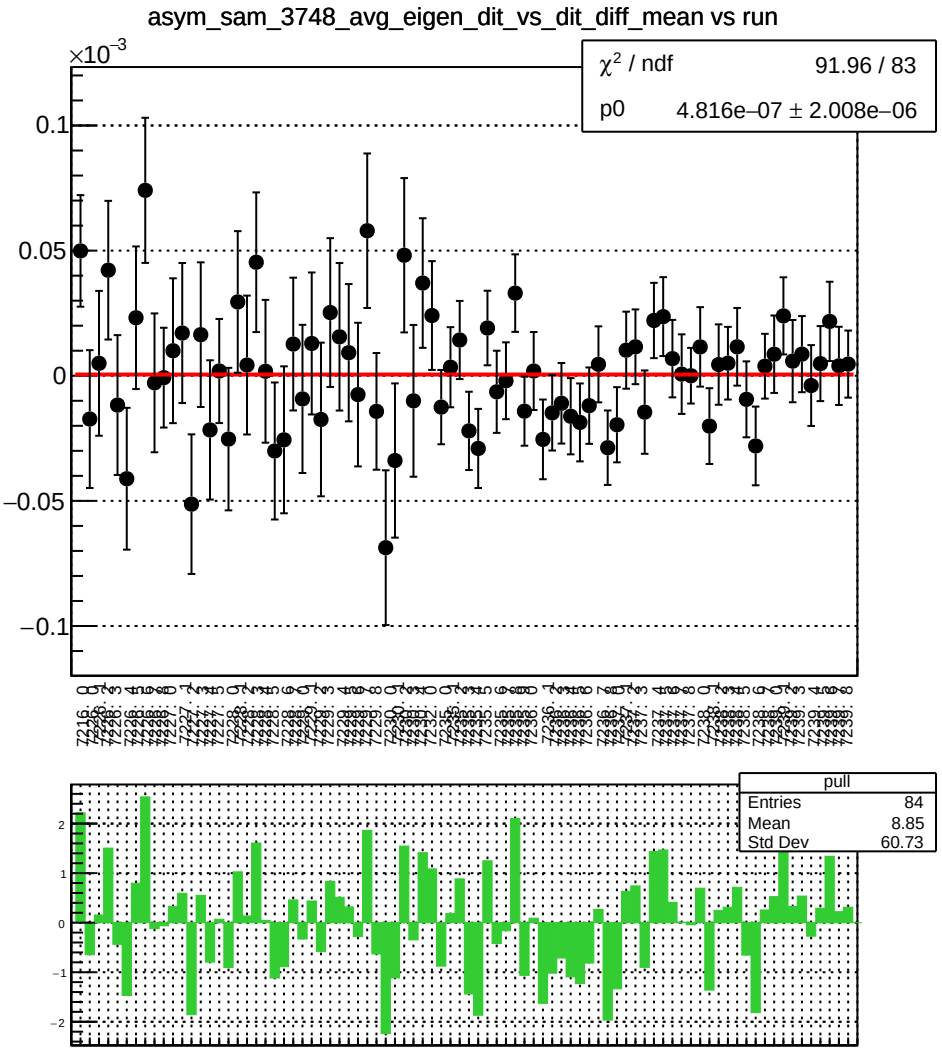

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.131e+06 / 83
p0 1.399e−11 ± 1.987e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

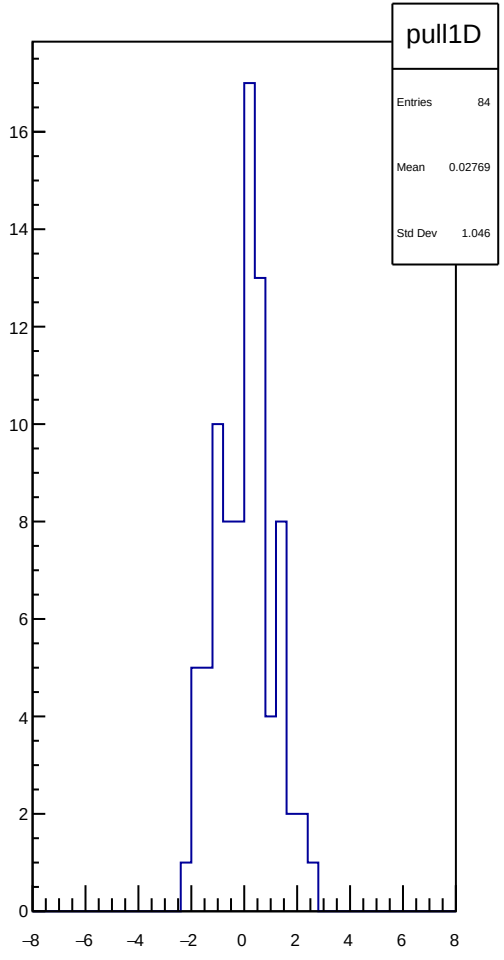

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 83.75 / 83
p0 −0.07304 ± 0.05053
pull
Entries 84
Mean 238.7
Std Dev 0
pull1D
Entries 84
Mean −0.01481
Std Dev 0.9984

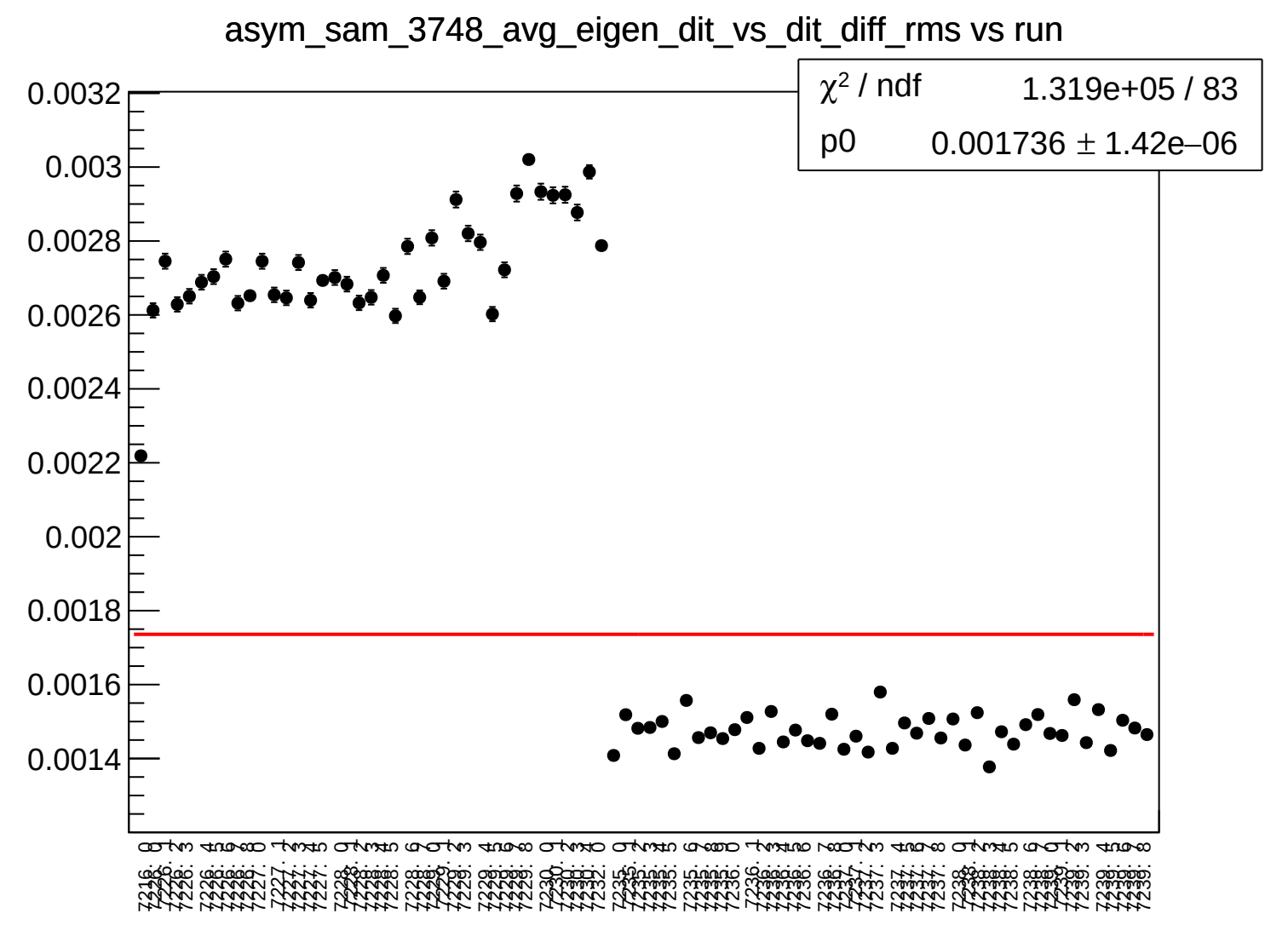

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.657e+04 / 83
p0 44.91 ± 0.03573
90
80
70
60
50
40

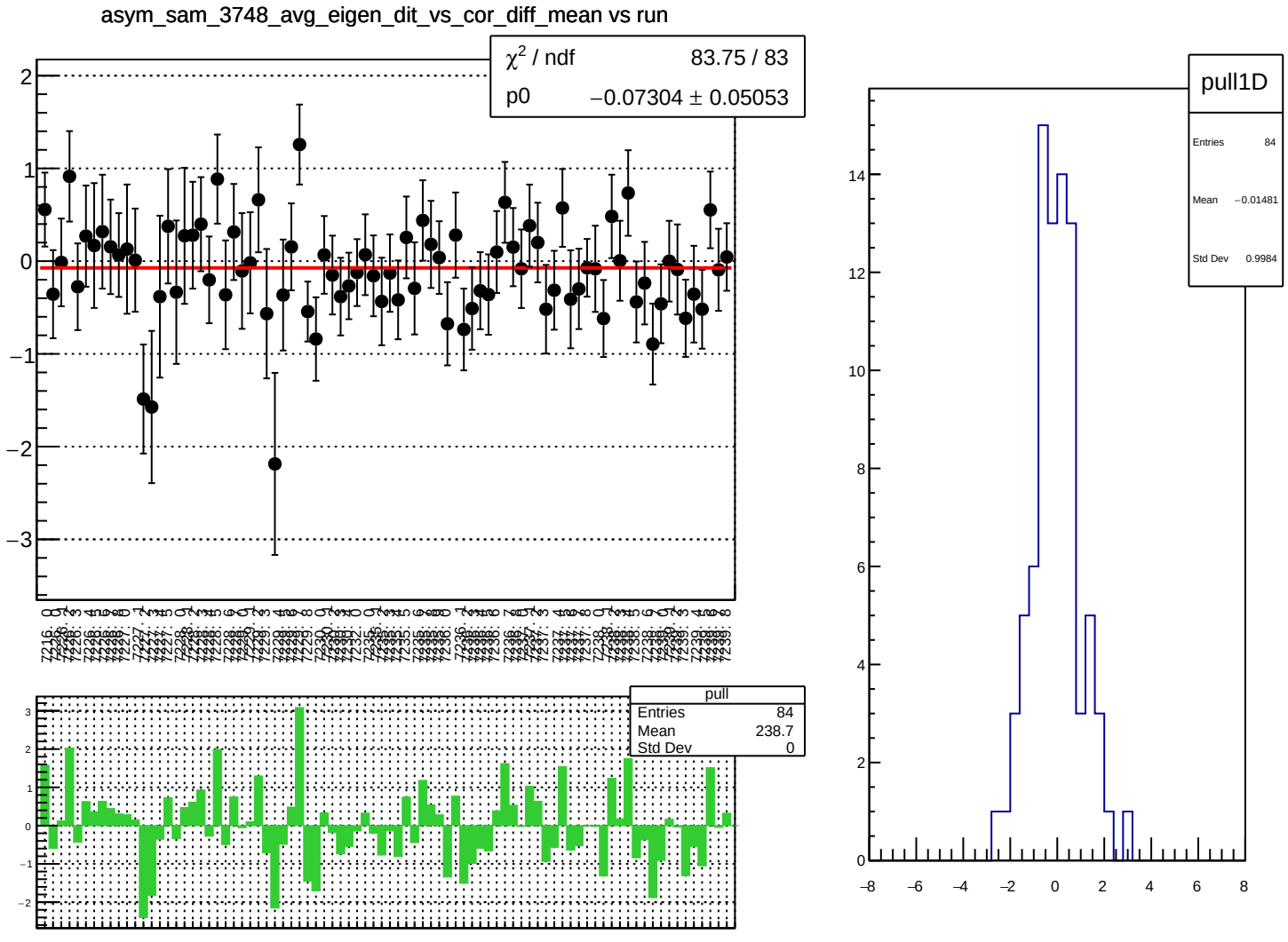

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.75 / 83
p0 −0.07304 ± 0.05053
pull
Entries 84
Mean 238.7
Std Dev 0
pull1D
Entries 84
Mean −0.01481
Std Dev 0.9984

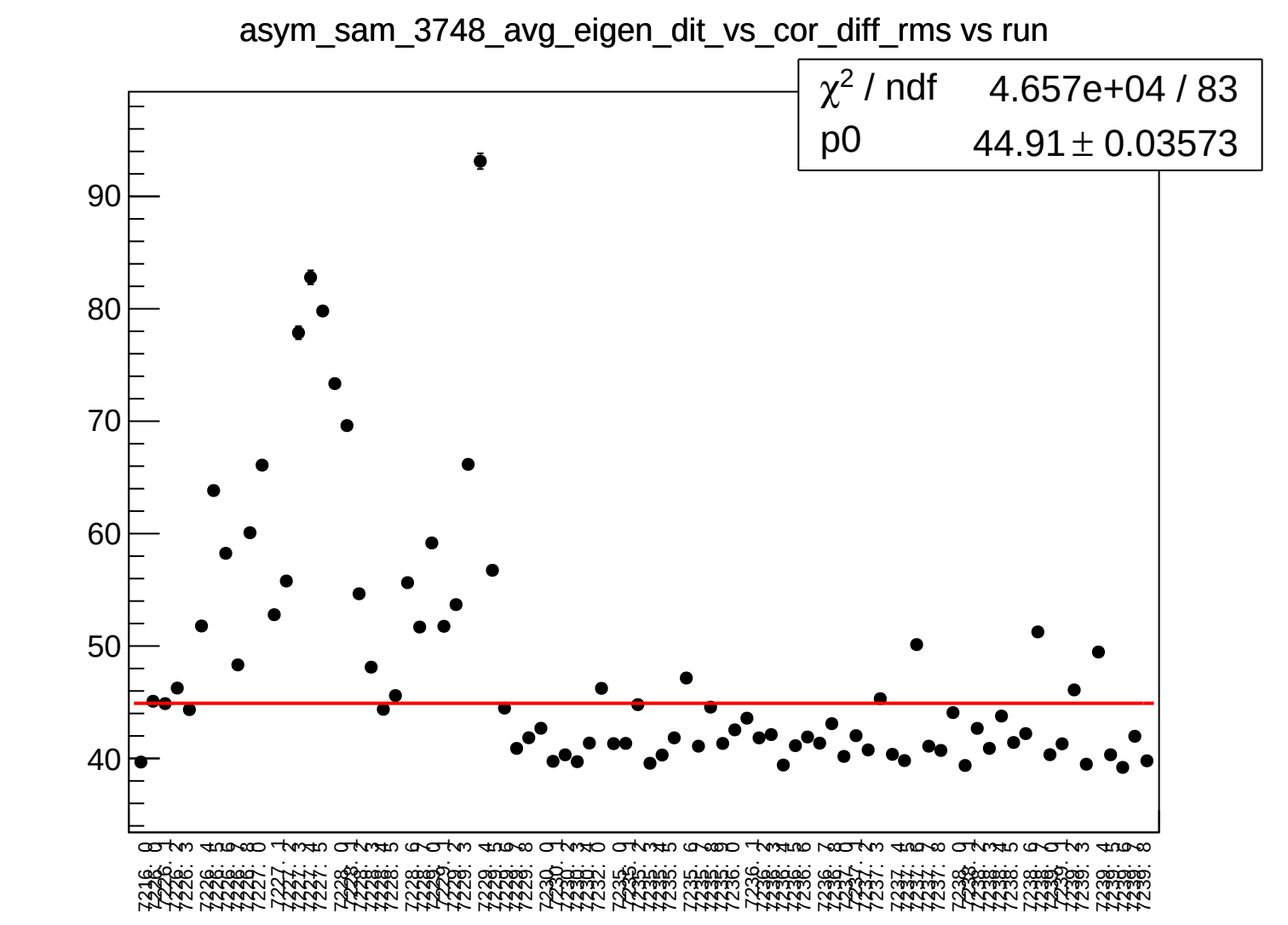

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 4.657e+04 / 83
p0 44.91 ± 0.03573
90
80
70
60
50
40

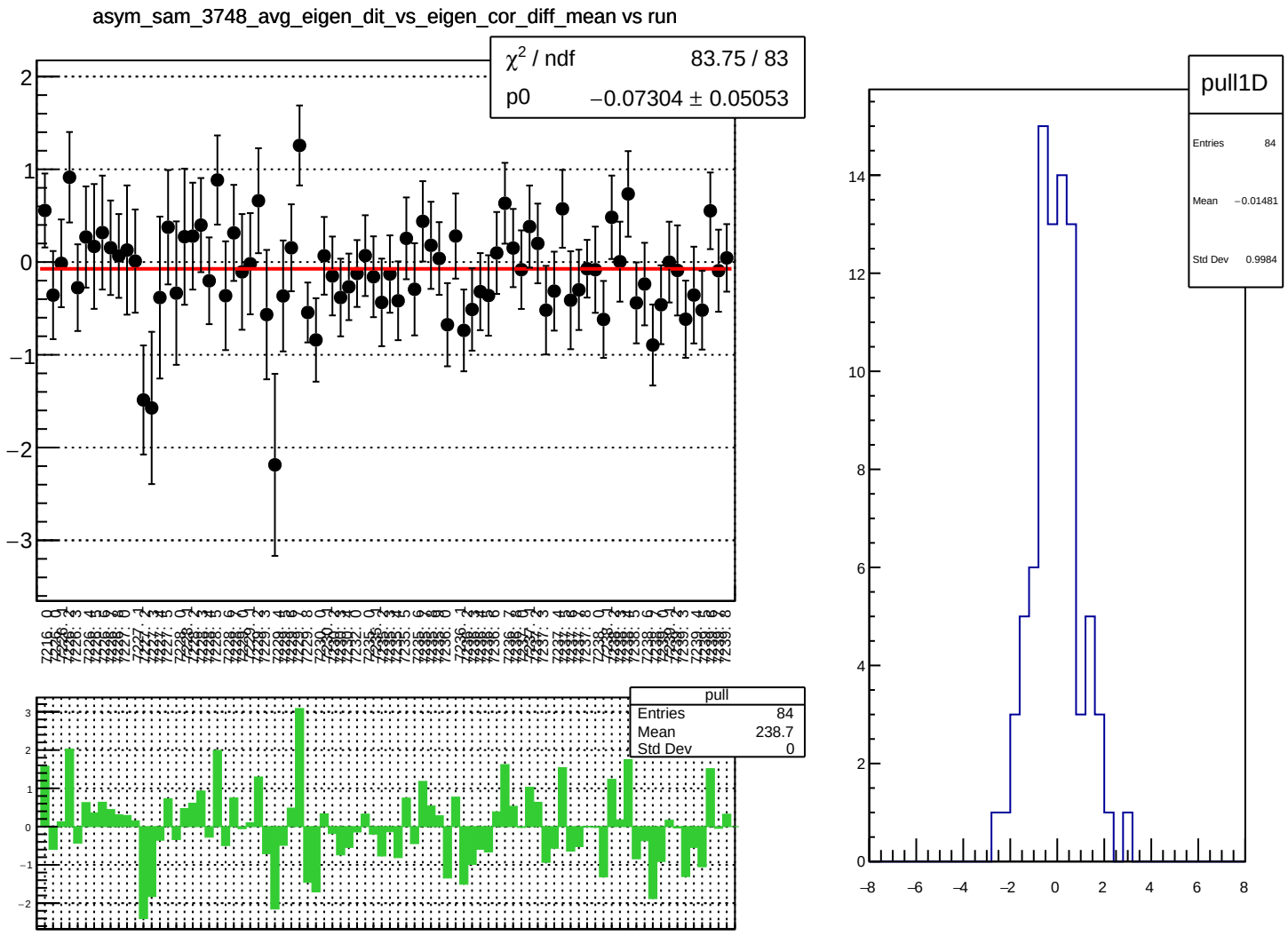

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.96 / 83
p0 4.816e−07 ± 2.008e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 84
Mean 8.85
Std Dev 60.73
2
1
0
−1
−2

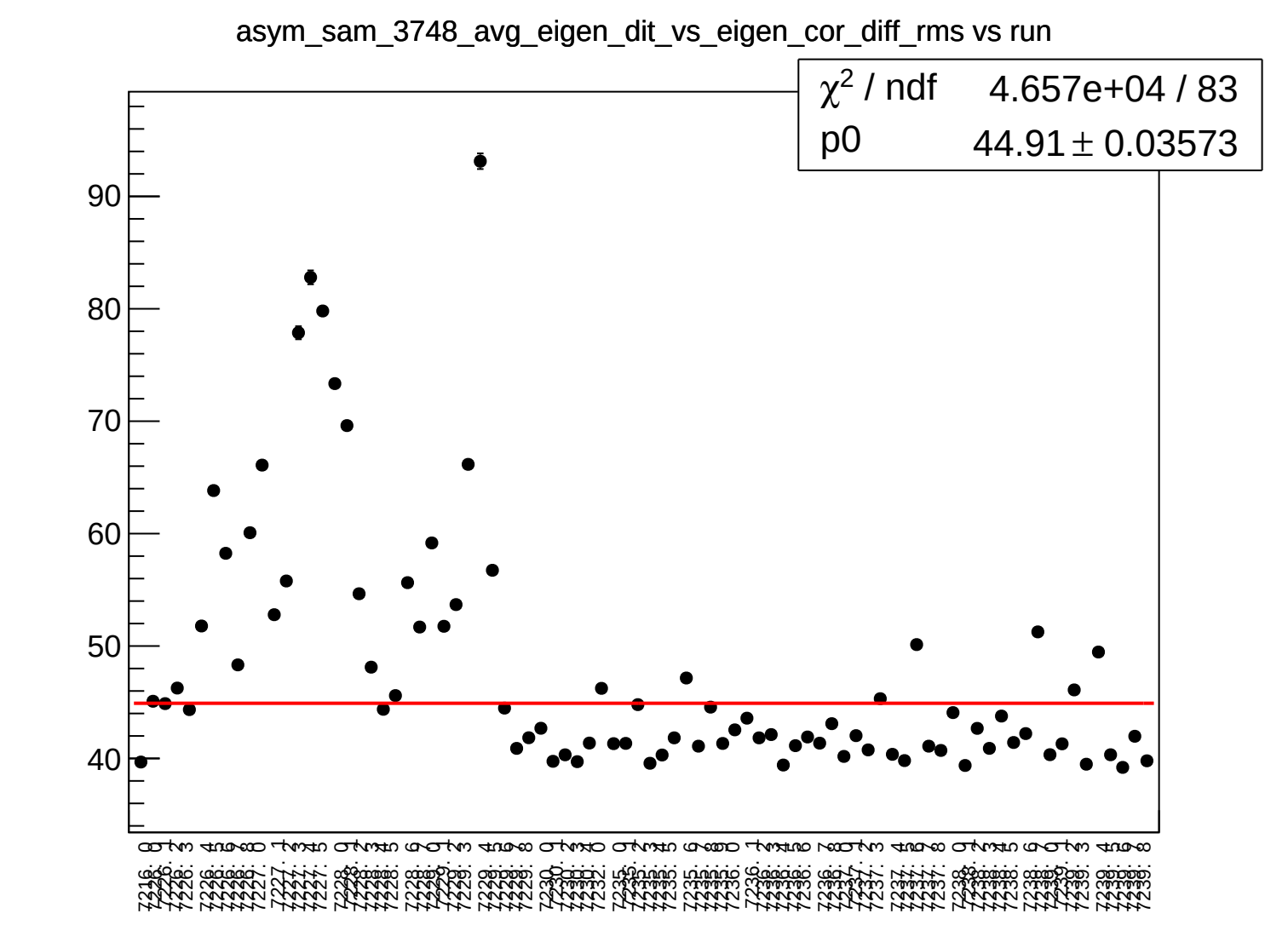

pull1D
Entries 84
Mean 0.02769
Std Dev 1.046
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

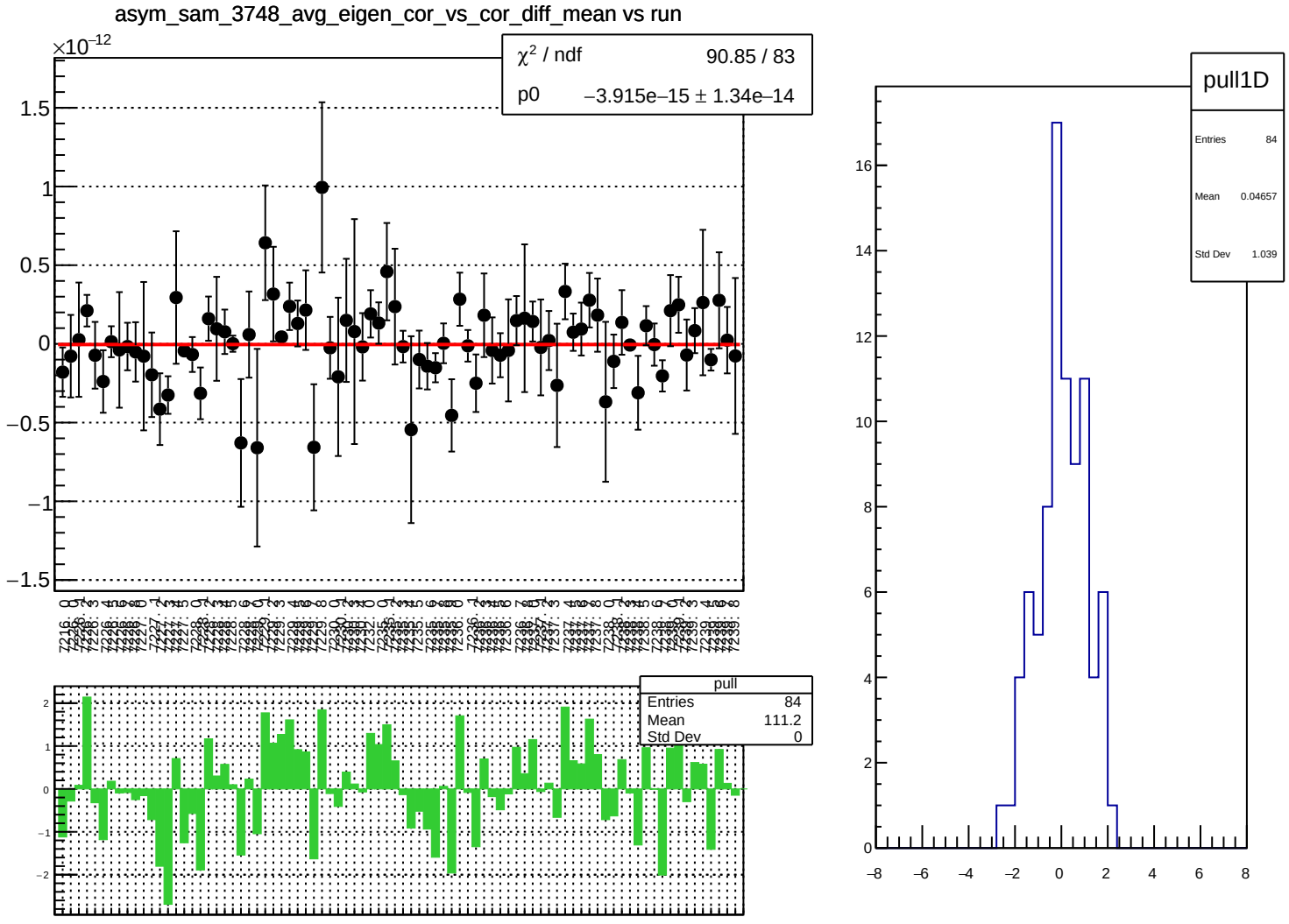

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.319e+05 / 83
p0 0.001736 ± 1.42e−06
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014

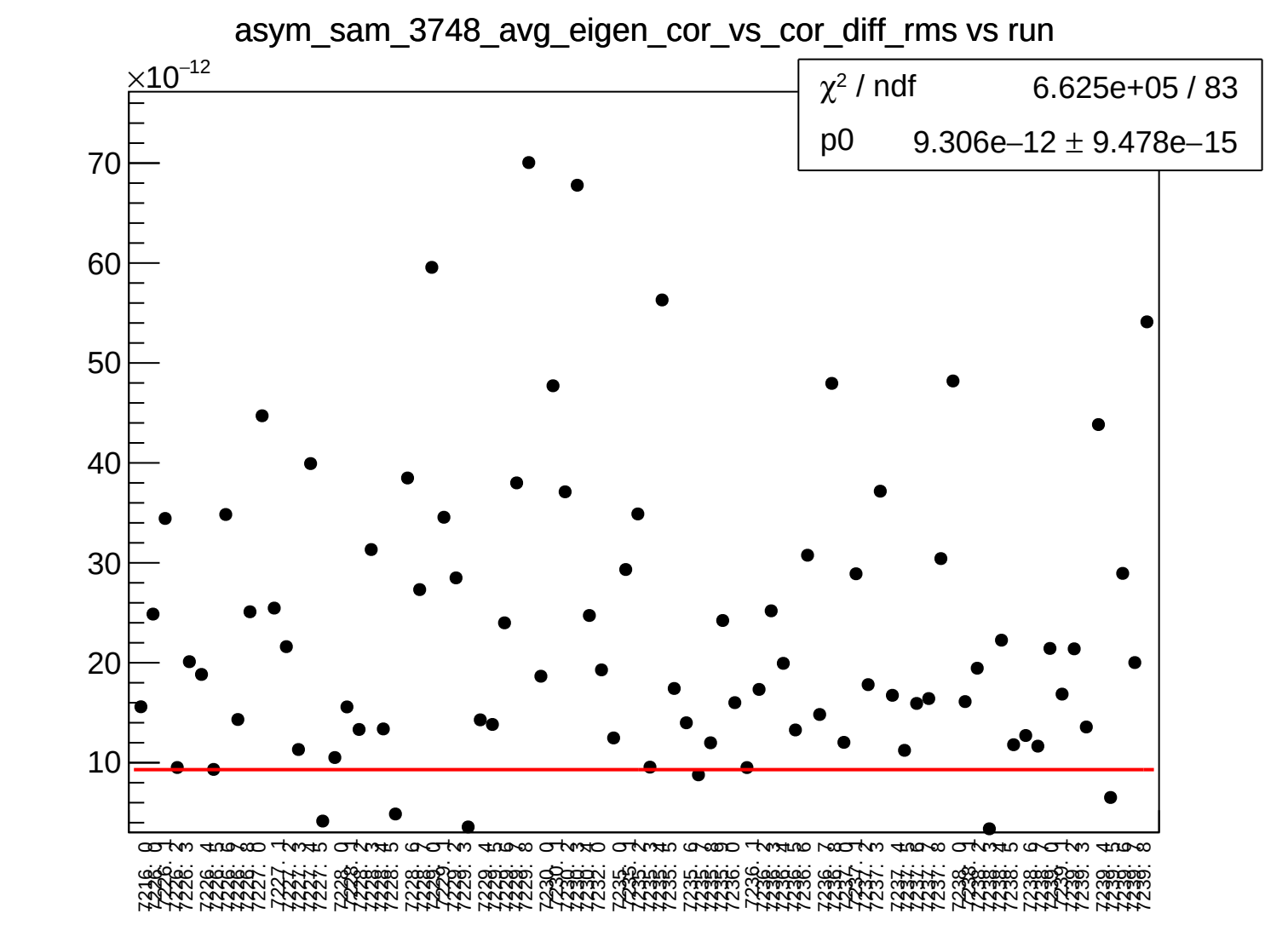

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.75 / 83
p0 −0.07304 ± 0.05053
pull
Entries 84
Mean 238.7
Std Dev 0
pull1D
Entries 84
Mean −0.01481
Std Dev 0.9984

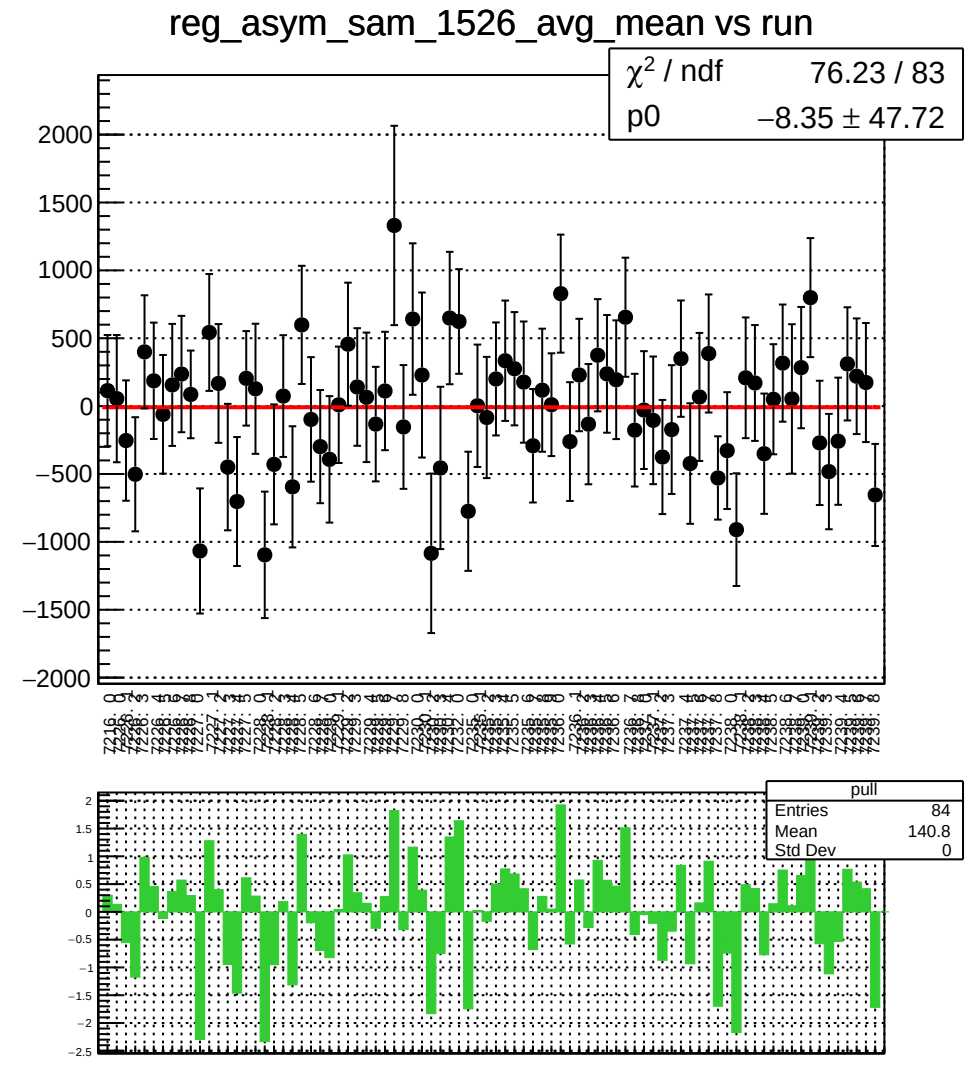

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.657e+04 / 83
p0 44.91 ± 0.03573
90
80
70
60
50
40

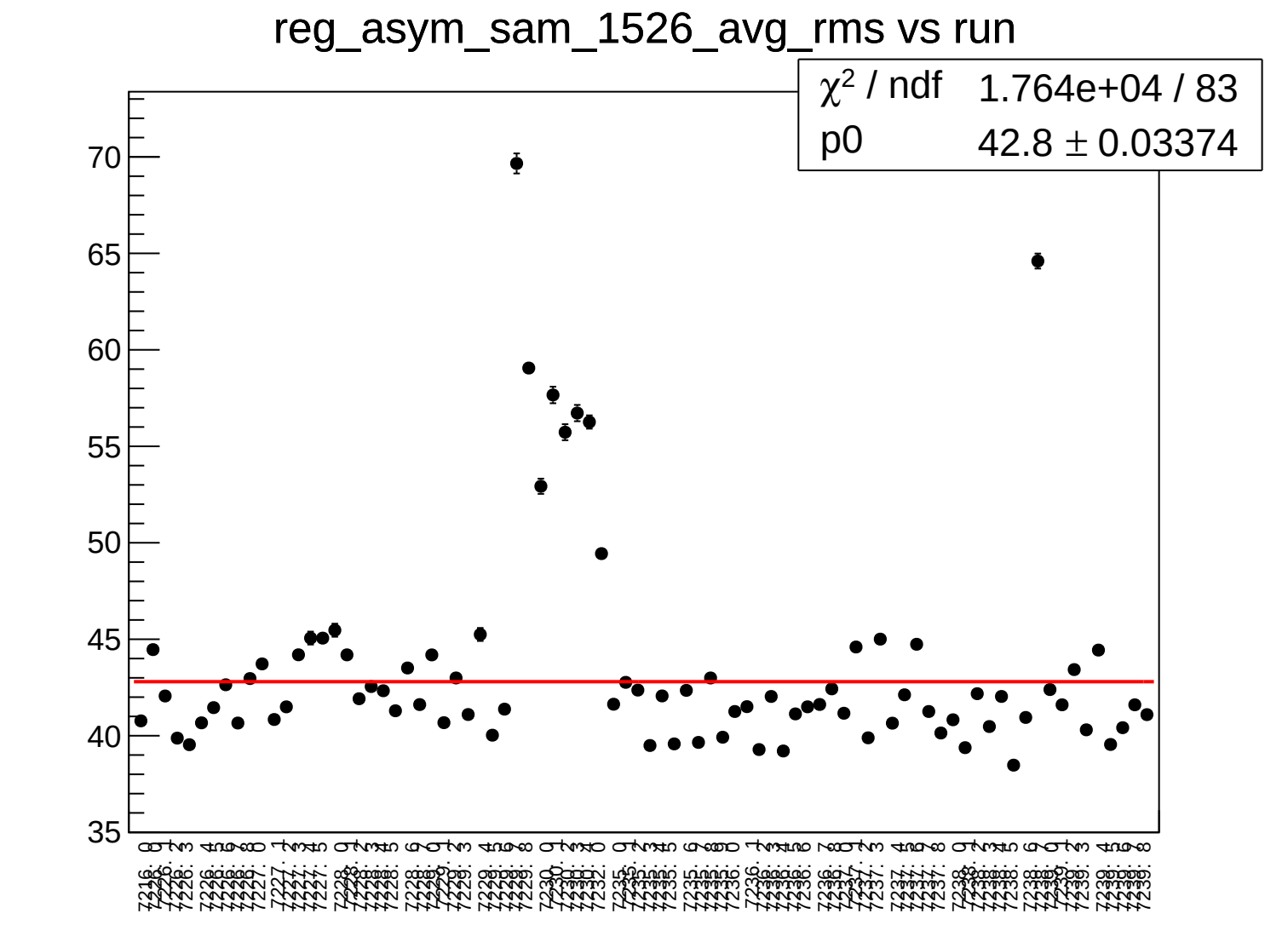

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.75 / 83
p0 −0.07304 ± 0.05053
pull
Entries 84
Mean 238.7
Std Dev 0
pull1D
Entries 84
Mean −0.01481
Std Dev 0.9984

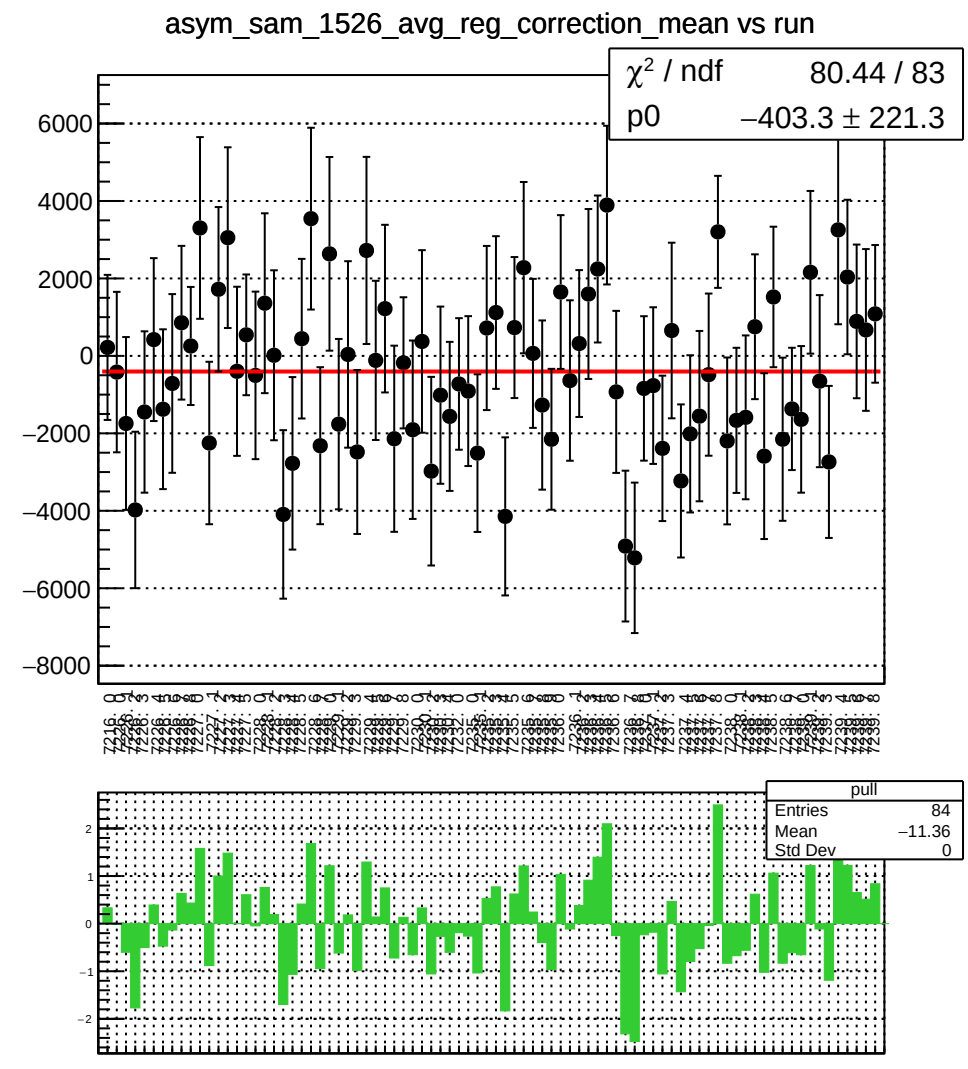

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 4.657e+04 / 83
p0 44.91 ± 0.03573
90
80
70
60
50
40

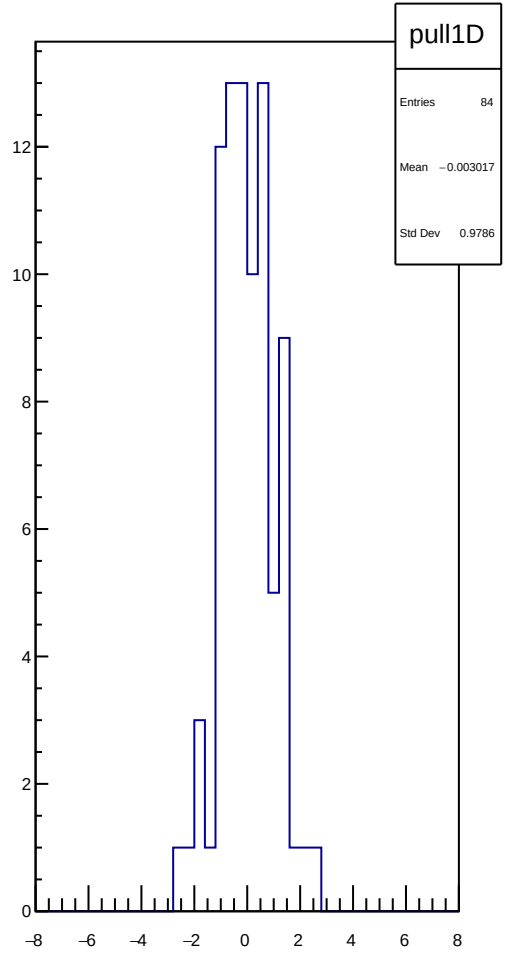

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.85 / 83
p0 −3.915e−15 ± 1.34e−14
pull
Entries 84
Mean 111.2
Std Dev 0
pull1D
Entries 84
Mean 0.04657
Std Dev 1.039

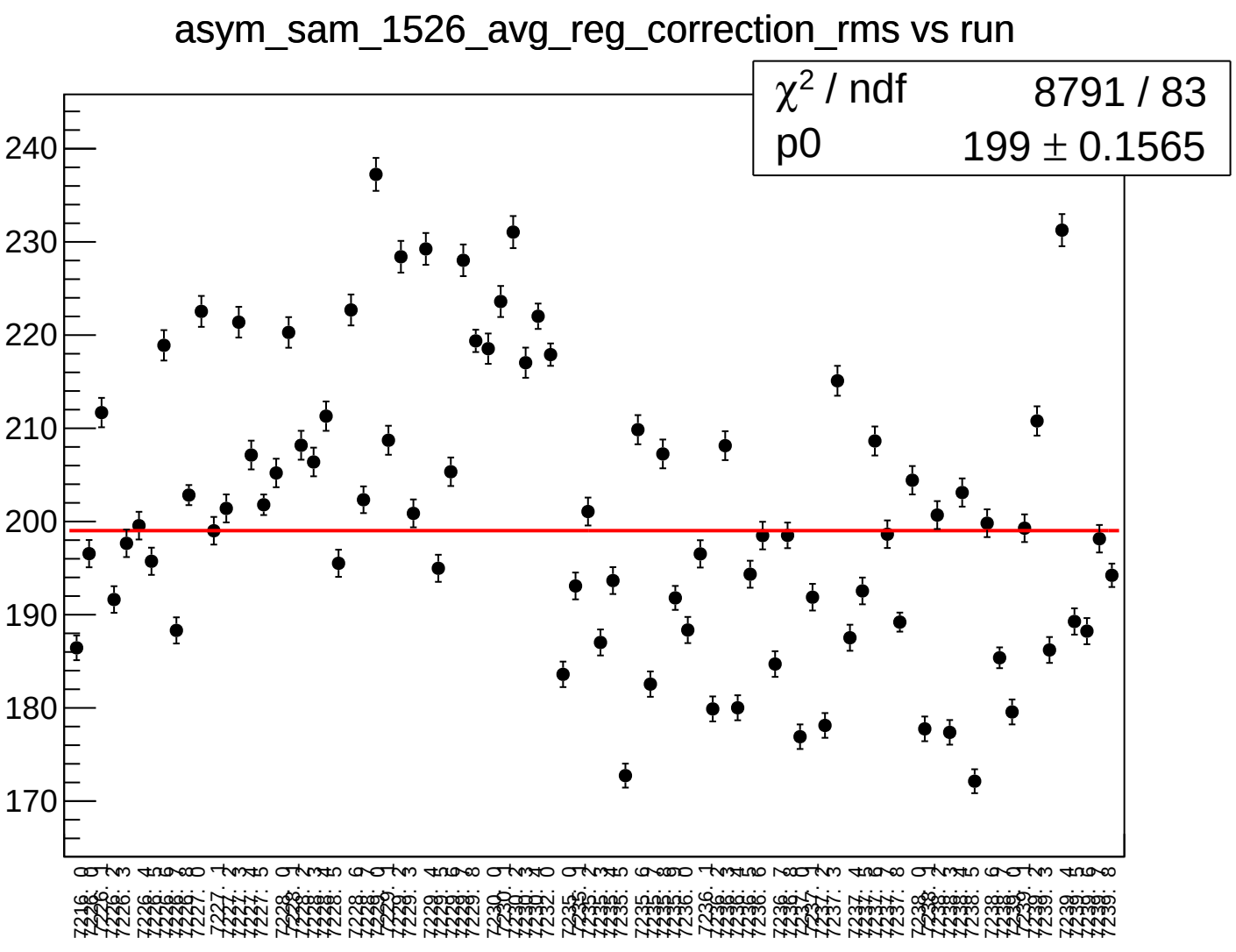

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.625e+05 / 83
p0 9.306e−12 ± 9.478e−15
70
60
50
40
30
20
10

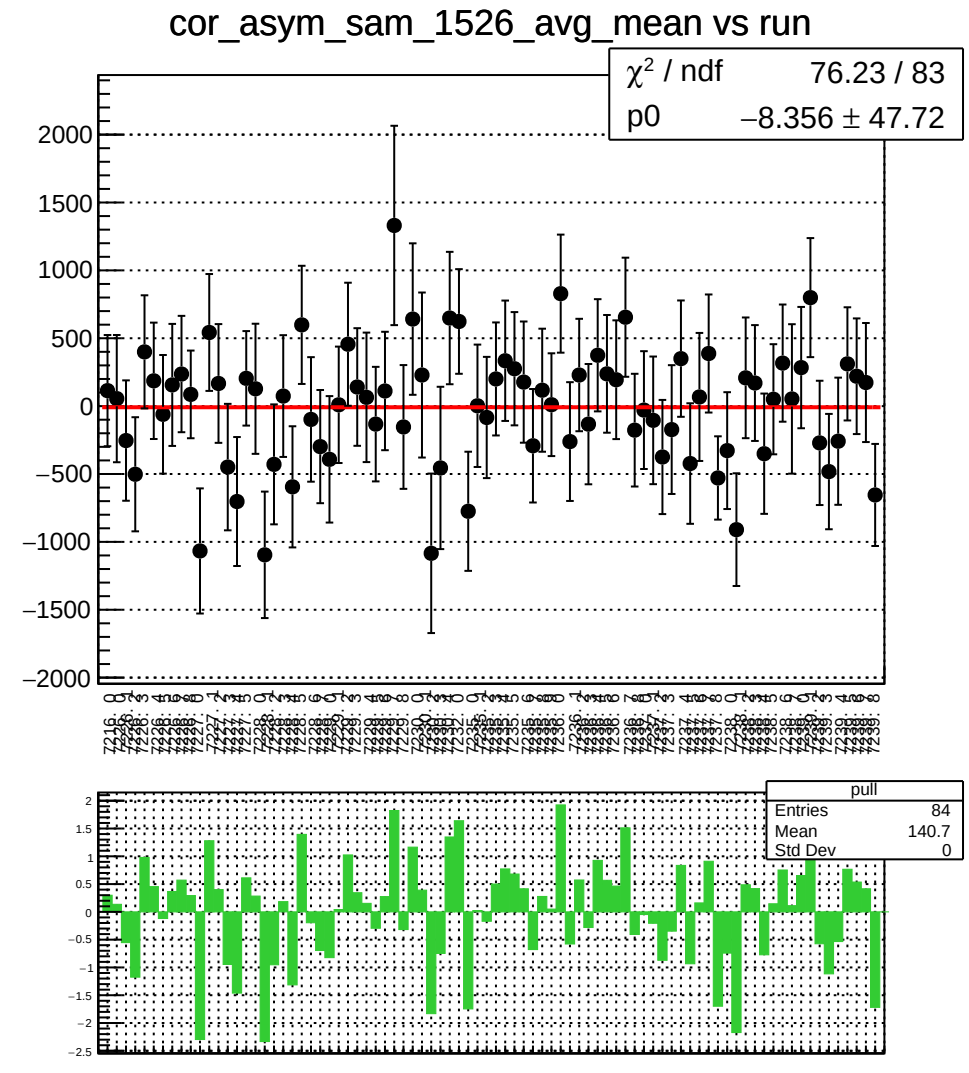

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 76.23 / 83
p0 −8.35 ± 47.72
pull
Entries 84
Mean 140.8
Std Dev 0
pull1D
Entries 84
Mean 0.006443
Std Dev 0.9526

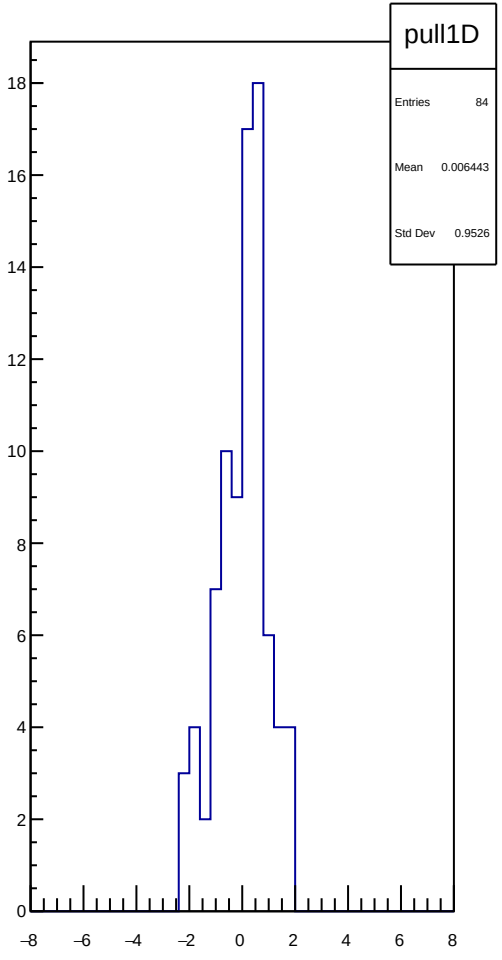

reg_asym_sam_1526_avg_rms vs run
χ^2 / ndf 1.764e+04 / 83
p0 42.8 ± 0.03374
70
65
60
55
50
45
40
35

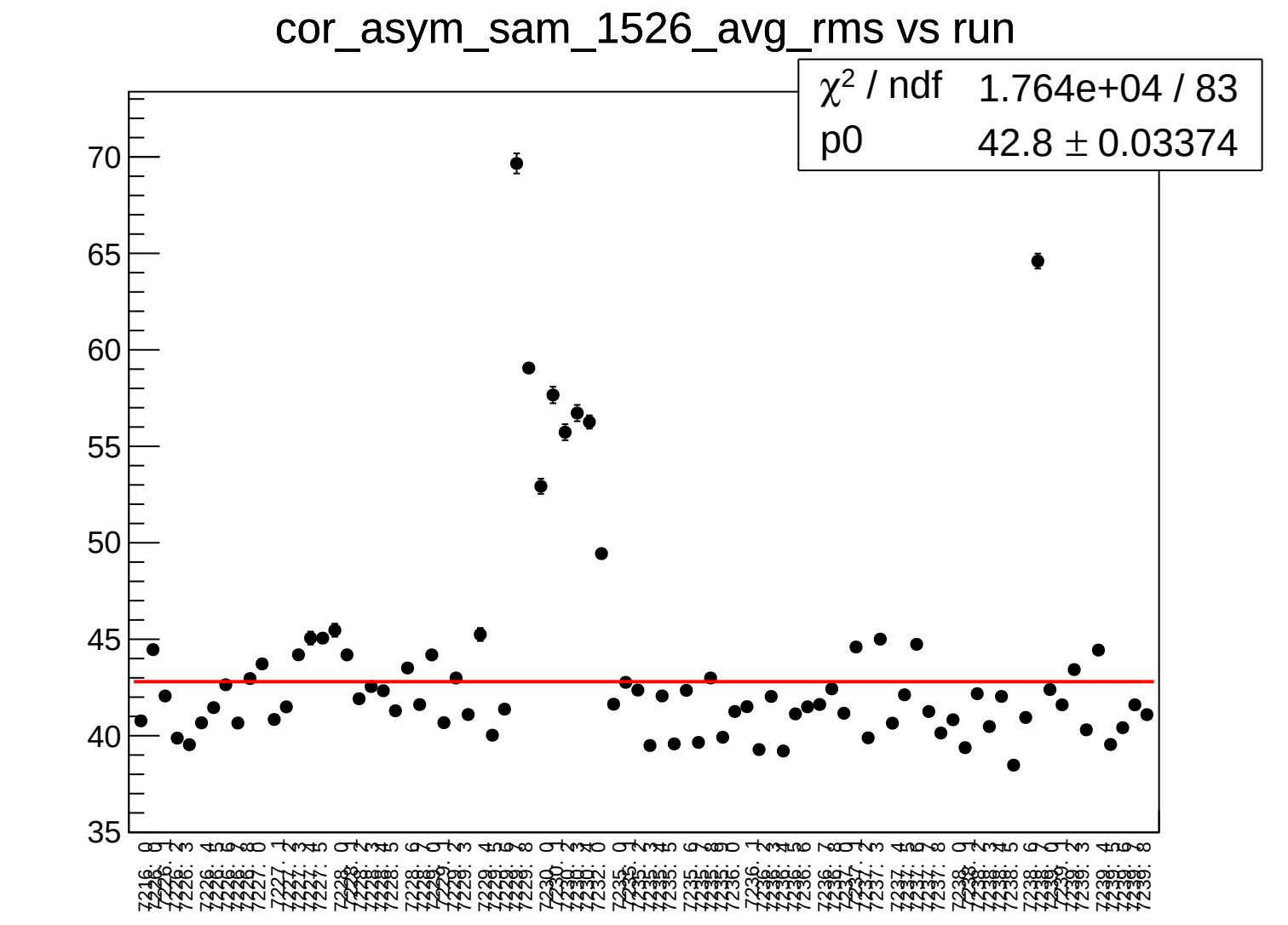

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 80.44 / 83
p0 −403.3 ± 221.3
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 84
Mean −11.36
Std Dev 0
2
1
0
−1
−2

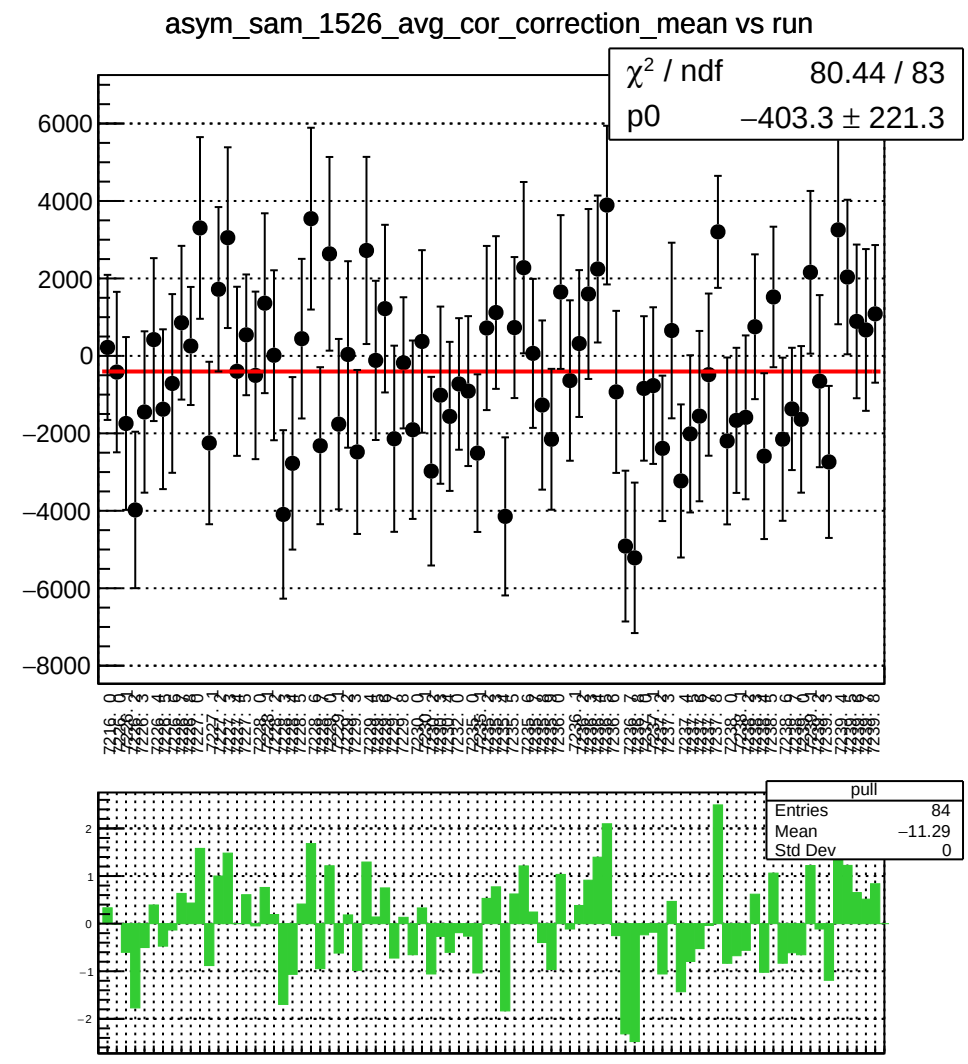

pull1D
Entries 84
Mean −0.003017
Std Dev 0.9786
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

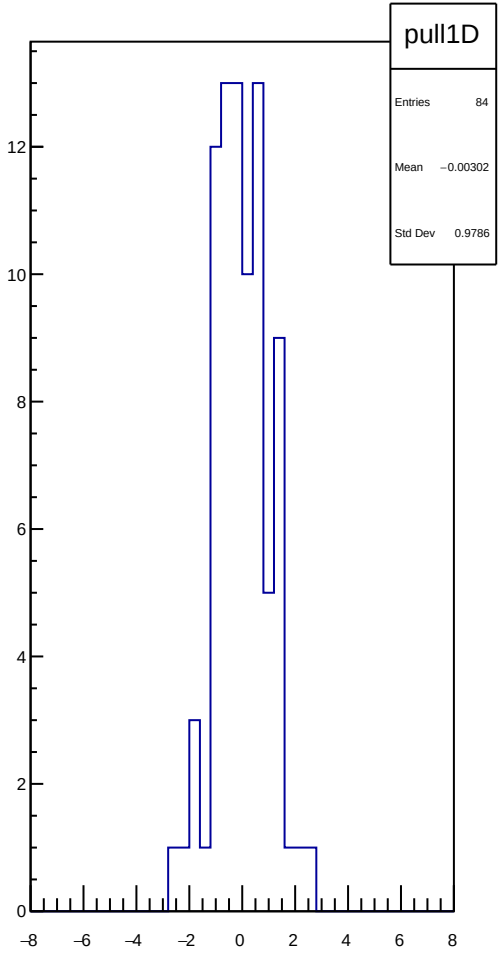

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 8791 / 83
p0 199 ± 0.1565
240
230
220
210
200
190
180
170

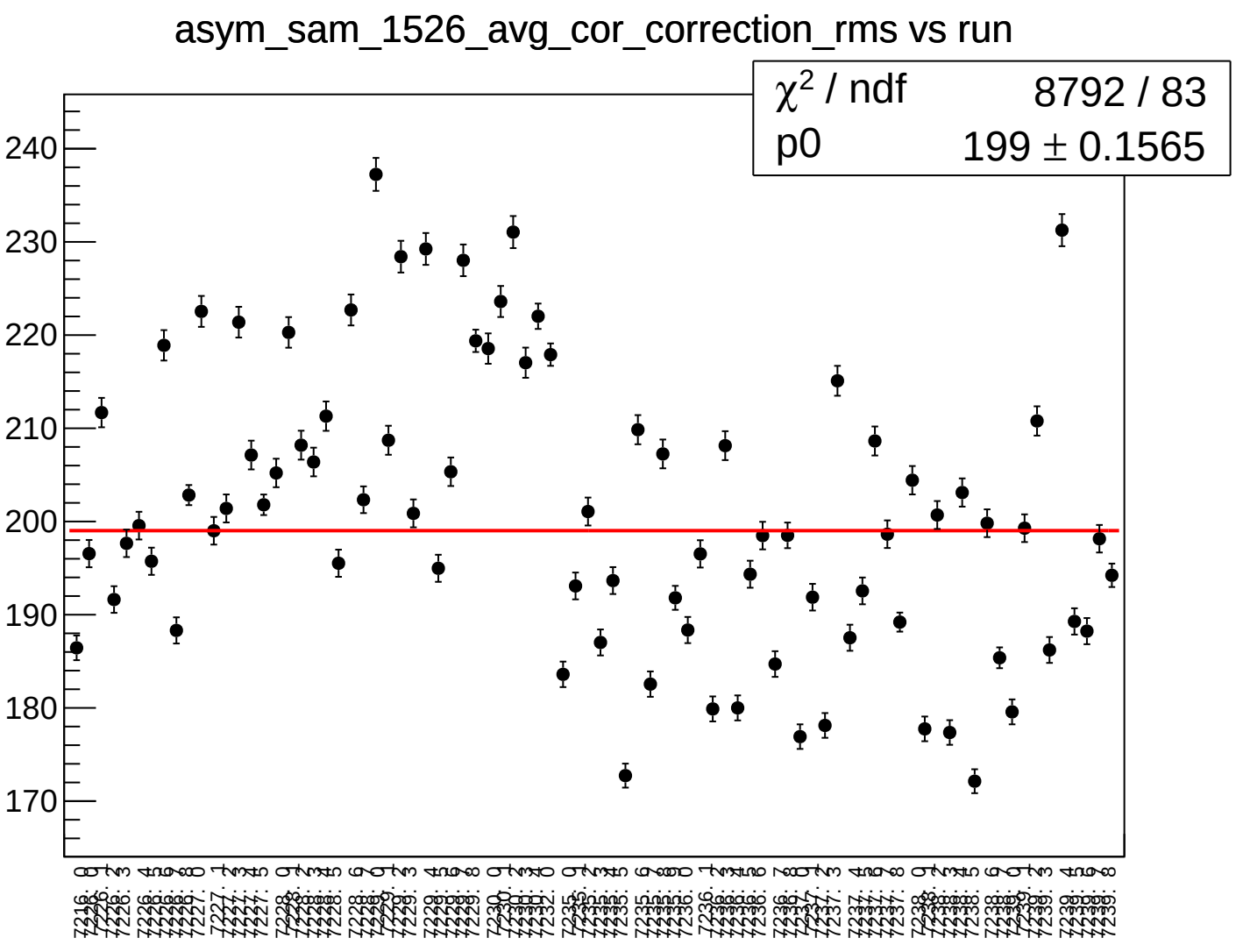

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 76.23 / 83
p0 −8.356 ± 47.72
pull
Entries 84
Mean 140.7
Std Dev 0

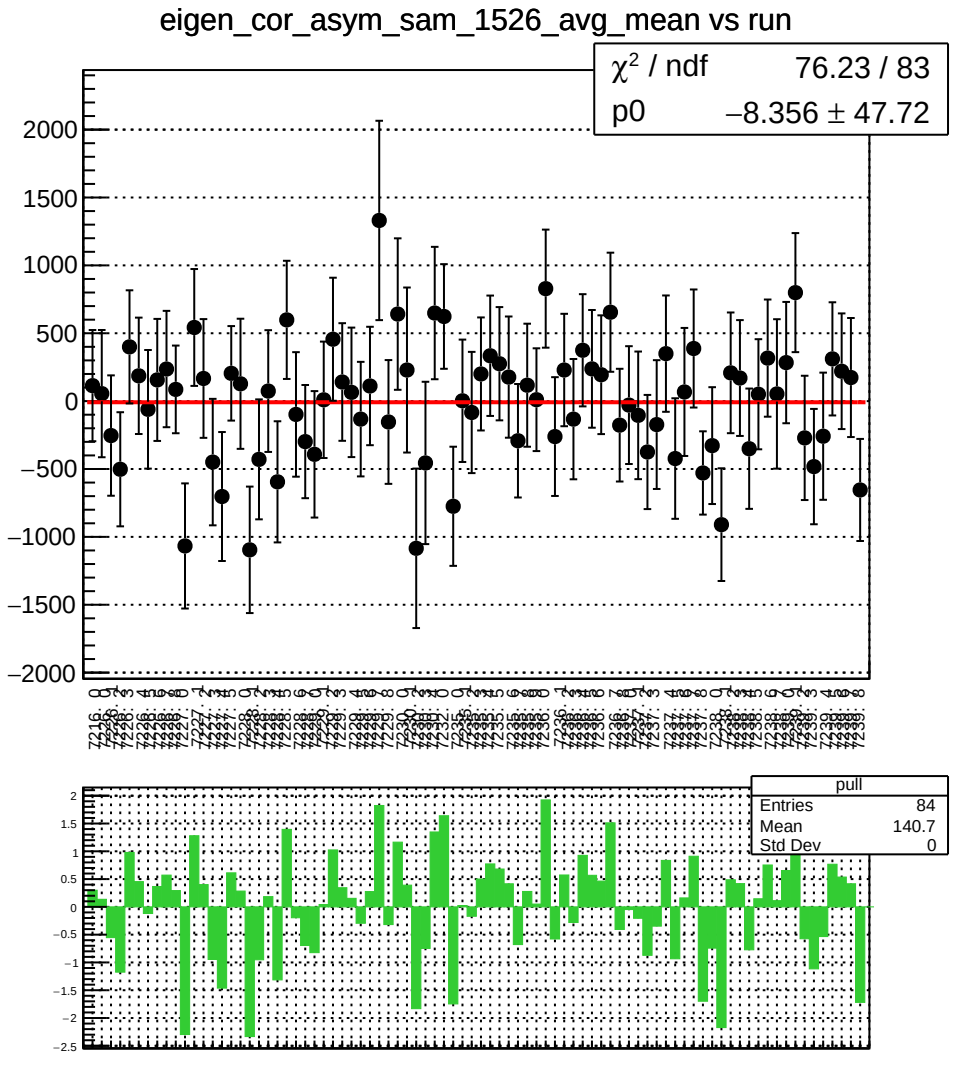

pull1D
Entries 84
Mean 0.006443
Std Dev 0.9526

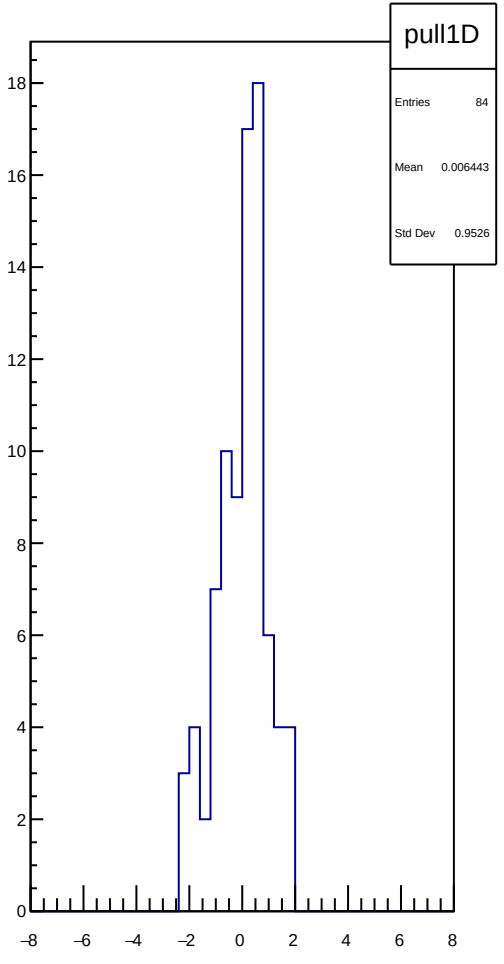

cor_asym_sam_1526_avg_rms vs run
χ^2 / ndf 1.764e+04 / 83
p0 42.8 ± 0.03374
70
65
60
55
50
45
40
35

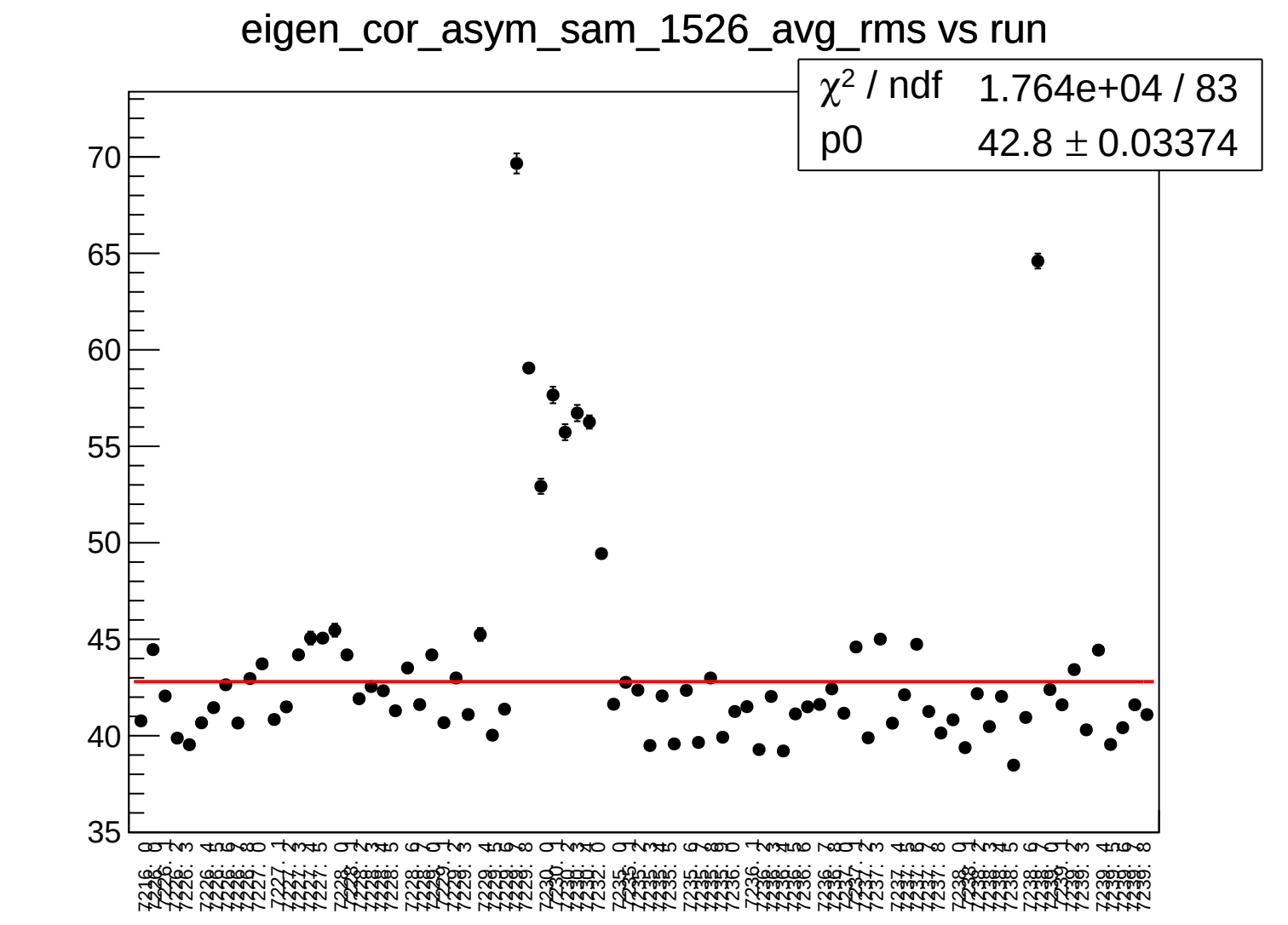

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 80.44 / 83
p0 −403.3 ± 221.3
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 84
Mean −11.29
Std Dev 0
2
1
0
−1
−2

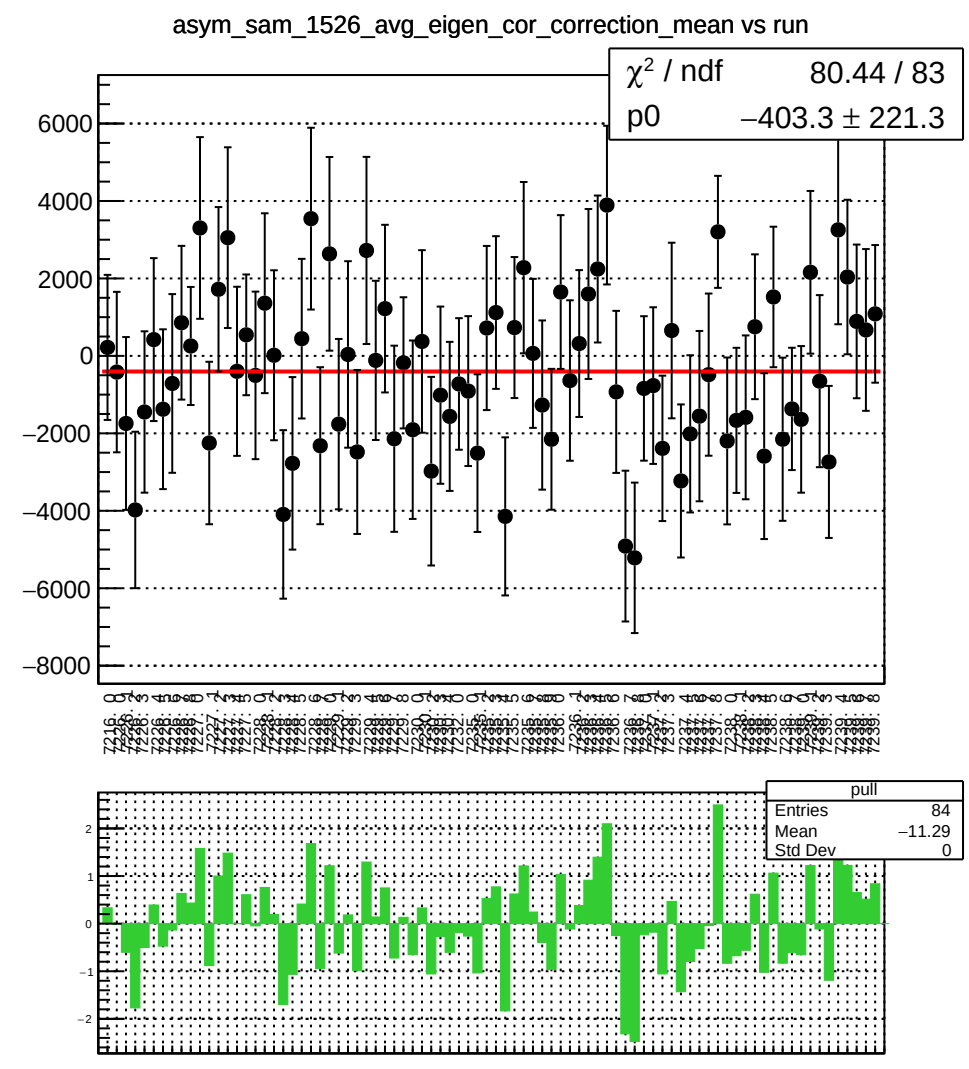

pull1D
Entries 84
Mean −0.00302
Std Dev 0.9786
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

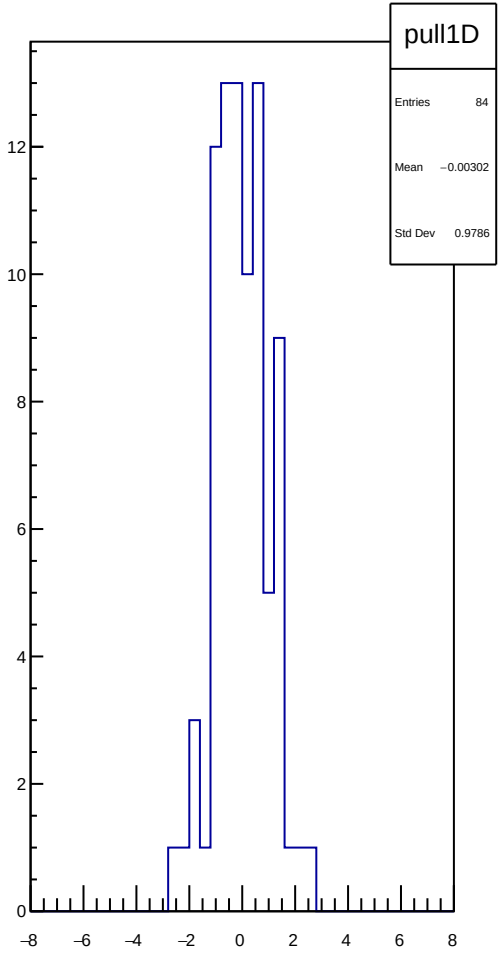

asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 8792 / 83
p0 199 ± 0.1565
240
230
220
210
200
190
180
170

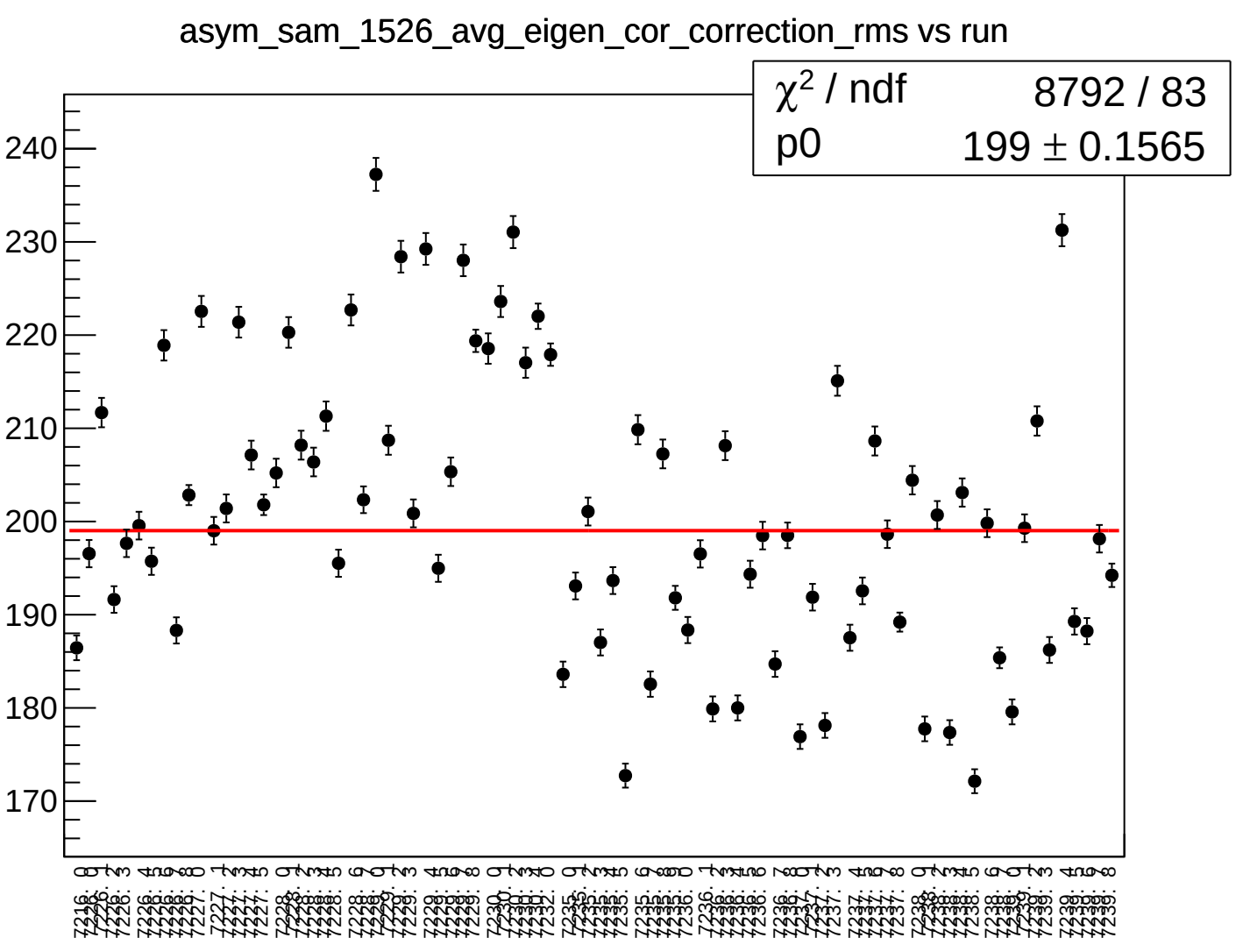

eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 76.23 / 83
p0 −8.356 ± 47.72
pull
Entries 84
Mean 140.7
Std Dev 0

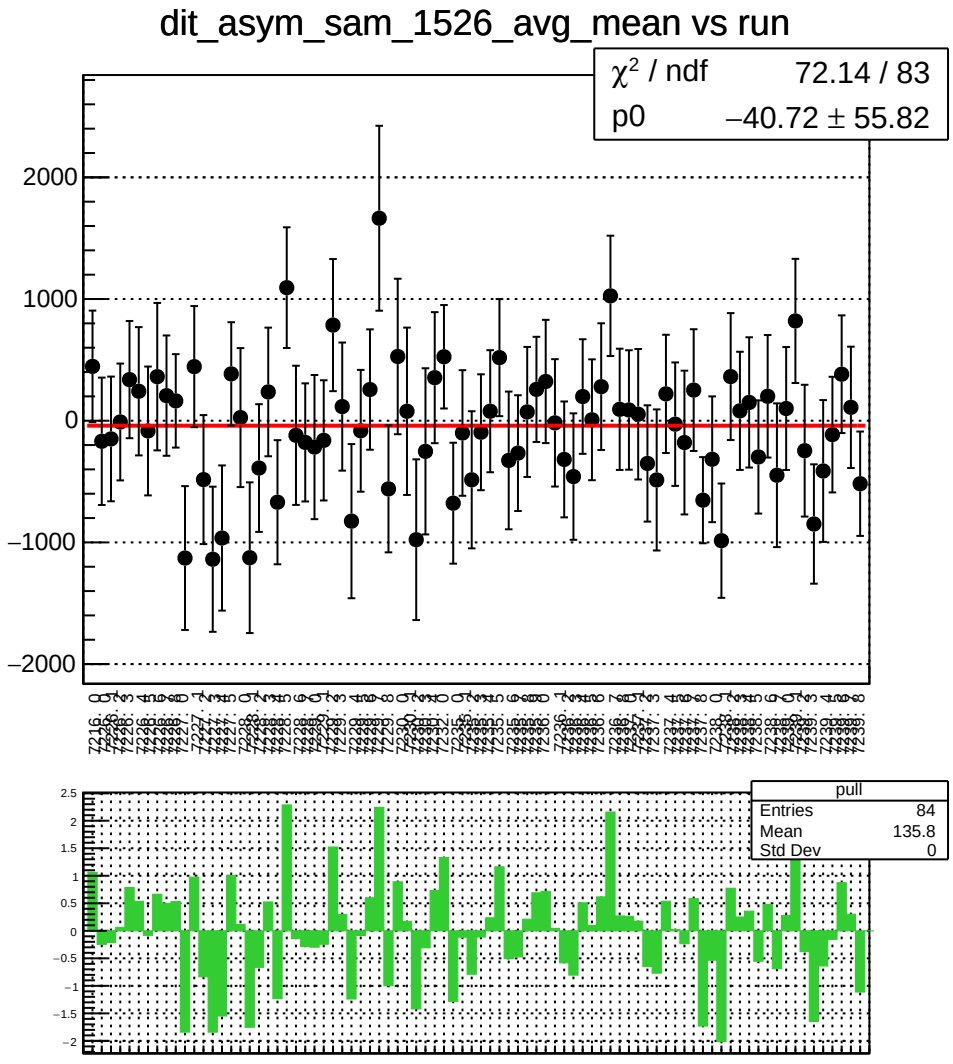

pull1D
Entries 84
Mean 0.006443
Std Dev 0.9526

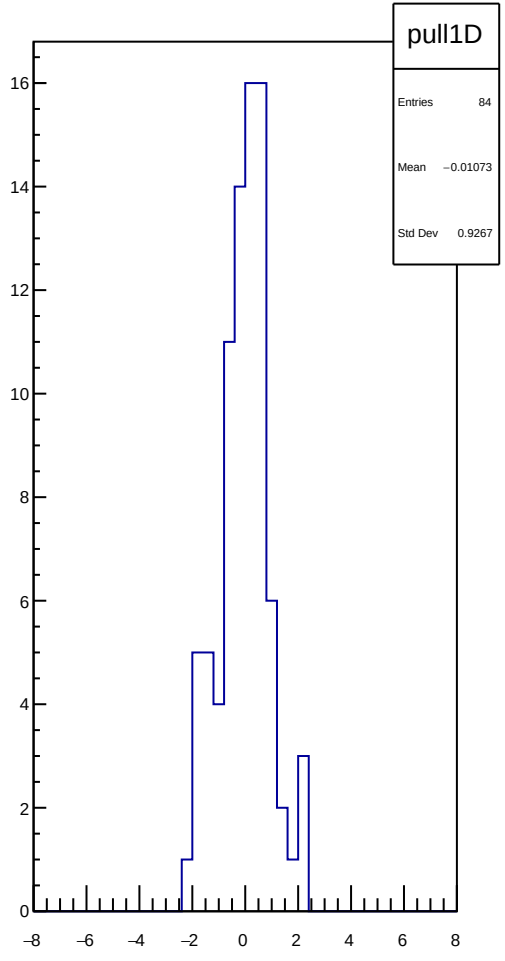

eigen_cor_asym_sam_1526_avg_rms vs run
χ^2 / ndf 1.764e+04 / 83
p0 42.8 ± 0.03374
70
65
60
55
50
45
40
35

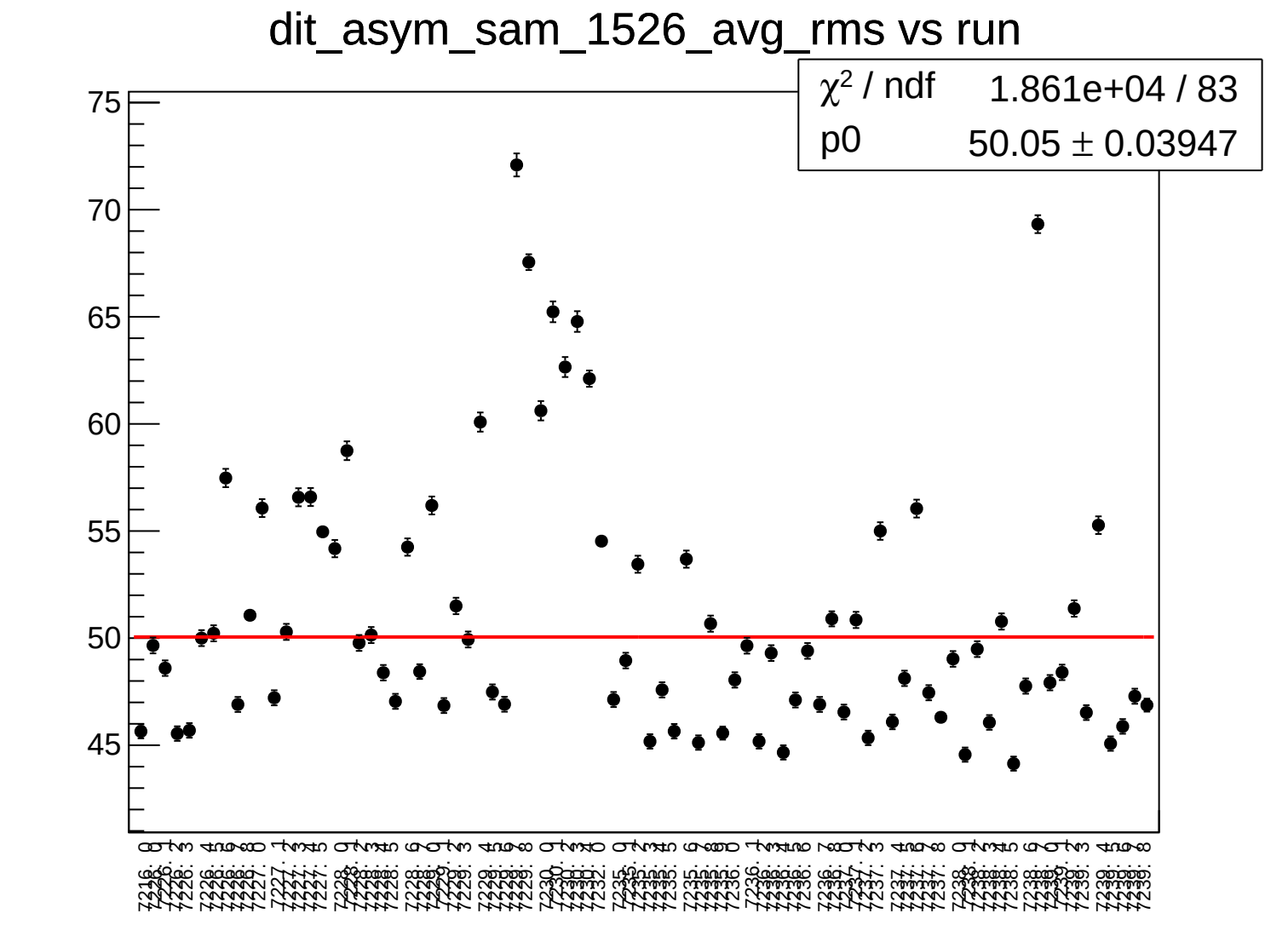

asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 80.44 / 83
p0 −403.3 ± 221.3
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 84
Mean −11.29
Std Dev 0
2
1
0
−1
−2

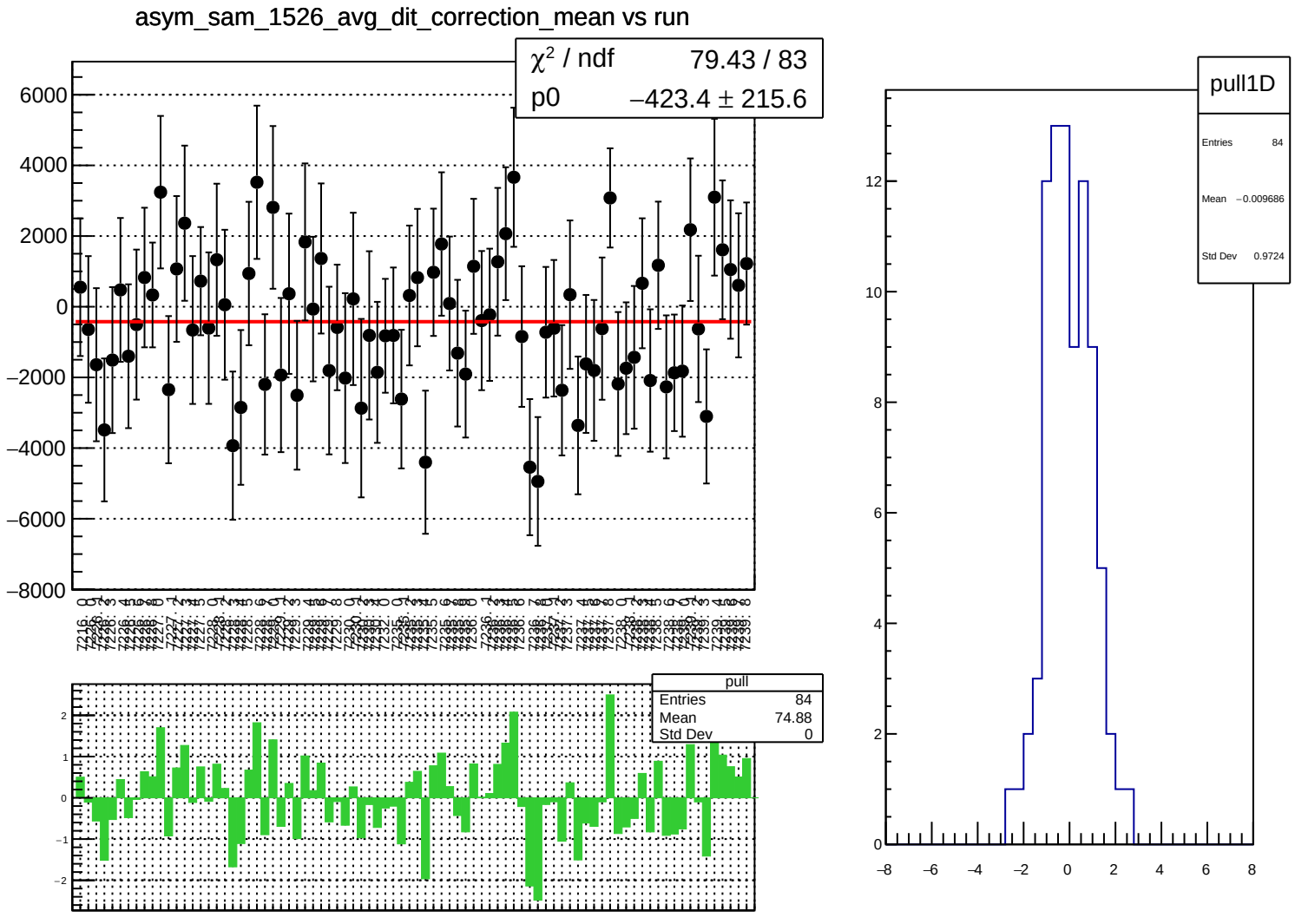

pull1D
Entries 84
Mean −0.00302
Std Dev 0.9786
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

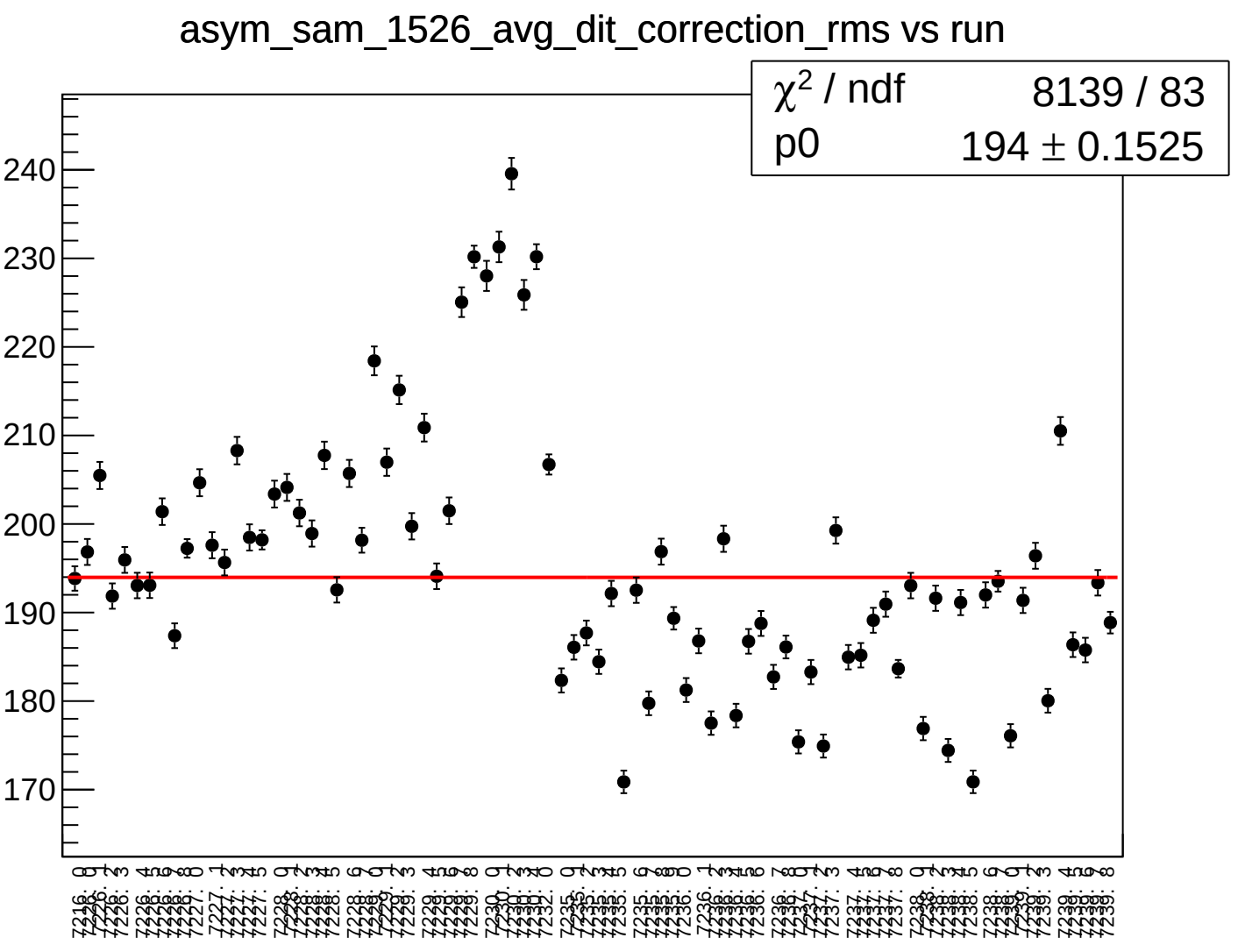

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 8792 / 83
p0 199 ± 0.1565
240
230
220
210
200
190
180
170

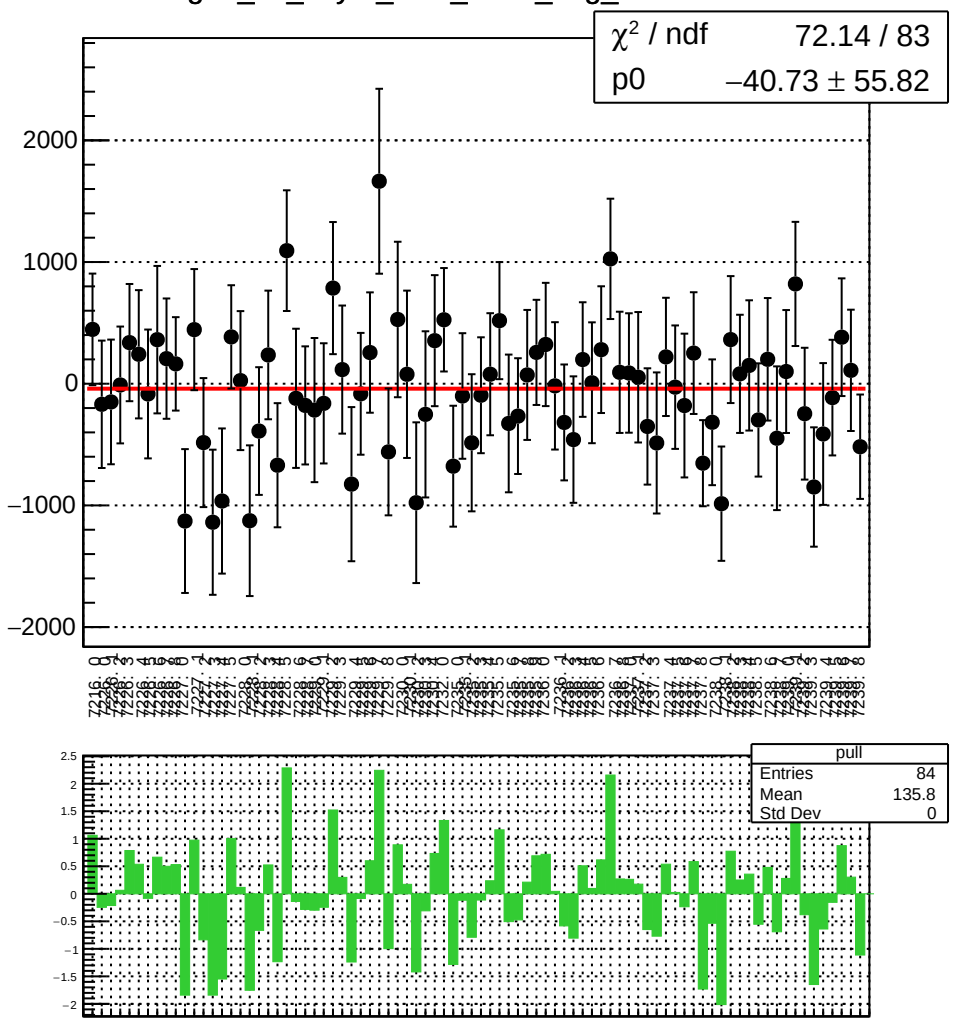

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 72.14 / 83
p0 −40.72 ± 55.82
2000
1000
0
−1000
−2000
pull
Entries 84
Mean 135.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

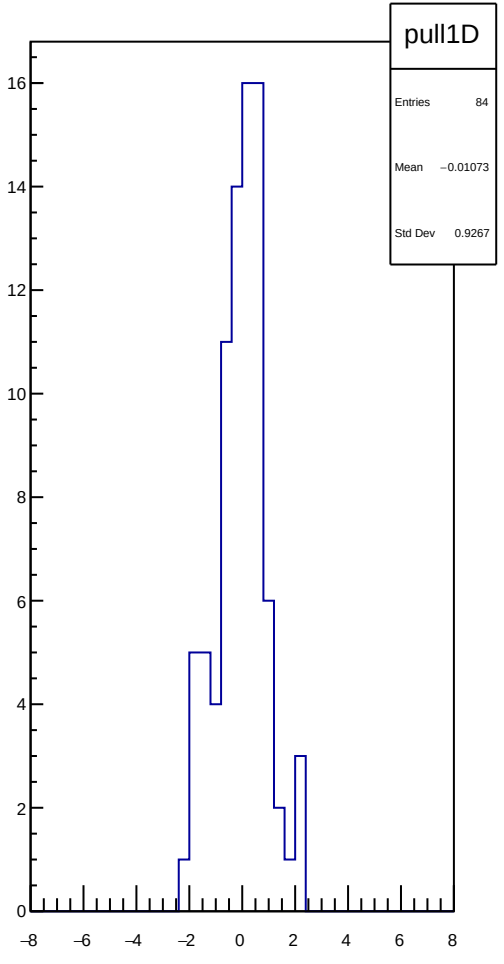

pull1D
Entries 84
Mean −0.01073
Std Dev 0.9267
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

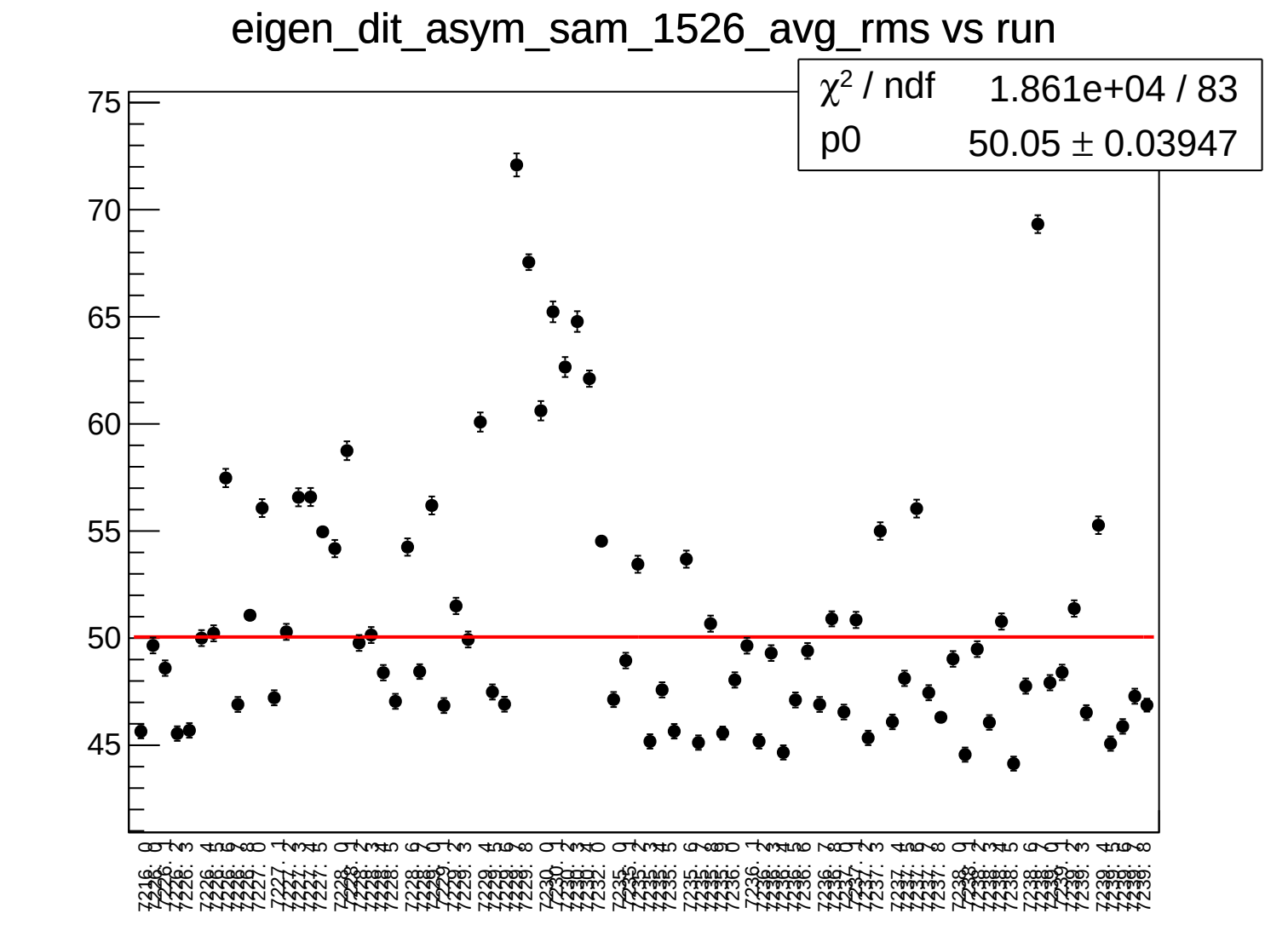

dit_asym_sam_1526_avg_rms vs run
χ² / ndf 1.861e+04 / 83
p0 50.05 ± 0.03947
75
70
65
60
55
50
45

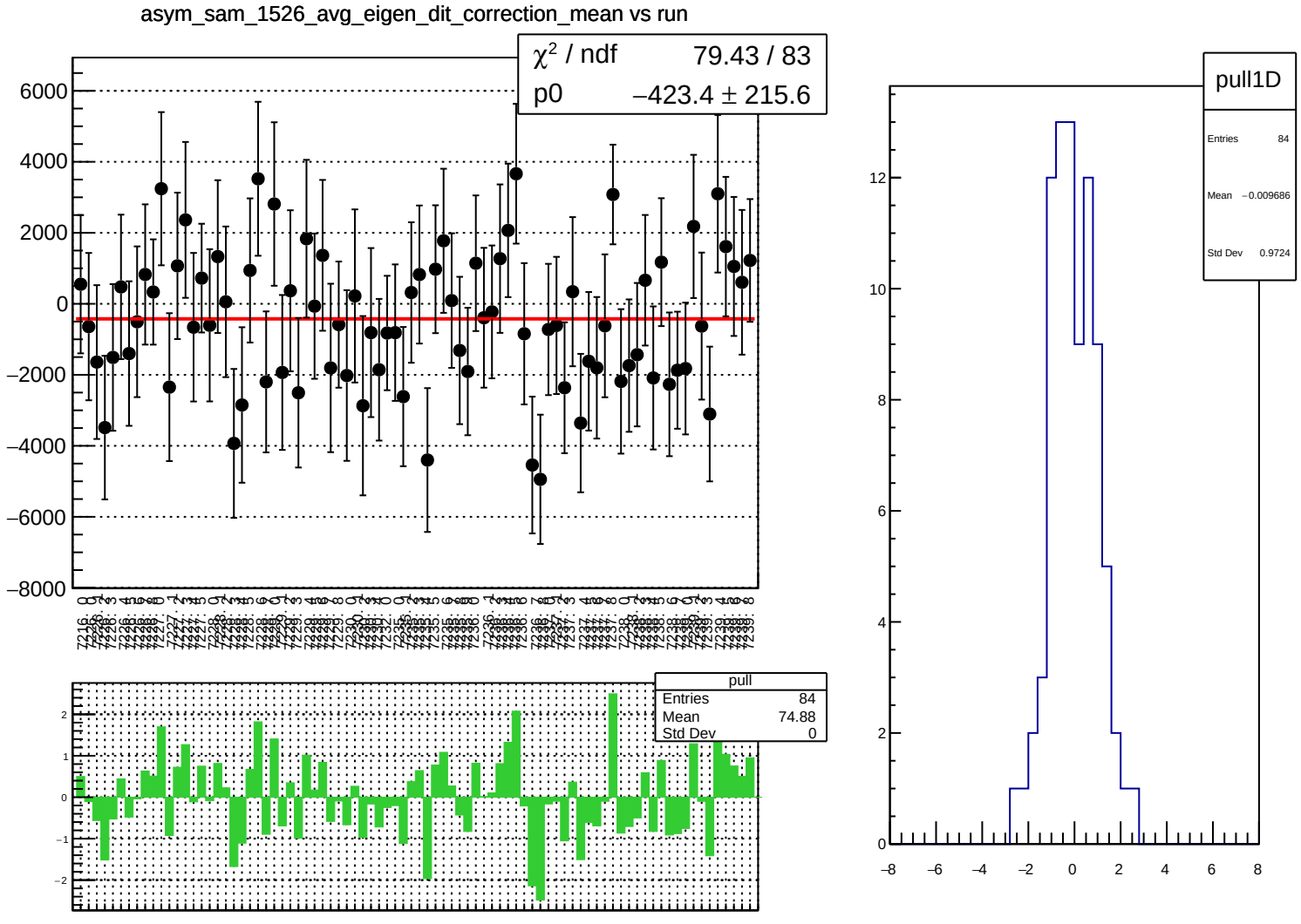

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 79.43 / 83
p0 −423.4 ± 215.6
pull
Entries 84
Mean 74.88
Std Dev 0
pull1D
Entries 84
Mean −0.009686
Std Dev 0.9724

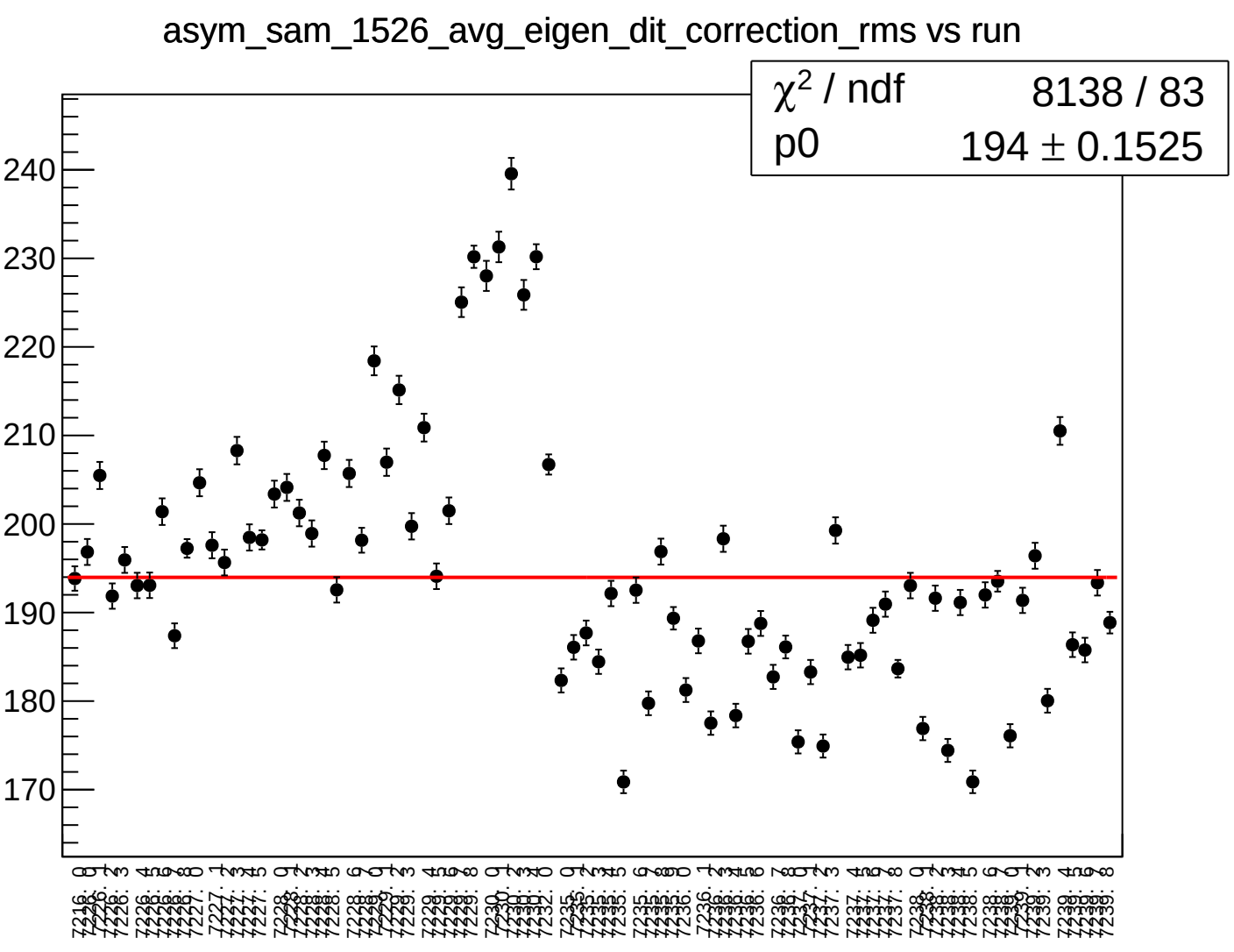

asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 8139 / 83
p0 194 ± 0.1525
240
230
220
210
200
190
180
170

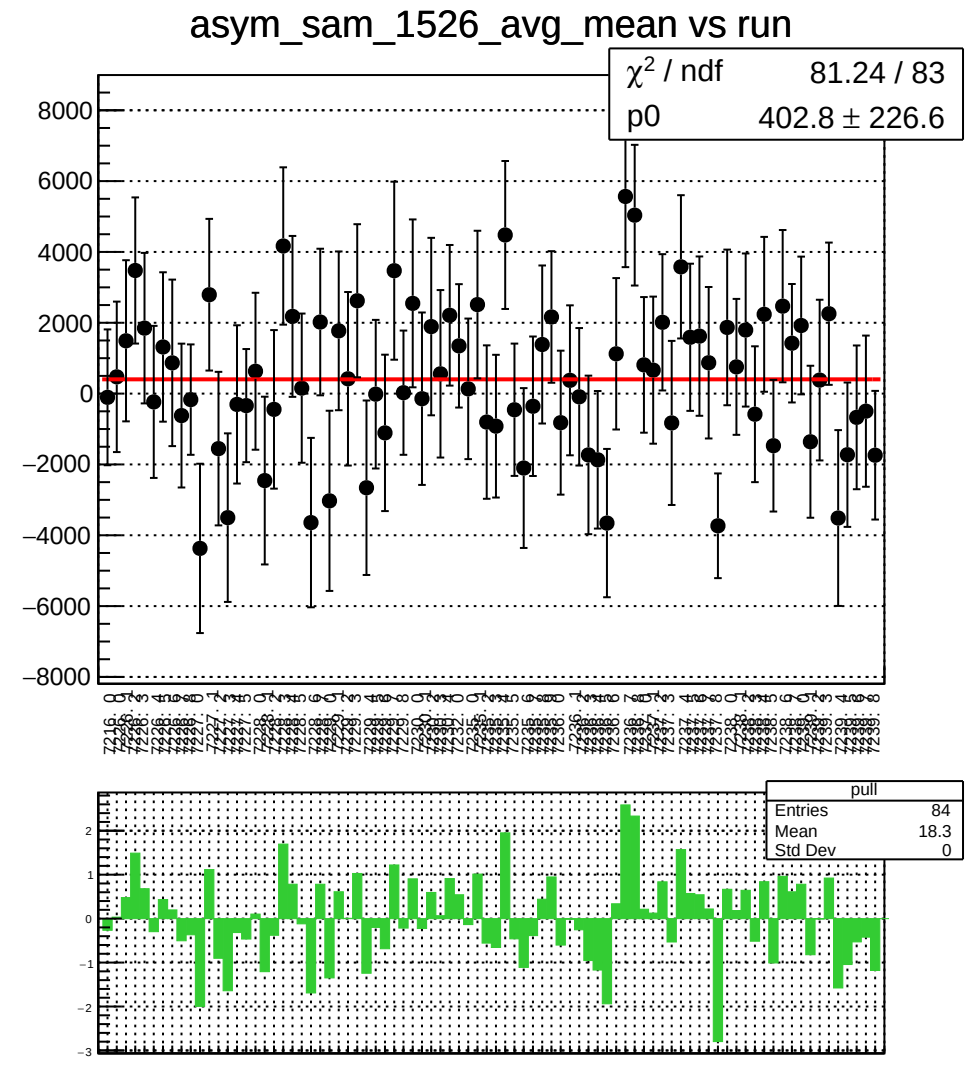

eigen_dit_asym_sam_1526_avg_mean vs run
χ² / ndf 72.14 / 83
p0 −40.73 ± 55.82
2000
1000
0
−1000
−2000
pull
Entries 84
Mean 135.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

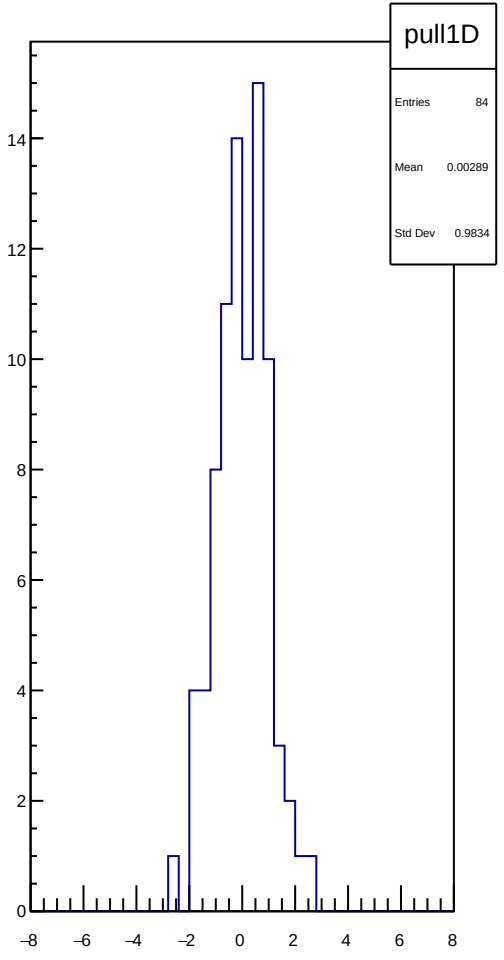

pull1D
Entries 84
Mean −0.01073
Std Dev 0.9267
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

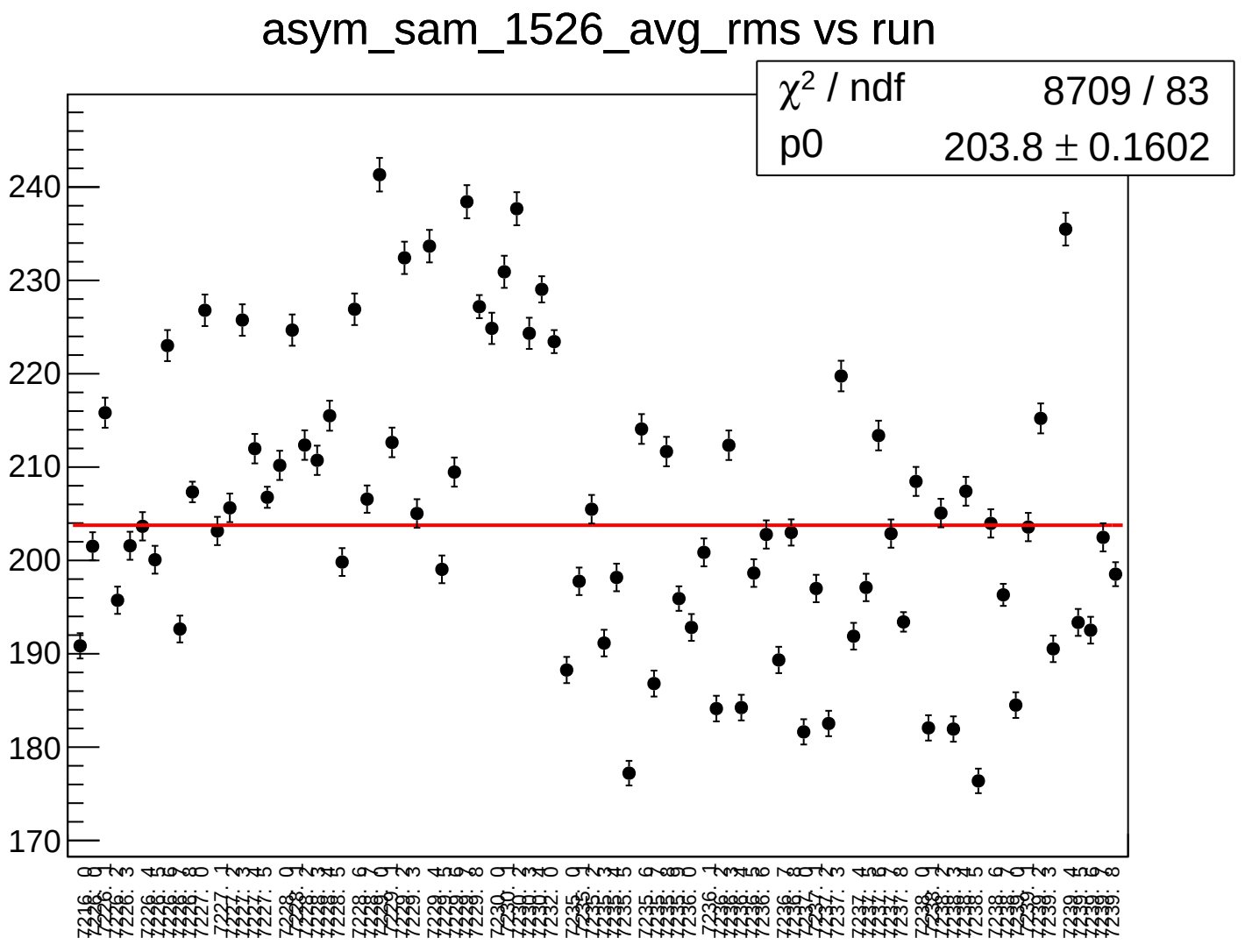

eigen_dit_asym_sam_1526_avg_rms vs run
χ² / ndf 1.861e+04 / 83
p0 50.05 ± 0.03947
75
70
65
60
55
50
45

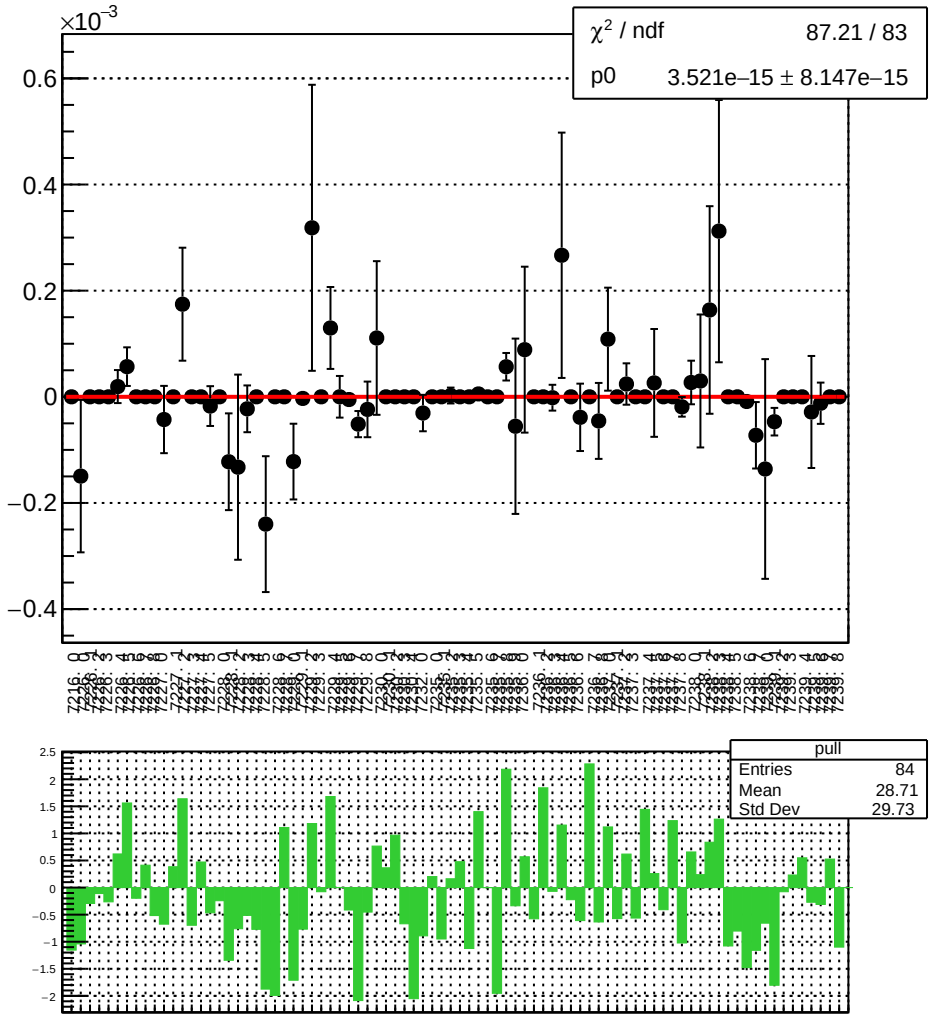

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 79.43 / 83
p0 −423.4 ± 215.6
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 84
Mean 74.88
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.009686
Std Dev 0.9724
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

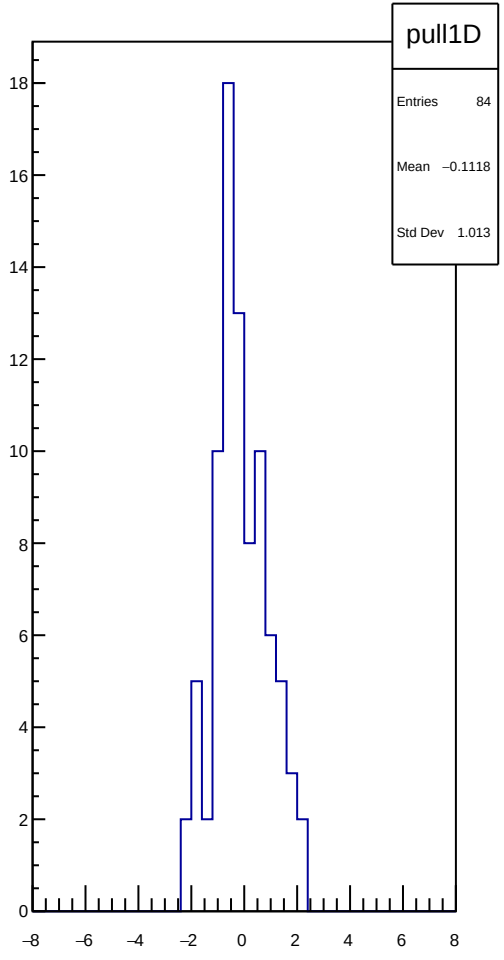

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ^2 / ndf 8138 / 83
p0 194 ± 0.1525
240
230
220
210
200
190
180
170

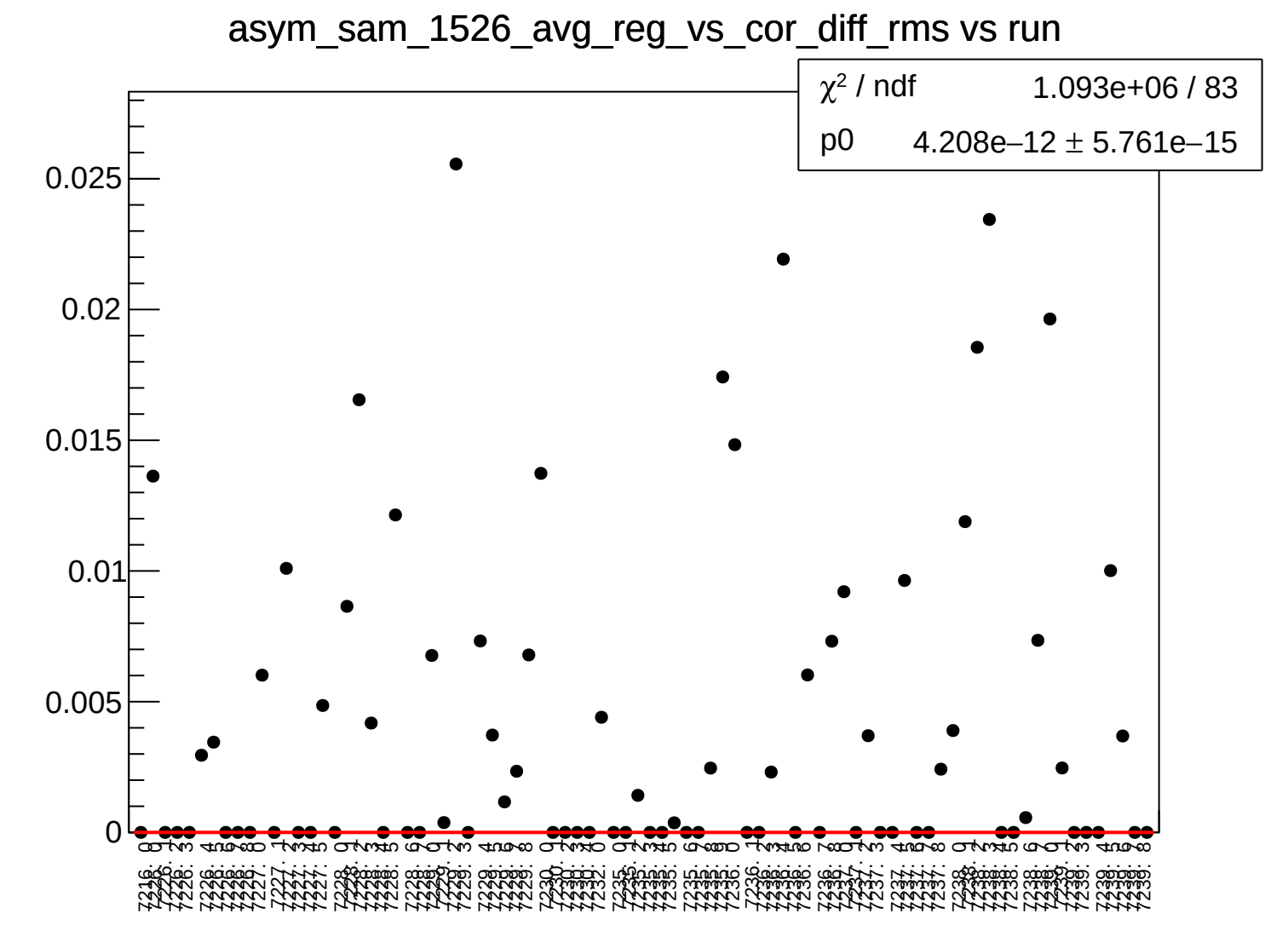

asym_sam_1526_avg_mean vs run
χ² / ndf 81.24 / 83
p0 402.8 ± 226.6
pull
Entries 84
Mean 18.3
Std Dev 0

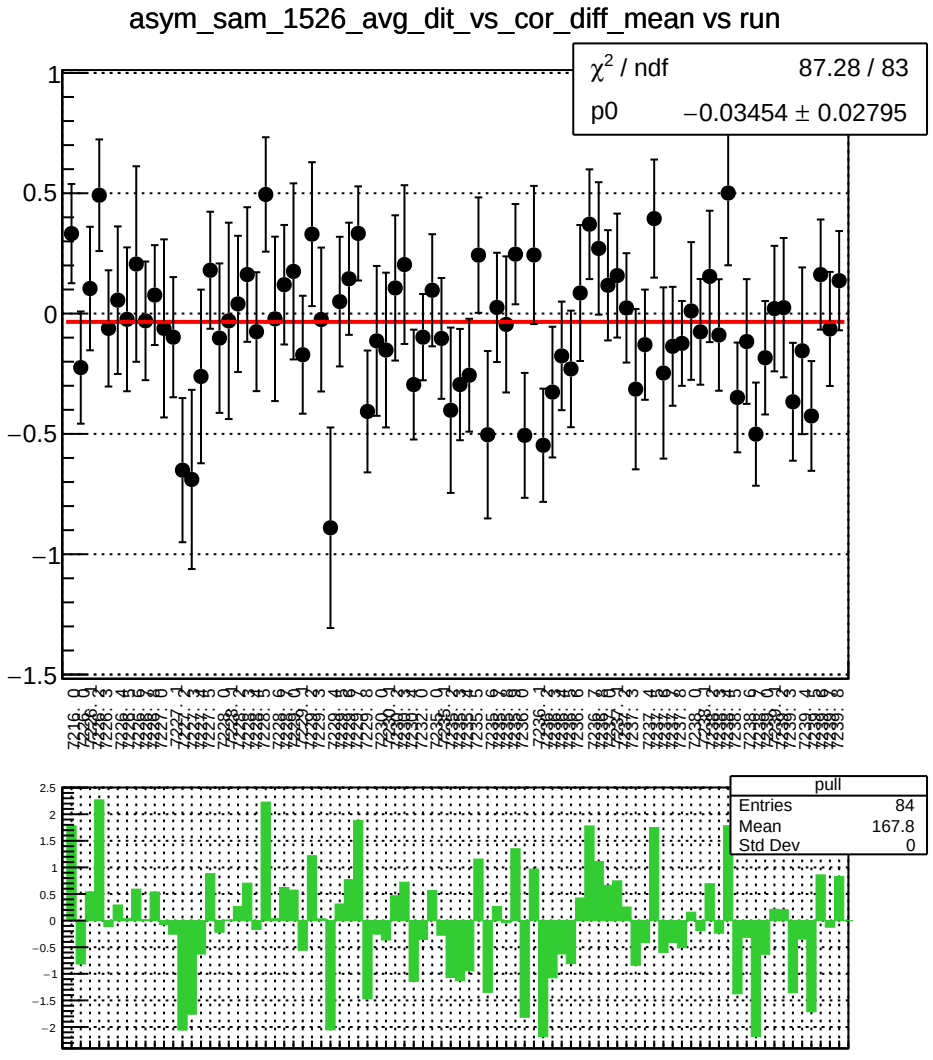

pull1D
Entries 84
Mean 0.00289
Std Dev 0.9834

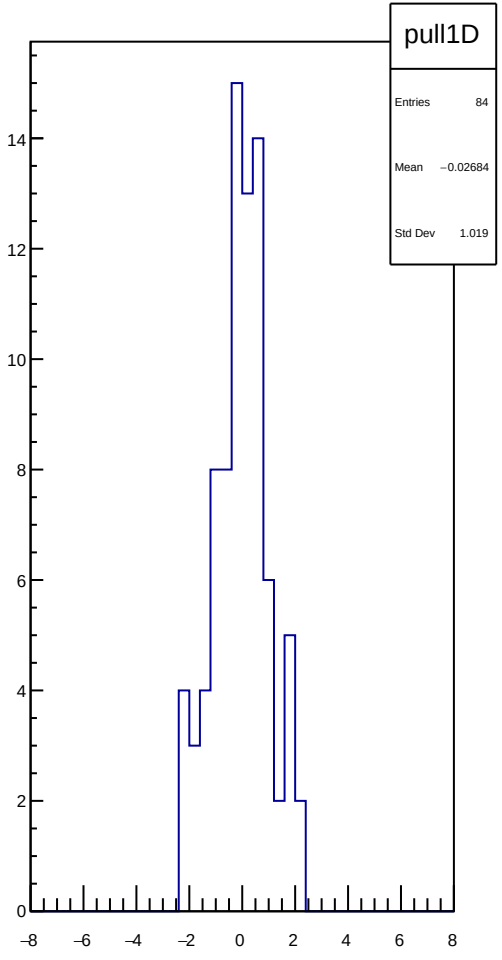

asym_sam_1526_avg_rms vs run
χ² / ndf 8709 / 83
p0 203.8 ± 0.1602
240
230
220
210
200
190
180
170

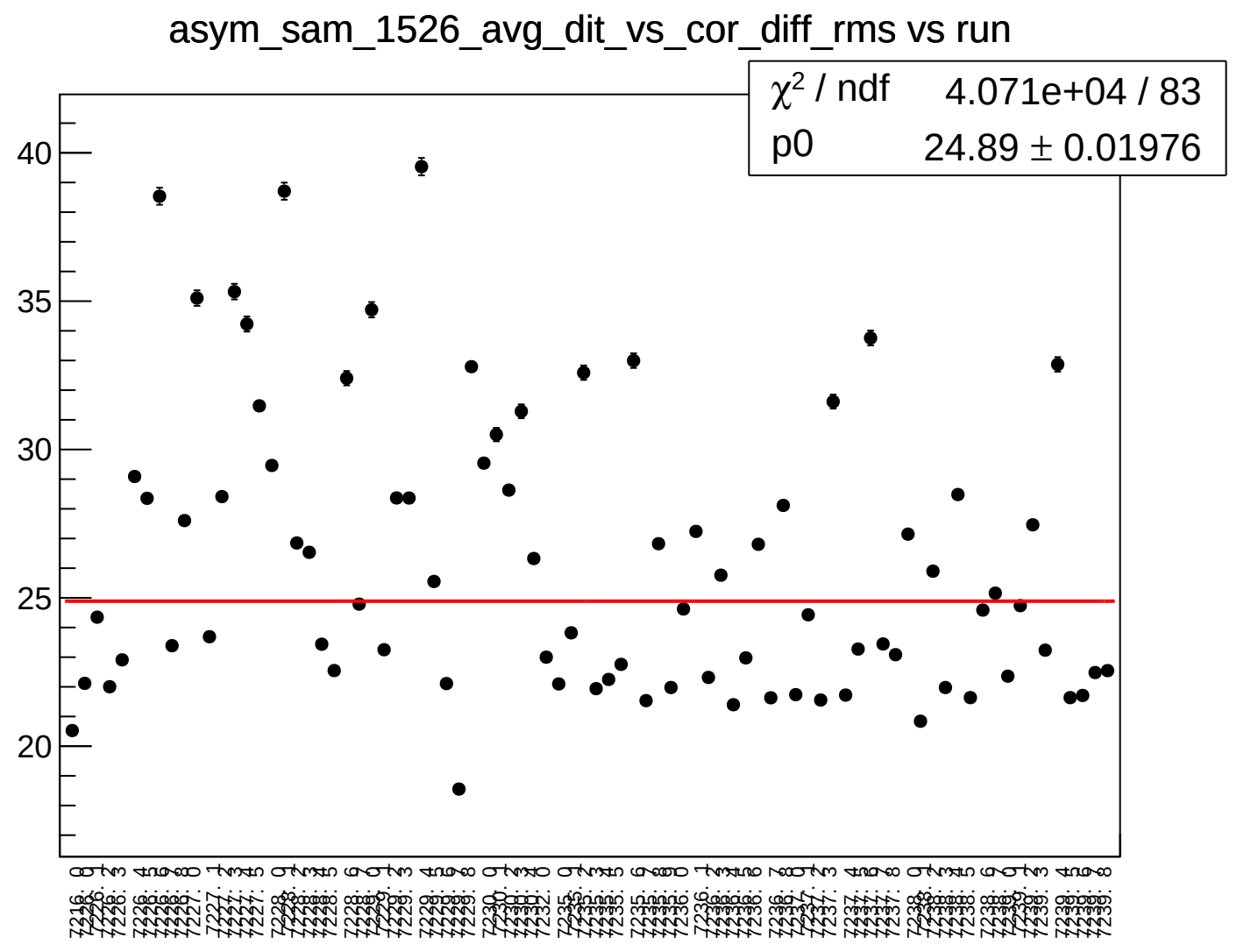

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 87.21 / 83
p0 3.521e−15 ± 8.147e−15
pull
Entries 84
Mean 28.71
Std Dev 29.73

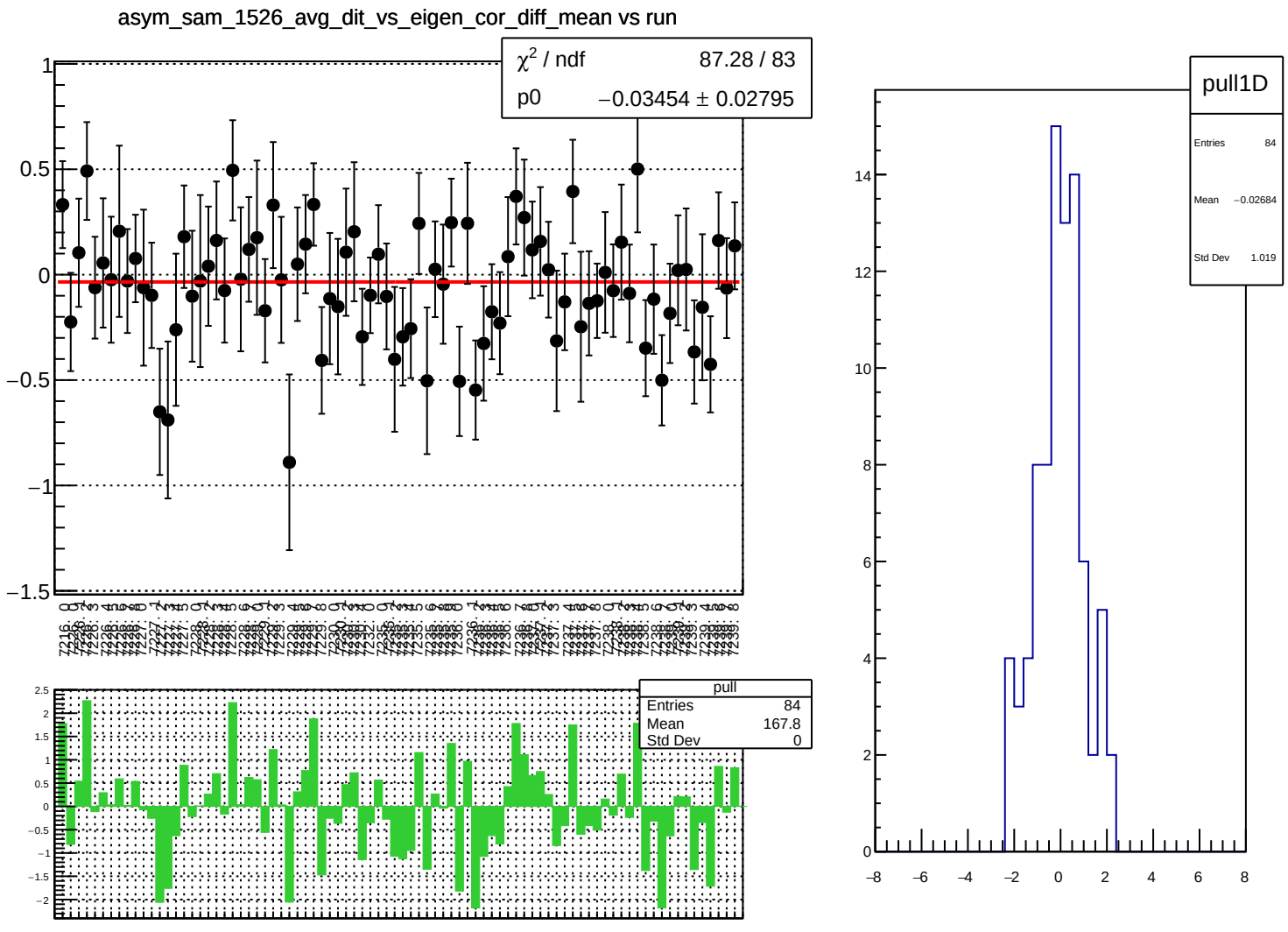

pull1D
Entries 84
Mean −0.1118
Std Dev 1.013

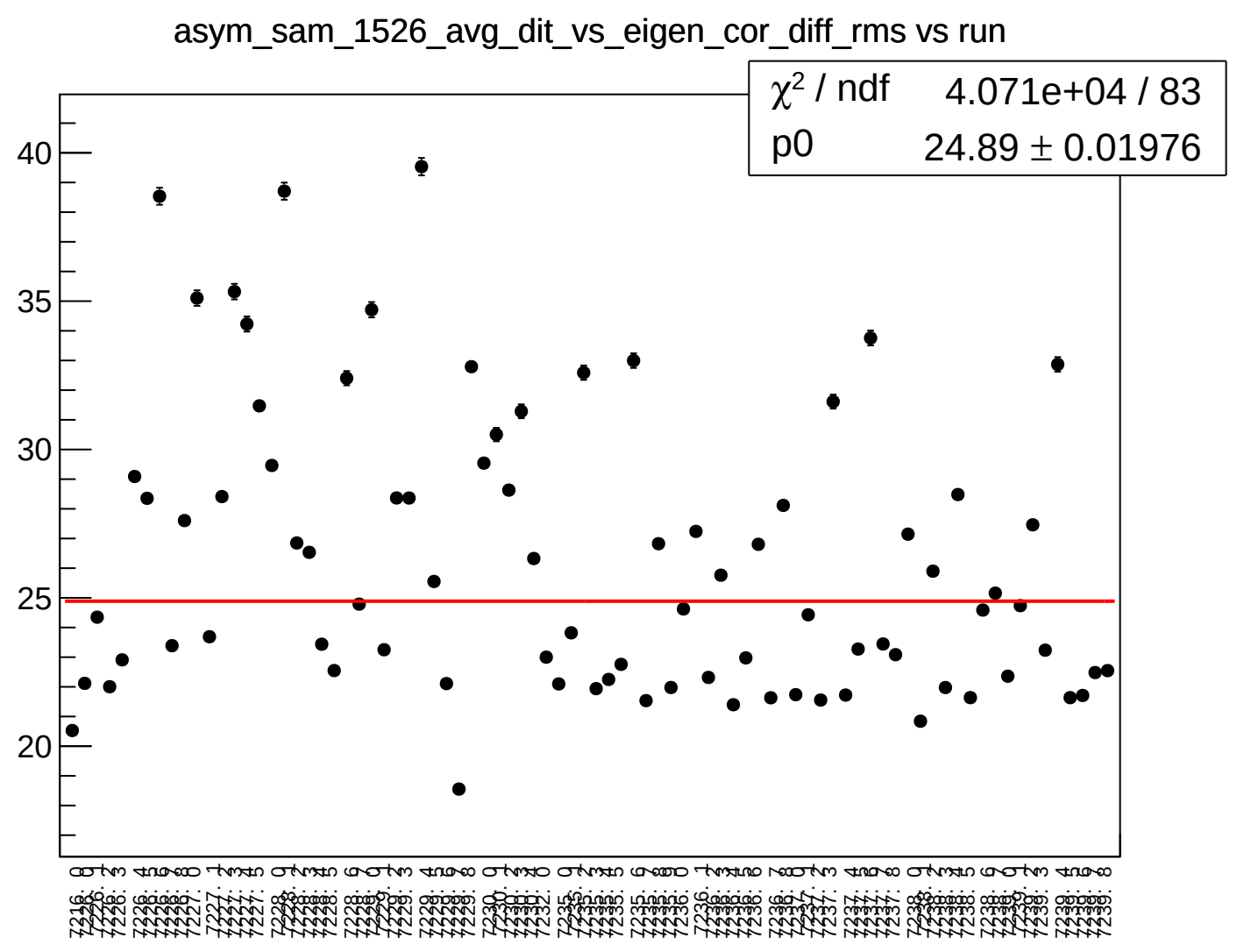

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.093e+06 / 83
p0 4.208e−12 ± 5.761e−15
0.025
0.02
0.015
0.01
0.005
0

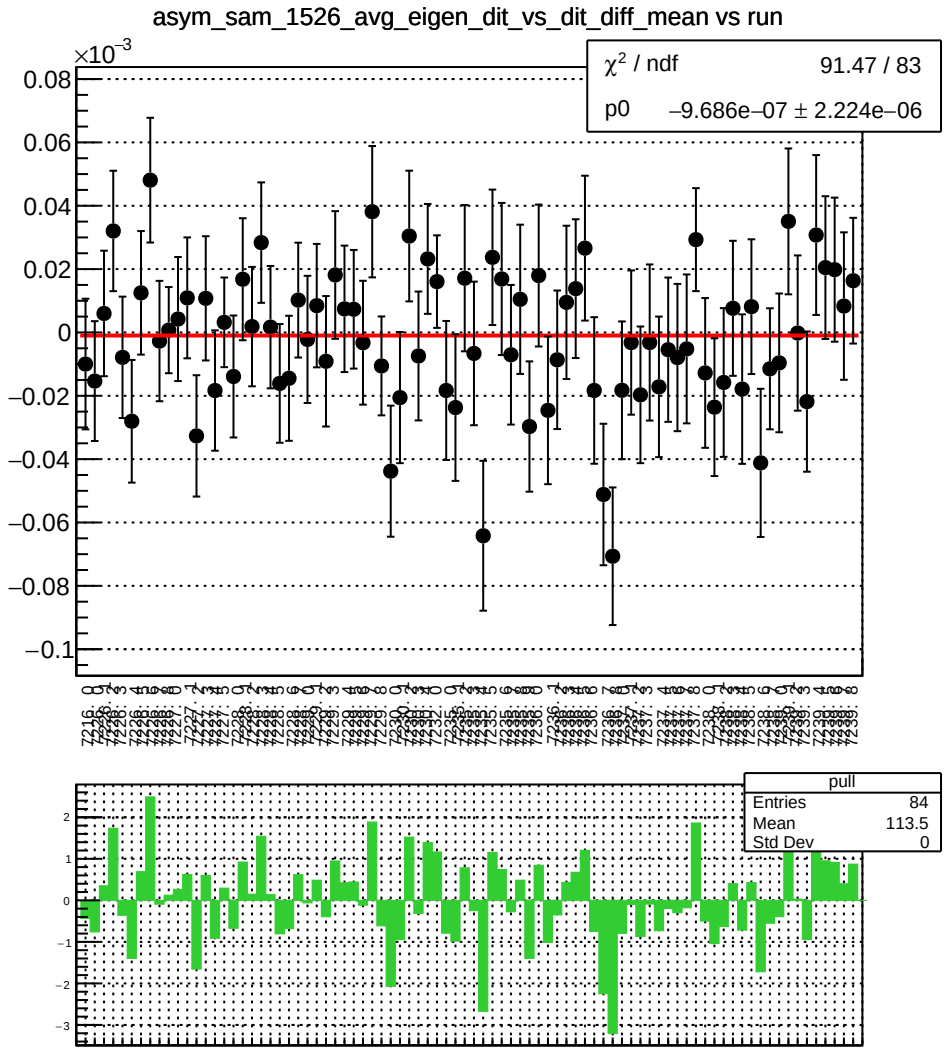

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 87.28 / 83
p0 −0.03454 ± 0.02795
pull
Entries 84
Mean 167.8
Std Dev 0

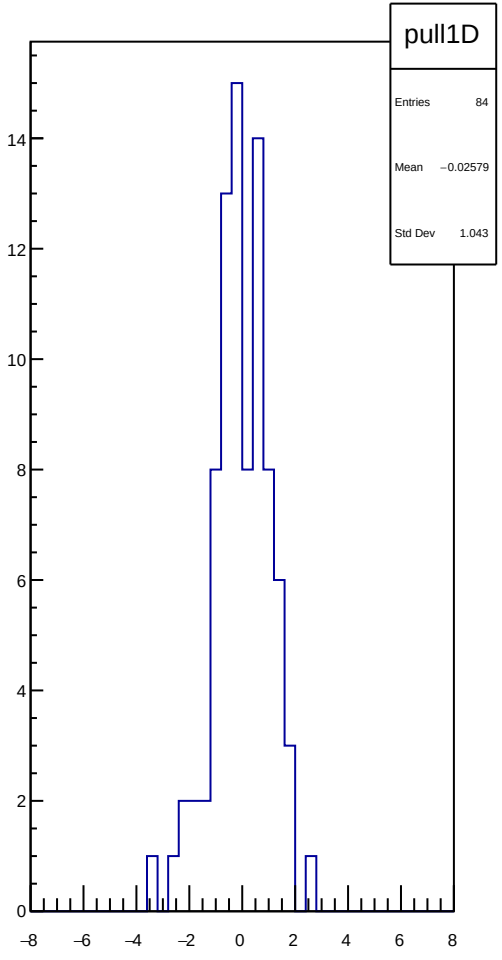

pull1D
Entries 84
Mean −0.02684
Std Dev 1.019

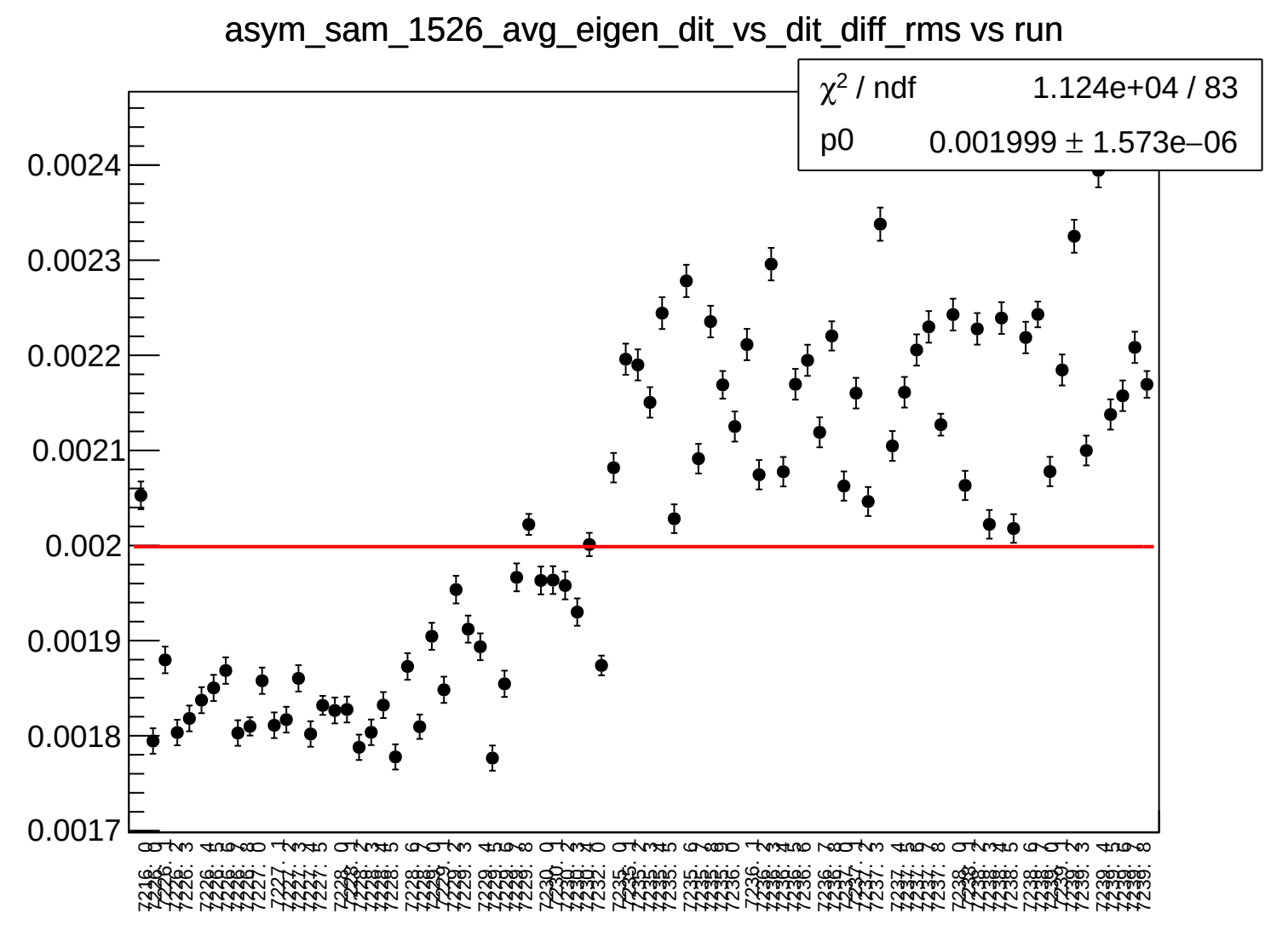

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.071e+04 / 83
p0 24.89 ± 0.01976
40
35
30
25
20

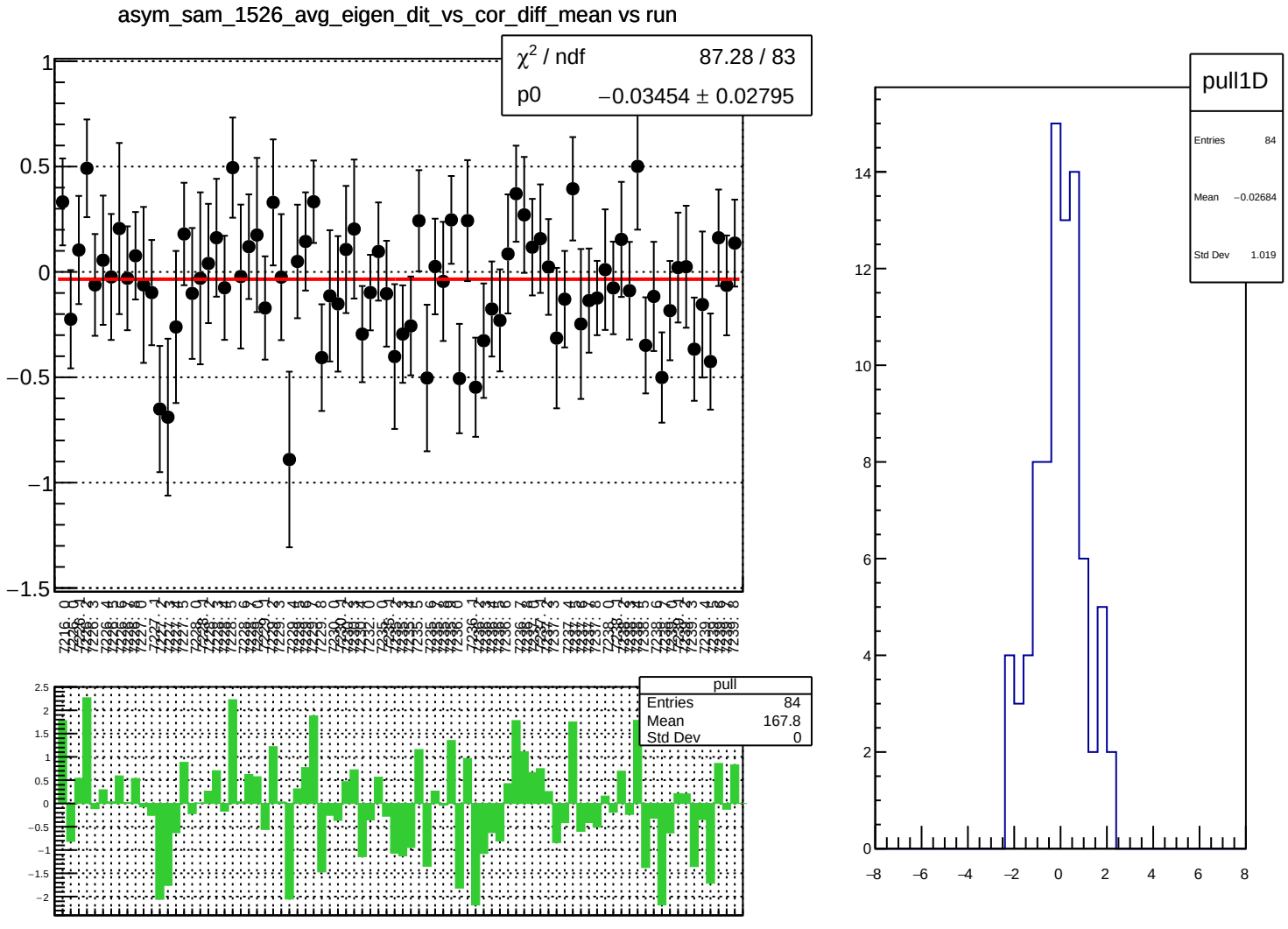

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.28 / 83
p0 −0.03454 ± 0.02795
pull
Entries 84
Mean 167.8
Std Dev 0
pull1D
Entries 84
Mean −0.02684
Std Dev 1.019

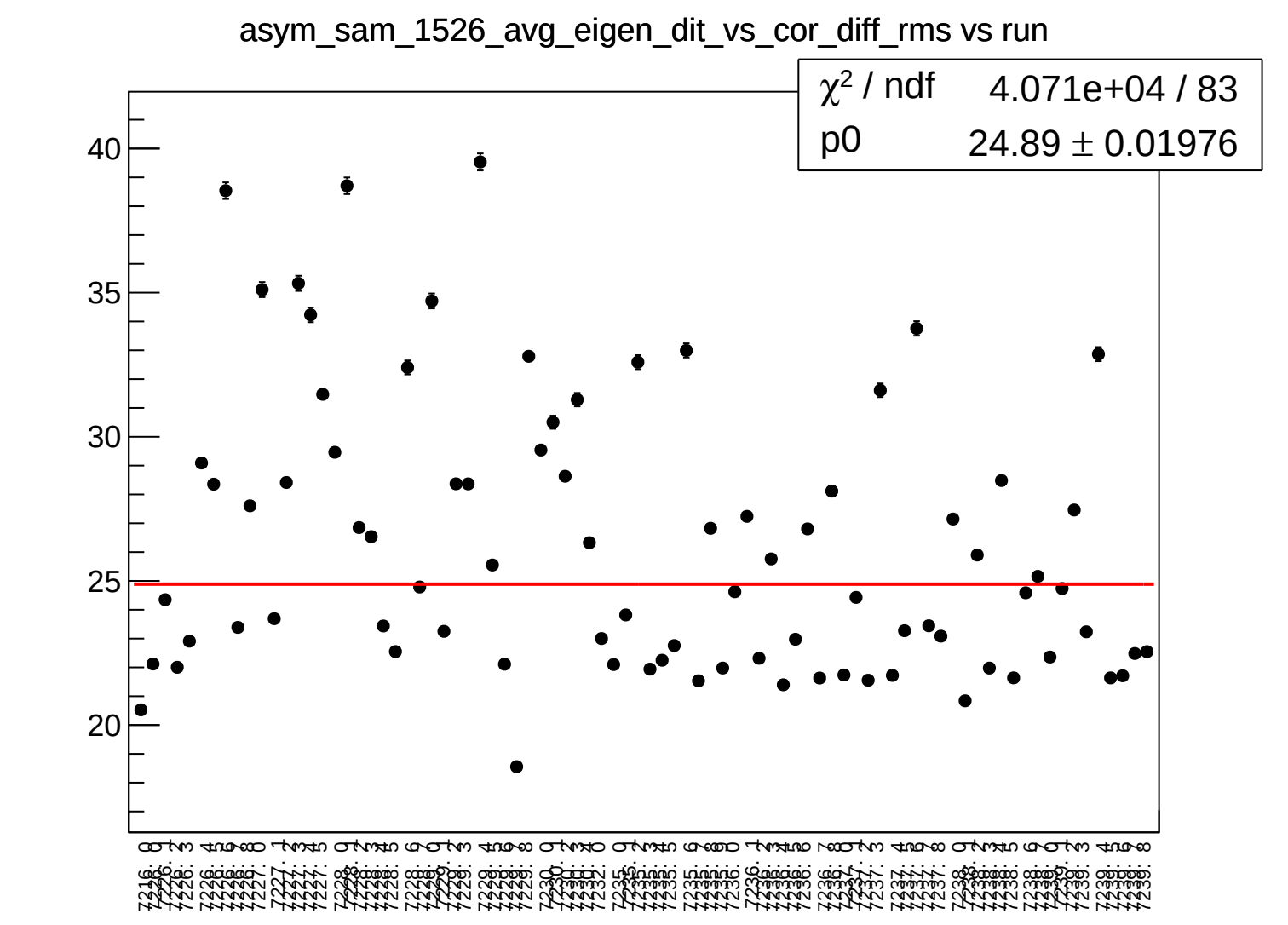

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.071e+04 / 83
p0 24.89 ± 0.01976
40
35
30
25
20

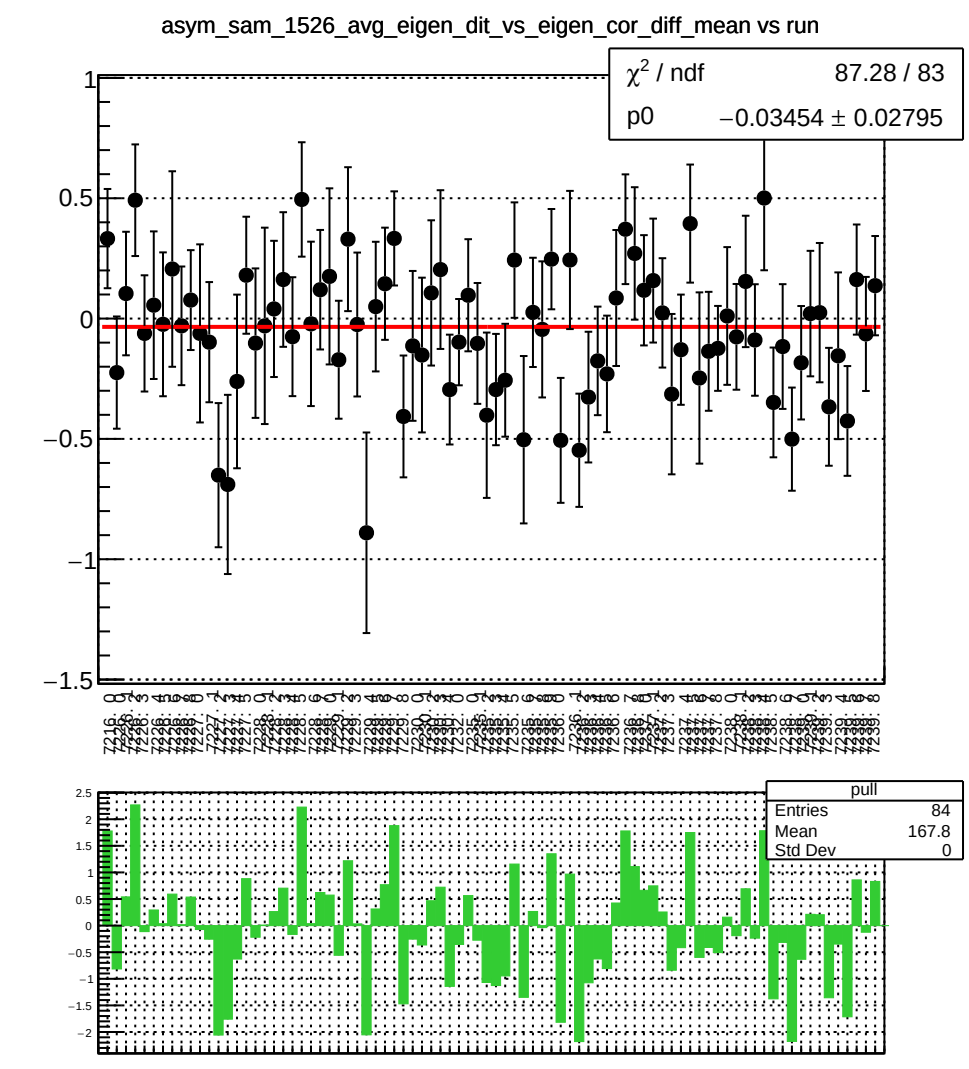

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.47 / 83
p0 −9.686e−07 ± 2.224e−06
pull
Entries 84
Mean 113.5
Std Dev 0

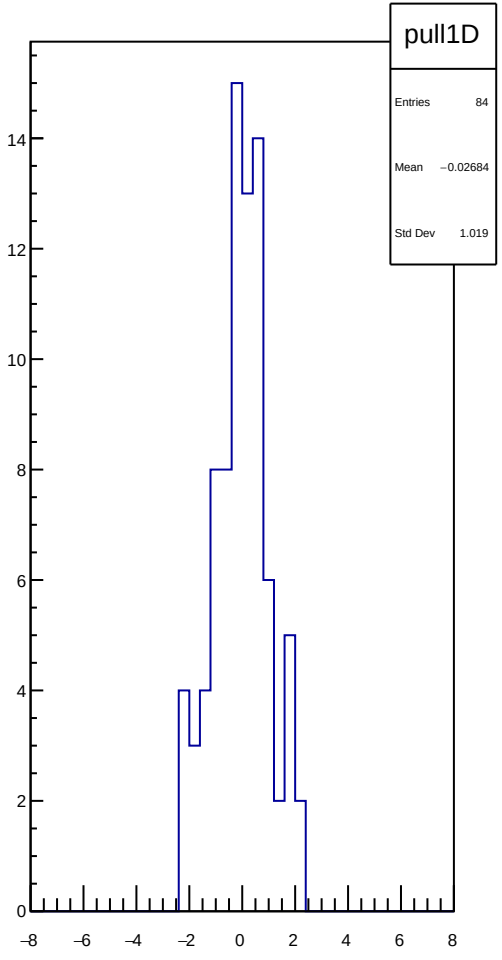

pull1D
Entries 84
Mean −0.02579
Std Dev 1.043

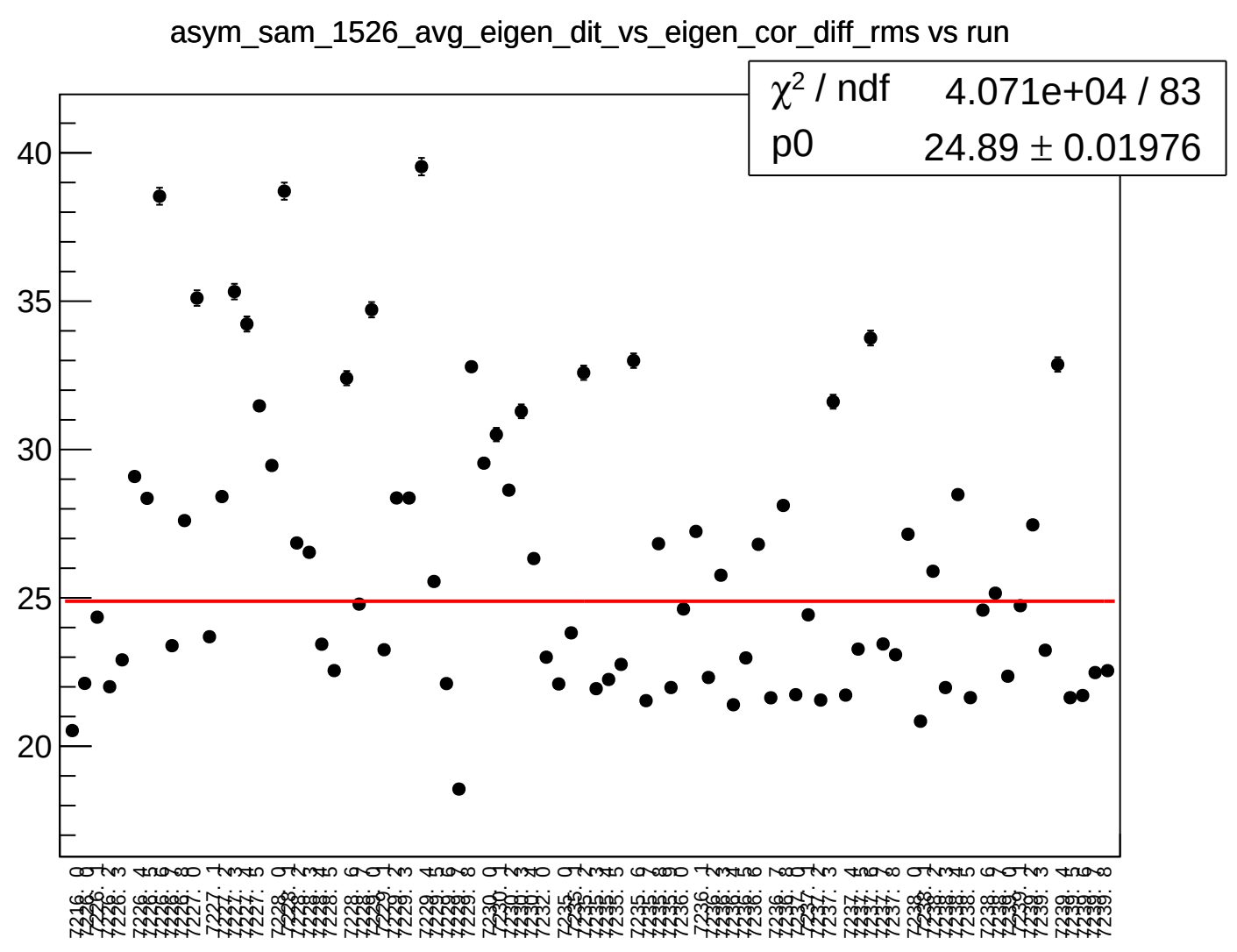

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.124e+04 / 83
p0 0.001999 ± 1.573e−06
0.0024
0.0023
0.0022
0.0021
0.002
0.0019
0.0018
0.0017

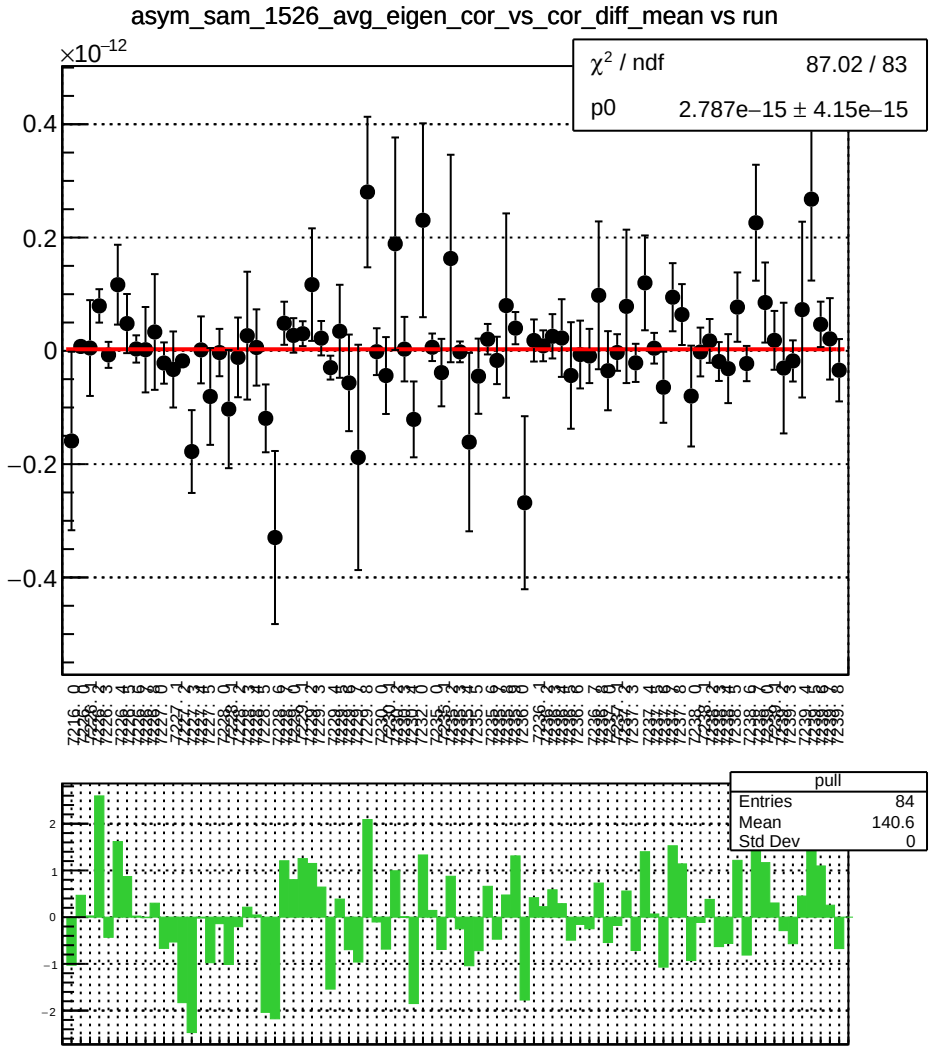

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.28 / 83
p0 −0.03454 ± 0.02795
pull
Entries 84
Mean 167.8
Std Dev 0
pull1D
Entries 84
Mean −0.02684
Std Dev 1.019

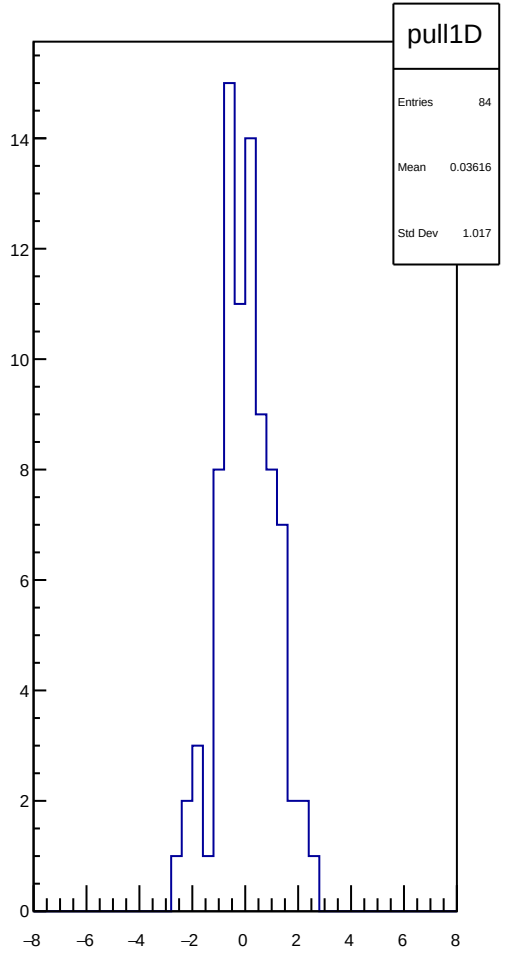

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.071e+04 / 83
p0 24.89 ± 0.01976
40
35
30
25
20

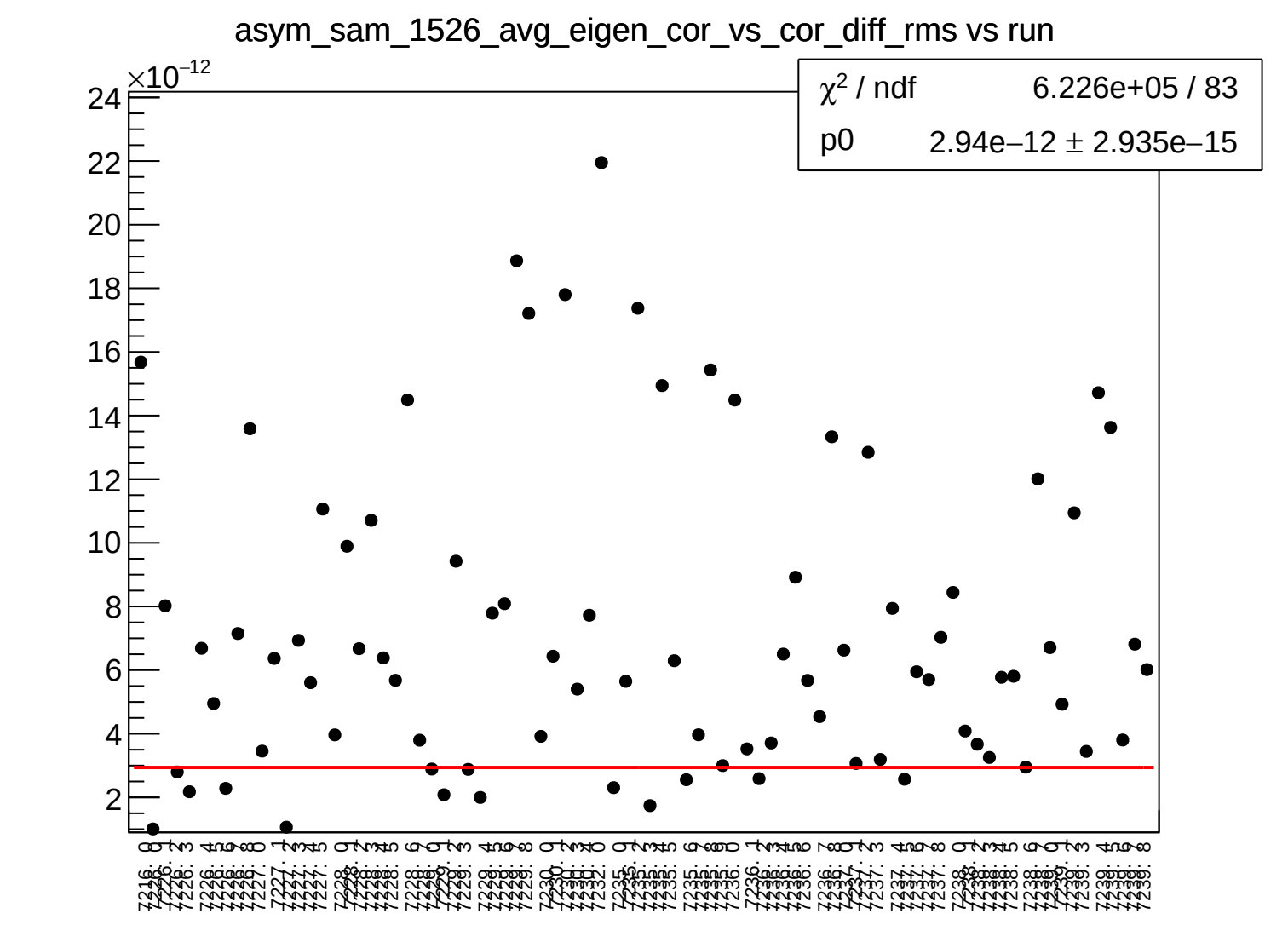

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.28 / 83
p0 −0.03454 ± 0.02795
pull
Entries 84
Mean 167.8
Std Dev 0

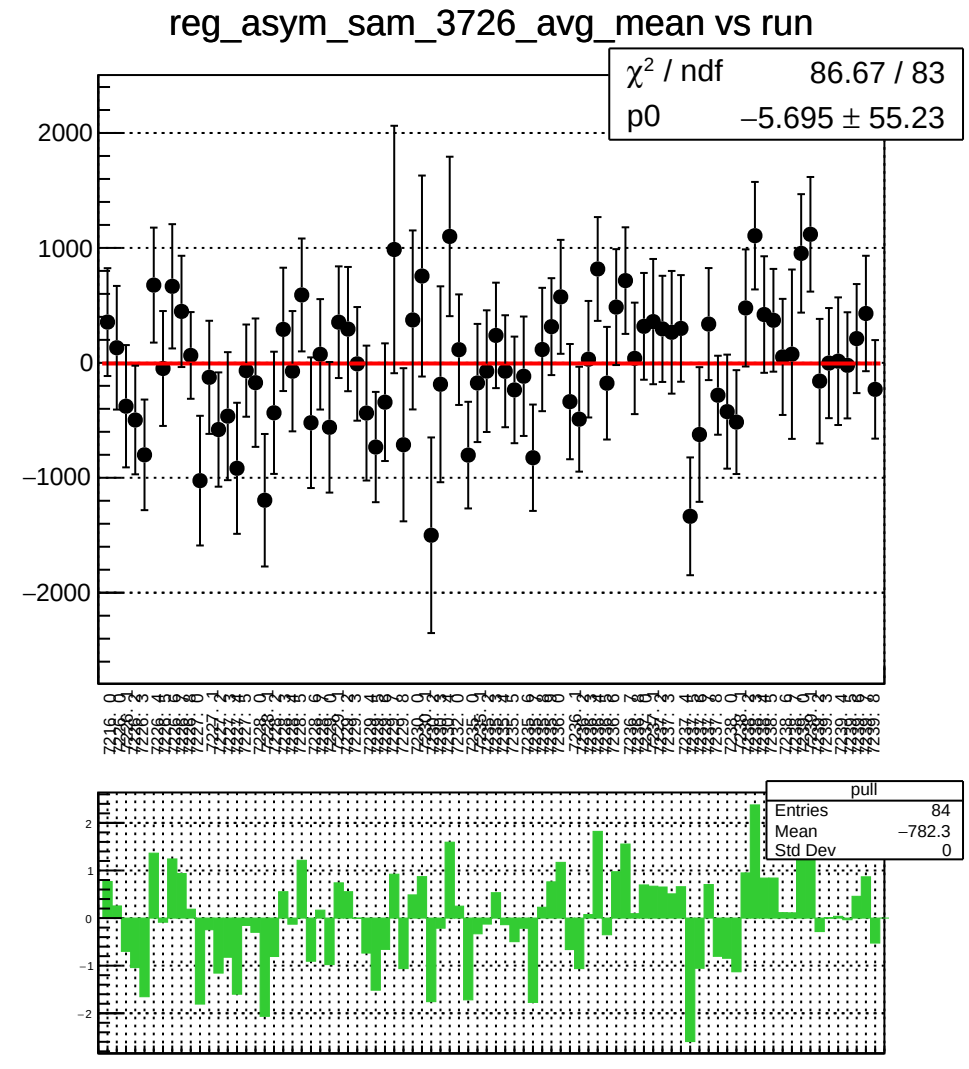

pull1D
Entries 84
Mean −0.02684
Std Dev 1.019

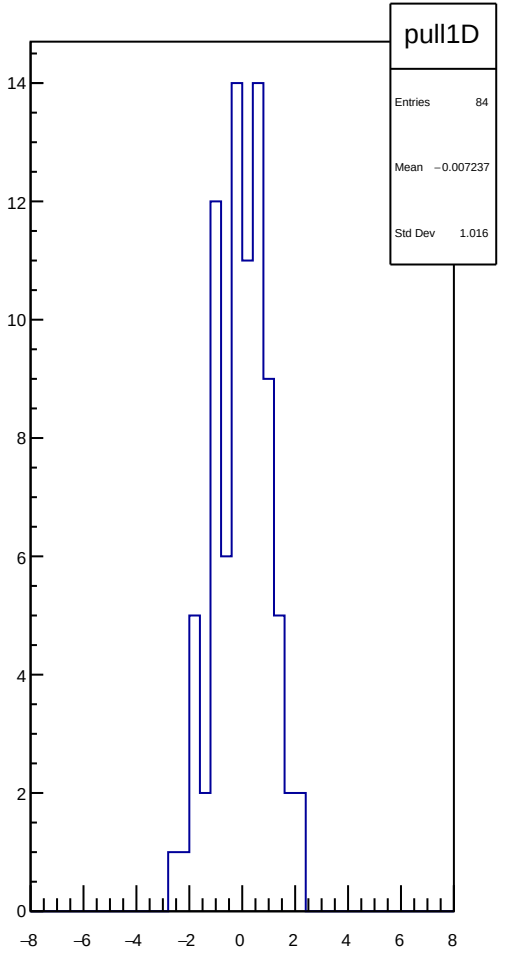

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.071e+04 / 83
p0 24.89 ± 0.01976
40
35
30
25
20

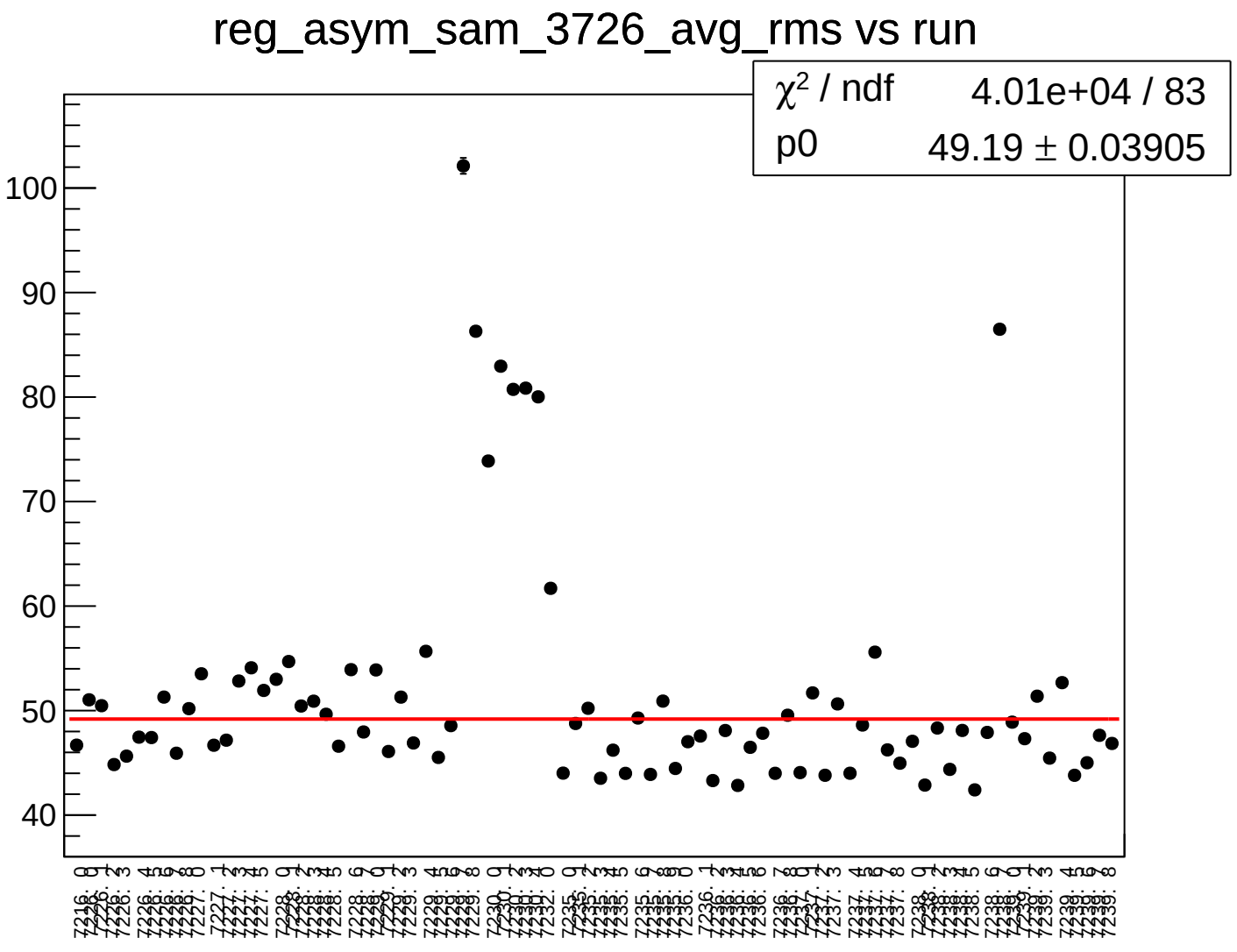

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.02 / 83
p0 2.787e−15 ± 4.15e−15
0.4
0.2
0
−0.2
−0.4
pull
Entries 84
Mean 140.6
Std Dev 0
2
1
0
−1
−2

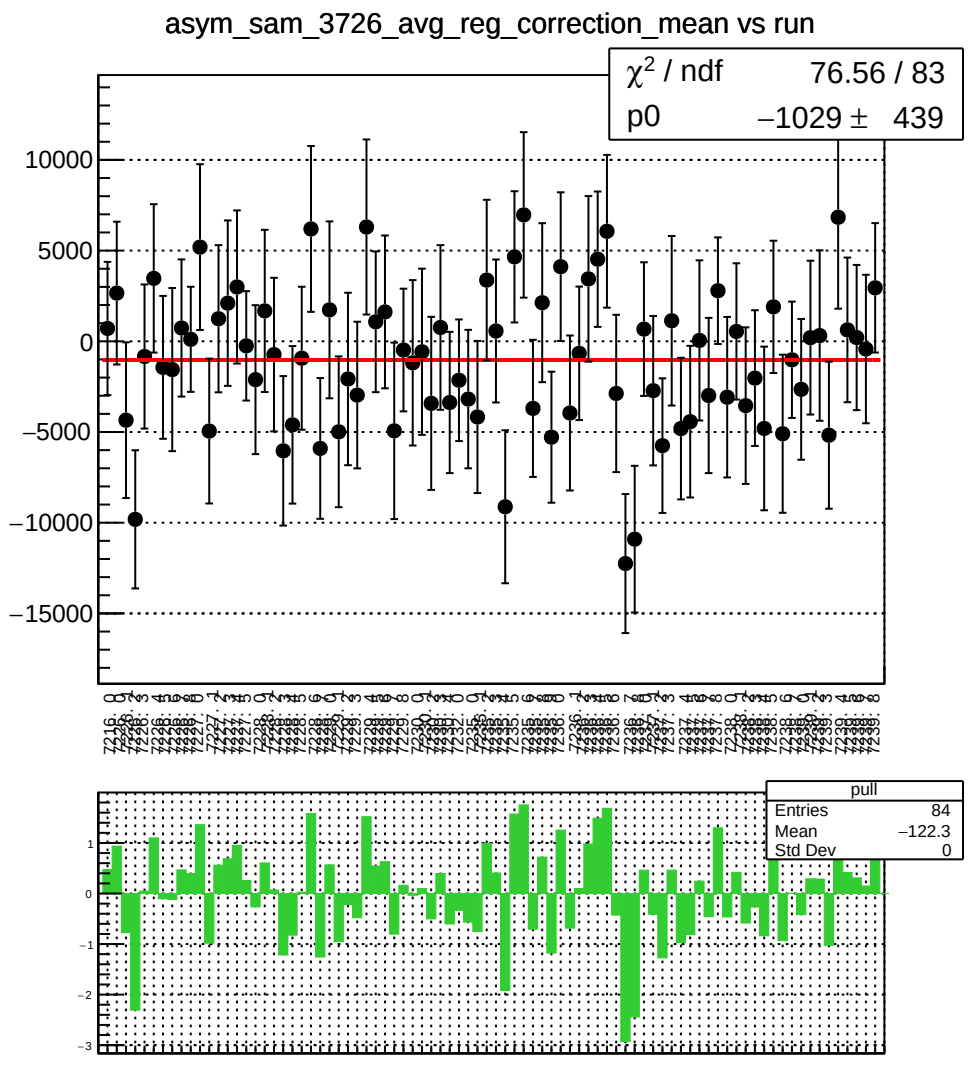

pull1D
Entries 84
Mean 0.03616
Std Dev 1.017
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

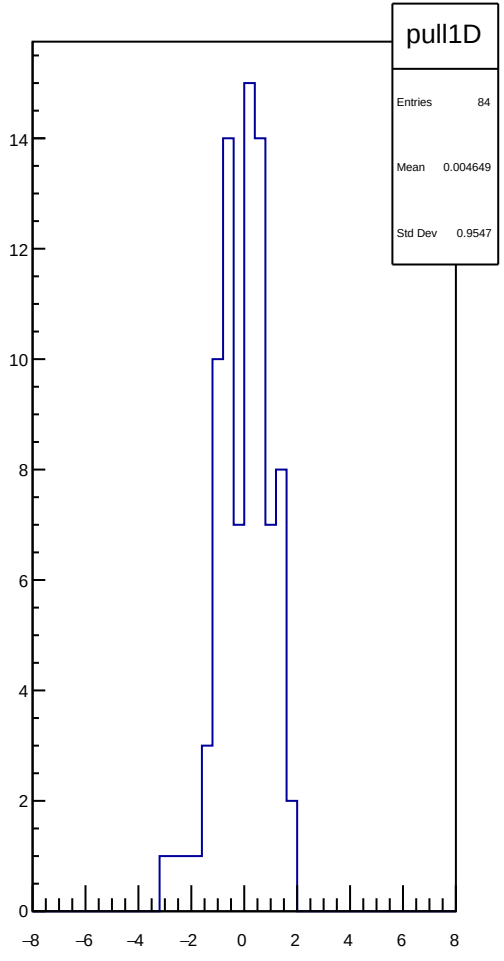

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.226e+05 / 83
p0 2.94e−12 ± 2.935e−15
24
22
20
18
16
14
12
10
8
6
4
2

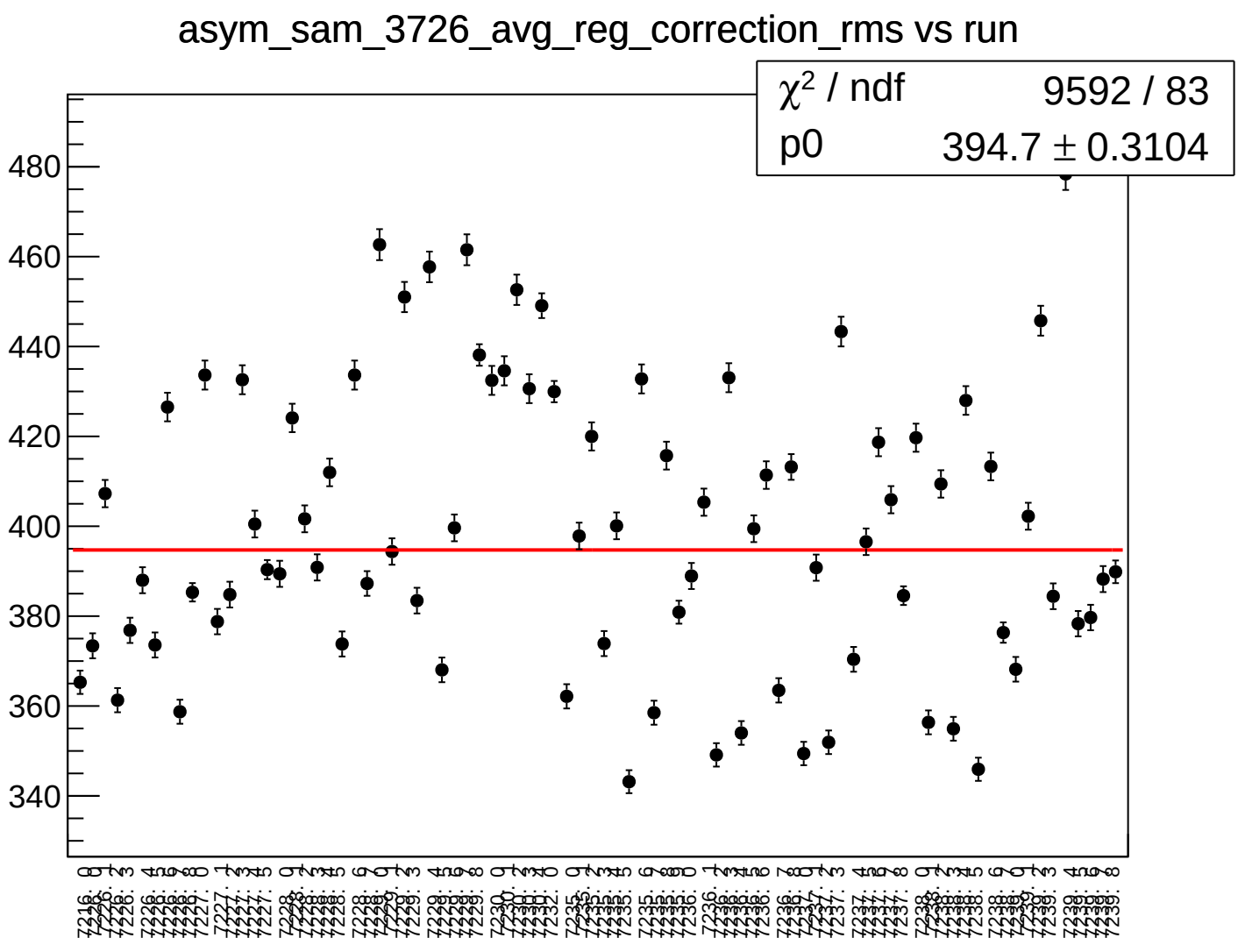

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 86.67 / 83
p0 −5.695 ± 55.23
2000
1000
0
−1000
−2000
pull
Entries 84
Mean −782.3
Std Dev 0
2
1
0
−1
−2

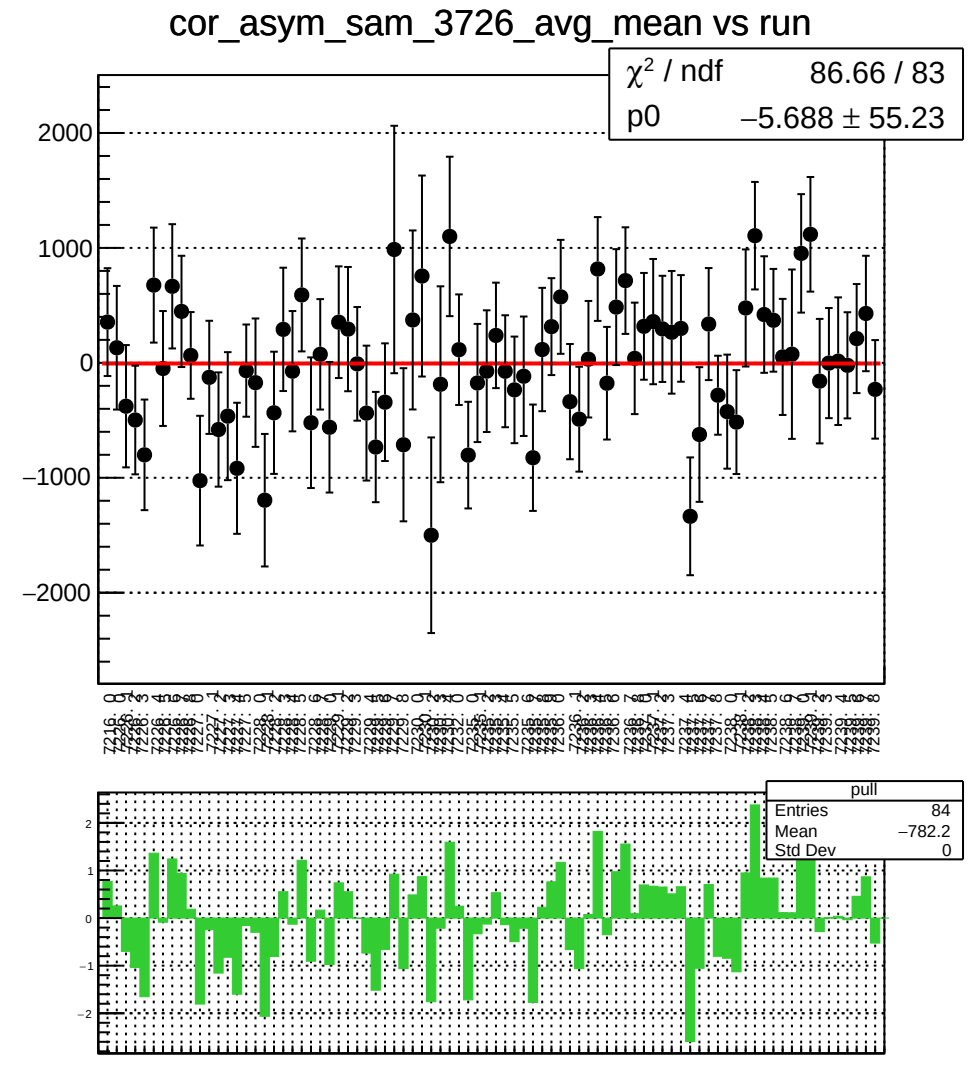

pull1D
Entries 84
Mean −0.007237
Std Dev 1.016
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

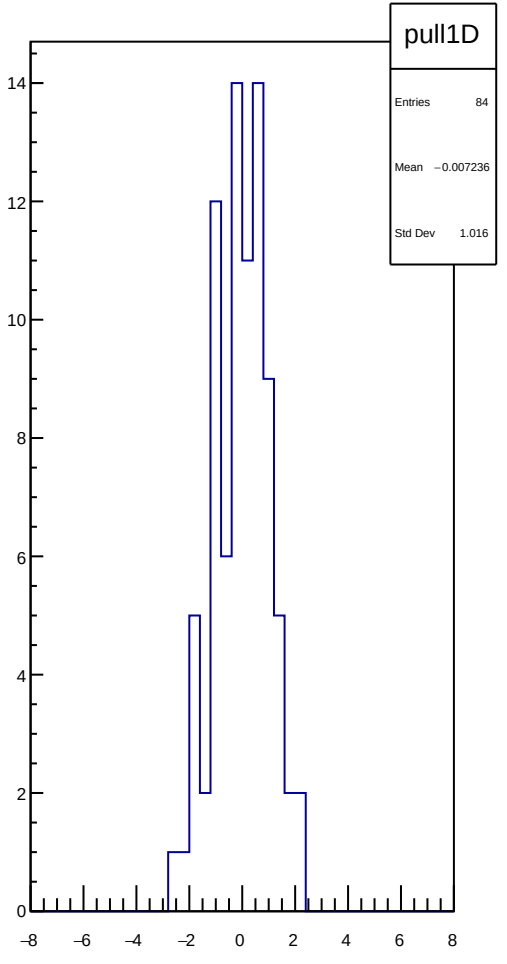

reg_asym_sam_3726_avg_rms vs run
χ^2 / ndf 4.01e+04 / 83
p0 49.19 ± 0.03905
100
90
80
70
60
50
40

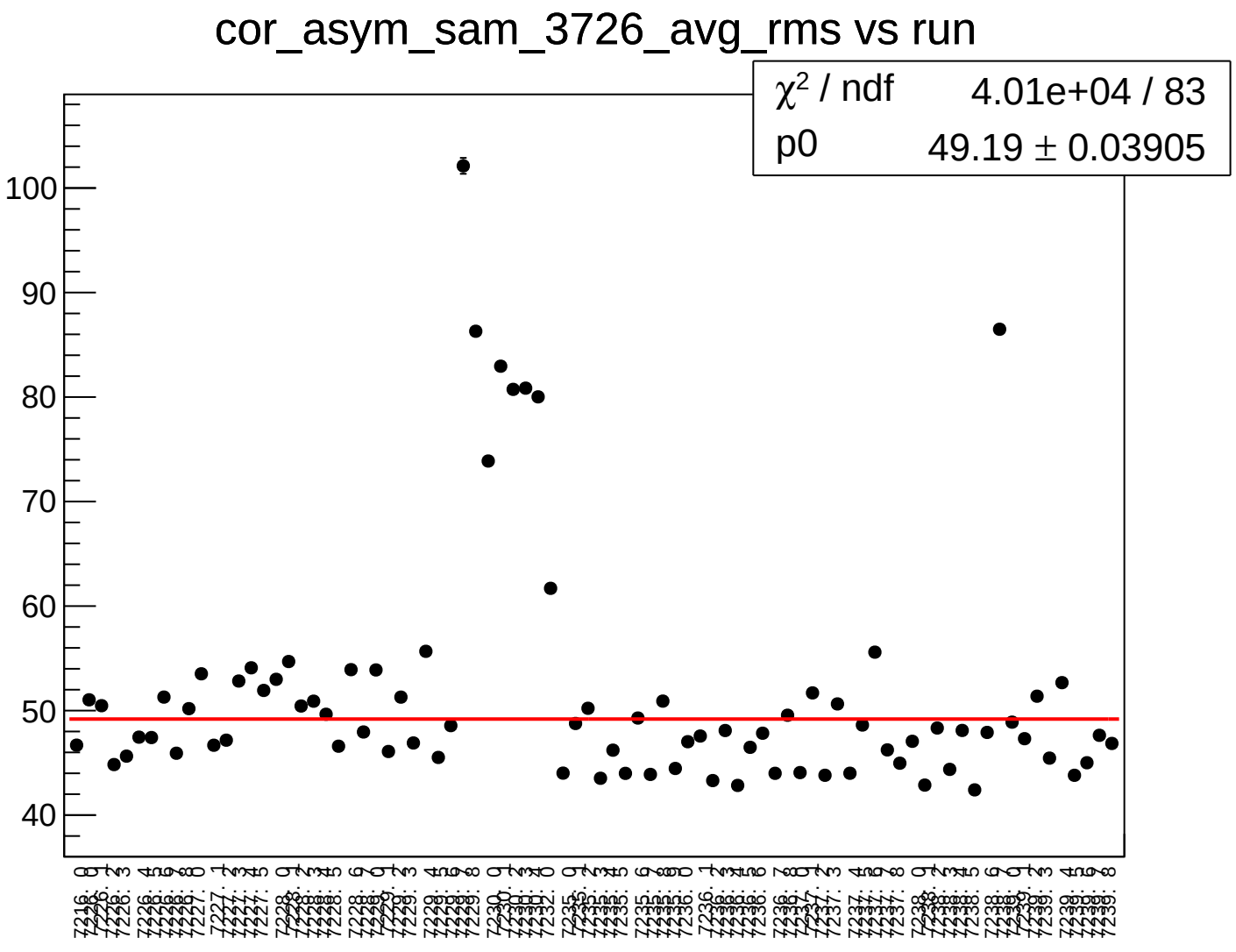

asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 76.56 / 83
p0 −1029 ± 439
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −122.3
Std Dev 0
1
0
−1
−2
−3

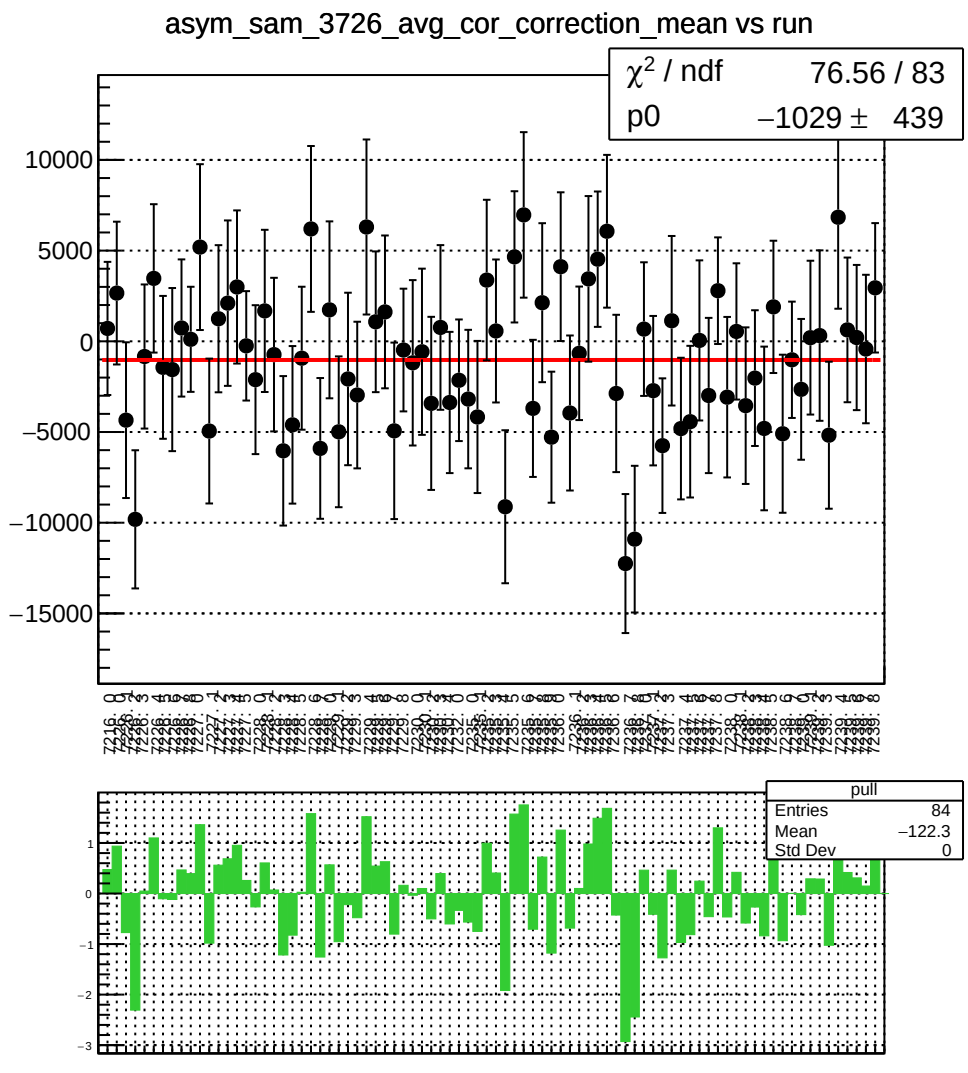

pull1D
Entries 84
Mean 0.004649
Std Dev 0.9547
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

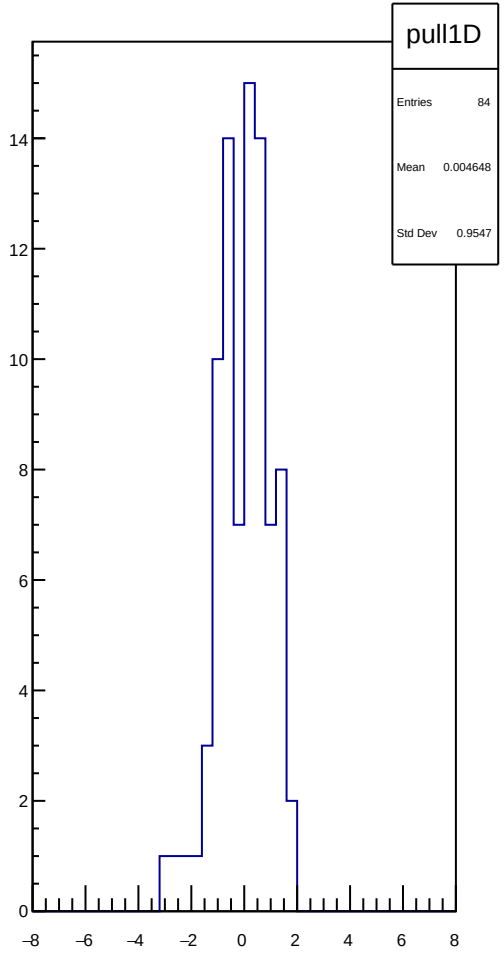

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 9592 / 83
p0 394.7 ± 0.3104
480
460
440
420
400
380
360
340

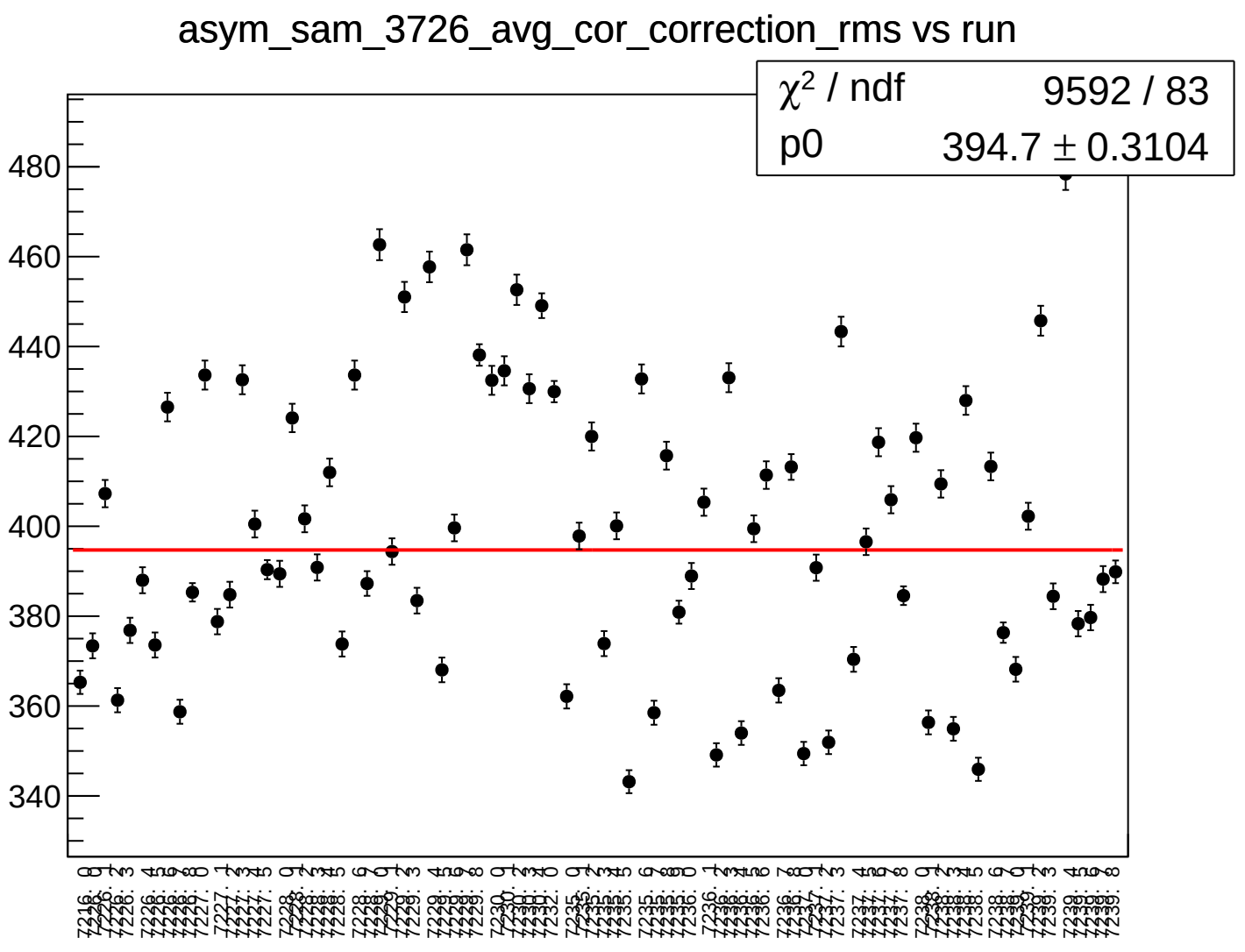

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 86.66 / 83
p0 −5.688 ± 55.23
2000
1000
0
−1000
−2000
pull
Entries 84
Mean −782.2
Std Dev 0
2
1
0
−1
−2

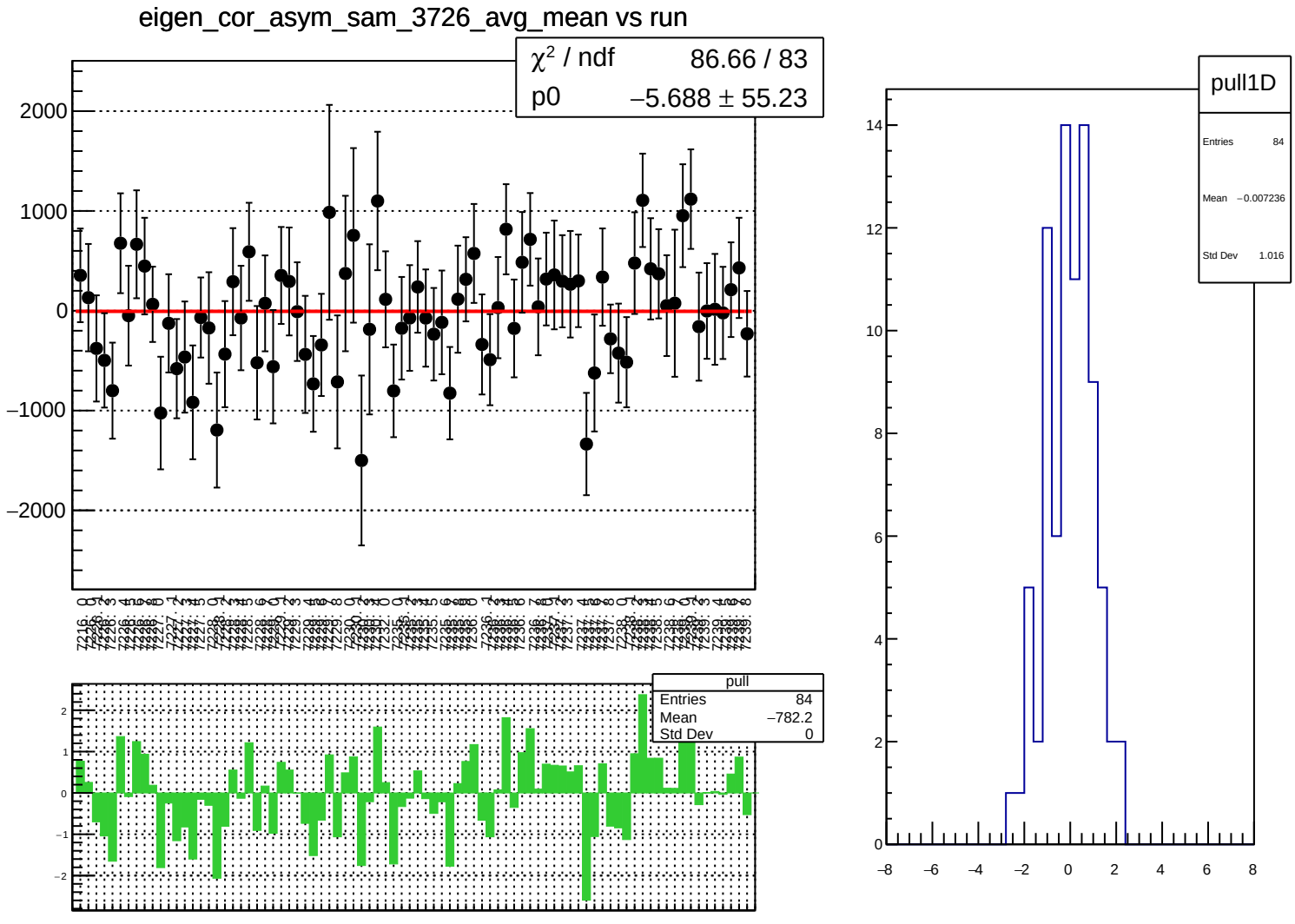

pull1D
Entries 84
Mean −0.007236
Std Dev 1.016
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

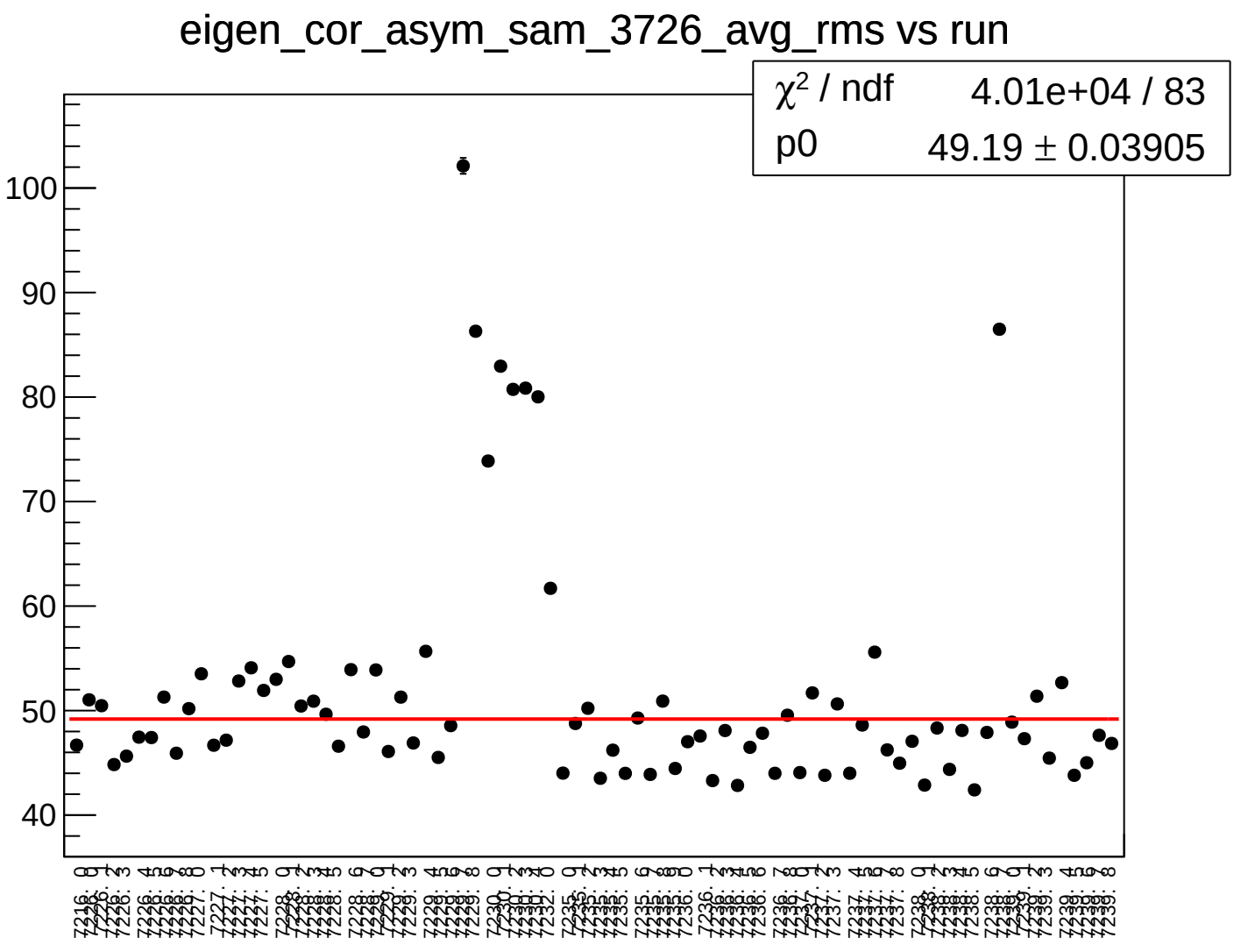

cor_asym_sam_3726_avg_rms vs run
χ² / ndf 4.01e+04 / 83
p0 49.19 ± 0.03905
100
90
80
70
60
50
40

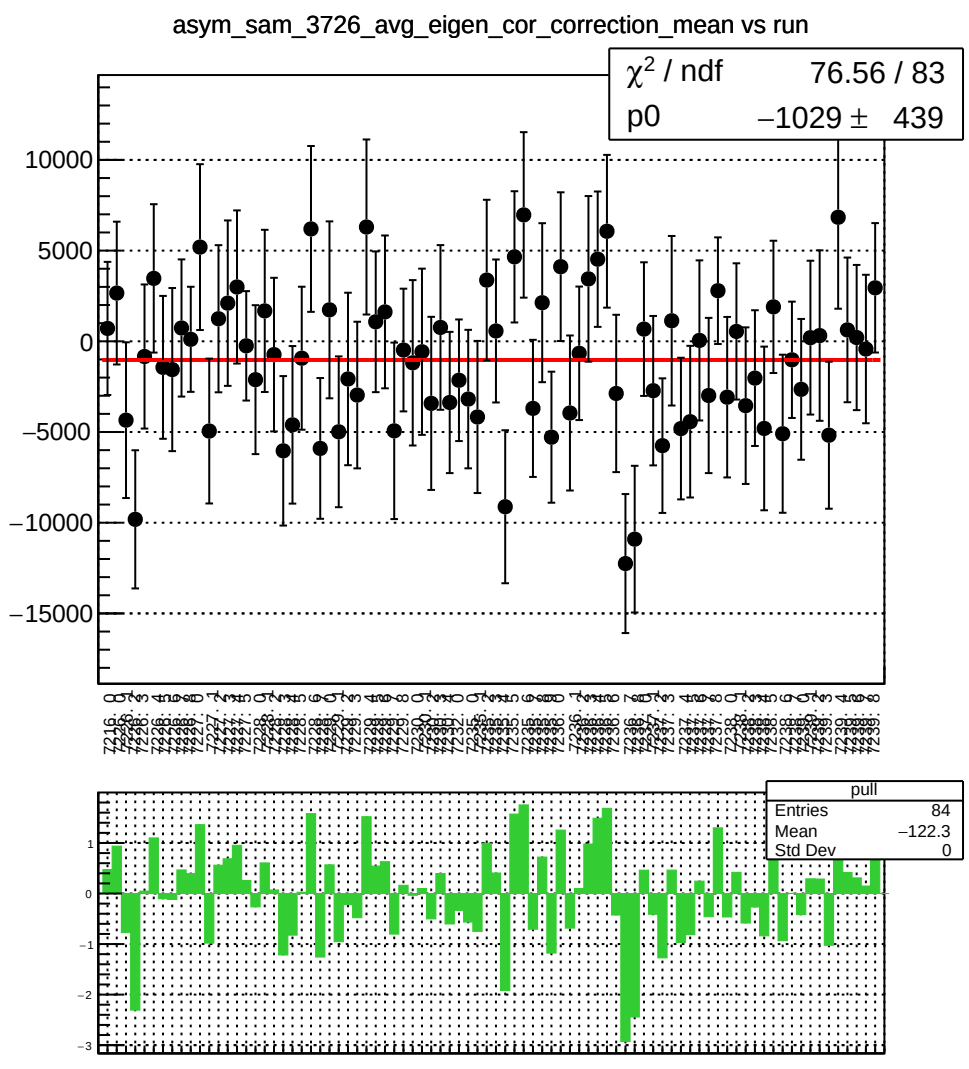

asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 76.56 / 83
p0 −1029 ± 439
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −122.3
Std Dev 0
1
0
−1
−2
−3

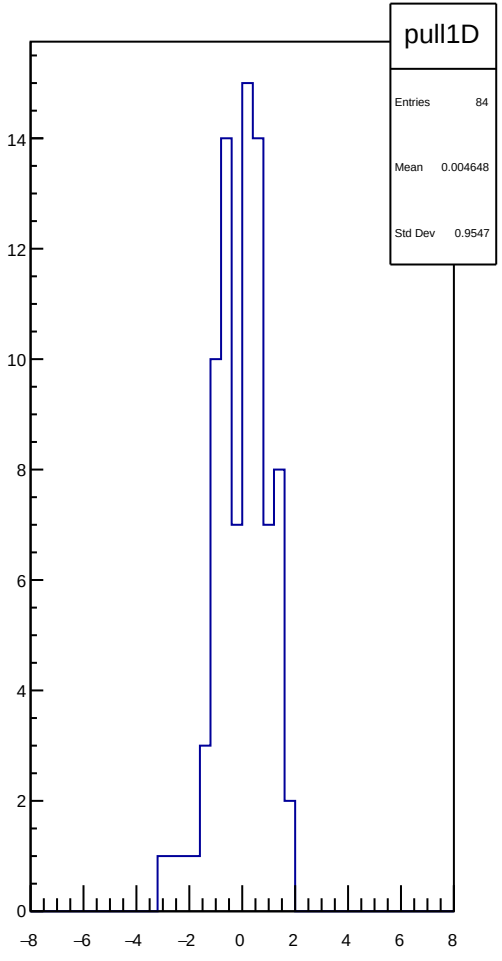

pull1D
Entries 84
Mean 0.004648
Std Dev 0.9547
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

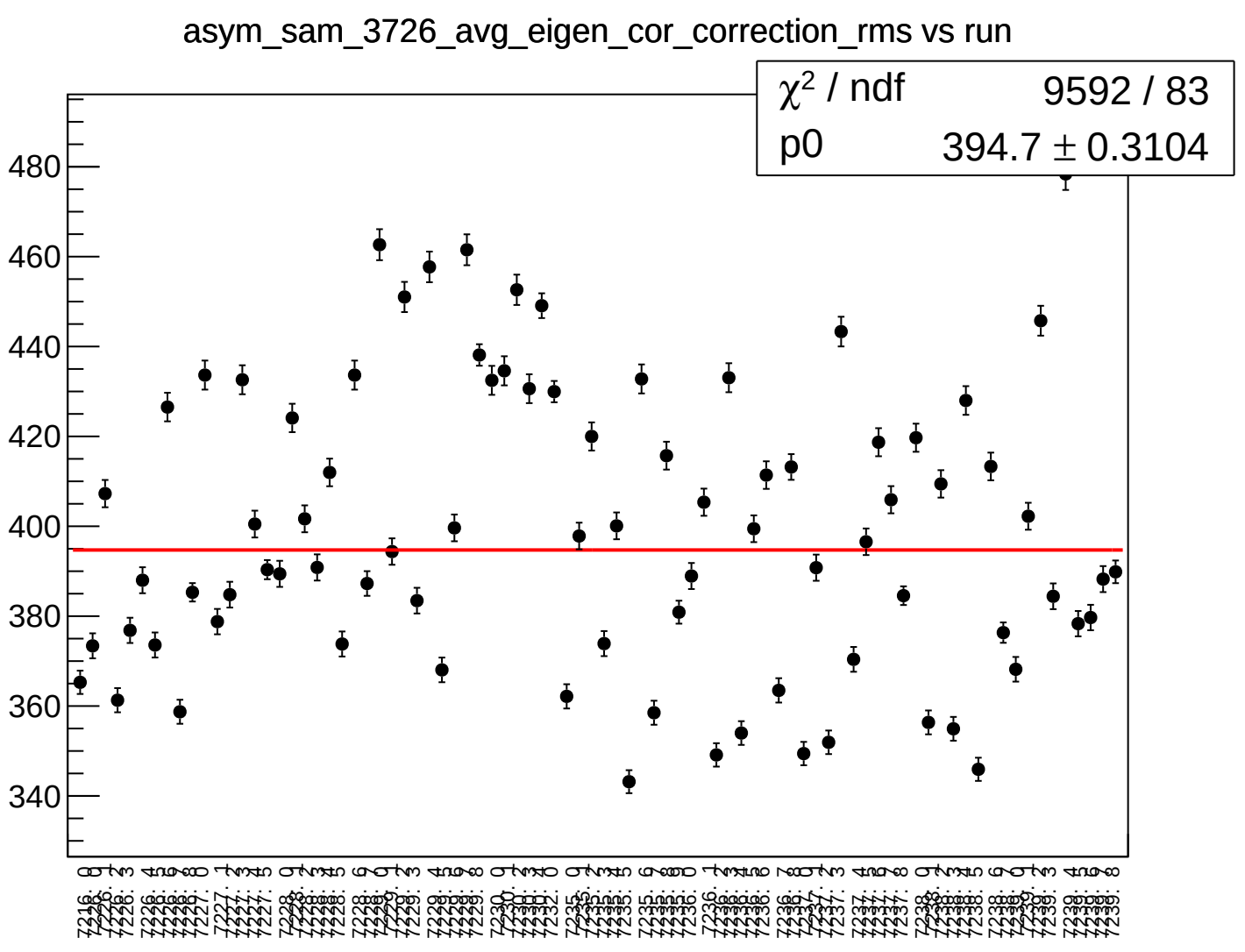

asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 9592 / 83
p0 394.7 ± 0.3104
480
460
440
420
400
380
360
340

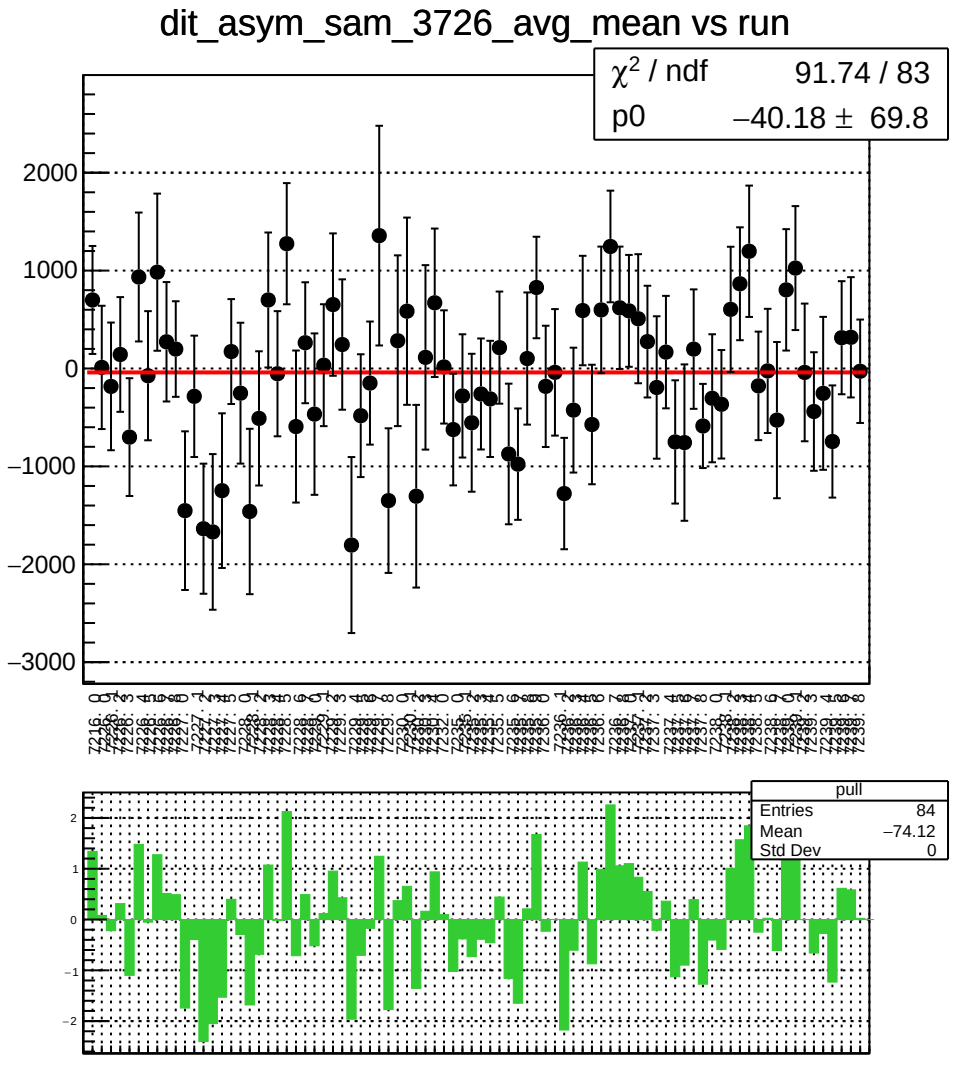

eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 86.66 / 83
p0 −5.688 ± 55.23
2000
1000
0
−1000
−2000
pull
Entries 84
Mean −782.2
Std Dev 0
pull1D
Entries 84
Mean −0.007236
Std Dev 1.016

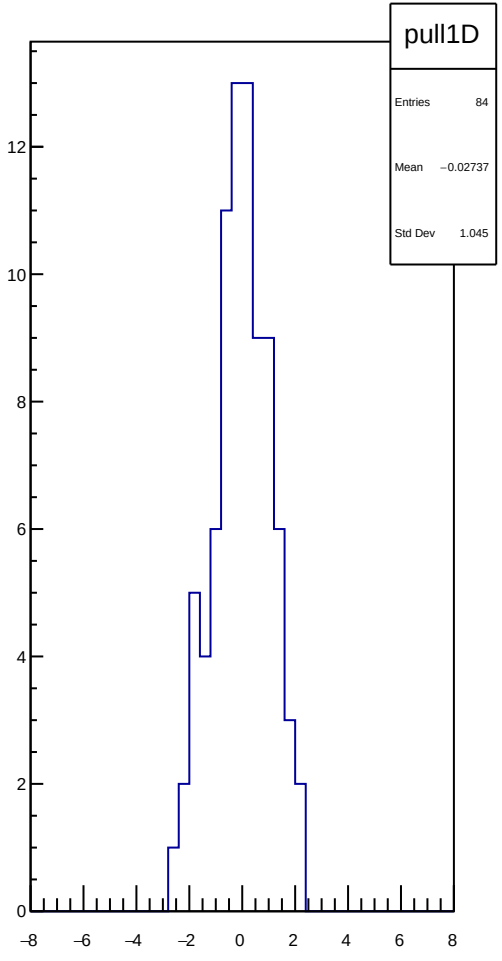

eigen_cor_asym_sam_3726_avg_rms vs run
χ^2 / ndf 4.01e+04 / 83
p0 49.19 ± 0.03905
100
90
80
70
60
50
40

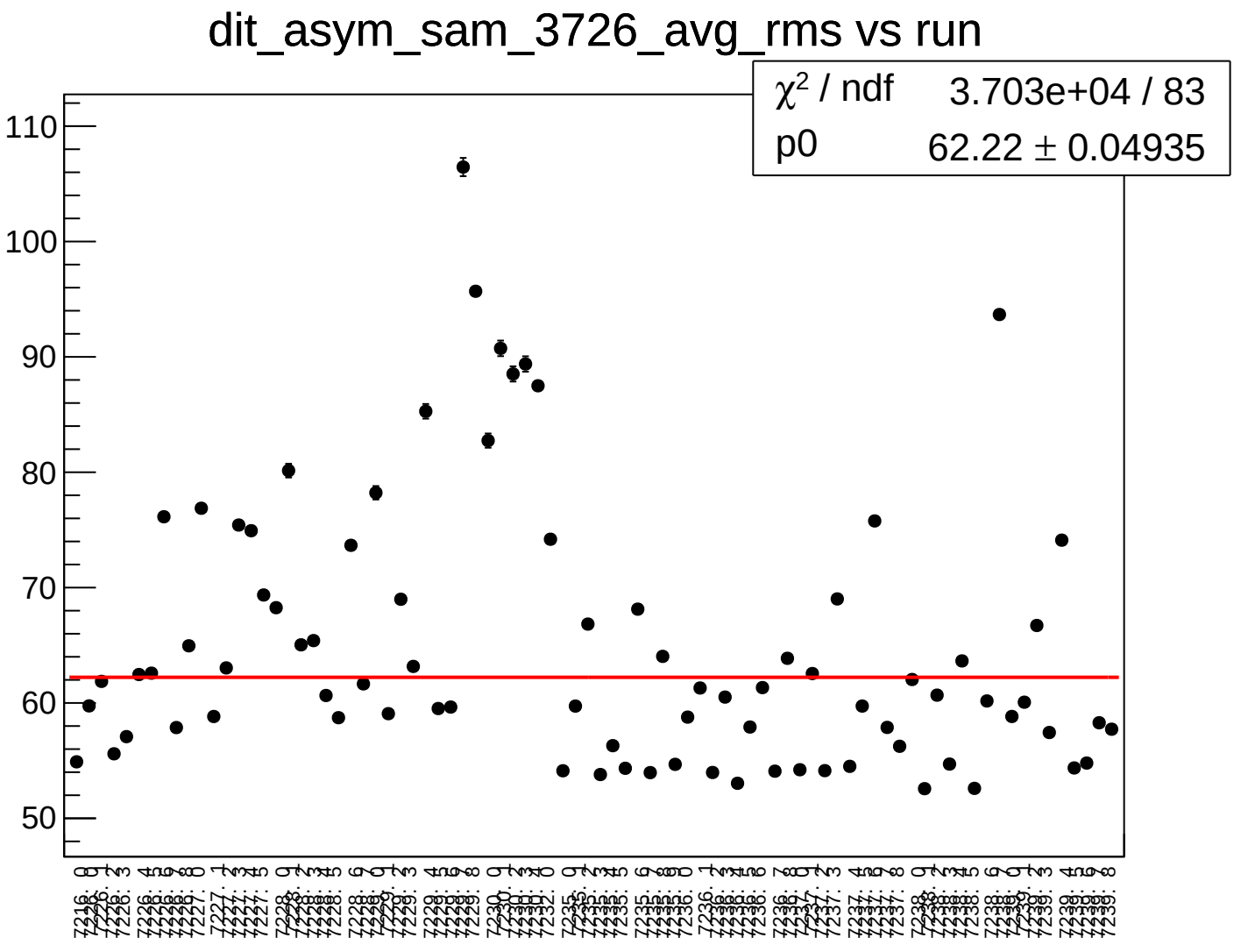

asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 76.56 / 83
p0 −1029 ± 439
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −122.3
Std Dev 0
1
0
−1
−2
−3

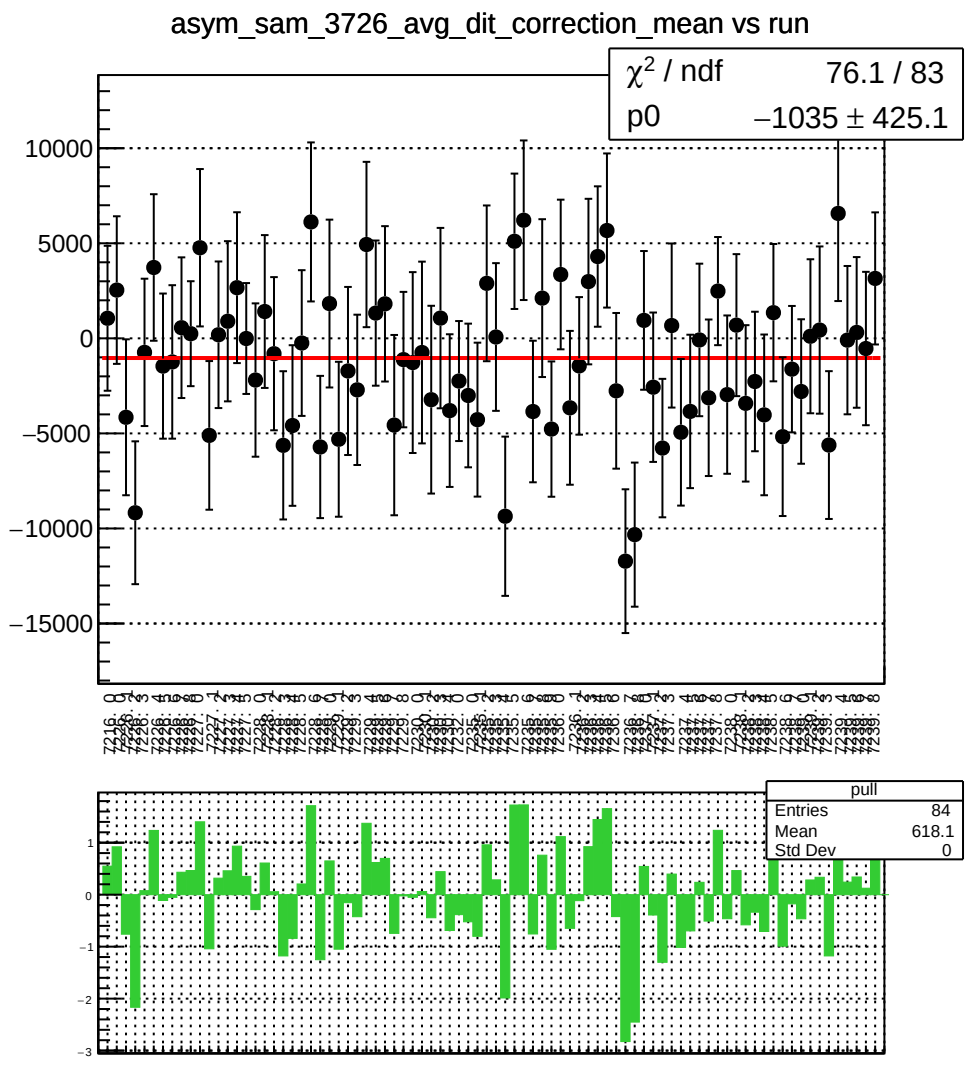

pull1D
Entries 84
Mean 0.004648
Std Dev 0.9547
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

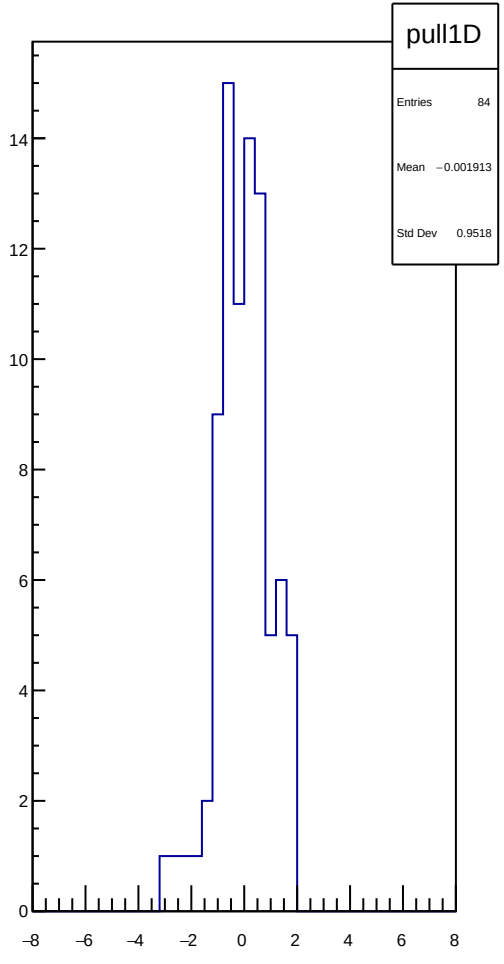

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 9592 / 83
p0 394.7 ± 0.3104
480
460
440
420
400
380
360
340

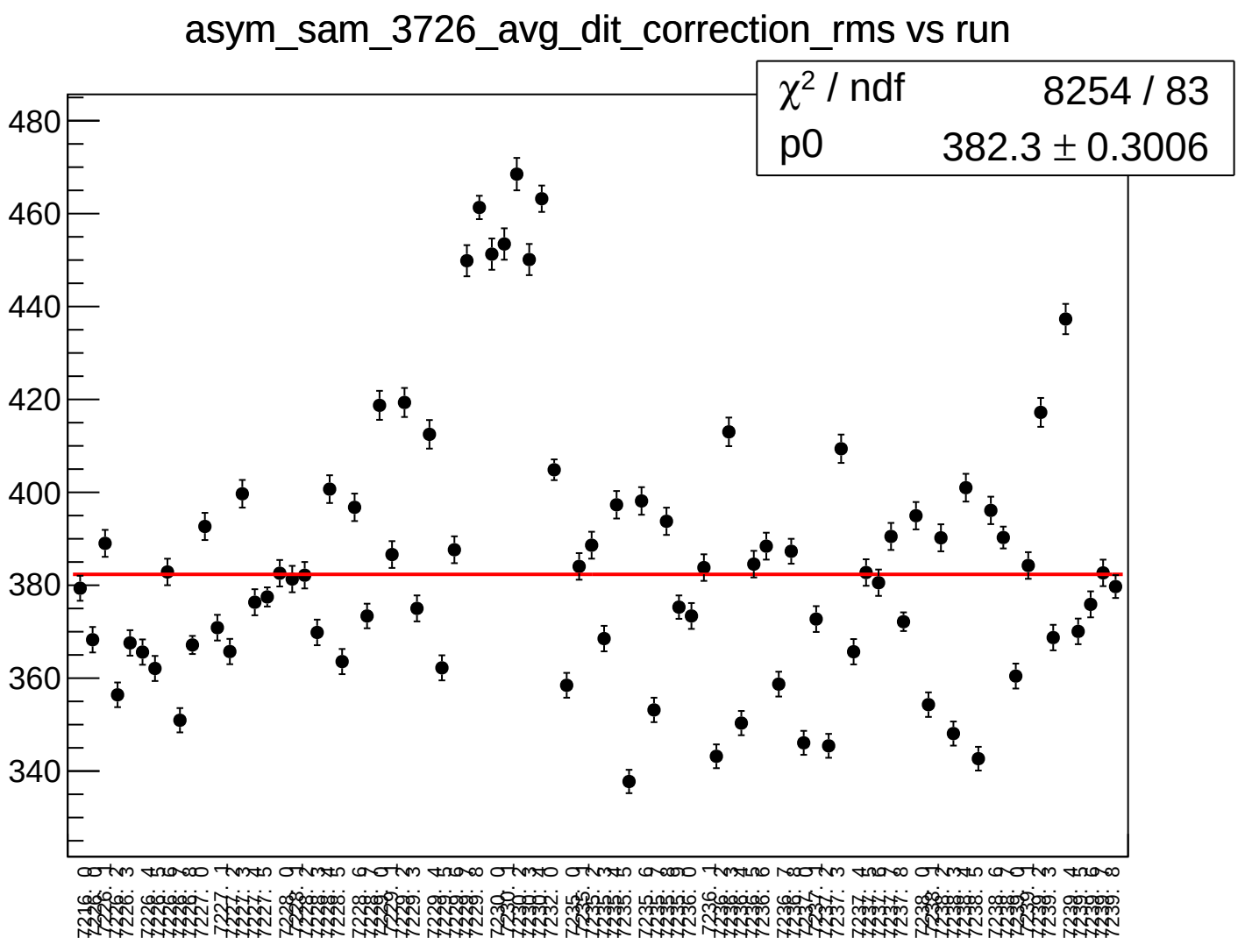

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 91.74 / 83
p0 −40.18 ± 69.8
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean −74.12
Std Dev 0
2
1
0
−1
−2

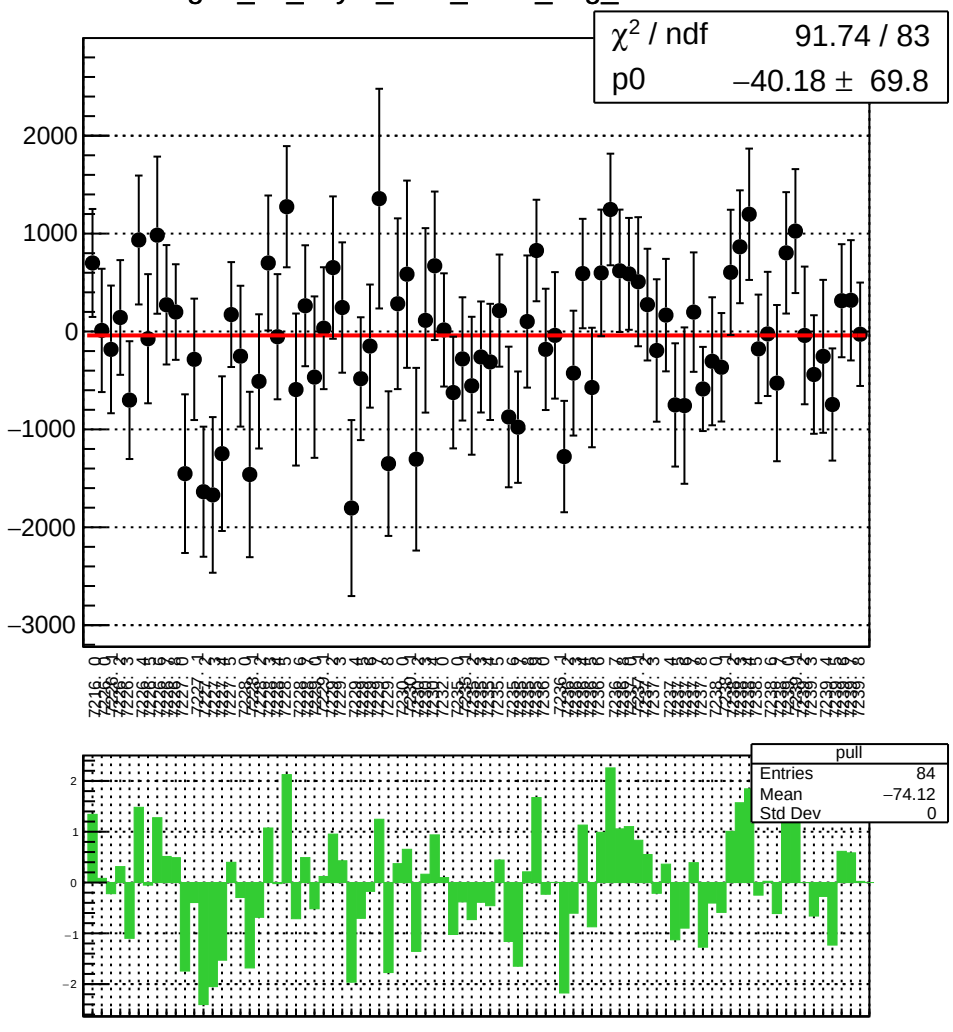

pull1D
Entries 84
Mean −0.02737
Std Dev 1.045
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

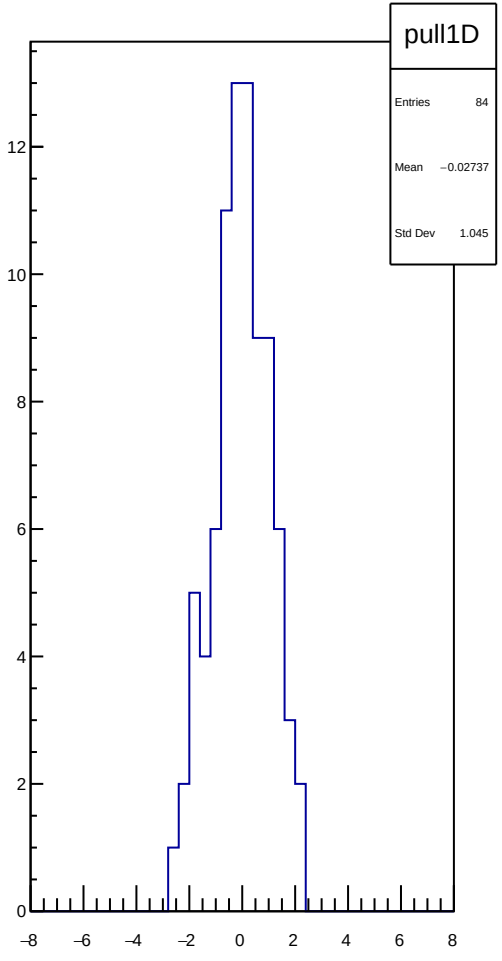

dit_asym_sam_3726_avg_rms vs run
χ^2 / ndf 3.703e+04 / 83
p0 62.22 ± 0.04935
110
100
90
80
70
60
50

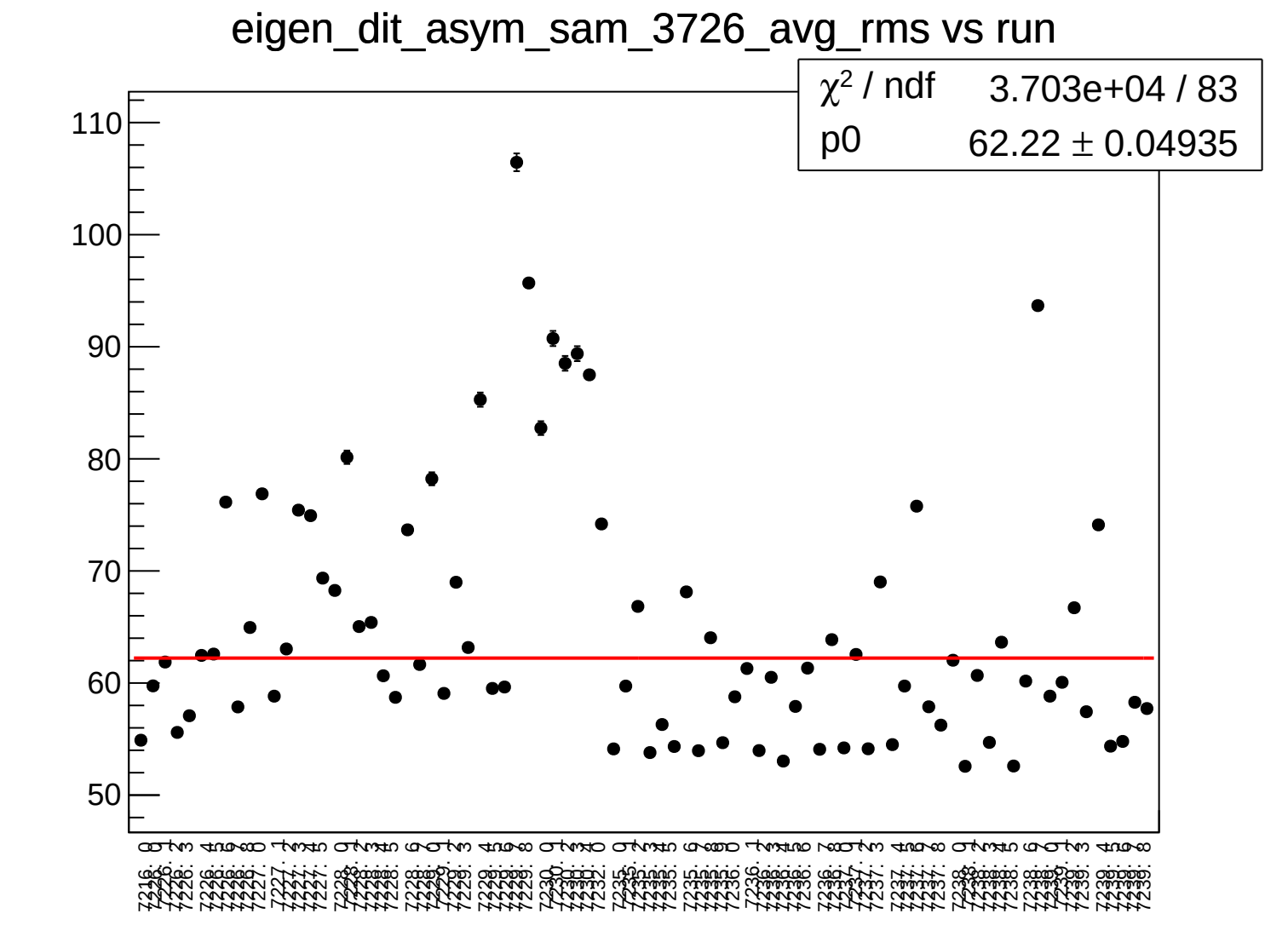

asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 76.1 / 83
p0 −1035 ± 425.1
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 618.1
Std Dev 0
1
0
−1
−2
−3

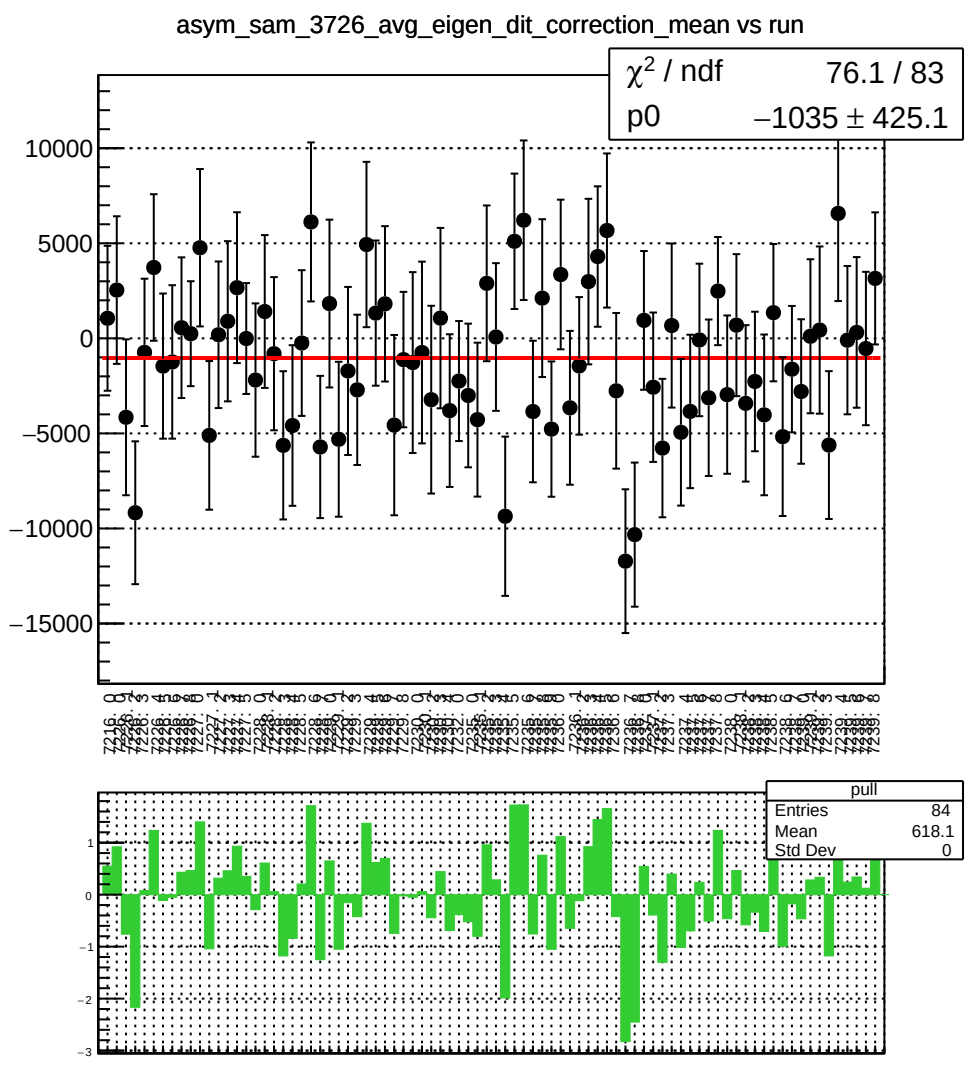

pull1D
Entries 84
Mean −0.001913
Std Dev 0.9518
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

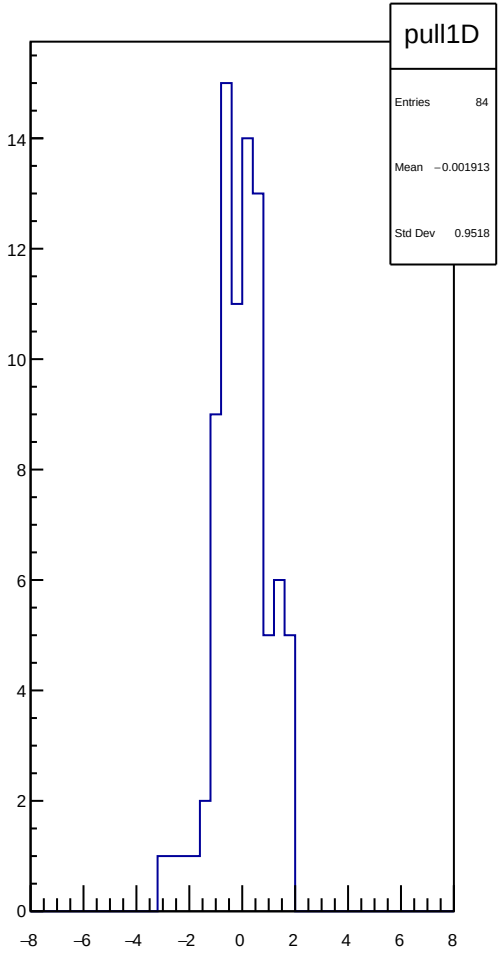

asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 8254 / 83
p0 382.3 ± 0.3006
480
460
440
420
400
380
360
340

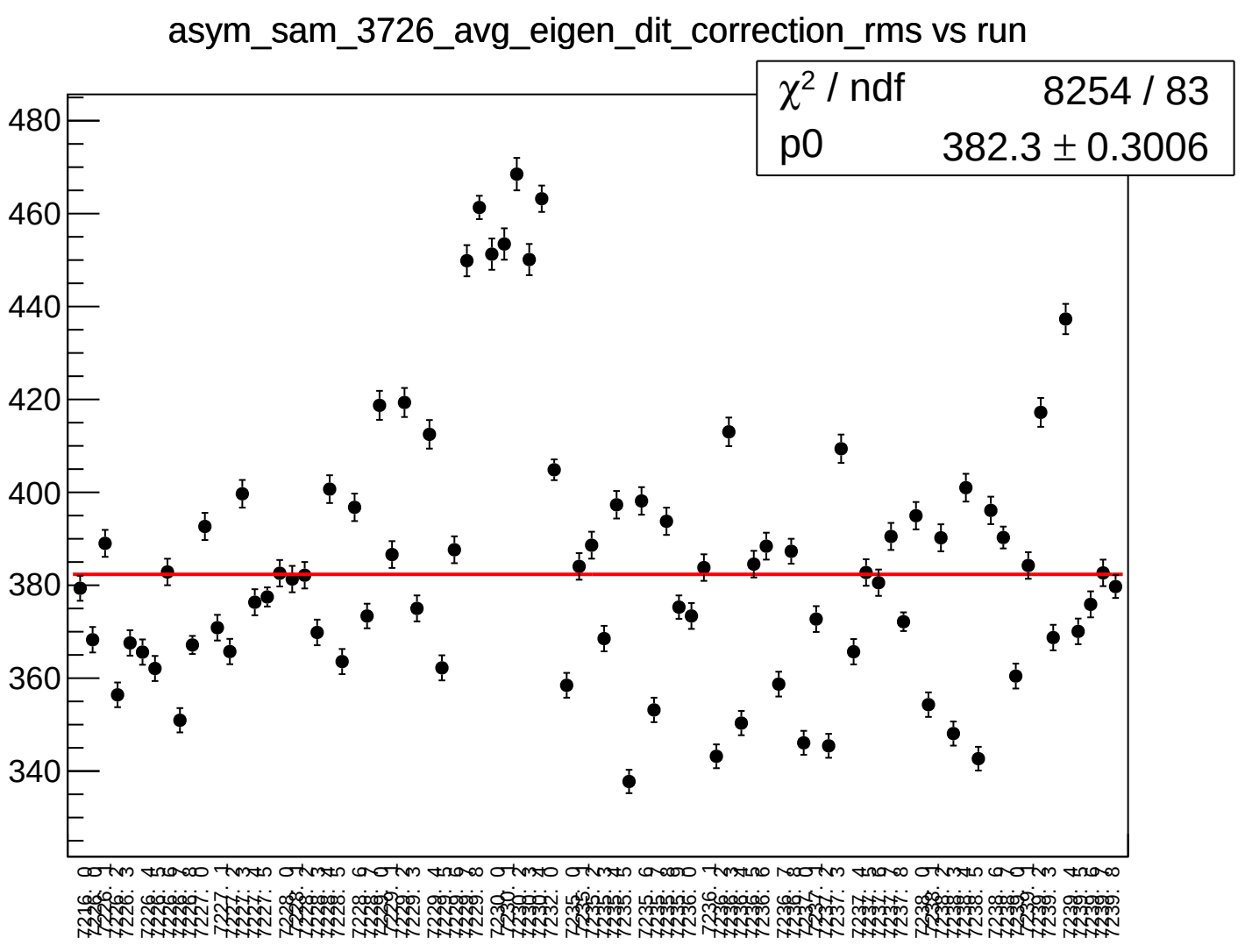

eigen_dit_asym_sam_3726_avg_mean vs run
χ² / ndf 91.74 / 83
p0 −40.18 ± 69.8
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean −74.12
Std Dev 0
2
1
0
−1
−2

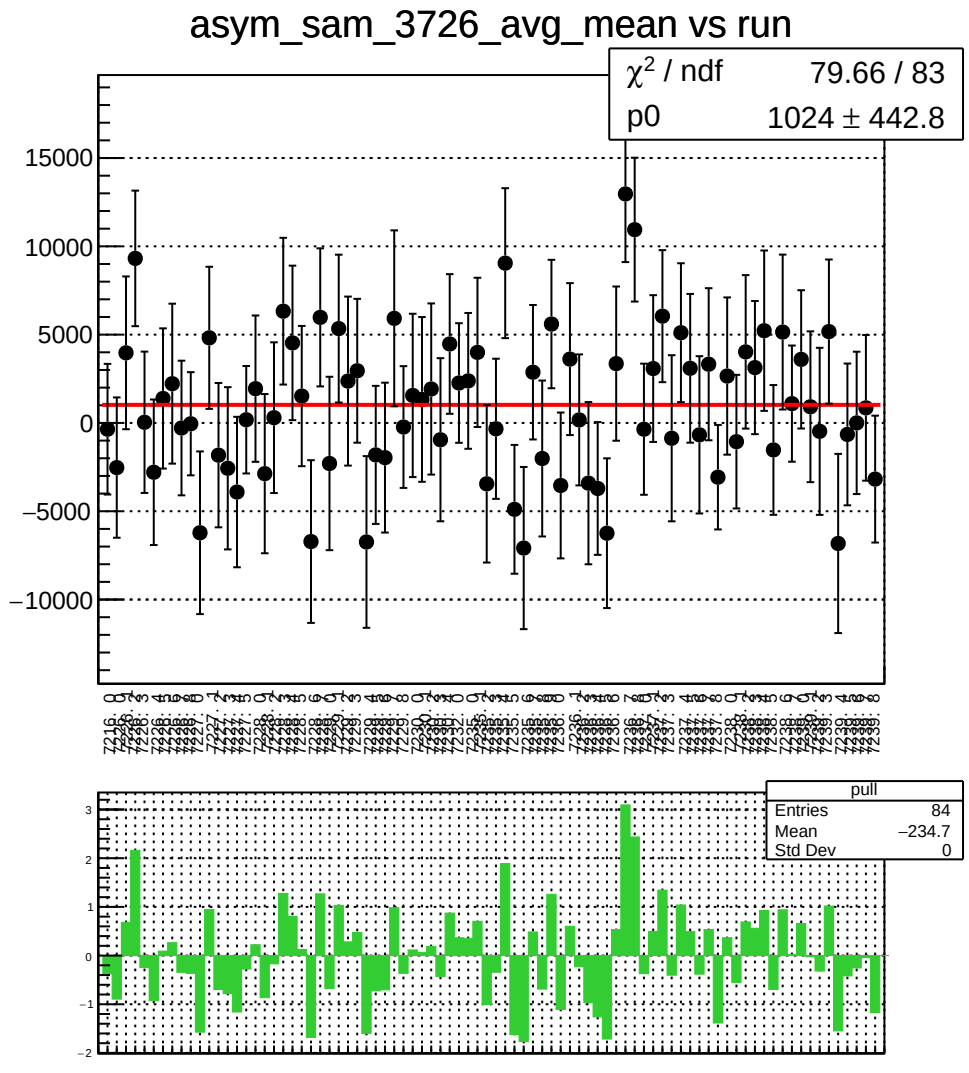

pull1D
Entries 84
Mean −0.02737
Std Dev 1.045
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

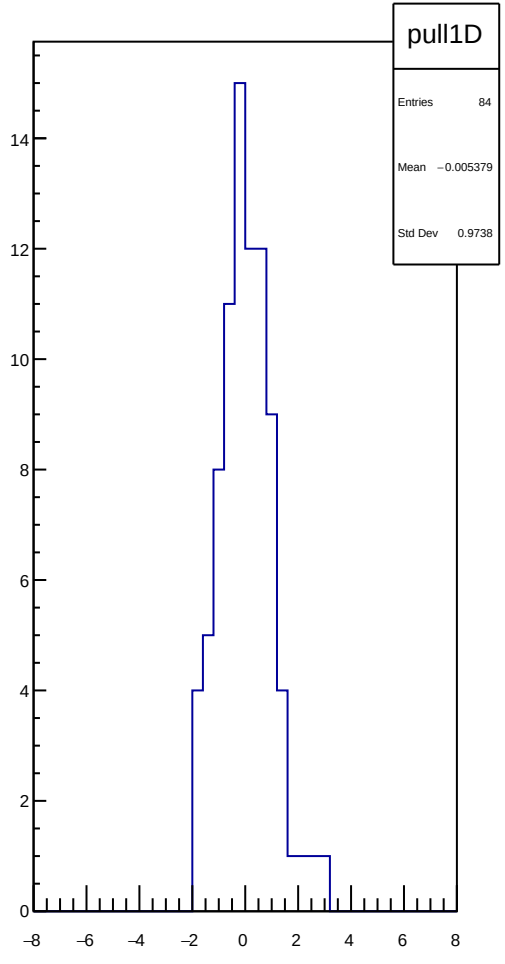

eigen_dit_asym_sam_3726_avg_rms vs run
χ^2 / ndf 3.703e+04 / 83
p0 62.22 ± 0.04935
110
100
90
80
70
60
50

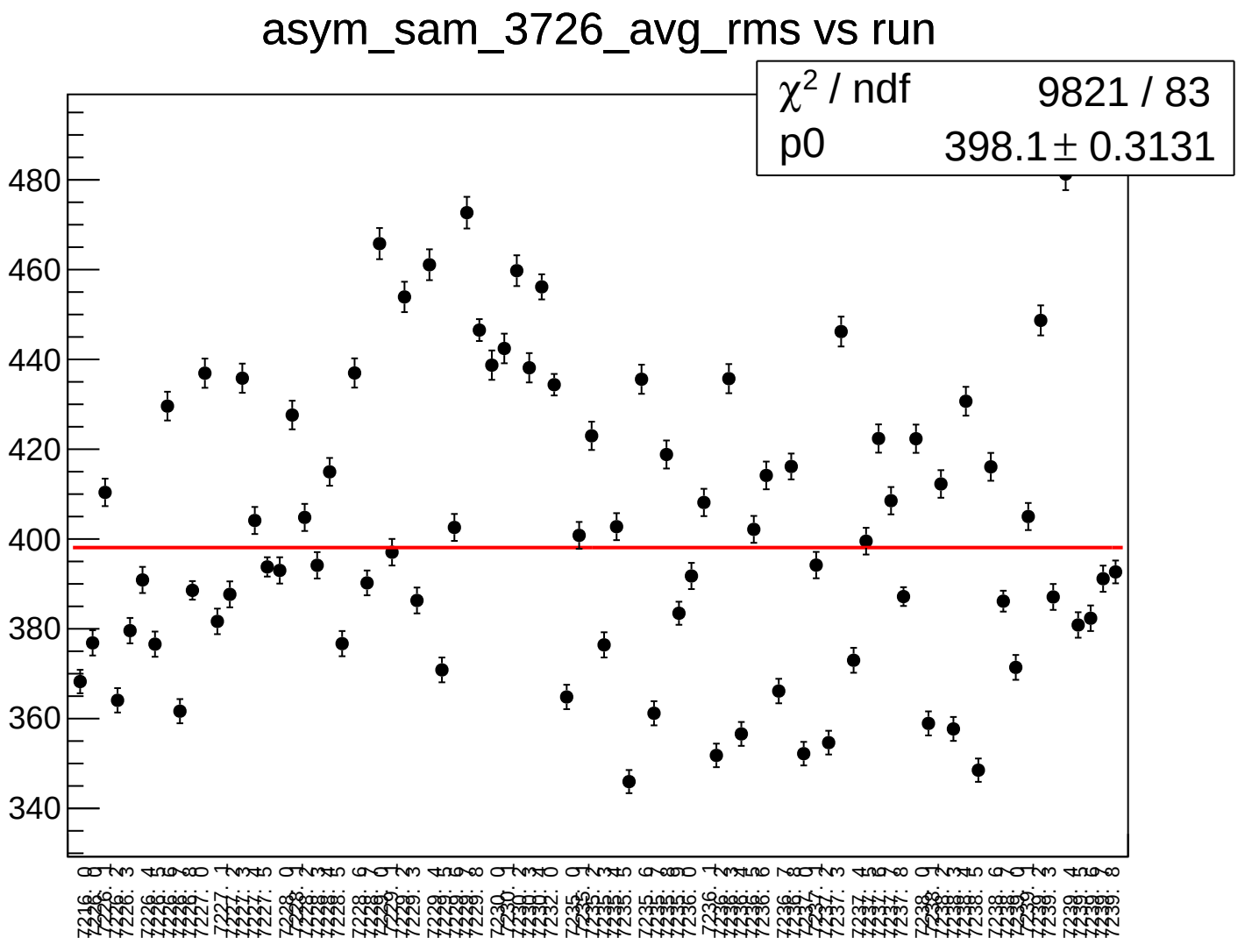

asym_sam_3726_avg_eigen_dit_correction_mean vs run
χ² / ndf 76.1 / 83
p0 −1035 ± 425.1
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 618.1
Std Dev 0
1
0
−1
−2
−3

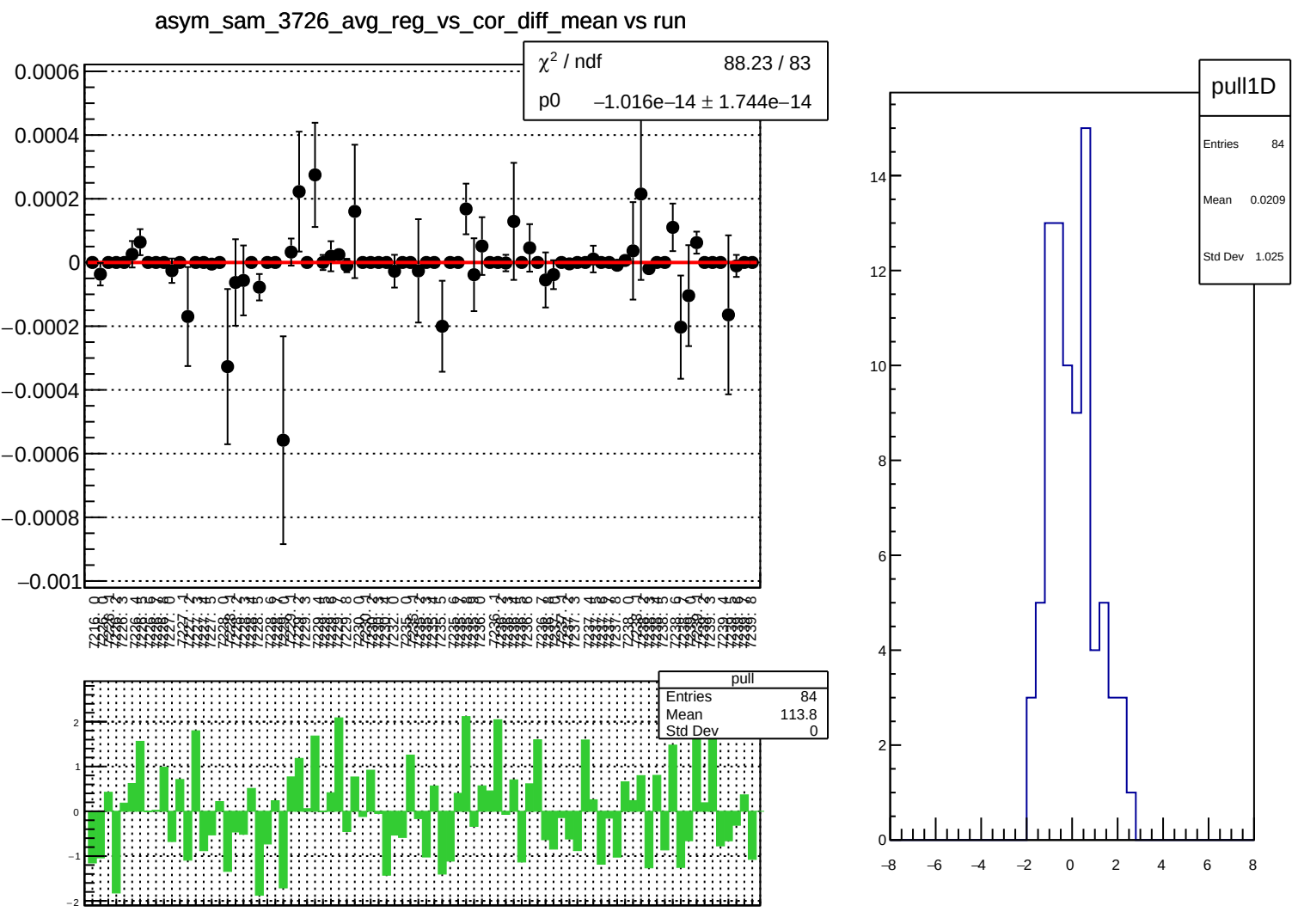

pull1D
Entries 84
Mean −0.001913
Std Dev 0.9518
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

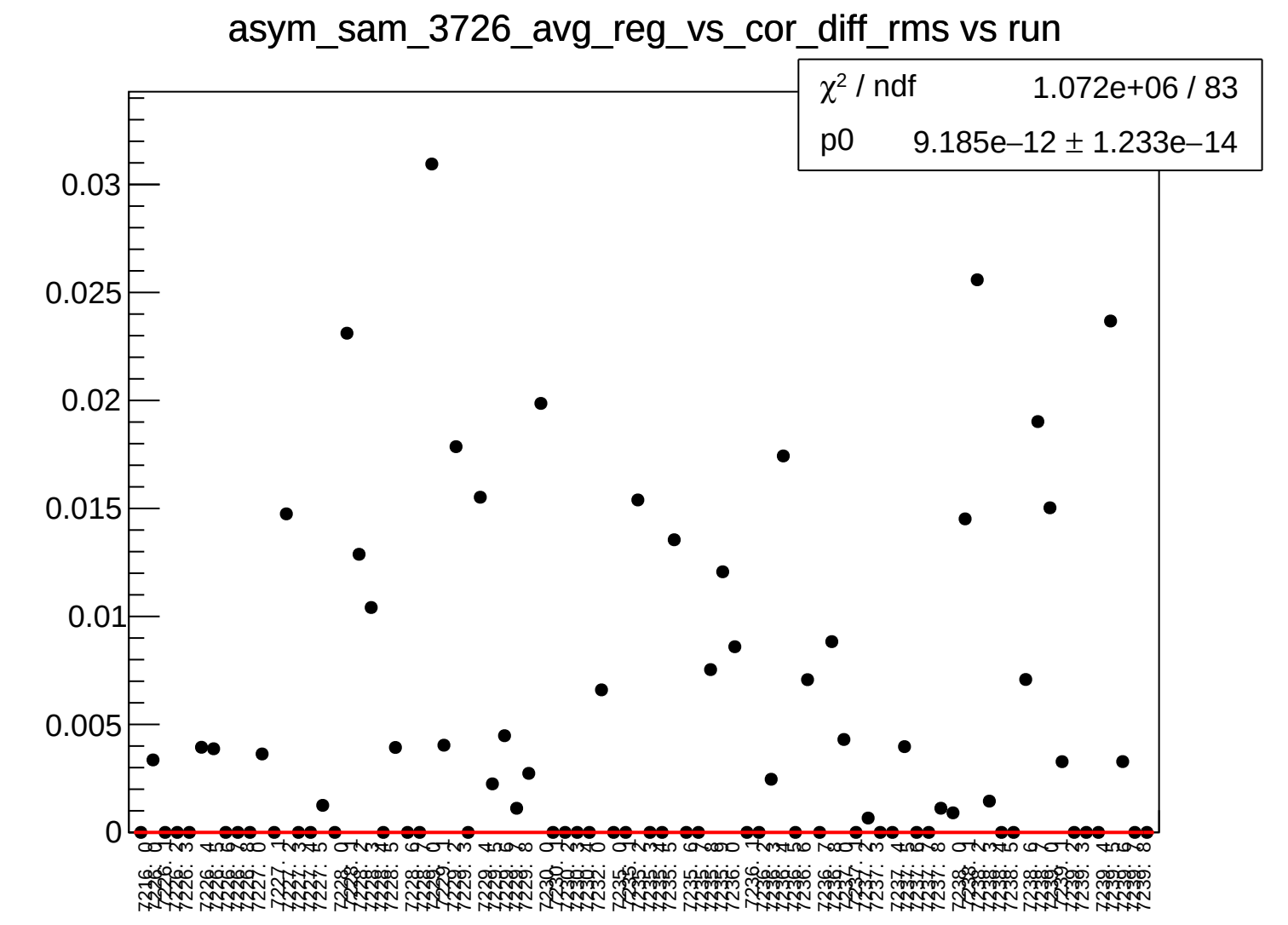

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 8254 / 83
p0 382.3 ± 0.3006
480
460
440
420
400
380
360
340

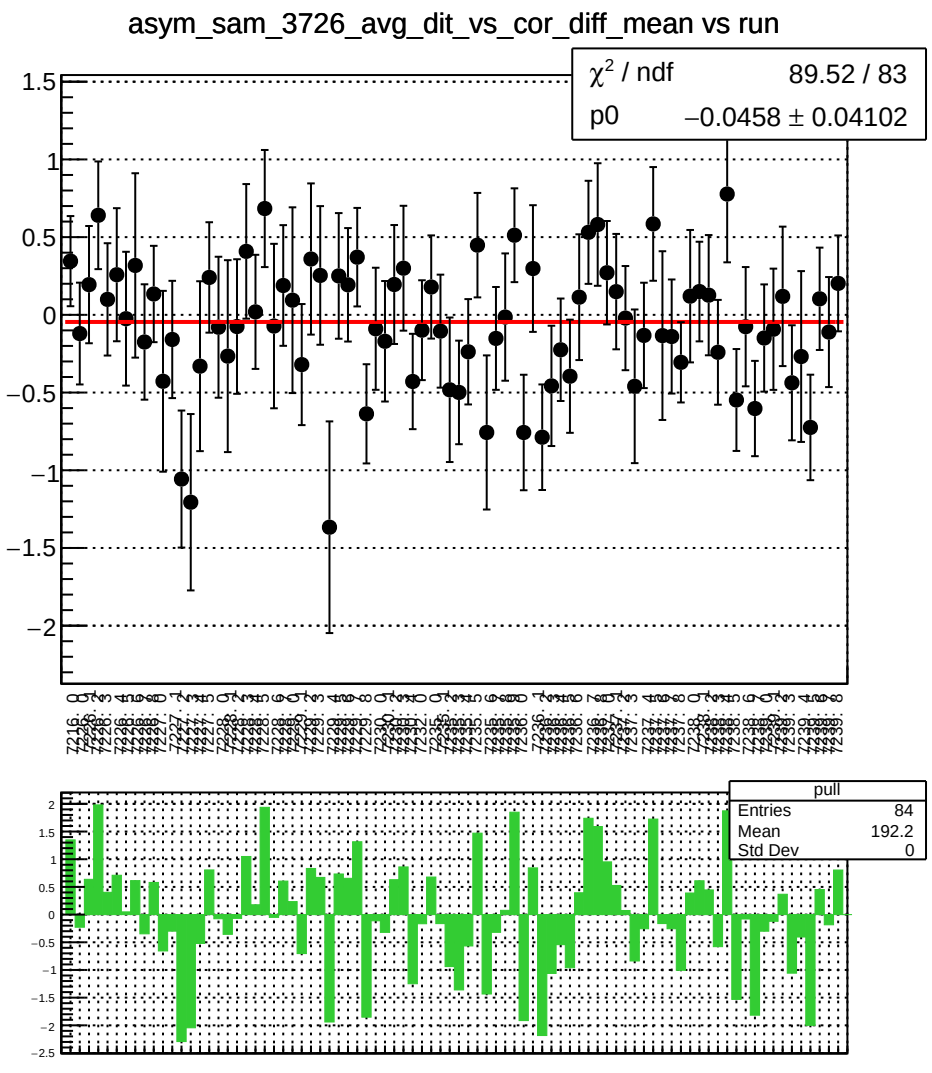

asym_sam_3726_avg_mean vs run
χ² / ndf 79.66 / 83
p0 1024 ± 442.8
15000
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −234.7
Std Dev 0
3
2
1
0
−1
−2

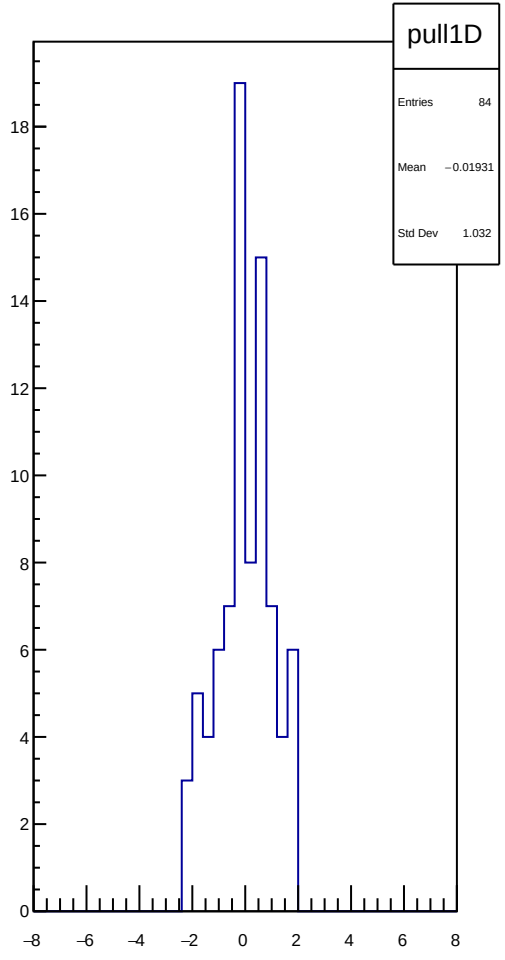

pull1D
Entries 84
Mean −0.005379
Std Dev 0.9738
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

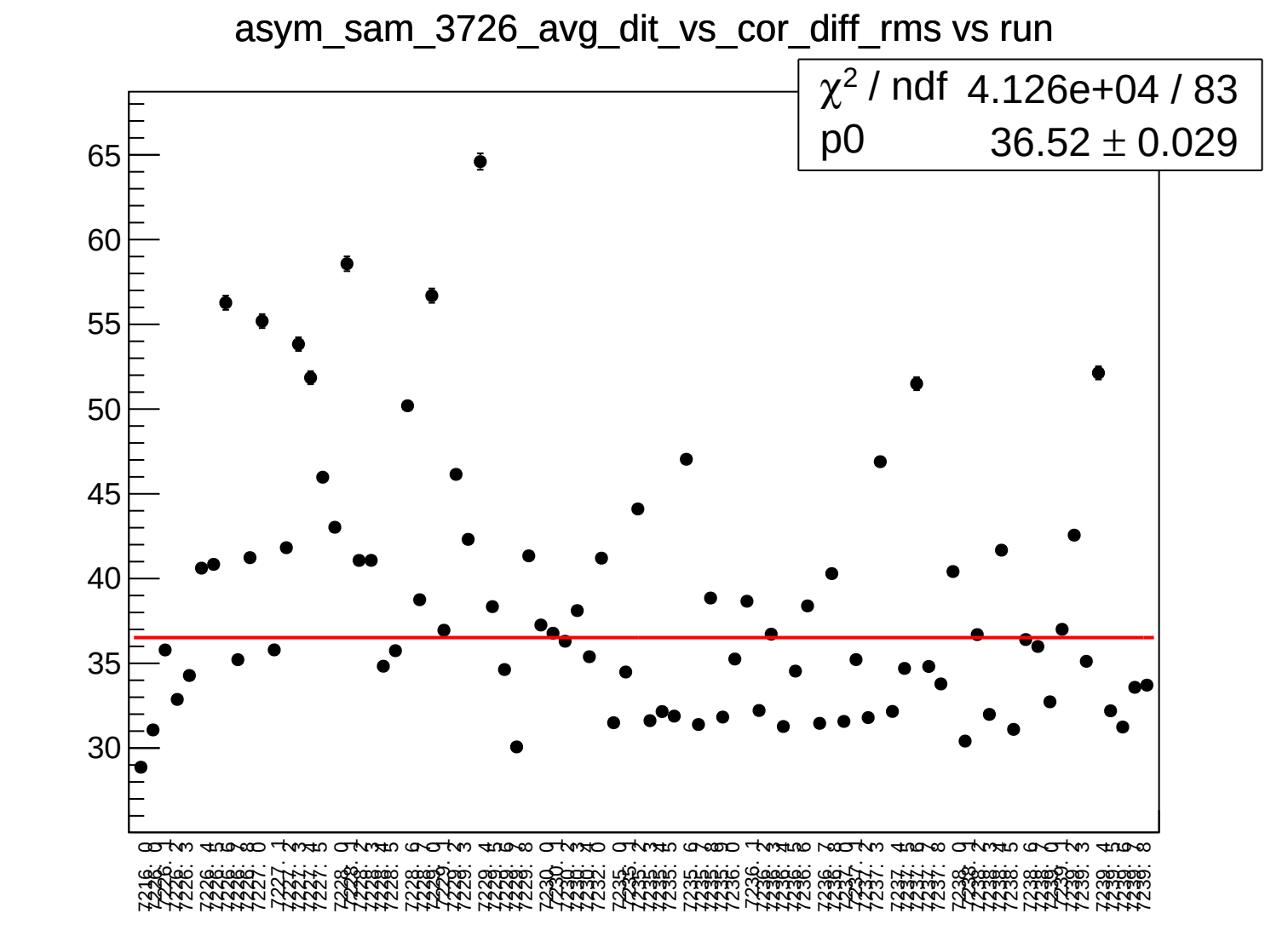

asym_sam_3726_avg_rms vs run
χ^2 / ndf 9821 / 83
p0 398.1 ± 0.3131
480
460
440
420
400
380
360
340

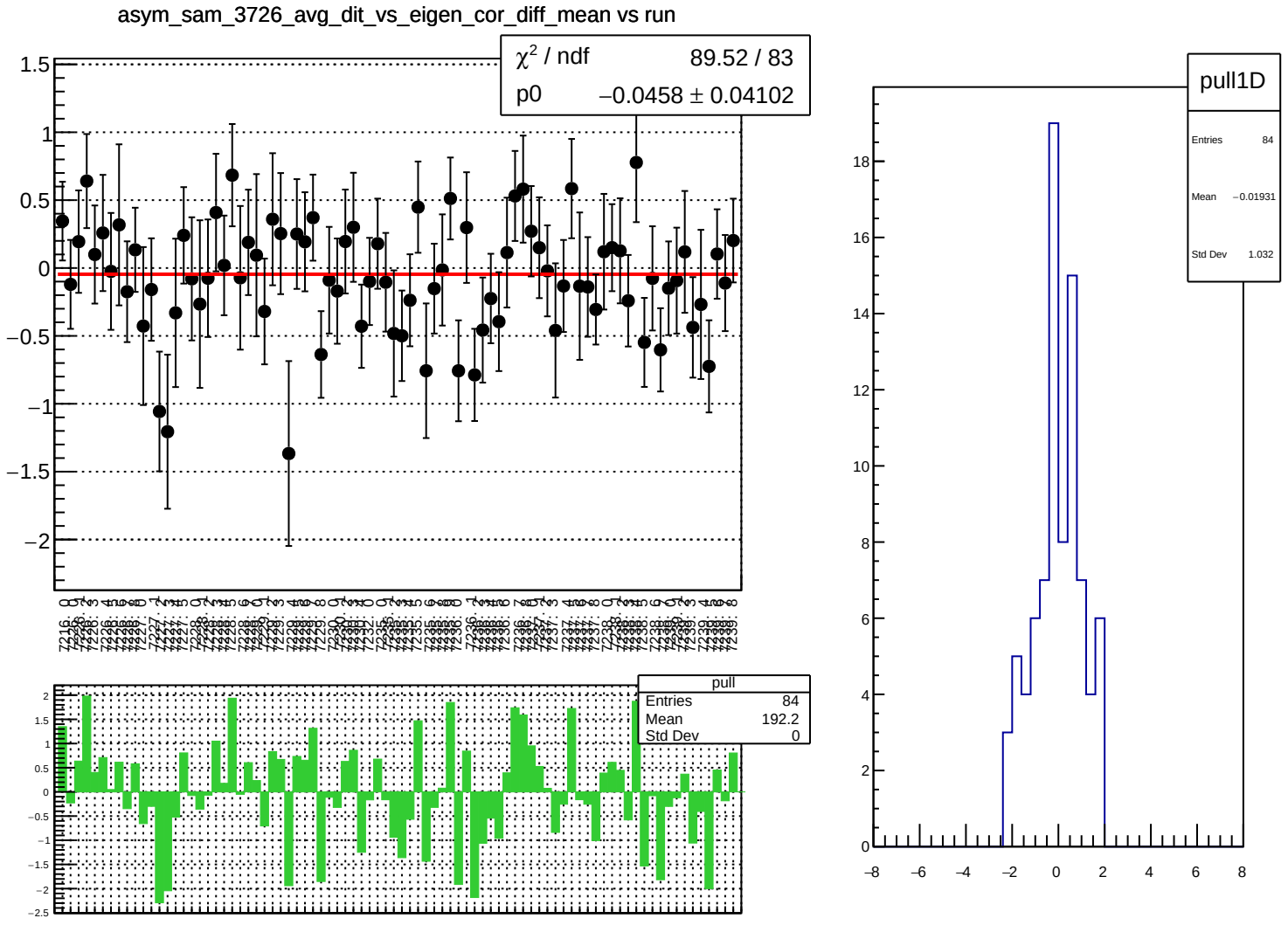

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 88.23 / 83
p0 −1.016e−14 ± 1.744e−14
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 84
Mean 113.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.0209
Std Dev 1.025
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

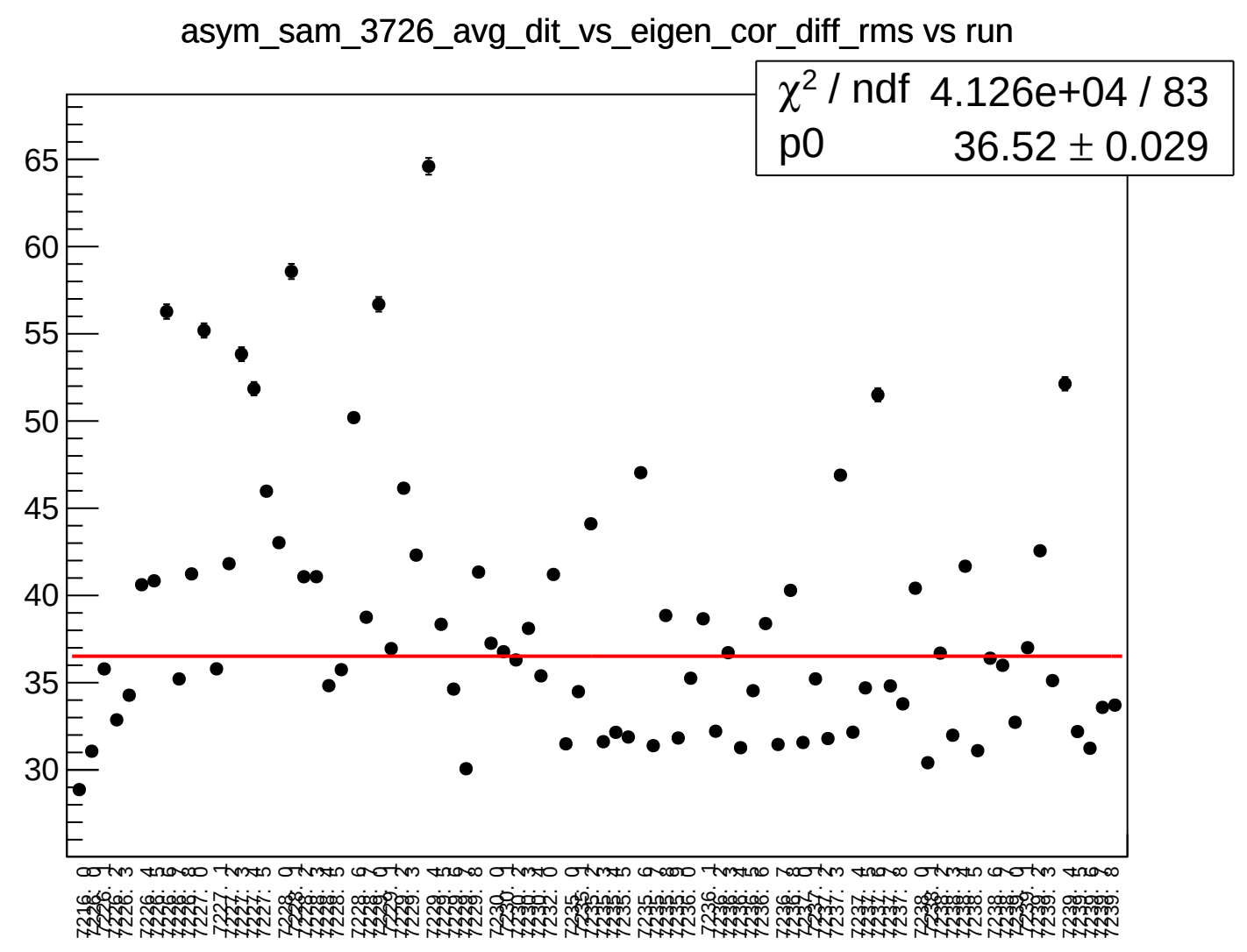

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.072e+06 / 83
p0 9.185e−12 ± 1.233e−14
0.03
0.025
0.02
0.015
0.01
0.005
0

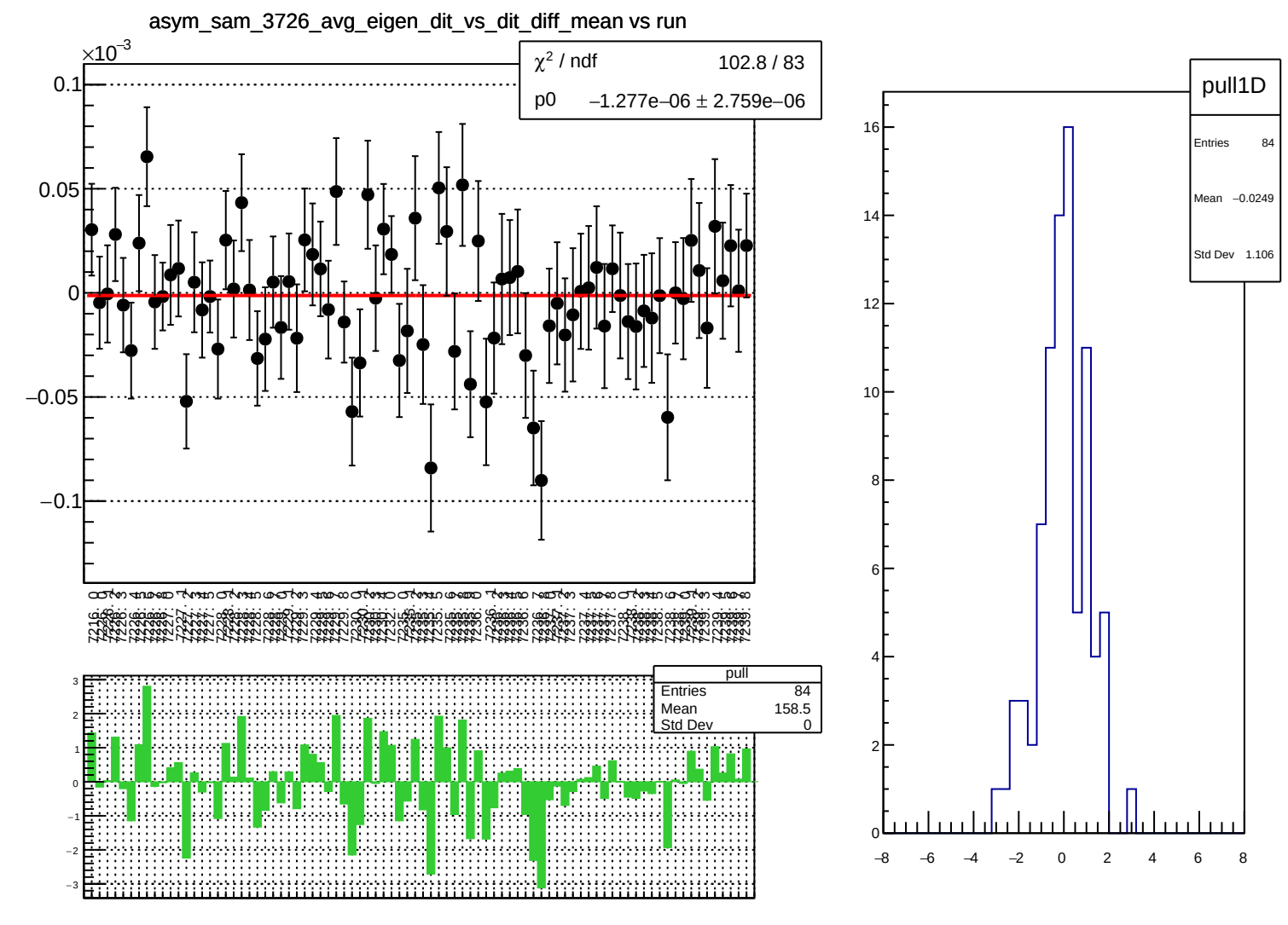

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 89.52 / 83
p0 −0.0458 ± 0.04102
pull
Entries 84
Mean 192.2
Std Dev 0

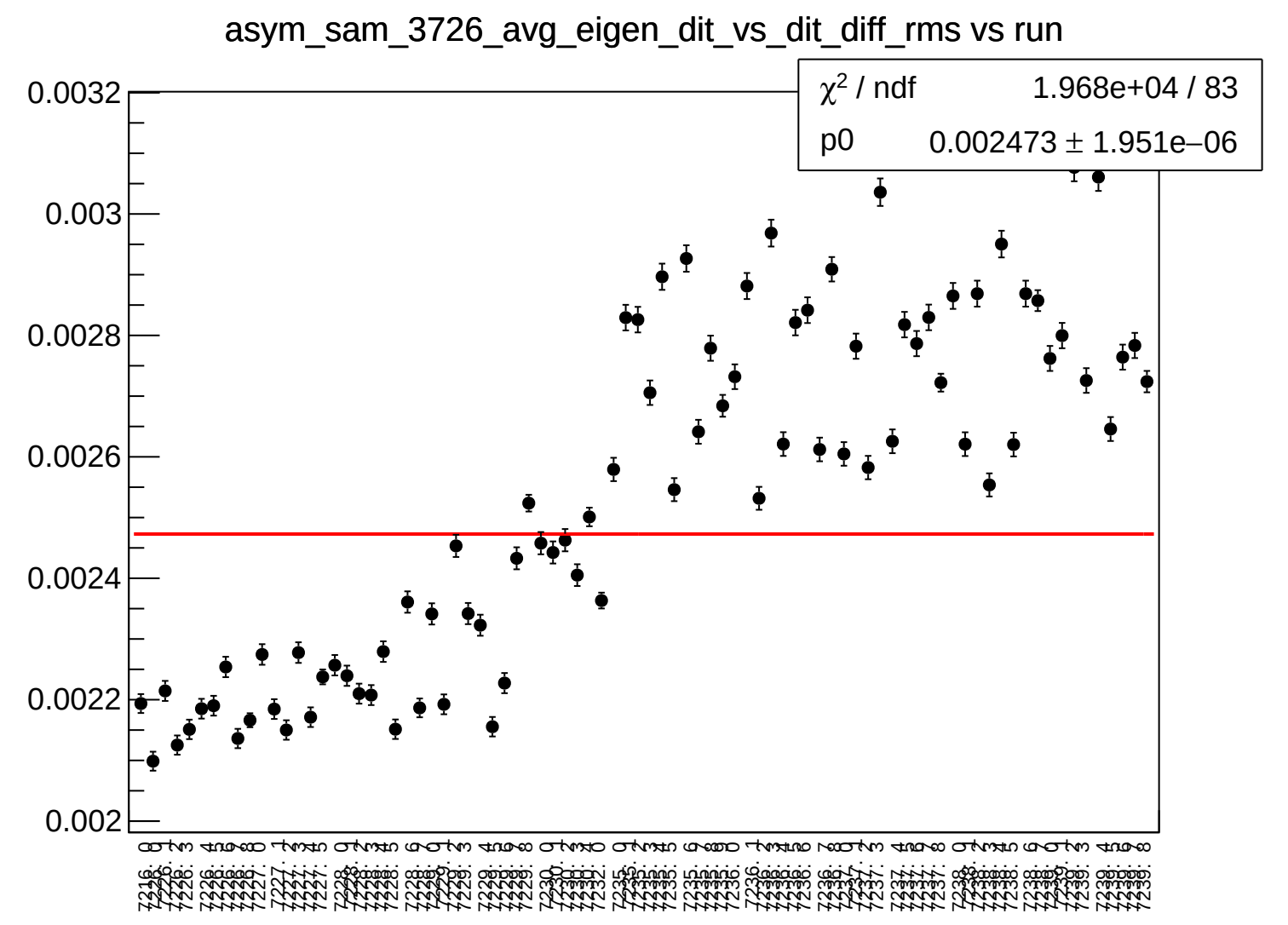

pull1D
Entries 84
Mean −0.01931
Std Dev 1.032

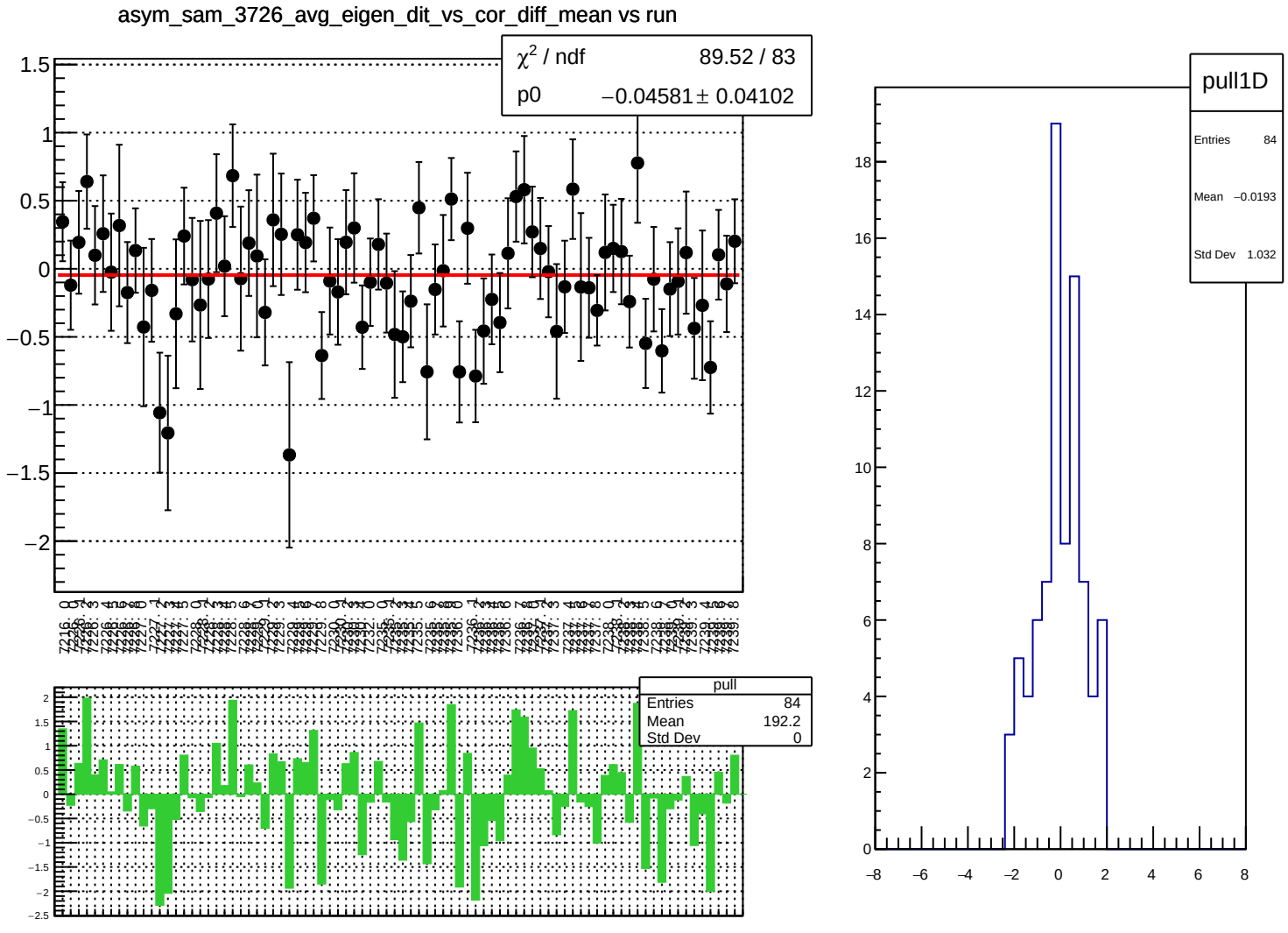

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.126e+04 / 83
p0 36.52 ± 0.029
65
60
55
50
45
40
35
30

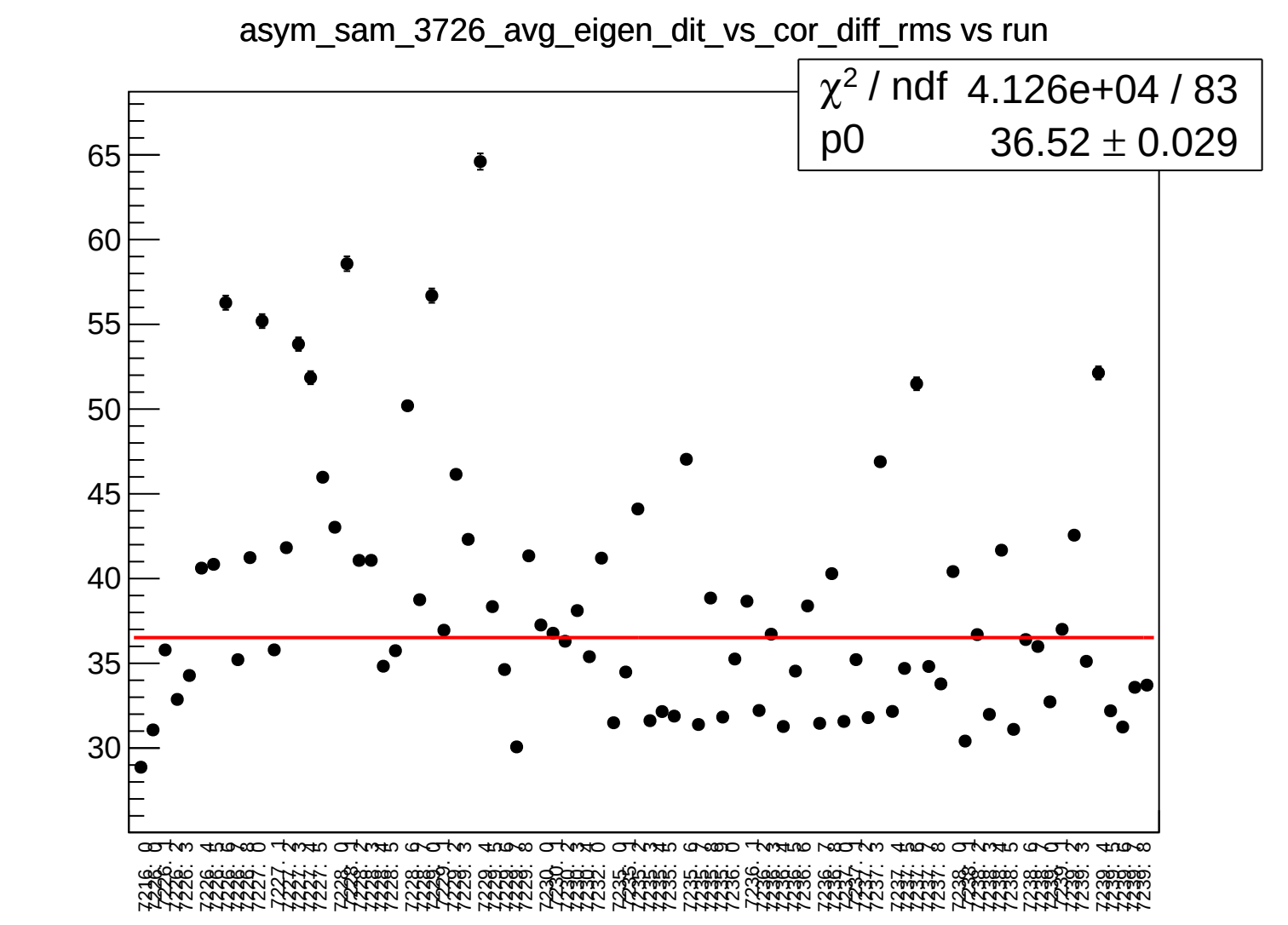

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.52 / 83
p0 −0.0458 ± 0.04102
pull
Entries 84
Mean 192.2
Std Dev 0
pull1D
Entries 84
Mean −0.01931
Std Dev 1.032

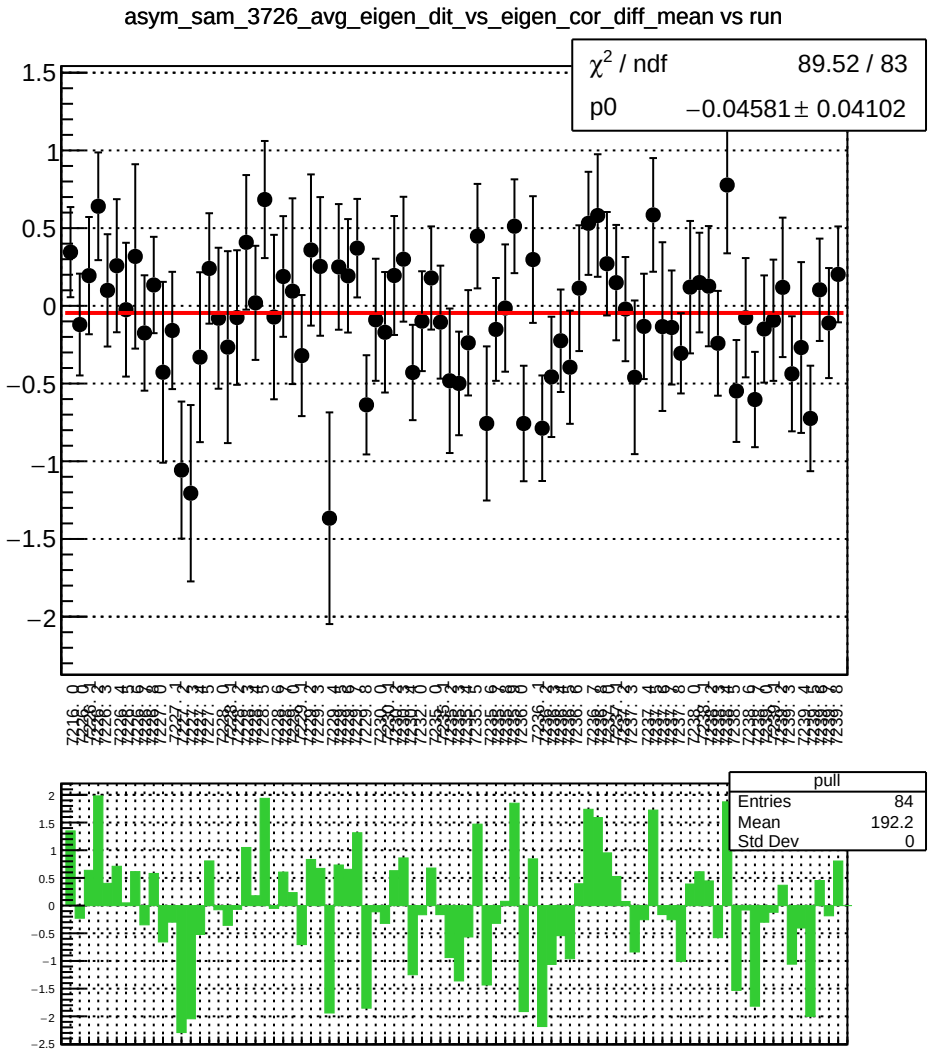

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.126e+04 / 83
p0 36.52 ± 0.029
65
60
55
50
45
40
35
30

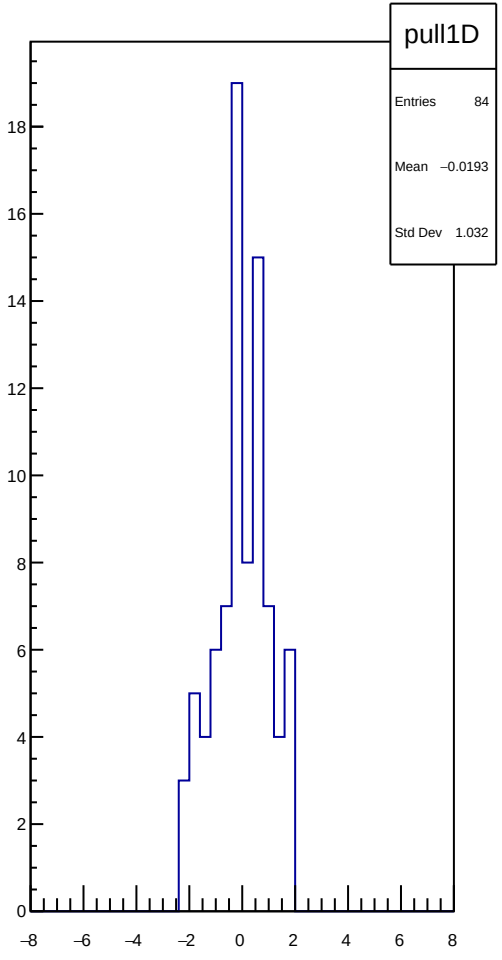

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 102.8 / 83
p0 −1.277e−06 ± 2.759e−06
pull
Entries 84
Mean 158.5
Std Dev 0
pull1D
Entries 84
Mean −0.0249
Std Dev 1.106

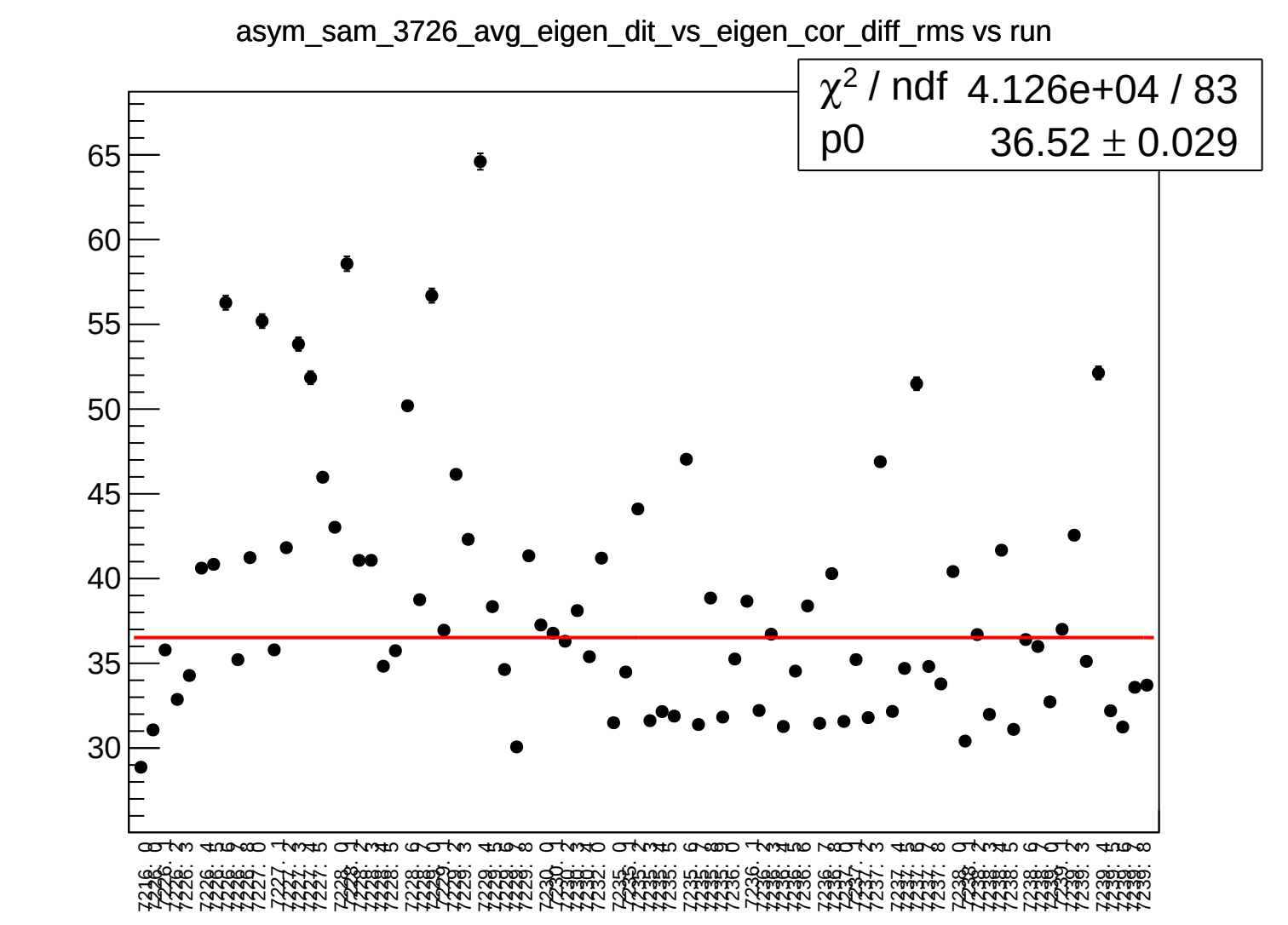

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.968e+04 / 83
p0 0.002473 ± 1.951e−06
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002

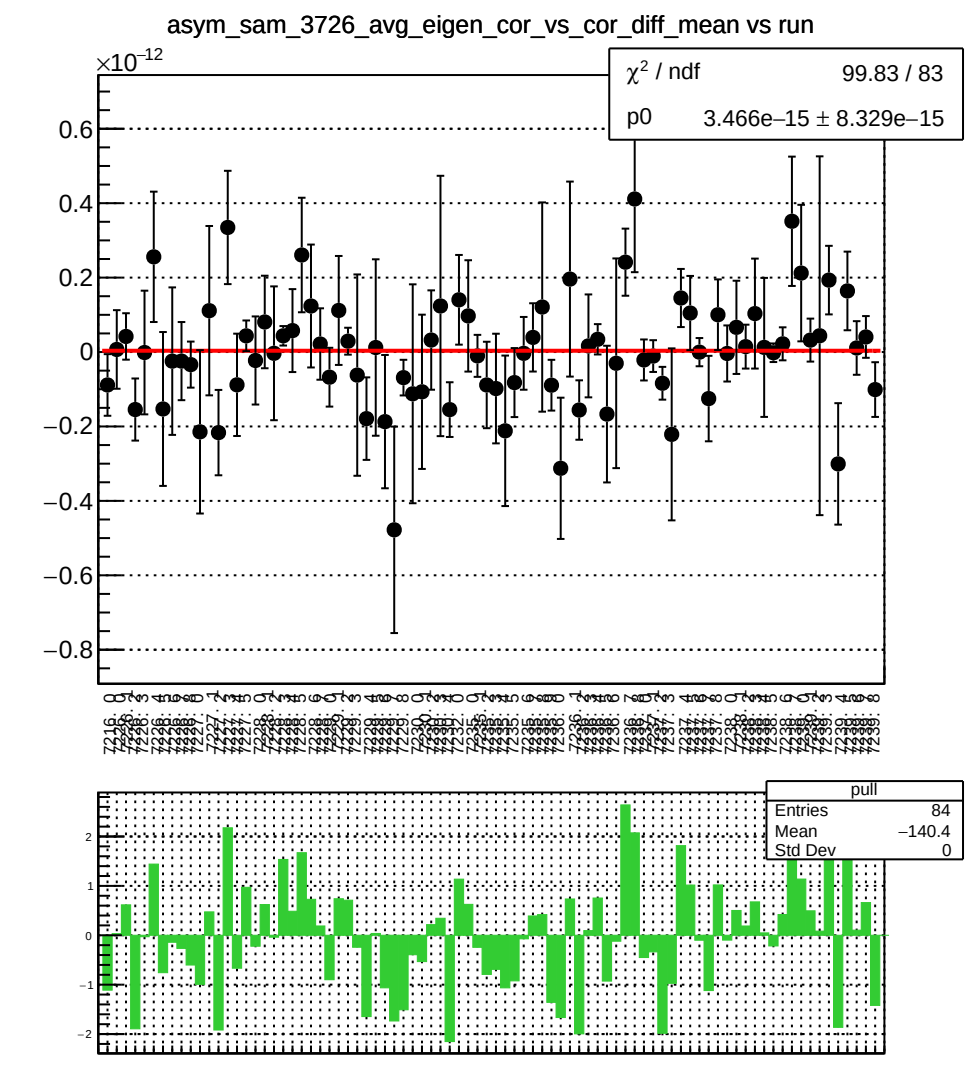

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.52 / 83
p0 −0.04581 ± 0.04102
pull
Entries 84
Mean 192.2
Std Dev 0
pull1D
Entries 84
Mean −0.0193
Std Dev 1.032

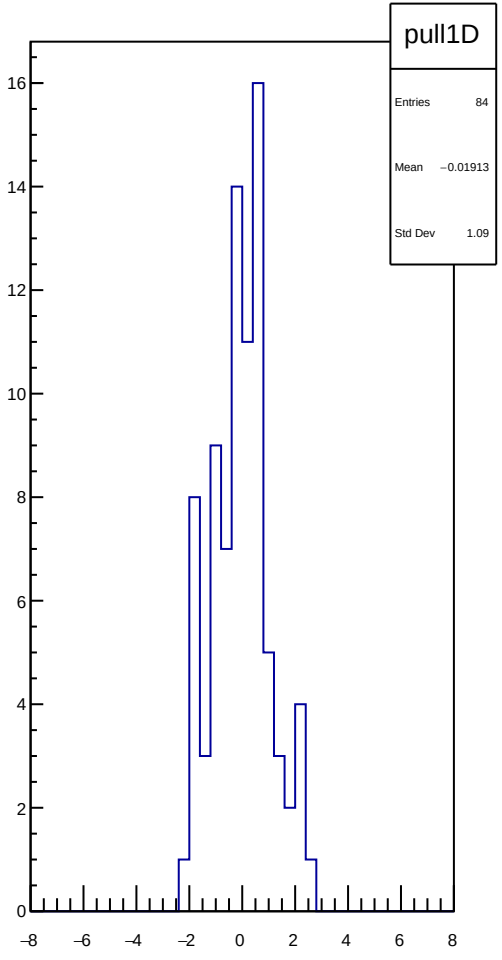

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.126e+04 / 83
p0 36.52 ± 0.029
65
60
55
50
45
40
35
30

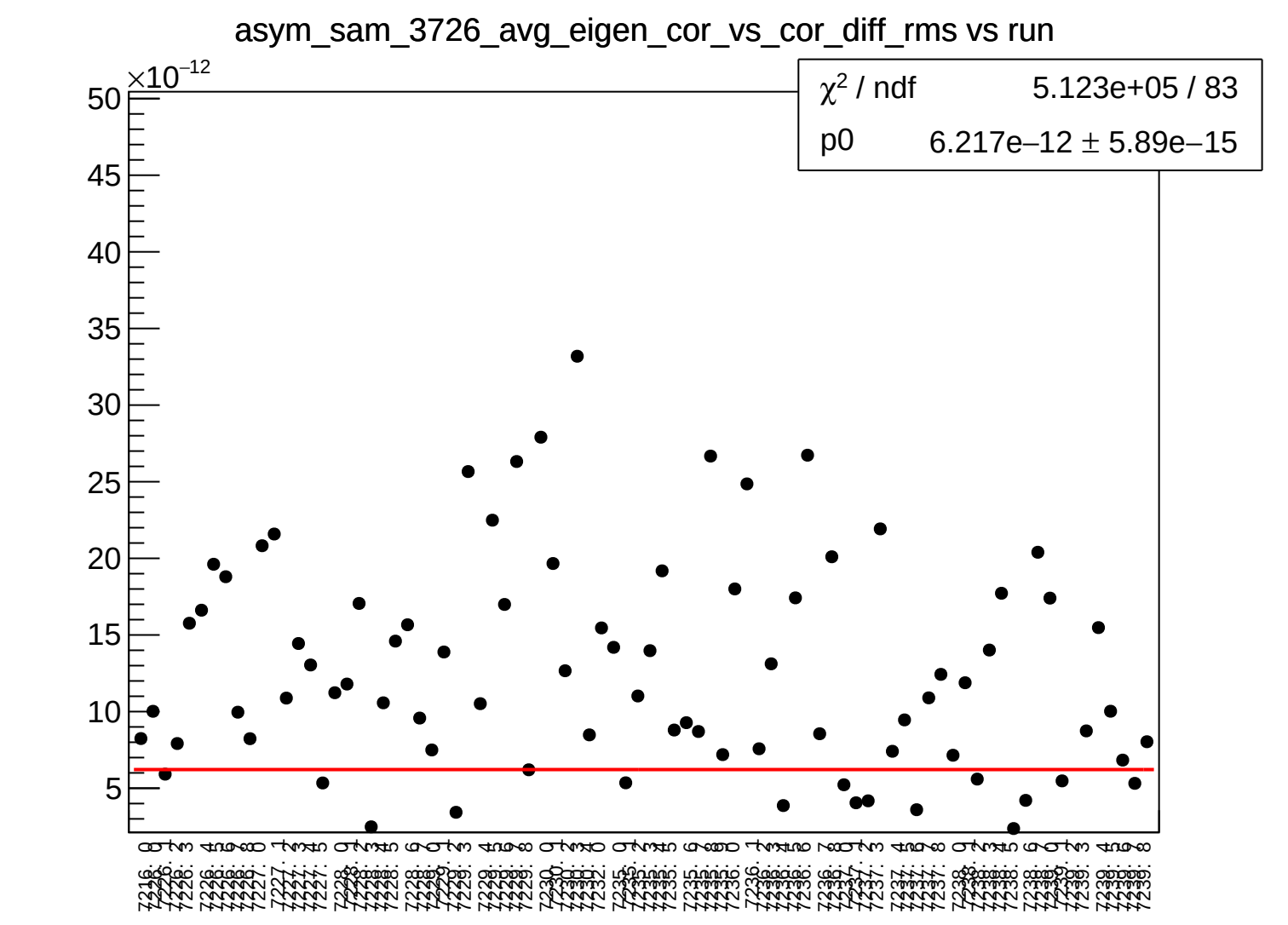

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.52 / 83
p0 −0.04581 ± 0.04102
pull
Entries 84
Mean 192.2
Std Dev 0

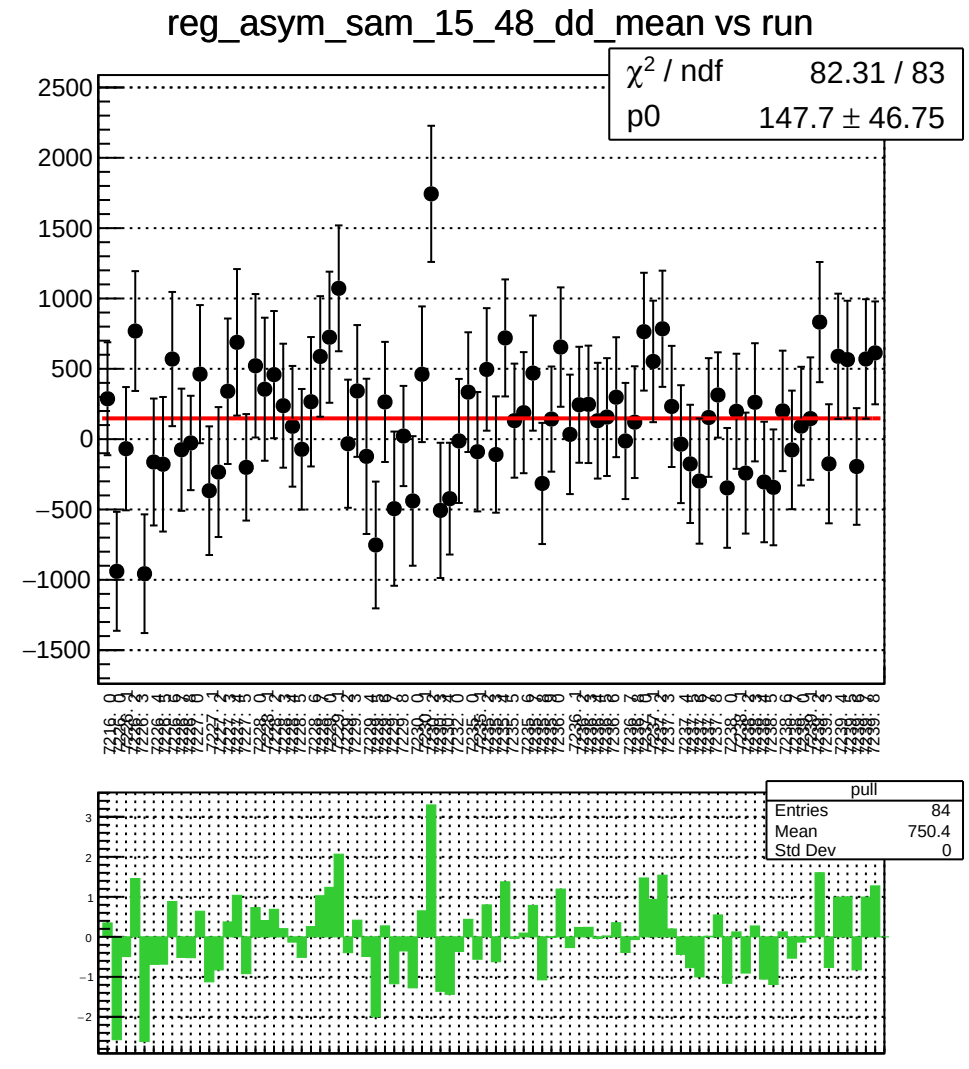

pull1D
Entries 84
Mean −0.0193
Std Dev 1.032

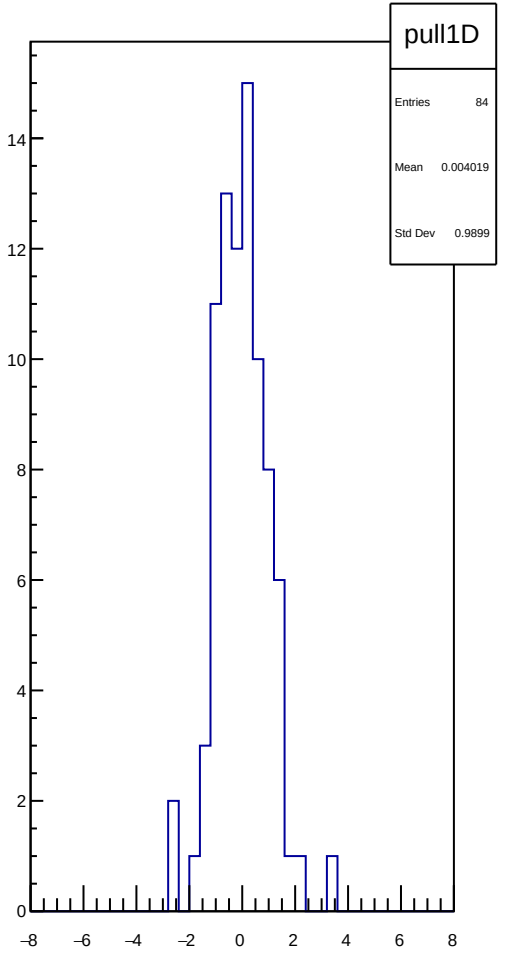

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.126e+04 / 83
p0 36.52 ± 0.029
65
60
55
50
45
40
35
30


asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.83 / 83
p0 3.466e−15 ± 8.329e−15
pull
Entries 84
Mean −140.4
Std Dev 0

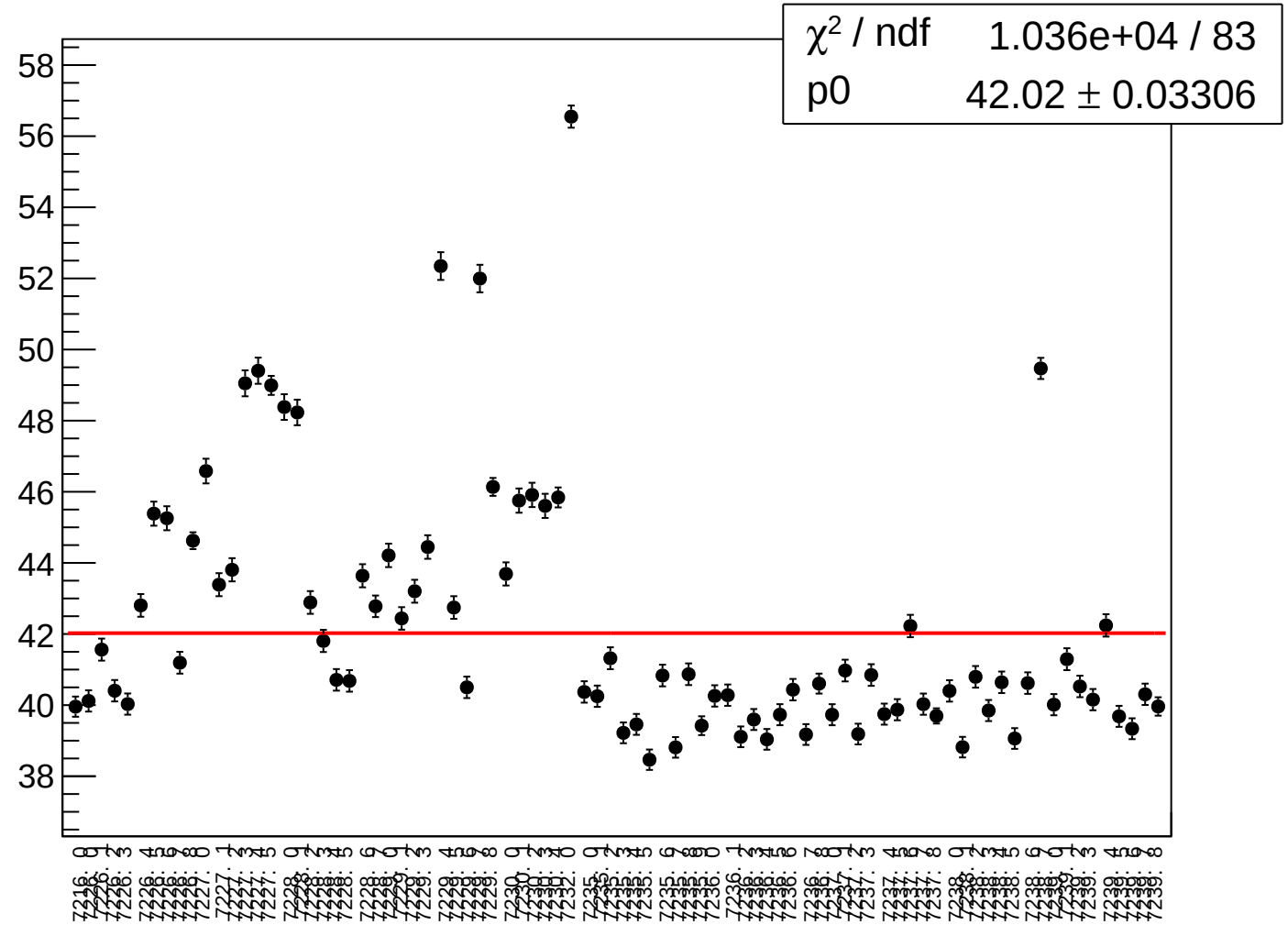

pull1D
Entries 84
Mean −0.01913
Std Dev 1.09

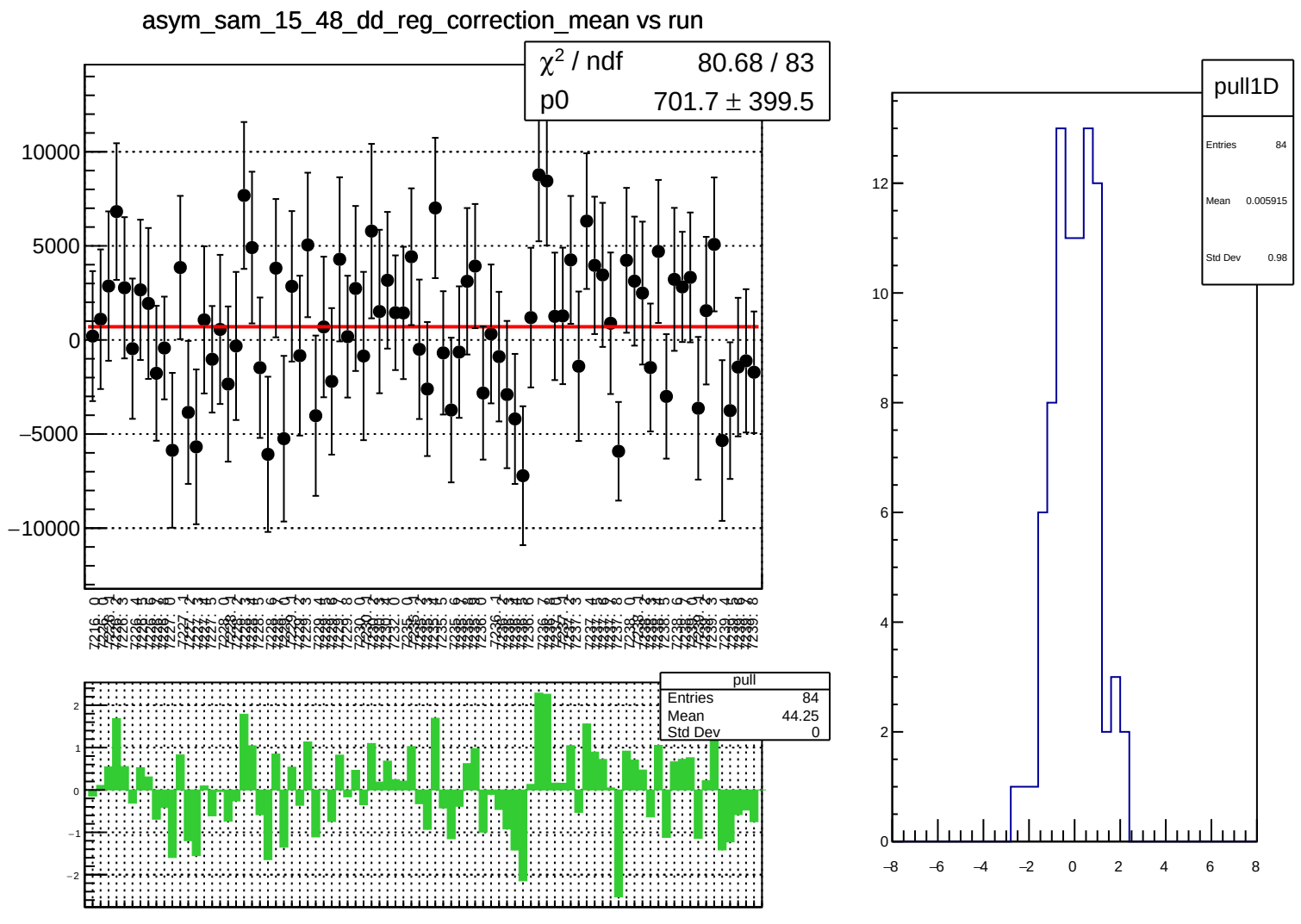

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
50
45
40
35
30
25
20
15
10
5
χ² / ndf 5.123e+05 / 83
p0 6.217e−12 ± 5.89e−15

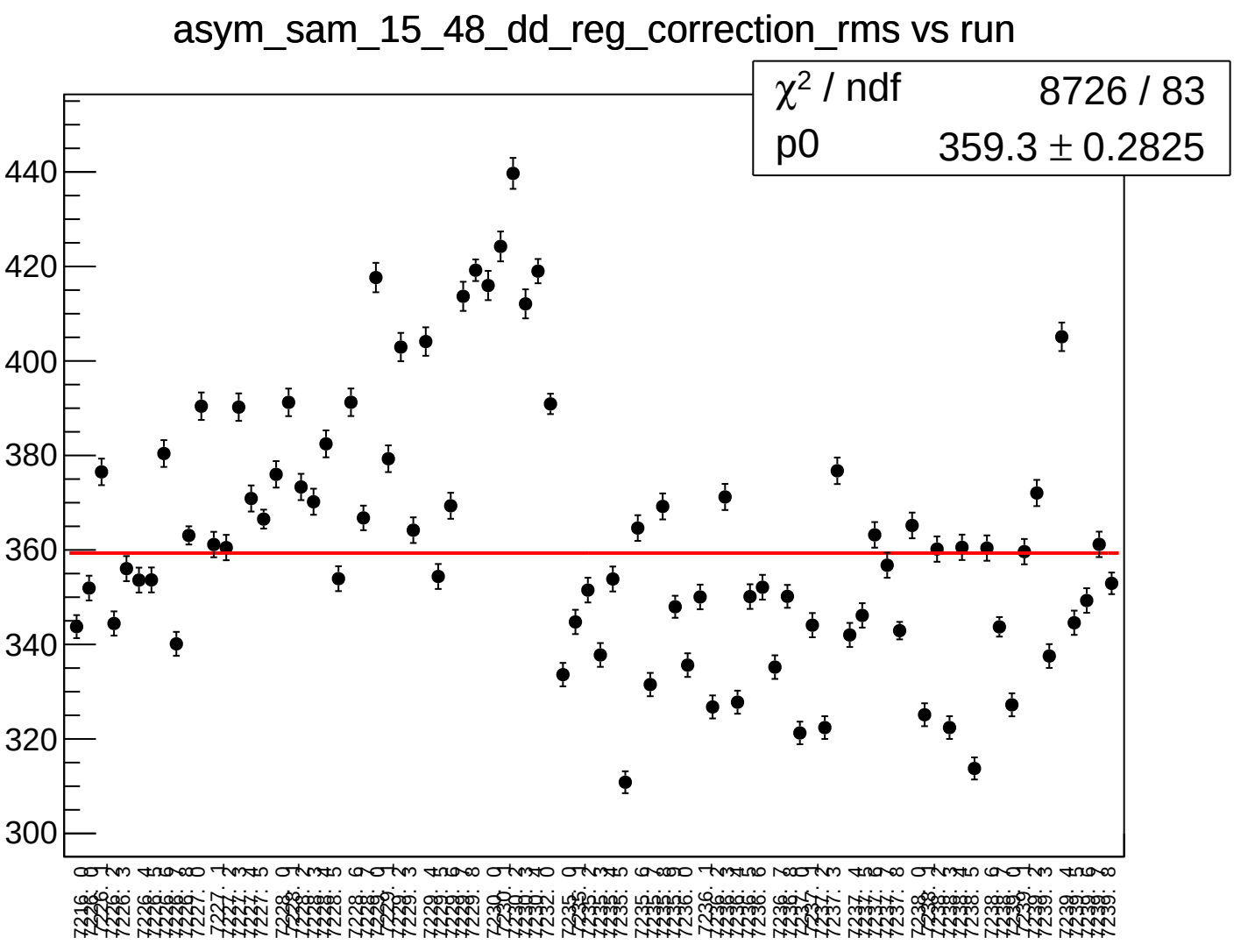

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 82.31 / 83
p0 147.7 ± 46.75
pull
Entries 84
Mean 750.4
Std Dev 0

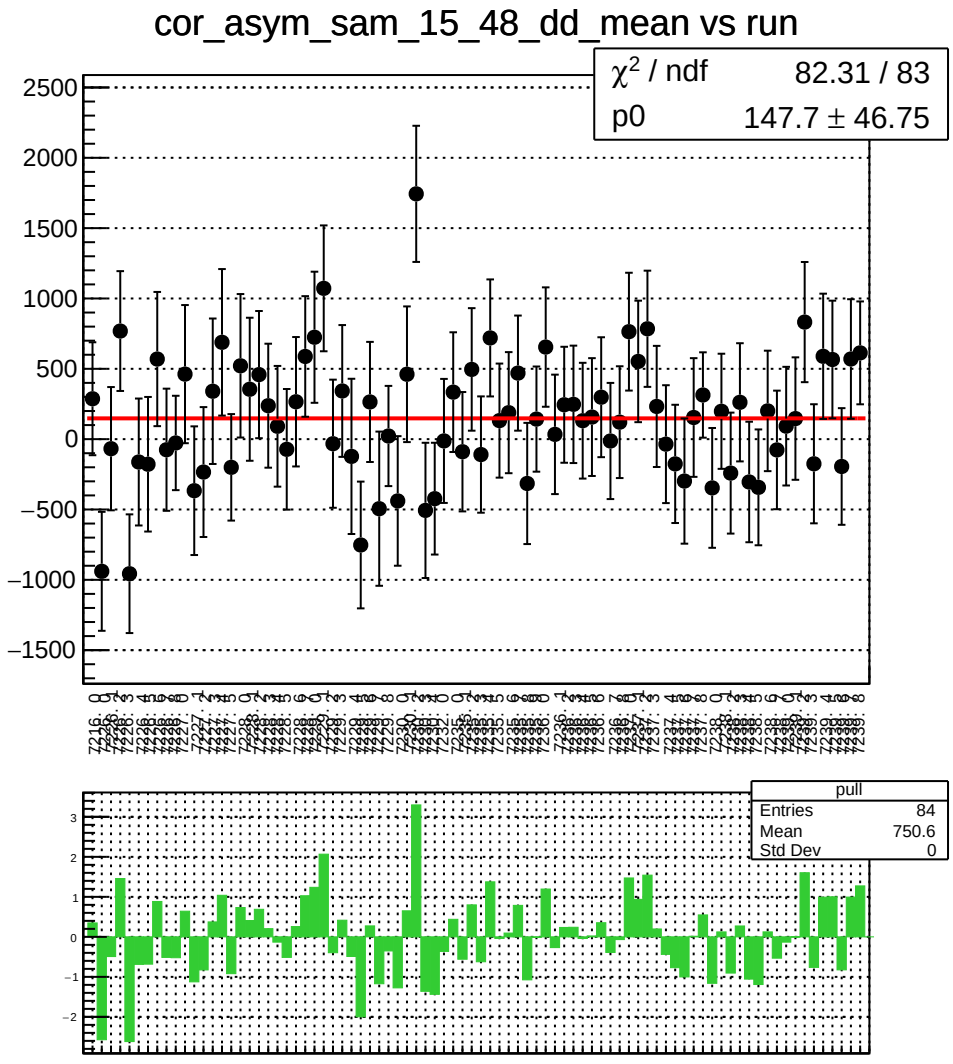

pull1D
Entries 84
Mean 0.004019
Std Dev 0.9899

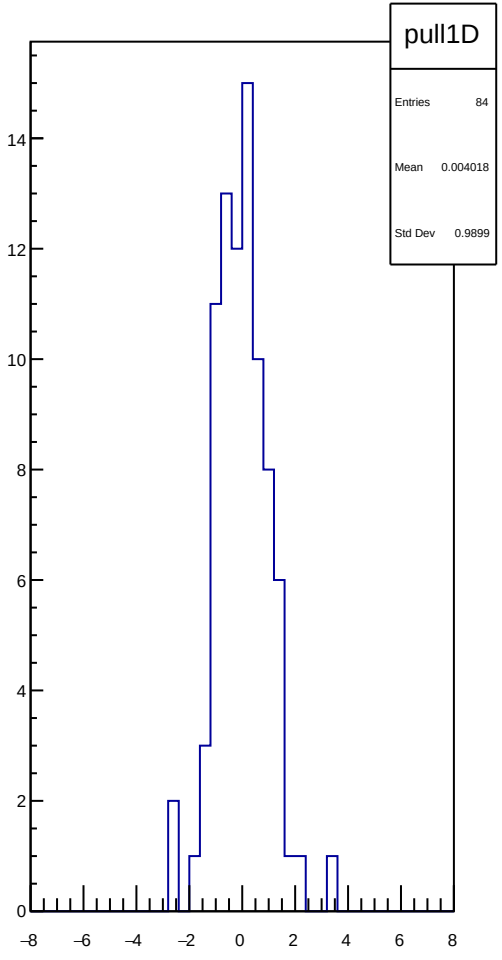
reg_asym_sam_15_48_dd_rms vs run

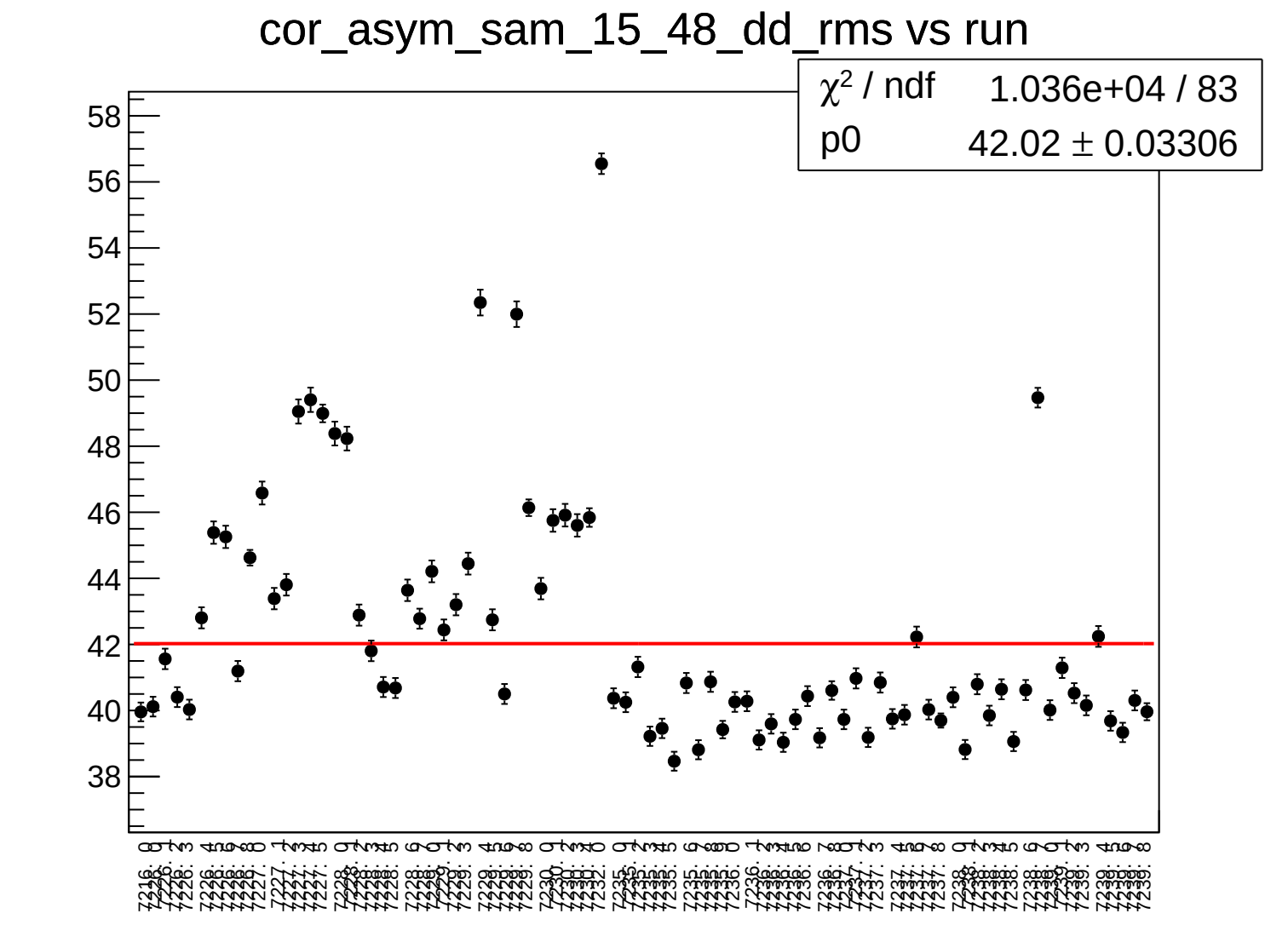


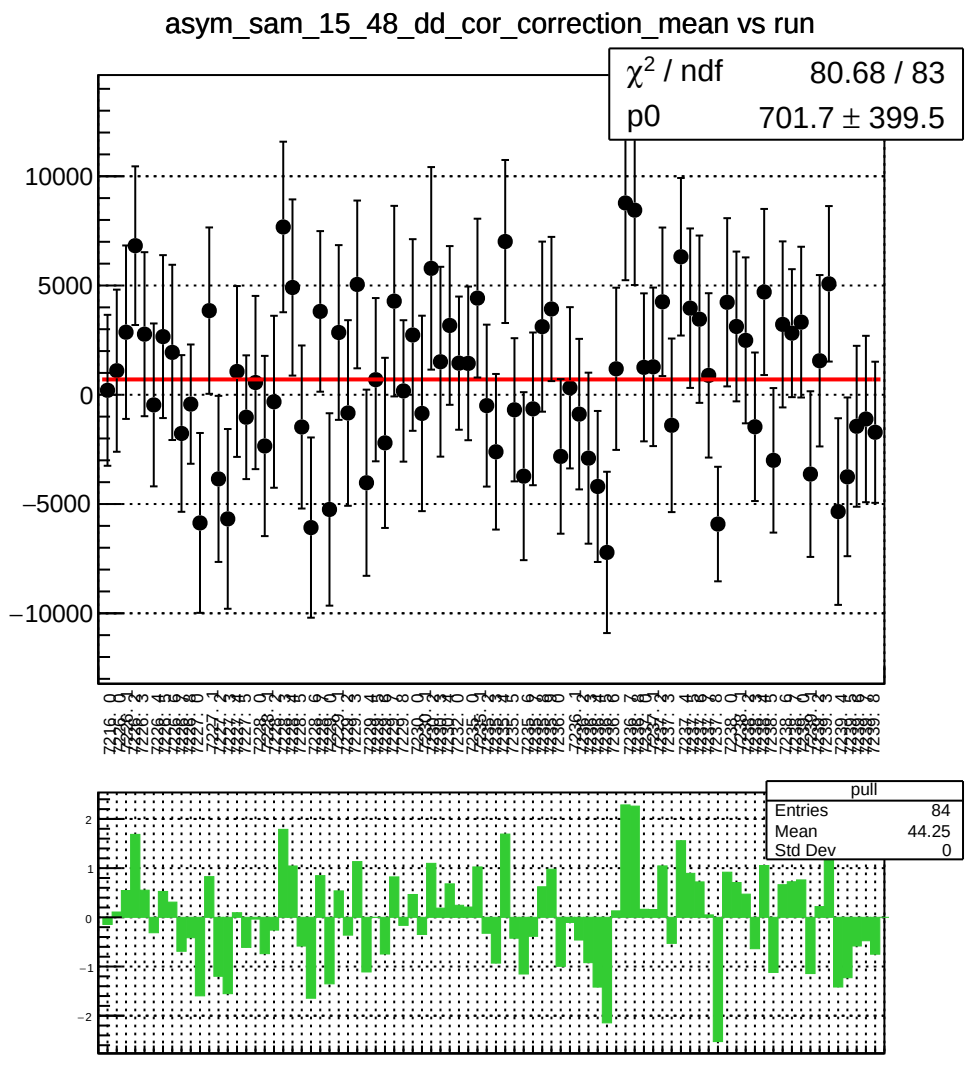

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 80.68 / 83
p0 701.7 ± 399.5
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 44.25
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.005915
Std Dev 0.98
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

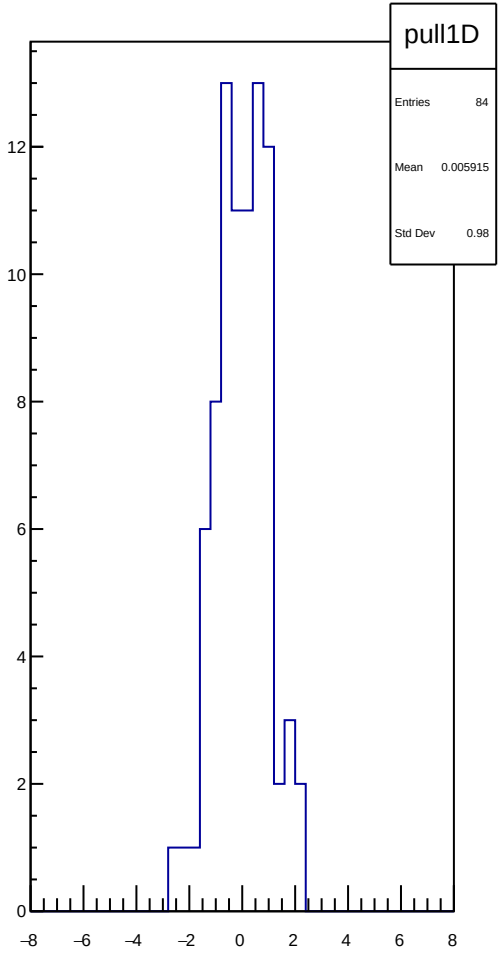

asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 8726 / 83
p0 359.3 ± 0.2825
440
420
400
380
360
340
320
300

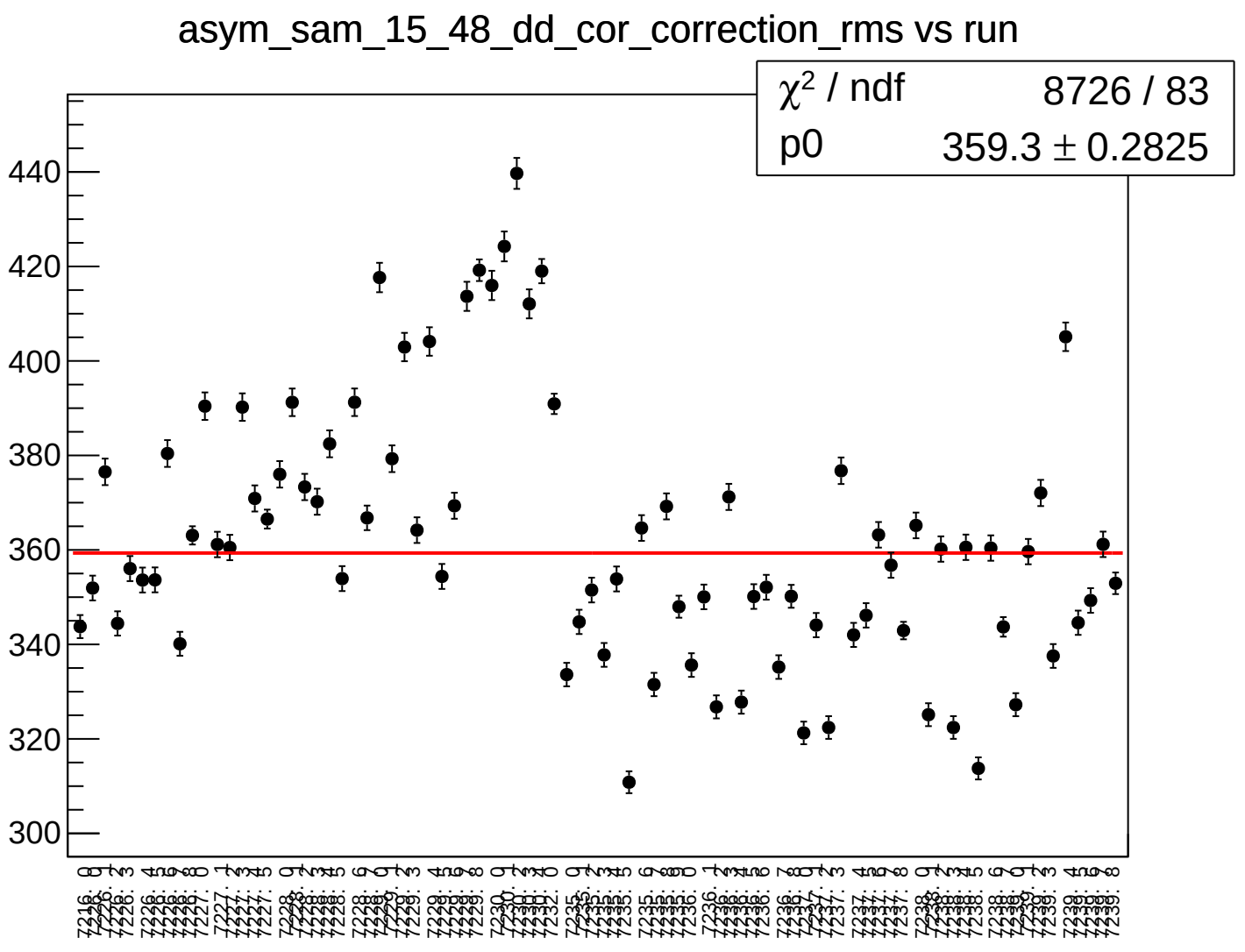

cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 82.31 / 83
p0 147.7 ± 46.75
pull
Entries 84
Mean 750.6
Std Dev 0

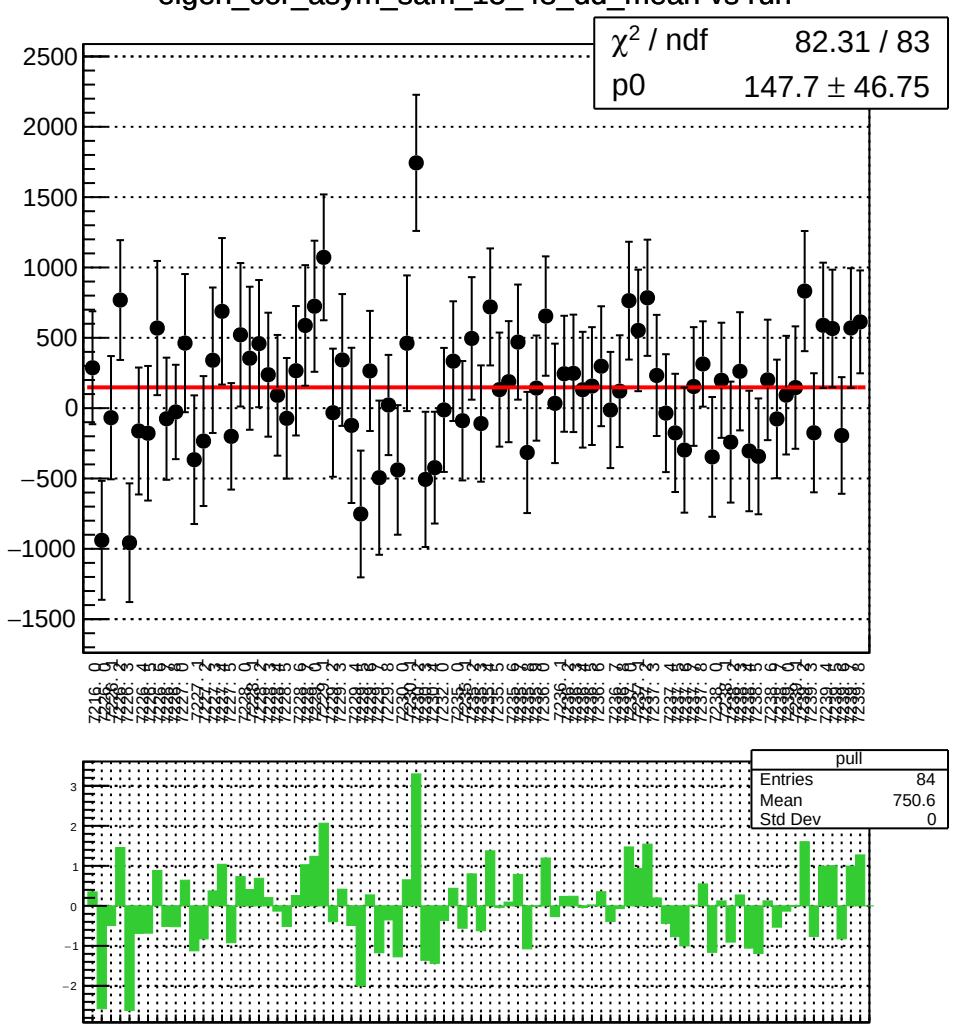

pull1D
Entries 84
Mean 0.004018
Std Dev 0.9899

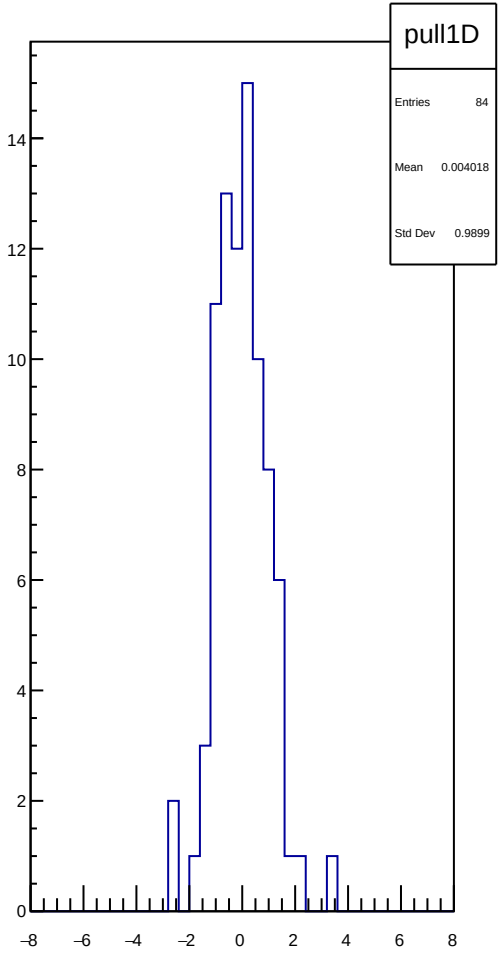

cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.036e+04 / 83
p0 42.02 ± 0.03306
58
56
54
52
50
48
46
44
42
40
38

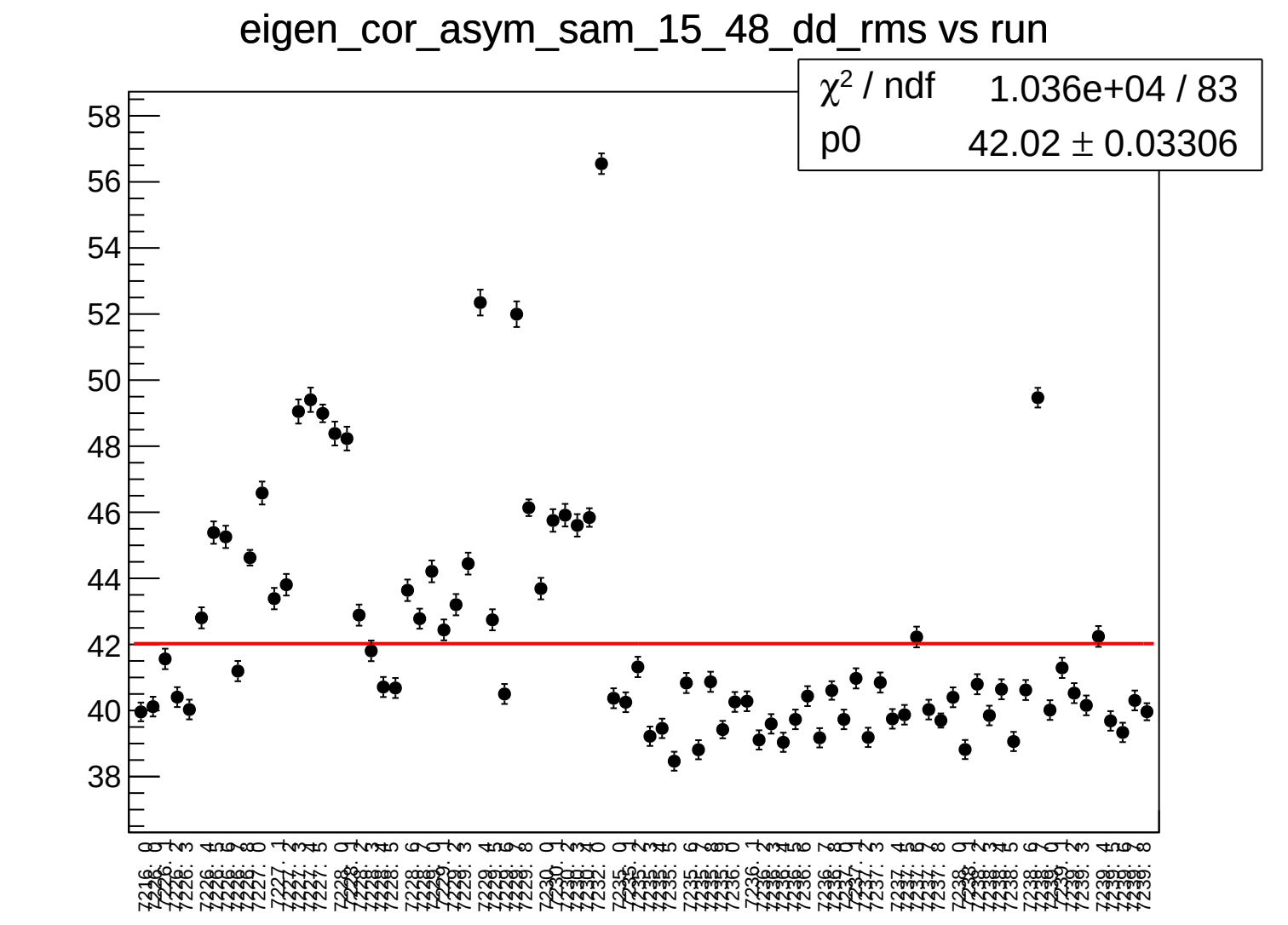

asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 80.68 / 83
p0 701.7 ± 399.5
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 44.25
Std Dev 0
2
1
0
−1
−2

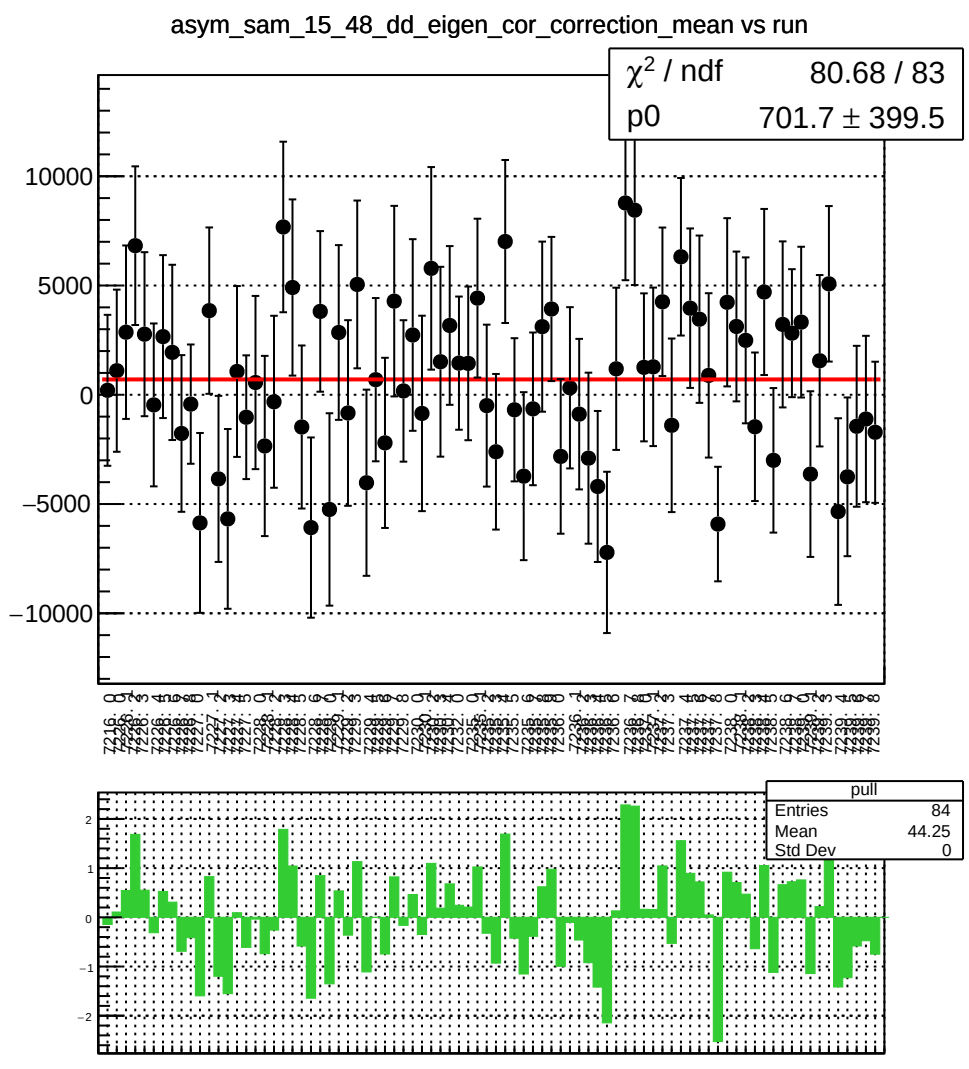

pull1D
Entries 84
Mean 0.005915
Std Dev 0.98
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

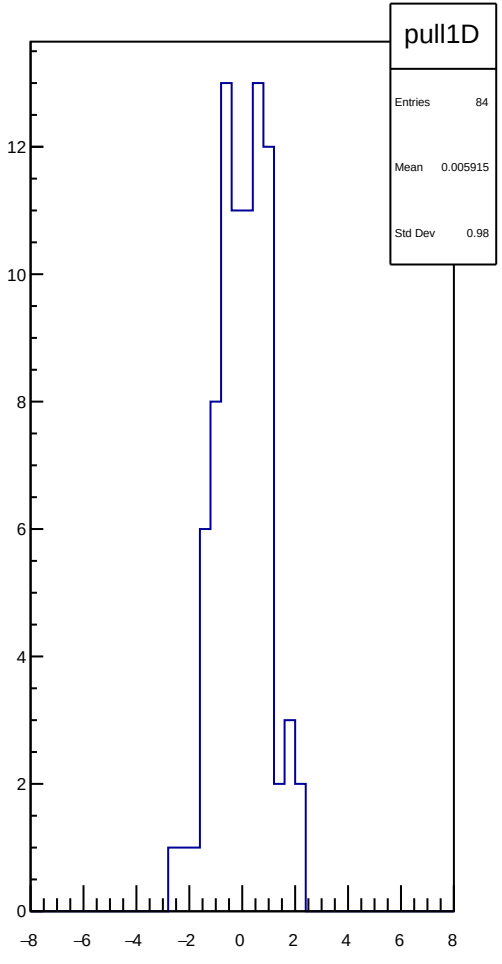

asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 8726 / 83
p0 359.3 ± 0.2825
440
420
400
380
360
340
320
300

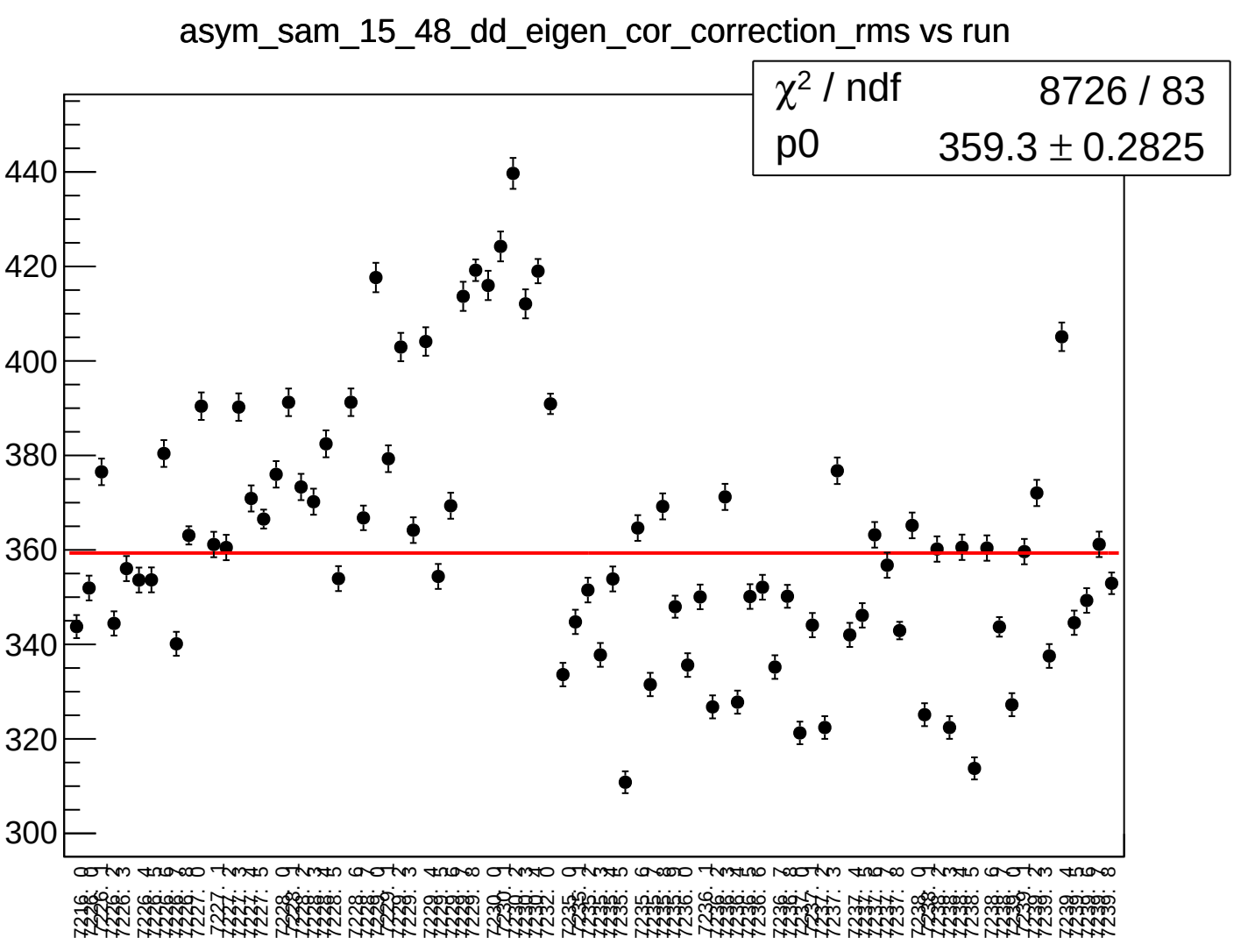

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 82.31 / 83
p0 147.7 ± 46.75
pull
Entries 84
Mean 750.6
Std Dev 0

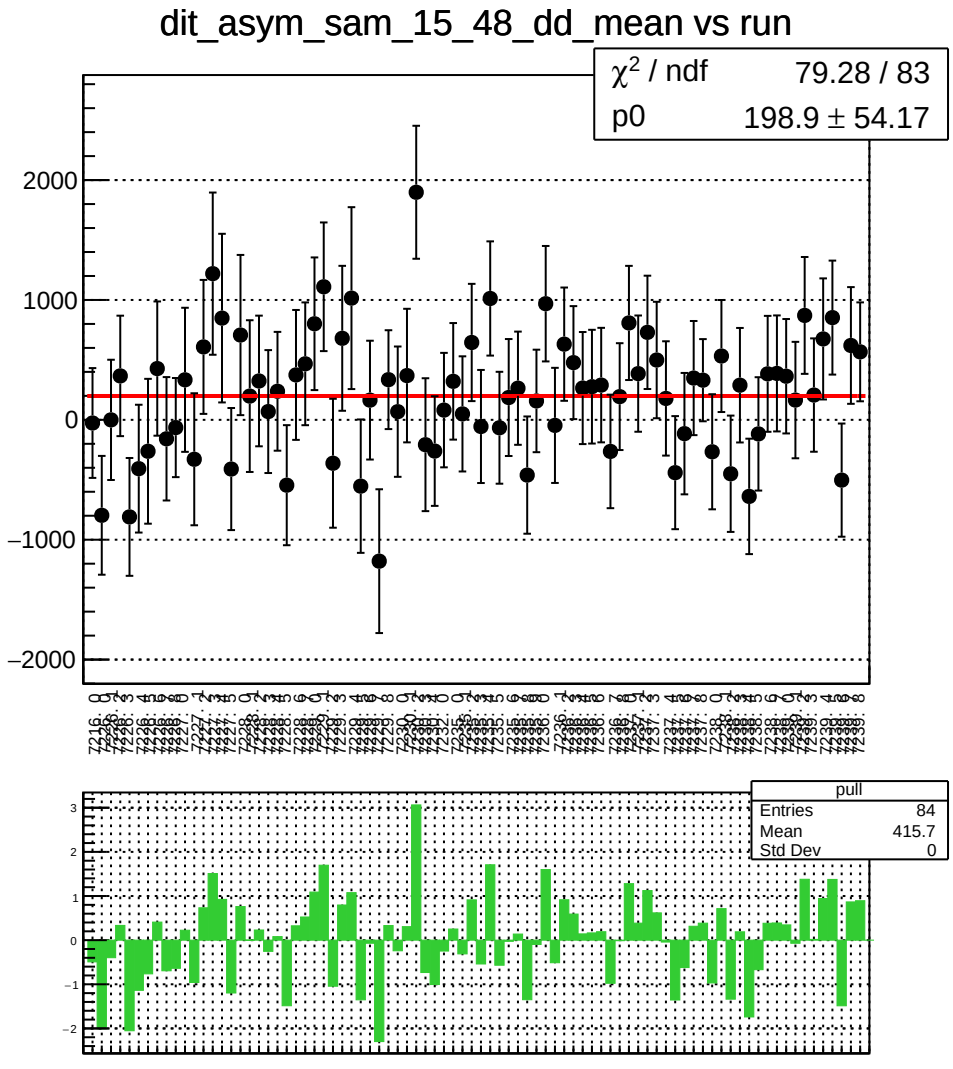

pull1D
Entries 84
Mean 0.004018
Std Dev 0.9899

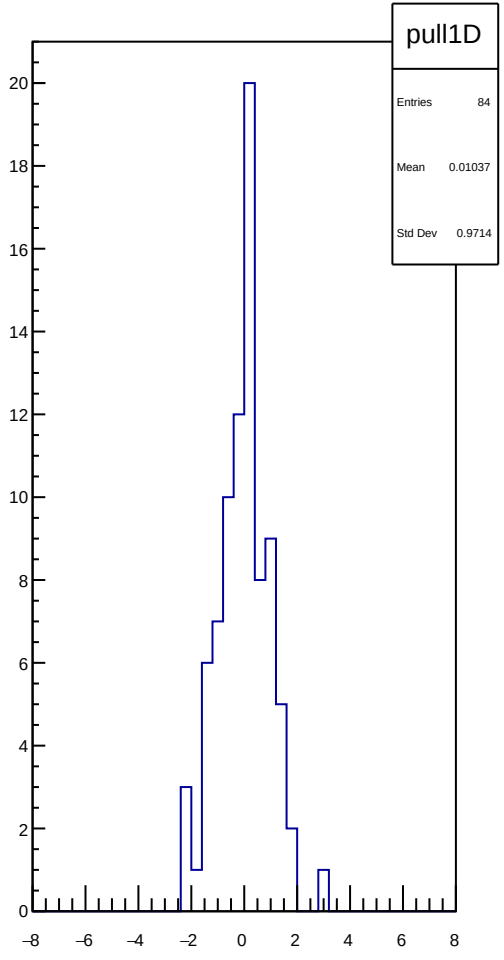

eigen_cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.036e+04 / 83
p0 42.02 ± 0.03306
58
56
54
52
50
48
46
44
42
40
38

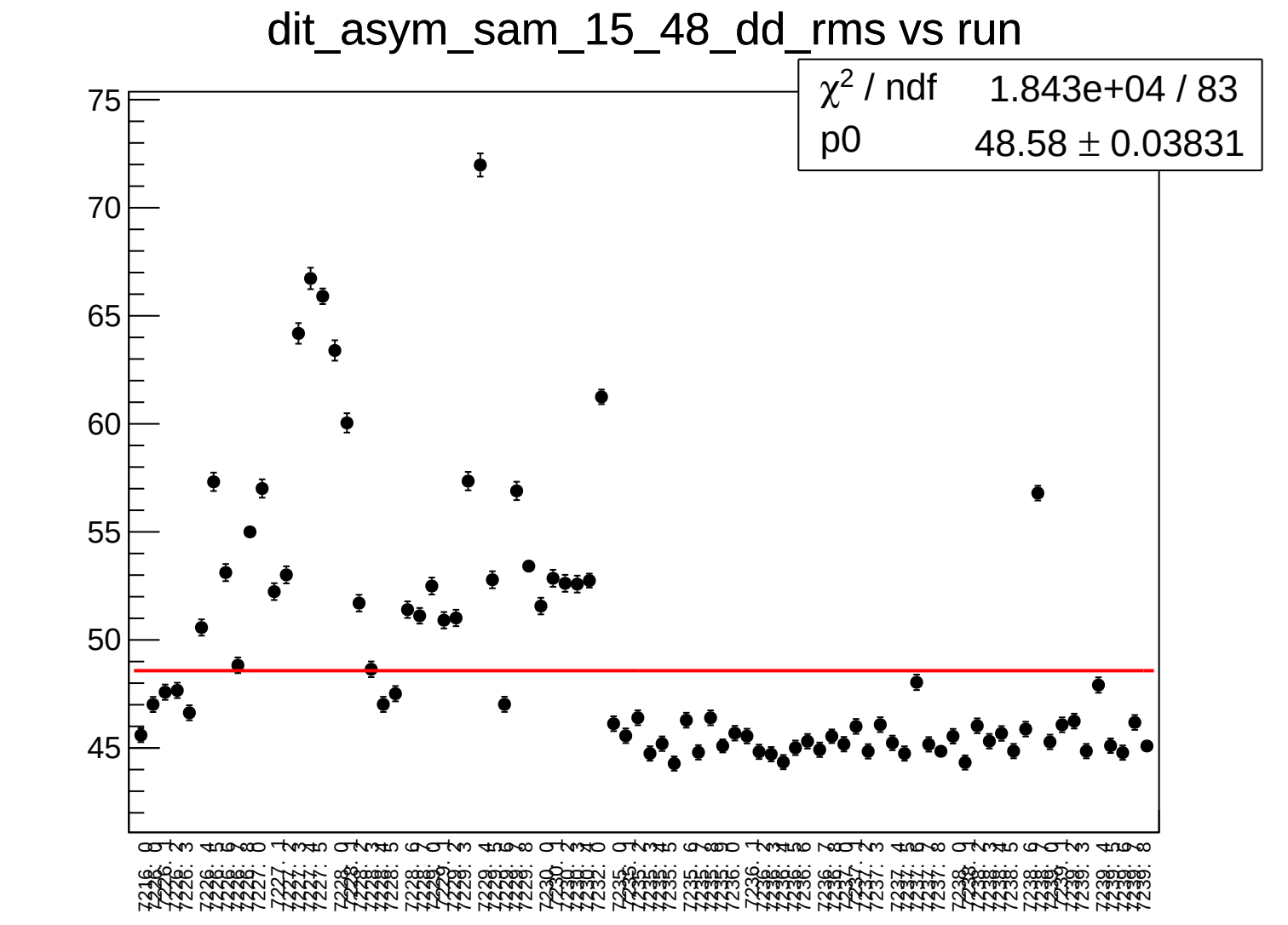

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 80.68 / 83
p0 701.7 ± 399.5
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 44.25
Std Dev 0
2
1
0
−1
−2

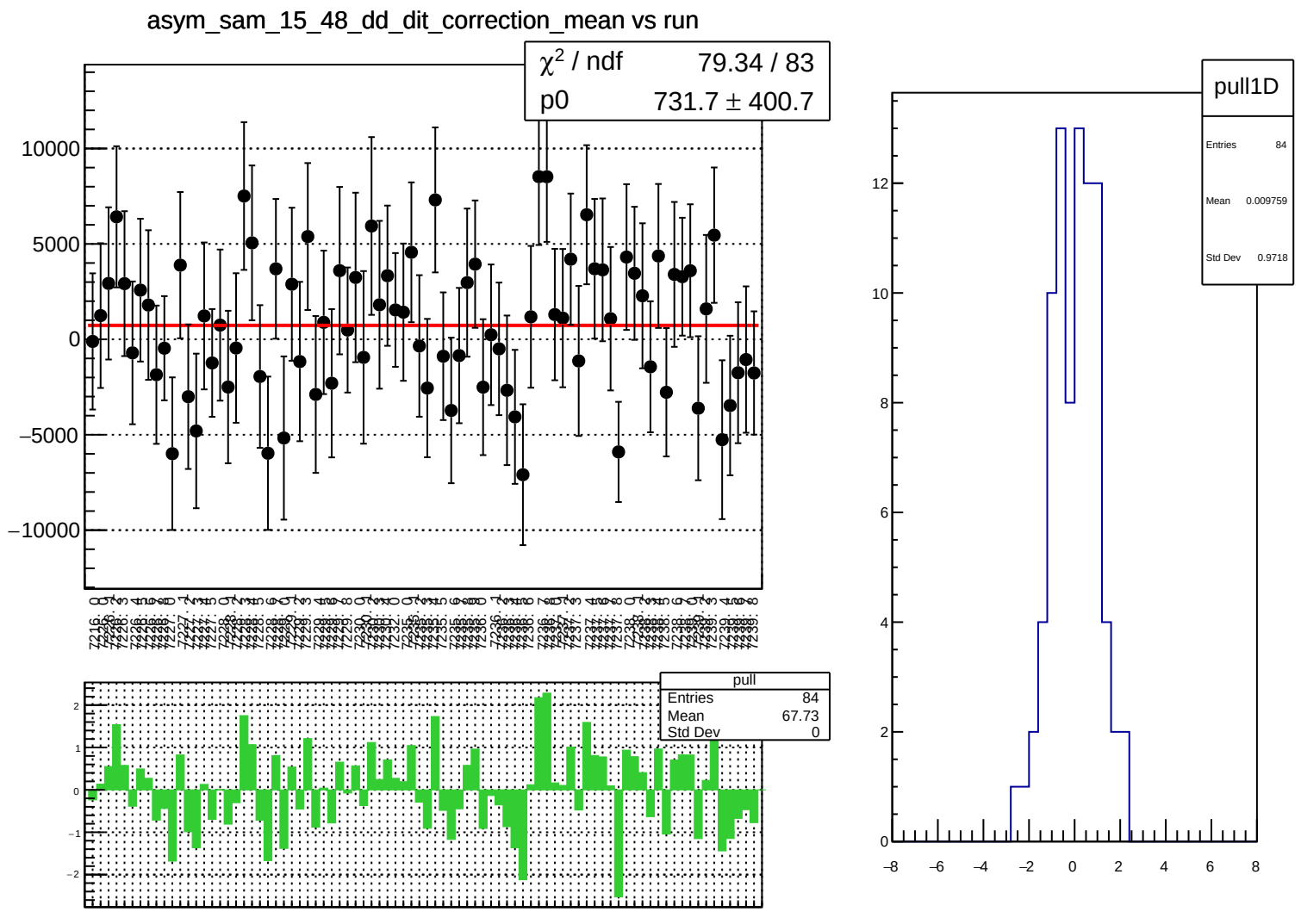

pull1D
Entries 84
Mean 0.005915
Std Dev 0.98
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

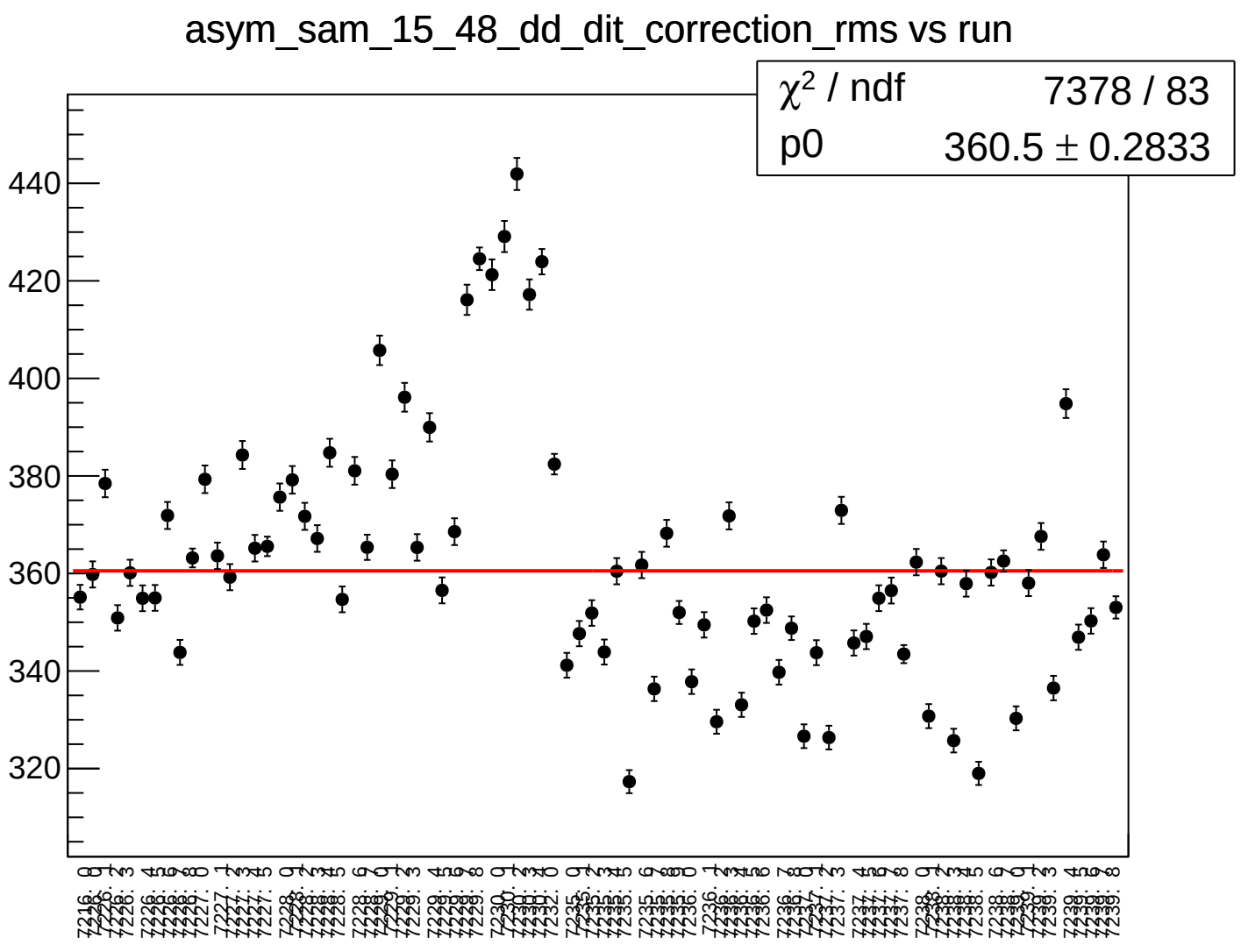

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 8726 / 83
p0 359.3 ± 0.2825
440
420
400
380
360
340
320
300

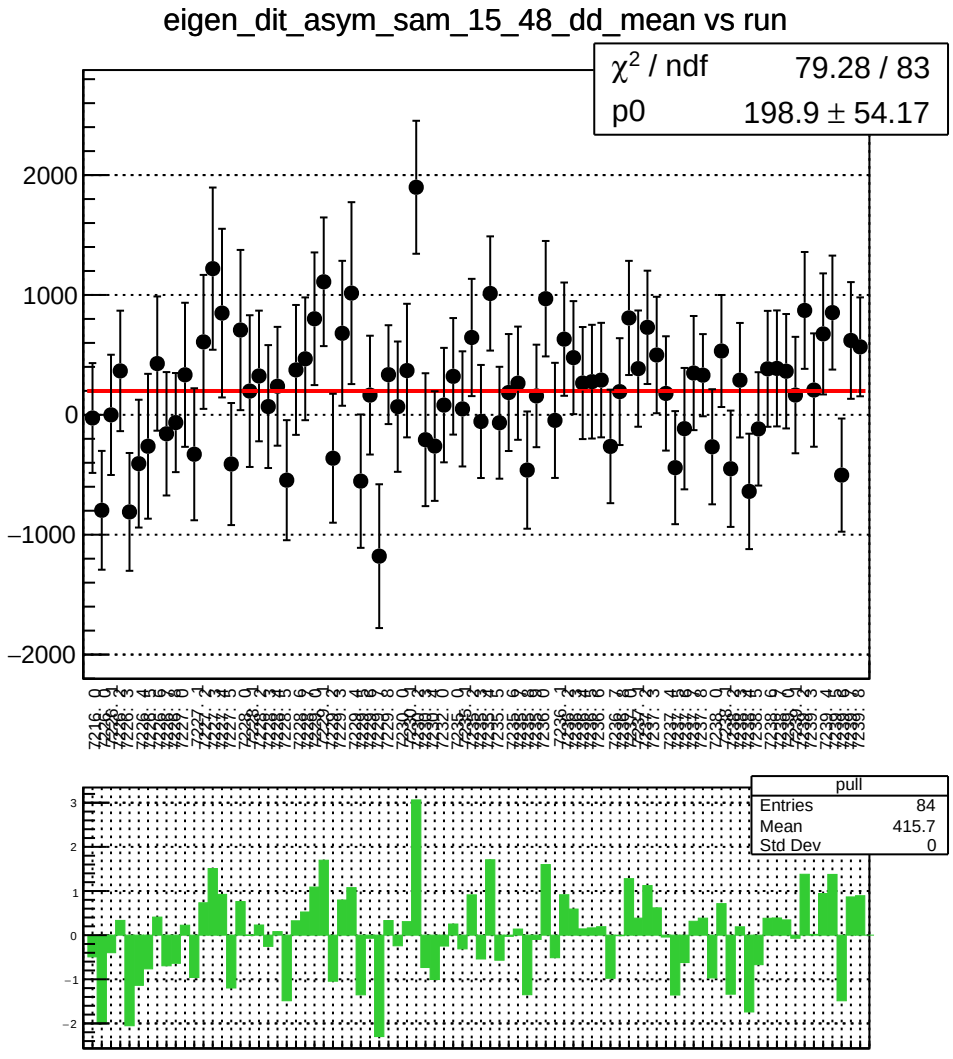

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 79.28 / 83
p0 198.9 ± 54.17
2000
1000
0
−1000
−2000
pull
Entries 84
Mean 415.7
Std Dev 0
3
2
1
0
−1
−2

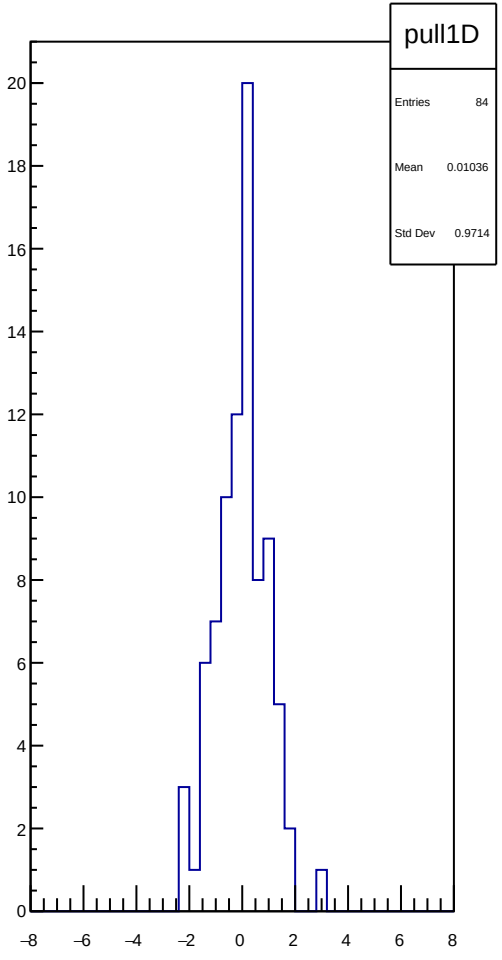

pull1D
Entries 84
Mean 0.01037
Std Dev 0.9714
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

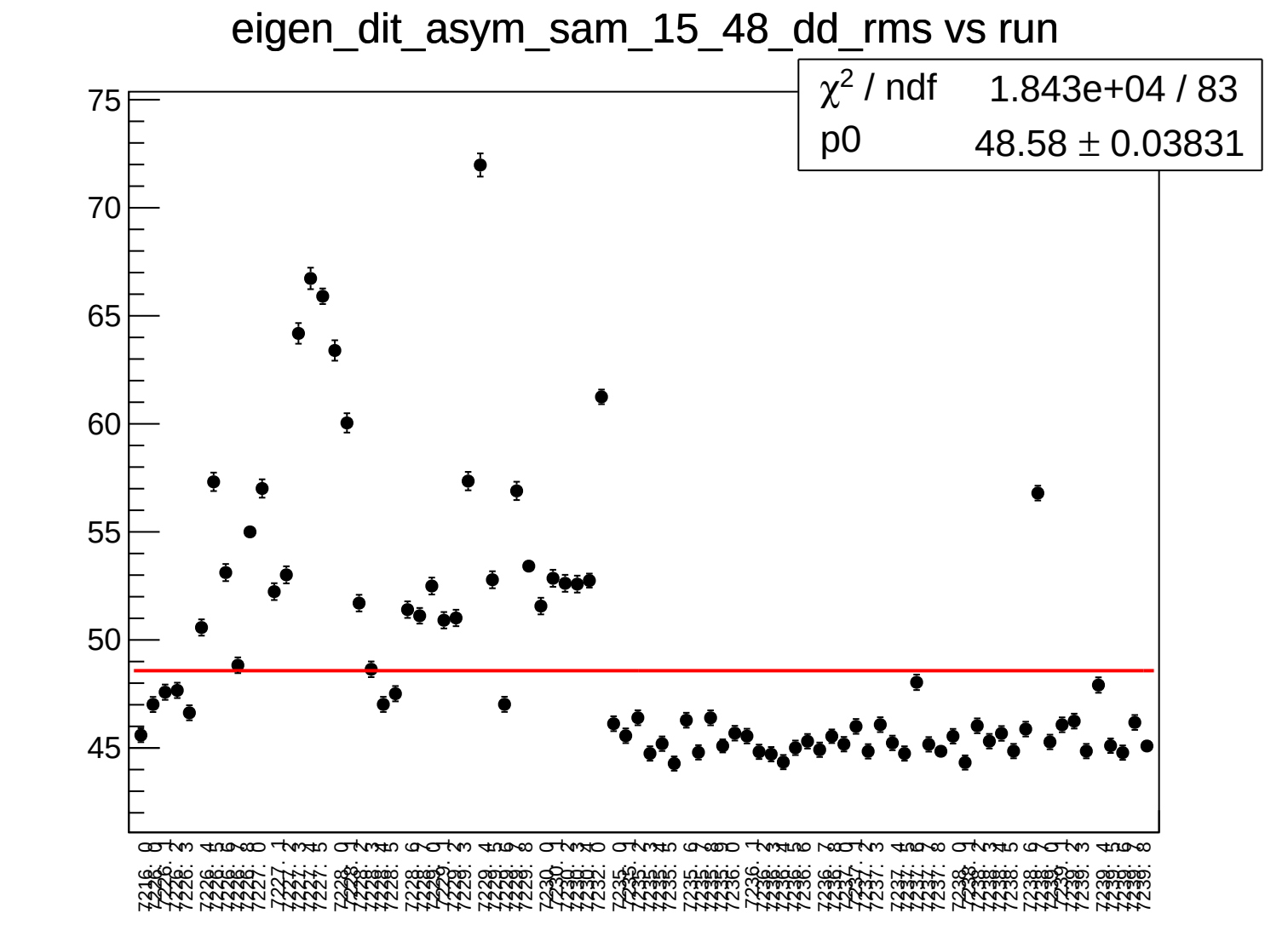

dit_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 1.843e+04 / 83
p0 48.58 ± 0.03831
75
70
65
60
55
50
45

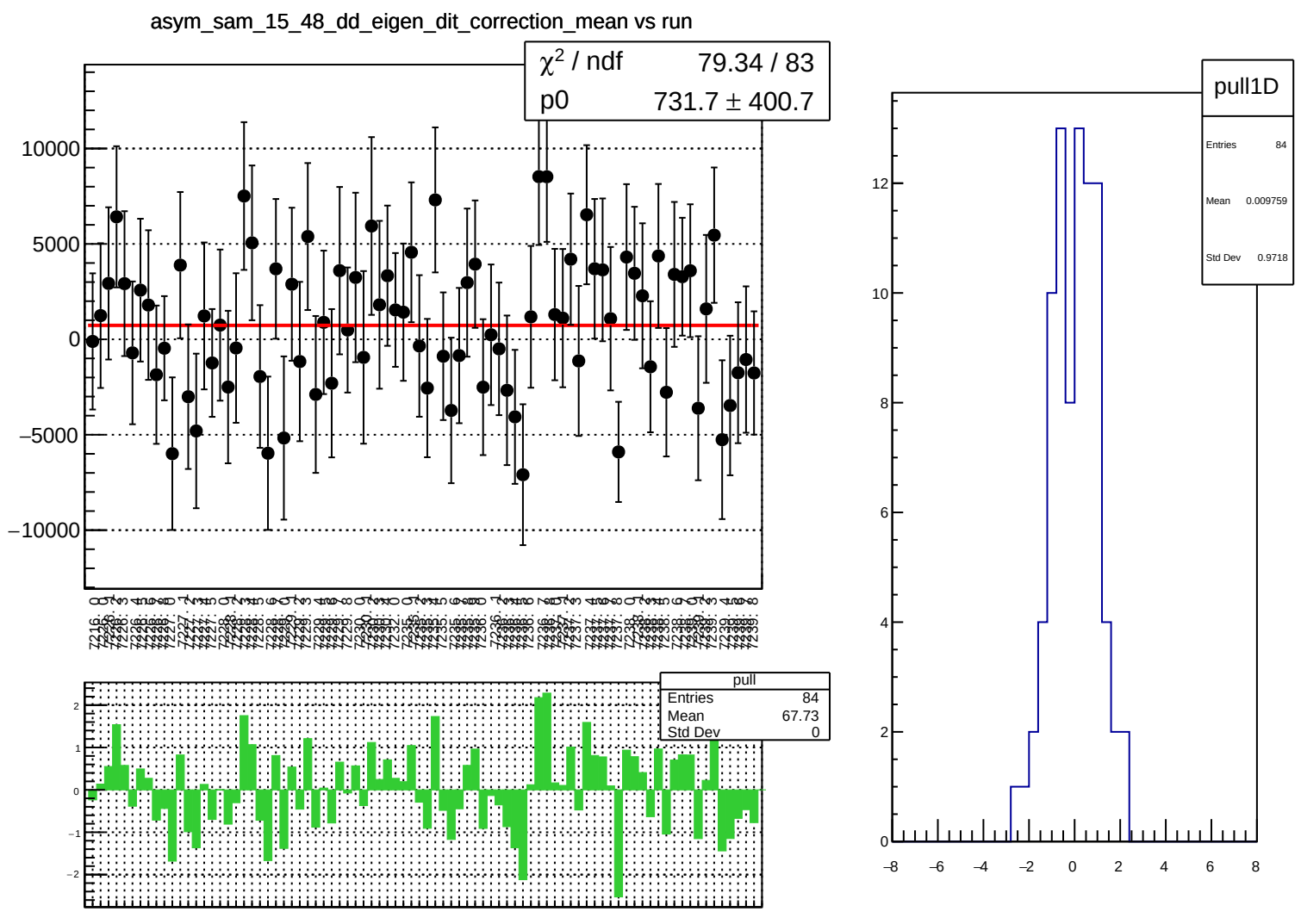

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 79.34 / 83
p0 731.7 ± 400.7
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 67.73
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.009759
Std Dev 0.9718
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

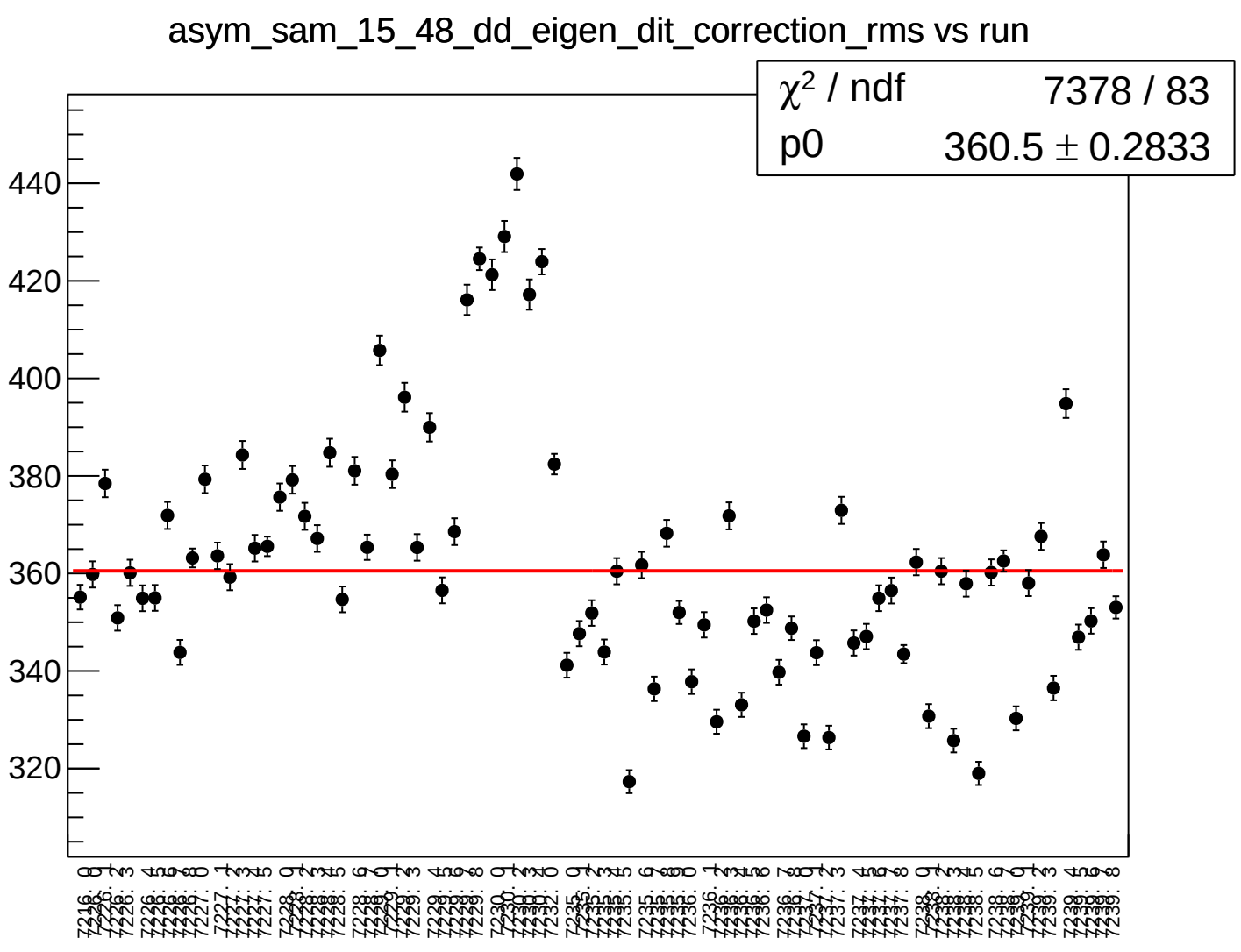

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 7378 / 83
p0 360.5 ± 0.2833
440
420
400
380
360
340
320

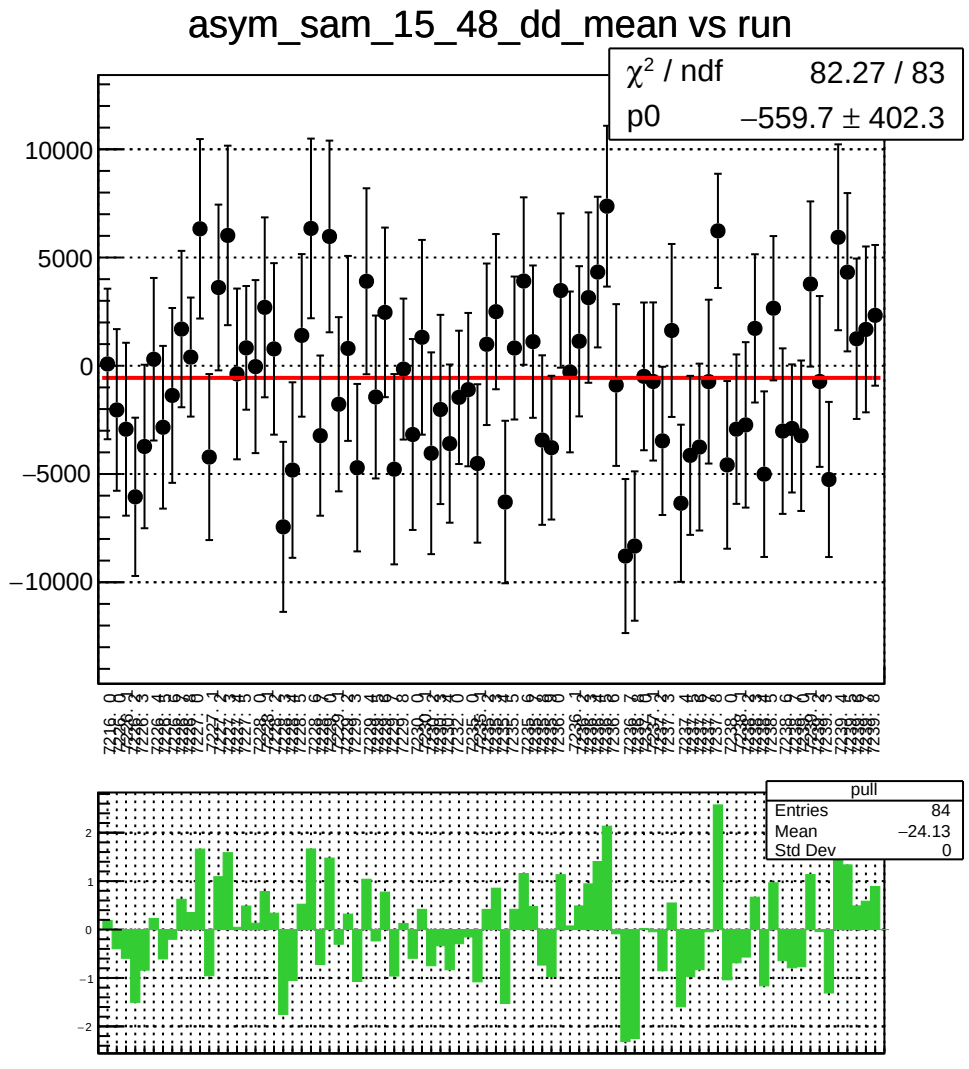

eigen_dit_asym_sam_15_48_dd_mean vs run
χ^2 / ndf 79.28 / 83
p0 198.9 ± 54.17
2000
1000
0
−1000
−2000
pull
Entries 84
Mean 415.7
Std Dev 0
3
2
1
0
−1
−2

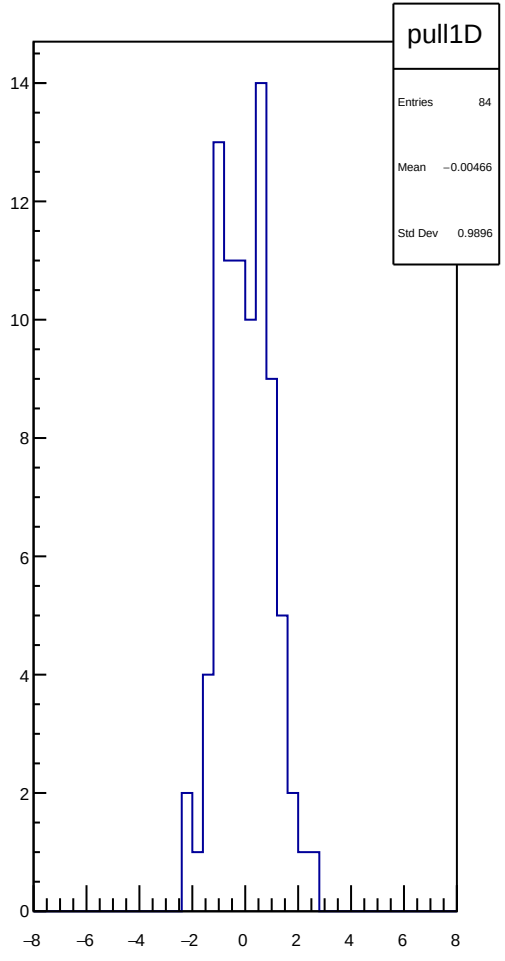

pull1D
Entries 84
Mean 0.01036
Std Dev 0.9714
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

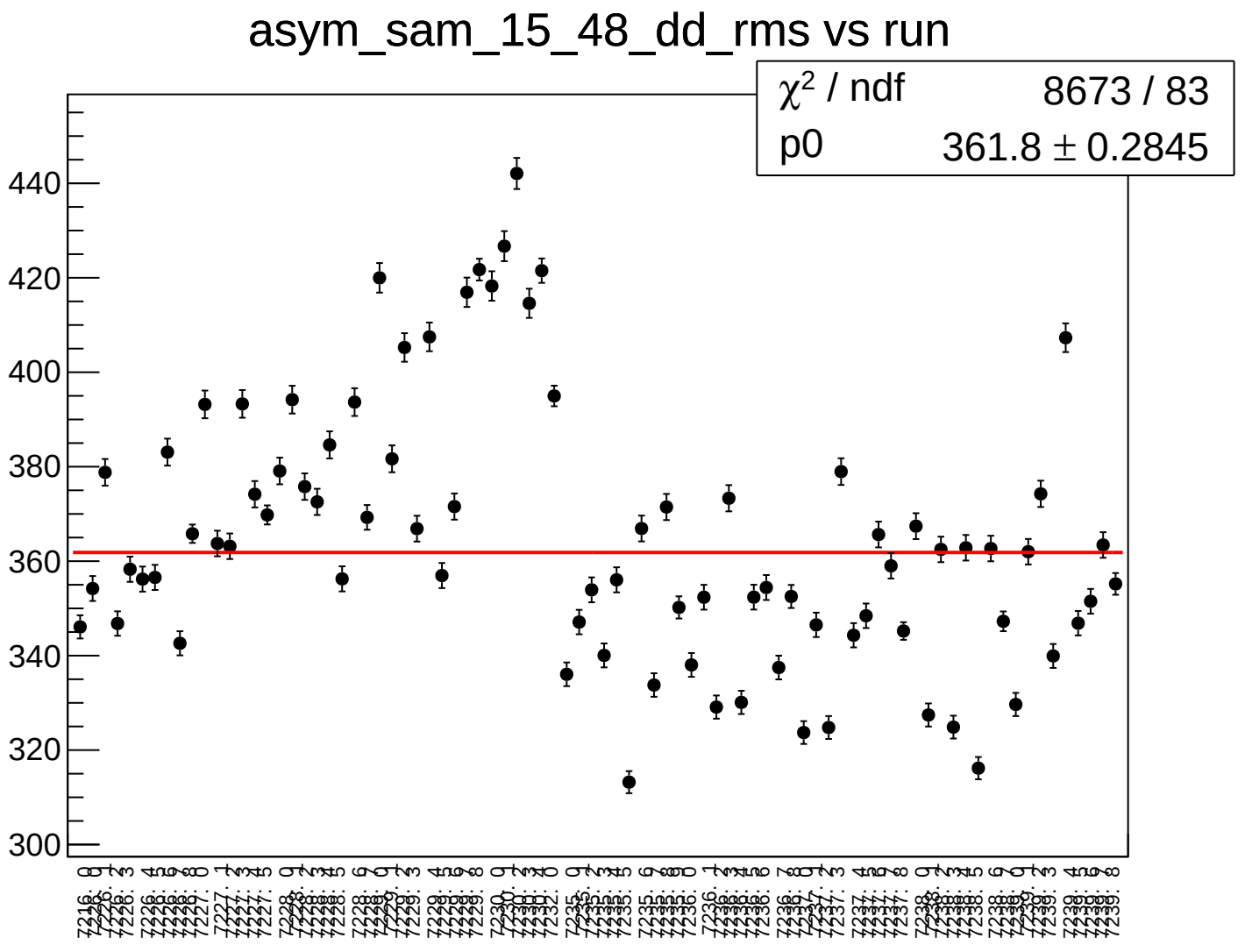

eigen_dit_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 1.843e+04 / 83
p0 48.58 ± 0.03831
75
70
65
60
55
50
45

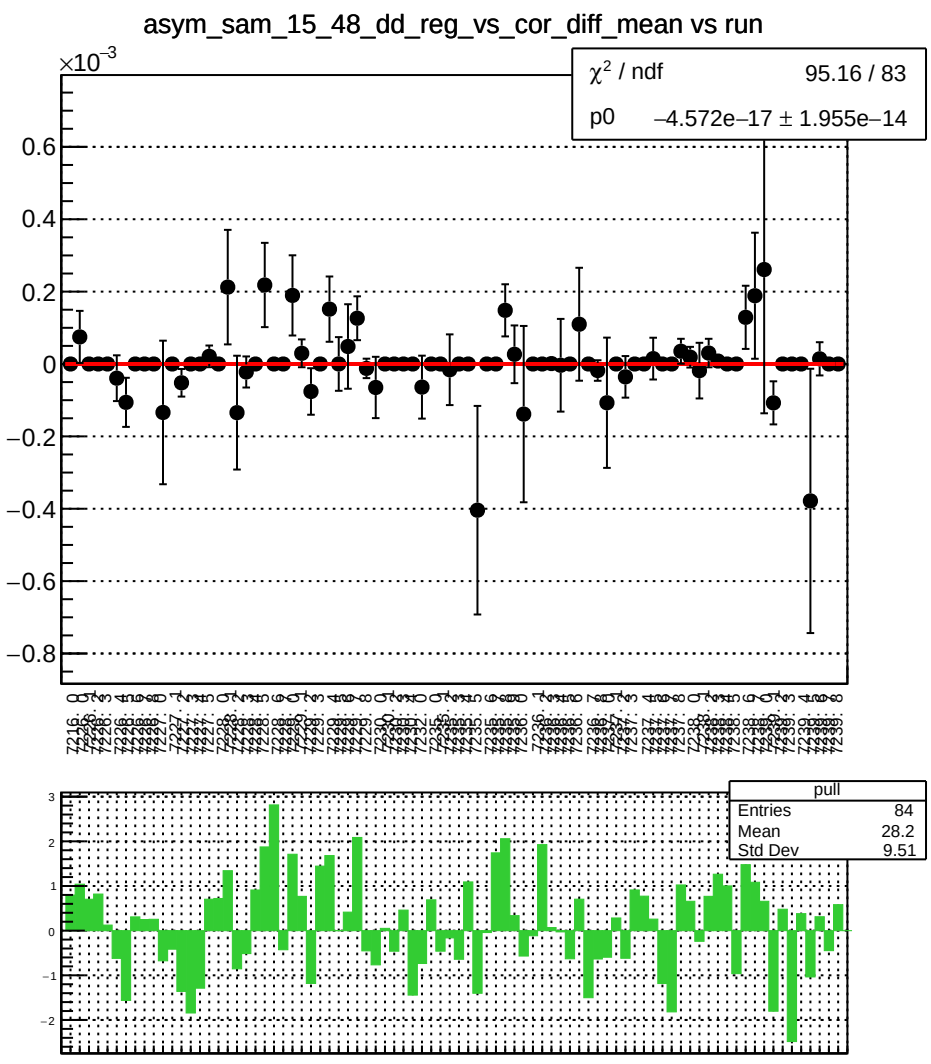

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 79.34 / 83
p0 731.7 ± 400.7
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 67.73
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.009759
Std Dev 0.9718
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

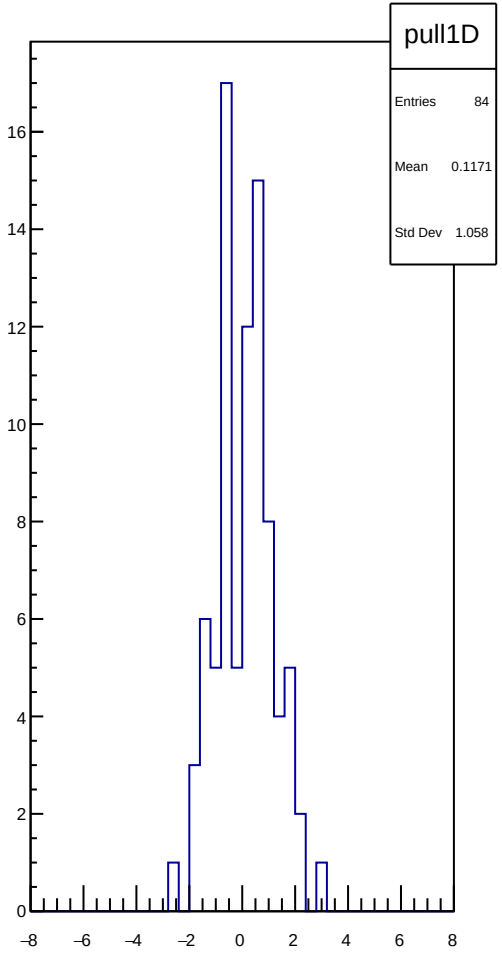

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 7378 / 83
p0 360.5 ± 0.2833
440
420
400
380
360
340
320

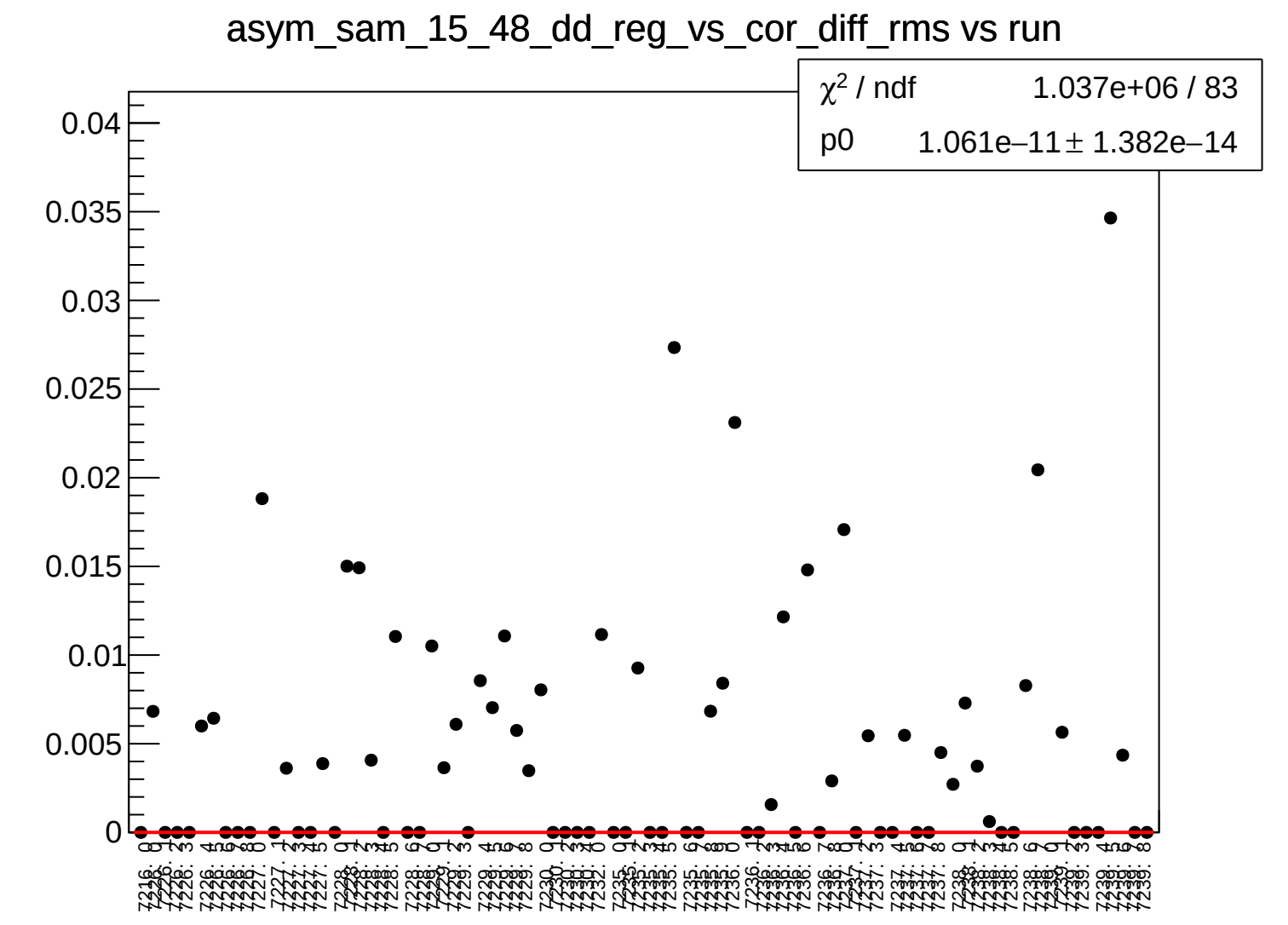

asym_sam_15_48_dd_mean vs run
χ² / ndf 82.27 / 83
p0 −559.7 ± 402.3
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −24.13
Std Dev 0
2
1
0
−1
−2

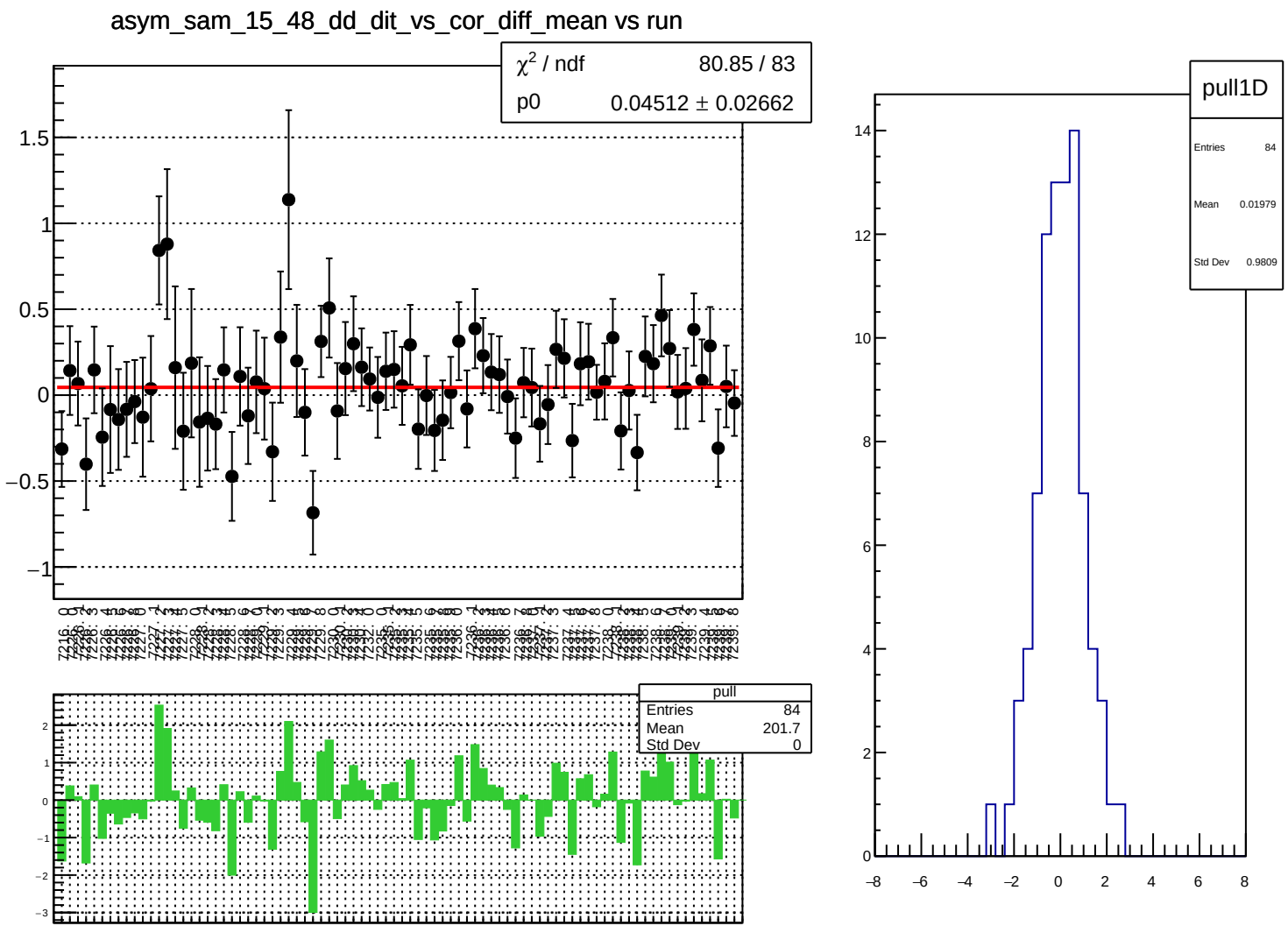

pull1D
Entries 84
Mean −0.00466
Std Dev 0.9896
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

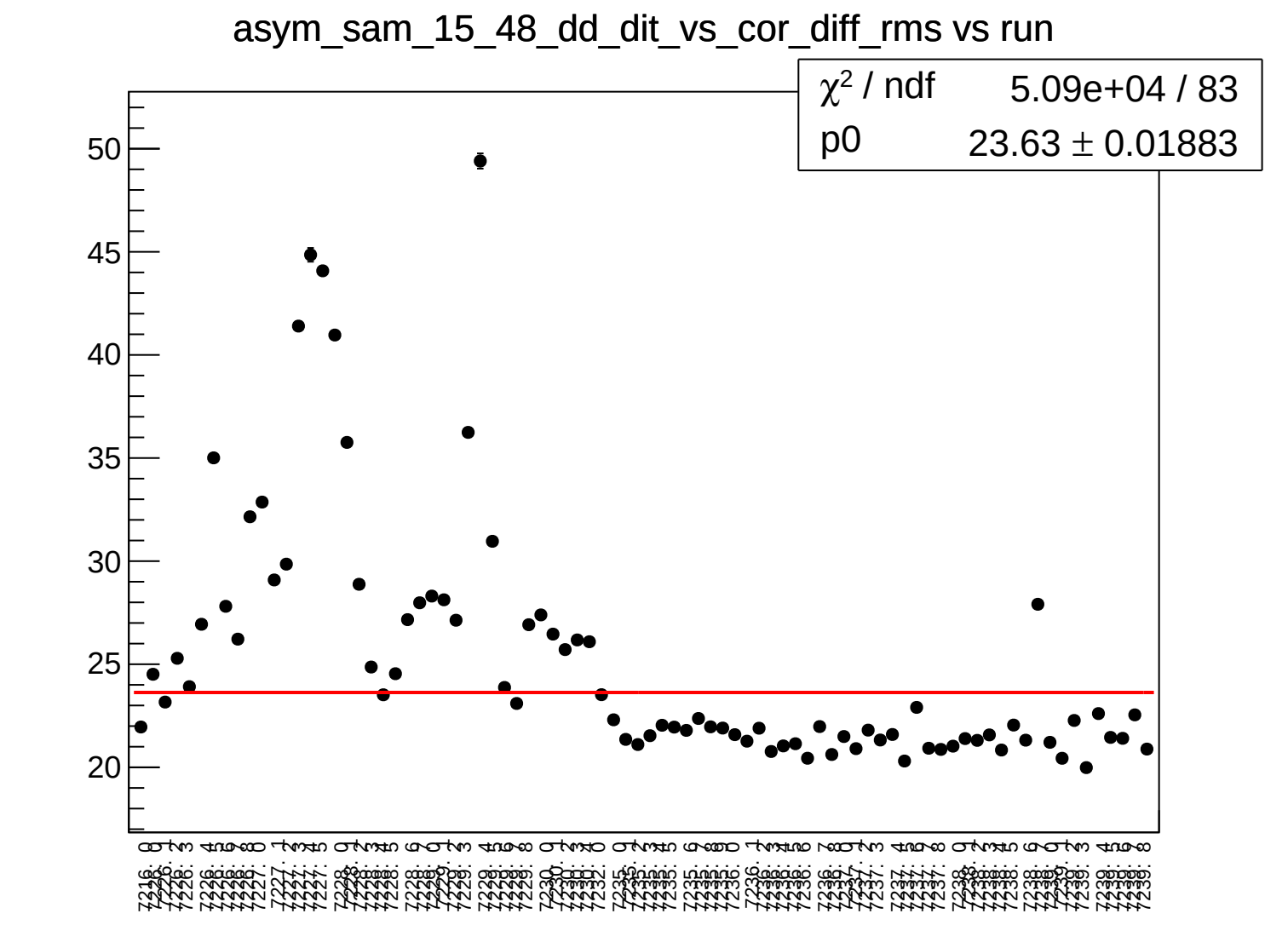

asym_sam_15_48_dd_rms vs run
χ^2 / ndf 8673 / 83
p0 361.8 ± 0.2845
440
420
400
380
360
340
320
300

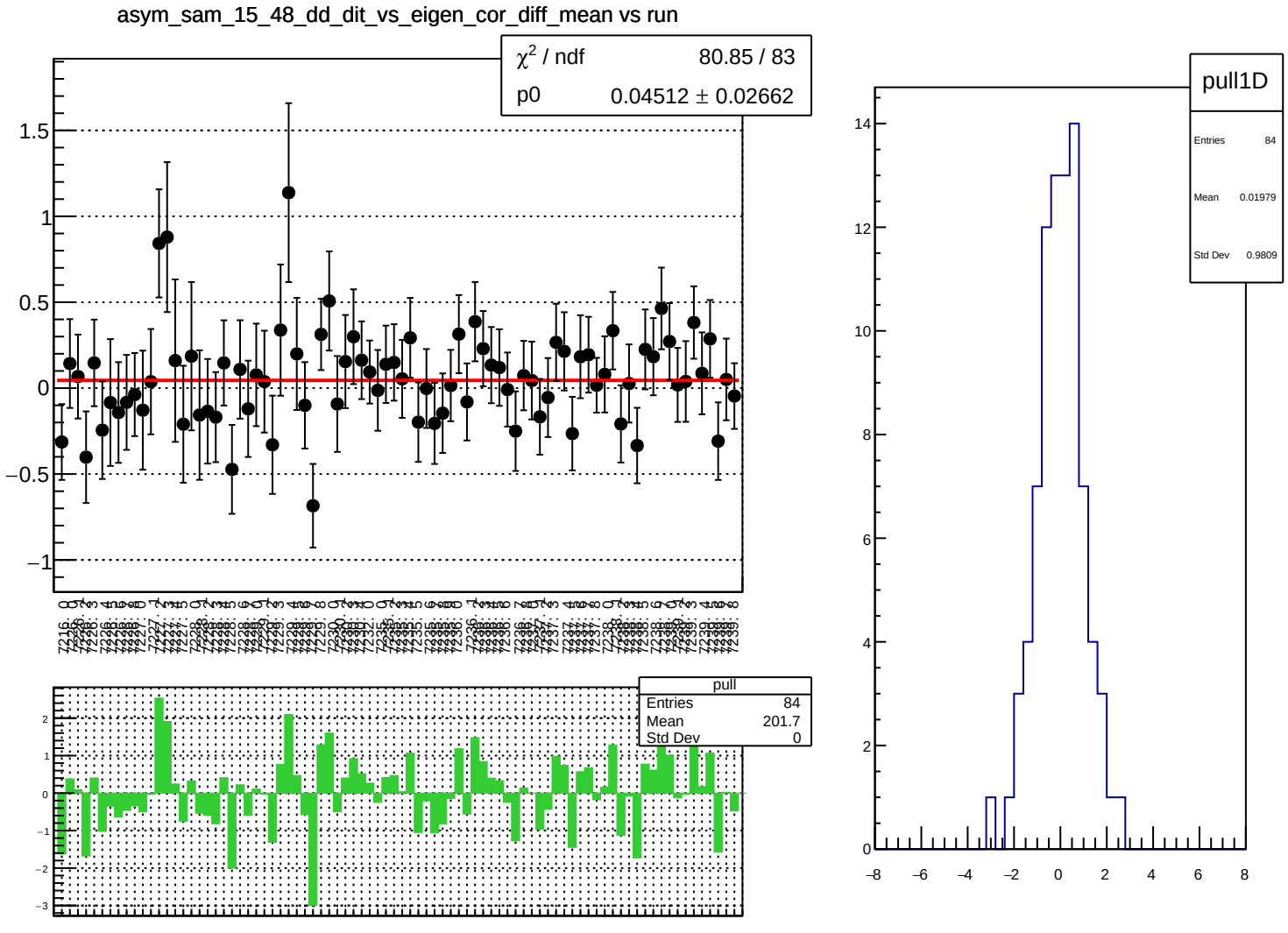

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 95.16 / 83
p0 −4.572e−17 ± 1.955e−14
pull
Entries 84
Mean 28.2
Std Dev 9.51

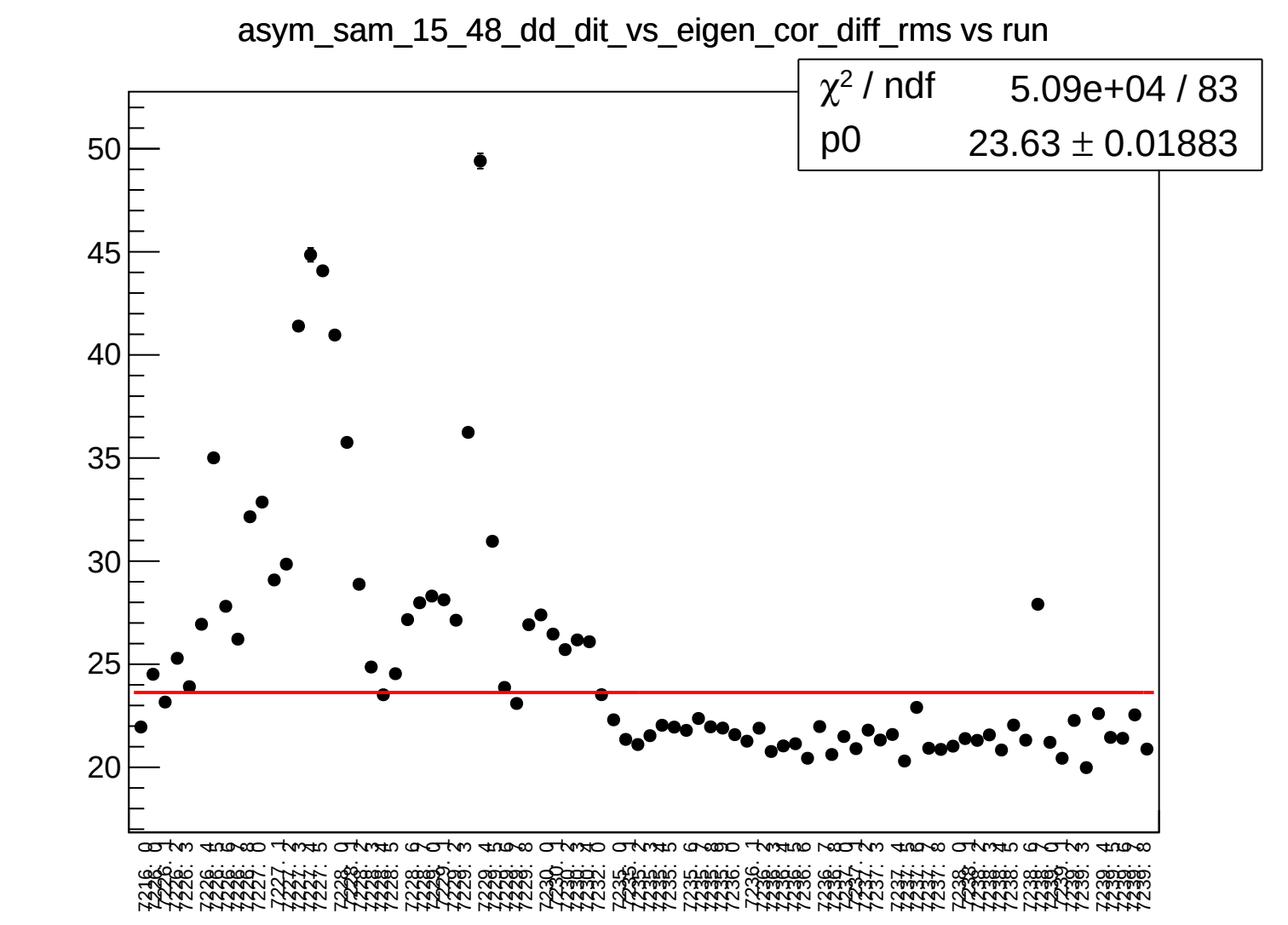

pull1D
Entries 84
Mean 0.1171
Std Dev 1.058

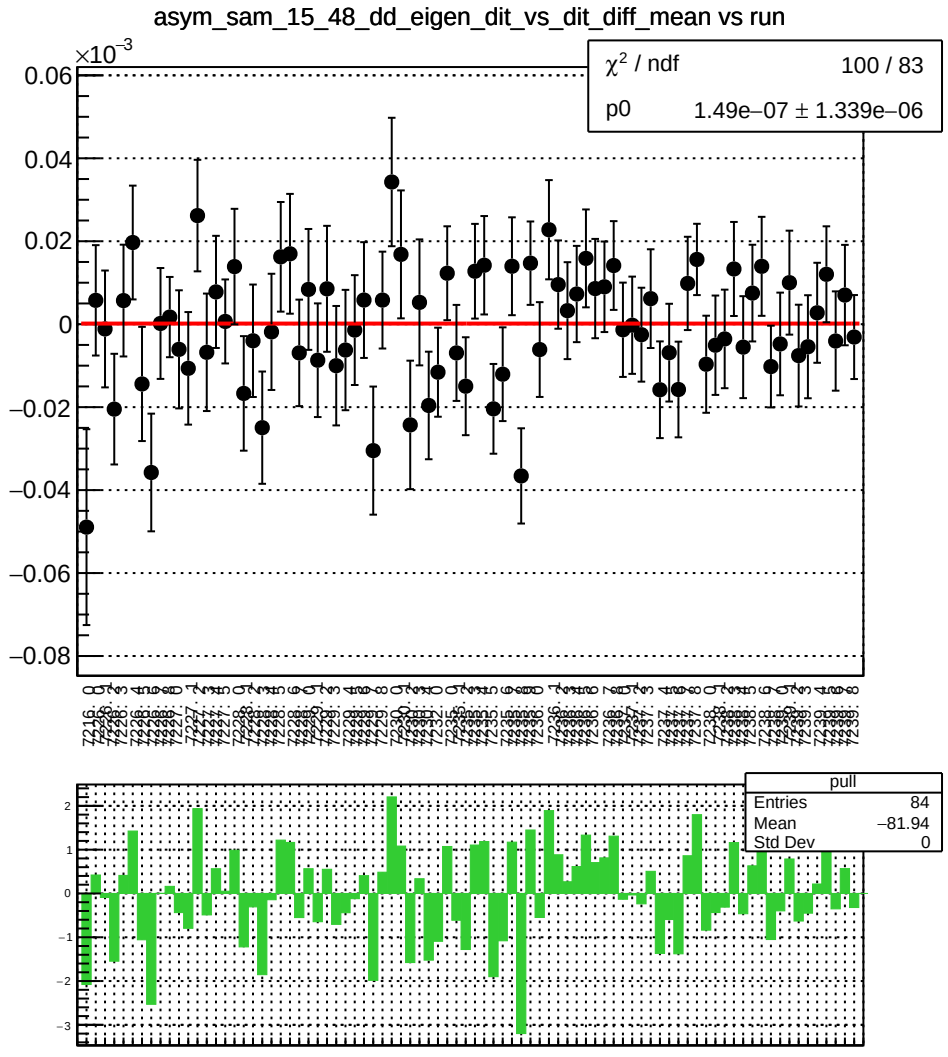

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.037e+06 / 83
p0 1.061e−11 ± 1.382e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

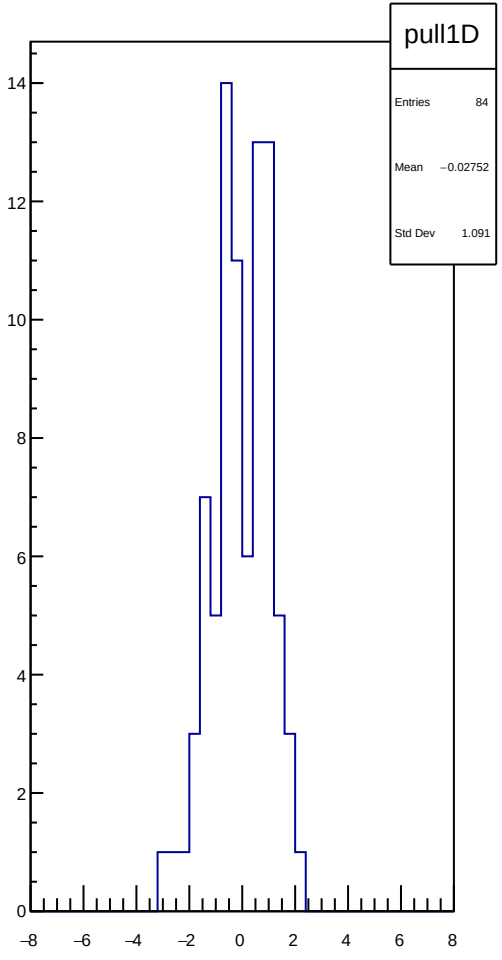

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 80.85 / 83
p0 0.04512 ± 0.02662
pull
Entries 84
Mean 201.7
Std Dev 0
pull1D
Entries 84
Mean 0.01979
Std Dev 0.9809

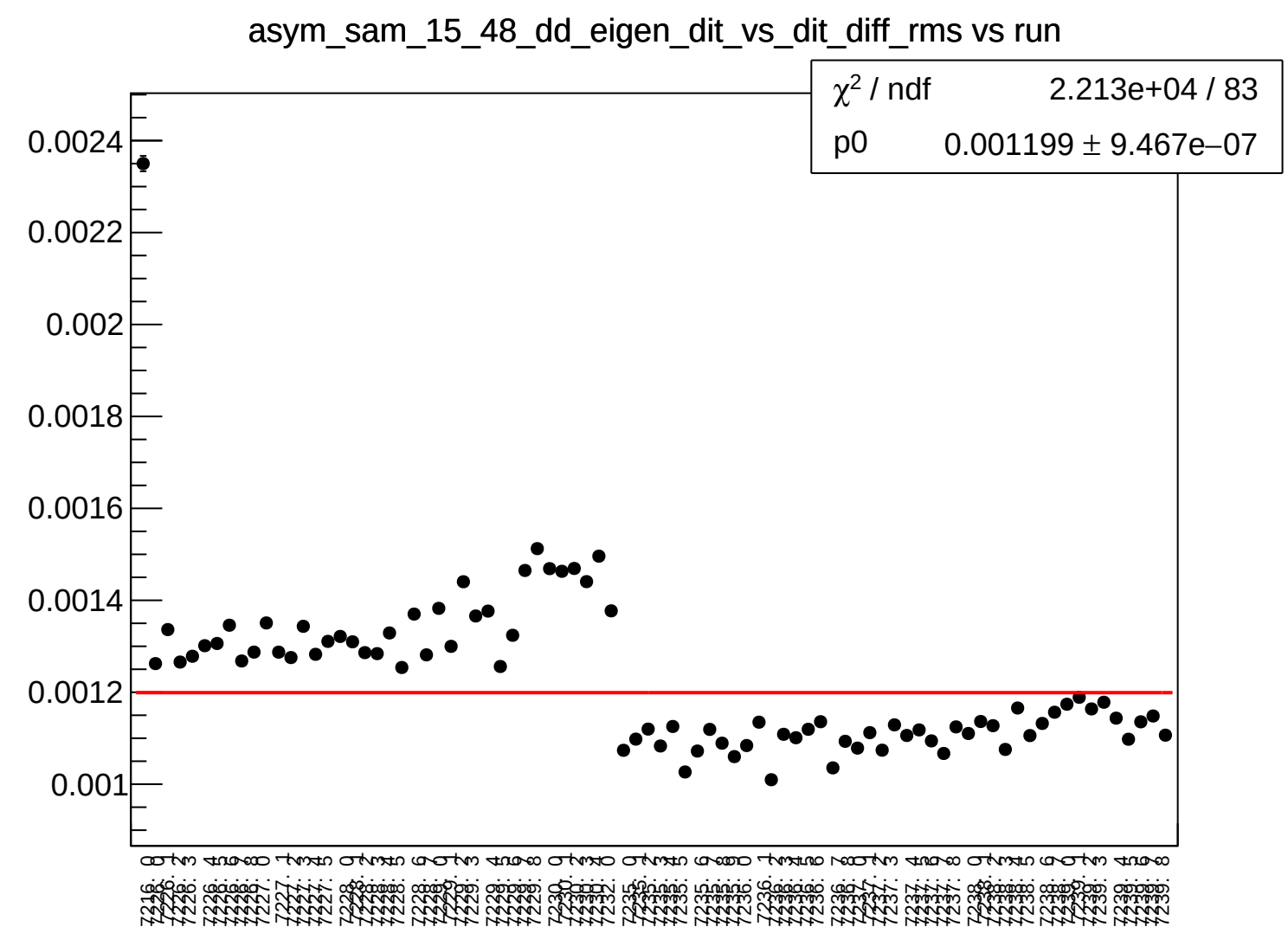

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.09e+04 / 83
p0 23.63 ± 0.01883
50
45
40
35
30
25
20

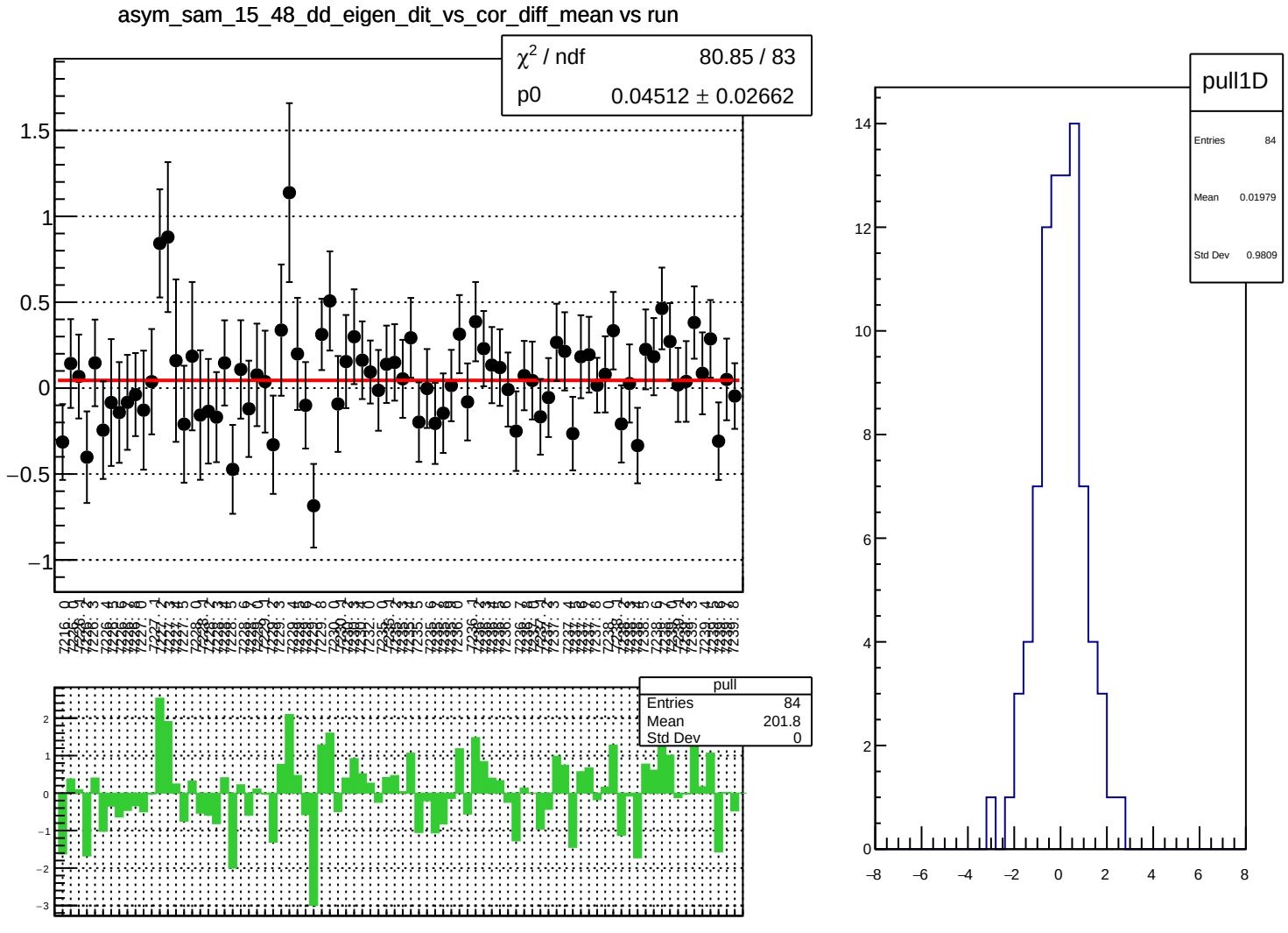

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.85 / 83
p0 0.04512 ± 0.02662
pull
Entries 84
Mean 201.7
Std Dev 0
pull1D
Entries 84
Mean 0.01979
Std Dev 0.9809

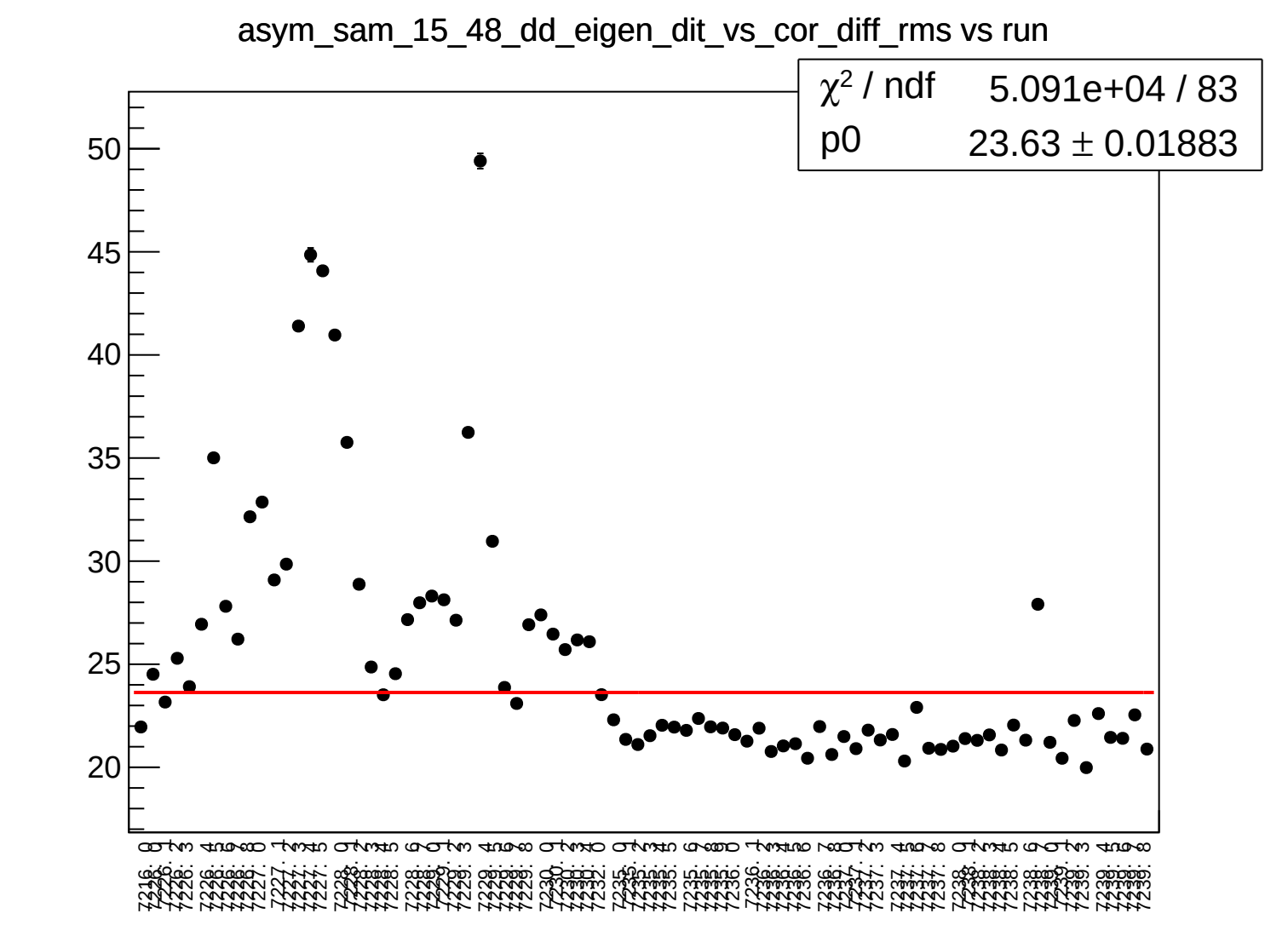

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.09e+04 / 83
p0 23.63 ± 0.01883
50
45
40
35
30
25
20

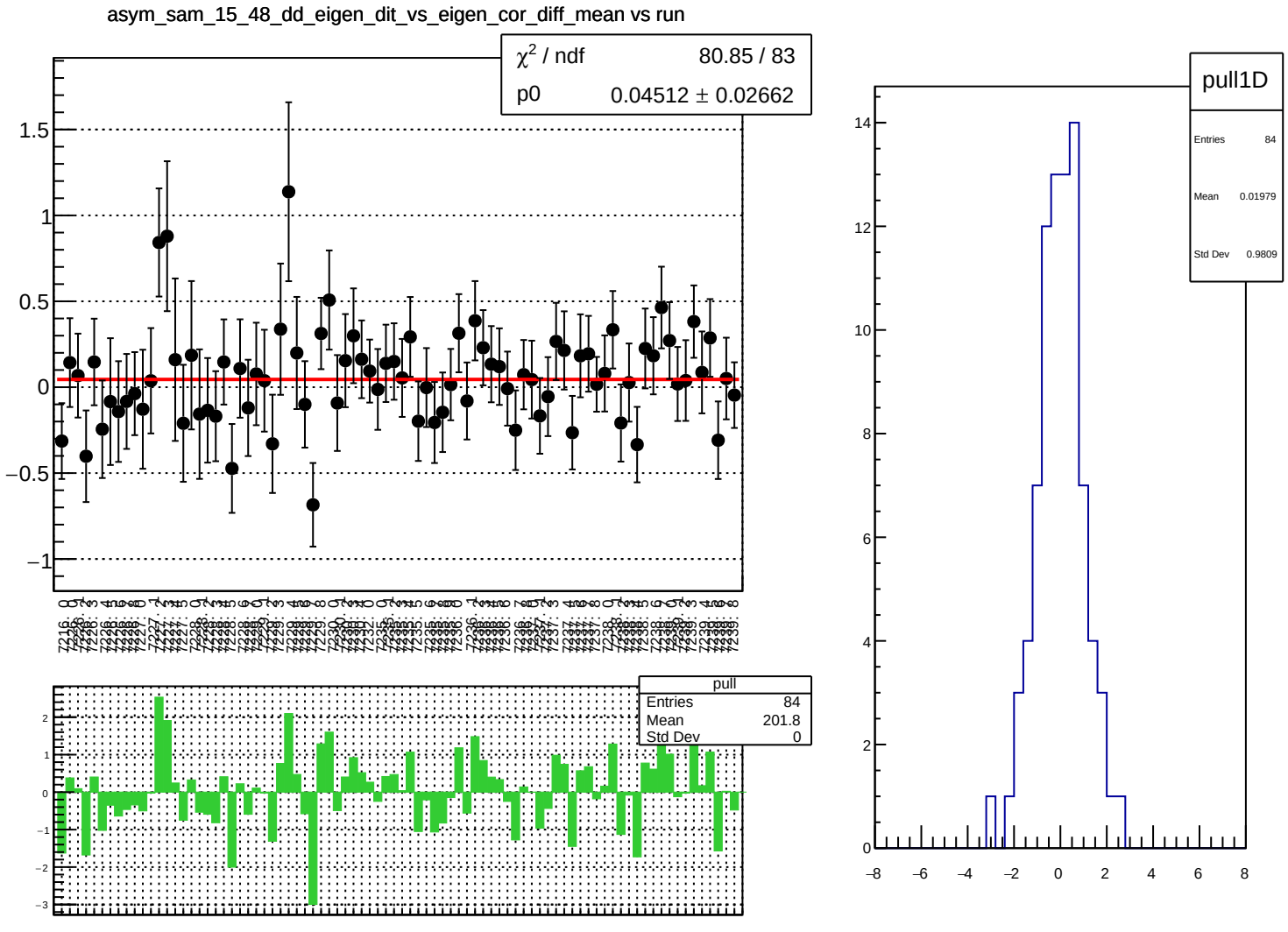

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100 / 83
p0 1.49e−07 ± 1.339e−06
pull
Entries 84
Mean −81.94
Std Dev 0

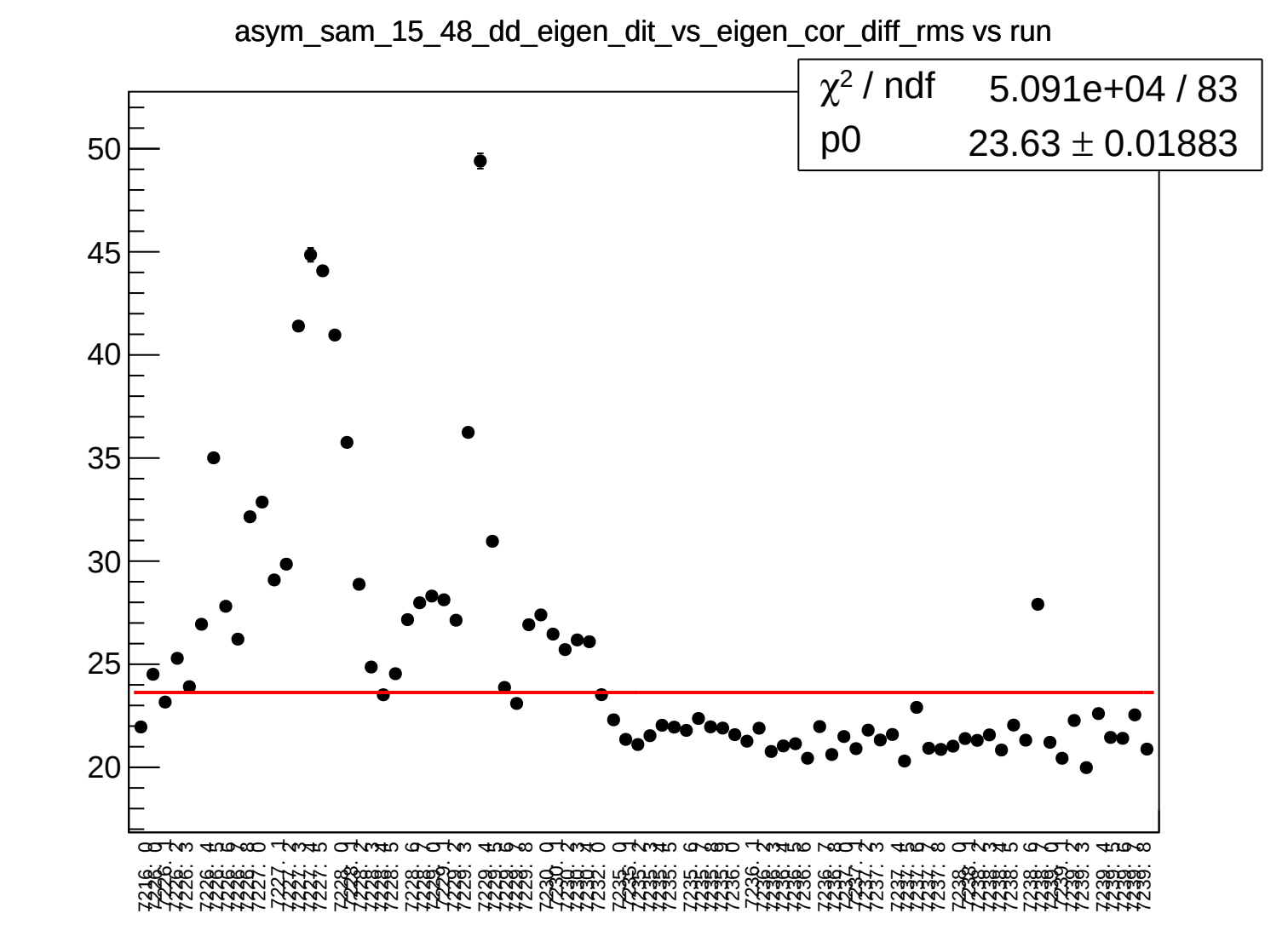

pull1D
Entries 84
Mean −0.02752
Std Dev 1.091

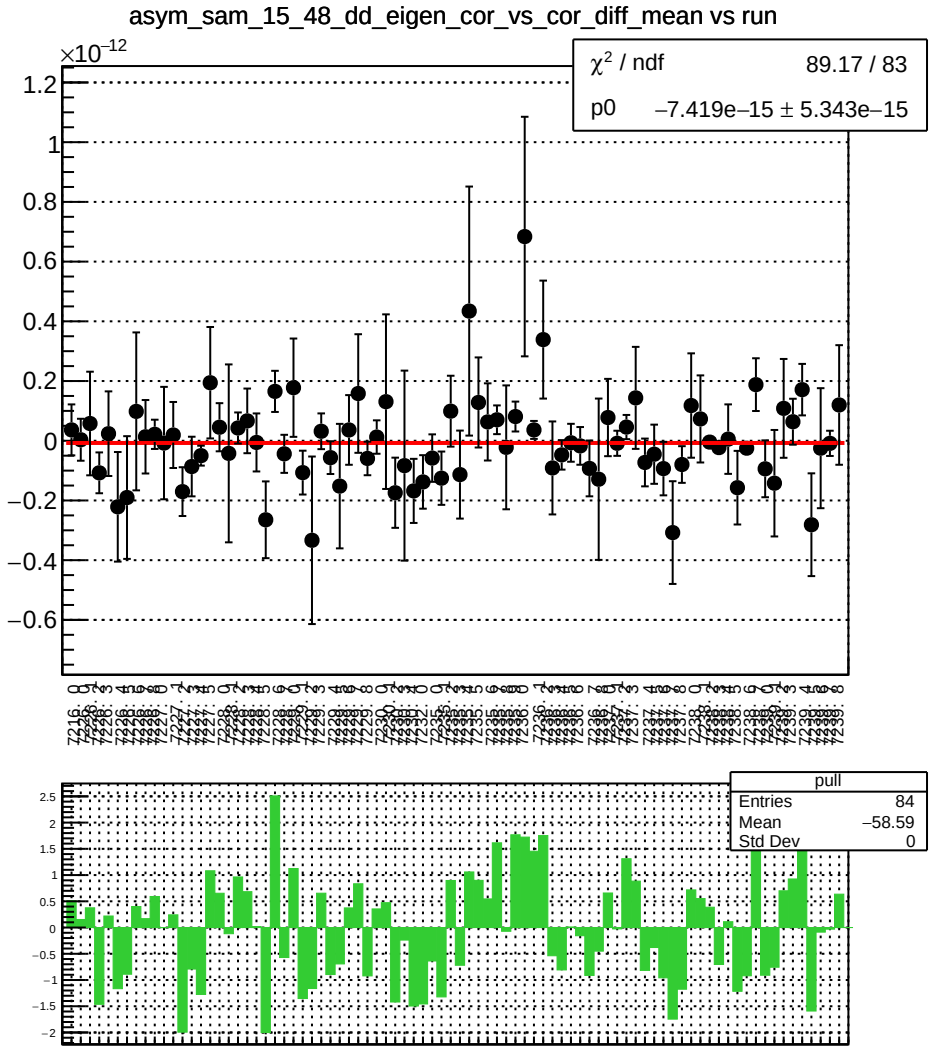

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.213e+04 / 83
p0 0.001199 ± 9.467e−07
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001

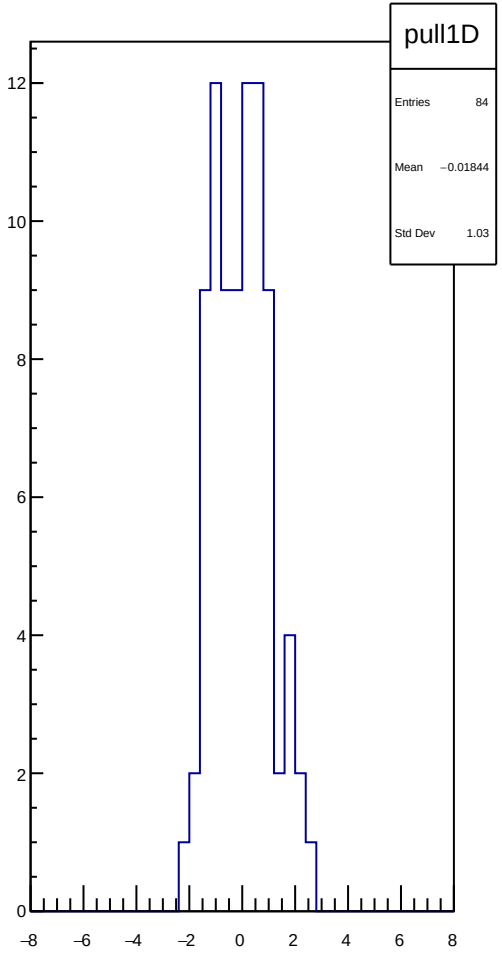

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.85 / 83
p0 0.04512 ± 0.02662
pull
Entries 84
Mean 201.8
Std Dev 0
pull1D
Entries 84
Mean 0.01979
Std Dev 0.9809

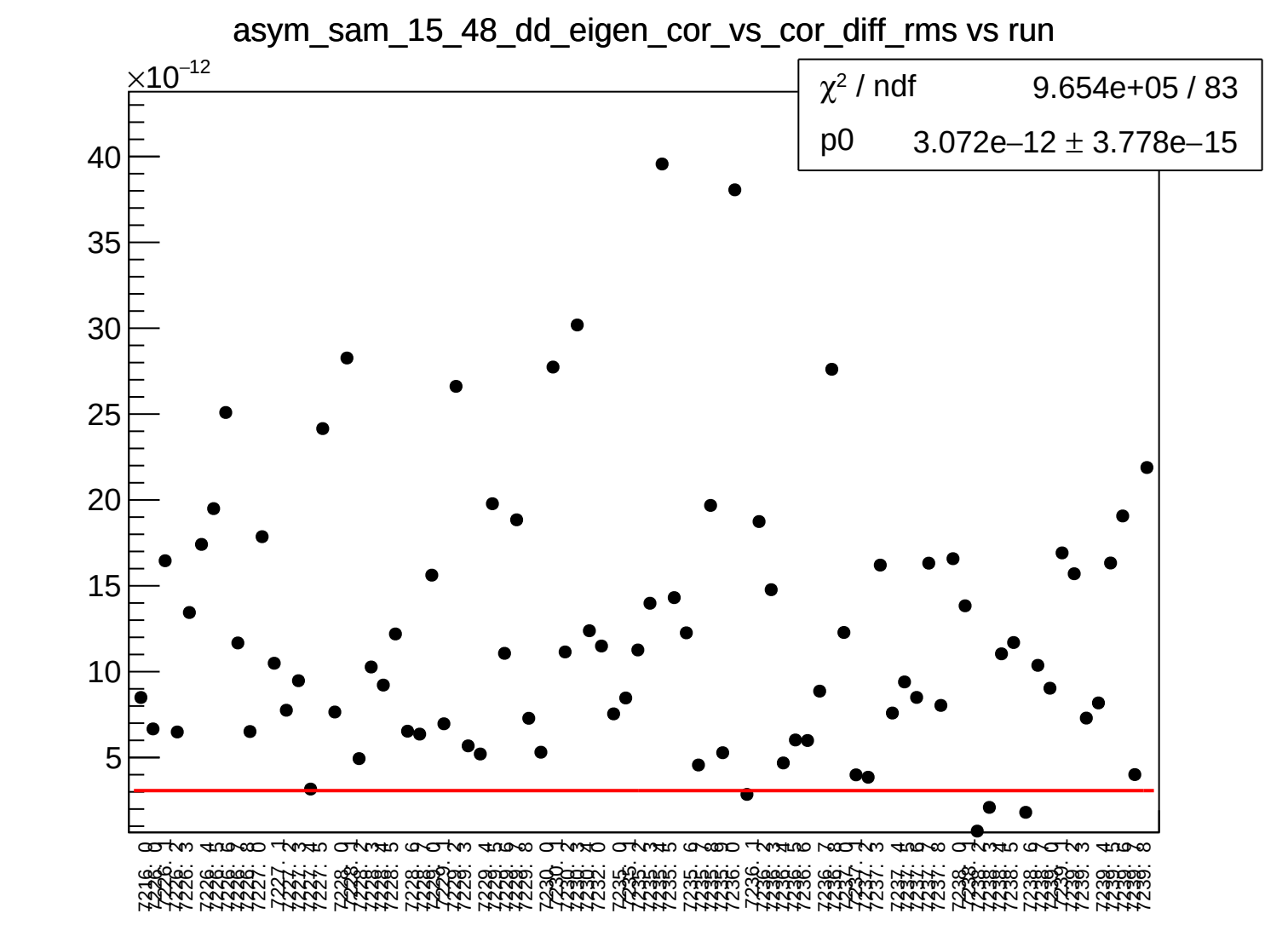

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.091e+04 / 83
p0 23.63 ± 0.01883
50
45
40
35
30
25
20

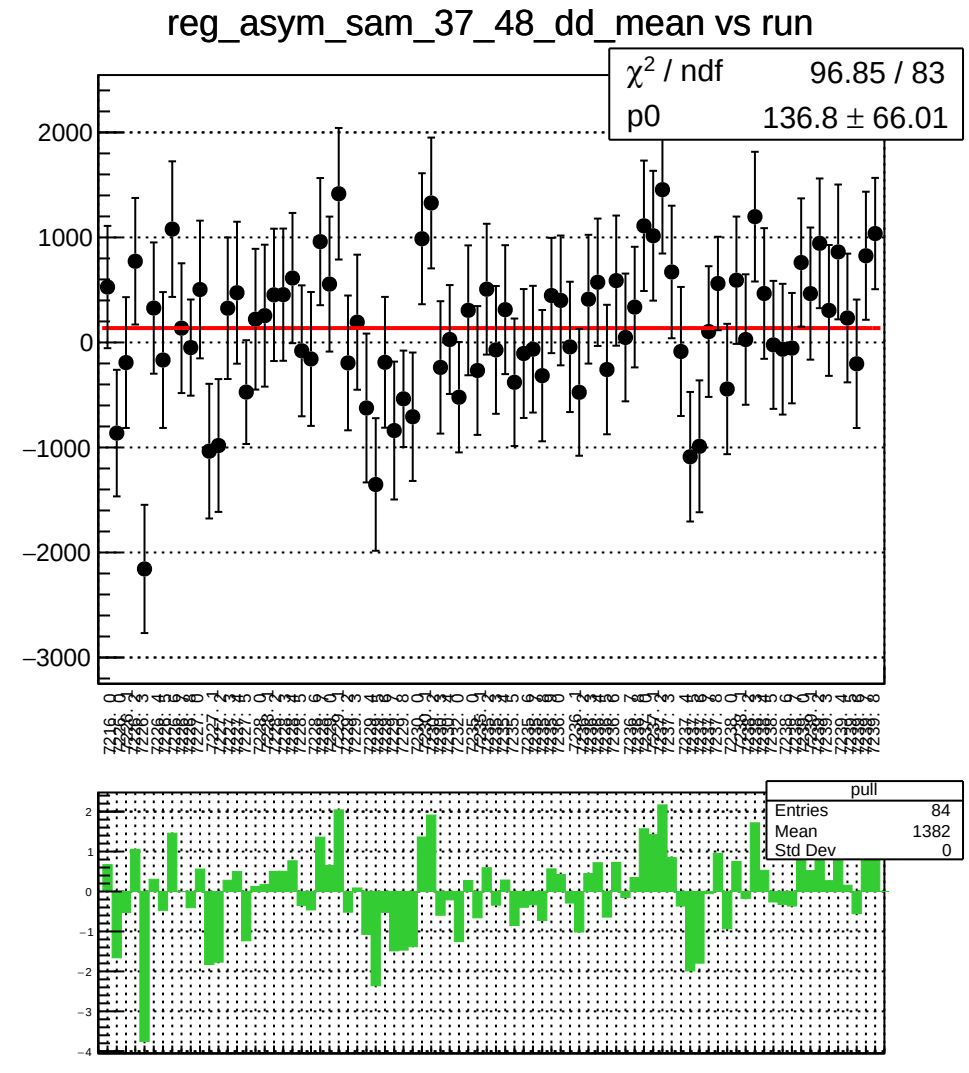

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.85 / 83
p0 0.04512 ± 0.02662
pull
Entries 84
Mean 201.8
Std Dev 0
pull1D
Entries 84
Mean 0.01979
Std Dev 0.9809

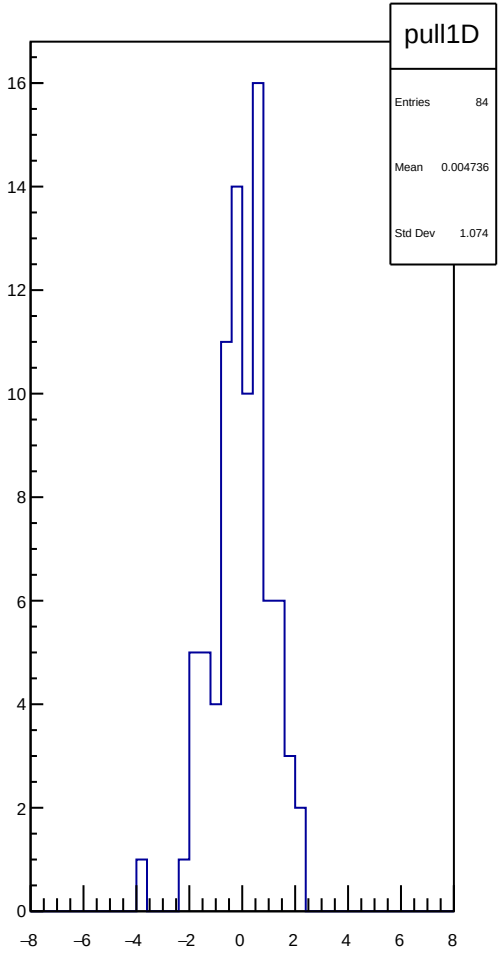

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.091e+04 / 83
p0 23.63 ± 0.01883
50
45
40
35
30
25
20

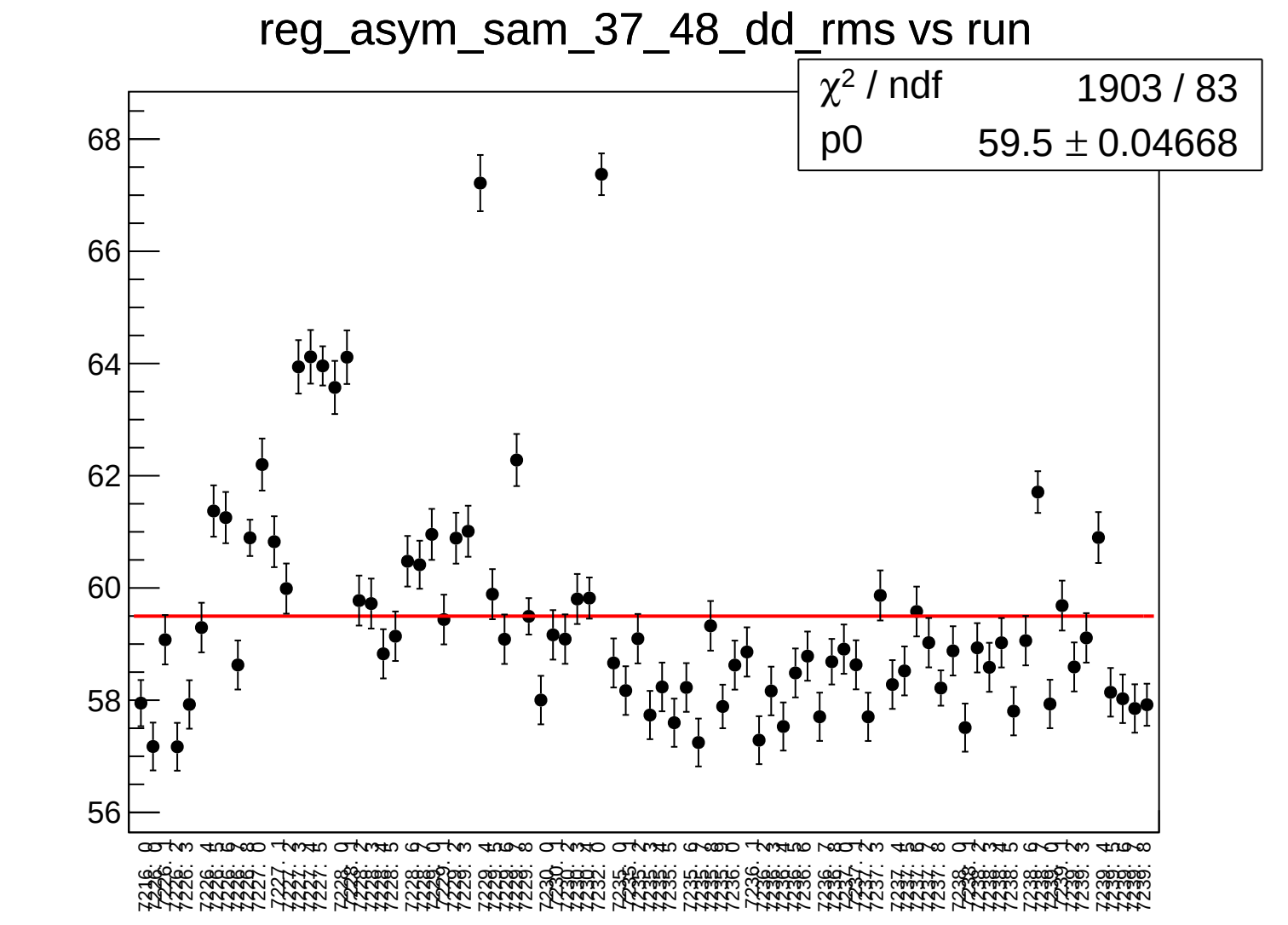

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.17 / 83
p0 −7.419e−15 ± 5.343e−15
pull
Entries 84
Mean −58.59
Std Dev 0

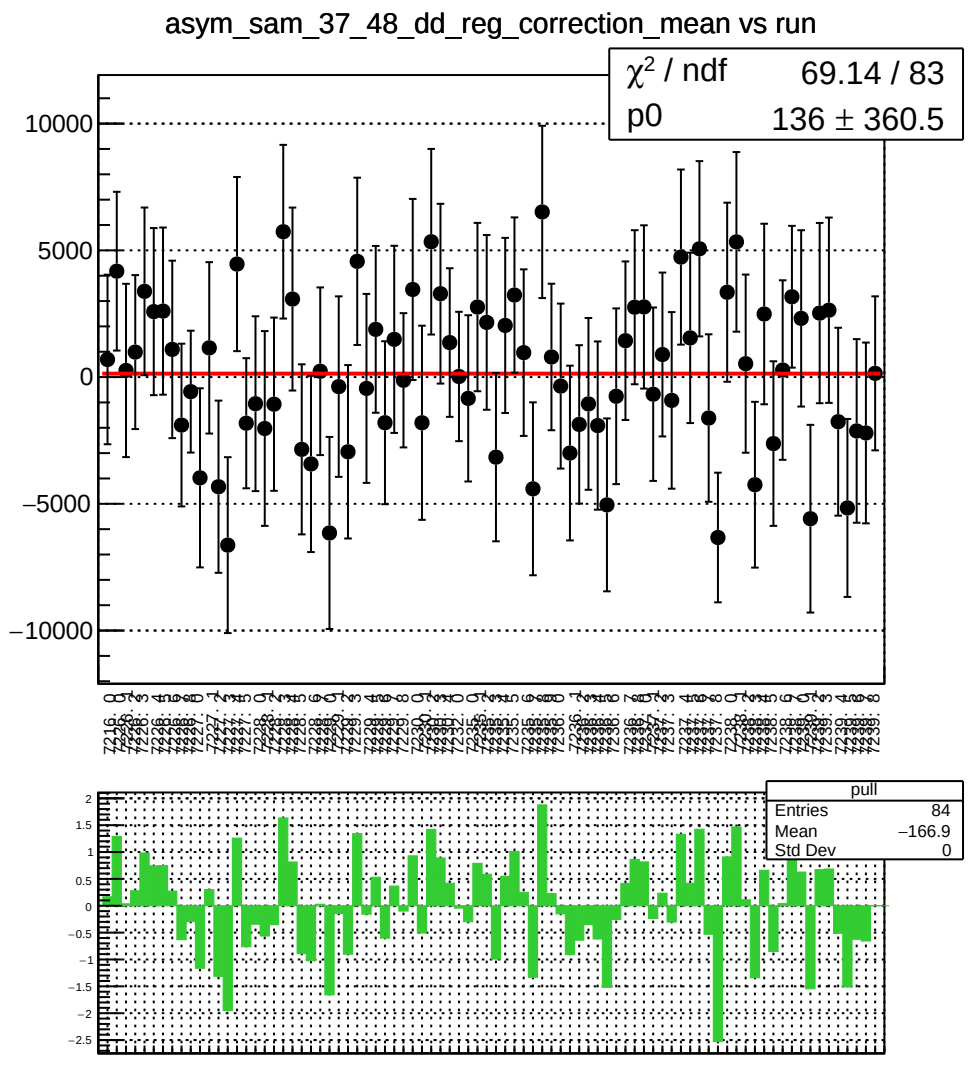

pull1D
Entries 84
Mean −0.01844
Std Dev 1.03

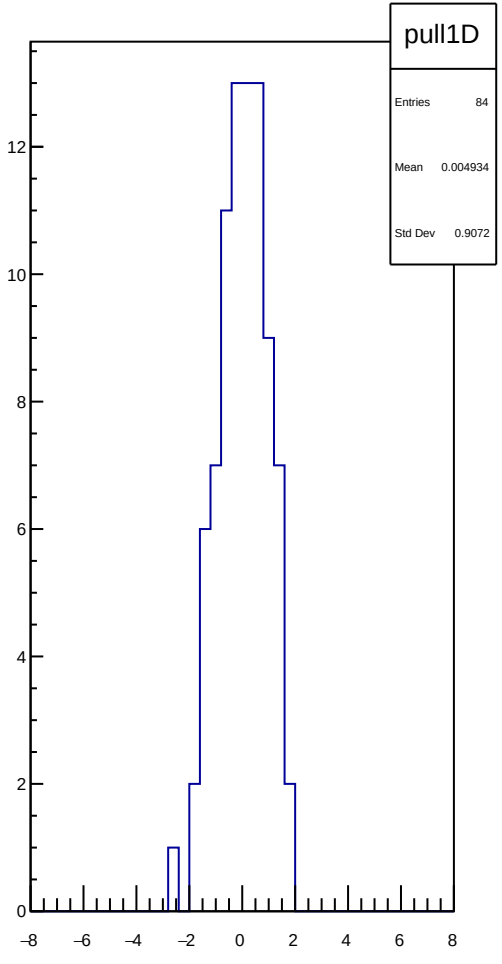

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 9.654e+05 / 83
p0 3.072e−12 ± 3.778e−15
40
35
30
25
20
15
10
5

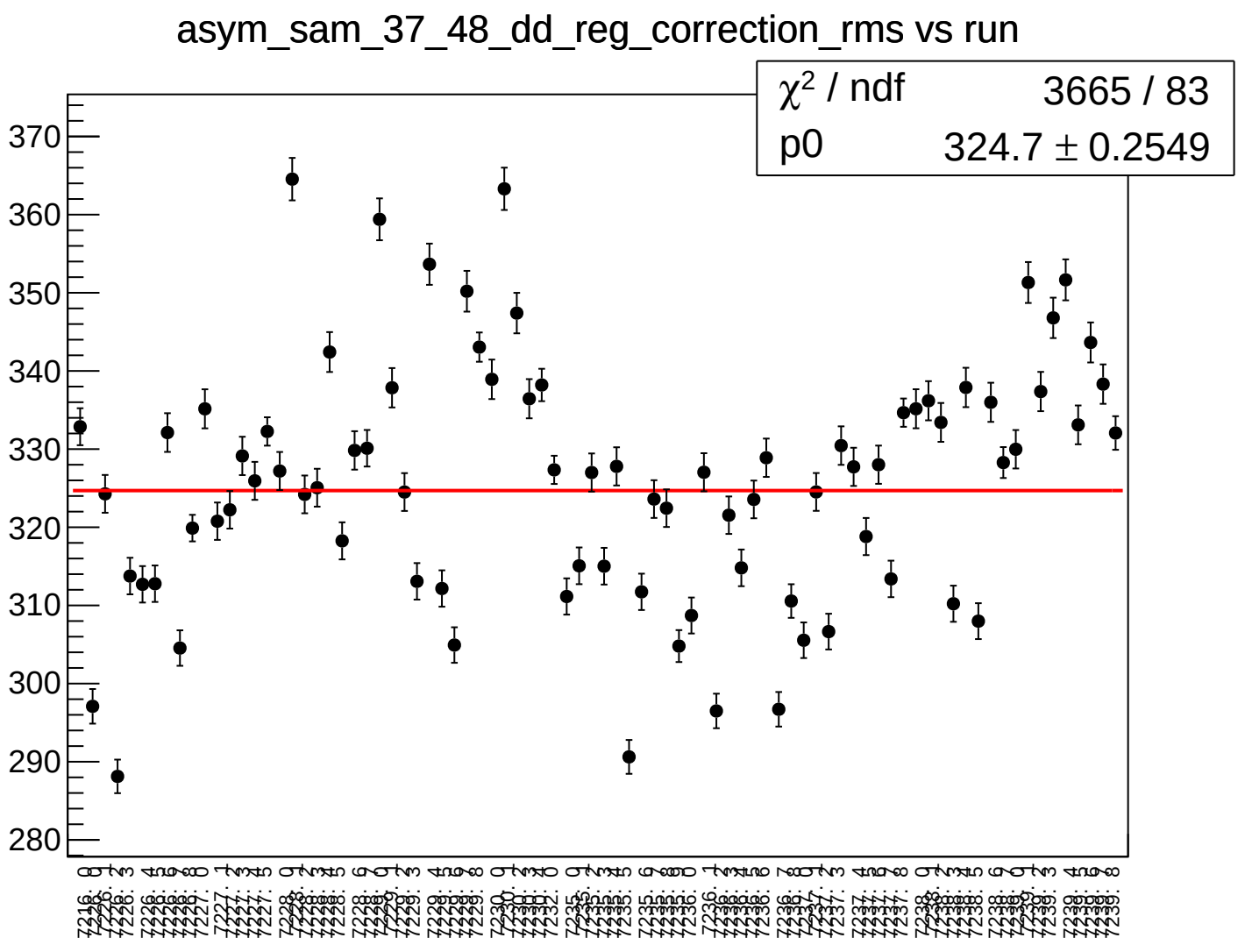

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 96.85 / 83
p0 136.8 ± 66.01
pull
Entries 84
Mean 1382
Std Dev 0

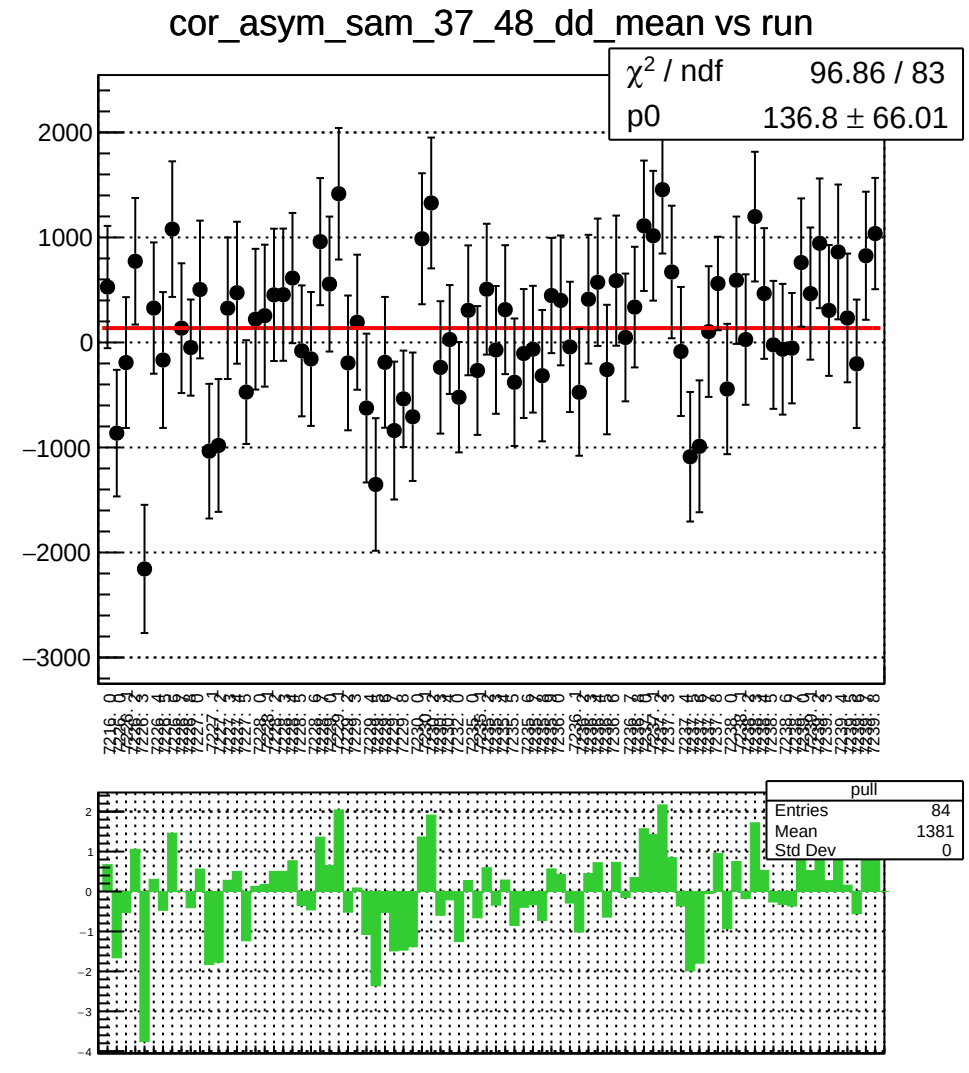

pull1D
Entries 84
Mean 0.004736
Std Dev 1.074

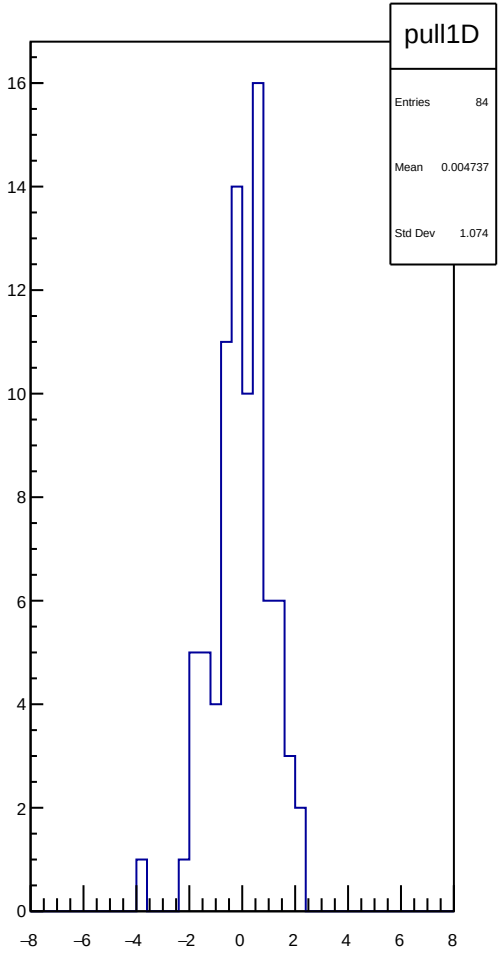

reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 1903 / 83
p0 59.5 ± 0.04668
68
66
64
62
60
58
56

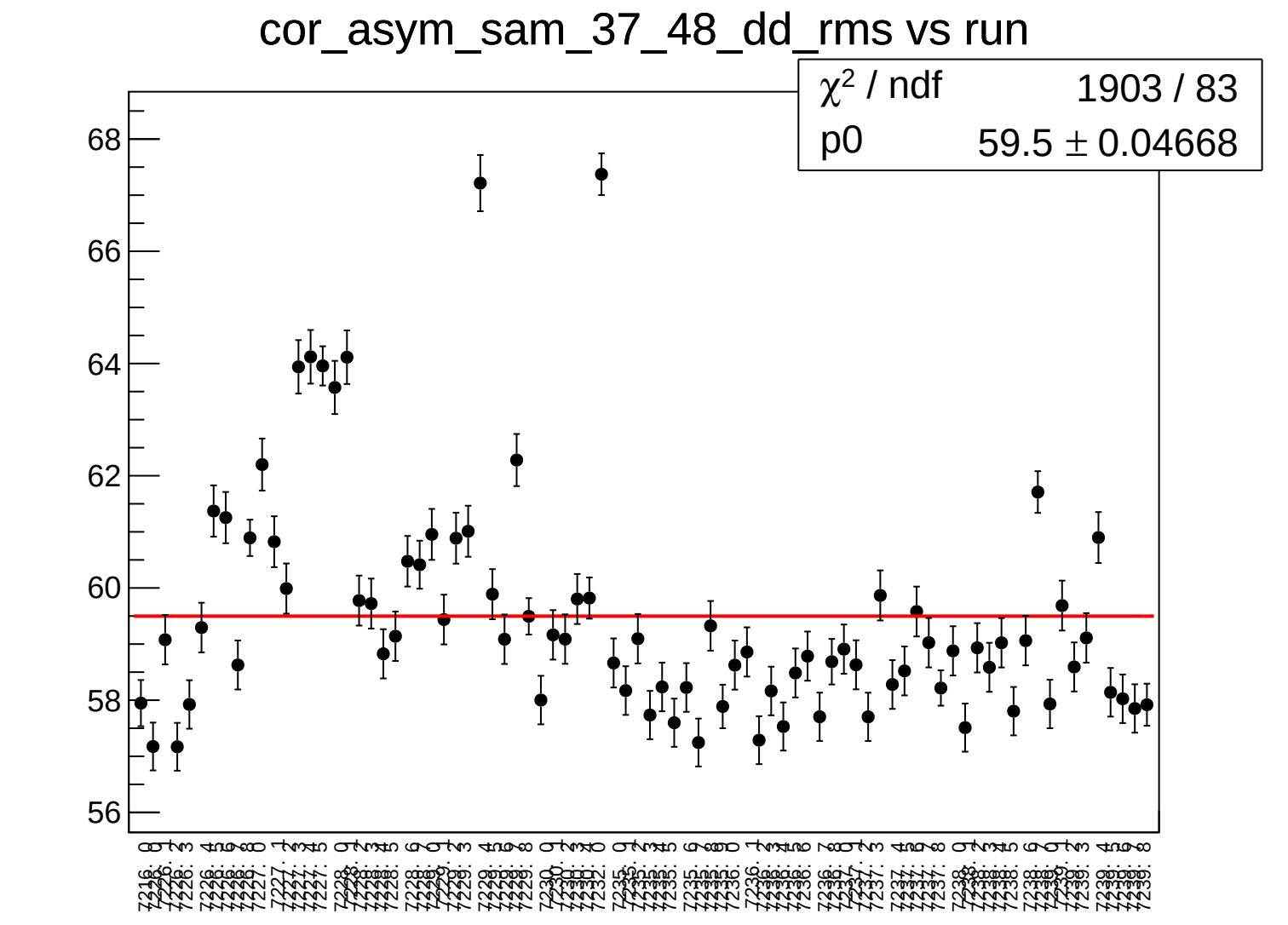

asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 69.14 / 83
p0 136 ± 360.5
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −166.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

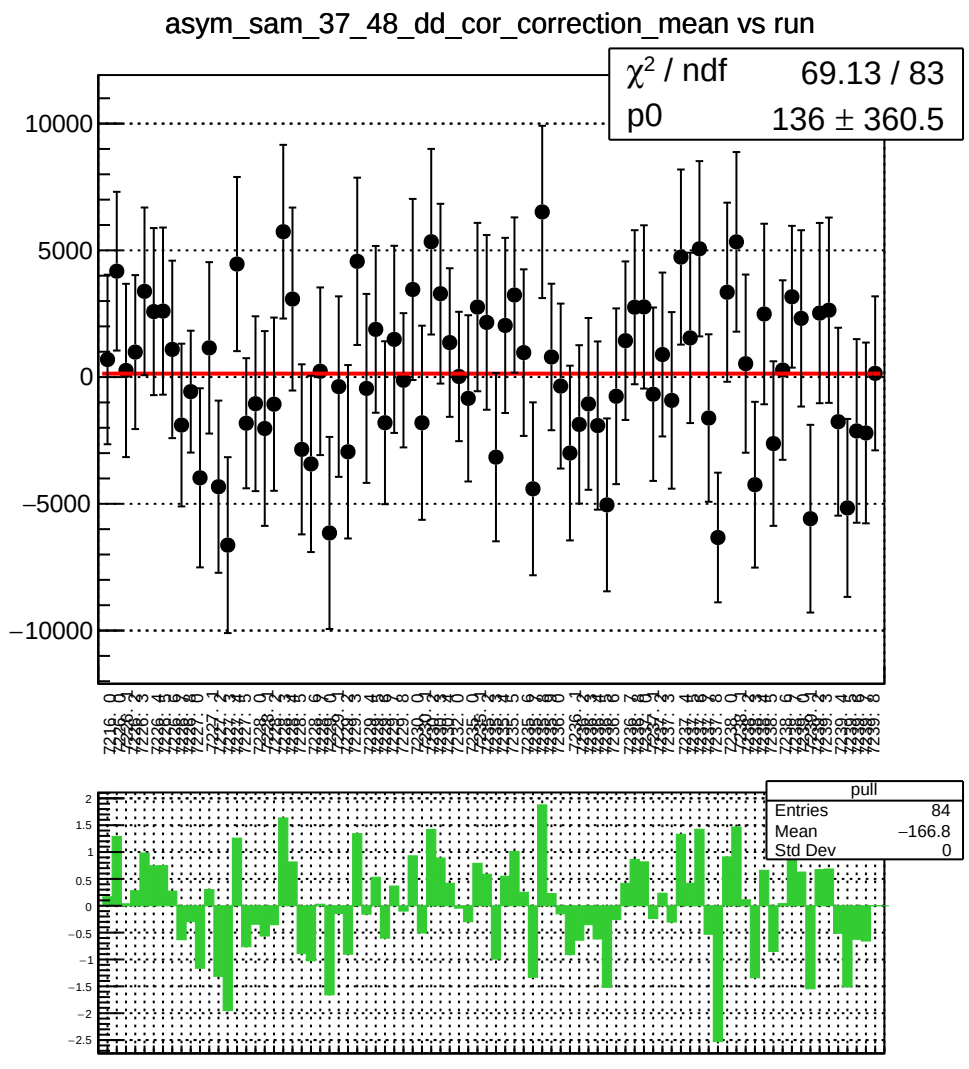

pull1D
Entries 84
Mean 0.004934
Std Dev 0.9072
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

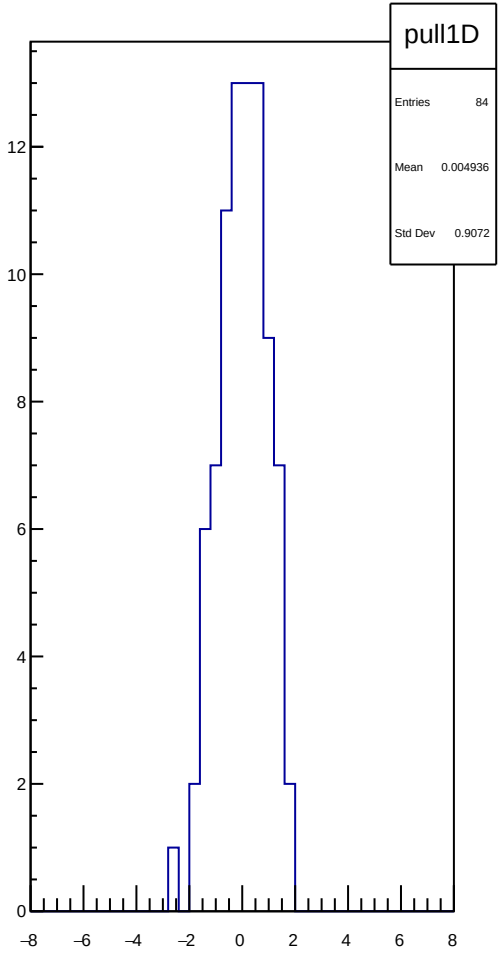

asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 3665 / 83
p0 324.7 ± 0.2549
370
360
350
340
330
320
310
300
290
280

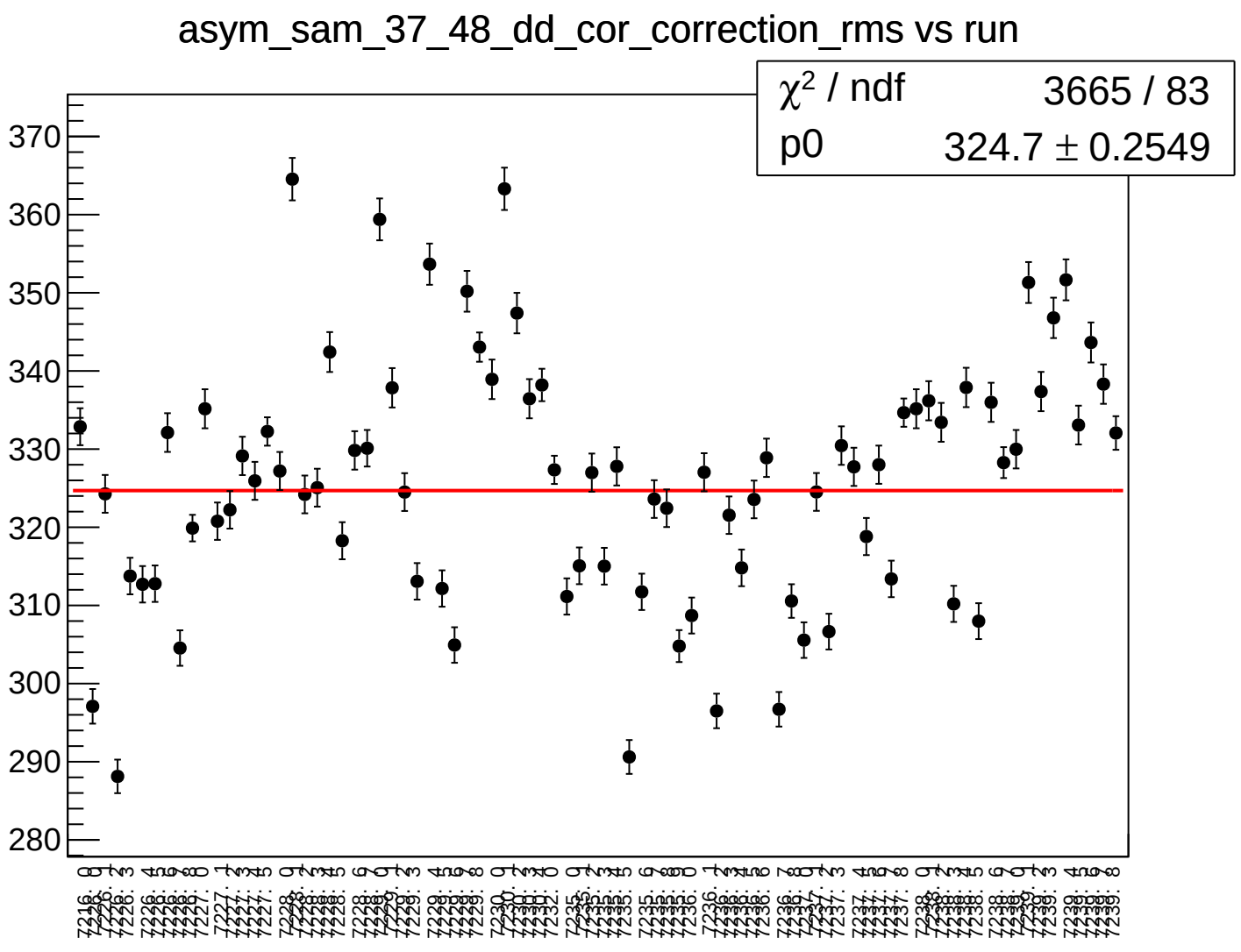

cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 96.86 / 83
p0 136.8 ± 66.01
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean 1381
Std Dev 0
2
1
0
−1
−2
−3
−4

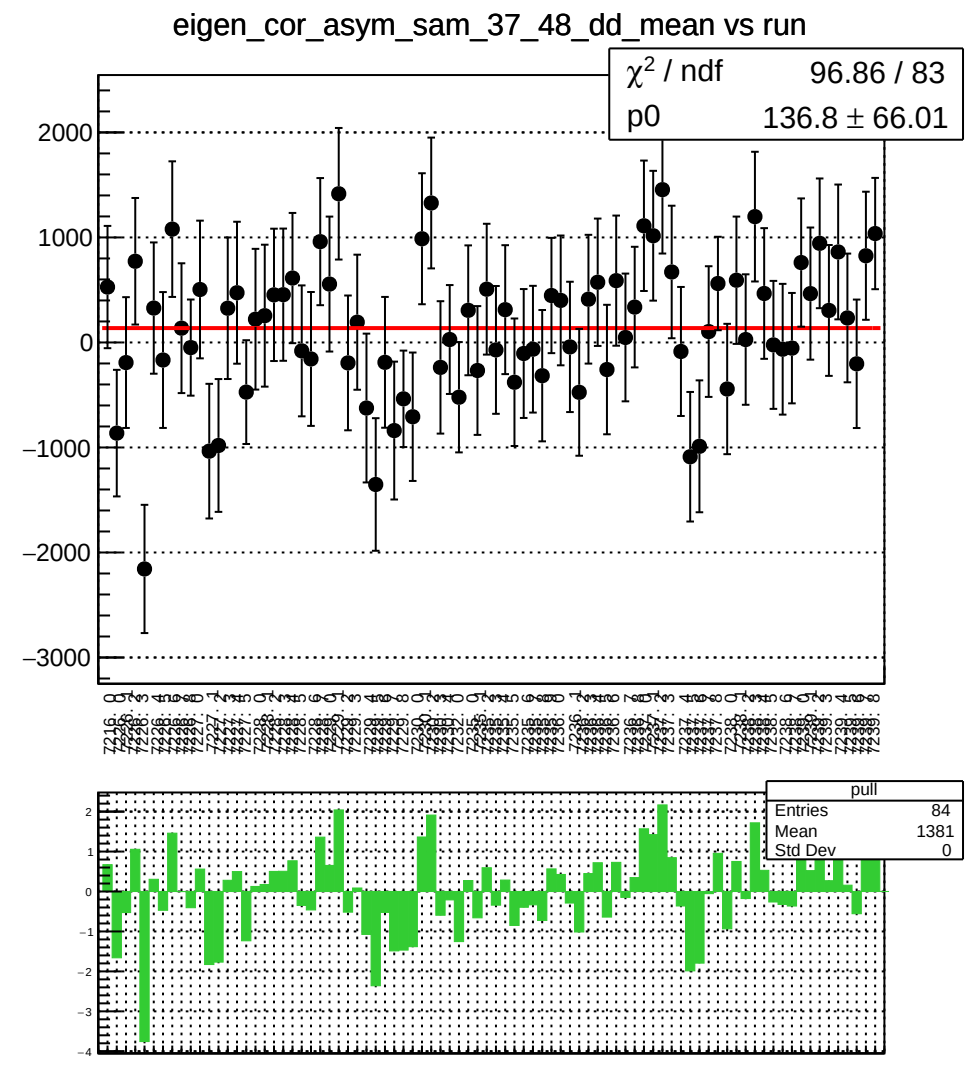

pull1D
Entries 84
Mean 0.004737
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

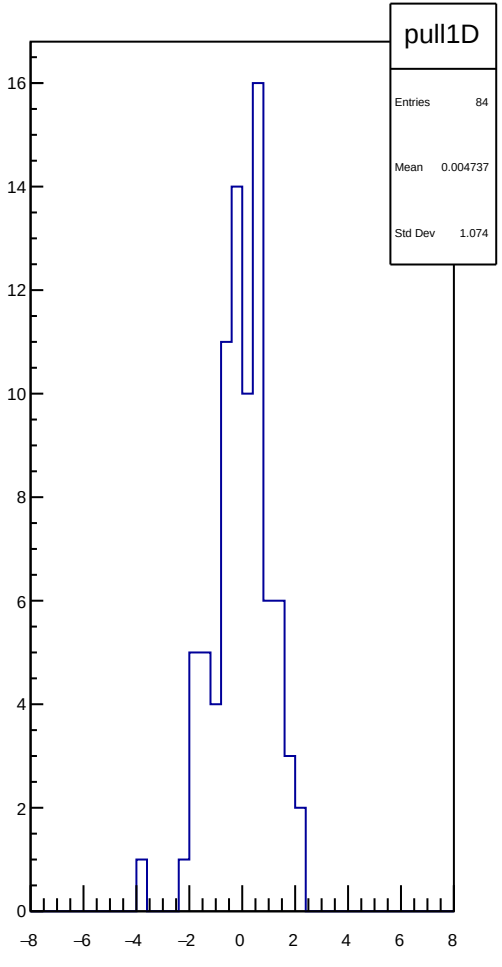

cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 1903 / 83
p0 59.5 ± 0.04668
68
66
64
62
60
58
56

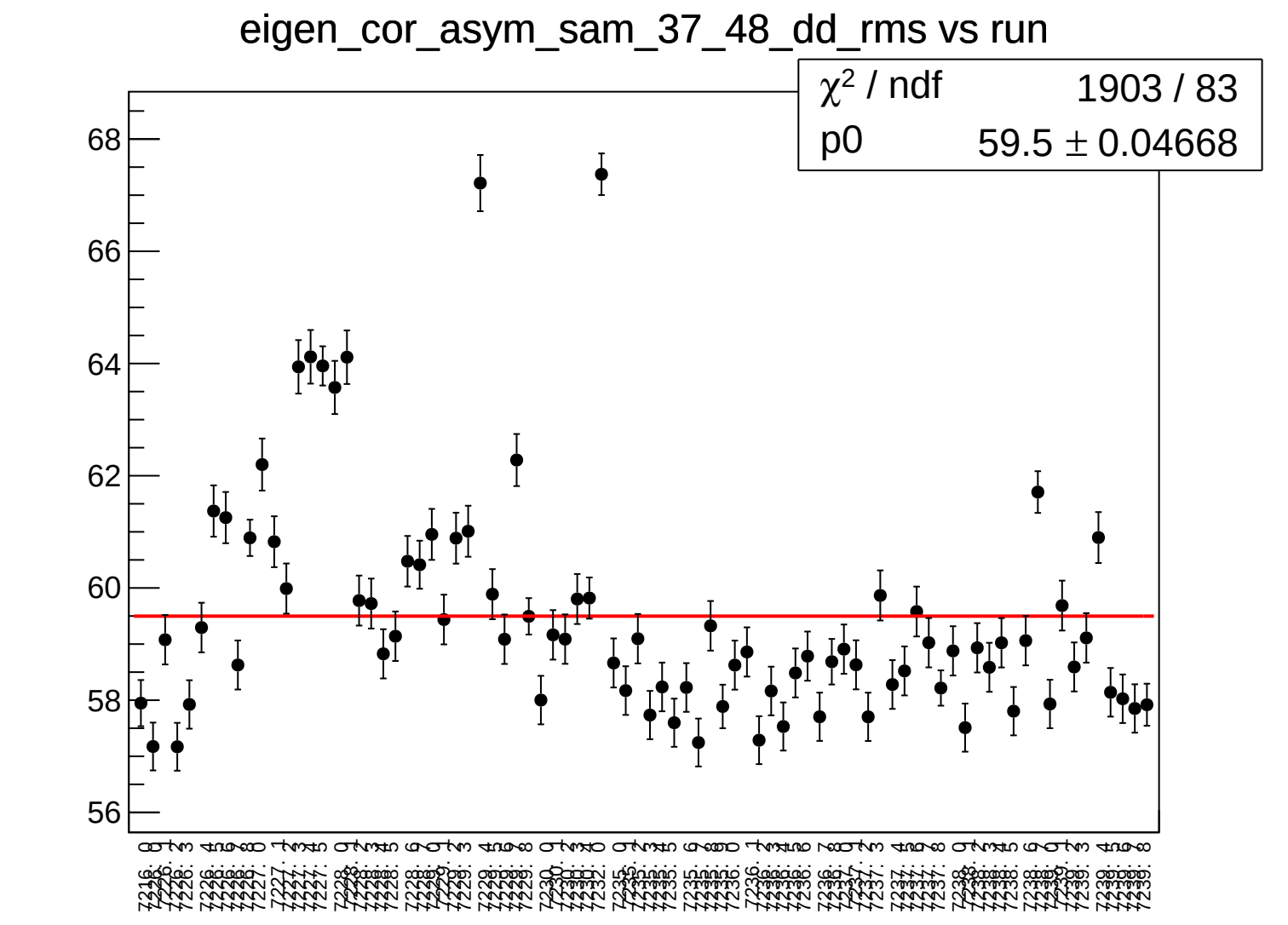

asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 69.13 / 83
p0 136 ± 360.5
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −166.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

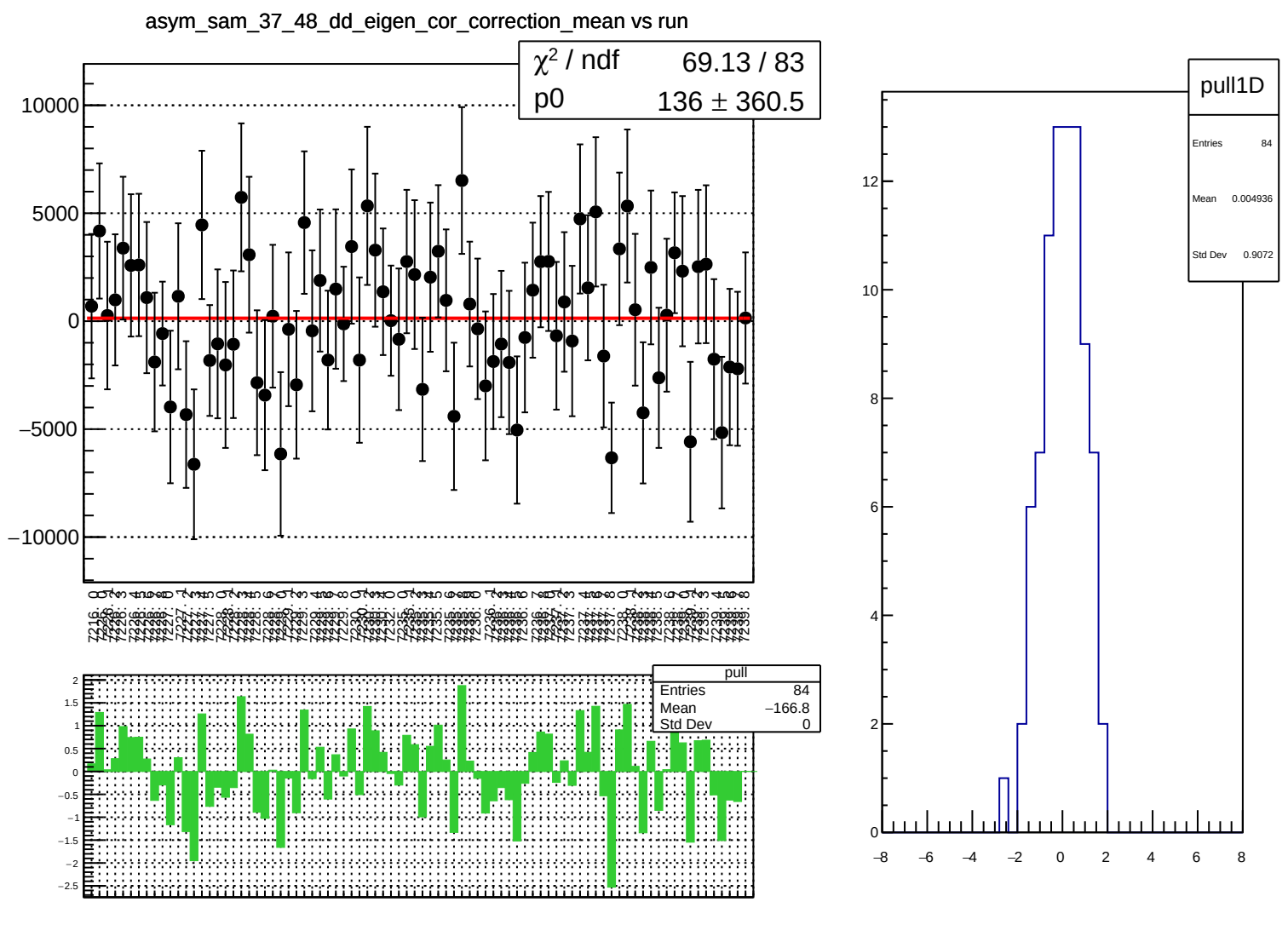

pull1D
Entries 84
Mean 0.004936
Std Dev 0.9072
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

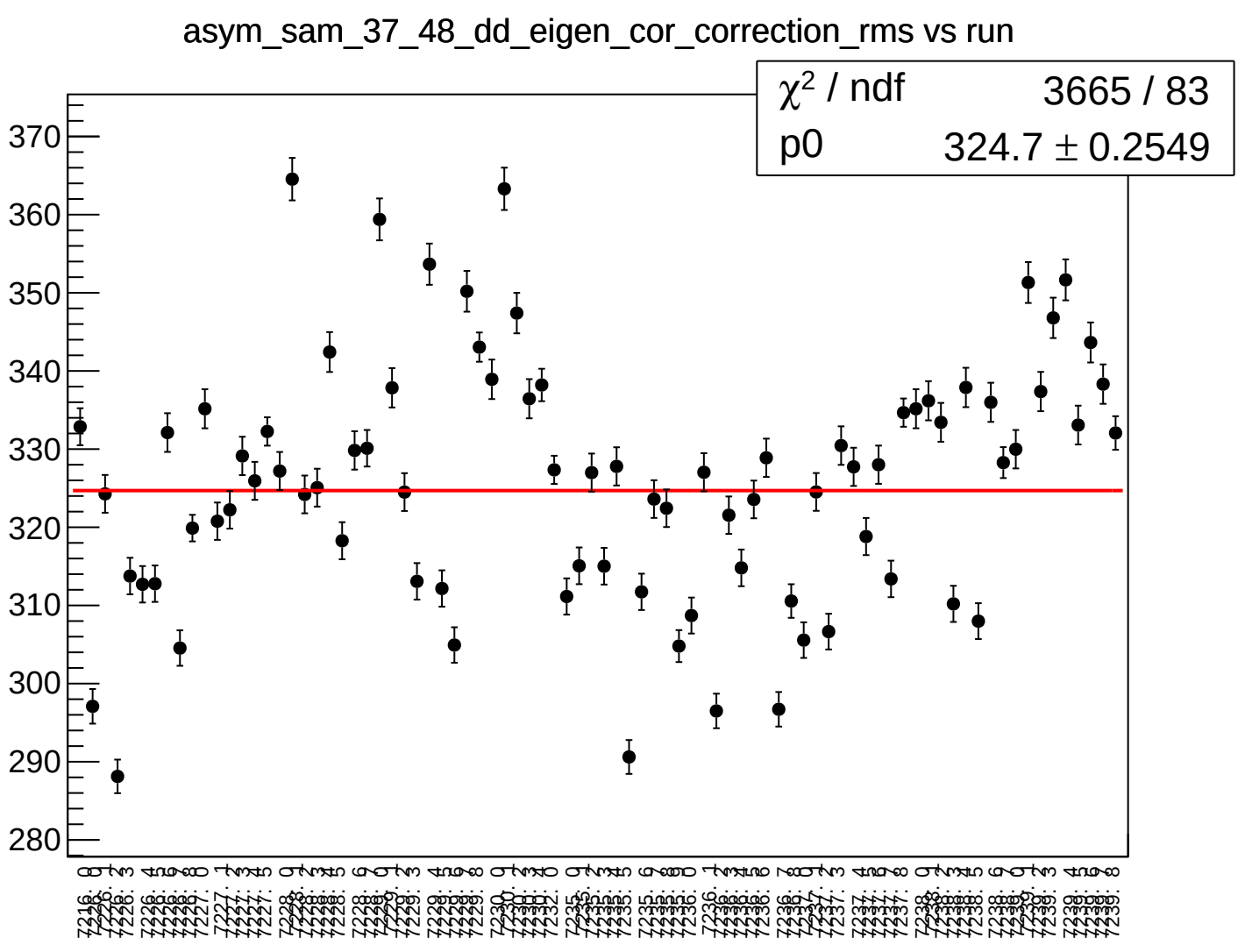

asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 3665 / 83
p0 324.7 ± 0.2549
370
360
350
340
330
320
310
300
290
280

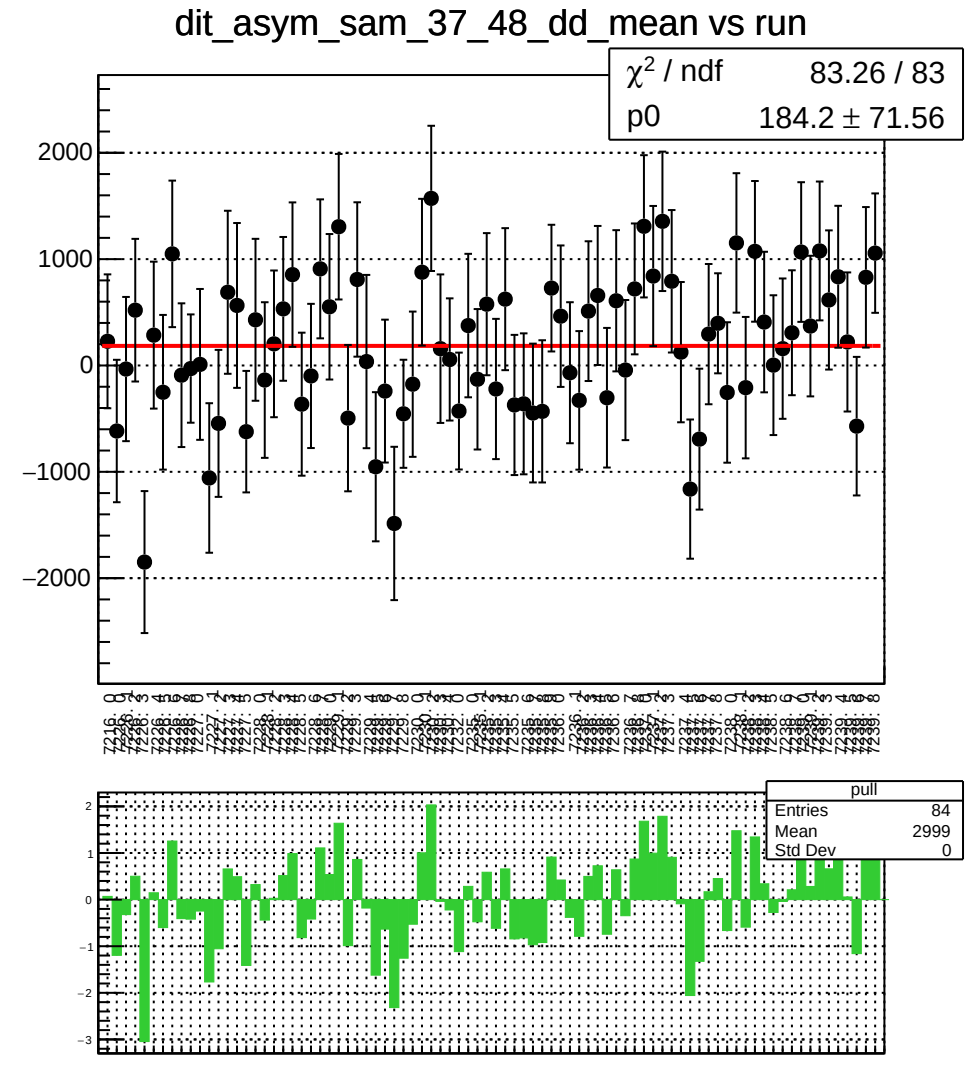

eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 96.86 / 83
p0 136.8 ± 66.01
pull
Entries 84
Mean 1381
Std Dev 0

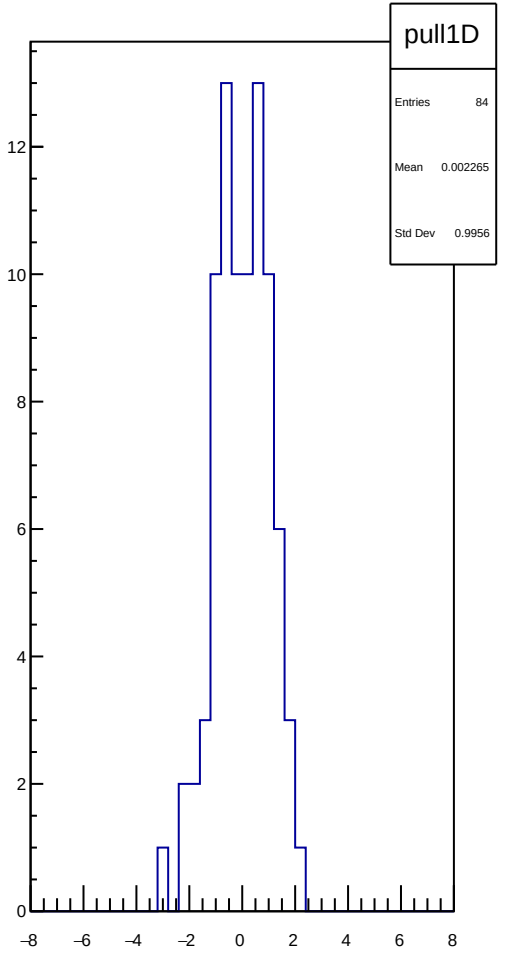

pull1D
Entries 84
Mean 0.004737
Std Dev 1.074

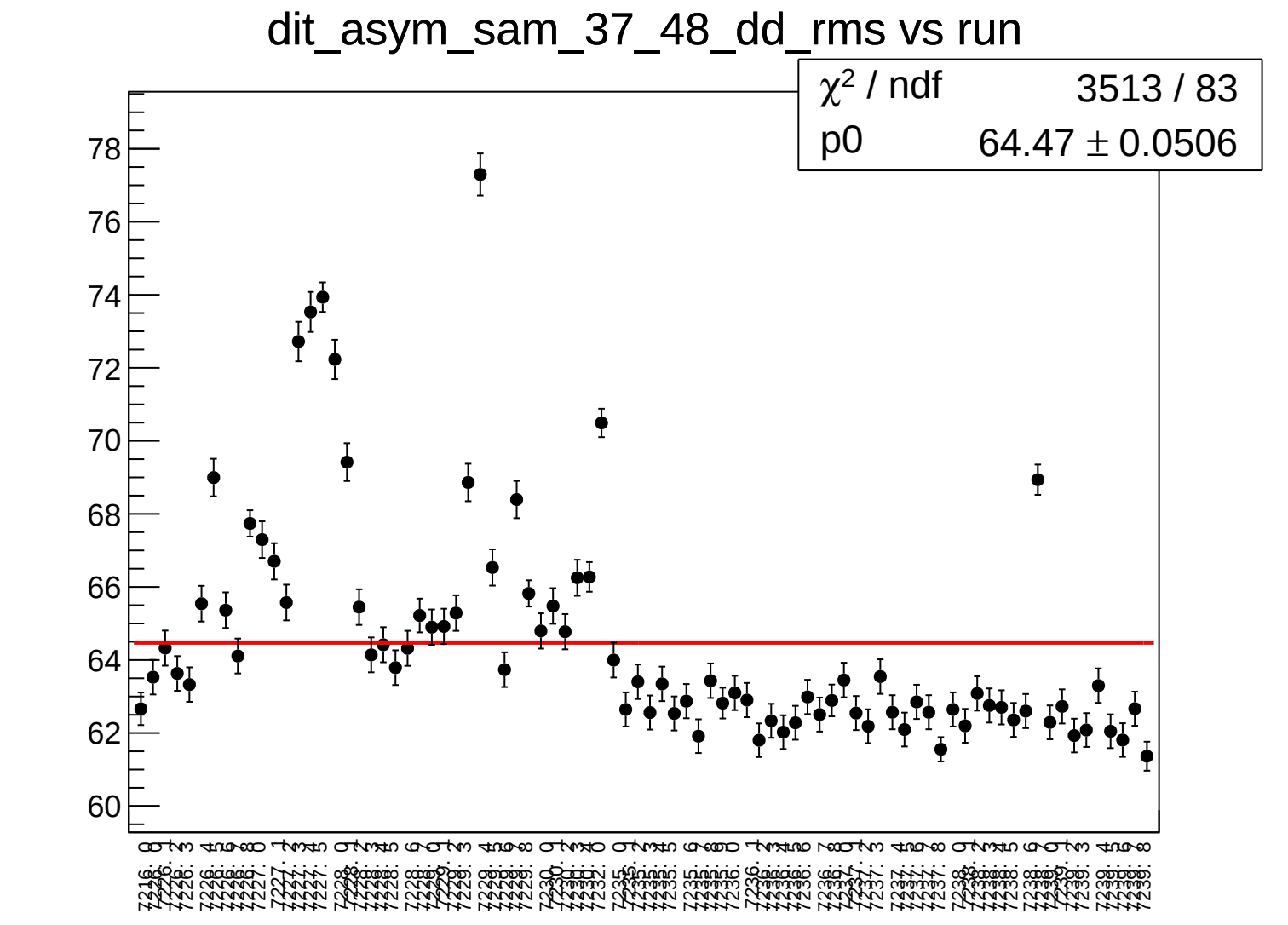

eigen_cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 1903 / 83
p0 59.5 ± 0.04668
68
66
64
62
60
58
56

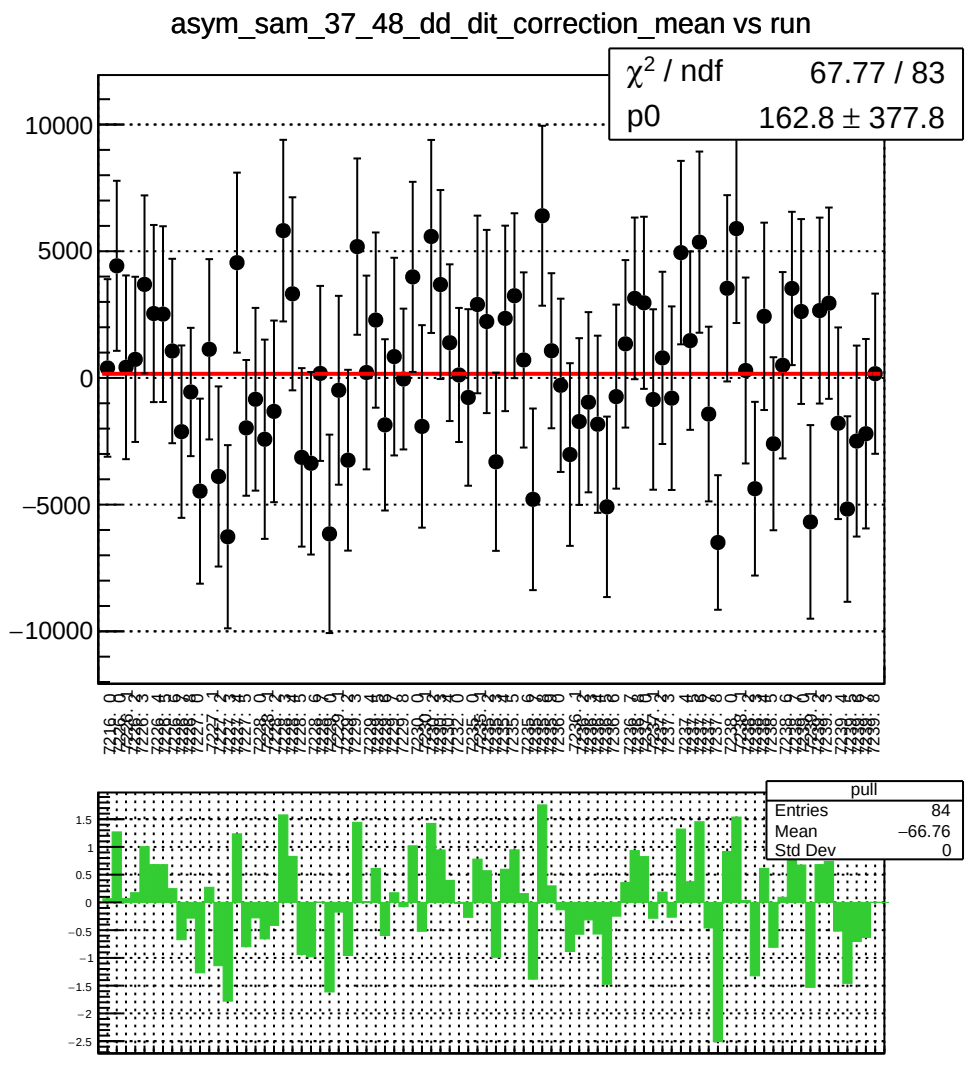

asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 69.13 / 83
p0 136 ± 360.5
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −166.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 84
Mean 0.004936
Std Dev 0.9072
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

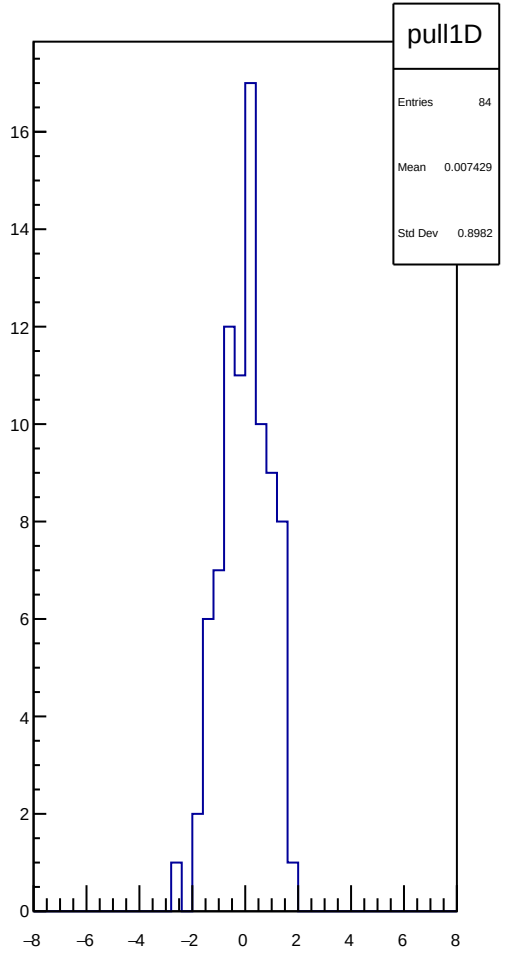

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 3665 / 83
p0 324.7 ± 0.2549
370
360
350
340
330
320
310
300
290
280

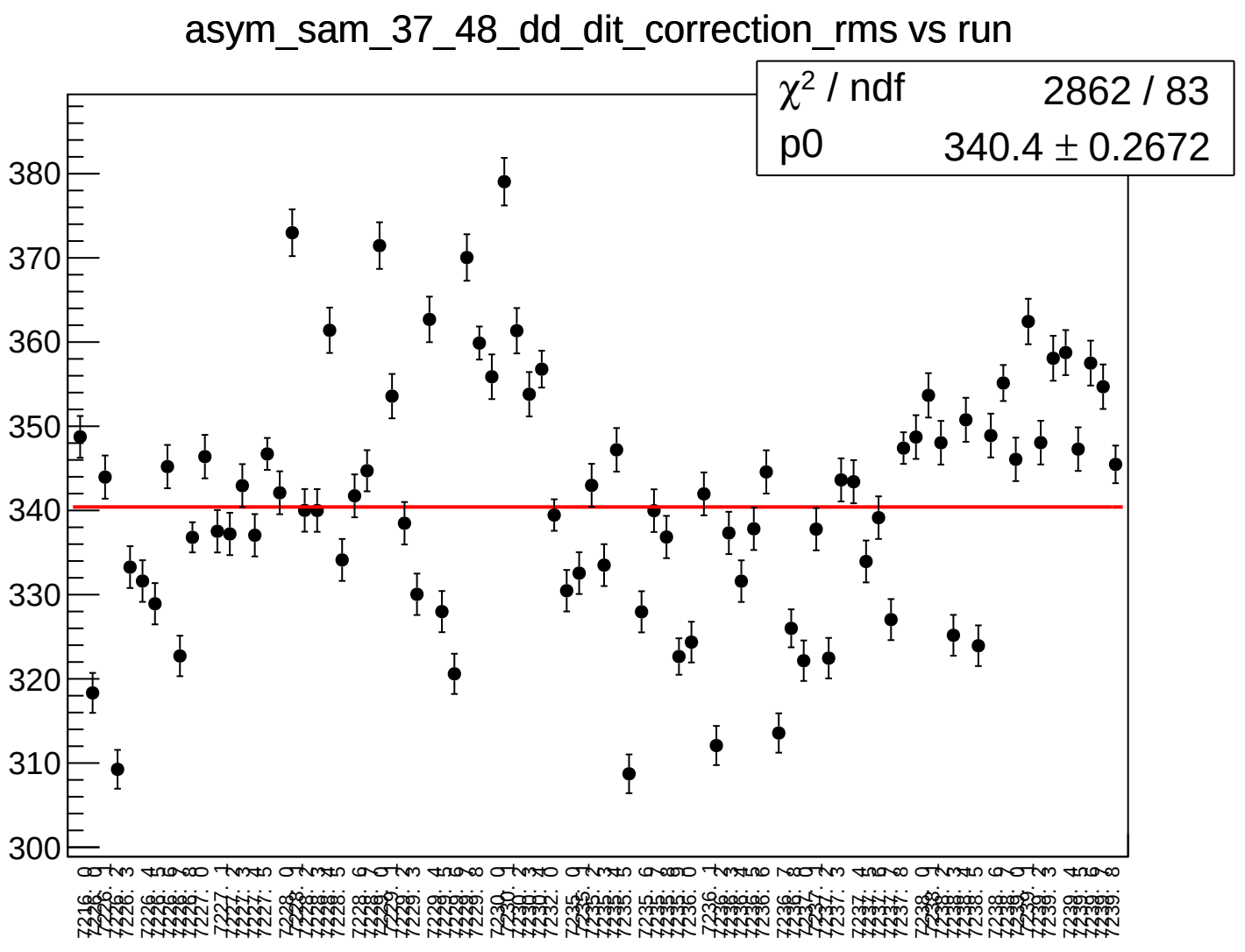

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 83.26 / 83
p0 184.2 ± 71.56
2000
1000
0
−1000
−2000
pull
Entries 84
Mean 2999
Std Dev 0
2
1
0
−1
−2
−3

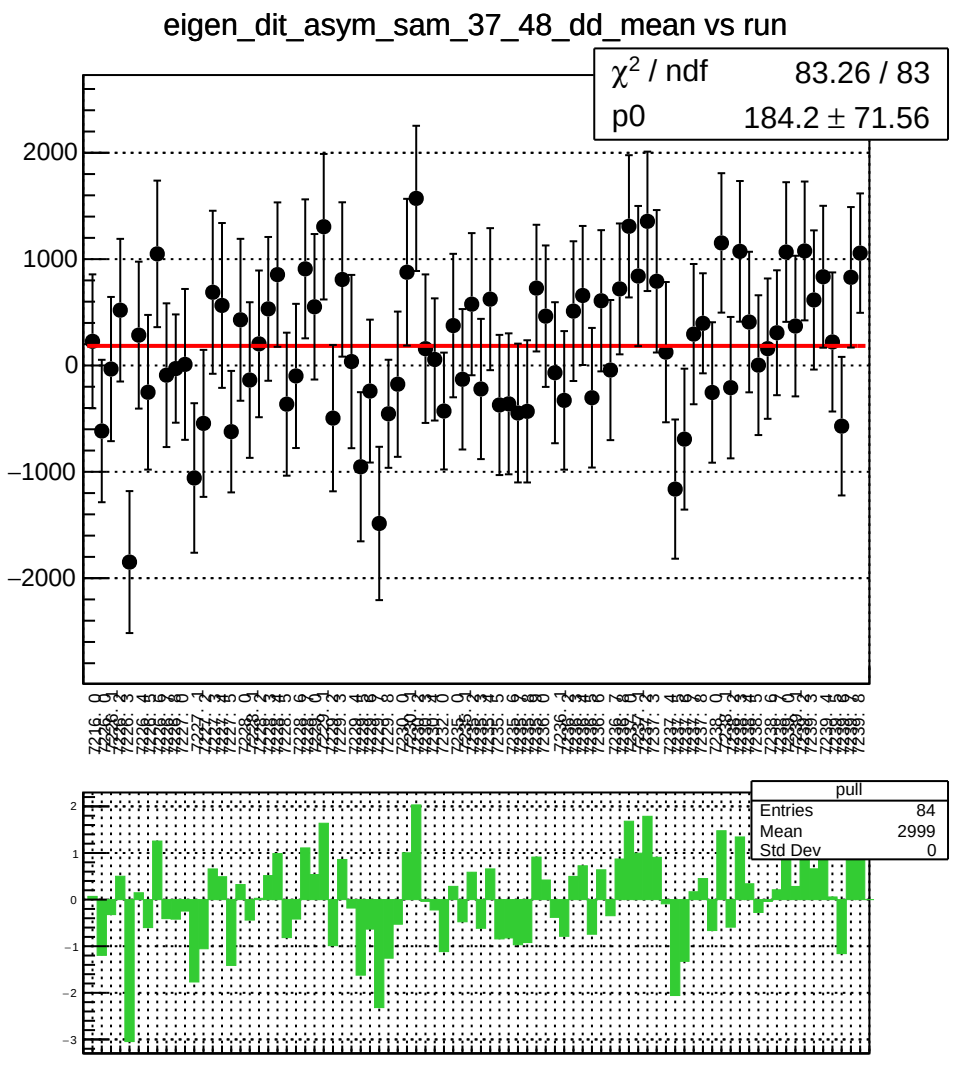

pull1D
Entries 84
Mean 0.002265
Std Dev 0.9956
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

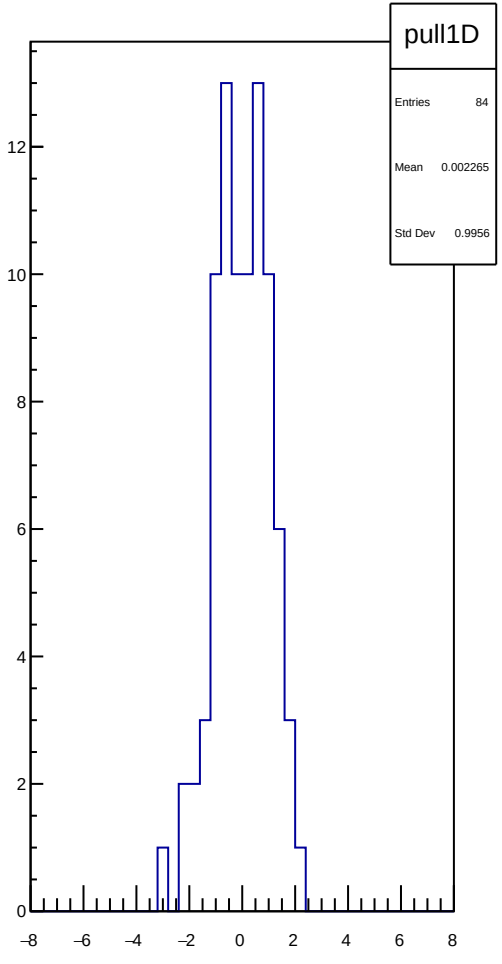

dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 3513 / 83
p0 64.47 ± 0.0506
78
76
74
72
70
68
66
64
62
60

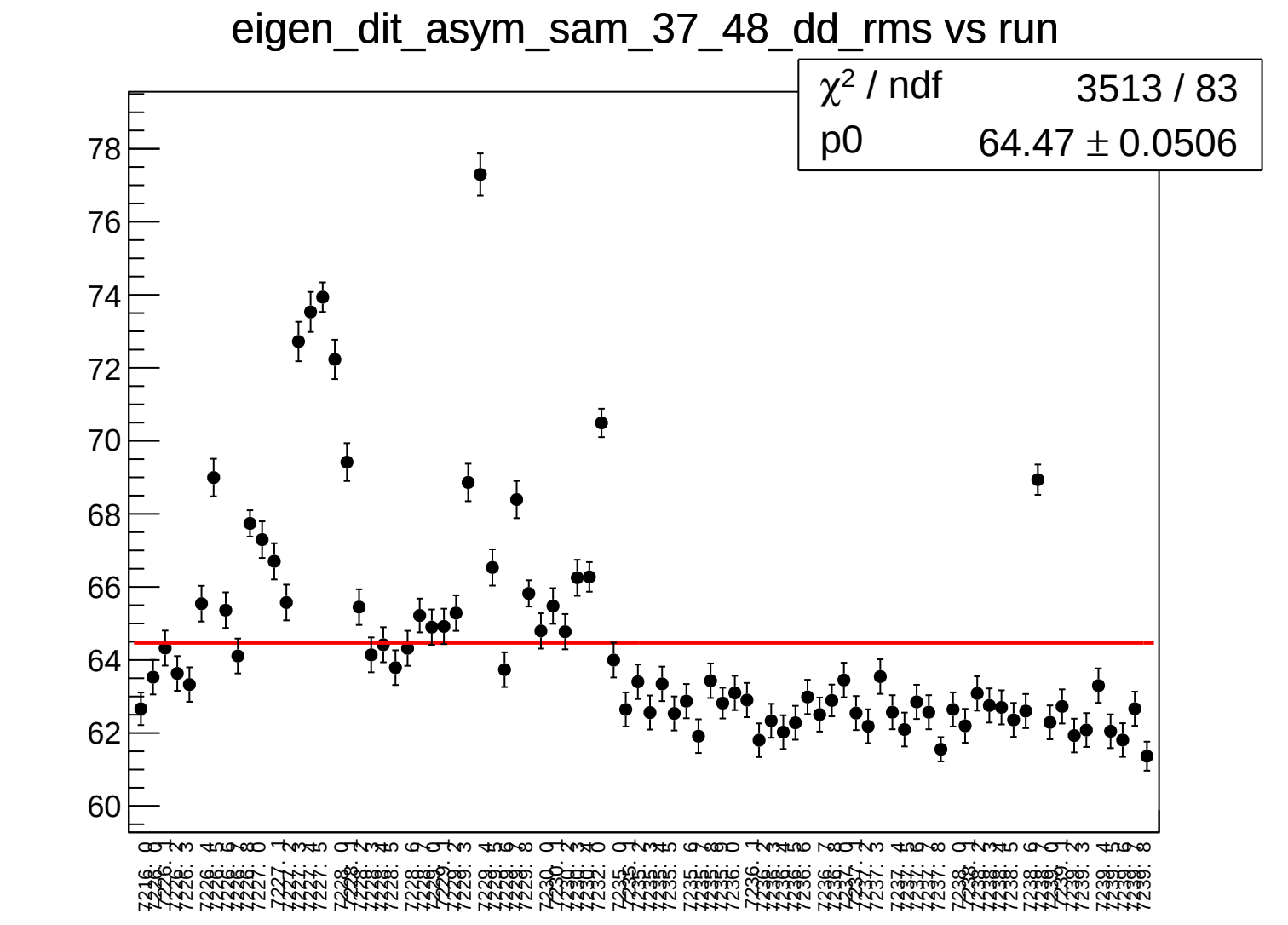

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 67.77 / 83
p0 162.8 ± 377.8
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −66.76
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

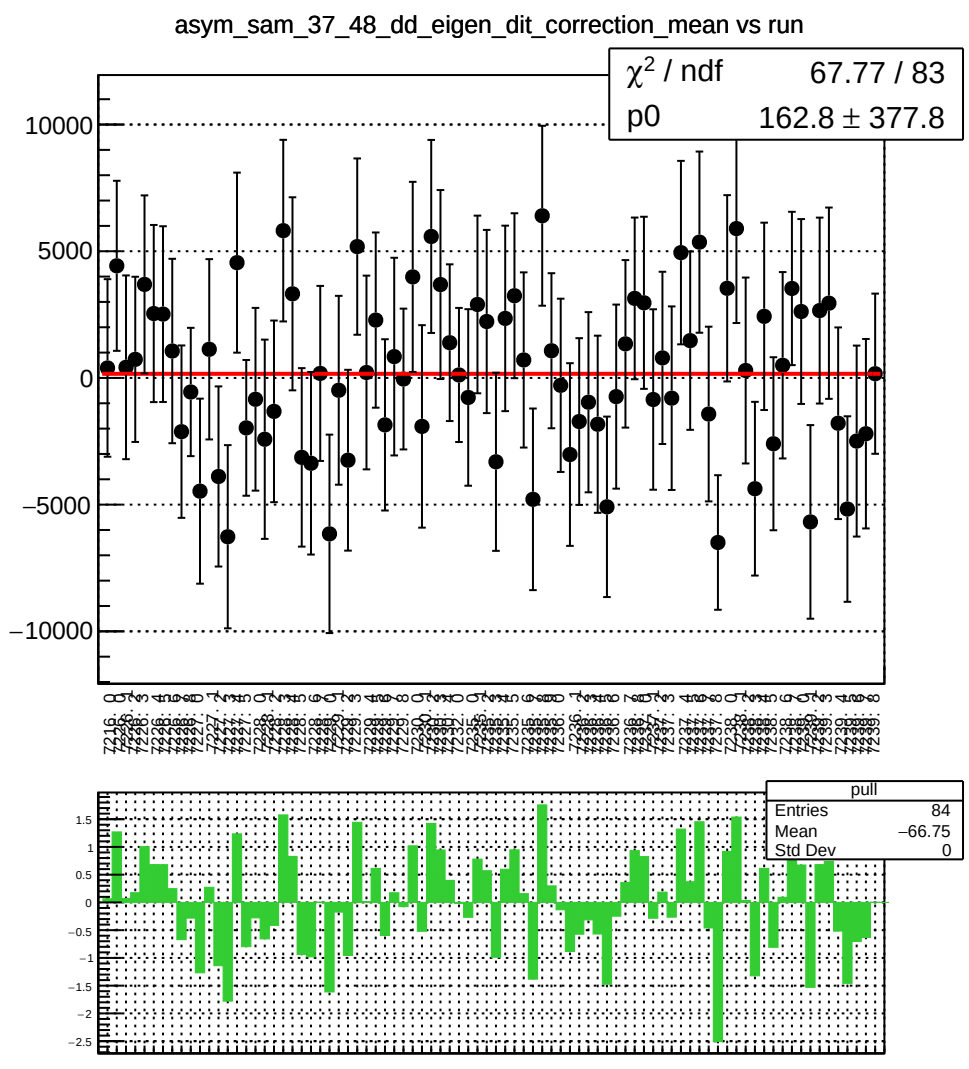

pull1D
Entries 84
Mean 0.007429
Std Dev 0.8982
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

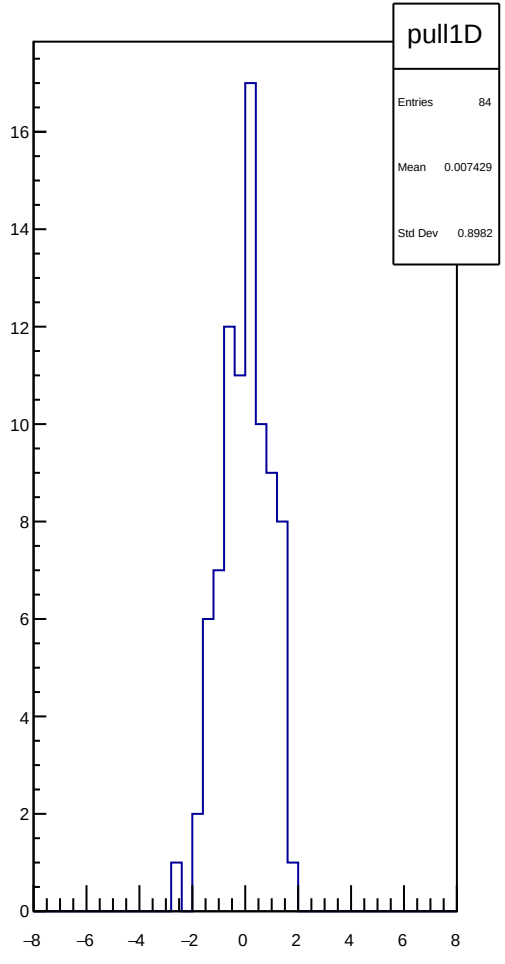

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 2862 / 83
p0 340.4 ± 0.2672
380
370
360
350
340
330
320
310
300

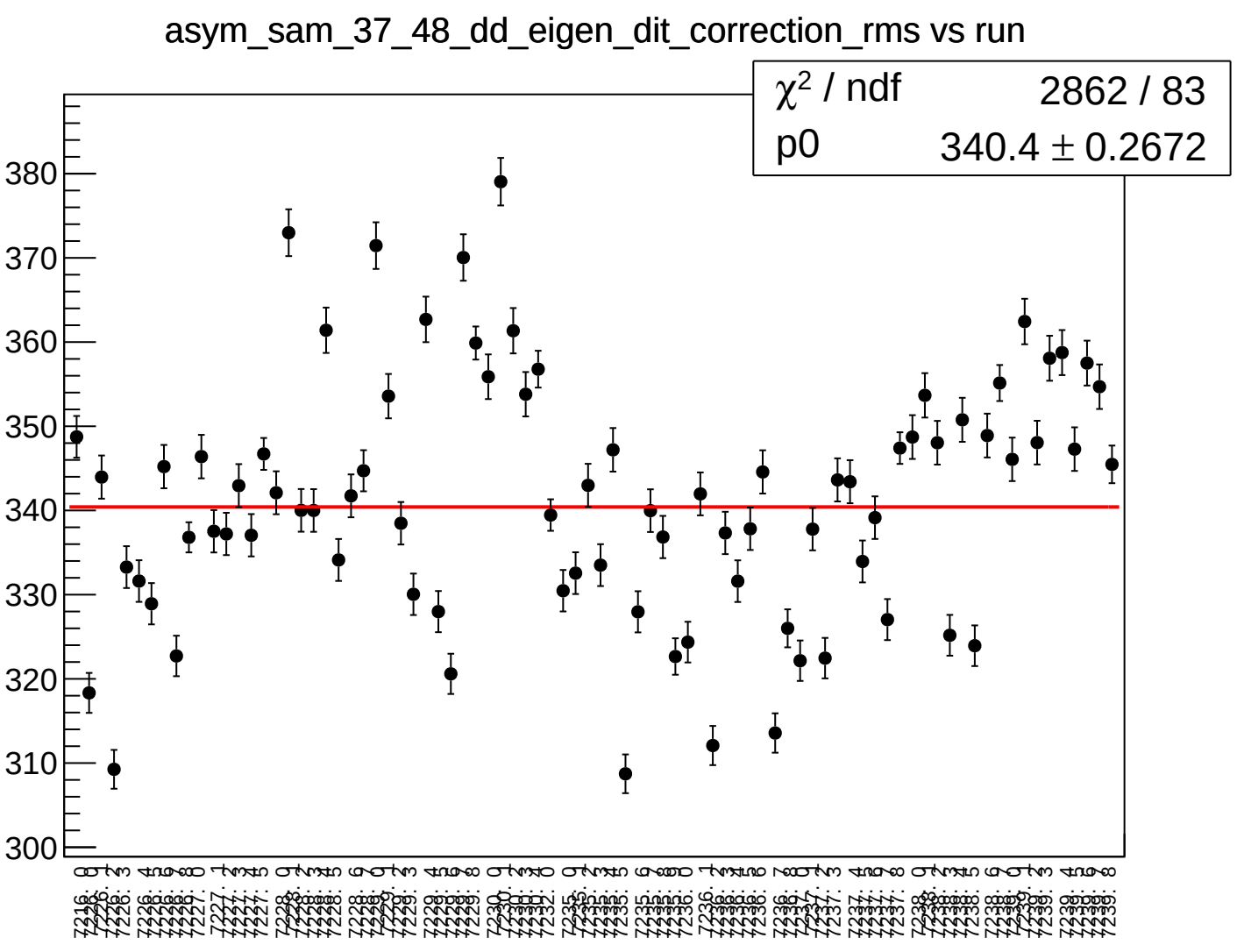

eigen_dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 83.26 / 83
p0 184.2 ± 71.56
2000
1000
0
−1000
−2000
pull
Entries 84
Mean 2999
Std Dev 0
2
1
0
−1
−2
−3

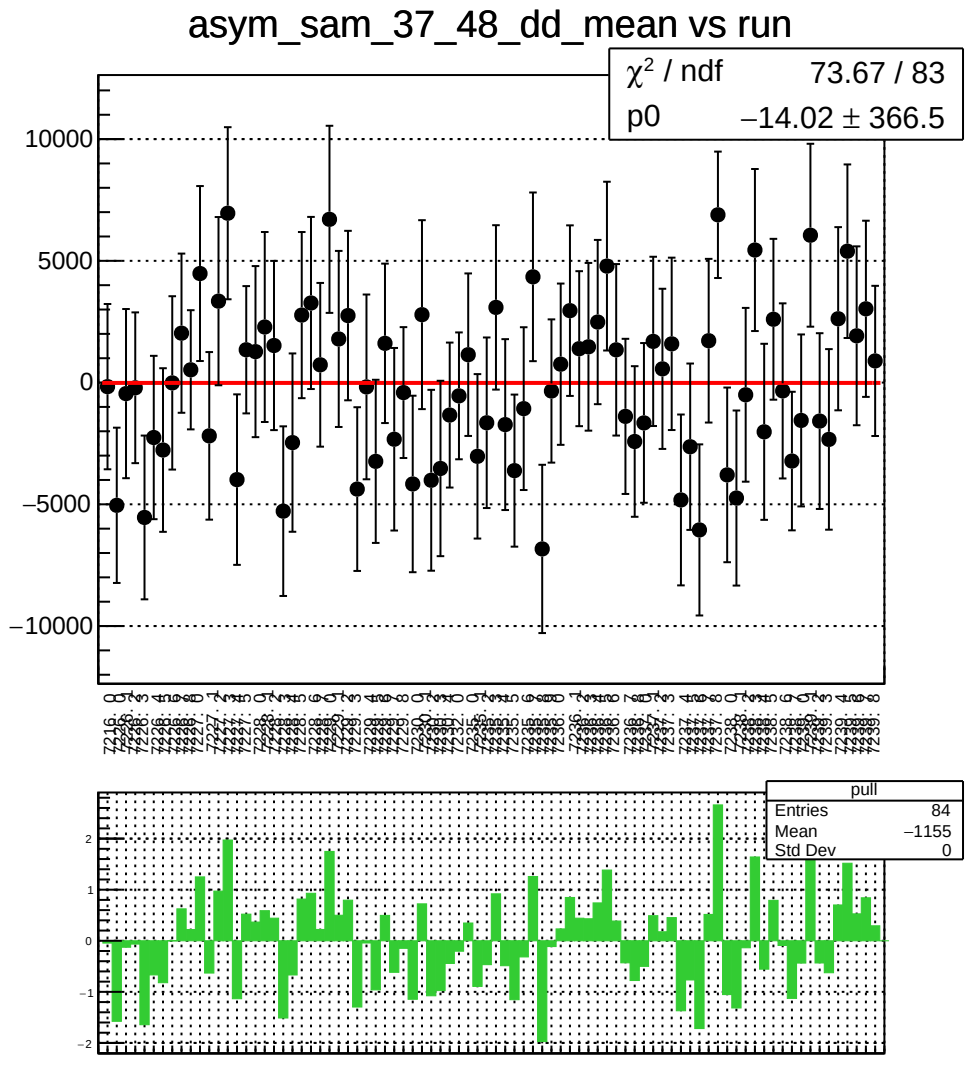

pull1D
Entries 84
Mean 0.002265
Std Dev 0.9956
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

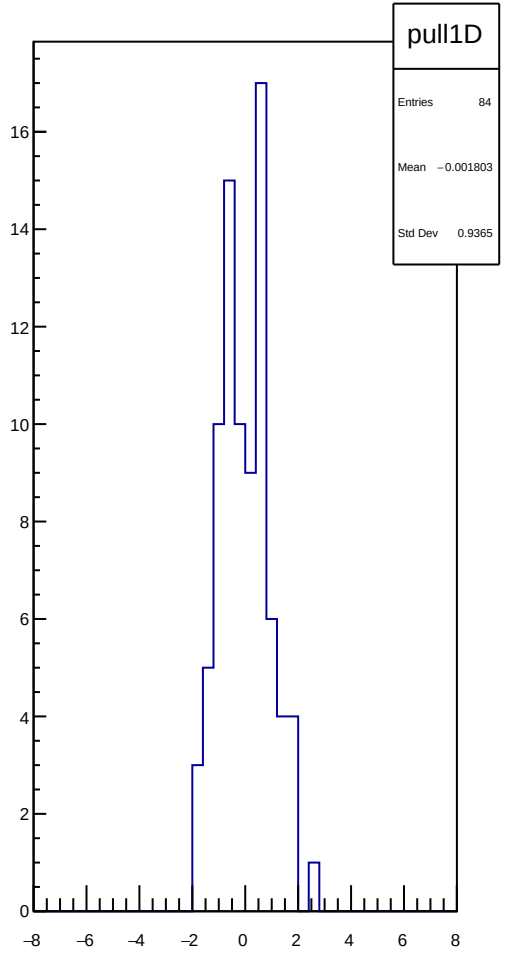

eigen_dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 3513 / 83
p0 64.47 ± 0.0506
78
76
74
72
70
68
66
64
62
60

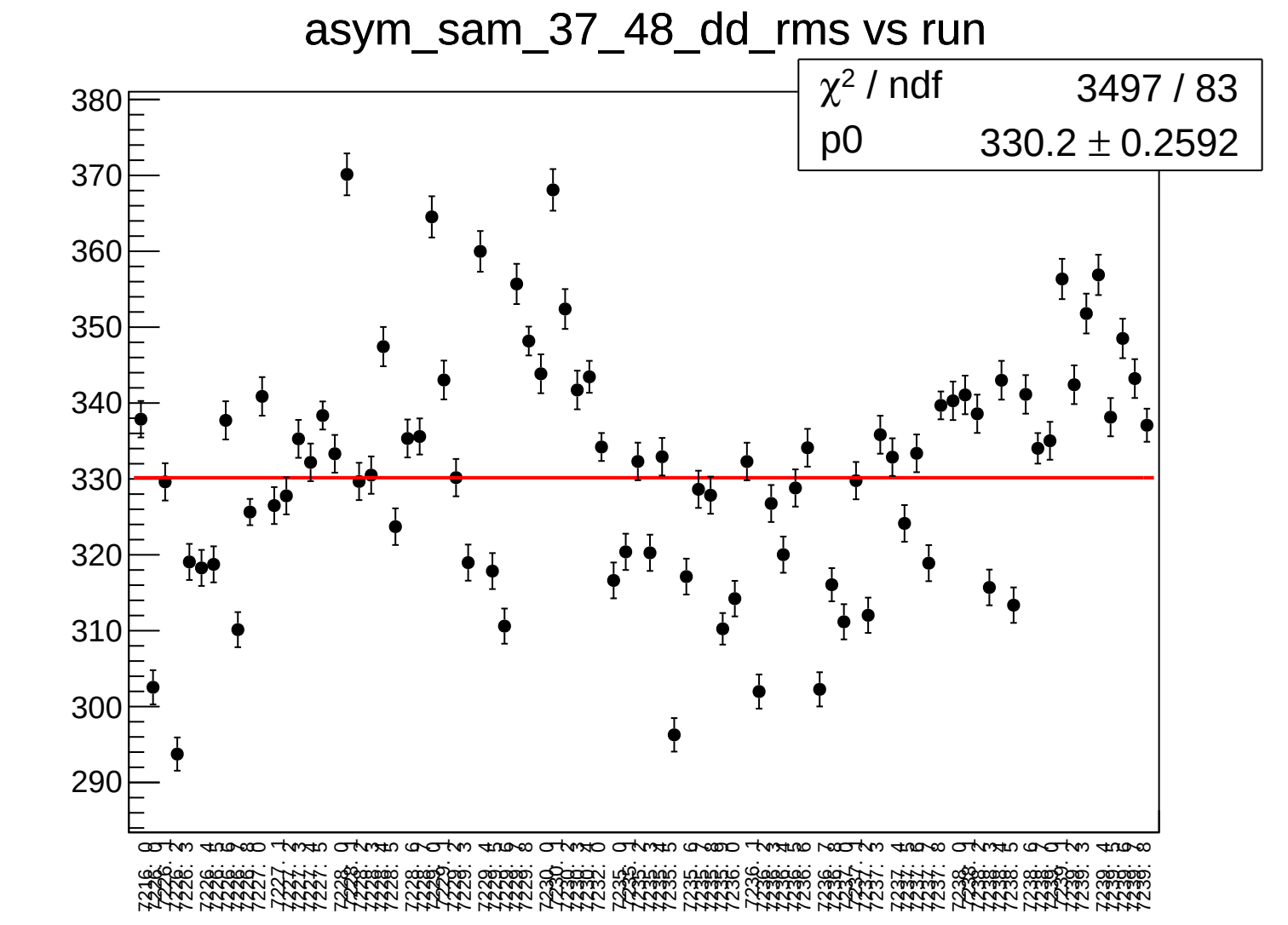

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 67.77 / 83
p0 162.8 ± 377.8
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −66.75
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

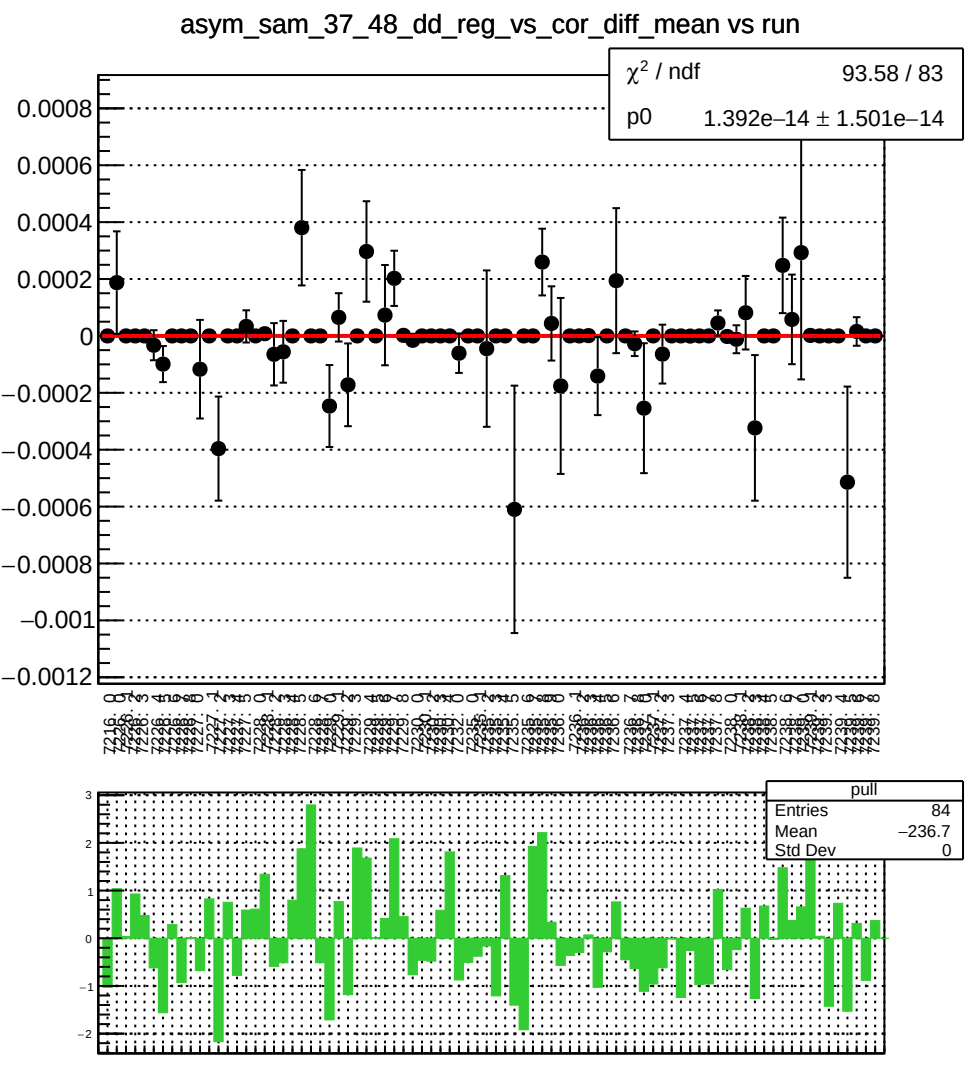

pull1D
Entries 84
Mean 0.007429
Std Dev 0.8982
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

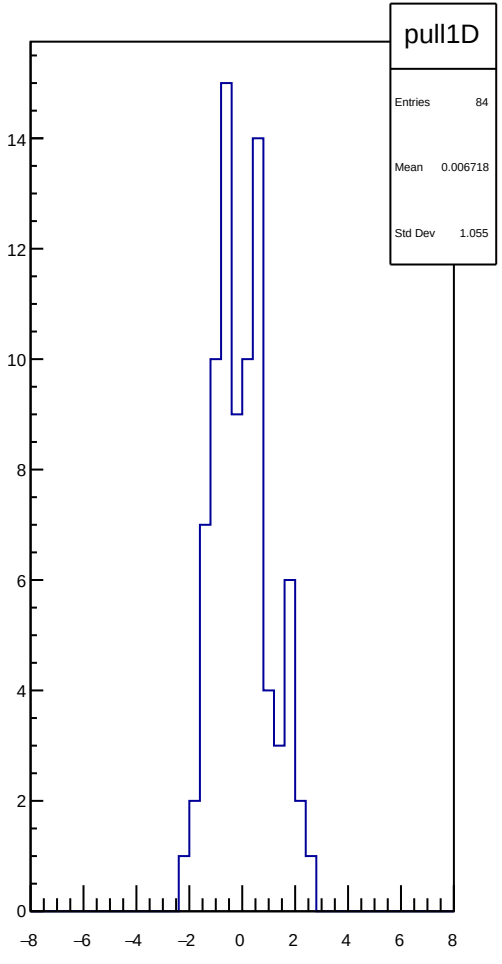

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 2862 / 83
p0 340.4 ± 0.2672
380
370
360
350
340
330
320
310
300

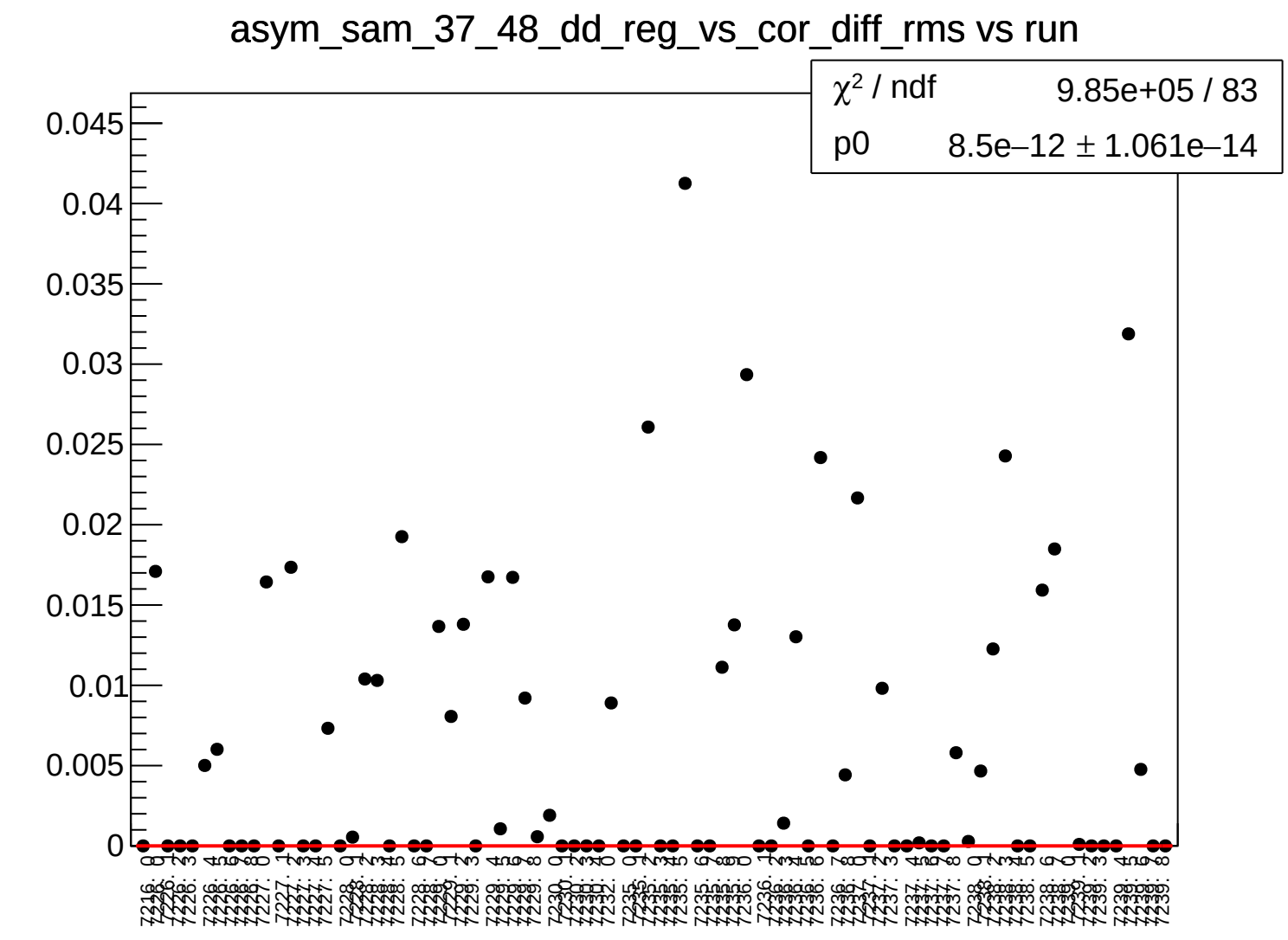

asym_sam_37_48_dd_mean vs run
χ² / ndf 73.67 / 83
p0 −14.02 ± 366.5
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −1155
Std Dev 0
2
1
0
−1
−2

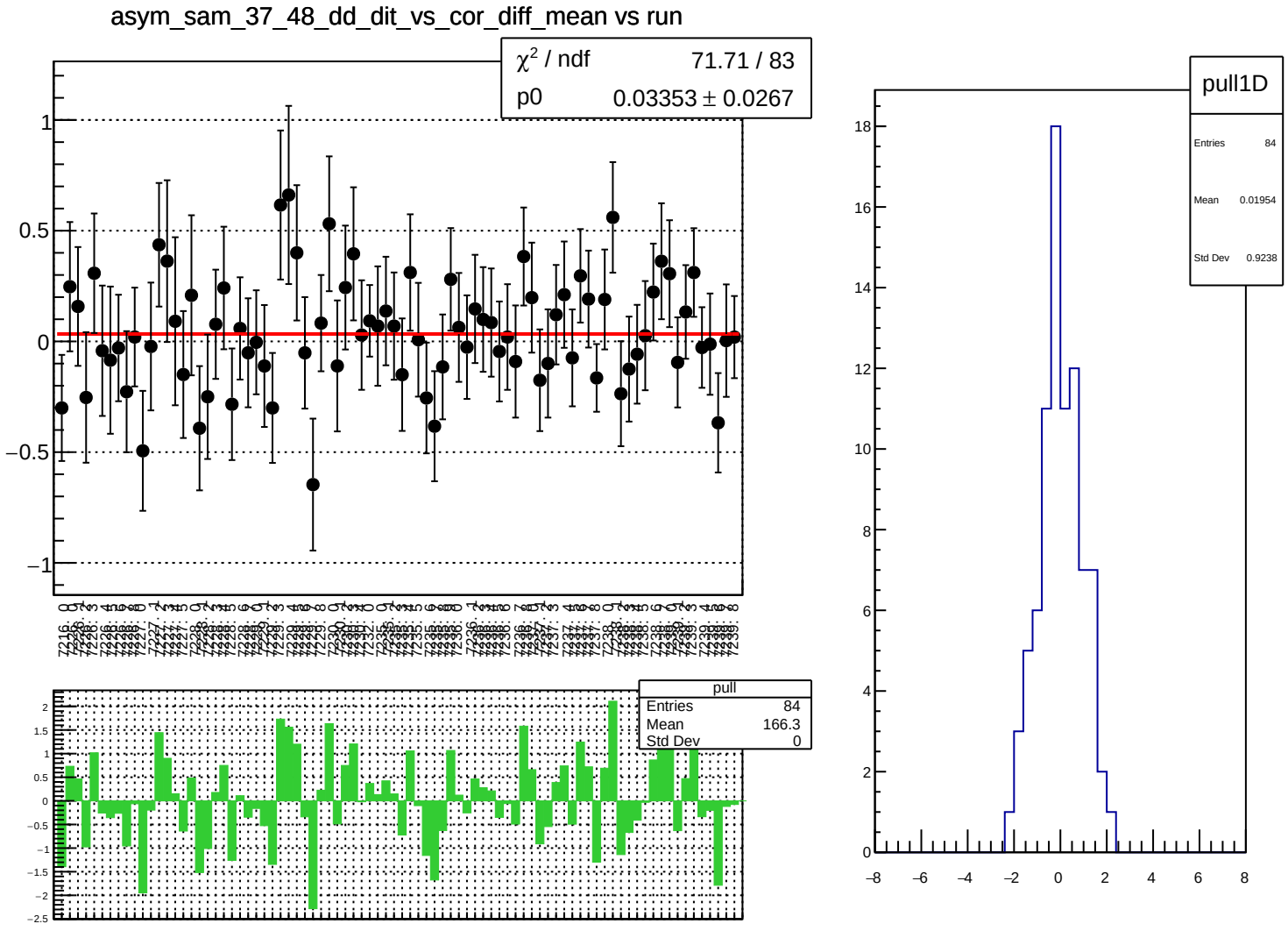

pull1D
Entries 84
Mean −0.001803
Std Dev 0.9365
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

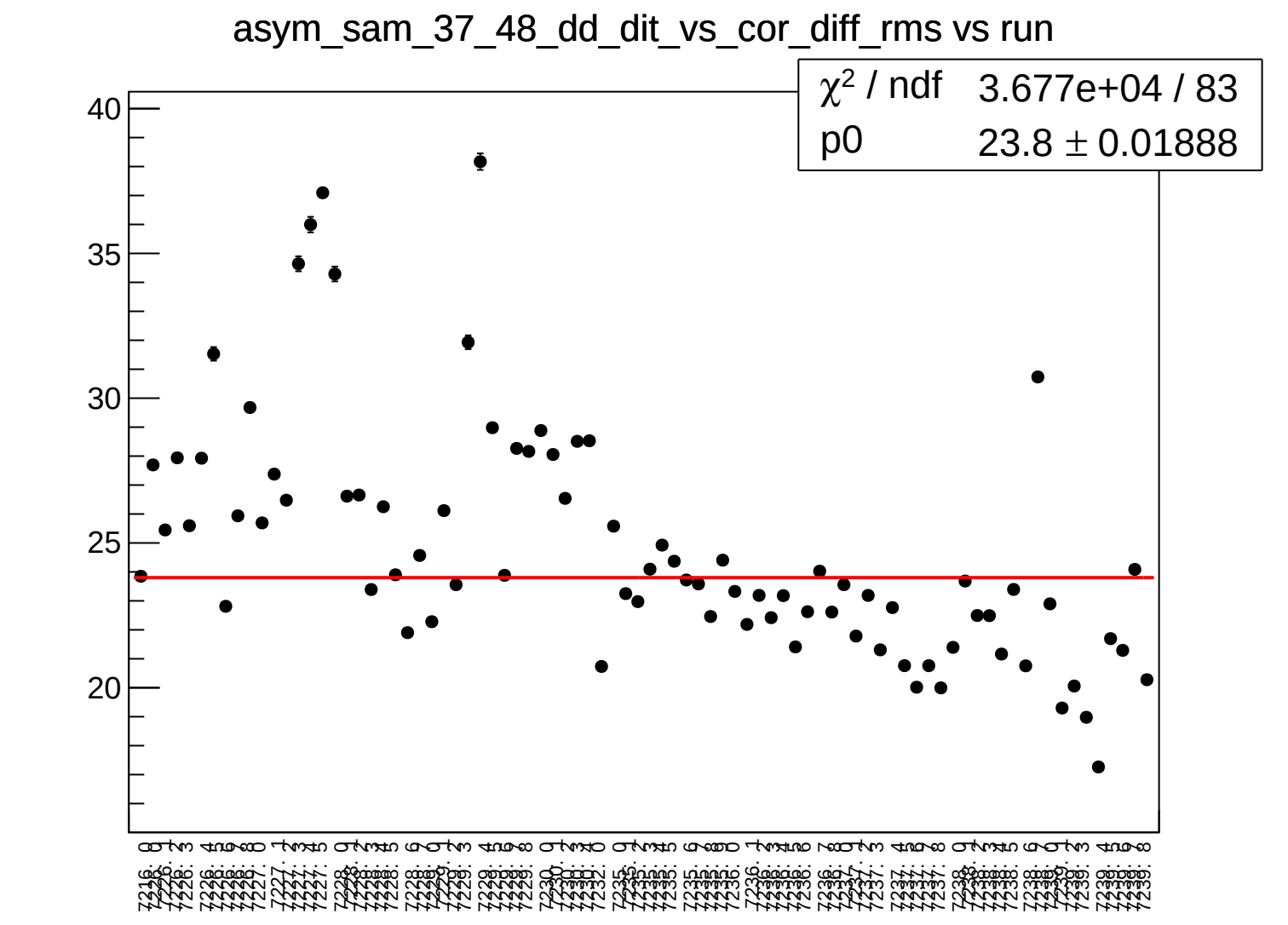

asym_sam_37_48_dd_rms vs run
χ² / ndf 3497 / 83
p0 330.2 ± 0.2592
380
370
360
350
340
330
320
310
300
290

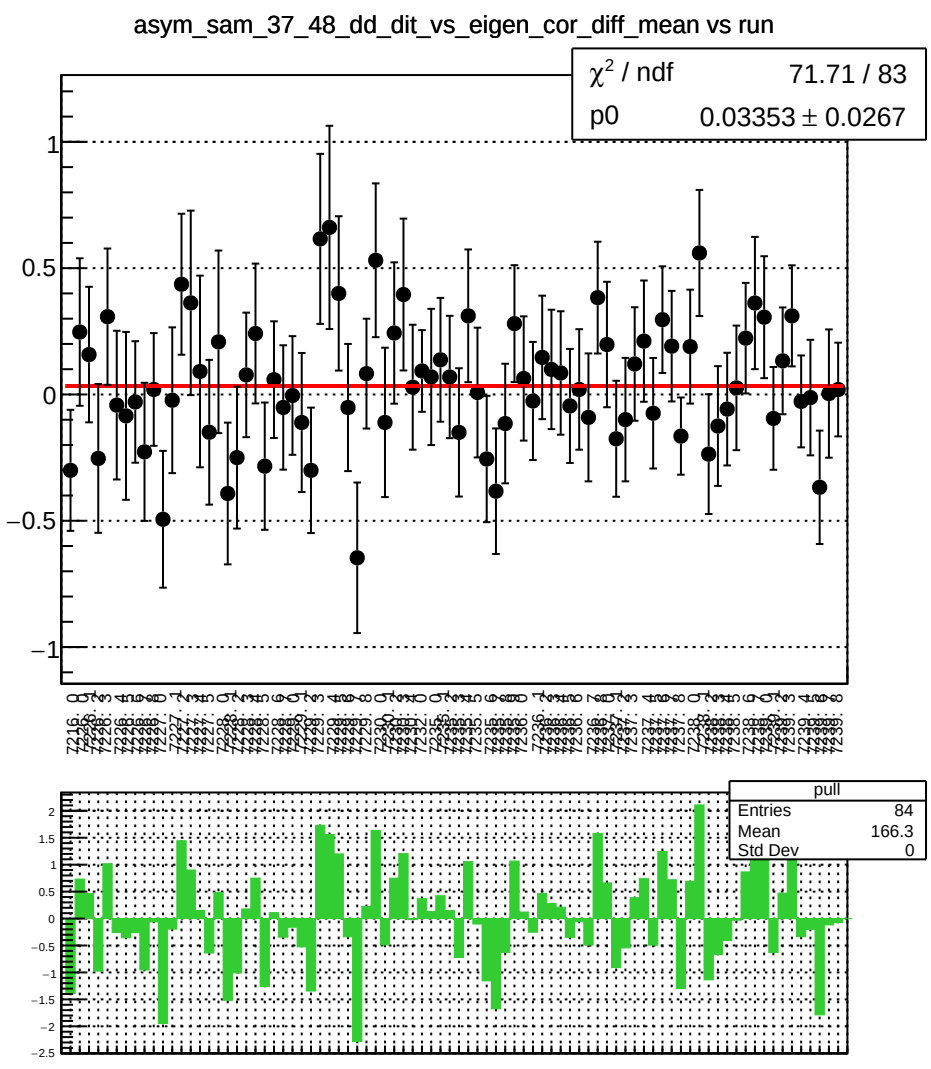

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 93.58 / 83
p0 1.392e−14 ± 1.501e−14
pull
Entries 84
Mean −236.7
Std Dev 0

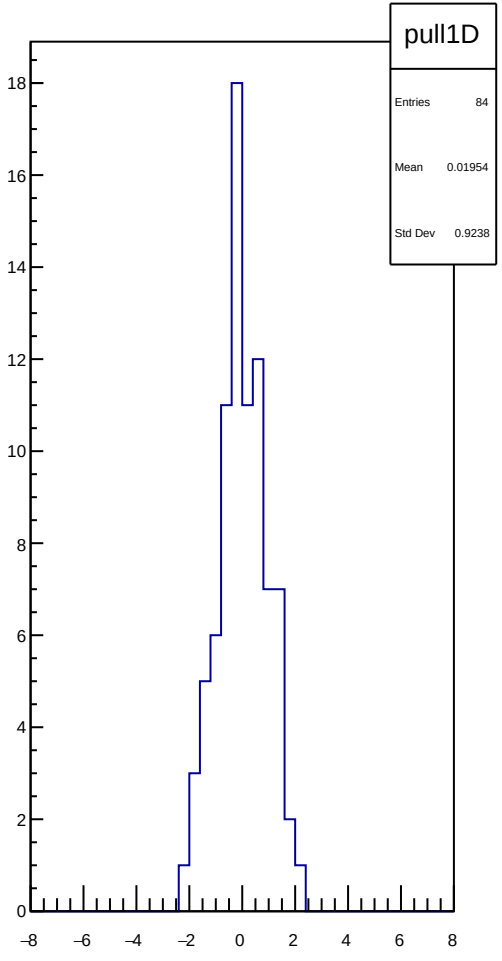

pull1D
Entries 84
Mean 0.006718
Std Dev 1.055

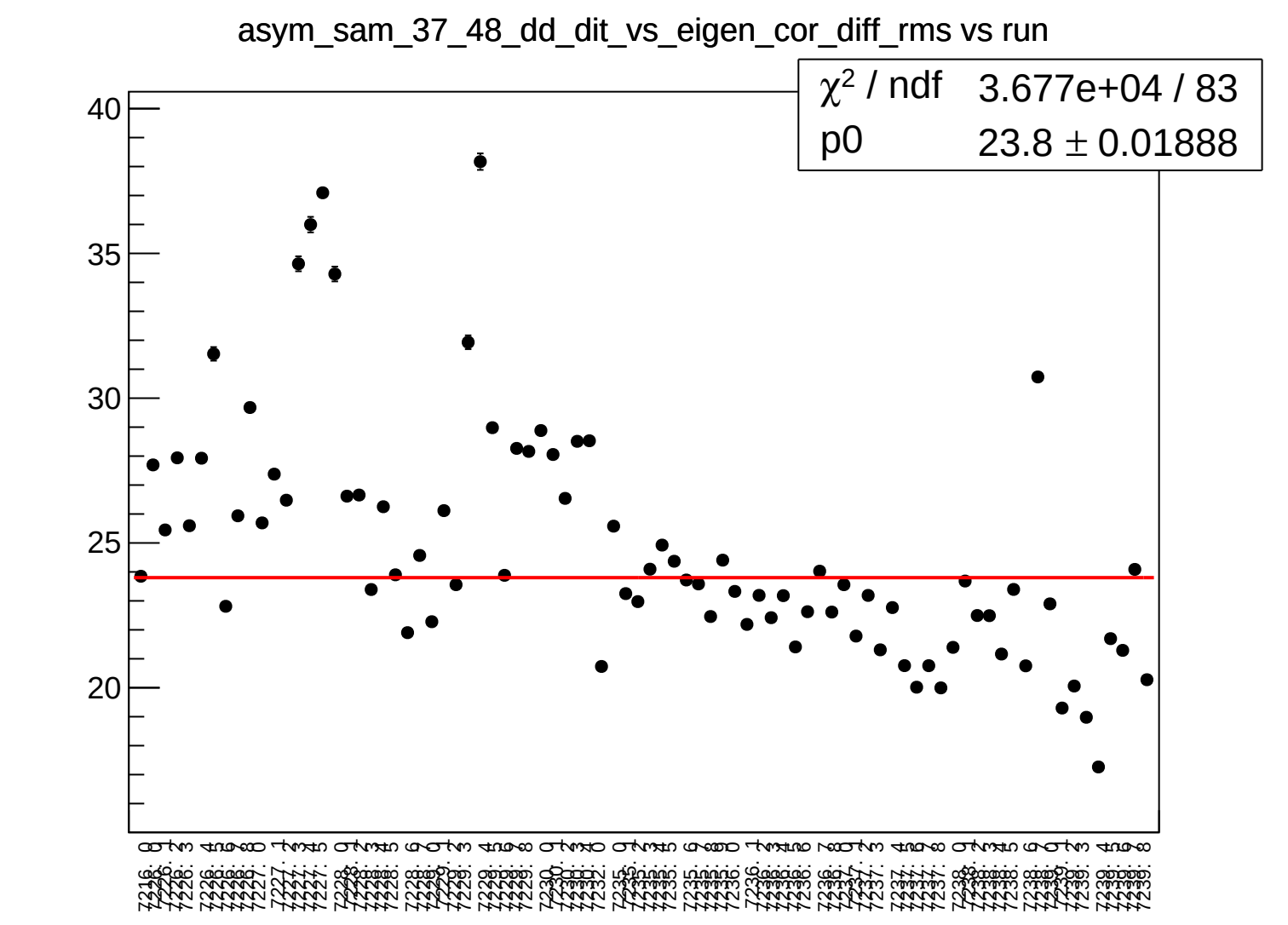

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.85e+05 / 83
p0 8.5e−12 ± 1.061e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

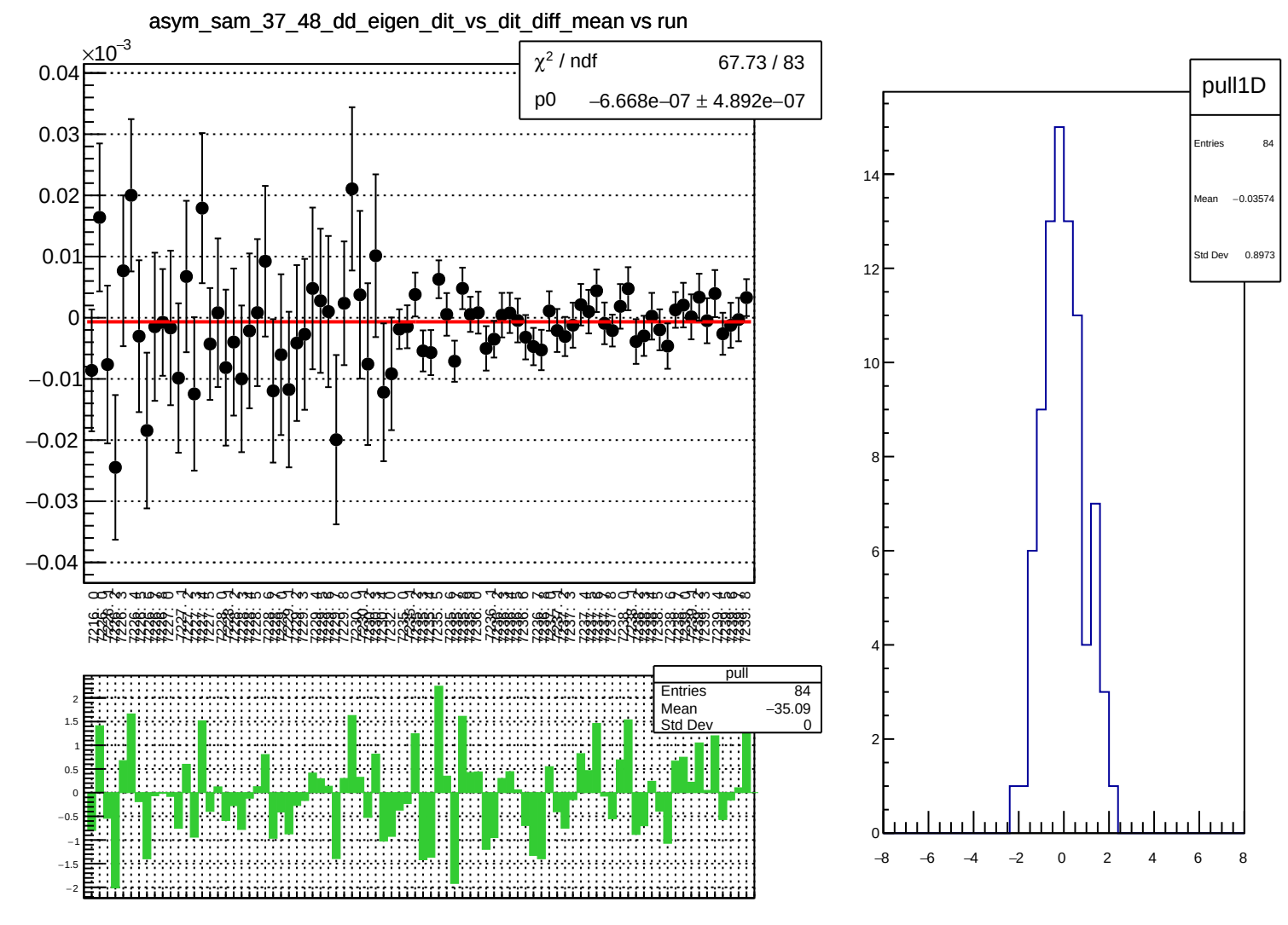

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 71.71 / 83
p0 0.03353 ± 0.0267
pull
Entries 84
Mean 166.3
Std Dev 0
pull1D
Entries 84
Mean 0.01954
Std Dev 0.9238

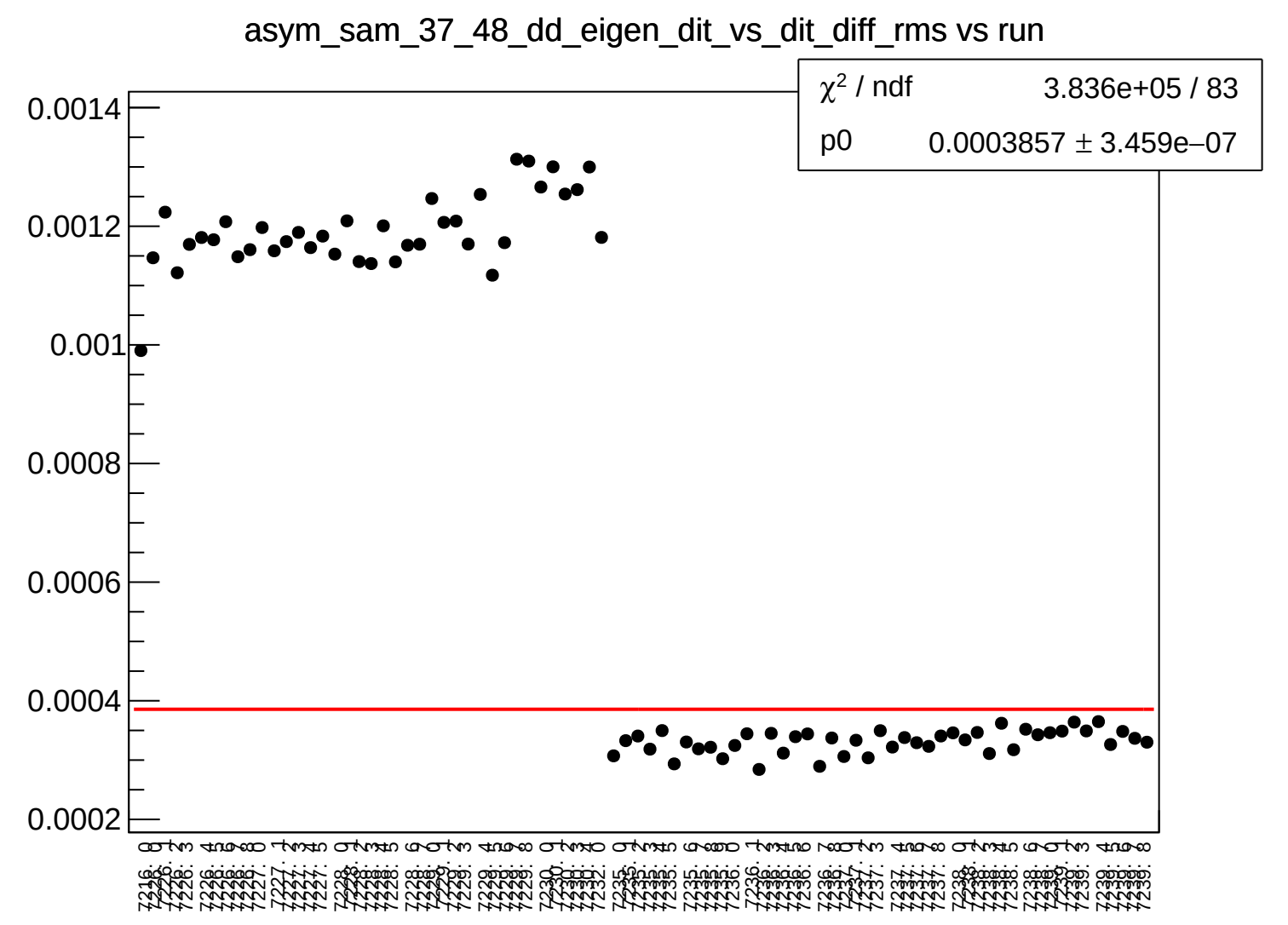

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.677e+04 / 83
p0 23.8 ± 0.01888
40
35
30
25
20

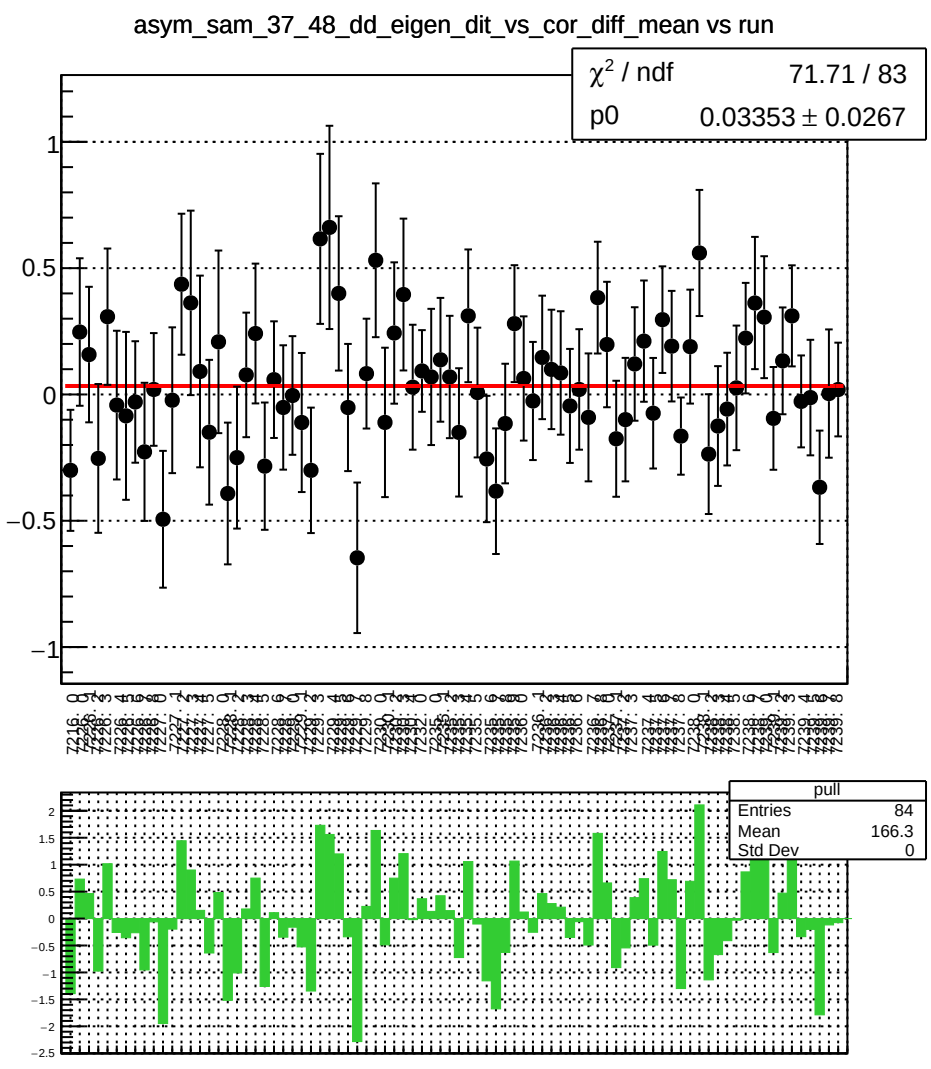

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.71 / 83
p0 0.03353 ± 0.0267
pull
Entries 84
Mean 166.3
Std Dev 0

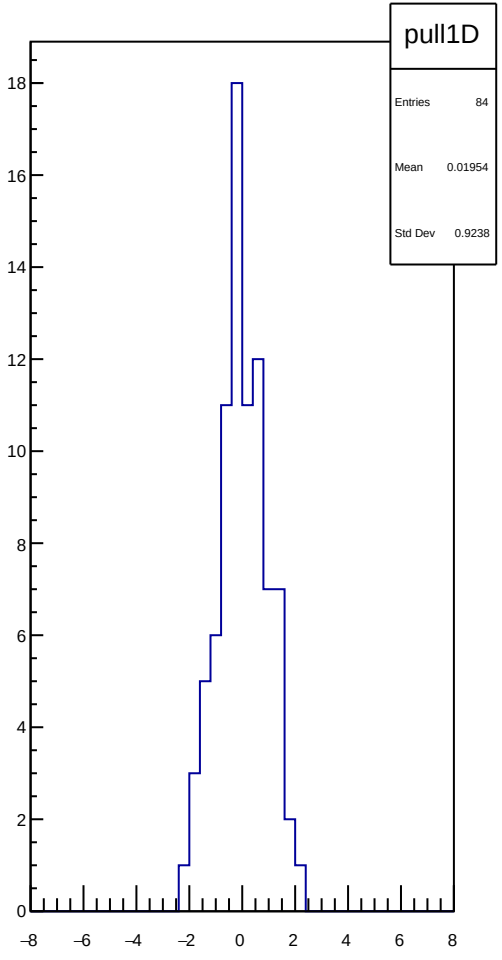

pull1D
Entries 84
Mean 0.01954
Std Dev 0.9238

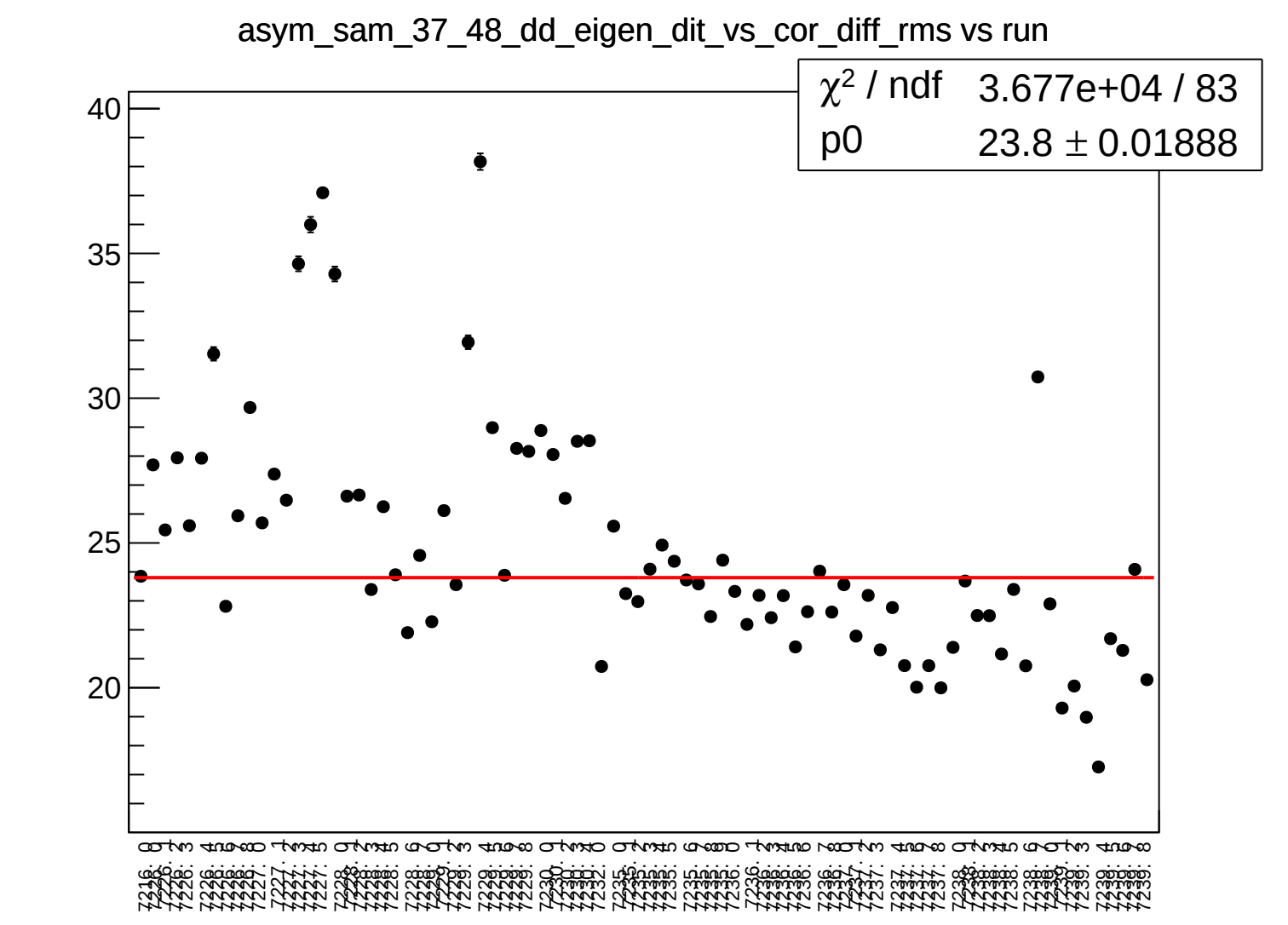

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.677e+04 / 83
p0 23.8 ± 0.01888
40
35
30
25
20


asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 67.73 / 83
p0 −6.668e−07 ± 4.892e−07
pull
Entries 84
Mean −35.09
Std Dev 0
pull1D
Entries 84
Mean −0.03574
Std Dev 0.8973

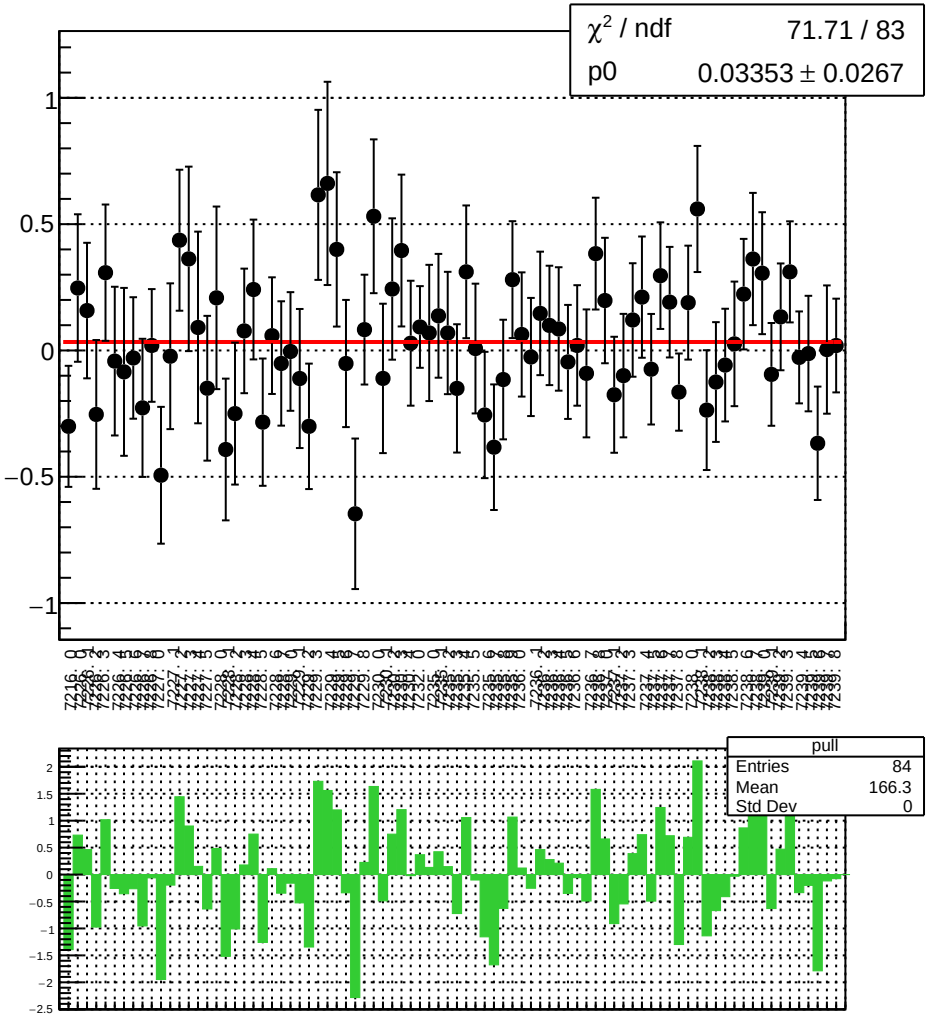

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.836e+05 / 83
p0 0.0003857 ± 3.459e−07
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

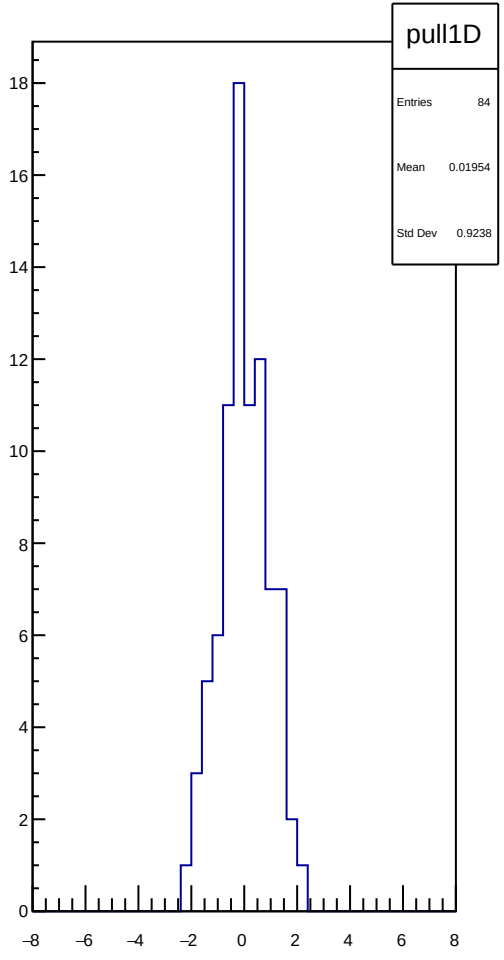

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.71 / 83
p0 0.03353 ± 0.0267
pull
Entries 84
Mean 166.3
Std Dev 0

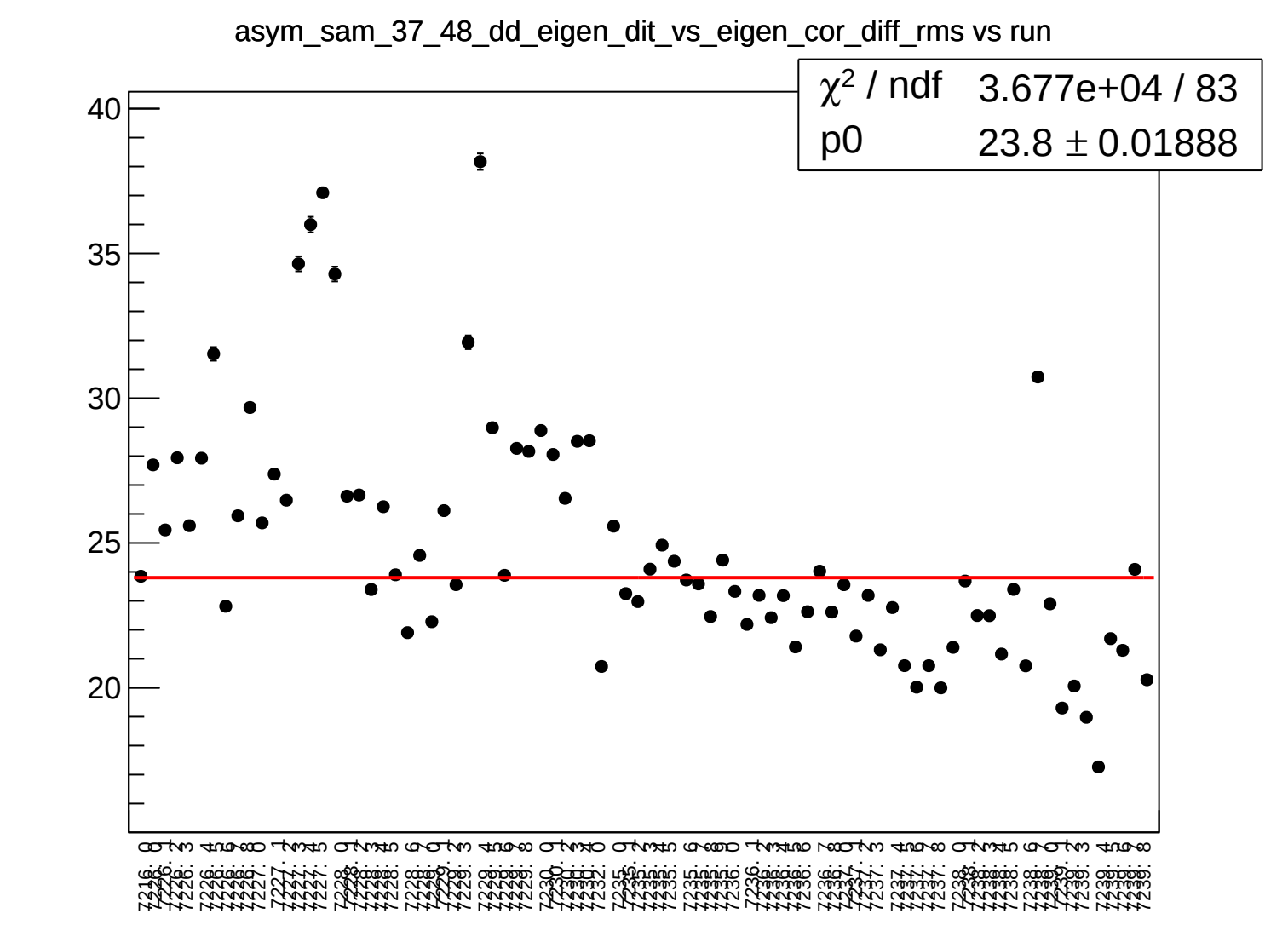

pull1D
Entries 84
Mean 0.01954
Std Dev 0.9238

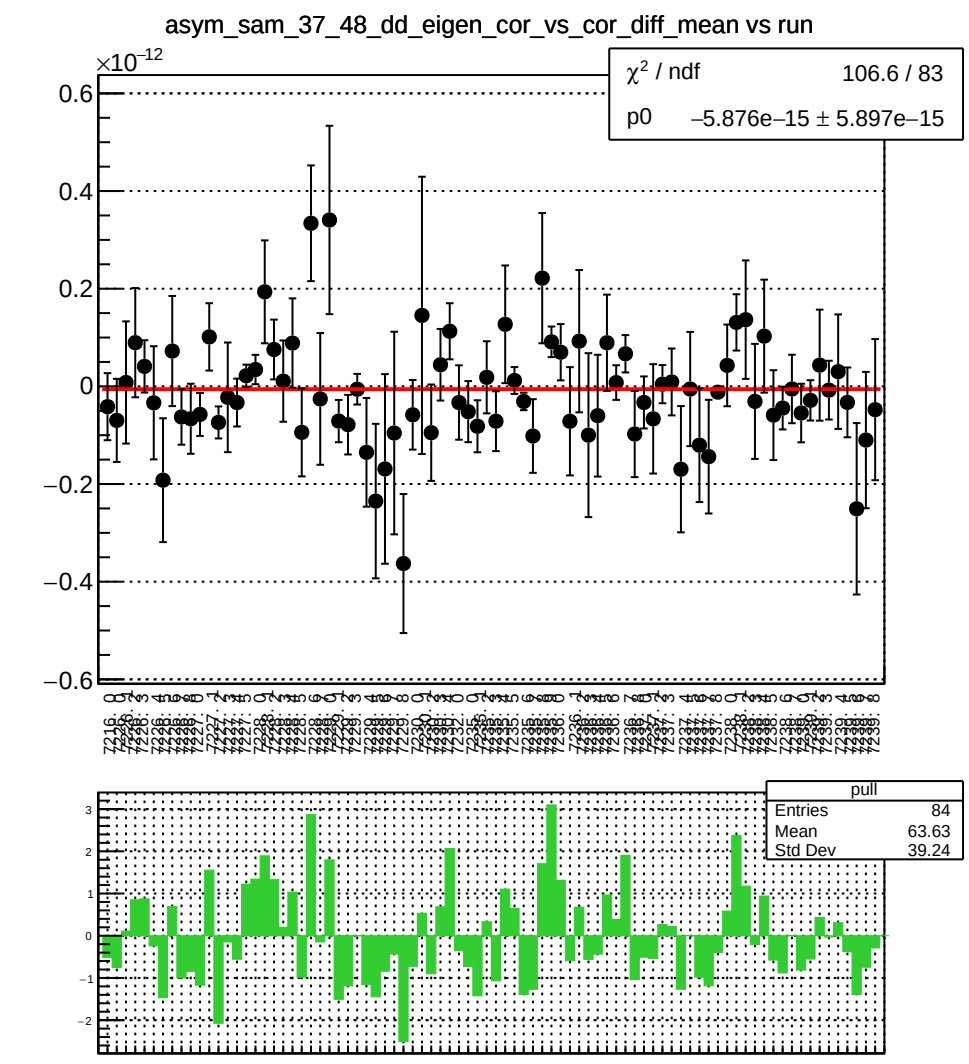

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.677e+04 / 83
p0 23.8 ± 0.01888
40
35
30
25
20

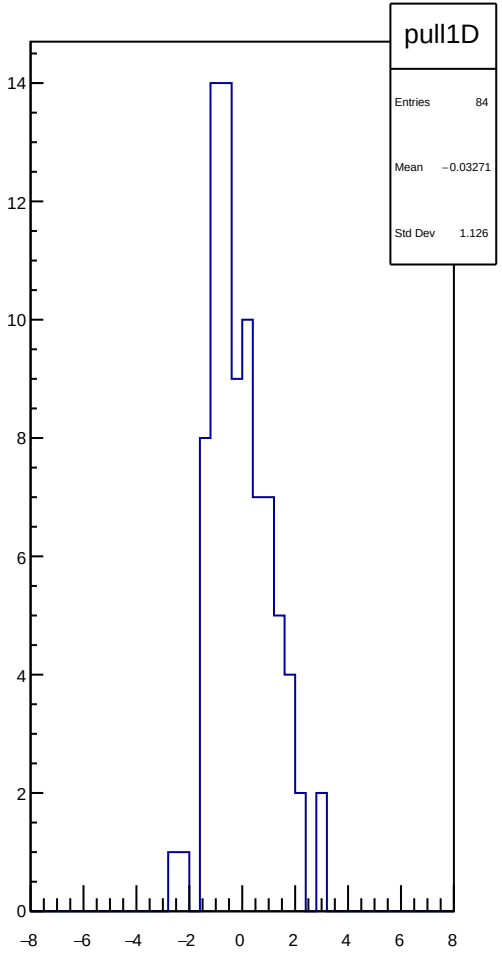
asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

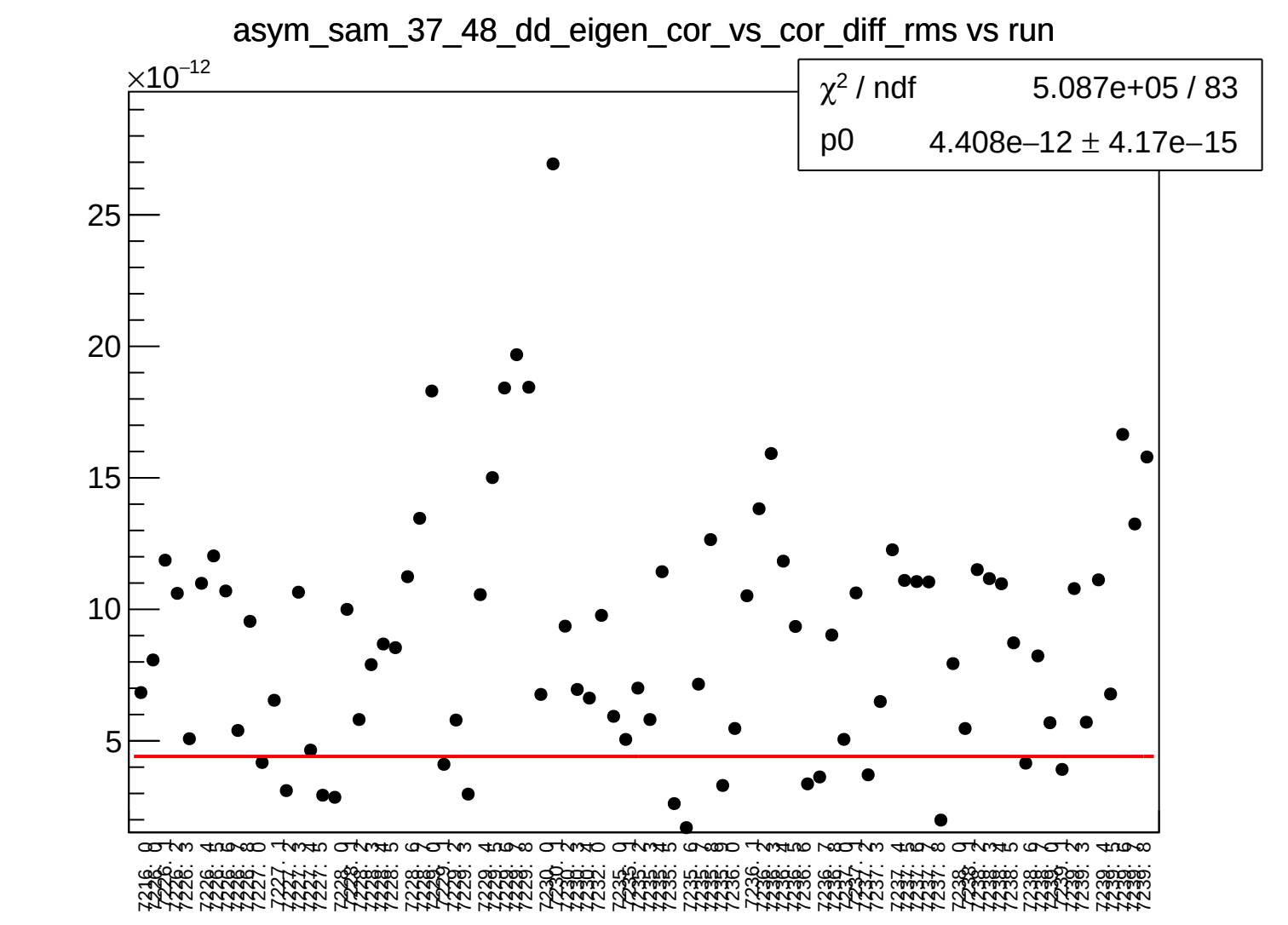


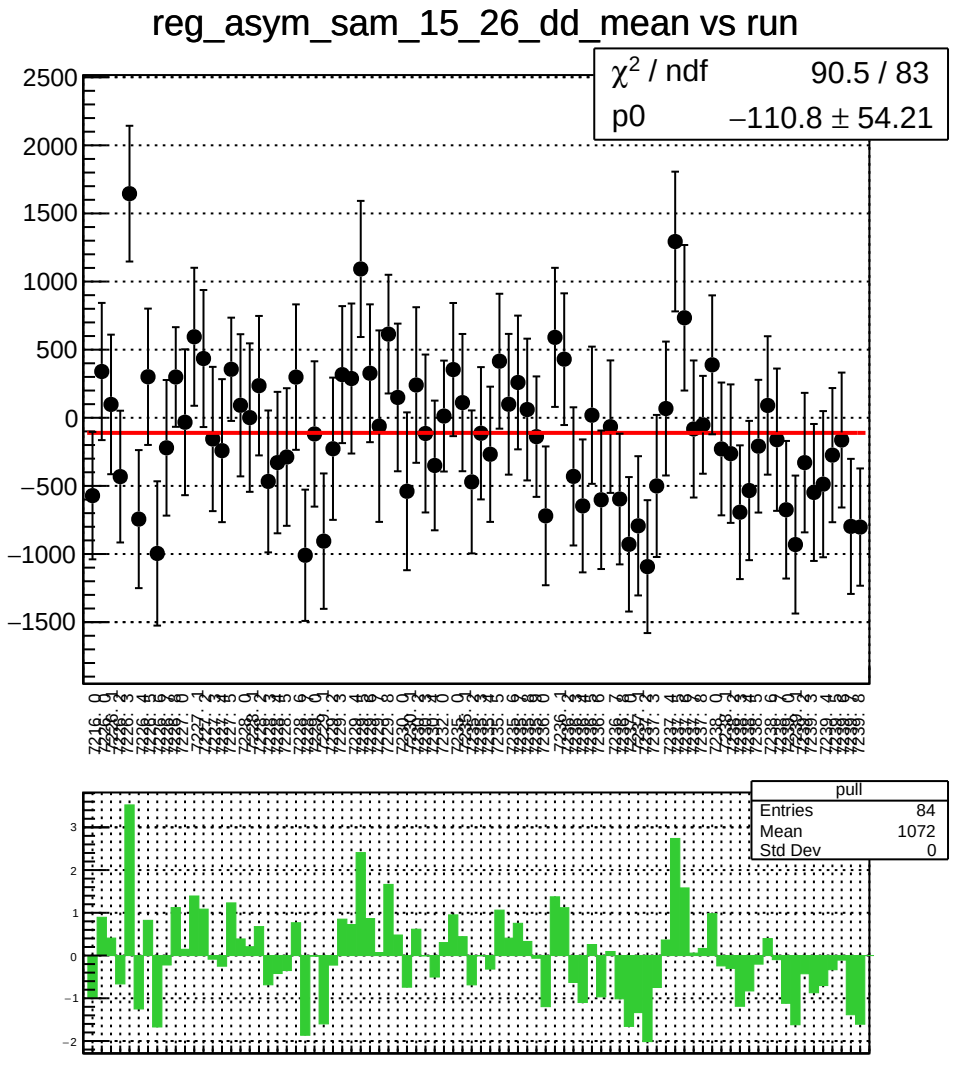


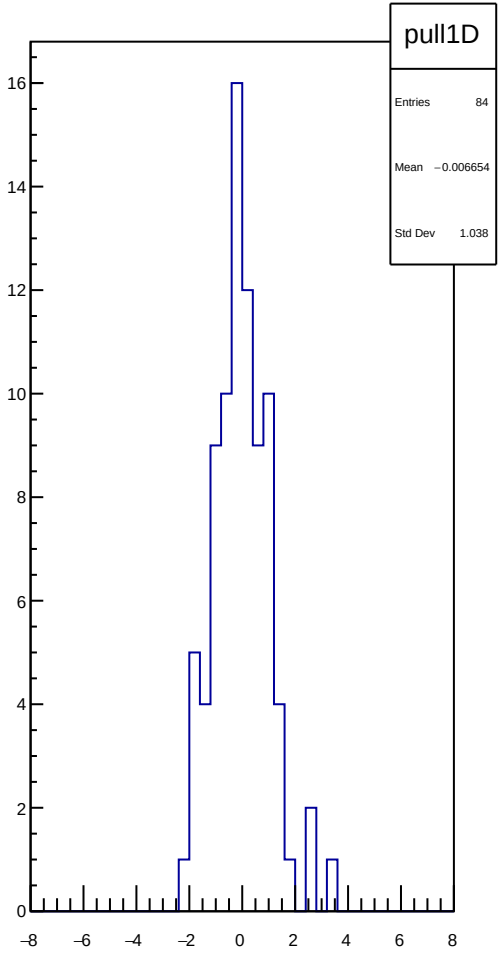

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.677e+04 / 83
p0 23.8 ± 0.01888
40
35
30
25
20

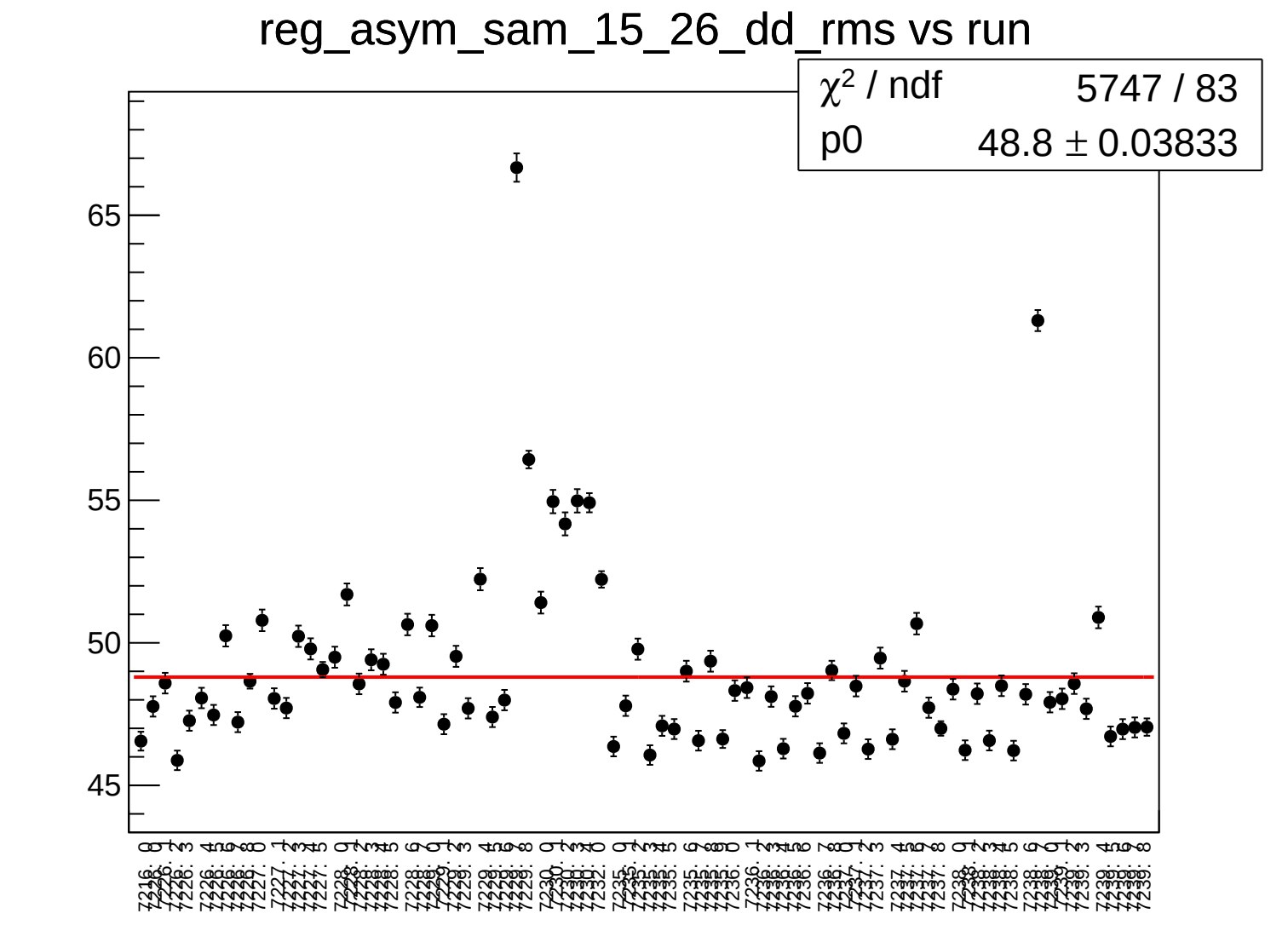

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 106.6 / 83
p0 −5.876e−15 ± 5.897e−15
pull
Entries 84
Mean 63.63
Std Dev 39.24

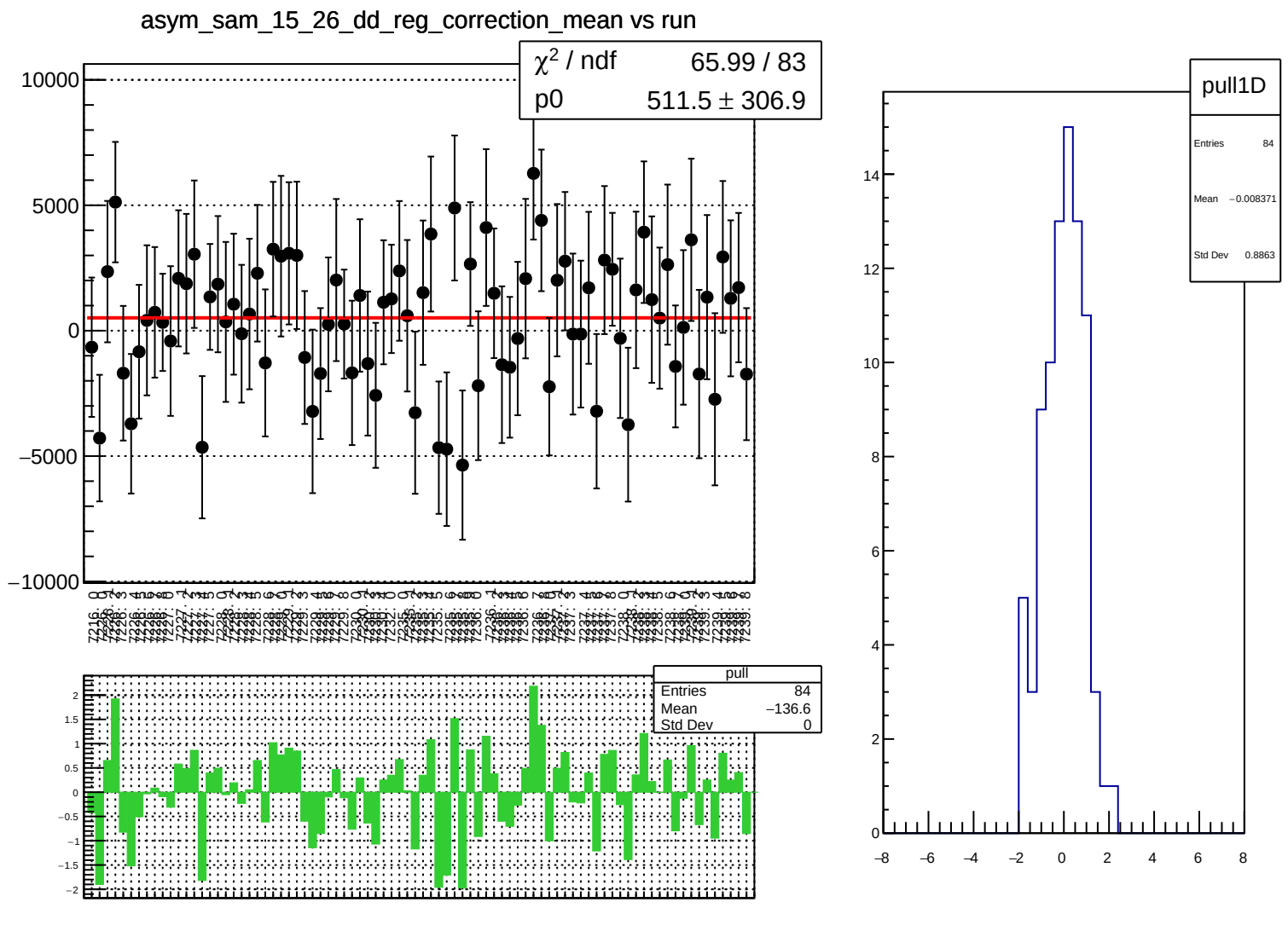

pull1D
Entries 84
Mean −0.03271
Std Dev 1.126

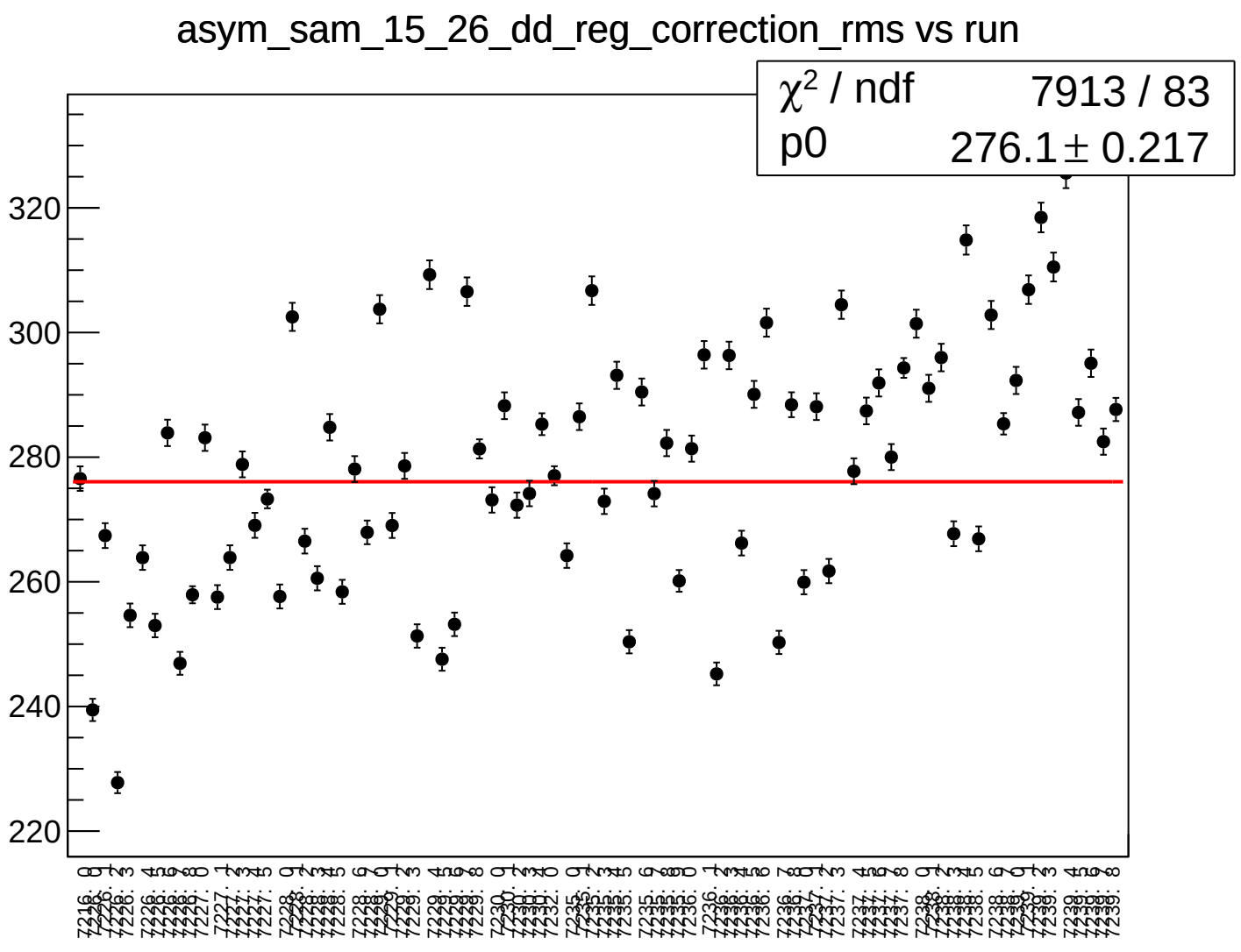

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.087e+05 / 83
p0 4.408e−12 ± 4.17e−15
25
20
15
10
5

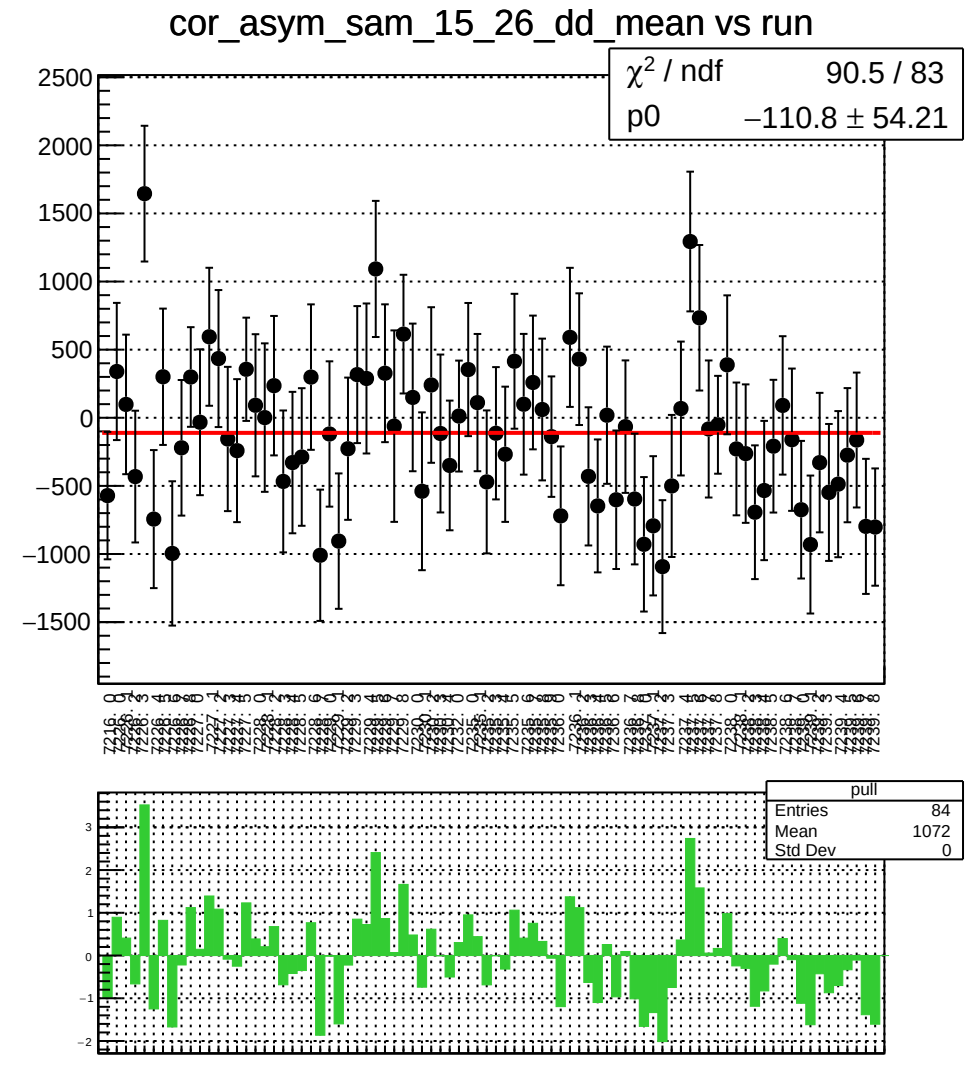

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 90.5 / 83
p0 −110.8 ± 54.21
pull
Entries 84
Mean 1072
Std Dev 0

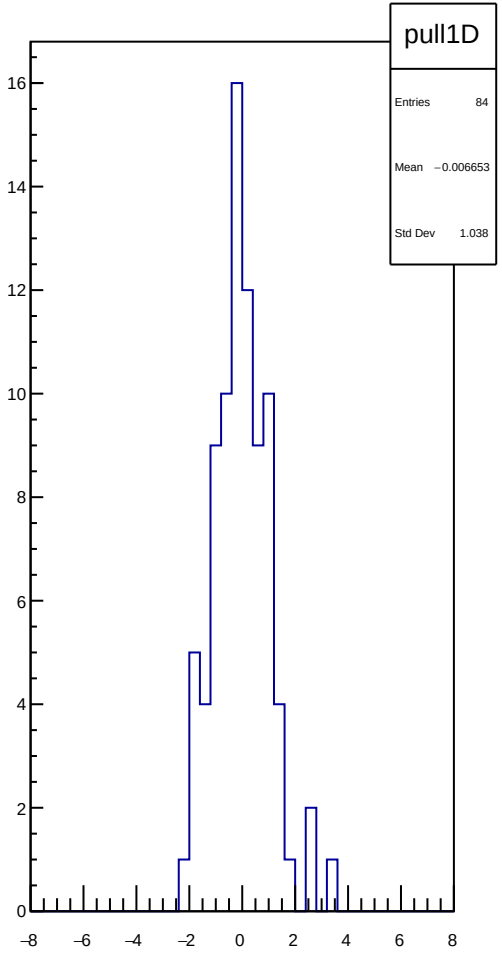

pull1D
Entries 84
Mean −0.006654
Std Dev 1.038

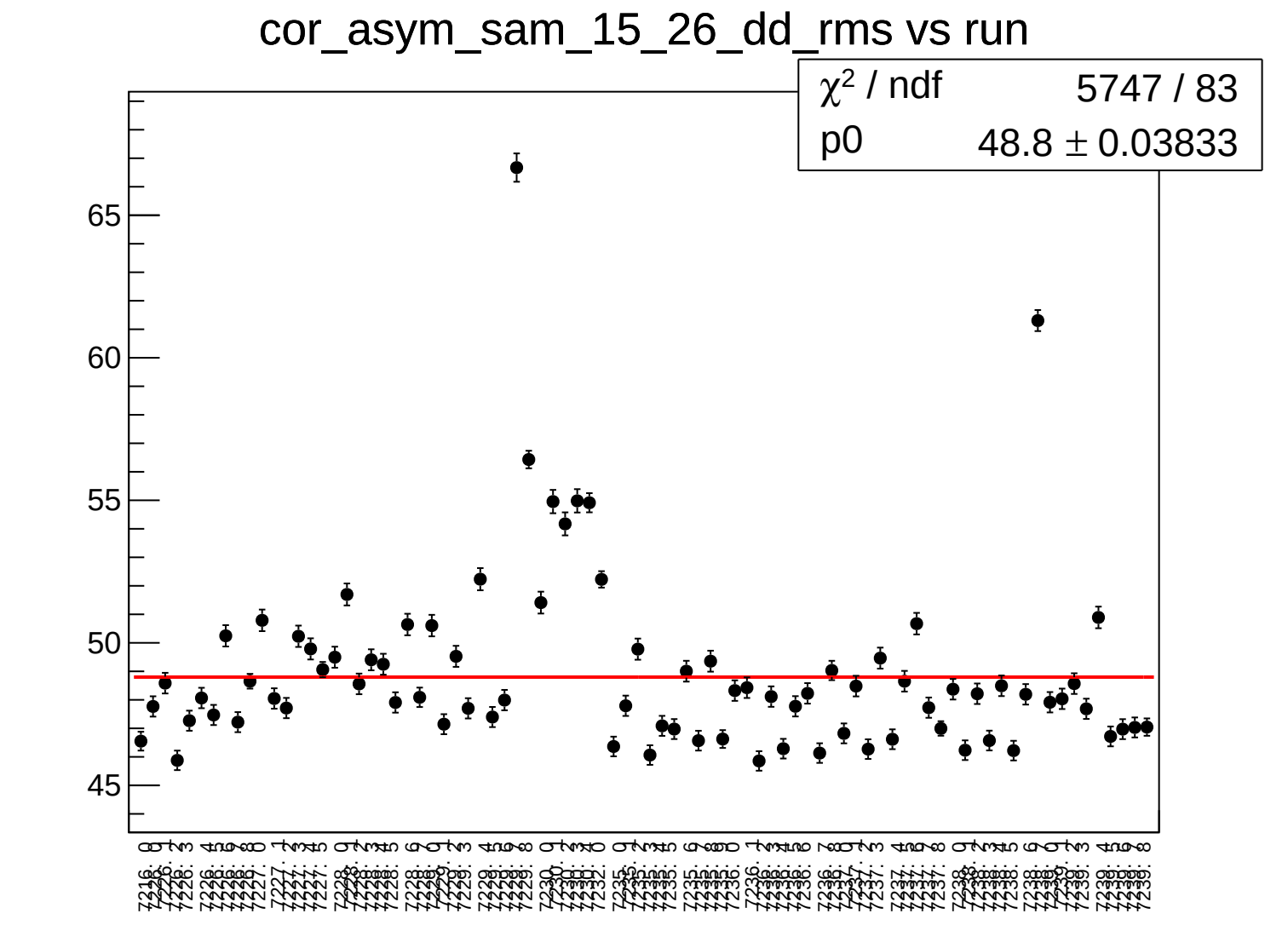

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 5747 / 83
p0 48.8 ± 0.03833
65
60
55
50
45

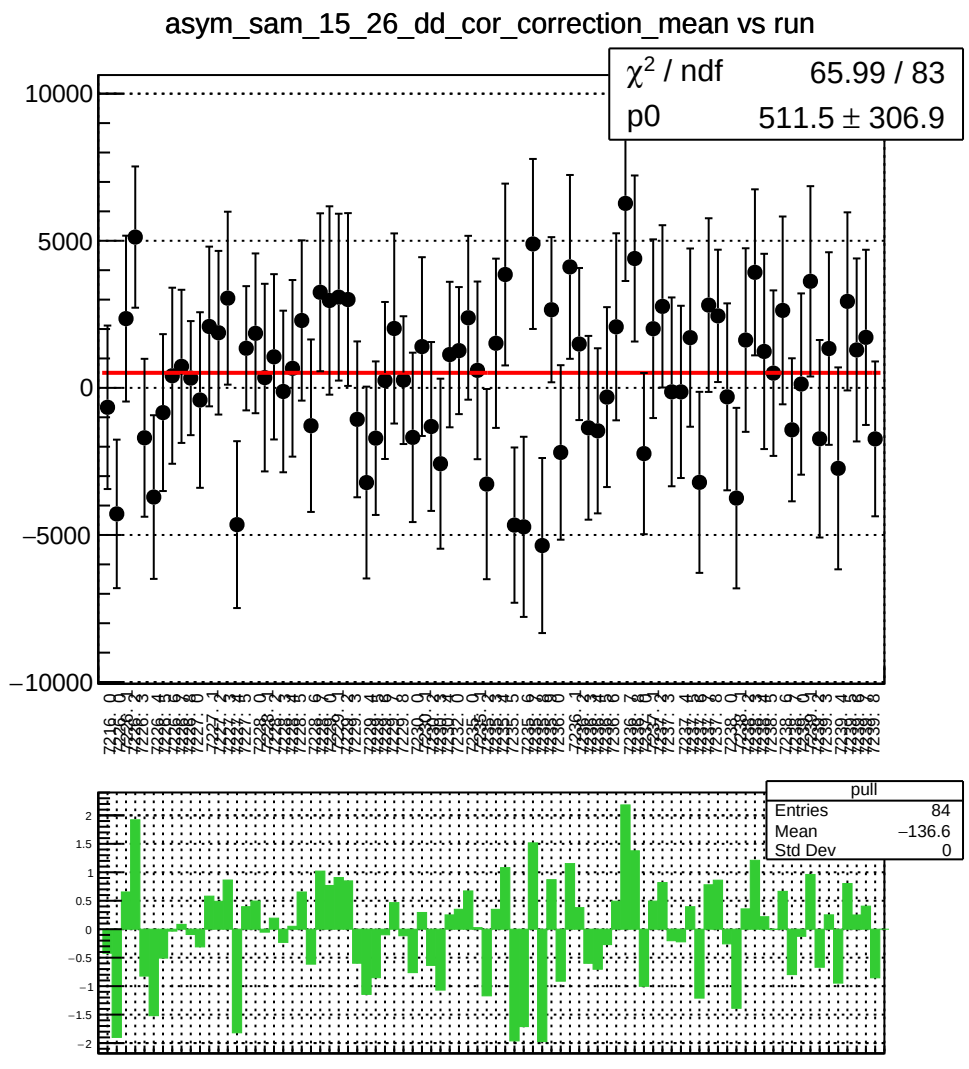

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 65.99 / 83
p0 511.5 ± 306.9
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −136.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 84
Mean −0.008371
Std Dev 0.8863
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

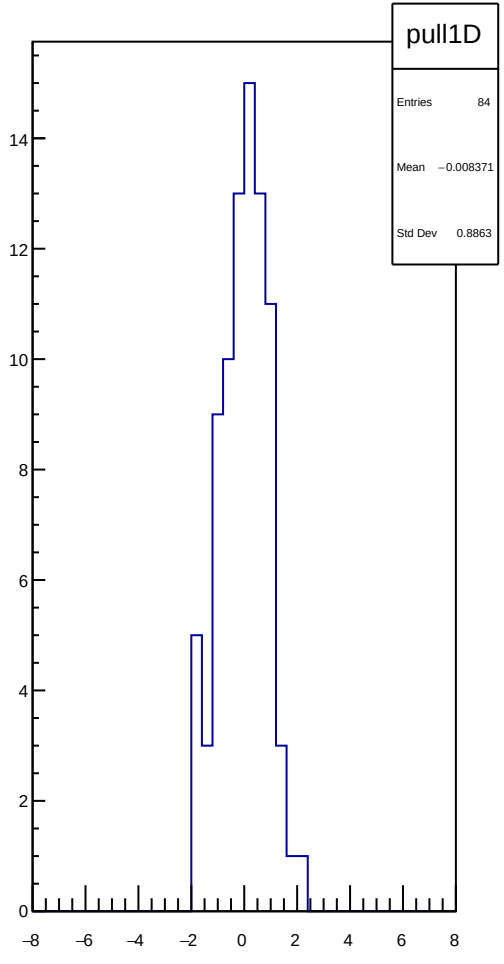

asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 7913 / 83
p0 276.1 ± 0.217
320
300
280
260
240
220

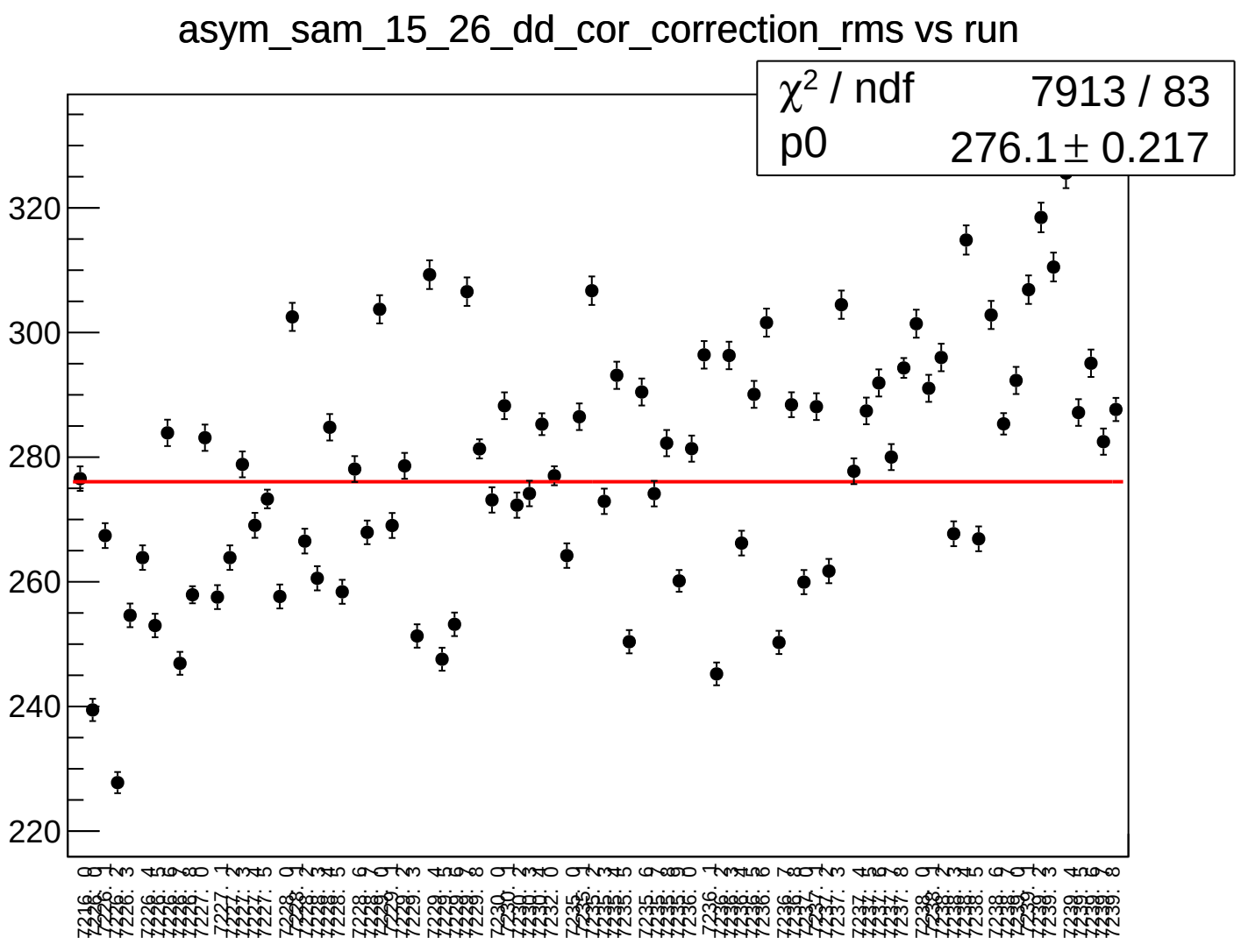

cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 90.5 / 83
p0 −110.8 ± 54.21
pull
Entries 84
Mean 1072
Std Dev 0

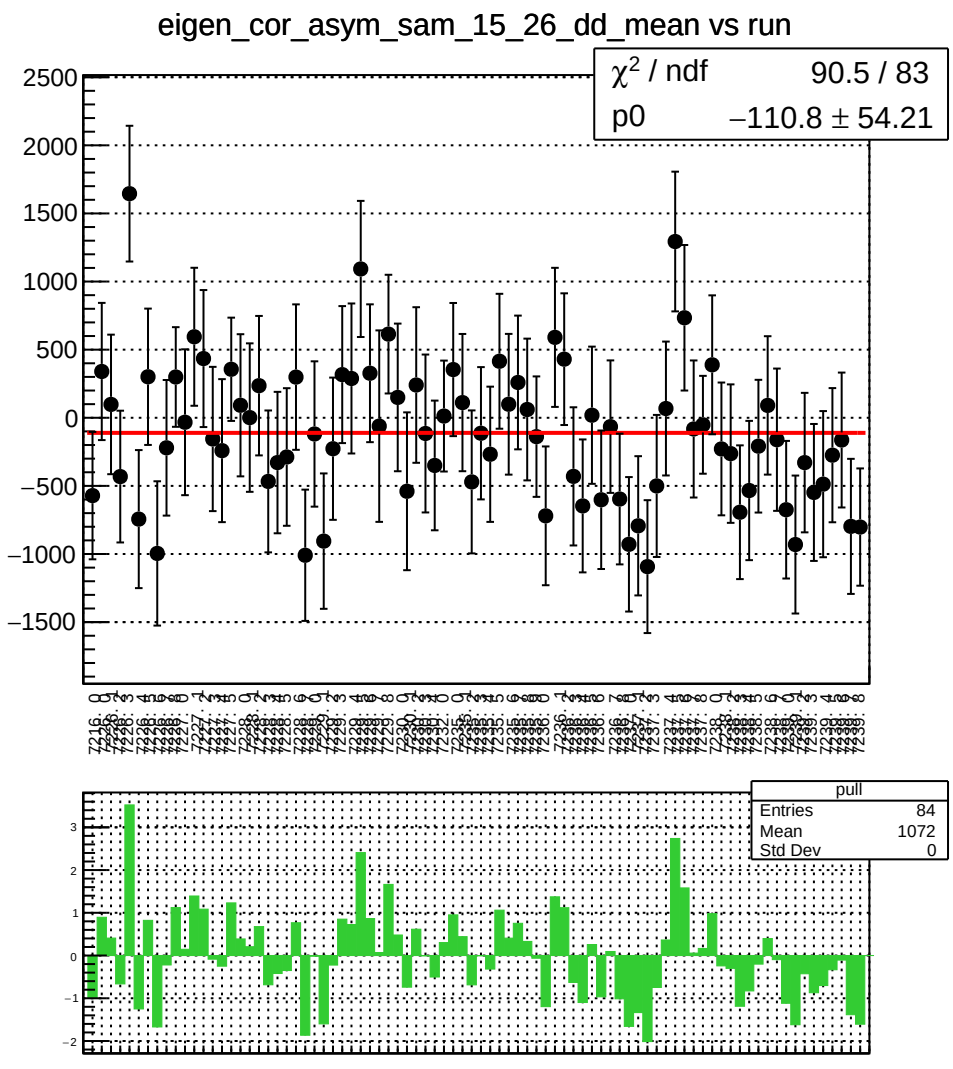

pull1D
Entries 84
Mean −0.006653
Std Dev 1.038

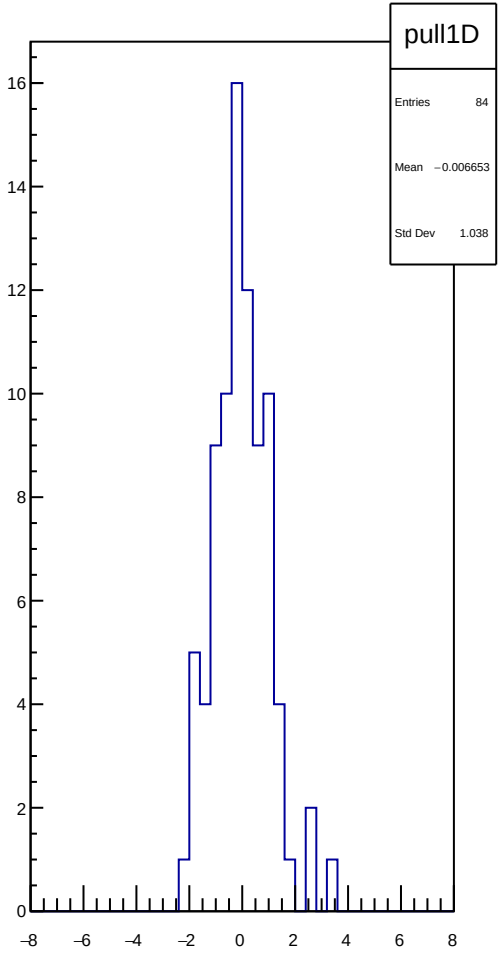

cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 5747 / 83
p0 48.8 ± 0.03833
65
60
55
50
45

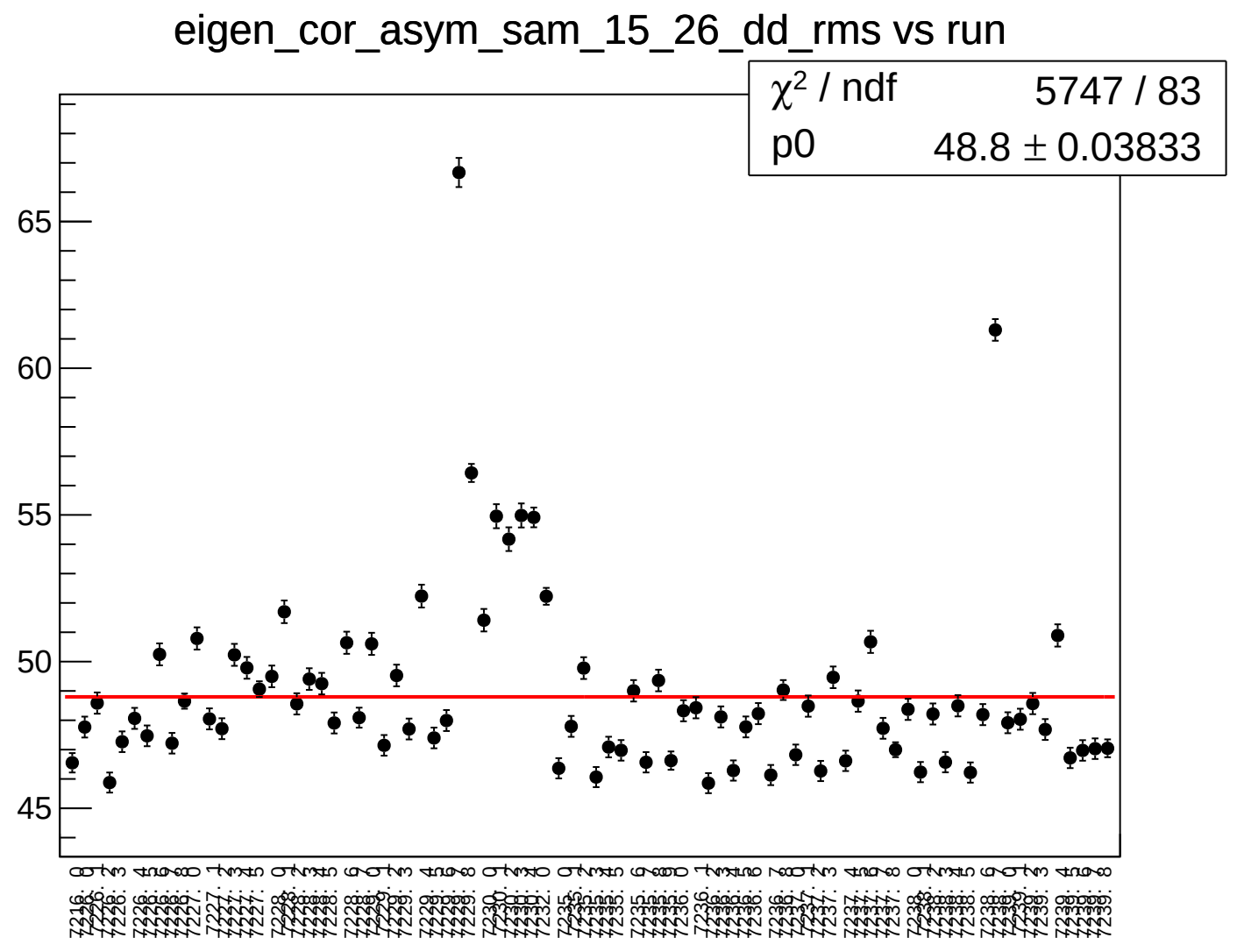

asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 65.99 / 83
p0 511.5 ± 306.9
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −136.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

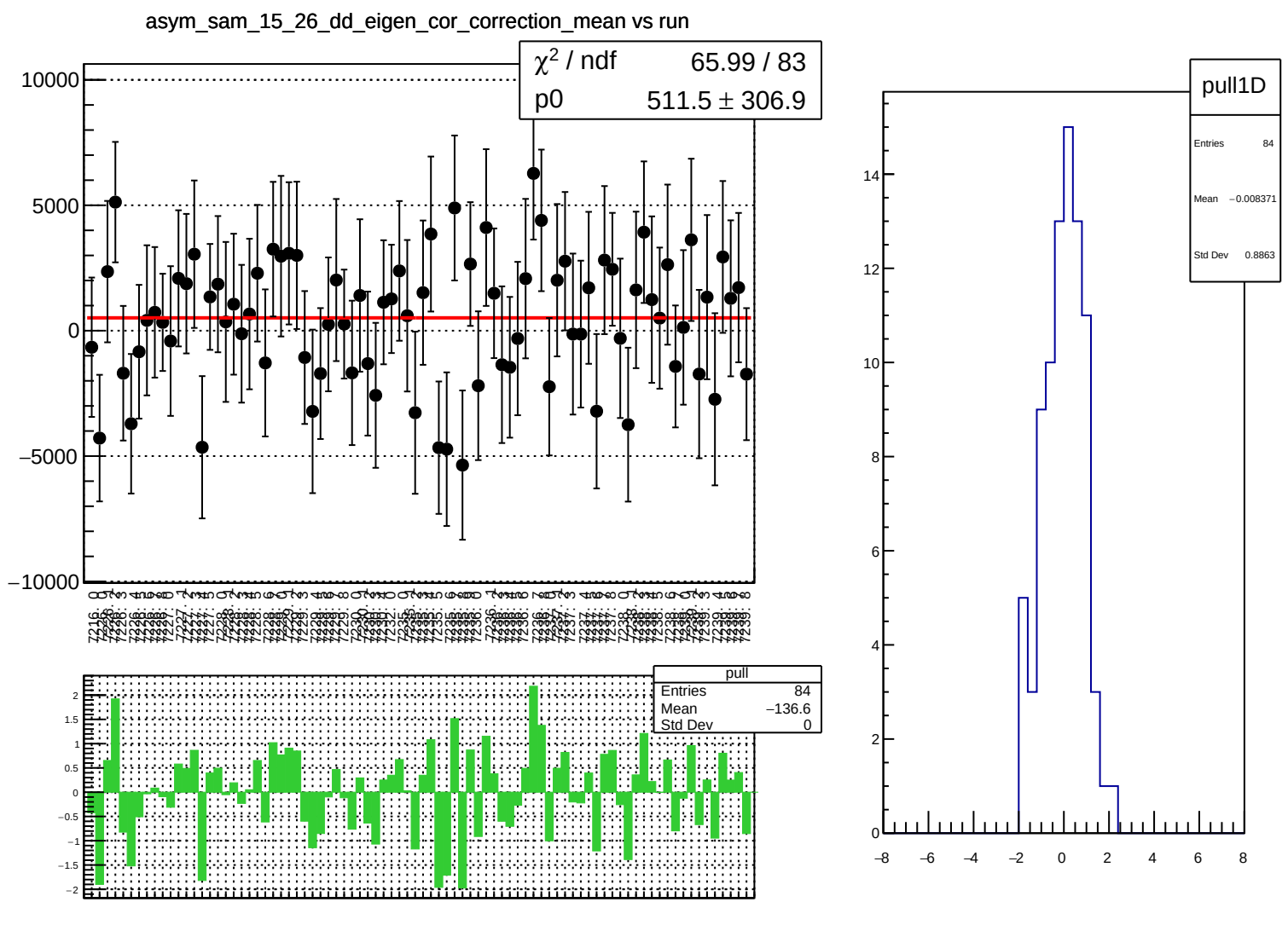

pull1D
Entries 84
Mean −0.008371
Std Dev 0.8863
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

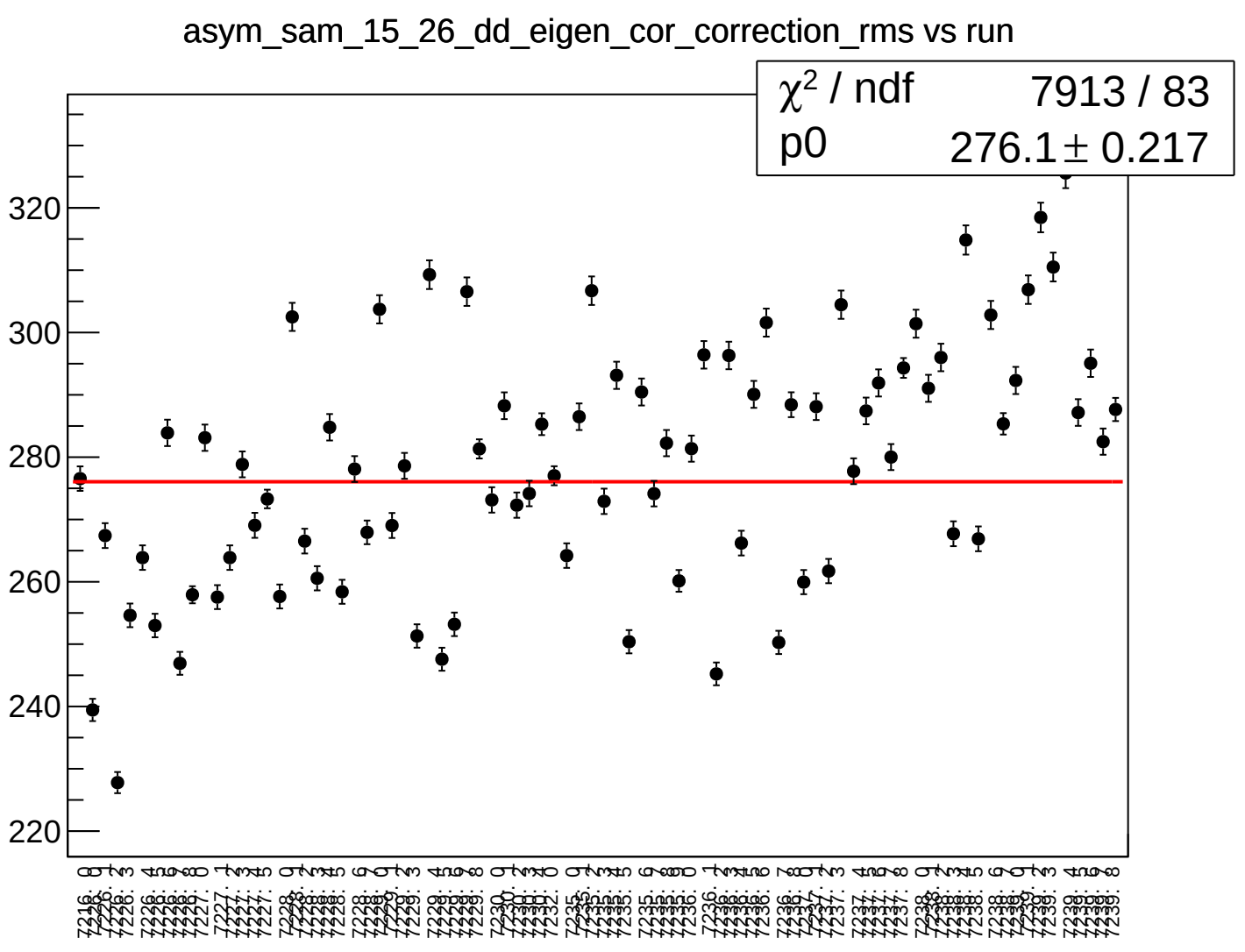

asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 7913 / 83
p0 276.1 ± 0.217
320
300
280
260
240
220

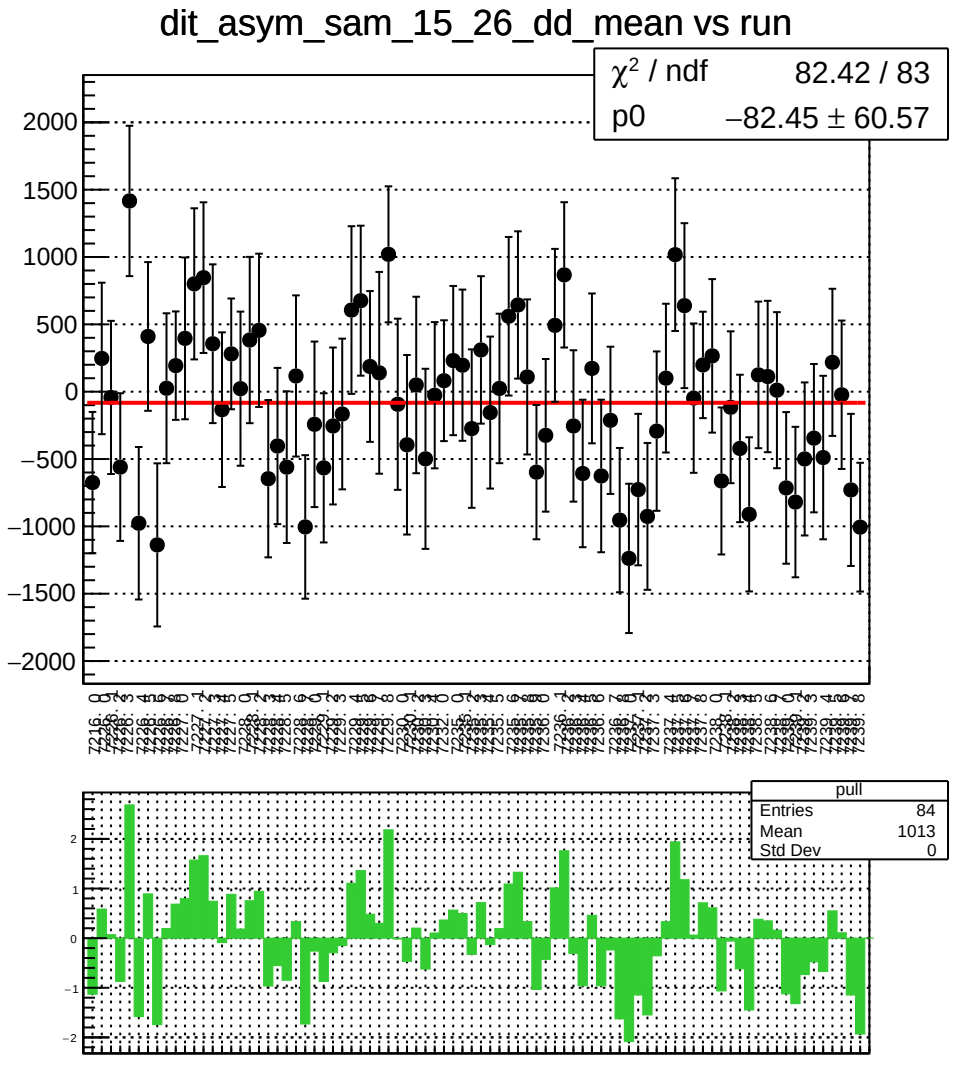

eigen_cor_asym_sam_15_26_dd_mean vs run
χ^2 / ndf 90.5 / 83
p0 −110.8 ± 54.21
pull
Entries 84
Mean 1072
Std Dev 0

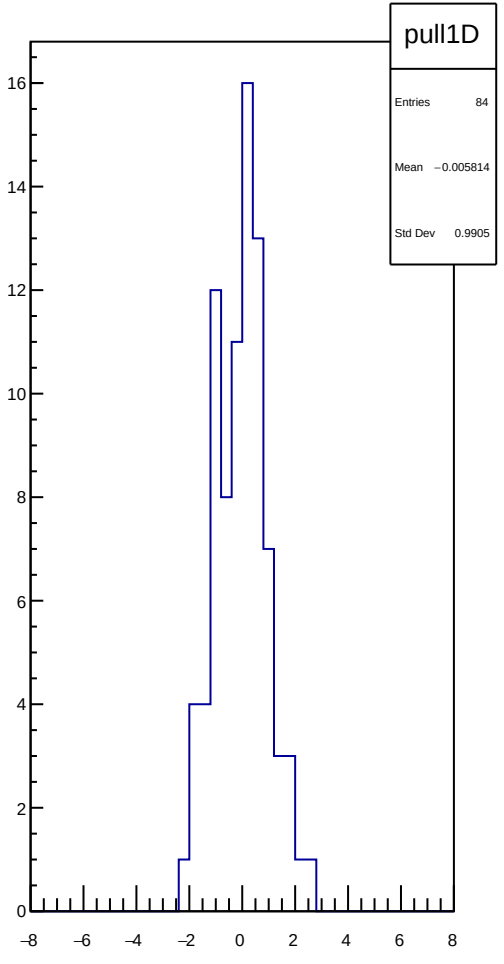

pull1D
Entries 84
Mean −0.006653
Std Dev 1.038

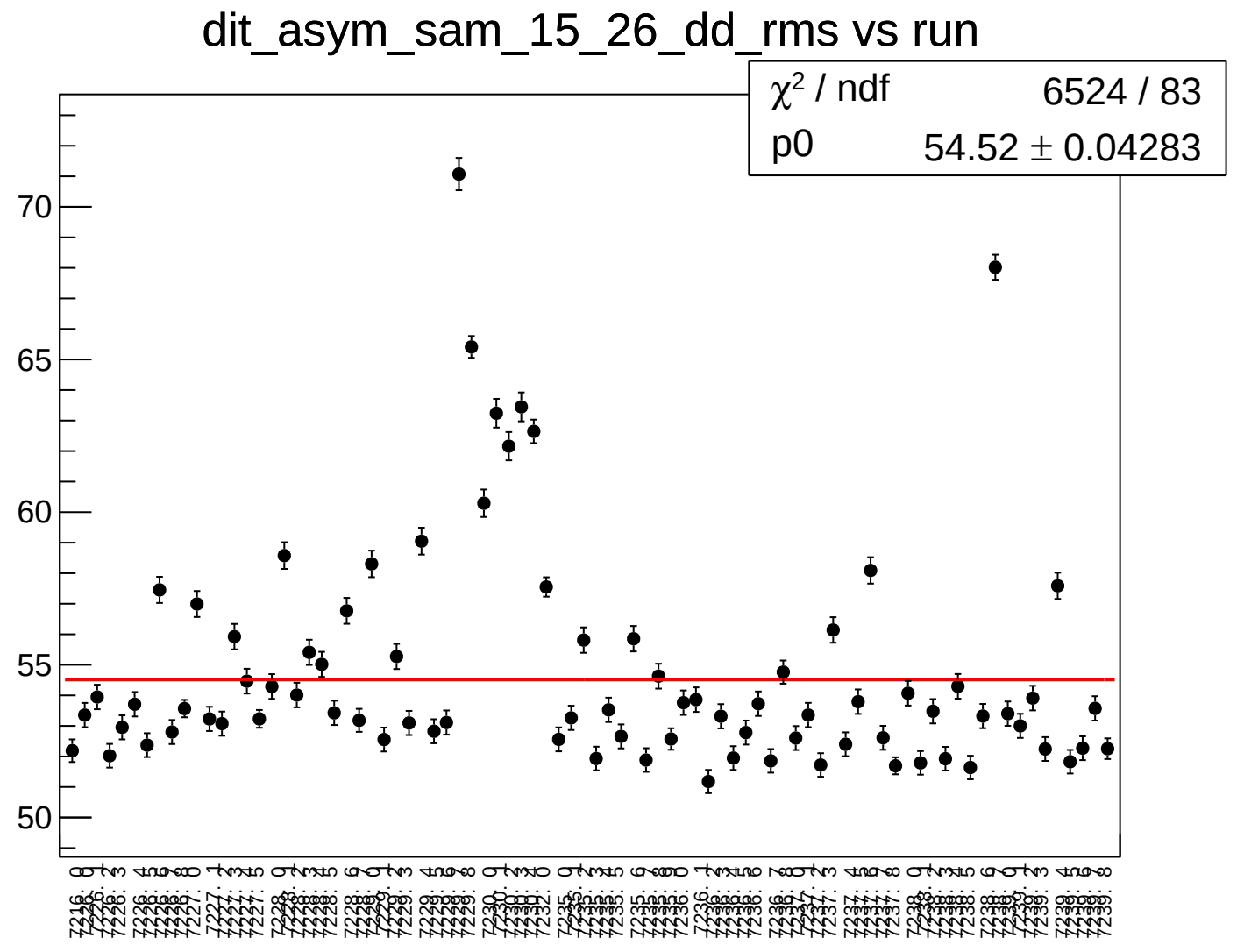

eigen_cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 5747 / 83
p0 48.8 ± 0.03833
65
60
55
50
45

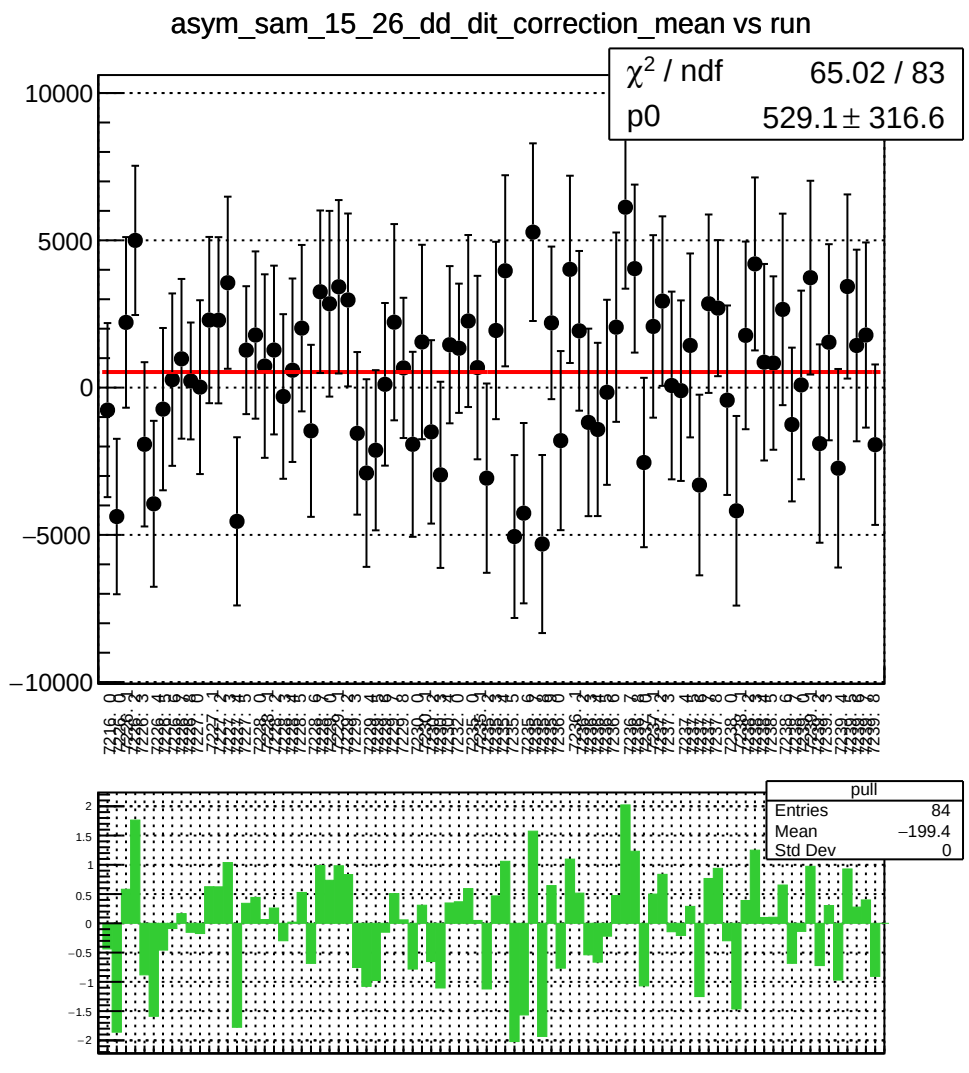

asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 65.99 / 83
p0 511.5 ± 306.9
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −136.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 84
Mean −0.008371
Std Dev 0.8863
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

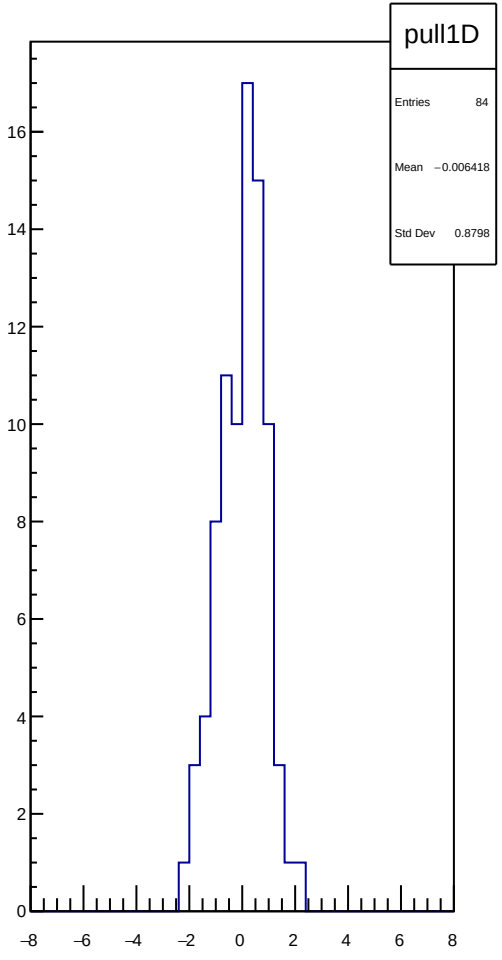

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 7913 / 83
p0 276.1 ± 0.217
320
300
280
260
240
220

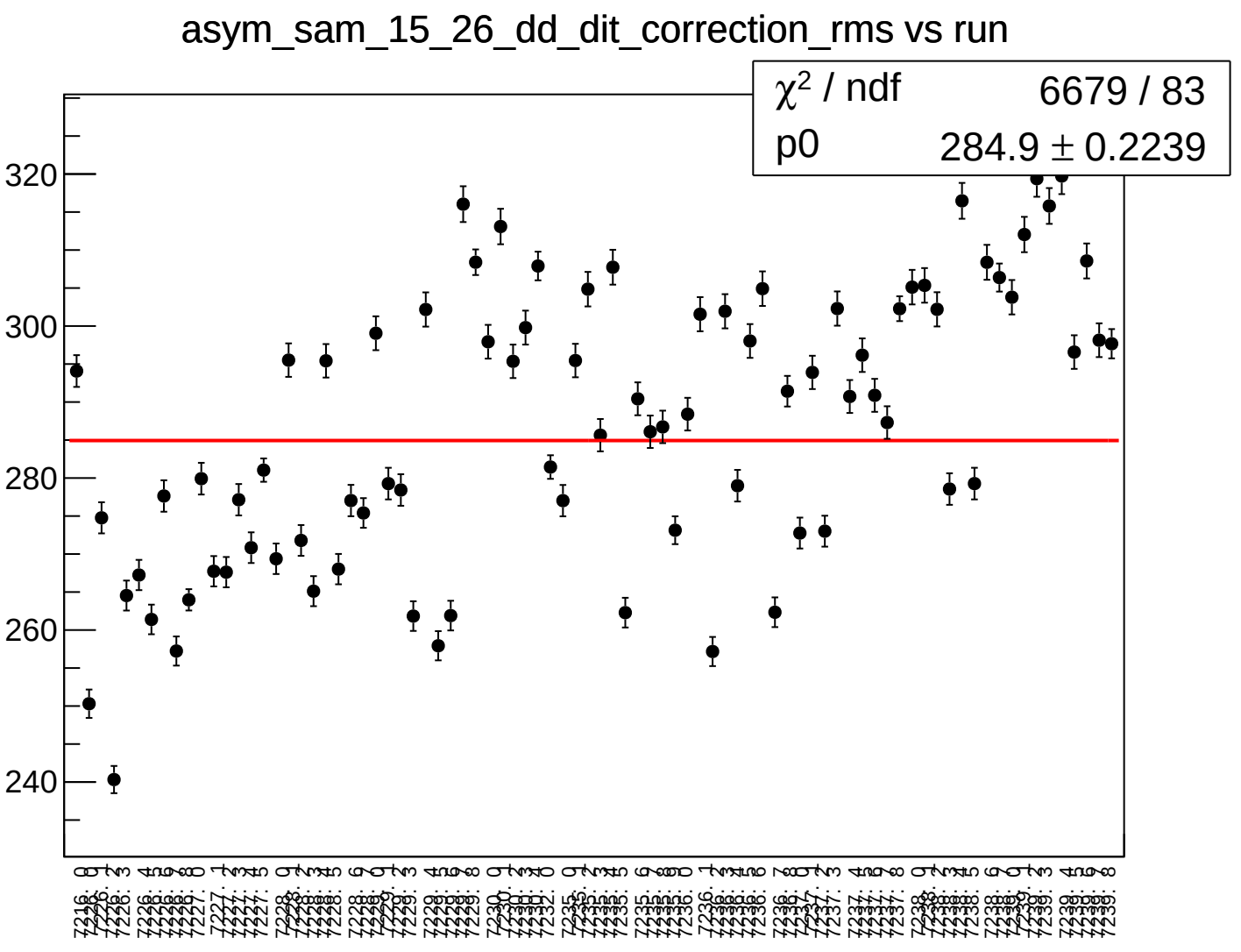

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 82.42 / 83
p0 −82.45 ± 60.57
pull
Entries 84
Mean 1013
Std Dev 0

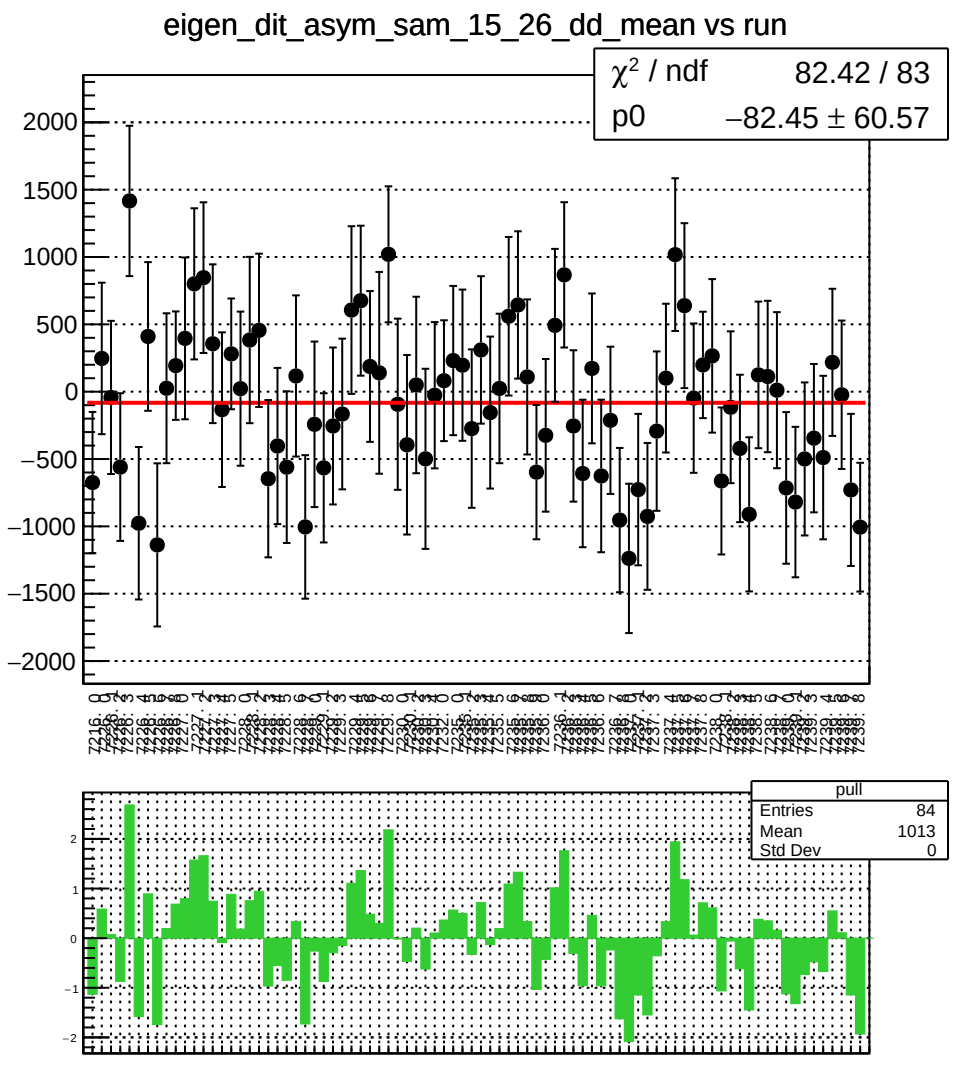

pull1D
Entries 84
Mean −0.005814
Std Dev 0.9905

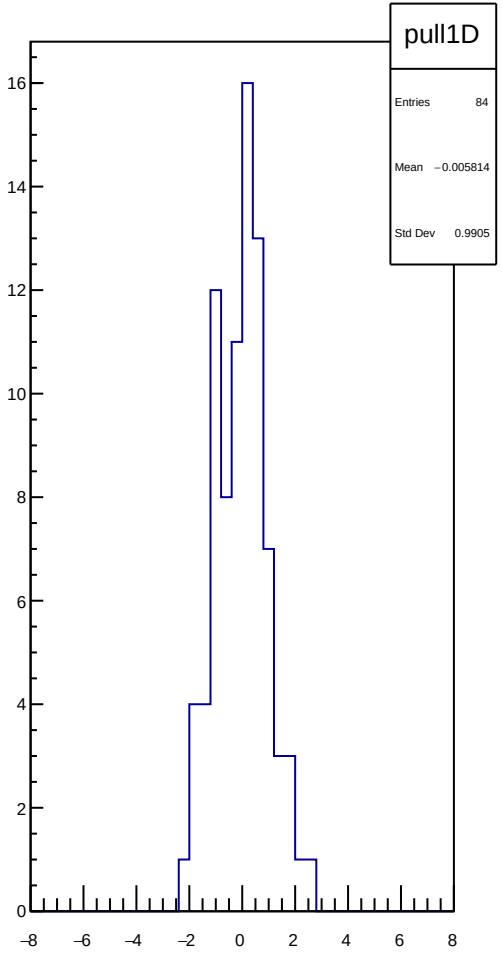

dit_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 6524 / 83
p0 54.52 ± 0.04283
70
65
60
55
50

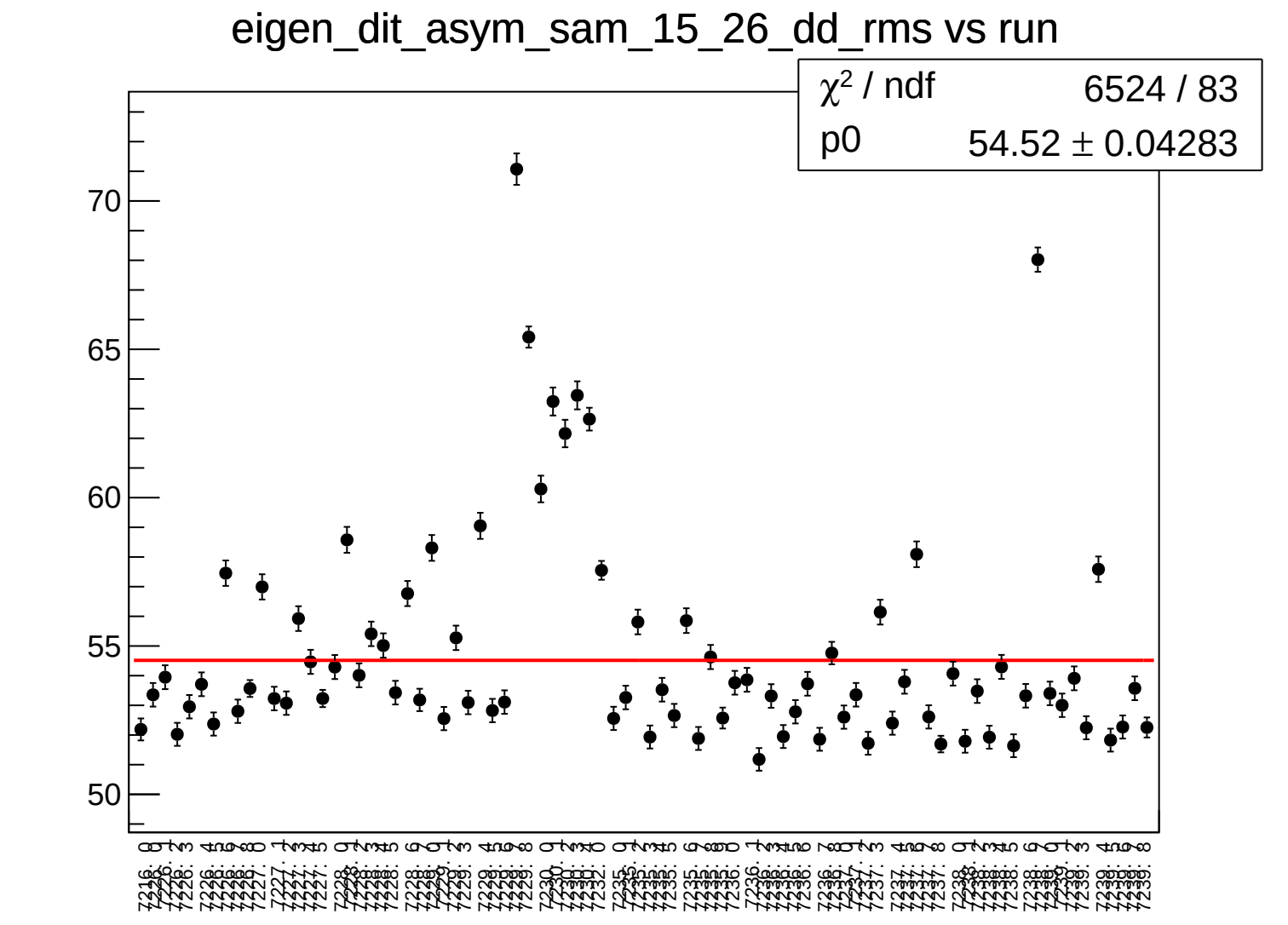

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 65.02 / 83
p0 529.1 ± 316.6
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −199.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

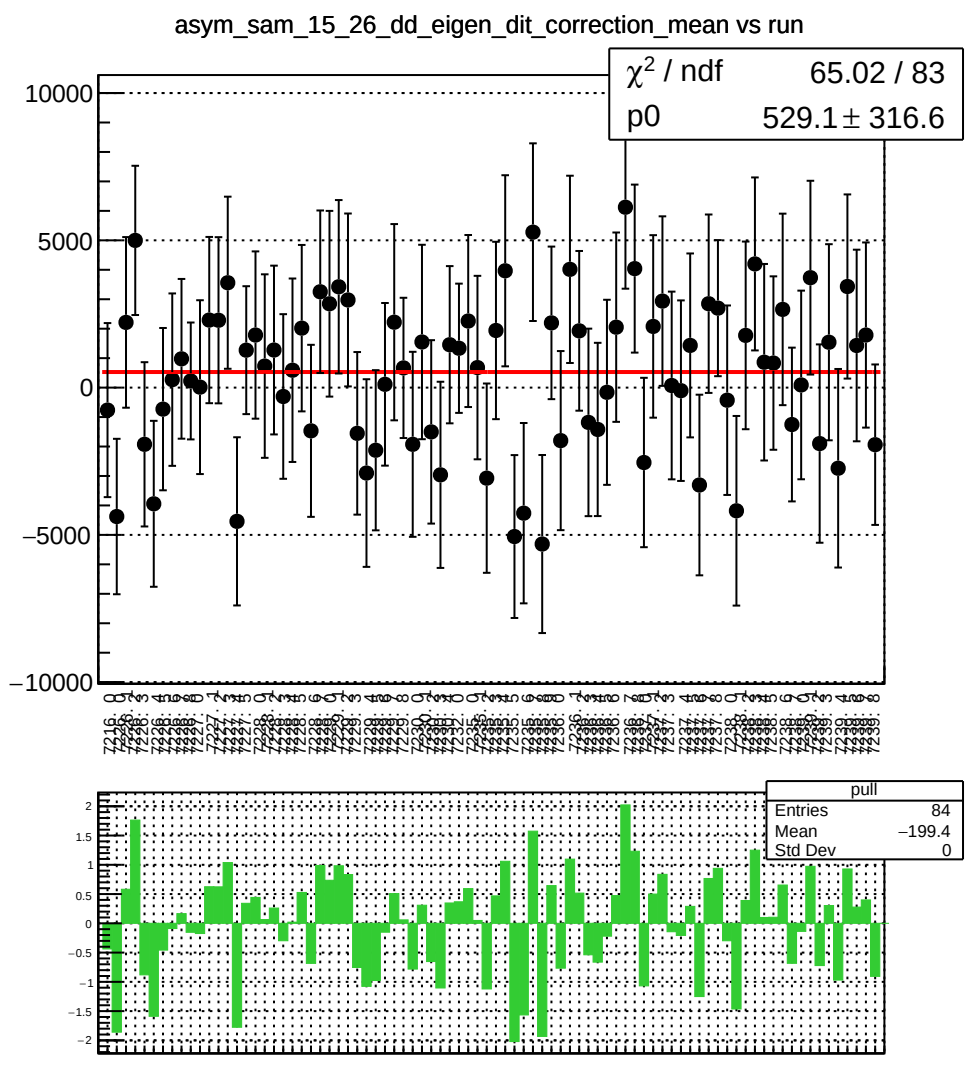

pull1D
Entries 84
Mean −0.006418
Std Dev 0.8798
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

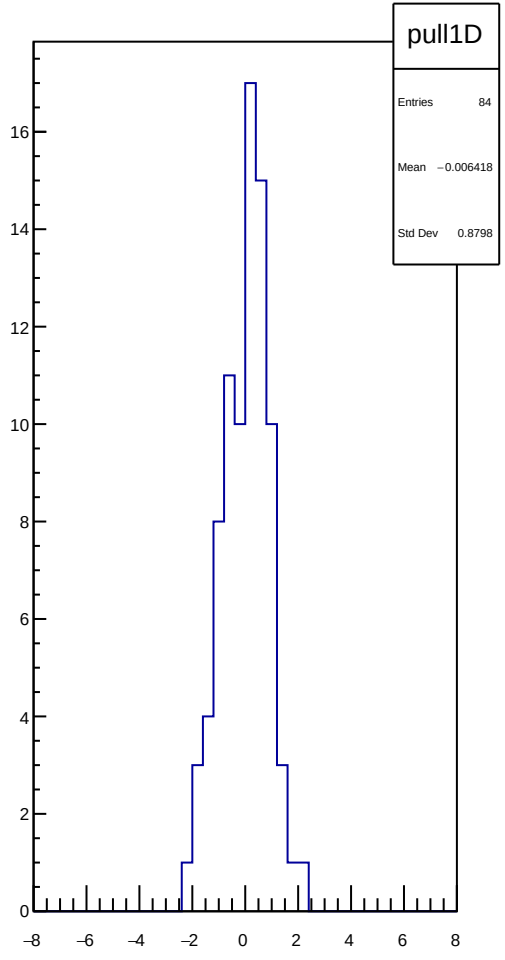

asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 6679 / 83
p0 284.9 ± 0.2239
320
300
280
260
240

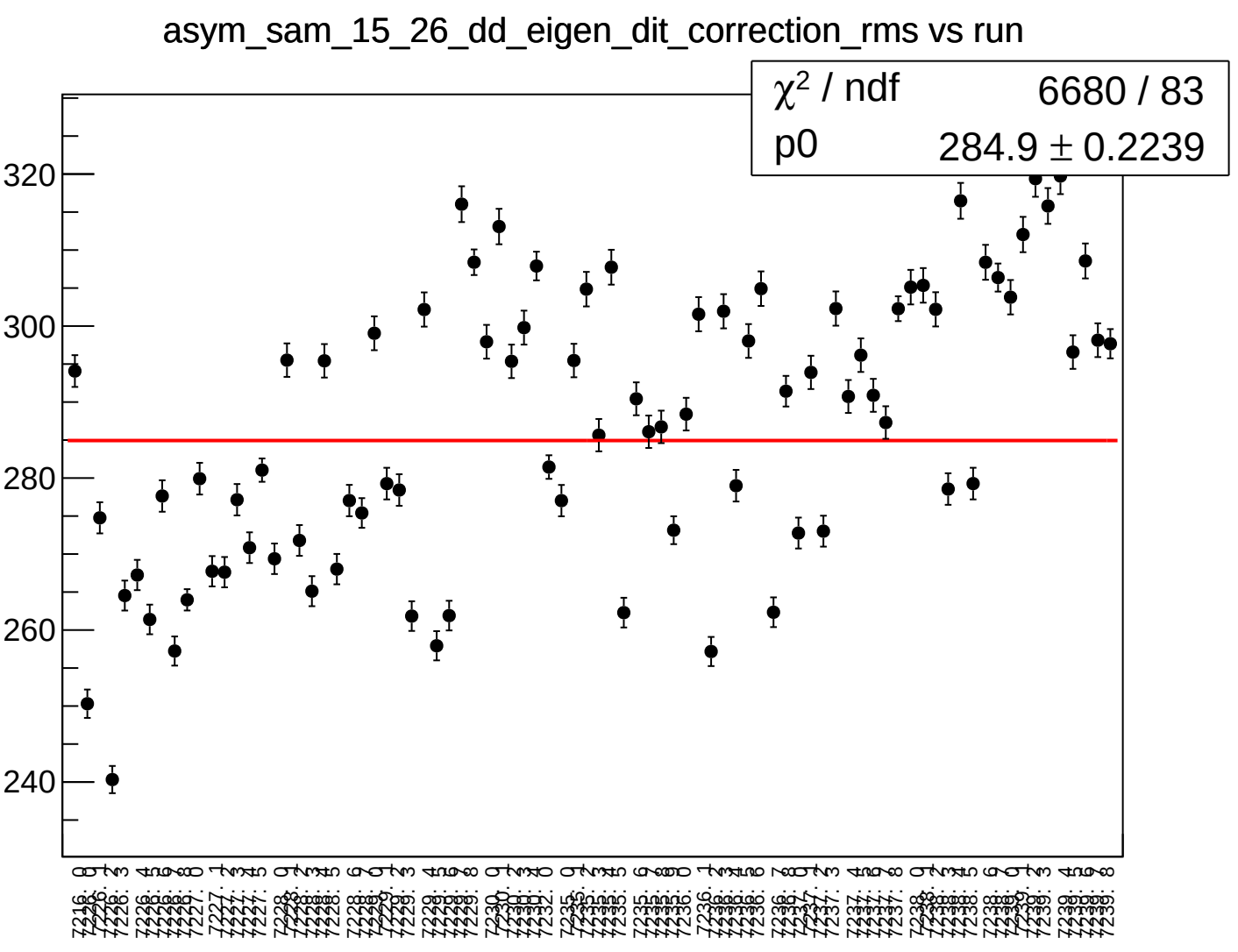

eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 82.42 / 83
p0 −82.45 ± 60.57
pull
Entries 84
Mean 1013
Std Dev 0

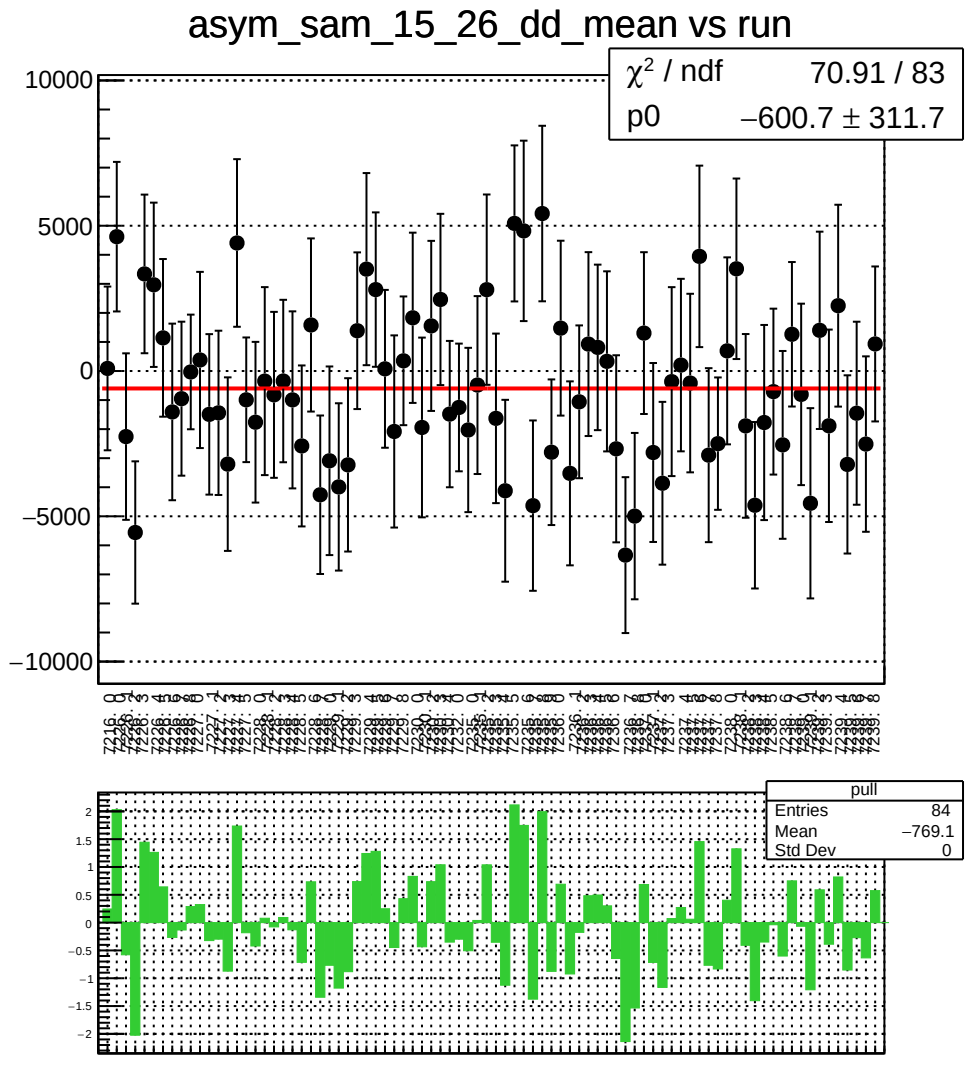

pull1D
Entries 84
Mean −0.005814
Std Dev 0.9905

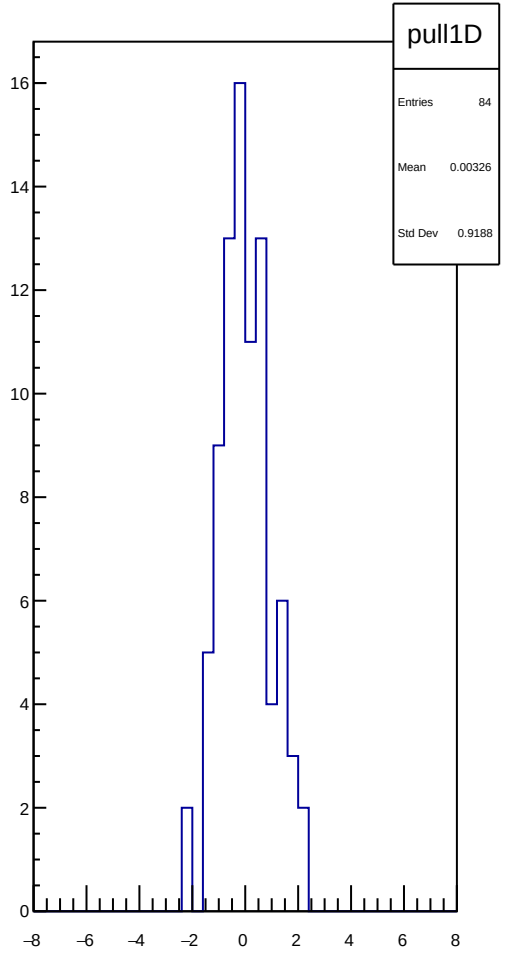

eigen_dit_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 6524 / 83
p0 54.52 ± 0.04283
70
65
60
55
50

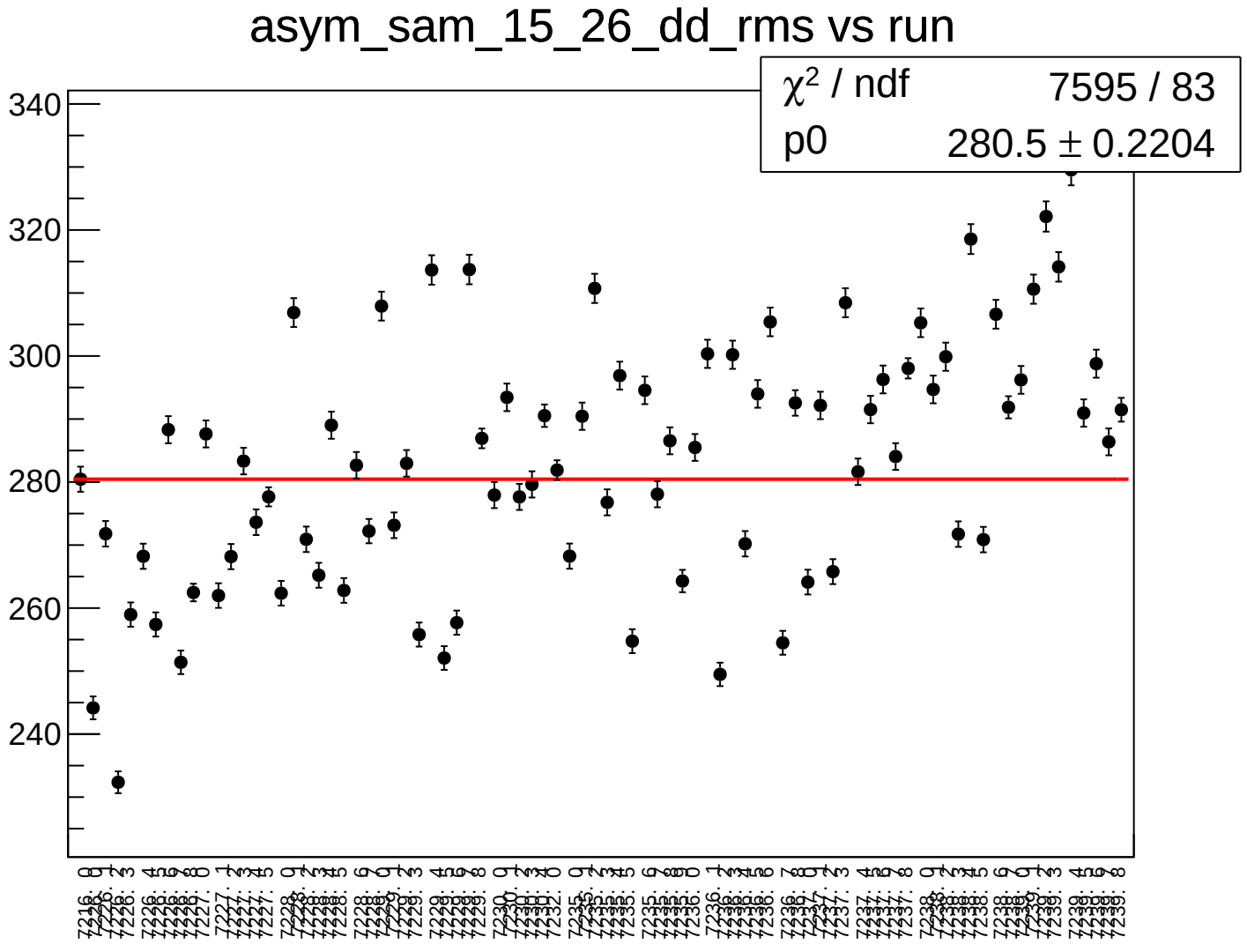

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 65.02 / 83
p0 529.1 ± 316.6
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −199.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

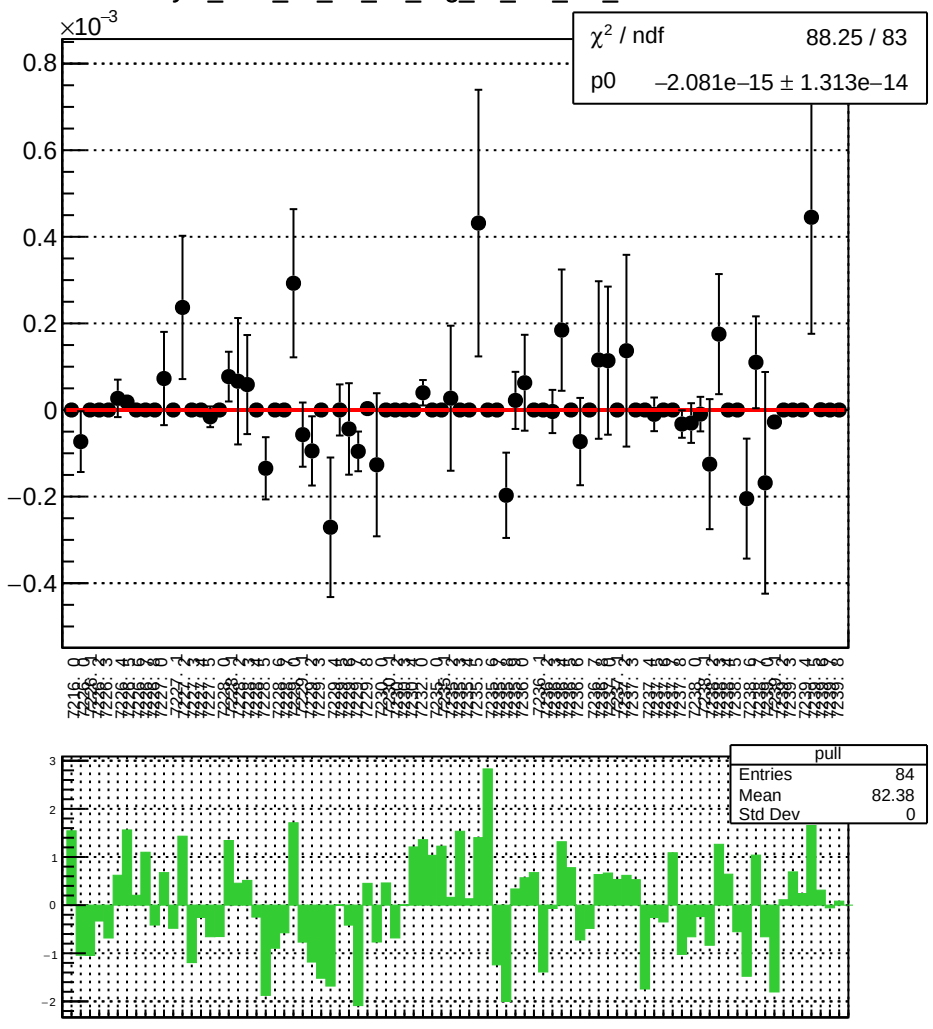

pull1D
Entries 84
Mean −0.006418
Std Dev 0.8798
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

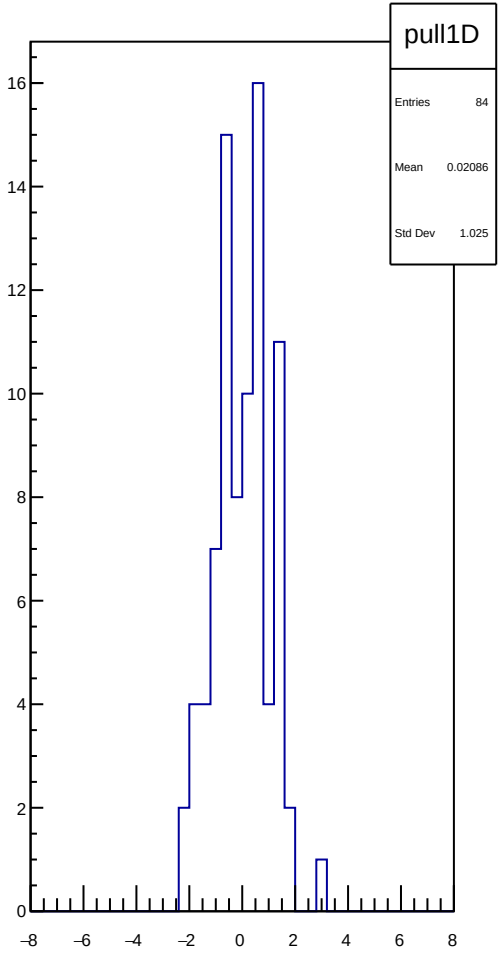

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 6680 / 83
p0 284.9 ± 0.2239
320
300
280
260
240

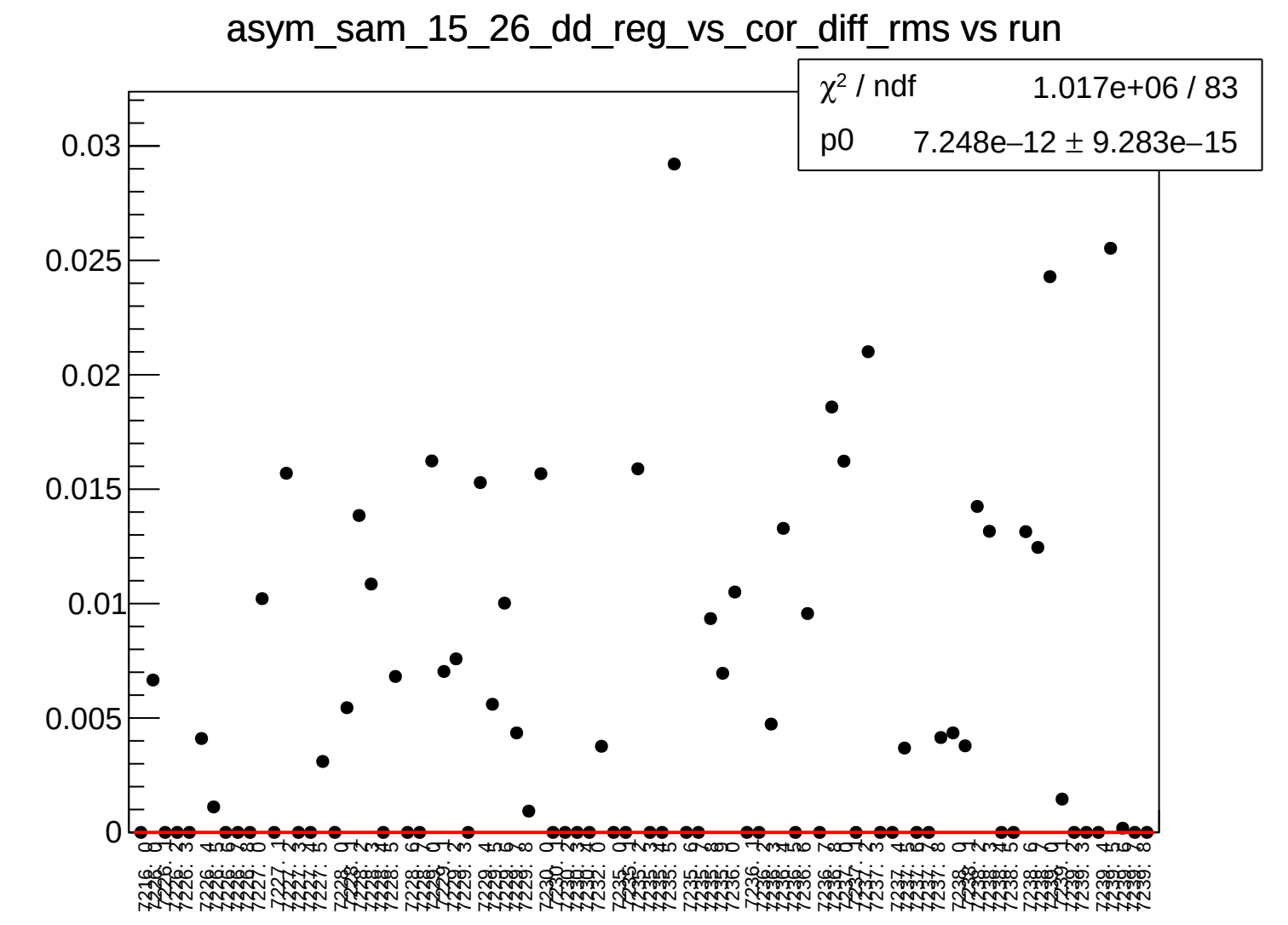

asym_sam_15_26_dd_mean vs run
χ² / ndf 70.91 / 83
p0 −600.7 ± 311.7
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −769.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

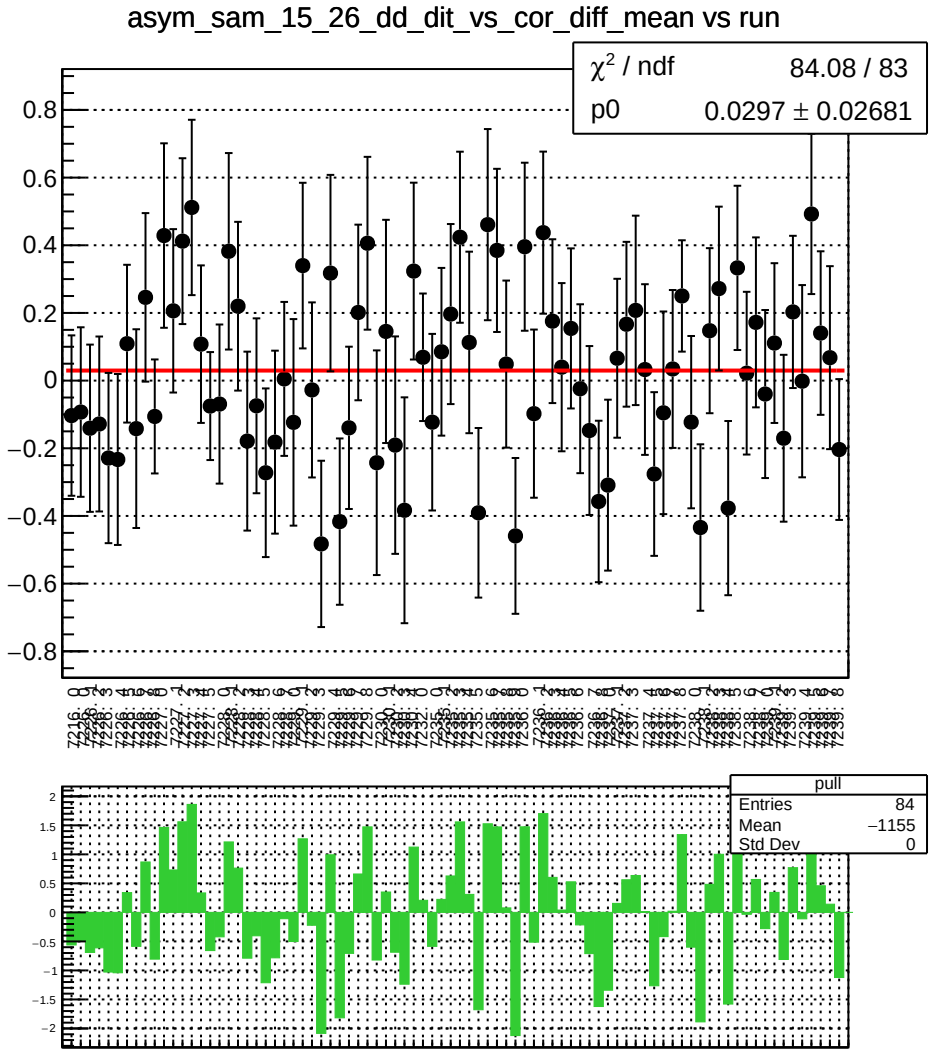

pull1D
Entries 84
Mean 0.00326
Std Dev 0.9188
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

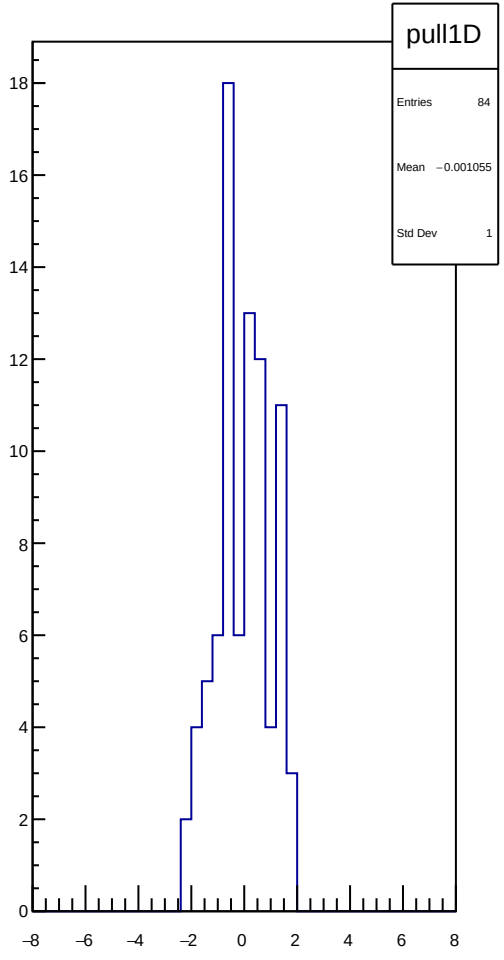

asym_sam_15_26_dd_rms vs run
χ² / ndf 7595 / 83
p0 280.5 ± 0.2204
340
320
300
280
260
240

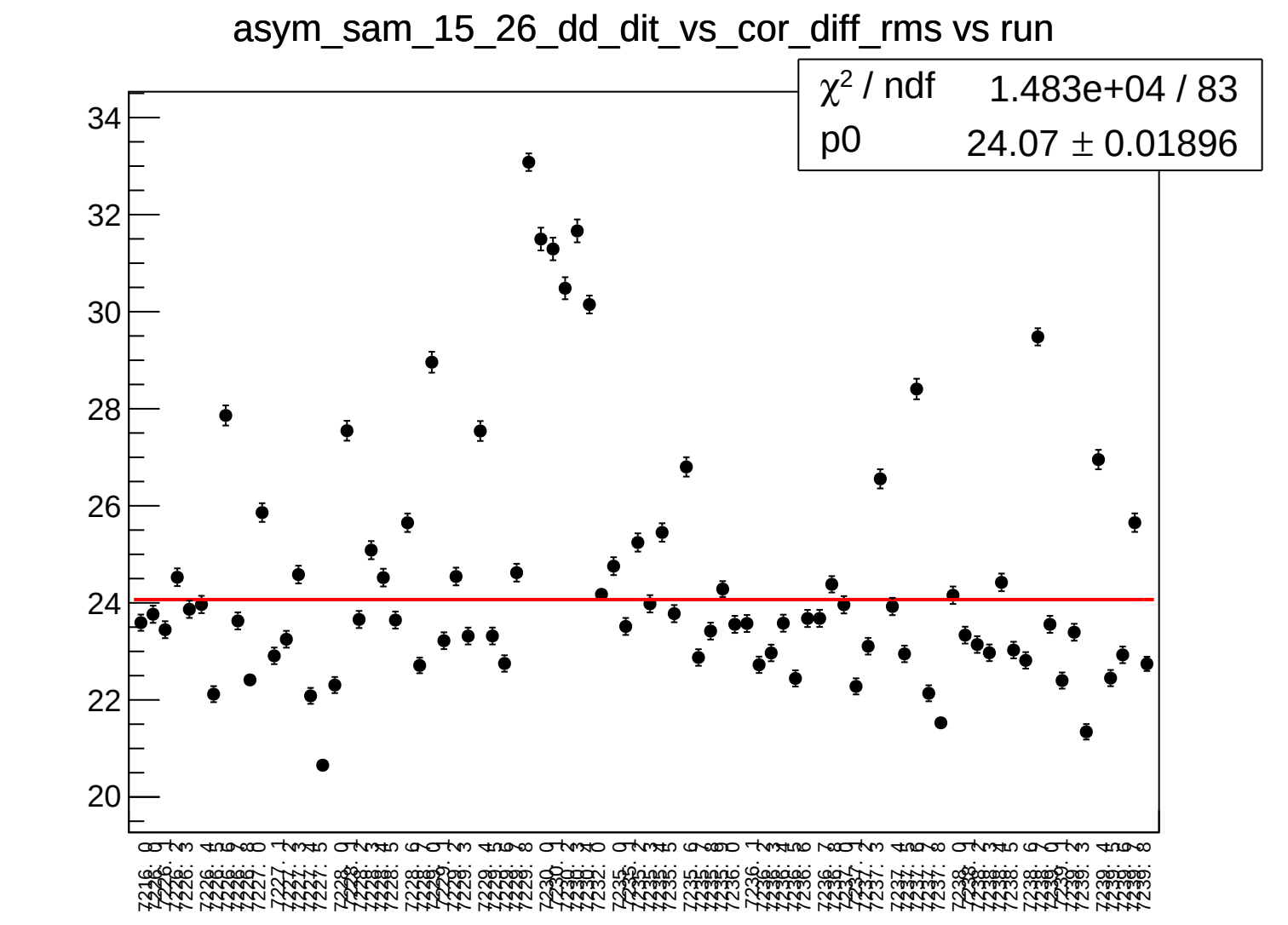

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 88.25 / 83
p0 −2.081e−15 ± 1.313e−14
pull
Entries 84
Mean 82.38
Std Dev 0

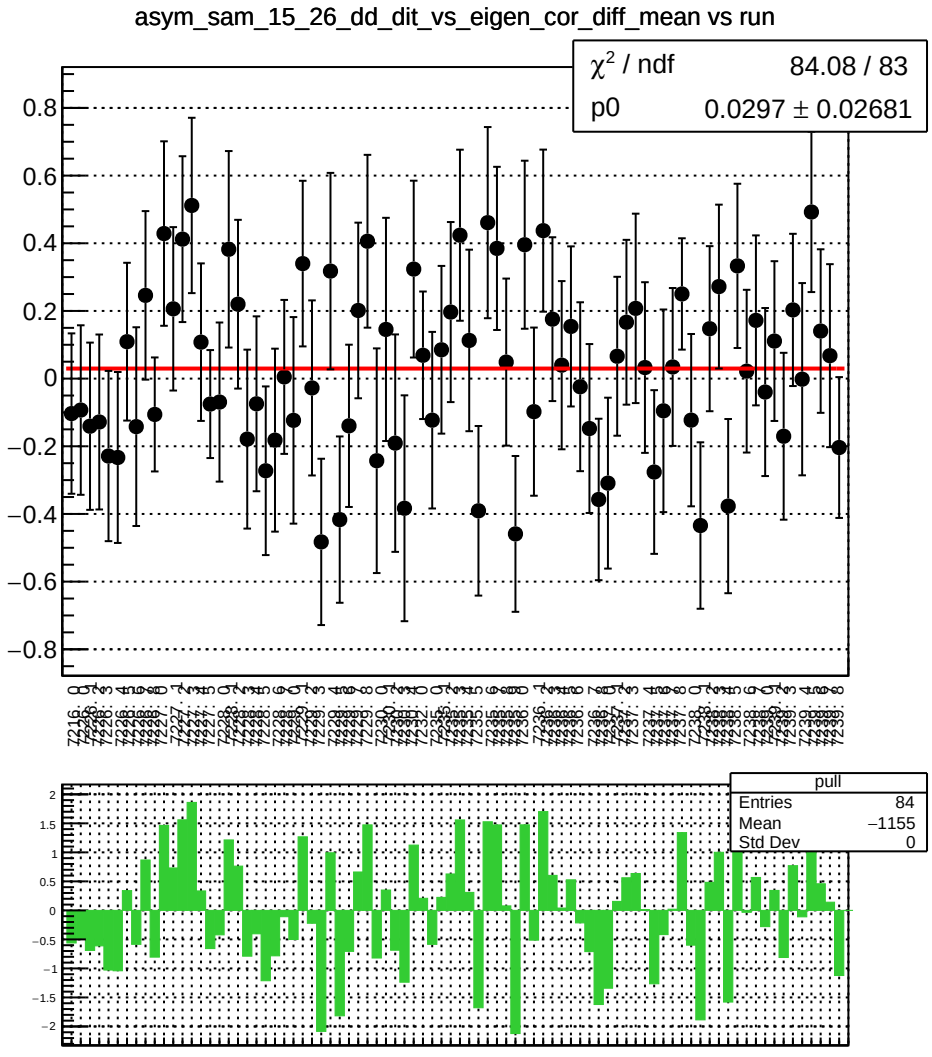

pull1D
Entries 84
Mean 0.02086
Std Dev 1.025

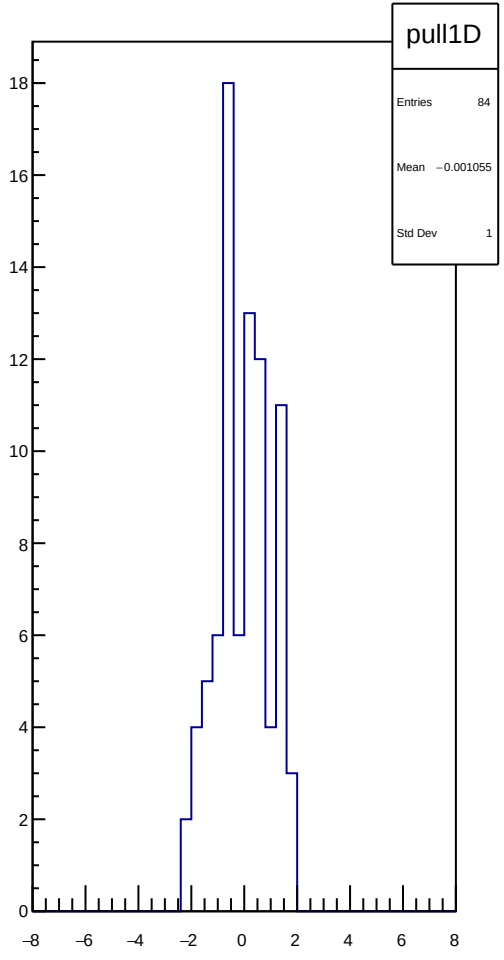

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.017e+06 / 83
p0 7.248e−12 ± 9.283e−15
0.03
0.025
0.02
0.015
0.01
0.005
0

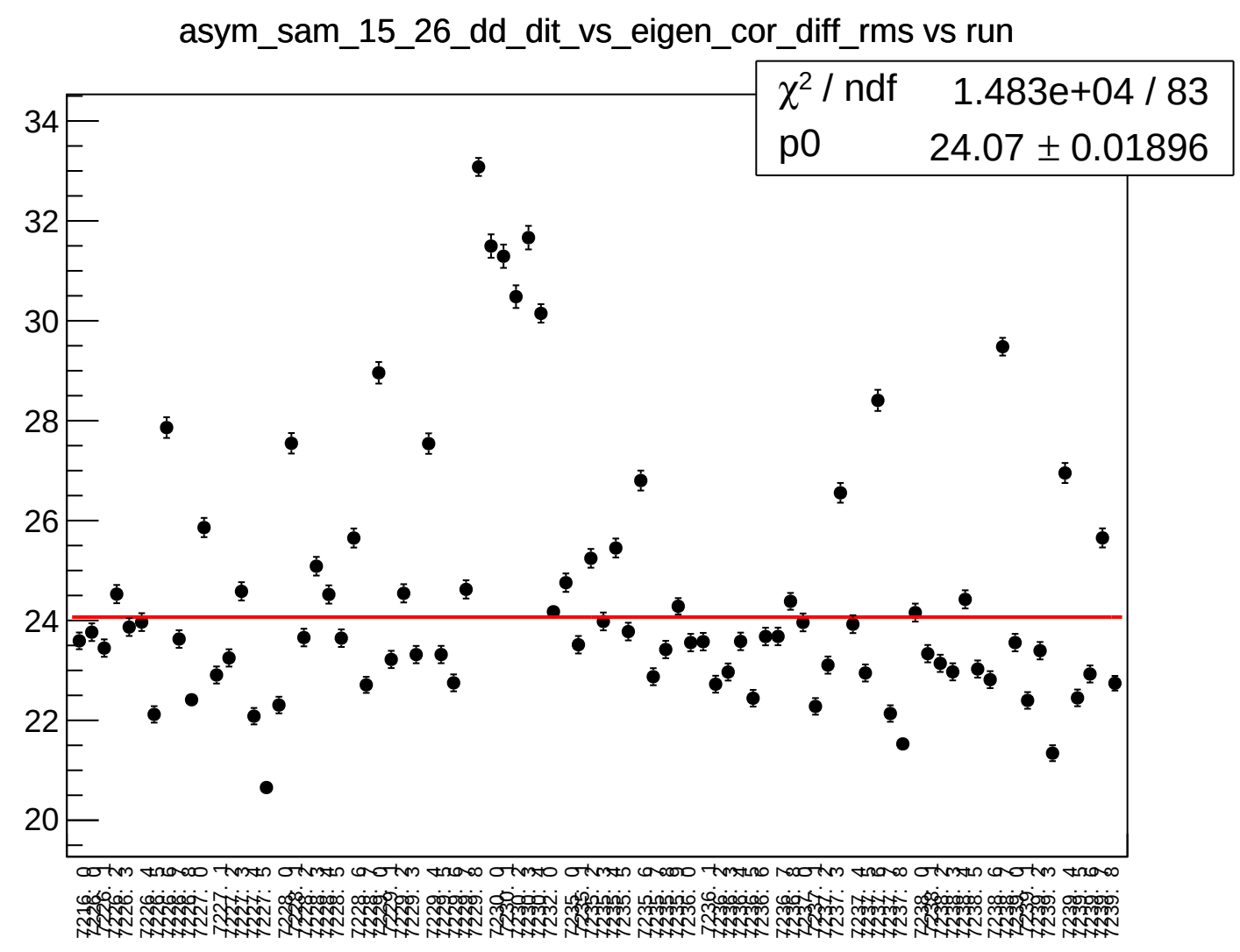

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 84.08 / 83
p0 0.0297 ± 0.02681
pull
Entries 84
Mean −1155
Std Dev 0

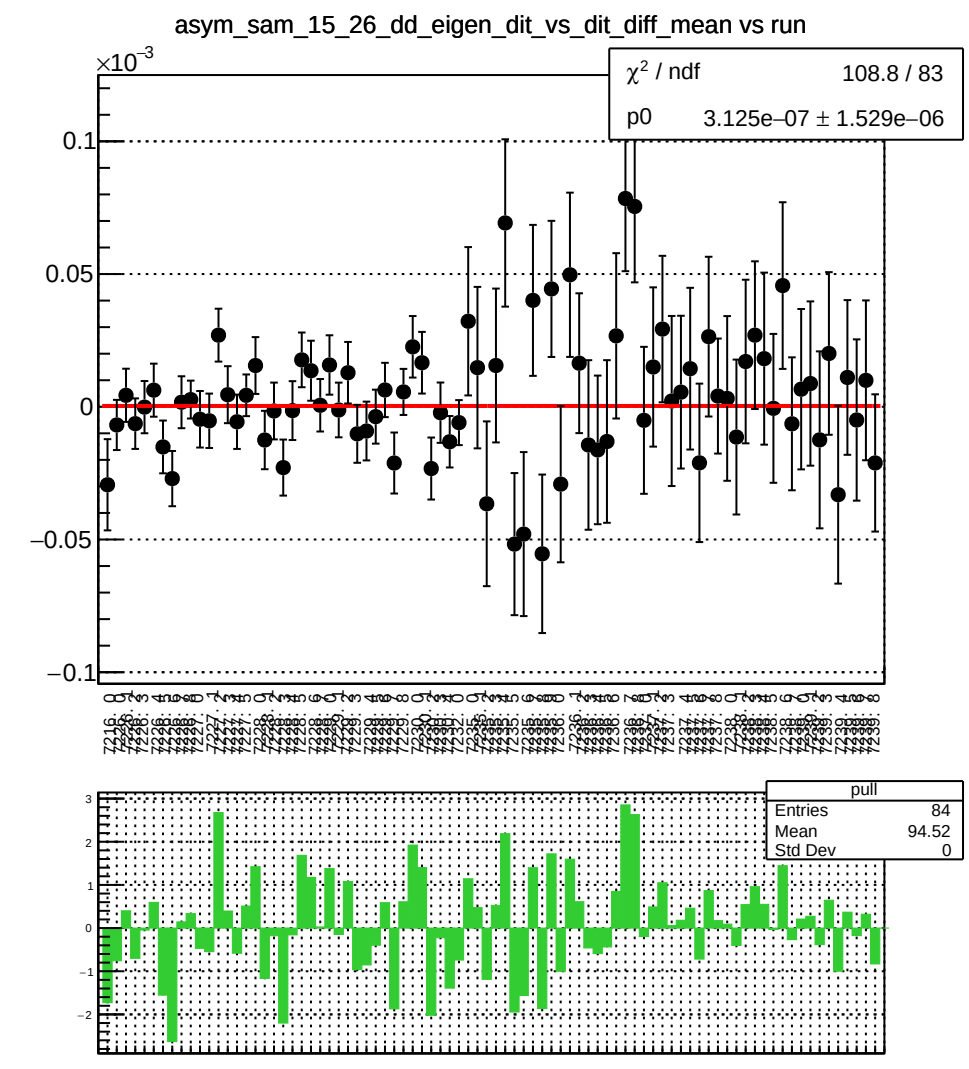

pull1D
Entries 84
Mean −0.001055
Std Dev 1

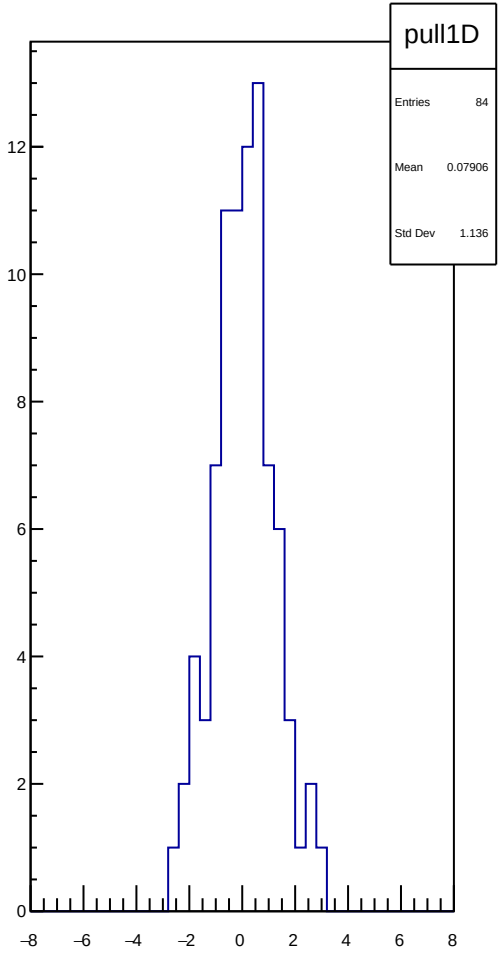

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.483e+04 / 83
p0 24.07 ± 0.01896
34
32
30
28
26
24
22
20

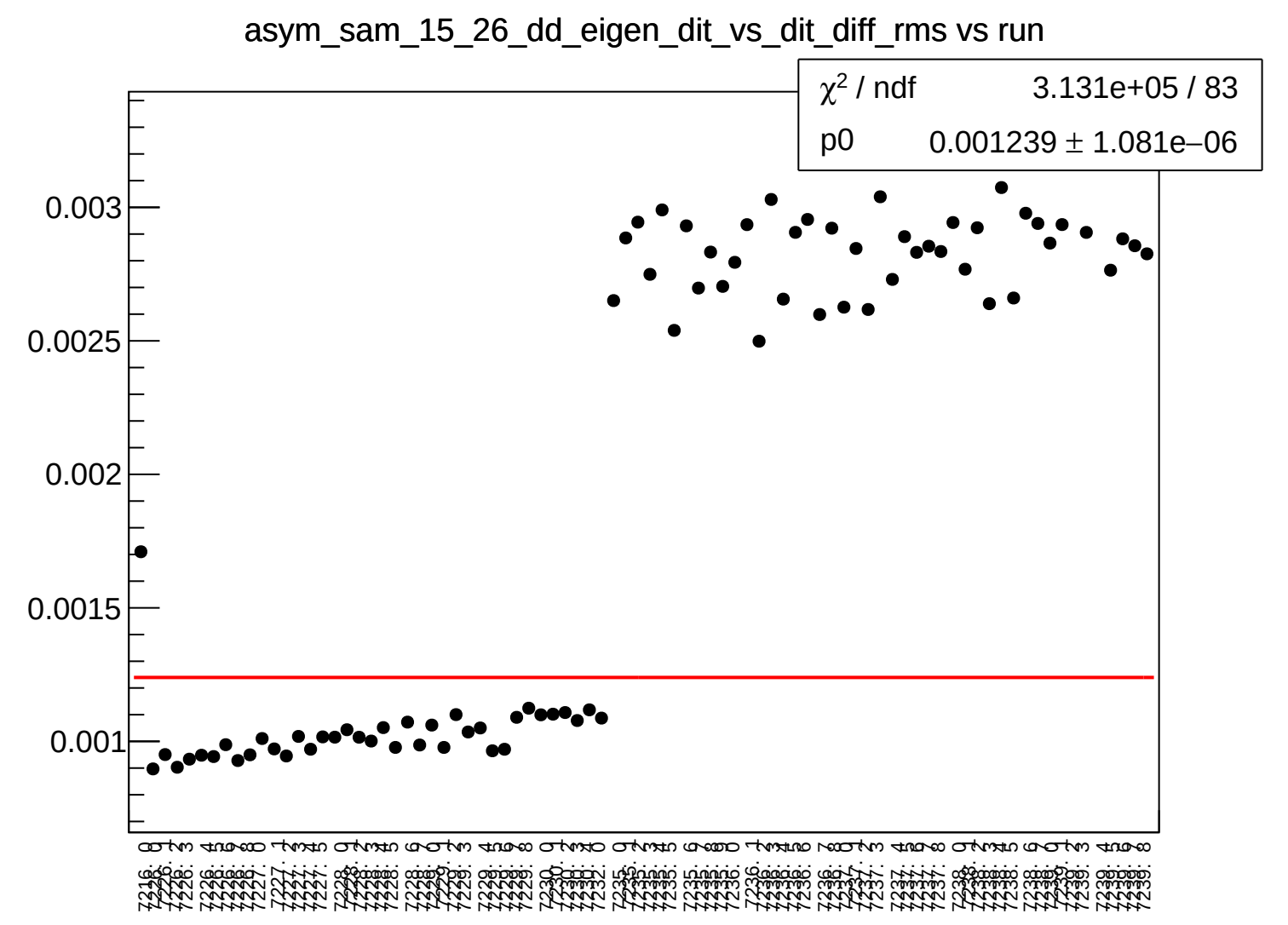

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.08 / 83
p0 0.0297 ± 0.02681
pull
Entries 84
Mean −1155
Std Dev 0

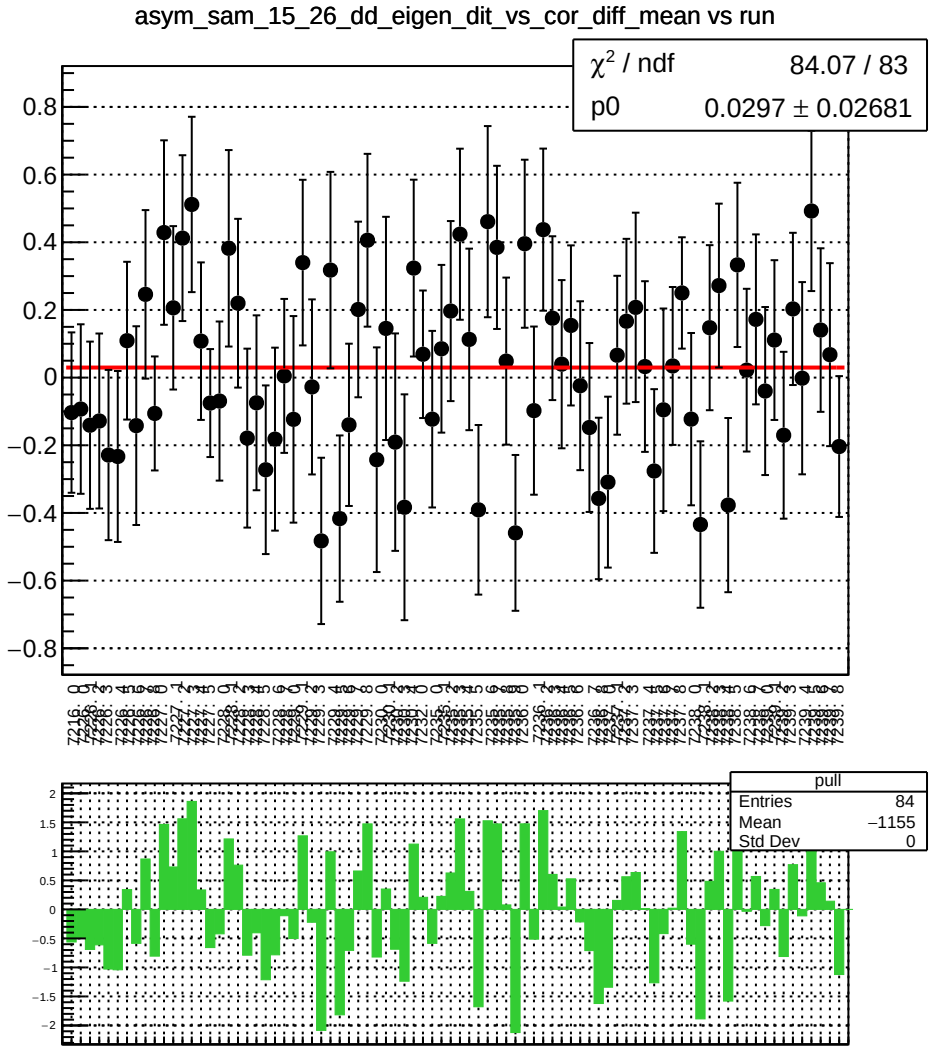

pull1D
Entries 84
Mean −0.001055
Std Dev 1

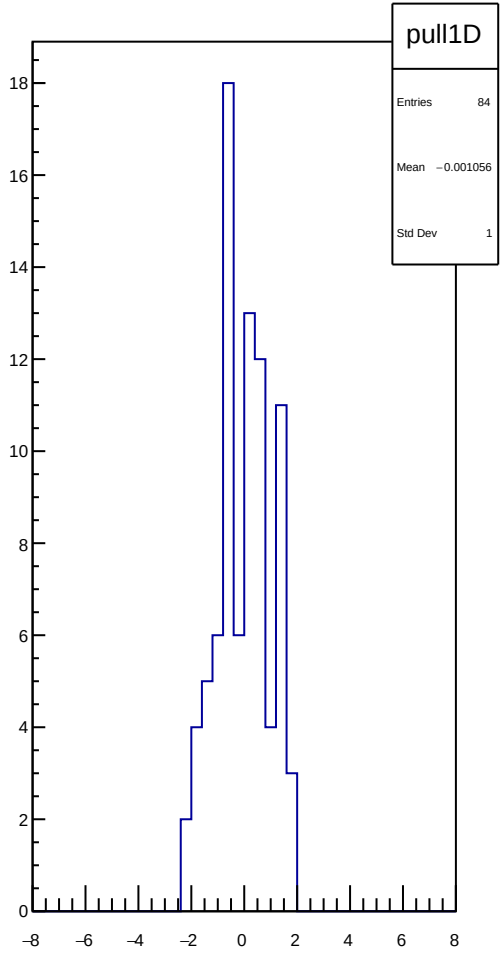

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.483e+04 / 83
p0 24.07 ± 0.01896
34
32
30
28
26
24
22
20

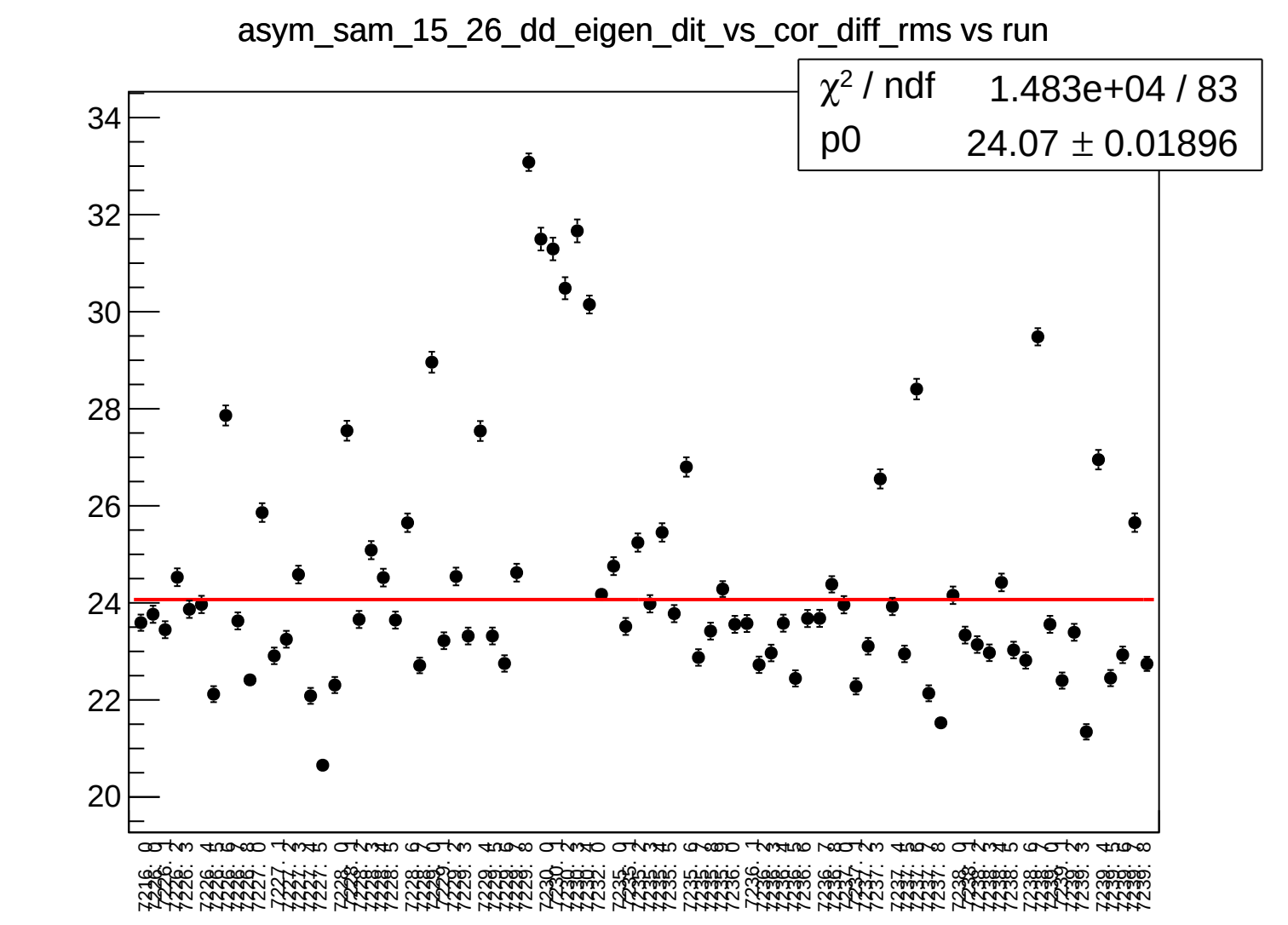

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 108.8 / 83
p0 3.125e−07 ± 1.529e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 84
Mean 94.52
Std Dev 0
3
2
1
0
−1
−2

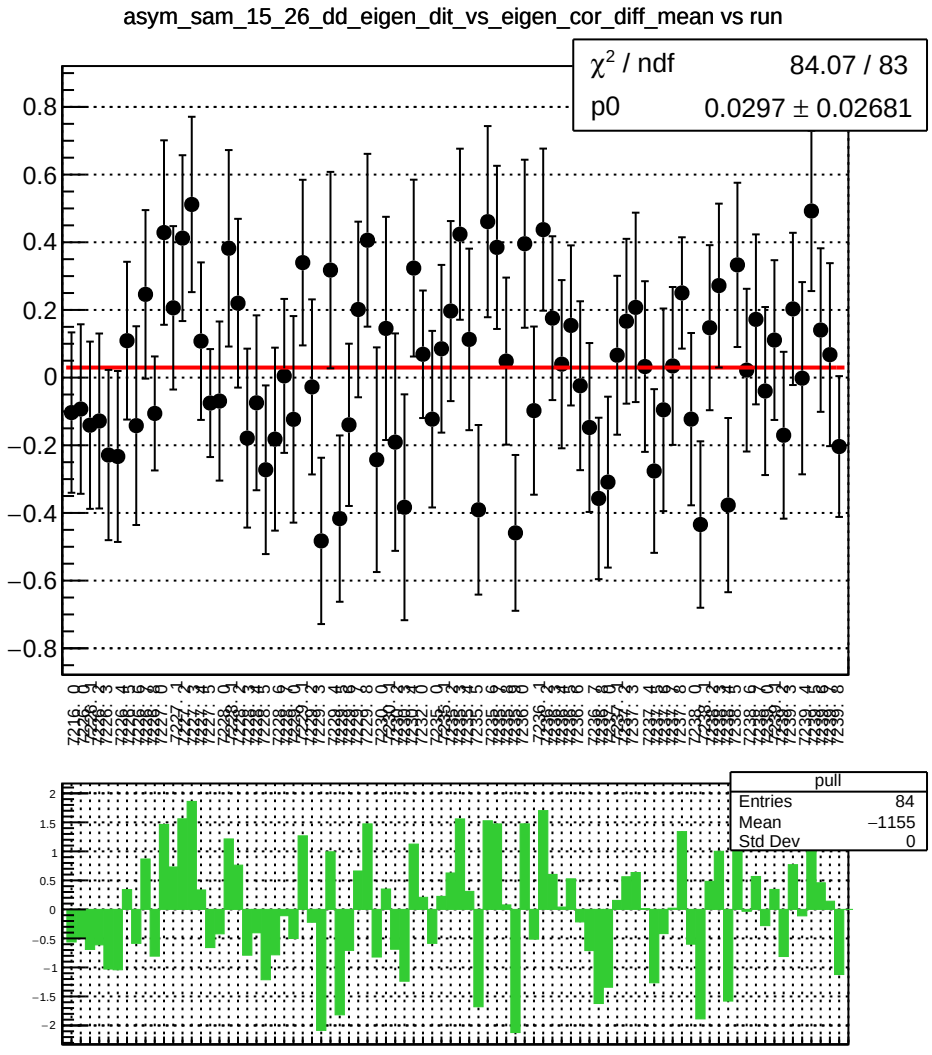

pull1D
Entries 84
Mean 0.07906
Std Dev 1.136
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

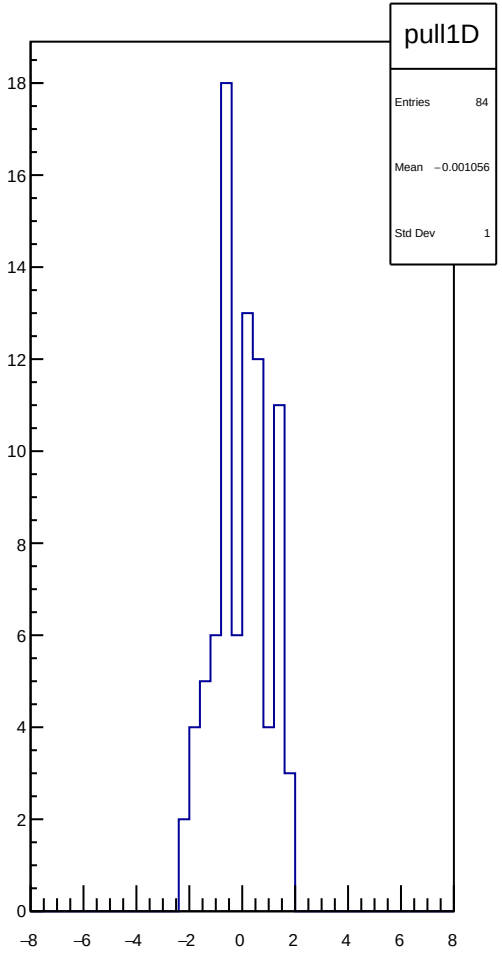

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.131e+05 / 83
p0 0.001239 ± 1.081e−06
0.003
0.0025
0.002
0.0015
0.001

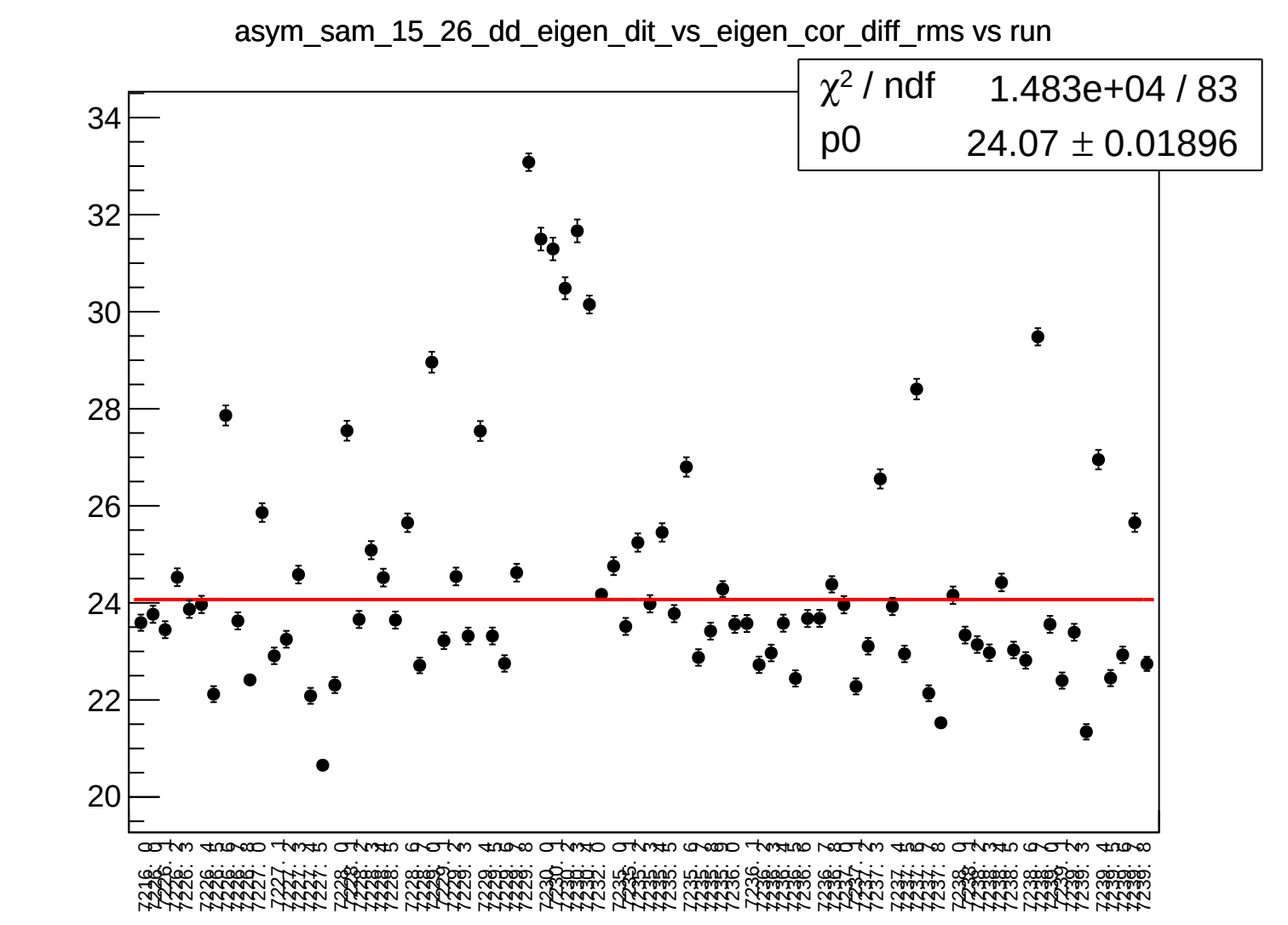

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.07 / 83
p0 0.0297 ± 0.02681
pull
Entries 84
Mean −1155
Std Dev 0

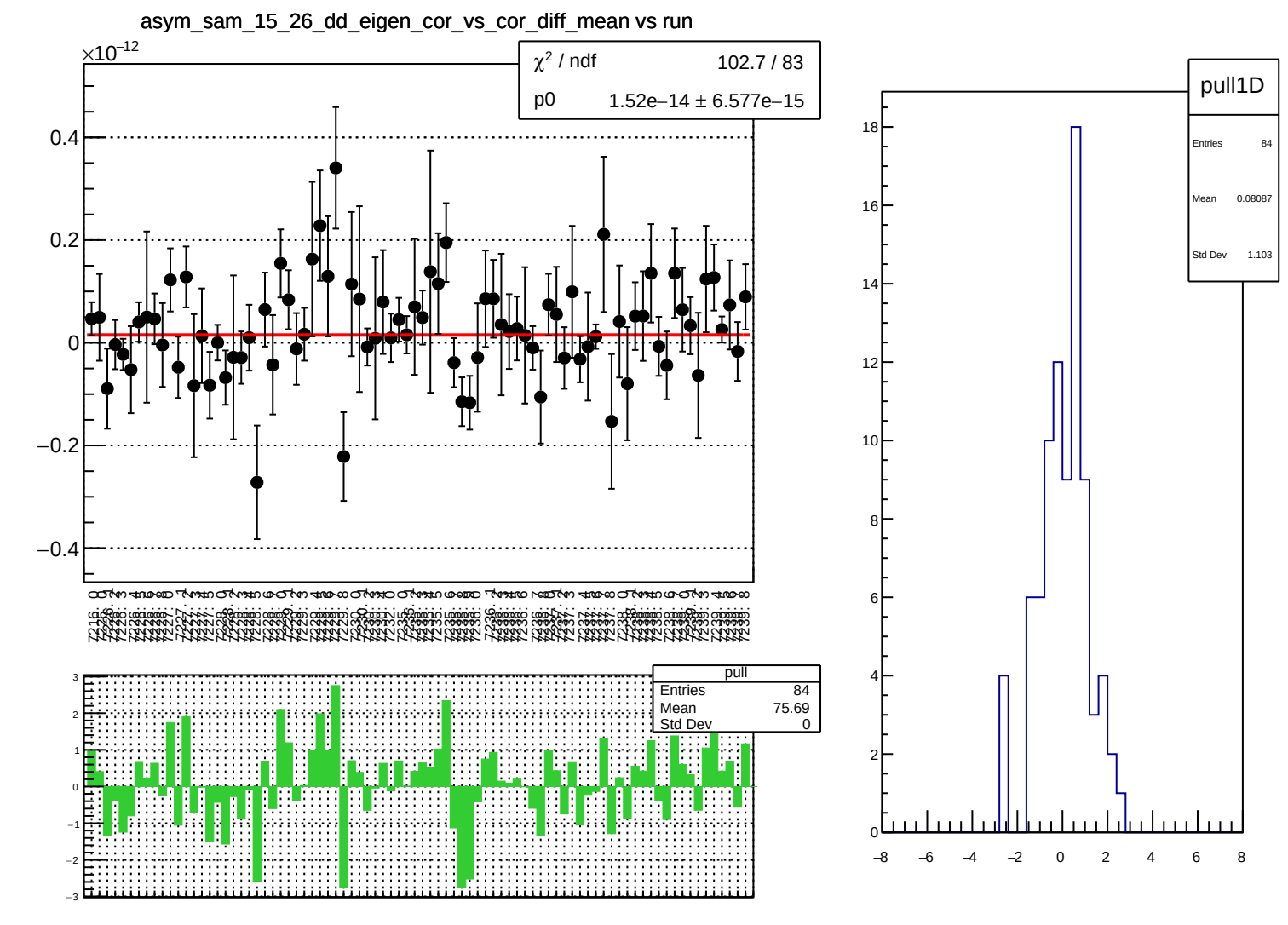

pull1D
Entries 84
Mean −0.001056
Std Dev 1

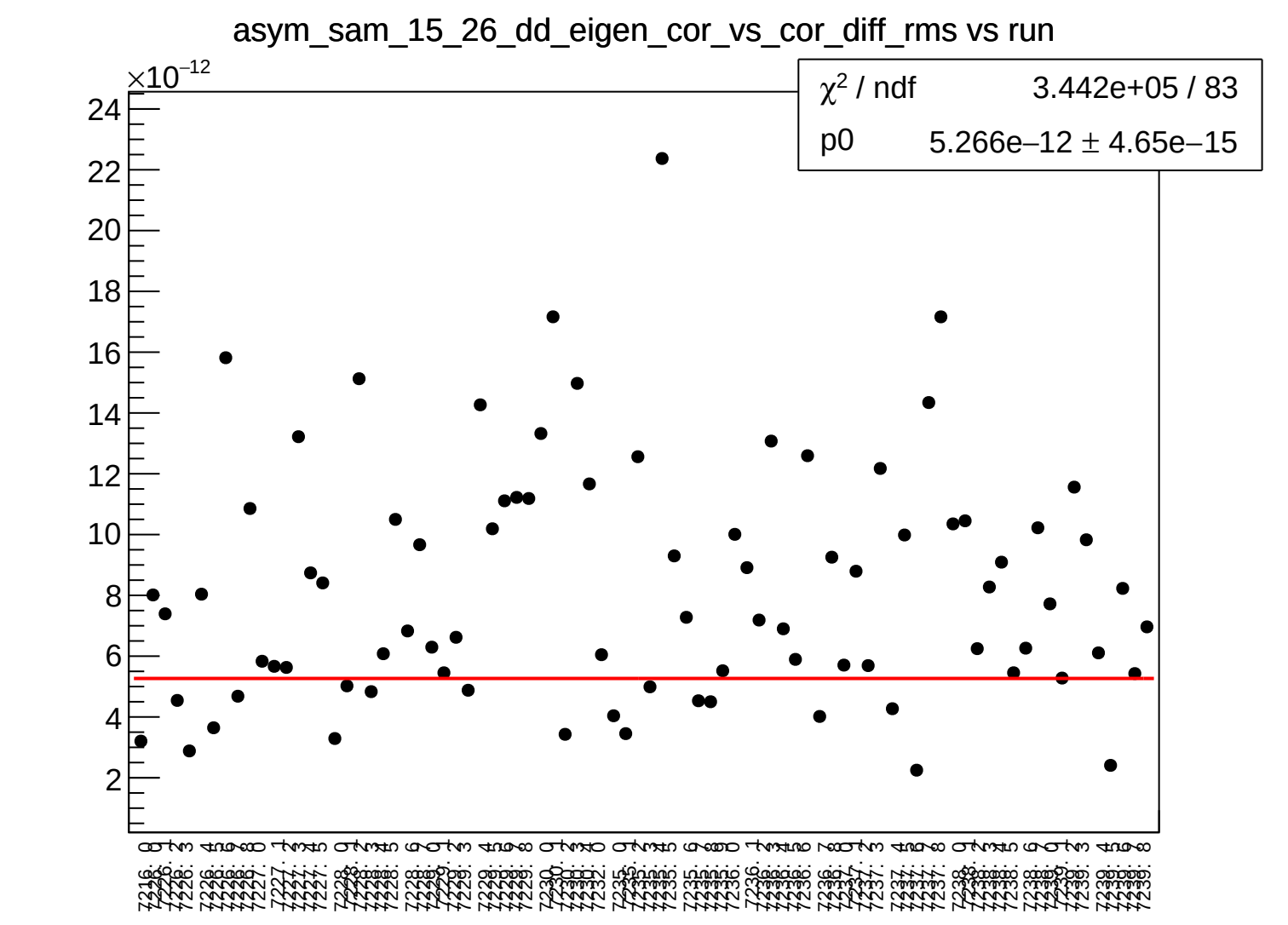

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.483e+04 / 83
p0 24.07 ± 0.01896
34
32
30
28
26
24
22
20

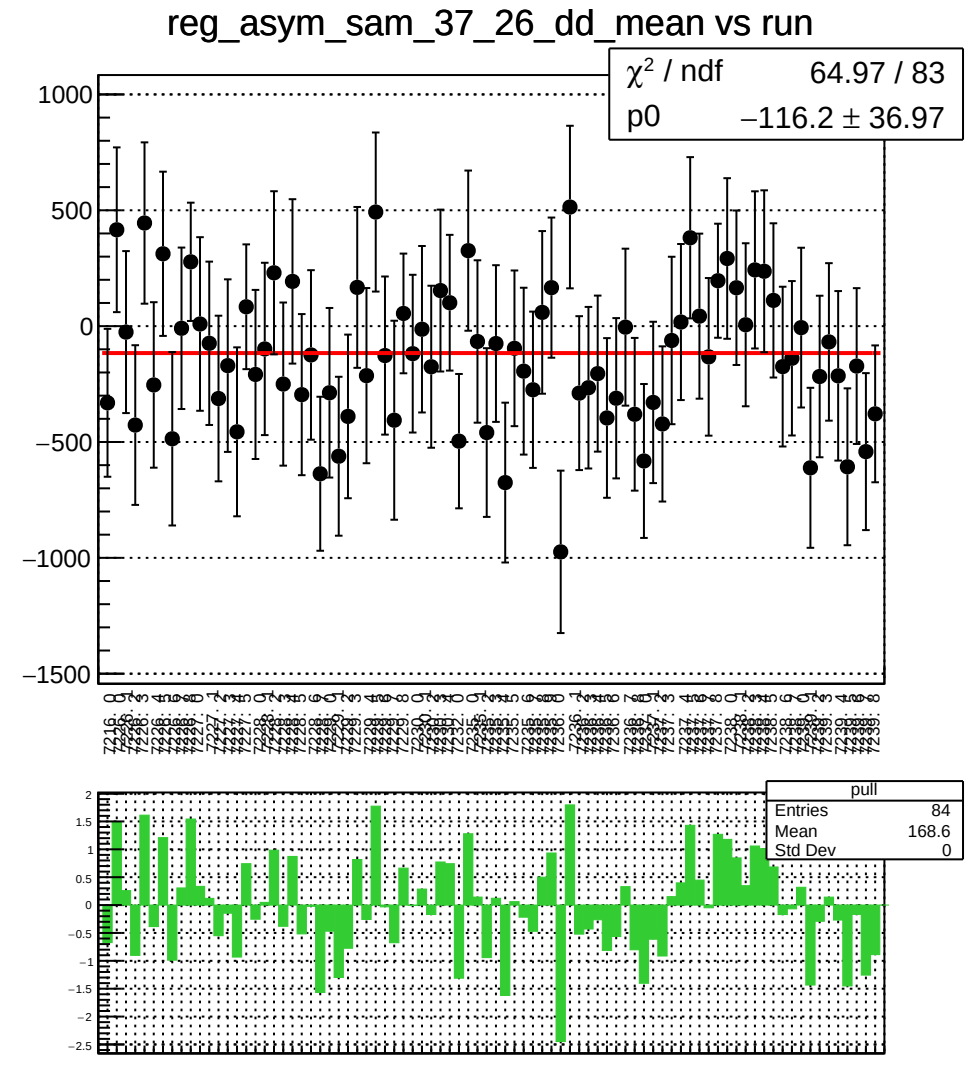

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.07 / 83
p0 0.0297 ± 0.02681
pull
Entries 84
Mean −1155
Std Dev 0

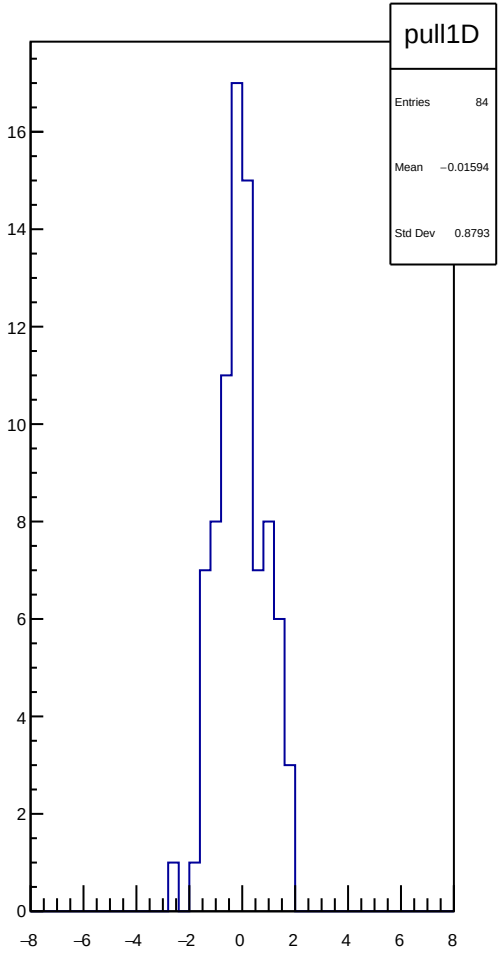

pull1D
Entries 84
Mean −0.001056
Std Dev 1

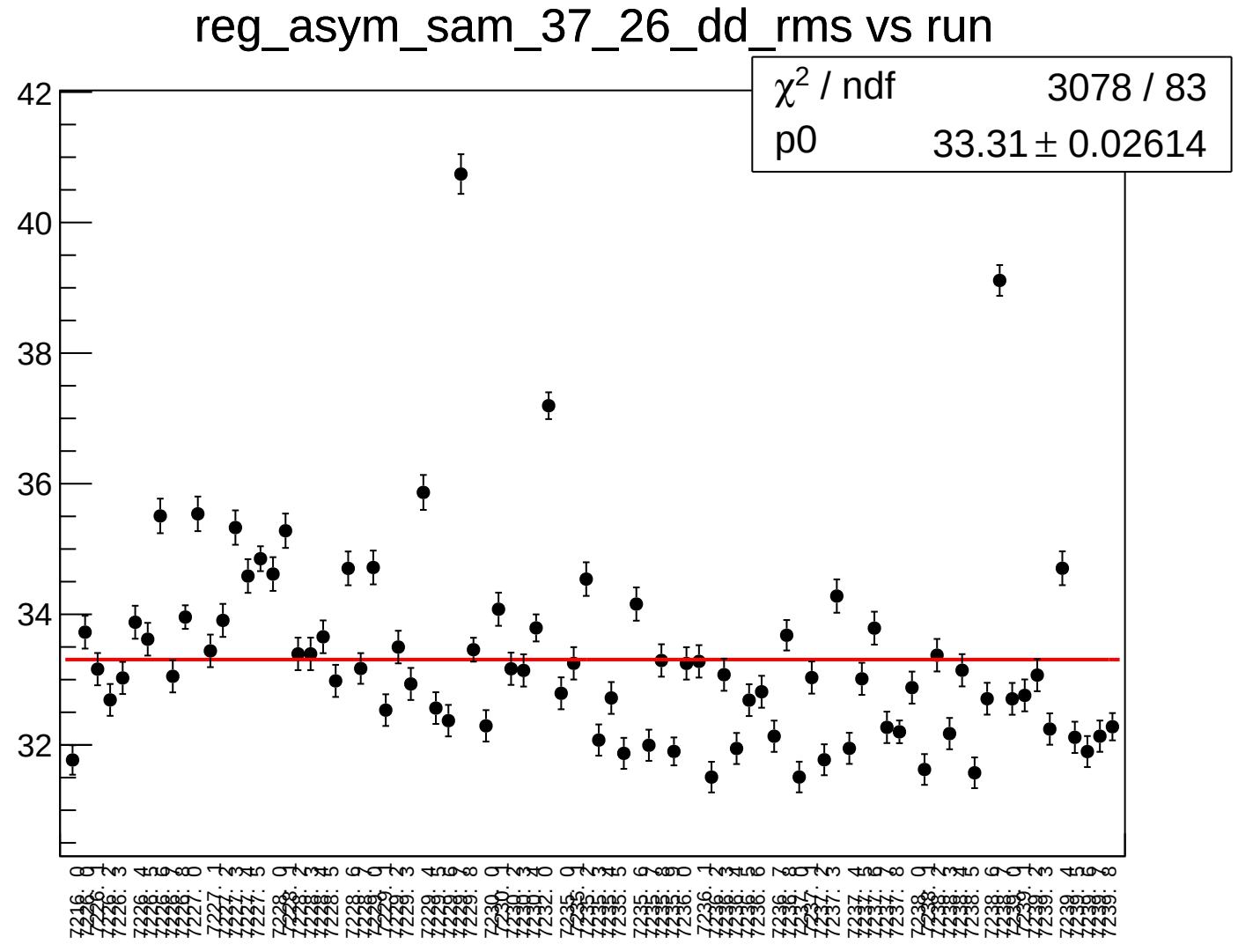

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.483e+04 / 83
p0 24.07 ± 0.01896
34
32
30
28
26
24
22
20

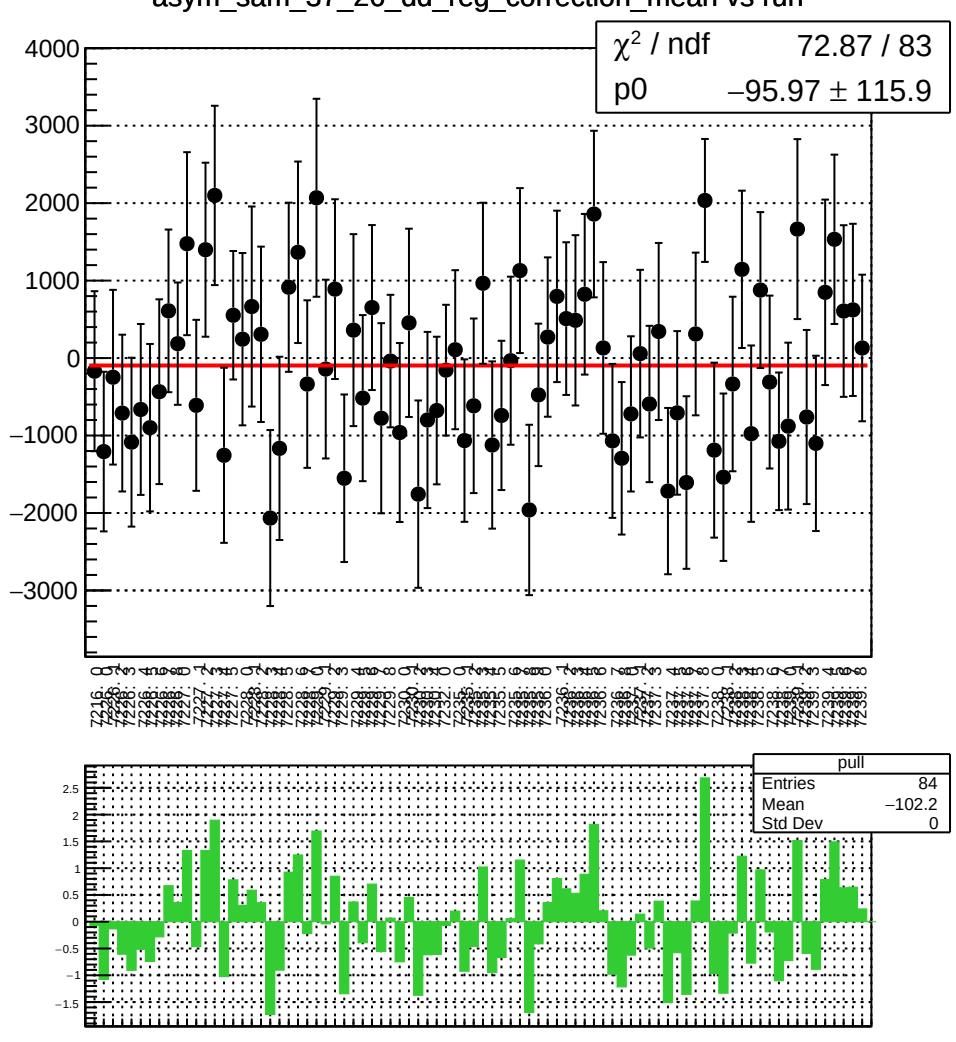

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 102.7 / 83
p0 1.52e−14 ± 6.577e−15
0.4
0.2
0
−0.2
−0.4
pull
Entries 84
Mean 75.69
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean 0.08087
Std Dev 1.103
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

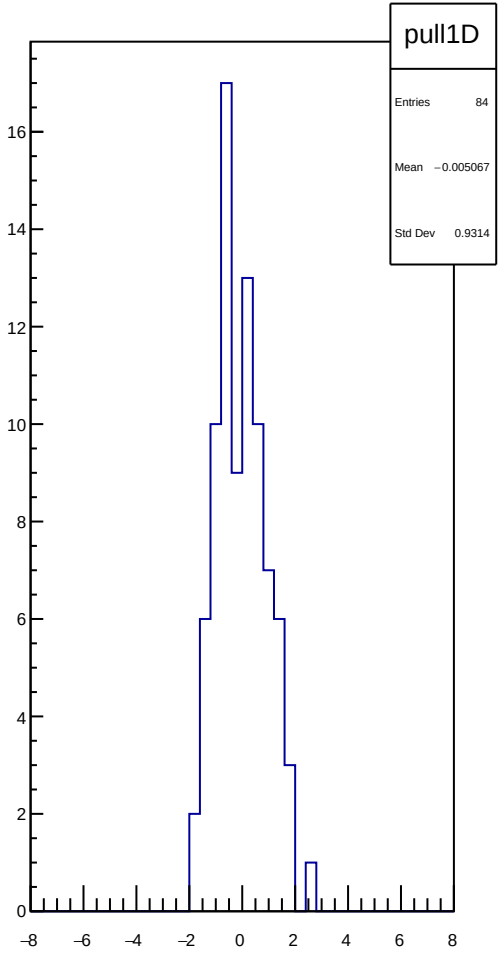

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.442e+05 / 83
p0 5.266e−12 ± 4.65e−15
24
22
20
18
16
14
12
10
8
6
4
2

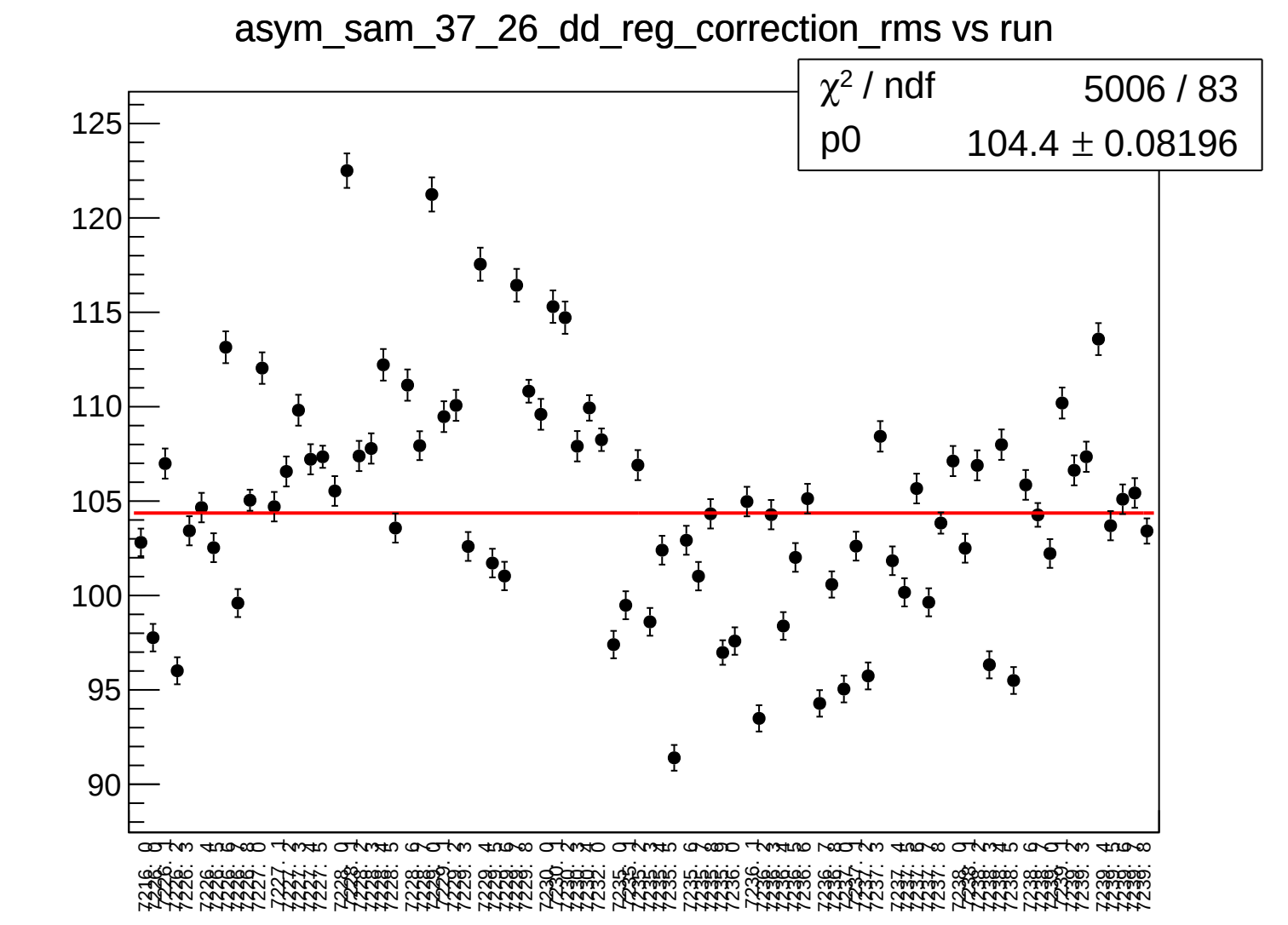

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 64.97 / 83
p0 −116.2 ± 36.97
pull
Entries 84
Mean 168.6
Std Dev 0

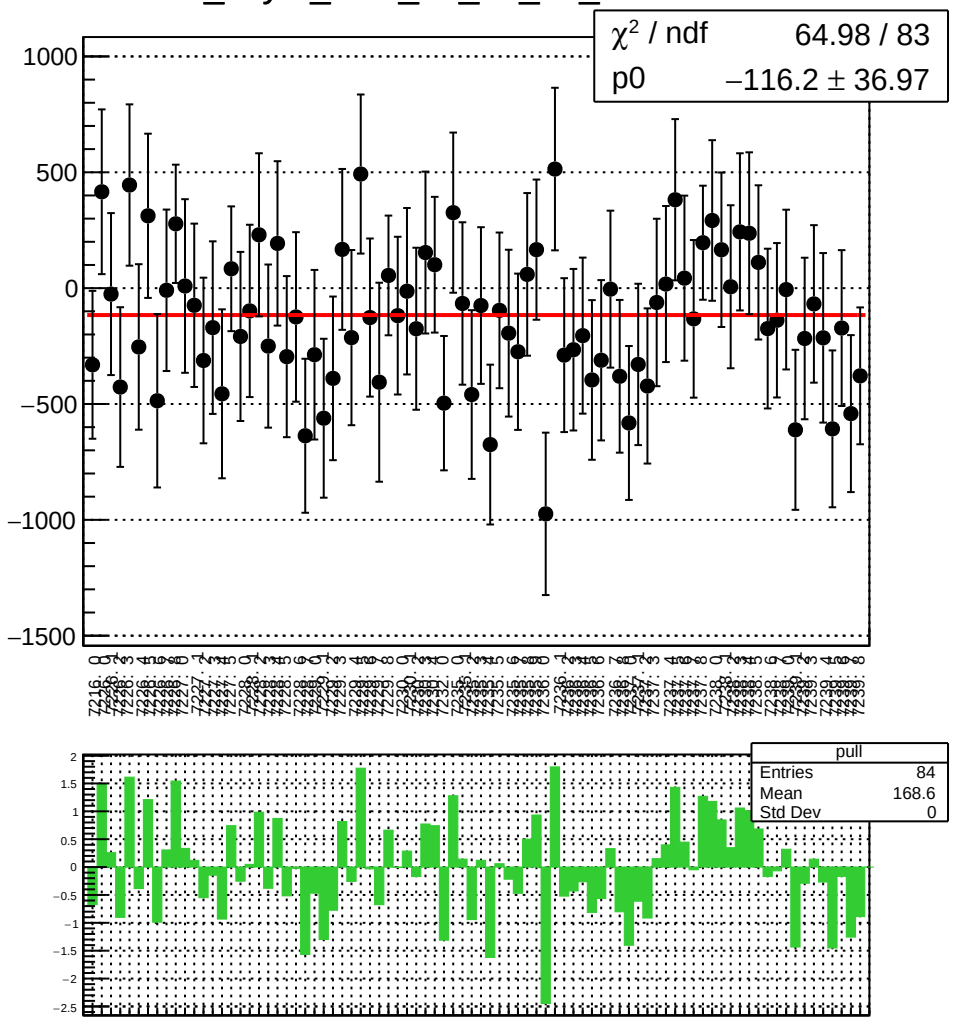

pull1D
Entries 84
Mean −0.01594
Std Dev 0.8793

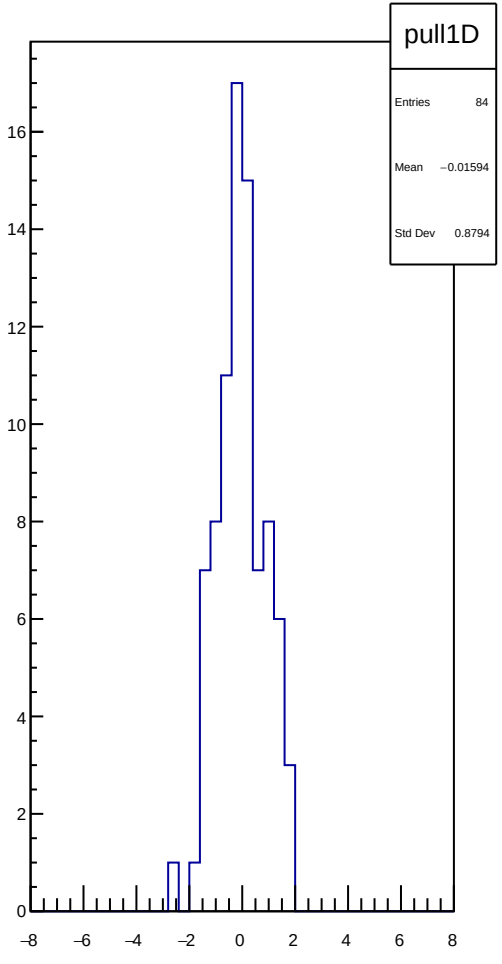

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 3078 / 83
p0 33.31 ± 0.02614
42
40
38
36
34
32

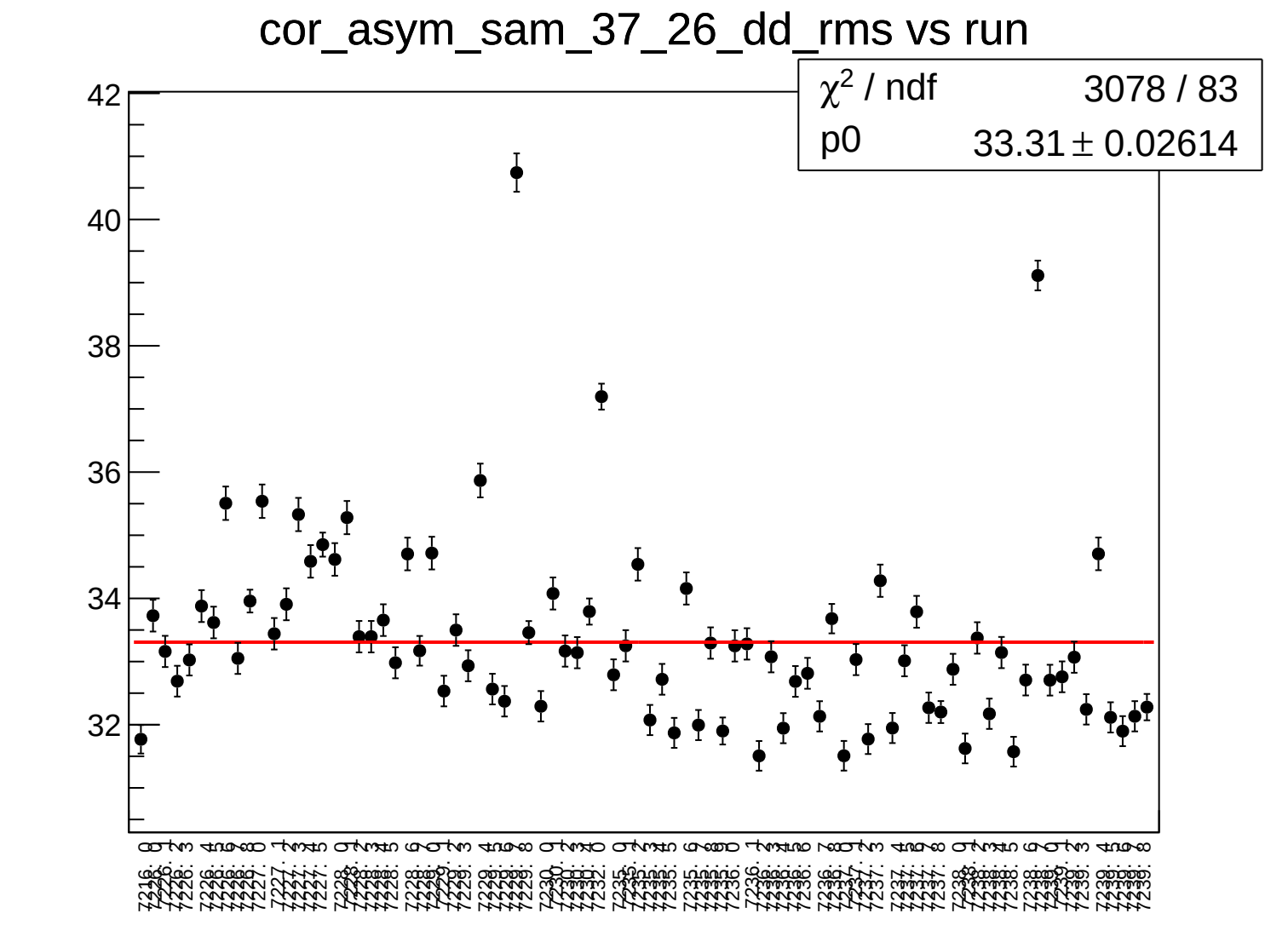

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 72.87 / 83
p0 −95.97 ± 115.9
pull
Entries 84
Mean −102.2
Std Dev 0

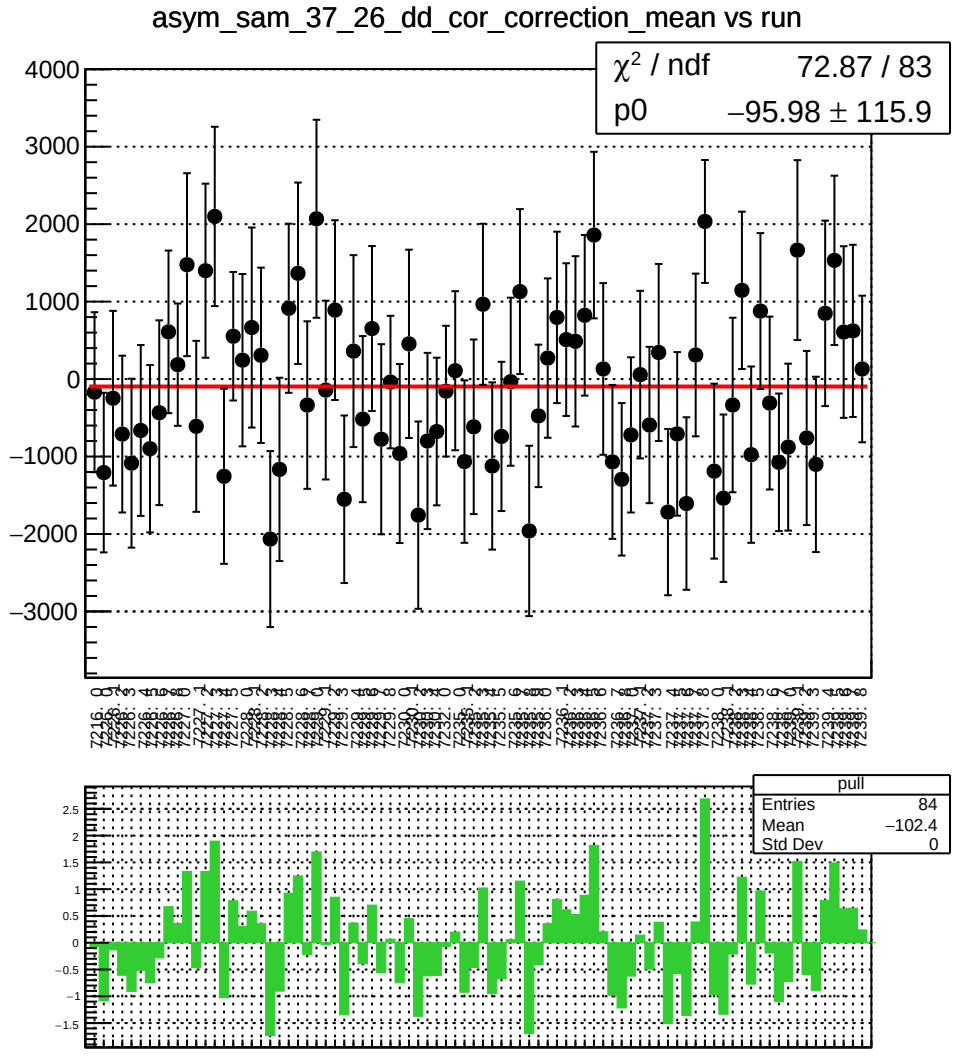

pull1D
Entries 84
Mean −0.005067
Std Dev 0.9314

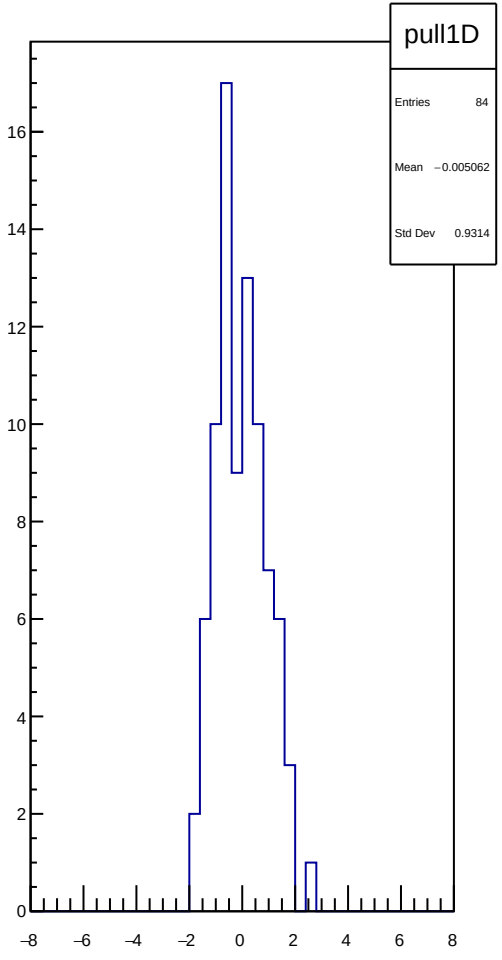

asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 5006 / 83
p0 104.4 ± 0.08196
125
120
115
110
105
100
95
90

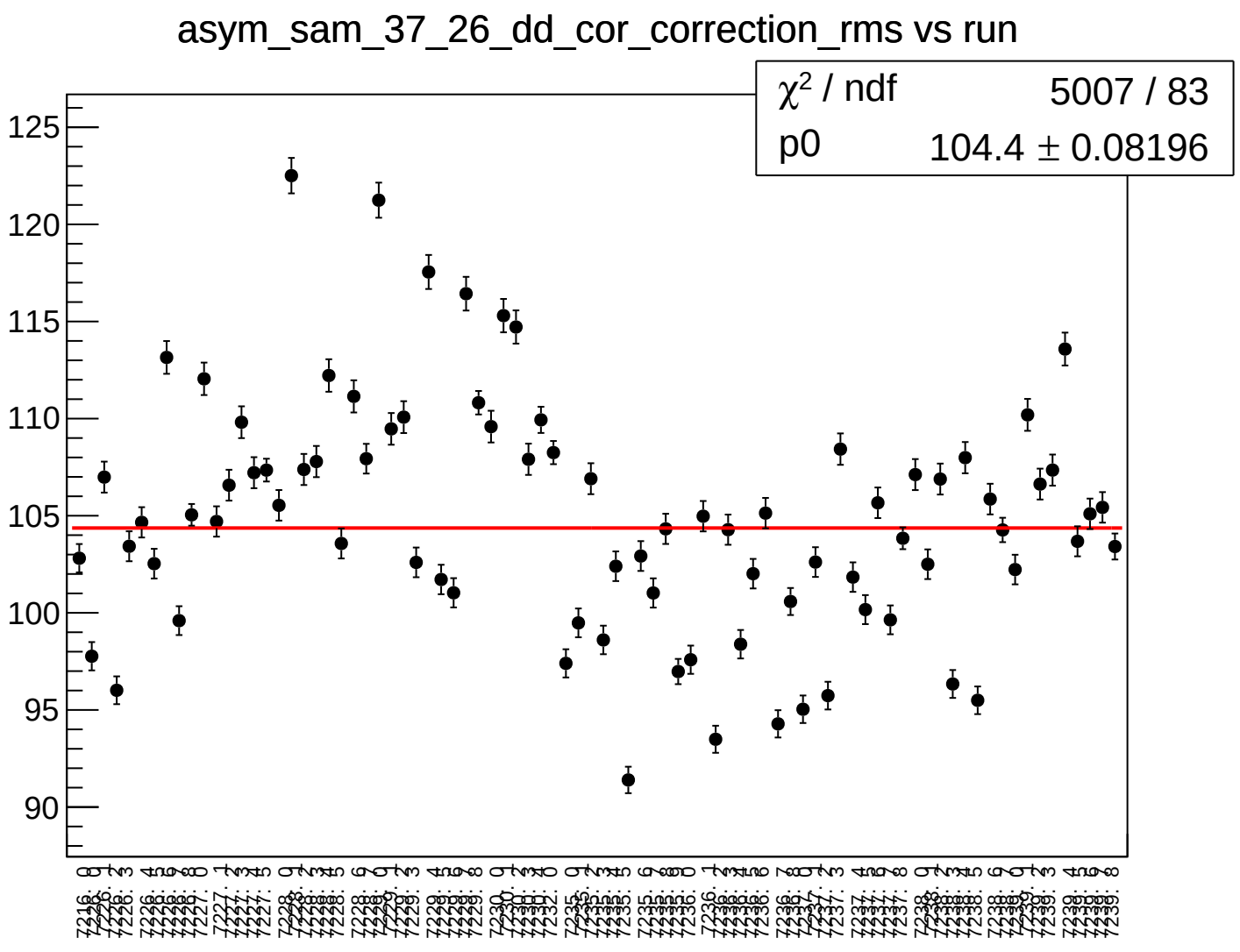

cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 64.98 / 83
p0 −116.2 ± 36.97
pull
Entries 84
Mean 168.6
Std Dev 0

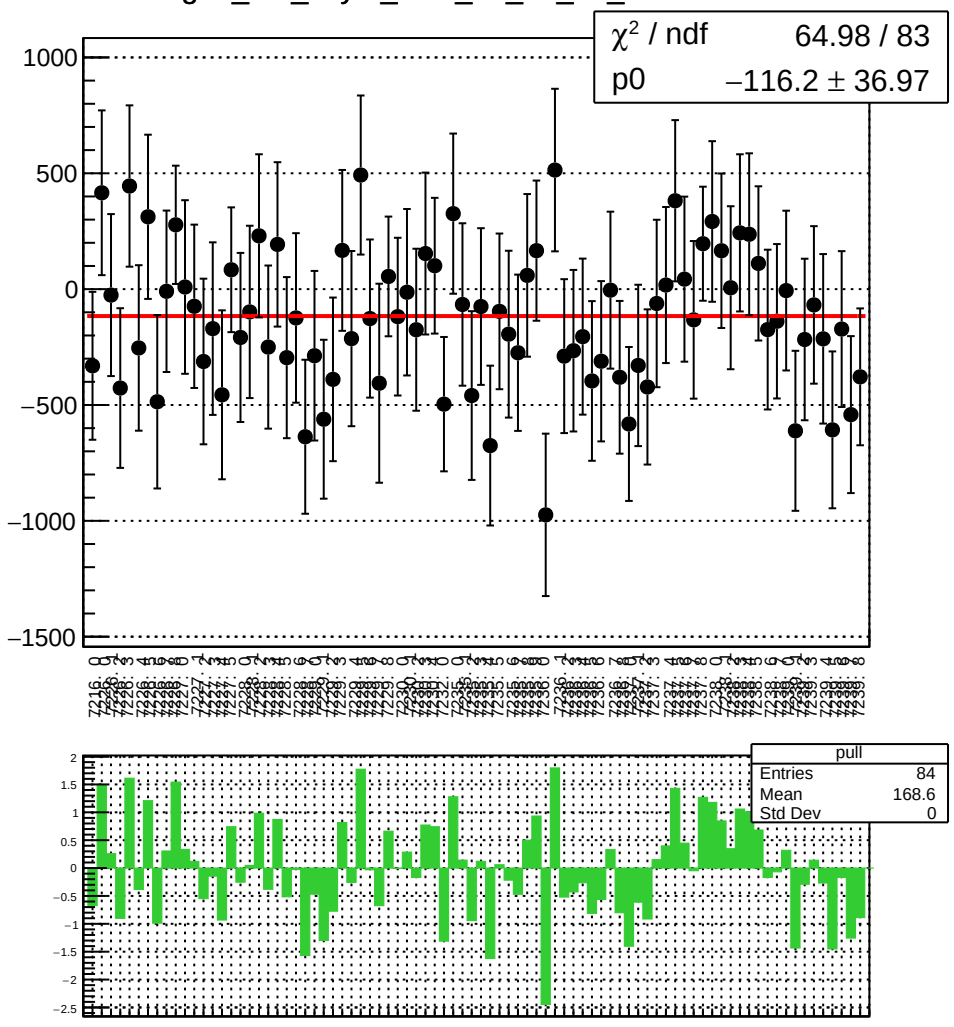

pull1D
Entries 84
Mean −0.01594
Std Dev 0.8794

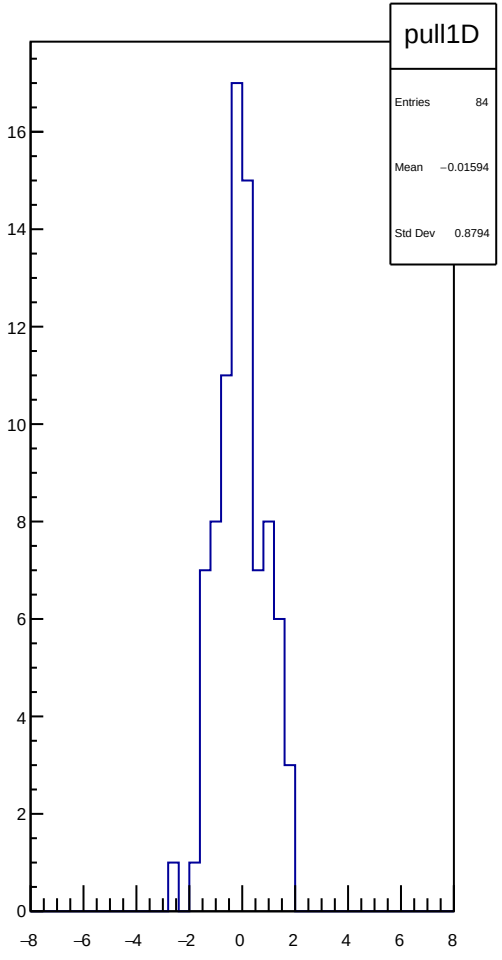

cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 3078 / 83
p0 33.31 ± 0.02614
42
40
38
36
34
32

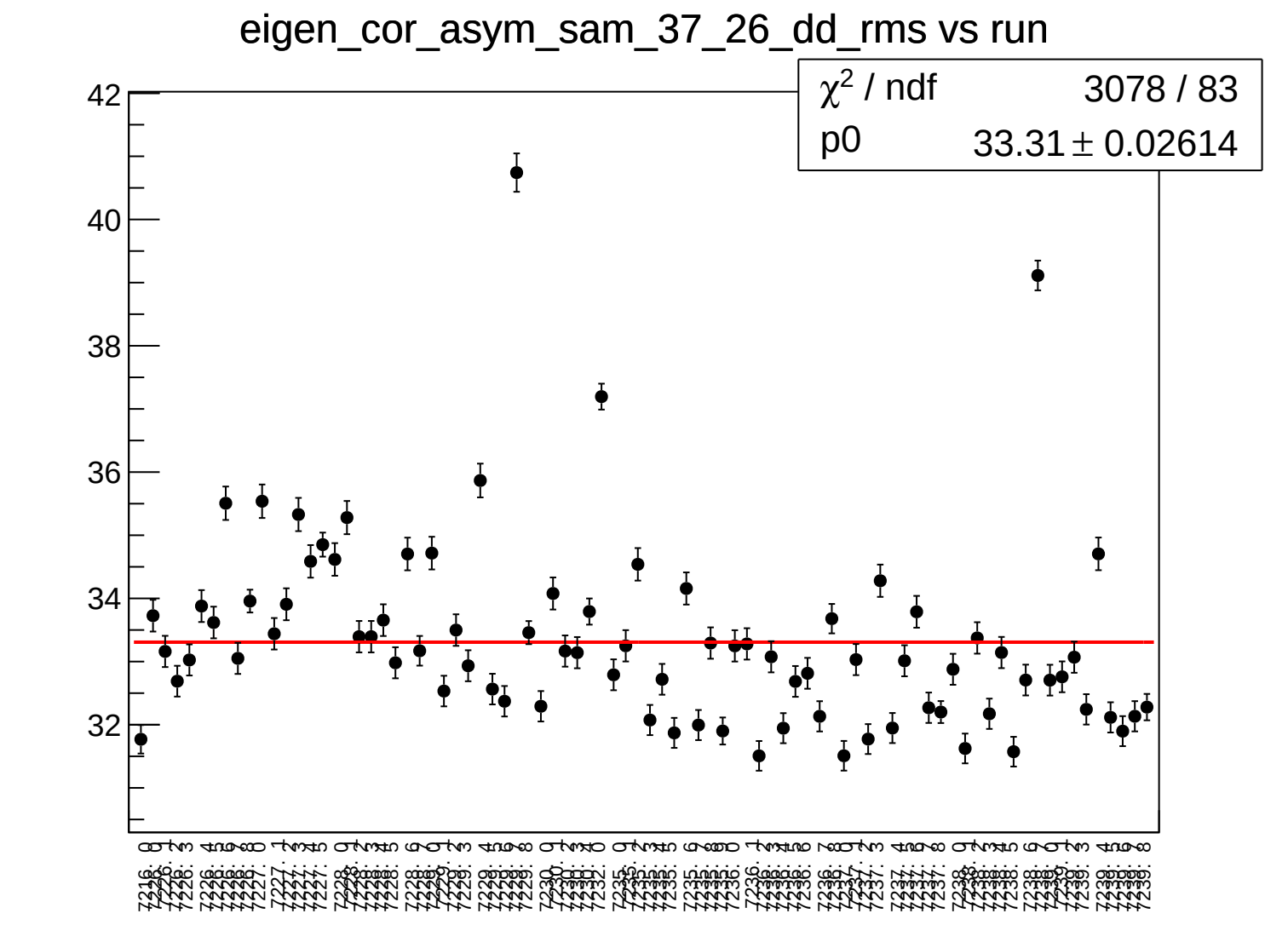

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 72.87 / 83
p0 −95.98 ± 115.9
pull
Entries 84
Mean −102.4
Std Dev 0

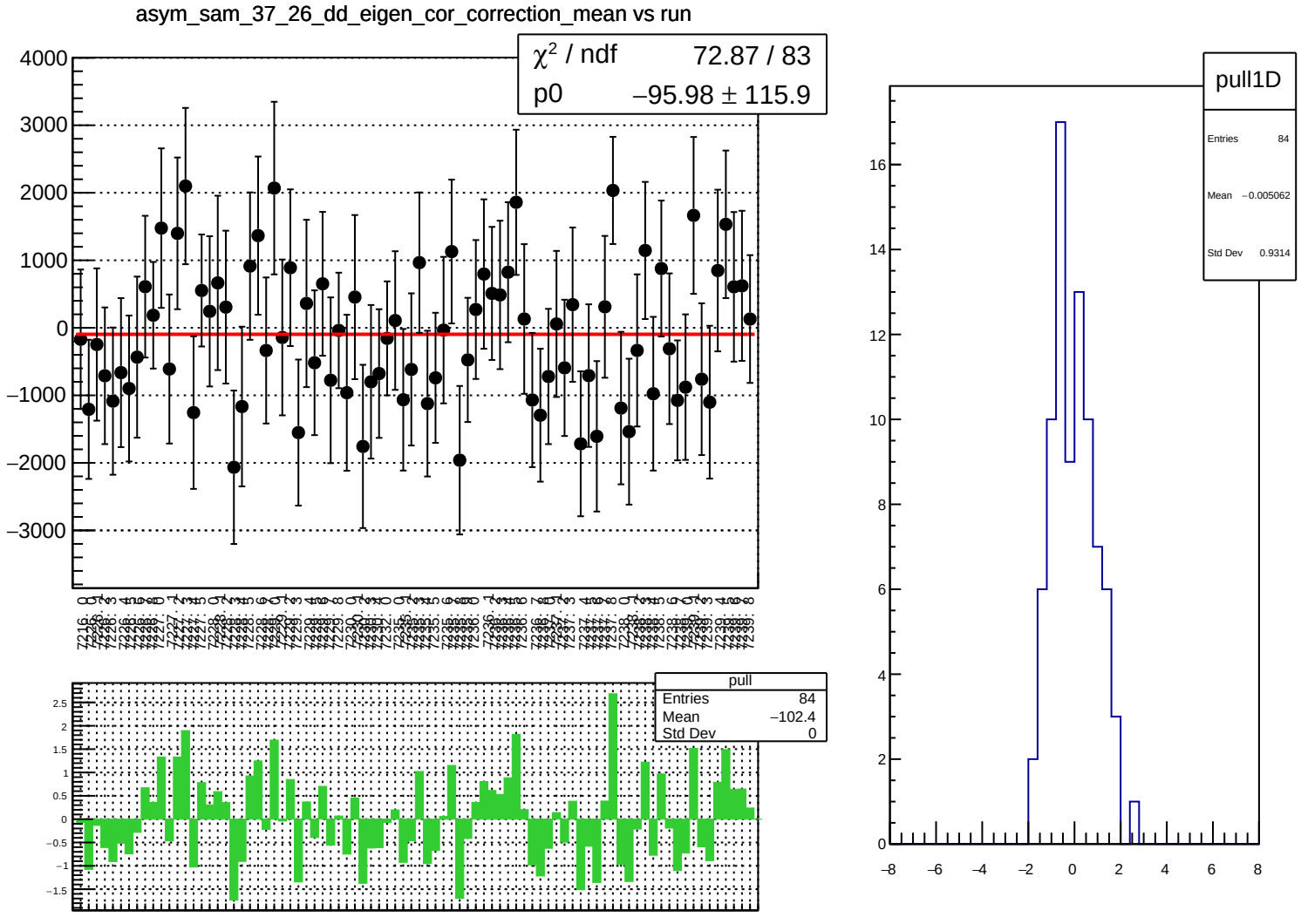

pull1D
Entries 84
Mean −0.005062
Std Dev 0.9314

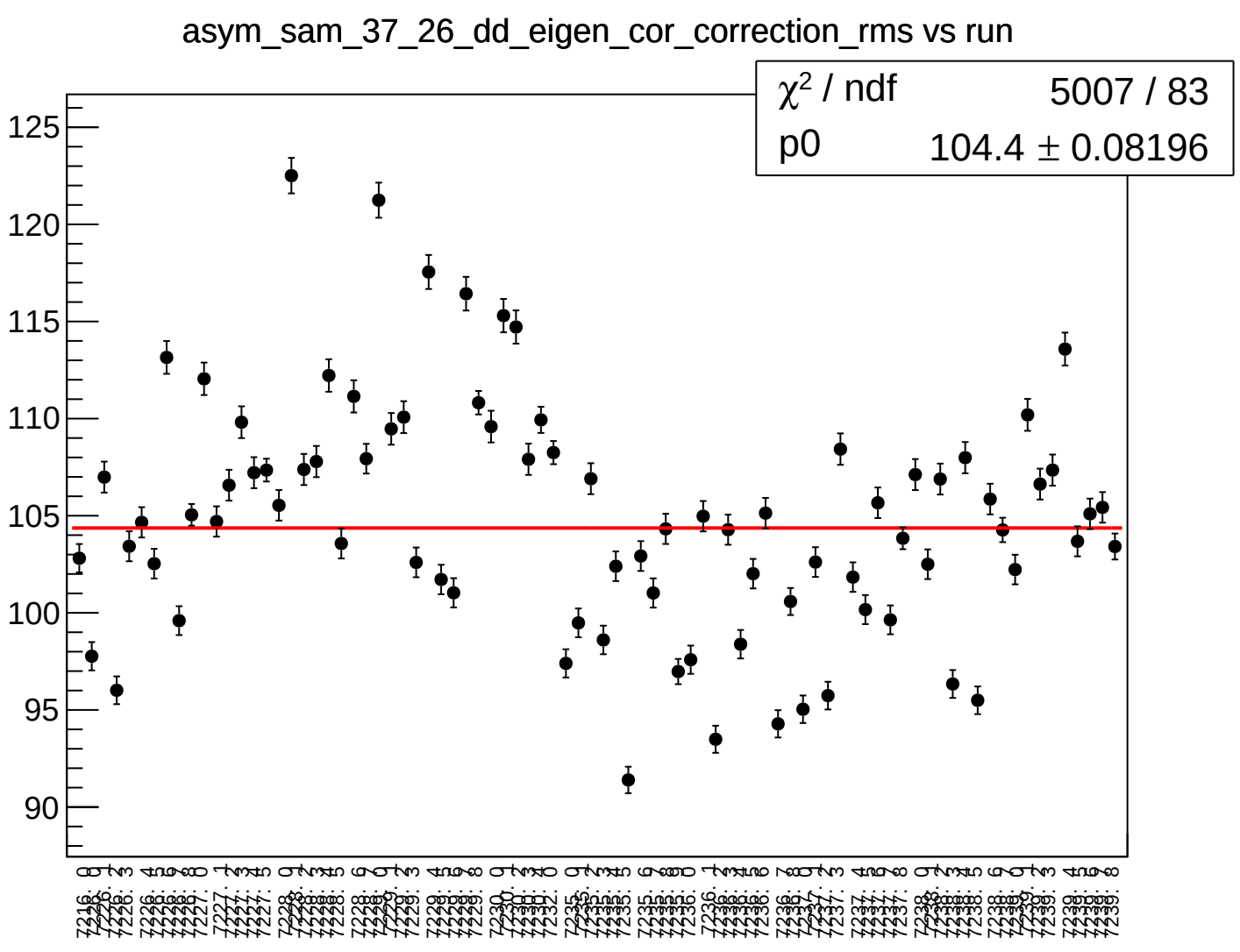

asym_sam_37_26_dd_cor_correction_rms vs run
χ² / ndf 5007 / 83
p0 104.4 ± 0.08196
125
120
115
110
105
100
95
90

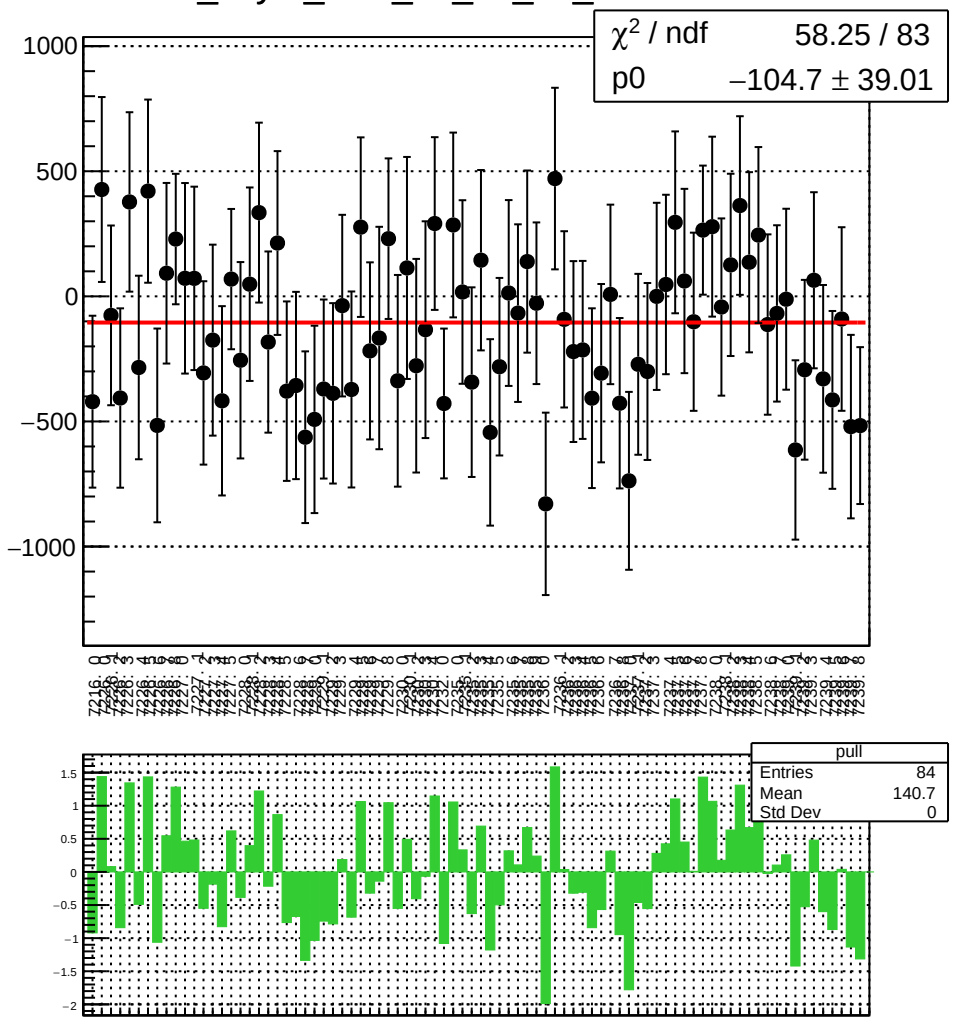

eigen_cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 64.98 / 83
p0 −116.2 ± 36.97
pull
Entries 84
Mean 168.6
Std Dev 0

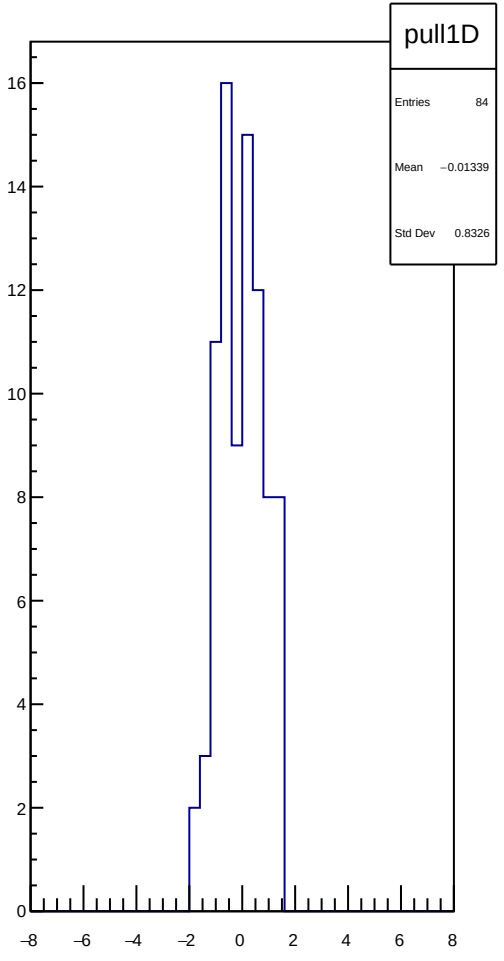

pull1D
Entries 84
Mean −0.01594
Std Dev 0.8794

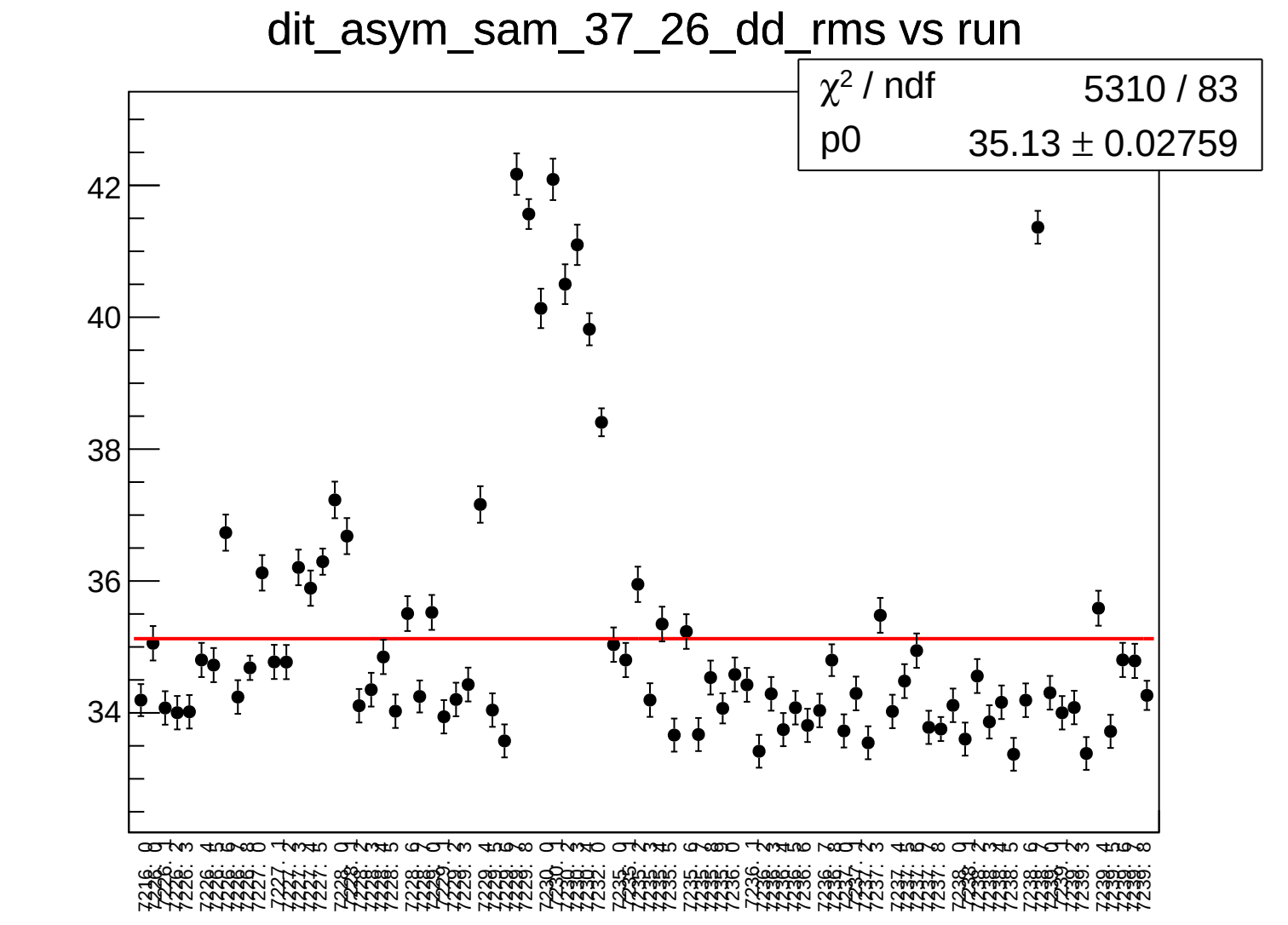

eigen_cor_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 3078 / 83
p0 33.31 ± 0.02614
42
40
38
36
34
32

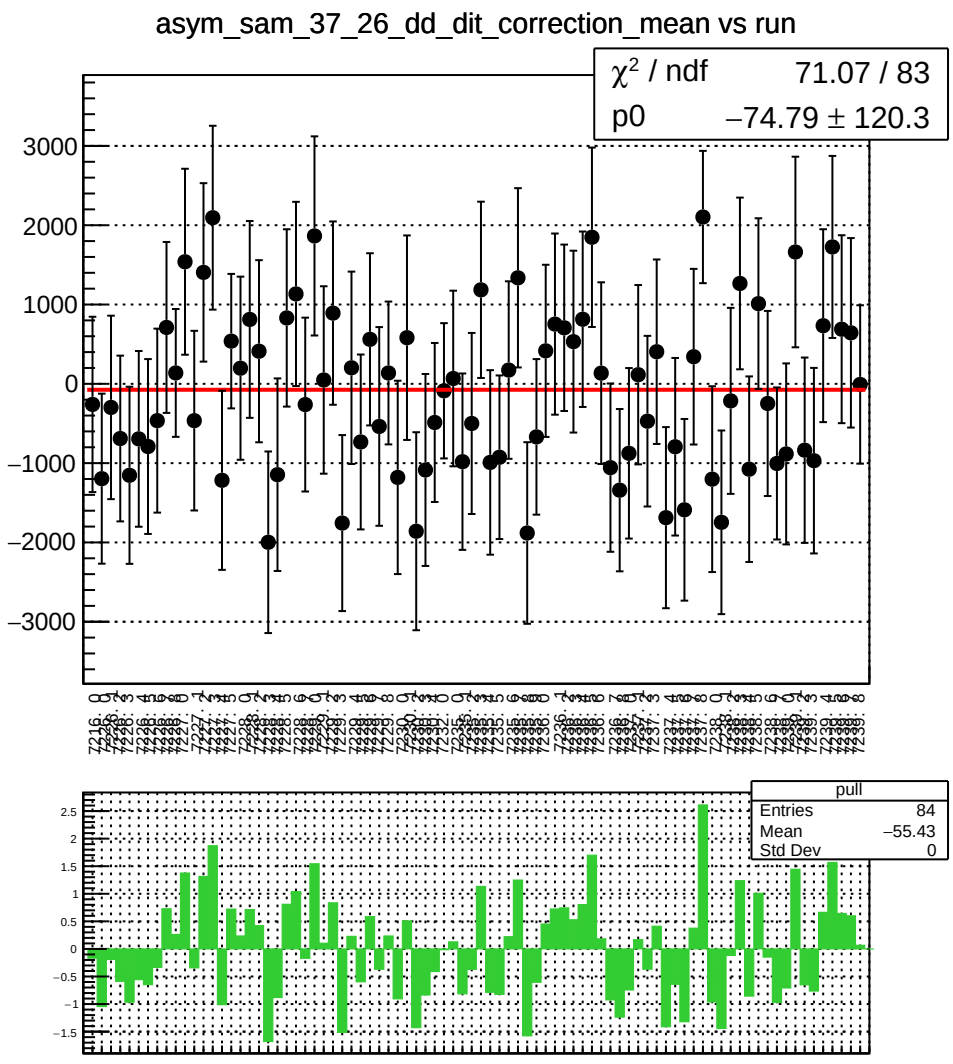

asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 72.87 / 83
p0 −95.98 ± 115.9
pull
Entries 84
Mean −102.4
Std Dev 0
pull1D
Entries 84
Mean −0.005062
Std Dev 0.9314

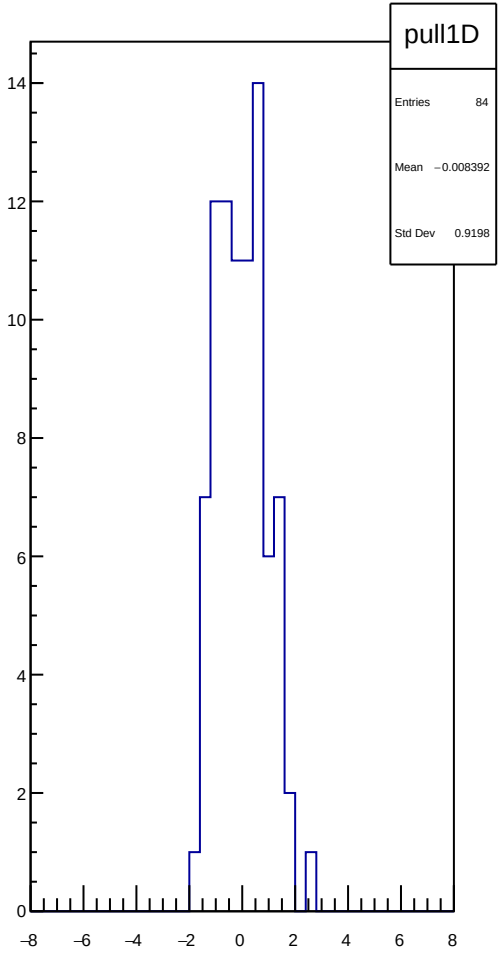

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 5007 / 83
p0 104.4 ± 0.08196
125
120
115
110
105
100
95
90

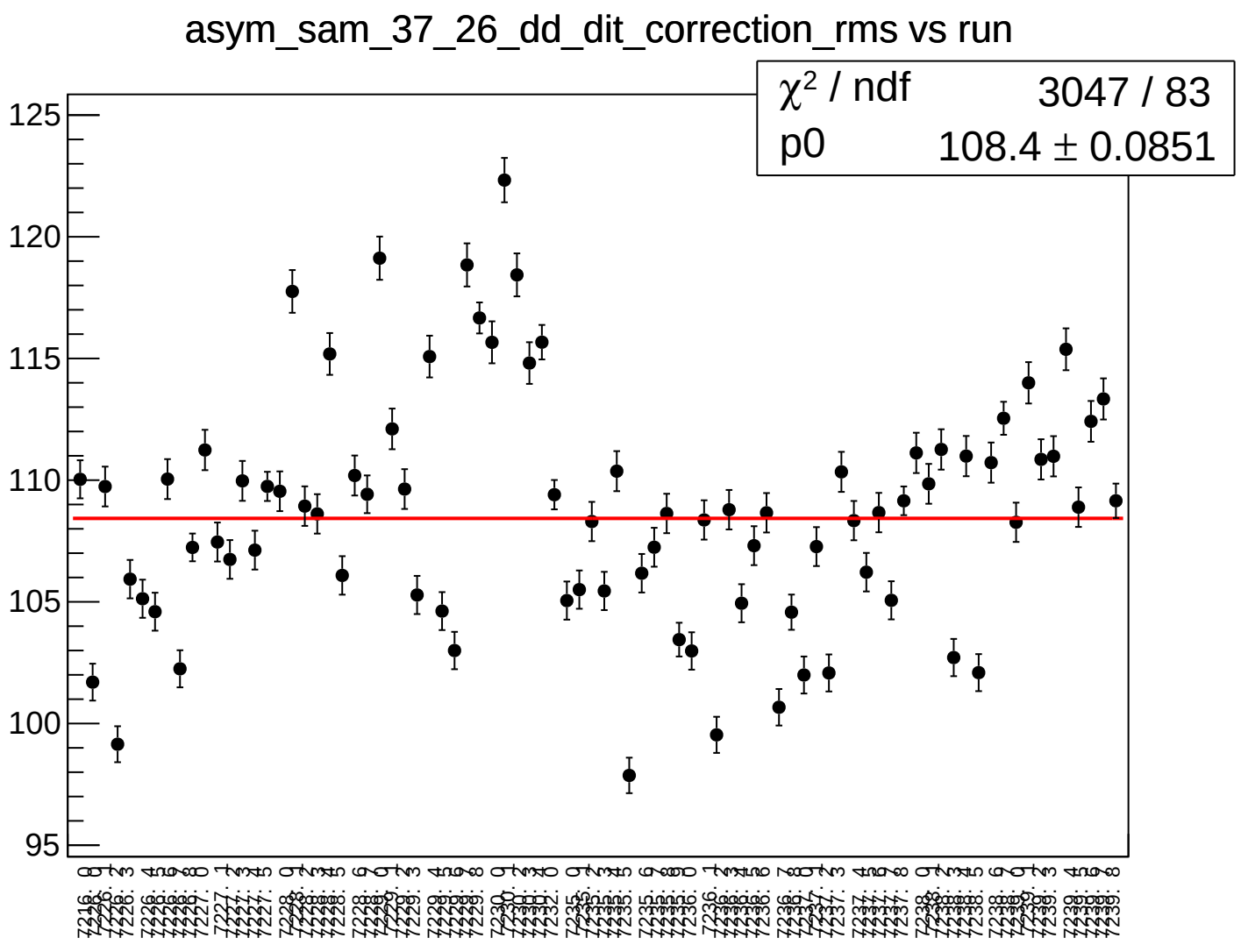

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 58.25 / 83
p0 −104.7 ± 39.01
1000
500
0
−500
−1000
pull
Entries 84
Mean 140.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

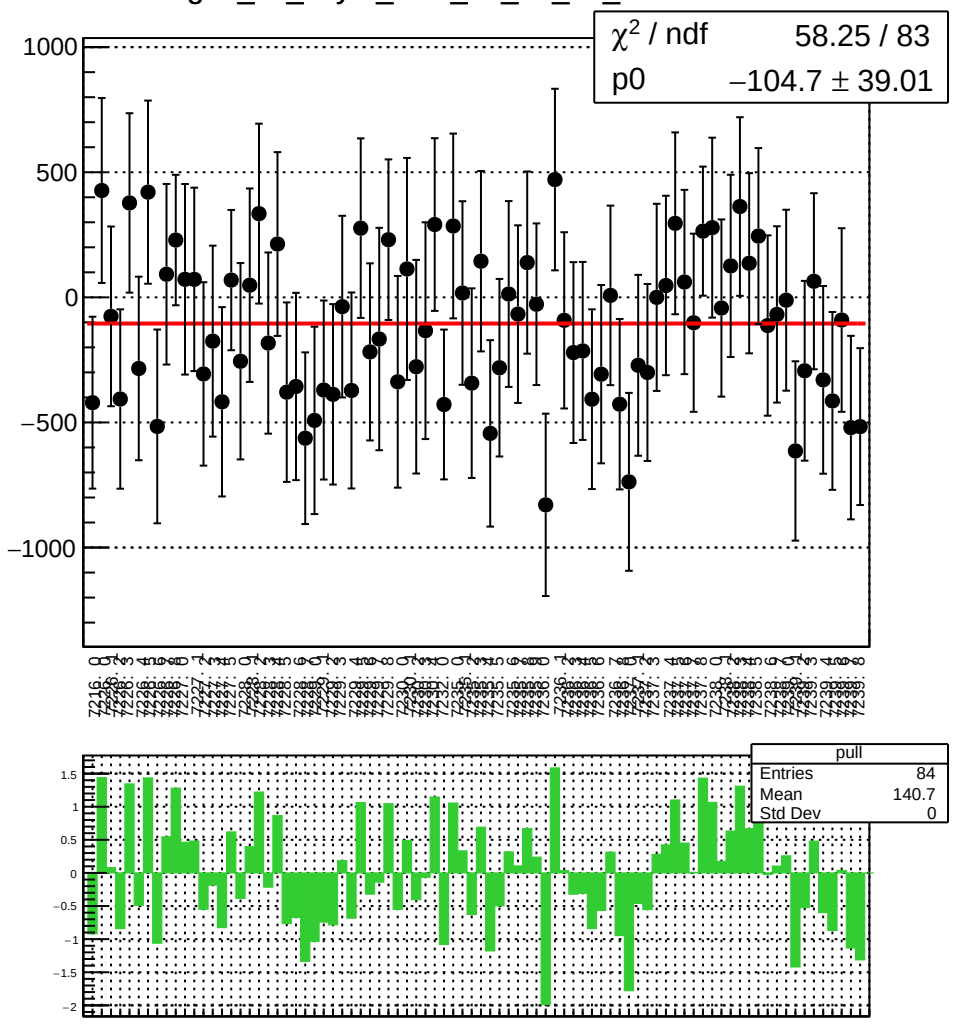

pull1D
Entries 84
Mean −0.01339
Std Dev 0.8326
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

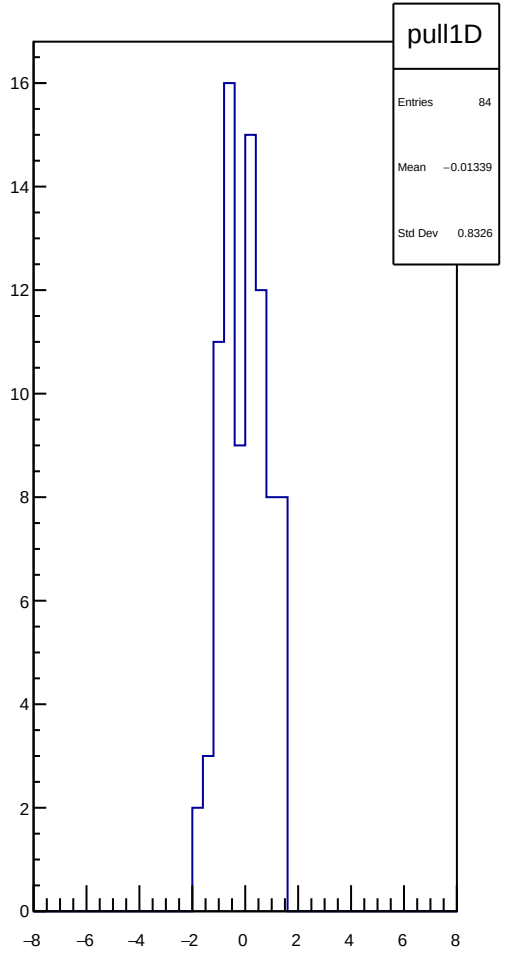

dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 5310 / 83
p0 35.13 ± 0.02759
42
40
38
36
34

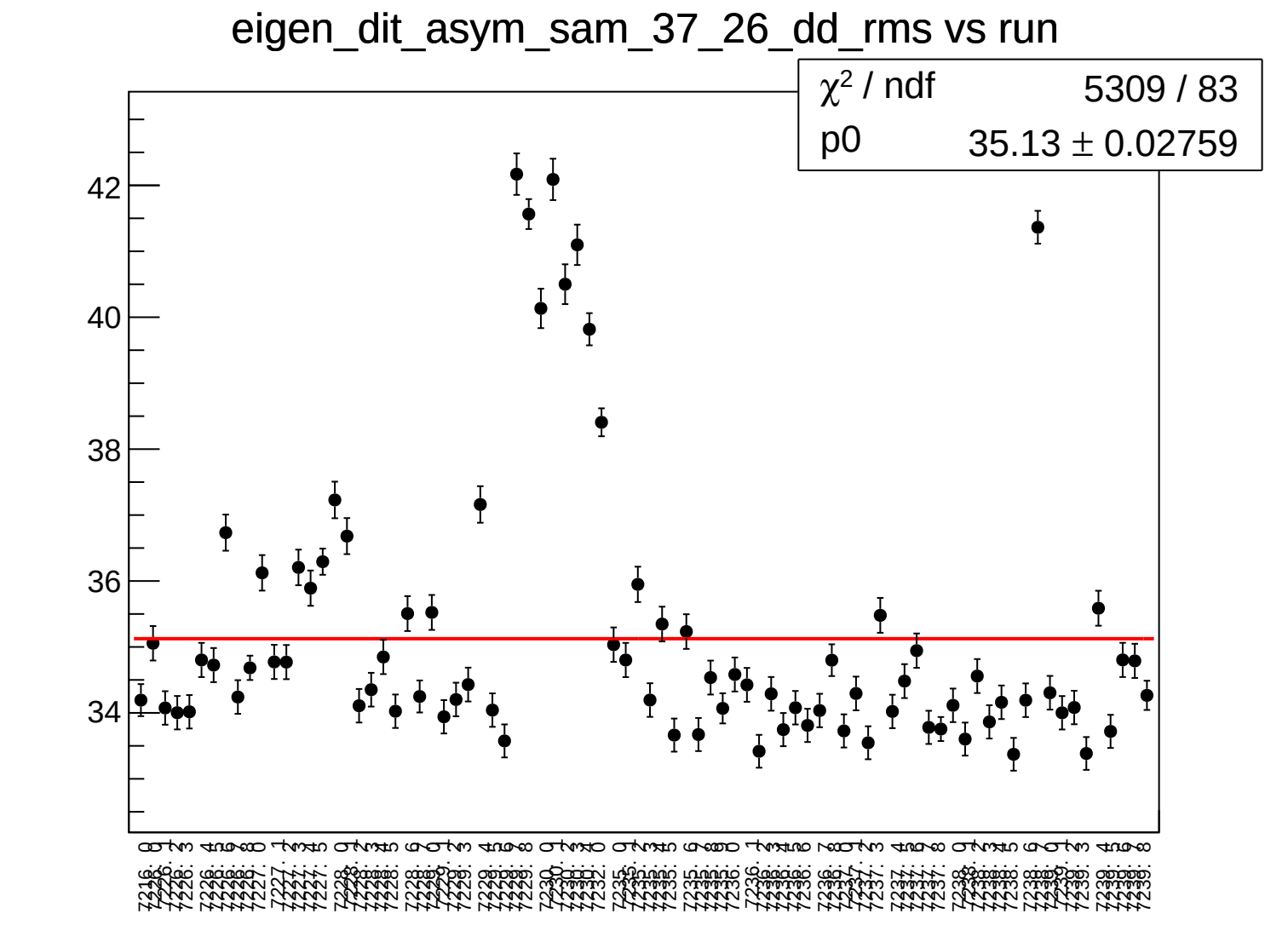

asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 71.07 / 83
p0 −74.79 ± 120.3
pull
Entries 84
Mean −55.43
Std Dev 0

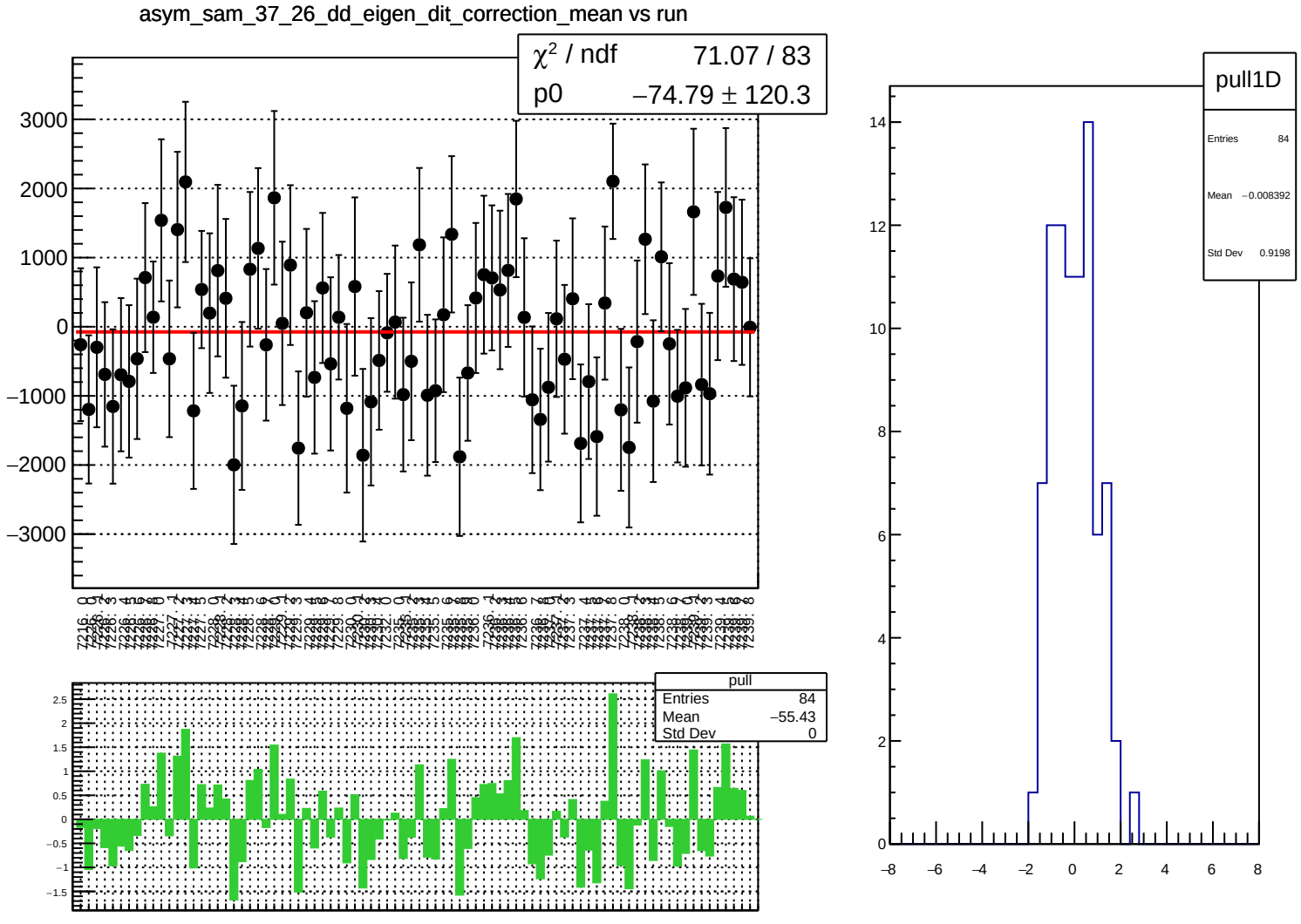

pull1D
Entries 84
Mean −0.008392
Std Dev 0.9198

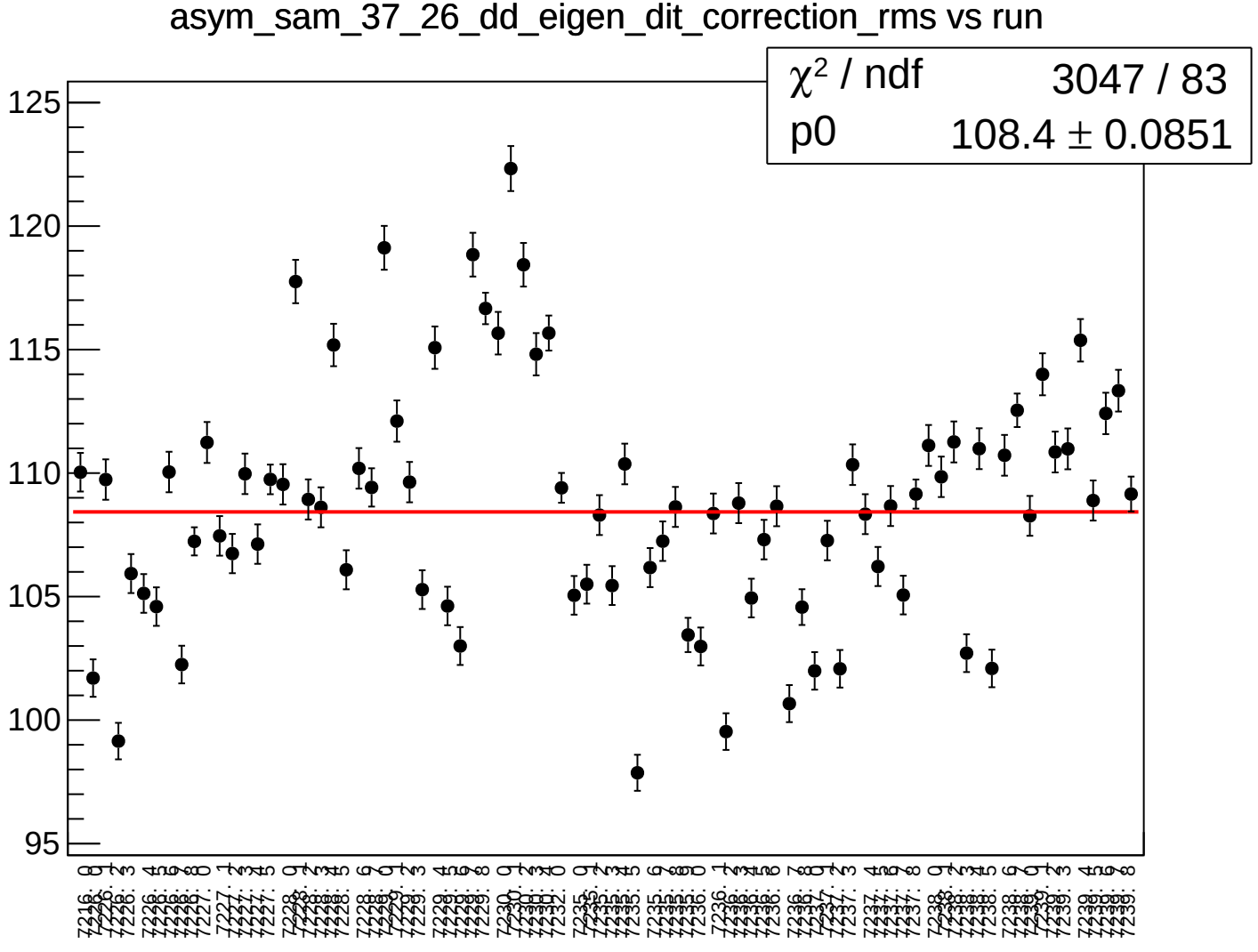

asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 3047 / 83
p0 108.4 ± 0.0851
125
120
115
110
105
100
95

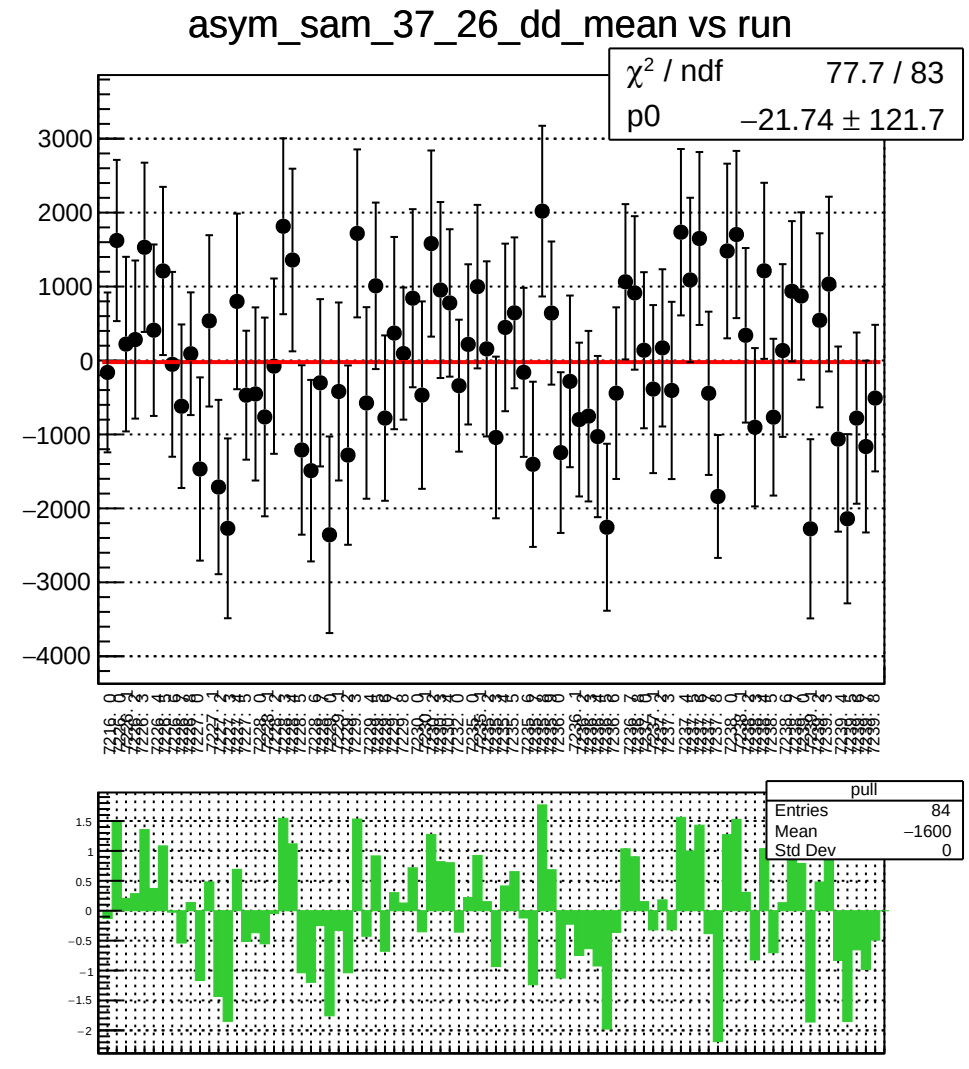

eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 58.25 / 83
p0 −104.7 ± 39.01
1000
500
0
−500
−1000
pull
Entries 84
Mean 140.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

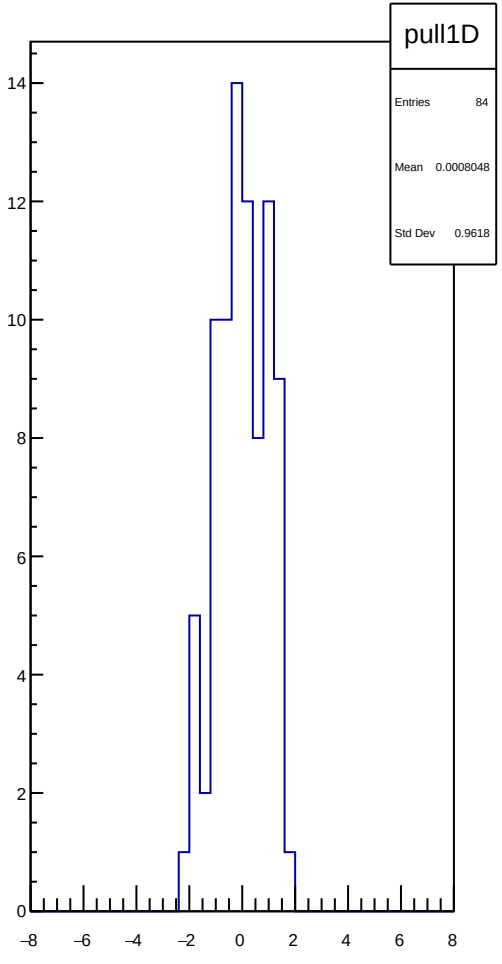

pull1D
Entries 84
Mean −0.01339
Std Dev 0.8326
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

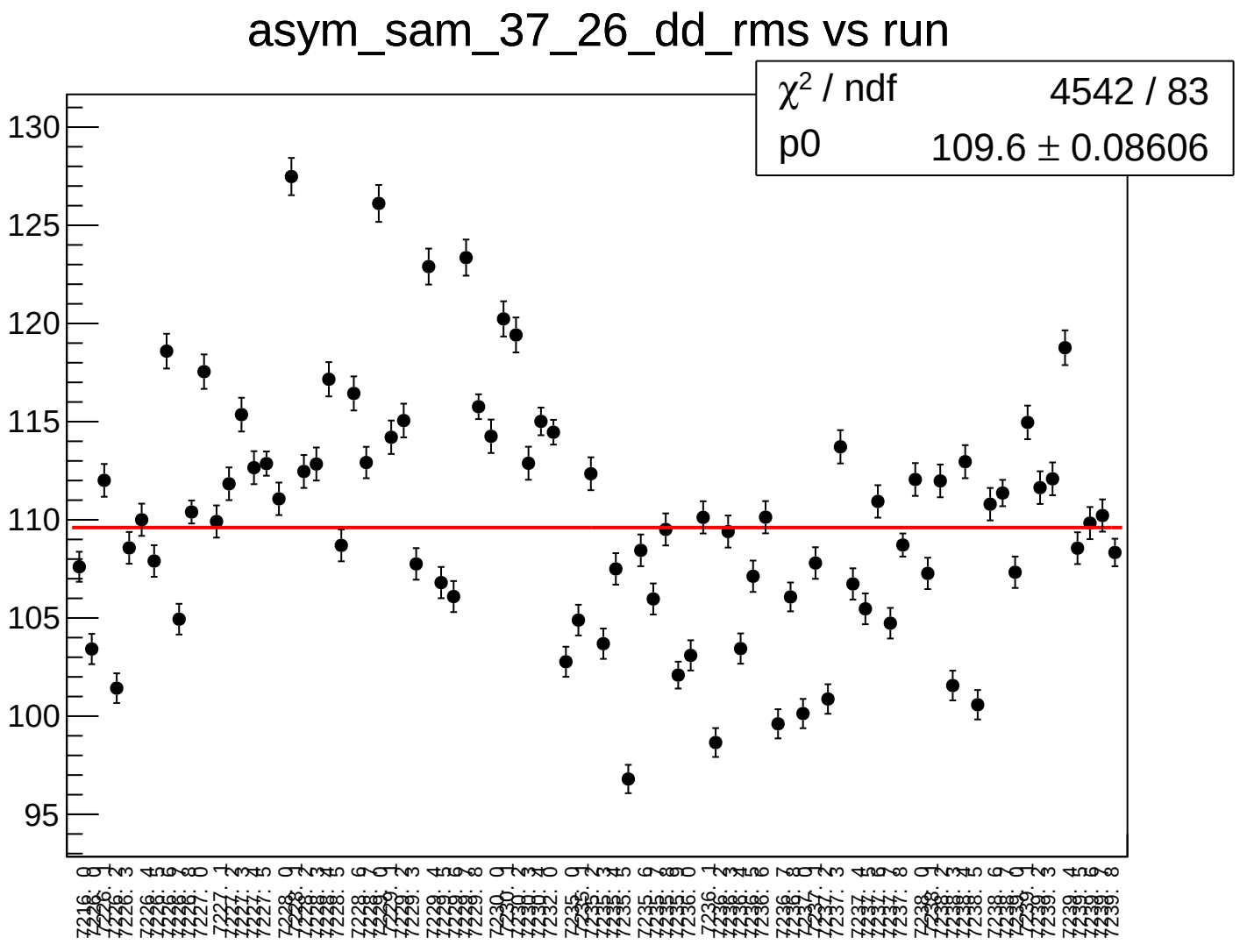

eigen_dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 5309 / 83
p0 35.13 ± 0.02759
42
40
38
36
34

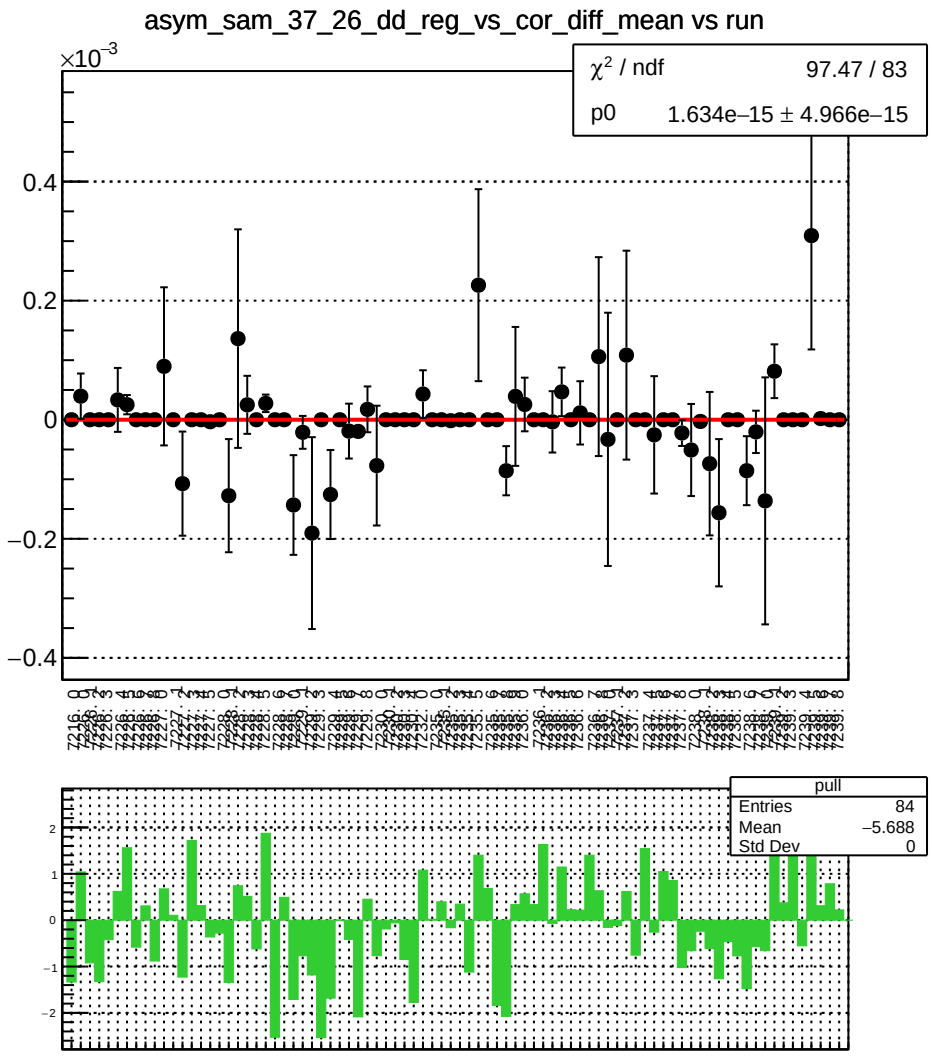

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 71.07 / 83
p0 −74.79 ± 120.3
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean −55.43
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 84
Mean −0.008392
Std Dev 0.9198
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

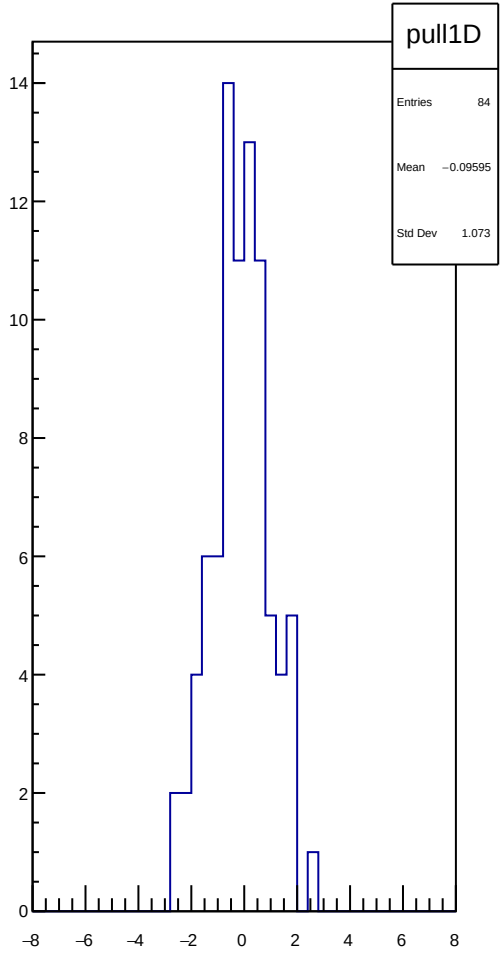

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 3047 / 83
p0 108.4 ± 0.0851
125
120
115
110
105
100
95

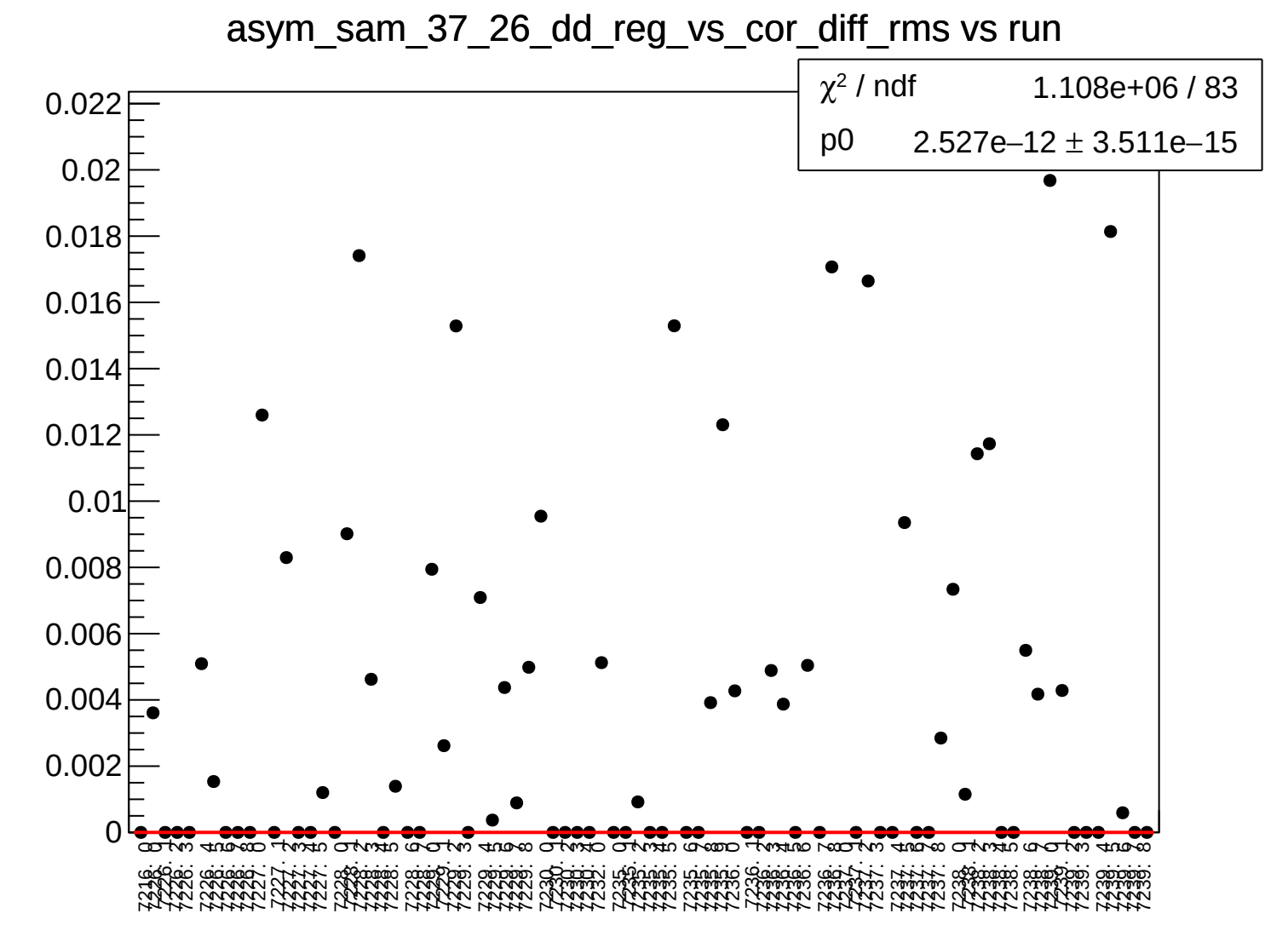

asym_sam_37_26_dd_mean vs run
χ² / ndf 77.7 / 83
p0 −21.74 ± 121.7
pull
Entries 84
Mean −1600
Std Dev 0

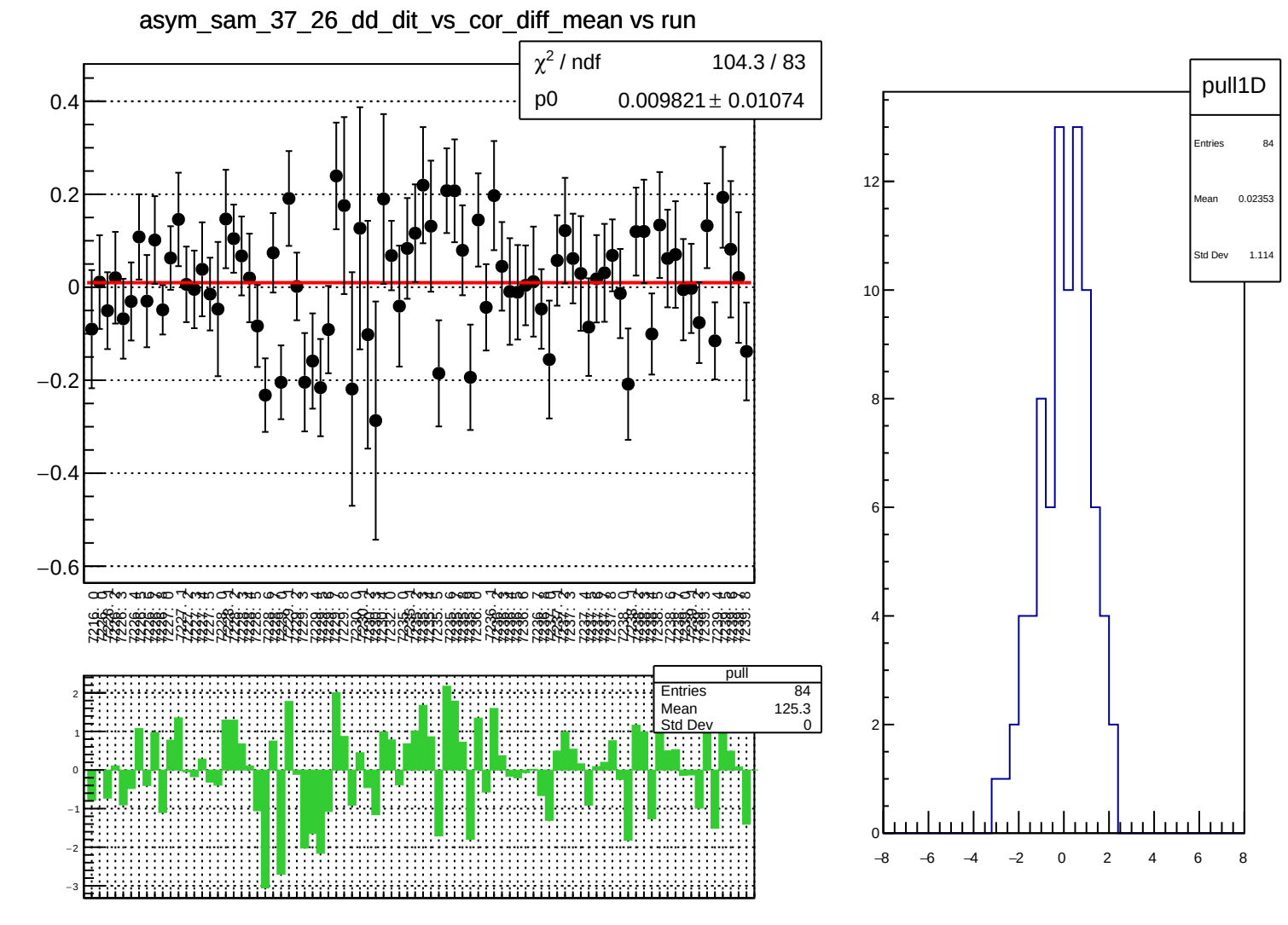

pull1D
Entries 84
Mean 0.0008048
Std Dev 0.9618

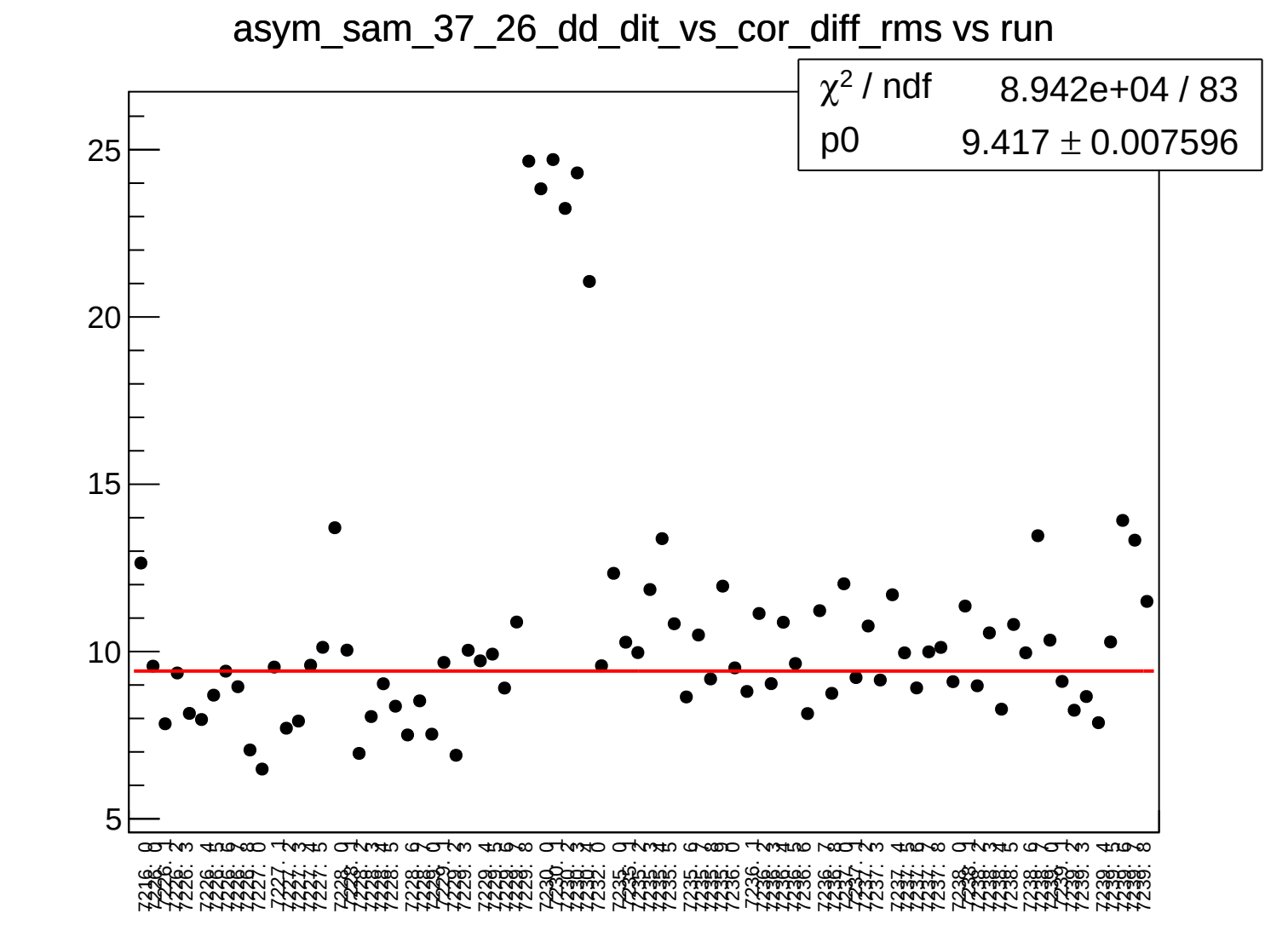

asym_sam_37_26_dd_rms vs run
χ^2 / ndf 4542 / 83
p0 109.6 ± 0.08606
130
125
120
115
110
105
100
95

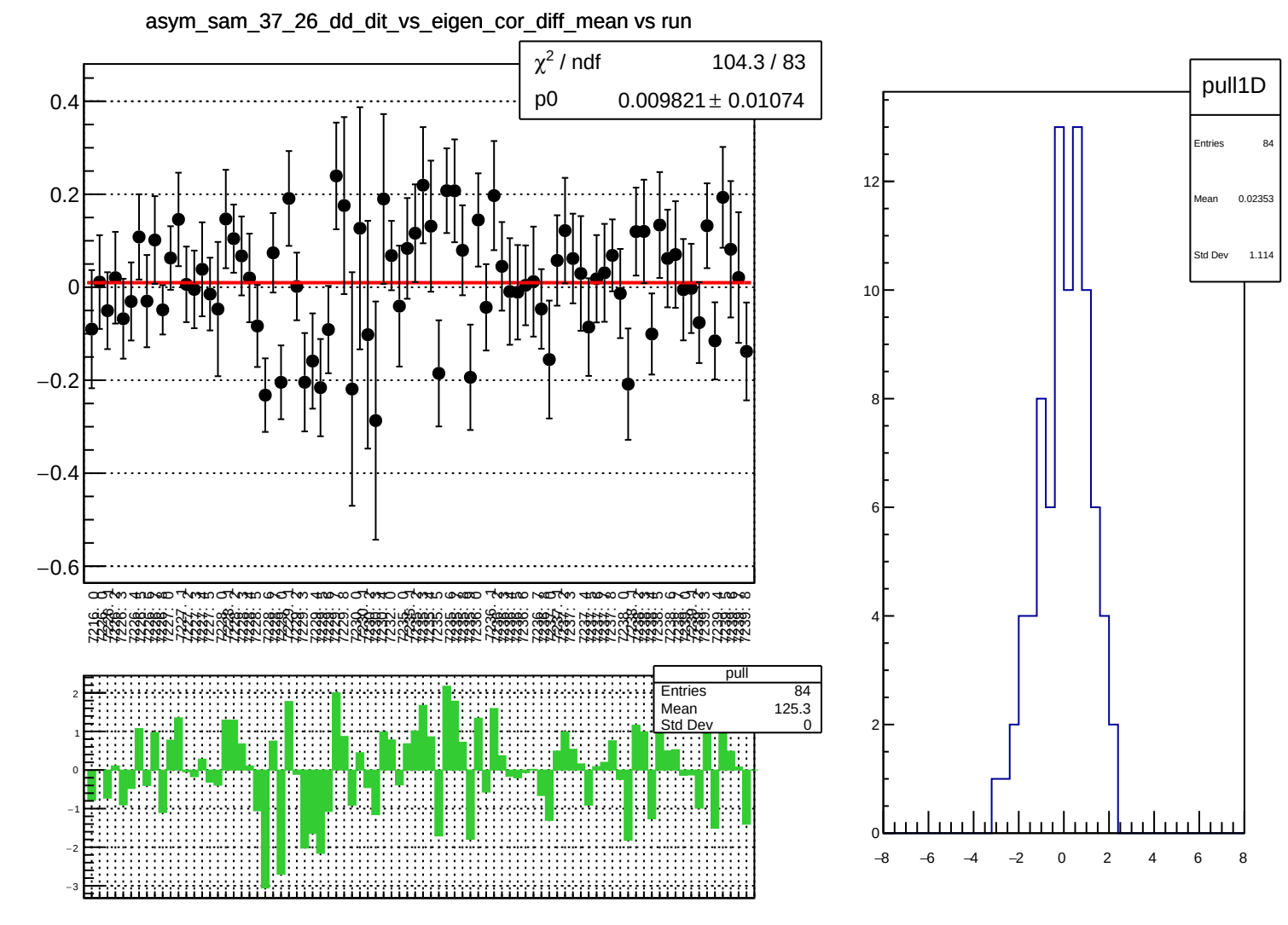

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 97.47 / 83
p0 1.634e−15 ± 4.966e−15
pull
Entries 84
Mean −5.688
Std Dev 0

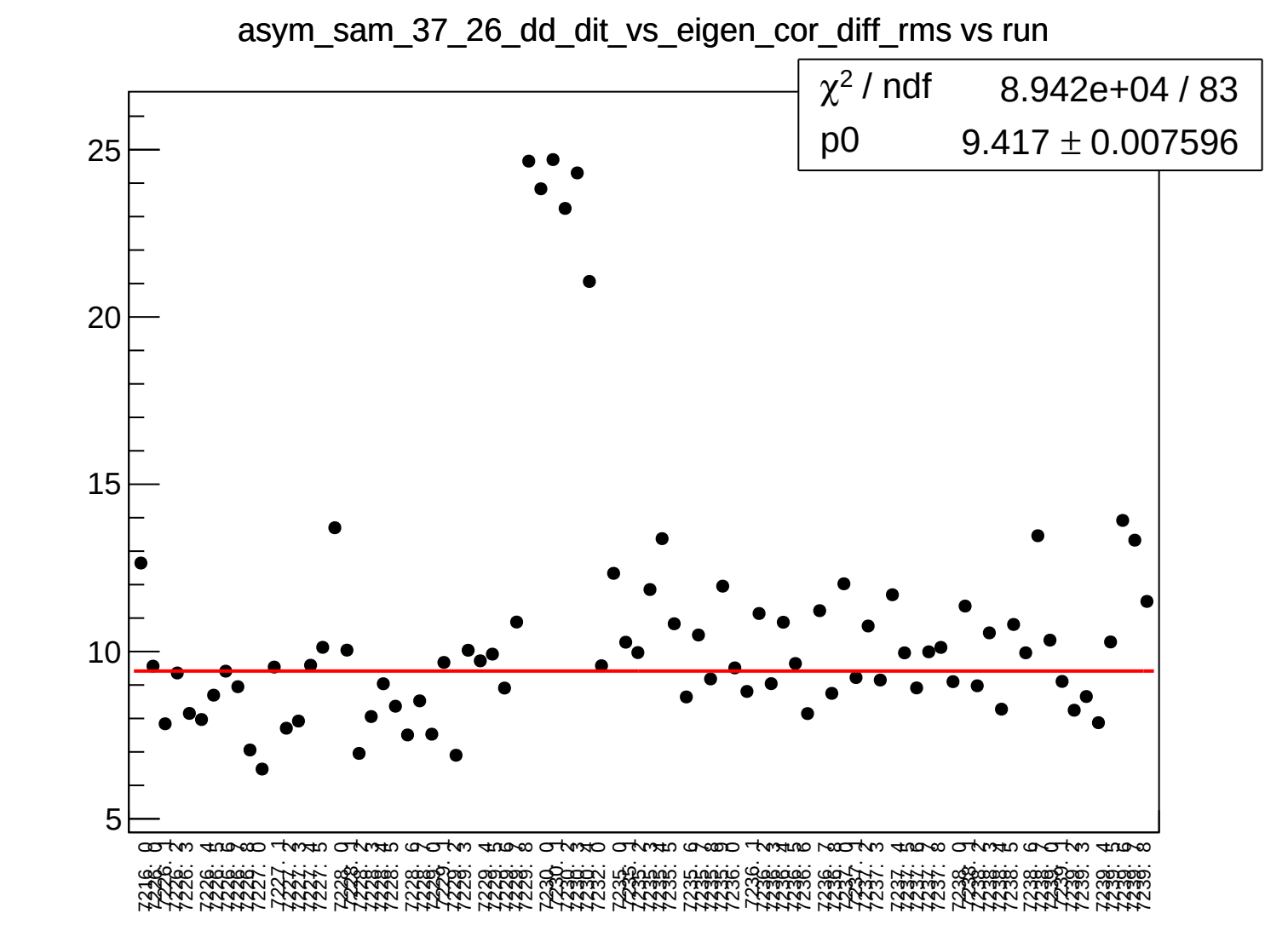

pull1D
Entries 84
Mean −0.09595
Std Dev 1.073

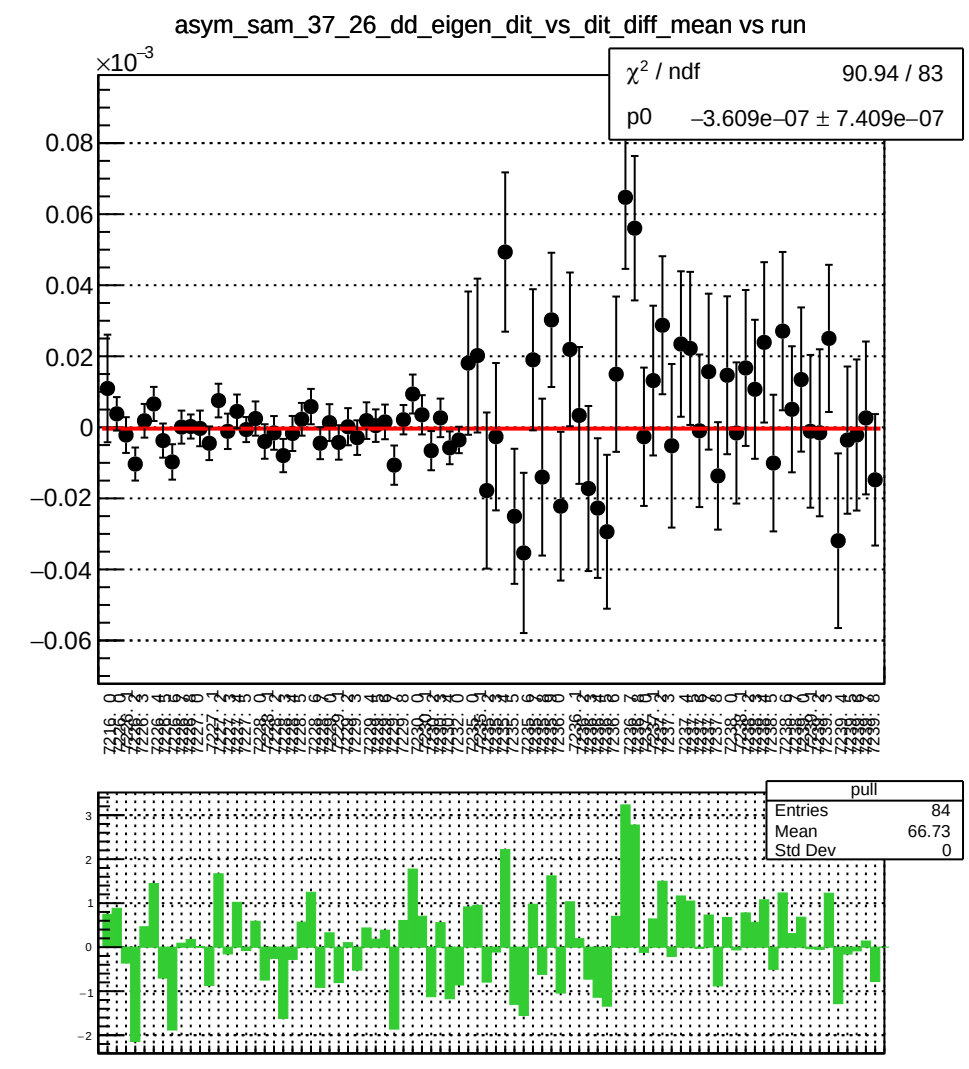

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.108e+06 / 83
p0 2.527e−12 ± 3.511e−15
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0

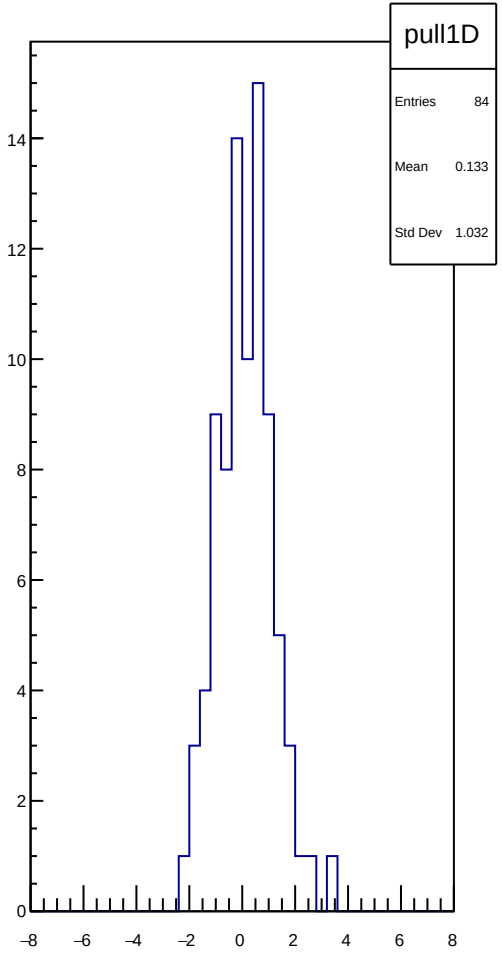

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 104.3 / 83
p0 0.009821 ± 0.01074
pull
Entries 84
Mean 125.3
Std Dev 0
pull1D
Entries 84
Mean 0.02353
Std Dev 1.114

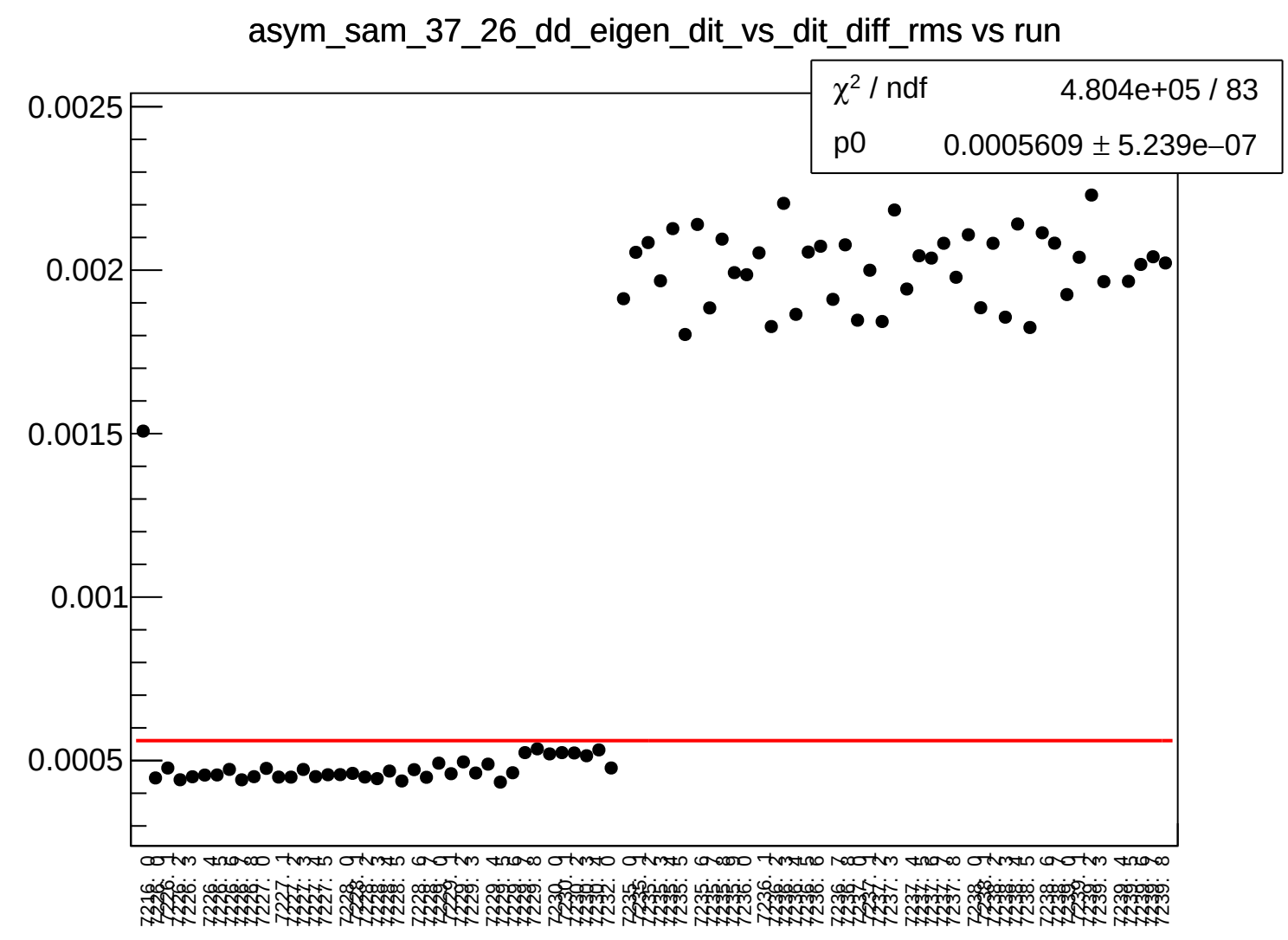

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.942e+04 / 83
p0 9.417 ± 0.007596
25
20
15
10
5

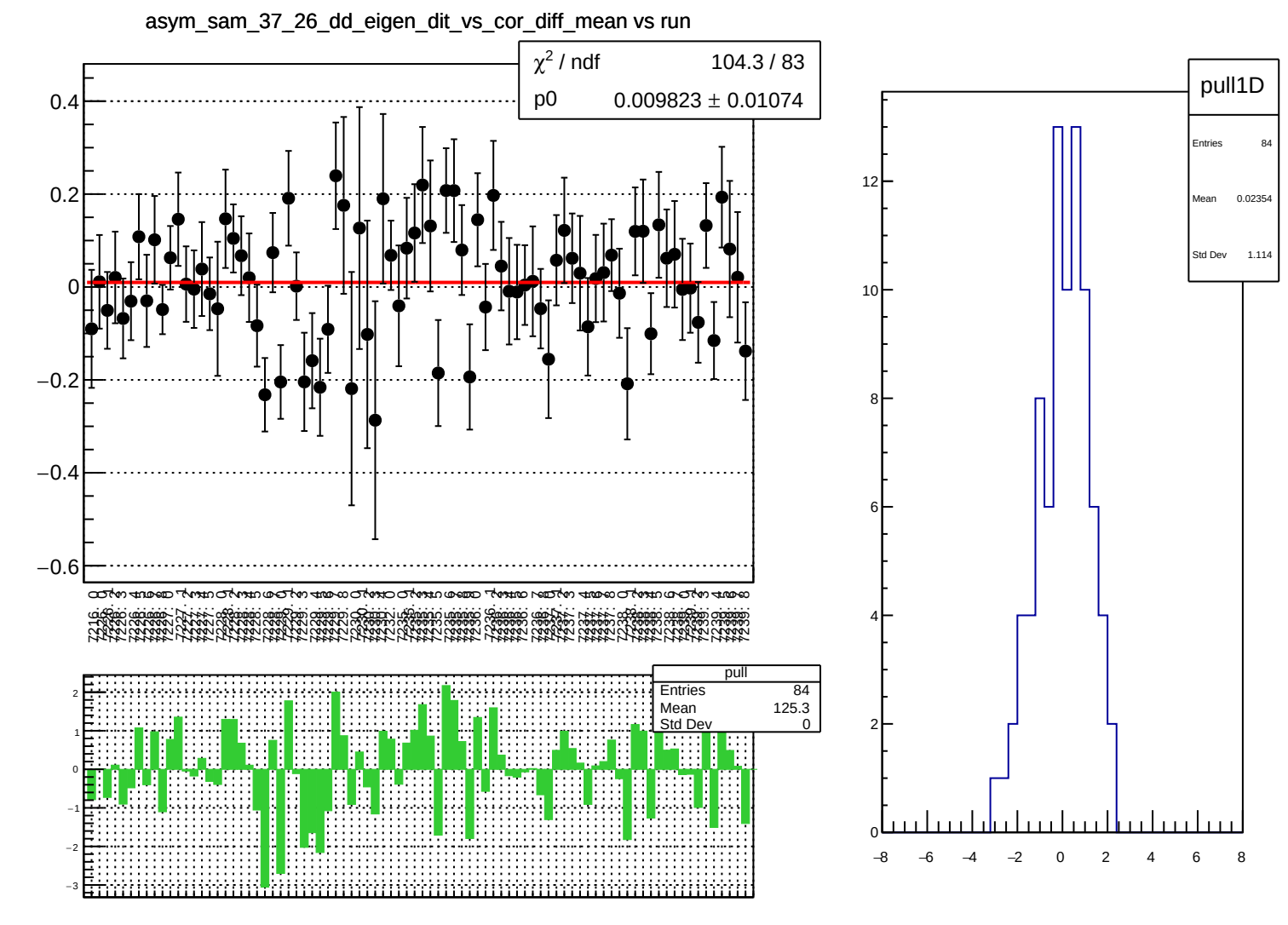

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.3 / 83
p0 0.009821 ± 0.01074
pull
Entries 84
Mean 125.3
Std Dev 0
pull1D
Entries 84
Mean 0.02353
Std Dev 1.114

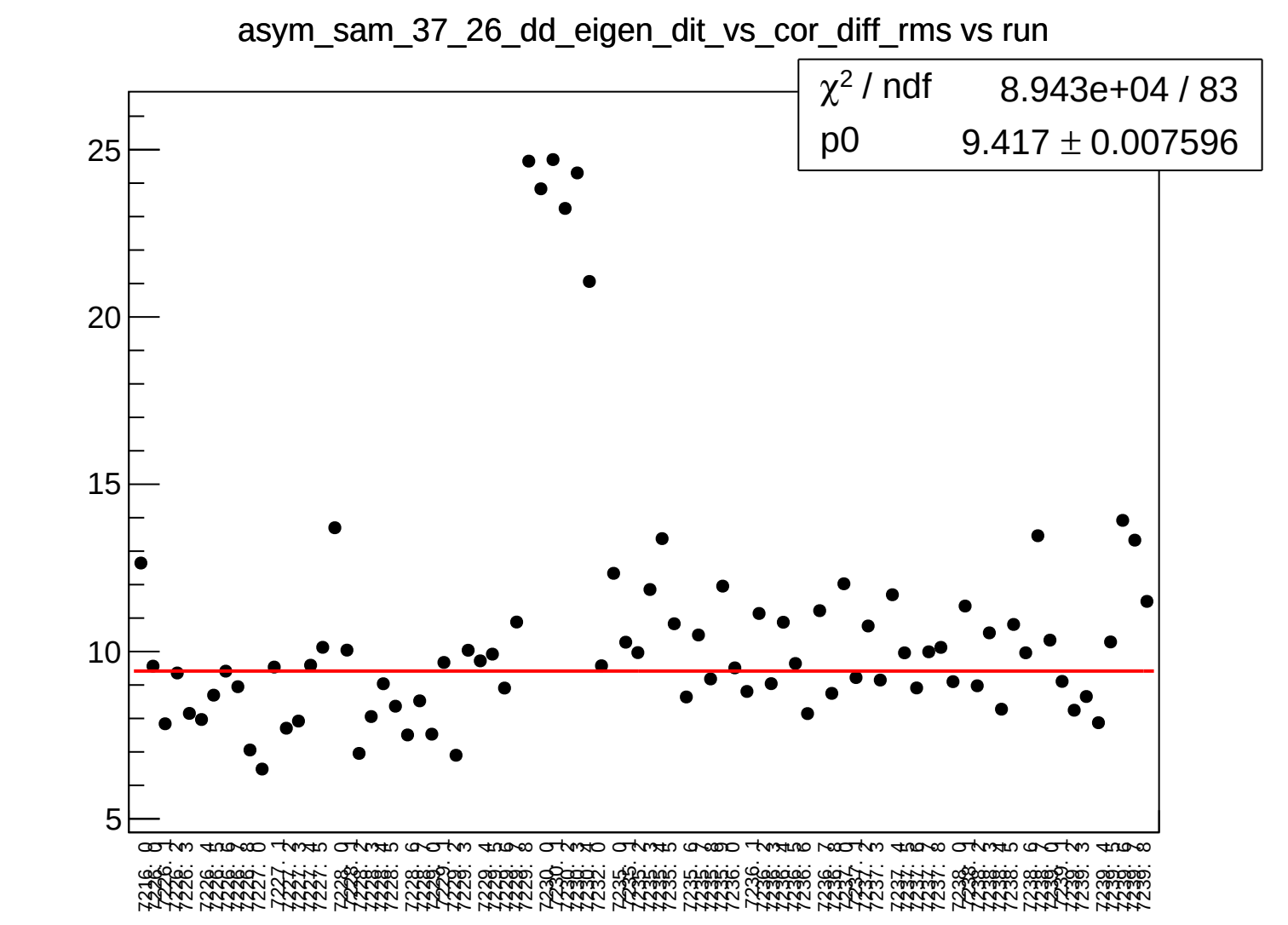

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.942e+04 / 83
p0 9.417 ± 0.007596
25
20
15
10
5

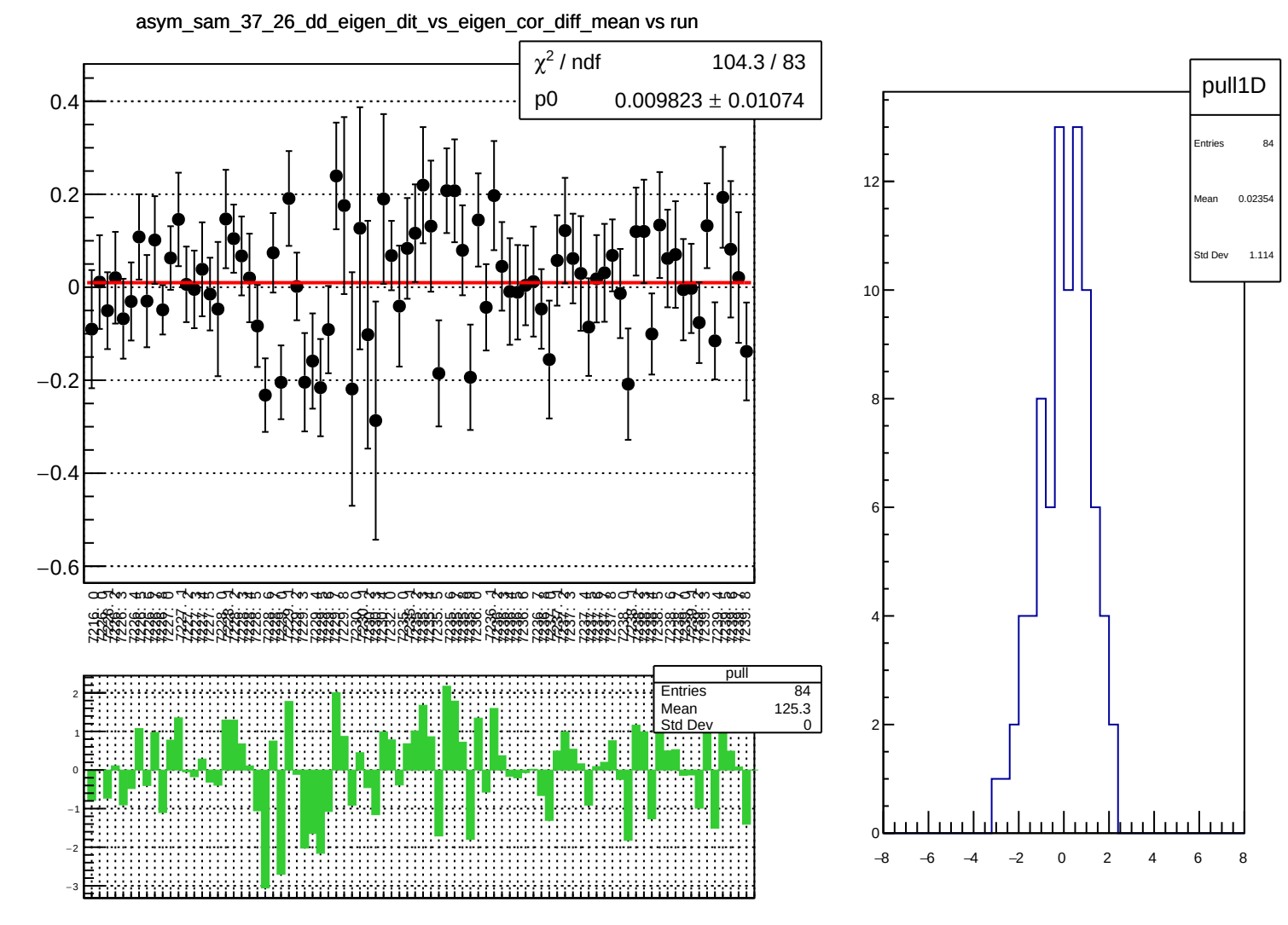

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.94 / 83
p0 −3.609e−07 ± 7.409e−07
pull
Entries 84
Mean 66.73
Std Dev 0

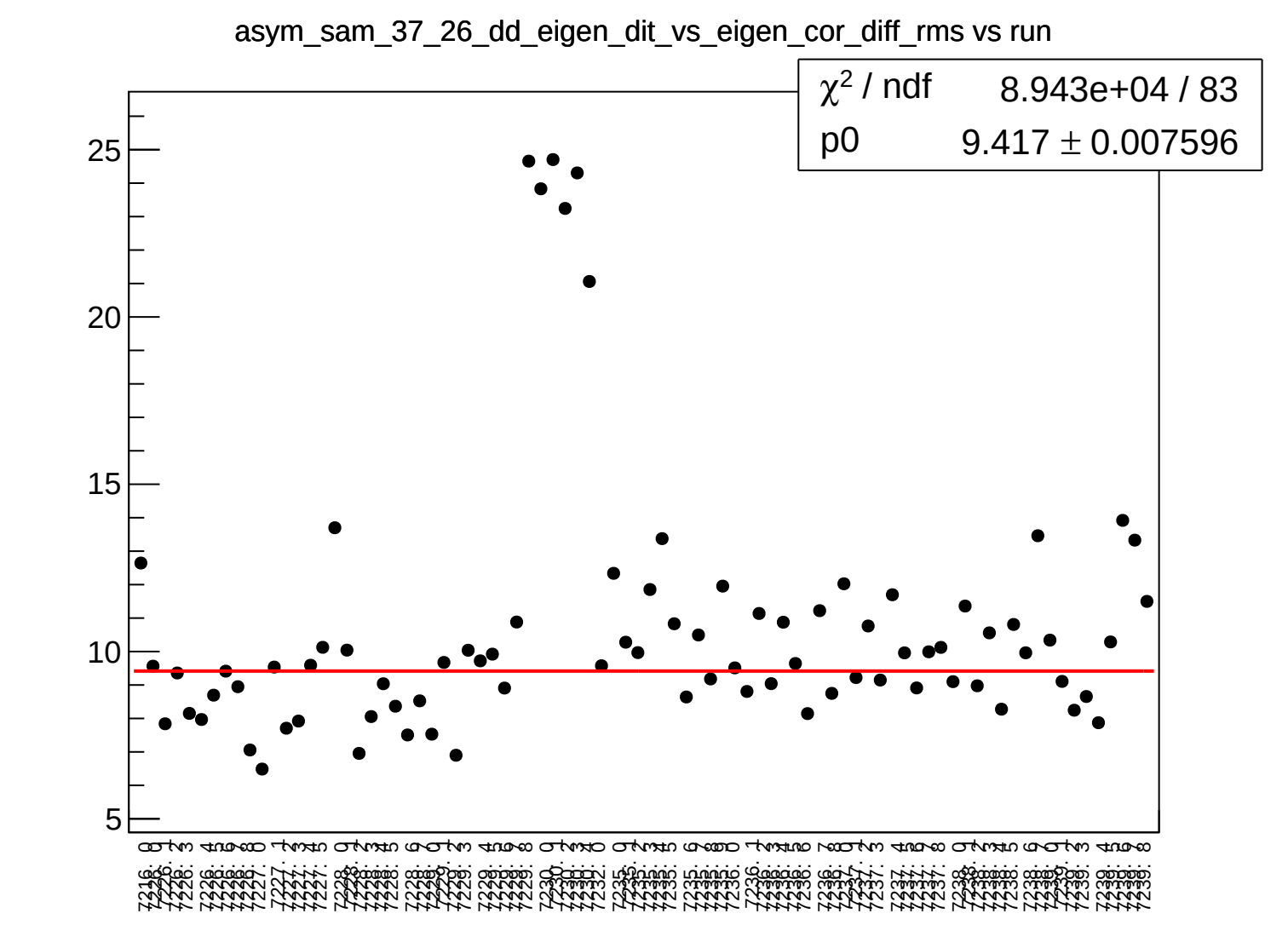

pull1D
Entries 84
Mean 0.133
Std Dev 1.032

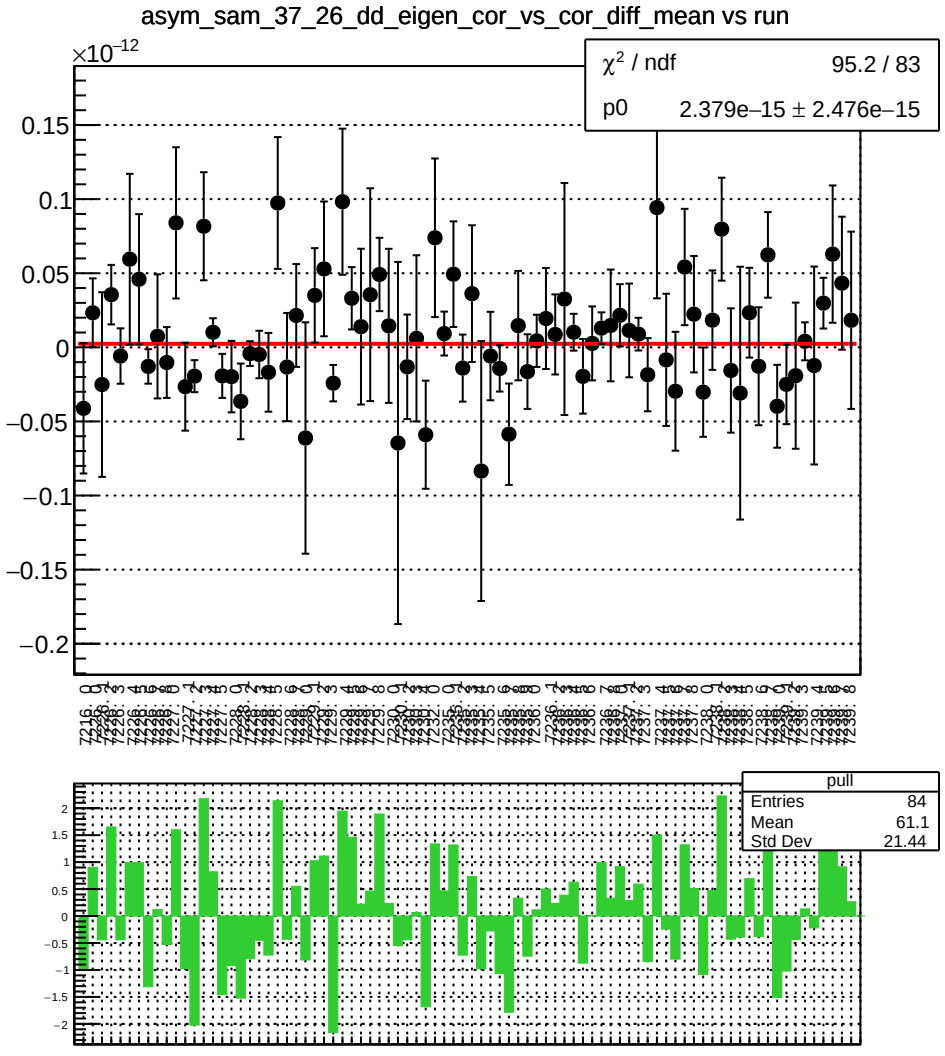

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.804e+05 / 83
p0 0.0005609 ± 5.239e−07
0.0025
0.002
0.0015
0.001
0.0005

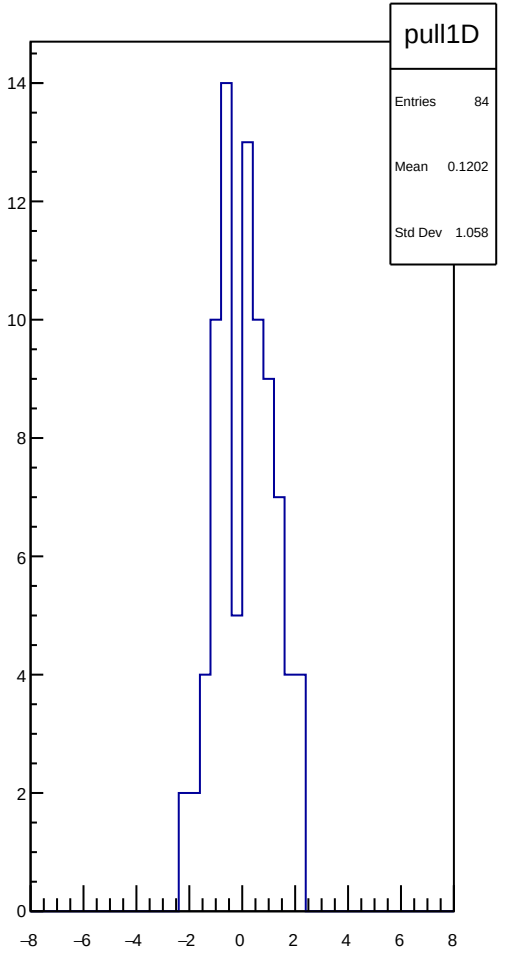

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.3 / 83
p0 0.009823 ± 0.01074
pull
Entries 84
Mean 125.3
Std Dev 0
pull1D
Entries 84
Mean 0.02354
Std Dev 1.114

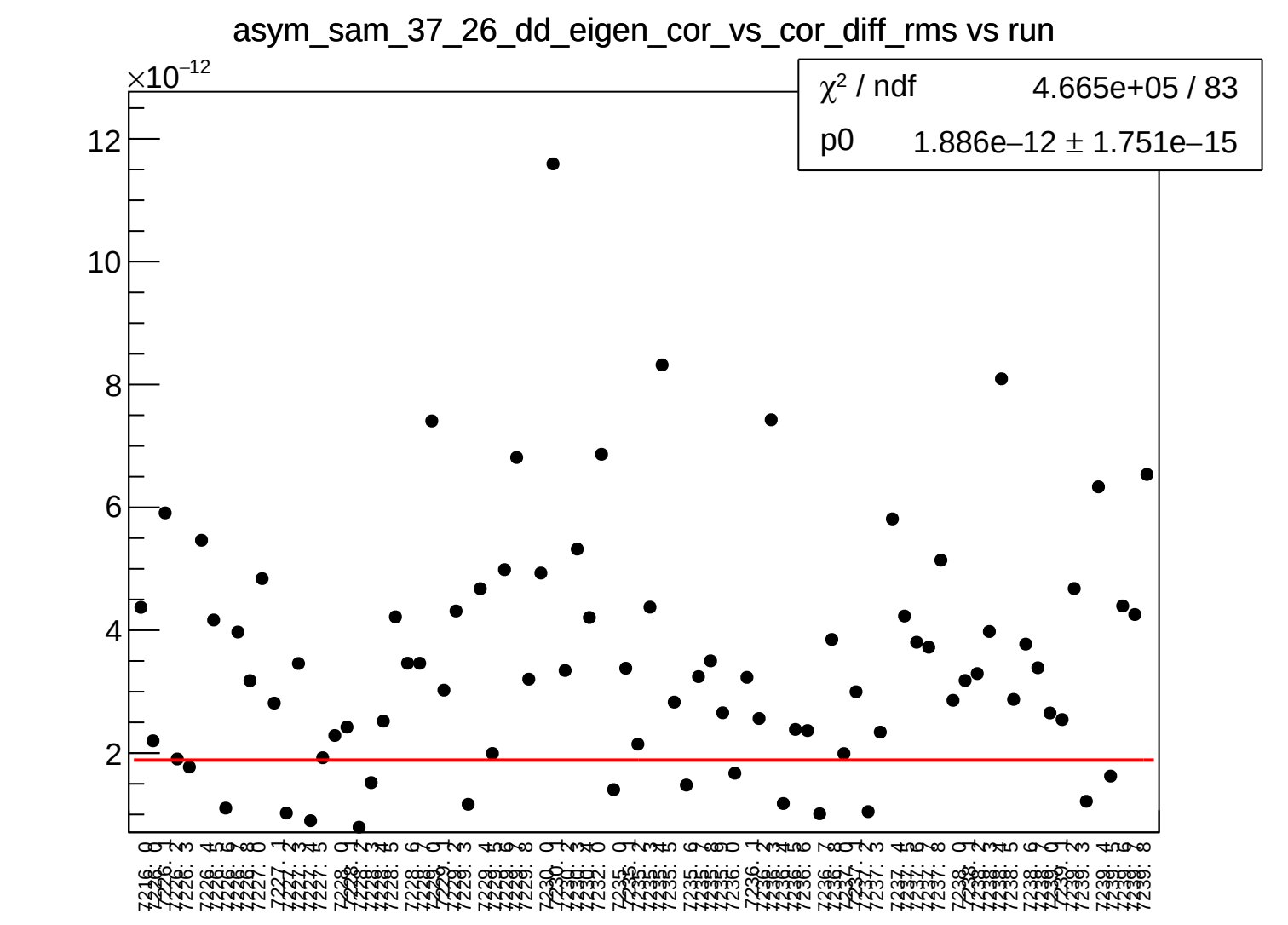

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.943e+04 / 83
p0 9.417 ± 0.007596
25
20
15
10
5

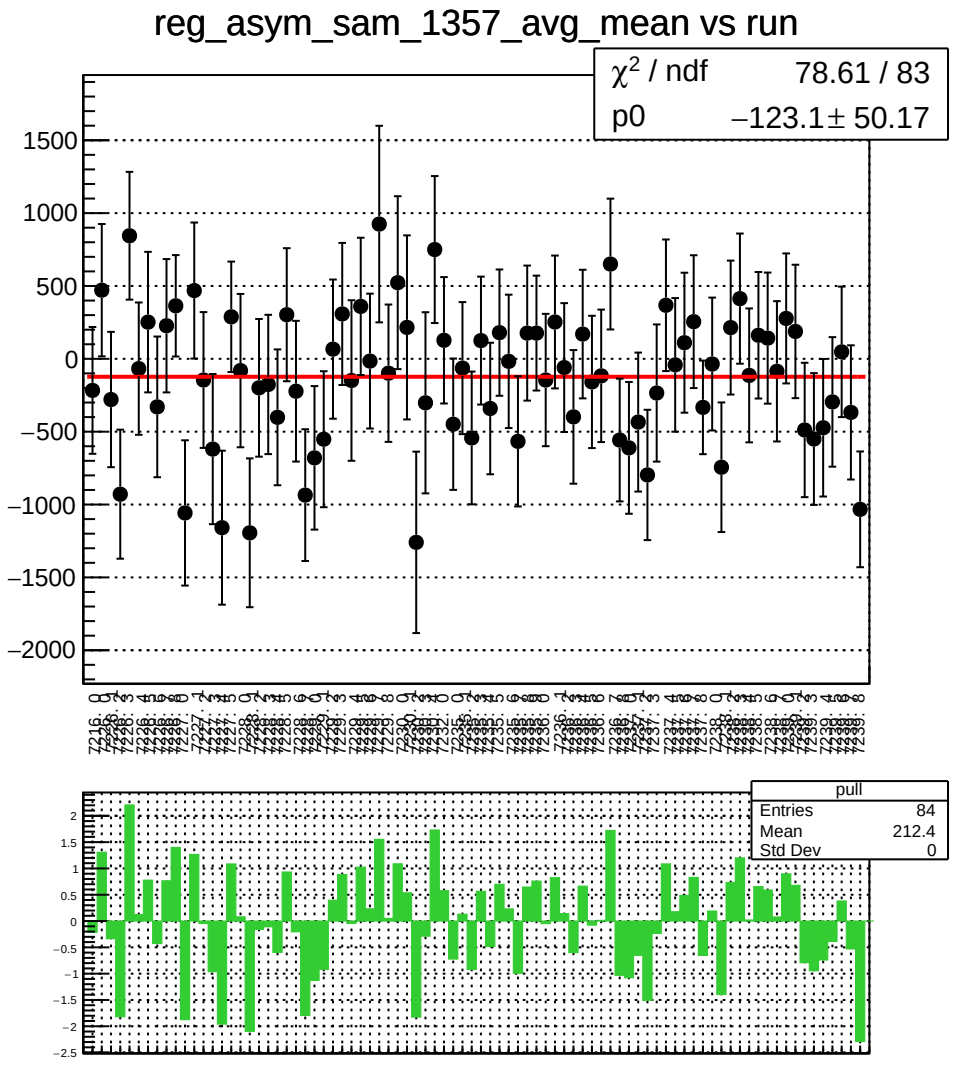

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.3 / 83
p0 0.009823 ± 0.01074
pull
Entries 84
Mean 125.3
Std Dev 0
pull1D
Entries 84
Mean 0.02354
Std Dev 1.114

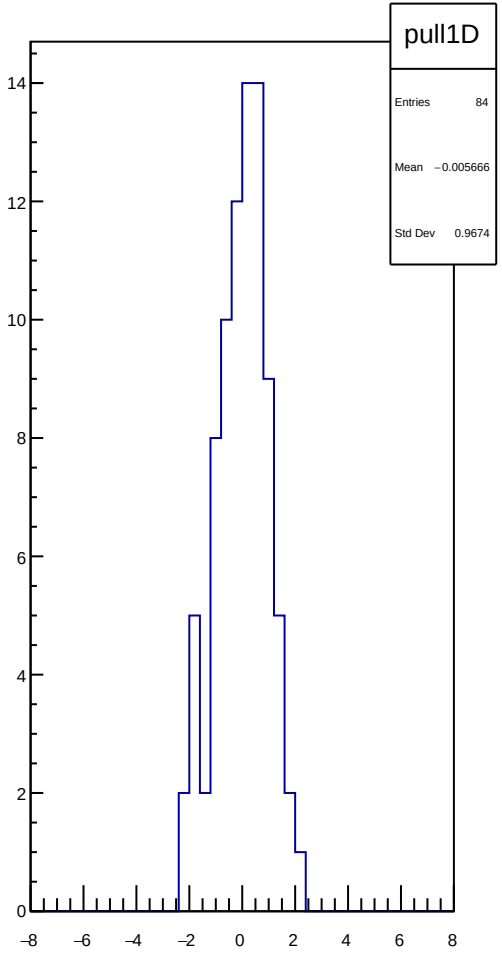

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.943e+04 / 83
p0 9.417 ± 0.007596
25
20
15
10
5

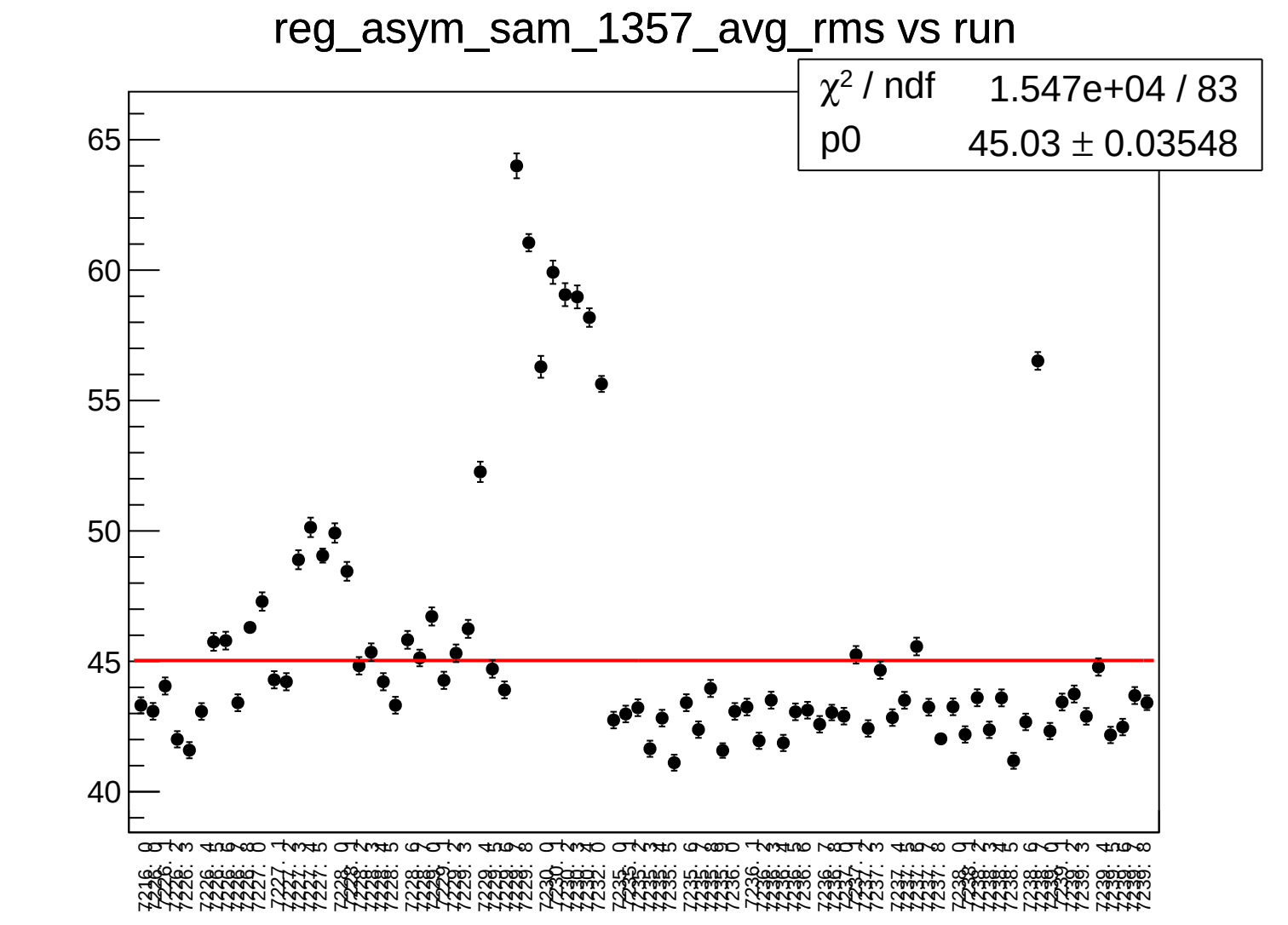

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.2 / 83
p0 2.379e−15 ± 2.476e−15
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 84
Mean 61.1
Std Dev 21.44
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

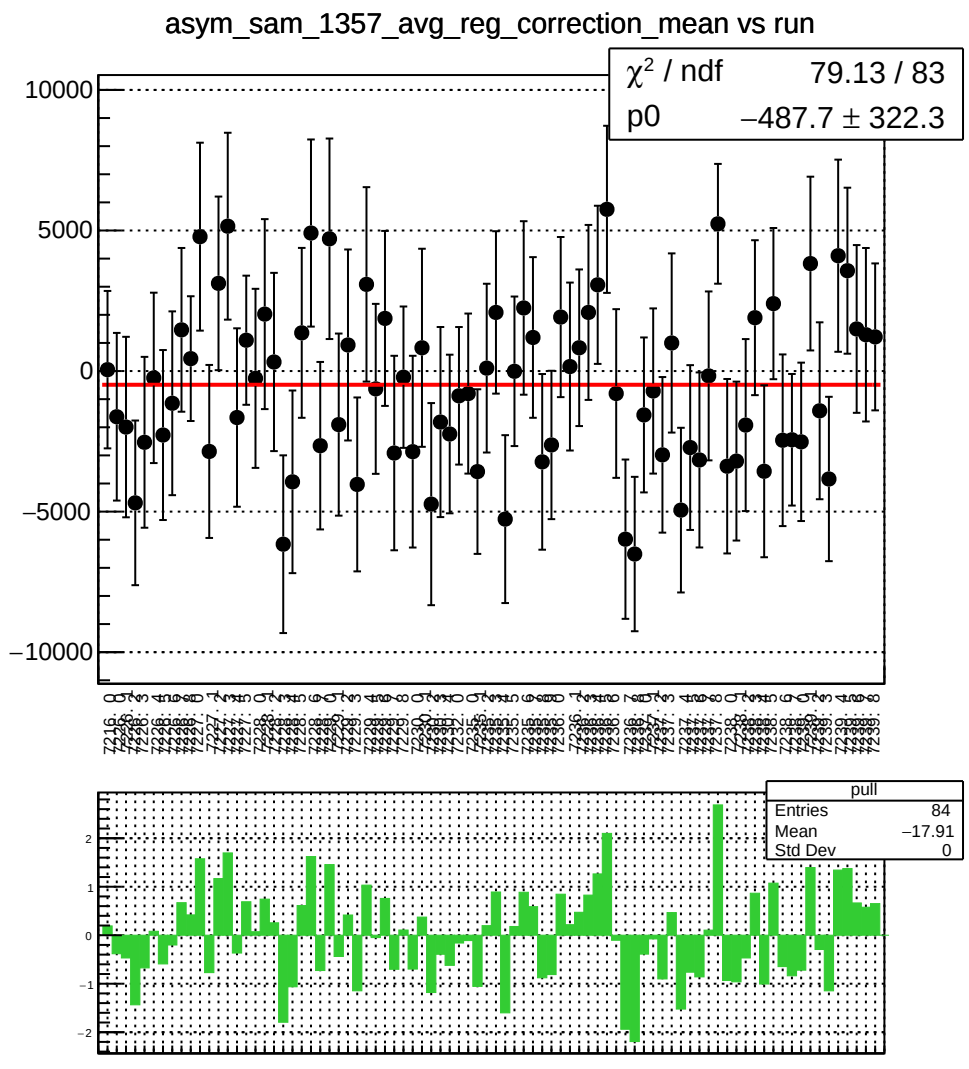

pull1D
Entries 84
Mean 0.1202
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

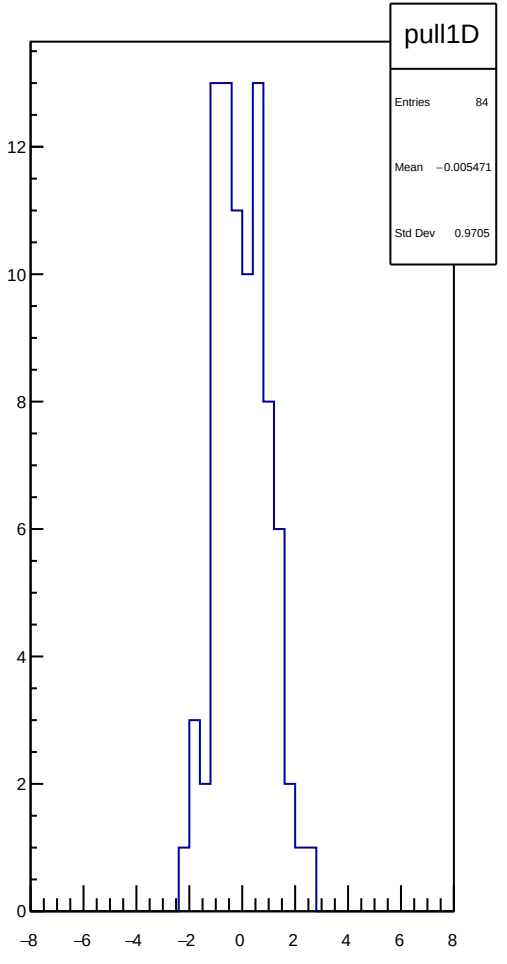

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.665e+05 / 83
p0 1.886e−12 ± 1.751e−15
12
10
8
6
4
2

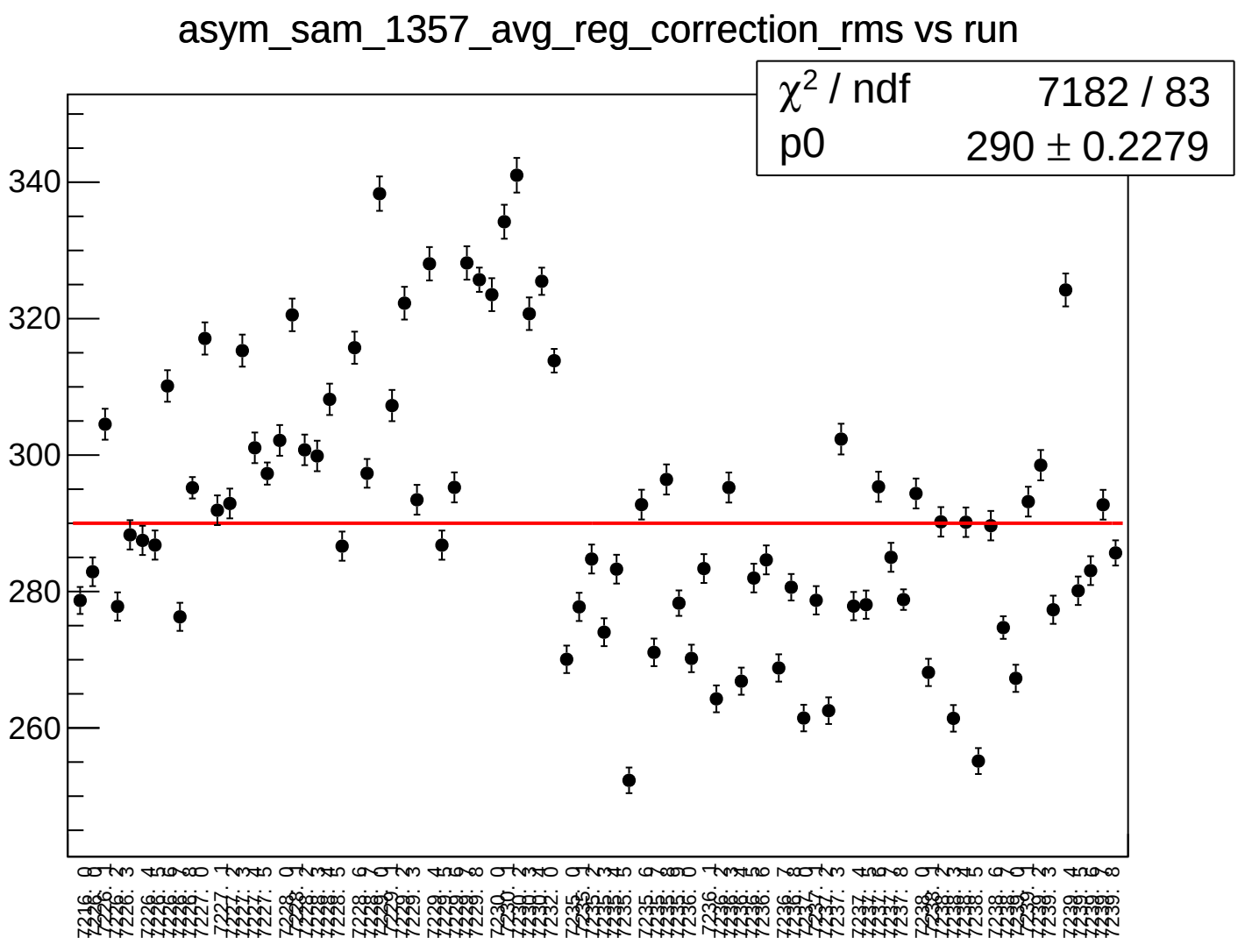

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 78.61 / 83
p0 −123.1± 50.17
pull
Entries 84
Mean 212.4
Std Dev 0

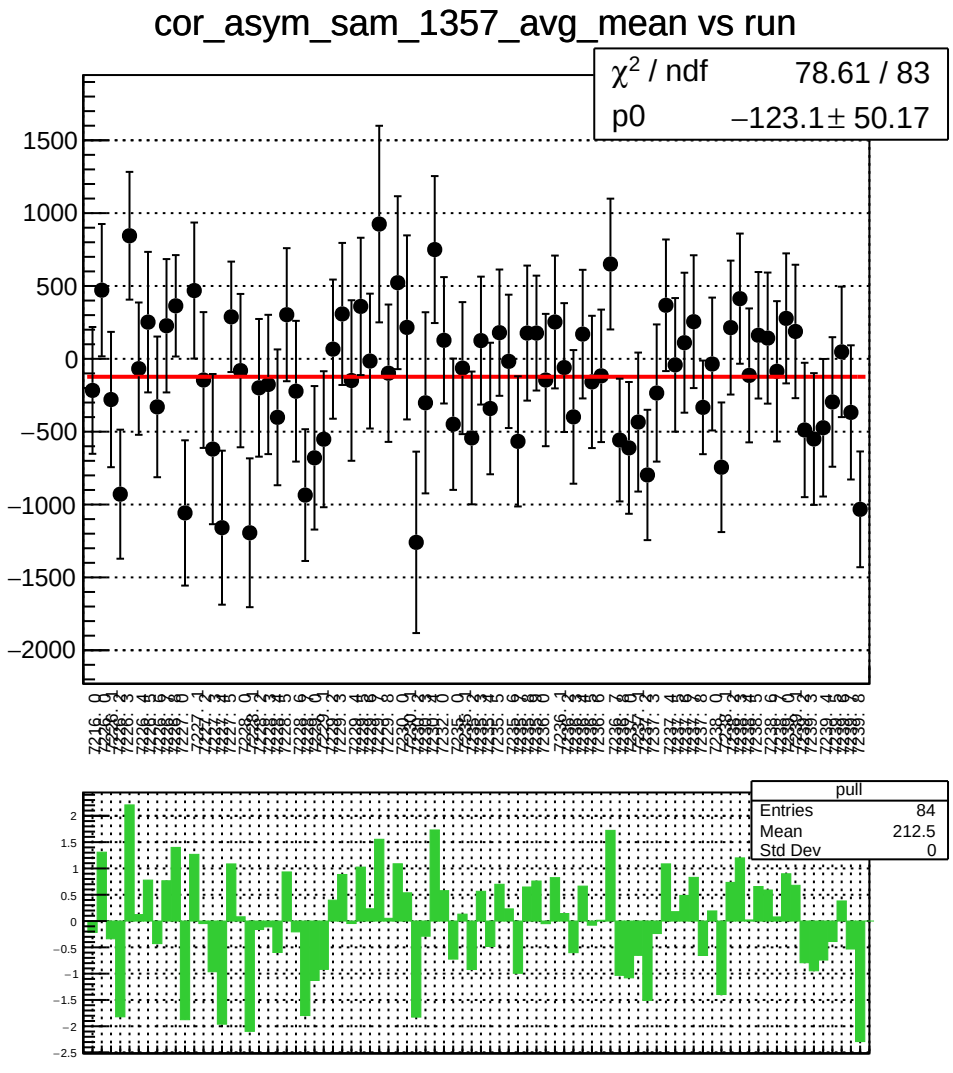

pull1D
Entries 84
Mean −0.005666
Std Dev 0.9674

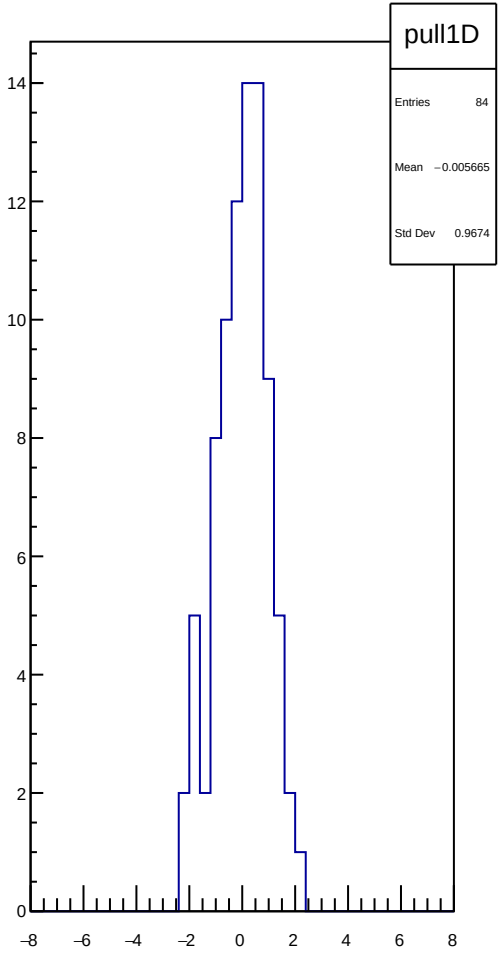

reg_asym_sam_1357_avg_rms vs run
χ^2 / ndf 1.547e+04 / 83
p0 45.03 ± 0.03548
65
60
55
50
45
40

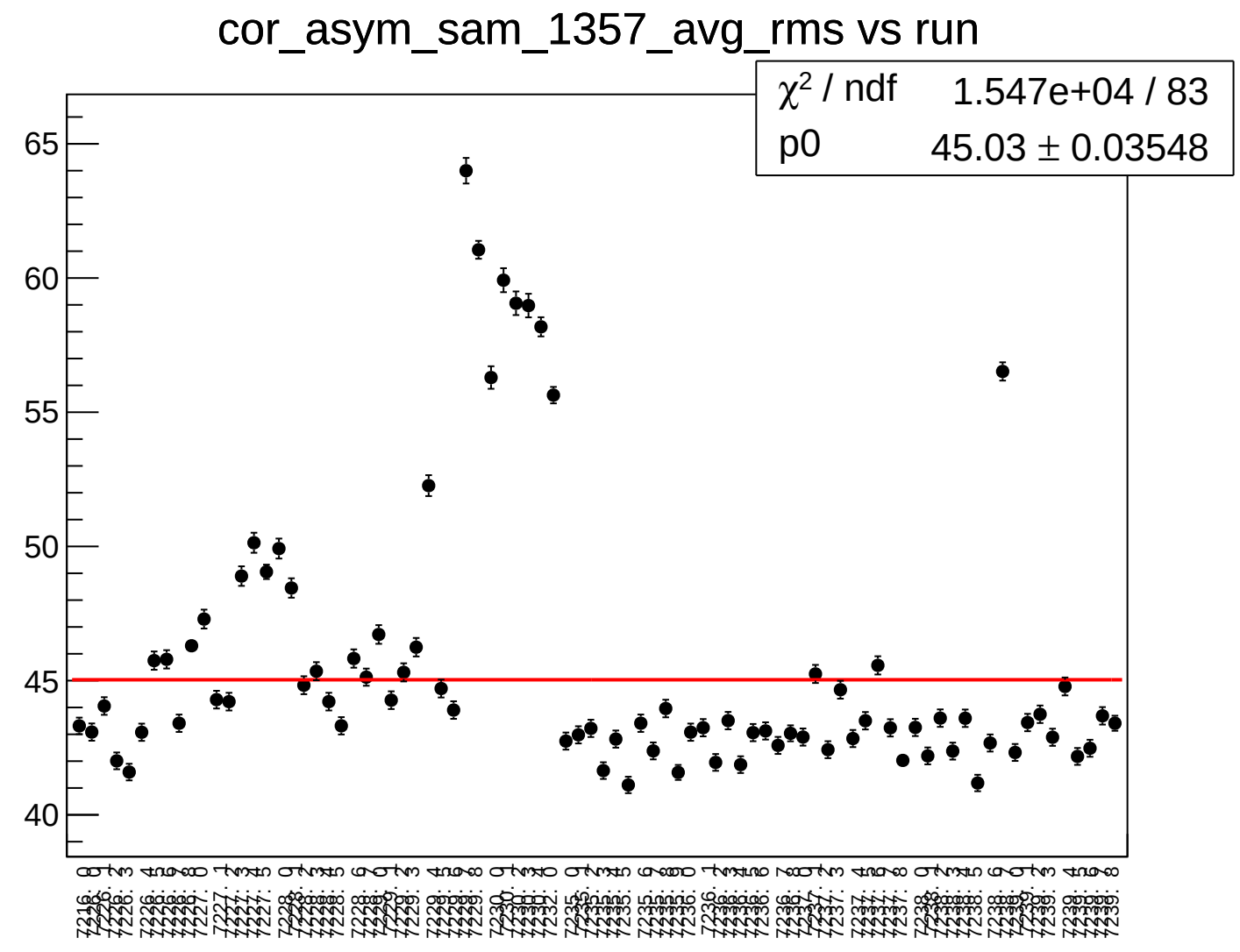

asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 79.13 / 83
p0 −487.7 ± 322.3
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −17.91
Std Dev 0
2
1
0
−1
−2

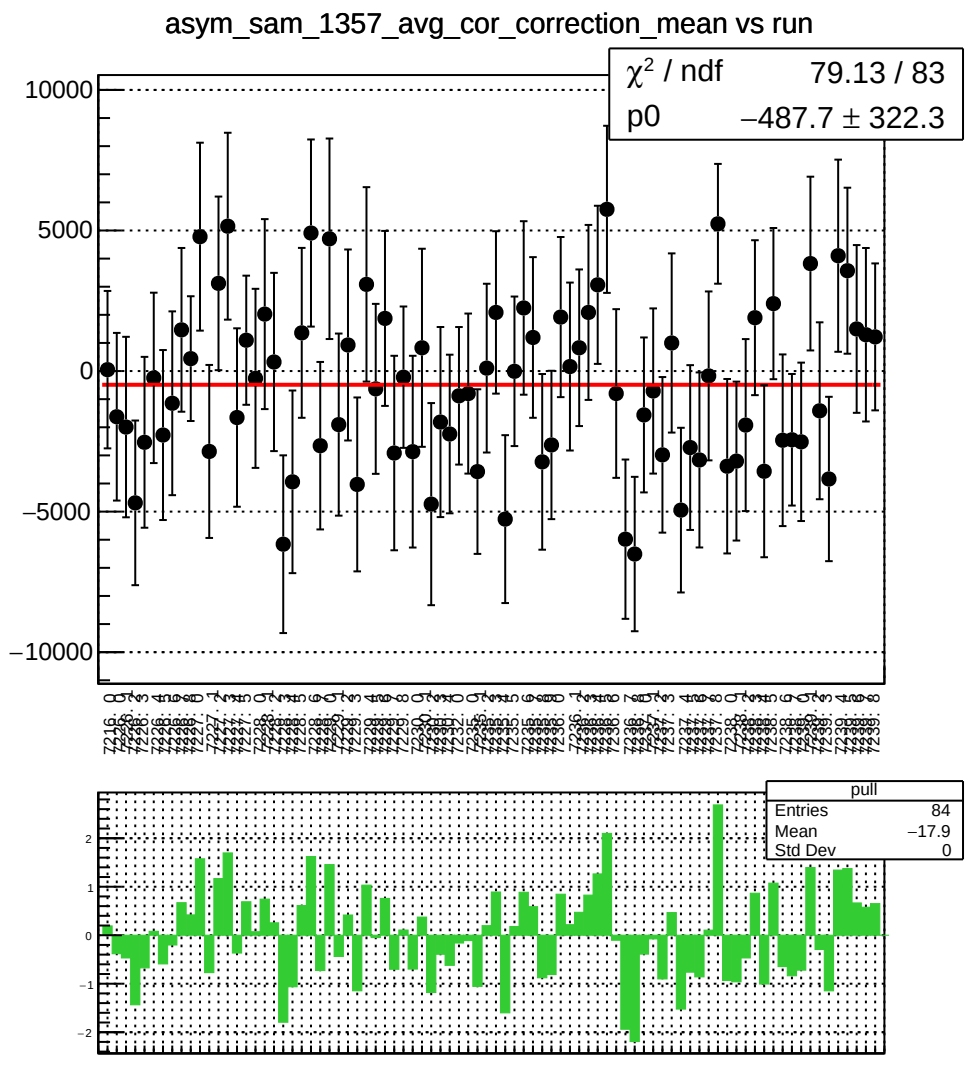

pull1D
Entries 84
Mean −0.005471
Std Dev 0.9705
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

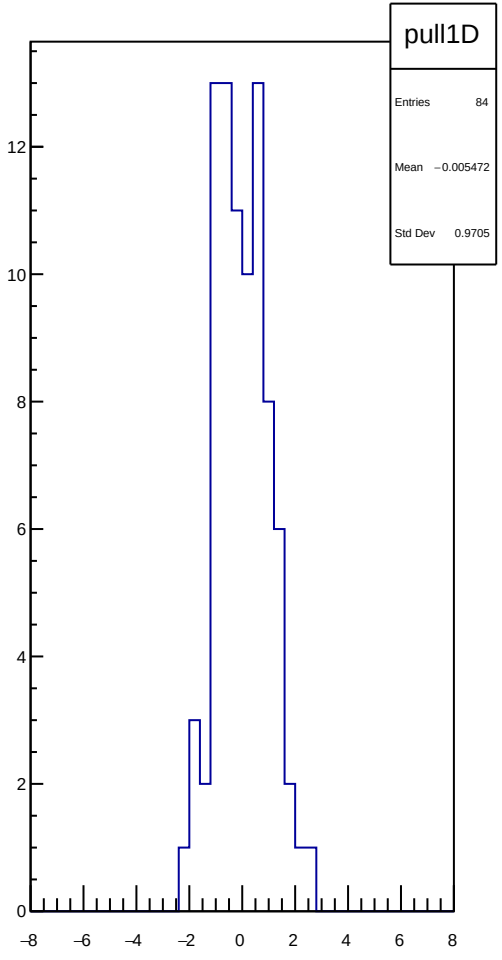

asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 7182 / 83
p0 290 ± 0.2279
340
320
300
280
260

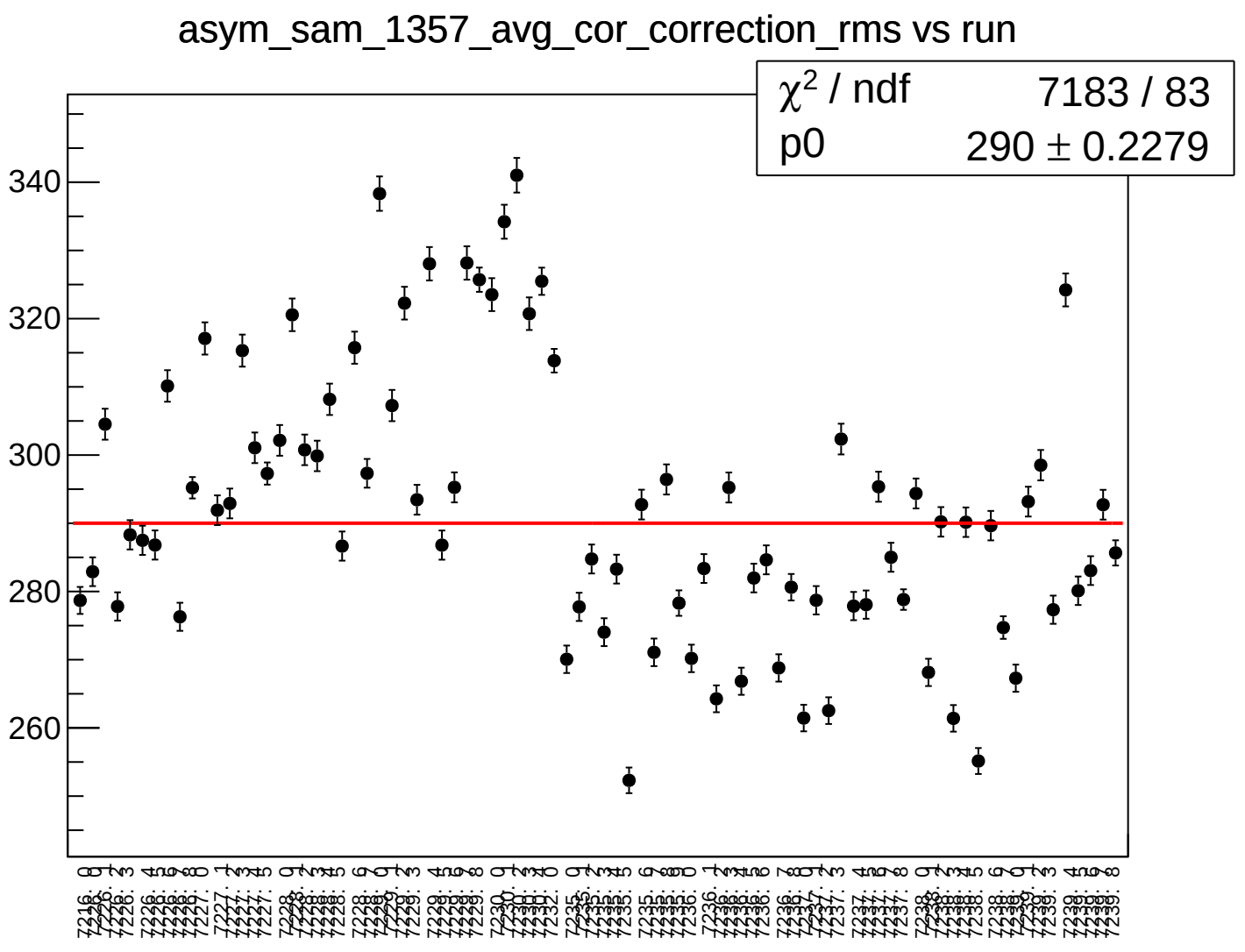

cor_asym_sam_1357_avg_mean vs run
χ² / ndf 78.61 / 83
p0 −123.1± 50.17
pull
Entries 84
Mean 212.5
Std Dev 0

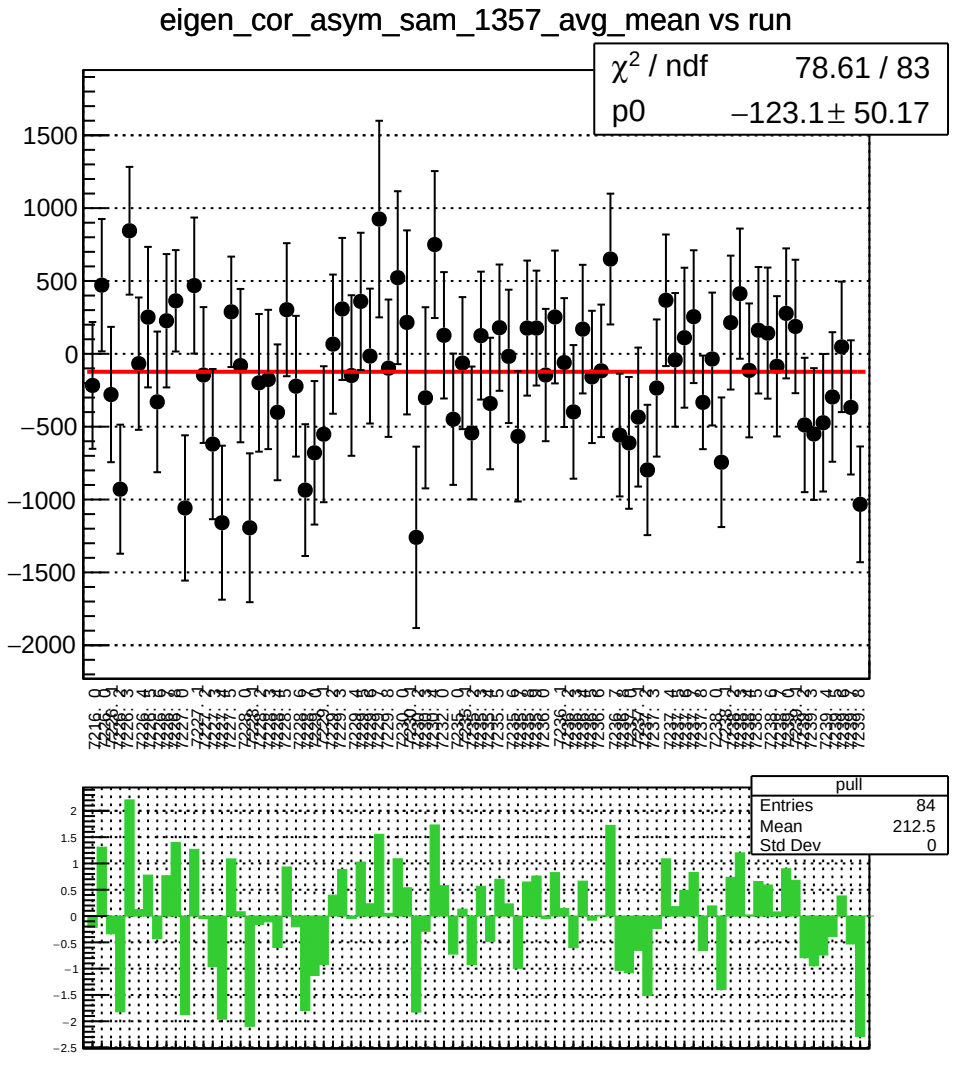

pull1D
Entries 84
Mean −0.005665
Std Dev 0.9674

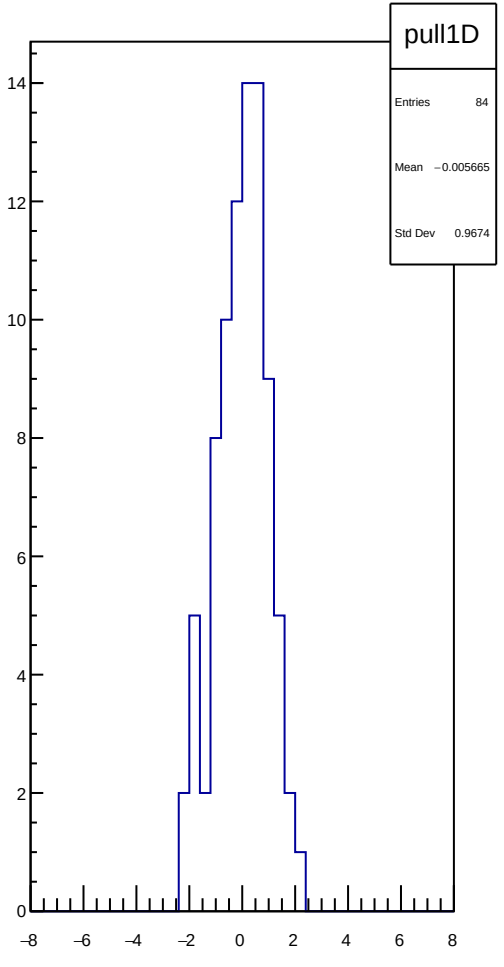

cor_asym_sam_1357_avg_rms vs run
χ^2 / ndf 1.547e+04 / 83
p0 45.03 ± 0.03548
65
60
55
50
45
40

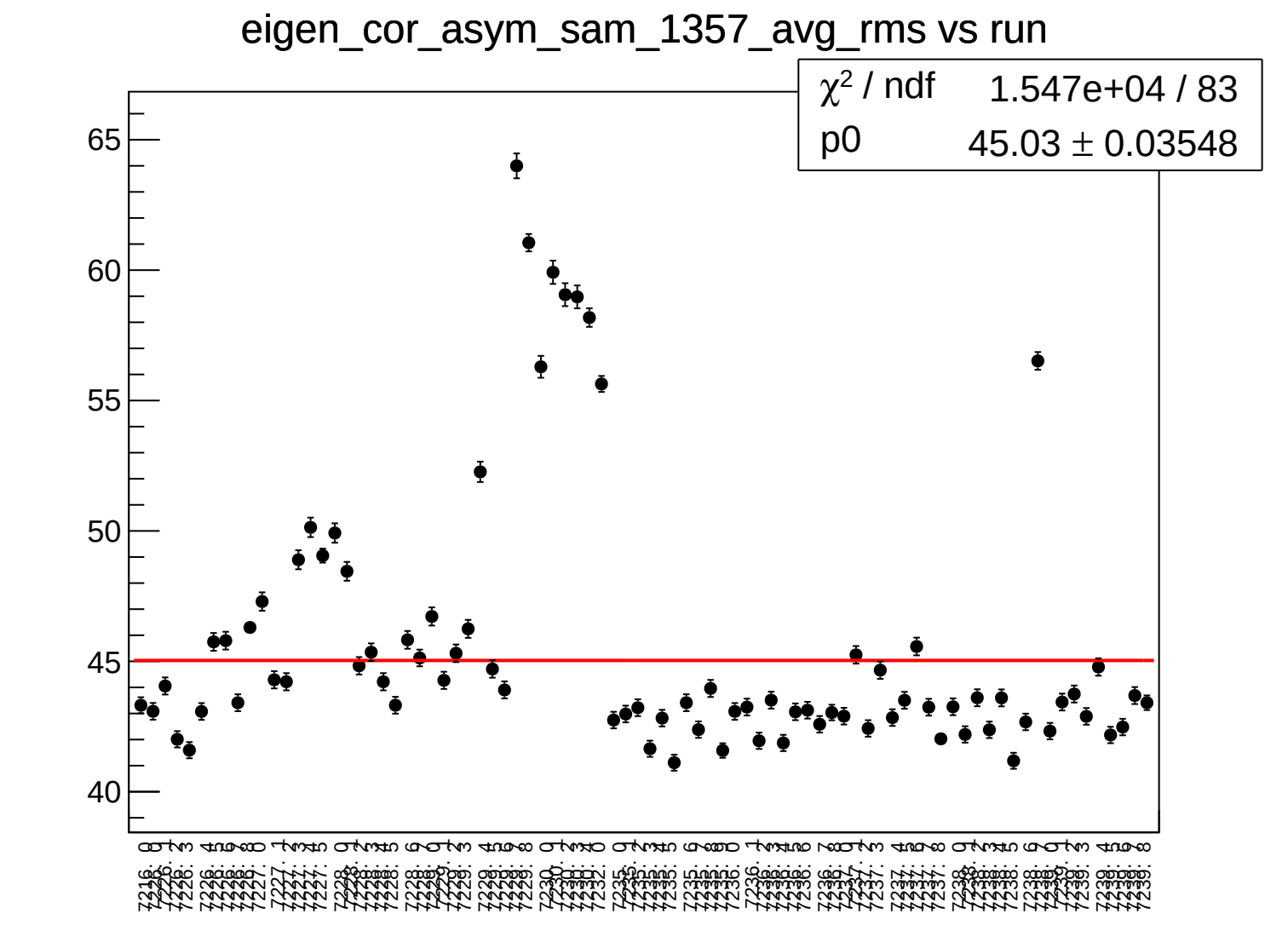

asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 79.13 / 83
p0 −487.7 ± 322.3
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −17.9
Std Dev 0
2
1
0
−1
−2

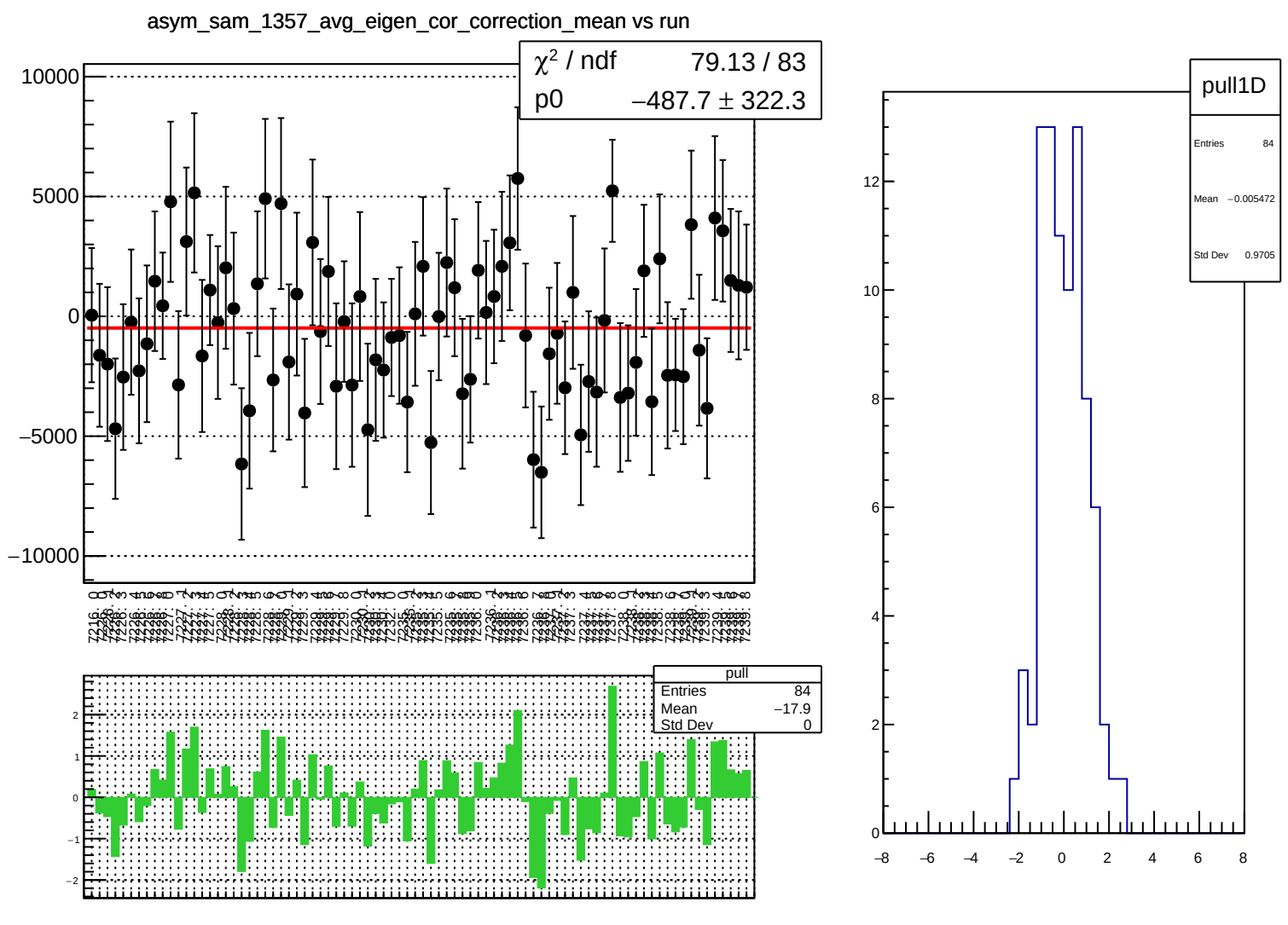

pull1D
Entries 84
Mean −0.005472
Std Dev 0.9705
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

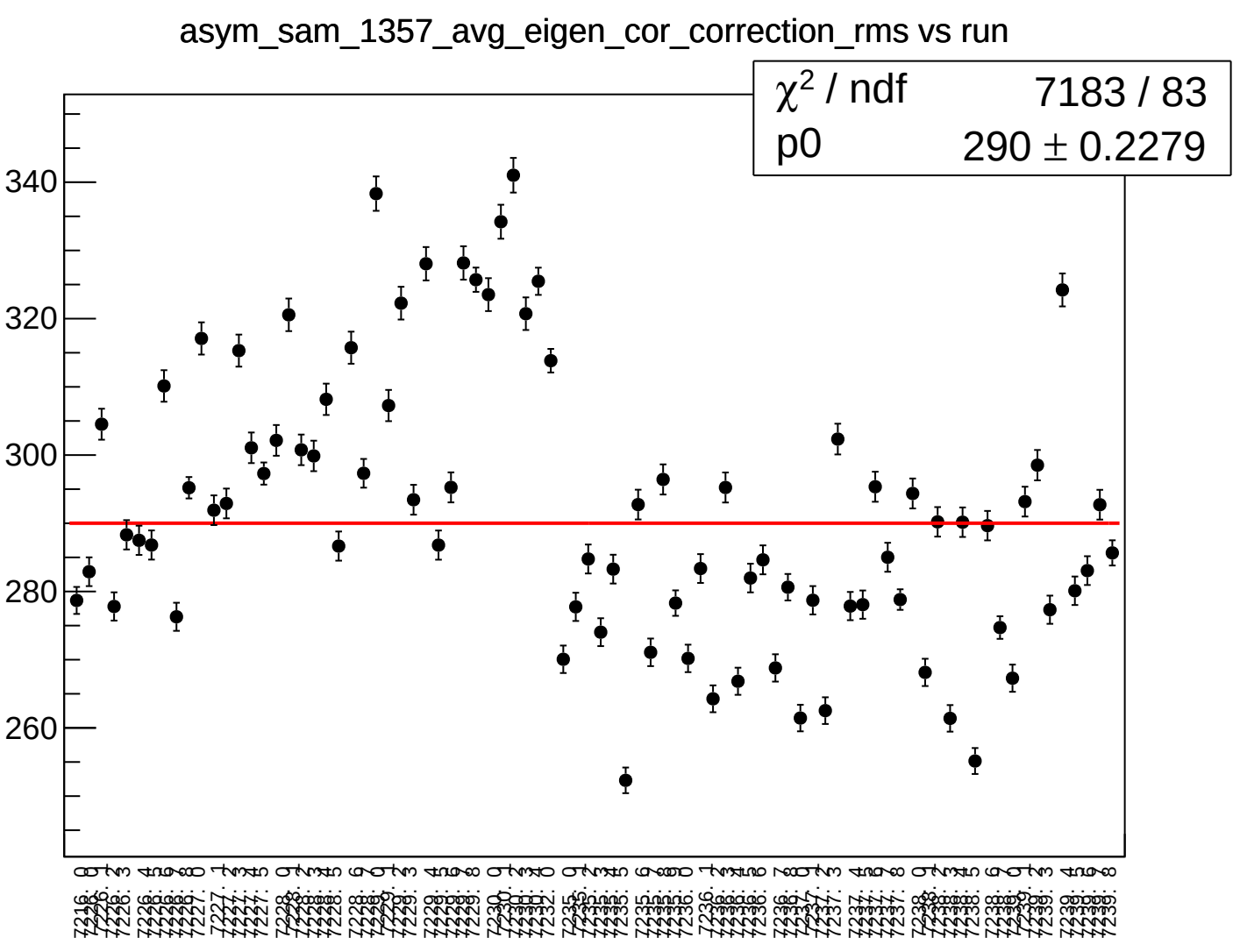

asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 7183 / 83
p0 290 ± 0.2279
340
320
300
280
260

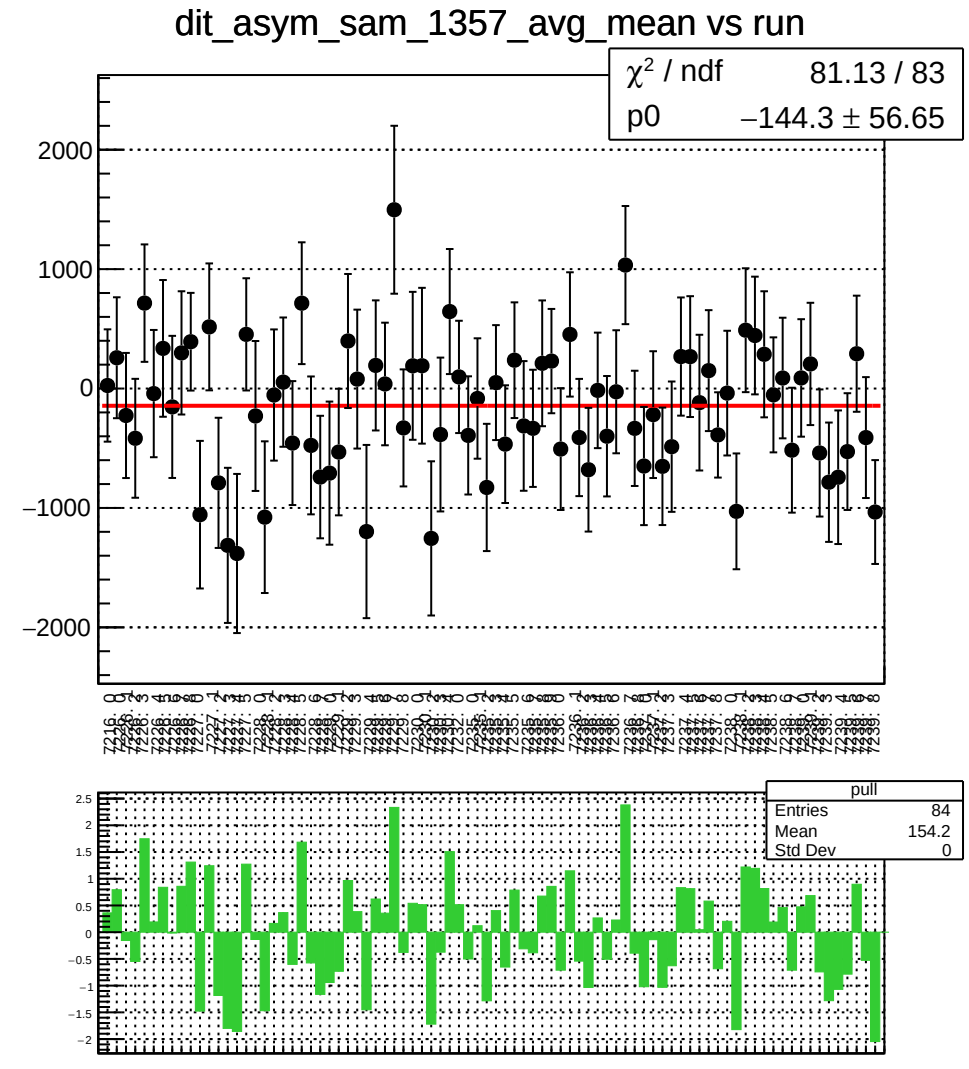

eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 78.61 / 83
p0 −123.1± 50.17
pull
Entries 84
Mean 212.5
Std Dev 0

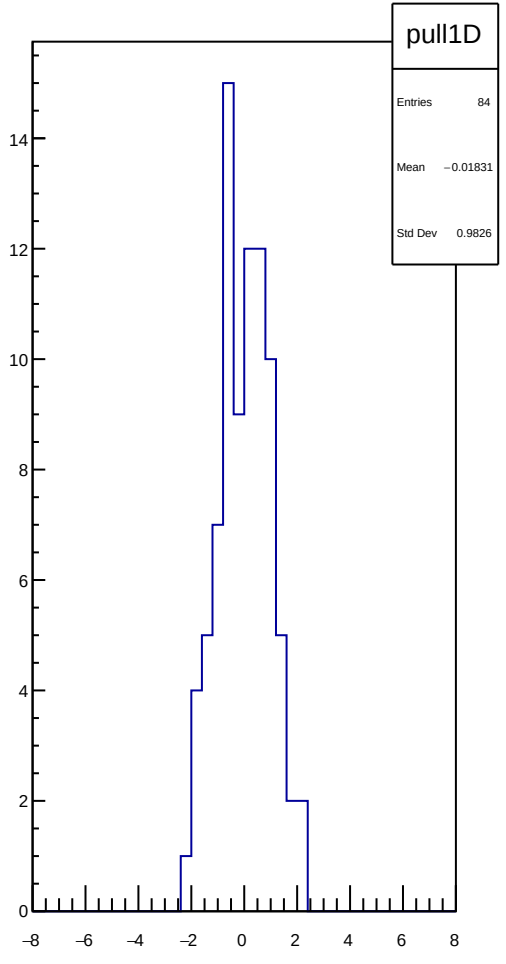

pull1D
Entries 84
Mean −0.005665
Std Dev 0.9674

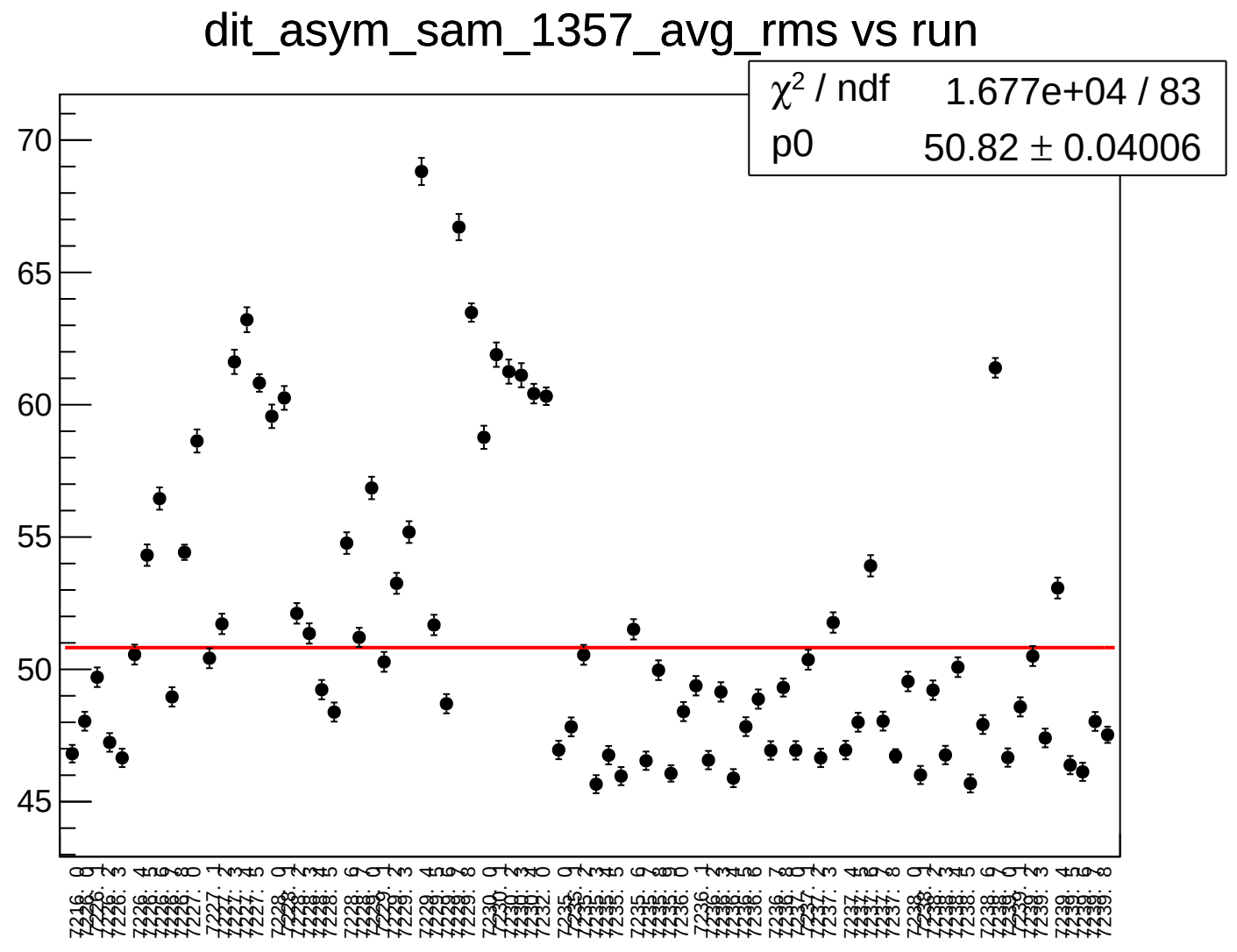

eigen_cor_asym_sam_1357_avg_rms vs run
χ² / ndf 1.547e+04 / 83
p0 45.03 ± 0.03548
65
60
55
50
45
40

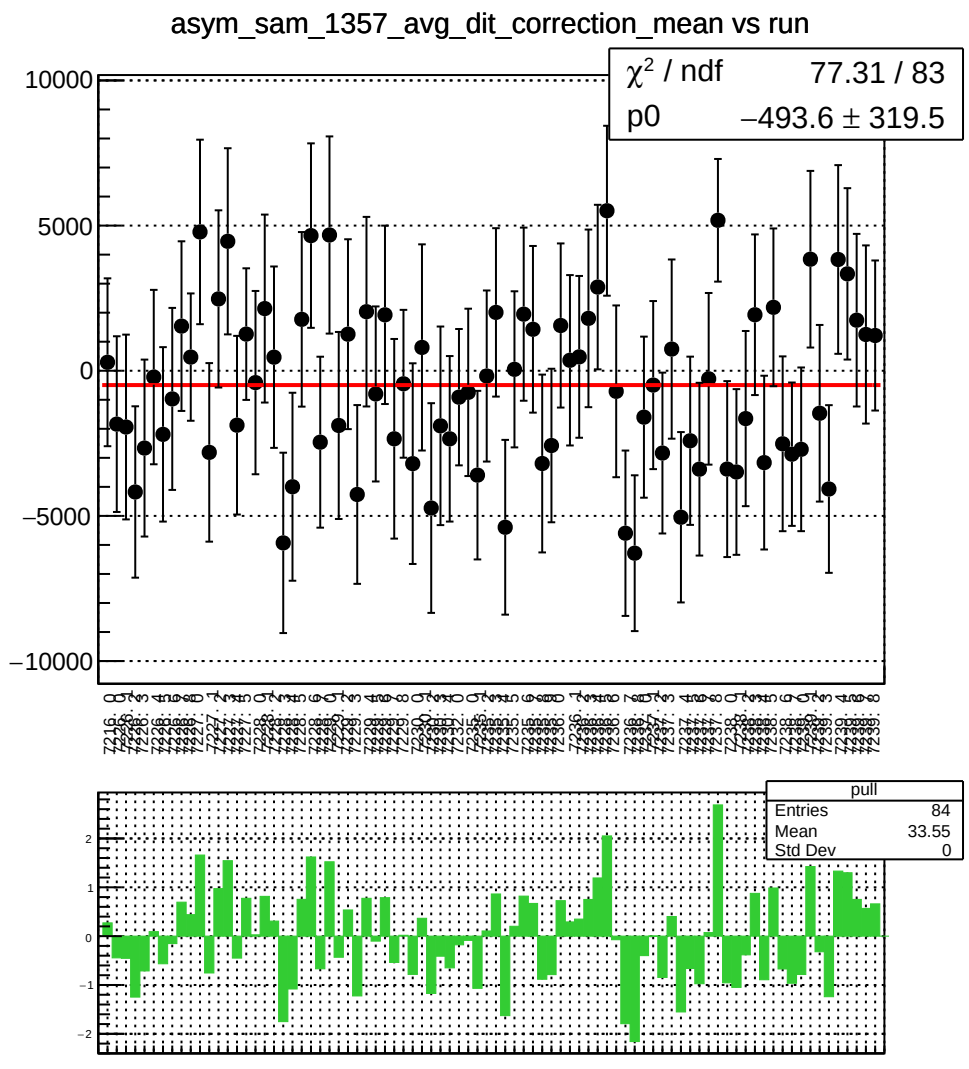

asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 79.13 / 83
p0 −487.7 ± 322.3
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −17.9
Std Dev 0
pull1D
Entries 84
Mean −0.005472
Std Dev 0.9705

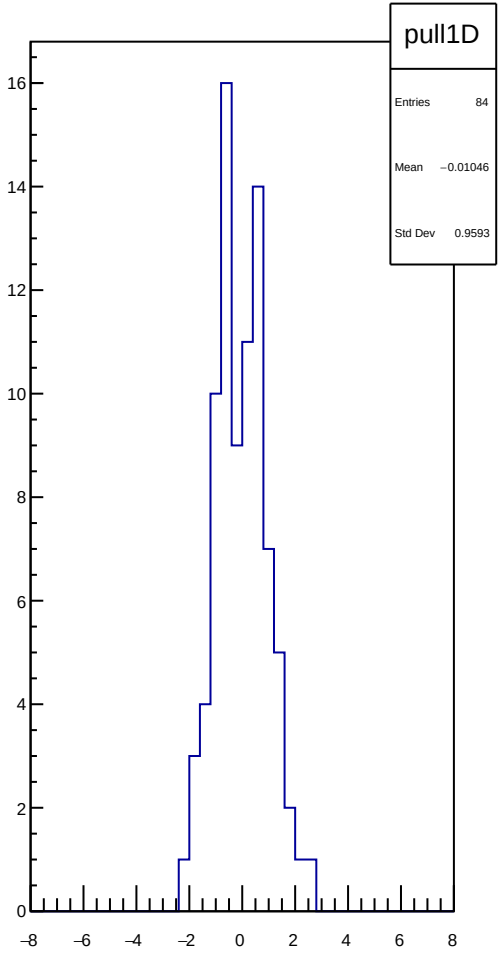

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 7183 / 83
p0 290 ± 0.2279
340
320
300
280
260

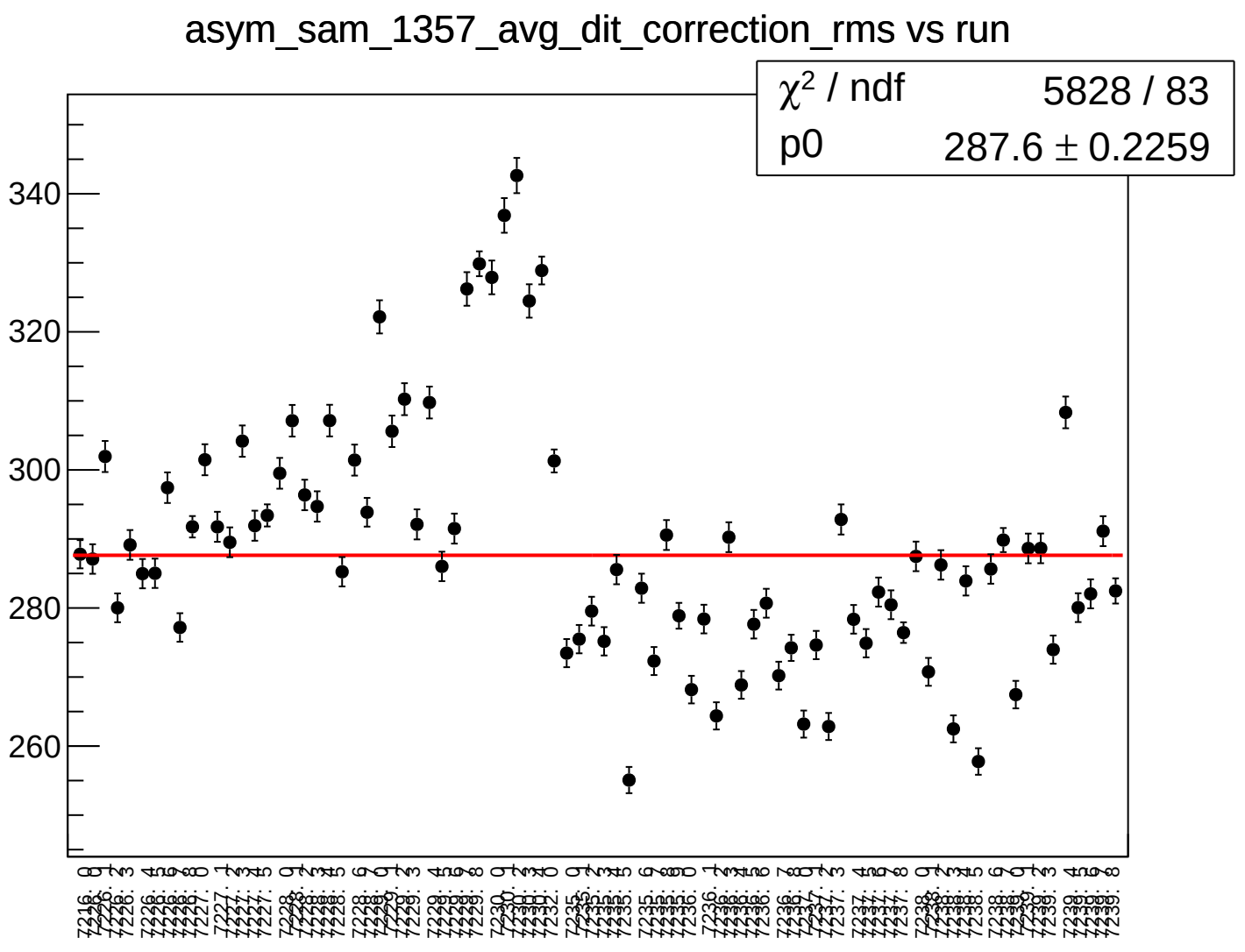

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 81.13 / 83
p0 −144.3 ± 56.65
2000
1000
0
−1000
−2000
pull
Entries 84
Mean 154.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

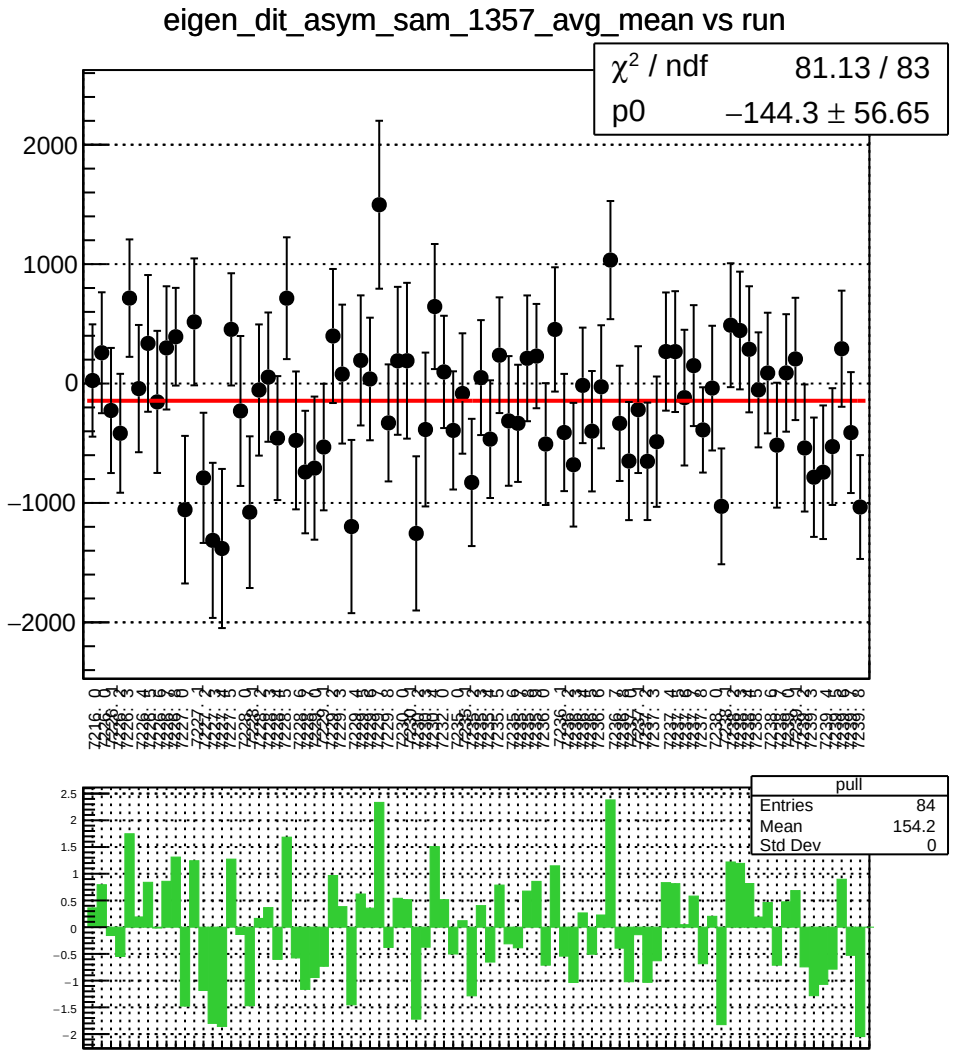

pull1D
Entries 84
Mean −0.01831
Std Dev 0.9826
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

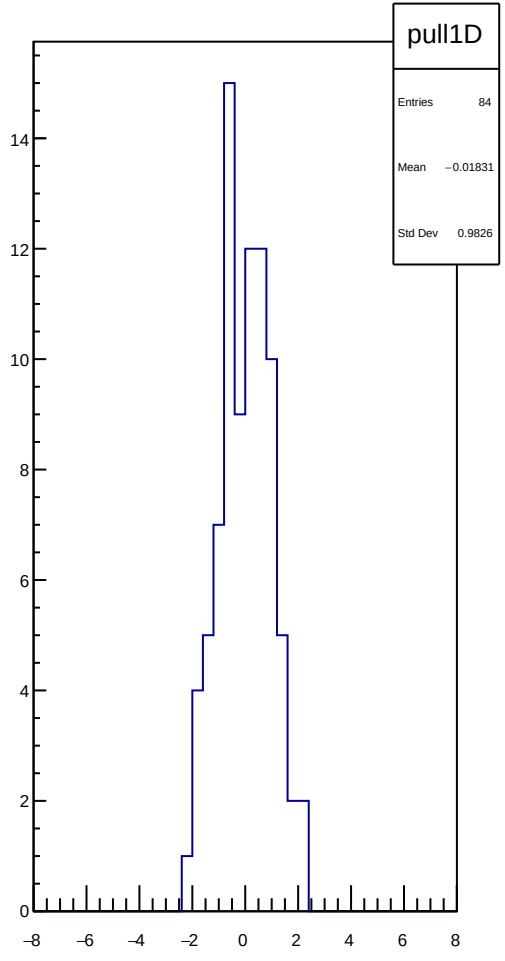

dit_asym_sam_1357_avg_rms vs run
χ^2 / ndf 1.677e+04 / 83
p0 50.82 ± 0.04006
70
65
60
55
50
45

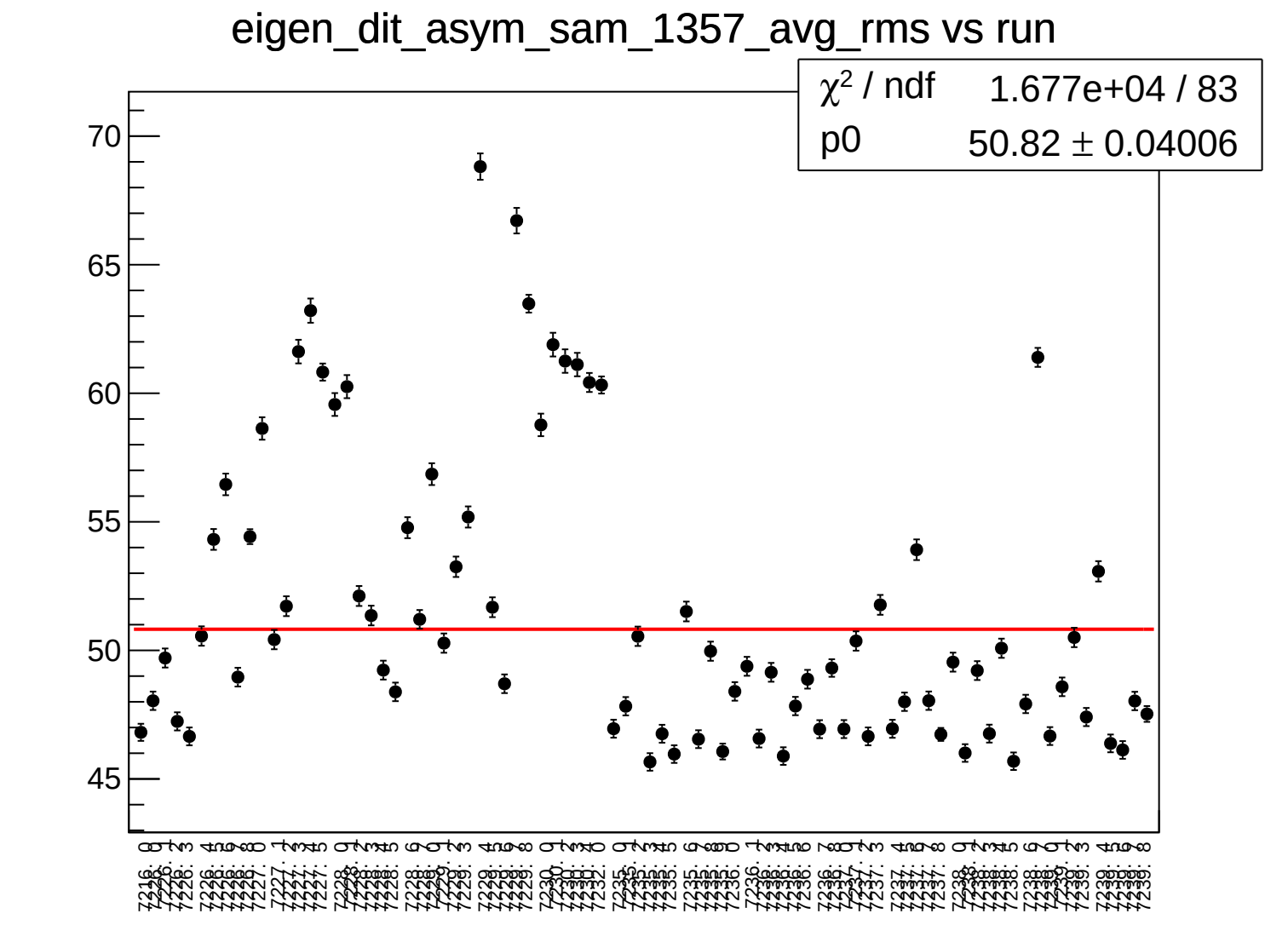

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 77.31 / 83
p0 −493.6 ± 319.5
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 33.55
Std Dev 0
2
1
0
−1
−2

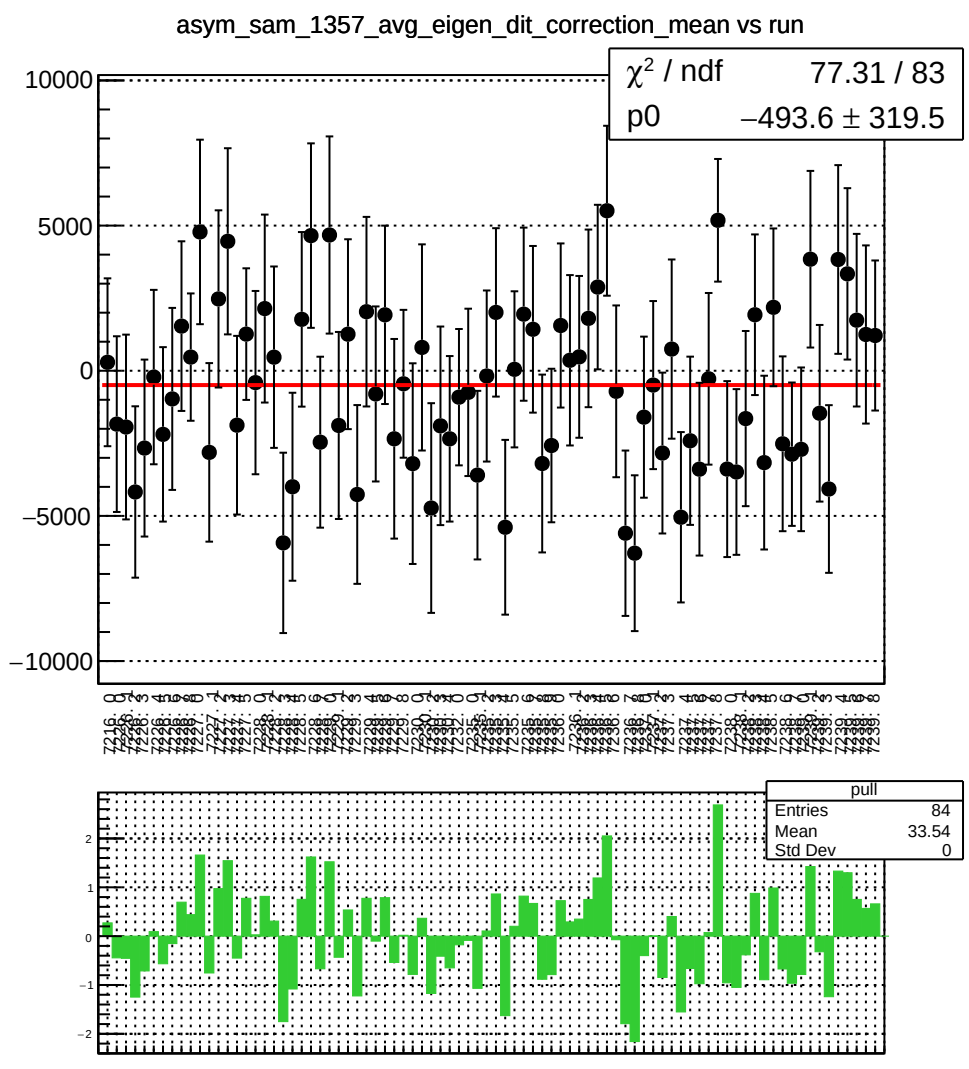

pull1D
Entries 84
Mean −0.01046
Std Dev 0.9593
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

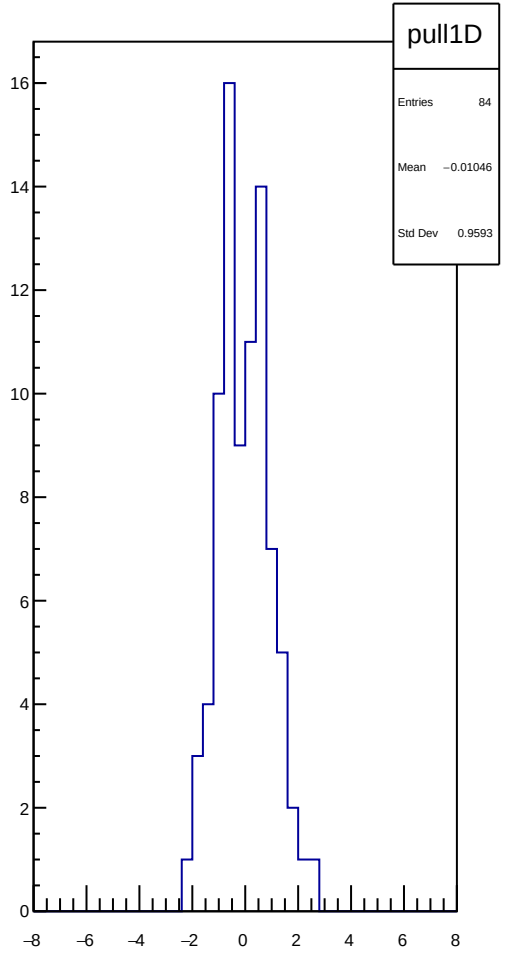

asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 5828 / 83
p0 287.6 ± 0.2259
340
320
300
280
260

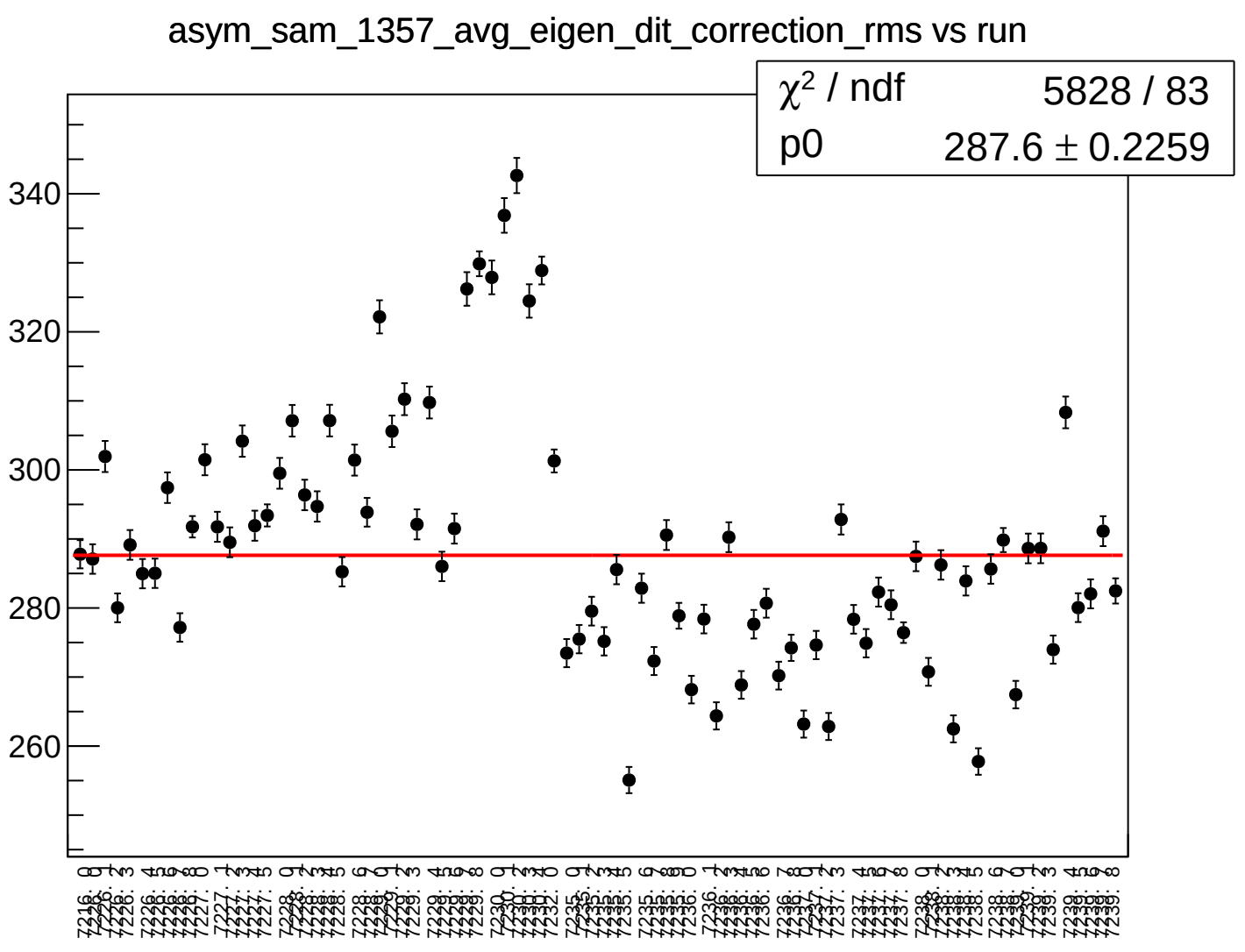

eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 81.13 / 83
p0 −144.3 ± 56.65
2000
1000
0
−1000
−2000
pull
Entries 84
Mean 154.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

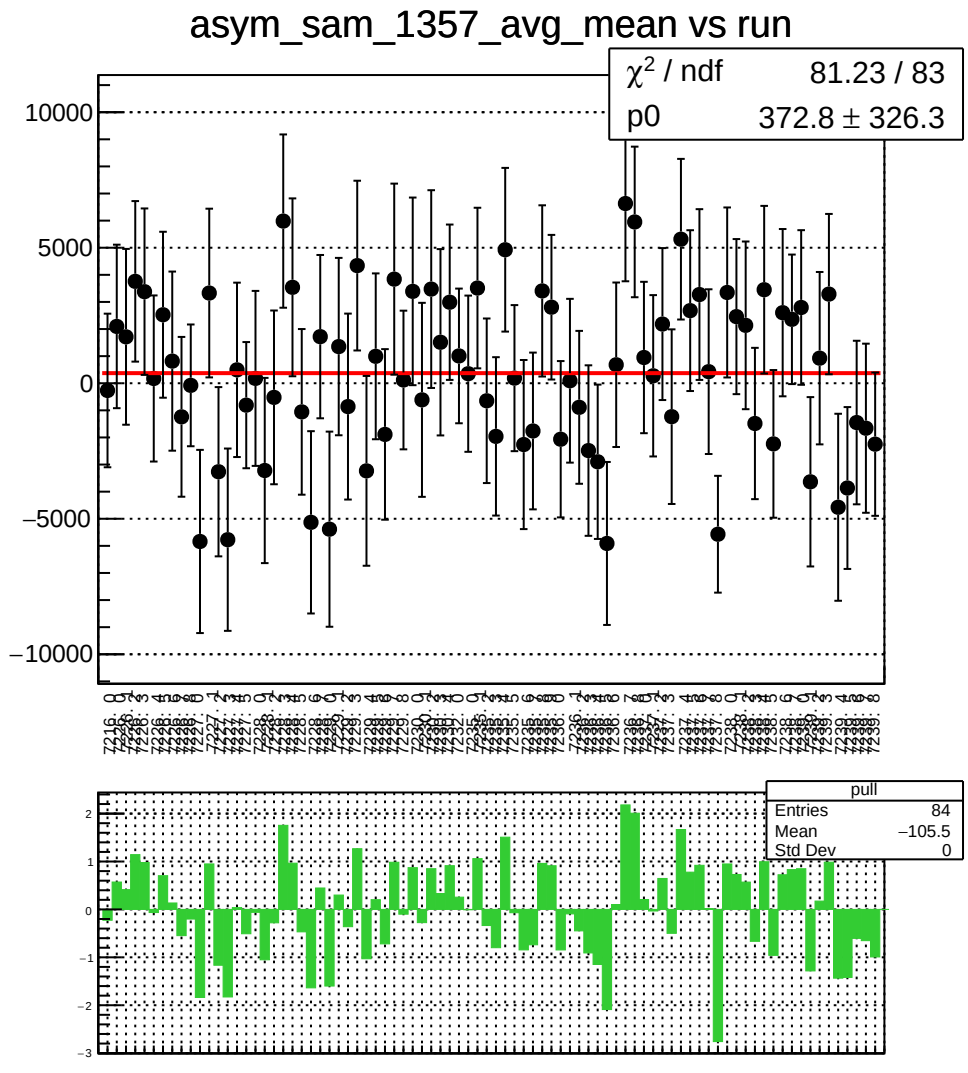

pull1D
Entries 84
Mean −0.01831
Std Dev 0.9826
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

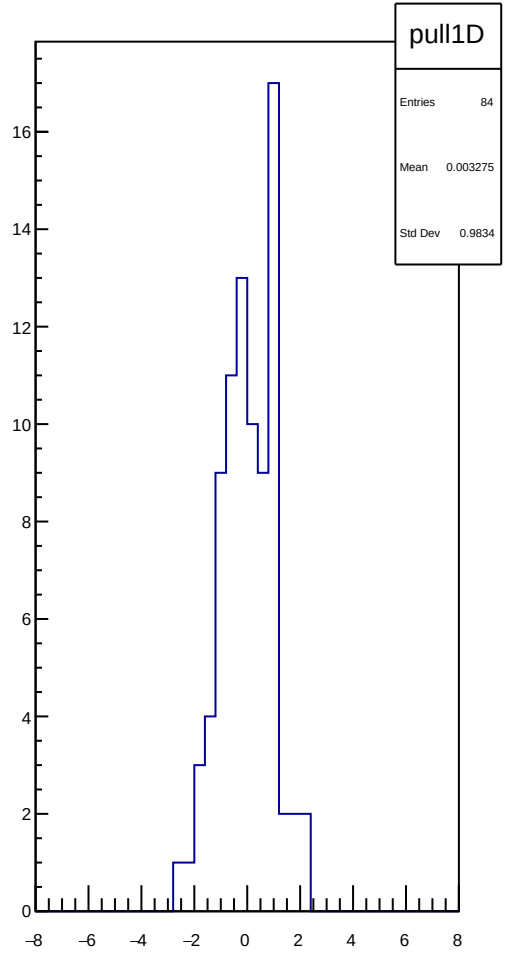

eigen_dit_asym_sam_1357_avg_rms vs run
χ^2 / ndf 1.677e+04 / 83
p0 50.82 ± 0.04006
70
65
60
55
50
45

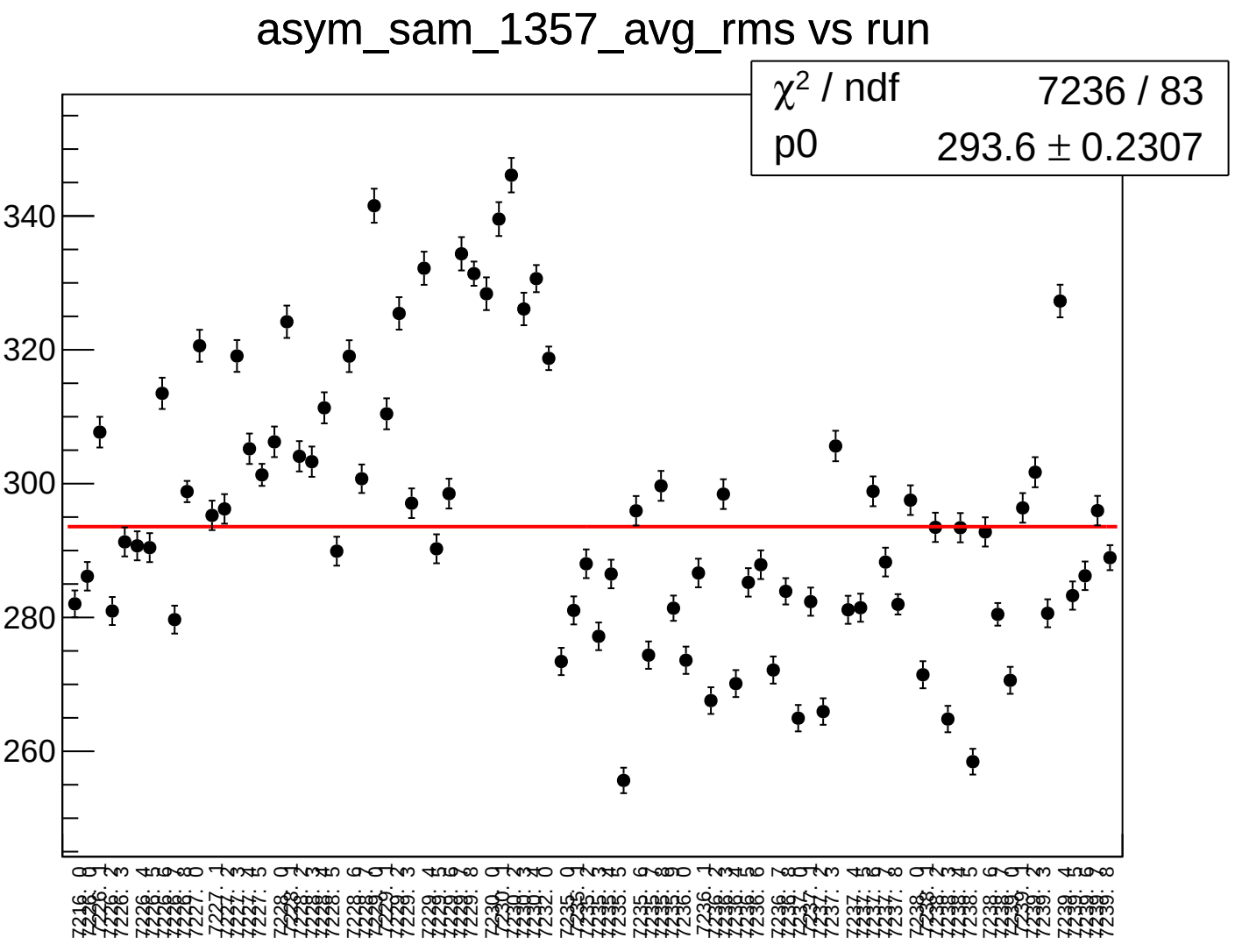

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 77.31 / 83
p0 −493.6 ± 319.5
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 33.54
Std Dev 0
2
1
0
−1
−2

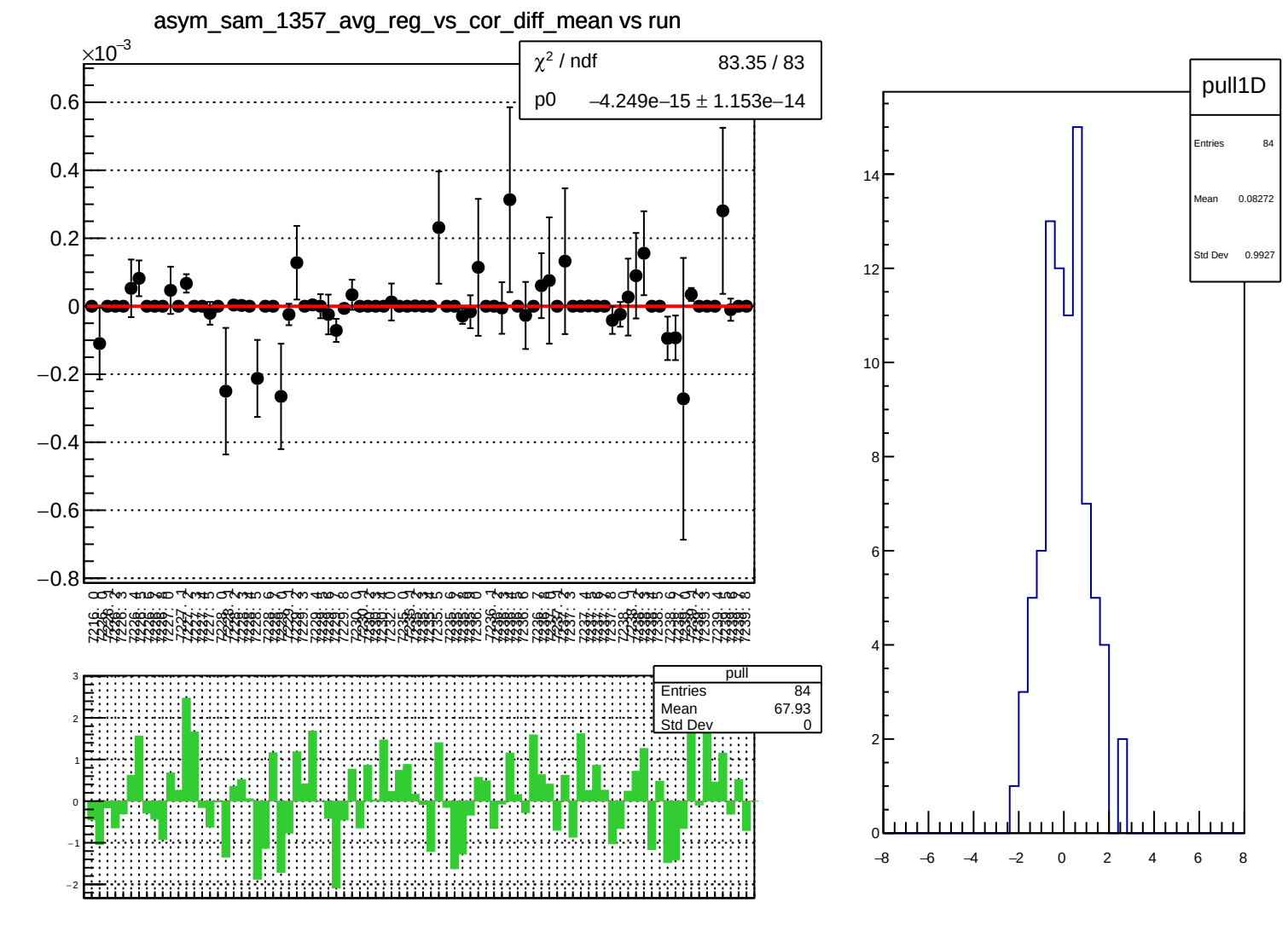

pull1D
Entries 84
Mean −0.01046
Std Dev 0.9593
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

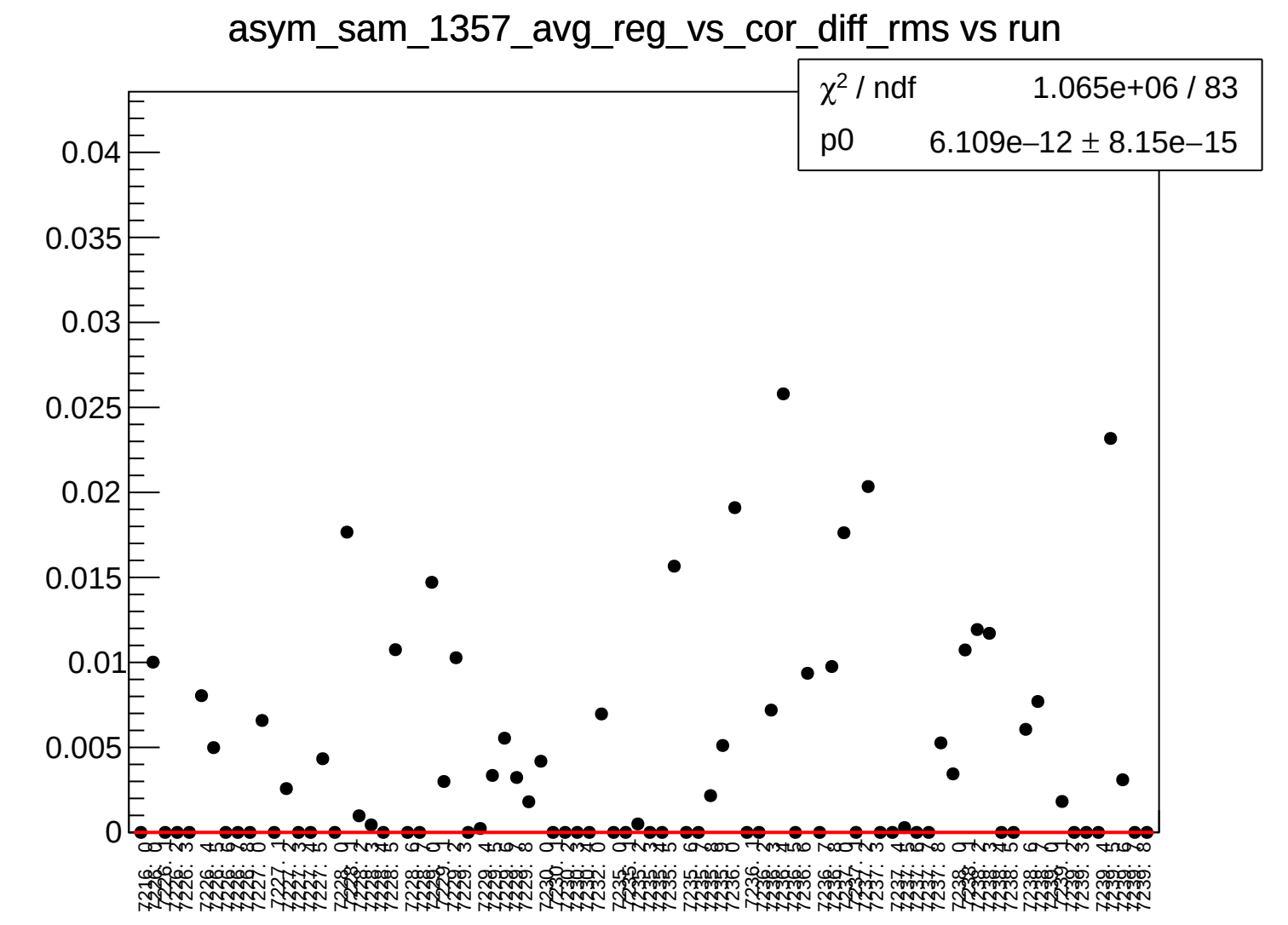

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ² / ndf 5828 / 83
p0 287.6 ± 0.2259
340
320
300
280
260

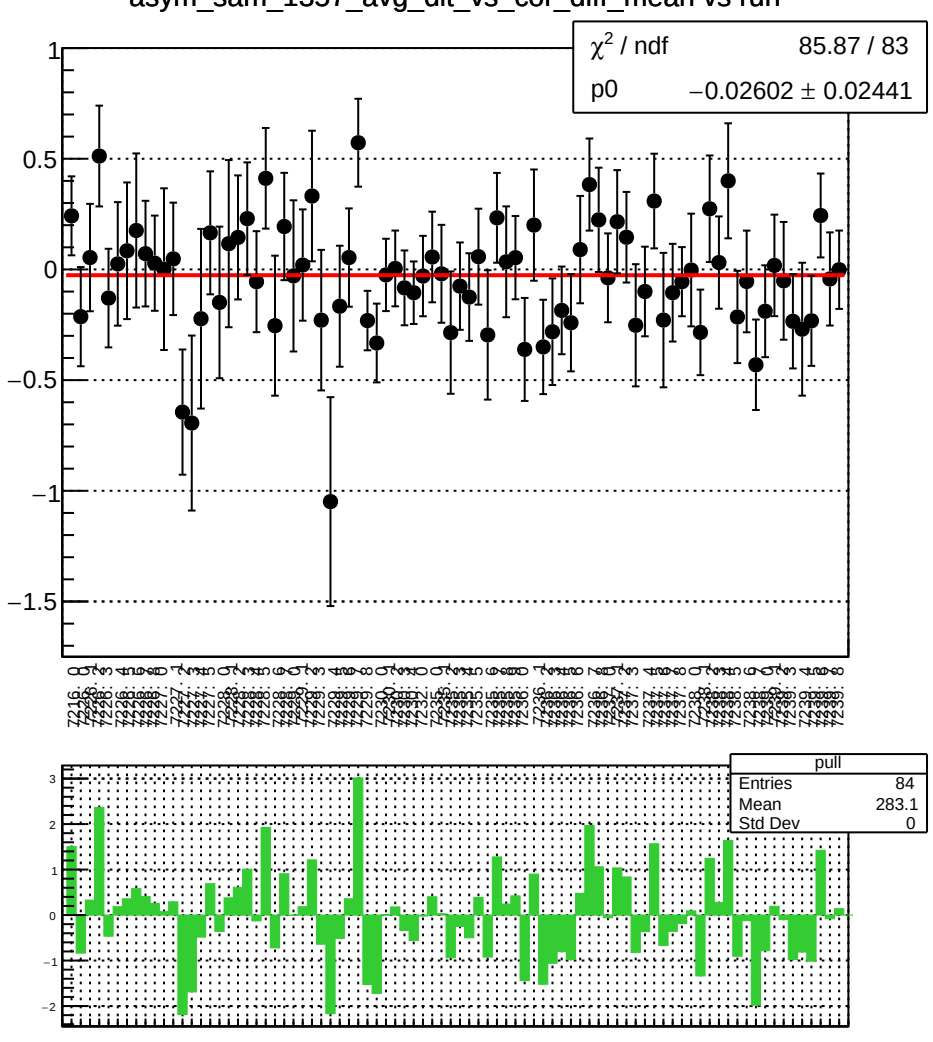

asym_sam_1357_avg_mean vs run
χ² / ndf 81.23 / 83
p0 372.8 ± 326.3
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −105.5
Std Dev 0
2
1
0
−1
−2
−3

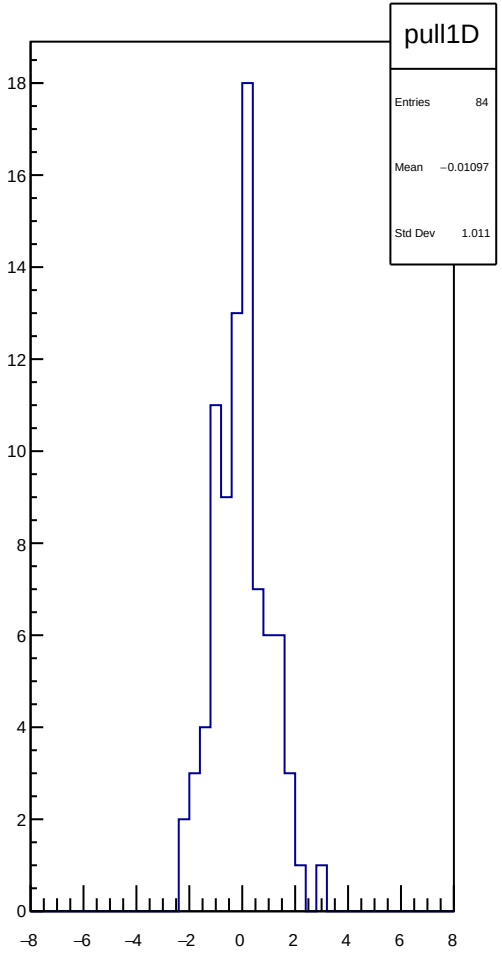

pull1D
Entries 84
Mean 0.003275
Std Dev 0.9834
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

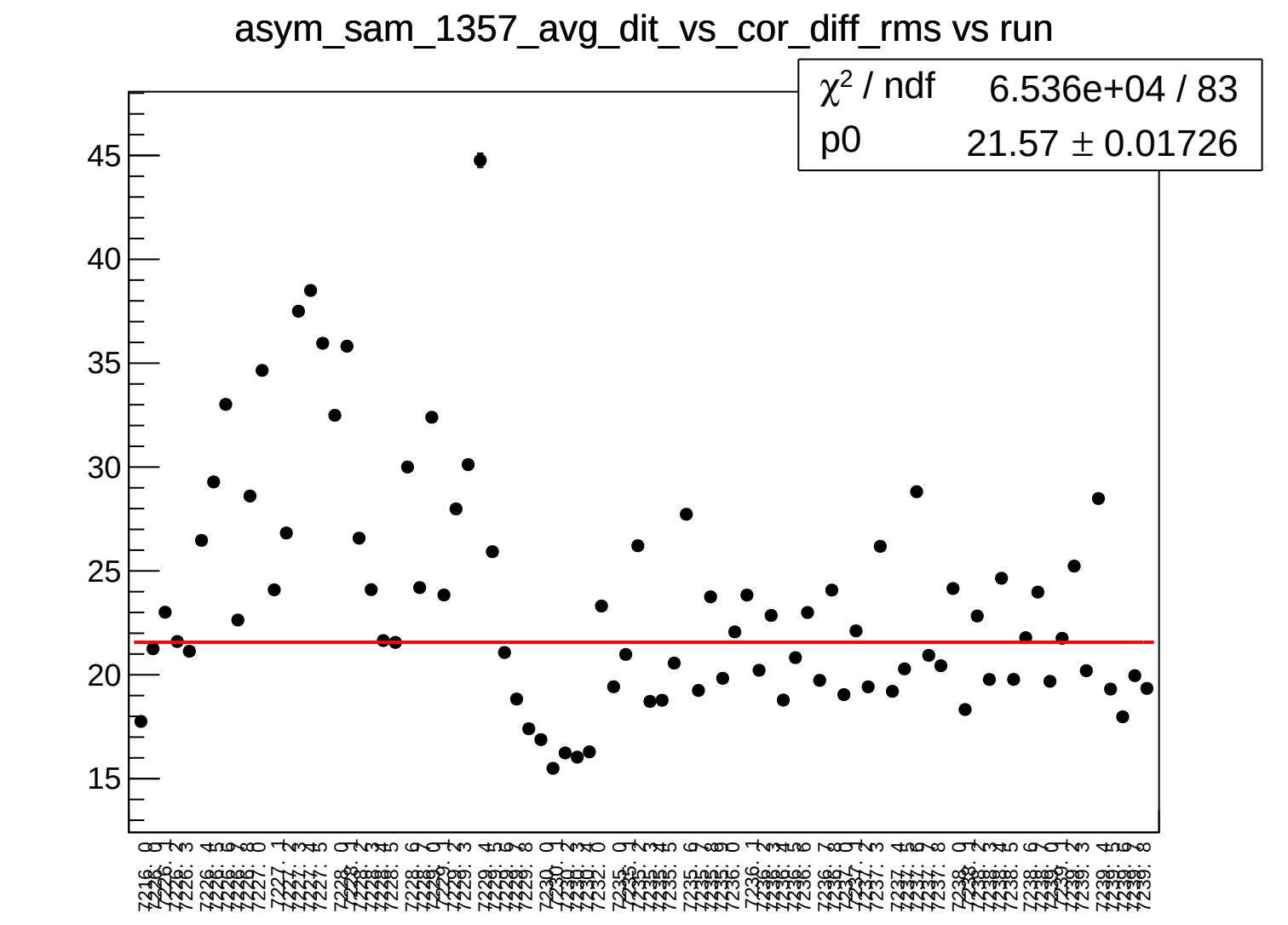

asym_sam_1357_avg_rms vs run
χ² / ndf 7236 / 83
p0 293.6 ± 0.2307
340
320
300
280
260

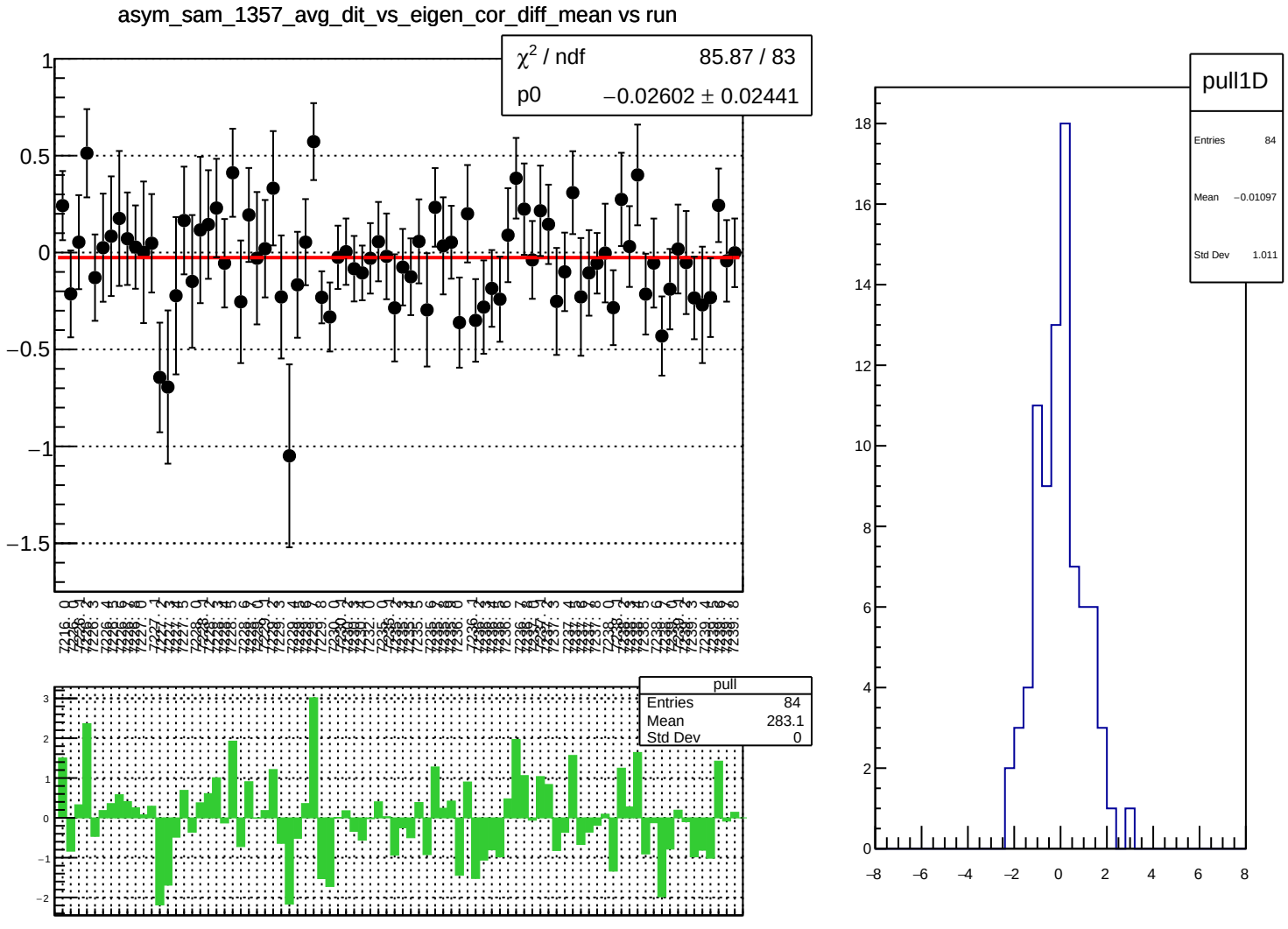

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 83.35 / 83
p0 −4.249e−15 ± 1.153e−14
pull
Entries 84
Mean 67.93
Std Dev 0
pull1D
Entries 84
Mean 0.08272
Std Dev 0.9927

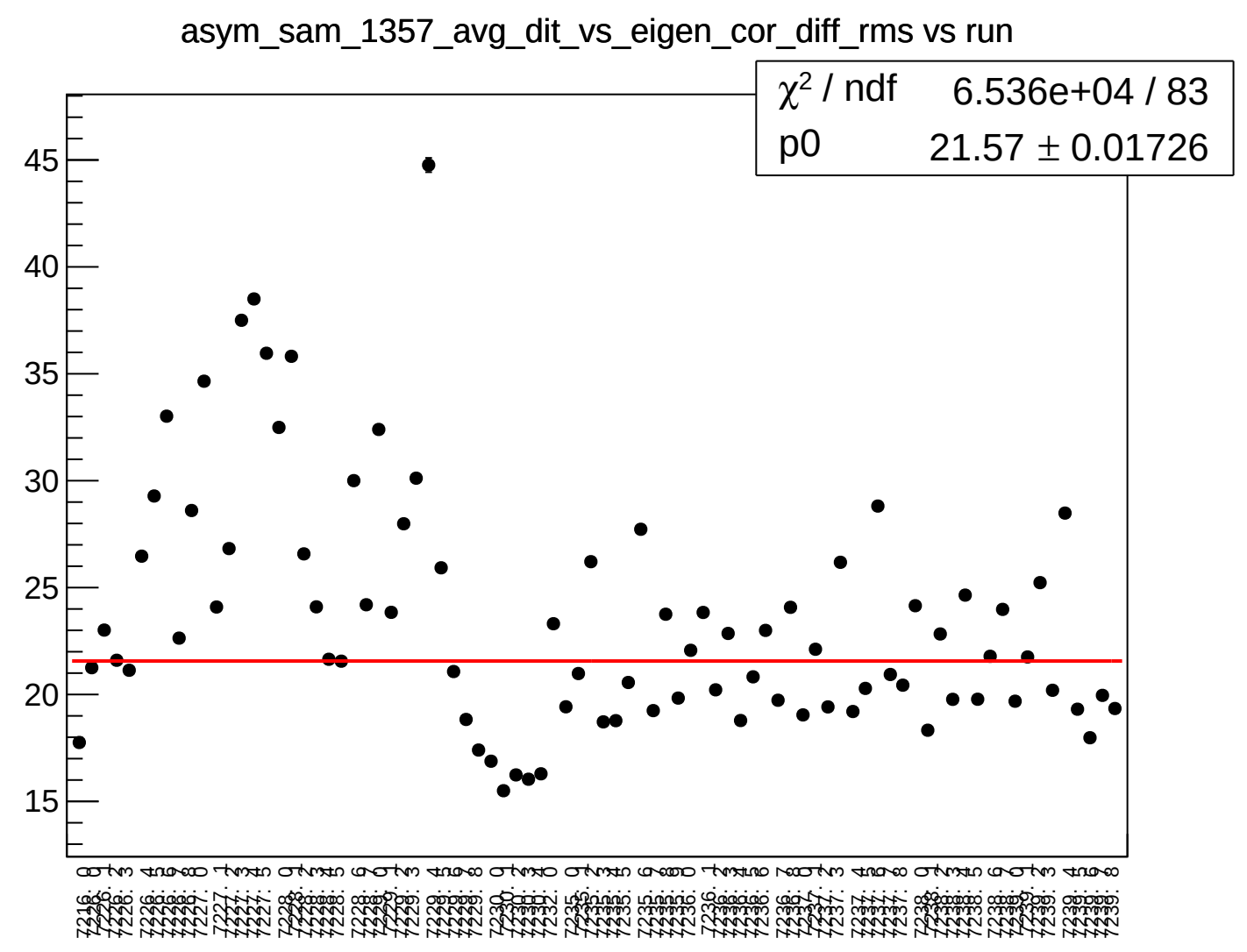

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.065e+06 / 83
p0 6.109e−12 ± 8.15e−15
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

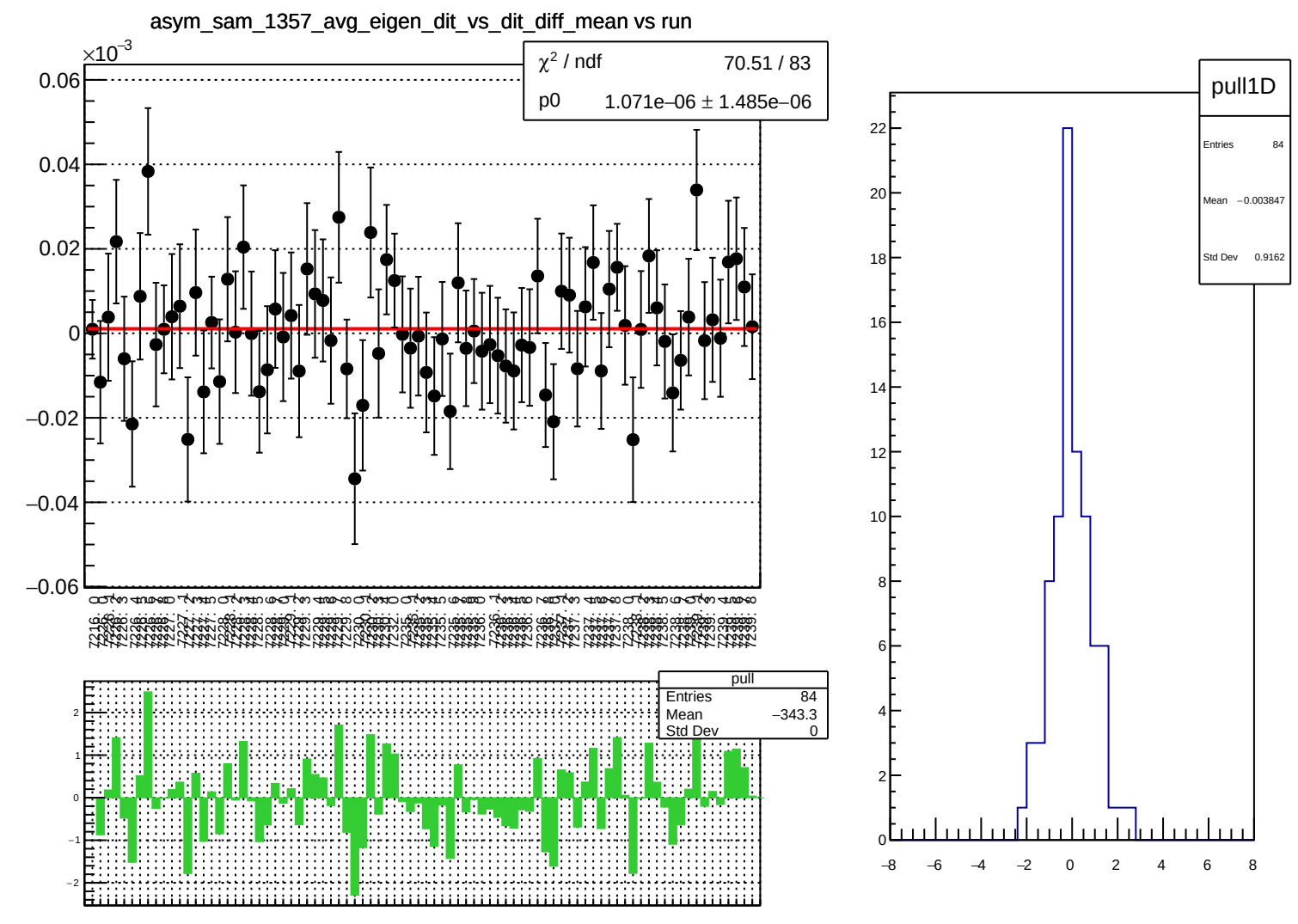

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 85.87 / 83
p0 −0.02602 ± 0.02441
pull
Entries 84
Mean 283.1
Std Dev 0

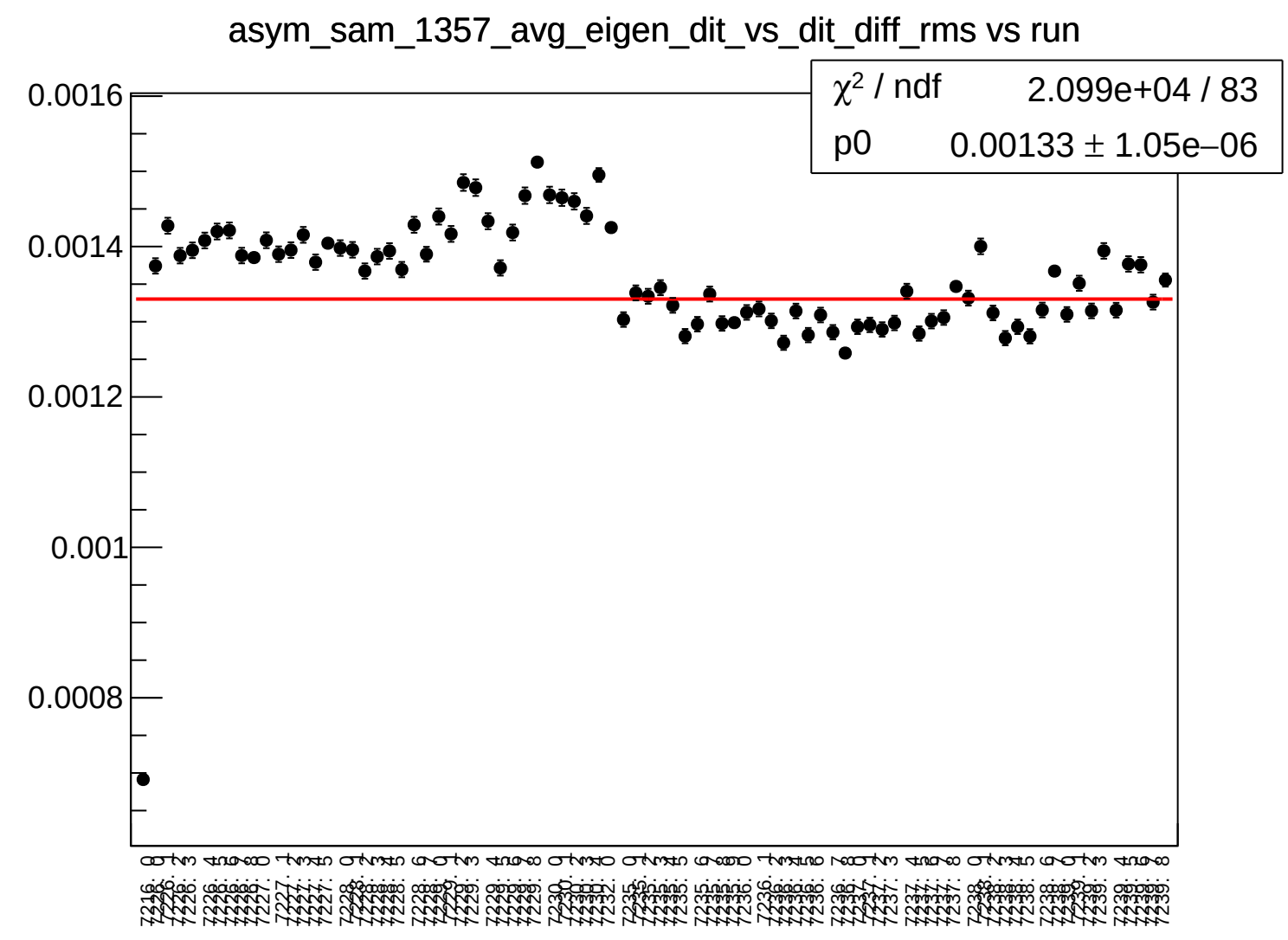

pull1D
Entries 84
Mean −0.01097
Std Dev 1.011

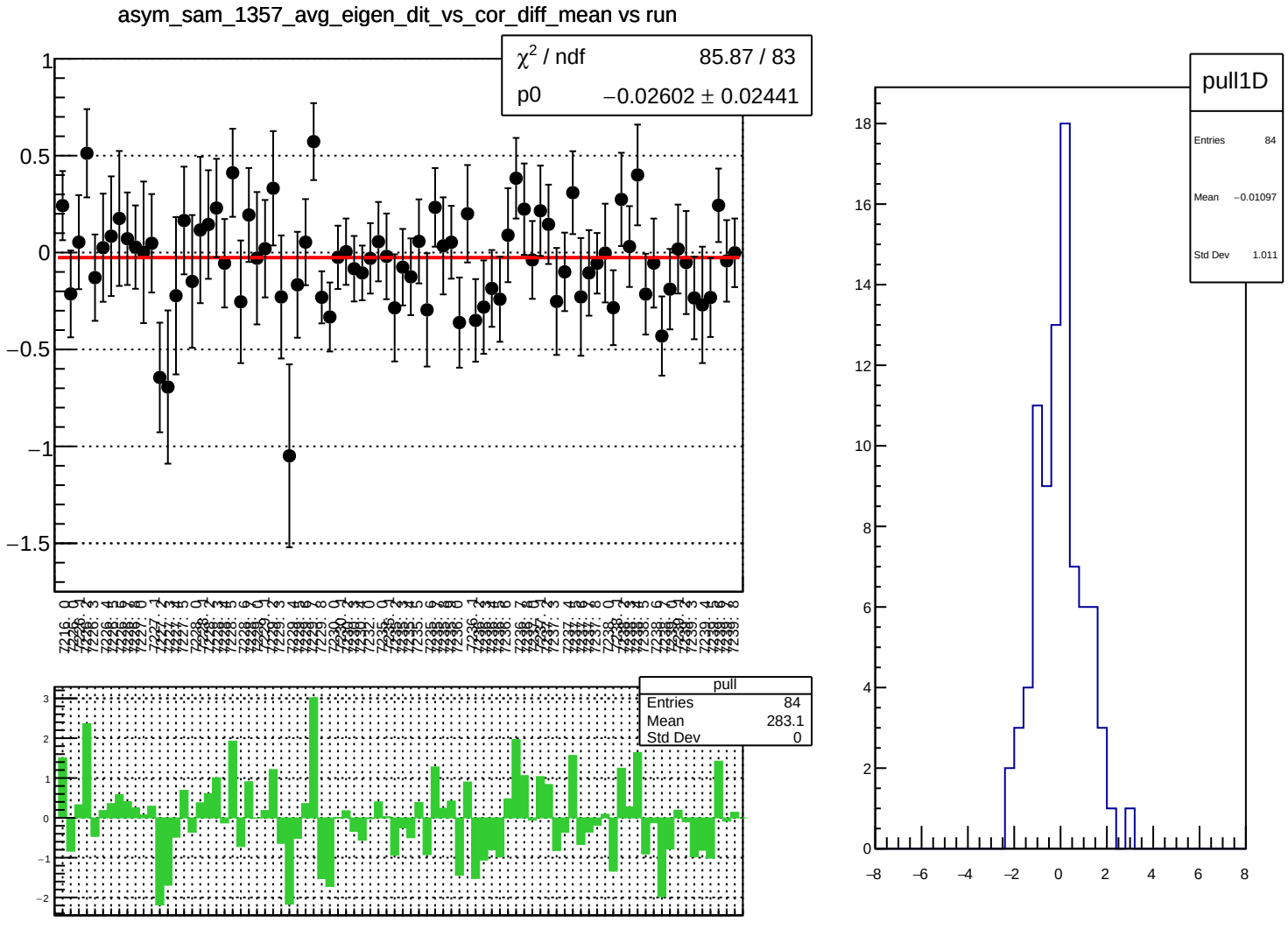

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.536e+04 / 83
p0 21.57 ± 0.01726
45
40
35
30
25
20
15

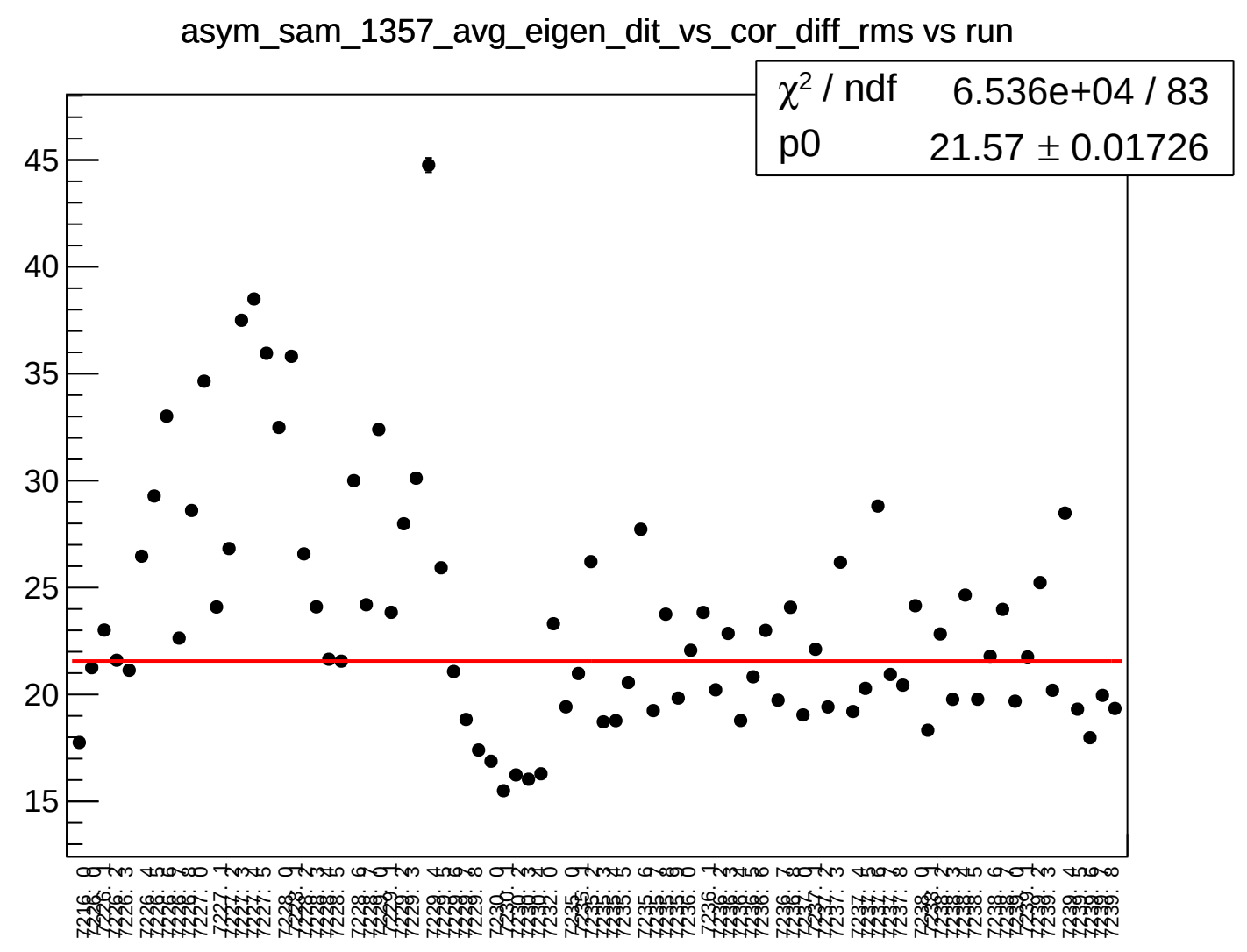

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.87 / 83
p0 −0.02602 ± 0.02441
pull
Entries 84
Mean 283.1
Std Dev 0
pull1D
Entries 84
Mean −0.01097
Std Dev 1.011

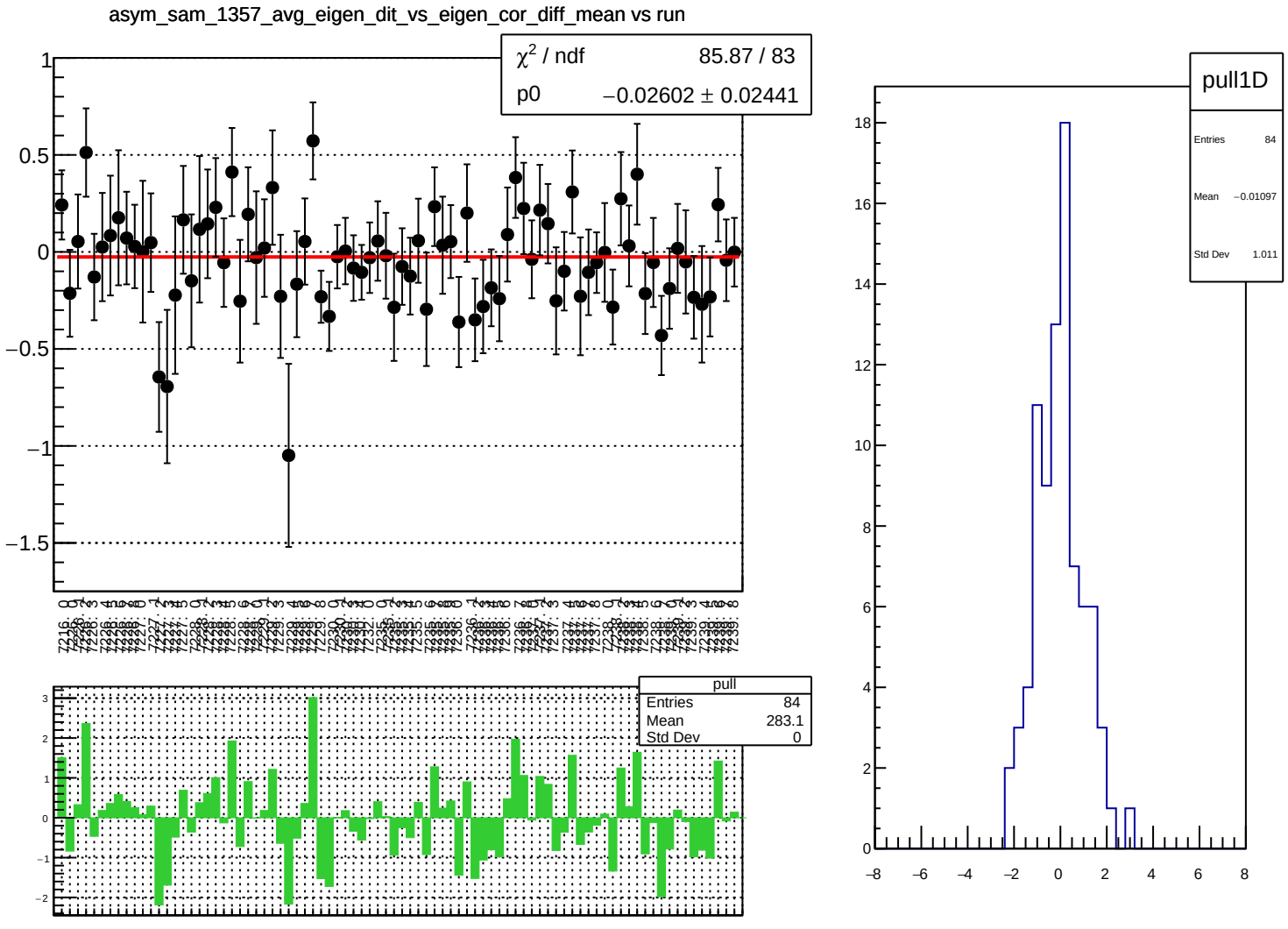

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.536e+04 / 83
p0 21.57 ± 0.01726
45
40
35
30
25
20
15

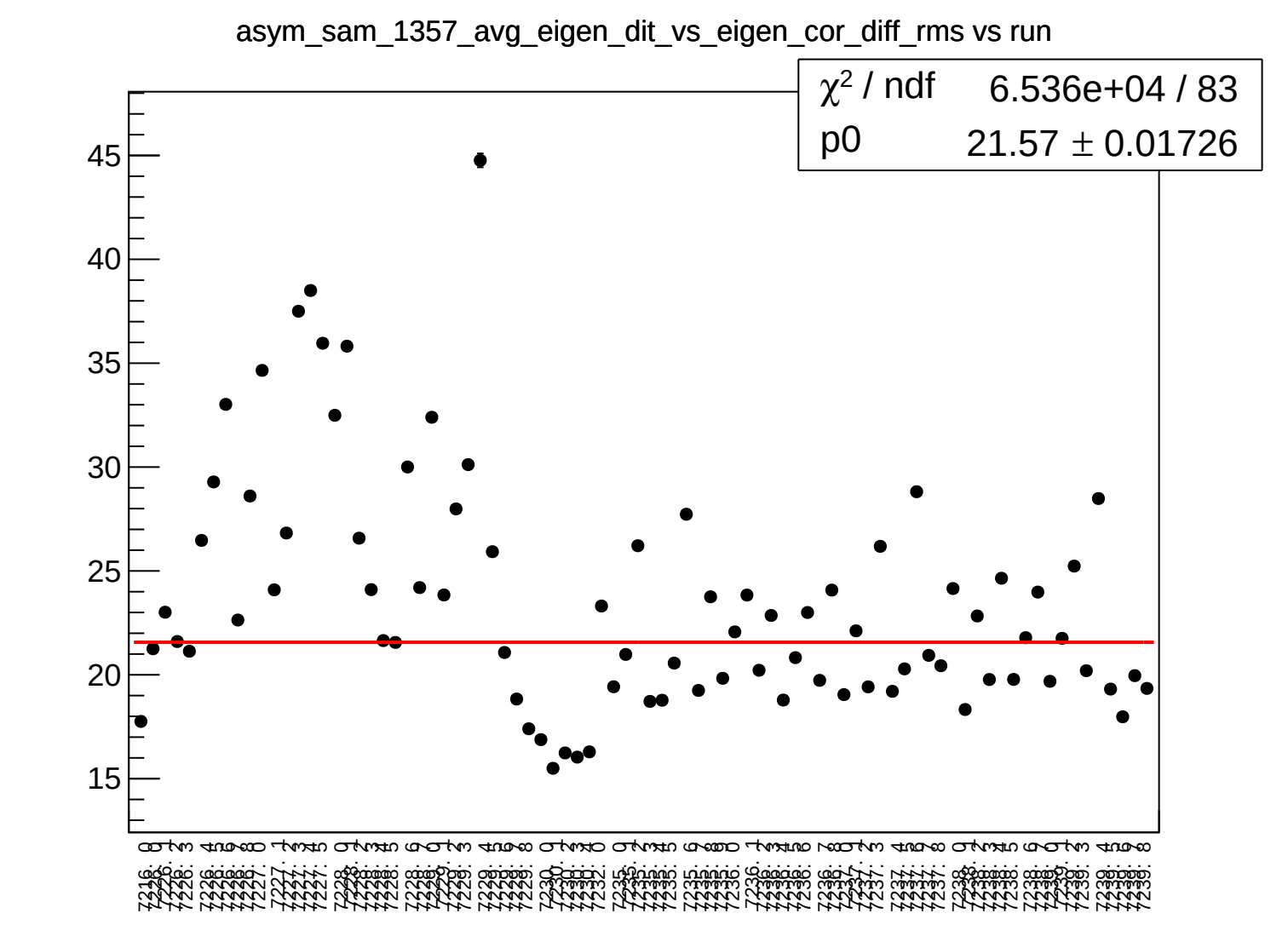

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 70.51 / 83
p0 1.071e−06 ± 1.485e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 84
Mean −343.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.003847
Std Dev 0.9162
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

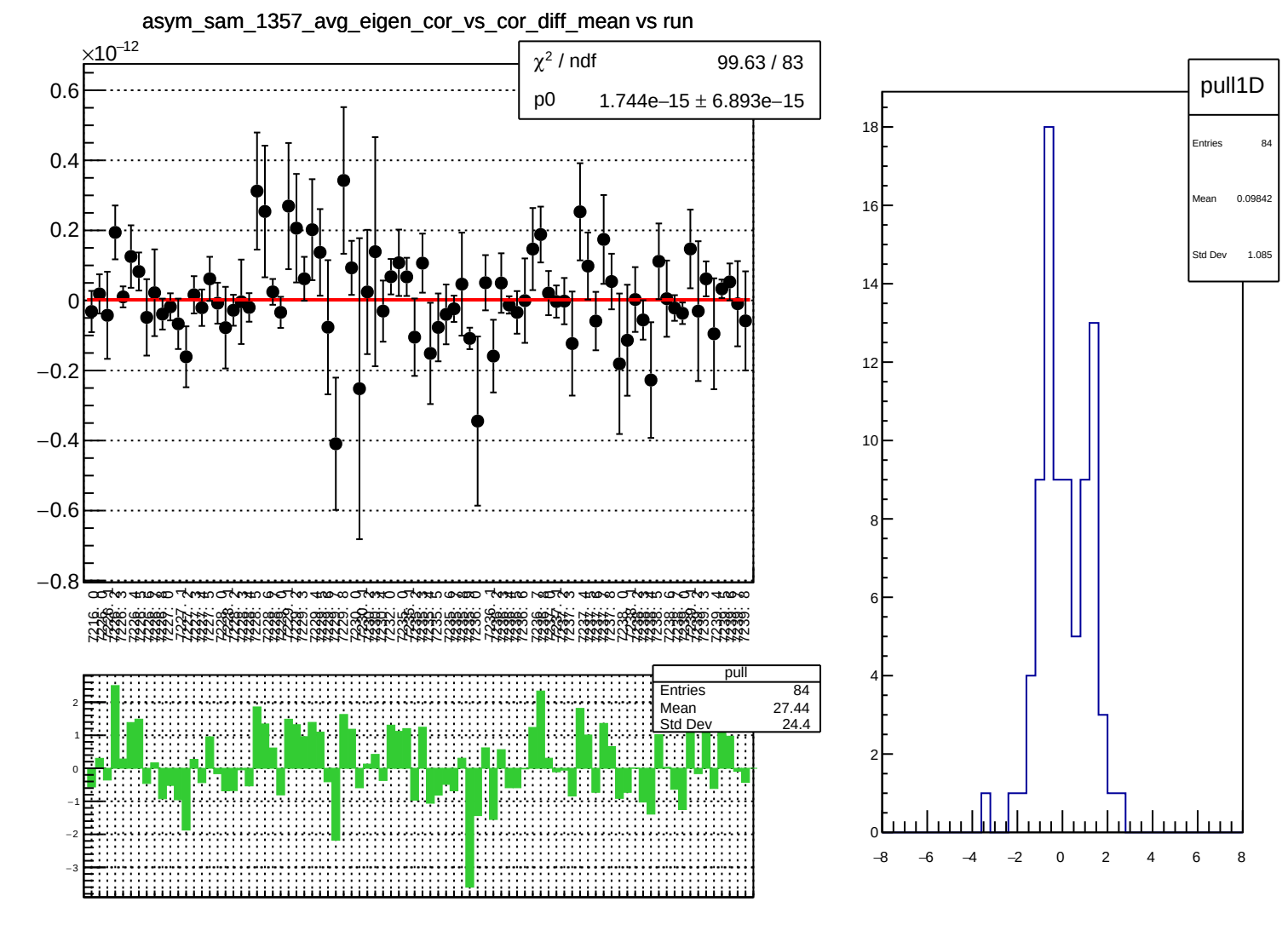

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.099e+04 / 83
p0 0.00133 ± 1.05e−06
0.0016
0.0014
0.0012
0.001
0.0008

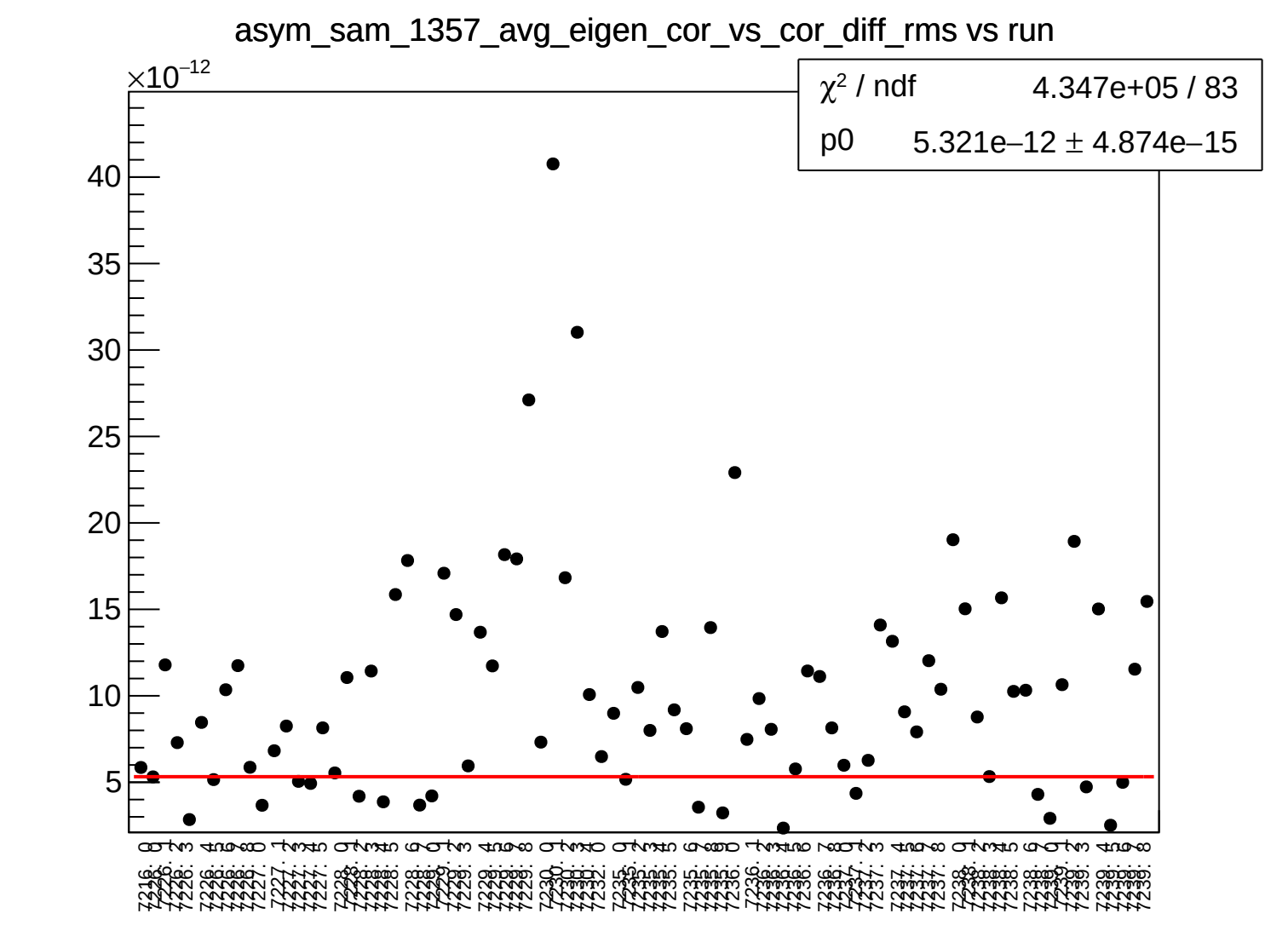

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.87 / 83
p0 −0.02602 ± 0.02441
pull
Entries 84
Mean 283.1
Std Dev 0
pull1D
Entries 84
Mean −0.01097
Std Dev 1.011

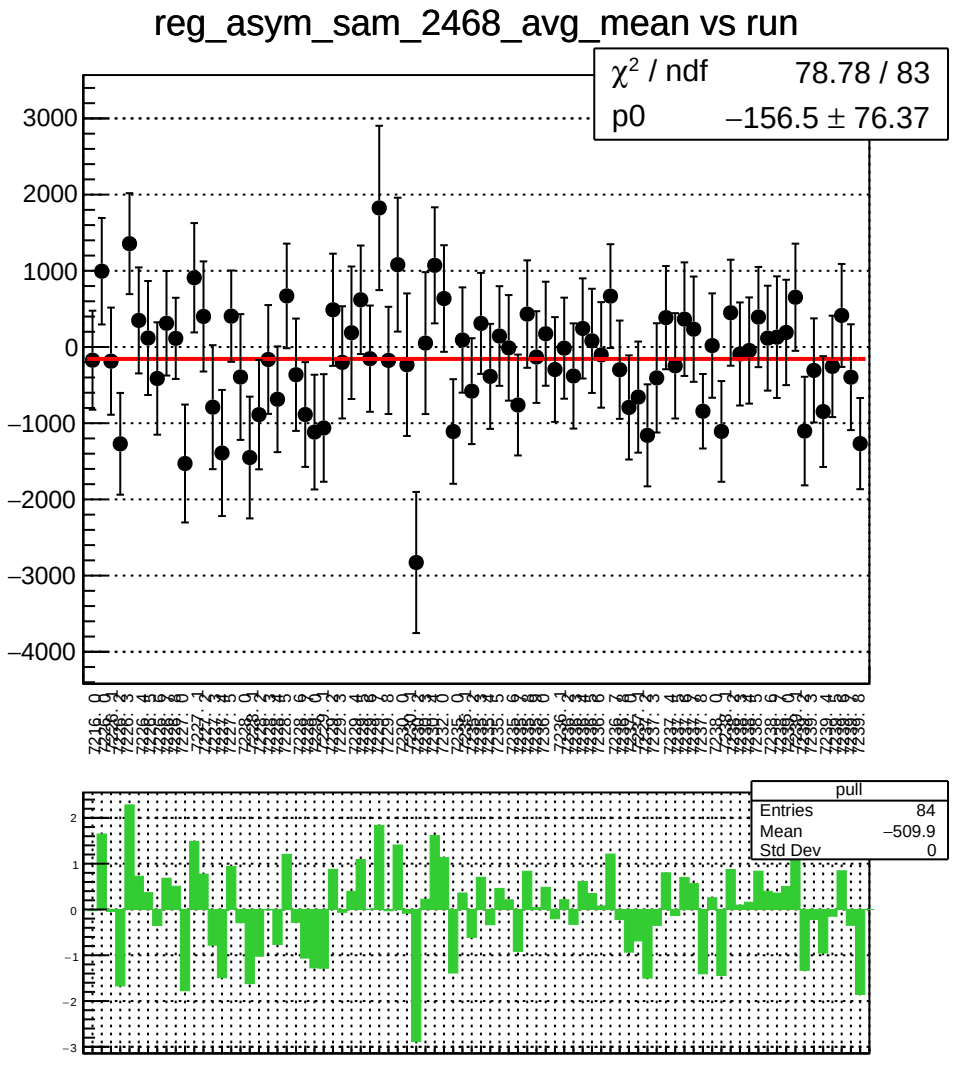

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.536e+04 / 83
p0 21.57 ± 0.01726
45
40
35
30
25
20
15

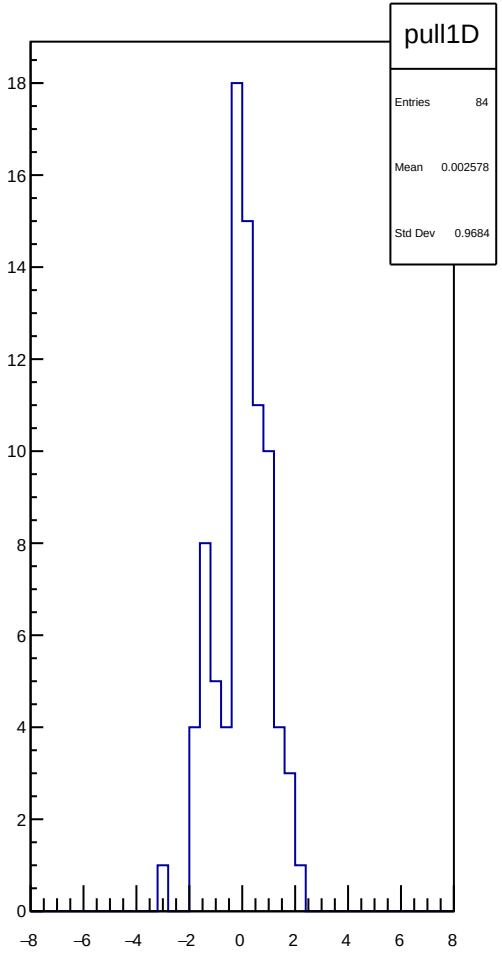

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.87 / 83
p0 −0.02602 ± 0.02441
pull
Entries 84
Mean 283.1
Std Dev 0
pull1D
Entries 84
Mean −0.01097
Std Dev 1.011

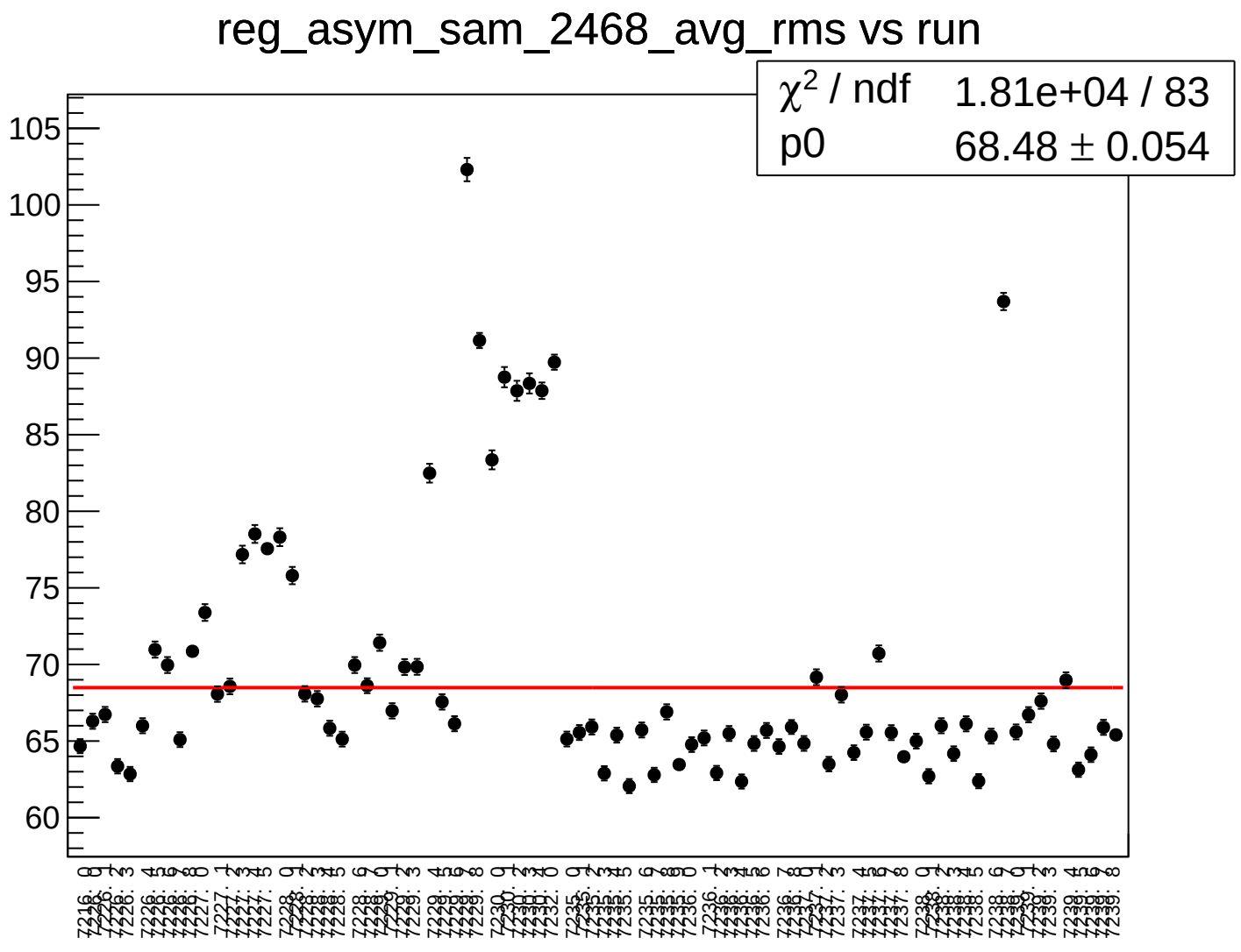

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.536e+04 / 83
p0 21.57 ± 0.01726
45
40
35
30
25
20
15

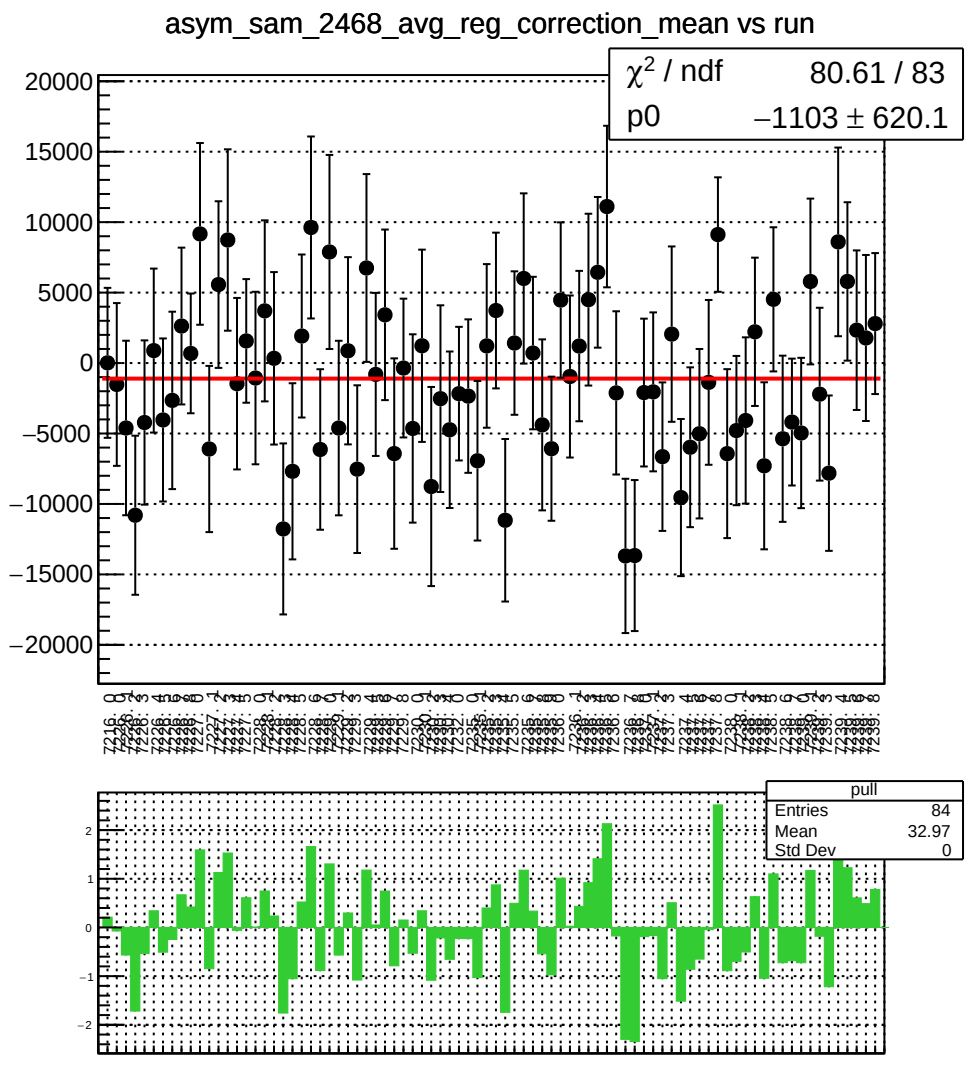

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.63 / 83
p0 1.744e−15 ± 6.893e−15
pull
Entries 84
Mean 27.44
Std Dev 24.4
pull1D
Entries 84
Mean 0.09842
Std Dev 1.085

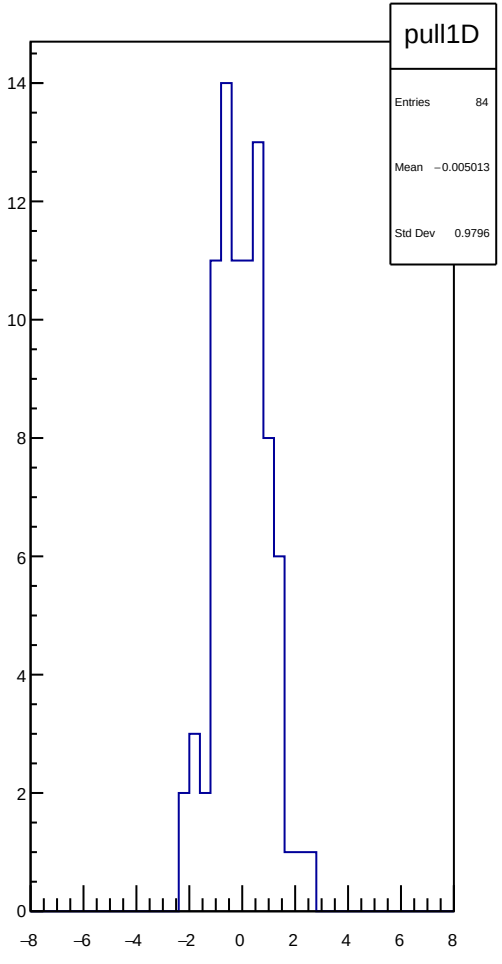

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.347e+05 / 83
p0 5.321e−12 ± 4.874e−15
40
35
30
25
20
15
10
5

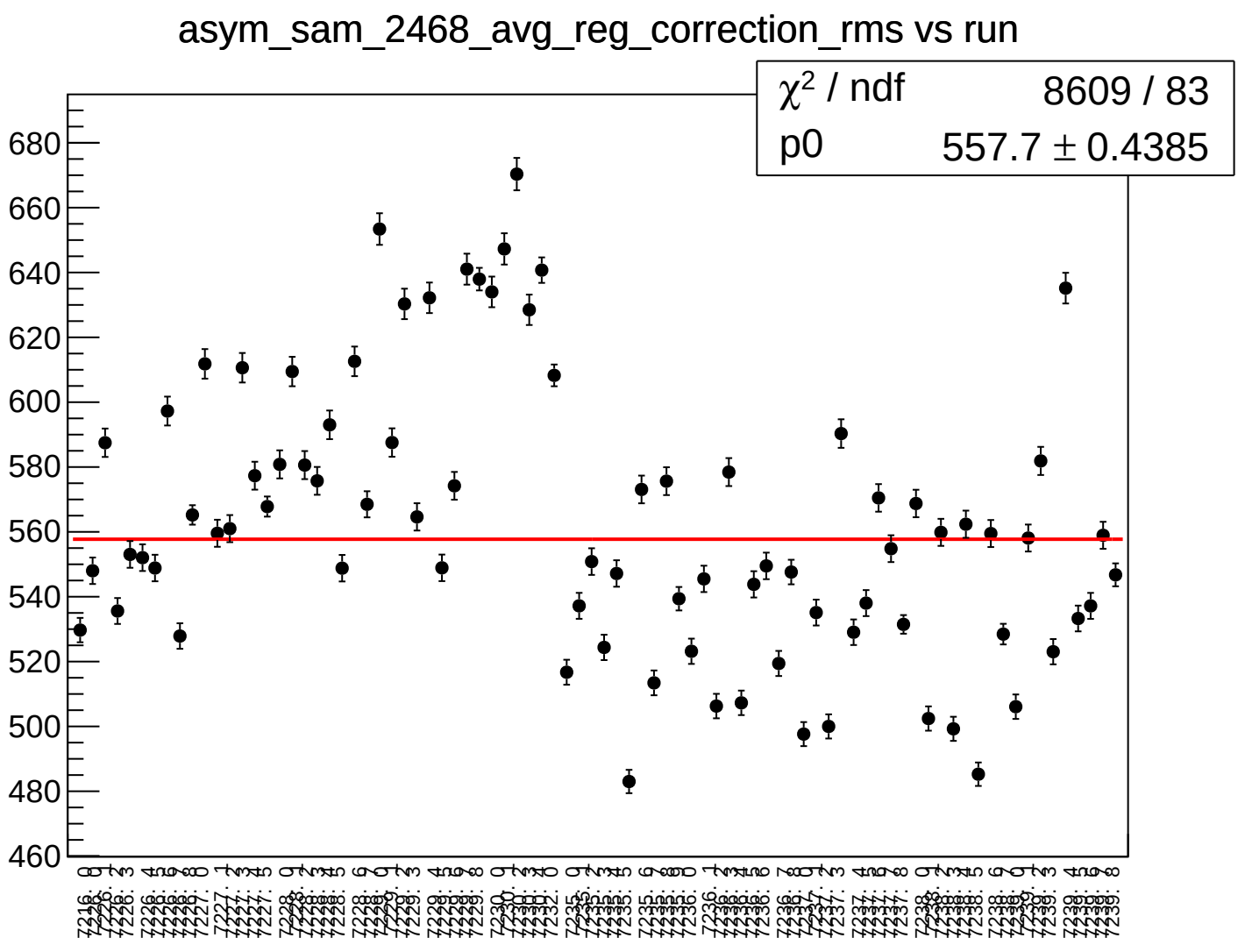

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 78.78 / 83
p0 −156.5 ± 76.37
pull
Entries 84
Mean −509.9
Std Dev 0

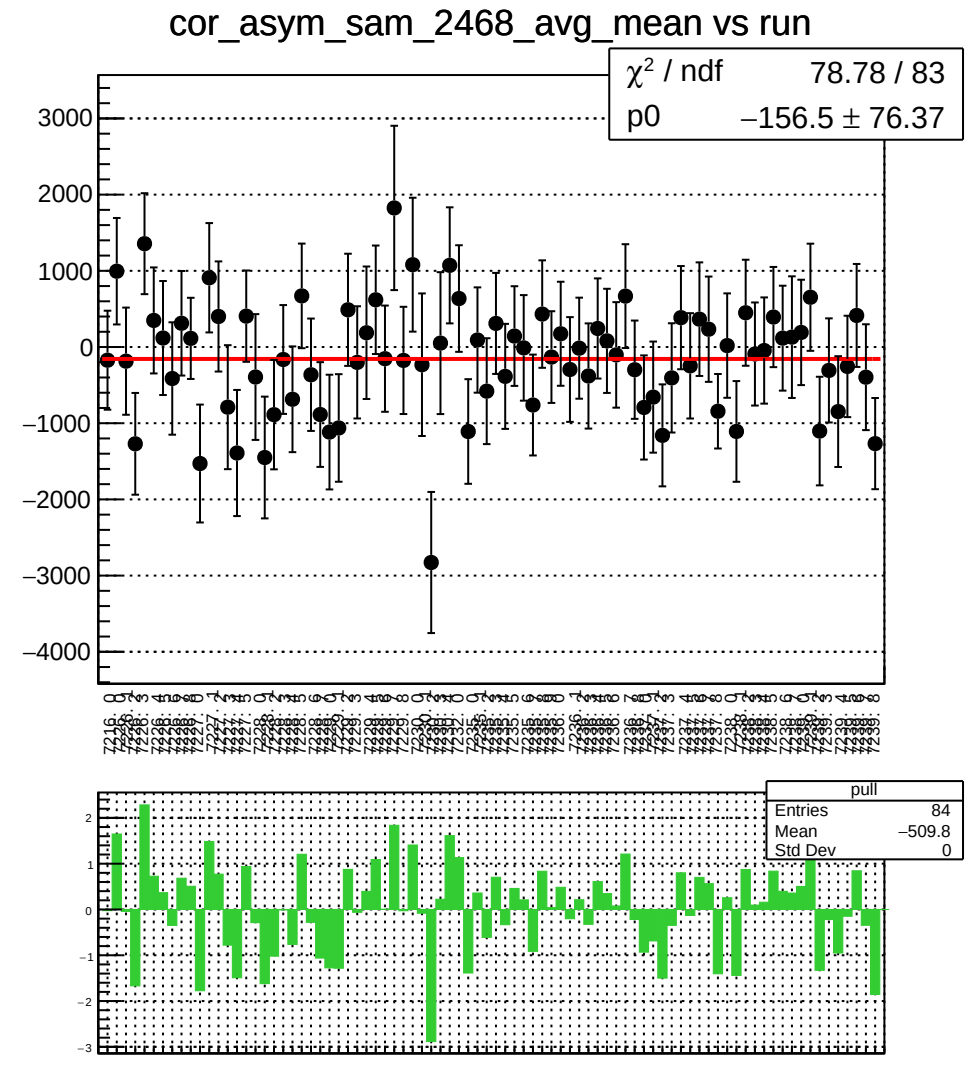

pull1D
Entries 84
Mean 0.002578
Std Dev 0.9684

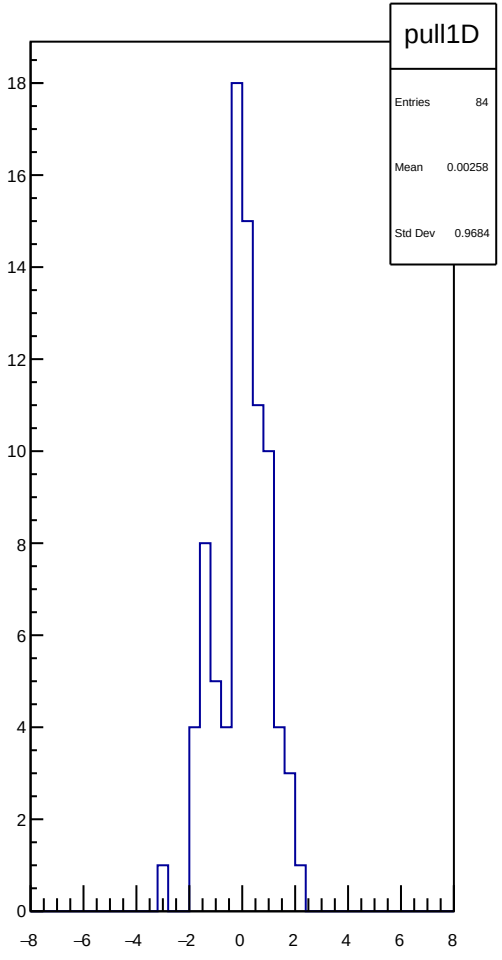

reg_asym_sam_2468_avg_rms vs run
χ^2 / ndf 1.81e+04 / 83
p0 68.48 ± 0.054
105
100
95
90
85
80
75
70
65
60

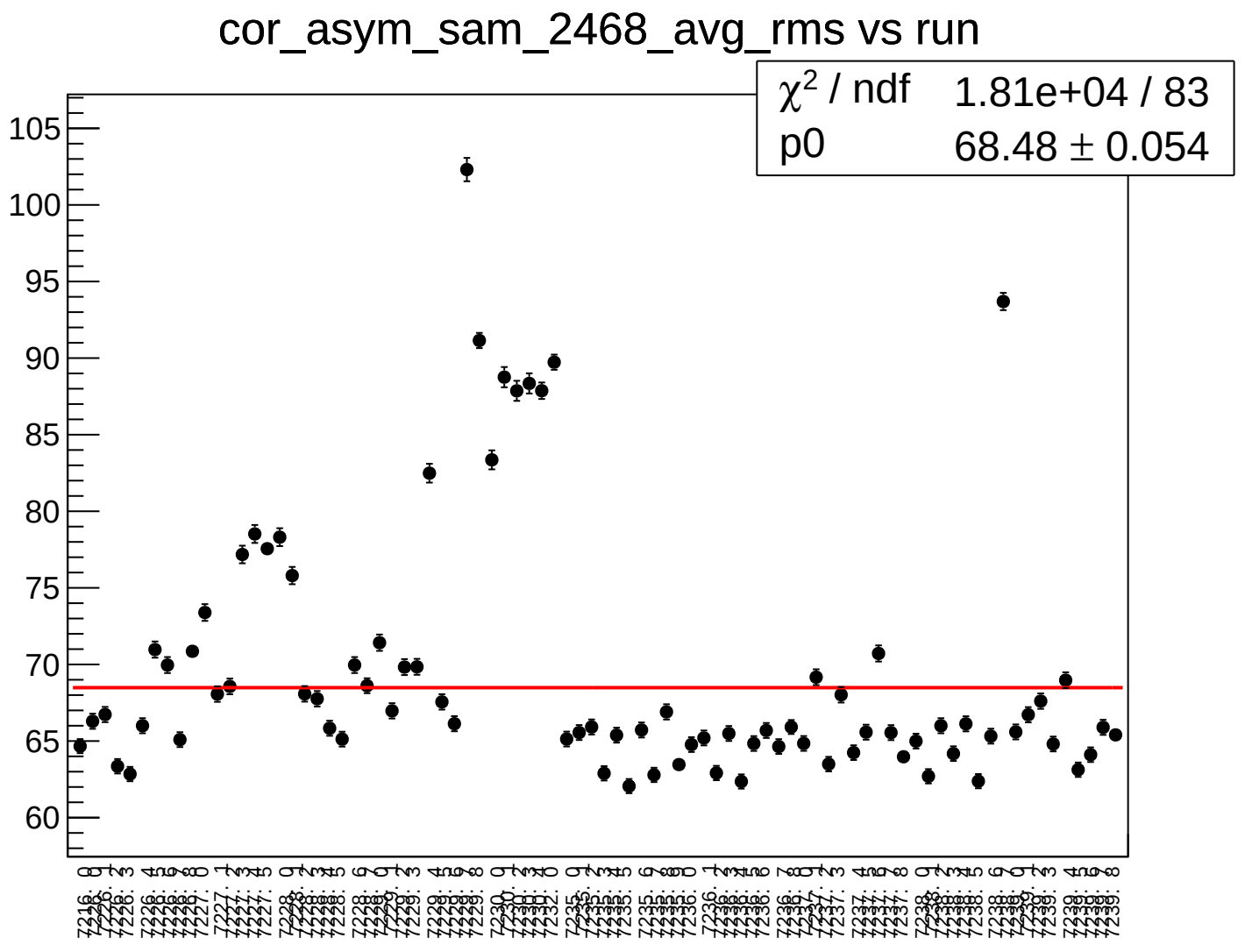

asym_sam_2468_avg_reg_correction_mean vs run
χ² / ndf 80.61 / 83
p0 −1103 ± 620.1
pull
Entries 84
Mean 32.97
Std Dev 0

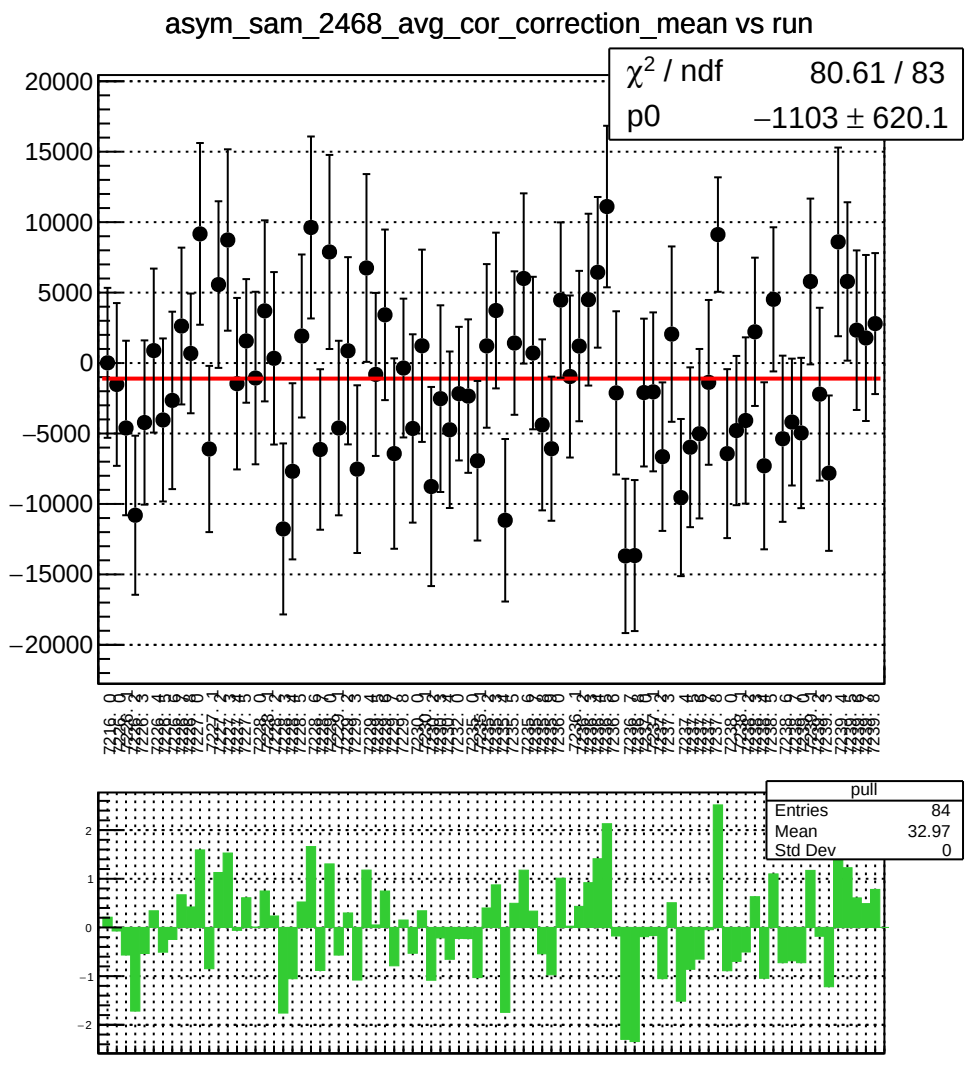

pull1D
Entries 84
Mean −0.005013
Std Dev 0.9796

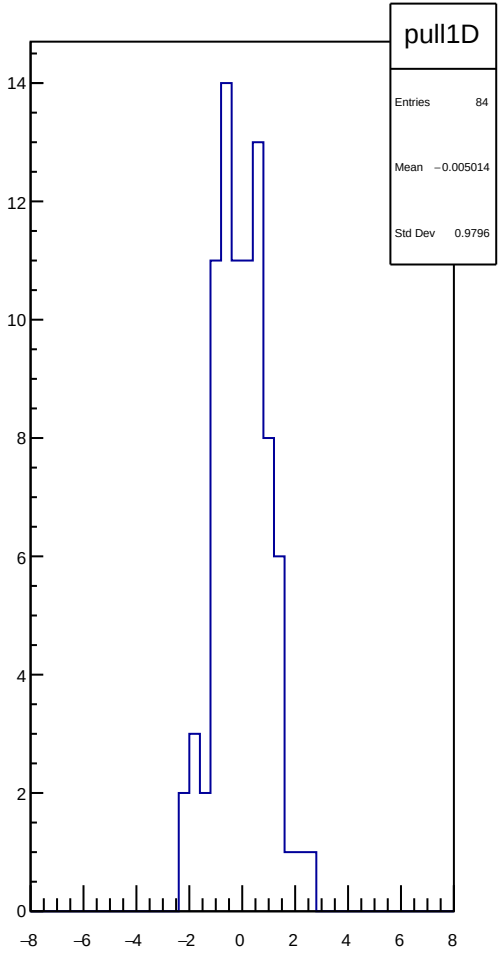

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 8609 / 83
p0 557.7 ± 0.4385
680
660
640
620
600
580
560
540
520
500
480
460

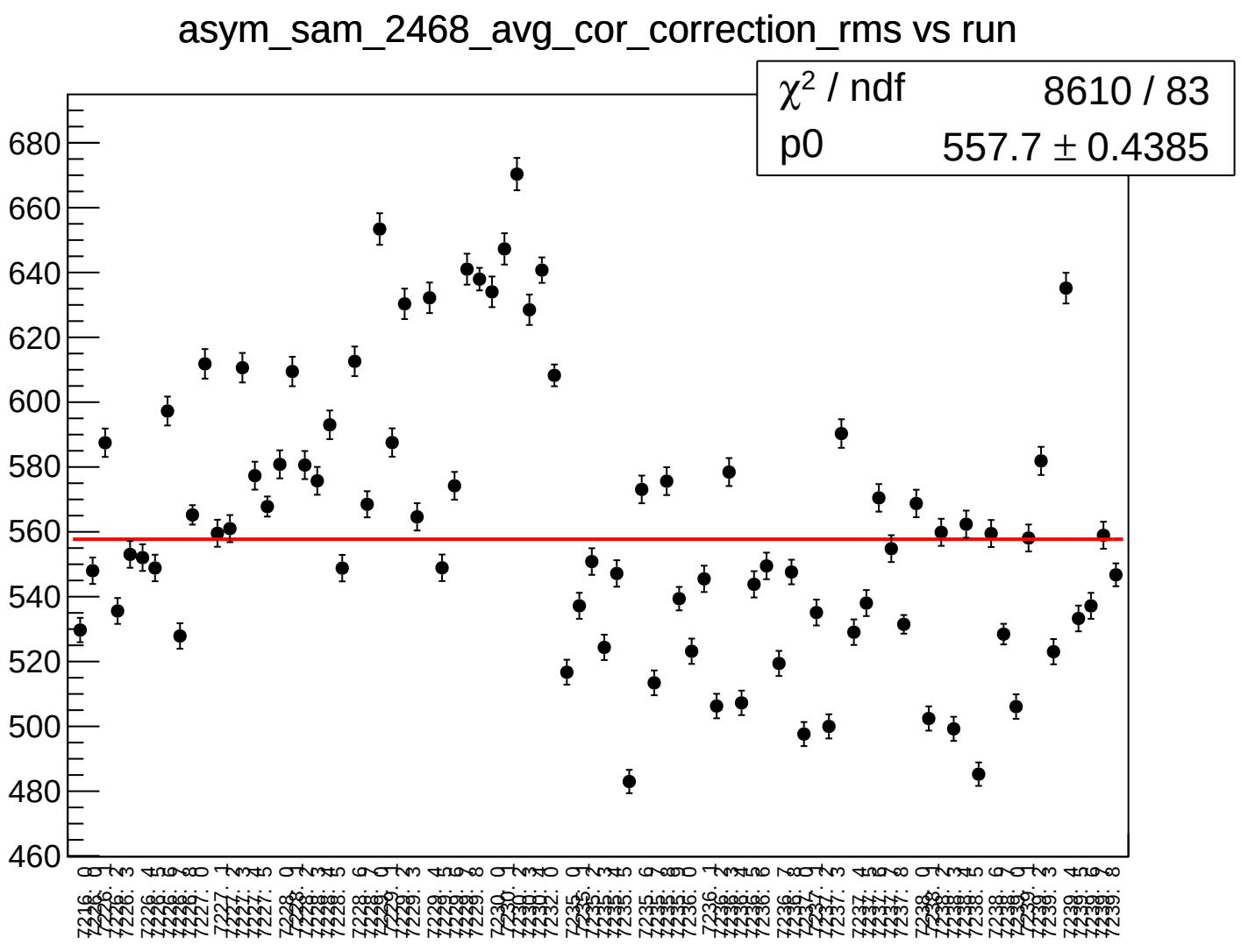

cor_asym_sam_2468_avg_mean vs run
χ² / ndf 78.78 / 83
p0 −156.5 ± 76.37
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 84
Mean −509.8
Std Dev 0
2
1
0
−1
−2
−3

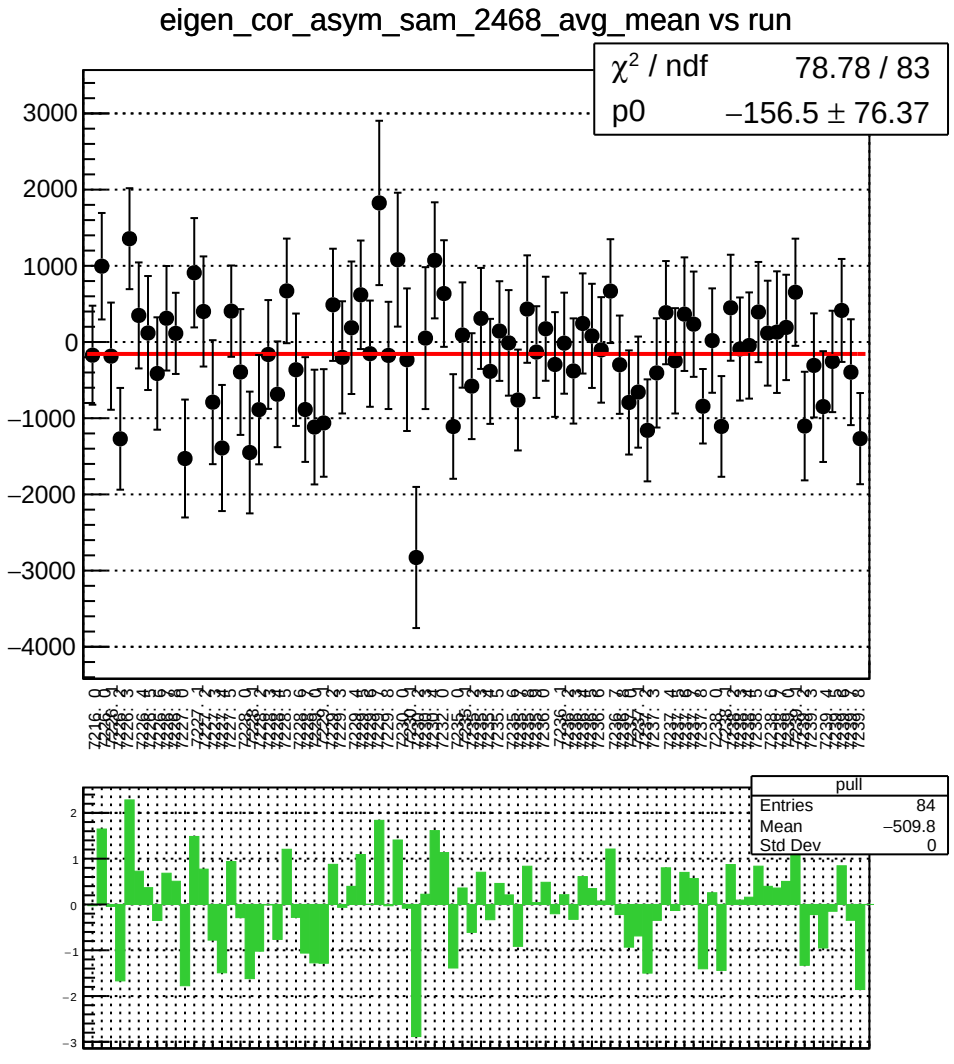

pull1D
Entries 84
Mean 0.00258
Std Dev 0.9684
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

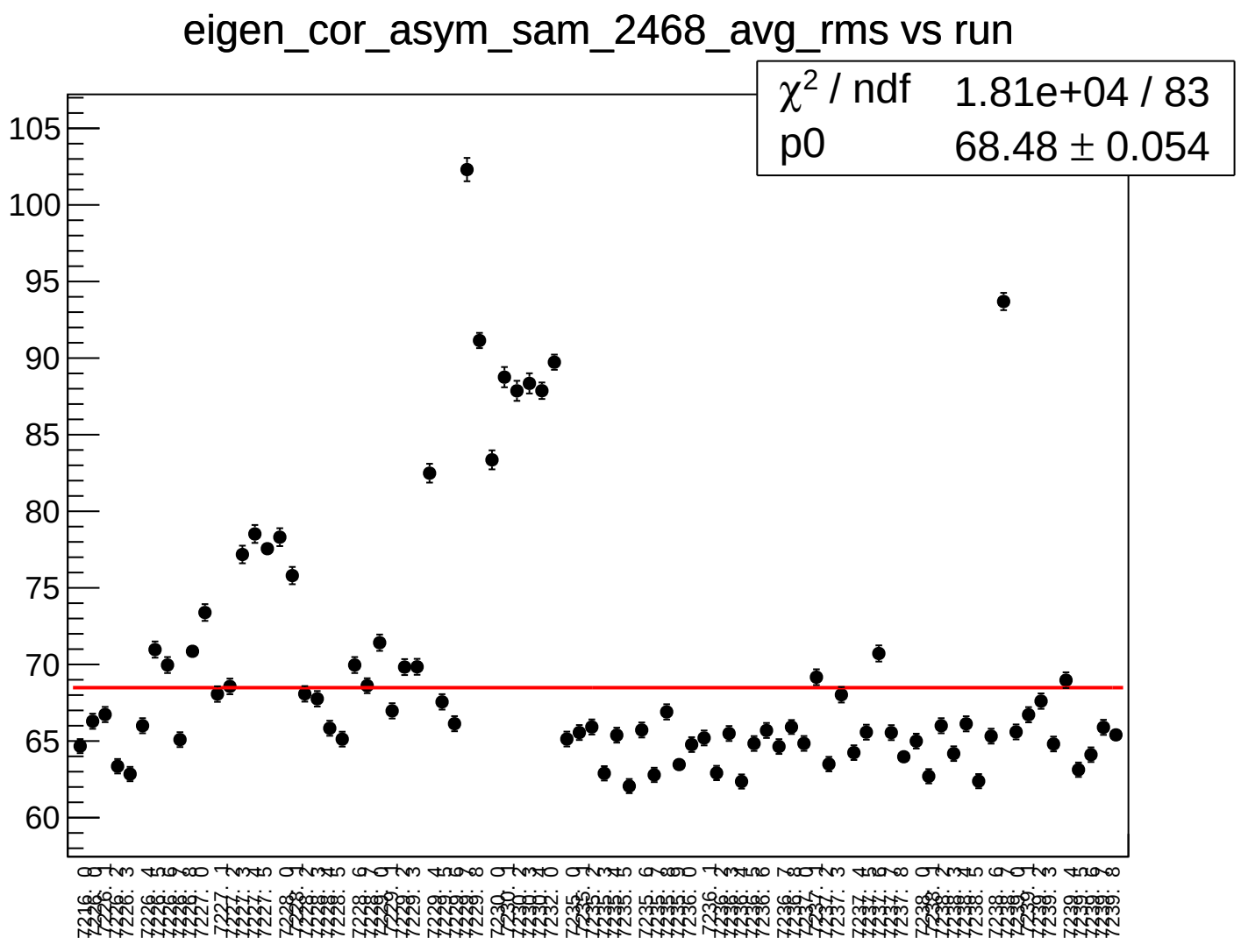

cor_asym_sam_2468_avg_rms vs run
χ^2 / ndf 1.81e+04 / 83
p0 68.48 ± 0.054
105
100
95
90
85
80
75
70
65
60

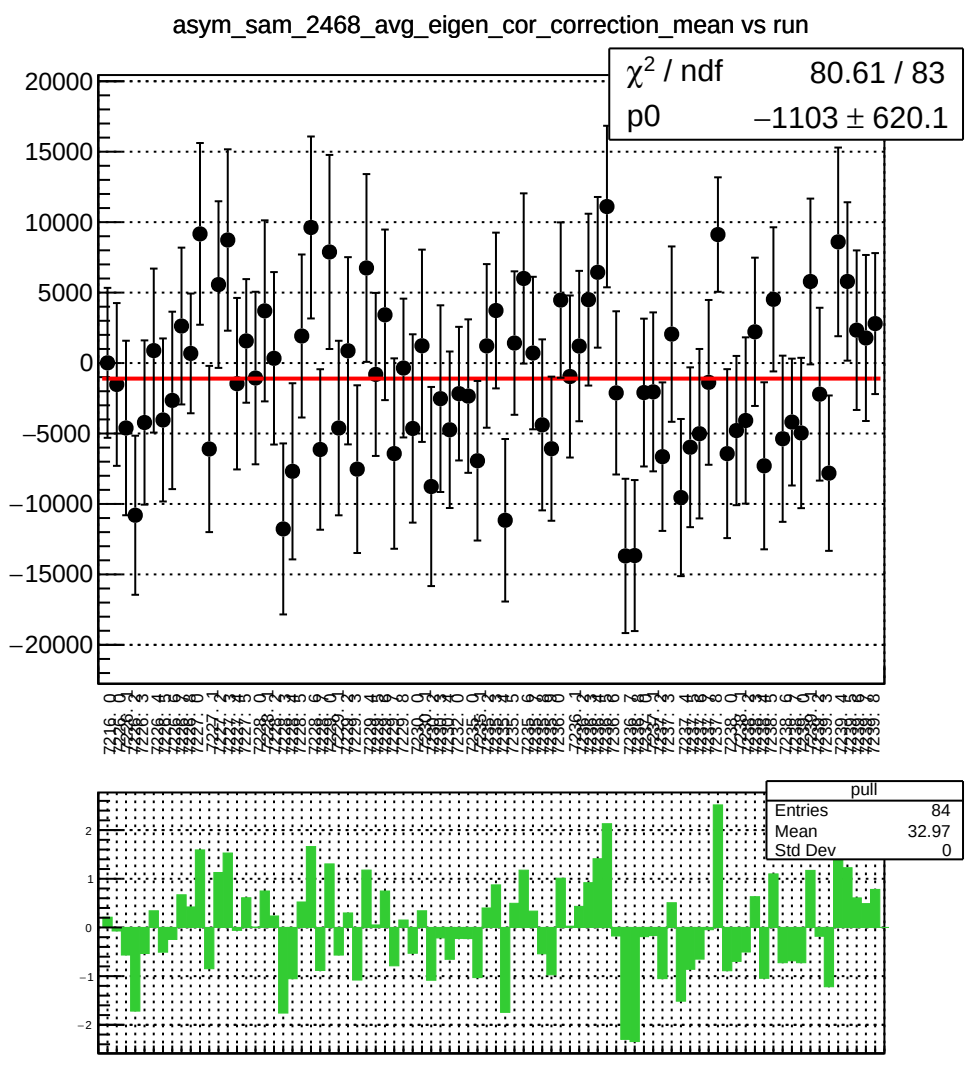

asym_sam_2468_avg_cor_correction_mean vs run
χ² / ndf 80.61 / 83
p0 −1103 ± 620.1
pull
Entries 84
Mean 32.97
Std Dev 0

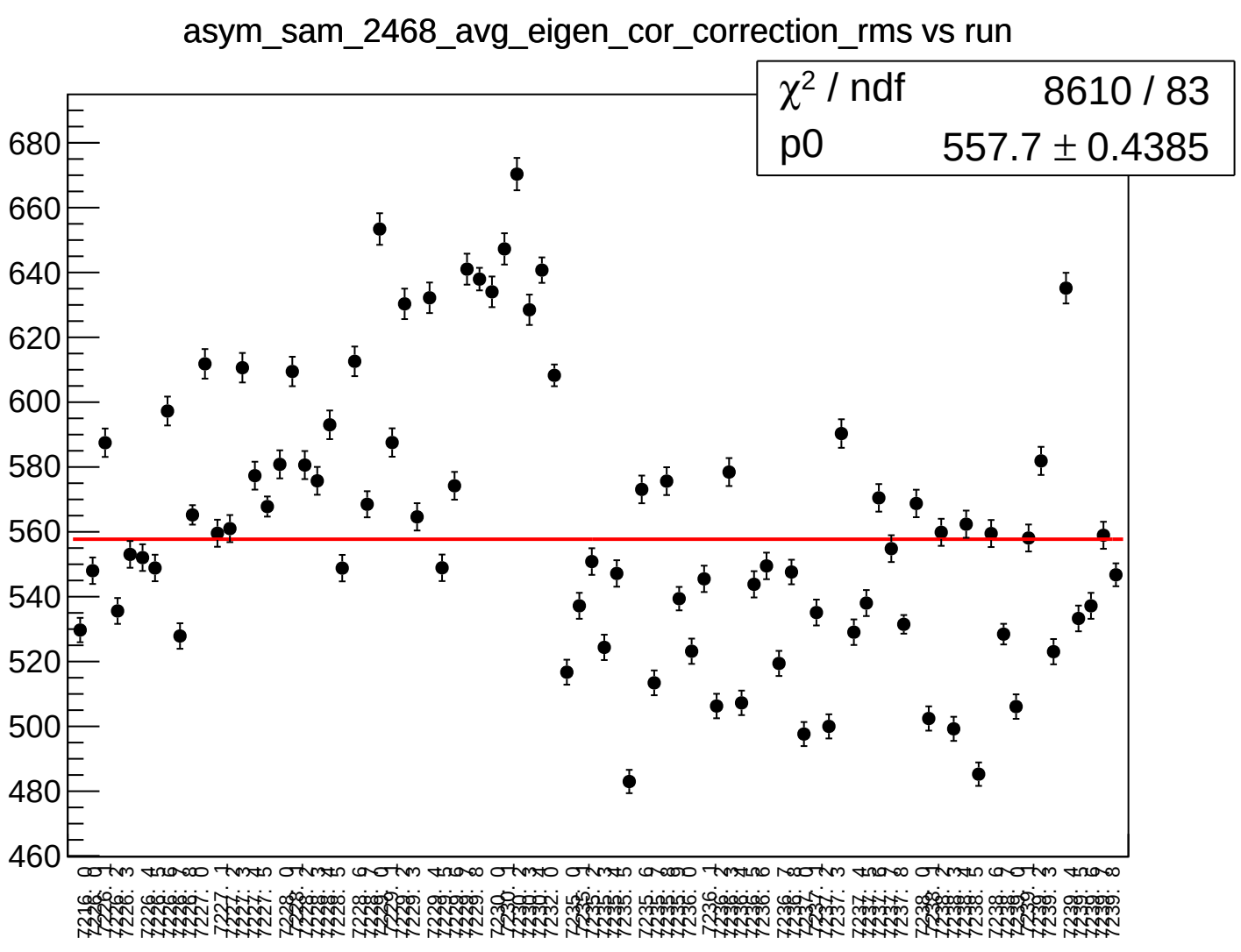

pull1D
Entries 84
Mean −0.005014
Std Dev 0.9796

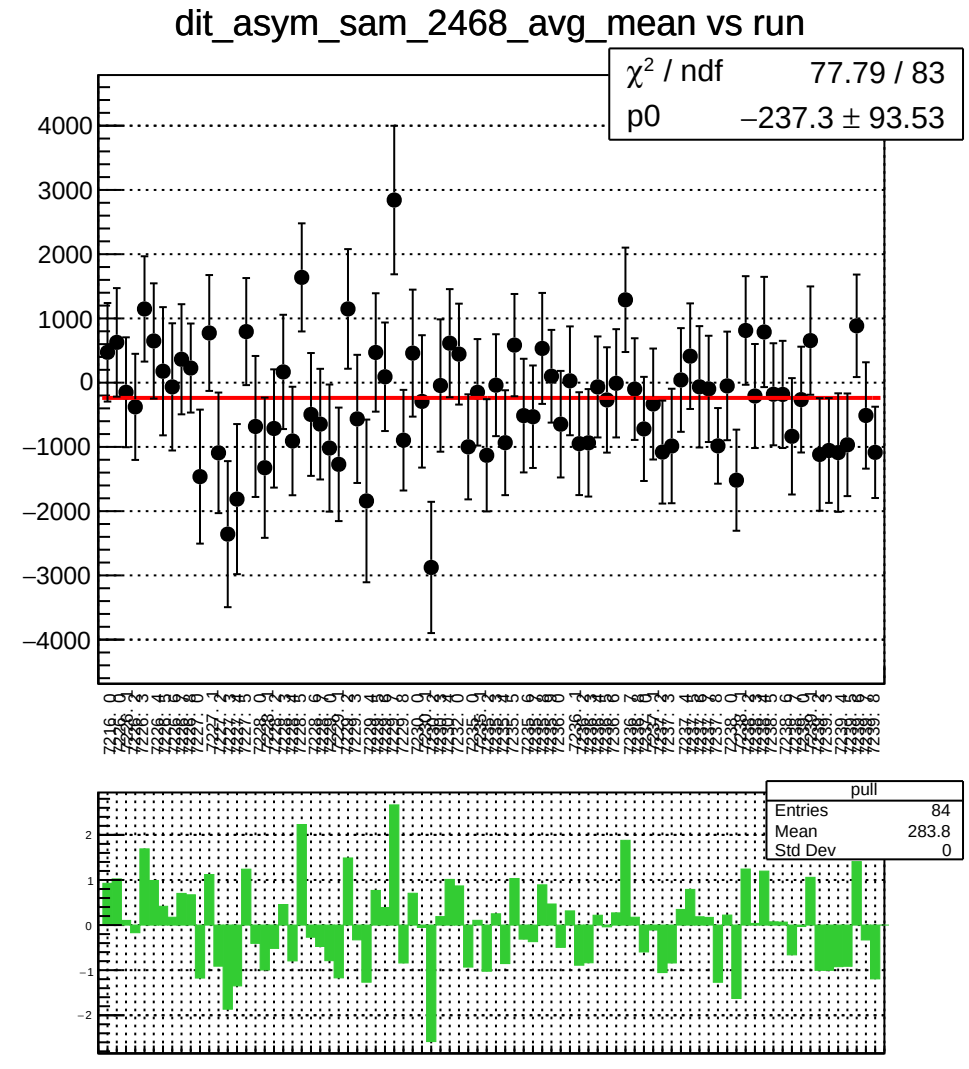

asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 8610 / 83
p0 557.7 ± 0.4385
680
660
640
620
600
580
560
540
520
500
480
460

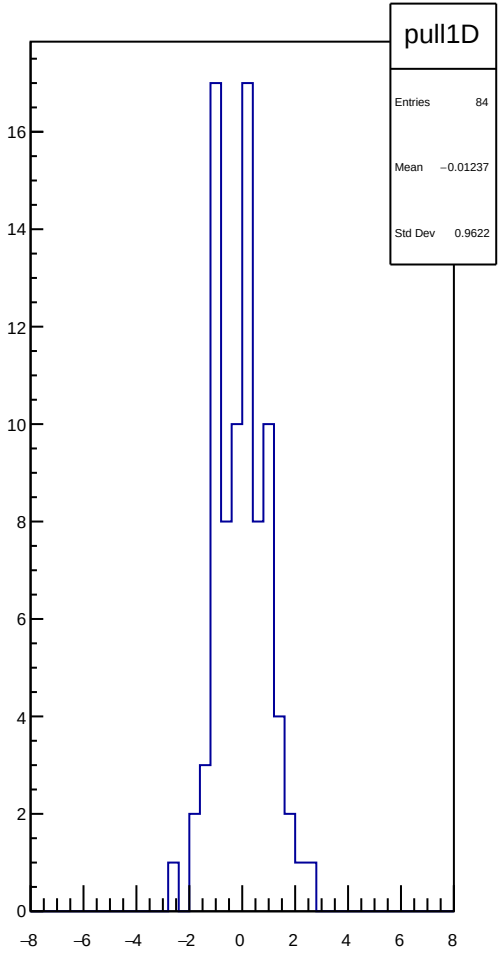

eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 78.78 / 83
p0 −156.5 ± 76.37
pull
Entries 84
Mean −509.8
Std Dev 0
pull1D
Entries 84
Mean 0.00258
Std Dev 0.9684

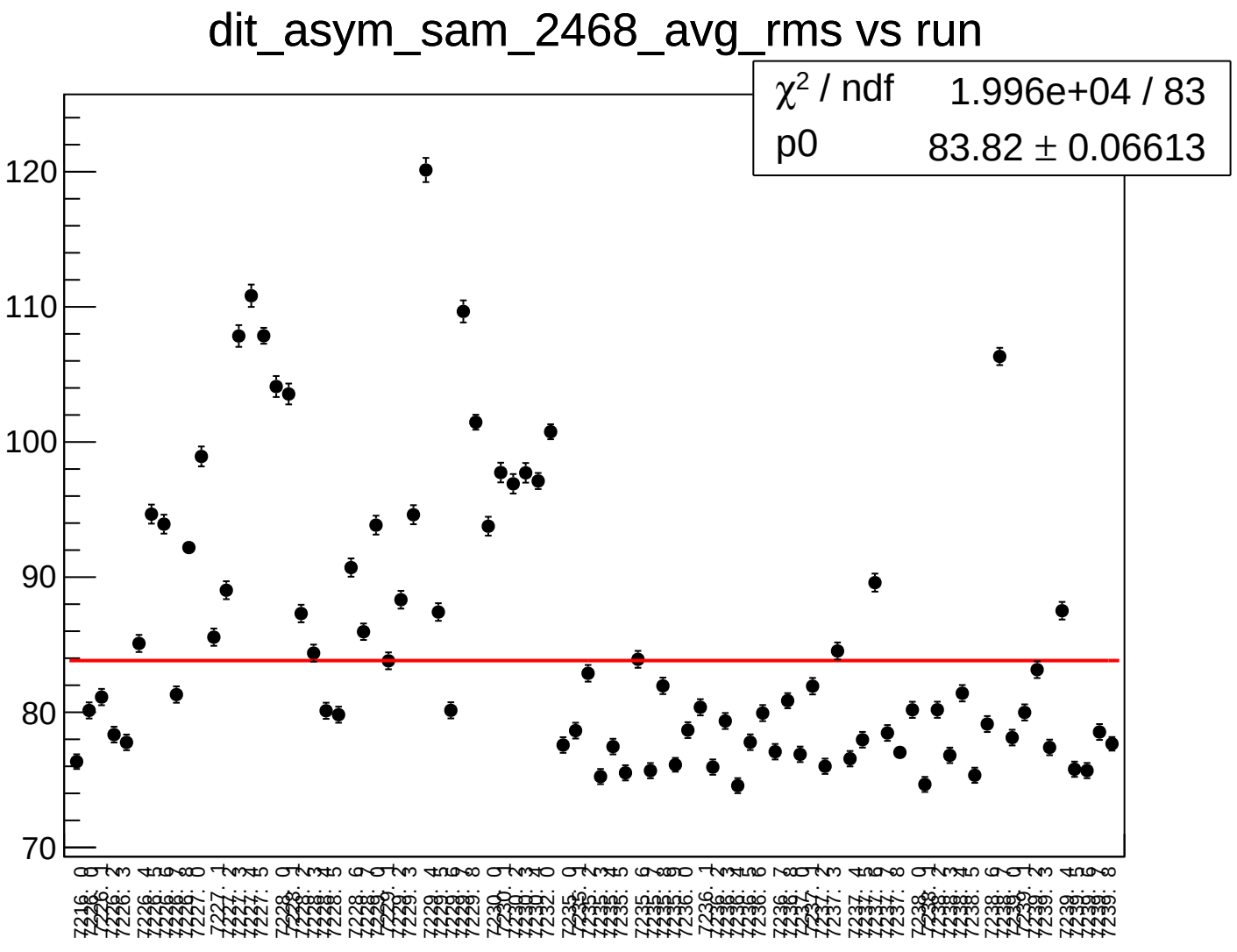

eigen_cor_asym_sam_2468_avg_rms vs run
χ^2 / ndf 1.81e+04 / 83
p0 68.48 ± 0.054
105
100
95
90
85
80
75
70
65
60

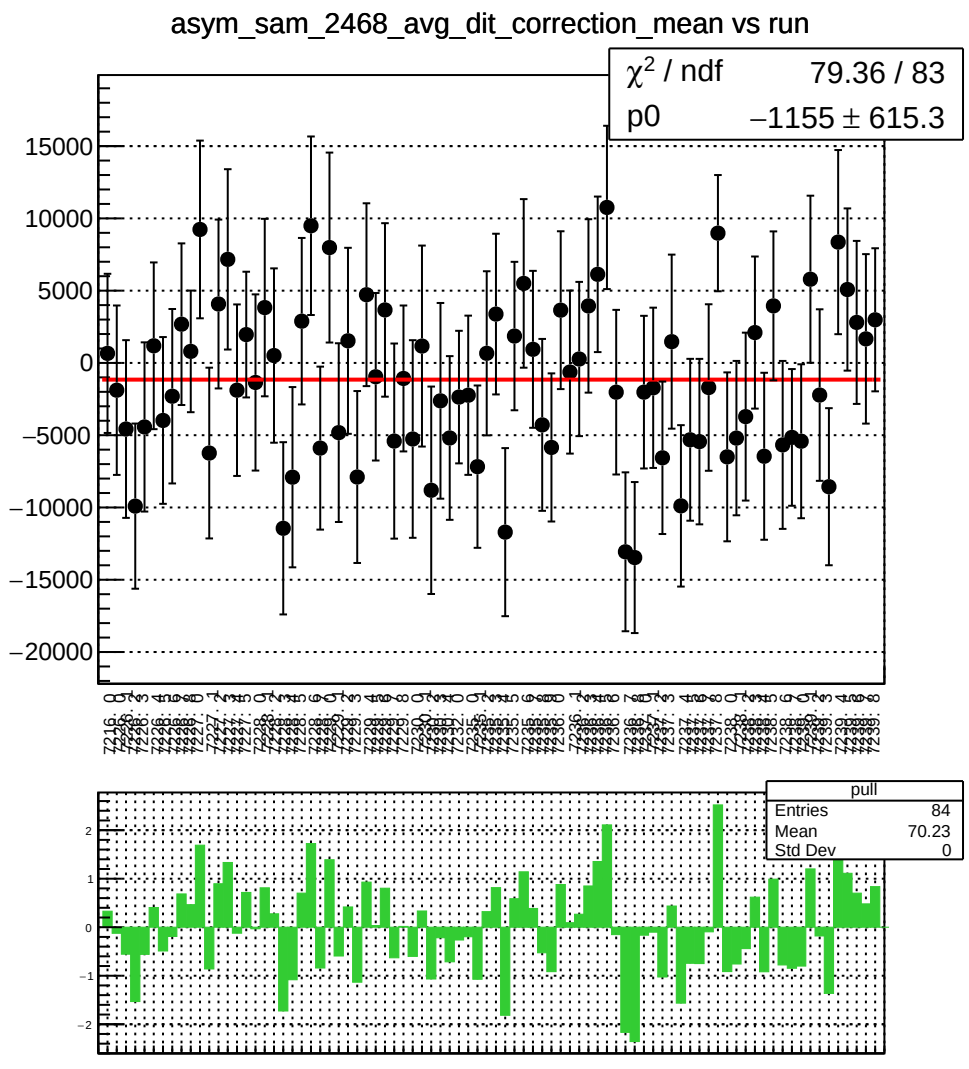

asym_sam_2468_avg_eigen_cor_correction_mean vs run
χ² / ndf 80.61 / 83
p0 −1103 ± 620.1
pull
Entries 84
Mean 32.97
Std Dev 0
pull1D
Entries 84
Mean −0.005014
Std Dev 0.9796

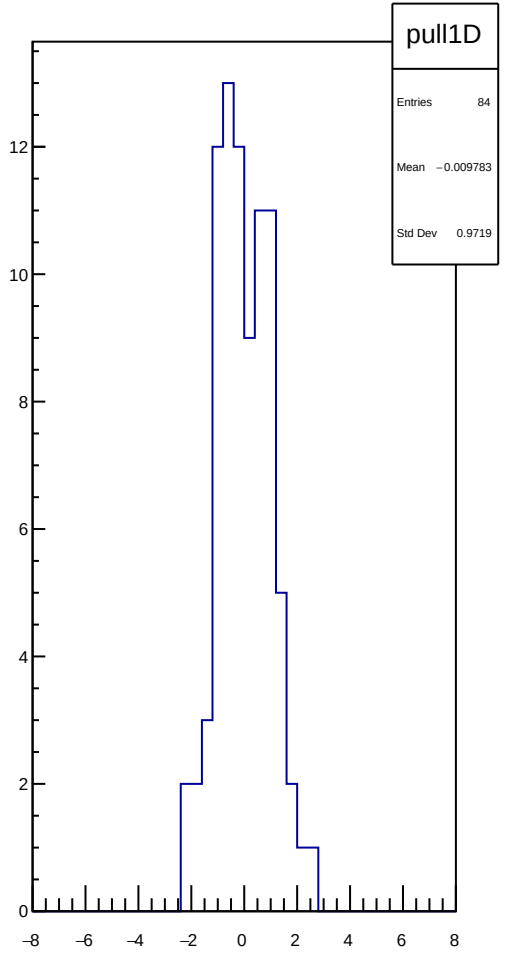

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 8610 / 83
p0 557.7 ± 0.4385
680
660
640
620
600
580
560
540
520
500
480
460

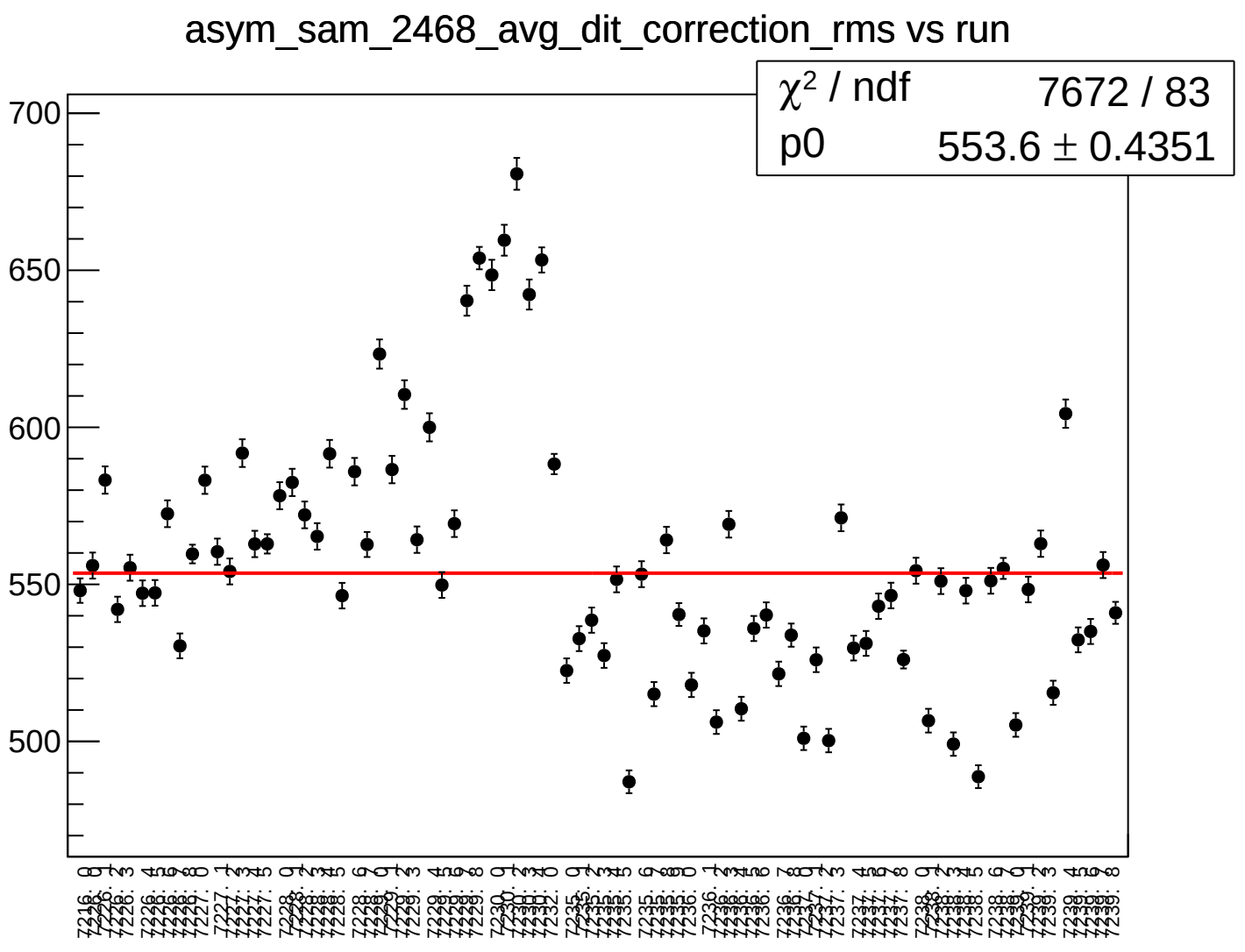

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 77.79 / 83
p0 −237.3 ± 93.53
pull
Entries 84
Mean 283.8
Std Dev 0

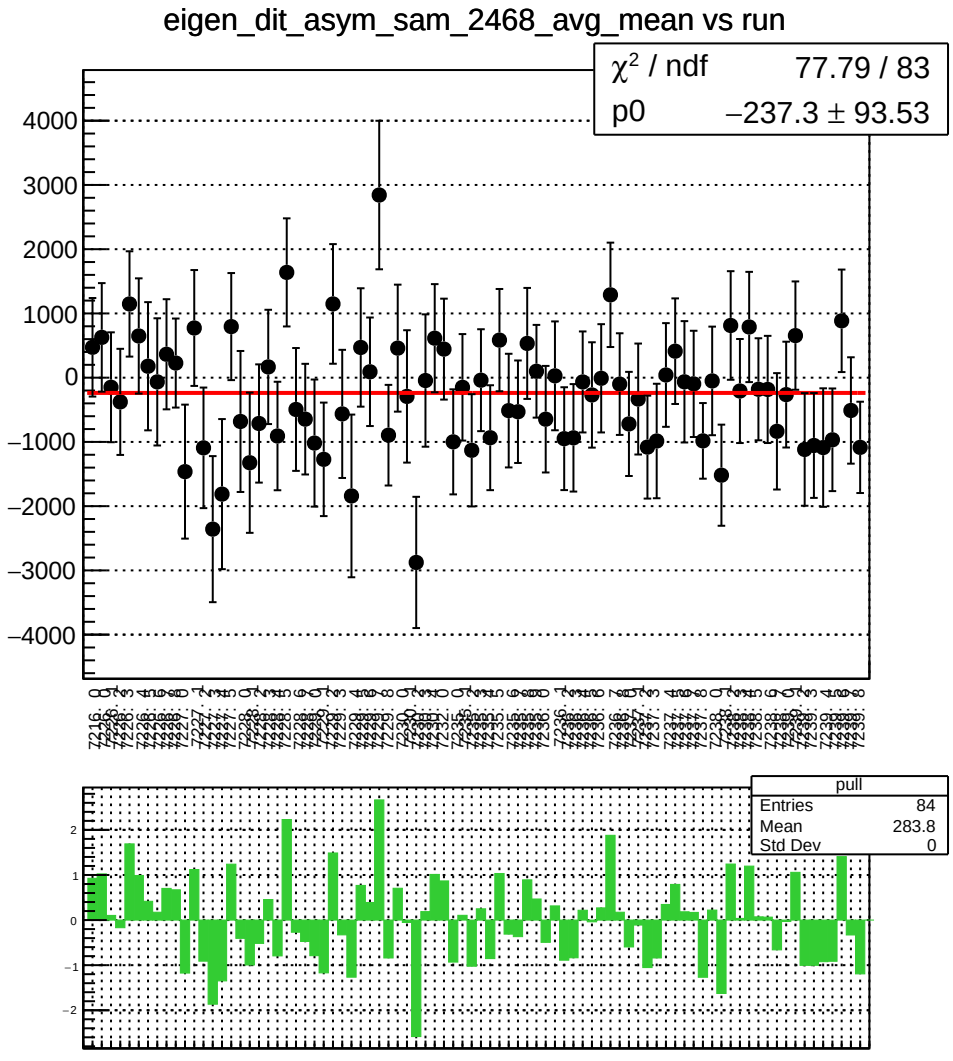

pull1D
Entries 84
Mean −0.01237
Std Dev 0.9622

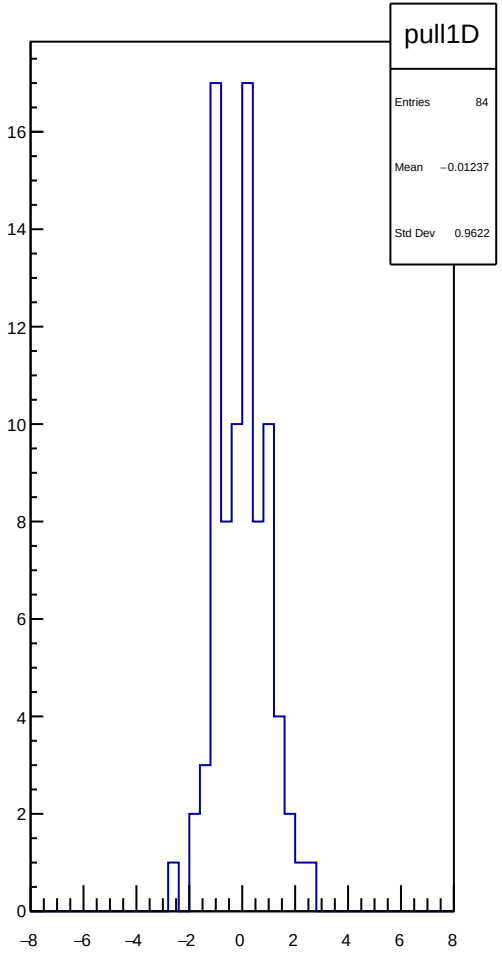

dit_asym_sam_2468_avg_rms vs run
χ^2 / ndf 1.996e+04 / 83
p0 83.82 ± 0.06613
120
110
100
90
80
70

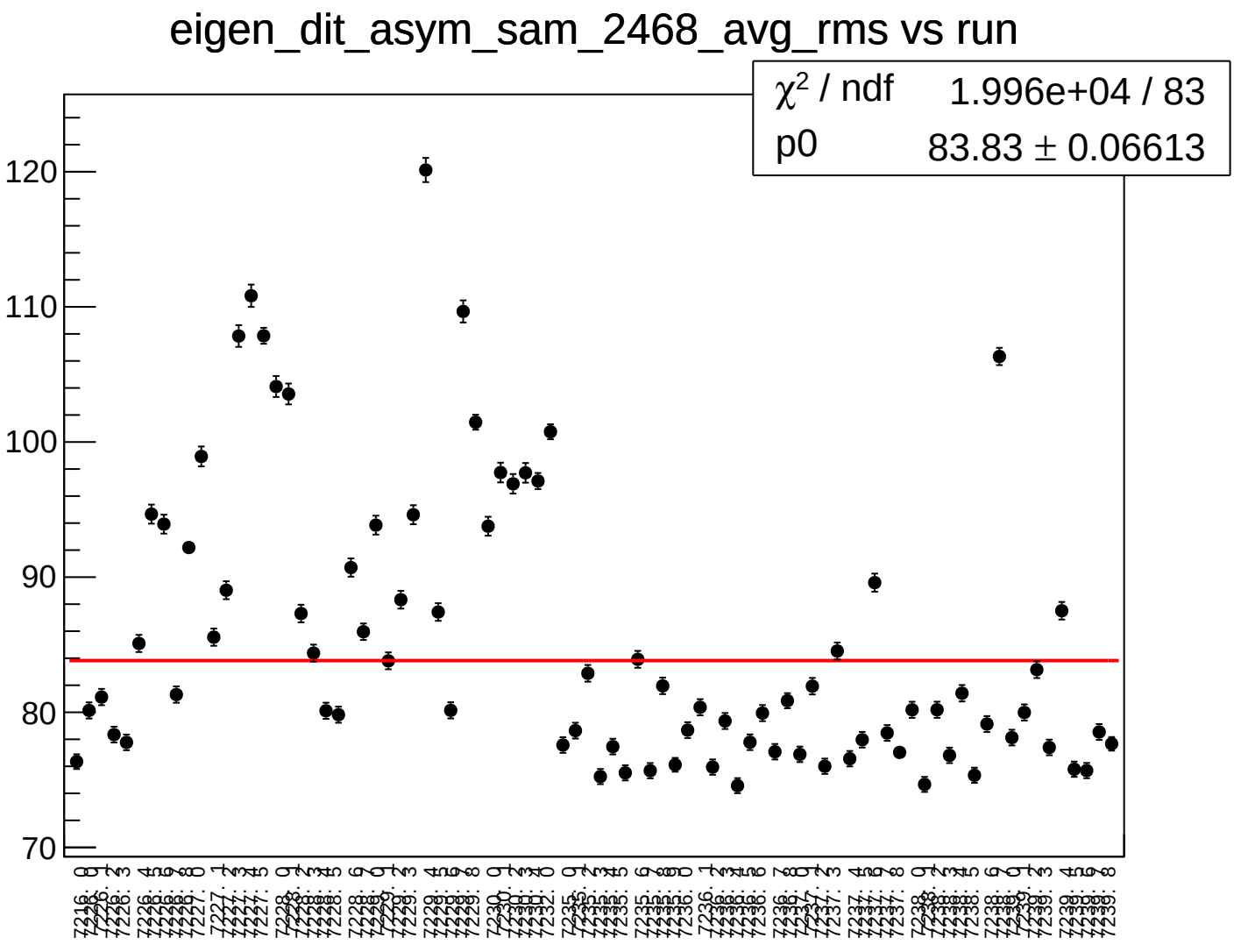

asym_sam_2468_avg_dit_correction_mean vs run
χ² / ndf 79.36 / 83
p0 −1155 ± 615.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 84
Mean 70.23
Std Dev 0
2
1
0
−1
−2

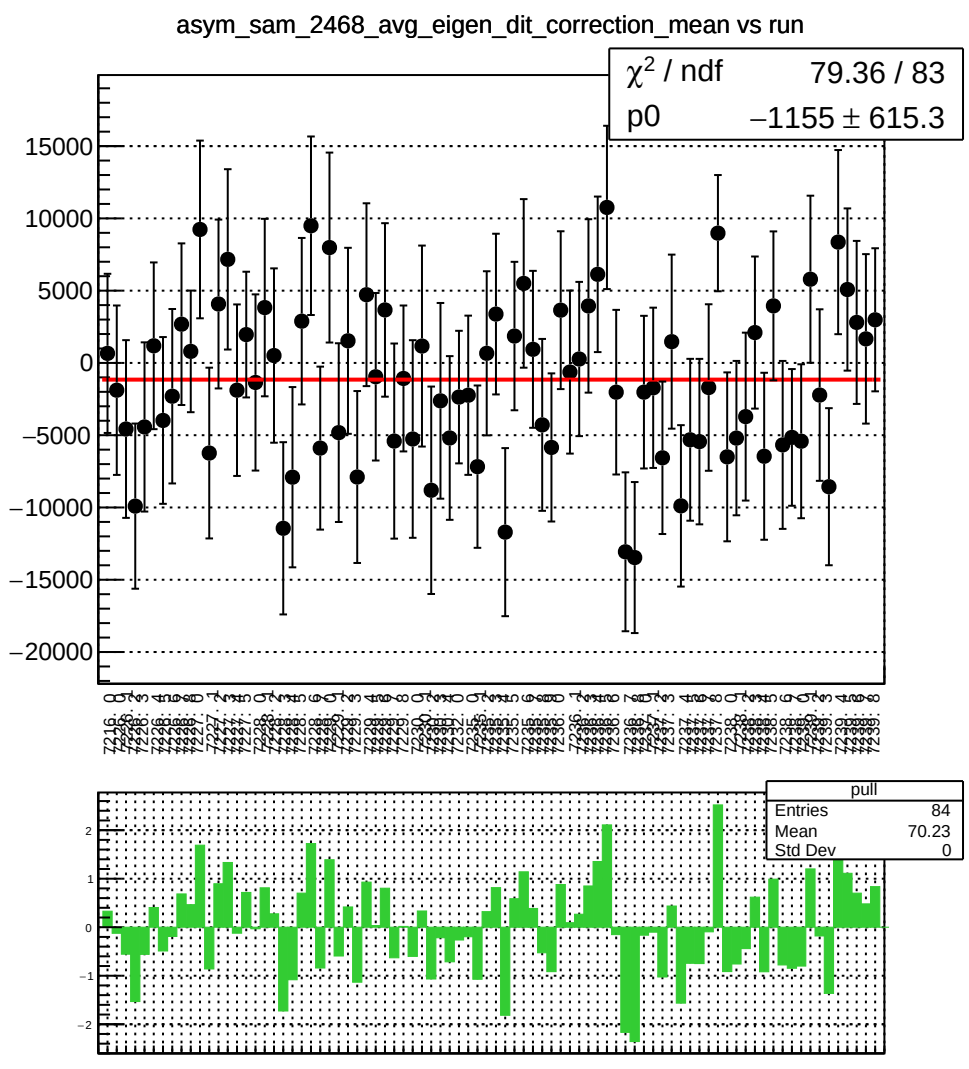

pull1D
Entries 84
Mean −0.009783
Std Dev 0.9719
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

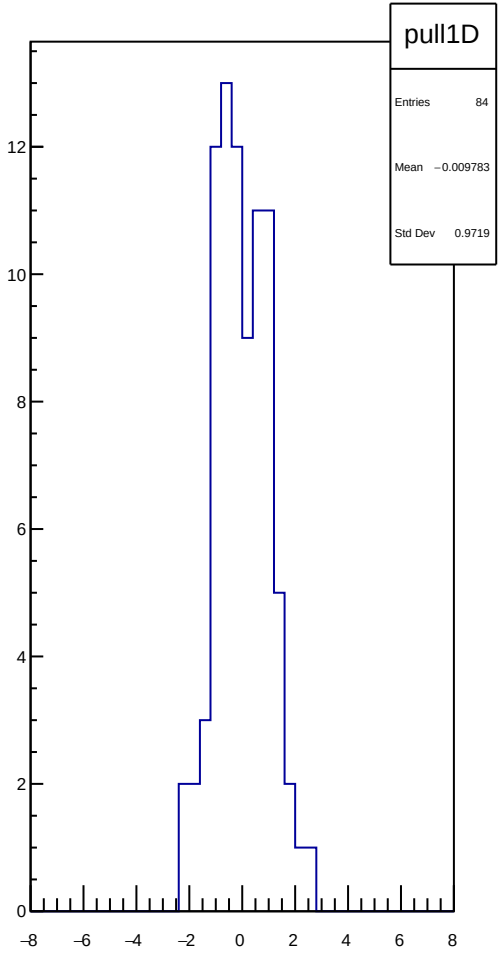

asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 7672 / 83
p0 553.6 ± 0.4351
700
650
600
550
500

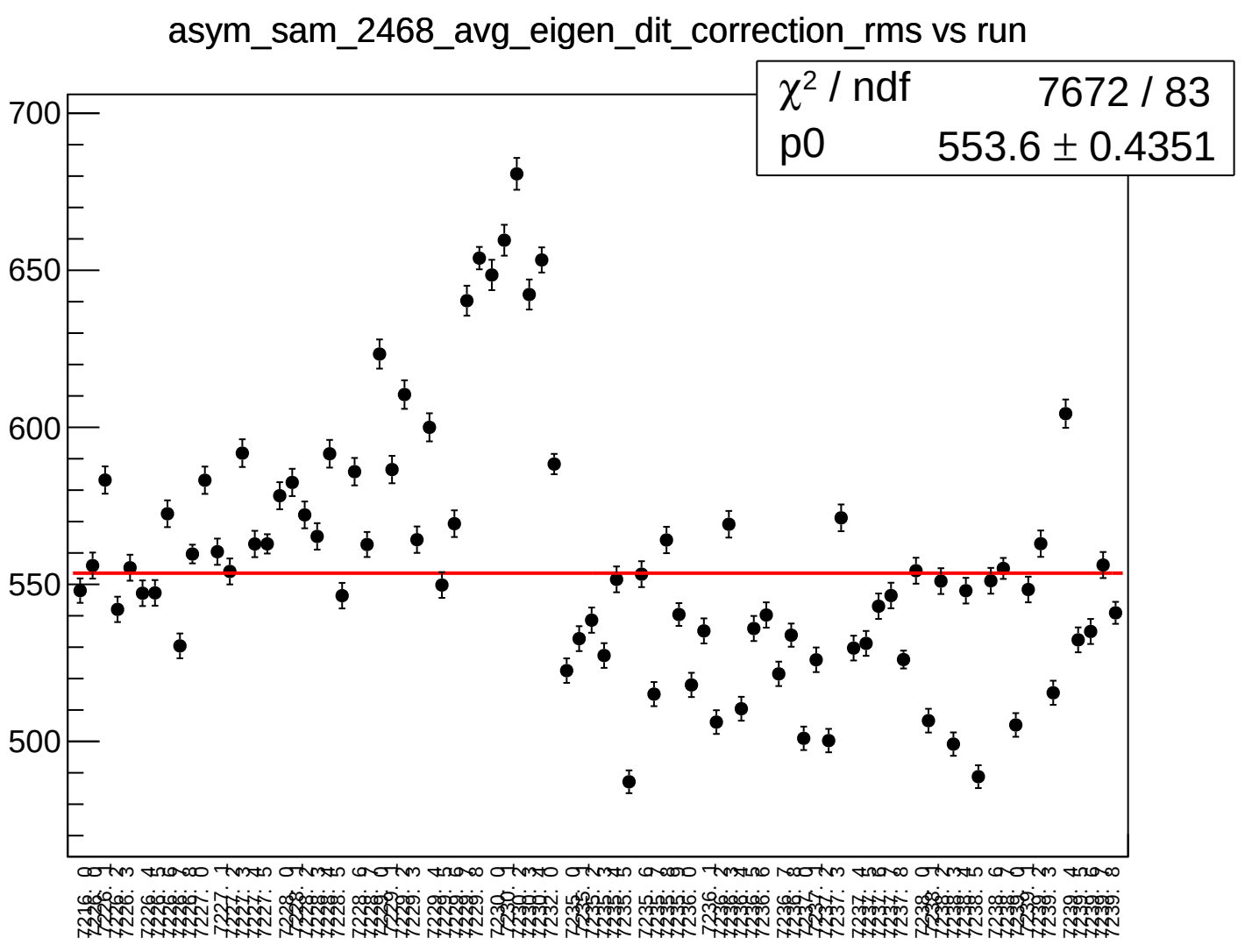

eigen_dit_asym_sam_2468_avg_mean vs run
χ² / ndf 77.79 / 83
p0 −237.3 ± 93.53
pull
Entries 84
Mean 283.8
Std Dev 0

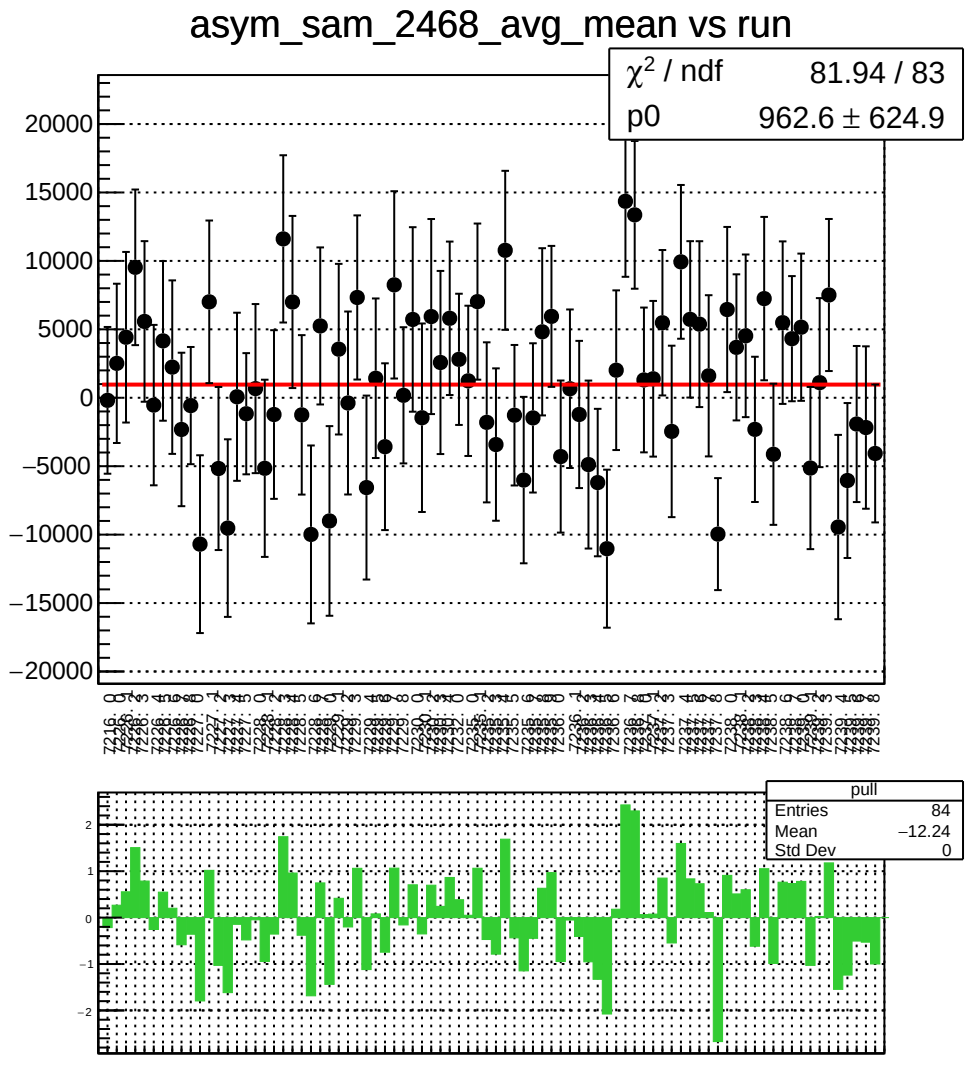

pull1D
Entries 84
Mean −0.01237
Std Dev 0.9622

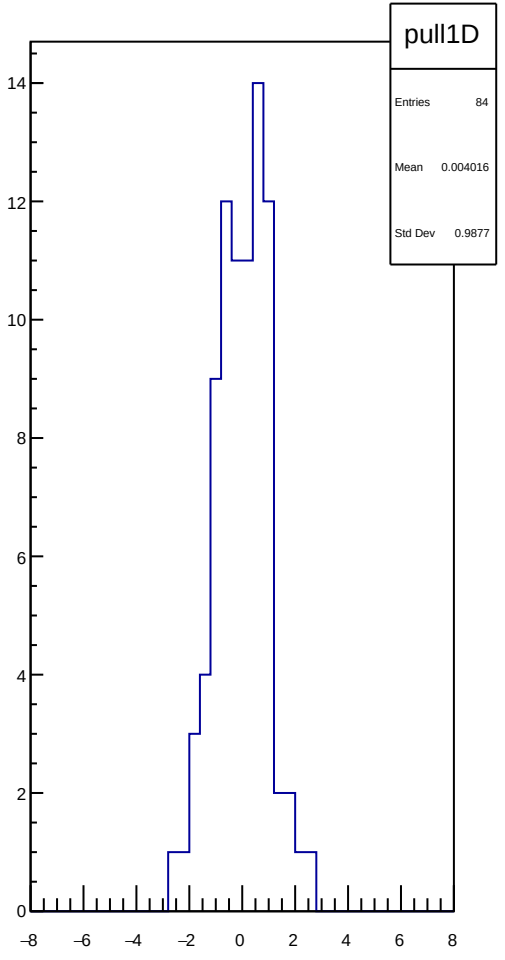

eigen_dit_asym_sam_2468_avg_rms vs run
χ² / ndf 1.996e+04 / 83
p0 83.83 ± 0.06613
120
110
100
90
80
70

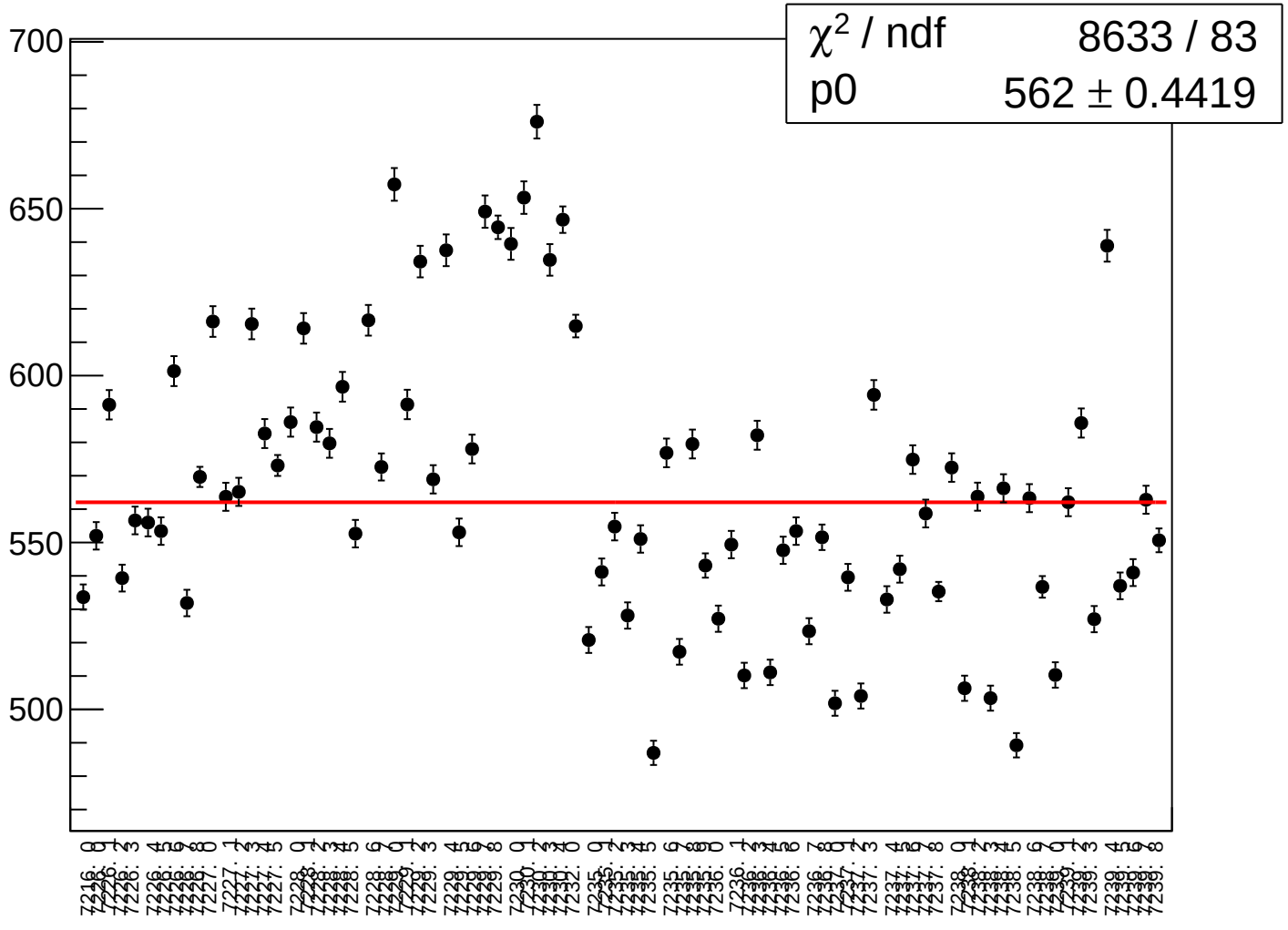

asym_sam_2468_avg_eigen_dit_correction_mean vs run
χ² / ndf 79.36 / 83
p0 −1155 ± 615.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 84
Mean 70.23
Std Dev 0
2
1
0
−1
−2

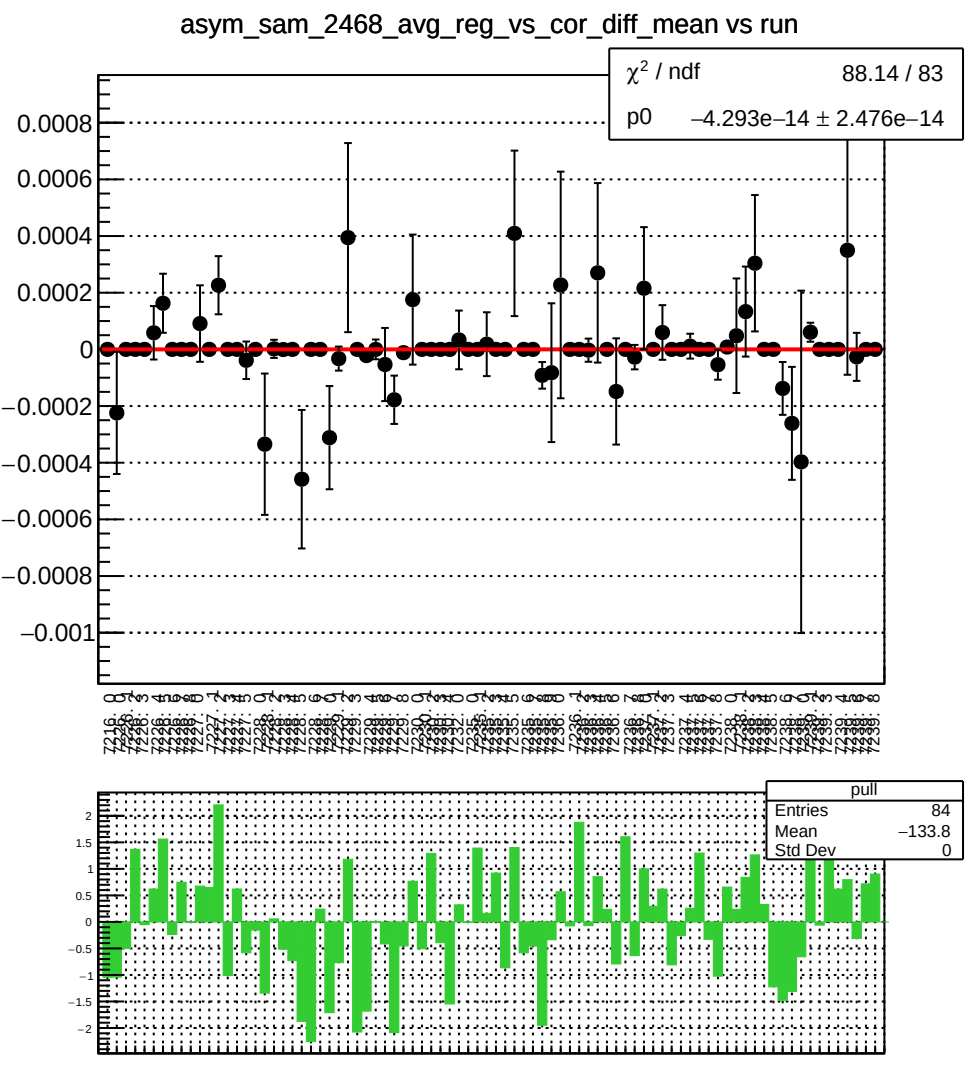

pull1D
Entries 84
Mean −0.009783
Std Dev 0.9719
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

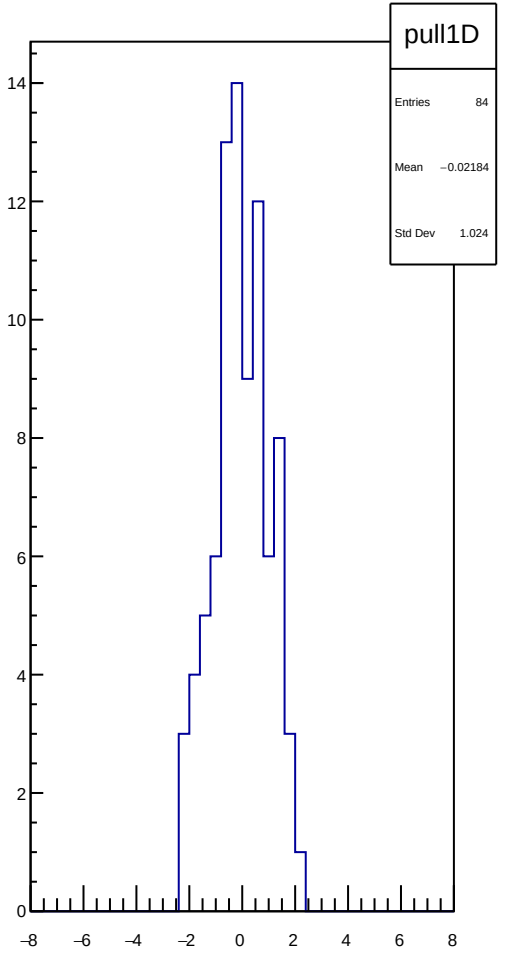

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 7672 / 83
p0 553.6 ± 0.4351
700
650
600
550
500

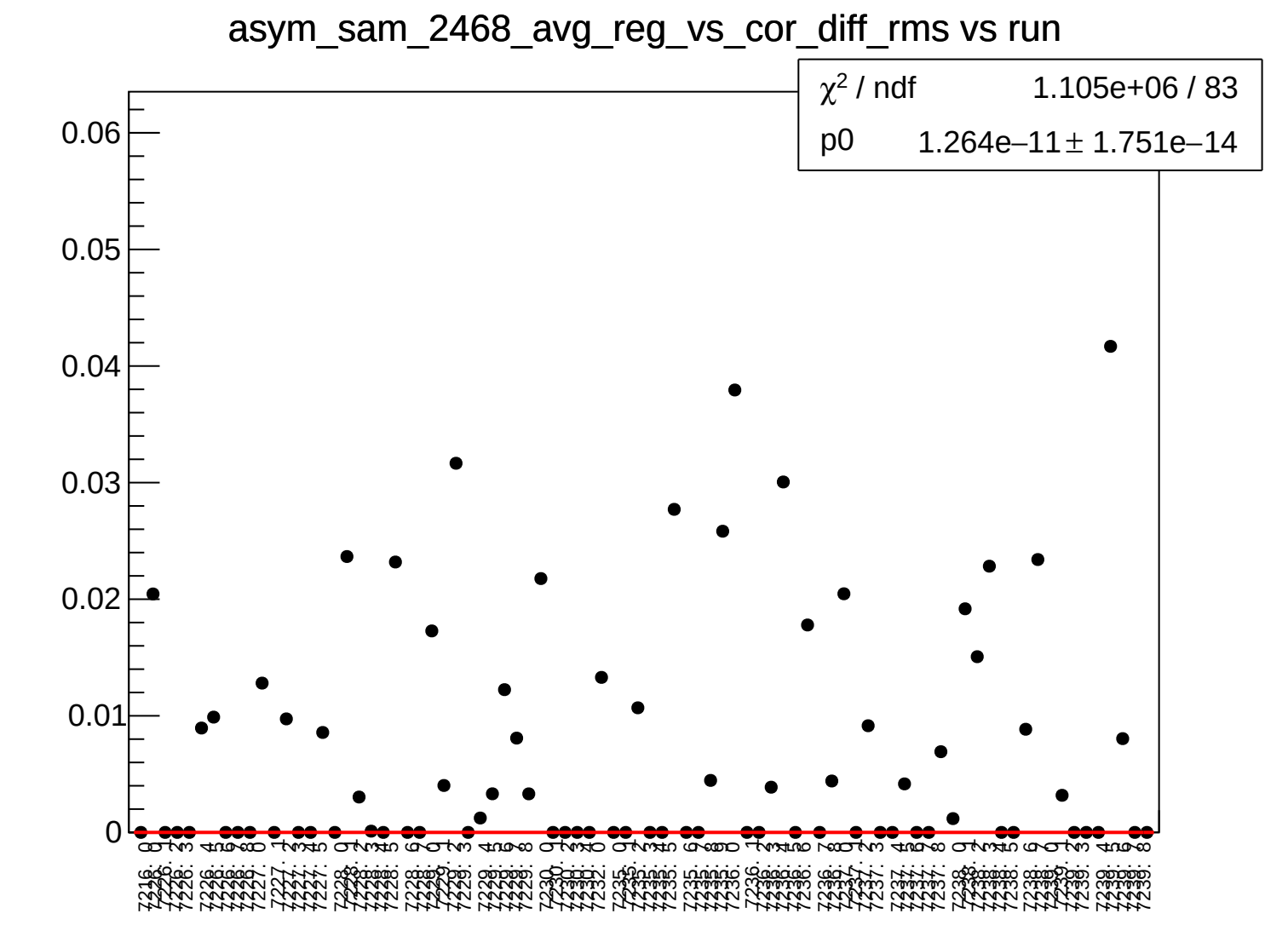

asym_sam_2468_avg_mean vs run
χ² / ndf 81.94 / 83
p0 962.6 ± 624.9
pull
Entries 84
Mean −12.24
Std Dev 0

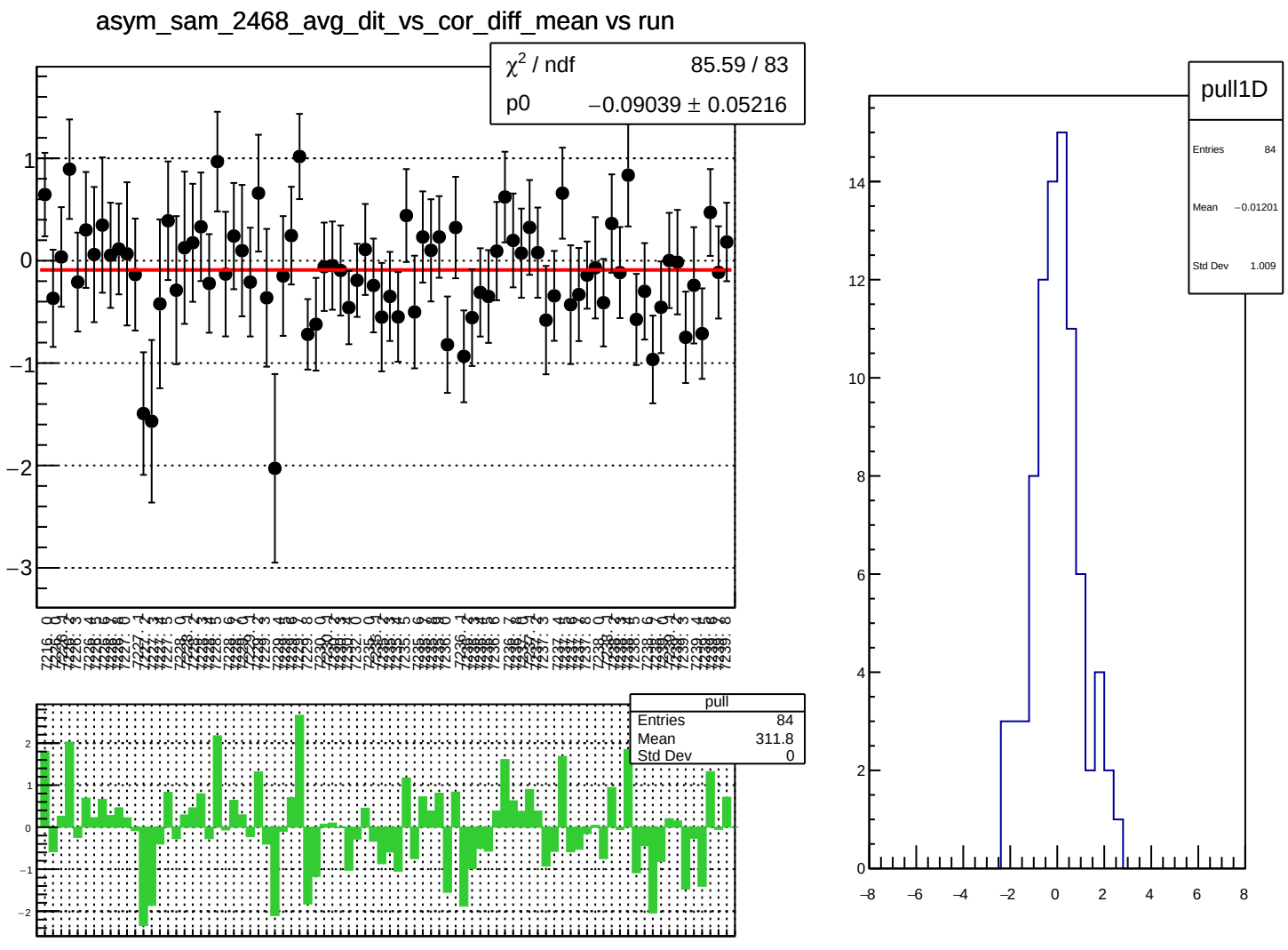

pull1D
Entries 84
Mean 0.004016
Std Dev 0.9877

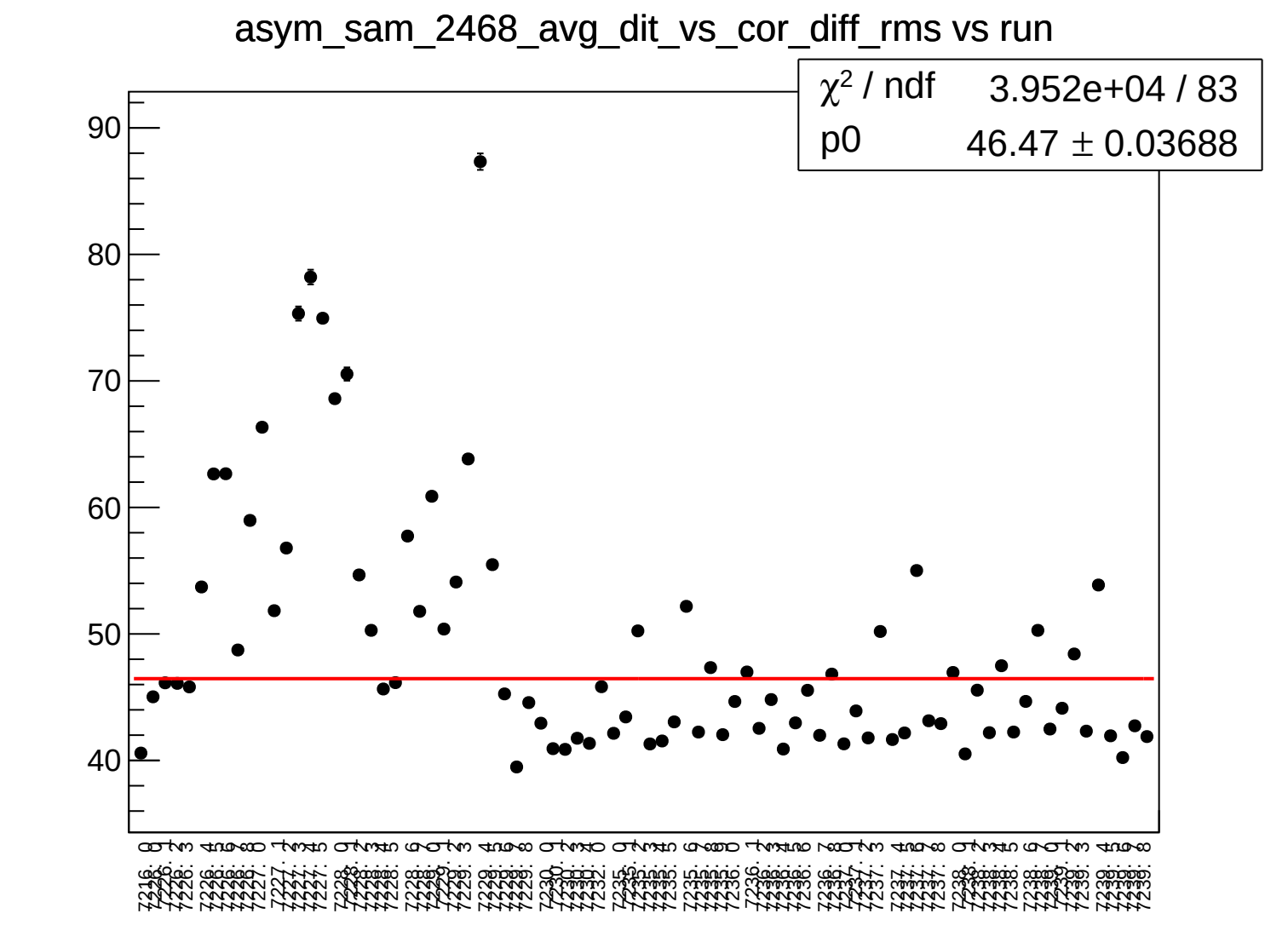

asym_sam_2468_avg_rms vs run
χ^2 / ndf 8633 / 83
p0 562 ± 0.4419
700
650
600
550
500

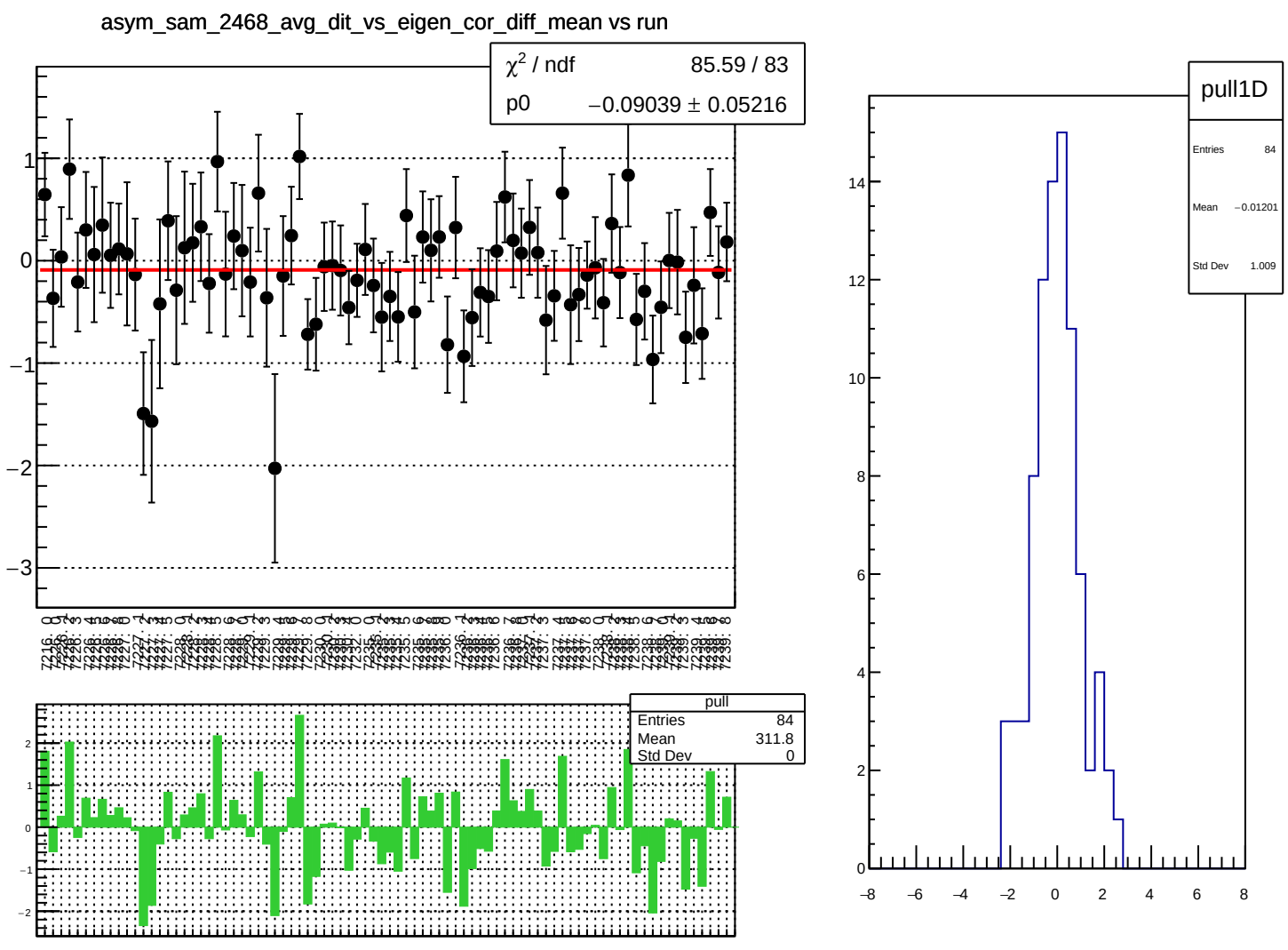

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 88.14 / 83
p0 −4.293e−14 ± 2.476e−14
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 84
Mean −133.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

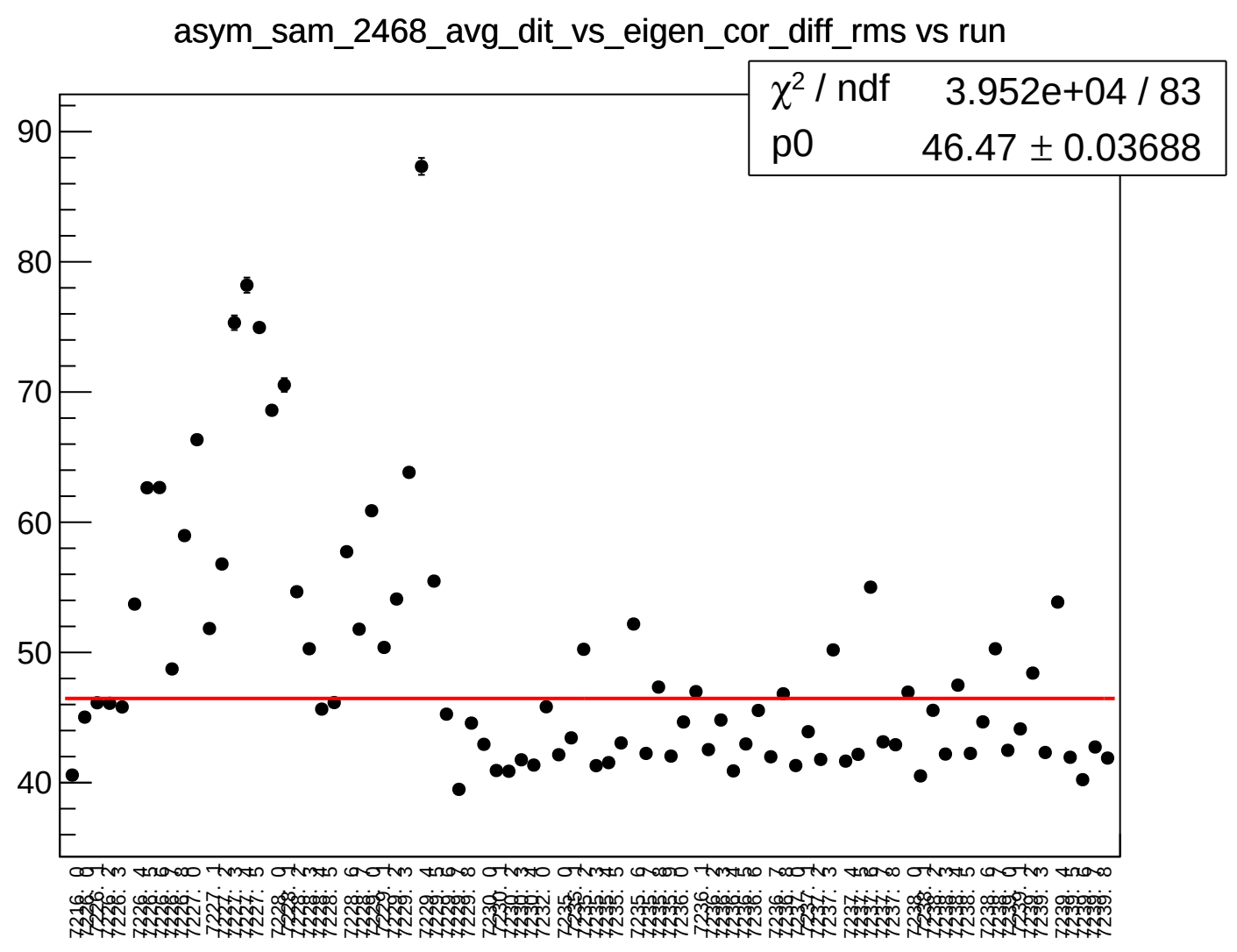

pull1D
Entries 84
Mean −0.02184
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

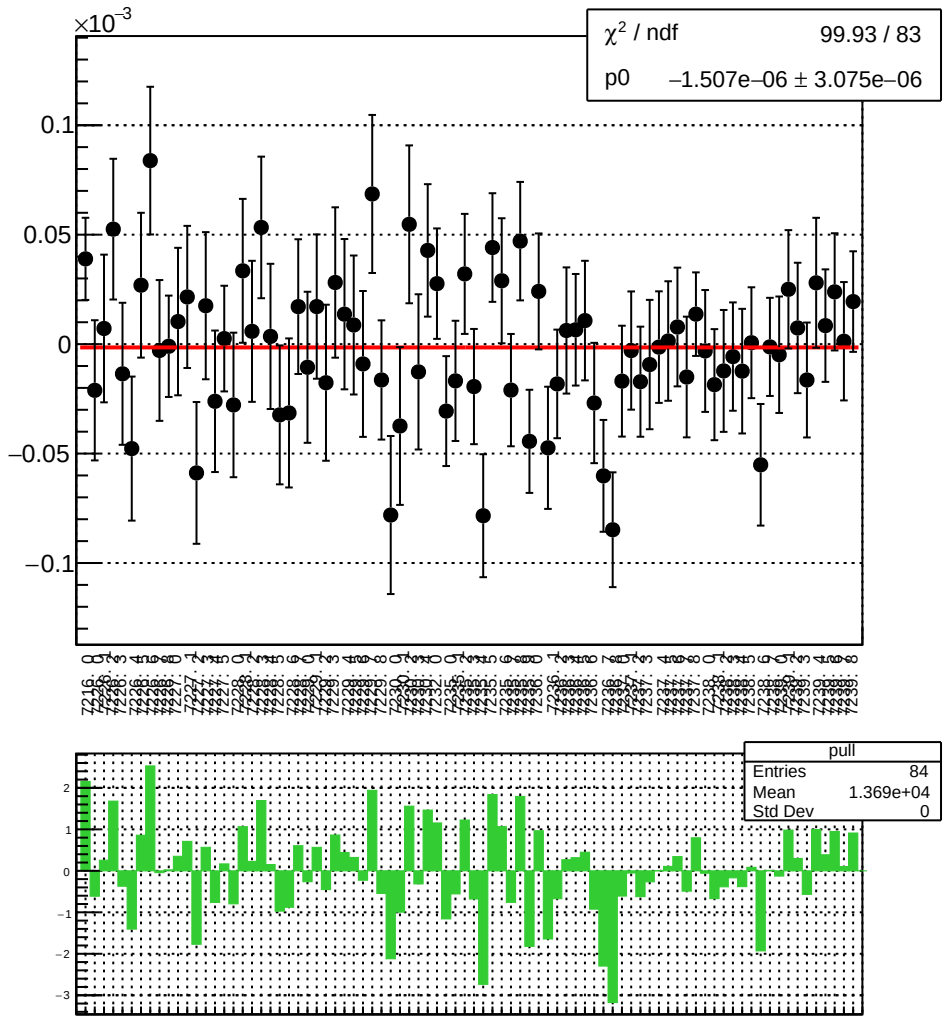

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.105e+06 / 83
p0 1.264e−11 ± 1.751e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

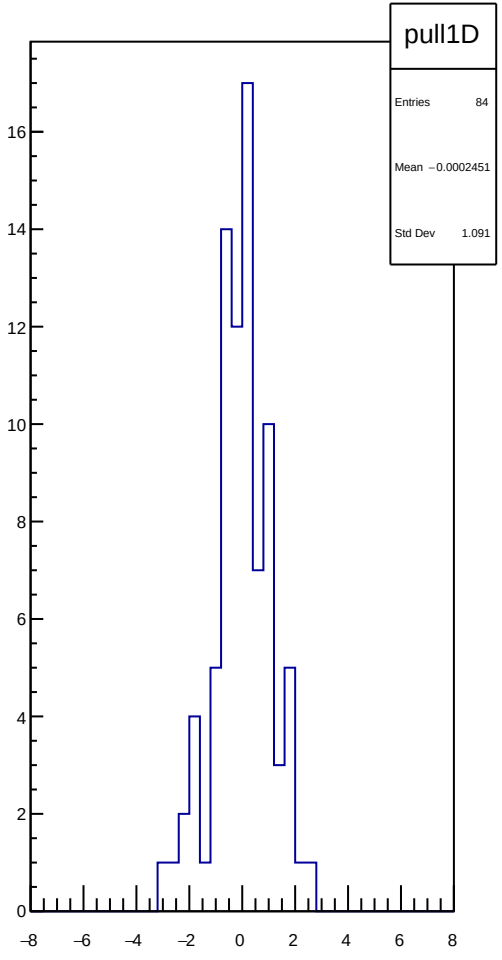

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 85.59 / 83
p0 −0.09039 ± 0.05216
pull
Entries 84
Mean 311.8
Std Dev 0
pull1D
Entries 84
Mean −0.01201
Std Dev 1.009

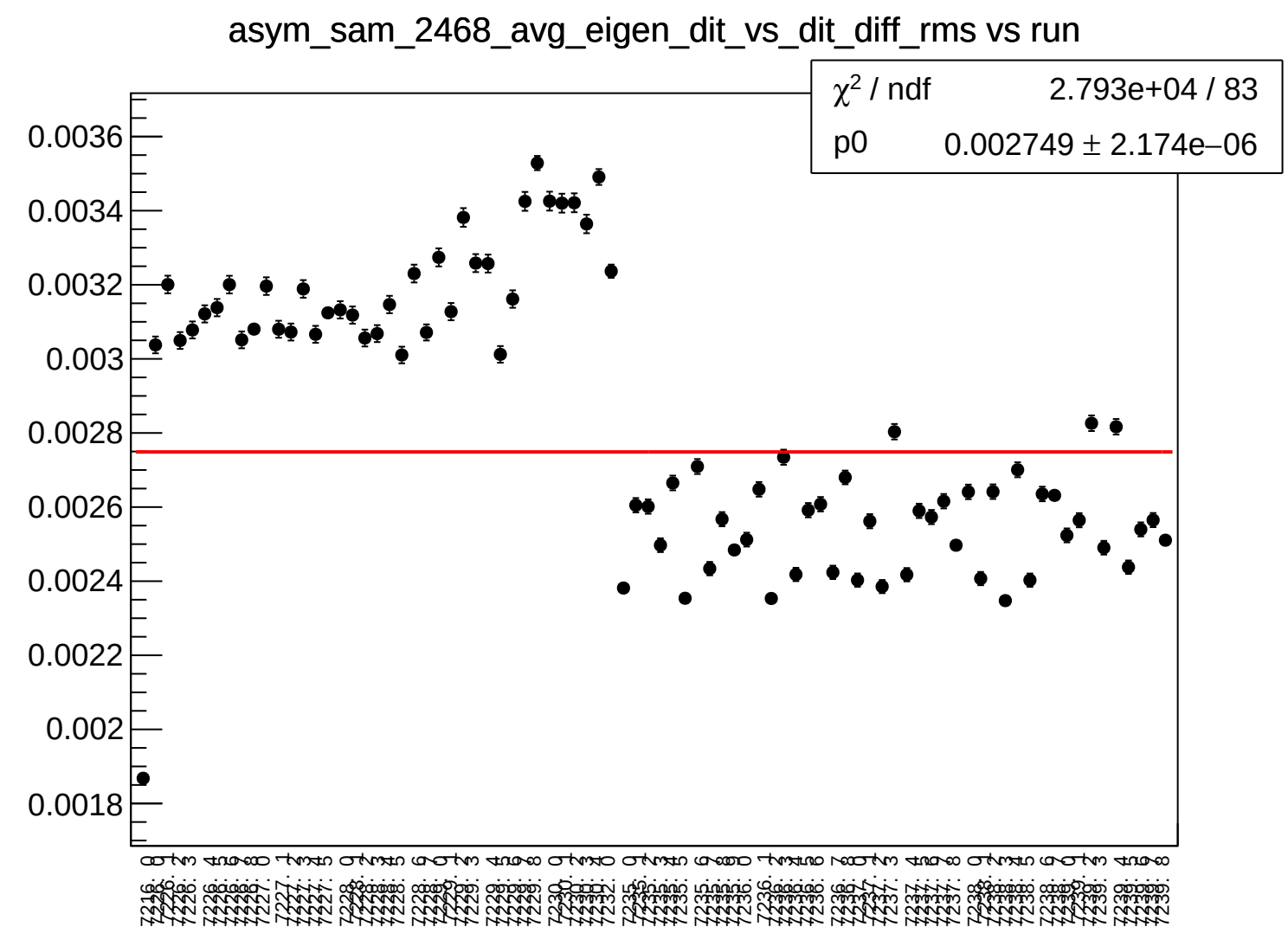

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.952e+04 / 83
p0 46.47 ± 0.03688
90
80
70
60
50
40

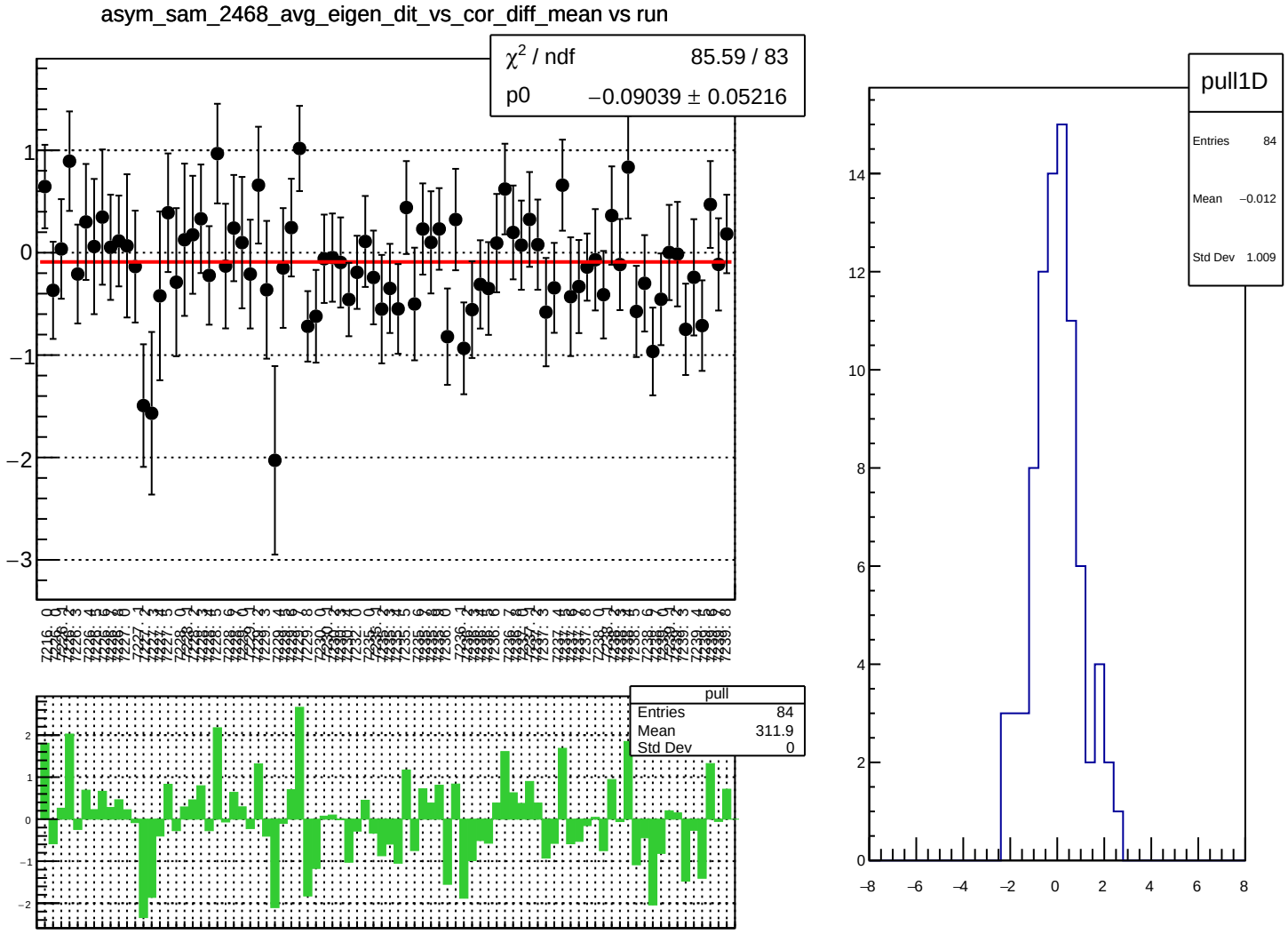

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.59 / 83
p0 −0.09039 ± 0.05216
pull
Entries 84
Mean 311.8
Std Dev 0
pull1D
Entries 84
Mean −0.01201
Std Dev 1.009

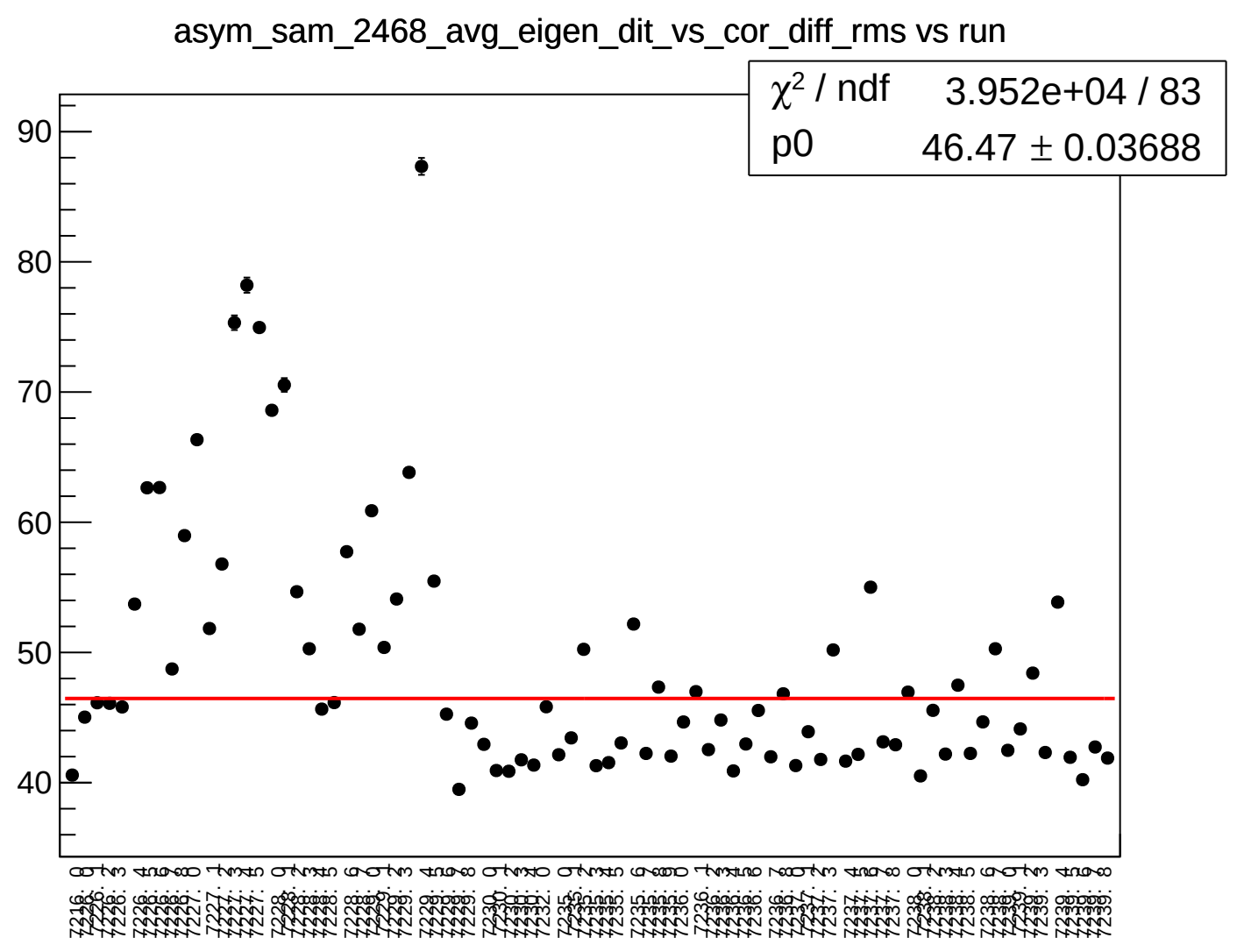

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.952e+04 / 83
p0 46.47 ± 0.03688
90
80
70
60
50
40

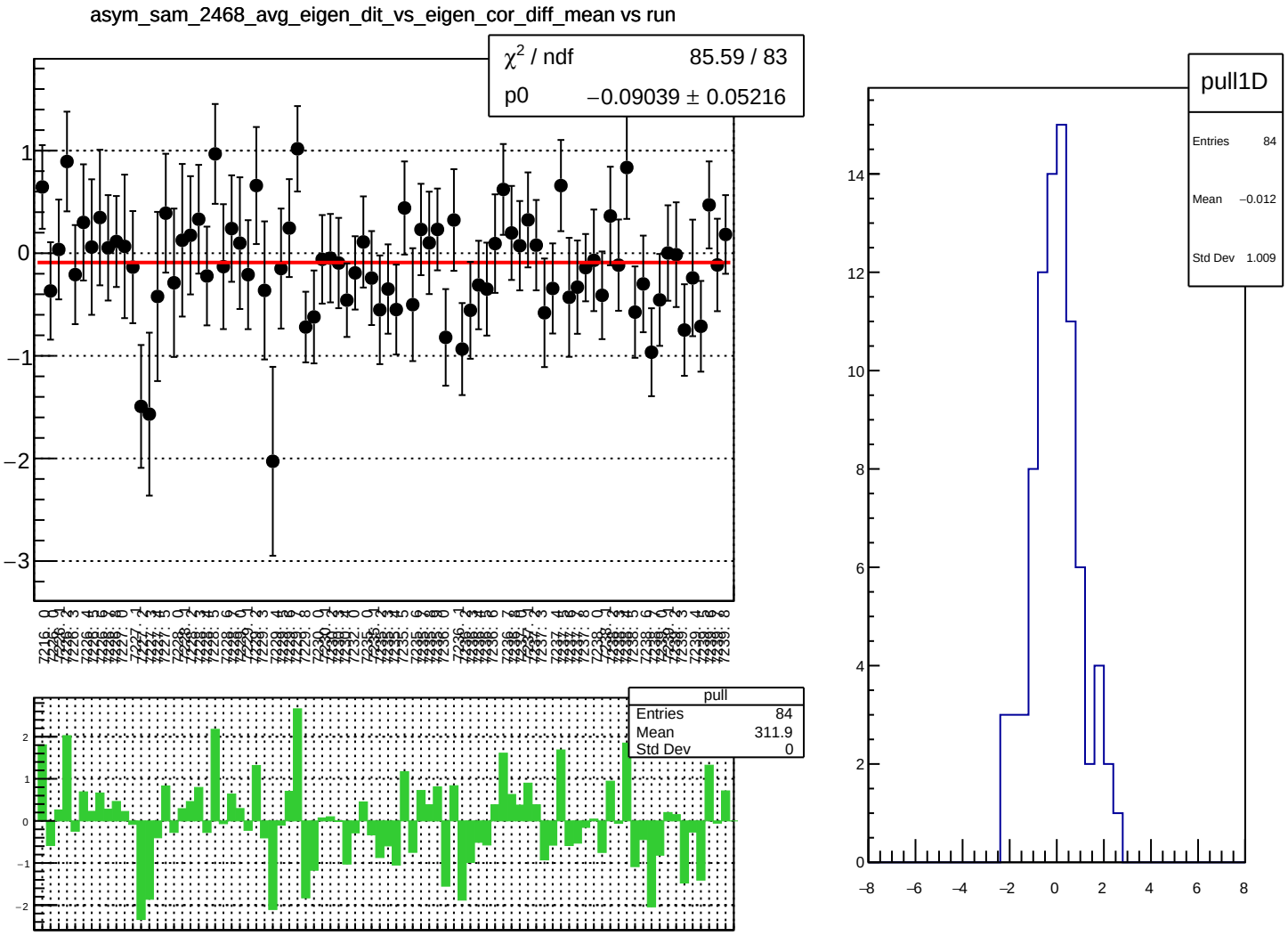

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.93 / 83
p0 −1.507e−06 ± 3.075e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 84
Mean 1.369e+04
Std Dev 0
2
1
0
−1
−2
−3

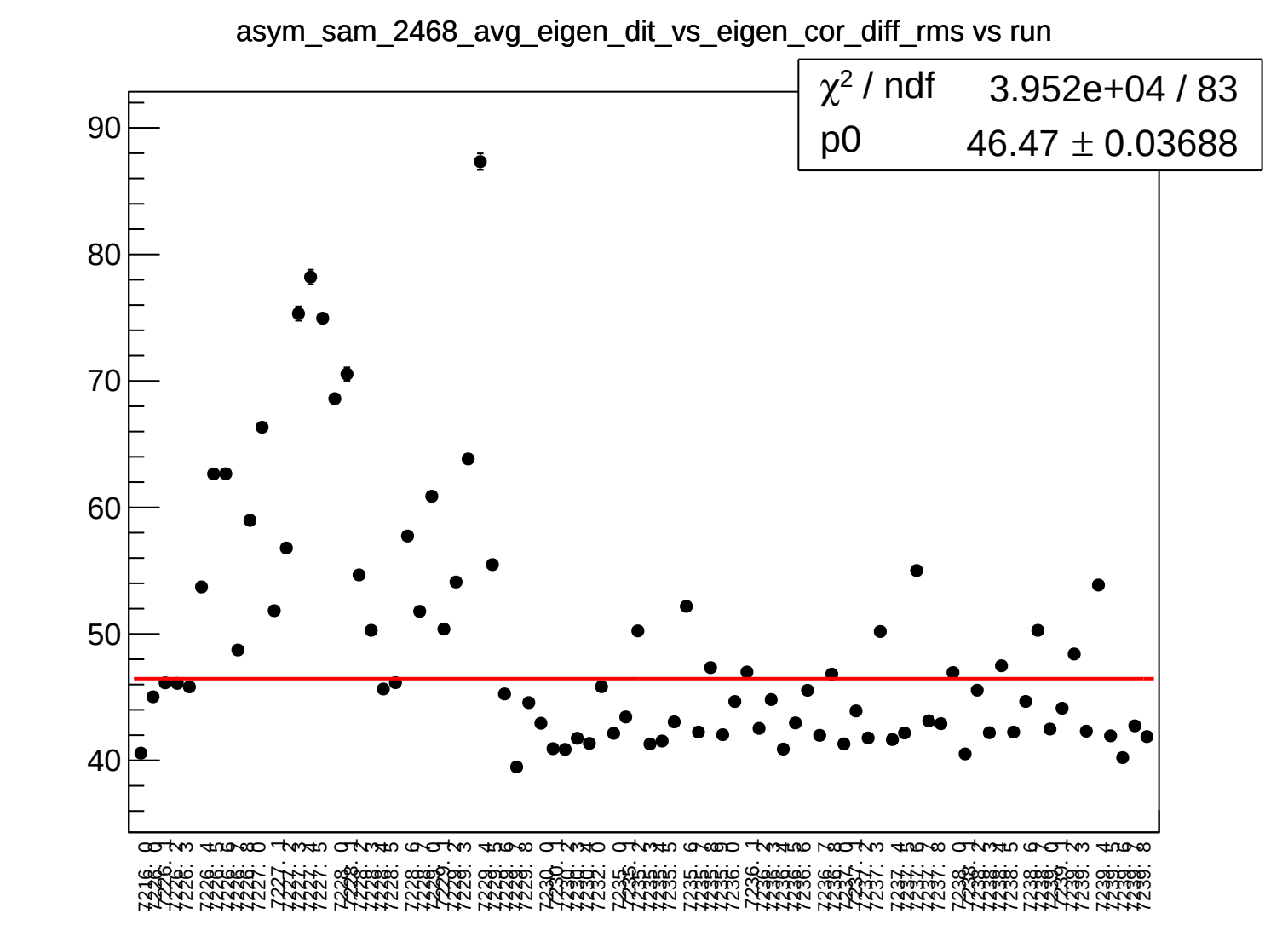

pull1D
Entries 84
Mean −0.0002451
Std Dev 1.091
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

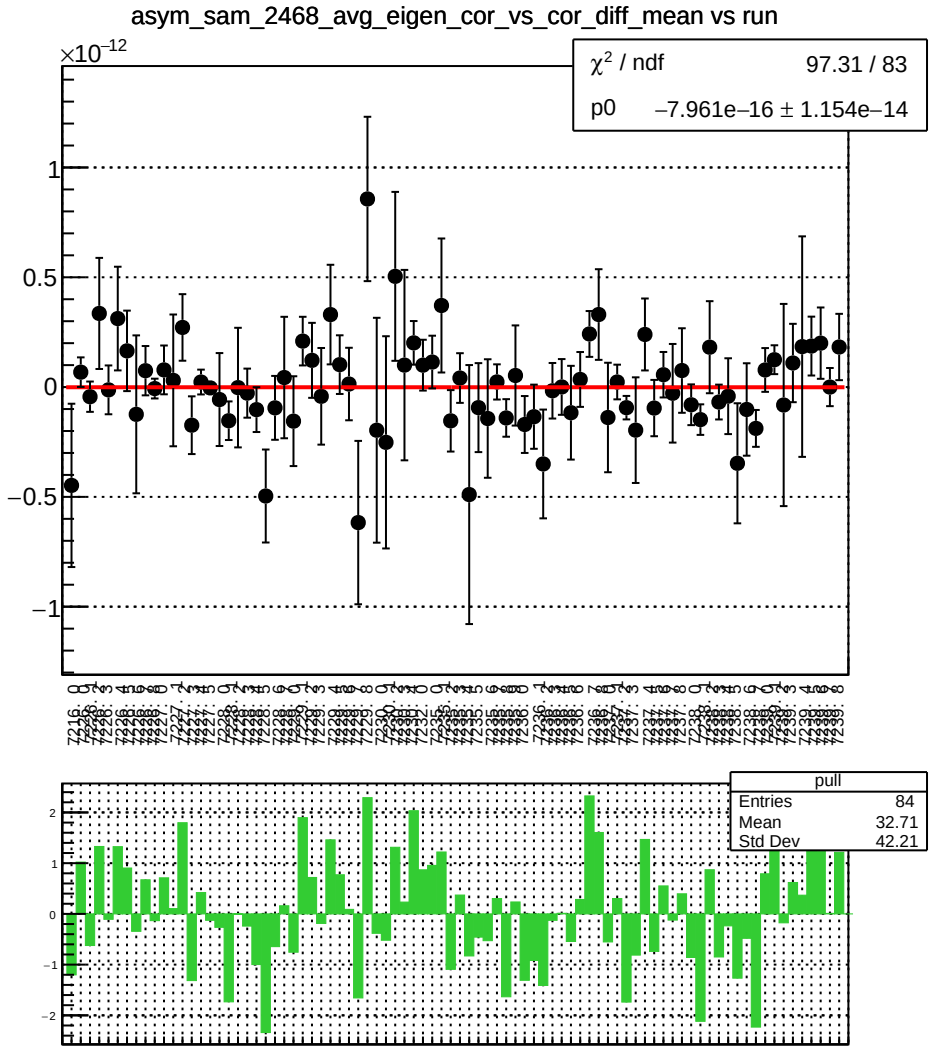

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.793e+04 / 83
p0 0.002749 ± 2.174e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

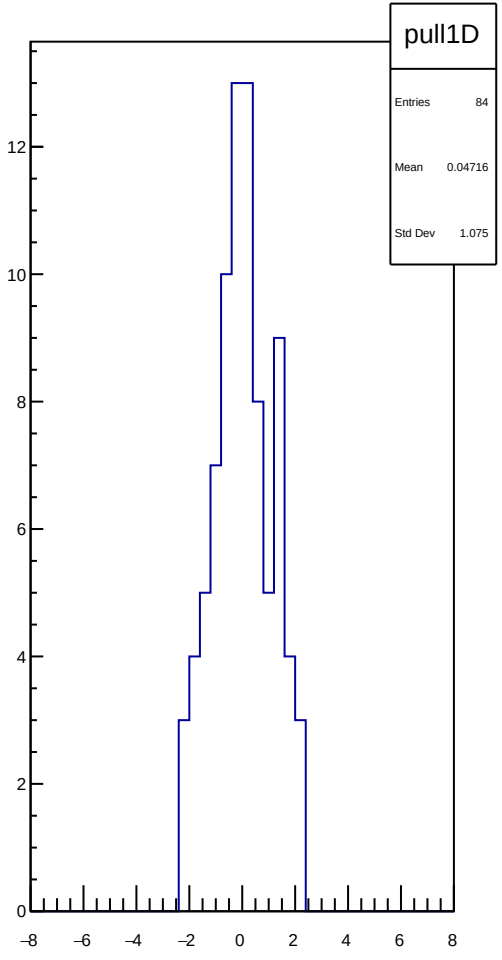

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.59 / 83
p0 −0.09039 ± 0.05216
pull
Entries 84
Mean 311.9
Std Dev 0
pull1D
Entries 84
Mean −0.012
Std Dev 1.009

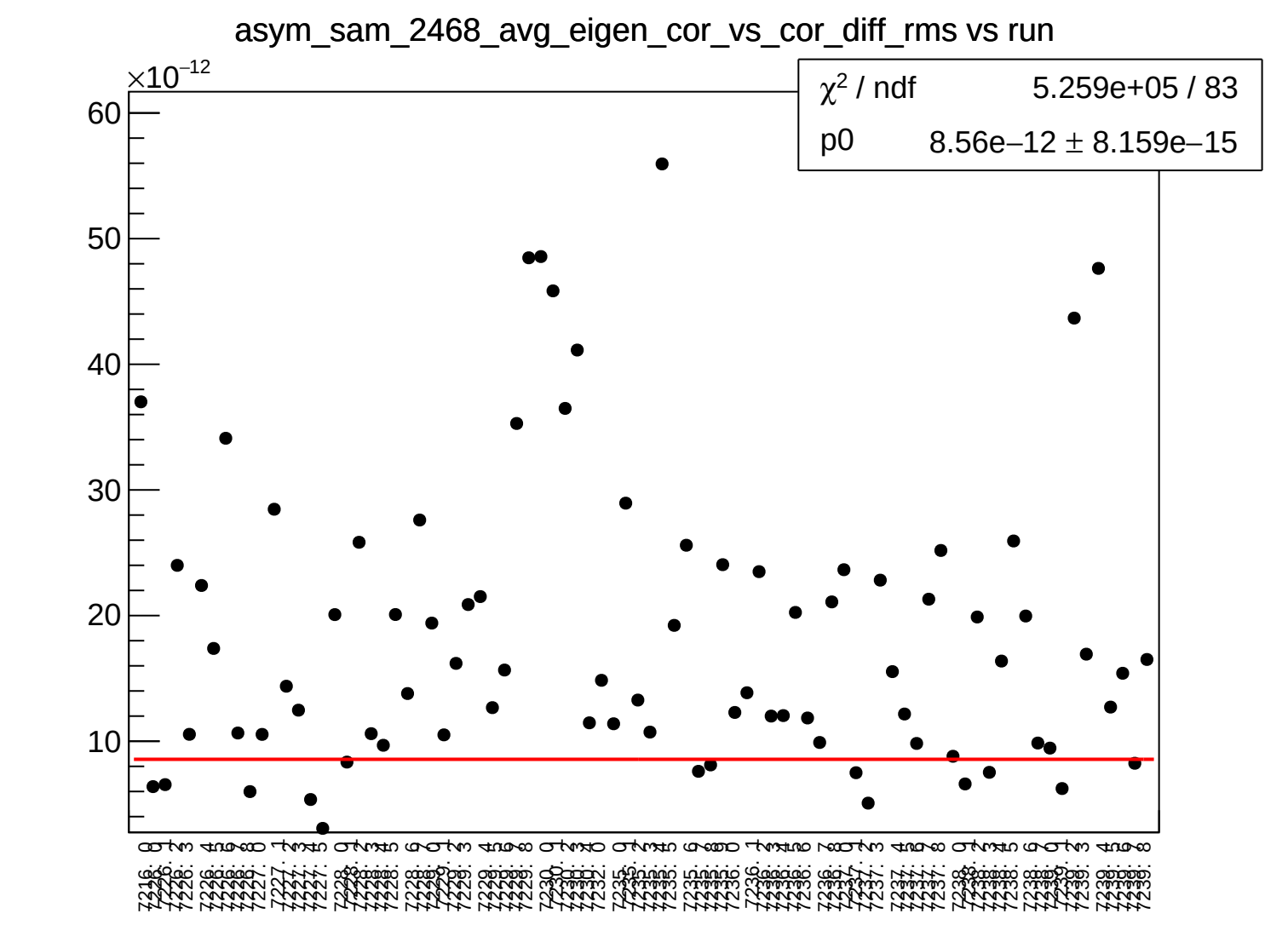

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.952e+04 / 83
p0 46.47 ± 0.03688
90
80
70
60
50
40

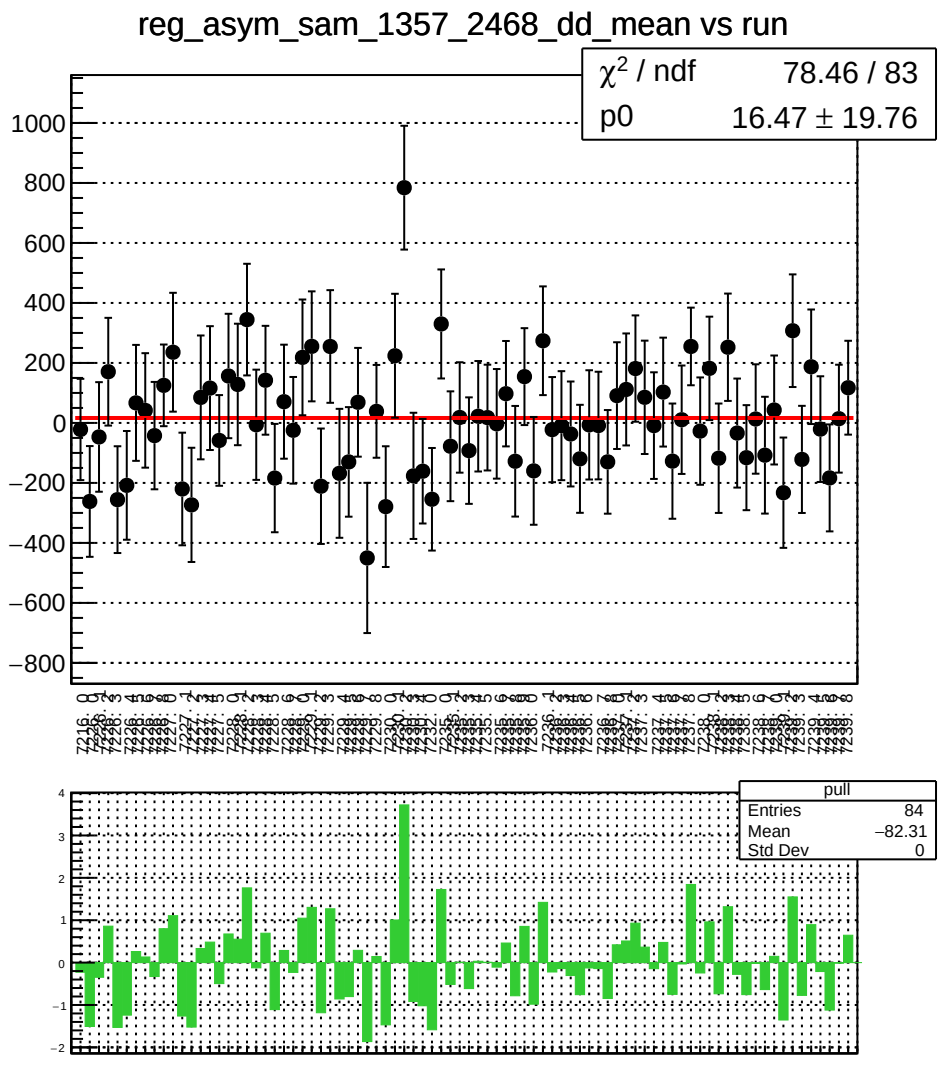

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.59 / 83
p0 −0.09039 ± 0.05216
pull
Entries 84
Mean 311.9
Std Dev 0
pull1D
Entries 84
Mean −0.012
Std Dev 1.009

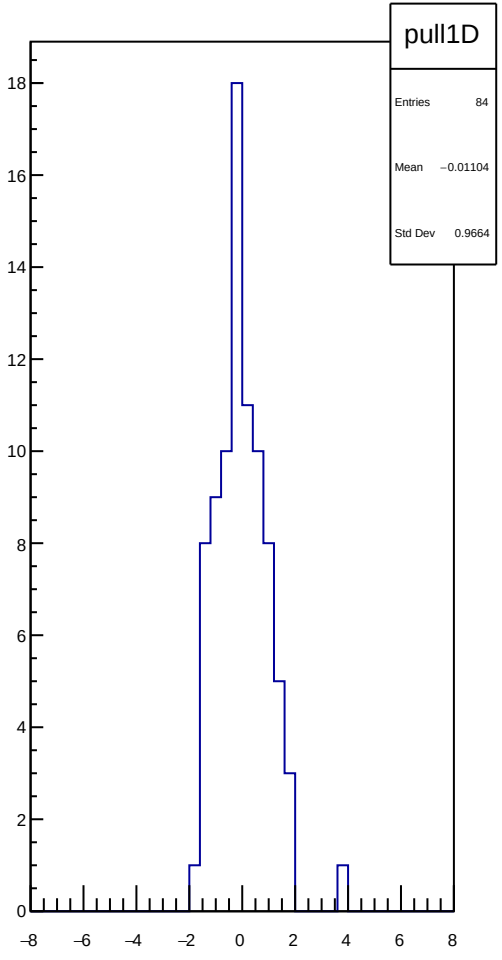

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.952e+04 / 83
p0 46.47 ± 0.03688
90
80
70
60
50
40

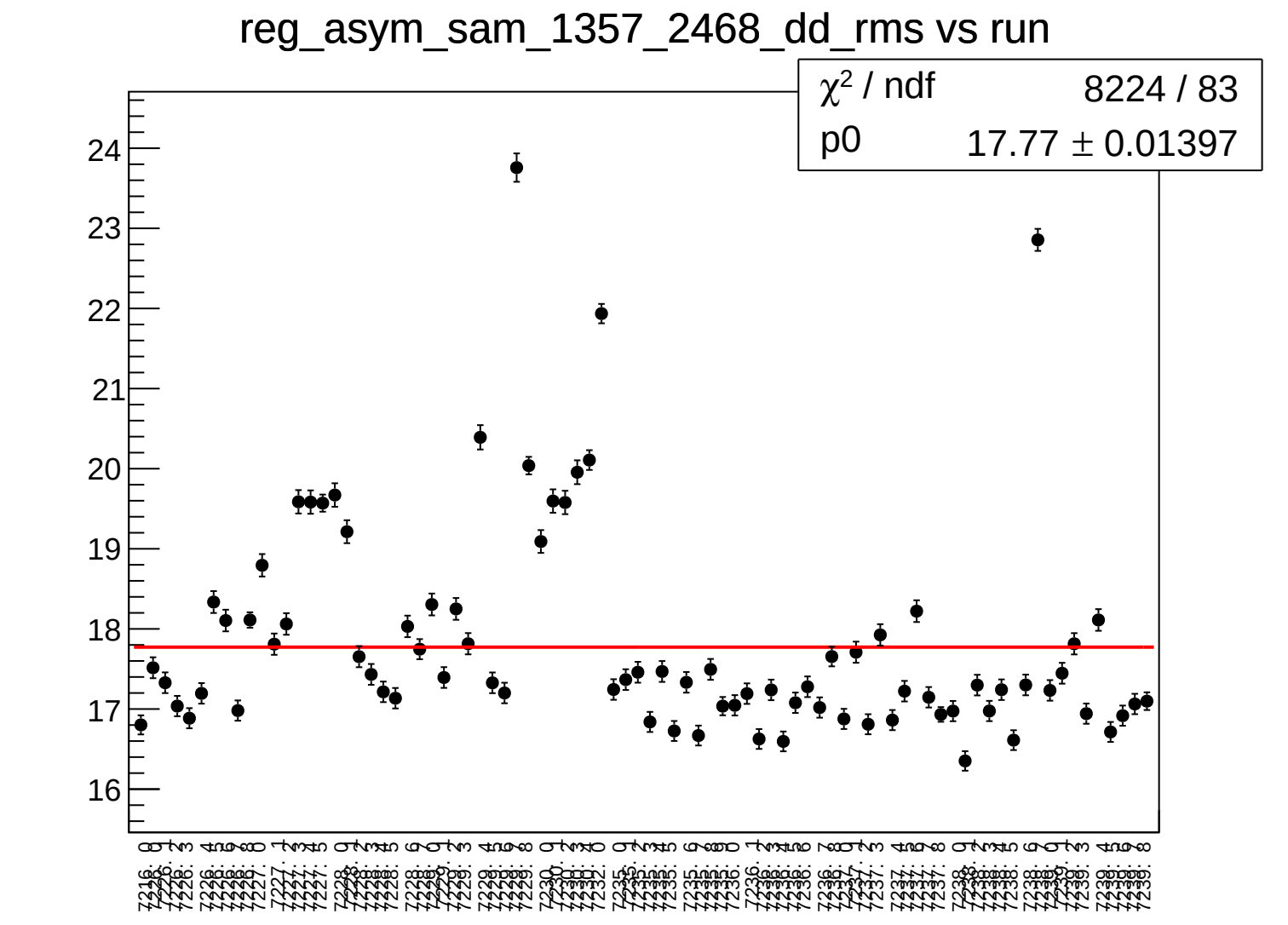

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.31 / 83
p0 −7.961e−16 ± 1.154e−14
pull
Entries 84
Mean 32.71
Std Dev 42.21

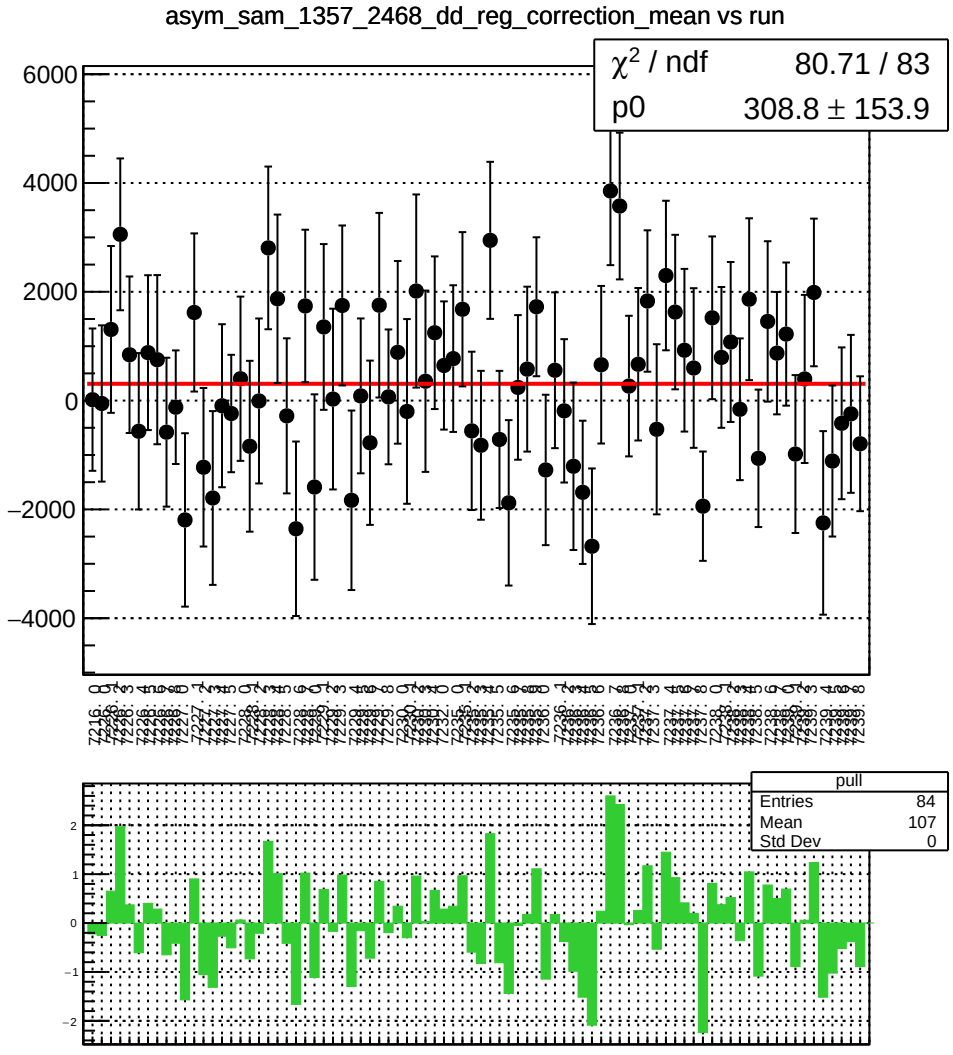

pull1D
Entries 84
Mean 0.04716
Std Dev 1.075

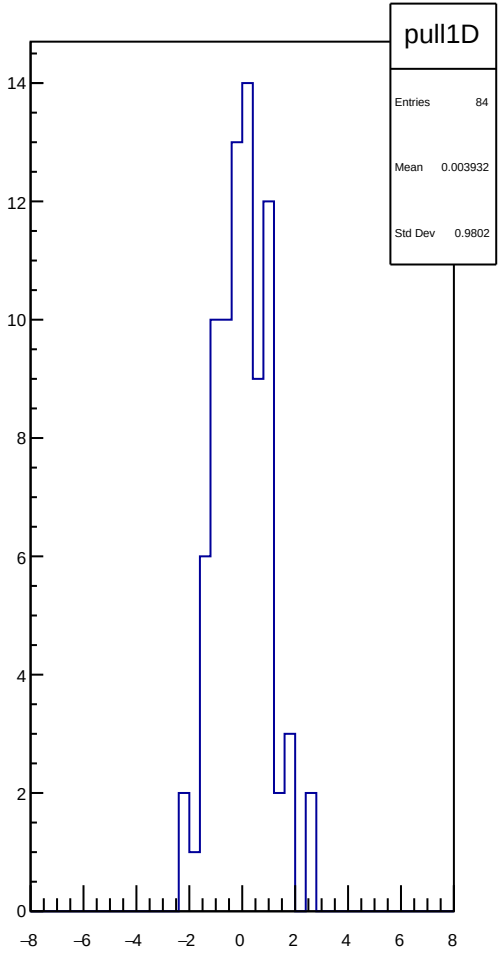

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
60
50
40
30
20
10
χ² / ndf 5.259e+05 / 83
p0 8.56e−12 ± 8.159e−15

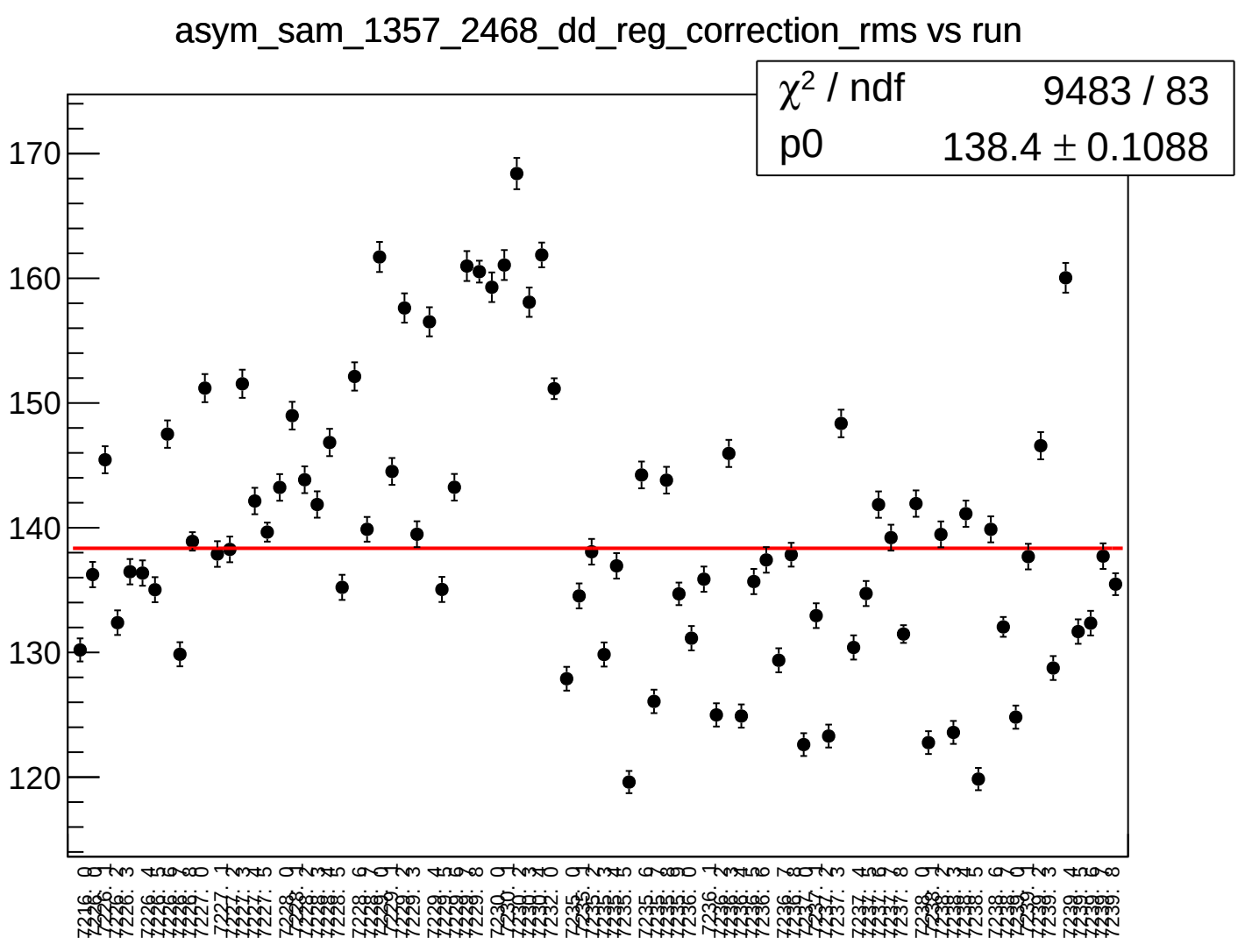

reg_asym_sam_1357_2468_dd_mean vs run
χ^2 / ndf 78.46 / 83
p0 16.47 ± 19.76
pull
Entries 84
Mean −82.31
Std Dev 0

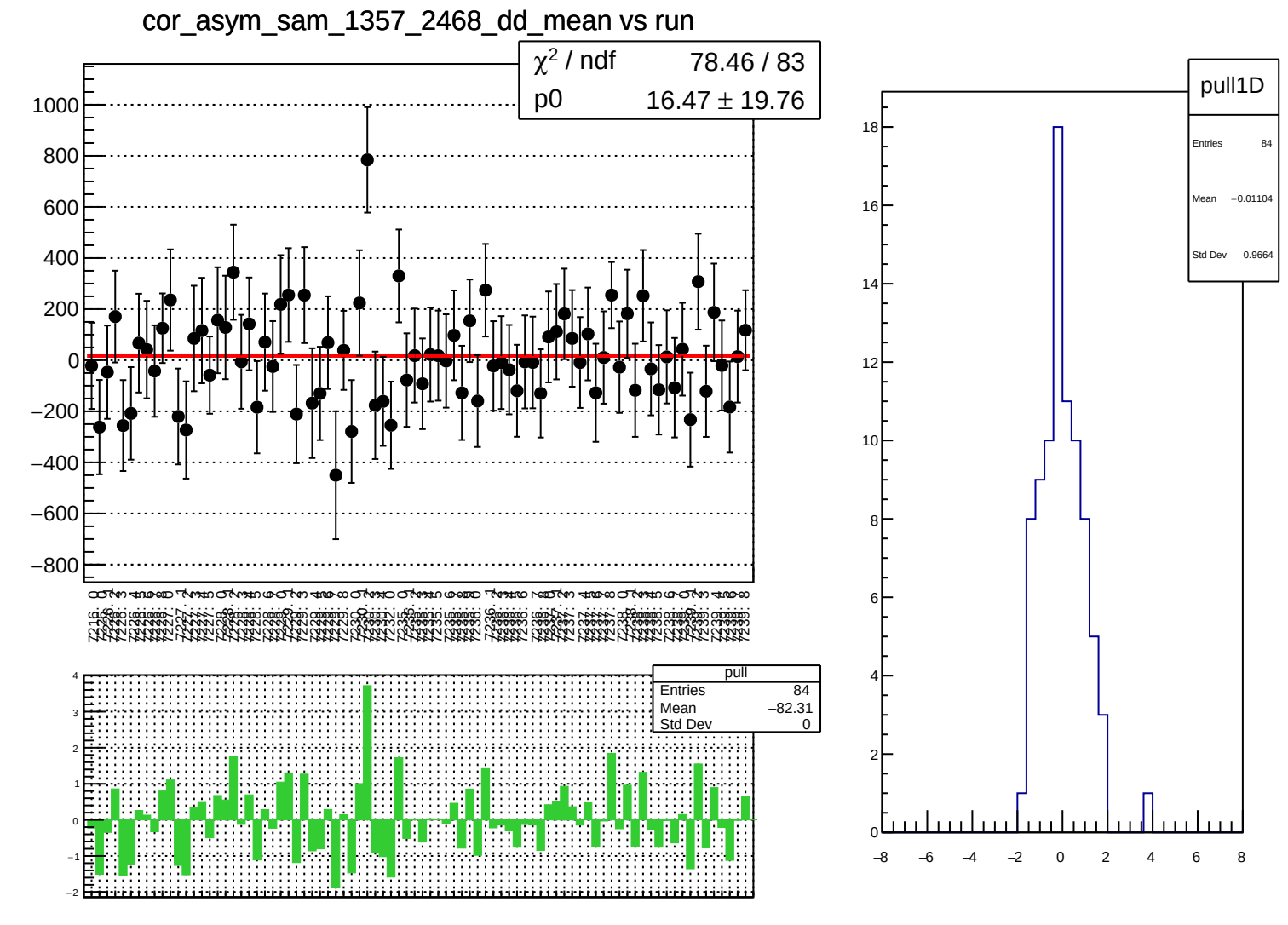

pull1D
Entries 84
Mean −0.01104
Std Dev 0.9664

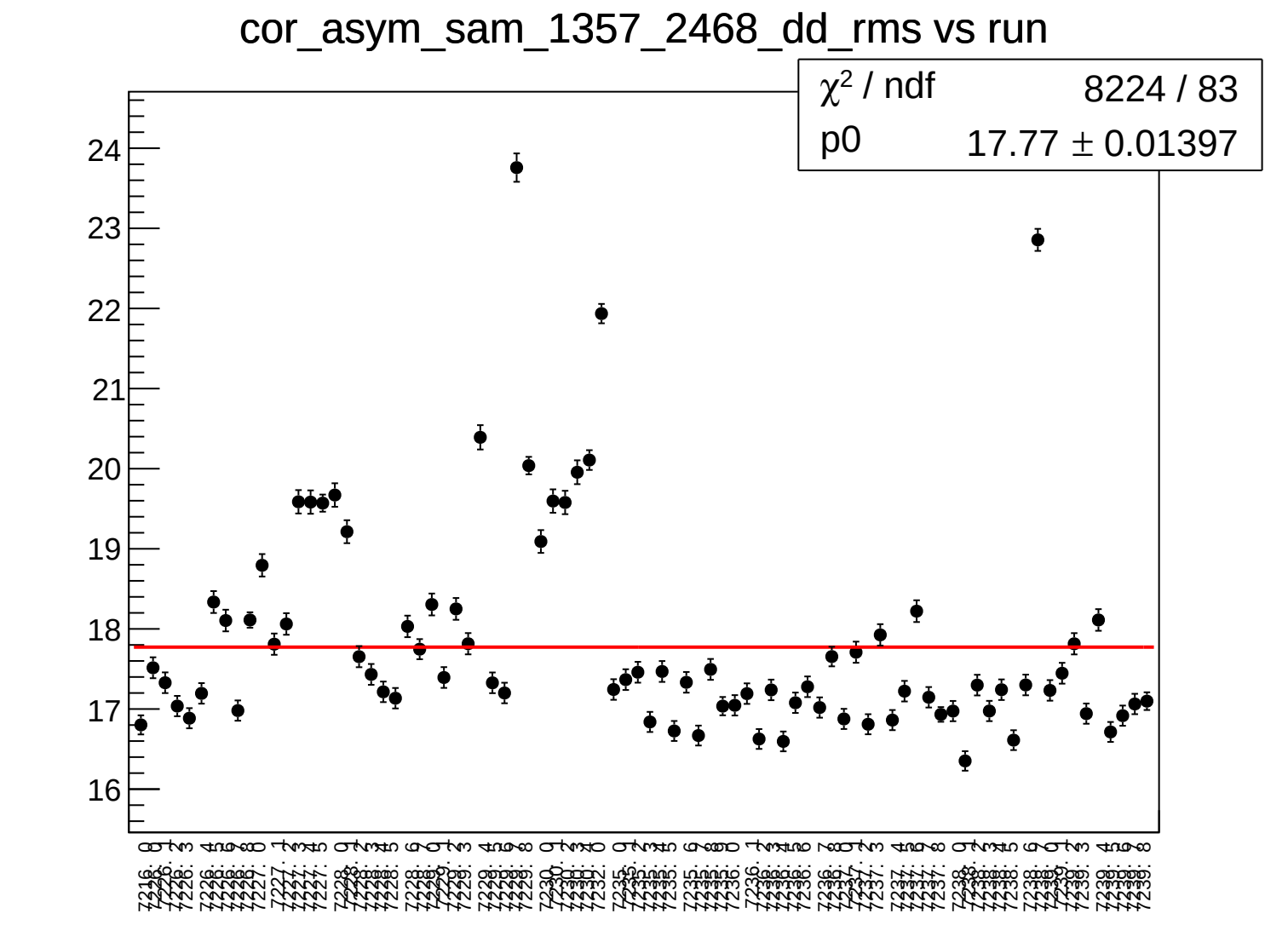

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 8224 / 83
p0 17.77 ± 0.01397
24
23
22
21
20
19
18
17
16

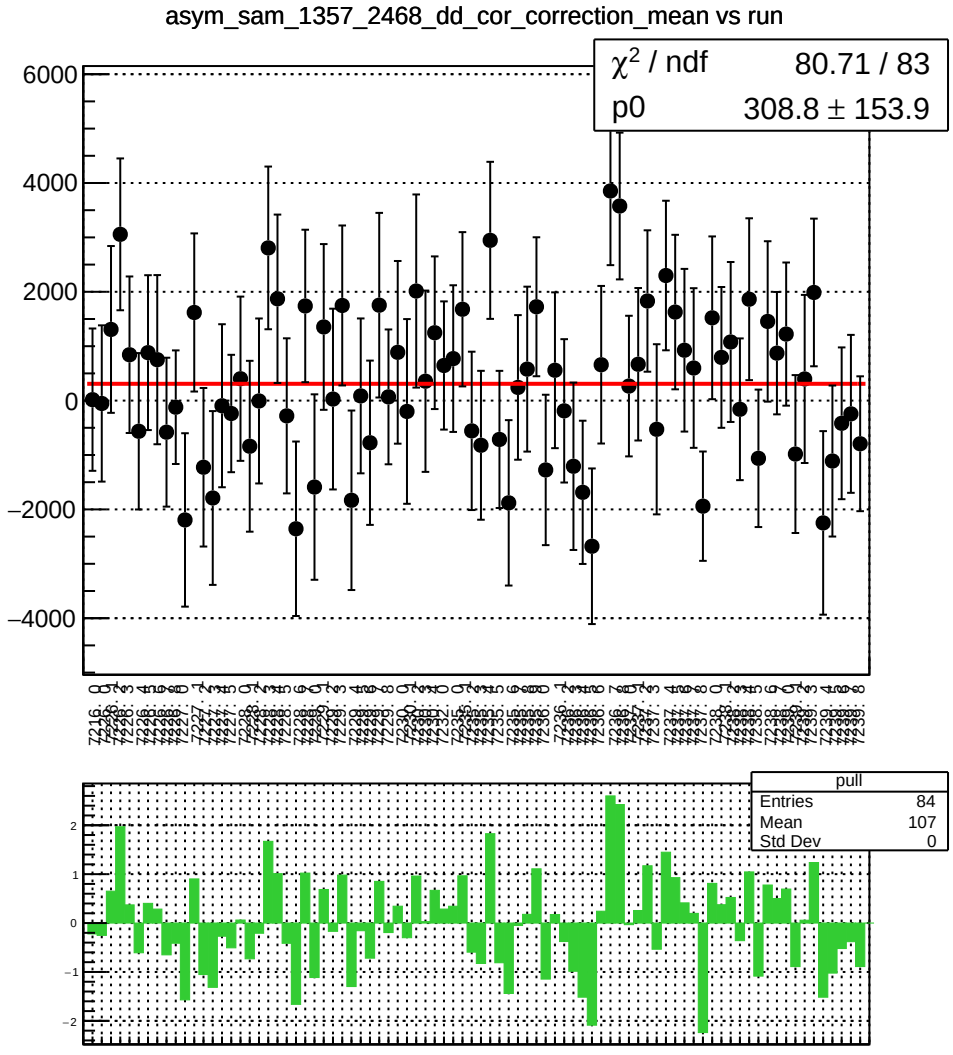

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 80.71 / 83
p0 308.8 ± 153.9
pull
Entries 84
Mean 107
Std Dev 0

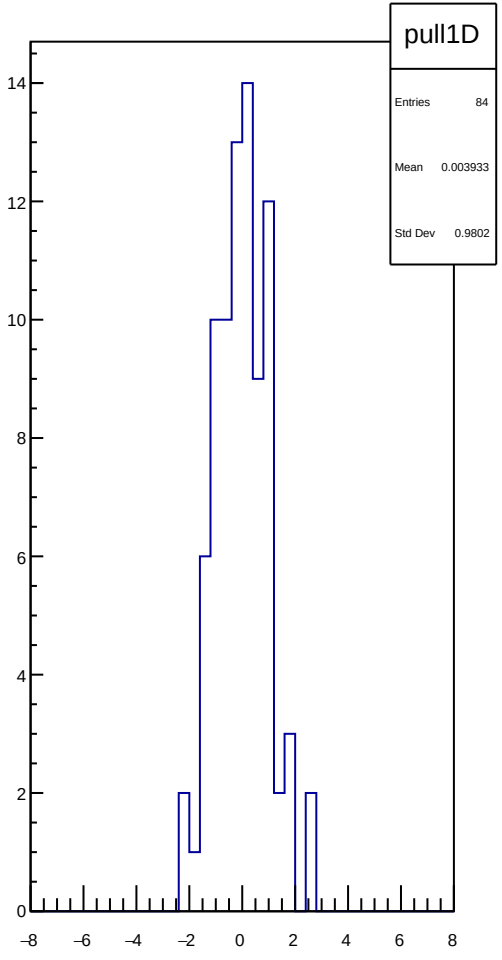

pull1D
Entries 84
Mean 0.003932
Std Dev 0.9802

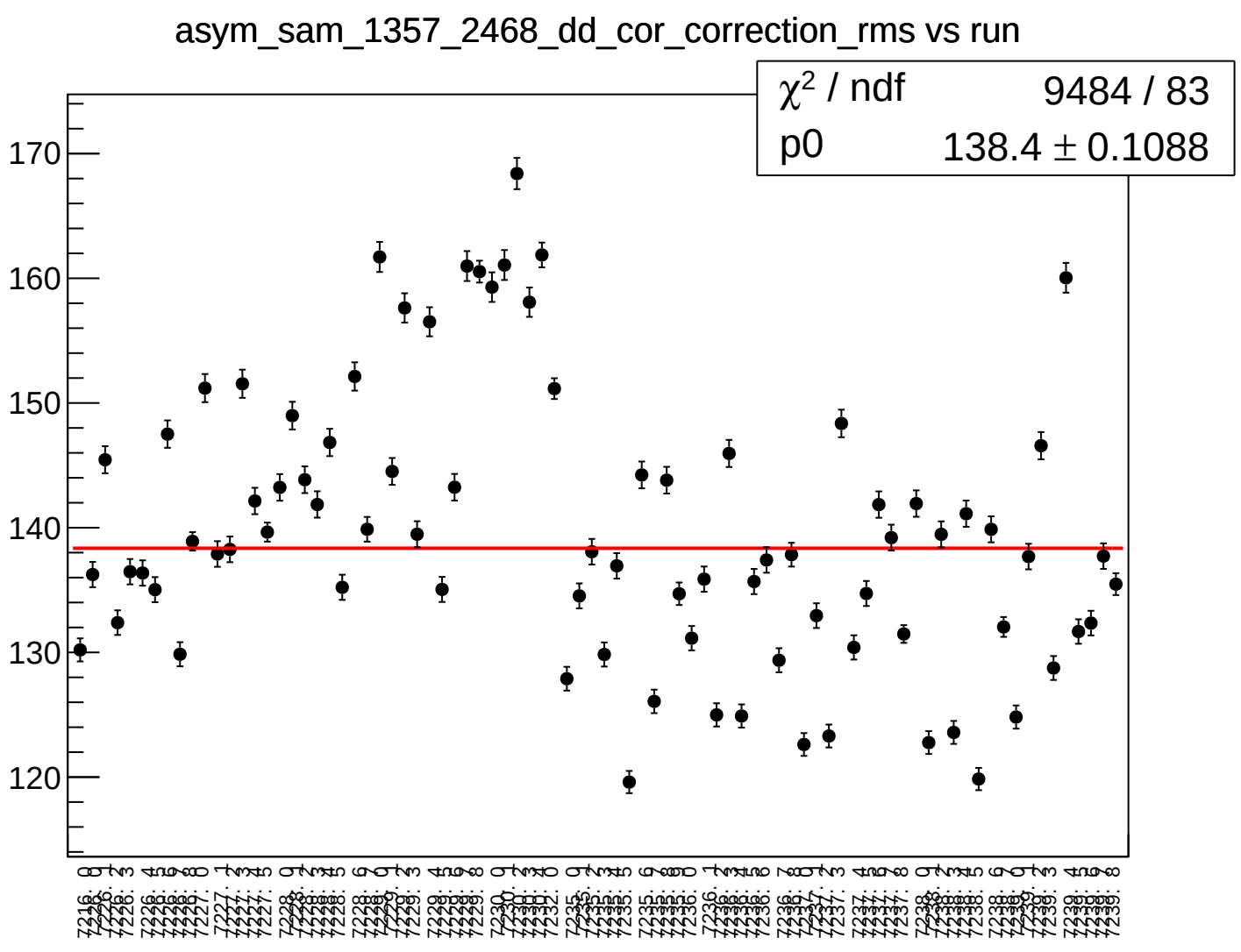

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 9483 / 83
p0 138.4 ± 0.1088
170
160
150
140
130
120

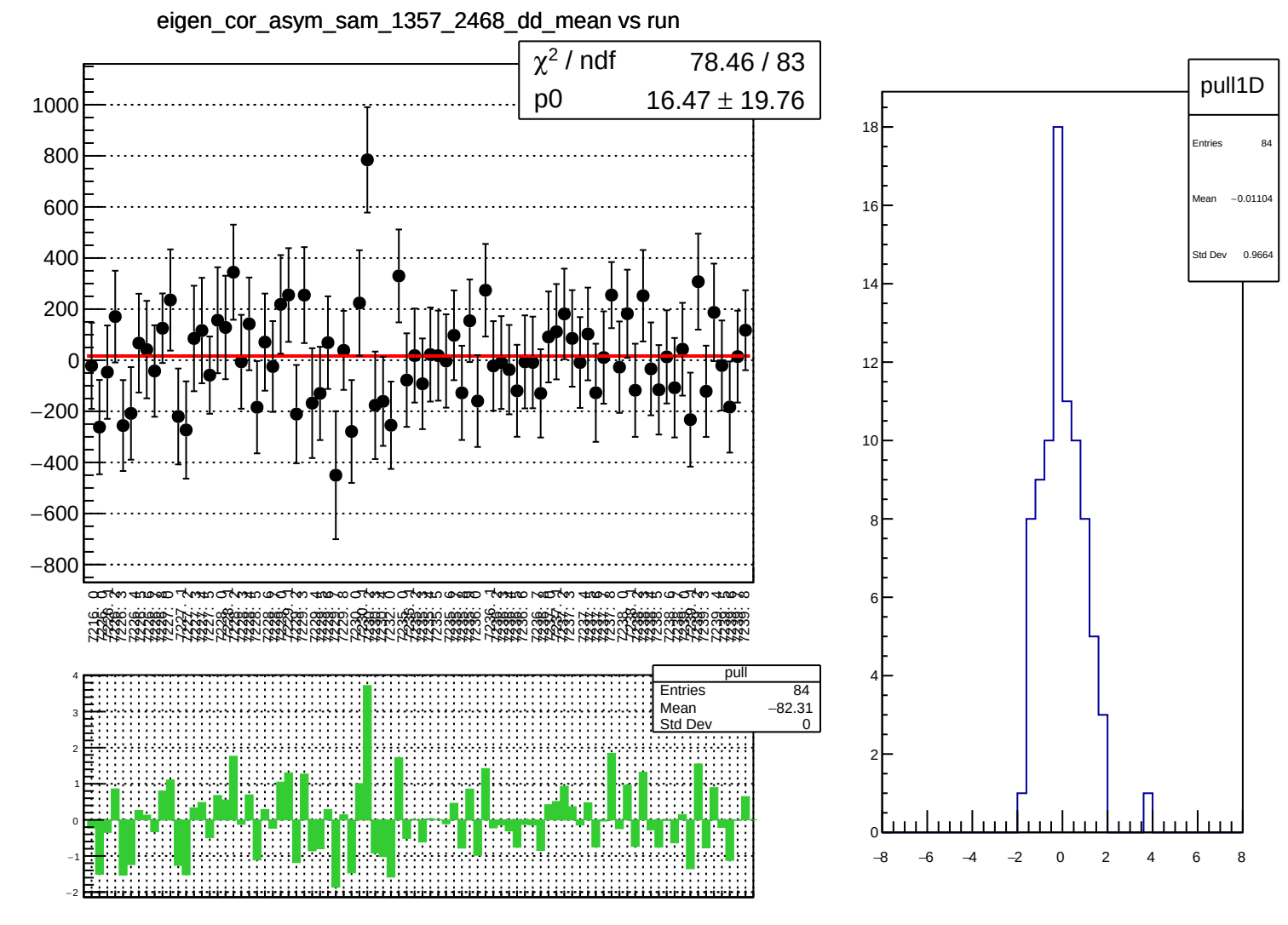

cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 78.46 / 83
p0 16.47 ± 19.76
pull
Entries 84
Mean −82.31
Std Dev 0
pull1D
Entries 84
Mean −0.01104
Std Dev 0.9664

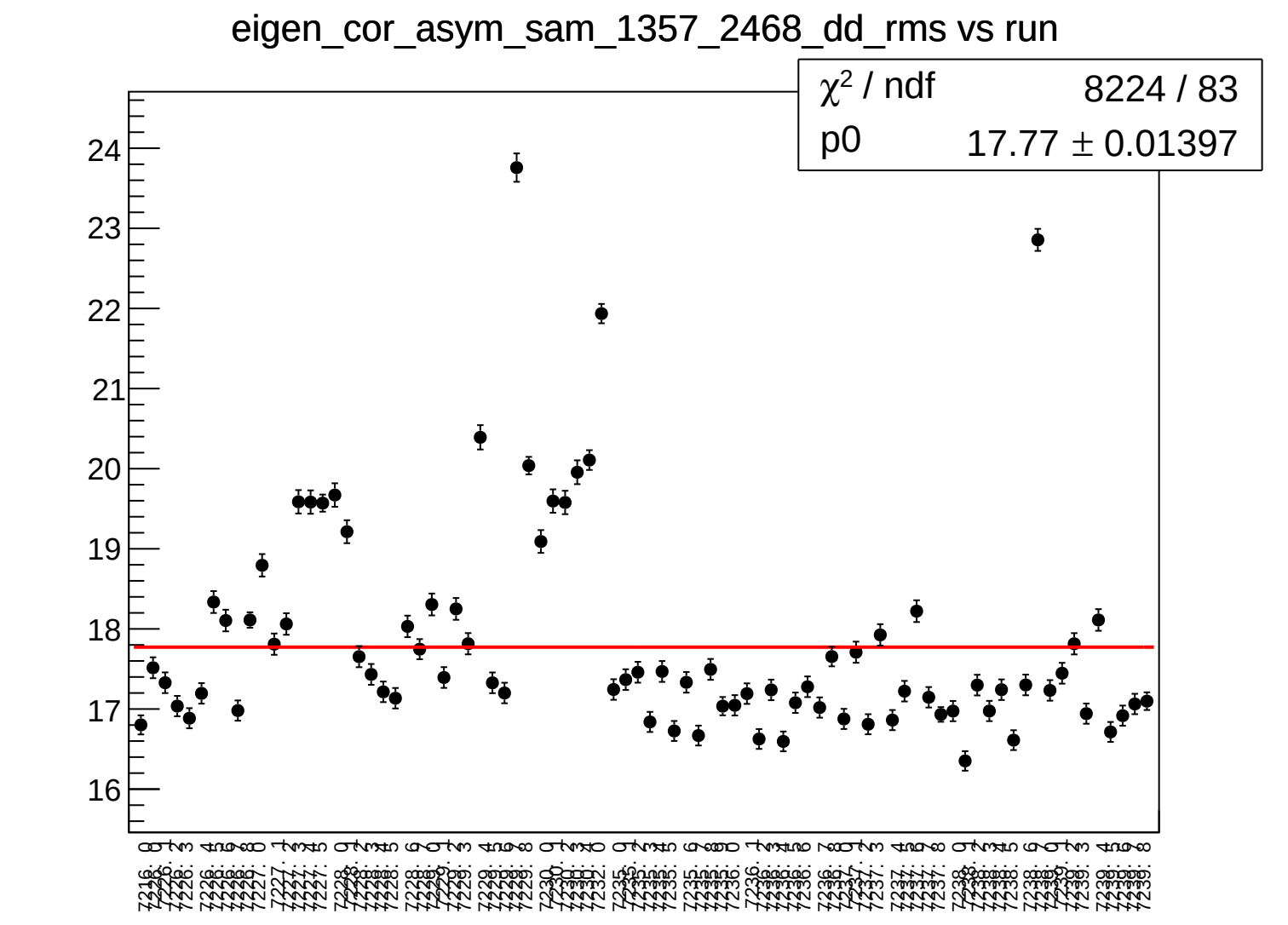

cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 8224 / 83
p0 17.77 ± 0.01397
24
23
22
21
20
19
18
17
16

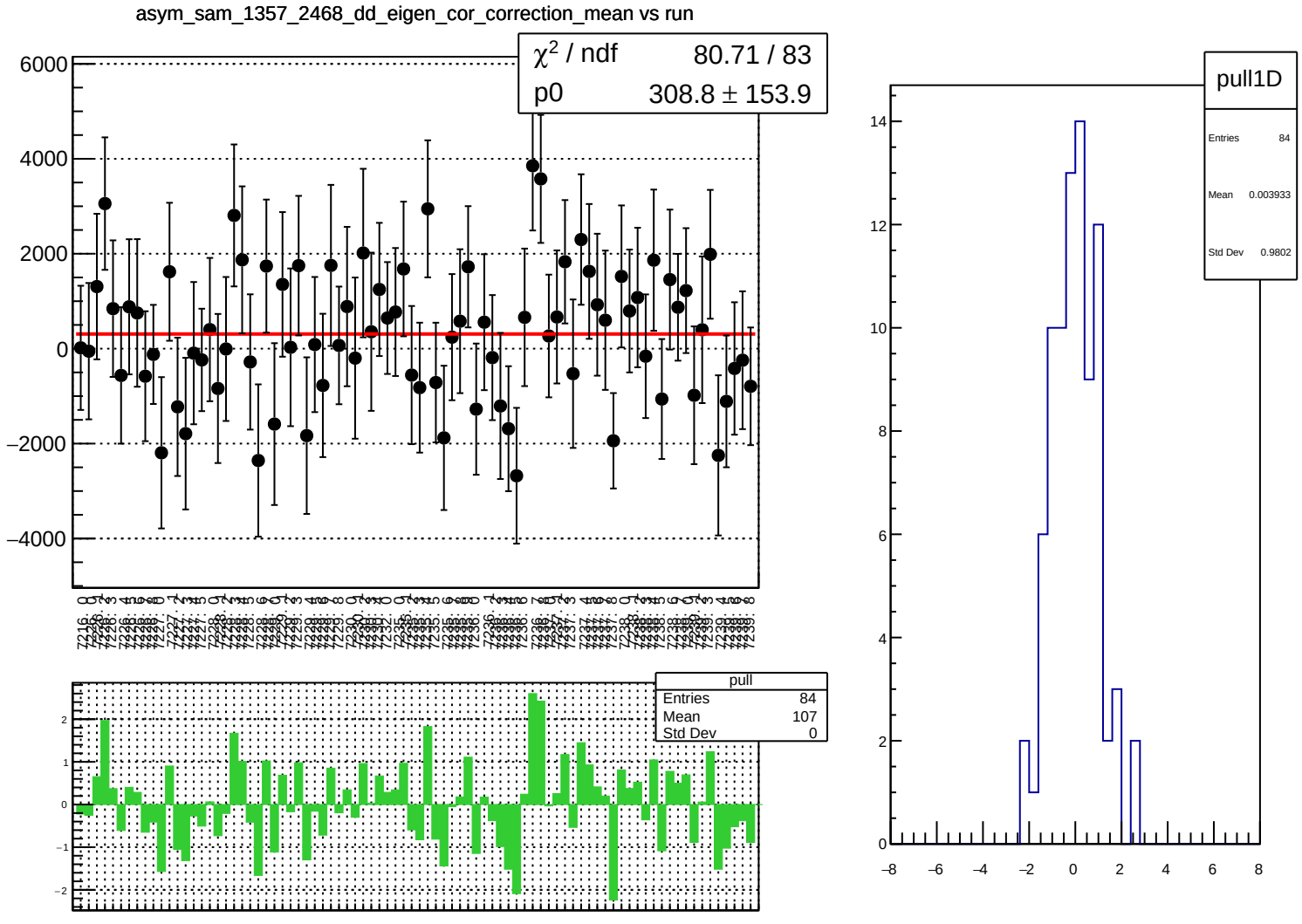

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 80.71 / 83
p0 308.8 ± 153.9
pull
Entries 84
Mean 107
Std Dev 0

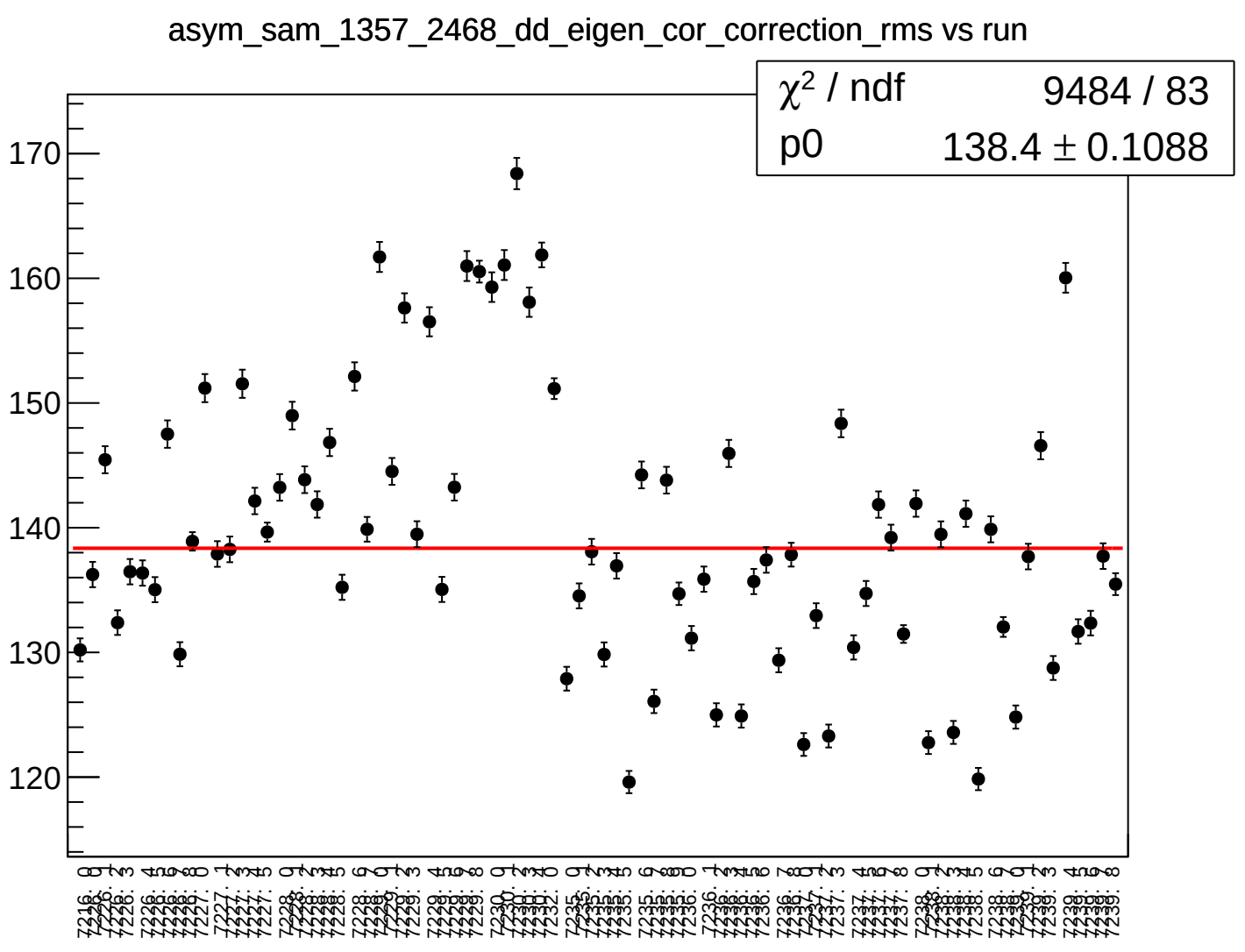

pull1D
Entries 84
Mean 0.003933
Std Dev 0.9802

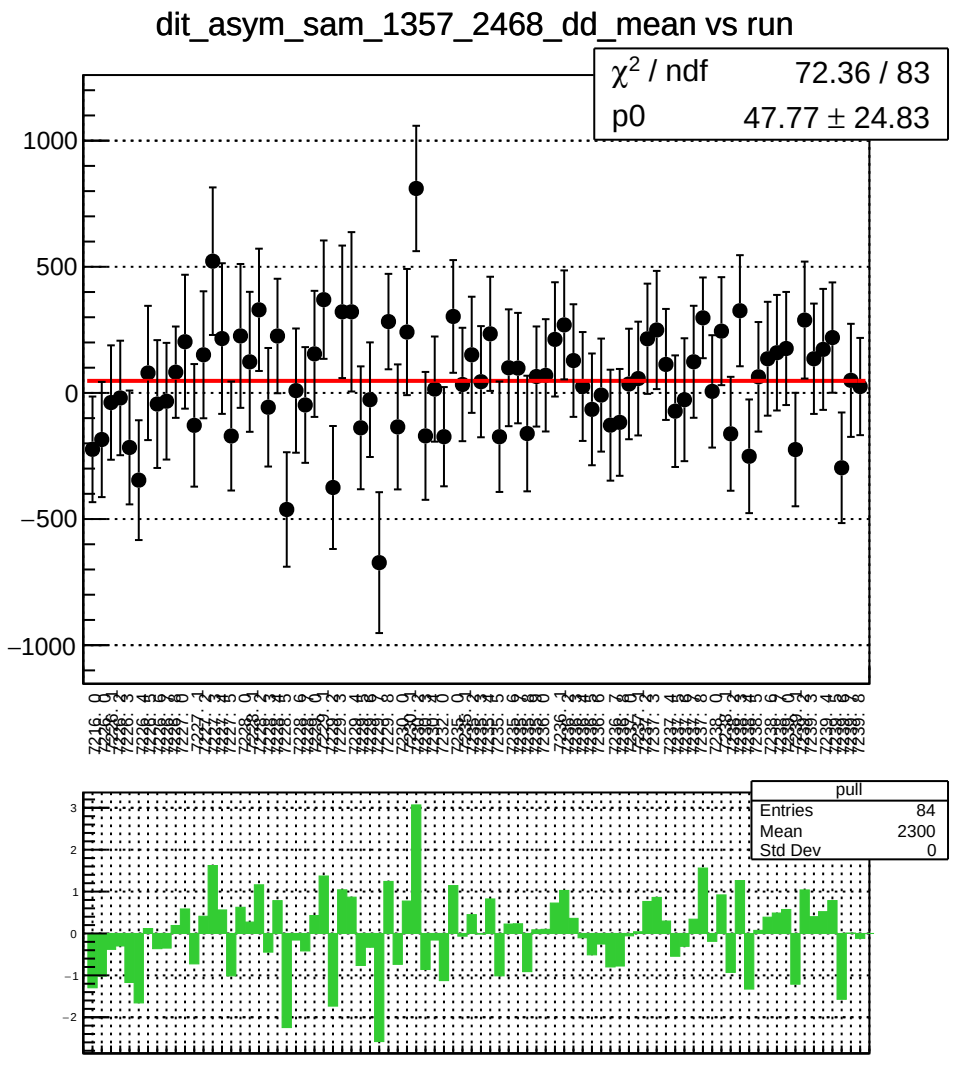

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 9484 / 83
p0 138.4 ± 0.1088
170
160
150
140
130
120

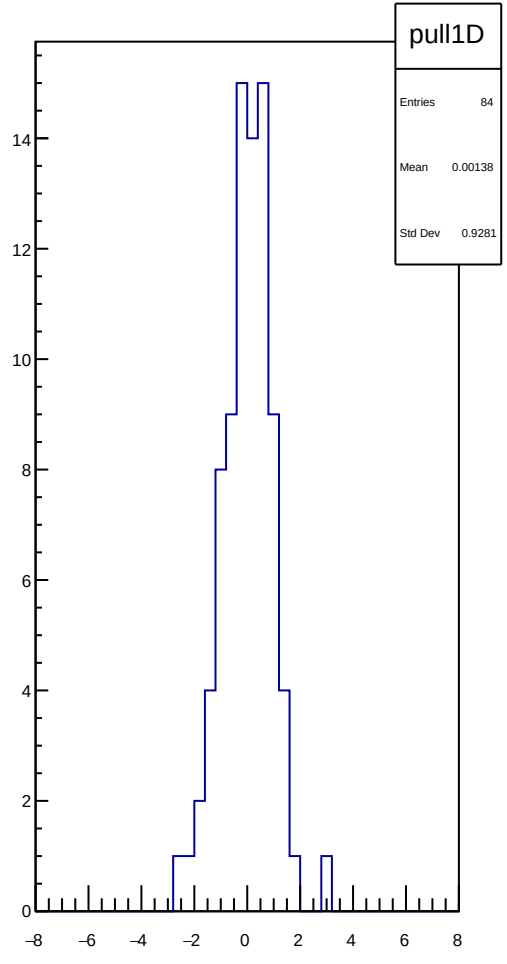

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 78.46 / 83
p0 16.47 ± 19.76
pull
Entries 84
Mean −82.31
Std Dev 0
pull1D
Entries 84
Mean −0.01104
Std Dev 0.9664

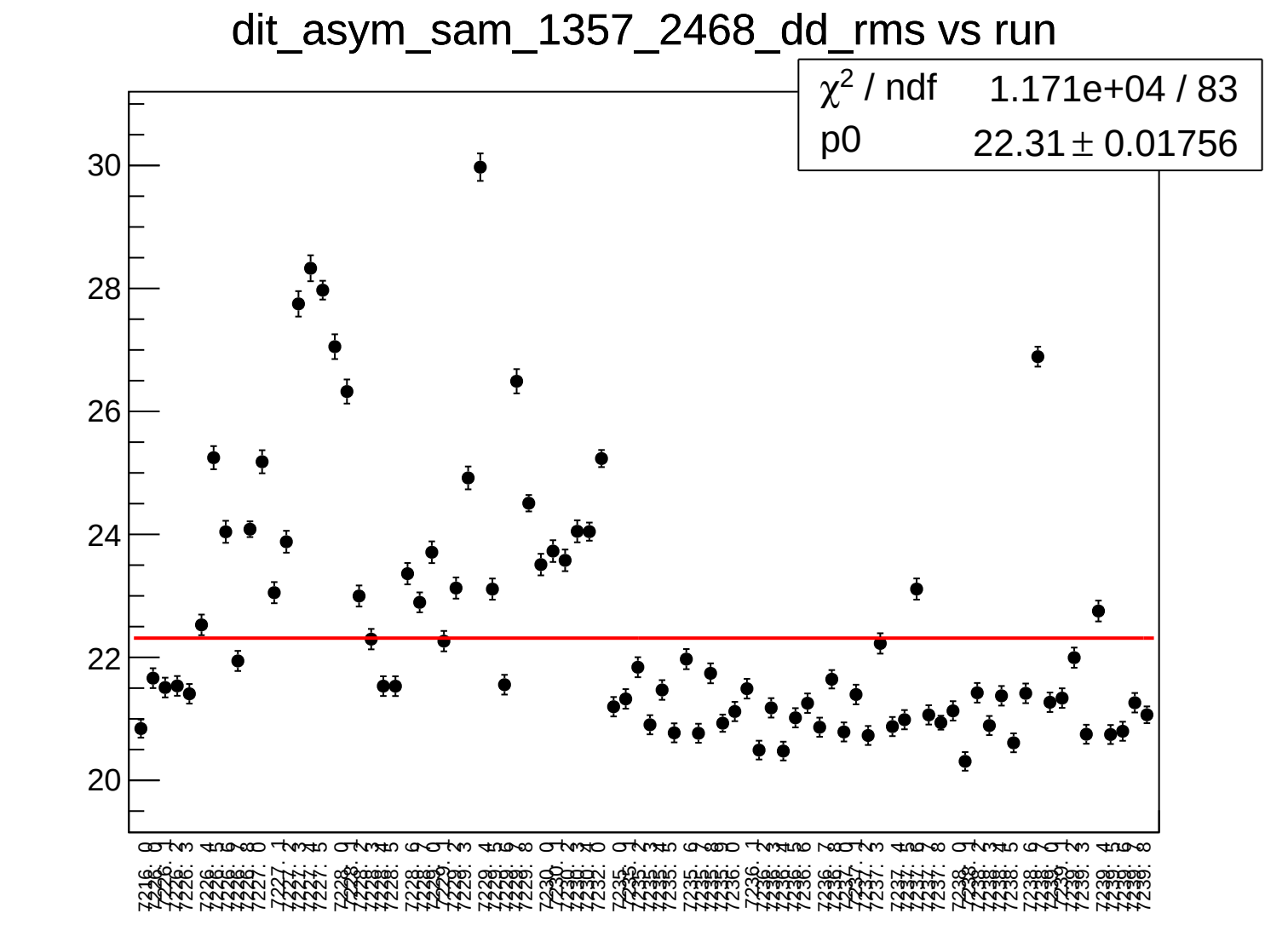

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 8224 / 83
p0 17.77 ± 0.01397
24
23
22
21
20
19
18
17
16

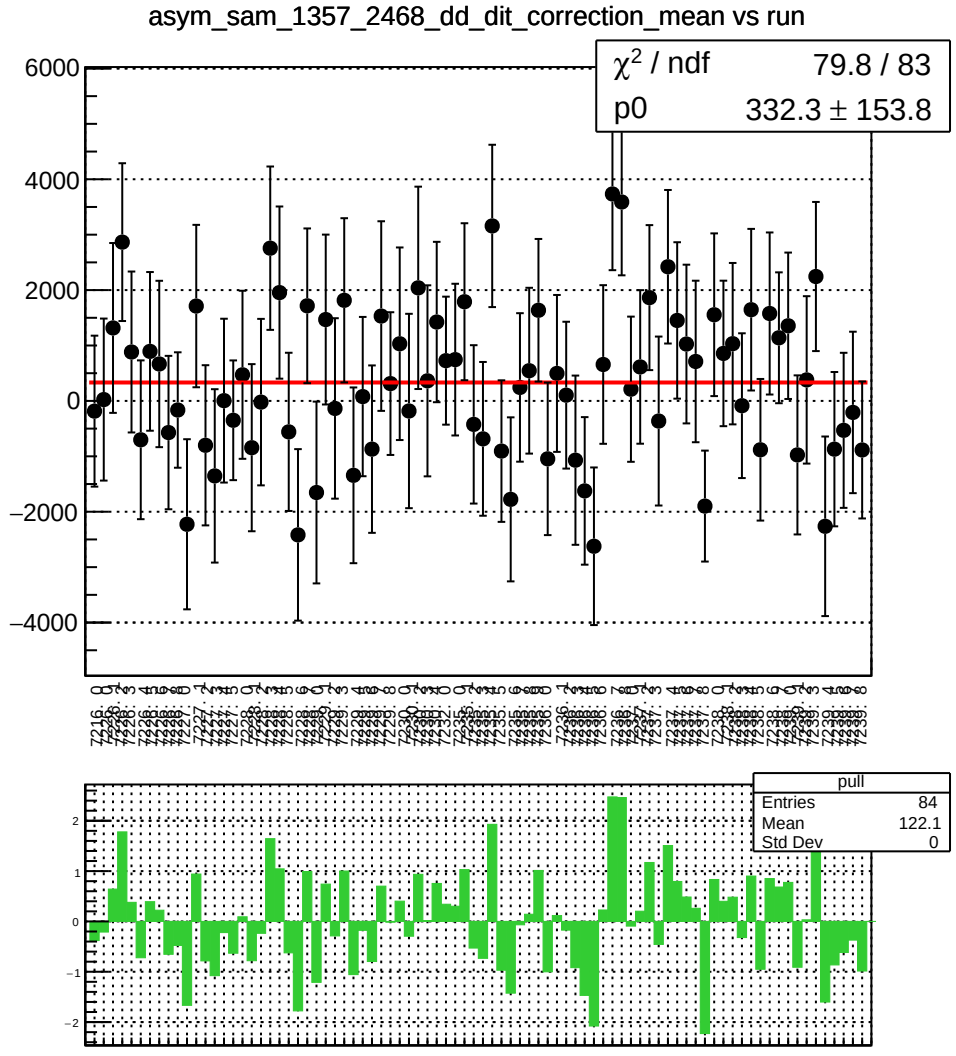

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 80.71 / 83
p0 308.8 ± 153.9
6000
4000
2000
0
−2000
−4000
pull
Entries 84
Mean 107
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.003933
Std Dev 0.9802
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

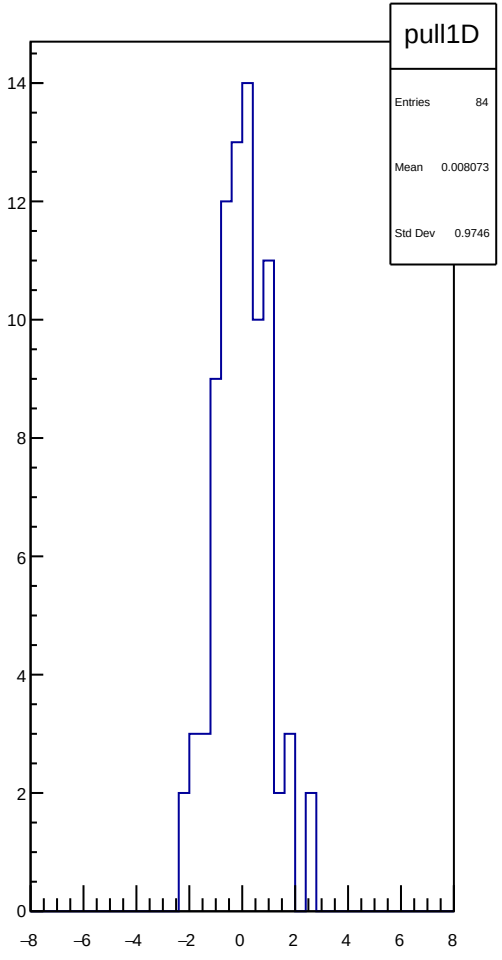

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 9484 / 83
p0 138.4 ± 0.1088
170
160
150
140
130
120

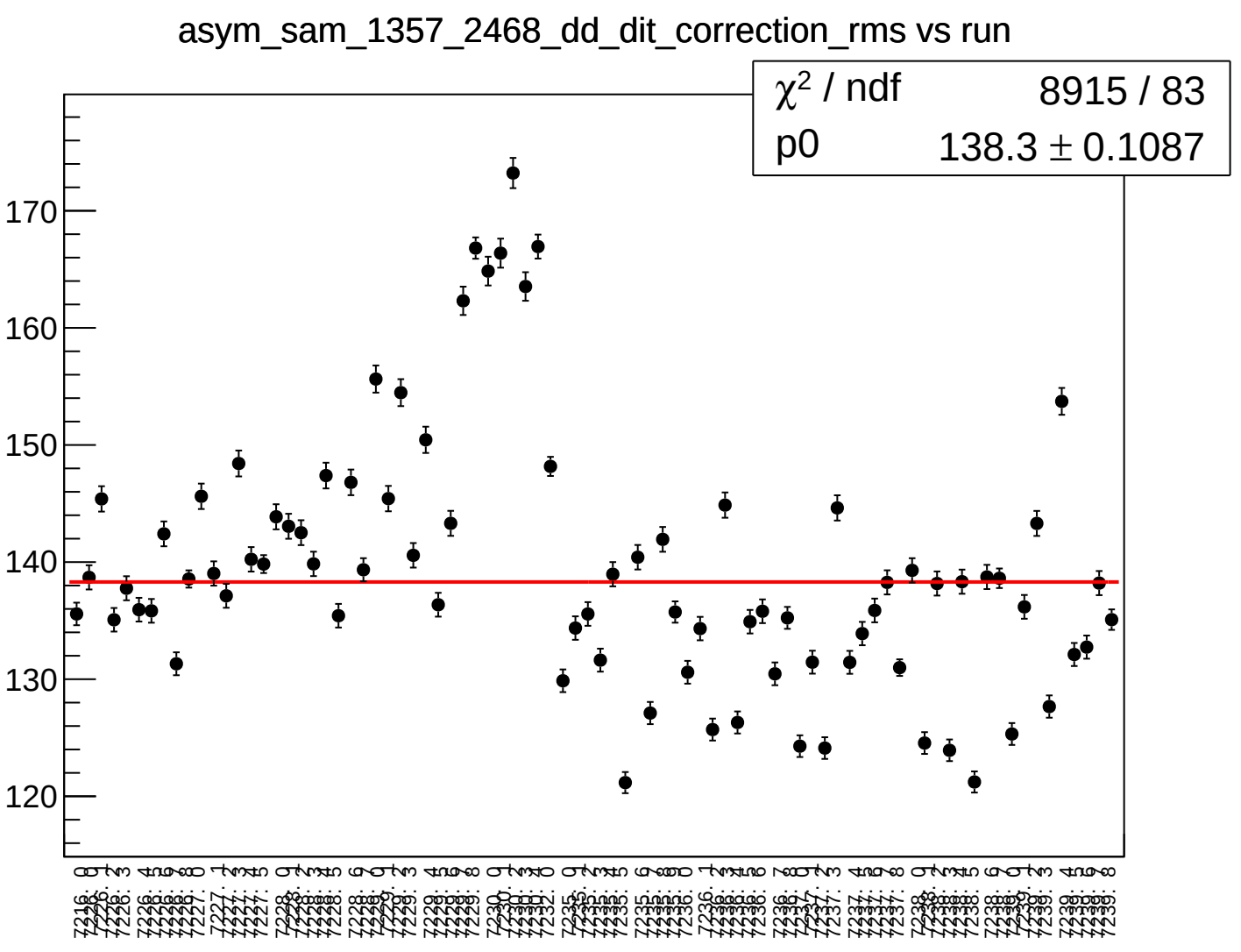

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 72.36 / 83
p0 47.77 ± 24.83
1000
500
0
−500
−1000
pull
Entries 84
Mean 2300
Std Dev 0
3
2
1
0
−1
−2

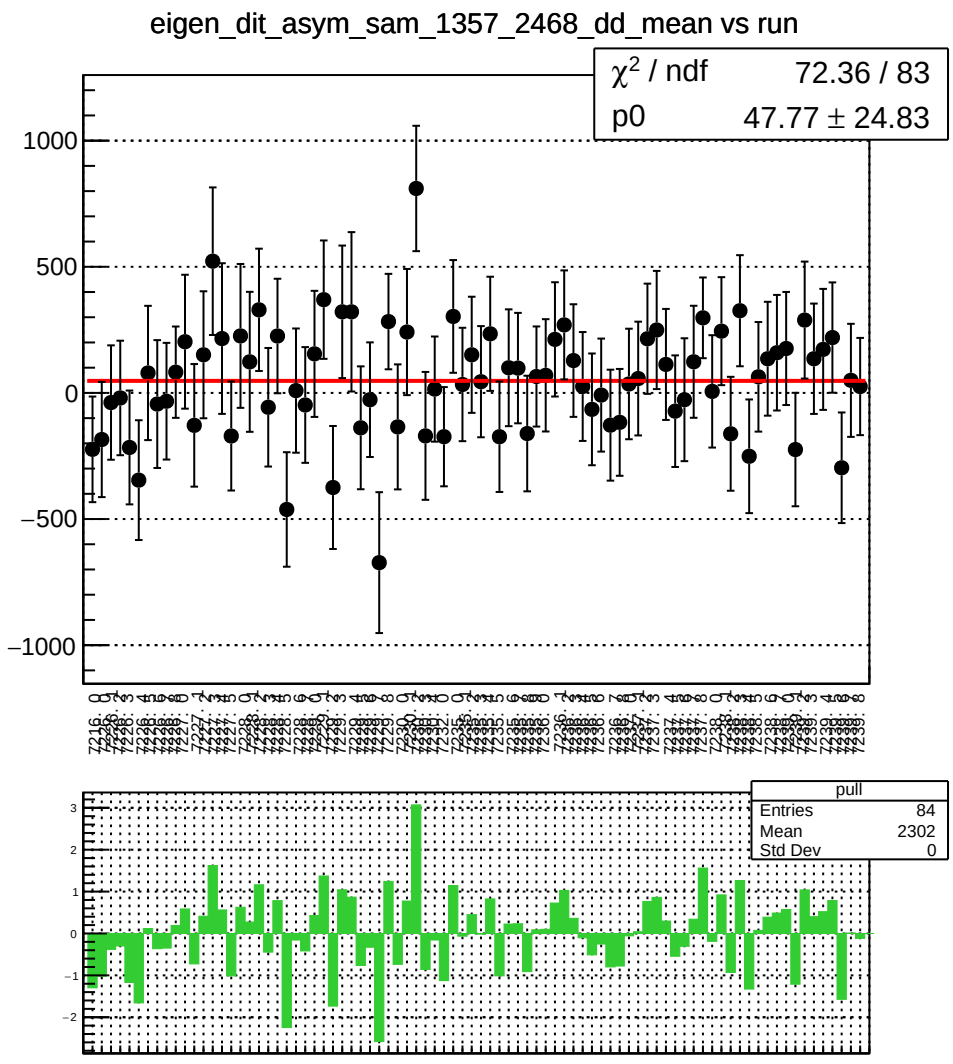

pull1D
Entries 84
Mean 0.00138
Std Dev 0.9281
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

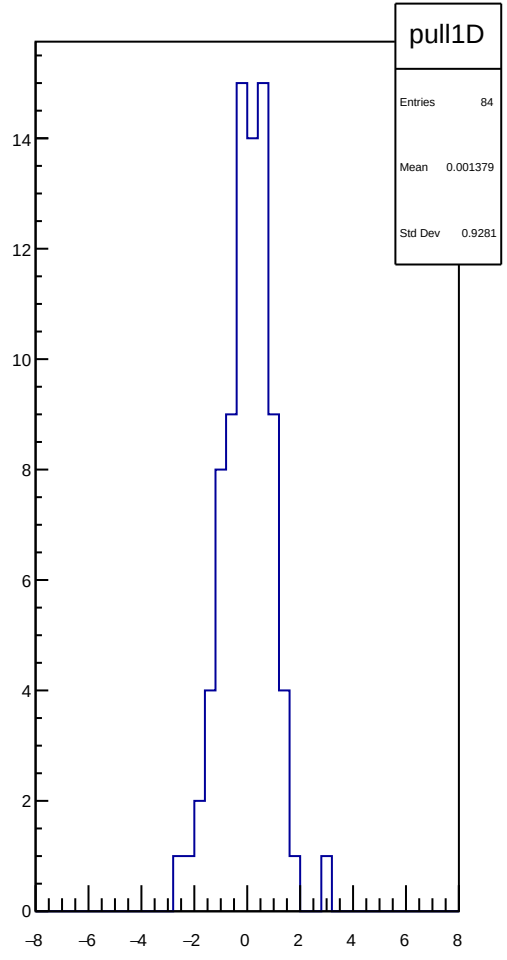

dit_asym_sam_1357_2468_dd_rms vs run
χ^2 / ndf 1.171e+04 / 83
p0 22.31 ± 0.01756
30
28
26
24
22
20

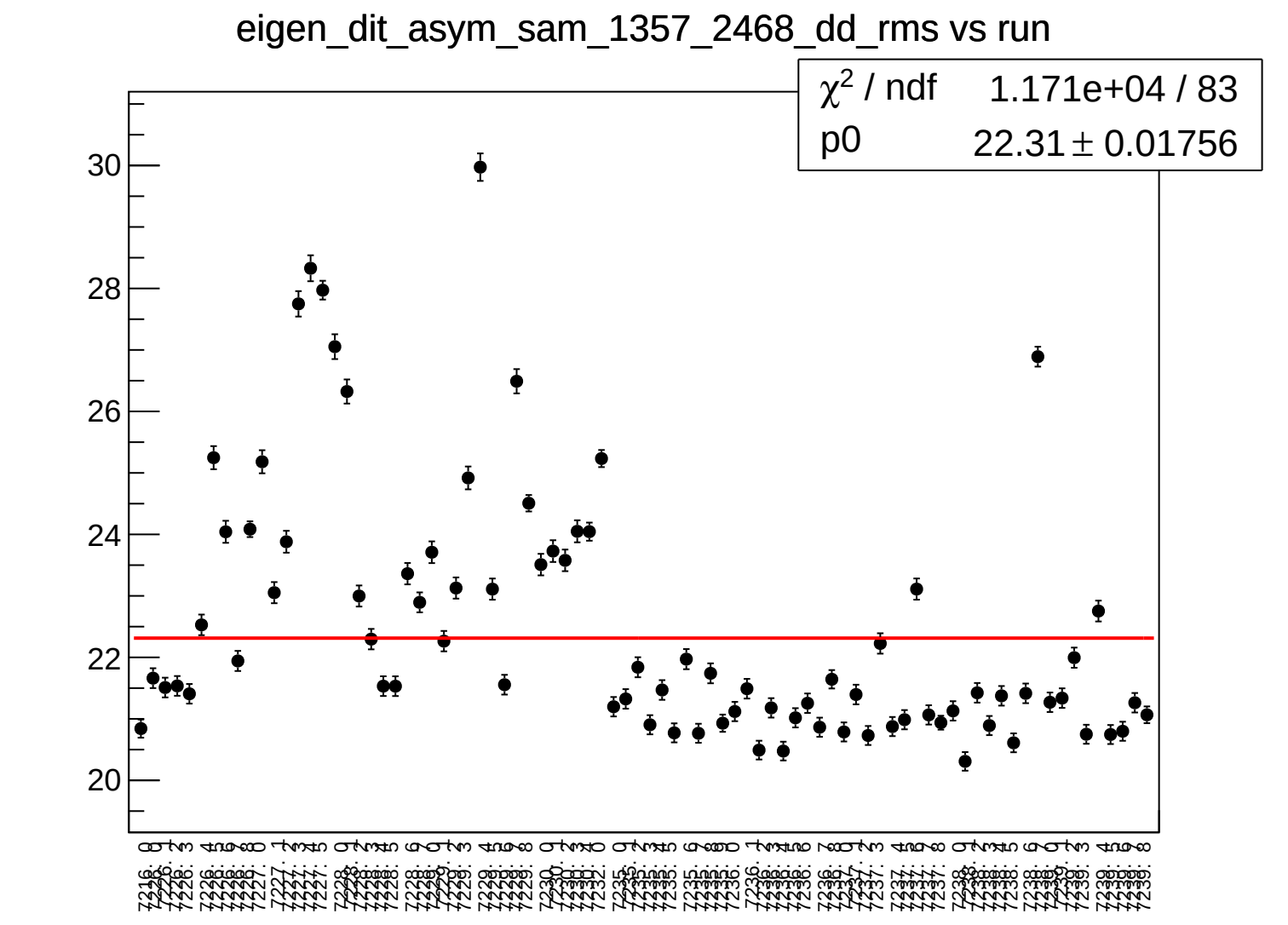

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ^2 / ndf 79.8 / 83
p0 332.3 ± 153.8
6000
4000
2000
0
−2000
−4000
pull
Entries 84
Mean 122.1
Std Dev 0
2
1
0
−1
−2

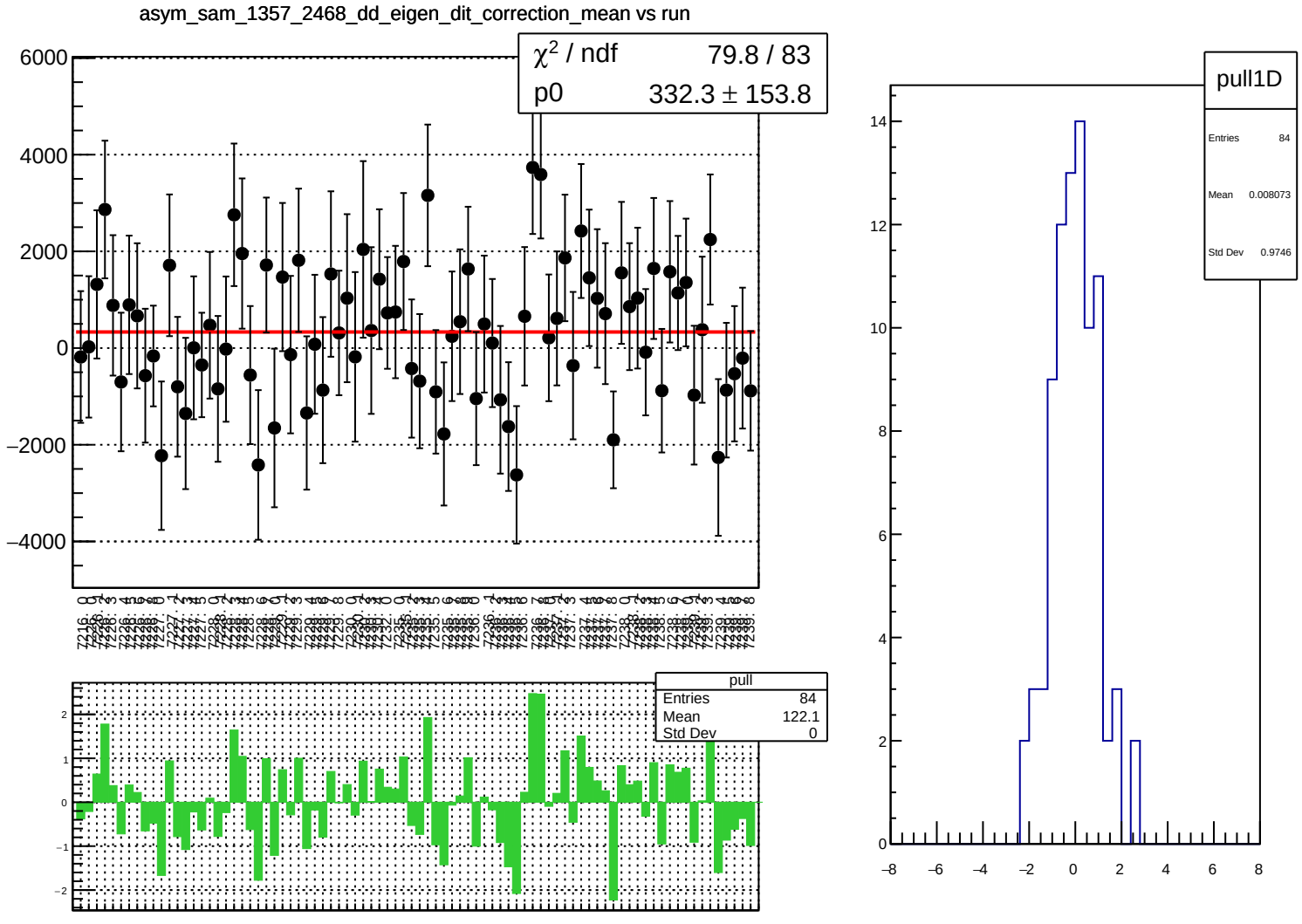

pull1D
Entries 84
Mean 0.008073
Std Dev 0.9746
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

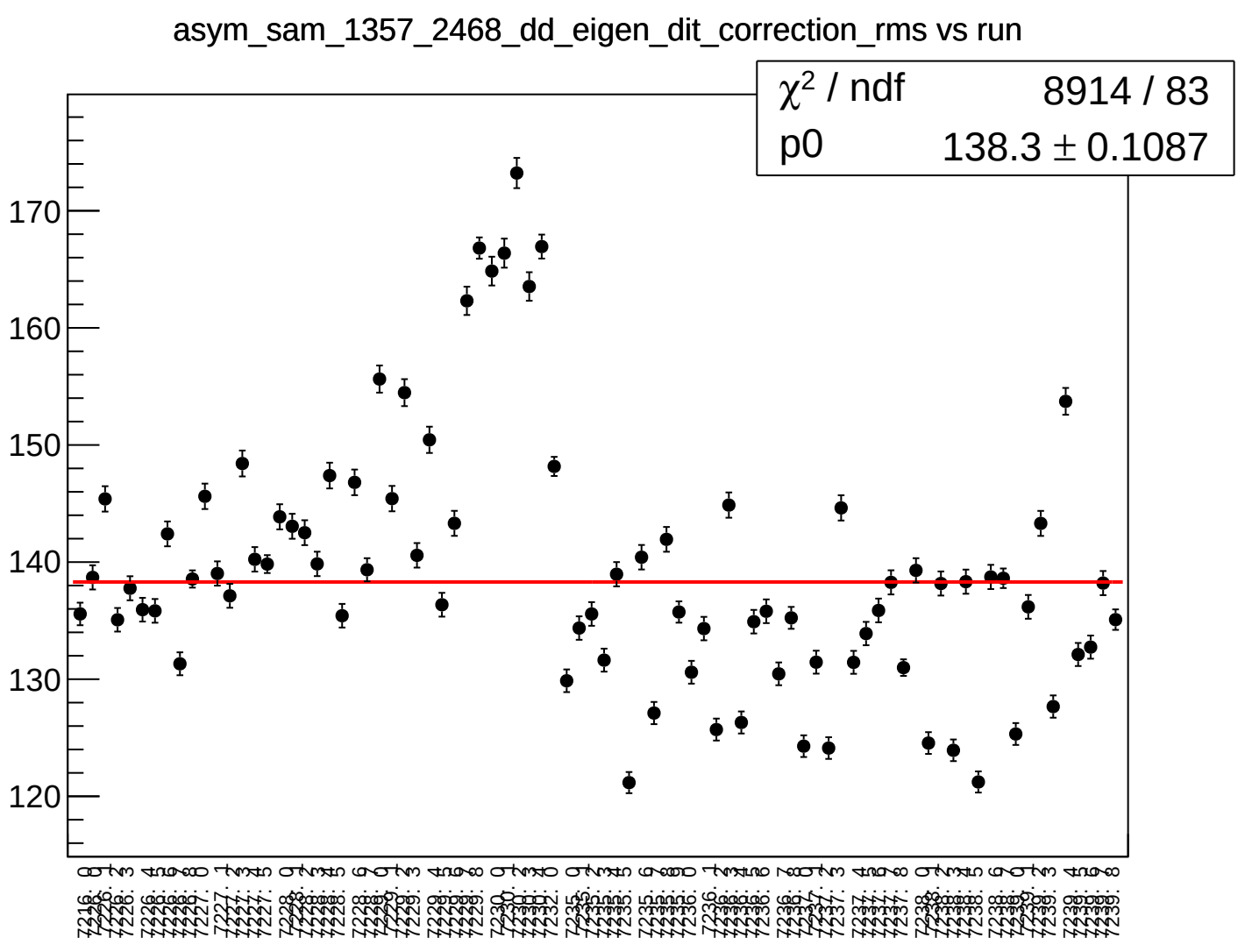

asym_sam_1357_2468_dd_dit_correction_rms vs run
χ^2 / ndf 8915 / 83
p0 138.3 ± 0.1087
170
160
150
140
130
120

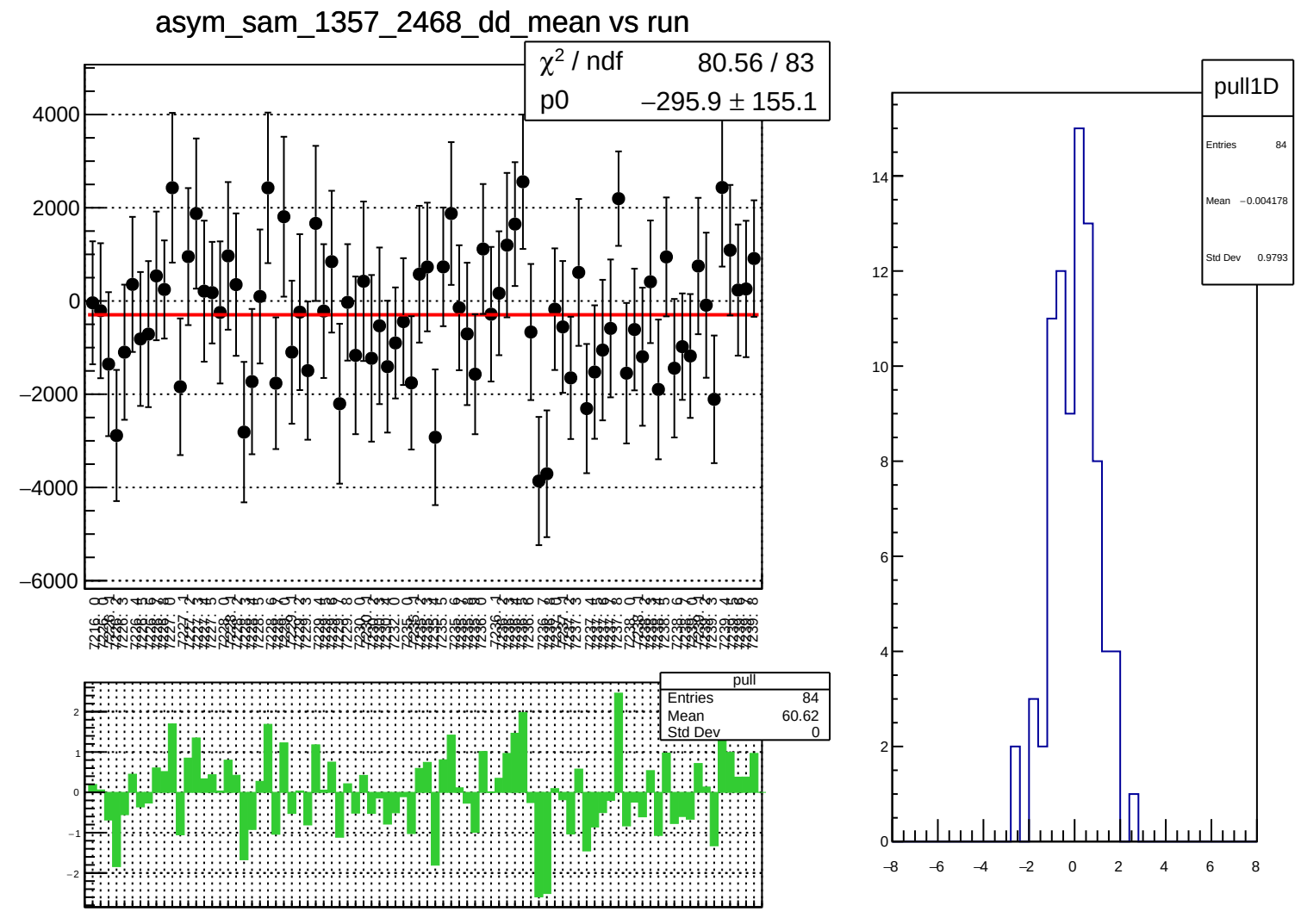

eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 72.36 / 83
p0 47.77 ± 24.83
1000
500
0
−500
−1000
pull
Entries 84
Mean 2302
Std Dev 0
3
2
1
0
−1
−2

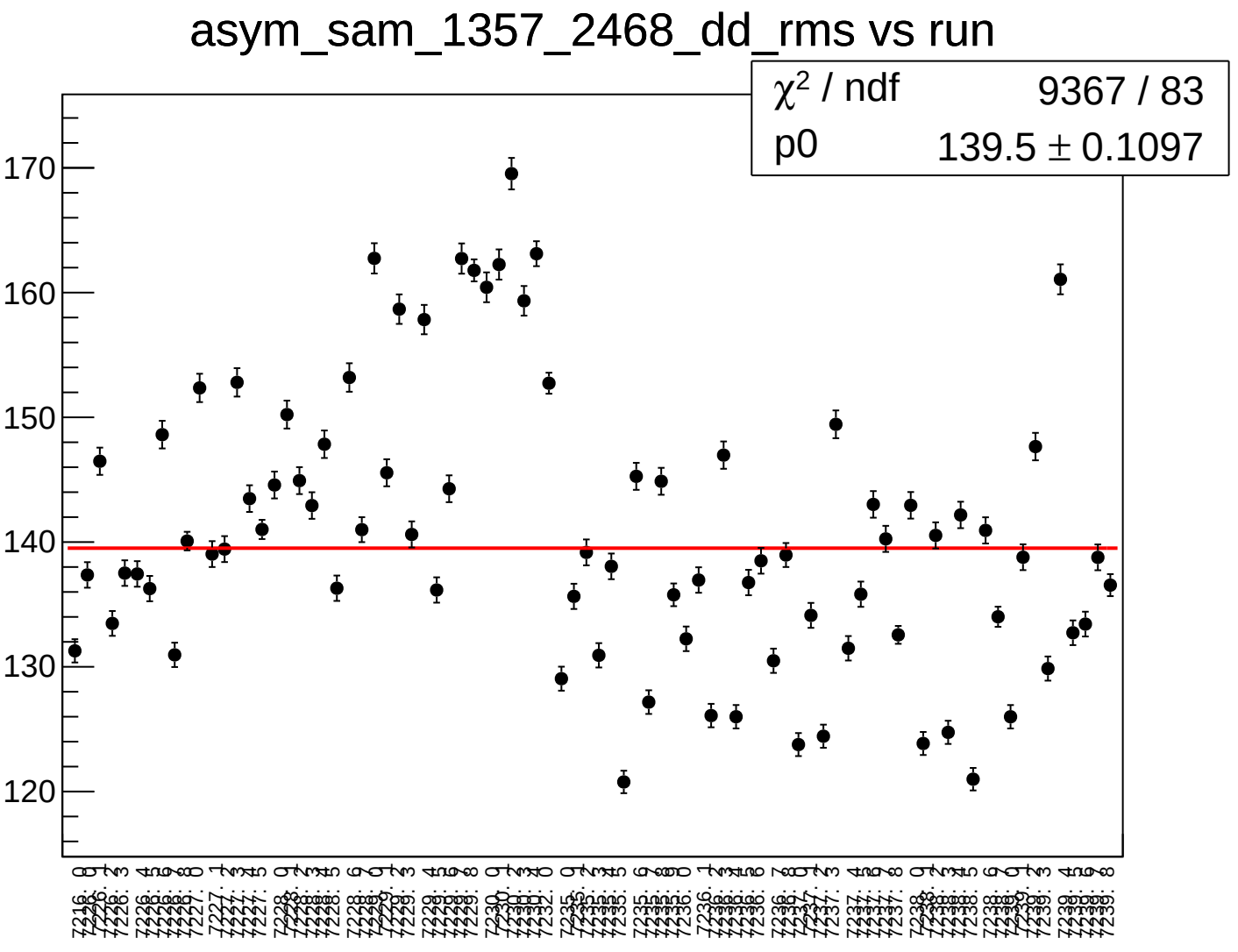

pull1D
Entries 84
Mean 0.001379
Std Dev 0.9281
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

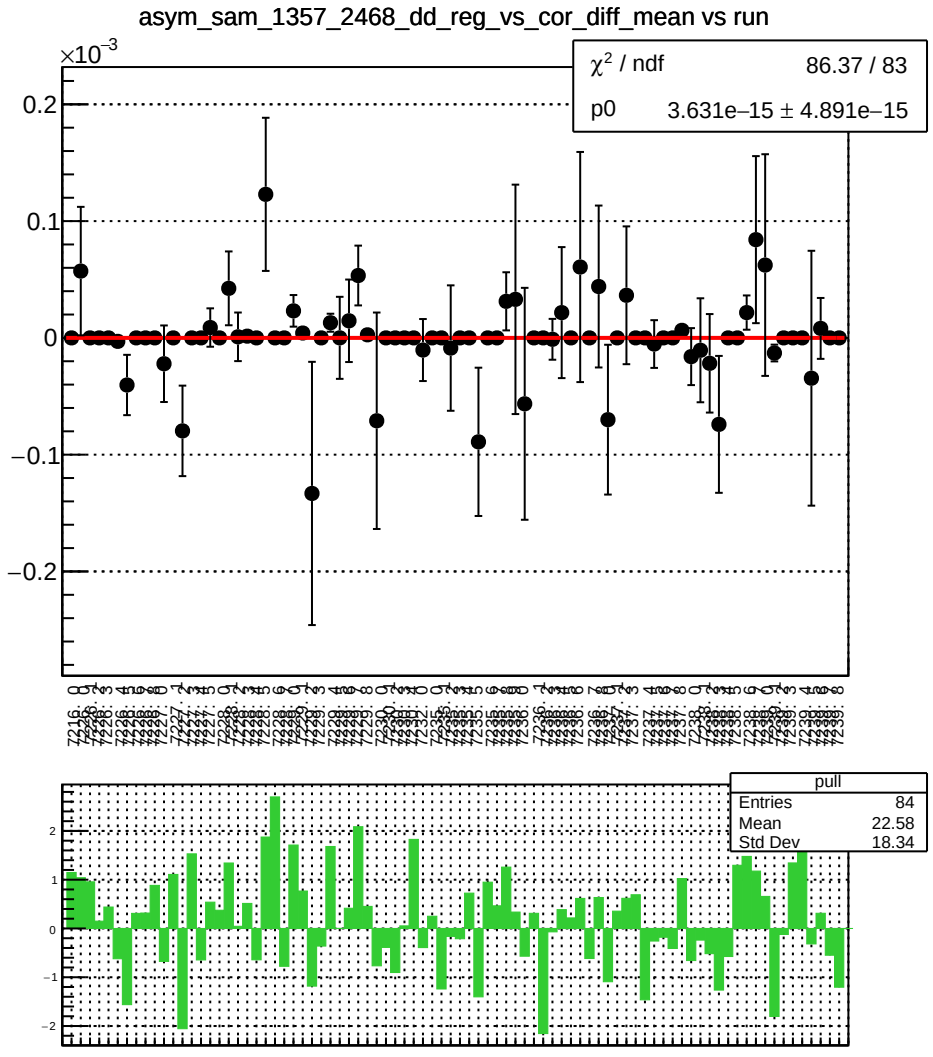

eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.171e+04 / 83
p0 22.31 ± 0.01756
30
28
26
24
22
20

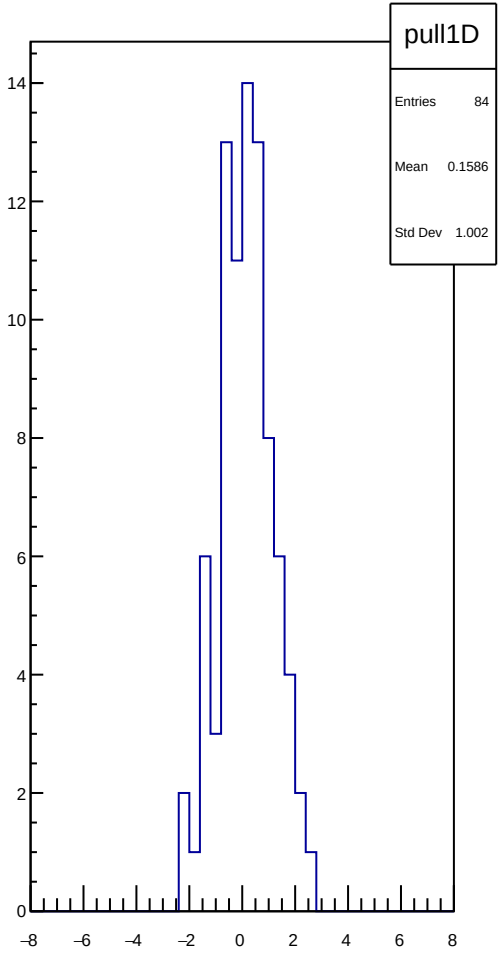

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 79.8 / 83
p0 332.3 ± 153.8
6000
4000
2000
0
−2000
−4000
pull
Entries 84
Mean 122.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.008073
Std Dev 0.9746
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

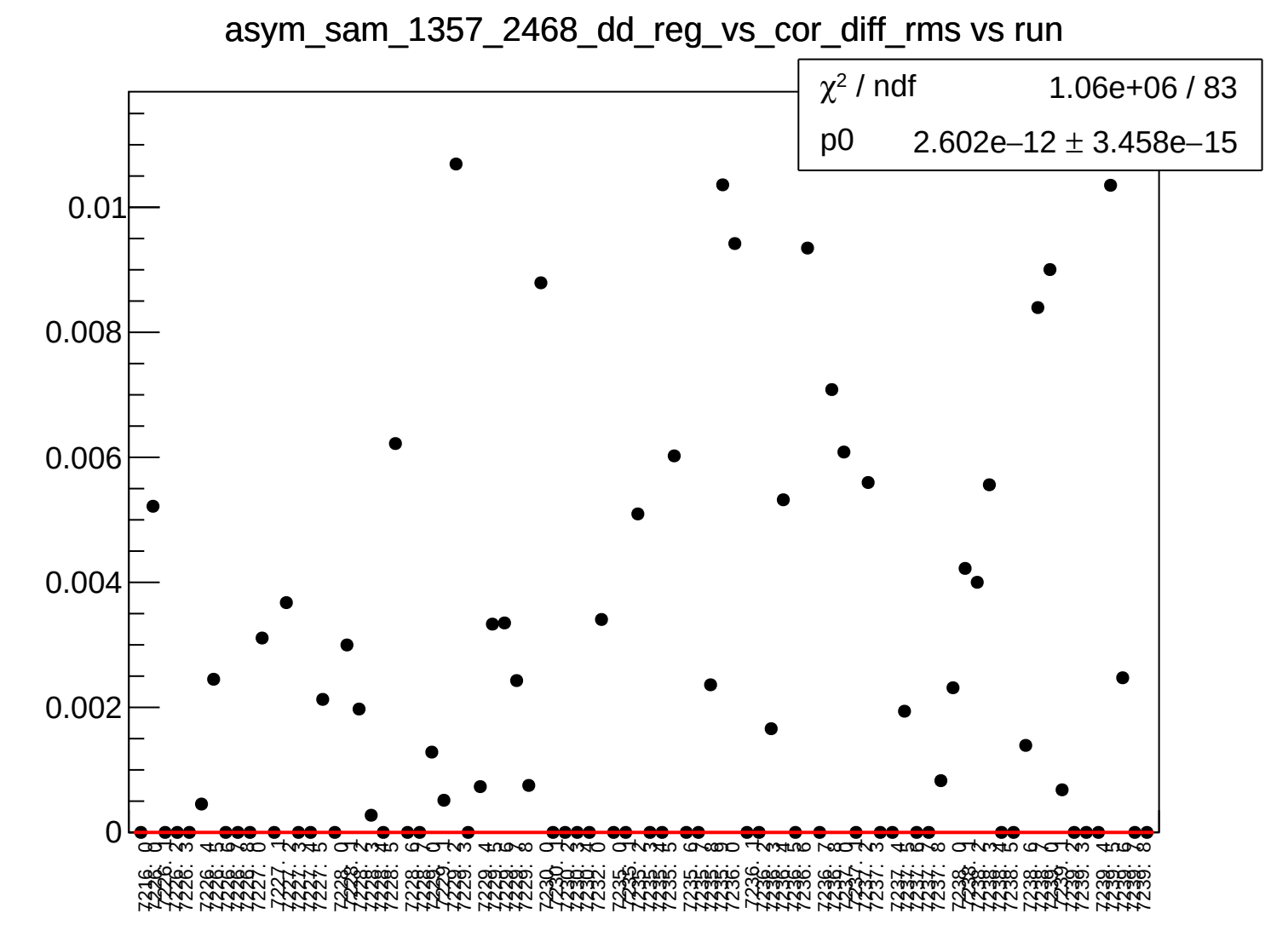

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 8914 / 83
p0 138.3 ± 0.1087
170
160
150
140
130
120

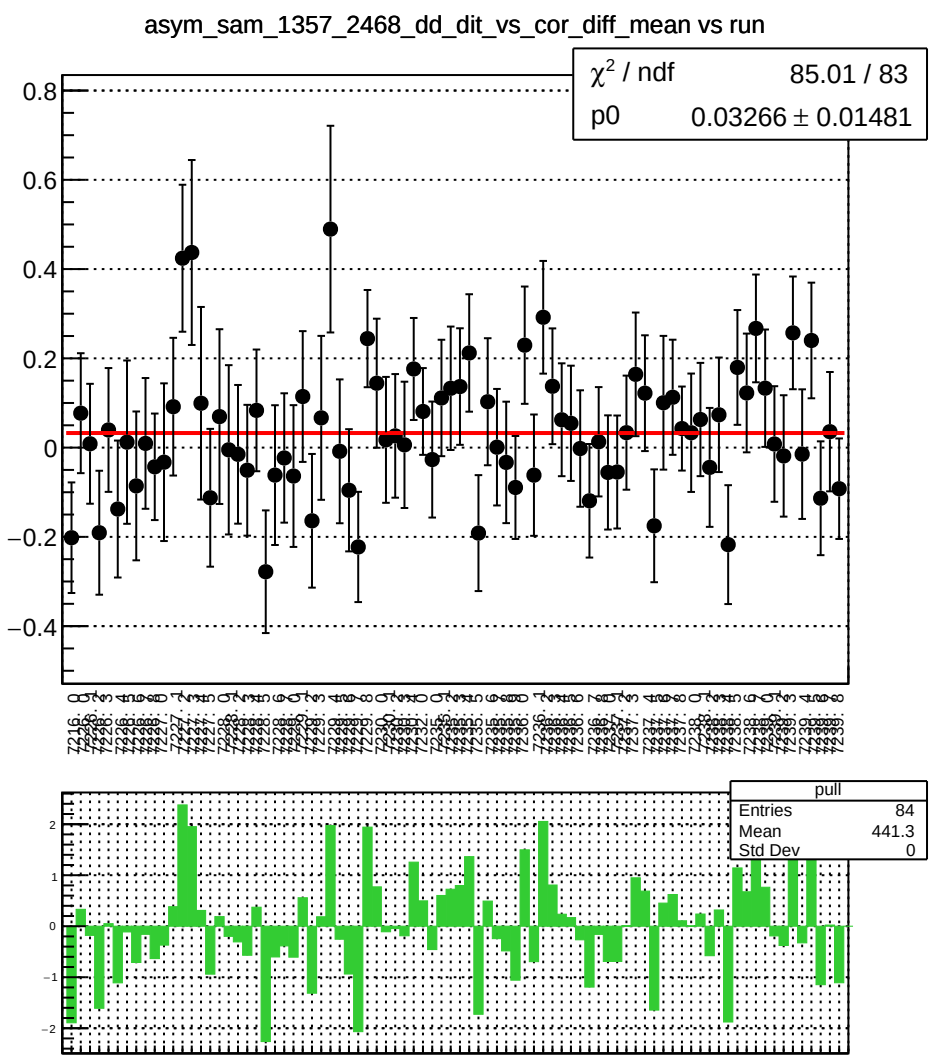

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 80.56 / 83
p0 −295.9 ± 155.1
4000
2000
0
−2000
−4000
−6000
pull
Entries 84
Mean 60.62
Std Dev 0
pull1D
Entries 84
Mean −0.004178
Std Dev 0.9793

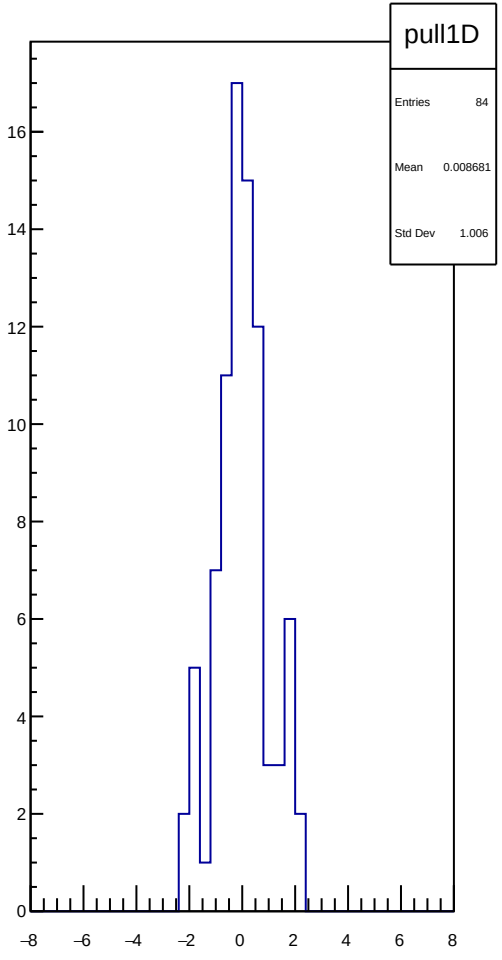

asym_sam_1357_2468_dd_rms vs run
χ^2 / ndf 9367 / 83
p0 139.5 ± 0.1097
170
160
150
140
130
120

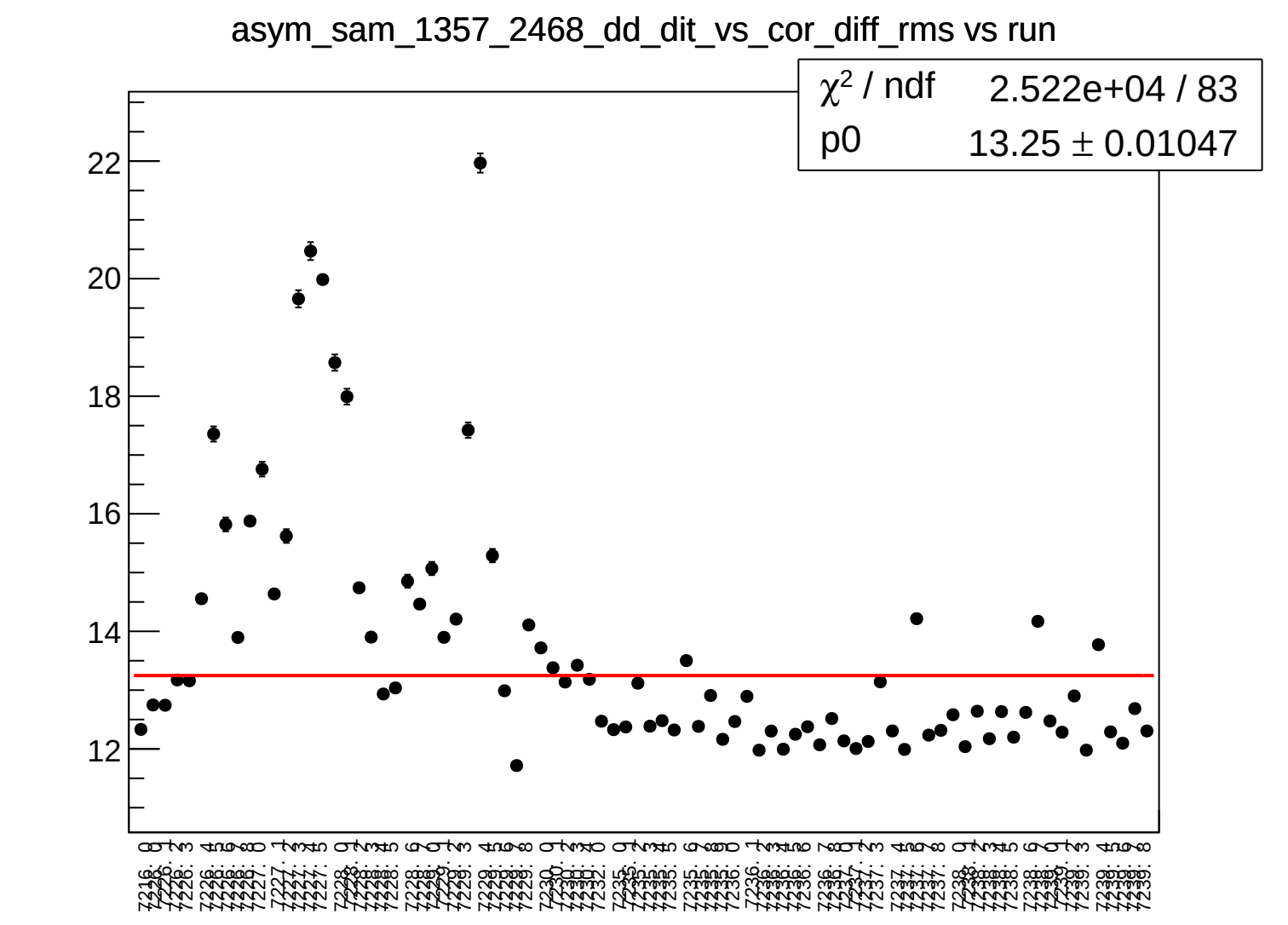

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 86.37 / 83
p0 3.631e−15 ± 4.891e−15
0.2
0.1
0
−0.1
−0.2
pull
Entries 84
Mean 22.58
Std Dev 18.34
2
1
0
−1
−2

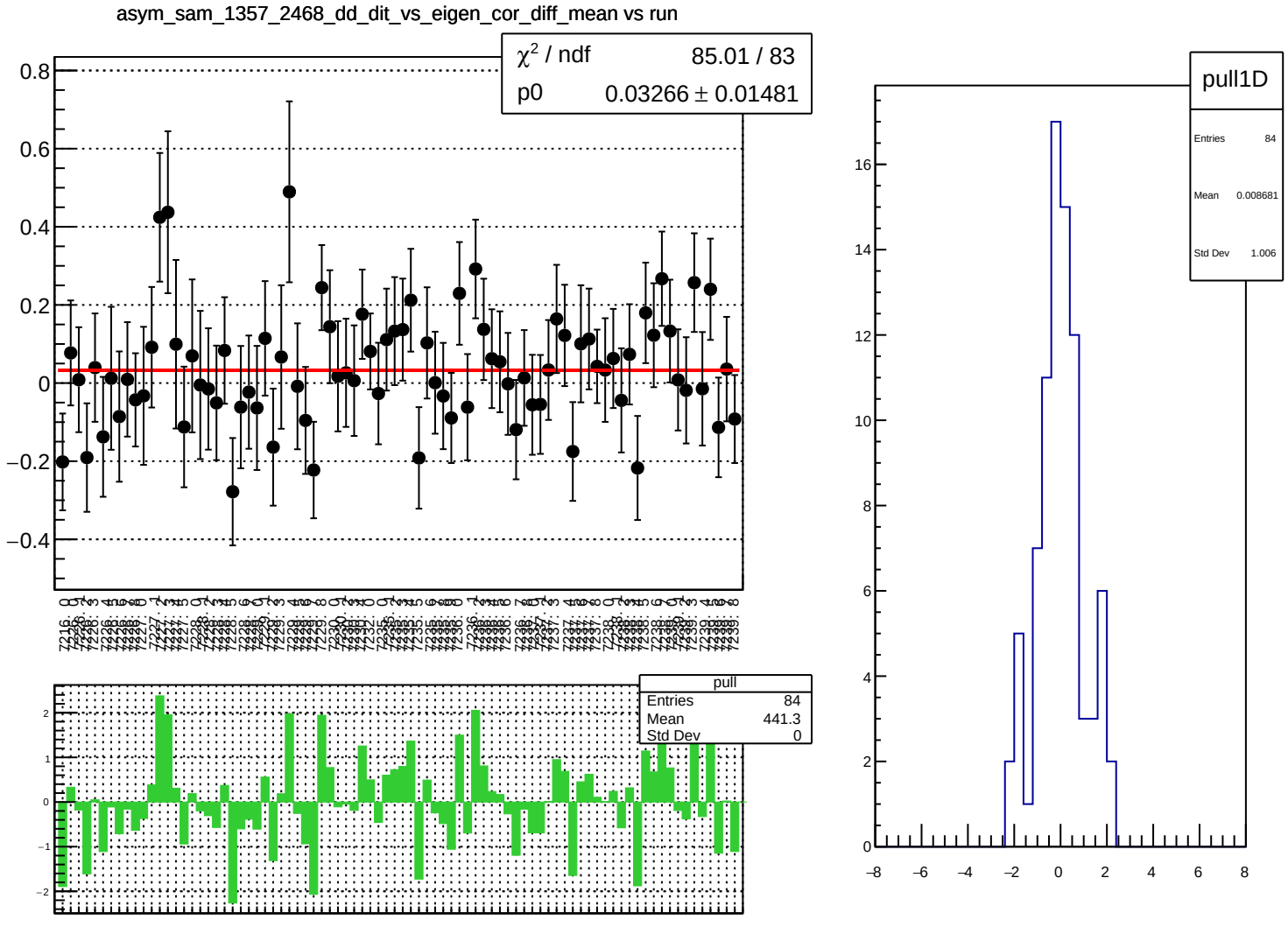

pull1D
Entries 84
Mean 0.1586
Std Dev 1.002
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

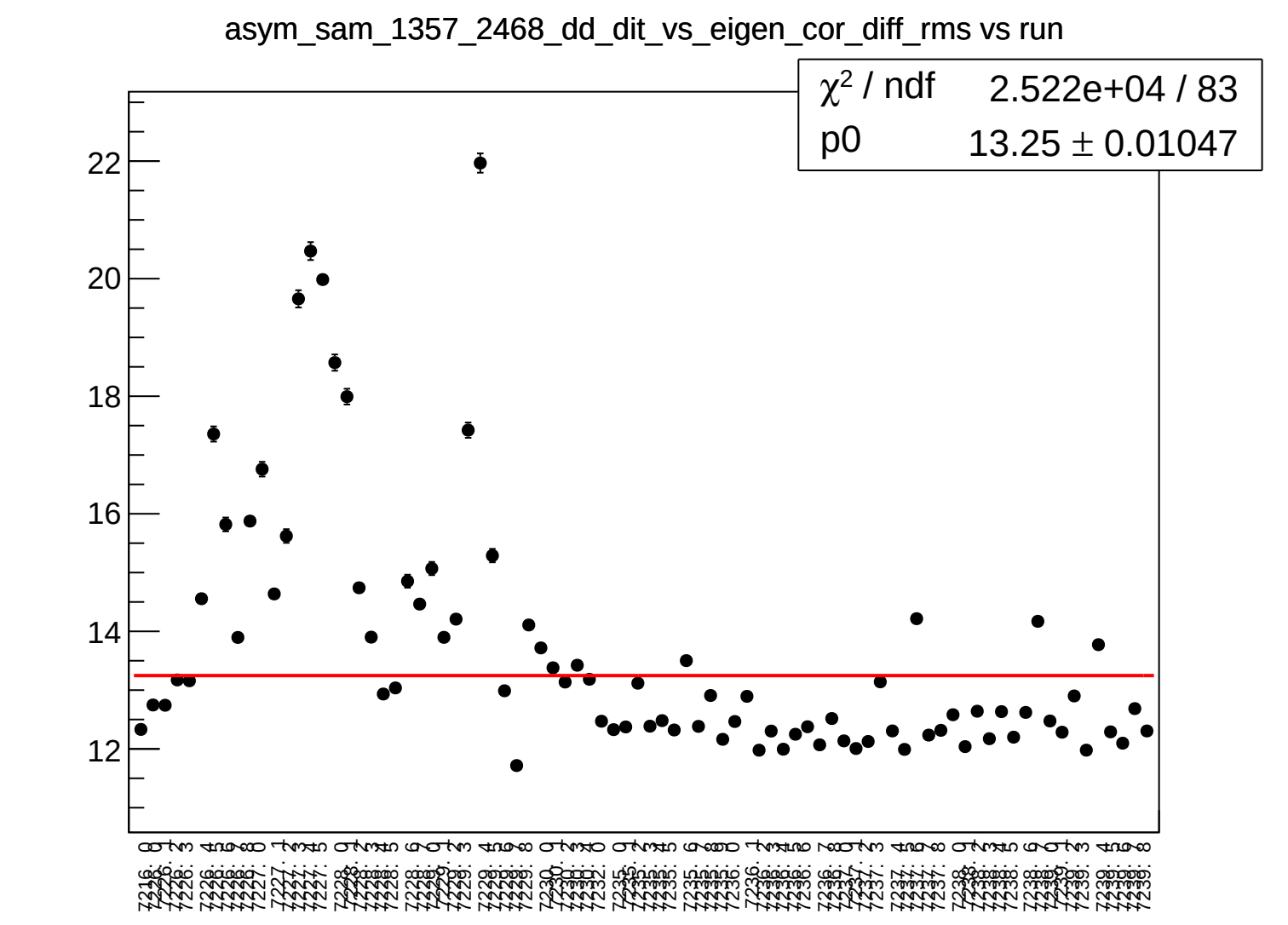

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.06e+06 / 83
p0 2.602e−12 ± 3.458e−15
0.01
0.008
0.006
0.004
0.002
0

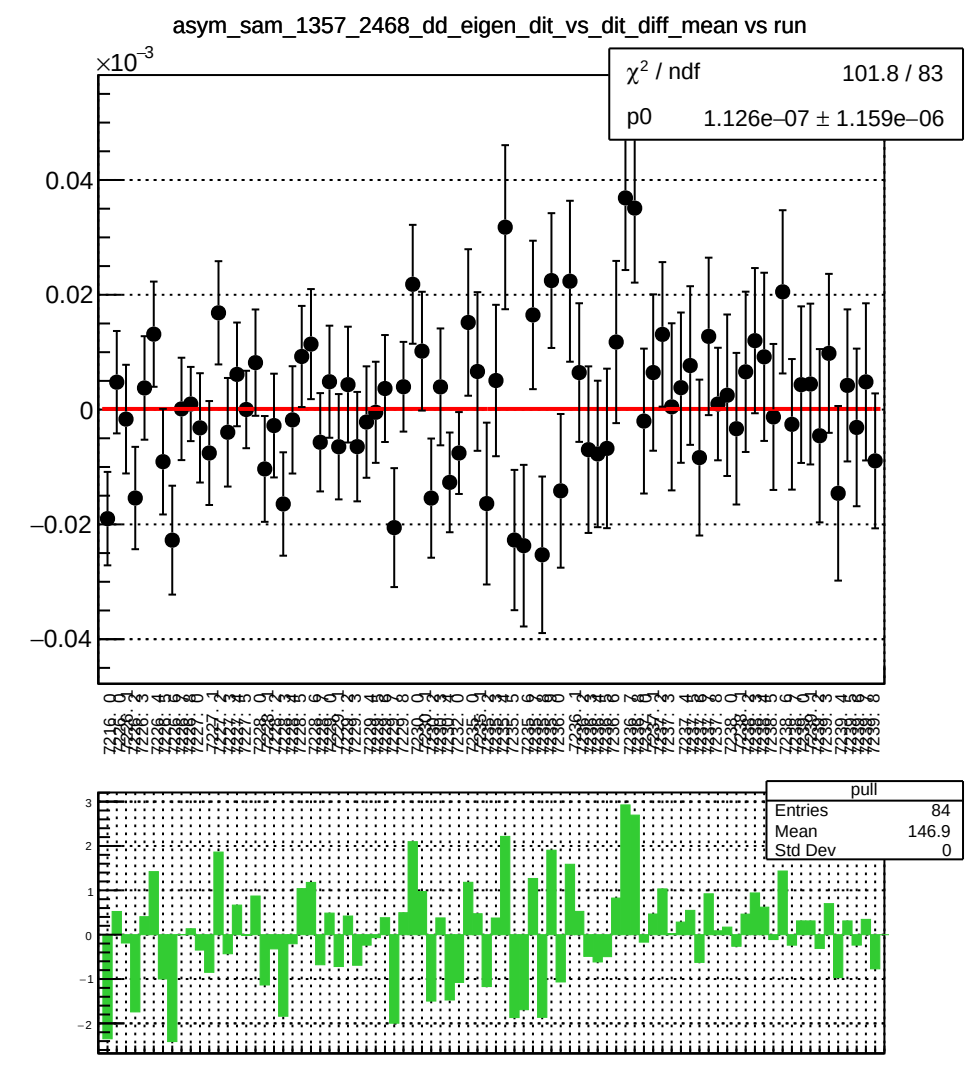

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 85.01 / 83
p0 0.03266 ± 0.01481
pull
Entries 84
Mean 441.3
Std Dev 0

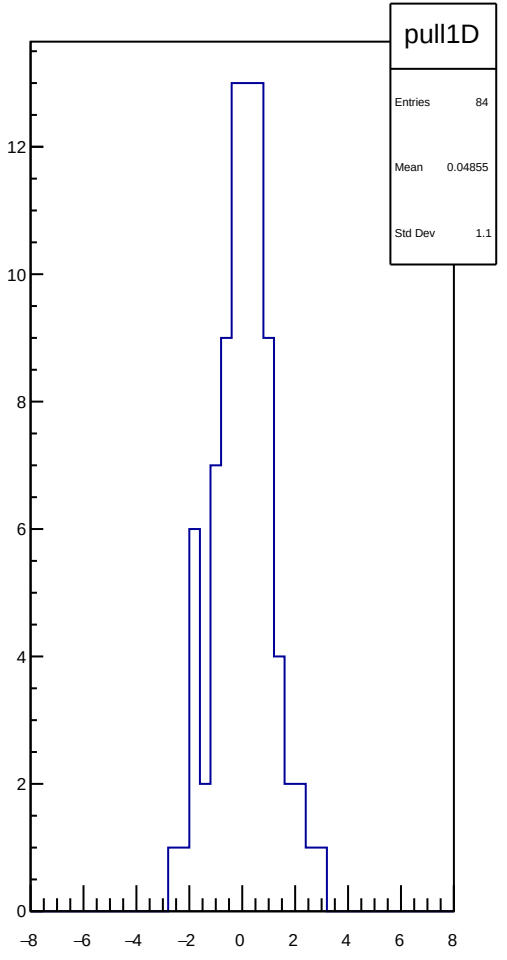

pull1D
Entries 84
Mean 0.008681
Std Dev 1.006

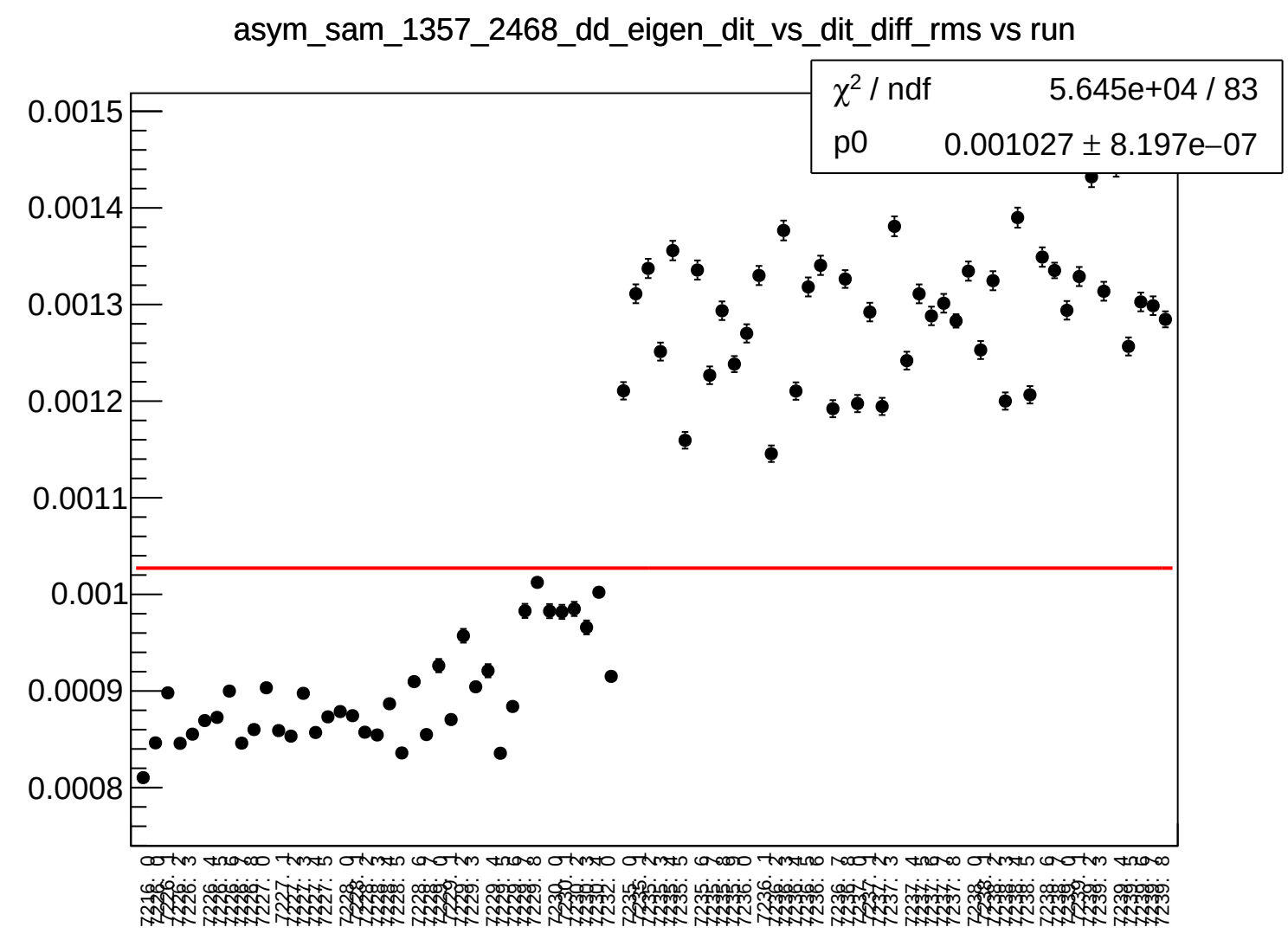

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.522e+04 / 83
p0 13.25 ± 0.01047
22
20
18
16
14
12

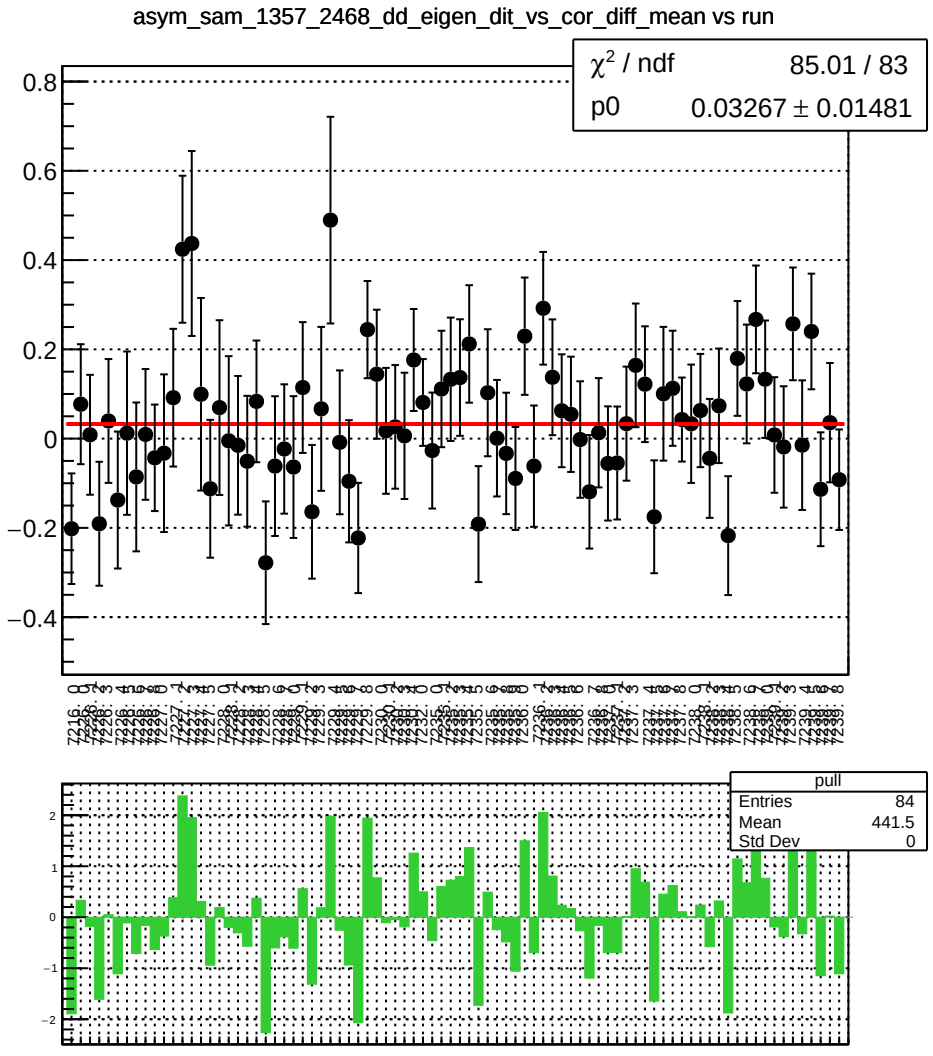

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.01 / 83
p0 0.03266 ± 0.01481
pull
Entries 84
Mean 441.3
Std Dev 0
pull1D
Entries 84
Mean 0.008681
Std Dev 1.006

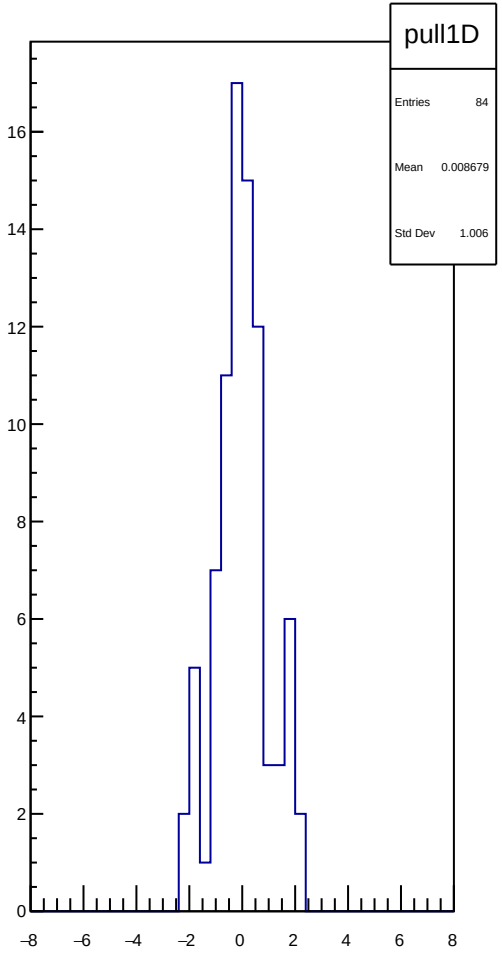

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.522e+04 / 83
p0 13.25 ± 0.01047
22
20
18
16
14
12

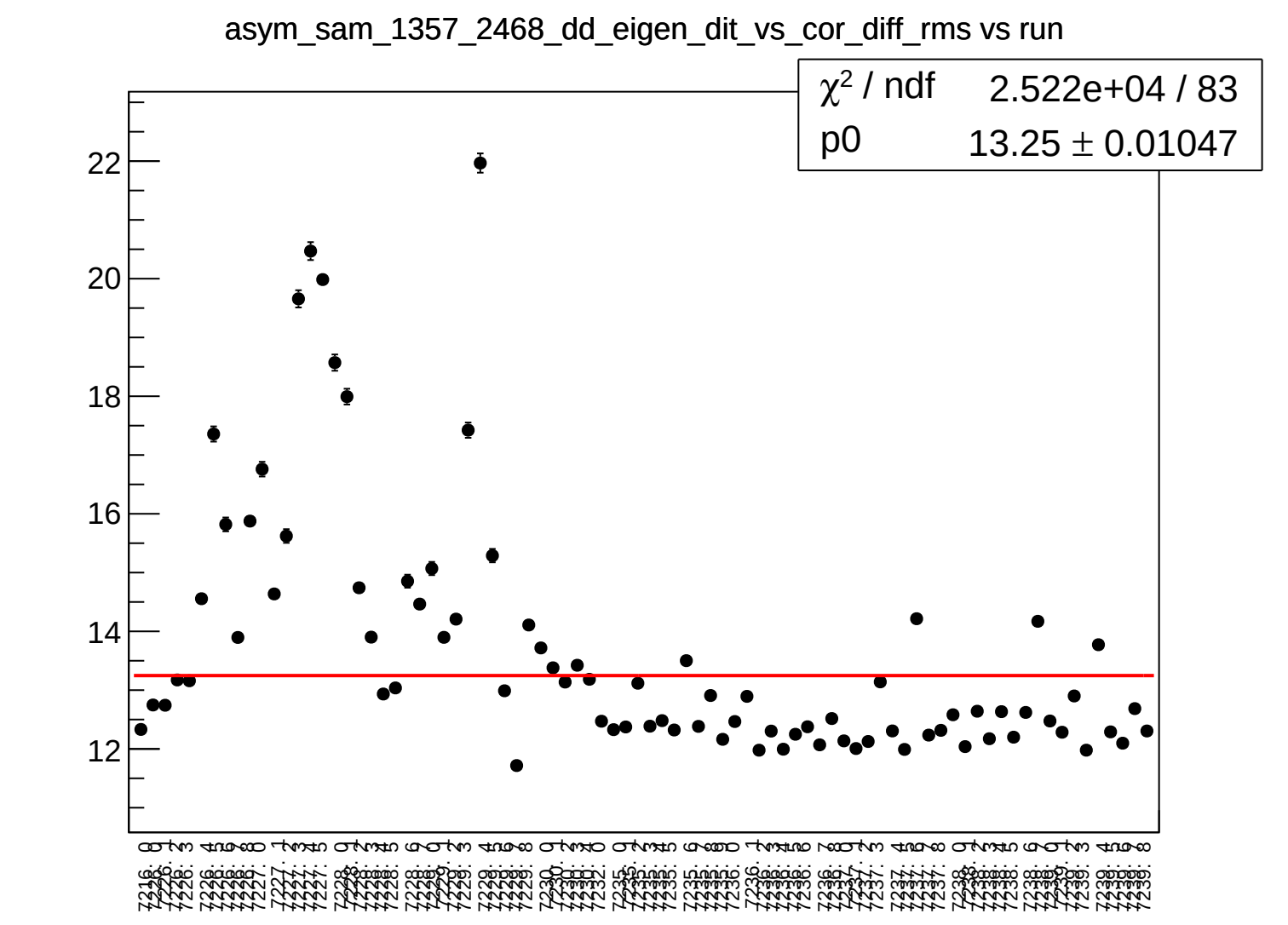

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.8 / 83
p0 1.126e−07 ± 1.159e−06
0.04
0.02
0
−0.02
−0.04
pull
Entries 84
Mean 146.9
Std Dev 0
3
2
1
0
−1
−2

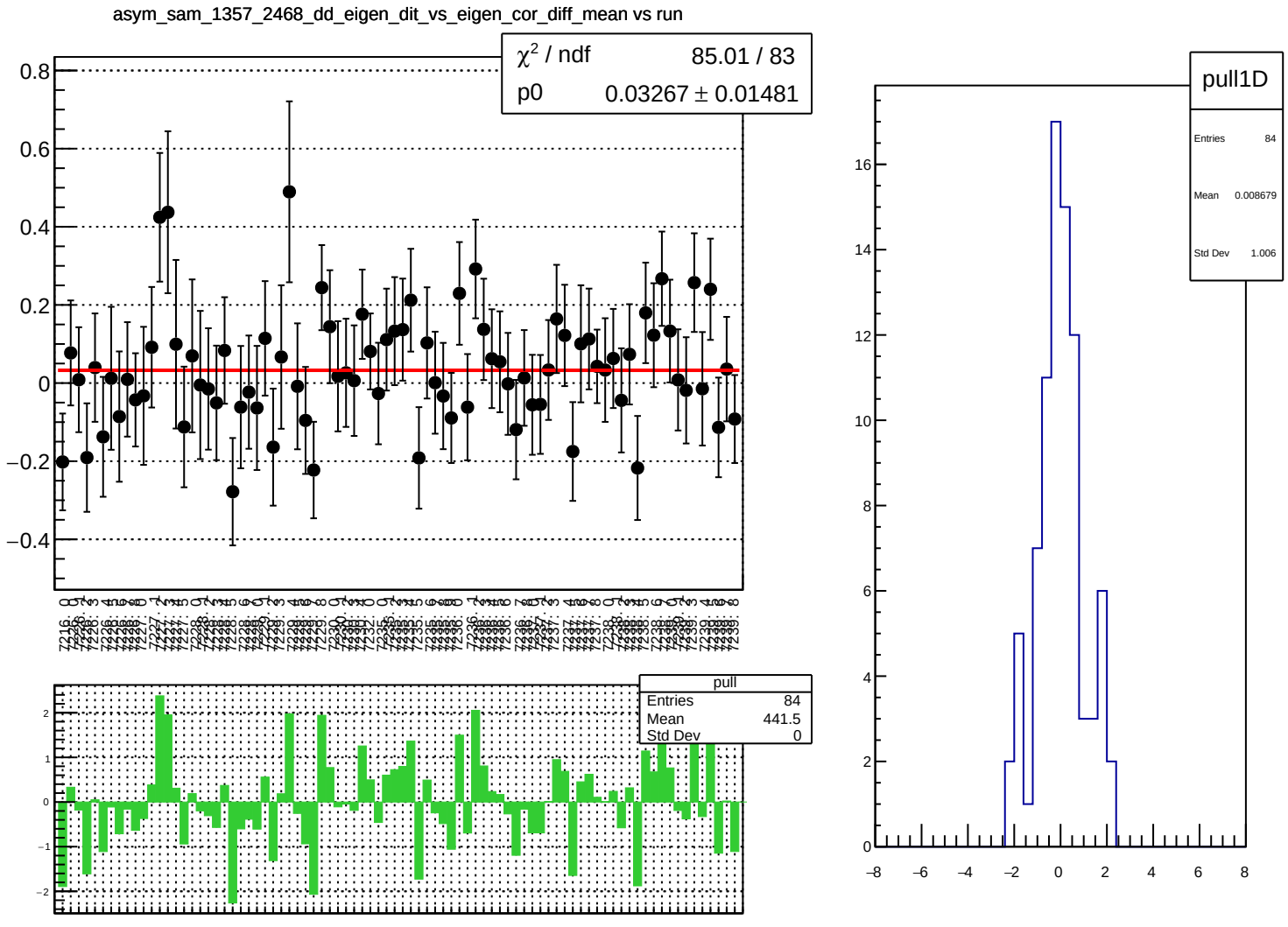

pull1D
Entries 84
Mean 0.04855
Std Dev 1.1
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

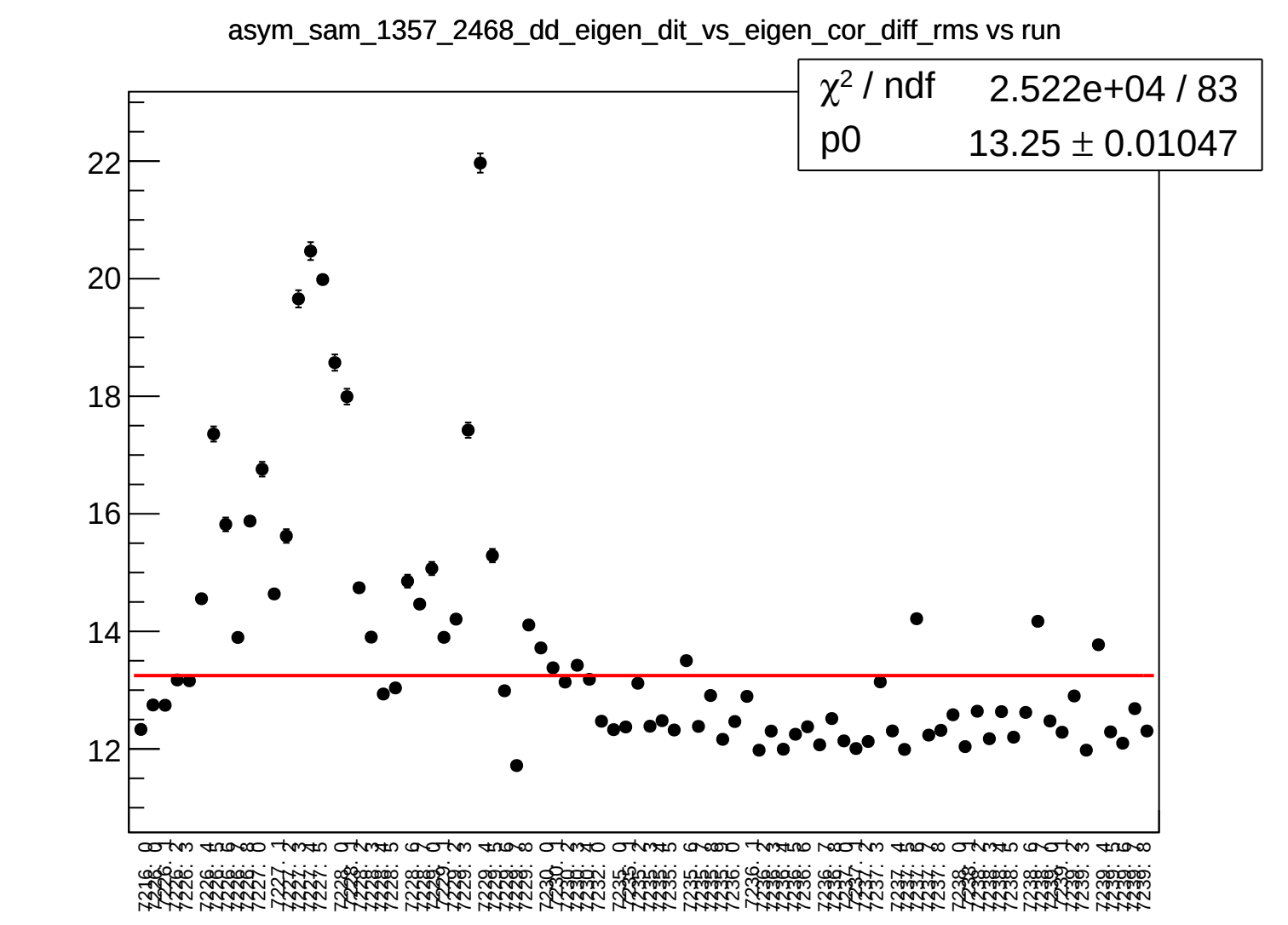

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.645e+04 / 83
p0 0.001027 ± 8.197e−07
0.0015
0.0014
0.0013
0.0012
0.0011
0.001
0.0009
0.0008

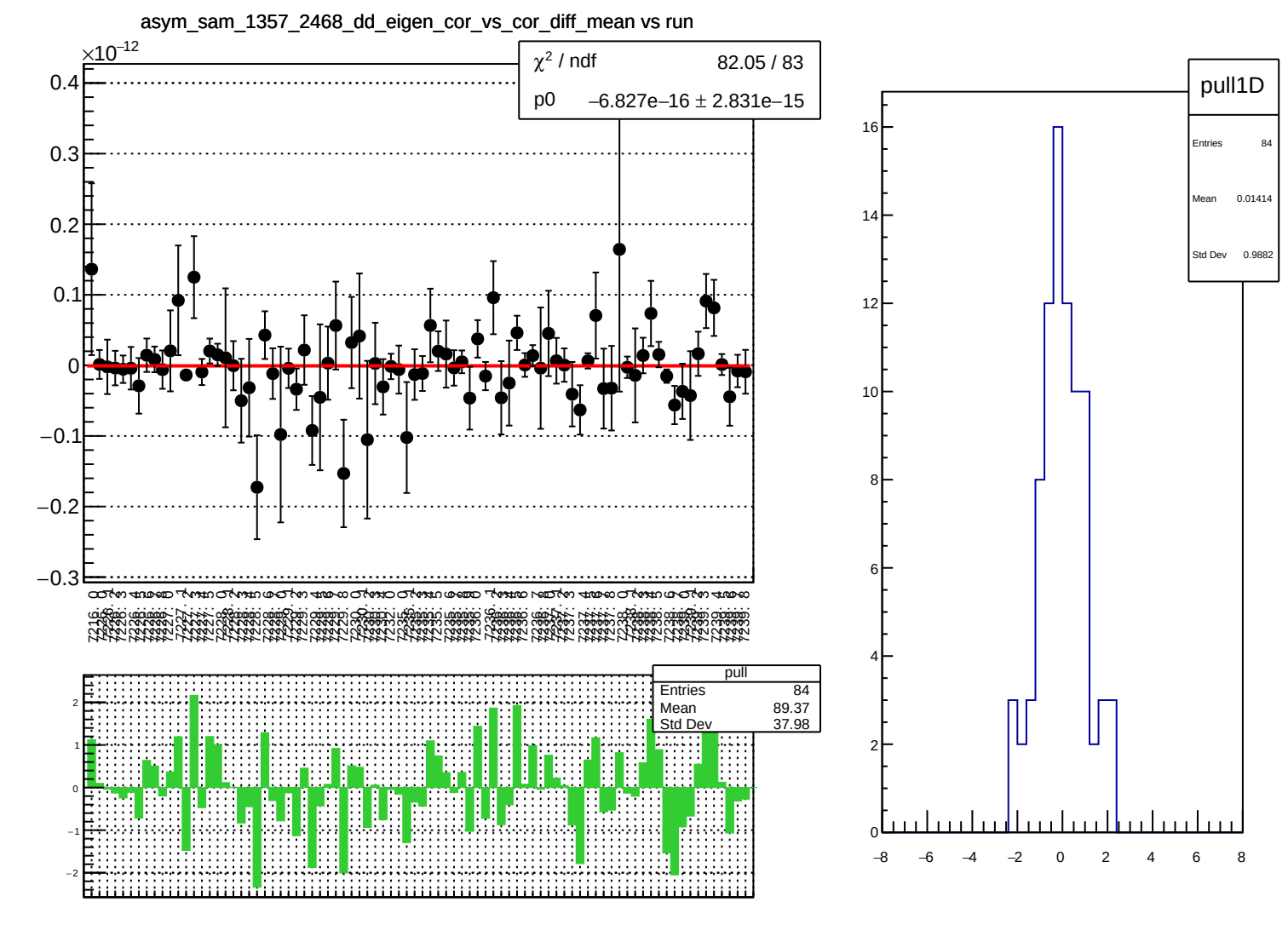

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.01 / 83
p0 0.03267 ± 0.01481
pull
Entries 84
Mean 441.5
Std Dev 0

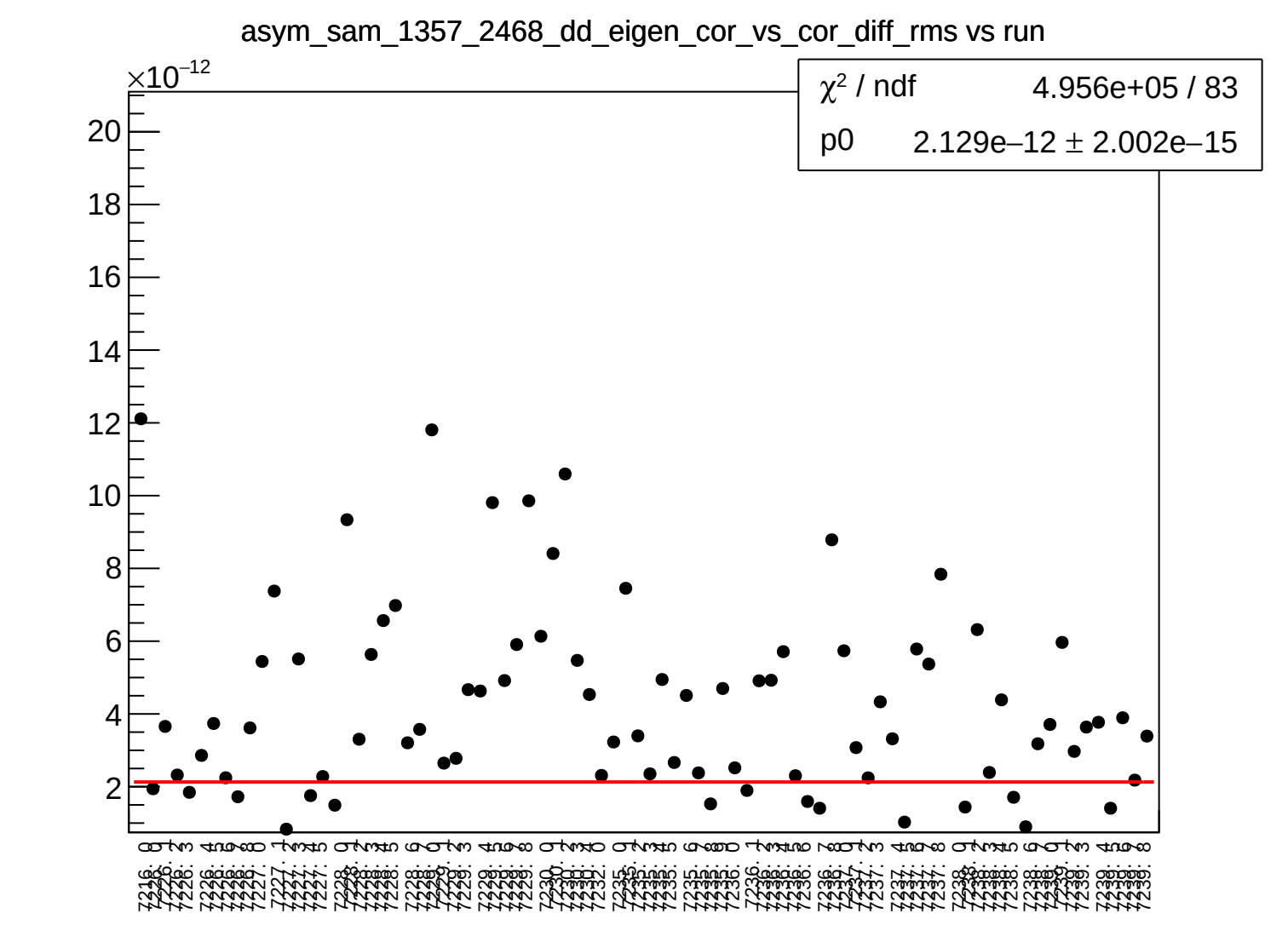

pull1D
Entries 84
Mean 0.008679
Std Dev 1.006

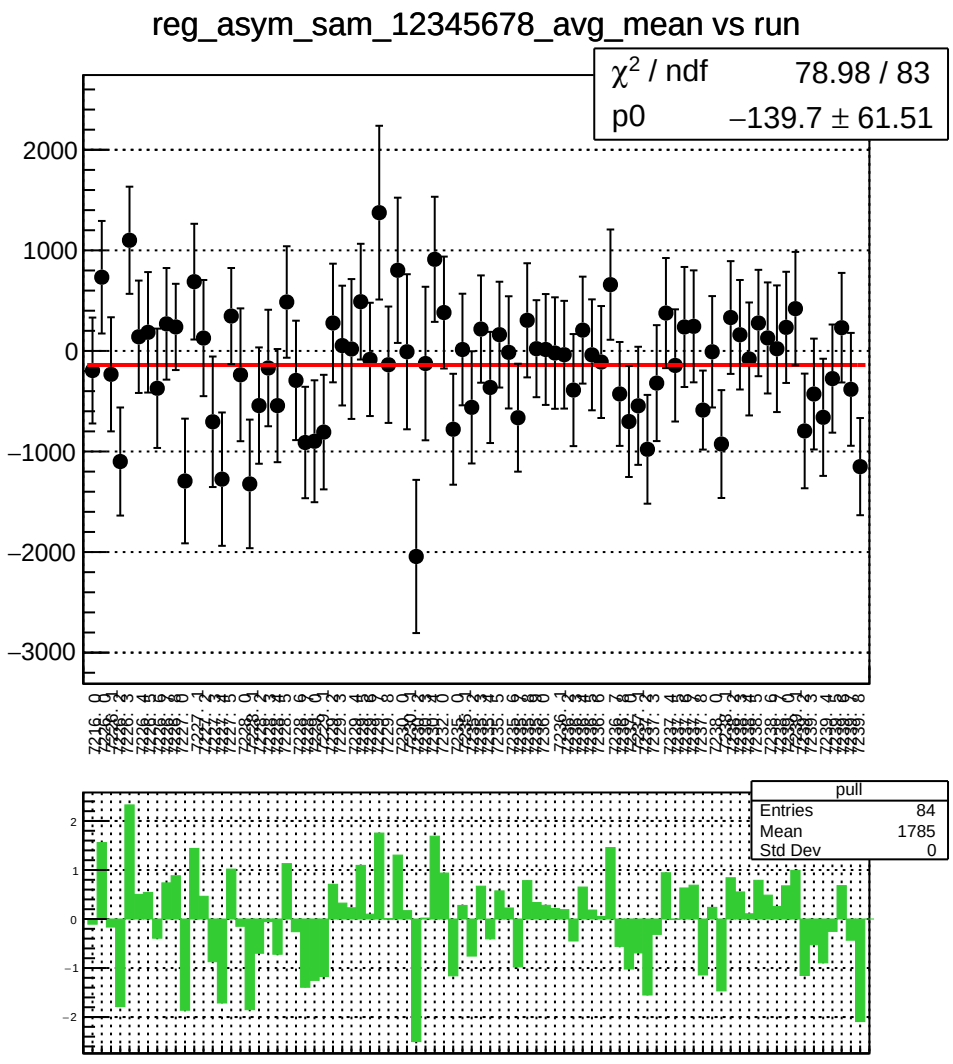

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.522e+04 / 83
p0 13.25 ± 0.01047
22
20
18
16
14
12

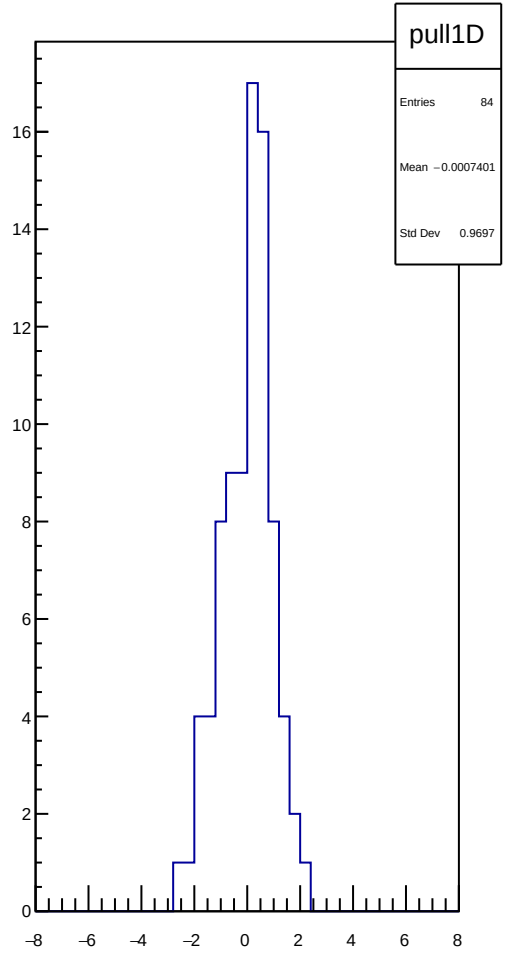

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.01 / 83
p0 0.03267 ± 0.01481
pull
Entries 84
Mean 441.5
Std Dev 0
pull1D
Entries 84
Mean 0.008679
Std Dev 1.006

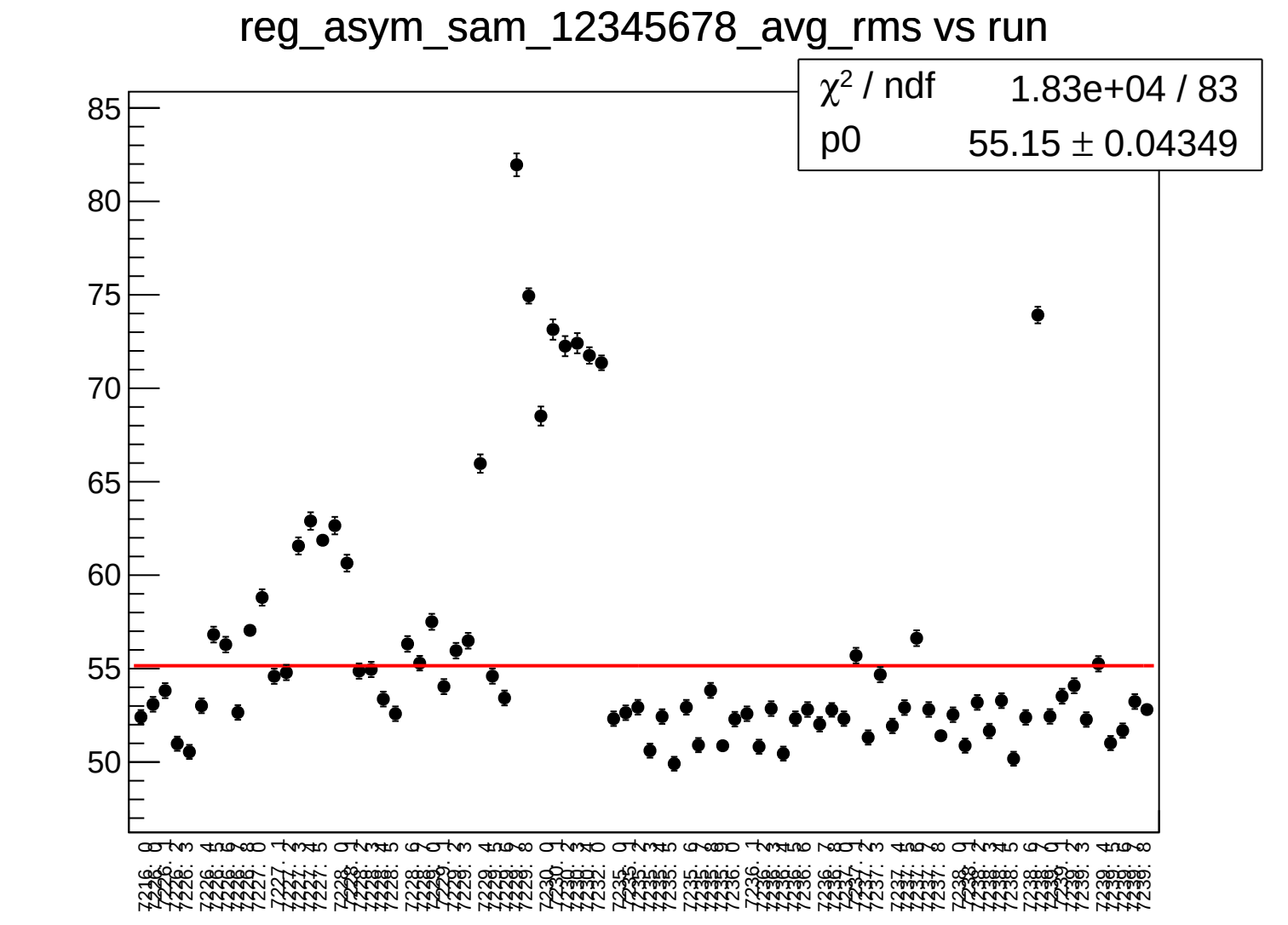

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.522e+04 / 83
p0 13.25 ± 0.01047
22
20
18
16
14
12

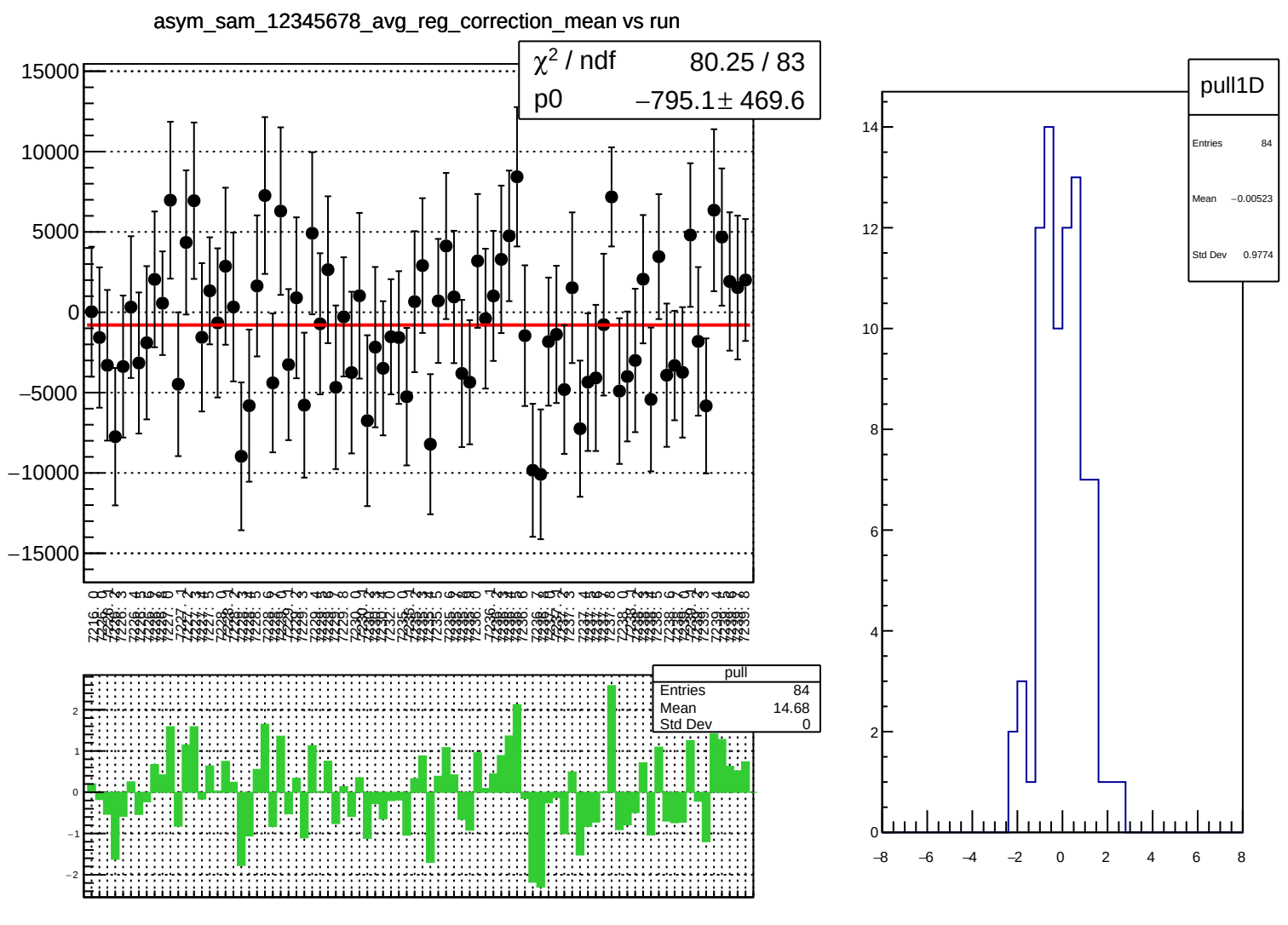

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.05 / 83
p0 −6.827e−16 ± 2.831e−15
pull
Entries 84
Mean 89.37
Std Dev 37.98
pull1D
Entries 84
Mean 0.01414
Std Dev 0.9882

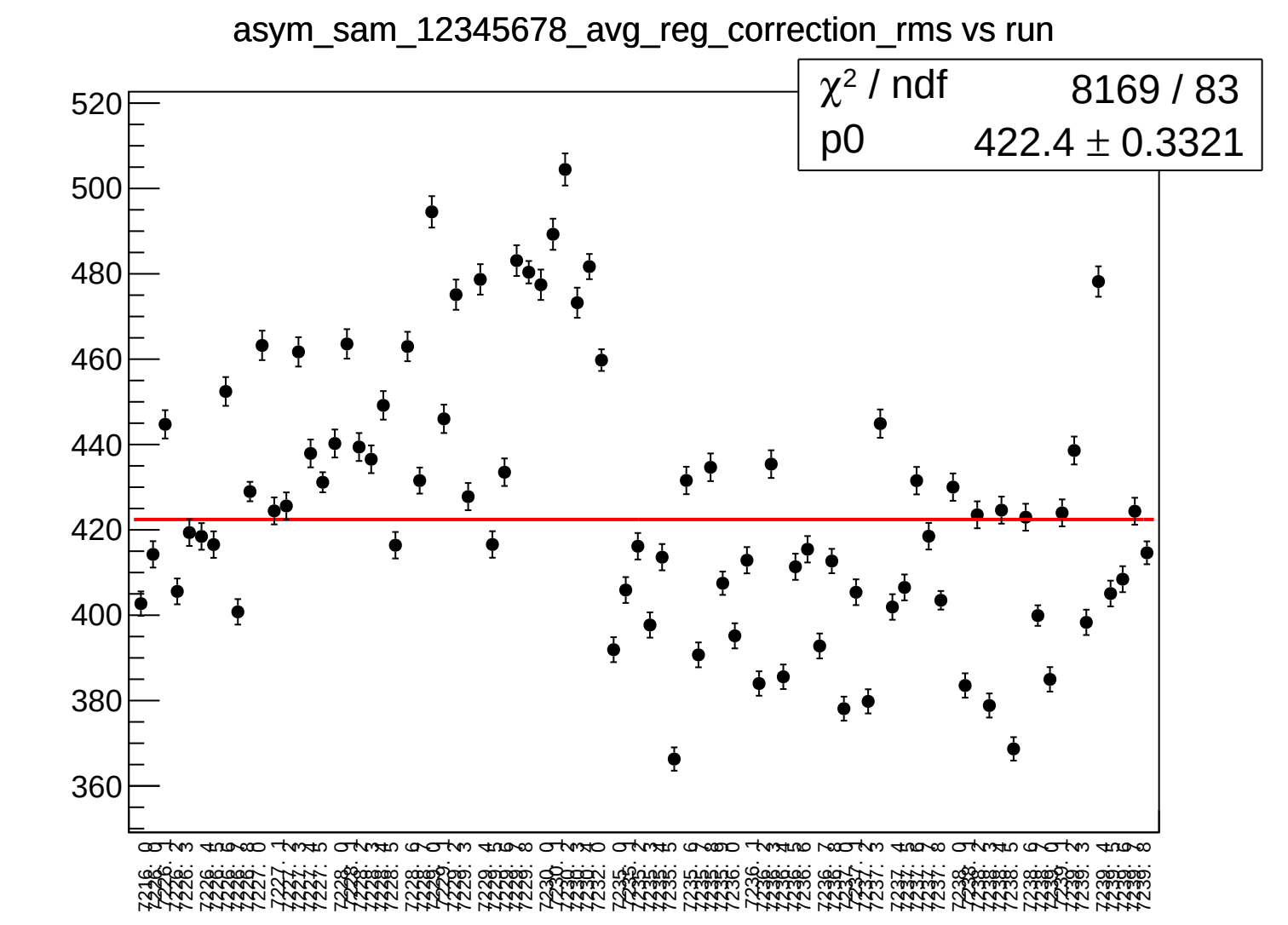

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10^−12
χ² / ndf 4.956e+05 / 83
p0 2.129e−12 ± 2.002e−15
20
18
16
14
12
10
8
6
4
2

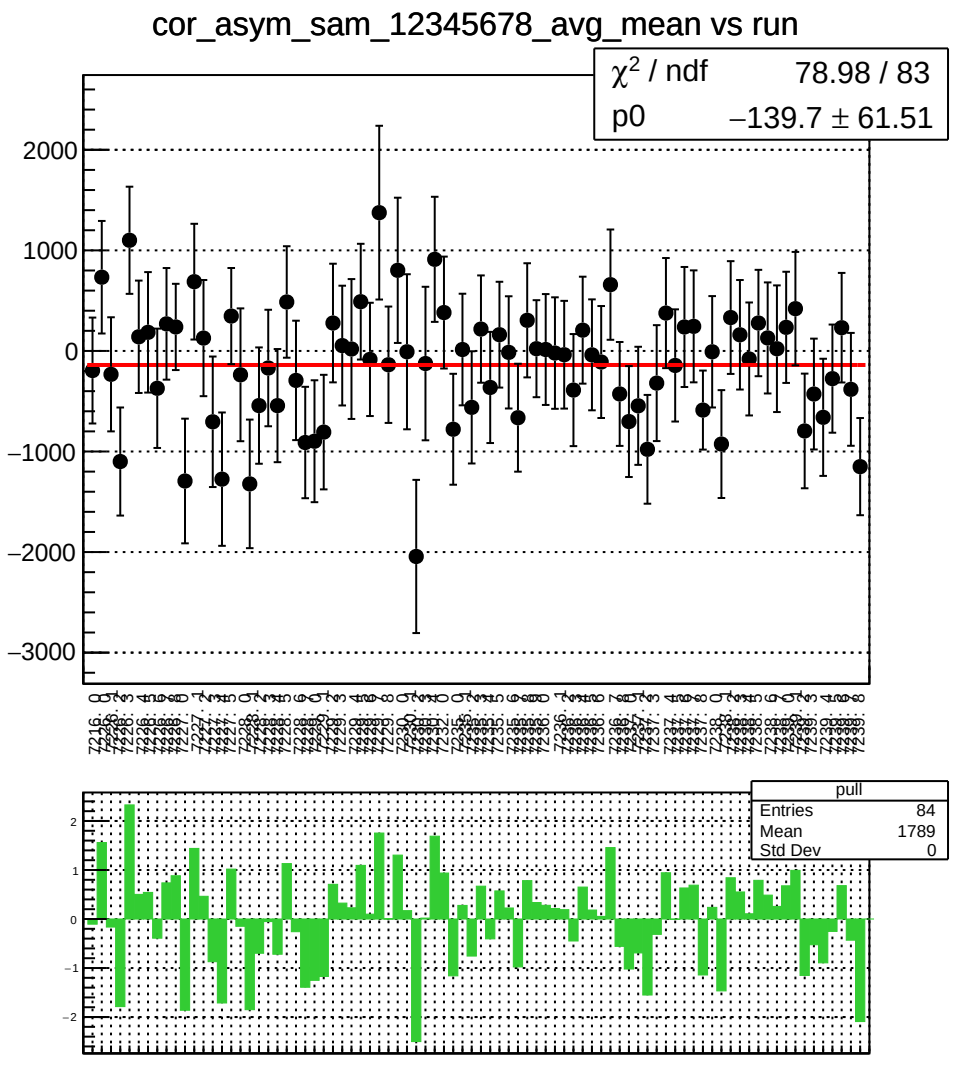

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 78.98 / 83
p0 −139.7 ± 61.51
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean 1785
Std Dev 0
2
1
0
−1
−2

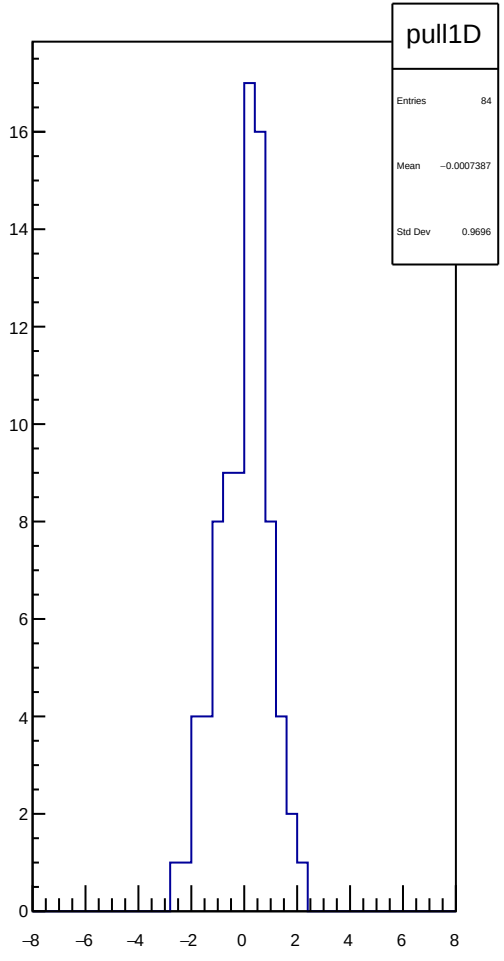

pull1D
Entries 84
Mean −0.0007401
Std Dev 0.9697
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

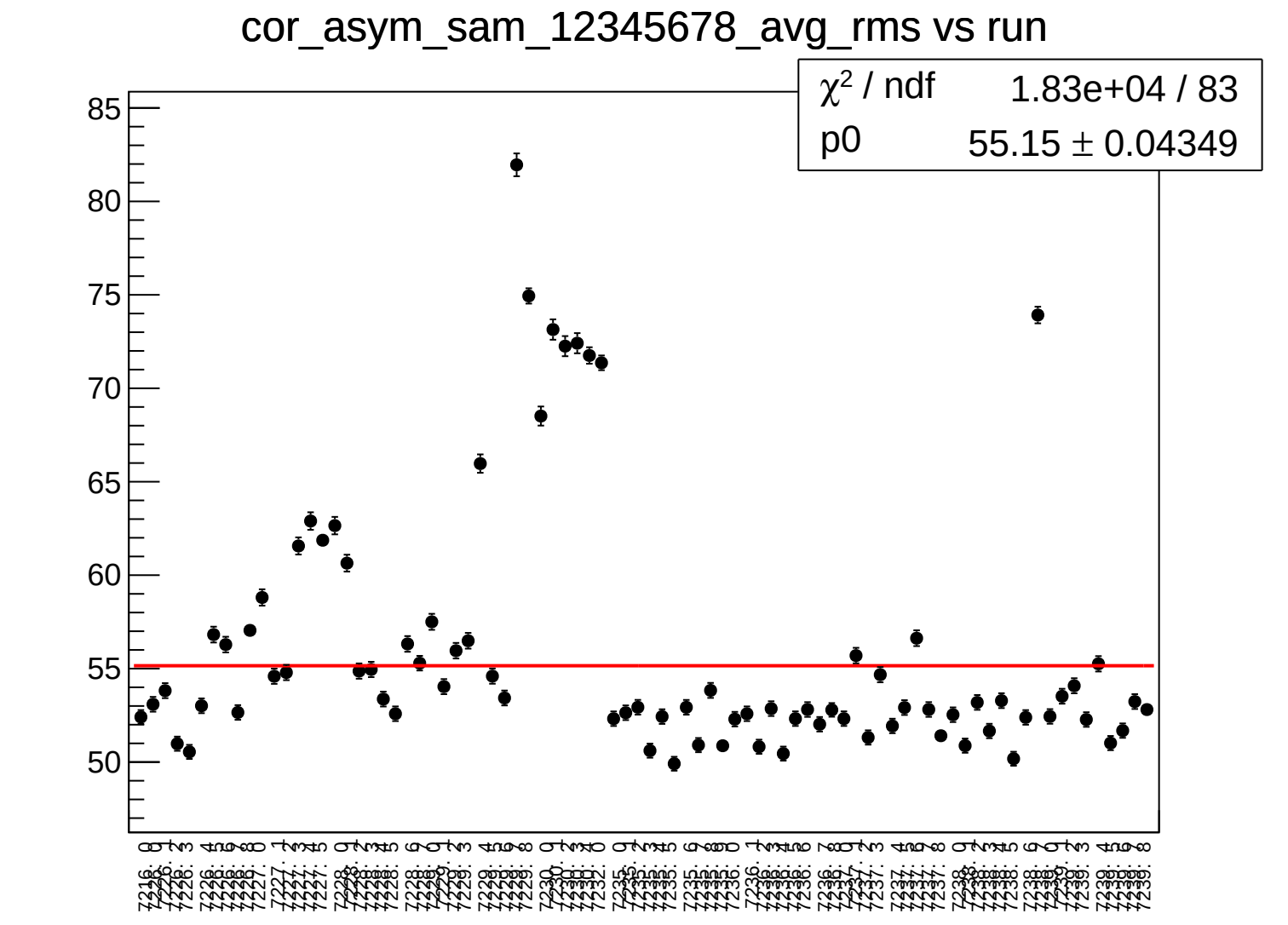

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.83e+04 / 83
p0 55.15 ± 0.04349
85
80
75
70
65
60
55
50

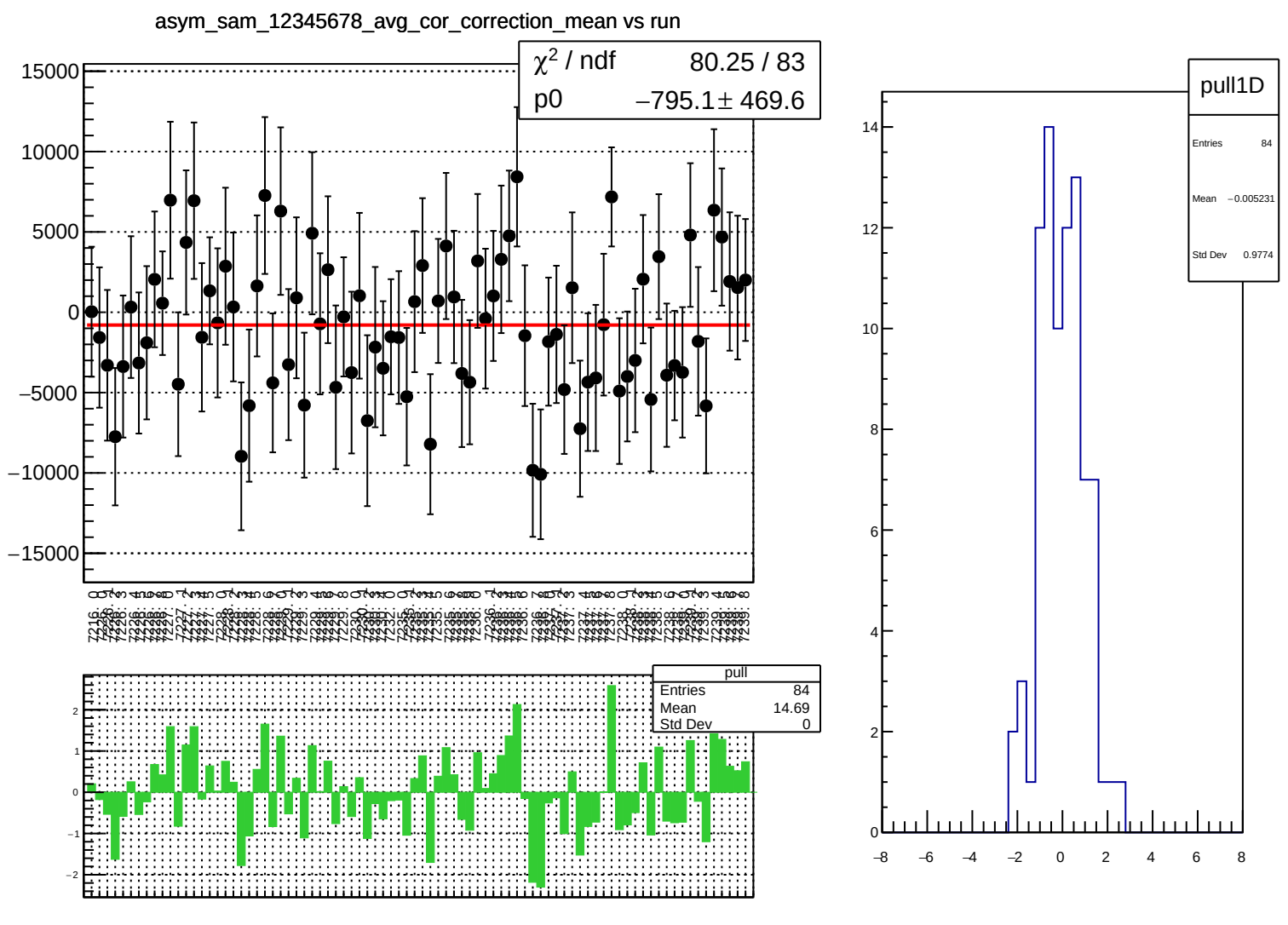

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 80.25 / 83
p0 −795.1 ± 469.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 14.68
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.00523
Std Dev 0.9774
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

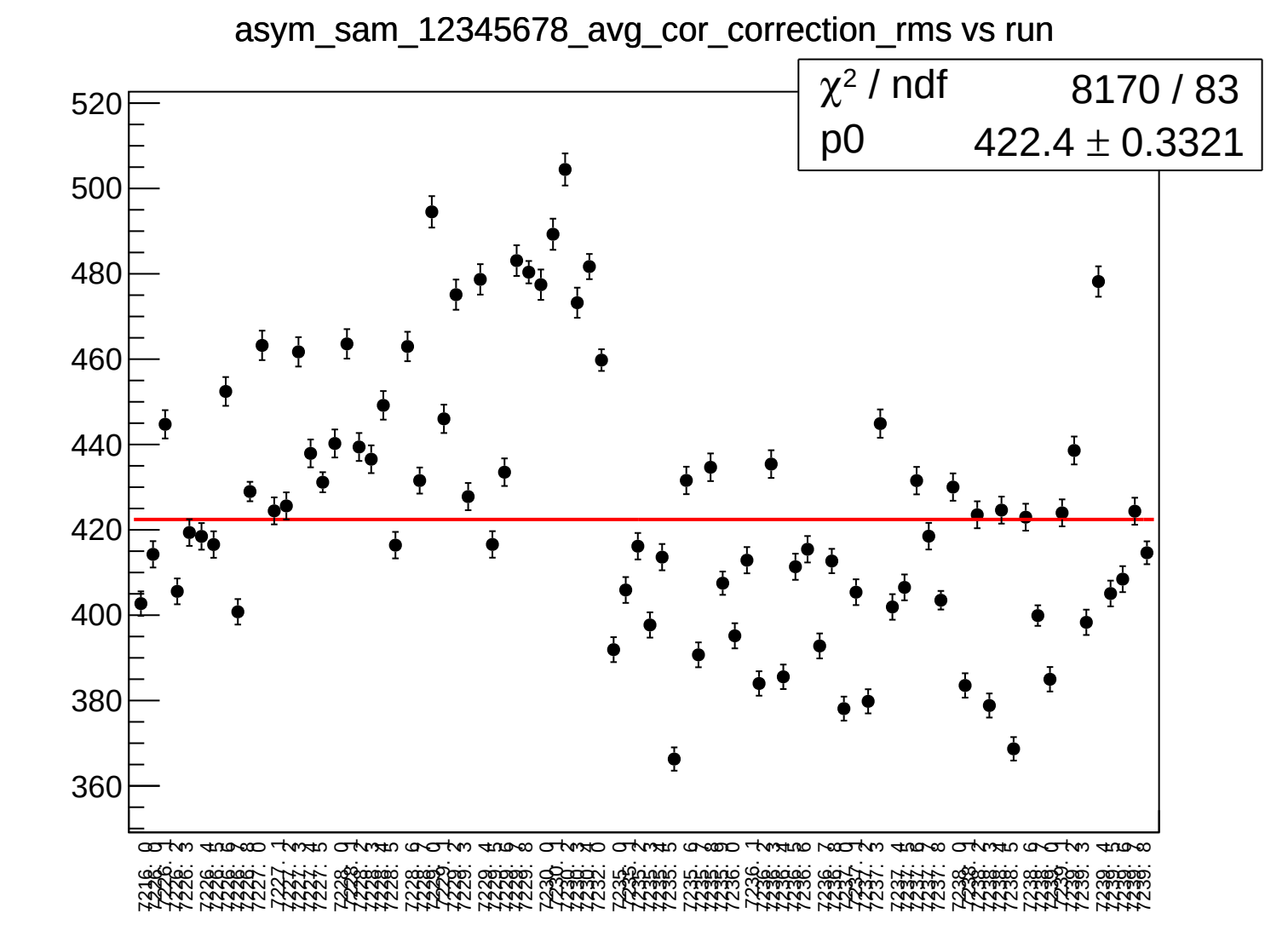

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 8169 / 83
p0 422.4 ± 0.3321
520
500
480
460
440
420
400
380
360

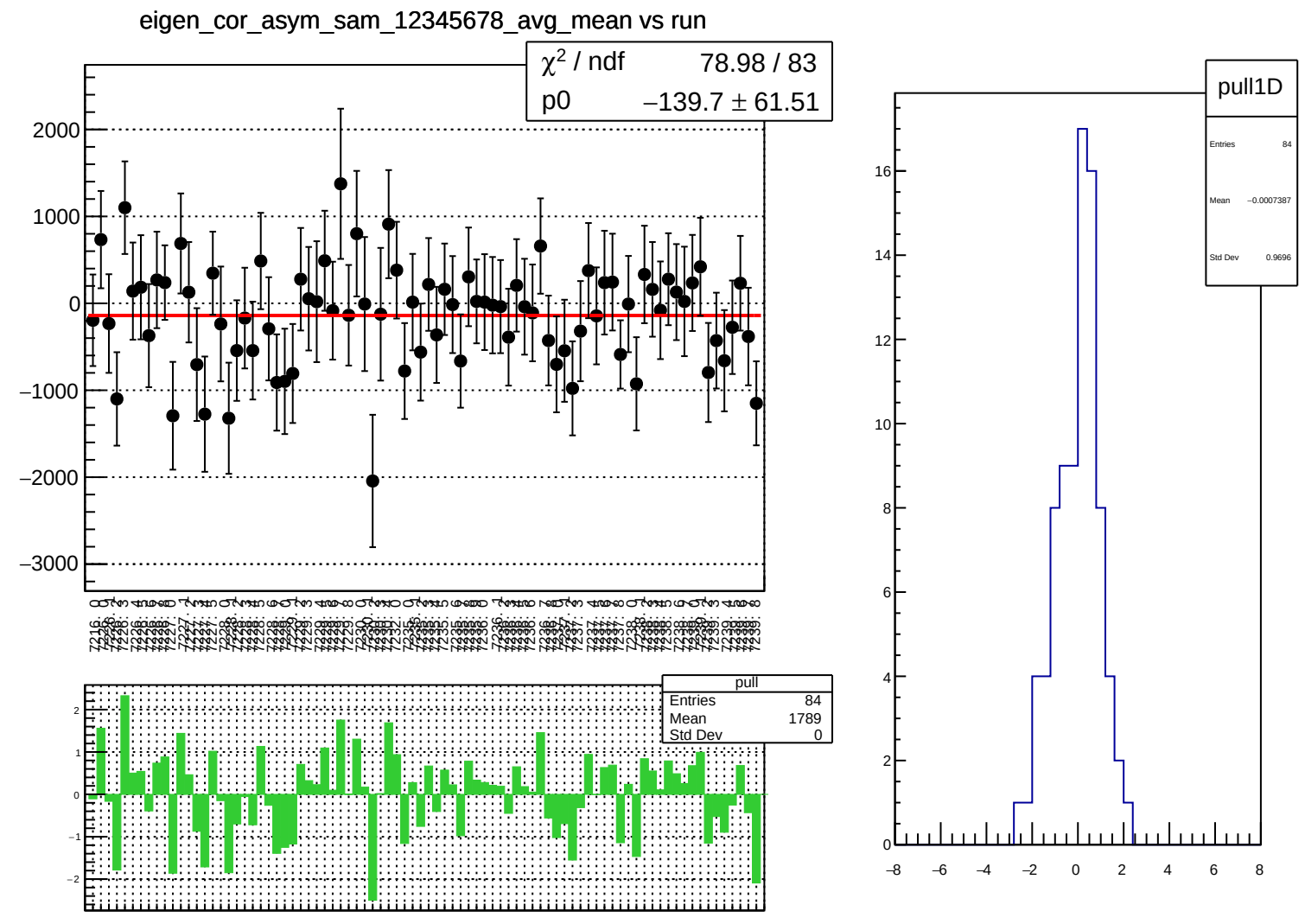

cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 78.98 / 83
p0 −139.7 ± 61.51
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean 1789
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 84
Mean −0.0007387
Std Dev 0.9696
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 1.83e+04 / 83
p0 55.15 ± 0.04349
85
80
75
70
65
60
55
50


asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 80.25 / 83
p0 −795.1 ± 469.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 14.69
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.005231
Std Dev 0.9774
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 8170 / 83
p0 422.4 ± 0.3321
520
500
480
460
440
420
400
380
360


eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 78.98 / 83
p0 −139.7 ± 61.51
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean 1789
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.0007387
Std Dev 0.9696
16
14
12
10
8
6
4
2
0
−8
−6
−4
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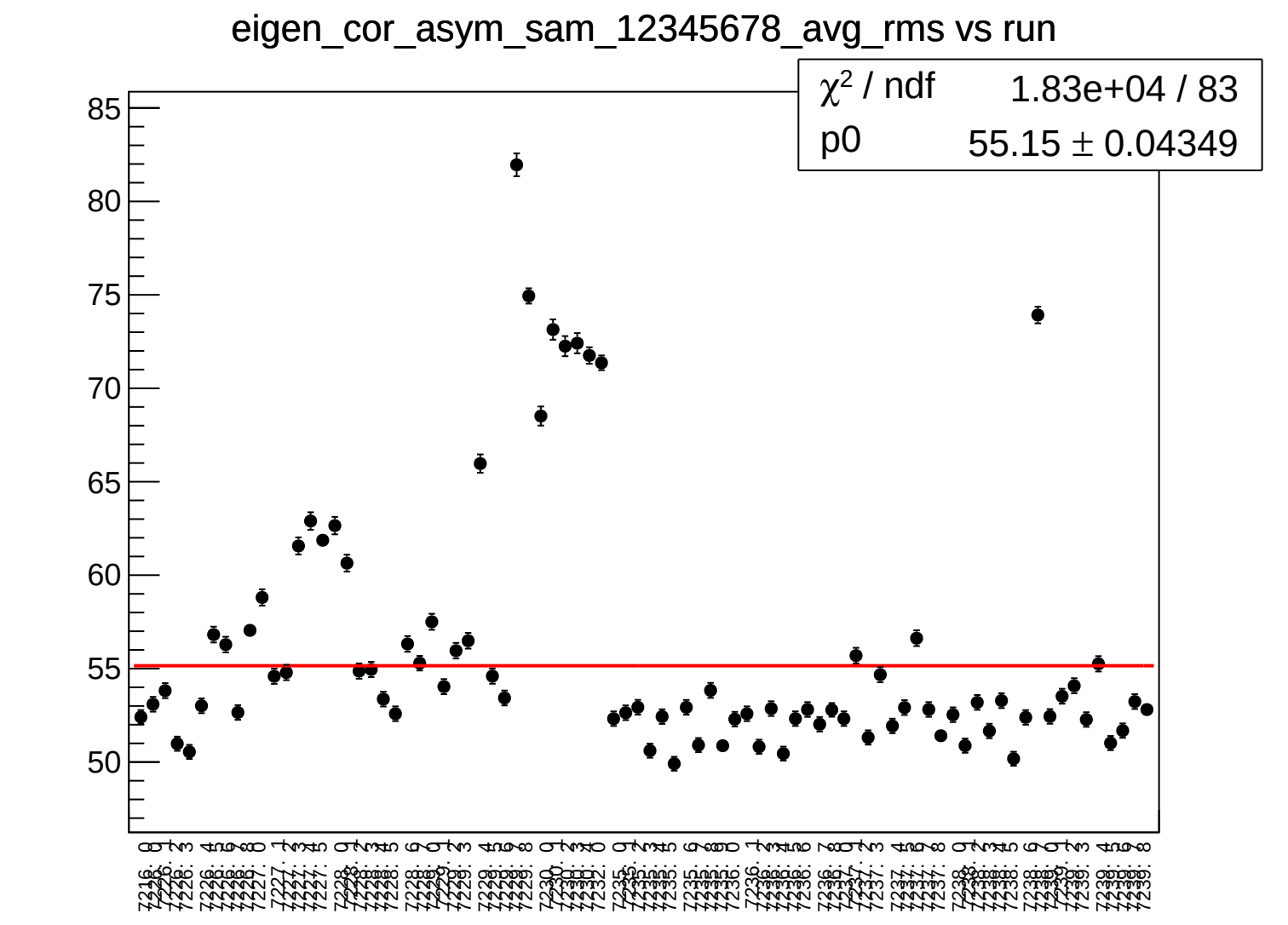
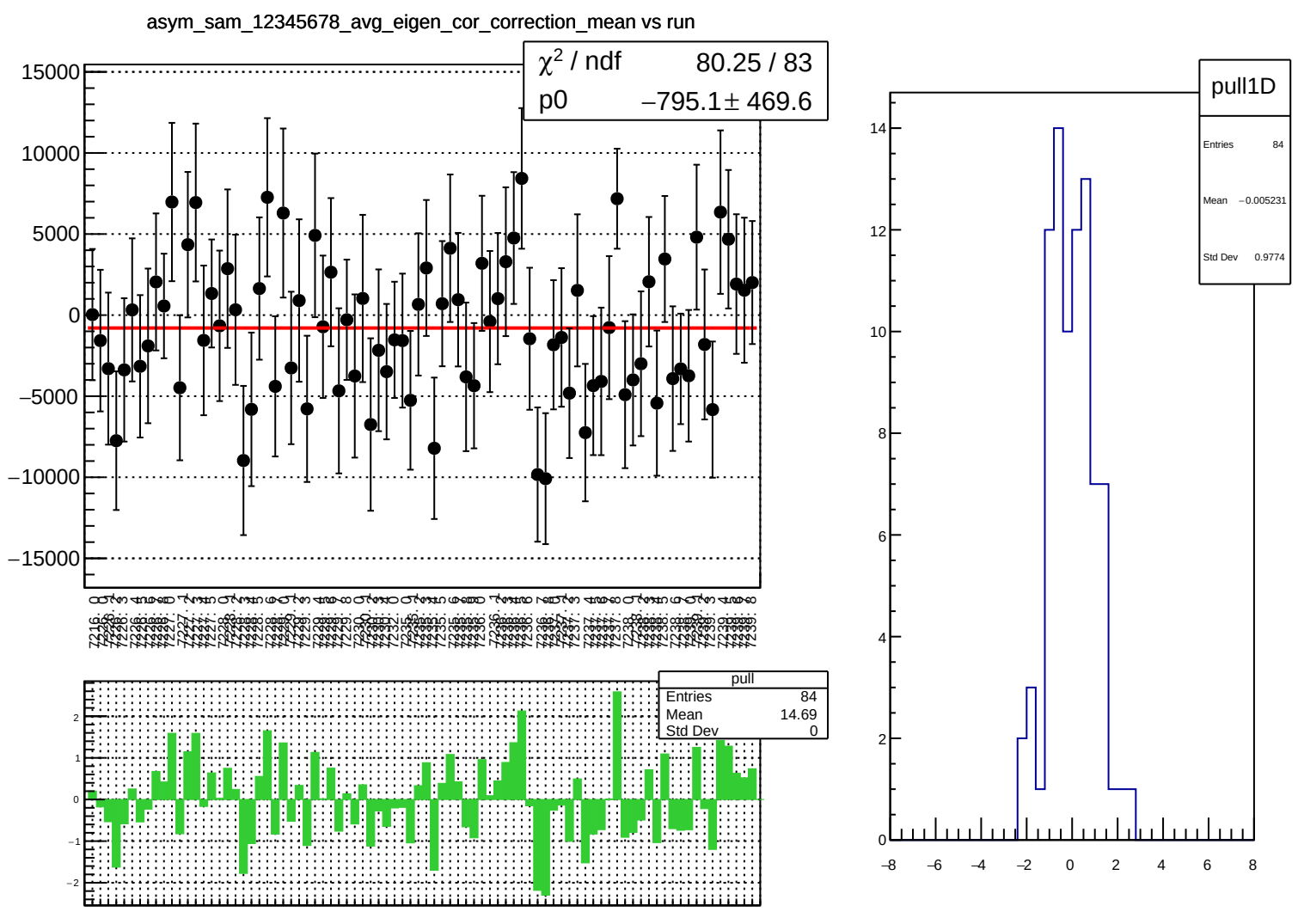
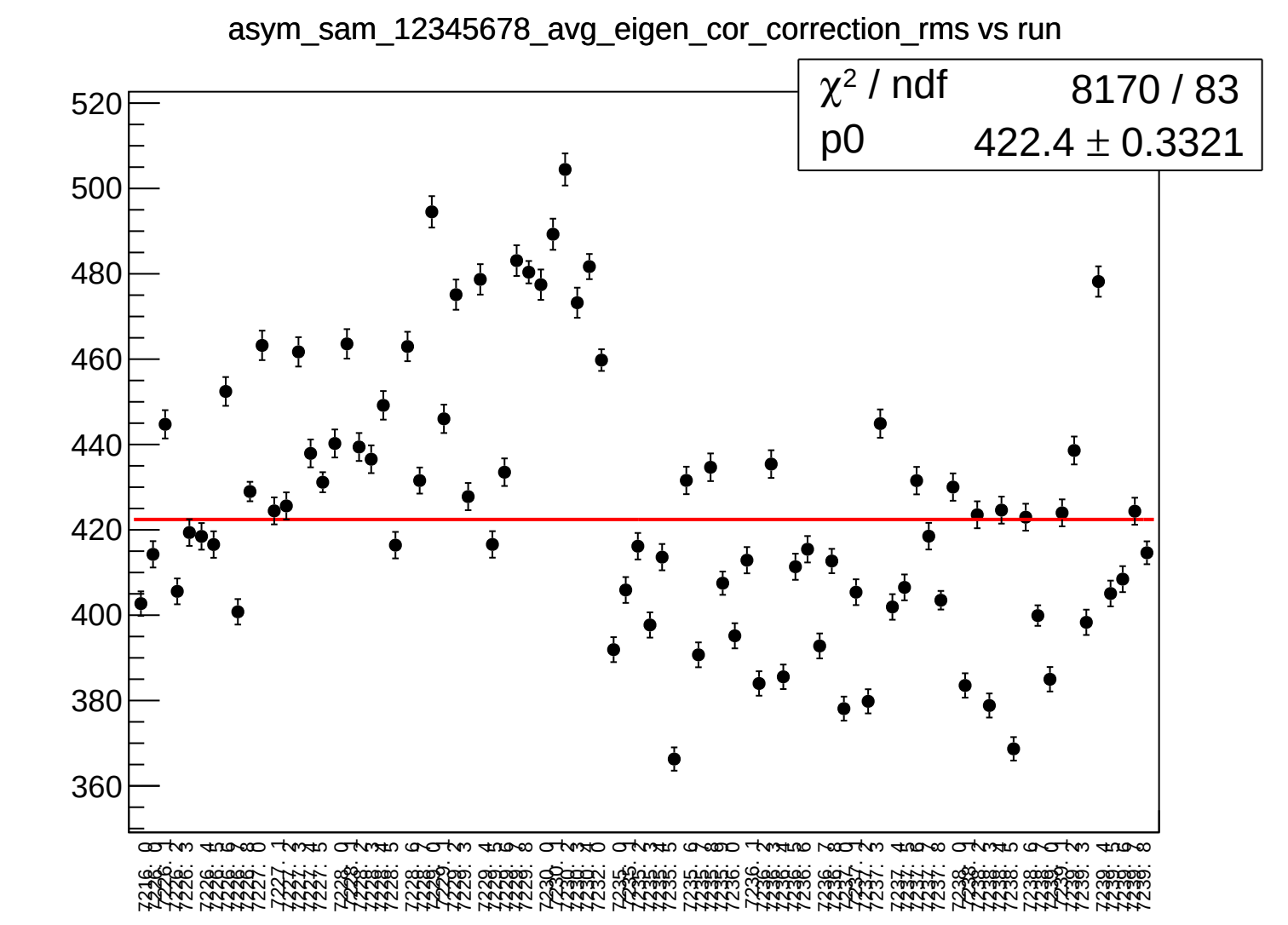
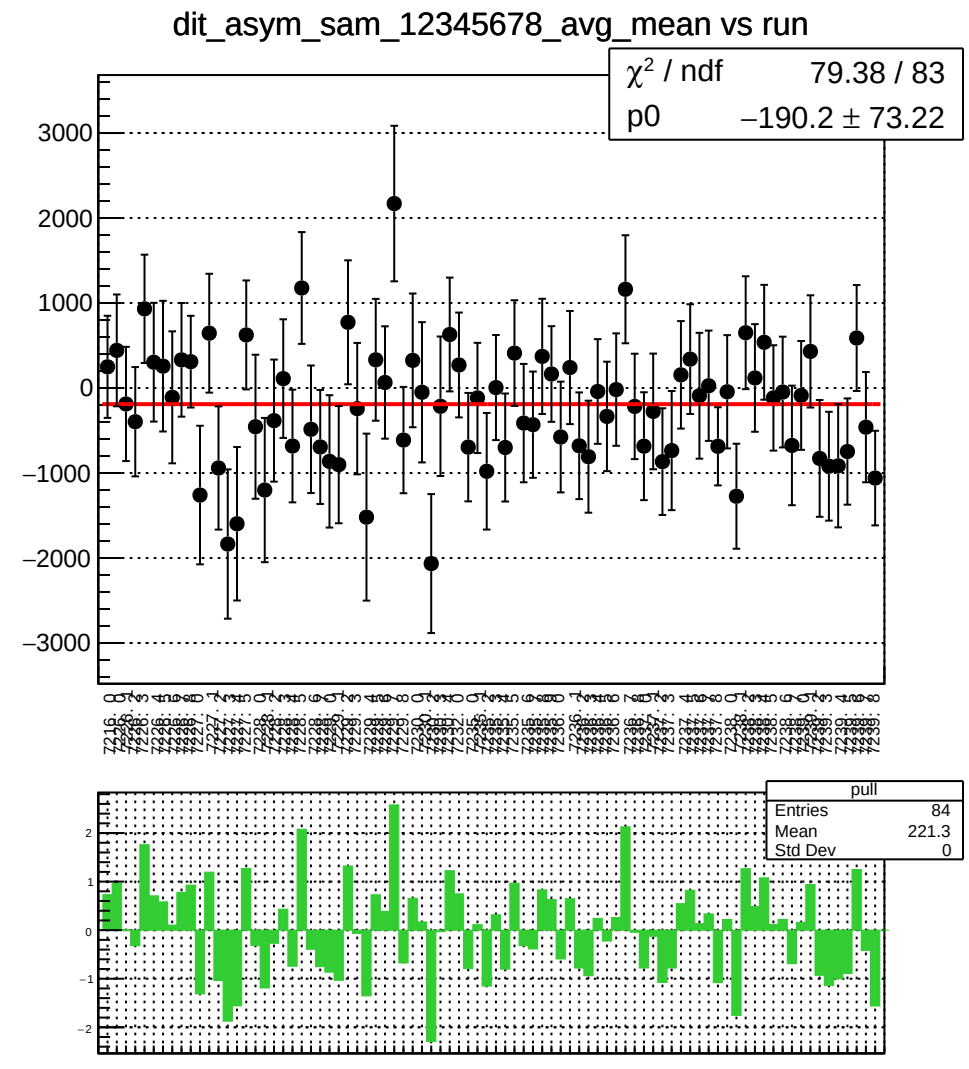
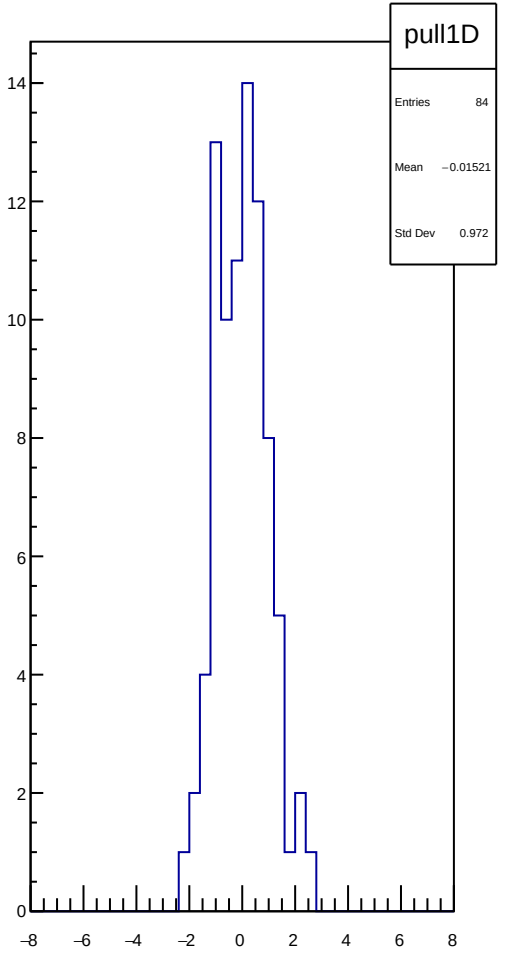
0
2
4
6
8

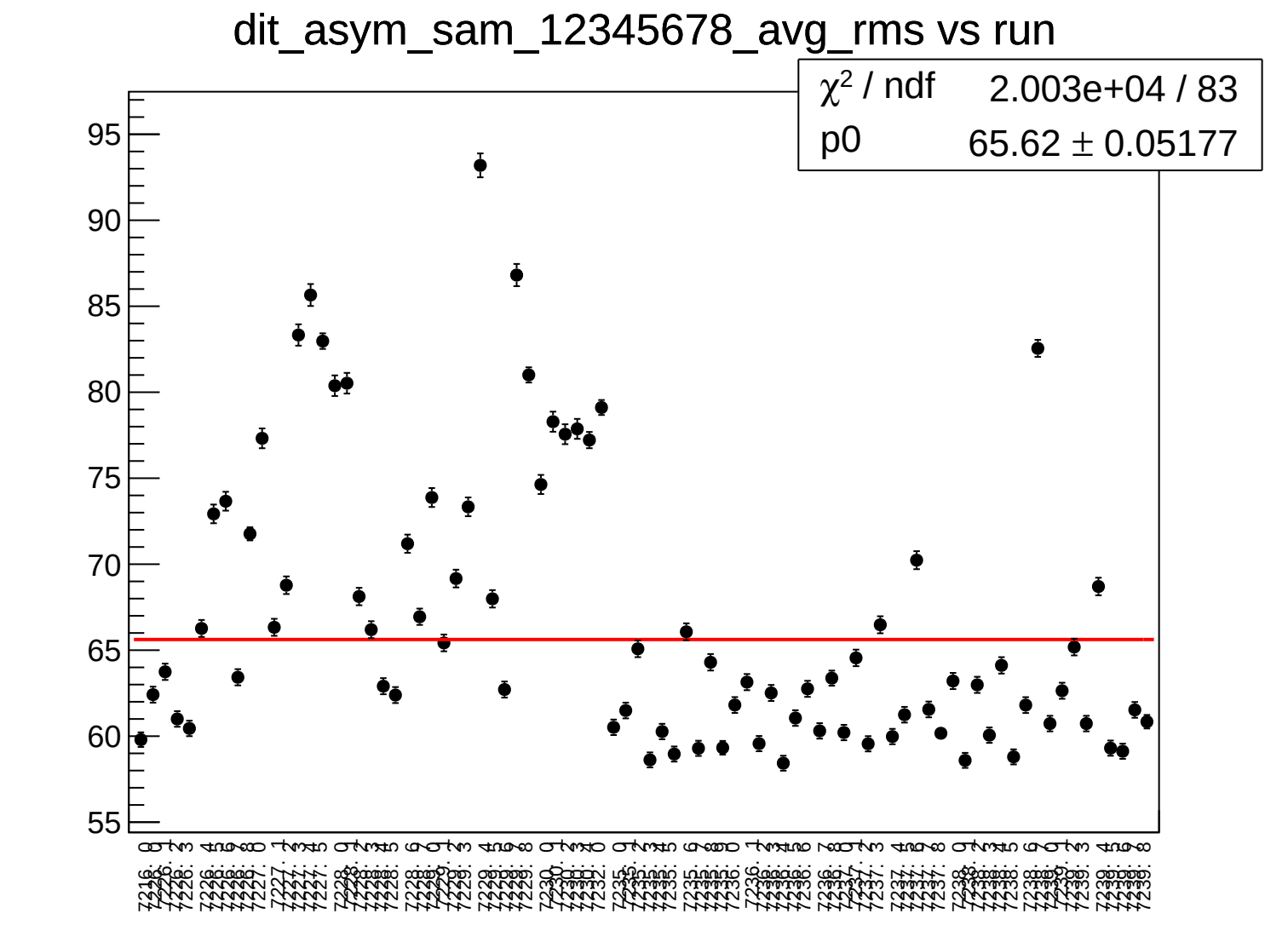

eigen_cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.83e+04 / 83
p0 55.15 ± 0.04349
85
80
75
70
65
60
55
50

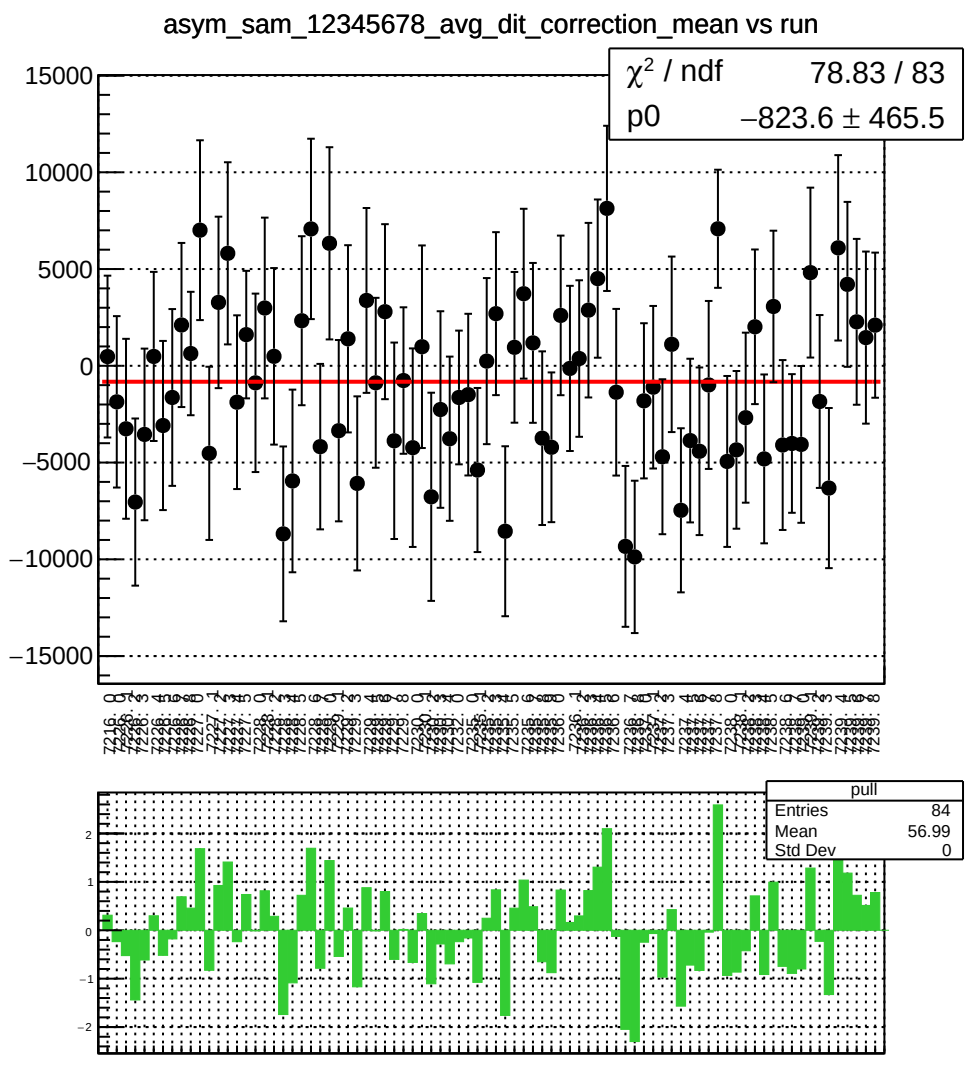

asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 80.25 / 83
p0 −795.1 ± 469.6
pull
Entries 84
Mean 14.69
Std Dev 0
pull1D
Entries 84
Mean −0.005231
Std Dev 0.9774

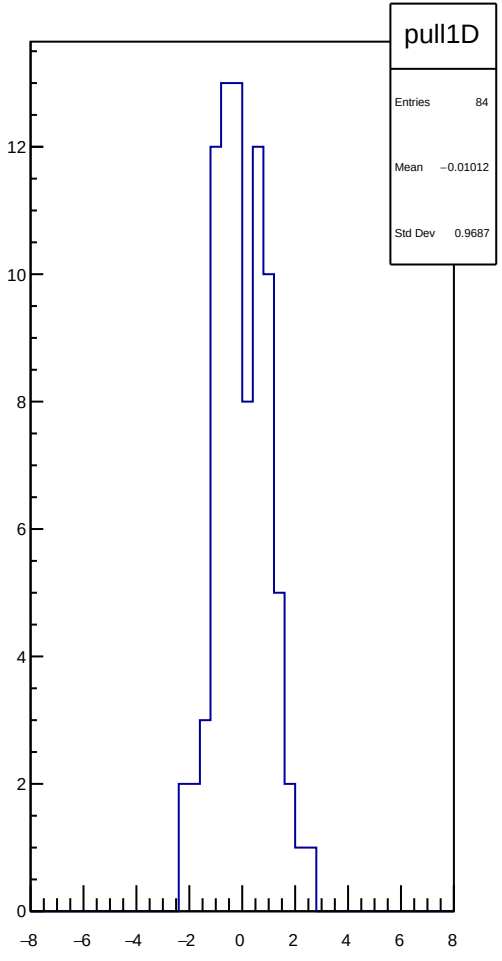

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 8170 / 83
p0 422.4 ± 0.3321
520
500
480
460
440
420
400
380
360

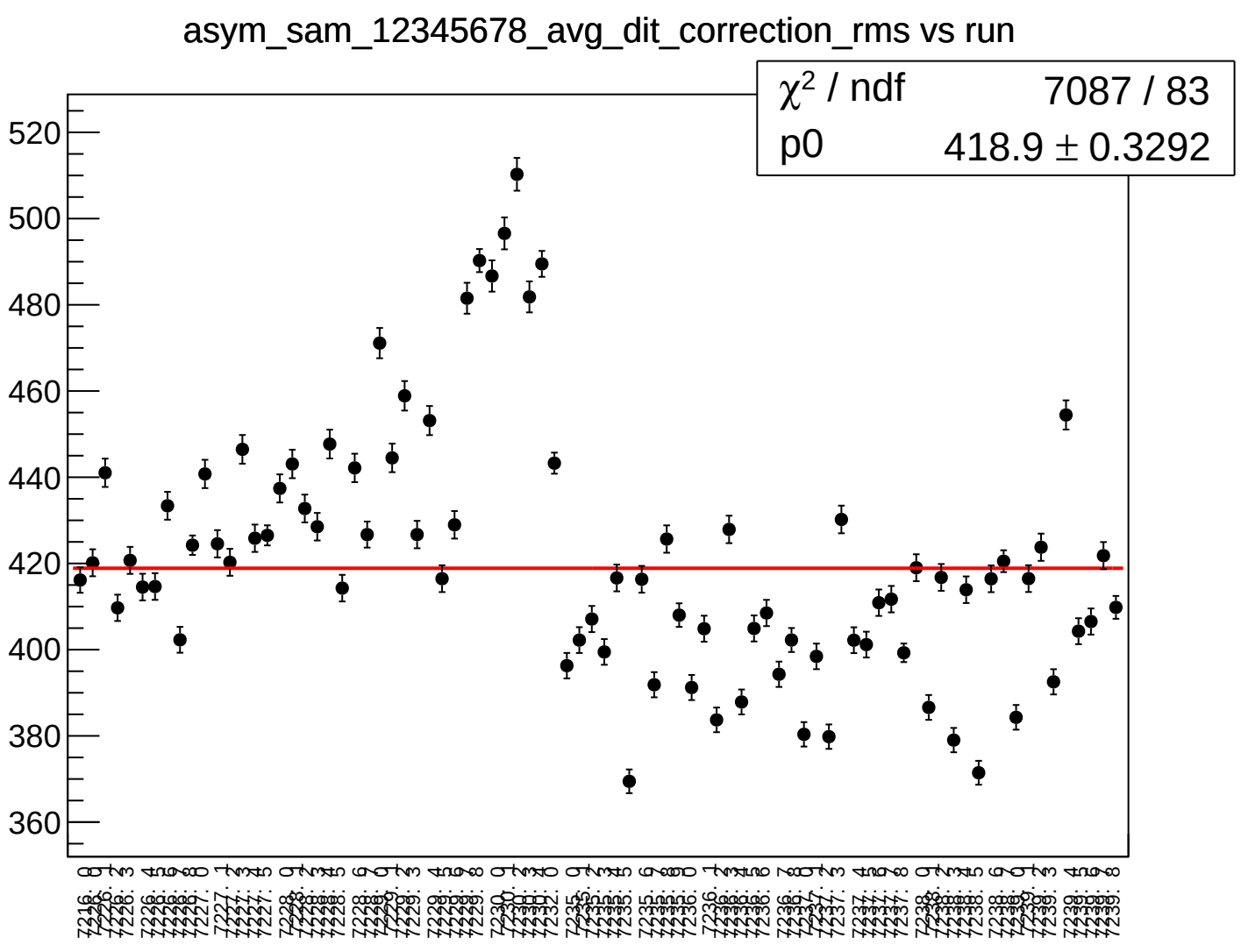

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 79.38 / 83
p0 −190.2 ± 73.22
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean 221.3
Std Dev 0
2
1
0
−1
−2

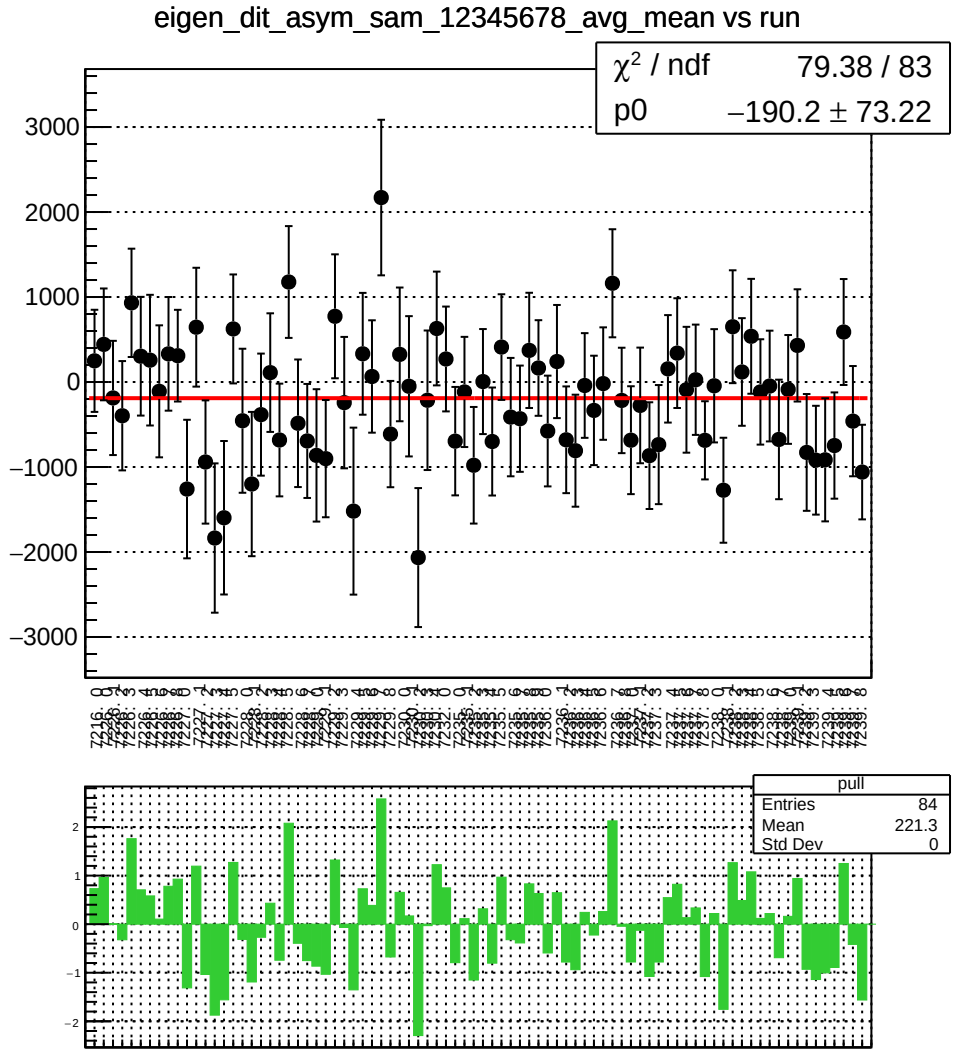

pull1D
Entries 84
Mean −0.01521
Std Dev 0.972
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

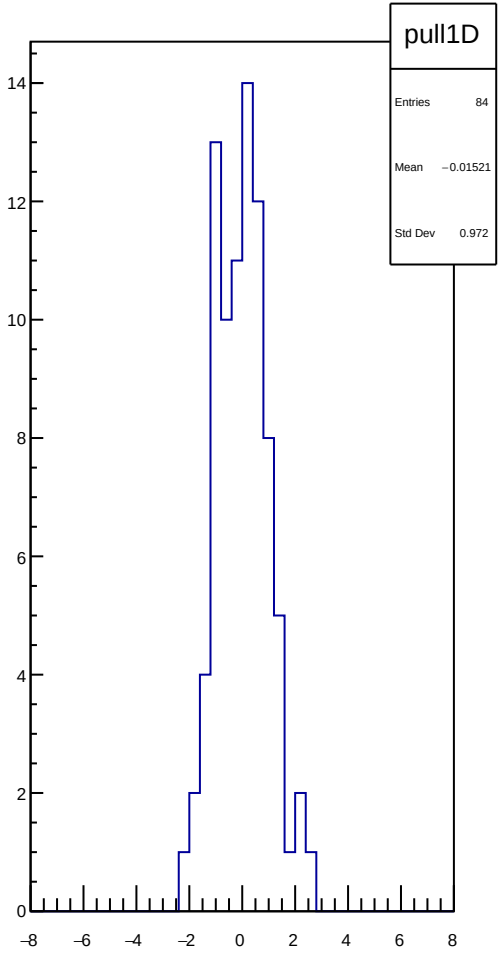

dit_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 2.003e+04 / 83
p0 65.62 ± 0.05177
95
90
85
80
75
70
65
60
55

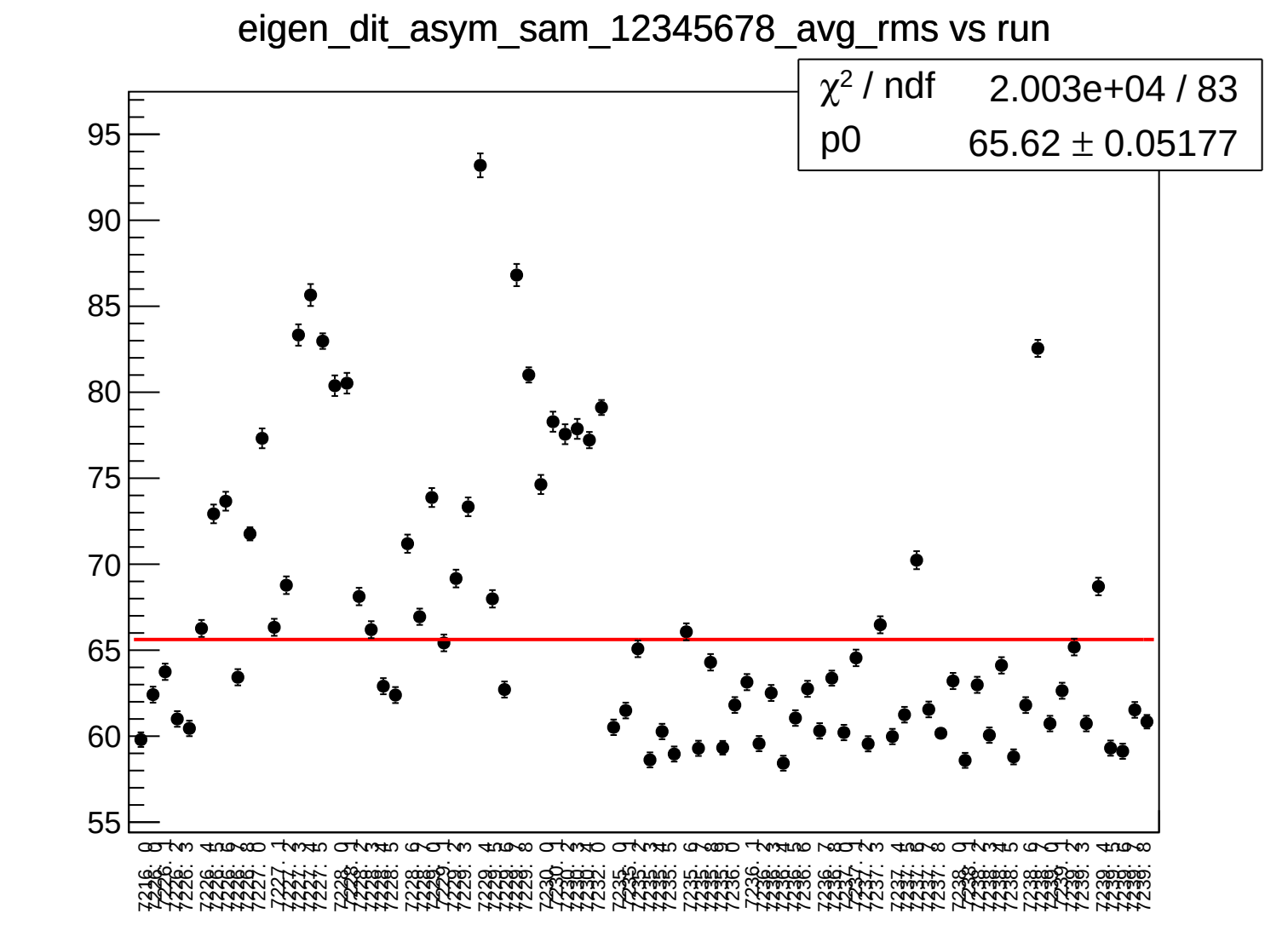

asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 78.83 / 83
p0 −823.6 ± 465.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 56.99
Std Dev 0
2
1
0
−1
−2

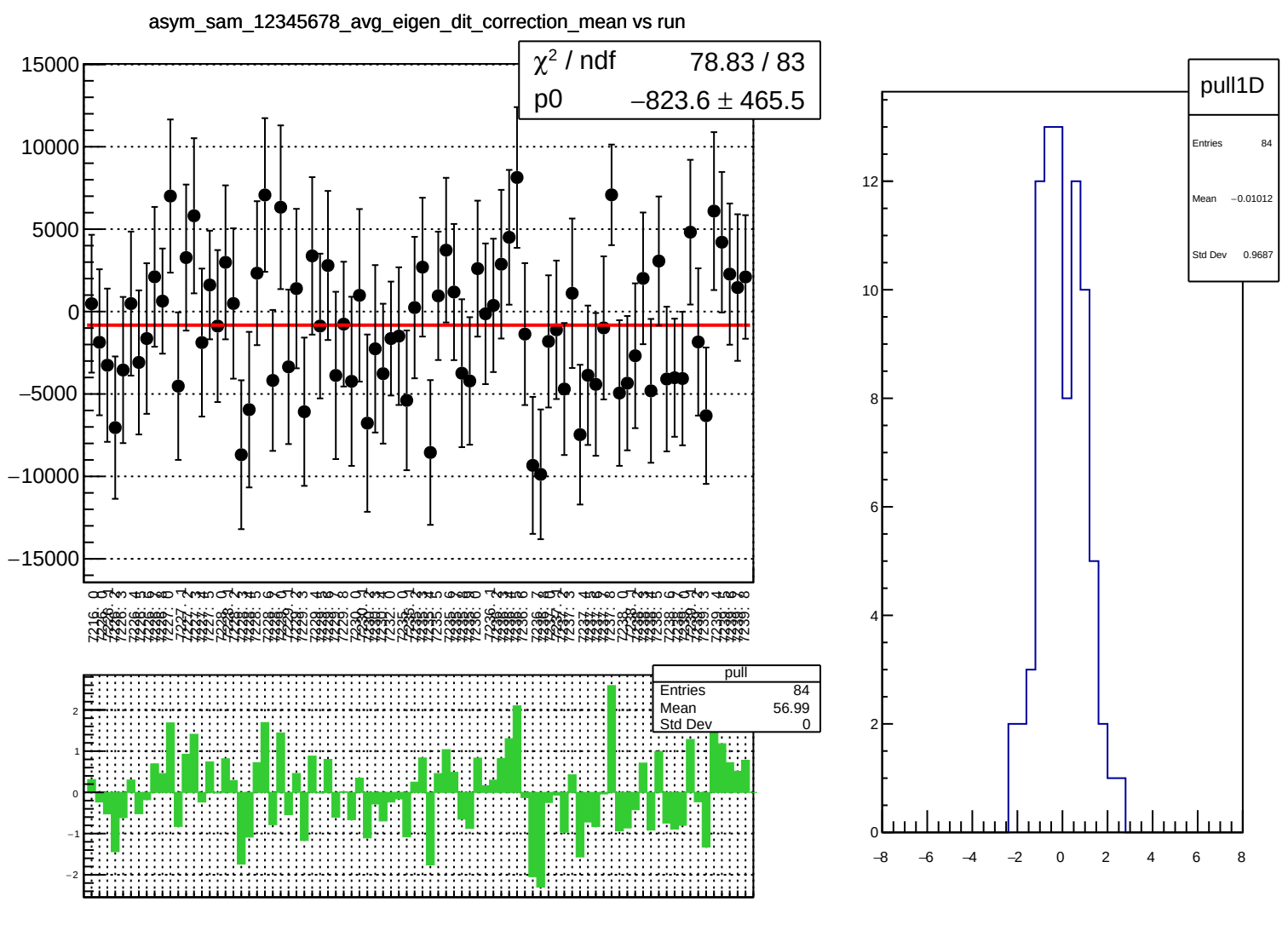

pull1D
Entries 84
Mean −0.01012
Std Dev 0.9687
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

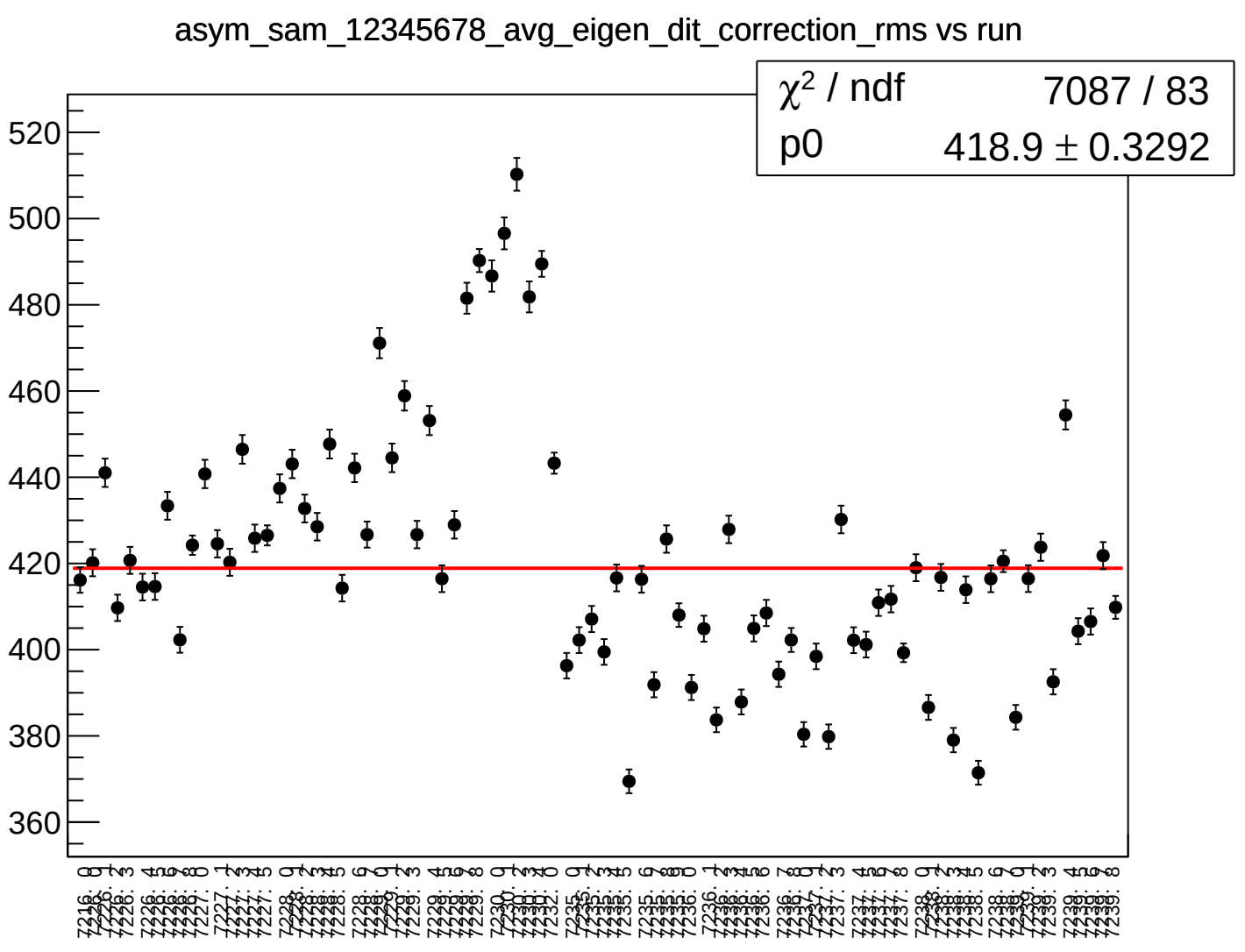

asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 7087 / 83
p0 418.9 ± 0.3292
520
500
480
460
440
420
400
380
360

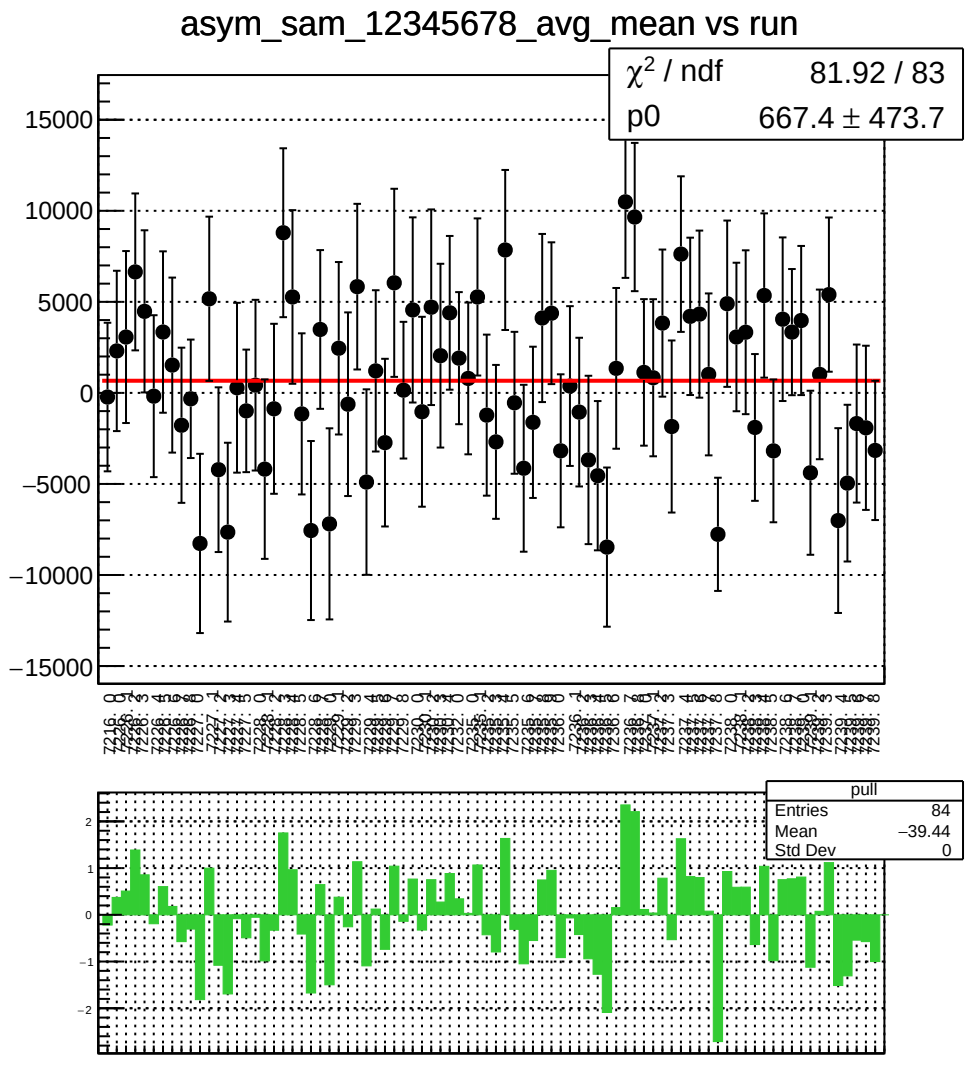

eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 79.38 / 83
p0 −190.2 ± 73.22
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean 221.3
Std Dev 0
2
1
0
−1
−2

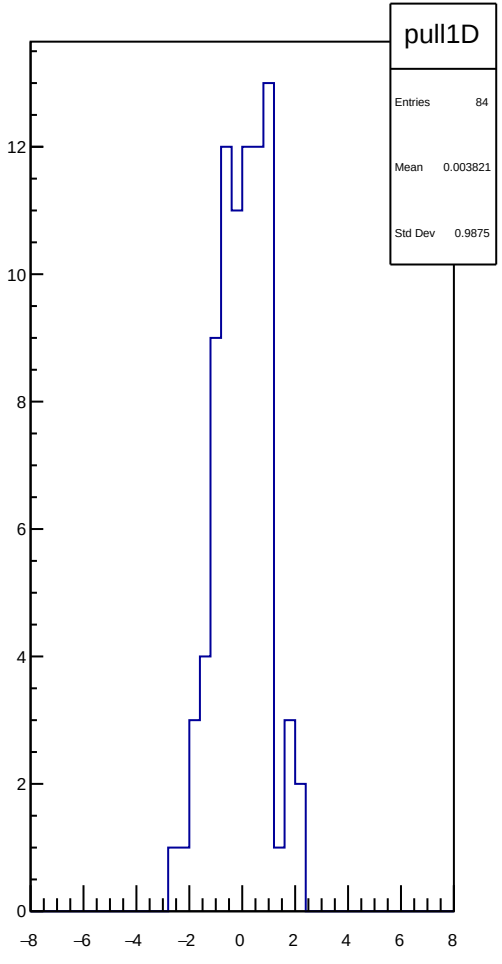

pull1D
Entries 84
Mean −0.01521
Std Dev 0.972
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

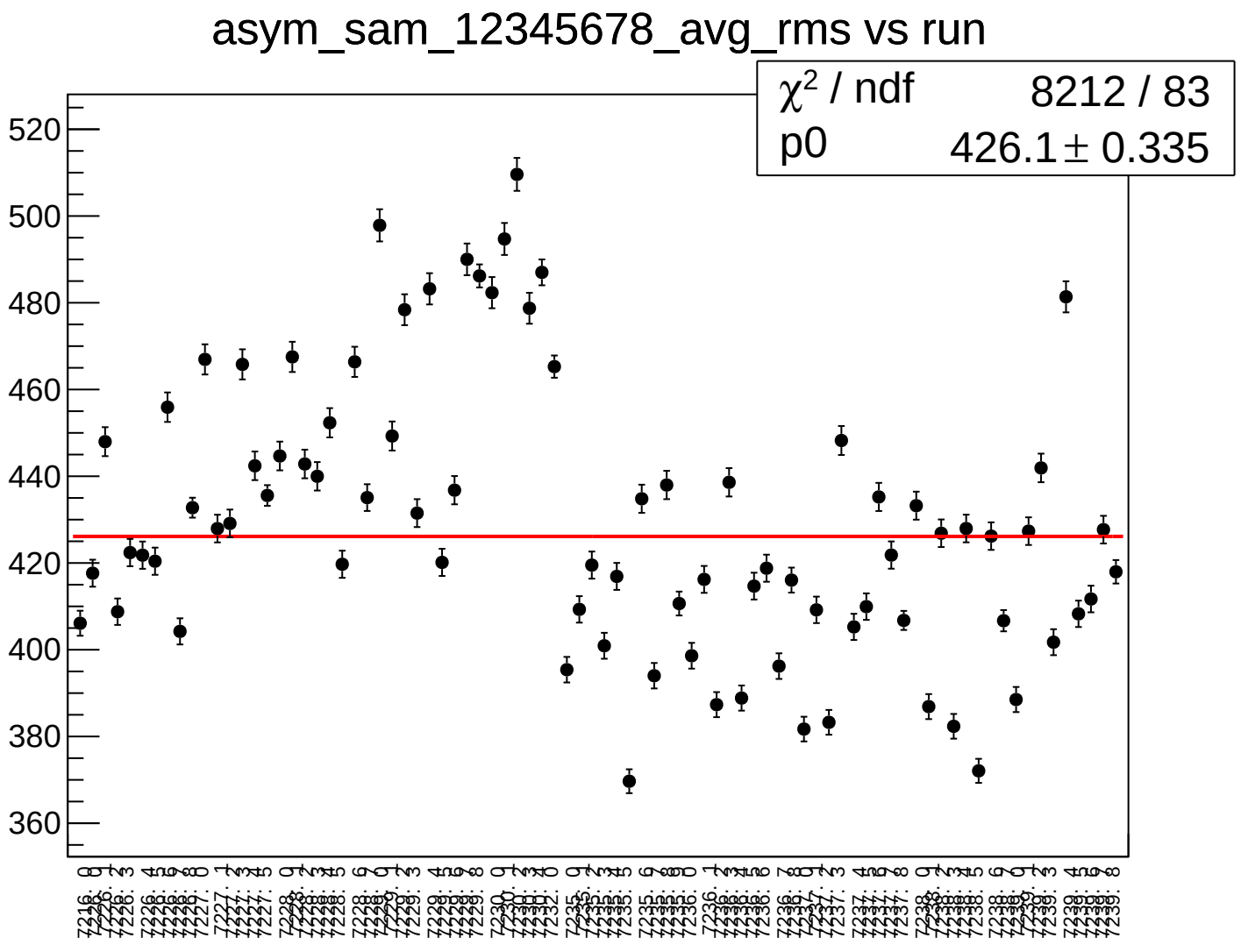

eigen_dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 2.003e+04 / 83
p0 65.62 ± 0.05177
95
90
85
80
75
70
65
60
55

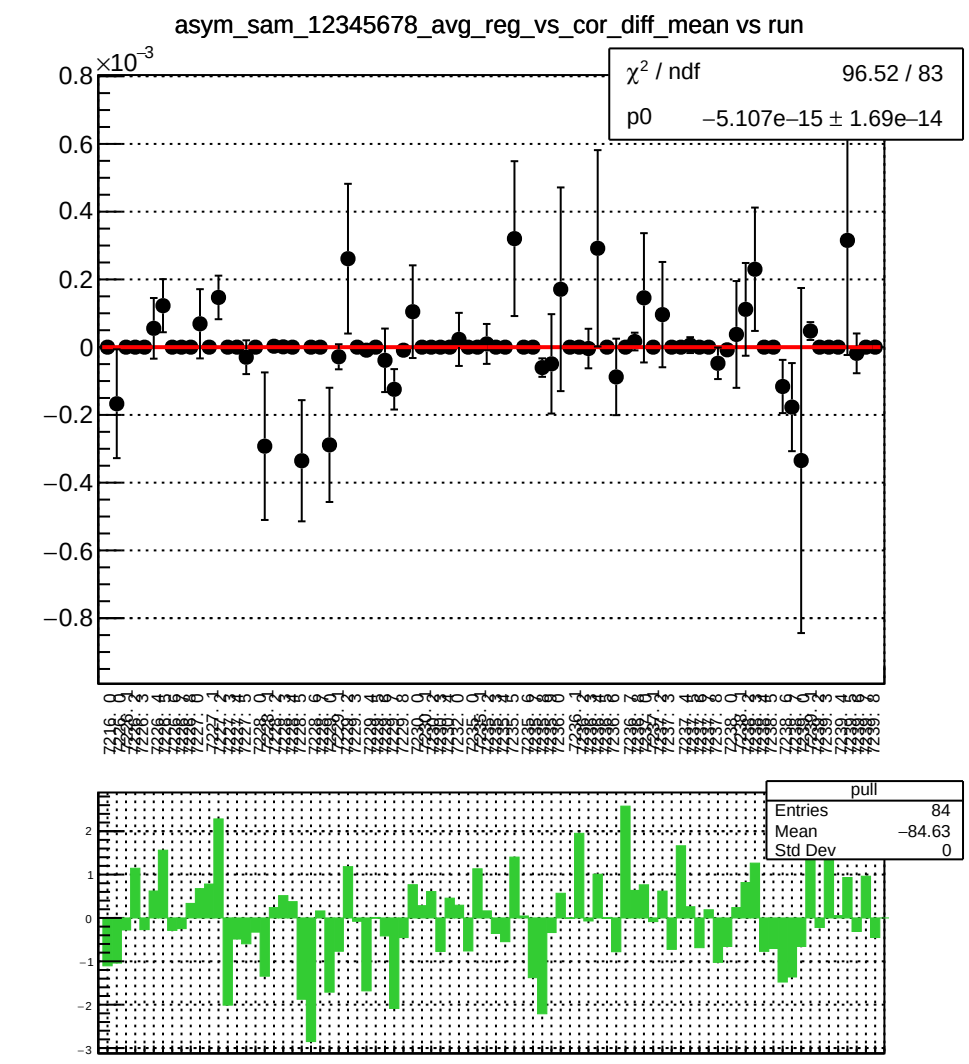

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 78.83 / 83
p0 −823.6 ± 465.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 56.99
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.01012
Std Dev 0.9687
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

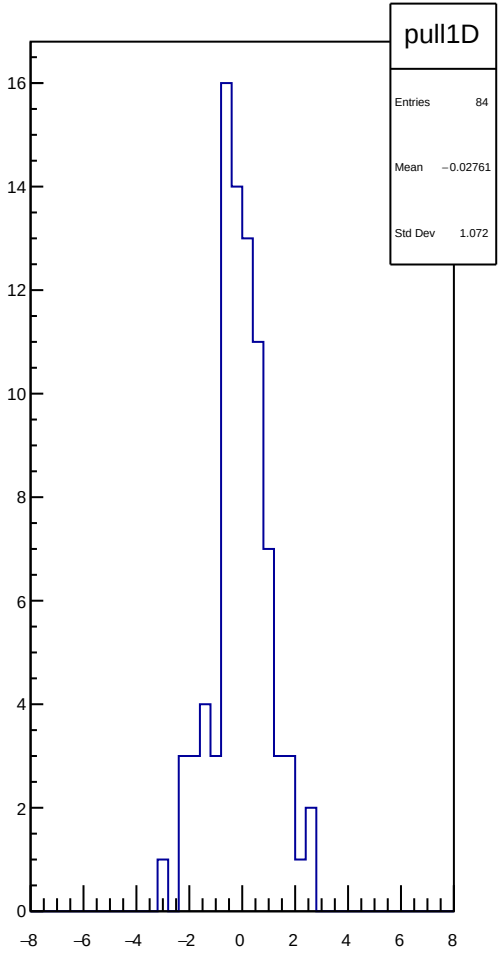

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 7087 / 83
p0 418.9 ± 0.3292
520
500
480
460
440
420
400
380
360

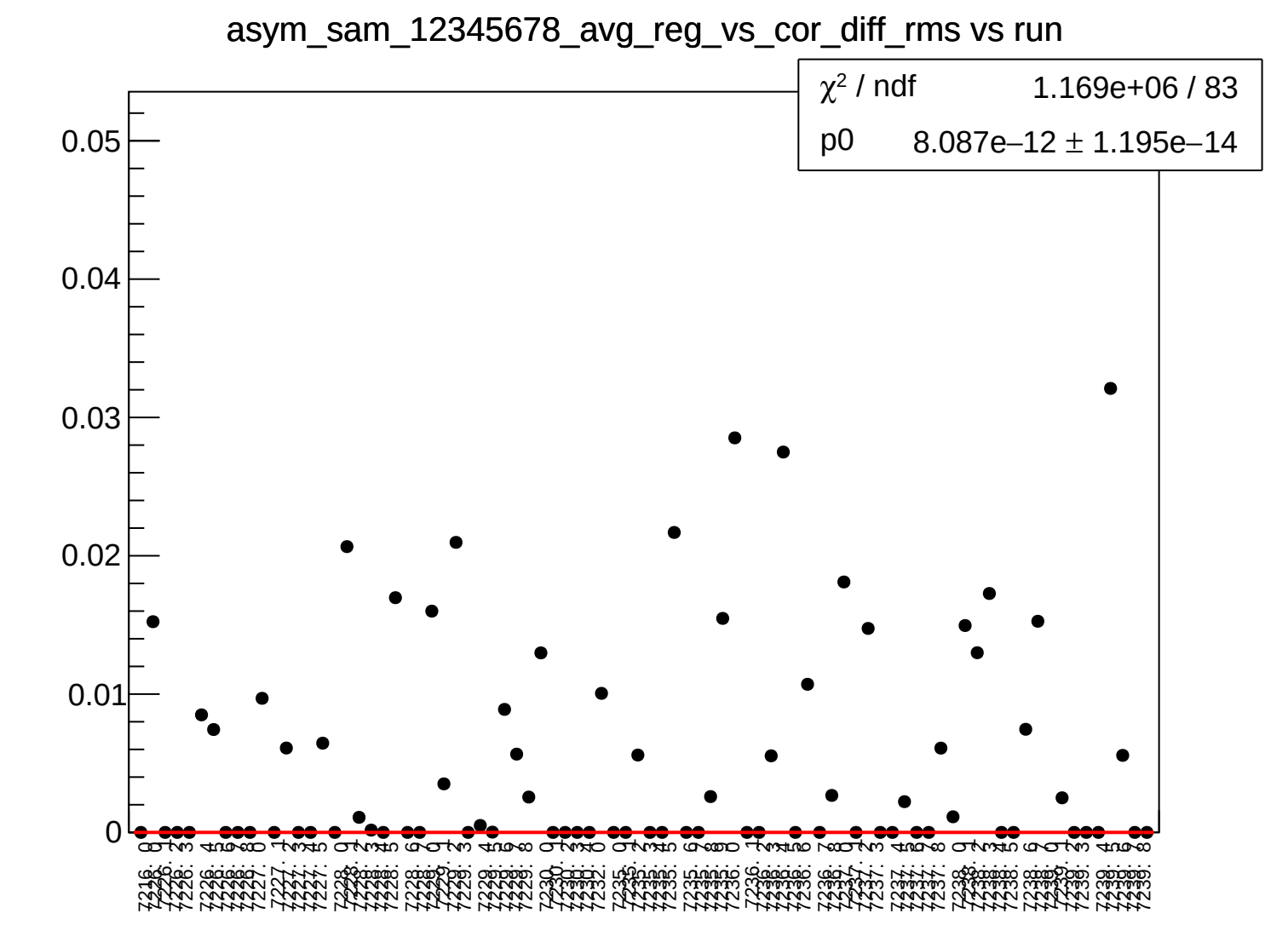

asym_sam_12345678_avg_mean vs run
χ² / ndf 81.92 / 83
p0 667.4 ± 473.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −39.44
Std Dev 0
2
1
0
−1
−2

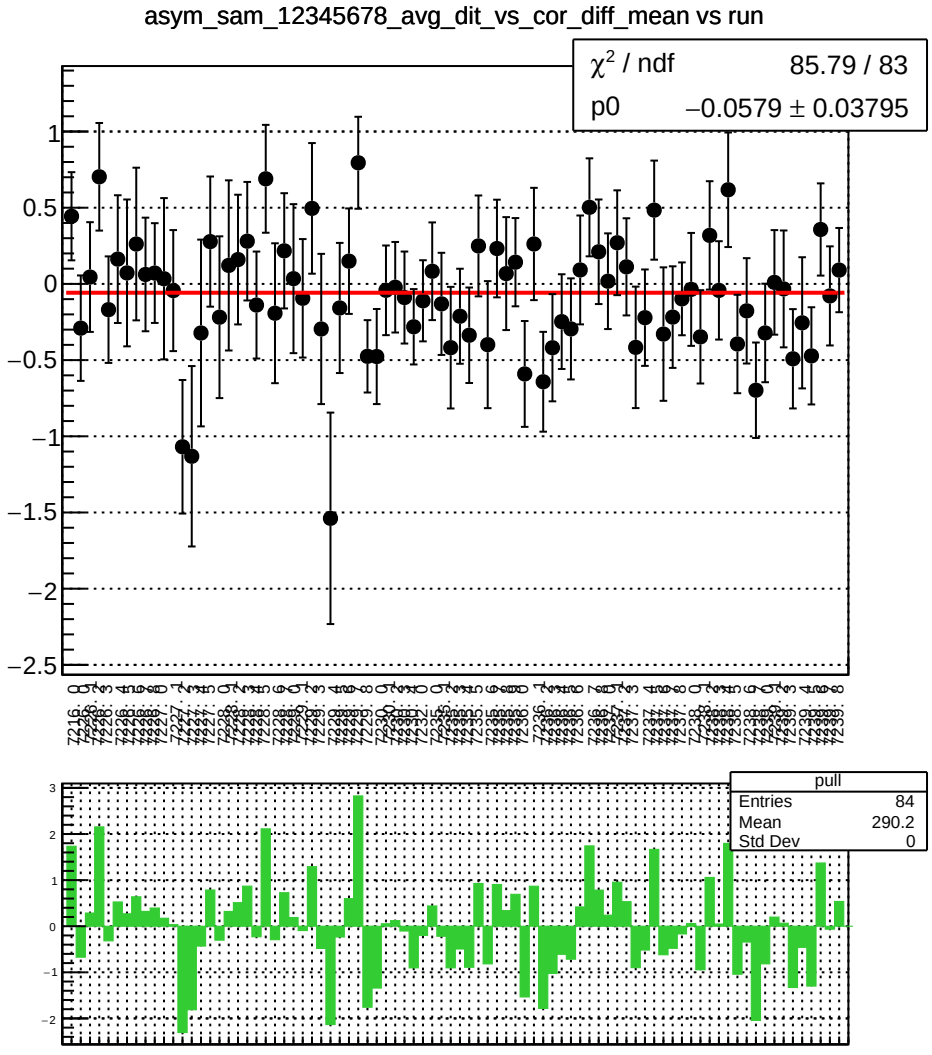

pull1D
Entries 84
Mean 0.003821
Std Dev 0.9875
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

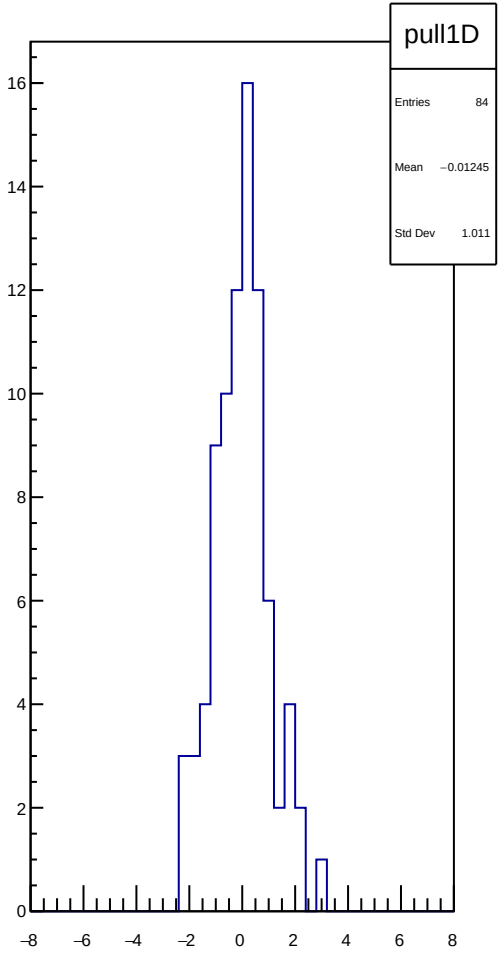

asym_sam_12345678_avg_rms vs run
χ^2 / ndf 8212 / 83
p0 426.1 ± 0.335
520
500
480
460
440
420
400
380
360

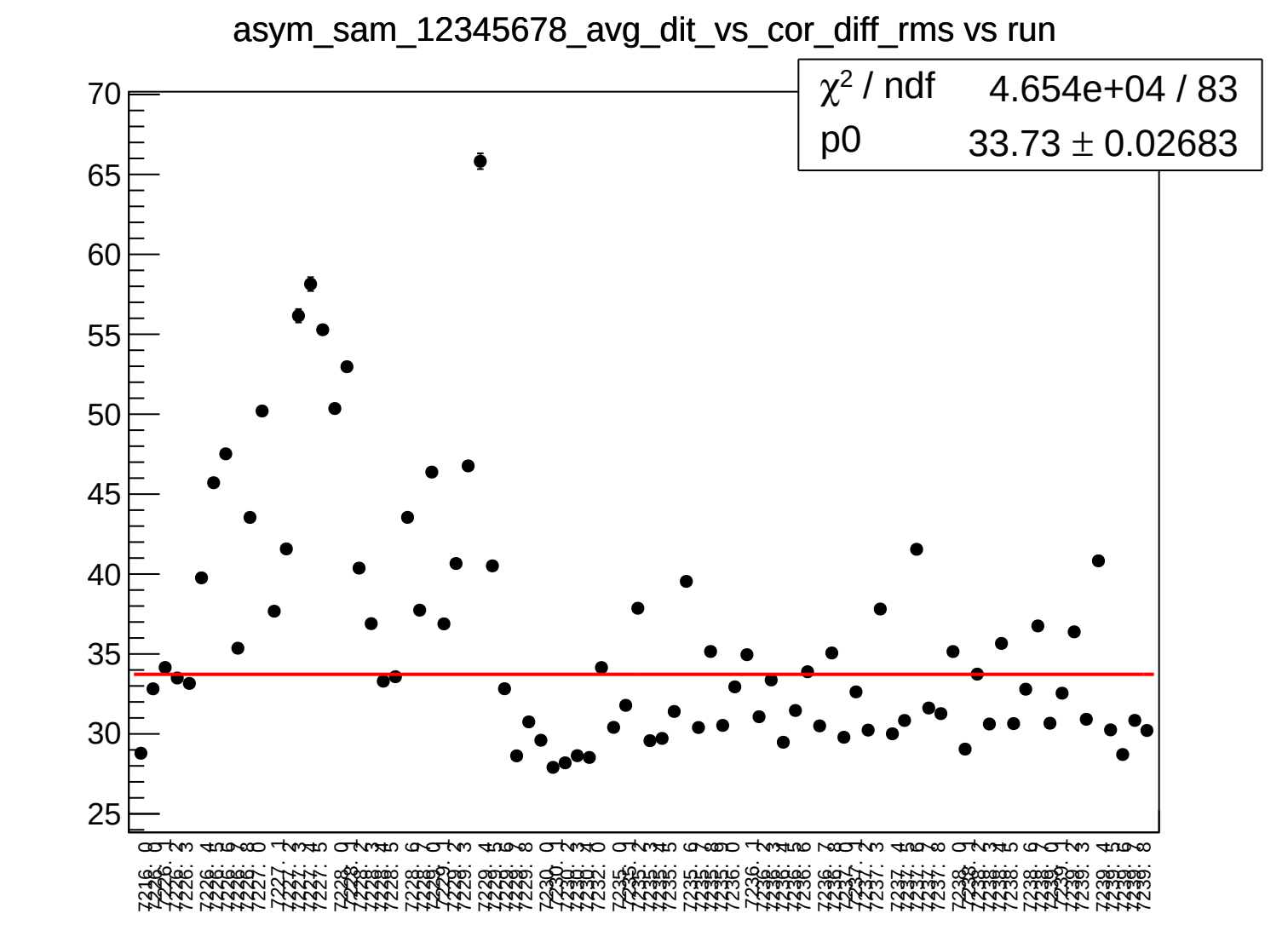

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 96.52 / 83
p0 −5.107e−15 ± 1.69e−14
pull
Entries 84
Mean −84.63
Std Dev 0

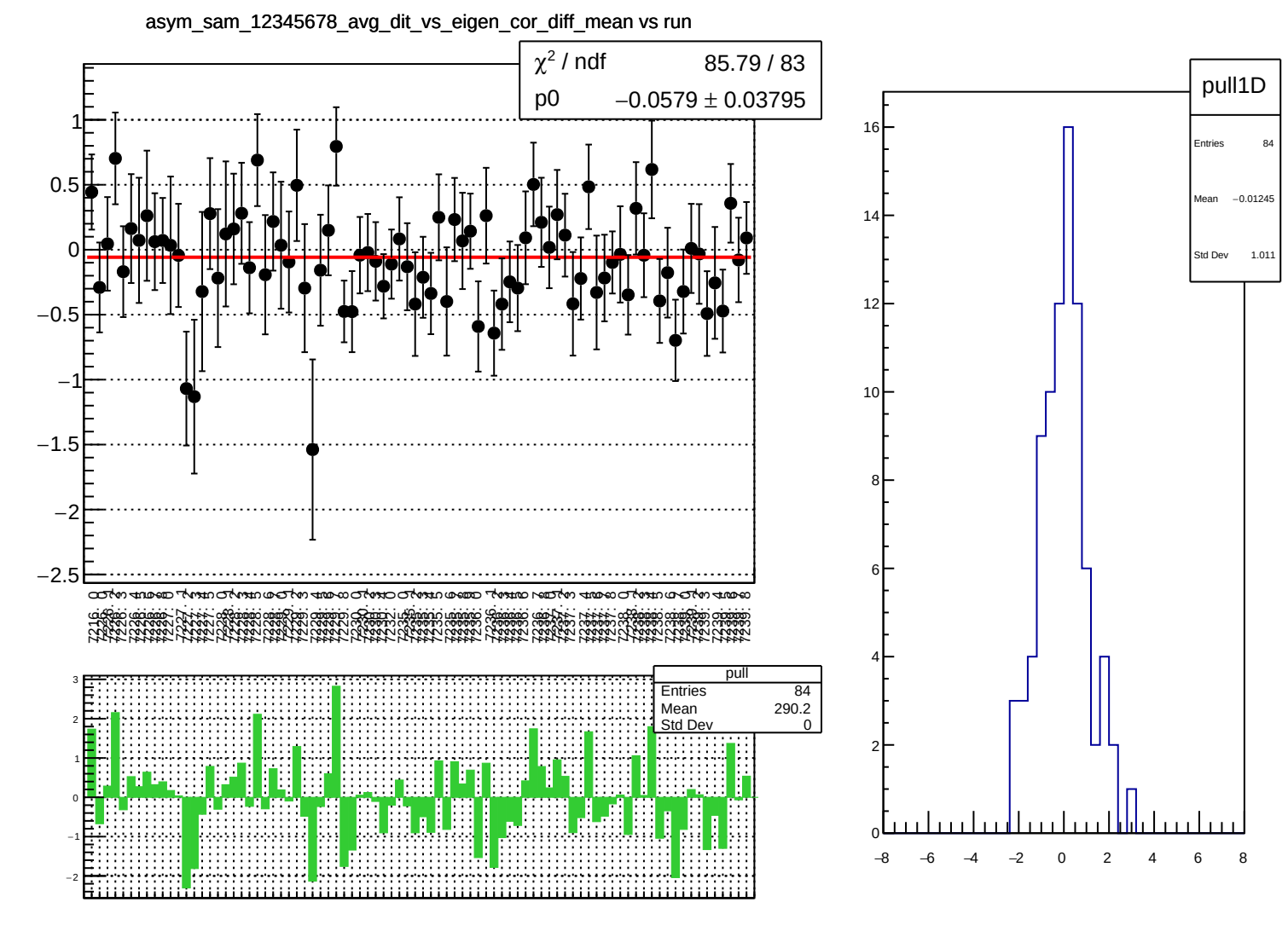

pull1D
Entries 84
Mean −0.02761
Std Dev 1.072

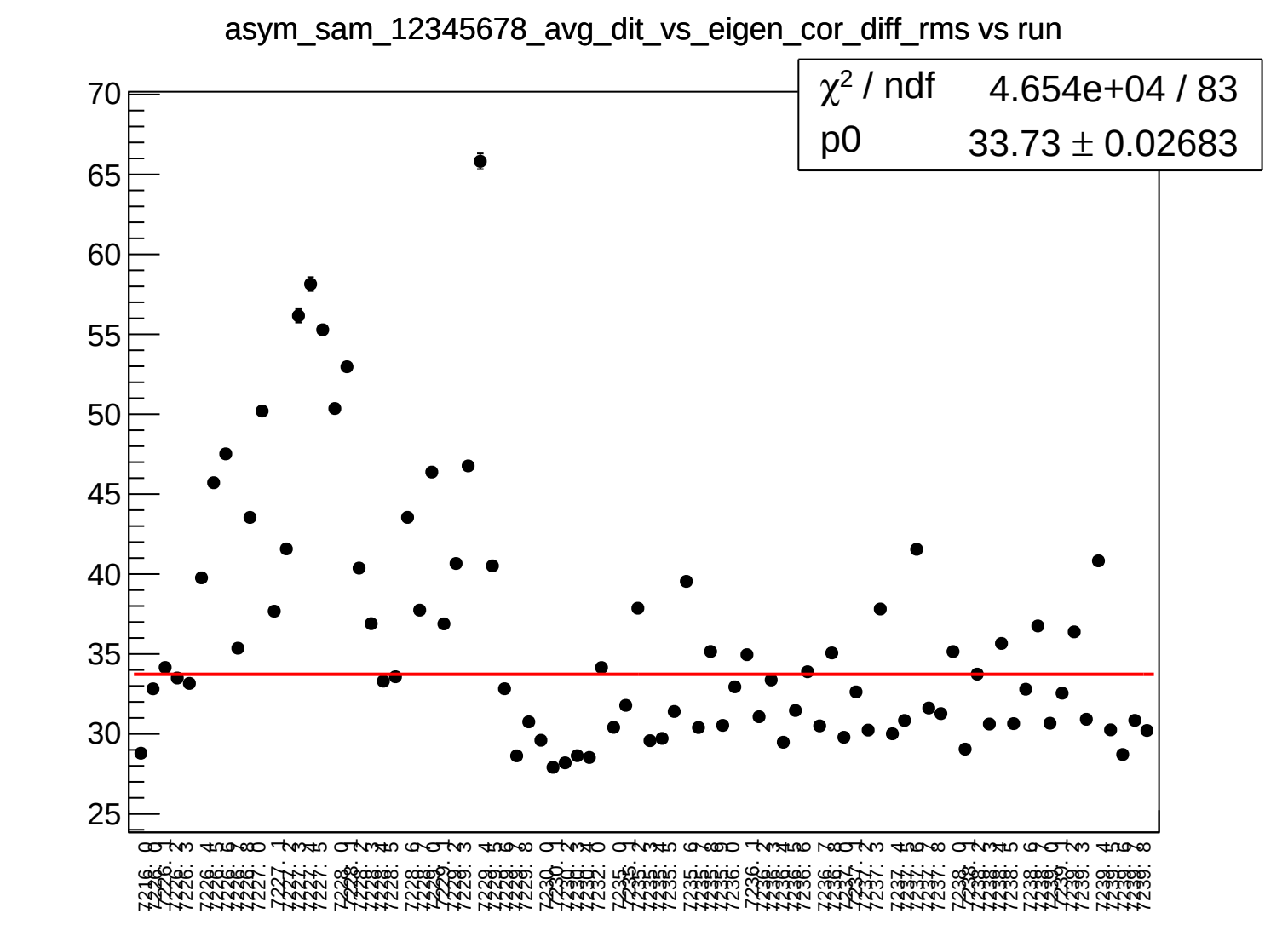

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.169e+06 / 83
p0 8.087e−12 ± 1.195e−14
0.05
0.04
0.03
0.02
0.01
0

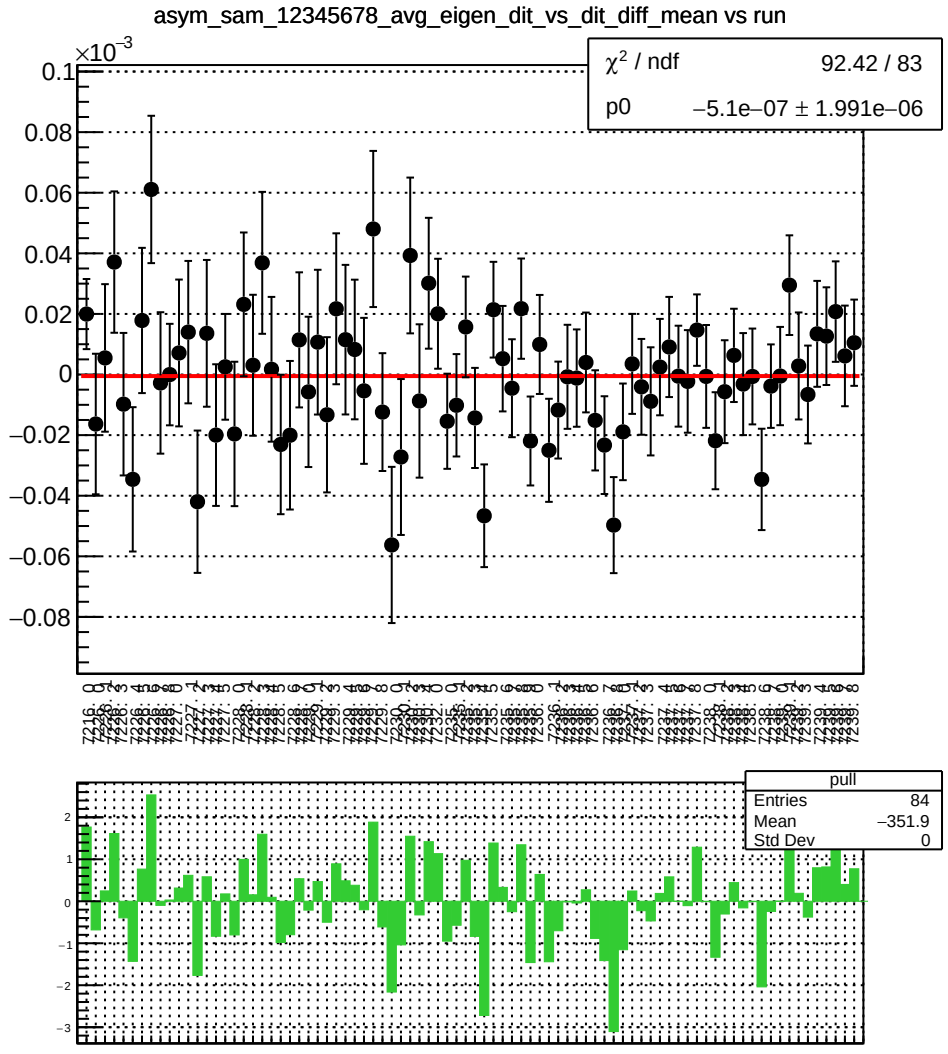

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 85.79 / 83
p0 −0.0579 ± 0.03795
pull
Entries 84
Mean 290.2
Std Dev 0

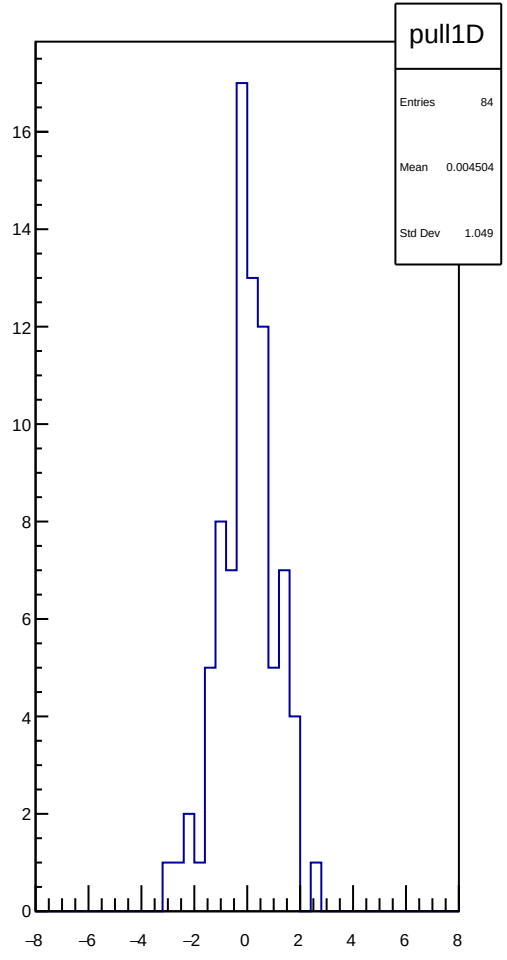

pull1D
Entries 84
Mean −0.01245
Std Dev 1.011

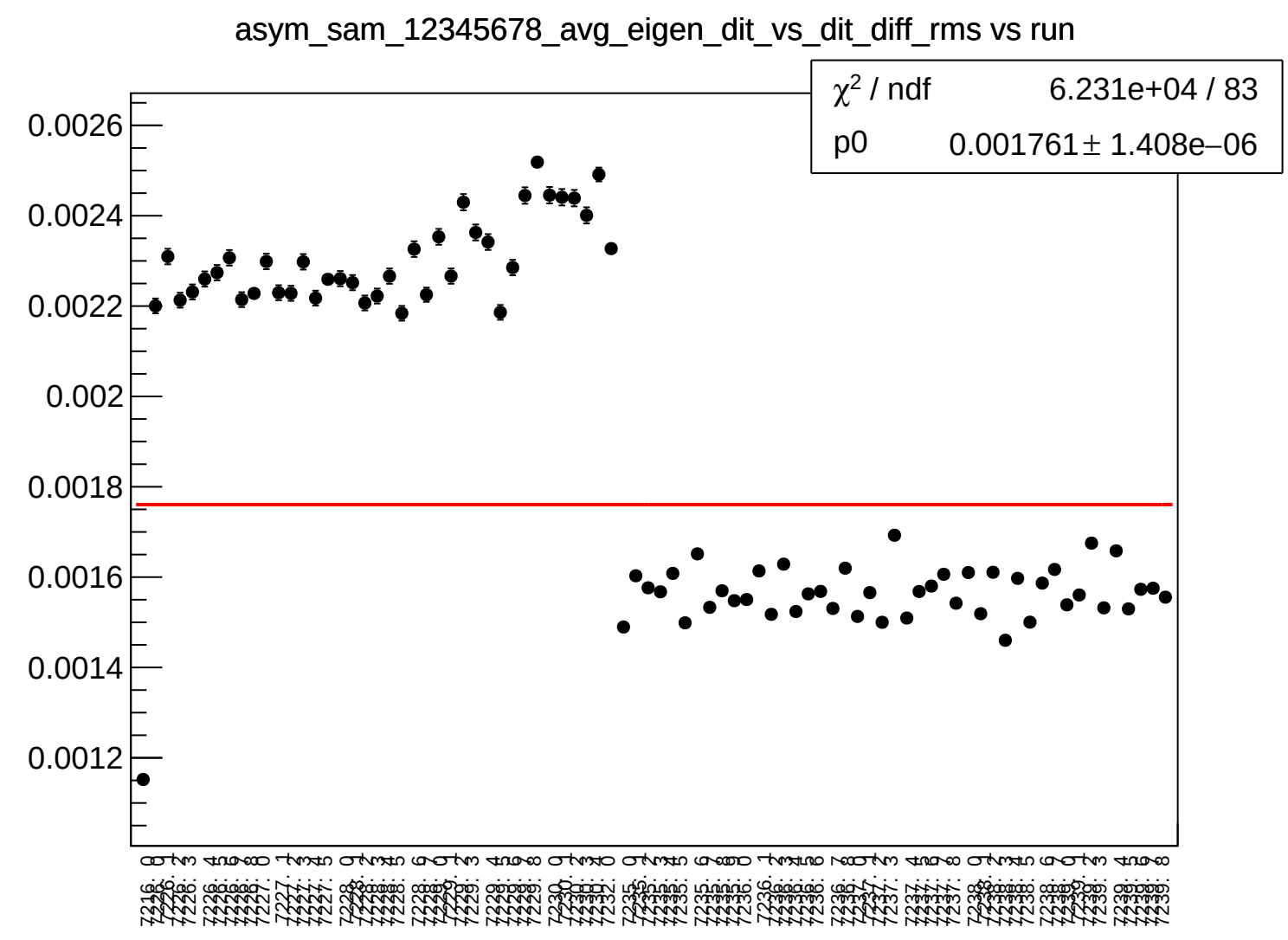

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.654e+04 / 83
p0 33.73 ± 0.02683
70
65
60
55
50
45
40
35
30
25

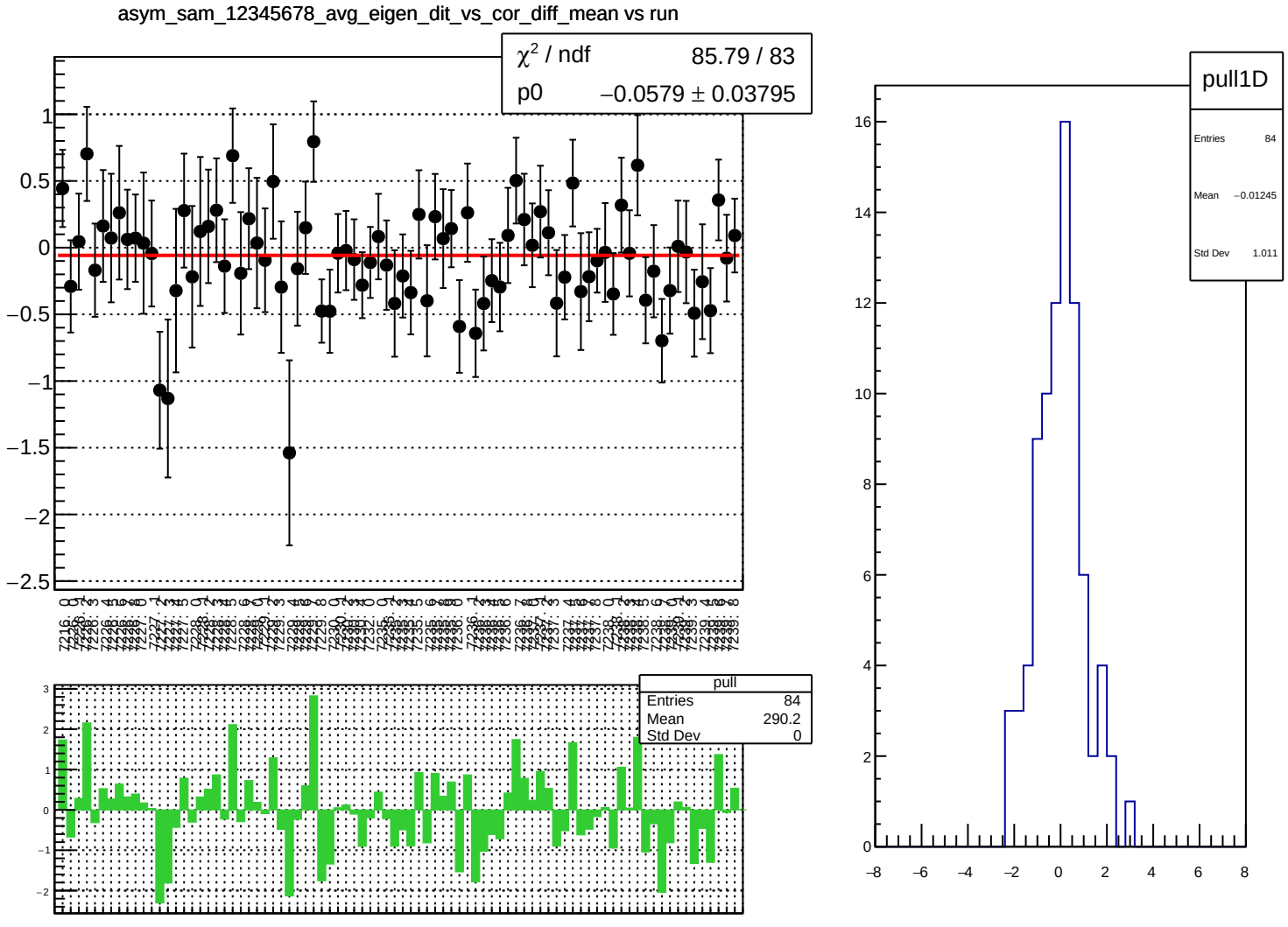

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.79 / 83
p0 −0.0579 ± 0.03795
pull
Entries 84
Mean 290.2
Std Dev 0
pull1D
Entries 84
Mean −0.01245
Std Dev 1.011

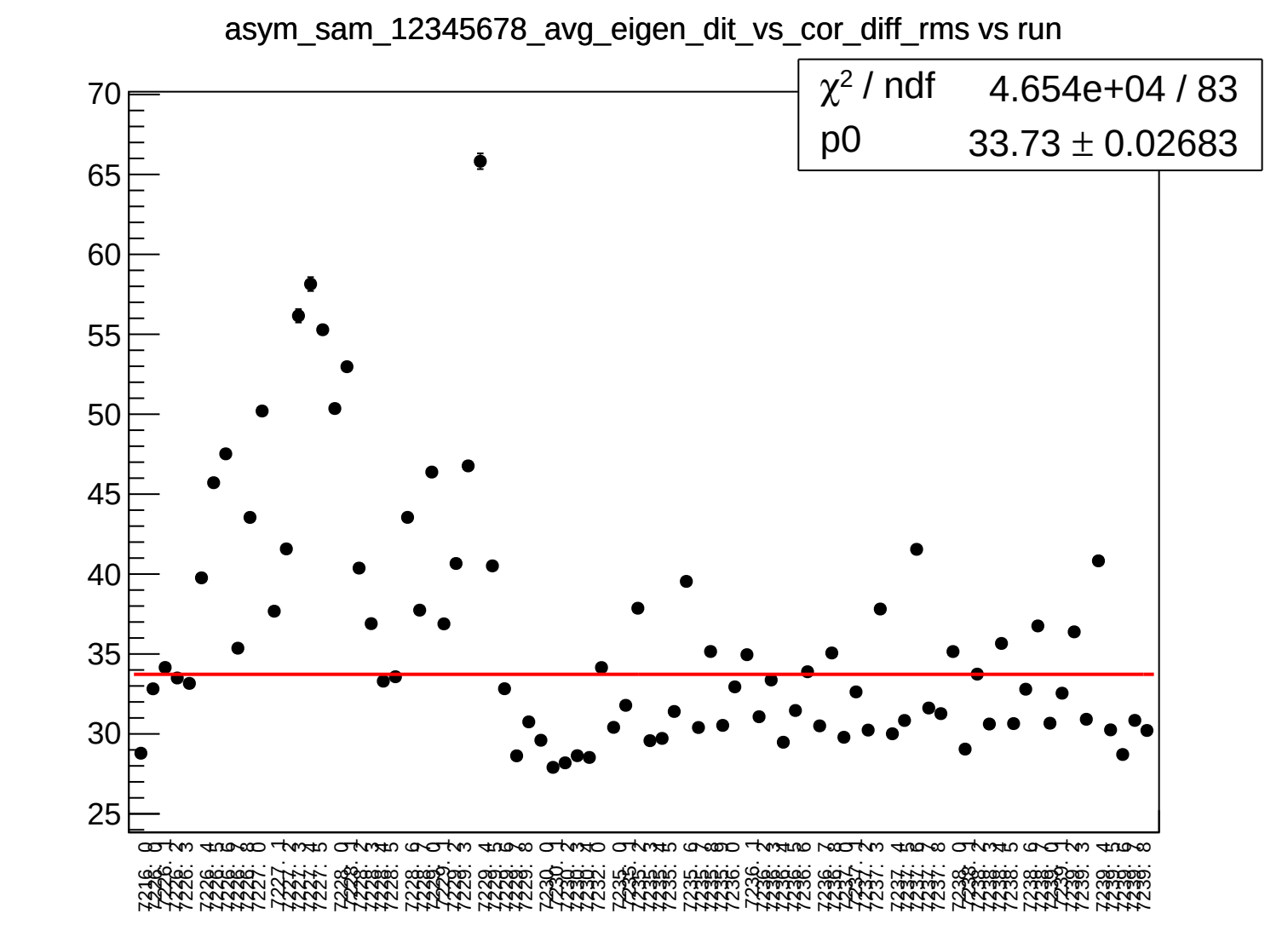

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.654e+04 / 83
p0 33.73 ± 0.02683
70
65
60
55
50
45
40
35
30
25

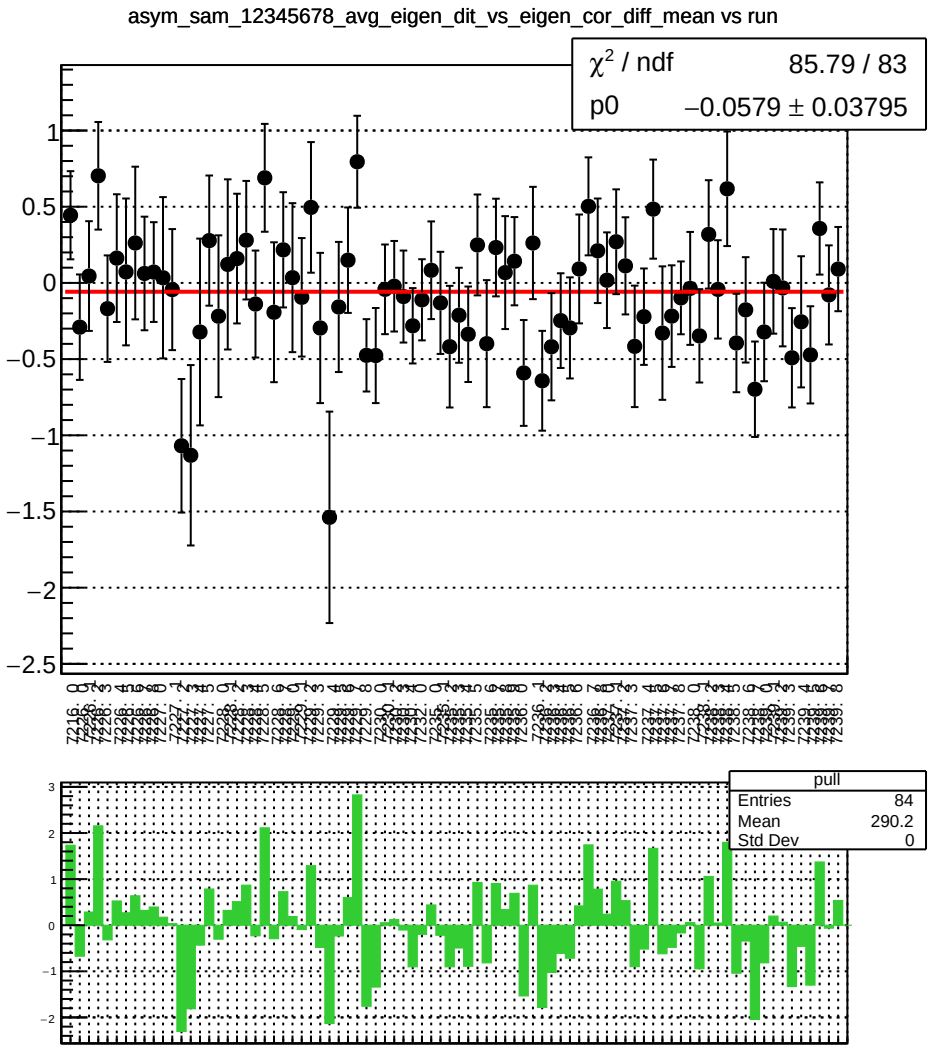

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.42 / 83
p0 −5.1e−07 ± 1.991e−06
pull
Entries 84
Mean −351.9
Std Dev 0

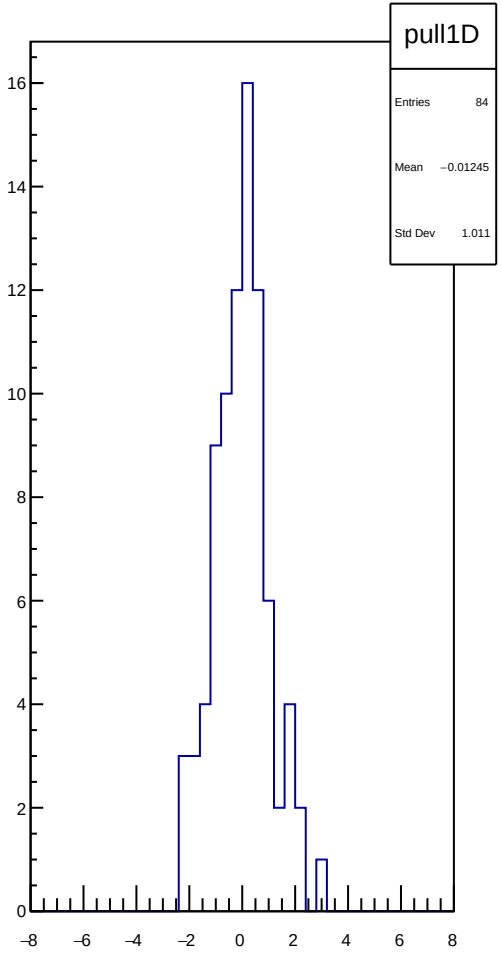

pull1D
Entries 84
Mean 0.004504
Std Dev 1.049

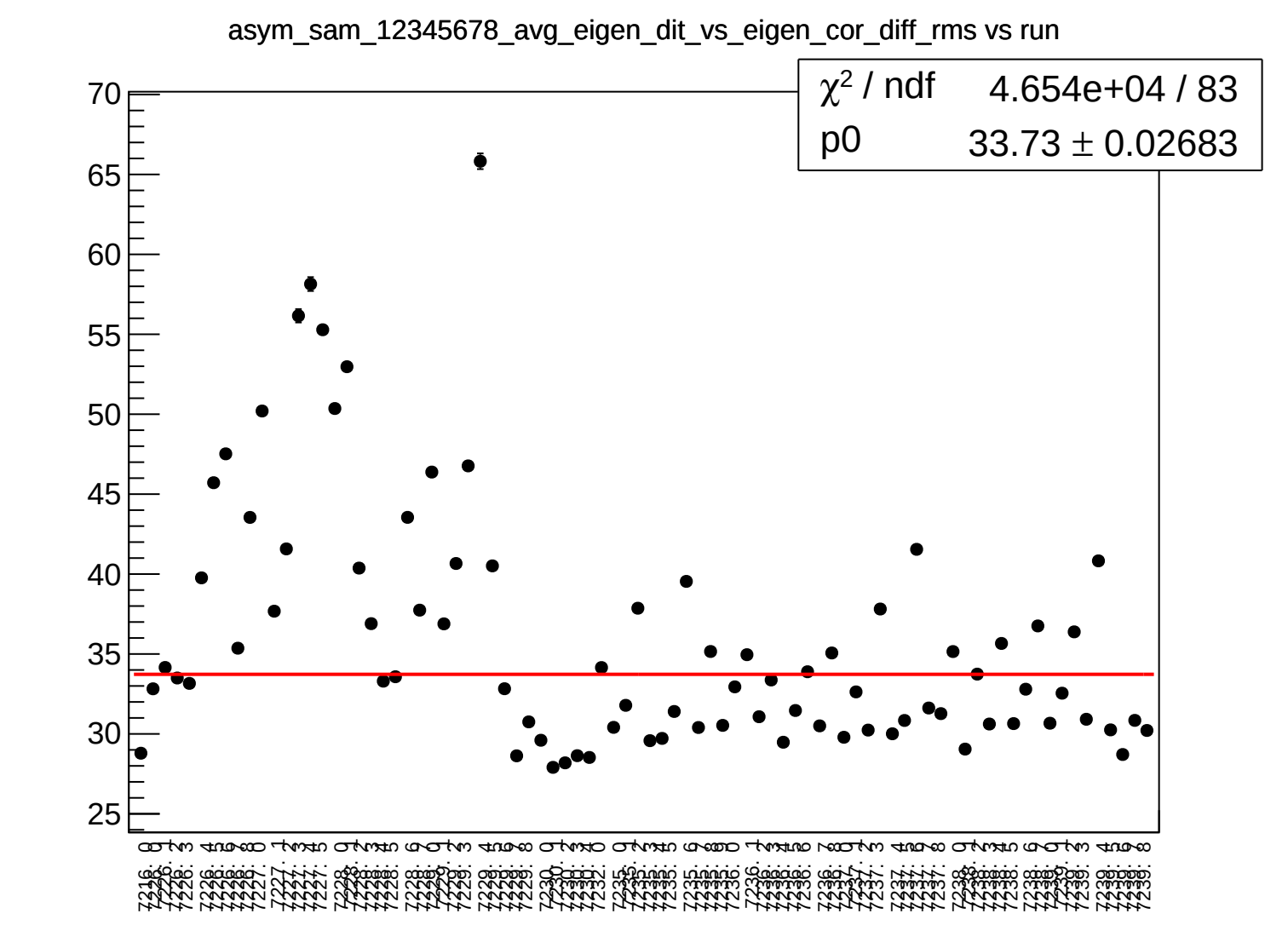

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.231e+04 / 83
p0 0.001761 ± 1.408e−06
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012

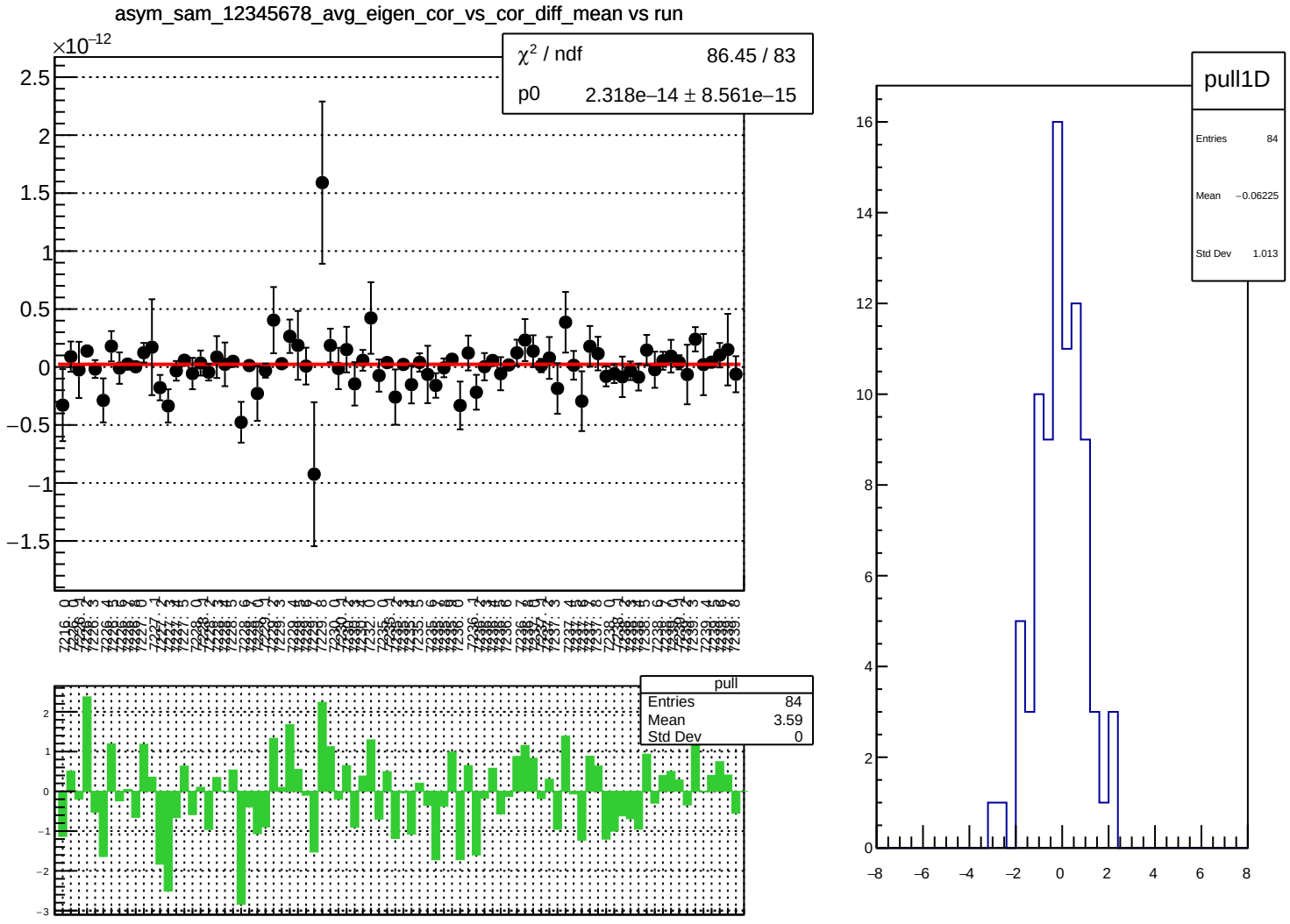

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.79 / 83
p0 −0.0579 ± 0.03795
pull
Entries 84
Mean 290.2
Std Dev 0
pull1D
Entries 84
Mean −0.01245
Std Dev 1.011

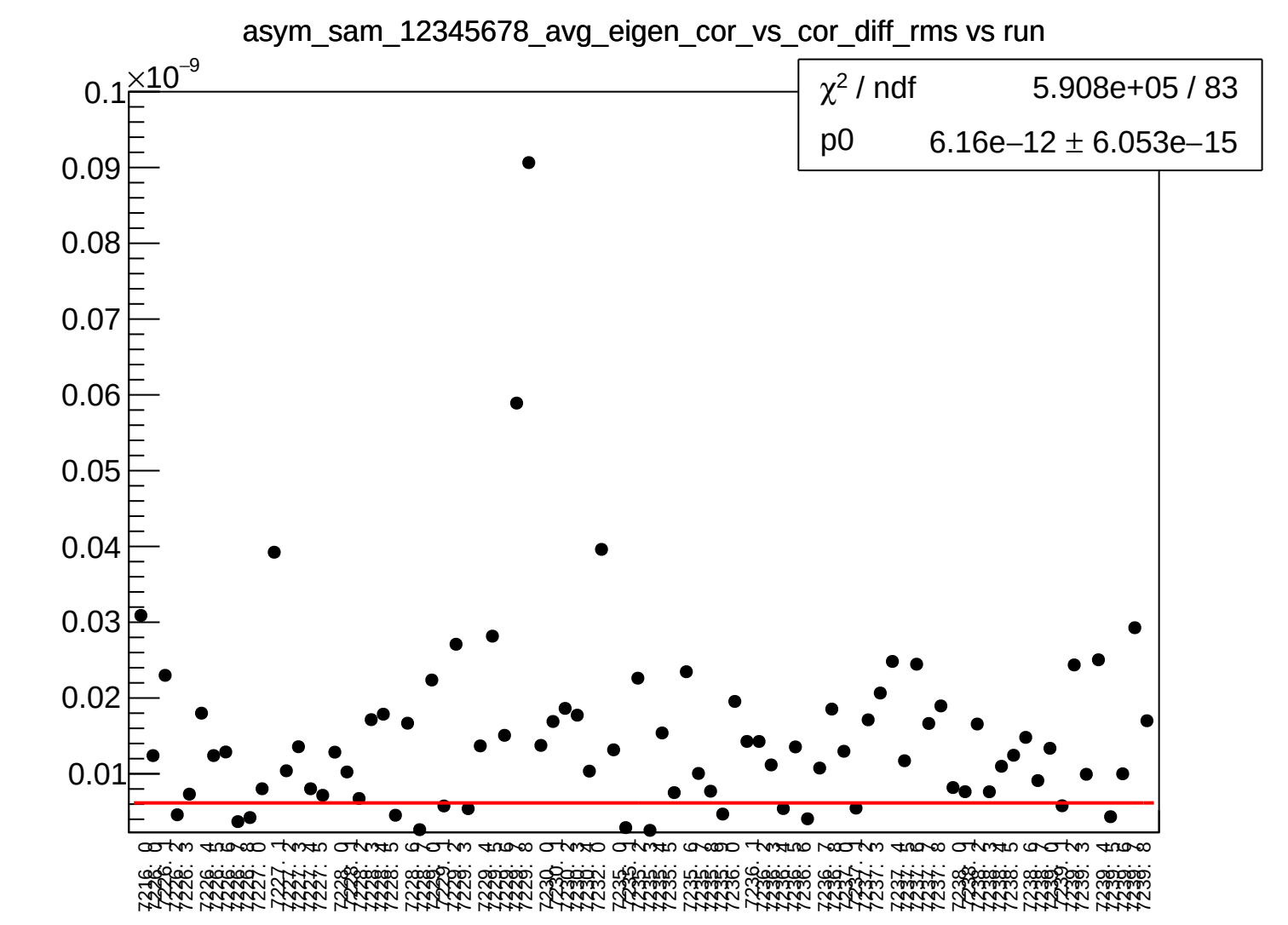

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.654e+04 / 83
p0 33.73 ± 0.02683
70
65
60
55
50
45
40
35
30
25

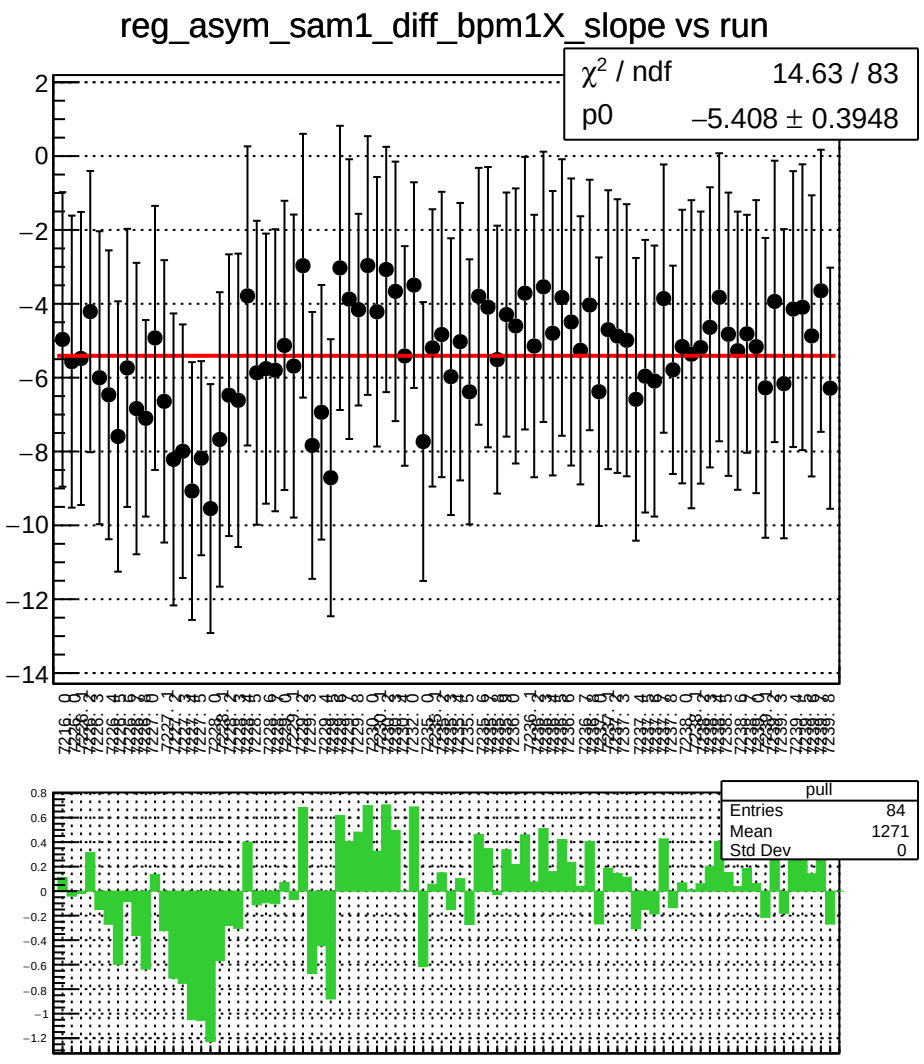

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.79 / 83
p0 −0.0579 ± 0.03795
pull
Entries 84
Mean 290.2
Std Dev 0

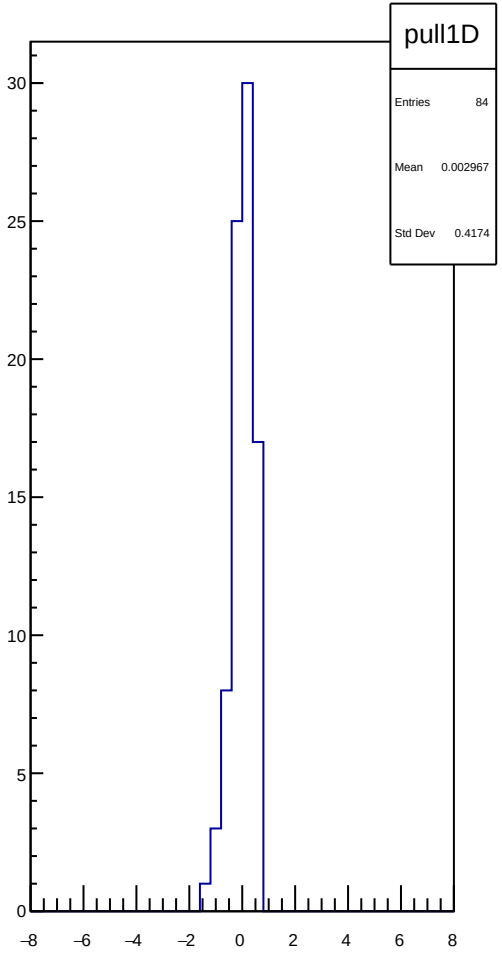

pull1D
Entries 84
Mean −0.01245
Std Dev 1.011

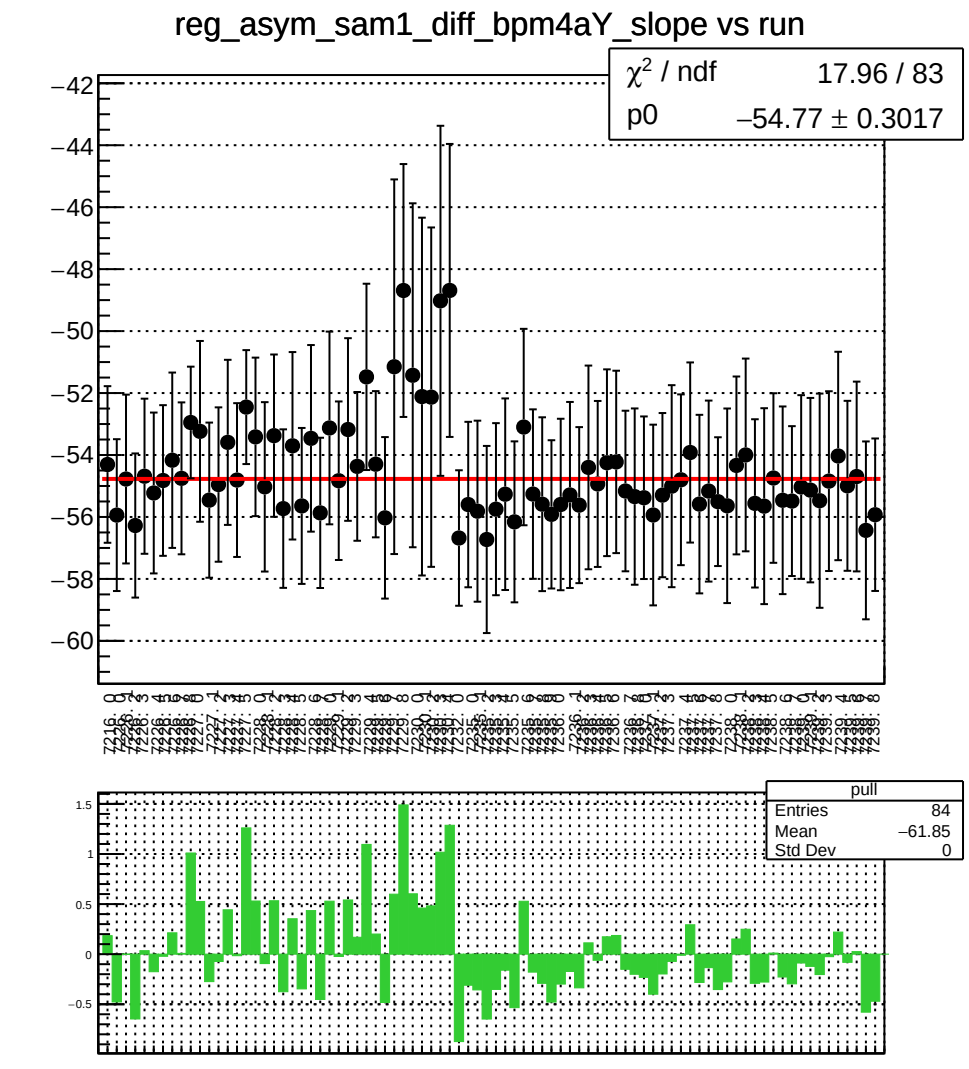

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 4.654e+04 / 83
p0 33.73 ± 0.02683
70
65
60
55
50
45
40
35
30
25

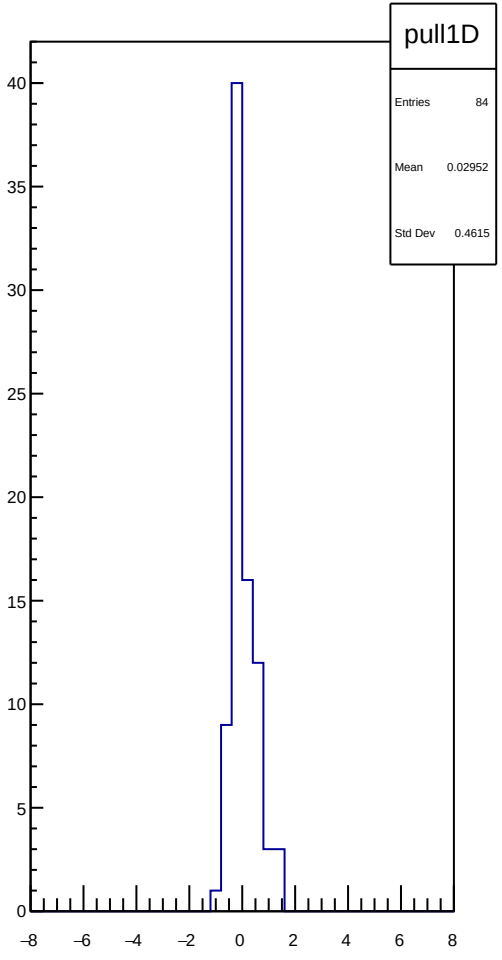

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.45 / 83
p0 2.318e−14 ± 8.561e−15
pull
Entries 84
Mean 3.59
Std Dev 0
pull1D
Entries 84
Mean −0.06225
Std Dev 1.013

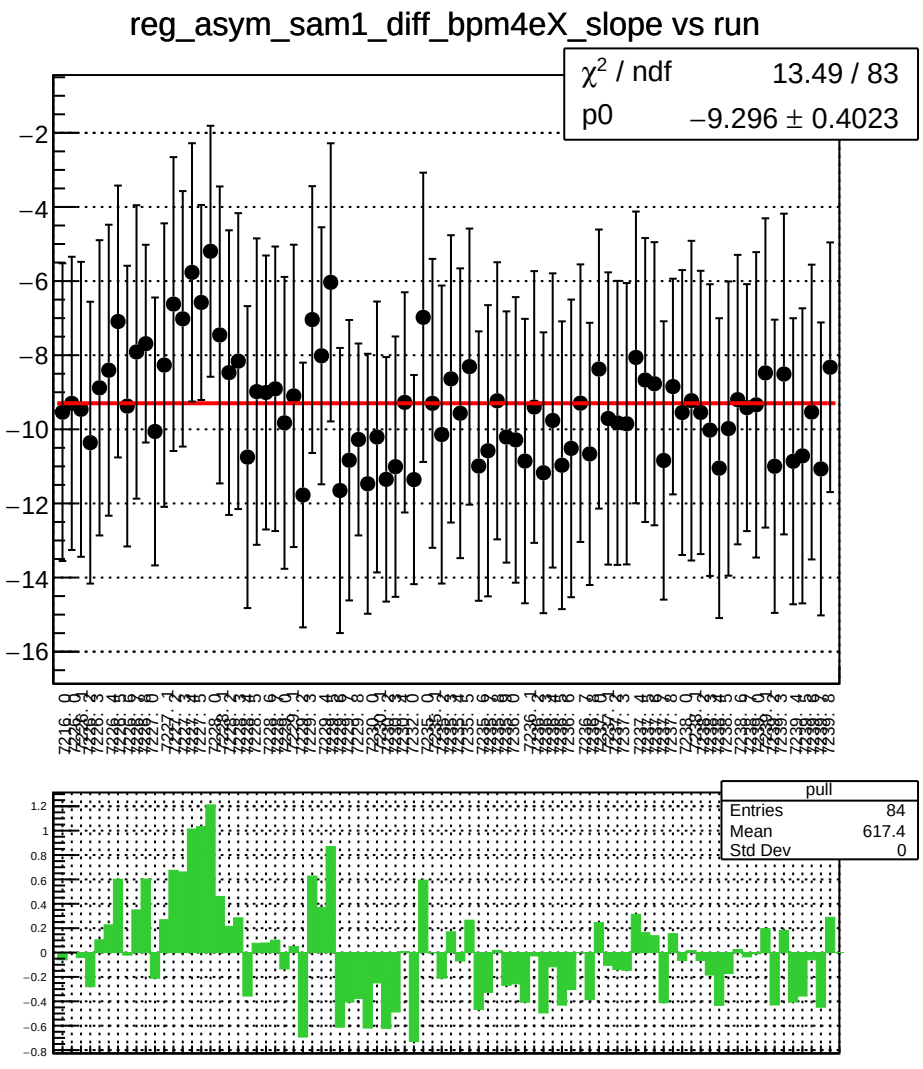

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
χ² / ndf 5.908e+05 / 83
p0 6.16e−12 ± 6.053e−15

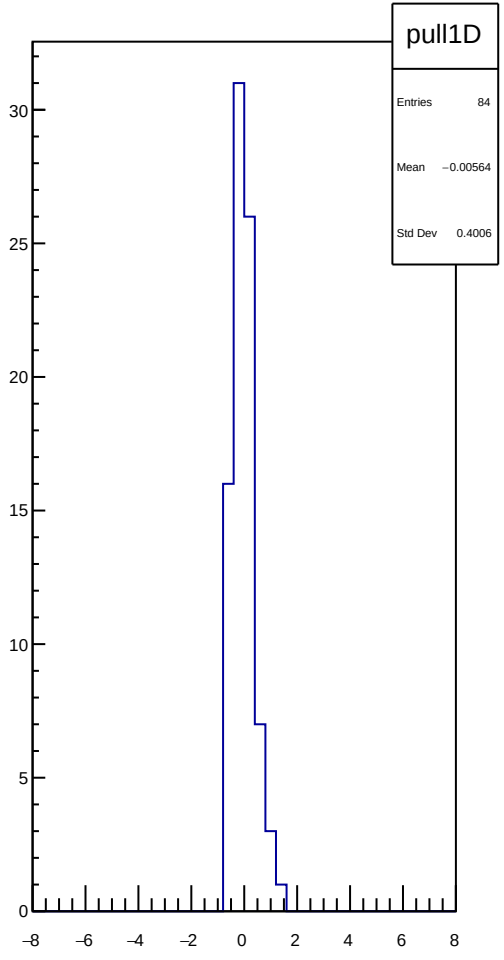

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 14.63 / 83
p0 −5.408 ± 0.3948
pull
Entries 84
Mean 1271
Std Dev 0

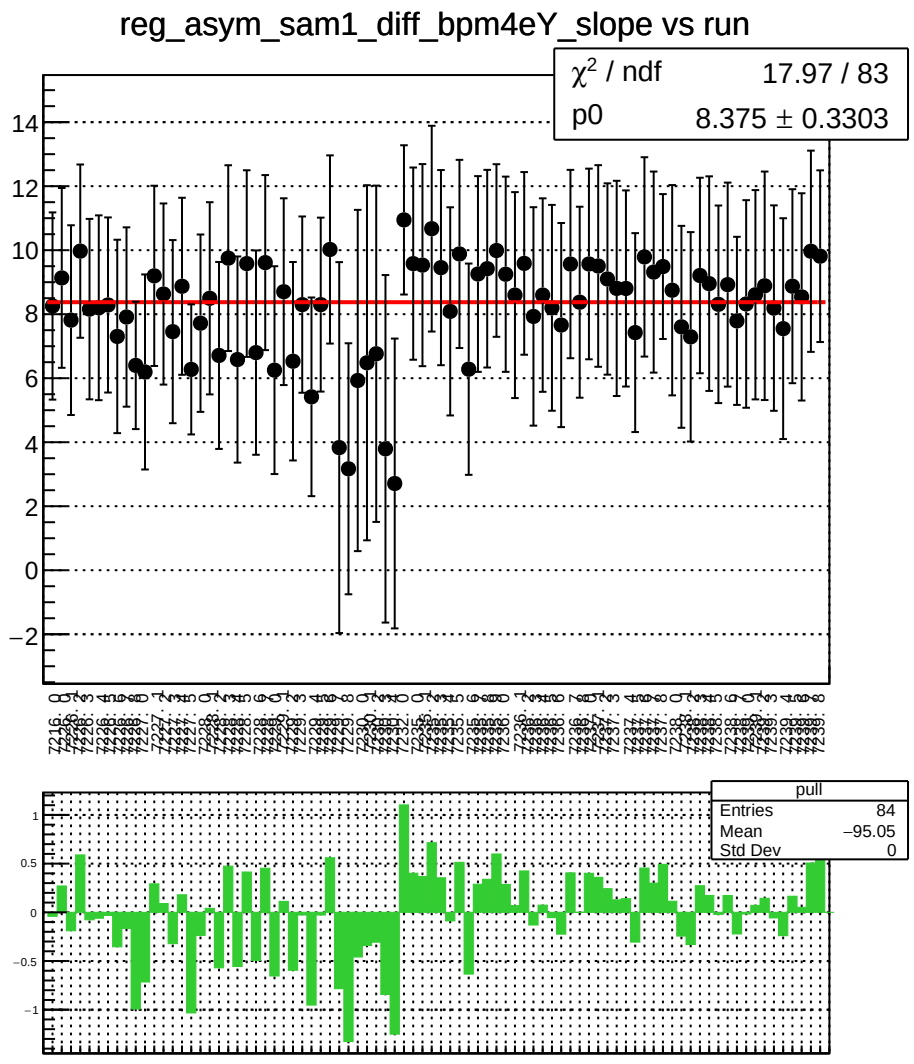

pull1D
Entries 84
Mean 0.002967
Std Dev 0.4174

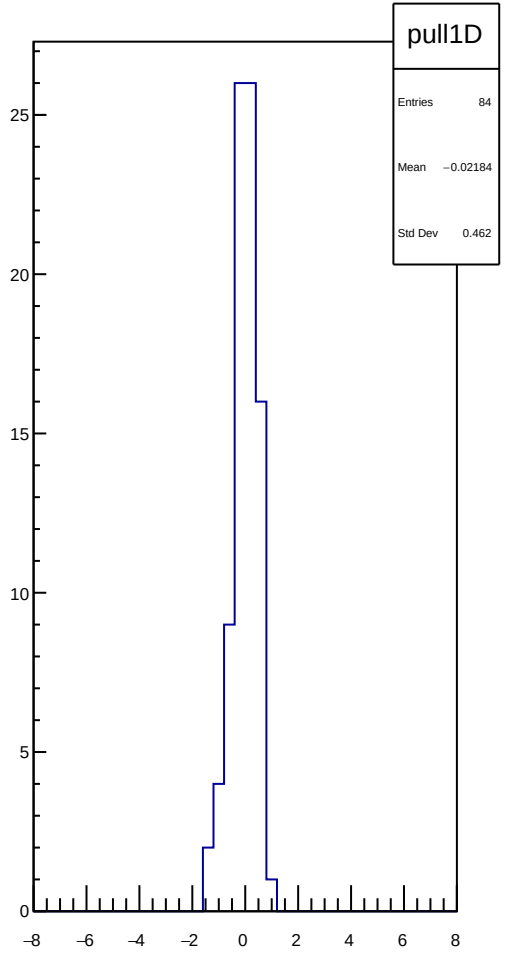

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 17.96 / 83
p0 −54.77 ± 0.3017
pull
Entries 84
Mean −61.85
Std Dev 0

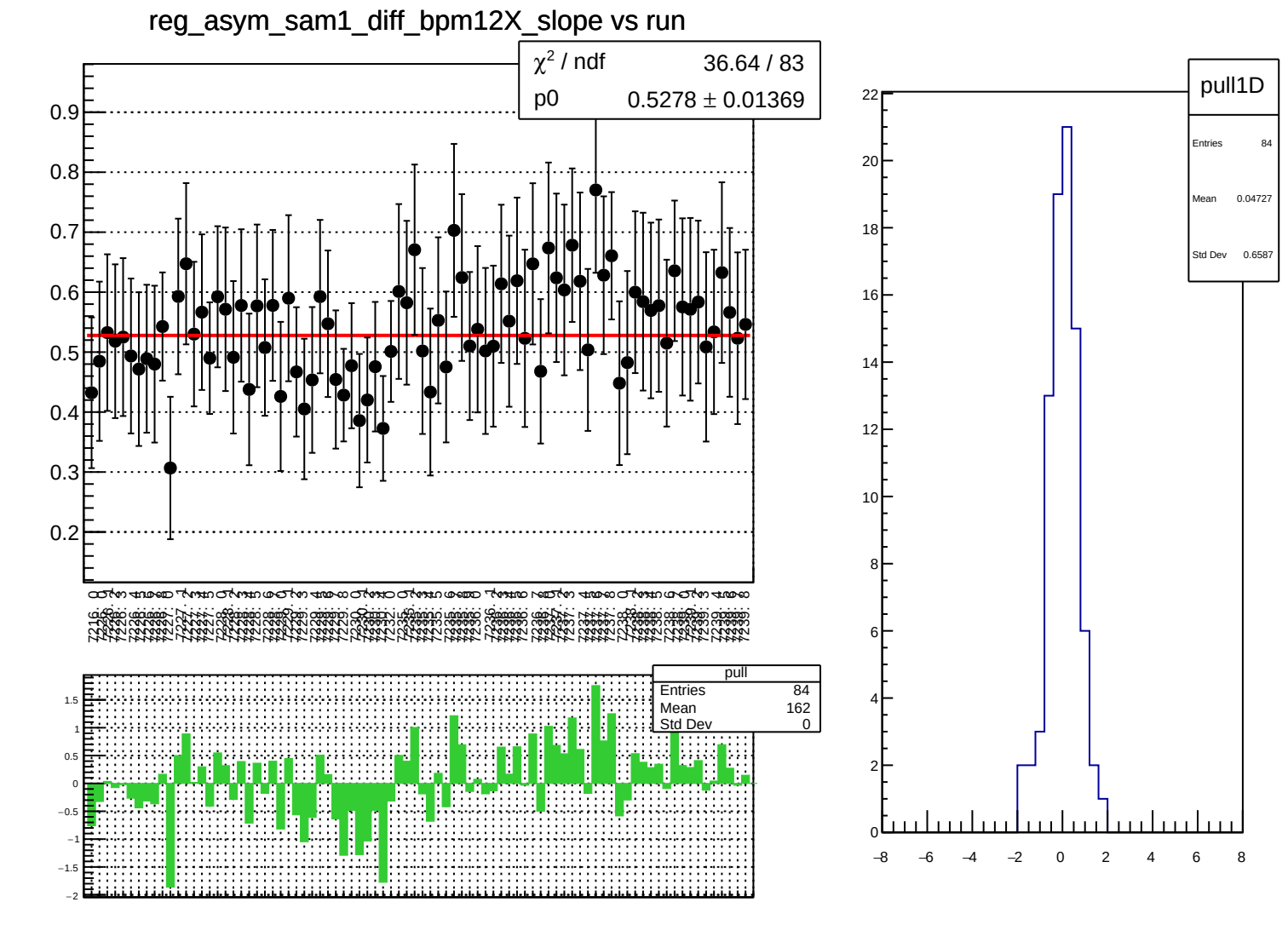

pull1D
Entries 84
Mean 0.02952
Std Dev 0.4615

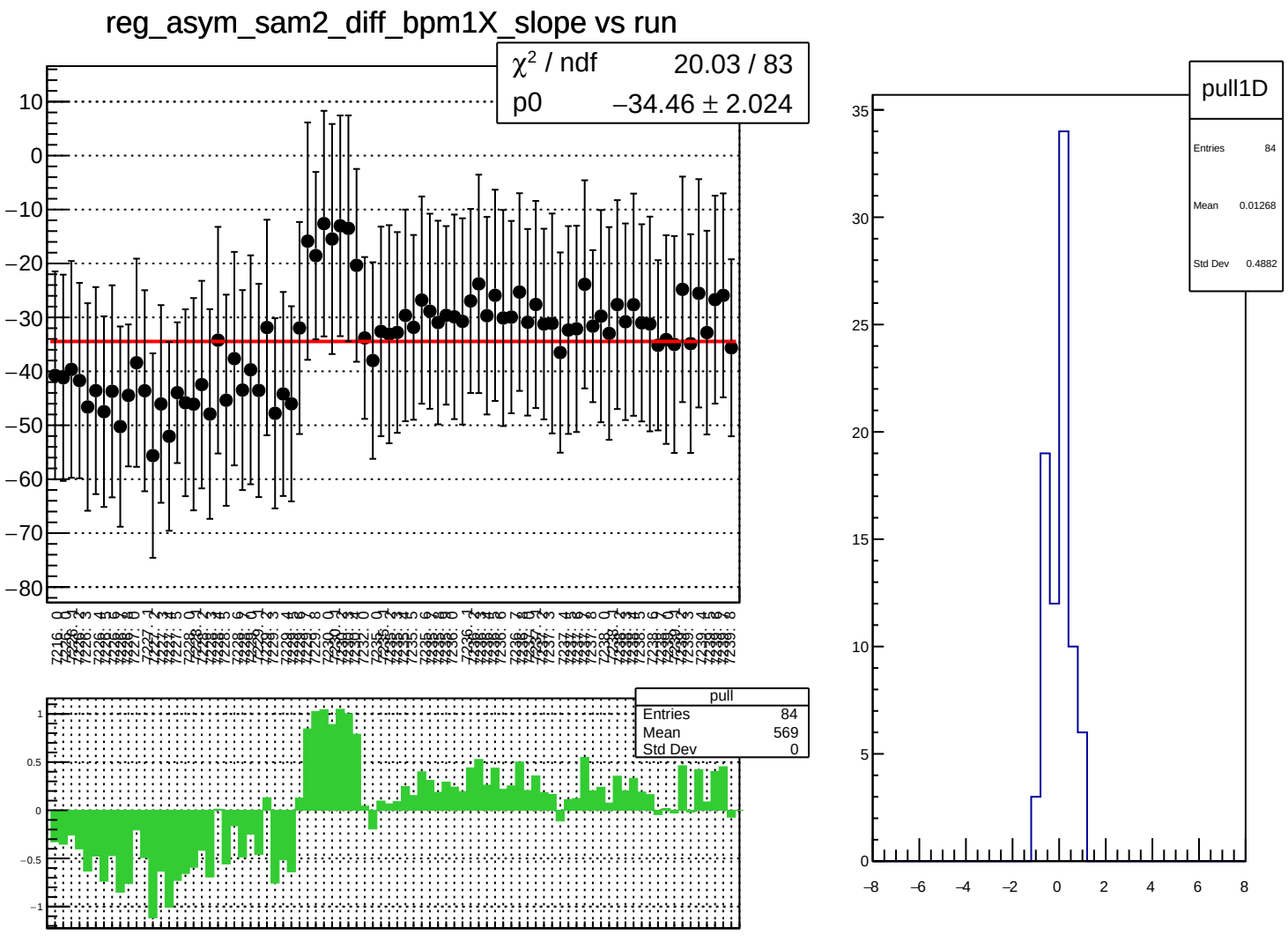

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 13.49 / 83
p0 −9.296 ± 0.4023
pull
Entries 84
Mean 617.4
Std Dev 0

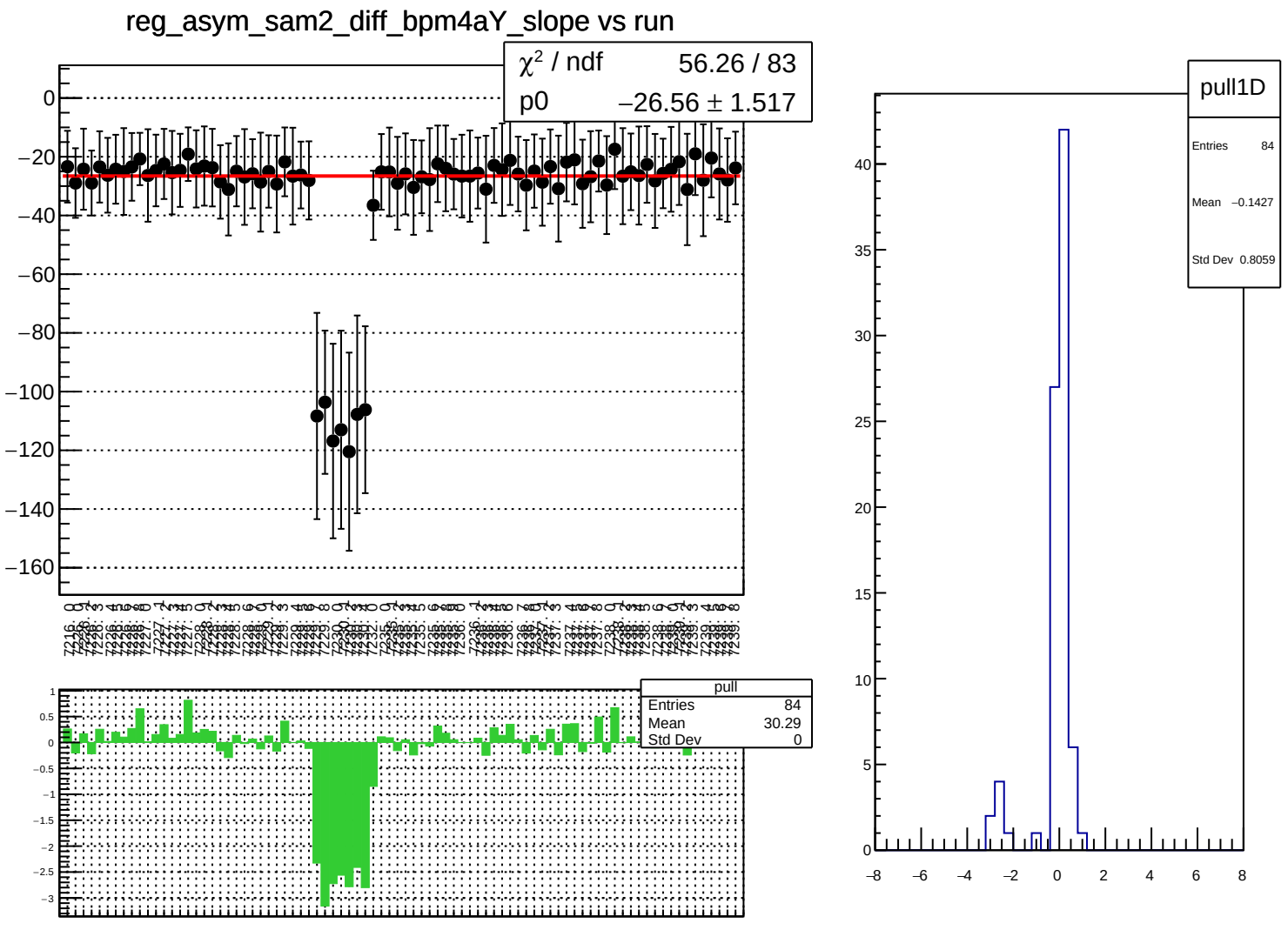

pull1D
Entries 84
Mean −0.00564
Std Dev 0.4006

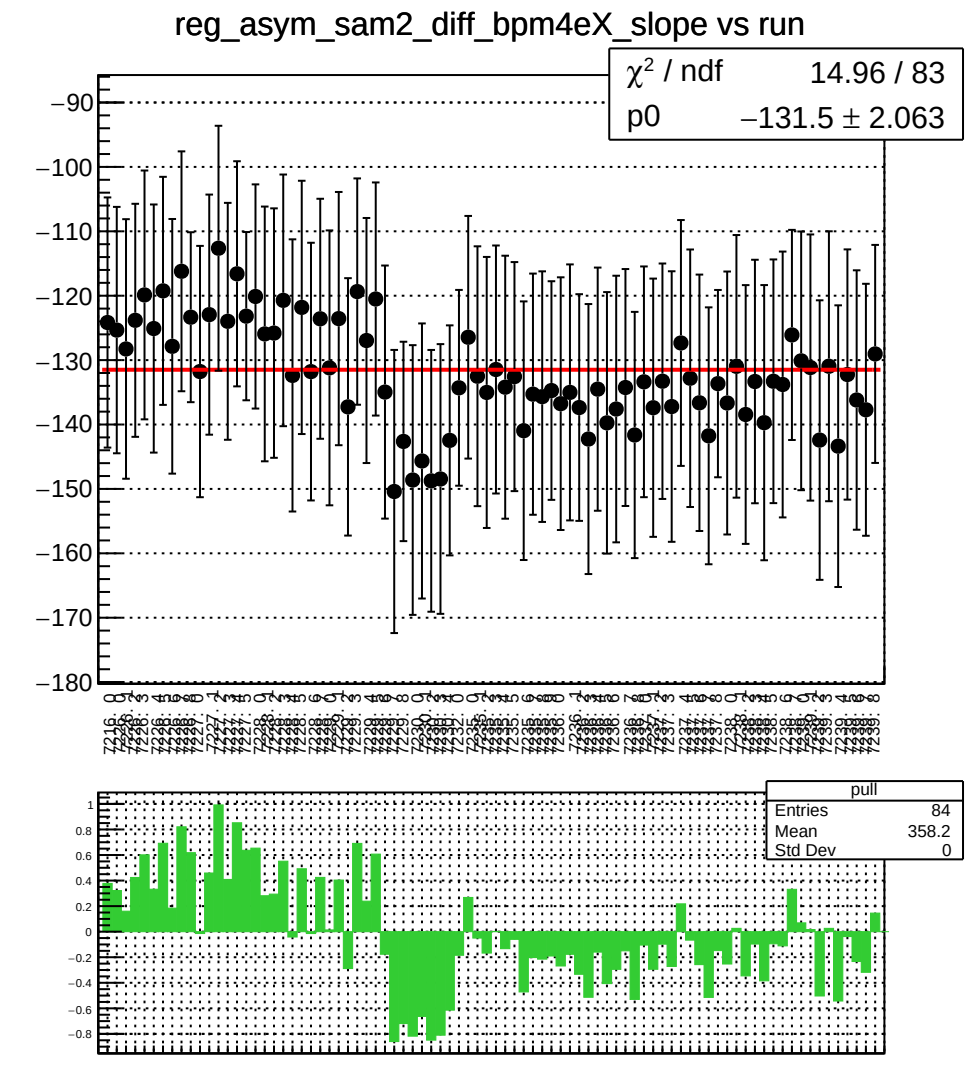

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 17.97 / 83
p0 8.375 ± 0.3303
pull
Entries 84
Mean −95.05
Std Dev 0

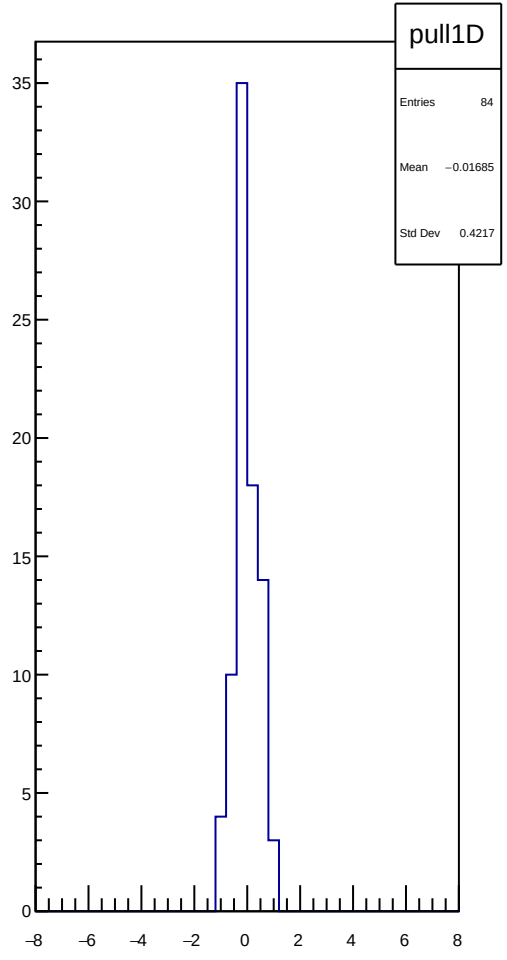

pull1D
Entries 84
Mean −0.02184
Std Dev 0.462

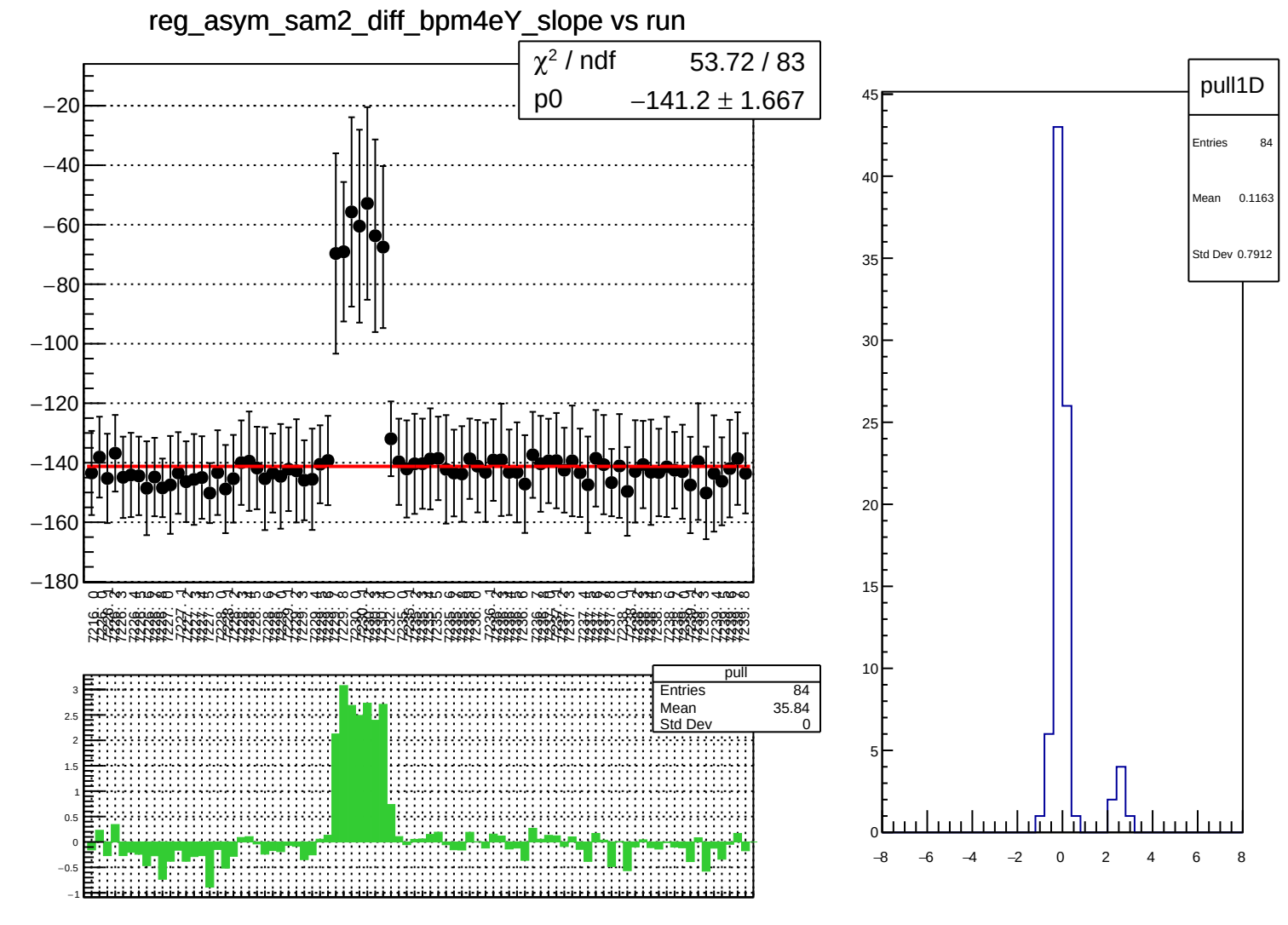

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 36.64 / 83
p0 0.5278 ± 0.01369
pull
Entries 84
Mean 162
Std Dev 0
pull1D
Entries 84
Mean 0.04727
Std Dev 0.6587

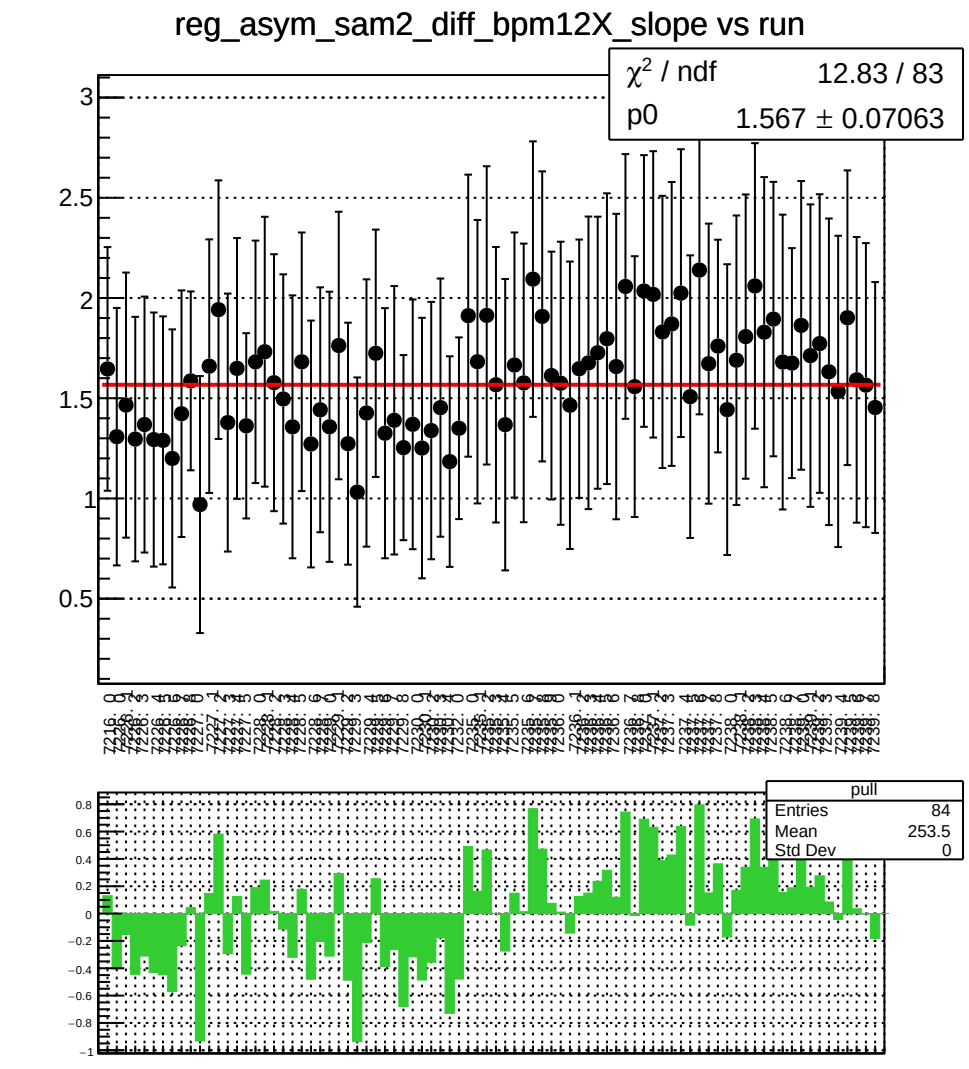

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 20.03 / 83
p0 −34.46 ± 2.024
pull
Entries 84
Mean 569
Std Dev 0
pull1D
Entries 84
Mean 0.01268
Std Dev 0.4882

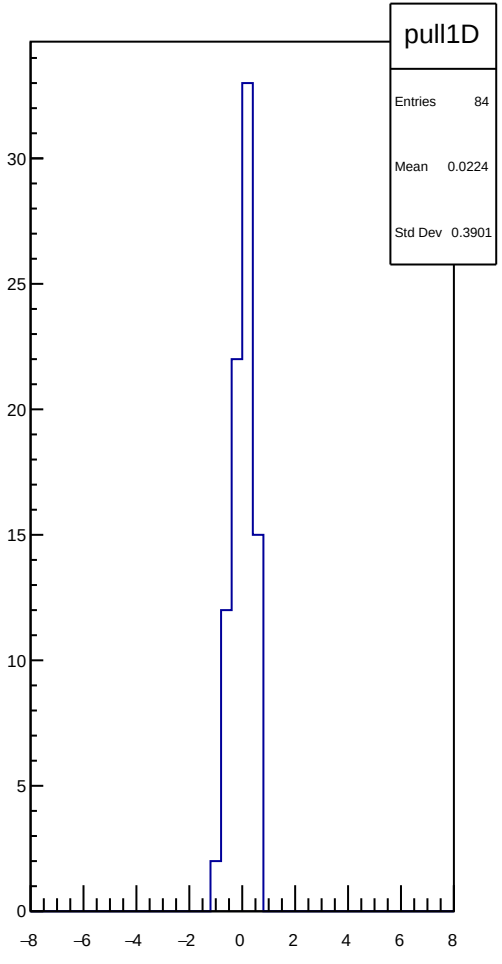

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 56.26 / 83
p0 −26.56 ± 1.517
pull
Entries 84
Mean 30.29
Std Dev 0
pull1D
Entries 84
Mean −0.1427
Std Dev 0.8059

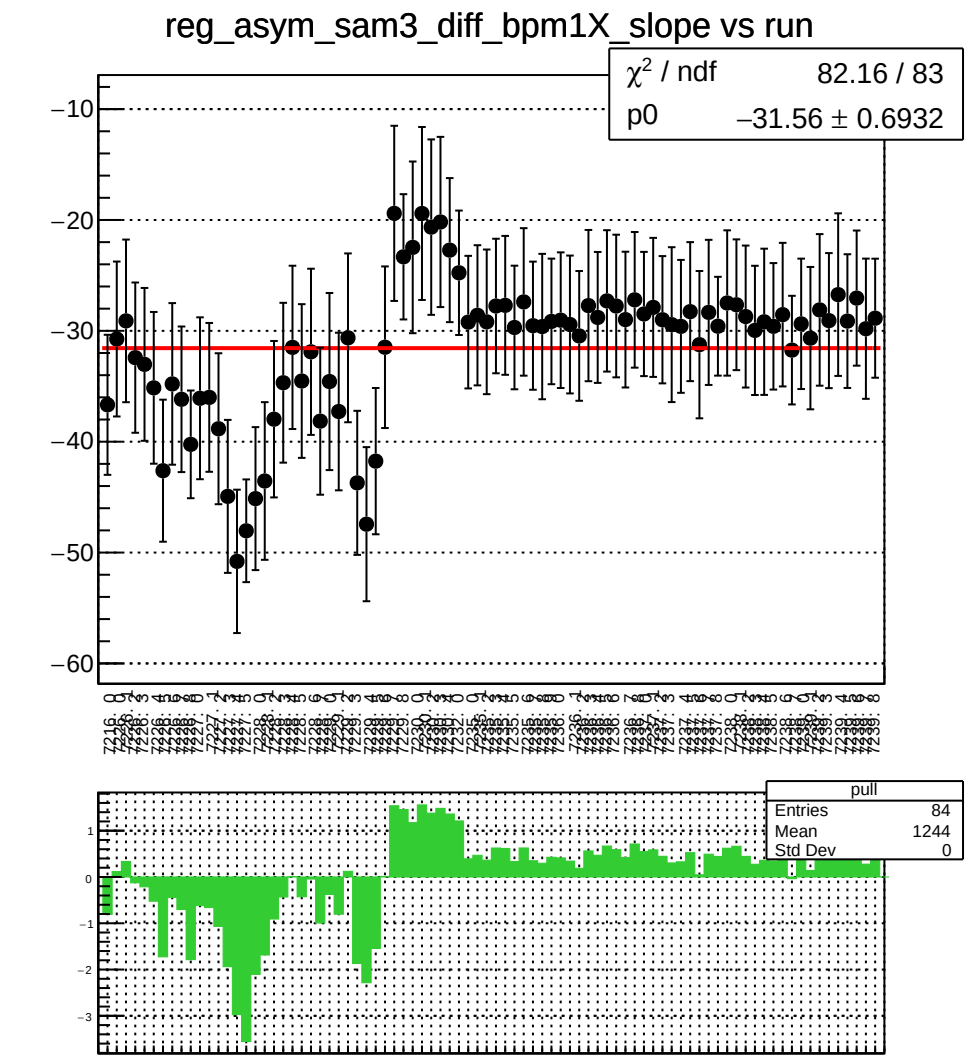

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 14.96 / 83
p0 −131.5 ± 2.063
pull
Entries 84
Mean 358.2
Std Dev 0

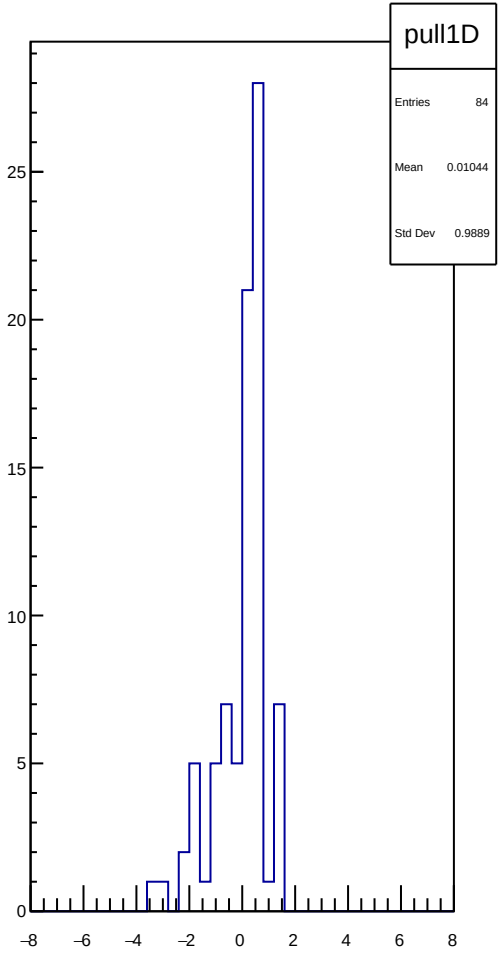

pull1D
Entries 84
Mean −0.01685
Std Dev 0.4217

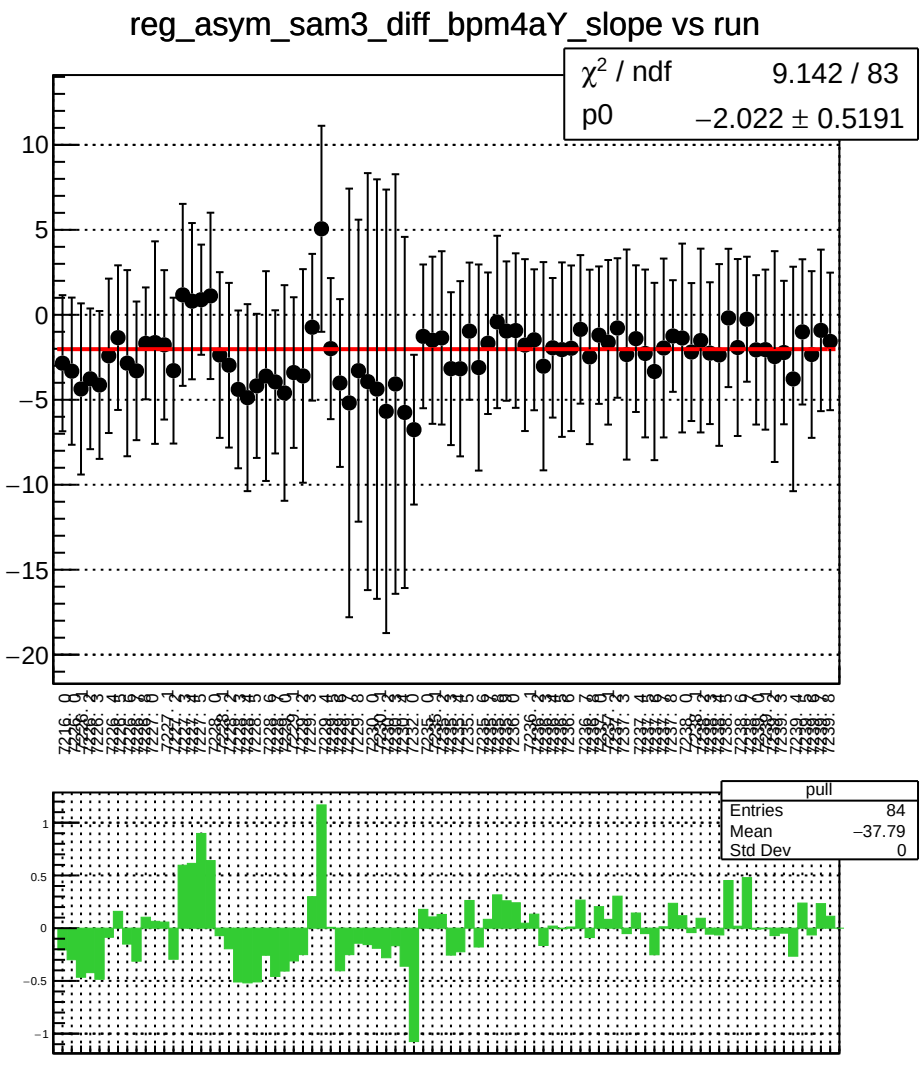

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 53.72 / 83
p0 −141.2 ± 1.667
pull
Entries 84
Mean 35.84
Std Dev 0
pull1D
Entries 84
Mean 0.1163
Std Dev 0.7912

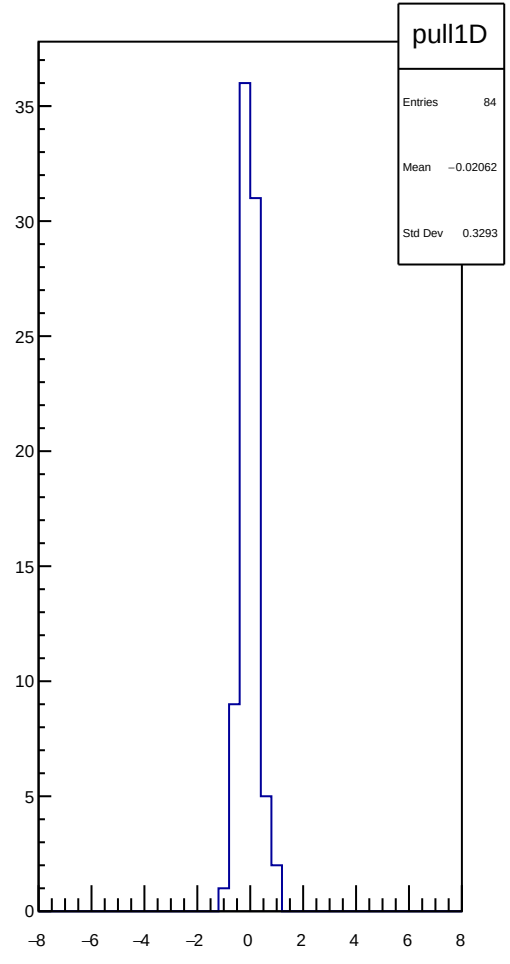

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 12.83 / 83
p0 1.567 ± 0.07063
pull
Entries 84
Mean 253.5
Std Dev 0

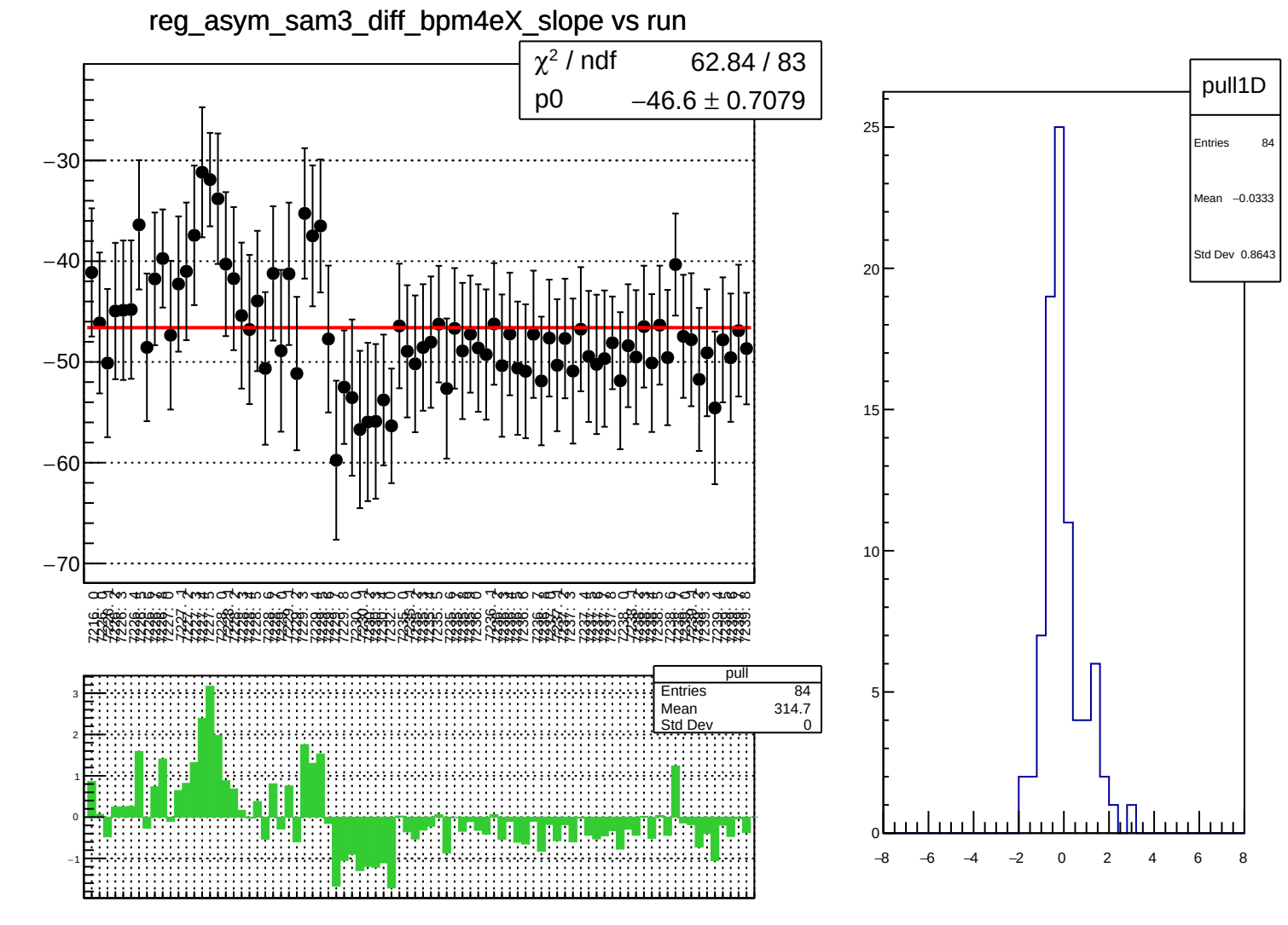

pull1D
Entries 84
Mean 0.0224
Std Dev 0.3901

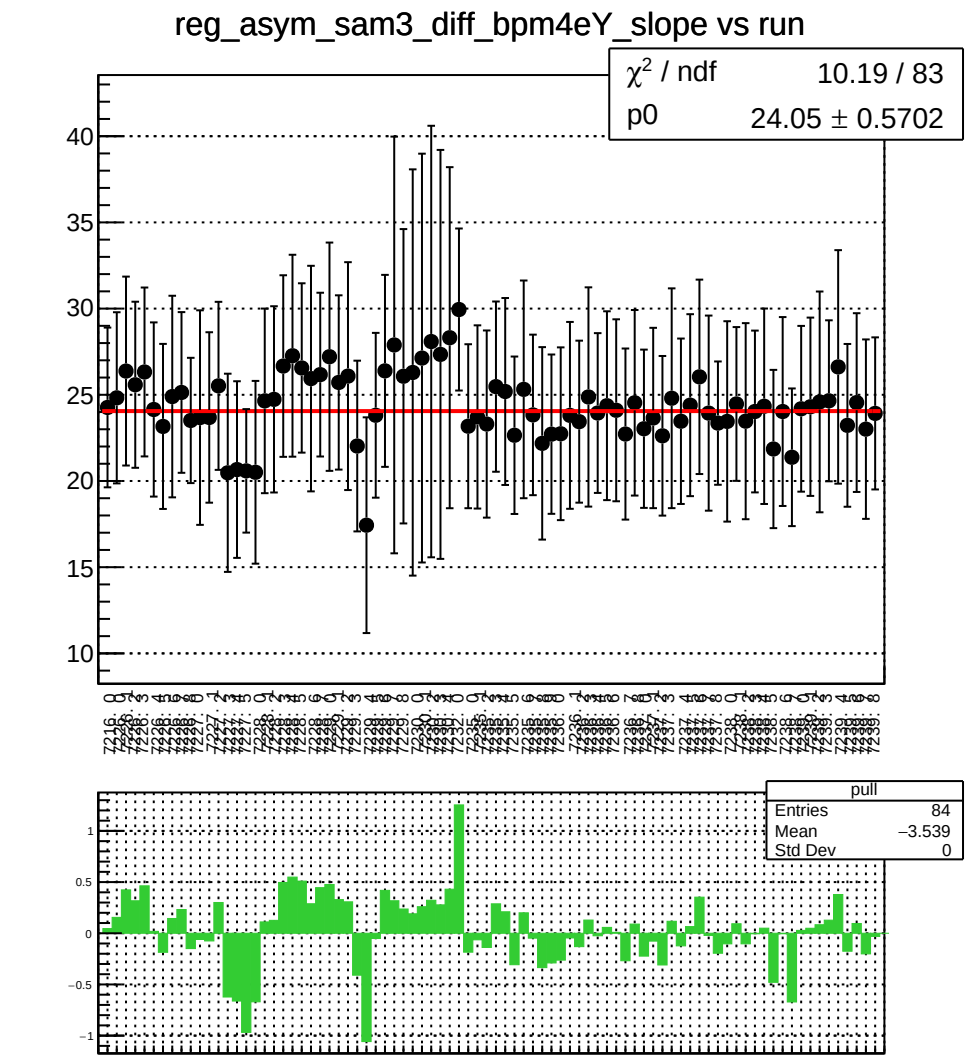

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 82.16 / 83
p0 −31.56 ± 0.6932
pull
Entries 84
Mean 1244
Std Dev 0

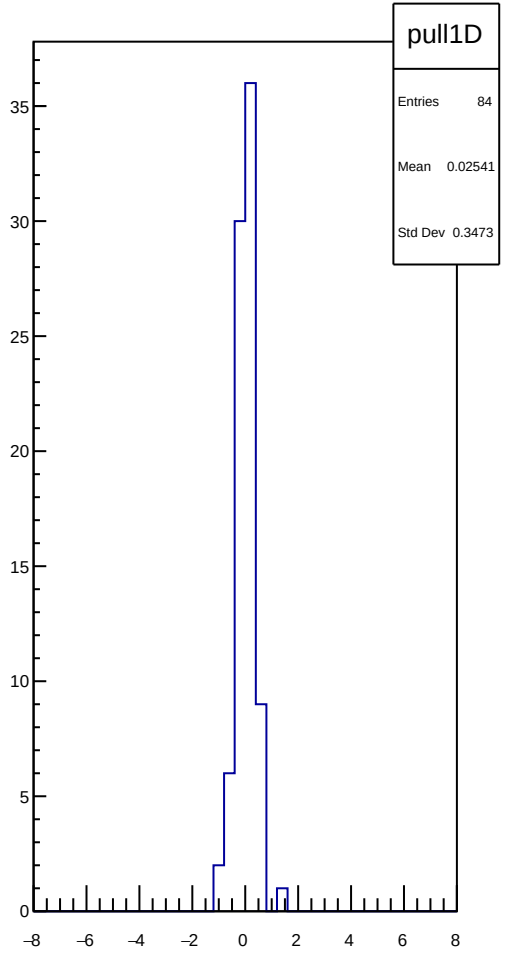

pull1D
Entries 84
Mean 0.01044
Std Dev 0.9889

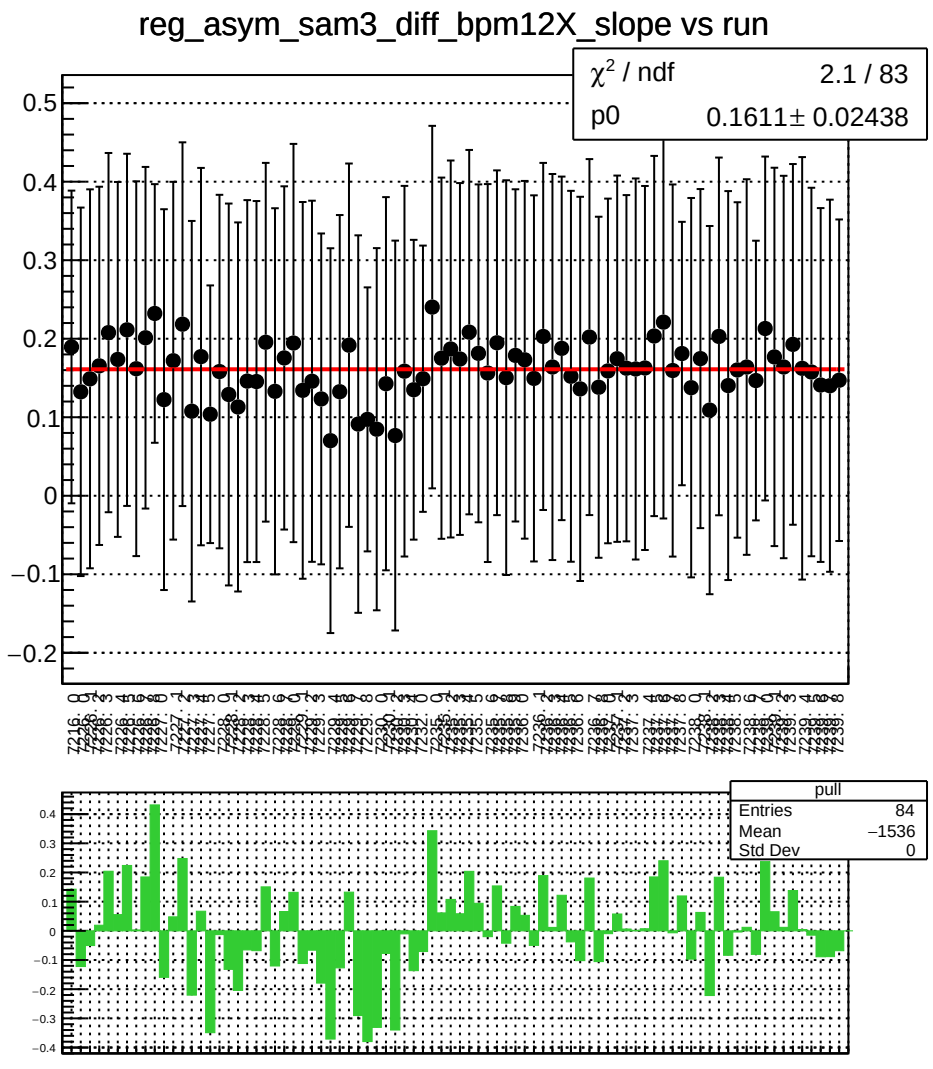

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 9.142 / 83
p0 −2.022 ± 0.5191
pull
Entries 84
Mean −37.79
Std Dev 0

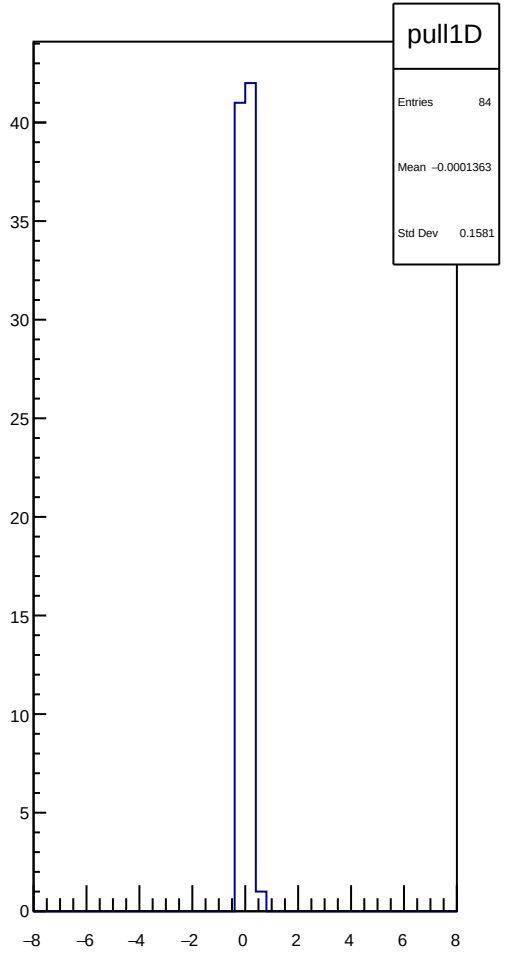

pull1D
Entries 84
Mean −0.02062
Std Dev 0.3293

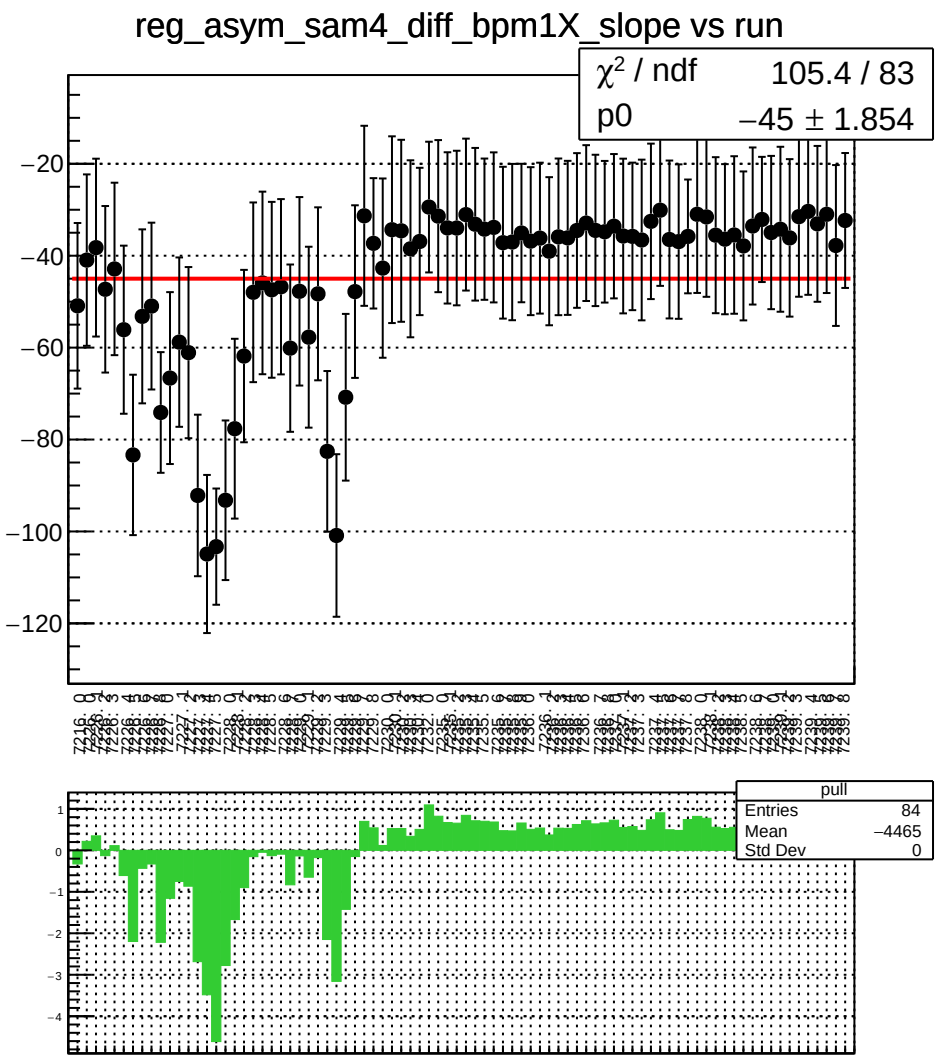

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 62.84 / 83
p0 −46.6 ± 0.7079
pull
Entries 84
Mean 314.7
Std Dev 0
pull1D
Entries 84
Mean −0.0333
Std Dev 0.8643

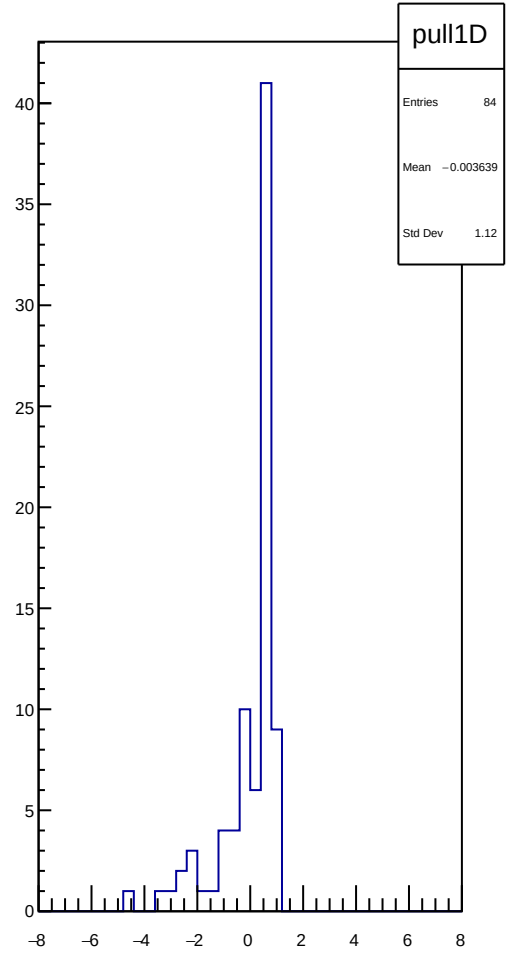

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 10.19 / 83
p0 24.05 ± 0.5702
pull
Entries 84
Mean −3.539
Std Dev 0

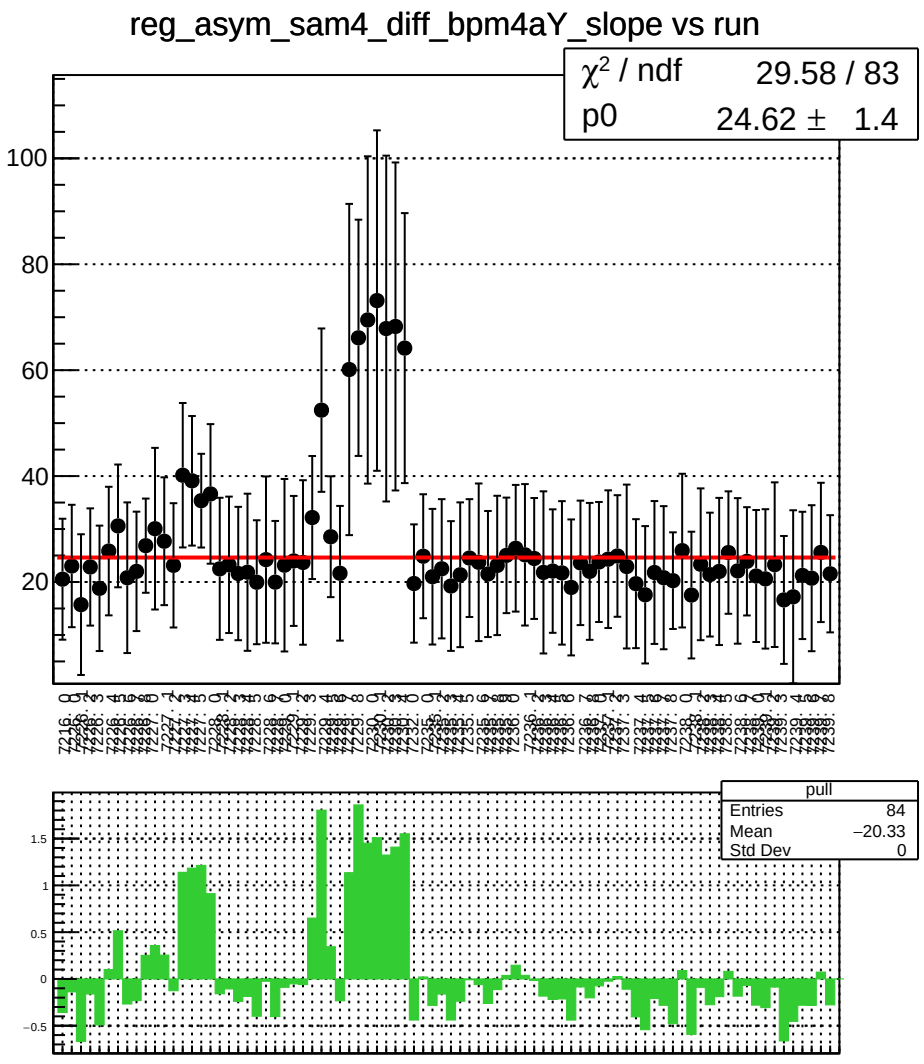

pull1D
Entries 84
Mean 0.02541
Std Dev 0.3473

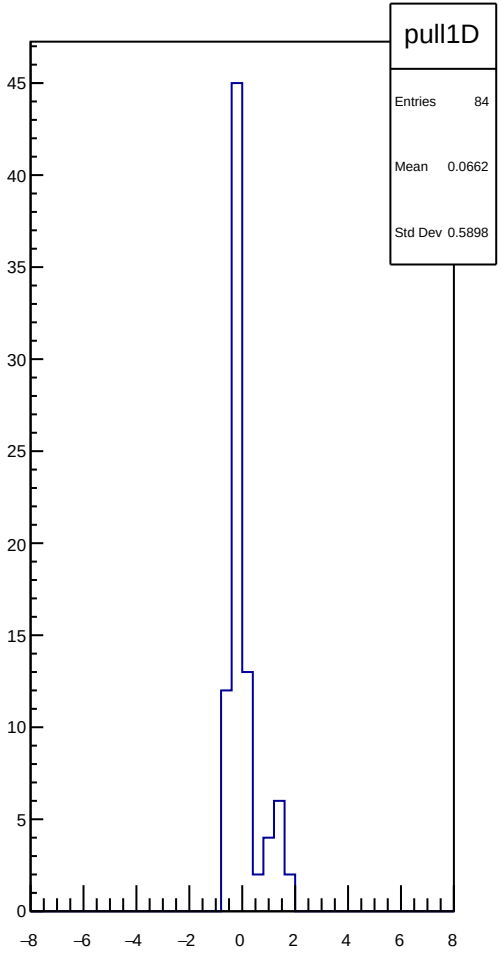

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 2.1 / 83
p0 0.1611± 0.02438
pull
Entries 84
Mean −1536
Std Dev 0

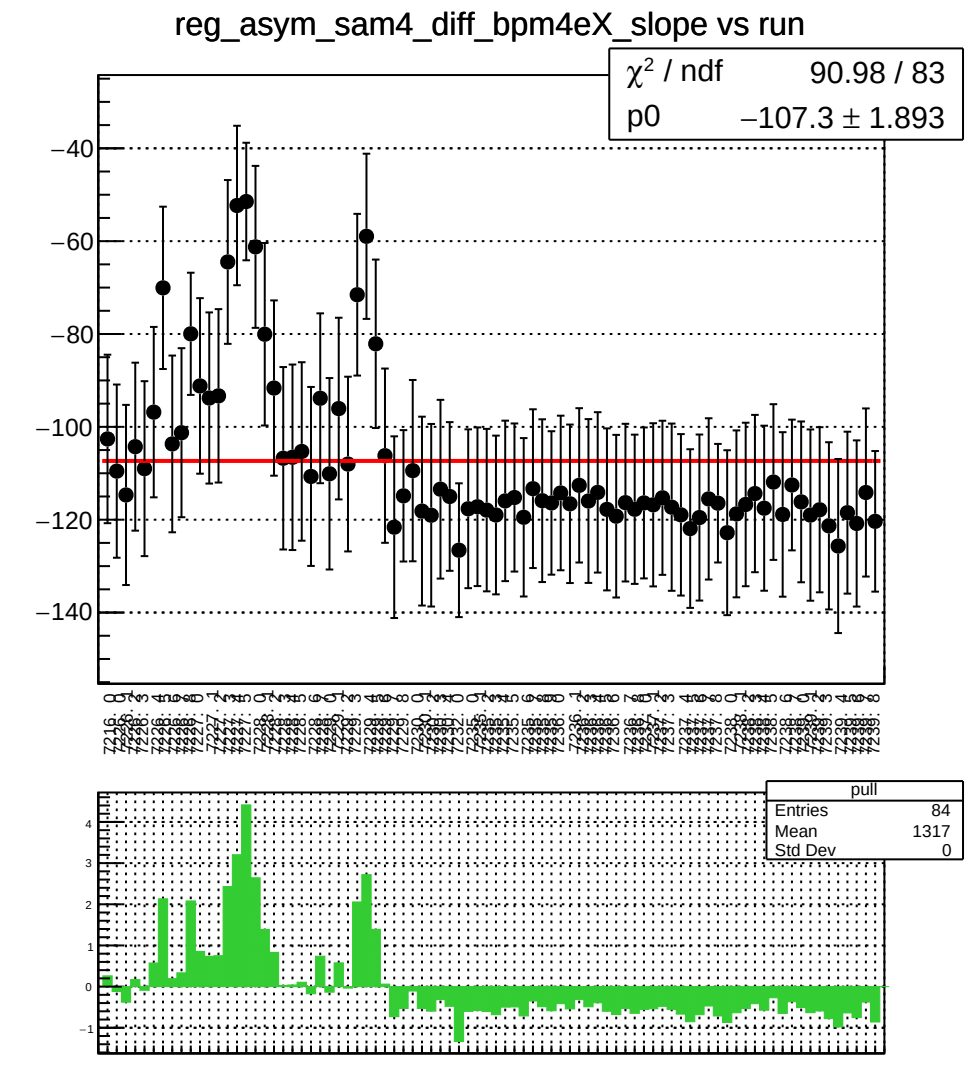

pull1D
Entries 84
Mean −0.0001363
Std Dev 0.1581

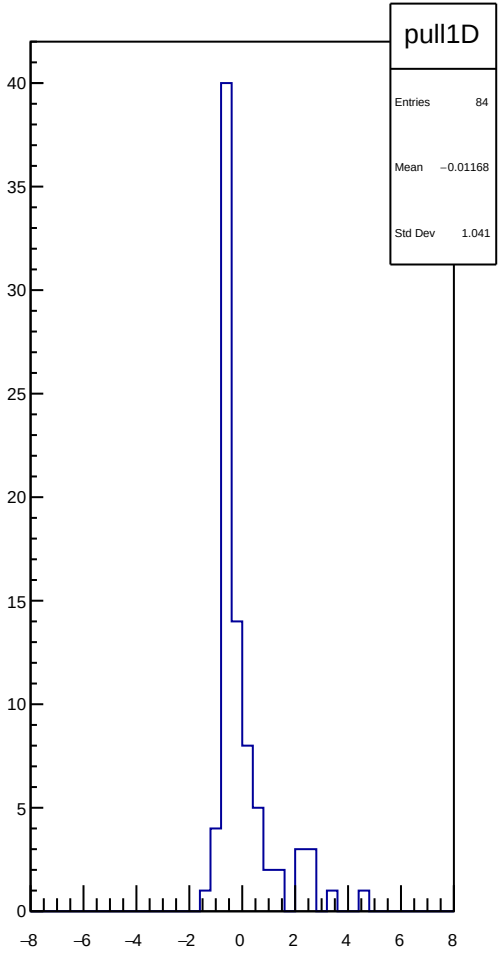

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 105.4 / 83
p0 −45 ± 1.854
pull
Entries 84
Mean −4465
Std Dev 0

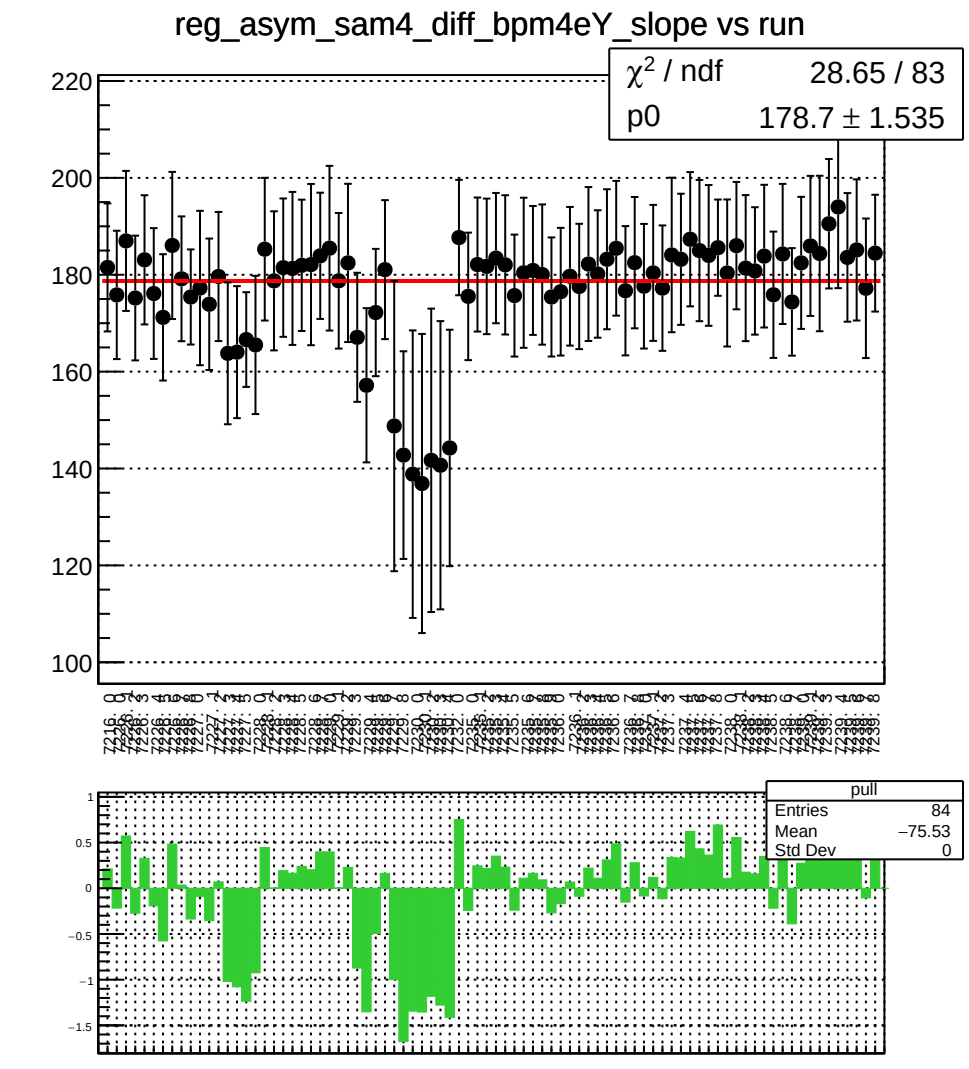

pull1D
Entries 84
Mean −0.003639
Std Dev 1.12

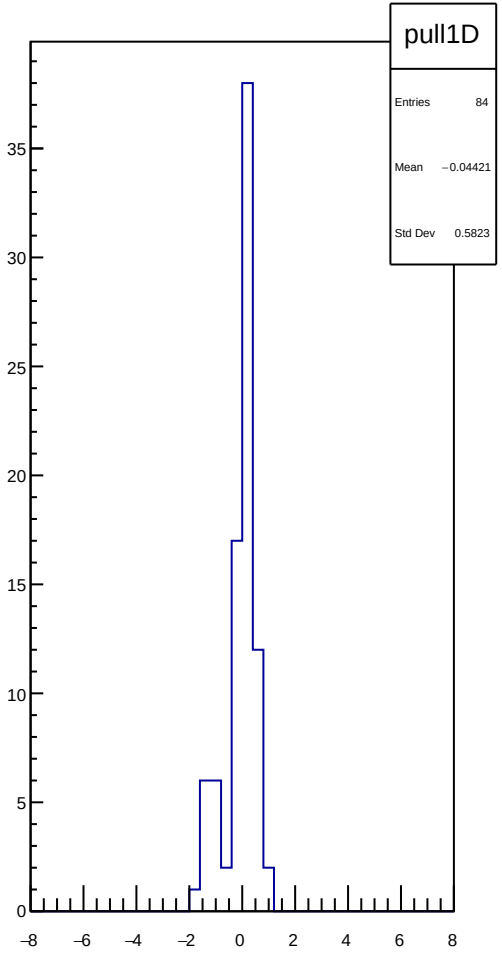

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 29.58 / 83
p0 24.62 ± 1.4
pull
Entries 84
Mean −20.33
Std Dev 0

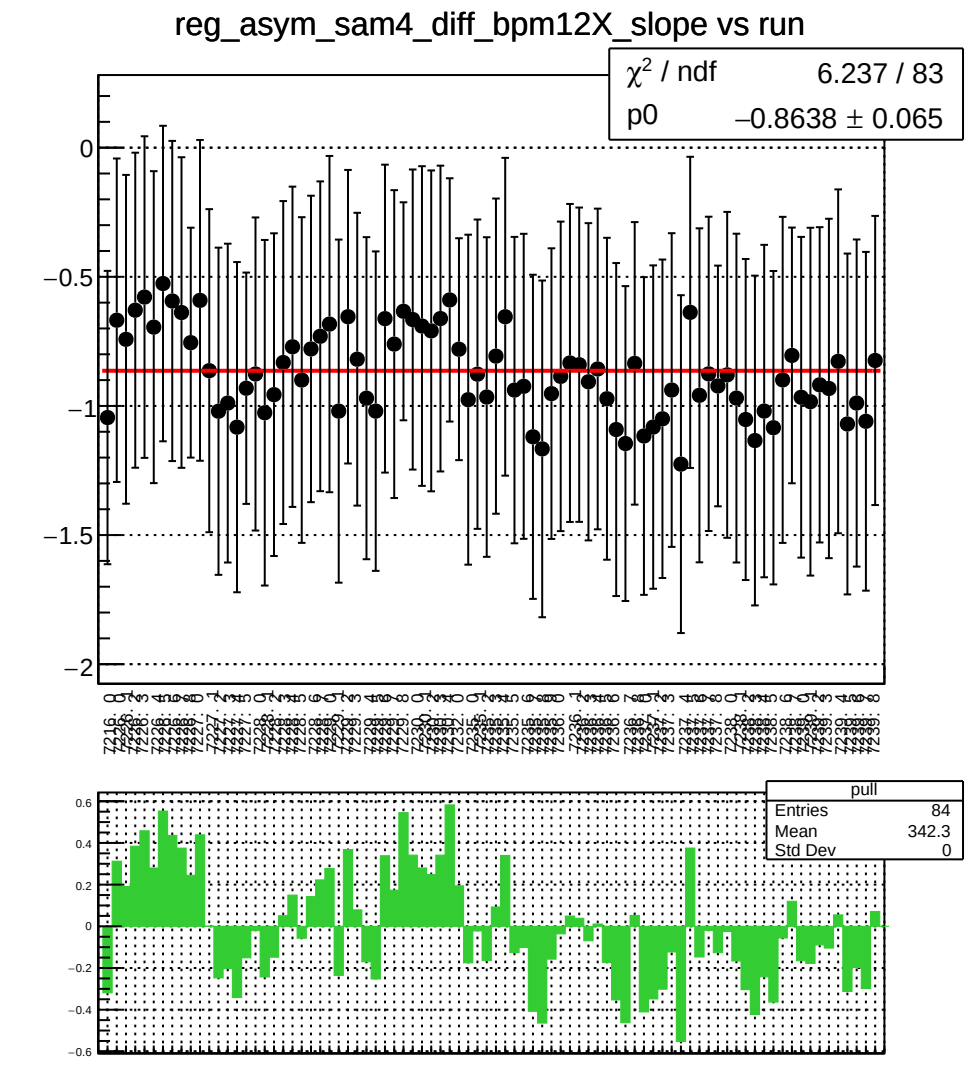

pull1D
Entries 84
Mean 0.0662
Std Dev 0.5898

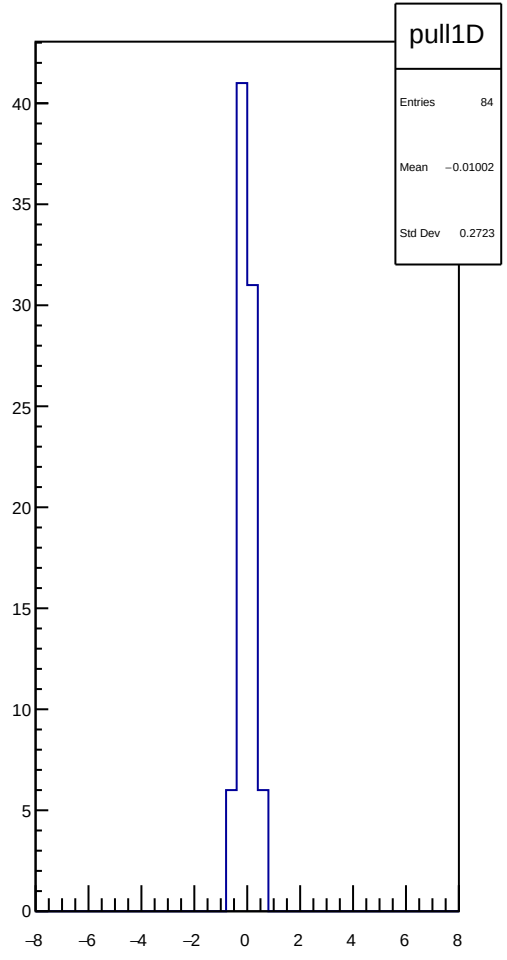

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 90.98 / 83
p0 −107.3 ± 1.893
pull
Entries 84
Mean 1317
Std Dev 0

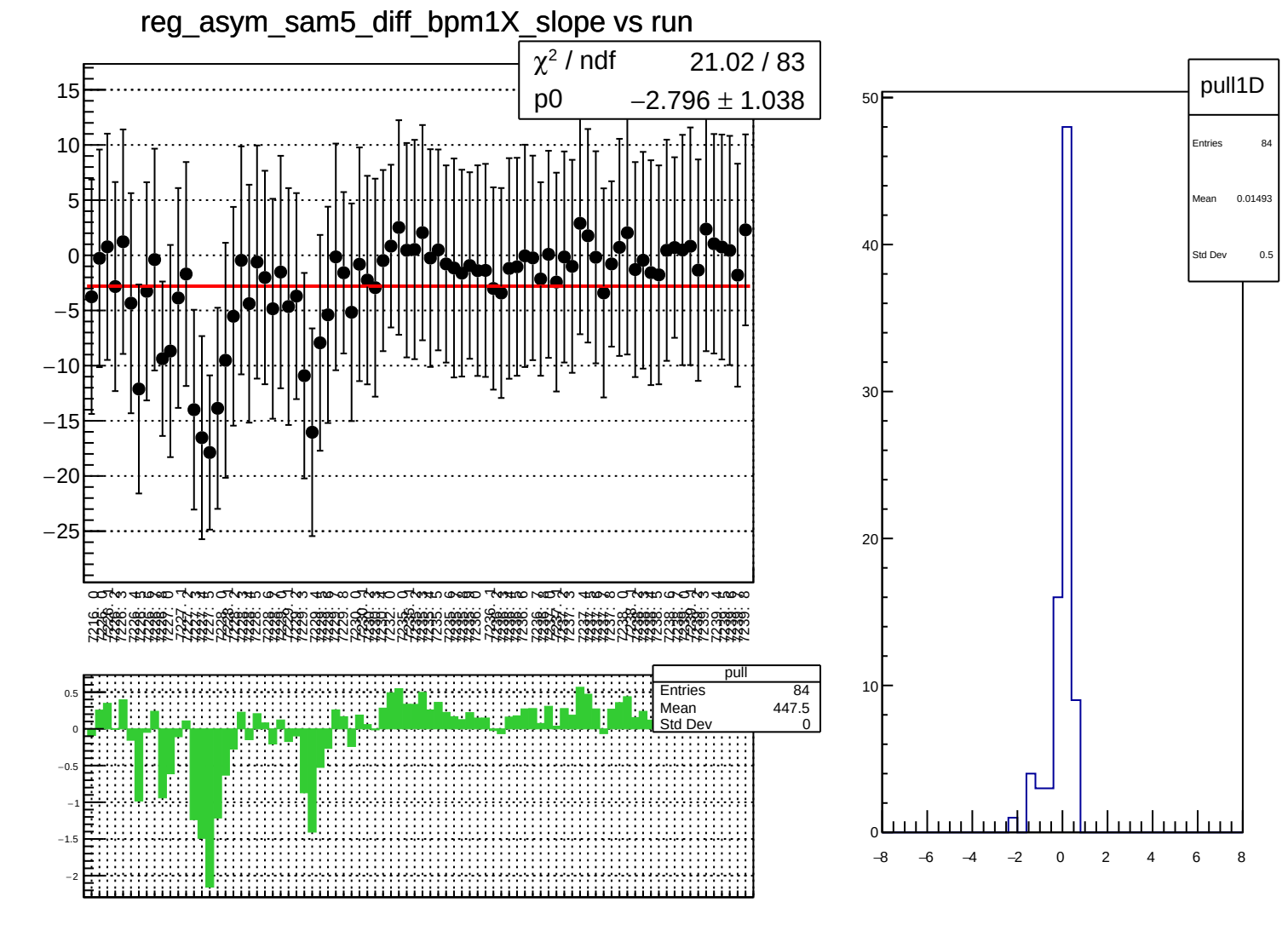

pull1D
Entries 84
Mean −0.01168
Std Dev 1.041

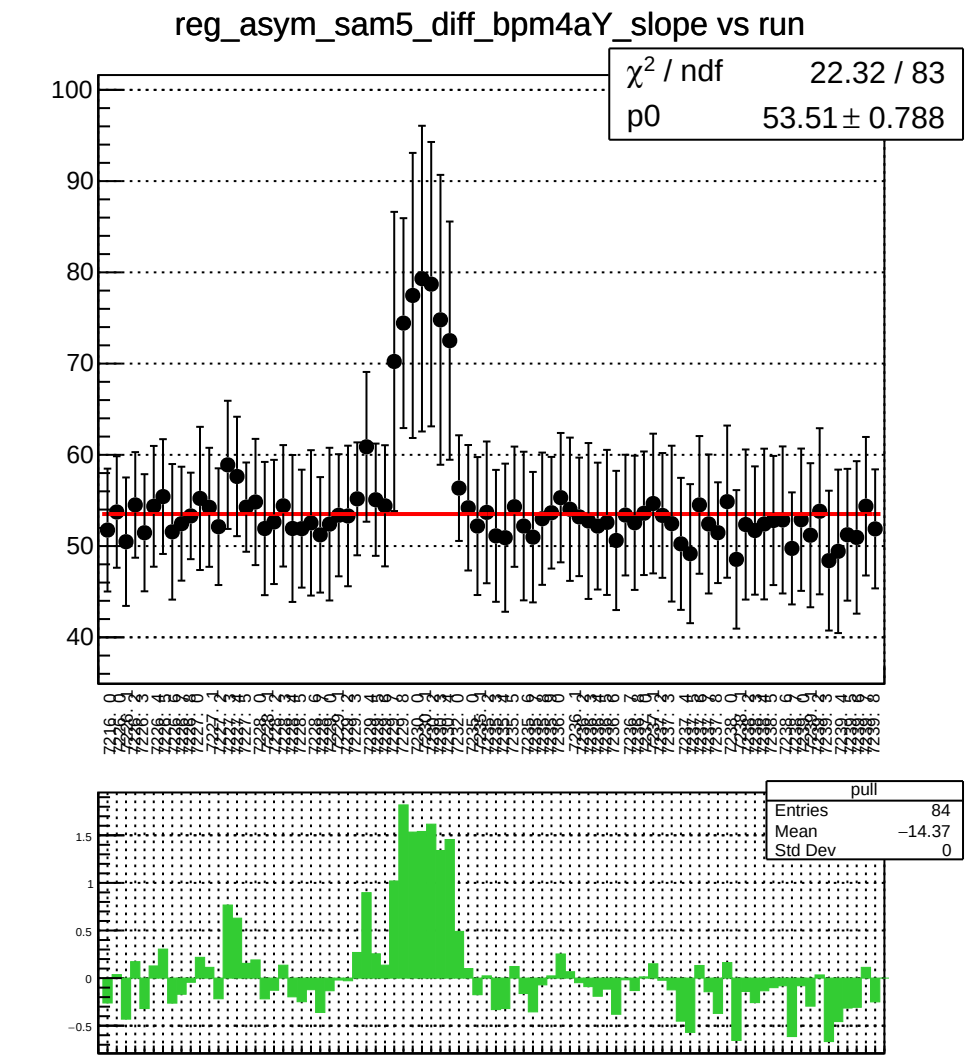

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 28.65 / 83
p0 178.7 ± 1.535
pull
Entries 84
Mean −75.53
Std Dev 0

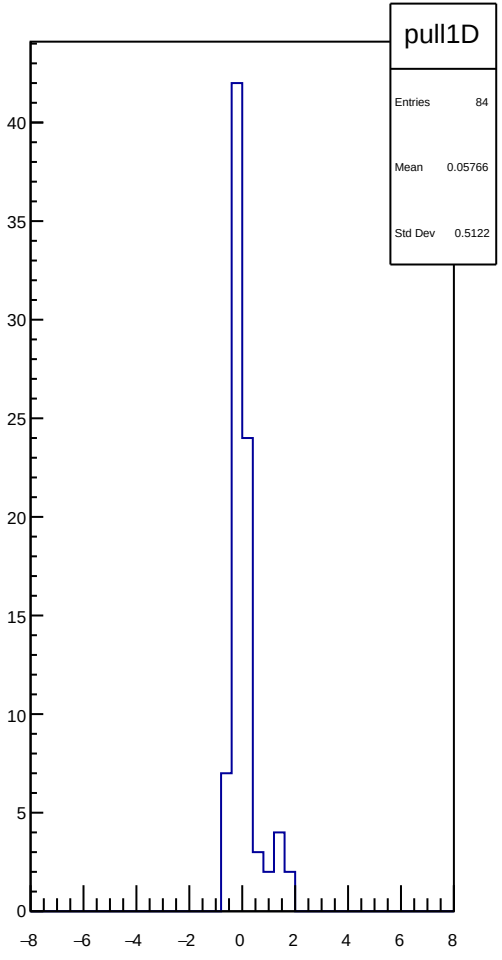

pull1D
Entries 84
Mean −0.04421
Std Dev 0.5823

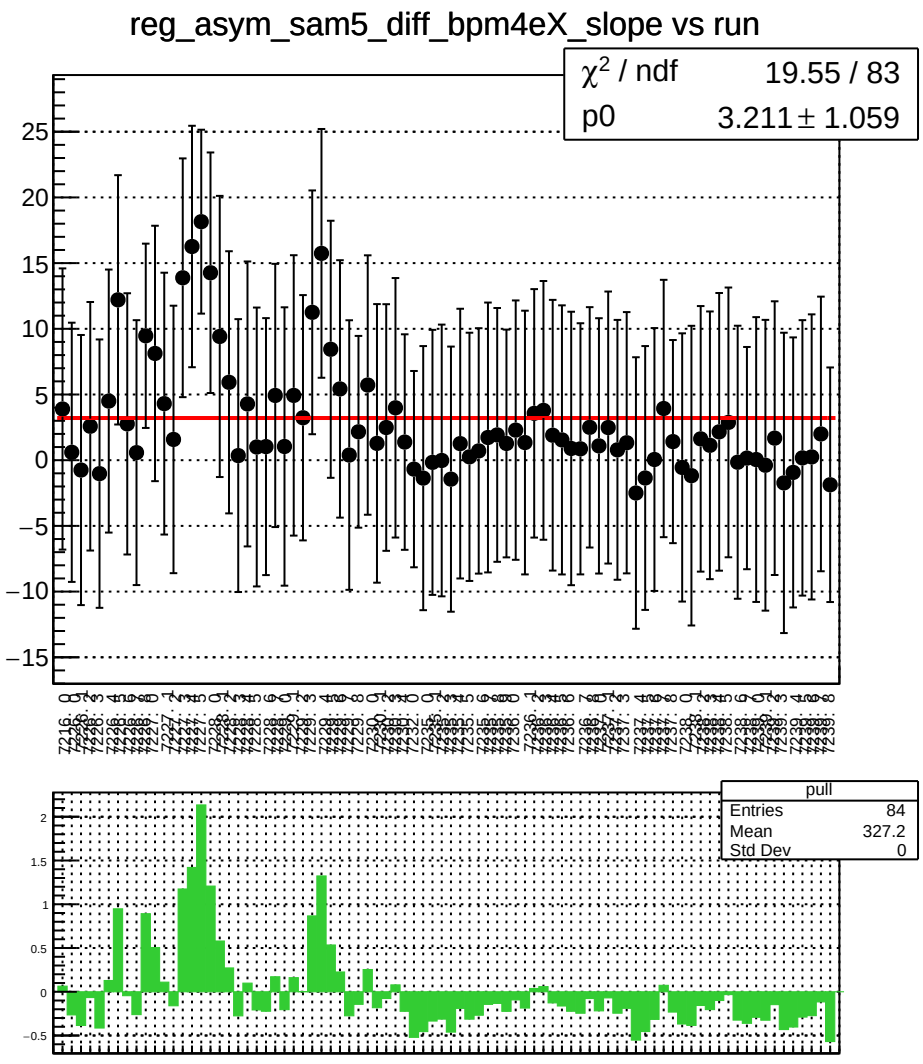

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 6.237 / 83
p0 −0.8638 ± 0.065
pull
Entries 84
Mean 342.3
Std Dev 0

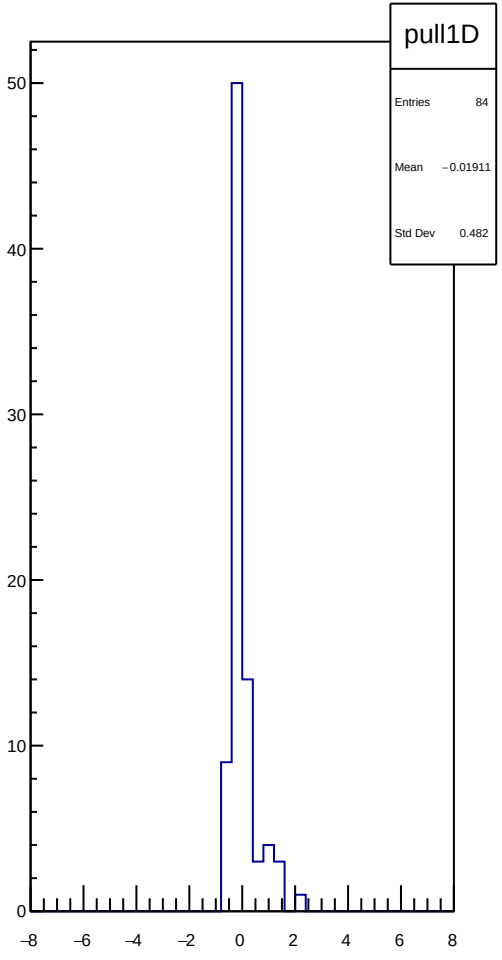

pull1D
Entries 84
Mean −0.01002
Std Dev 0.2723

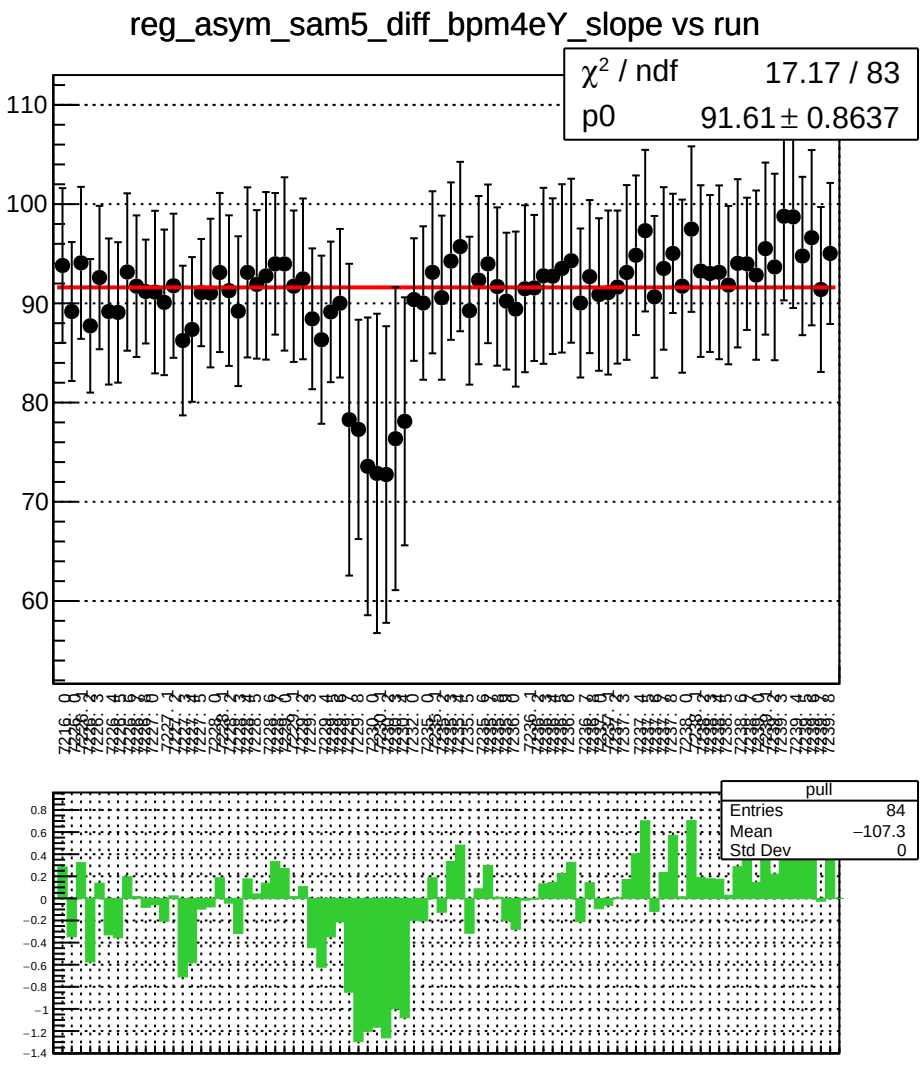

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 21.02 / 83
p0 −2.796 ± 1.038
pull
Entries 84
Mean 447.5
Std Dev 0
pull1D
Entries 84
Mean 0.01493
Std Dev 0.5

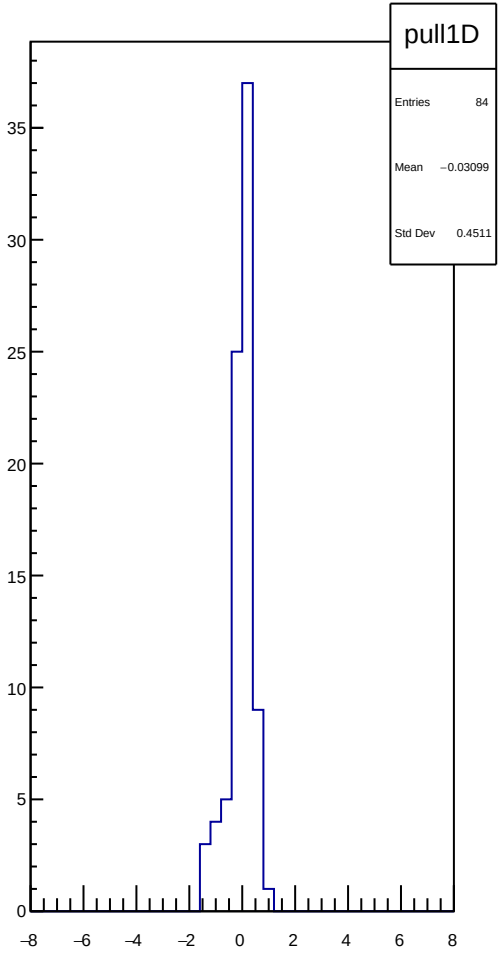

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 22.32 / 83
p0 53.51 ± 0.788
pull
Entries 84
Mean −14.37
Std Dev 0

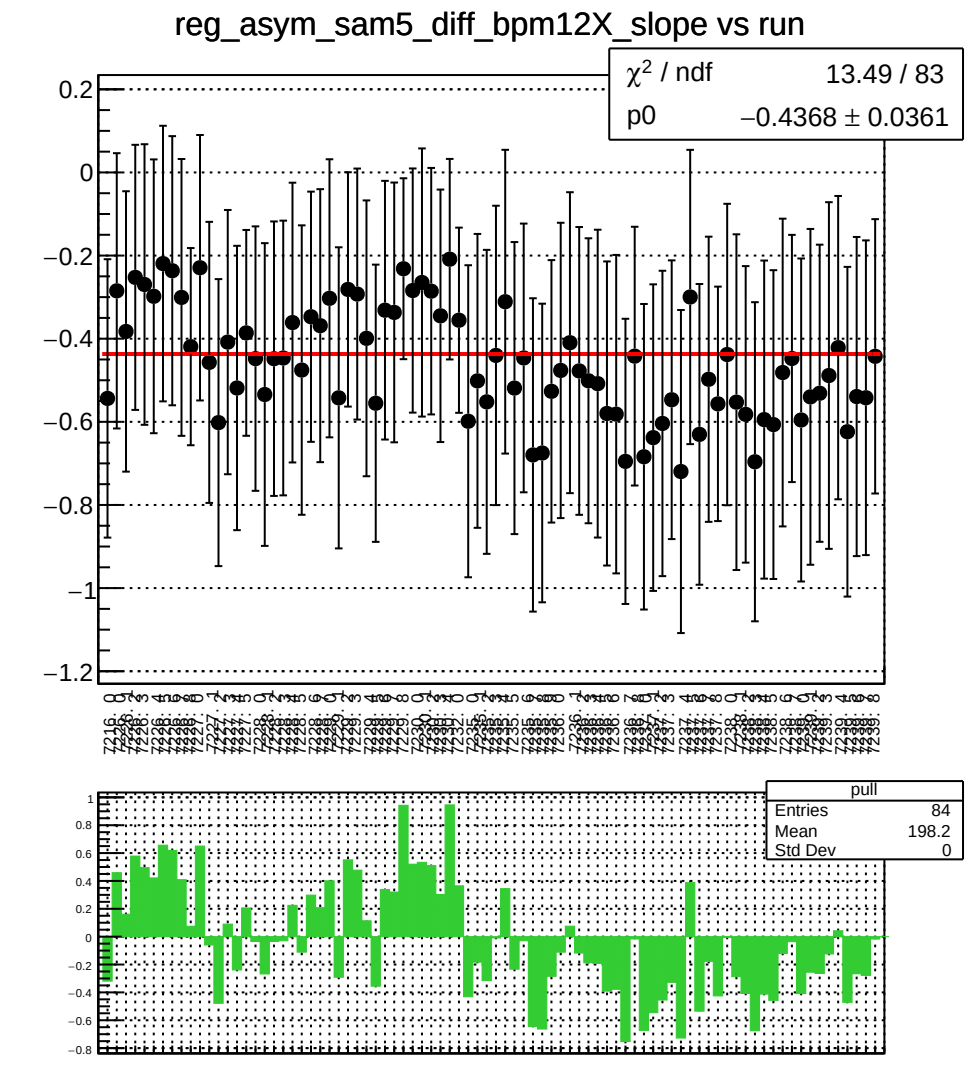

pull1D
Entries 84
Mean 0.05766
Std Dev 0.5122

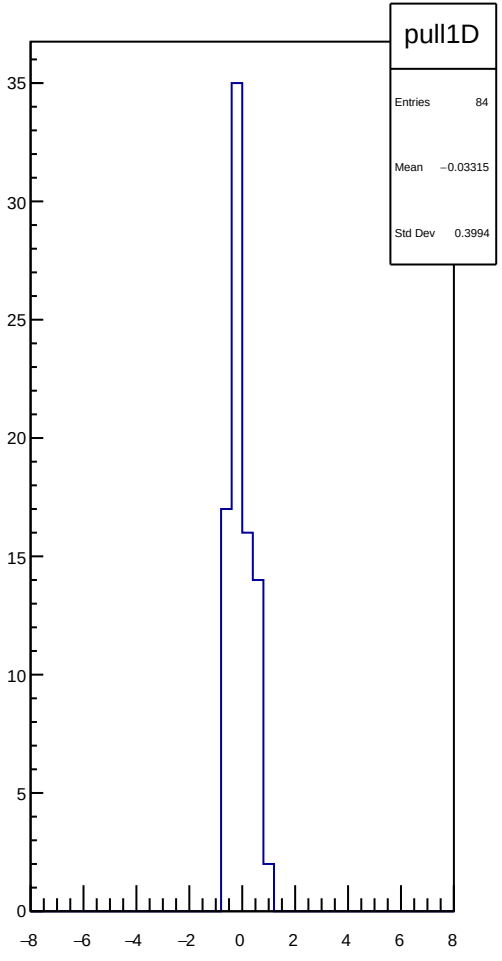

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 19.55 / 83
p0 3.211 ± 1.059
pull
Entries 84
Mean 327.2
Std Dev 0

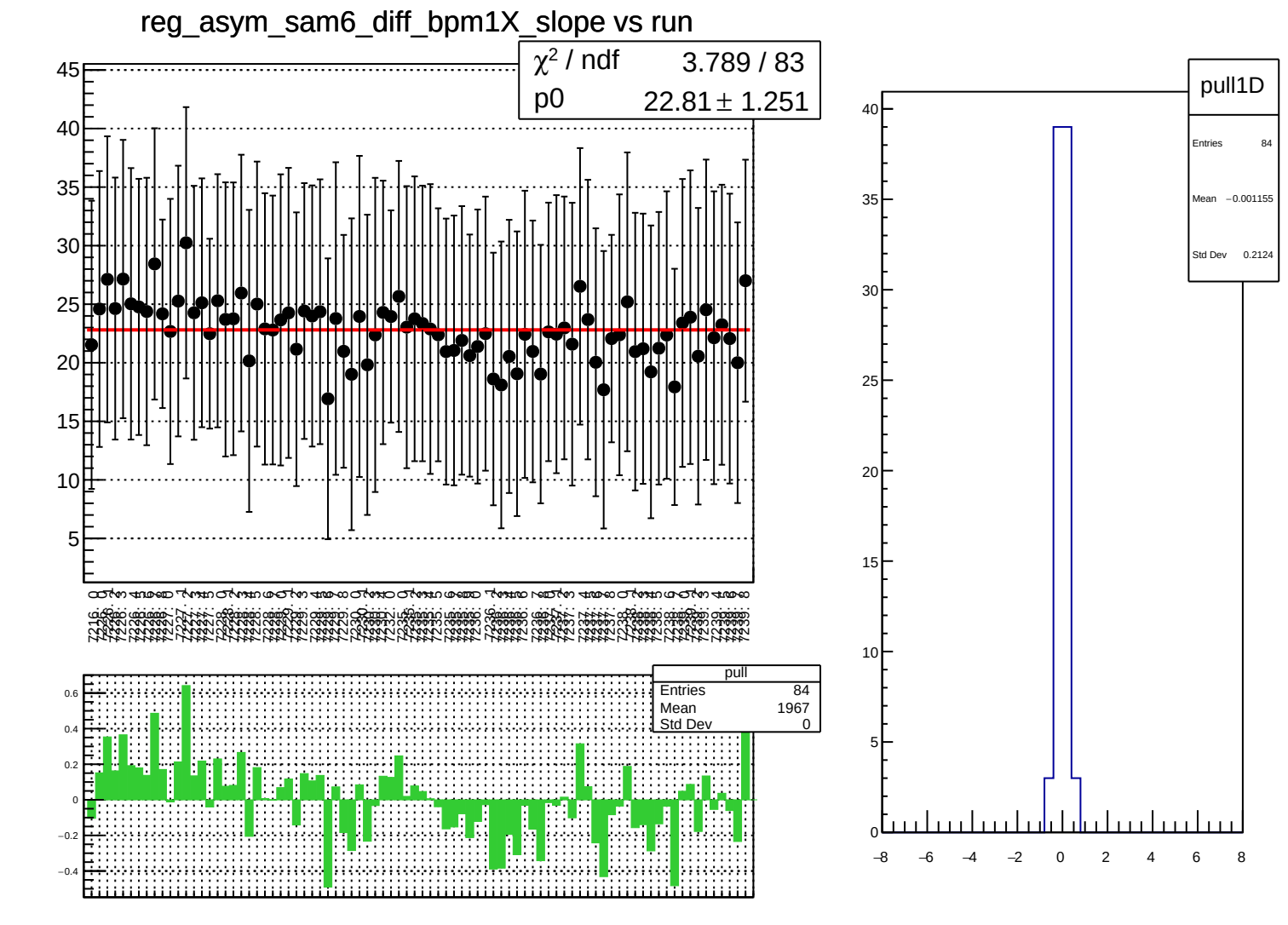

pull1D
Entries 84
Mean −0.01911
Std Dev 0.482

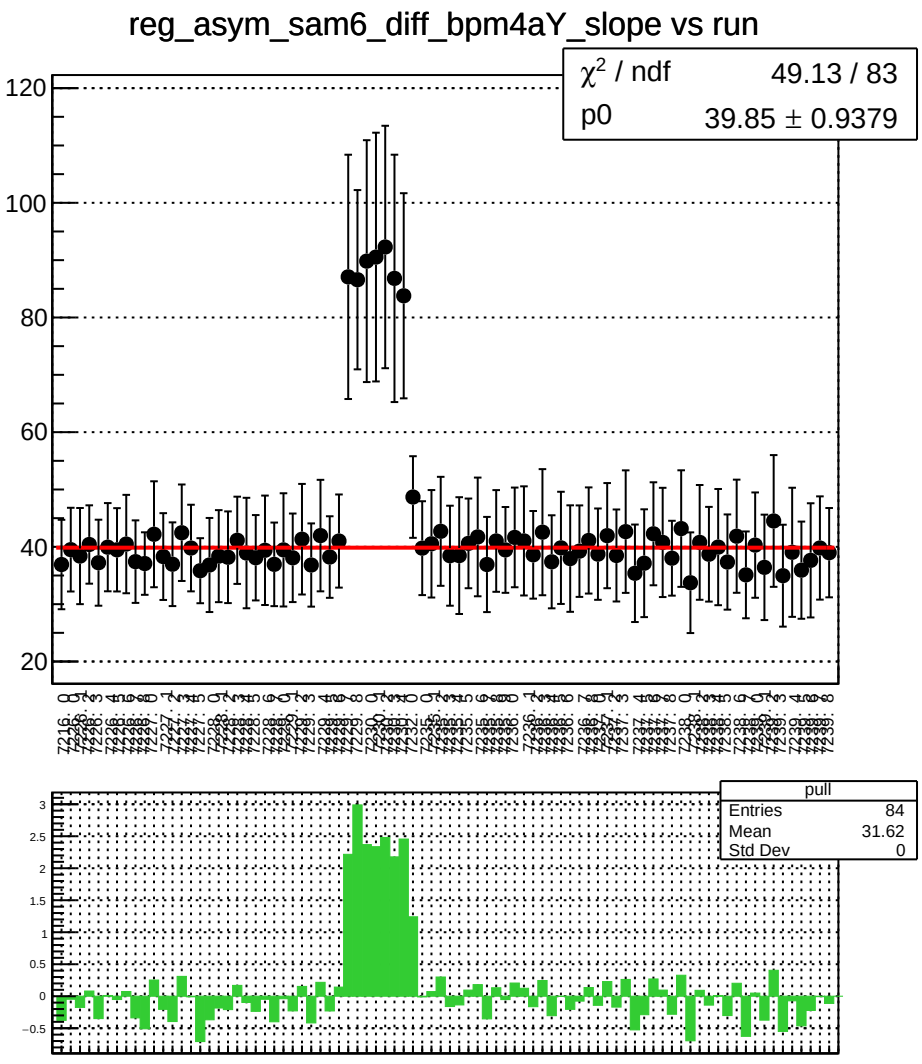

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 17.17 / 83
p0 91.61 ± 0.8637
pull
Entries 84
Mean −107.3
Std Dev 0

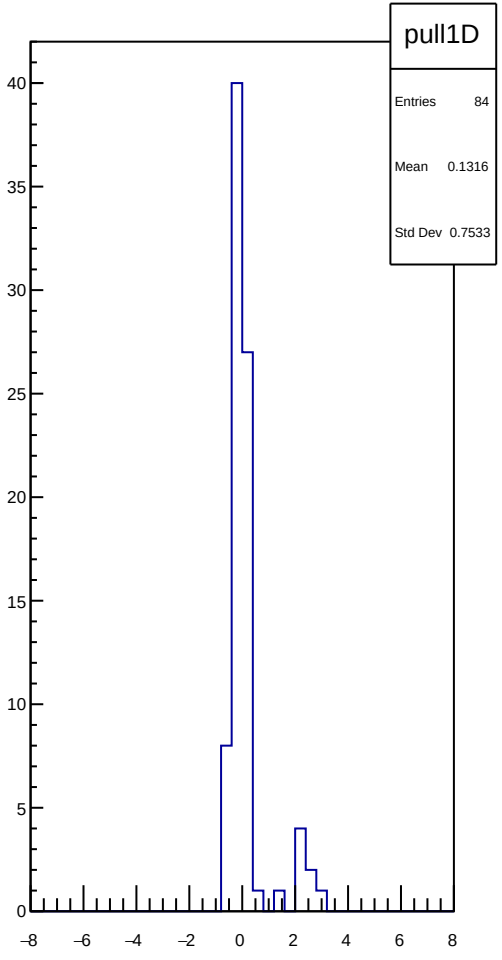

pull1D
Entries 84
Mean −0.03099
Std Dev 0.4511

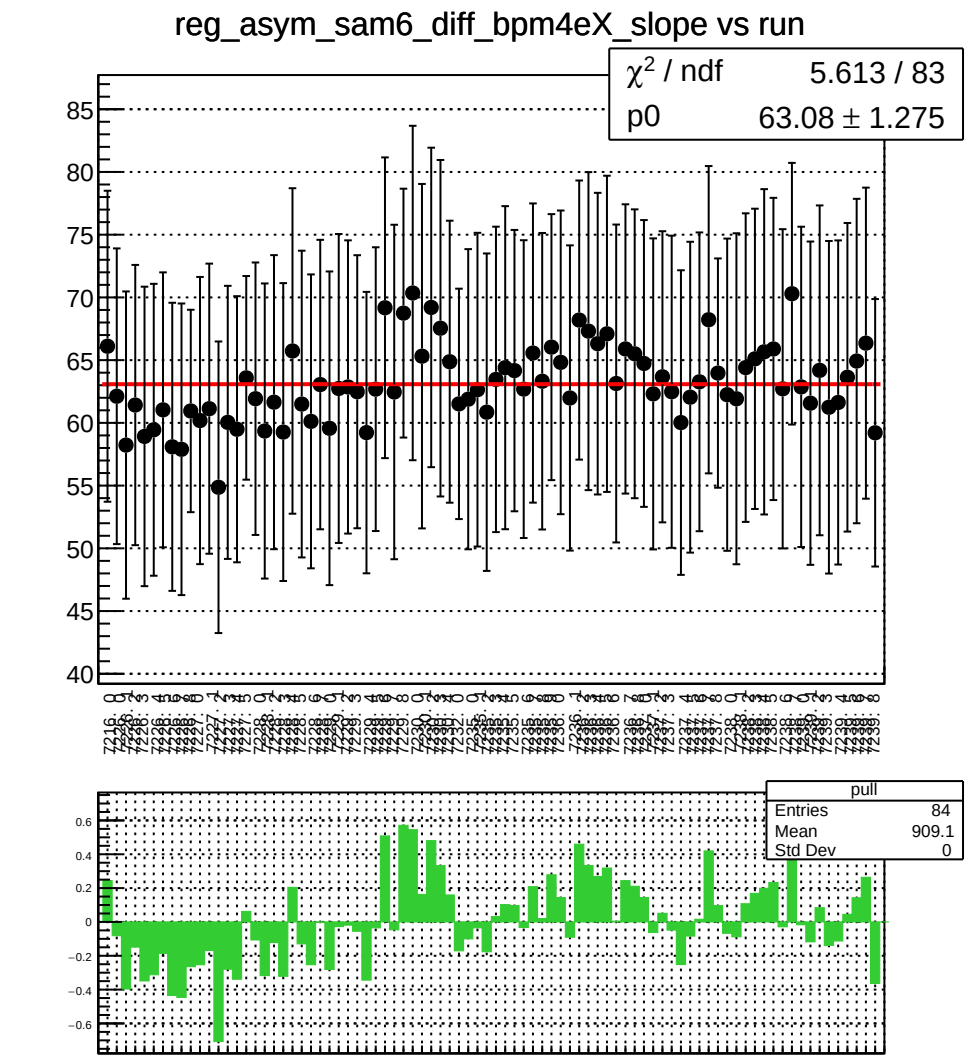

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 13.49 / 83
p0 −0.4368 ± 0.0361
pull
Entries 84
Mean 198.2
Std Dev 0

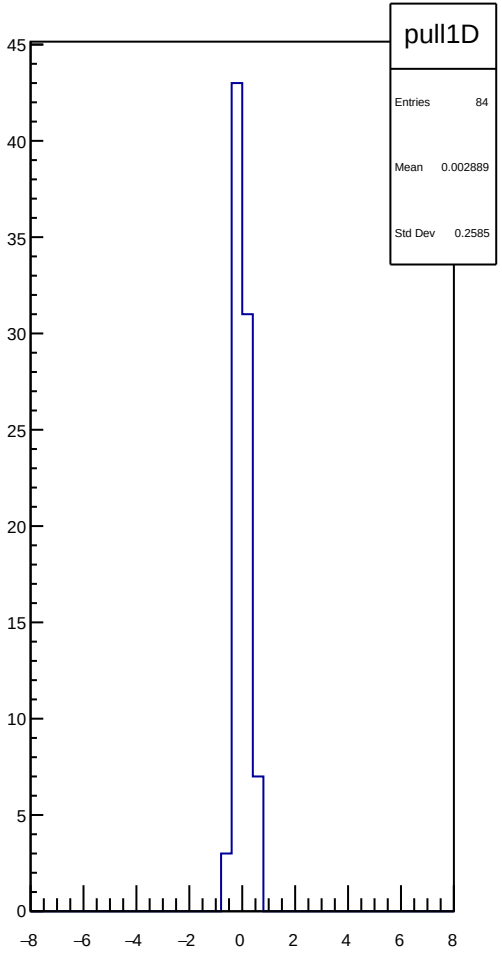

pull1D
Entries 84
Mean −0.03315
Std Dev 0.3994

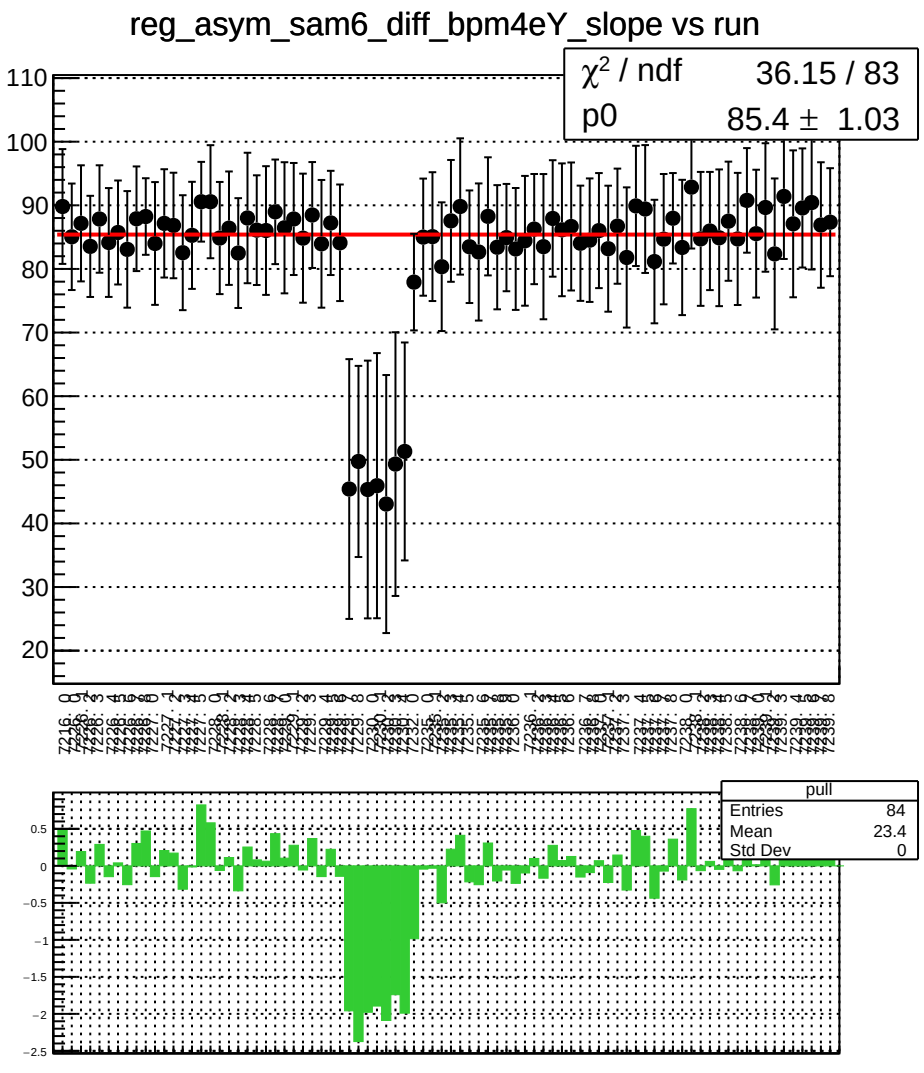

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 3.789 / 83
p0 22.81 ± 1.251
pull
Entries 84
Mean 1967
Std Dev 0
pull1D
Entries 84
Mean −0.001155
Std Dev 0.2124

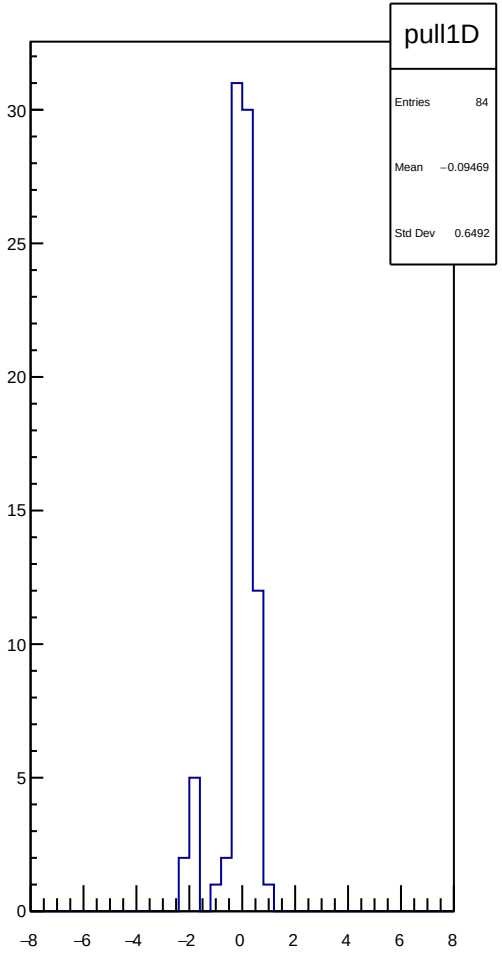

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 49.13 / 83
p0 39.85 ± 0.9379
pull
Entries 84
Mean 31.62
Std Dev 0

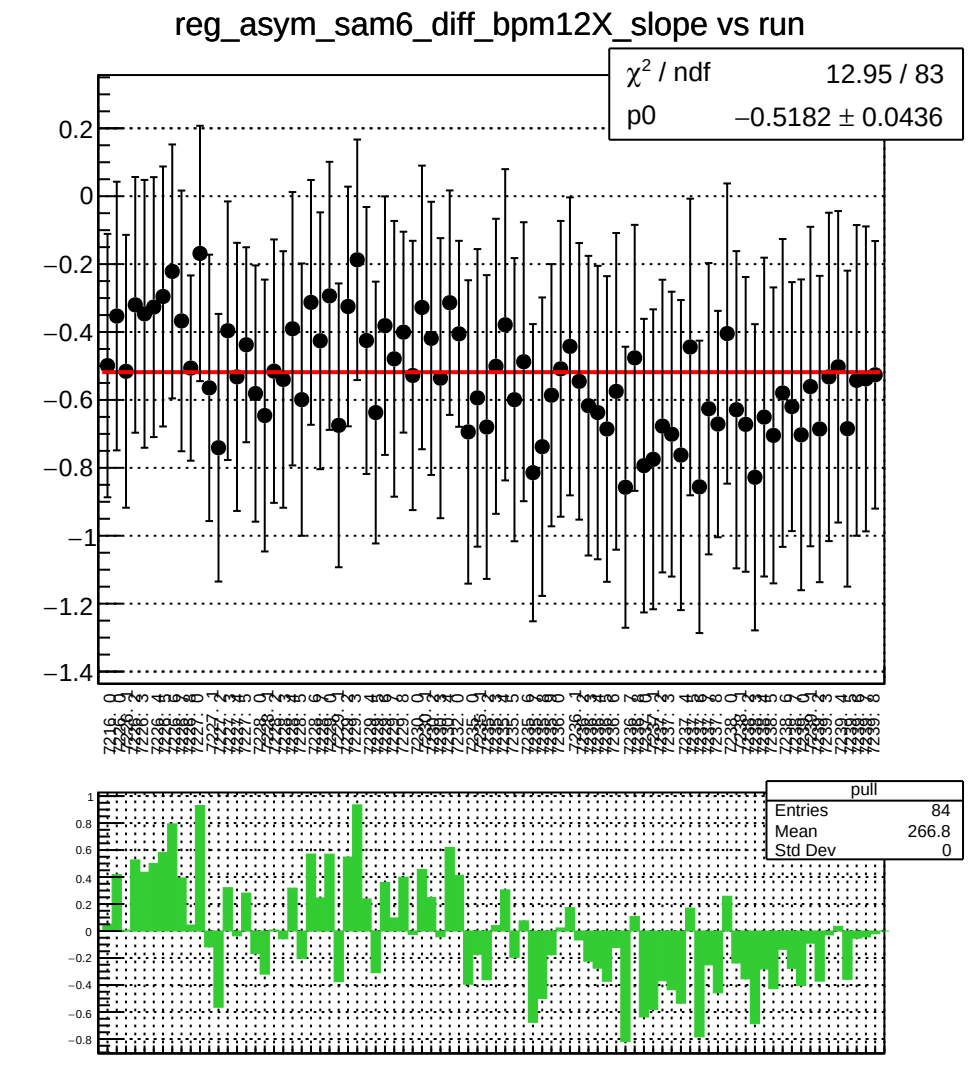

pull1D
Entries 84
Mean 0.1316
Std Dev 0.7533

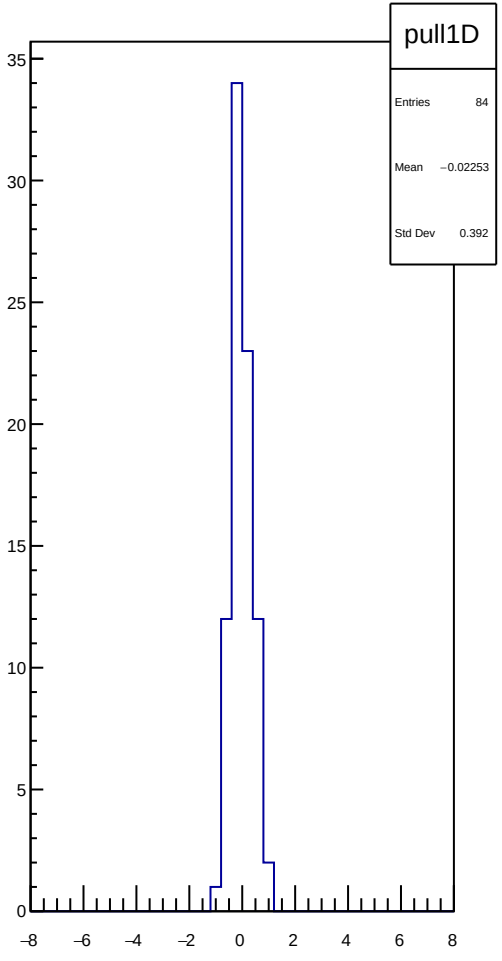

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 5.613 / 83
p0 63.08 ± 1.275
pull
Entries 84
Mean 909.1
Std Dev 0

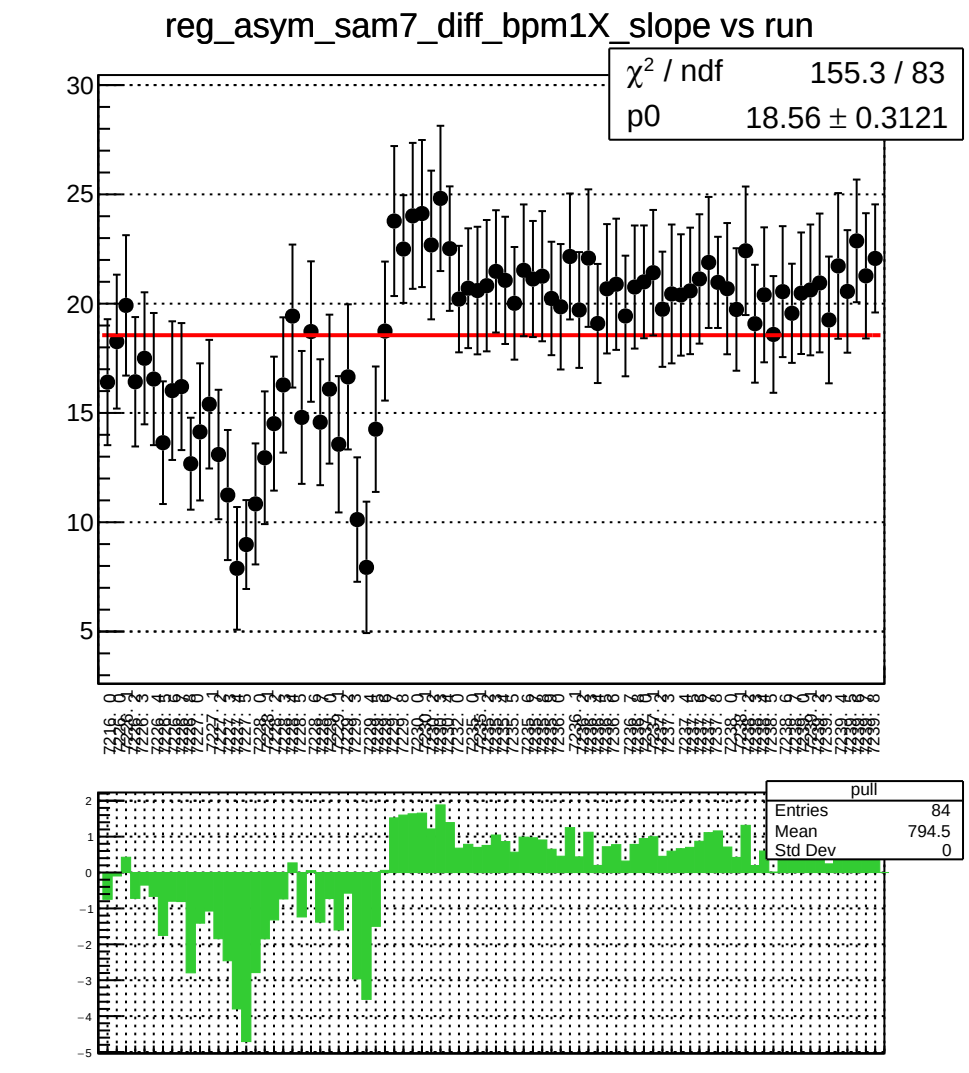

pull1D
Entries 84
Mean 0.002889
Std Dev 0.2585

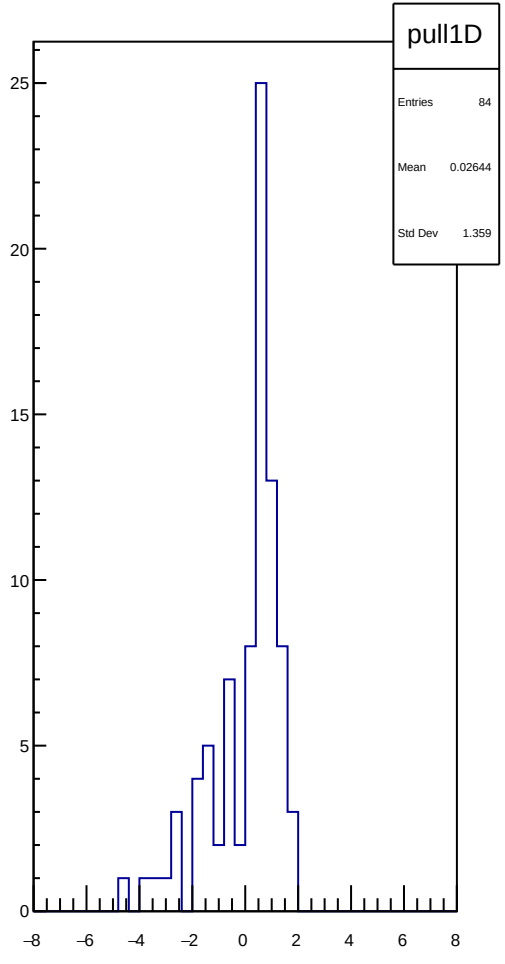

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 36.15 / 83
p0 85.4 ± 1.03
pull
Entries 84
Mean 23.4
Std Dev 0

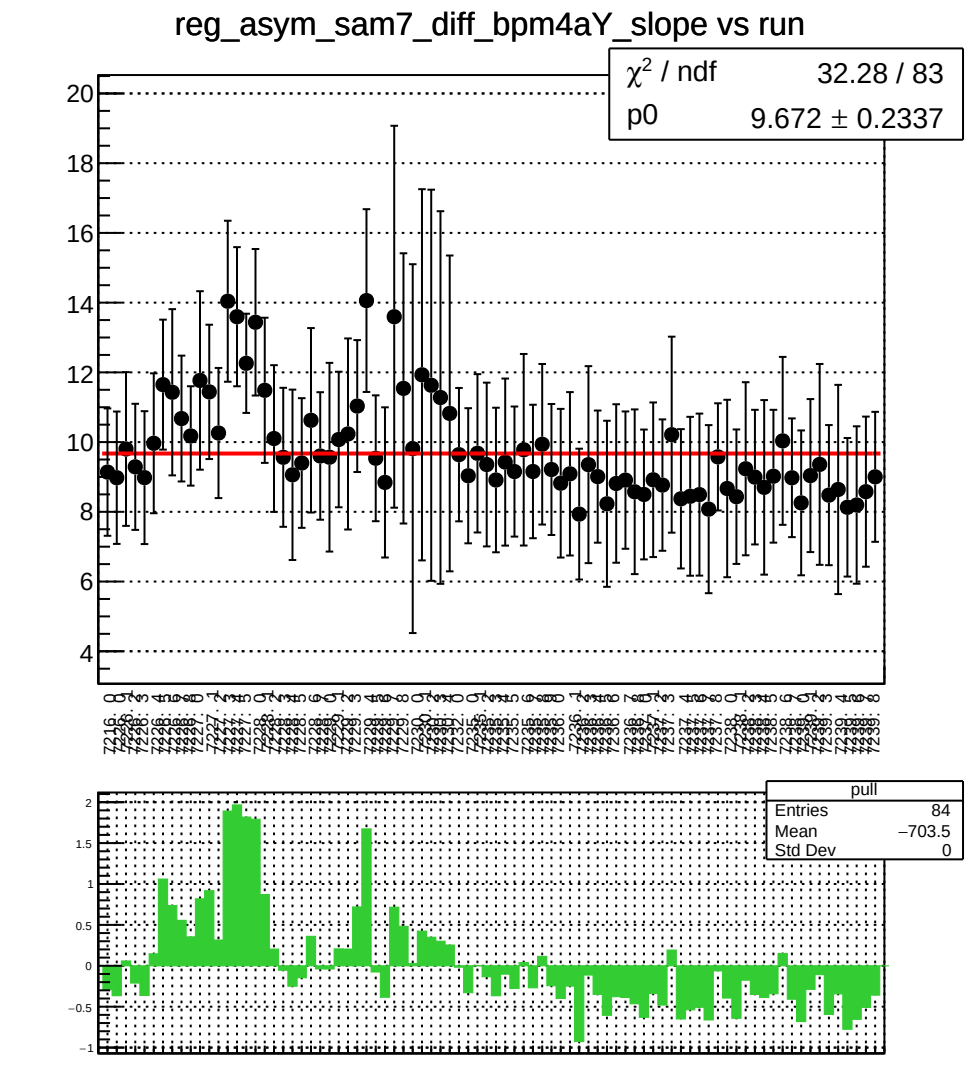

pull1D
Entries 84
Mean −0.09469
Std Dev 0.6492

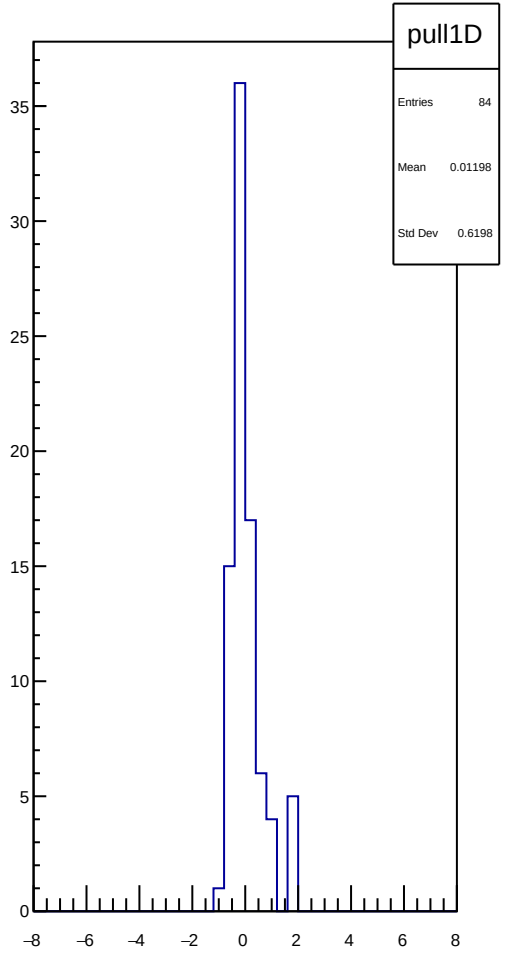

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 12.95 / 83
p0 −0.5182 ± 0.0436
pull
Entries 84
Mean 266.8
Std Dev 0

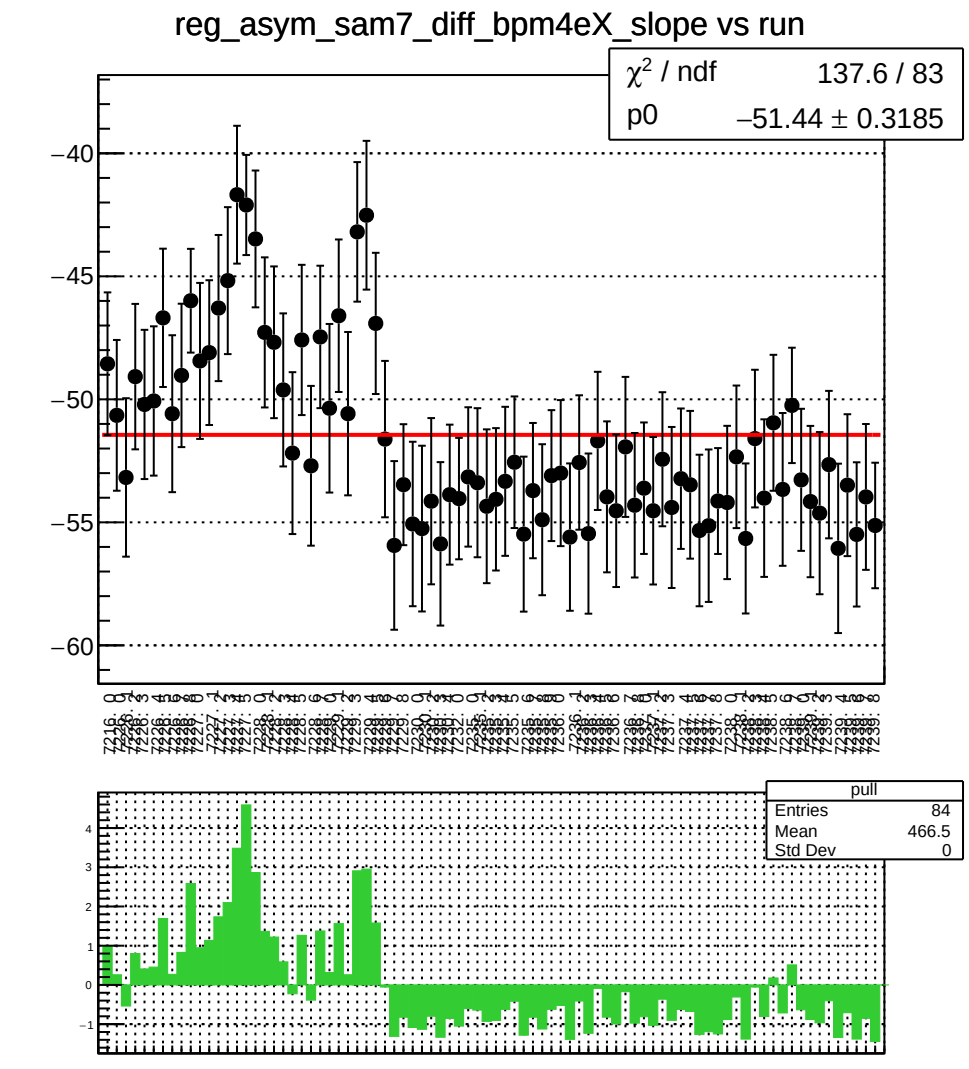

pull1D
Entries 84
Mean −0.02253
Std Dev 0.392

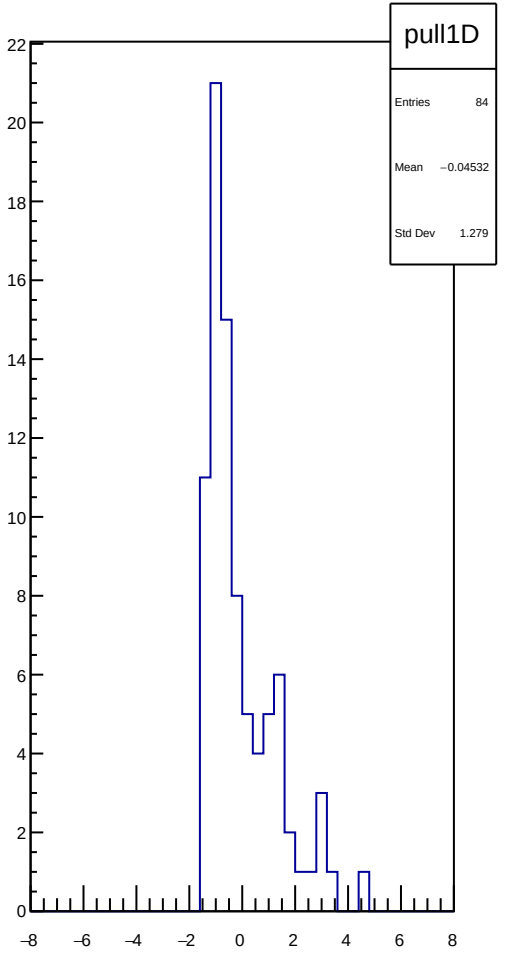

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 155.3 / 83
p0 18.56 ± 0.3121
pull
Entries 84
Mean 794.5
Std Dev 0

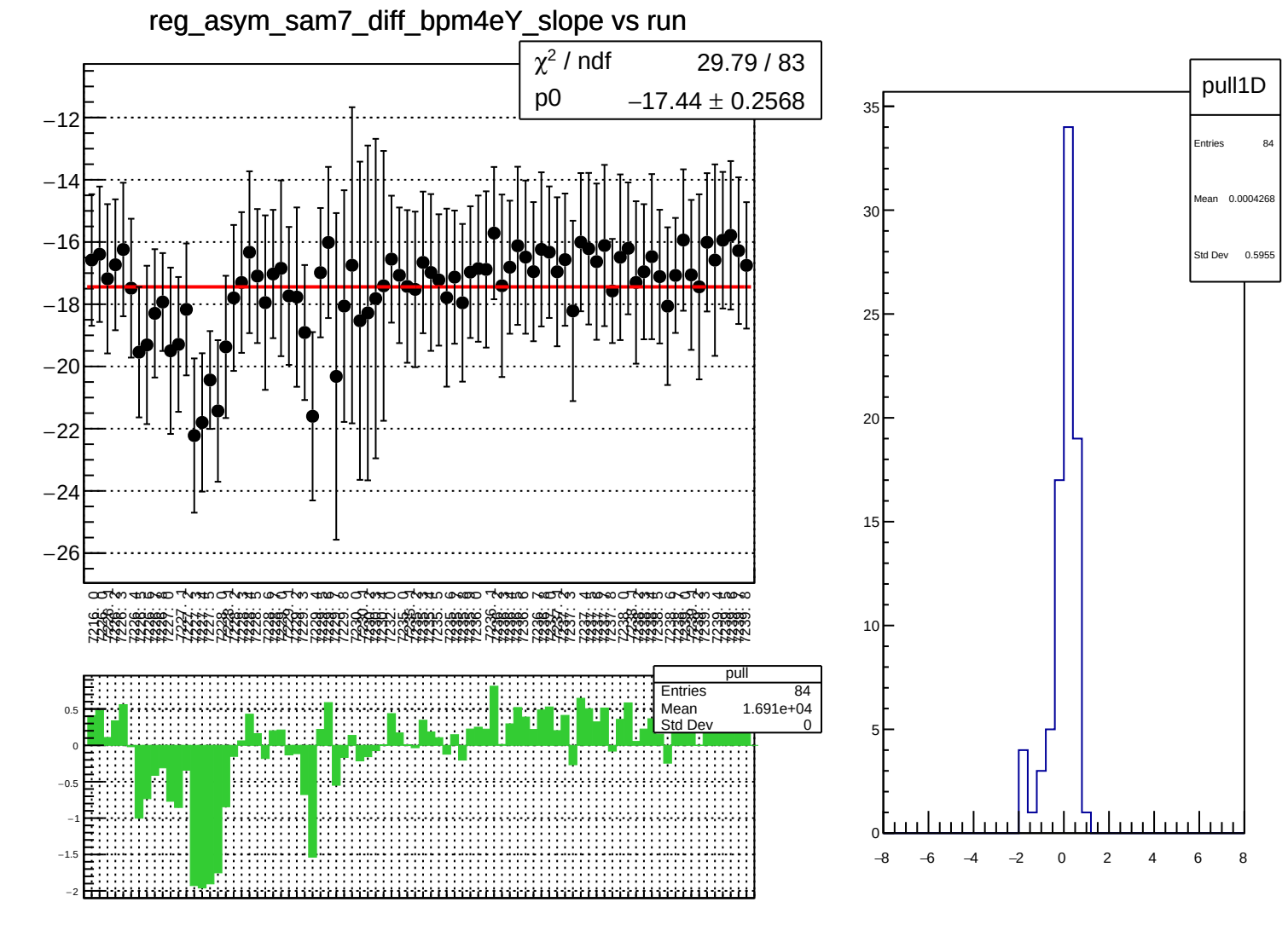

pull1D
Entries 84
Mean 0.02644
Std Dev 1.359

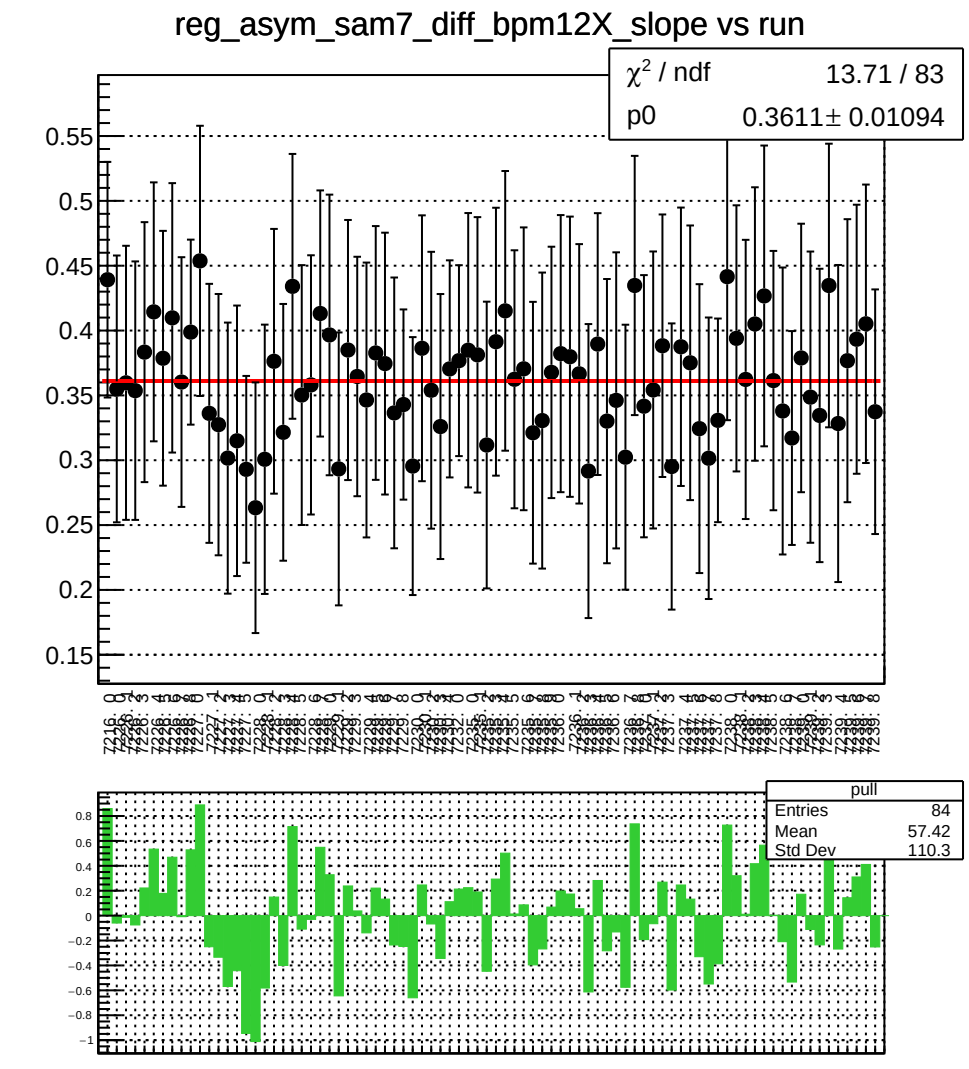

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 32.28 / 83
p0 9.672 ± 0.2337
pull
Entries 84
Mean −703.5
Std Dev 0

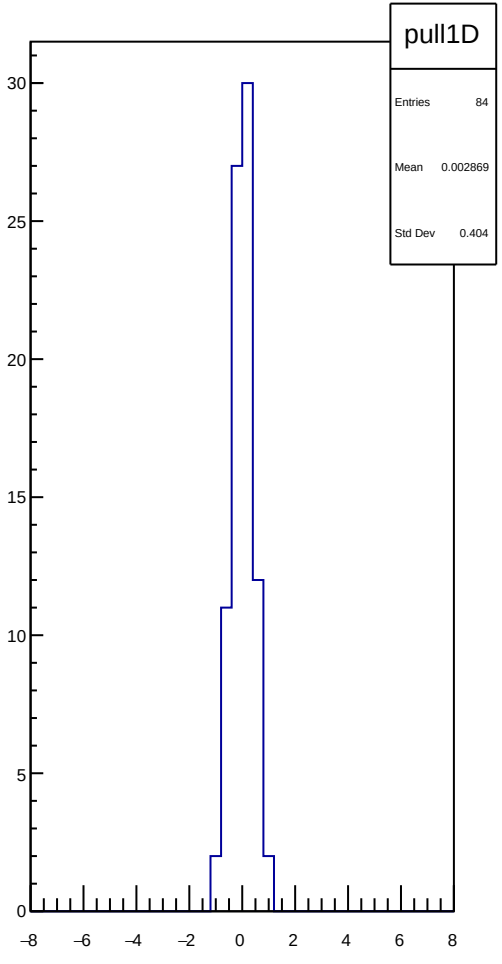

pull1D
Entries 84
Mean 0.01198
Std Dev 0.6198

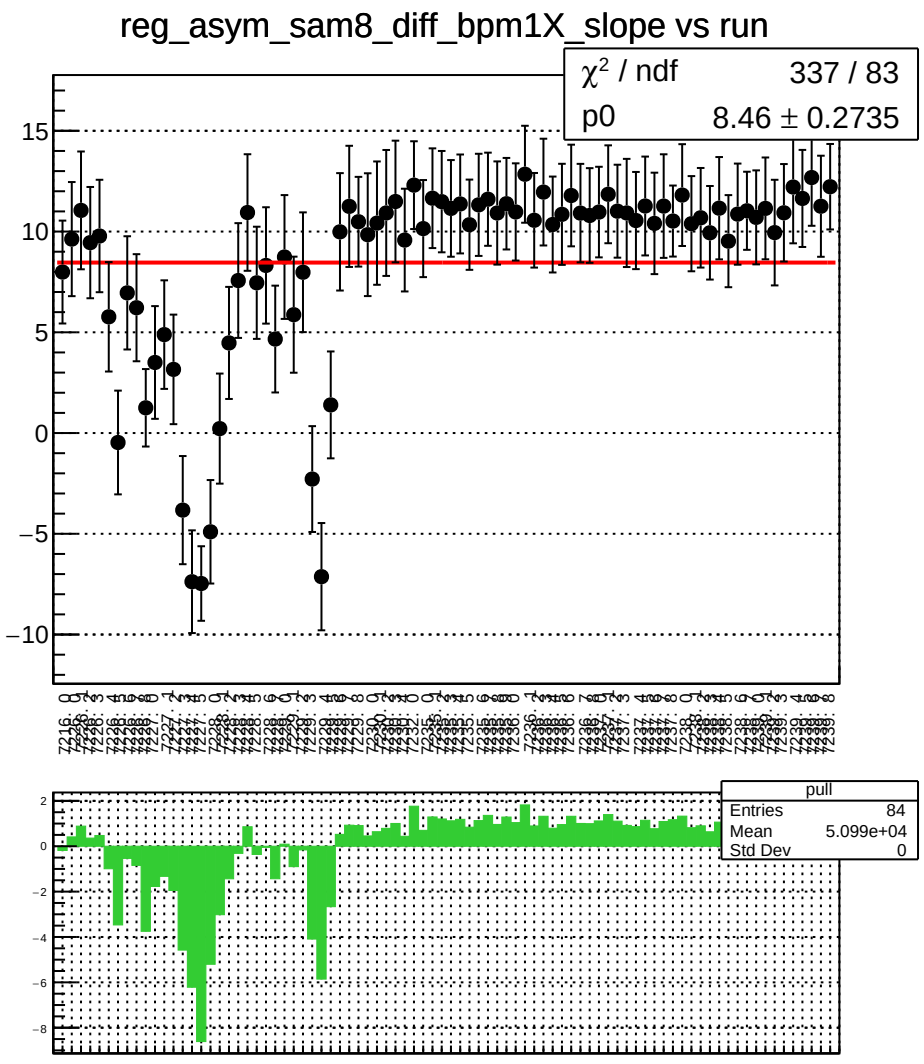

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 137.6 / 83
p0 −51.44 ± 0.3185
−40
−45
−50
−55
−60
pull
Entries 84
Mean 466.5
Std Dev 0
4
3
2
1
0
−1

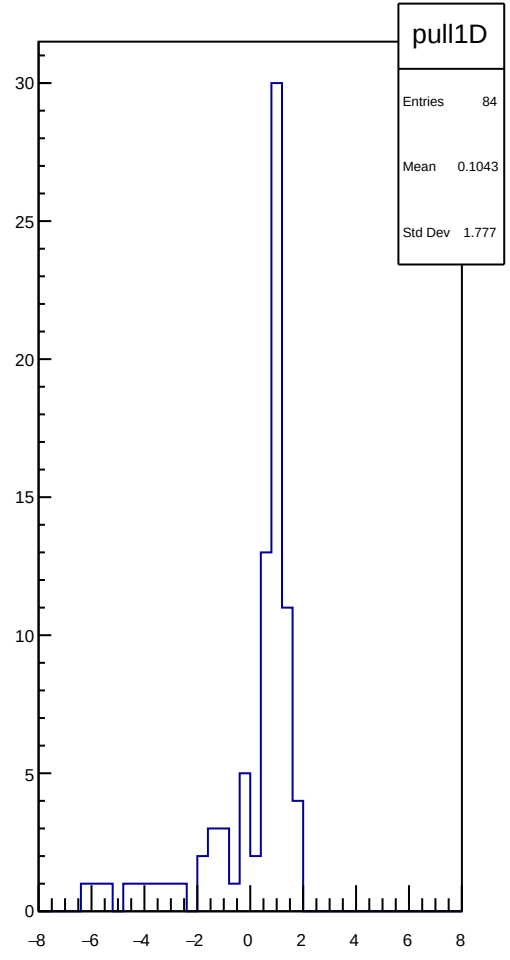

pull1D
Entries 84
Mean −0.04532
Std Dev 1.279
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

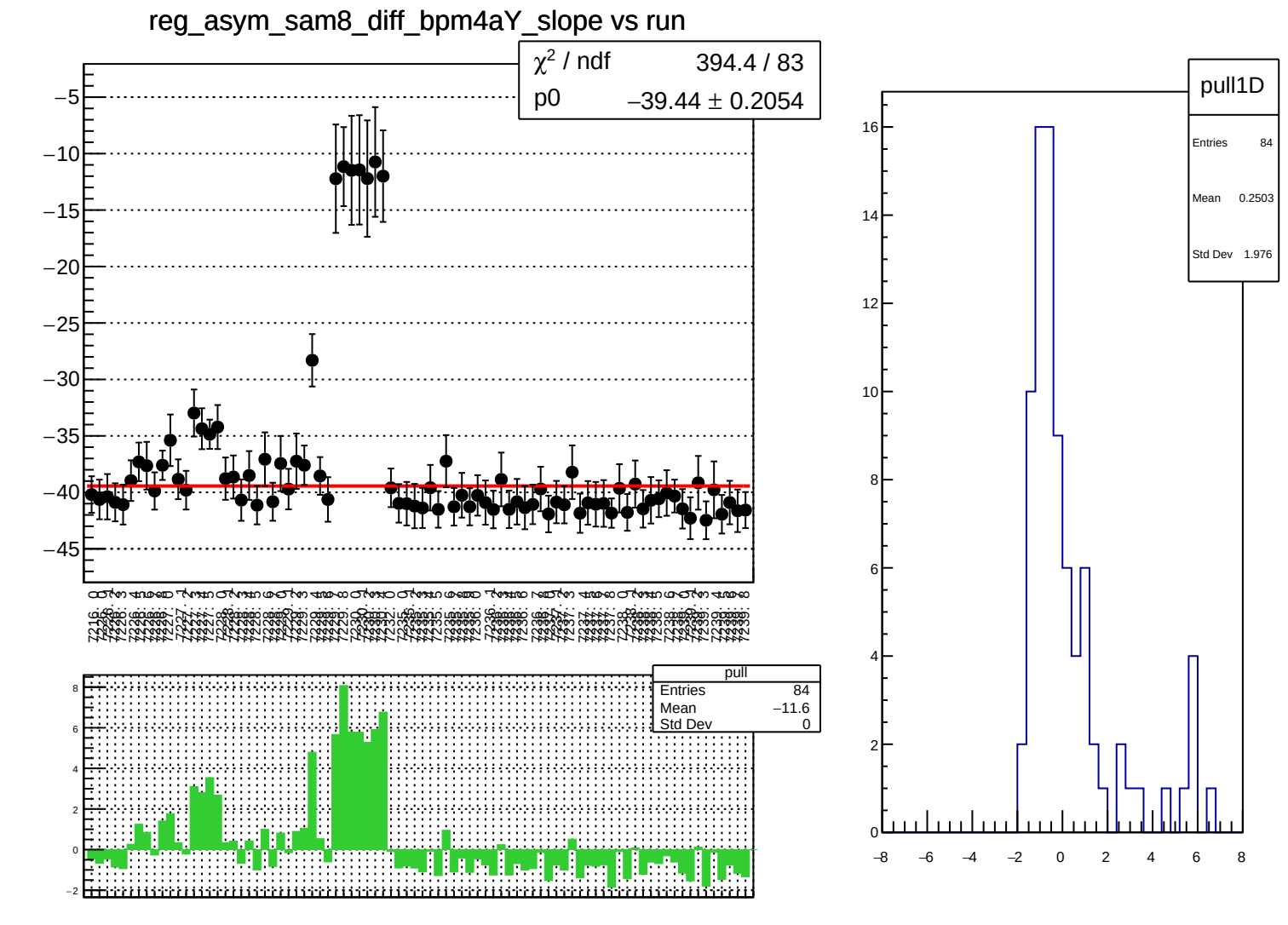

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 29.79 / 83
p0 −17.44 ± 0.2568
pull
Entries 84
Mean 1.691e+04
Std Dev 0
pull1D
Entries 84
Mean 0.0004268
Std Dev 0.5955

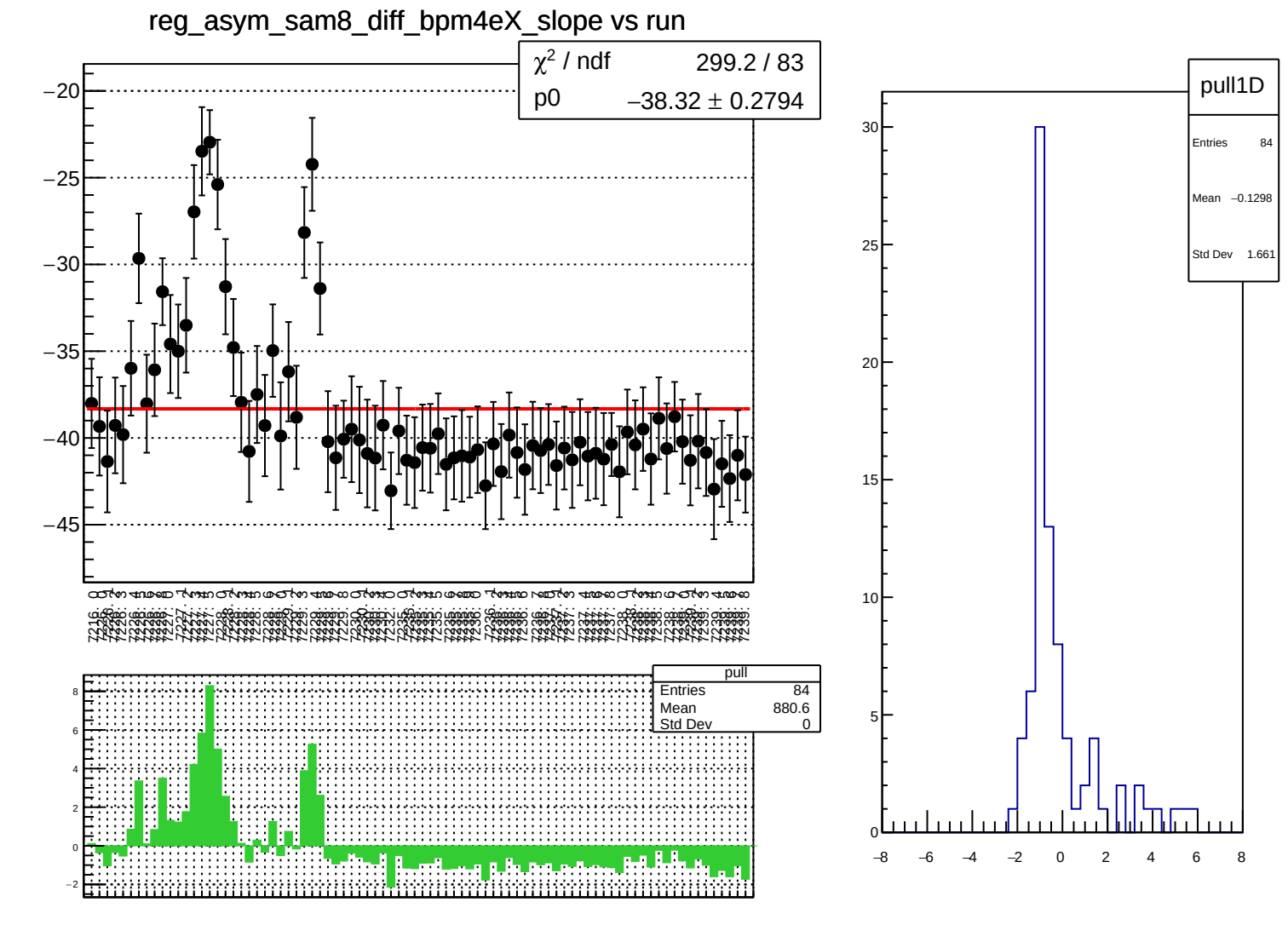

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 13.71 / 83
p0 0.3611± 0.01094
pull
Entries 84
Mean 57.42
Std Dev 110.3

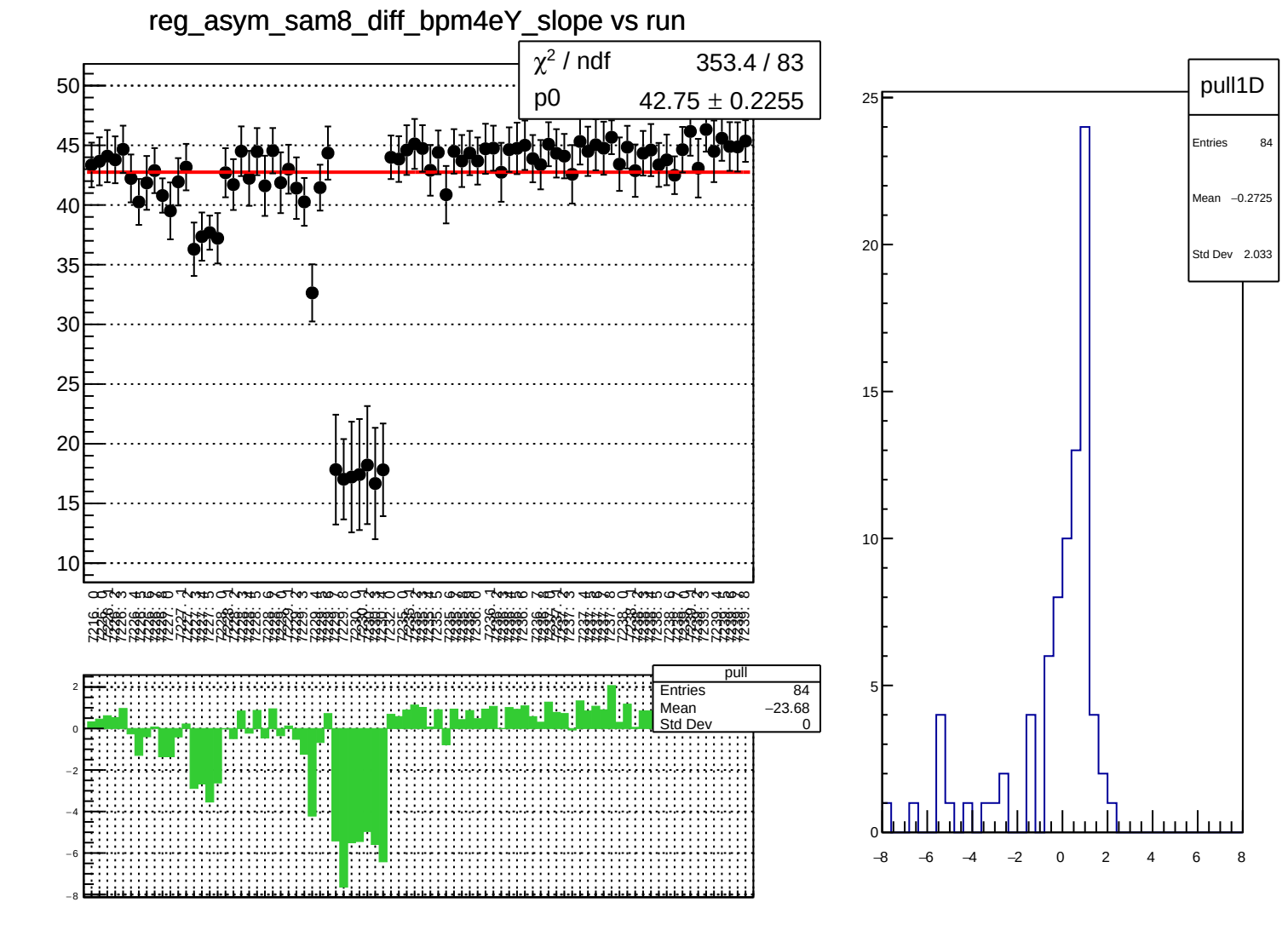

pull1D
Entries 84
Mean 0.002869
Std Dev 0.404

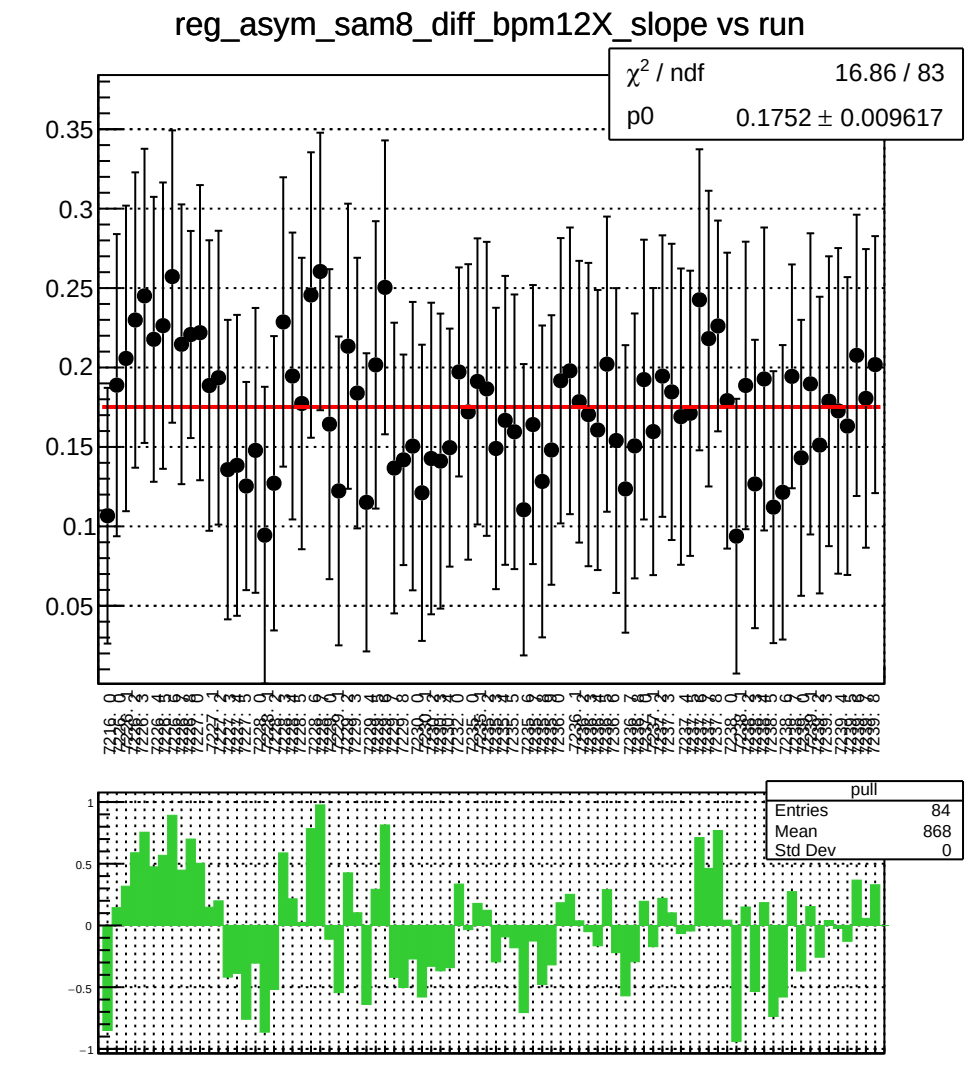

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 337 / 83
p0 8.46 ± 0.2735
pull
Entries 84
Mean 5.099e+04
Std Dev 0

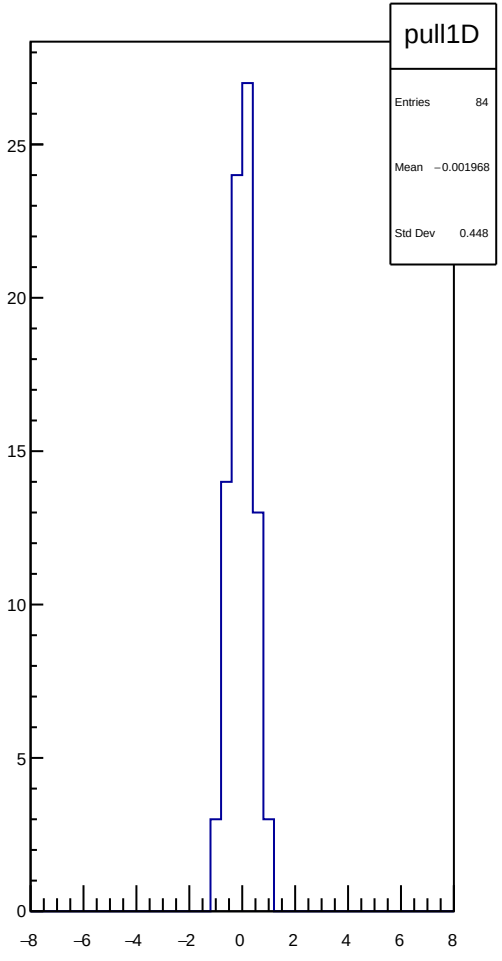

pull1D
Entries 84
Mean 0.1043
Std Dev 1.777

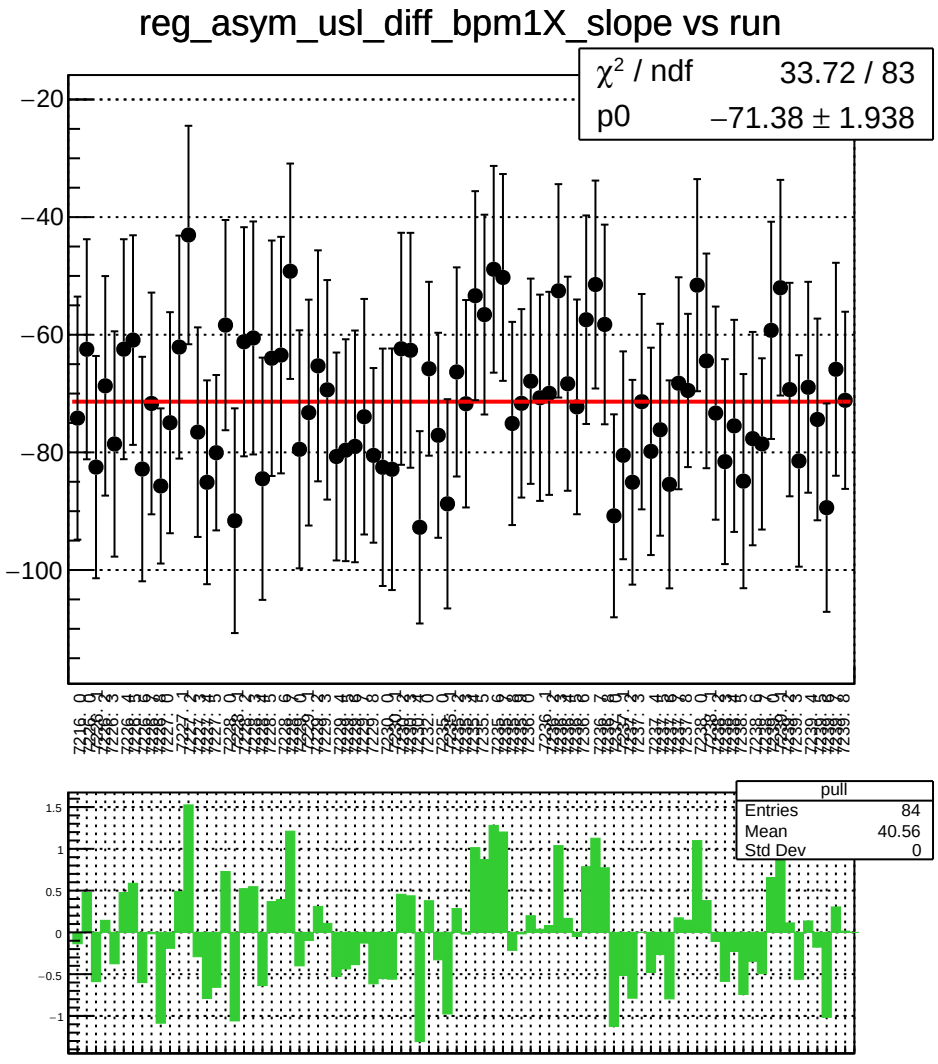

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 394.4 / 83
p0 −39.44 ± 0.2054
pull
Entries 84
Mean −11.6
Std Dev 0
pull1D
Entries 84
Mean 0.2503
Std Dev 1.976

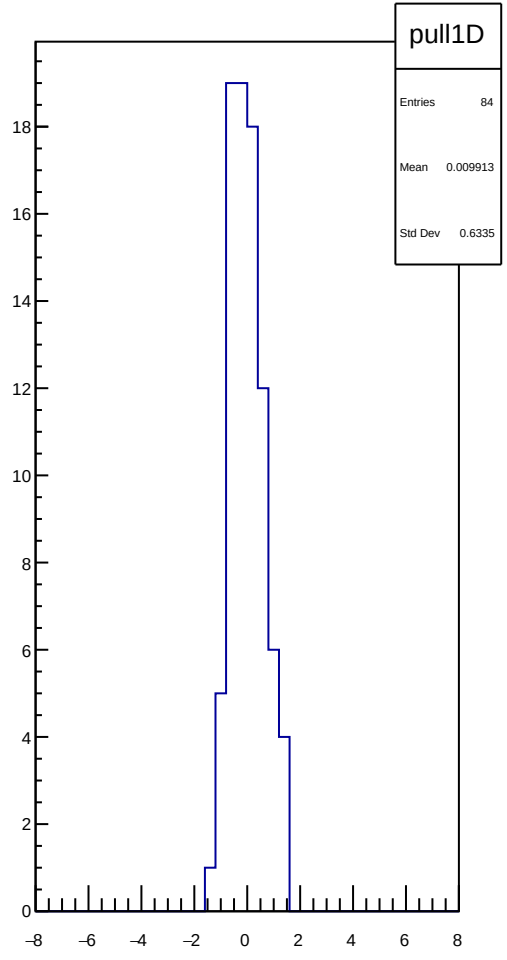

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 299.2 / 83
p0 −38.32 ± 0.2794
pull
Entries 84
Mean 880.6
Std Dev 0
pull1D
Entries 84
Mean −0.1298
Std Dev 1.661

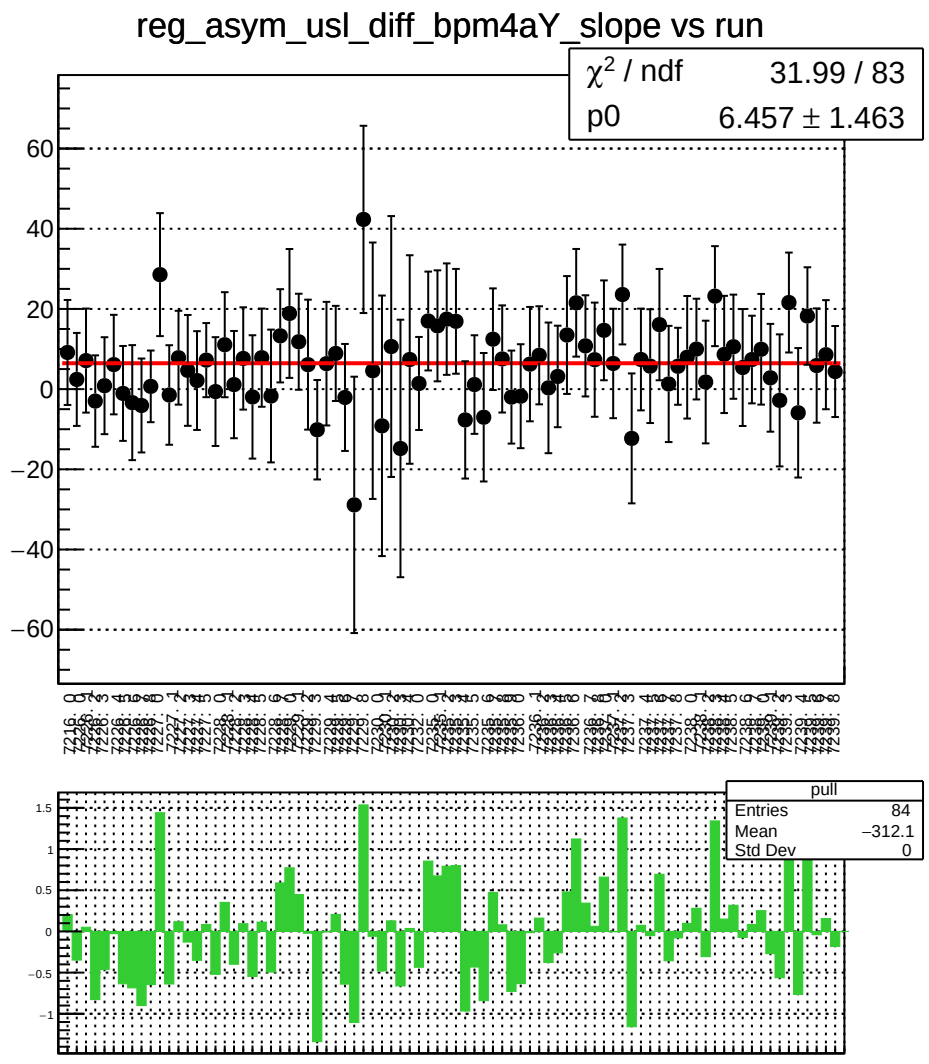

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 353.4 / 83
p0 42.75 ± 0.2255
pull
Entries 84
Mean −23.68
Std Dev 0
pull1D
Entries 84
Mean −0.2725
Std Dev 2.033

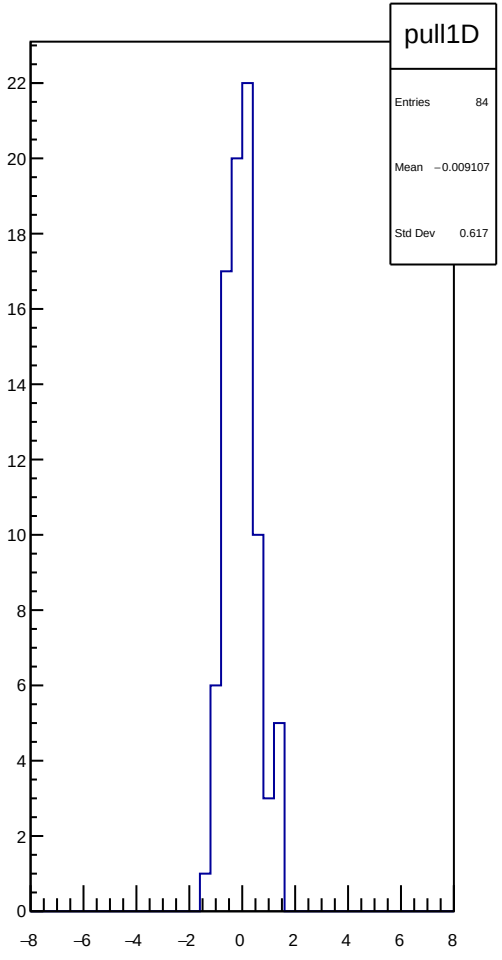

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 16.86 / 83
p0 0.1752 ± 0.009617
pull
Entries 84
Mean 868
Std Dev 0

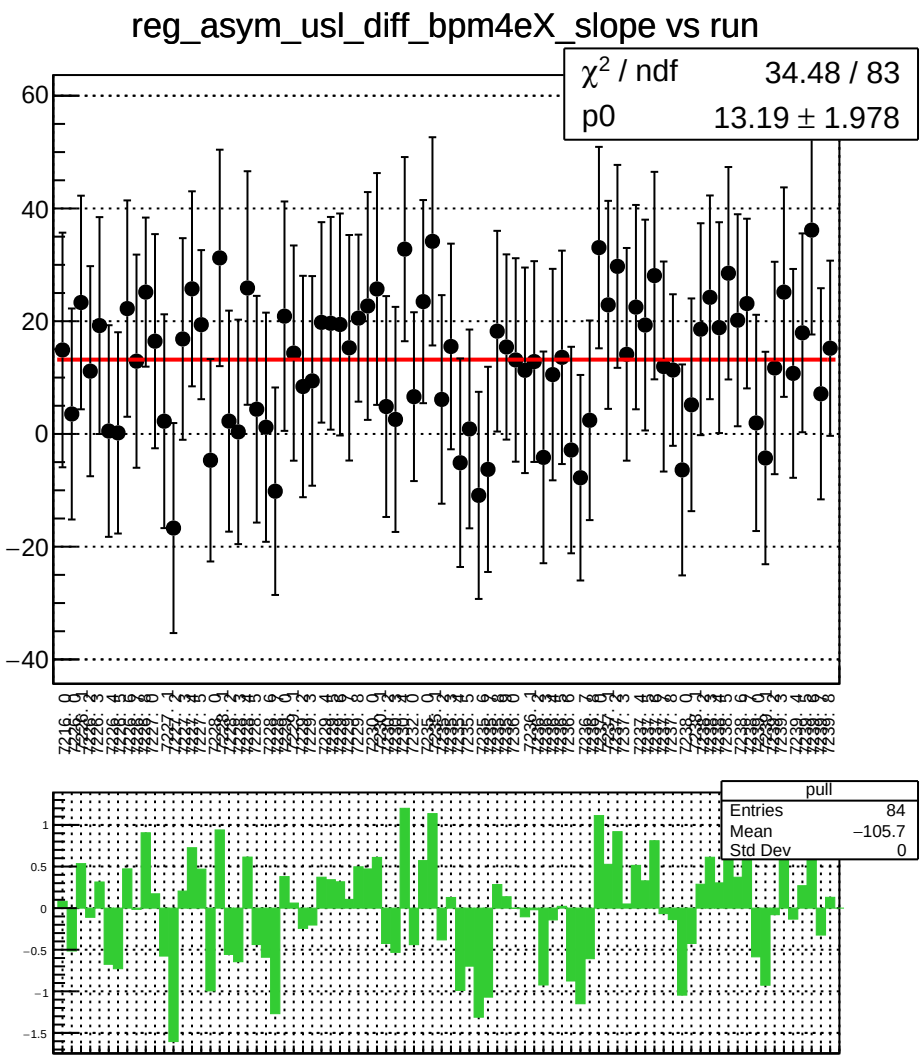

pull1D
Entries 84
Mean −0.001968
Std Dev 0.448

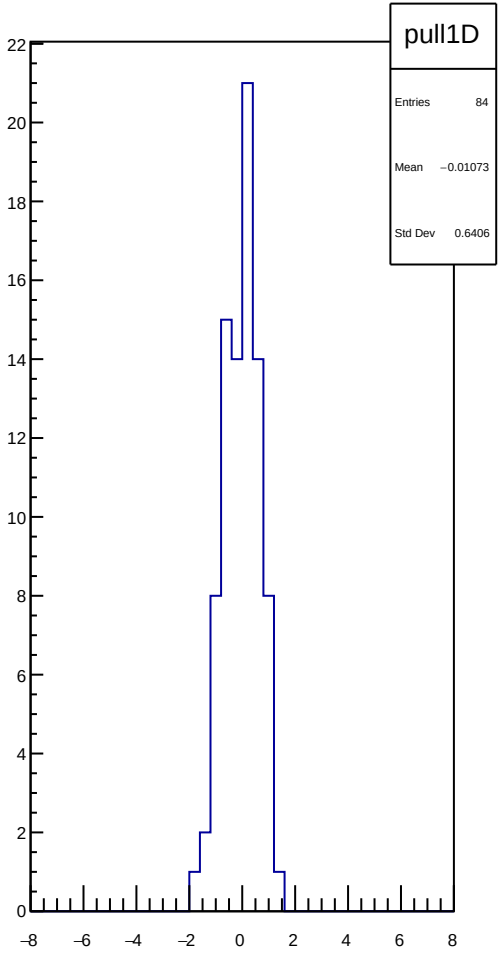

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 33.72 / 83
p0 −71.38 ± 1.938
−20
−40
−60
−80
−100
pull
Entries 84
Mean 40.56
Std Dev 0
1.5
1
0.5
0
−0.5
−1

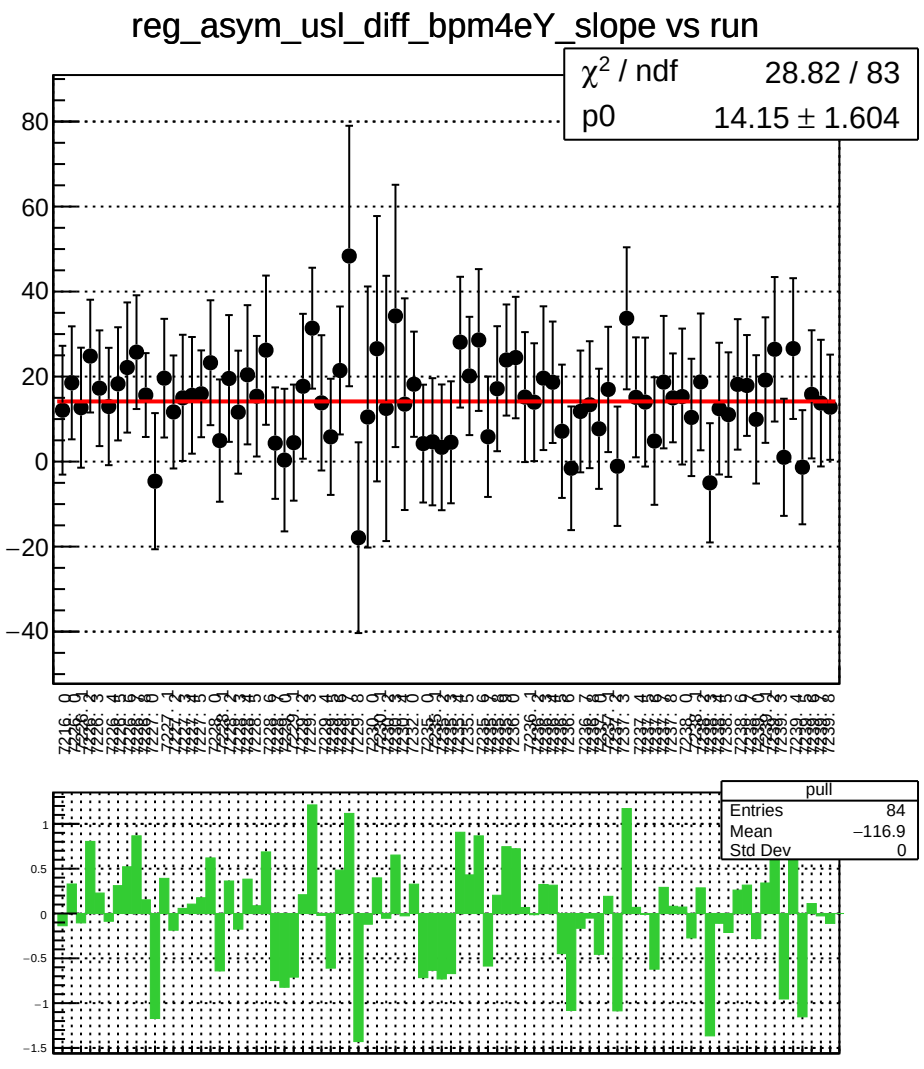

pull1D
Entries 84
Mean 0.009913
Std Dev 0.6335
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

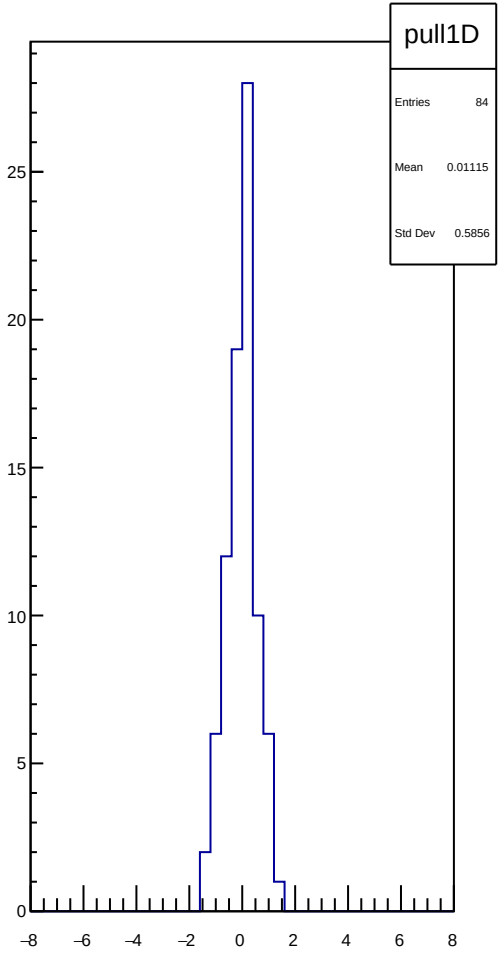

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 31.99 / 83
p0 6.457 ± 1.463
pull
Entries 84
Mean −312.1
Std Dev 0

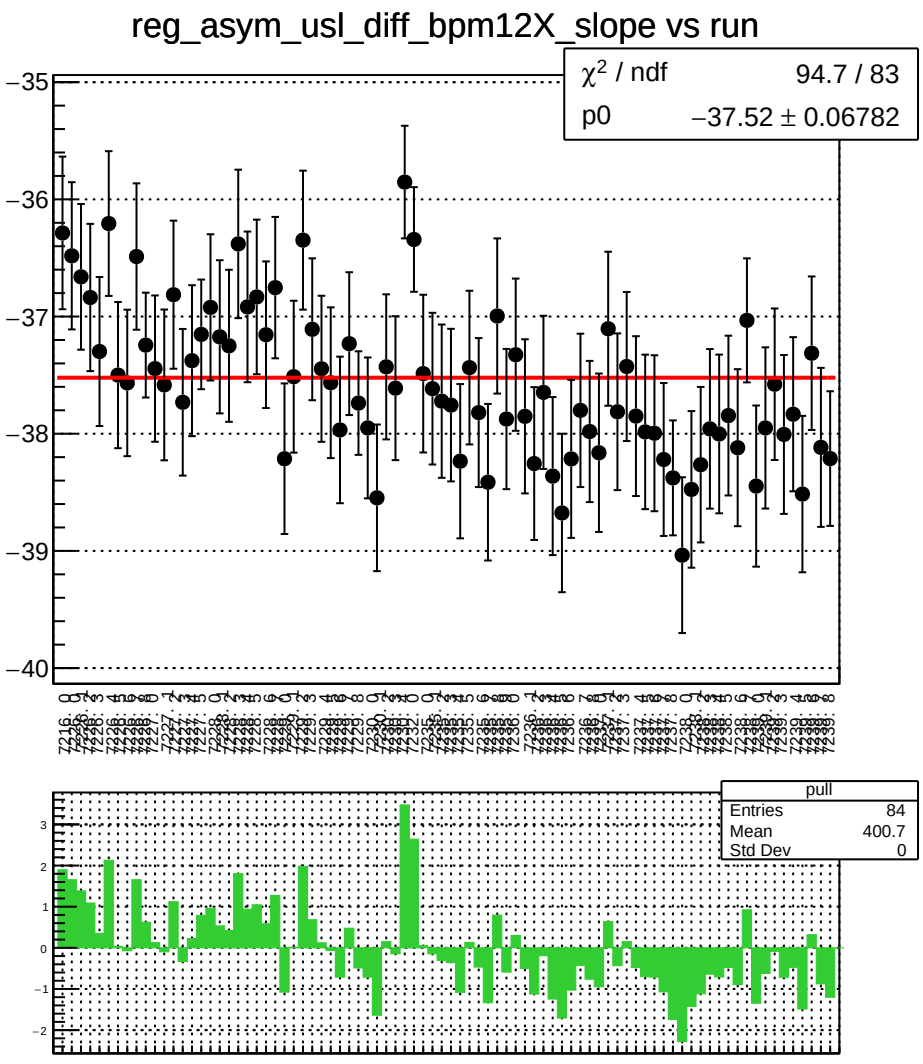

pull1D
Entries 84
Mean −0.009107
Std Dev 0.617

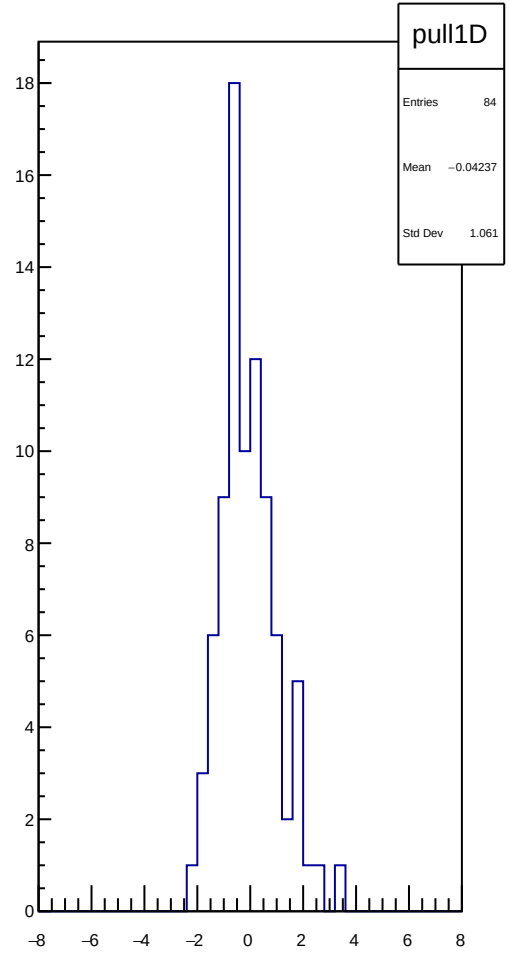

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 34.48 / 83
p0 13.19 ± 1.978
pull
Entries 84
Mean −105.7
Std Dev 0

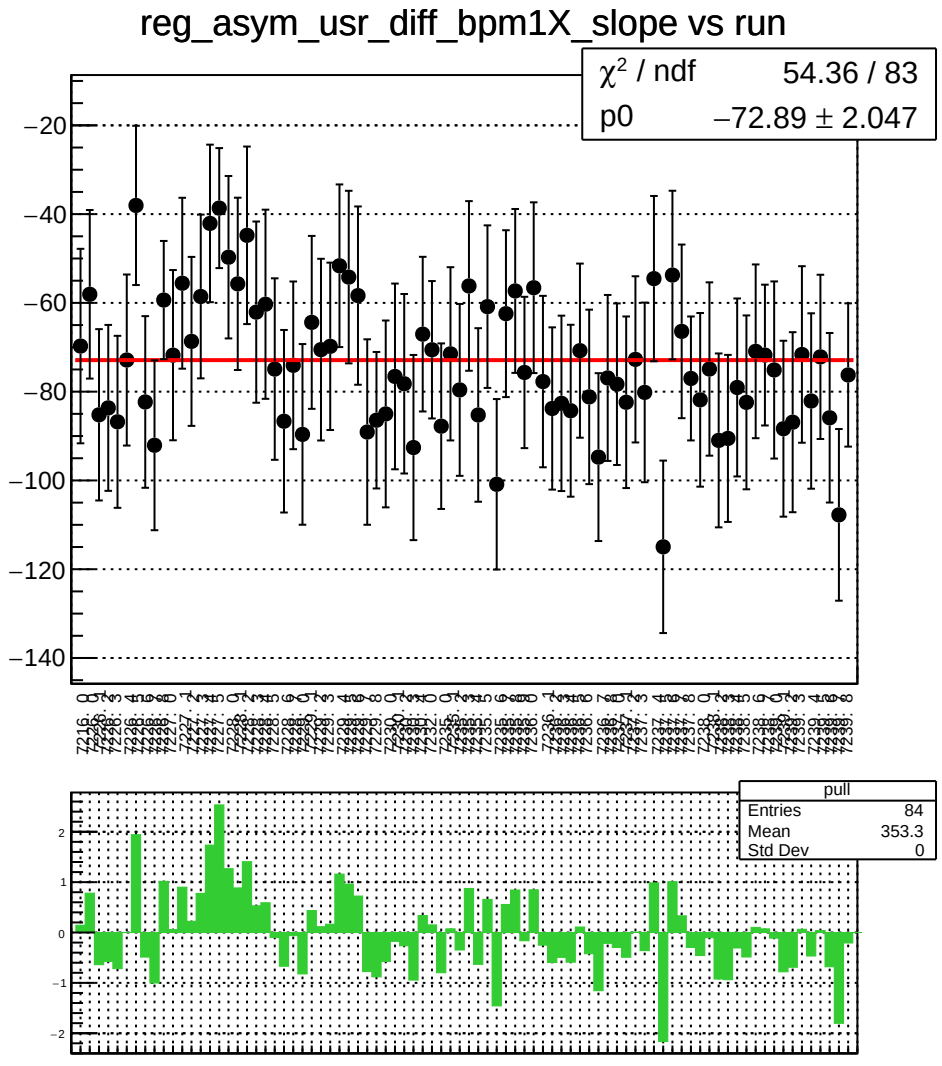

pull1D
Entries 84
Mean −0.01073
Std Dev 0.6406

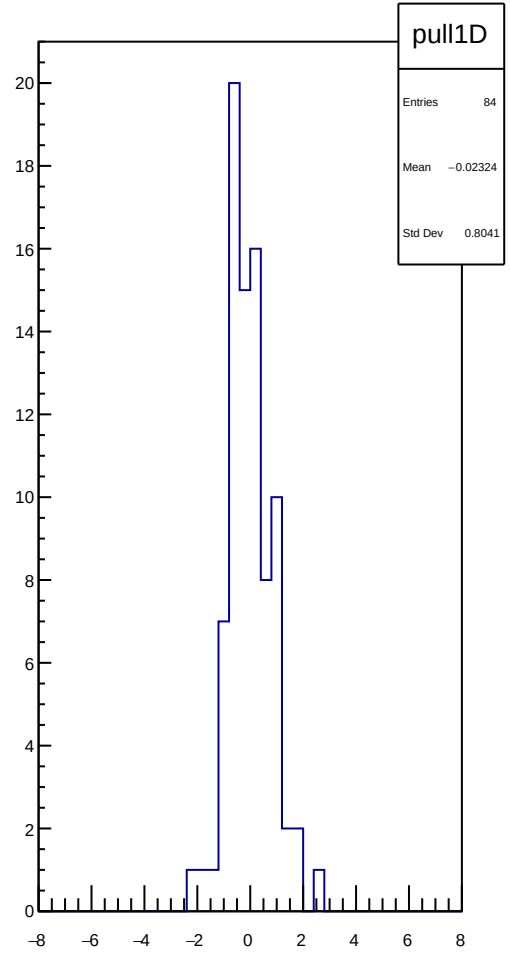

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 28.82 / 83
p0 14.15 ± 1.604
pull
Entries 84
Mean −116.9
Std Dev 0

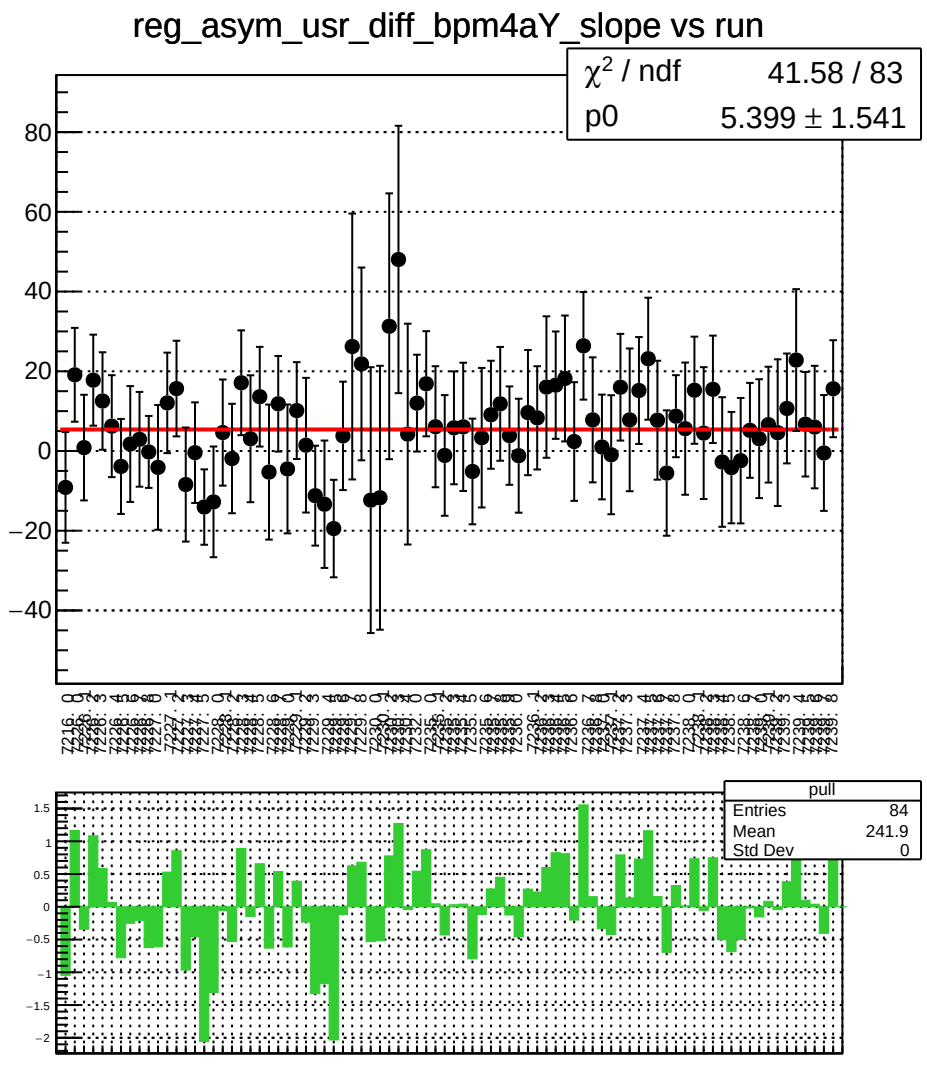

pull1D
Entries 84
Mean 0.01115
Std Dev 0.5856

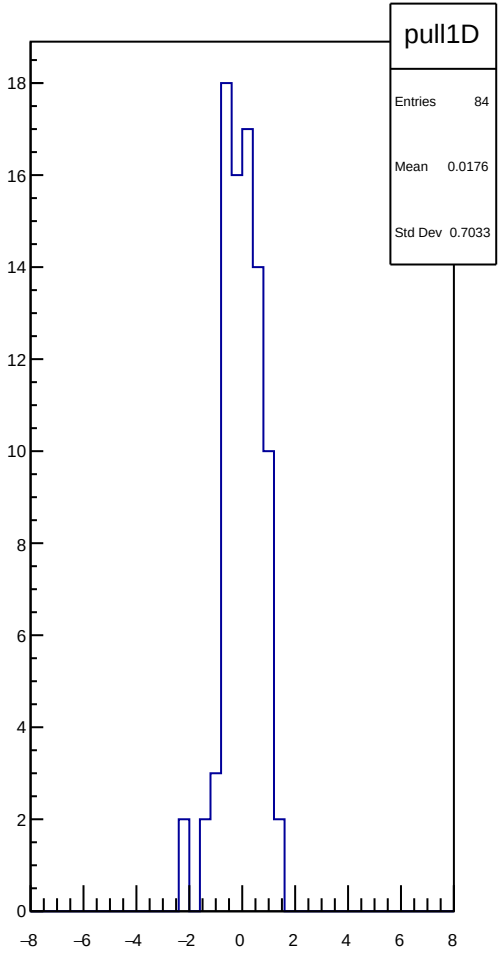

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 94.7 / 83
p0 −37.52 ± 0.06782
pull
Entries 84
Mean 400.7
Std Dev 0

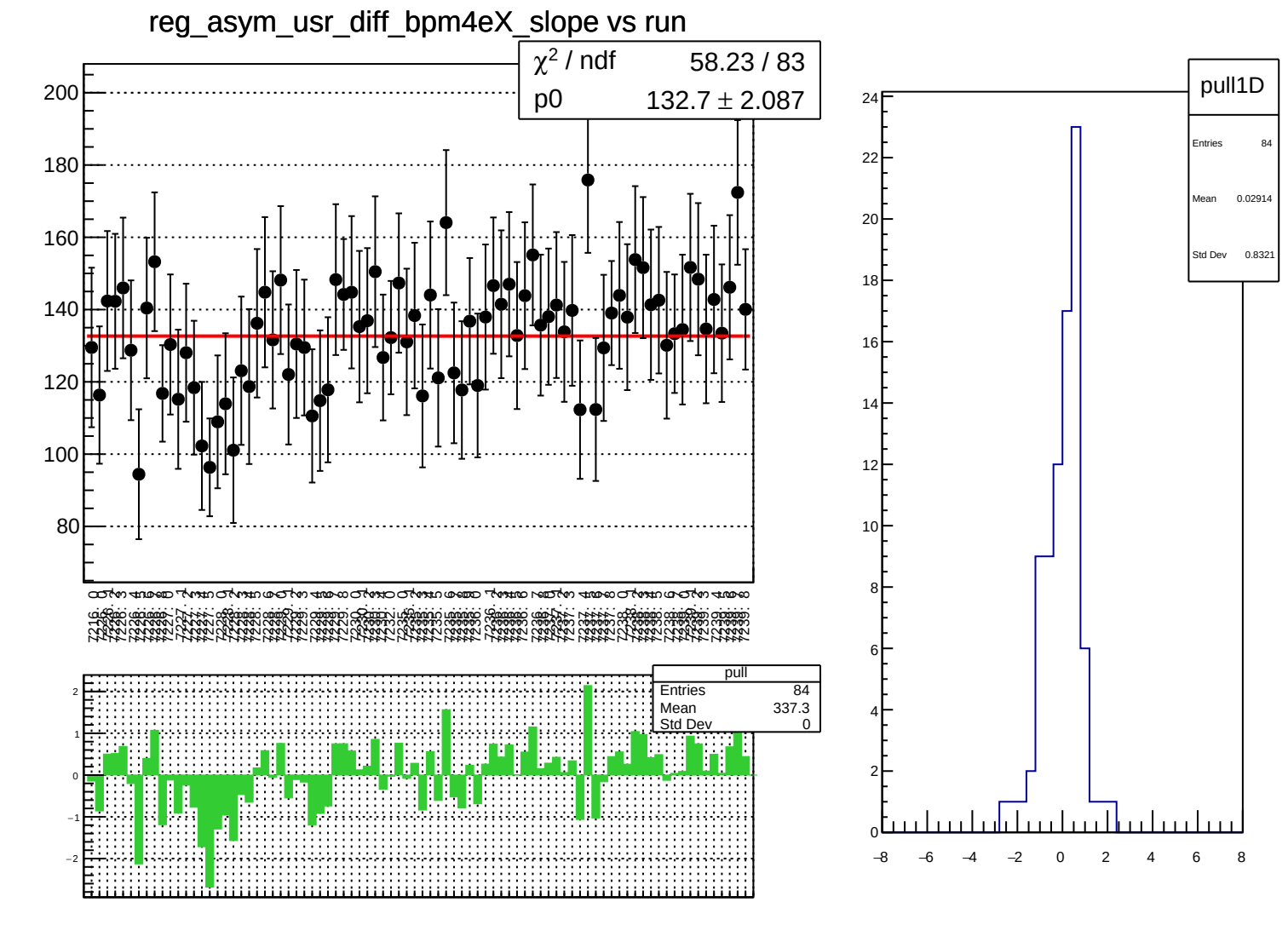

pull1D
Entries 84
Mean −0.04237
Std Dev 1.061

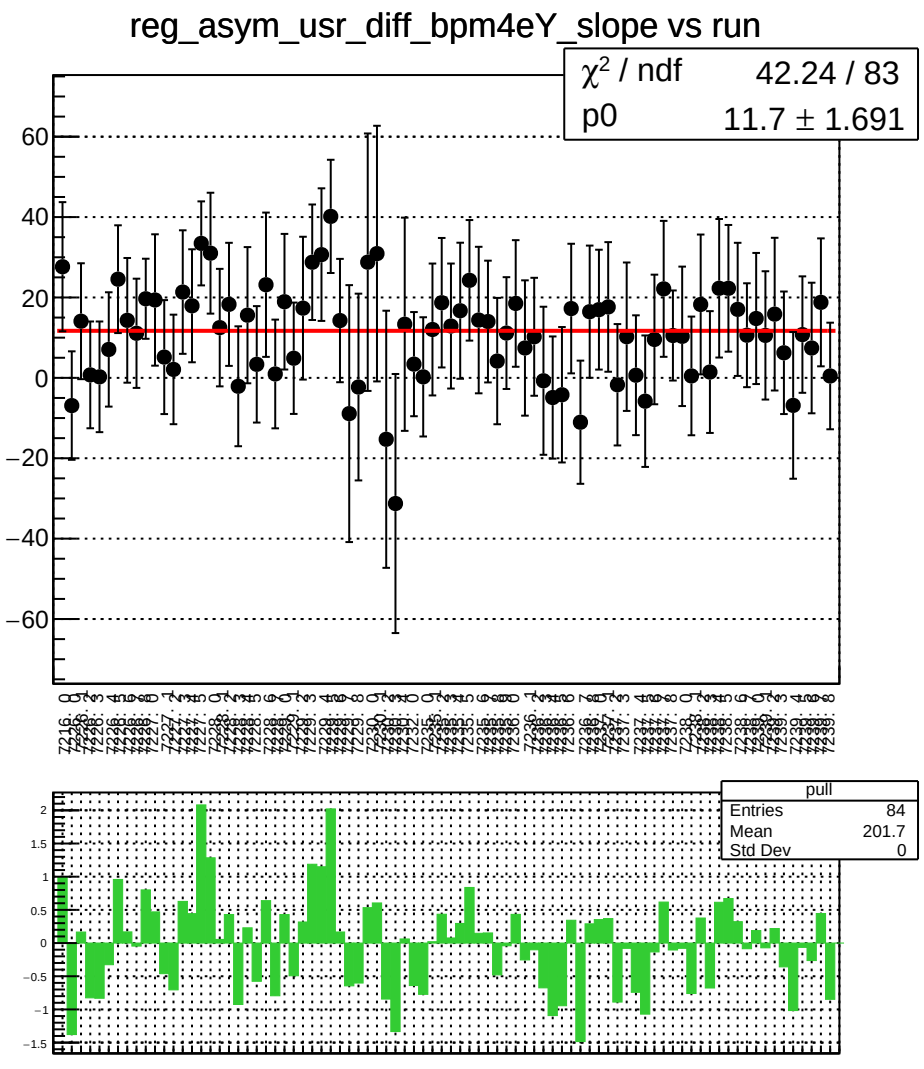

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 54.36 / 83
p0 −72.89 ± 2.047
pull
Entries 84
Mean 353.3
Std Dev 0

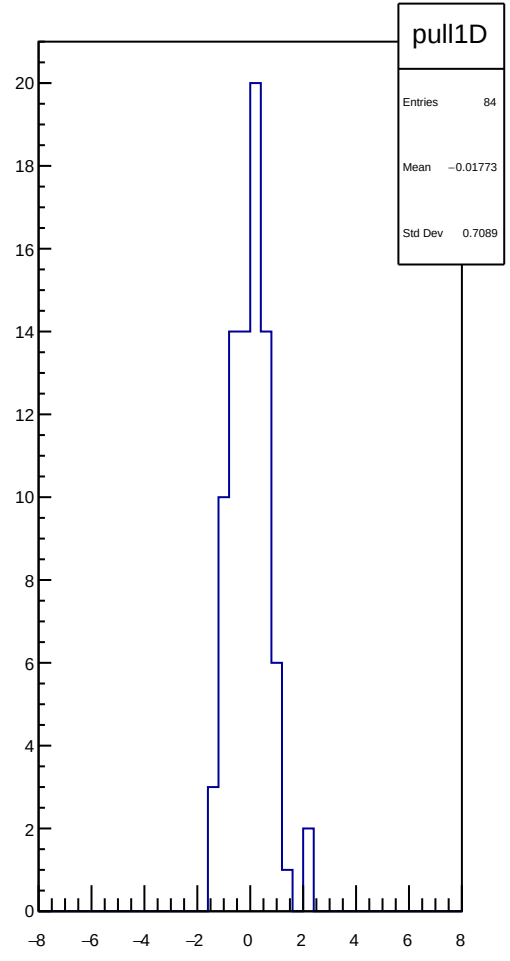

pull1D
Entries 84
Mean −0.02324
Std Dev 0.8041

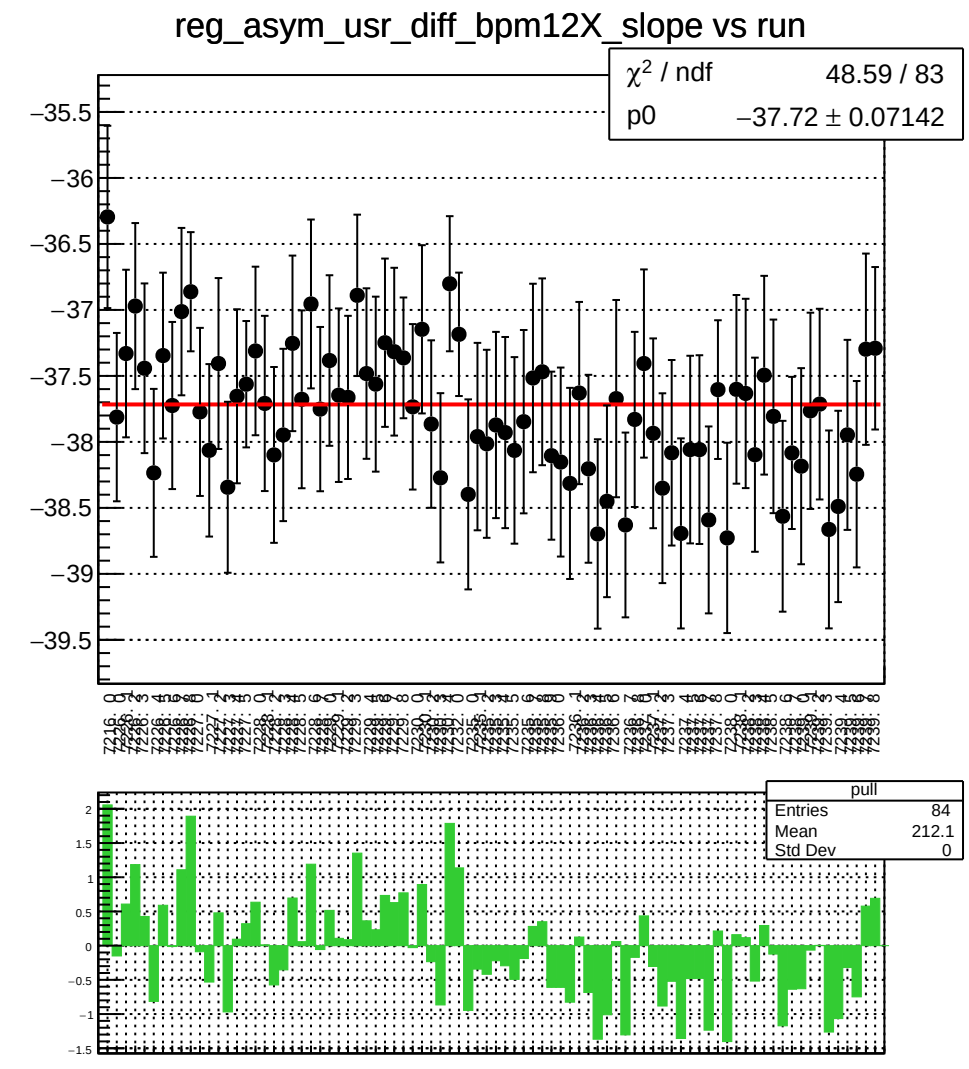

reg_asym_usr_diff_bpm4aY_slope vs run
χ^2 / ndf 41.58 / 83
p0 5.399 ± 1.541
pull
Entries 84
Mean 241.9
Std Dev 0

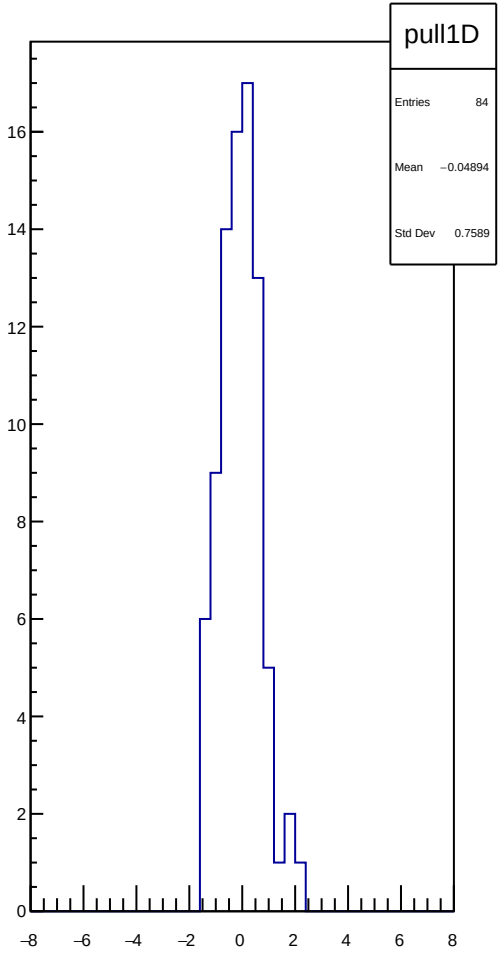

pull1D
Entries 84
Mean 0.0176
Std Dev 0.7033

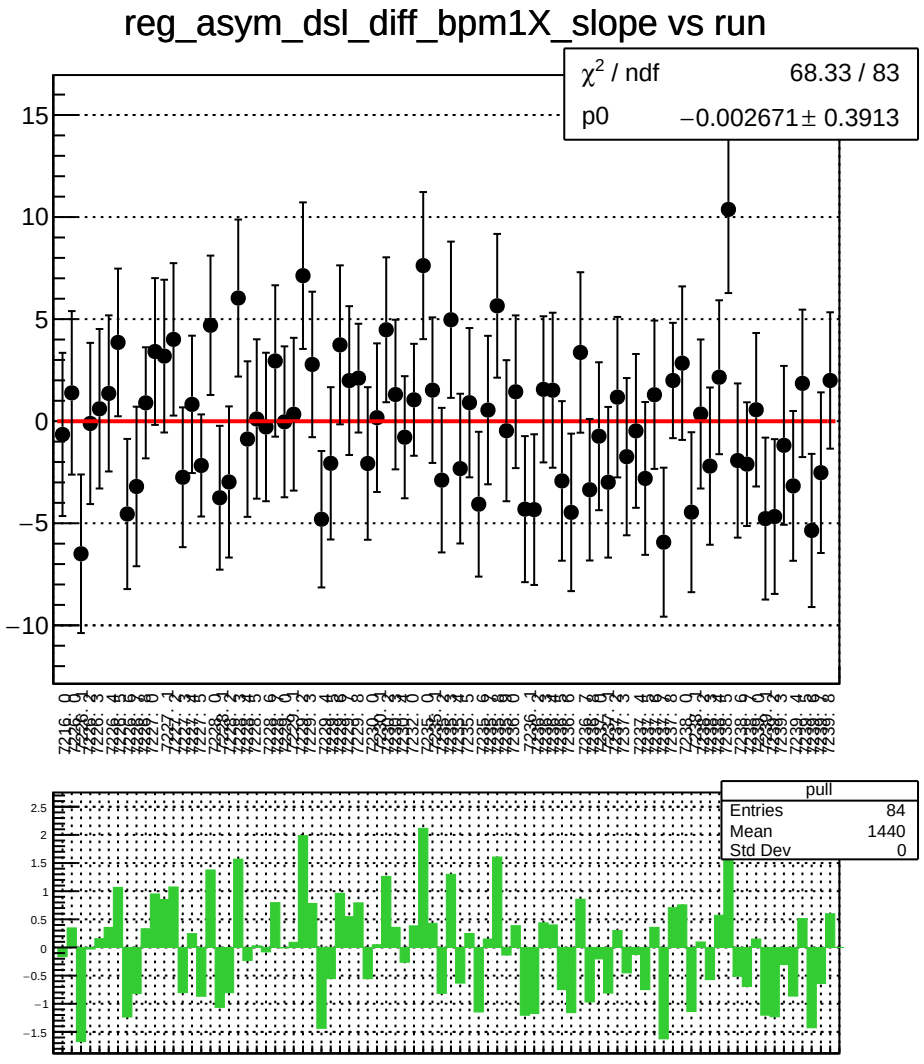

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 58.23 / 83
p0 132.7 ± 2.087
pull
Entries 84
Mean 337.3
Std Dev 0
pull1D
Entries 84
Mean 0.02914
Std Dev 0.8321

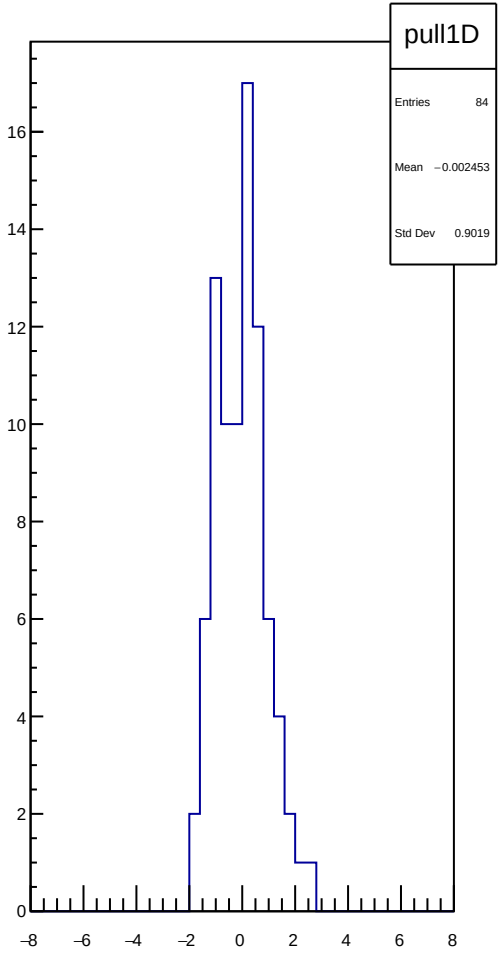

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 42.24 / 83
p0 11.7 ± 1.691
pull
Entries 84
Mean 201.7
Std Dev 0

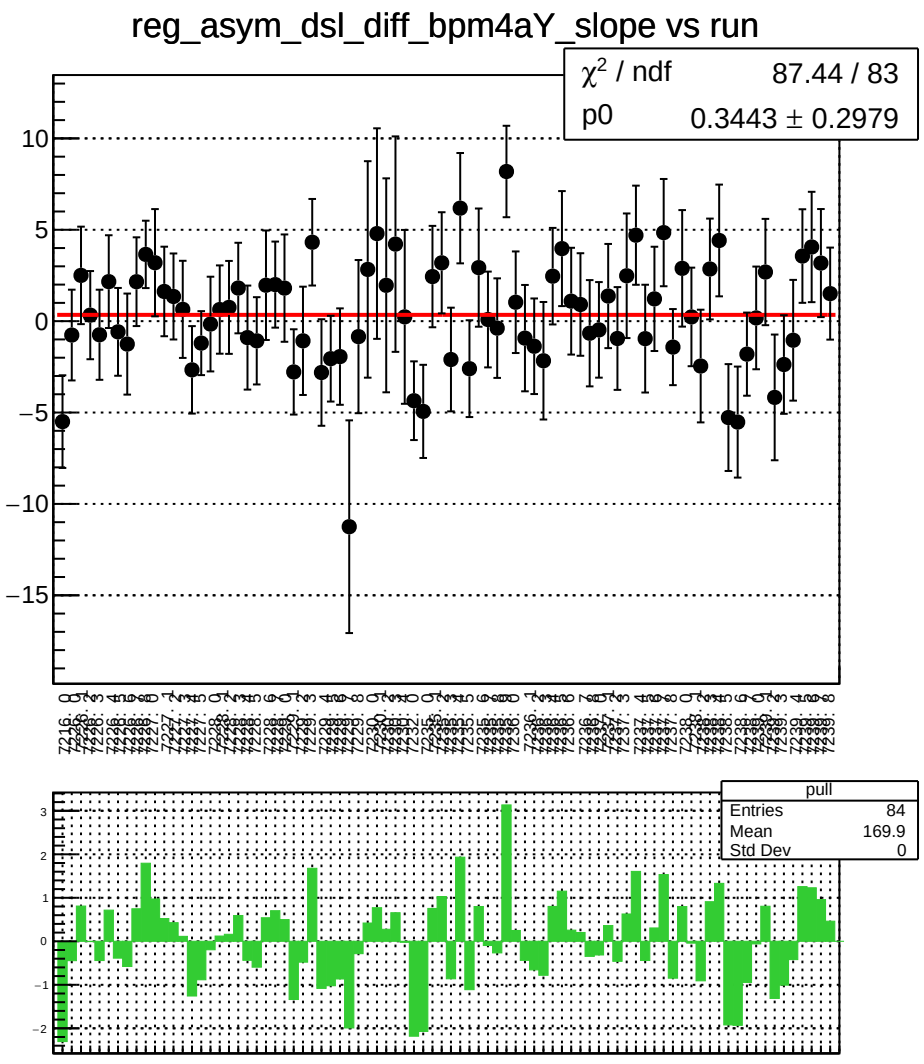

pull1D
Entries 84
Mean −0.01773
Std Dev 0.7089

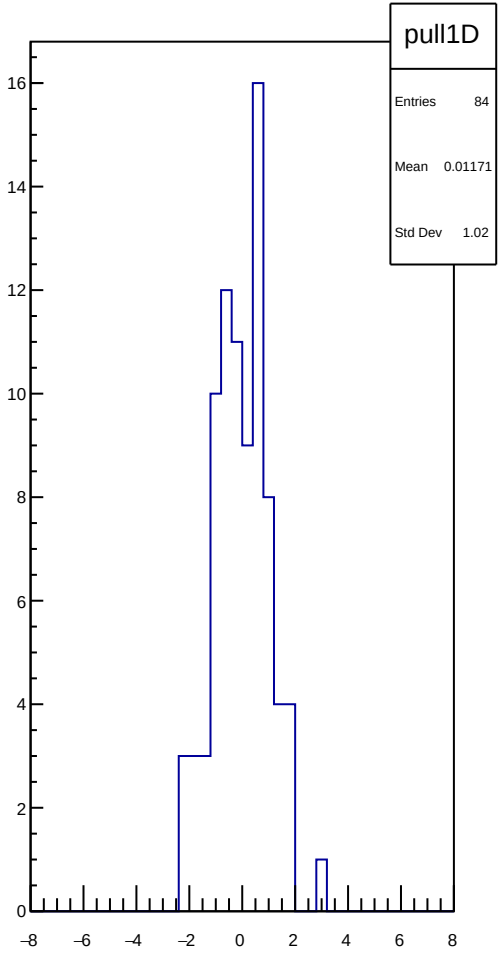

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 48.59 / 83
p0 −37.72 ± 0.07142
−35.5
−36
−36.5
−37
−37.5
−38
−38.5
−39
−39.5
pull
Entries 84
Mean 212.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

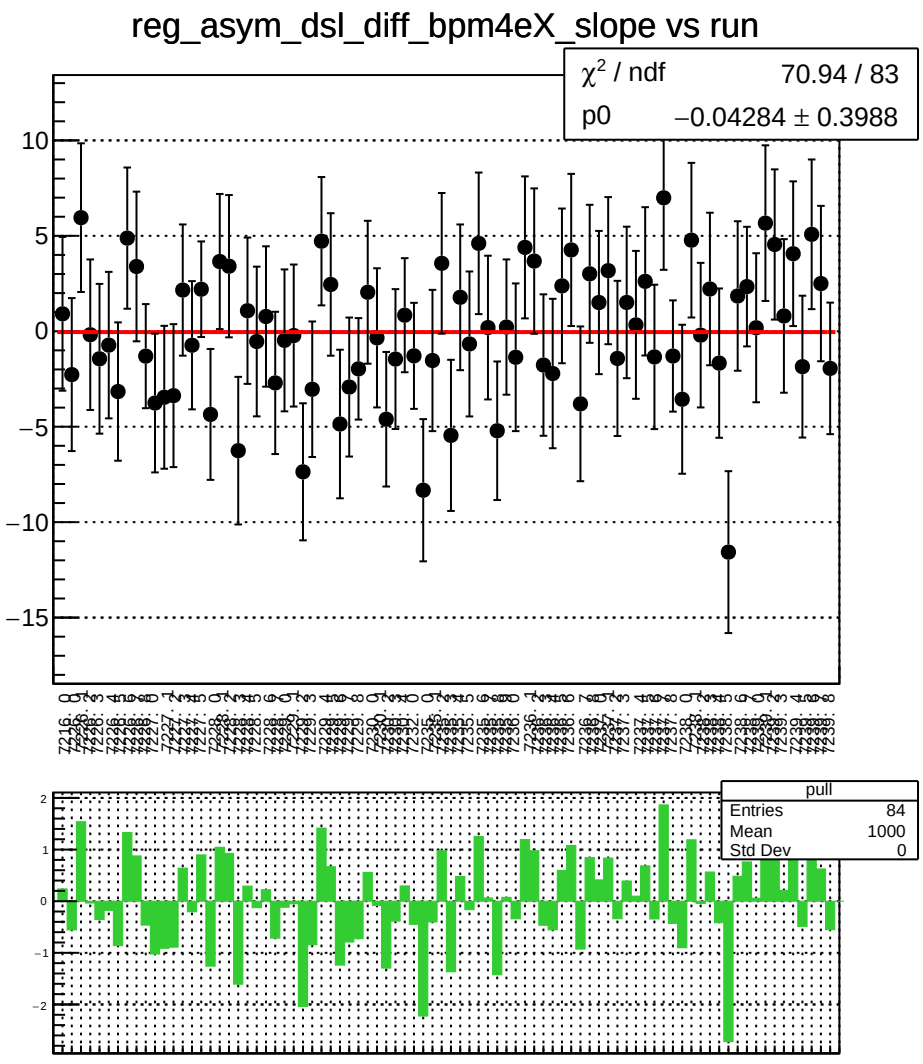

pull1D
Entries 84
Mean −0.04894
Std Dev 0.7589
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

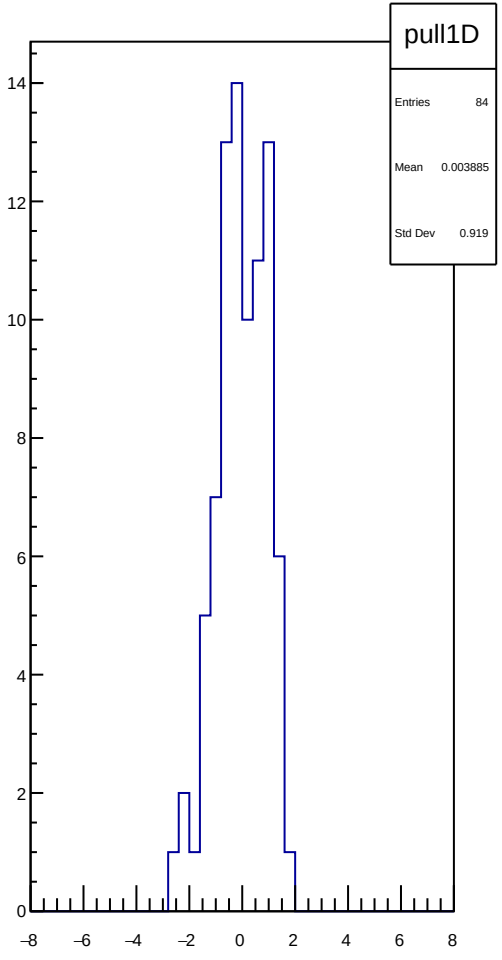

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 68.33 / 83
p0 −0.002671 ± 0.3913
pull
Entries 84
Mean 1440
Std Dev 0

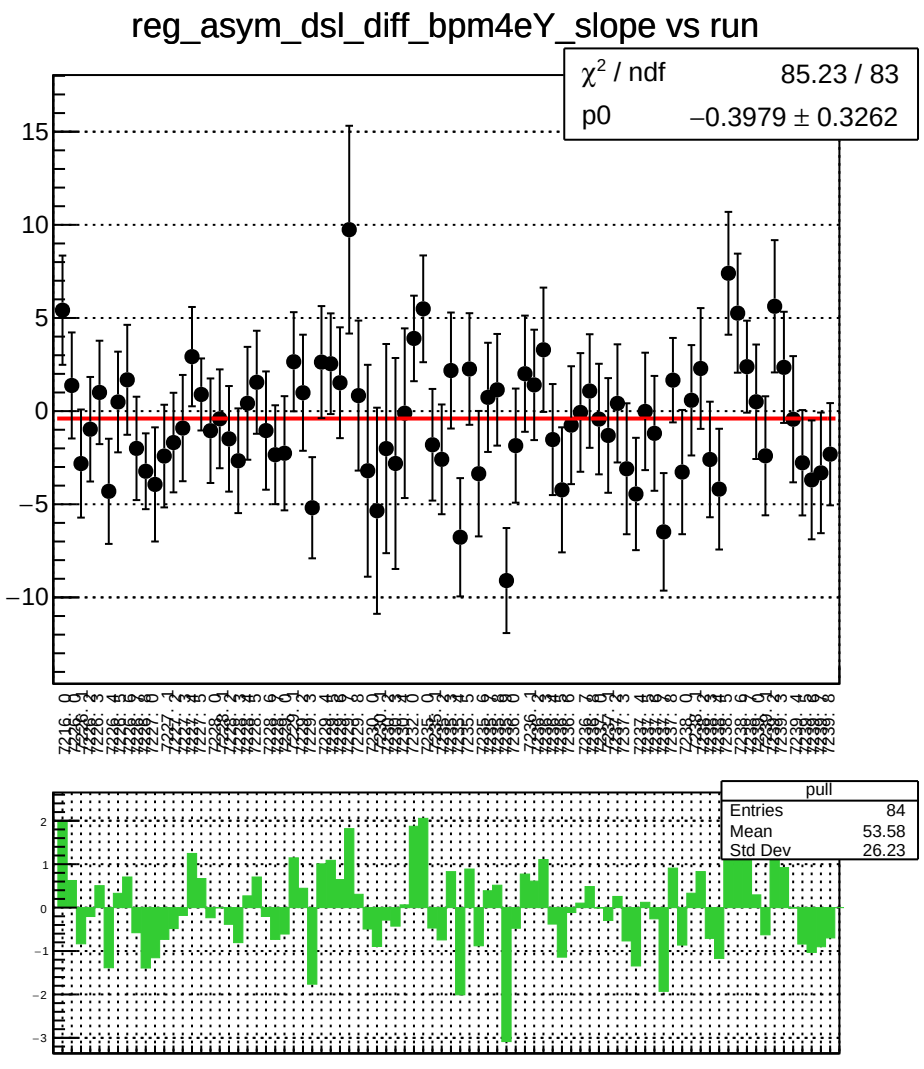

pull1D
Entries 84
Mean −0.002453
Std Dev 0.9019

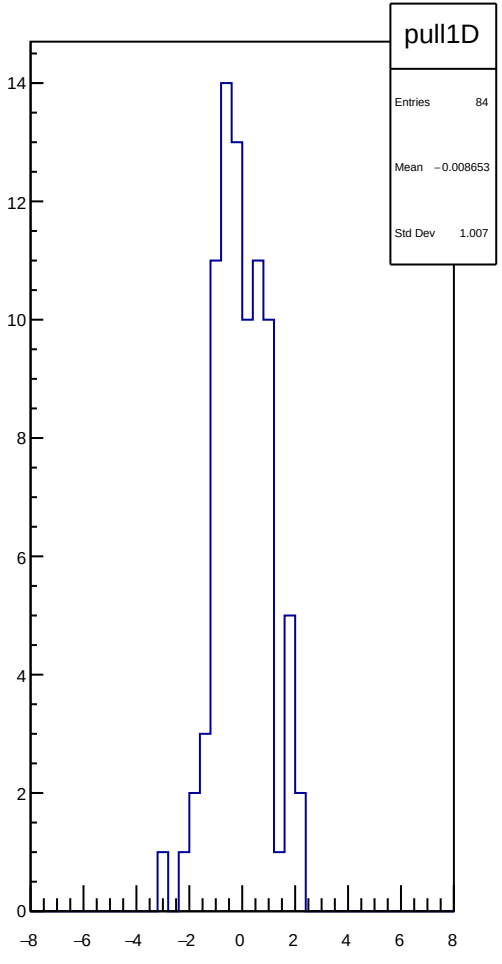

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 87.44 / 83
p0 0.3443 ± 0.2979
pull
Entries 84
Mean 169.9
Std Dev 0

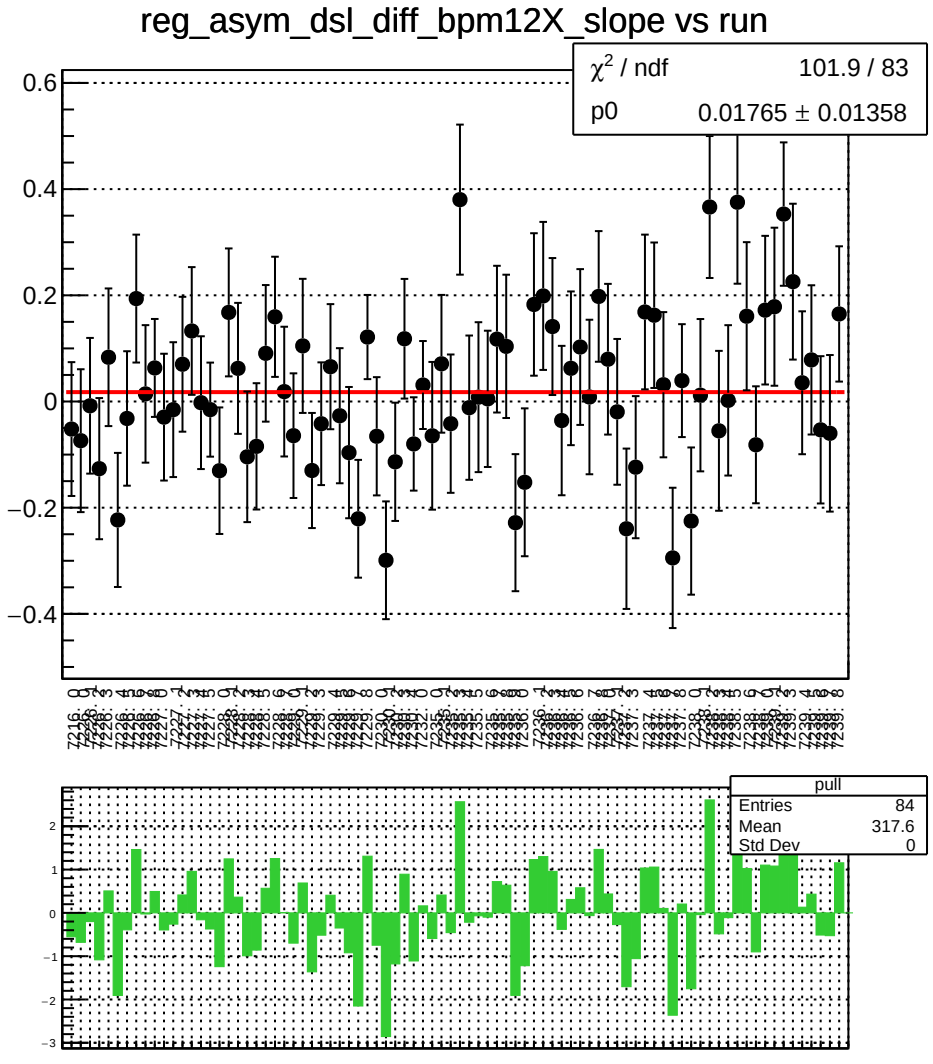

pull1D
Entries 84
Mean 0.01171
Std Dev 1.02

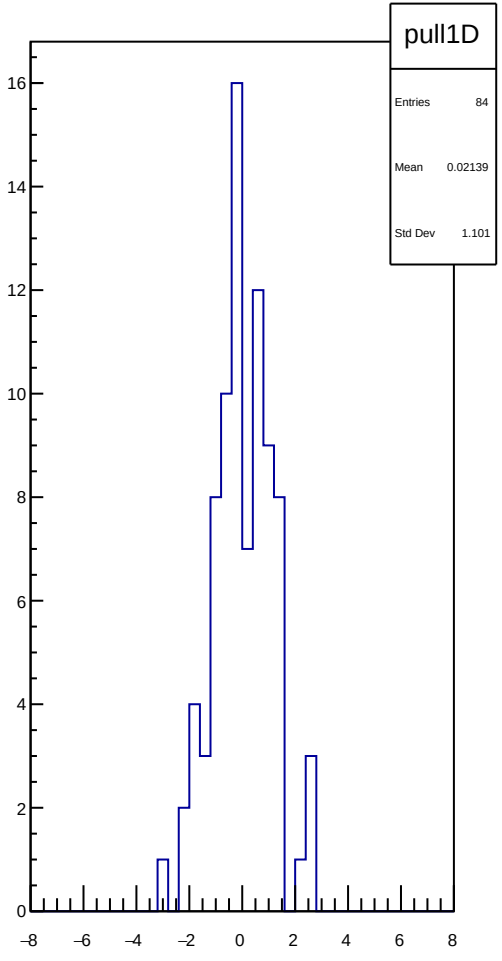

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 70.94 / 83
p0 −0.04284 ± 0.3988
pull
Entries 84
Mean 1000
Std Dev 0

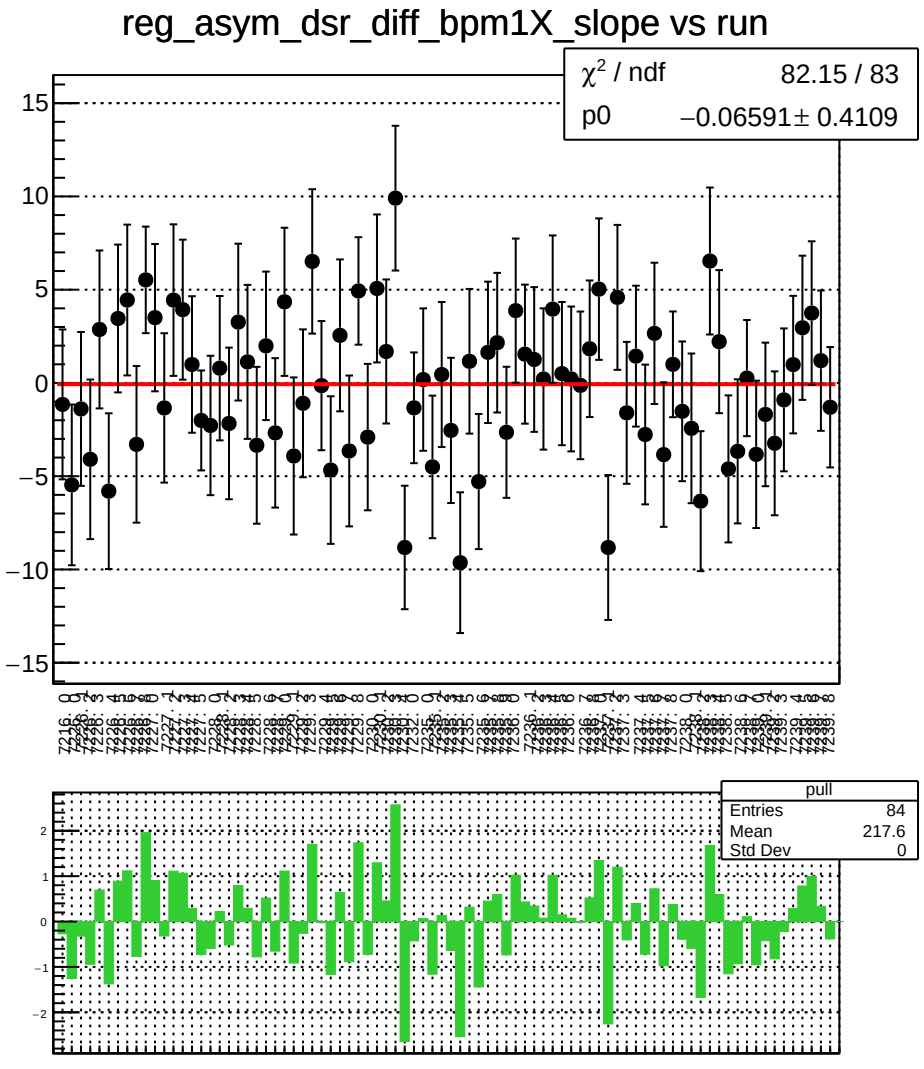

pull1D
Entries 84
Mean 0.003885
Std Dev 0.919

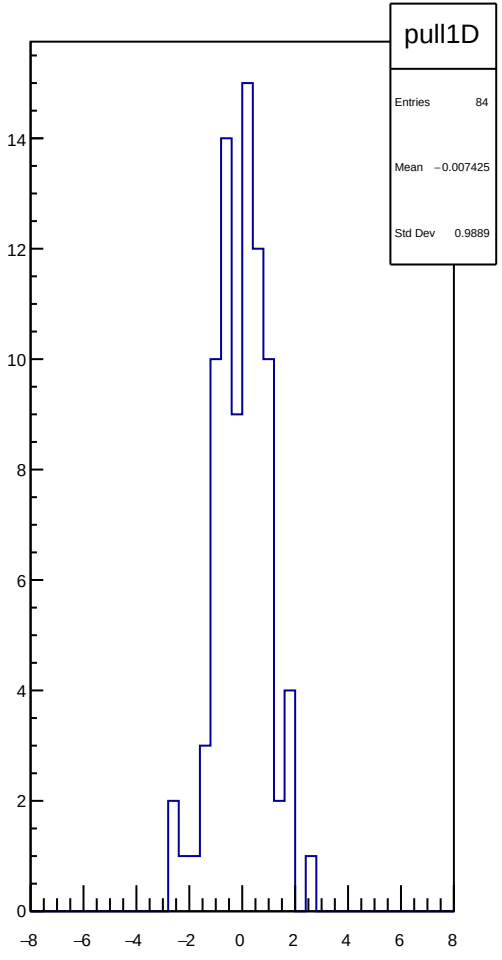

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 85.23 / 83
p0 −0.3979 ± 0.3262
pull
Entries 84
Mean 53.58
Std Dev 26.23

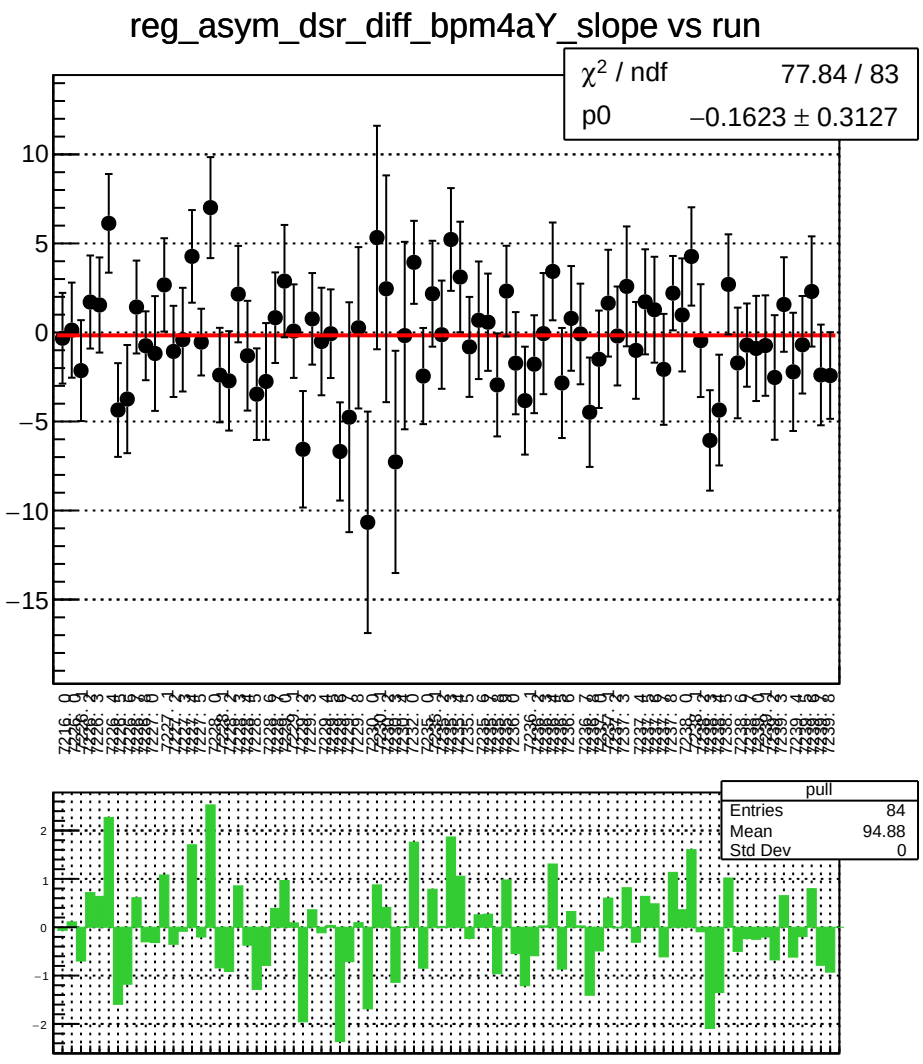

pull1D
Entries 84
Mean −0.008653
Std Dev 1.007

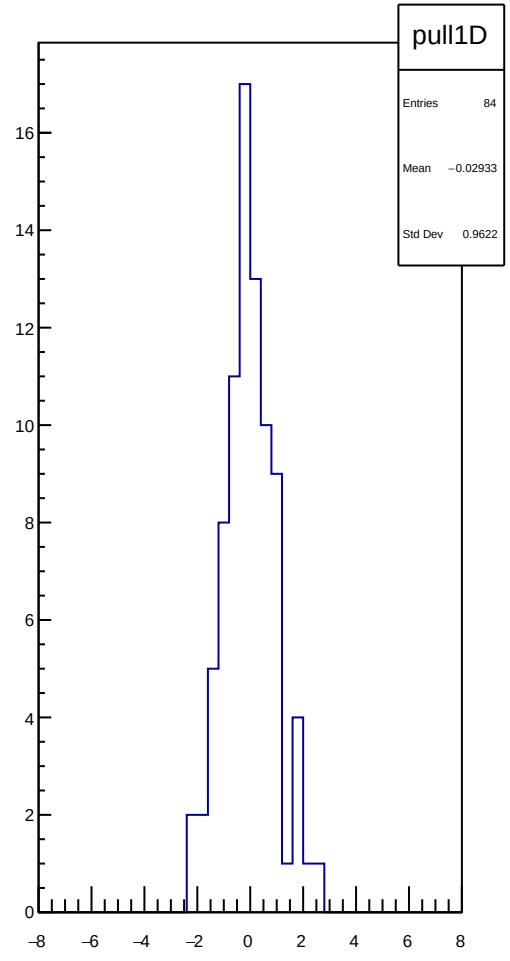

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 101.9 / 83
p0 0.01765 ± 0.01358
pull
Entries 84
Mean 317.6
Std Dev 0

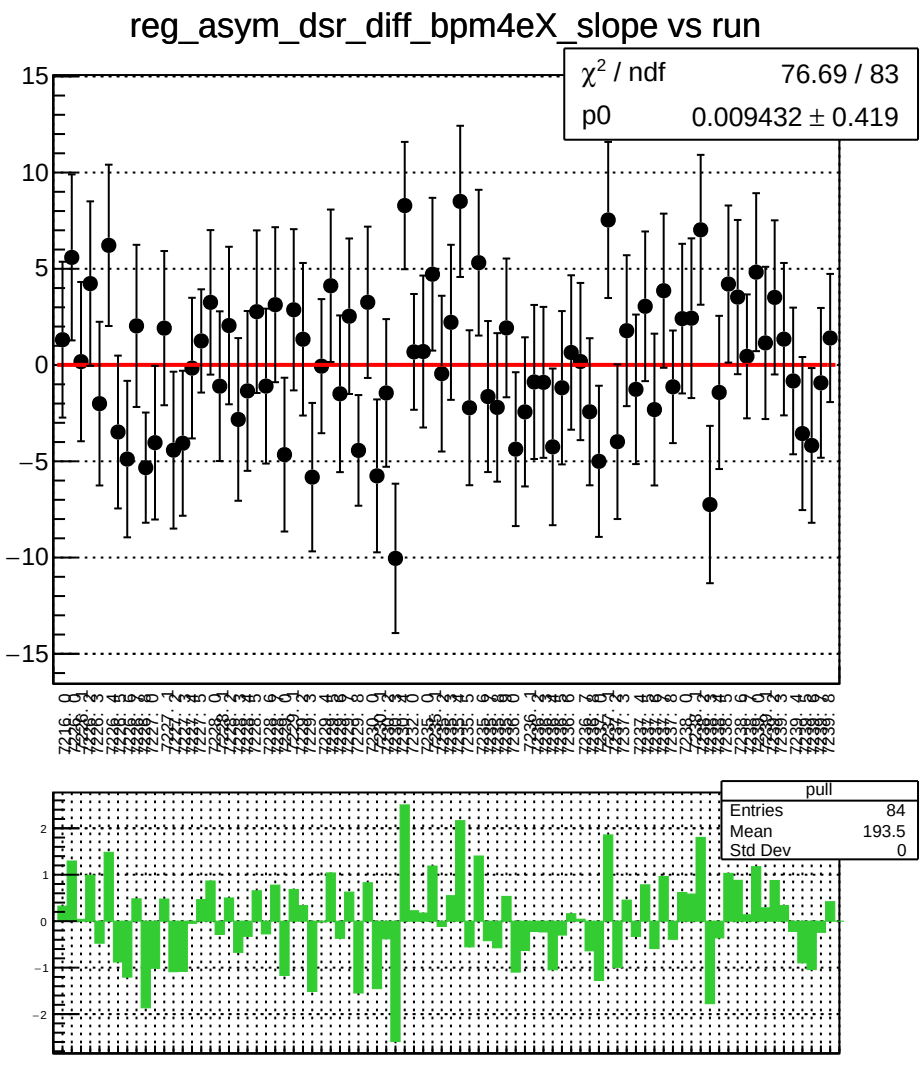

pull1D
Entries 84
Mean 0.02139
Std Dev 1.101

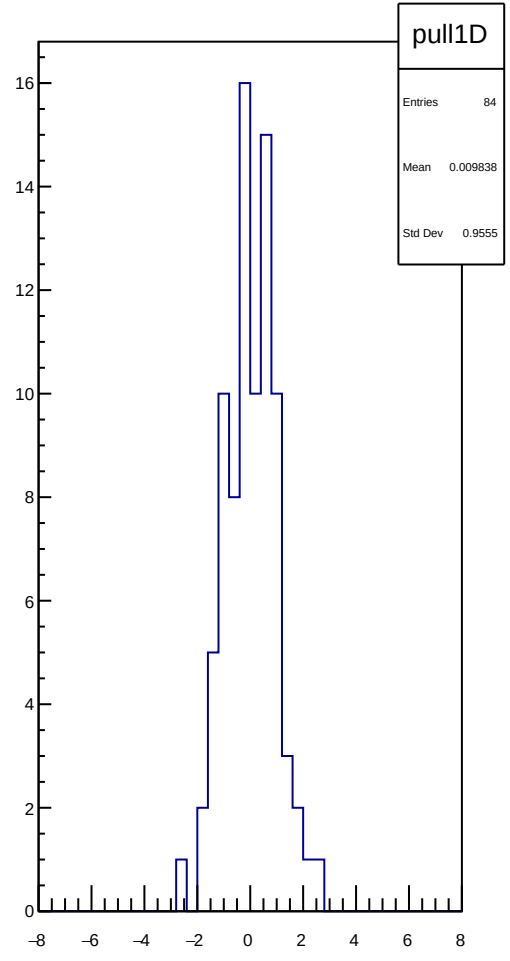

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 82.15 / 83
p0 −0.06591 ± 0.4109
pull
Entries 84
Mean 217.6
Std Dev 0

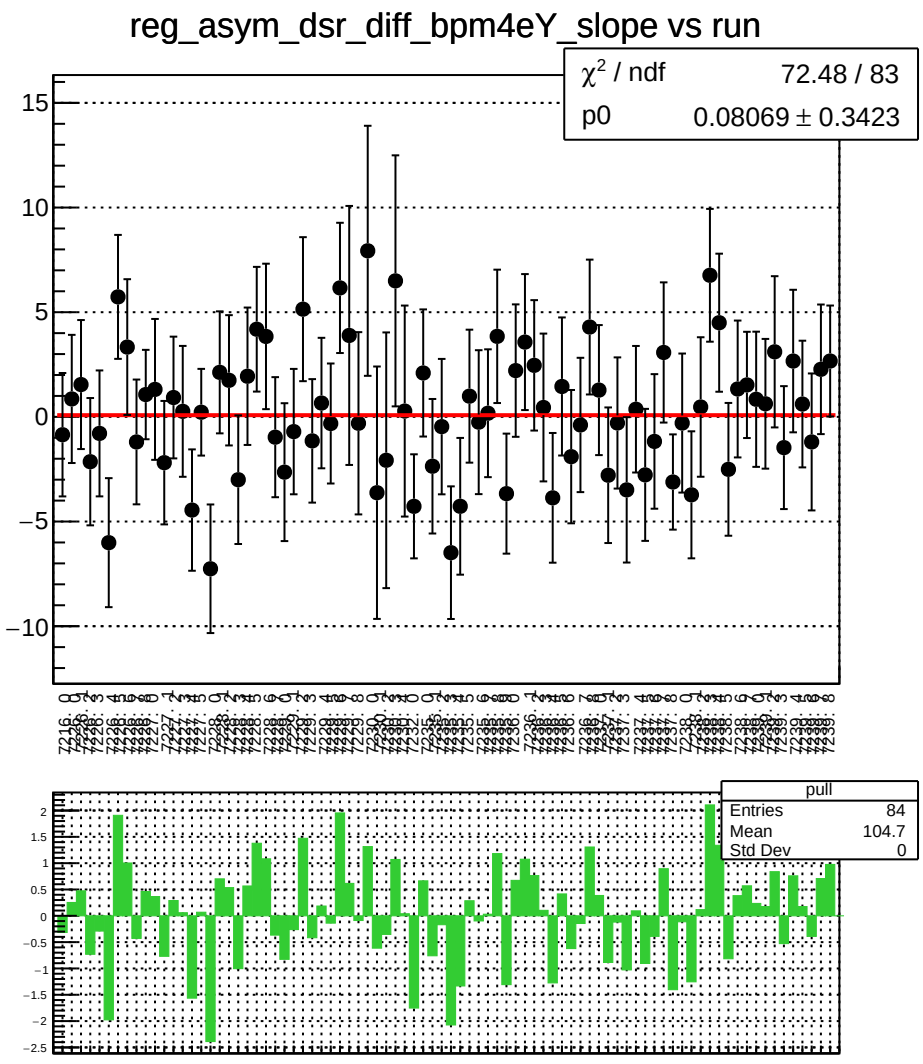

pull1D
Entries 84
Mean −0.007425
Std Dev 0.9889

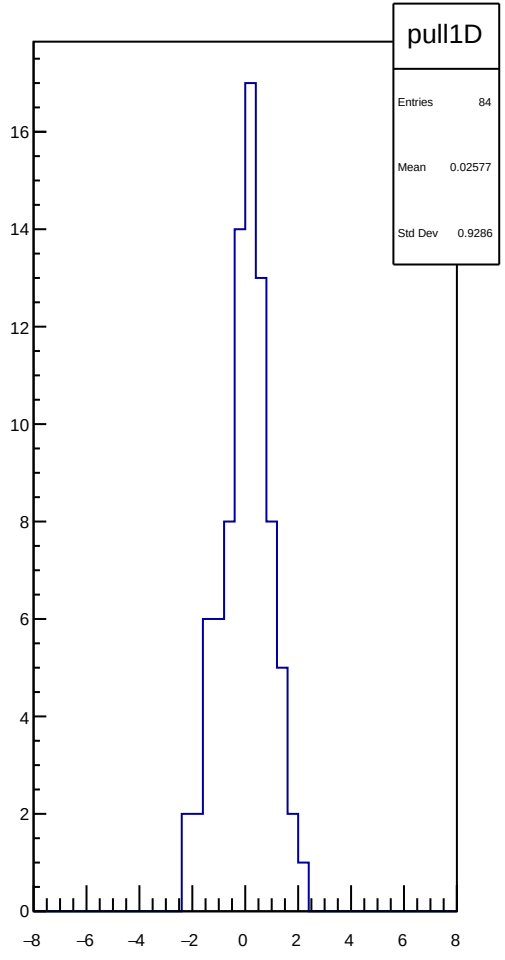

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 77.84 / 83
p0 −0.1623 ± 0.3127
pull
Entries 84
Mean 94.88
Std Dev 0

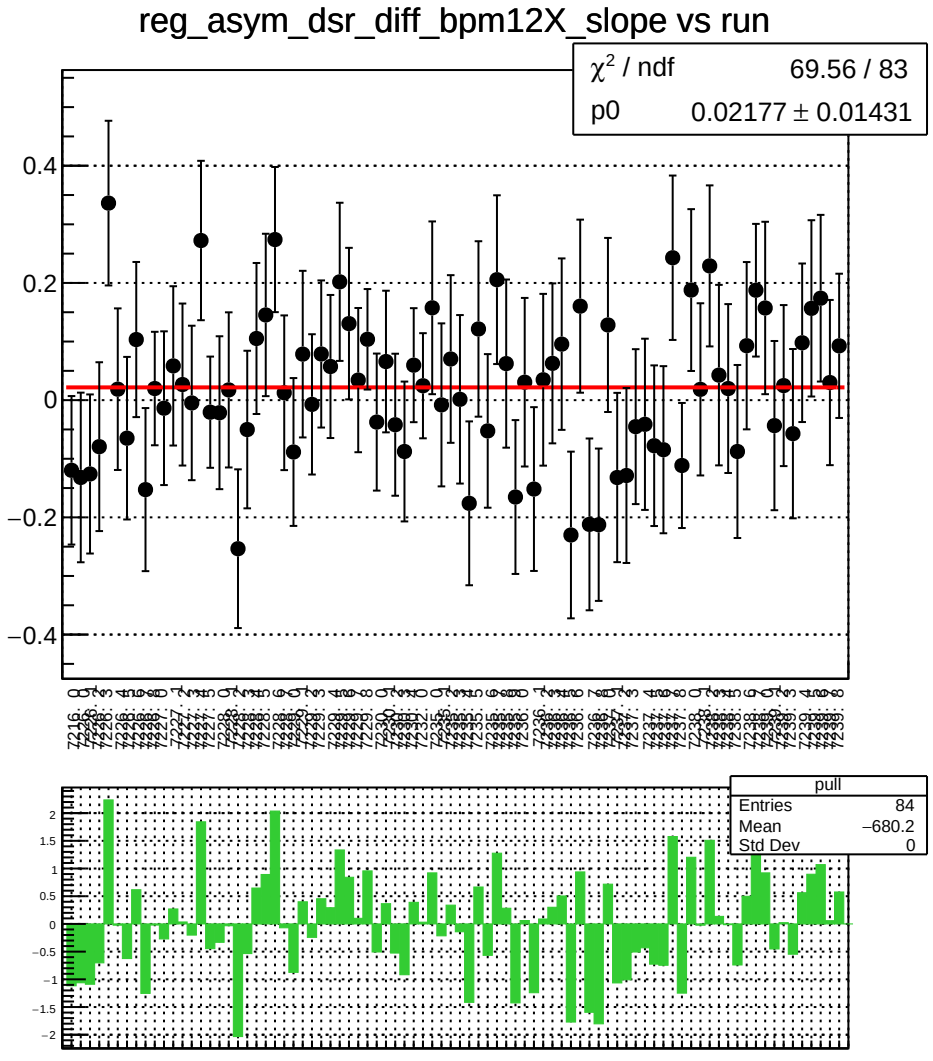

pull1D
Entries 84
Mean −0.02933
Std Dev 0.9622

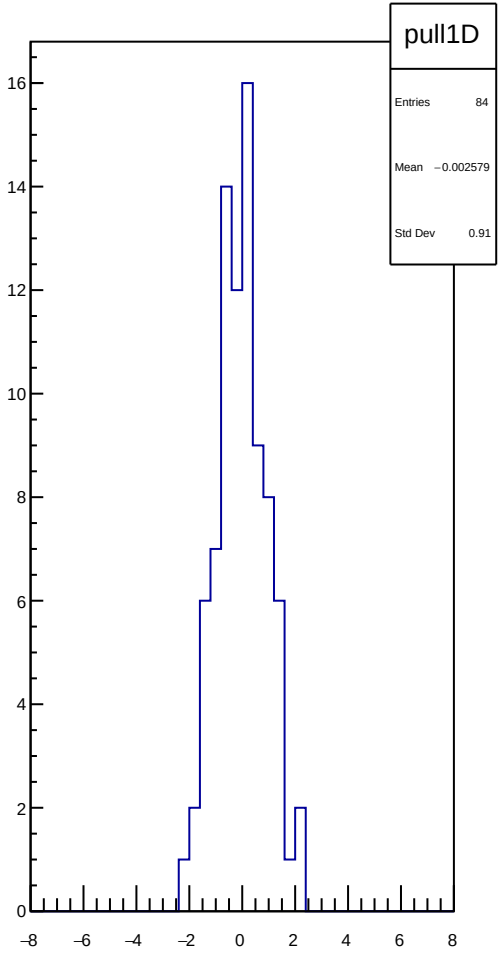

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 76.69 / 83
p0 0.009432 ± 0.419
pull
Entries 84
Mean 193.5
Std Dev 0

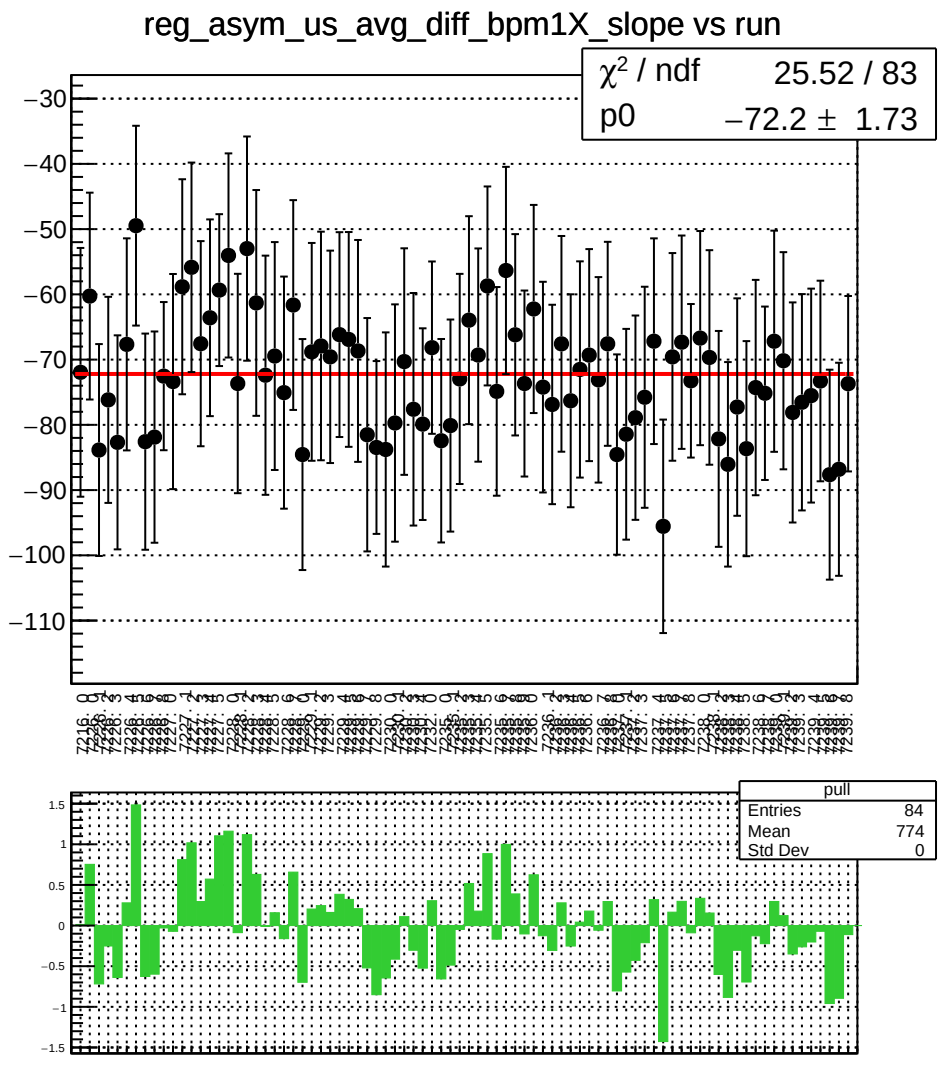

pull1D
Entries 84
Mean 0.009838
Std Dev 0.9555

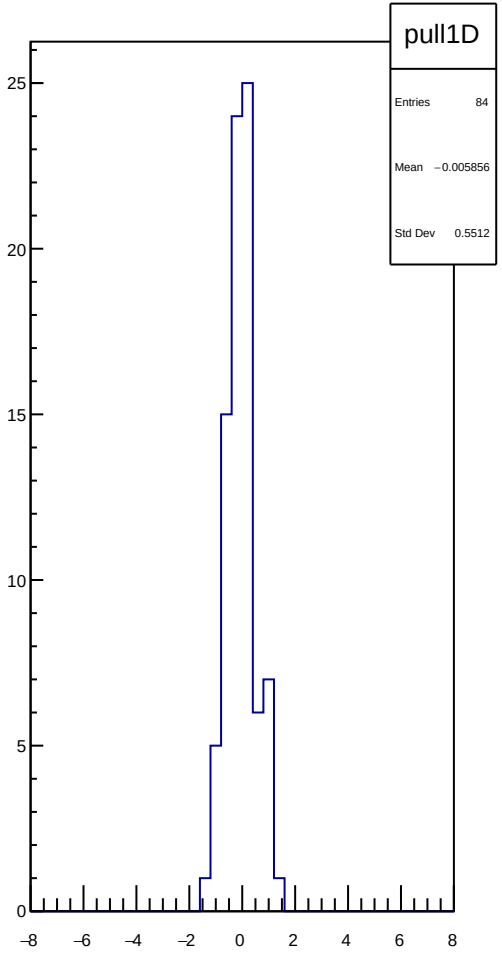

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 72.48 / 83
p0 0.08069 ± 0.3423
pull
Entries 84
Mean 104.7
Std Dev 0

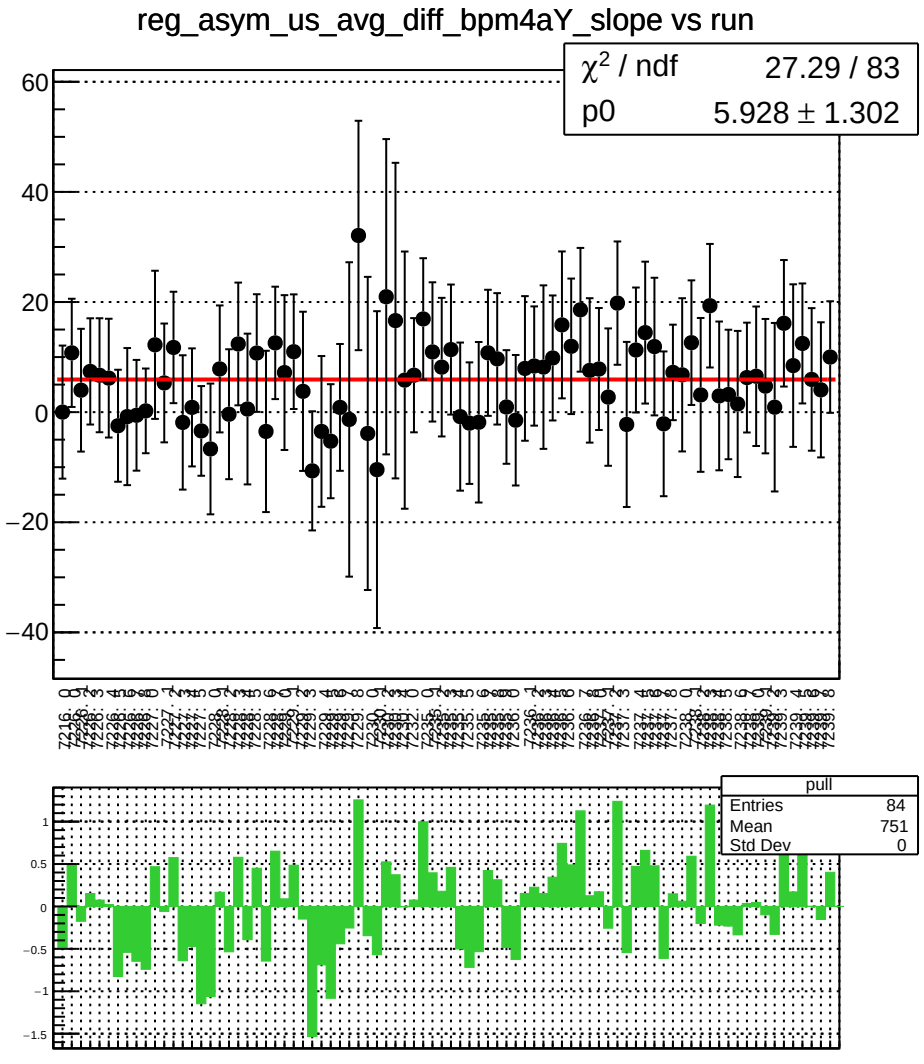

pull1D
Entries 84
Mean 0.02577
Std Dev 0.9286

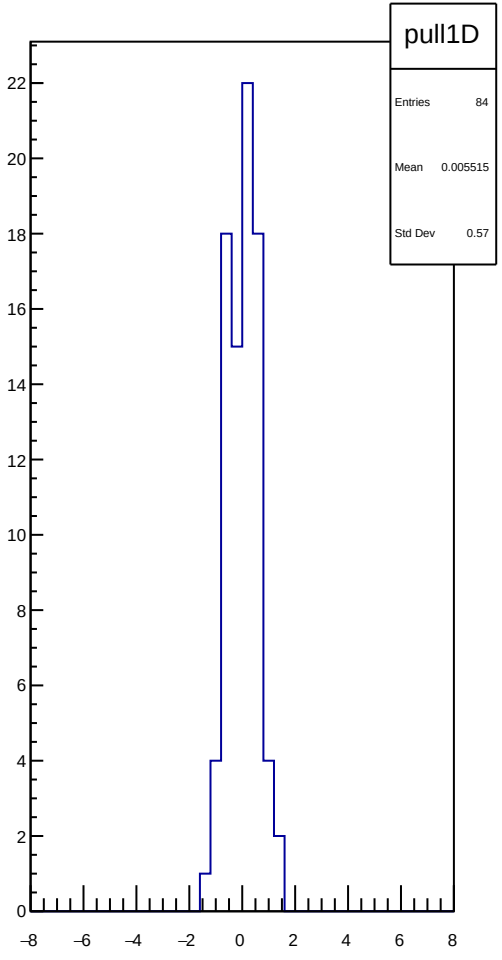

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 69.56 / 83
p0 0.02177 ± 0.01431
pull
Entries 84
Mean −680.2
Std Dev 0

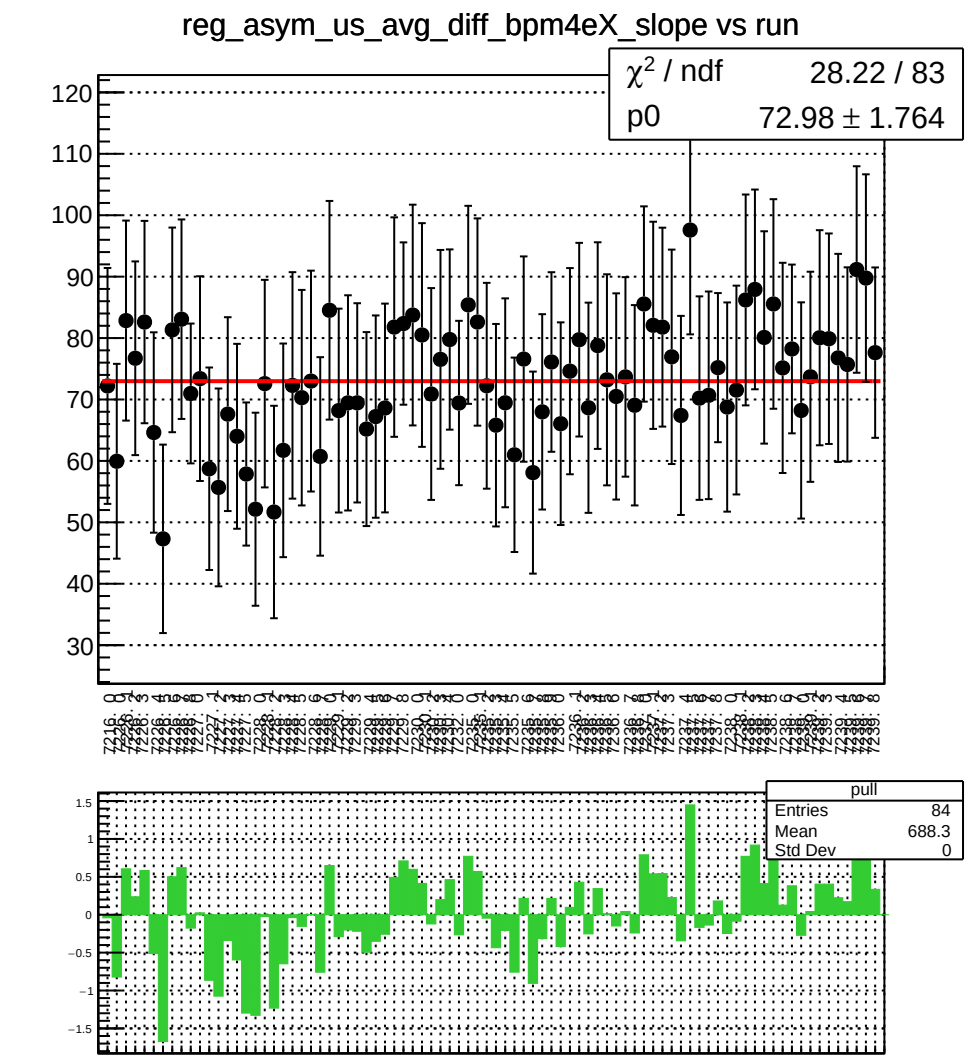

pull1D
Entries 84
Mean −0.002579
Std Dev 0.91

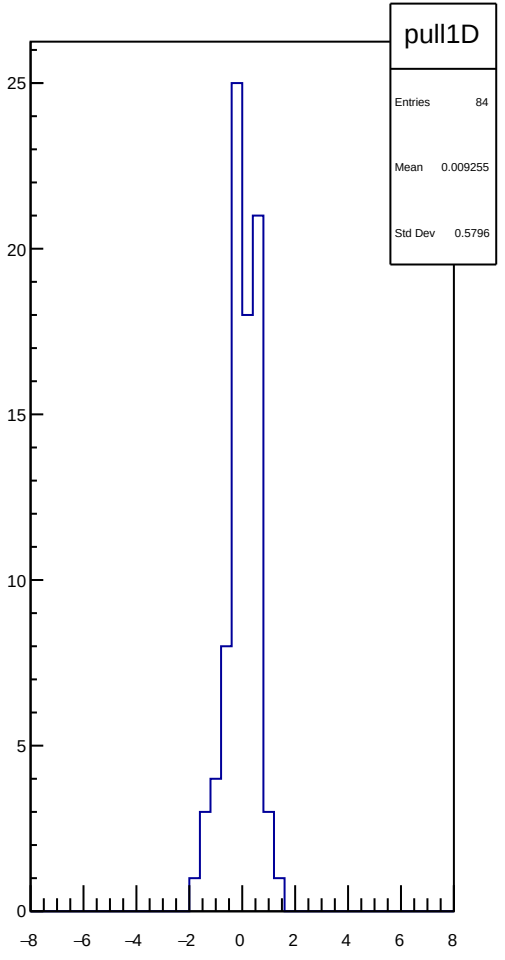

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 25.52 / 83
p0 −72.2 ± 1.73
pull
Entries 84
Mean 774
Std Dev 0

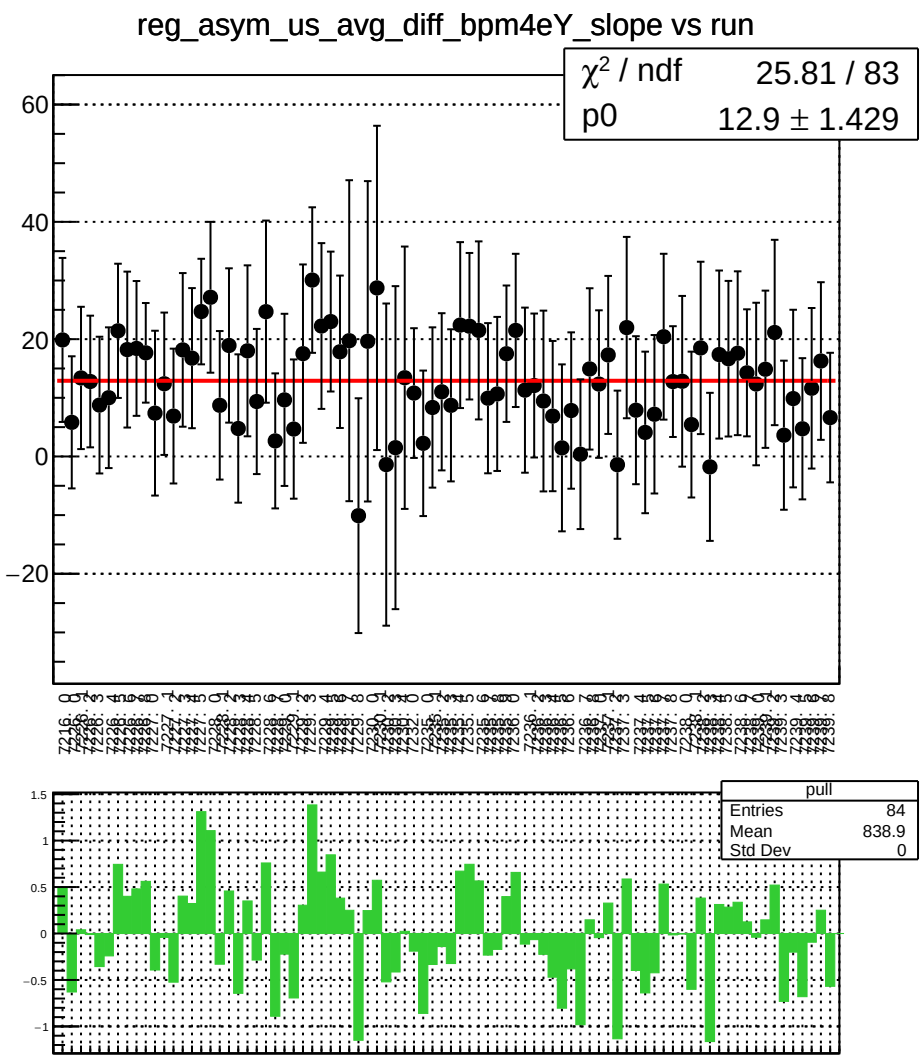

pull1D
Entries 84
Mean −0.005856
Std Dev 0.5512

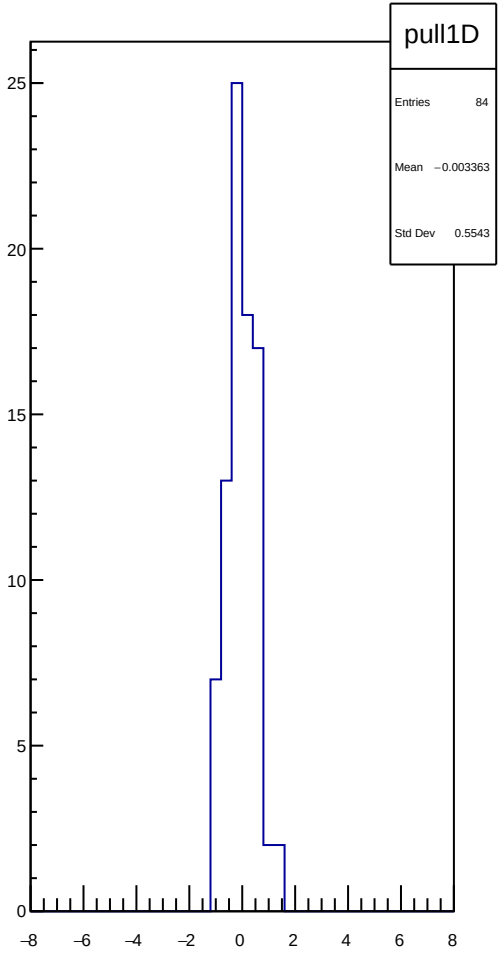

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 27.29 / 83
p0 5.928 ± 1.302
pull
Entries 84
Mean 751
Std Dev 0

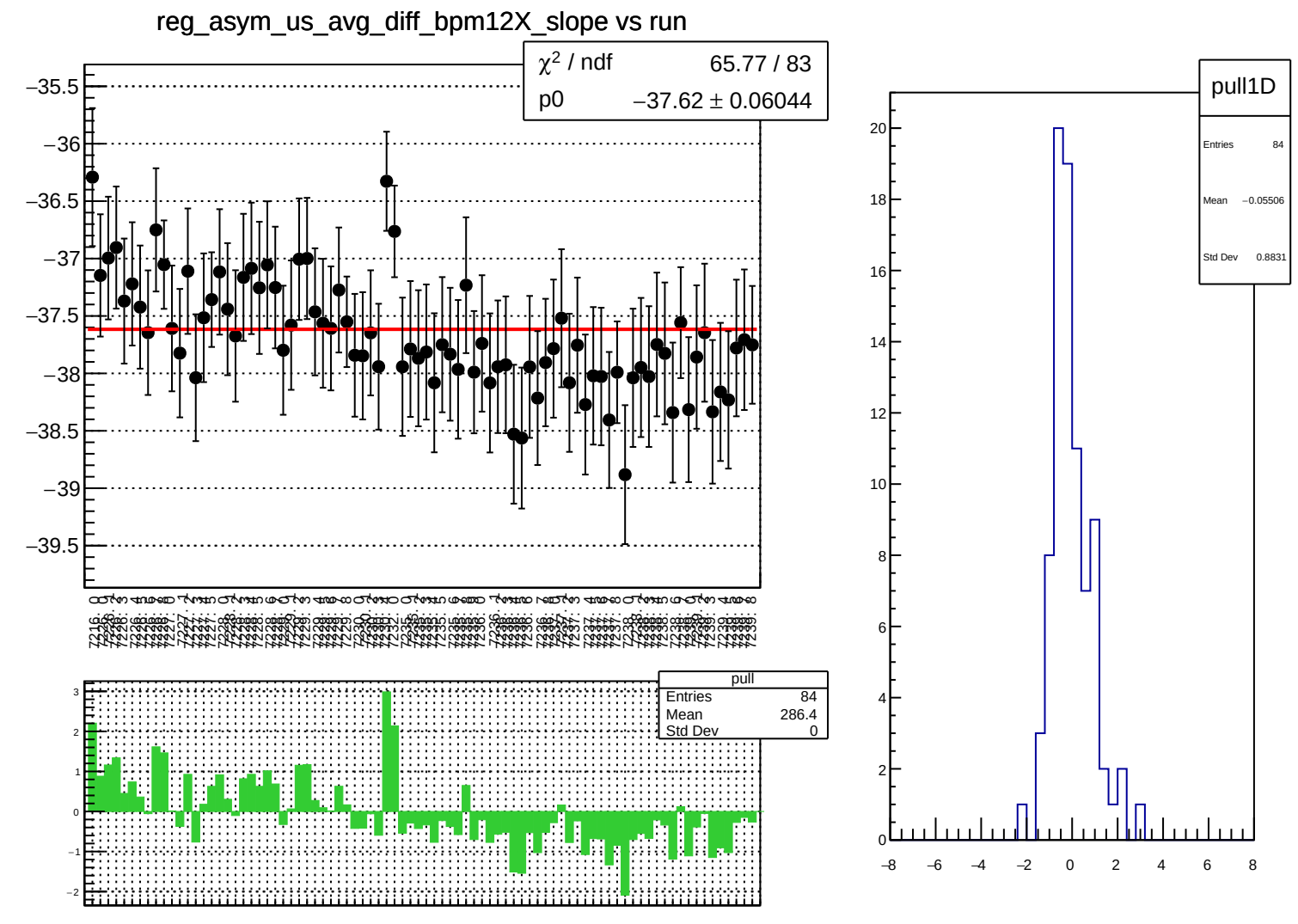

pull1D
Entries 84
Mean 0.005515
Std Dev 0.57

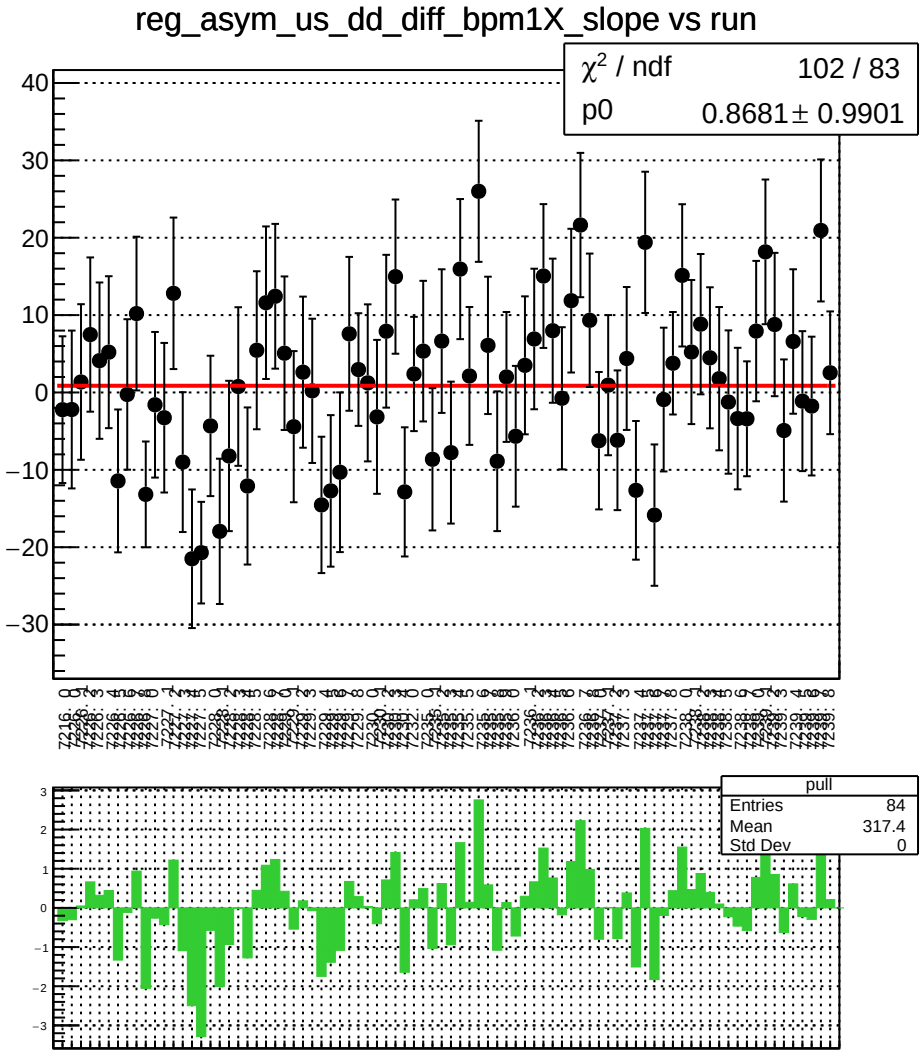

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 28.22 / 83
p0 72.98 ± 1.764
pull
Entries 84
Mean 688.3
Std Dev 0

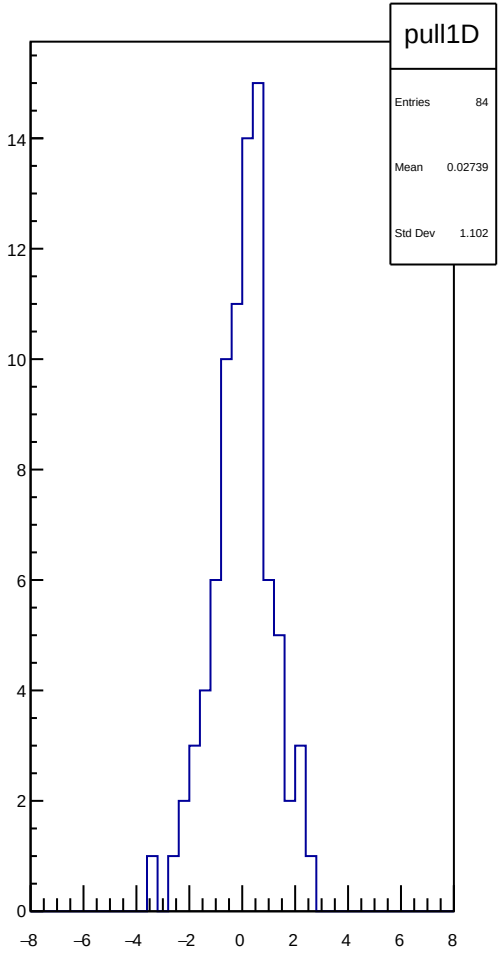

pull1D
Entries 84
Mean 0.009255
Std Dev 0.5796

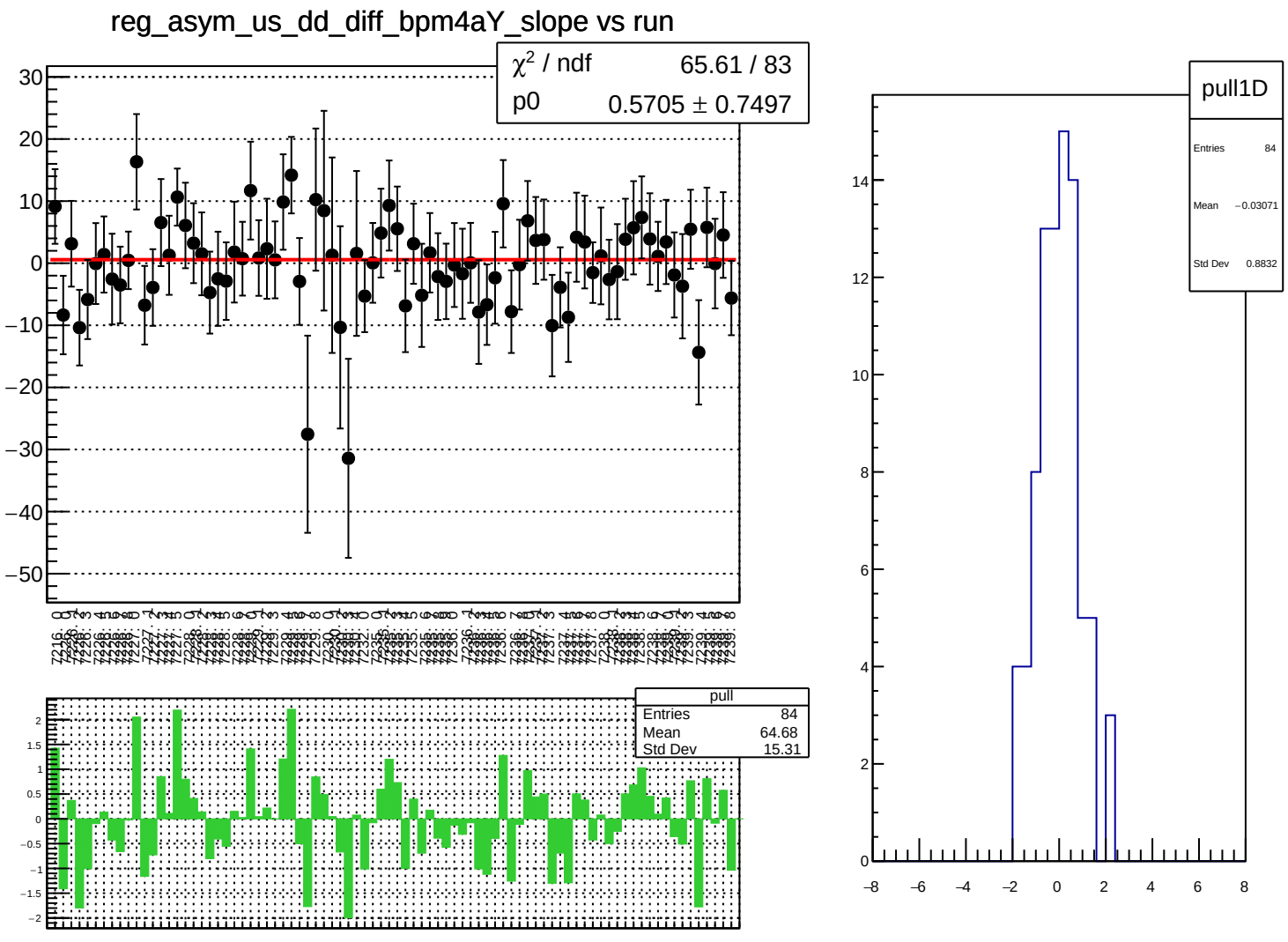

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 25.81 / 83
p0 12.9 ± 1.429
pull
Entries 84
Mean 838.9
Std Dev 0

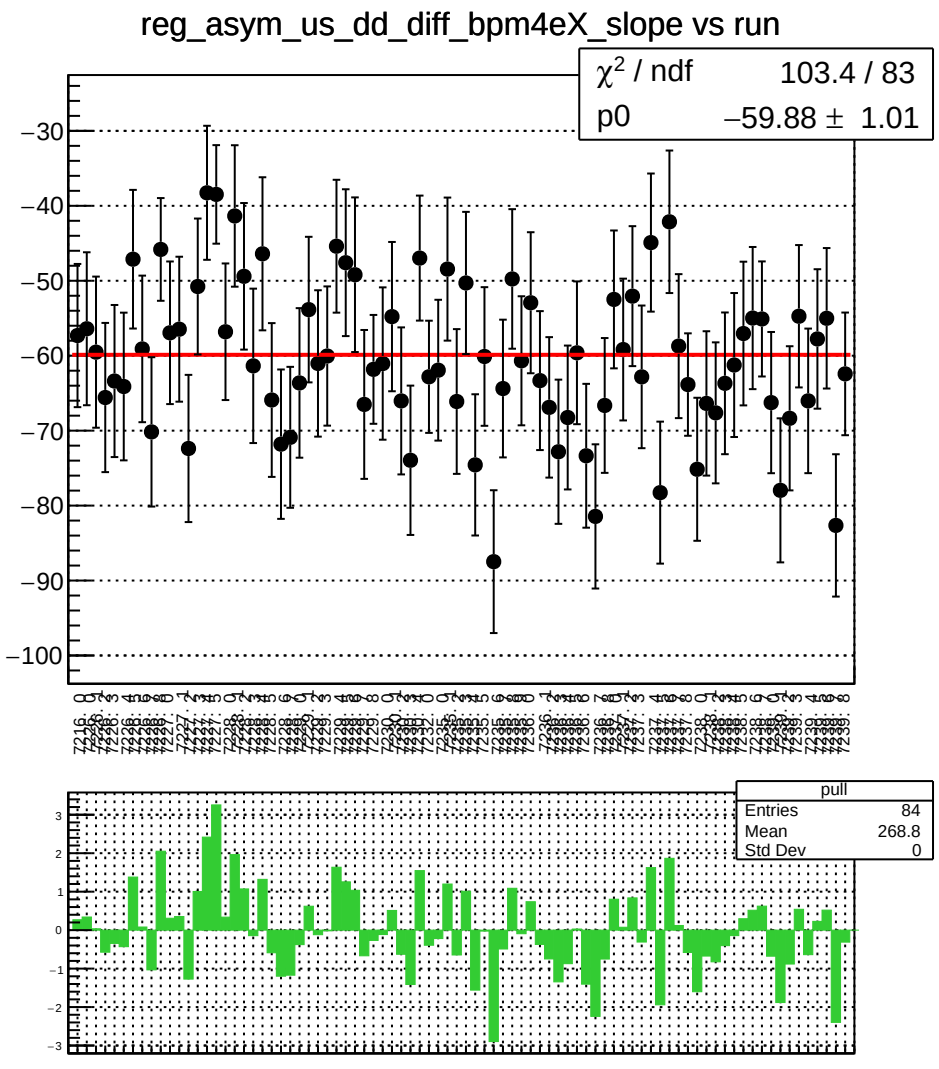

pull1D
Entries 84
Mean −0.003363
Std Dev 0.5543

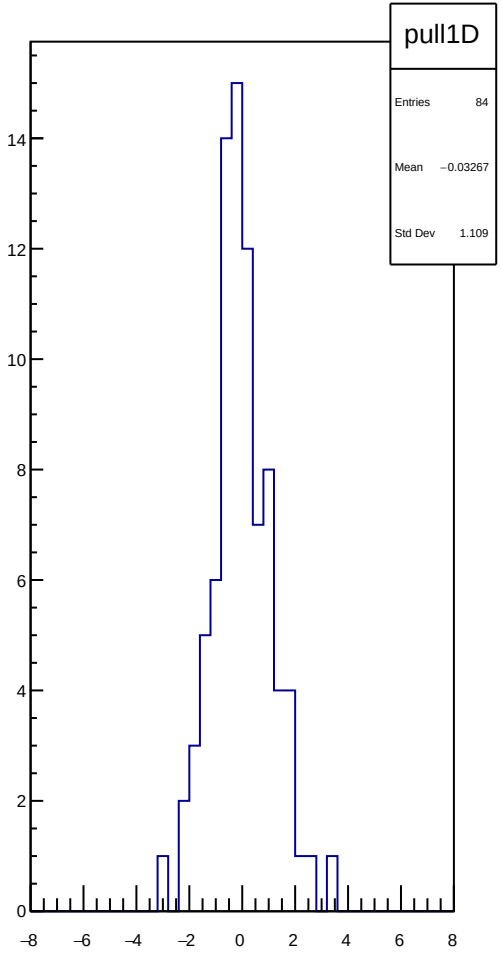

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 65.77 / 83
p0 −37.62 ± 0.06044
−35.5
−36
−36.5
−37
−37.5
−38
−38.5
−39
−39.5
pull
Entries 84
Mean 286.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.05506
Std Dev 0.8831
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

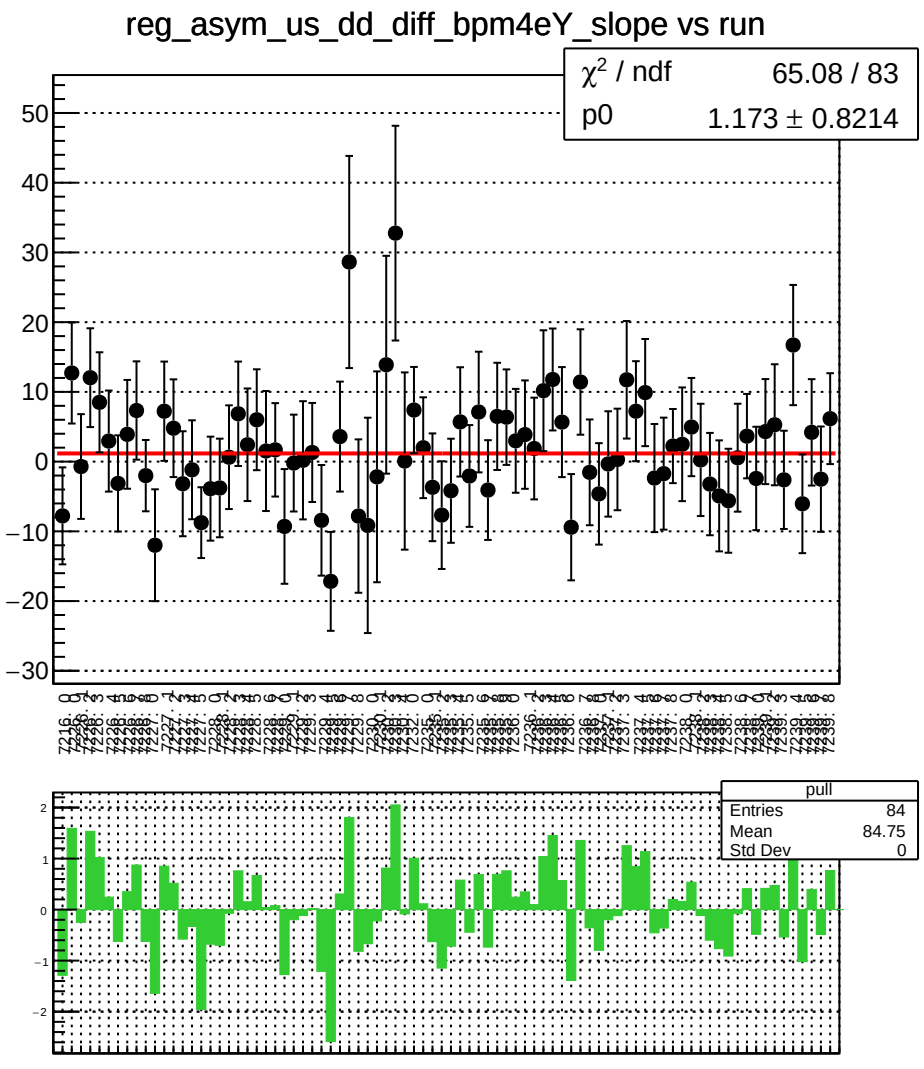

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 102 / 83
p0 0.8681 ± 0.9901
pull
Entries 84
Mean 317.4
Std Dev 0

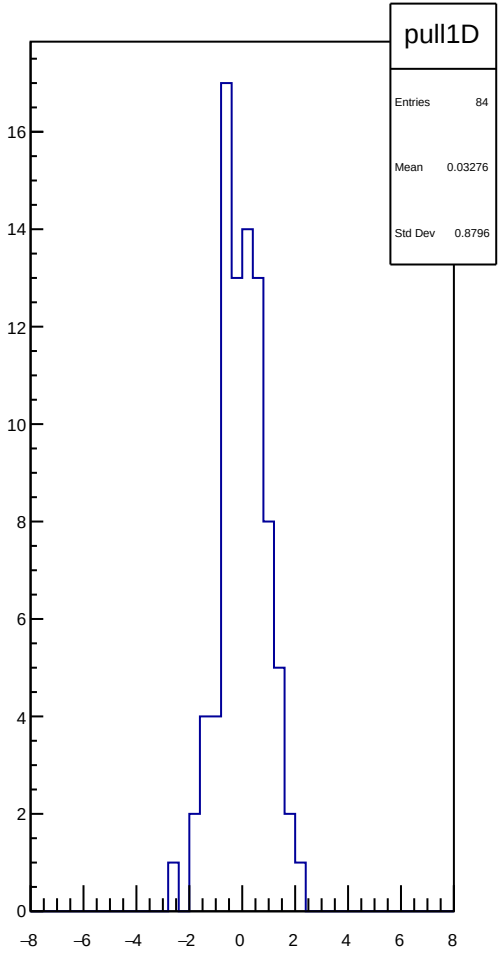

pull1D
Entries 84
Mean 0.02739
Std Dev 1.102

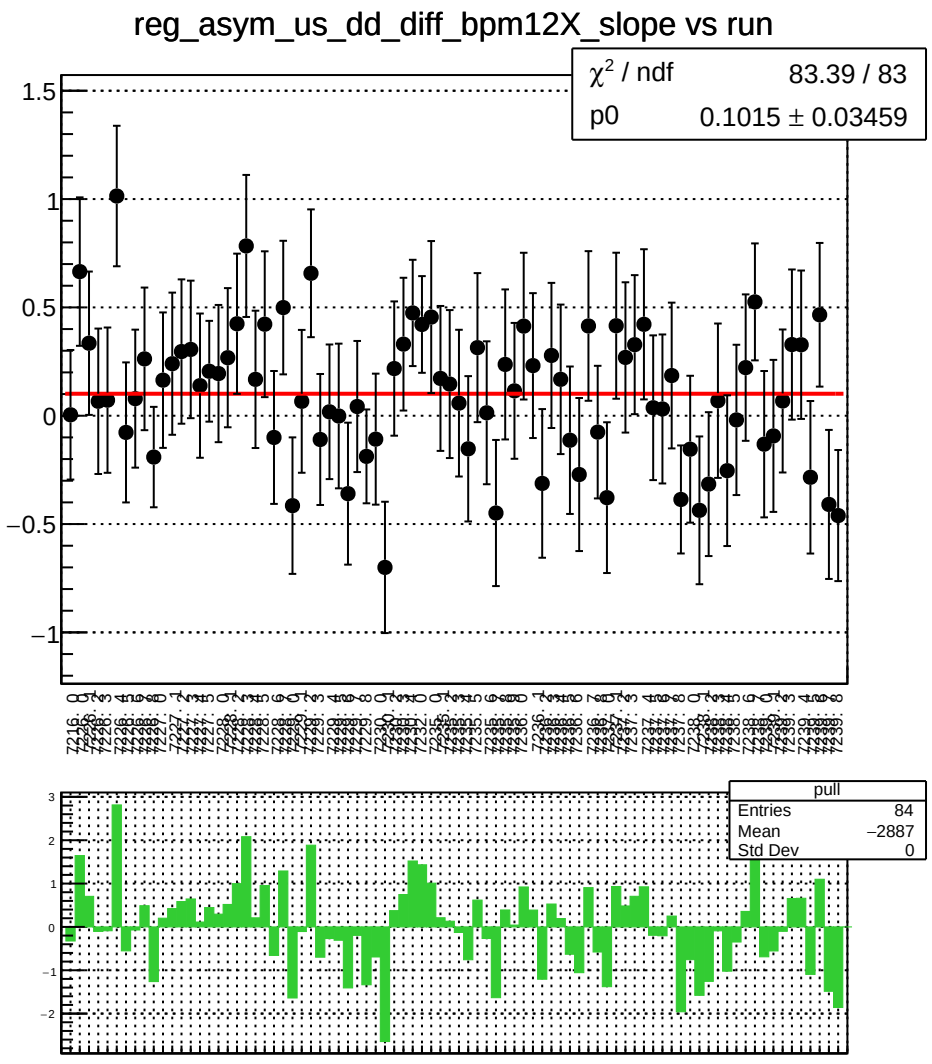

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 65.61 / 83
p0 0.5705 ± 0.7497
pull
Entries 84
Mean 64.68
Std Dev 15.31
pull1D
Entries 84
Mean −0.03071
Std Dev 0.8832

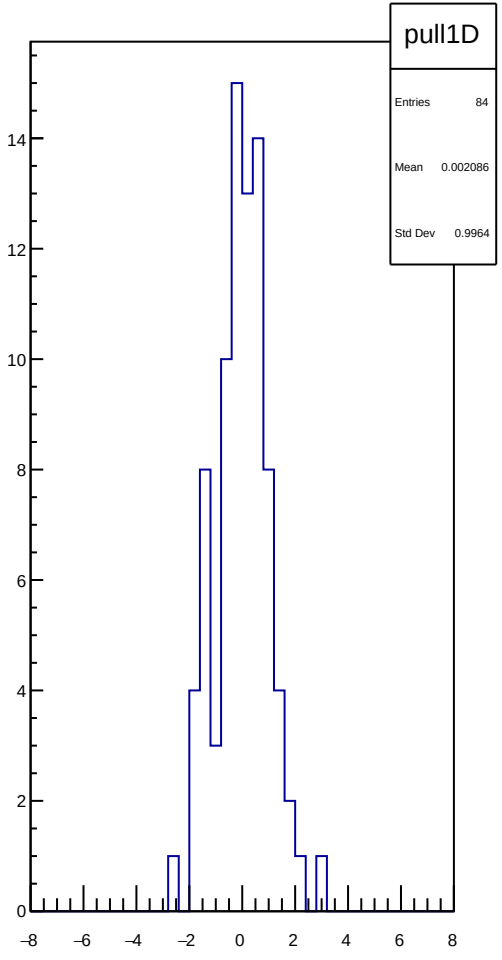

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 103.4 / 83
p0 −59.88 ± 1.01
pull
Entries 84
Mean 268.8
Std Dev 0

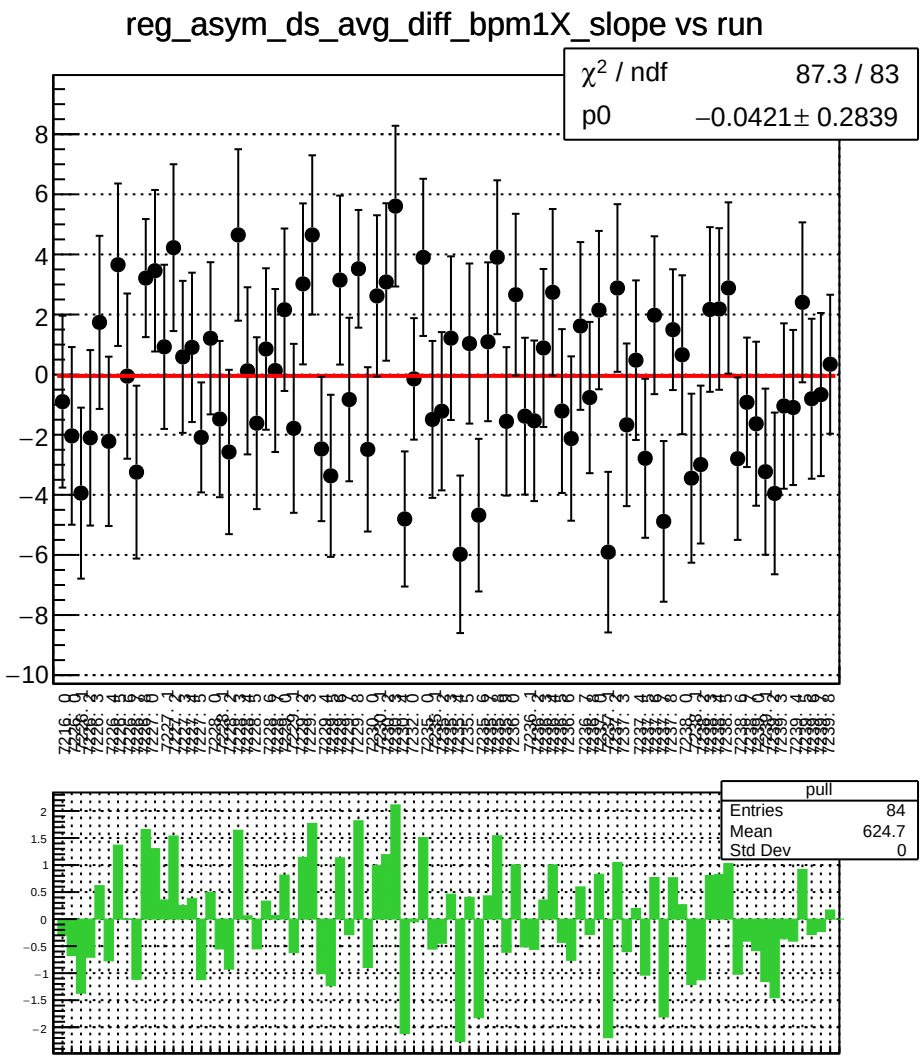

pull1D
Entries 84
Mean −0.03267
Std Dev 1.109

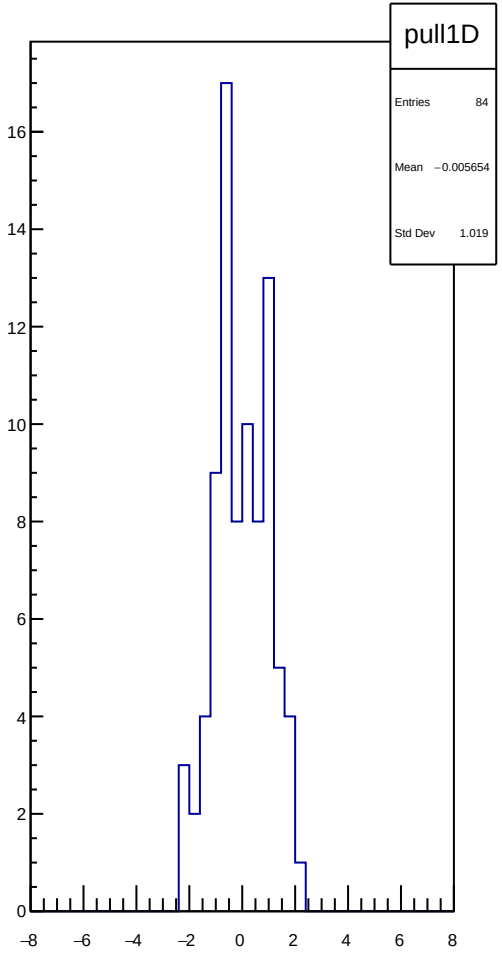

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 65.08 / 83
p0 1.173 ± 0.8214
pull
Entries 84
Mean 84.75
Std Dev 0

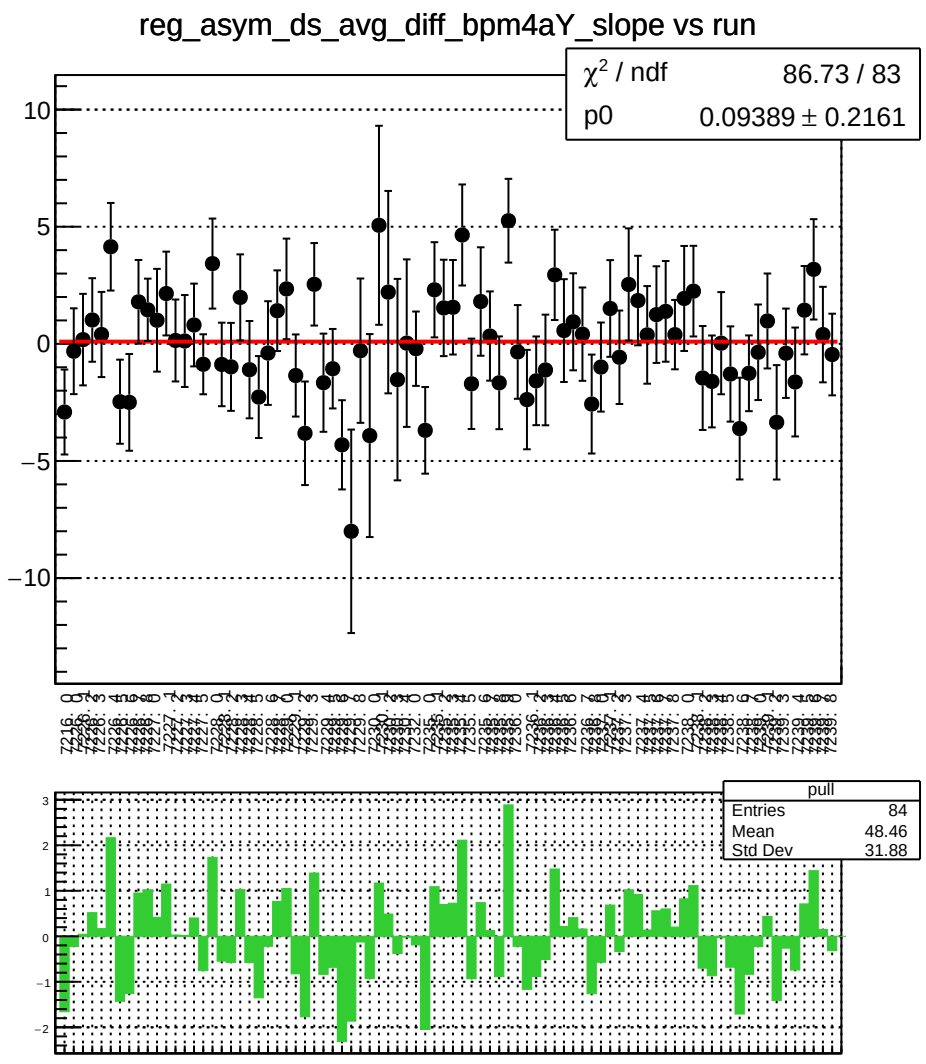

pull1D
Entries 84
Mean 0.03276
Std Dev 0.8796

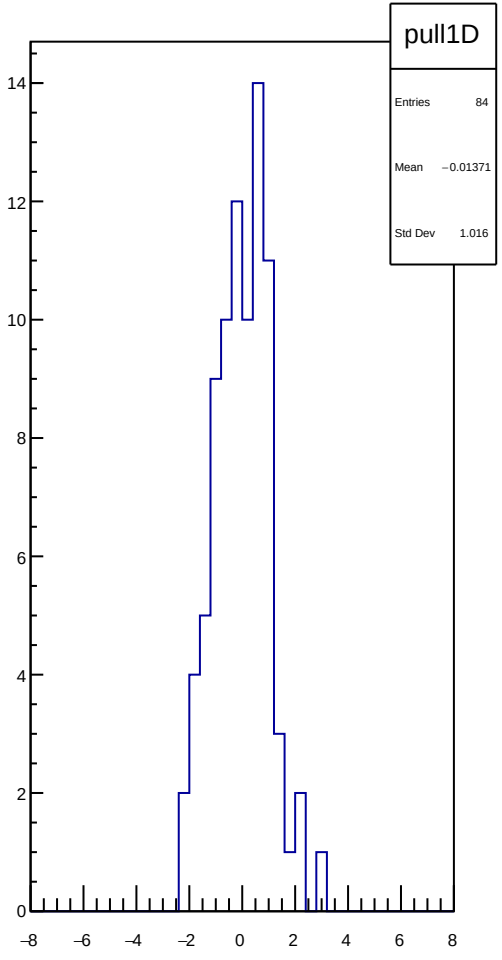

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 83.39 / 83
p0 0.1015 ± 0.03459
pull
Entries 84
Mean −2887
Std Dev 0

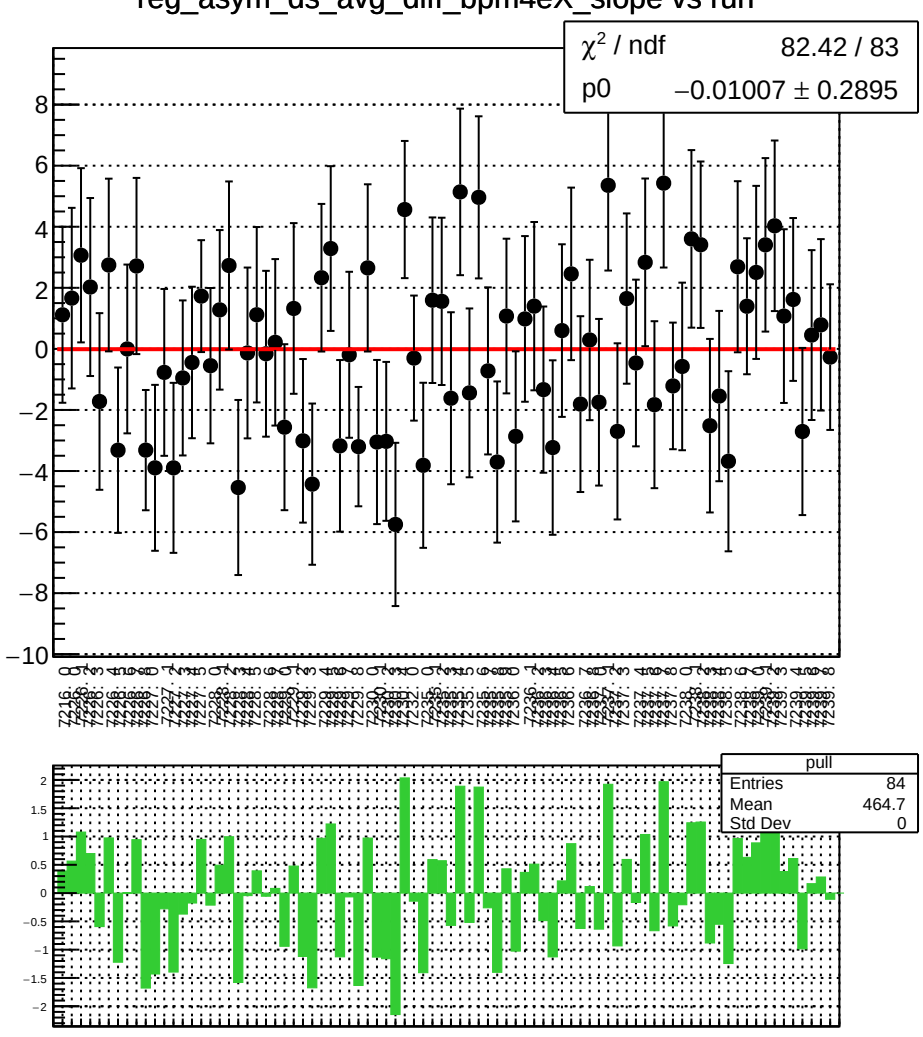

pull1D
Entries 84
Mean 0.002086
Std Dev 0.9964

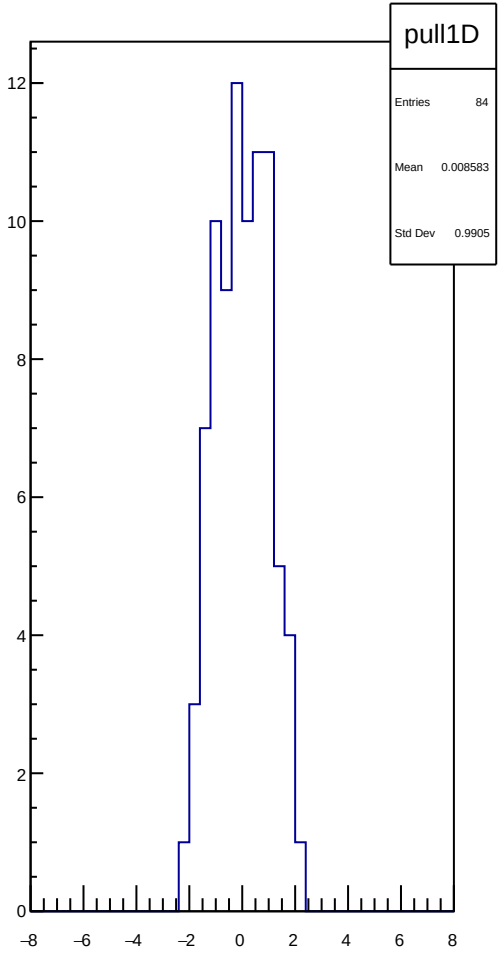

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 87.3 / 83
p0 −0.0421± 0.2839
pull
Entries 84
Mean 624.7
Std Dev 0

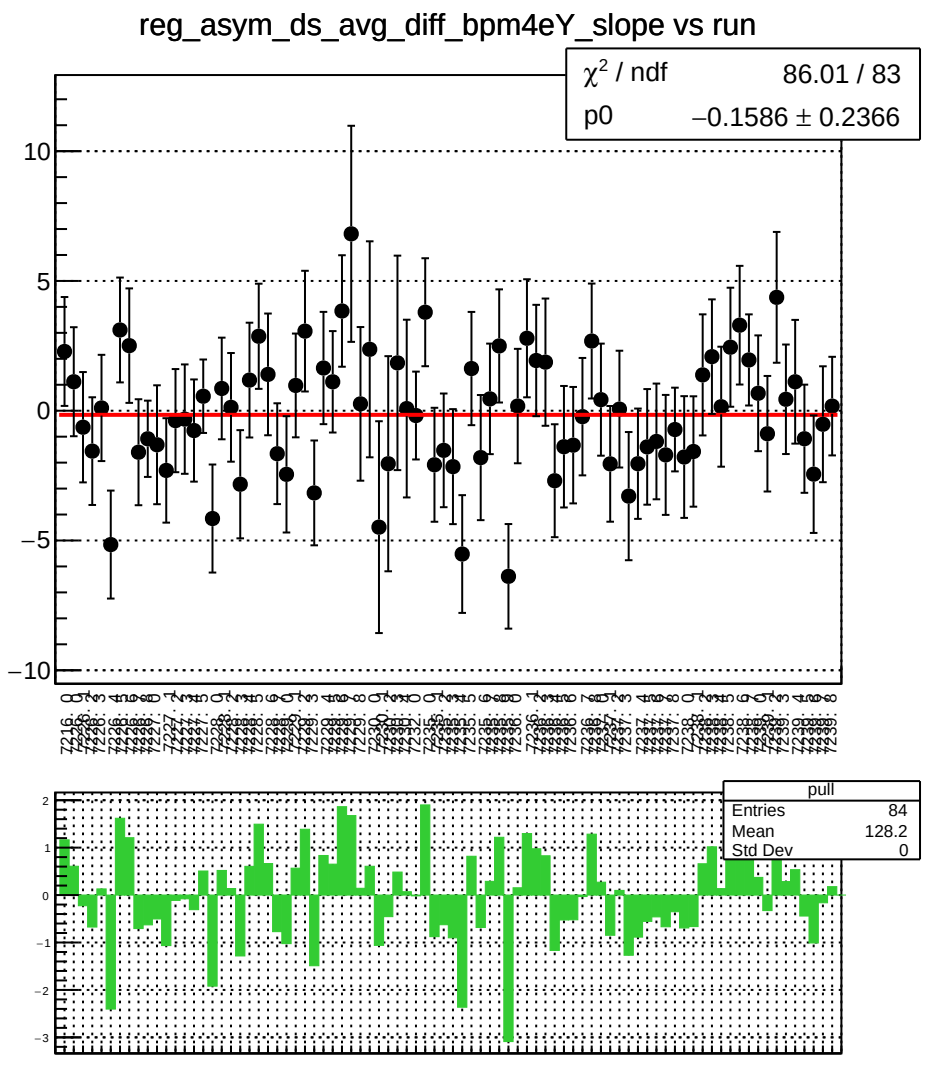

pull1D
Entries 84
Mean −0.005654
Std Dev 1.019

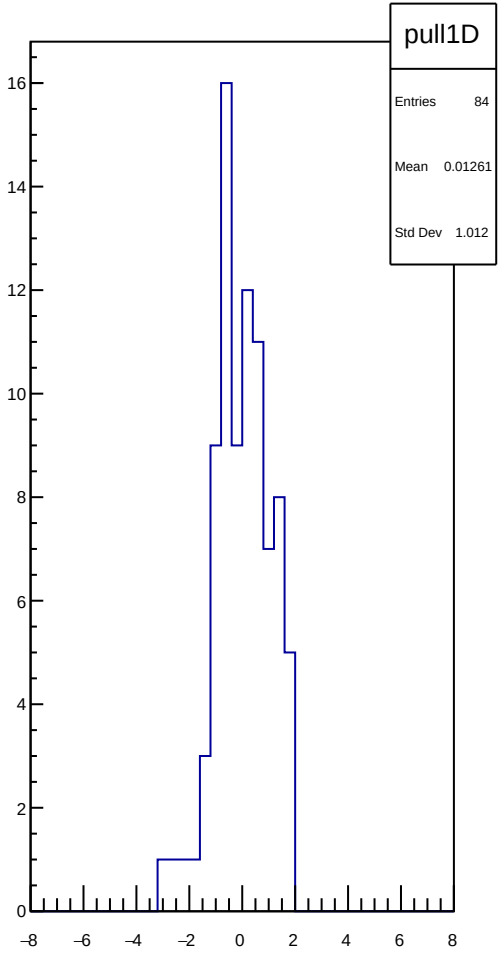

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 86.73 / 83
p0 0.09389 ± 0.2161
pull
Entries 84
Mean 48.46
Std Dev 31.88

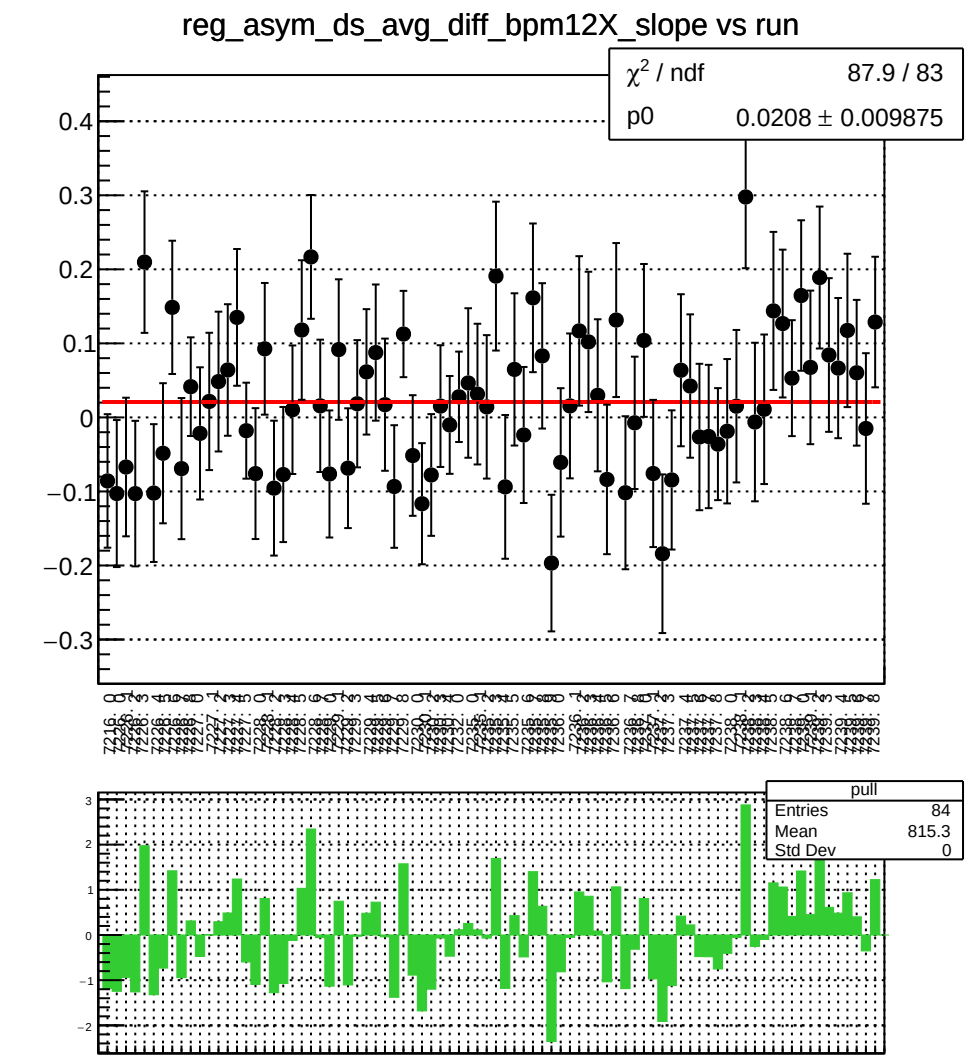

pull1D
Entries 84
Mean −0.01371
Std Dev 1.016

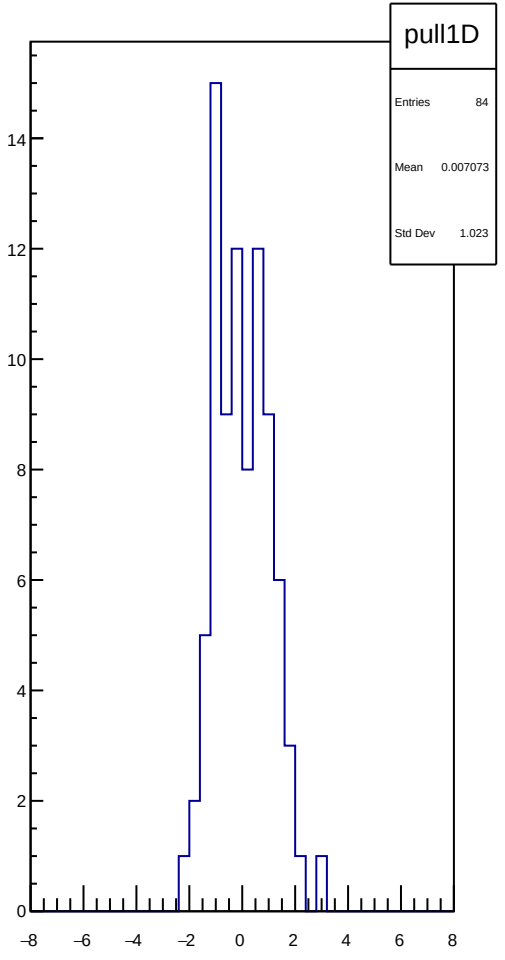

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 82.42 / 83
p0 −0.01007 ± 0.2895
pull
Entries 84
Mean 464.7
Std Dev 0

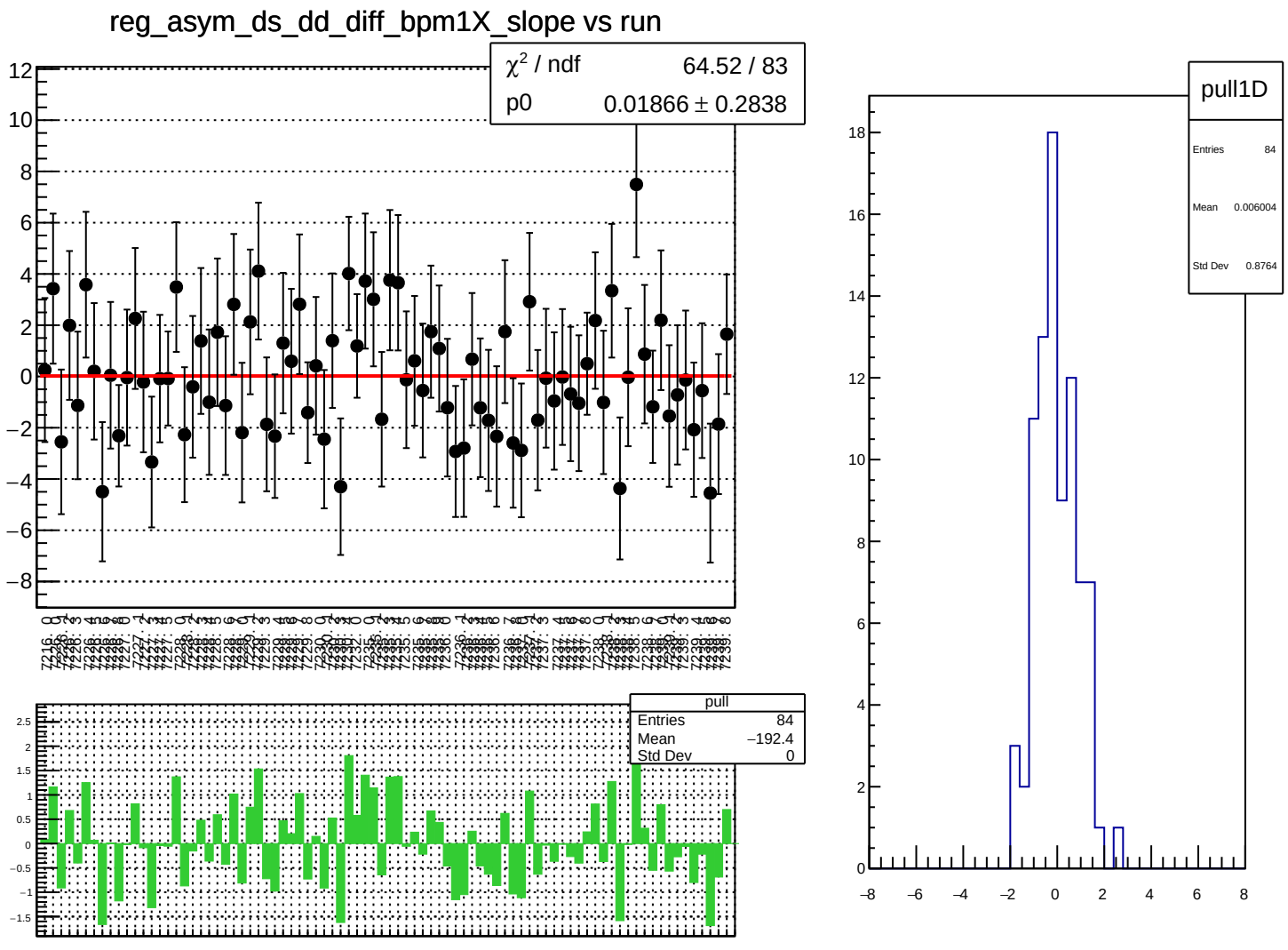

pull1D
Entries 84
Mean 0.008583
Std Dev 0.9905

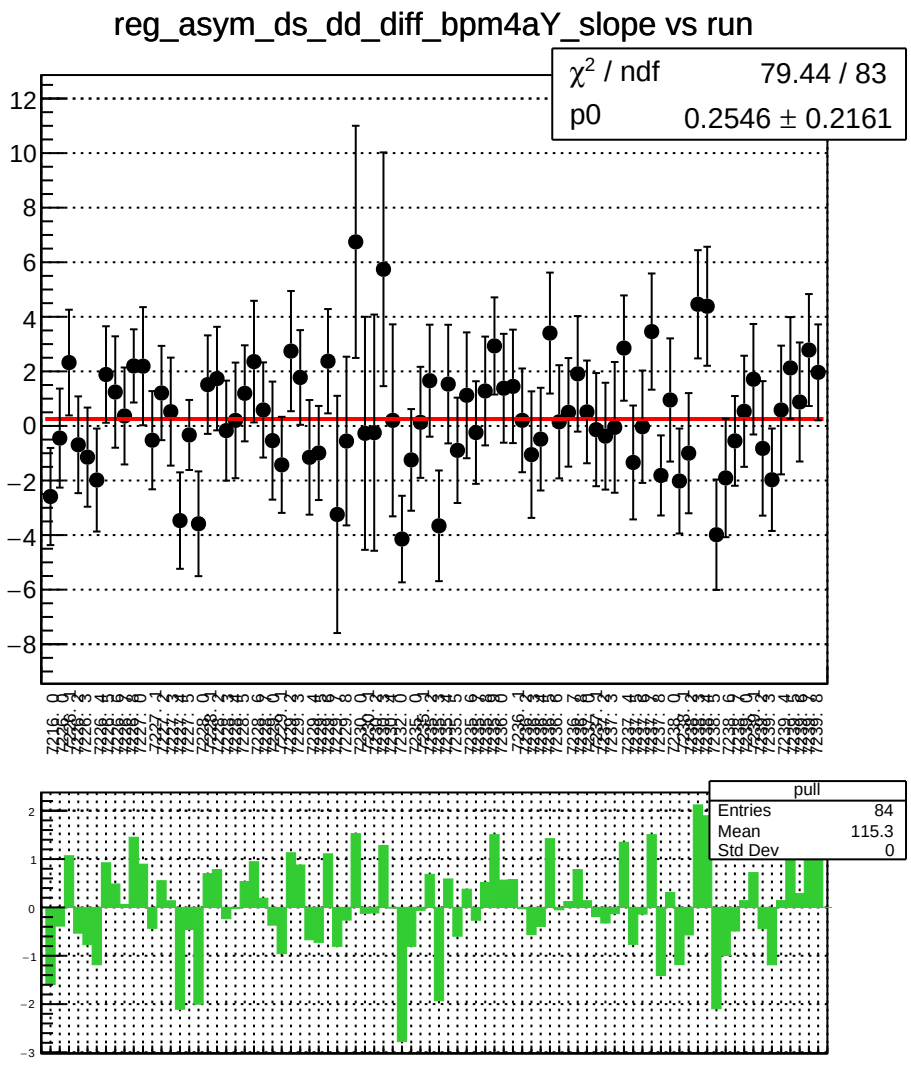

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 86.01 / 83
p0 −0.1586 ± 0.2366
pull
Entries 84
Mean 128.2
Std Dev 0

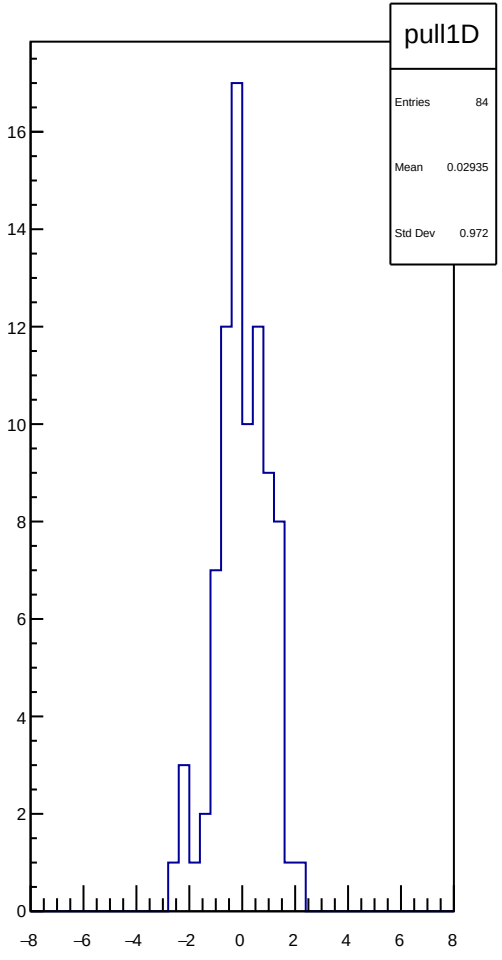

pull1D
Entries 84
Mean 0.01261
Std Dev 1.012

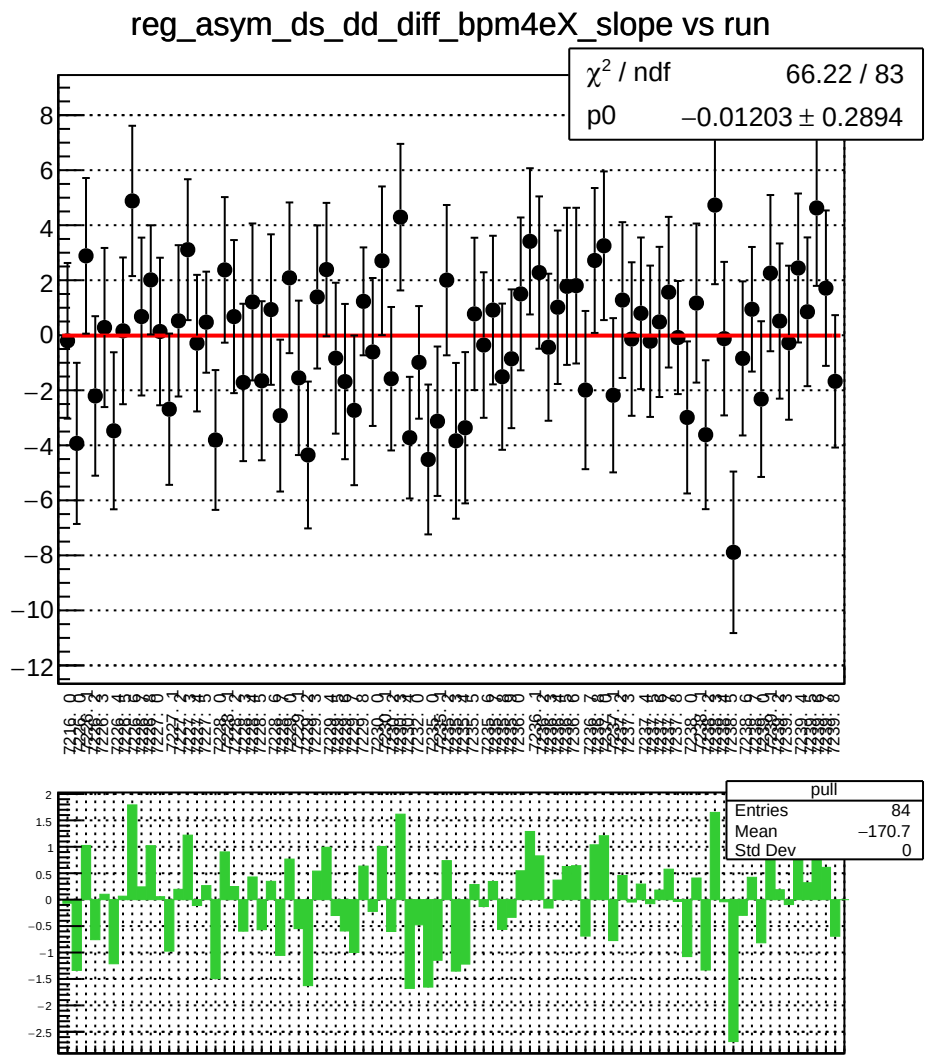

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 87.9 / 83
p0 0.0208 ± 0.009875
pull
Entries 84
Mean 815.3
Std Dev 0

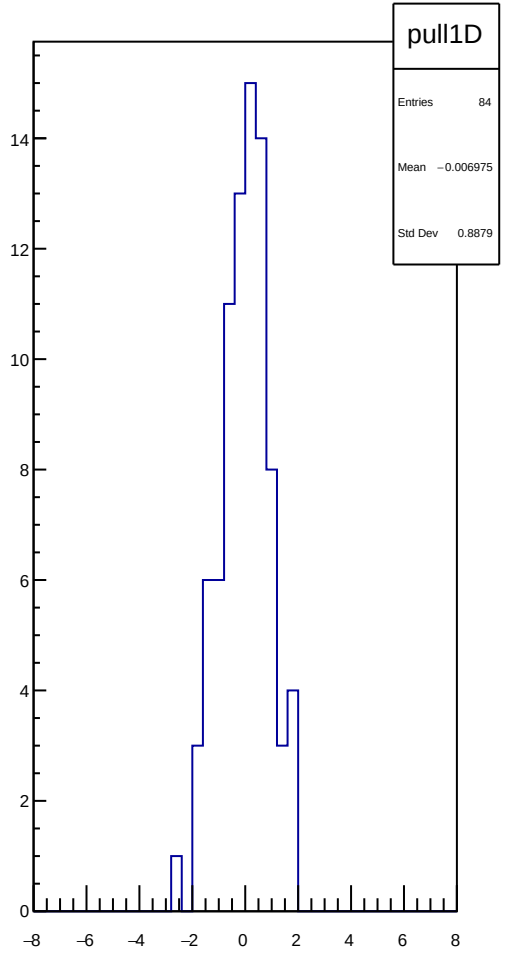

pull1D
Entries 84
Mean 0.007073
Std Dev 1.023

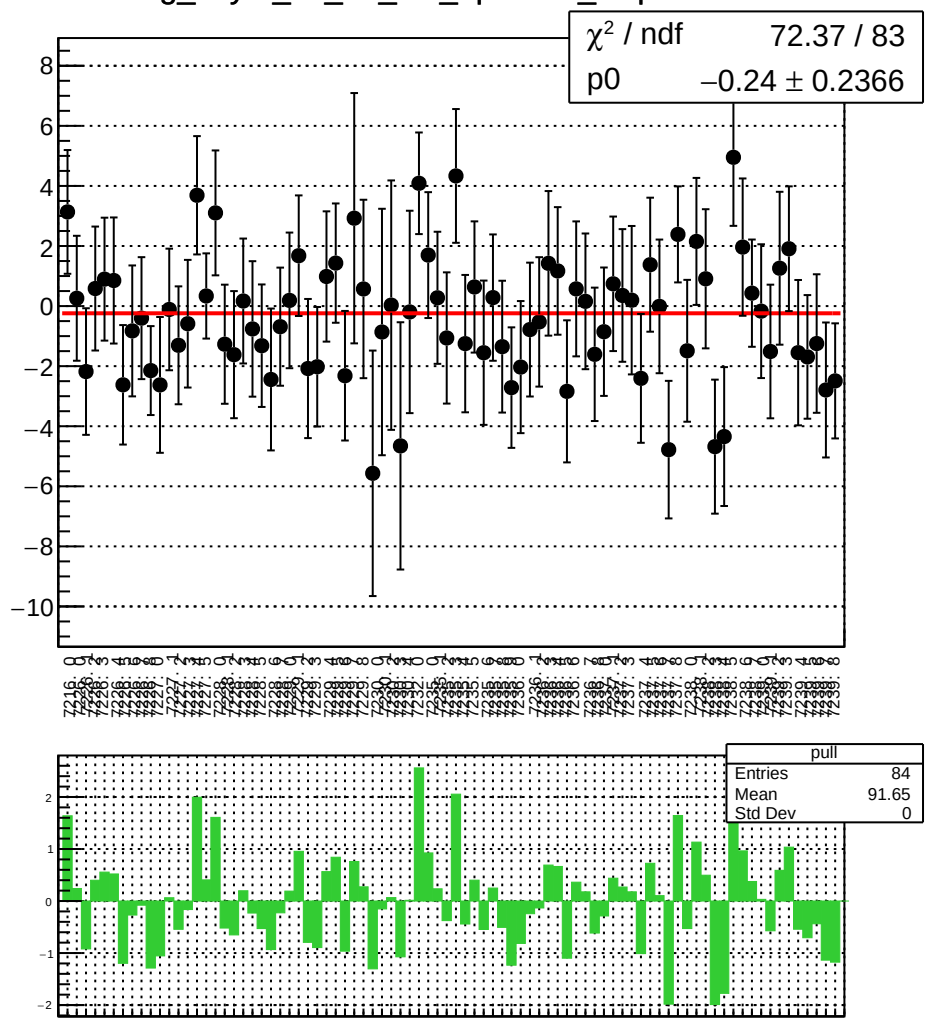

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 64.52 / 83
p0 0.01866 ± 0.2838
pull
Entries 84
Mean −192.4
Std Dev 0
pull1D
Entries 84
Mean 0.006004
Std Dev 0.8764

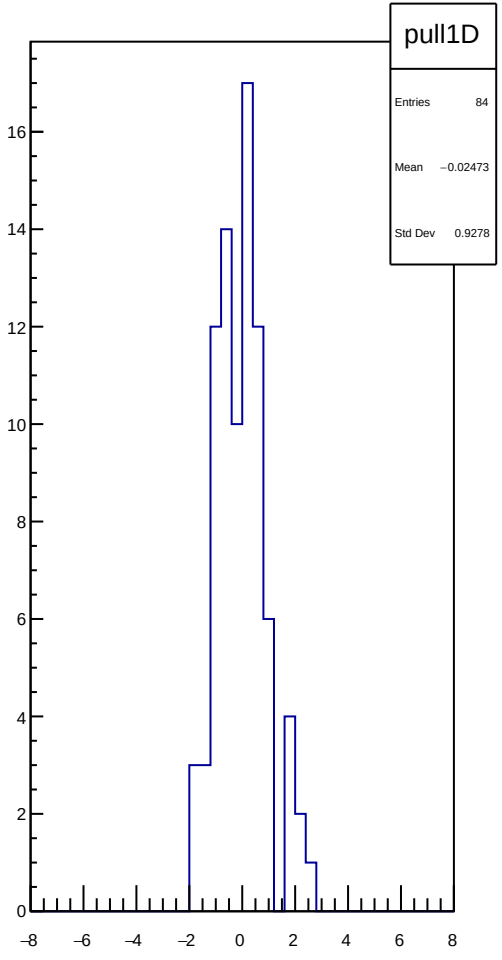

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 79.44 / 83
p0 0.2546 ± 0.2161
pull
Entries 84
Mean 115.3
Std Dev 0

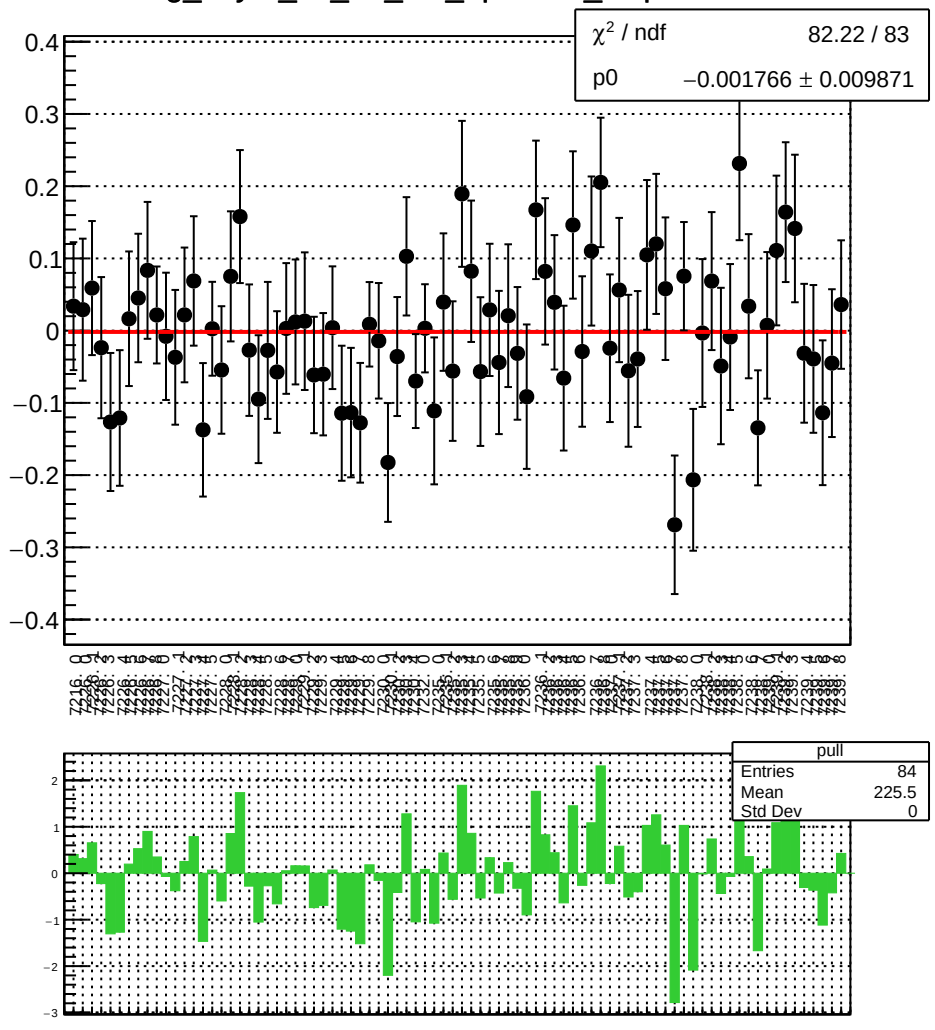

pull1D
Entries 84
Mean 0.02935
Std Dev 0.972

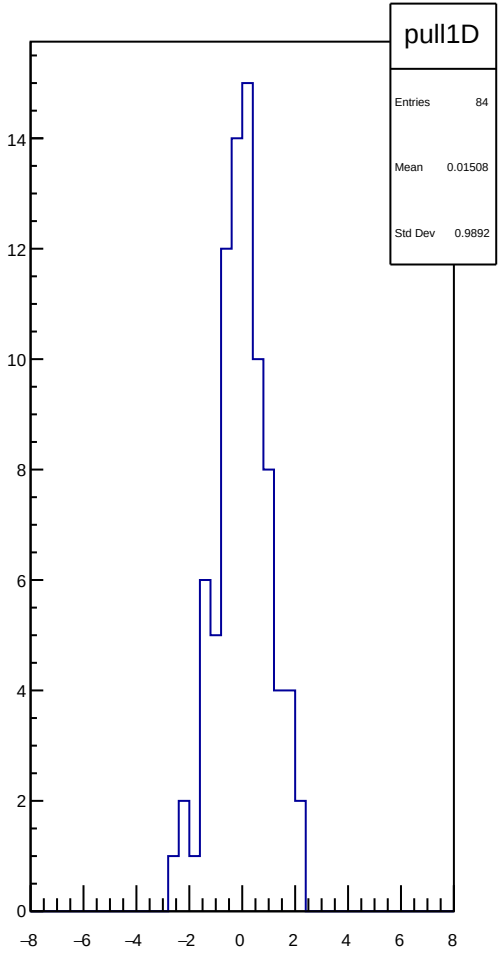

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 66.22 / 83
p0 −0.01203 ± 0.2894
pull
Entries 84
Mean −170.7
Std Dev 0

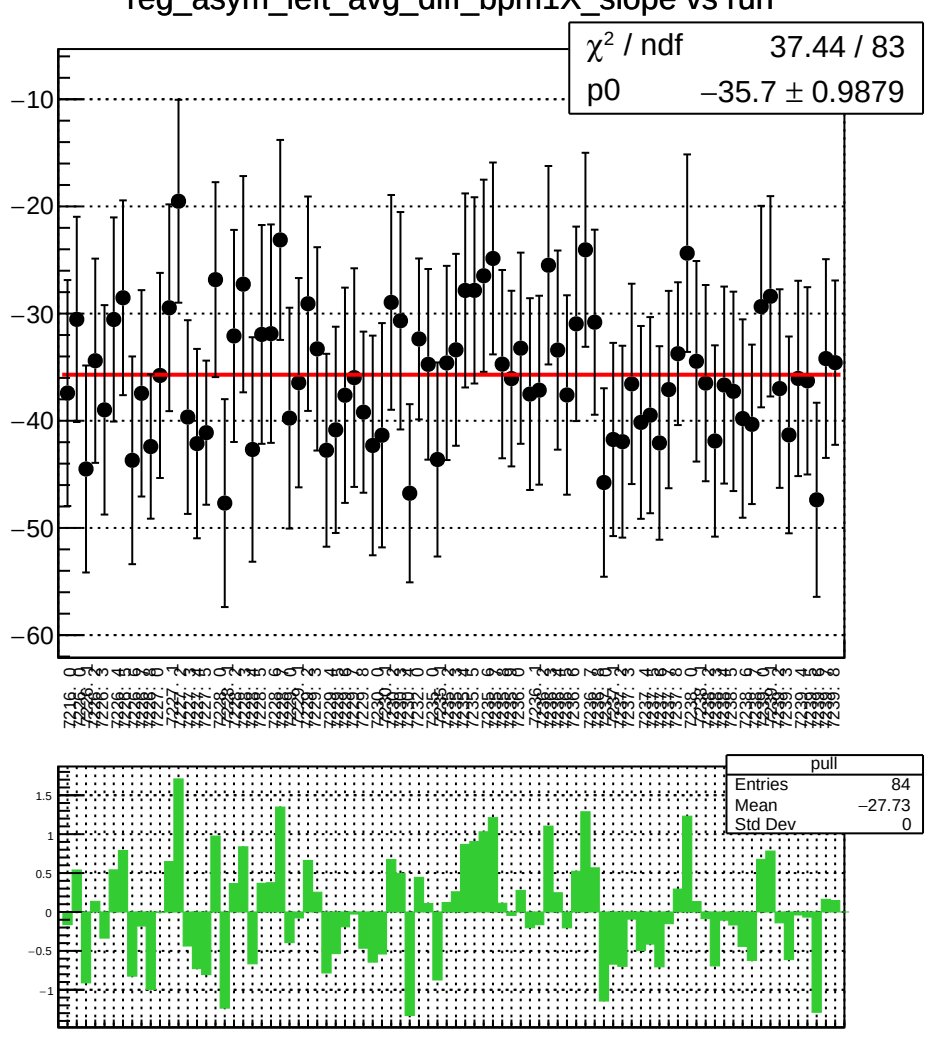

pull1D
Entries 84
Mean −0.006975
Std Dev 0.8879

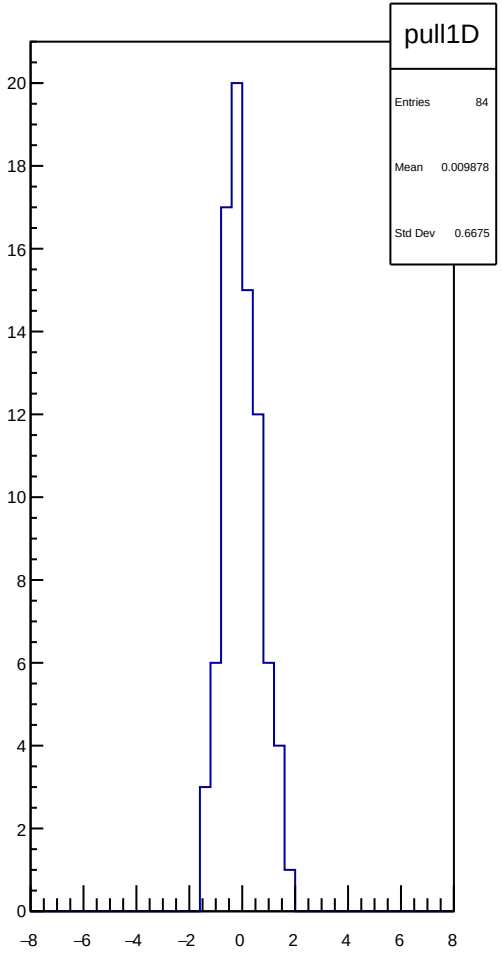

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 72.37 / 83
p0 −0.24 ± 0.2366
pull
Entries 84
Mean 91.65
Std Dev 0

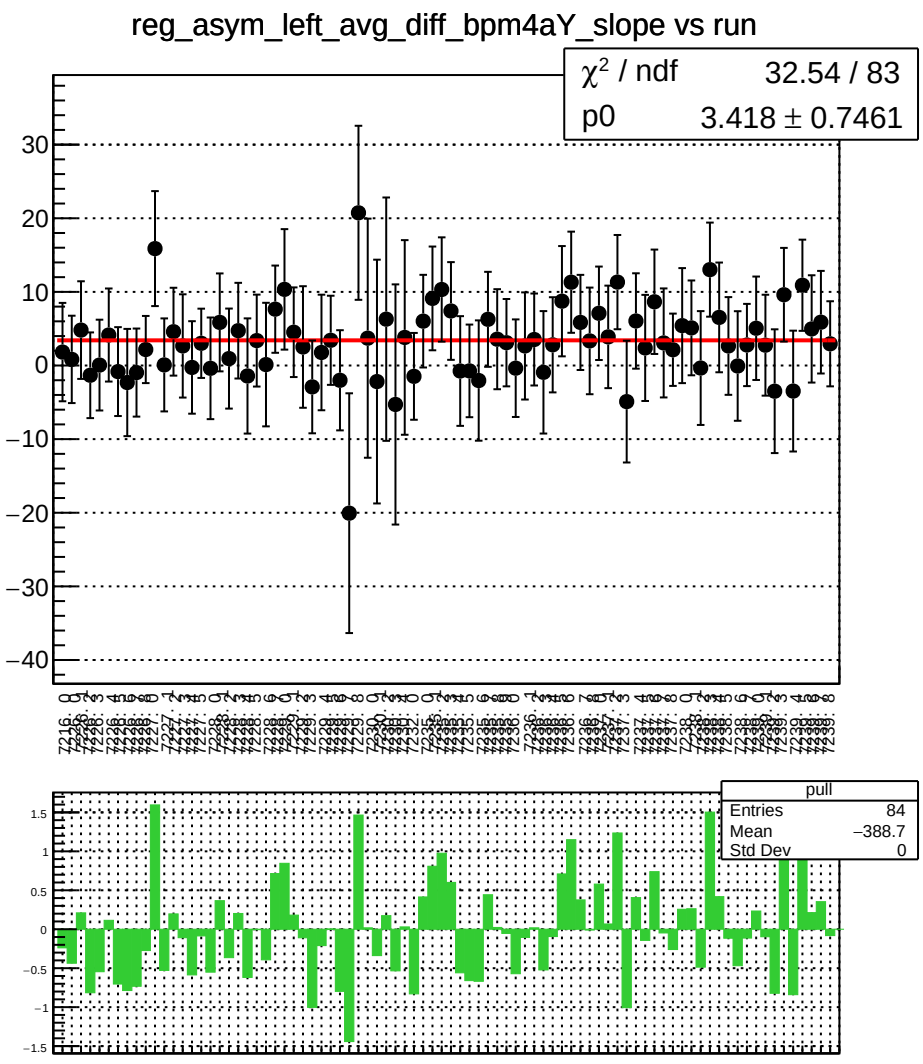

pull1D
Entries 84
Mean −0.02473
Std Dev 0.9278

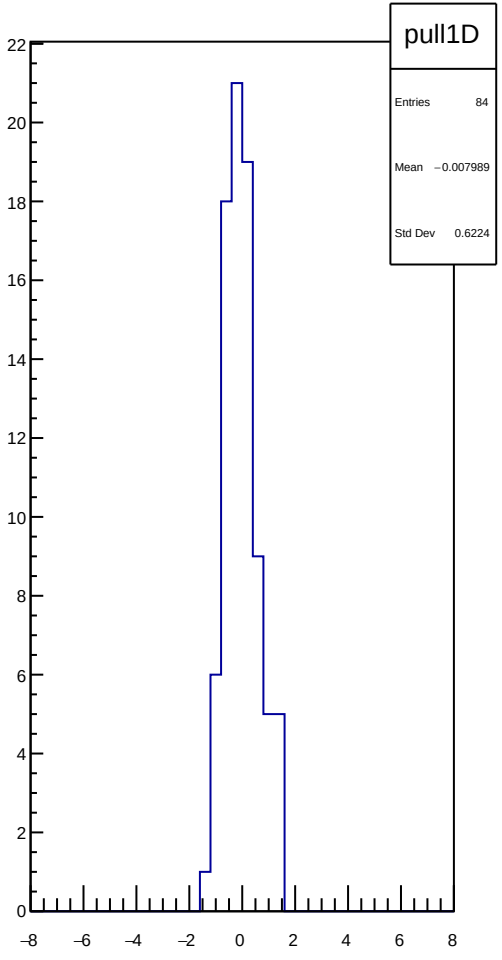

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 82.22 / 83
p0 −0.001766 ± 0.009871
pull
Entries 84
Mean 225.5
Std Dev 0

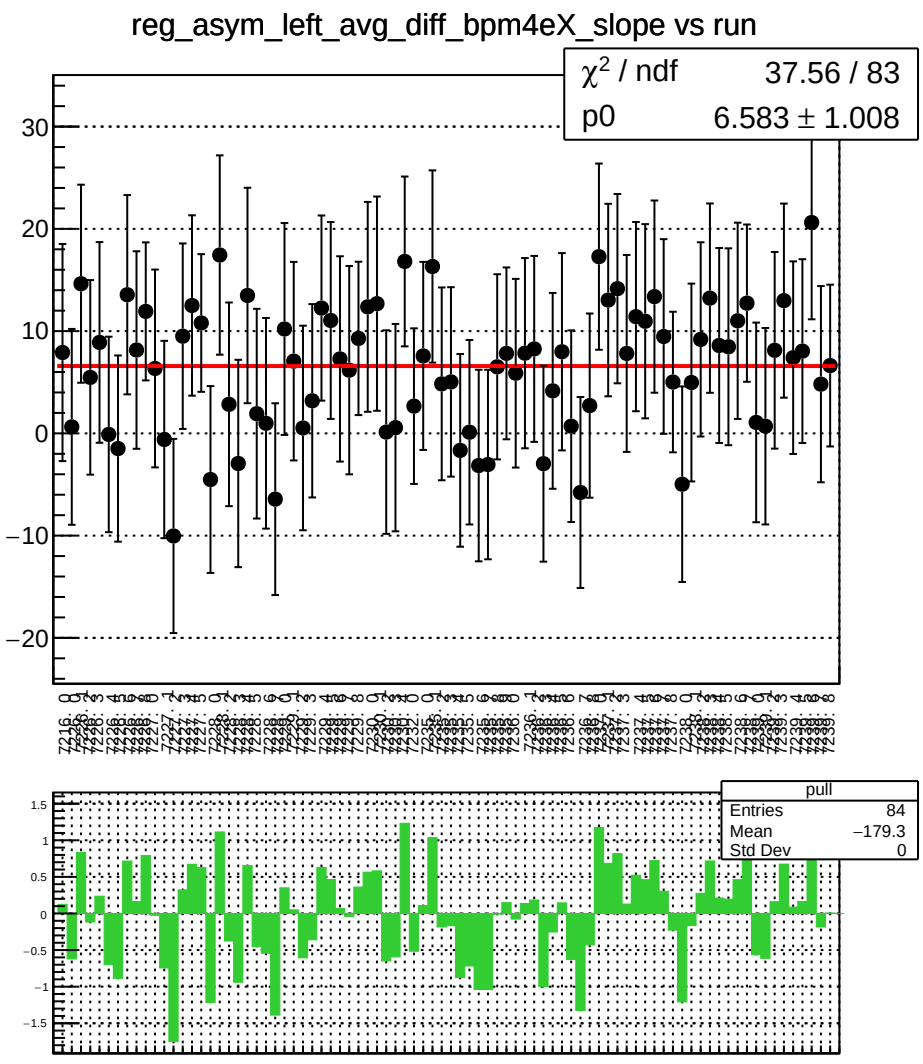

pull1D
Entries 84
Mean 0.01508
Std Dev 0.9892

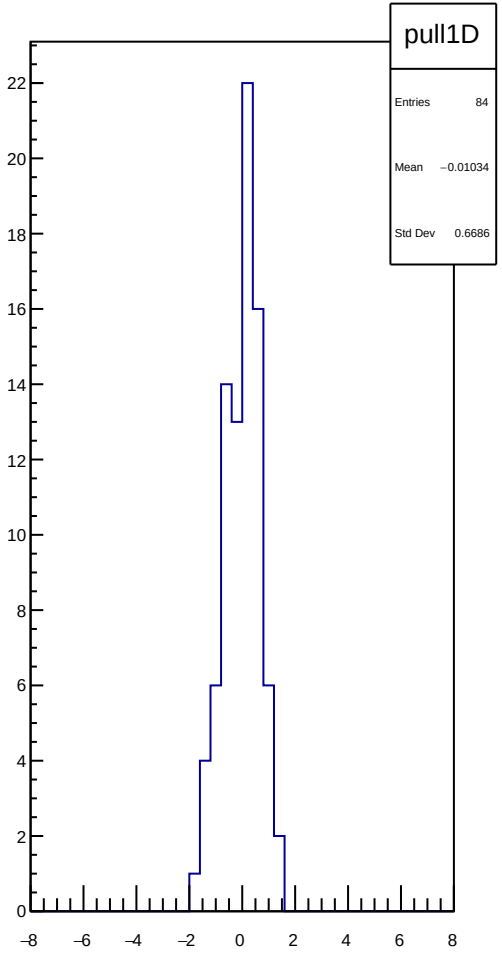

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 37.44 / 83
p0 −35.7 ± 0.9879
pull
Entries 84
Mean −27.73
Std Dev 0

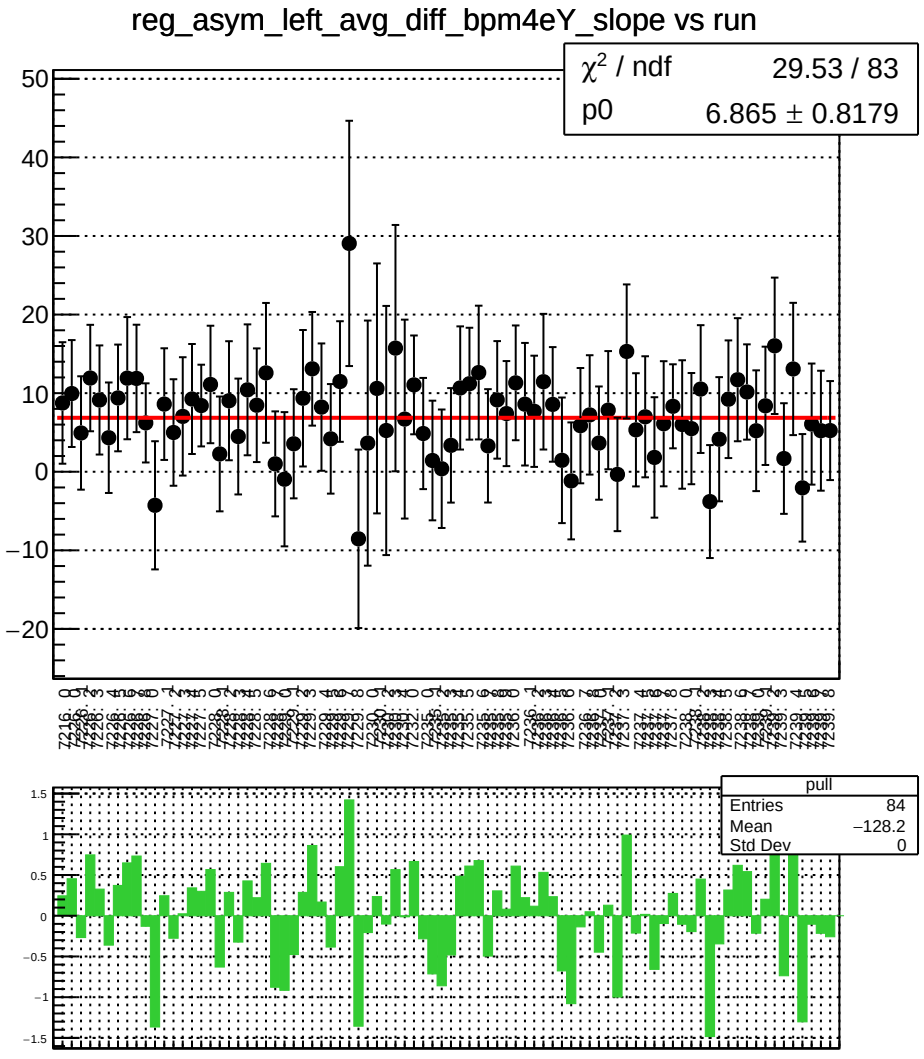

pull1D
Entries 84
Mean 0.009878
Std Dev 0.6675

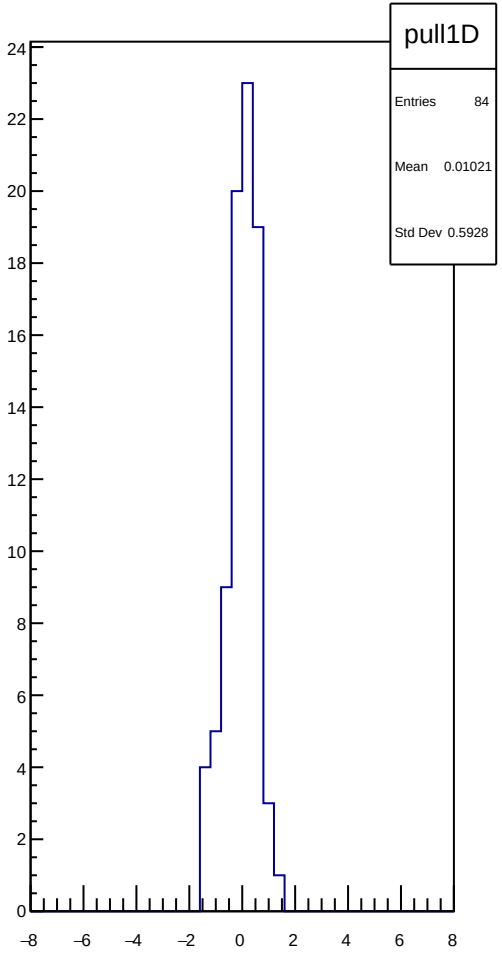

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 32.54 / 83
p0 3.418 ± 0.7461
pull
Entries 84
Mean −388.7
Std Dev 0

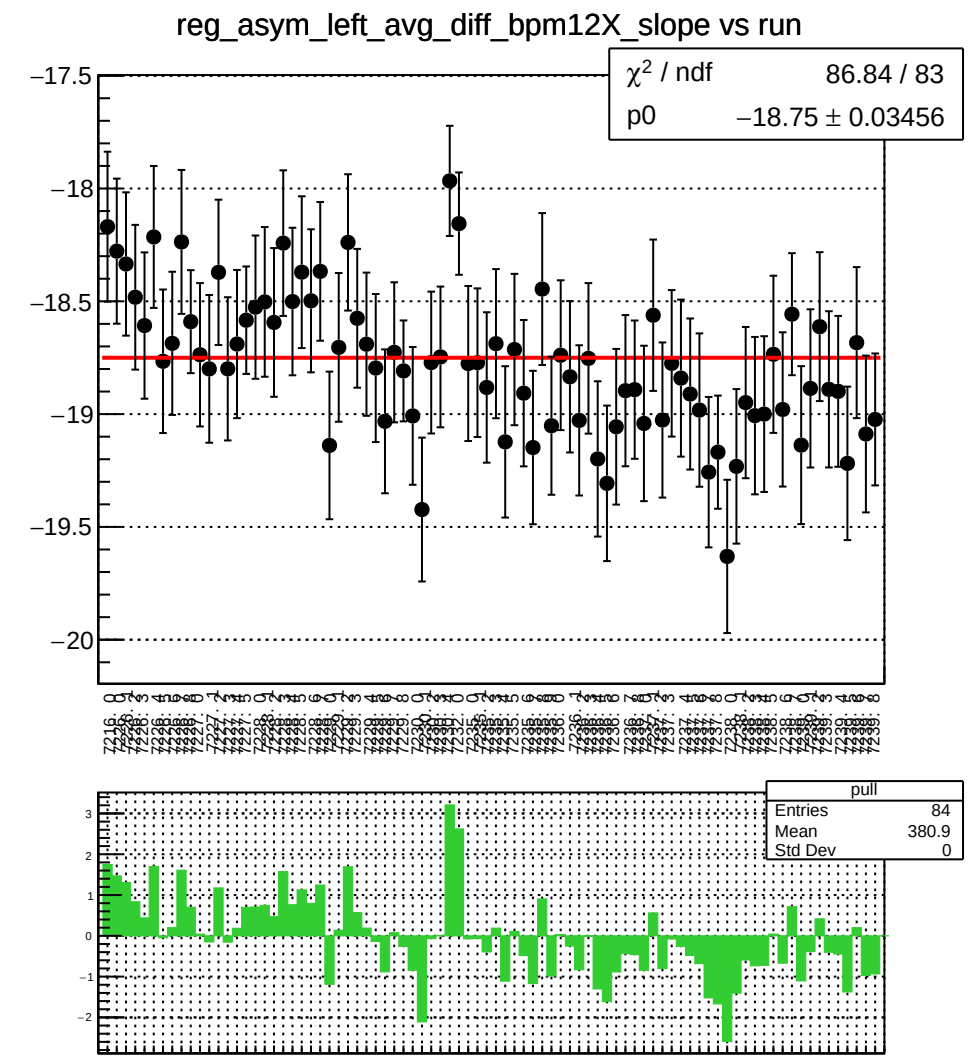

pull1D
Entries 84
Mean −0.007989
Std Dev 0.6224

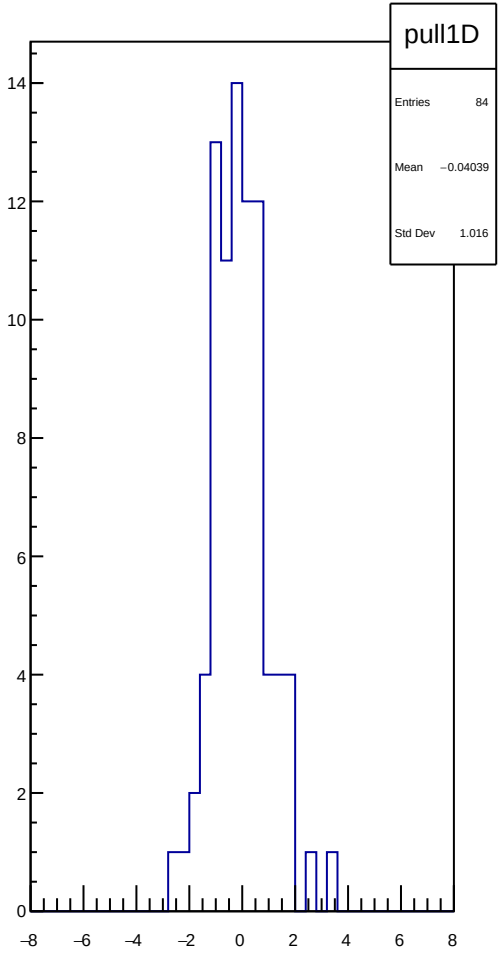

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 37.56 / 83
p0 6.583 ± 1.008
pull
Entries 84
Mean −179.3
Std Dev 0

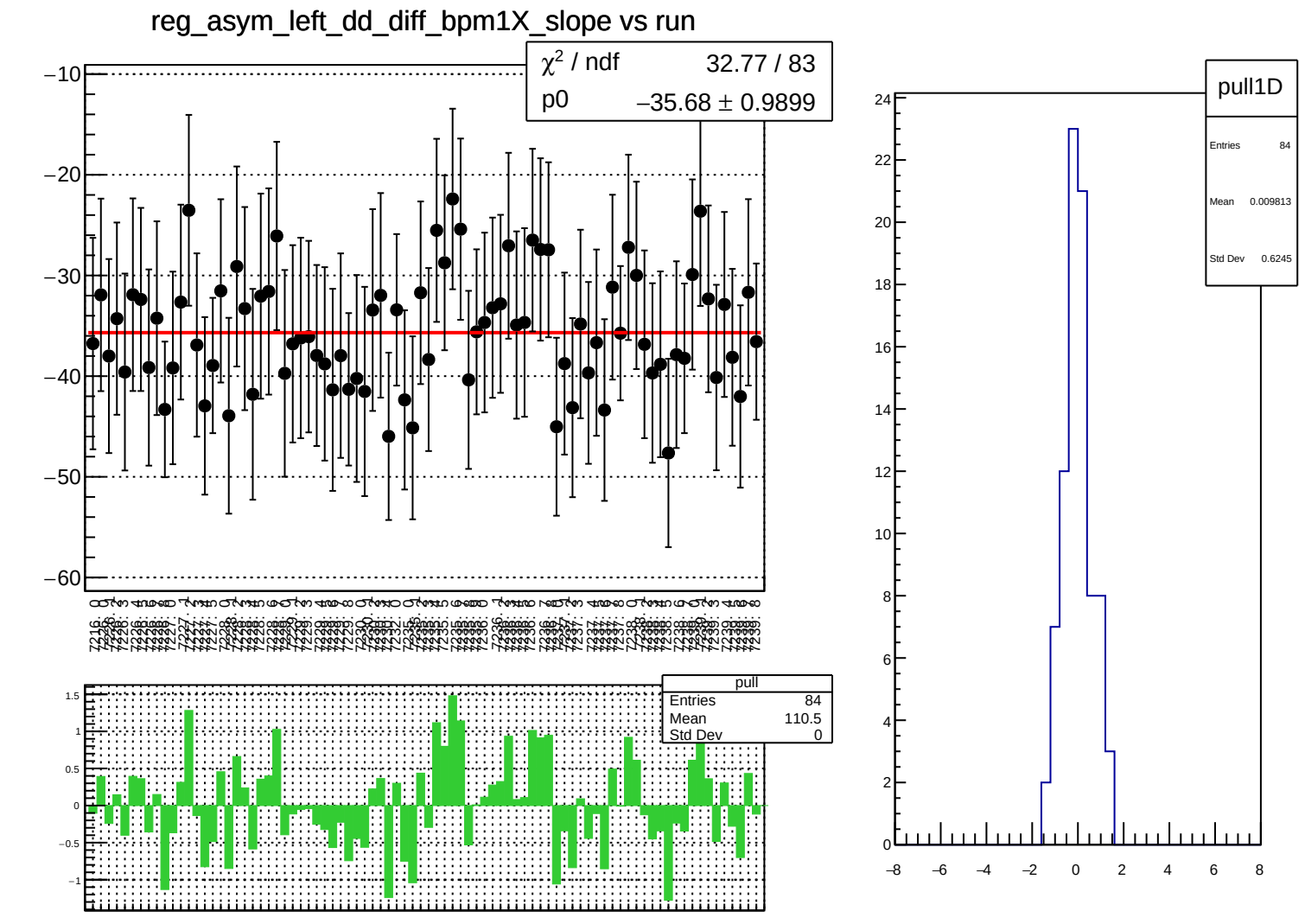

pull1D
Entries 84
Mean −0.01034
Std Dev 0.6686

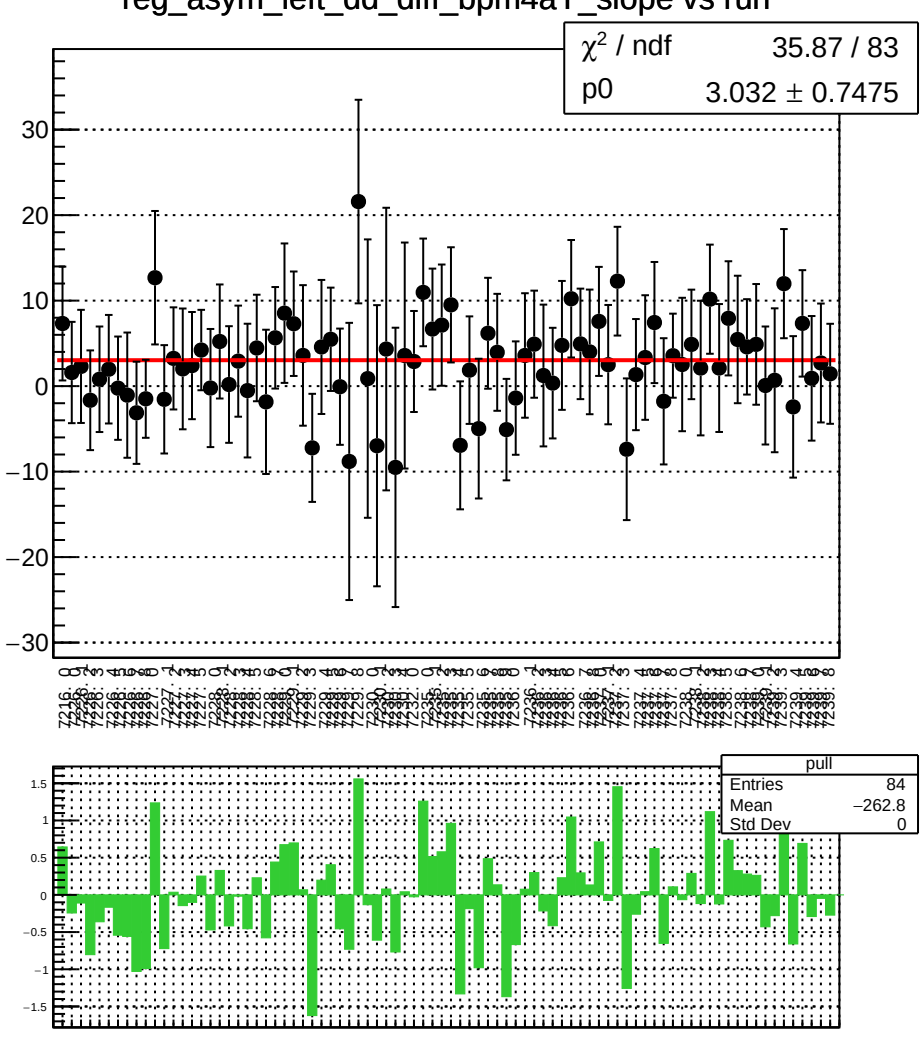

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 29.53 / 83
p0 6.865 ± 0.8179
pull
Entries 84
Mean −128.2
Std Dev 0

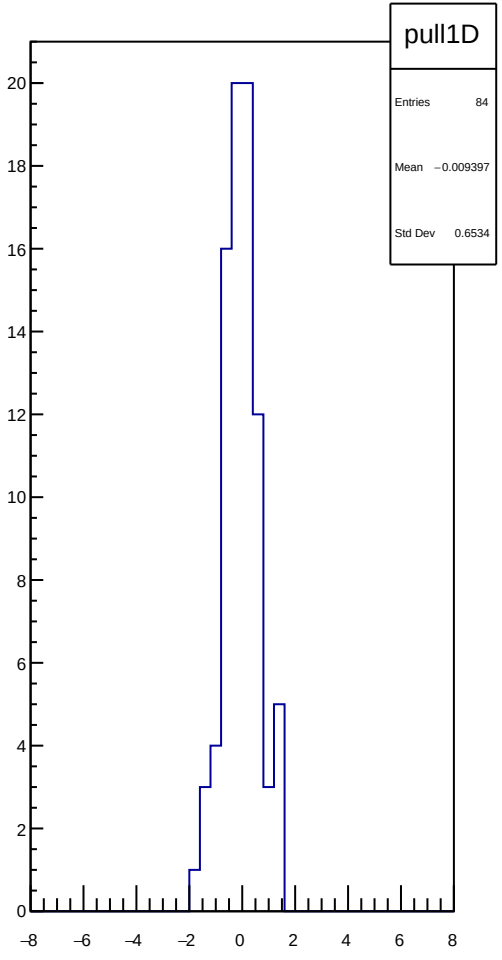

pull1D
Entries 84
Mean 0.01021
Std Dev 0.5928

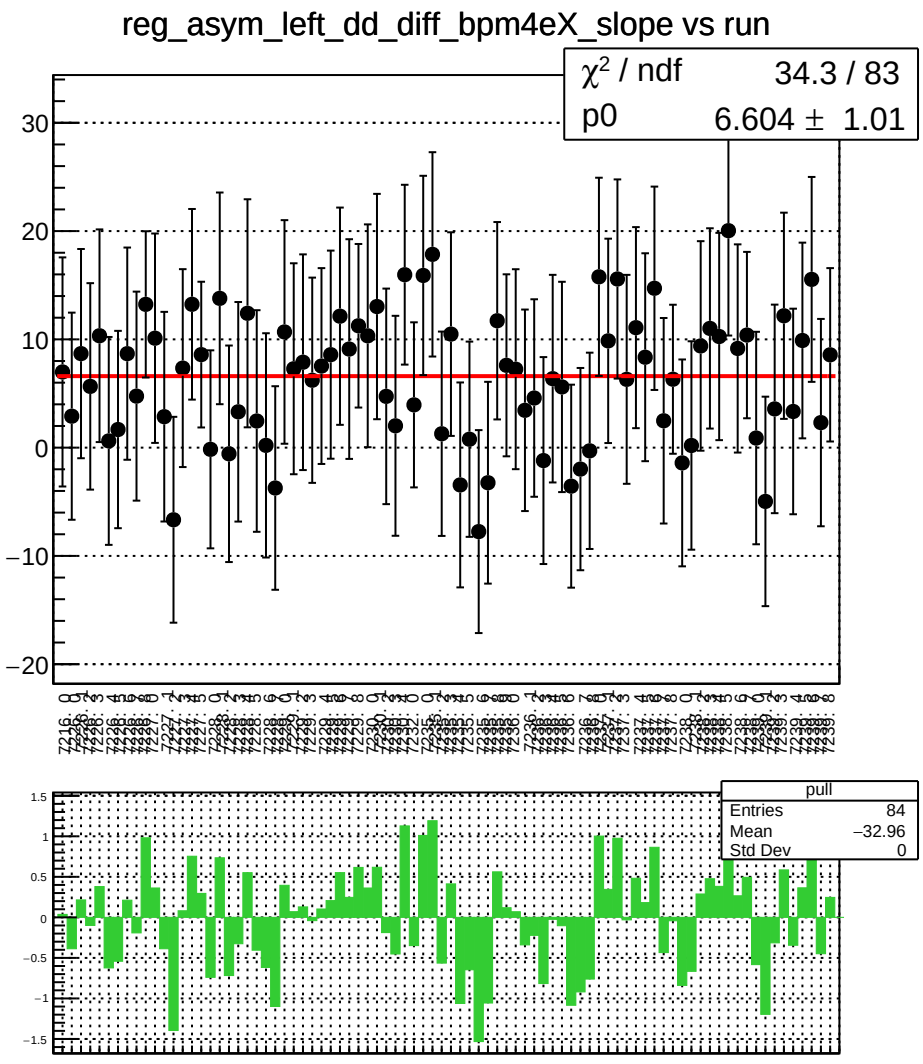

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 86.84 / 83
p0 −18.75 ± 0.03456
pull
Entries 84
Mean 380.9
Std Dev 0

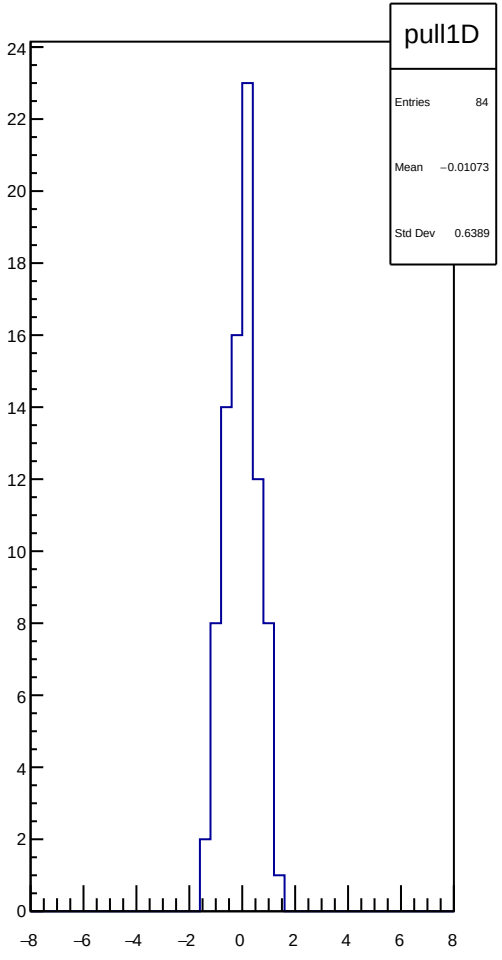

pull1D
Entries 84
Mean −0.04039
Std Dev 1.016

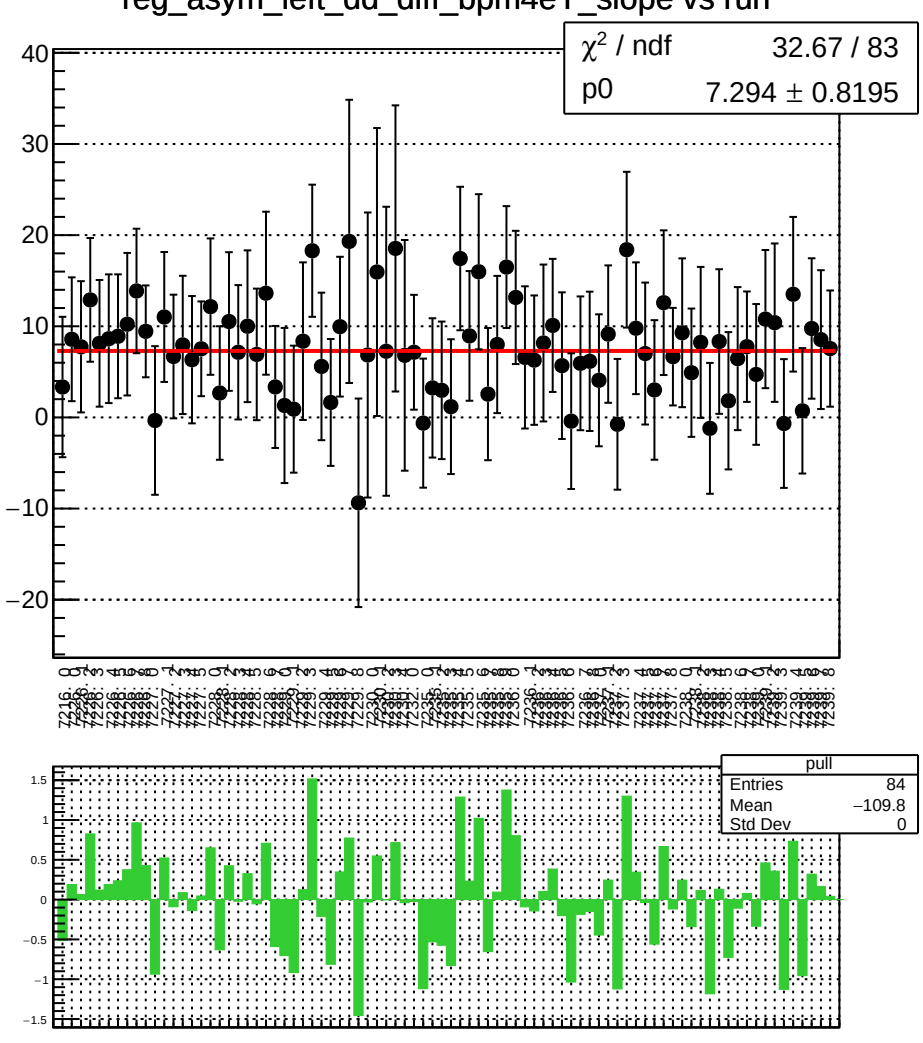

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 32.77 / 83
p0 −35.68 ± 0.9899
pull
Entries 84
Mean 110.5
Std Dev 0
pull1D
Entries 84
Mean 0.009813
Std Dev 0.6245

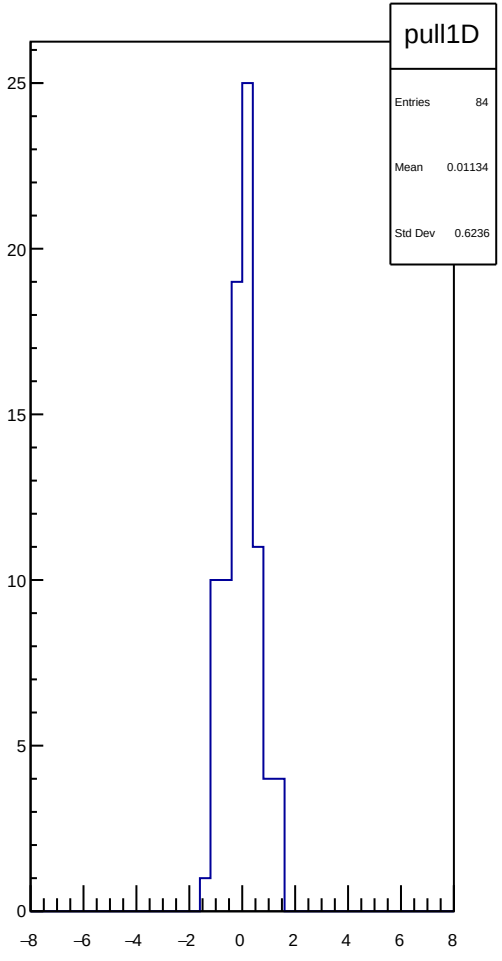

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 35.87 / 83
p0 3.032 ± 0.7475
pull
Entries 84
Mean −262.8
Std Dev 0

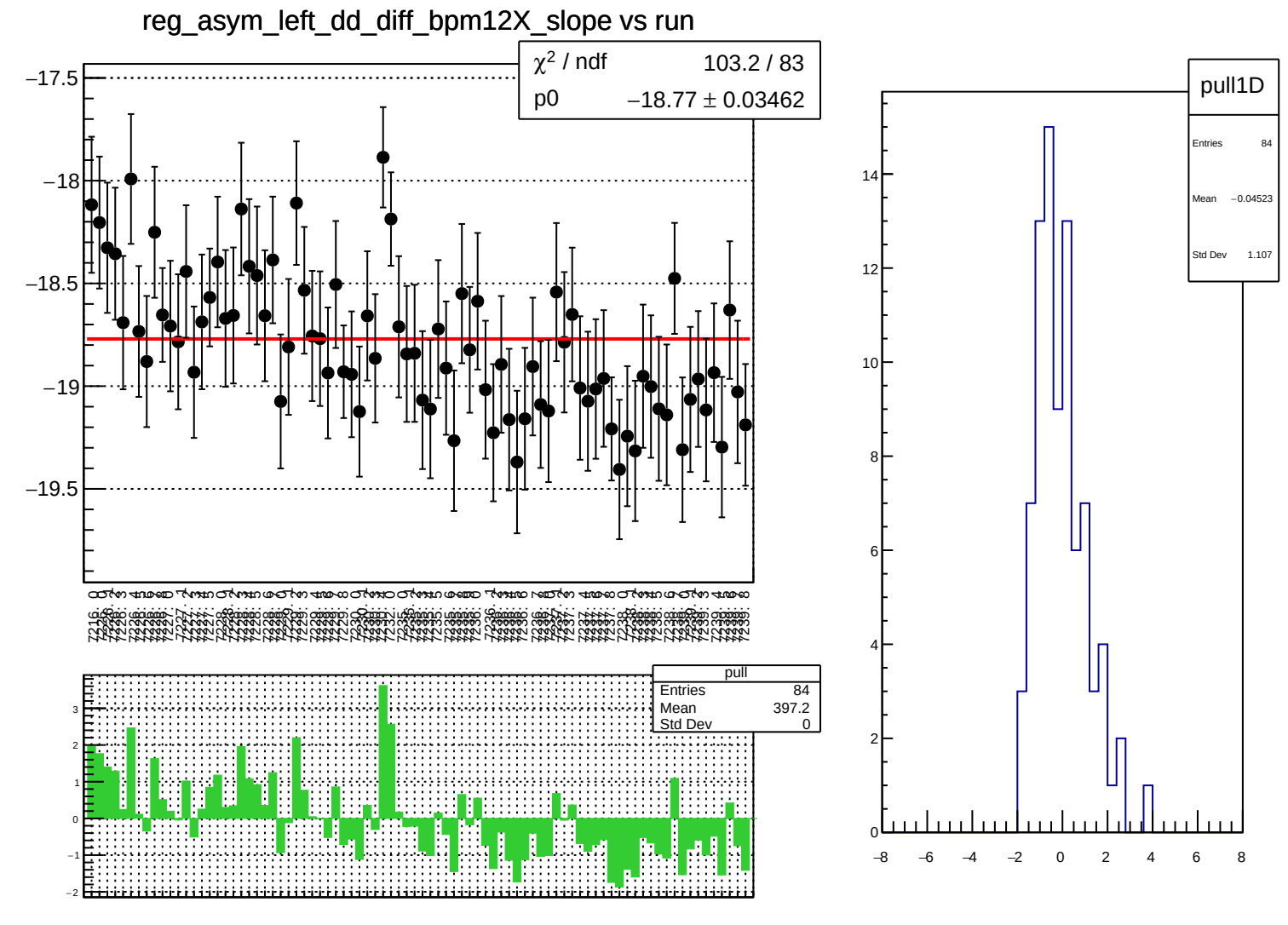

pull1D
Entries 84
Mean −0.009397
Std Dev 0.6534

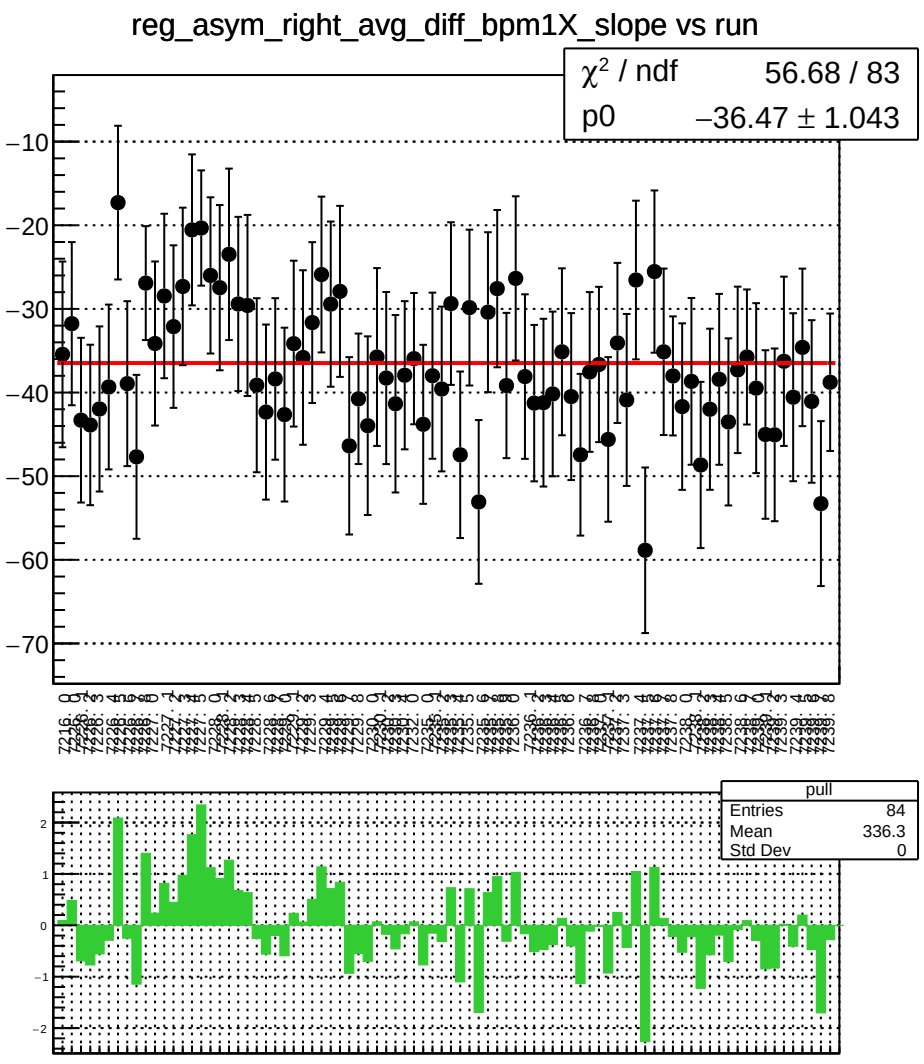

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 34.3 / 83
p0 6.604 ± 1.01
pull
Entries 84
Mean −32.96
Std Dev 0

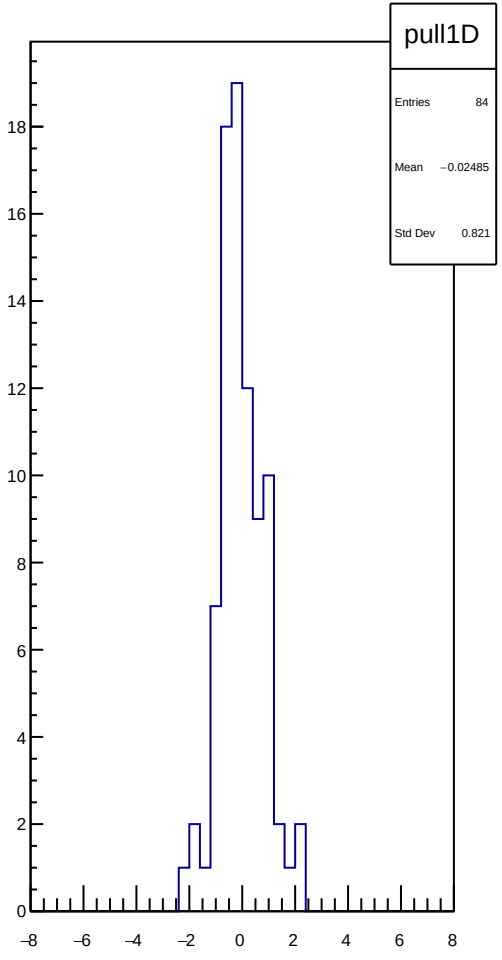

pull1D
Entries 84
Mean −0.01073
Std Dev 0.6389

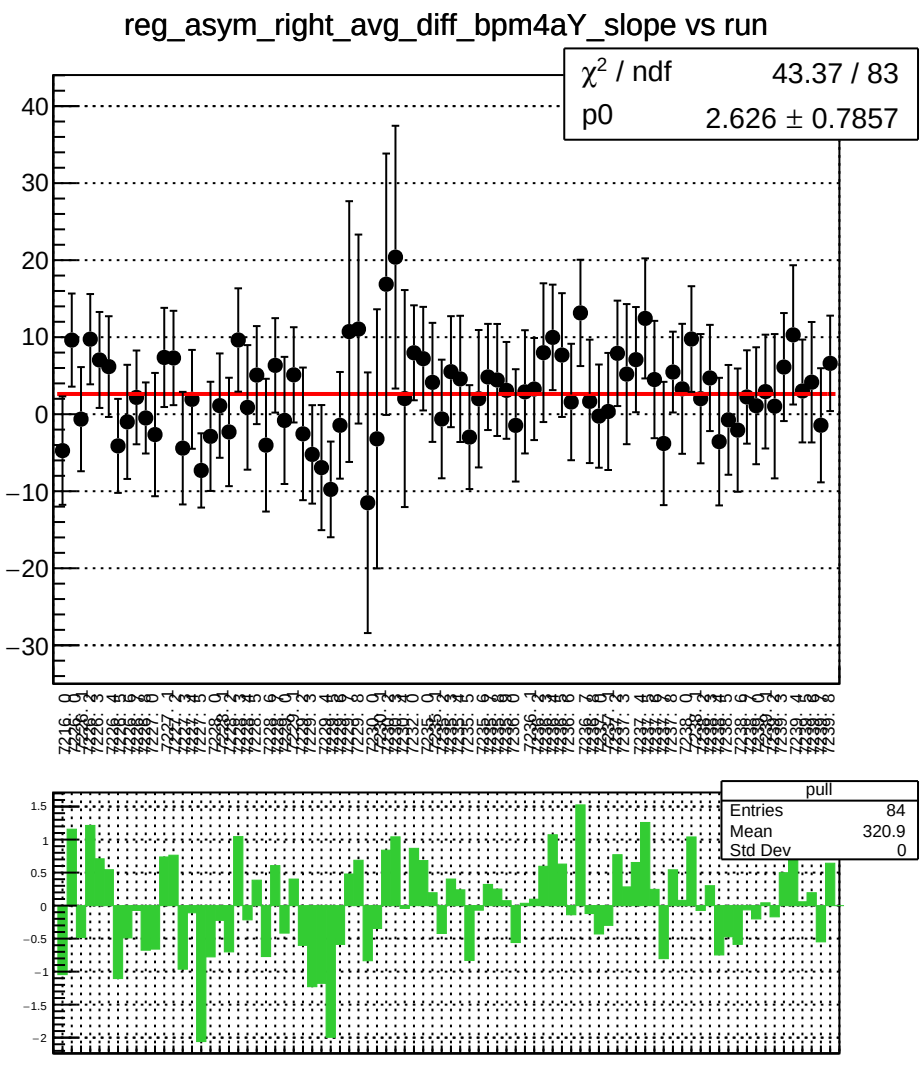

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 32.67 / 83
p0 7.294 ± 0.8195
pull
Entries 84
Mean −109.8
Std Dev 0

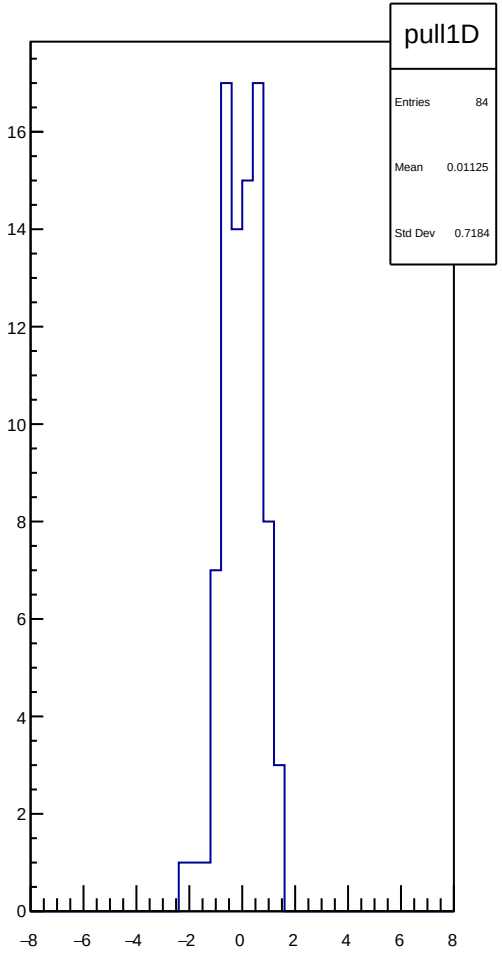

pull1D
Entries 84
Mean 0.01134
Std Dev 0.6236

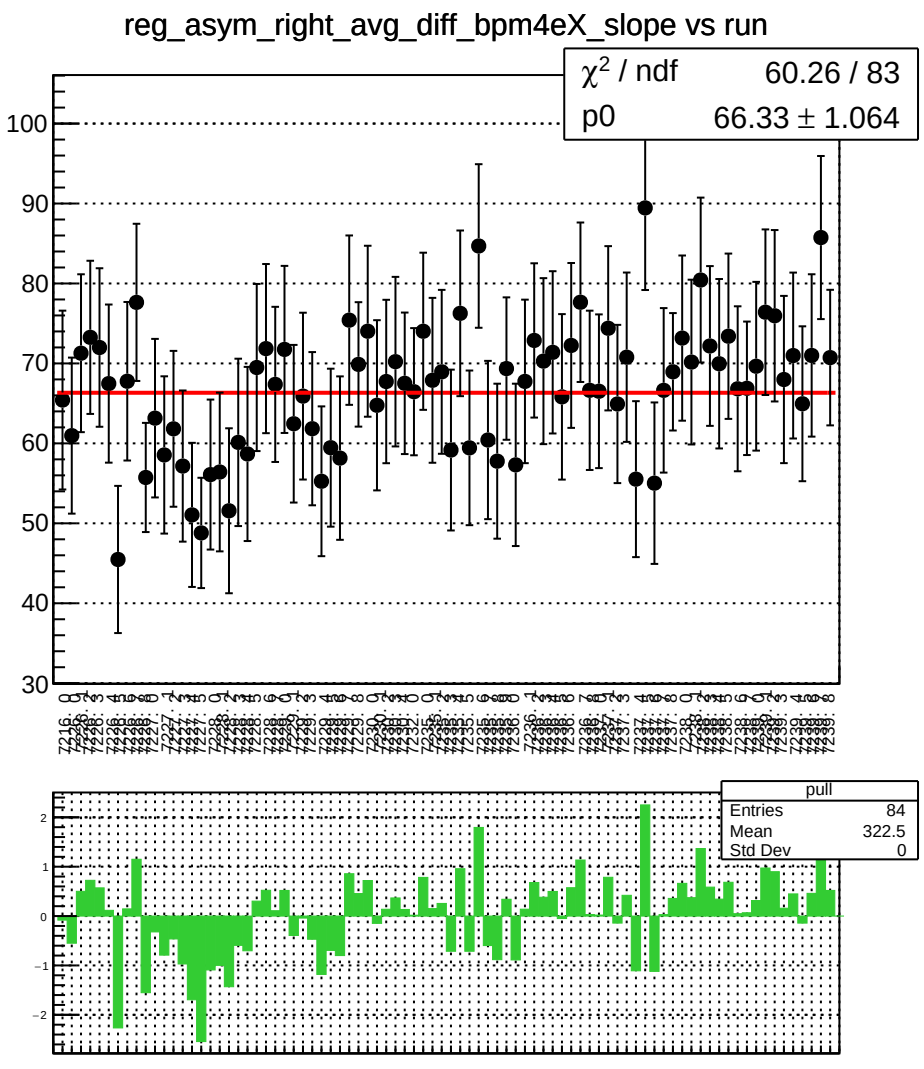

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 103.2 / 83
p0 −18.77 ± 0.03462
−17.5
−18
−18.5
−19
−19.5
pull
Entries 84
Mean 397.2
Std Dev 0
pull1D
Entries 84
Mean −0.04523
Std Dev 1.107

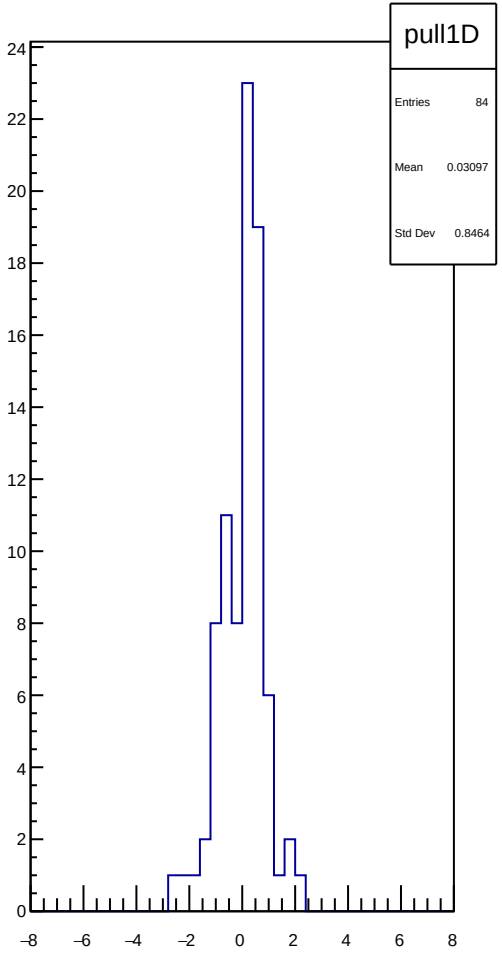

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 56.68 / 83
p0 −36.47 ± 1.043
pull
Entries 84
Mean 336.3
Std Dev 0

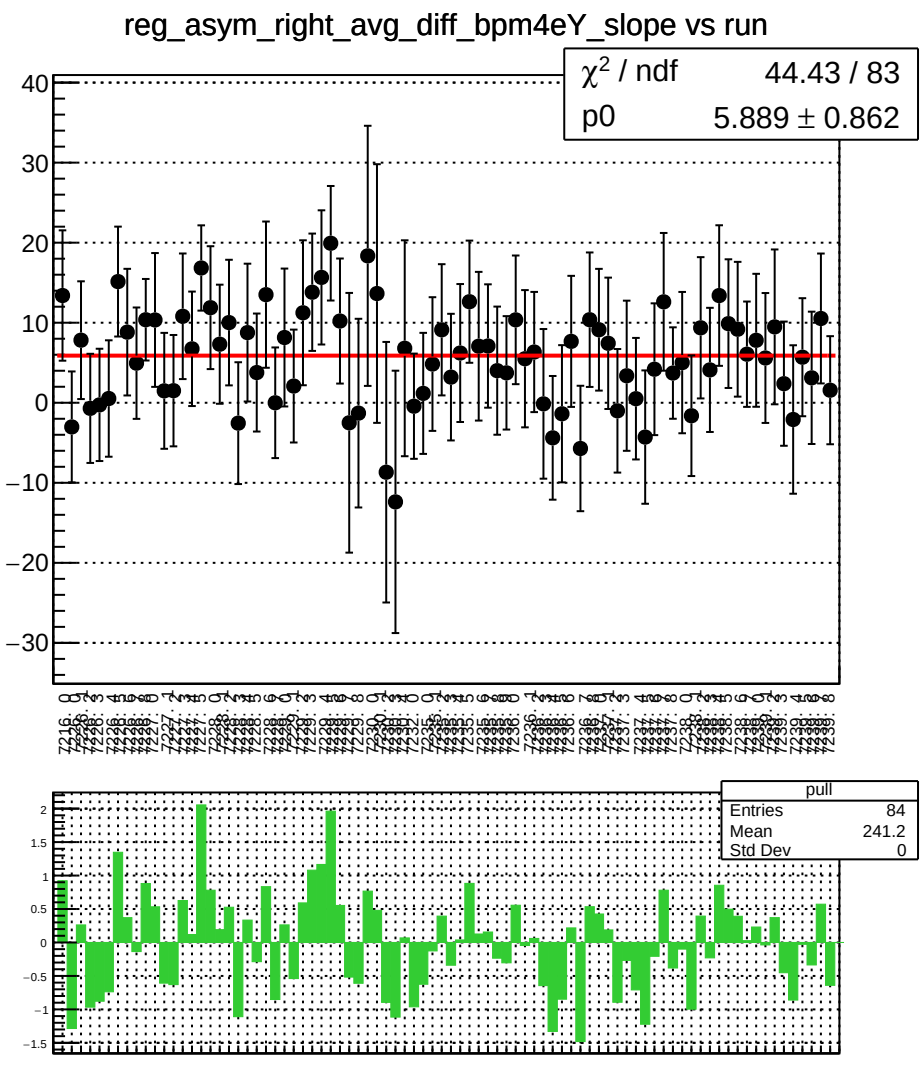

pull1D
Entries 84
Mean −0.02485
Std Dev 0.821

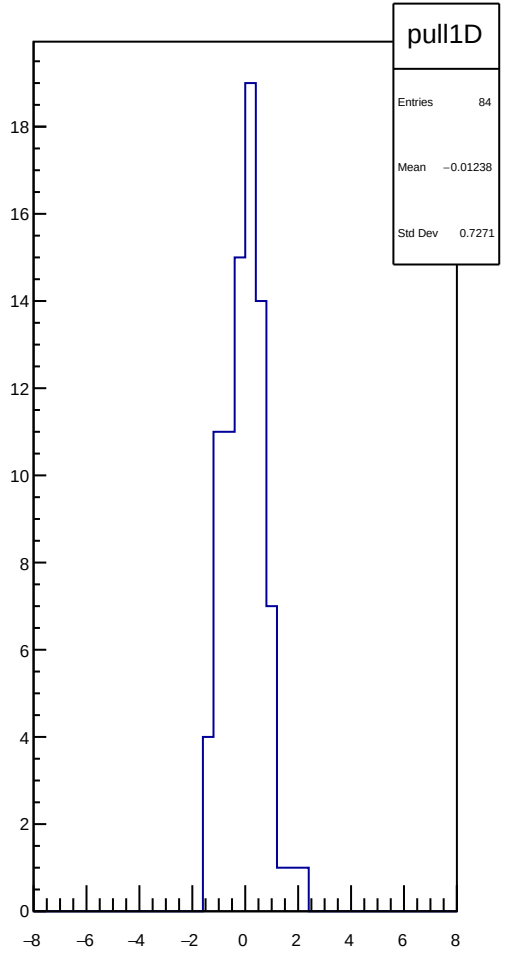

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 43.37 / 83
p0 2.626 ± 0.7857
pull
Entries 84
Mean 320.9
Std Dev 0

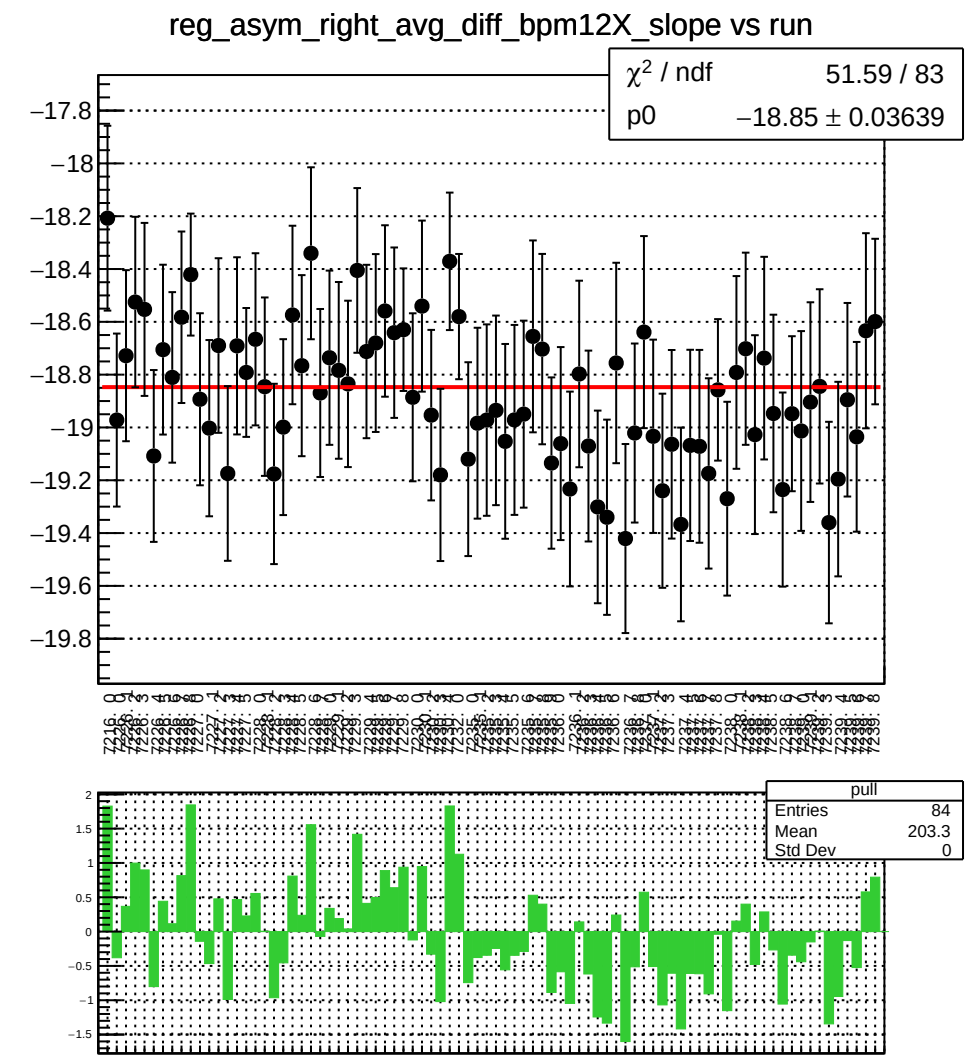

pull1D
Entries 84
Mean 0.01125
Std Dev 0.7184

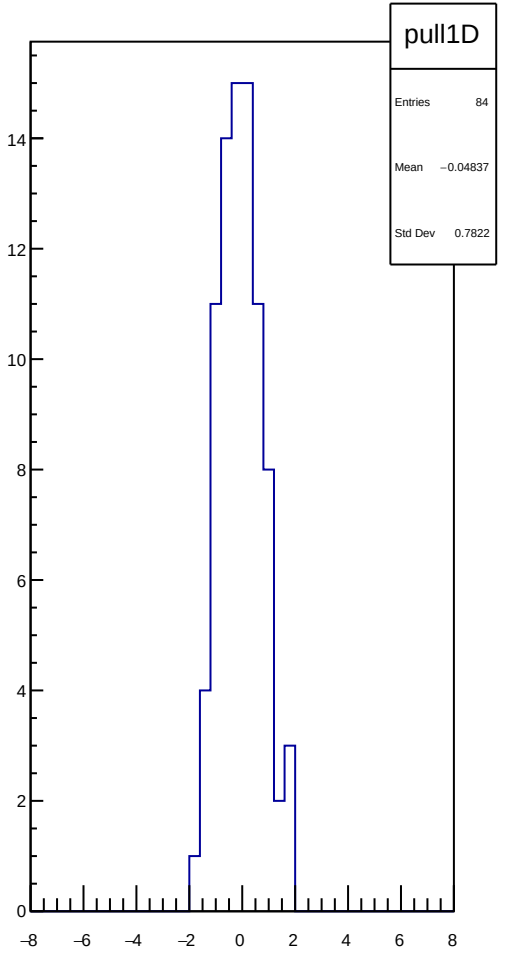

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 60.26 / 83
p0 66.33 ± 1.064
pull
Entries 84
Mean 322.5
Std Dev 0

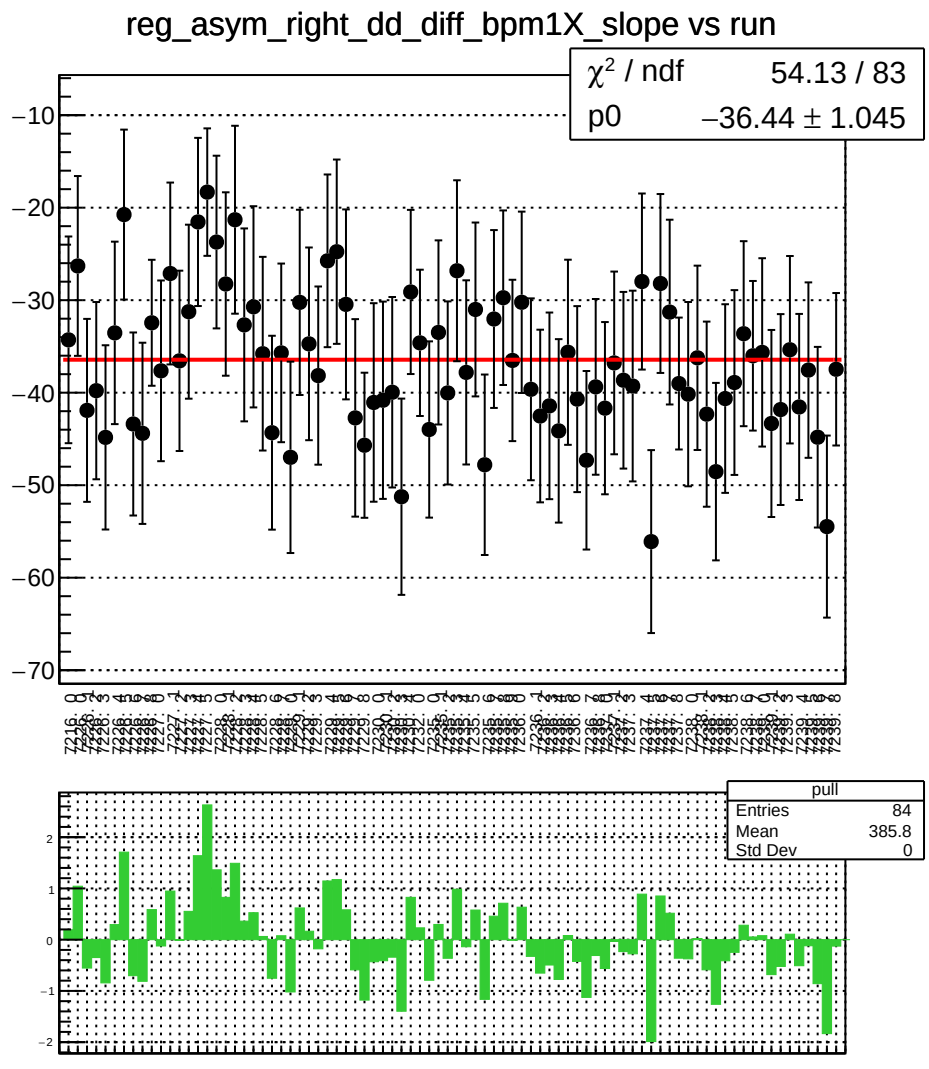

pull1D
Entries 84
Mean 0.03097
Std Dev 0.8464

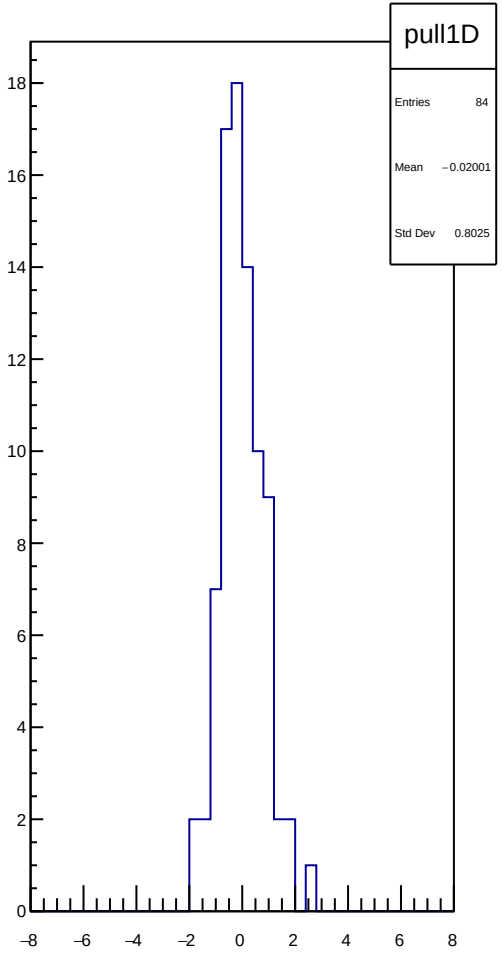

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 44.43 / 83
p0 5.889 ± 0.862
pull
Entries 84
Mean 241.2
Std Dev 0

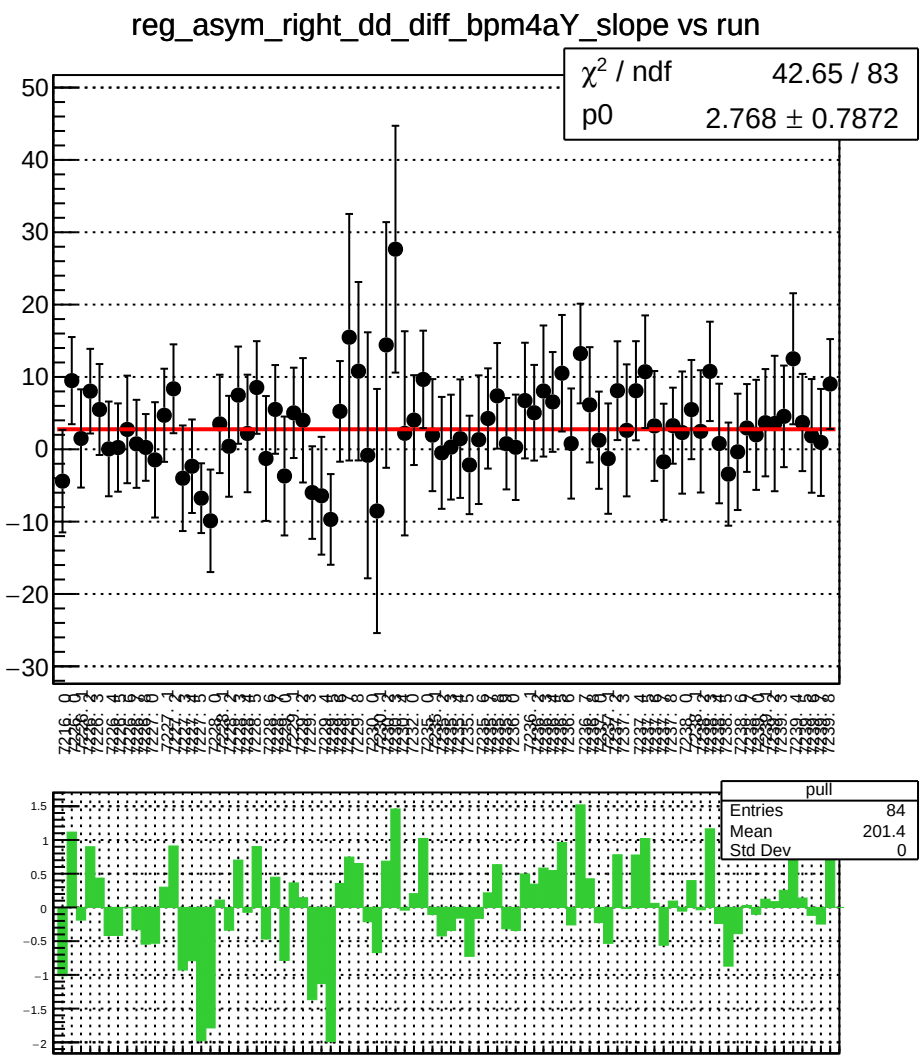

pull1D
Entries 84
Mean −0.01238
Std Dev 0.7271

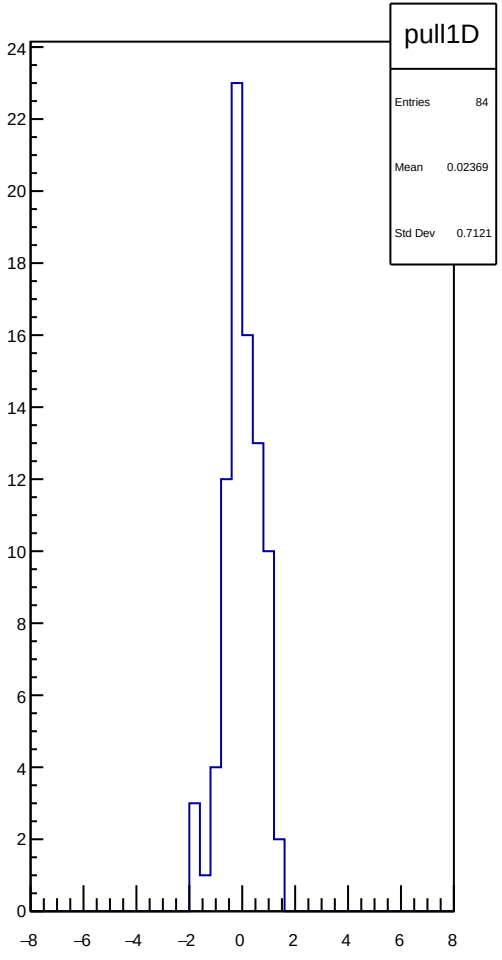

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 51.59 / 83
p0 −18.85 ± 0.03639
pull
Entries 84
Mean 203.3
Std Dev 0

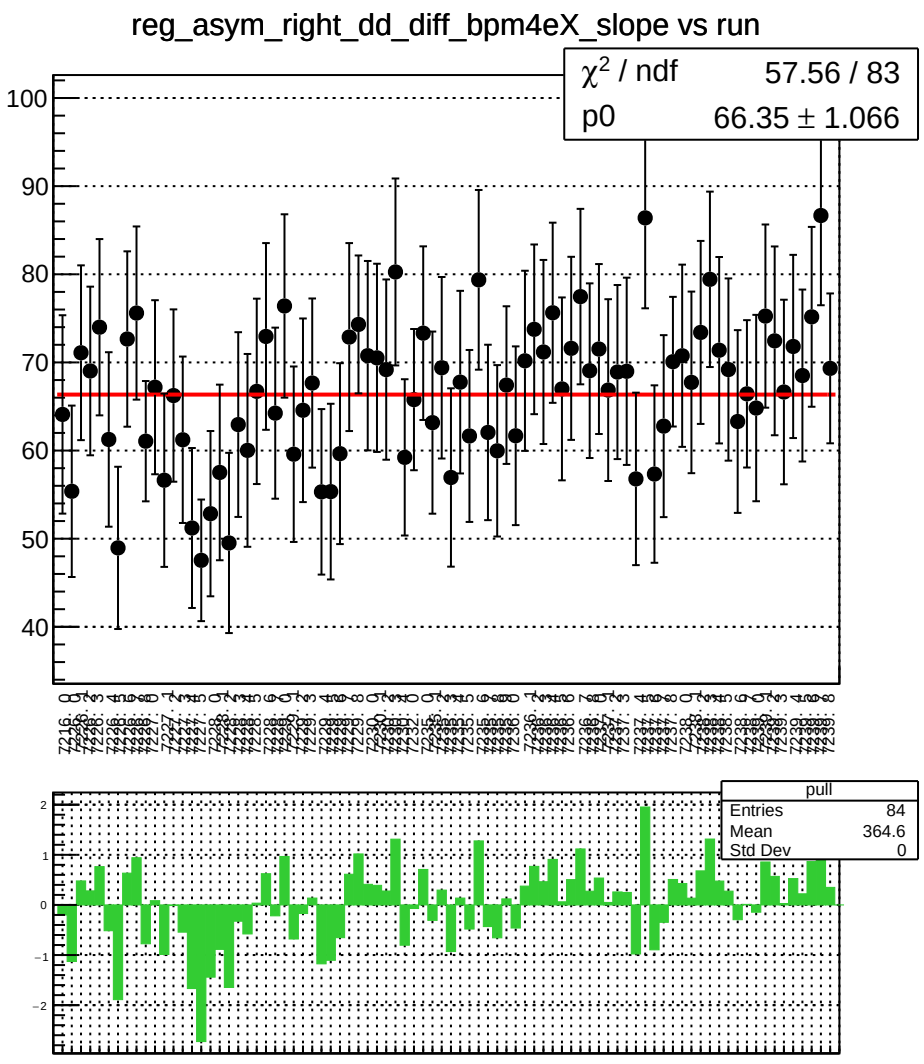

pull1D
Entries 84
Mean −0.04837
Std Dev 0.7822

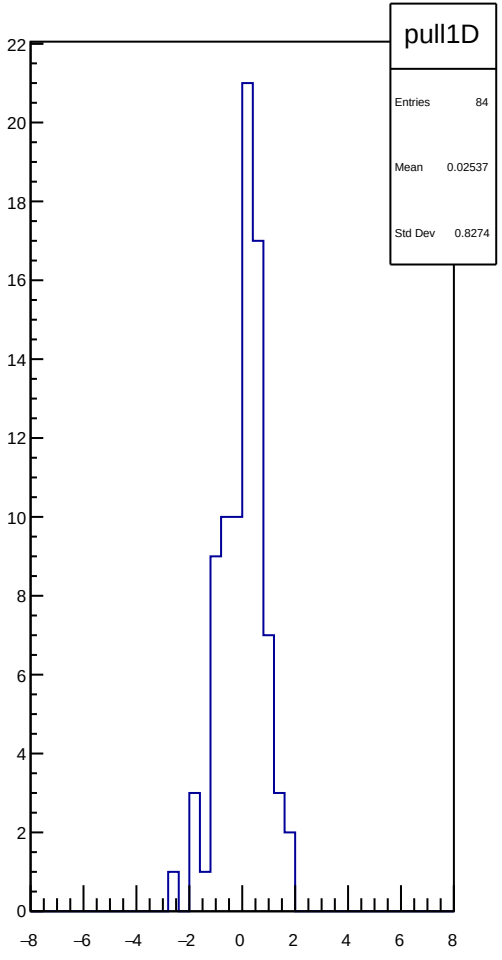

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 54.13 / 83
p0 −36.44 ± 1.045
pull
Entries 84
Mean 385.8
Std Dev 0

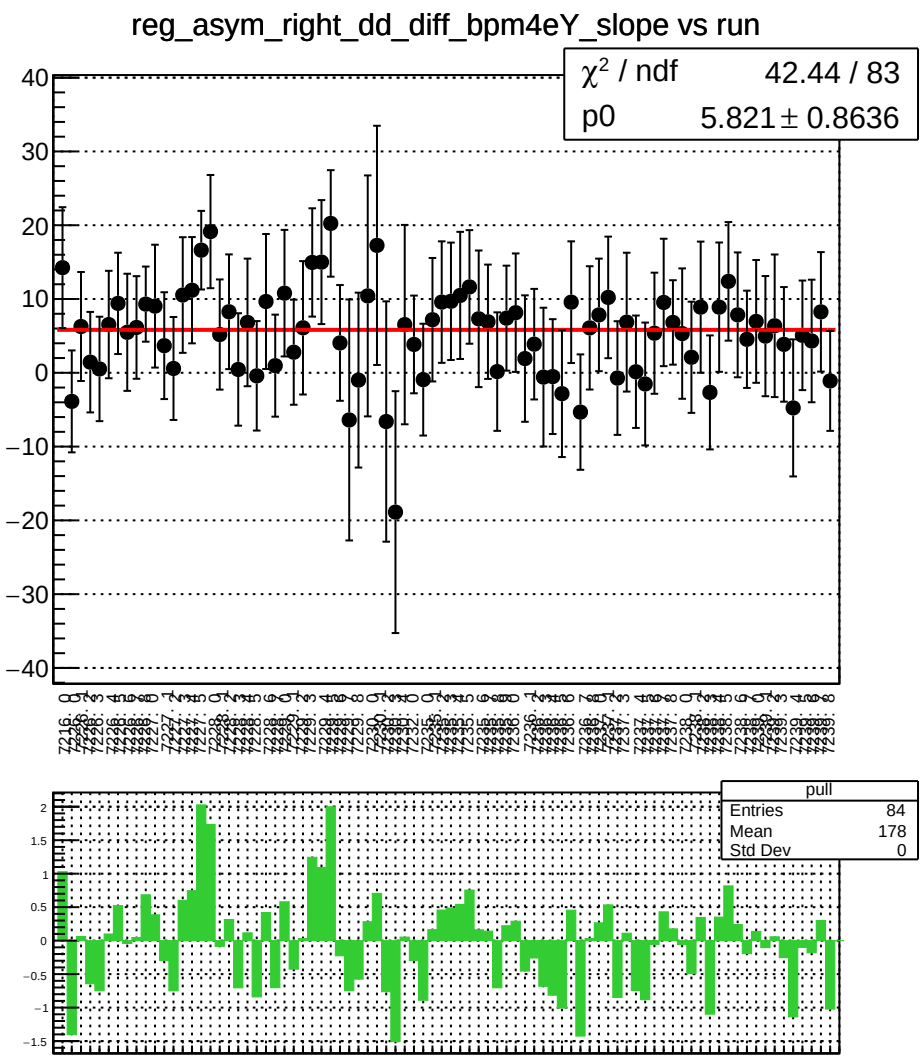

pull1D
Entries 84
Mean −0.02001
Std Dev 0.8025

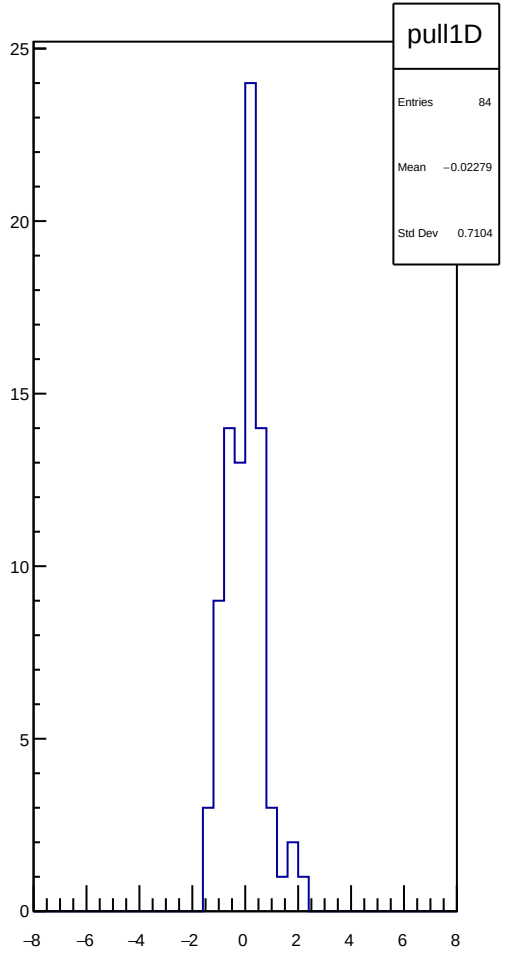

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 42.65 / 83
p0 2.768 ± 0.7872
pull
Entries 84
Mean 201.4
Std Dev 0

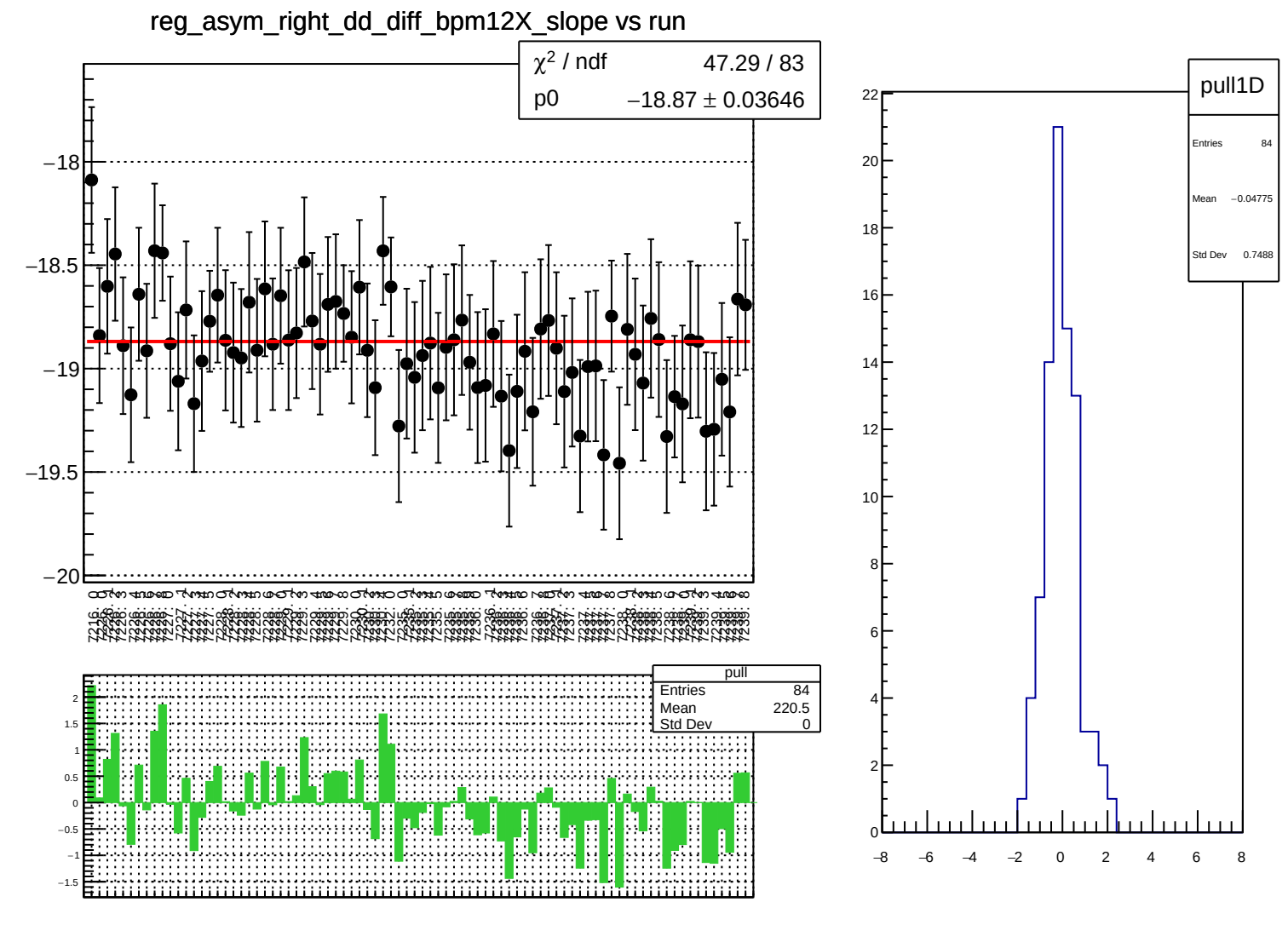

pull1D
Entries 84
Mean 0.02369
Std Dev 0.7121

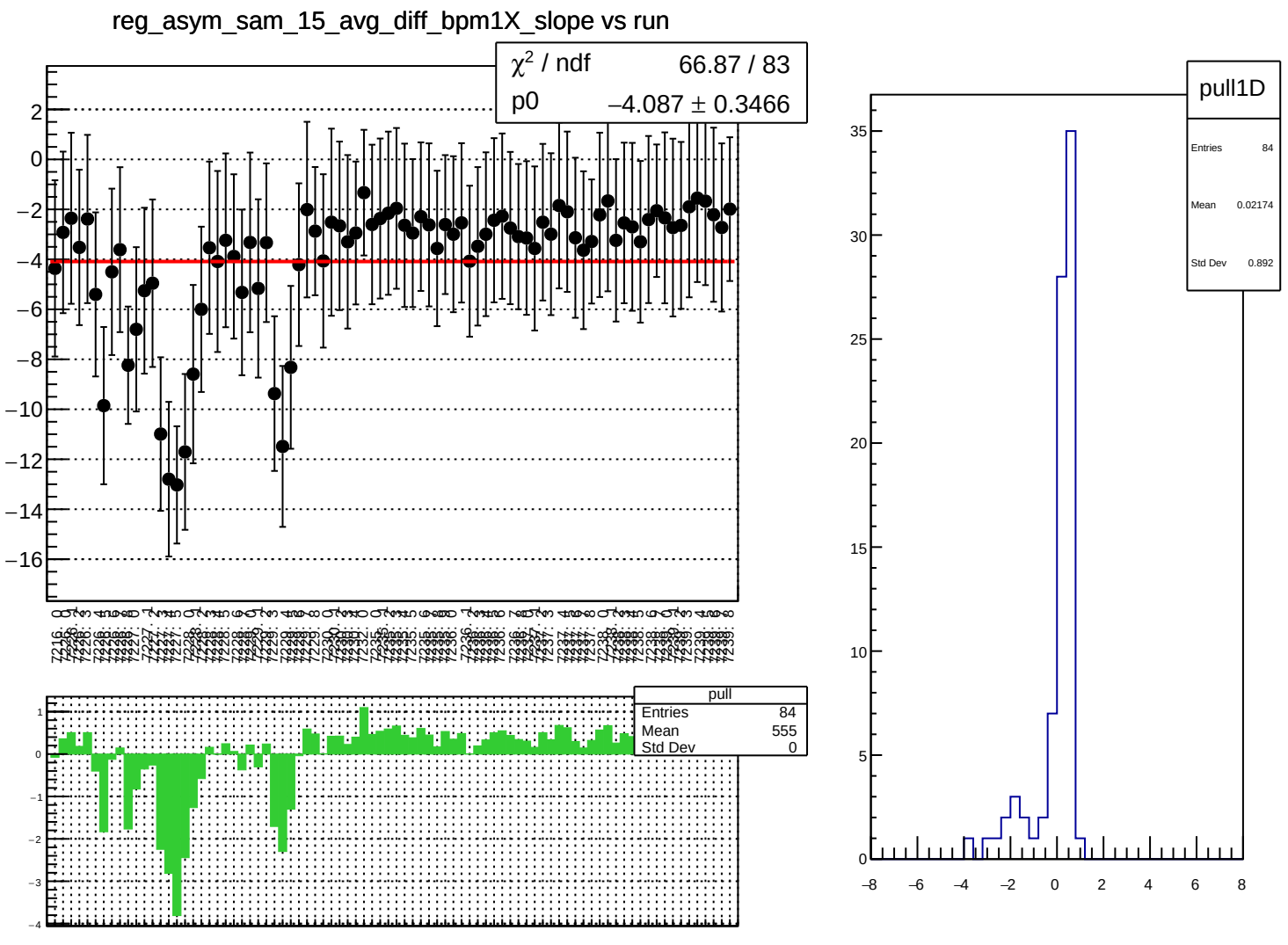

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 57.56 / 83
p0 66.35 ± 1.066
pull
Entries 84
Mean 364.6
Std Dev 0

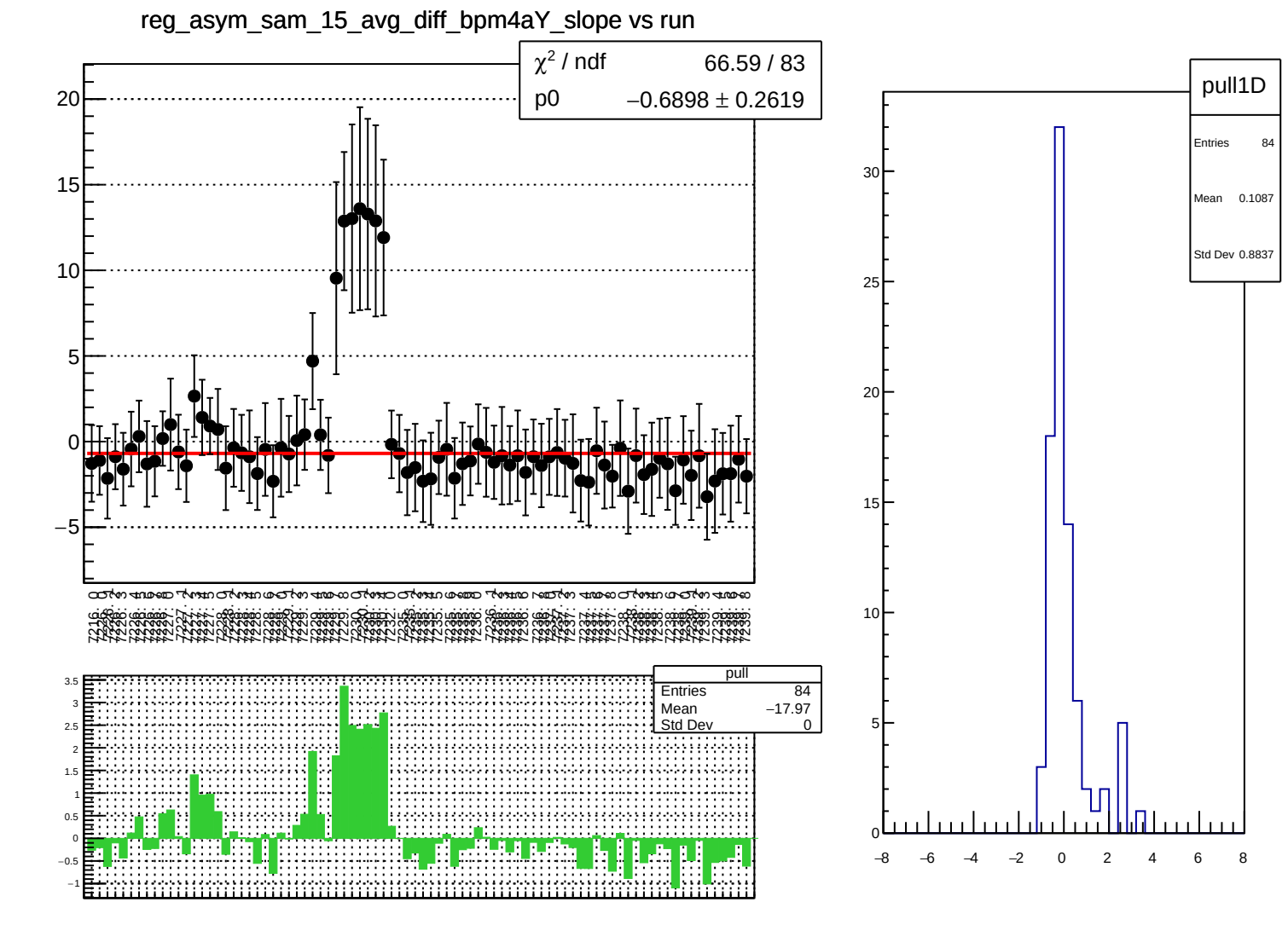

pull1D
Entries 84
Mean 0.02537
Std Dev 0.8274

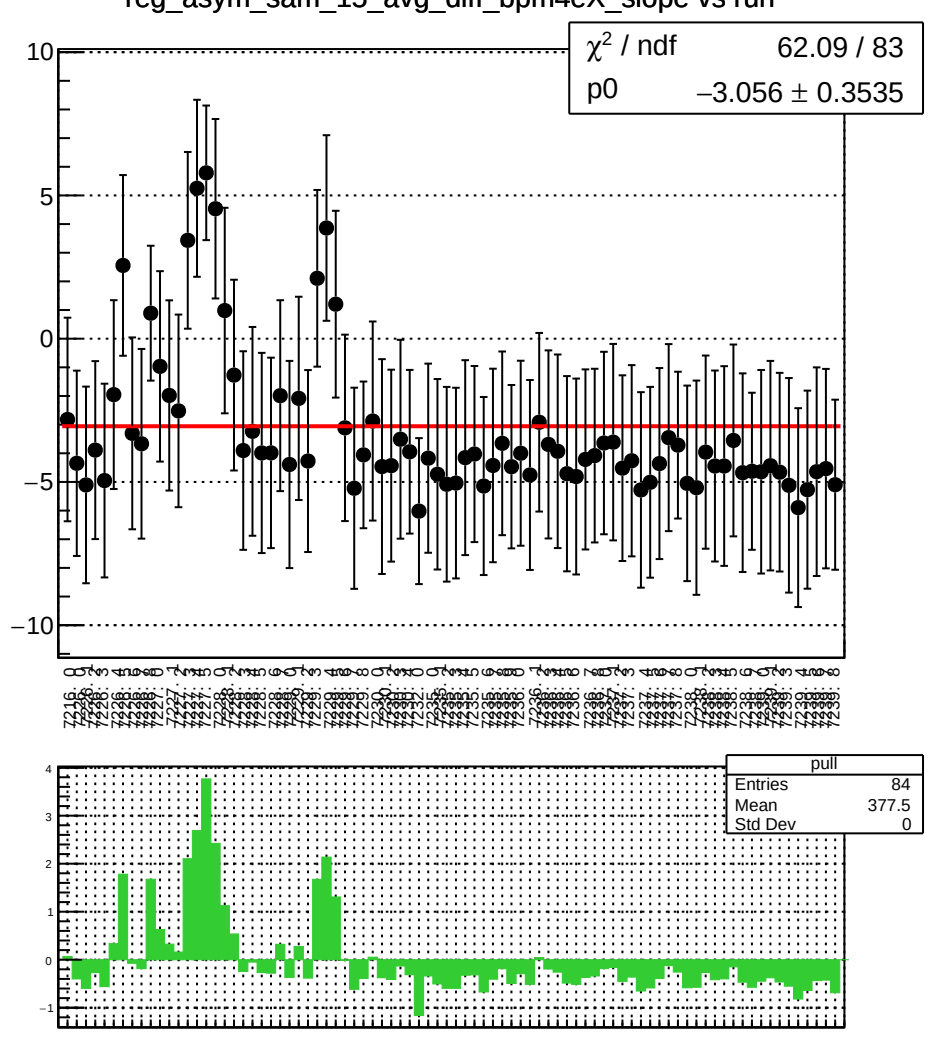

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 42.44 / 83
p0 5.821 ± 0.8636
pull
Entries 84
Mean 178
Std Dev 0

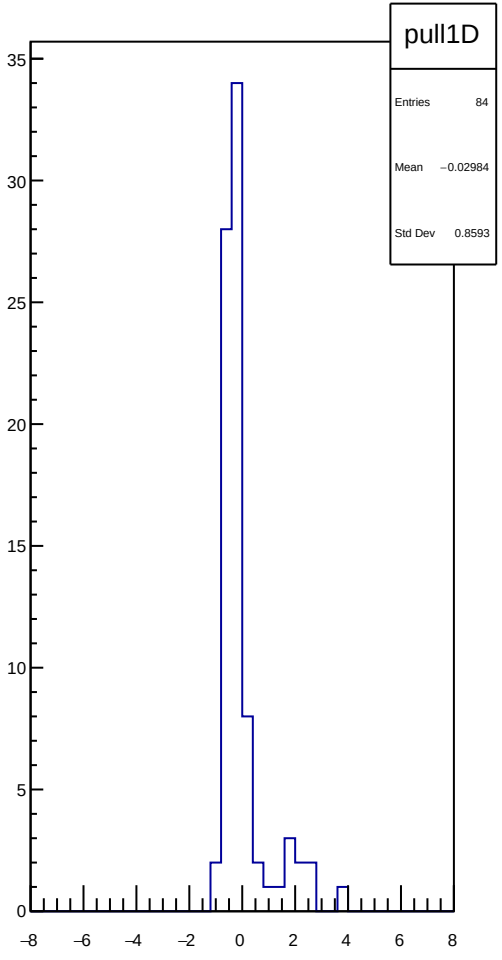

pull1D
Entries 84
Mean −0.02279
Std Dev 0.7104

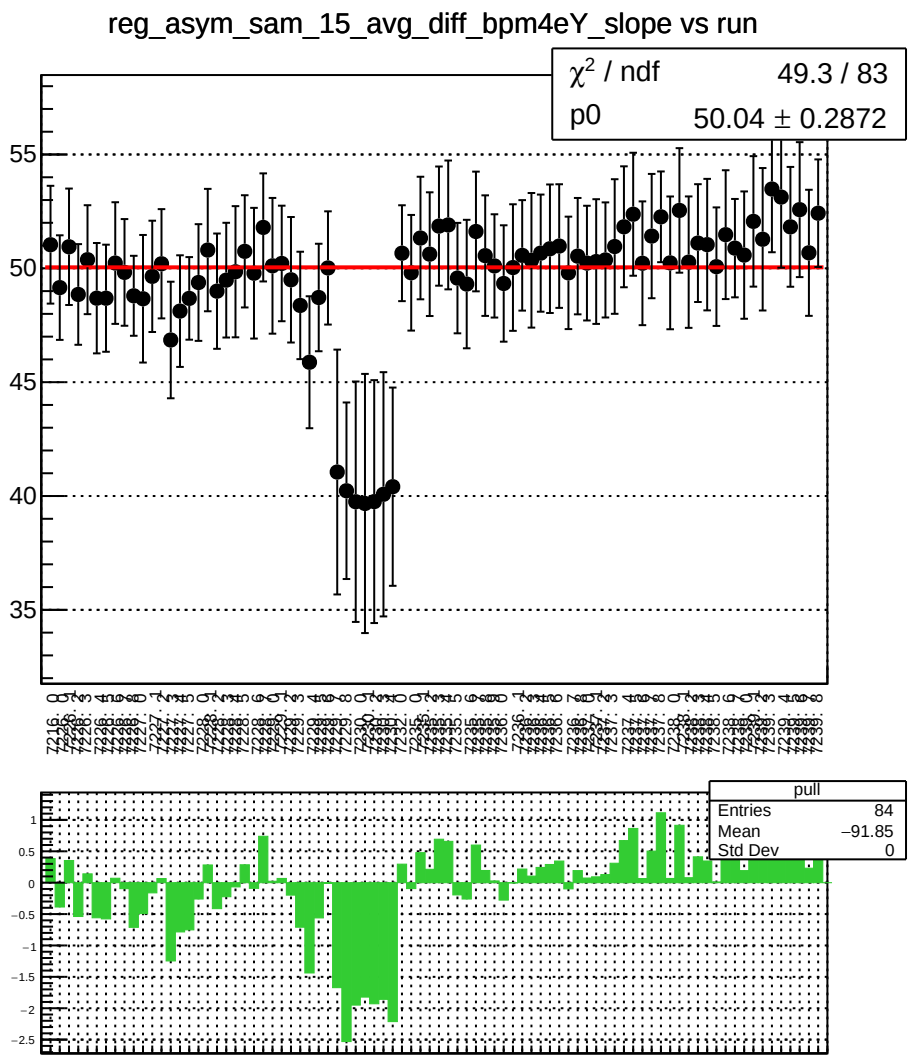

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 47.29 / 83
p0 −18.87 ± 0.03646
pull
Entries 84
Mean 220.5
Std Dev 0
pull1D
Entries 84
Mean −0.04775
Std Dev 0.7488

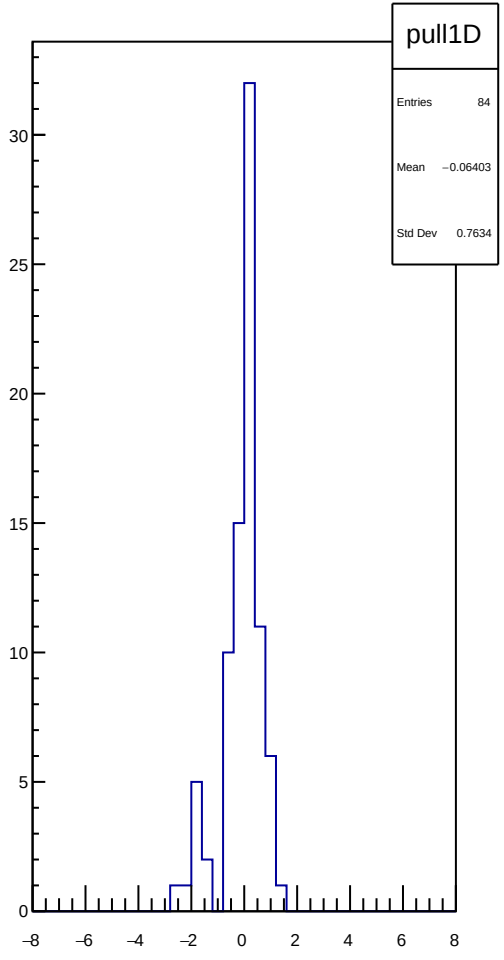

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 66.87 / 83
p0 −4.087 ± 0.3466
pull
Entries 84
Mean 555
Std Dev 0
pull1D
Entries 84
Mean 0.02174
Std Dev 0.892

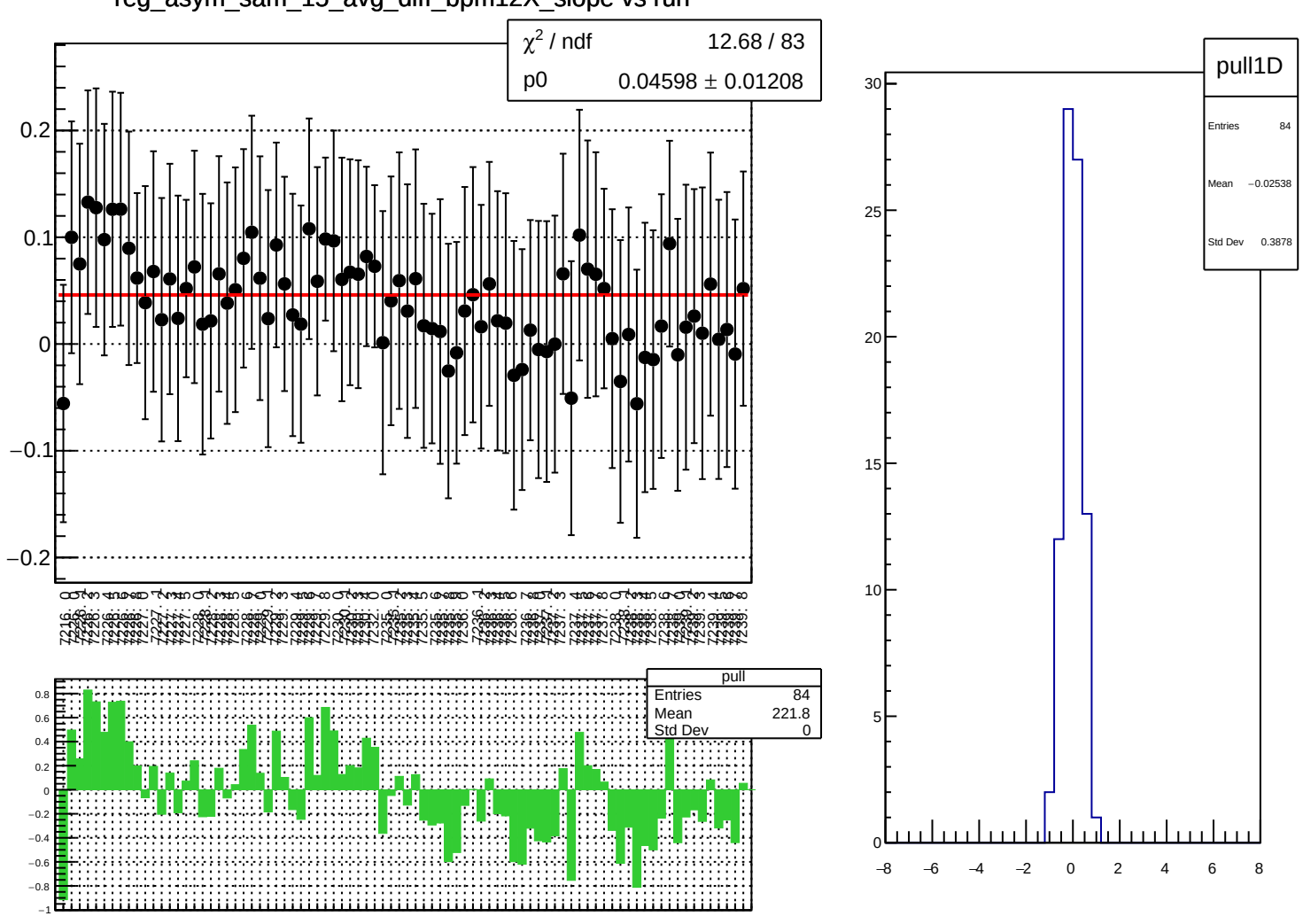

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 66.59 / 83
p0 −0.6898 ± 0.2619
pull
Entries 84
Mean −17.97
Std Dev 0
pull1D
Entries 84
Mean 0.1087
Std Dev 0.8837

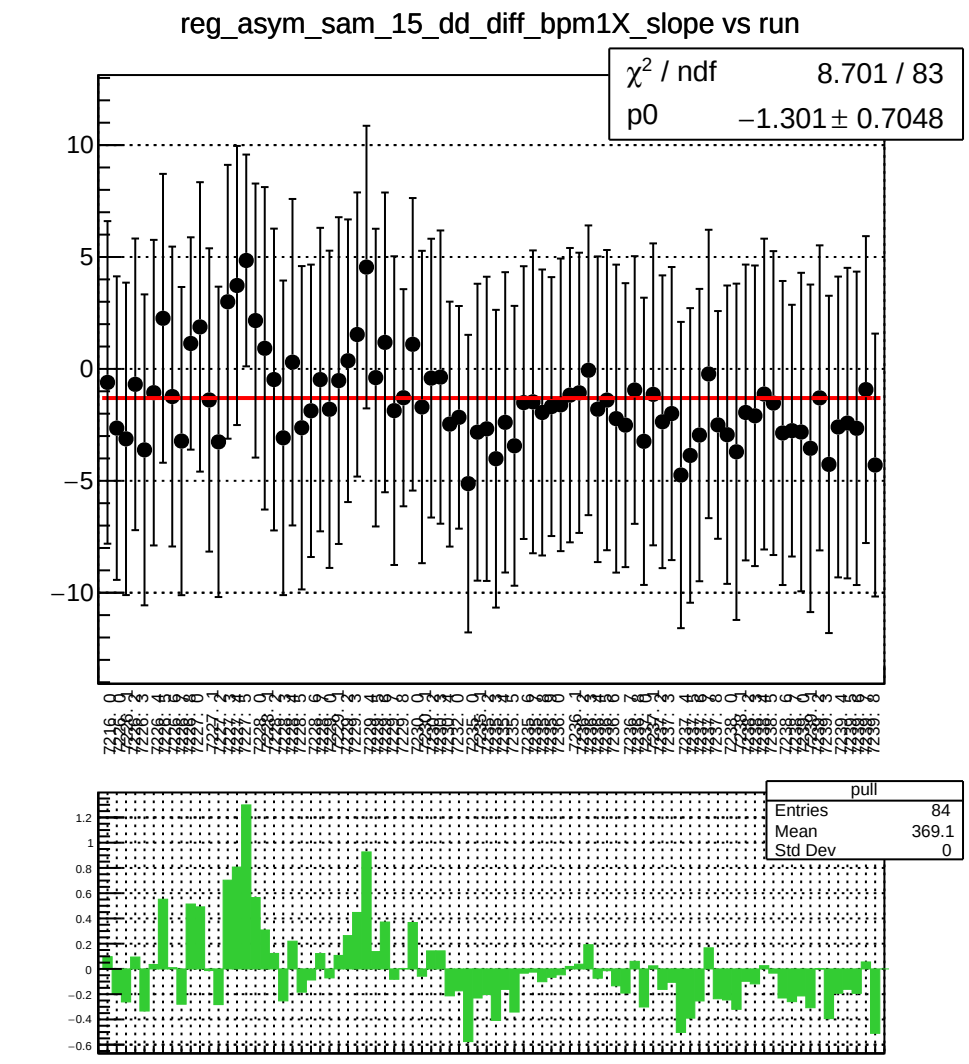

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 62.09 / 83
p0 −3.056 ± 0.3535
pull
Entries 84
Mean 377.5
Std Dev 0

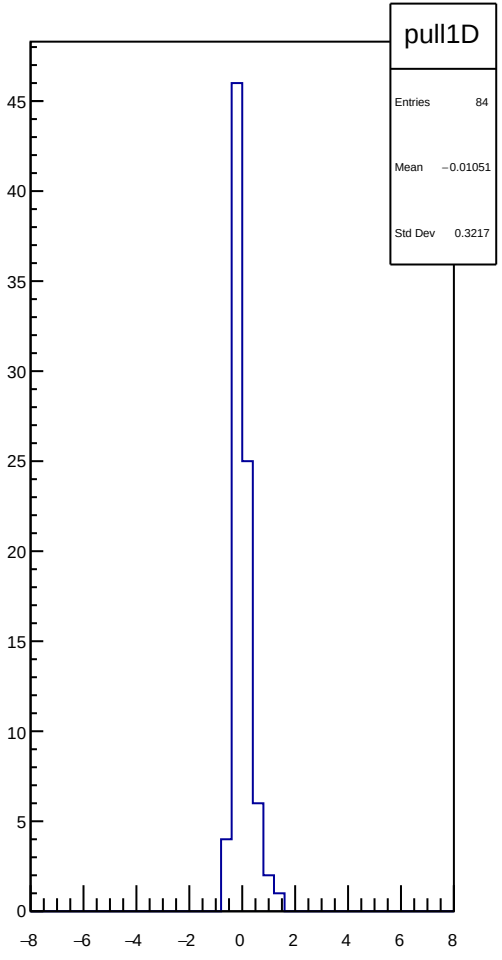

pull1D
Entries 84
Mean −0.02984
Std Dev 0.8593

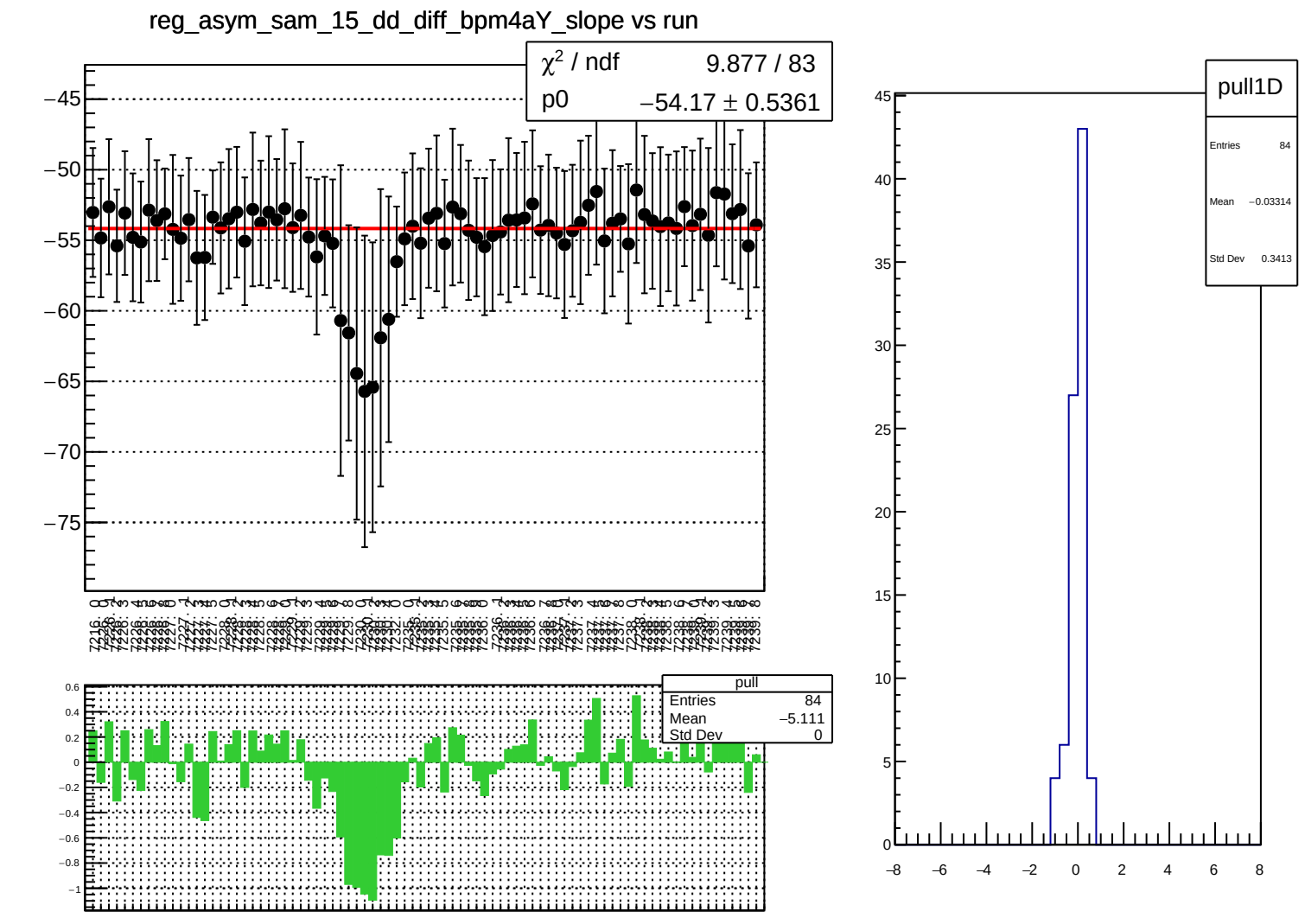

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 49.3 / 83
p0 50.04 ± 0.2872
pull
Entries 84
Mean −91.85
Std Dev 0

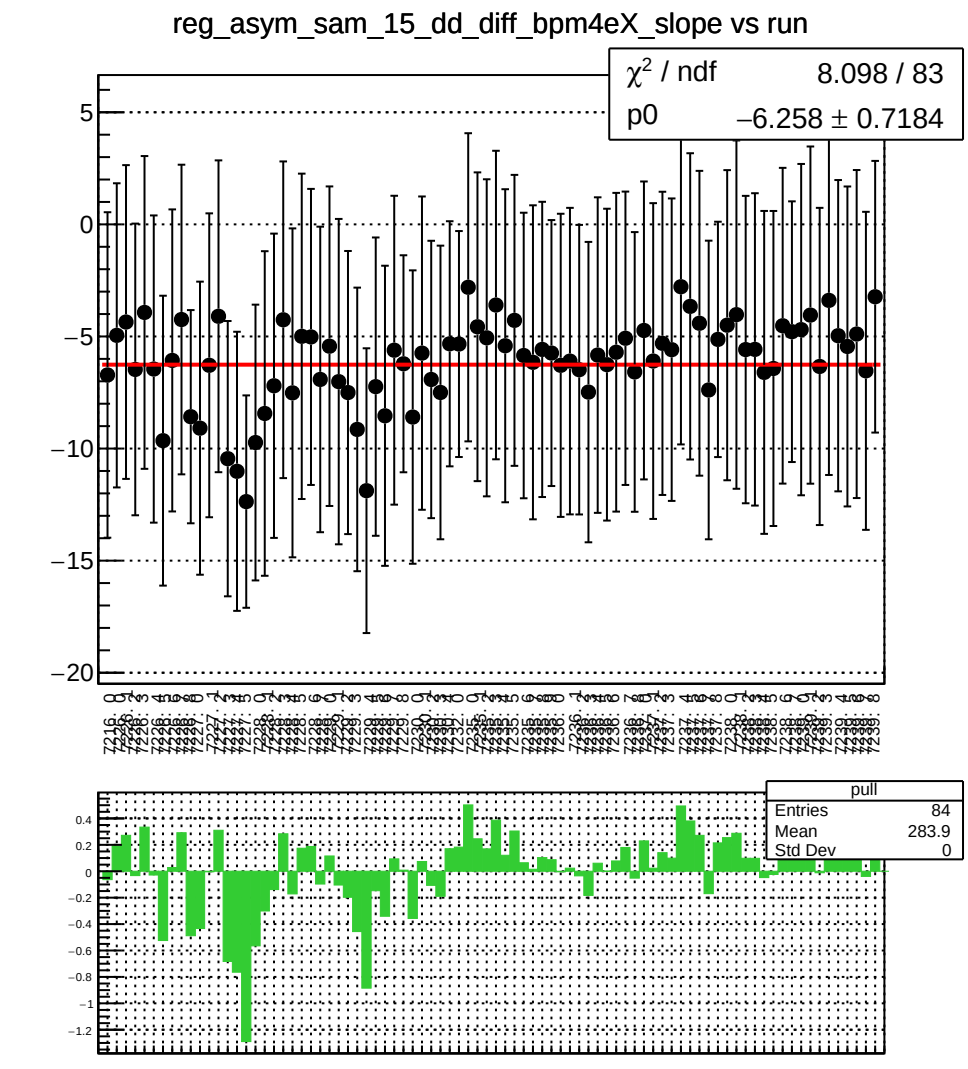

pull1D
Entries 84
Mean −0.06403
Std Dev 0.7634

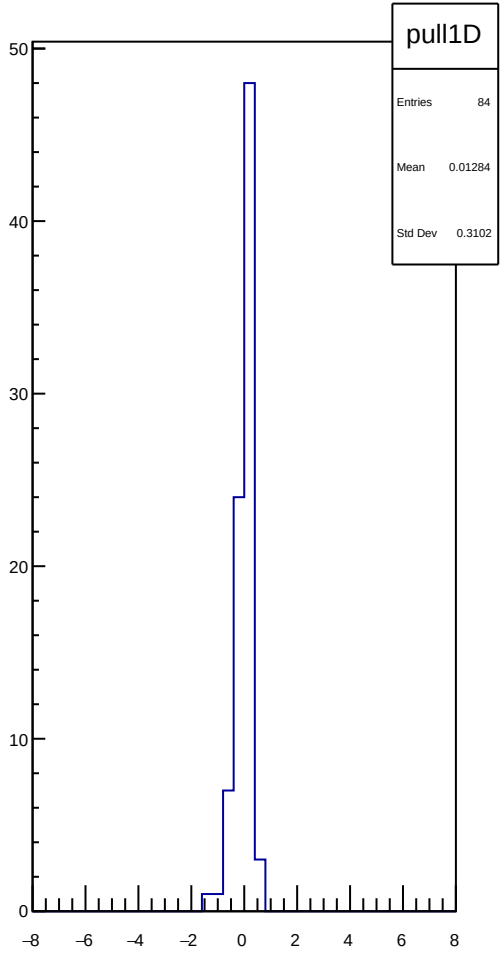

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 12.68 / 83
p0 0.04598 ± 0.01208
pull
Entries 84
Mean 221.8
Std Dev 0
pull1D
Entries 84
Mean −0.02538
Std Dev 0.3878

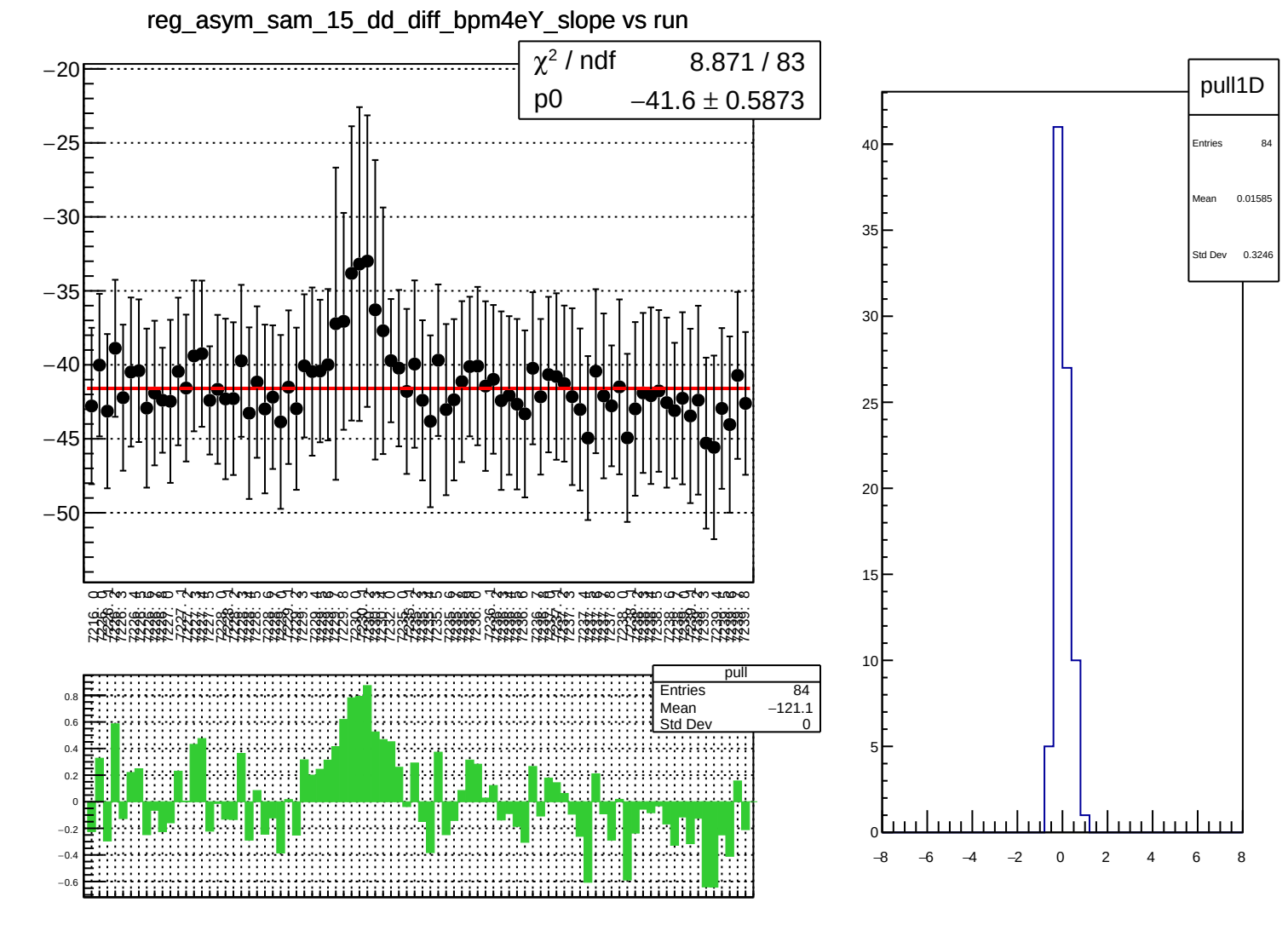

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 8.701 / 83
p0 −1.301 ± 0.7048
pull
Entries 84
Mean 369.1
Std Dev 0

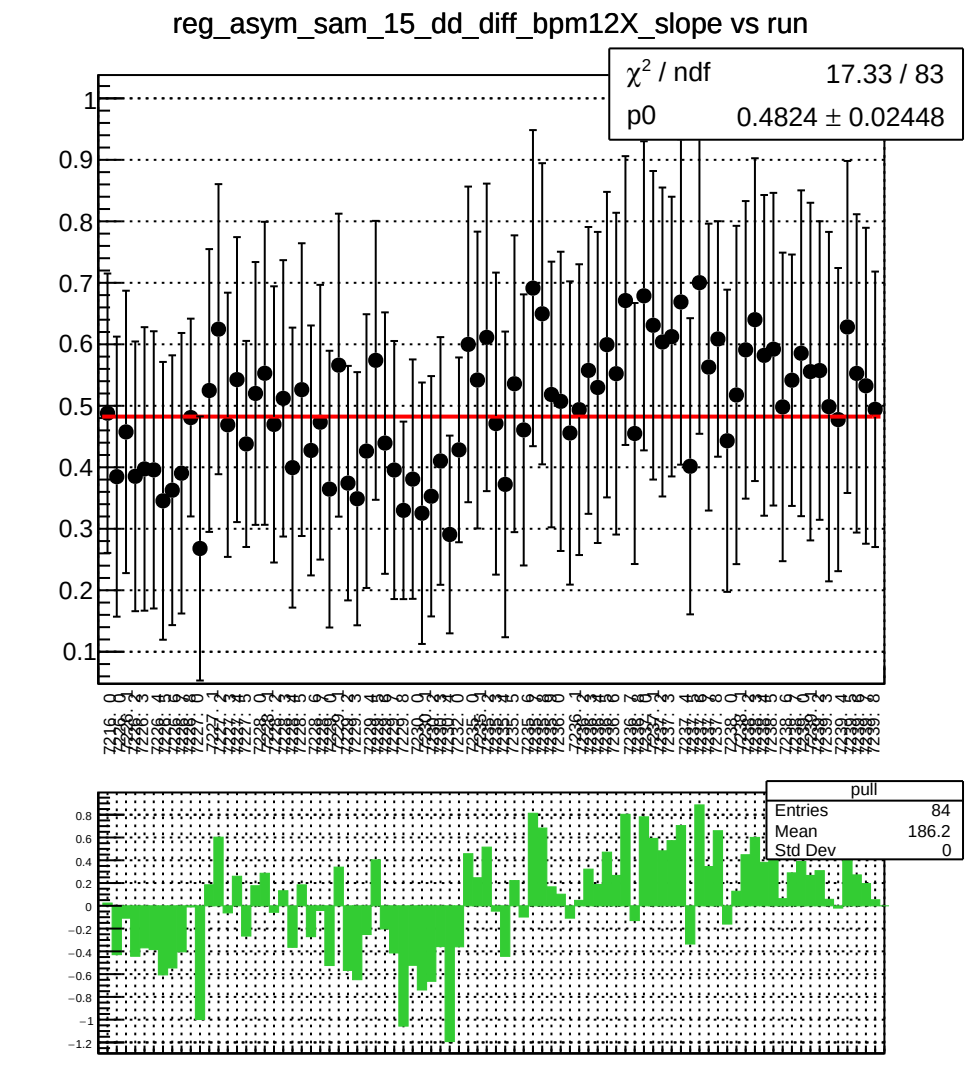

pull1D
Entries 84
Mean −0.01051
Std Dev 0.3217

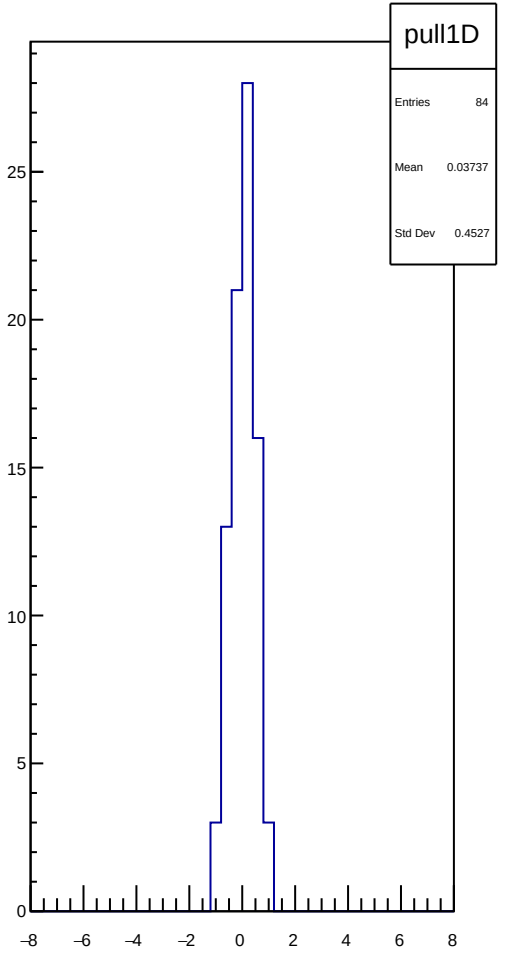

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.877 / 83
p0 −54.17 ± 0.5361
pull
Entries 84
Mean −5.111
Std Dev 0
pull1D
Entries 84
Mean −0.03314
Std Dev 0.3413

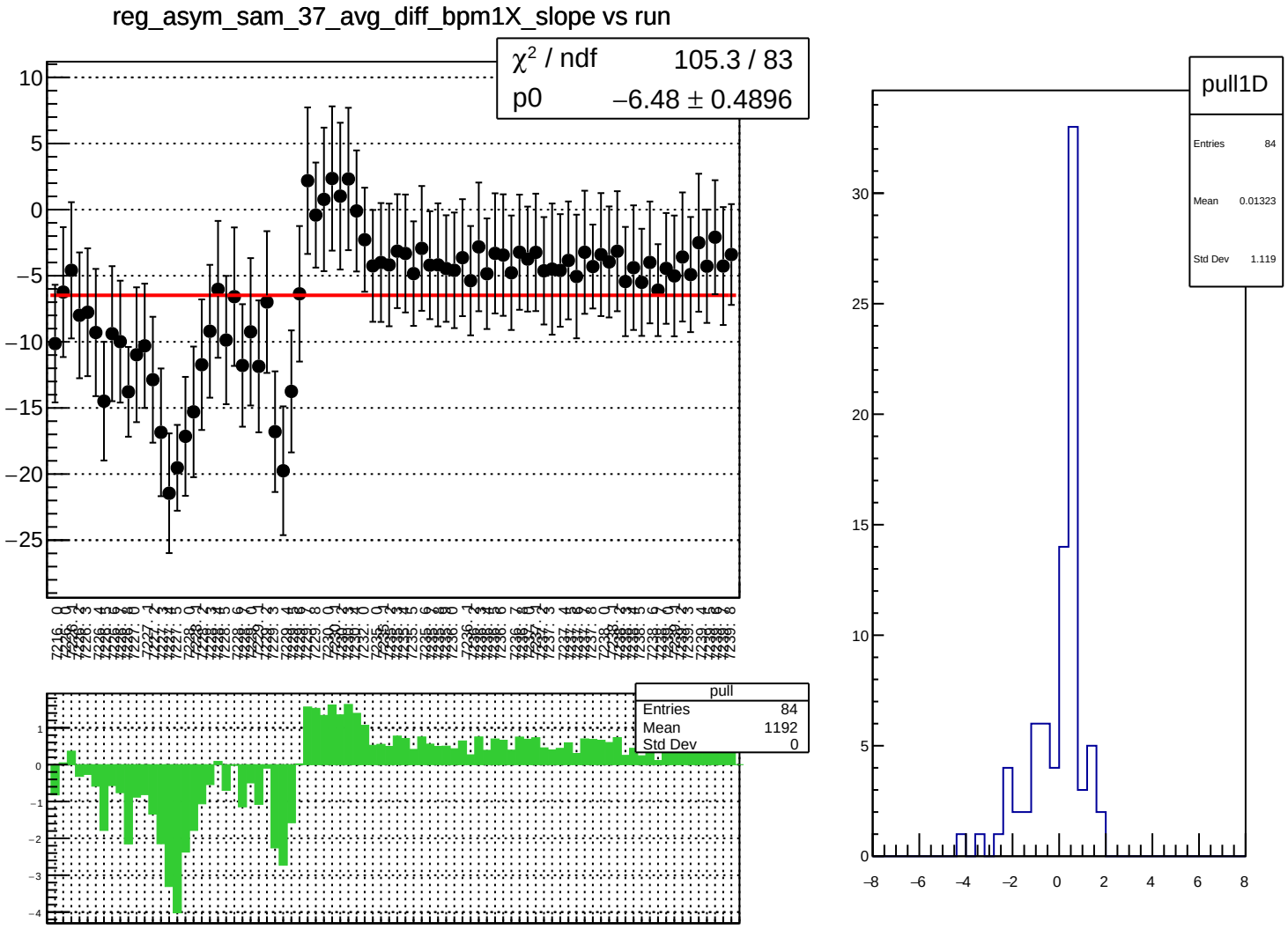

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.098 / 83
p0 −6.258 ± 0.7184
pull
Entries 84
Mean 283.9
Std Dev 0

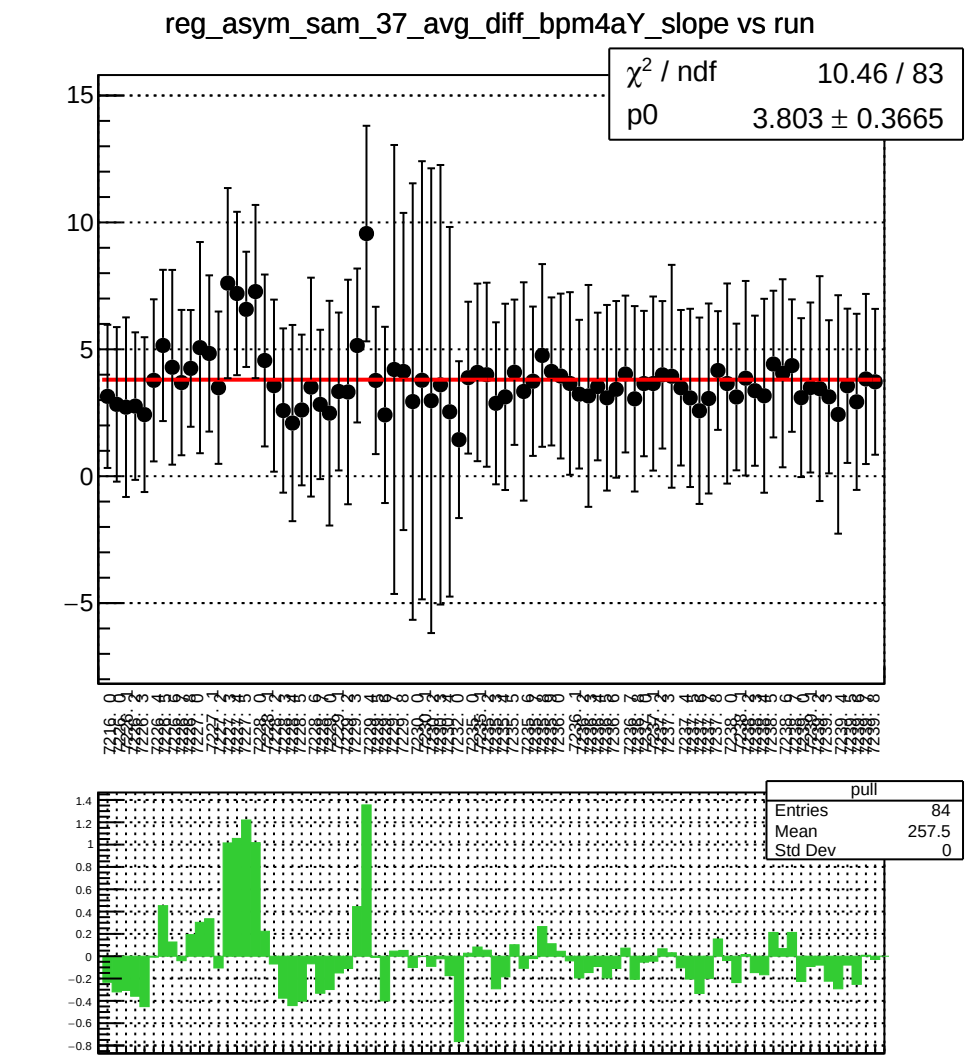

pull1D
Entries 84
Mean 0.01284
Std Dev 0.3102

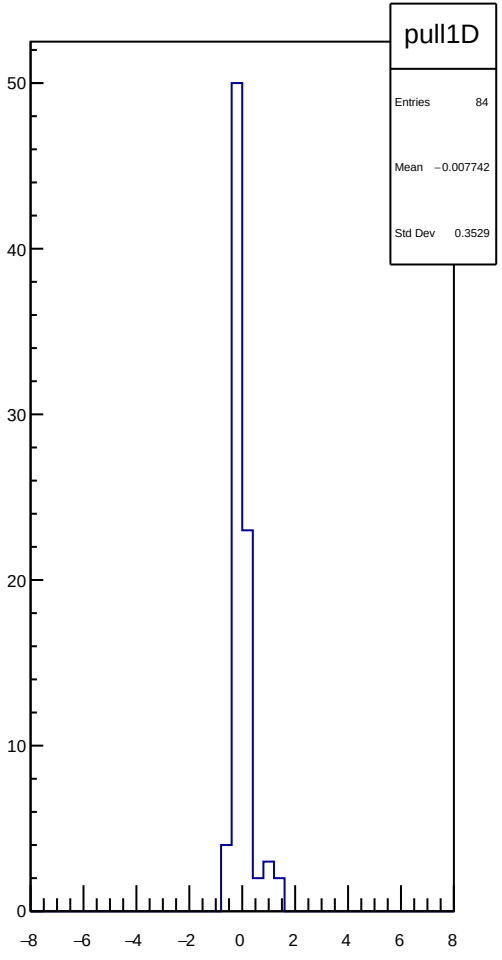

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.871 / 83
p0 −41.6 ± 0.5873
pull
Entries 84
Mean −121.1
Std Dev 0
pull1D
Entries 84
Mean 0.01585
Std Dev 0.3246


reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 17.33 / 83
p0 0.4824 ± 0.02448
pull
Entries 84
Mean 186.2
Std Dev 0

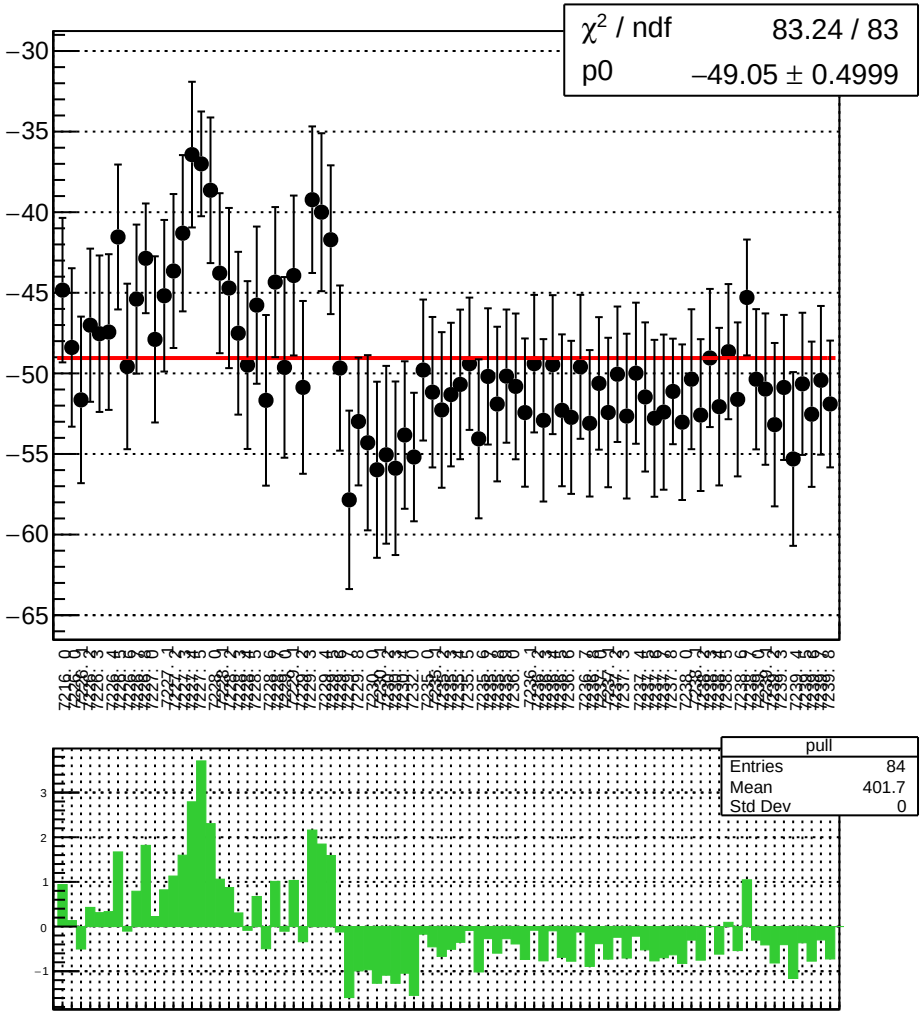

pull1D
Entries 84
Mean 0.03737
Std Dev 0.4527

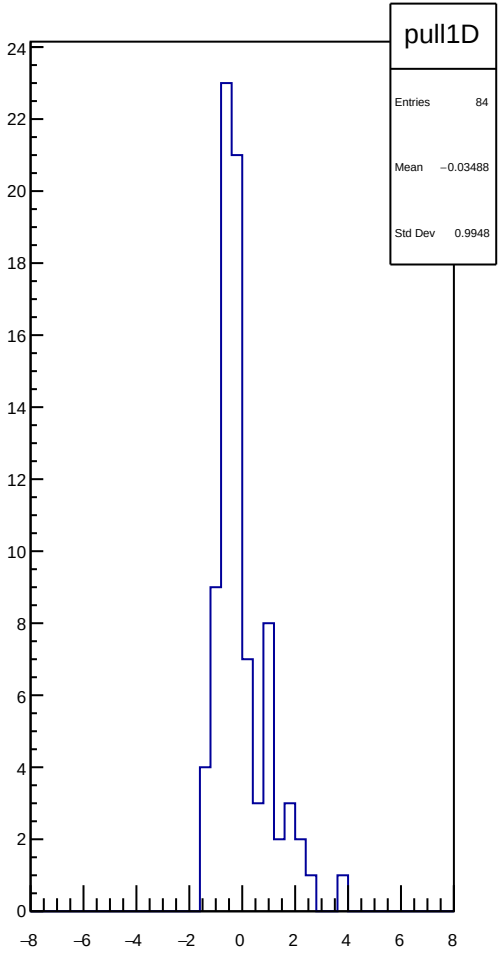

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 105.3 / 83
p0 −6.48 ± 0.4896
pull
Entries 84
Mean 1192
Std Dev 0
pull1D
Entries 84
Mean 0.01323
Std Dev 1.119

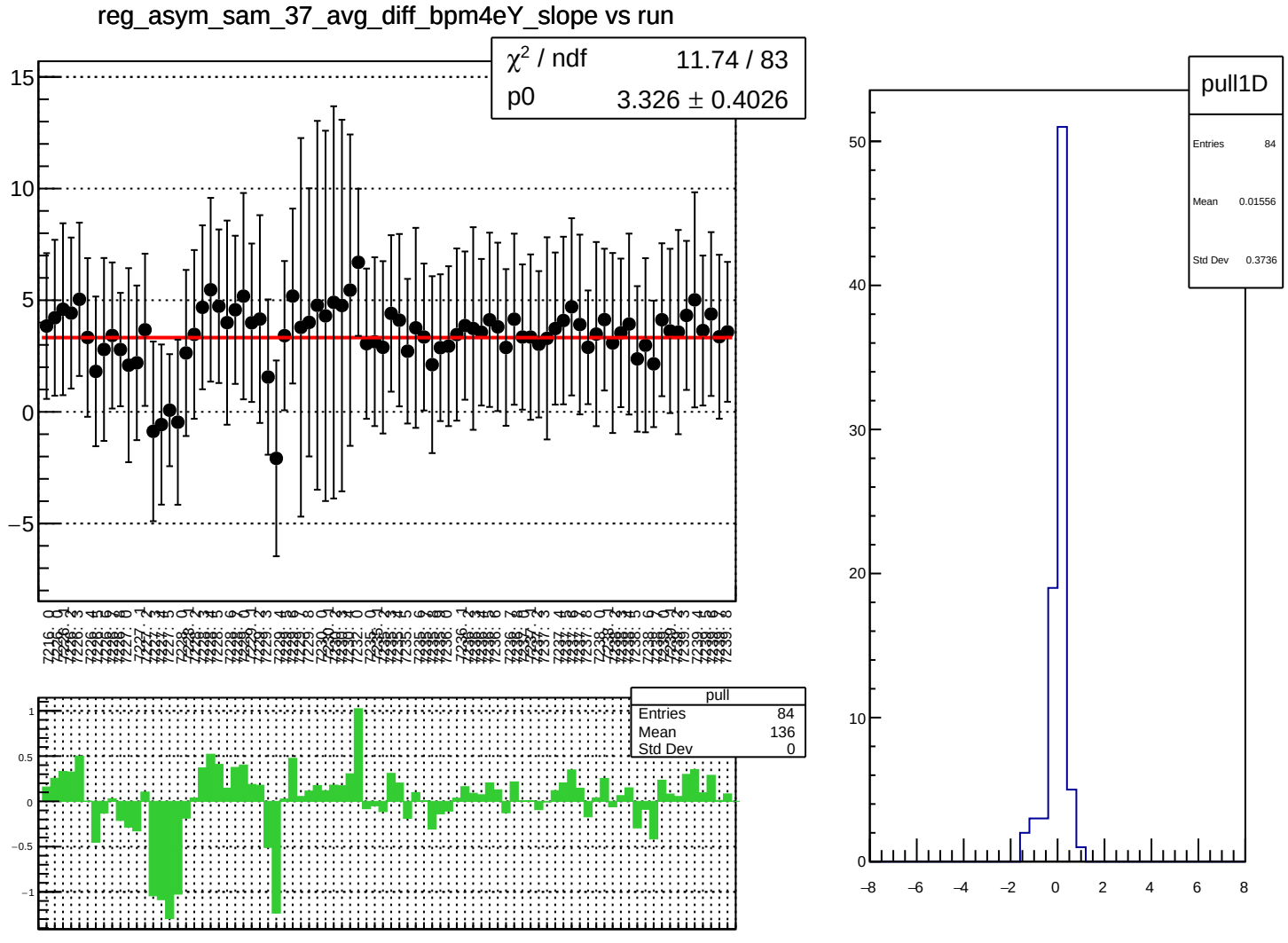

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.46 / 83
p0 3.803 ± 0.3665
pull
Entries 84
Mean 257.5
Std Dev 0

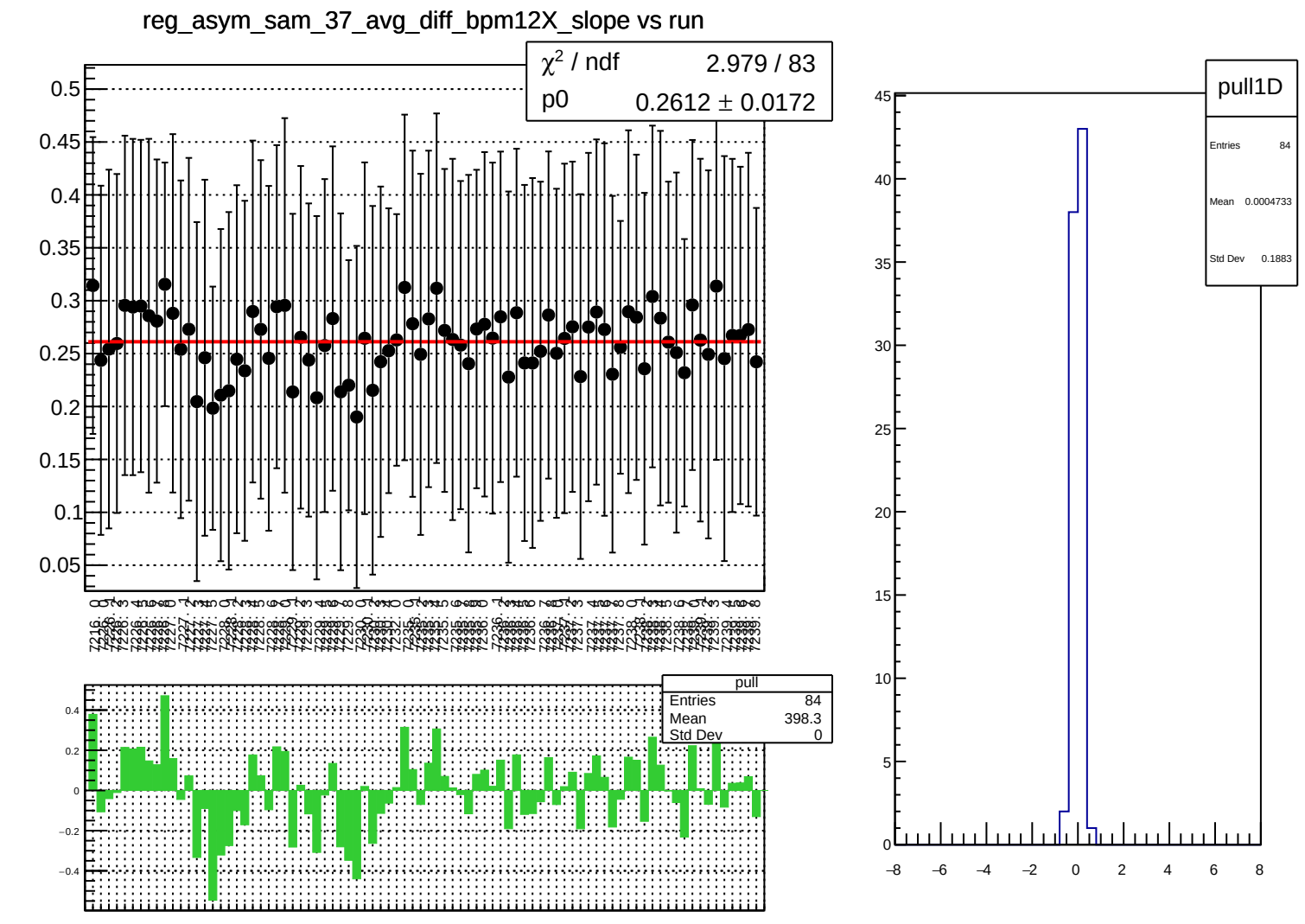

pull1D
Entries 84
Mean −0.007742
Std Dev 0.3529

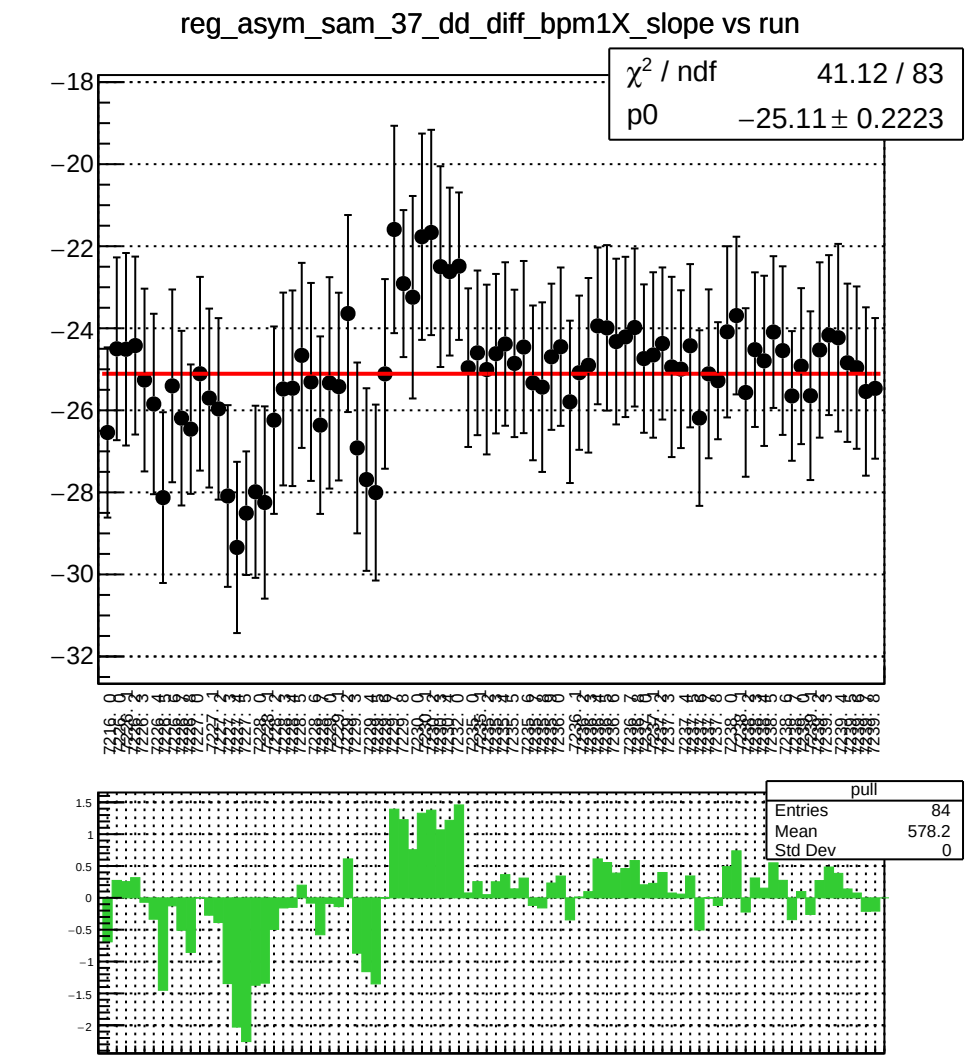
reg_asym_sam_37_avg_diff_bpm4eX_slope vs run

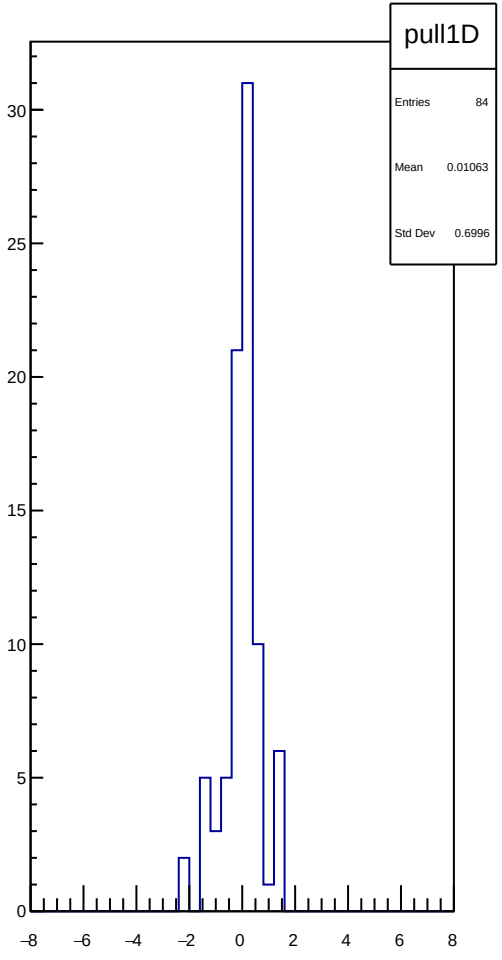


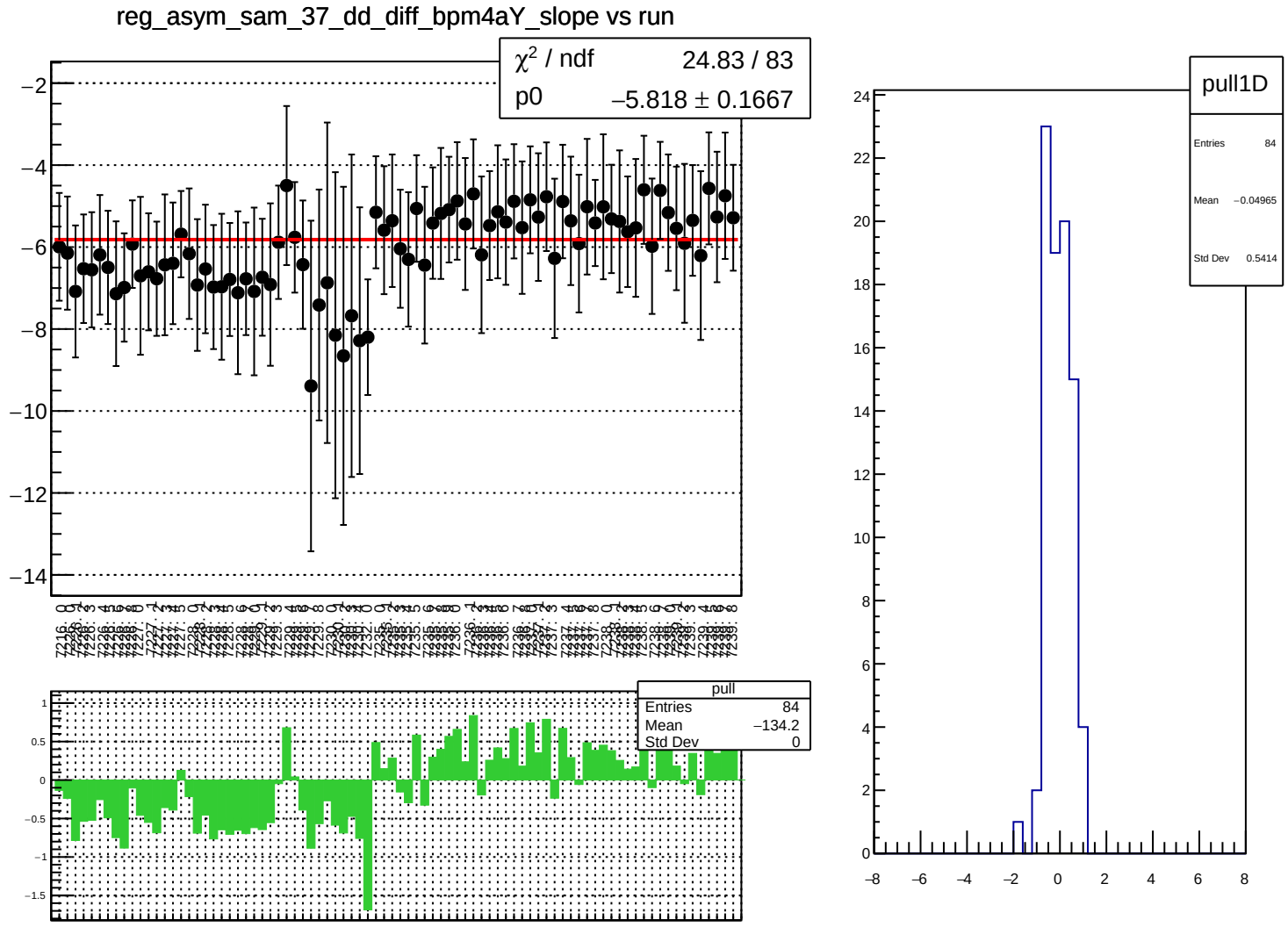


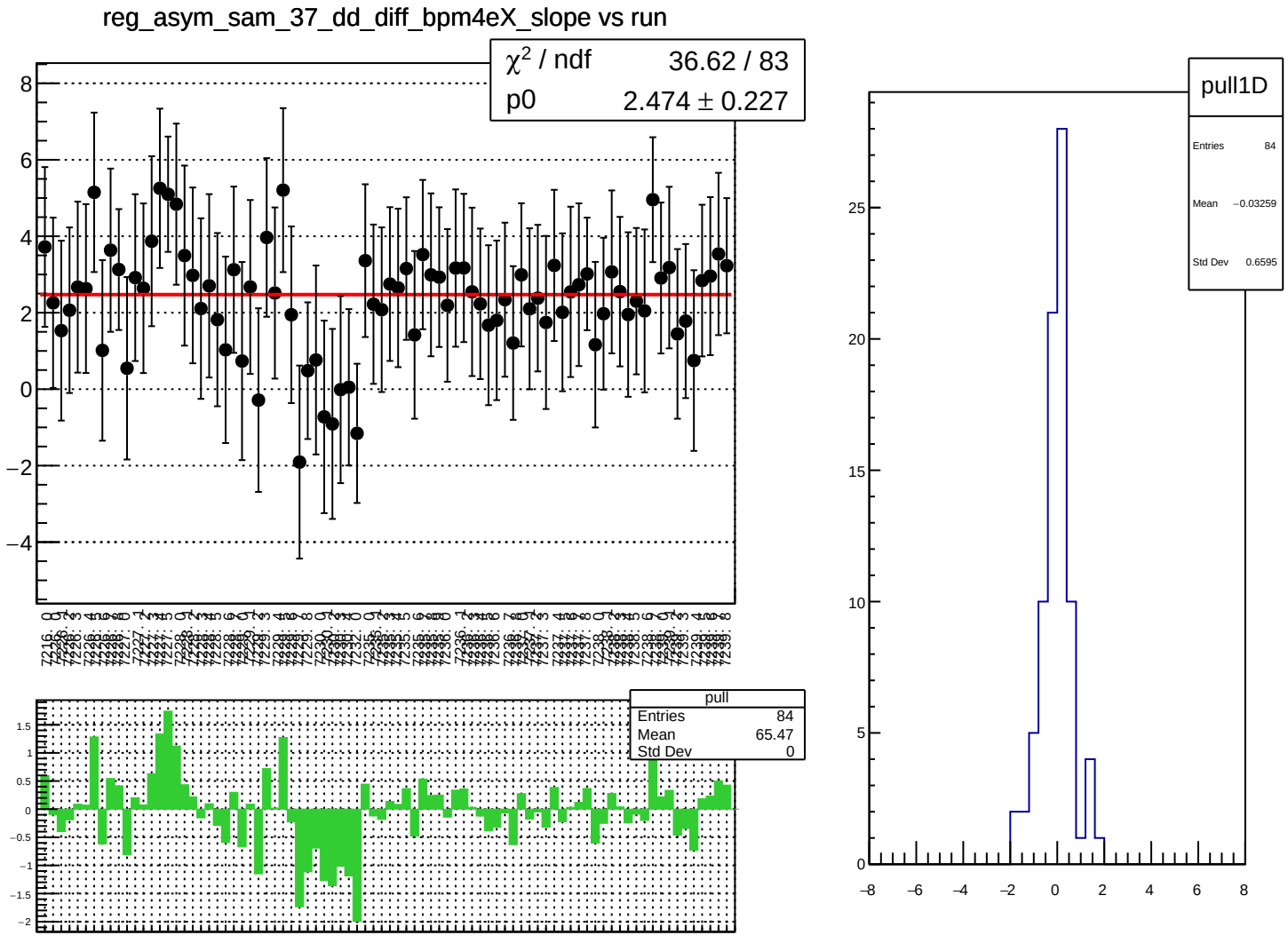

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.74 / 83
p0 3.326 ± 0.4026
pull
Entries 84
Mean 136
Std Dev 0
pull1D
Entries 84
Mean 0.01556
Std Dev 0.3736

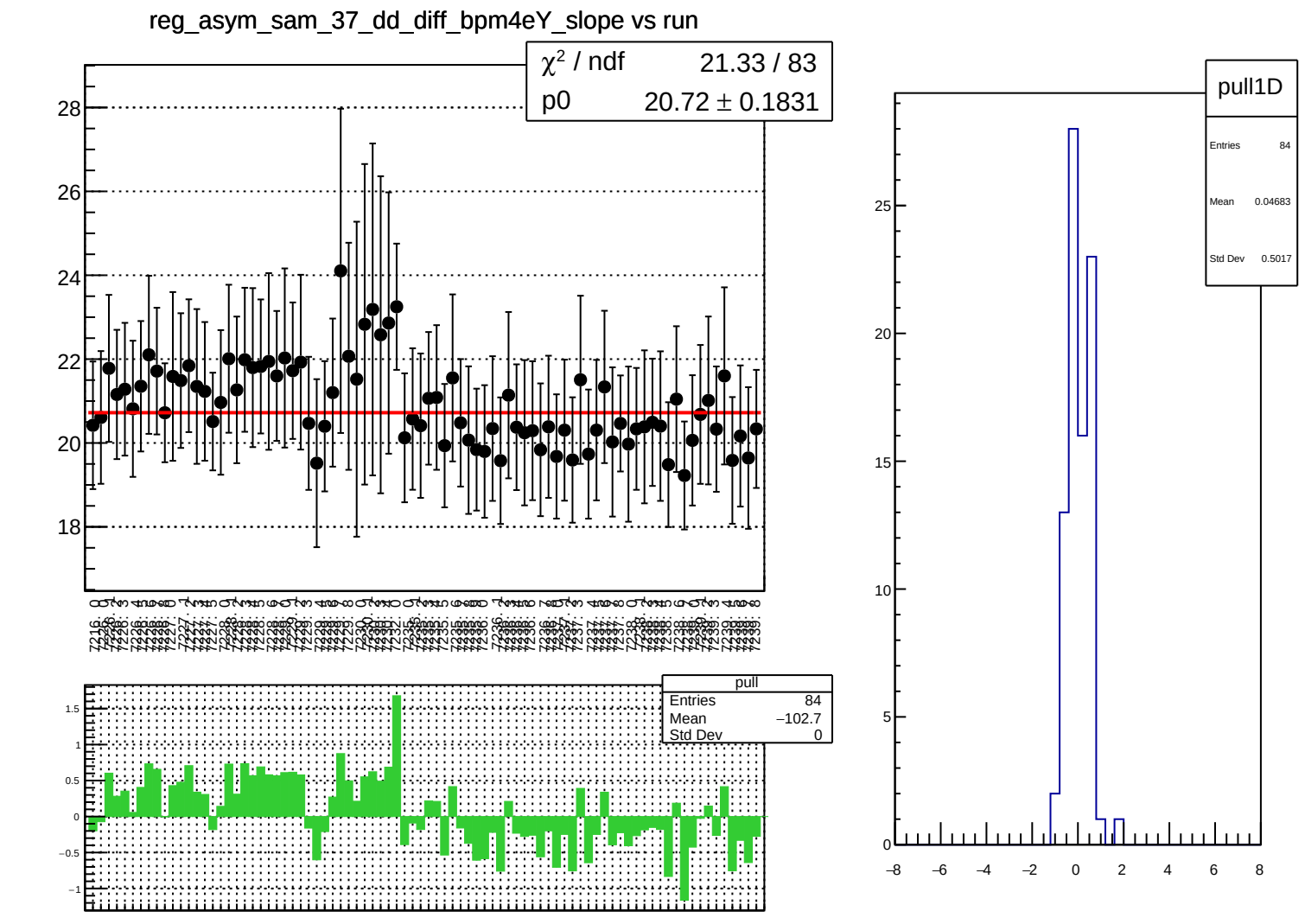

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 2.979 / 83
p0 0.2612 ± 0.0172
pull
Entries 84
Mean 398.3
Std Dev 0
pull1D
Entries 84
Mean 0.0004733
Std Dev 0.1883

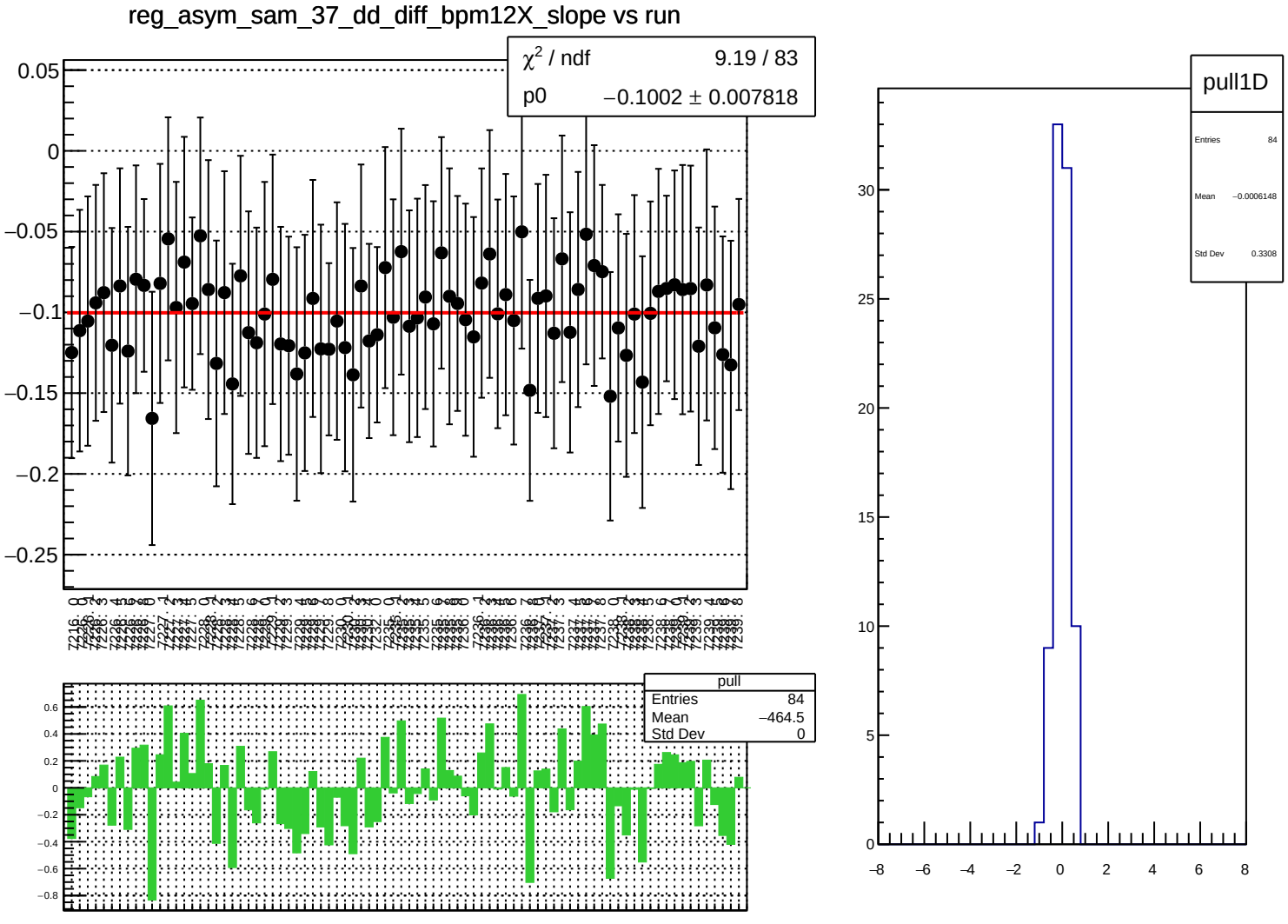

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 41.12 / 83
p0 −25.11 ± 0.2223
pull
Entries 84
Mean 578.2
Std Dev 0

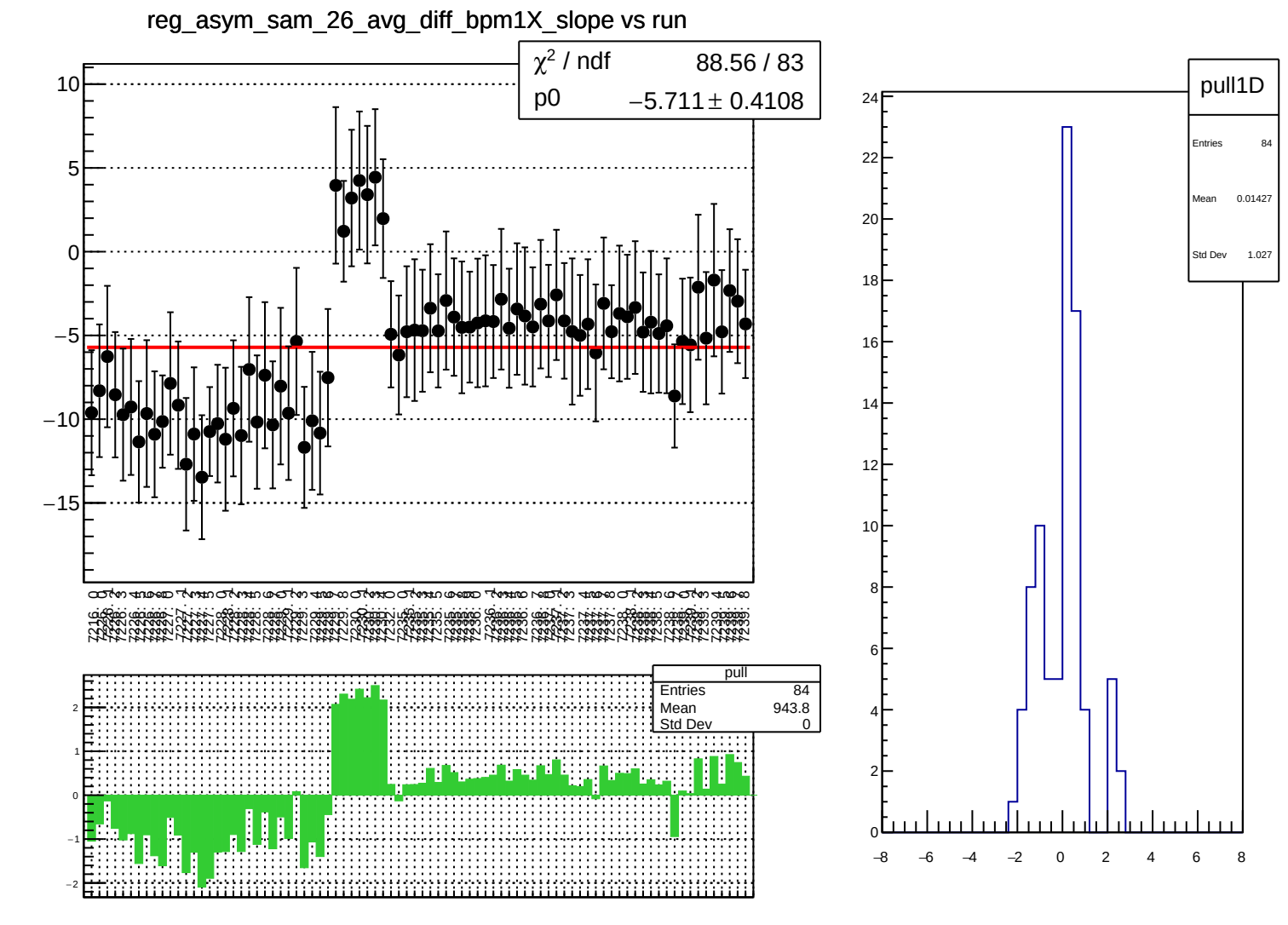

pull1D
Entries 84
Mean 0.01063
Std Dev 0.6996

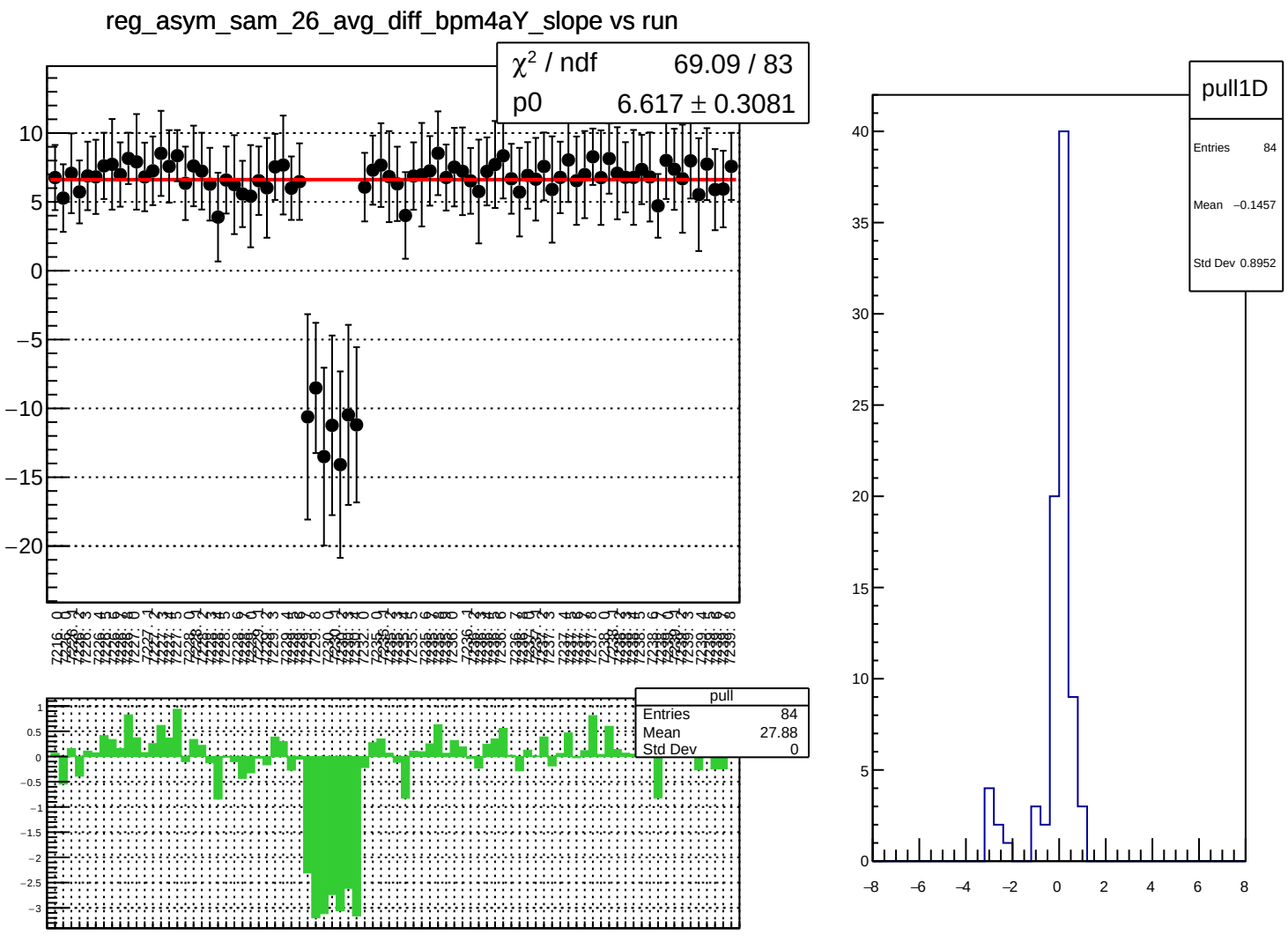

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 24.83 / 83
p0 −5.818 ± 0.1667
pull
Entries 84
Mean −134.2
Std Dev 0
pull1D
Entries 84
Mean −0.04965
Std Dev 0.5414

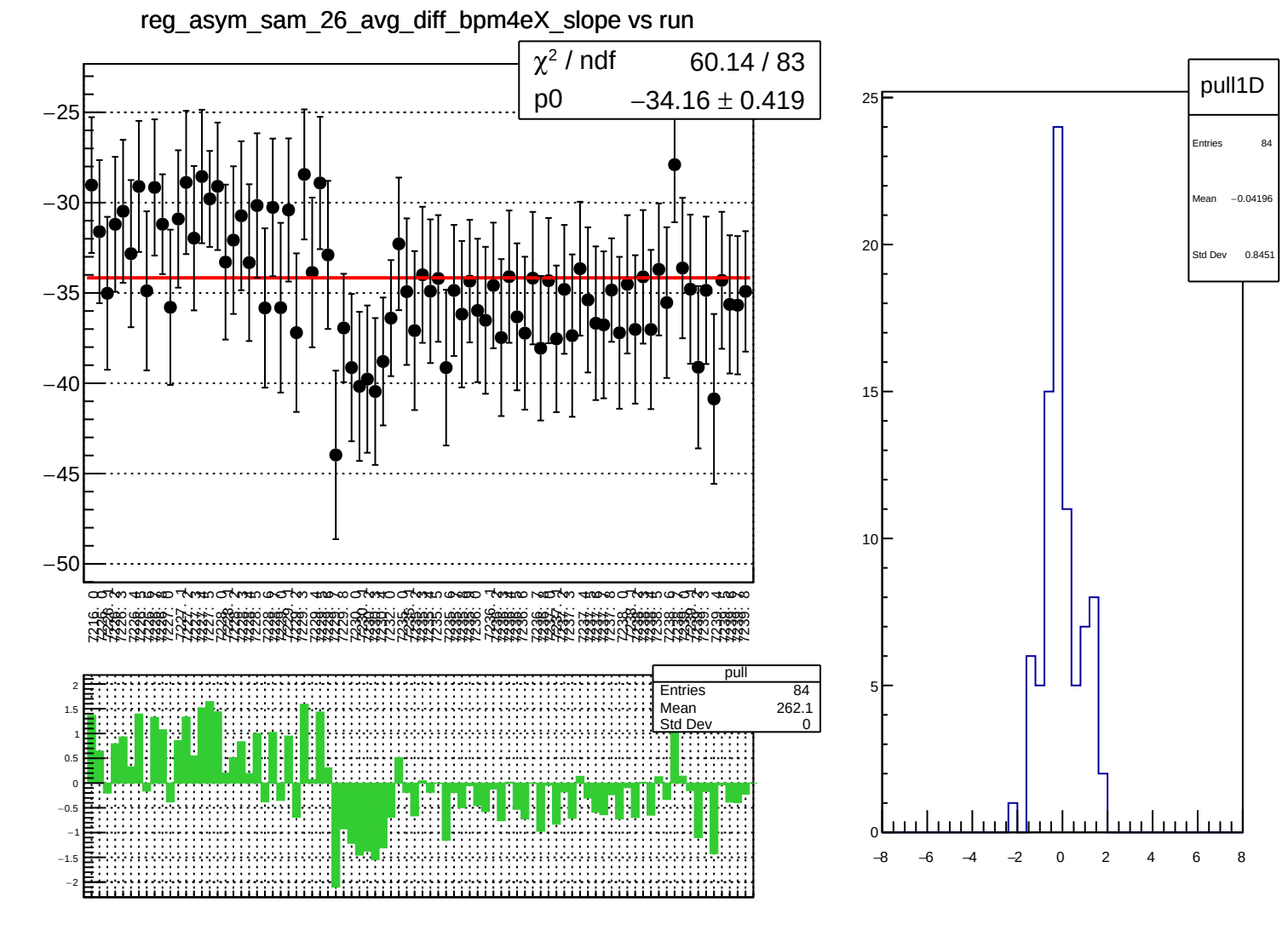

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 36.62 / 83
p0 2.474 ± 0.227
pull
Entries 84
Mean 65.47
Std Dev 0
pull1D
Entries 84
Mean −0.03259
Std Dev 0.6595

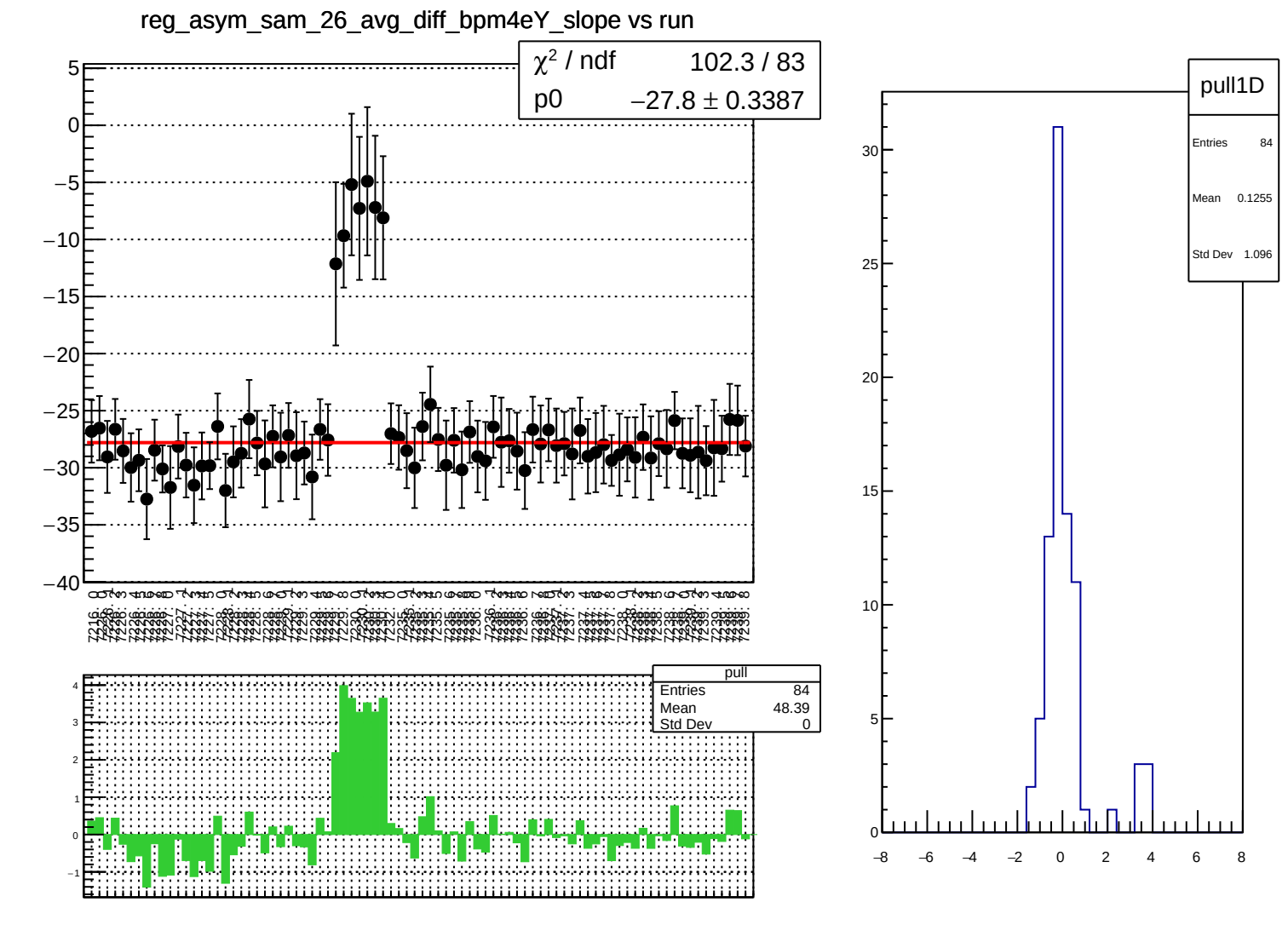

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 21.33 / 83
p0 20.72 ± 0.1831
pull
Entries 84
Mean −102.7
Std Dev 0
pull1D
Entries 84
Mean 0.04683
Std Dev 0.5017

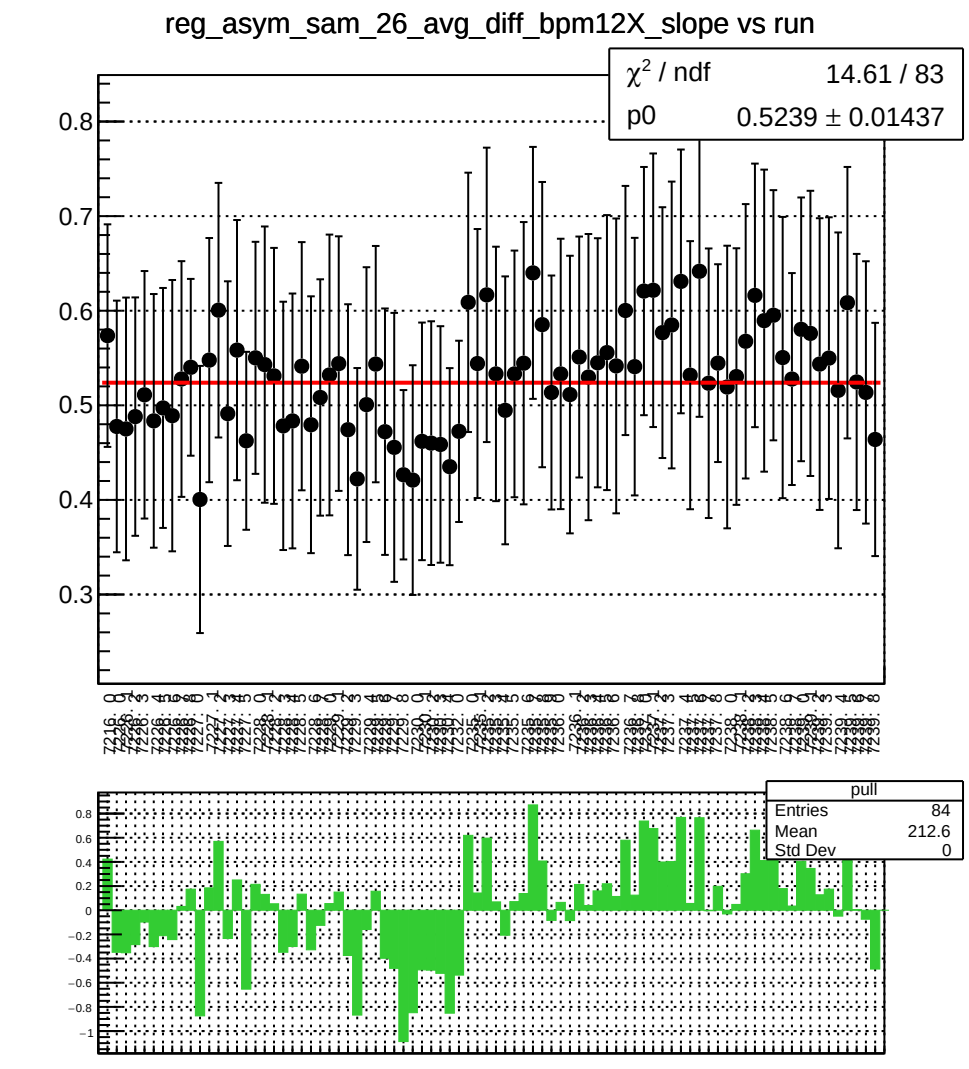

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 9.19 / 83
p0 −0.1002 ± 0.007818
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
pull
Entries 84
Mean −464.5
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 84
Mean −0.0006148
Std Dev 0.3308
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

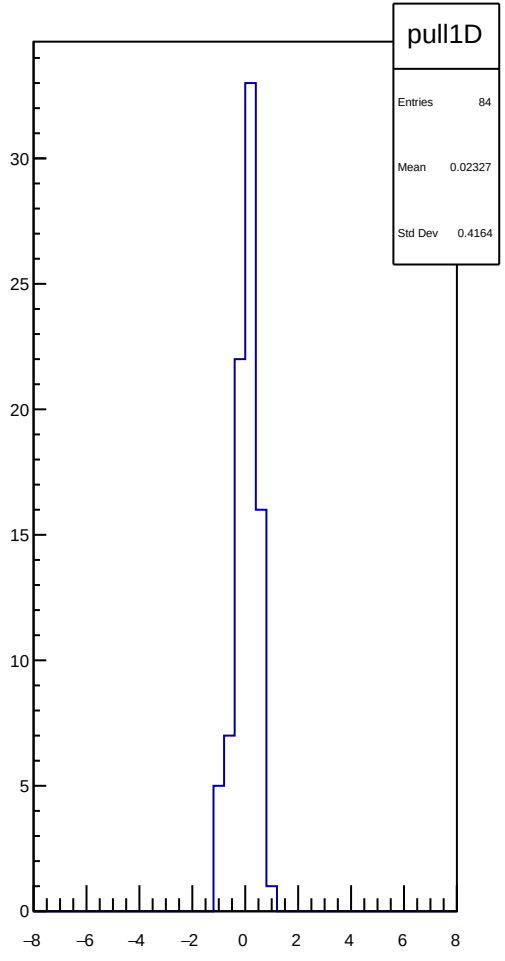

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 88.56 / 83
p0 −5.711 ± 0.4108
pull
Entries 84
Mean 943.8
Std Dev 0
pull1D
Entries 84
Mean 0.01427
Std Dev 1.027

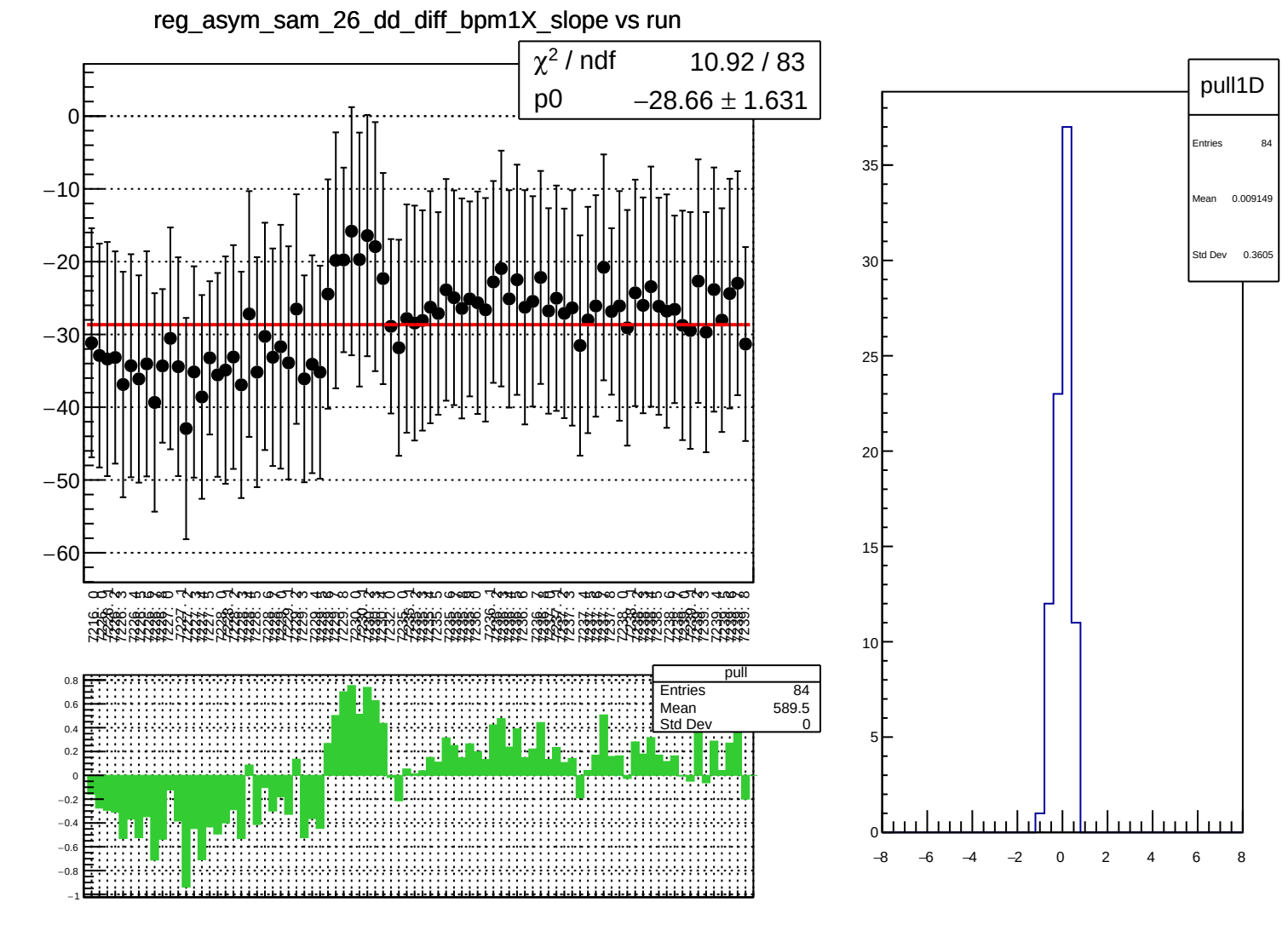

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 69.09 / 83
p0 6.617 ± 0.3081
pull
Entries 84
Mean 27.88
Std Dev 0
pull1D
Entries 84
Mean −0.1457
Std Dev 0.8952

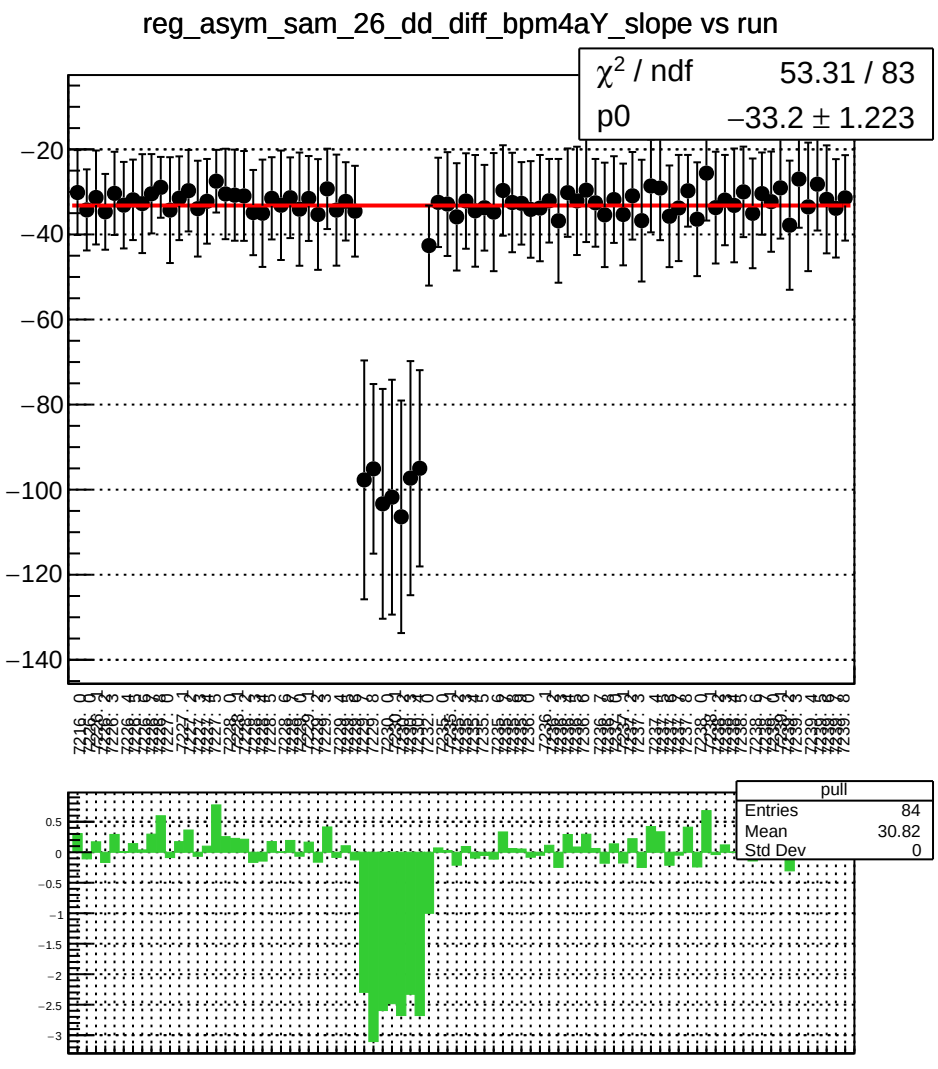

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 60.14 / 83
p0 −34.16 ± 0.419
pull
Entries 84
Mean 262.1
Std Dev 0
pull1D
Entries 84
Mean −0.04196
Std Dev 0.8451

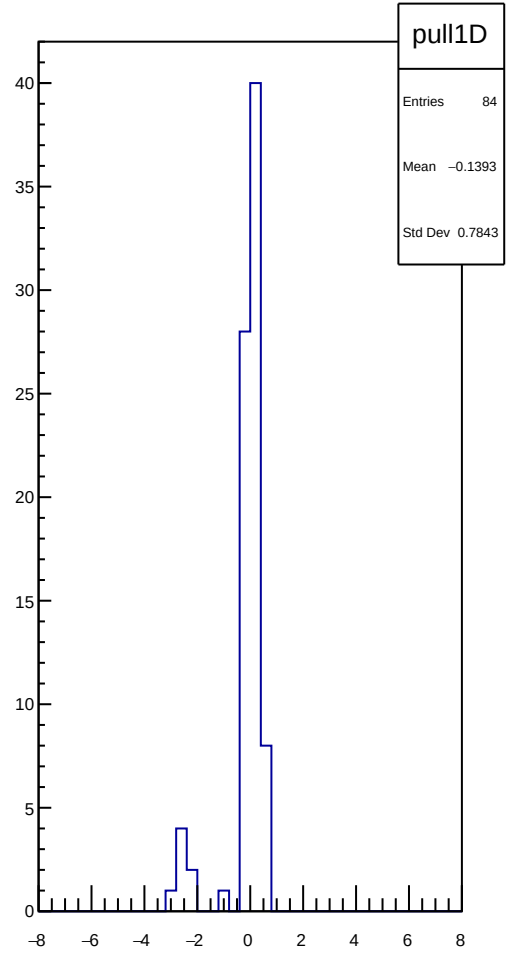

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 102.3 / 83
p0 −27.8 ± 0.3387
pull
Entries 84
Mean 48.39
Std Dev 0
pull1D
Entries 84
Mean 0.1255
Std Dev 1.096

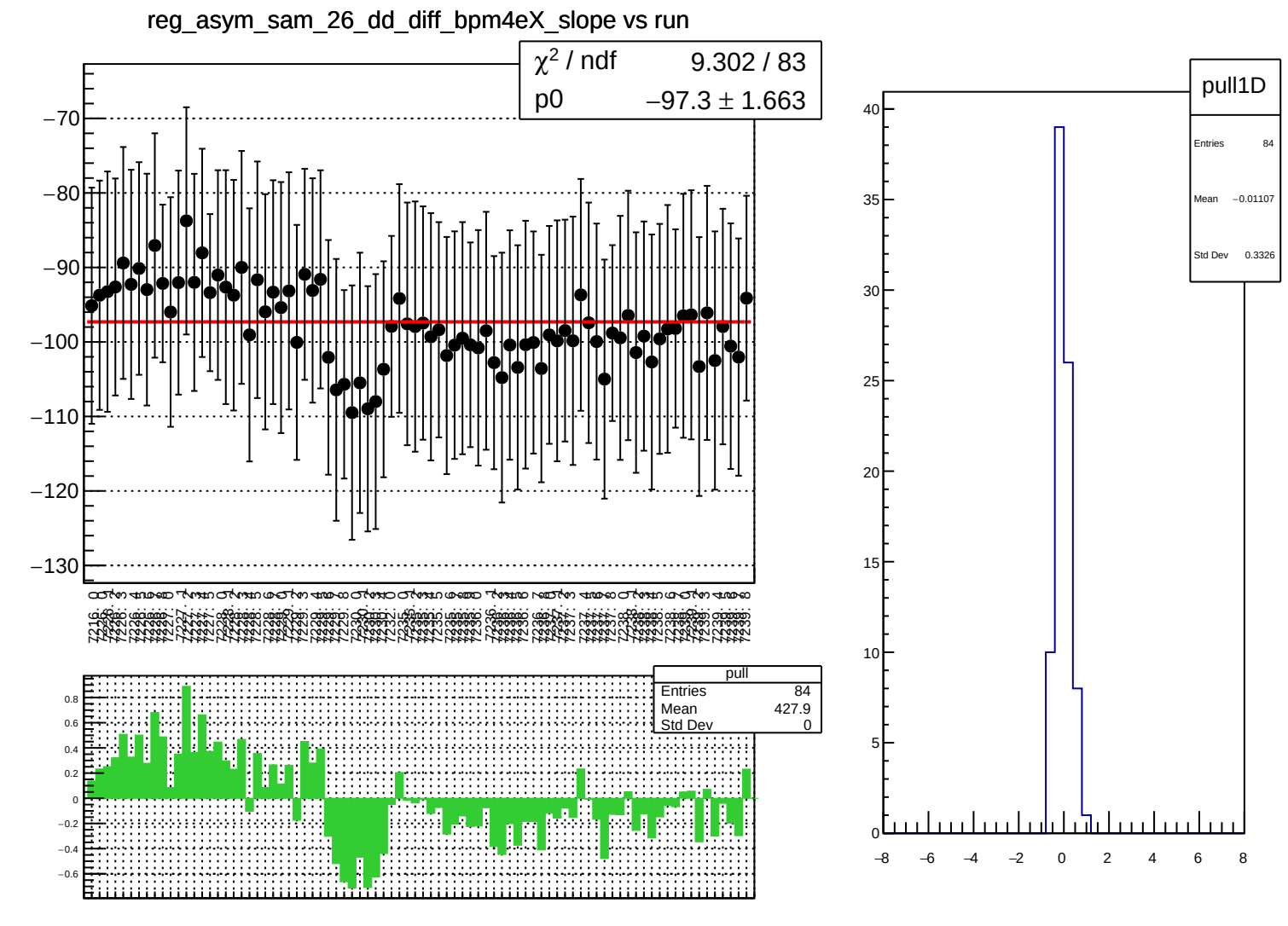

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 14.61 / 83
p0 0.5239 ± 0.01437
pull
Entries 84
Mean 212.6
Std Dev 0

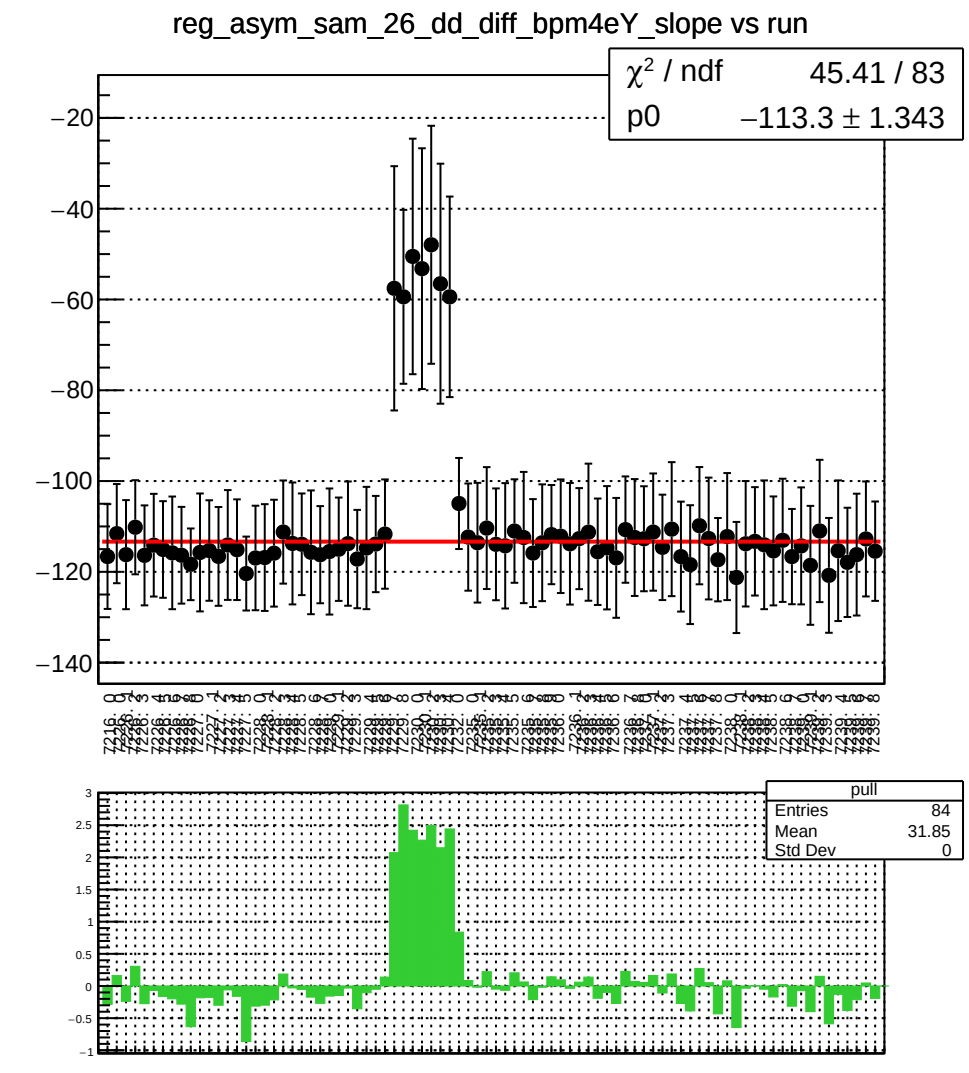

pull1D
Entries 84
Mean 0.02327
Std Dev 0.4164

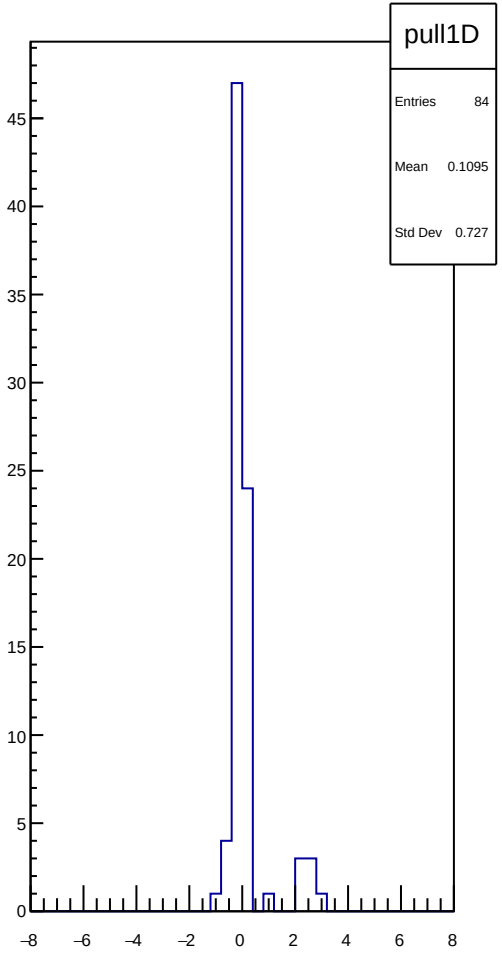

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 10.92 / 83
p0 −28.66 ± 1.631
pull
Entries 84
Mean 589.5
Std Dev 0
pull1D
Entries 84
Mean 0.009149
Std Dev 0.3605

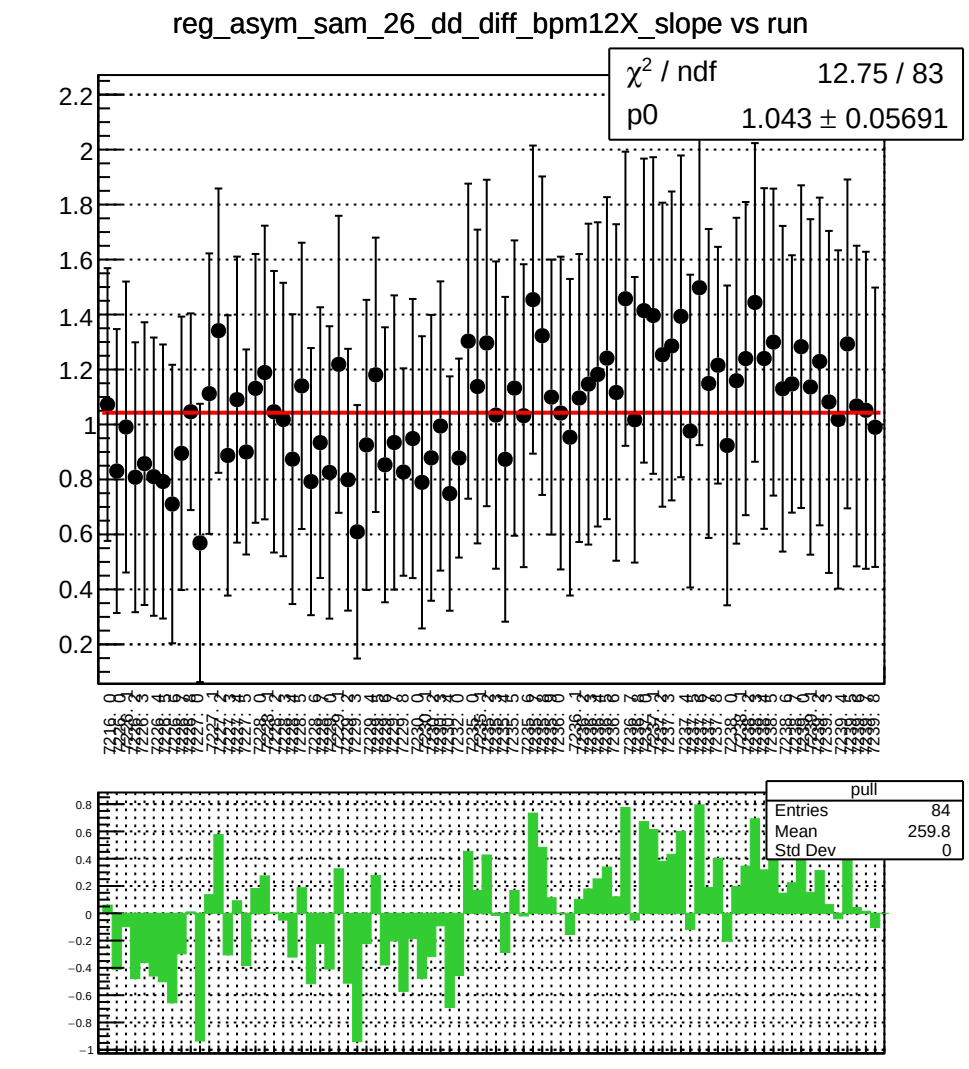

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 53.31 / 83
p0 −33.2 ± 1.223
pull
Entries 84
Mean 30.82
Std Dev 0

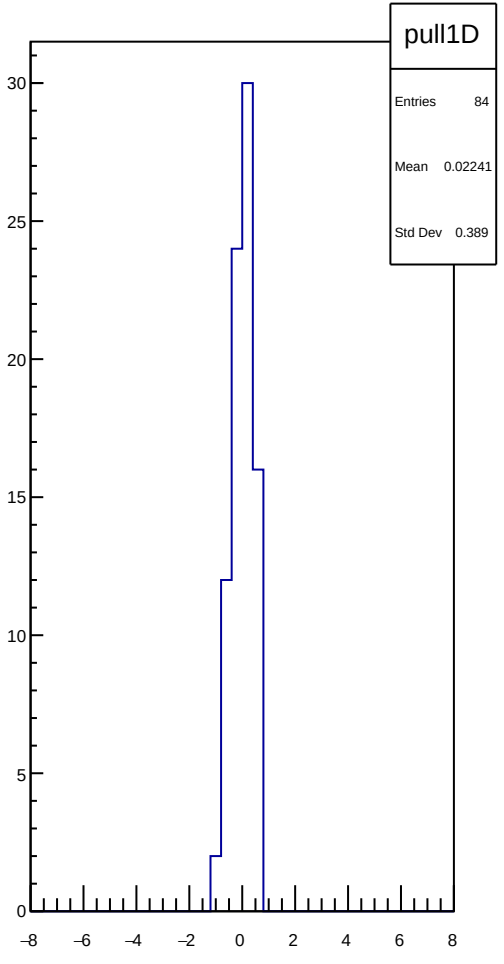

pull1D
Entries 84
Mean −0.1393
Std Dev 0.7843

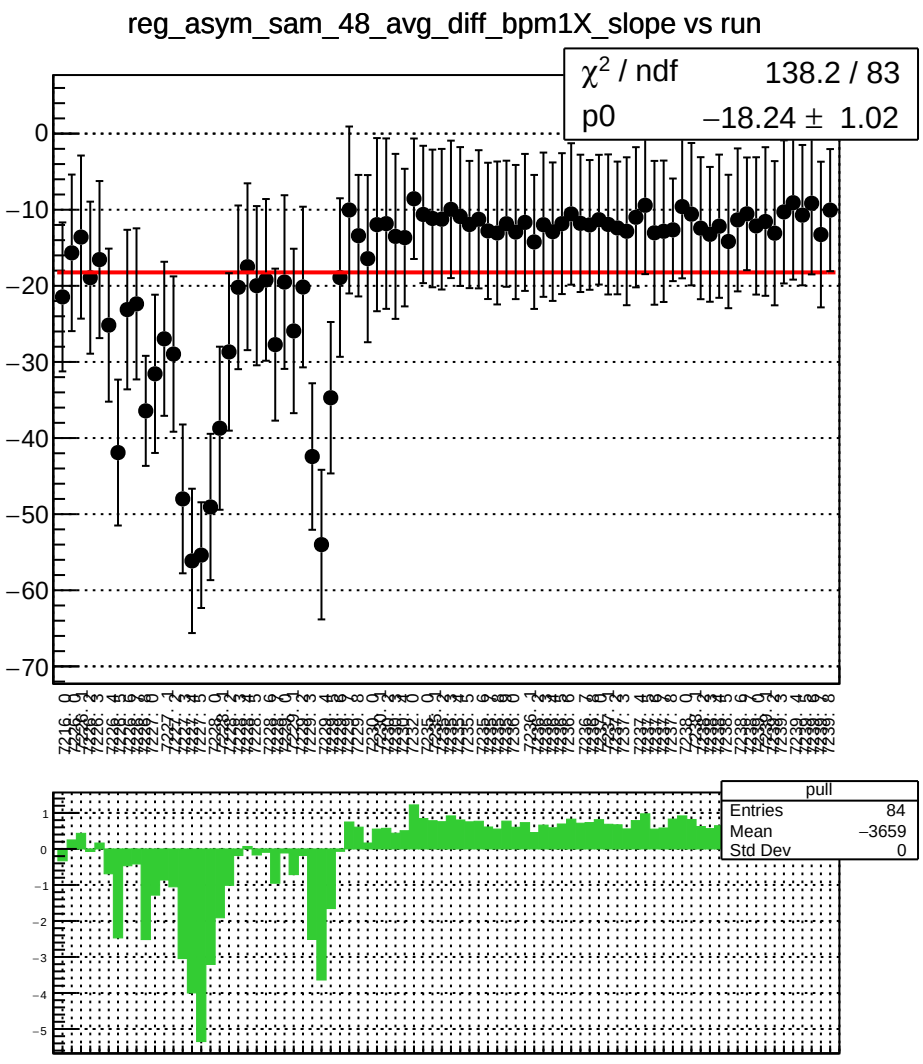

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.302 / 83
p0 −97.3 ± 1.663
pull
Entries 84
Mean 427.9
Std Dev 0
pull1D
Entries 84
Mean −0.01107
Std Dev 0.3326

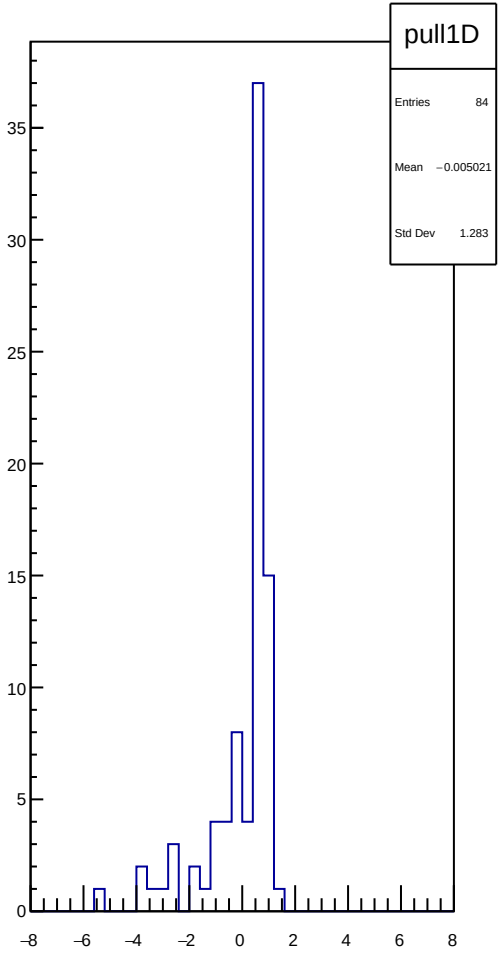

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 45.41 / 83
p0 −113.3 ± 1.343
pull
Entries 84
Mean 31.85
Std Dev 0

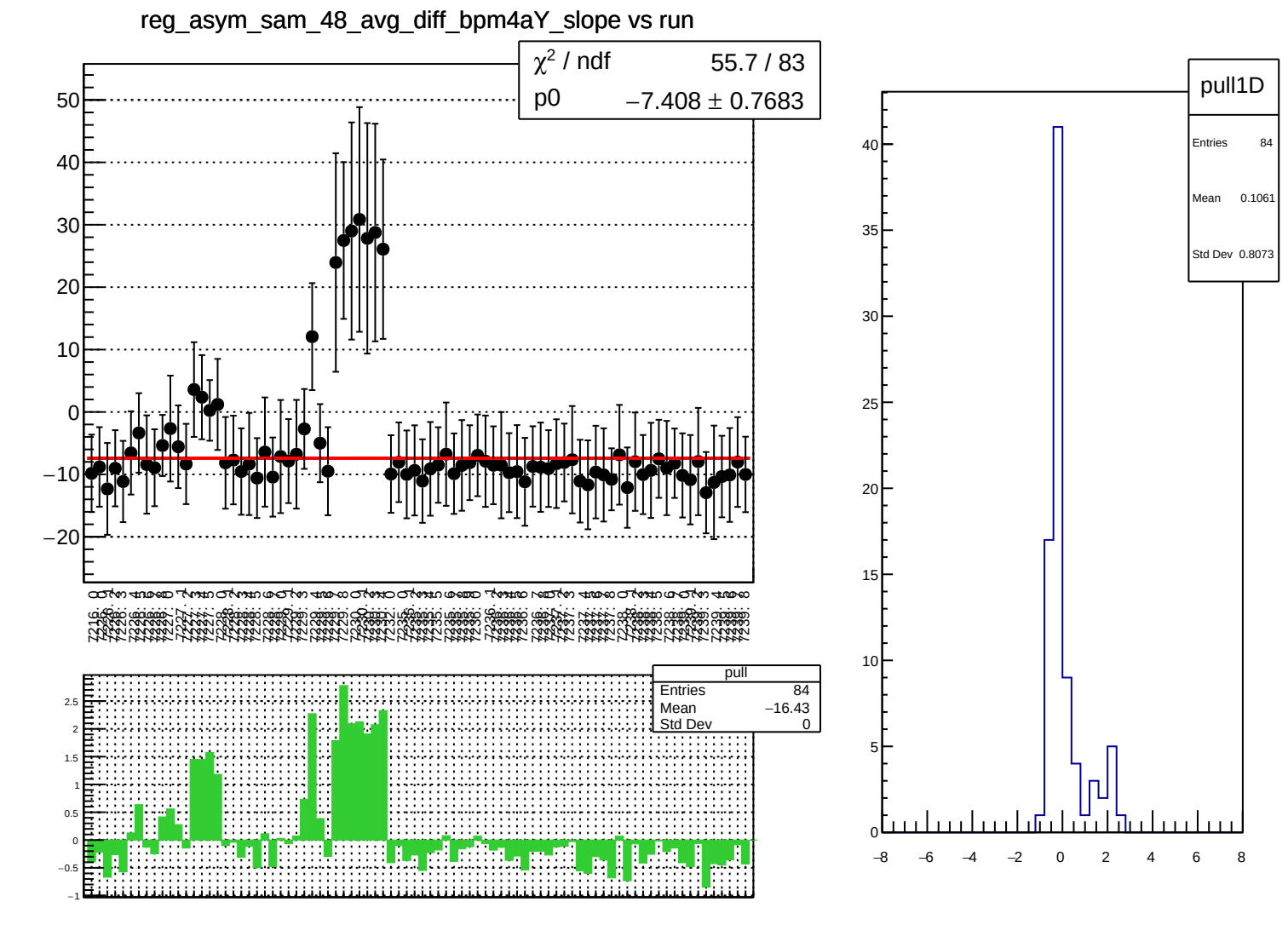

pull1D
Entries 84
Mean 0.1095
Std Dev 0.727

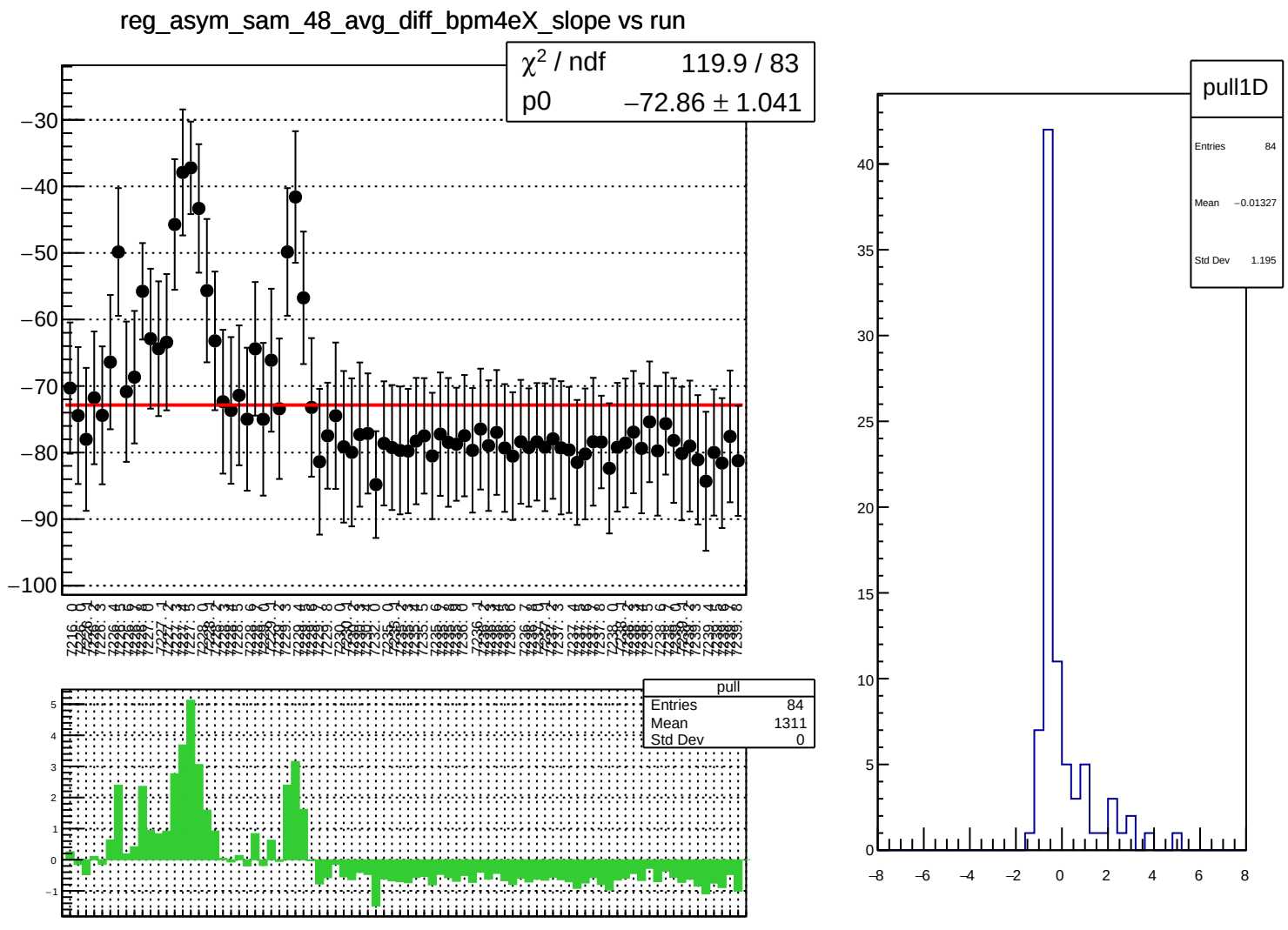

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 12.75 / 83
p0 1.043 ± 0.05691
pull
Entries 84
Mean 259.8
Std Dev 0

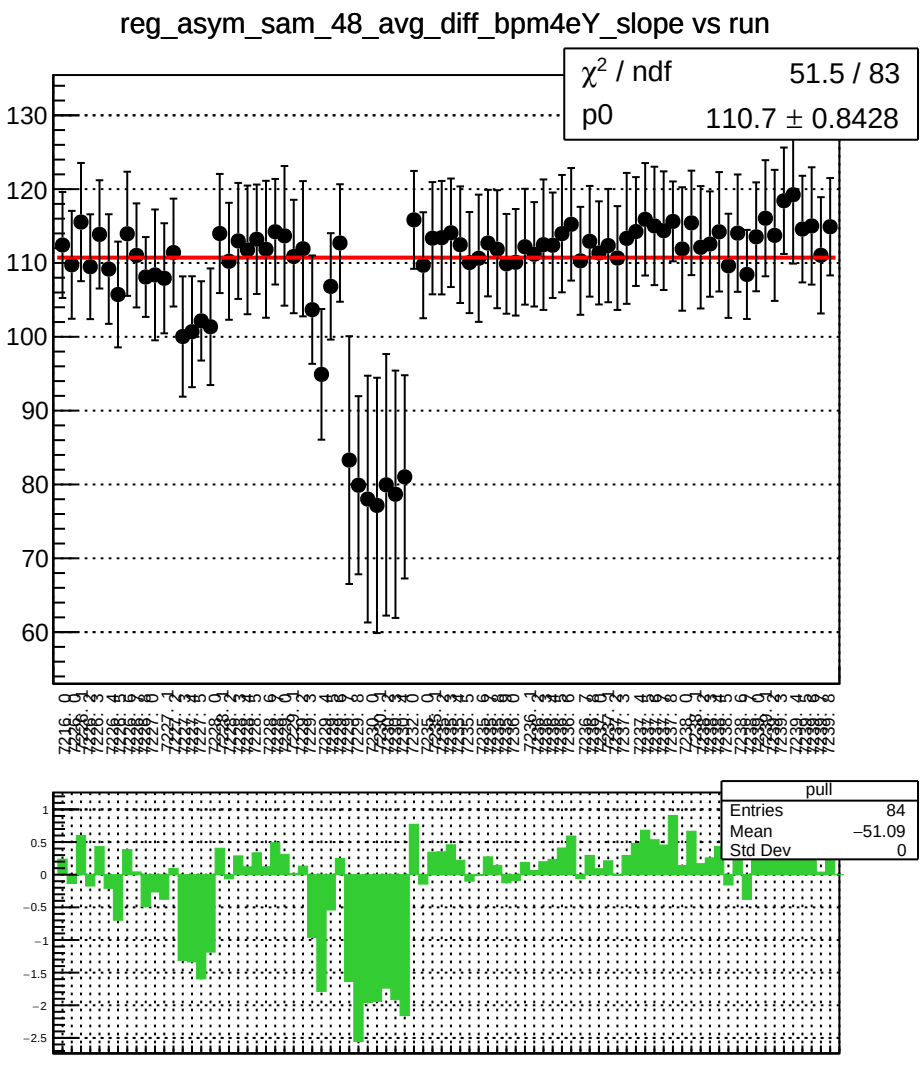

pull1D
Entries 84
Mean 0.02241
Std Dev 0.389

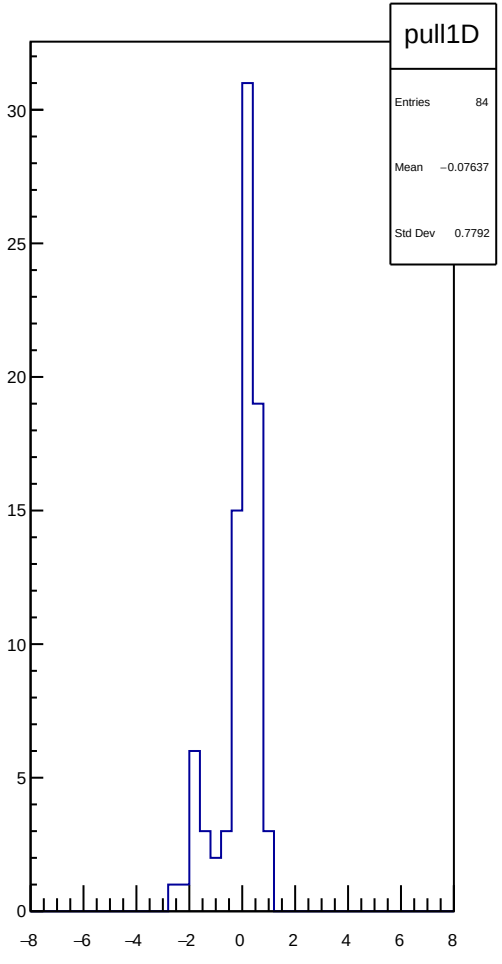

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 138.2 / 83
p0 −18.24 ± 1.02
pull
Entries 84
Mean −3659
Std Dev 0

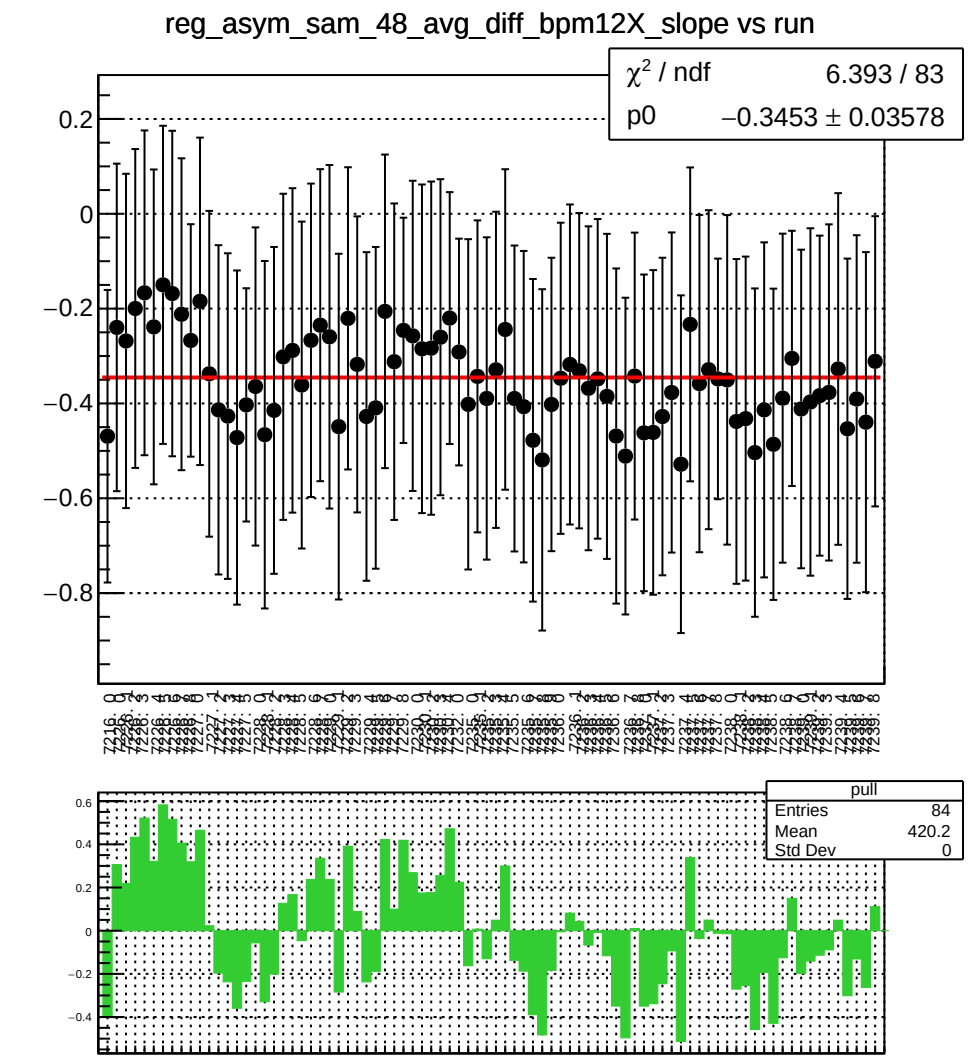

pull1D
Entries 84
Mean −0.005021
Std Dev 1.283

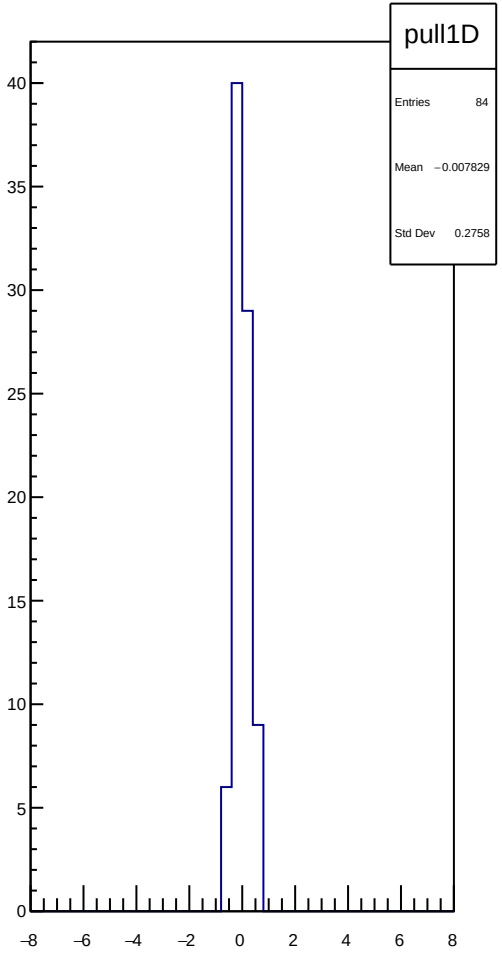

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 55.7 / 83
p0 −7.408 ± 0.7683
pull
Entries 84
Mean −16.43
Std Dev 0
pull1D
Entries 84
Mean 0.1061
Std Dev 0.8073

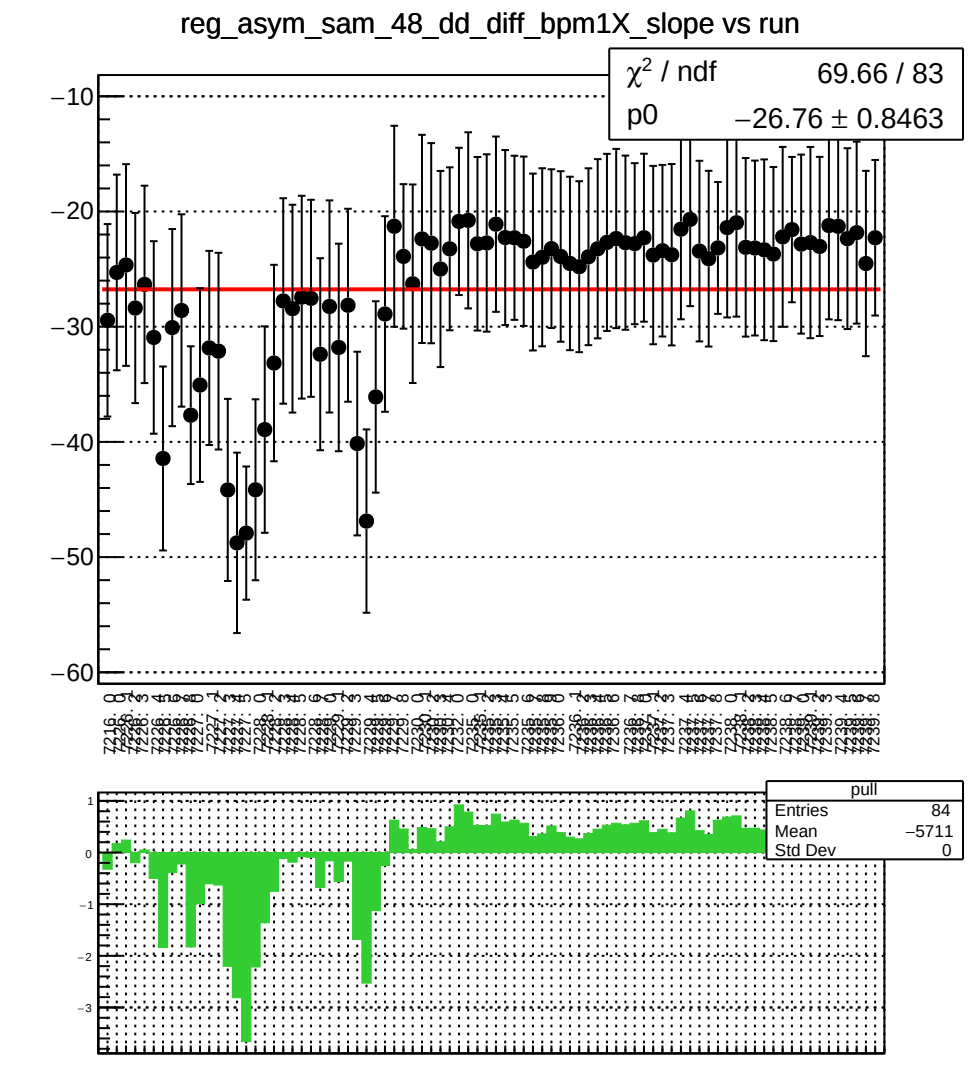

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 119.9 / 83
p0 −72.86 ± 1.041
pull
Entries 84
Mean 1311
Std Dev 0
pull1D
Entries 84
Mean −0.01327
Std Dev 1.195

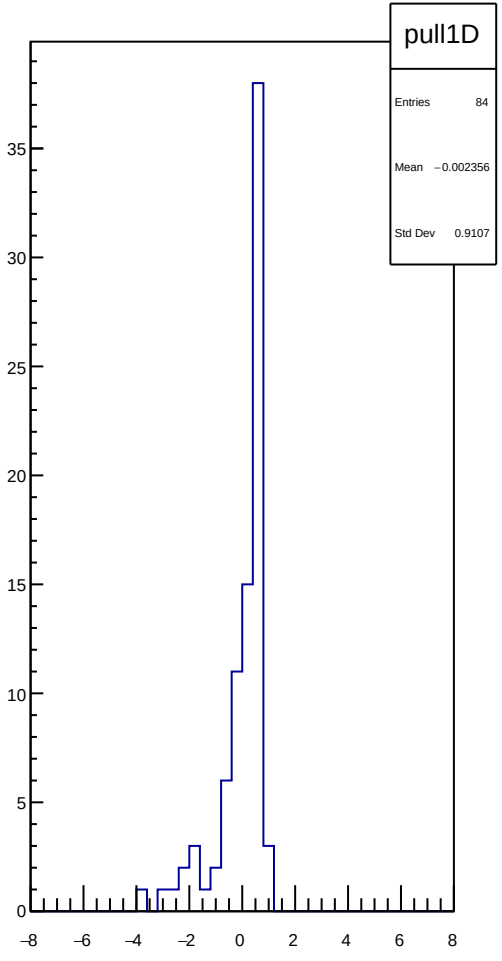

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 51.5 / 83
p0 110.7 ± 0.8428
pull
Entries 84
Mean −51.09
Std Dev 0

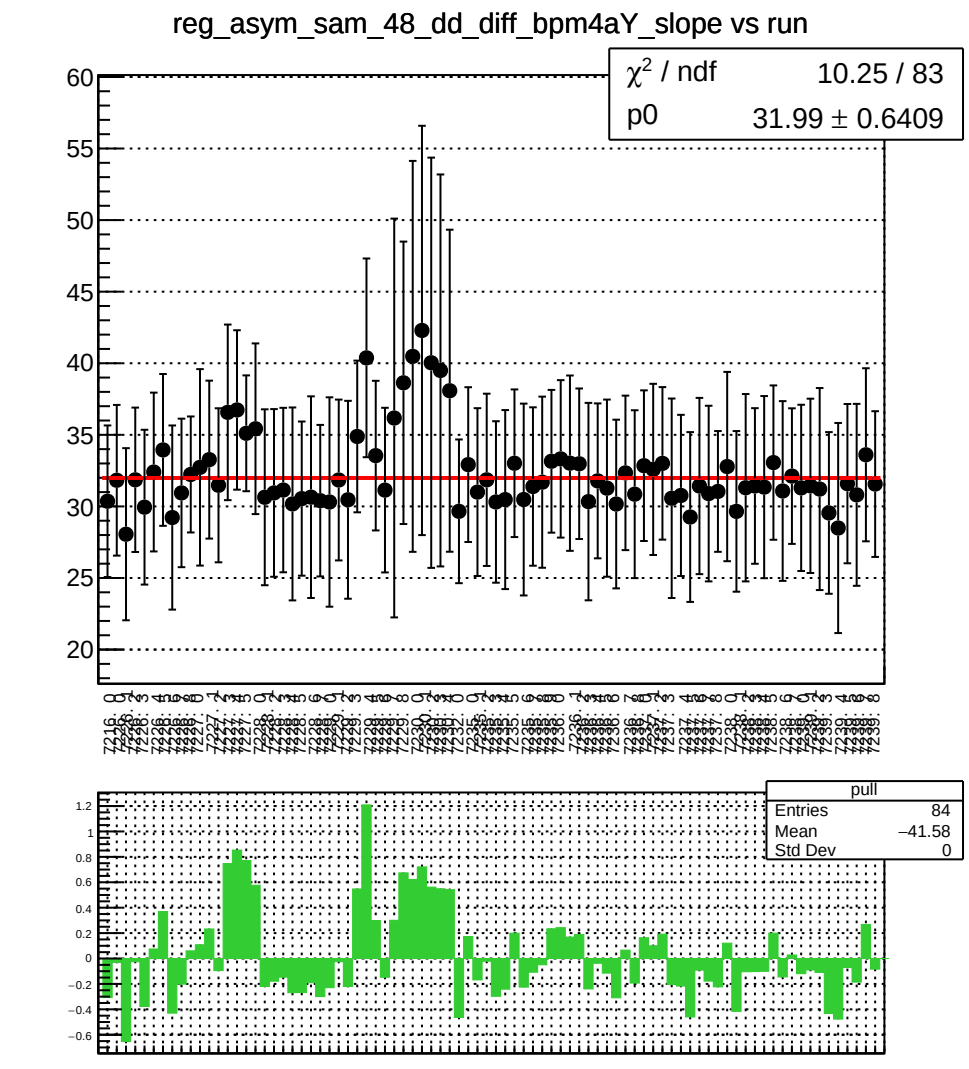

pull1D
Entries 84
Mean −0.07637
Std Dev 0.7792

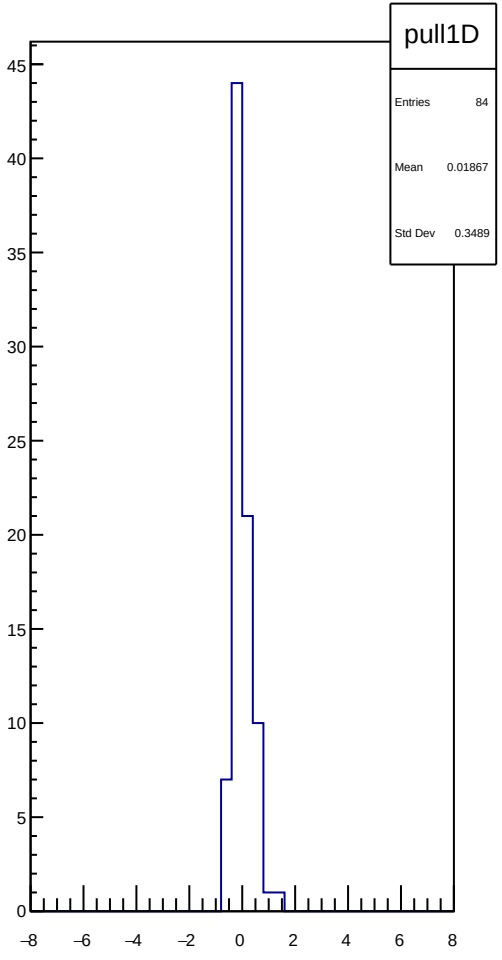

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 6.393 / 83
p0 −0.3453 ± 0.03578
pull
Entries 84
Mean 420.2
Std Dev 0

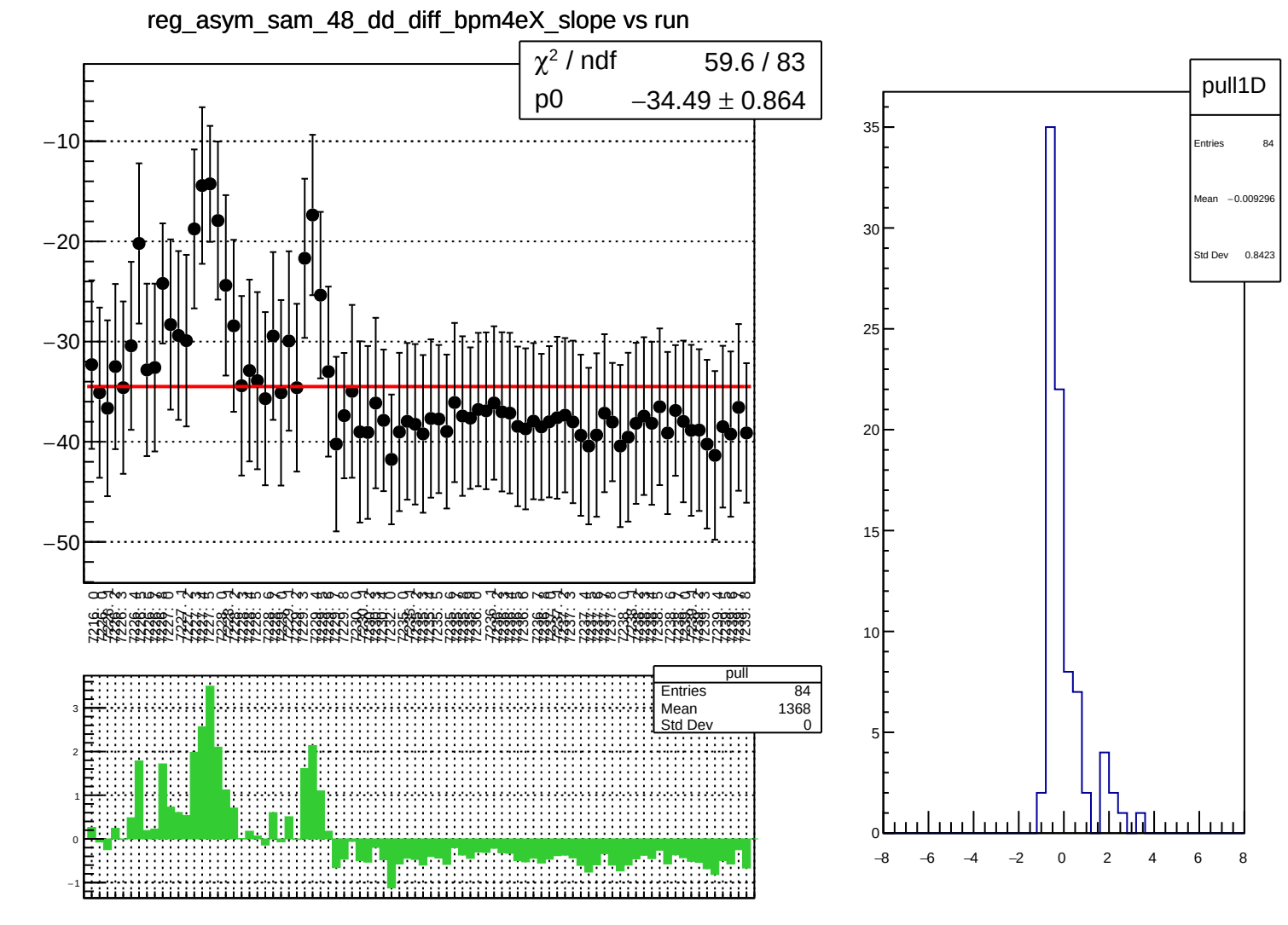

pull1D
Entries 84
Mean −0.007829
Std Dev 0.2758

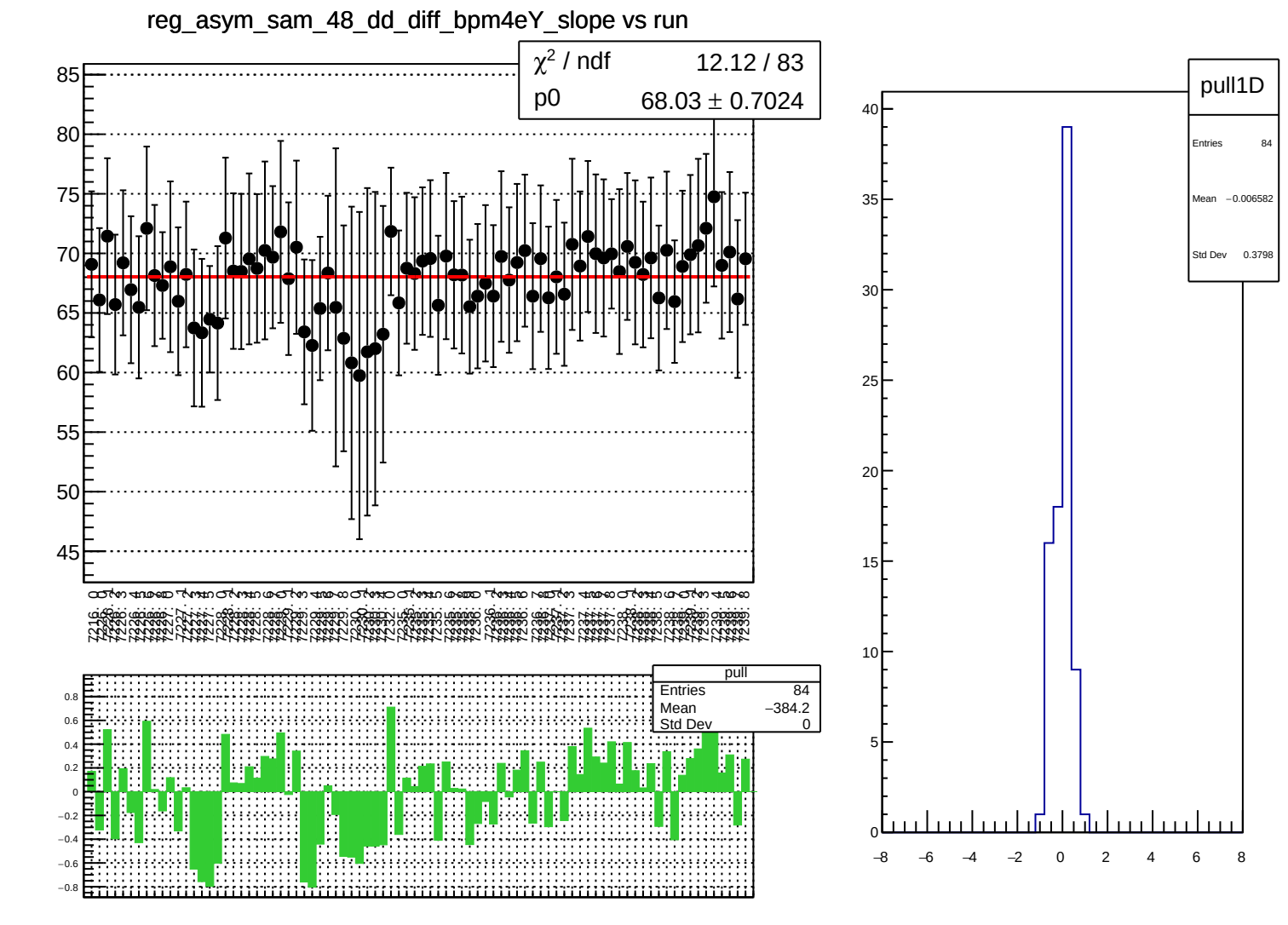

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 69.66 / 83
p0 −26.76 ± 0.8463
pull
Entries 84
Mean −5711
Std Dev 0

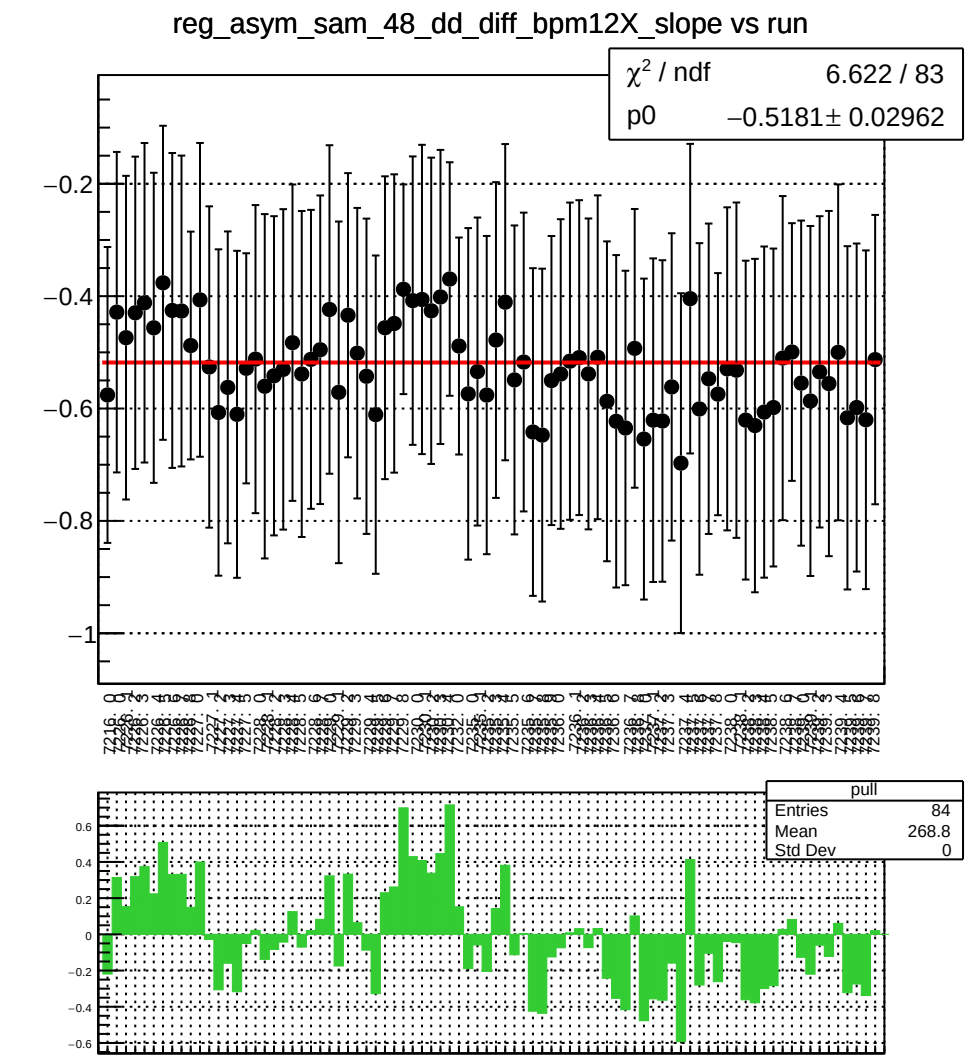

pull1D
Entries 84
Mean −0.002356
Std Dev 0.9107

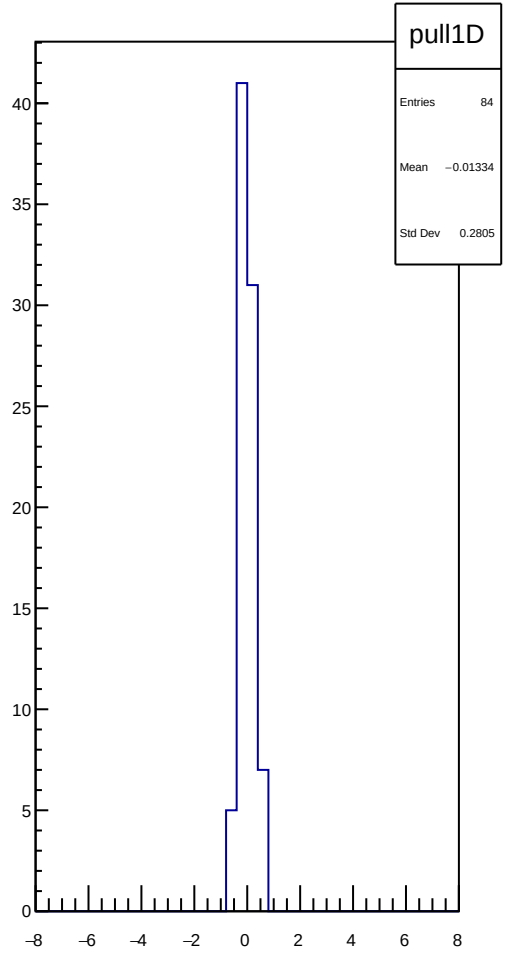

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.25 / 83
p0 31.99 ± 0.6409
pull
Entries 84
Mean −41.58
Std Dev 0

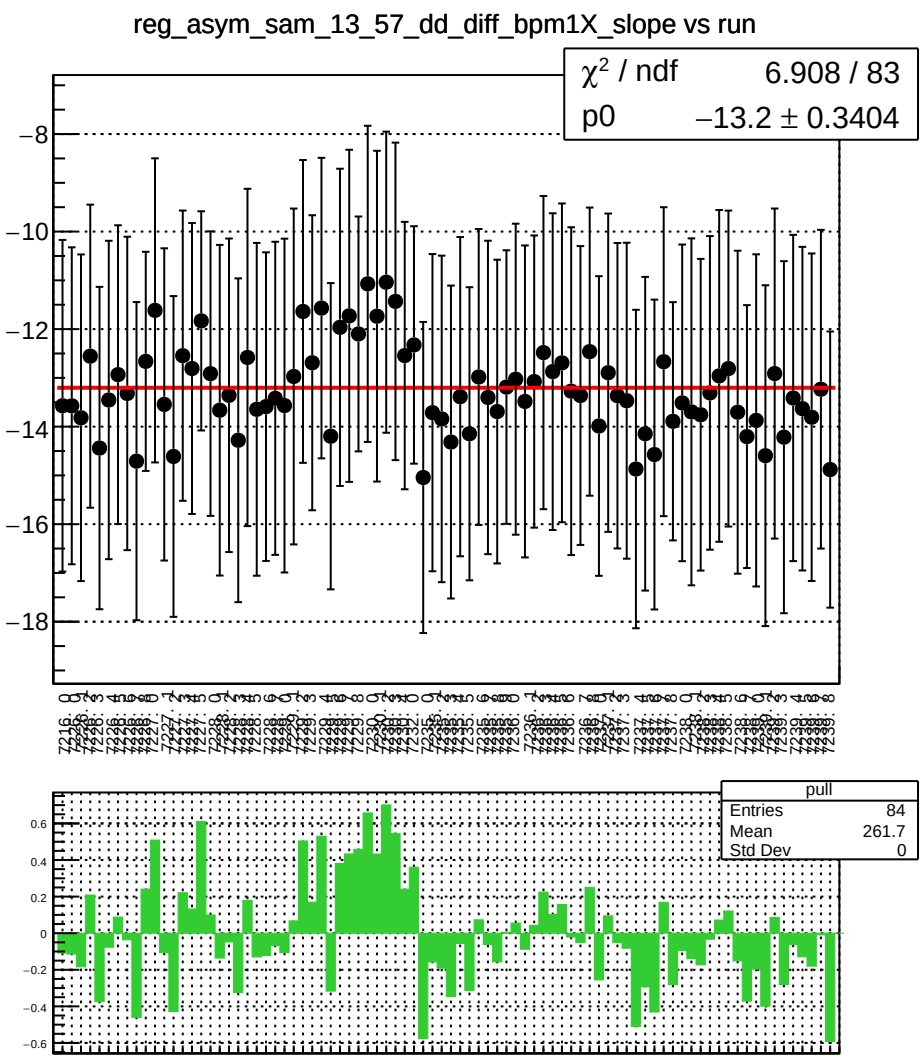

pull1D
Entries 84
Mean 0.01867
Std Dev 0.3489

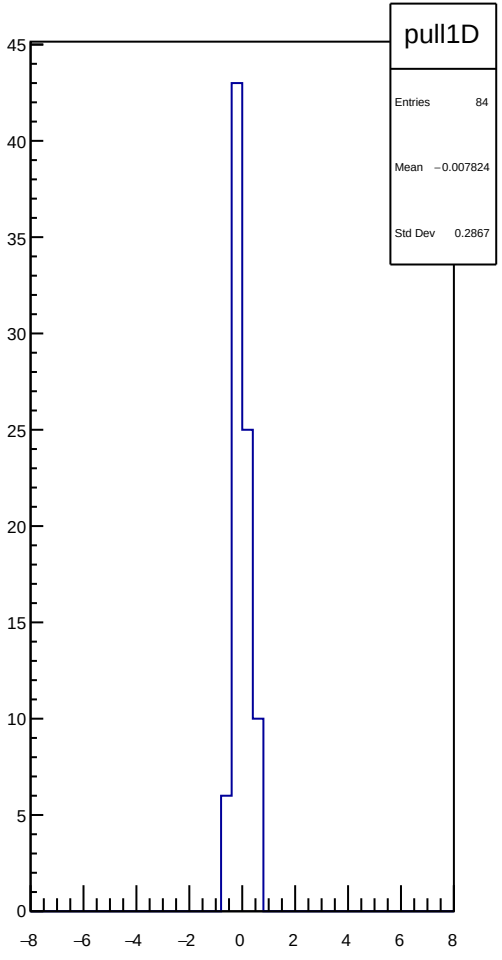

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 59.6 / 83
p0 −34.49 ± 0.864
pull
Entries 84
Mean 1368
Std Dev 0
pull1D
Entries 84
Mean −0.009296
Std Dev 0.8423

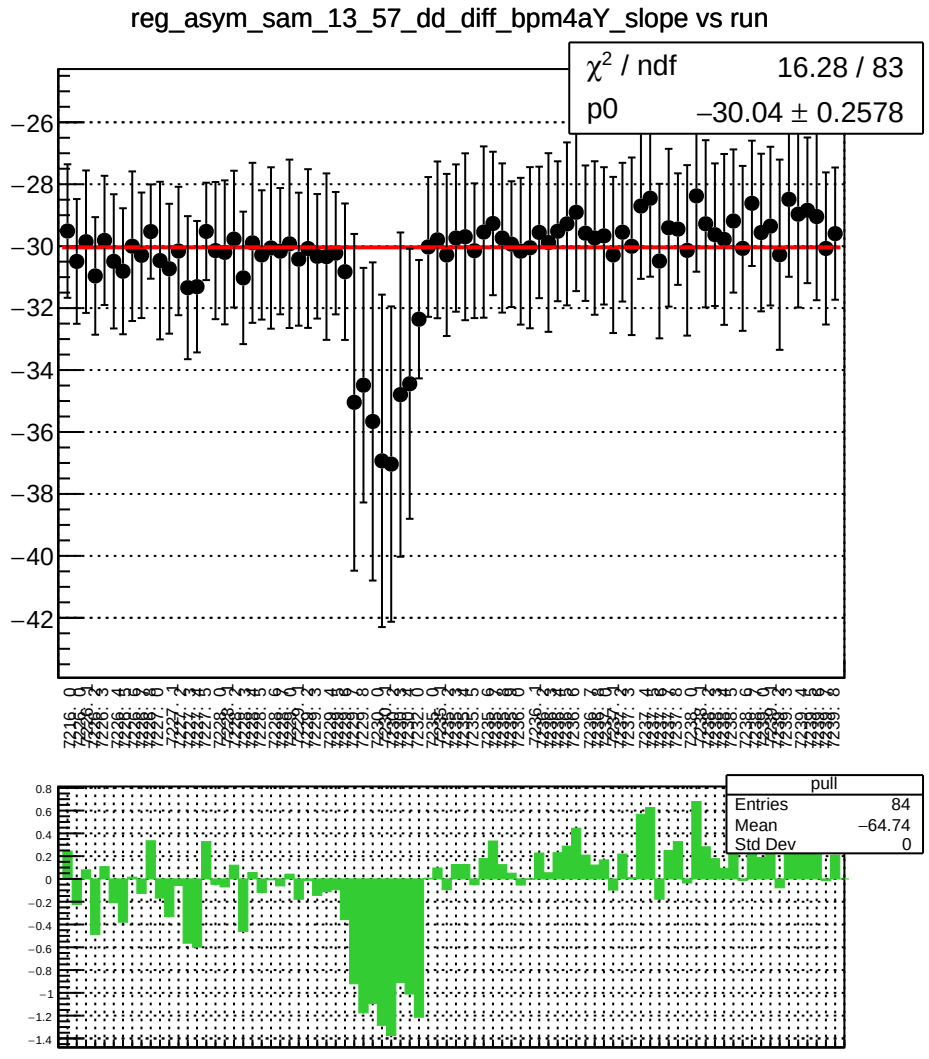

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.12 / 83
p0 68.03 ± 0.7024
pull
Entries 84
Mean −384.2
Std Dev 0
pull1D
Entries 84
Mean −0.006582
Std Dev 0.3798

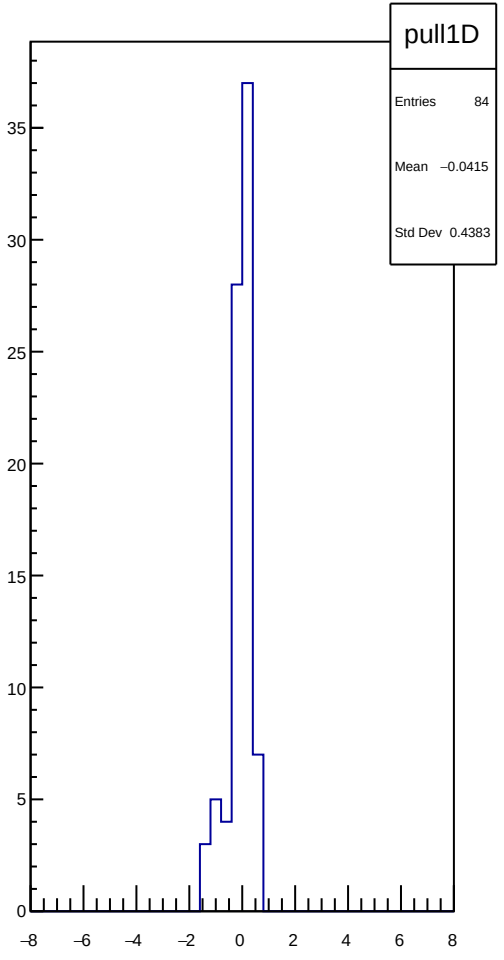

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 6.622 / 83
p0 −0.5181± 0.02962
pull
Entries 84
Mean 268.8
Std Dev 0

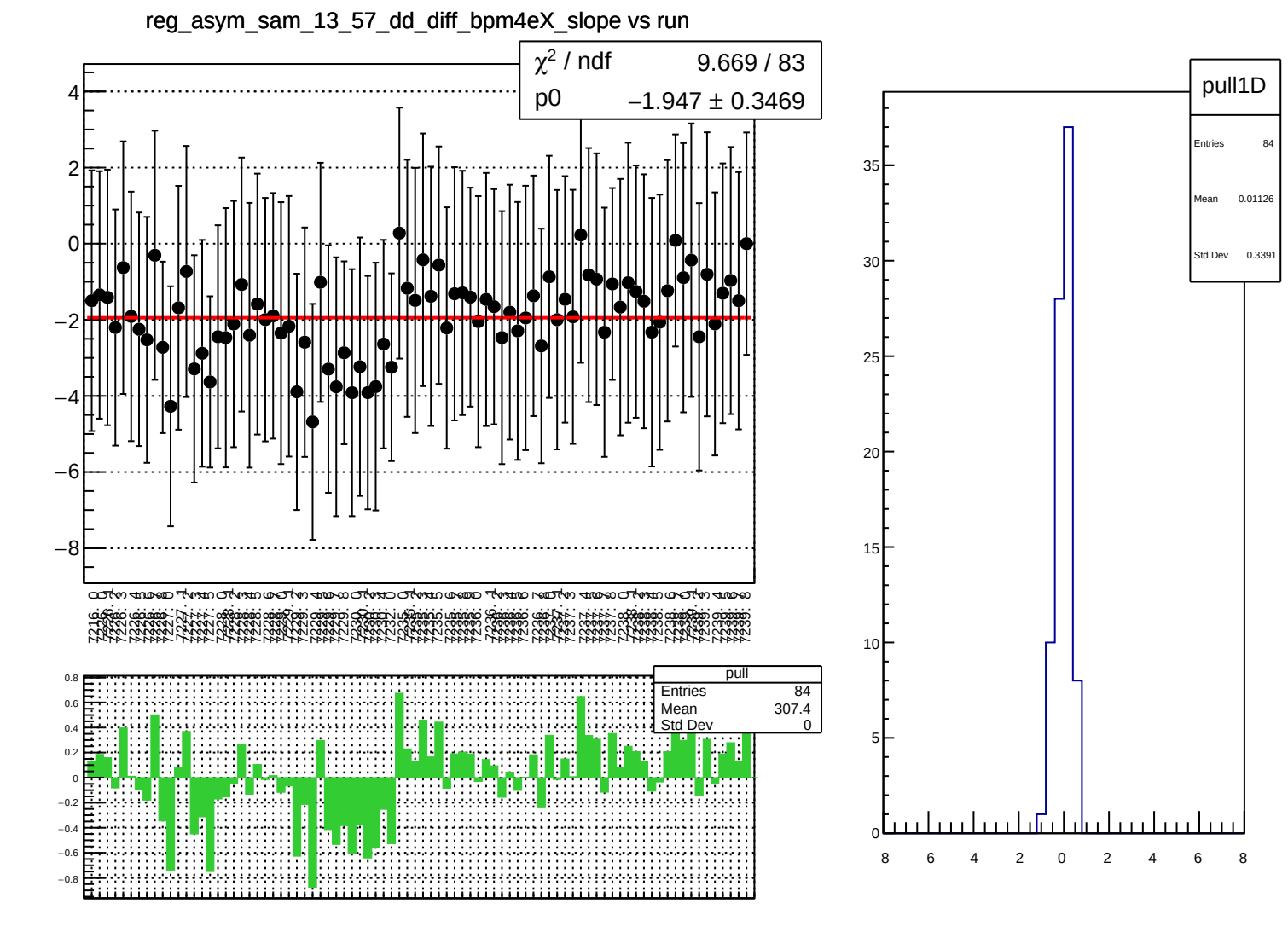

pull1D
Entries 84
Mean −0.01334
Std Dev 0.2805

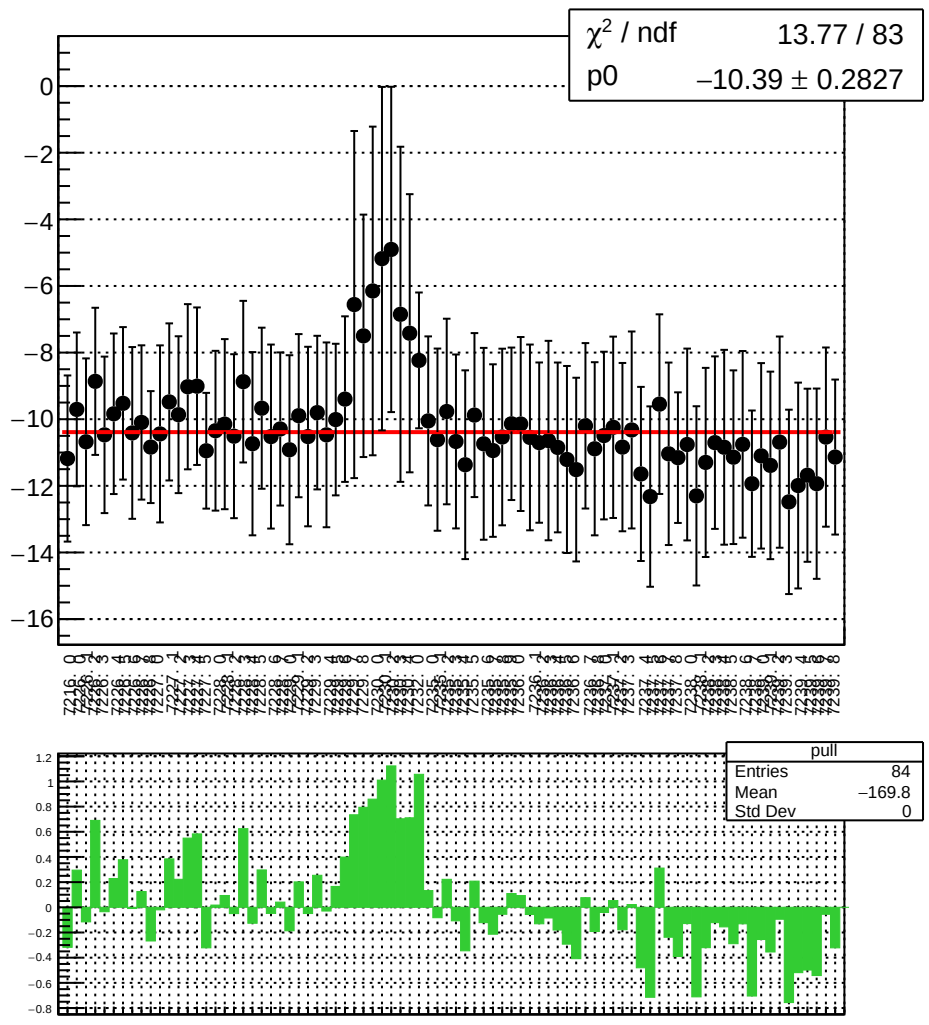

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 6.908 / 83
p0 −13.2 ± 0.3404
pull
Entries 84
Mean 261.7
Std Dev 0

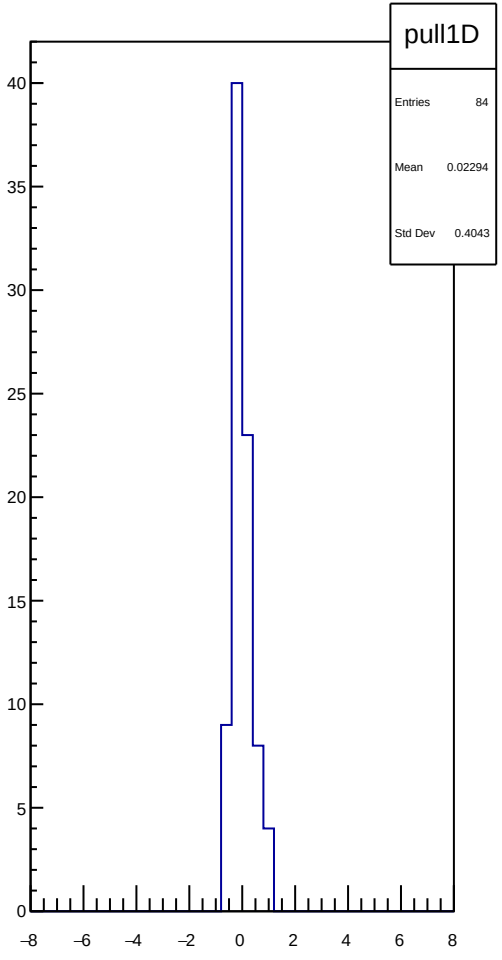

pull1D
Entries 84
Mean −0.007824
Std Dev 0.2867

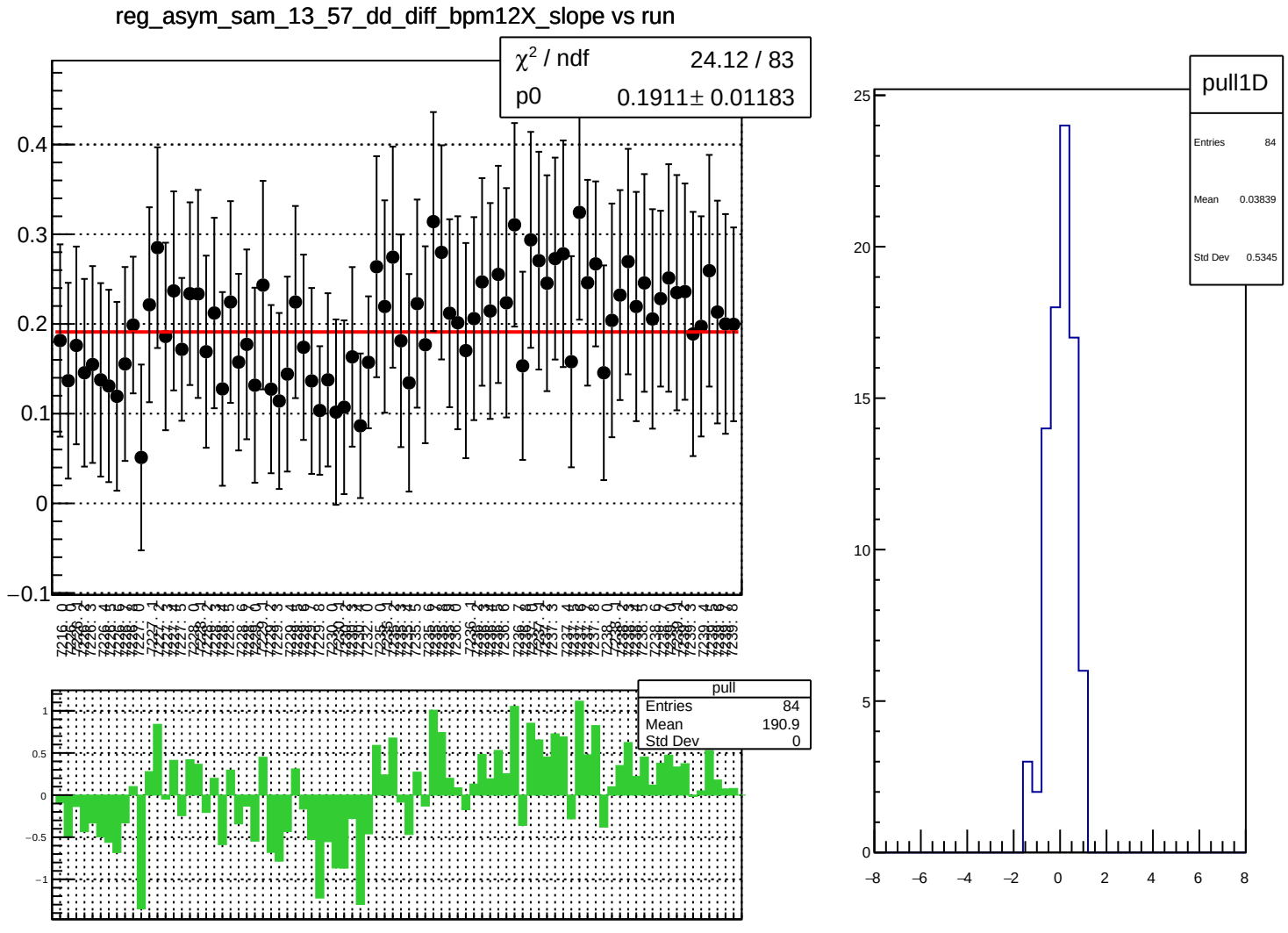

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.28 / 83
p0 −30.04 ± 0.2578
pull
Entries 84
Mean −64.74
Std Dev 0

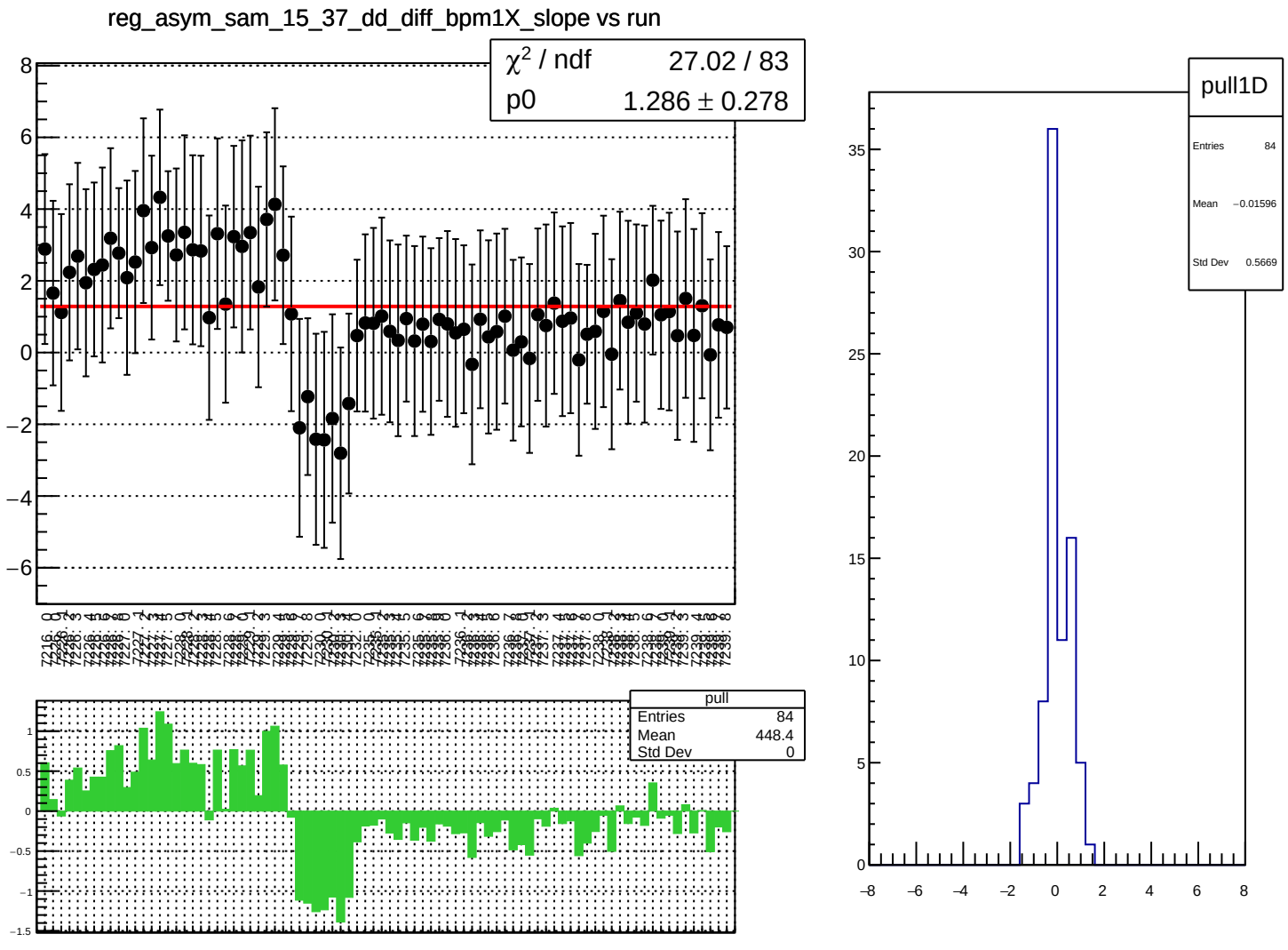

pull1D
Entries 84
Mean −0.0415
Std Dev 0.4383

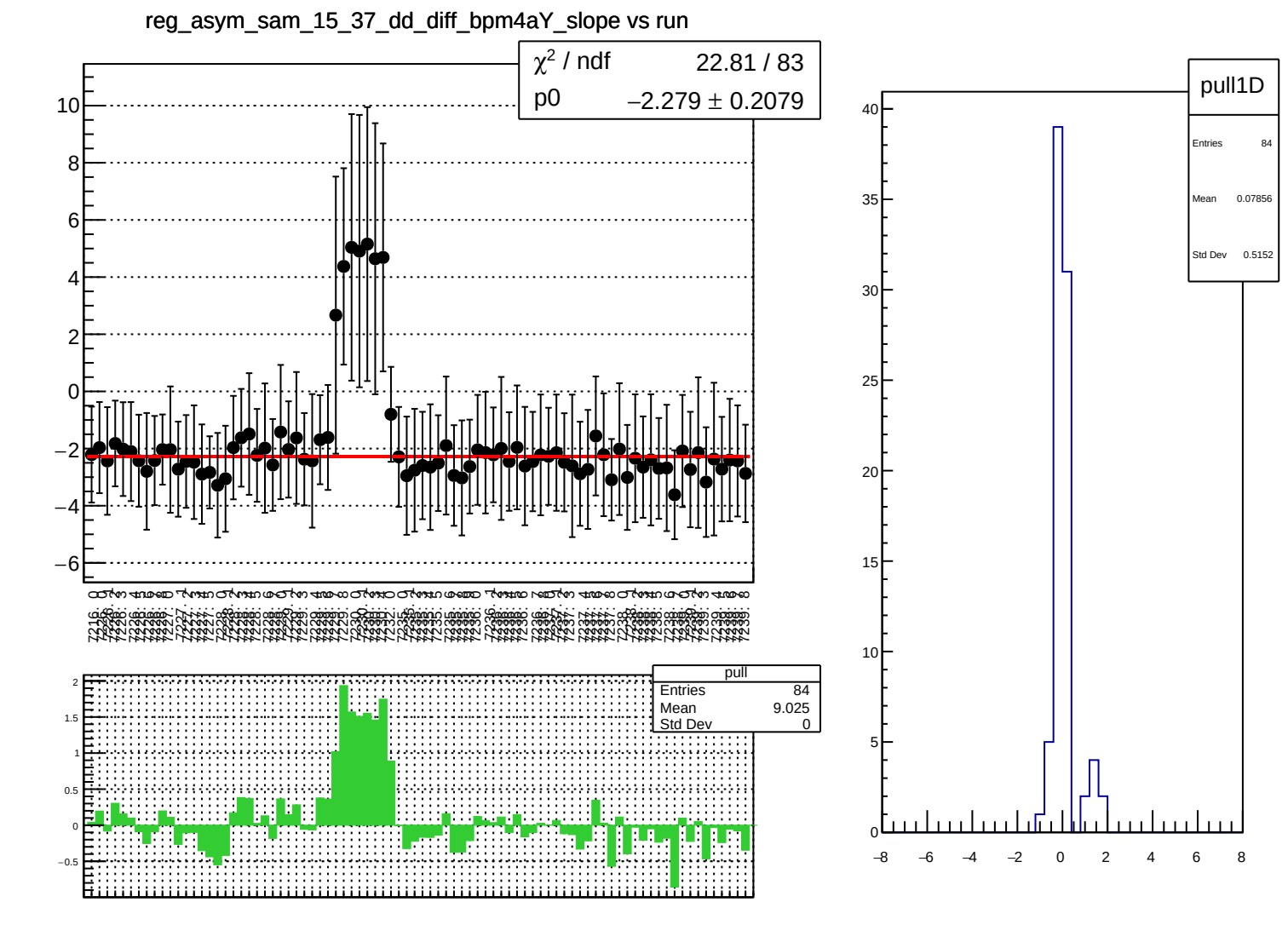

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.669 / 83
p0 −1.947 ± 0.3469
pull
Entries 84
Mean 307.4
Std Dev 0
pull1D
Entries 84
Mean 0.01126
Std Dev 0.3391

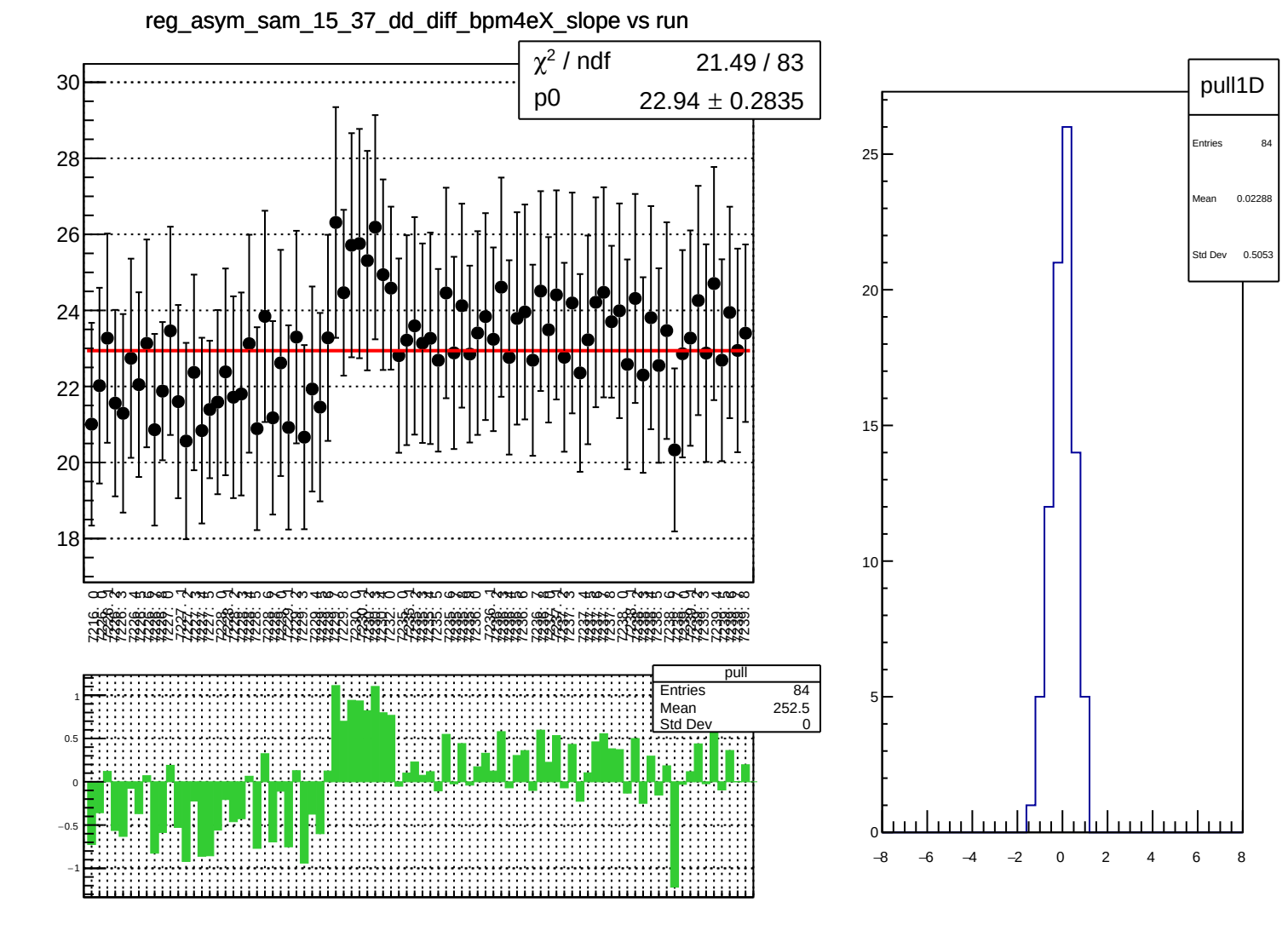

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.77 / 83
p0 −10.39 ± 0.2827
pull
Entries 84
Mean −169.8
Std Dev 0

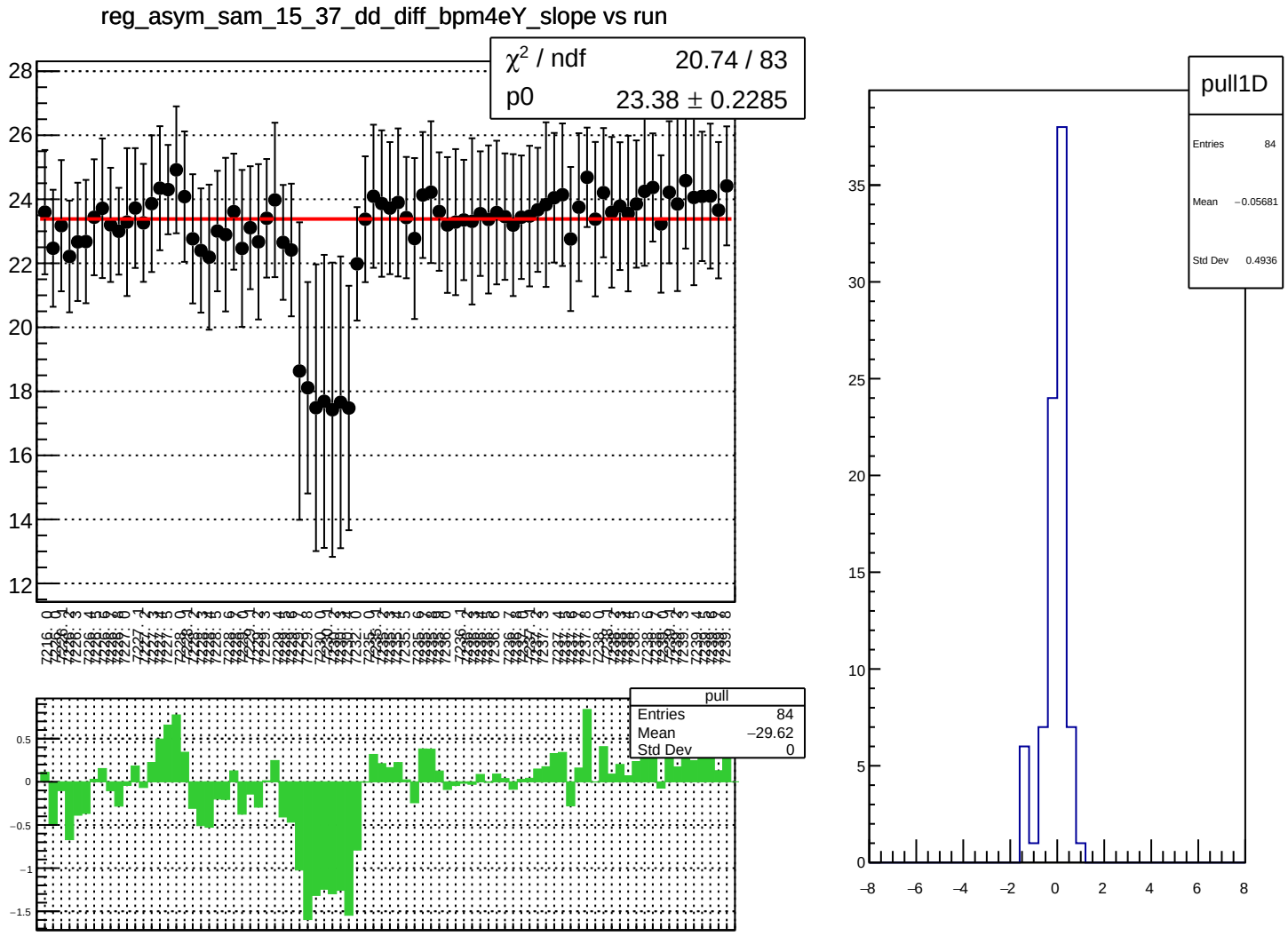

pull1D
Entries 84
Mean 0.02294
Std Dev 0.4043

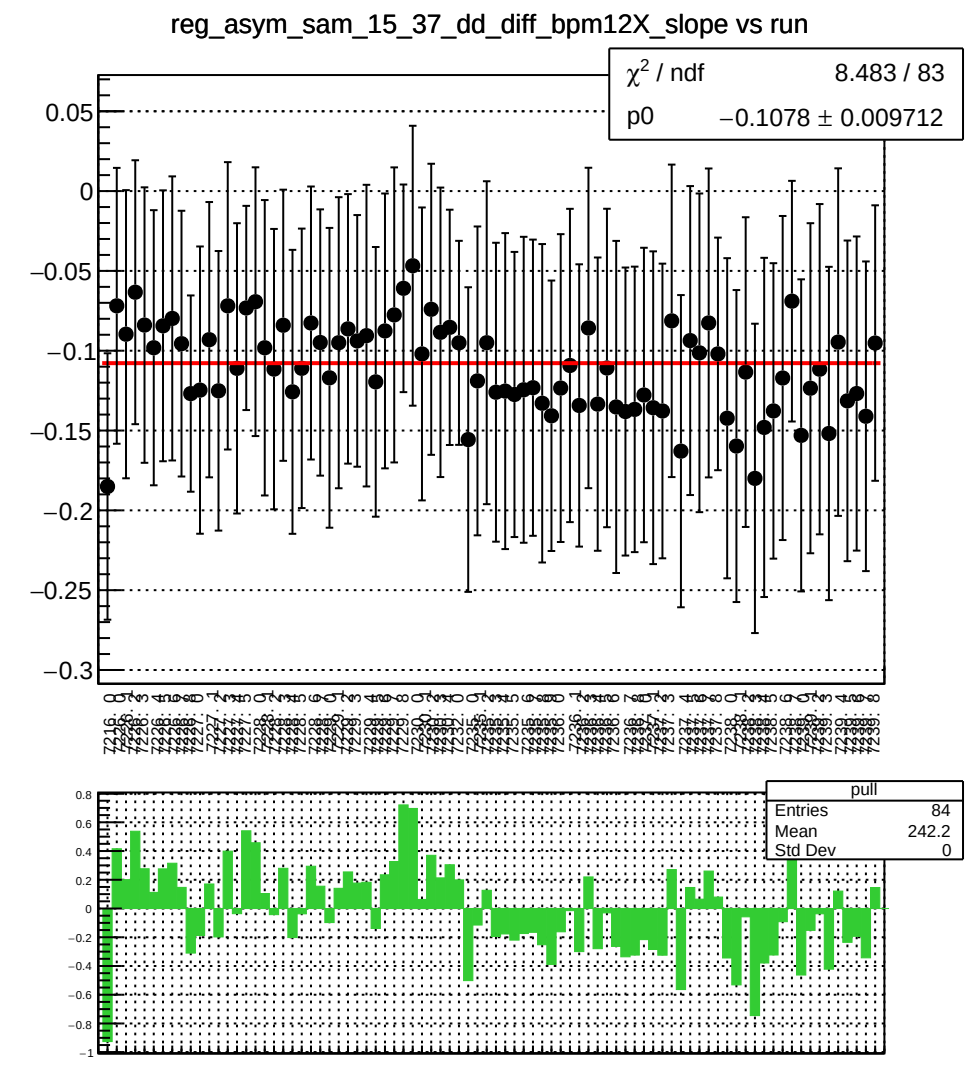

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 24.12 / 83
p0 0.1911± 0.01183
pull
Entries 84
Mean 190.9
Std Dev 0
pull1D
Entries 84
Mean 0.03839
Std Dev 0.5345

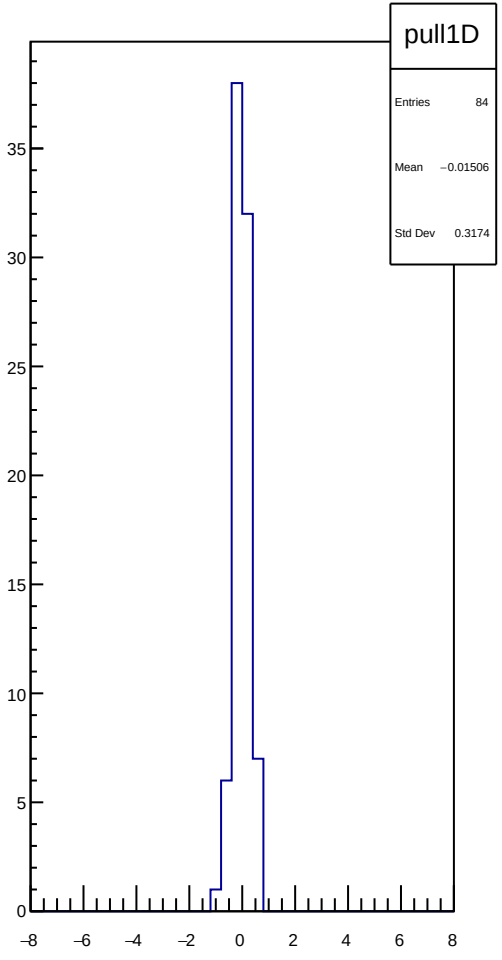

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 27.02 / 83
p0 1.286 ± 0.278
pull
Entries 84
Mean 448.4
Std Dev 0
pull1D
Entries 84
Mean −0.01596
Std Dev 0.5669

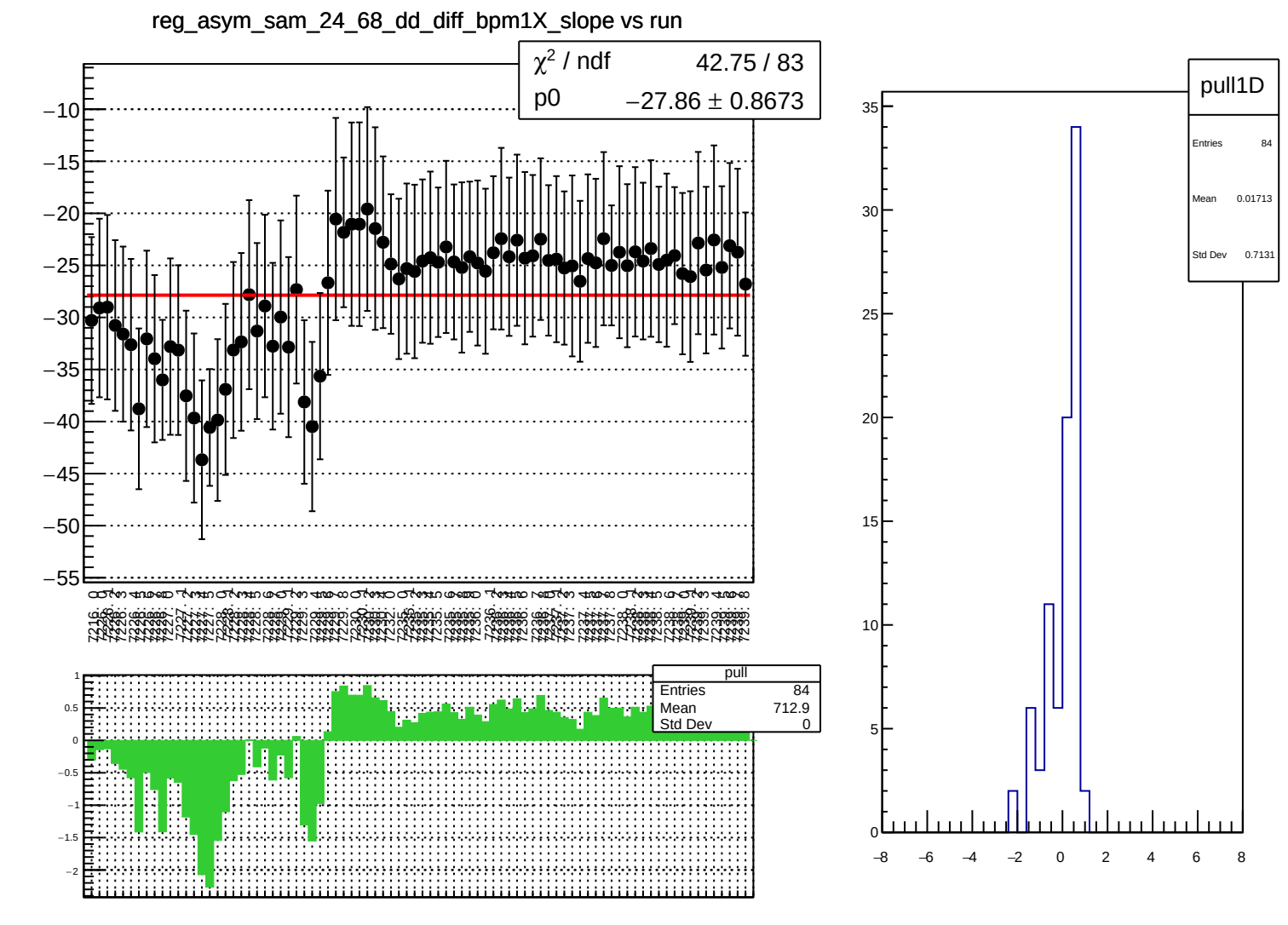

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 22.81 / 83
p0 −2.279 ± 0.2079
pull
Entries 84
Mean 9.025
Std Dev 0
pull1D
Entries 84
Mean 0.07856
Std Dev 0.5152

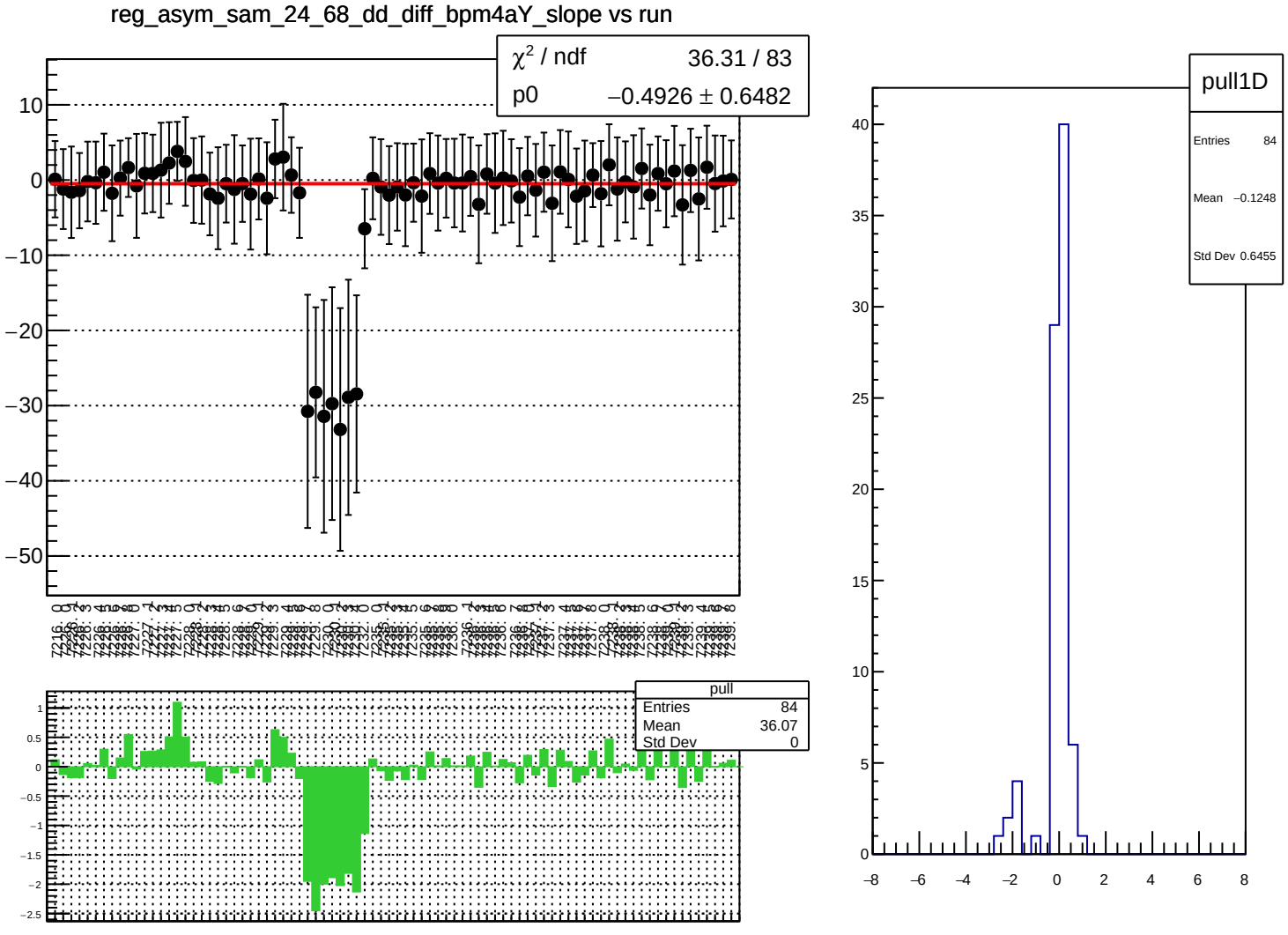

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 21.49 / 83
p0 22.94 ± 0.2835
pull
Entries 84
Mean 252.5
Std Dev 0
pull1D
Entries 84
Mean 0.02288
Std Dev 0.5053

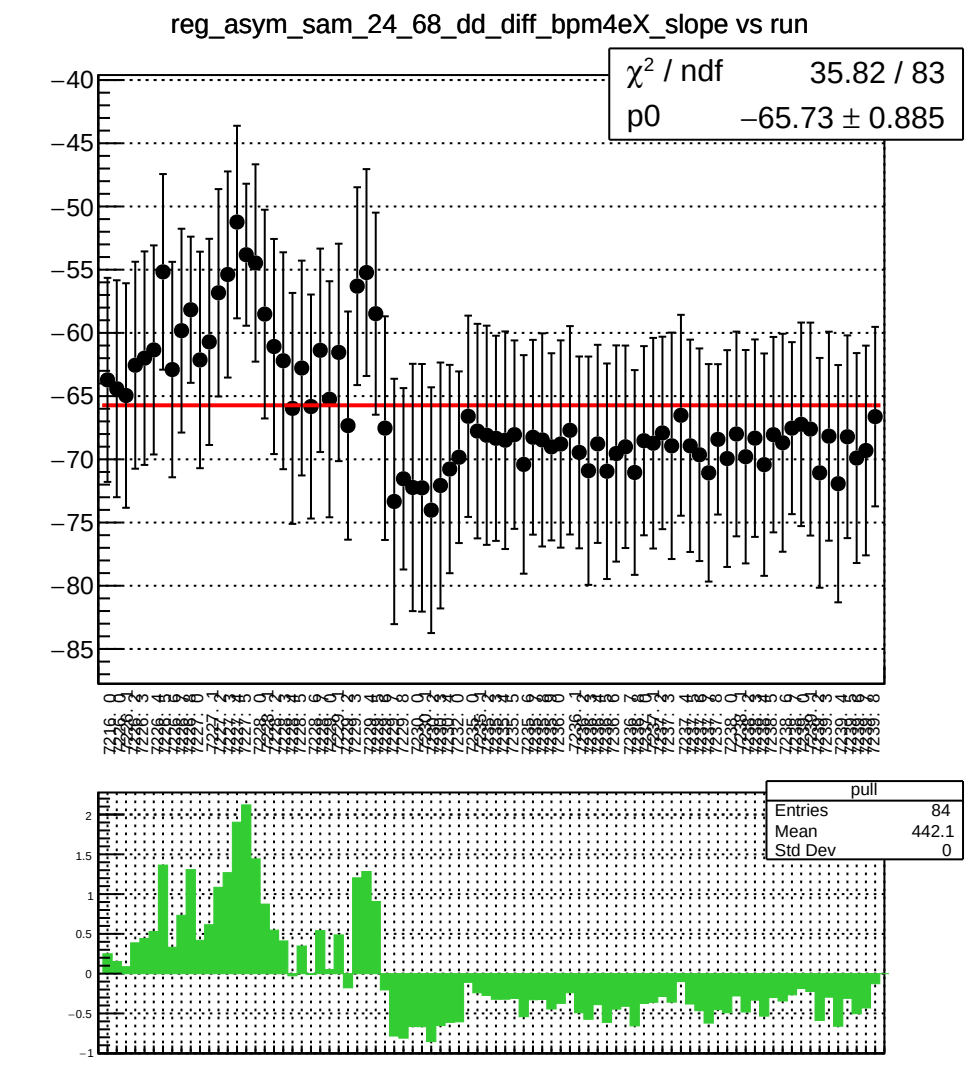

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.74 / 83
p0 23.38 ± 0.2285
pull
Entries 84
Mean −29.62
Std Dev 0
pull1D
Entries 84
Mean −0.05681
Std Dev 0.4936

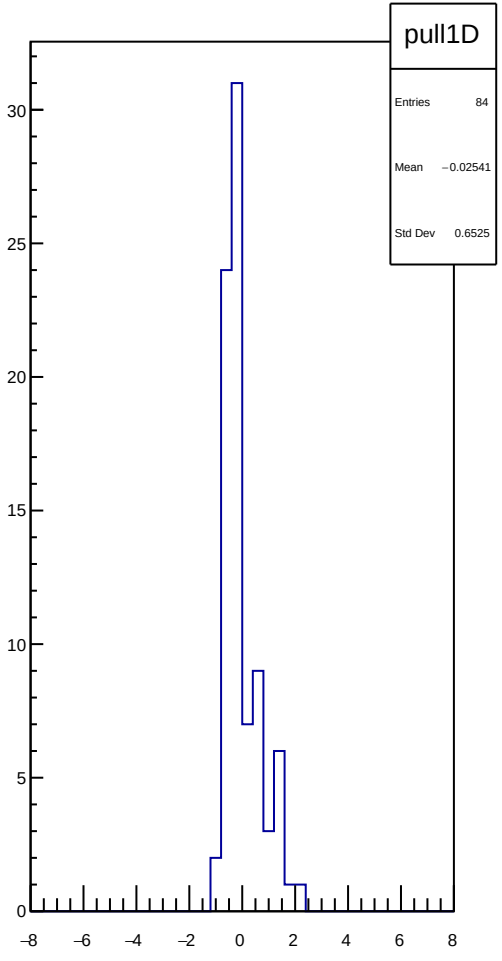

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 8.483 / 83
p0 −0.1078 ± 0.009712
pull
Entries 84
Mean 242.2
Std Dev 0

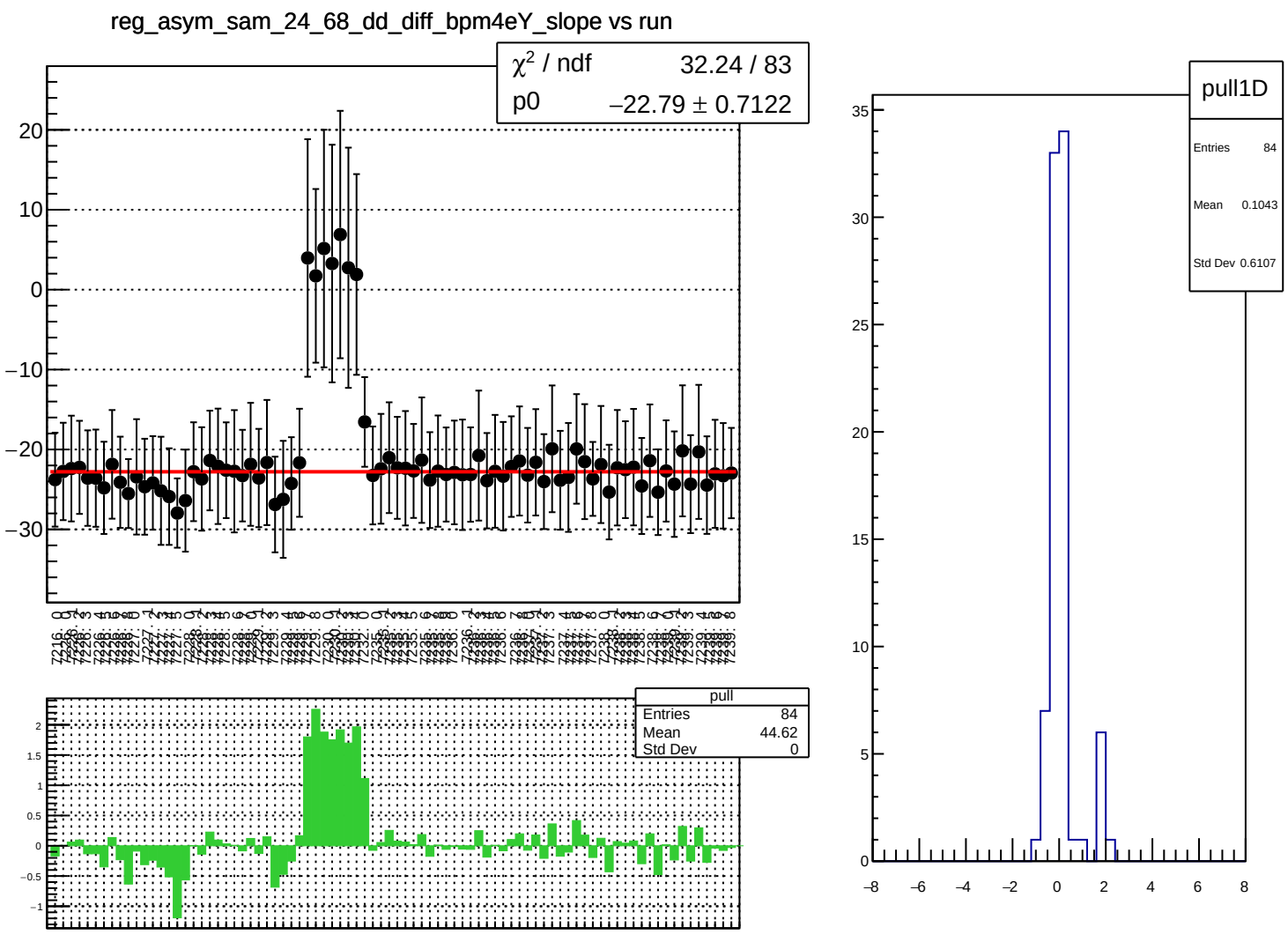

pull1D
Entries 84
Mean −0.01506
Std Dev 0.3174

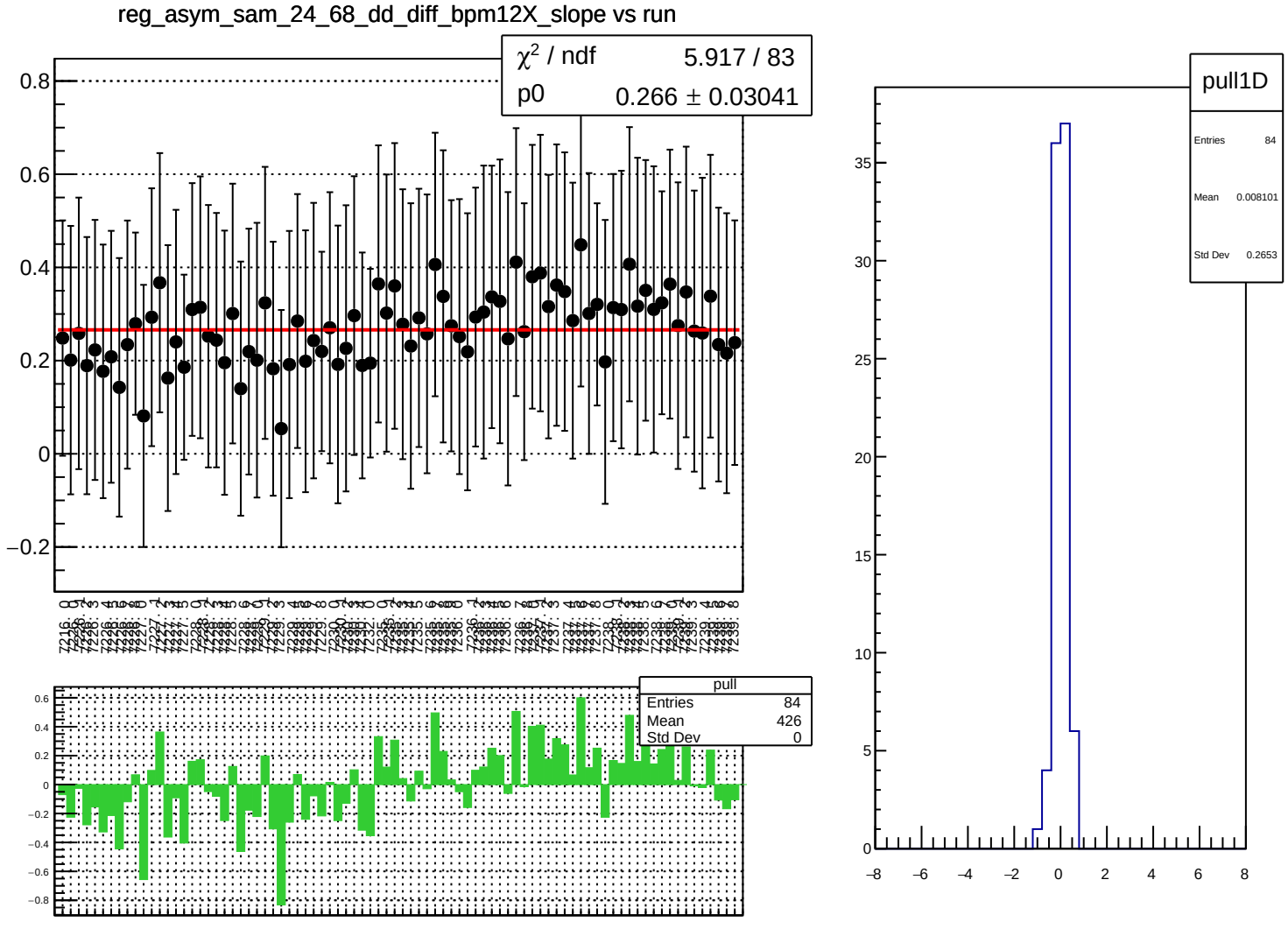

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 42.75 / 83
p0 −27.86 ± 0.8673
pull
Entries 84
Mean 712.9
Std Dev 0
pull1D
Entries 84
Mean 0.01713
Std Dev 0.7131

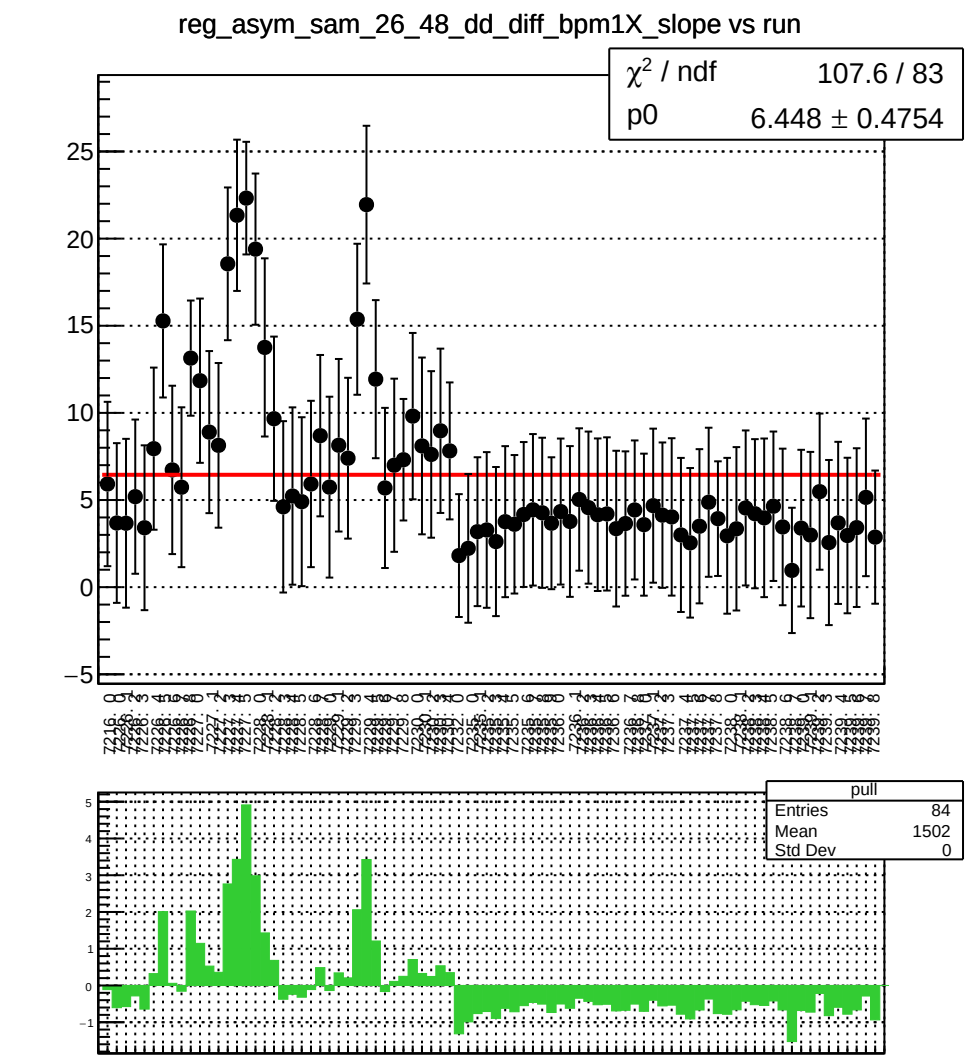

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 36.31 / 83
p0 −0.4926 ± 0.6482
pull
Entries 84
Mean 36.07
Std Dev 0
pull1D
Entries 84
Mean −0.1248
Std Dev 0.6455

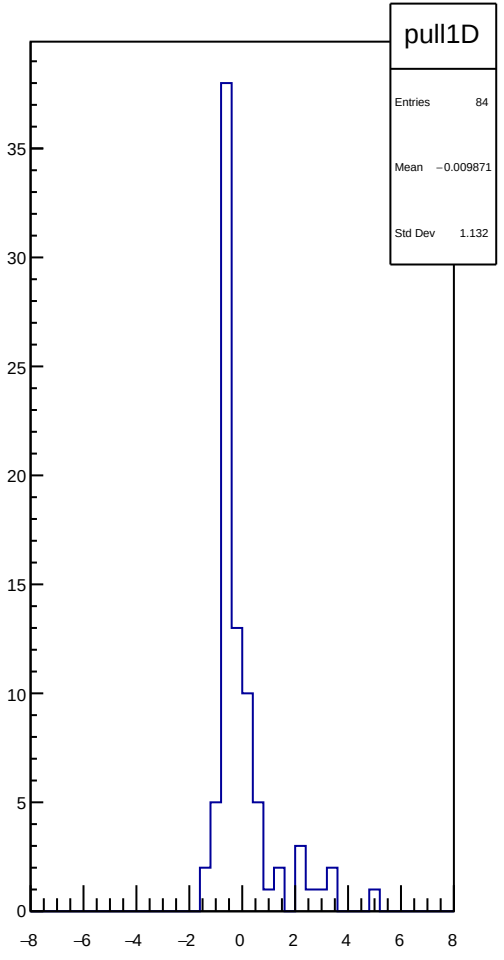

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 35.82 / 83
p0 −65.73 ± 0.885
pull
Entries 84
Mean 442.1
Std Dev 0

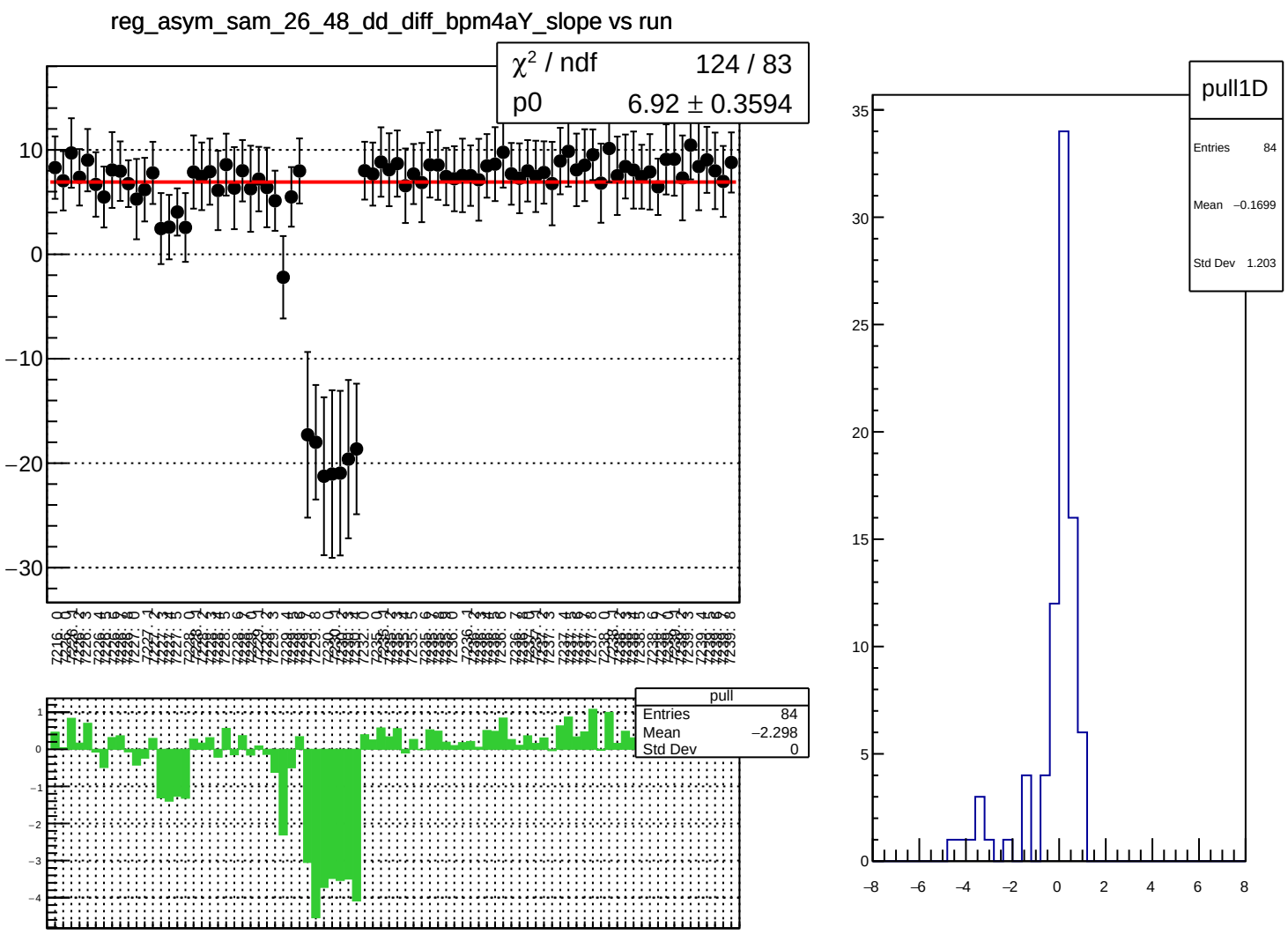

pull1D
Entries 84
Mean −0.02541
Std Dev 0.6525

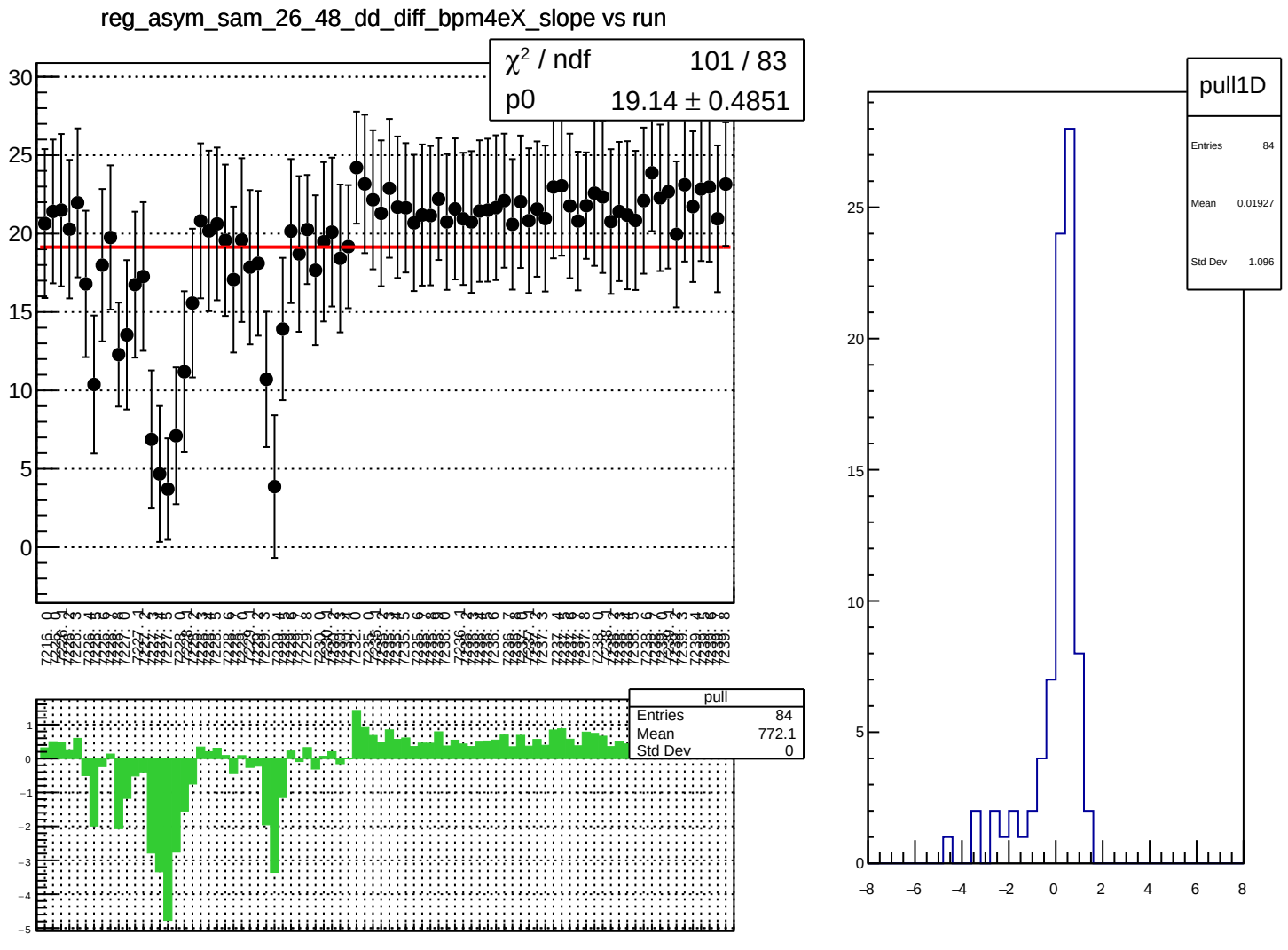

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 32.24 / 83
p0 −22.79 ± 0.7122
pull
Entries 84
Mean 44.62
Std Dev 0
pull1D
Entries 84
Mean 0.1043
Std Dev 0.6107

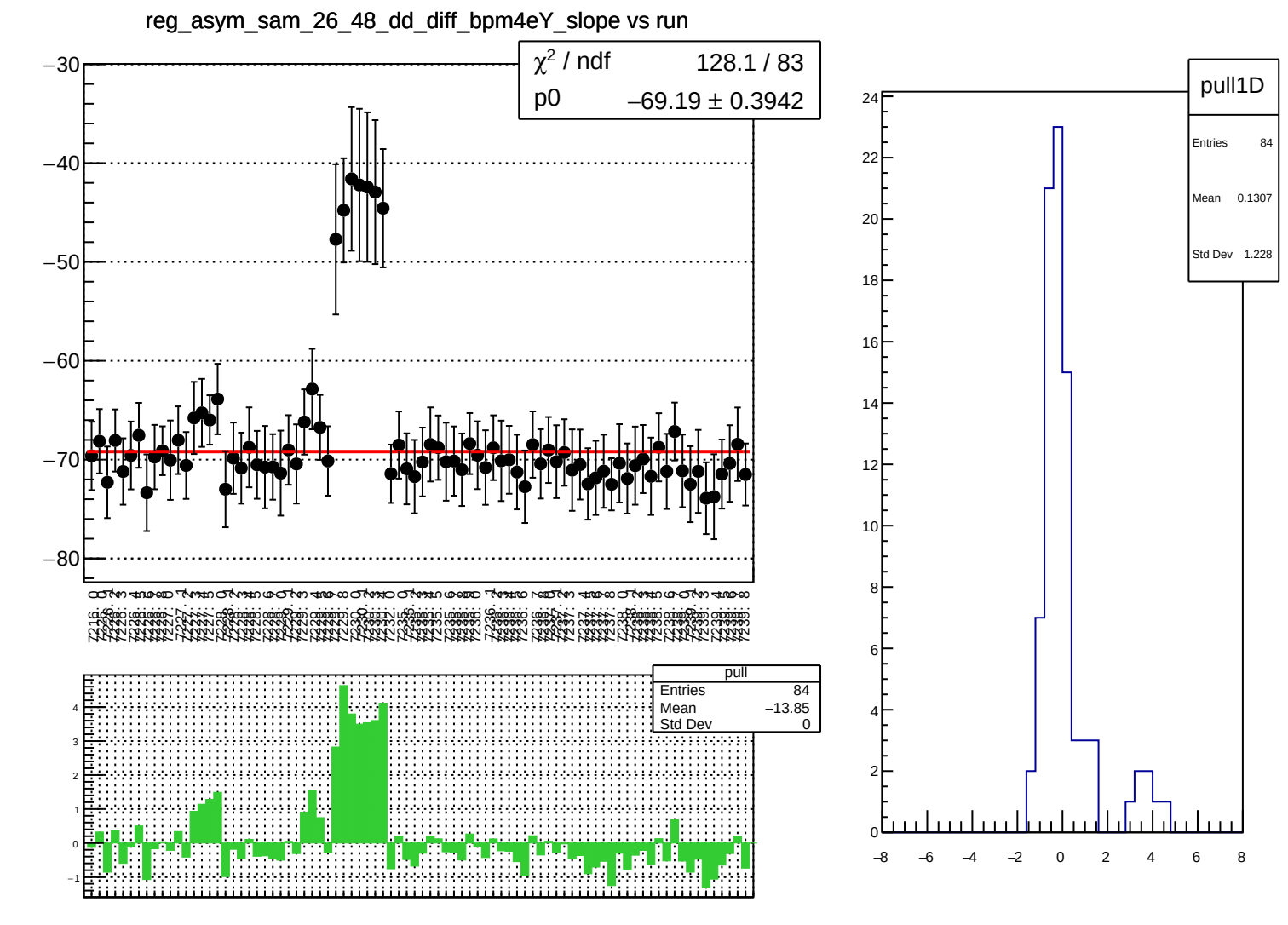

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 5.917 / 83
p0 0.266 ± 0.03041
pull
Entries 84
Mean 426
Std Dev 0
pull1D
Entries 84
Mean 0.008101
Std Dev 0.2653

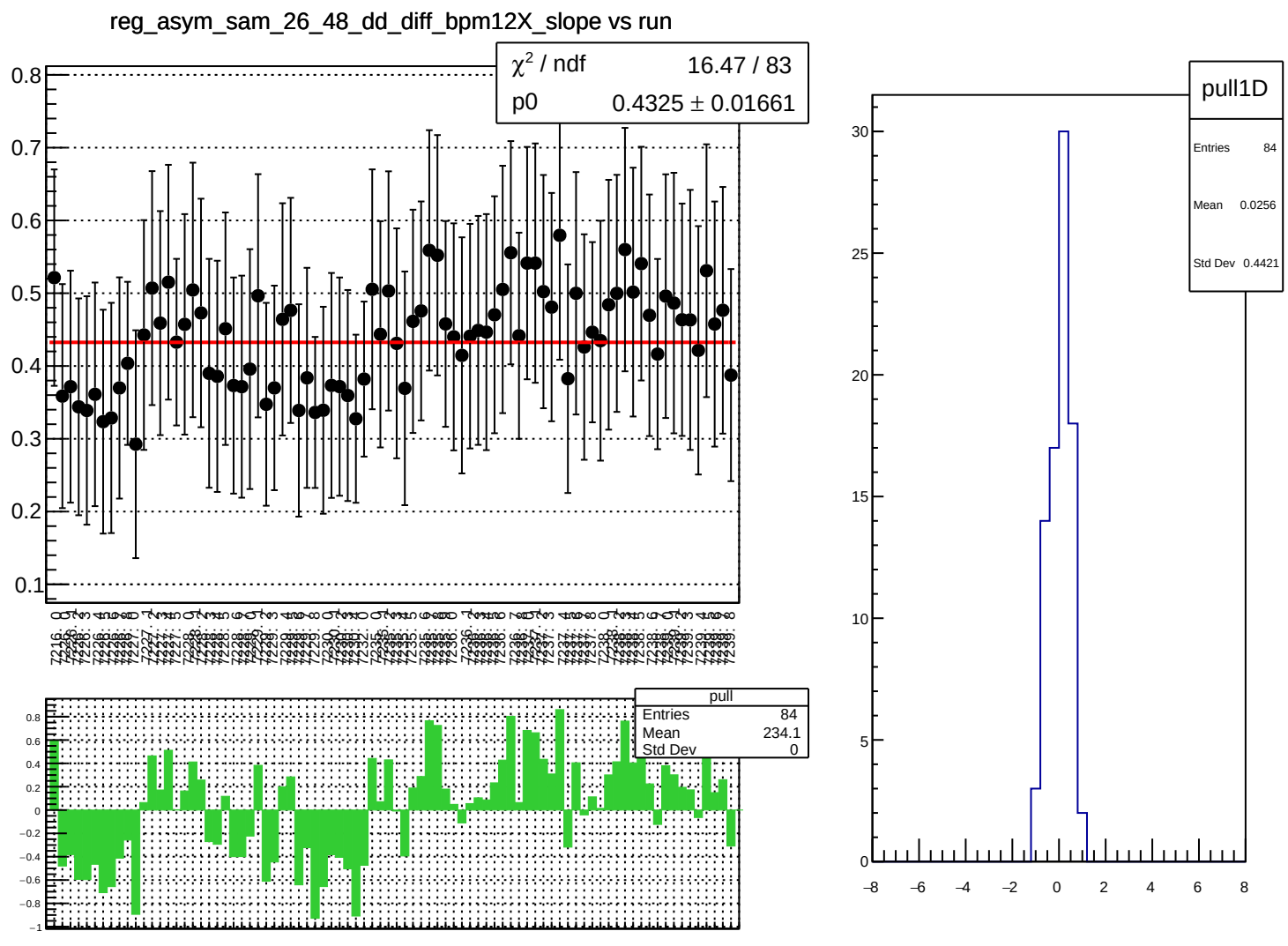

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 107.6 / 83
p0 6.448 ± 0.4754
pull
Entries 84
Mean 1502
Std Dev 0

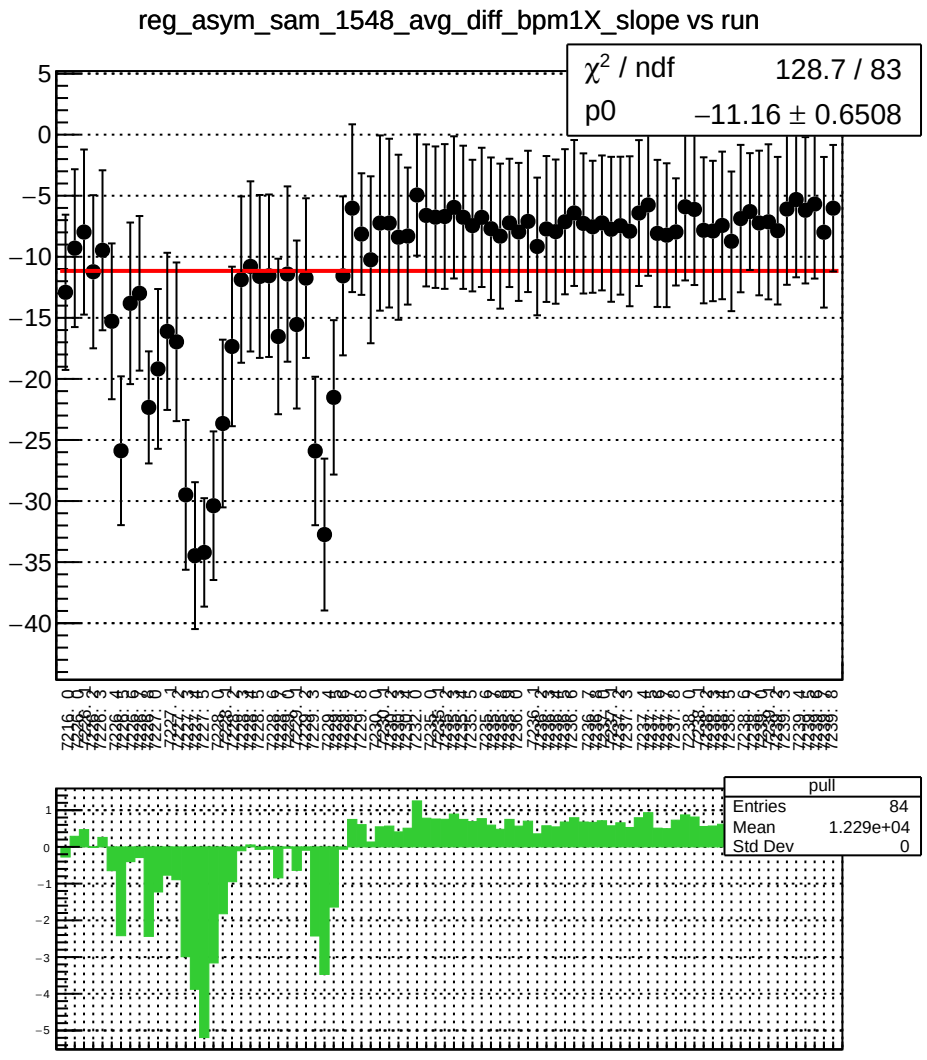

pull1D
Entries 84
Mean −0.009871
Std Dev 1.132

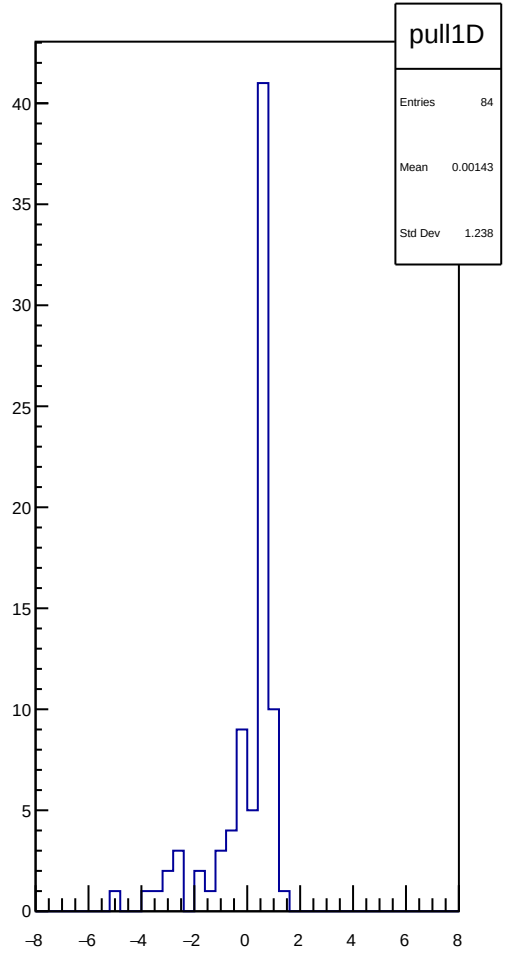

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 124 / 83
p0 6.92 ± 0.3594
pull
Entries 84
Mean −2.298
Std Dev 0
pull1D
Entries 84
Mean −0.1699
Std Dev 1.203

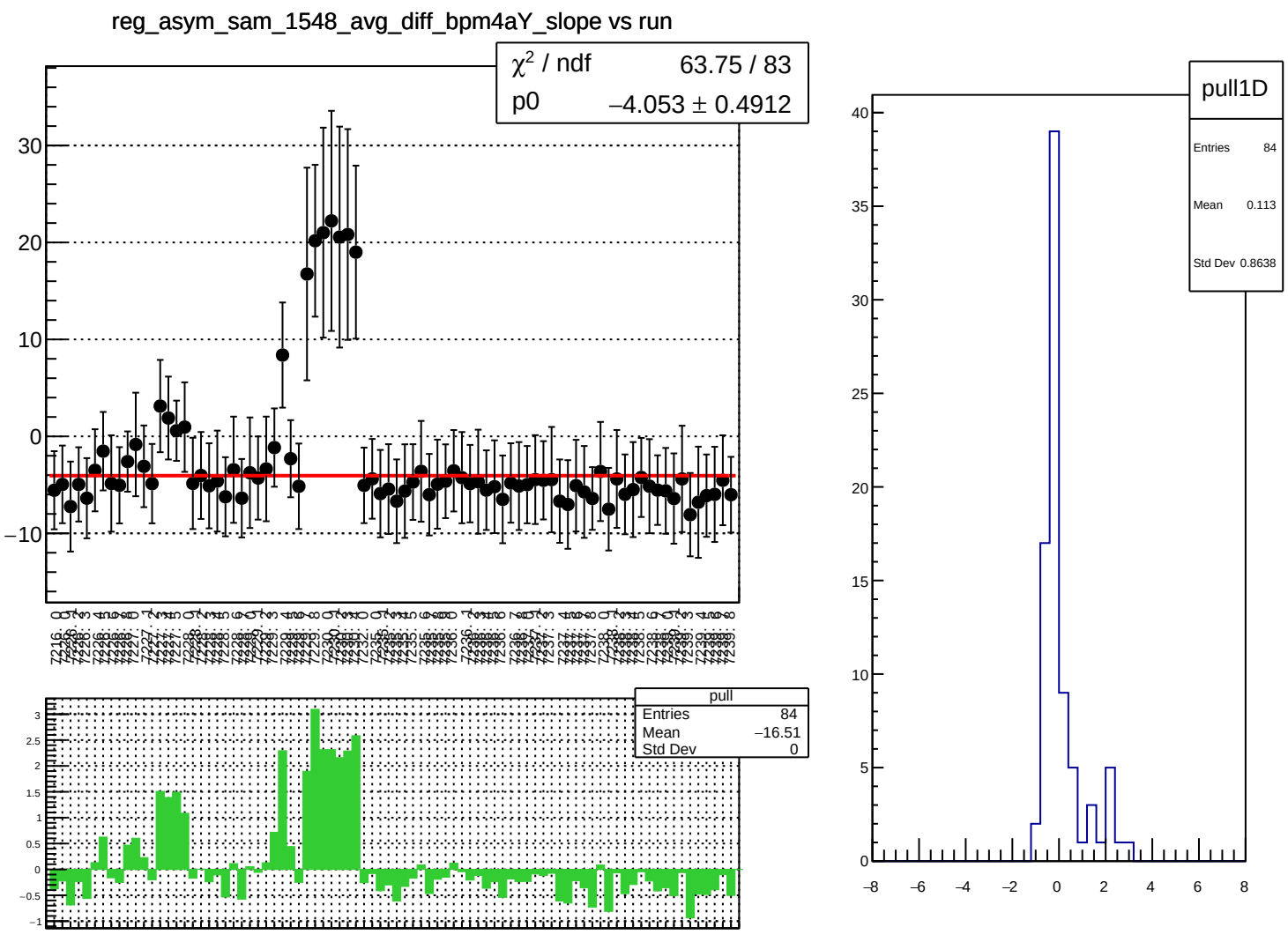

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 101 / 83
p0 19.14 ± 0.4851
pull
Entries 84
Mean 772.1
Std Dev 0
pull1D
Entries 84
Mean 0.01927
Std Dev 1.096

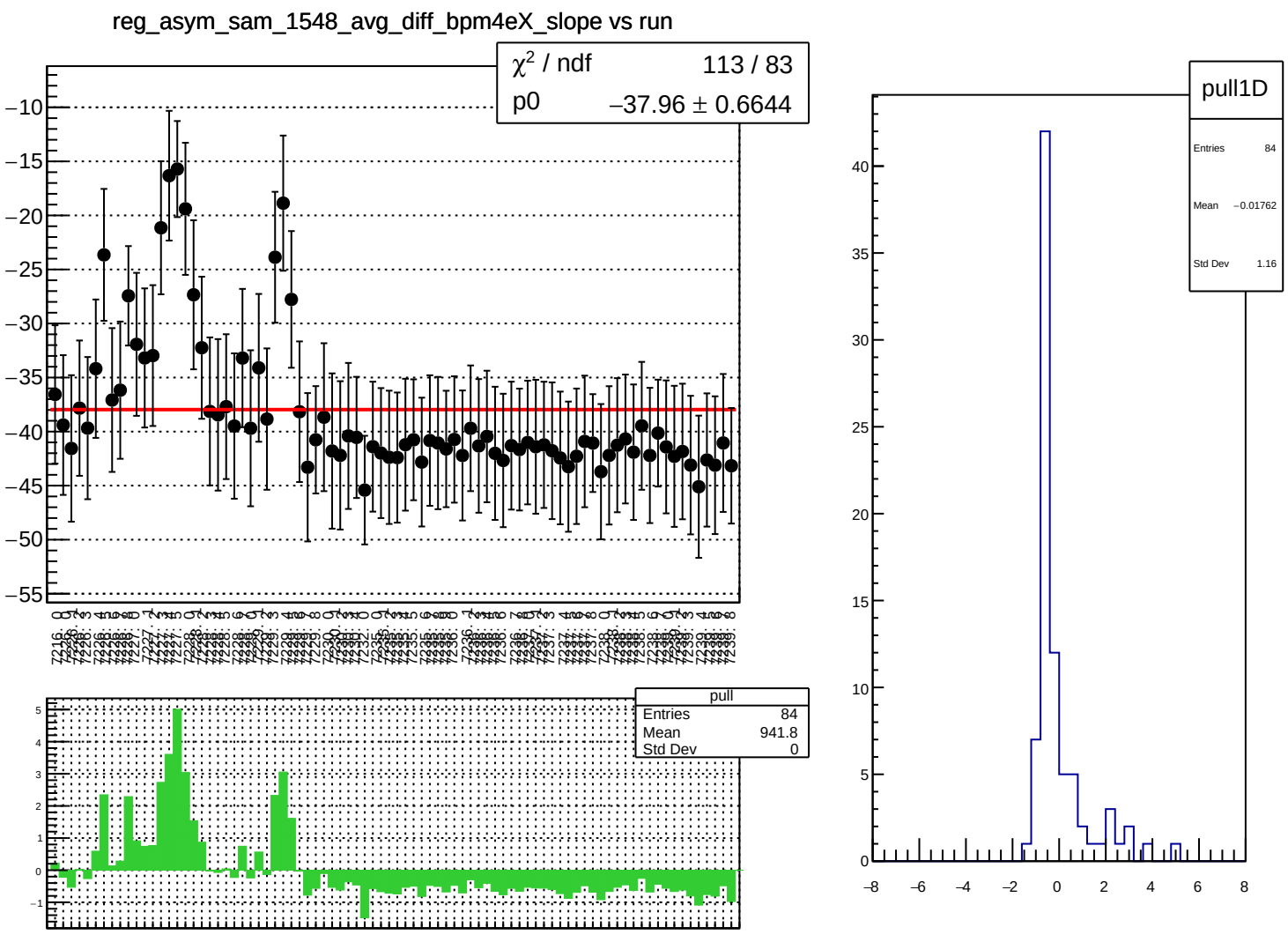

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 128.1 / 83
p0 −69.19 ± 0.3942
pull
Entries 84
Mean −13.85
Std Dev 0
pull1D
Entries 84
Mean 0.1307
Std Dev 1.228

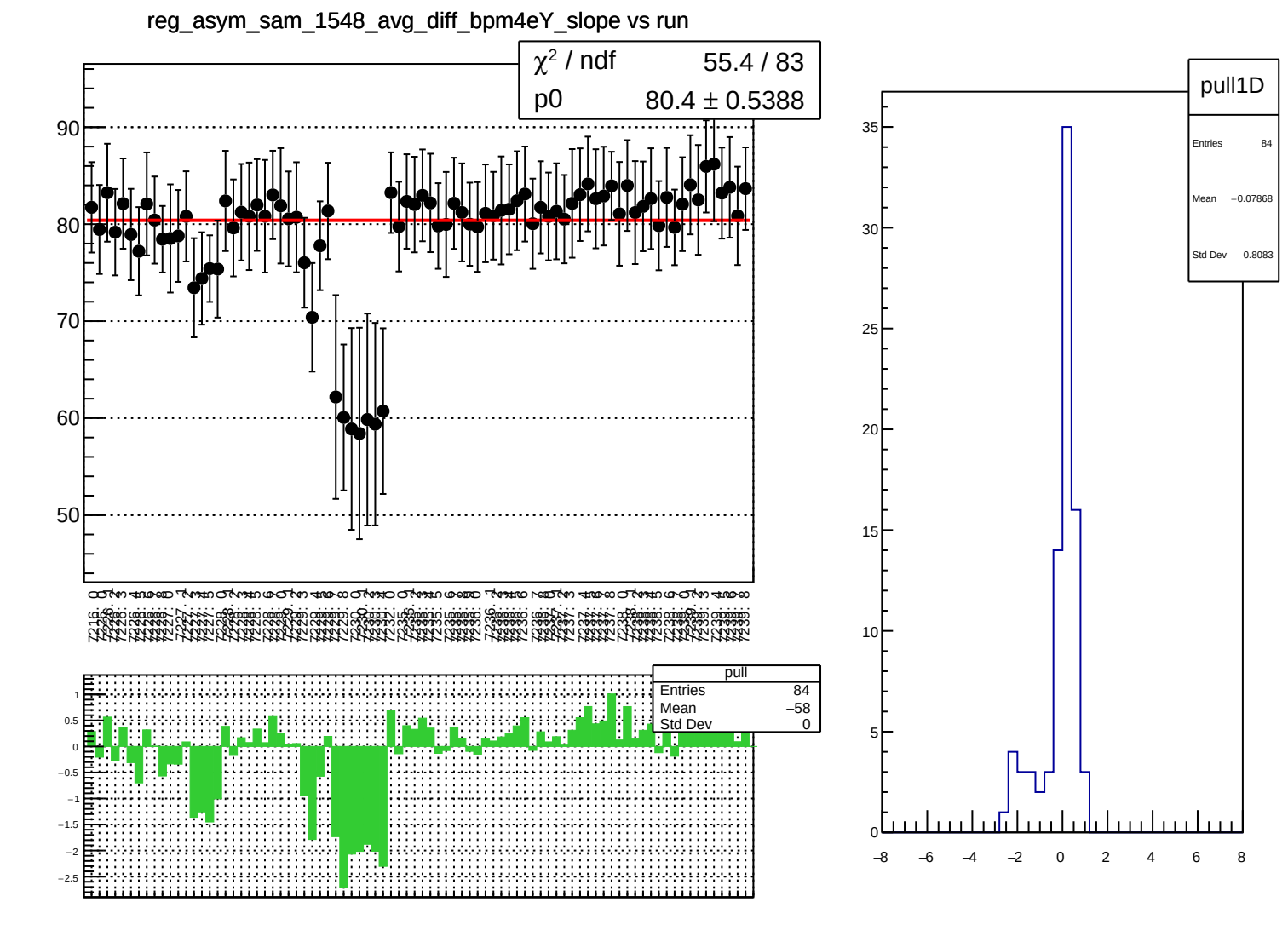

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 16.47 / 83
p0 0.4325 ± 0.01661
pull
Entries 84
Mean 234.1
Std Dev 0
pull1D
Entries 84
Mean 0.0256
Std Dev 0.4421

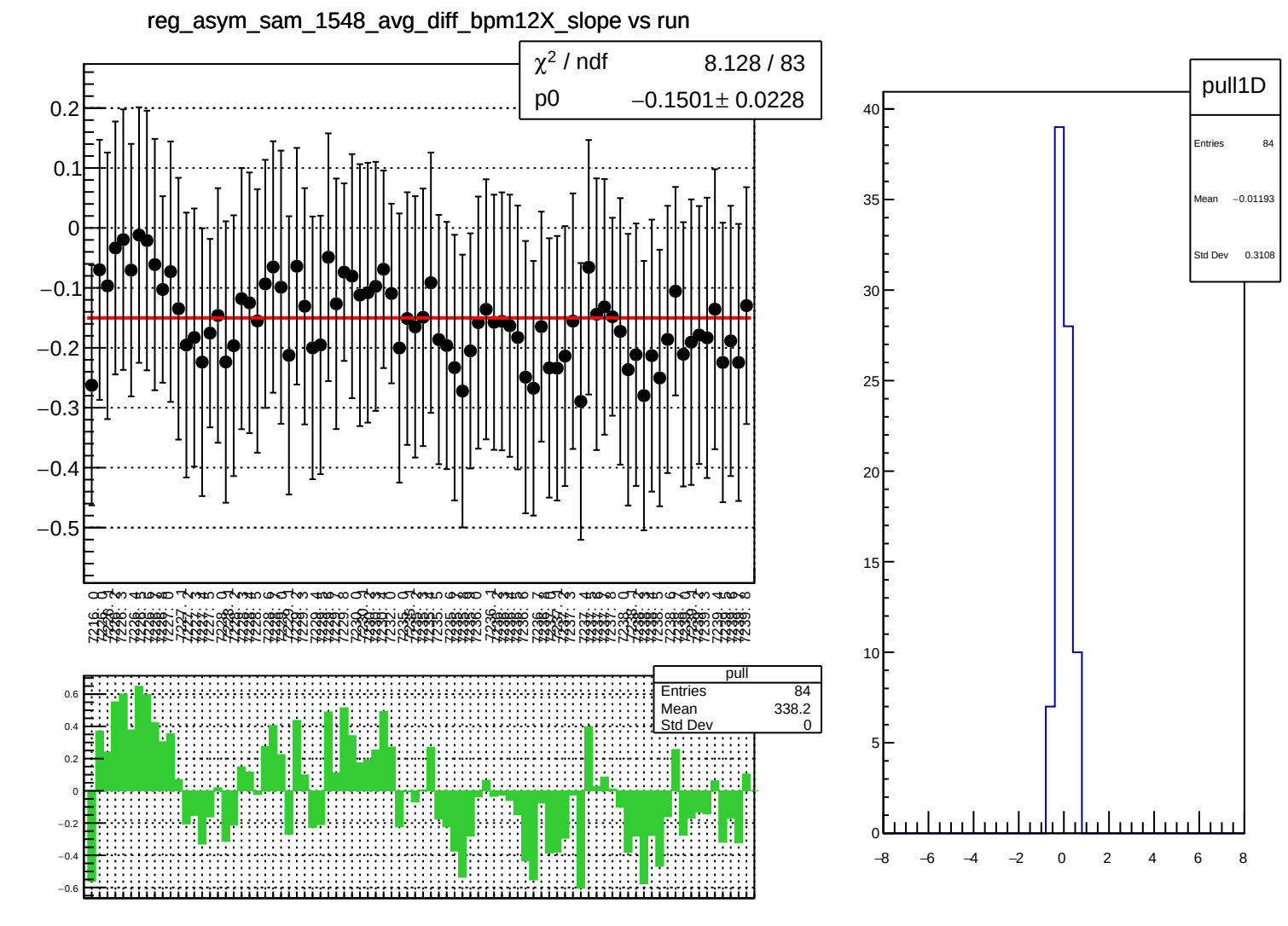

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 128.7 / 83
p0 −11.16 ± 0.6508
pull
Entries 84
Mean 1.229e+04
Std Dev 0

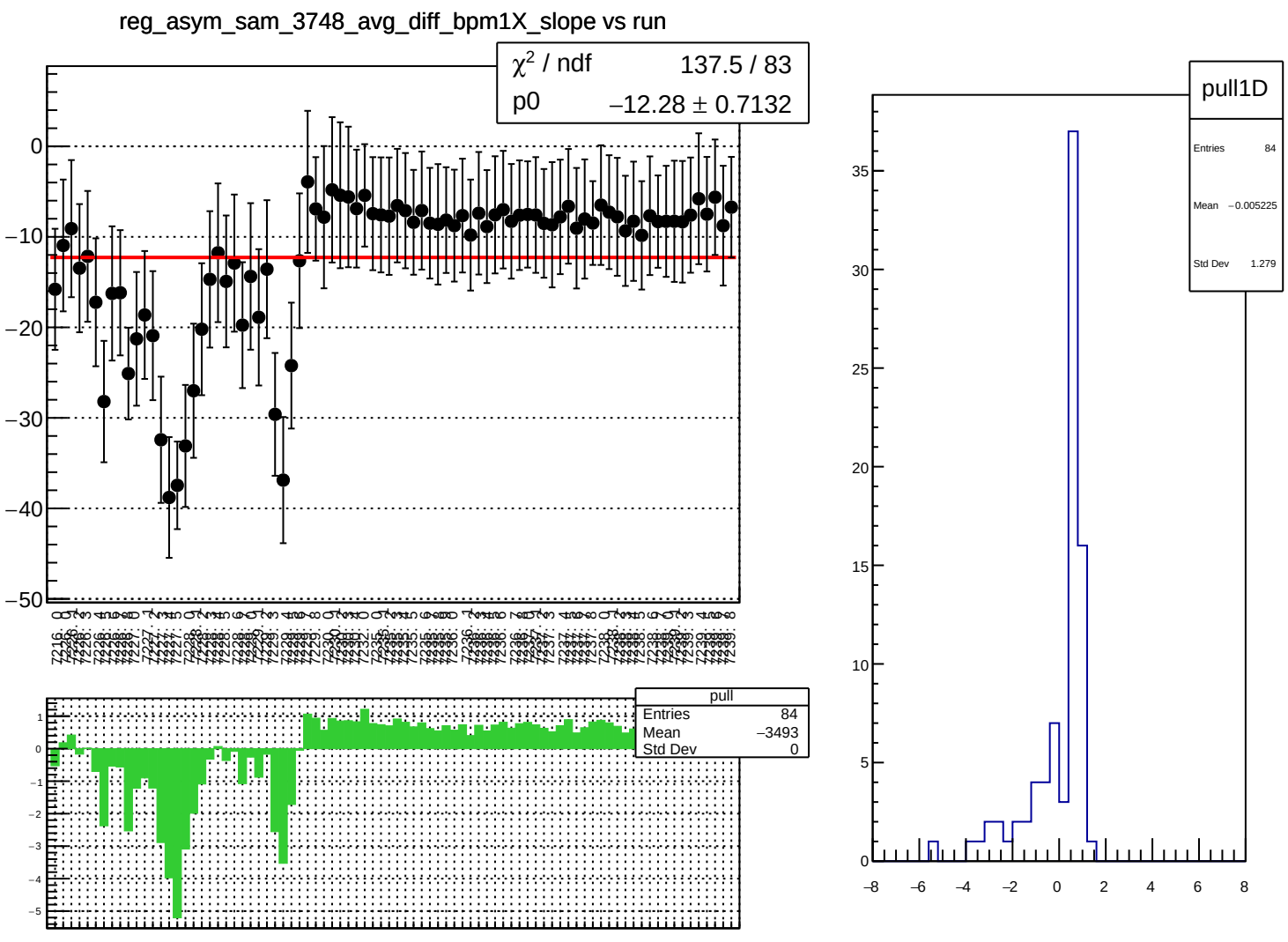

pull1D
Entries 84
Mean 0.00143
Std Dev 1.238

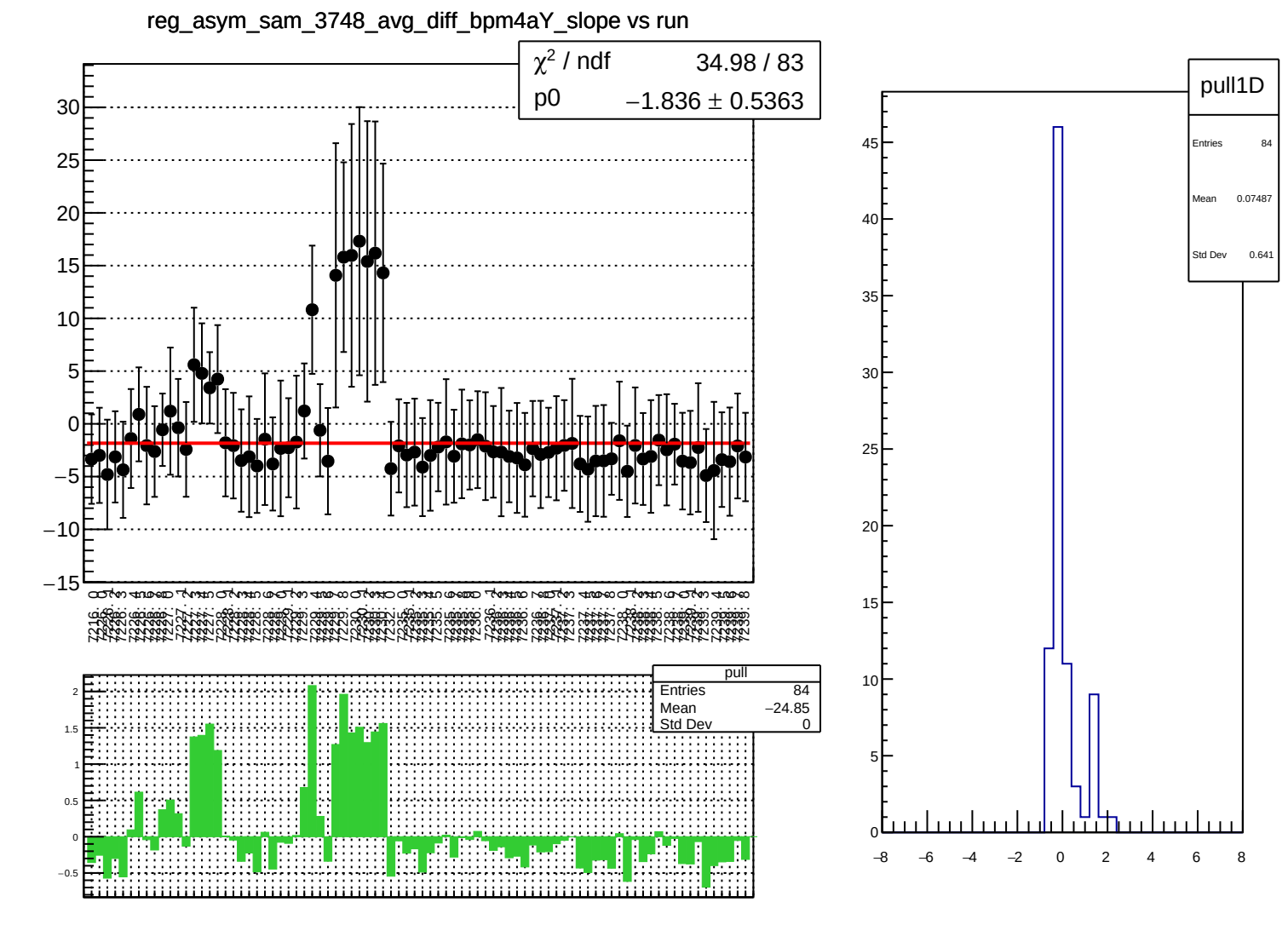

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 63.75 / 83
p0 −4.053 ± 0.4912
pull
Entries 84
Mean −16.51
Std Dev 0
pull1D
Entries 84
Mean 0.113
Std Dev 0.8638

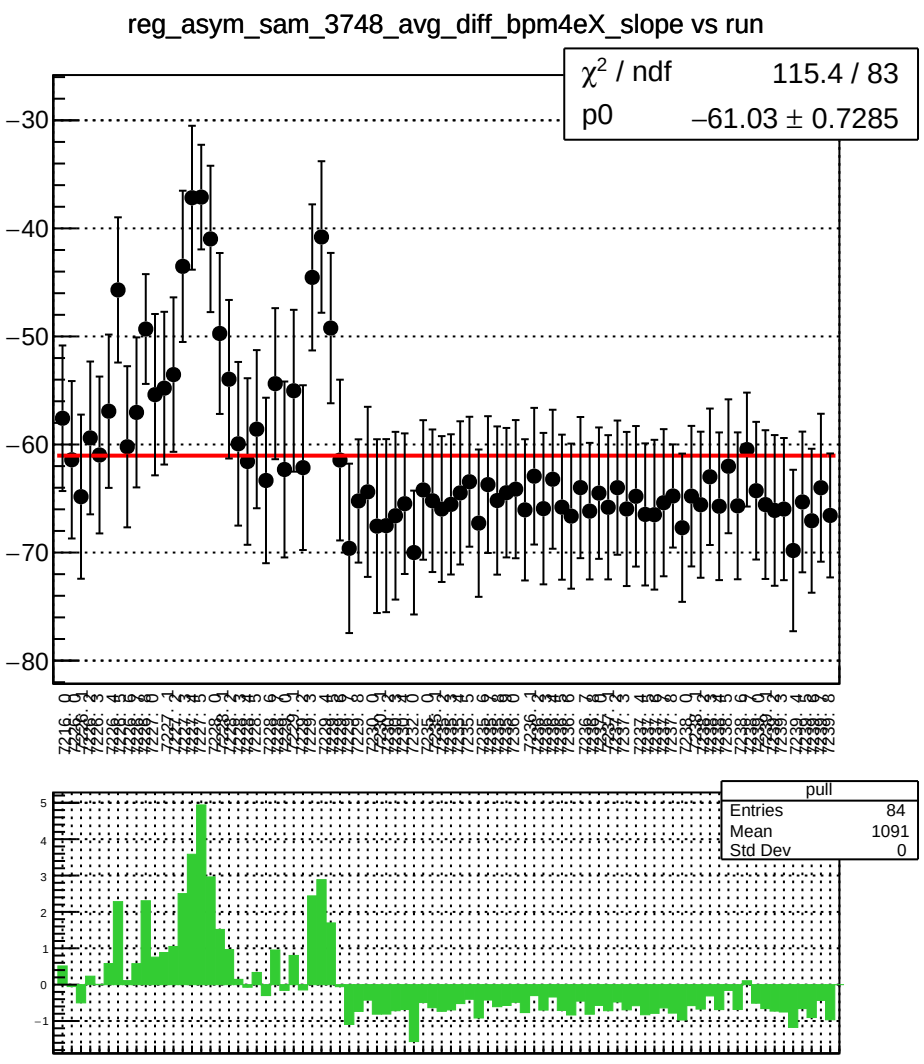

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 113 / 83
p0 −37.96 ± 0.6644
pull
Entries 84
Mean 941.8
Std Dev 0
pull1D
Entries 84
Mean −0.01762
Std Dev 1.16

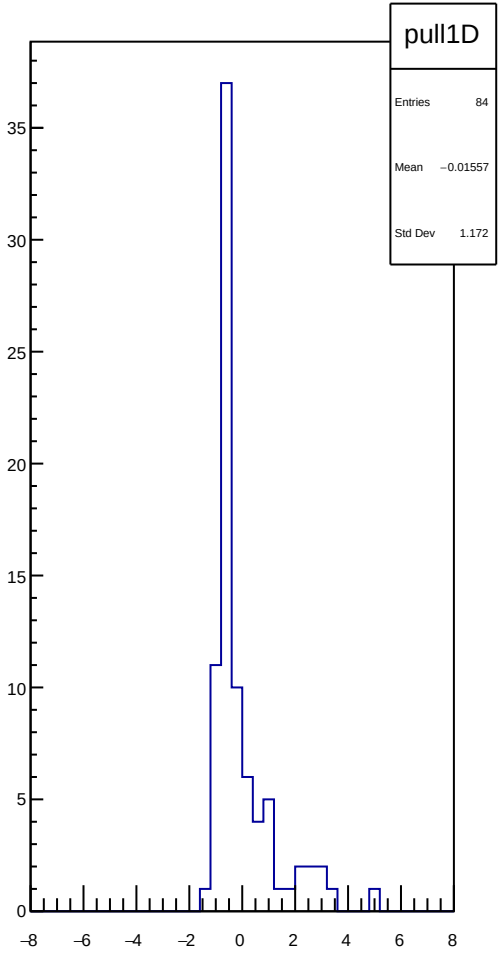

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 55.4 / 83
p0 80.4 ± 0.5388
pull
Entries 84
Mean −58
Std Dev 0
pull1D
Entries 84
Mean −0.07868
Std Dev 0.8083

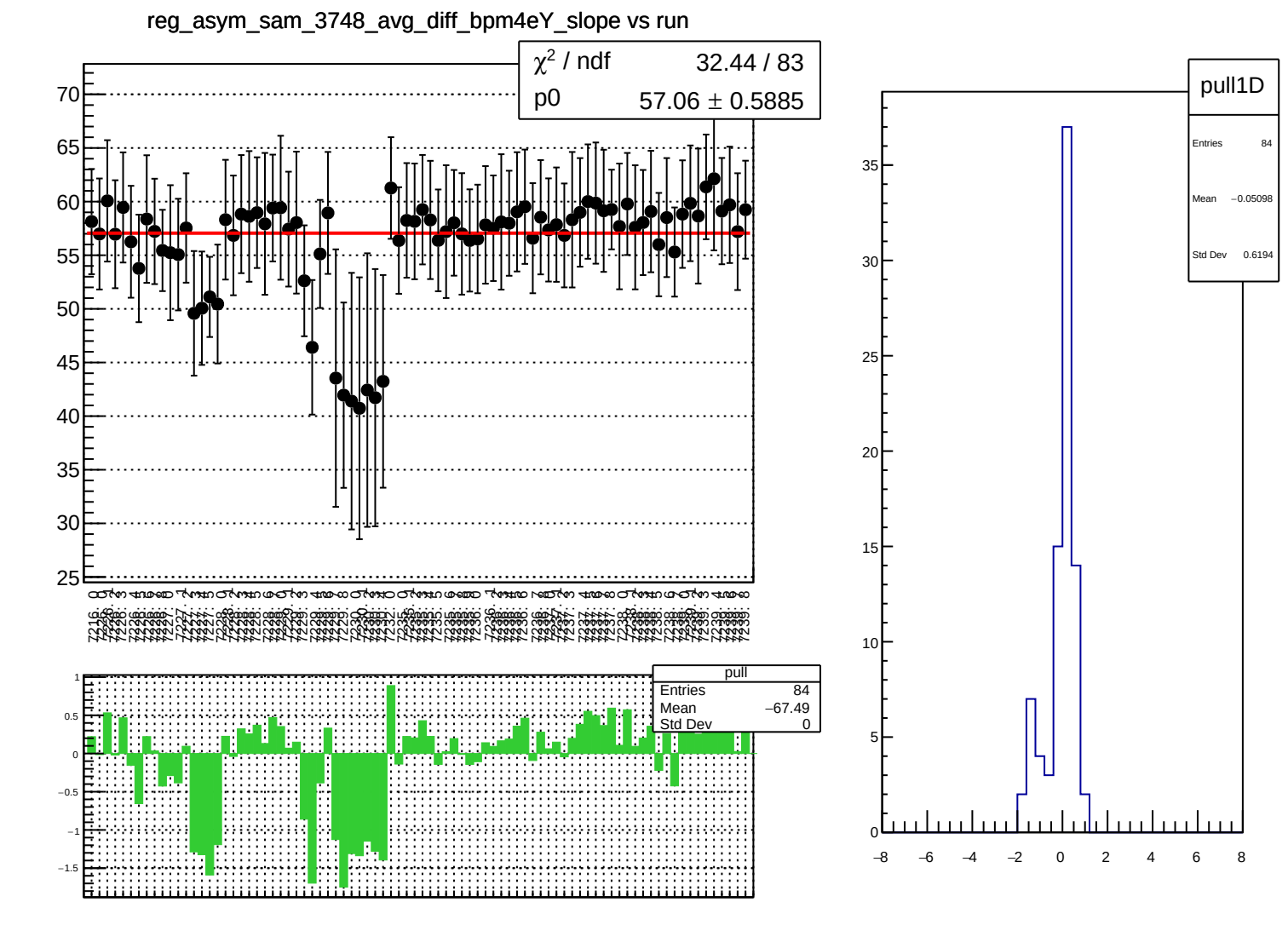

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 8.128 / 83
p0 −0.1501± 0.0228
pull
Entries 84
Mean 338.2
Std Dev 0
pull1D
Entries 84
Mean −0.01193
Std Dev 0.3108

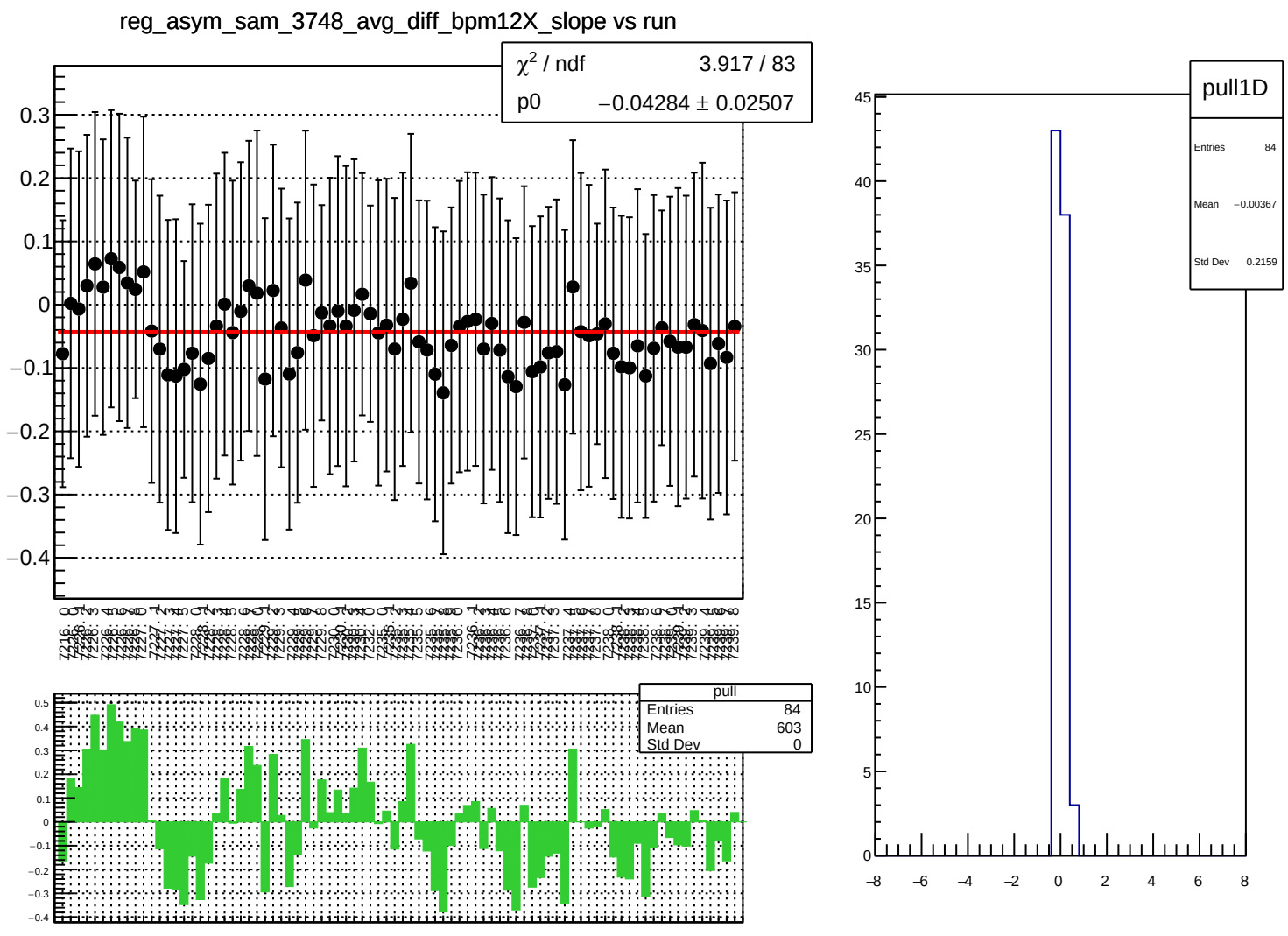

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 137.5 / 83
p0 −12.28 ± 0.7132
pull
Entries 84
Mean −3493
Std Dev 0
pull1D
Entries 84
Mean −0.005225
Std Dev 1.279

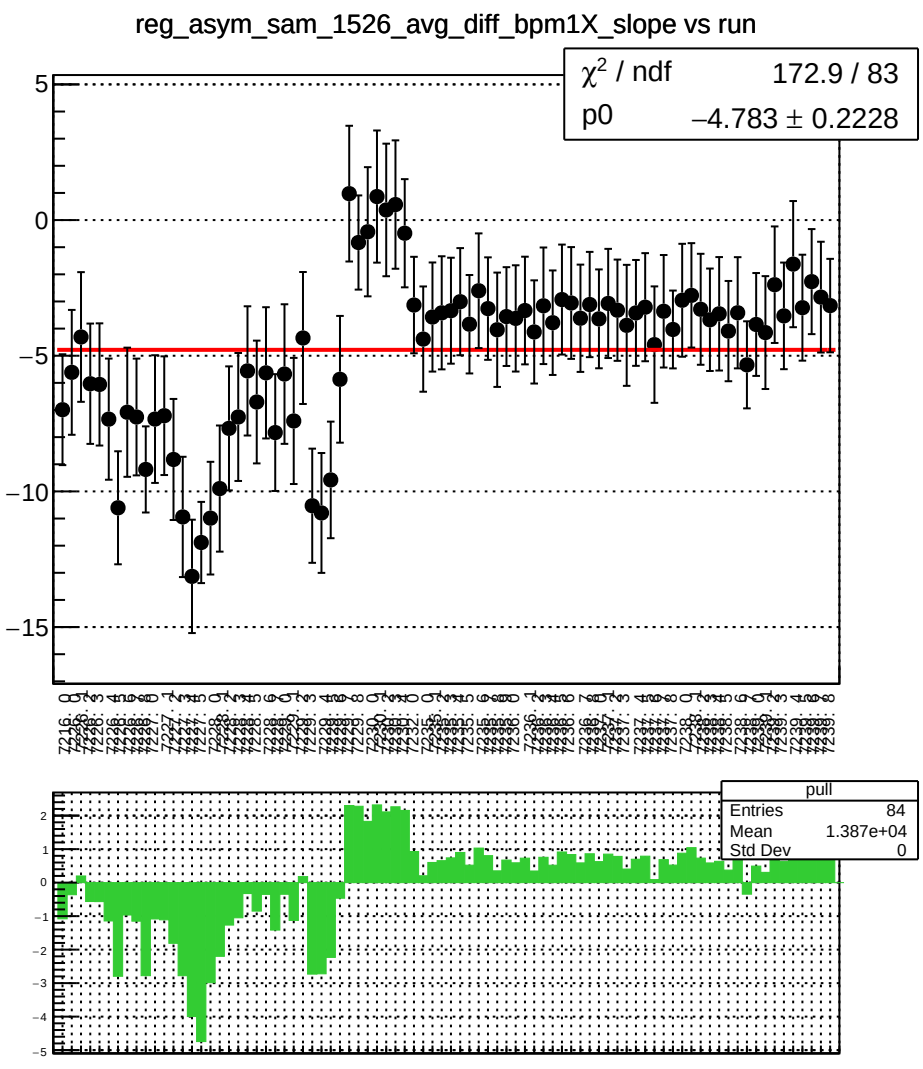

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 34.98 / 83
p0 −1.836 ± 0.5363
pull
Entries 84
Mean −24.85
Std Dev 0
pull1D
Entries 84
Mean 0.07487
Std Dev 0.641

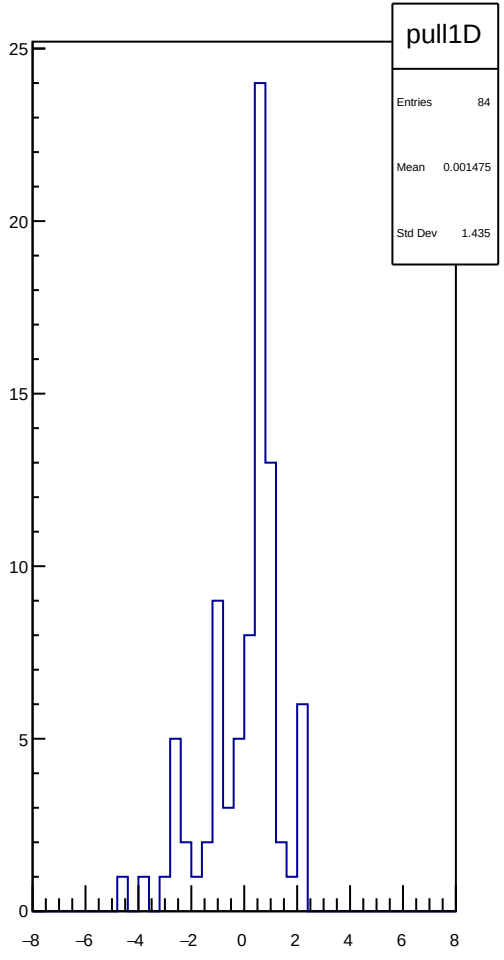

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 115.4 / 83
p0 −61.03 ± 0.7285
pull
Entries 84
Mean 1091
Std Dev 0

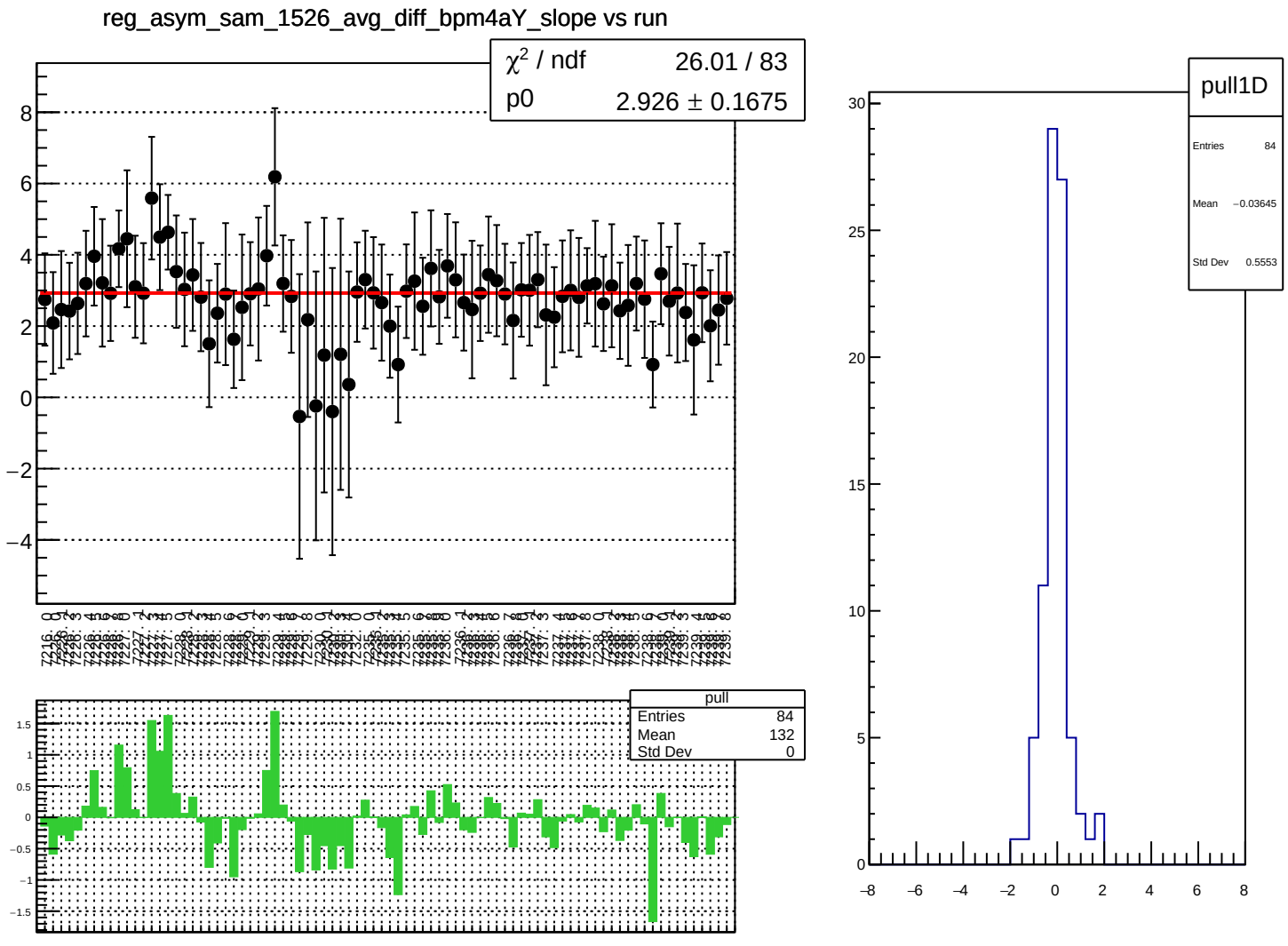

pull1D
Entries 84
Mean −0.01557
Std Dev 1.172

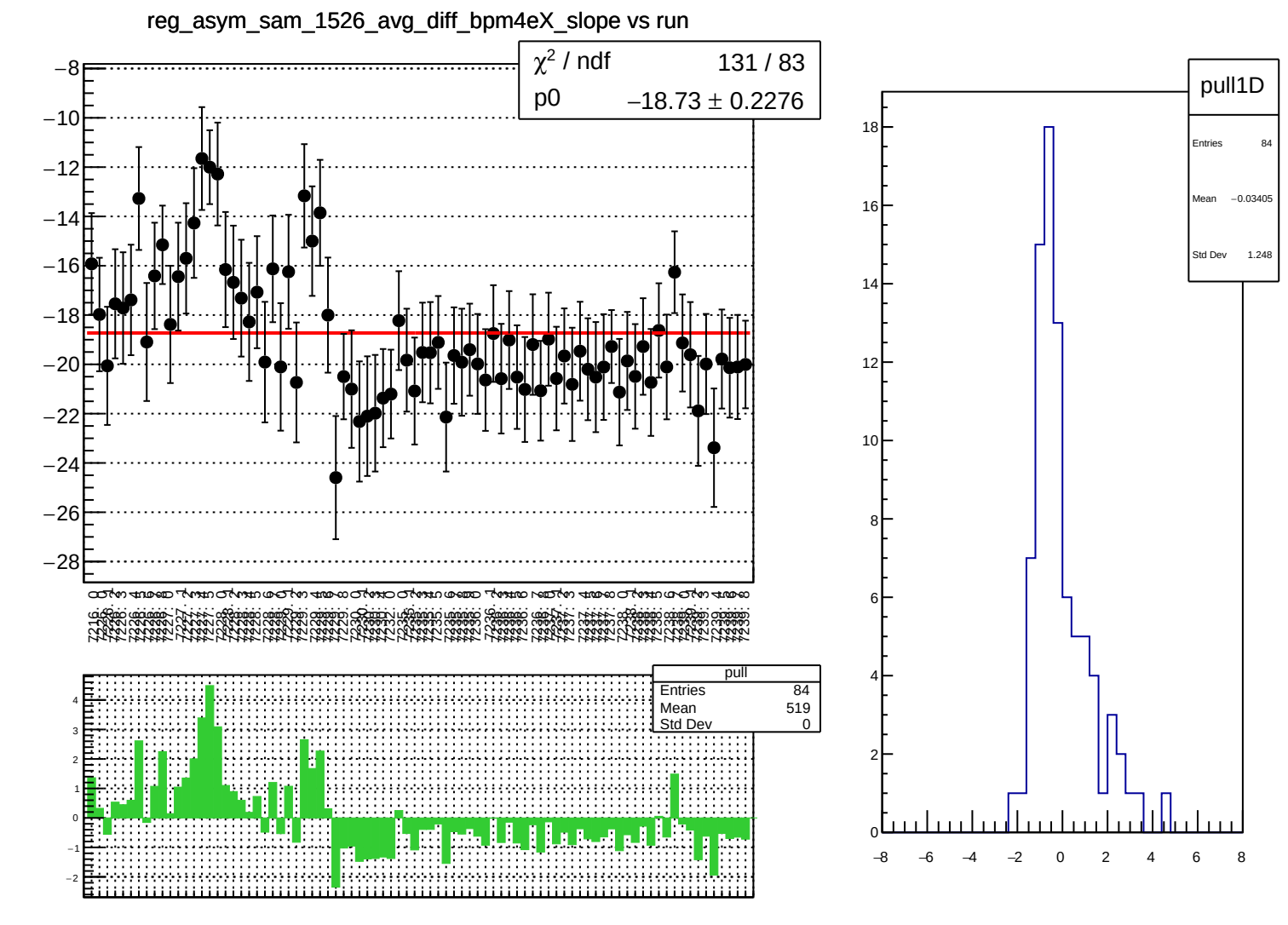

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 32.44 / 83
p0 57.06 ± 0.5885
pull
Entries 84
Mean −67.49
Std Dev 0
pull1D
Entries 84
Mean −0.05098
Std Dev 0.6194

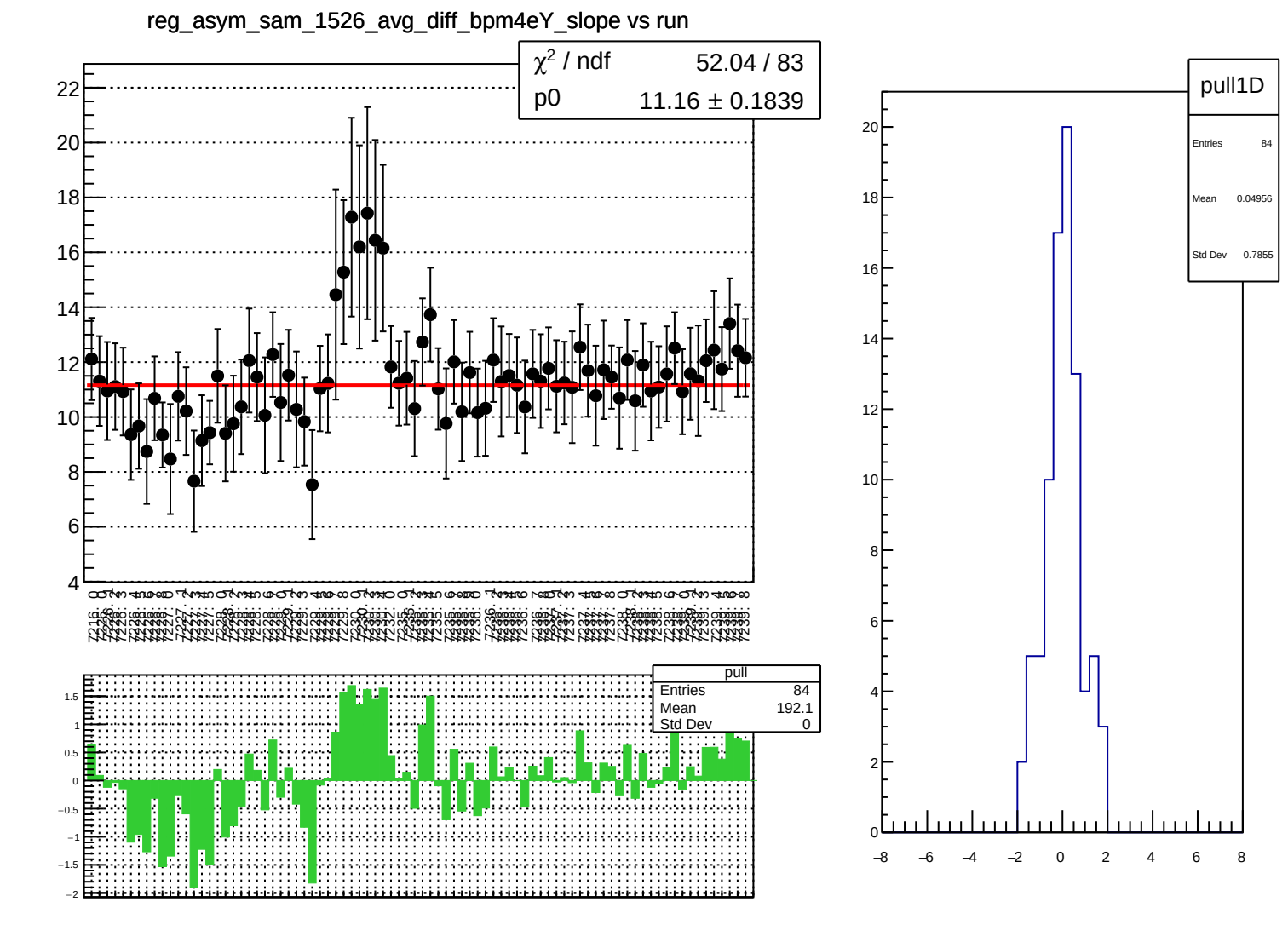

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 3.917 / 83
p0 −0.04284 ± 0.02507
pull
Entries 84
Mean 603
Std Dev 0
pull1D
Entries 84
Mean −0.00367
Std Dev 0.2159

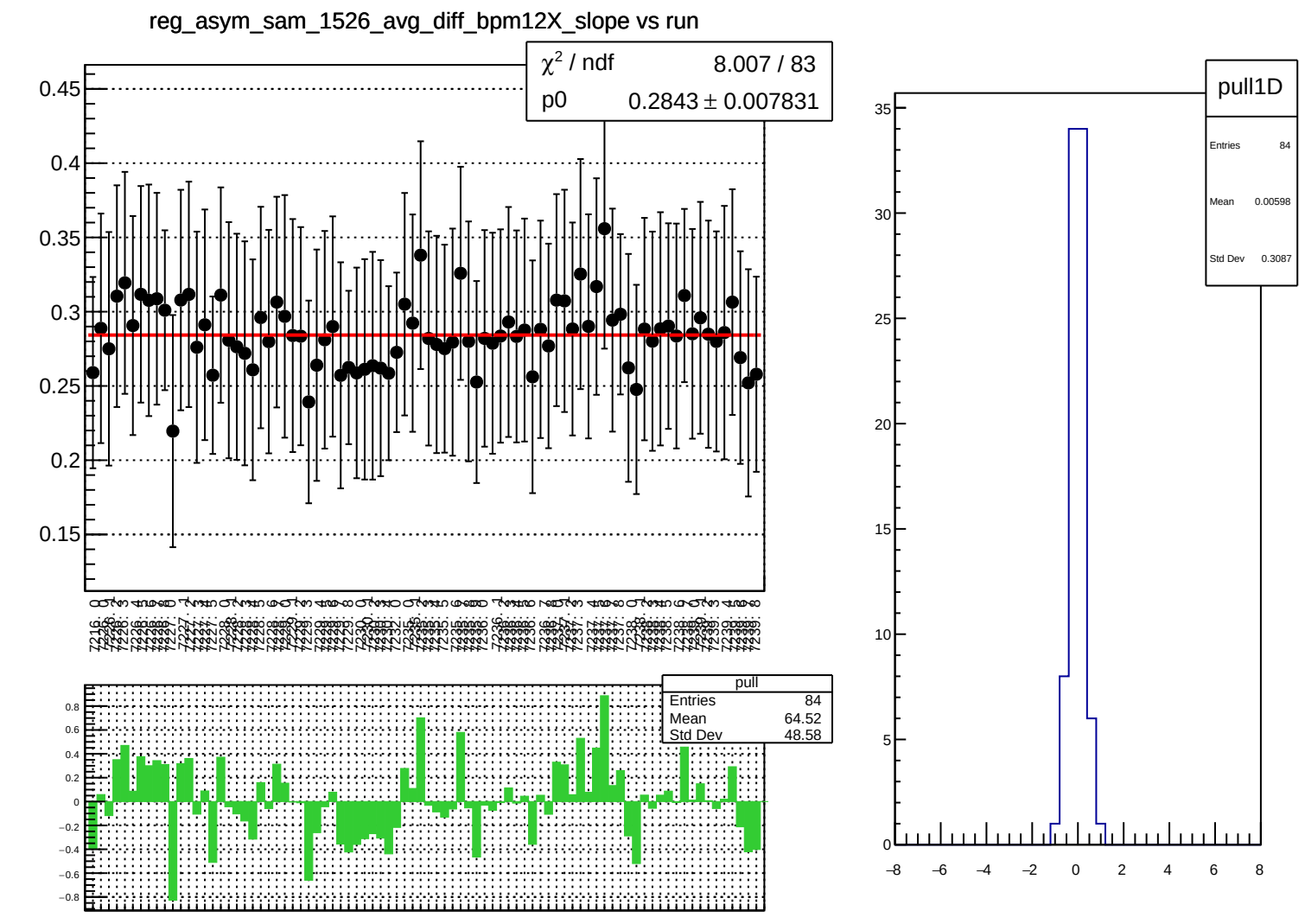

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 172.9 / 83
p0 −4.783 ± 0.2228
pull
Entries 84
Mean 1.387e+04
Std Dev 0

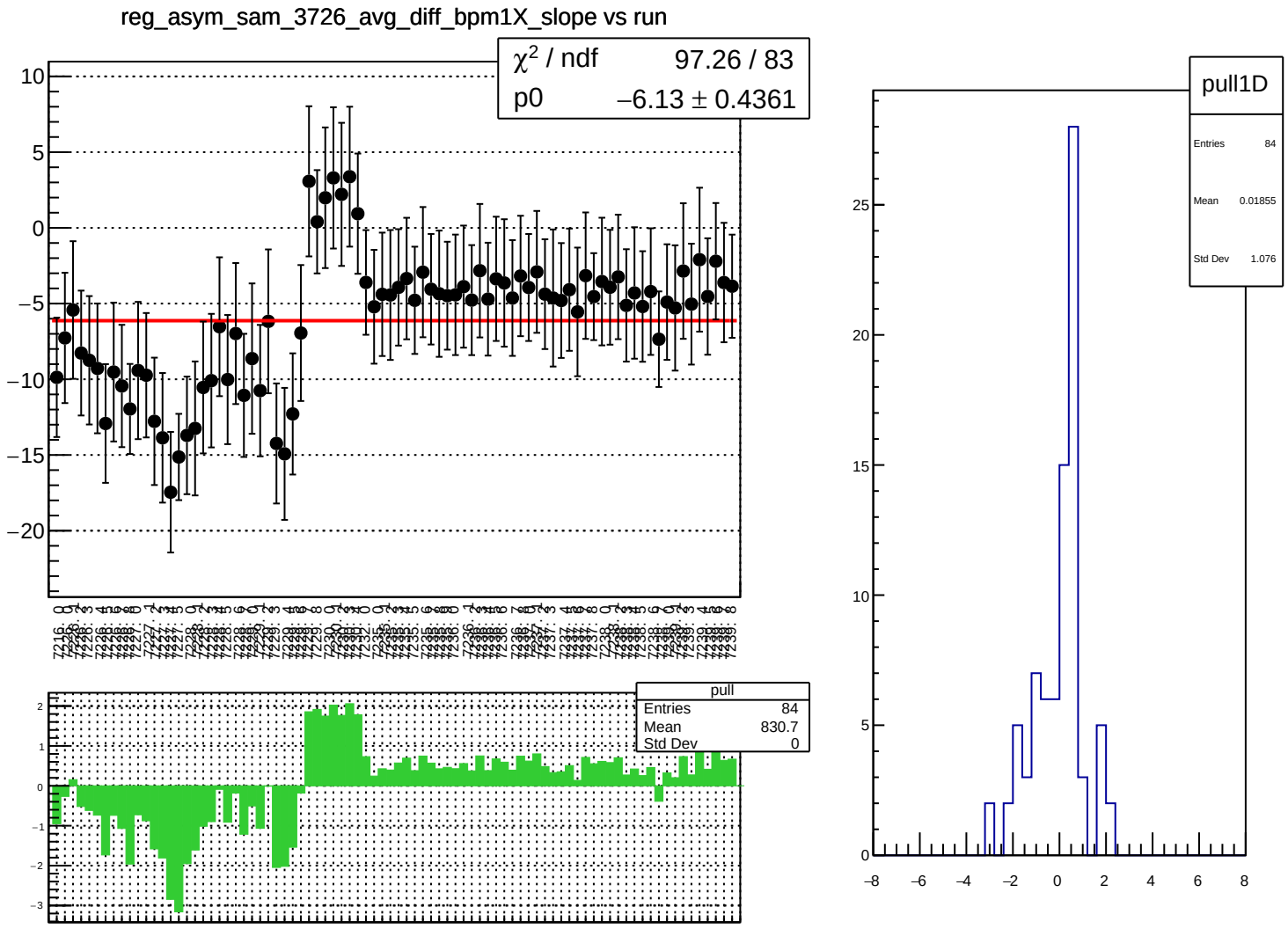

pull1D
Entries 84
Mean 0.001475
Std Dev 1.435

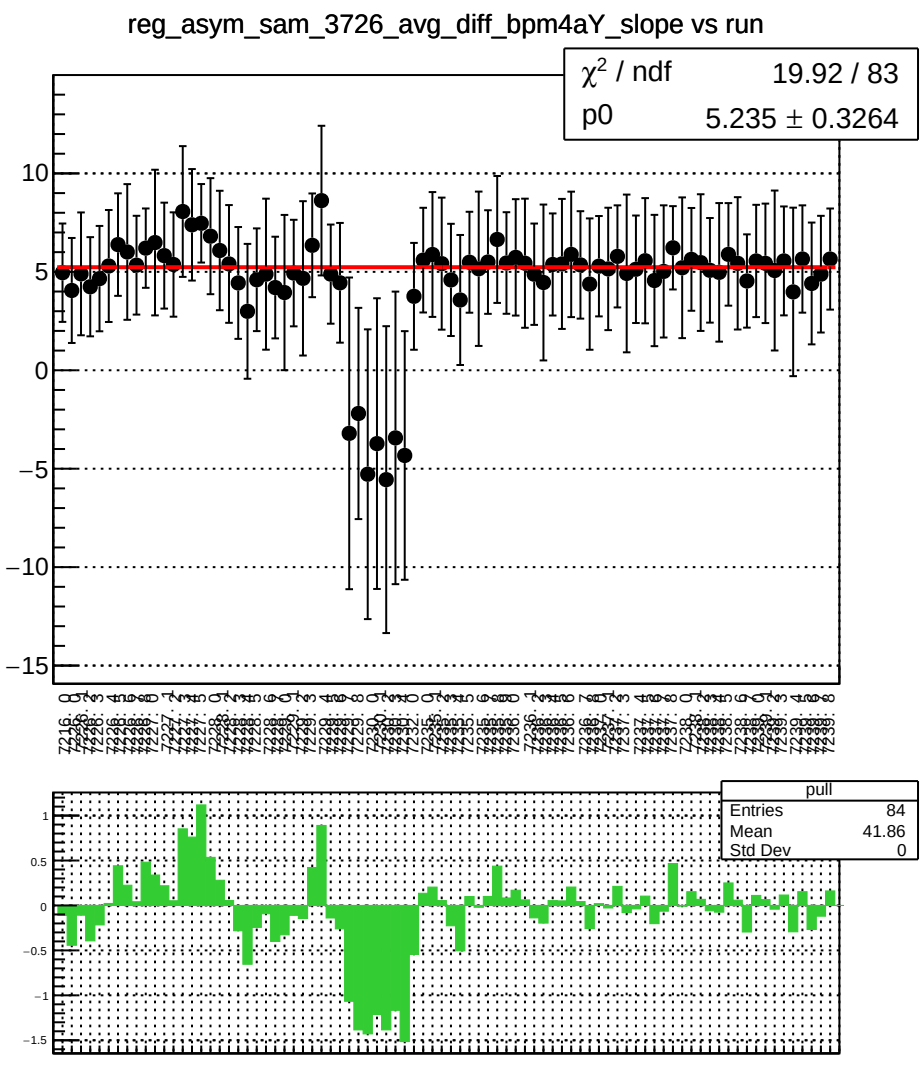

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 26.01 / 83
p0 2.926 ± 0.1675
pull
Entries 84
Mean 132
Std Dev 0
pull1D
Entries 84
Mean −0.03645
Std Dev 0.5553

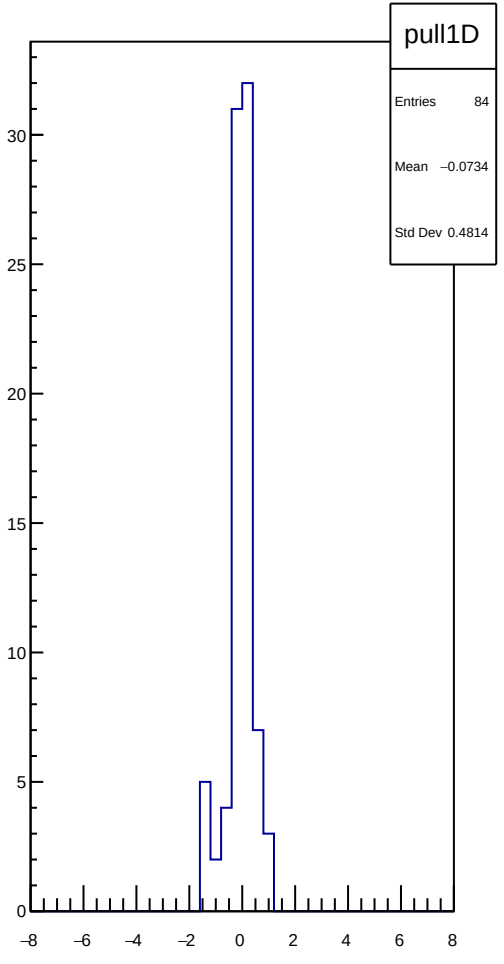

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 131 / 83
p0 −18.73 ± 0.2276
pull
Entries 84
Mean 519
Std Dev 0
pull1D
Entries 84
Mean −0.03405
Std Dev 1.248

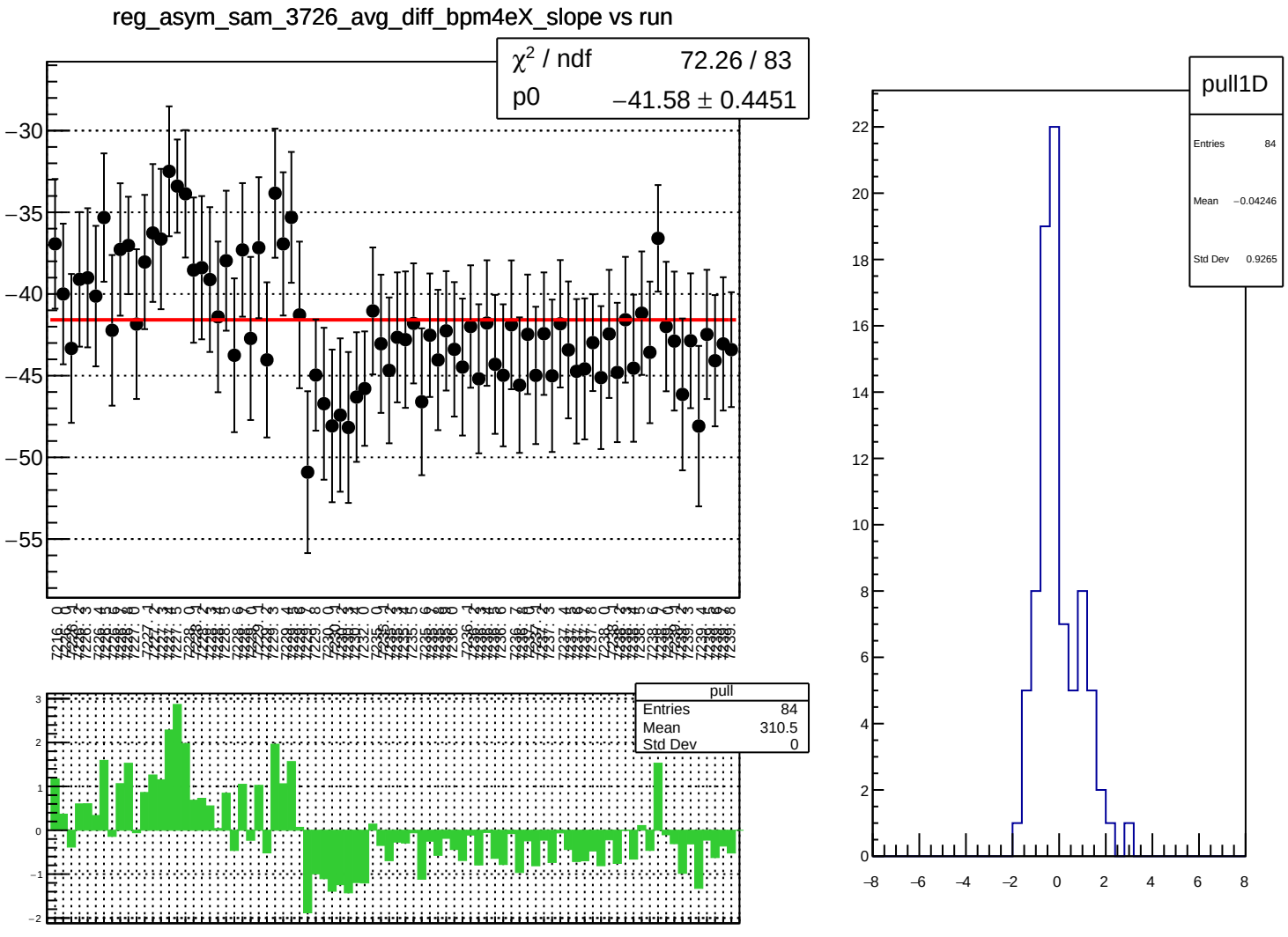

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 52.04 / 83
p0 11.16 ± 0.1839
pull
Entries 84
Mean 192.1
Std Dev 0
pull1D
Entries 84
Mean 0.04956
Std Dev 0.7855

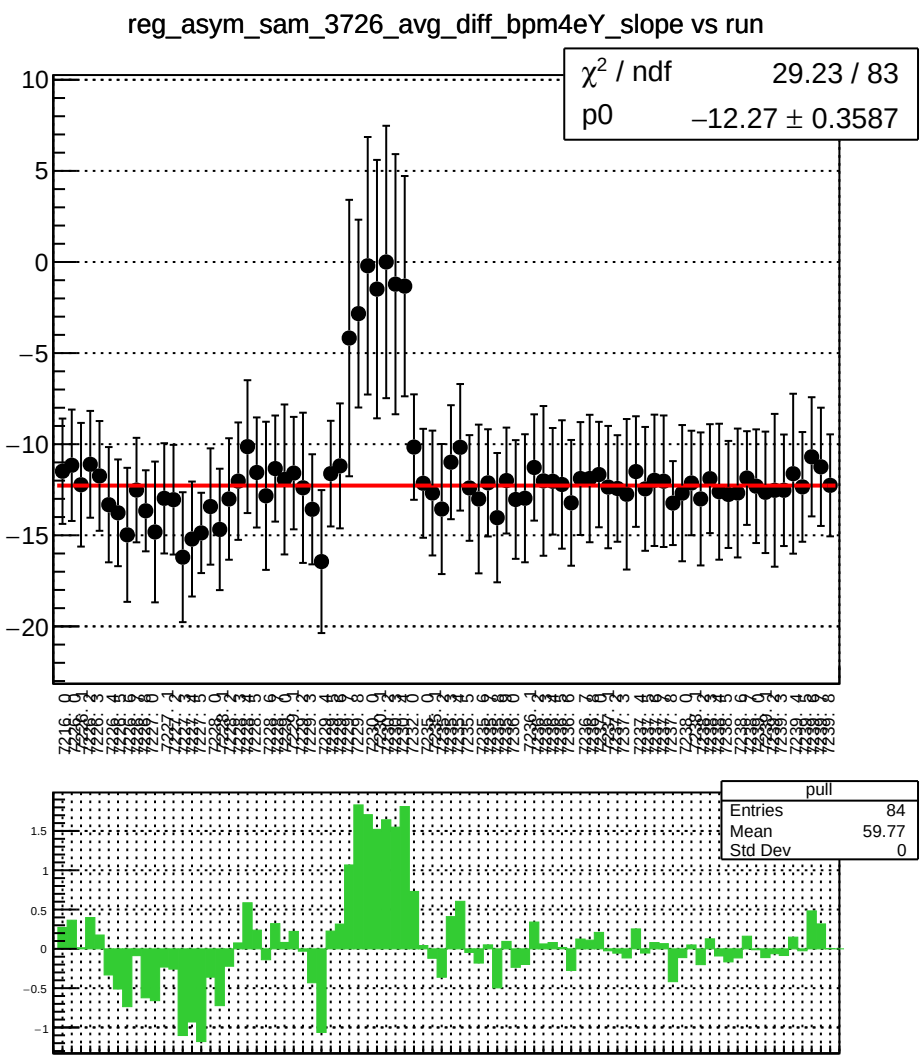

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 8.007 / 83
p0 0.2843 ± 0.007831
pull
Entries 84
Mean 64.52
Std Dev 48.58
pull1D
Entries 84
Mean 0.00598
Std Dev 0.3087

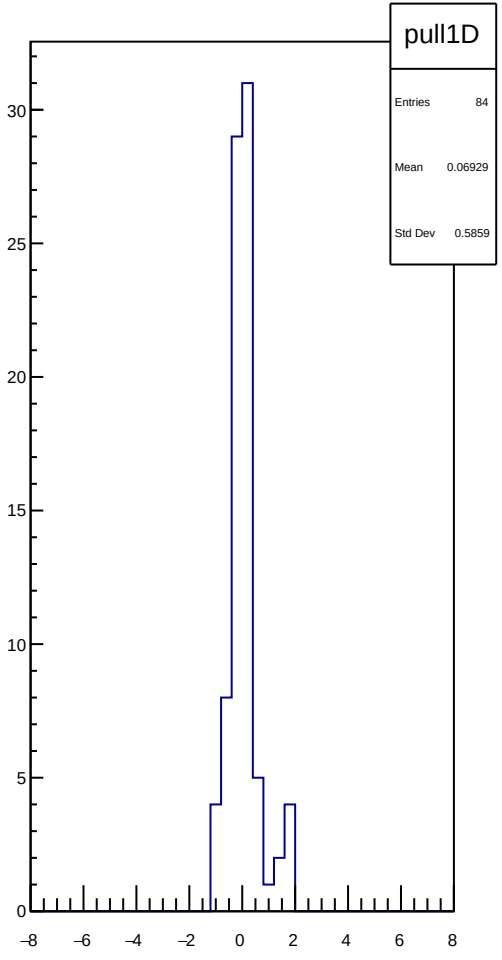

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 97.26 / 83
p0 −6.13 ± 0.4361
pull
Entries 84
Mean 830.7
Std Dev 0
pull1D
Entries 84
Mean 0.01855
Std Dev 1.076

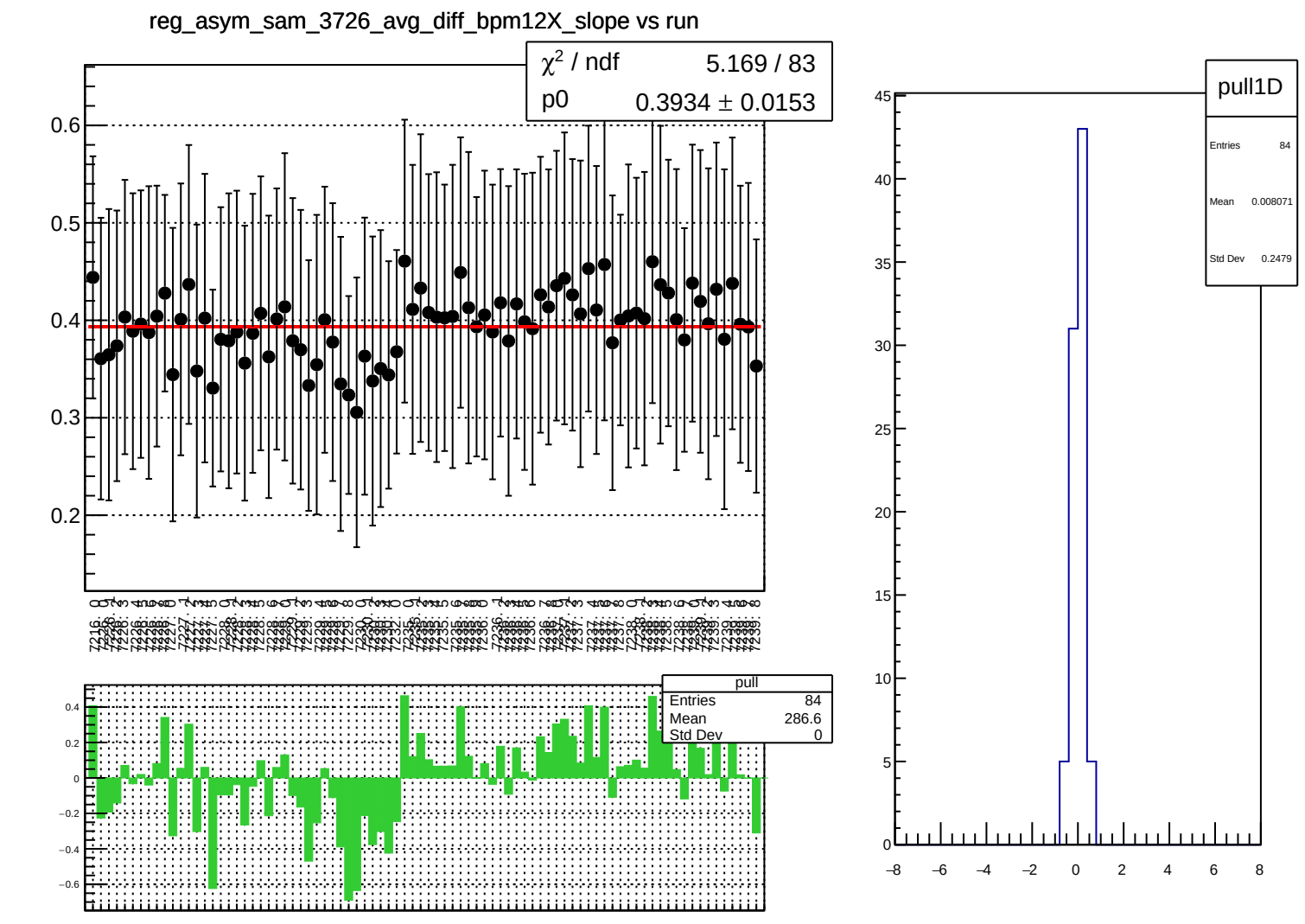

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 19.92 / 83
p0 5.235 ± 0.3264
pull
Entries 84
Mean 41.86
Std Dev 0

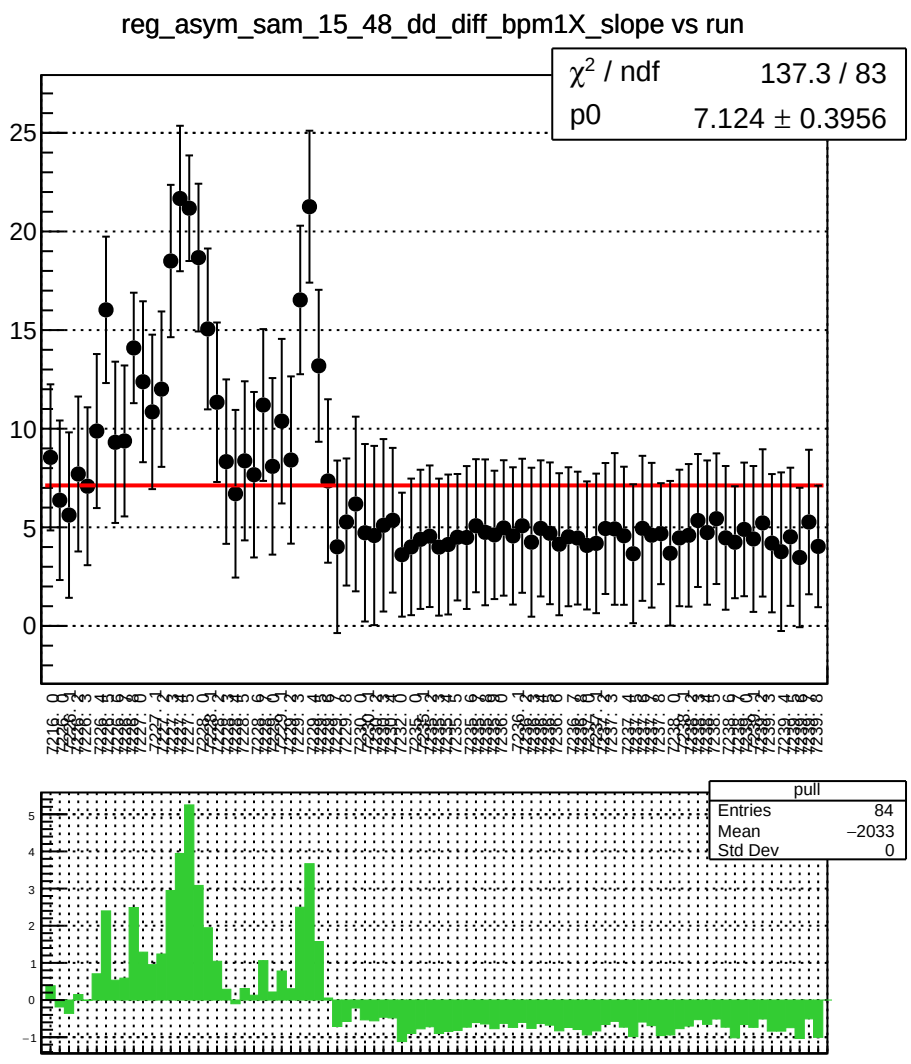

pull1D
Entries 84
Mean −0.0734
Std Dev 0.4814

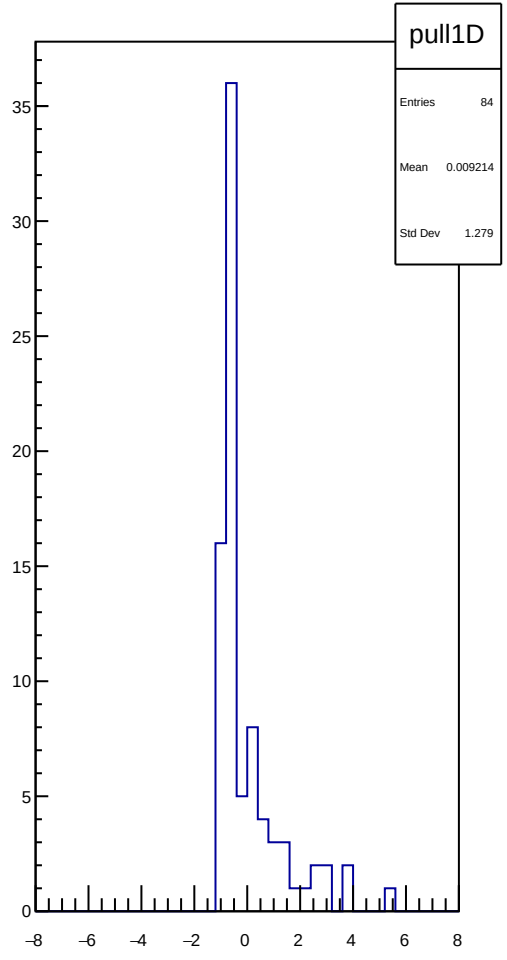

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 72.26 / 83
p0 −41.58 ± 0.4451
pull
Entries 84
Mean 310.5
Std Dev 0
pull1D
Entries 84
Mean −0.04246
Std Dev 0.9265

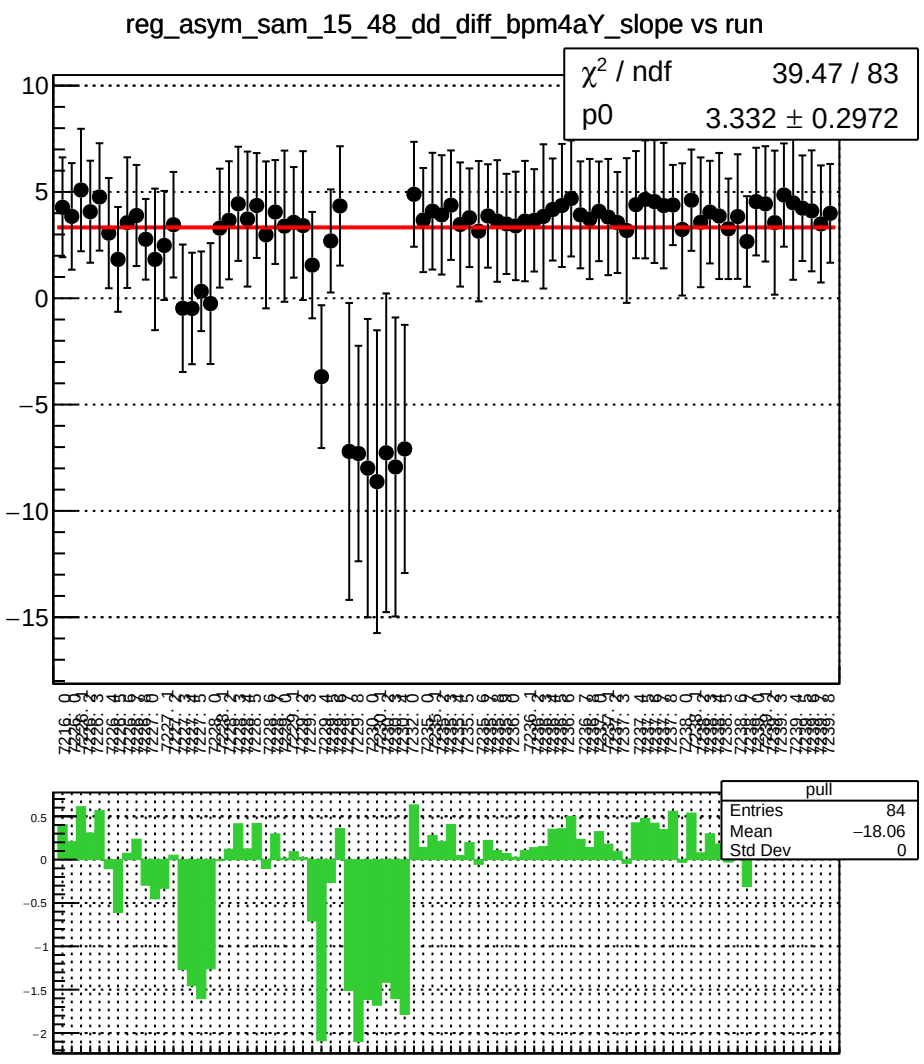

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 29.23 / 83
p0 −12.27 ± 0.3587
pull
Entries 84
Mean 59.77
Std Dev 0

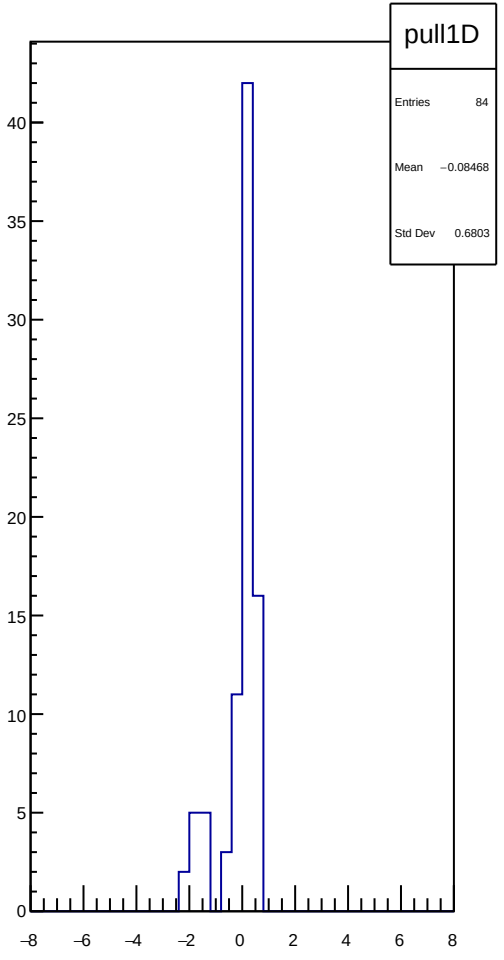

pull1D
Entries 84
Mean 0.06929
Std Dev 0.5859

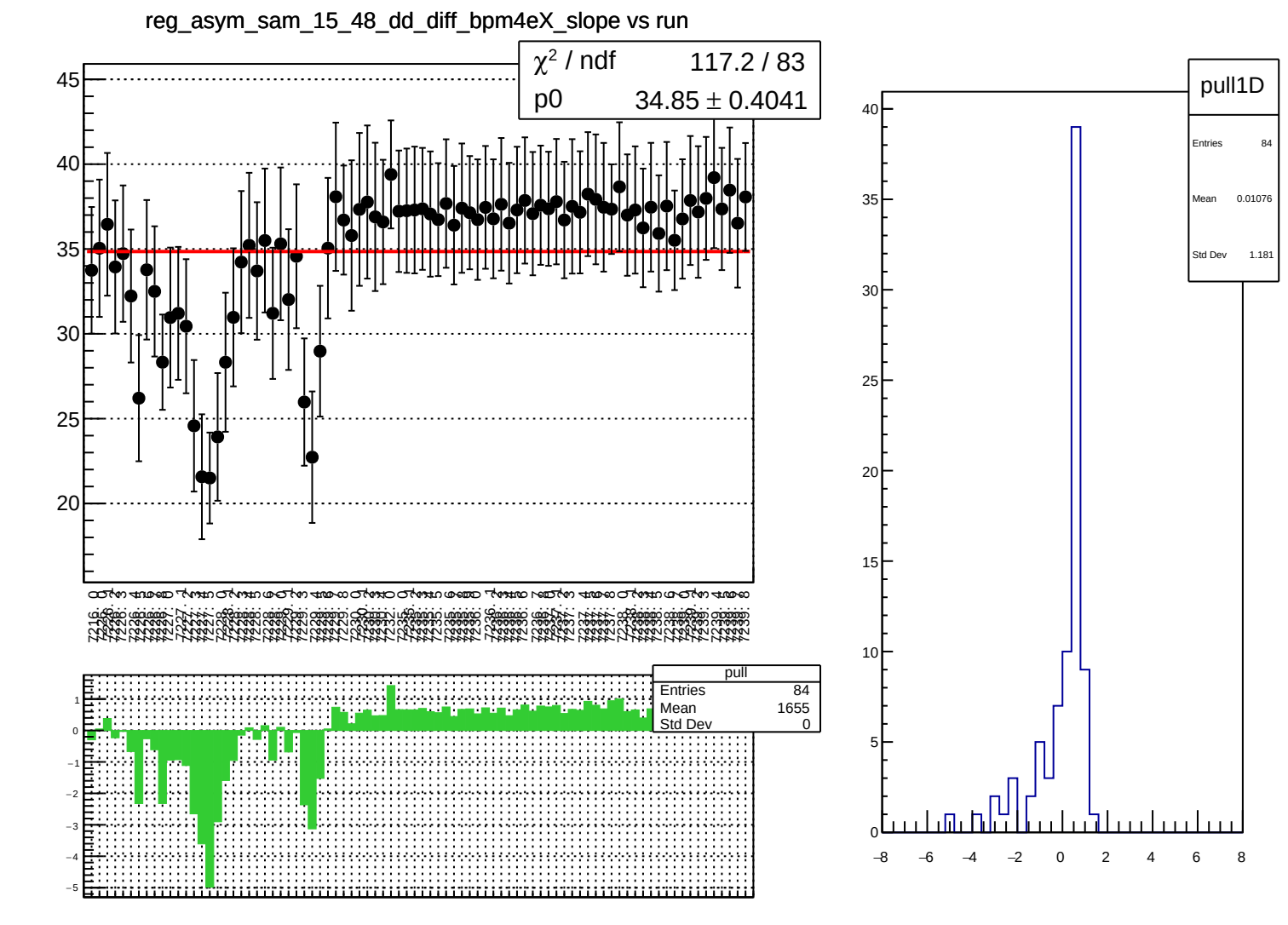

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 5.169 / 83
p0 0.3934 ± 0.0153
pull
Entries 84
Mean 286.6
Std Dev 0
pull1D
Entries 84
Mean 0.008071
Std Dev 0.2479

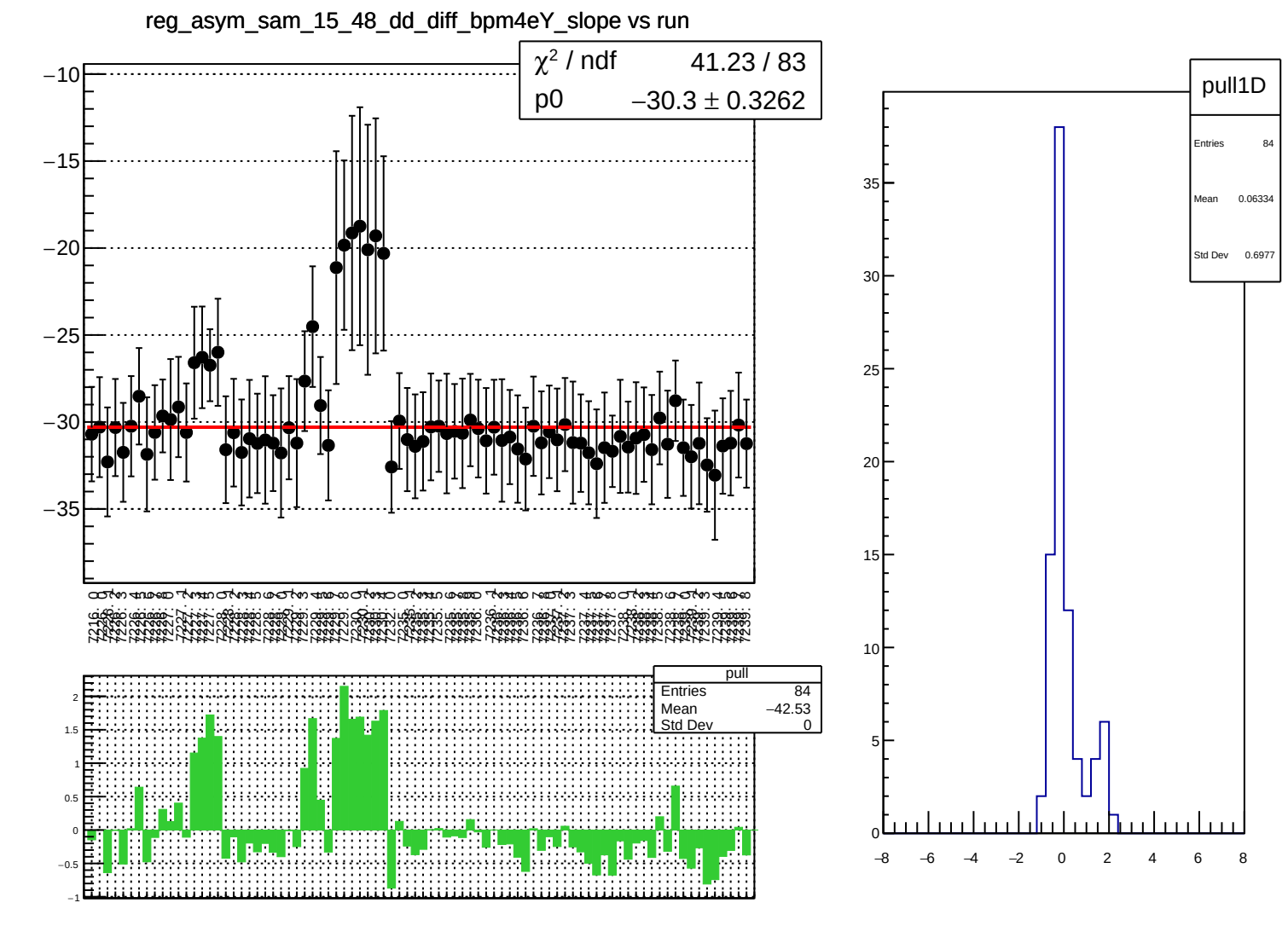

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 137.3 / 83
p0 7.124 ± 0.3956
pull
Entries 84
Mean −2033
Std Dev 0

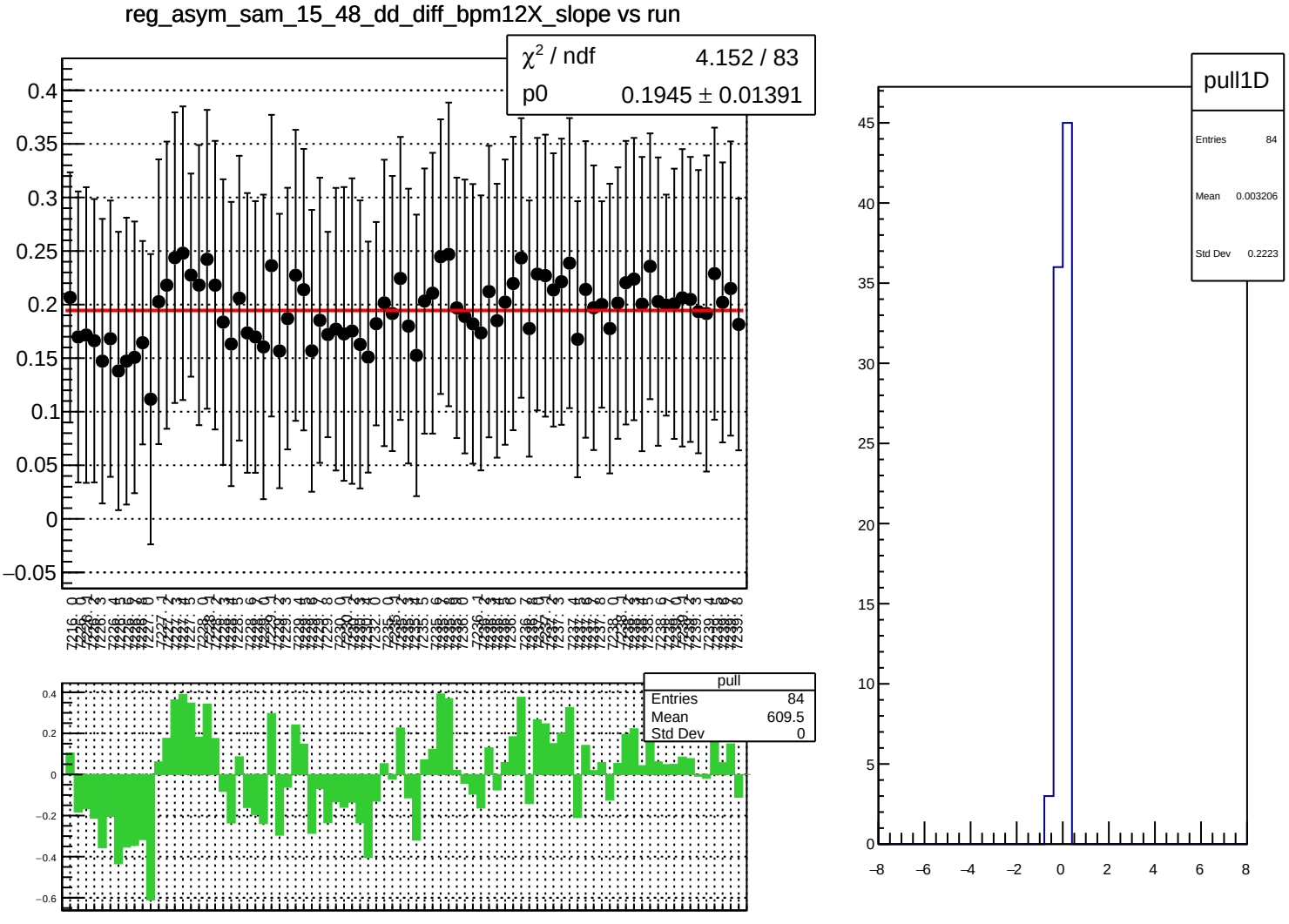

pull1D
Entries 84
Mean 0.009214
Std Dev 1.279

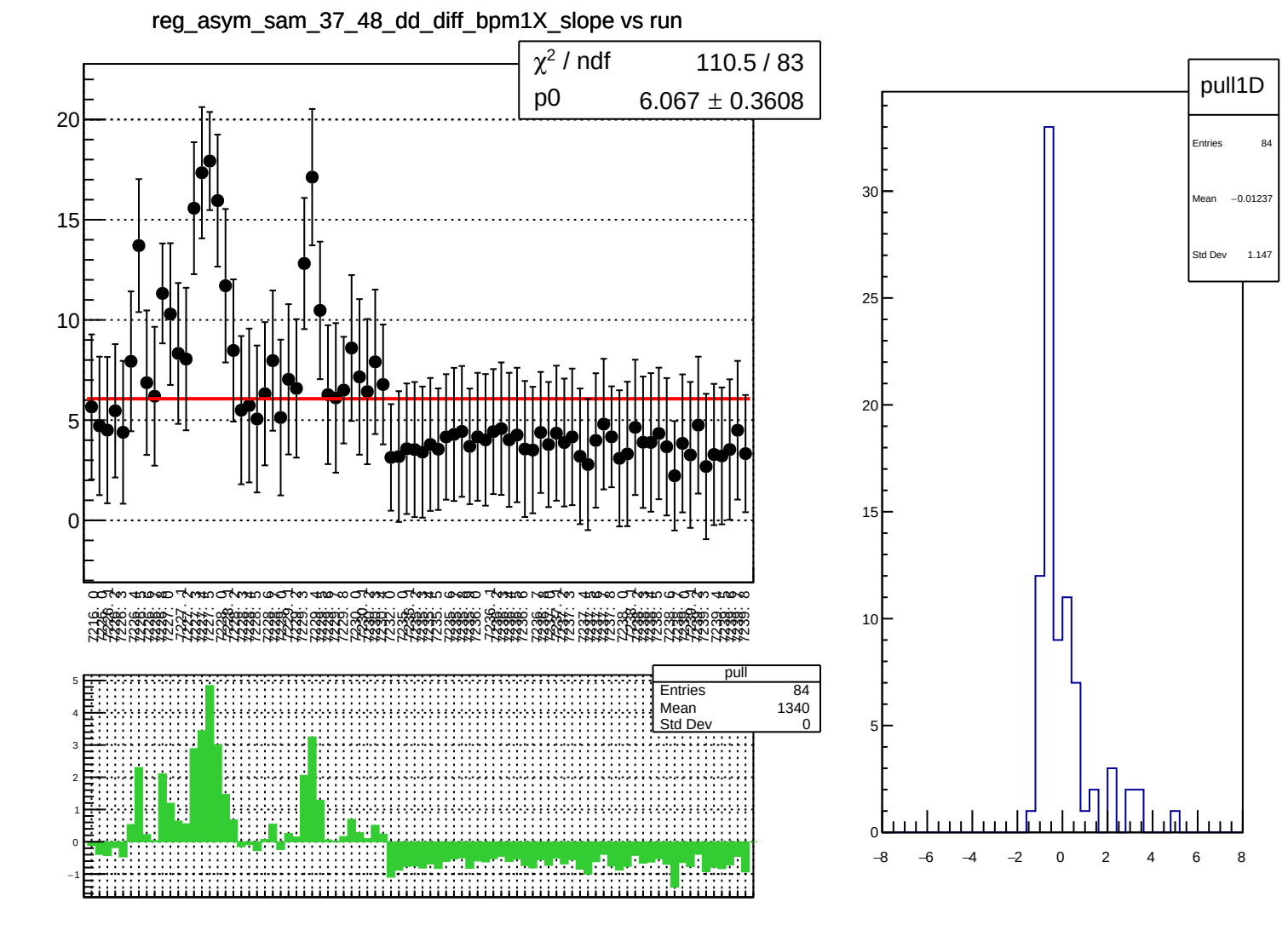

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 39.47 / 83
p0 3.332 ± 0.2972
pull
Entries 84
Mean −18.06
Std Dev 0

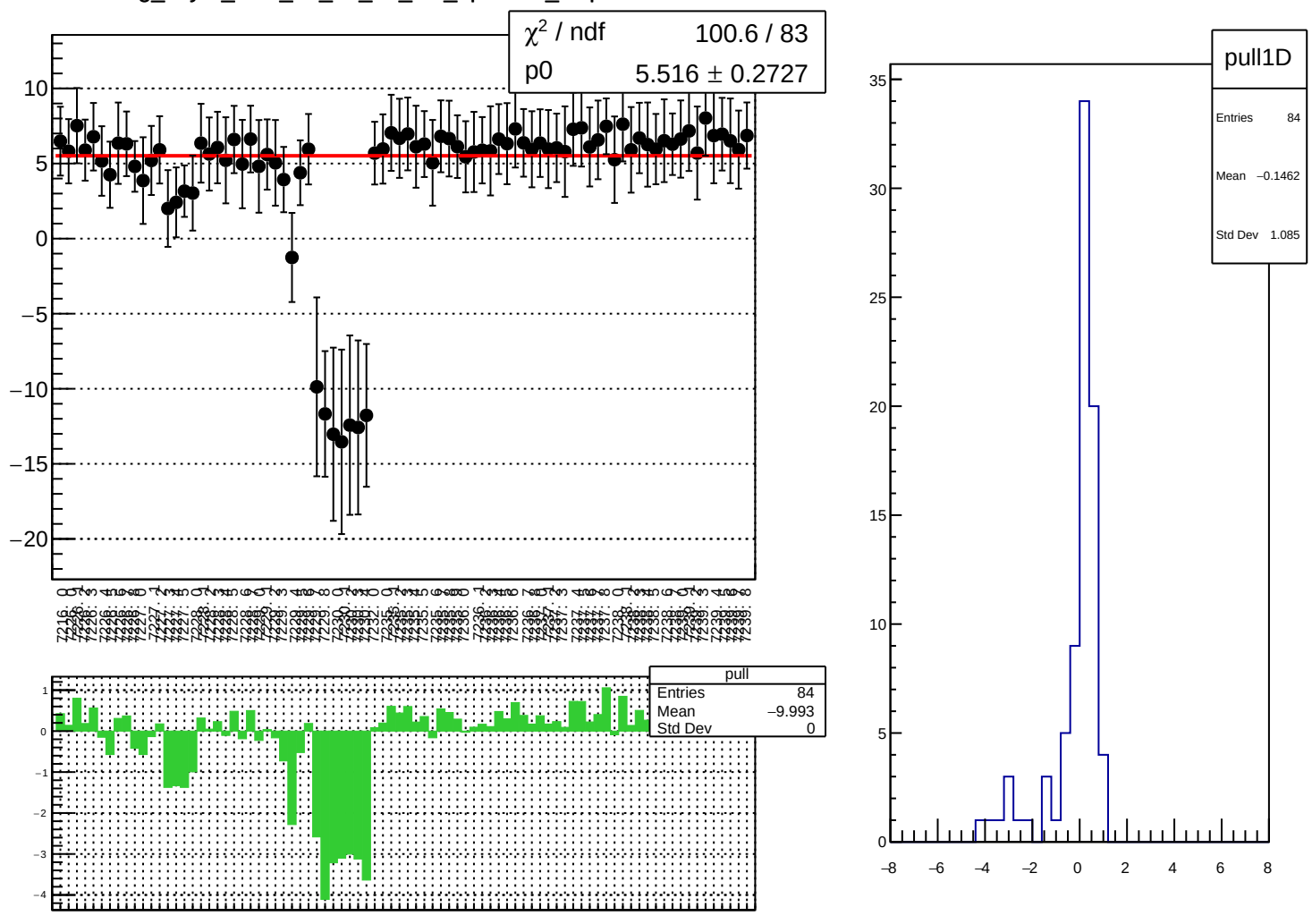

pull1D
Entries 84
Mean −0.08468
Std Dev 0.6803

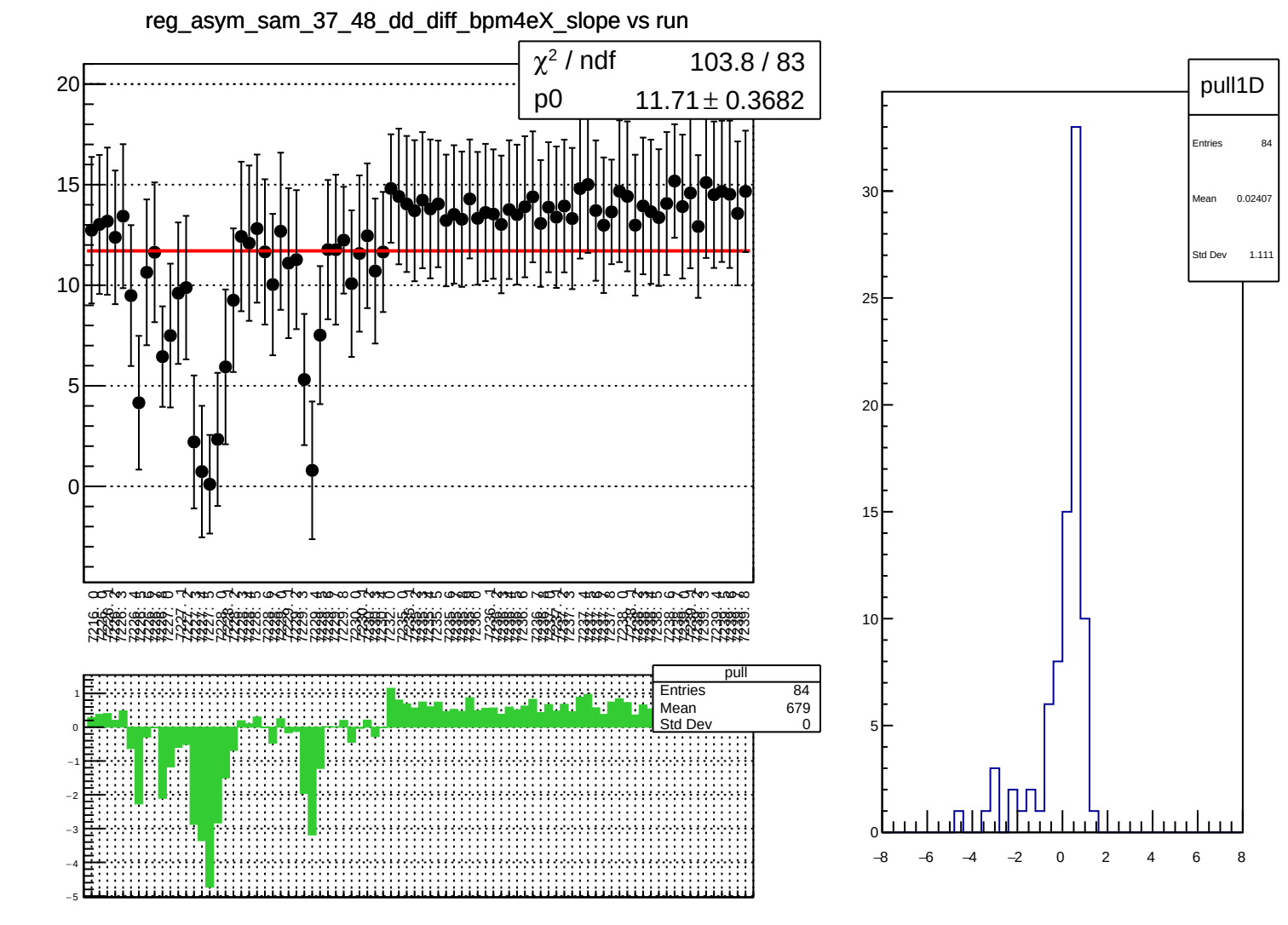

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 117.2 / 83
p0 34.85 ± 0.4041
pull
Entries 84
Mean 1655
Std Dev 0
pull1D
Entries 84
Mean 0.01076
Std Dev 1.181

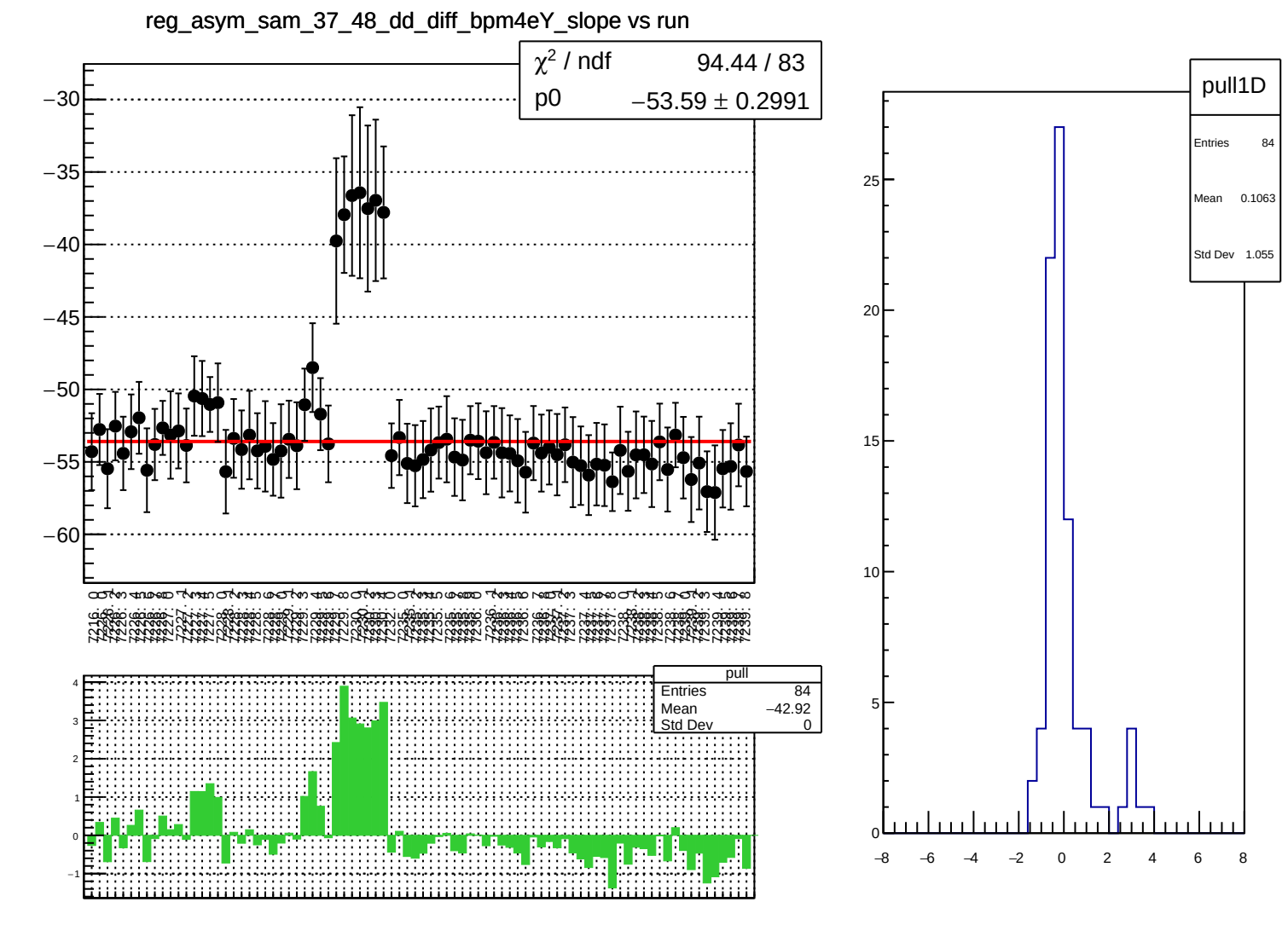

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 41.23 / 83
p0 −30.3 ± 0.3262
pull
Entries 84
Mean −42.53
Std Dev 0
pull1D
Entries 84
Mean 0.06334
Std Dev 0.6977

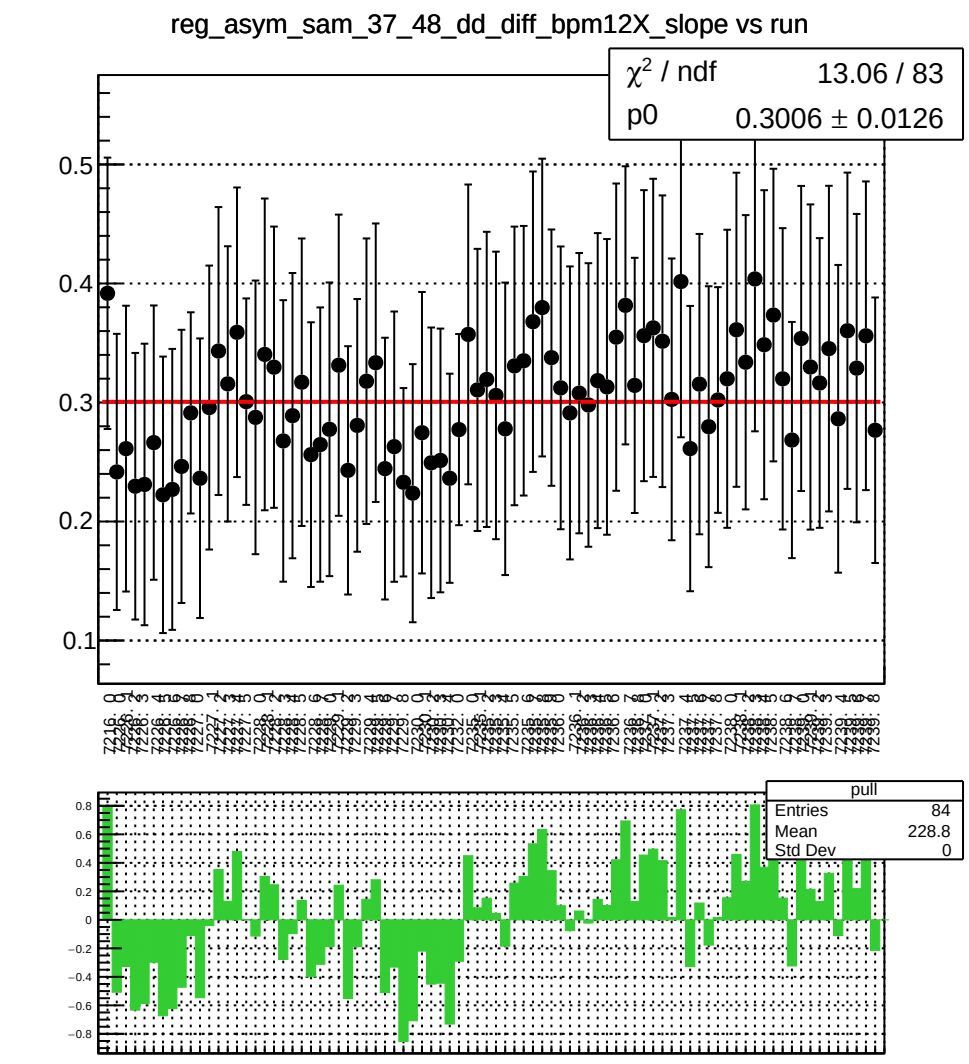

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 4.152 / 83
p0 0.1945 ± 0.01391
pull
Entries 84
Mean 609.5
Std Dev 0
pull1D
Entries 84
Mean 0.003206
Std Dev 0.2223

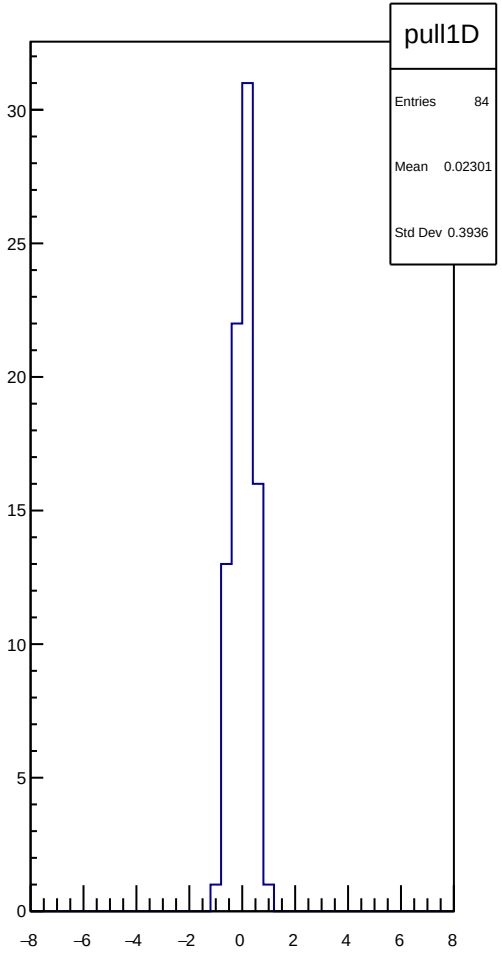

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 110.5 / 83
p0 6.067 ± 0.3608
pull
Entries 84
Mean 1340
Std Dev 0
pull1D
Entries 84
Mean −0.01237
Std Dev 1.147

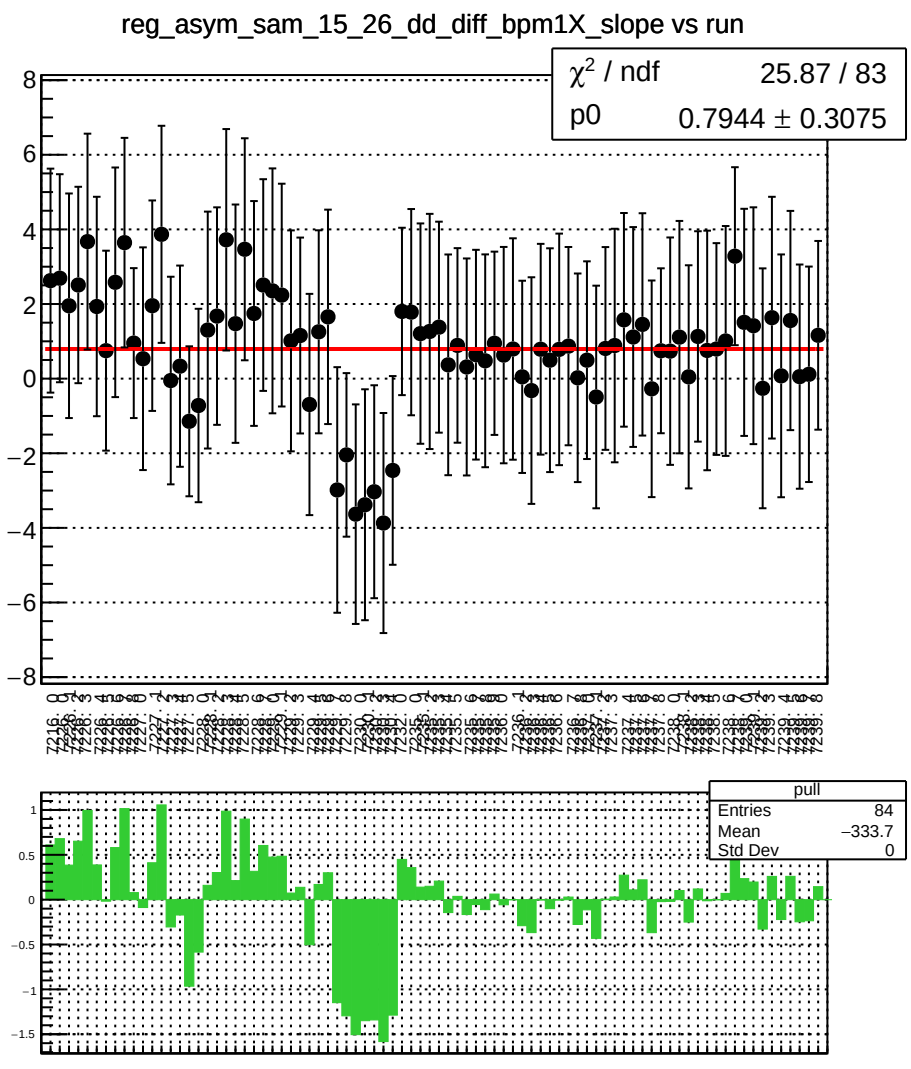

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 100.6 / 83
p0 5.516 ± 0.2727
pull
Entries 84
Mean −9.993
Std Dev 0
pull1D
Entries 84
Mean −0.1462
Std Dev 1.085

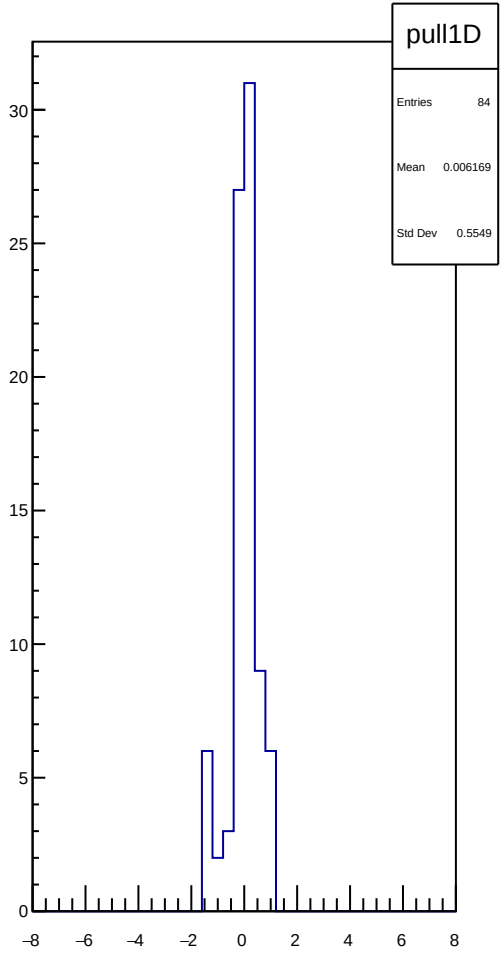

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 103.8 / 83
p0 11.71 ± 0.3682
pull
Entries 84
Mean 679
Std Dev 0
pull1D
Entries 84
Mean 0.02407
Std Dev 1.111

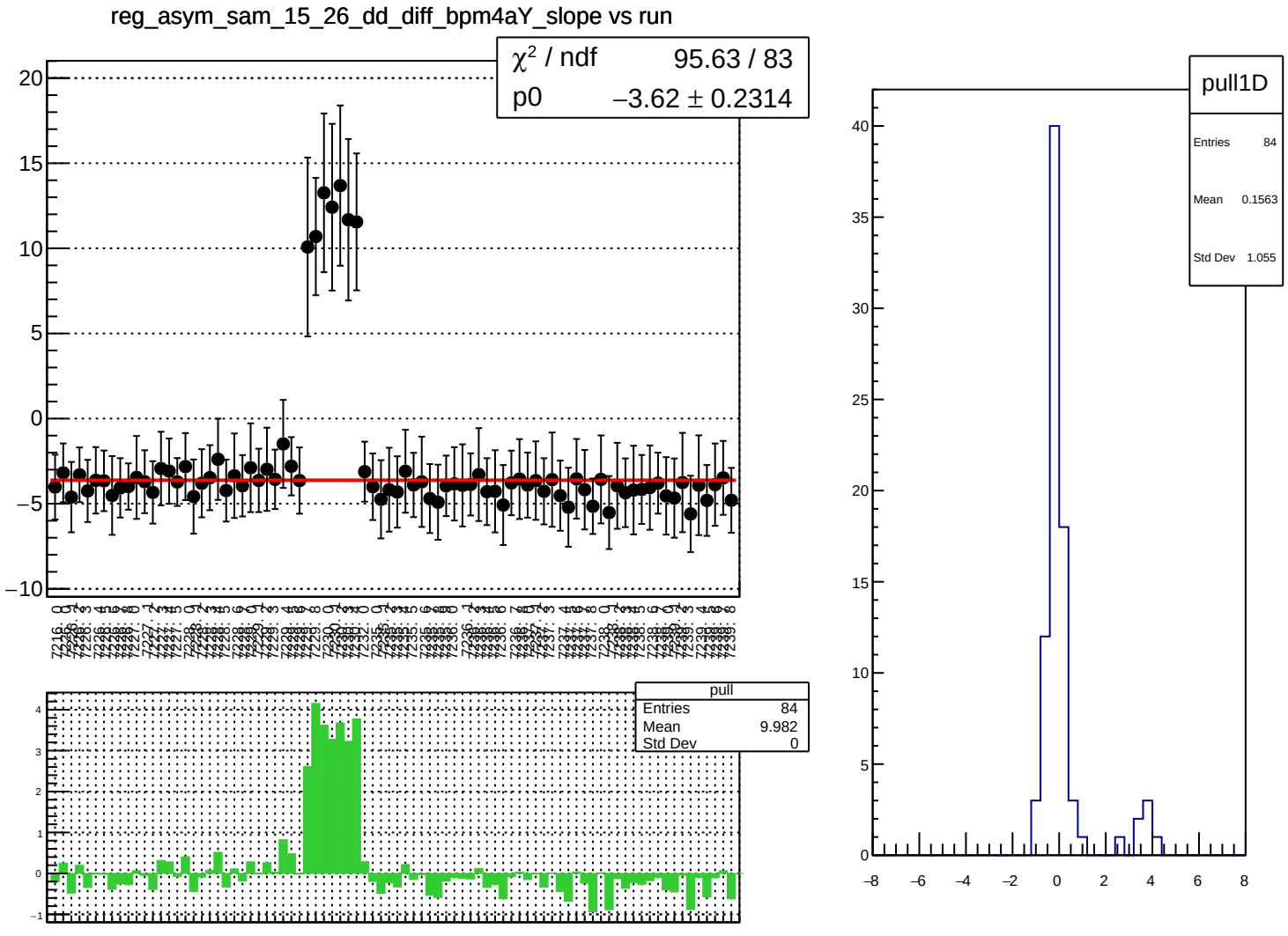

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 94.44 / 83
p0 −53.59 ± 0.2991
pull
Entries 84
Mean −42.92
Std Dev 0
pull1D
Entries 84
Mean 0.1063
Std Dev 1.055

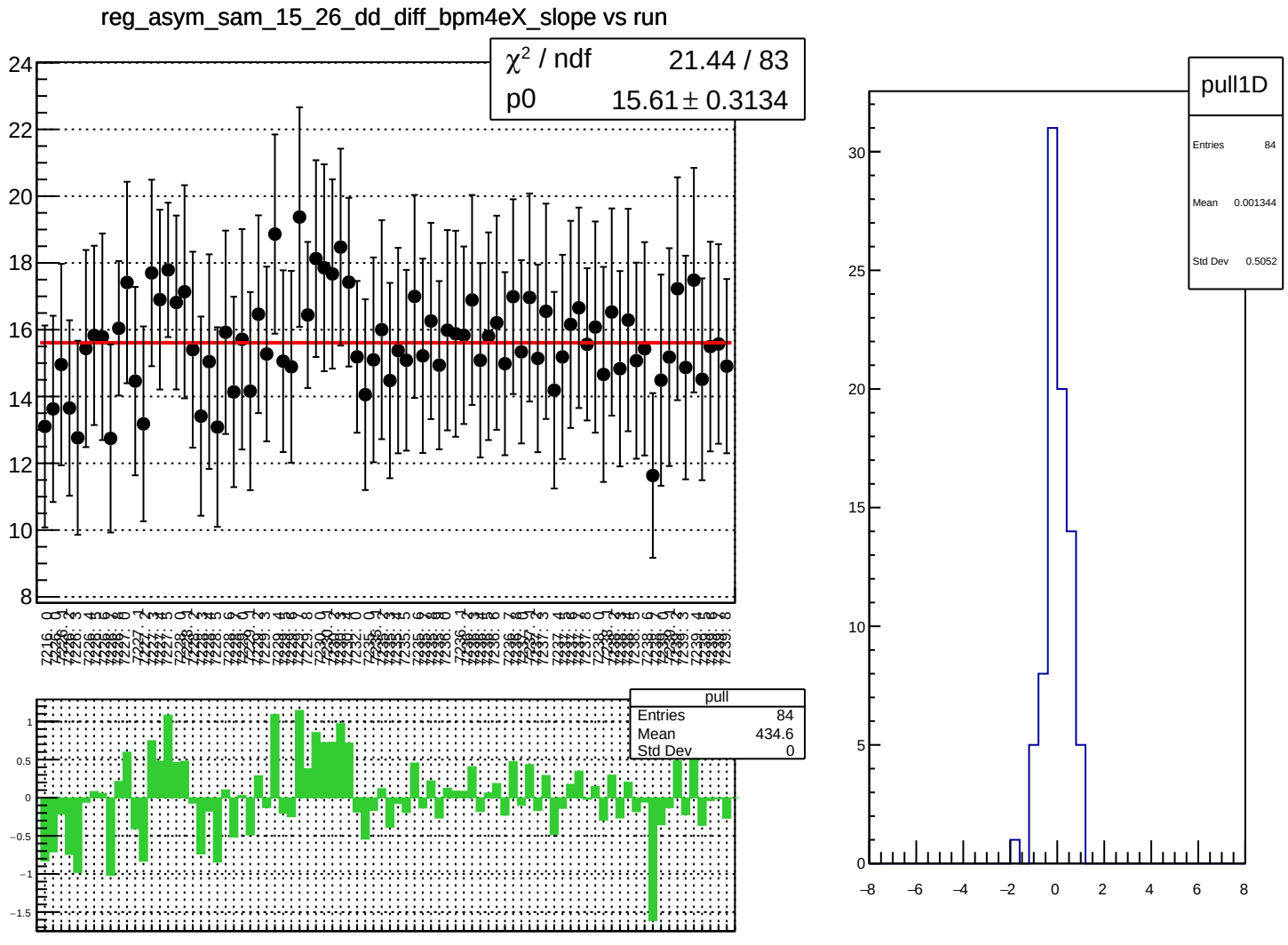

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 13.06 / 83
p0 0.3006 ± 0.0126
pull
Entries 84
Mean 228.8
Std Dev 0

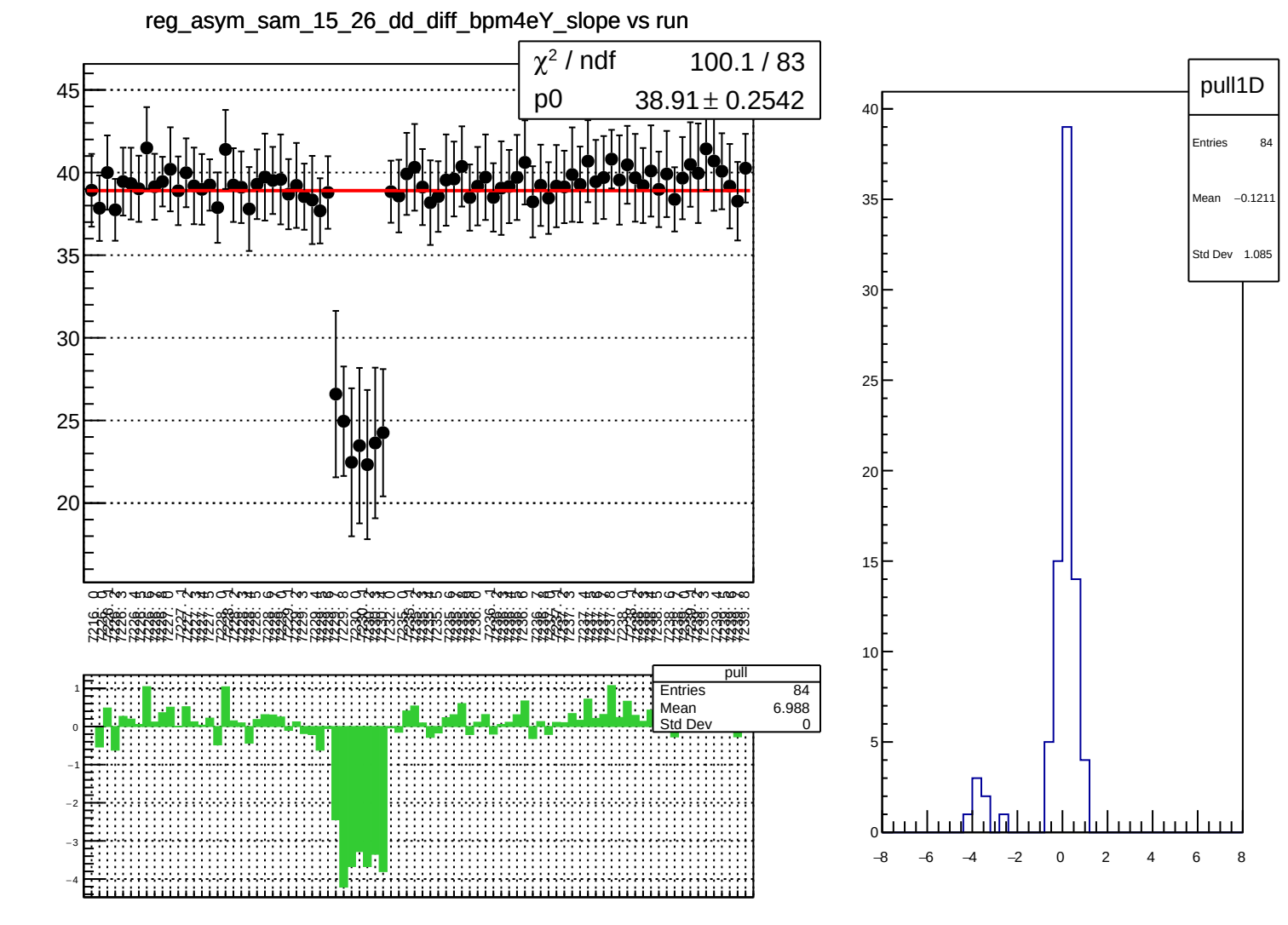

pull1D
Entries 84
Mean 0.02301
Std Dev 0.3936

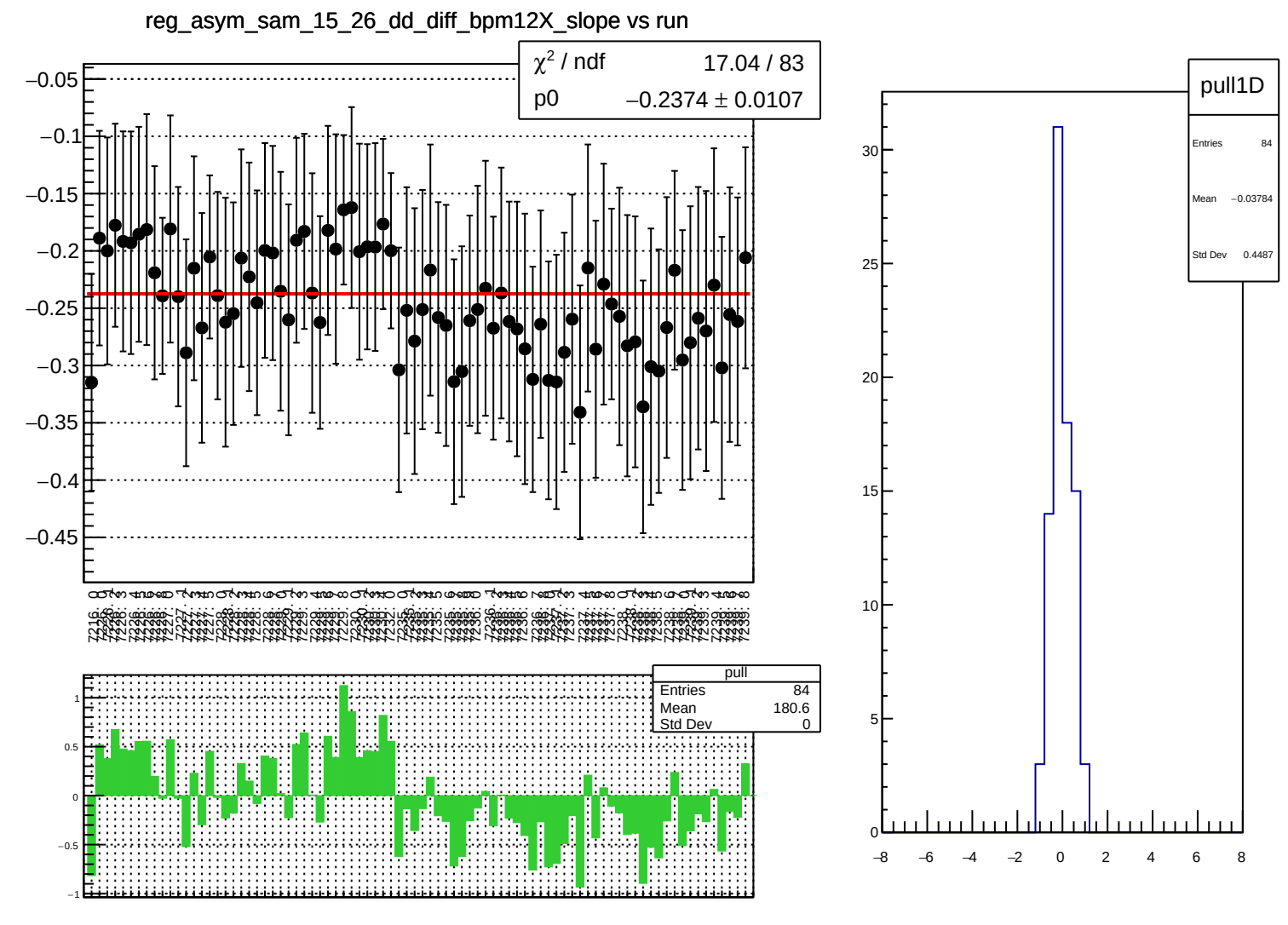

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 25.87 / 83
p0 0.7944 ± 0.3075
pull
Entries 84
Mean −333.7
Std Dev 0

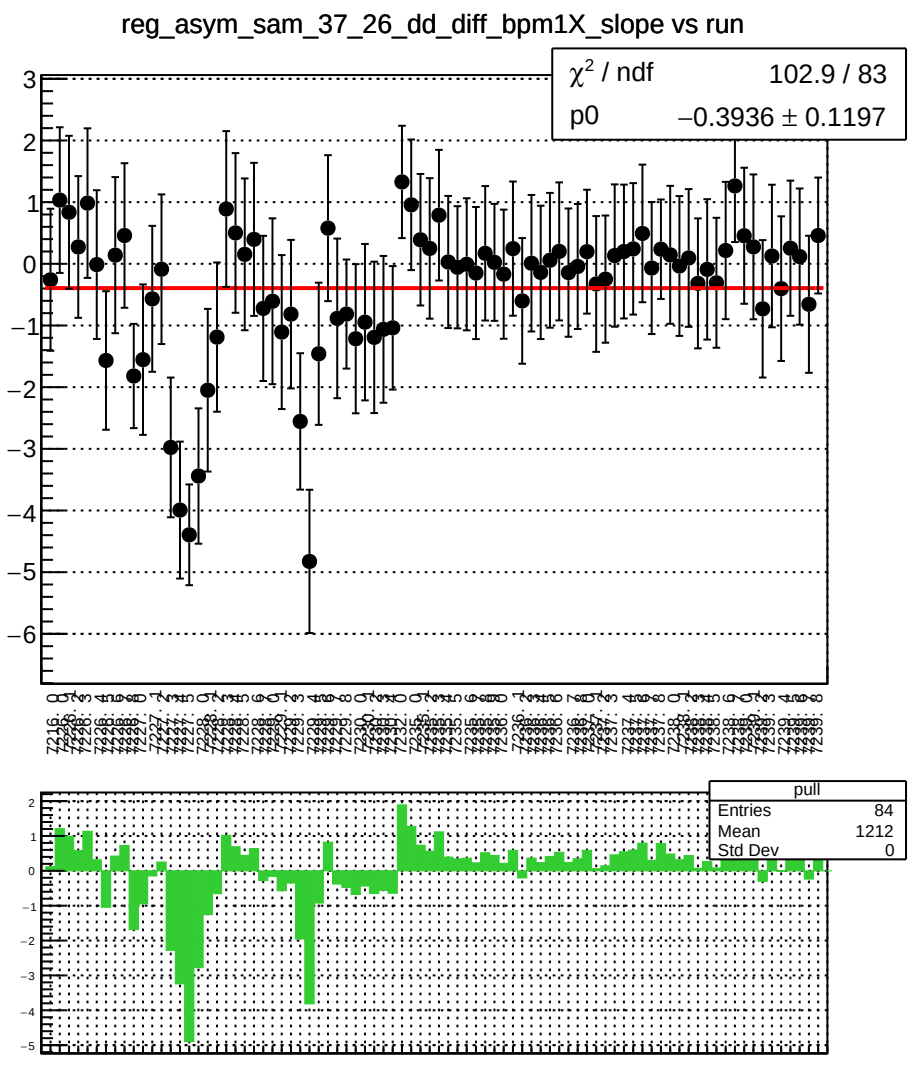

pull1D
Entries 84
Mean 0.006169
Std Dev 0.5549

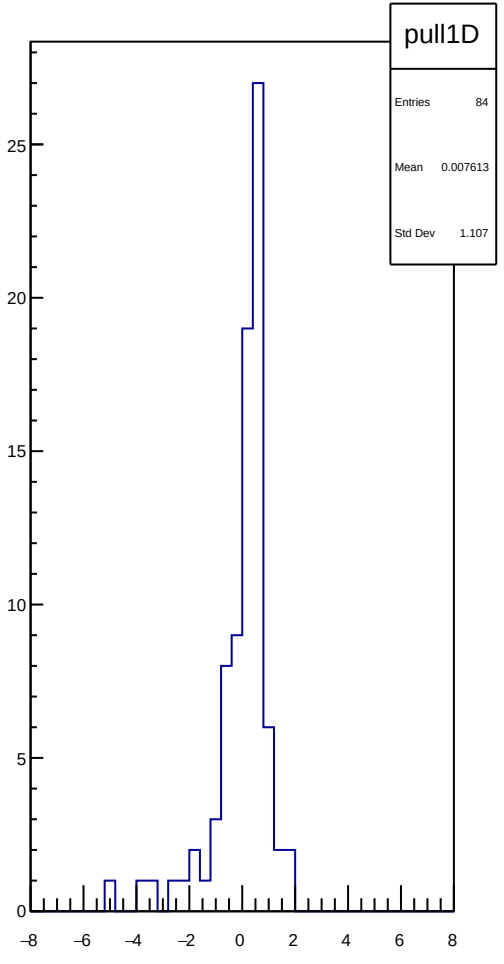

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 95.63 / 83
p0 −3.62 ± 0.2314
pull
Entries 84
Mean 9.982
Std Dev 0
pull1D
Entries 84
Mean 0.1563
Std Dev 1.055

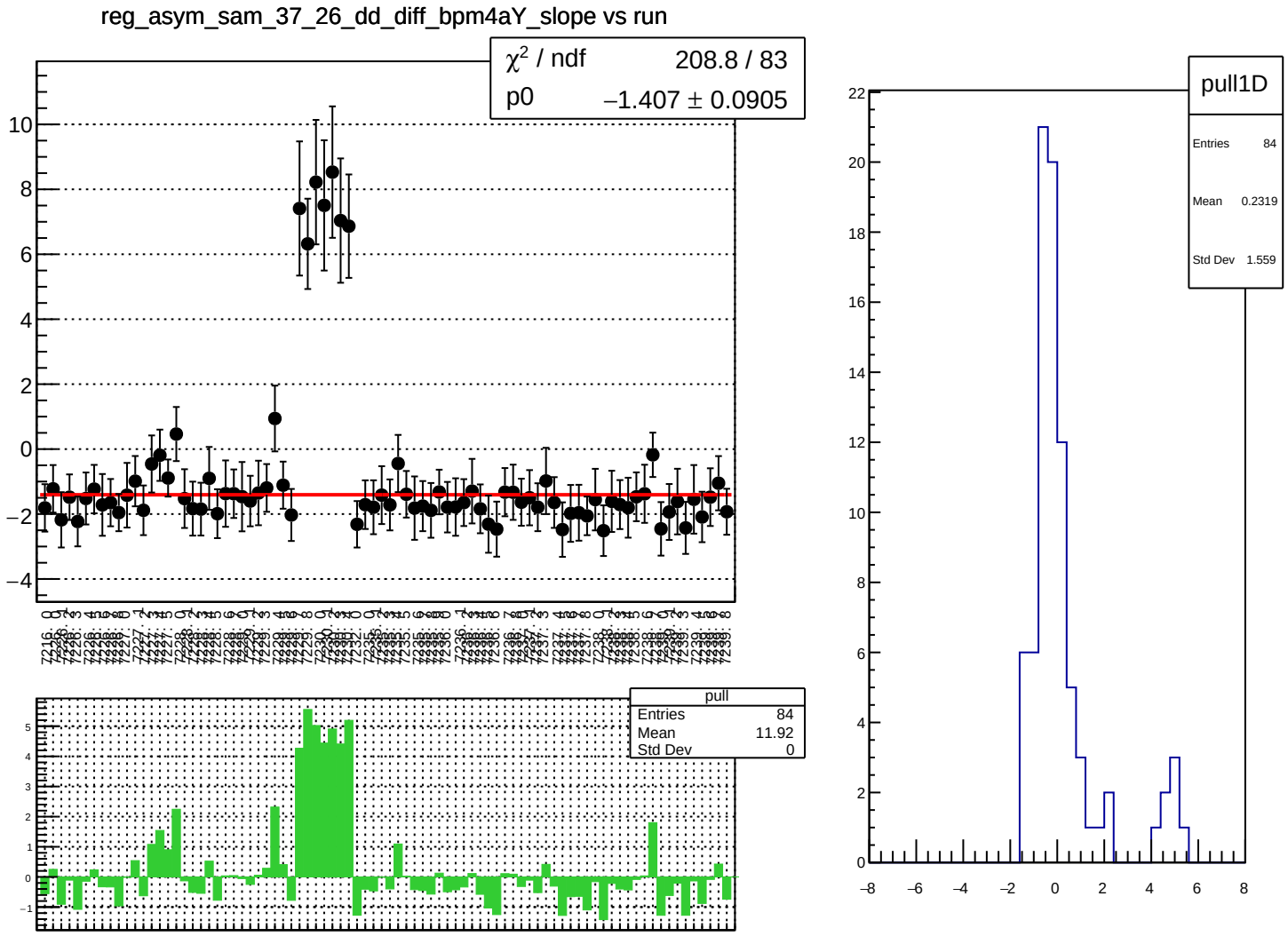

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 21.44 / 83
p0 15.61 ± 0.3134
pull
Entries 84
Mean 434.6
Std Dev 0
pull1D
Entries 84
Mean 0.001344
Std Dev 0.5052

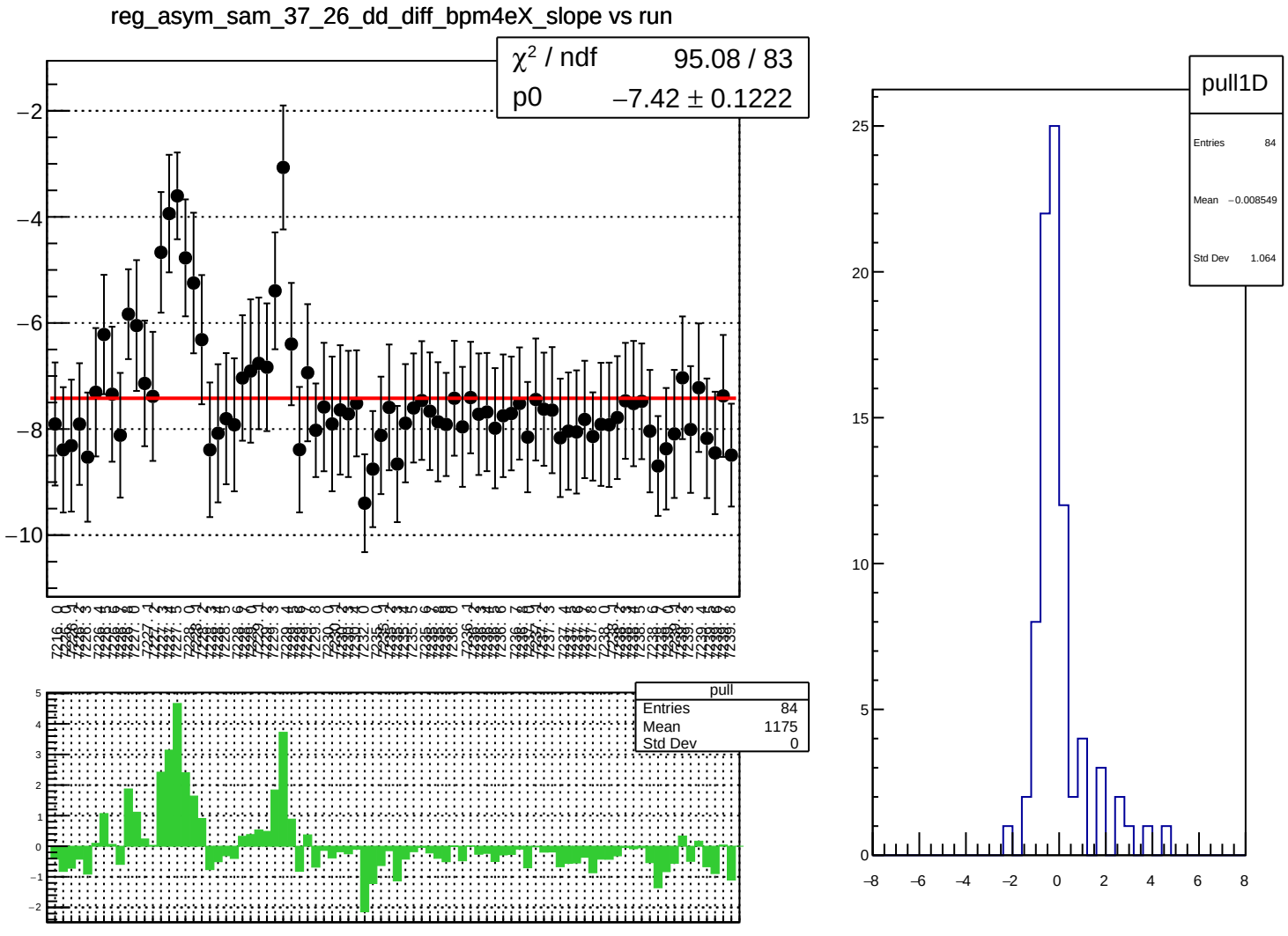

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 100.1 / 83
p0 38.91 ± 0.2542
pull
Entries 84
Mean 6.988
Std Dev 0
pull1D
Entries 84
Mean −0.1211
Std Dev 1.085

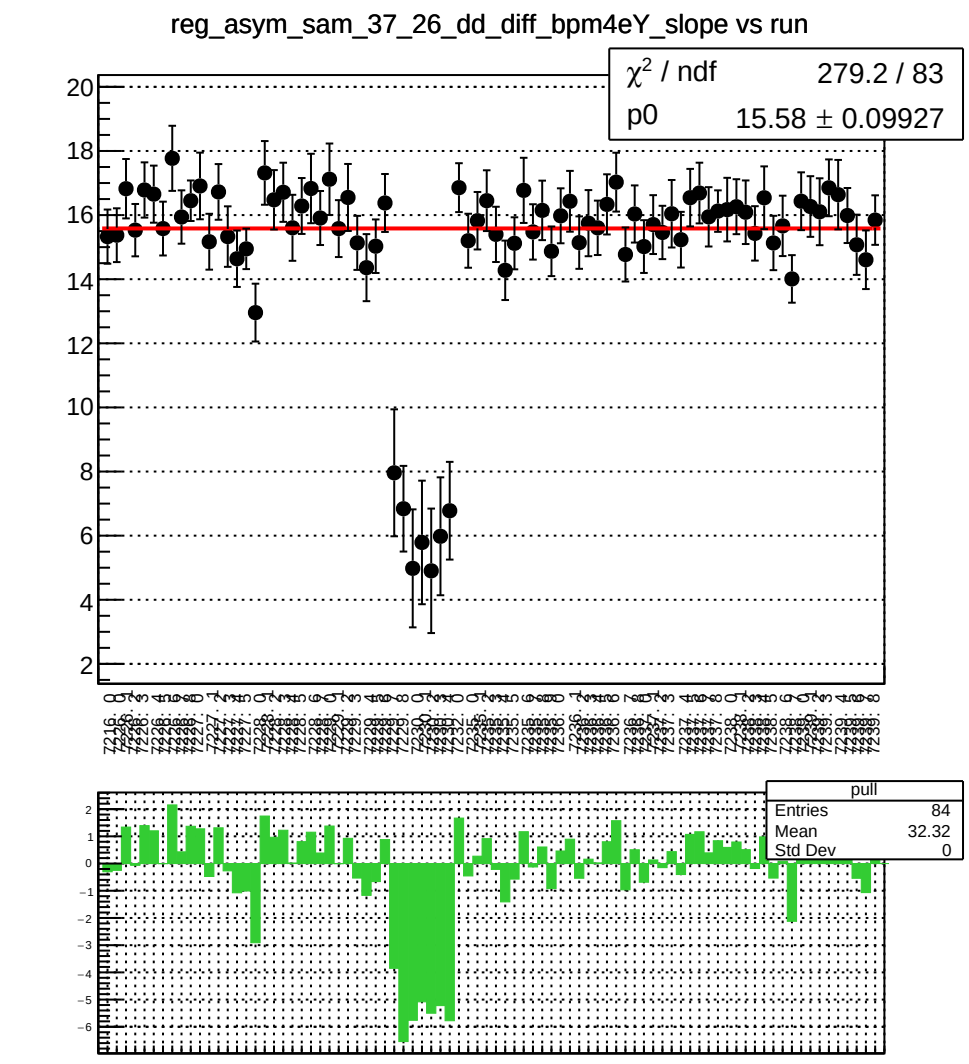

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 17.04 / 83
p0 −0.2374 ± 0.0107
pull
Entries 84
Mean 180.6
Std Dev 0
pull1D
Entries 84
Mean −0.03784
Std Dev 0.4487

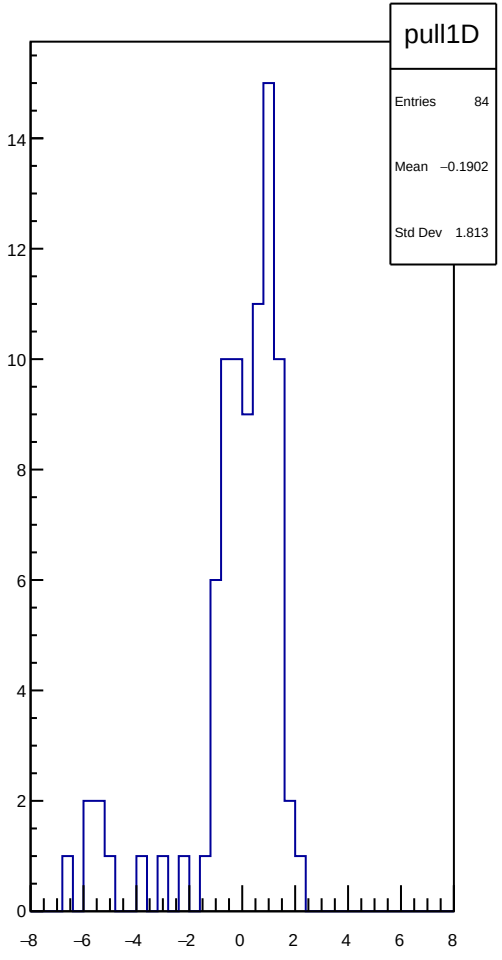

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 102.9 / 83
p0 −0.3936 ± 0.1197
pull
Entries 84
Mean 1212
Std Dev 0

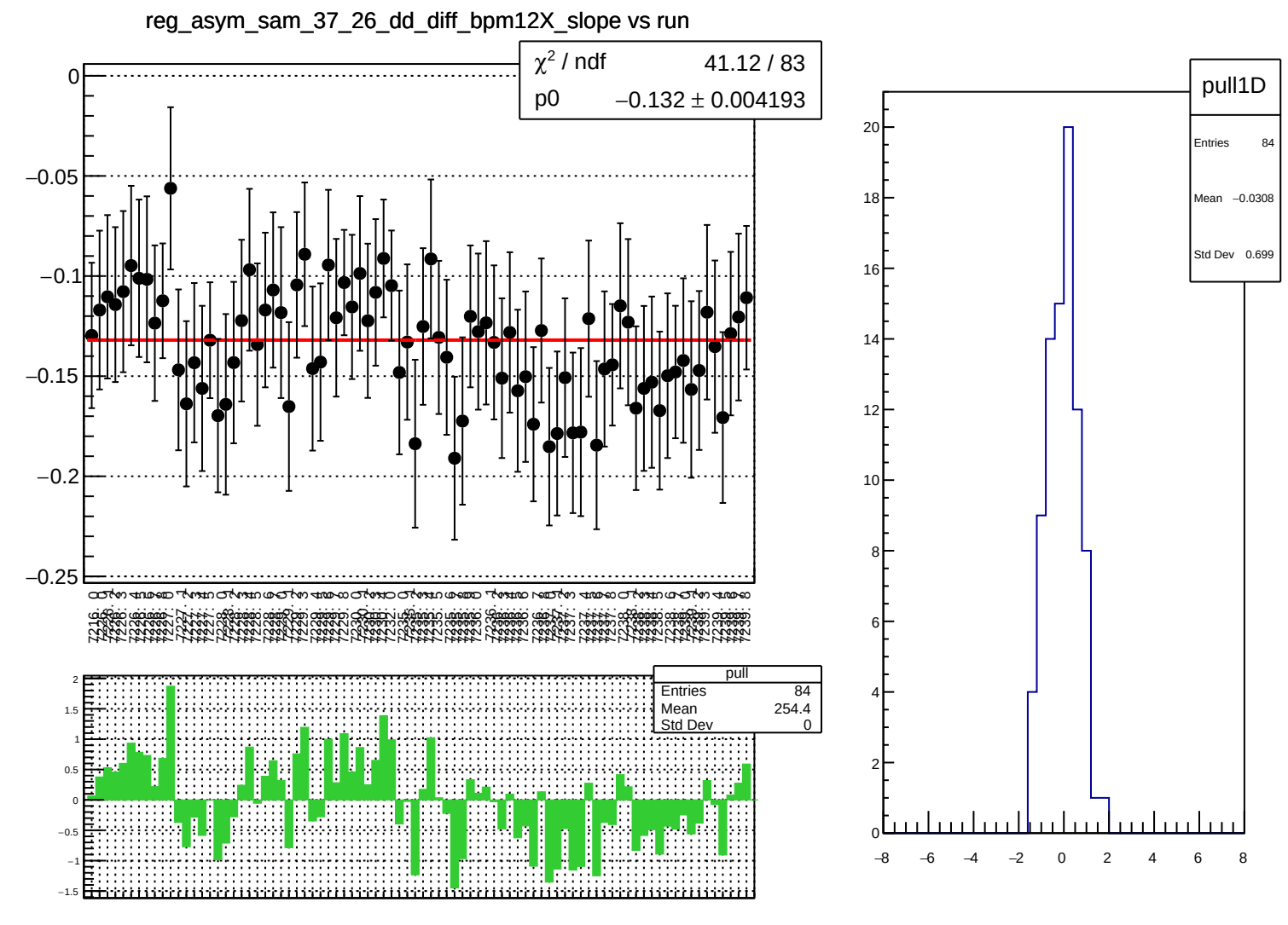

pull1D
Entries 84
Mean 0.007613
Std Dev 1.107

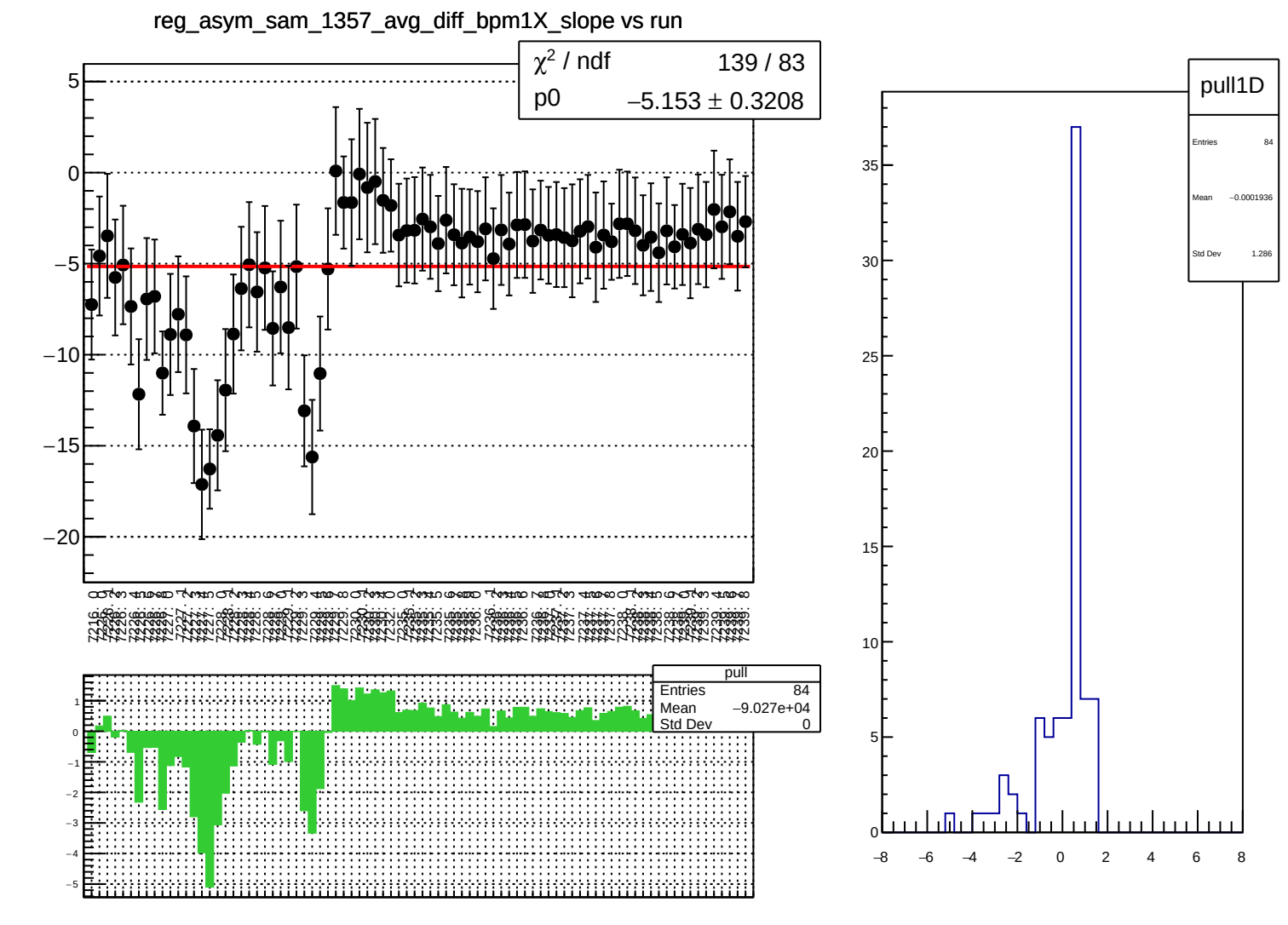

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 208.8 / 83
p0 −1.407 ± 0.0905
pull
Entries 84
Mean 11.92
Std Dev 0
pull1D
Entries 84
Mean 0.2319
Std Dev 1.559

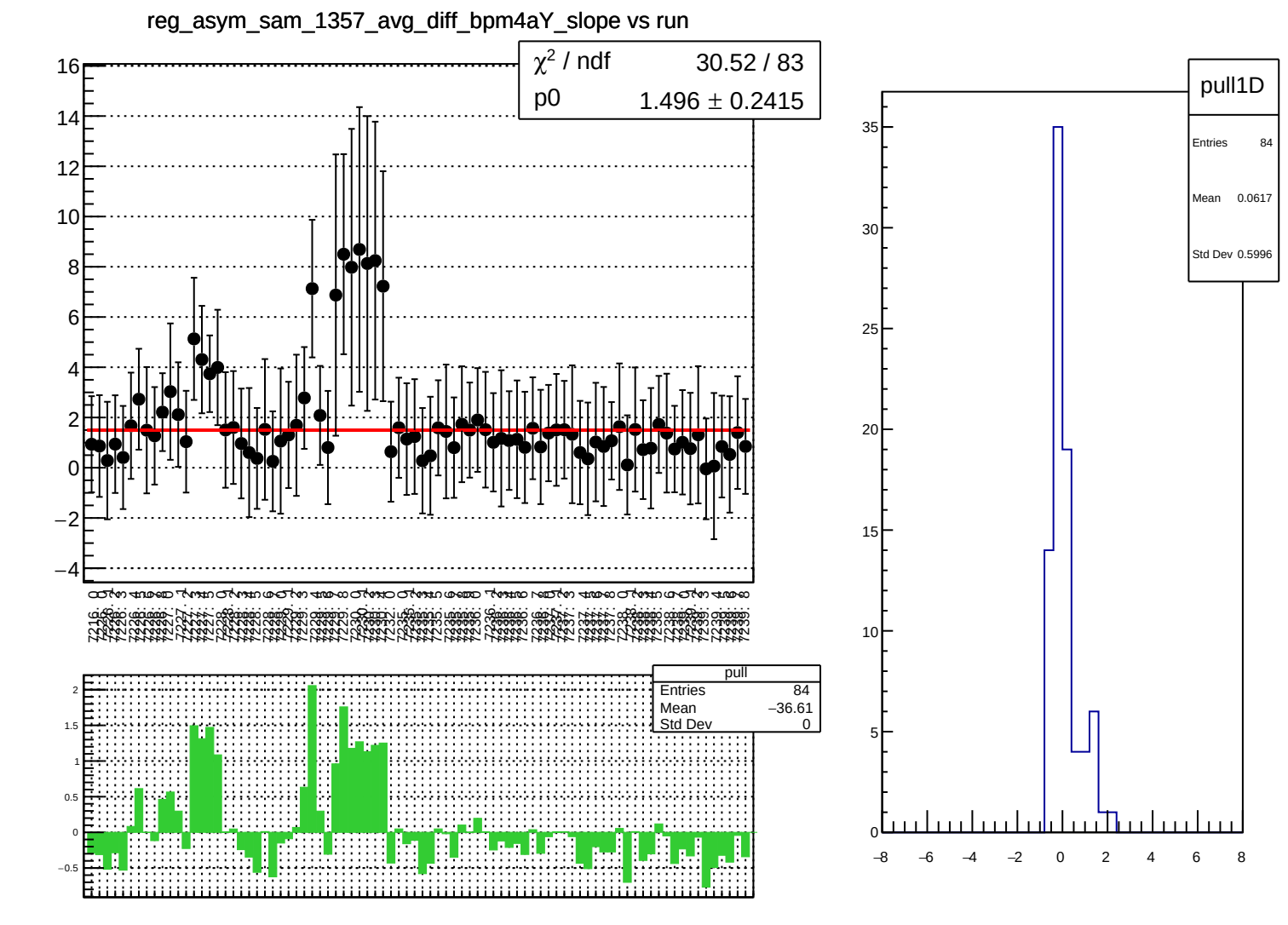

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 95.08 / 83
p0 −7.42 ± 0.1222
pull
Entries 84
Mean 1175
Std Dev 0
pull1D
Entries 84
Mean −0.008549
Std Dev 1.064

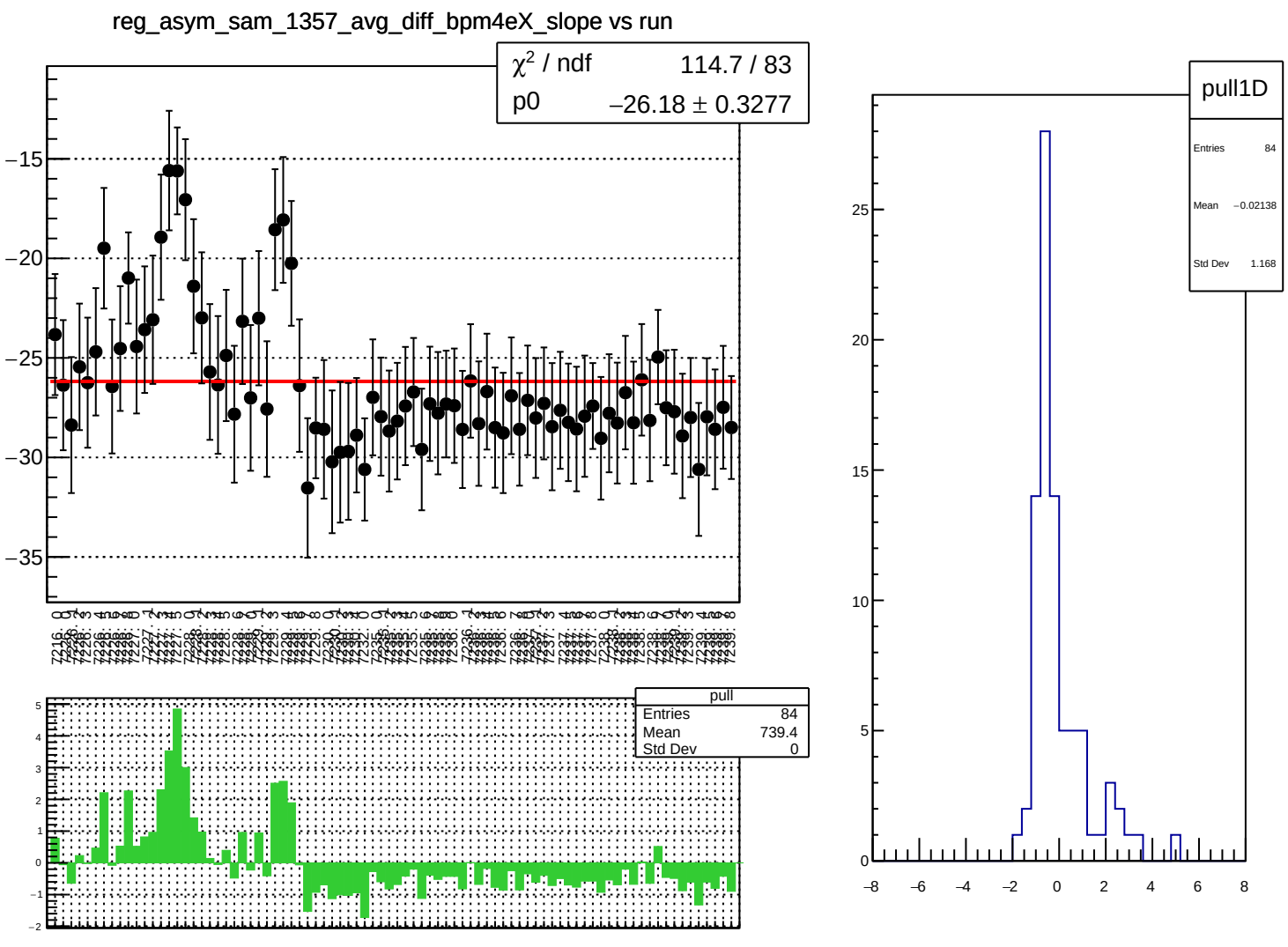

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 279.2 / 83
p0 15.58 ± 0.09927
pull
Entries 84
Mean 32.32
Std Dev 0

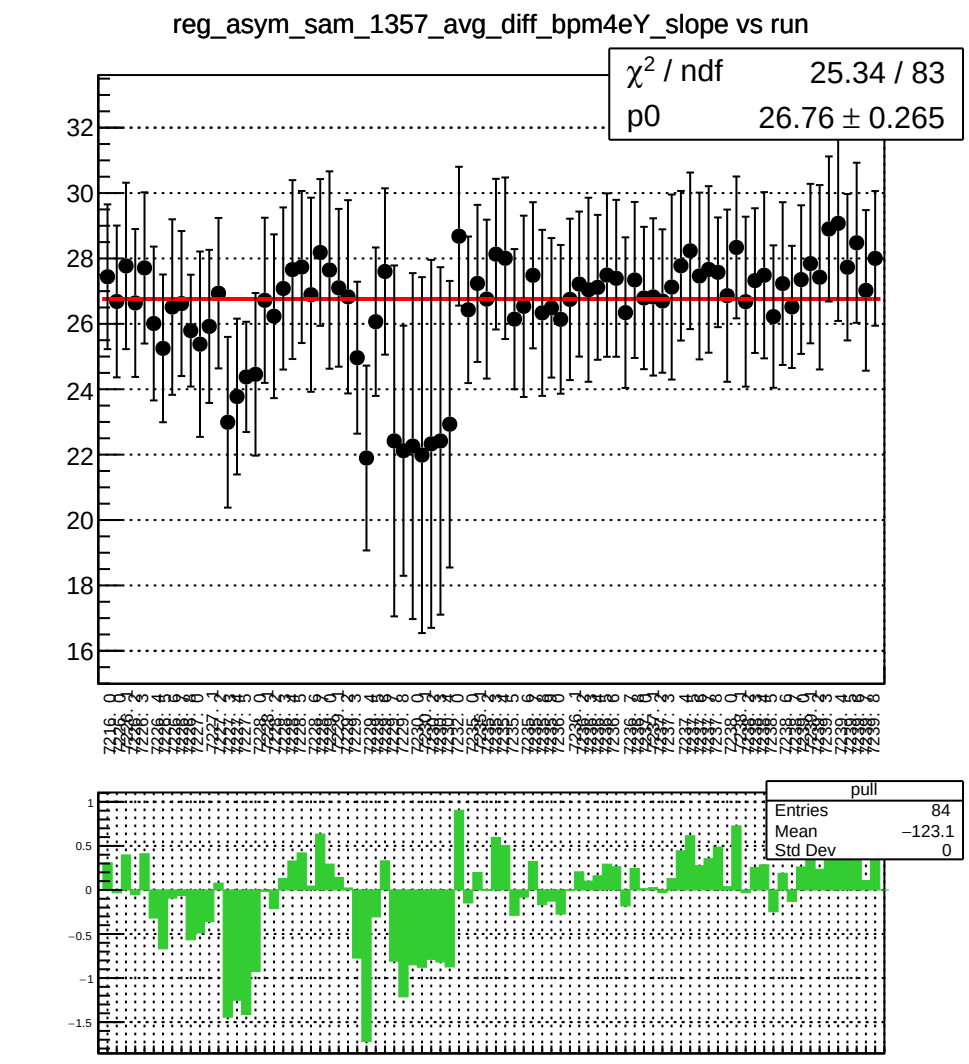

pull1D
Entries 84
Mean −0.1902
Std Dev 1.813

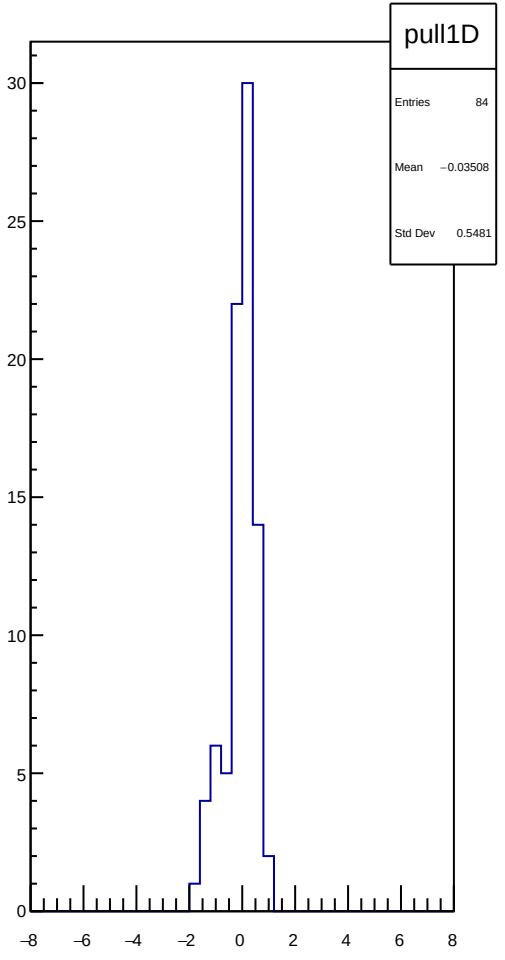

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 41.12 / 83
p0 −0.132 ± 0.004193
pull
Entries 84
Mean 254.4
Std Dev 0
pull1D
Entries 84
Mean −0.0308
Std Dev 0.699

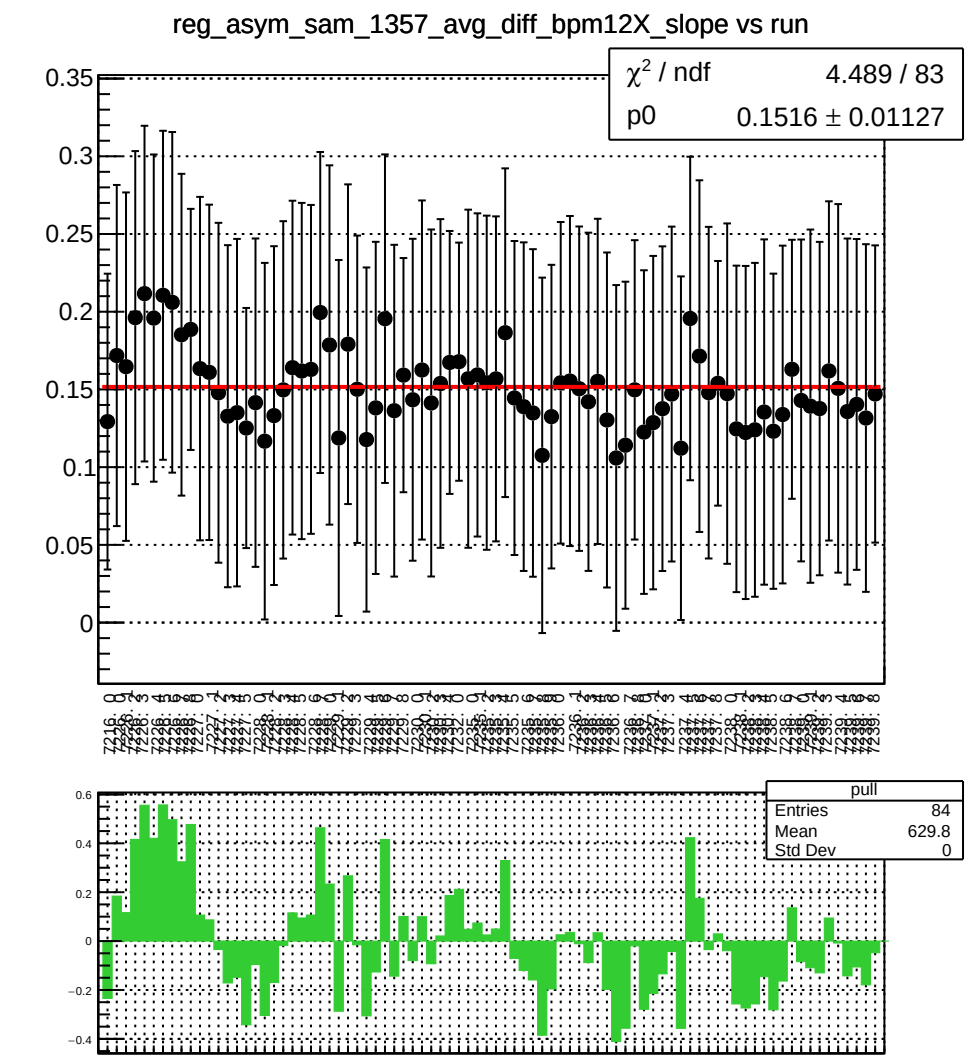

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 139 / 83
p0 −5.153 ± 0.3208
pull
Entries 84
Mean −9.027e+04
Std Dev 0
pull1D
Entries 84
Mean −0.0001936
Std Dev 1.286

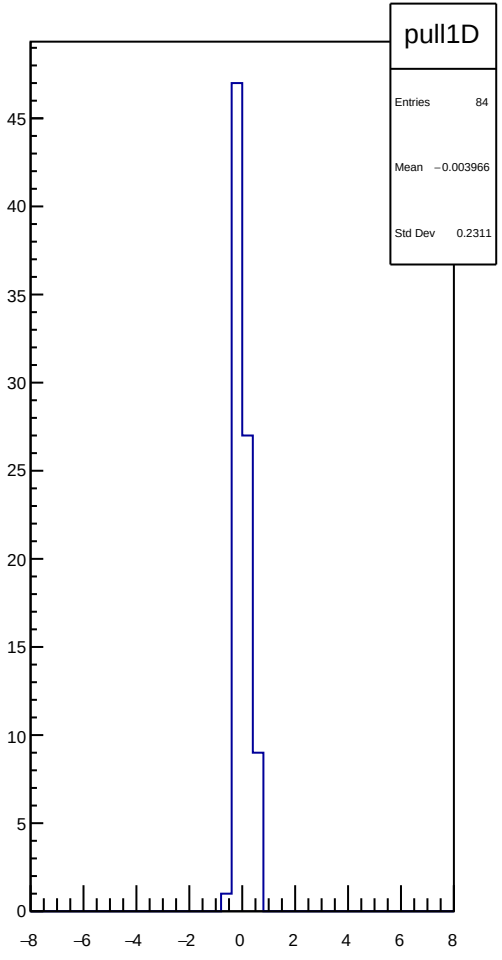

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 30.52 / 83
p0 1.496 ± 0.2415
pull
Entries 84
Mean −36.61
Std Dev 0
pull1D
Entries 84
Mean 0.0617
Std Dev 0.5996

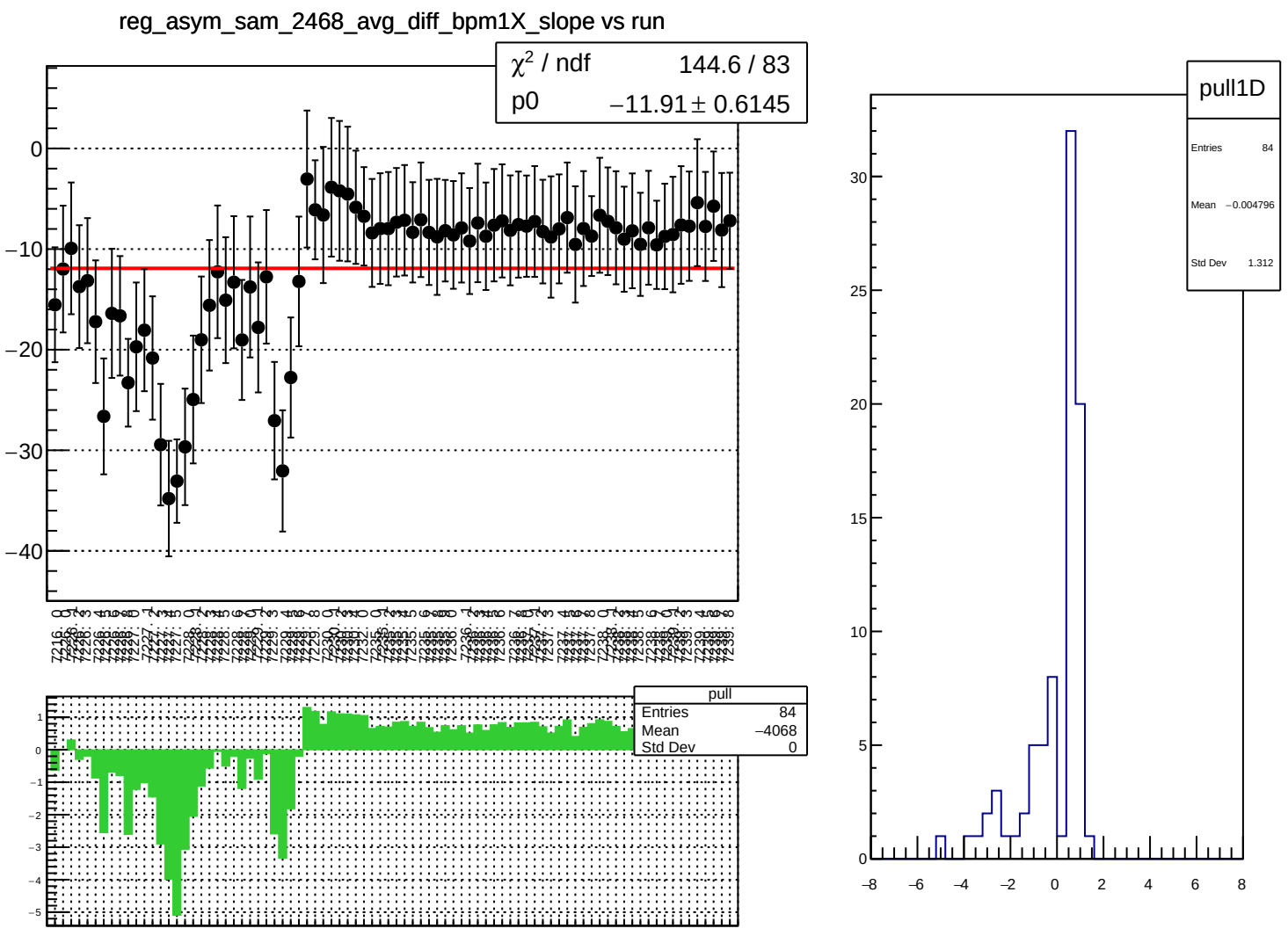

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 114.7 / 83
p0 −26.18 ± 0.3277
pull
Entries 84
Mean 739.4
Std Dev 0
pull1D
Entries 84
Mean −0.02138
Std Dev 1.168

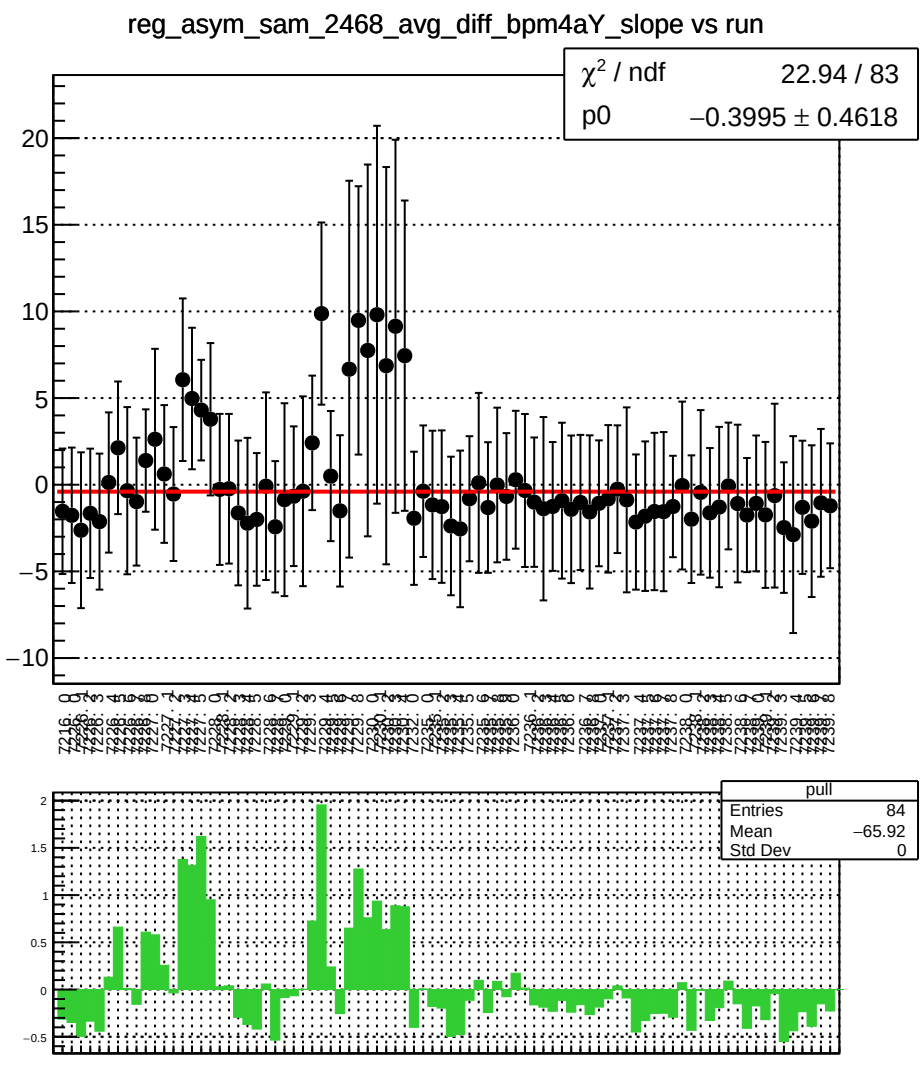

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 25.34 / 83
p0 26.76 ± 0.265
pull
Entries 84
Mean −123.1
Std Dev 0

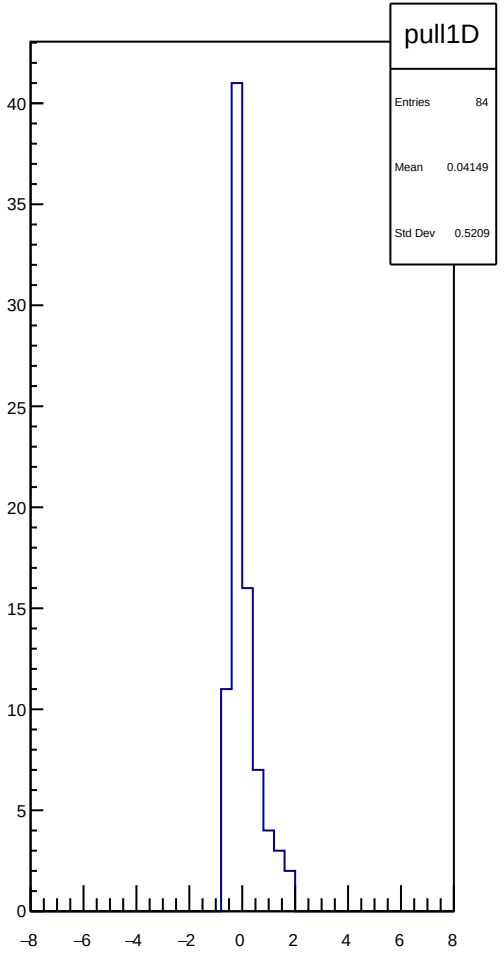

pull1D
Entries 84
Mean −0.03508
Std Dev 0.5481

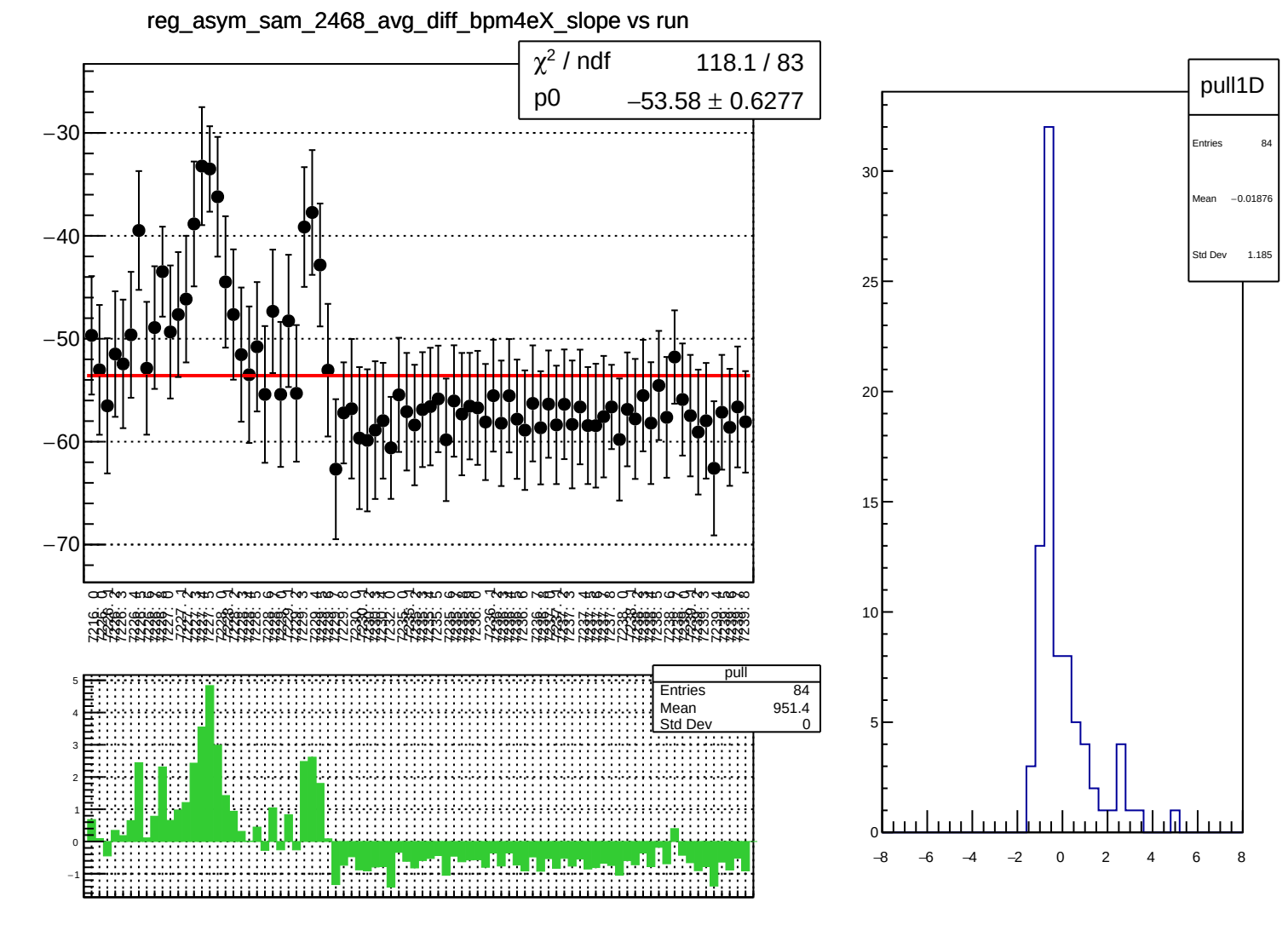

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 4.489 / 83
p0 0.1516 ± 0.01127
pull
Entries 84
Mean 629.8
Std Dev 0

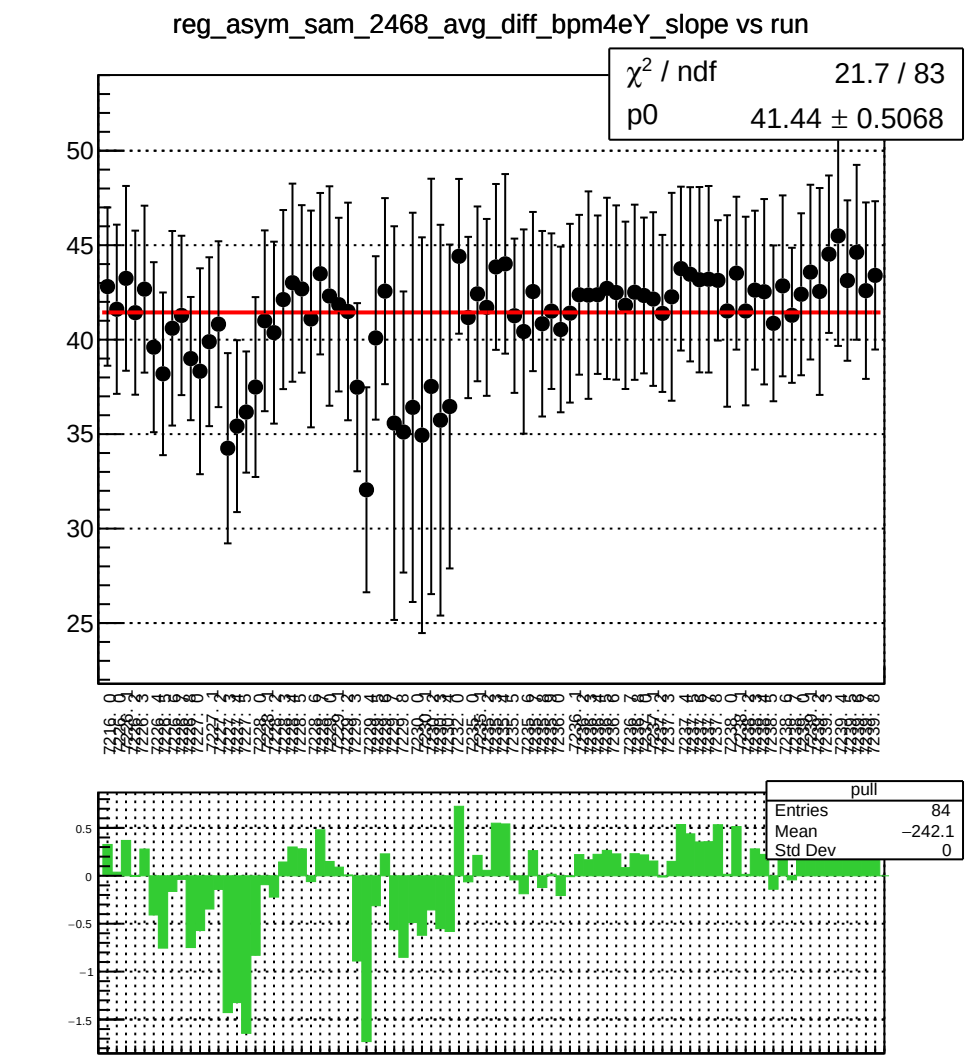

pull1D
Entries 84
Mean −0.003966
Std Dev 0.2311

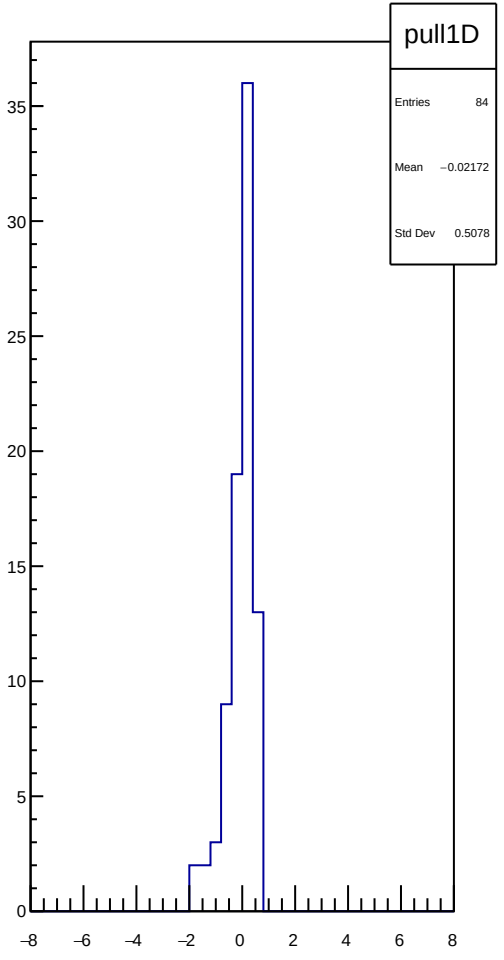

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 144.6 / 83
p0 −11.91 ± 0.6145
0
−10
−20
−30
−40
pull
Entries 84
Mean −4068
Std Dev 0
1
0
−1
−2
−3
−4
−5
pull1D
Entries 84
Mean −0.004796
Std Dev 1.312
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

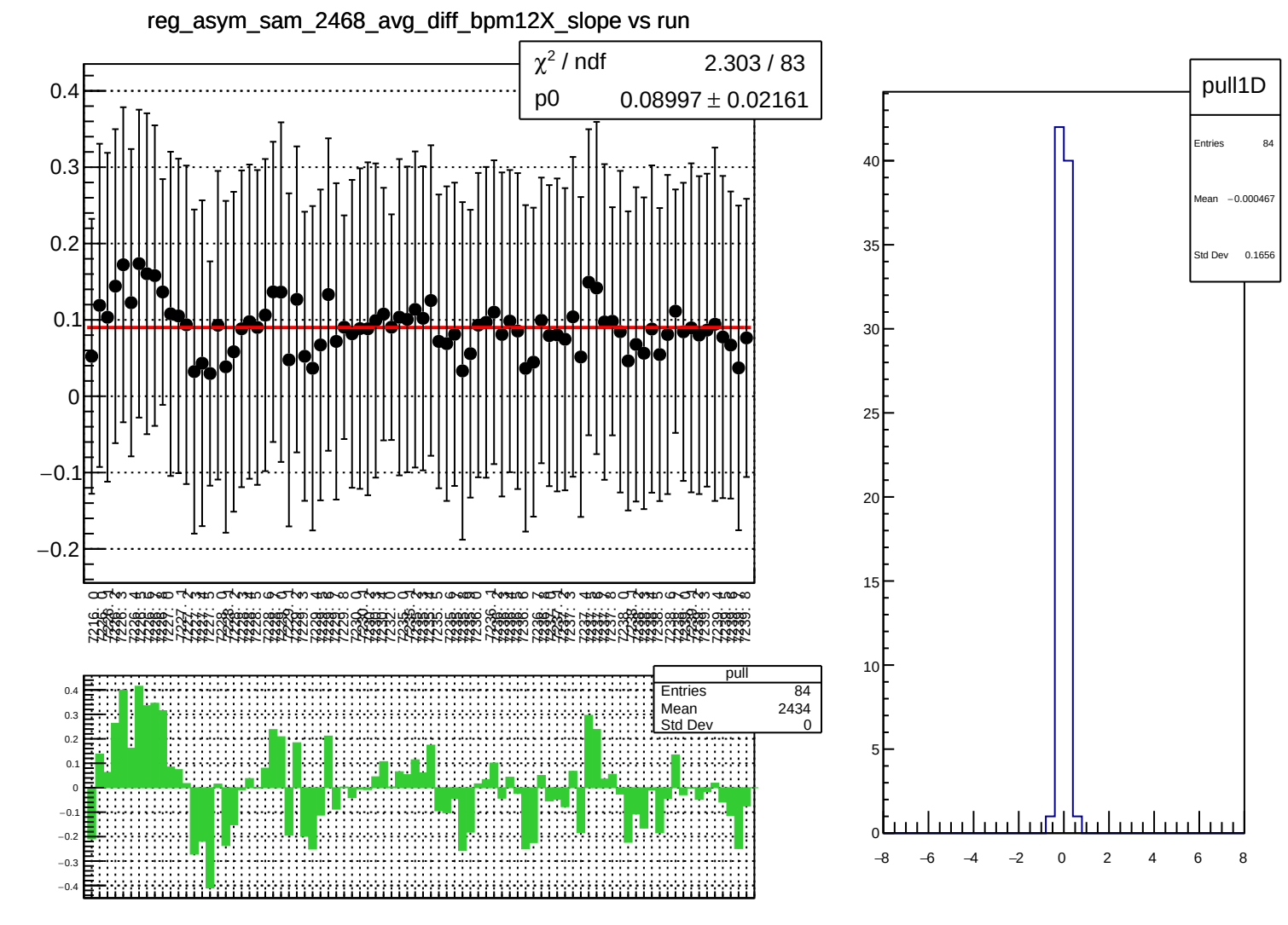

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 22.94 / 83
p0 −0.3995 ± 0.4618
pull
Entries 84
Mean −65.92
Std Dev 0

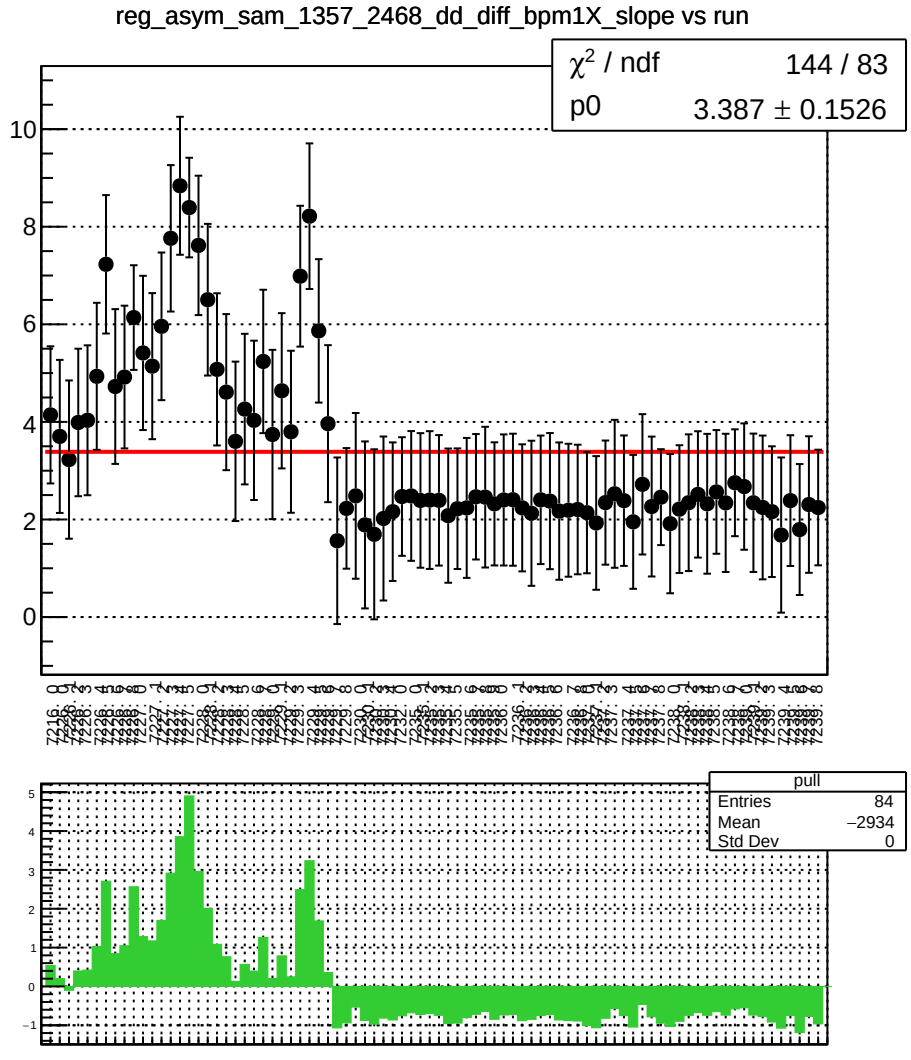

pull1D
Entries 84
Mean 0.04149
Std Dev 0.5209

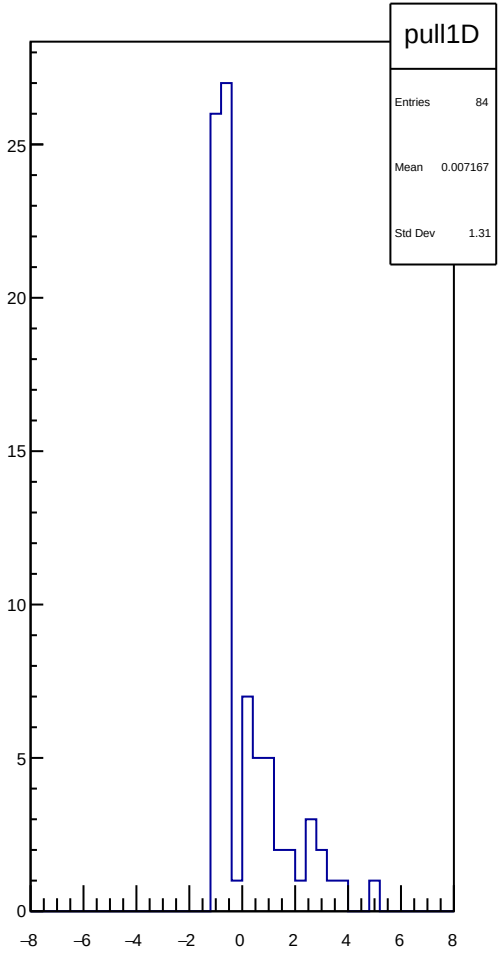

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 118.1 / 83
p0 −53.58 ± 0.6277
−30
−40
−50
−60
−70
pull
Entries 84
Mean 951.4
Std Dev 0
5
4
3
2
1
0
−1
pull1D
Entries 84
Mean −0.01876
Std Dev 1.185
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

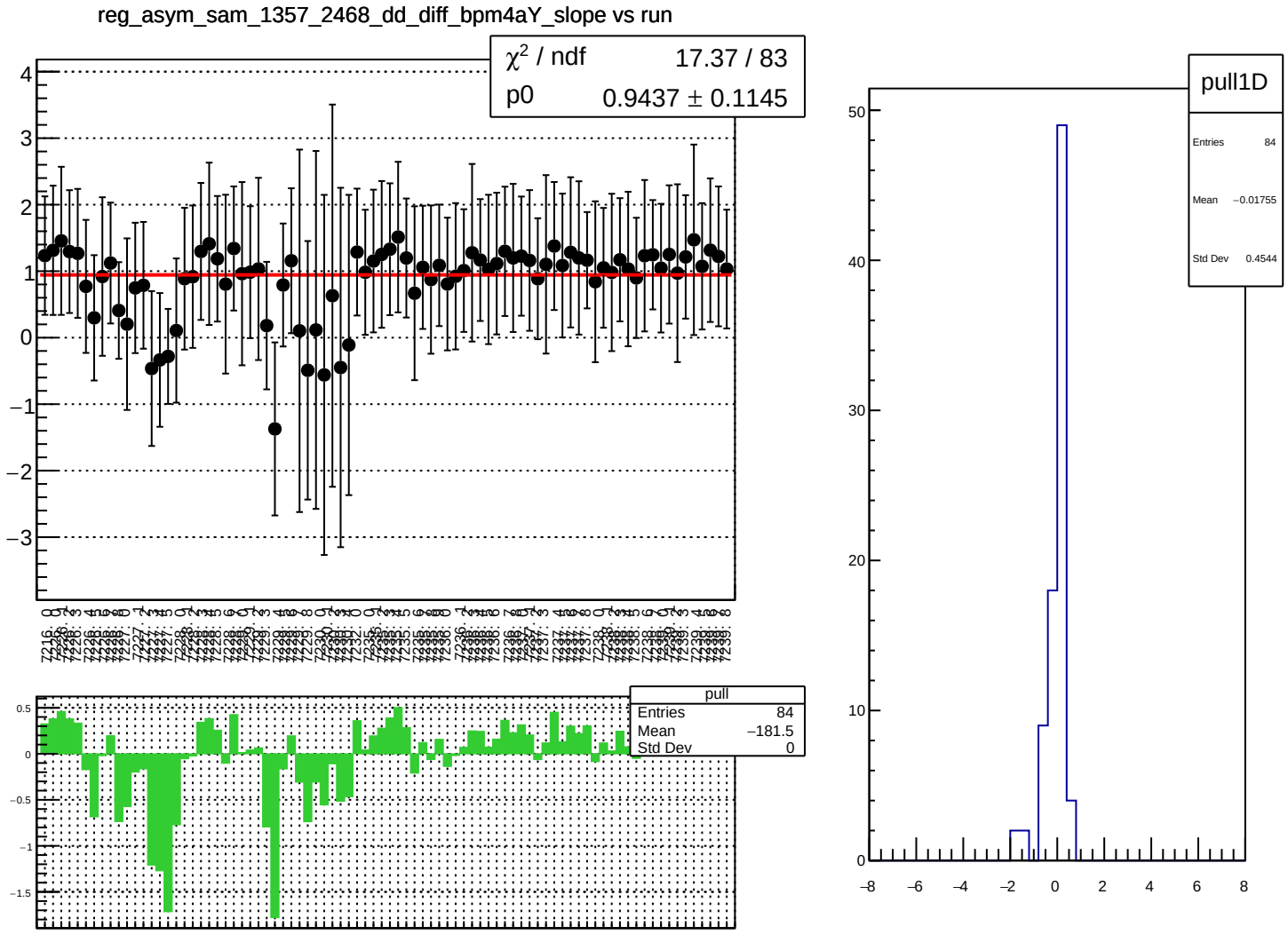

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 21.7 / 83
p0 41.44 ± 0.5068
pull
Entries 84
Mean −242.1
Std Dev 0

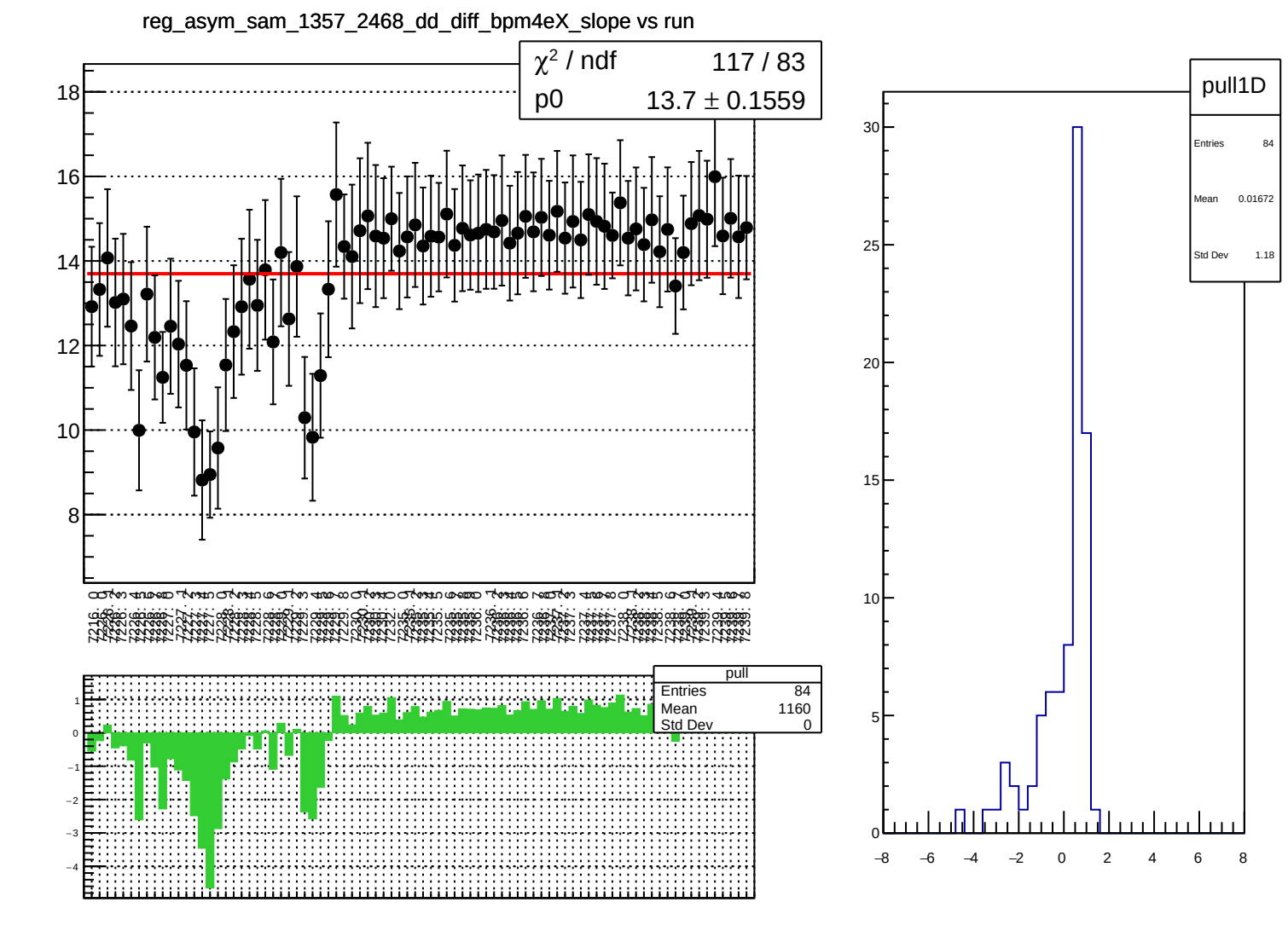

pull1D
Entries 84
Mean −0.02172
Std Dev 0.5078

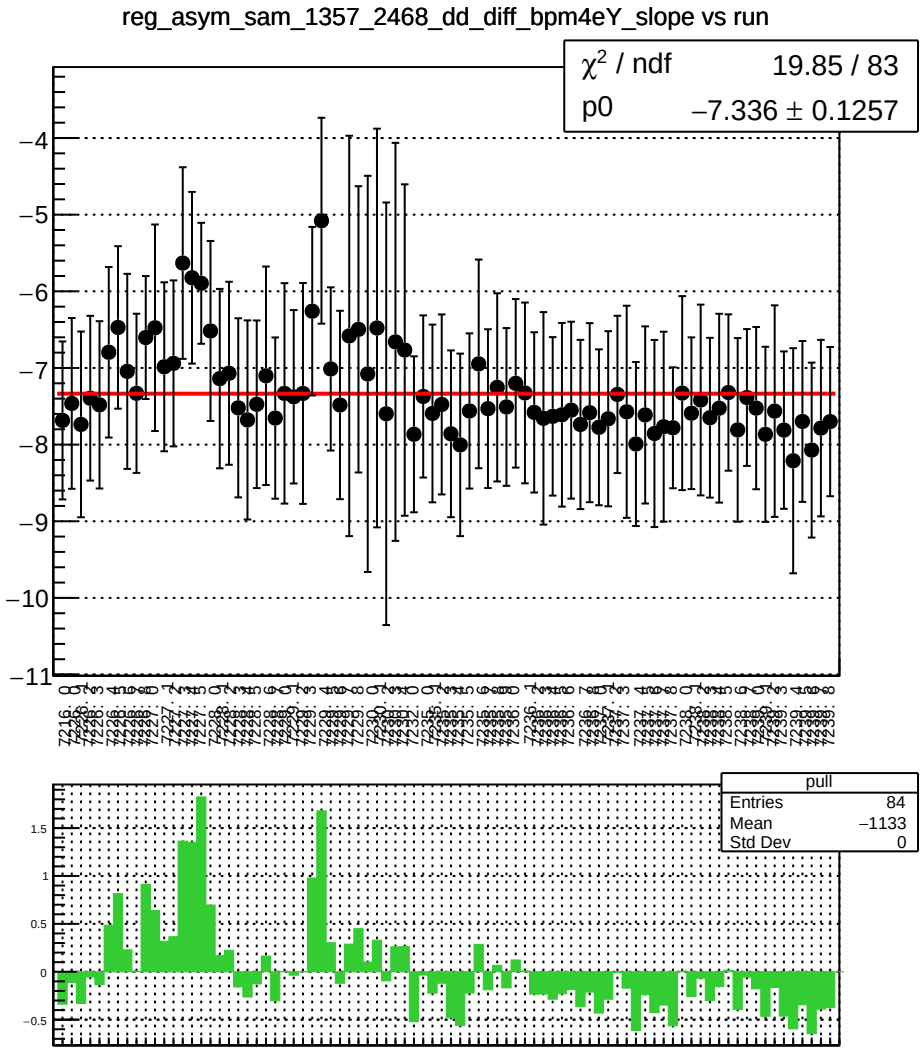

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 2.303 / 83
p0 0.08997 ± 0.02161
pull
Entries 84
Mean 2434
Std Dev 0
pull1D
Entries 84
Mean −0.000467
Std Dev 0.1656

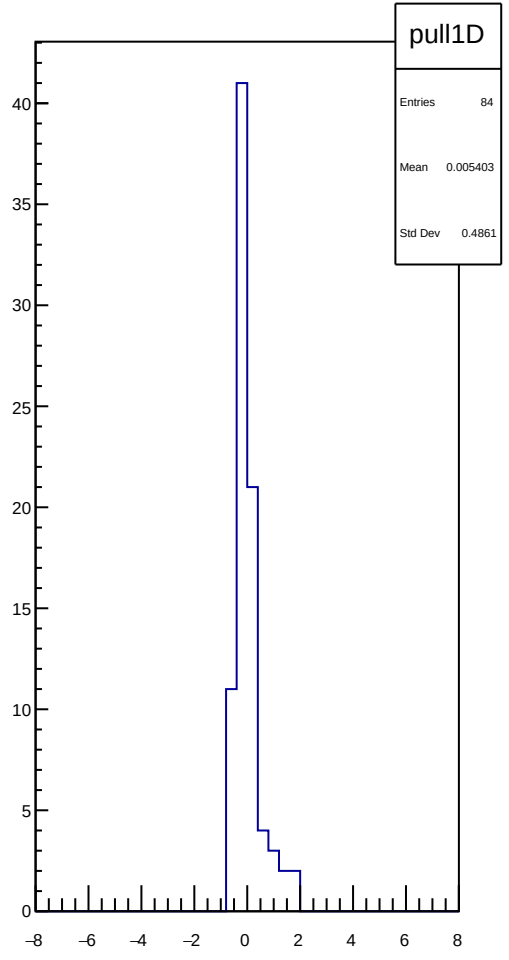

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 144 / 83
p0 3.387 ± 0.1526
pull
Entries 84
Mean −2934
Std Dev 0

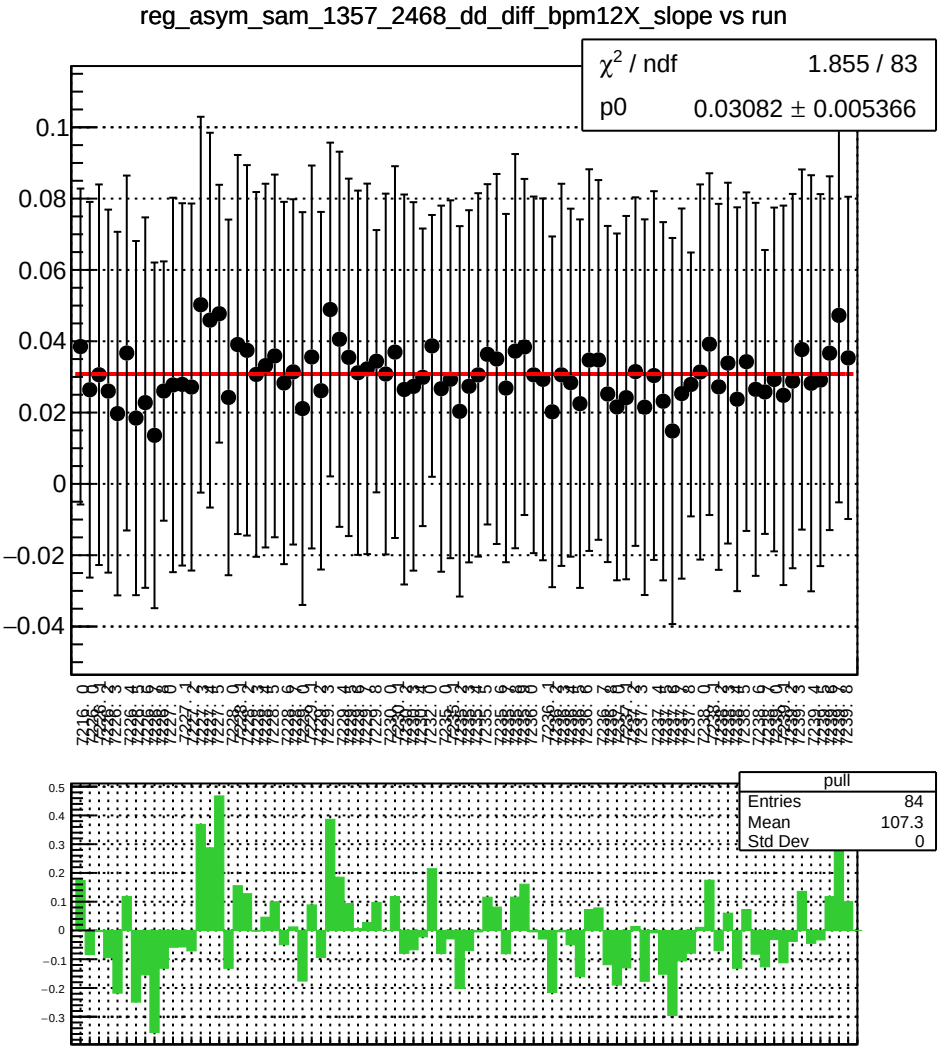

pull1D
Entries 84
Mean 0.007167
Std Dev 1.31

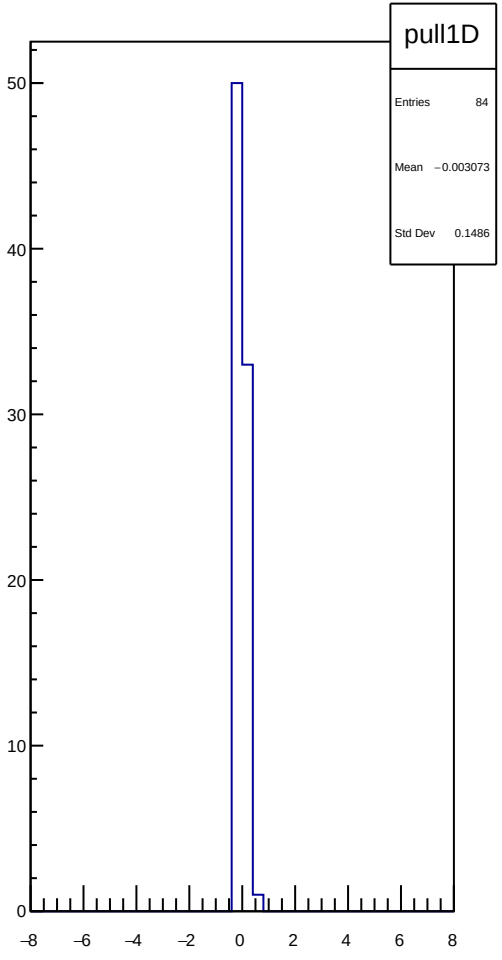

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.37 / 83
p0 0.9437 ± 0.1145
pull
Entries 84
Mean −181.5
Std Dev 0
pull1D
Entries 84
Mean −0.01755
Std Dev 0.4544

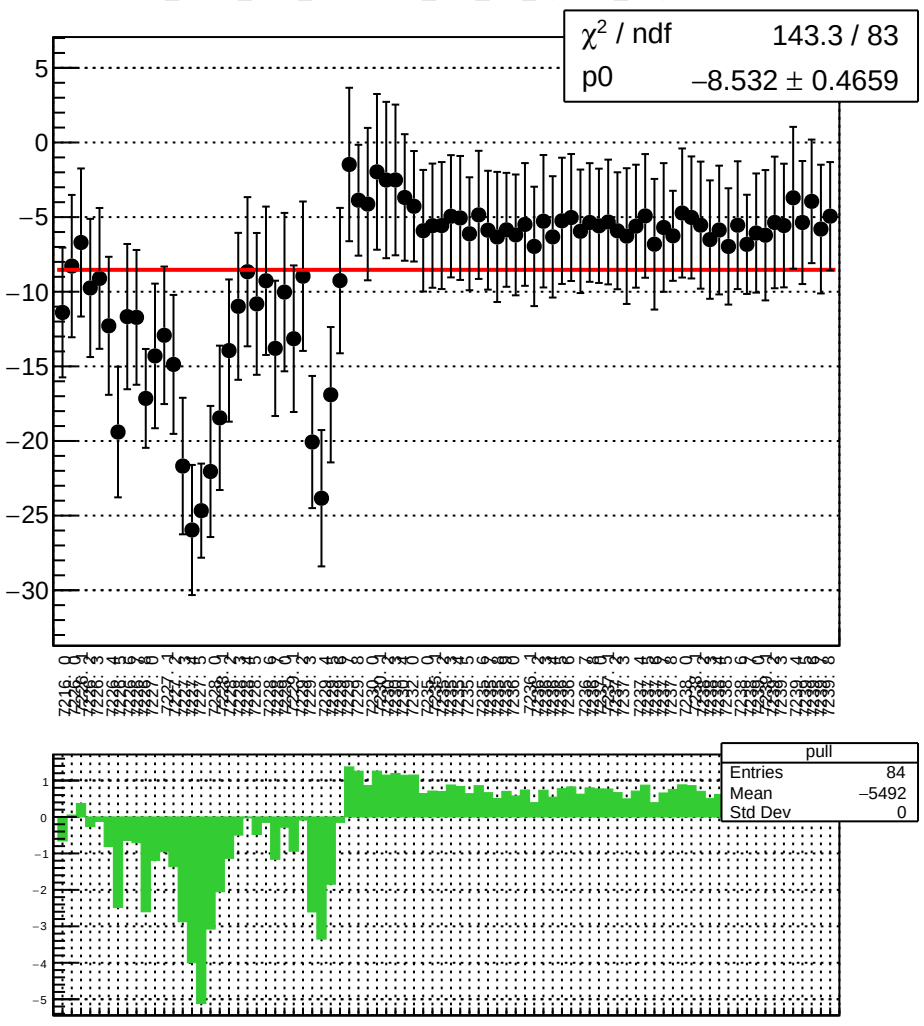

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 117 / 83
p0 13.7 ± 0.1559
pull
Entries 84
Mean 1160
Std Dev 0
pull1D
Entries 84
Mean 0.01672
Std Dev 1.18

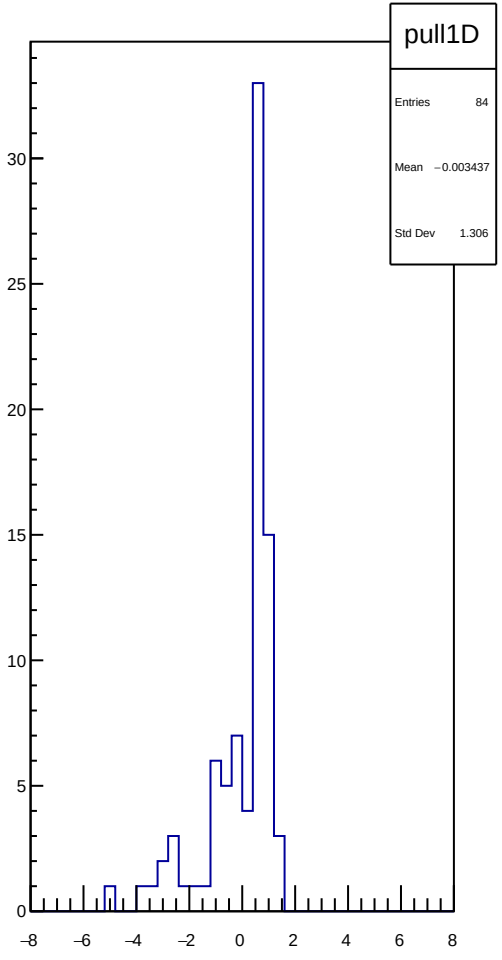

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.85 / 83
p0 −7.336 ± 0.1257
pull
Entries 84
Mean −1133
Std Dev 0

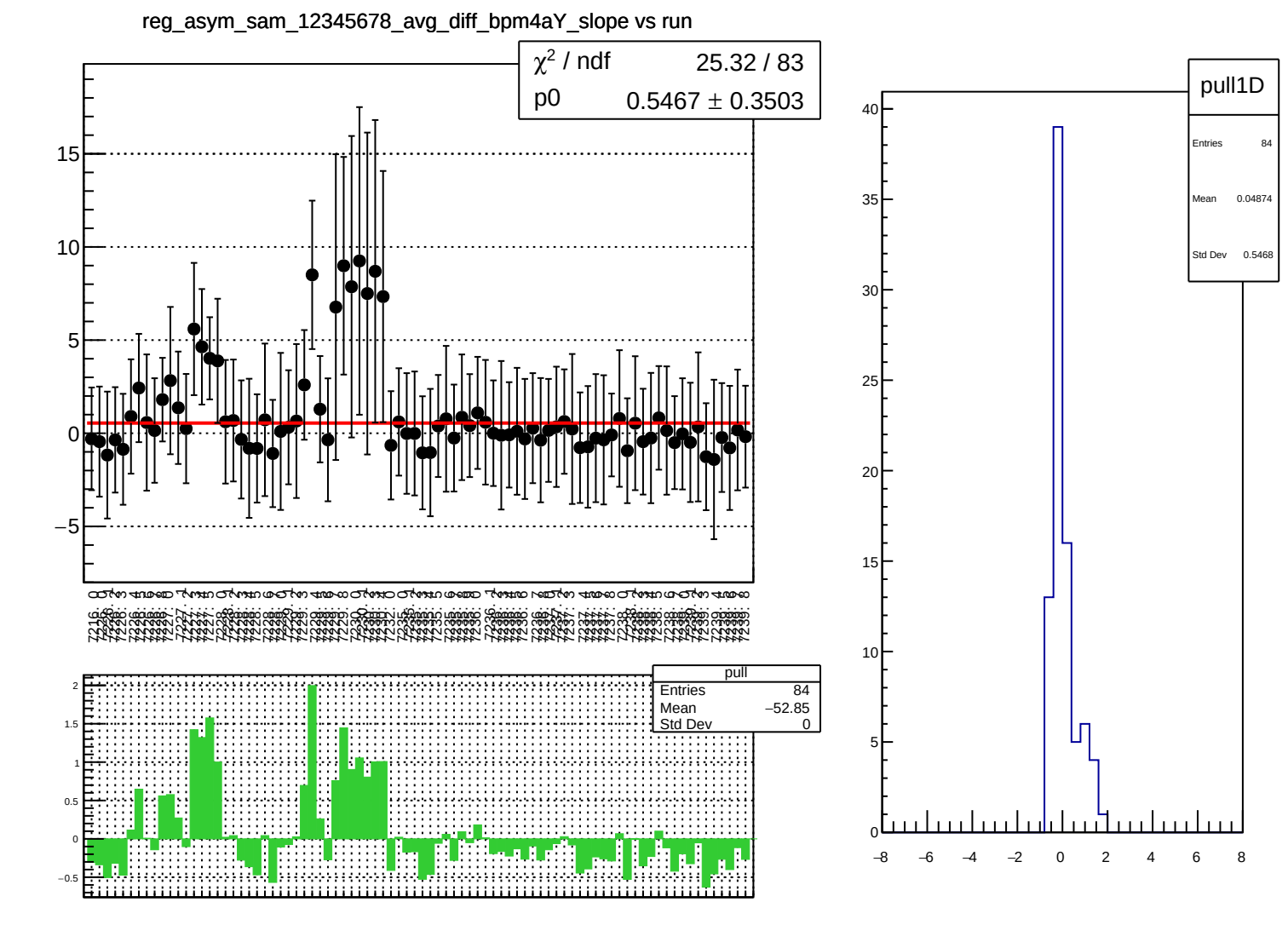

pull1D
Entries 84
Mean 0.005403
Std Dev 0.4861

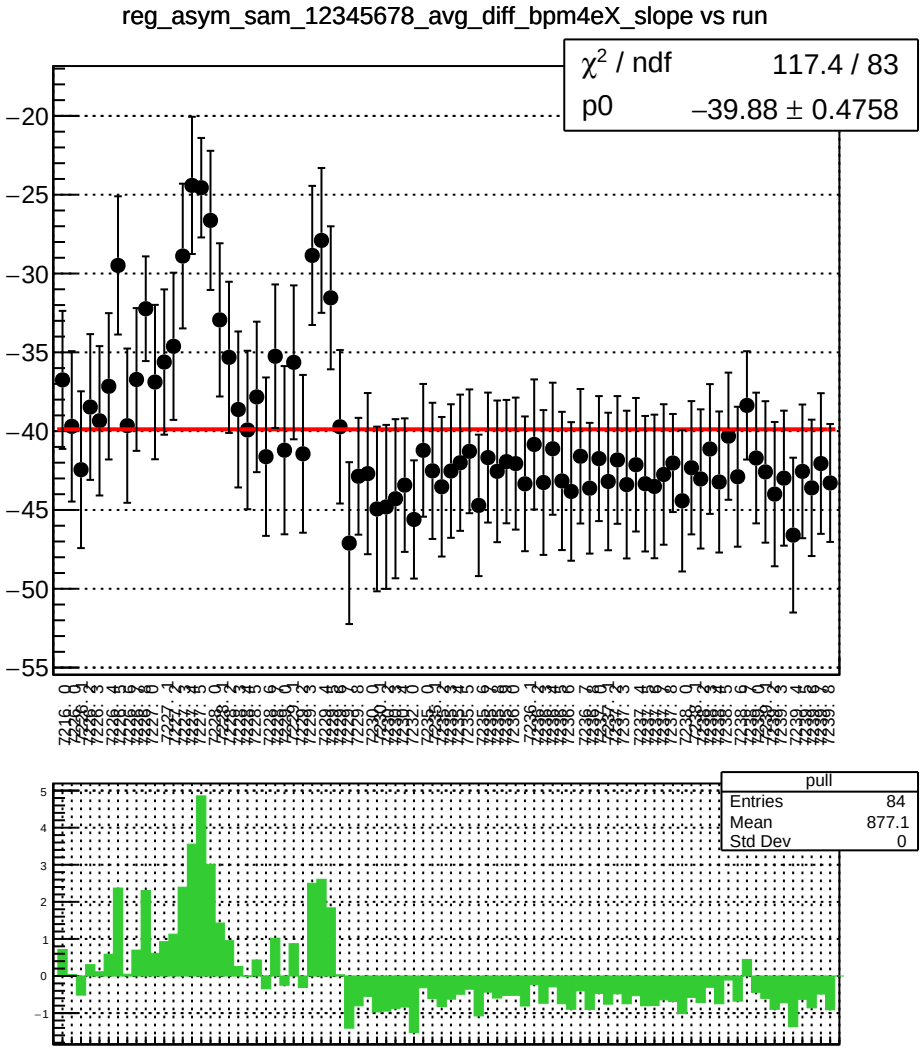

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 1.855 / 83
p0 0.03082 ± 0.005366
pull
Entries 84
Mean 107.3
Std Dev 0

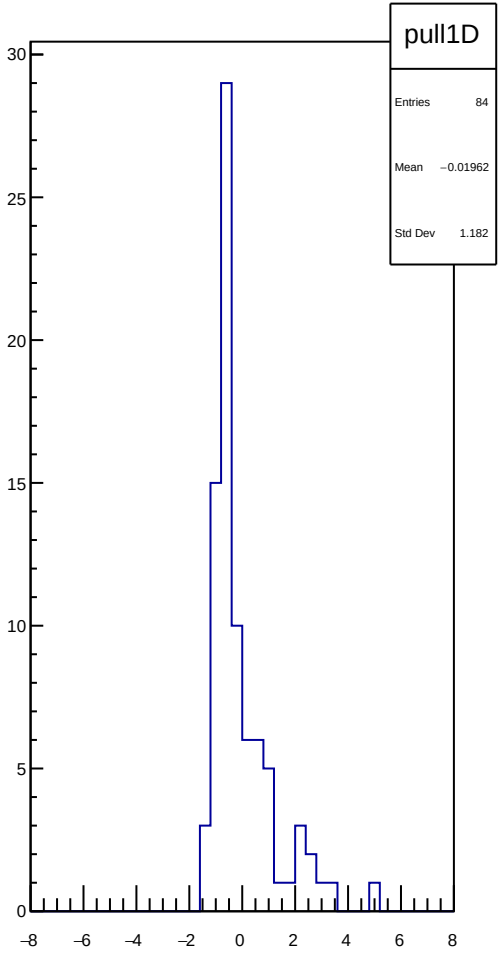

pull1D
Entries 84
Mean −0.003073
Std Dev 0.1486

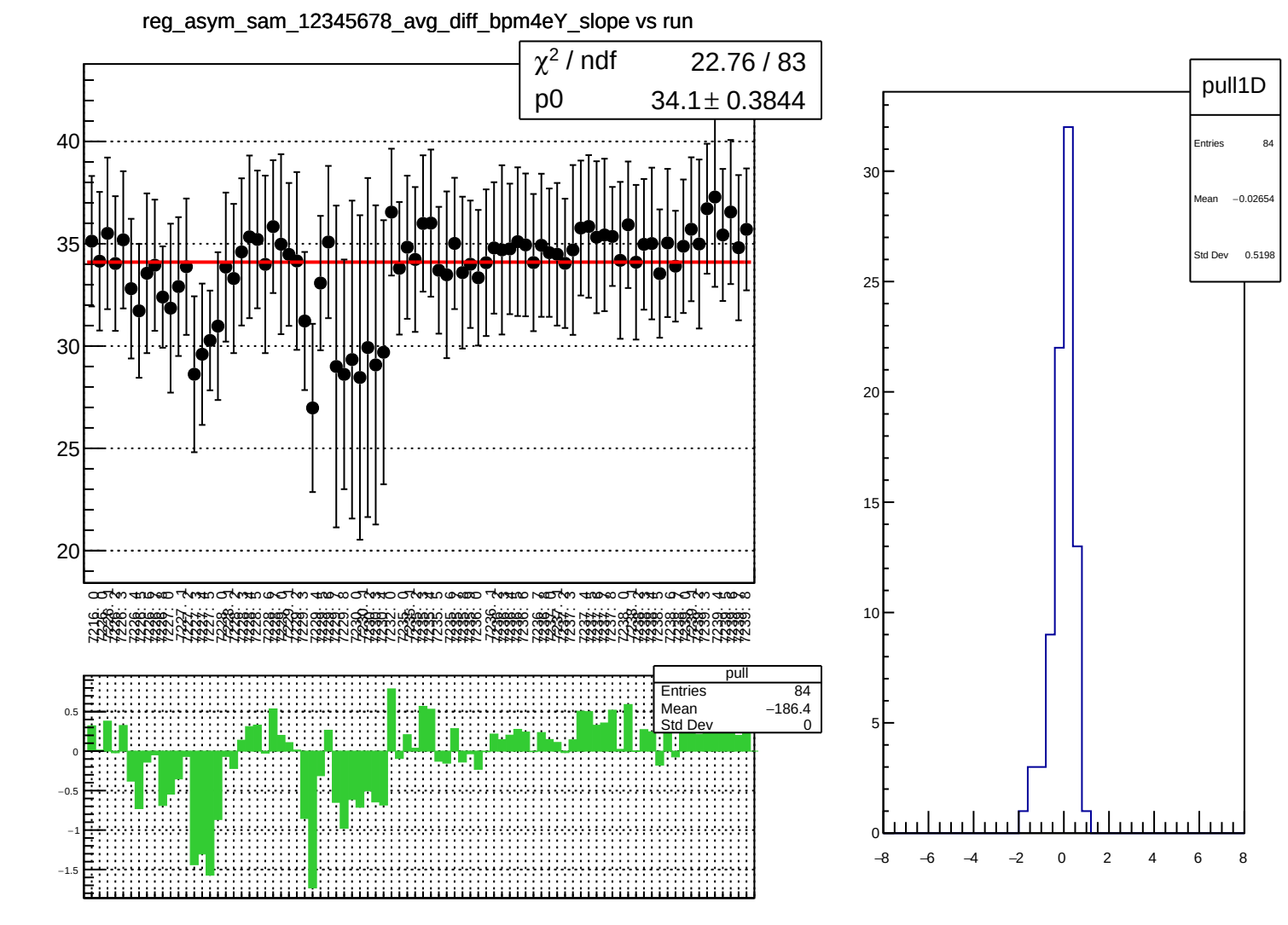

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 143.3 / 83
p0 −8.532 ± 0.4659
pull
Entries 84
Mean −5492
Std Dev 0

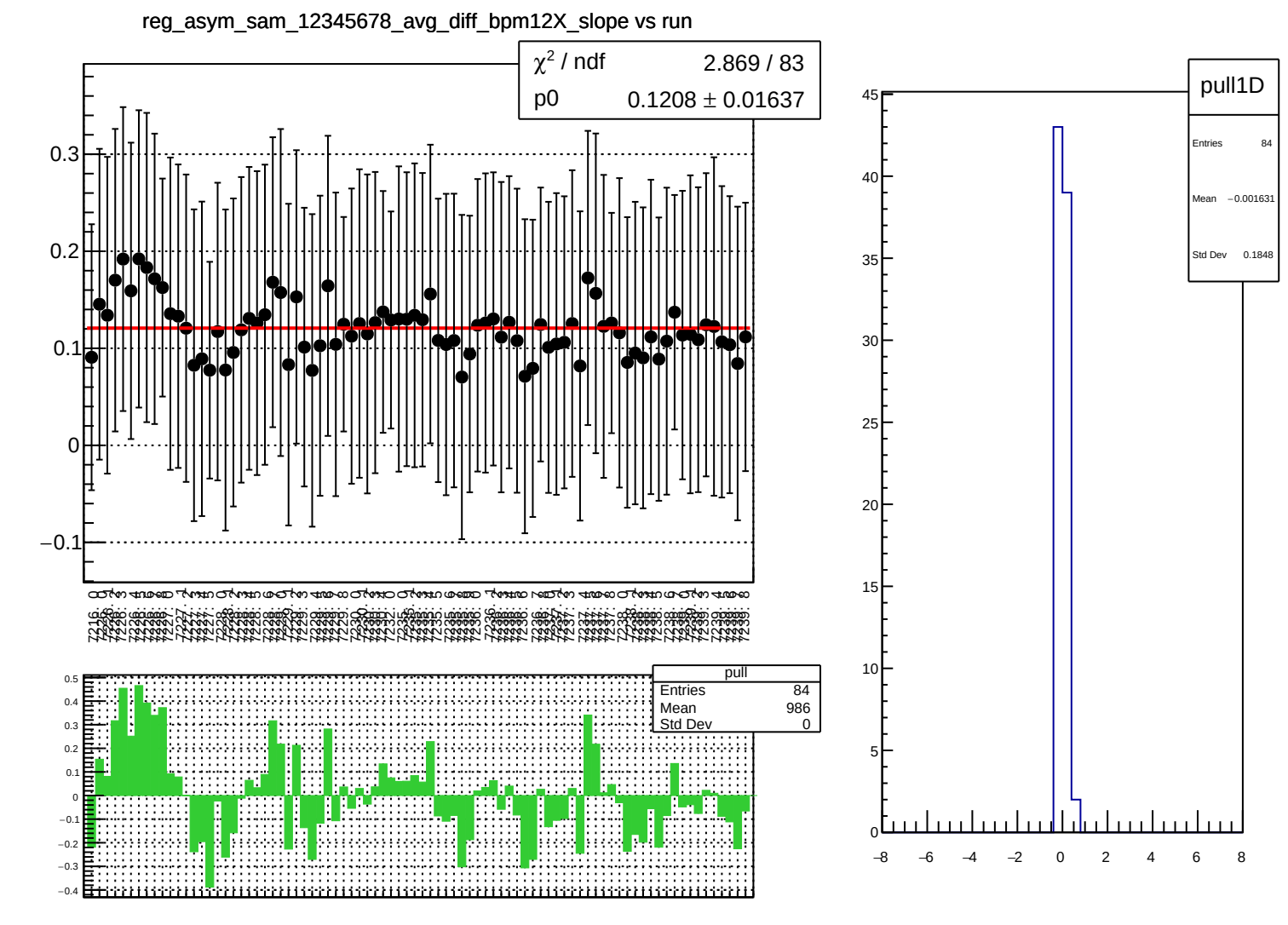

pull1D
Entries 84
Mean −0.003437
Std Dev 1.306

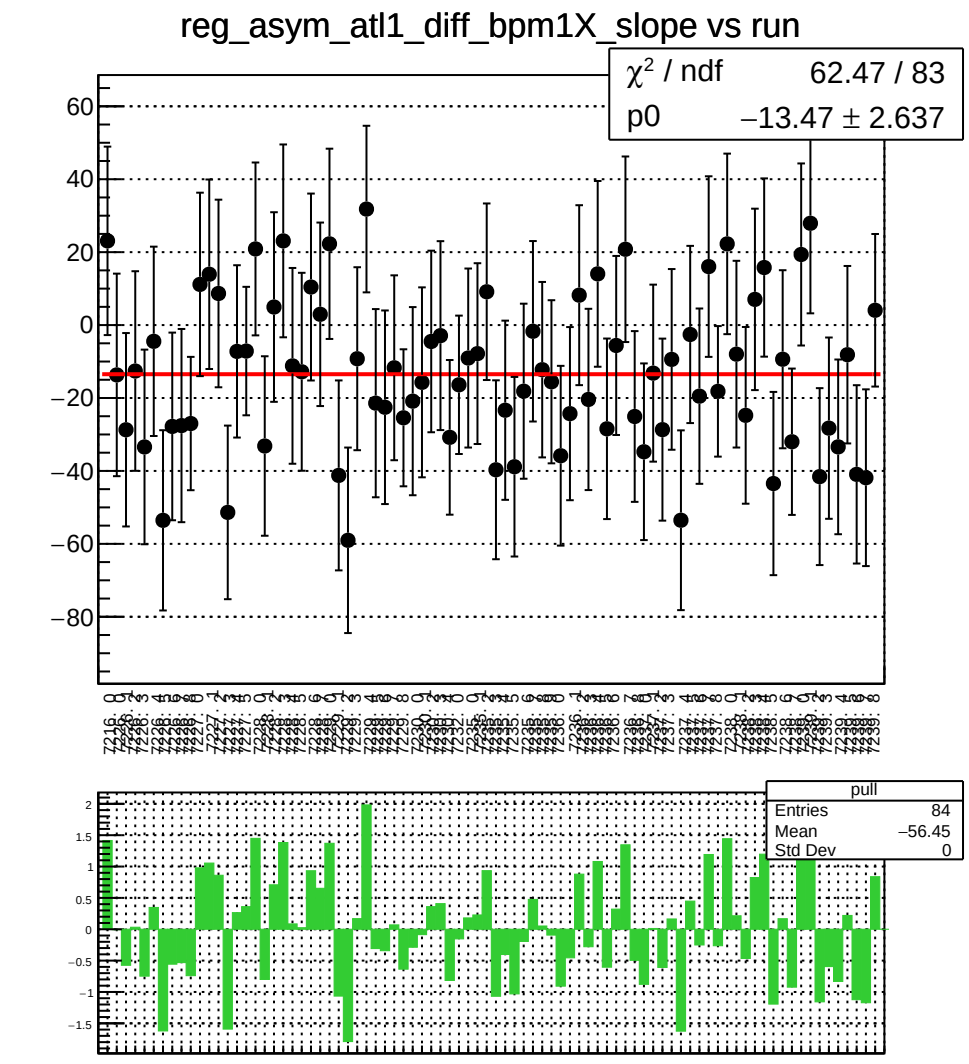

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 25.32 / 83
p0 0.5467 ± 0.3503
pull
Entries 84
Mean −52.85
Std Dev 0
pull1D
Entries 84
Mean 0.04874
Std Dev 0.5468

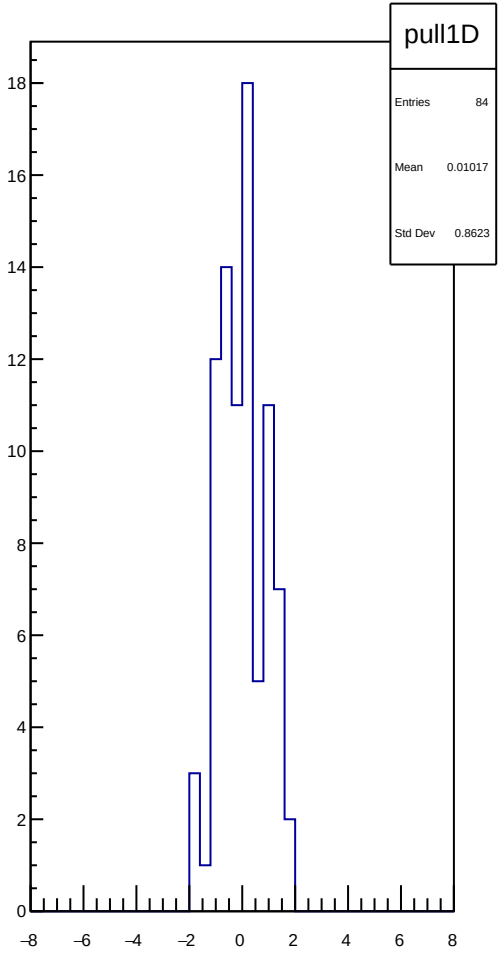

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 117.4 / 83
p0 −39.88 ± 0.4758
pull
Entries 84
Mean 877.1
Std Dev 0

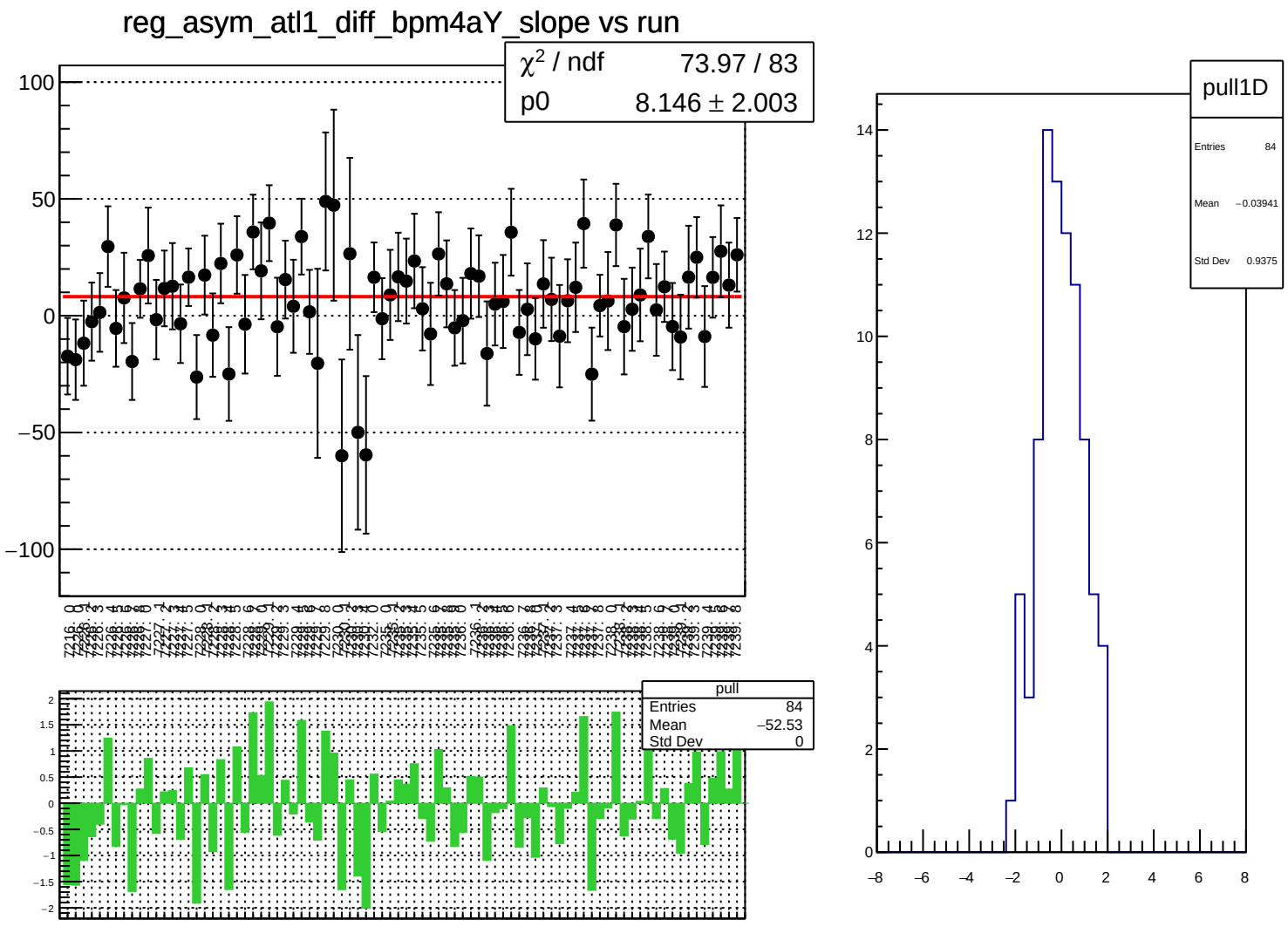

pull1D
Entries 84
Mean −0.01962
Std Dev 1.182

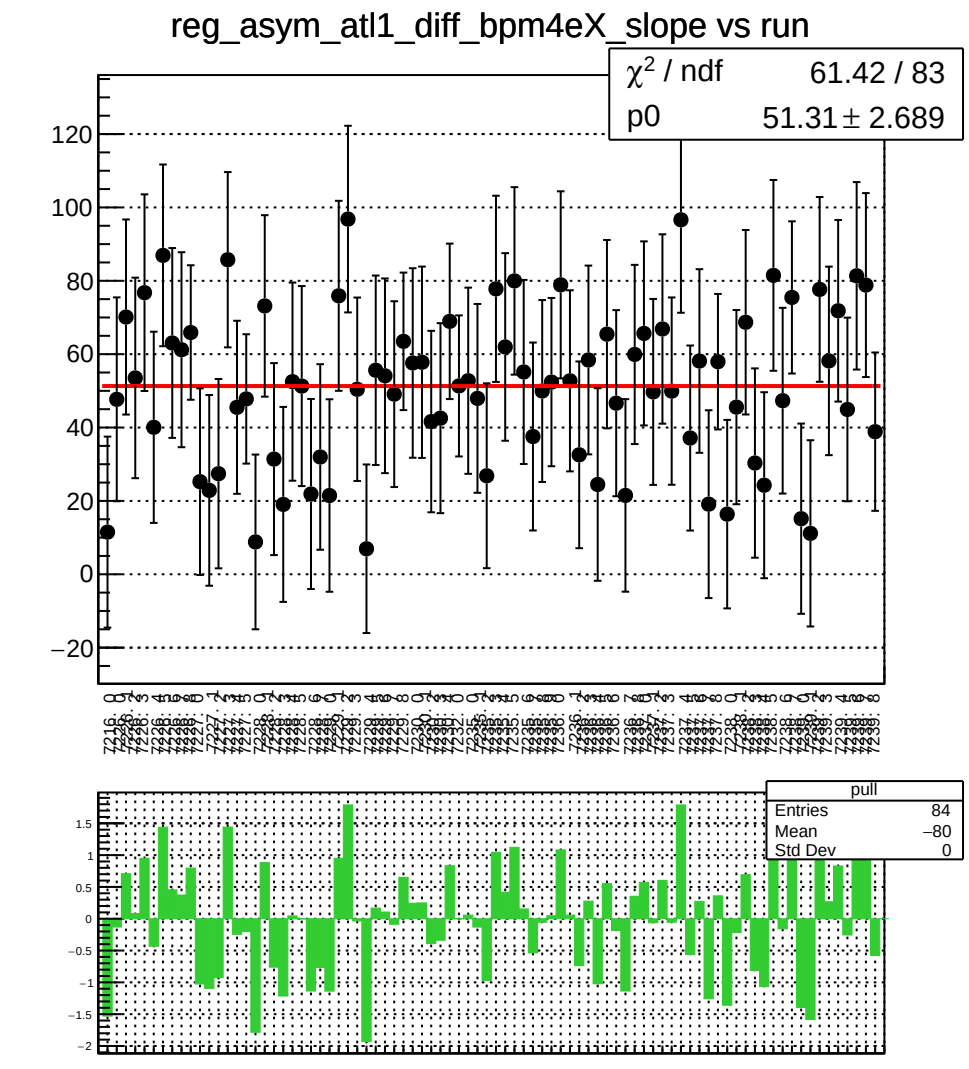

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 22.76 / 83
p0 34.1 ± 0.3844
pull
Entries 84
Mean −186.4
Std Dev 0
pull1D
Entries 84
Mean −0.02654
Std Dev 0.5198

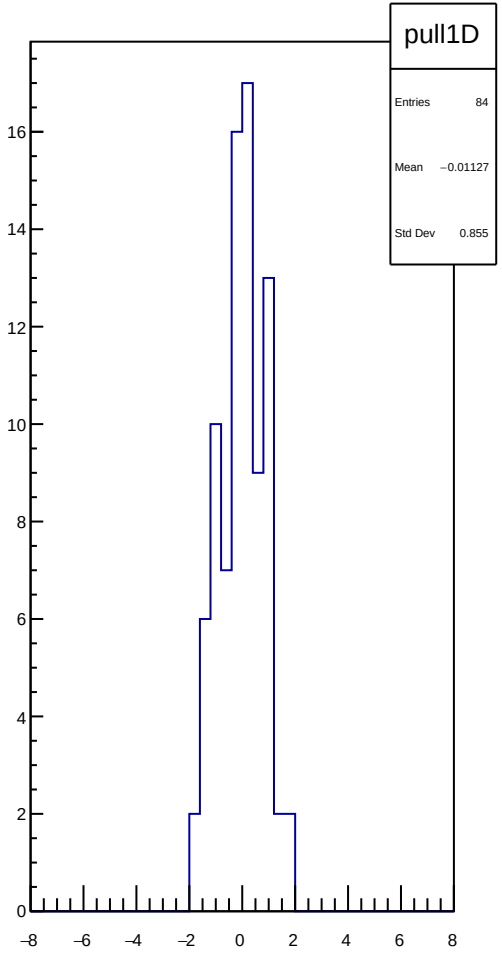

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 2.869 / 83
p0 0.1208 ± 0.01637
pull
Entries 84
Mean 986
Std Dev 0
pull1D
Entries 84
Mean −0.001631
Std Dev 0.1848

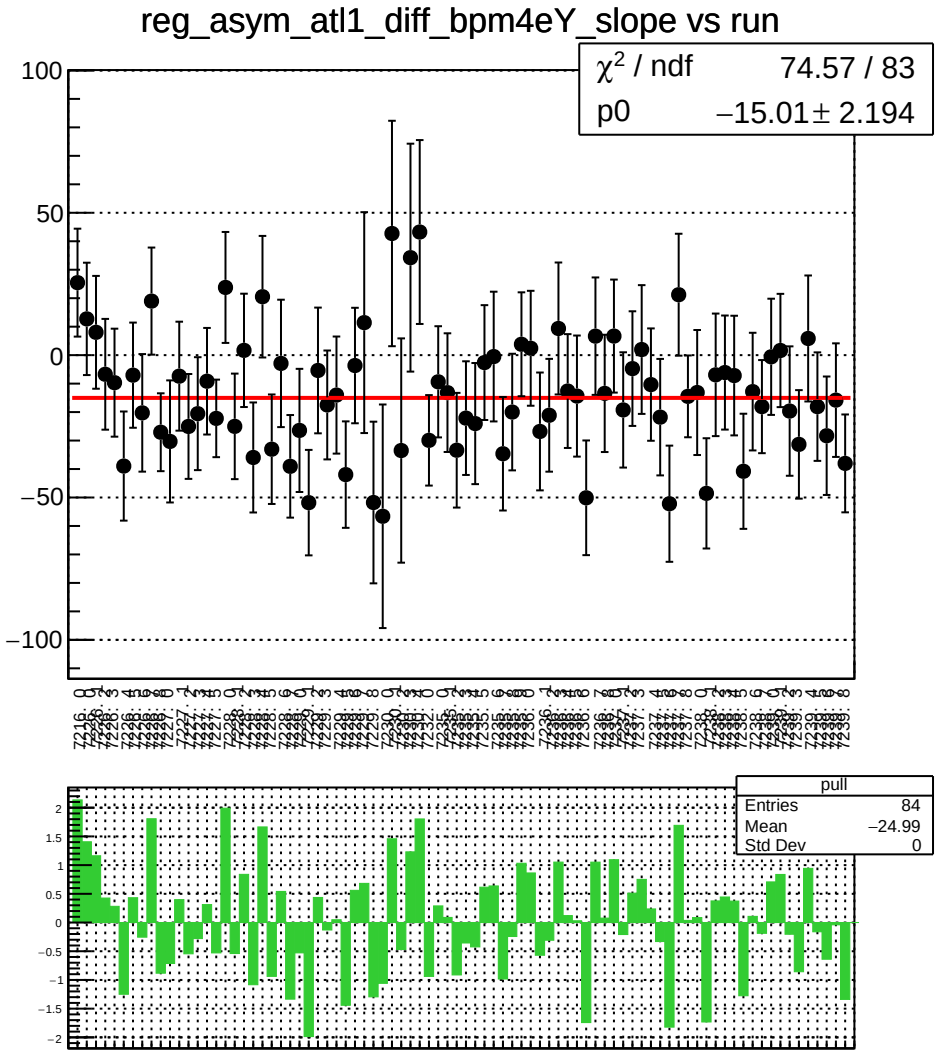

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 62.47 / 83
p0 −13.47 ± 2.637
pull
Entries 84
Mean −56.45
Std Dev 0

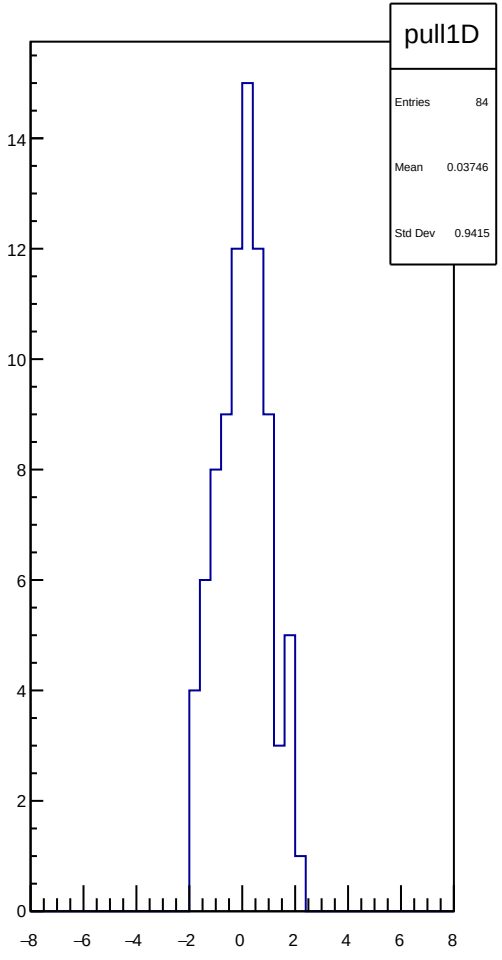

pull1D
Entries 84
Mean 0.01017
Std Dev 0.8623

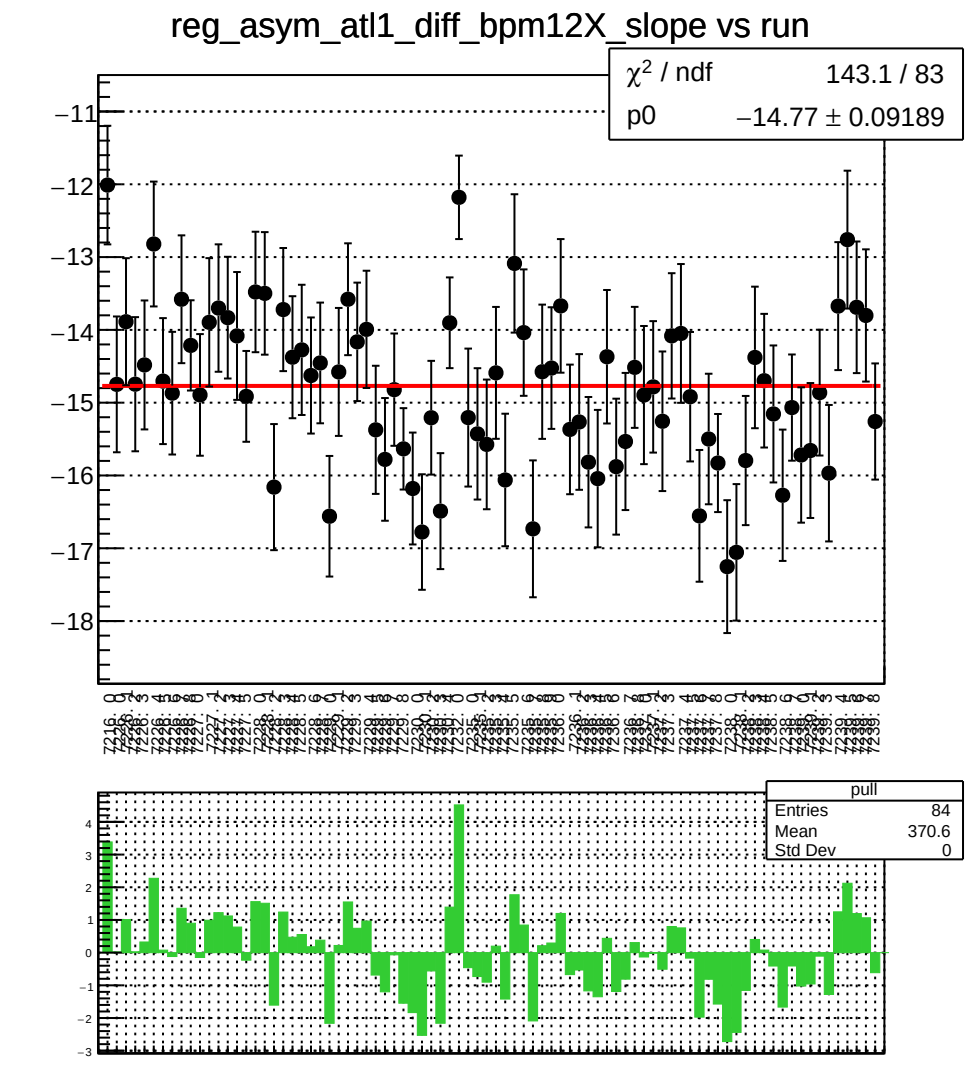

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 73.97 / 83
p0 8.146 ± 2.003
pull
Entries 84
Mean −52.53
Std Dev 0
pull1D
Entries 84
Mean −0.03941
Std Dev 0.9375

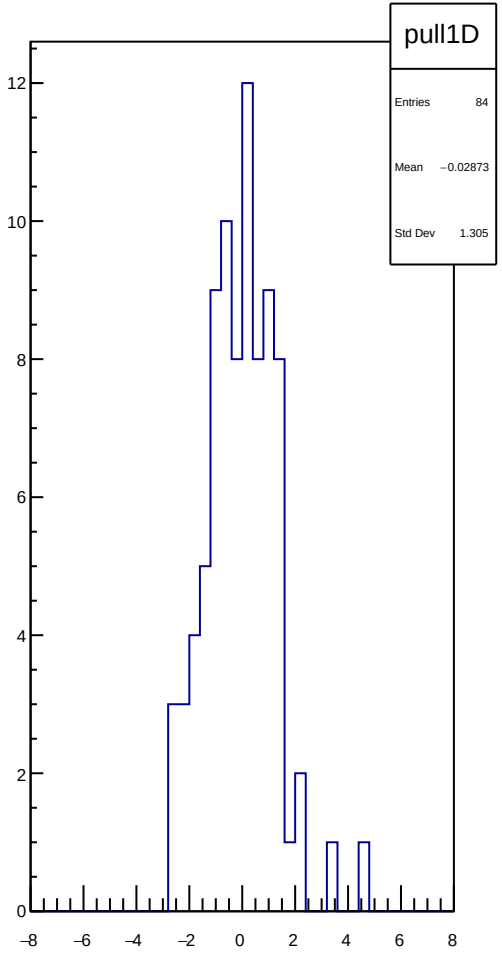

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 61.42 / 83
p0 51.31 ± 2.689
pull
Entries 84
Mean −80
Std Dev 0

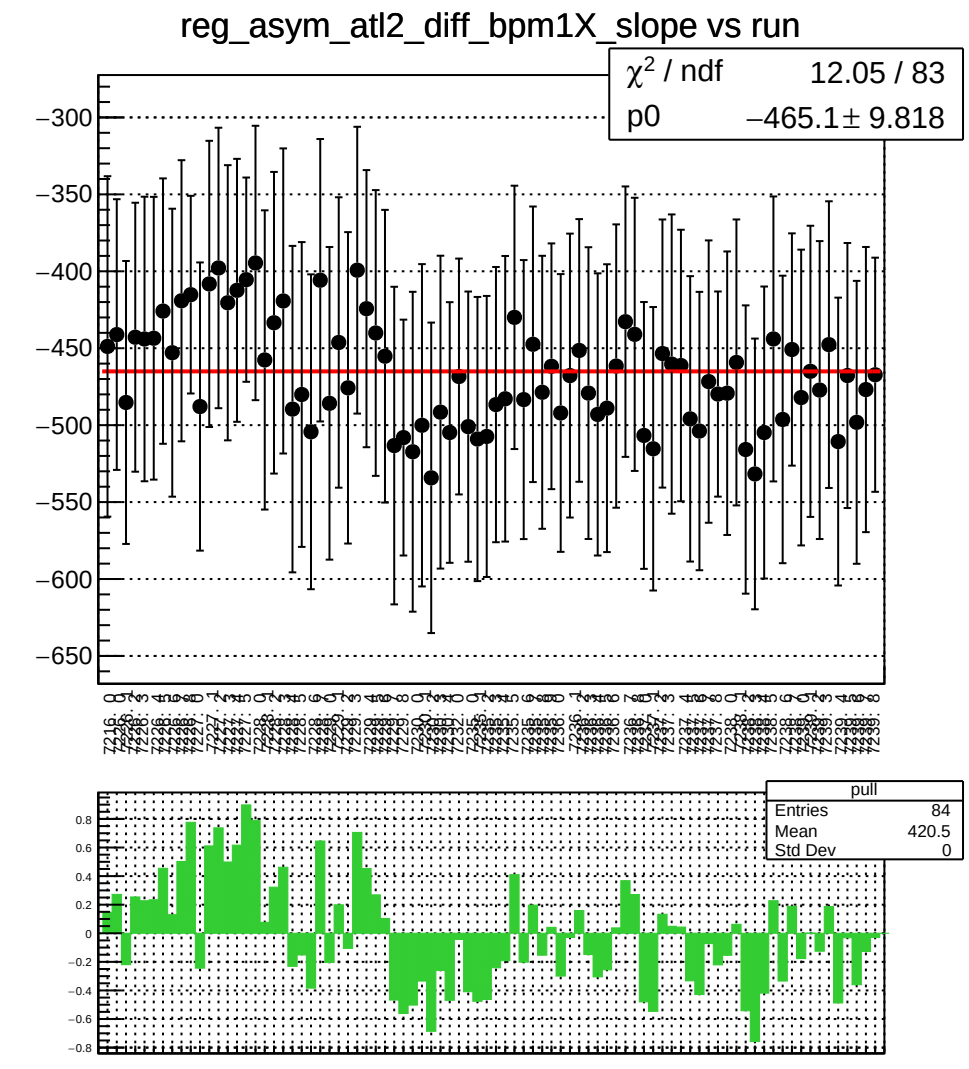

pull1D
Entries 84
Mean −0.01127
Std Dev 0.855

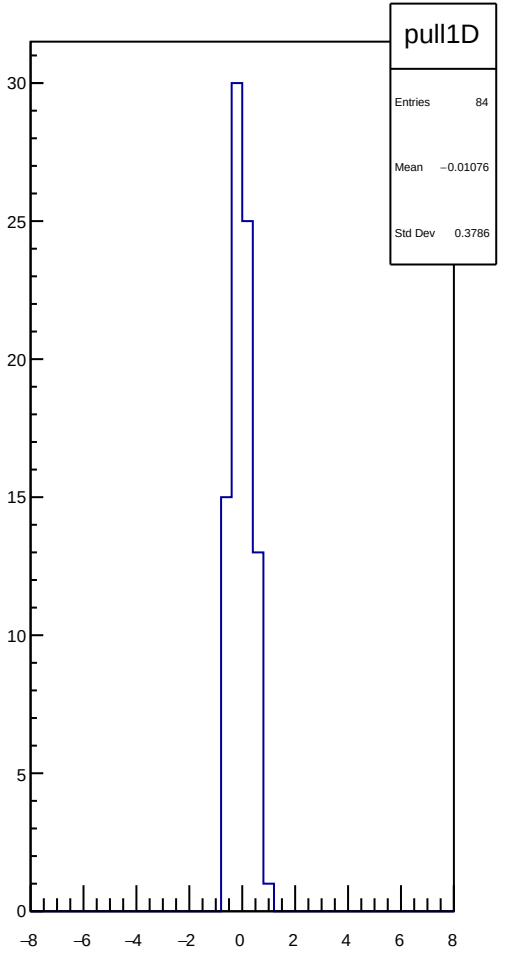

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 74.57 / 83
p0 −15.01 ± 2.194
pull
Entries 84
Mean −24.99
Std Dev 0

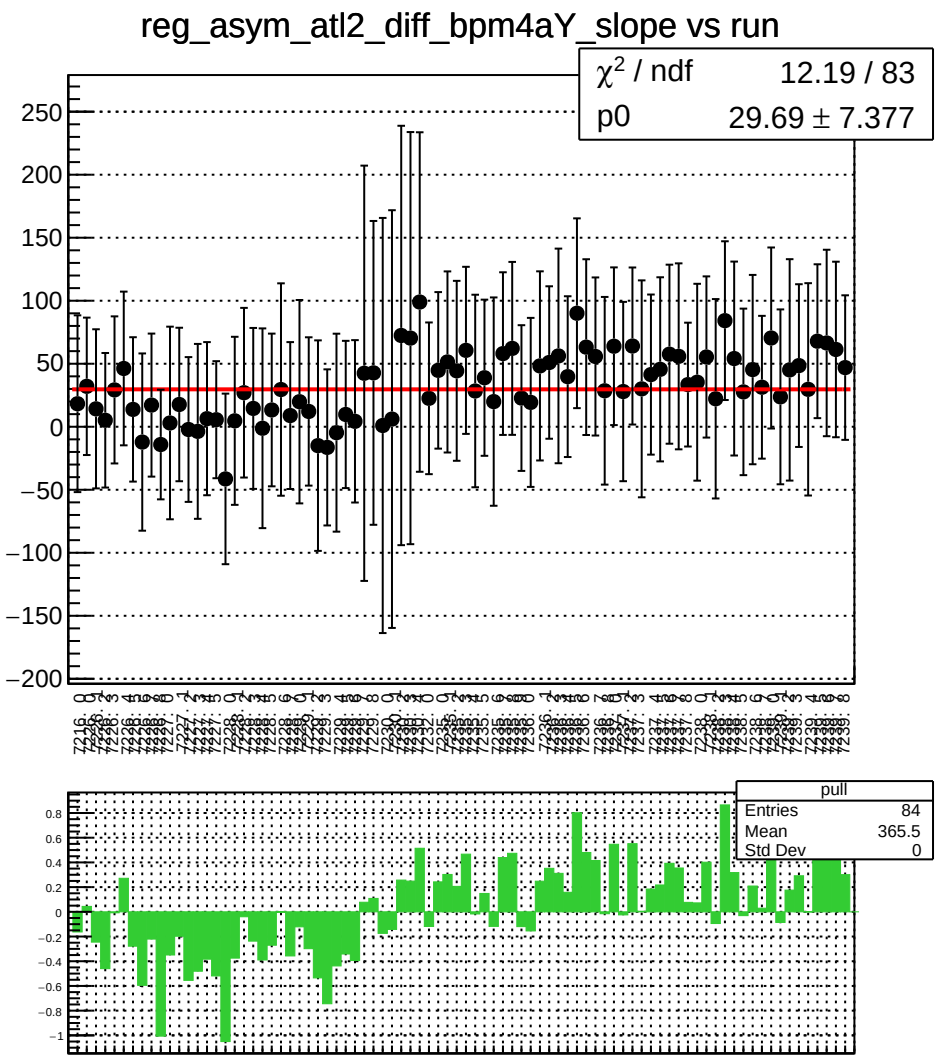

pull1D
Entries 84
Mean 0.03746
Std Dev 0.9415

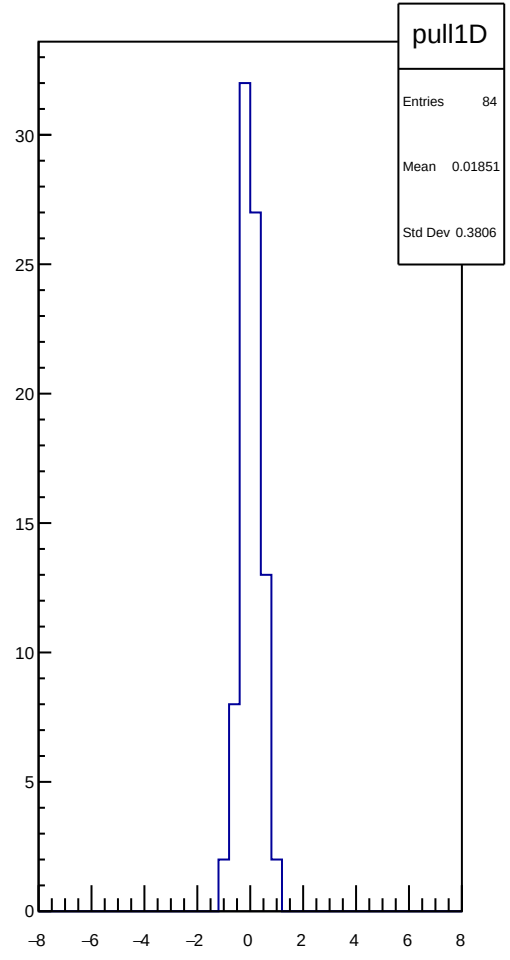

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 143.1 / 83
p0 −14.77 ± 0.09189
pull
Entries 84
Mean 370.6
Std Dev 0

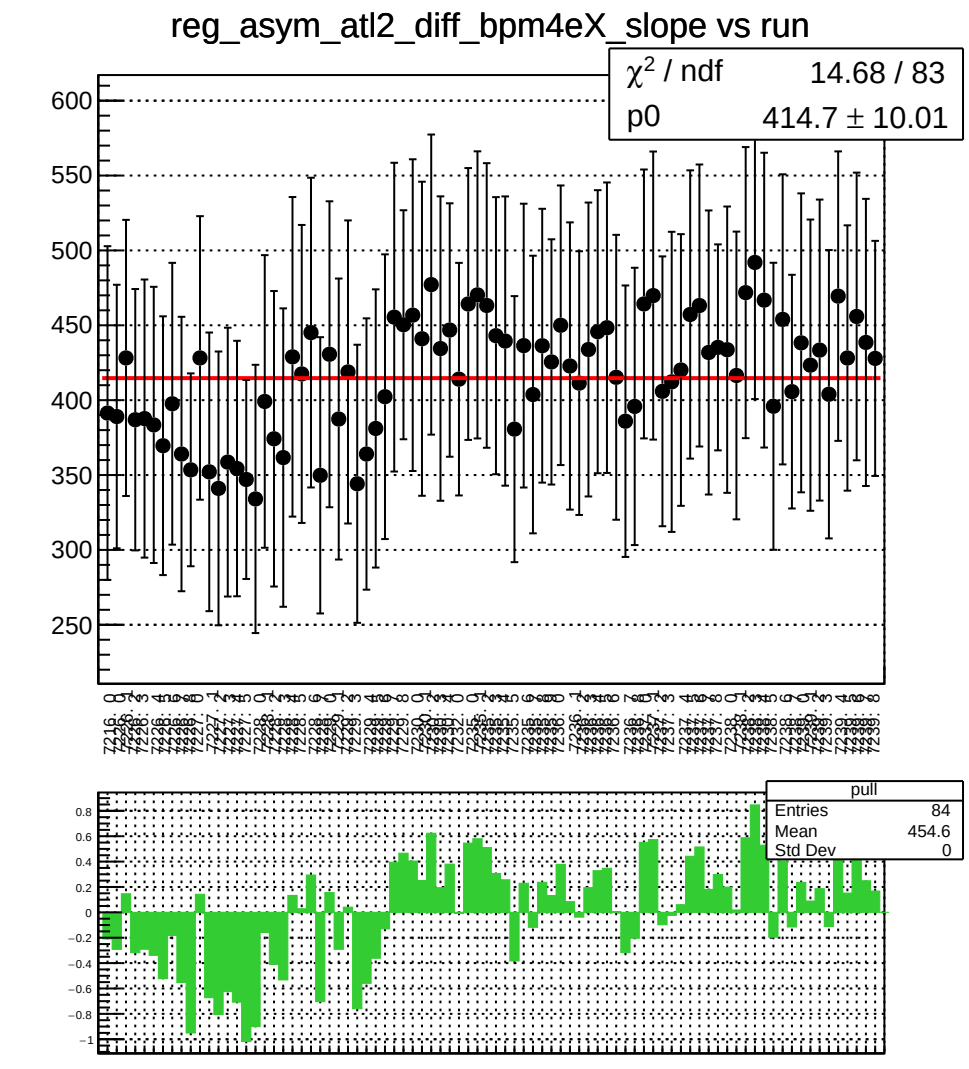

pull1D
Entries 84
Mean −0.02873
Std Dev 1.305

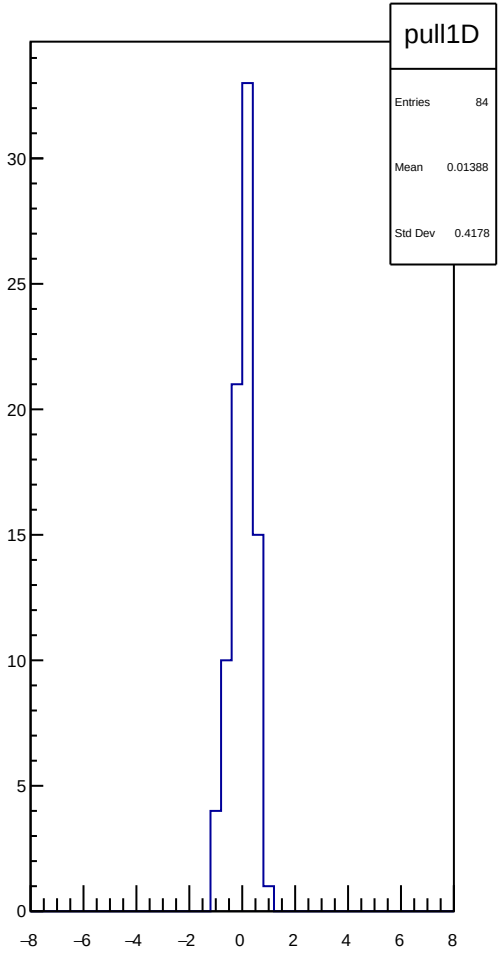

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 12.05 / 83
p0 −465.1 ± 9.818
−300
−350
−400
−450
−500
−550
−600
−650
pull
Entries 84
Mean 420.5
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

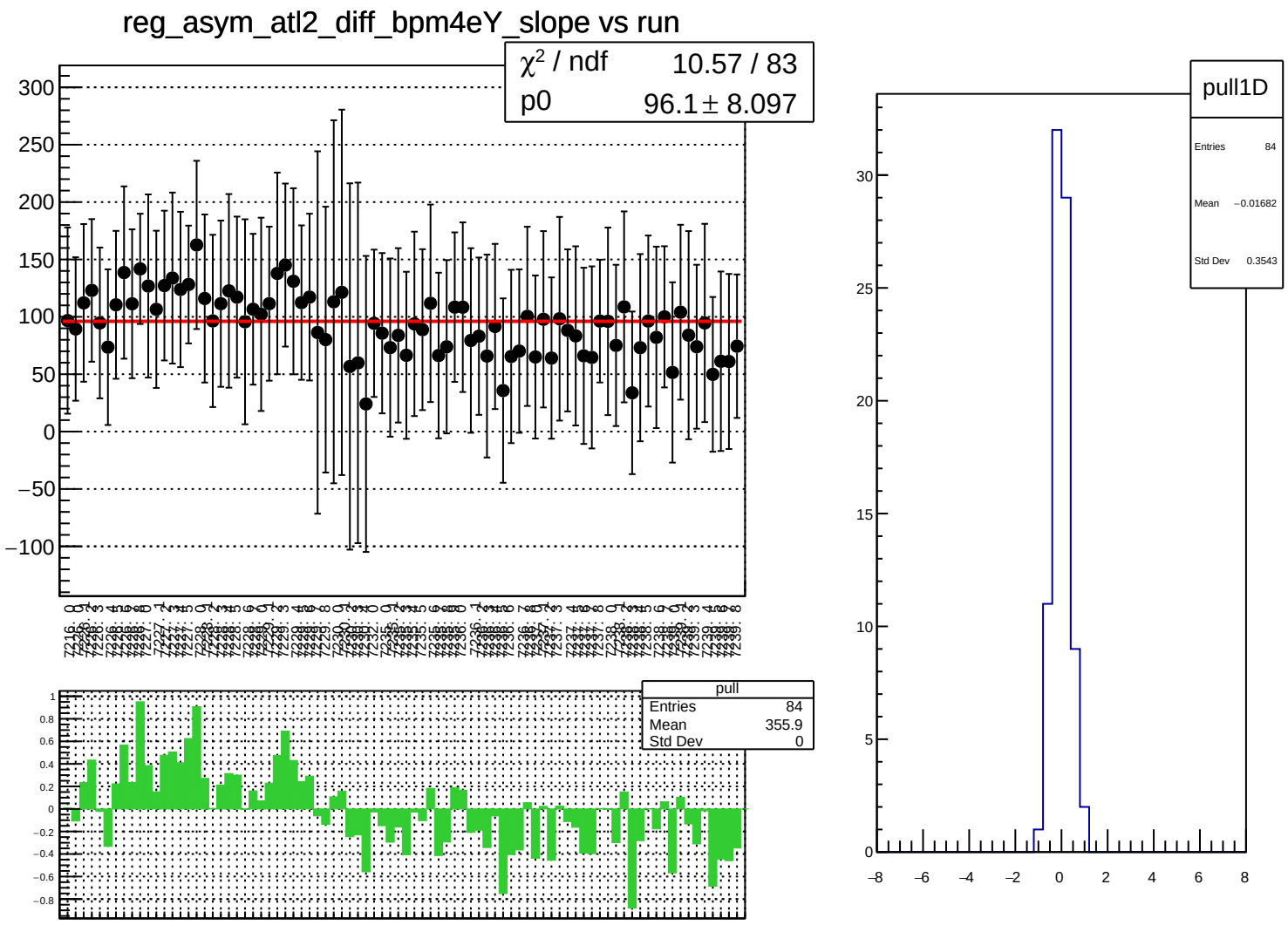

pull1D
Entries 84
Mean −0.01076
Std Dev 0.3786
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

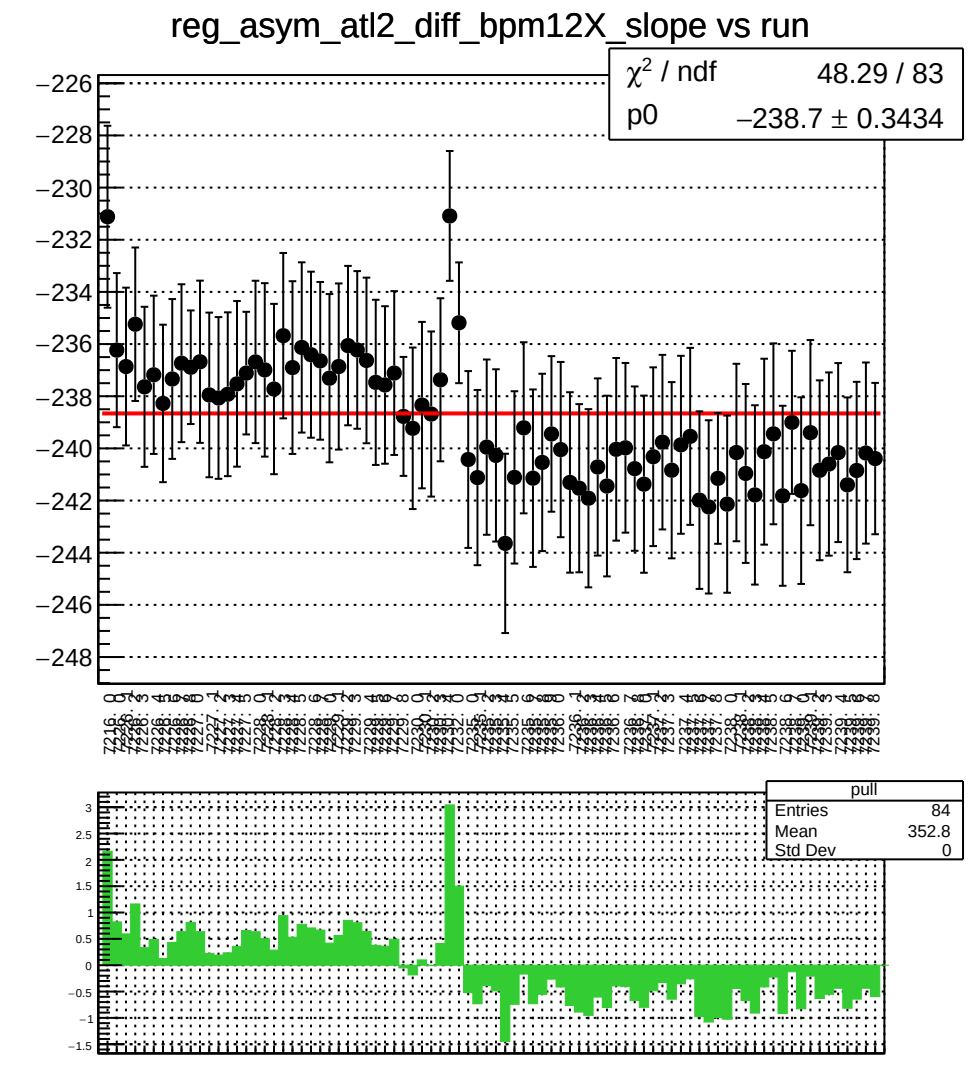

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 12.19 / 83
p0 29.69 ± 7.377
pull
Entries 84
Mean 365.5
Std Dev 0

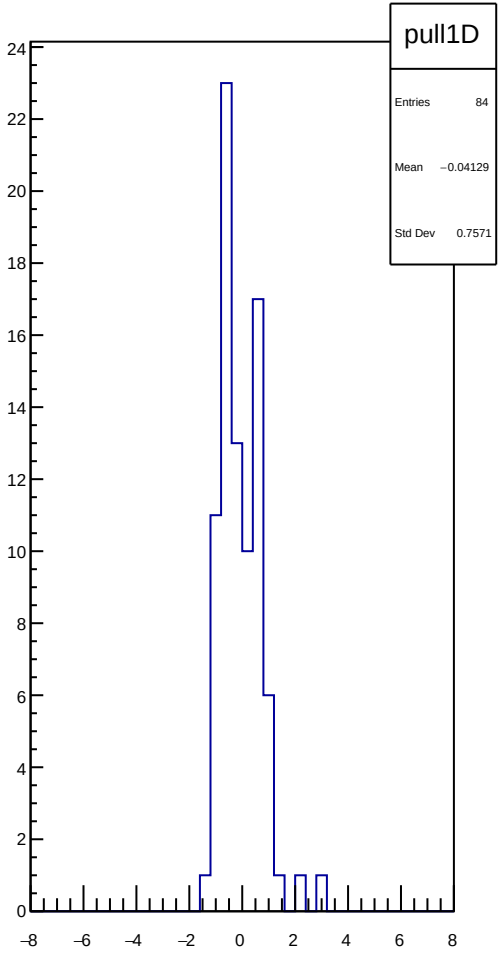

pull1D
Entries 84
Mean 0.01851
Std Dev 0.3806

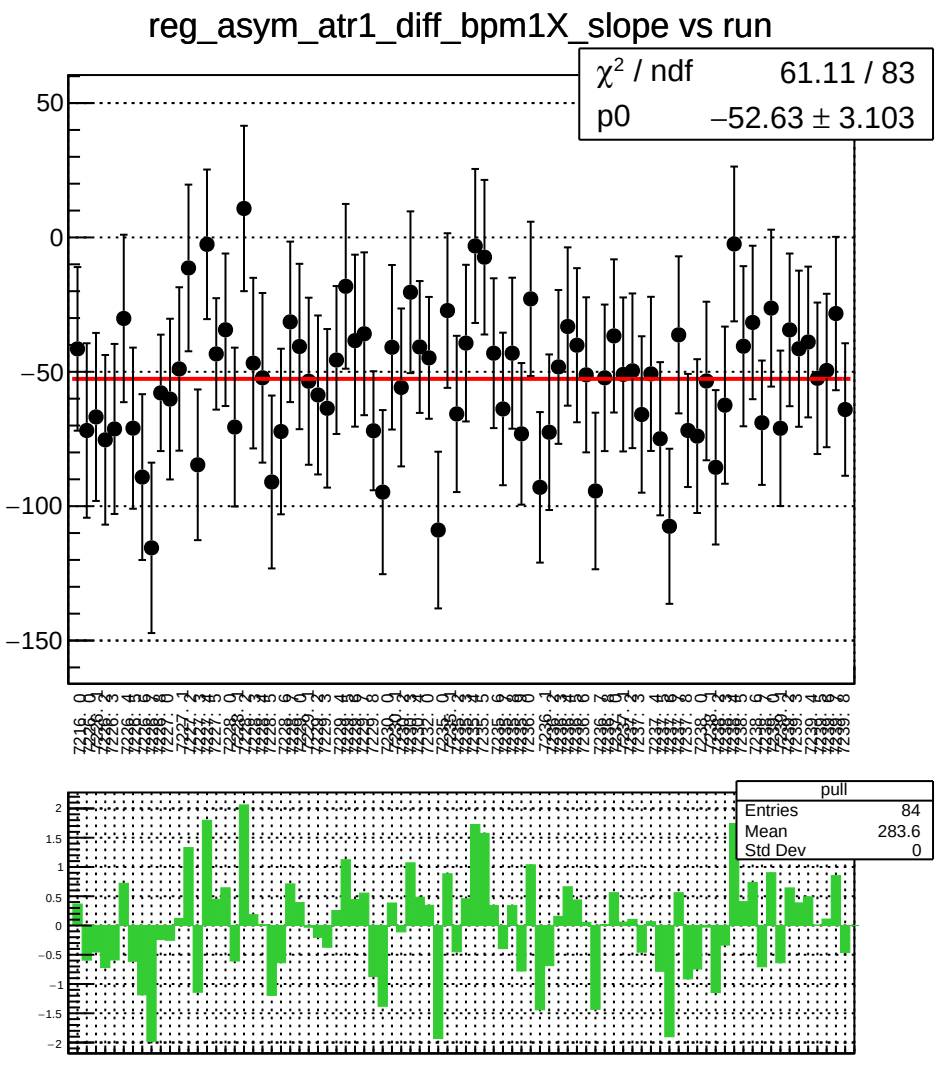

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 14.68 / 83
p0 414.7 ± 10.01
pull
Entries 84
Mean 454.6
Std Dev 0

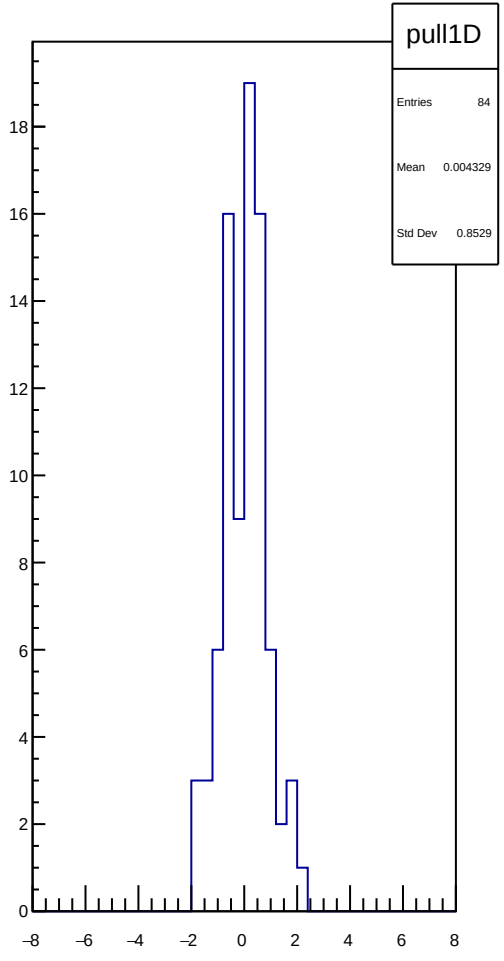

pull1D
Entries 84
Mean 0.01388
Std Dev 0.4178

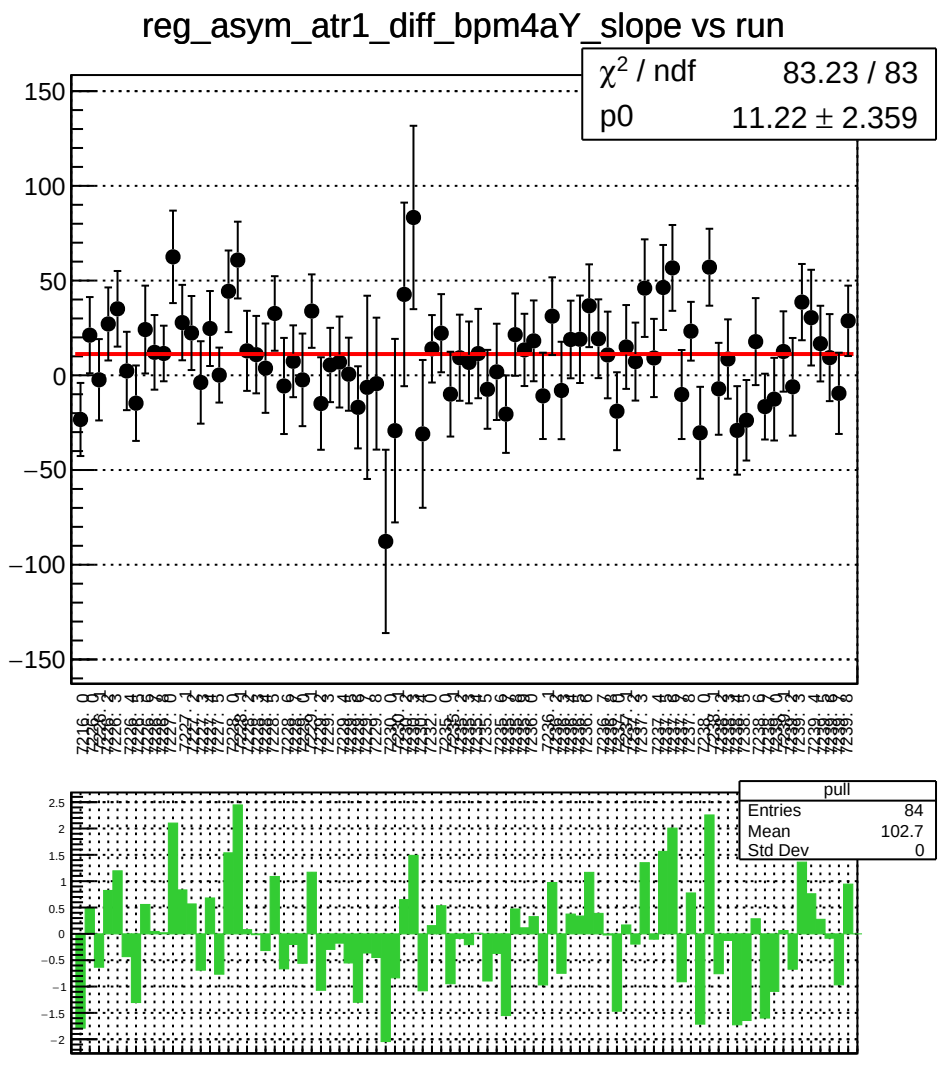

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 10.57 / 83
p0 96.1 ± 8.097
pull
Entries 84
Mean 355.9
Std Dev 0
pull1D
Entries 84
Mean −0.01682
Std Dev 0.3543

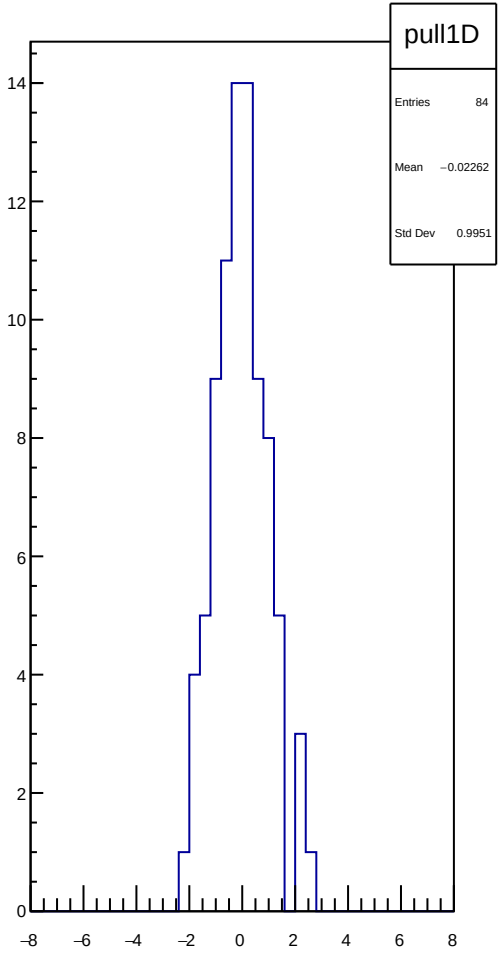

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 48.29 / 83
p0 −238.7 ± 0.3434
pull
Entries 84
Mean 352.8
Std Dev 0

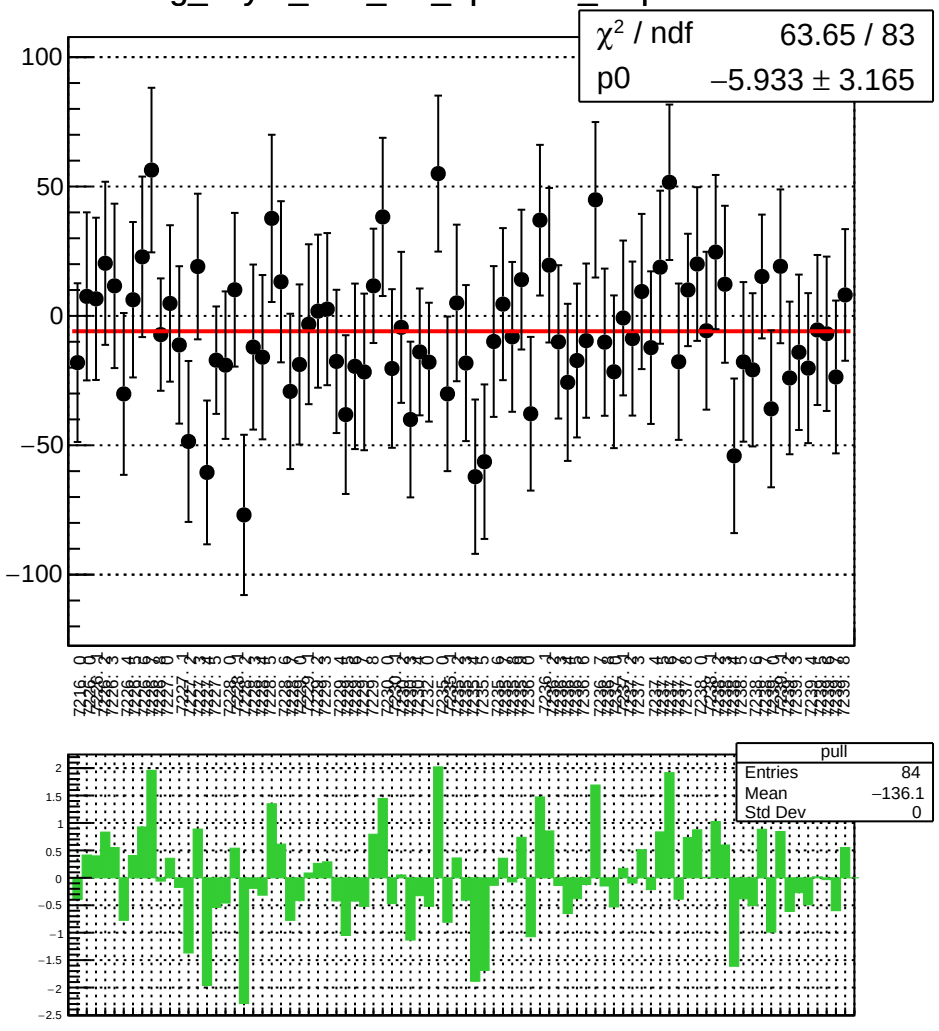

pull1D
Entries 84
Mean −0.04129
Std Dev 0.7571

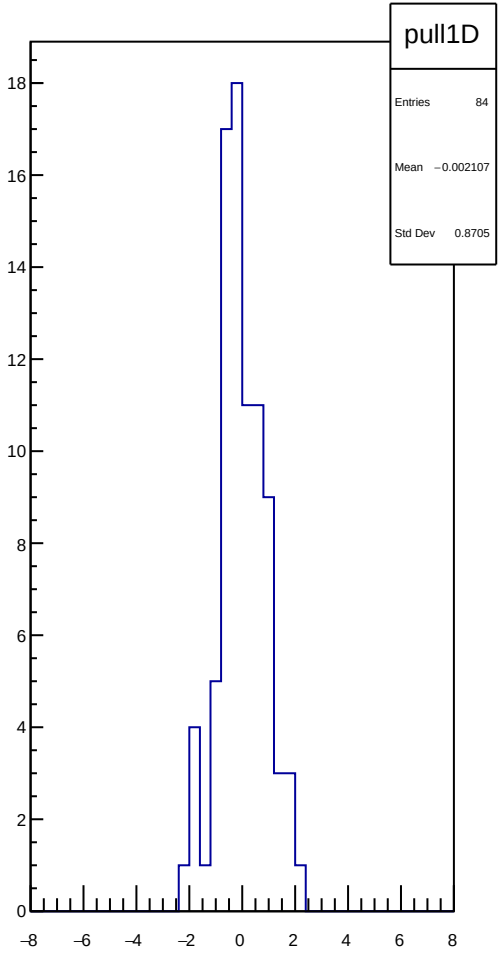

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 61.11 / 83
p0 −52.63 ± 3.103
pull
Entries 84
Mean 283.6
Std Dev 0

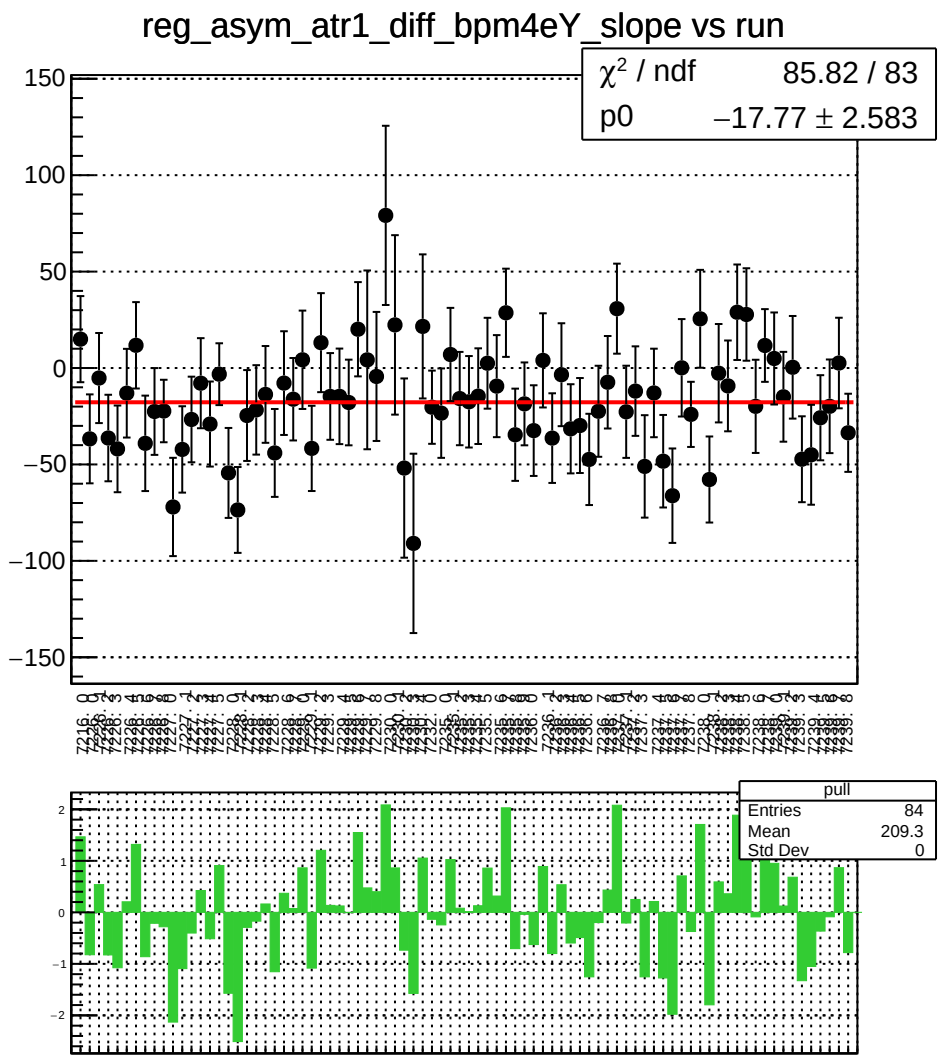

pull1D
Entries 84
Mean 0.004329
Std Dev 0.8529

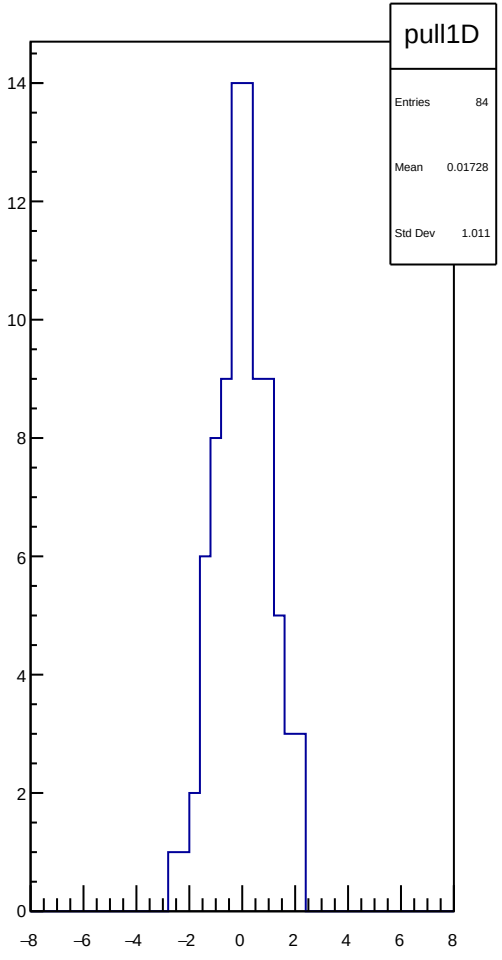

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 83.23 / 83
p0 11.22 ± 2.359
pull
Entries 84
Mean 102.7
Std Dev 0

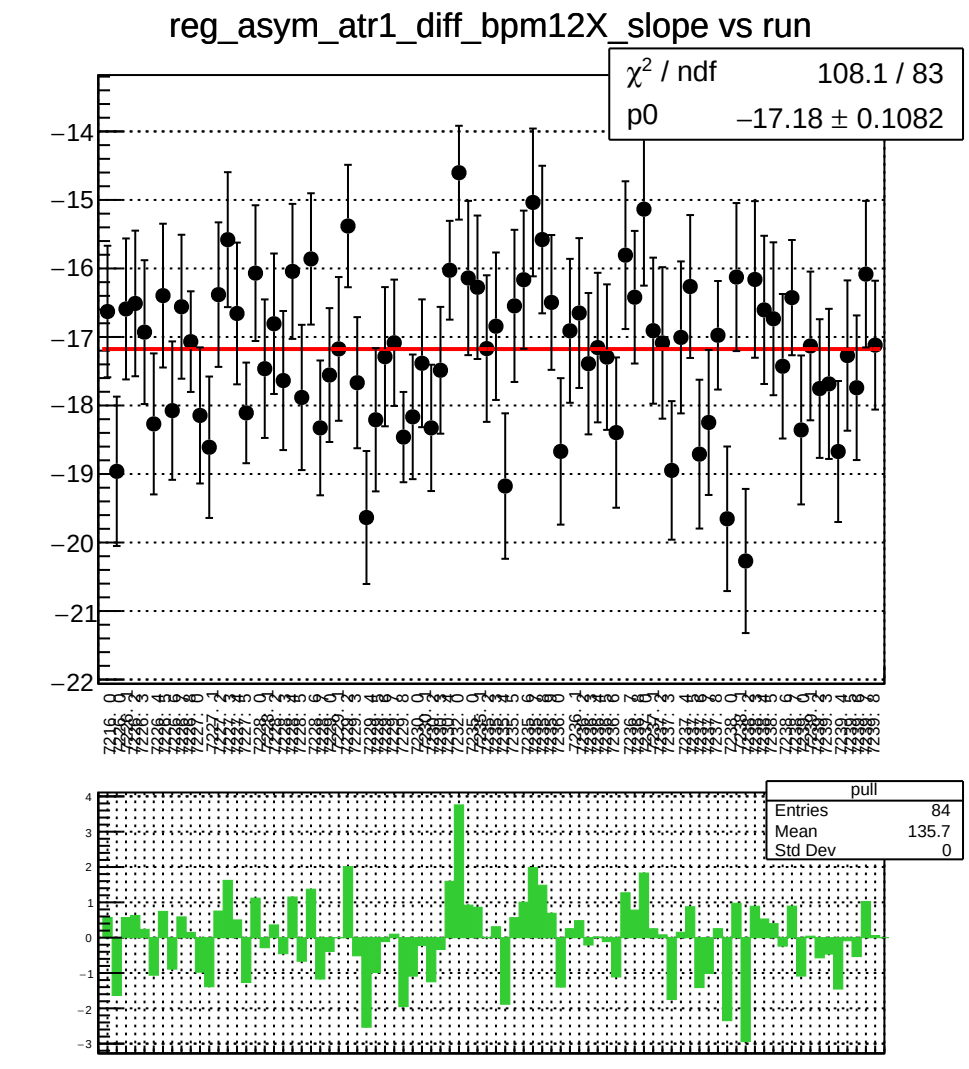

pull1D
Entries 84
Mean −0.02262
Std Dev 0.9951

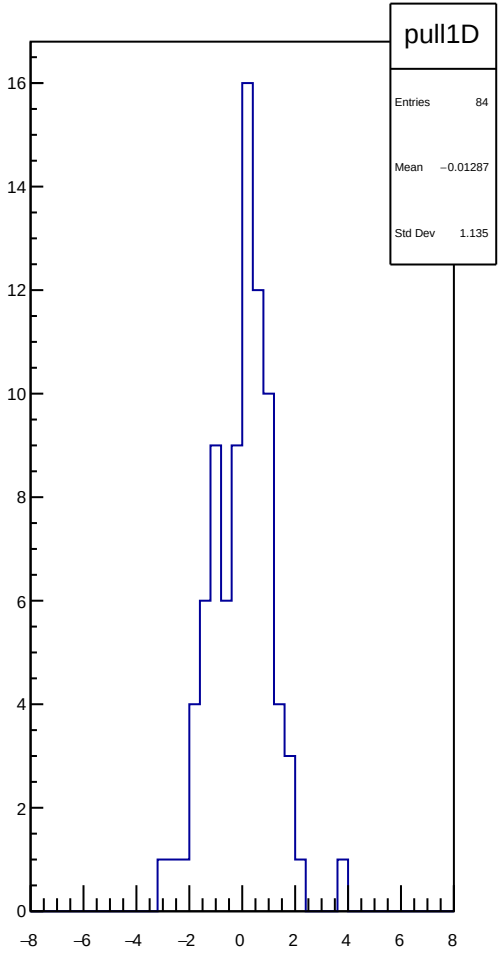

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 63.65 / 83
p0 −5.933 ± 3.165
pull
Entries 84
Mean −136.1
Std Dev 0

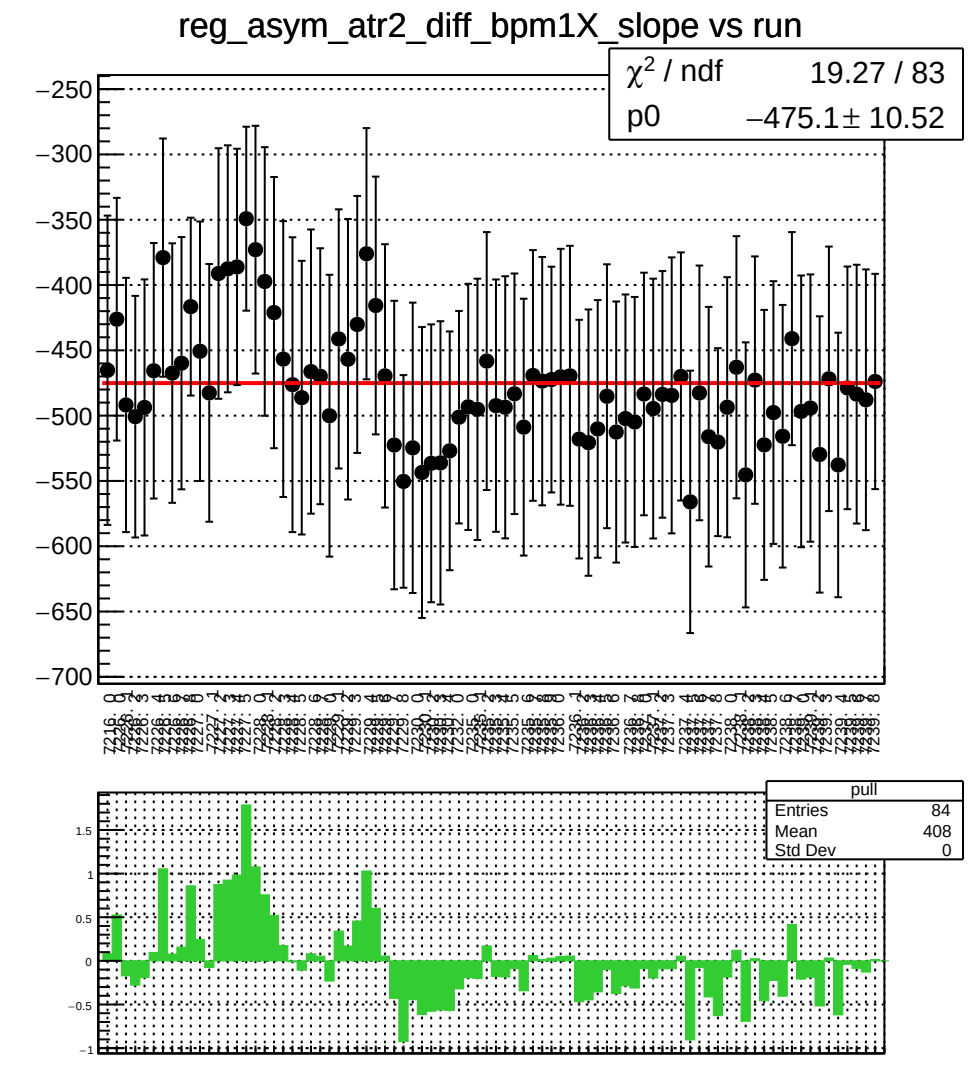

pull1D
Entries 84
Mean −0.002107
Std Dev 0.8705

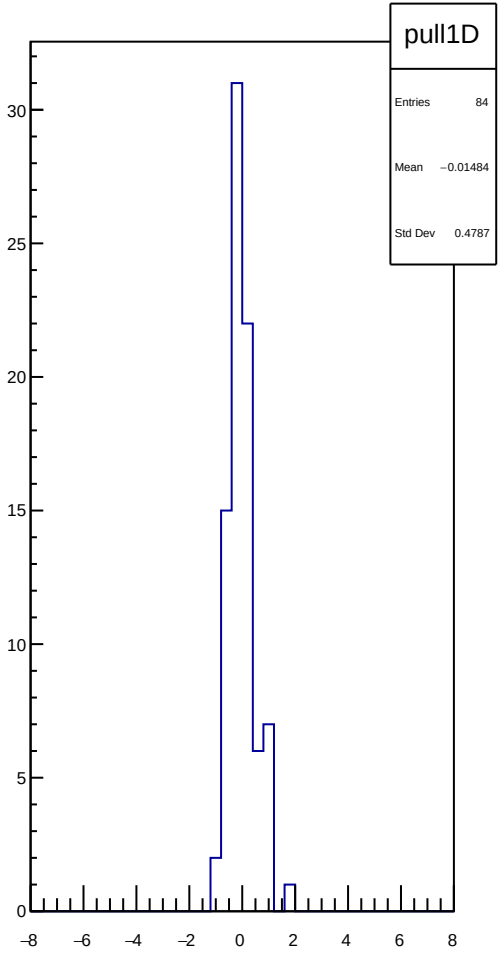

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 85.82 / 83
p0 −17.77 ± 2.583
pull
Entries 84
Mean 209.3
Std Dev 0

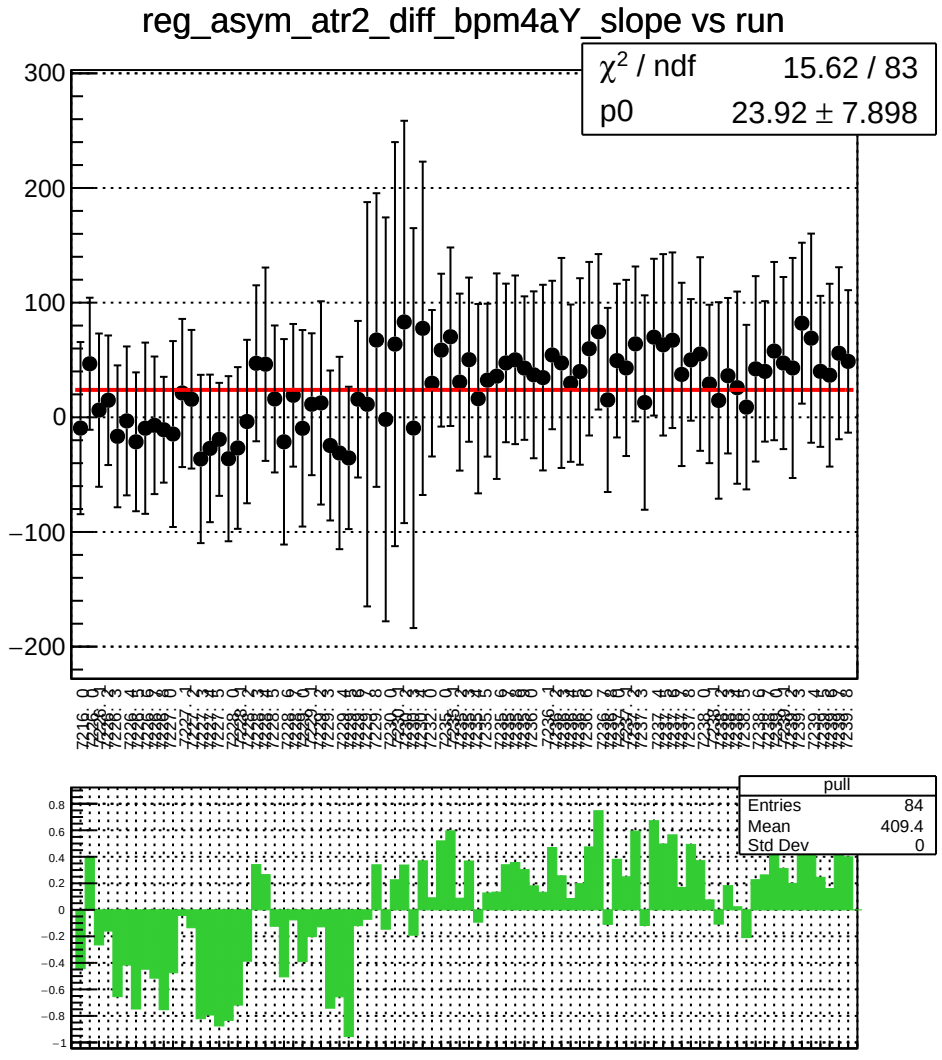

pull1D
Entries 84
Mean 0.01728
Std Dev 1.011

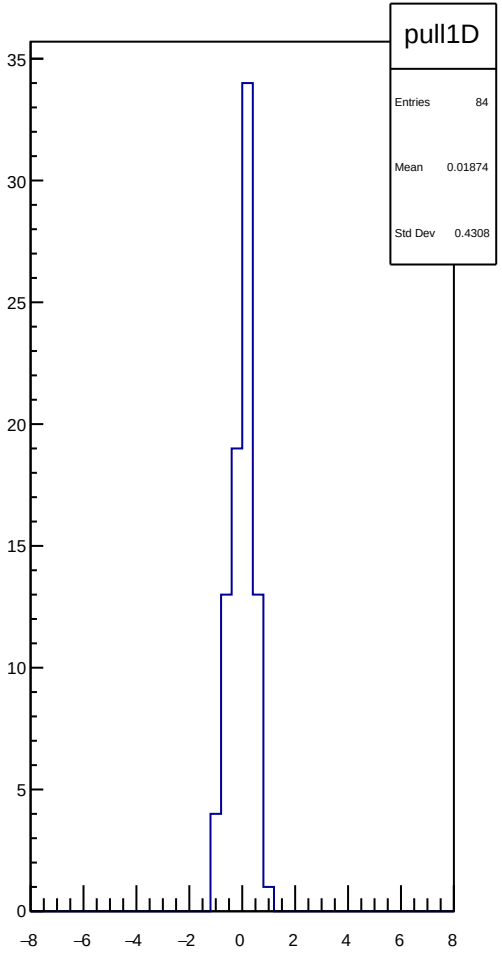

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 108.1 / 83
p0 −17.18 ± 0.1082
pull
Entries 84
Mean 135.7
Std Dev 0

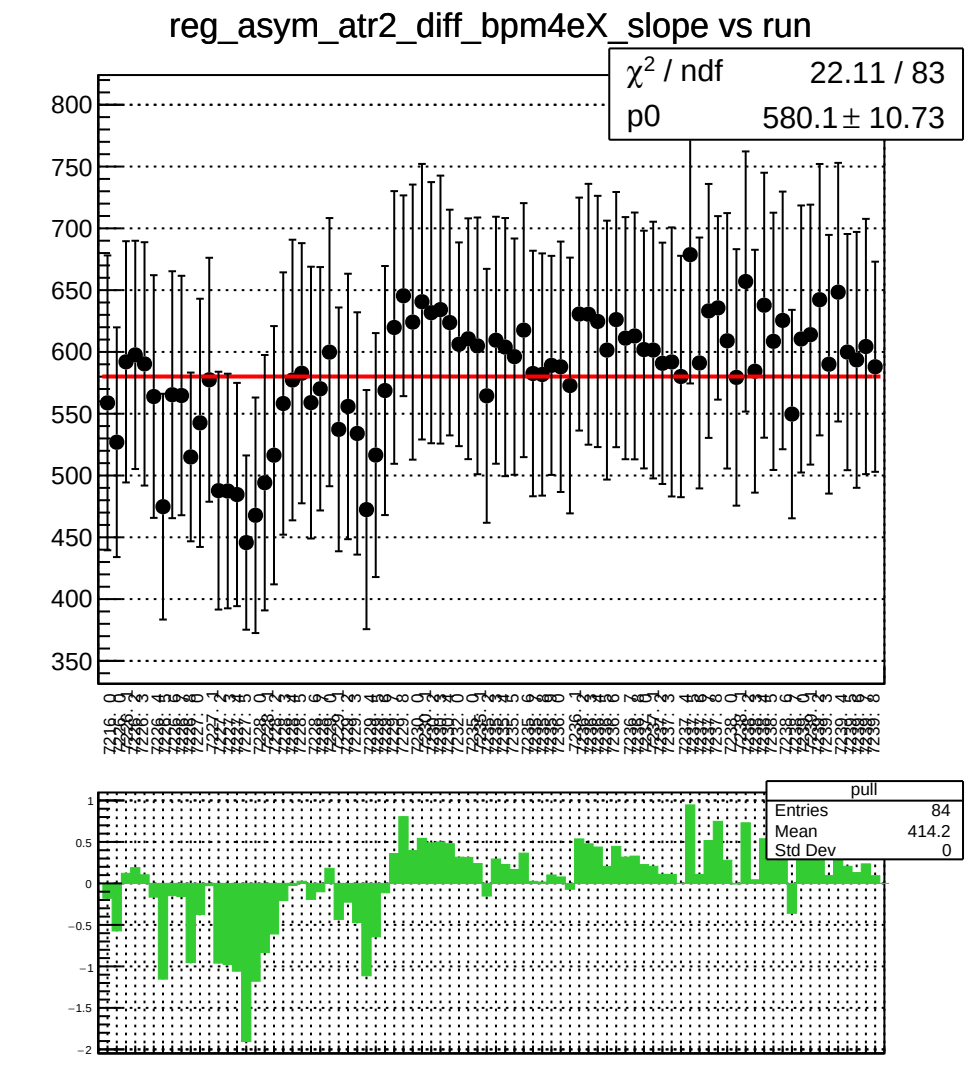

pull1D
Entries 84
Mean −0.01287
Std Dev 1.135

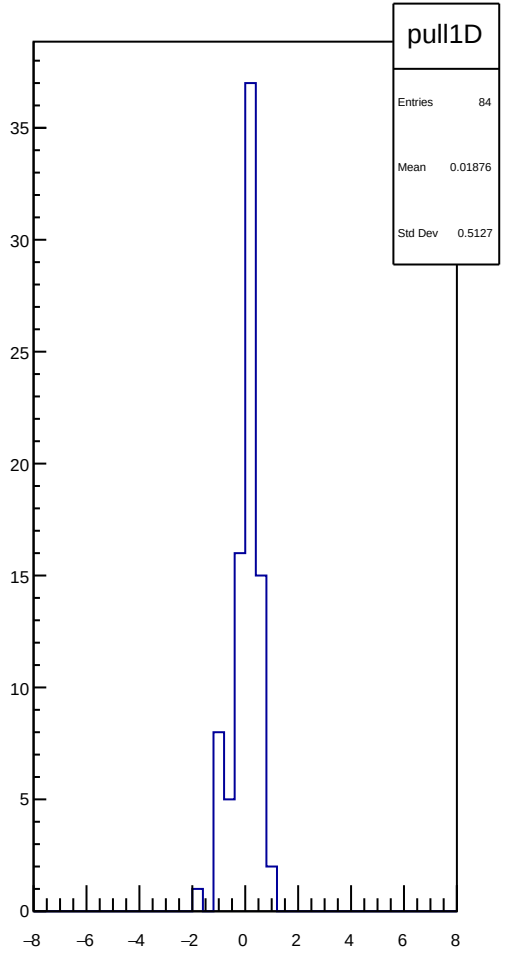

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 19.27 / 83
p0 −475.1± 10.52
pull
Entries 84
Mean 408
Std Dev 0

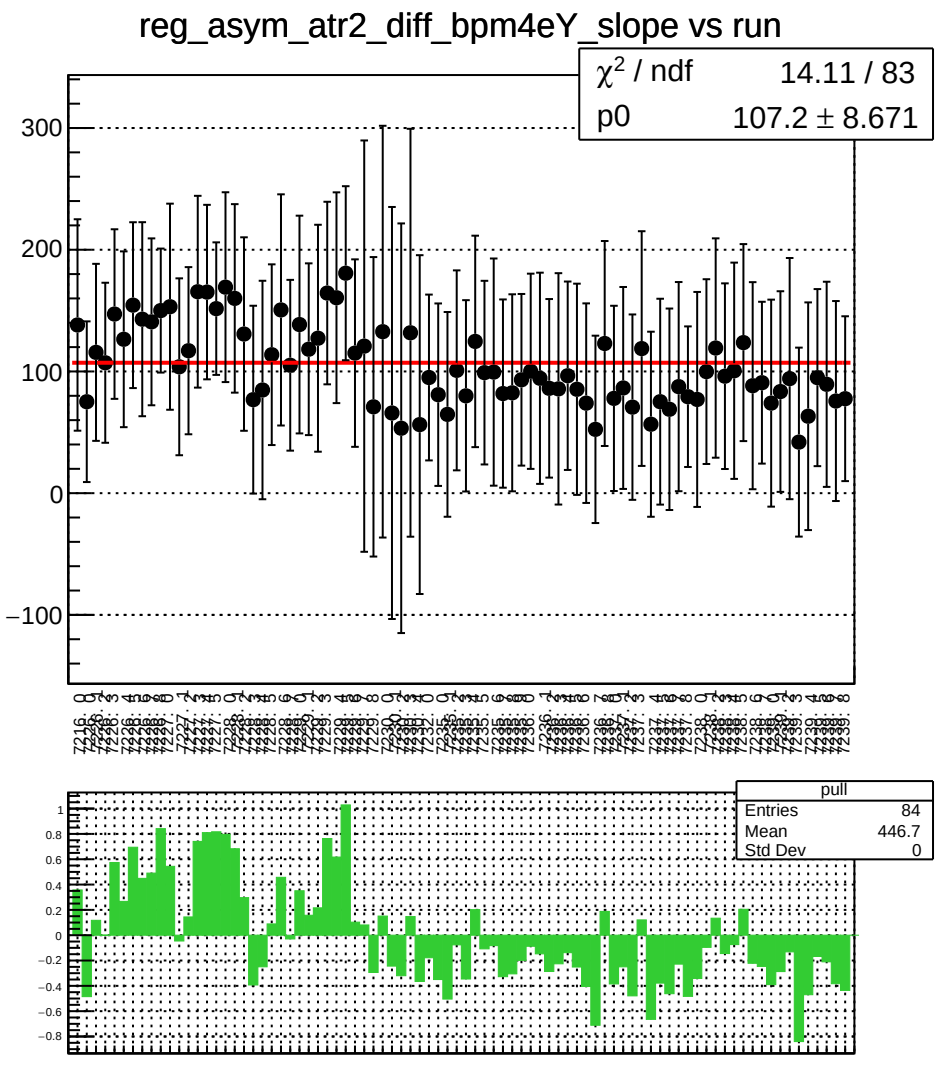

pull1D
Entries 84
Mean −0.01484
Std Dev 0.4787

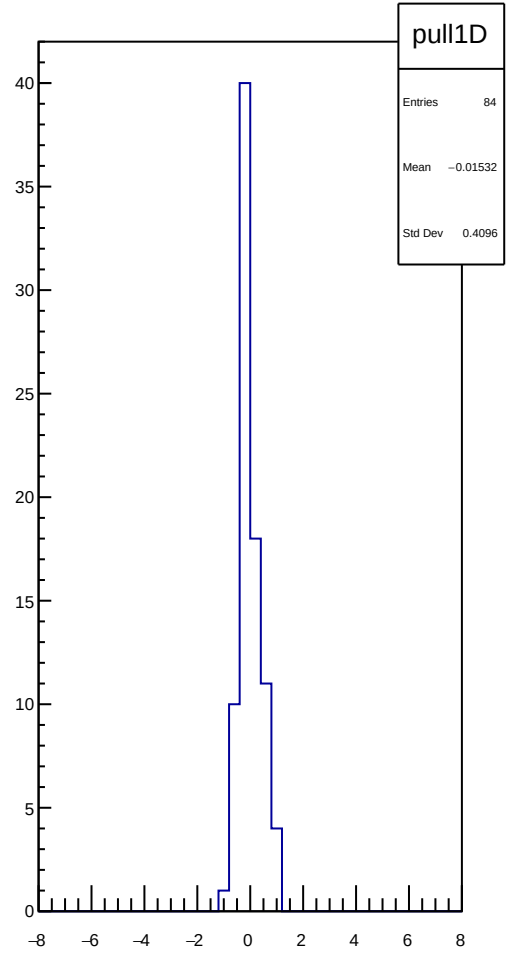

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 15.62 / 83
p0 23.92 ± 7.898
pull
Entries 84
Mean 409.4
Std Dev 0

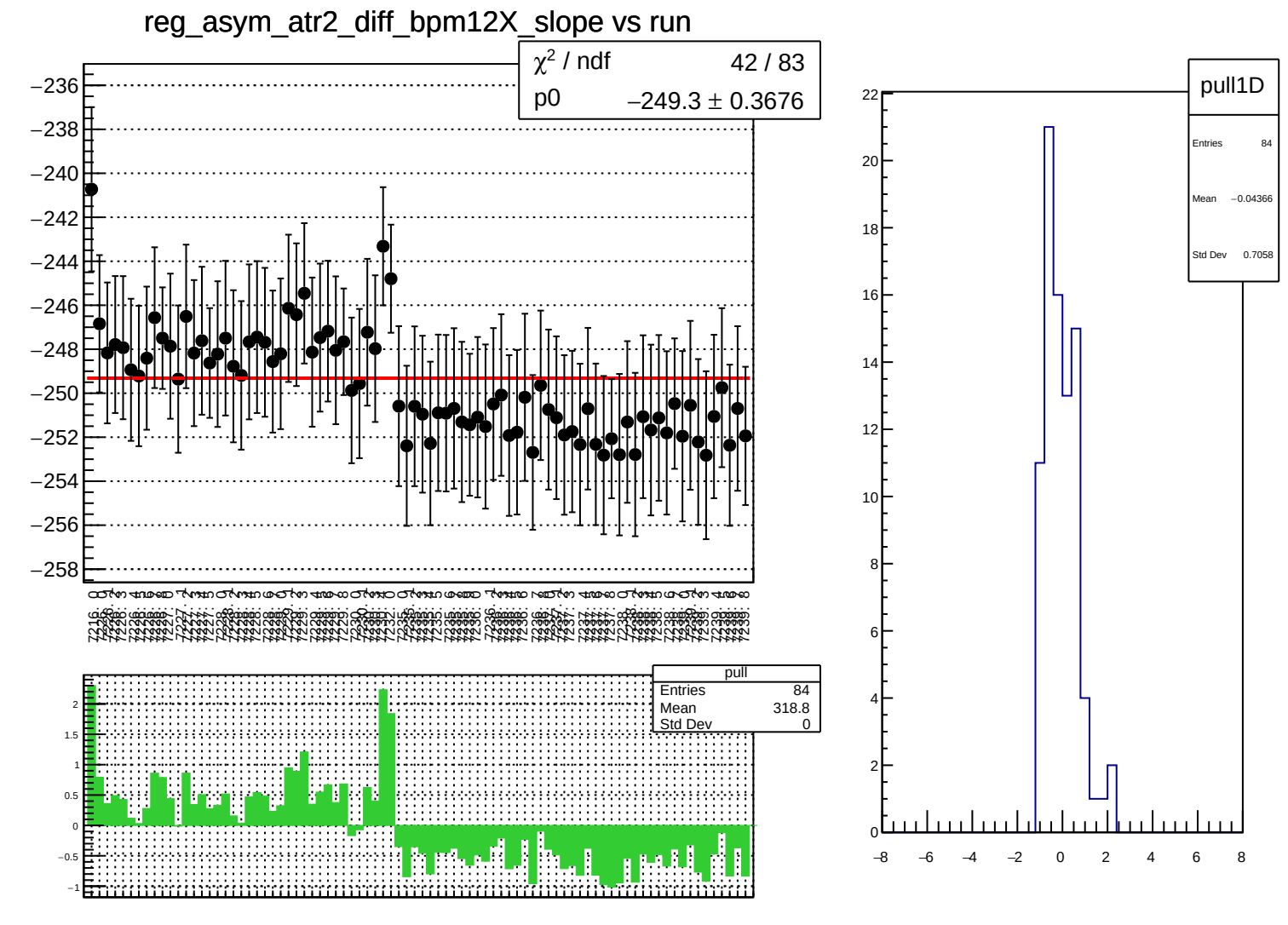

pull1D
Entries 84
Mean 0.01874
Std Dev 0.4308

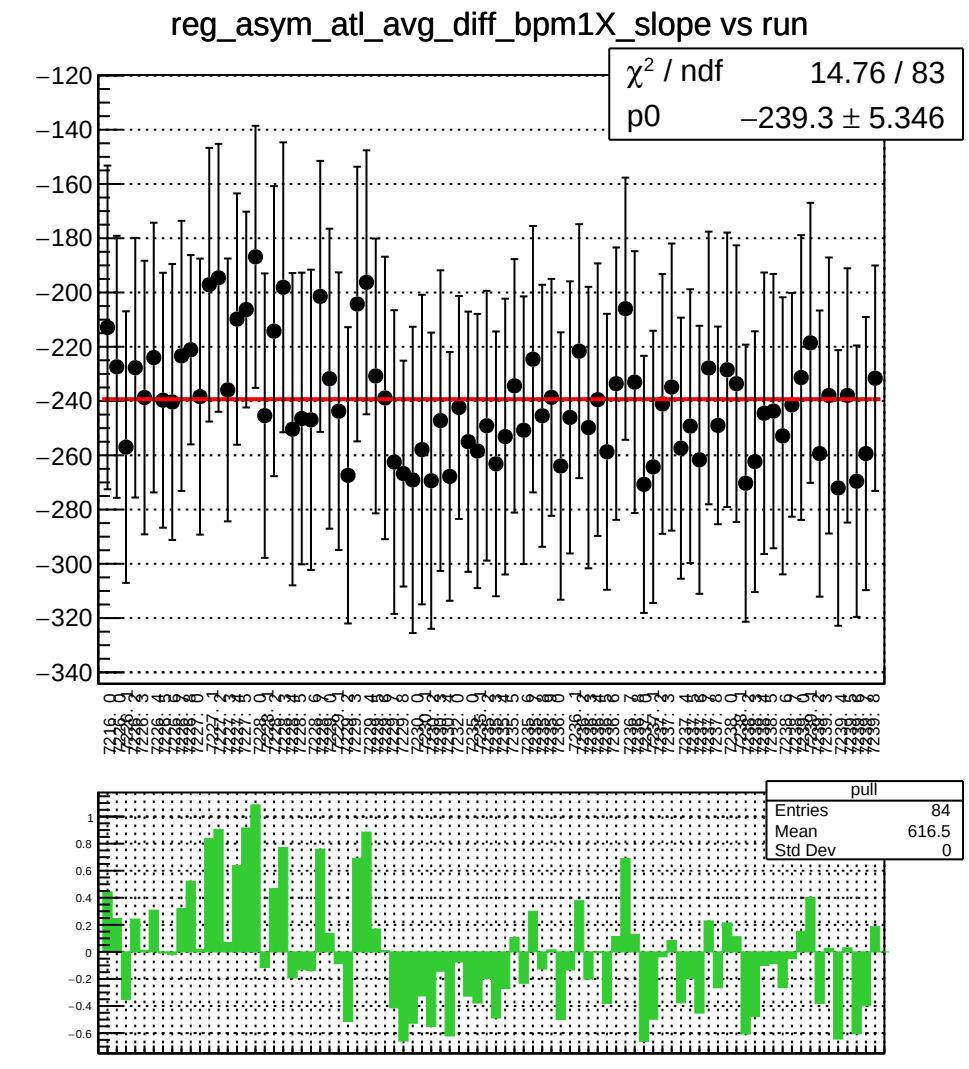

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 22.11 / 83
p0 580.1 ± 10.73
pull
Entries 84
Mean 414.2
Std Dev 0

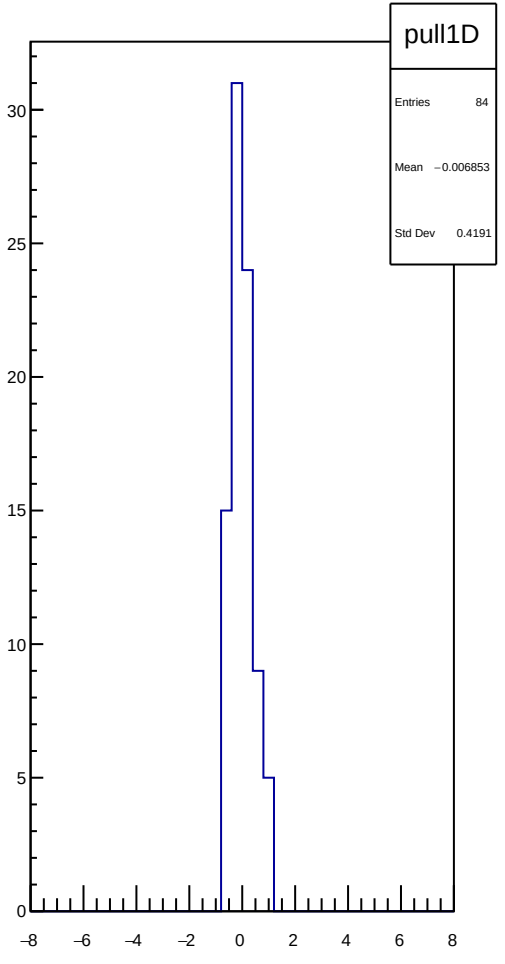

pull1D
Entries 84
Mean 0.01876
Std Dev 0.5127

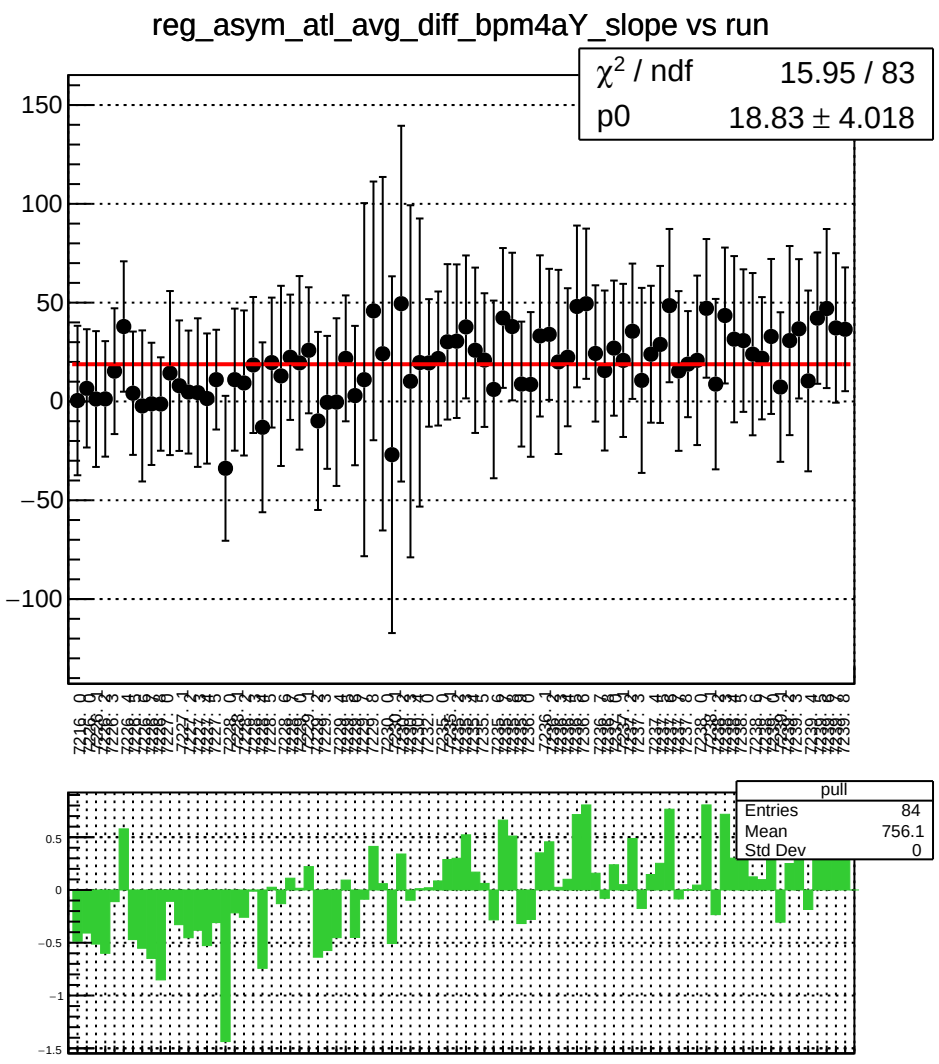

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 14.11 / 83
p0 107.2 ± 8.671
300
200
100
0
−100
pull
Entries 84
Mean 446.7
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

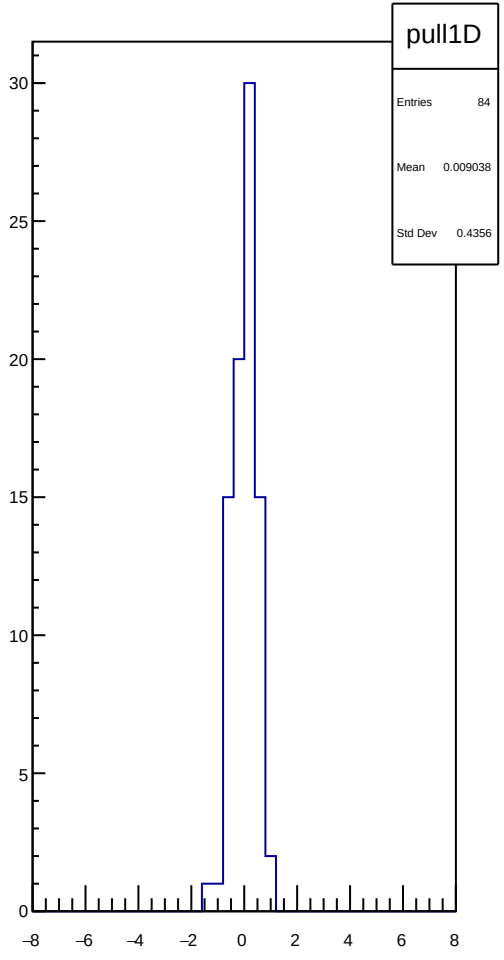

pull1D
Entries 84
Mean −0.01532
Std Dev 0.4096
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

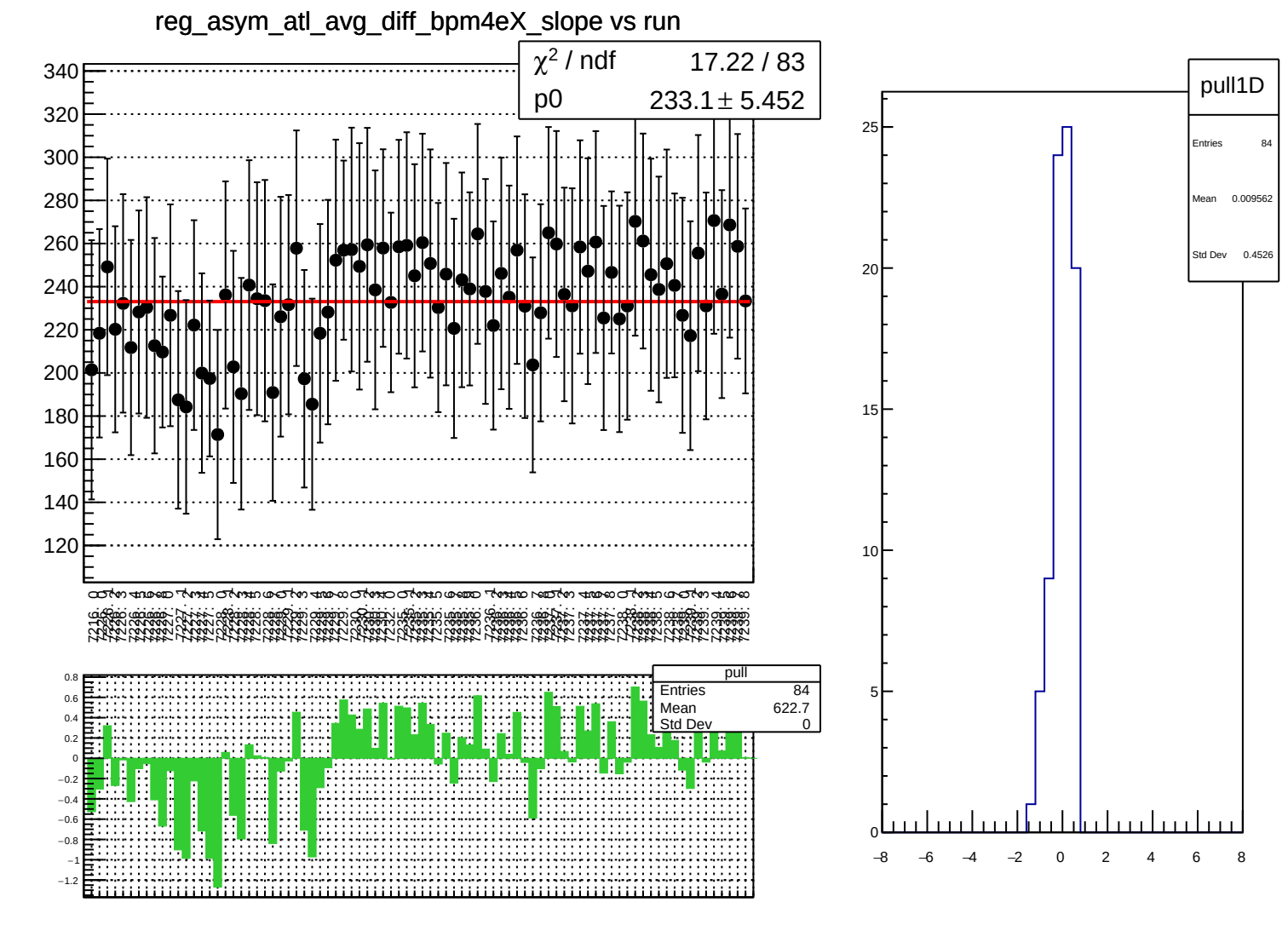

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 42 / 83
p0 −249.3 ± 0.3676
pull
Entries 84
Mean 318.8
Std Dev 0
pull1D
Entries 84
Mean −0.04366
Std Dev 0.7058

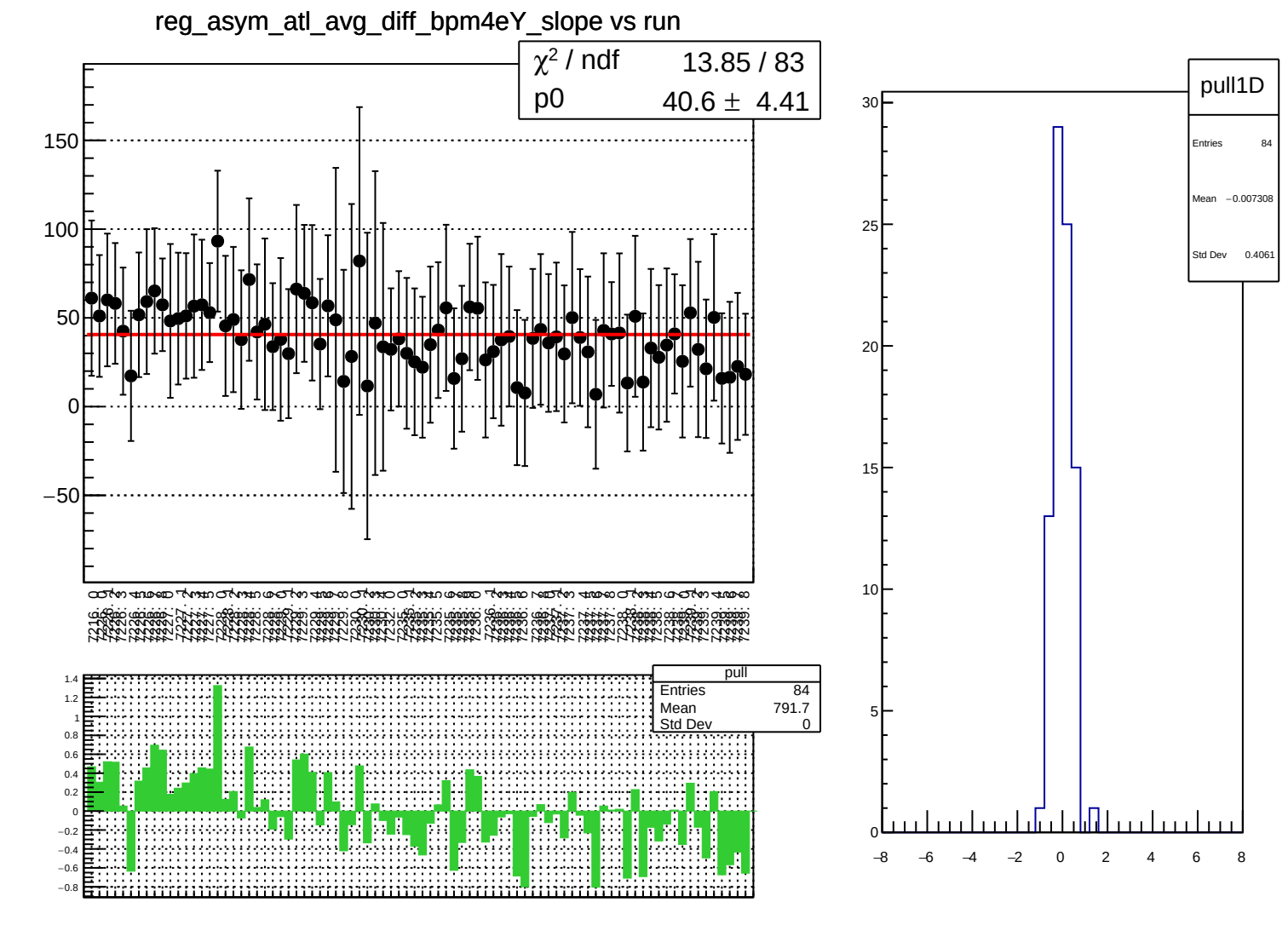

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 14.76 / 83
p0 −239.3 ± 5.346
pull
Entries 84
Mean 616.5
Std Dev 0

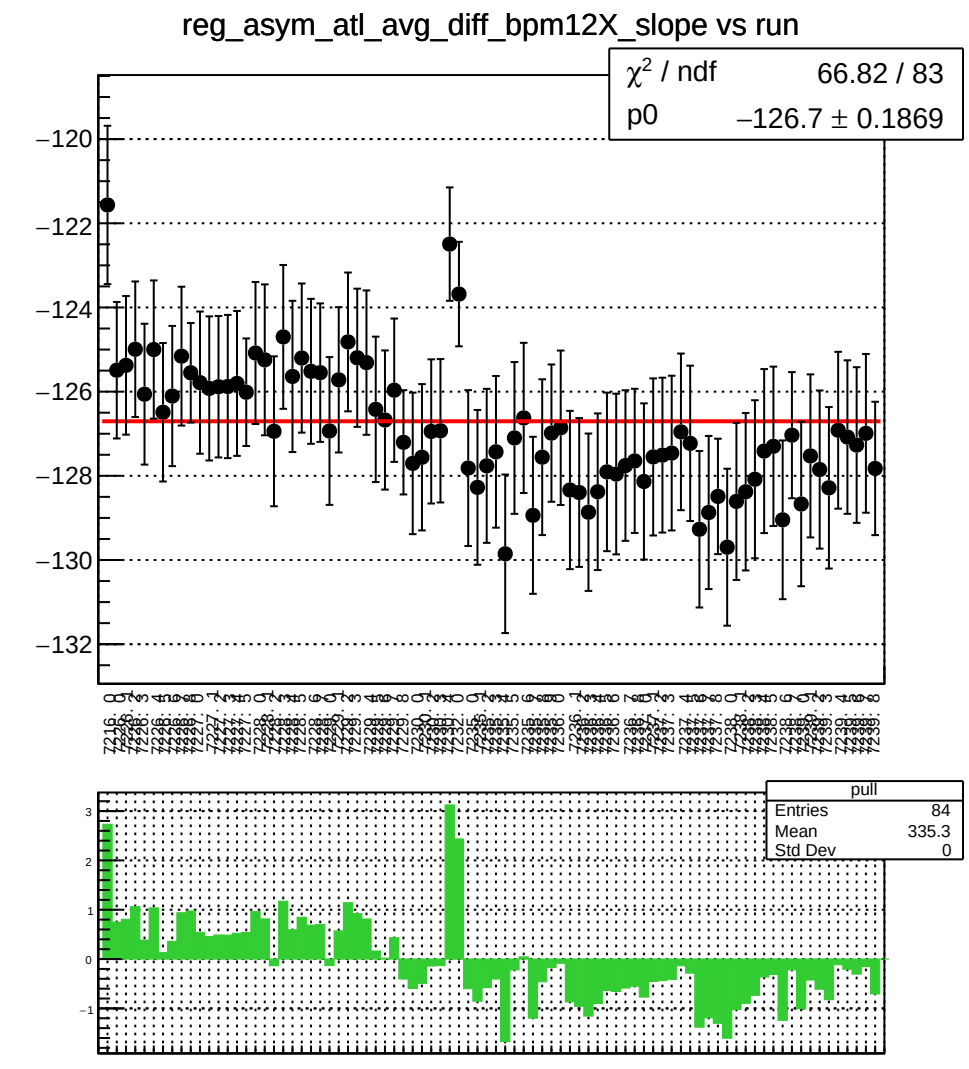

pull1D
Entries 84
Mean −0.006853
Std Dev 0.4191

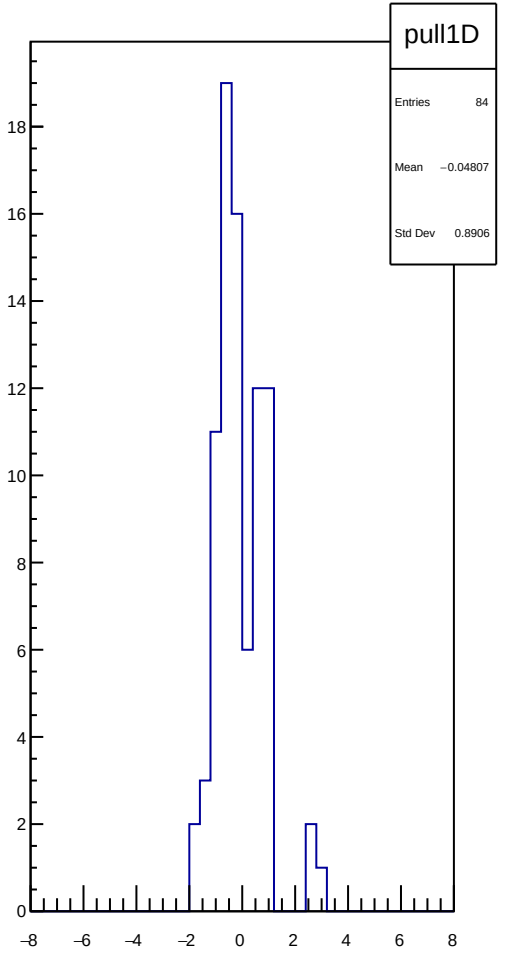

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 15.95 / 83
p0 18.83 ± 4.018
150
100
50
0
−50
−100
pull
Entries 84
Mean 756.1
Std Dev 0
0.5
0
−0.5
−1
−1.5

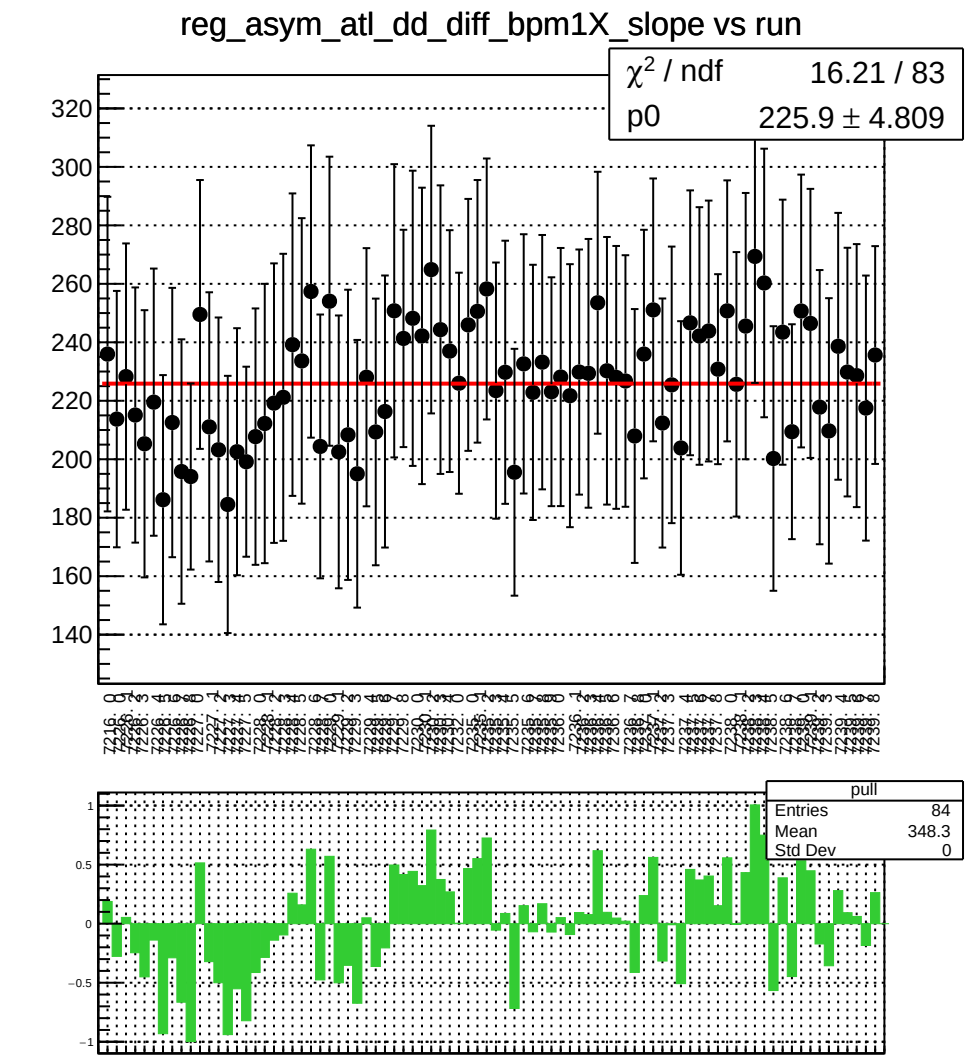

pull1D
Entries 84
Mean 0.009038
Std Dev 0.4356
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

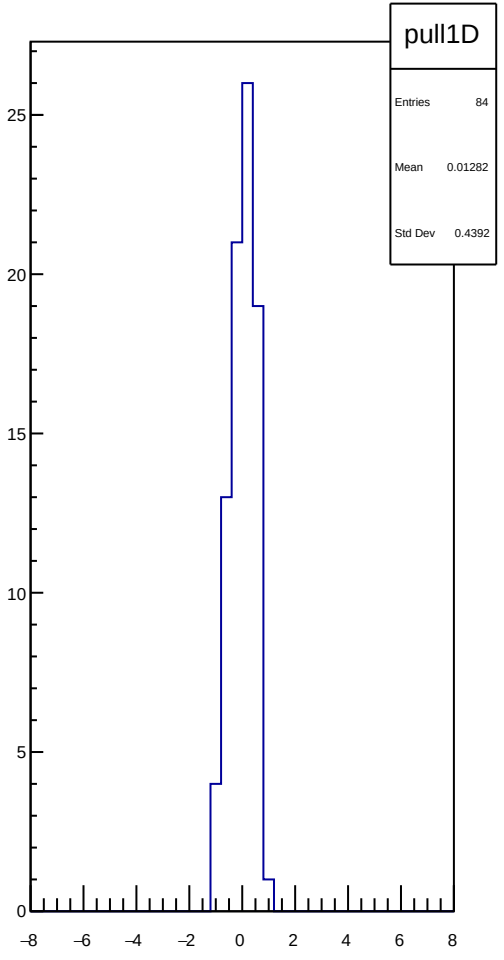

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 17.22 / 83
p0 233.1 ± 5.452
pull
Entries 84
Mean 622.7
Std Dev 0
pull1D
Entries 84
Mean 0.009562
Std Dev 0.4526

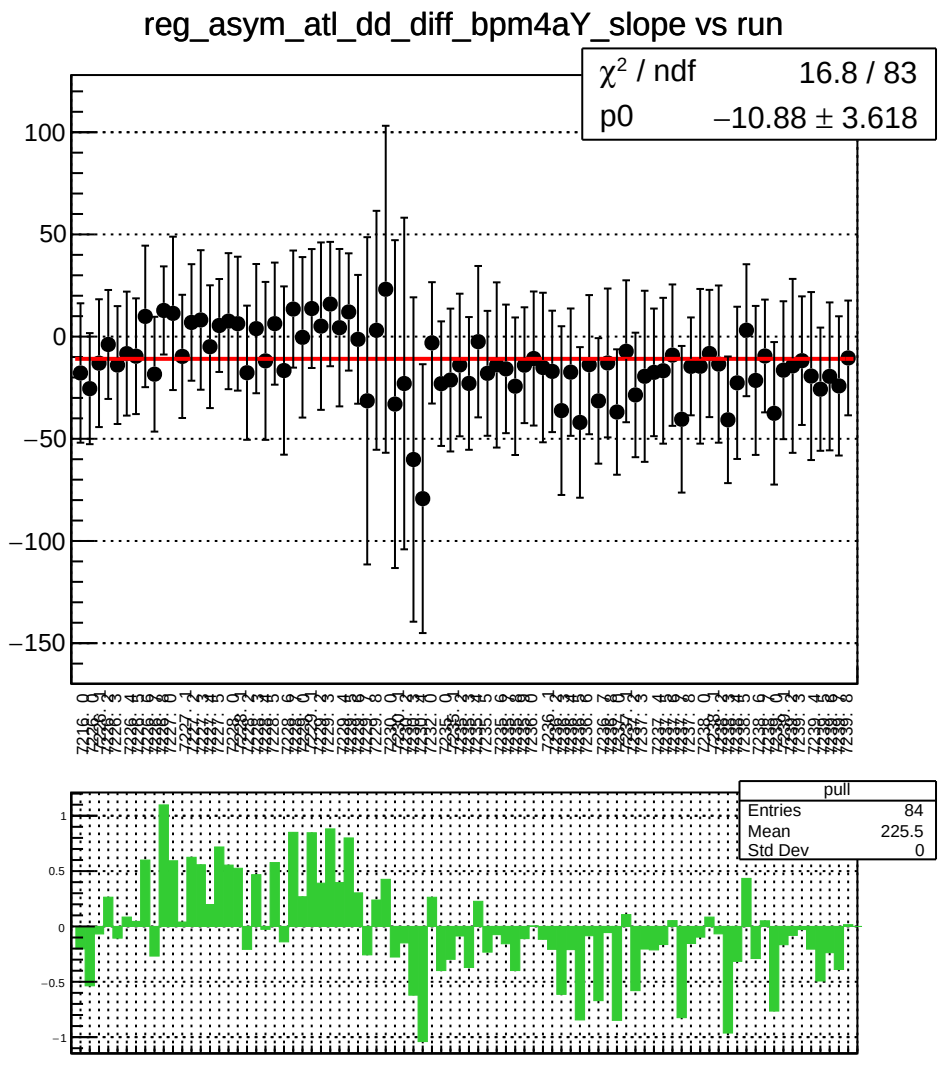

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.85 / 83
p0 40.6 ± 4.41
150
100
50
0
−50
pull
Entries 84
Mean 791.7
Std Dev 0
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 84
Mean −0.007308
Std Dev 0.4061
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

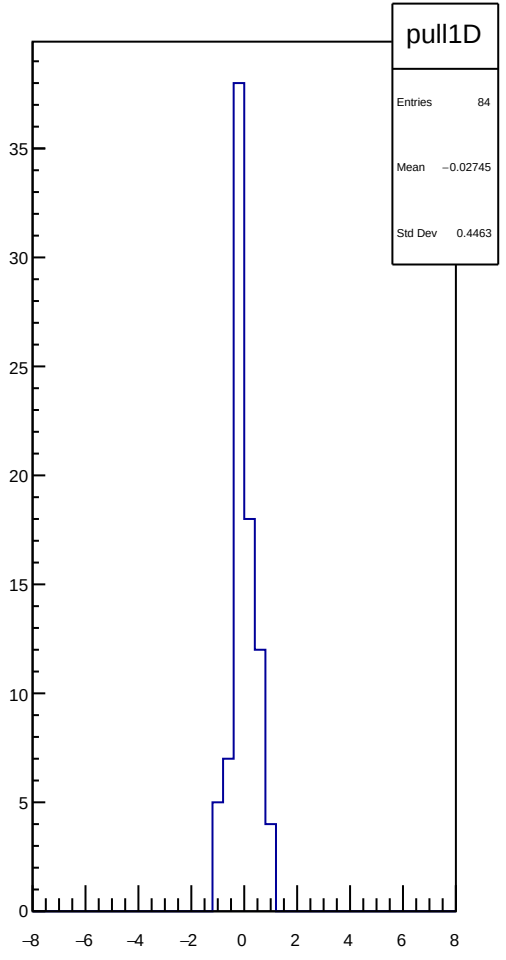

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 66.82 / 83
p0 −126.7 ± 0.1869
pull
Entries 84
Mean 335.3
Std Dev 0

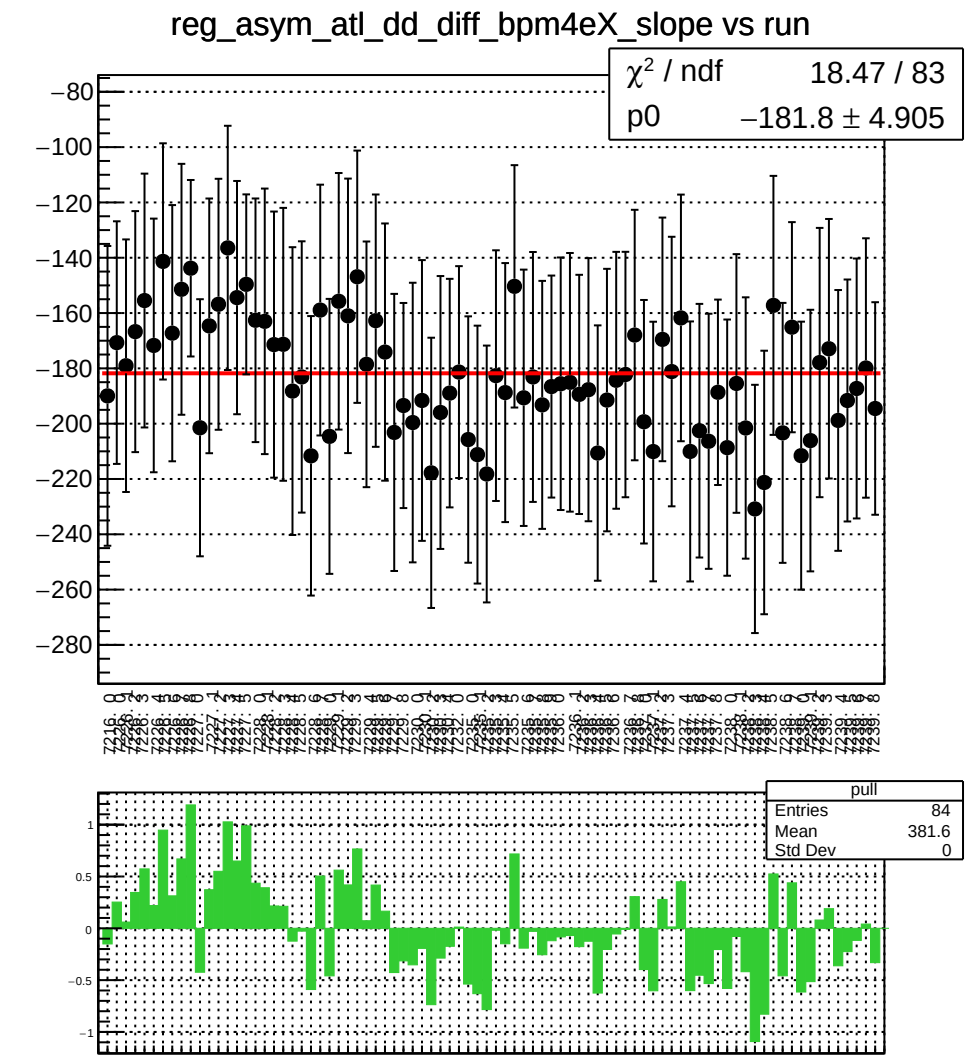

pull1D
Entries 84
Mean −0.04807
Std Dev 0.8906

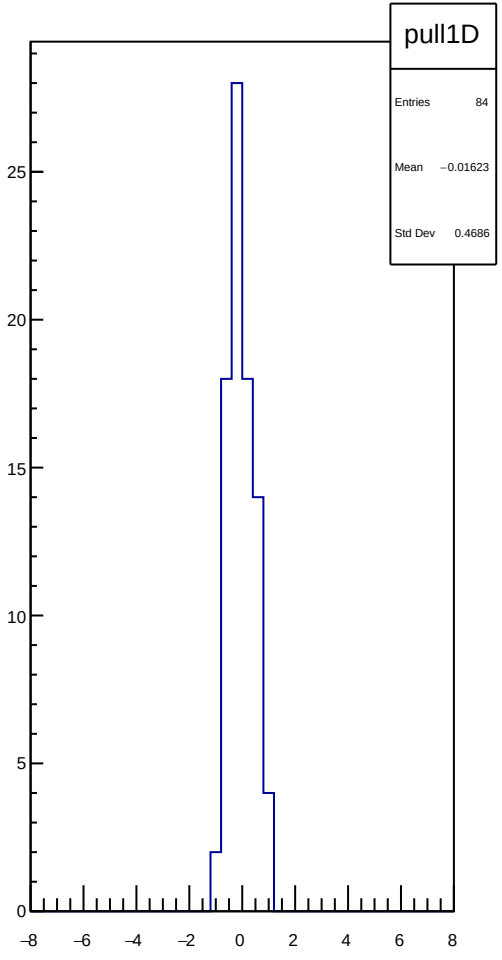

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 16.21 / 83
p0 225.9 ± 4.809
pull
Entries 84
Mean 348.3
Std Dev 0

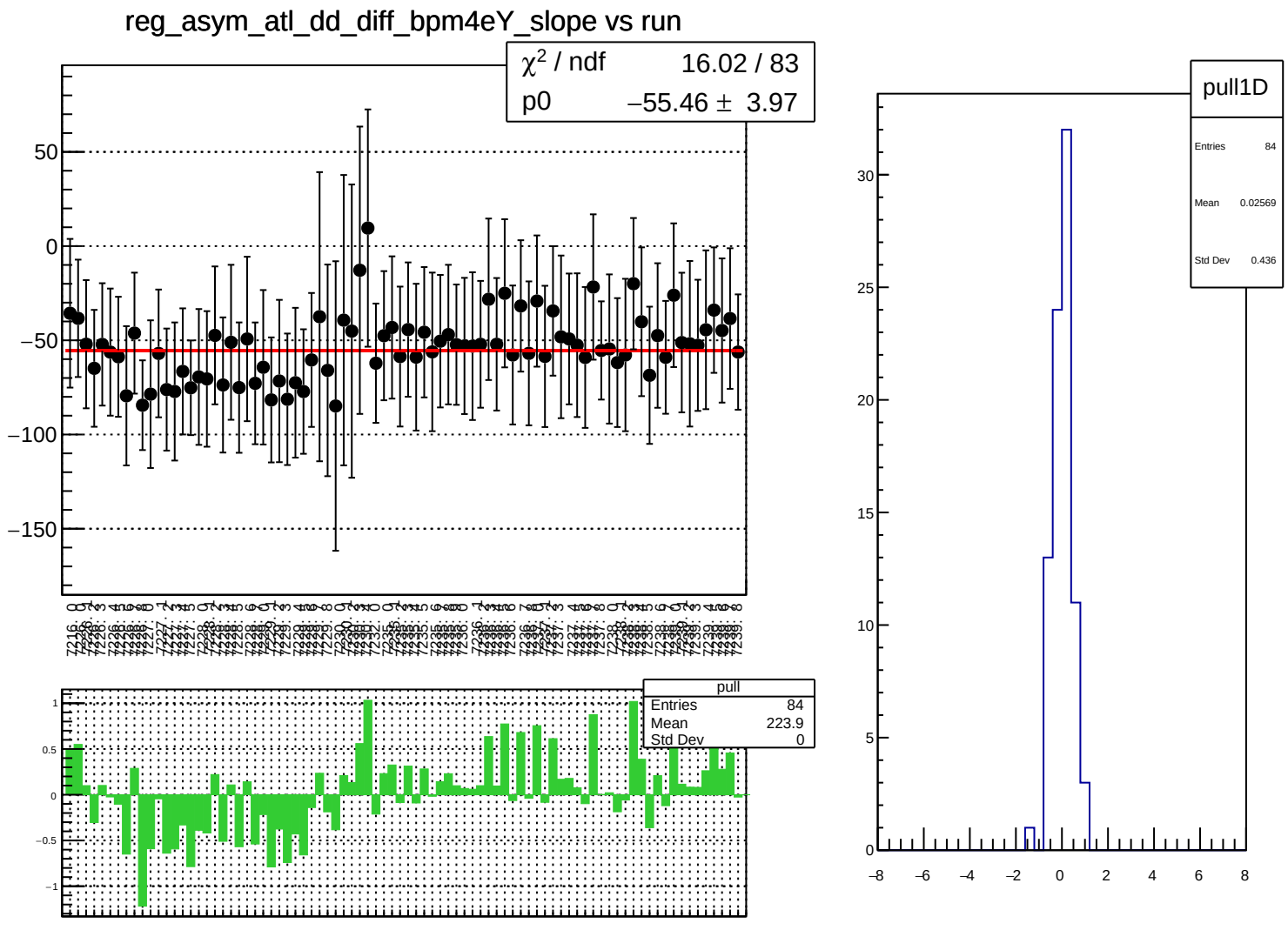

pull1D
Entries 84
Mean 0.01282
Std Dev 0.4392

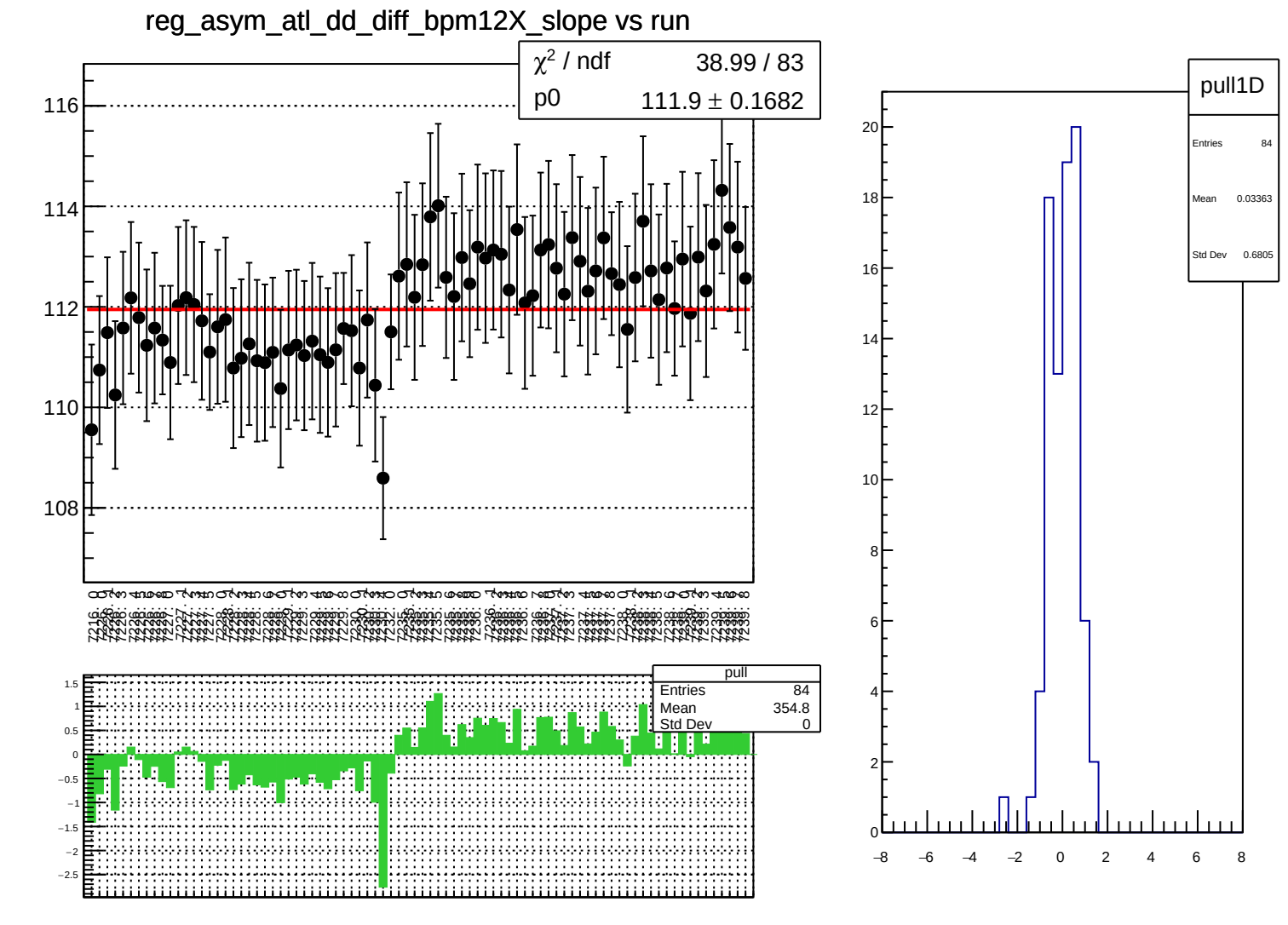

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.8 / 83
p0 −10.88 ± 3.618
100
50
0
−50
−100
−150
pull
Entries 84
Mean 225.5
Std Dev 0
1
0.5
0
−0.5
−1

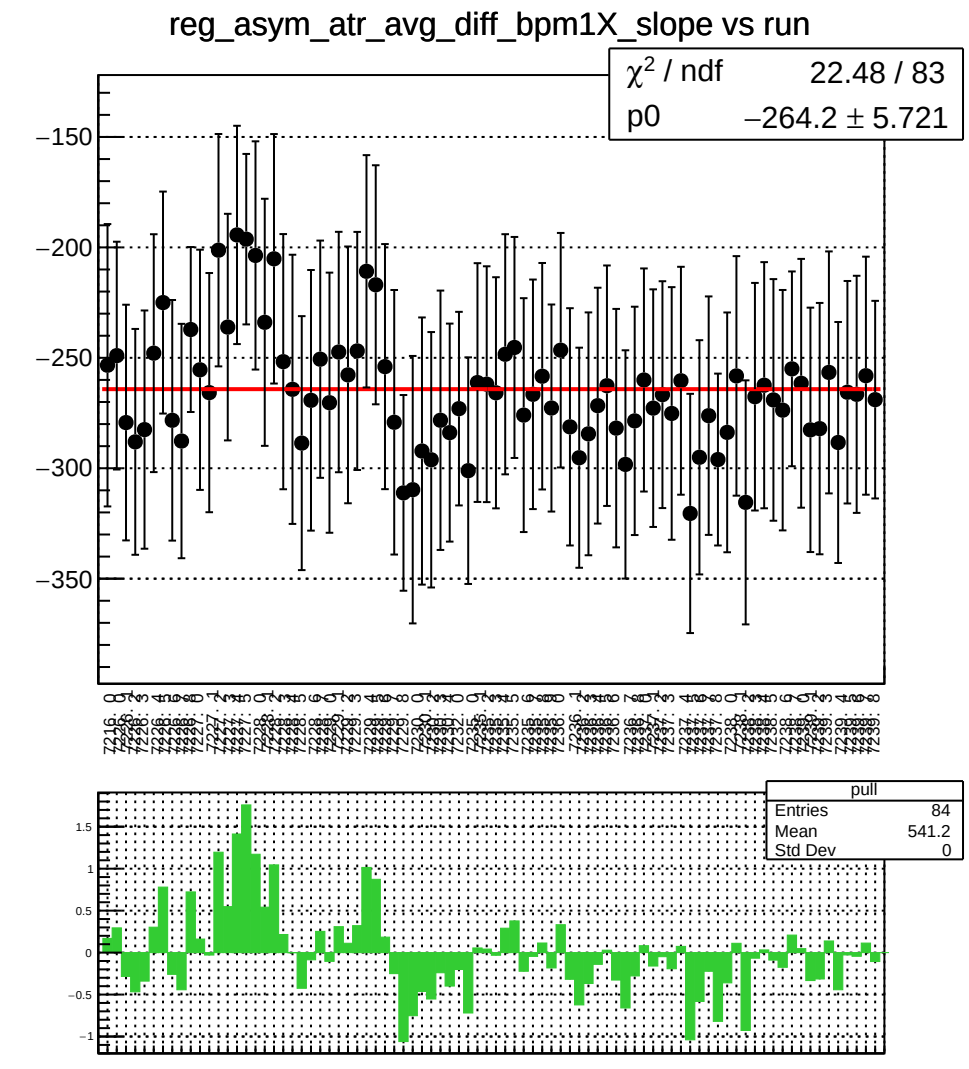

pull1D
Entries 84
Mean −0.02745
Std Dev 0.4463
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

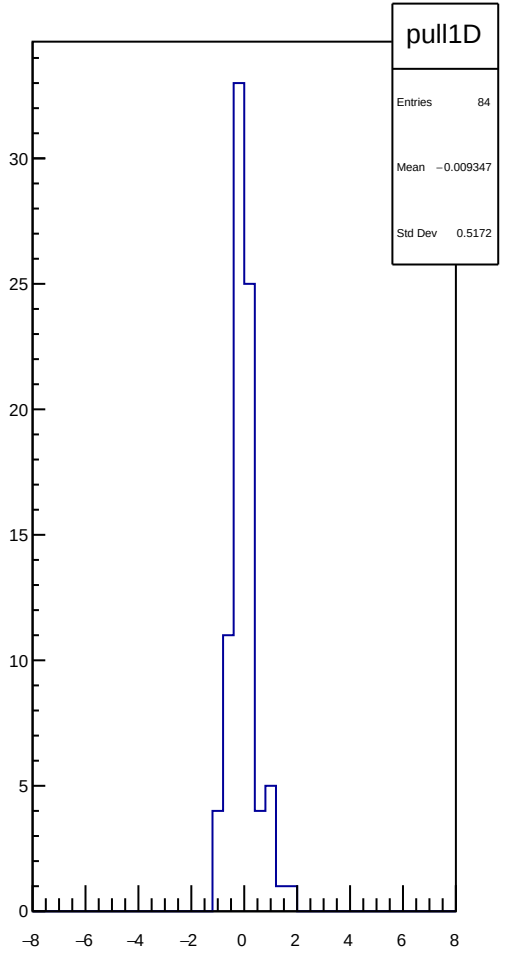

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 18.47 / 83
p0 −181.8 ± 4.905
pull
Entries 84
Mean 381.6
Std Dev 0

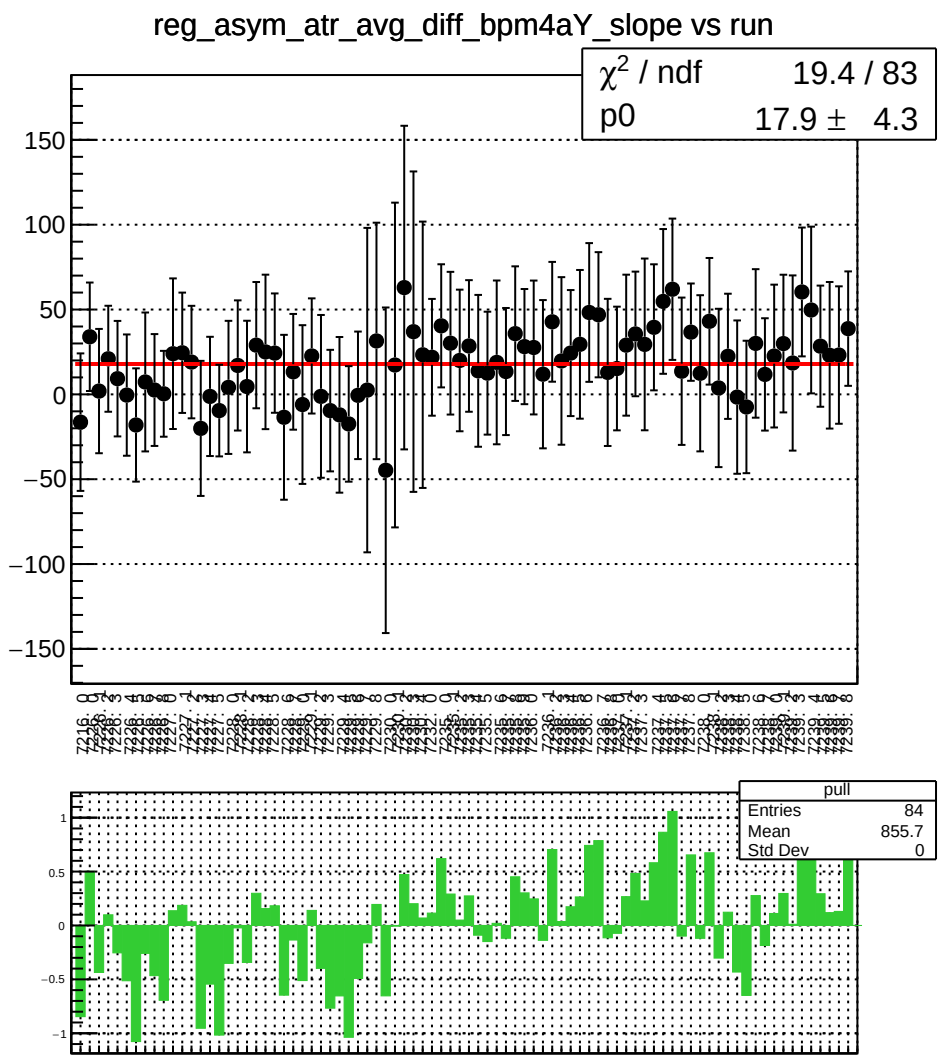

pull1D
Entries 84
Mean −0.01623
Std Dev 0.4686

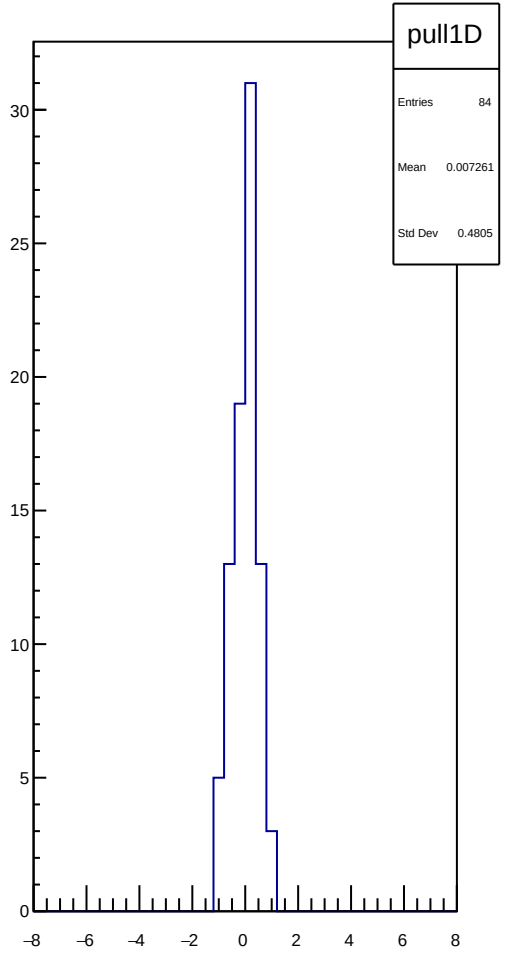

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 16.02 / 83
p0 −55.46 ± 3.97
50
0
−50
−100
−150
pull
Entries 84
Mean 223.9
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 84
Mean 0.02569
Std Dev 0.436
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

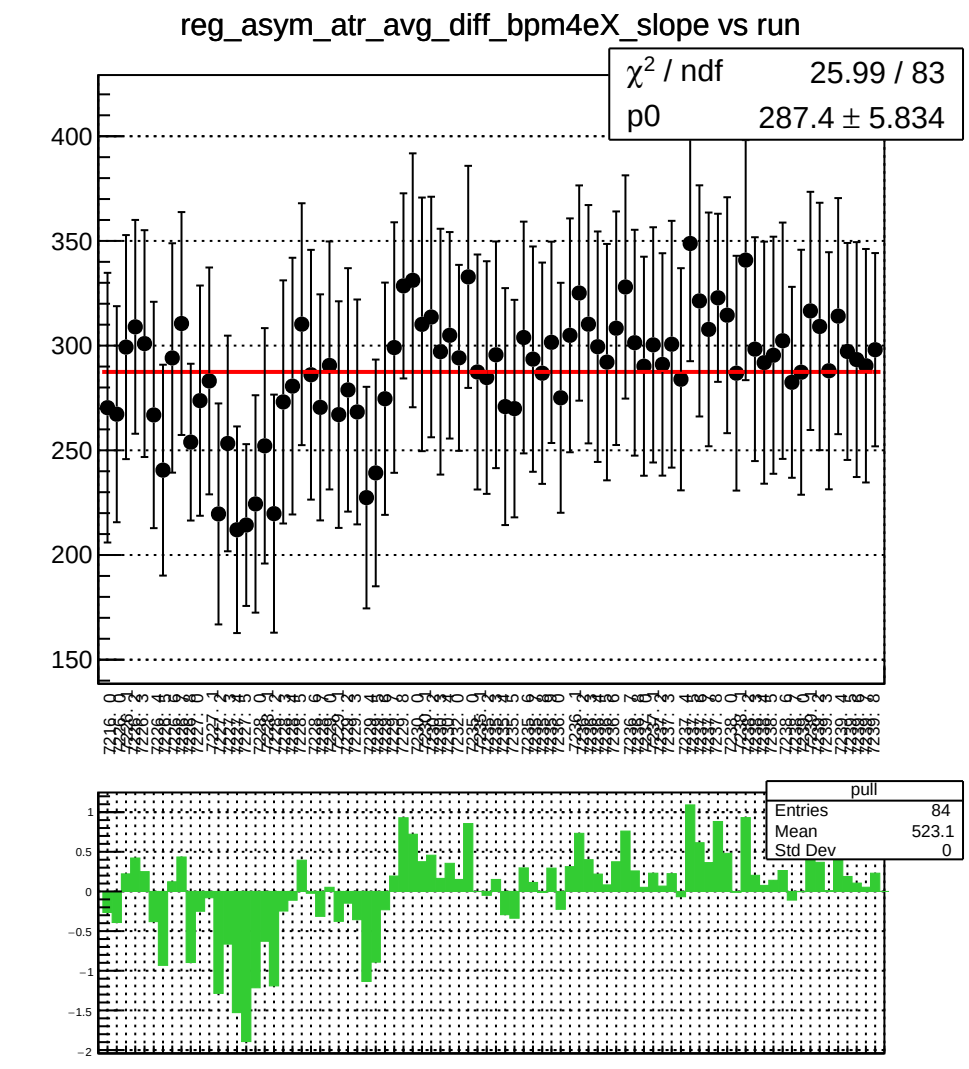

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 38.99 / 83
p0 111.9 ± 0.1682
116
114
112
110
108
pull
Entries 84
Mean 354.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 84
Mean 0.03363
Std Dev 0.6805
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

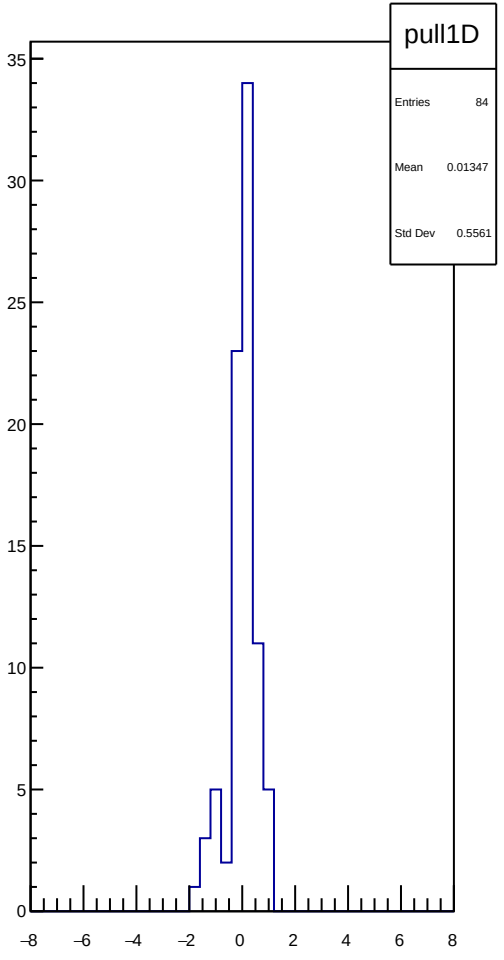

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 22.48 / 83
p0 −264.2 ± 5.721
−150
−200
−250
−300
−350
pull
Entries 84
Mean 541.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1

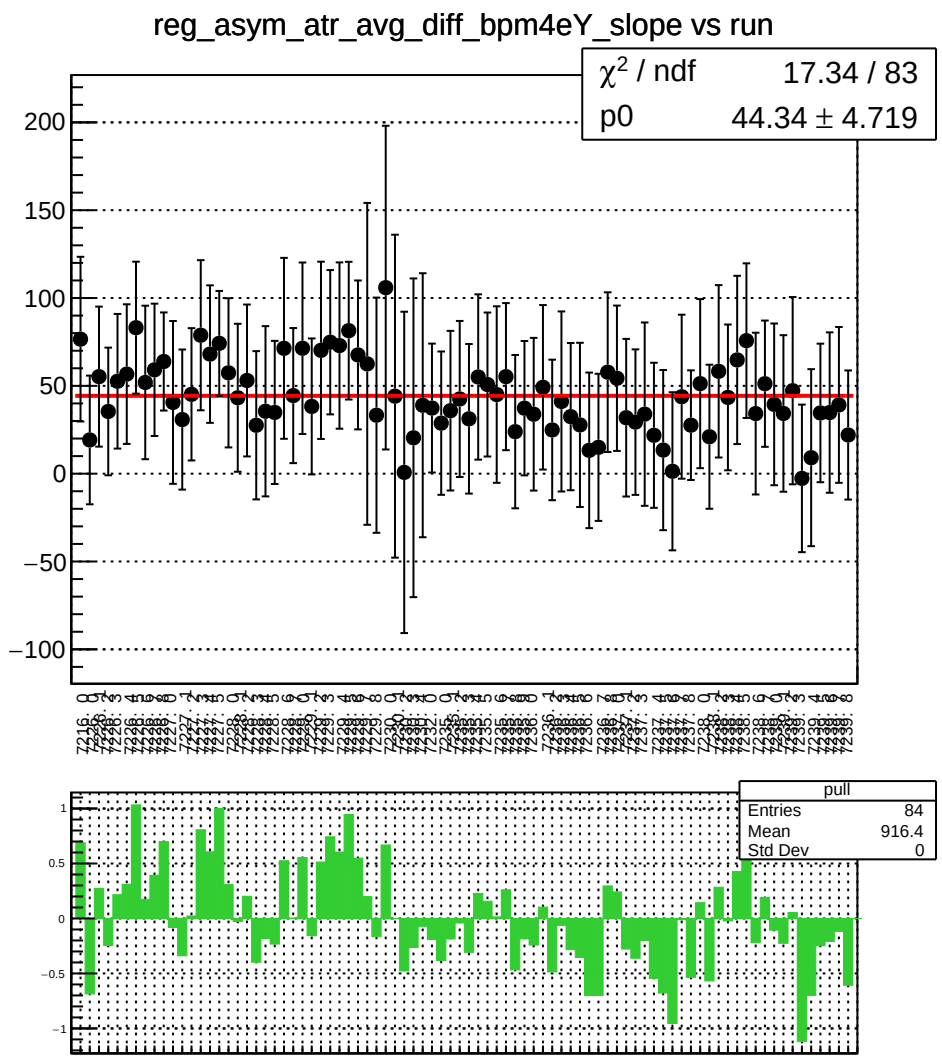

pull1D
Entries 84
Mean −0.009347
Std Dev 0.5172
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

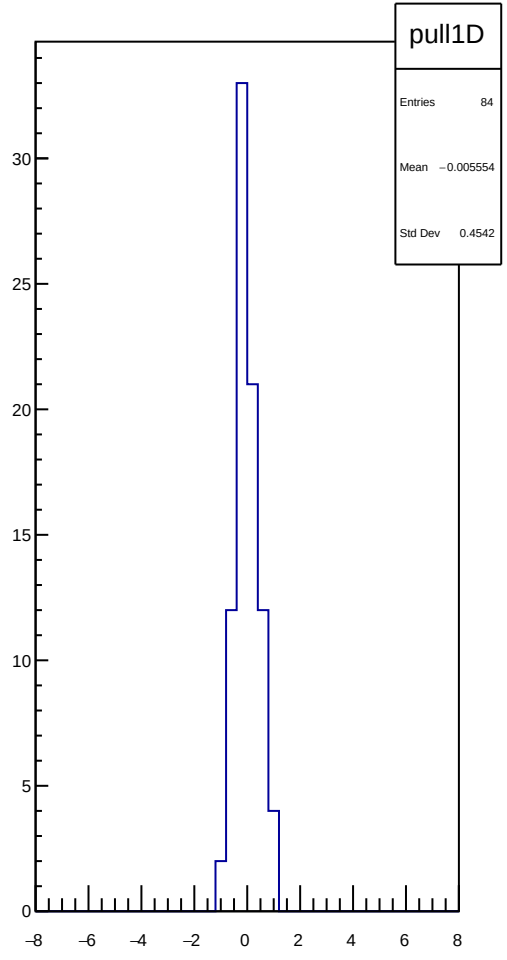

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 19.4 / 83
p0 17.9 ± 4.3
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean 855.7
Std Dev 0
1
0.5
0
−0.5
−1

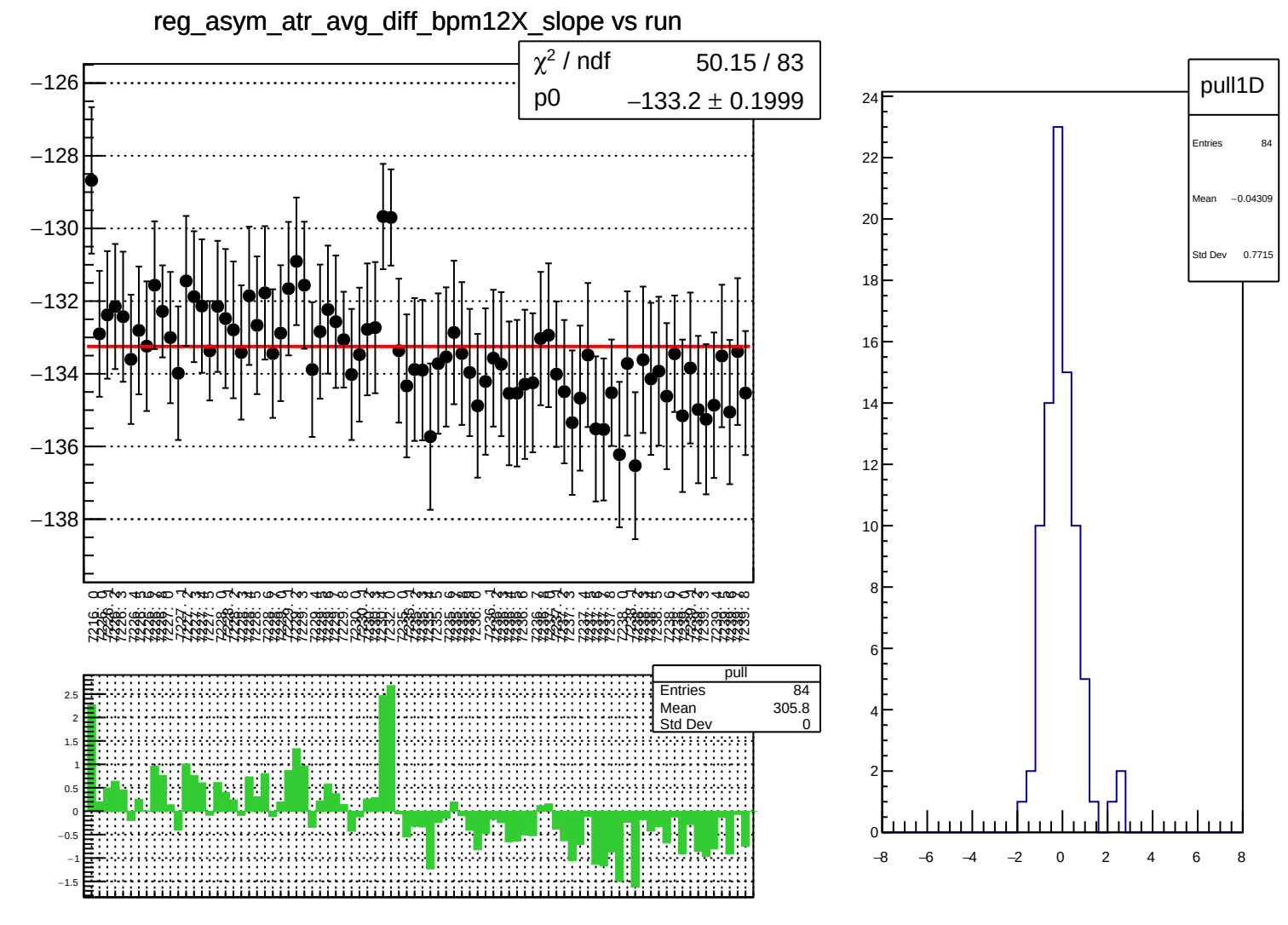

pull1D
Entries 84
Mean 0.007261
Std Dev 0.4805
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

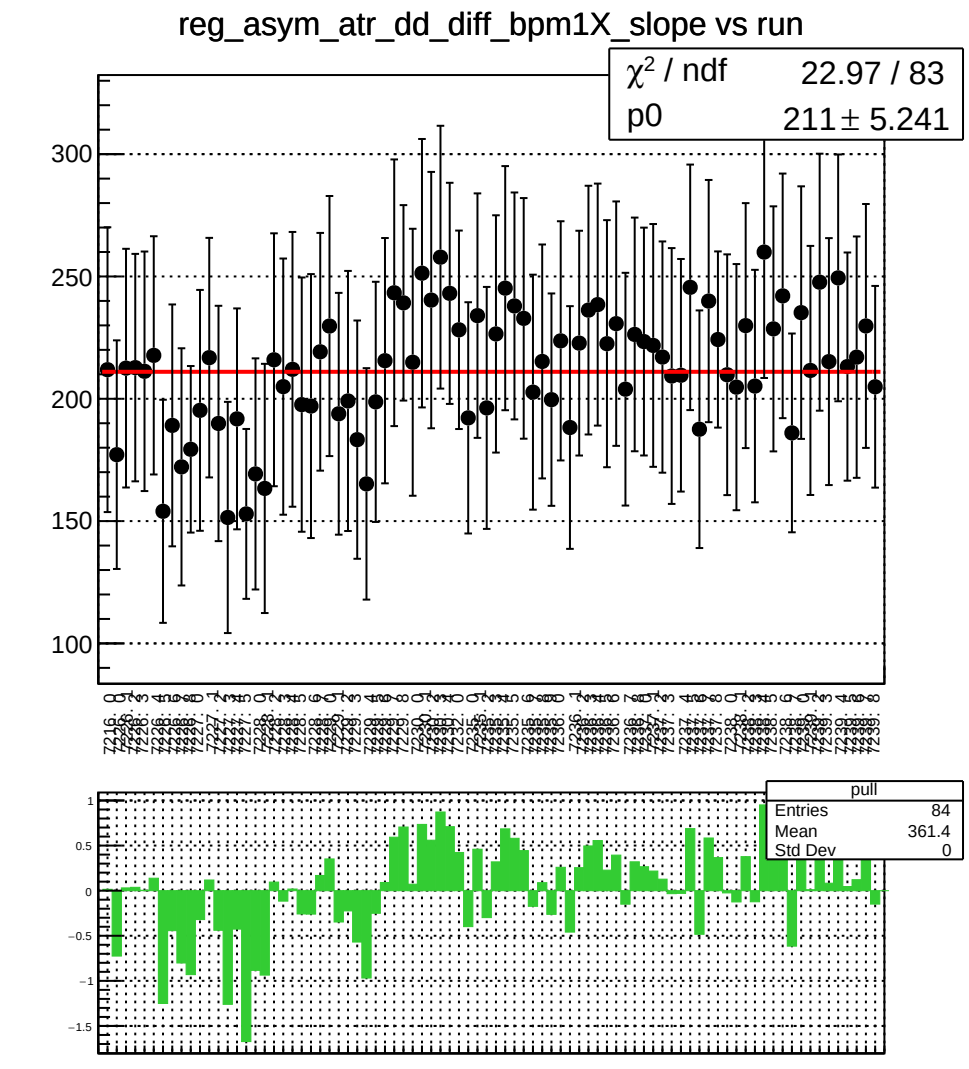

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 25.99 / 83
p0 287.4 ± 5.834
400
350
300
250
200
150
pull
Entries 84
Mean 523.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

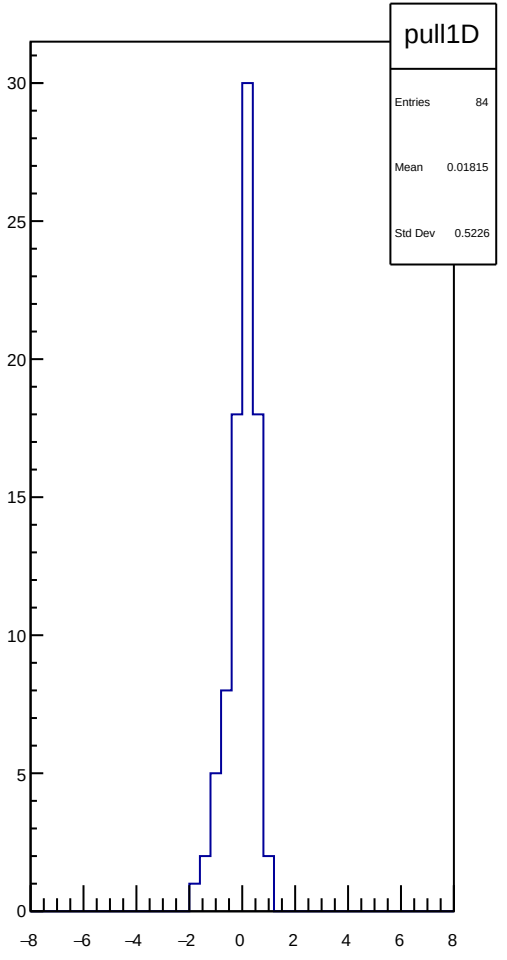

pull1D
Entries 84
Mean 0.01347
Std Dev 0.5561
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

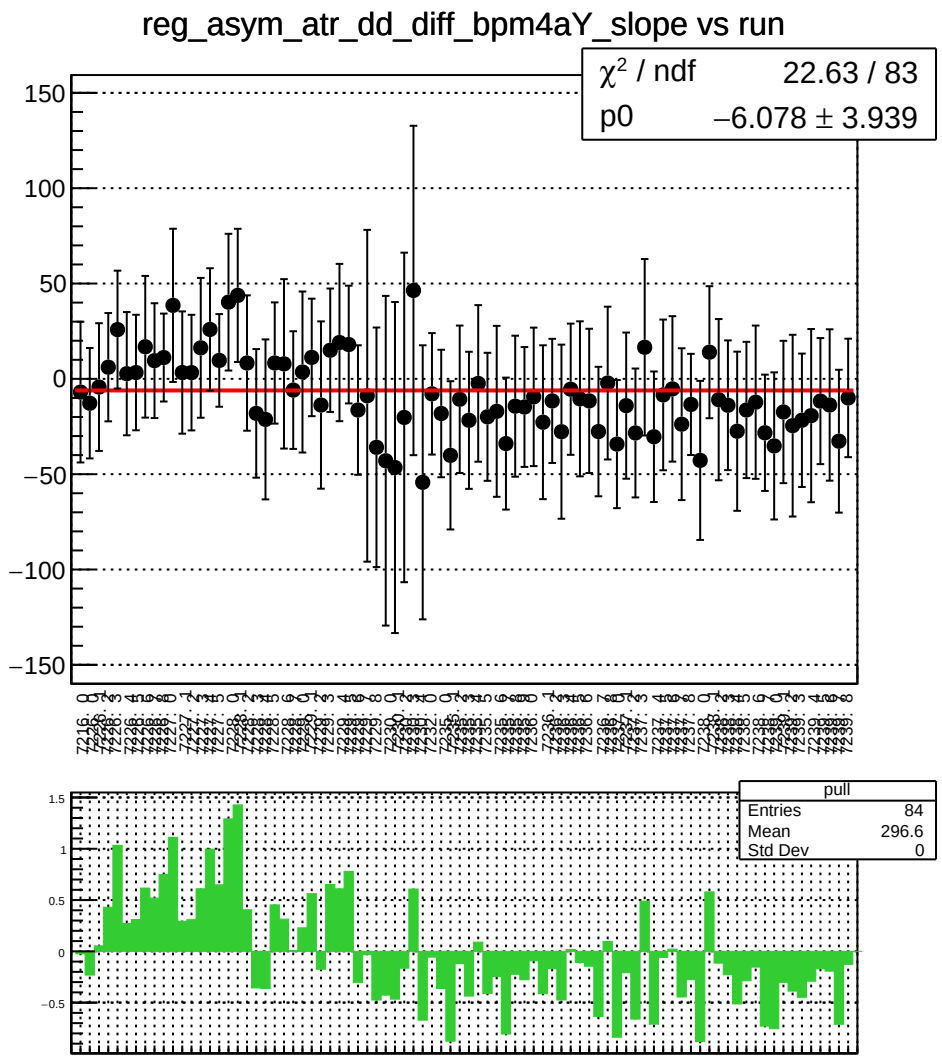

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.34 / 83
p0 44.34 ± 4.719
pull
Entries 84
Mean 916.4
Std Dev 0

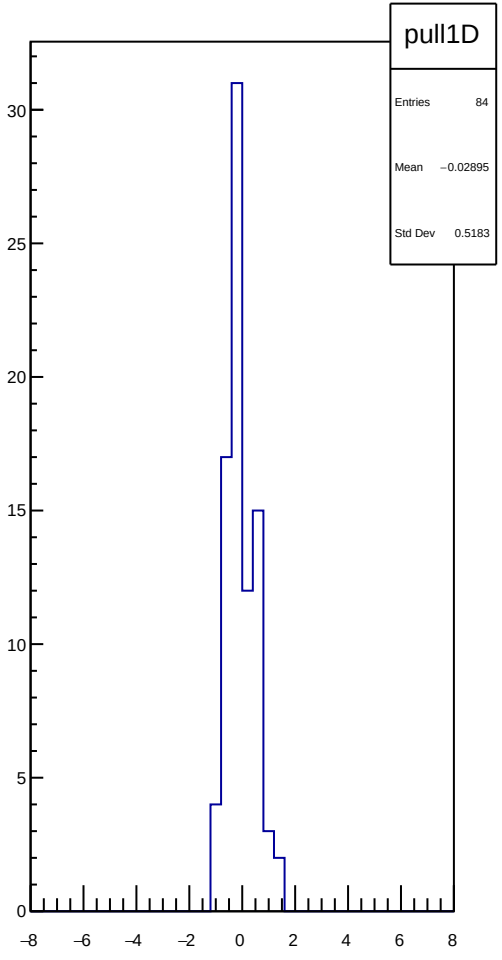

pull1D
Entries 84
Mean −0.005554
Std Dev 0.4542

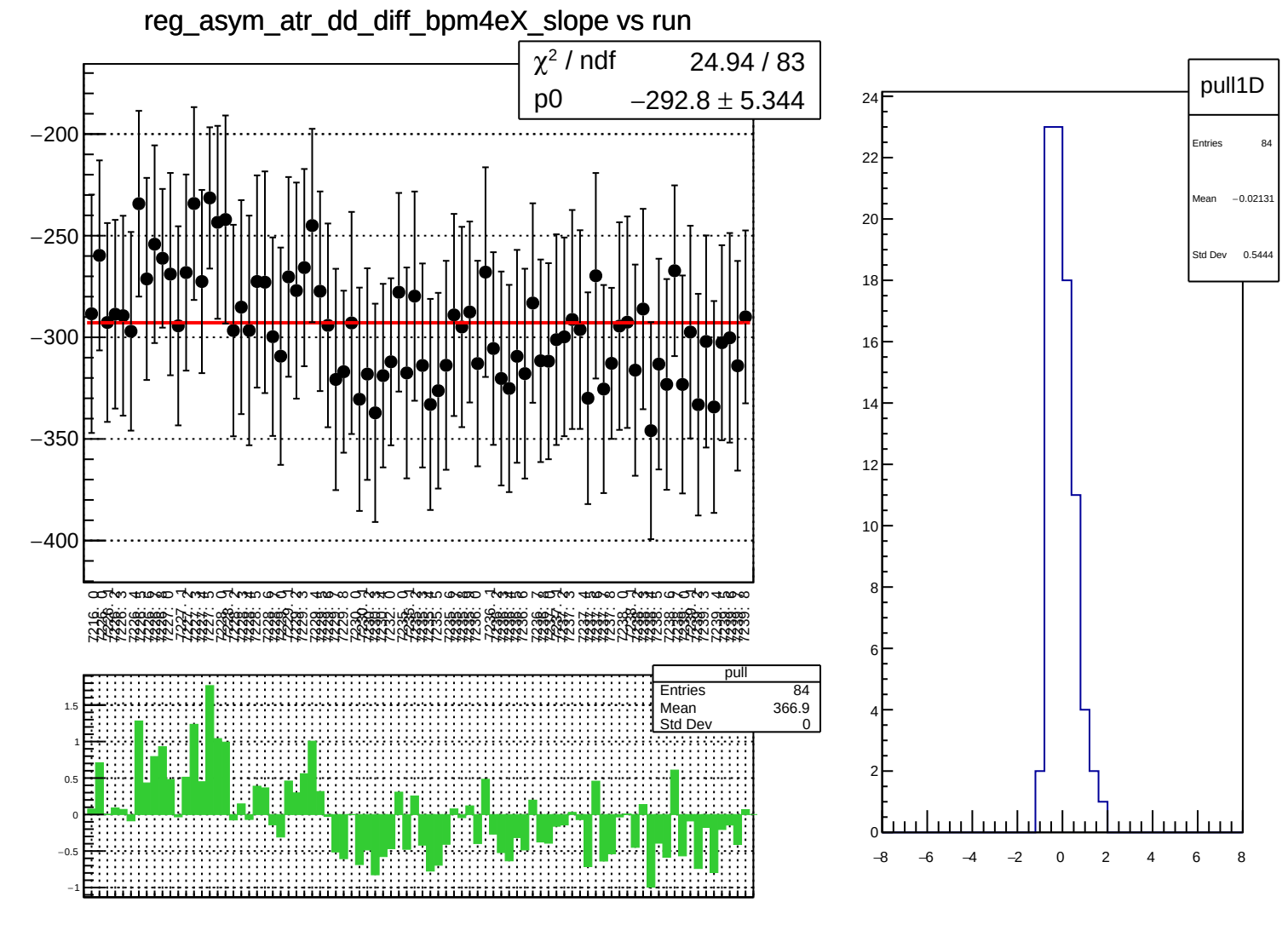

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 50.15 / 83
p0 −133.2 ± 0.1999
pull
Entries 84
Mean 305.8
Std Dev 0
pull1D
Entries 84
Mean −0.04309
Std Dev 0.7715

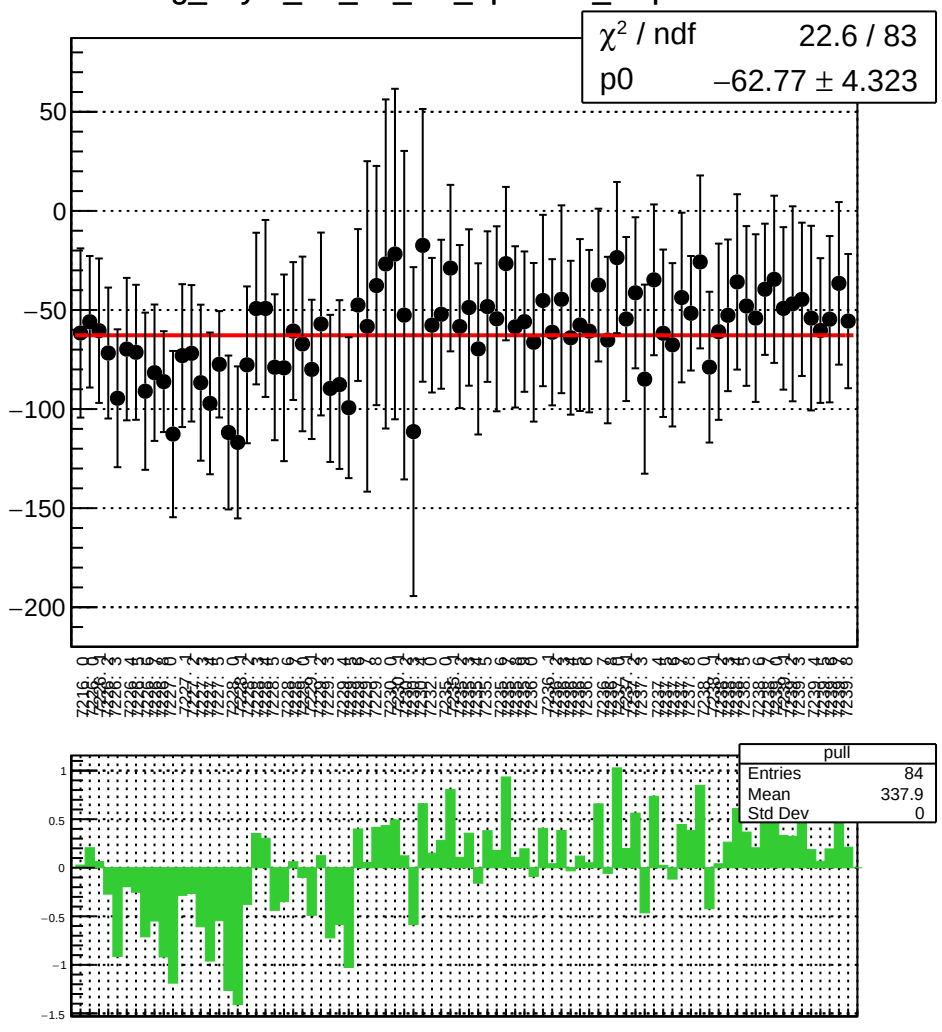

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 22.97 / 83
p0 211 ± 5.241
300
250
200
150
100
pull
Entries 84
Mean 361.4
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

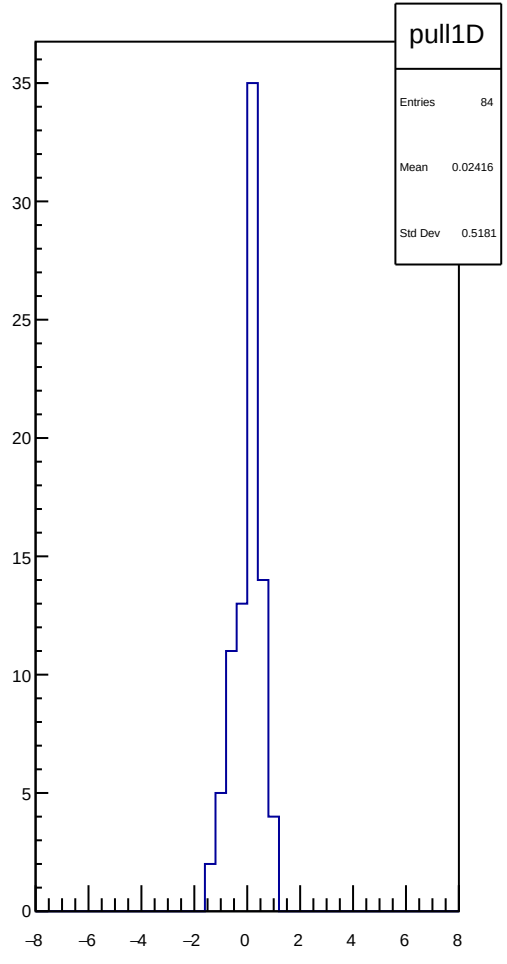

pull1D
Entries 84
Mean 0.01815
Std Dev 0.5226
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

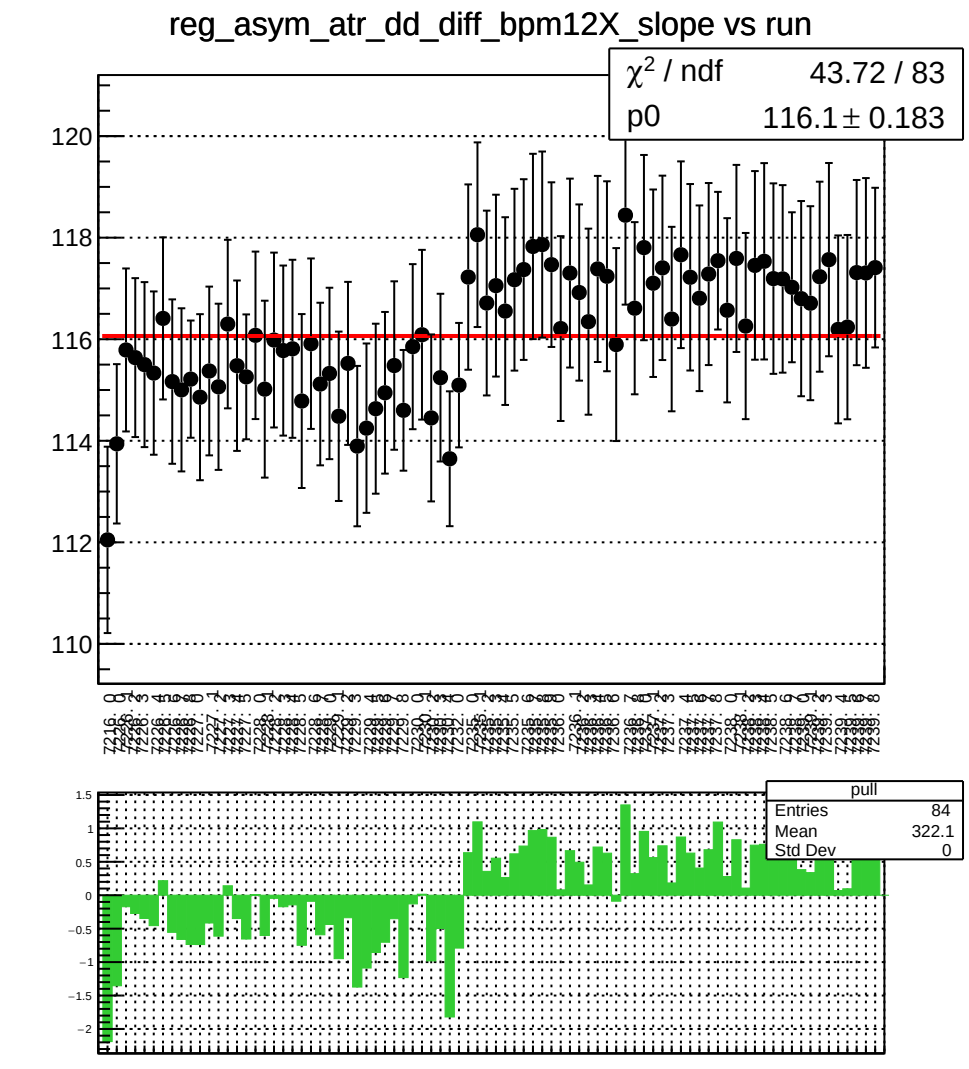

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 22.63 / 83
p0 −6.078 ± 3.939
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean 296.6
Std Dev 0
1.5
1
0.5
0
−0.5

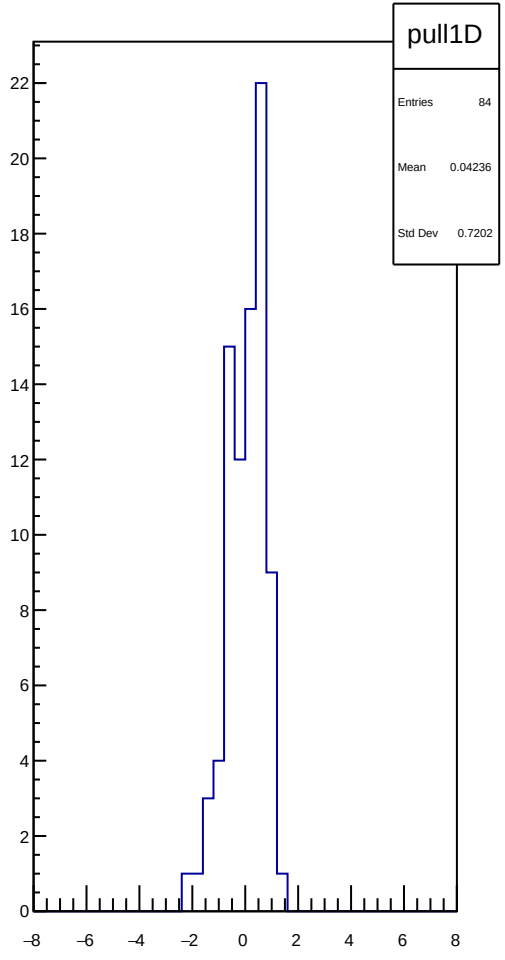

pull1D
Entries 84
Mean −0.02895
Std Dev 0.5183
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

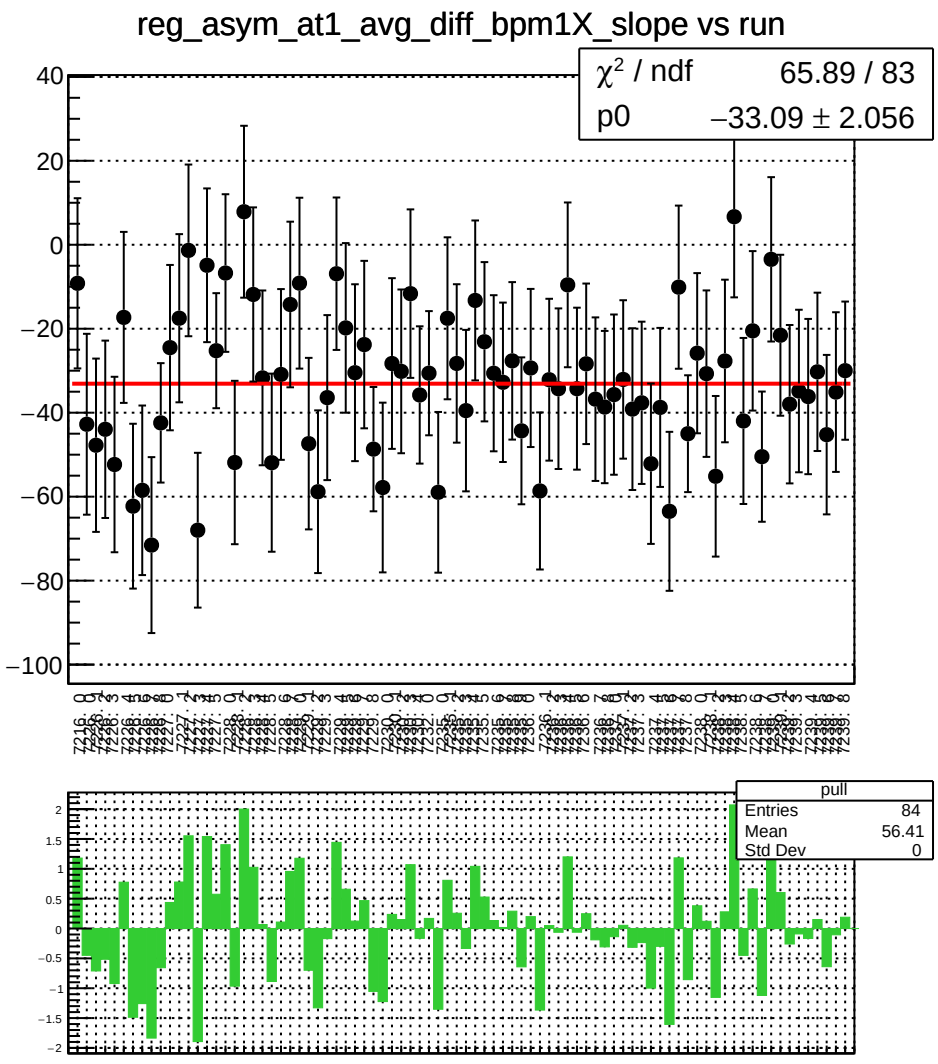

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 24.94 / 83
p0 −292.8 ± 5.344
pull
Entries 84
Mean 366.9
Std Dev 0
pull1D
Entries 84
Mean −0.02131
Std Dev 0.5444

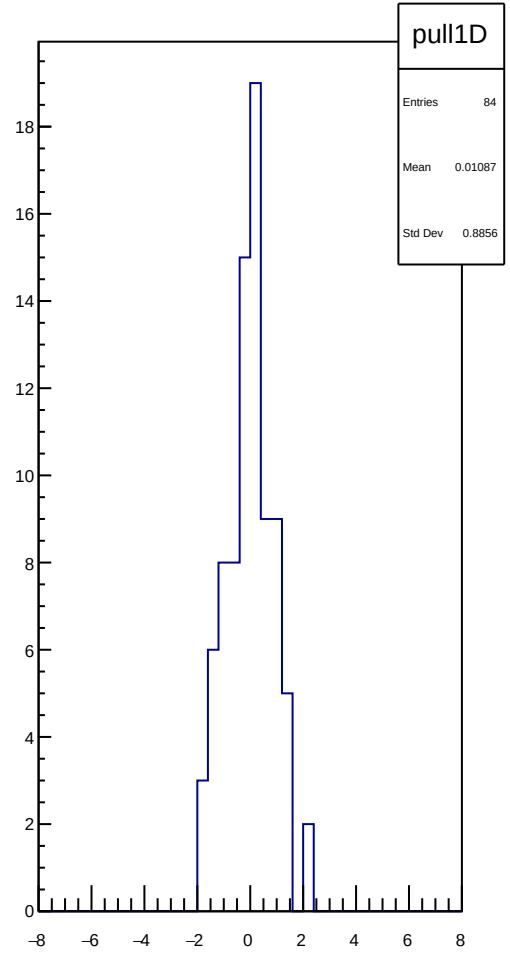

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 22.6 / 83
p0 −62.77 ± 4.323
pull
Entries 84
Mean 337.9
Std Dev 0

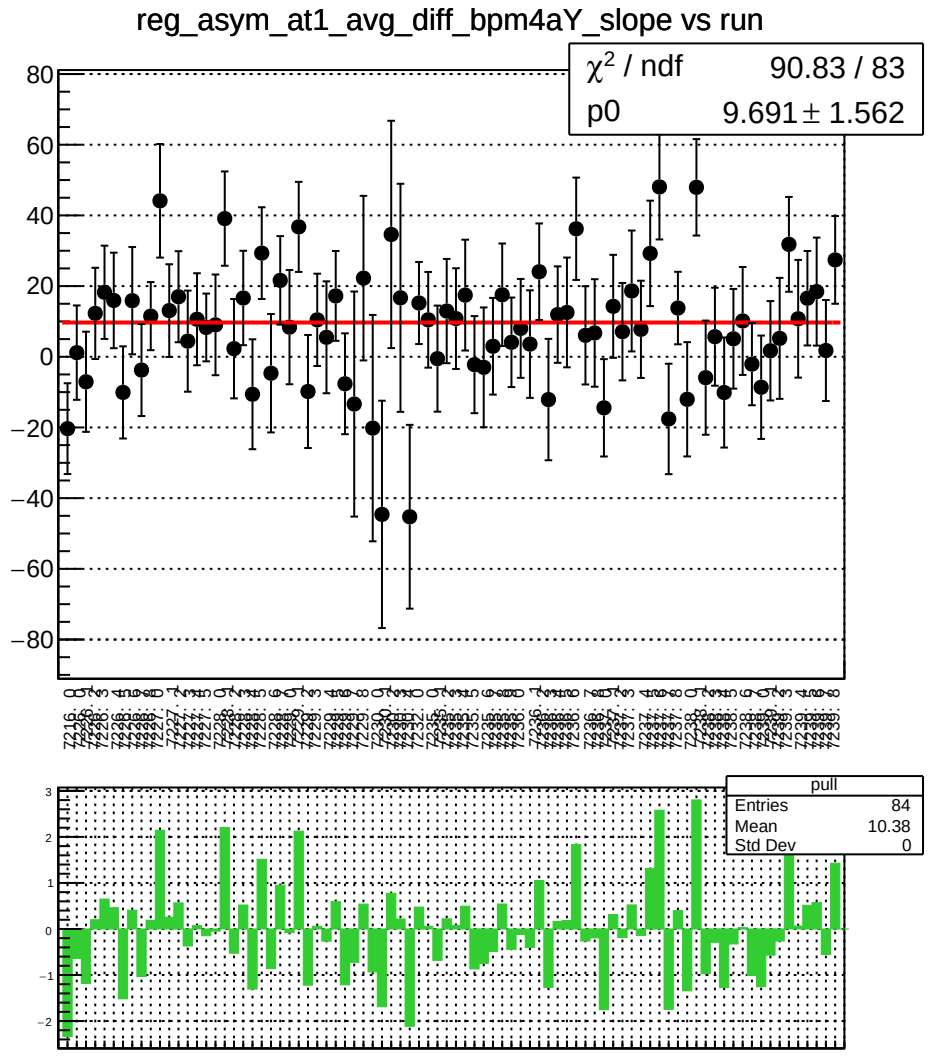

pull1D
Entries 84
Mean 0.02416
Std Dev 0.5181

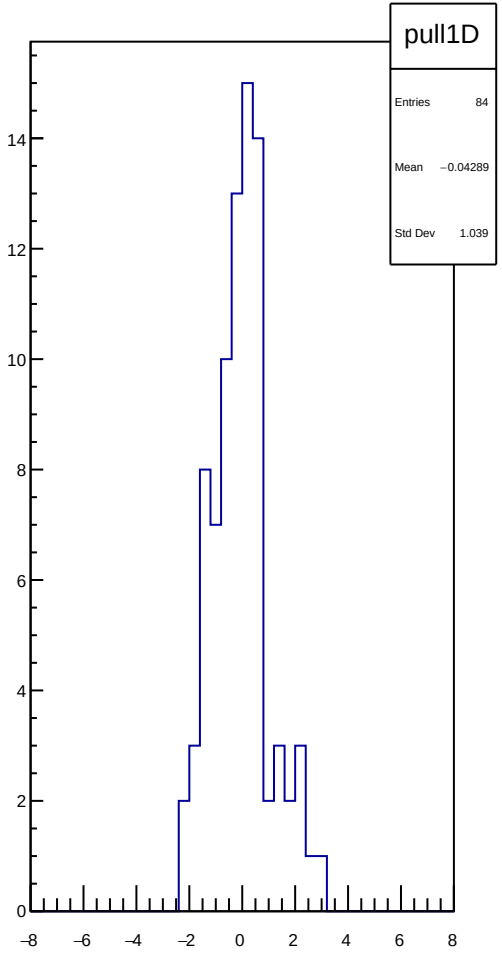

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ^2 / ndf 43.72 / 83
p0 116.1 ± 0.183
120
118
116
114
112
110
pull
Entries 84
Mean 322.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

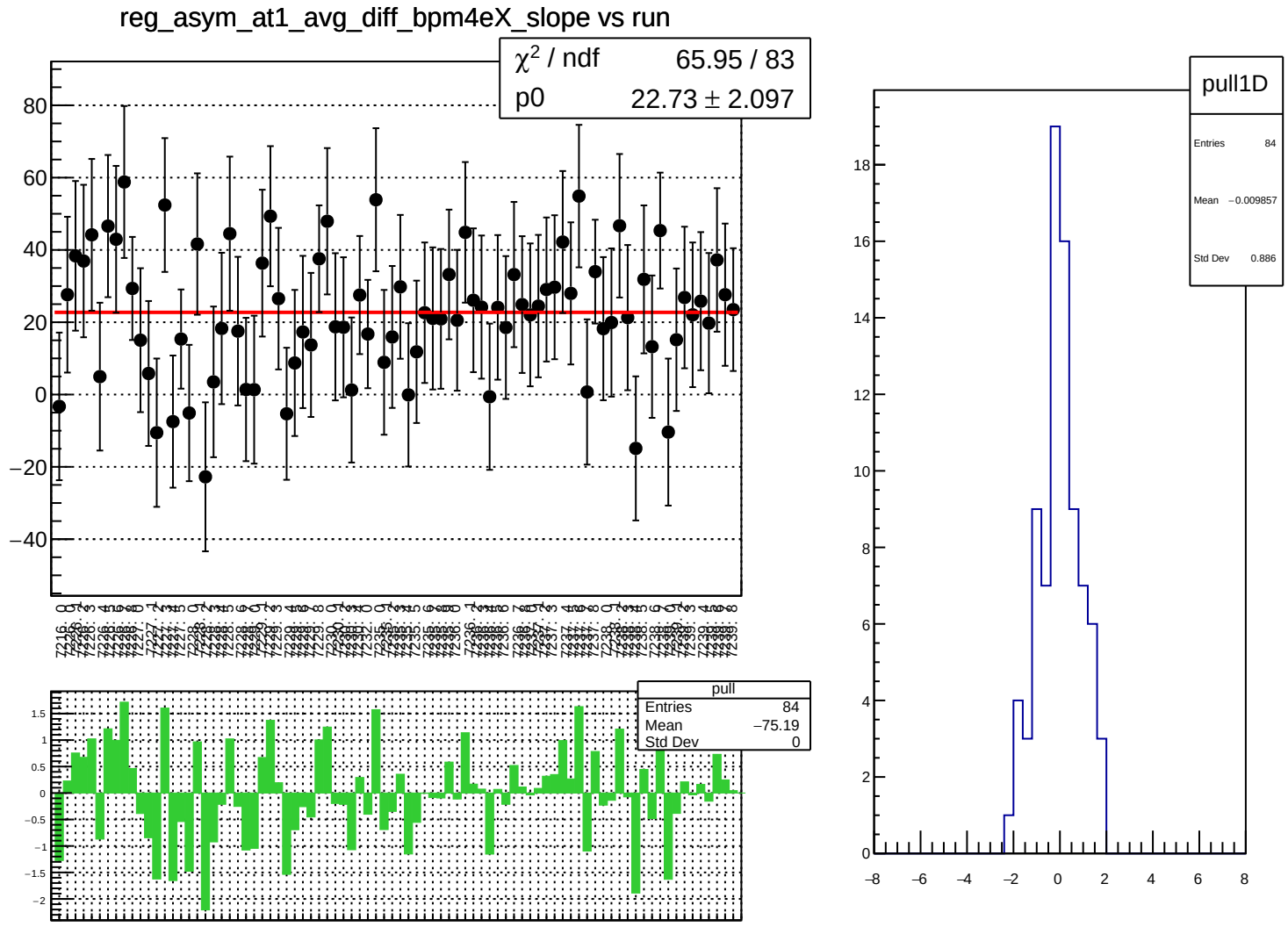

pull1D
Entries 84
Mean 0.04236
Std Dev 0.7202
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

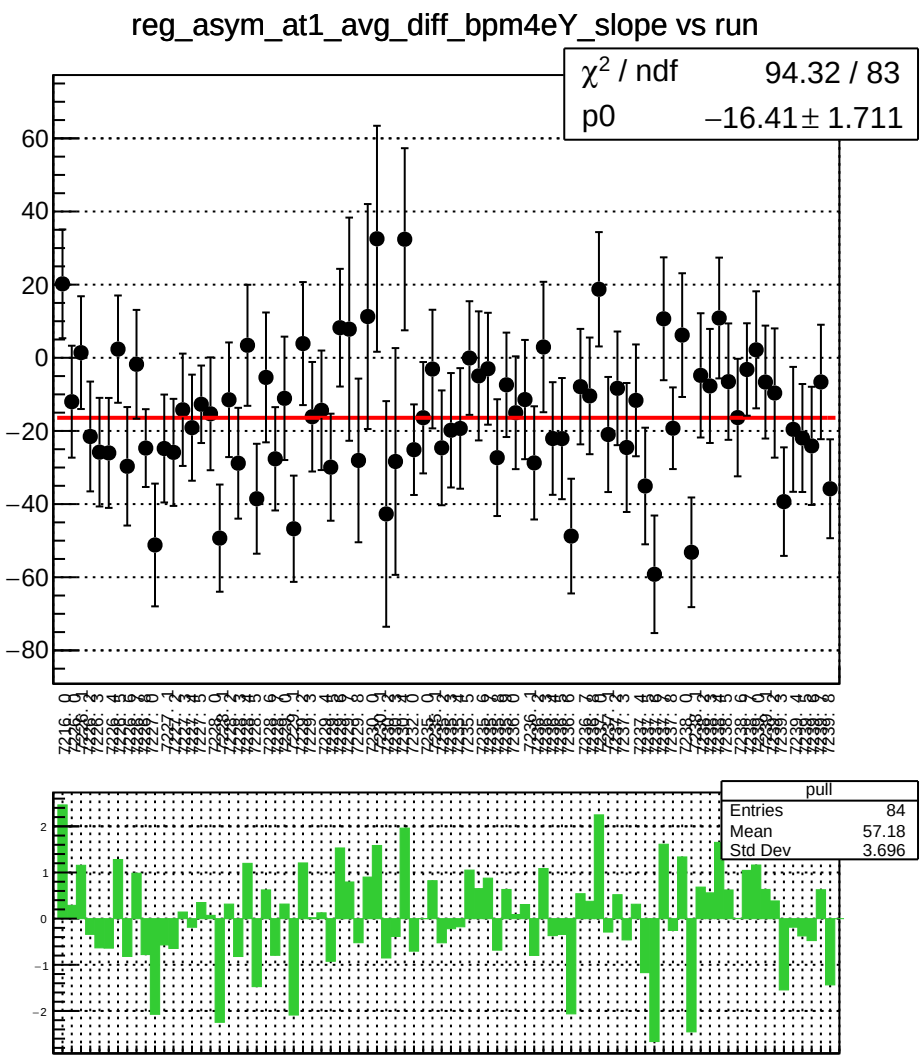

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 65.89 / 83
p0 −33.09 ± 2.056
pull
Entries 84
Mean 56.41
Std Dev 0

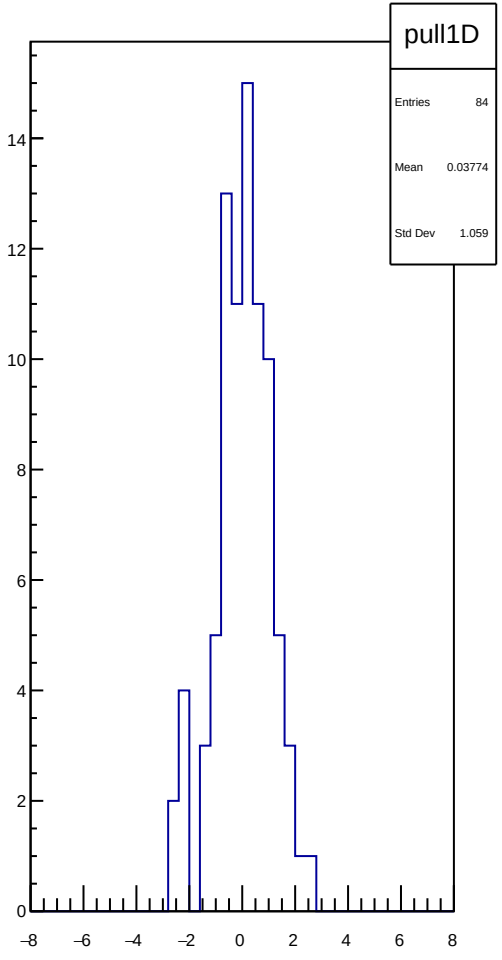

pull1D
Entries 84
Mean 0.01087
Std Dev 0.8856

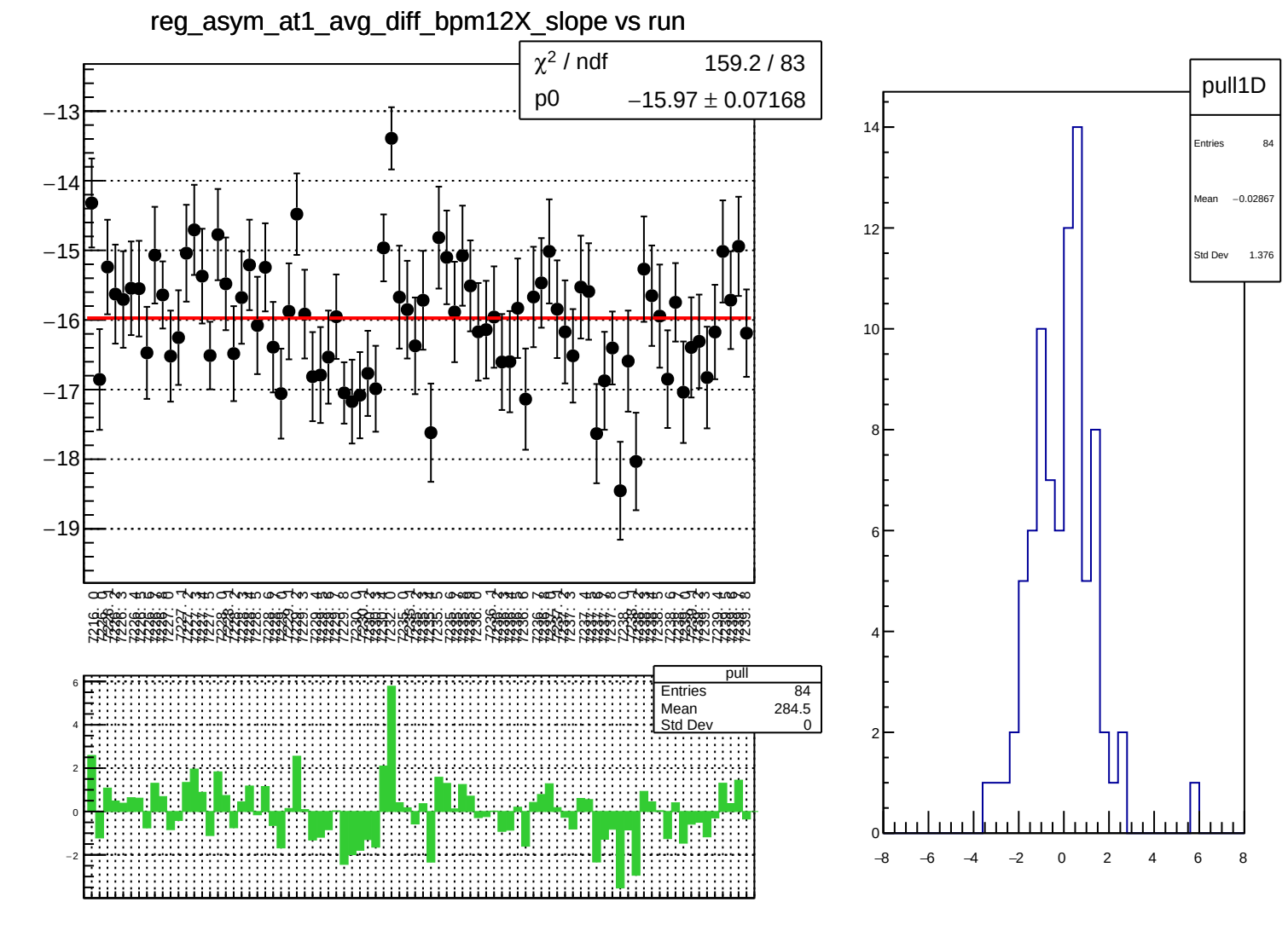

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 90.83 / 83
p0 9.691 ± 1.562
pull
Entries 84
Mean 10.38
Std Dev 0

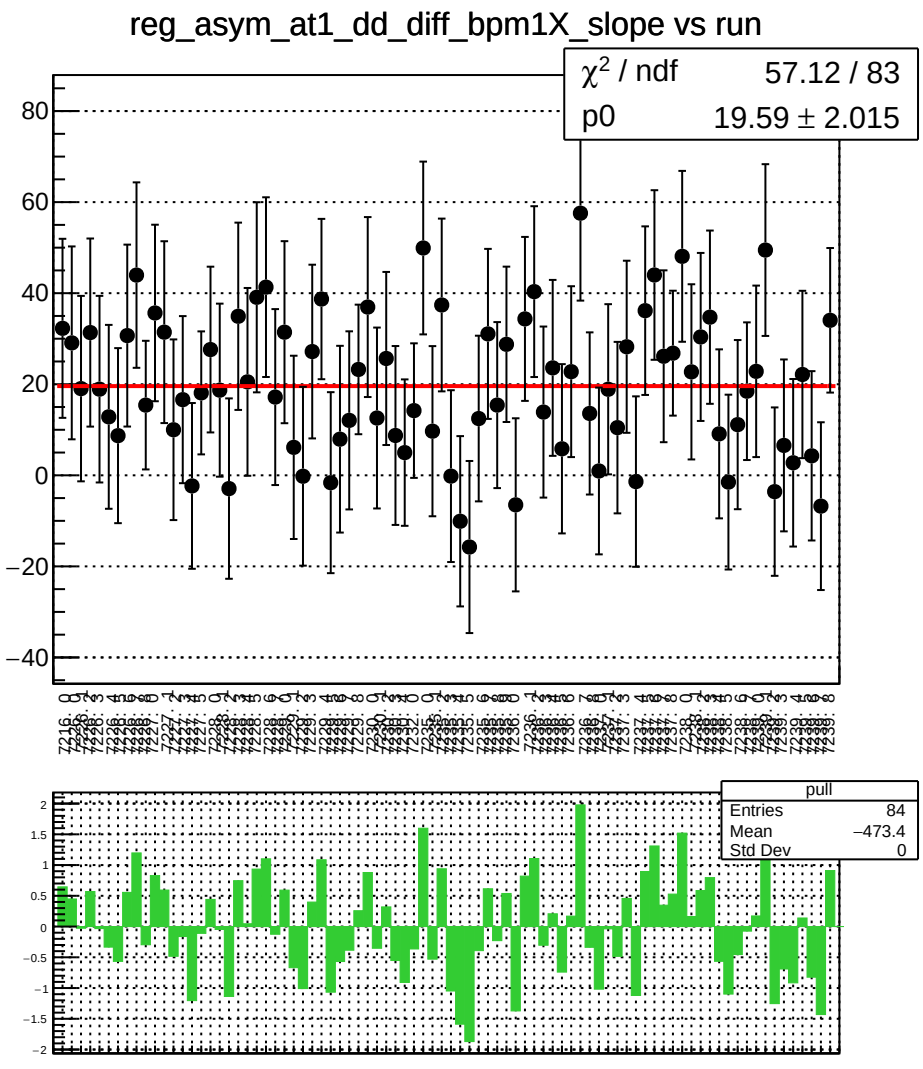

pull1D
Entries 84
Mean −0.04289
Std Dev 1.039

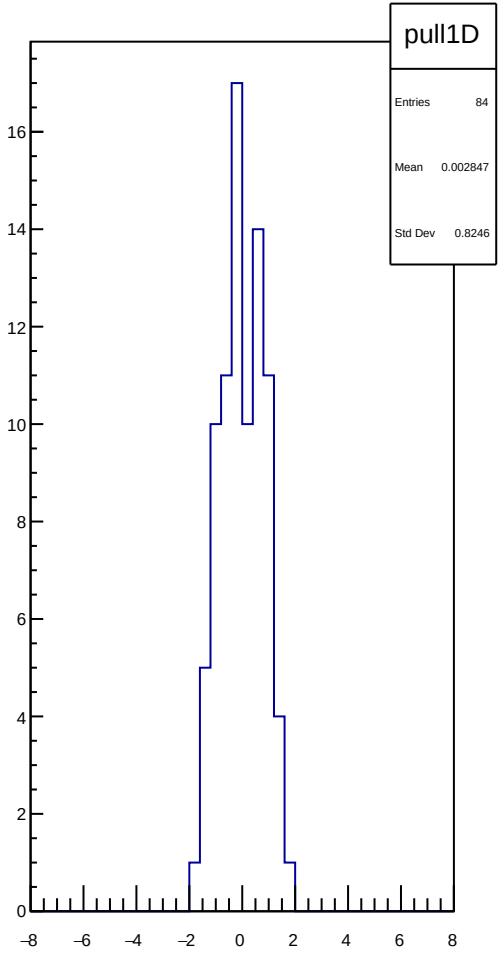

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 65.95 / 83
p0 22.73 ± 2.097
pull
Entries 84
Mean −75.19
Std Dev 0
pull1D
Entries 84
Mean −0.009857
Std Dev 0.886

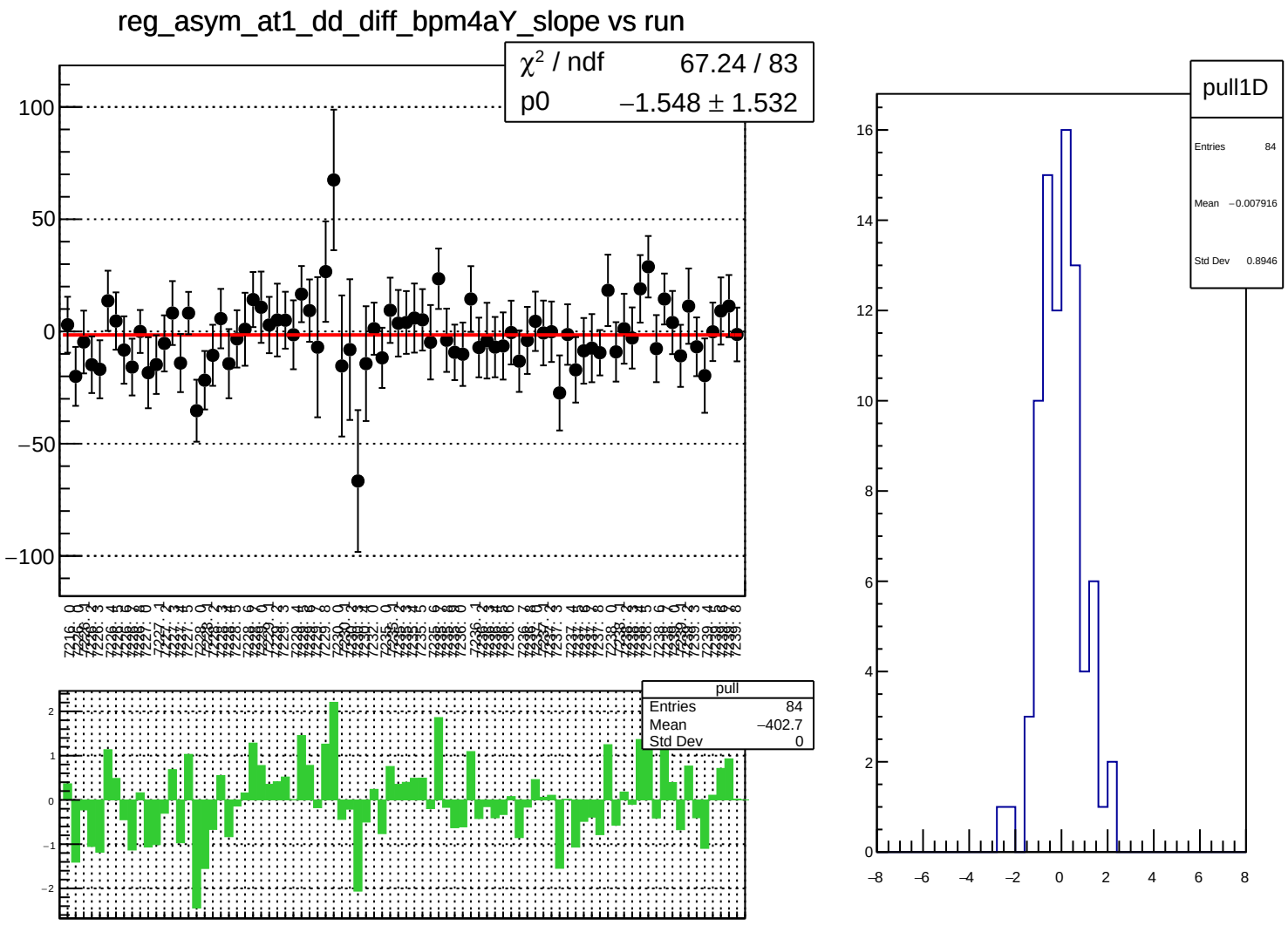

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 94.32 / 83
p0 −16.41 ± 1.711
pull
Entries 84
Mean 57.18
Std Dev 3.696

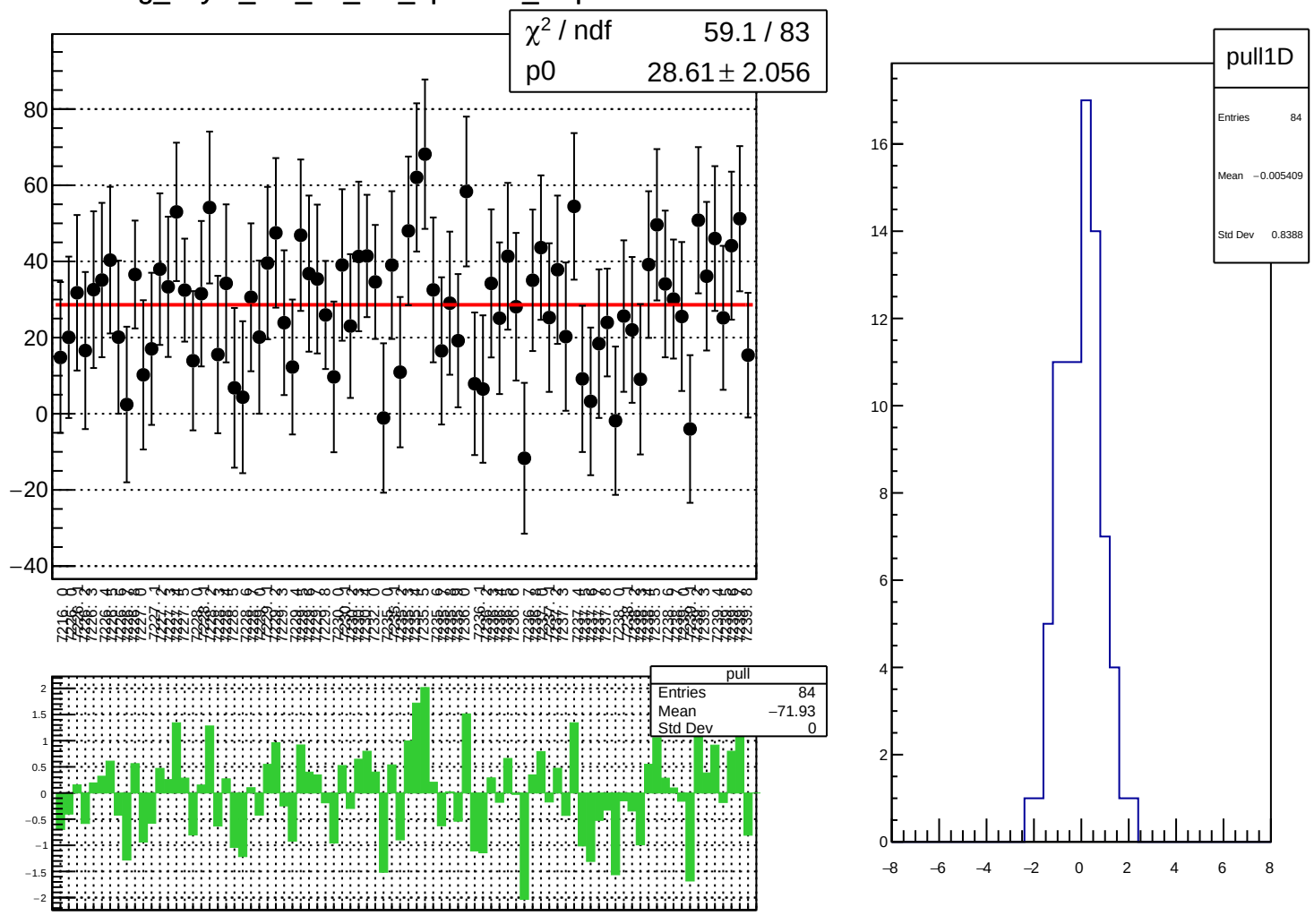

pull1D
Entries 84
Mean 0.03774
Std Dev 1.059

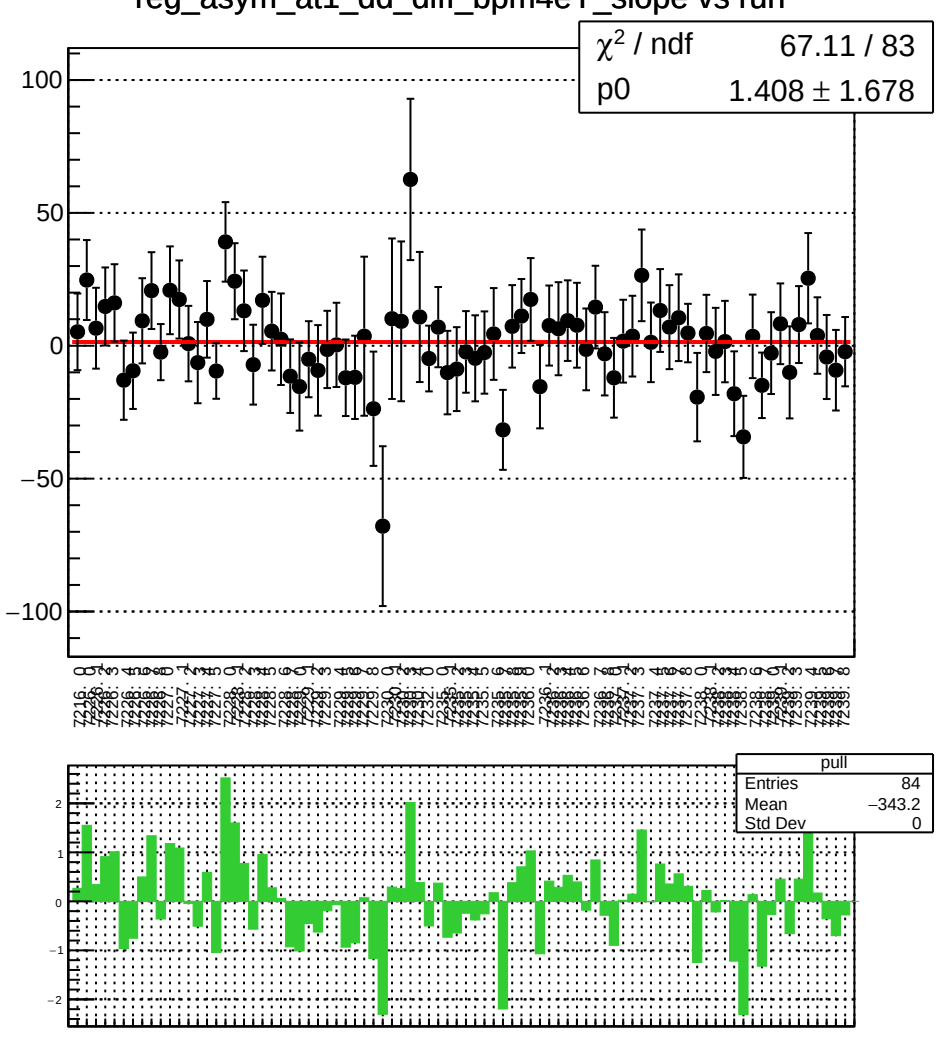

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 159.2 / 83
p0 −15.97 ± 0.07168
pull
Entries 84
Mean 284.5
Std Dev 0
pull1D
Entries 84
Mean −0.02867
Std Dev 1.376

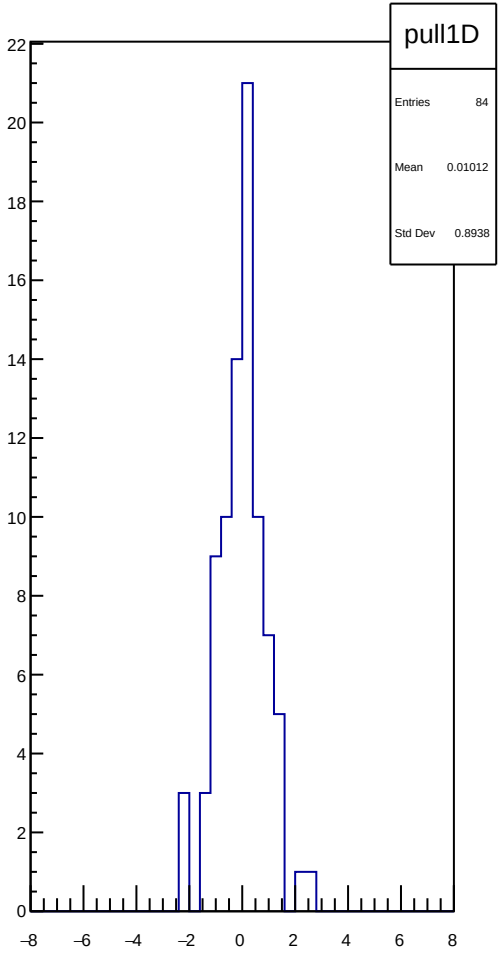

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 57.12 / 83
p0 19.59 ± 2.015
pull
Entries 84
Mean −473.4
Std Dev 0

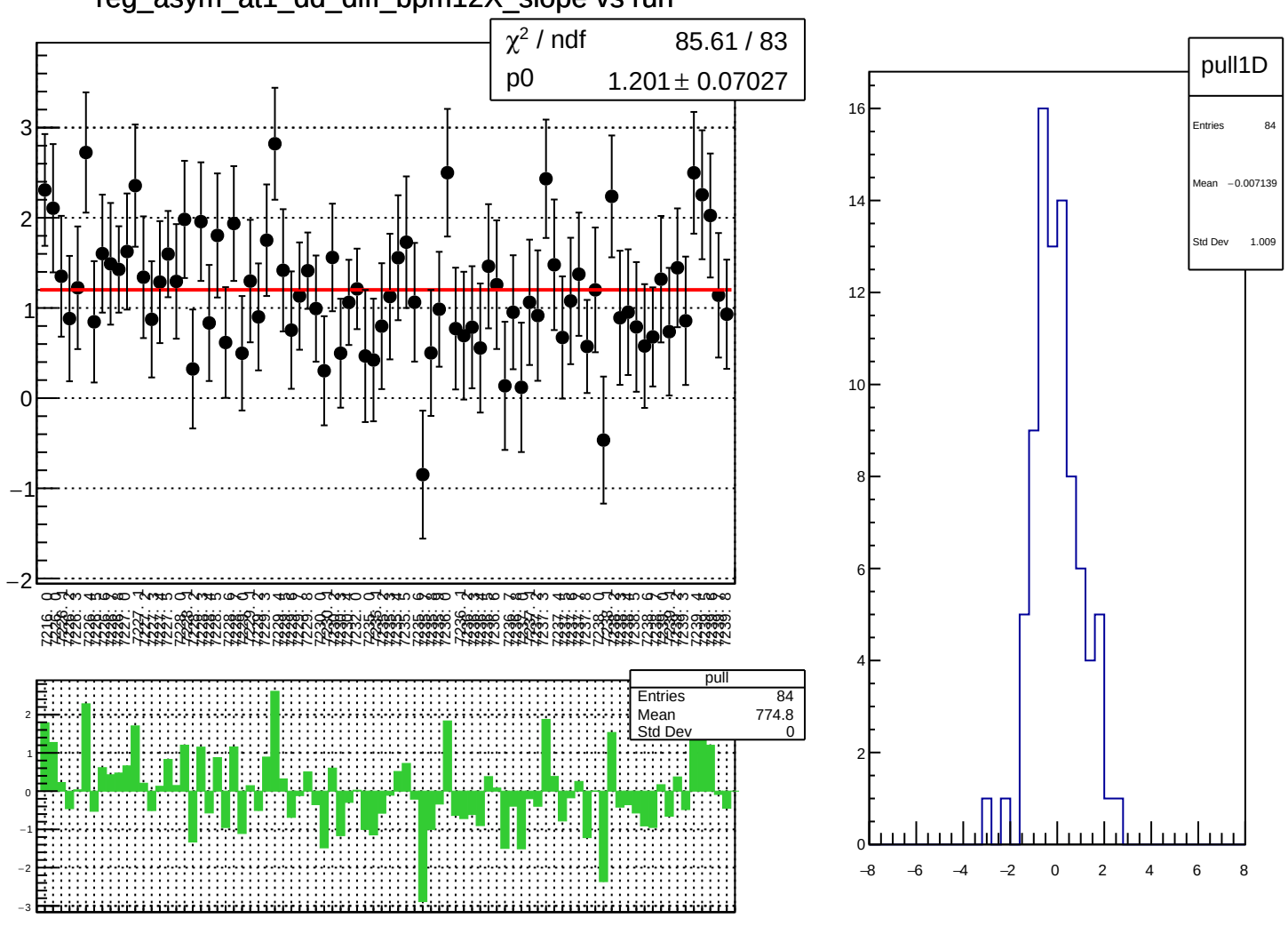

pull1D
Entries 84
Mean 0.002847
Std Dev 0.8246

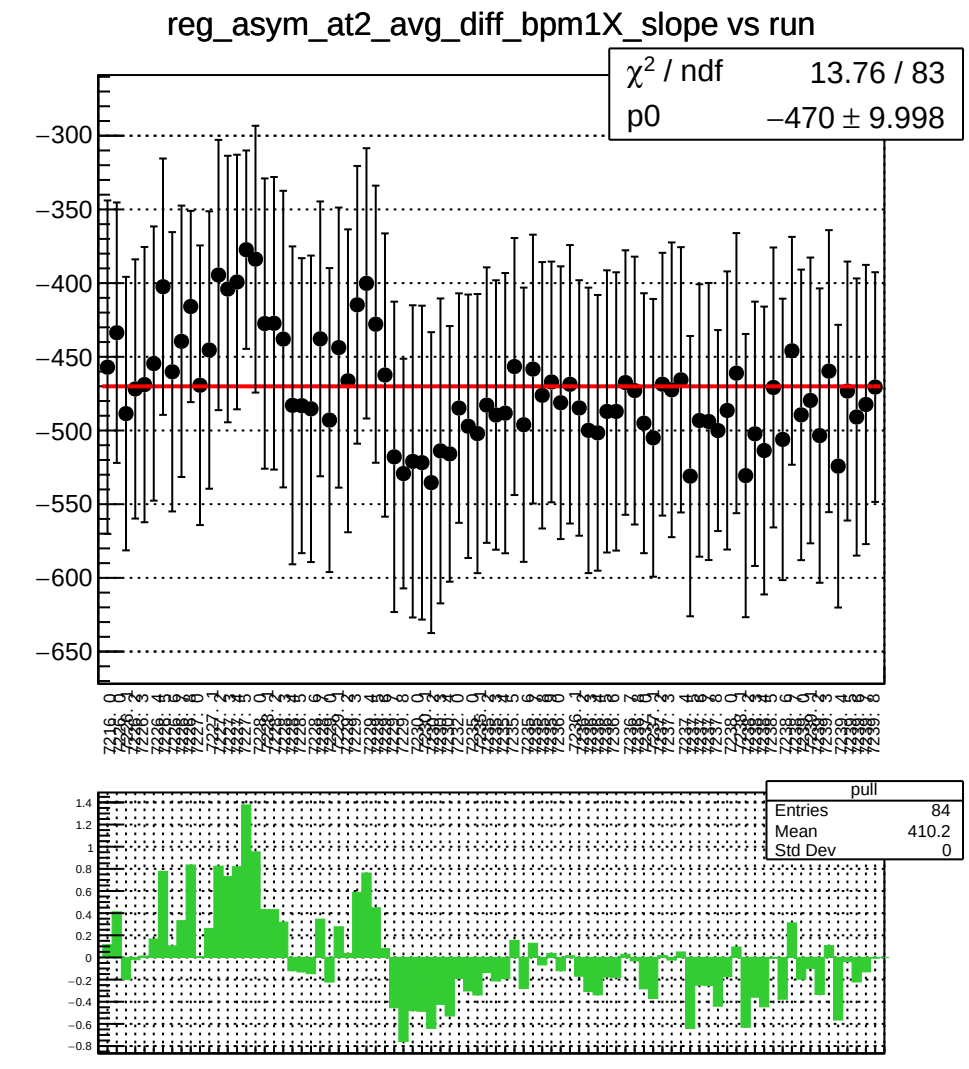

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 67.24 / 83
p0 −1.548 ± 1.532
100
50
0
−50
−100
pull
Entries 84
Mean −402.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.007916
Std Dev 0.8946
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

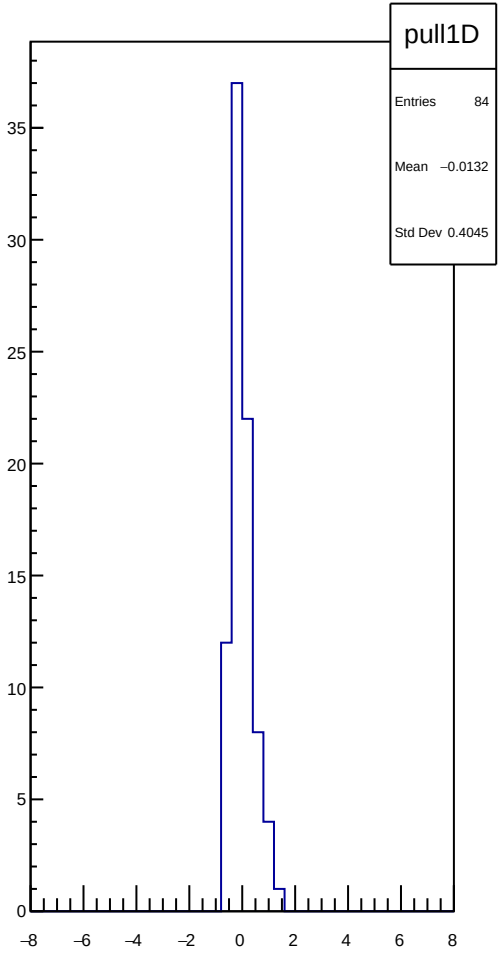

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 59.1 / 83
p0 28.61 ± 2.056
pull
Entries 84
Mean −71.93
Std Dev 0
pull1D
Entries 84
Mean −0.005409
Std Dev 0.8388

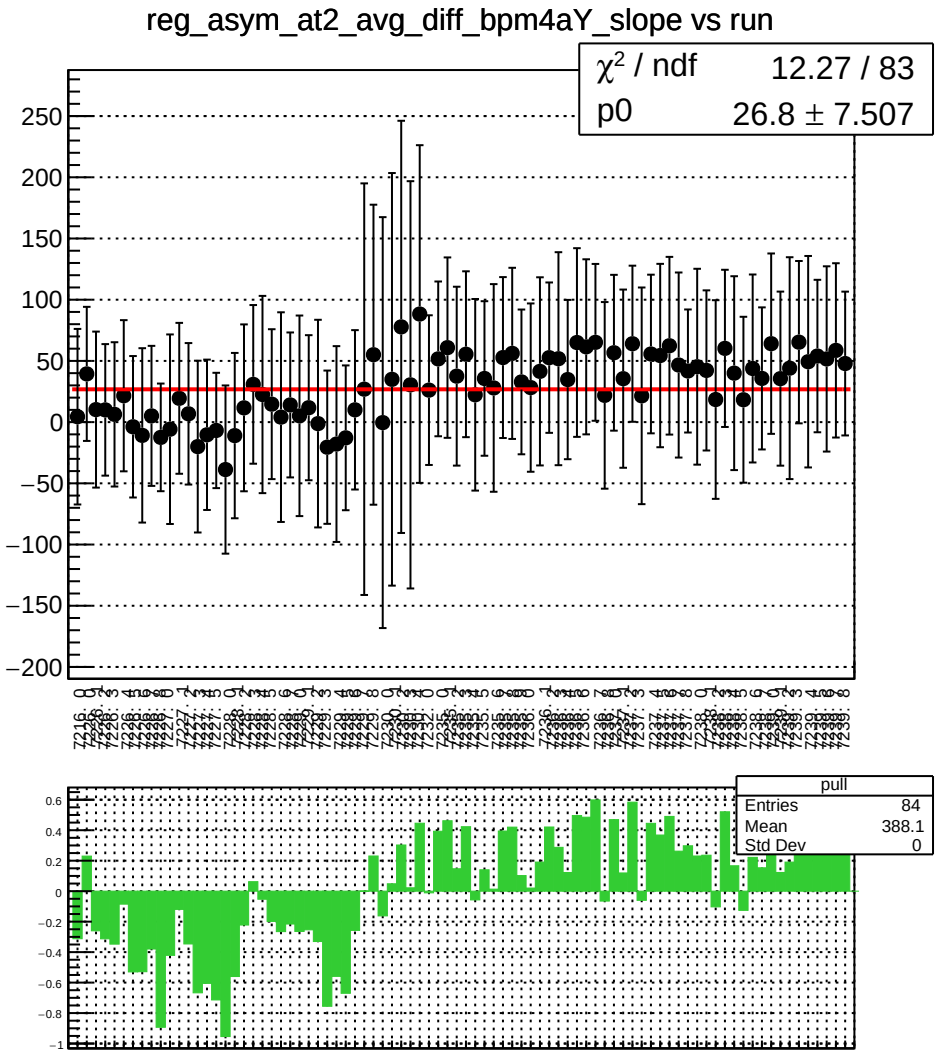

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 67.11 / 83
p0 1.408 ± 1.678
pull
Entries 84
Mean −343.2
Std Dev 0

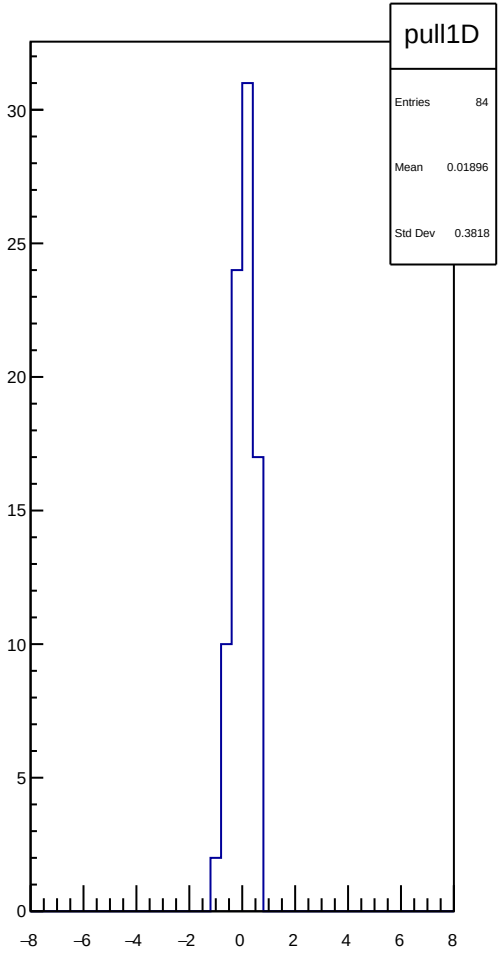

pull1D
Entries 84
Mean 0.01012
Std Dev 0.8938

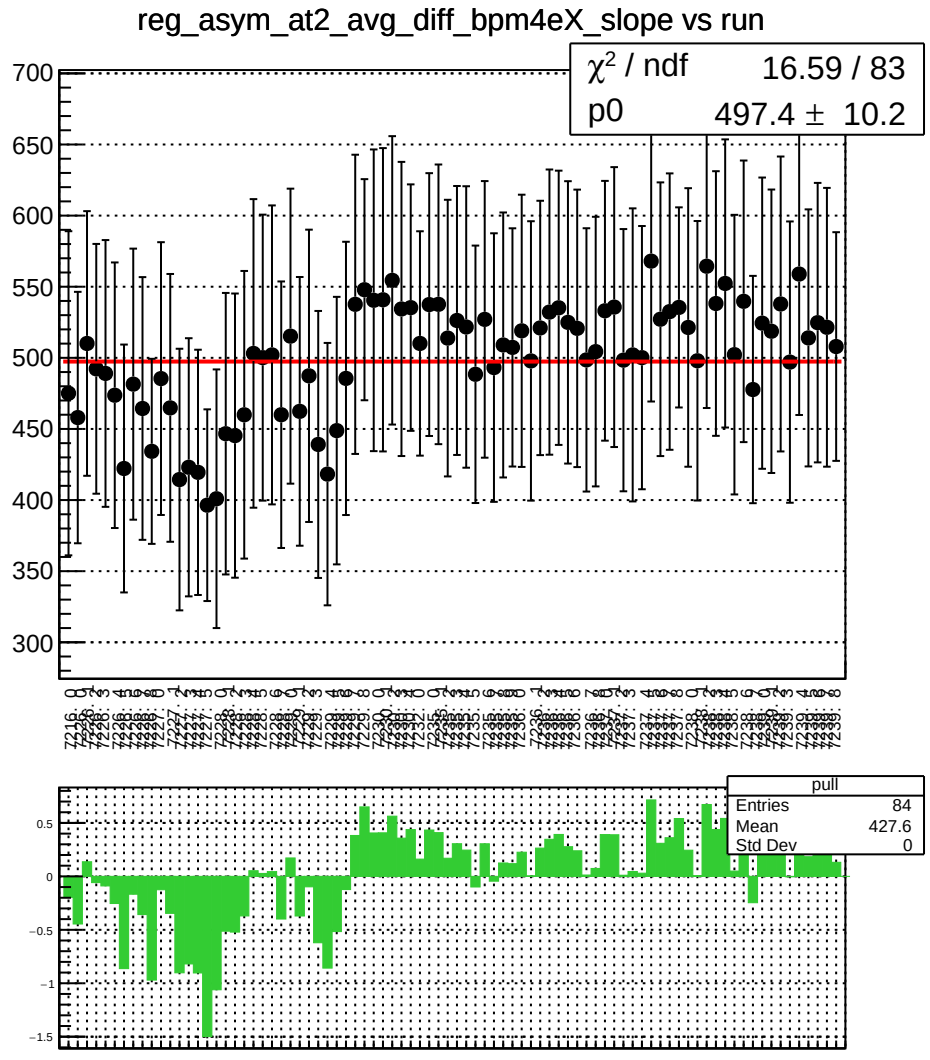

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 85.61 / 83
p0 1.201 ± 0.07027
pull
Entries 84
Mean 774.8
Std Dev 0
pull1D
Entries 84
Mean −0.007139
Std Dev 1.009

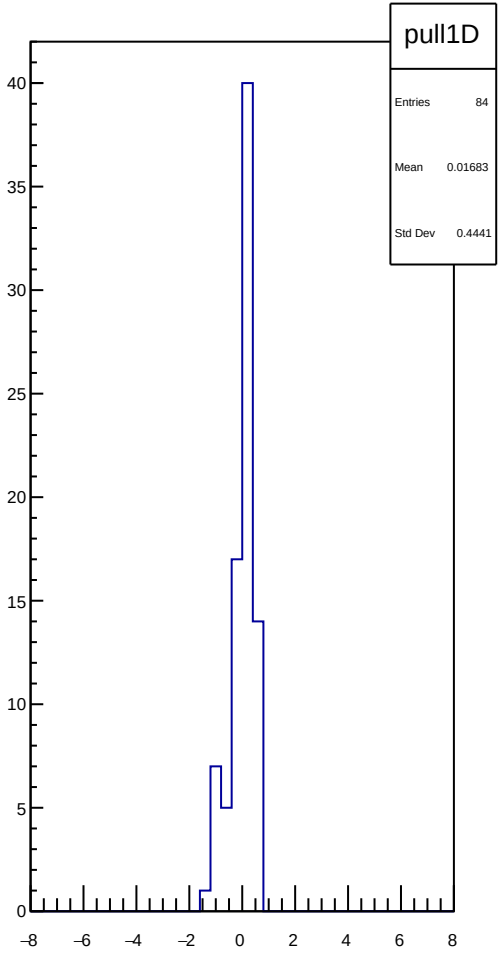

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 13.76 / 83
p0 −470 ± 9.998
pull
Entries 84
Mean 410.2
Std Dev 0

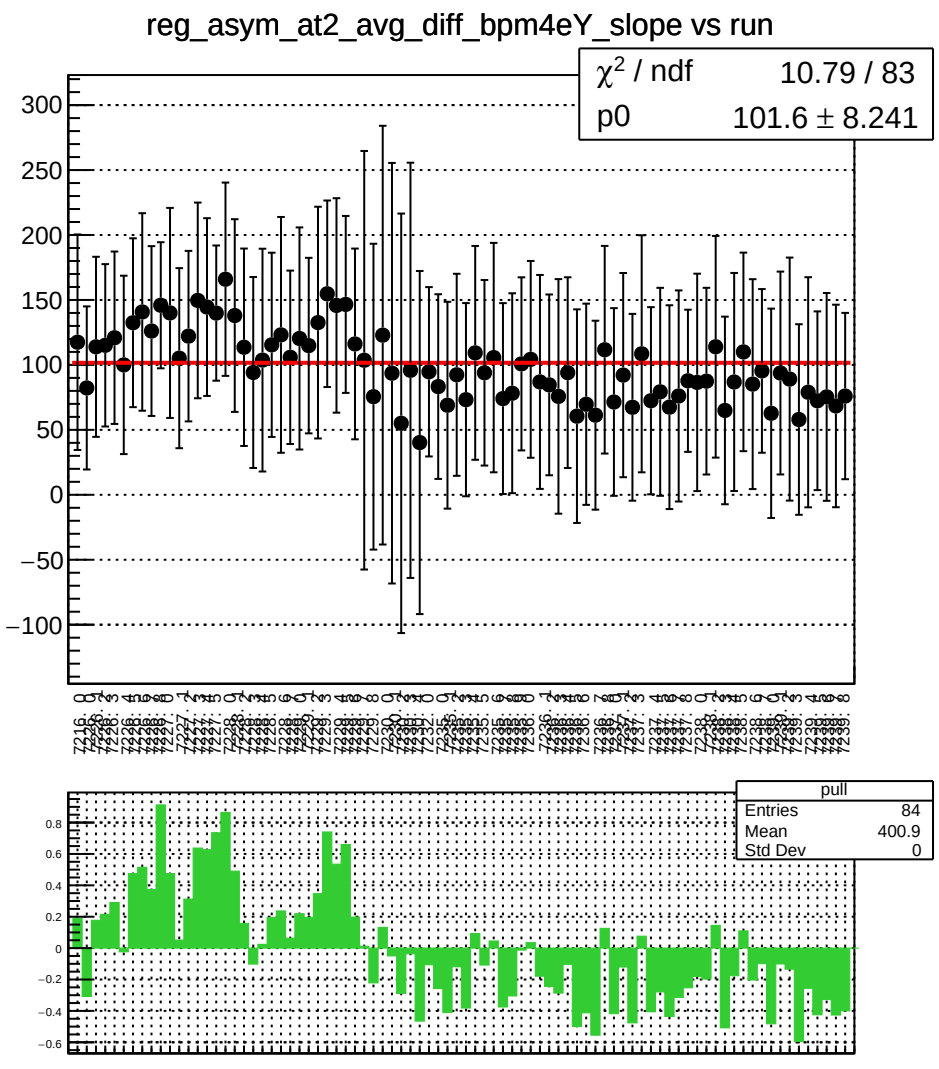

pull1D
Entries 84
Mean −0.0132
Std Dev 0.4045

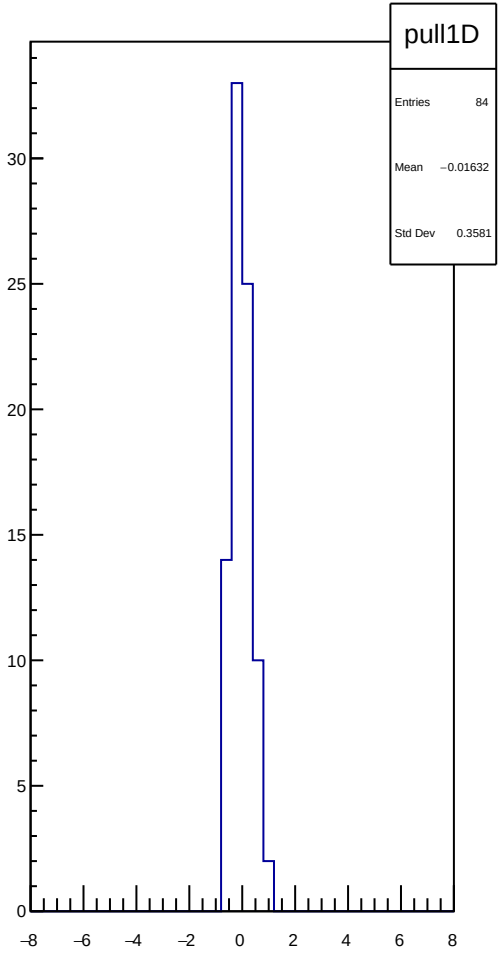

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.27 / 83
p0 26.8 ± 7.507
pull
Entries 84
Mean 388.1
Std Dev 0

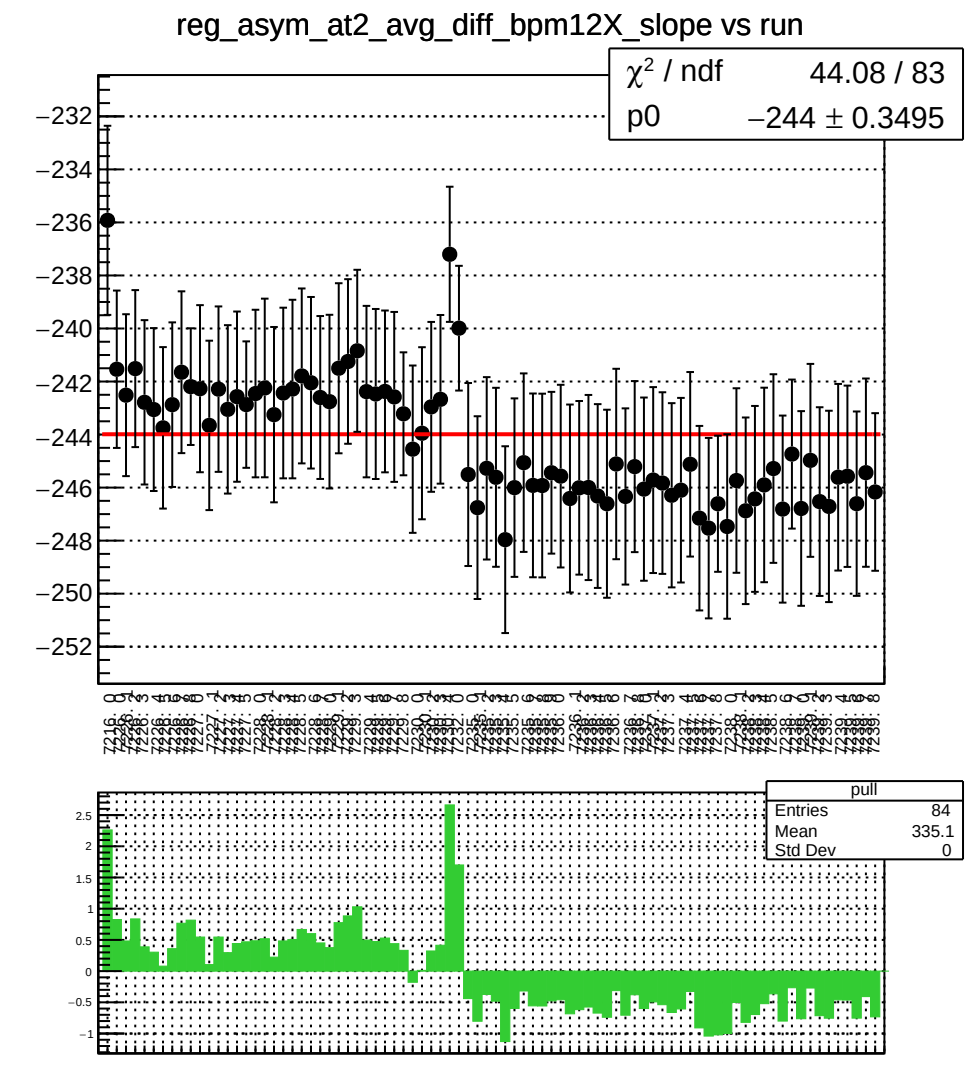

pull1D
Entries 84
Mean 0.01896
Std Dev 0.3818

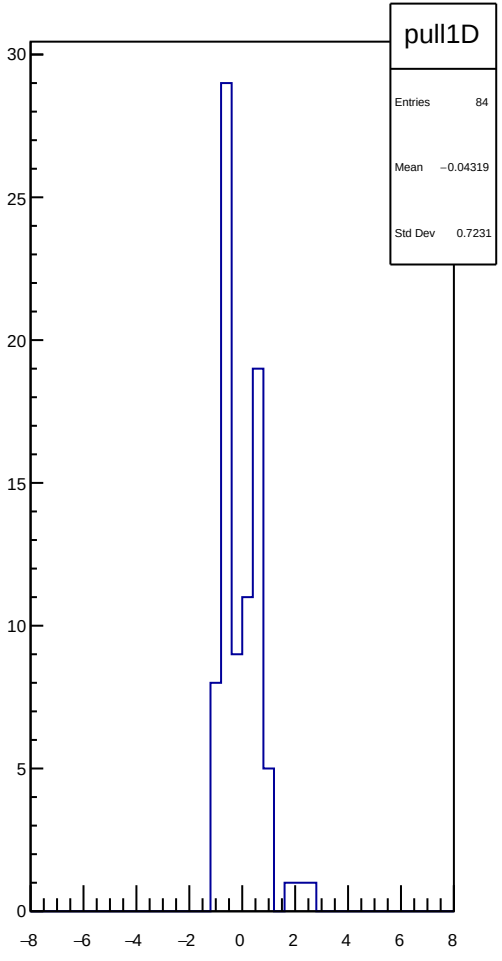

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 16.59 / 83
p0 497.4 ± 10.2
pull
Entries 84
Mean 427.6
Std Dev 0

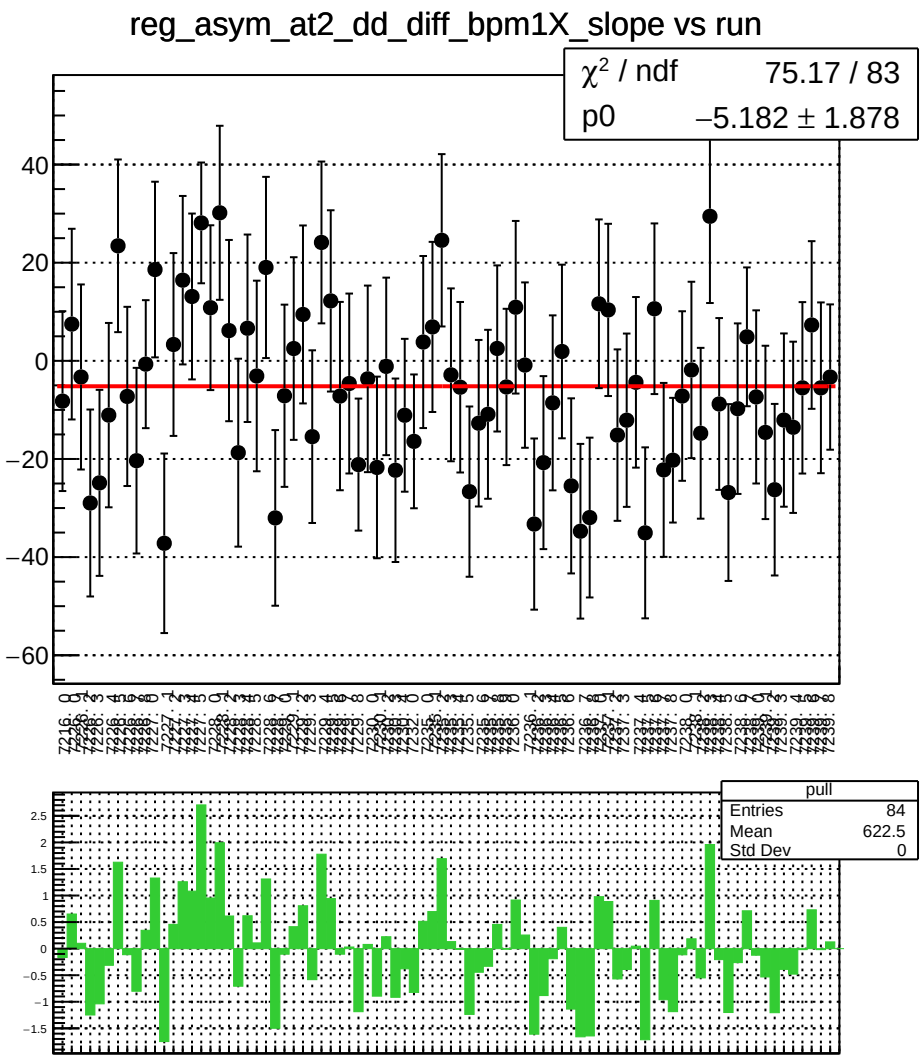

pull1D
Entries 84
Mean 0.01683
Std Dev 0.4441

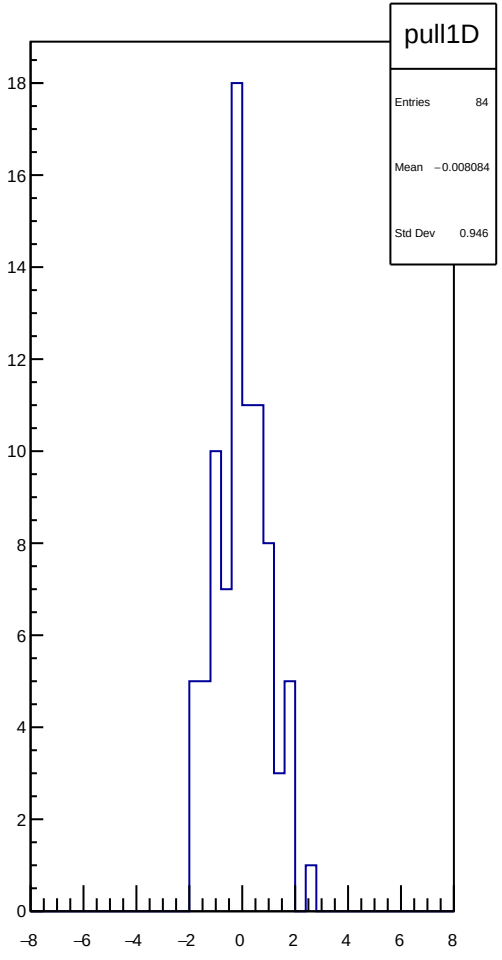

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.79 / 83
p0 101.6 ± 8.241
pull
Entries 84
Mean 400.9
Std Dev 0

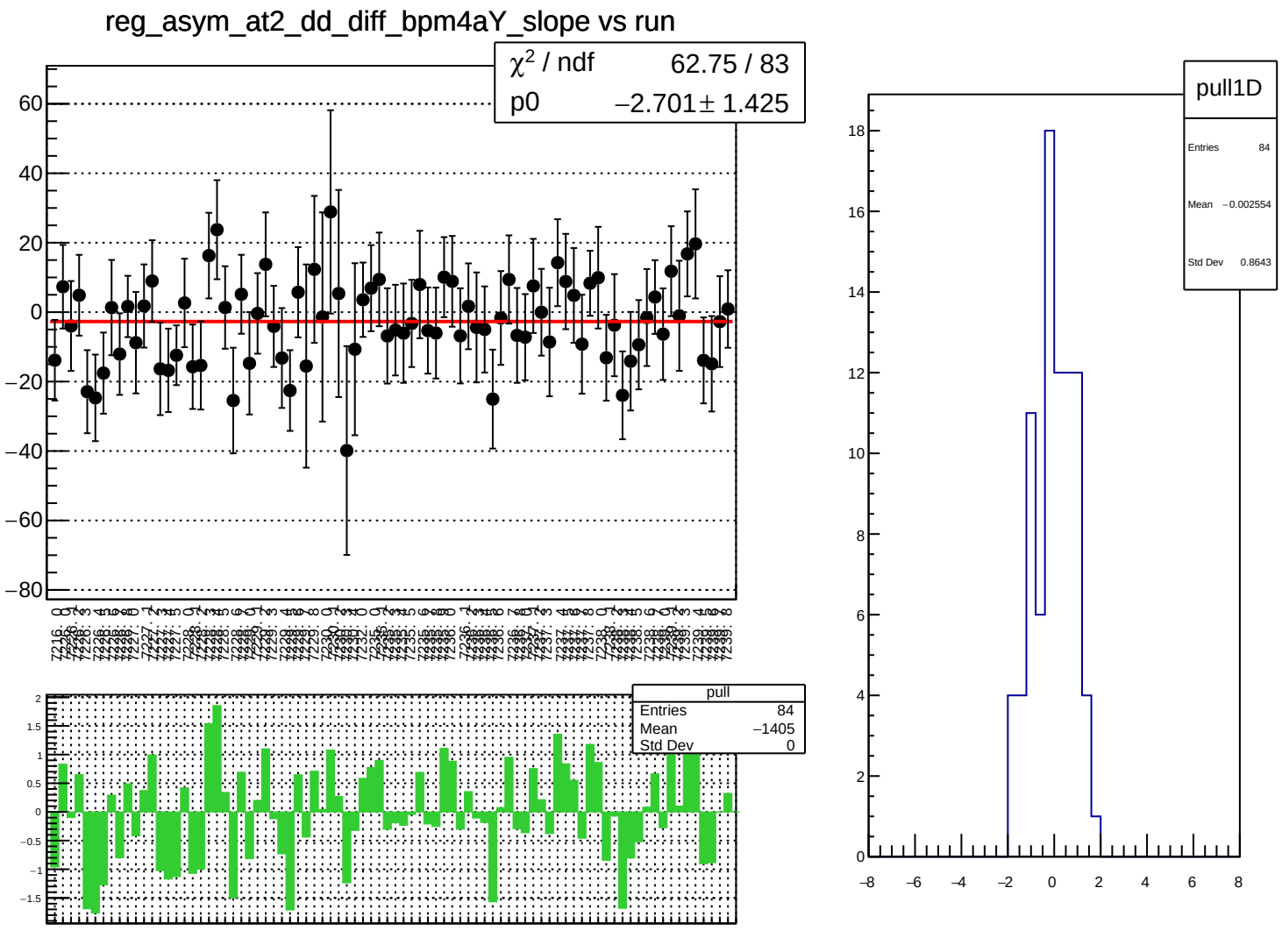

pull1D
Entries 84
Mean −0.01632
Std Dev 0.3581

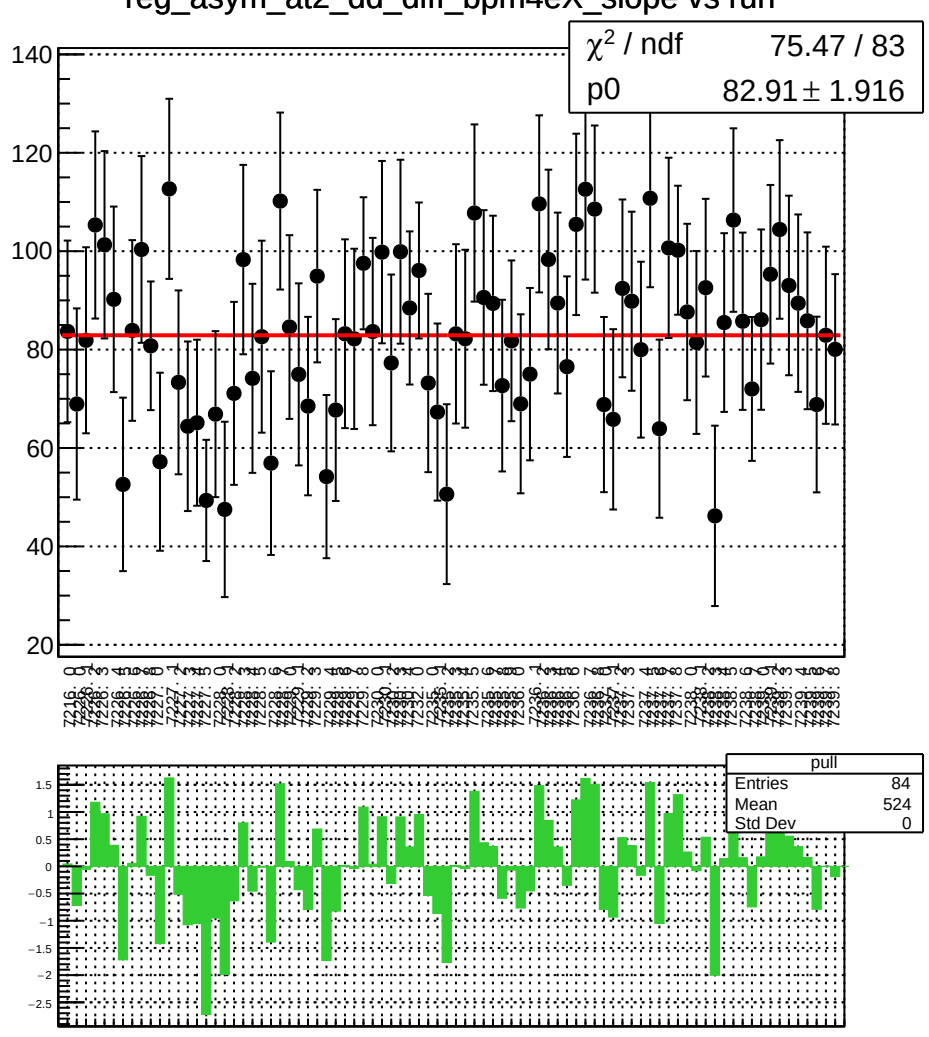

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 44.08 / 83
p0 −244 ± 0.3495
pull
Entries 84
Mean 335.1
Std Dev 0

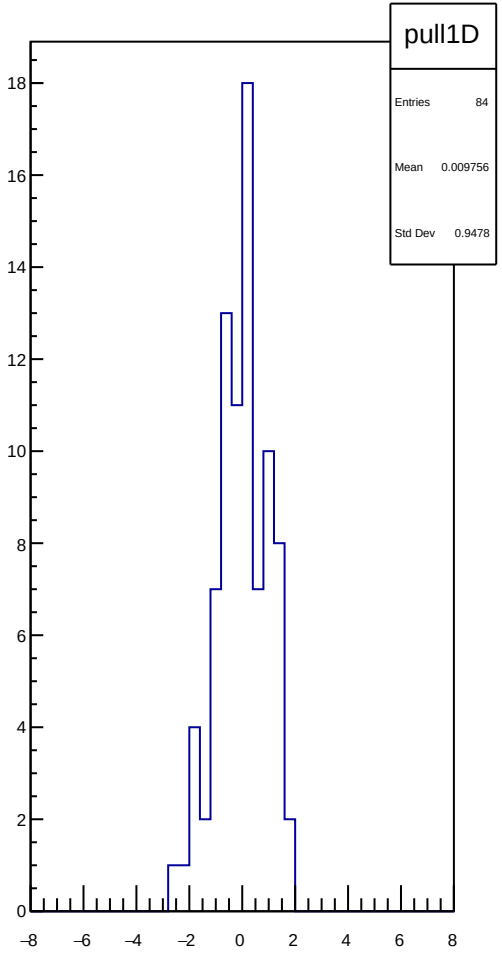

pull1D
Entries 84
Mean −0.04319
Std Dev 0.7231

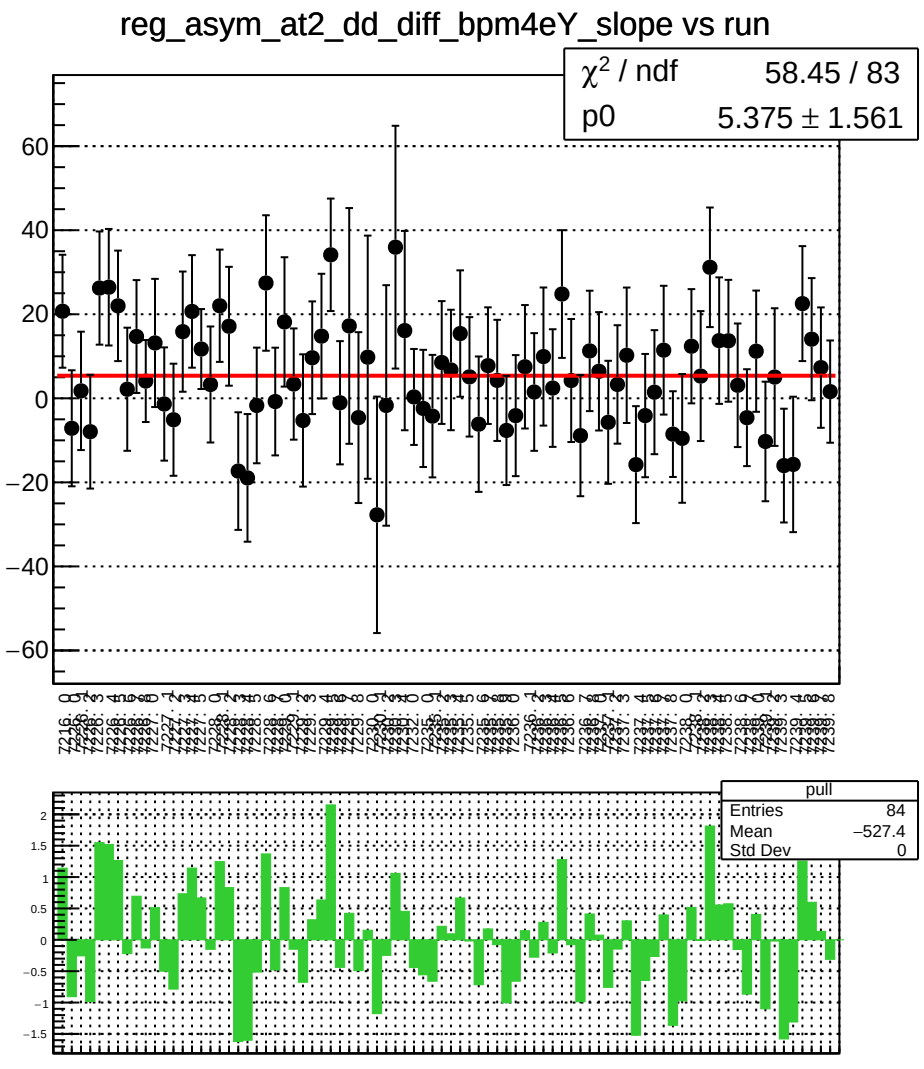

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 75.17 / 83
p0 −5.182 ± 1.878
pull
Entries 84
Mean 622.5
Std Dev 0

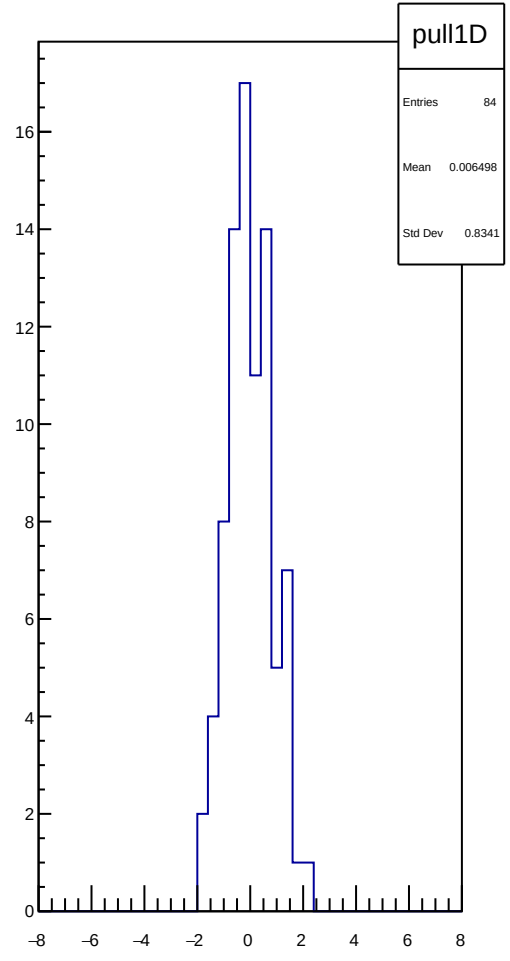

pull1D
Entries 84
Mean −0.008084
Std Dev 0.946

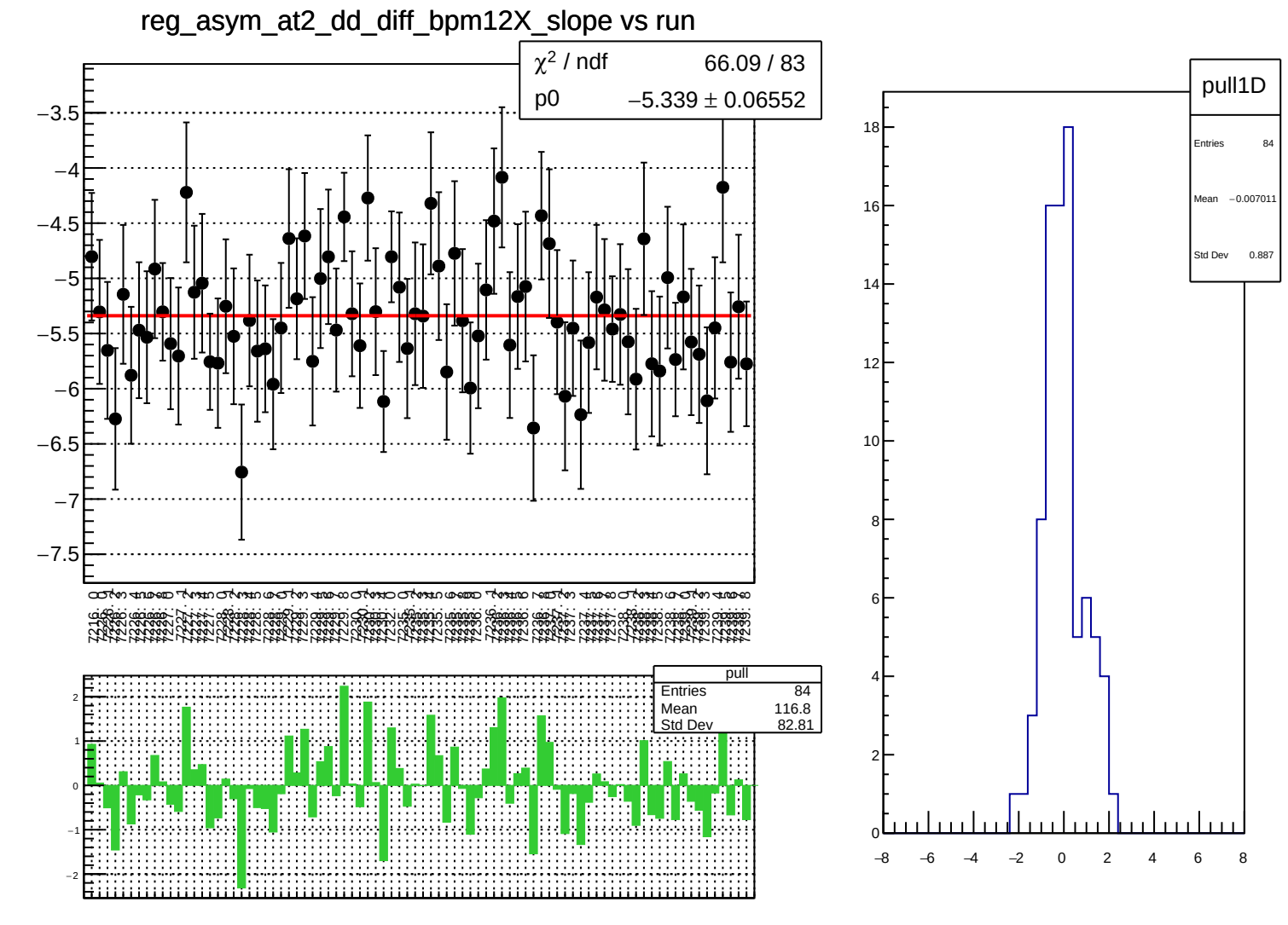

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 62.75 / 83
p0 −2.701 ± 1.425
pull
Entries 84
Mean −1405
Std Dev 0
pull1D
Entries 84
Mean −0.002554
Std Dev 0.8643

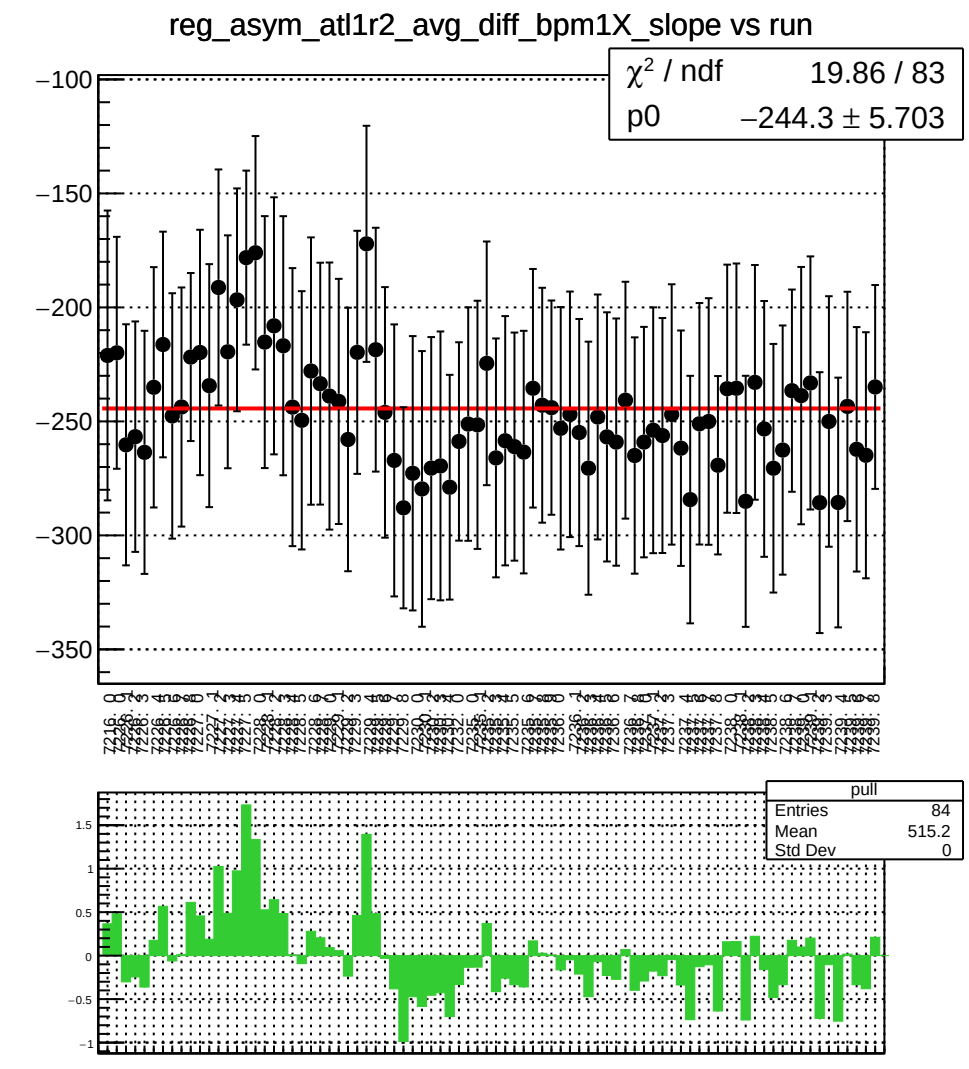

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 75.47 / 83
p0 82.91 ± 1.916
pull
Entries 84
Mean 524
Std Dev 0

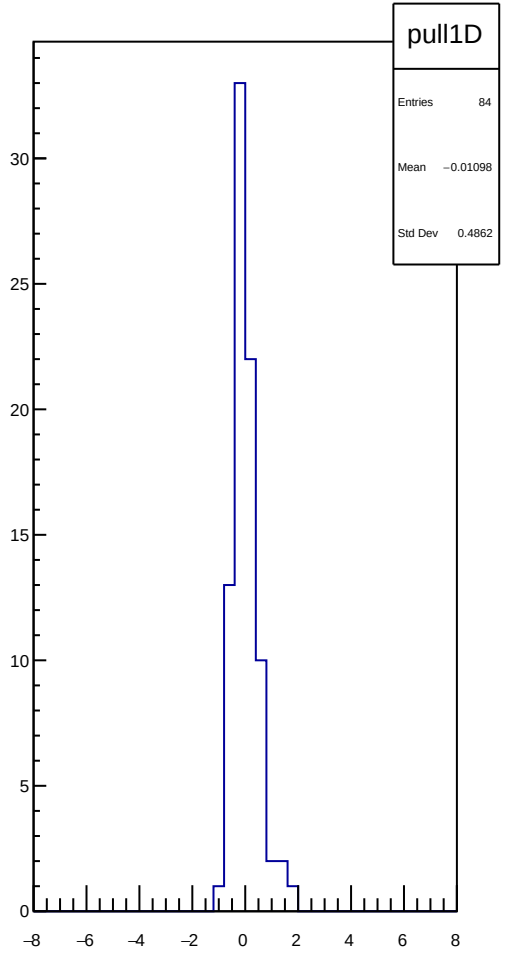

pull1D
Entries 84
Mean 0.009756
Std Dev 0.9478

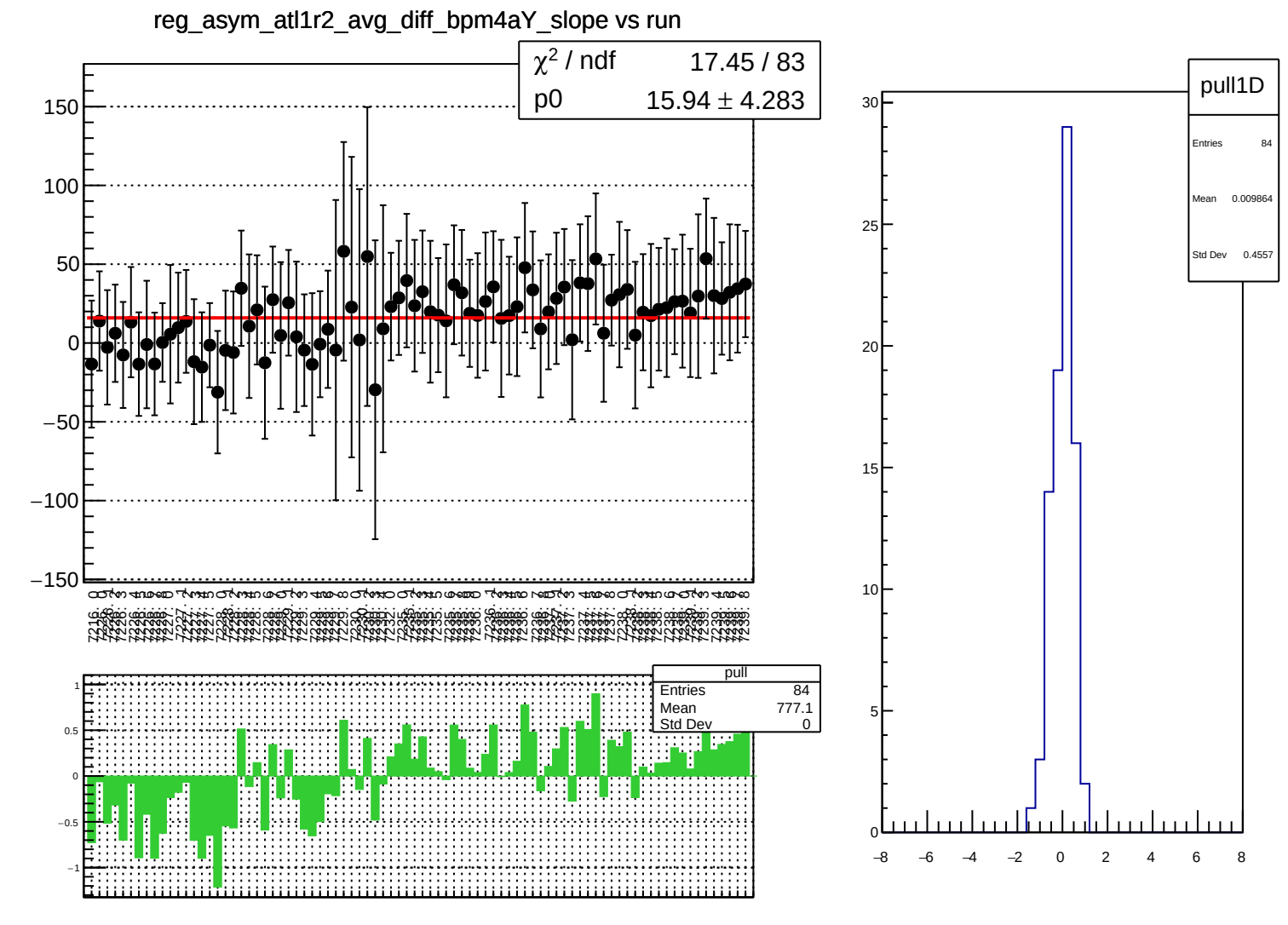

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 58.45 / 83
p0 5.375 ± 1.561
pull
Entries 84
Mean −527.4
Std Dev 0

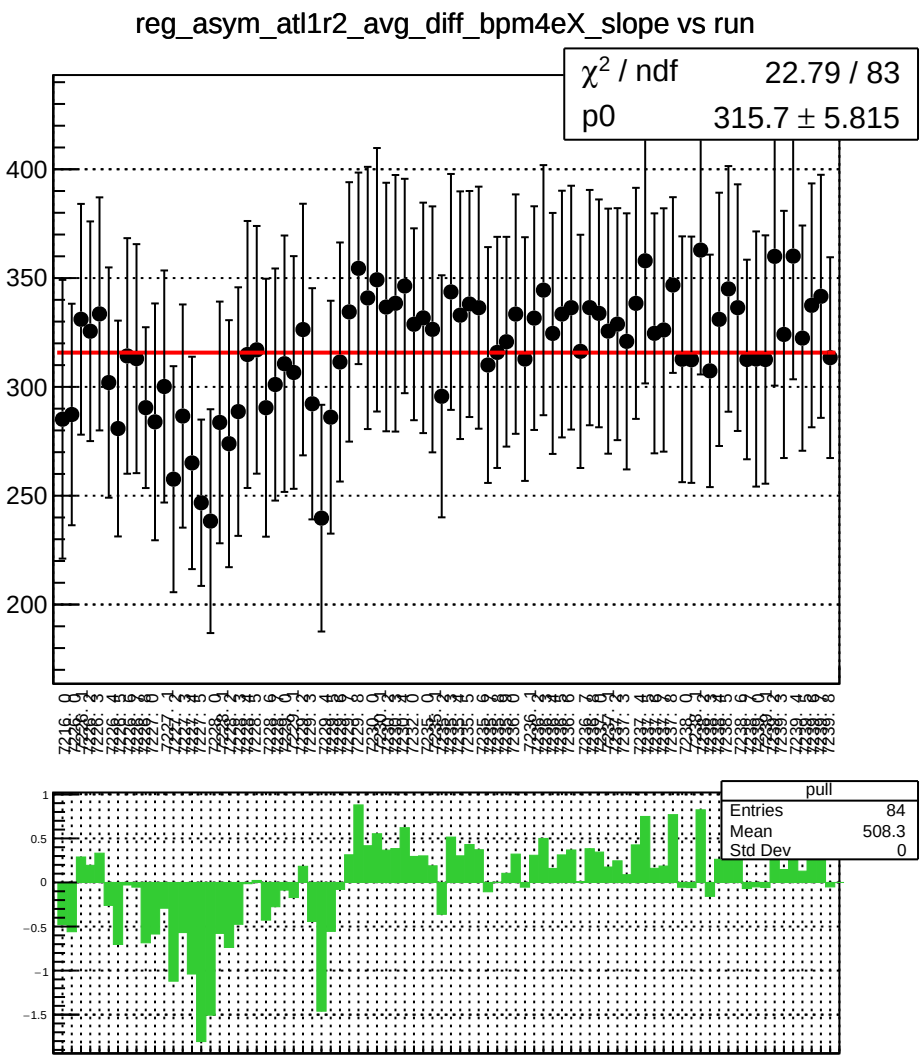

pull1D
Entries 84
Mean 0.006498
Std Dev 0.8341

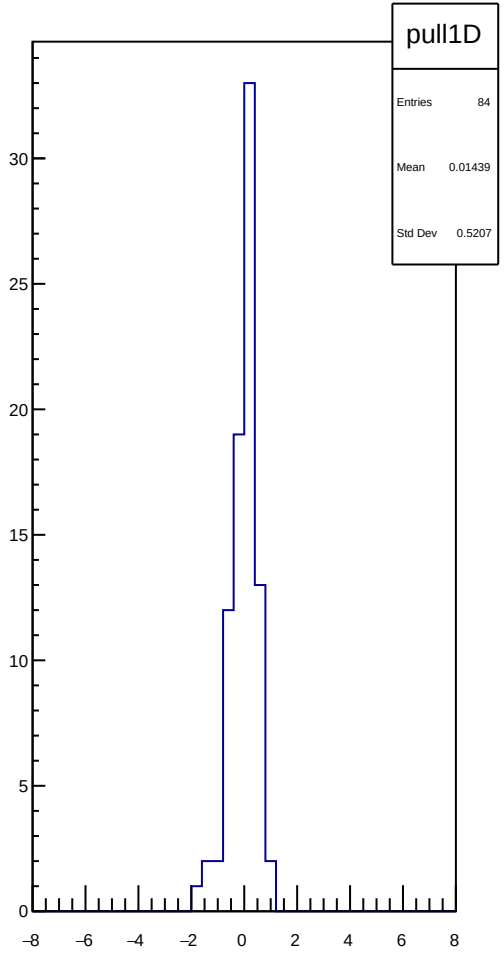

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 66.09 / 83
p0 −5.339 ± 0.06552
pull
Entries 84
Mean 116.8
Std Dev 82.81
pull1D
Entries 84
Mean −0.007011
Std Dev 0.887

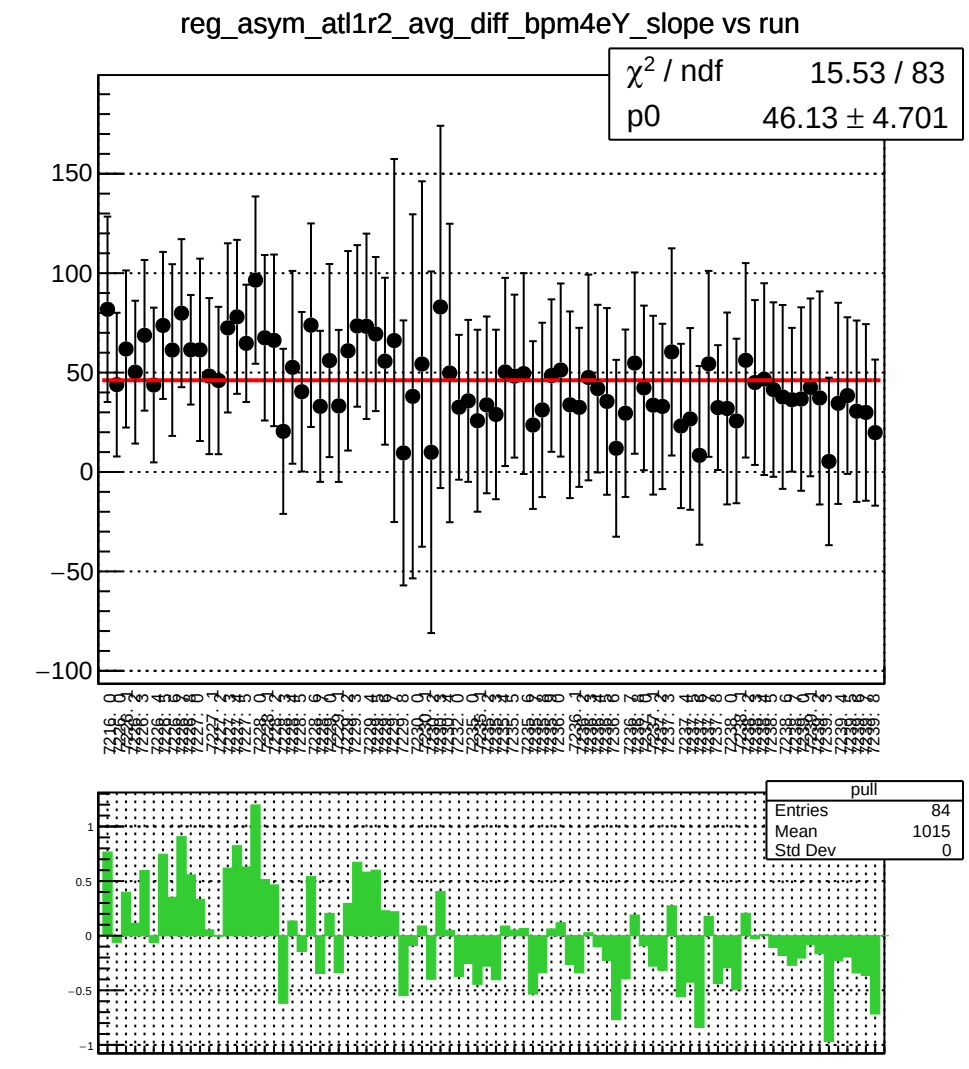

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 19.86 / 83
p0 −244.3 ± 5.703
−100
−150
−200
−250
−300
−350
pull
Entries 84
Mean 515.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1

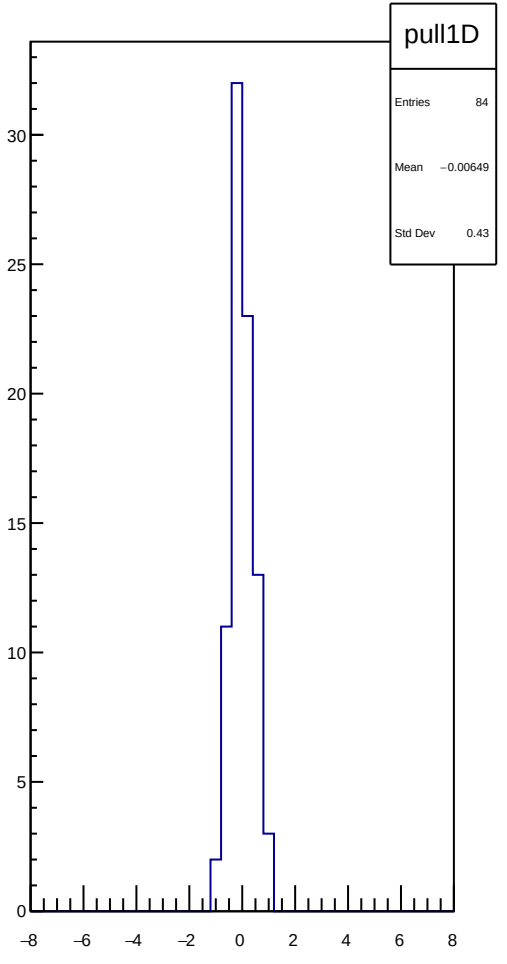

pull1D
Entries 84
Mean −0.01098
Std Dev 0.4862
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

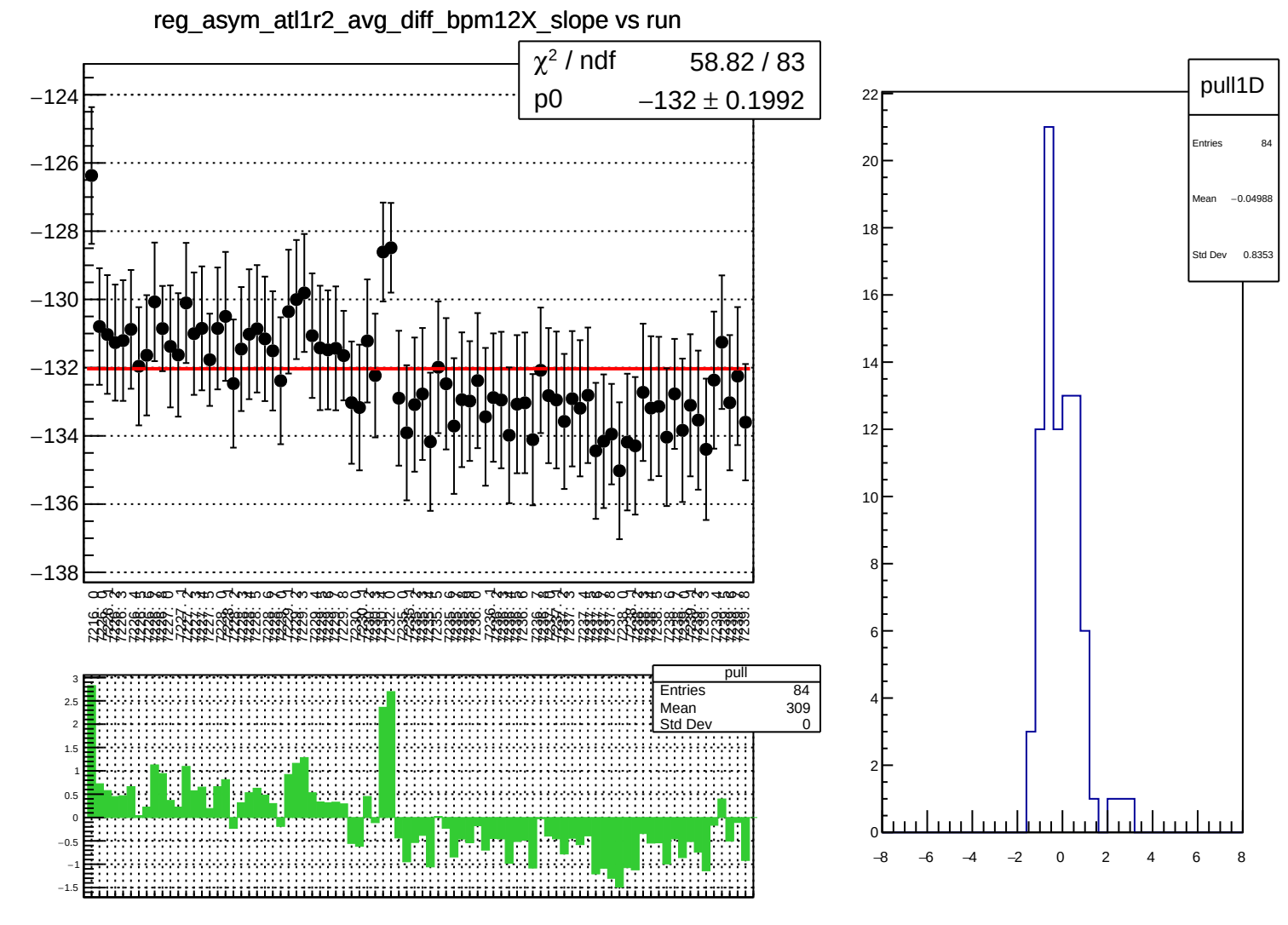

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 17.45 / 83
p0 15.94 ± 4.283
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean 777.1
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 84
Mean 0.009864
Std Dev 0.4557
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

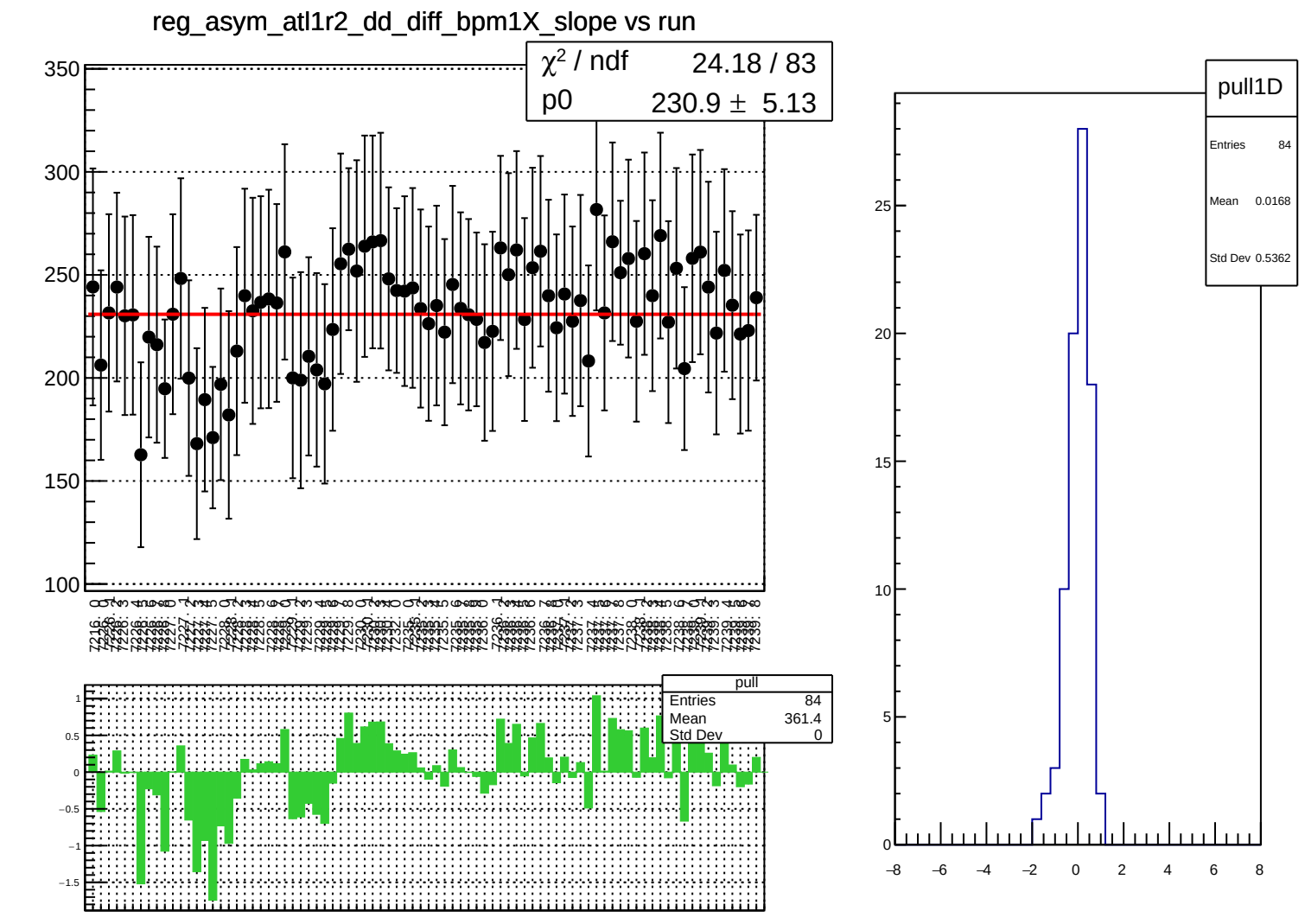

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 22.79 / 83
p0 315.7 ± 5.815
400
350
300
250
200
pull
Entries 84
Mean 508.3
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

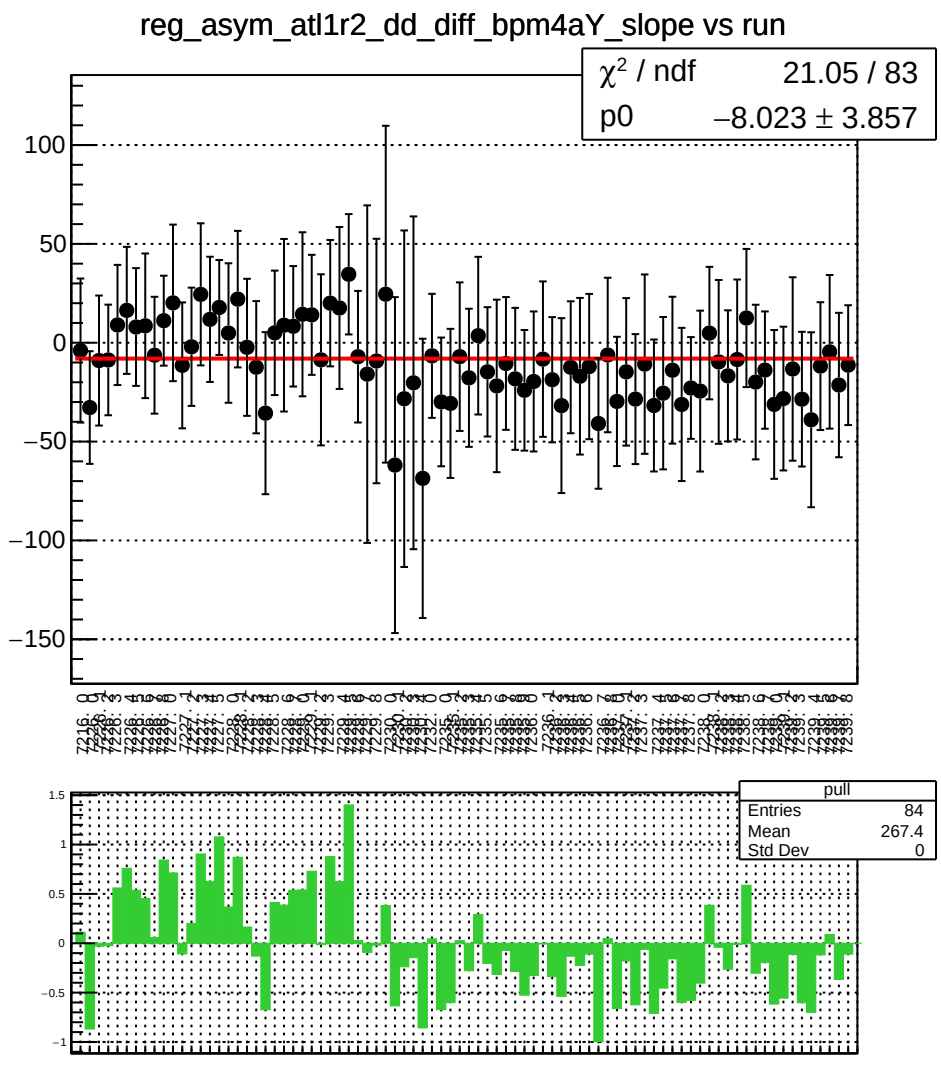

pull1D
Entries 84
Mean 0.01439
Std Dev 0.5207
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

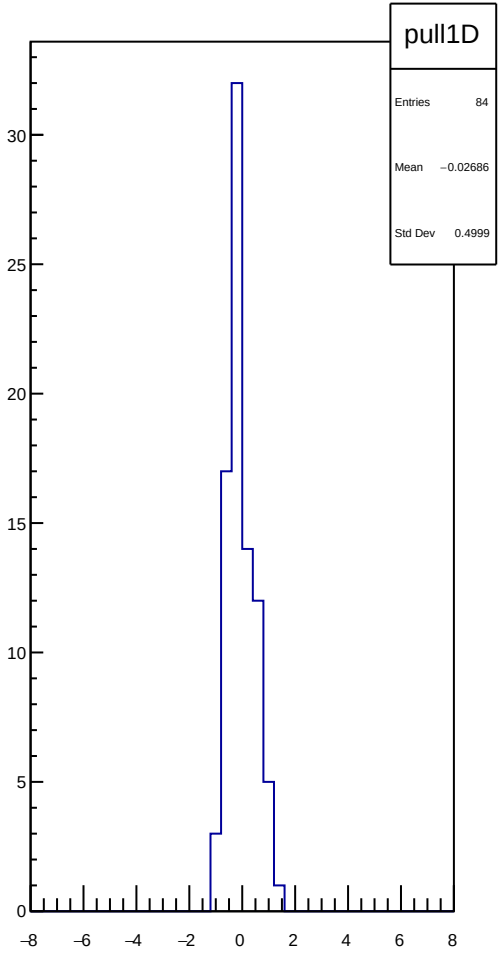

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 15.53 / 83
p0 46.13 ± 4.701
150
100
50
0
−50
−100
pull
Entries 84
Mean 1015
Std Dev 0
1
0.5
0
−0.5
−1

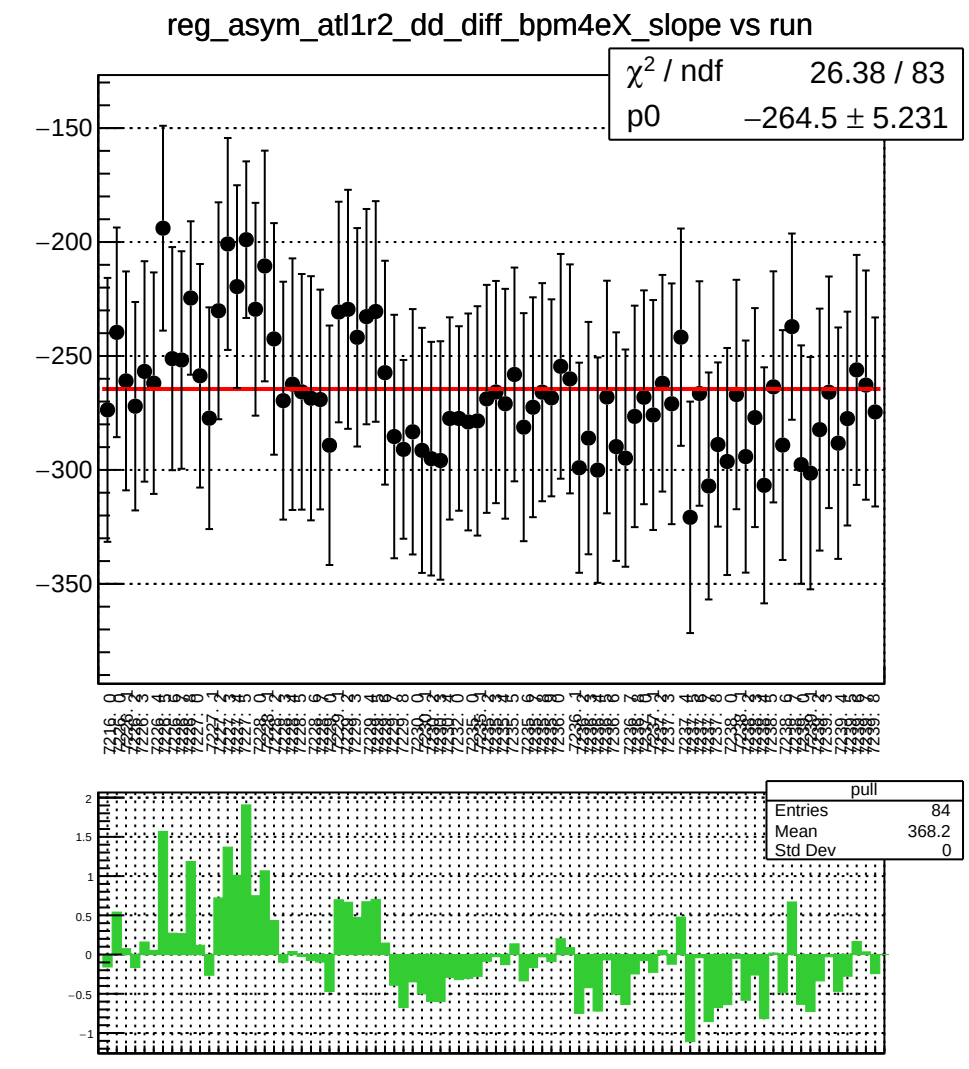

pull1D
Entries 84
Mean −0.00649
Std Dev 0.43
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

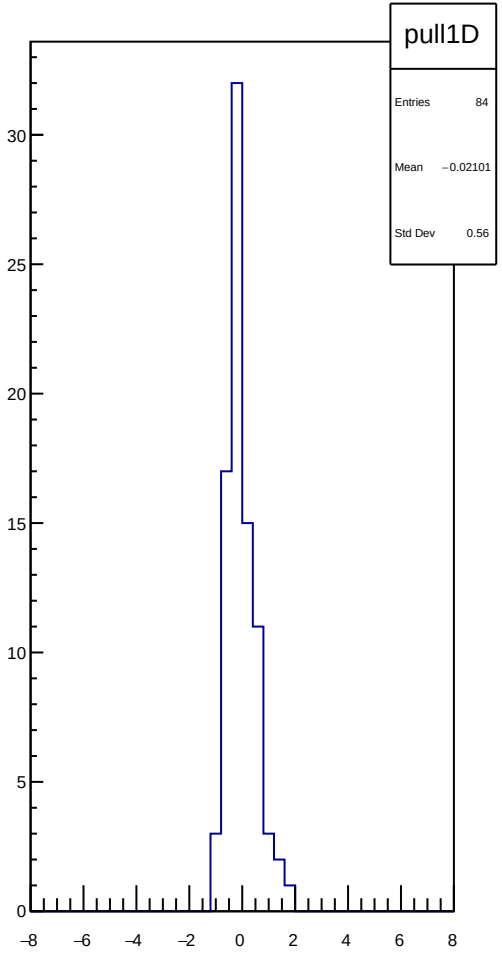

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 58.82 / 83
p0 −132 ± 0.1992
pull
Entries 84
Mean 309
Std Dev 0
pull1D
Entries 84
Mean −0.04988
Std Dev 0.8353

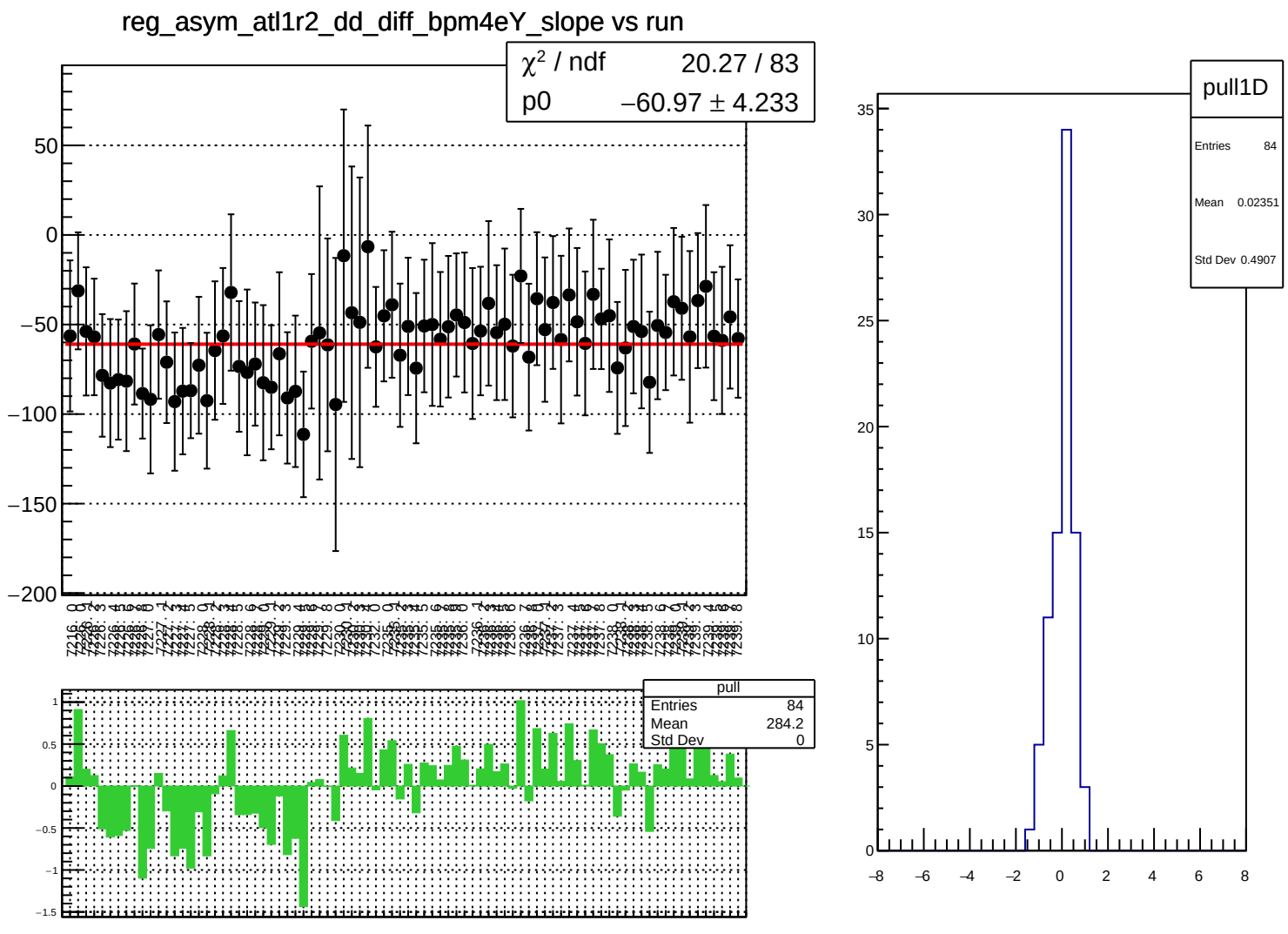

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 24.18 / 83
p0 230.9 ± 5.13
pull
Entries 84
Mean 361.4
Std Dev 0
pull1D
Entries 84
Mean 0.0168
Std Dev 0.5362

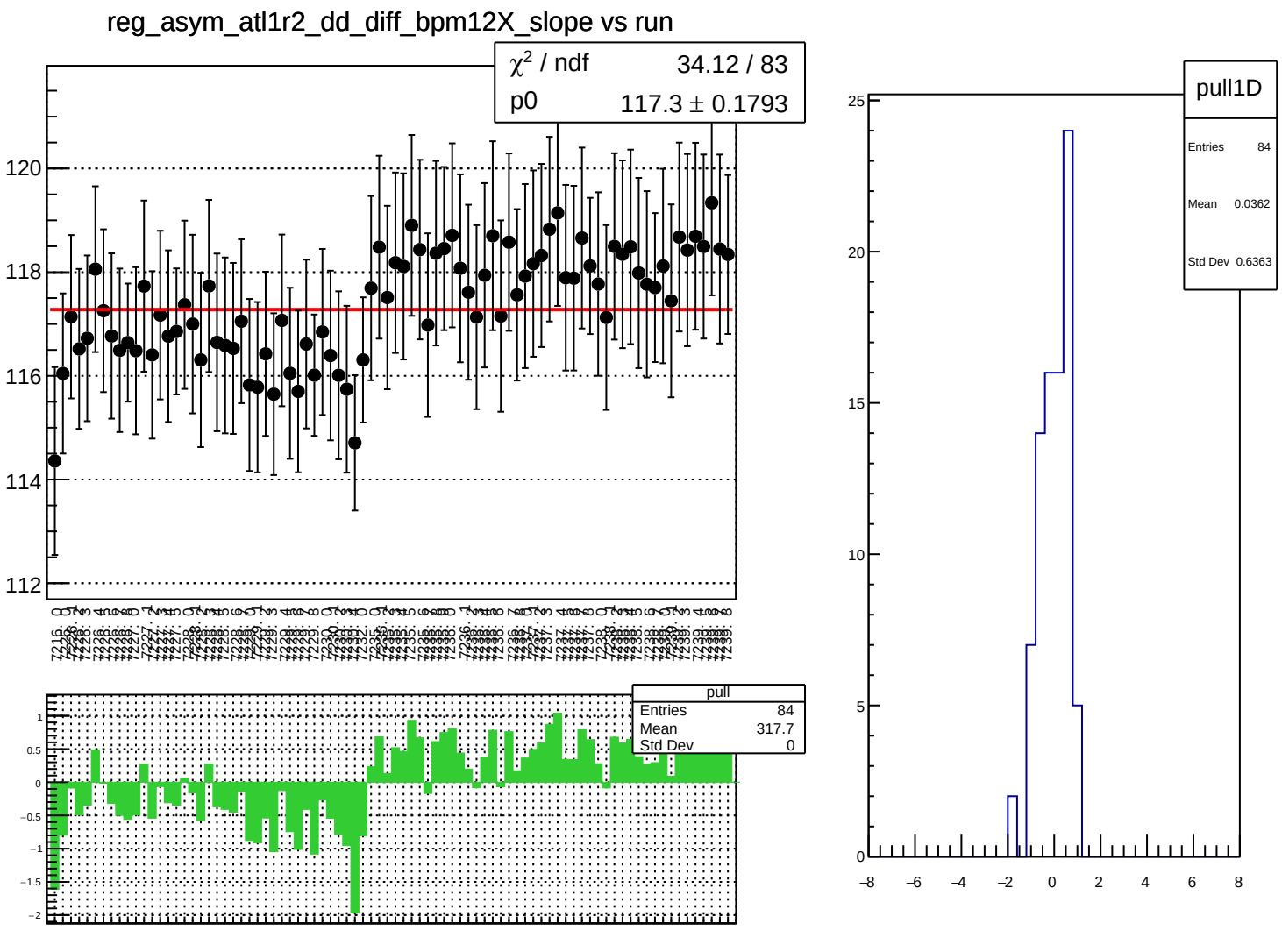

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 21.05 / 83
p0 −8.023 ± 3.857
pull
Entries 84
Mean 267.4
Std Dev 0

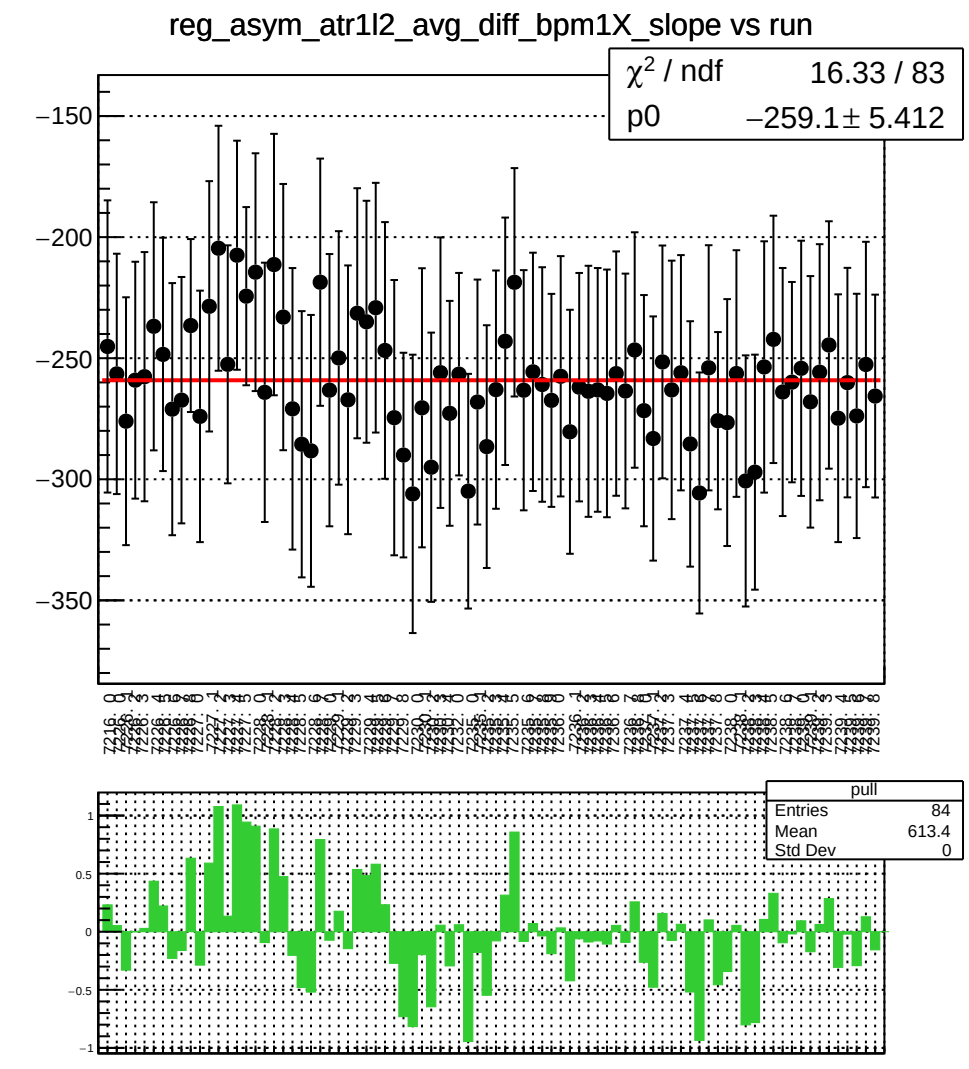

pull1D
Entries 84
Mean −0.02686
Std Dev 0.4999

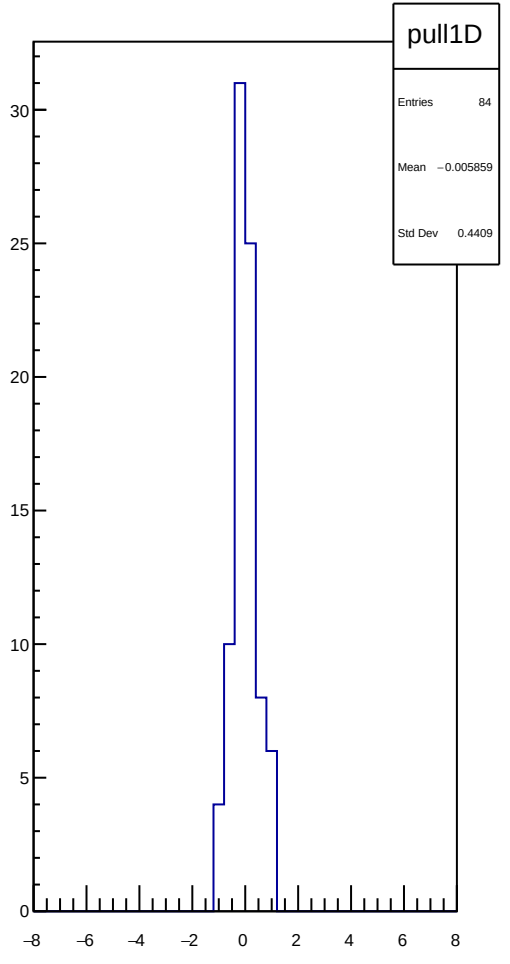

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 26.38 / 83
p0 −264.5 ± 5.231
−150
−200
−250
−300
−350
pull
Entries 84
Mean 368.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1


pull1D
Entries 84
Mean −0.02101
Std Dev 0.56
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.27 / 83
p0 −60.97 ± 4.233
50
0
−50
−100
−150
−200
pull
Entries 84
Mean 284.2
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 84
Mean 0.02351
Std Dev 0.4907
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 34.12 / 83
p0 117.3 ± 0.1793
120
118
116
114
112
pull
Entries 84
Mean 317.7
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 84
Mean 0.0362
Std Dev 0.6363
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 16.33 / 83
p0 −259.1 ± 5.412
−150
−200
−250
−300
−350
pull
Entries 84
Mean 613.4
Std Dev 0
1
0.5
0
−0.5
−1


pull1D
Entries 84
Mean −0.005859
Std Dev 0.4409
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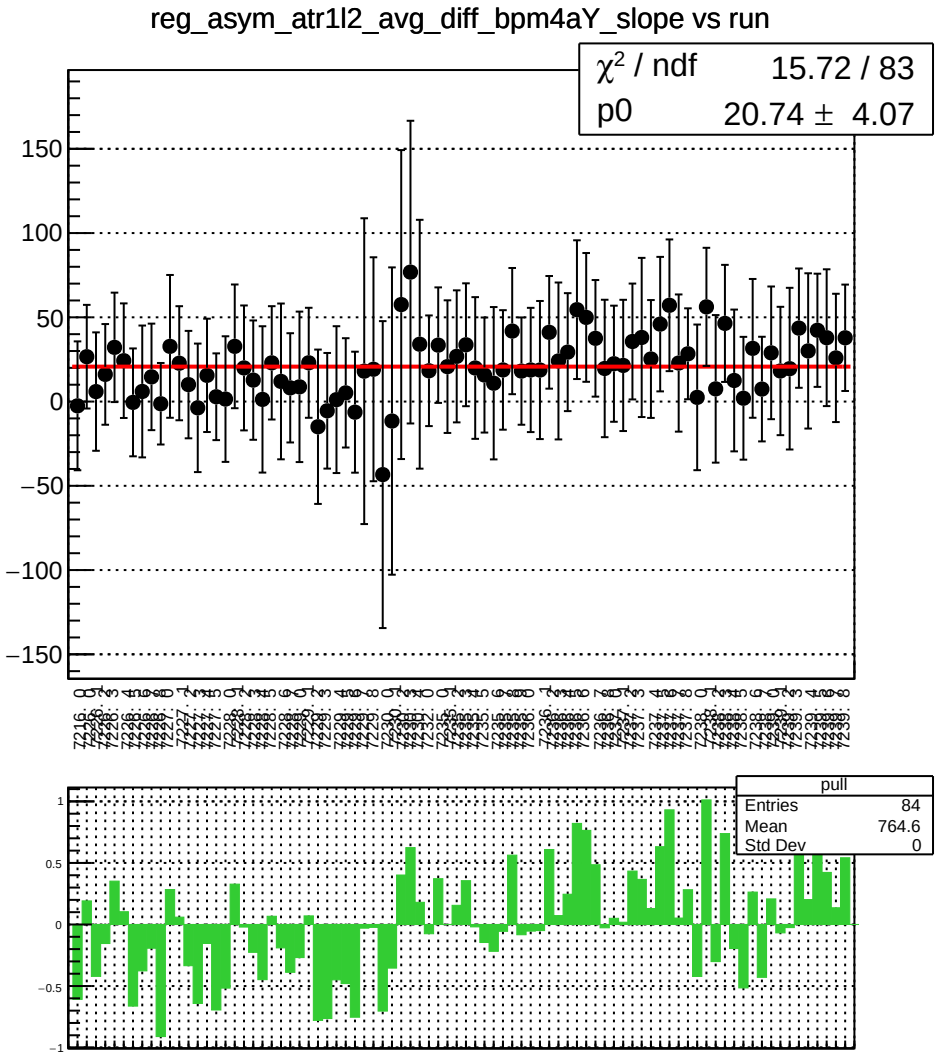
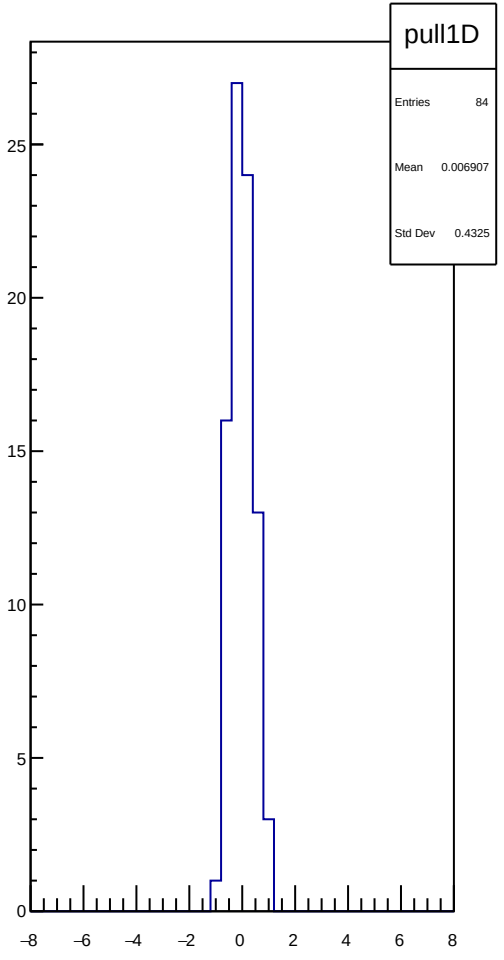
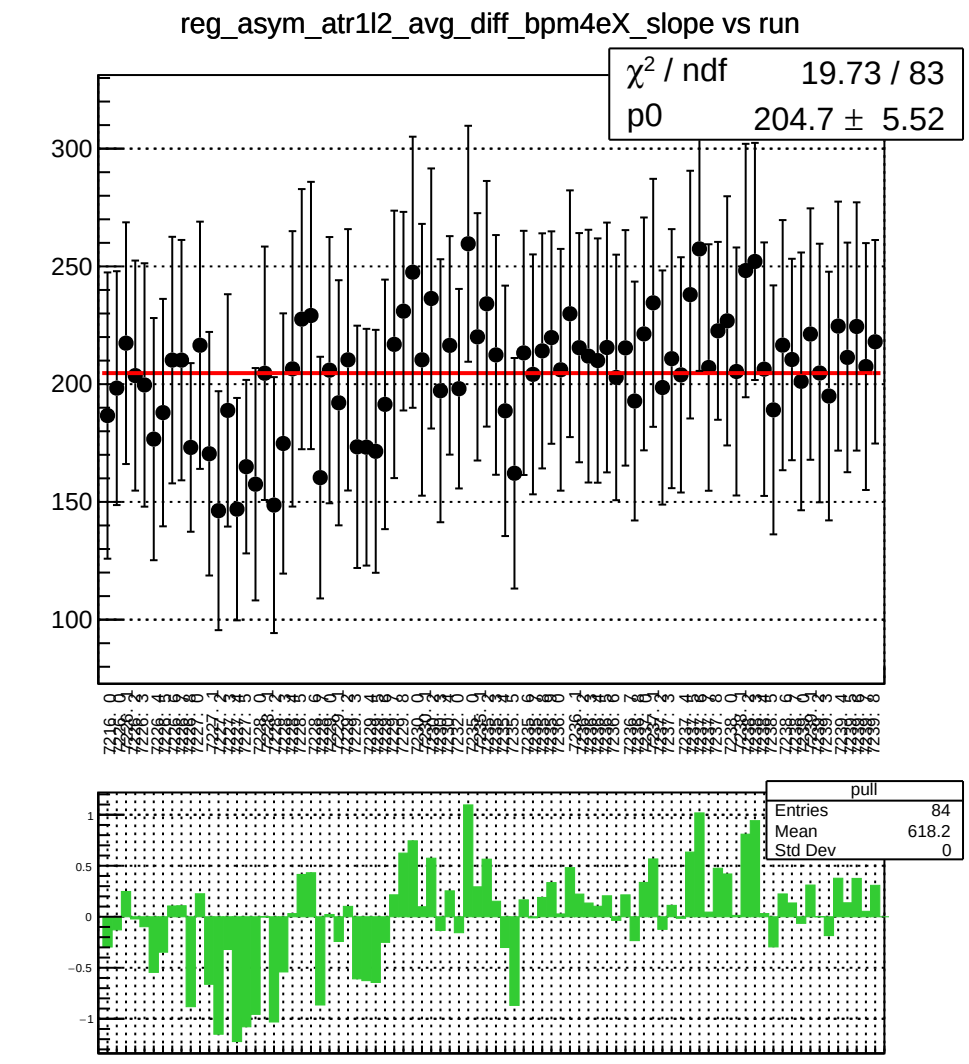
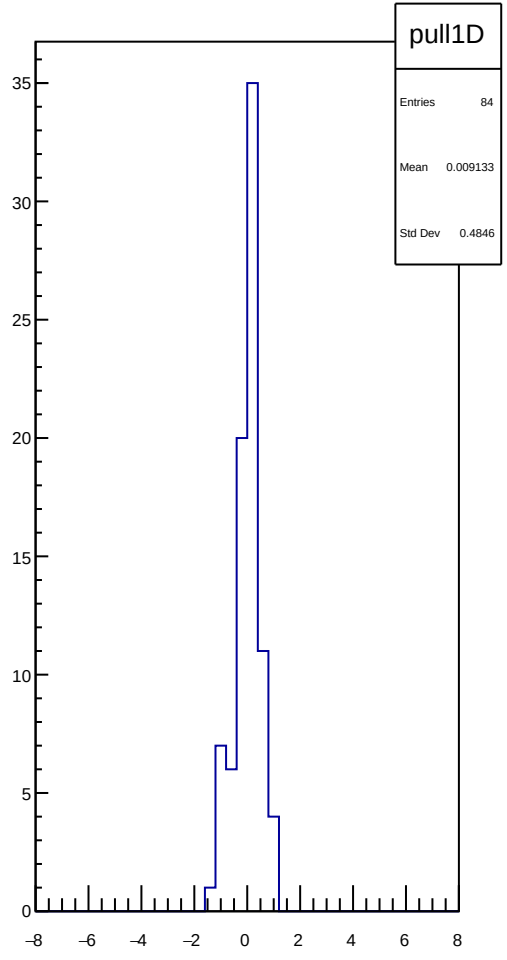
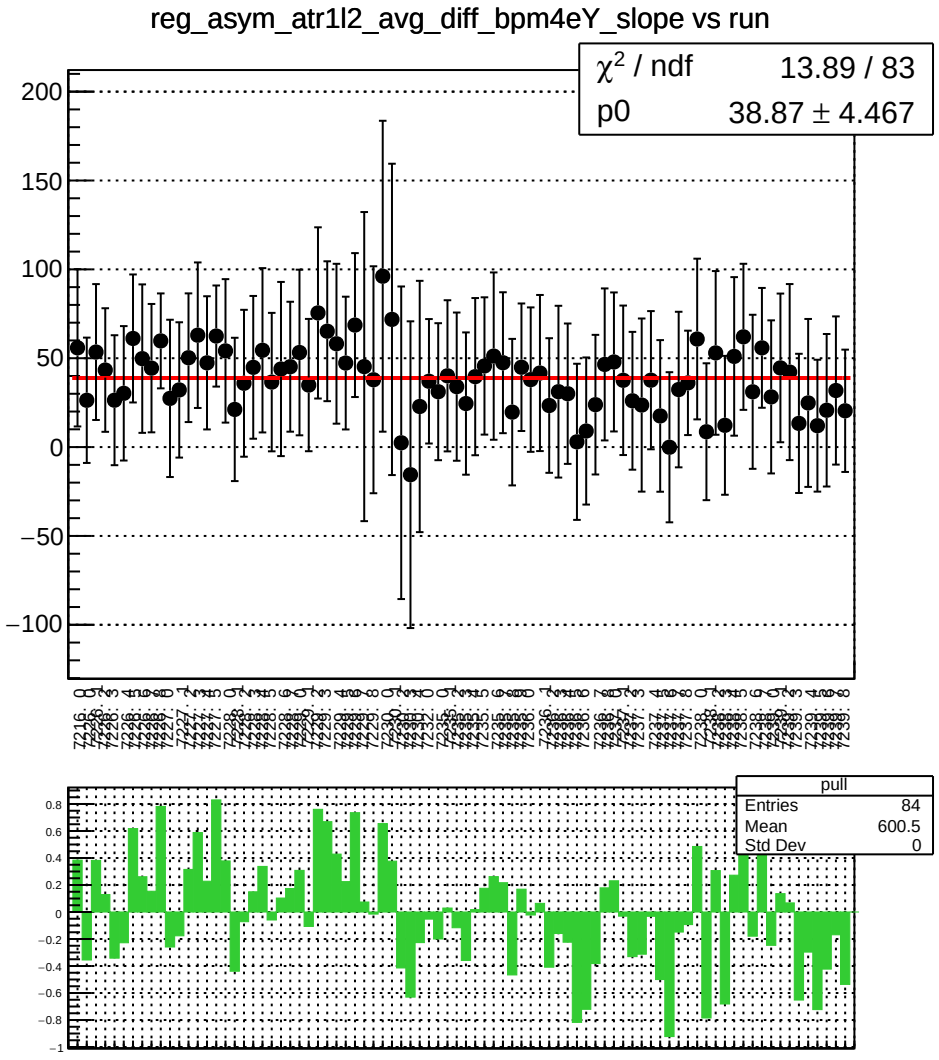
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

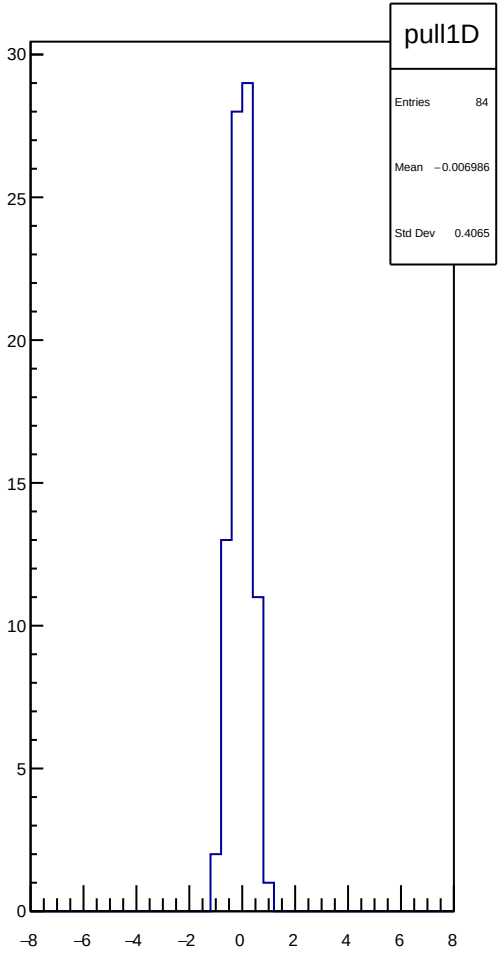

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 15.72 / 83
p0 20.74 ± 4.07
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean 764.6
Std Dev 0
1
0.5
0
−0.5
−1

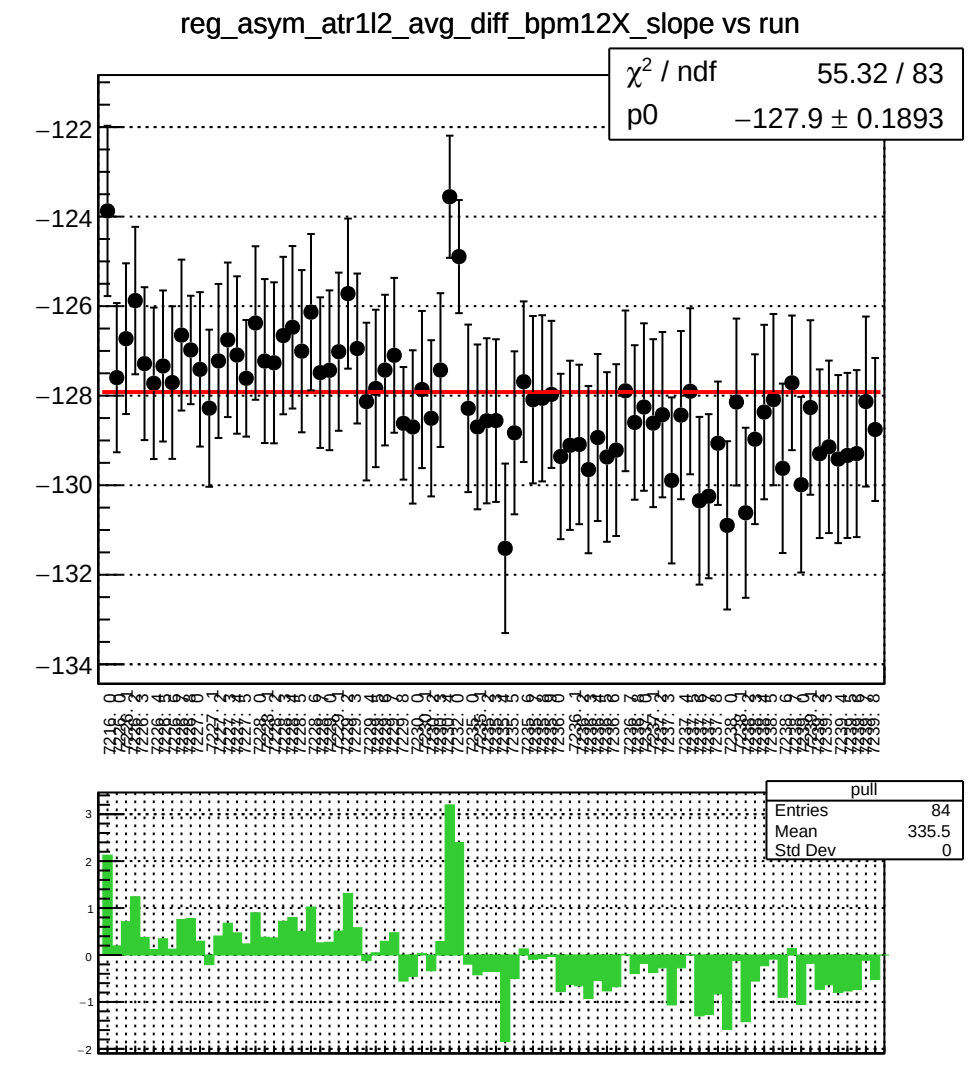

pull1D
Entries 84
Mean 0.006907
Std Dev 0.4325
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

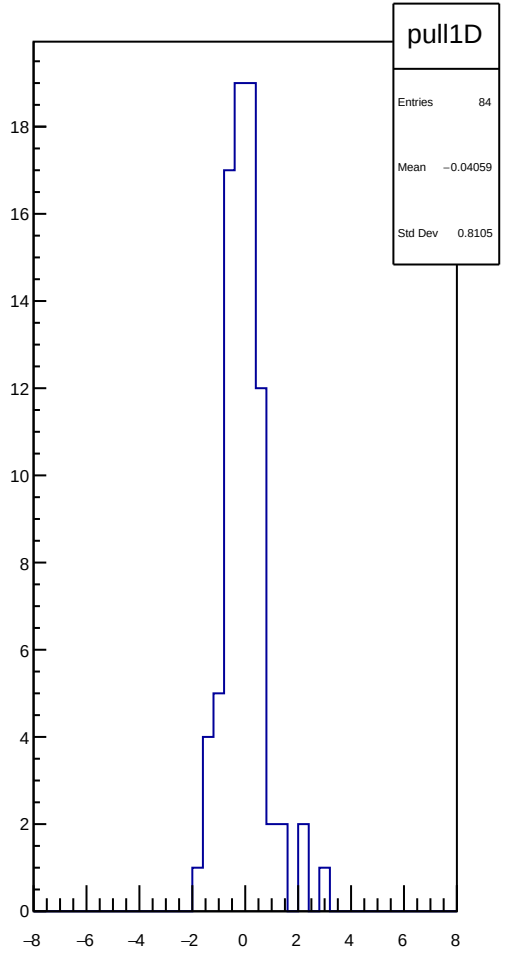

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 19.73 / 83
p0 204.7 ± 5.52
300
250
200
150
100
pull
Entries 84
Mean 618.2
Std Dev 0
1
0.5
0
−0.5
−1

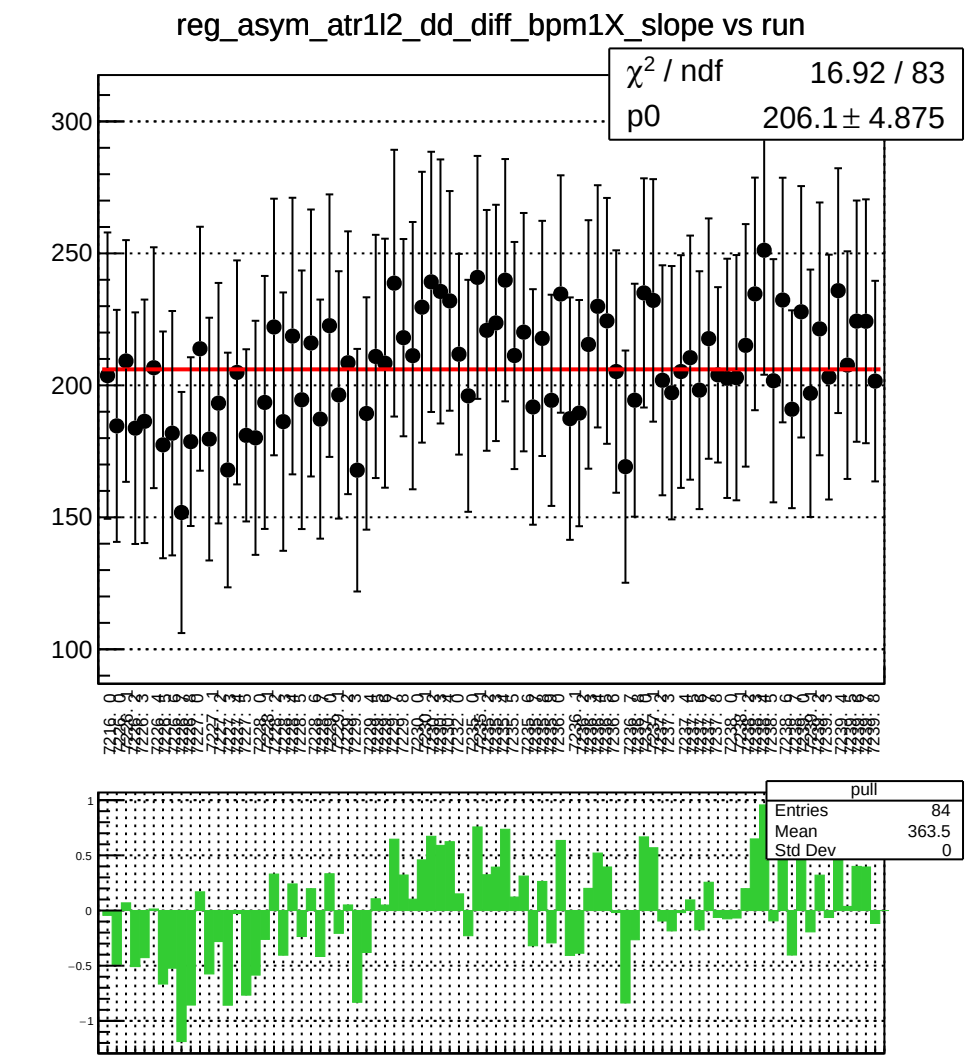

pull1D
Entries 84
Mean 0.009133
Std Dev 0.4846
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

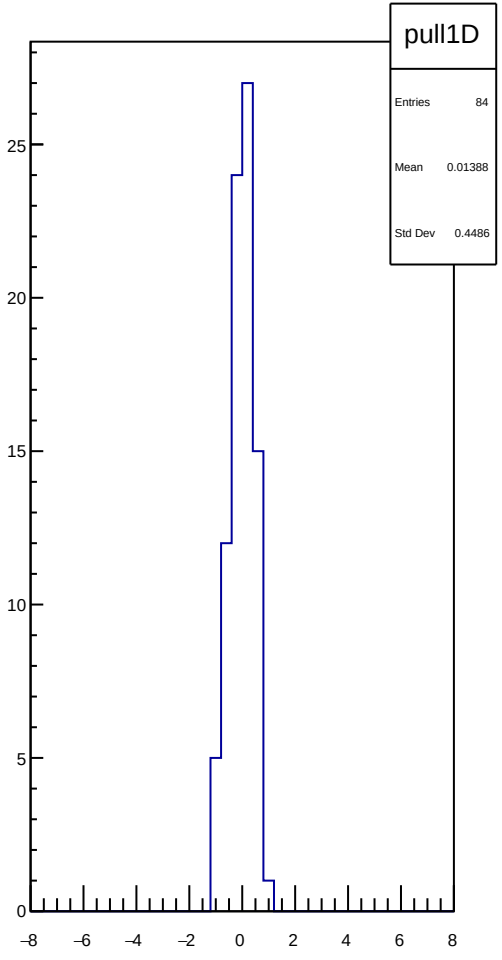

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.89 / 83
p0 38.87 ± 4.467
pull
Entries 84
Mean 600.5
Std Dev 0

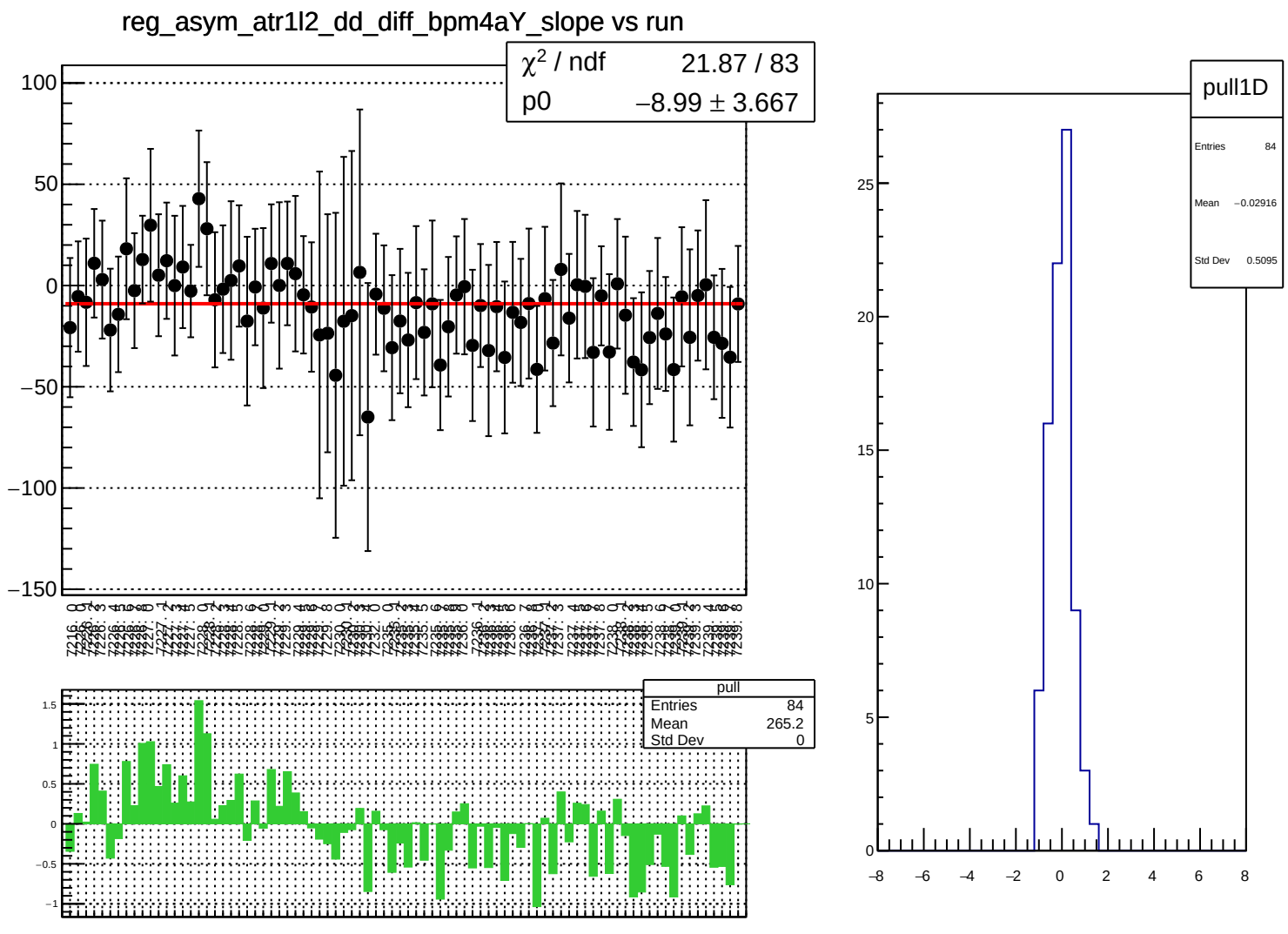

pull1D
Entries 84
Mean −0.006986
Std Dev 0.4065

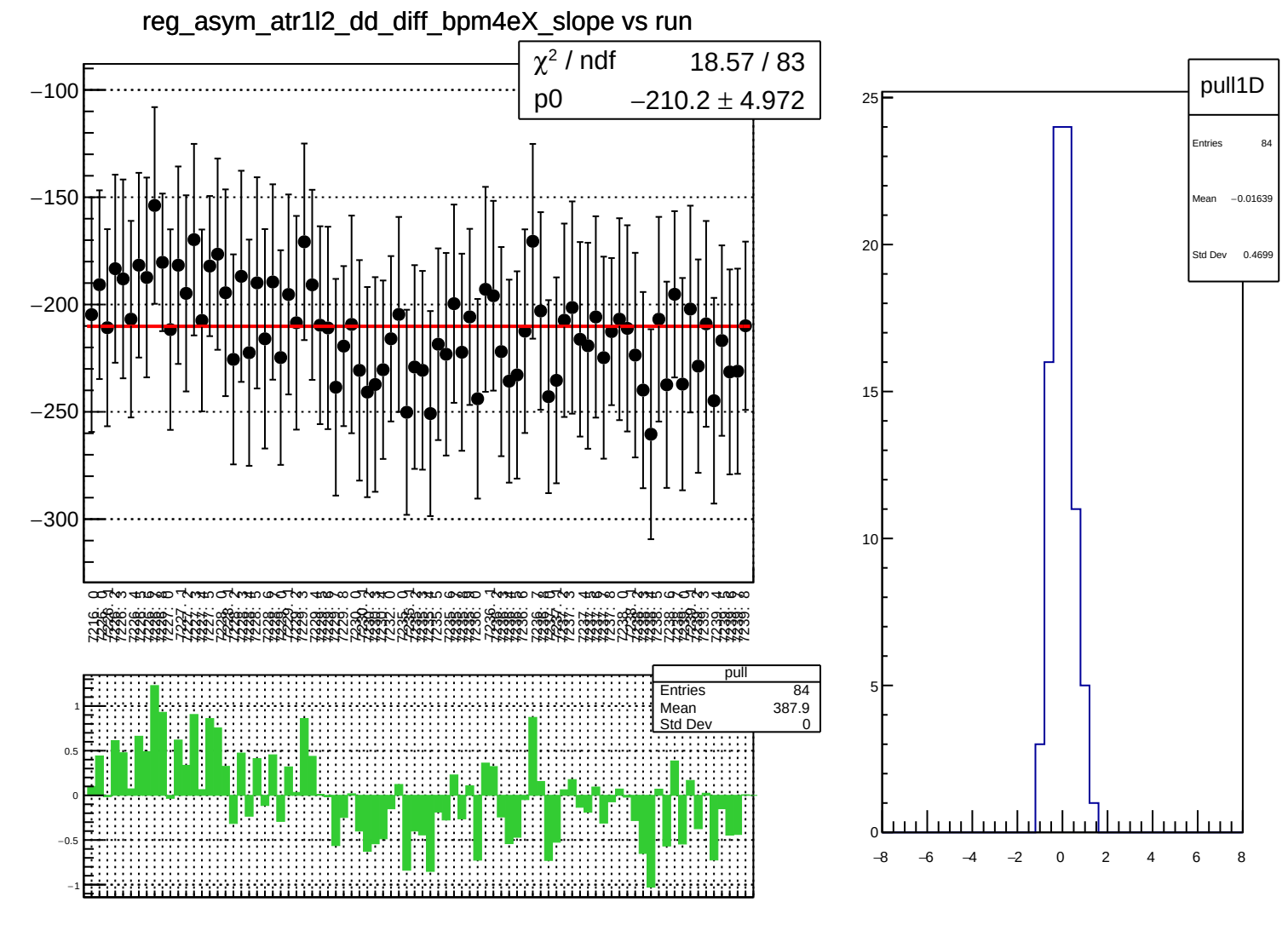

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 55.32 / 83
p0 −127.9 ± 0.1893
−122
−124
−126
−128
−130
−132
−134
pull
Entries 84
Mean 335.5
Std Dev 0
3
2
1
0
−1
−2

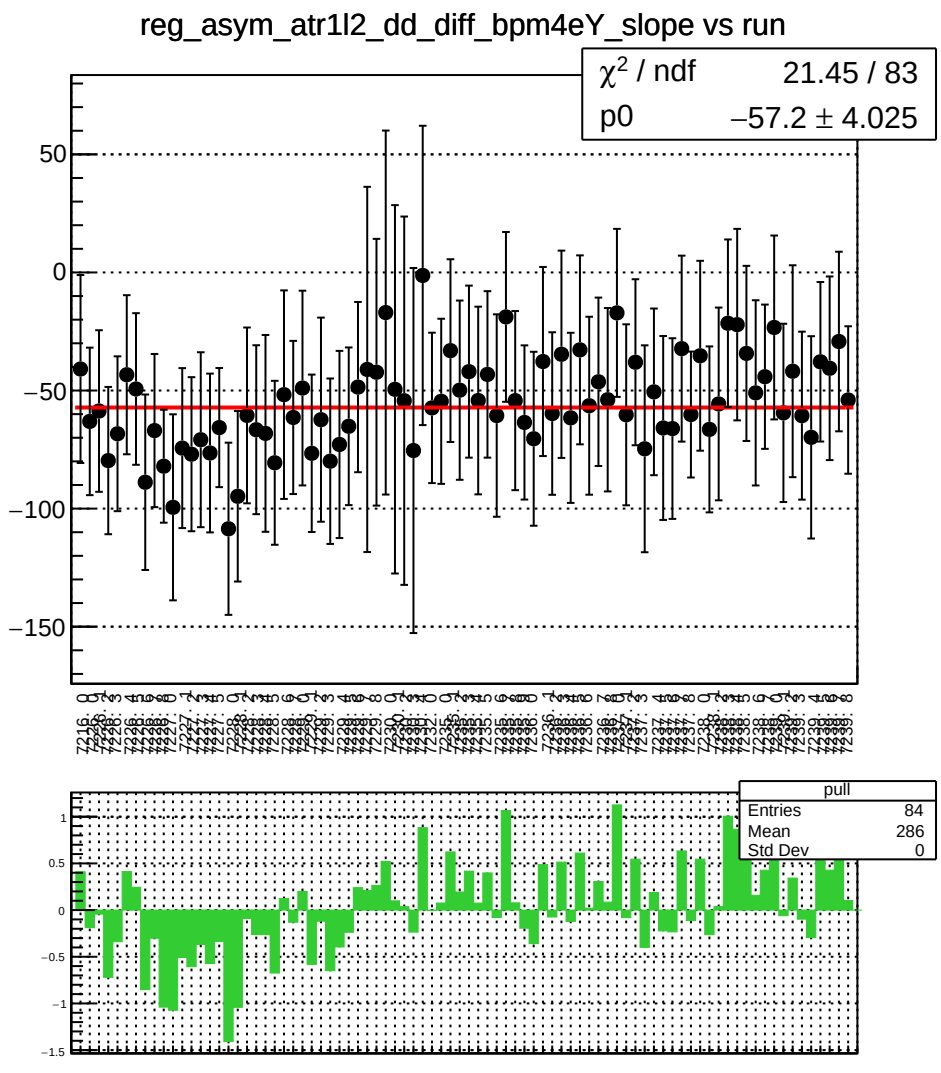

pull1D
Entries 84
Mean −0.04059
Std Dev 0.8105
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

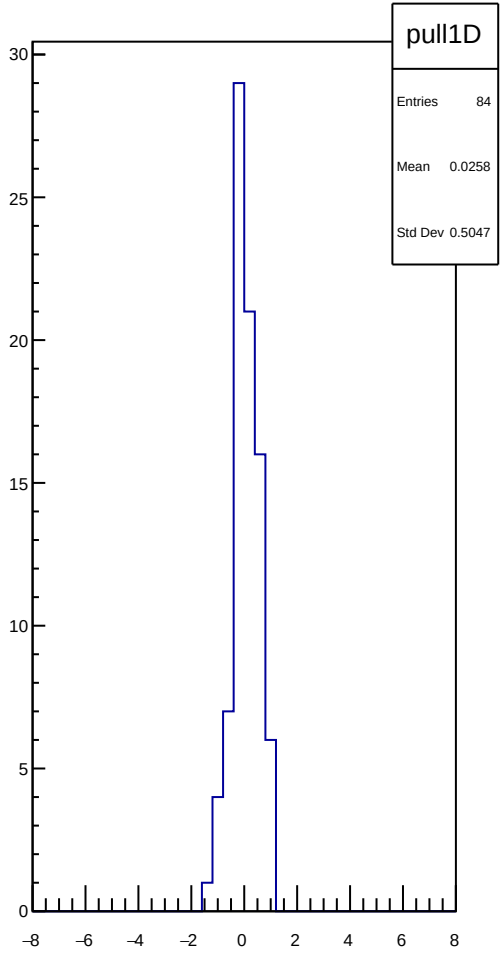

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 16.92 / 83
p0 206.1 ± 4.875
300
250
200
150
100
pull
Entries 84
Mean 363.5
Std Dev 0
1
0.5
0
−0.5
−1

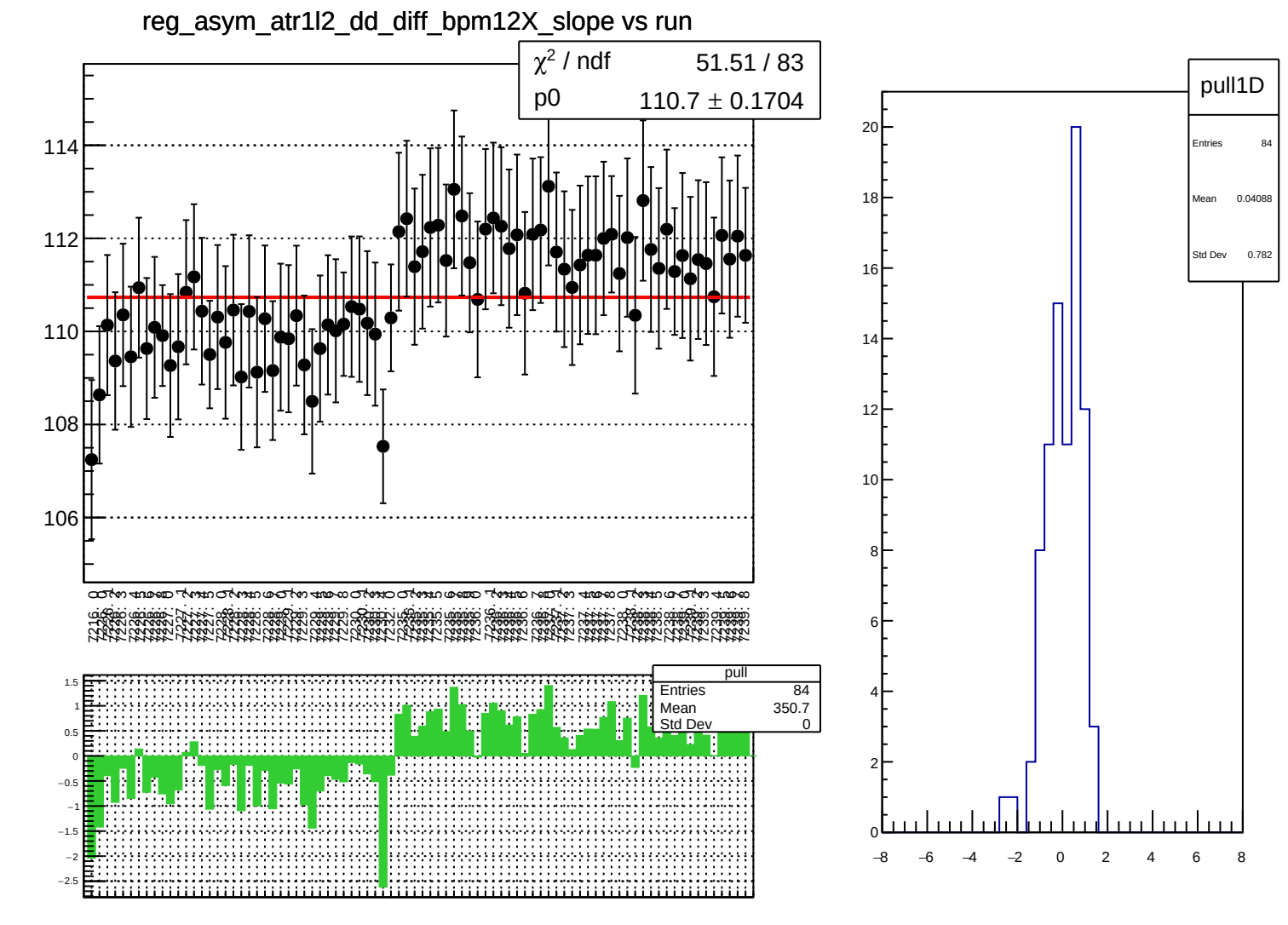

pull1D
Entries 84
Mean 0.01388
Std Dev 0.4486
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

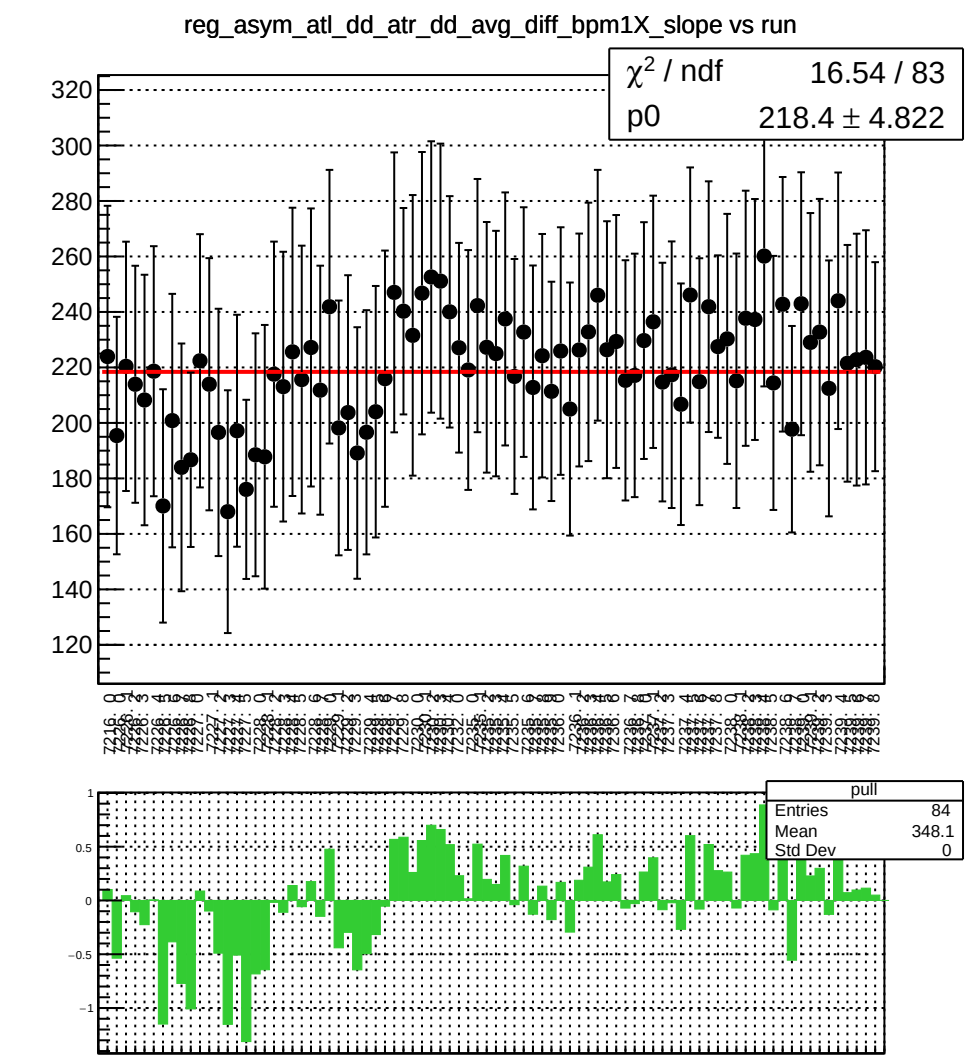

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 21.87 / 83
p0 −8.99 ± 3.667
pull
Entries 84
Mean 265.2
Std Dev 0
pull1D
Entries 84
Mean −0.02916
Std Dev 0.5095

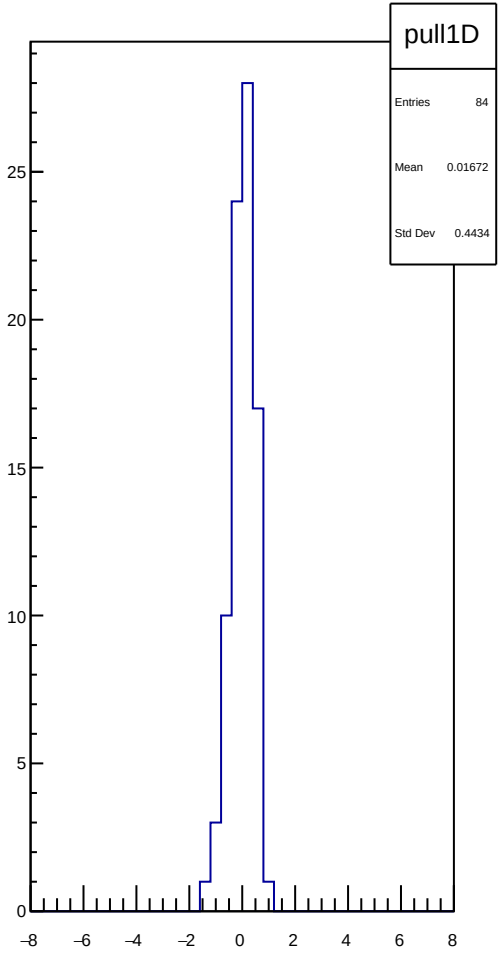

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 18.57 / 83
p0 −210.2 ± 4.972
−100
−150
−200
−250
−300
pull
Entries 84
Mean 387.9
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 84
Mean −0.01639
Std Dev 0.4699
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

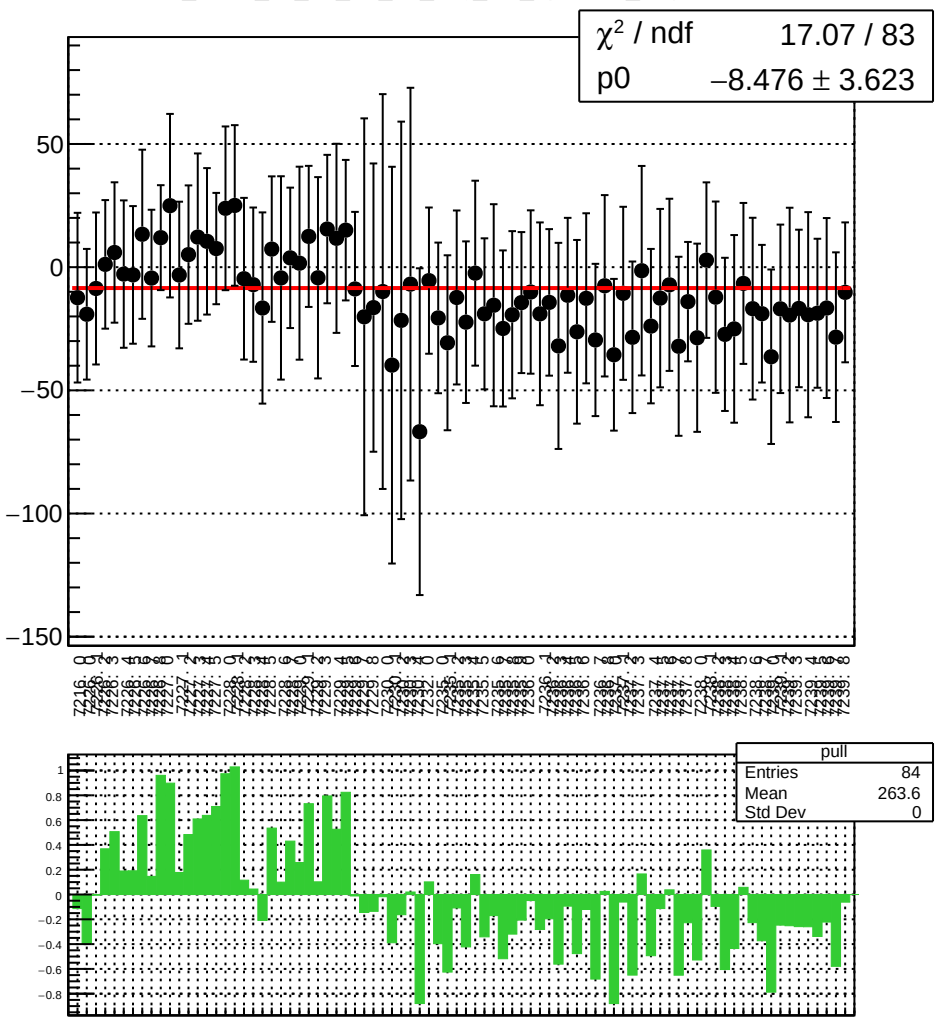

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 21.45 / 83
p0 −57.2 ± 4.025
50
0
−50
−100
−150
pull
Entries 84
Mean 286
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

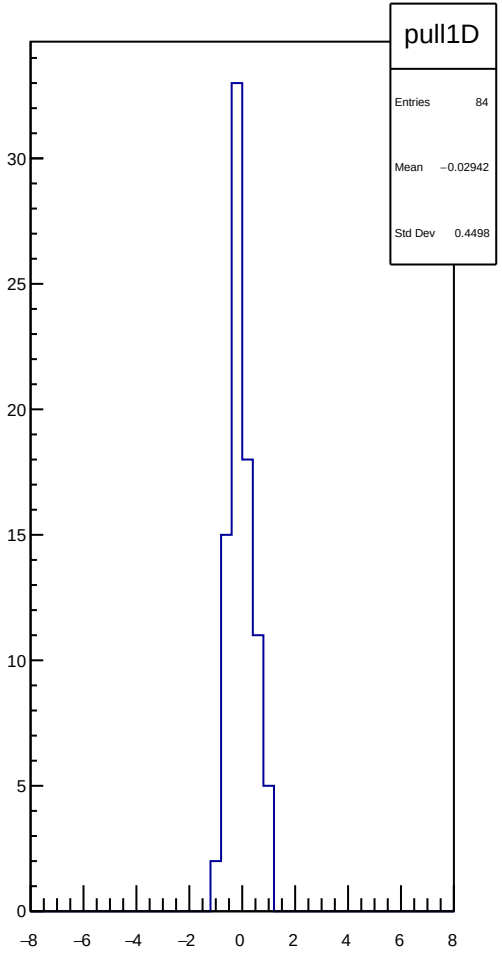

pull1D
Entries 84
Mean 0.0258
Std Dev 0.5047
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

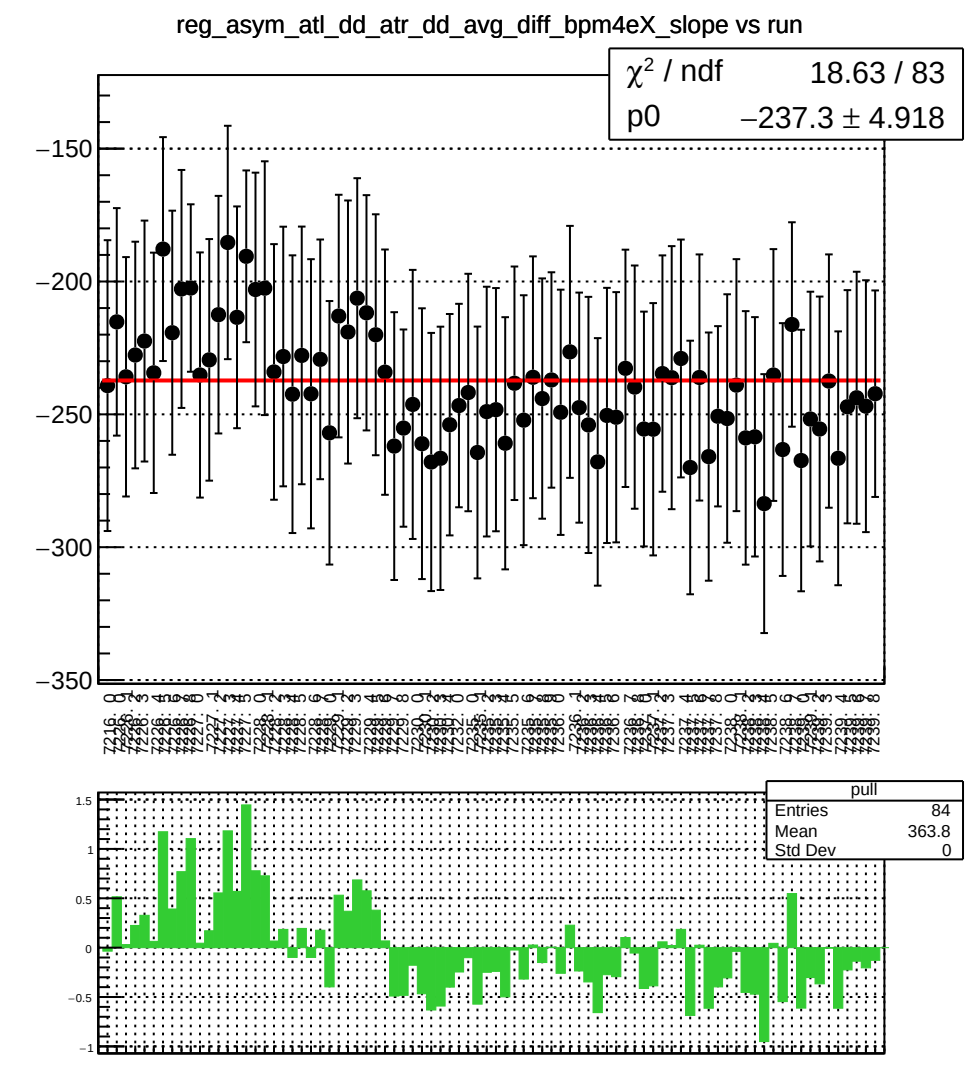

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 51.51 / 83
p0 110.7 ± 0.1704
pull
Entries 84
Mean 350.7
Std Dev 0
pull1D
Entries 84
Mean 0.04088
Std Dev 0.782

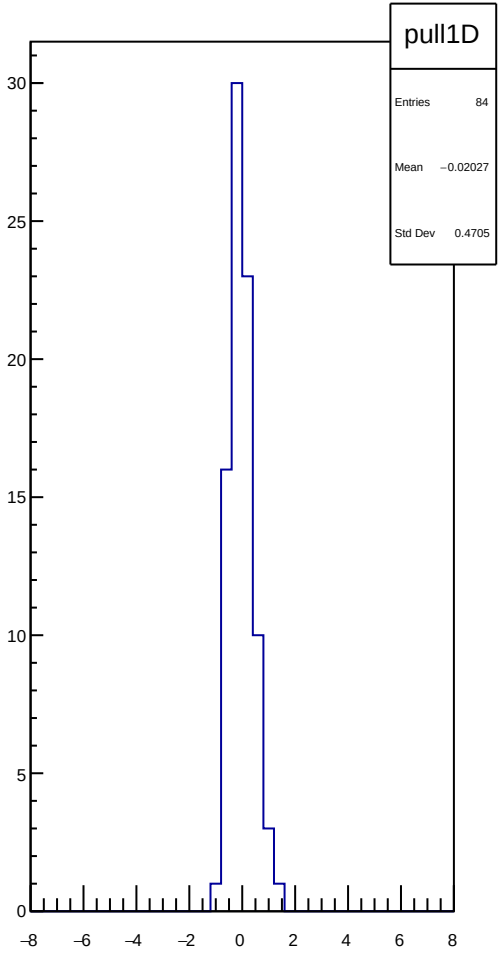

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 16.54 / 83
p0 218.4 ± 4.822
pull
Entries 84
Mean 348.1
Std Dev 0

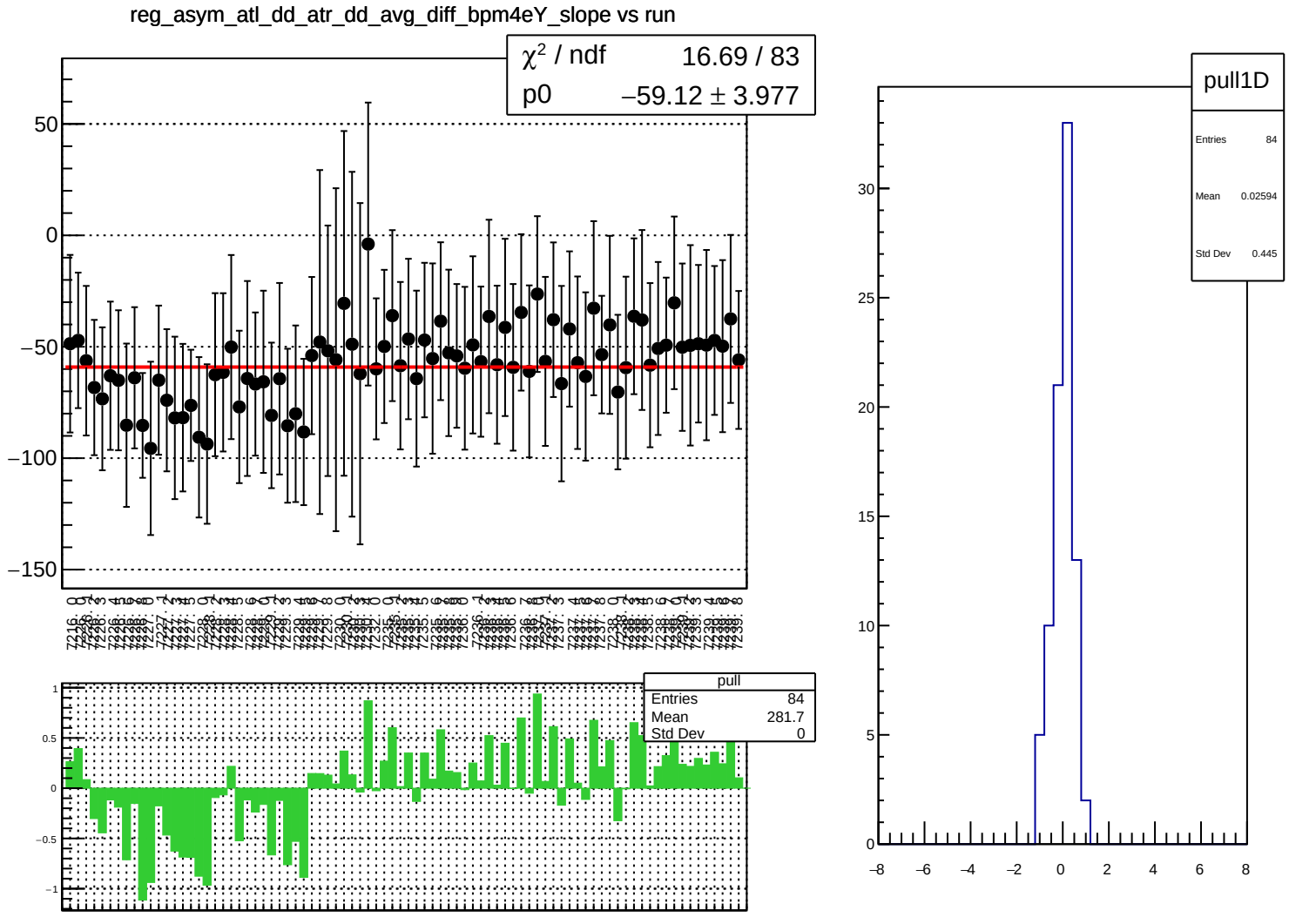

pull1D
Entries 84
Mean 0.01672
Std Dev 0.4434

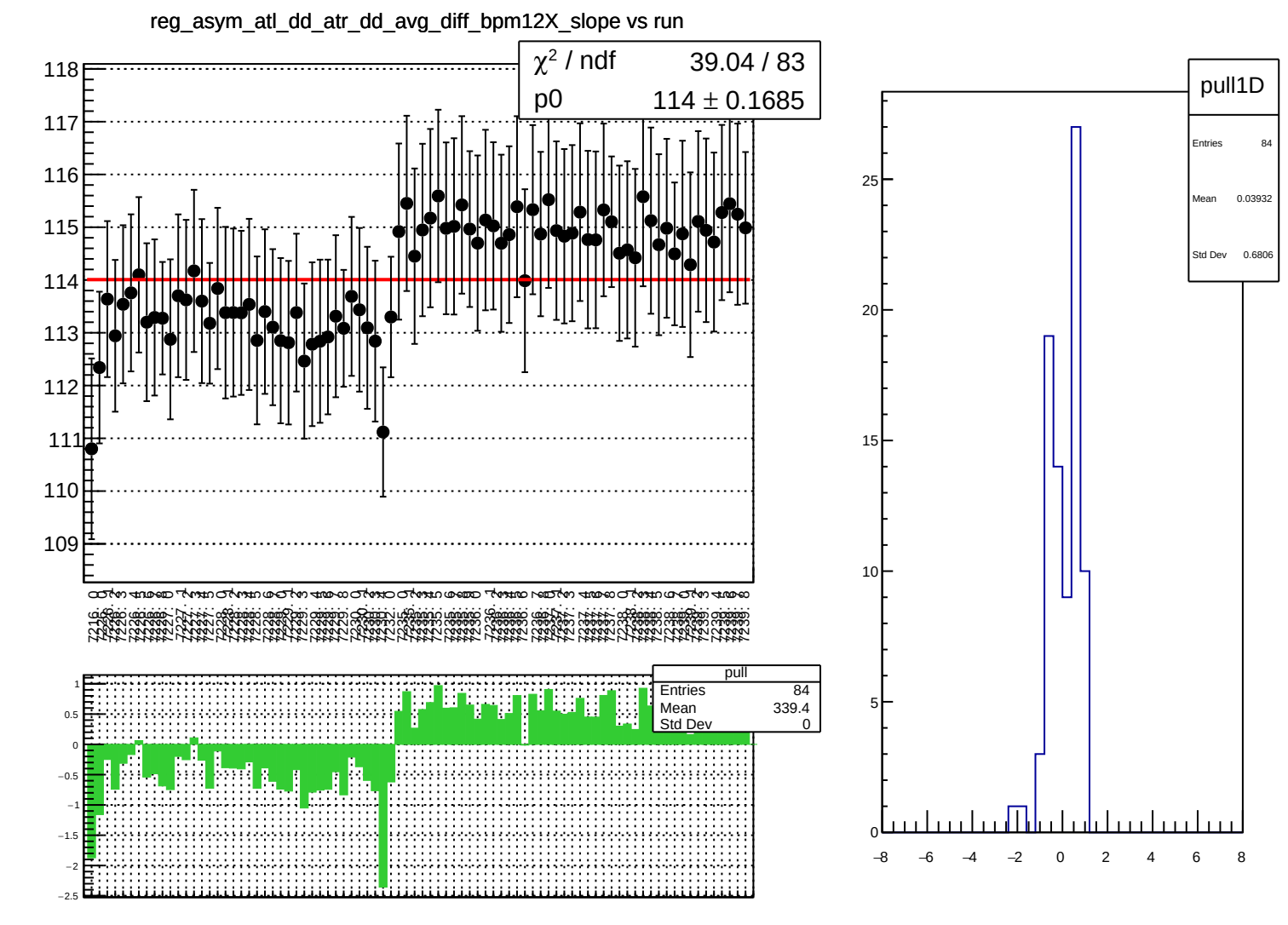

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 17.07 / 83
p0 −8.476 ± 3.623
pull
Entries 84
Mean 263.6
Std Dev 0

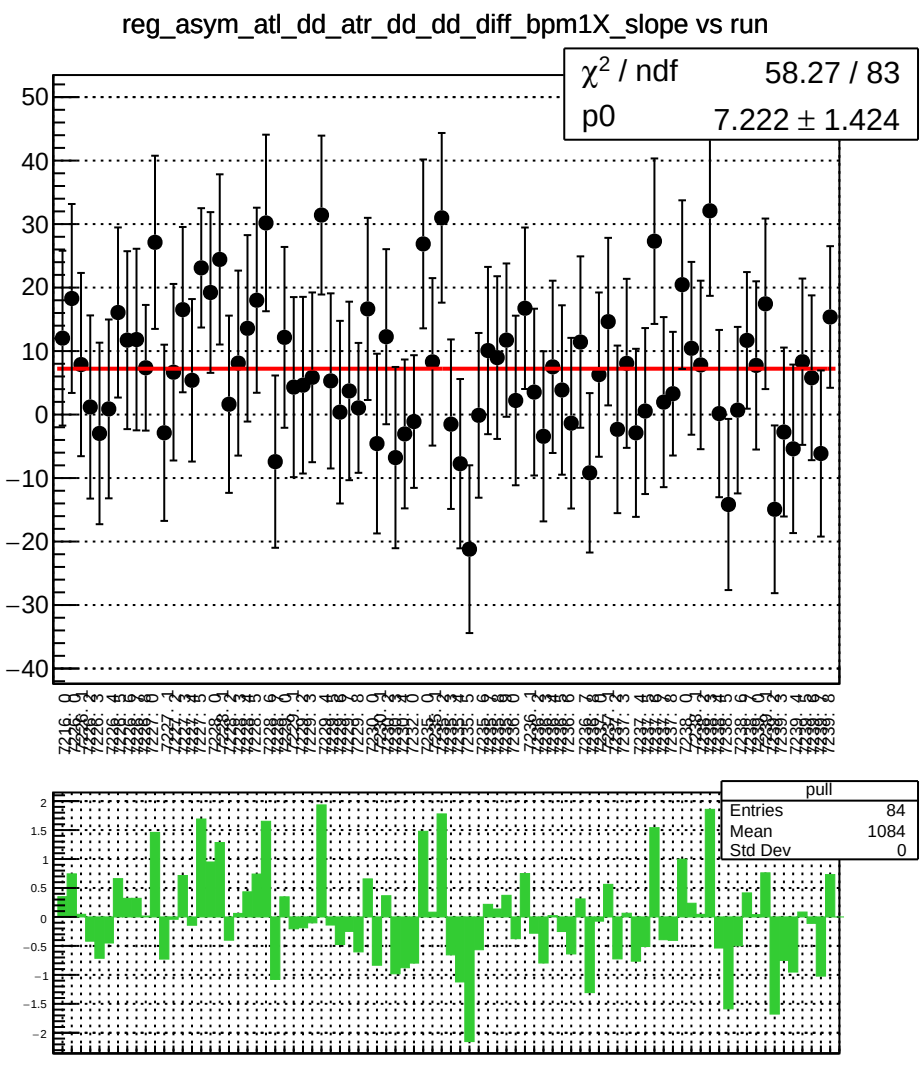

pull1D
Entries 84
Mean −0.02942
Std Dev 0.4498

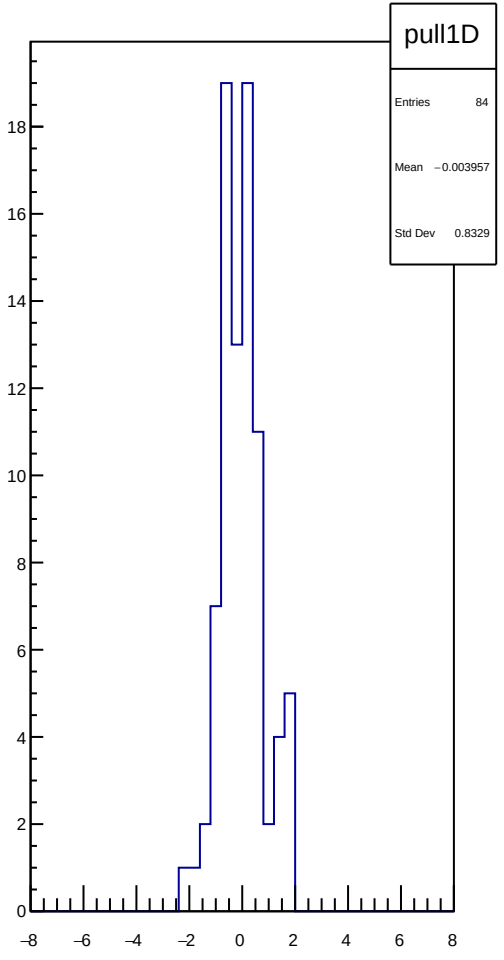

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 18.63 / 83
p0 −237.3 ± 4.918
pull
Entries 84
Mean 363.8
Std Dev 0

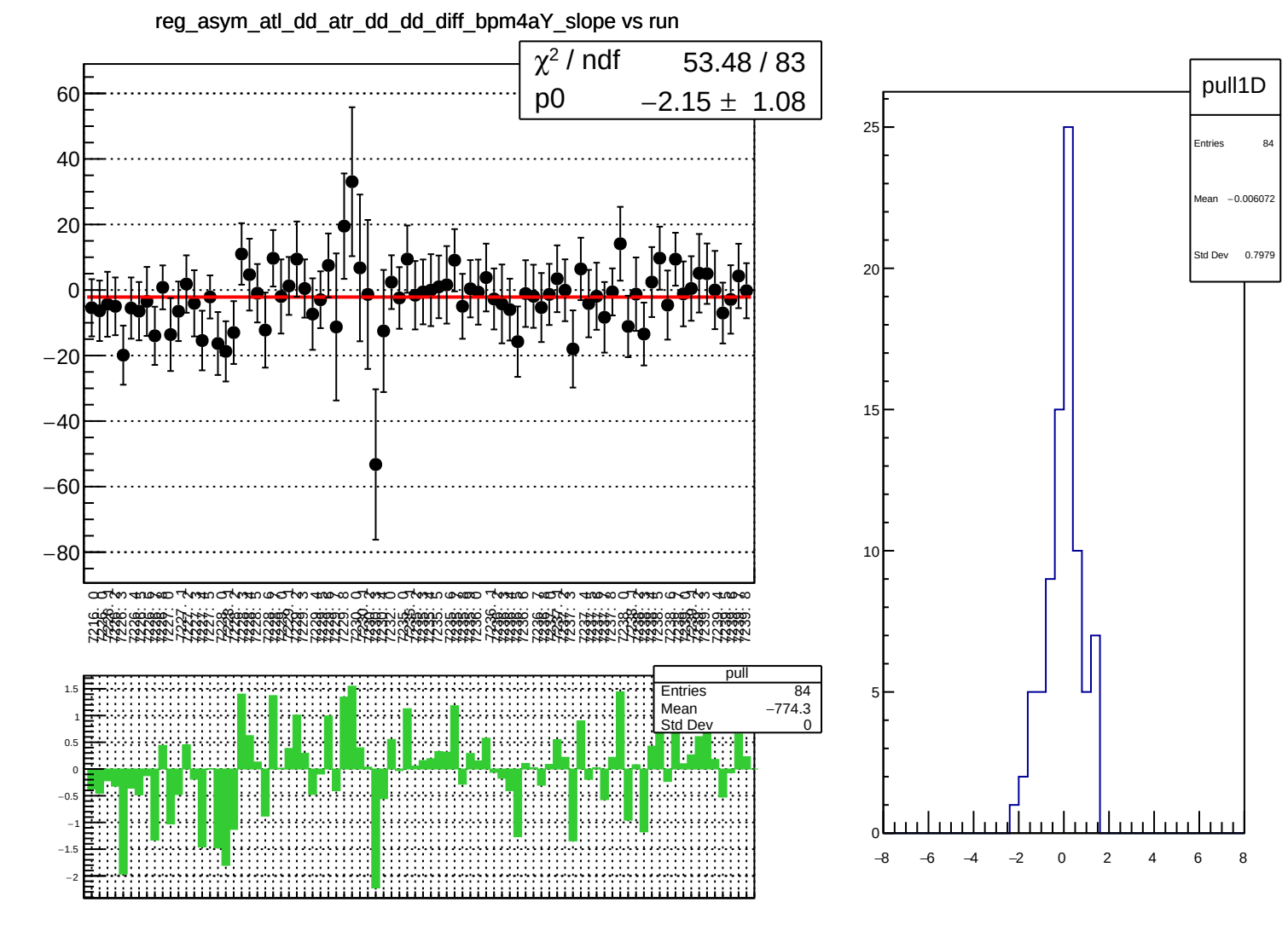

pull1D
Entries 84
Mean −0.02027
Std Dev 0.4705

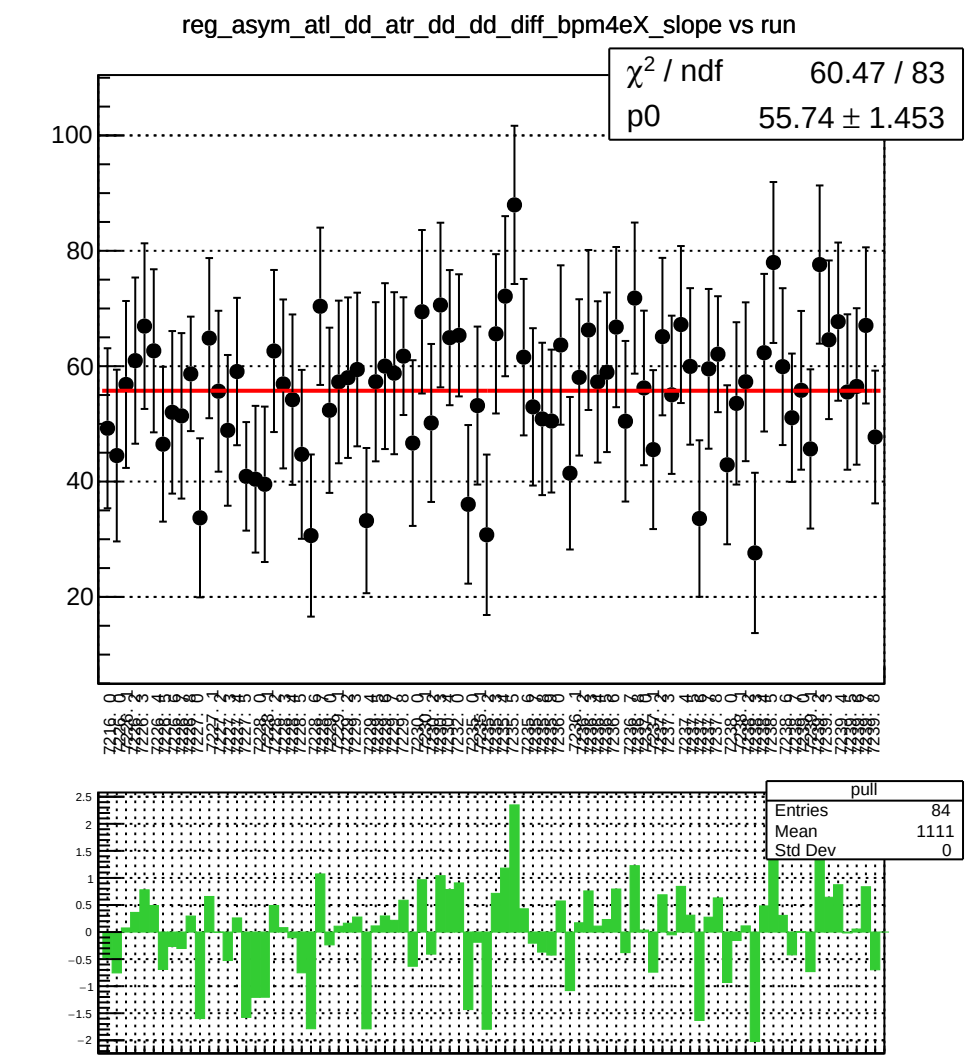

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.69 / 83
p0 −59.12 ± 3.977
pull
Entries 84
Mean 281.7
Std Dev 0
pull1D
Entries 84
Mean 0.02594
Std Dev 0.445

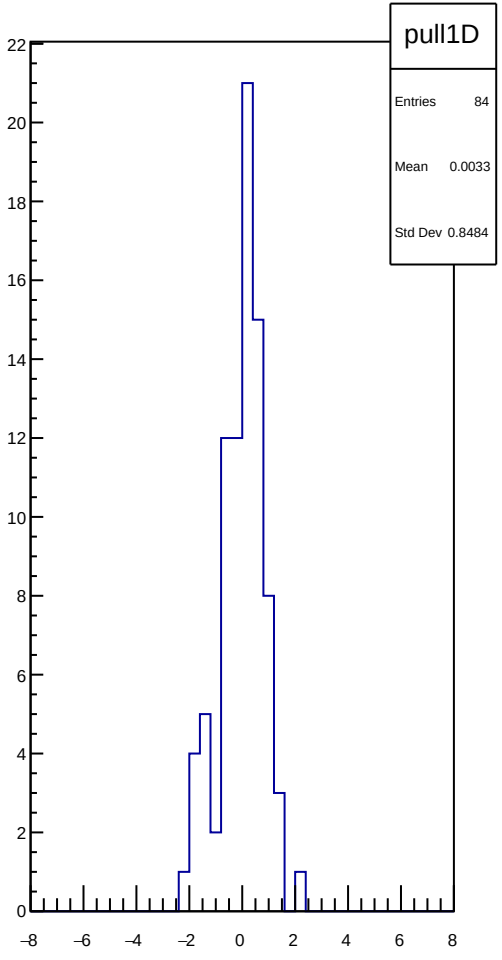

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 39.04 / 83
p0 114 ± 0.1685
pull
Entries 84
Mean 339.4
Std Dev 0
pull1D
Entries 84
Mean 0.03932
Std Dev 0.6806

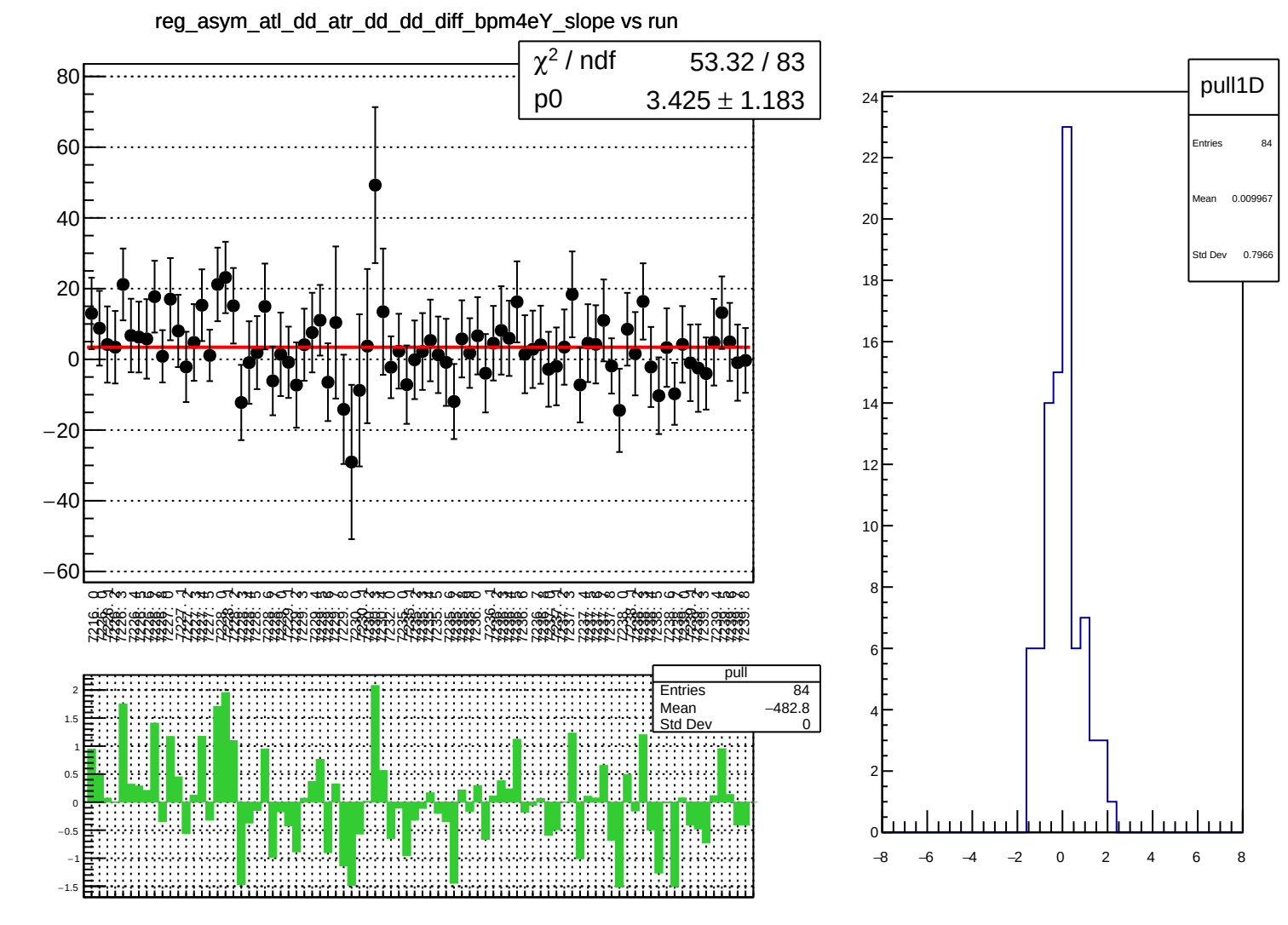

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 58.27 / 83
p0 7.222 ± 1.424
pull
Entries 84
Mean 1084
Std Dev 0

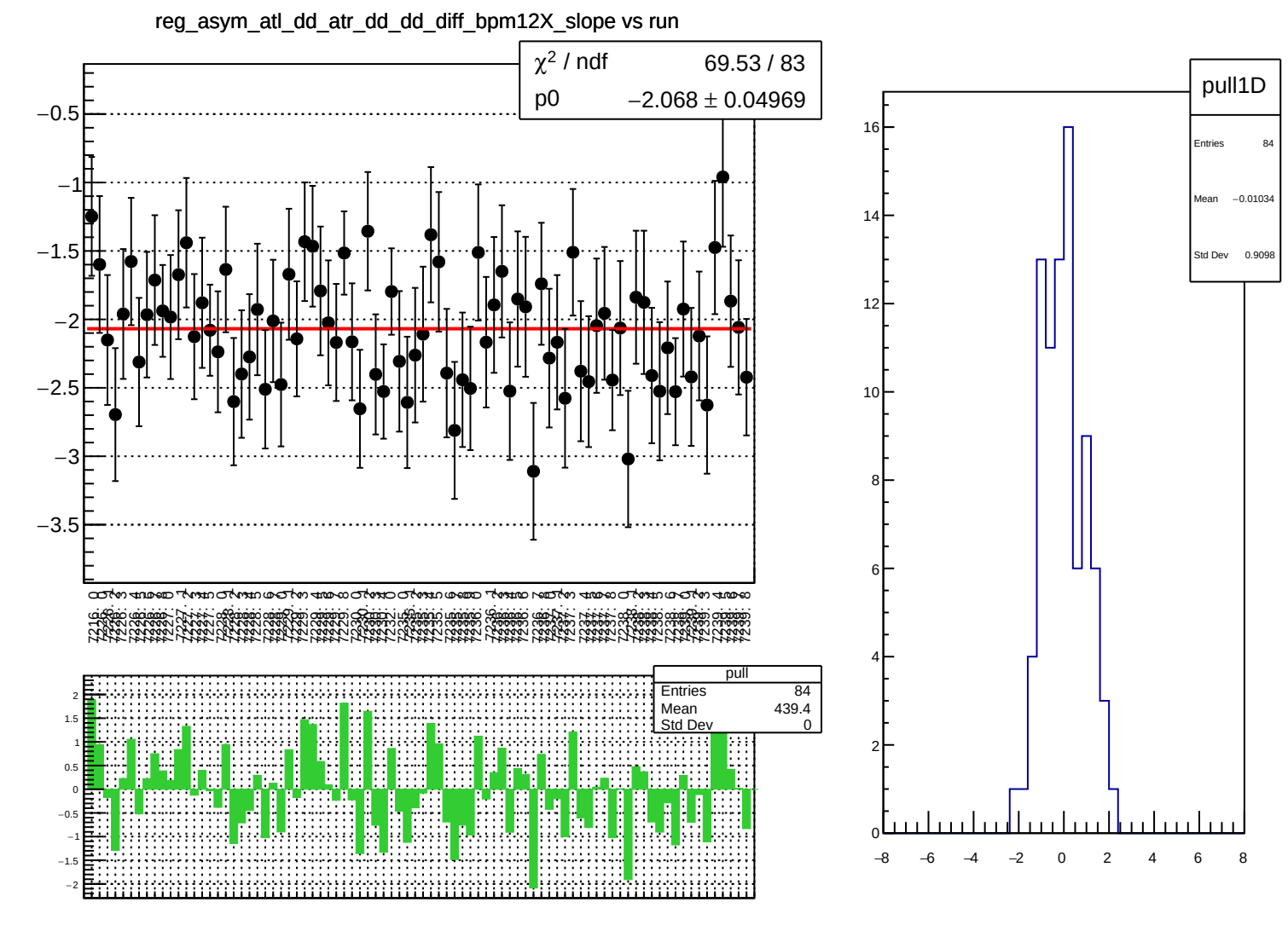

pull1D
Entries 84
Mean −0.003957
Std Dev 0.8329

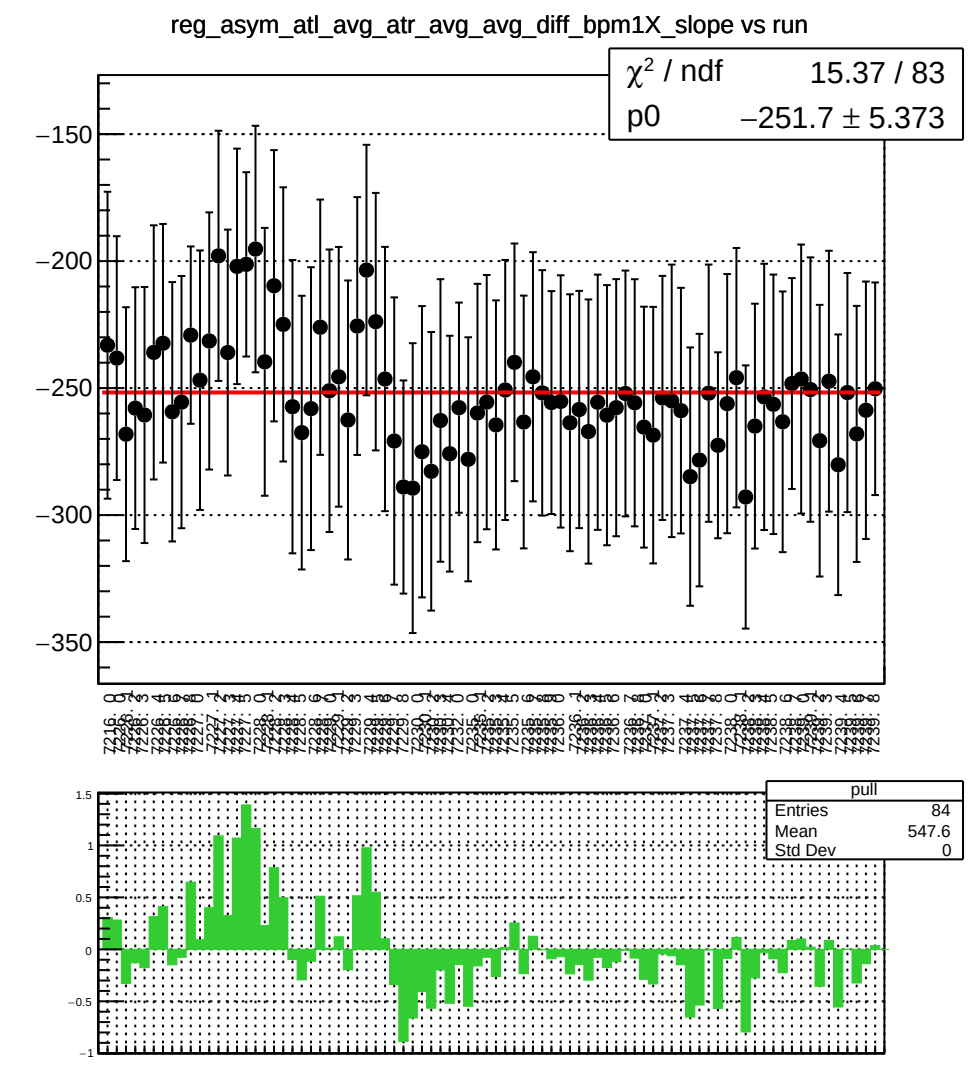

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 53.48 / 83
p0 −2.15 ± 1.08
pull
Entries 84
Mean −774.3
Std Dev 0
pull1D
Entries 84
Mean −0.006072
Std Dev 0.7979

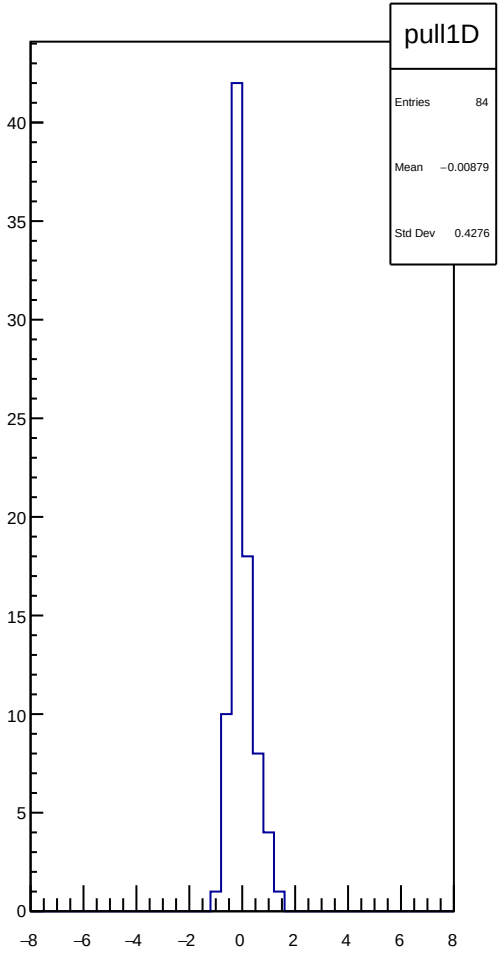

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 60.47 / 83
p0 55.74 ± 1.453
pull
Entries 84
Mean 1111
Std Dev 0

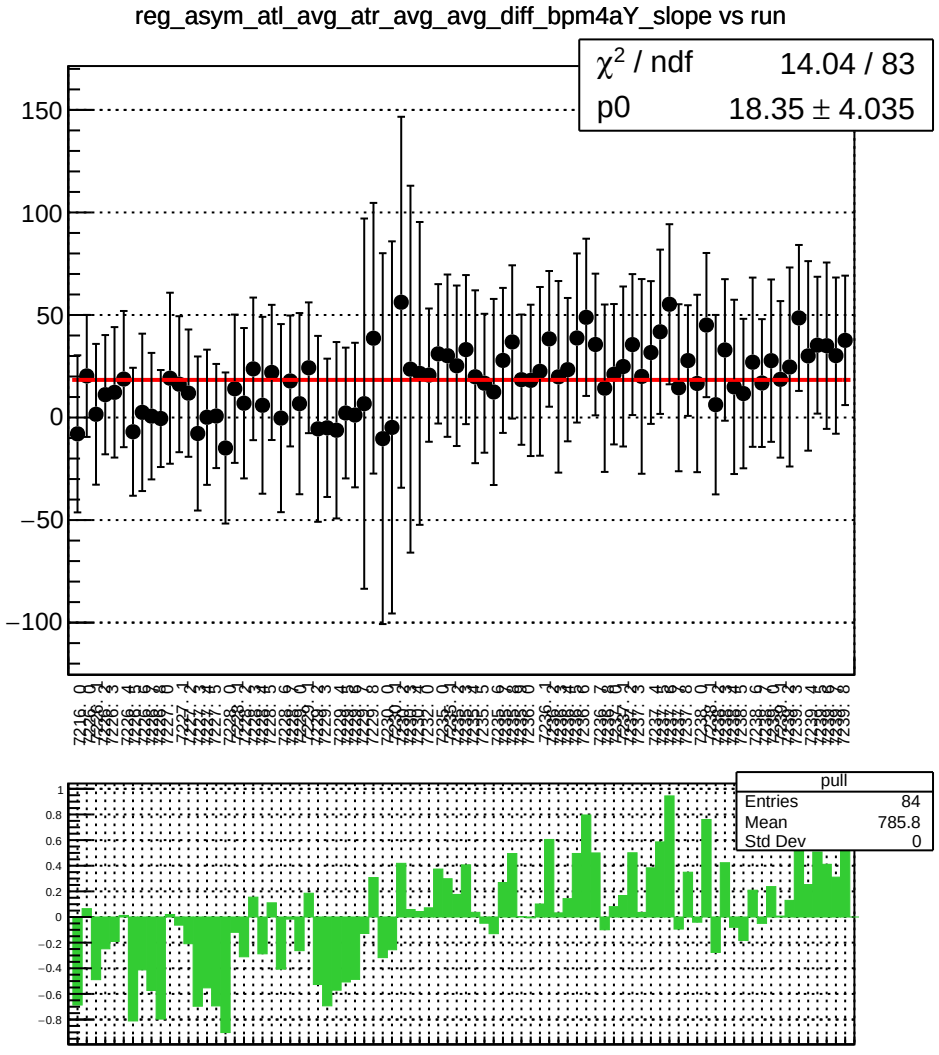

pull1D
Entries 84
Mean 0.0033
Std Dev 0.8484

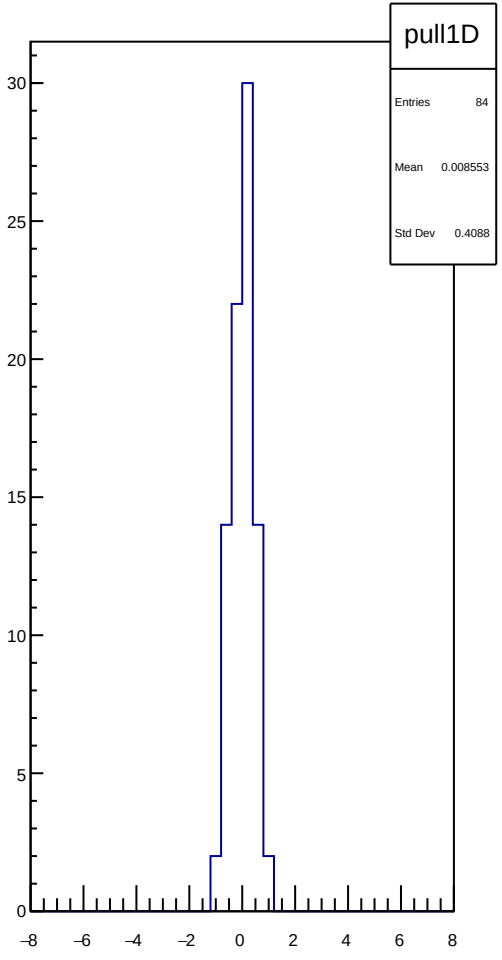

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 53.32 / 83
p0 3.425 ± 1.183
pull
Entries 84
Mean −482.8
Std Dev 0
pull1D
Entries 84
Mean 0.009967
Std Dev 0.7966

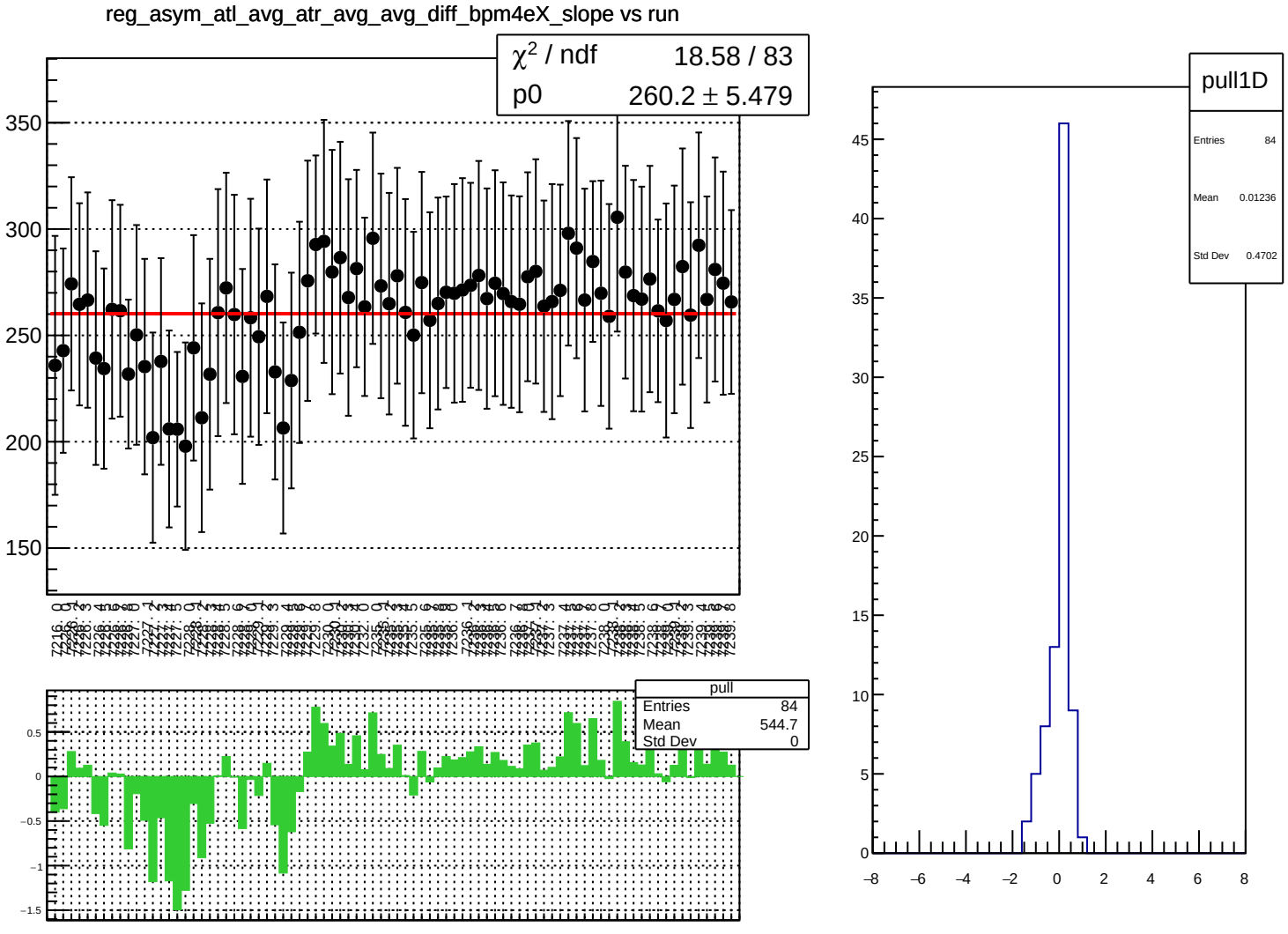

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 69.53 / 83
p0 −2.068 ± 0.04969
pull
Entries 84
Mean 439.4
Std Dev 0
pull1D
Entries 84
Mean −0.01034
Std Dev 0.9098

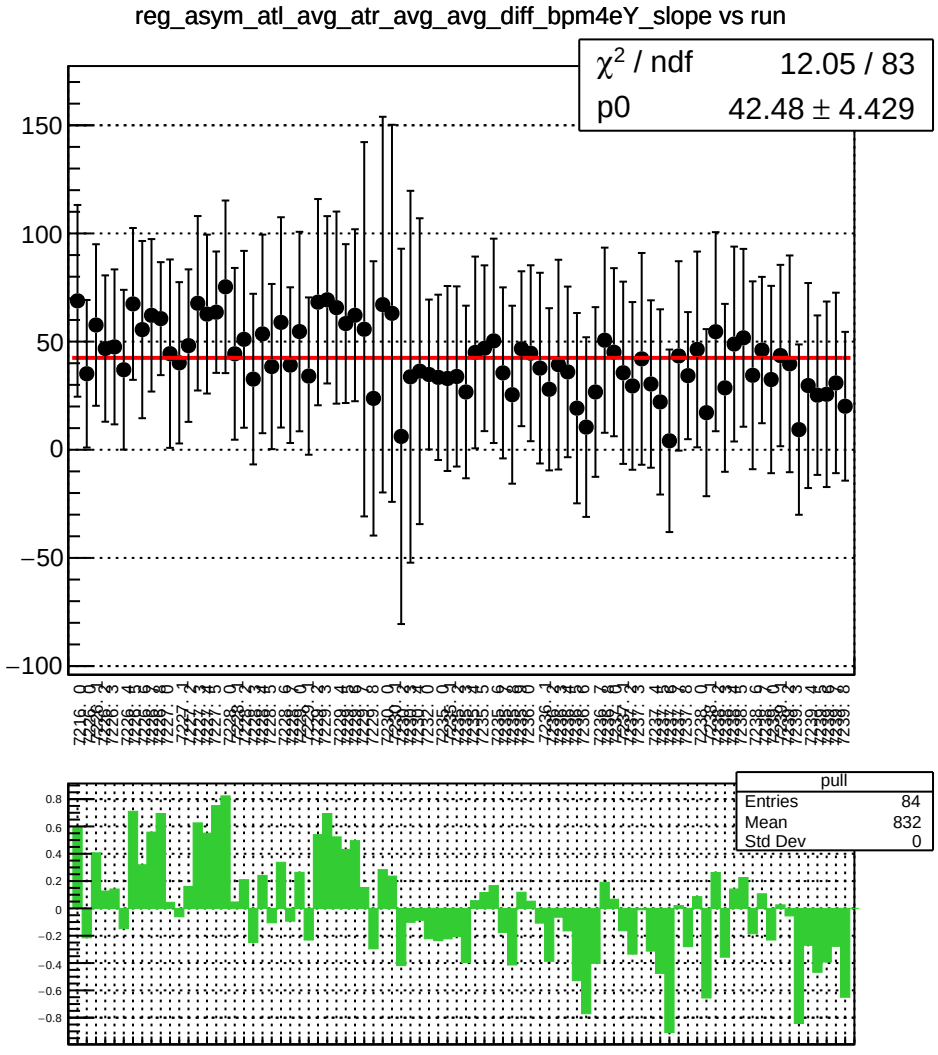

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 15.37 / 83
p0 −251.7 ± 5.373
pull
Entries 84
Mean 547.6
Std Dev 0

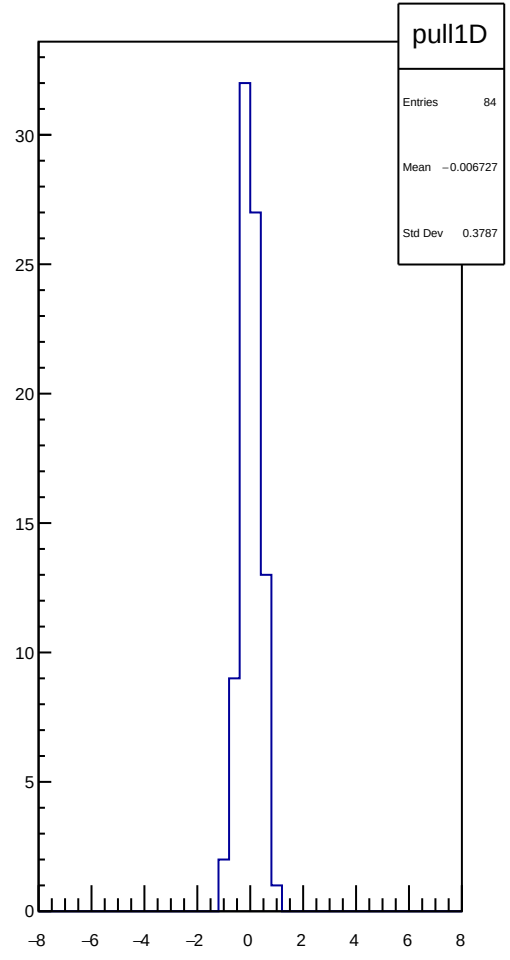

pull1D
Entries 84
Mean −0.00879
Std Dev 0.4276

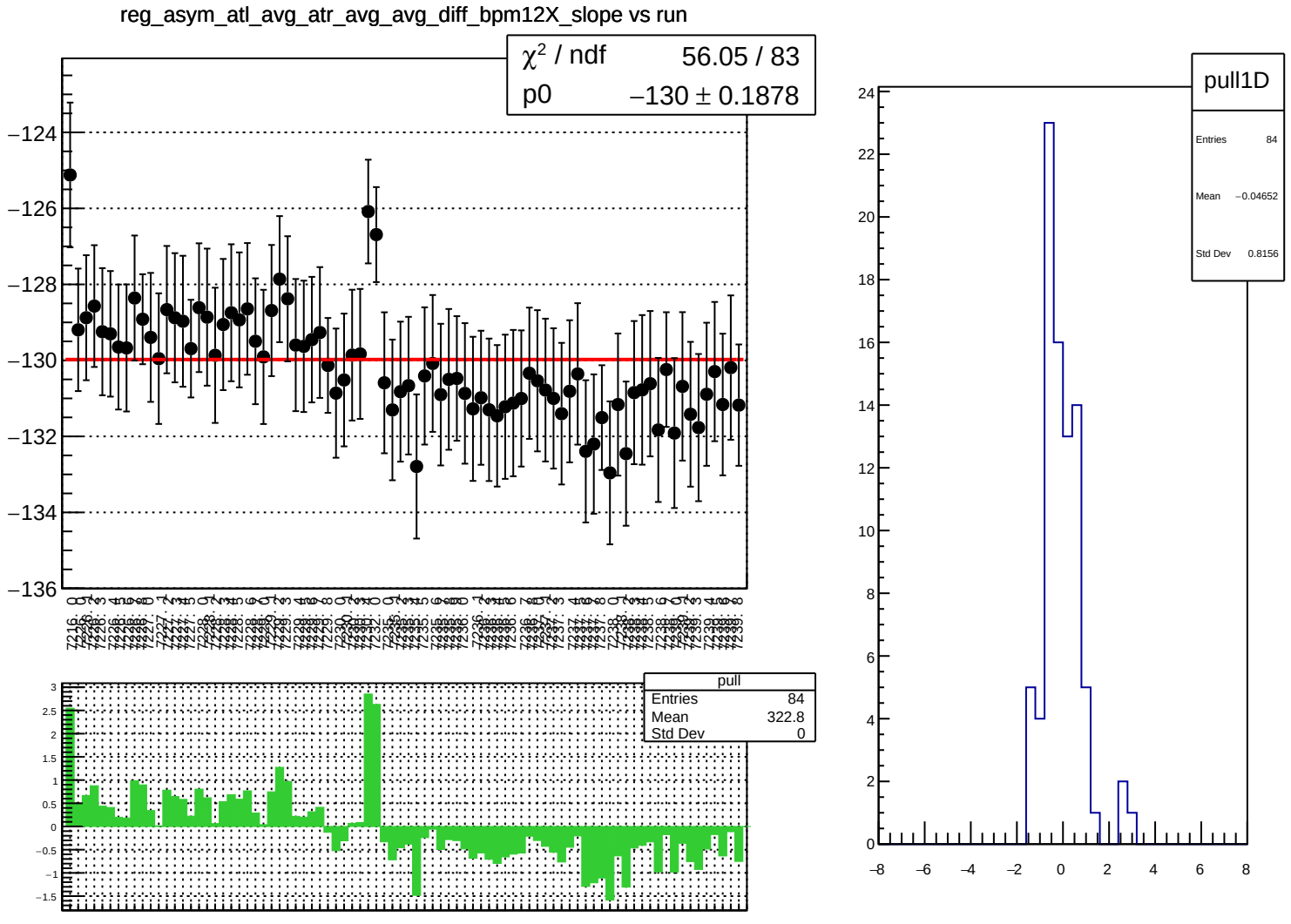

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.04 / 83
p0 18.35 ± 4.035
150
100
50
0
−50
−100
pull
Entries 84
Mean 785.8
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

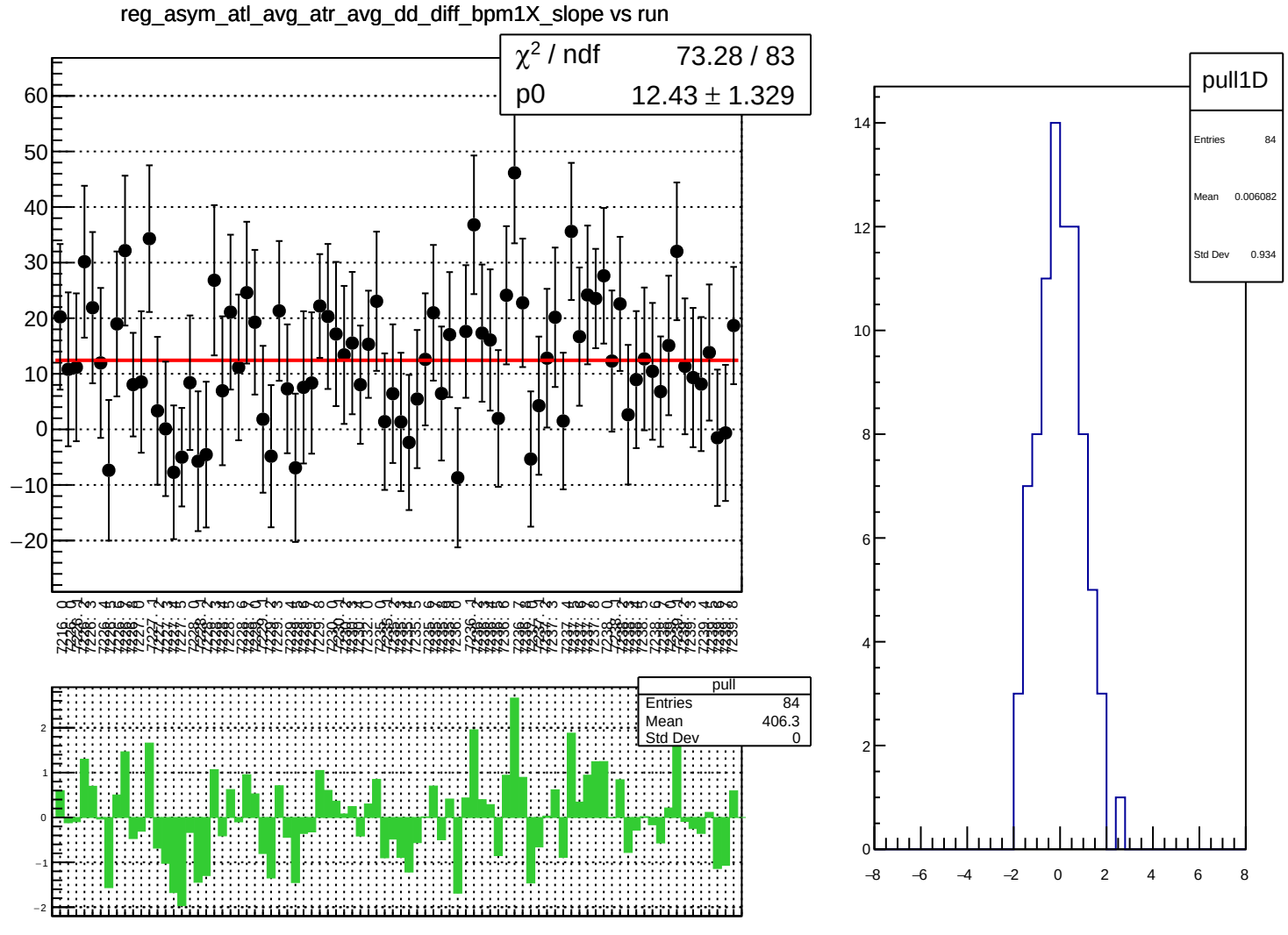

pull1D
Entries 84
Mean 0.008553
Std Dev 0.4088
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

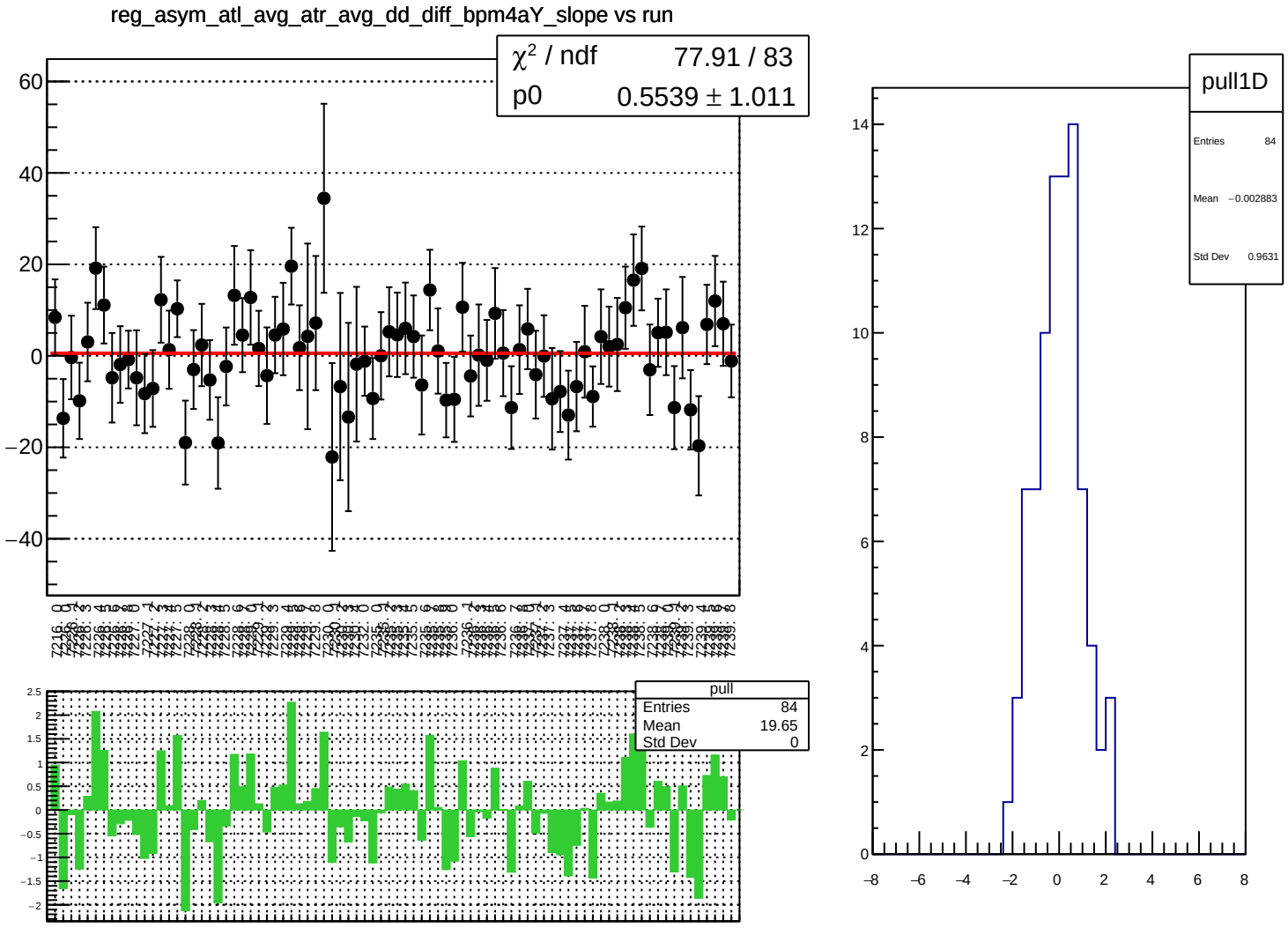

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 18.58 / 83
p0 260.2 ± 5.479
350
300
250
200
150
pull
Entries 84
Mean 544.7
Std Dev 0
0.5
0
−0.5
−1
−1.5
pull1D
Entries 84
Mean 0.01236
Std Dev 0.4702
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

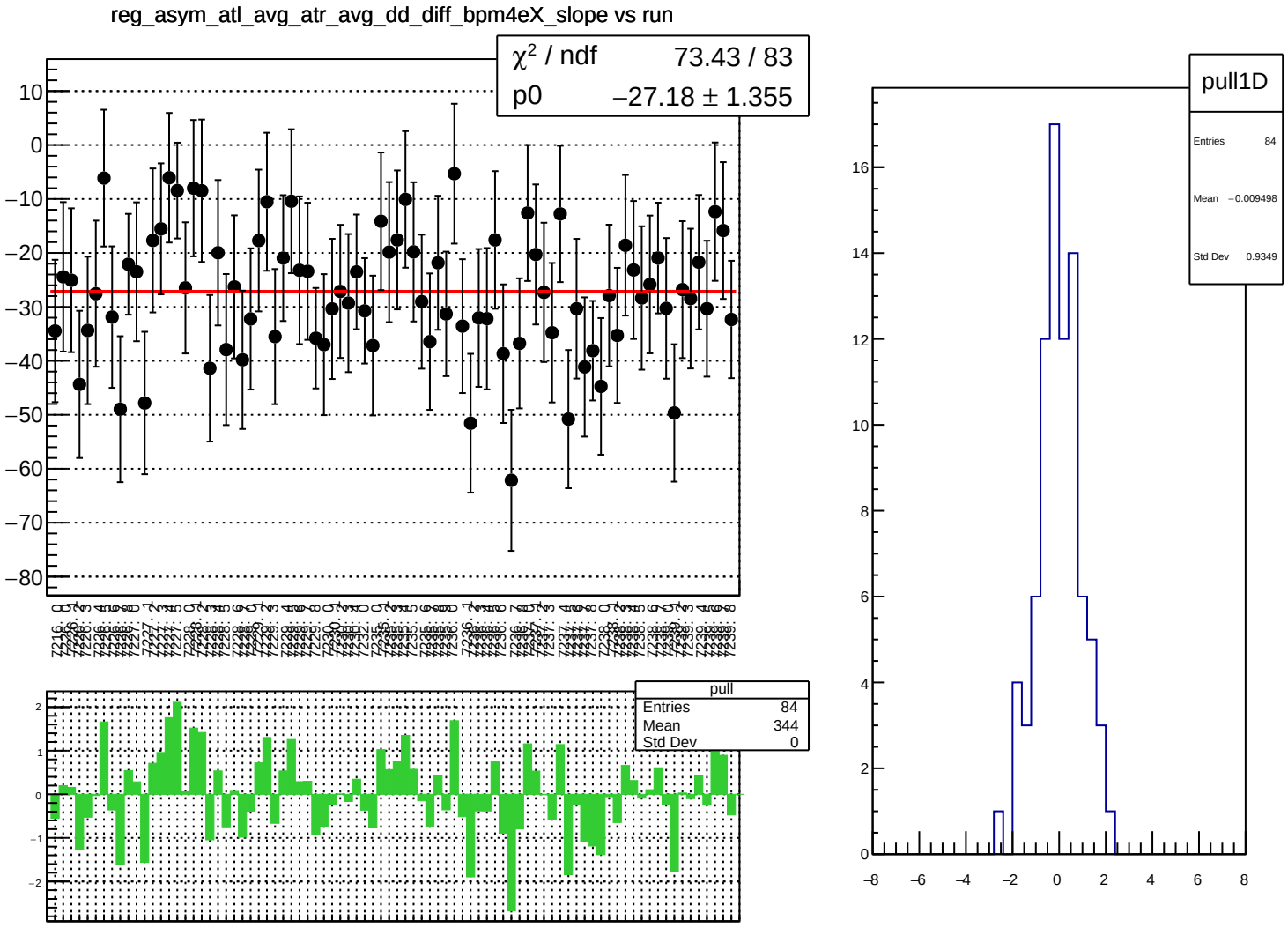

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.05 / 83
p0 42.48 ± 4.429
150
100
50
0
−50
−100
pull
Entries 84
Mean 832
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

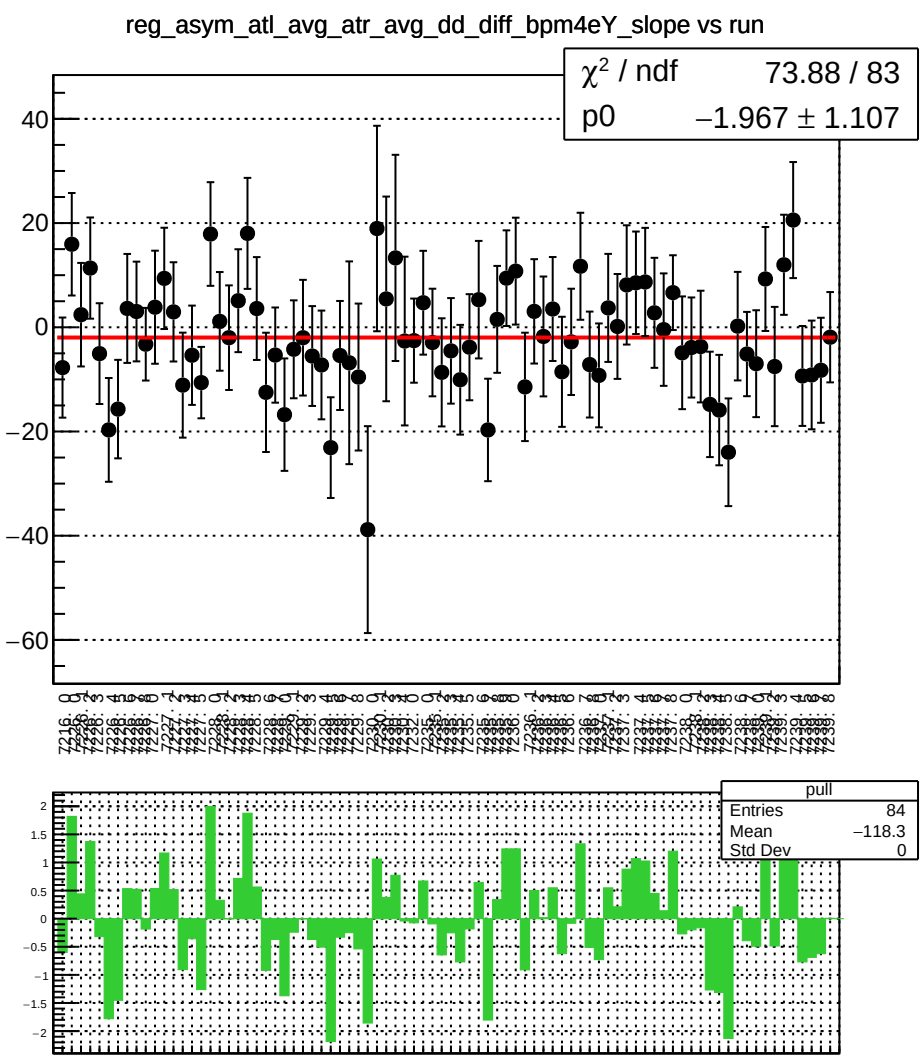

pull1D
Entries 84
Mean −0.006727
Std Dev 0.3787
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

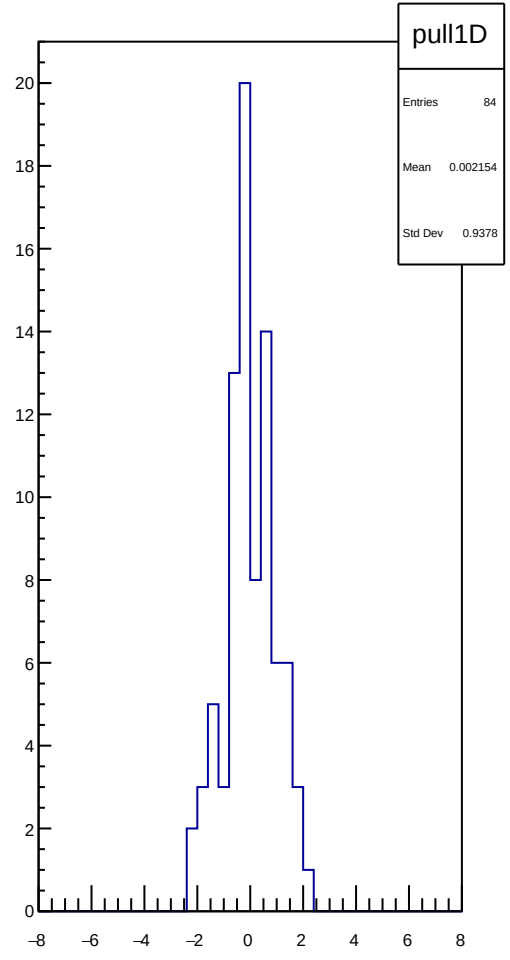

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 56.05 / 83
p0 −130 ± 0.1878
pull
Entries 84
Mean 322.8
Std Dev 0
pull1D
Entries 84
Mean −0.04652
Std Dev 0.8156

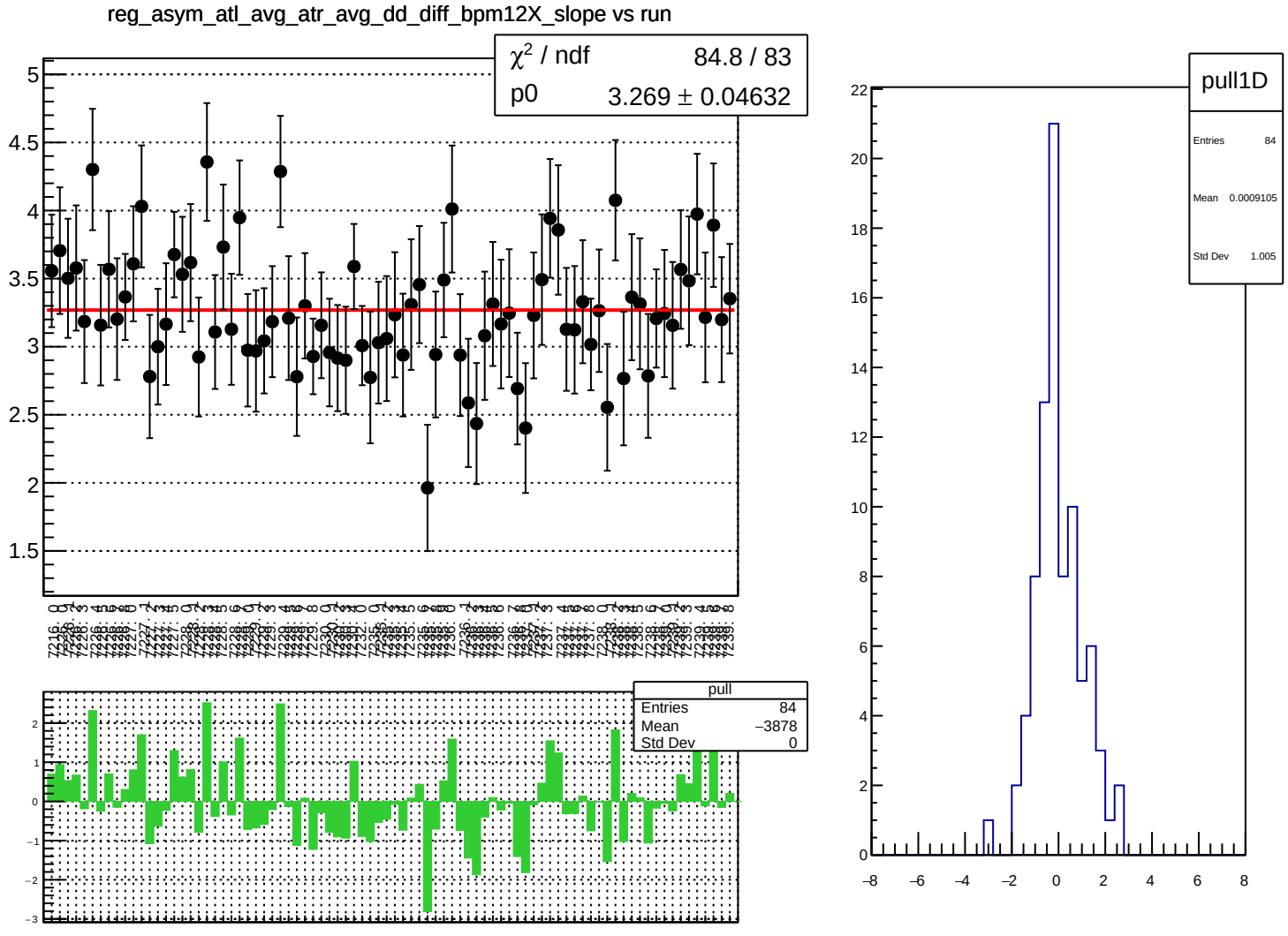

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 73.28 / 83
p0 12.43 ± 1.329
pull
Entries 84
Mean 406.3
Std Dev 0
pull1D
Entries 84
Mean 0.006082
Std Dev 0.934

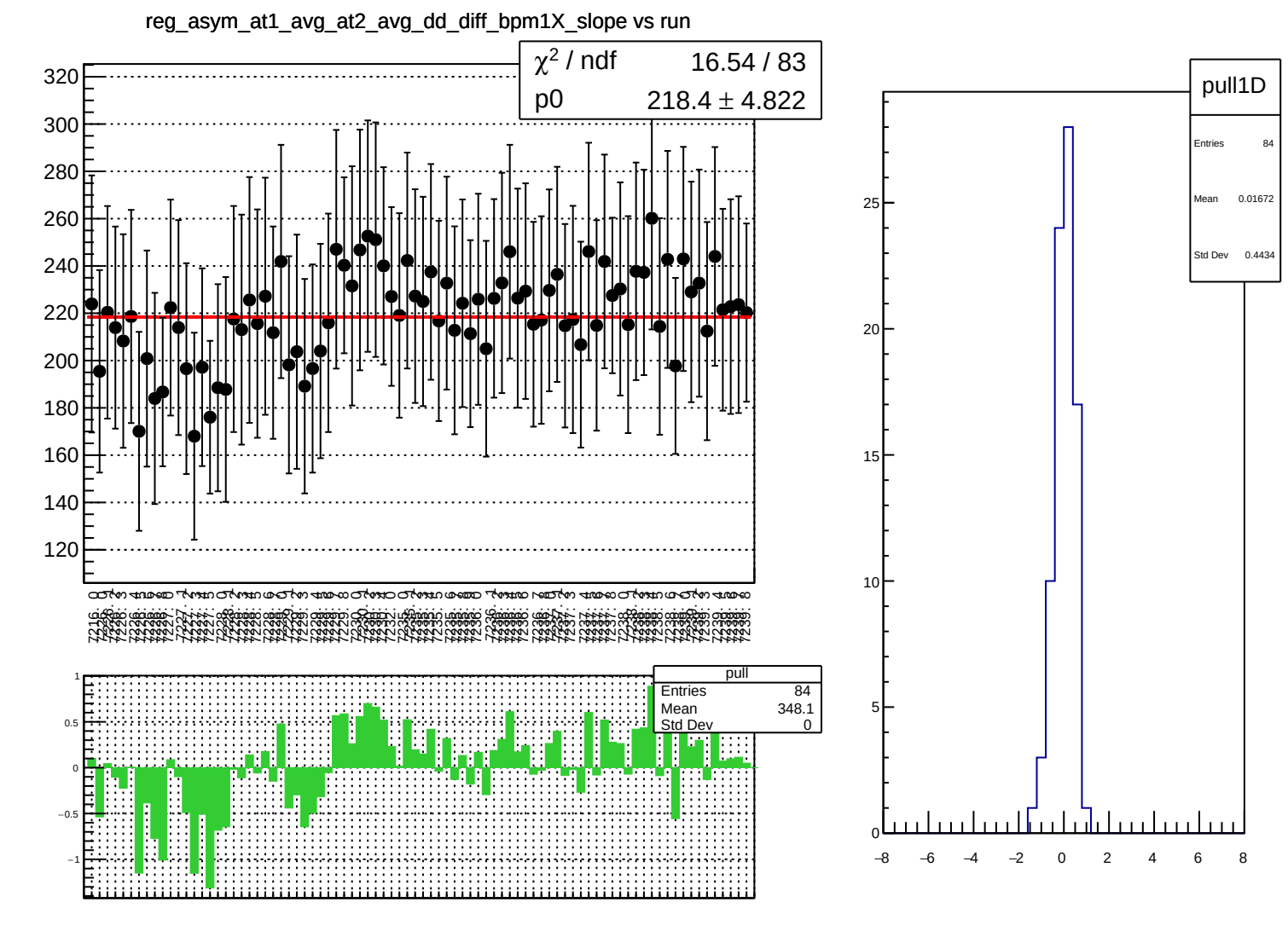

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 77.91 / 83
p0 0.5539 ± 1.011
pull
Entries 84
Mean 19.65
Std Dev 0
pull1D
Entries 84
Mean −0.002883
Std Dev 0.9631

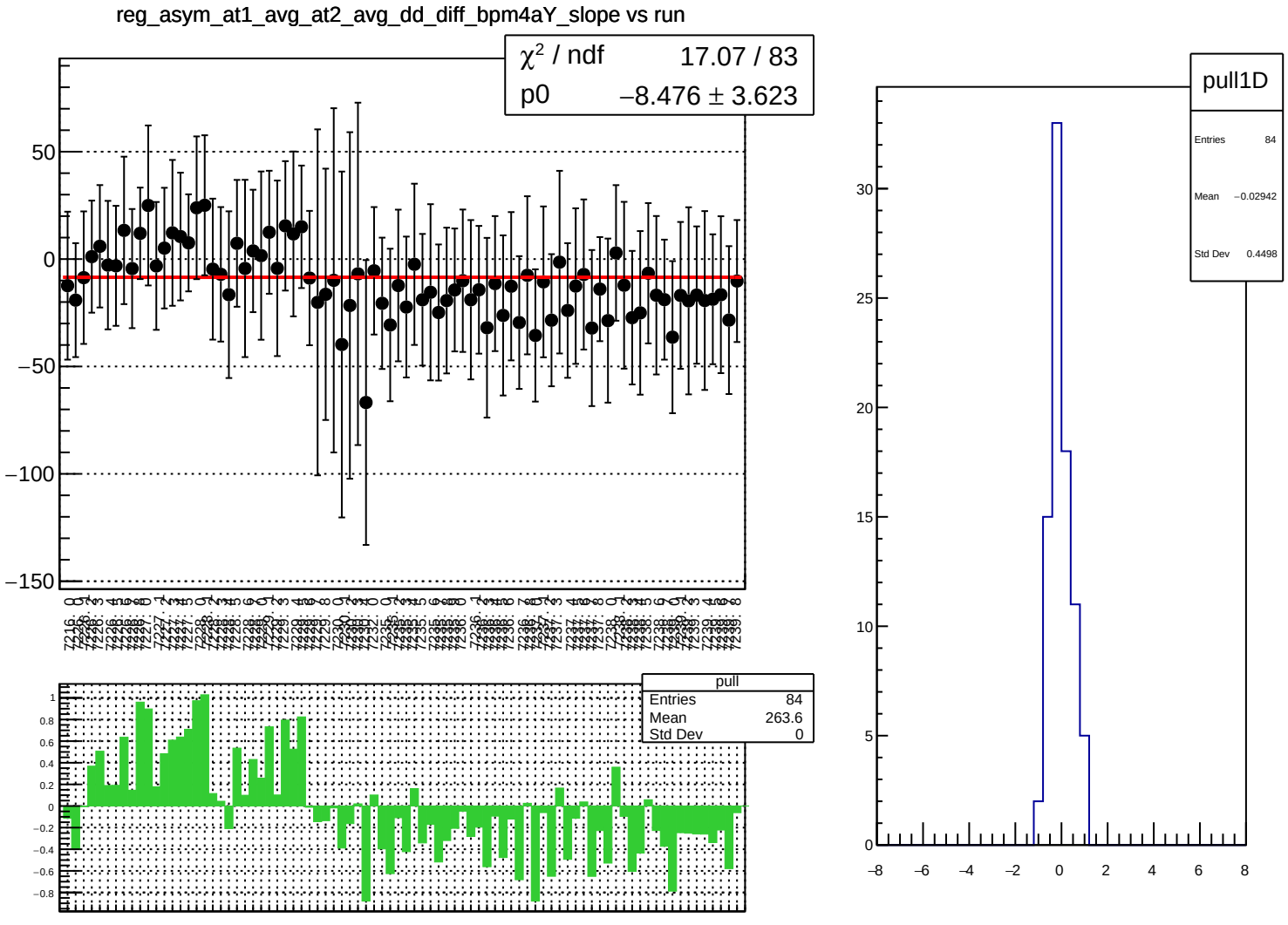

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 73.43 / 83
p0 −27.18 ± 1.355
pull
Entries 84
Mean 344
Std Dev 0
pull1D
Entries 84
Mean −0.009498
Std Dev 0.9349

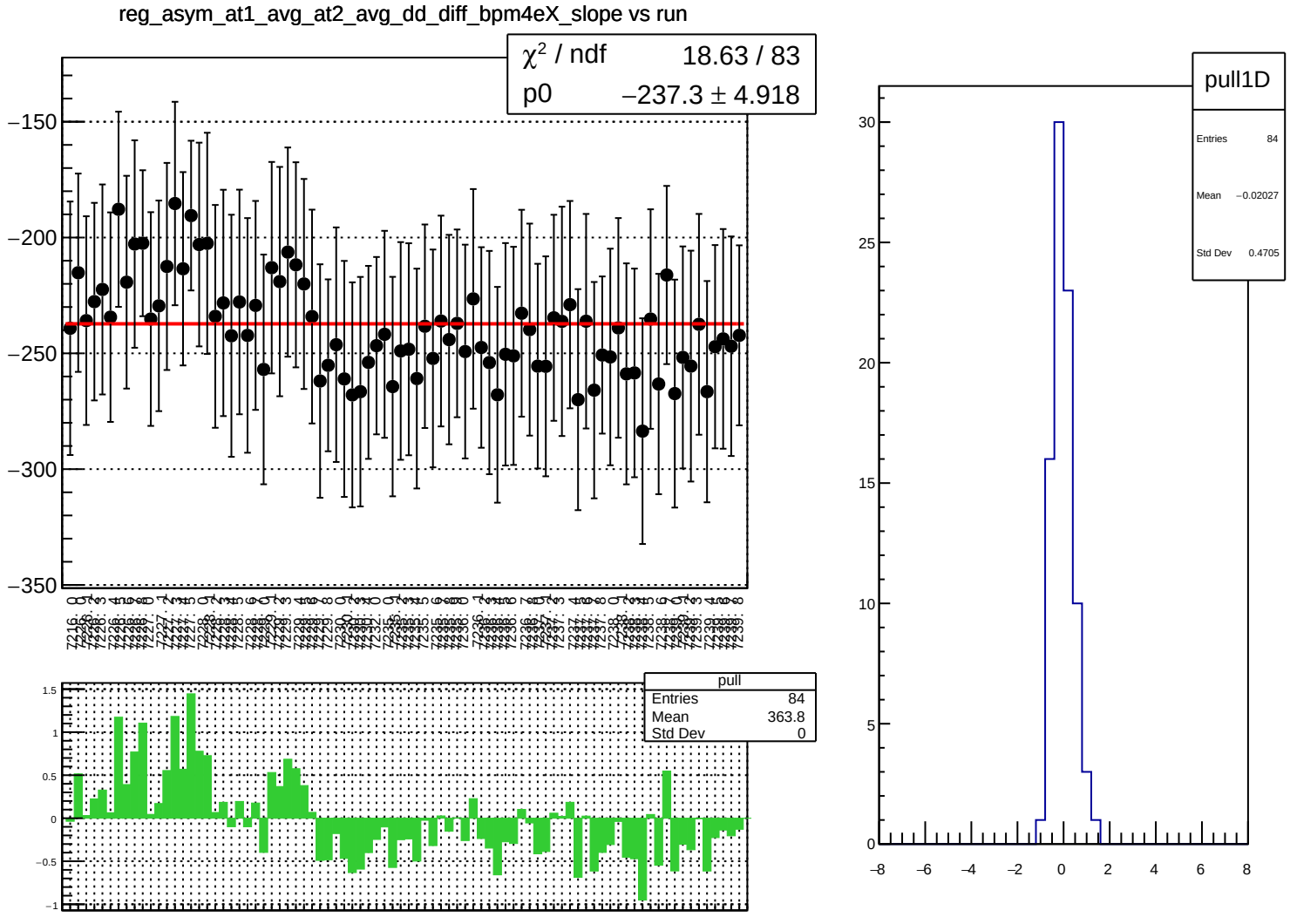

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 73.88 / 83
p0 −1.967 ± 1.107
pull
Entries 84
Mean −118.3
Std Dev 0

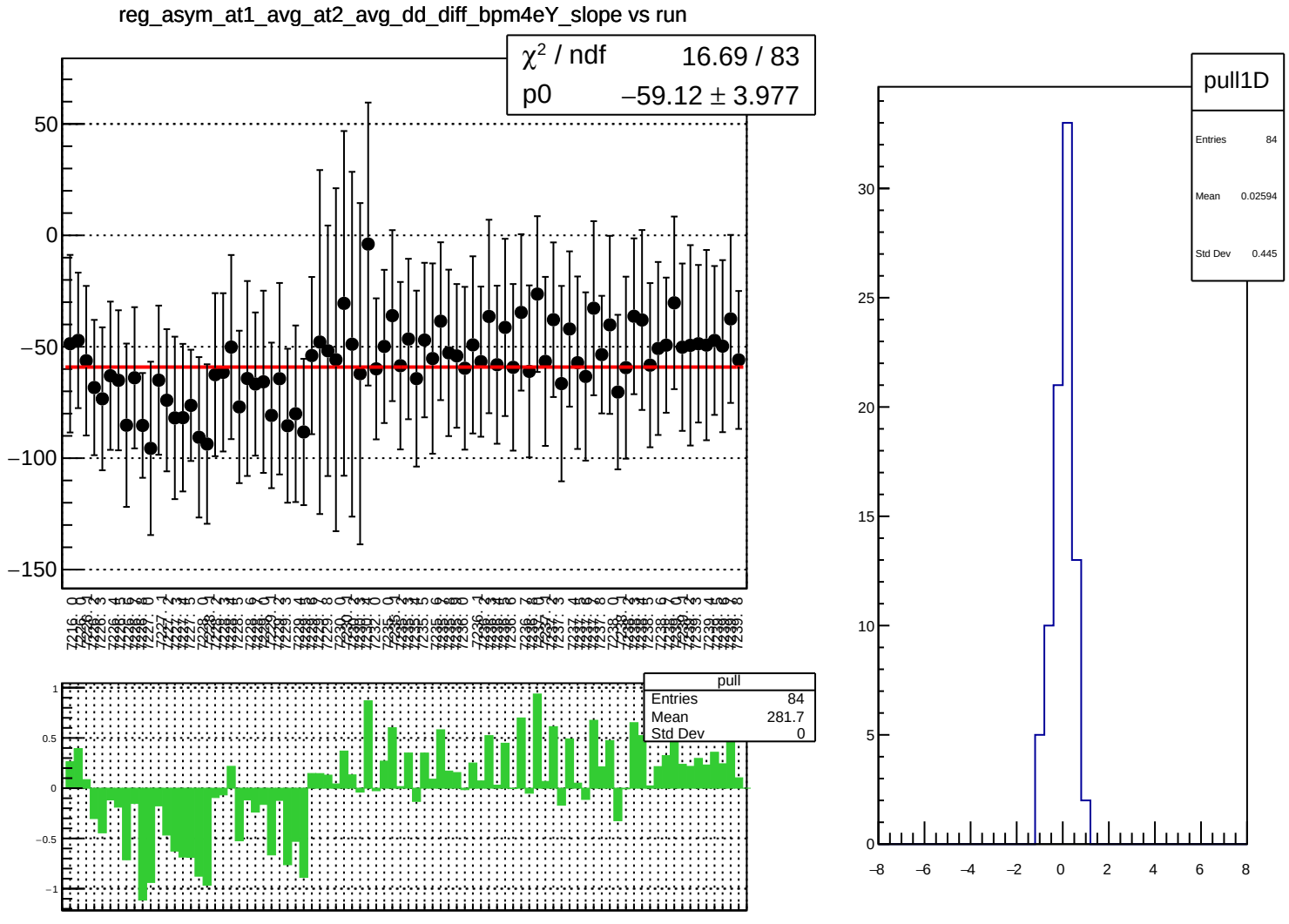

pull1D
Entries 84
Mean 0.002154
Std Dev 0.9378

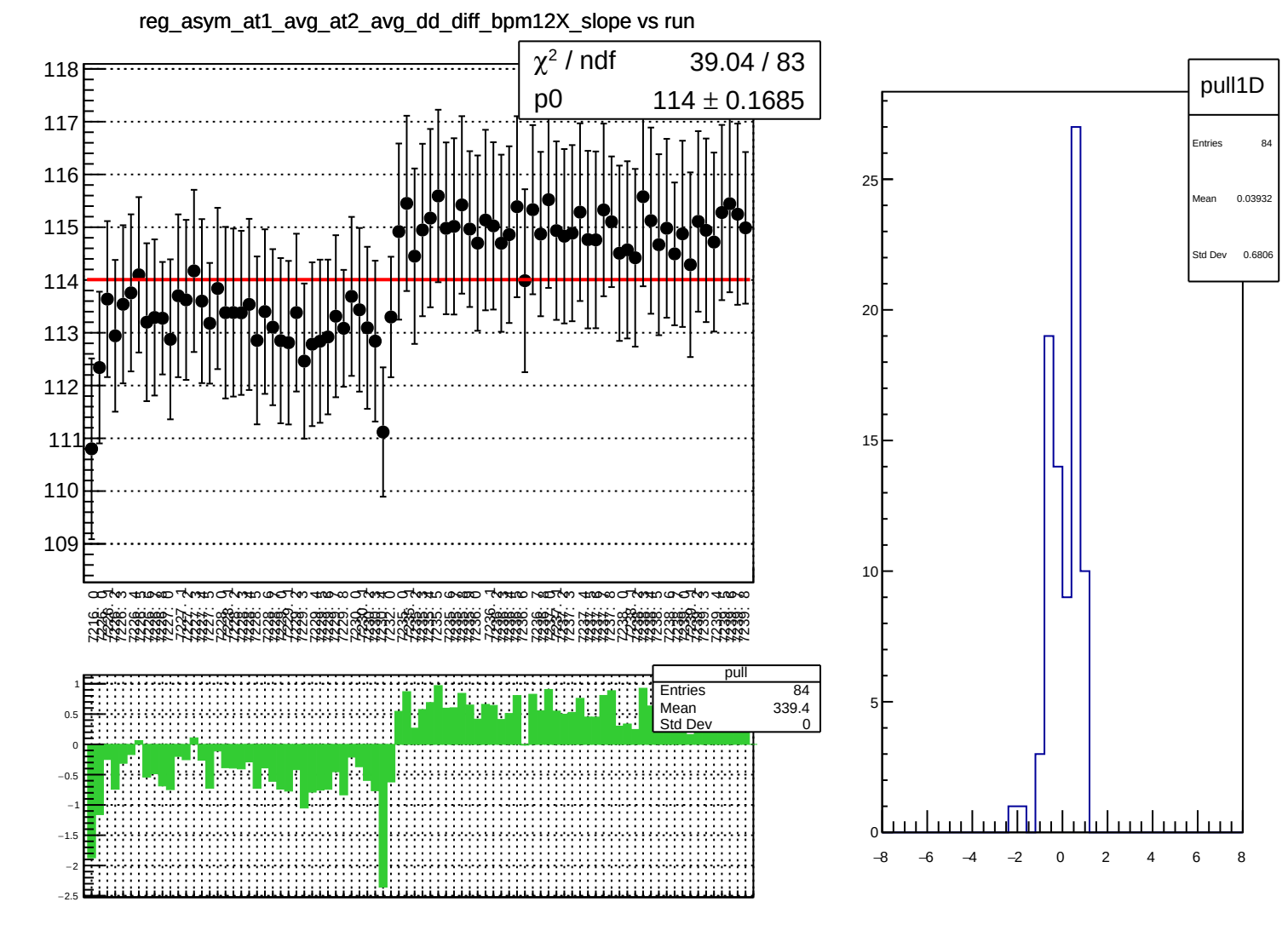

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 84.8 / 83
p0 3.269 ± 0.04632
pull
Entries 84
Mean −3878
Std Dev 0
pull1D
Entries 84
Mean 0.0009105
Std Dev 1.005

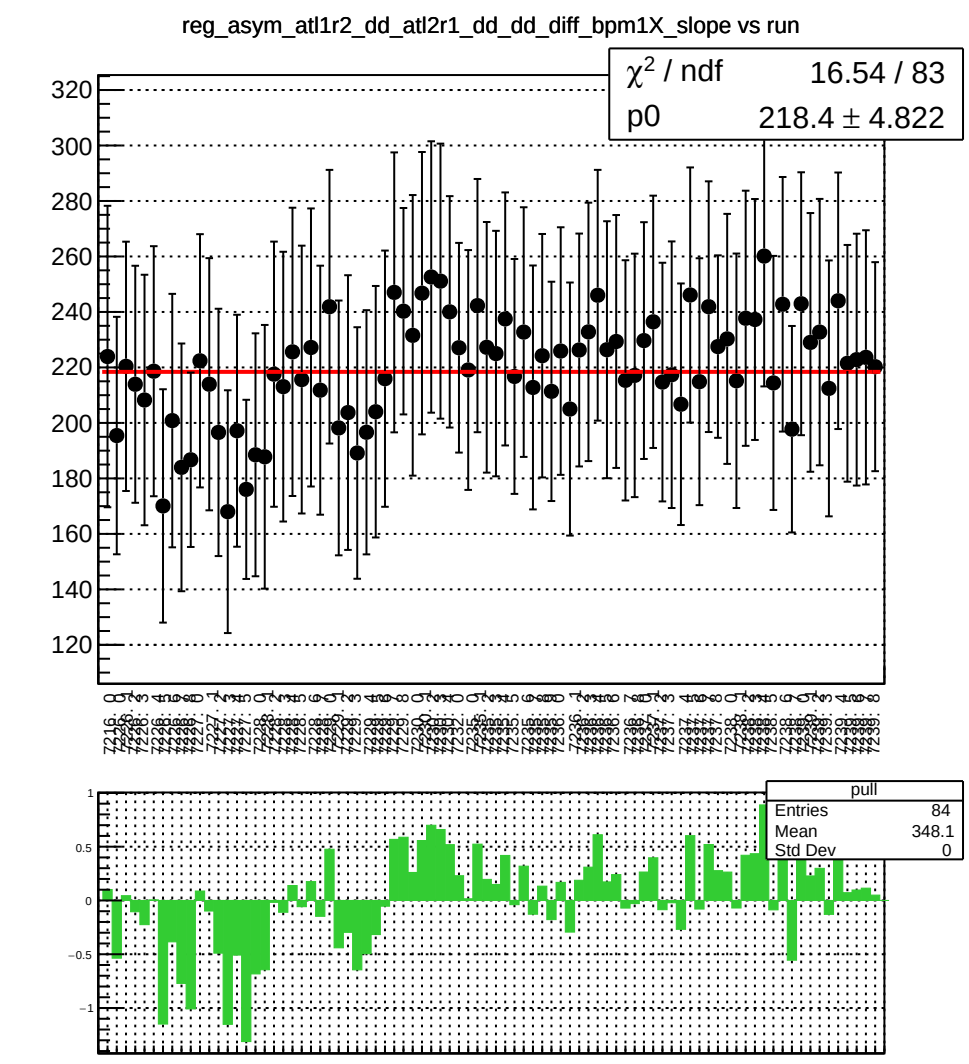

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 16.54 / 83
p0 218.4 ± 4.822
pull
Entries 84
Mean 348.1
Std Dev 0
pull1D
Entries 84
Mean 0.01672
Std Dev 0.4434

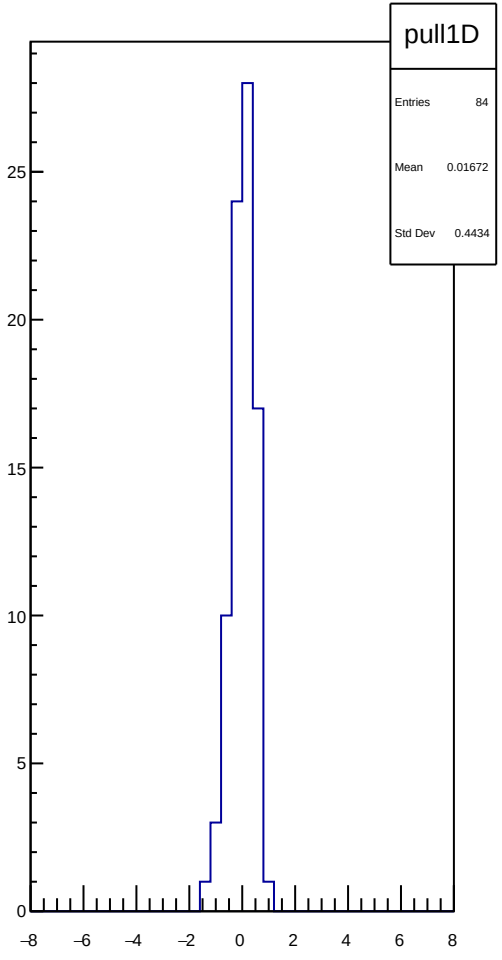

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.07 / 83
p0 −8.476 ± 3.623
pull
Entries 84
Mean 263.6
Std Dev 0
pull1D
Entries 84
Mean −0.02942
Std Dev 0.4498

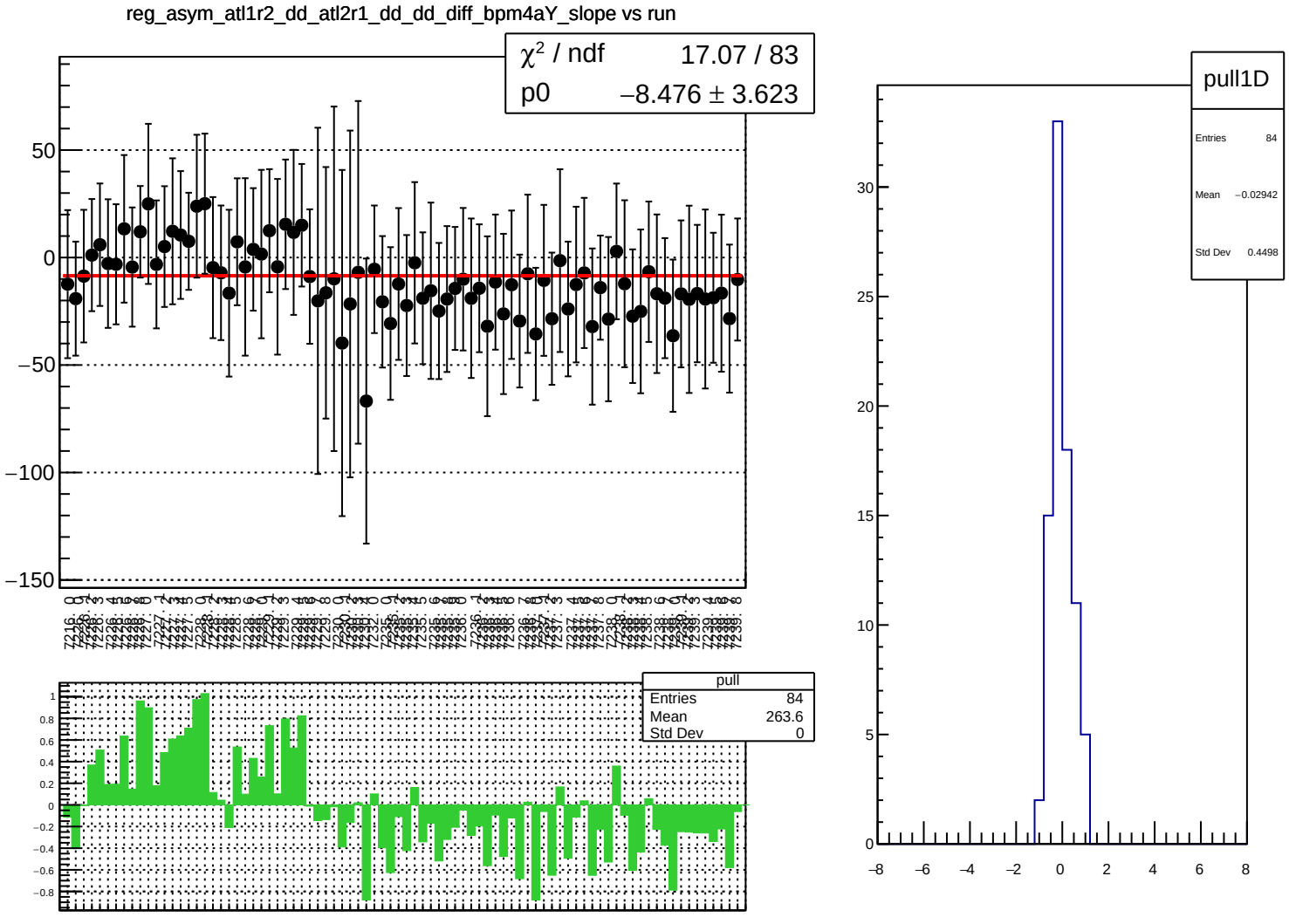

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 18.63 / 83
p0 −237.3 ± 4.918
−150
−200
−250
−300
−350
pull
Entries 84
Mean 363.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 84
Mean −0.02027
Std Dev 0.4705
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

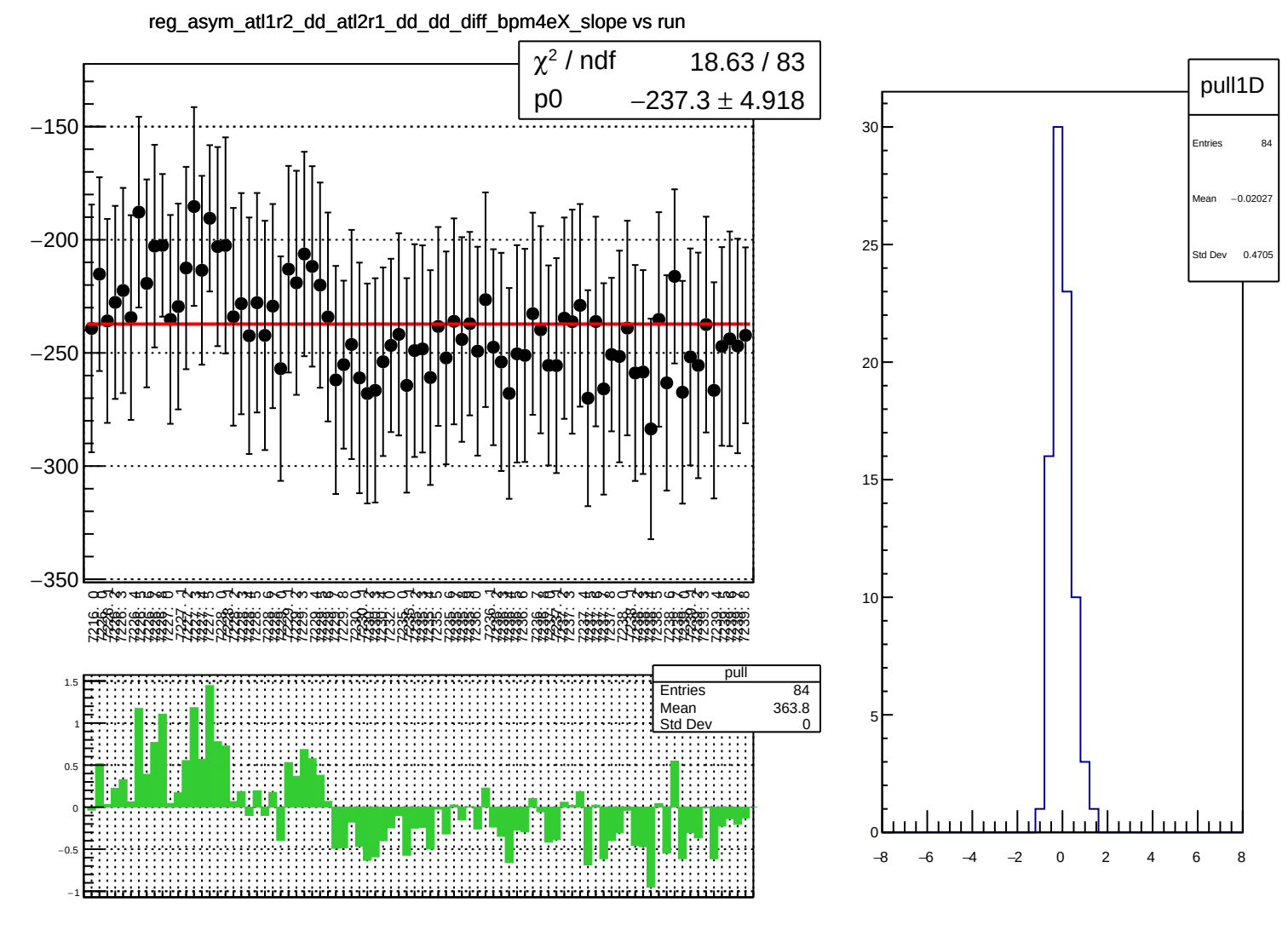

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 16.69 / 83
p0 −59.12 ± 3.977
pull
Entries 84
Mean 281.7
Std Dev 0
pull1D
Entries 84
Mean 0.02594
Std Dev 0.445

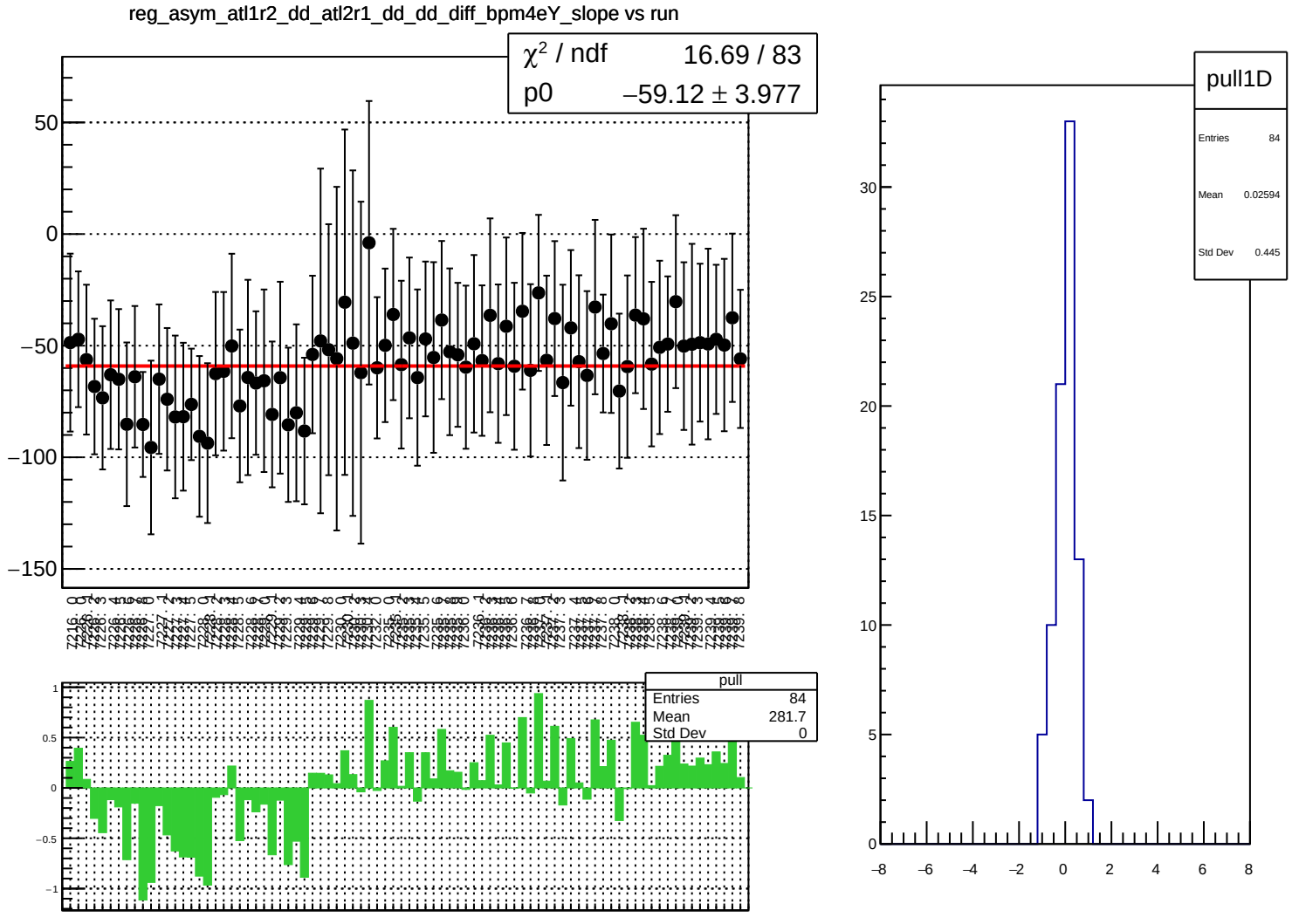

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 39.04 / 83
p0 114 ± 0.1685
pull
Entries 84
Mean 339.4
Std Dev 0
pull1D
Entries 84
Mean 0.03932
Std Dev 0.6806

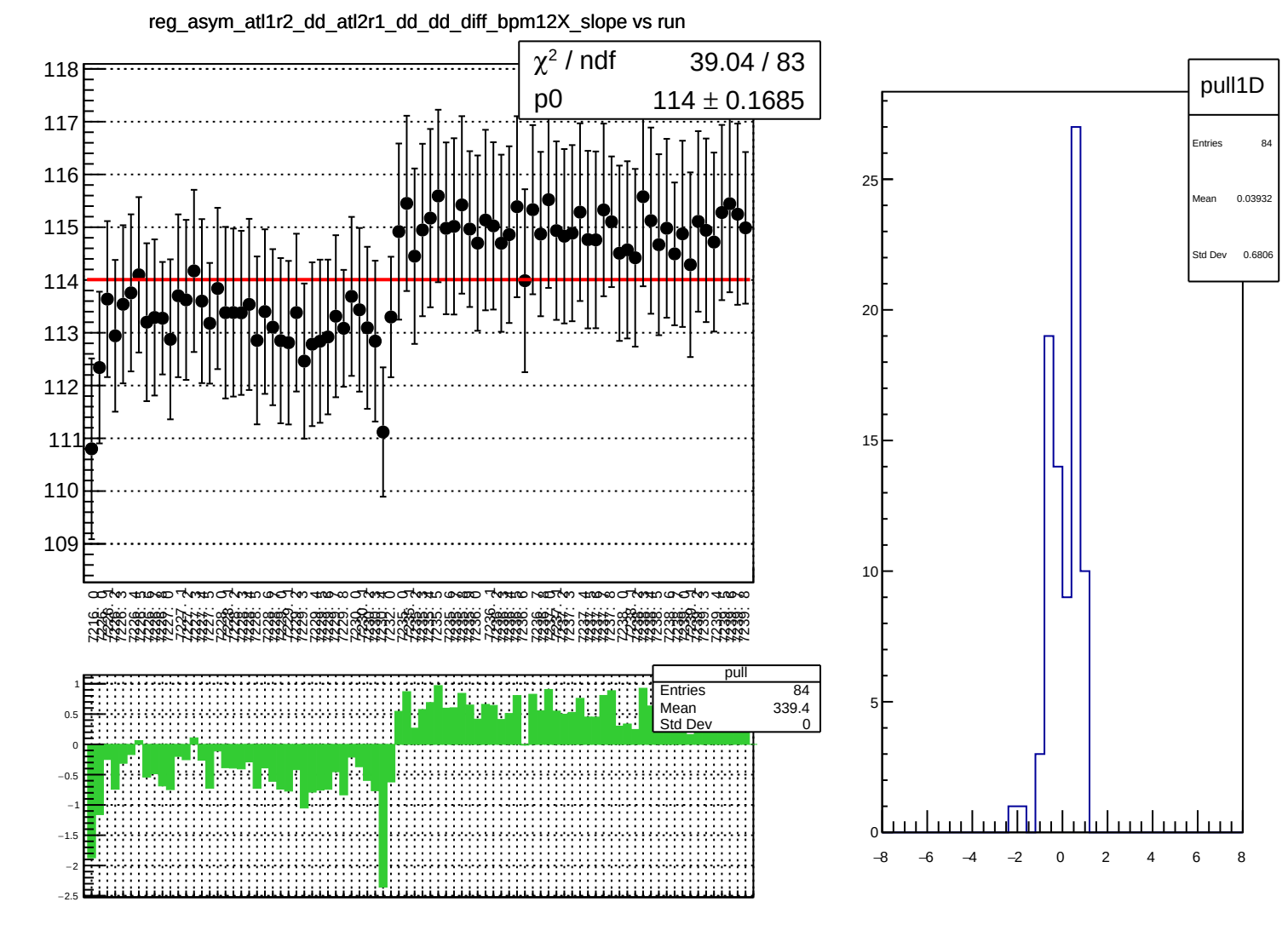

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 16.54 / 83
p0 218.4 ± 4.822
pull
Entries 84
Mean 348.1
Std Dev 0

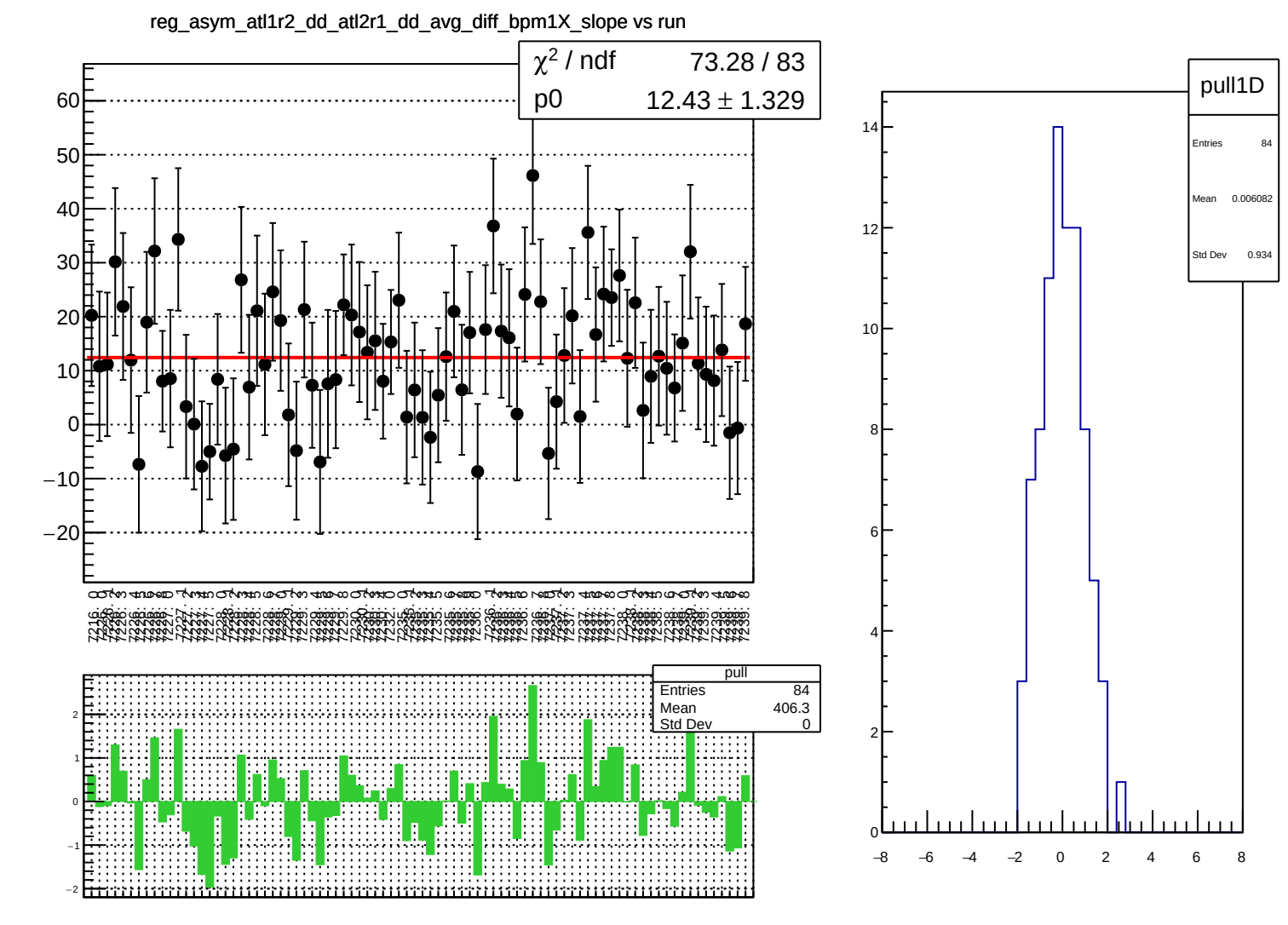

pull1D
Entries 84
Mean 0.01672
Std Dev 0.4434

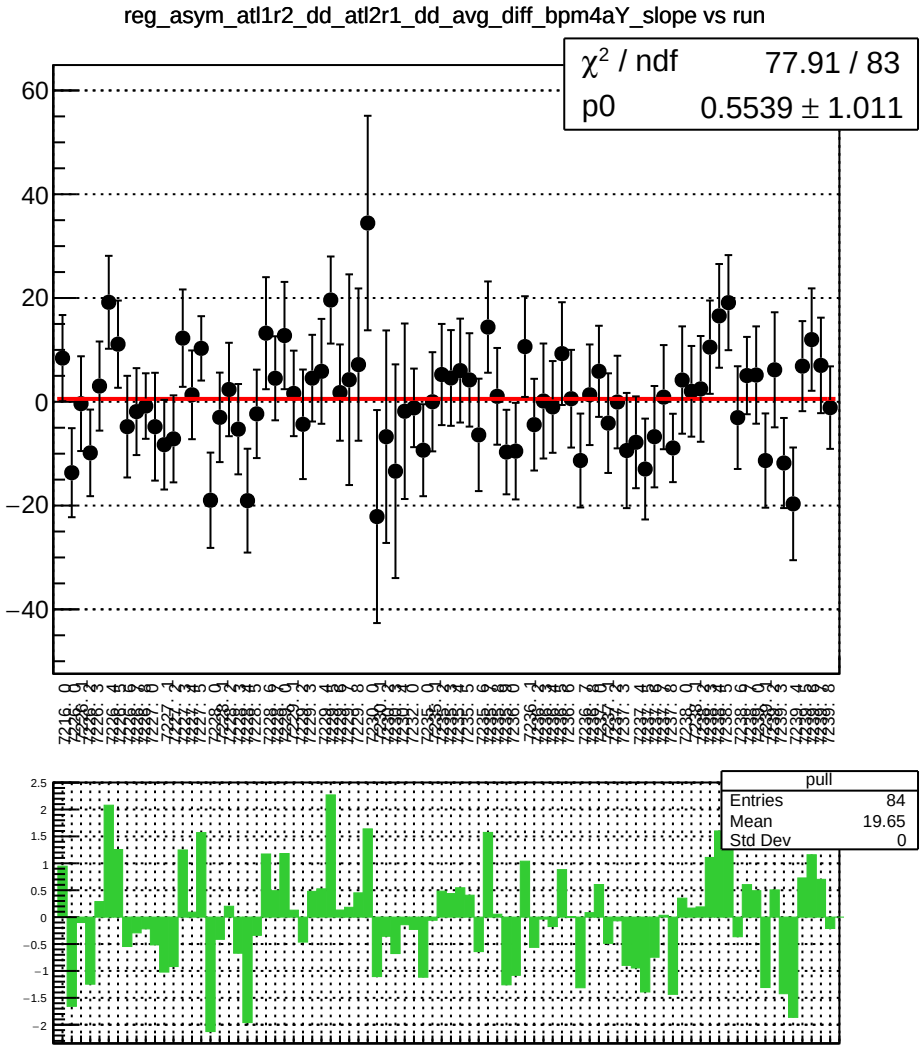

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.07 / 83
p0 −8.476 ± 3.623
pull
Entries 84
Mean 263.6
Std Dev 0
pull1D
Entries 84
Mean −0.02942
Std Dev 0.4498

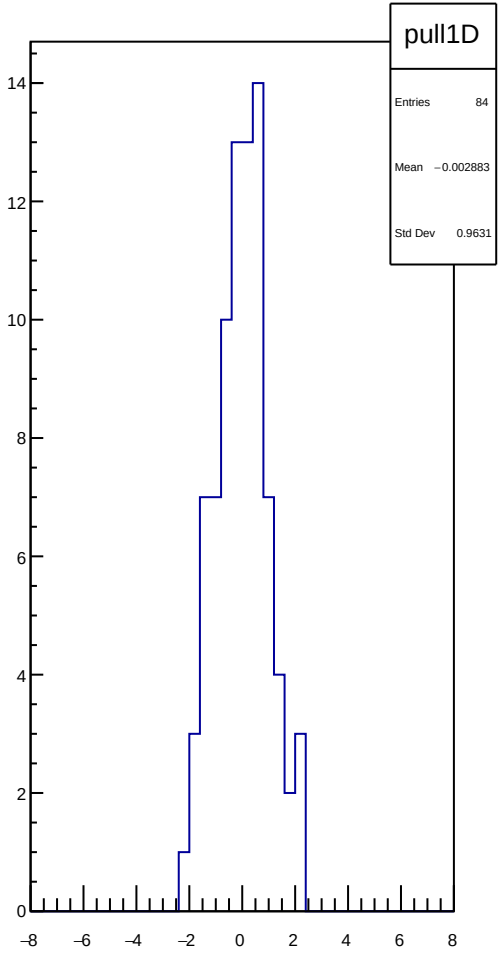

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 18.63 / 83
p0 −237.3 ± 4.918
pull
Entries 84
Mean 363.8
Std Dev 0
pull1D
Entries 84
Mean −0.02027
Std Dev 0.4705

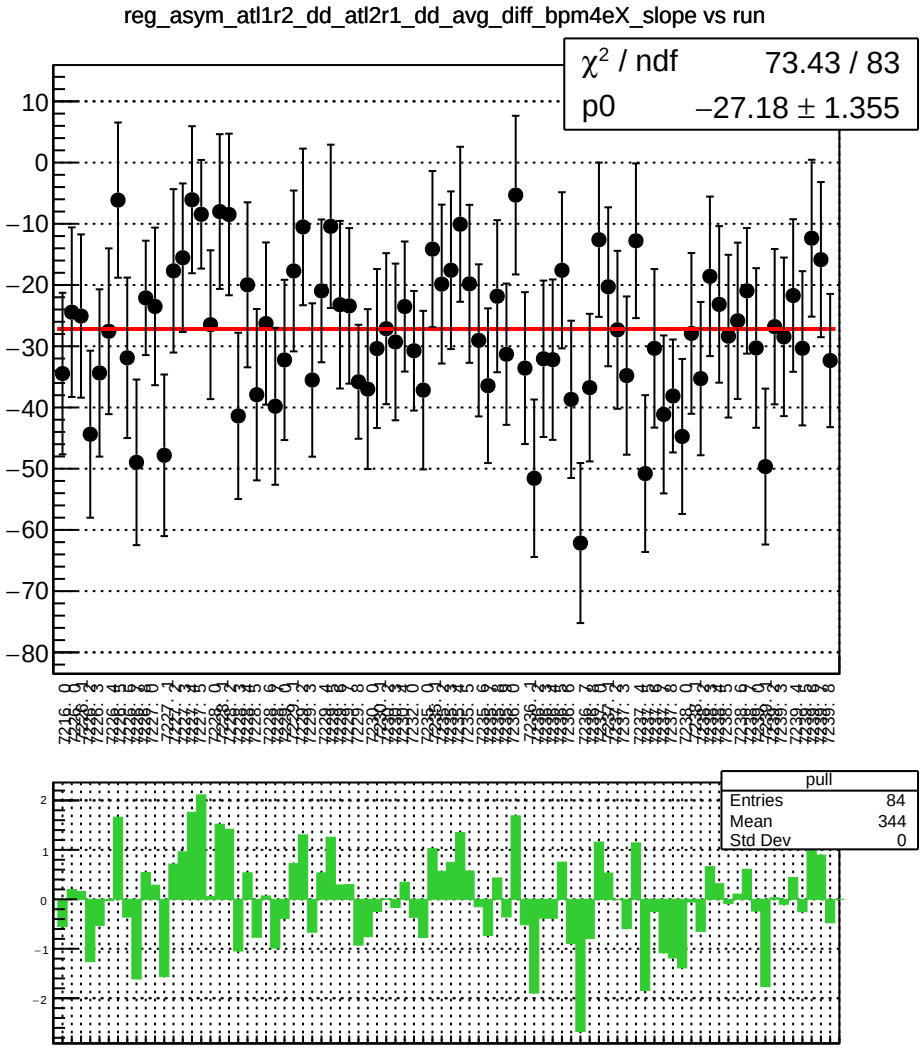

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 16.69 / 83
p0 −59.12 ± 3.977
50
0
−50
−100
−150
pull
Entries 84
Mean 281.7
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 84
Mean 0.02594
Std Dev 0.445
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

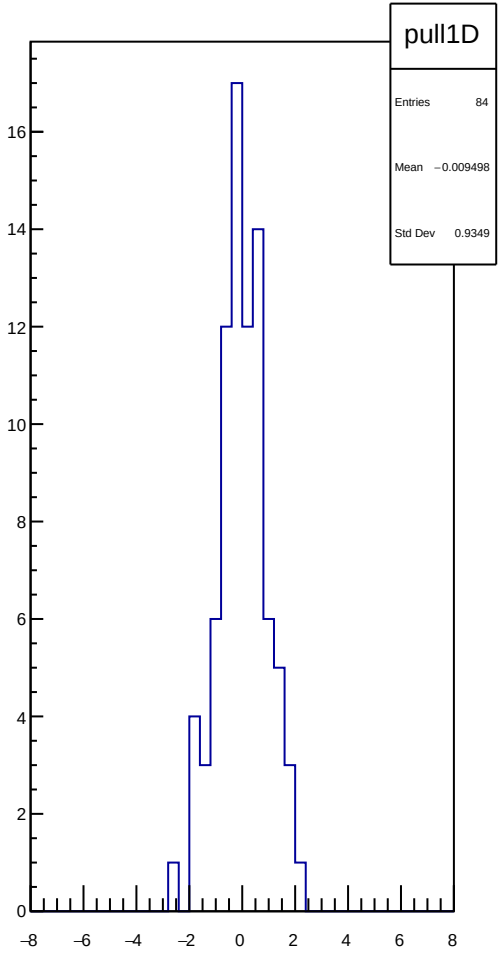

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 39.04 / 83
p0 114 ± 0.1685
pull
Entries 84
Mean 339.4
Std Dev 0
pull1D
Entries 84
Mean 0.03932
Std Dev 0.6806

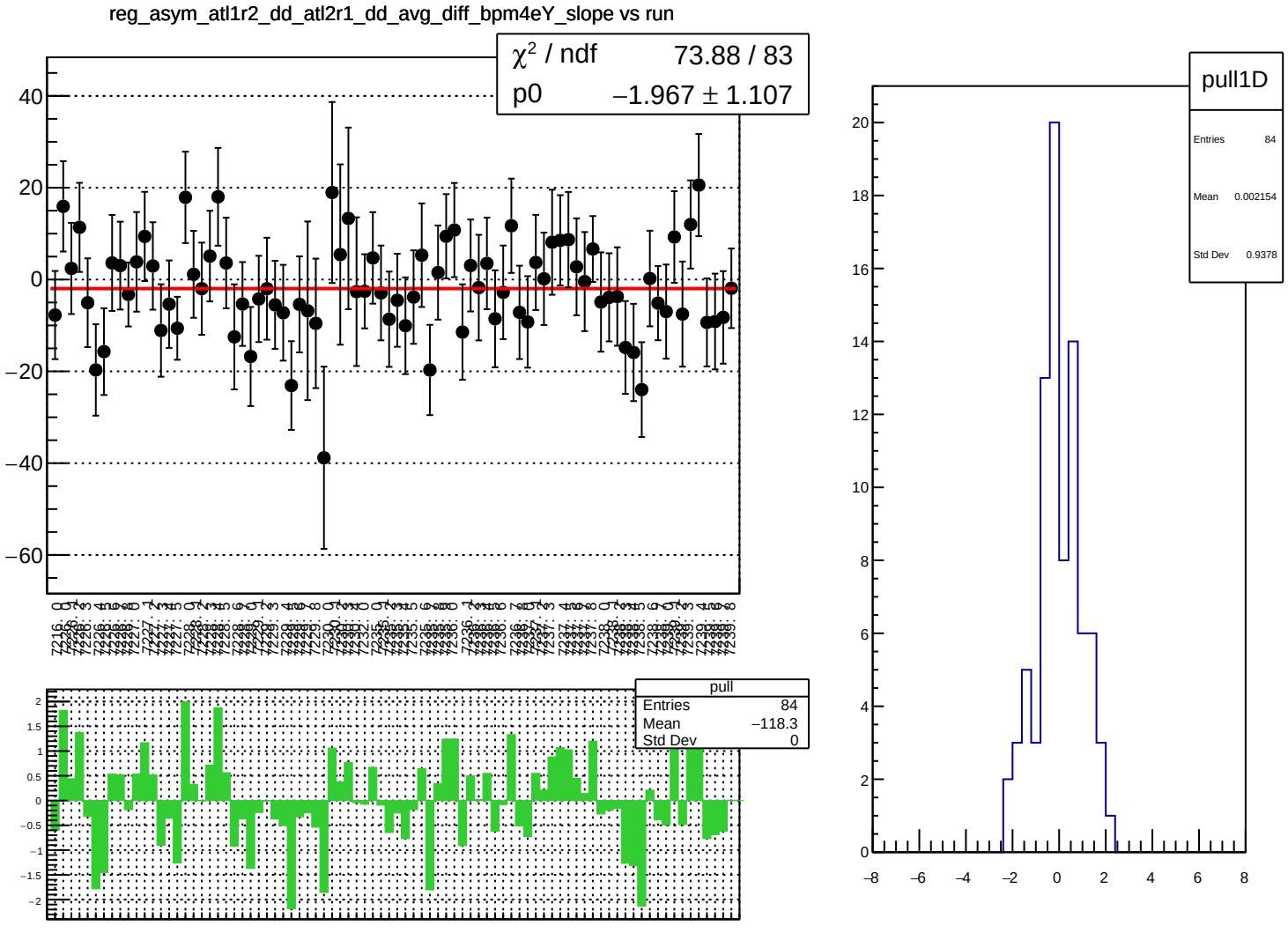

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 73.28 / 83
p0 12.43 ± 1.329
pull
Entries 84
Mean 406.3
Std Dev 0
pull1D
Entries 84
Mean 0.006082
Std Dev 0.934

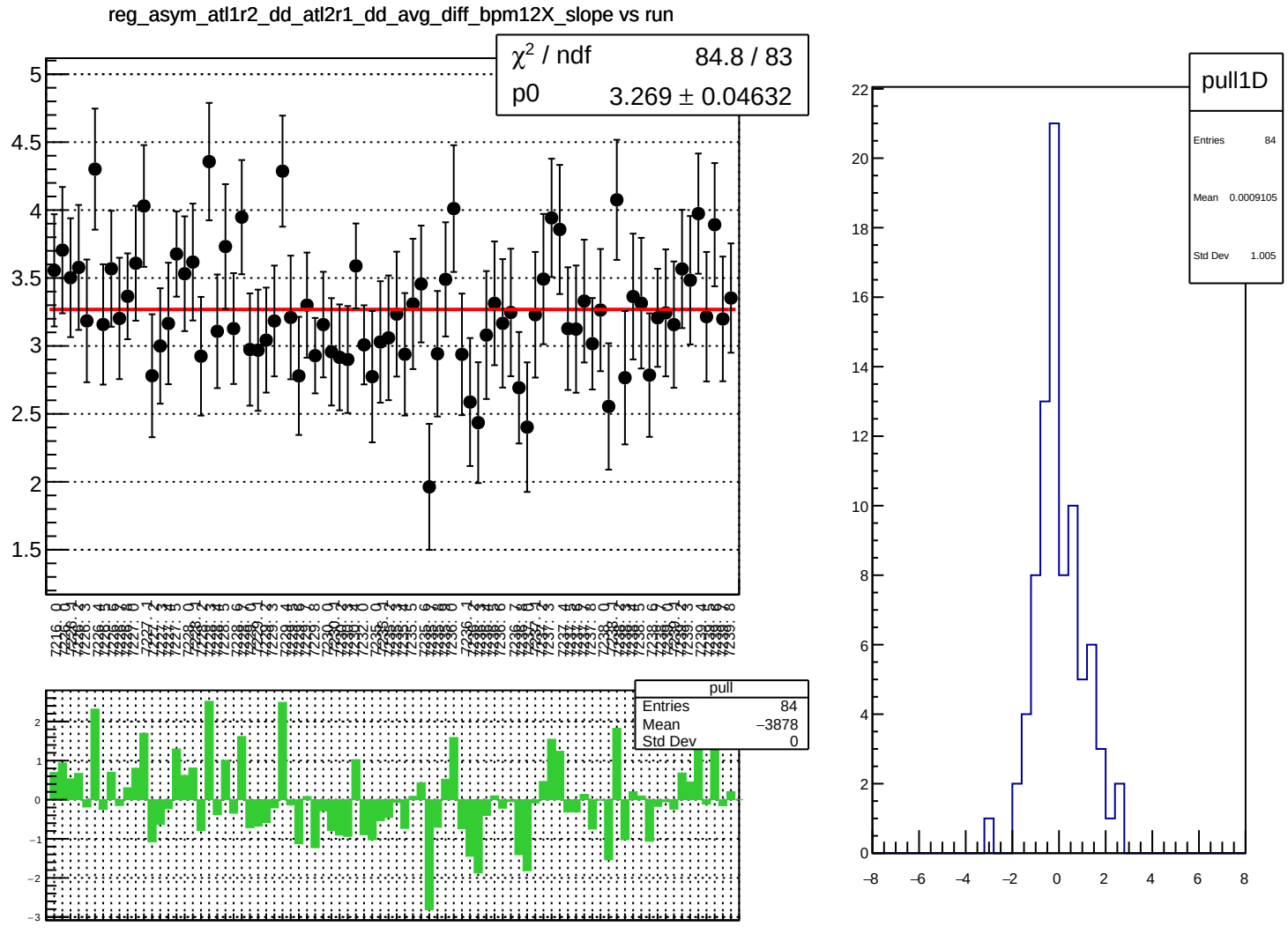

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 77.91 / 83
p0 0.5539 ± 1.011
pull
Entries 84
Mean 19.65
Std Dev 0

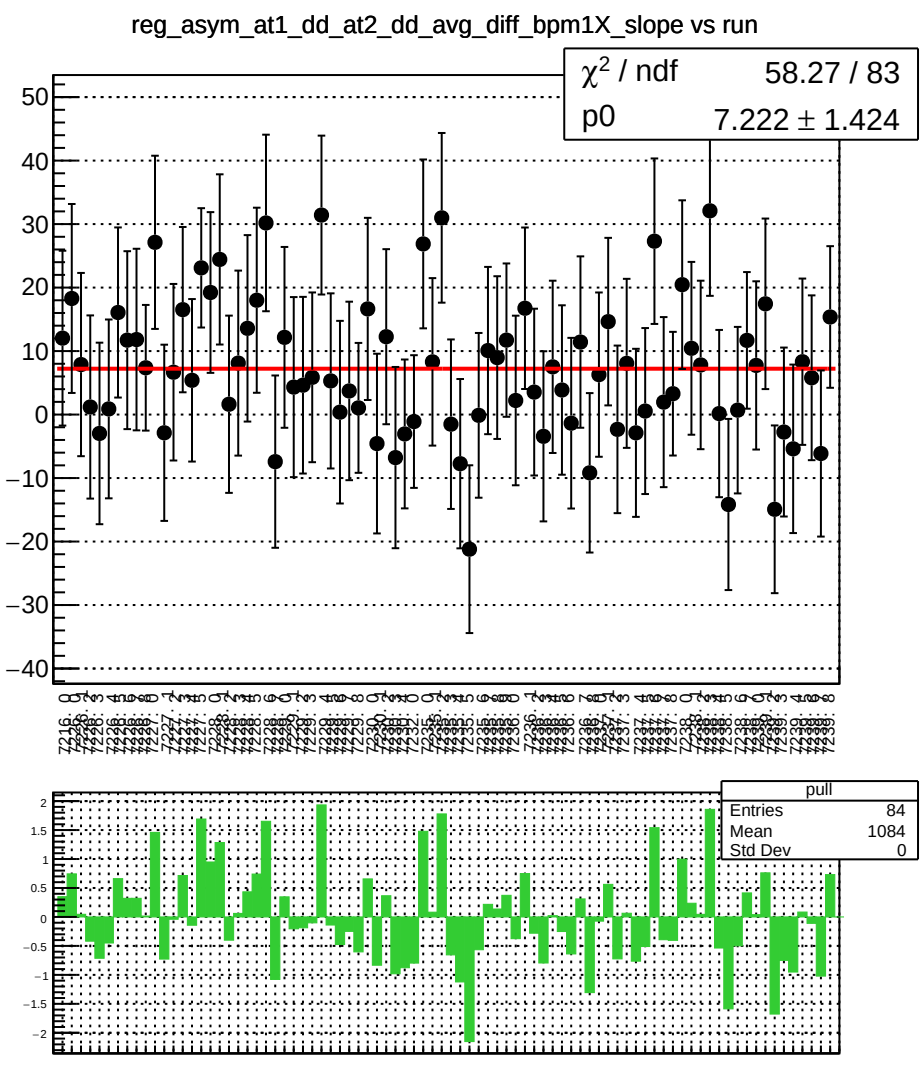

pull1D
Entries 84
Mean −0.002883
Std Dev 0.9631

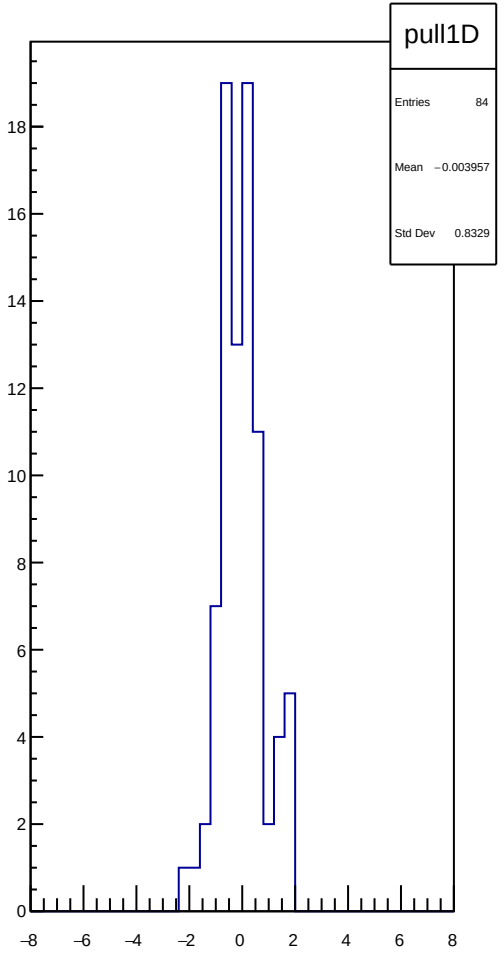

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 73.43 / 83
p0 −27.18 ± 1.355
pull
Entries 84
Mean 344
Std Dev 0

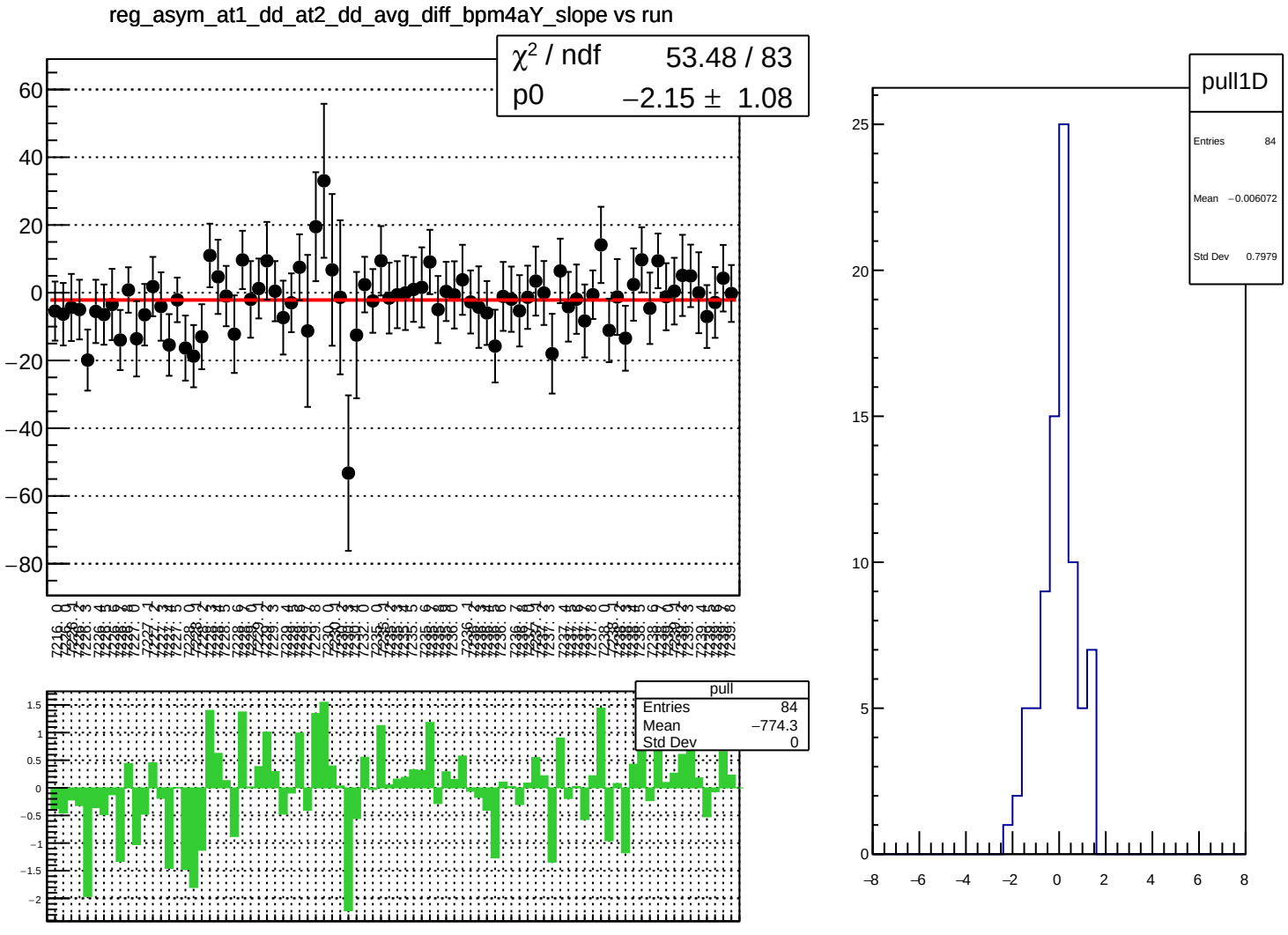

pull1D
Entries 84
Mean −0.009498
Std Dev 0.9349

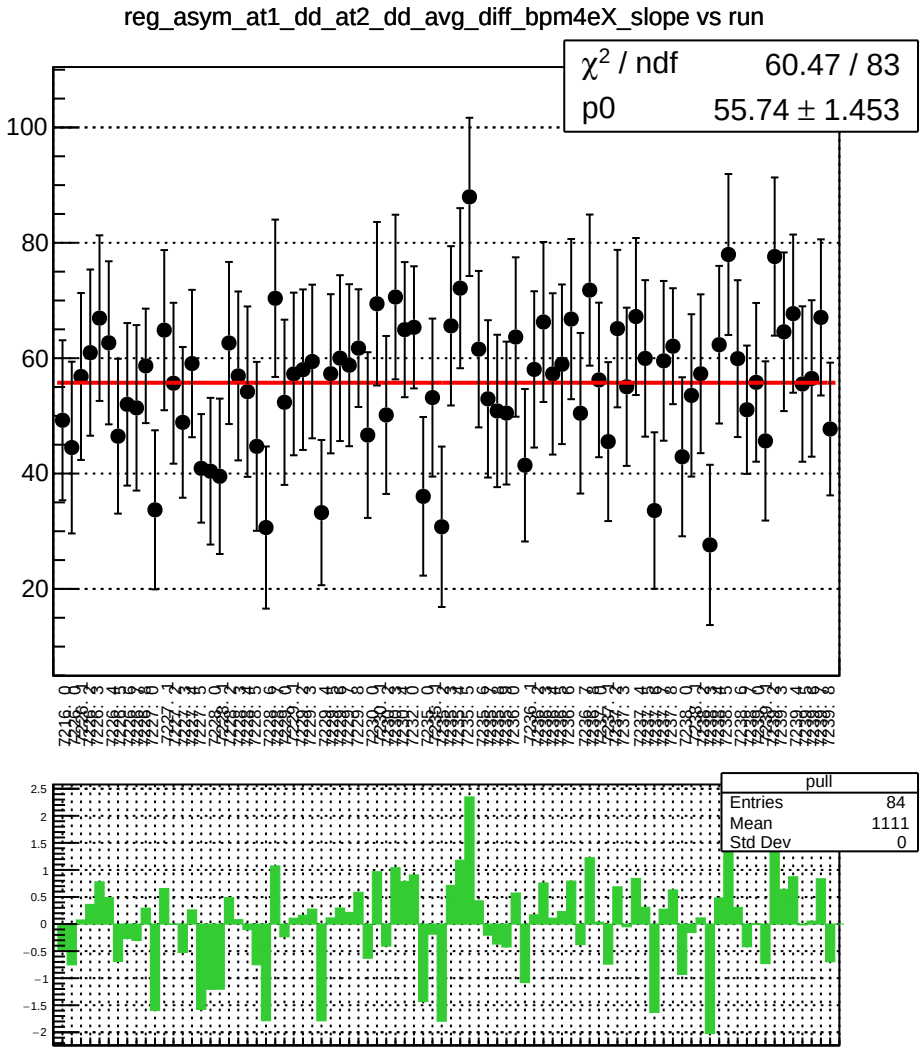

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 73.88 / 83
p0 −1.967 ± 1.107
pull
Entries 84
Mean −118.3
Std Dev 0
pull1D
Entries 84
Mean 0.002154
Std Dev 0.9378

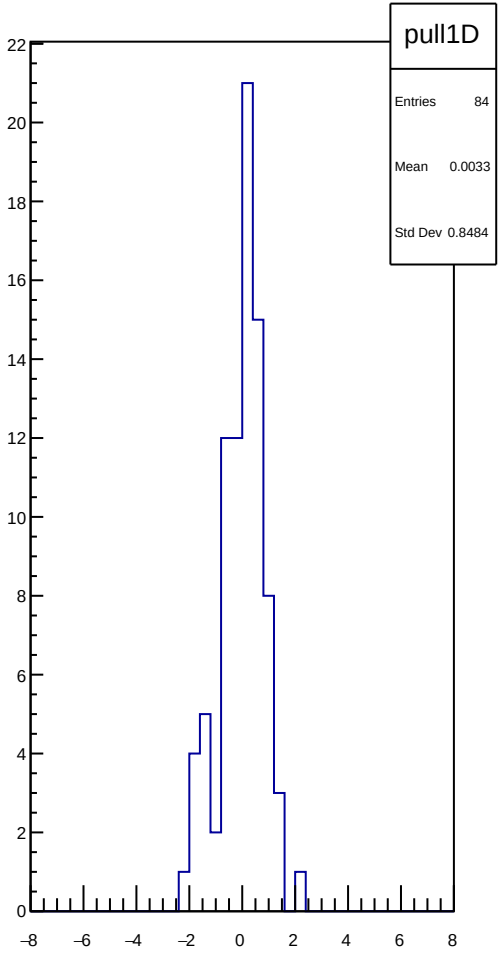

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 84.8 / 83
p0 3.269 ± 0.04632
pull
Entries 84
Mean −3878
Std Dev 0
pull1D
Entries 84
Mean 0.0009105
Std Dev 1.005

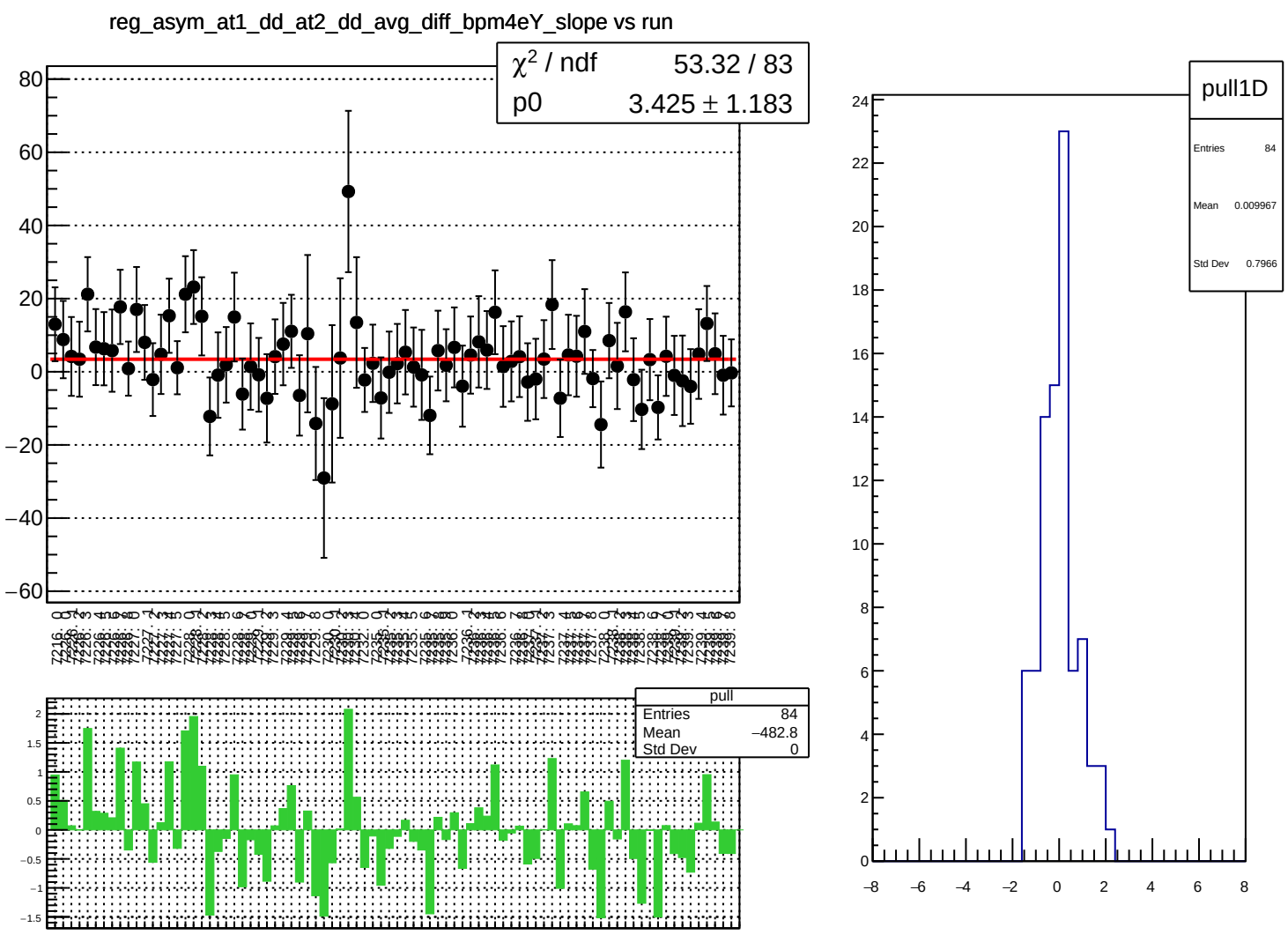

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 58.27 / 83
p0 7.222 ± 1.424
pull
Entries 84
Mean 1084
Std Dev 0

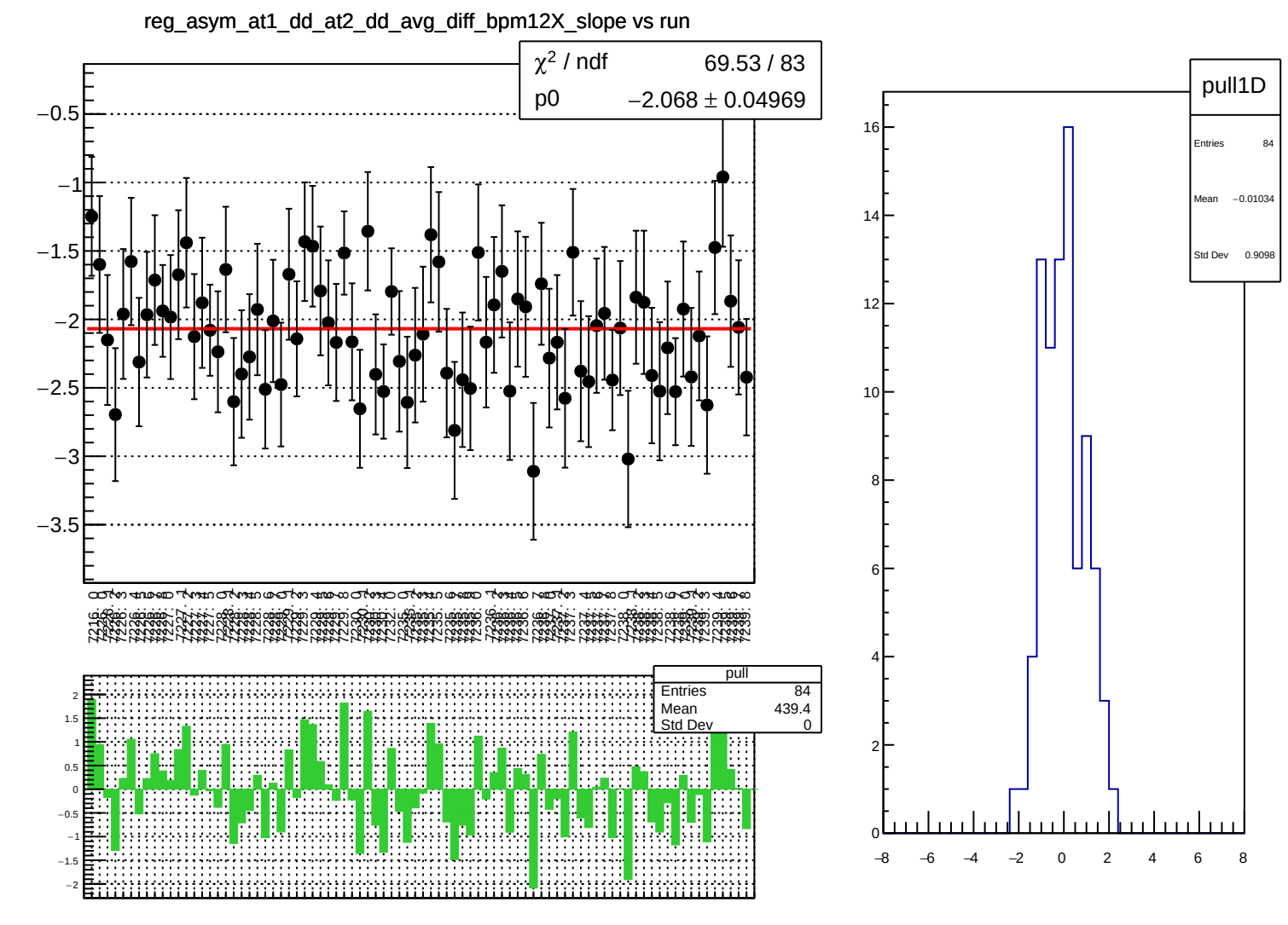

pull1D
Entries 84
Mean −0.003957
Std Dev 0.8329

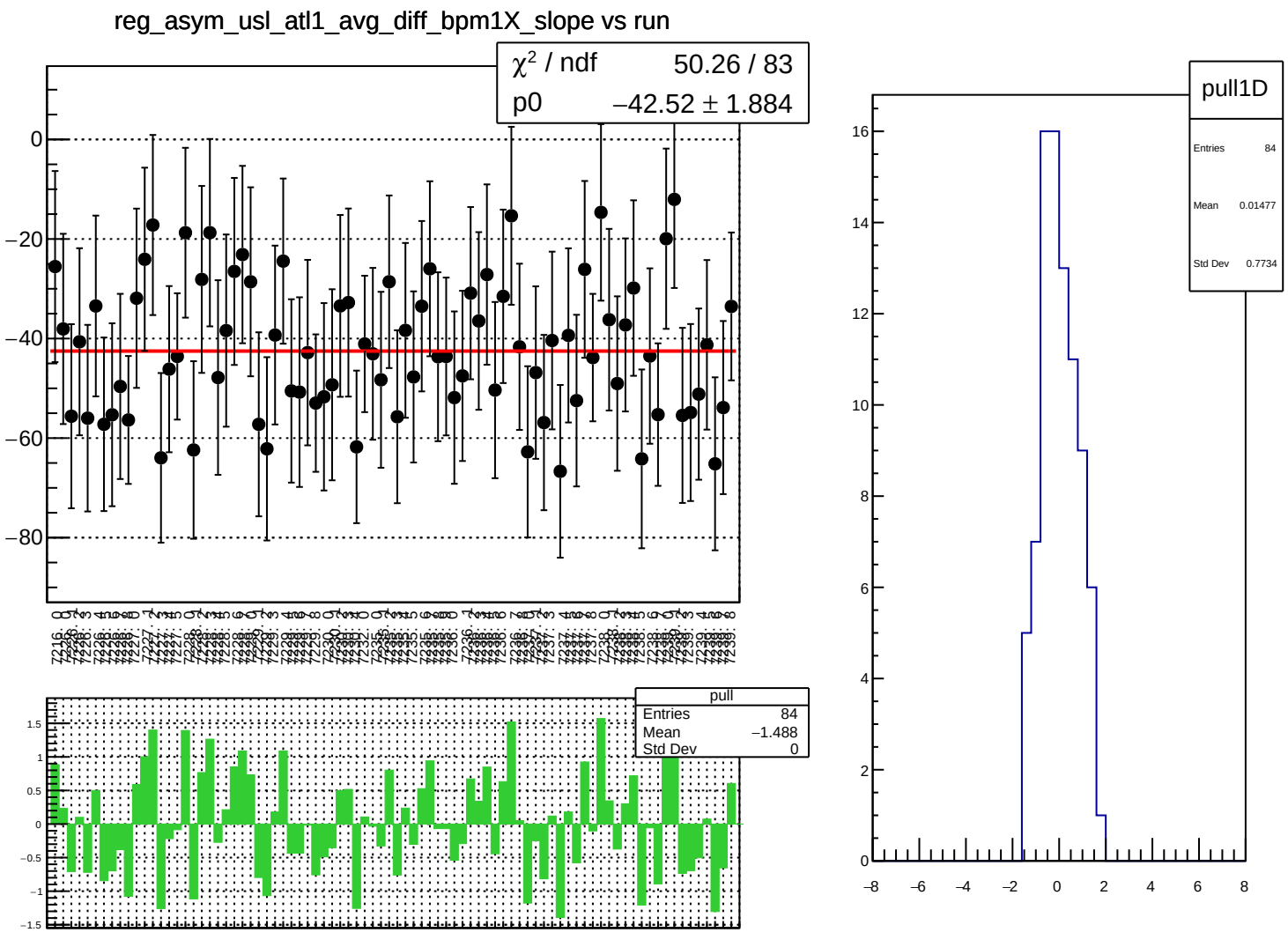

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 53.48 / 83
p0 −2.15 ± 1.08
pull
Entries 84
Mean −774.3
Std Dev 0
pull1D
Entries 84
Mean −0.006072
Std Dev 0.7979

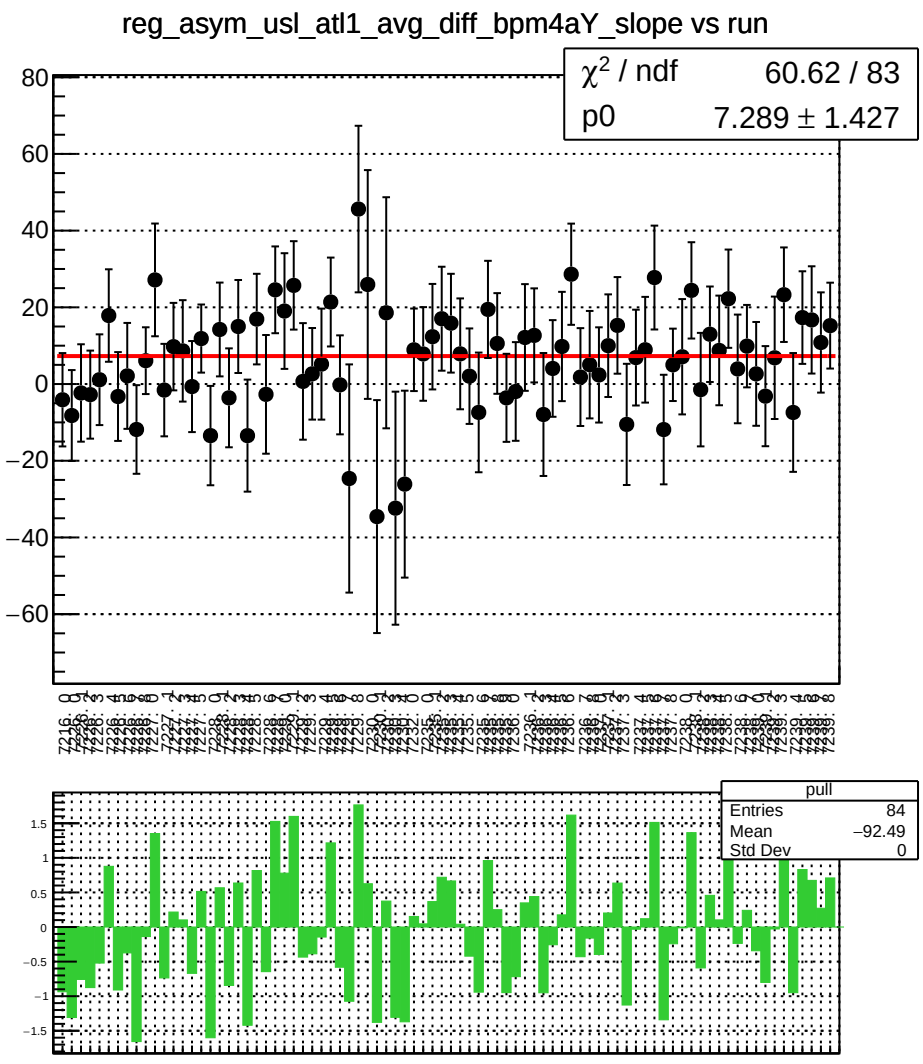

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 60.47 / 83
p0 55.74 ± 1.453
pull
Entries 84
Mean 1111
Std Dev 0

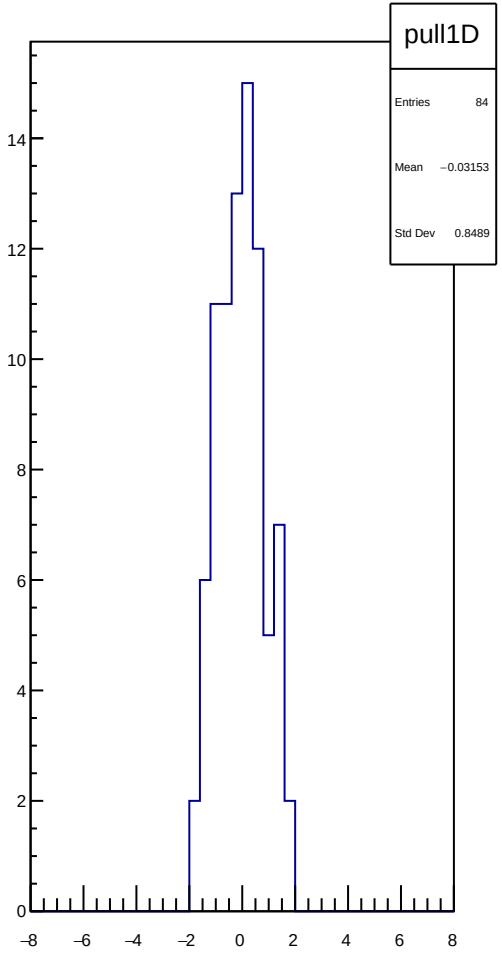

pull1D
Entries 84
Mean 0.0033
Std Dev 0.8484

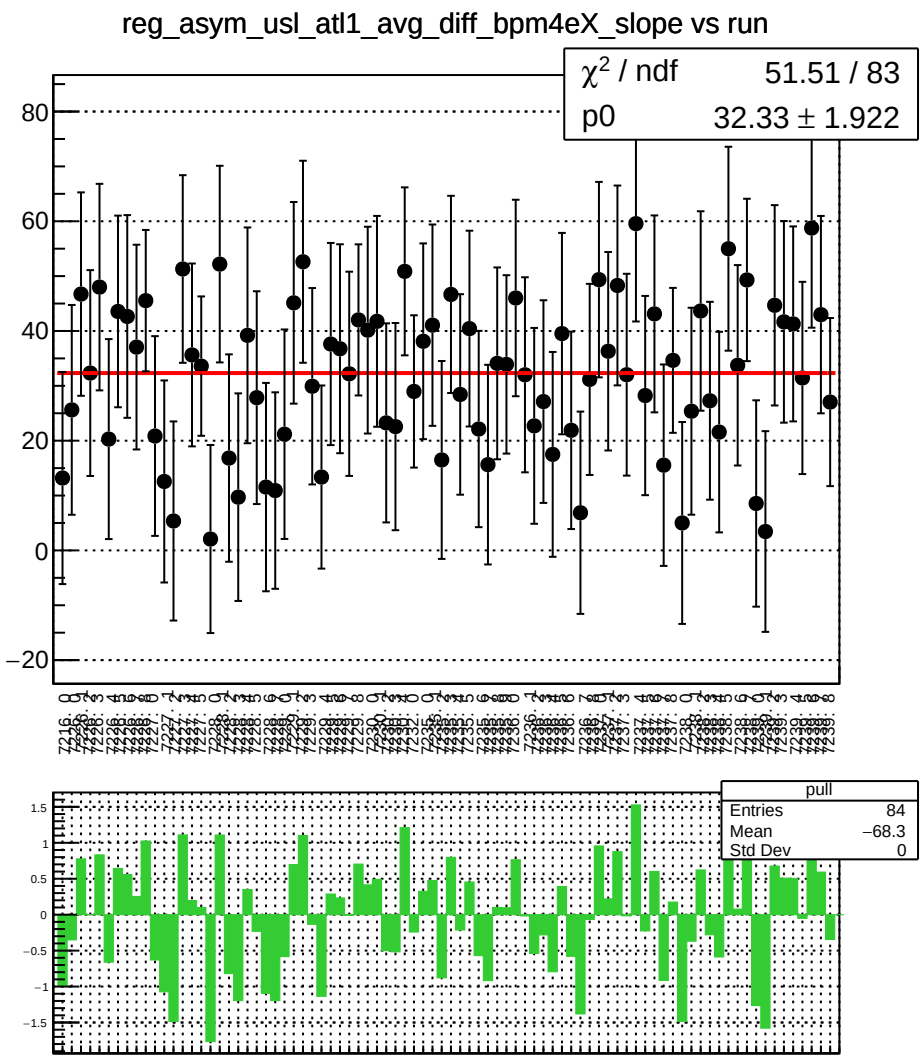

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 53.32 / 83
p0 3.425 ± 1.183
pull
Entries 84
Mean −482.8
Std Dev 0
pull1D
Entries 84
Mean 0.009967
Std Dev 0.7966

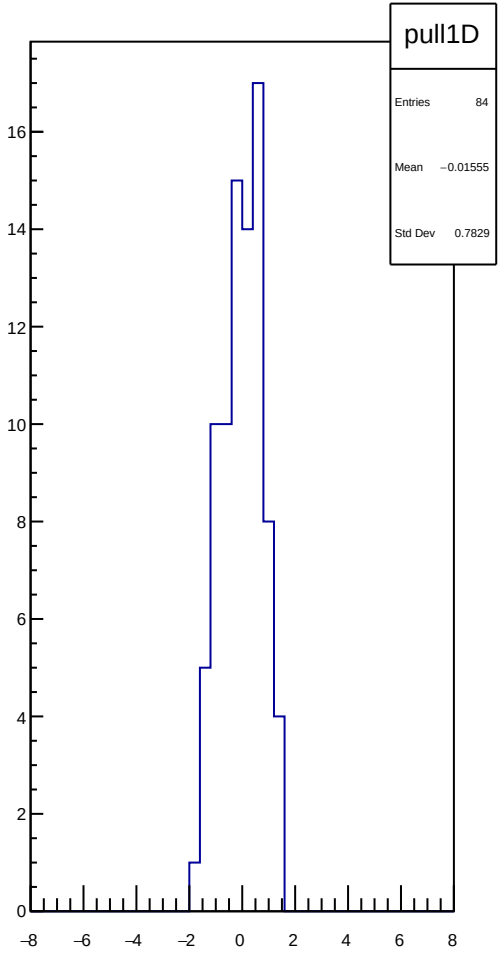

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 69.53 / 83
p0 −2.068 ± 0.04969
pull
Entries 84
Mean 439.4
Std Dev 0
pull1D
Entries 84
Mean −0.01034
Std Dev 0.9098

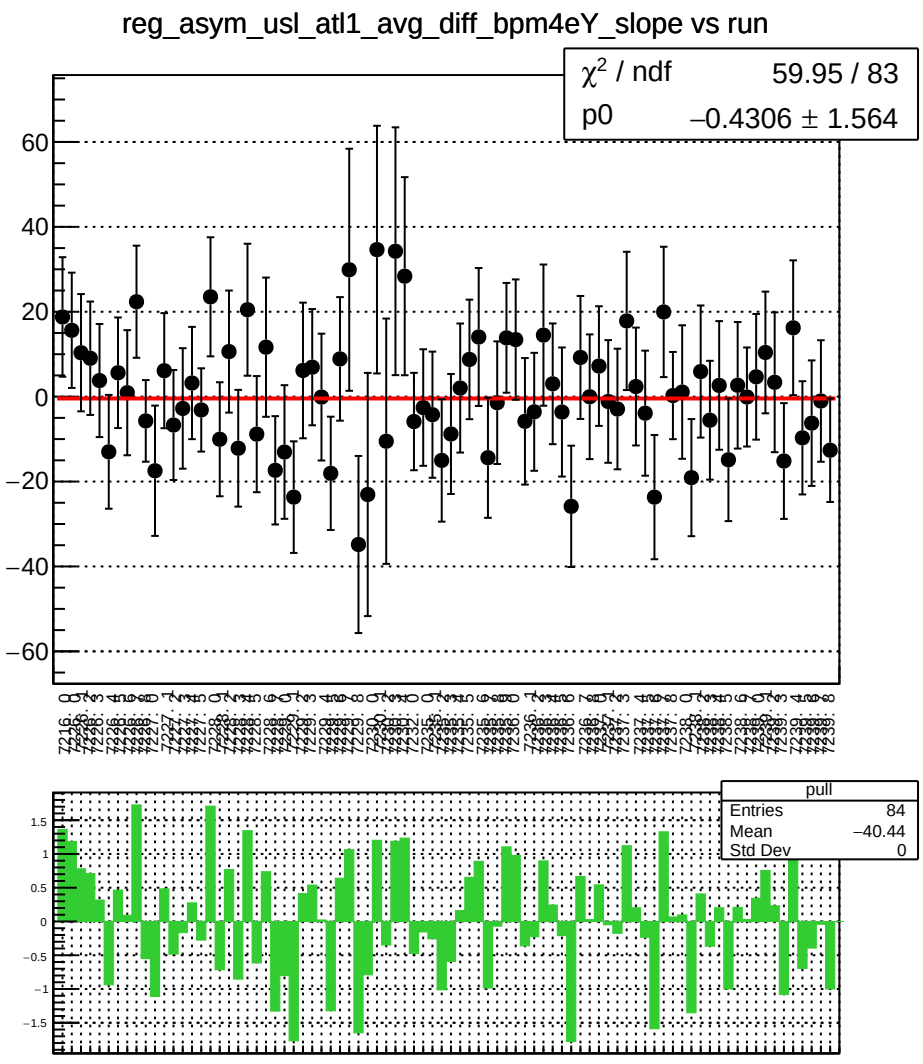

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 50.26 / 83
p0 −42.52 ± 1.884
pull
Entries 84
Mean −1.488
Std Dev 0
pull1D
Entries 84
Mean 0.01477
Std Dev 0.7734

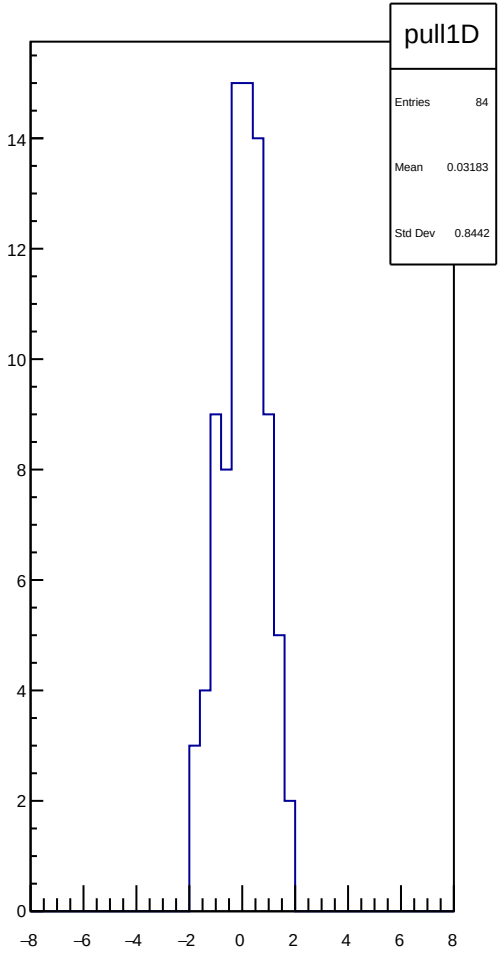

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 60.62 / 83
p0 7.289 ± 1.427
pull
Entries 84
Mean −92.49
Std Dev 0

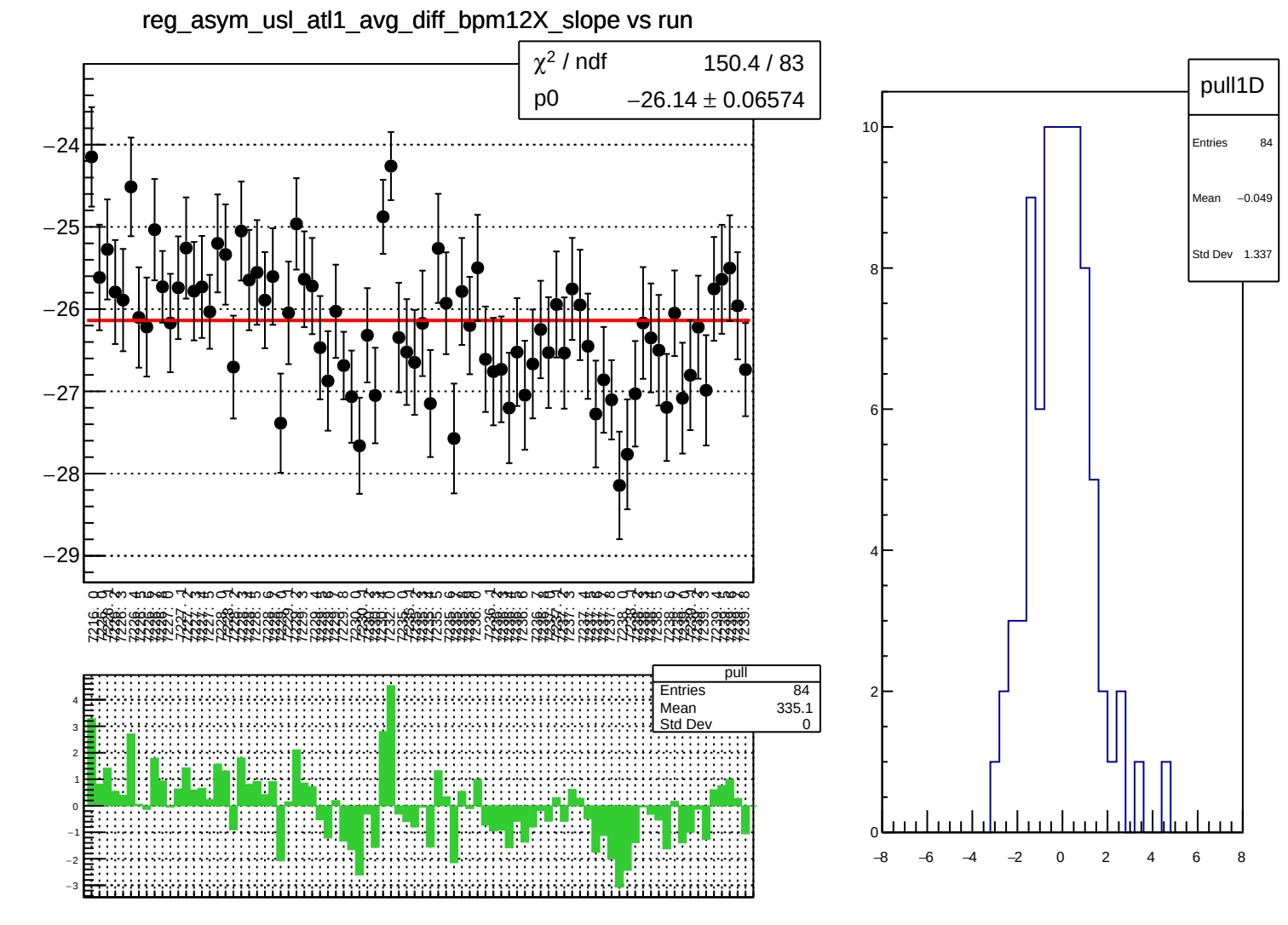

pull1D
Entries 84
Mean −0.03153
Std Dev 0.8489

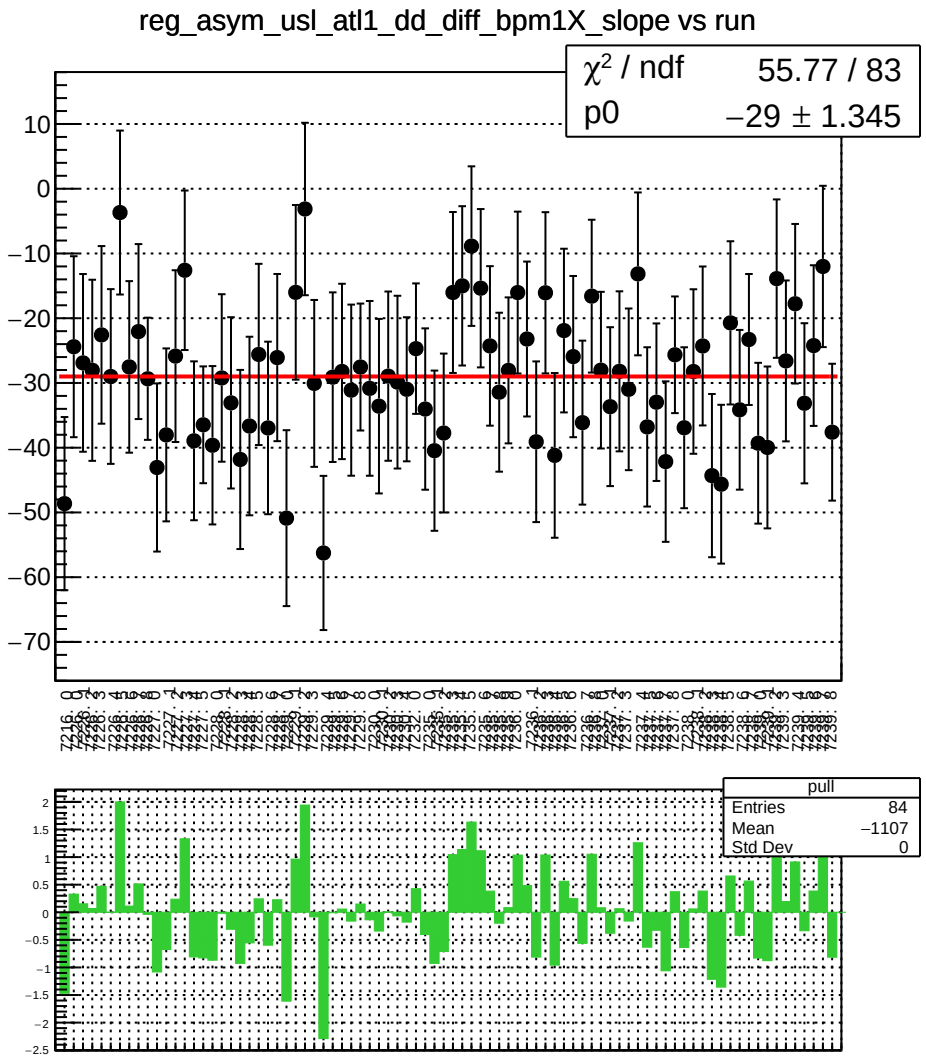

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 51.51 / 83
p0 32.33 ± 1.922
pull
Entries 84
Mean −68.3
Std Dev 0

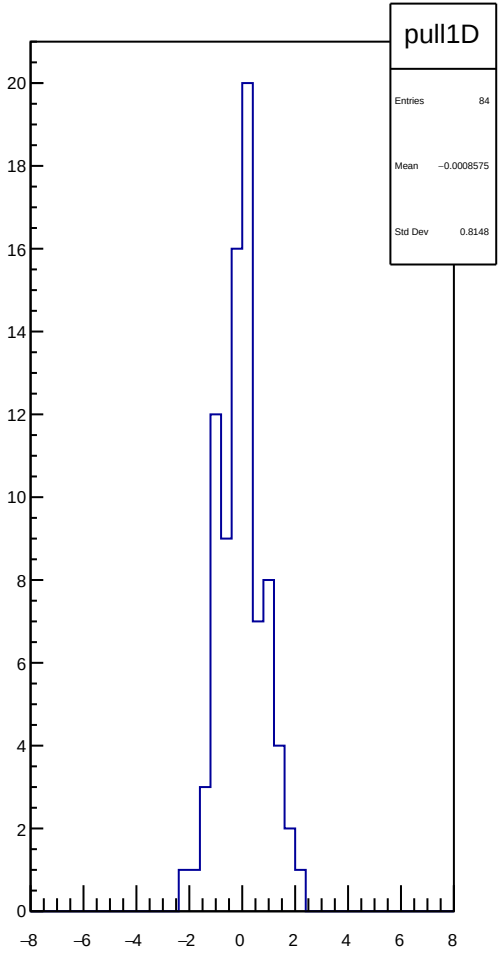

pull1D
Entries 84
Mean −0.01555
Std Dev 0.7829

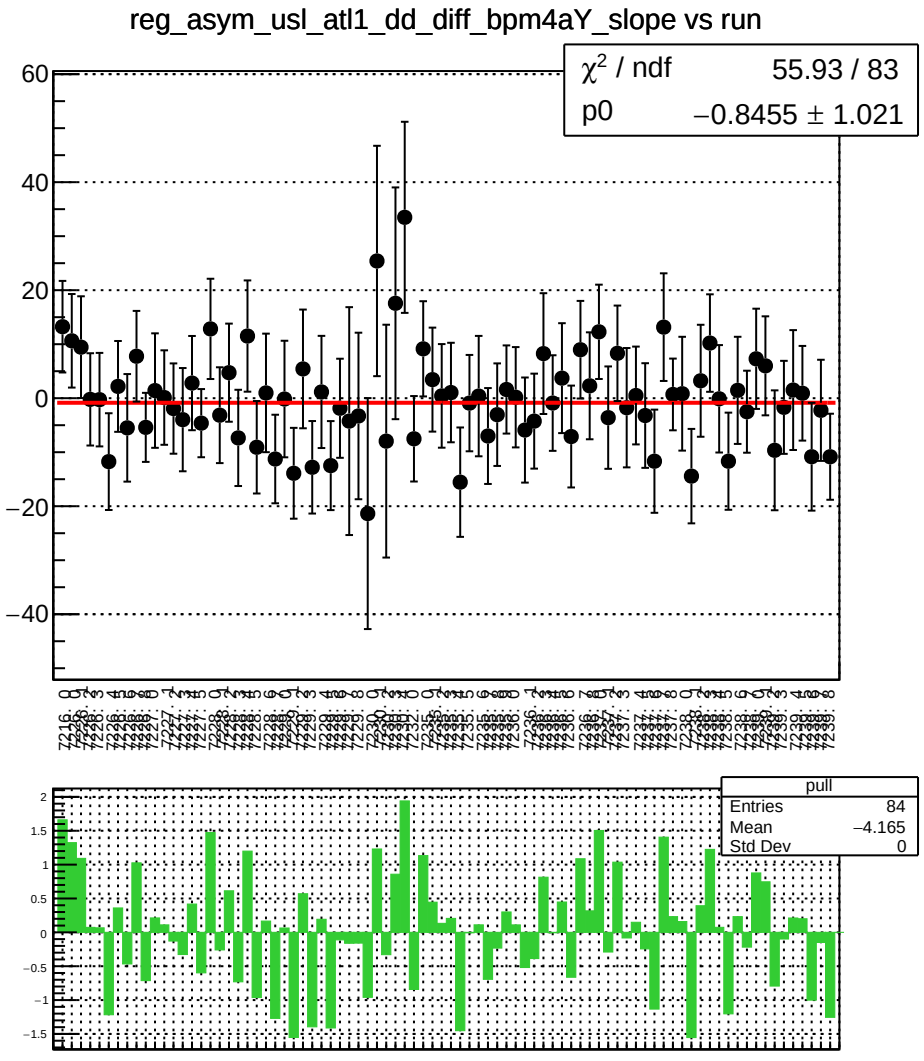

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 59.95 / 83
p0 −0.4306 ± 1.564
pull
Entries 84
Mean −40.44
Std Dev 0

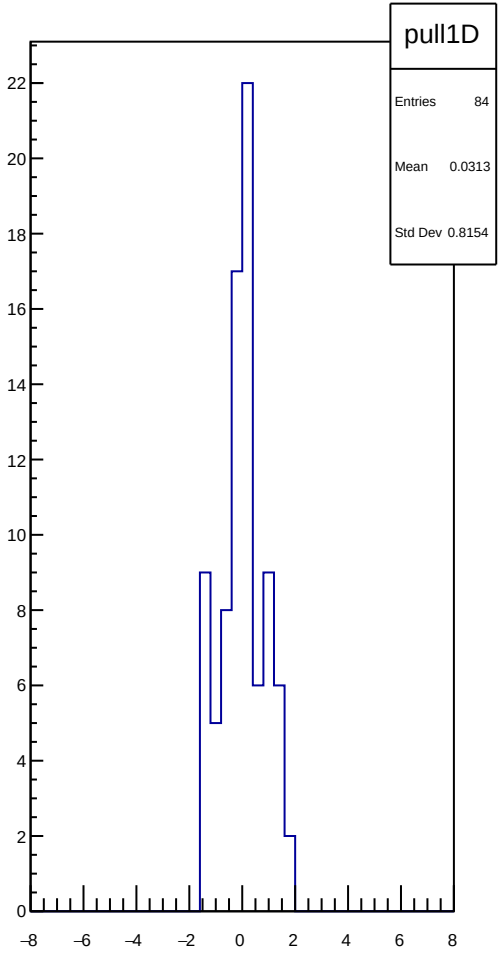

pull1D
Entries 84
Mean 0.03183
Std Dev 0.8442

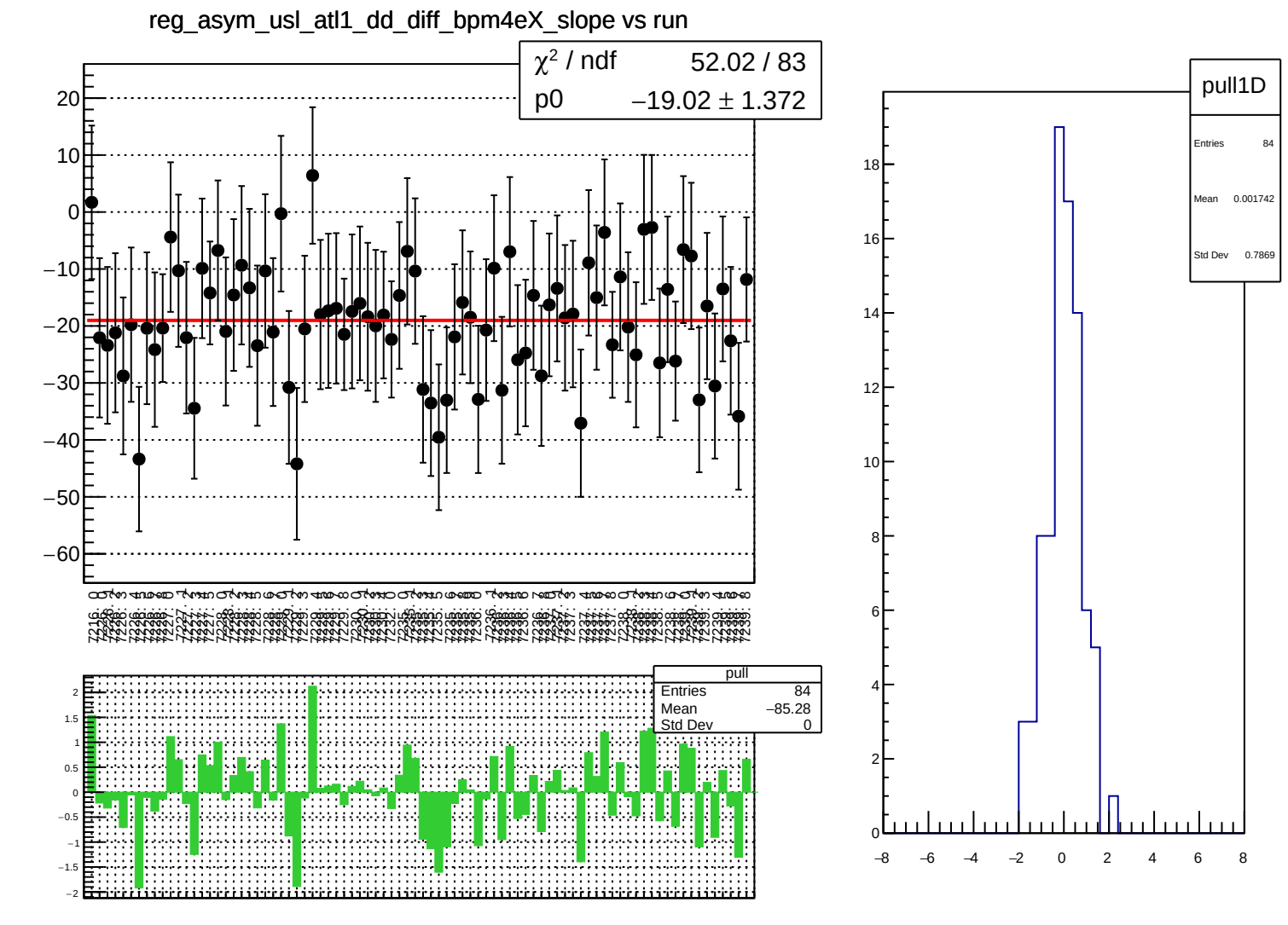

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 150.4 / 83
p0 −26.14 ± 0.06574
pull
Entries 84
Mean 335.1
Std Dev 0
pull1D
Entries 84
Mean −0.049
Std Dev 1.337

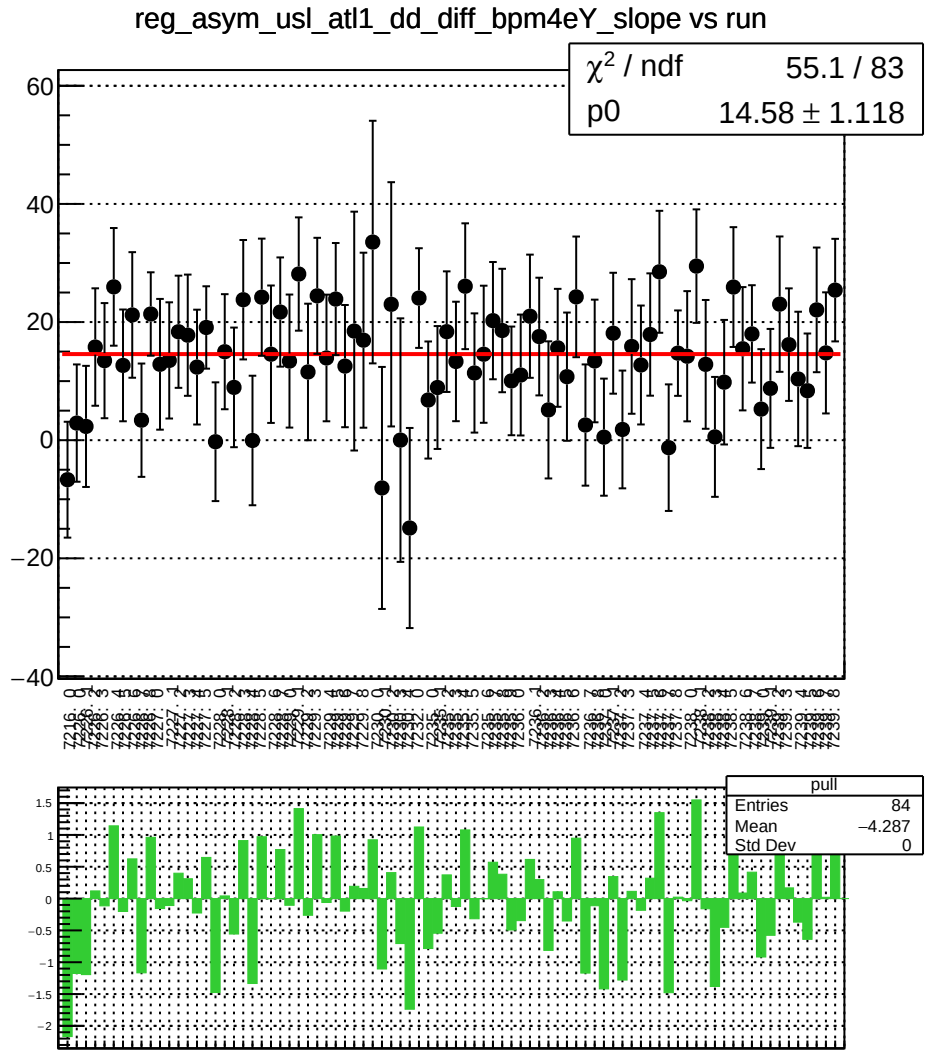

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 55.77 / 83
p0 −29 ± 1.345
pull
Entries 84
Mean −1107
Std Dev 0

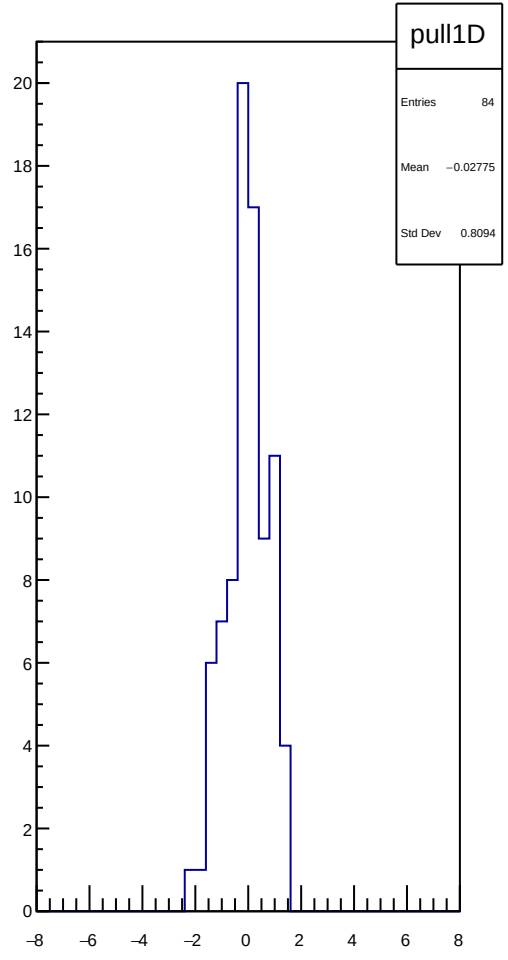

pull1D
Entries 84
Mean −0.0008575
Std Dev 0.8148

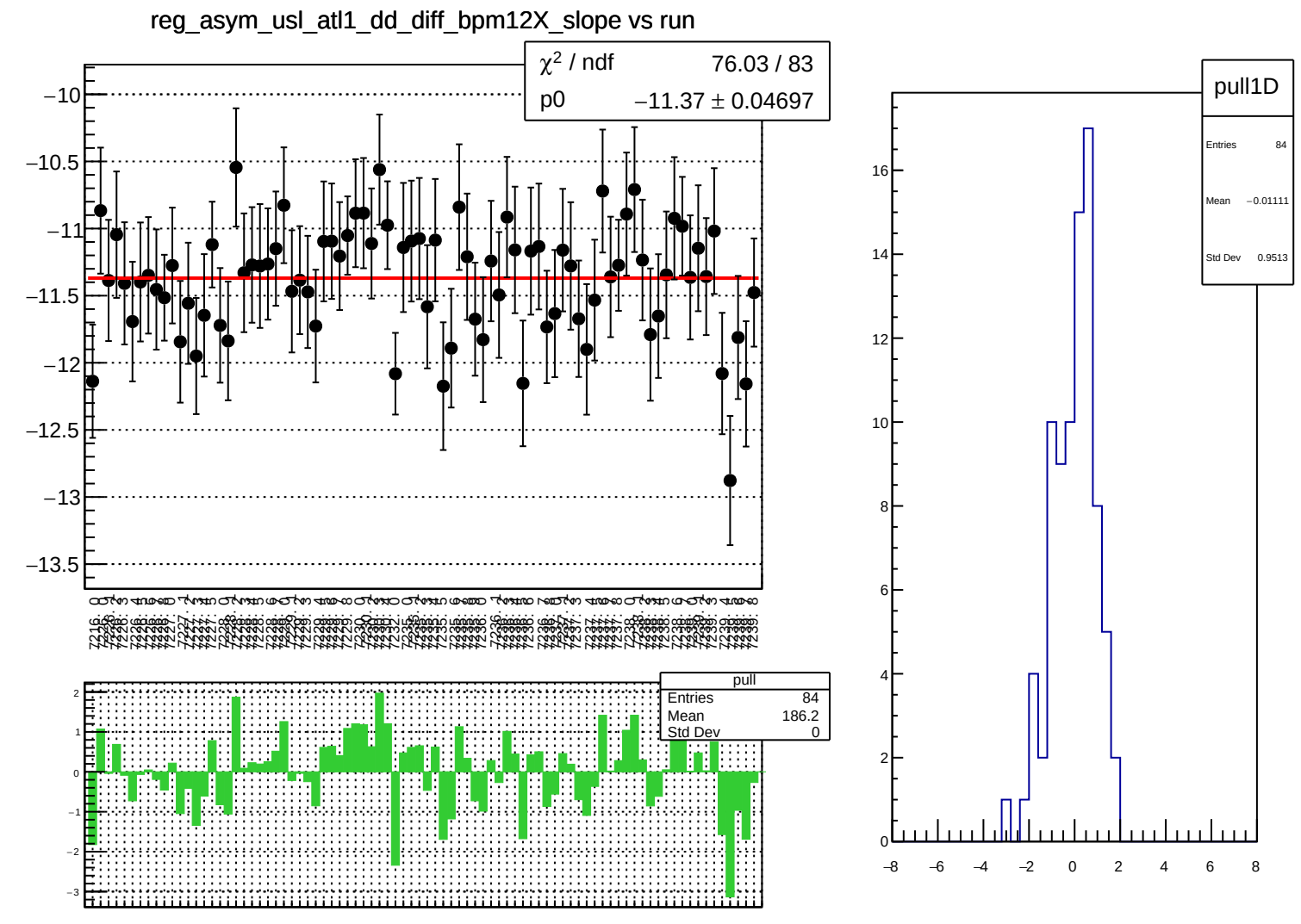

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 55.93 / 83
p0 −0.8455 ± 1.021
pull
Entries 84
Mean −4.165
Std Dev 0

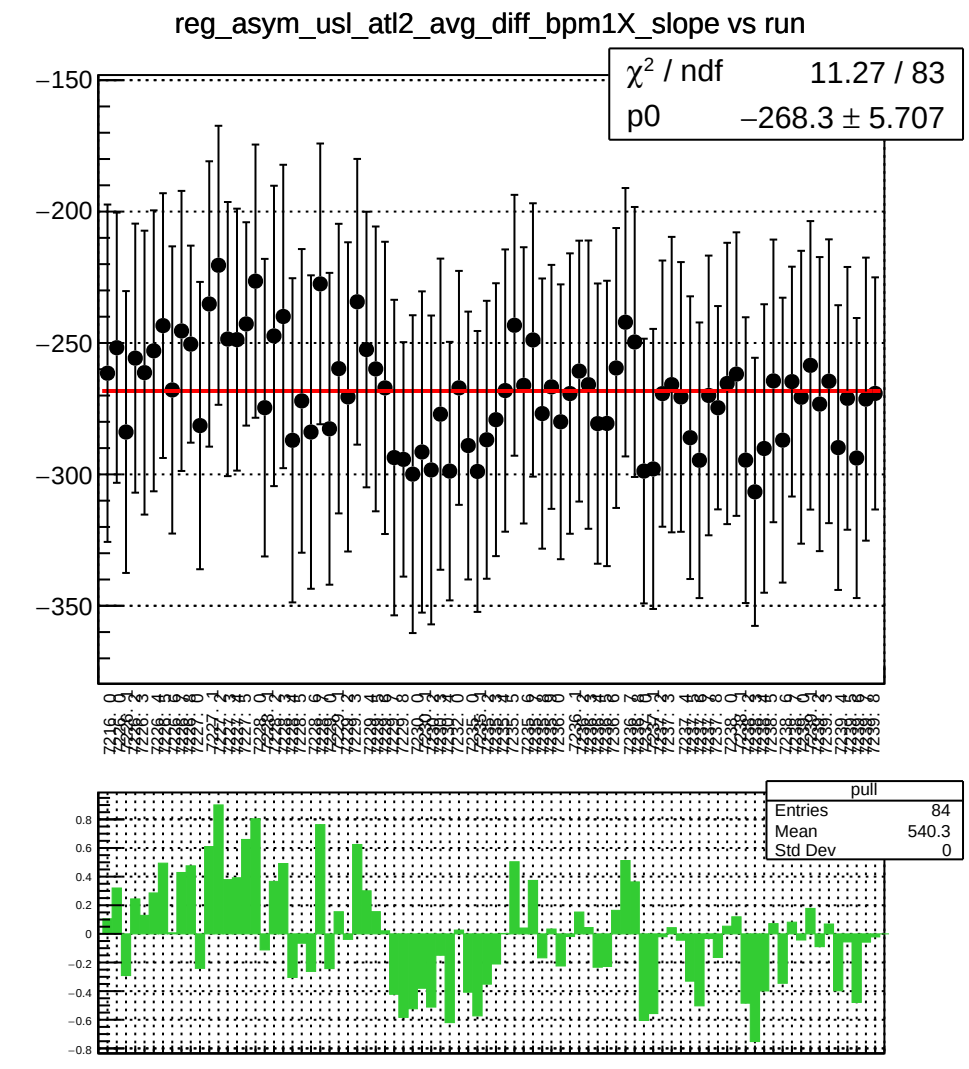

pull1D
Entries 84
Mean 0.0313
Std Dev 0.8154

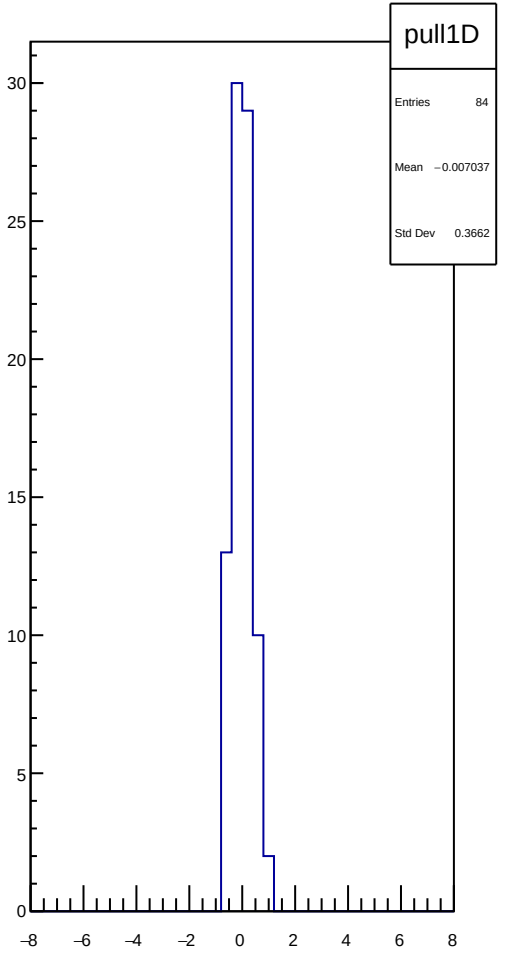

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 52.02 / 83
p0 −19.02 ± 1.372
pull
Entries 84
Mean −85.28
Std Dev 0
pull1D
Entries 84
Mean 0.001742
Std Dev 0.7869

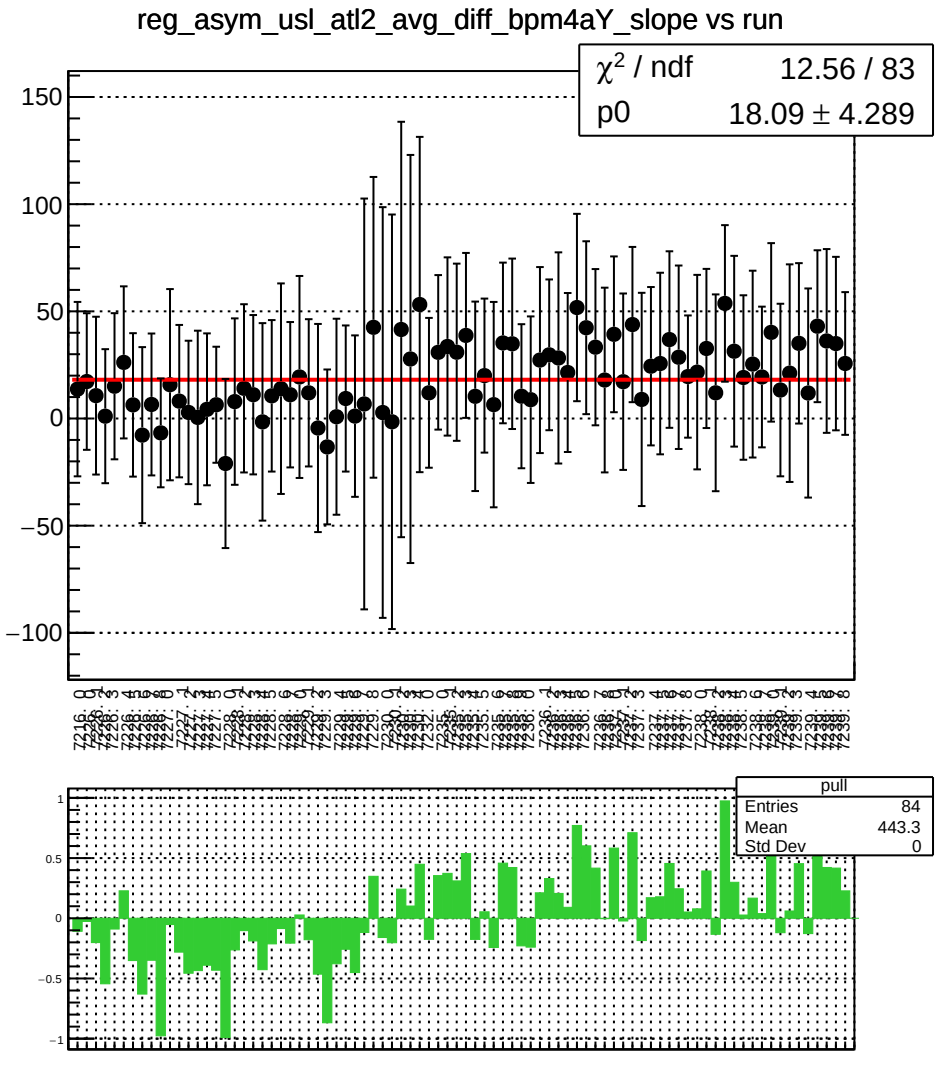

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 55.1 / 83
p0 14.58 ± 1.118
pull
Entries 84
Mean −4.287
Std Dev 0

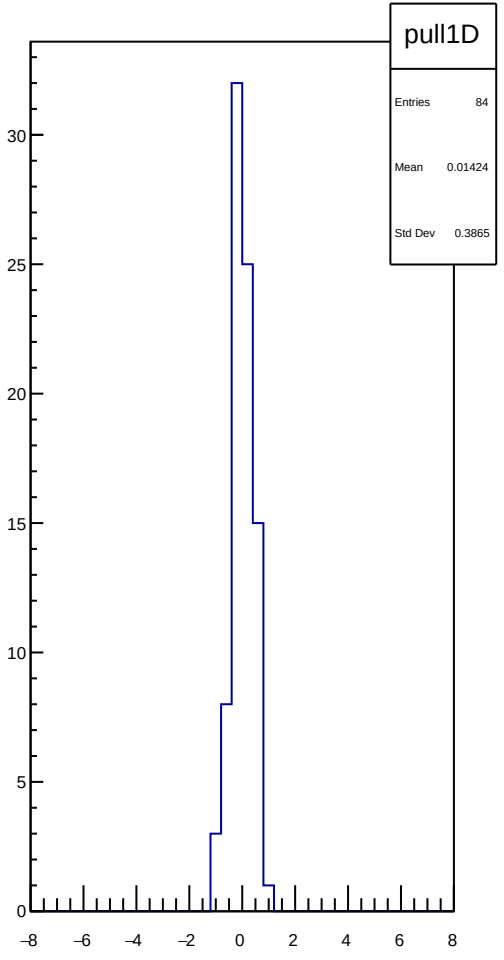

pull1D
Entries 84
Mean −0.02775
Std Dev 0.8094

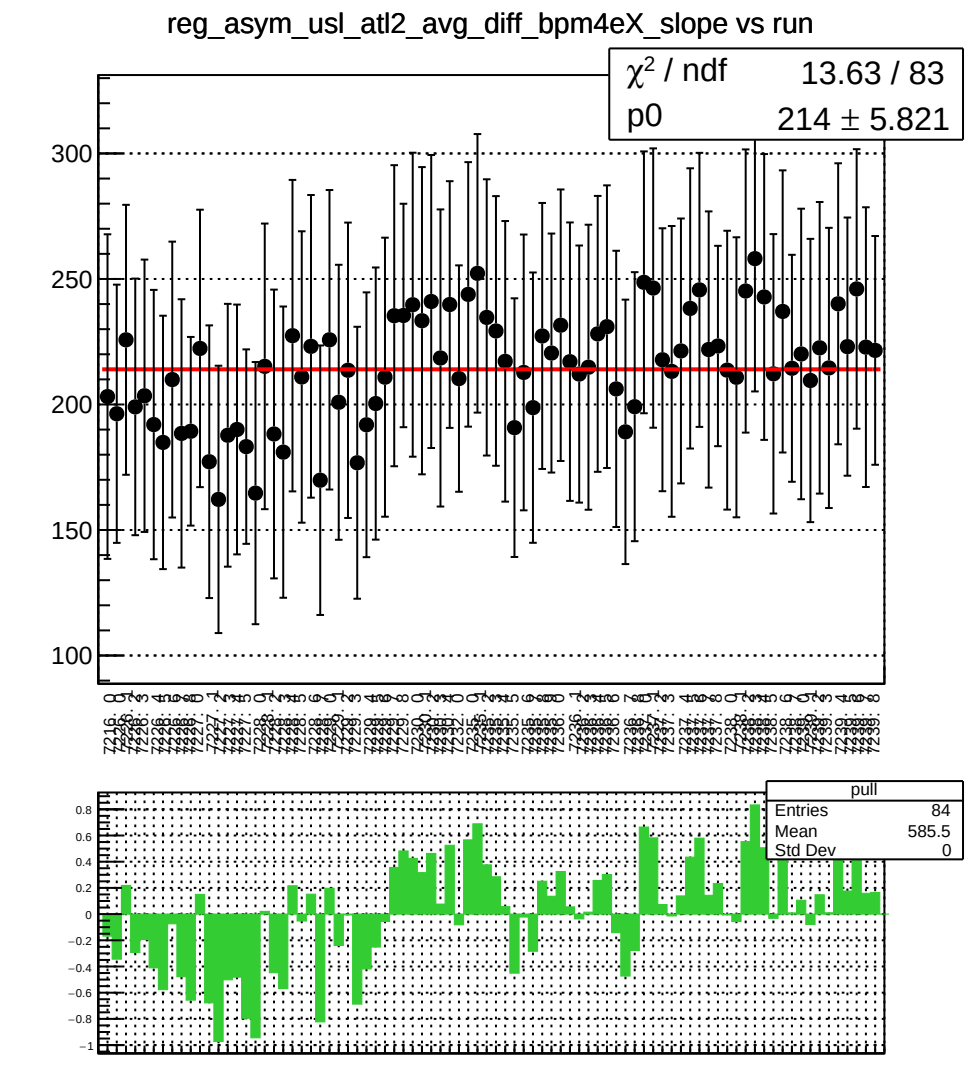

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 76.03 / 83
p0 −11.37 ± 0.04697
pull
Entries 84
Mean 186.2
Std Dev 0
pull1D
Entries 84
Mean −0.01111
Std Dev 0.9513

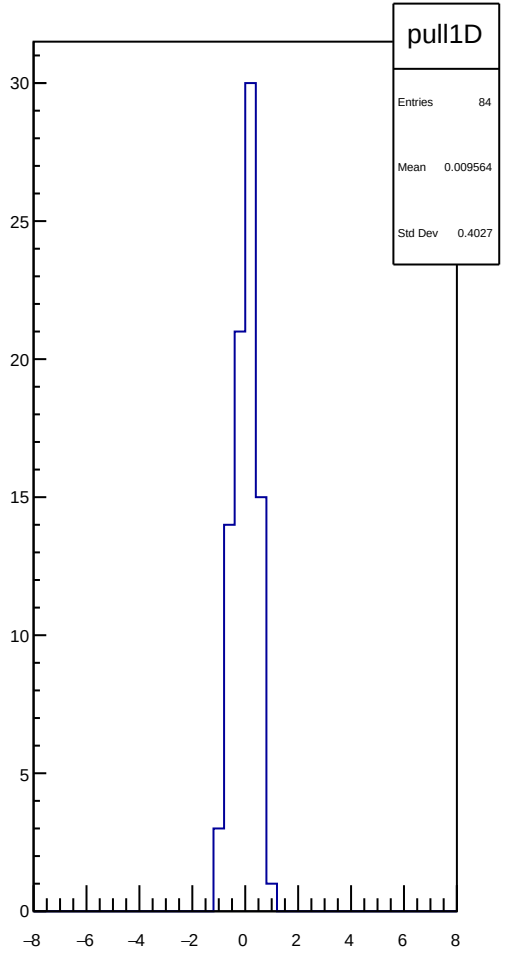

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 11.27 / 83
p0 −268.3 ± 5.707
−150
−200
−250
−300
−350
pull
Entries 84
Mean 540.3
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

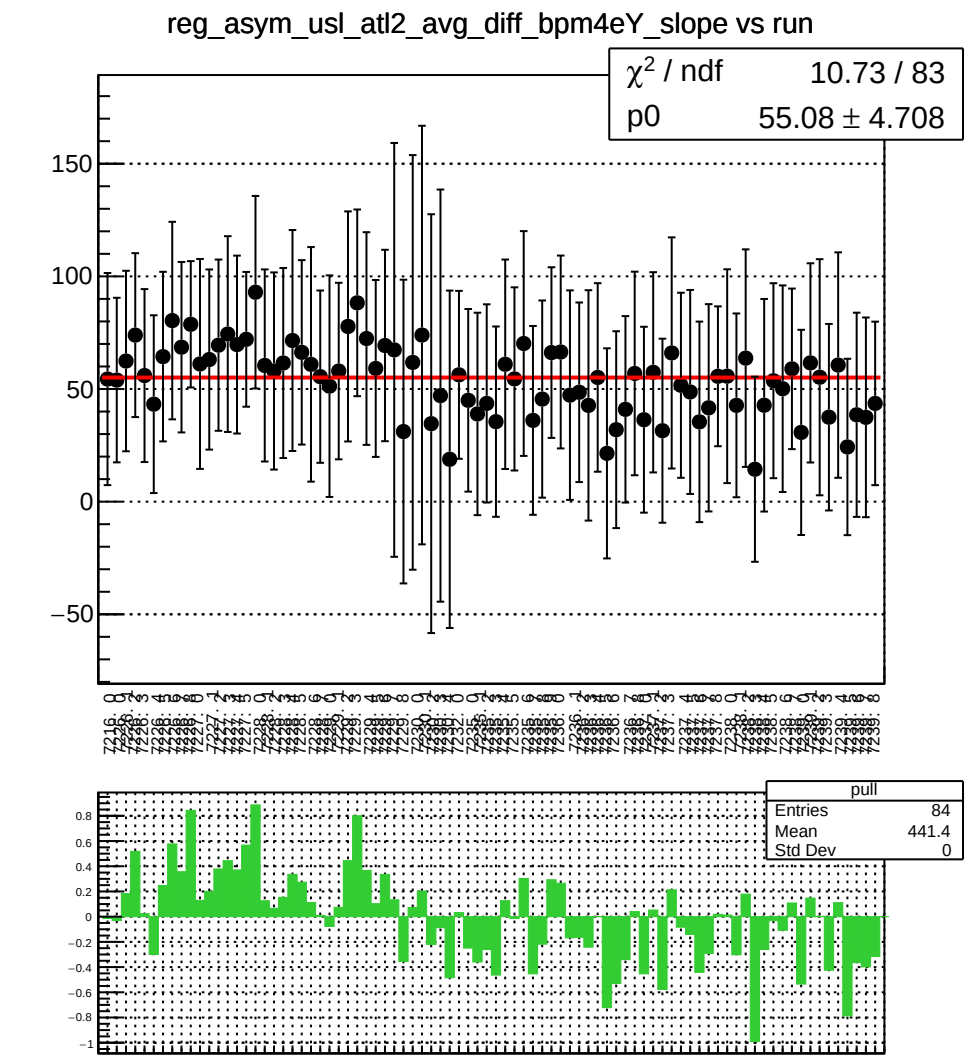

pull1D
Entries 84
Mean −0.007037
Std Dev 0.3662
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

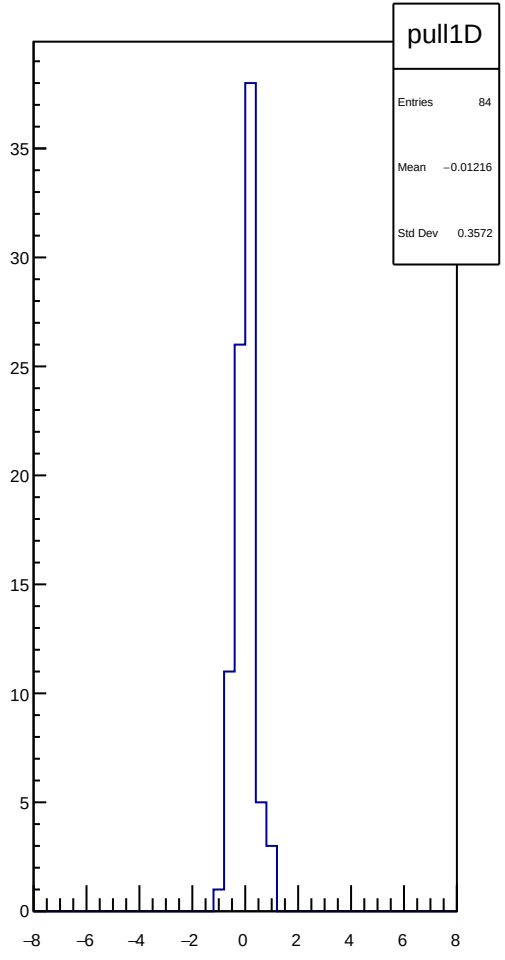

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.56 / 83
p0 18.09 ± 4.289
150
100
50
0
−50
−100
pull
Entries 84
Mean 443.3
Std Dev 0
1
0.5
0
−0.5
−1

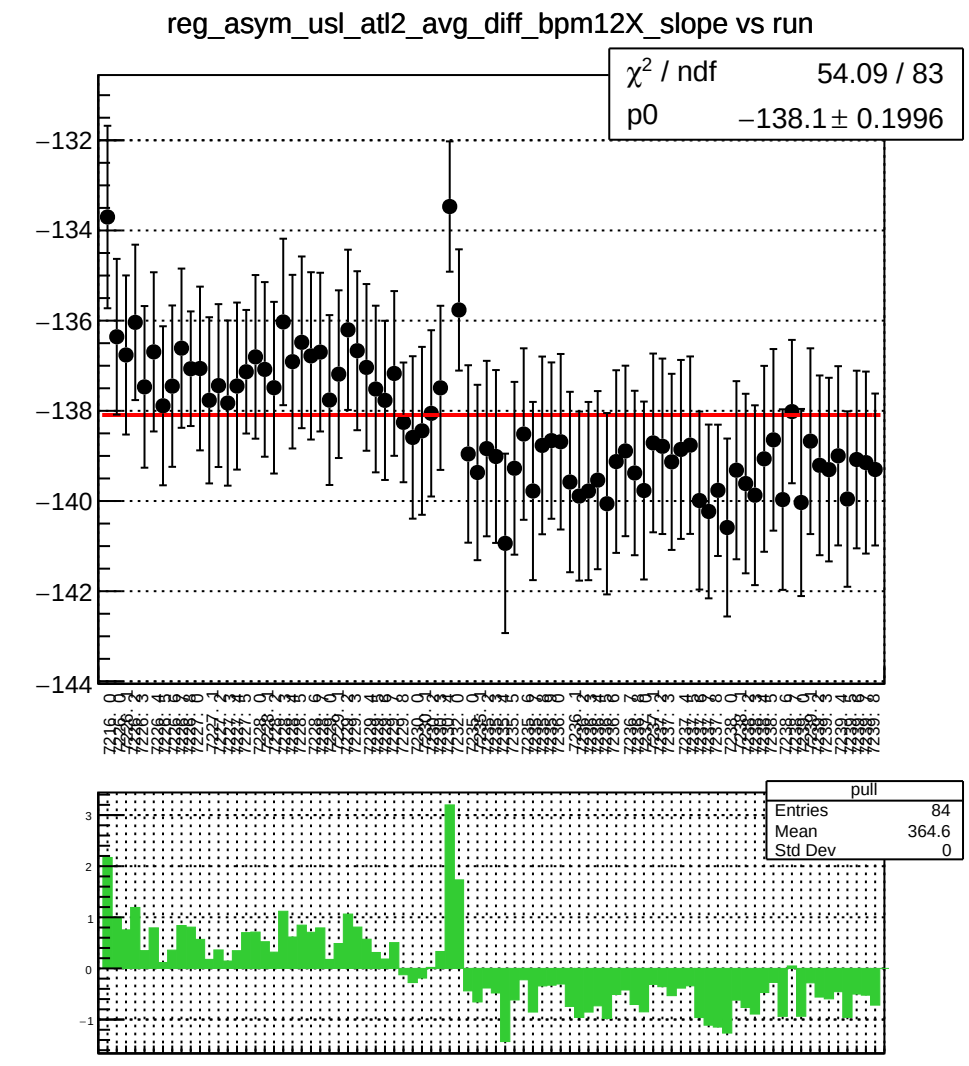

pull1D
Entries 84
Mean 0.01424
Std Dev 0.3865
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

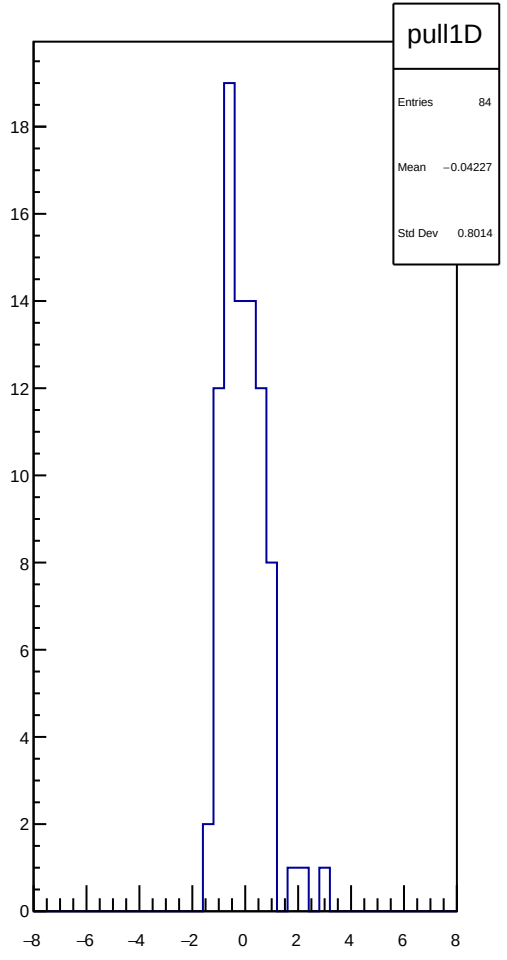

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 13.63 / 83
p0 214 ± 5.821
pull
Entries 84
Mean 585.5
Std Dev 0

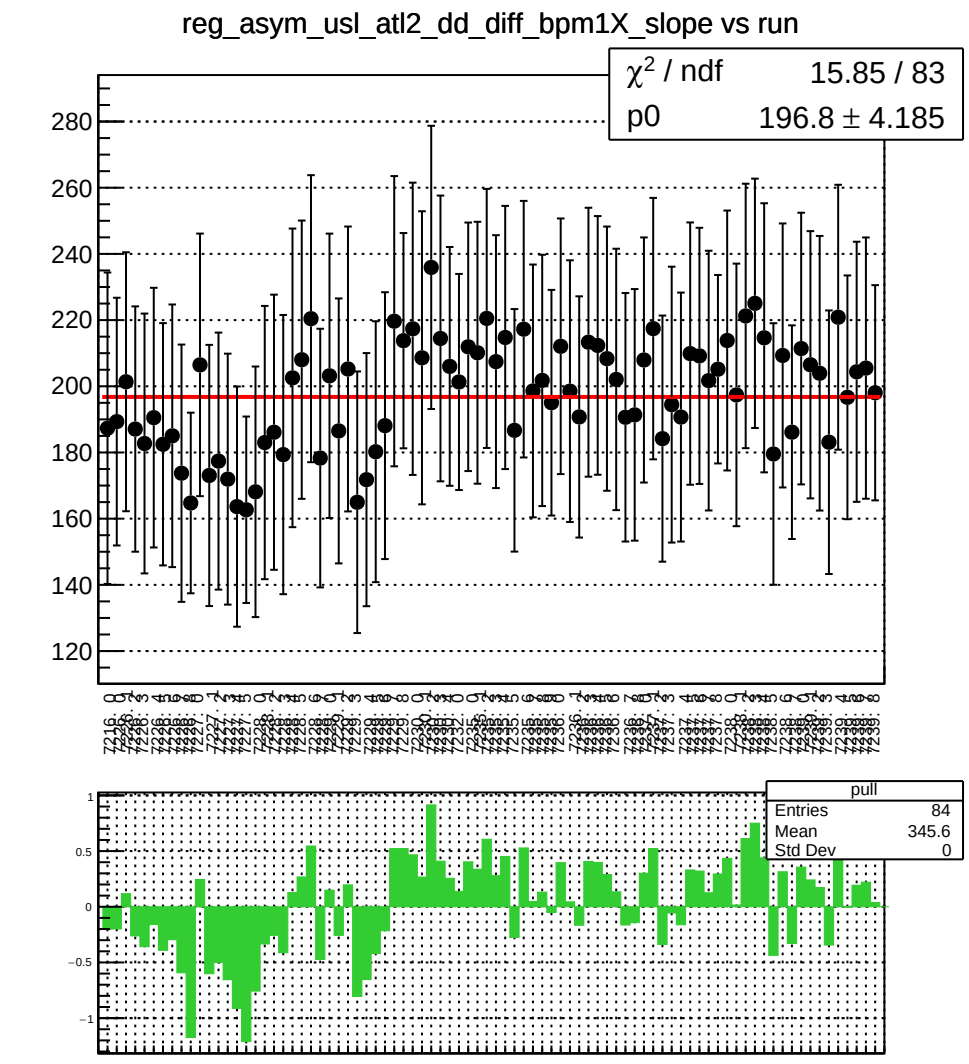

pull1D
Entries 84
Mean 0.009564
Std Dev 0.4027

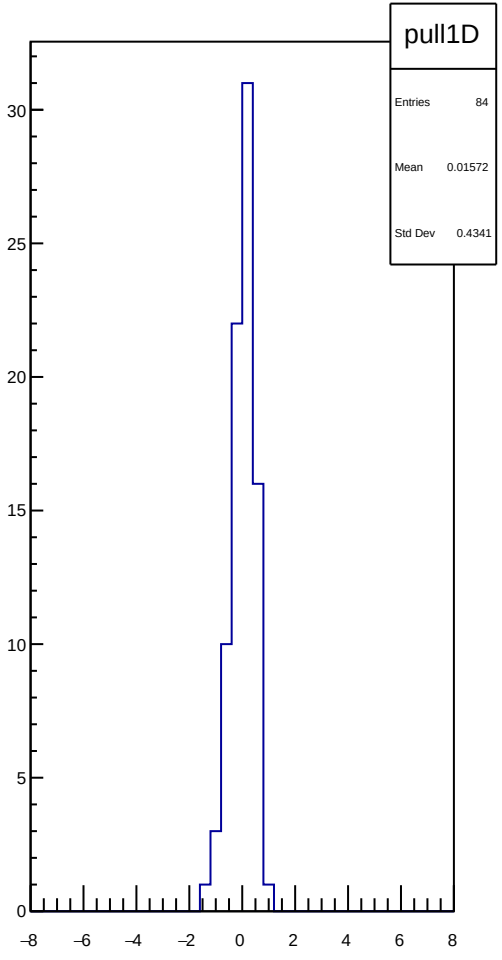

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.73 / 83
p0 55.08 ± 4.708
150
100
50
0
−50
pull
Entries 84
Mean 441.4
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

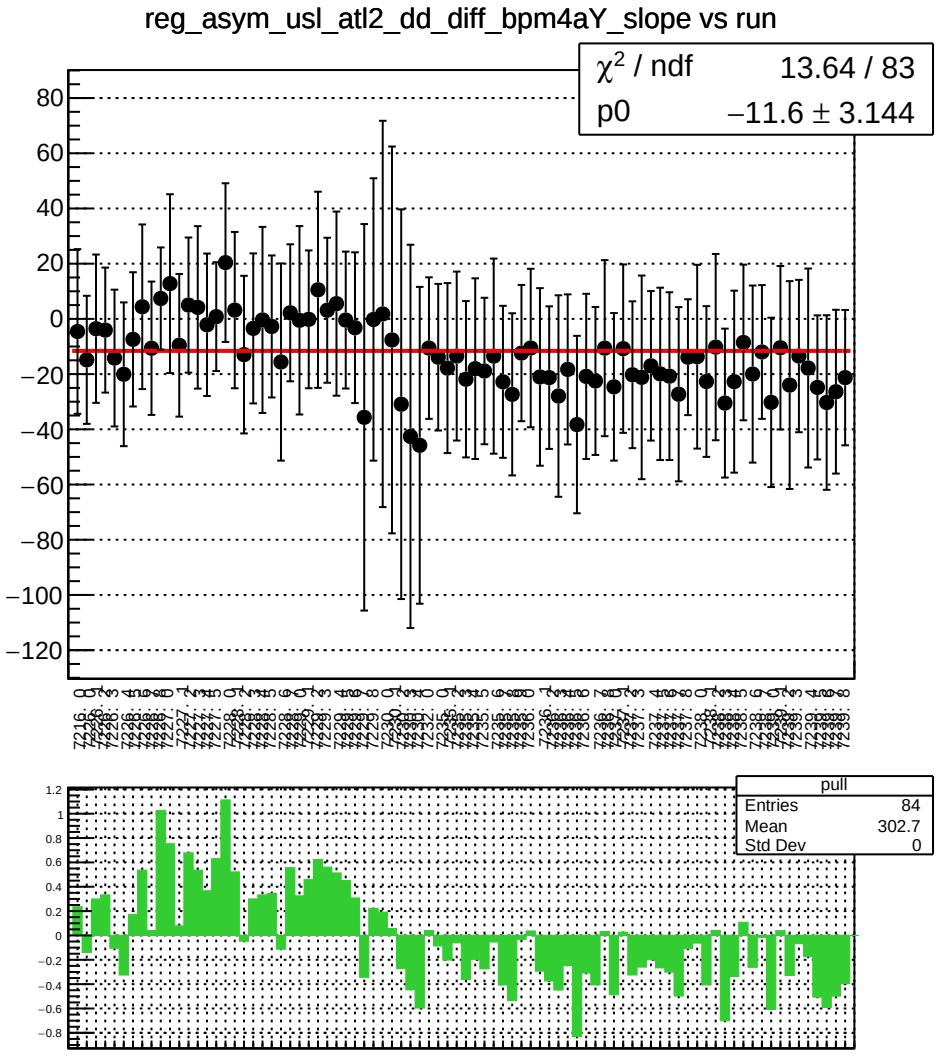

pull1D
Entries 84
Mean −0.01216
Std Dev 0.3572
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

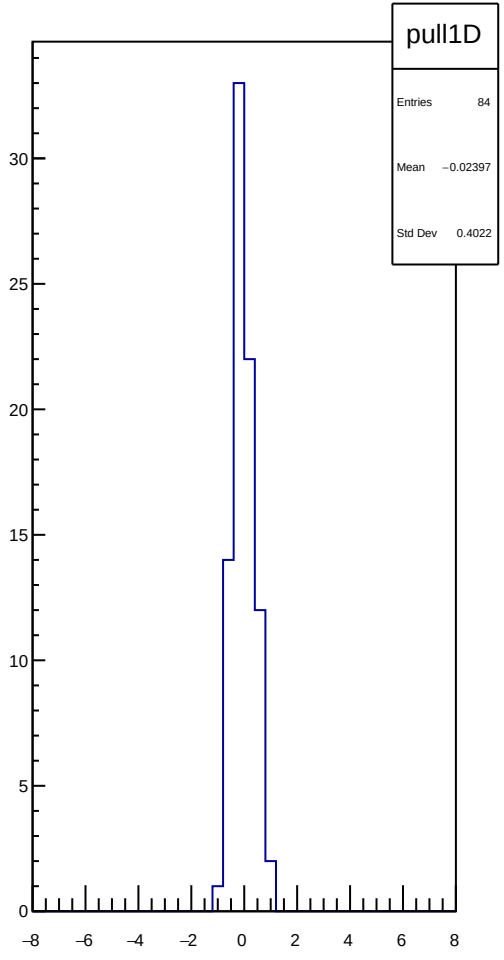

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 54.09 / 83
p0 −138.1 ± 0.1996
pull
Entries 84
Mean 364.6
Std Dev 0

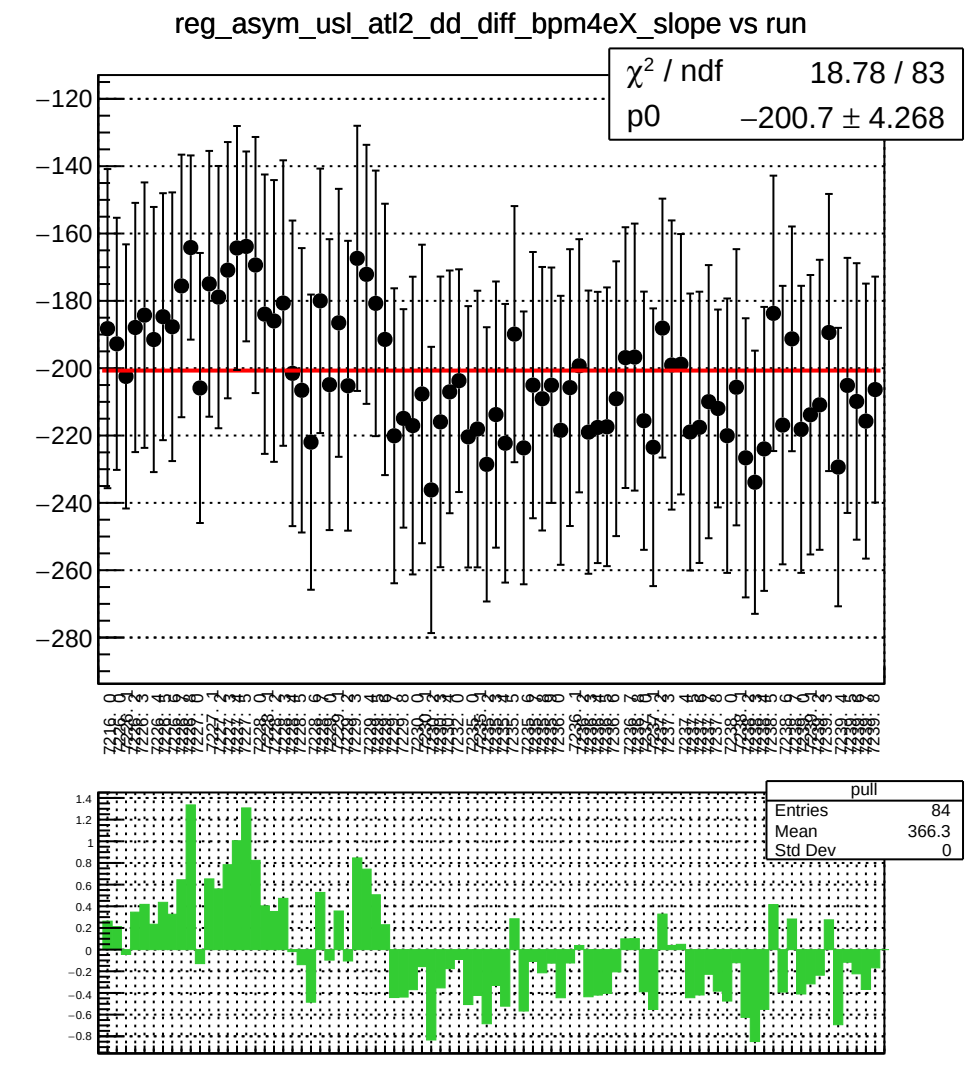

pull1D
Entries 84
Mean −0.04227
Std Dev 0.8014

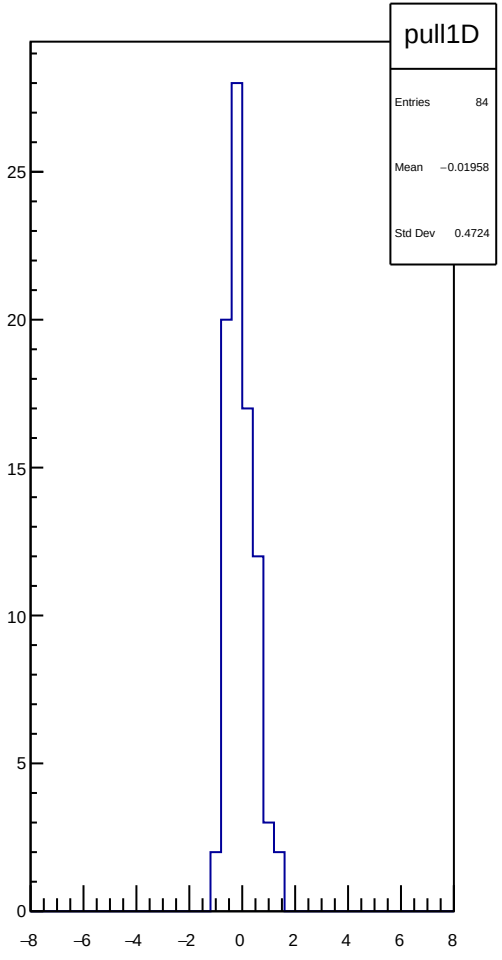

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 15.85 / 83
p0 196.8 ± 4.185
pull
Entries 84
Mean 345.6
Std Dev 0

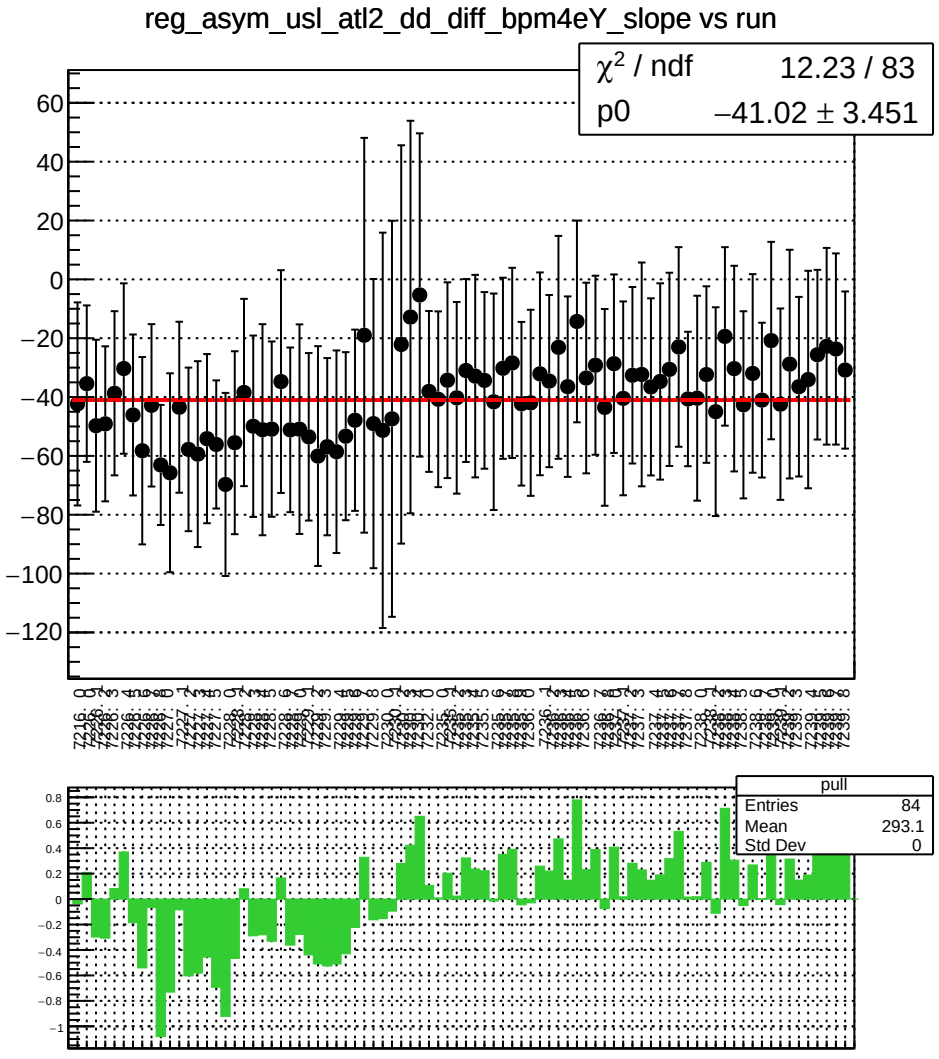

pull1D
Entries 84
Mean 0.01572
Std Dev 0.4341

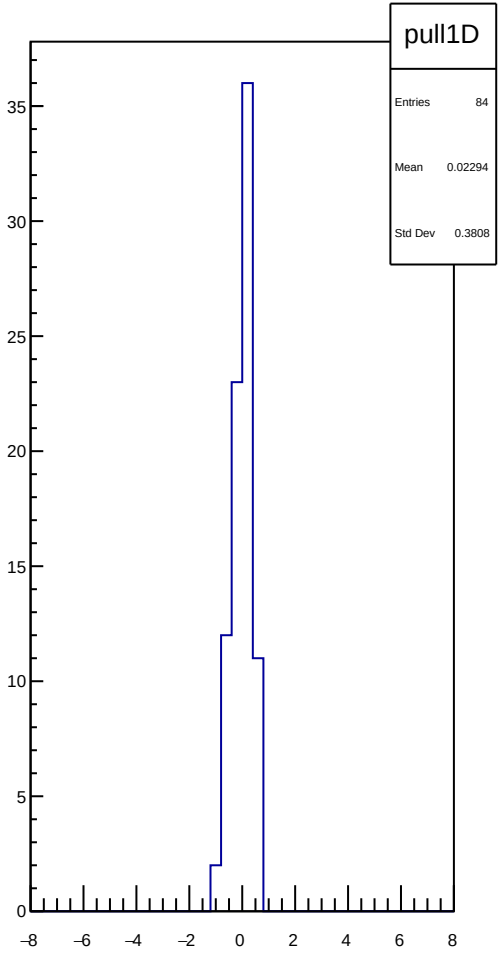

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.64 / 83
p0 −11.6 ± 3.144
pull
Entries 84
Mean 302.7
Std Dev 0

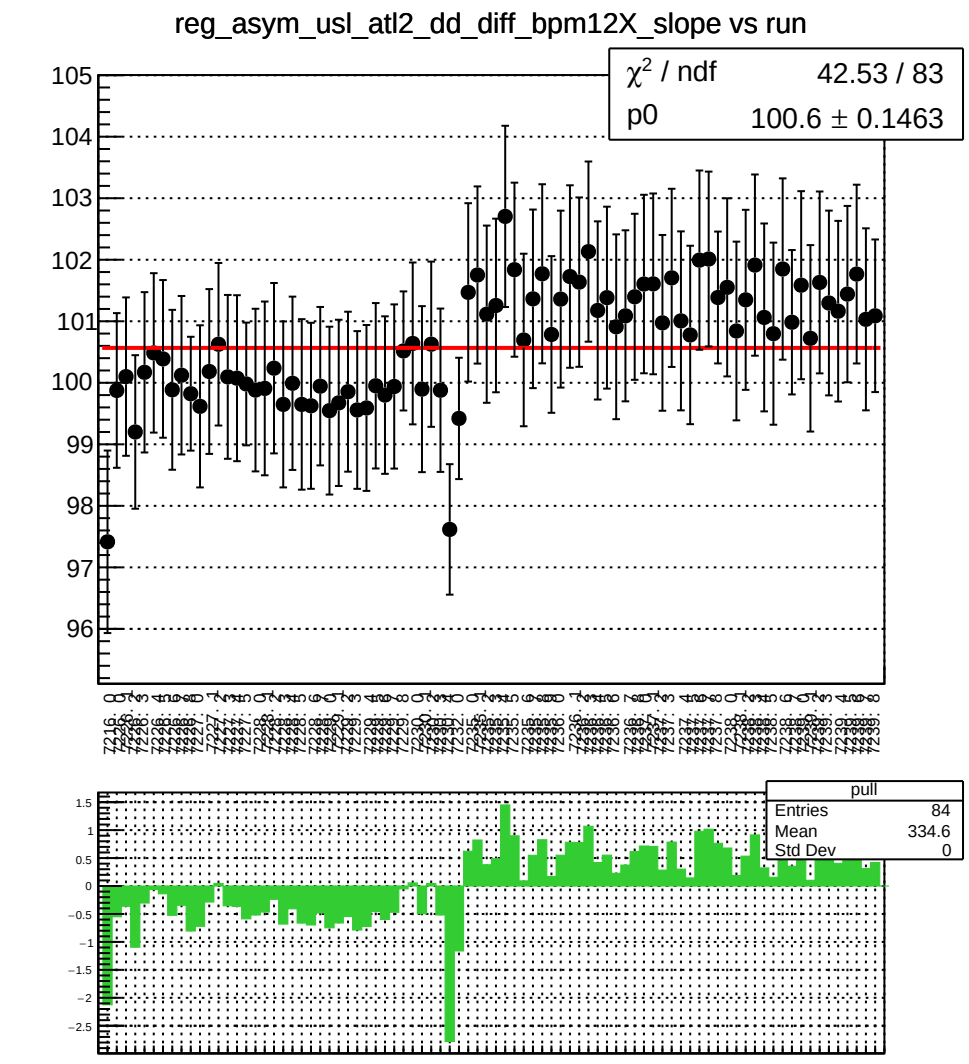

pull1D
Entries 84
Mean −0.02397
Std Dev 0.4022

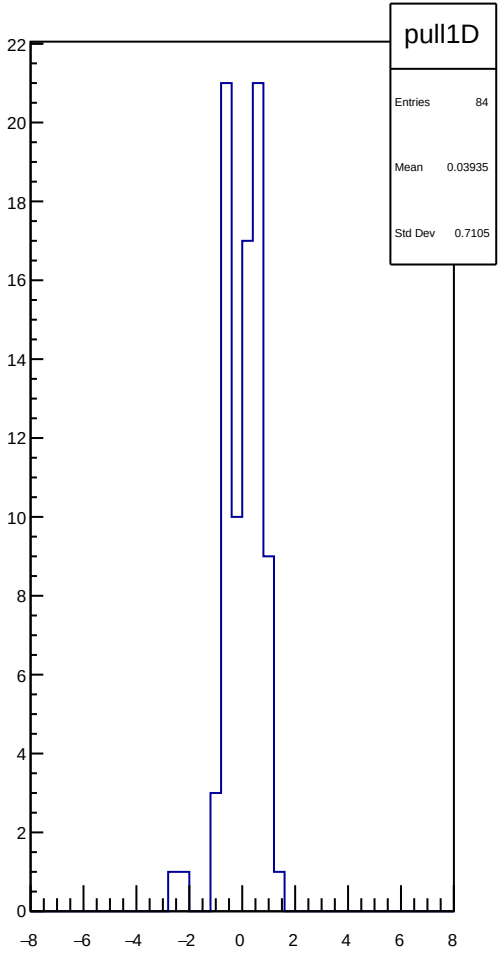

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 18.78 / 83
p0 −200.7 ± 4.268
pull
Entries 84
Mean 366.3
Std Dev 0

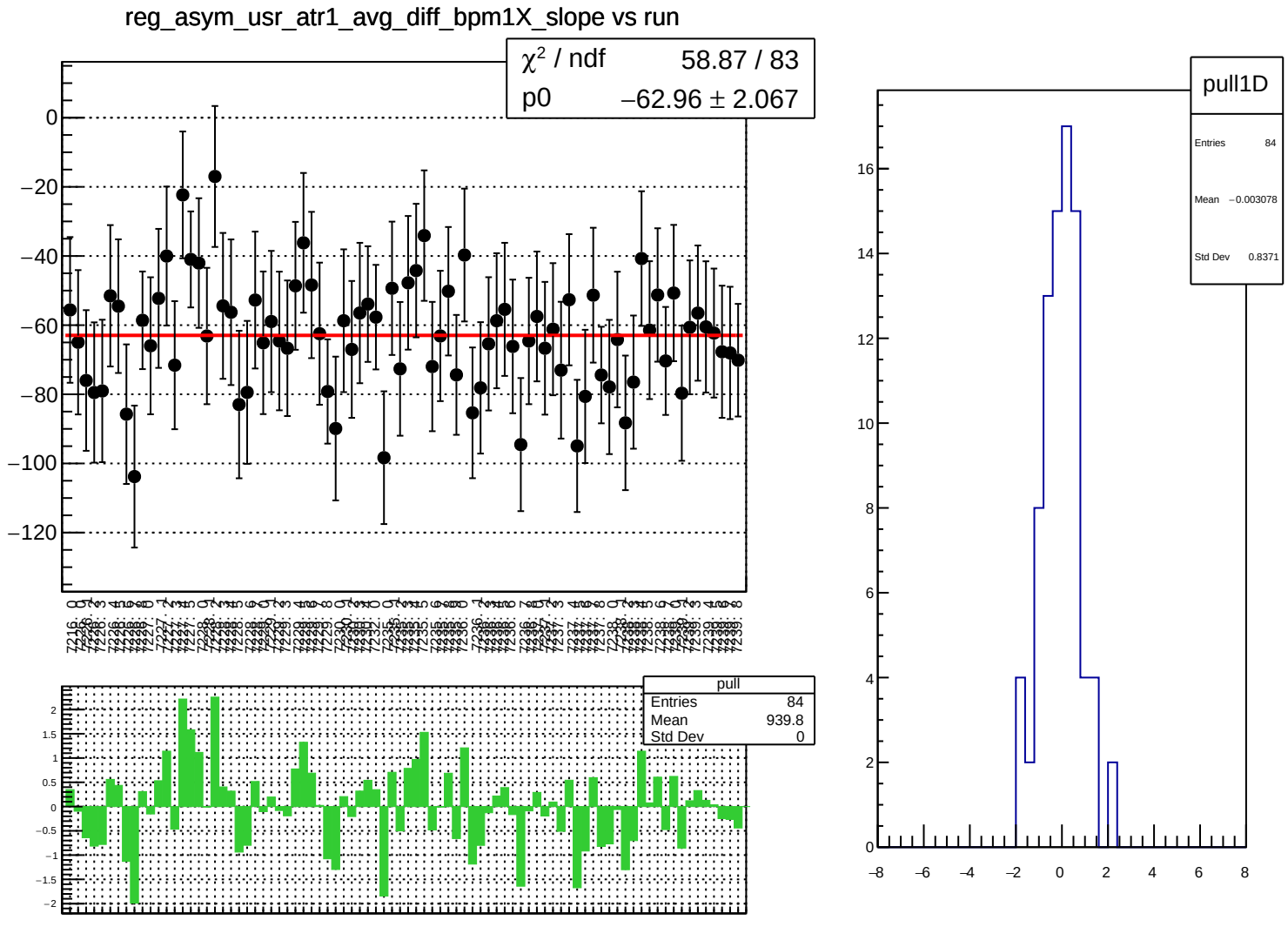

pull1D
Entries 84
Mean −0.01958
Std Dev 0.4724

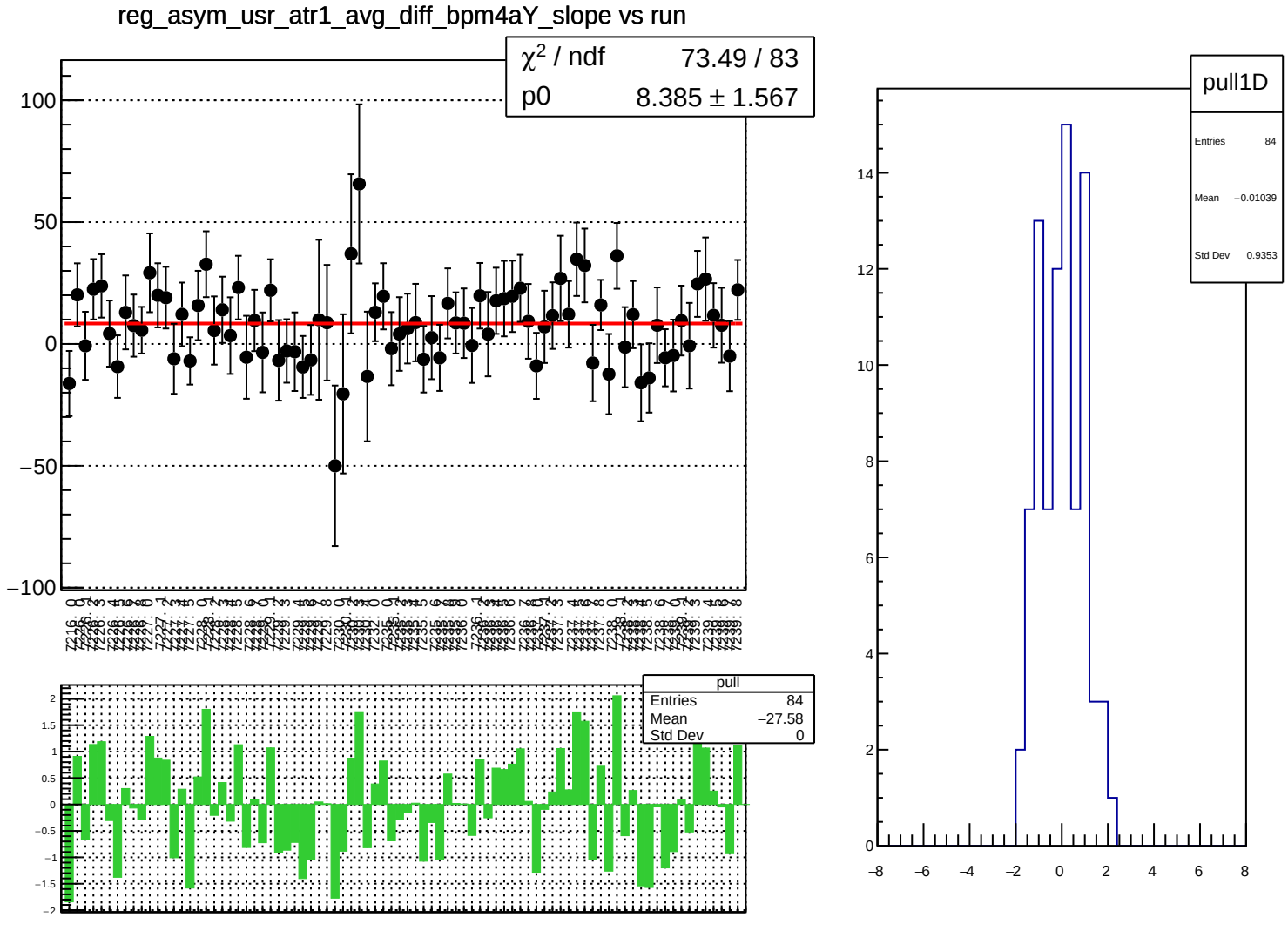

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.23 / 83
p0 −41.02 ± 3.451
pull
Entries 84
Mean 293.1
Std Dev 0

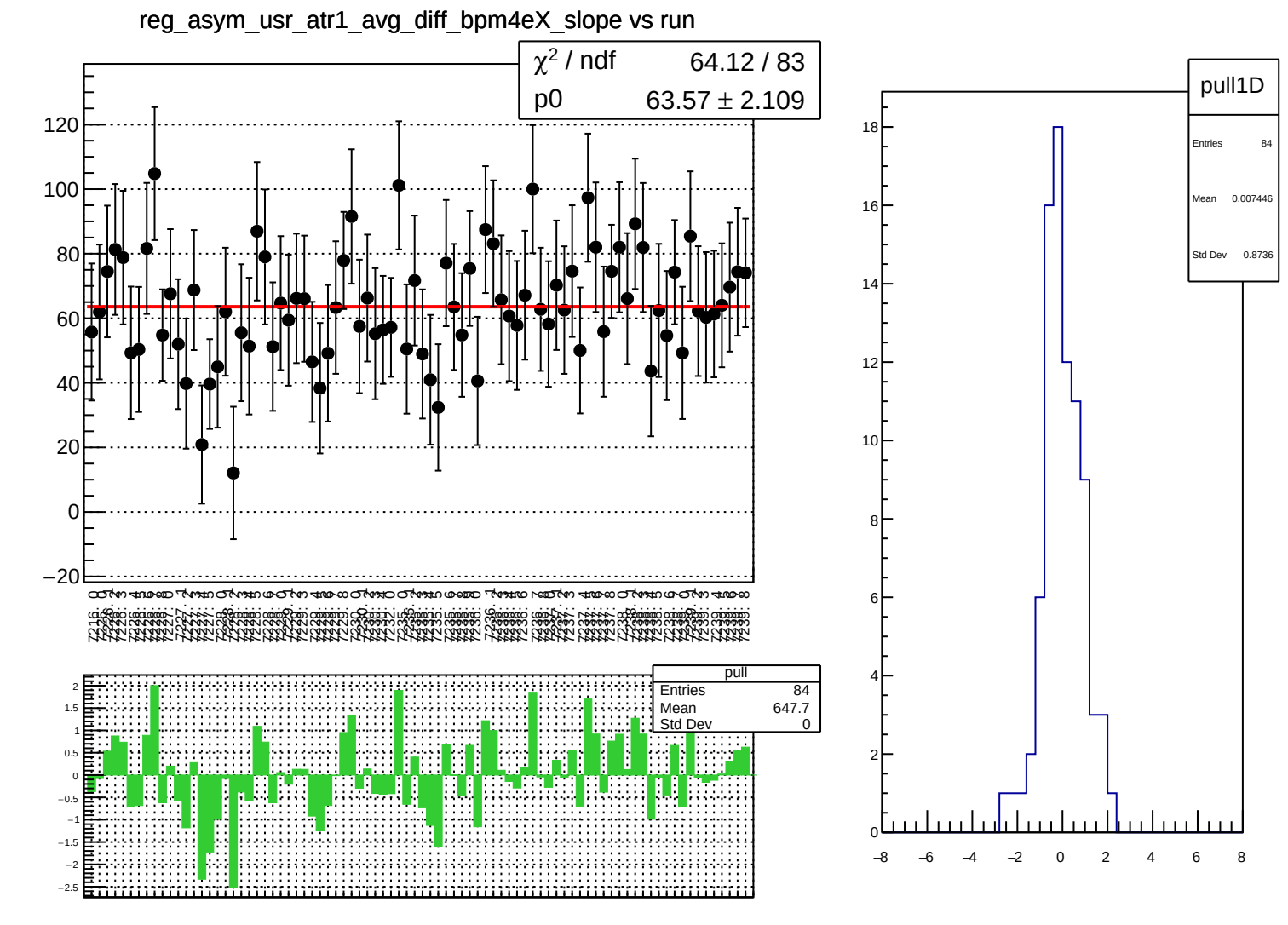

pull1D
Entries 84
Mean 0.02294
Std Dev 0.3808

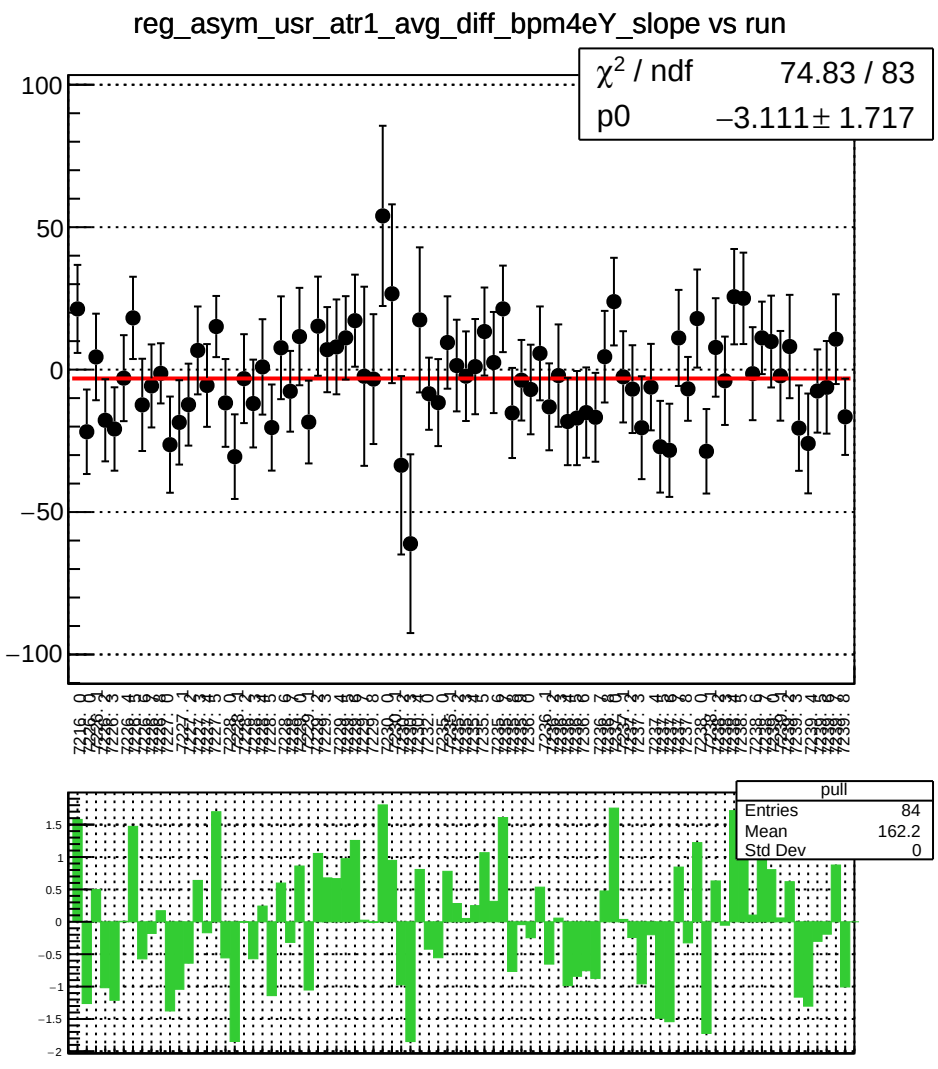

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 42.53 / 83
p0 100.6 ± 0.1463
pull
Entries 84
Mean 334.6
Std Dev 0

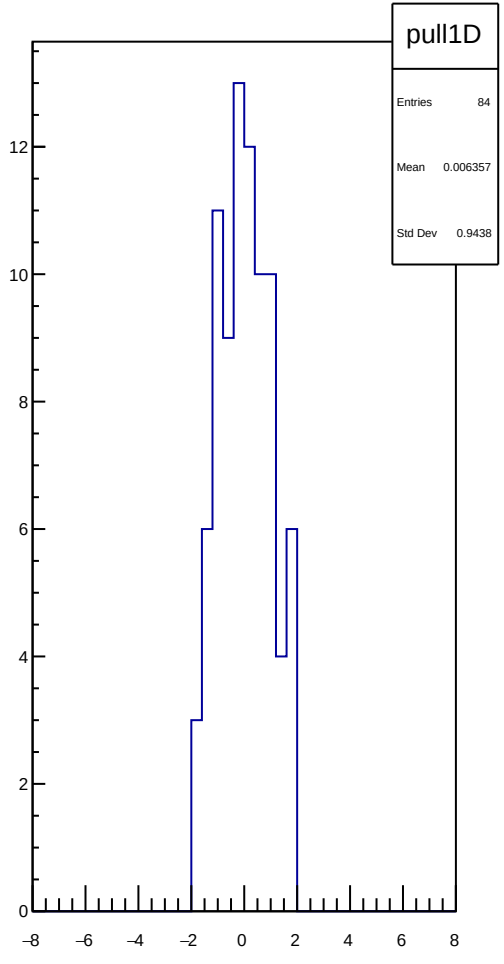

pull1D
Entries 84
Mean 0.03935
Std Dev 0.7105

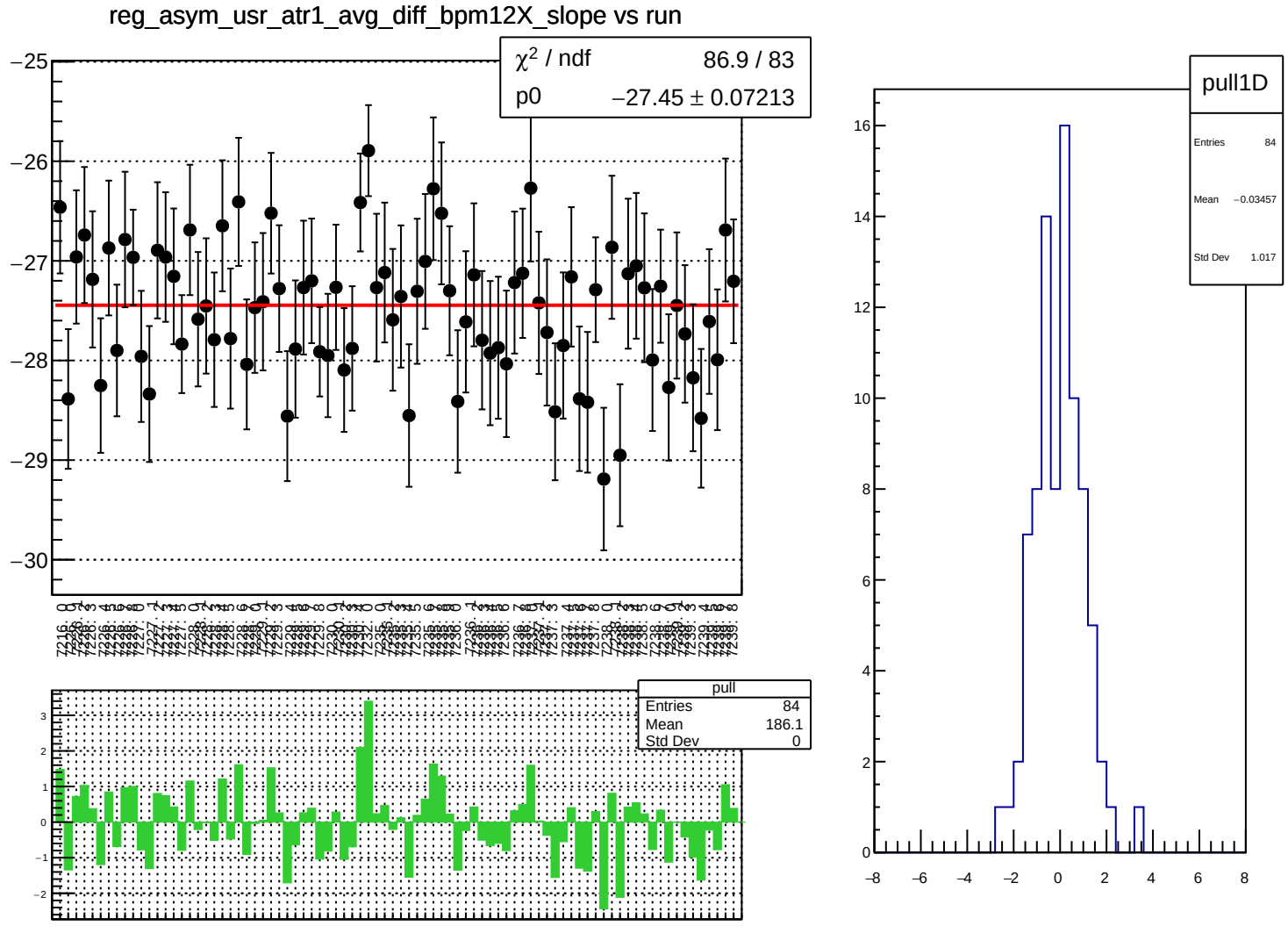

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 58.87 / 83
p0 −62.96 ± 2.067
pull
Entries 84
Mean 939.8
Std Dev 0
pull1D
Entries 84
Mean −0.003078
Std Dev 0.8371

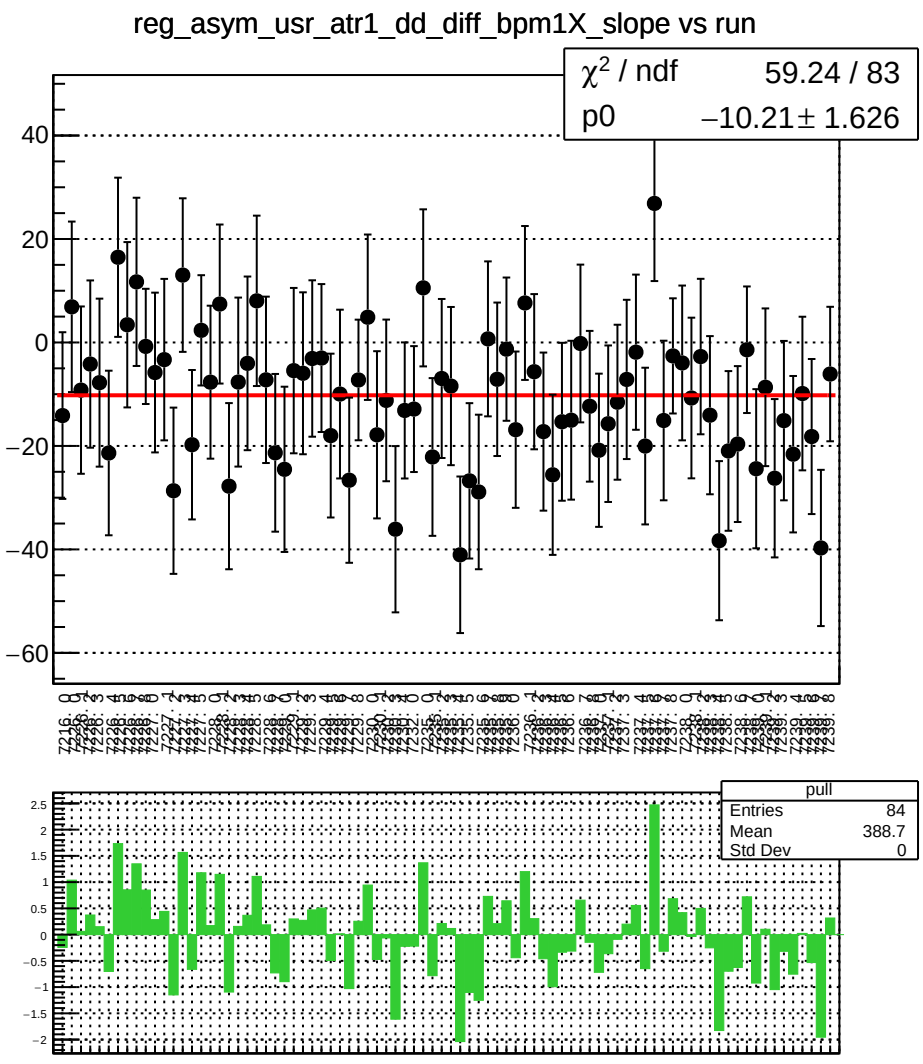

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 73.49 / 83
p0 8.385 ± 1.567
pull
Entries 84
Mean −27.58
Std Dev 0
pull1D
Entries 84
Mean −0.01039
Std Dev 0.9353

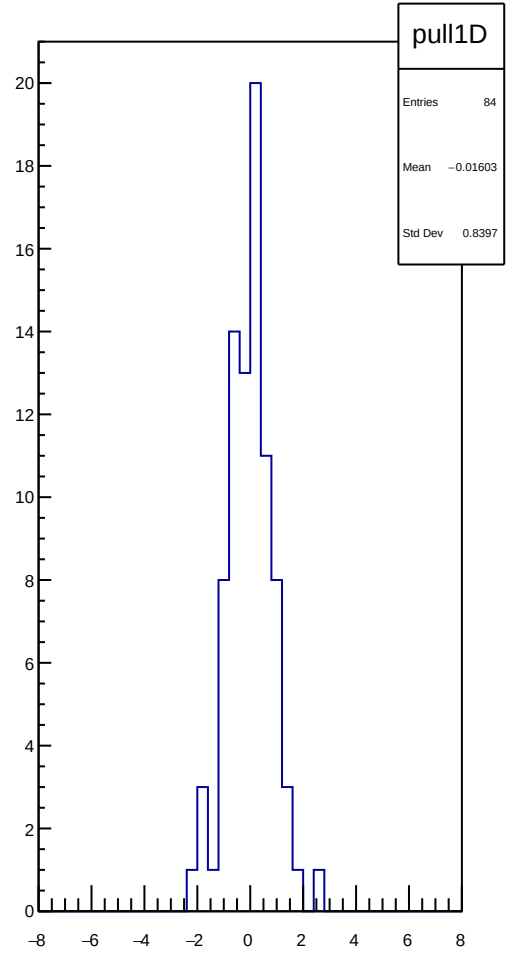

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 64.12 / 83
p0 63.57 ± 2.109
pull
Entries 84
Mean 647.7
Std Dev 0
pull1D
Entries 84
Mean 0.007446
Std Dev 0.8736

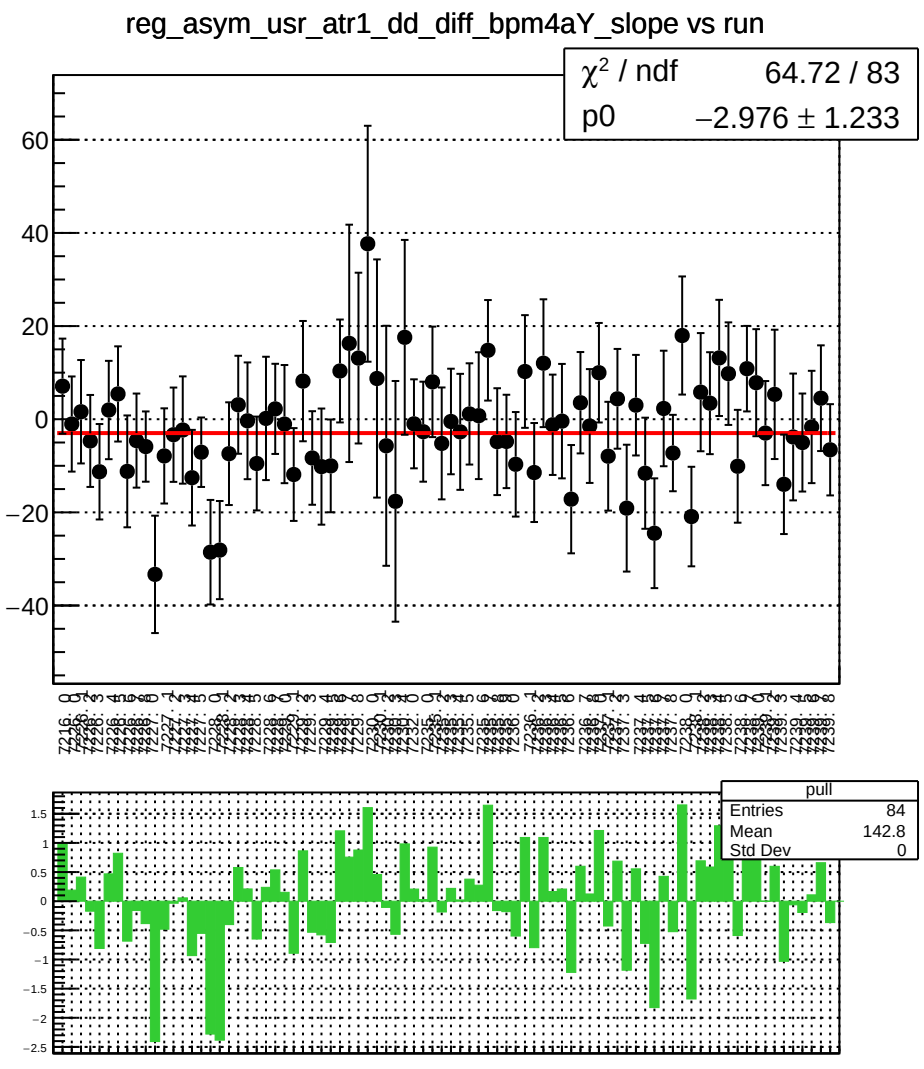

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 74.83 / 83
p0 −3.111 ± 1.717
100
50
0
−50
−100
pull
Entries 84
Mean 162.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

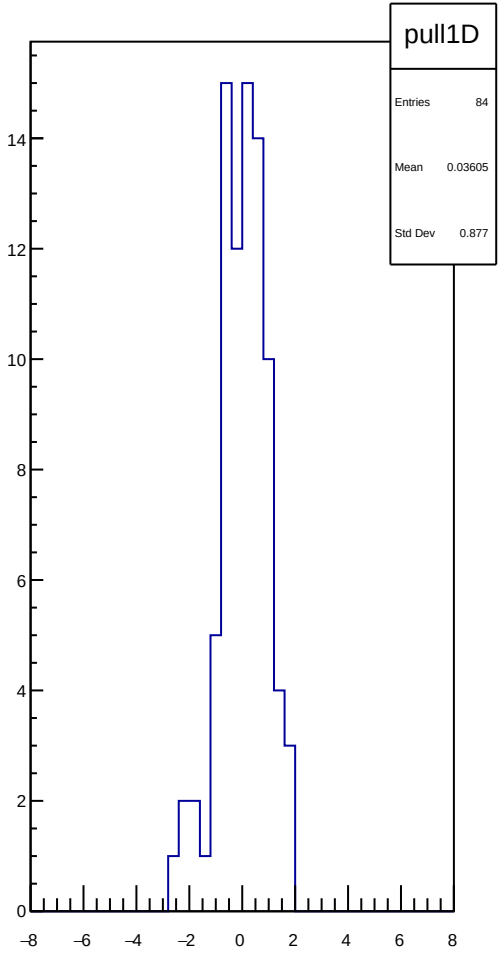

pull1D
Entries 84
Mean 0.006357
Std Dev 0.9438
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

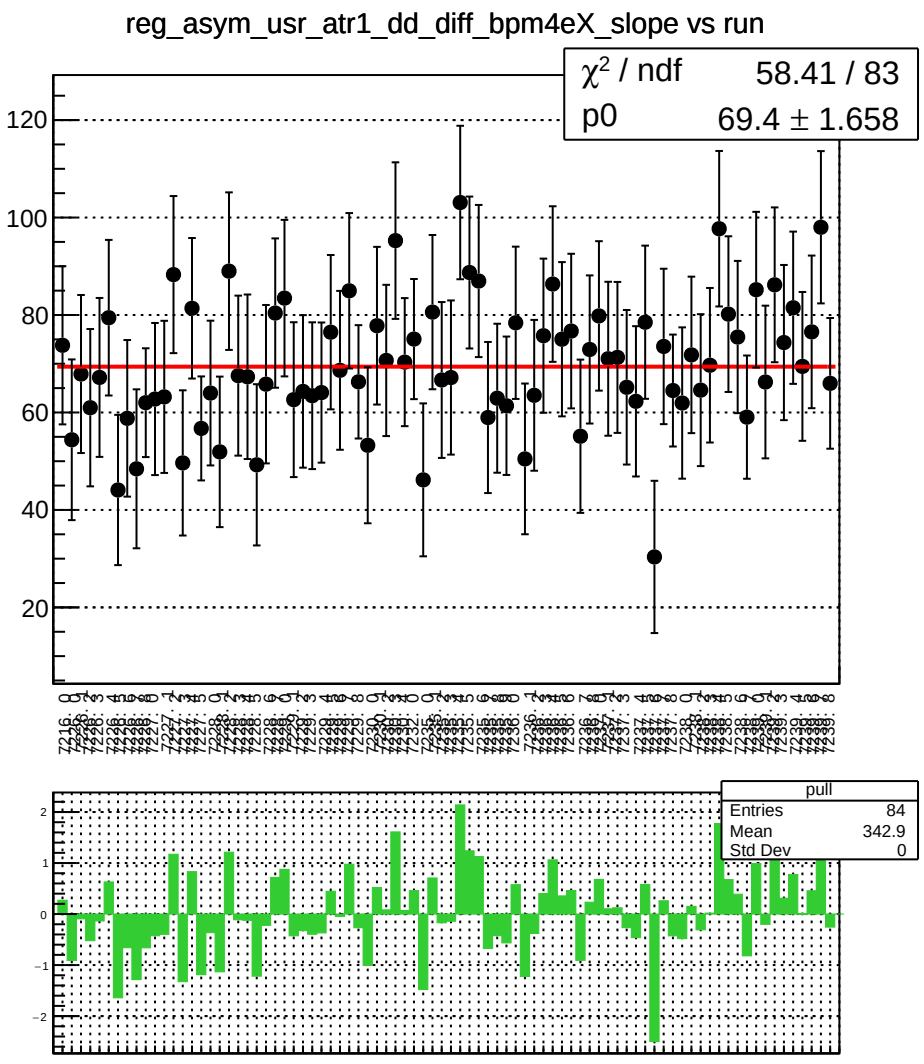

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 86.9 / 83
p0 −27.45 ± 0.07213
pull
Entries 84
Mean 186.1
Std Dev 0
pull1D
Entries 84
Mean −0.03457
Std Dev 1.017

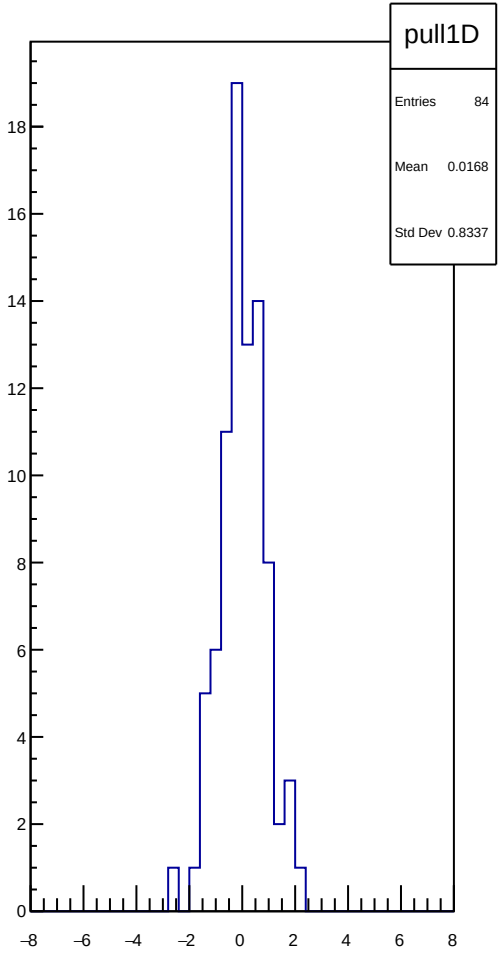

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 59.24 / 83
p0 −10.21± 1.626
pull
Entries 84
Mean 388.7
Std Dev 0

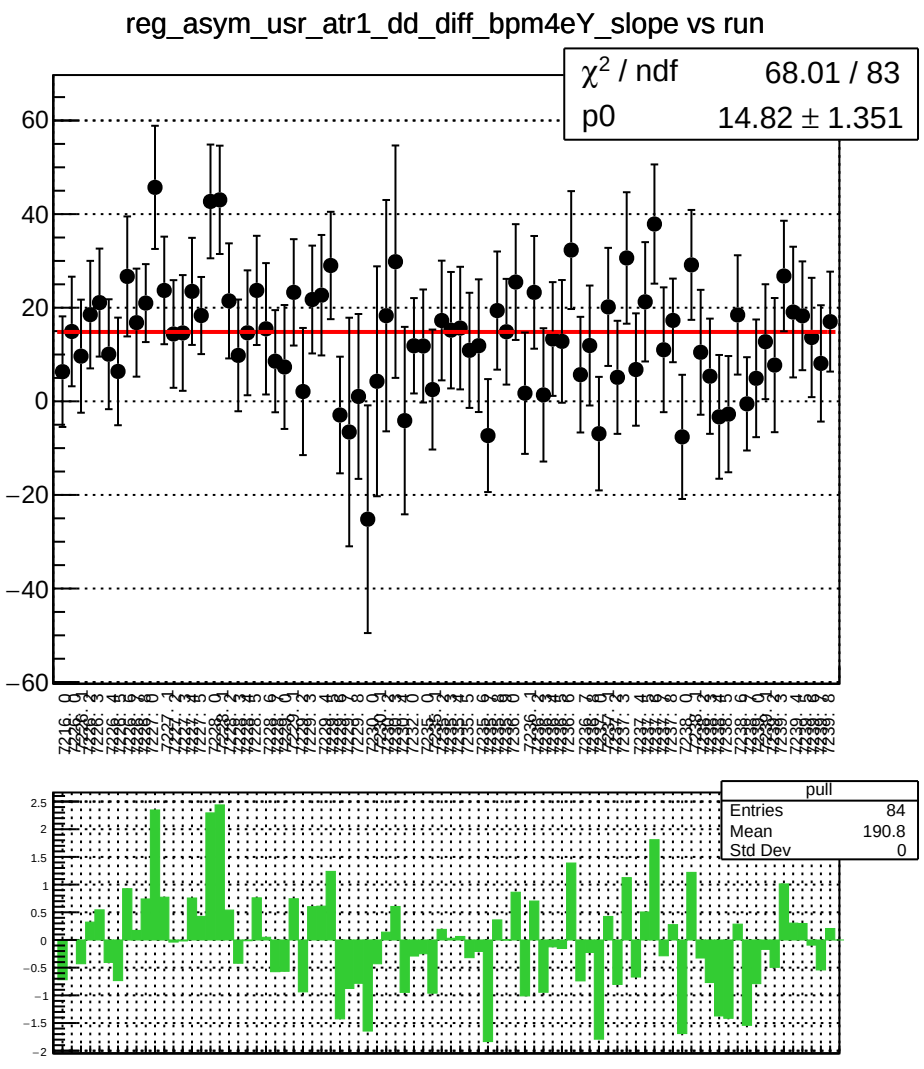

pull1D
Entries 84
Mean −0.01603
Std Dev 0.8397

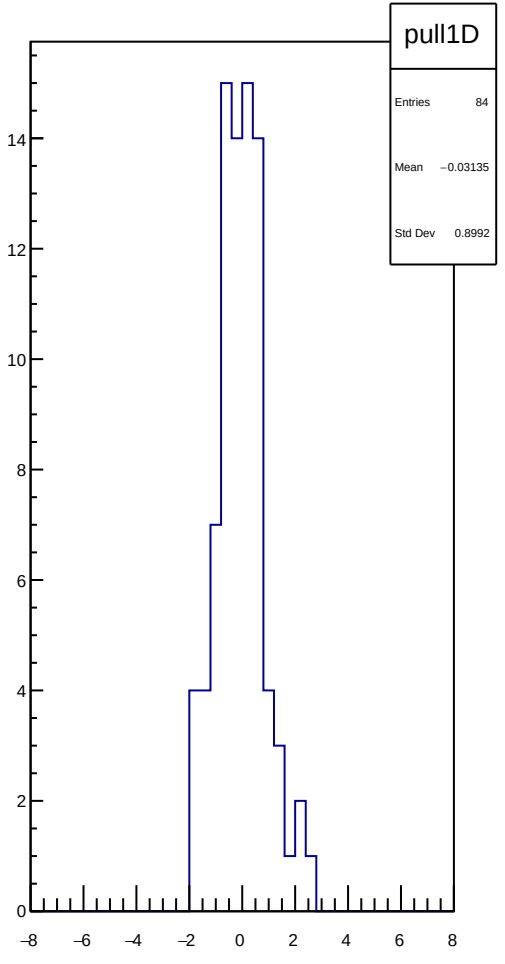

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 64.72 / 83
p0 −2.976 ± 1.233
pull
Entries 84
Mean 142.8
Std Dev 0

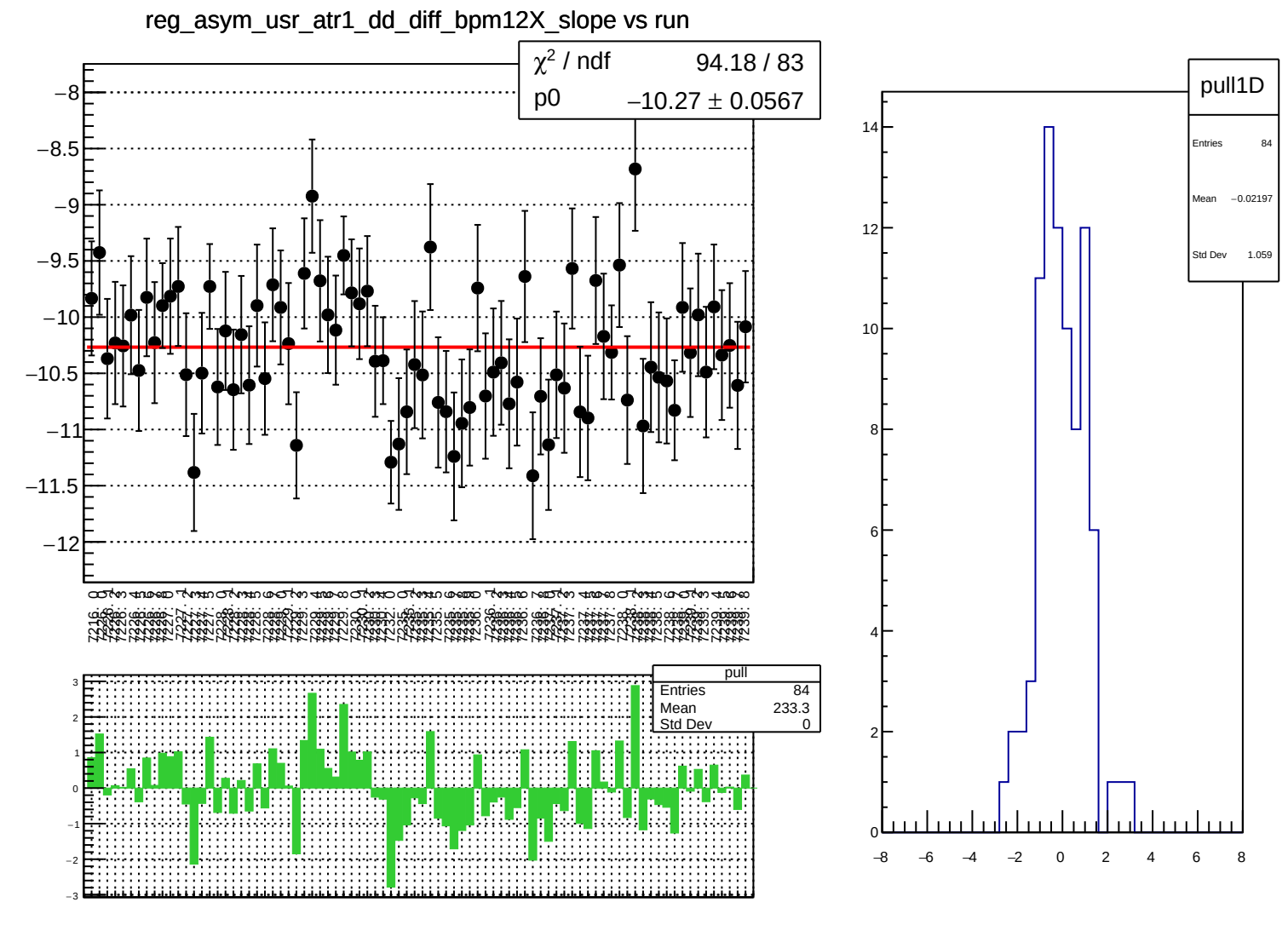

pull1D
Entries 84
Mean 0.03605
Std Dev 0.877

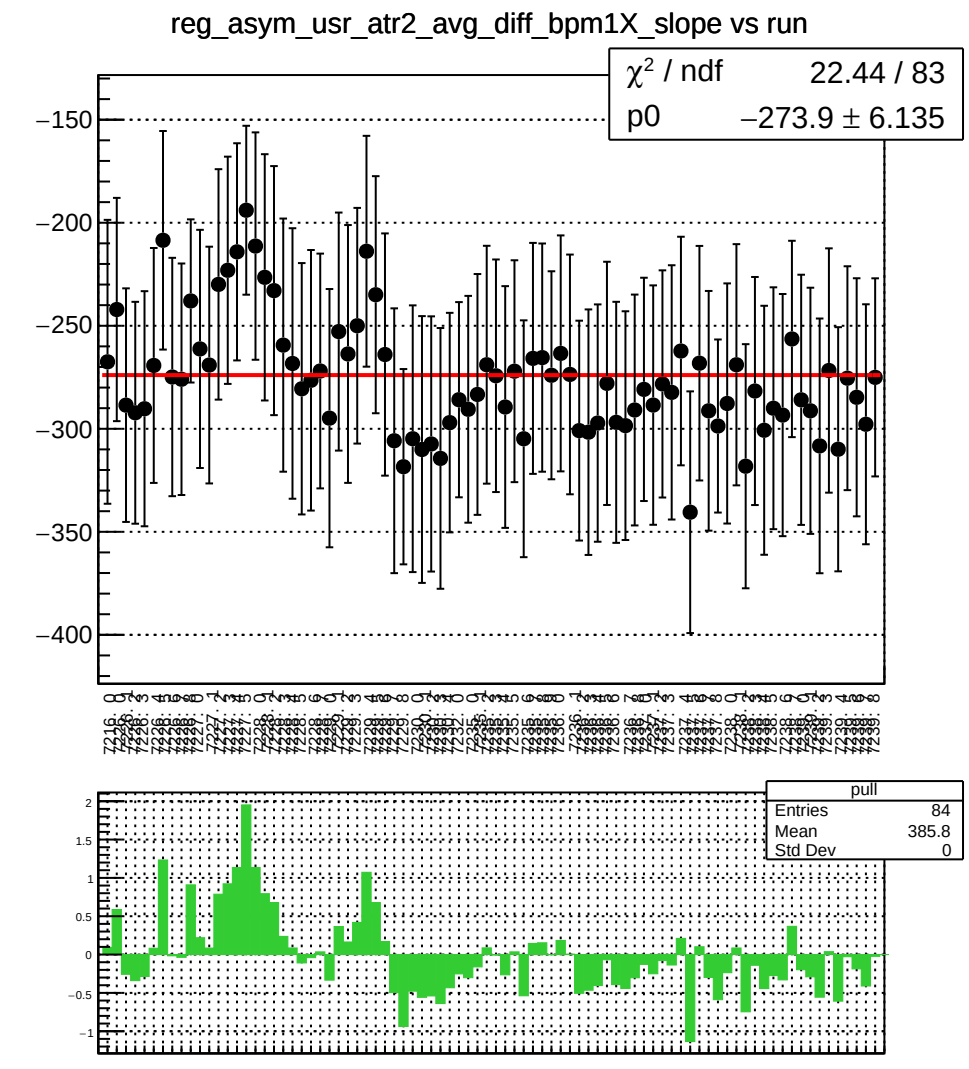

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 58.41 / 83
p0 69.4 ± 1.658
120
100
80
60
40
20
pull
Entries 84
Mean 342.9
Std Dev 0
2
1
0
−1
−2

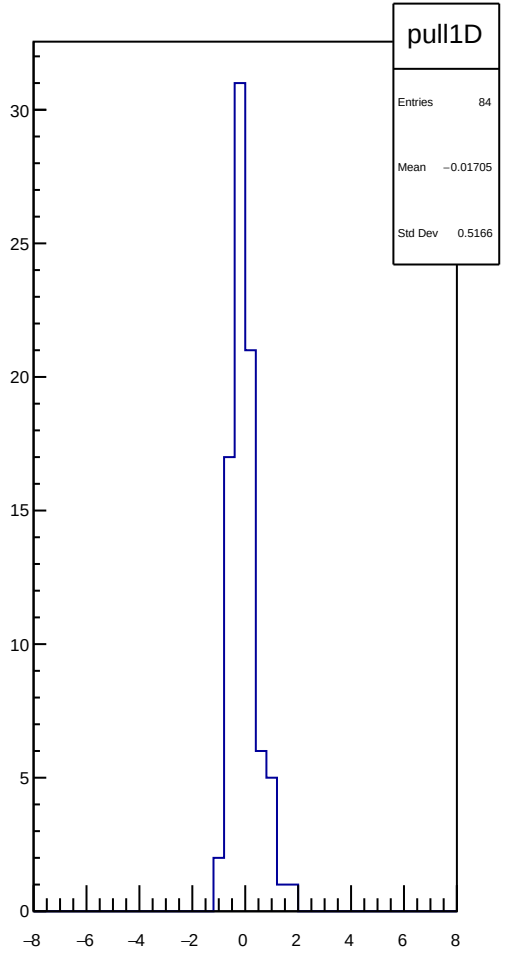

pull1D
Entries 84
Mean 0.0168
Std Dev 0.8337
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

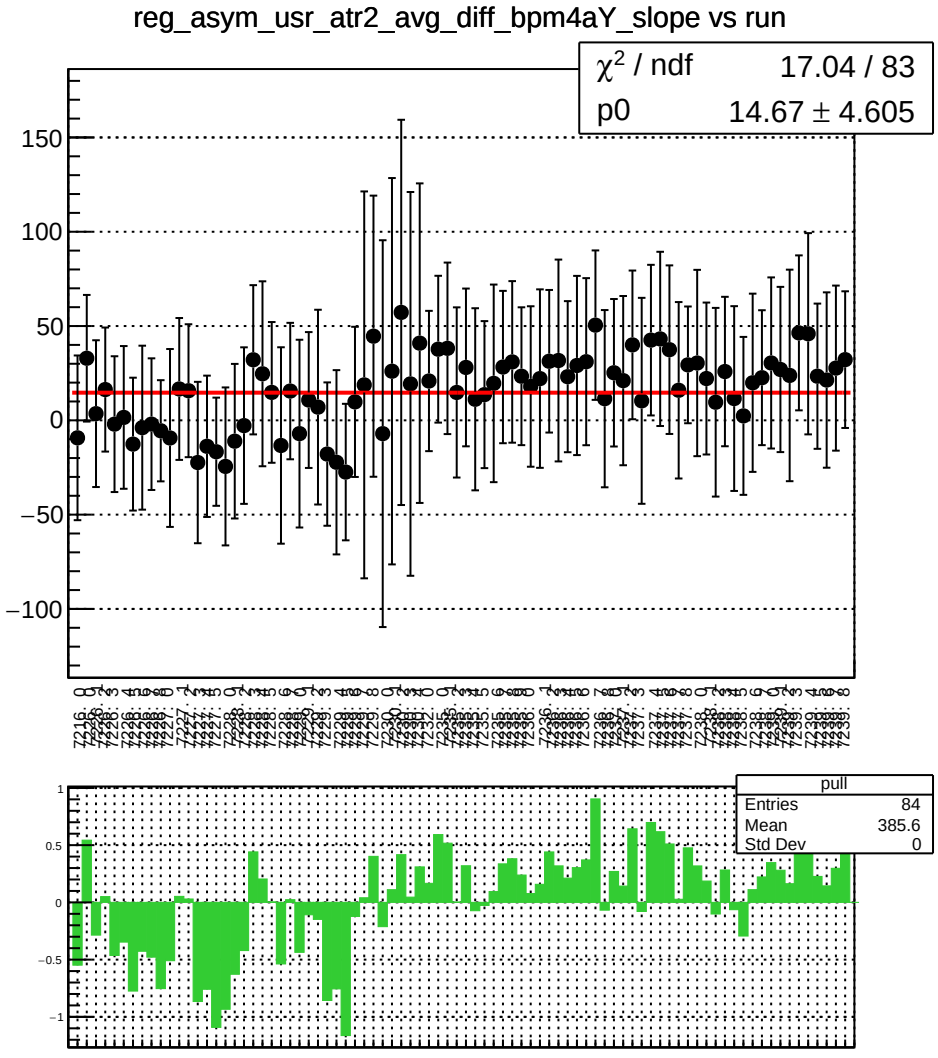

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 68.01 / 83
p0 14.82 ± 1.351
pull
Entries 84
Mean 190.8
Std Dev 0

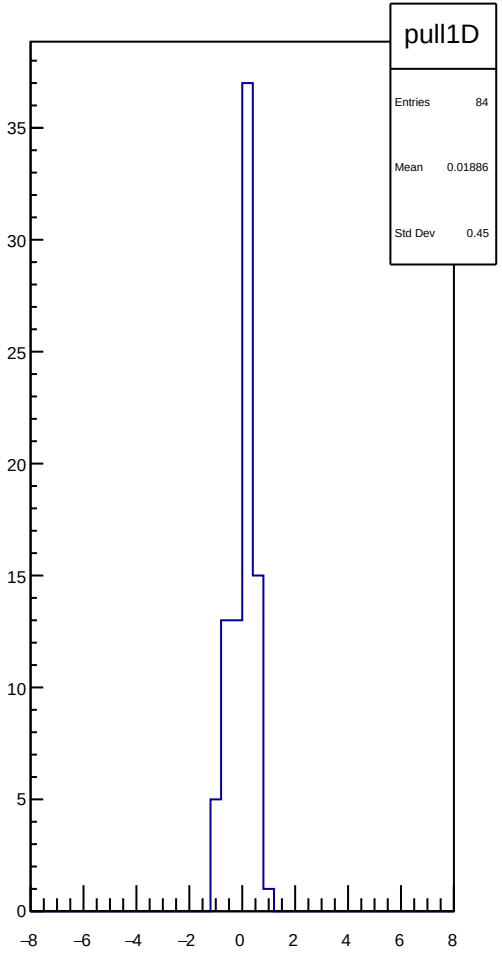

pull1D
Entries 84
Mean −0.03135
Std Dev 0.8992

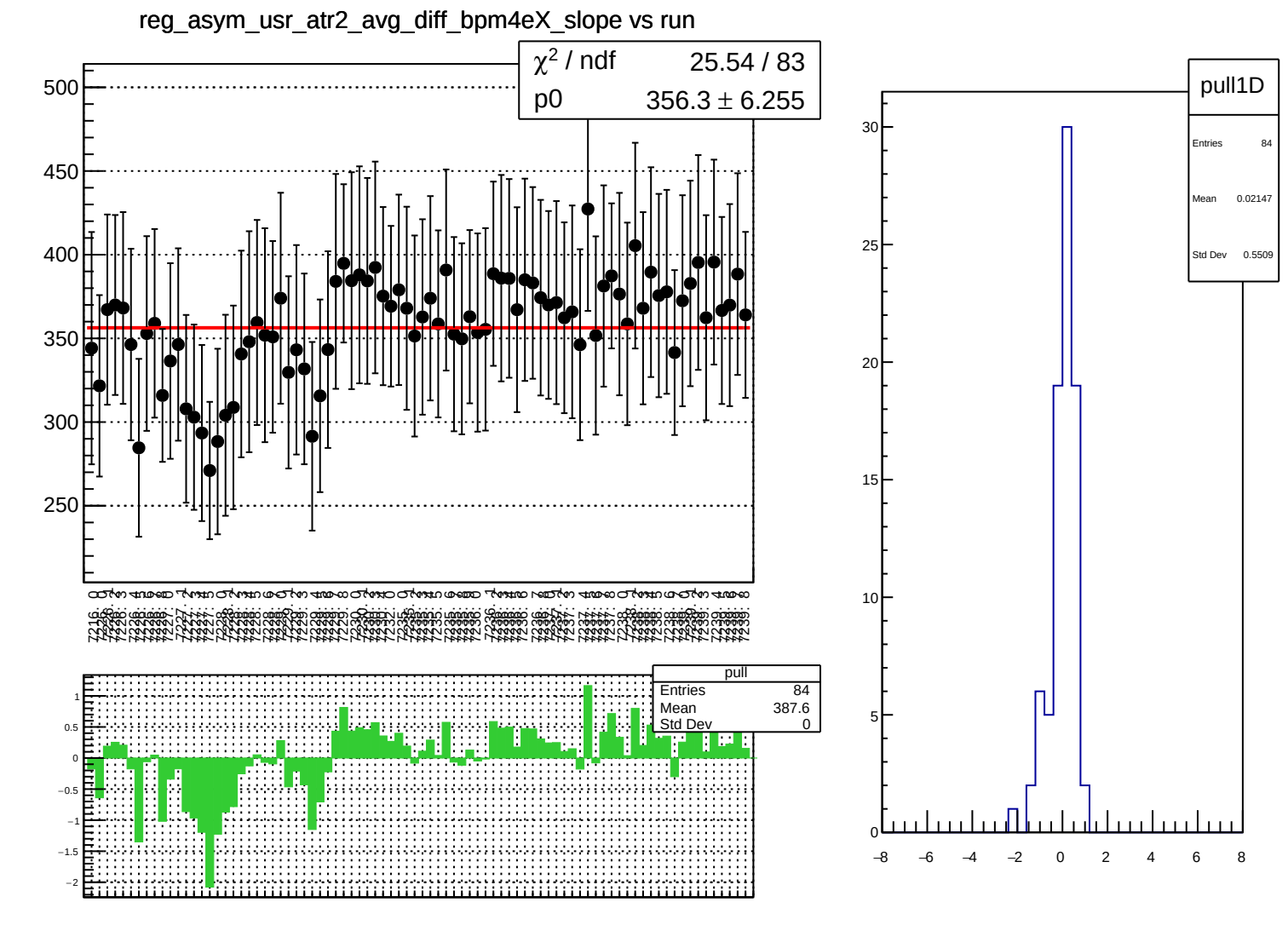

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 94.18 / 83
p0 −10.27 ± 0.0567
pull
Entries 84
Mean 233.3
Std Dev 0
pull1D
Entries 84
Mean −0.02197
Std Dev 1.059

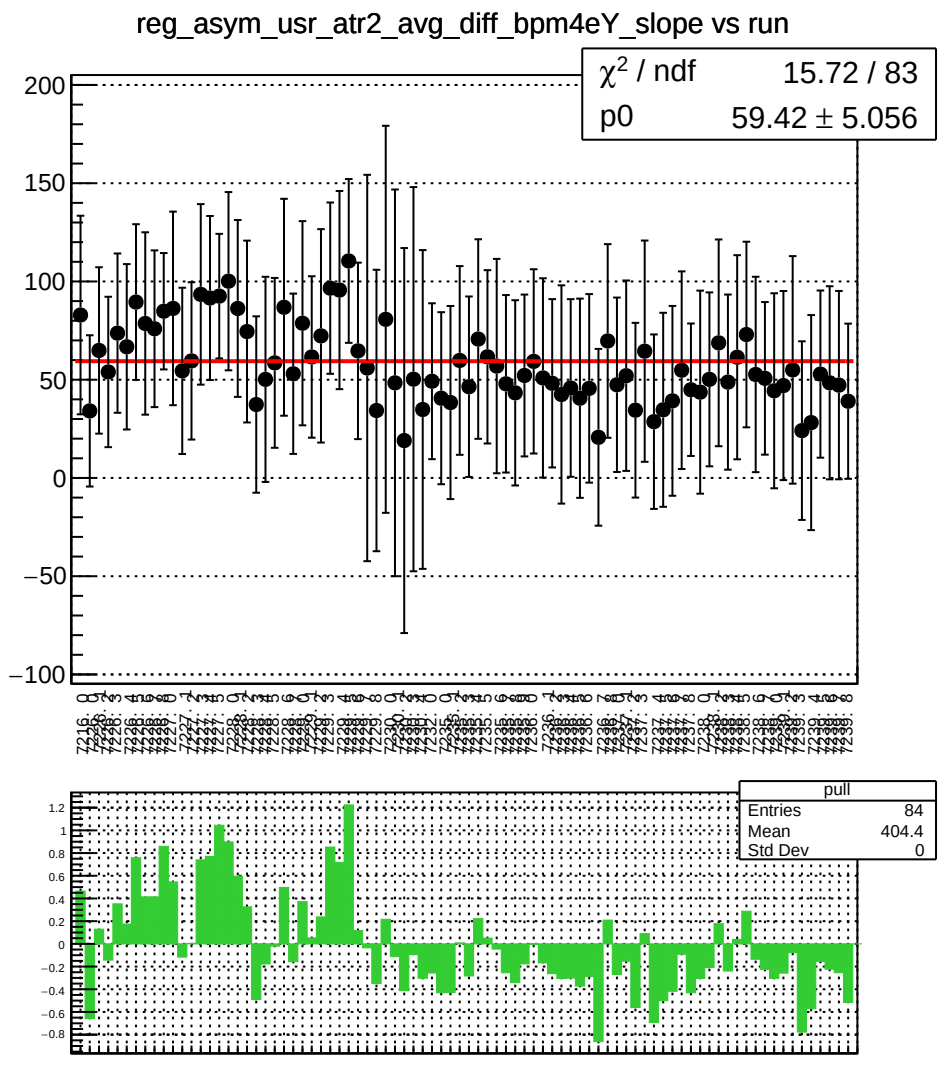

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 22.44 / 83
p0 −273.9 ± 6.135
−150
−200
−250
−300
−350
−400
pull
Entries 84
Mean 385.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

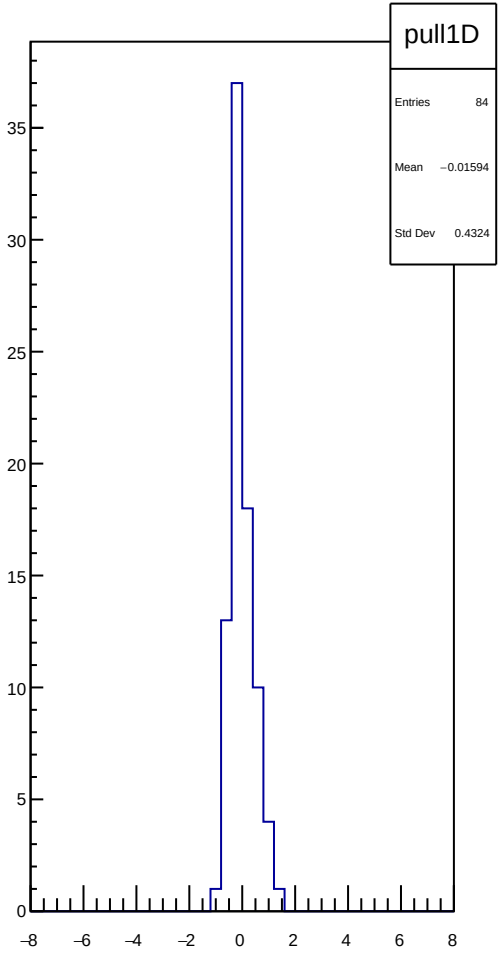

pull1D
Entries 84
Mean −0.01705
Std Dev 0.5166
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

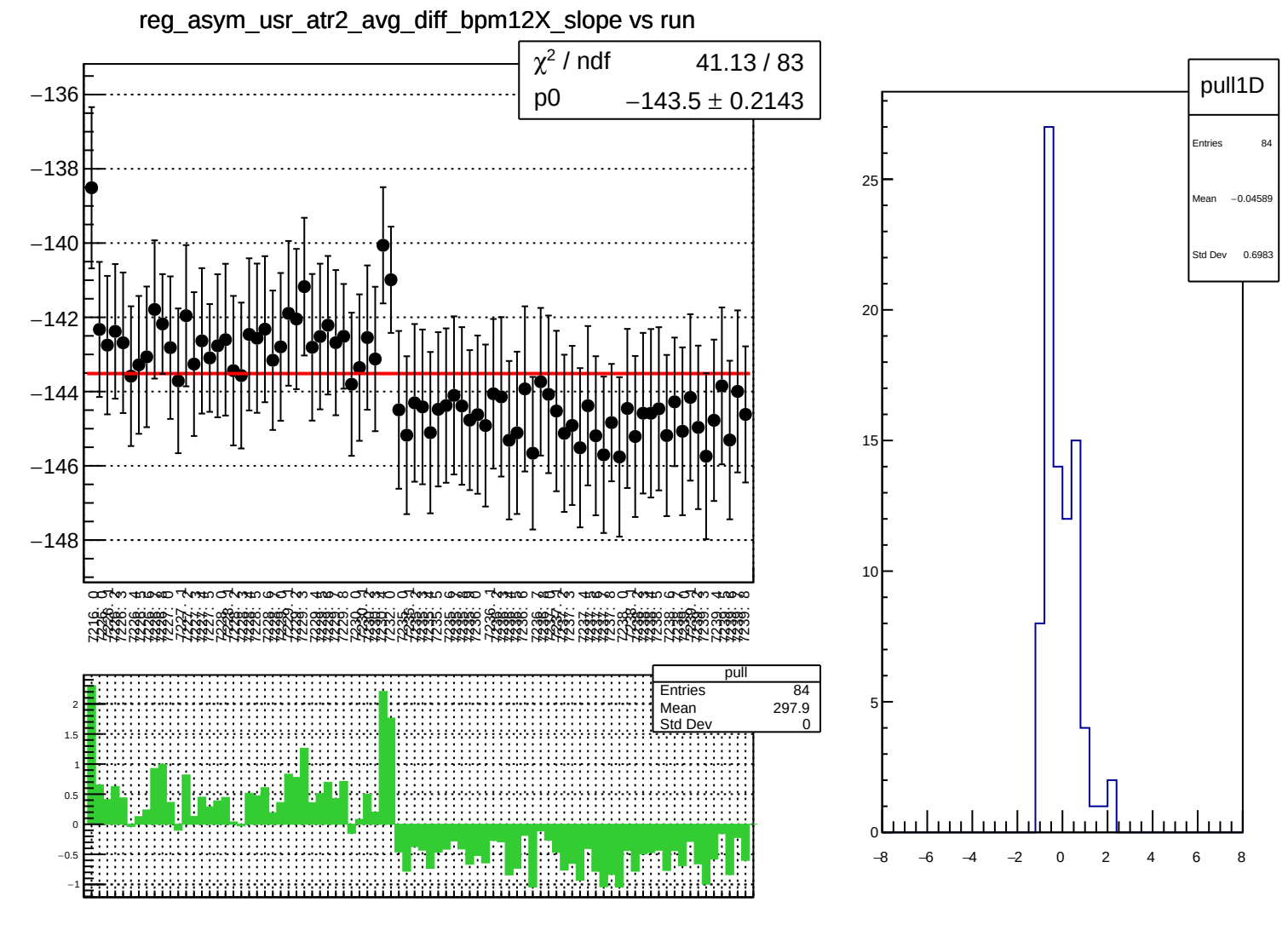

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 17.04 / 83
p0 14.67 ± 4.605
150
100
50
0
−50
−100
pull
Entries 84
Mean 385.6
Std Dev 0
1
0.5
0
−0.5
−1

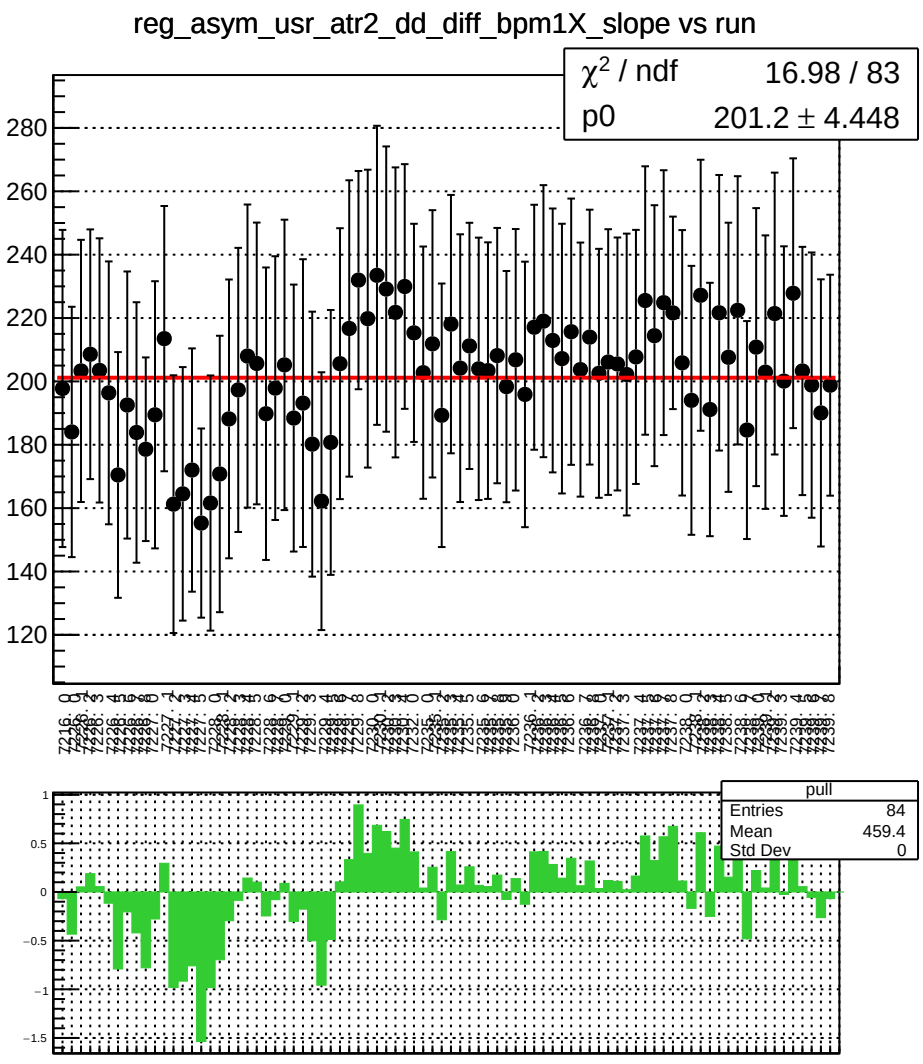

pull1D
Entries 84
Mean 0.01886
Std Dev 0.45
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

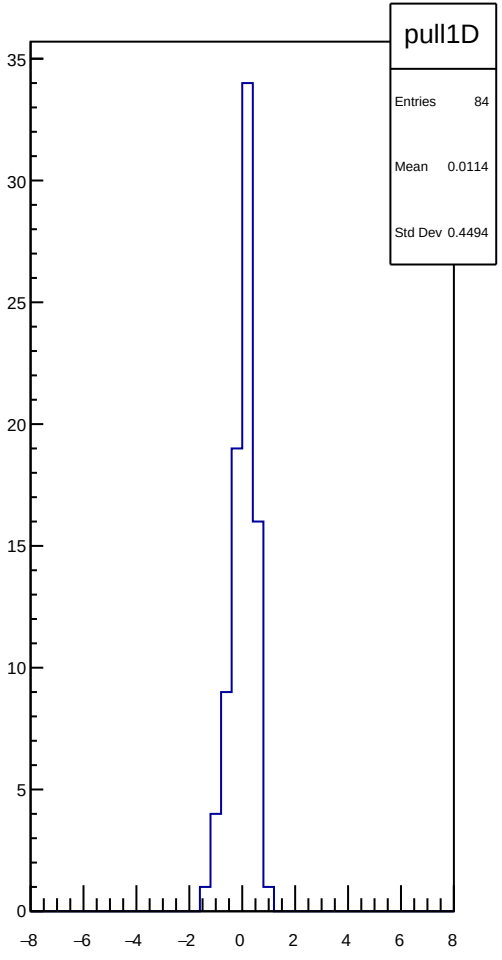

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 25.54 / 83
p0 356.3 ± 6.255
500
450
400
350
300
250
pull
Entries 84
Mean 387.6
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 84
Mean 0.02147
Std Dev 0.5509
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

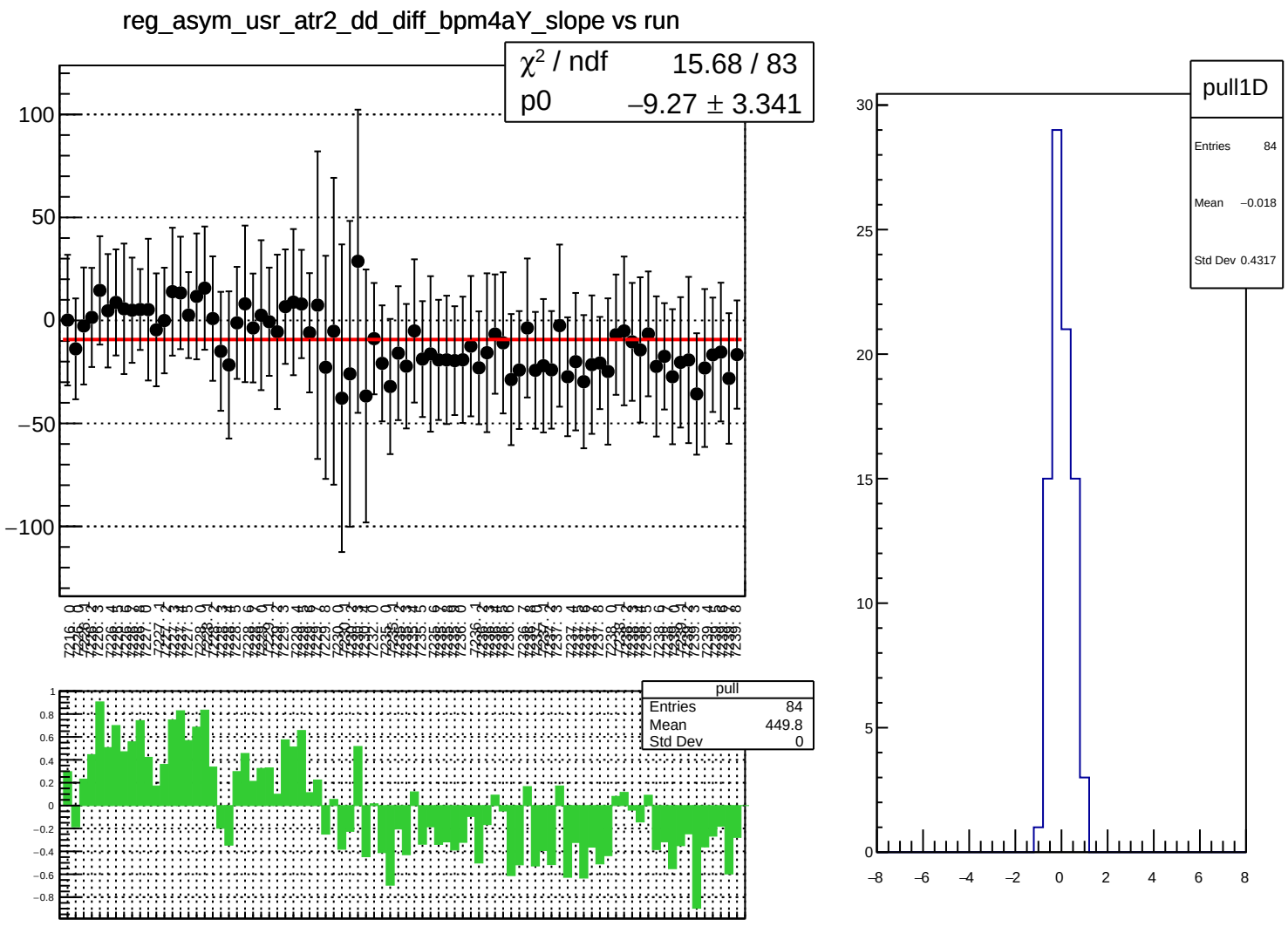

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 15.72 / 83
p0 59.42 ± 5.056
pull
Entries 84
Mean 404.4
Std Dev 0

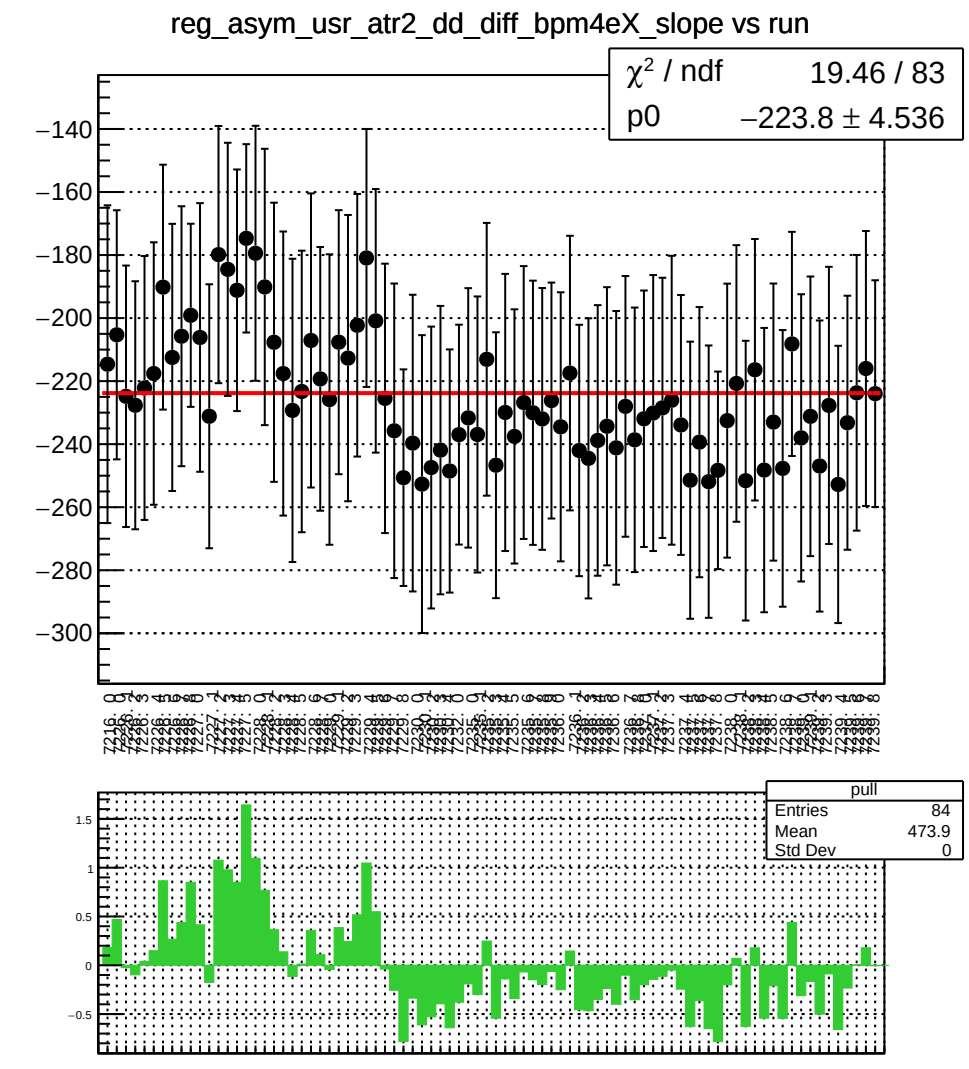

pull1D
Entries 84
Mean −0.01594
Std Dev 0.4324

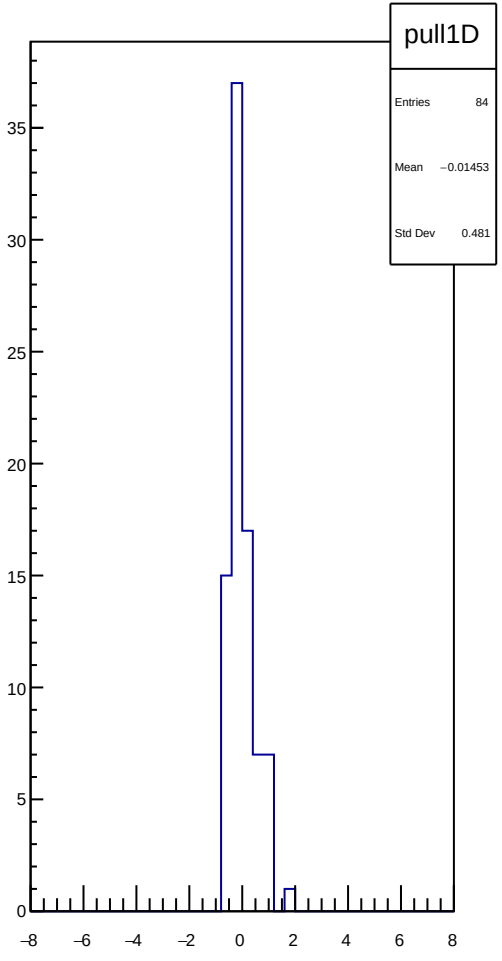

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 41.13 / 83
p0 −143.5 ± 0.2143
pull
Entries 84
Mean 297.9
Std Dev 0
pull1D
Entries 84
Mean −0.04589
Std Dev 0.6983

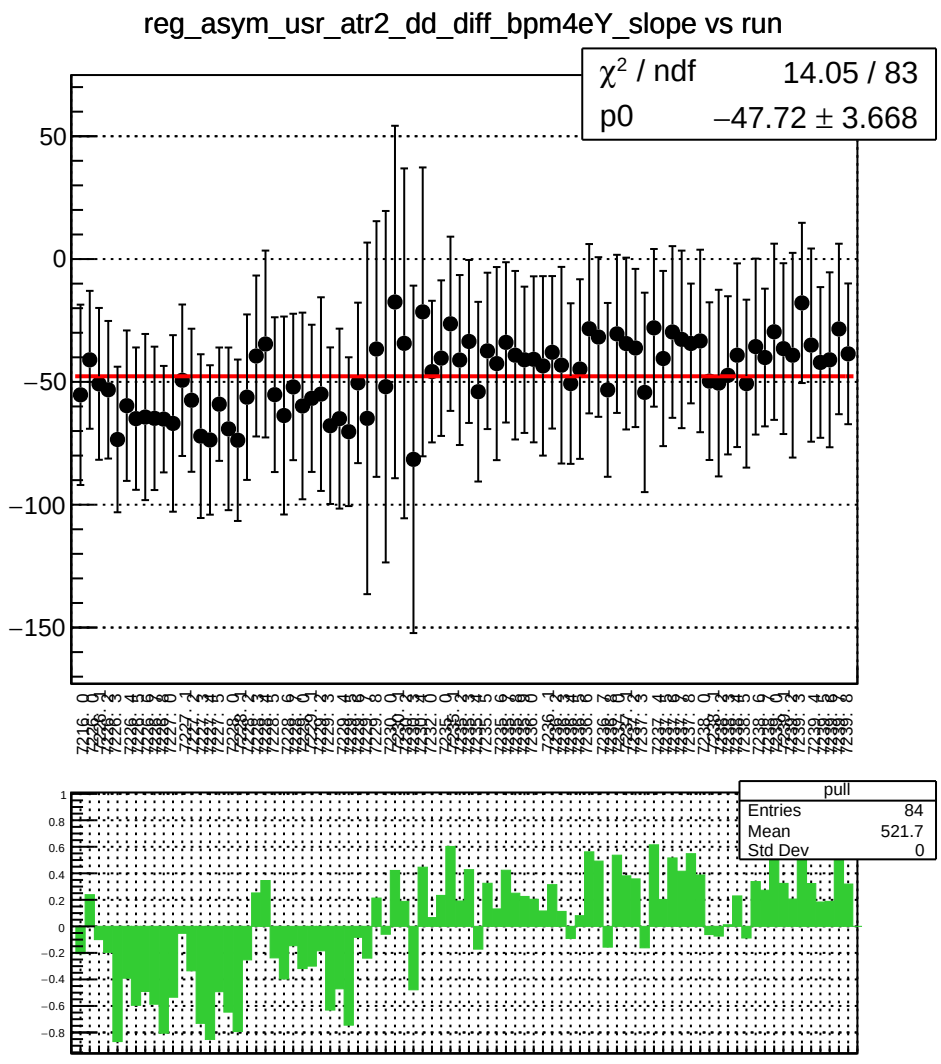

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 16.98 / 83
p0 201.2 ± 4.448
pull
Entries 84
Mean 459.4
Std Dev 0

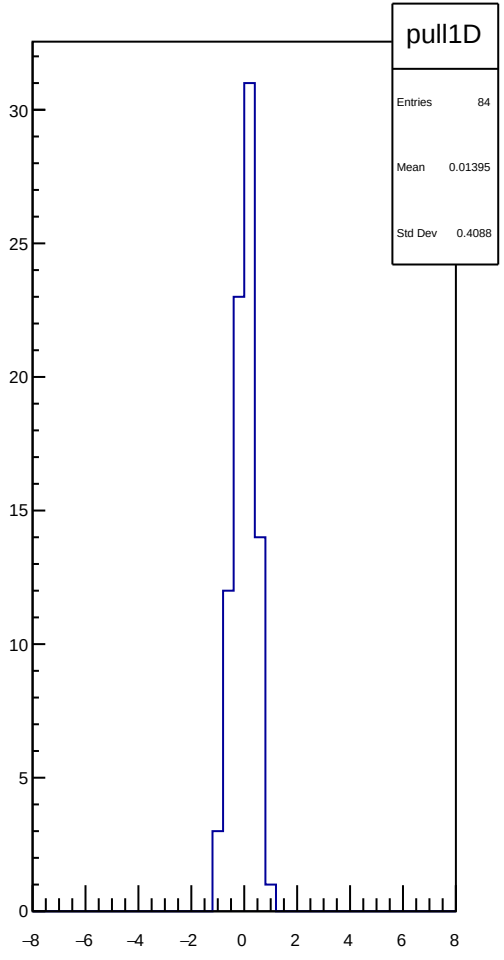

pull1D
Entries 84
Mean 0.0114
Std Dev 0.4494

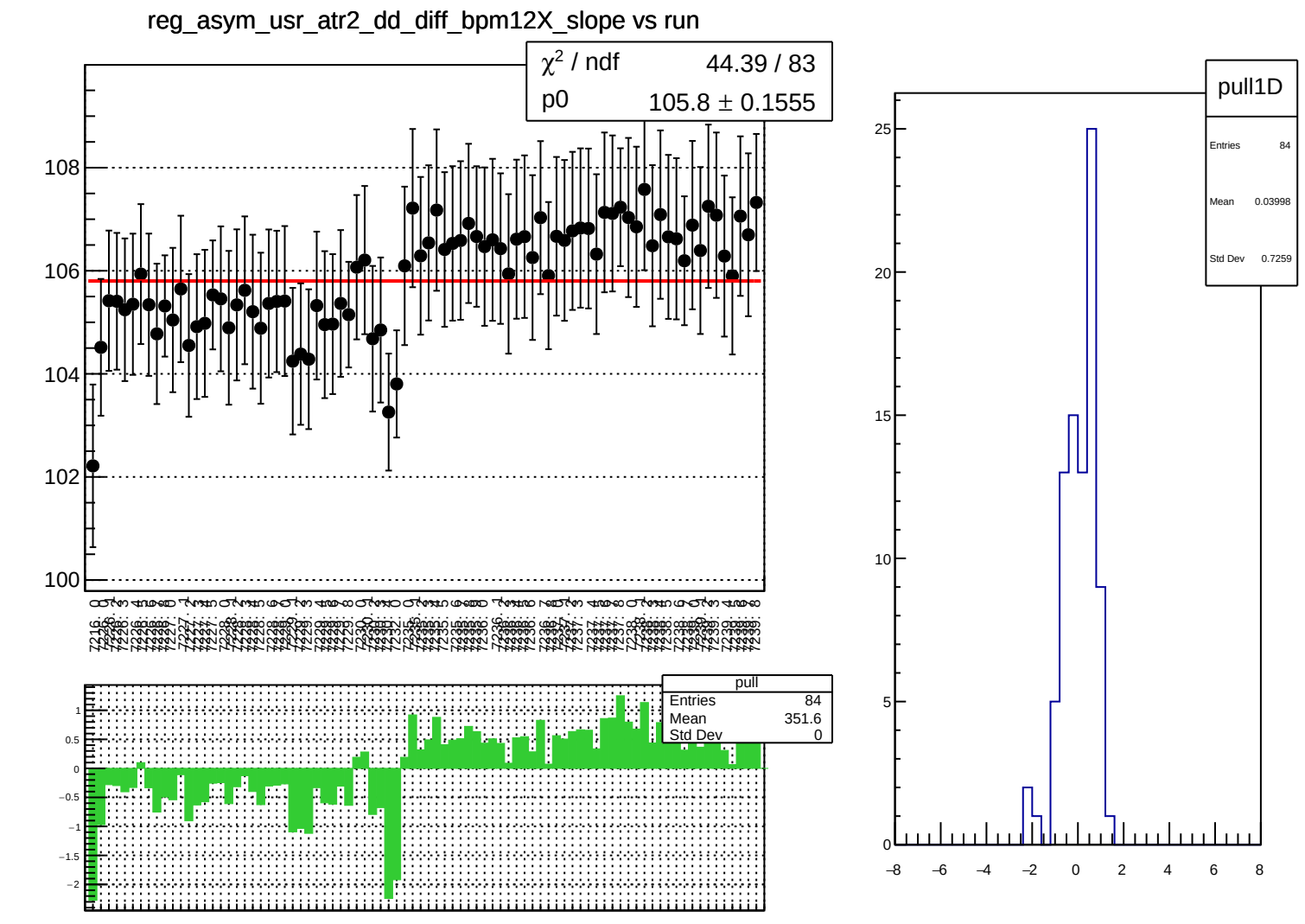

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.68 / 83
p0 −9.27 ± 3.341
pull
Entries 84
Mean 449.8
Std Dev 0
pull1D
Entries 84
Mean −0.018
Std Dev 0.4317

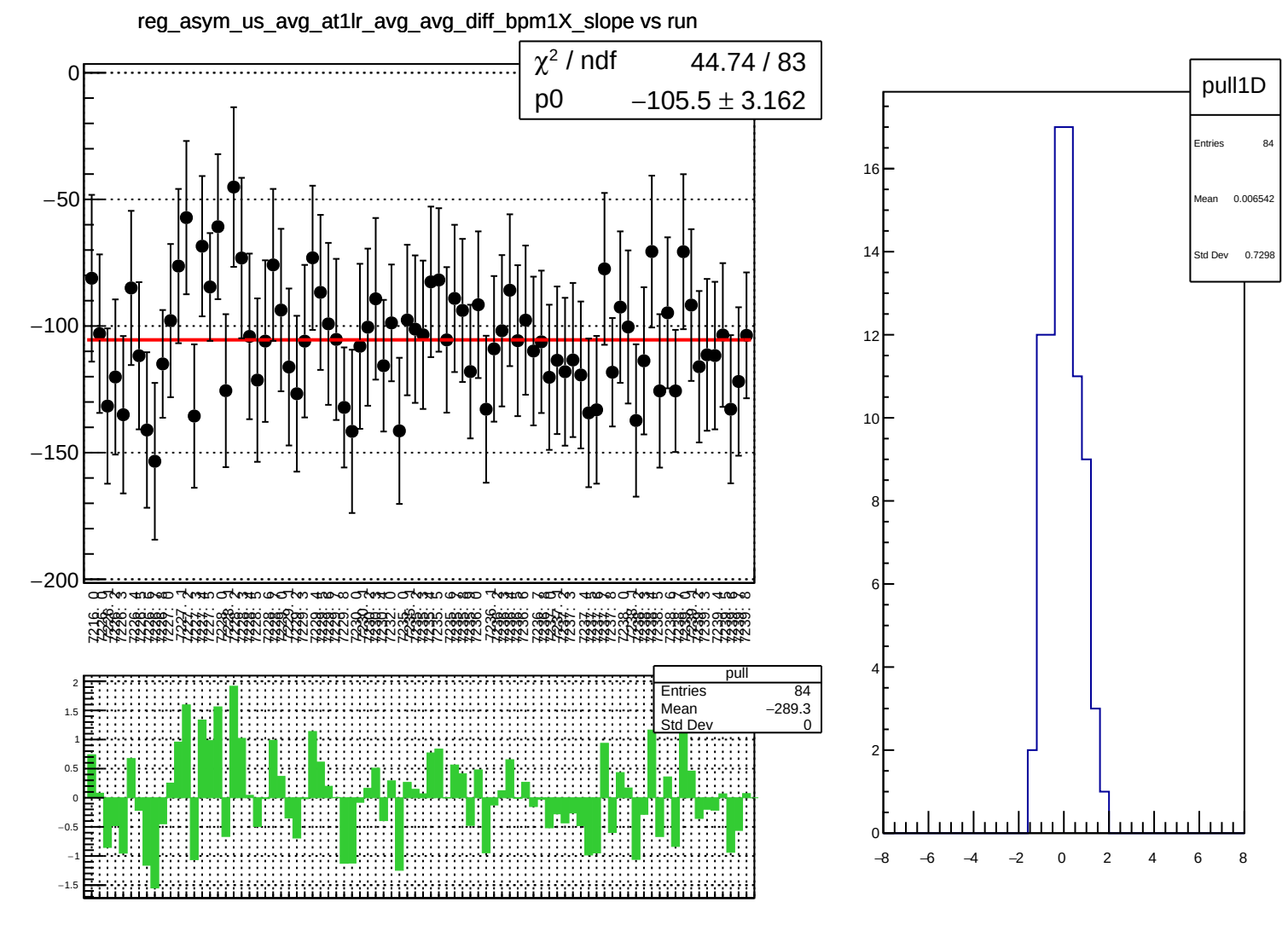

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.46 / 83
p0 −223.8 ± 4.536
pull
Entries 84
Mean 473.9
Std Dev 0

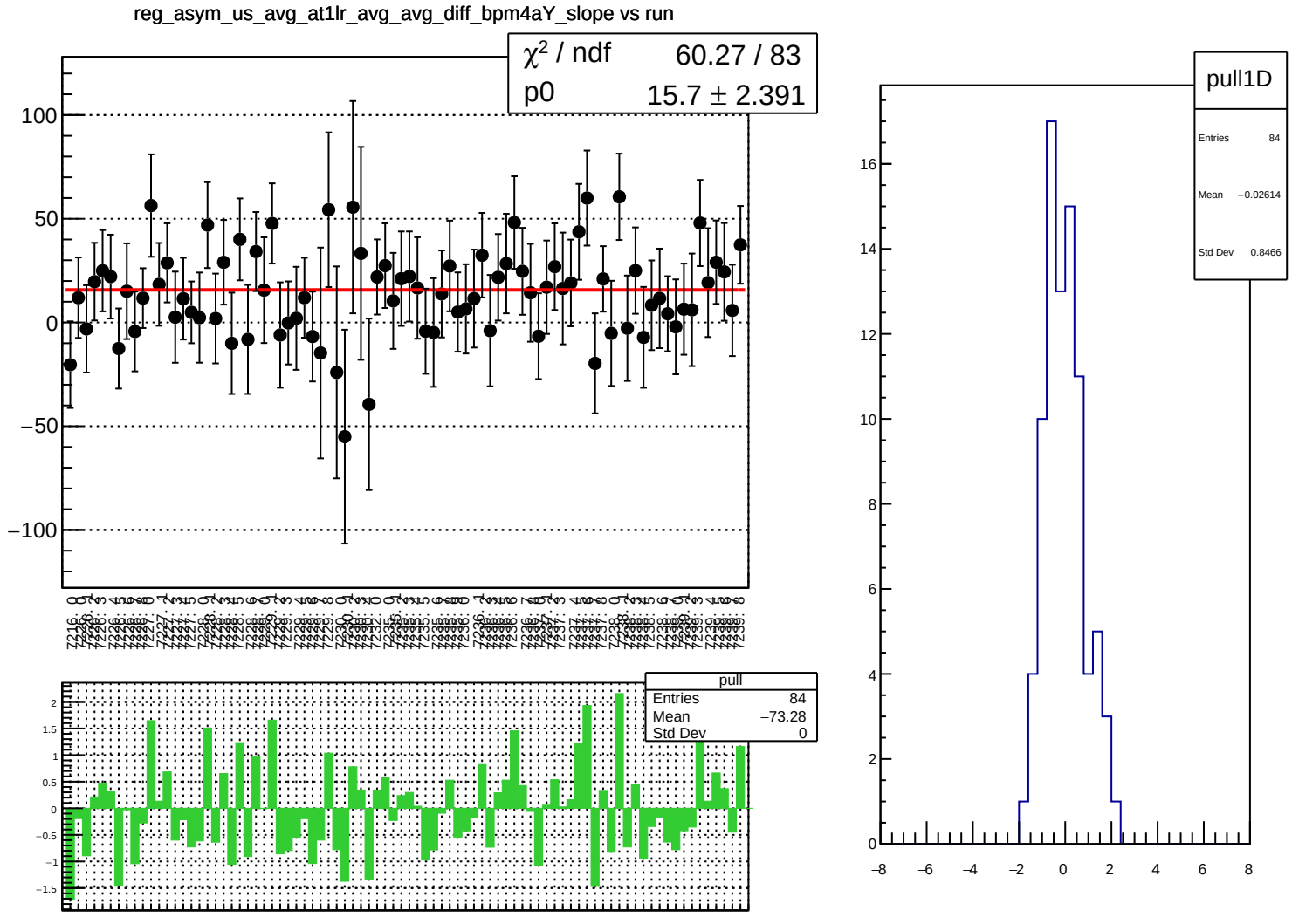

pull1D
Entries 84
Mean −0.01453
Std Dev 0.481

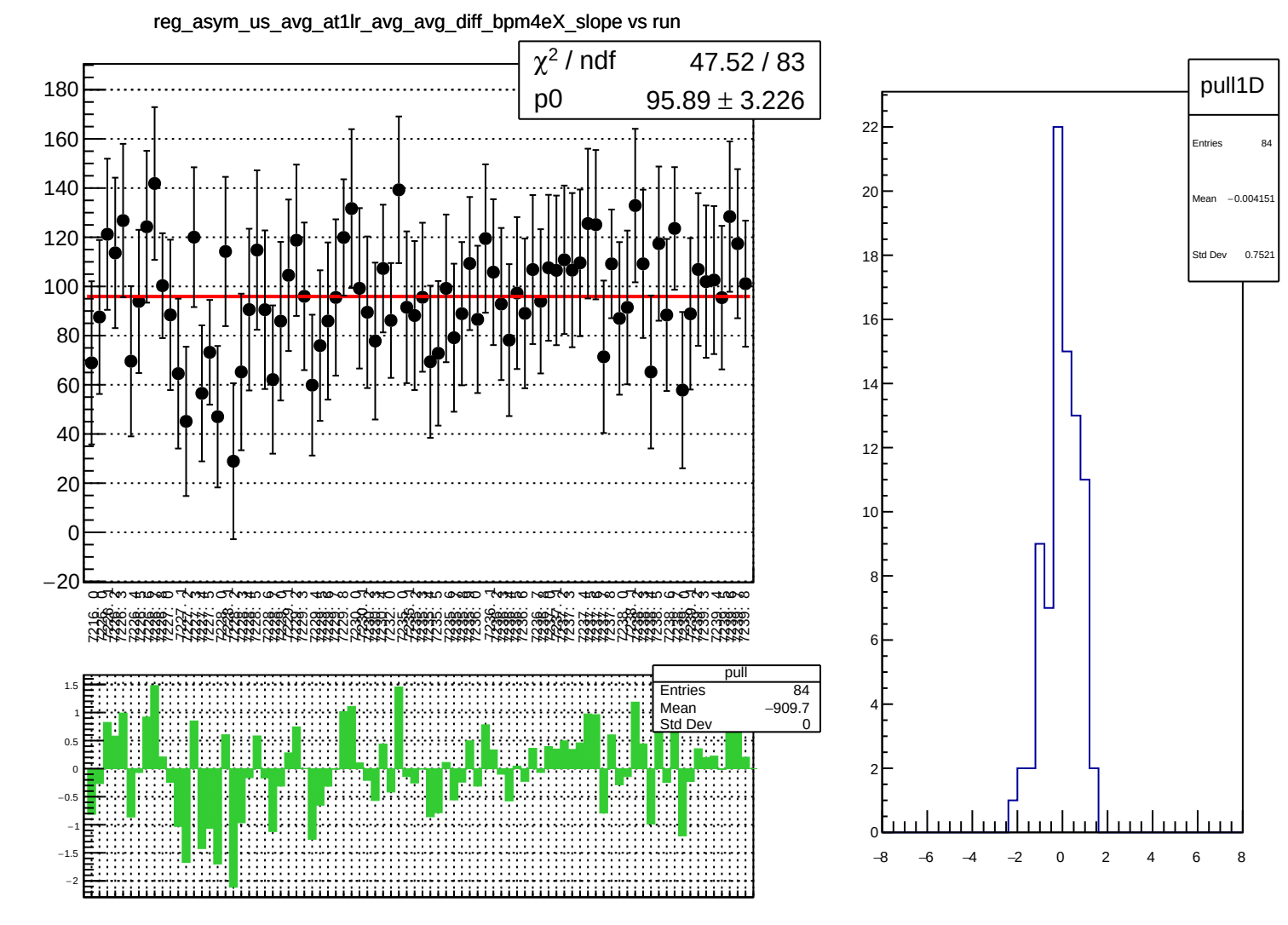

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.05 / 83
p0 −47.72 ± 3.668
50
0
−50
−100
−150
pull
Entries 84
Mean 521.7
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

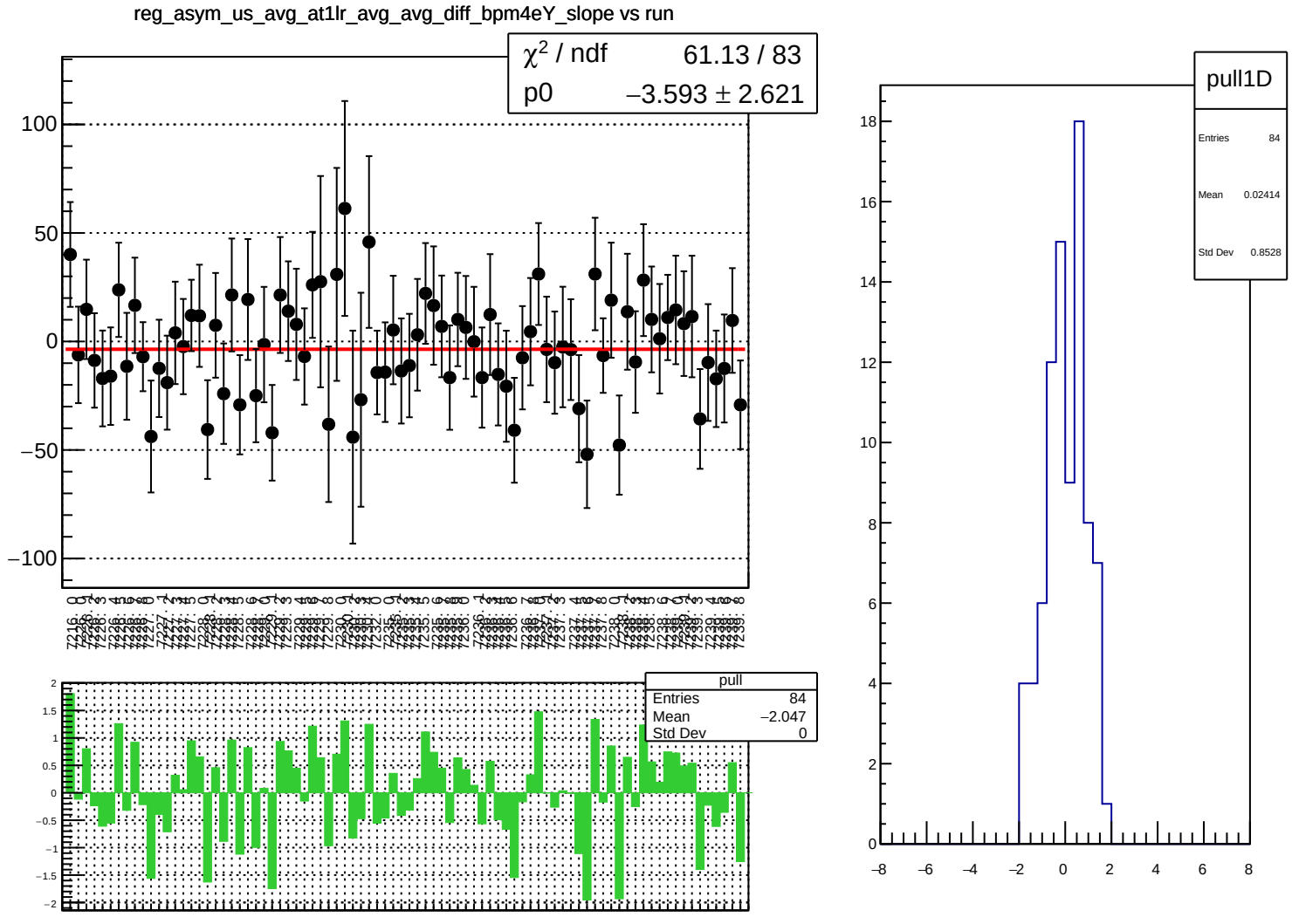

pull1D
Entries 84
Mean 0.01395
Std Dev 0.4088
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

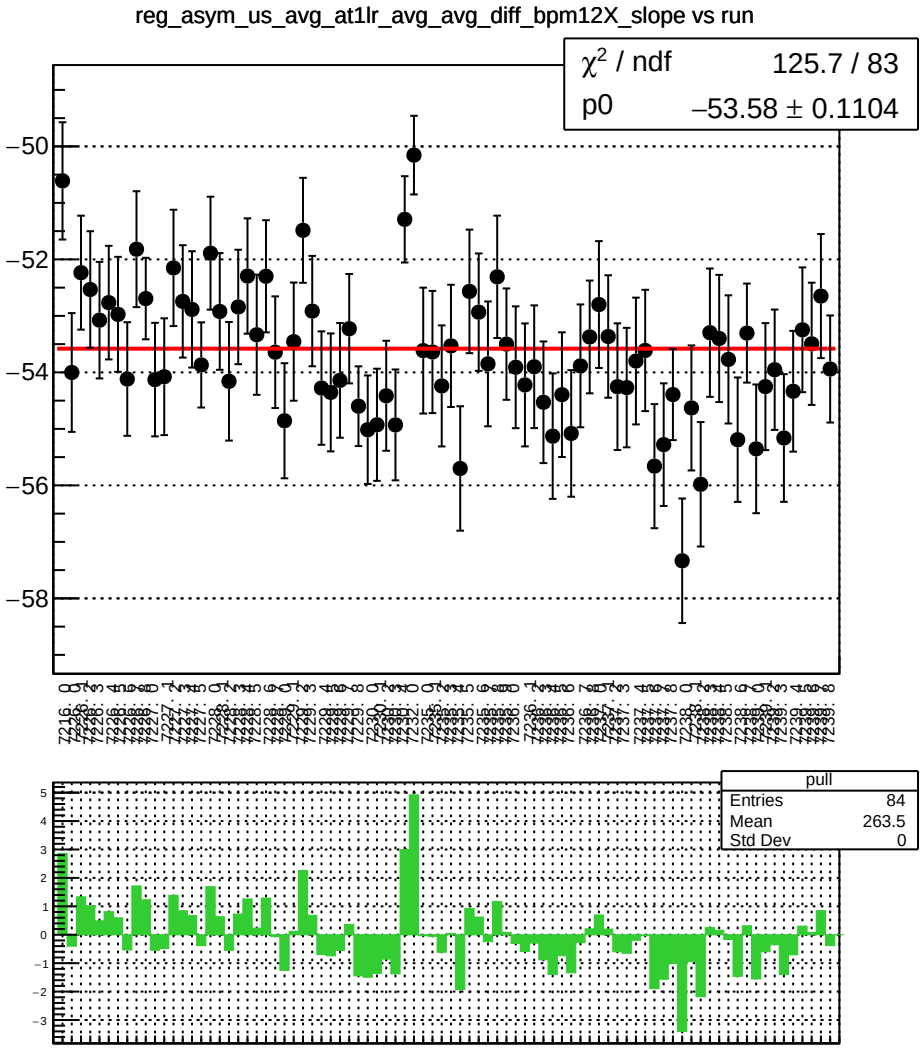

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 44.39 / 83
p0 105.8 ± 0.1555
pull
Entries 84
Mean 351.6
Std Dev 0
pull1D
Entries 84
Mean 0.03998
Std Dev 0.7259

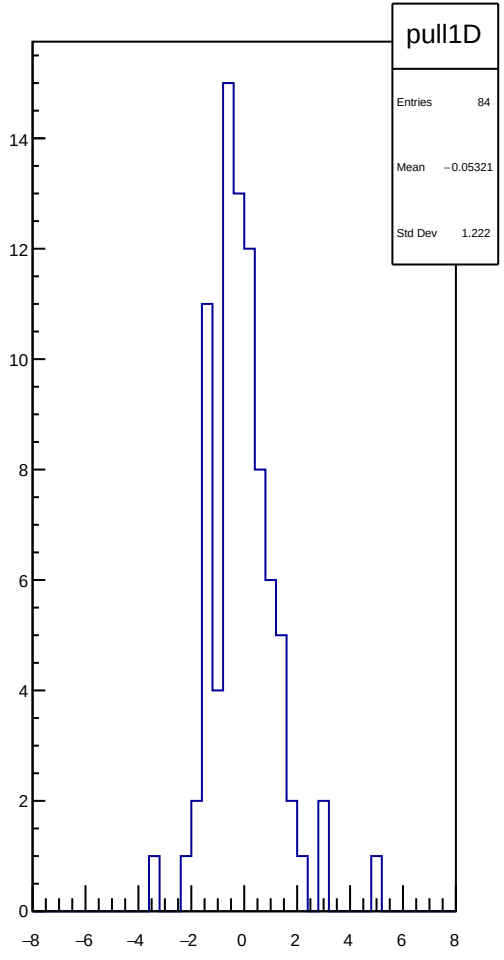

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 44.74 / 83
p0 −105.5 ± 3.162
pull
Entries 84
Mean −289.3
Std Dev 0
pull1D
Entries 84
Mean 0.006542
Std Dev 0.7298

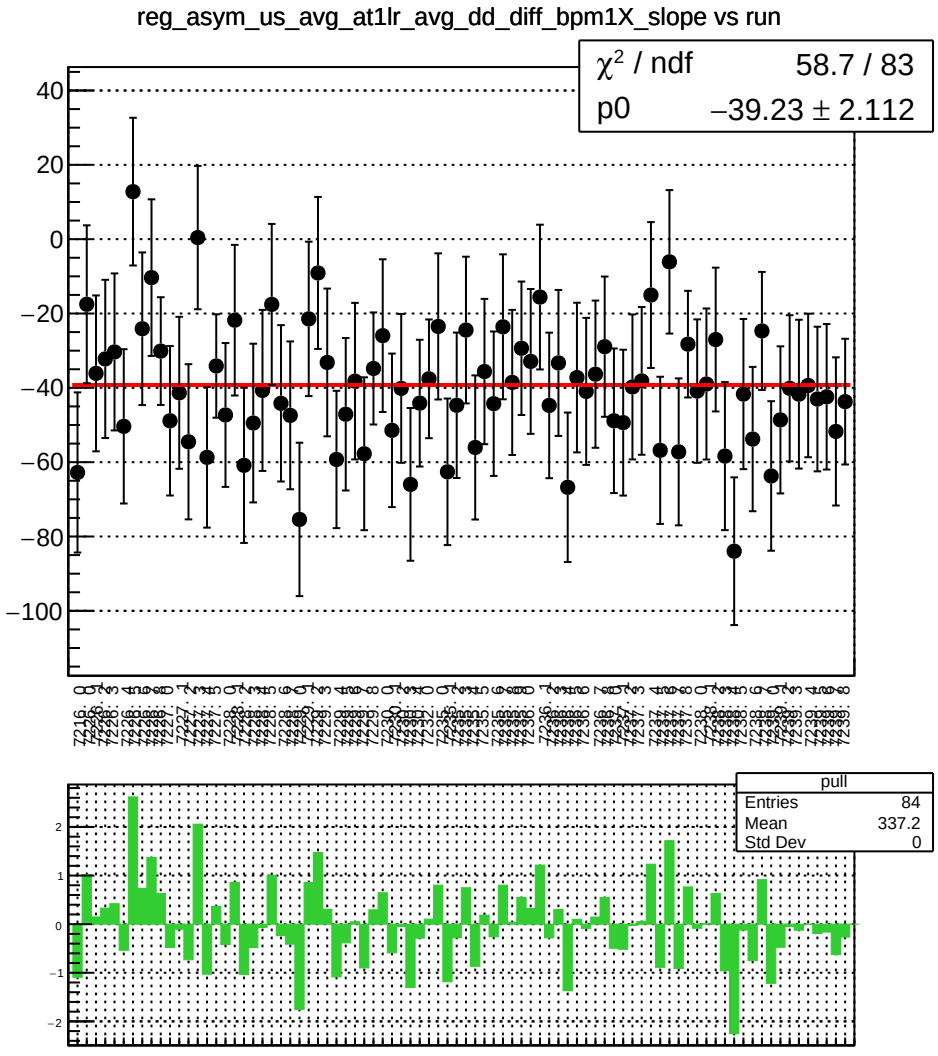

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 60.27 / 83
p0 15.7 ± 2.391
pull
Entries 84
Mean −73.28
Std Dev 0
pull1D
Entries 84
Mean −0.02614
Std Dev 0.8466

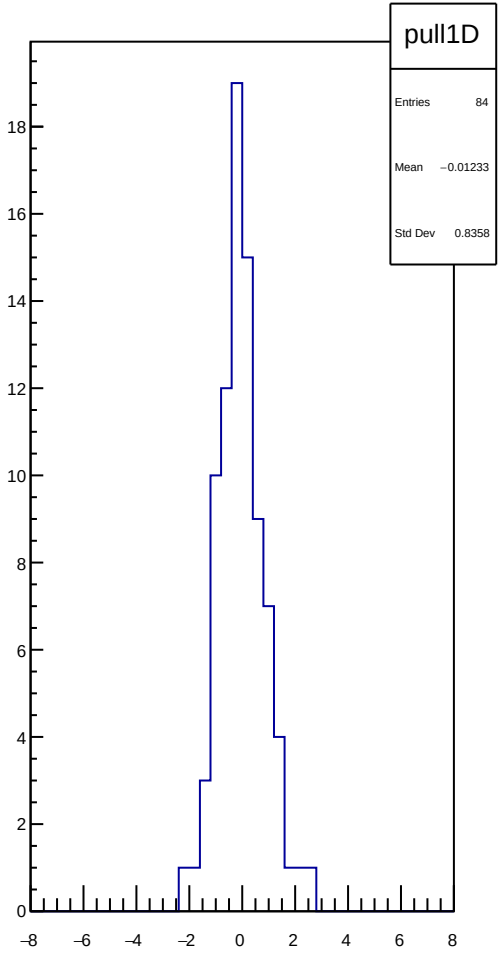

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 47.52 / 83
p0 95.89 ± 3.226
pull
Entries 84
Mean −909.7
Std Dev 0
pull1D
Entries 84
Mean −0.004151
Std Dev 0.7521

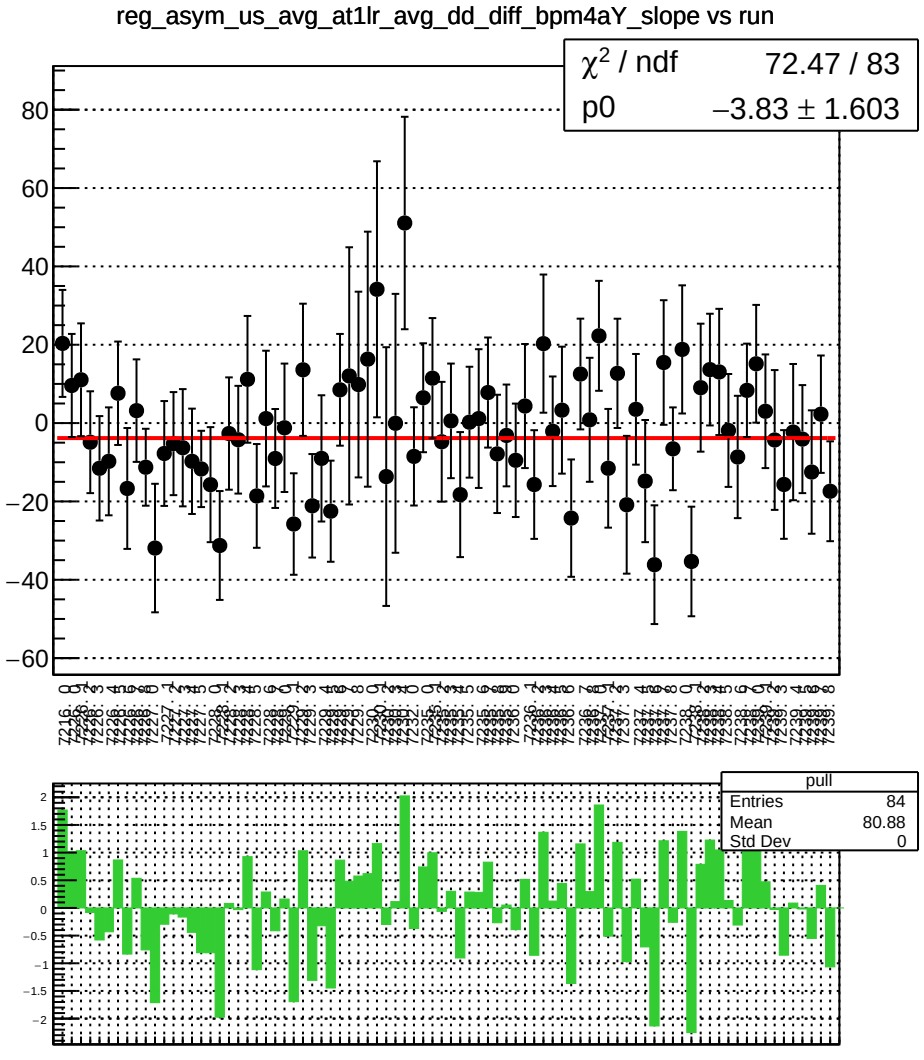

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 61.13 / 83
p0 −3.593 ± 2.621
pull
Entries 84
Mean −2.047
Std Dev 0
pull1D
Entries 84
Mean 0.02414
Std Dev 0.8528

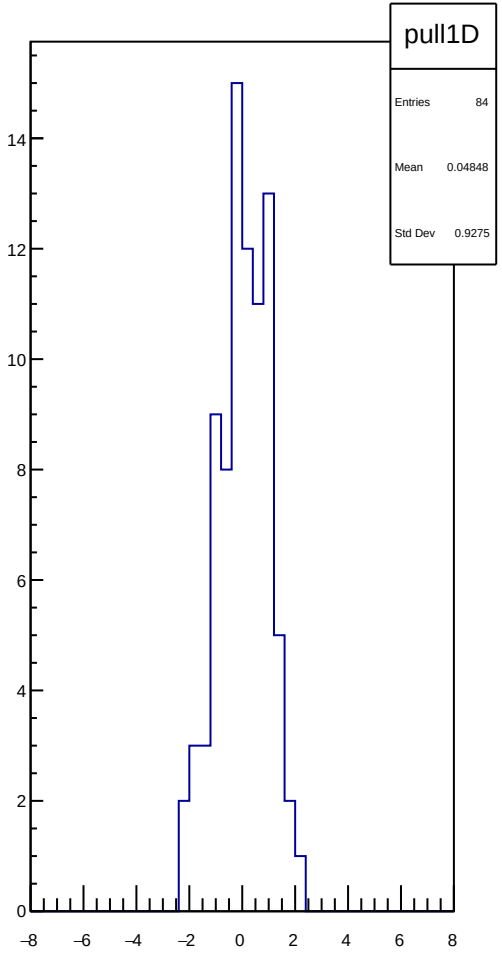

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 125.7 / 83
p0 −53.58 ± 0.1104
−50
−52
−54
−56
−58
pull
Entries 84
Mean 263.5
Std Dev 0
5
4
3
2
1
0
−1
−2
−3

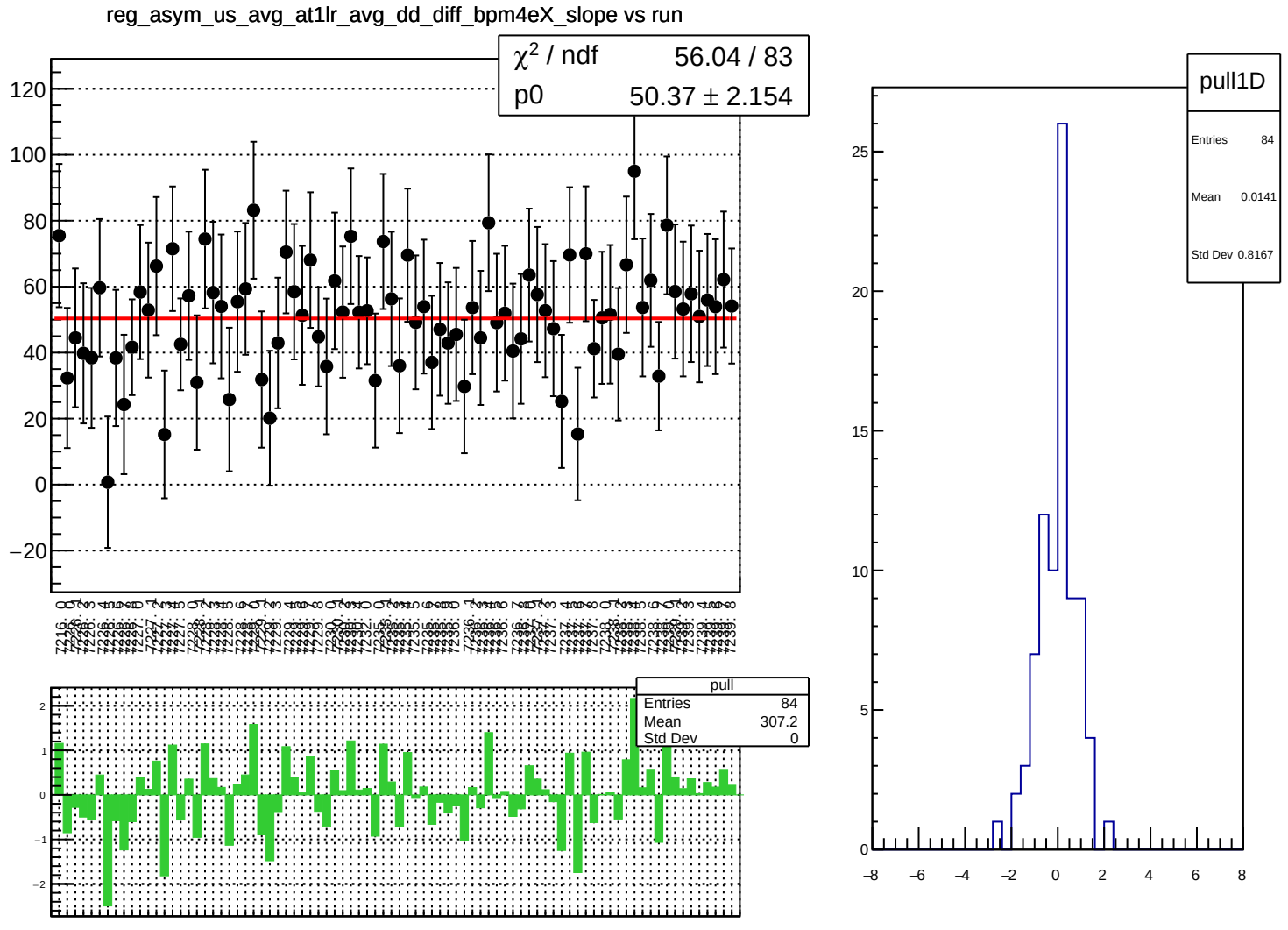

pull1D
Entries 84
Mean −0.05321
Std Dev 1.222
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

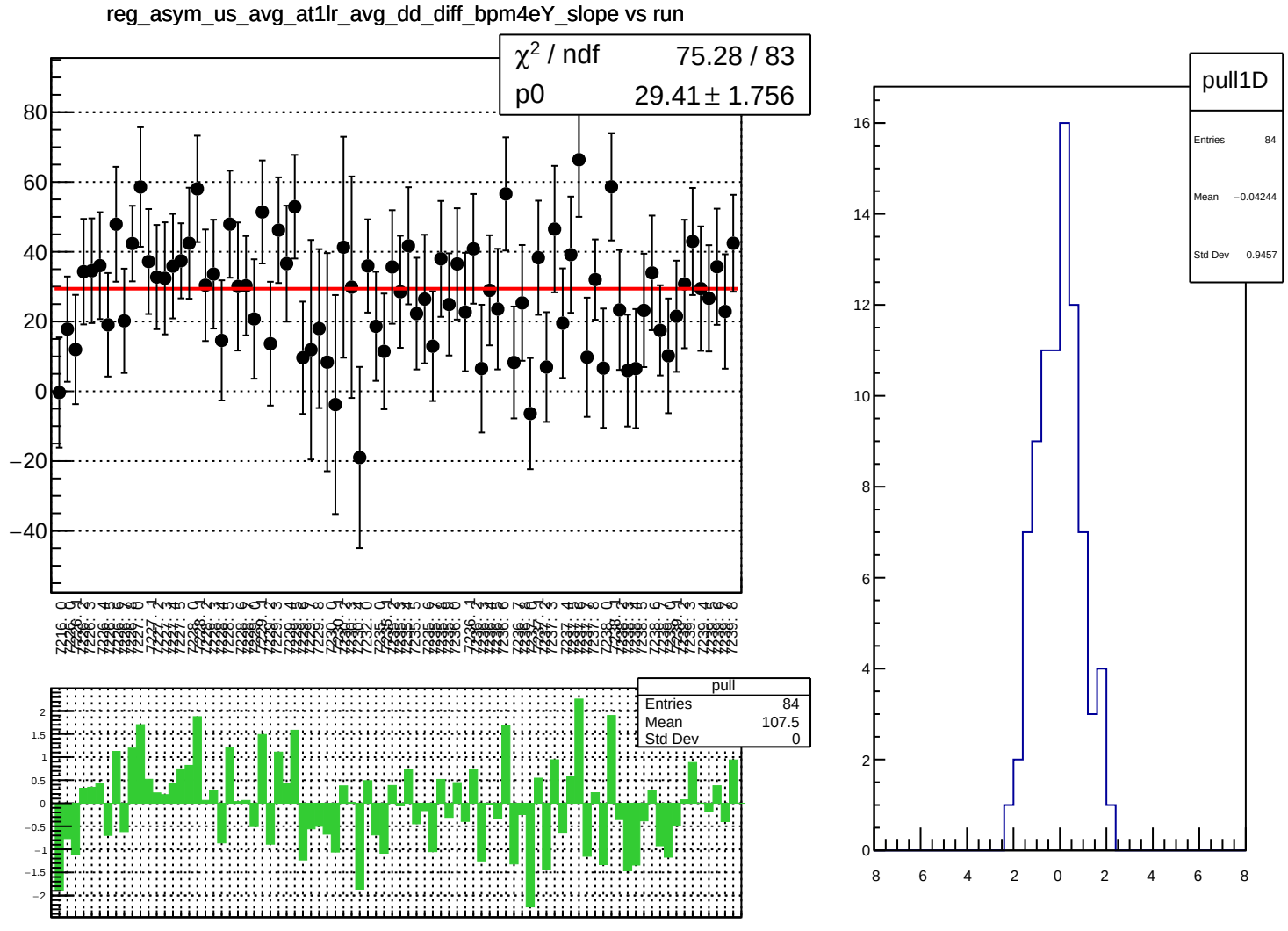

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 58.7 / 83
p0 −39.23 ± 2.112
pull
Entries 84
Mean 337.2
Std Dev 0

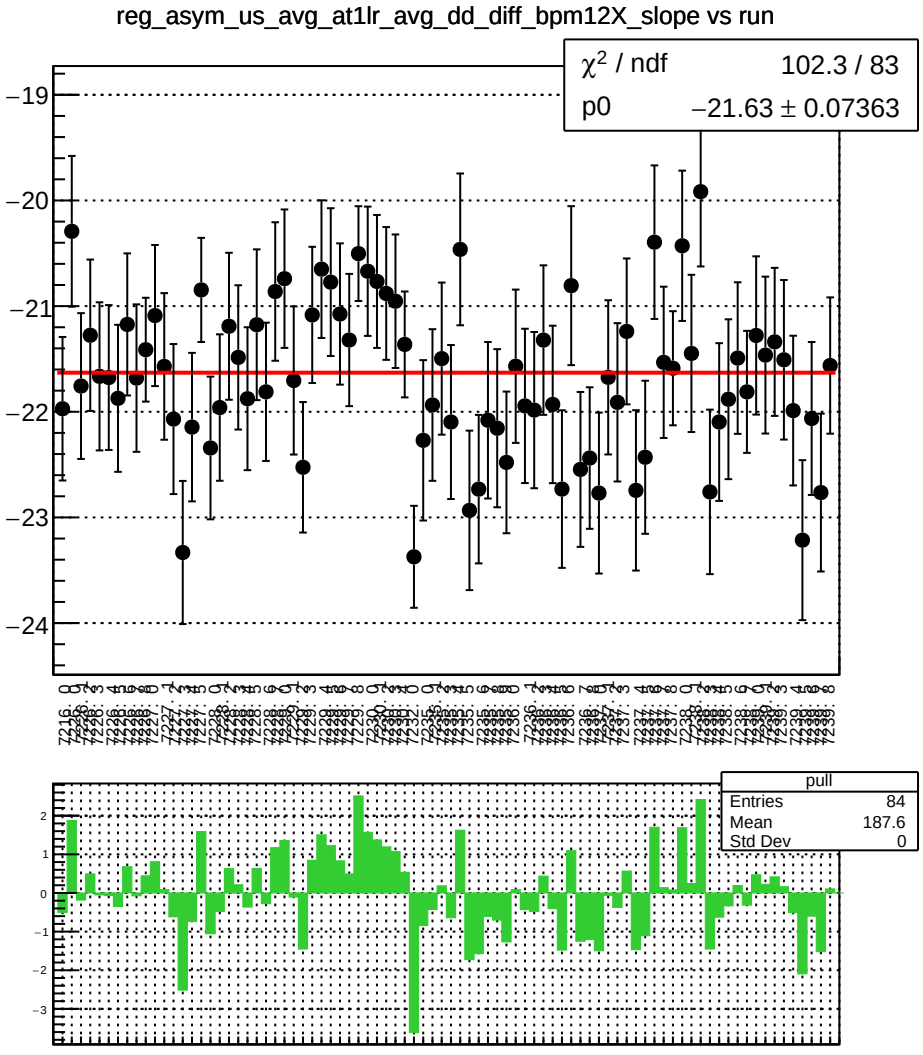

pull1D
Entries 84
Mean −0.01233
Std Dev 0.8358

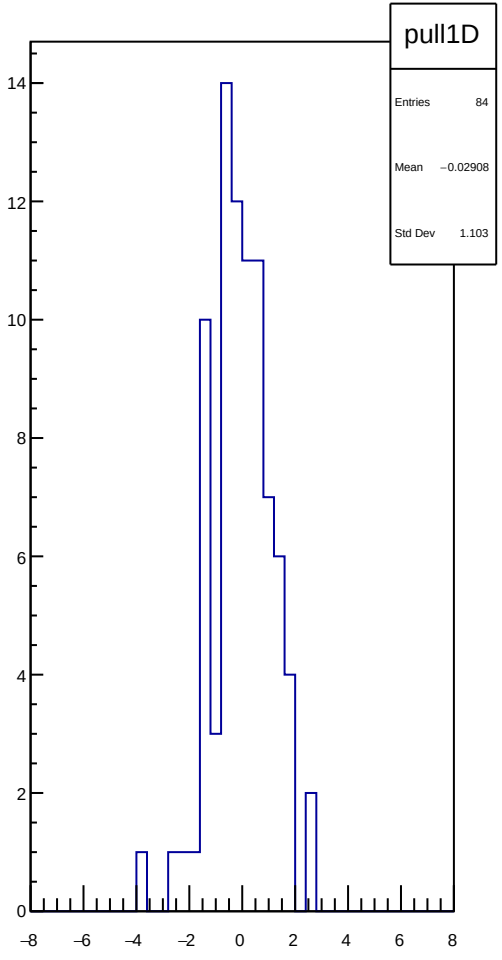

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 72.47 / 83
p0 −3.83 ± 1.603
pull
Entries 84
Mean 80.88
Std Dev 0

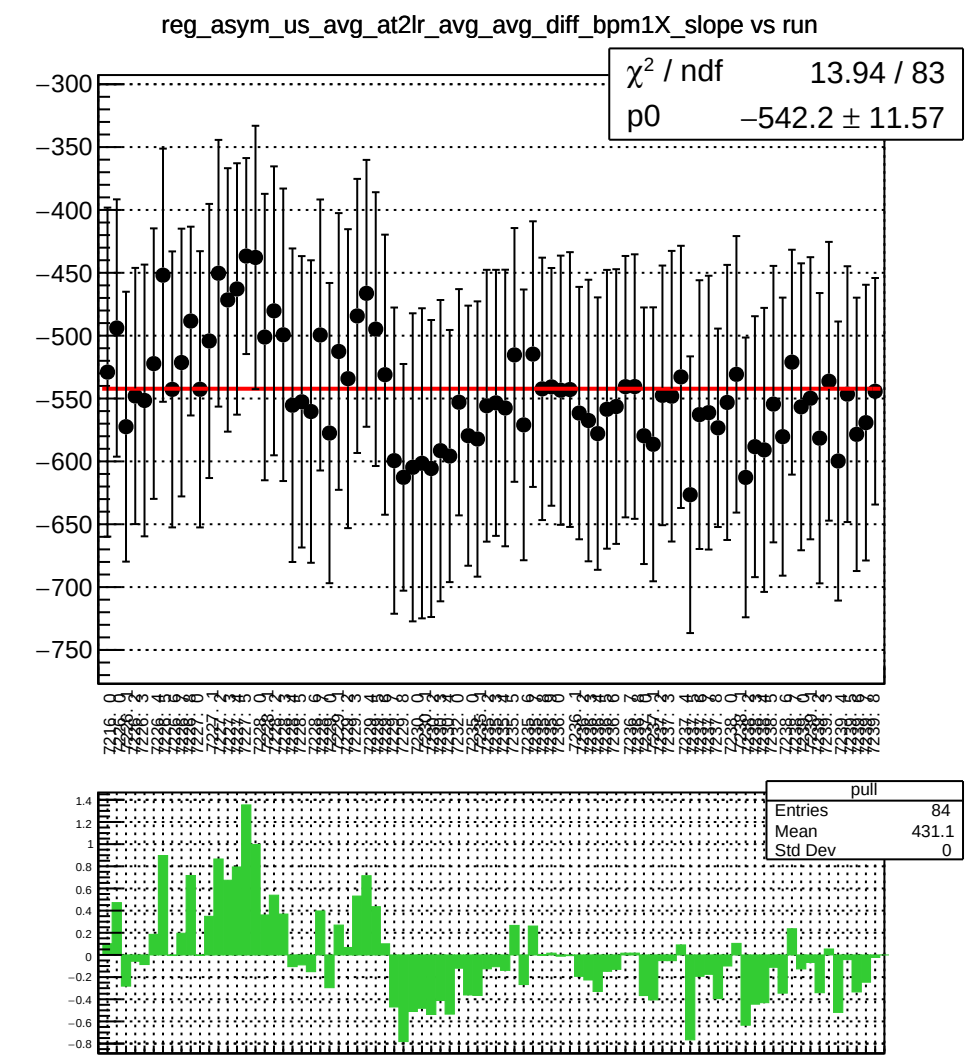

pull1D
Entries 84
Mean 0.04848
Std Dev 0.9275

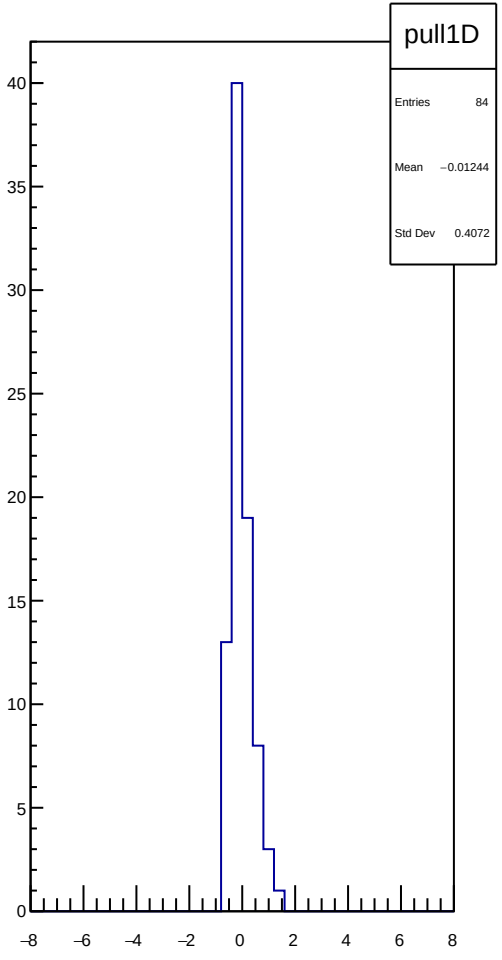

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 56.04 / 83
p0 50.37 ± 2.154
pull
Entries 84
Mean 307.2
Std Dev 0
pull1D
Entries 84
Mean 0.0141
Std Dev 0.8167

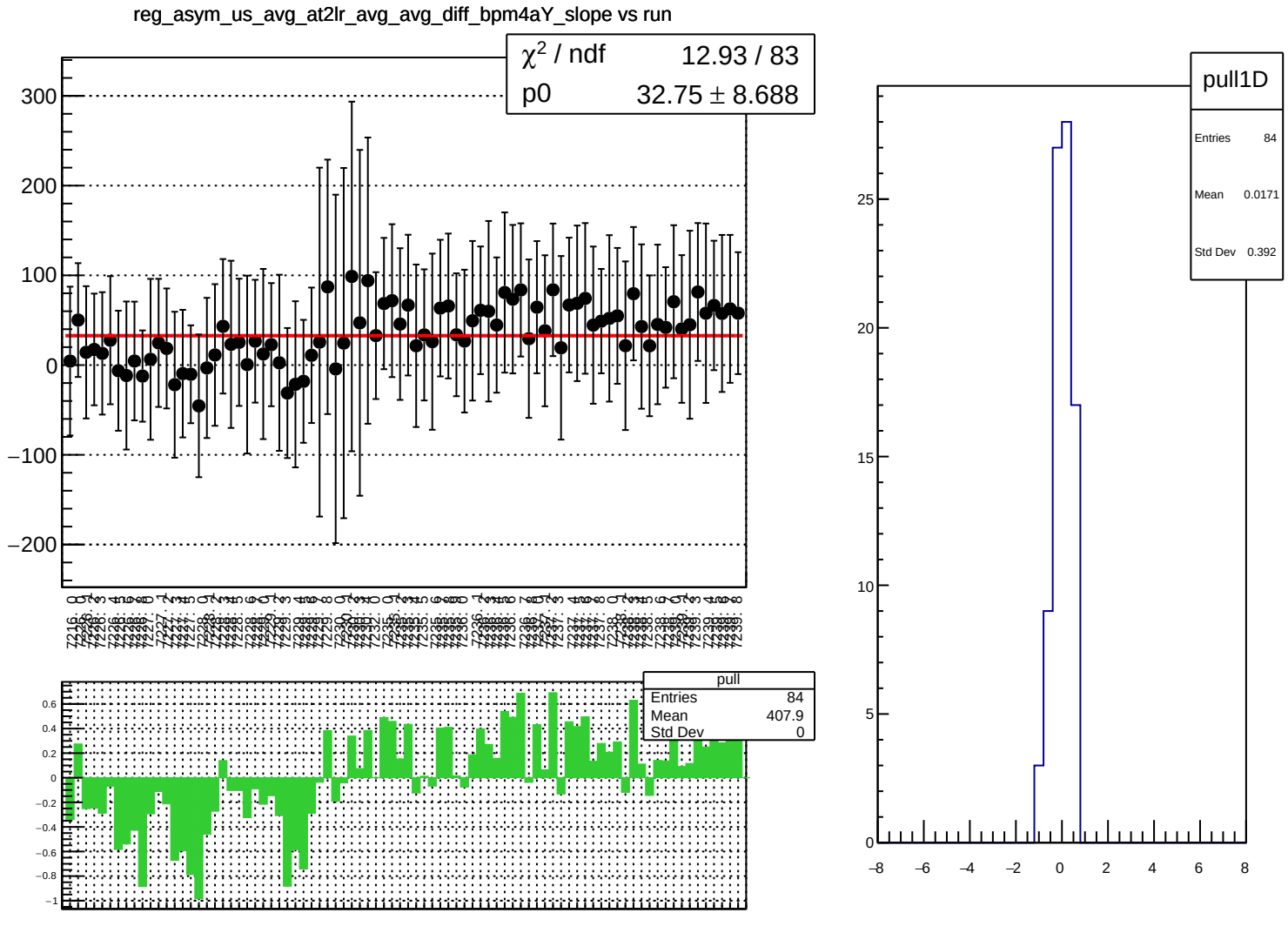

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 75.28 / 83
p0 29.41 ± 1.756
pull
Entries 84
Mean 107.5
Std Dev 0
pull1D
Entries 84
Mean −0.04244
Std Dev 0.9457

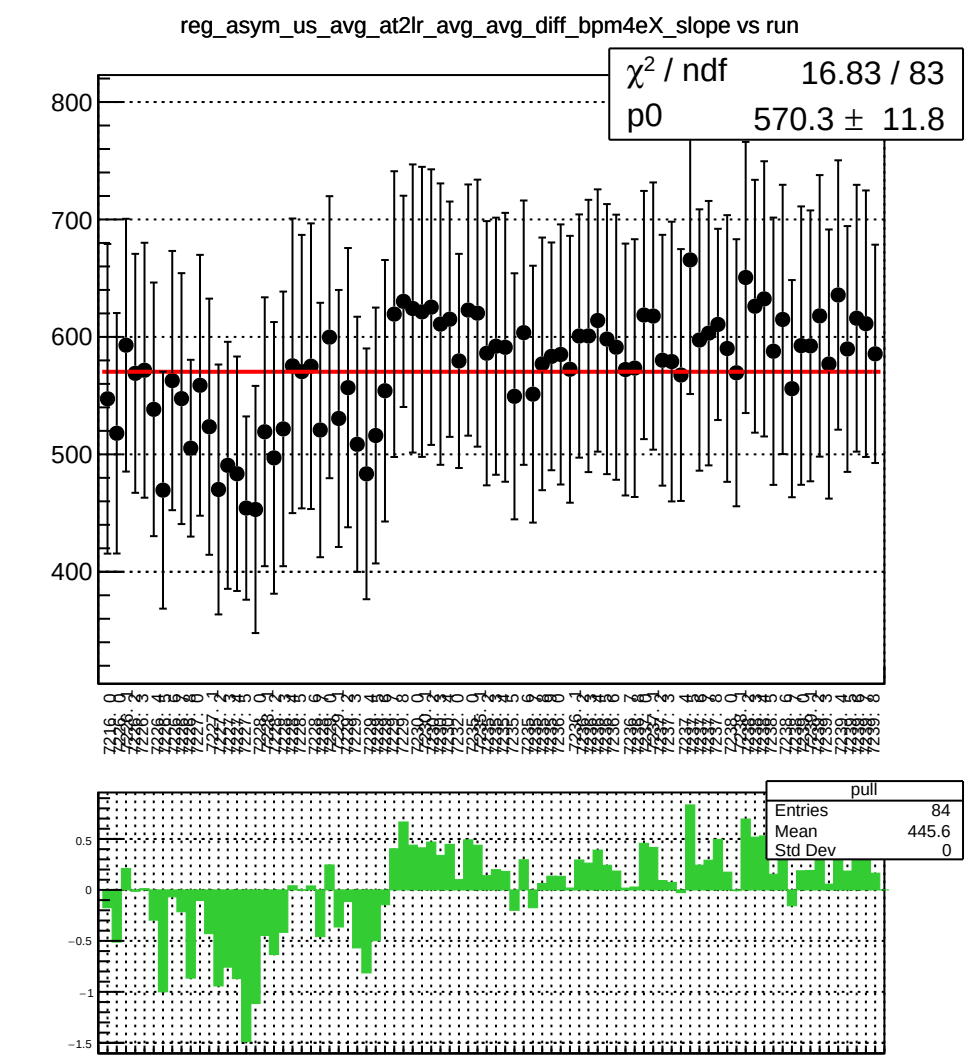

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 102.3 / 83
p0 −21.63 ± 0.07363
pull
Entries 84
Mean 187.6
Std Dev 0

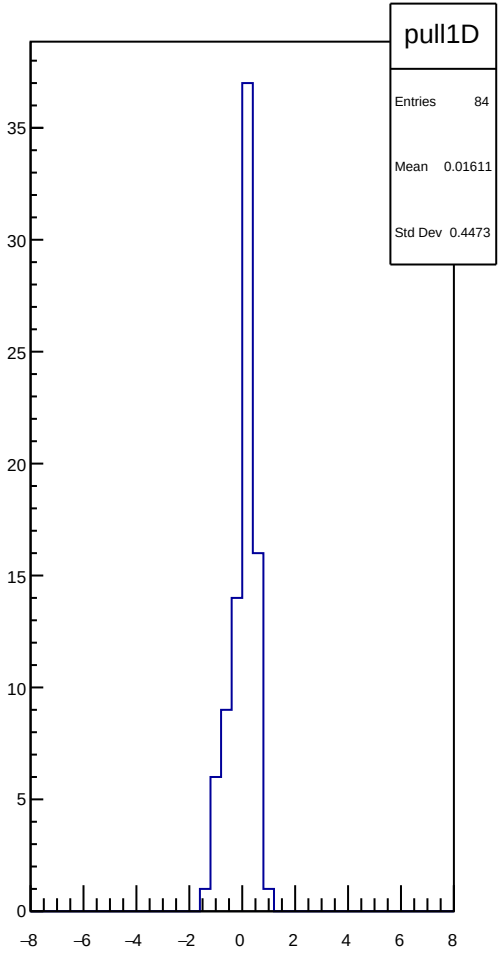

pull1D
Entries 84
Mean −0.02908
Std Dev 1.103

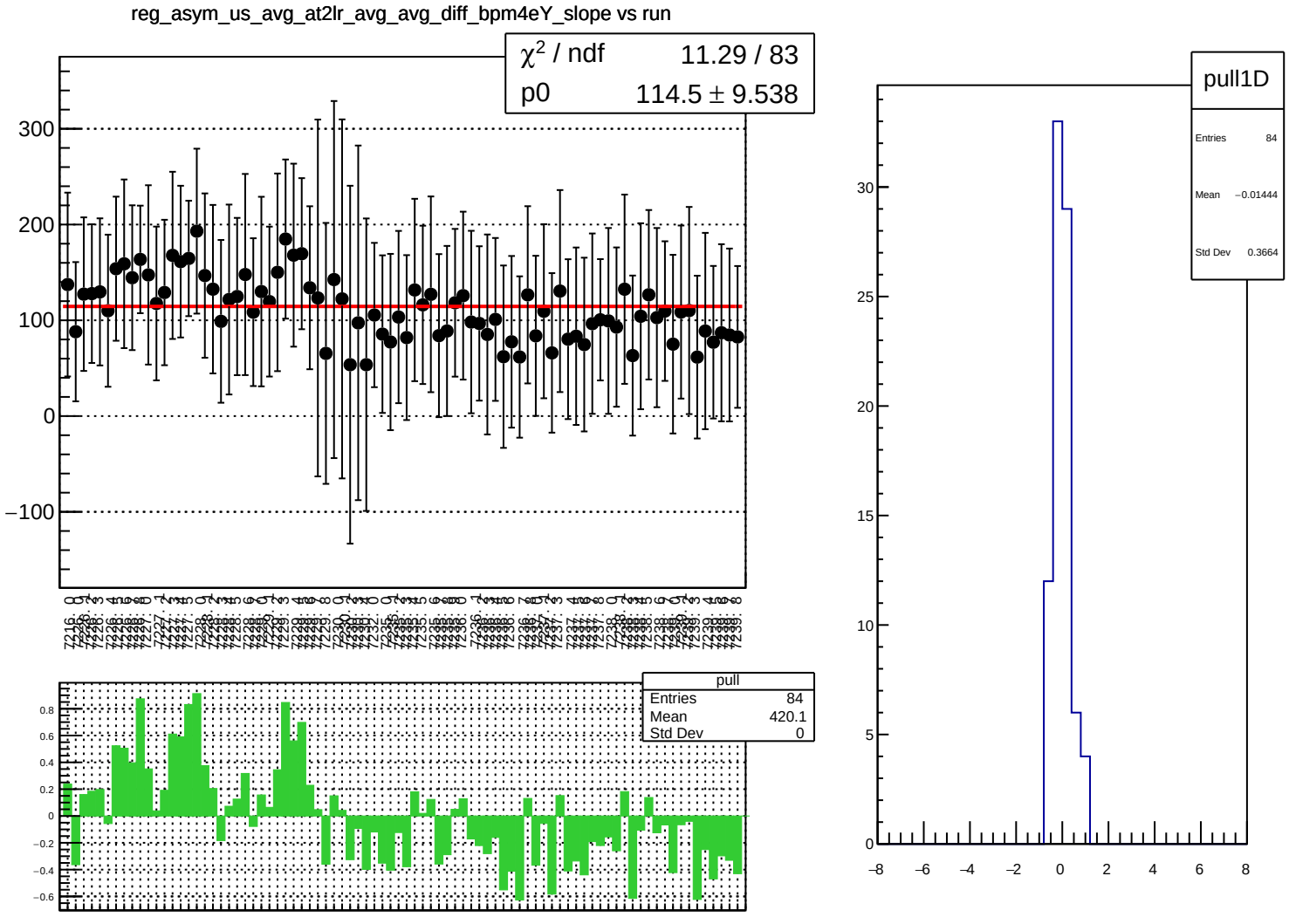

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 13.94 / 83
p0 −542.2 ± 11.57
pull
Entries 84
Mean 431.1
Std Dev 0

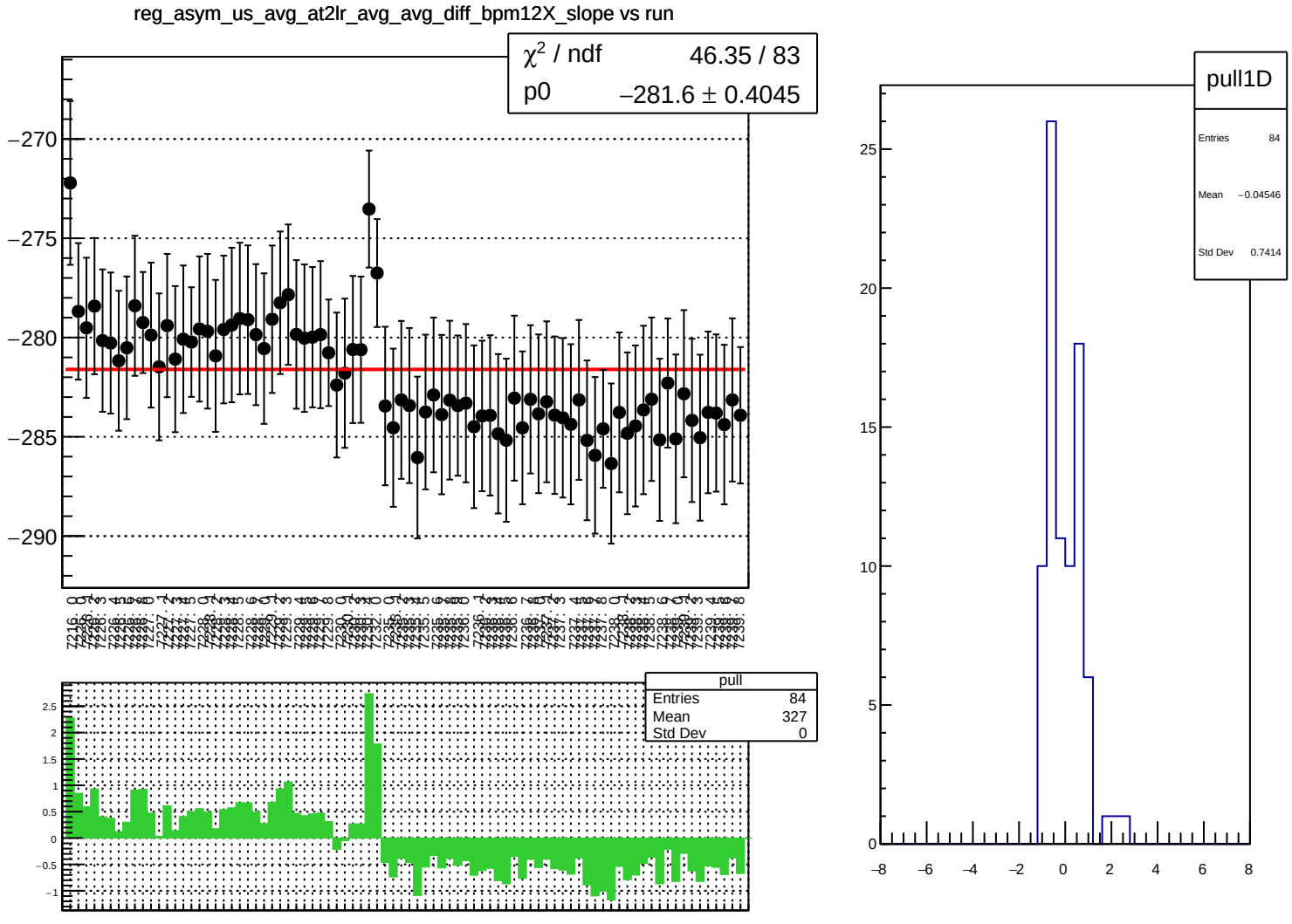

pull1D
Entries 84
Mean −0.01244
Std Dev 0.4072

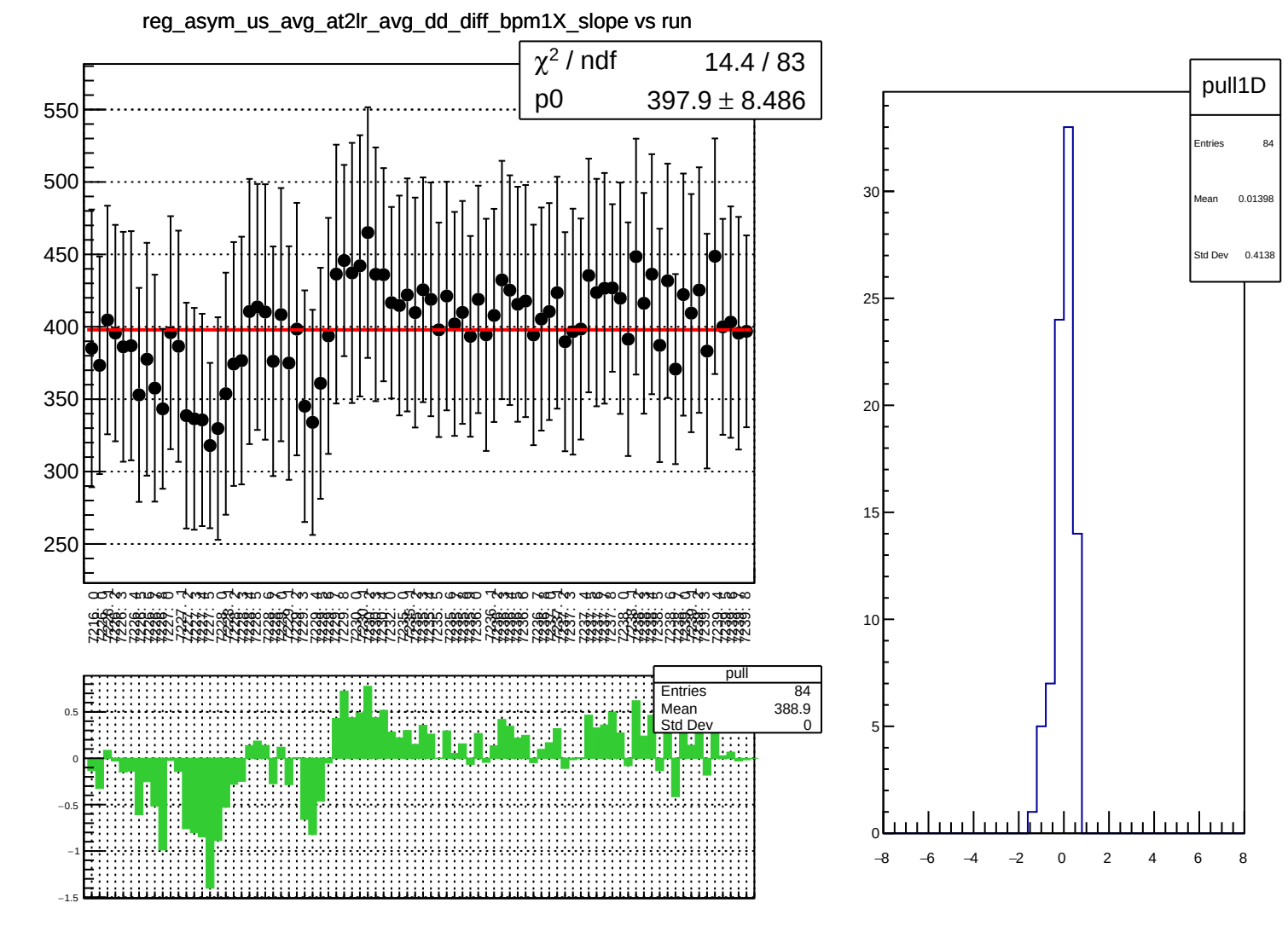

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.93 / 83
p0 32.75 ± 8.688
300
200
100
0
−100
−200
pull
Entries 84
Mean 407.9
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 84
Mean 0.0171
Std Dev 0.392
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

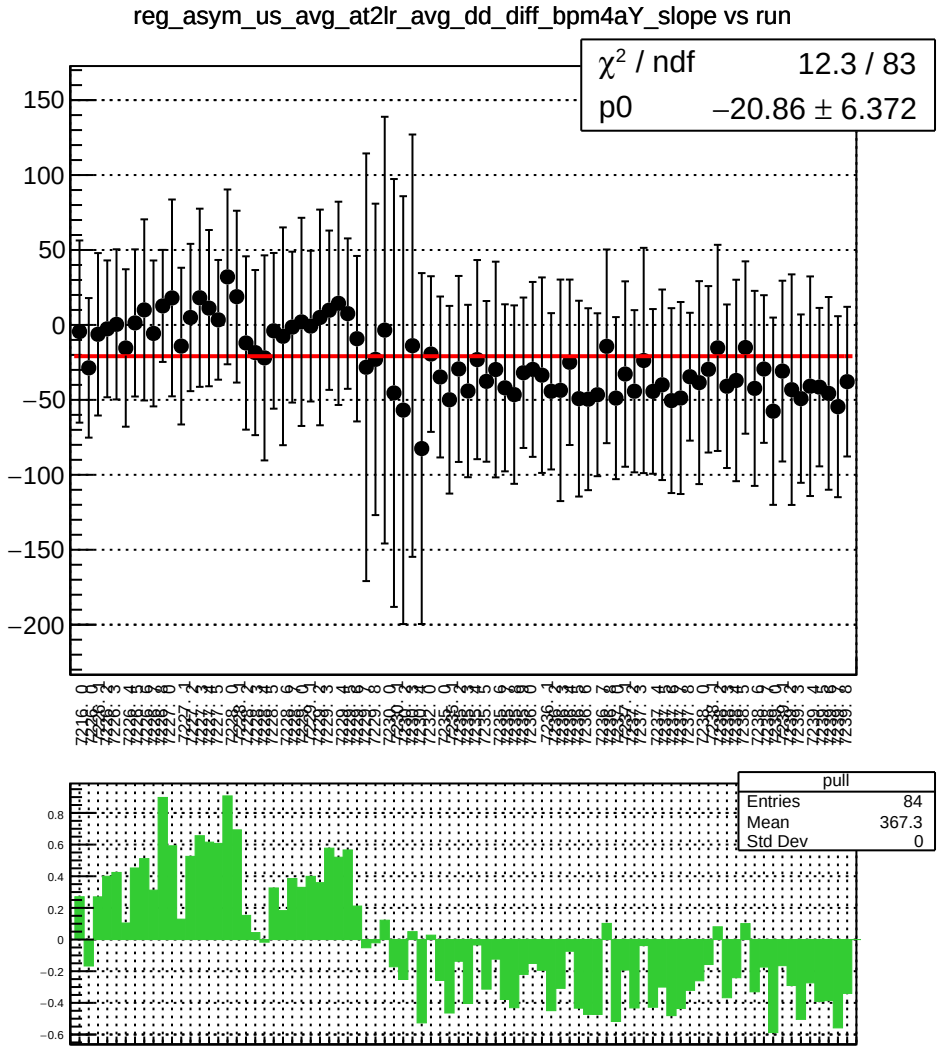

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 16.83 / 83
p0 570.3 ± 11.8
800
700
600
500
400
pull
Entries 84
Mean 445.6
Std Dev 0
0.5
0
−0.5
−1
−1.5

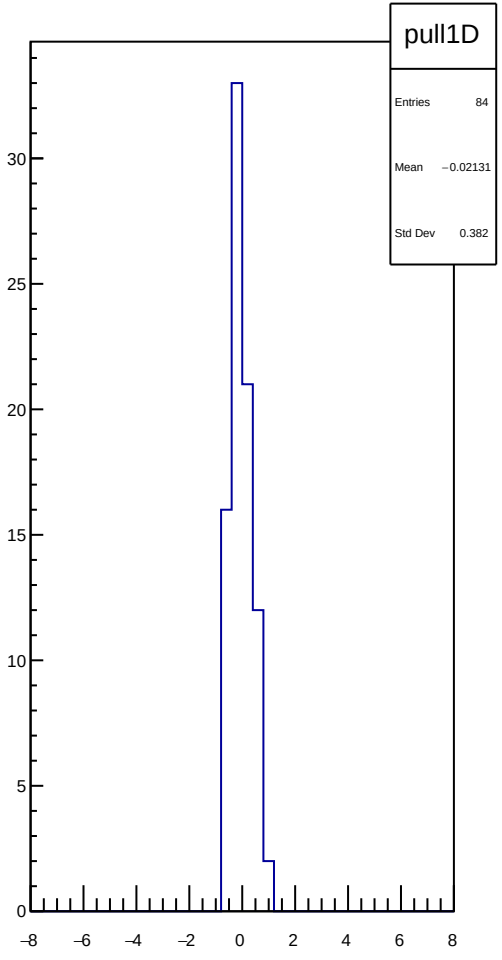

pull1D
Entries 84
Mean 0.01611
Std Dev 0.4473
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

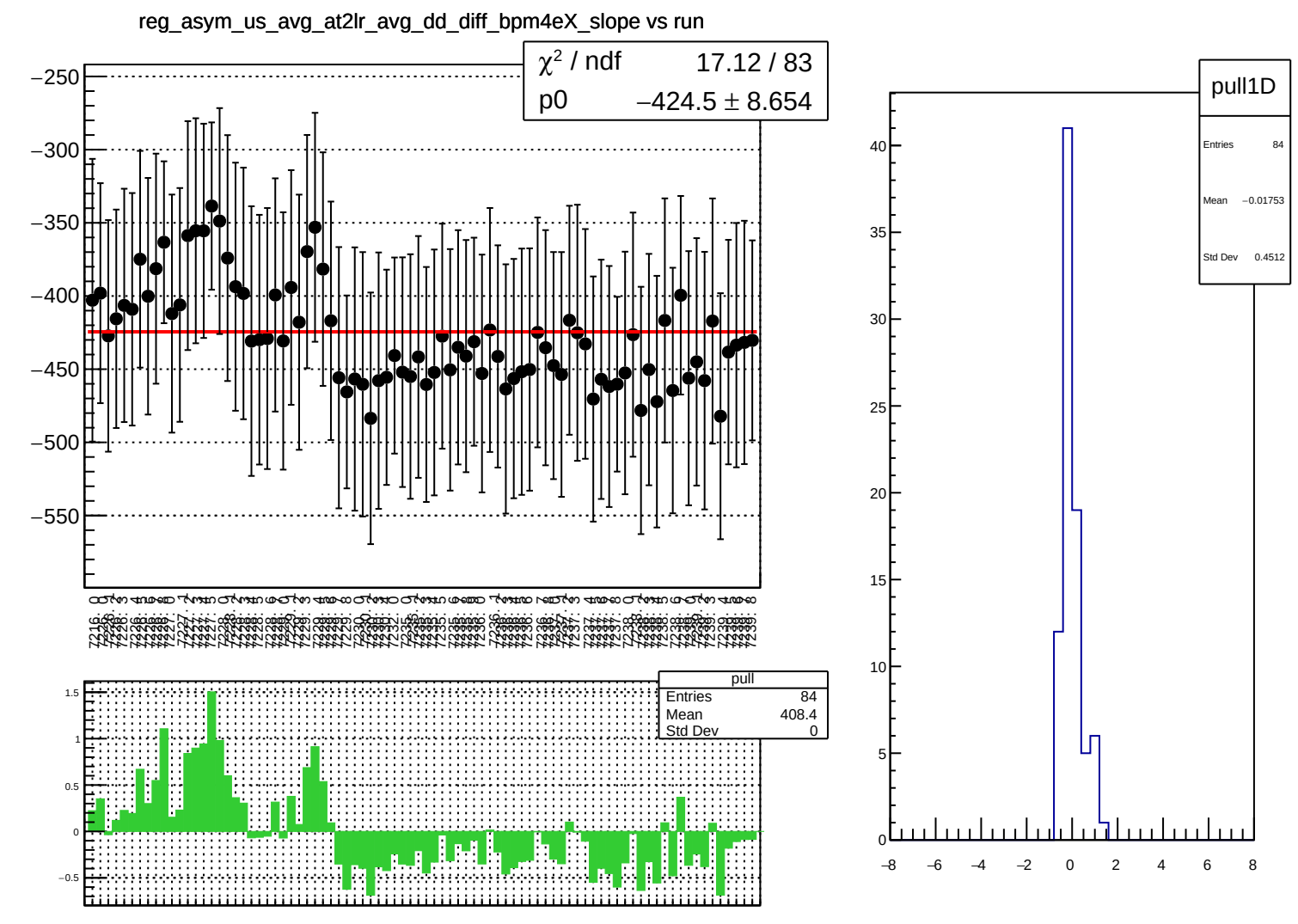

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.29 / 83
p0 114.5 ± 9.538
300
200
100
0
−100
pull
Entries 84
Mean 420.1
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 84
Mean −0.01444
Std Dev 0.3664
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

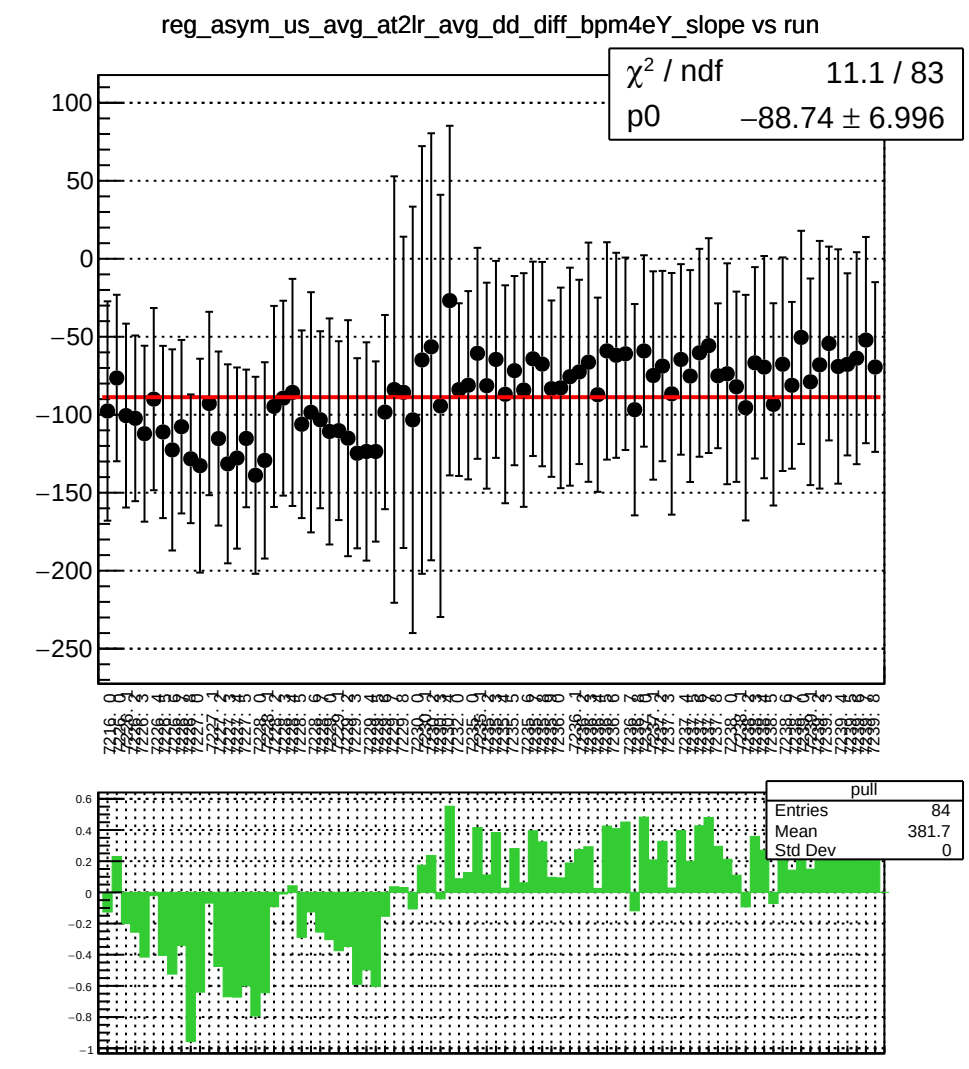

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 46.35 / 83
p0 −281.6 ± 0.4045
−270
−275
−280
−285
−290
pull
Entries 84
Mean 327
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 84
Mean −0.04546
Std Dev 0.7414
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

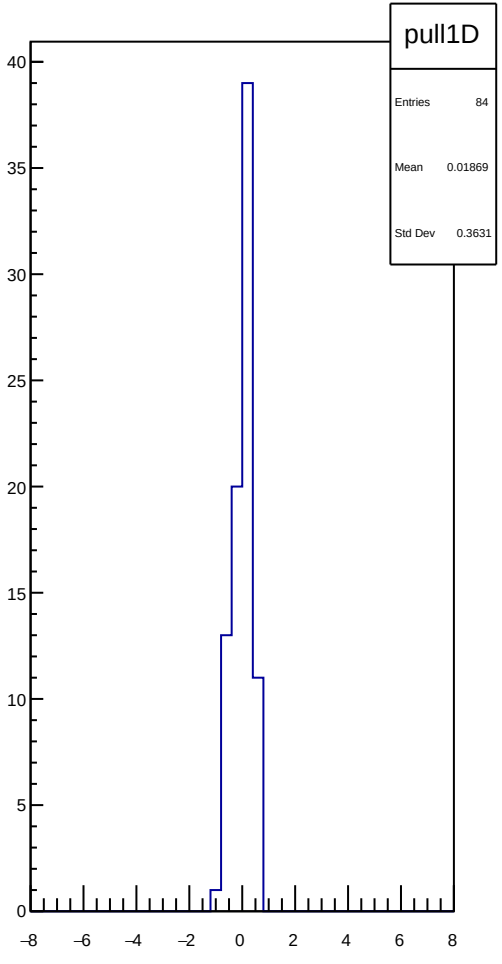

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 14.4 / 83
p0 397.9 ± 8.486
550
500
450
400
350
300
250
pull
Entries 84
Mean 388.9
Std Dev 0
0.5
0
−0.5
−1
−1.5
pull1D
Entries 84
Mean 0.01398
Std Dev 0.4138
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

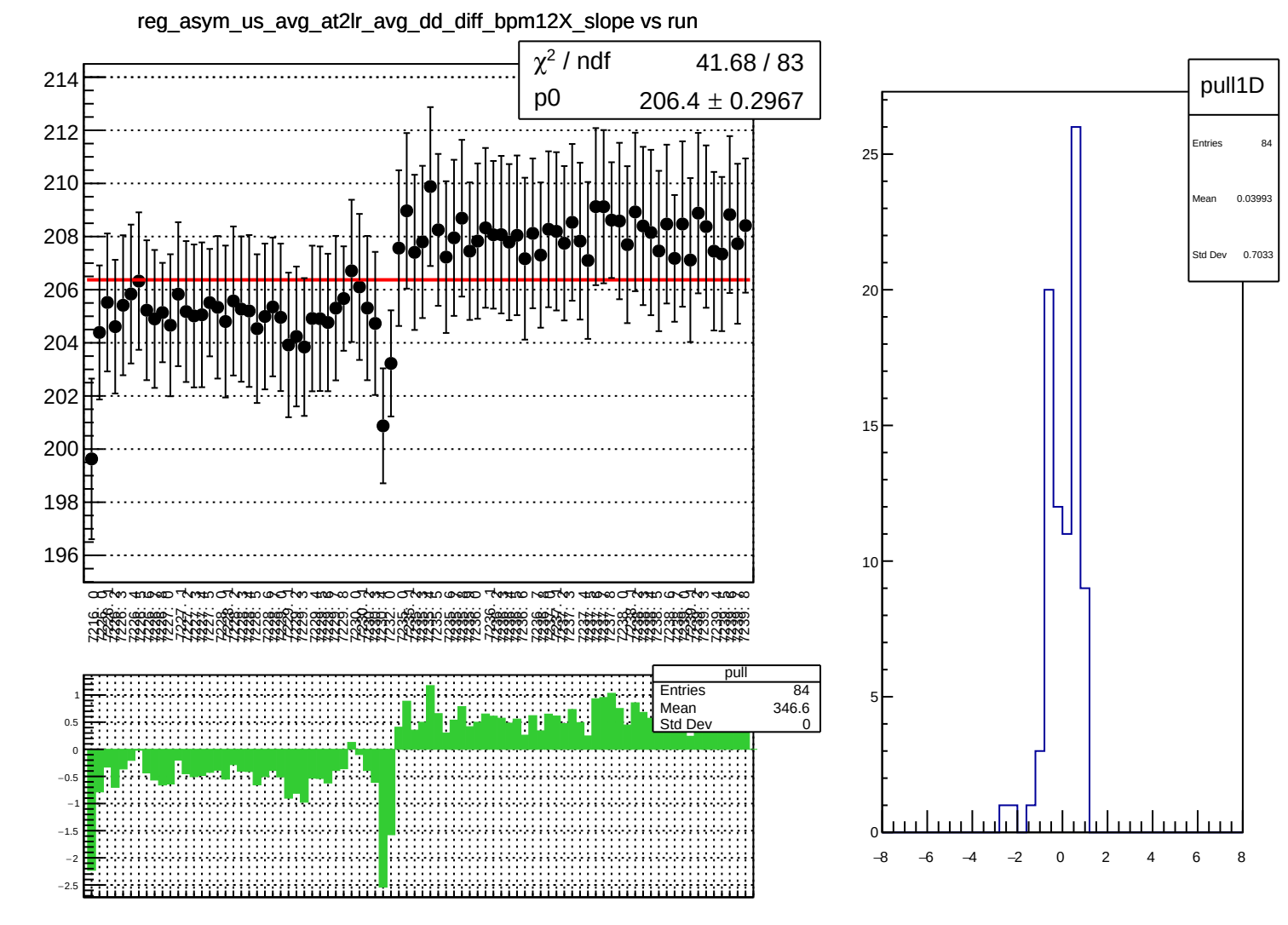

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.3 / 83
p0 −20.86 ± 6.372
pull
Entries 84
Mean 367.3
Std Dev 0

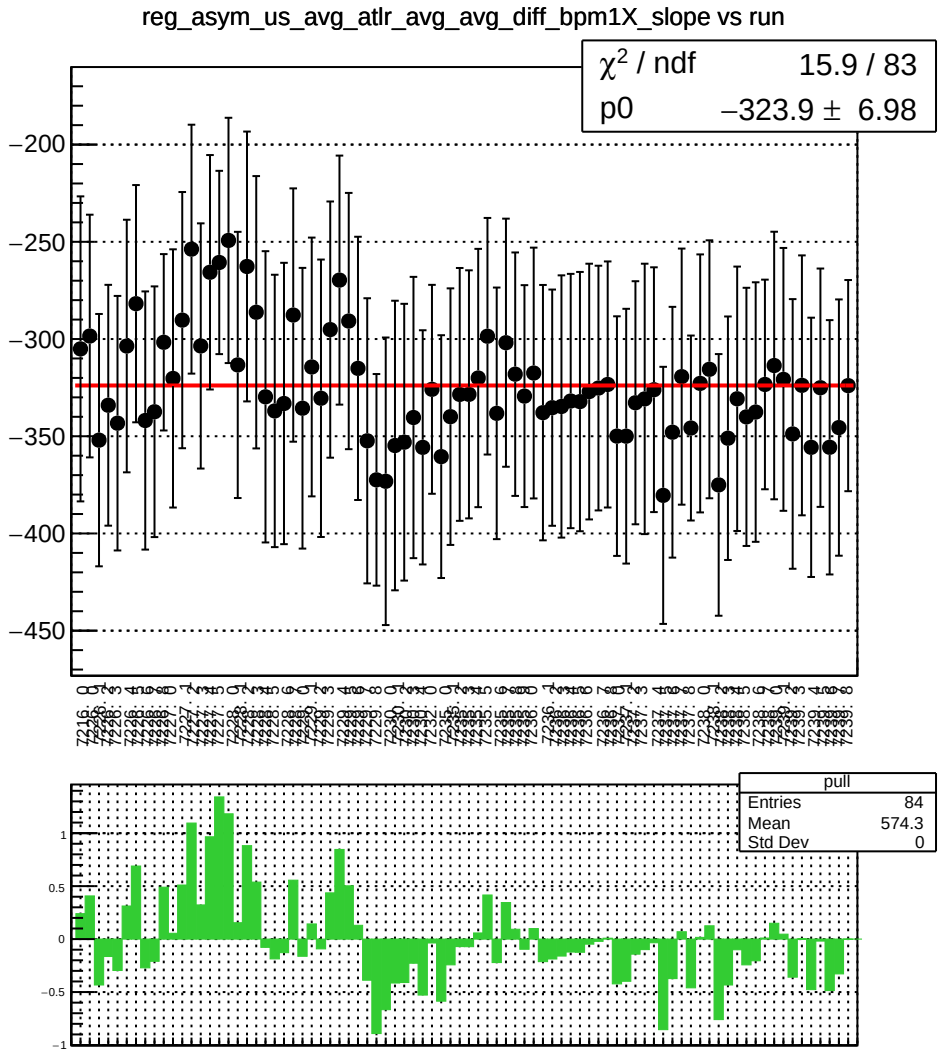

pull1D
Entries 84
Mean −0.02131
Std Dev 0.382

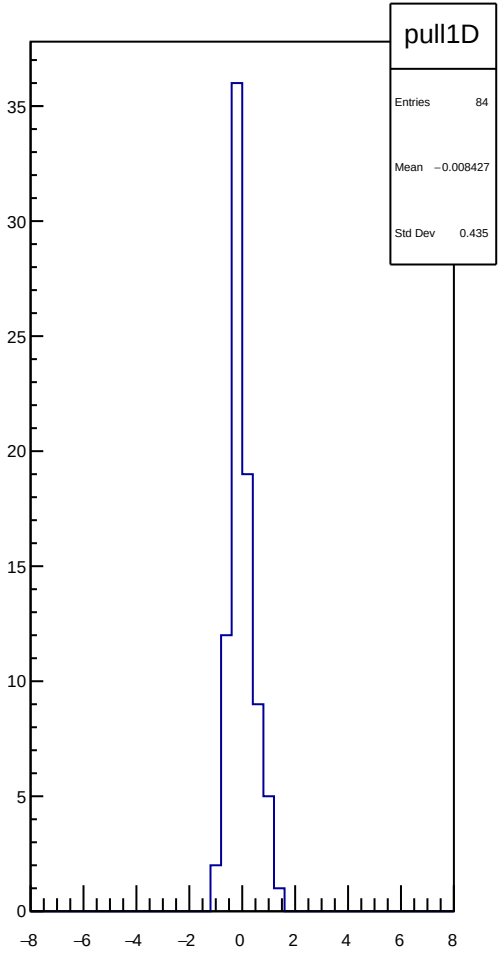

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 17.12 / 83
p0 −424.5 ± 8.654
−250
−300
−350
−400
−450
−500
−550
pull
Entries 84
Mean 408.4
Std Dev 0
1.5
1
0.5
0
−0.5
pull1D
Entries 84
Mean −0.01753
Std Dev 0.4512
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

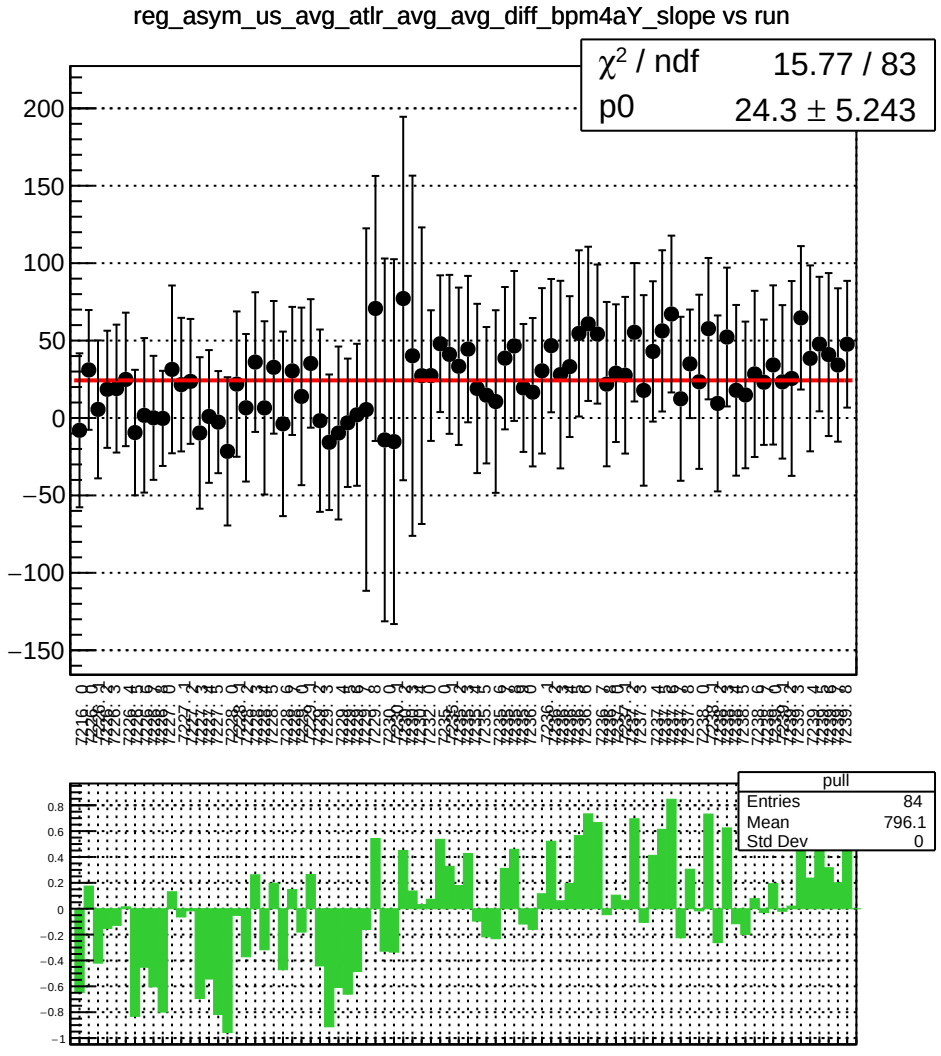

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.1 / 83
p0 −88.74 ± 6.996
pull
Entries 84
Mean 381.7
Std Dev 0

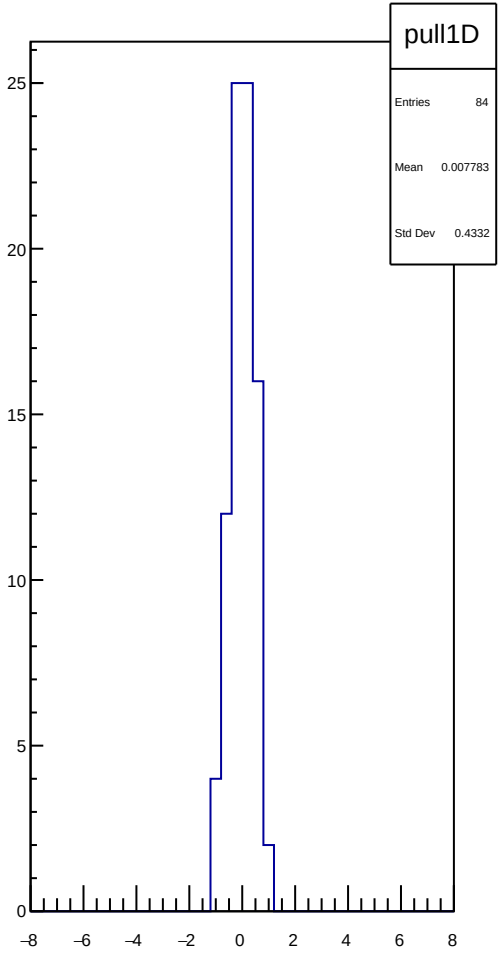

pull1D
Entries 84
Mean 0.01869
Std Dev 0.3631

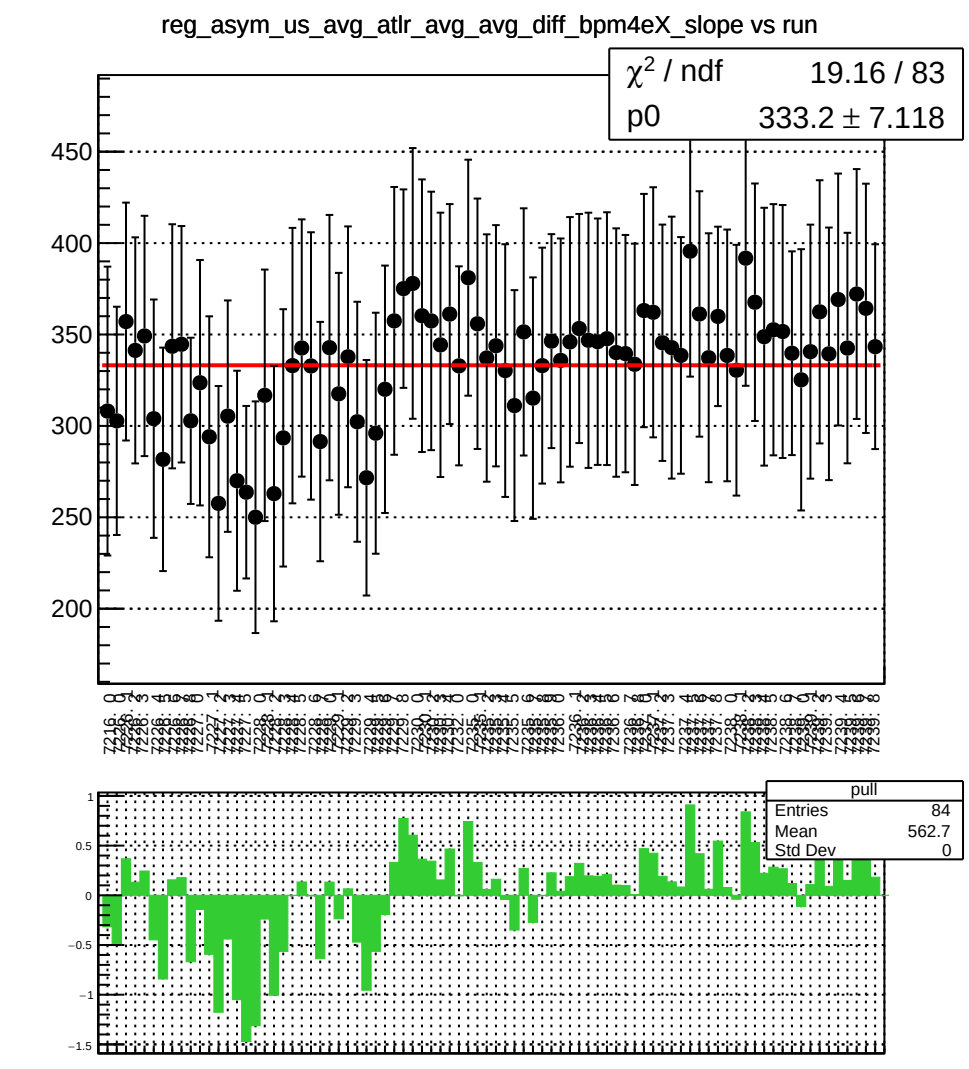

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 41.68 / 83
p0 206.4 ± 0.2967
214
212
210
208
206
204
202
200
198
196
pull
Entries 84
Mean 346.6
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 84
Mean 0.03993
Std Dev 0.7033
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

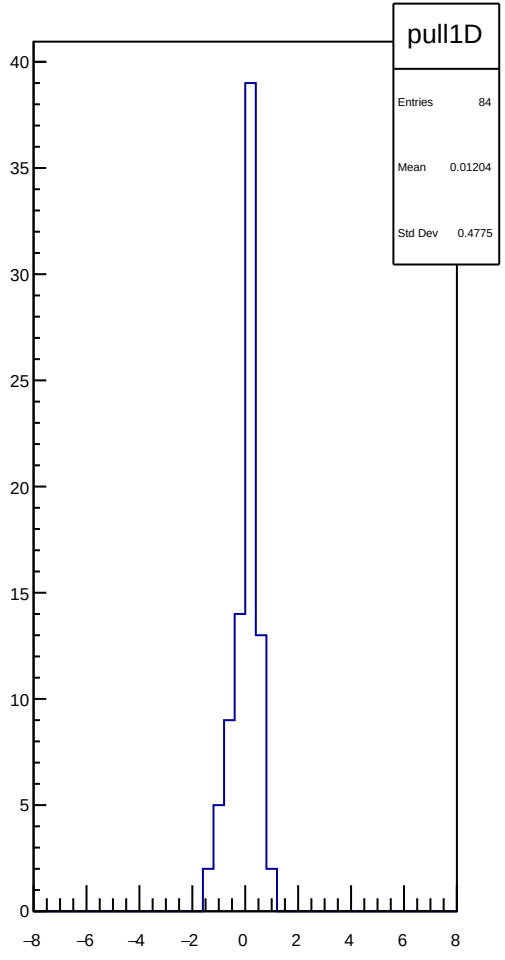

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 15.9 / 83
p0 −323.9 ± 6.98
−200
−250
−300
−350
−400
−450
pull
Entries 84
Mean 574.3
Std Dev 0
1
0.5
0
−0.5
−1

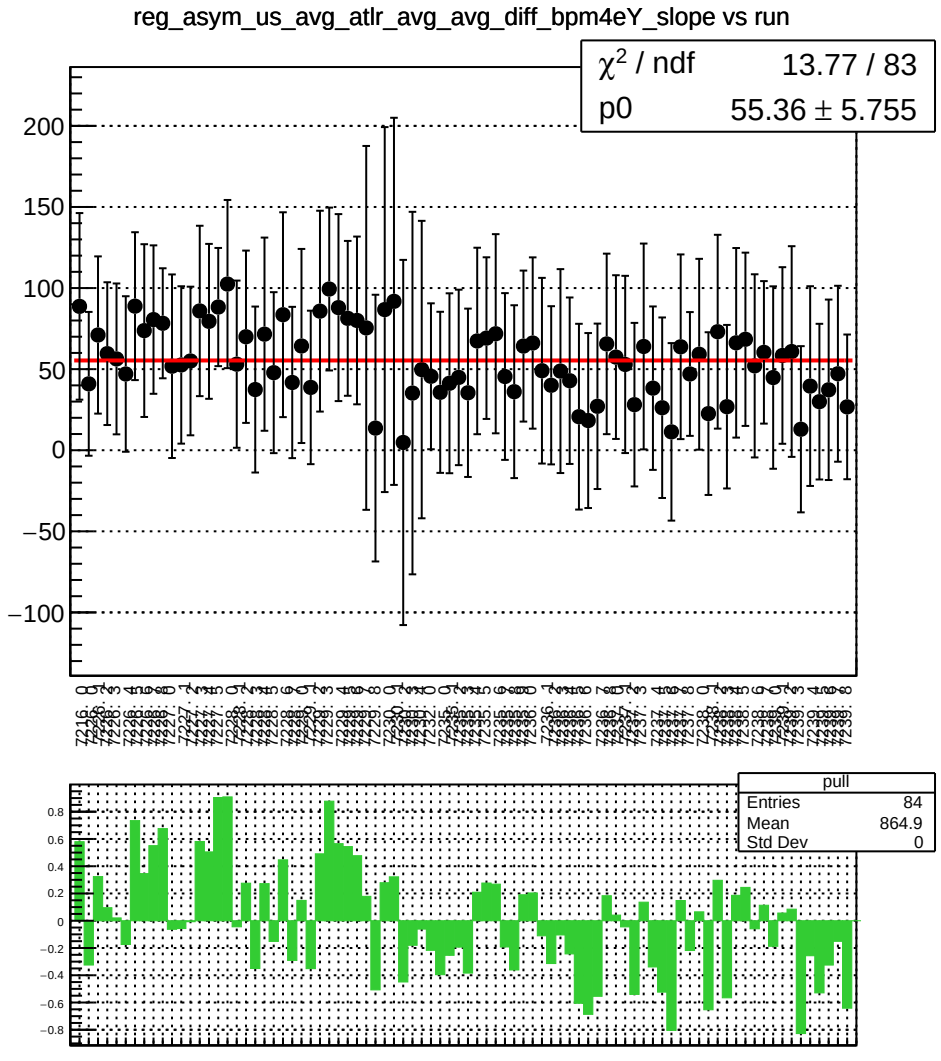

pull1D
Entries 84
Mean −0.008427
Std Dev 0.435
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

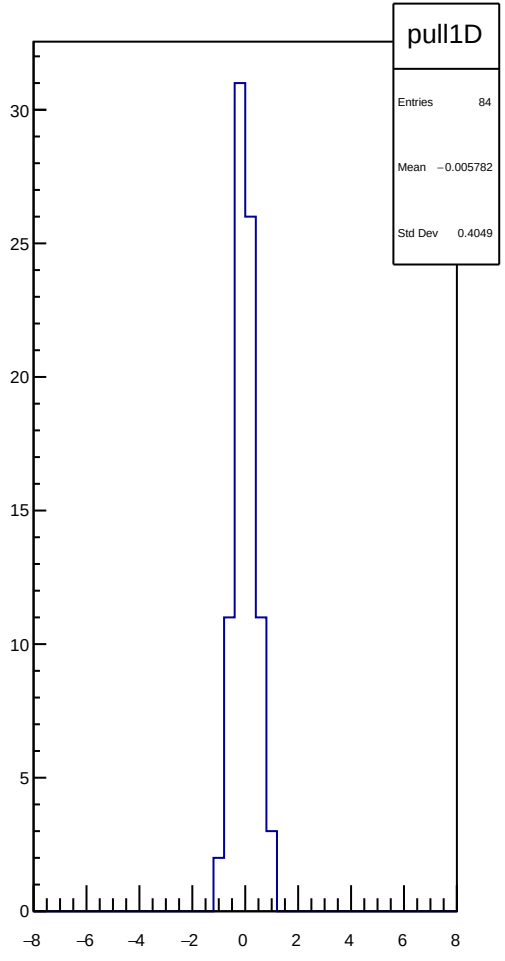

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 15.77 / 83
p0 24.3 ± 5.243
pull
Entries 84
Mean 796.1
Std Dev 0

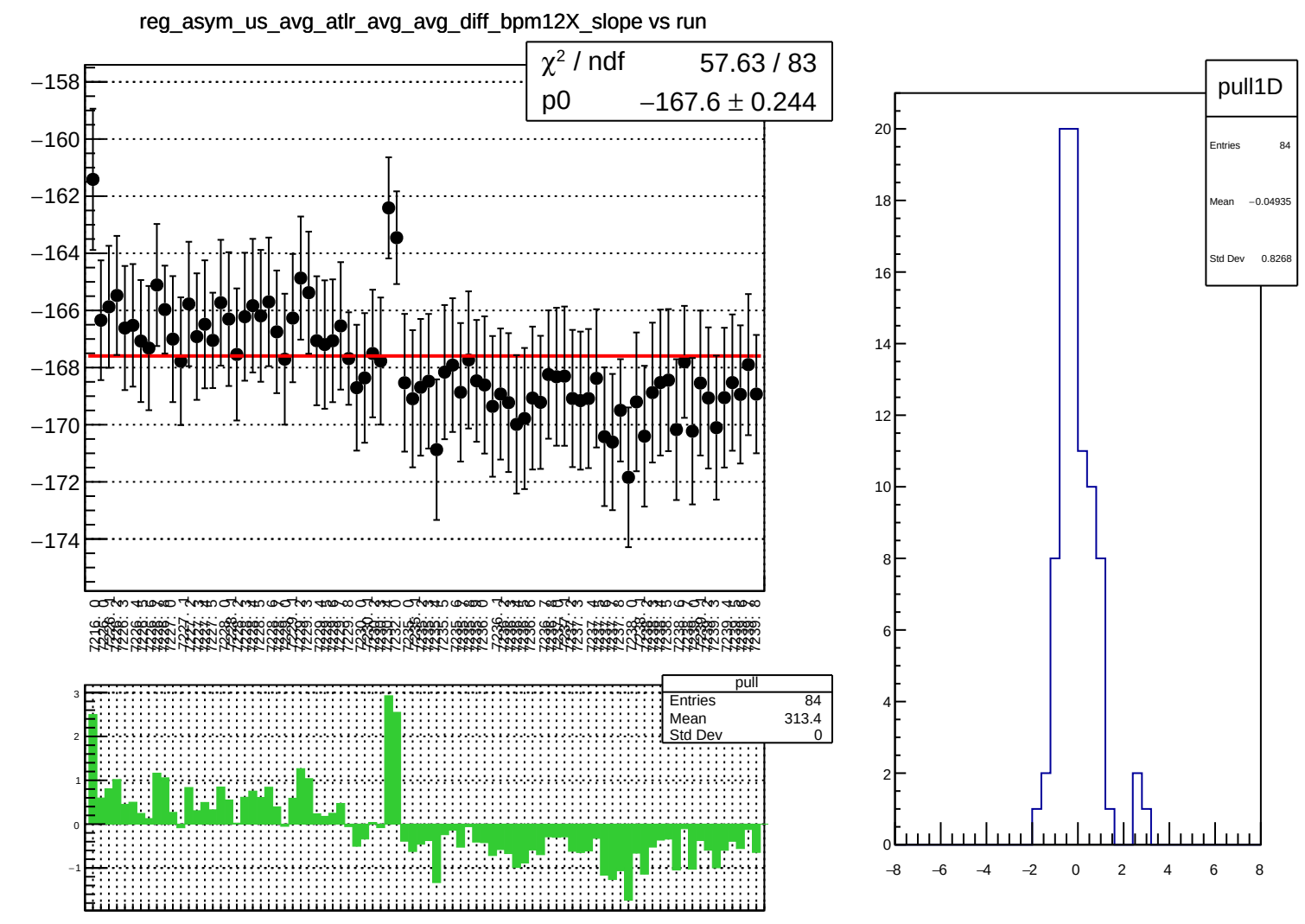

pull1D
Entries 84
Mean 0.007783
Std Dev 0.4332

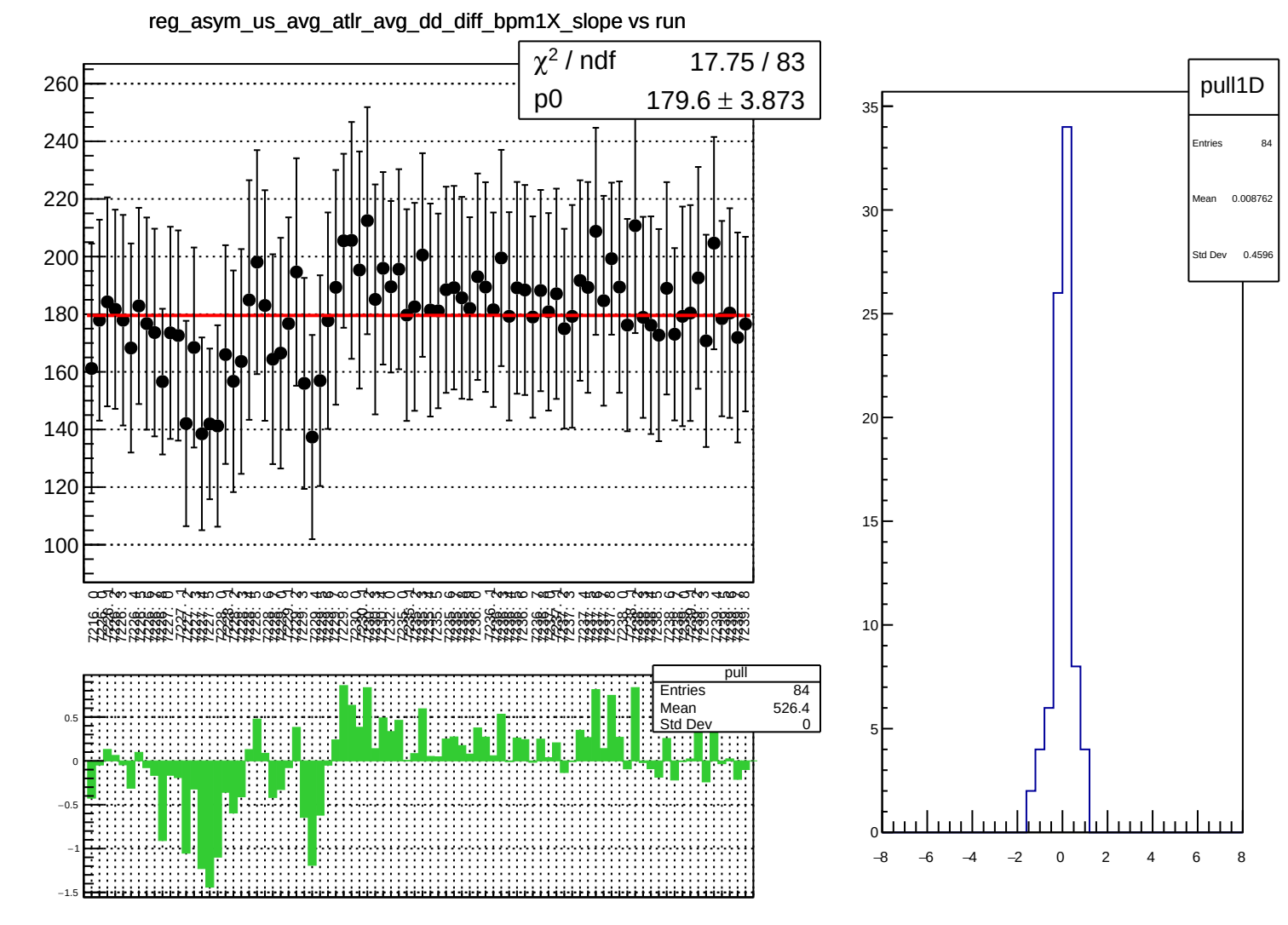

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 19.16 / 83
p0 333.2 ± 7.118
pull
Entries 84
Mean 562.7
Std Dev 0

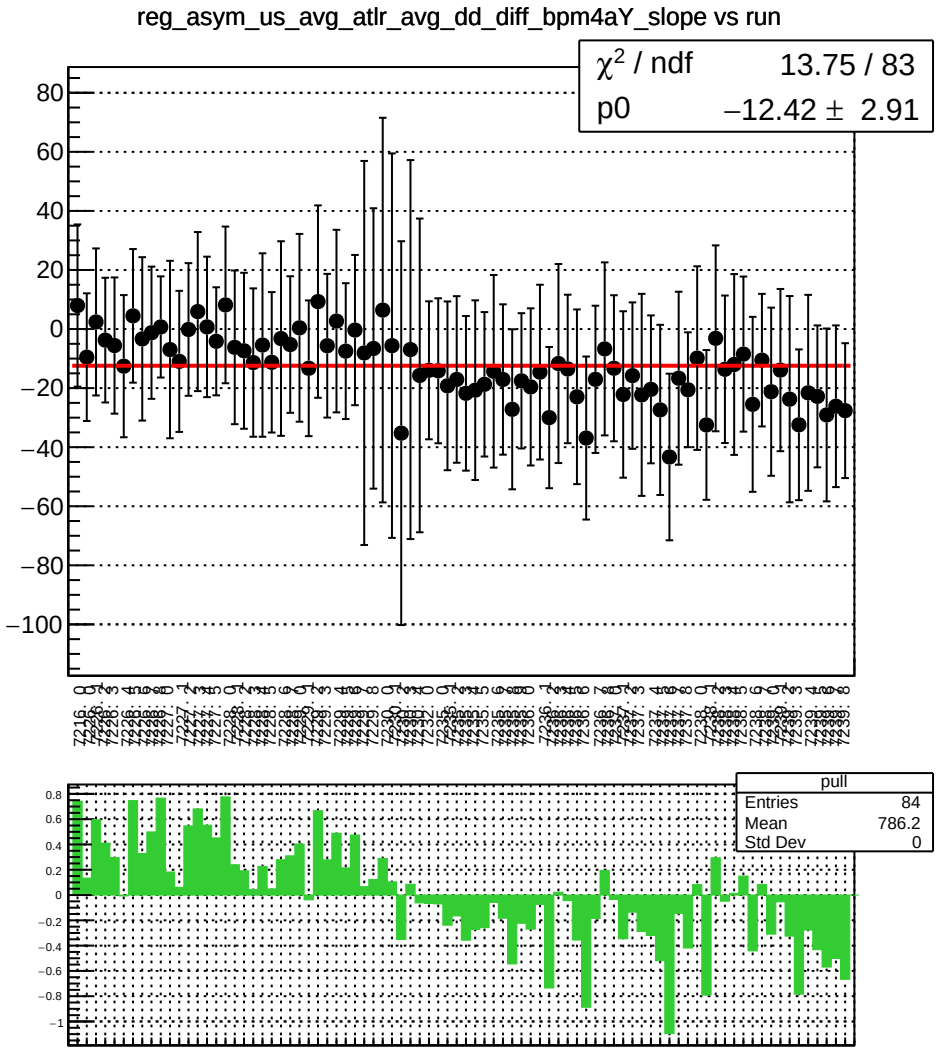

pull1D
Entries 84
Mean 0.01204
Std Dev 0.4775

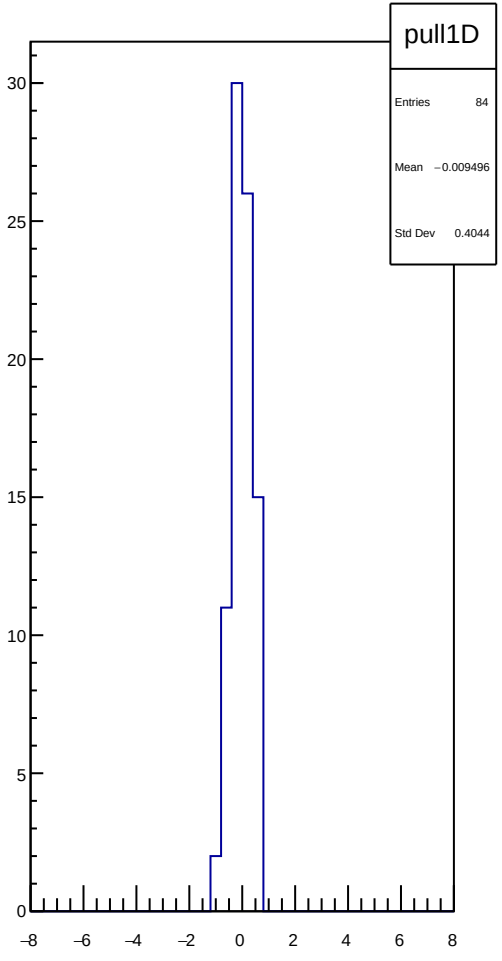

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.77 / 83
p0 55.36 ± 5.755
pull
Entries 84
Mean 864.9
Std Dev 0

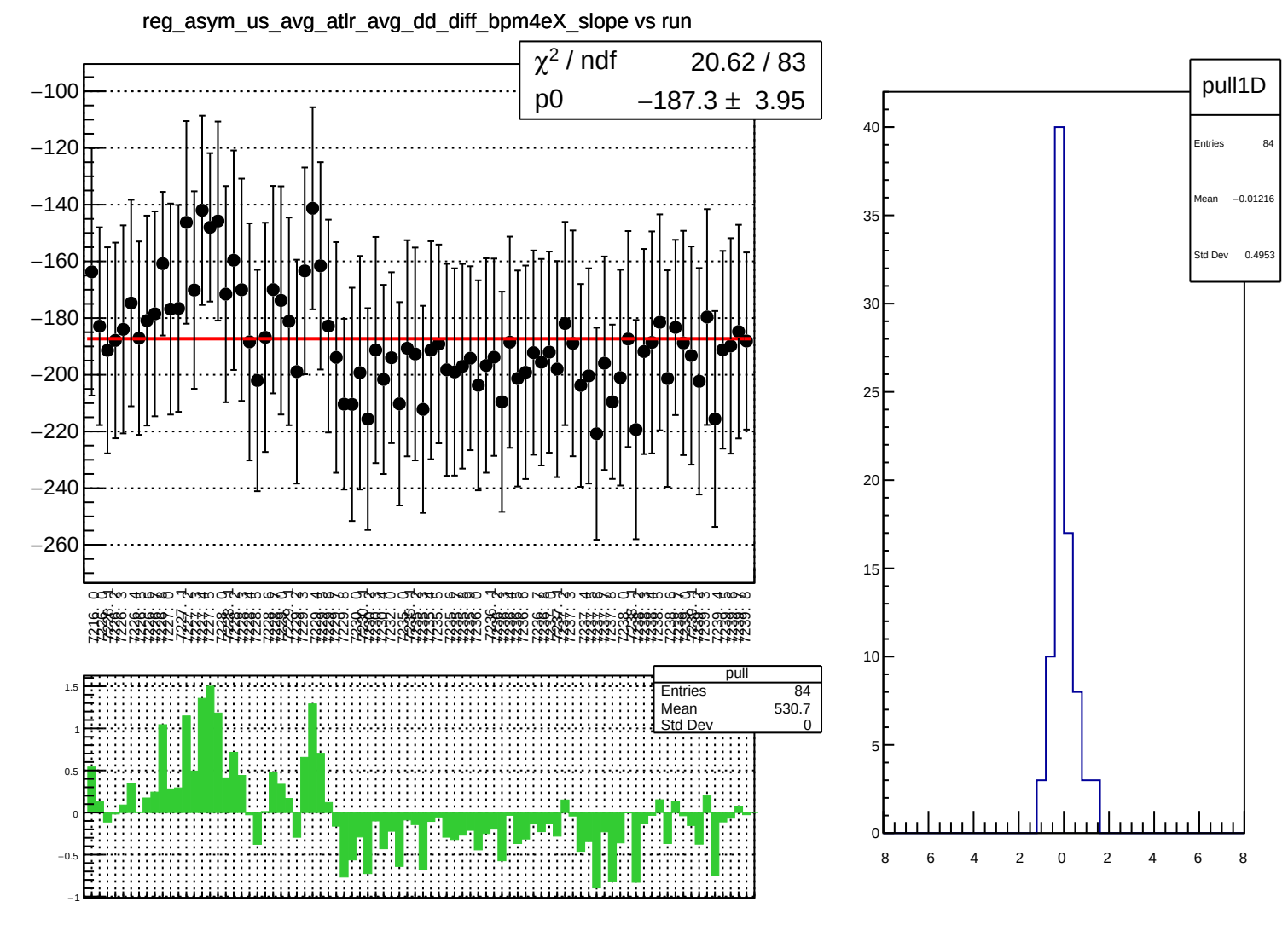

pull1D
Entries 84
Mean −0.005782
Std Dev 0.4049

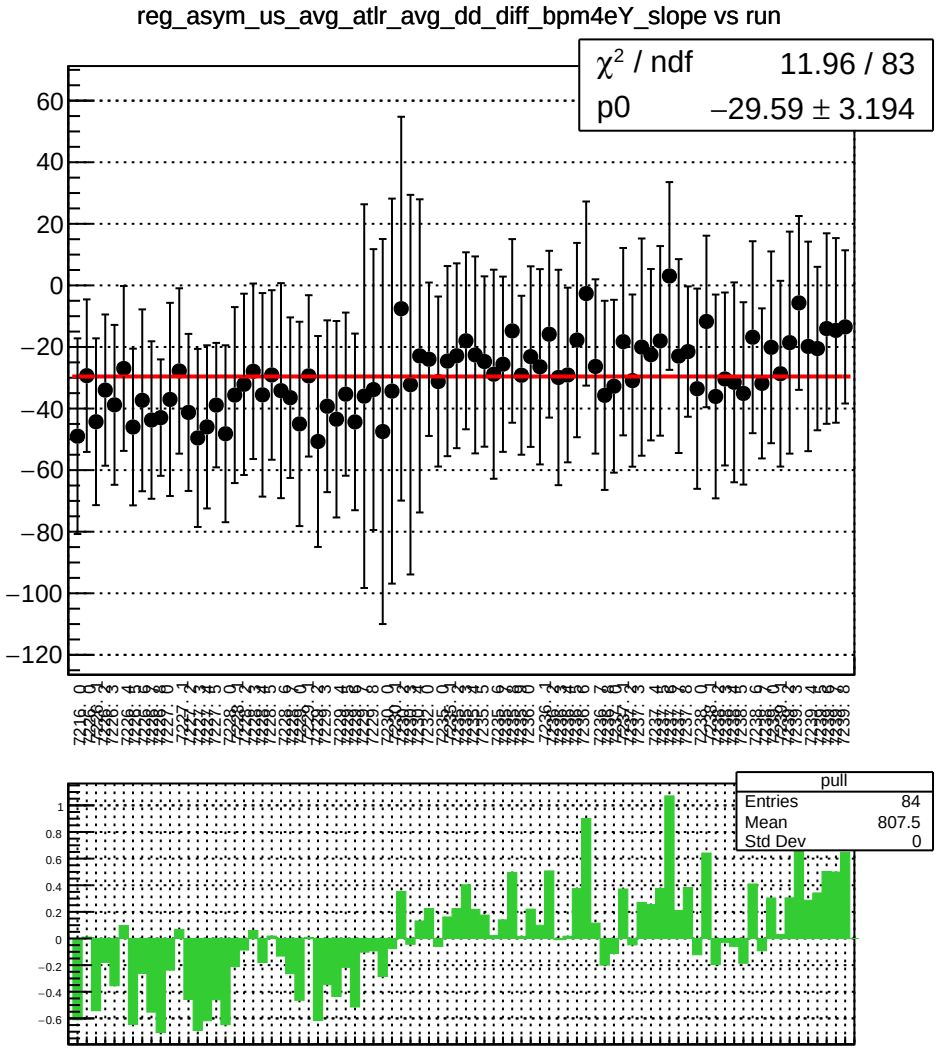

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 57.63 / 83
p0 −167.6 ± 0.244
pull
Entries 84
Mean 313.4
Std Dev 0
pull1D
Entries 84
Mean −0.04935
Std Dev 0.8268

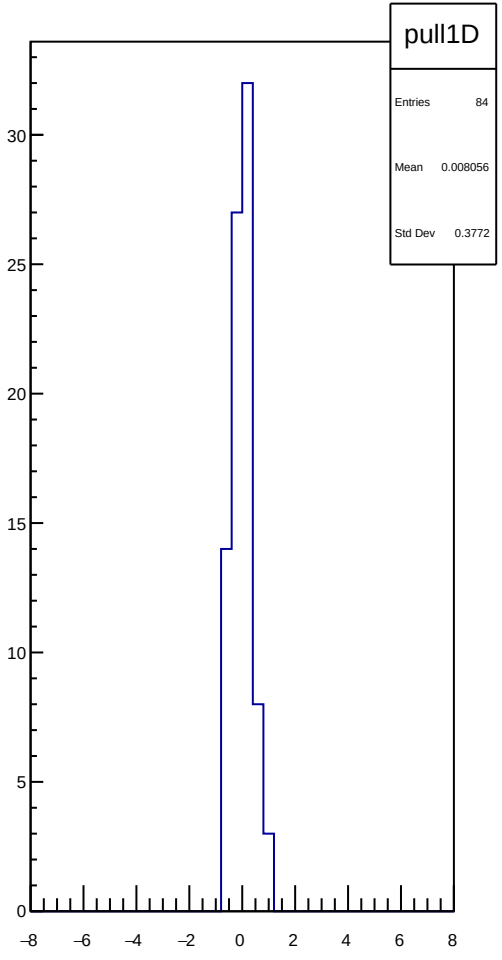

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 17.75 / 83
p0 179.6 ± 3.873
pull
Entries 84
Mean 526.4
Std Dev 0
pull1D
Entries 84
Mean 0.008762
Std Dev 0.4596

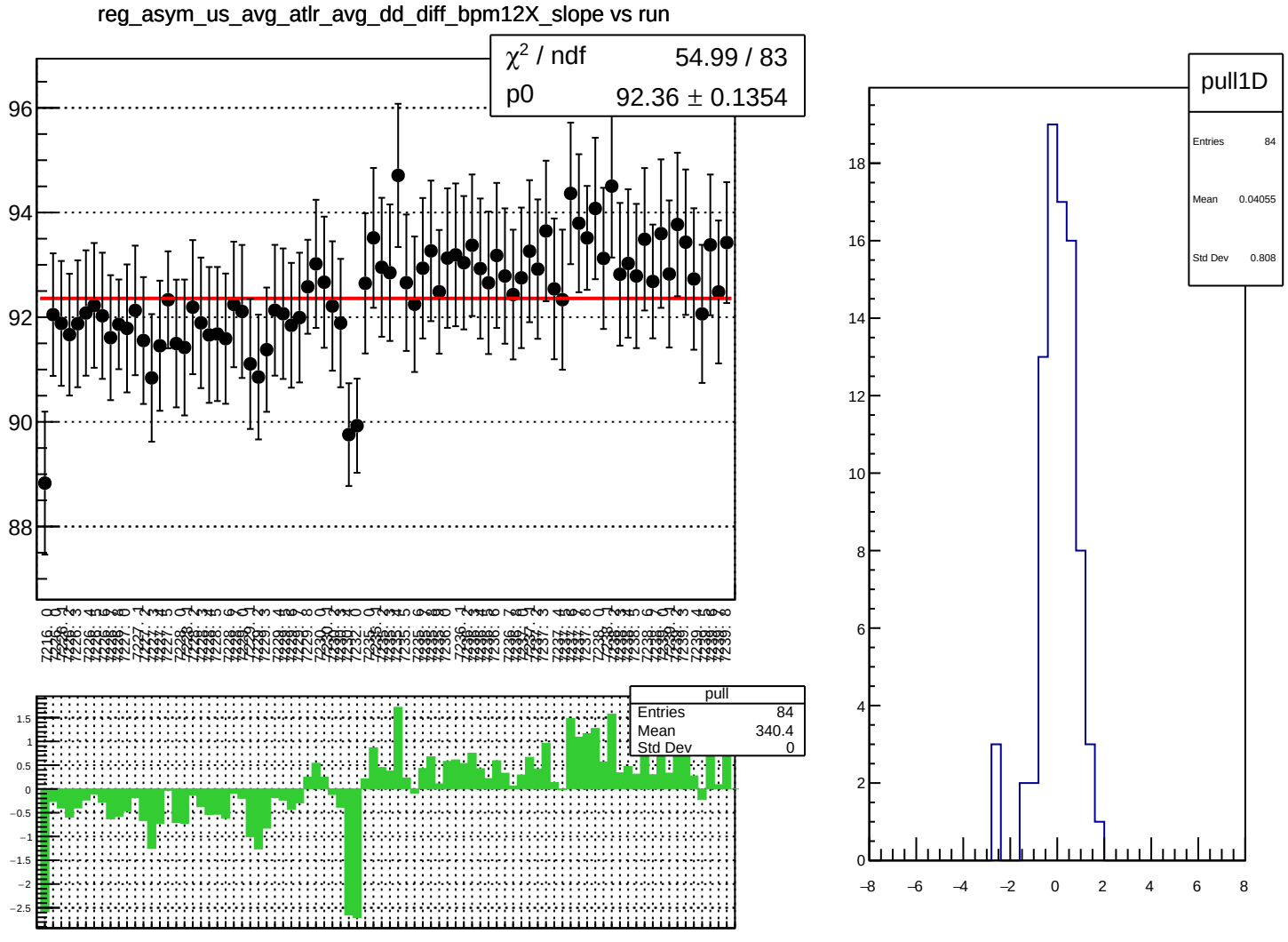

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.75 / 83
p0 −12.42 ± 2.91
pull
Entries 84
Mean 786.2
Std Dev 0

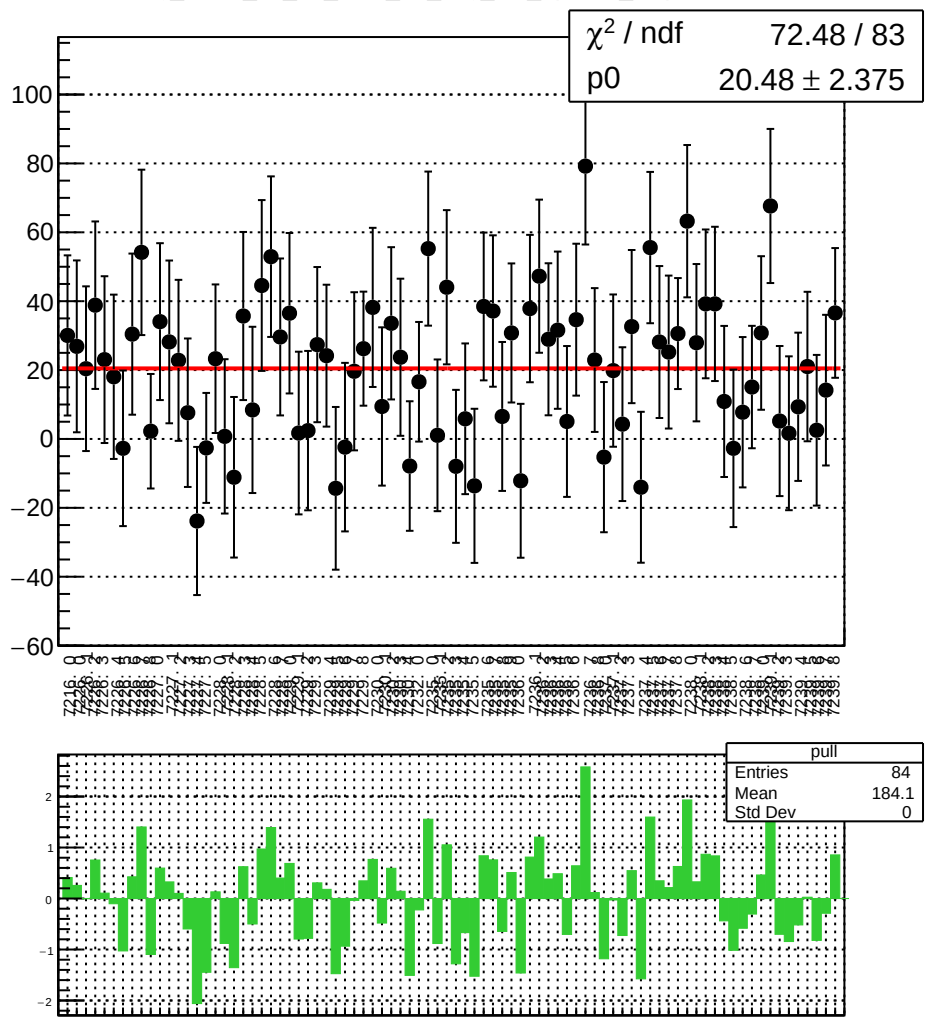

pull1D
Entries 84
Mean −0.009496
Std Dev 0.4044

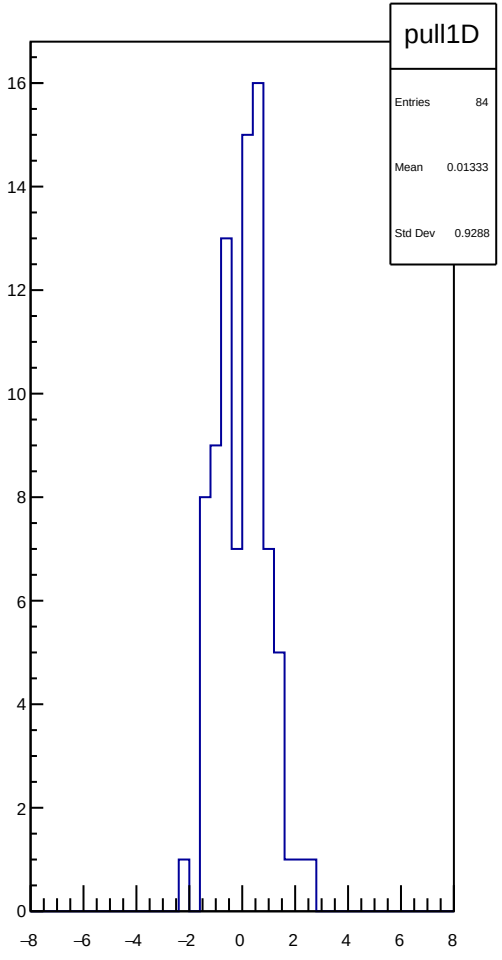

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 20.62 / 83
p0 −187.3 ± 3.95
pull
Entries 84
Mean 530.7
Std Dev 0
pull1D
Entries 84
Mean −0.01216
Std Dev 0.4953

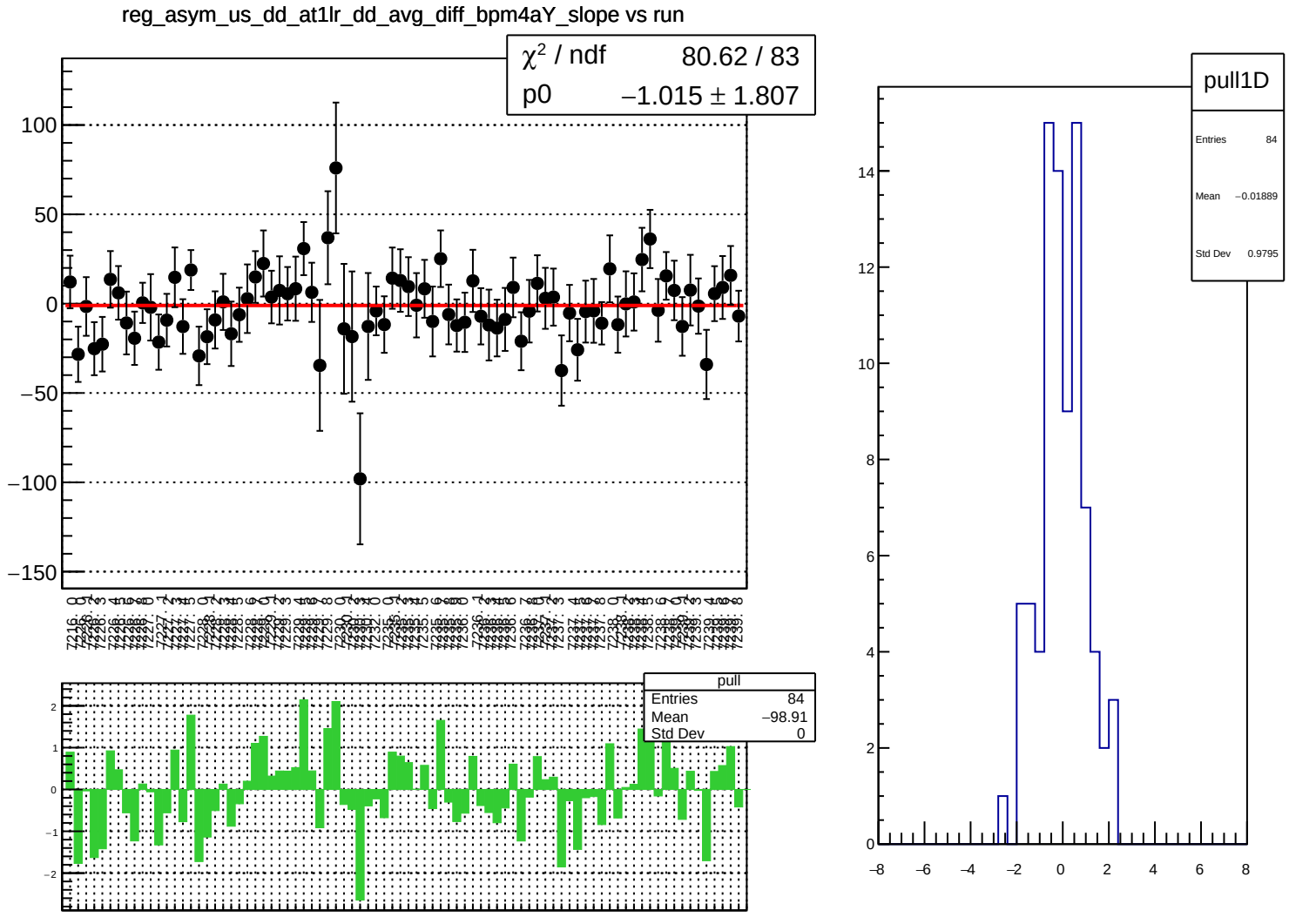

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.96 / 83
p0 −29.59 ± 3.194
pull
Entries 84
Mean 807.5
Std Dev 0

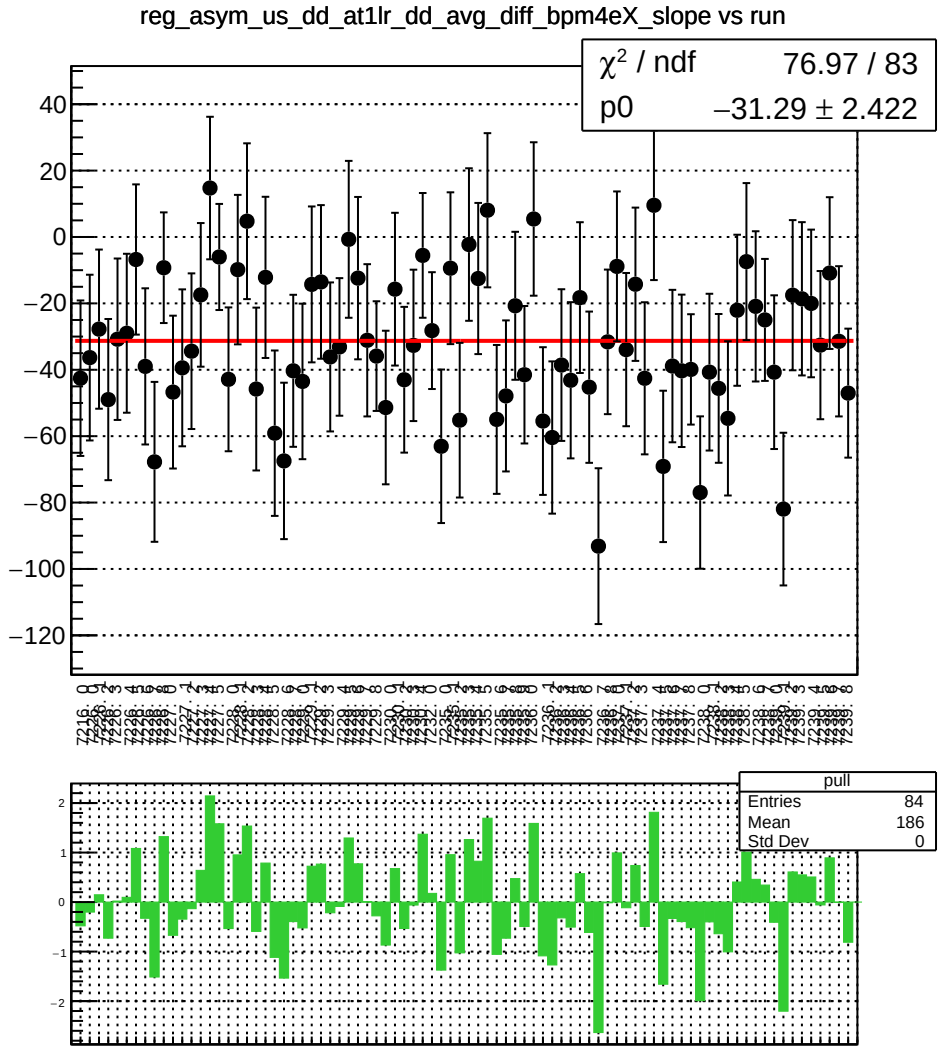

pull1D
Entries 84
Mean 0.008056
Std Dev 0.3772

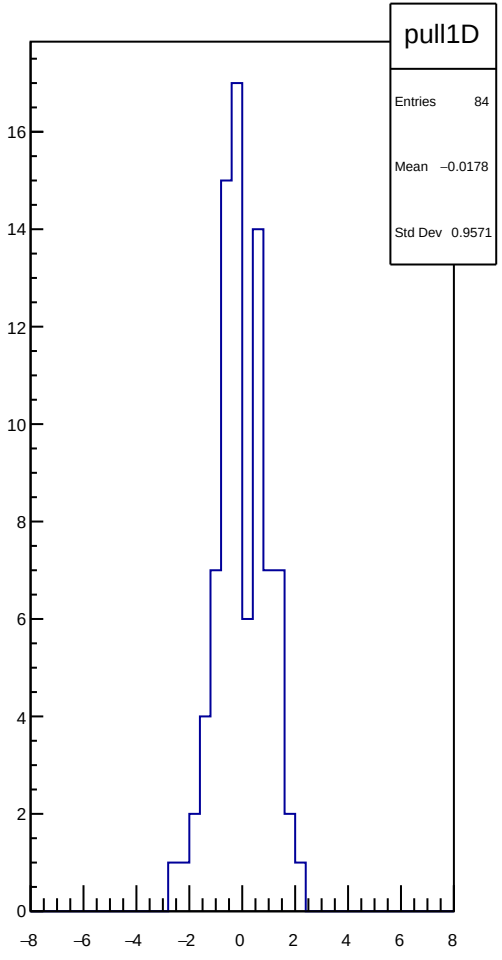

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 54.99 / 83
p0 92.36 ± 0.1354
pull
Entries 84
Mean 340.4
Std Dev 0
pull1D
Entries 84
Mean 0.04055
Std Dev 0.808

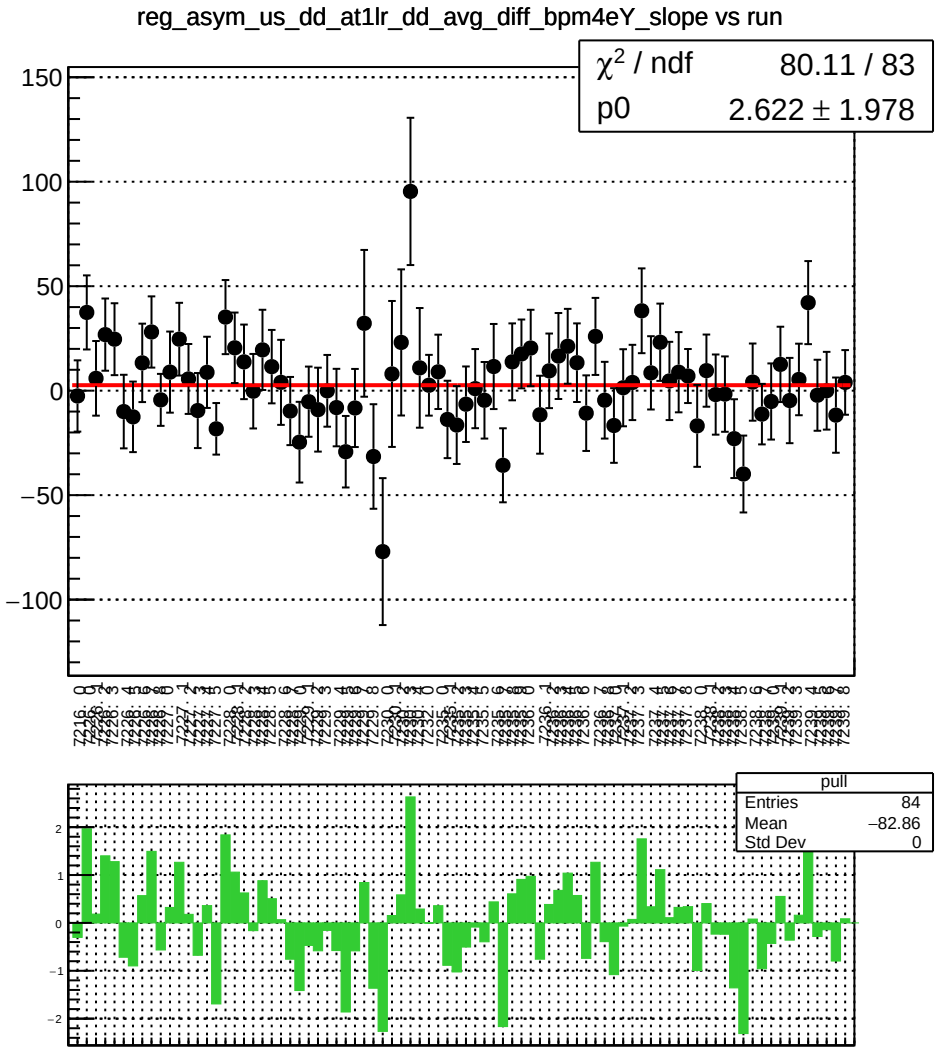

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 72.48 / 83
p0 20.48 ± 2.375
pull
Entries 84
Mean 184.1
Std Dev 0

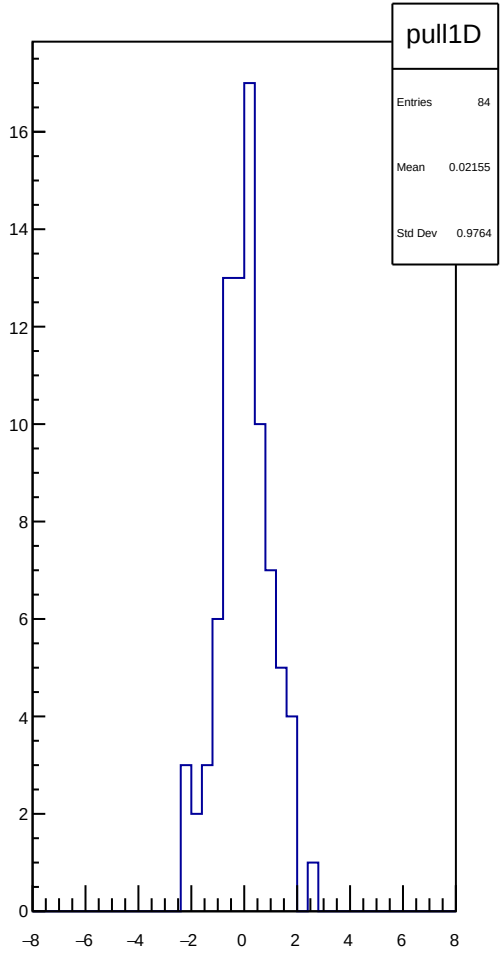

pull1D
Entries 84
Mean 0.01333
Std Dev 0.9288

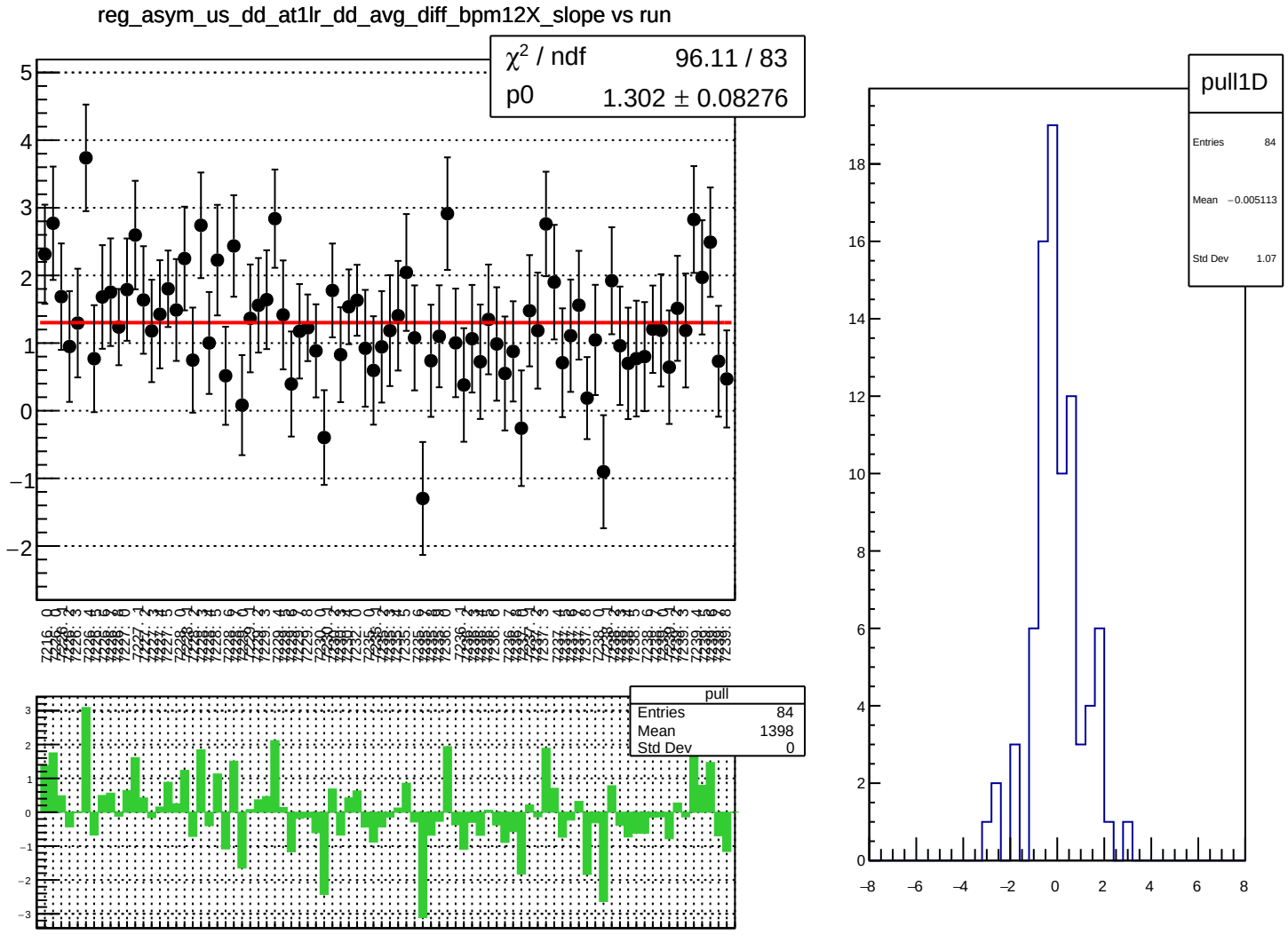

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 80.62 / 83
p0 −1.015 ± 1.807
pull
Entries 84
Mean −98.91
Std Dev 0
pull1D
Entries 84
Mean −0.01889
Std Dev 0.9795

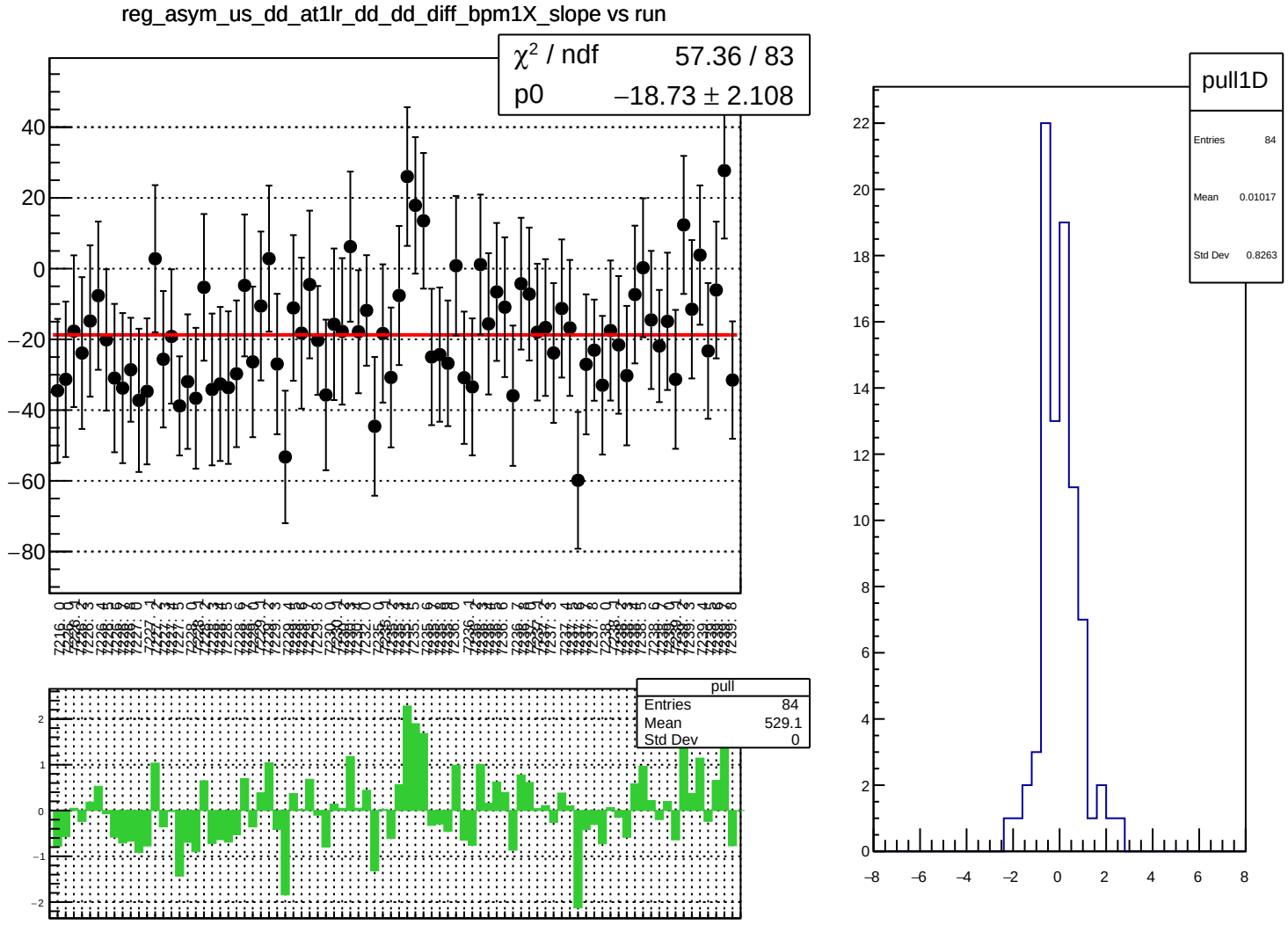

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 76.97 / 83
p0 −31.29 ± 2.422
pull
Entries 84
Mean 186
Std Dev 0

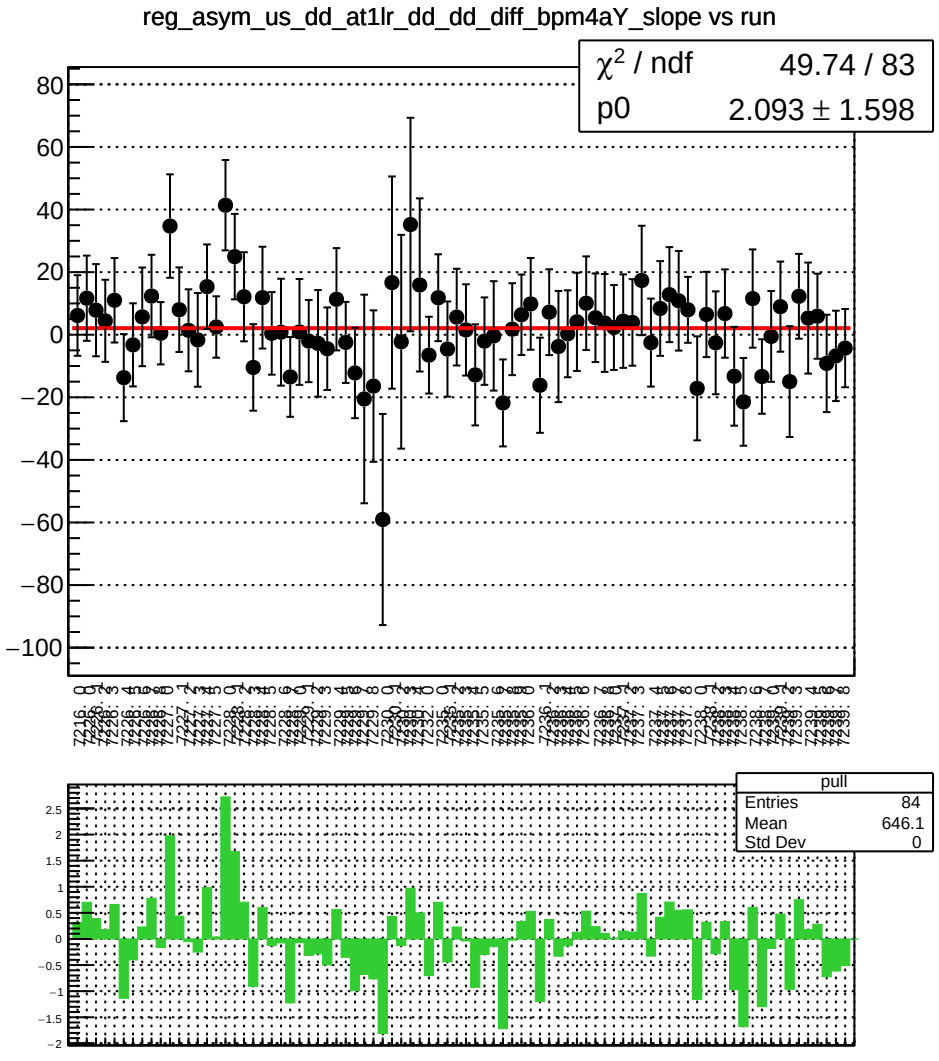

pull1D
Entries 84
Mean −0.0178
Std Dev 0.9571

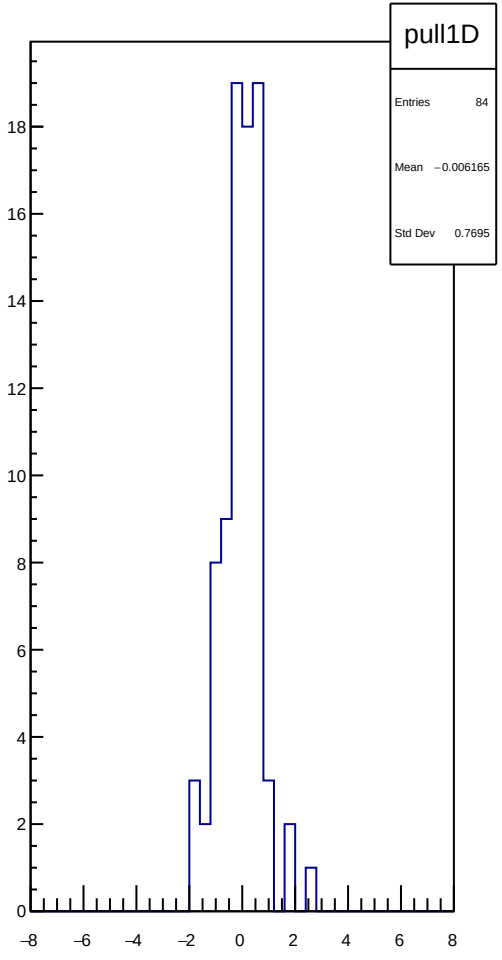

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 80.11 / 83
p0 2.622 ± 1.978
150
100
50
0
−50
−100
pull
Entries 84
Mean −82.86
Std Dev 0
2
1
0
−1
−2

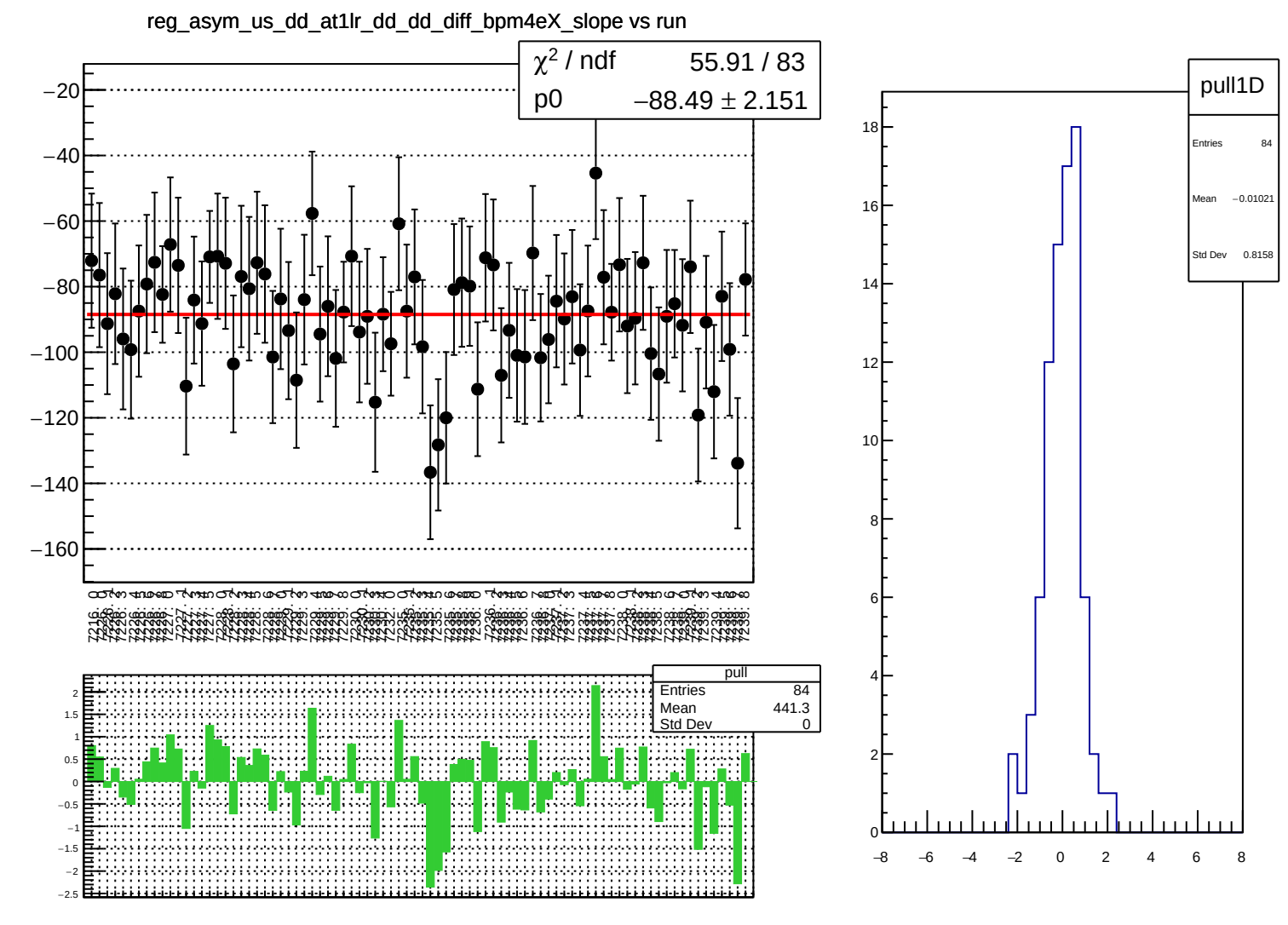

pull1D
Entries 84
Mean 0.02155
Std Dev 0.9764
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

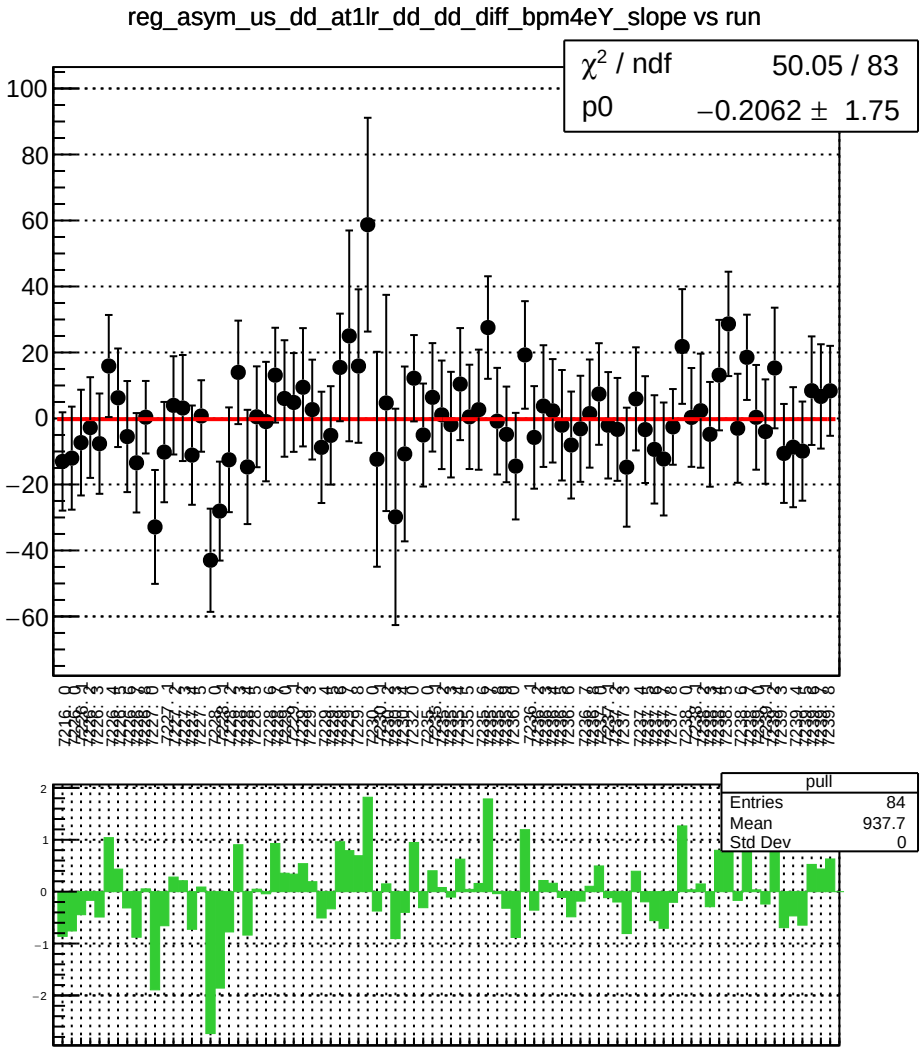

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 96.11 / 83
p0 1.302 ± 0.08276
pull
Entries 84
Mean 1398
Std Dev 0
pull1D
Entries 84
Mean −0.005113
Std Dev 1.07

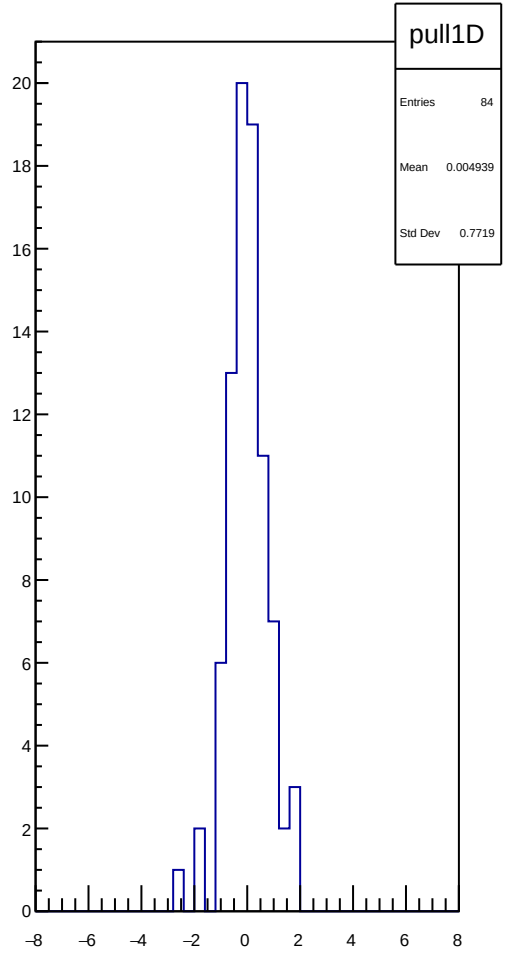

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 57.36 / 83
p0 −18.73 ± 2.108
pull
Entries 84
Mean 529.1
Std Dev 0
pull1D
Entries 84
Mean 0.01017
Std Dev 0.8263

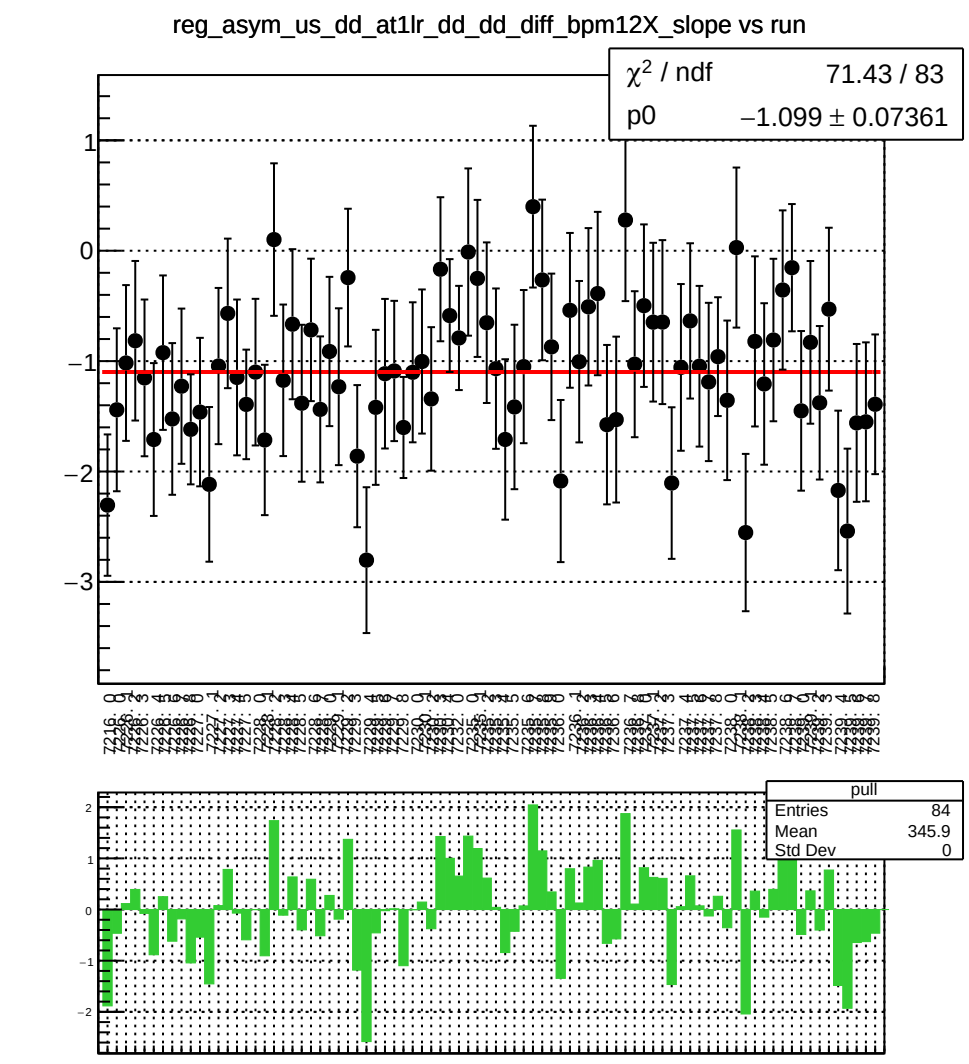

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 49.74 / 83
p0 2.093 ± 1.598
pull
Entries 84
Mean 646.1
Std Dev 0

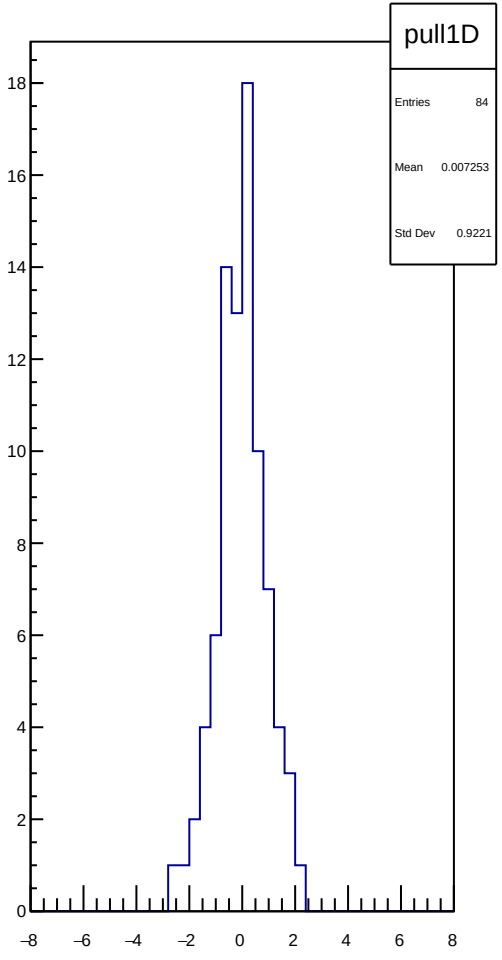

pull1D
Entries 84
Mean −0.006165
Std Dev 0.7695

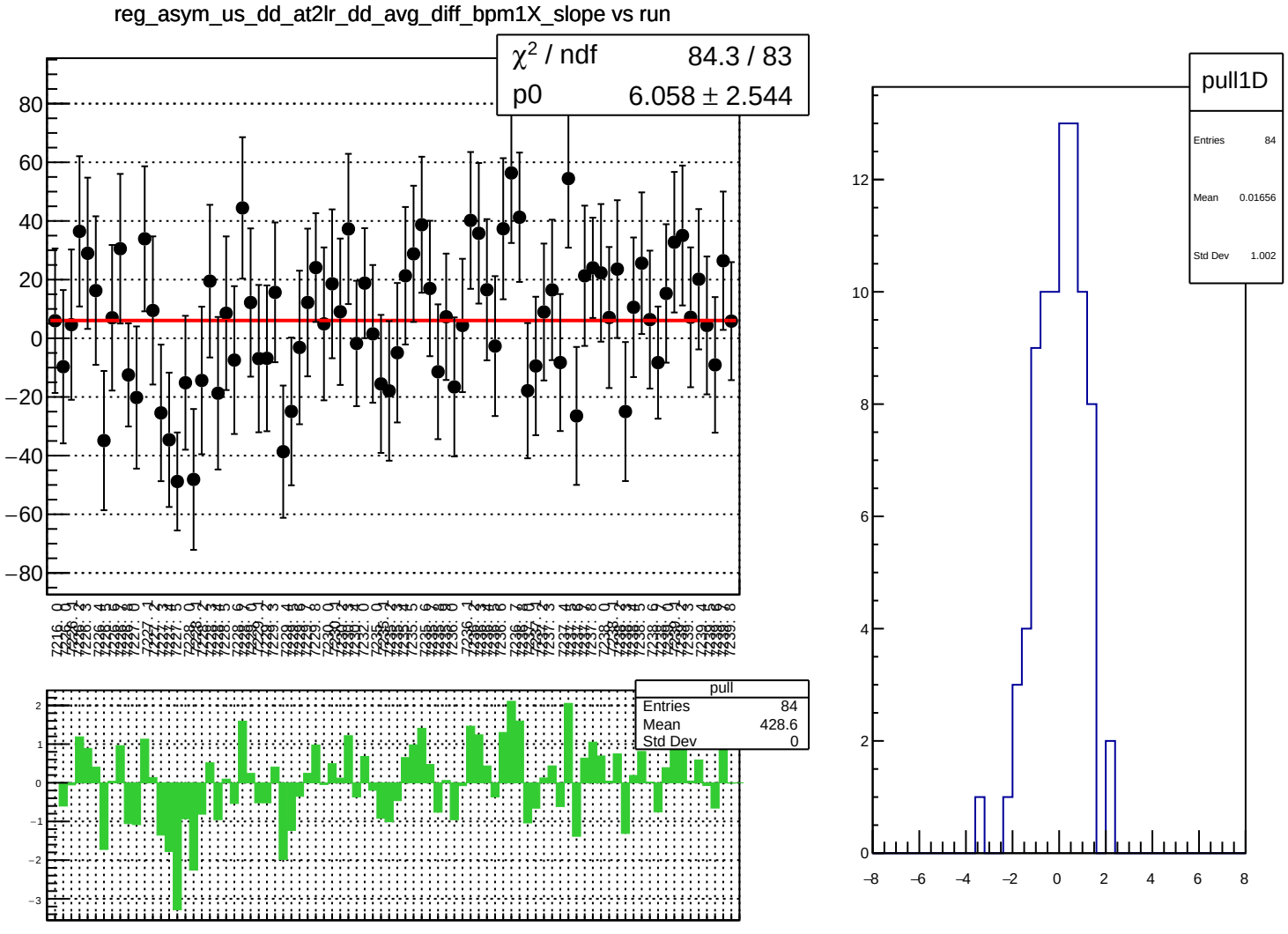

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 55.91 / 83
p0 −88.49 ± 2.151
pull
Entries 84
Mean 441.3
Std Dev 0
pull1D
Entries 84
Mean −0.01021
Std Dev 0.8158

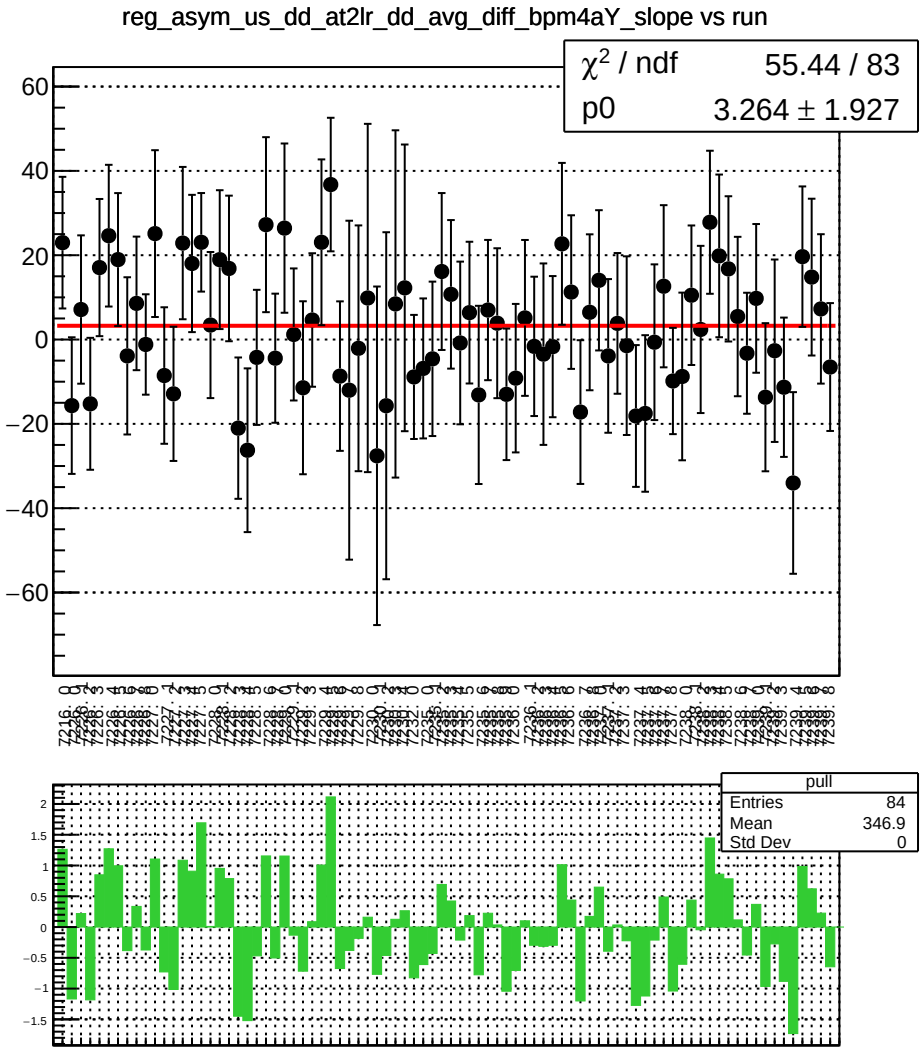

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 50.05 / 83
p0 −0.2062 ± 1.75
pull
Entries 84
Mean 937.7
Std Dev 0

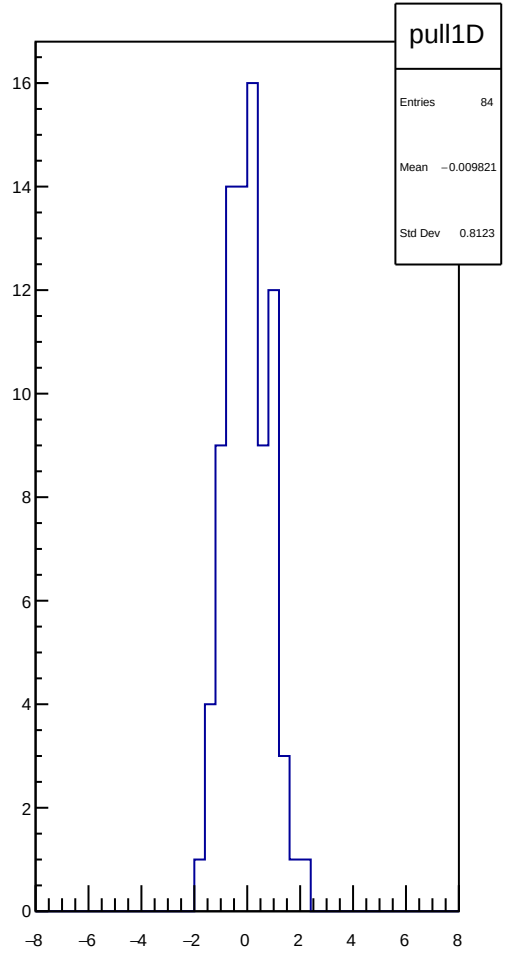

pull1D
Entries 84
Mean 0.004939
Std Dev 0.7719

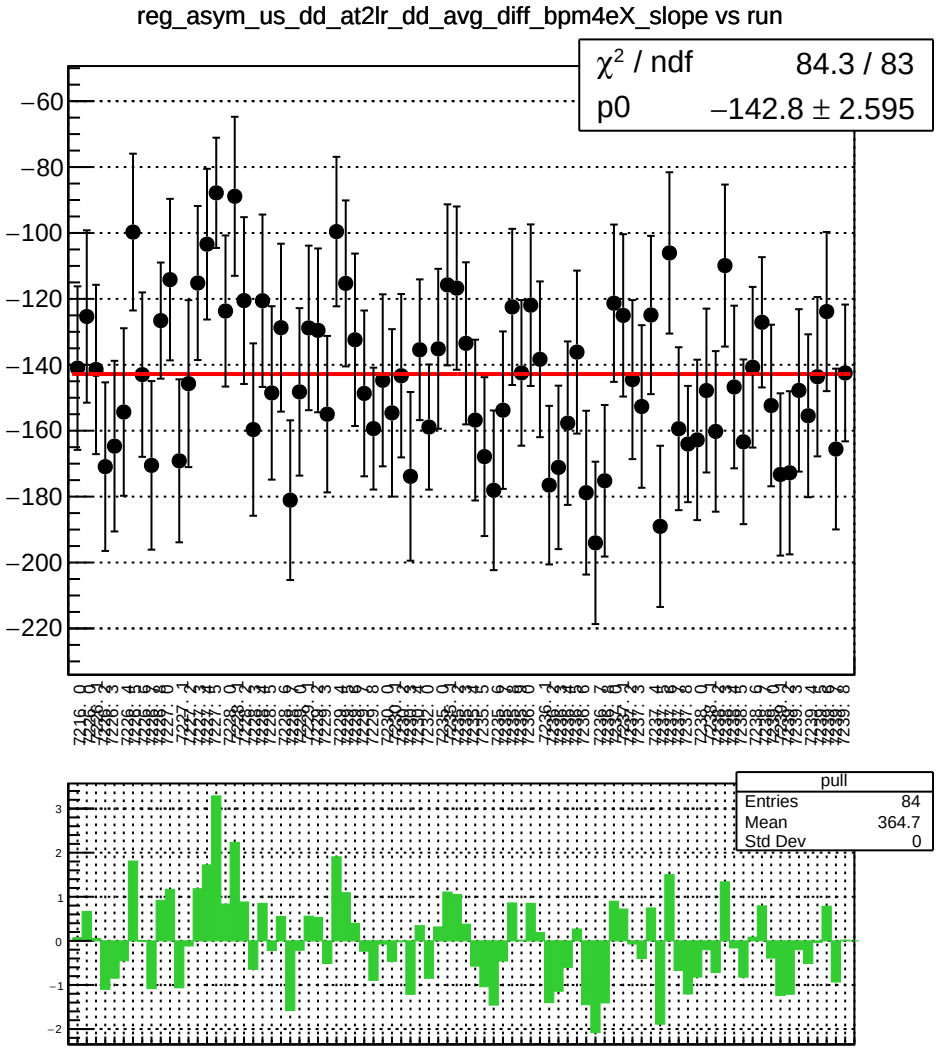

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 71.43 / 83
p0 −1.099 ± 0.07361
pull
Entries 84
Mean 345.9
Std Dev 0

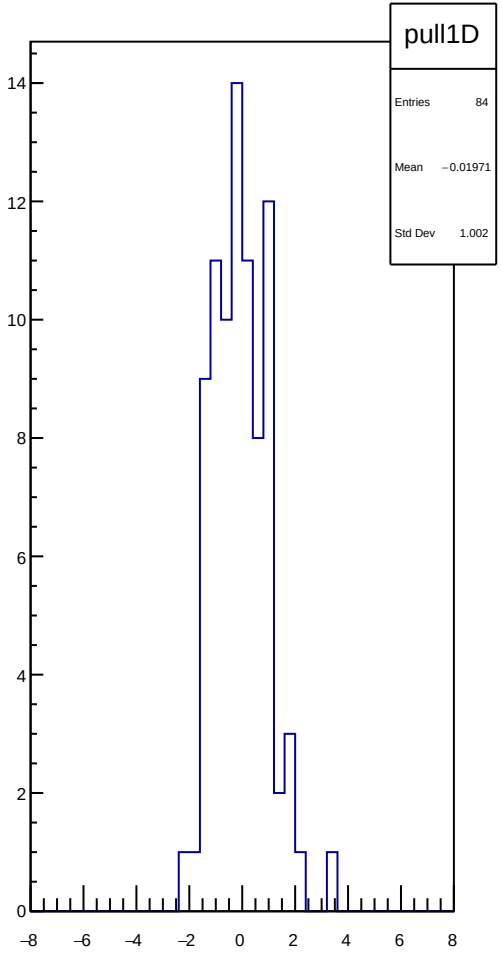

pull1D
Entries 84
Mean 0.007253
Std Dev 0.9221

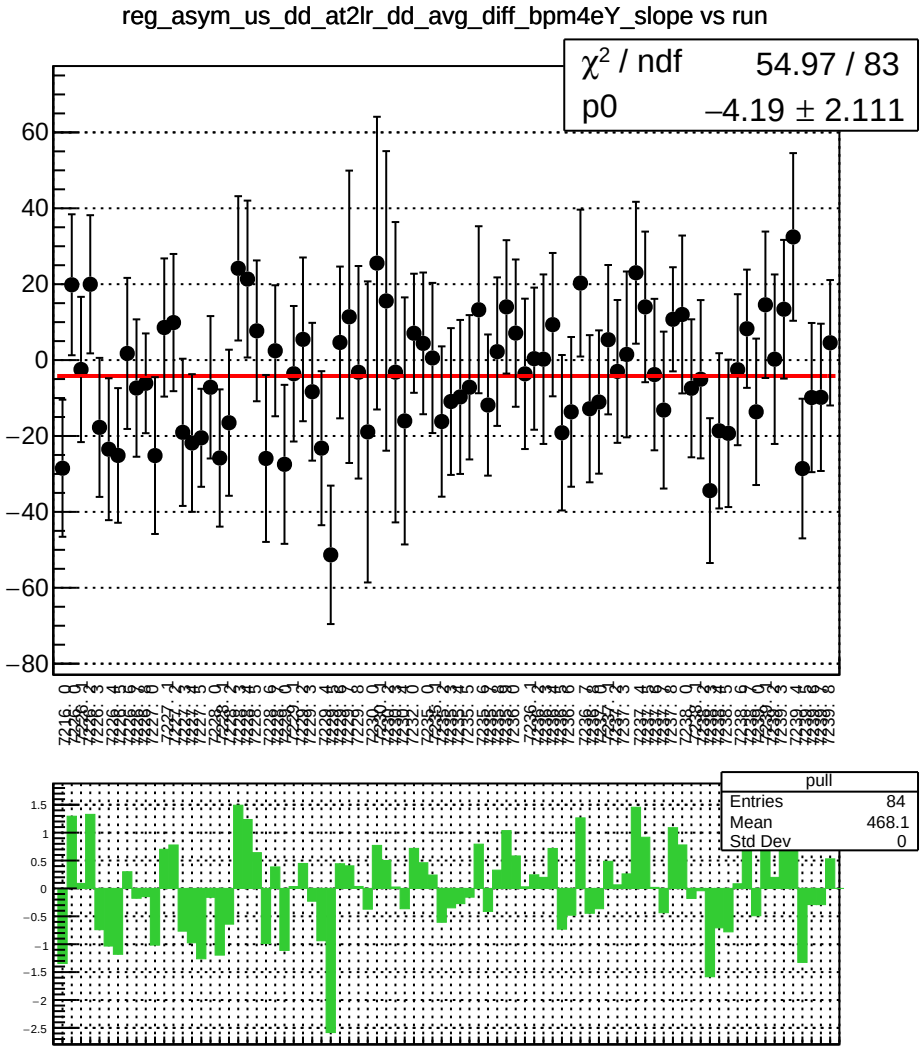

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 84.3 / 83
p0 6.058 ± 2.544
pull
Entries 84
Mean 428.6
Std Dev 0
pull1D
Entries 84
Mean 0.01656
Std Dev 1.002

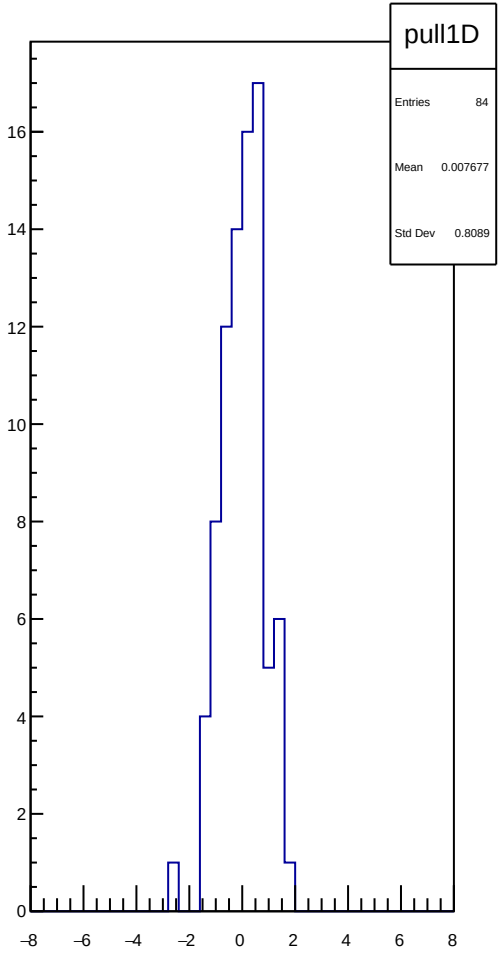

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 55.44 / 83
p0 3.264 ± 1.927
pull
Entries 84
Mean 346.9
Std Dev 0

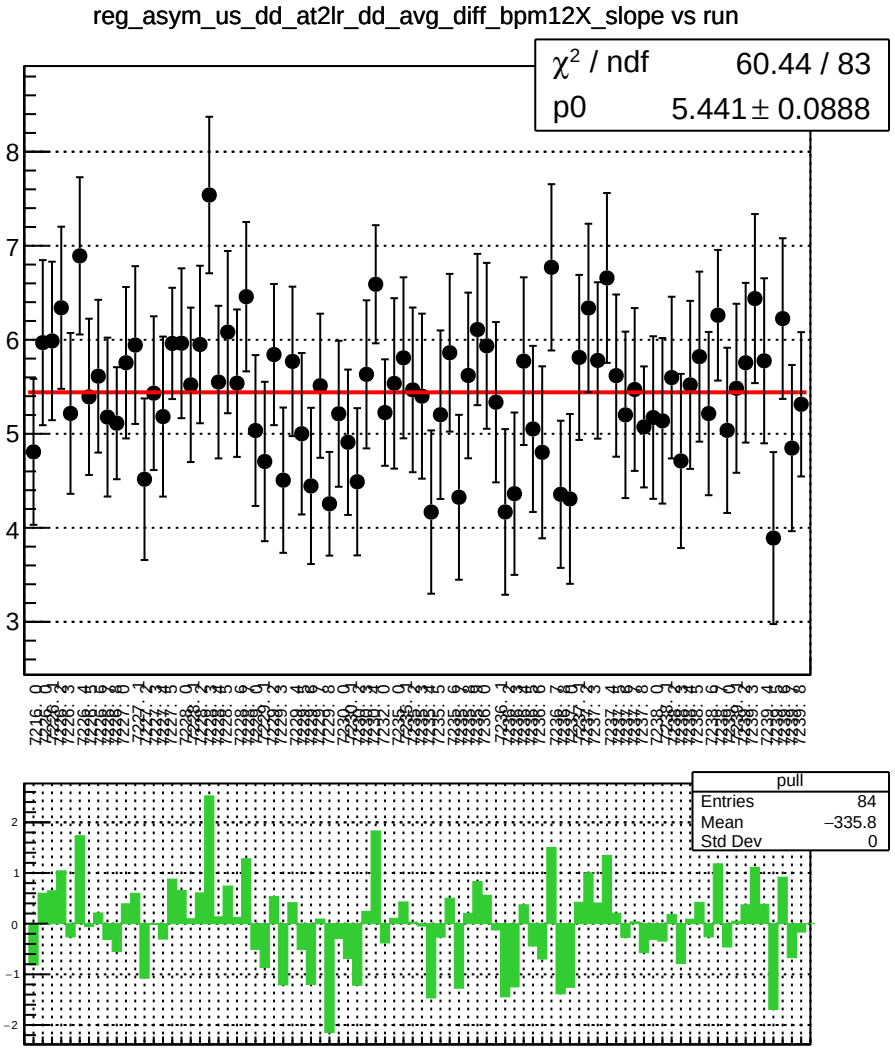

pull1D
Entries 84
Mean −0.009821
Std Dev 0.8123

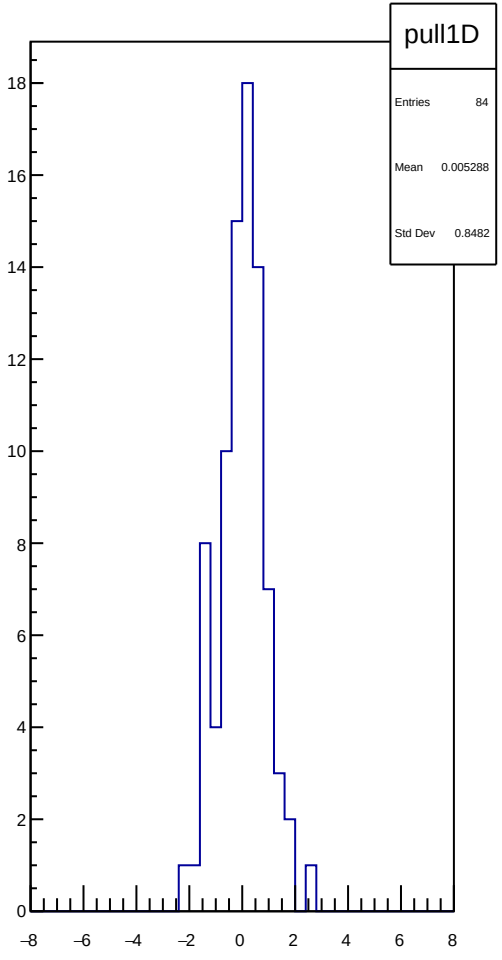

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 84.3 / 83
p0 −142.8 ± 2.595
pull
Entries 84
Mean 364.7
Std Dev 0

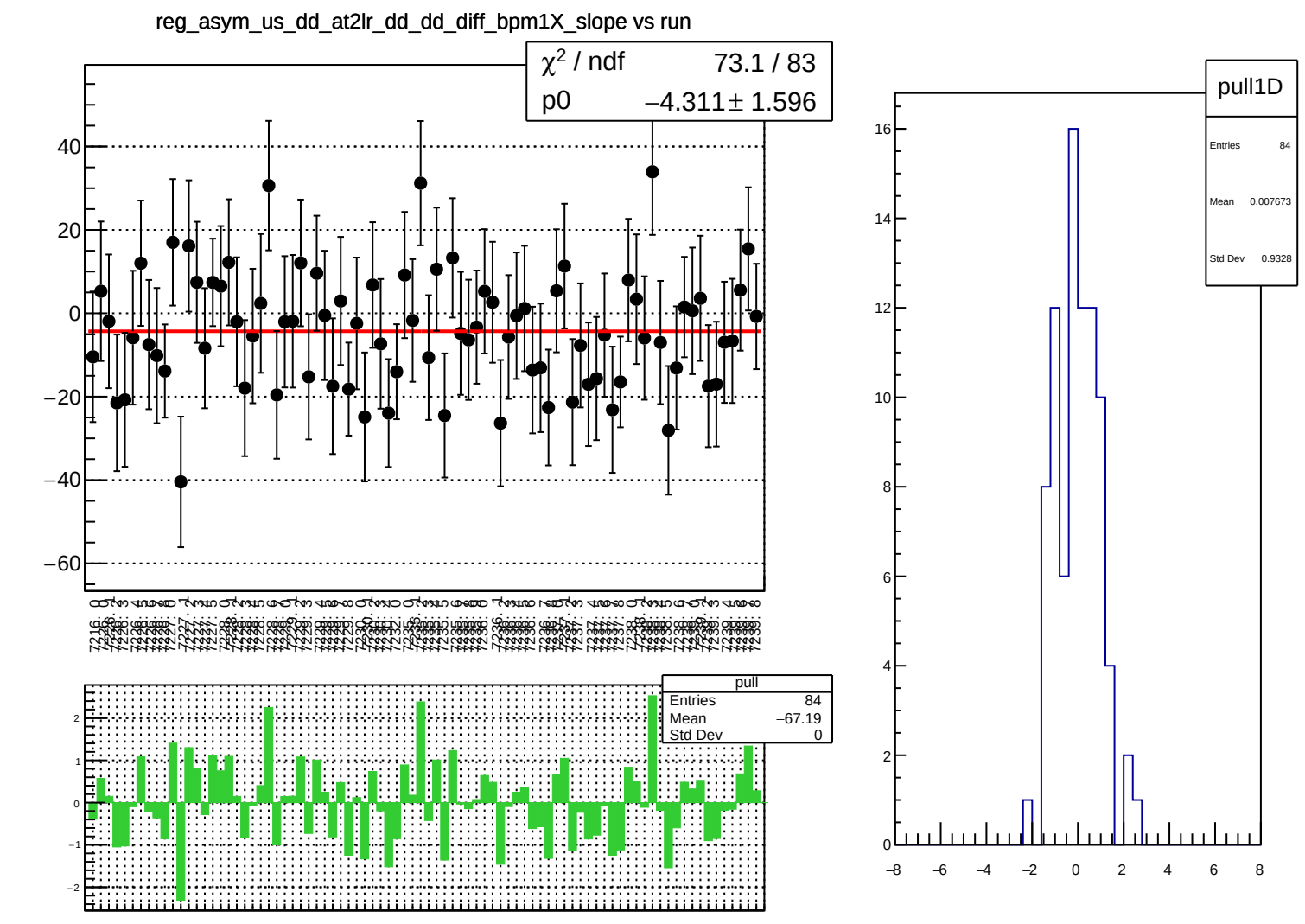

pull1D
Entries 84
Mean −0.01971
Std Dev 1.002

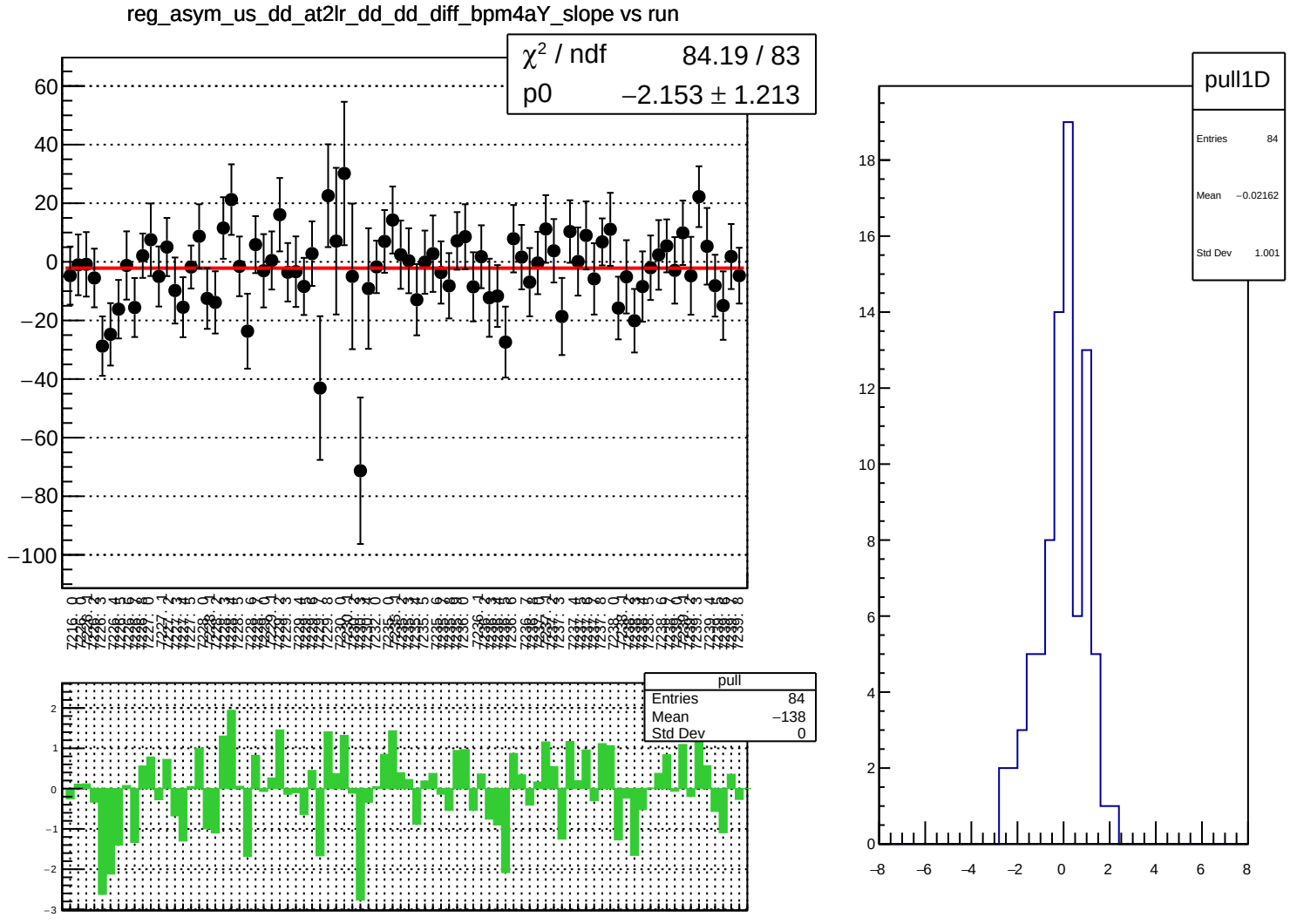

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 54.97 / 83
p0 −4.19 ± 2.111
pull
Entries 84
Mean 468.1
Std Dev 0

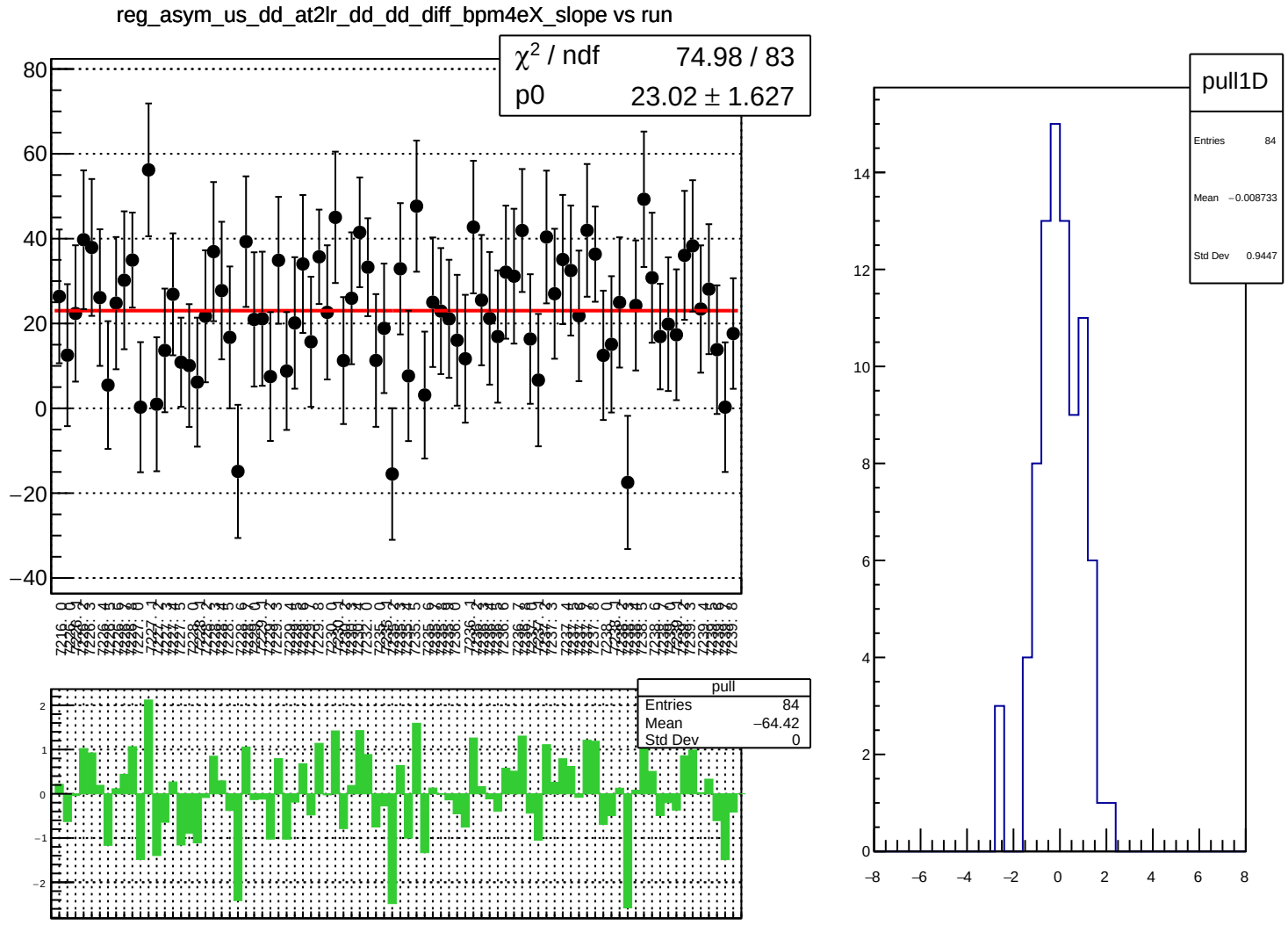

pull1D
Entries 84
Mean 0.007677
Std Dev 0.8089

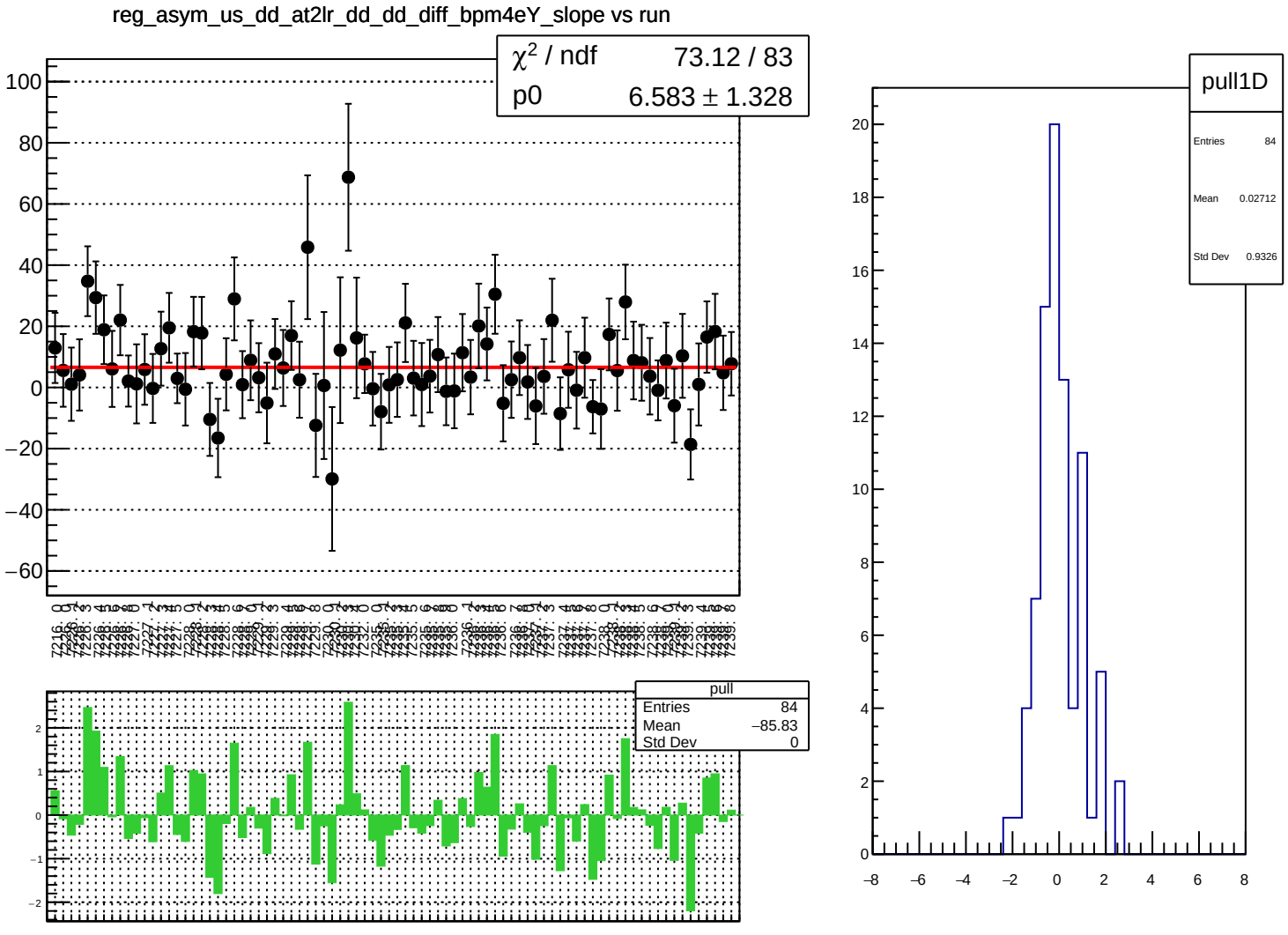

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 60.44 / 83
p0 5.441 ± 0.0888
pull
Entries 84
Mean −335.8
Std Dev 0

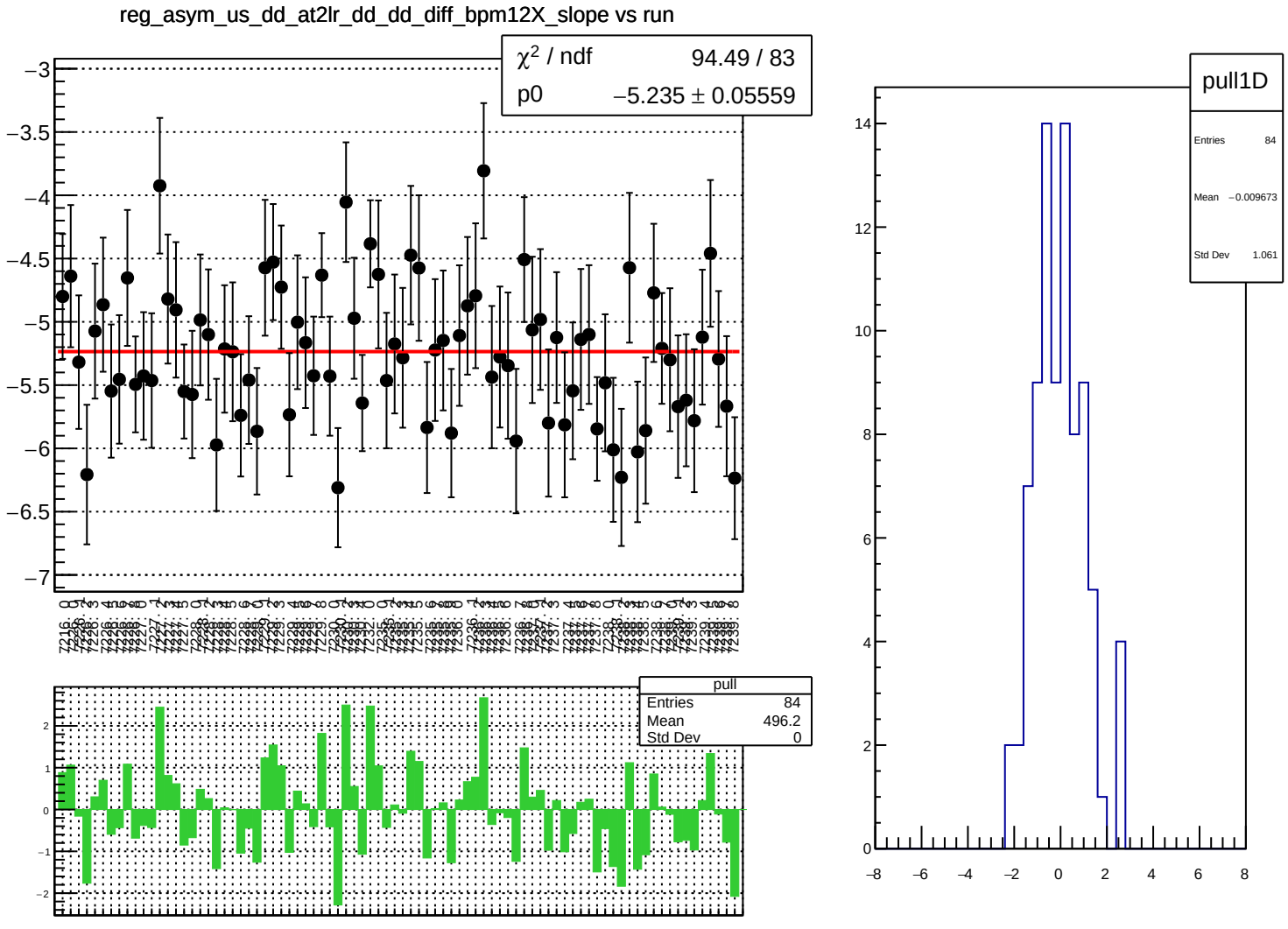

pull1D
Entries 84
Mean 0.005288
Std Dev 0.8482

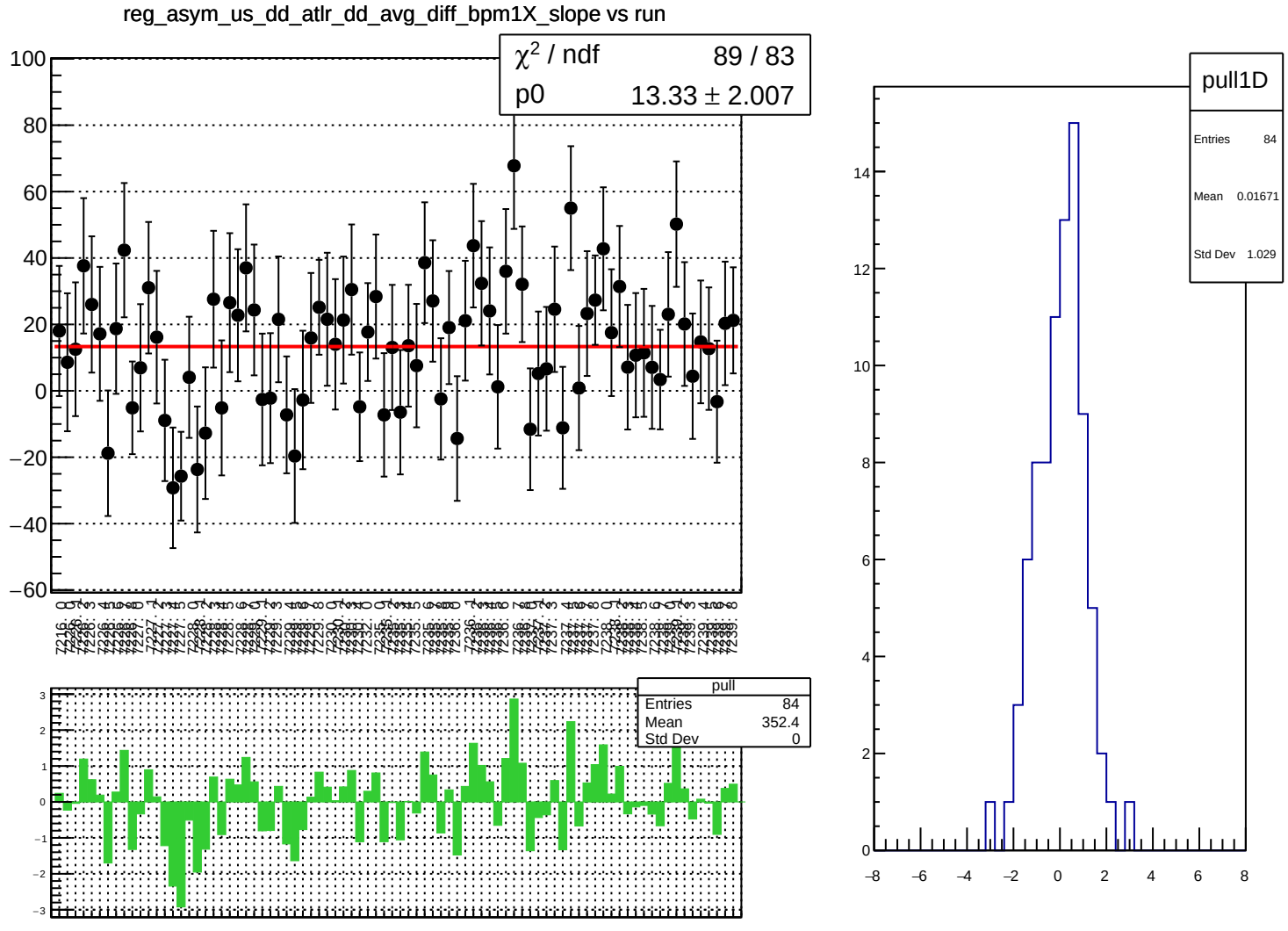

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 73.1 / 83
p0 −4.311 ± 1.596
pull
Entries 84
Mean −67.19
Std Dev 0
pull1D
Entries 84
Mean 0.007673
Std Dev 0.9328

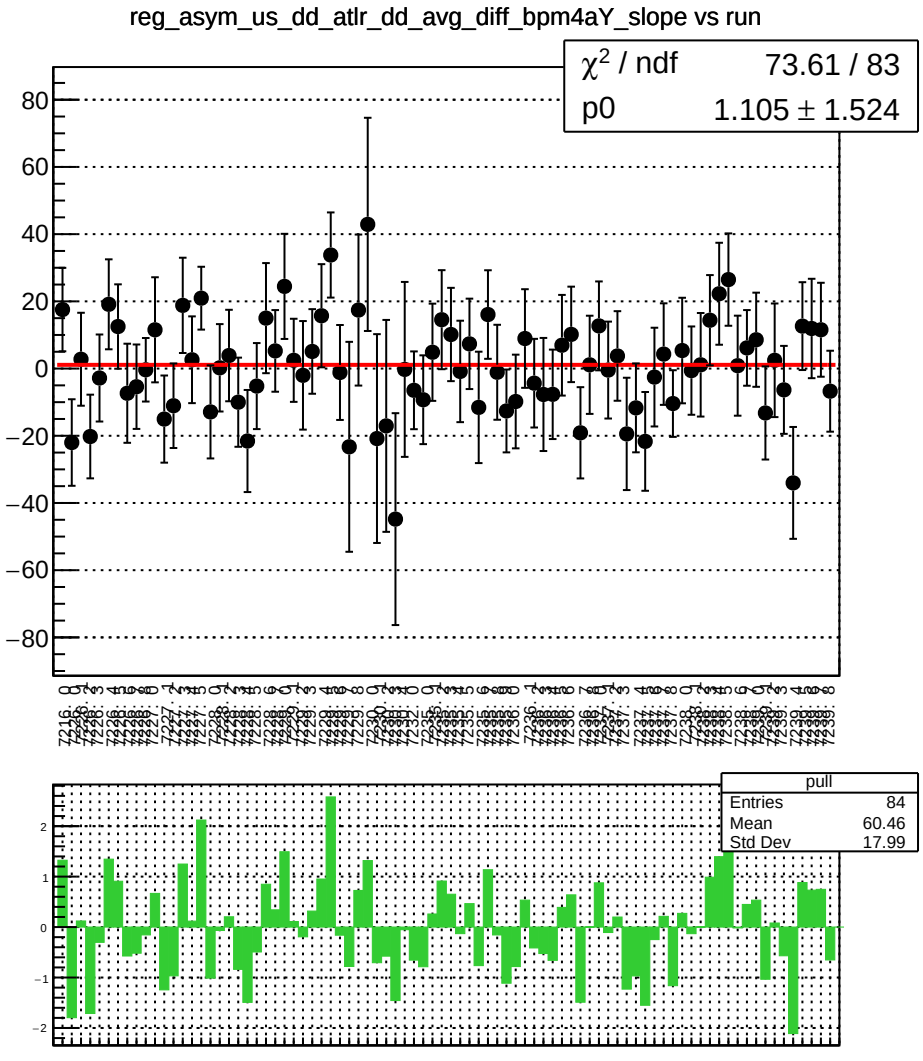

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 84.19 / 83
p0 −2.153 ± 1.213
pull
Entries 84
Mean −138
Std Dev 0
pull1D
Entries 84
Mean −0.02162
Std Dev 1.001

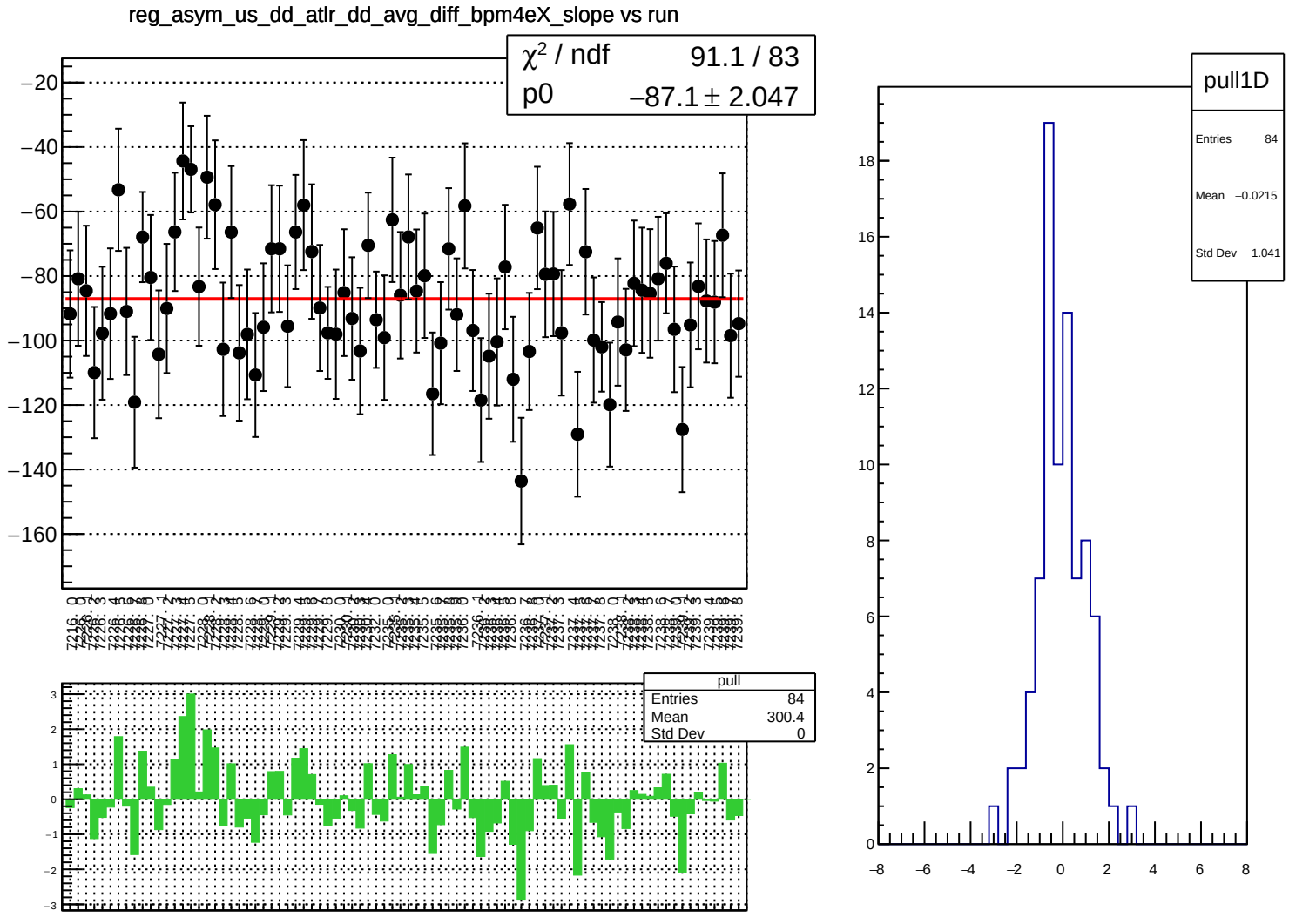

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 74.98 / 83
p0 23.02 ± 1.627
pull
Entries 84
Mean −64.42
Std Dev 0
pull1D
Entries 84
Mean −0.008733
Std Dev 0.9447

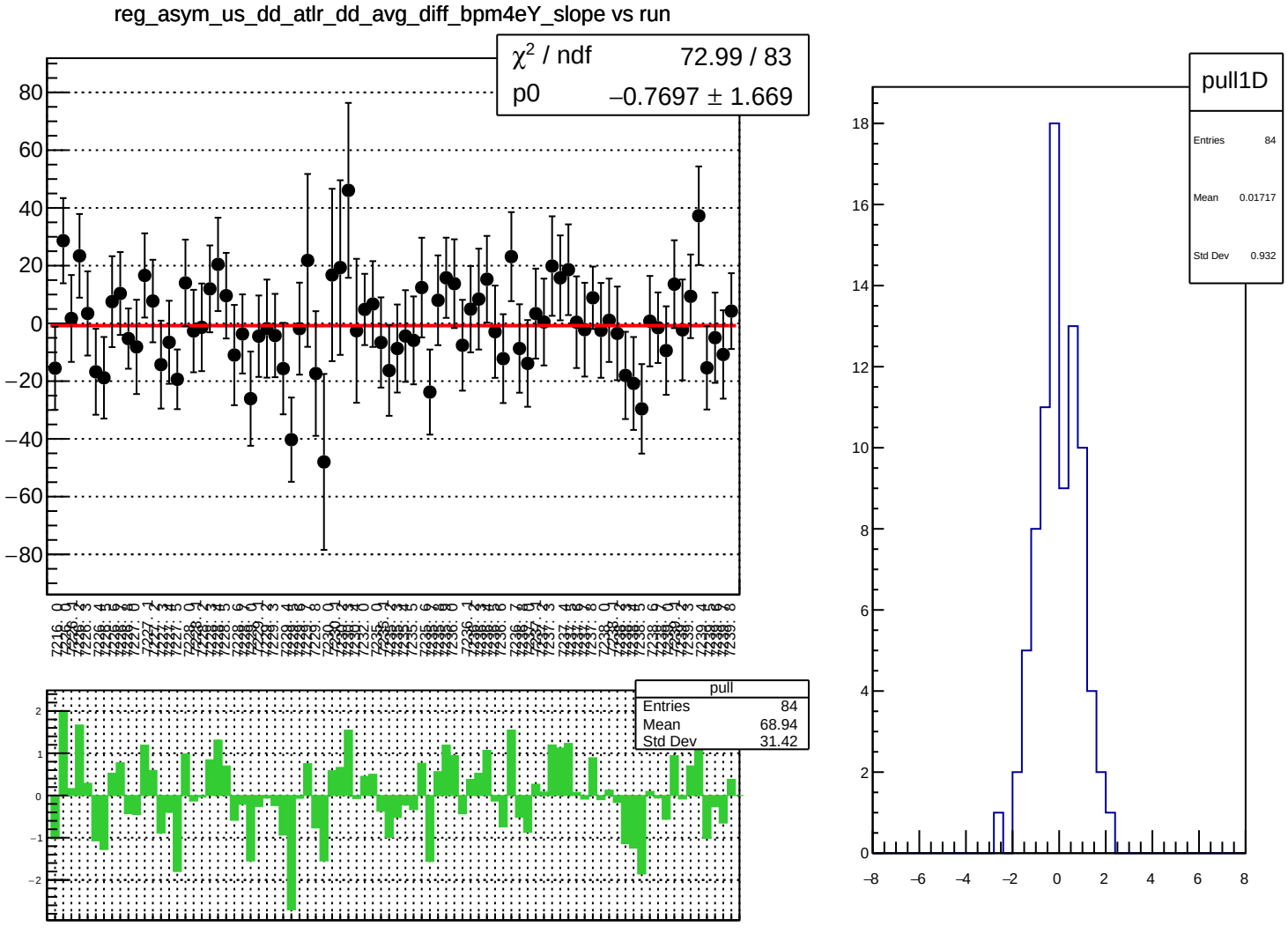

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 73.12 / 83
p0 6.583 ± 1.328
pull
Entries 84
Mean −85.83
Std Dev 0
pull1D
Entries 84
Mean 0.02712
Std Dev 0.9326

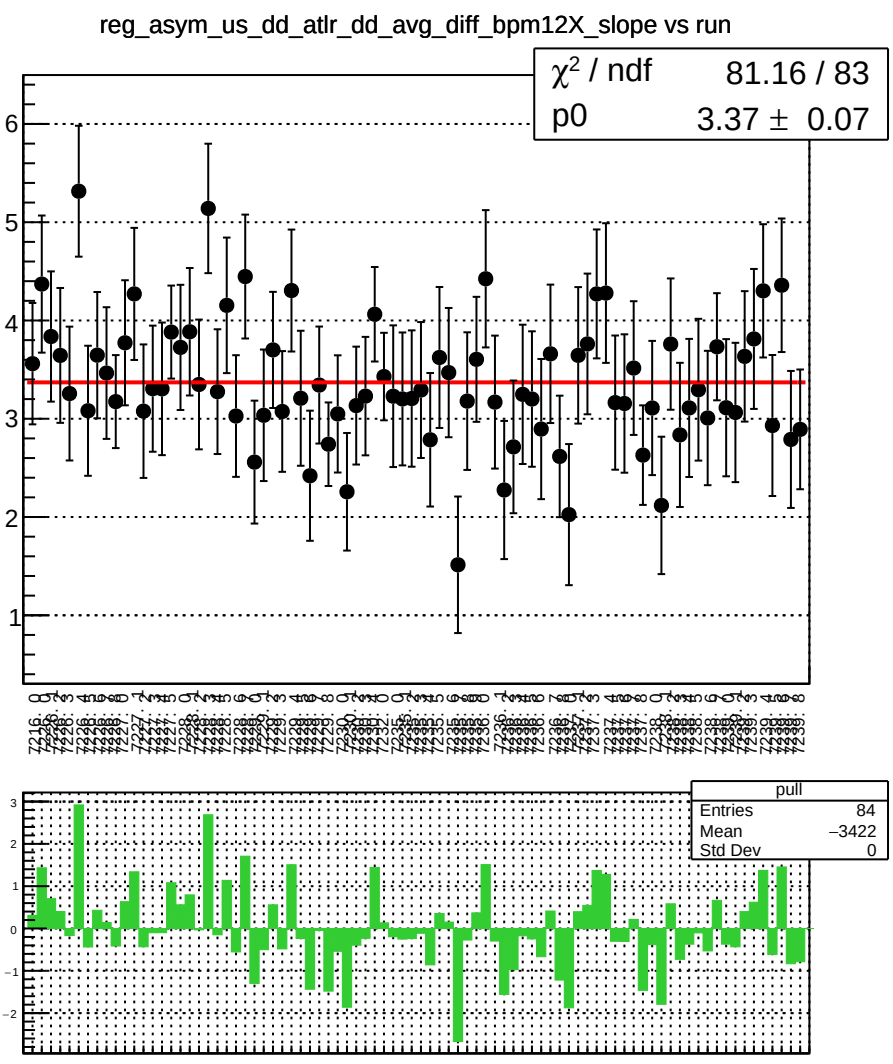

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 94.49 / 83
p0 −5.235 ± 0.05559
pull
Entries 84
Mean 496.2
Std Dev 0
pull1D
Entries 84
Mean −0.009673
Std Dev 1.061

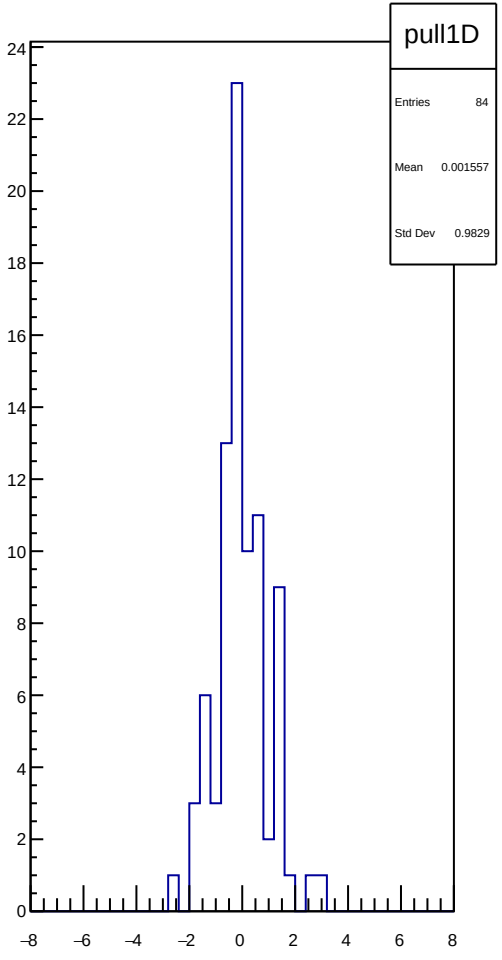

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 89 / 83
p0 13.33 ± 2.007
pull
Entries 84
Mean 352.4
Std Dev 0
pull1D
Entries 84
Mean 0.01671
Std Dev 1.029

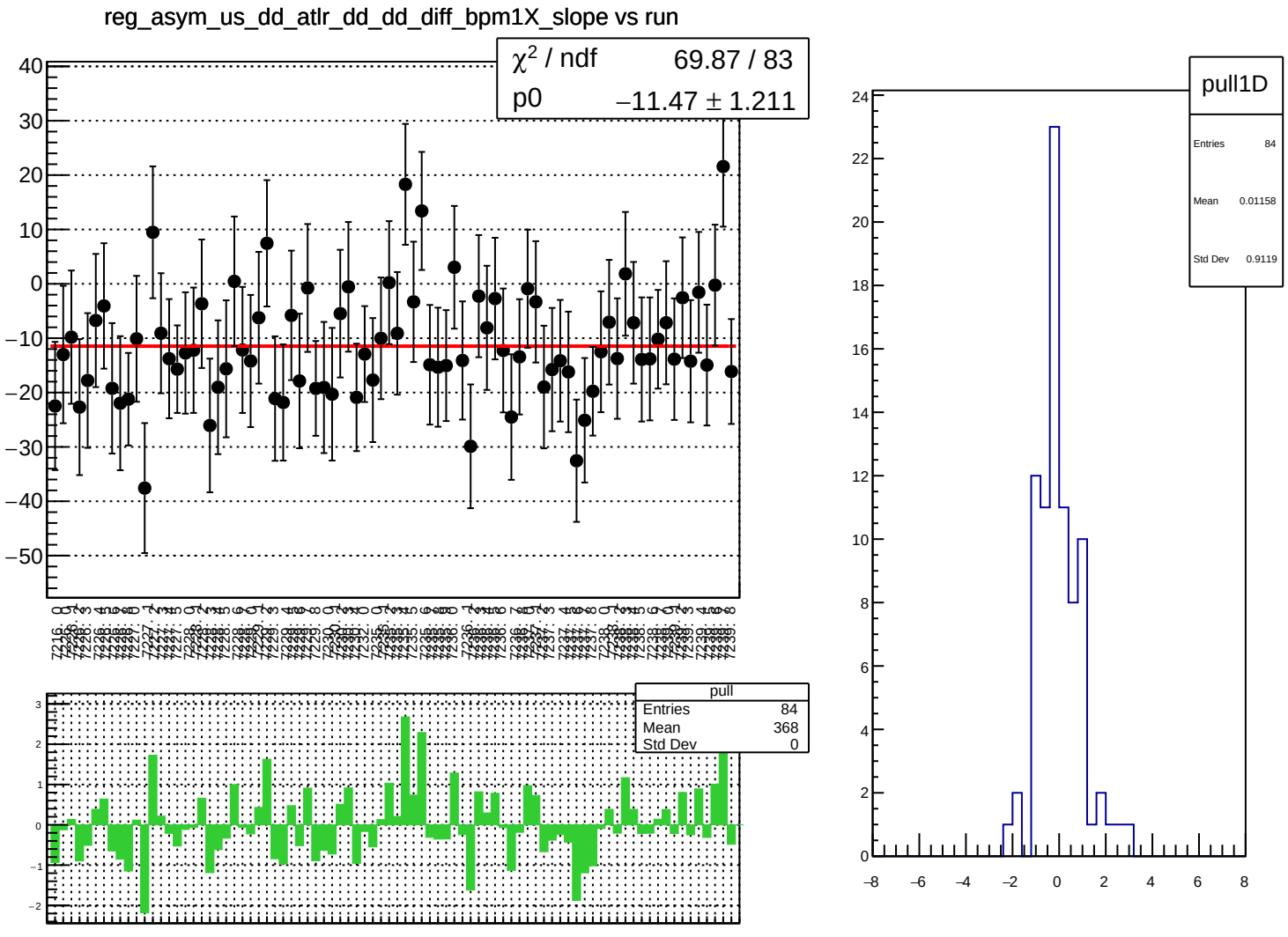

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 73.61 / 83
p0 1.105 ± 1.524
pull
Entries 84
Mean 60.46
Std Dev 17.99
pull1D
Entries 84
Mean −0.01673
Std Dev 0.936

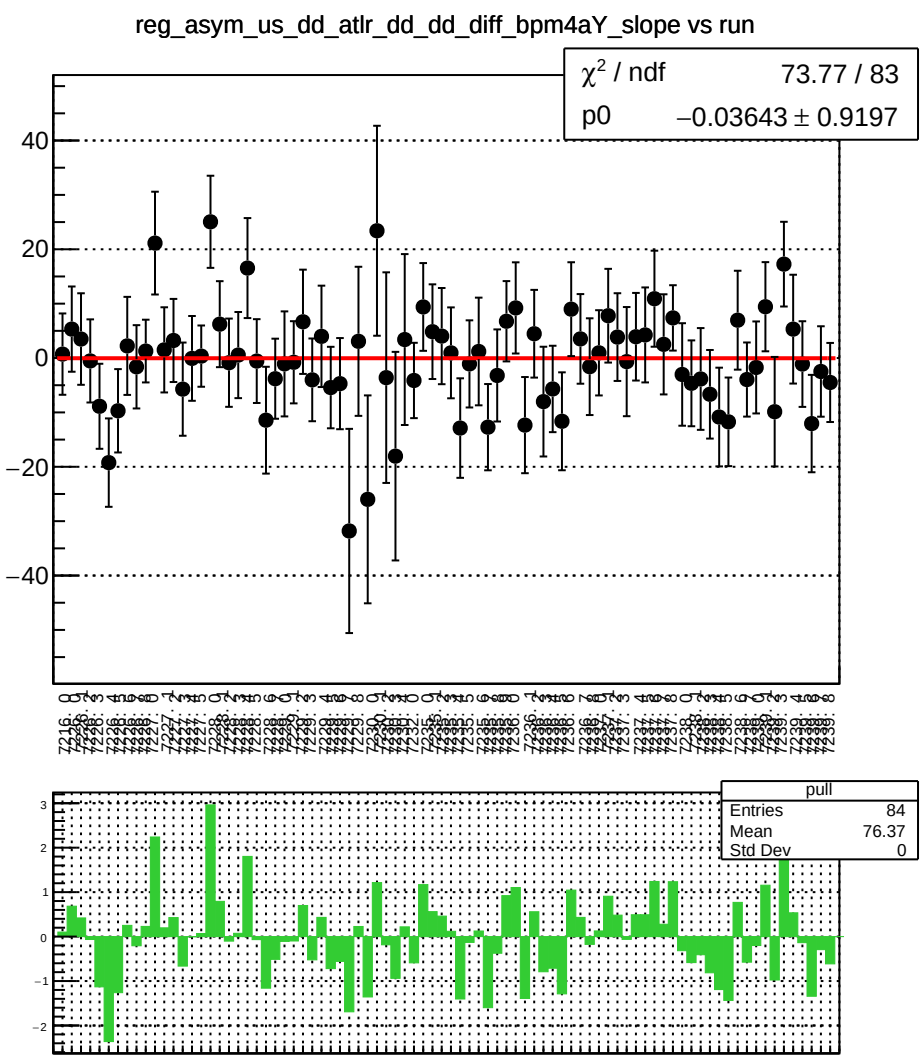

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 91.1 / 83
p0 −87.1 ± 2.047
pull
Entries 84
Mean 300.4
Std Dev 0
pull1D
Entries 84
Mean −0.0215
Std Dev 1.041

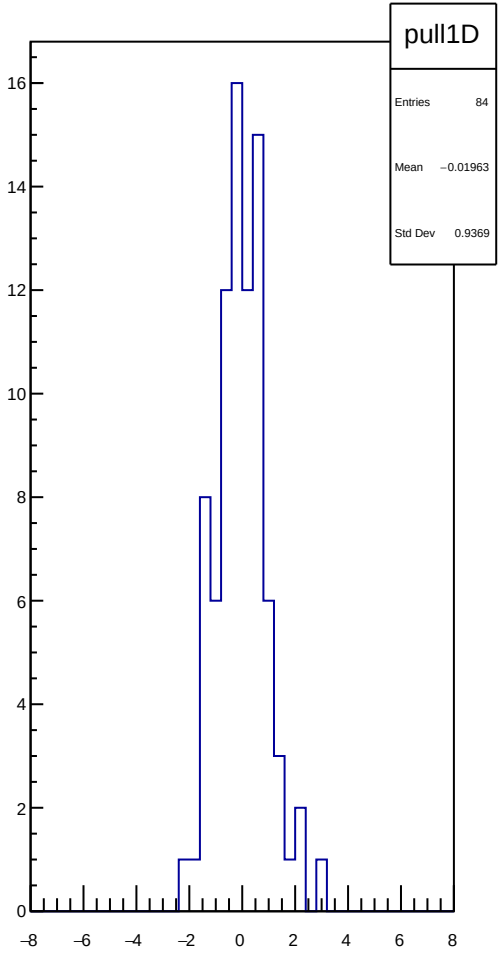

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 72.99 / 83
p0 −0.7697 ± 1.669
pull
Entries 84
Mean 68.94
Std Dev 31.42
pull1D
Entries 84
Mean 0.01717
Std Dev 0.932

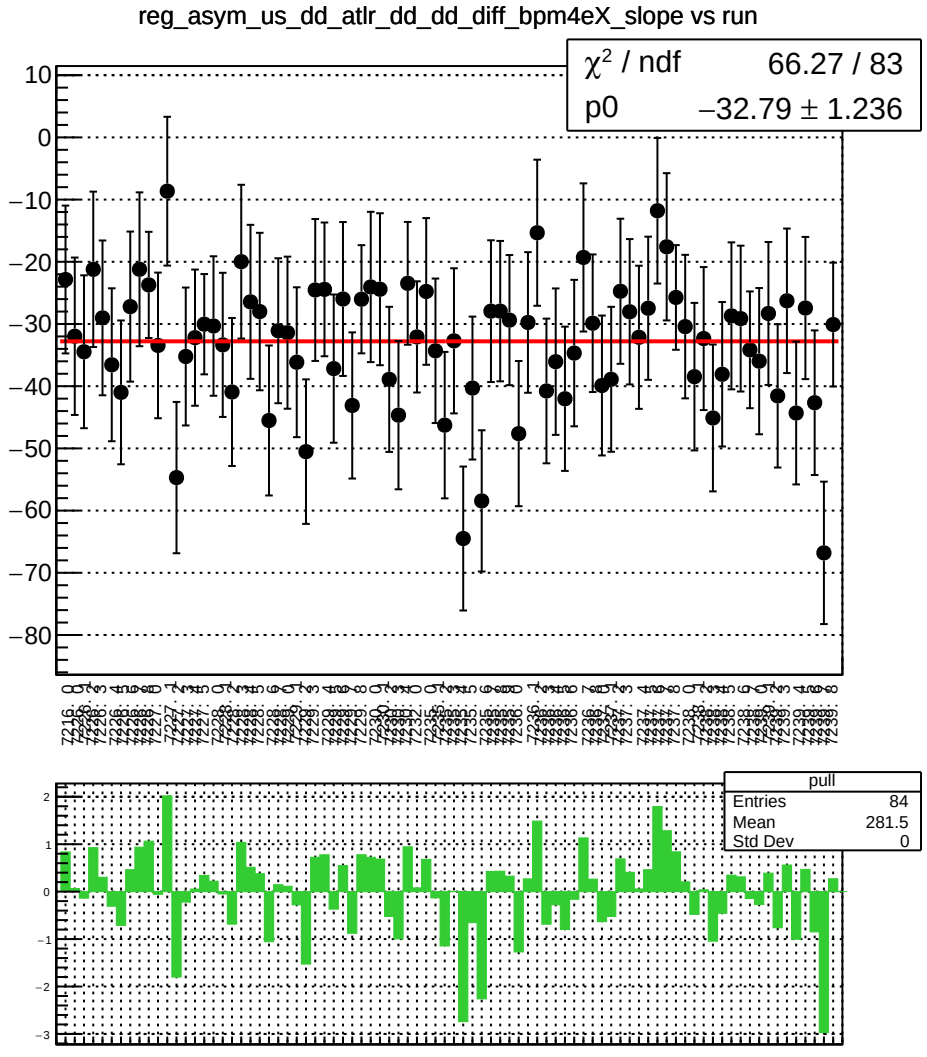

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 81.16 / 83
p0 3.37 ± 0.07
pull
Entries 84
Mean −3422
Std Dev 0

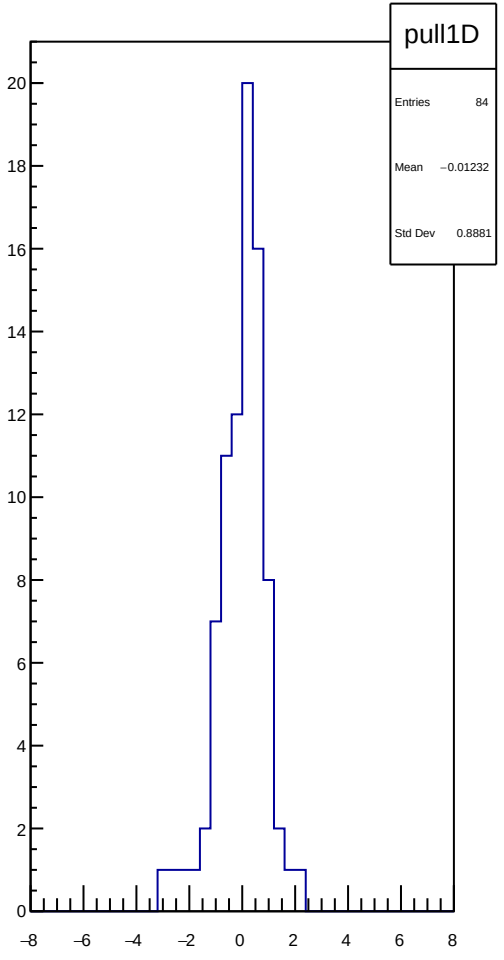

pull1D
Entries 84
Mean 0.001557
Std Dev 0.9829

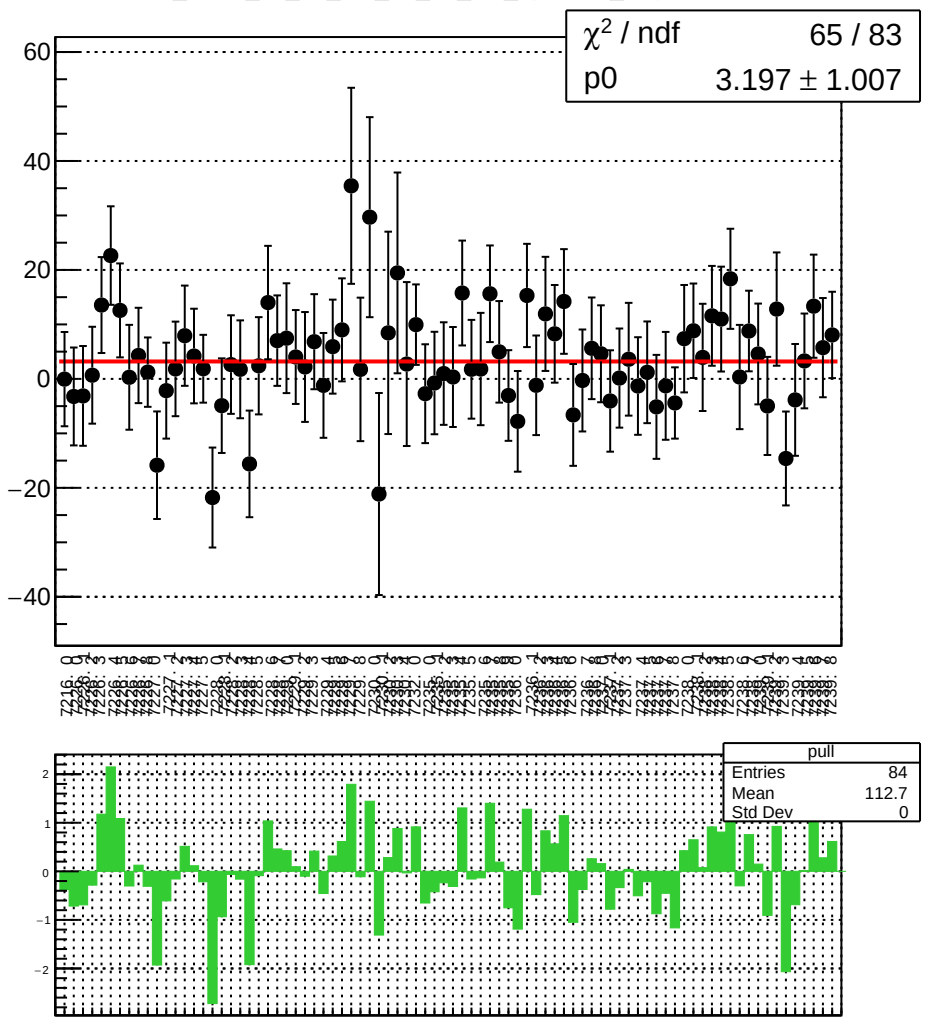

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 69.87 / 83
p0 −11.47 ± 1.211
pull
Entries 84
Mean 368
Std Dev 0
pull1D
Entries 84
Mean 0.01158
Std Dev 0.9119

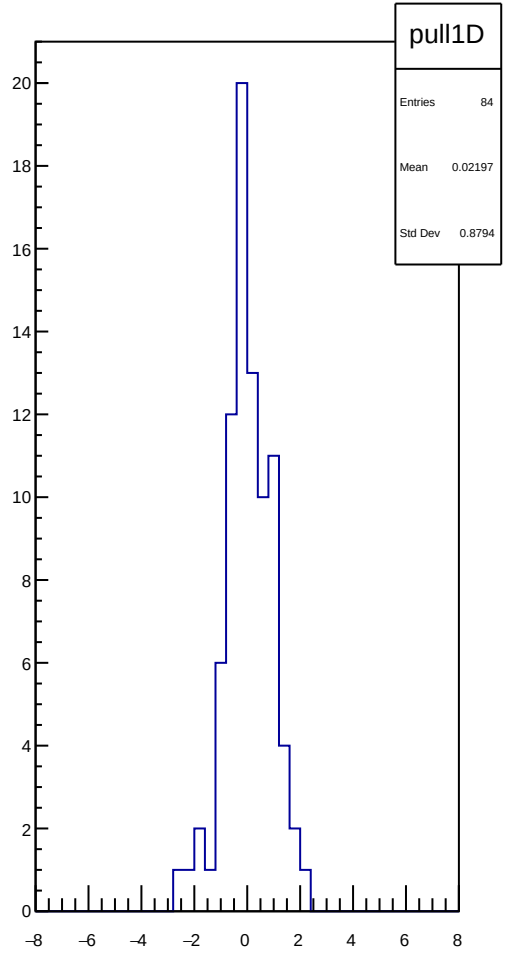

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 73.77 / 83
p0 −0.03643 ± 0.9197
pull
Entries 84
Mean 76.37
Std Dev 0

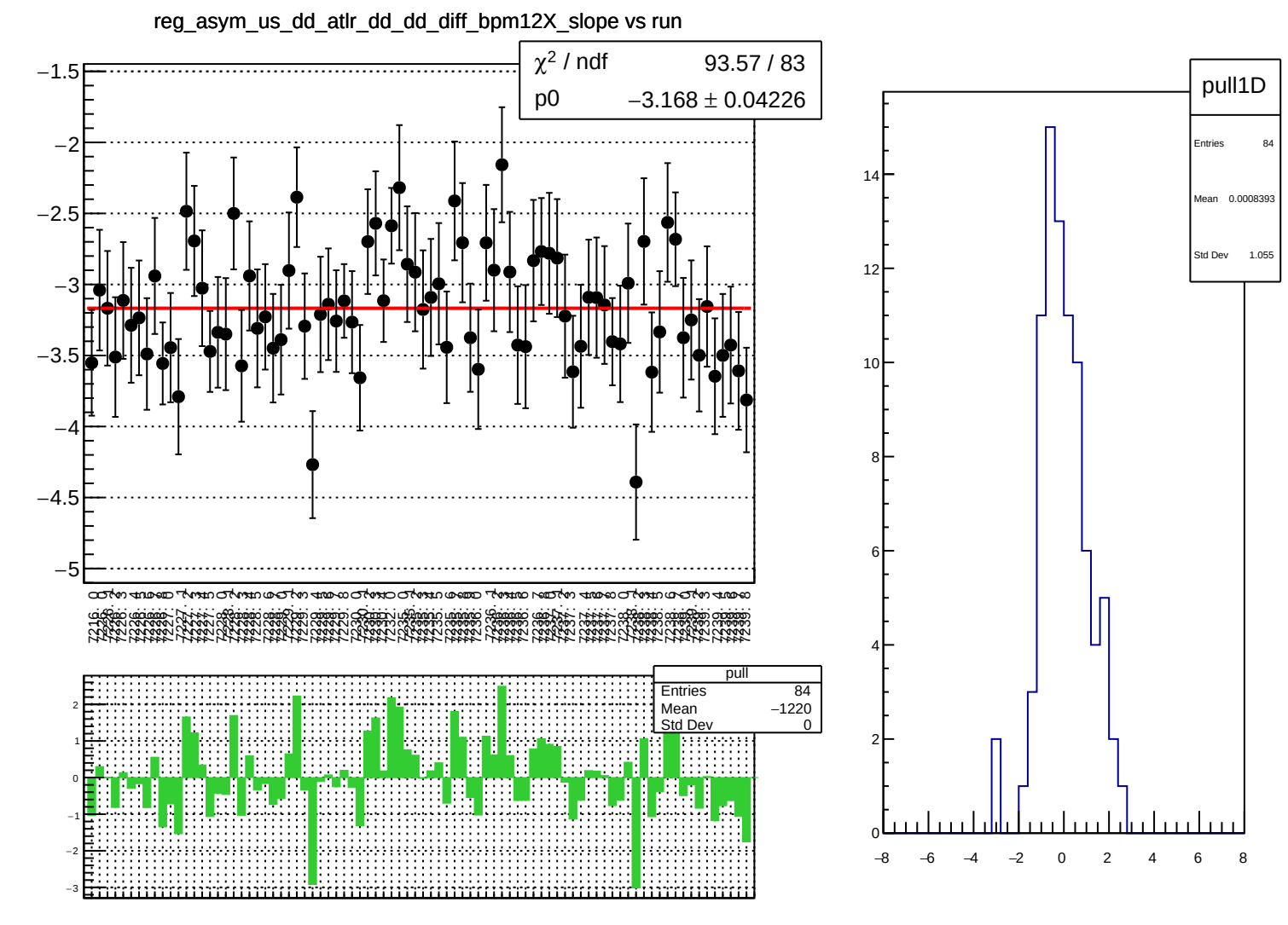

pull1D
Entries 84
Mean −0.01963
Std Dev 0.9369

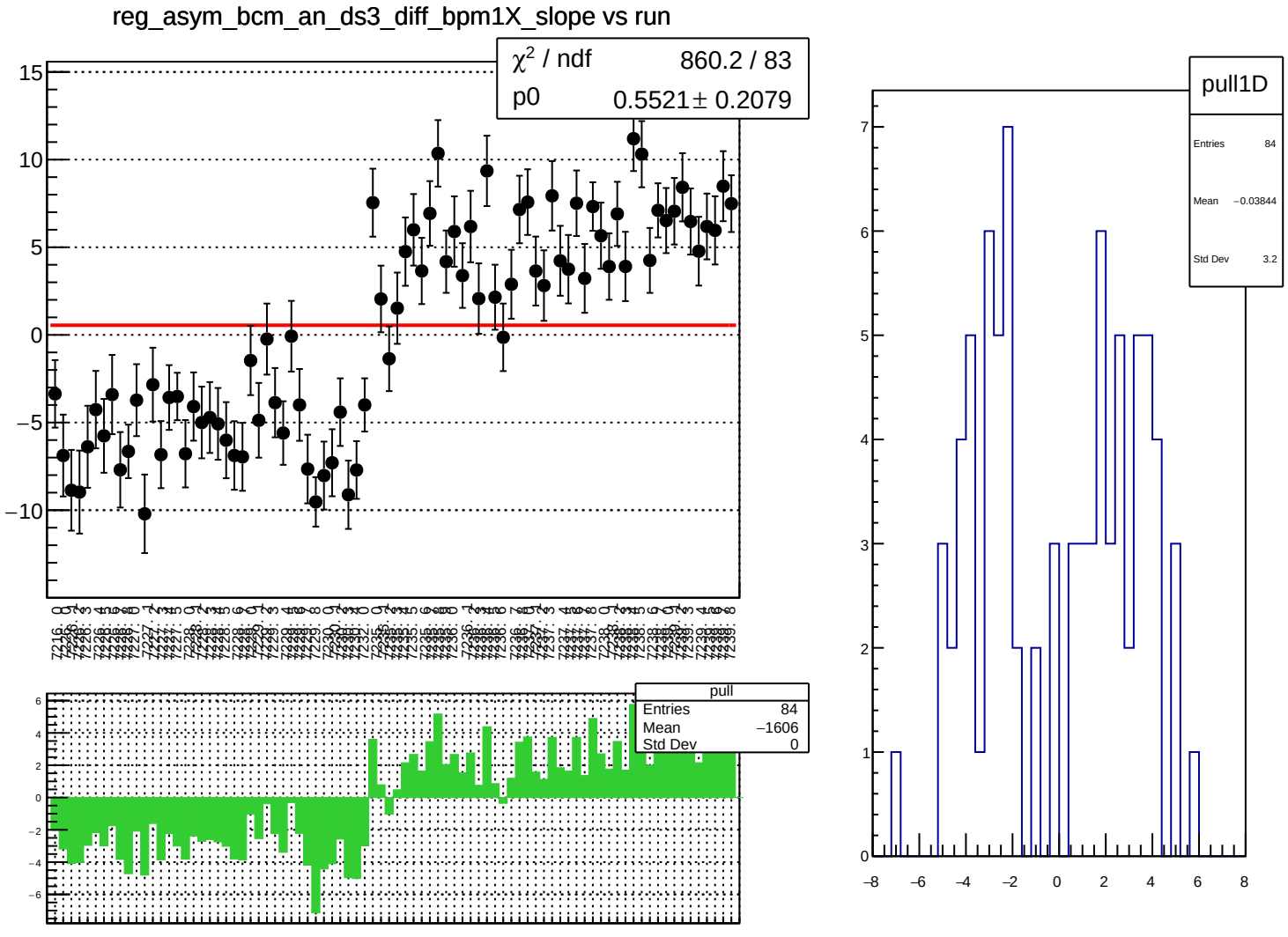

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 66.27 / 83
p0 −32.79 ± 1.236
pull
Entries 84
Mean 281.5
Std Dev 0

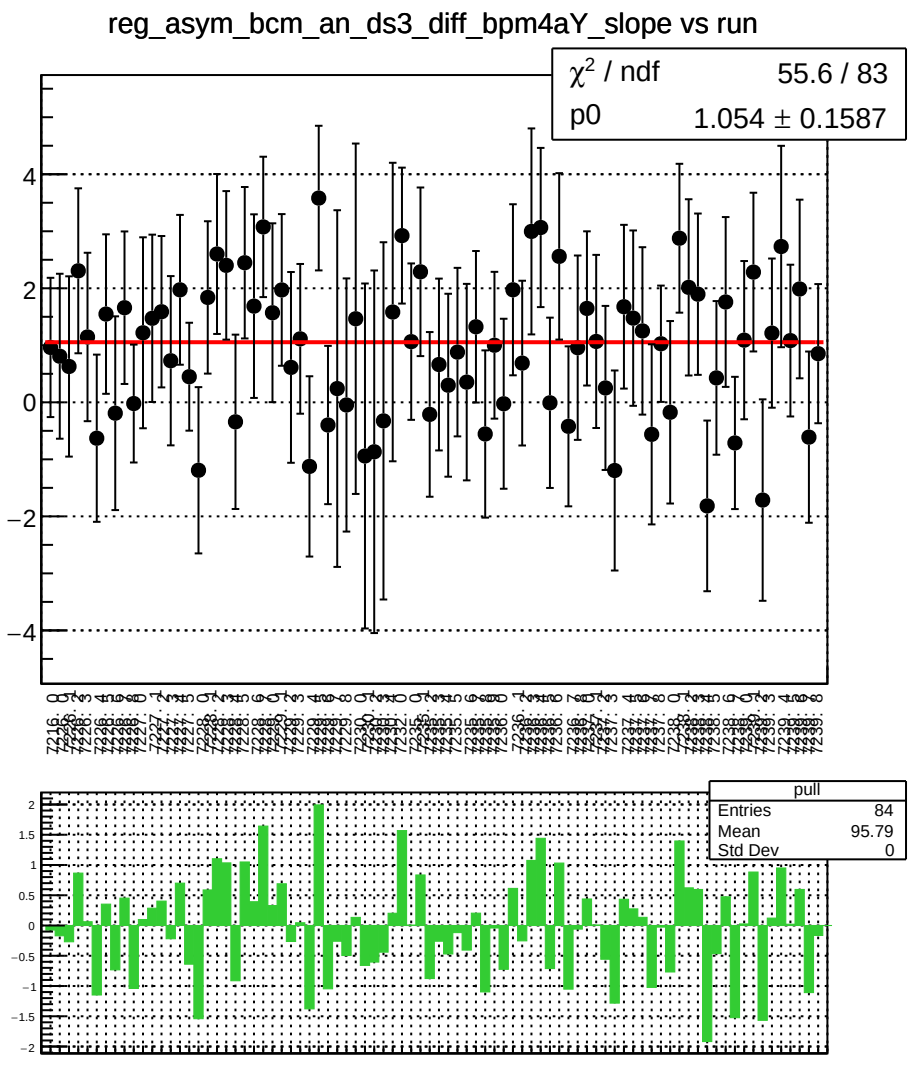

pull1D
Entries 84
Mean −0.01232
Std Dev 0.8881

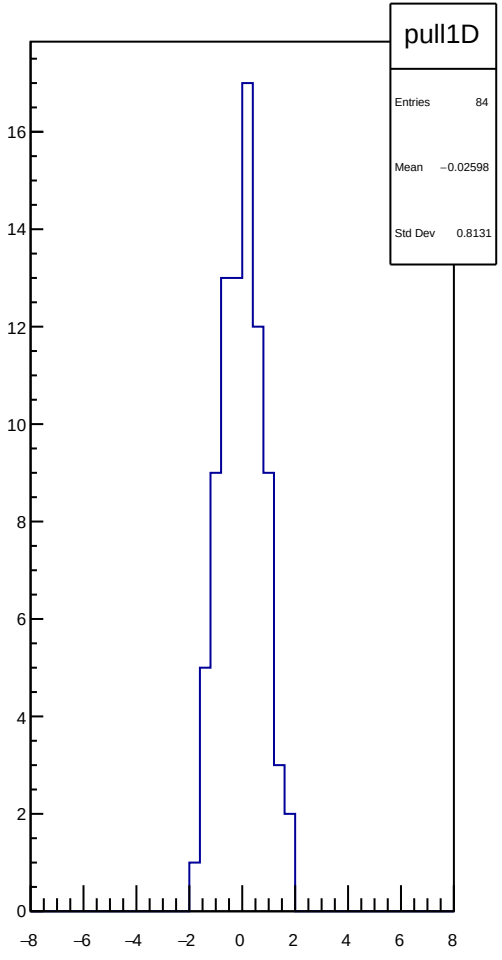

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 65 / 83
p0 3.197 ± 1.007
pull
Entries 84
Mean 112.7
Std Dev 0

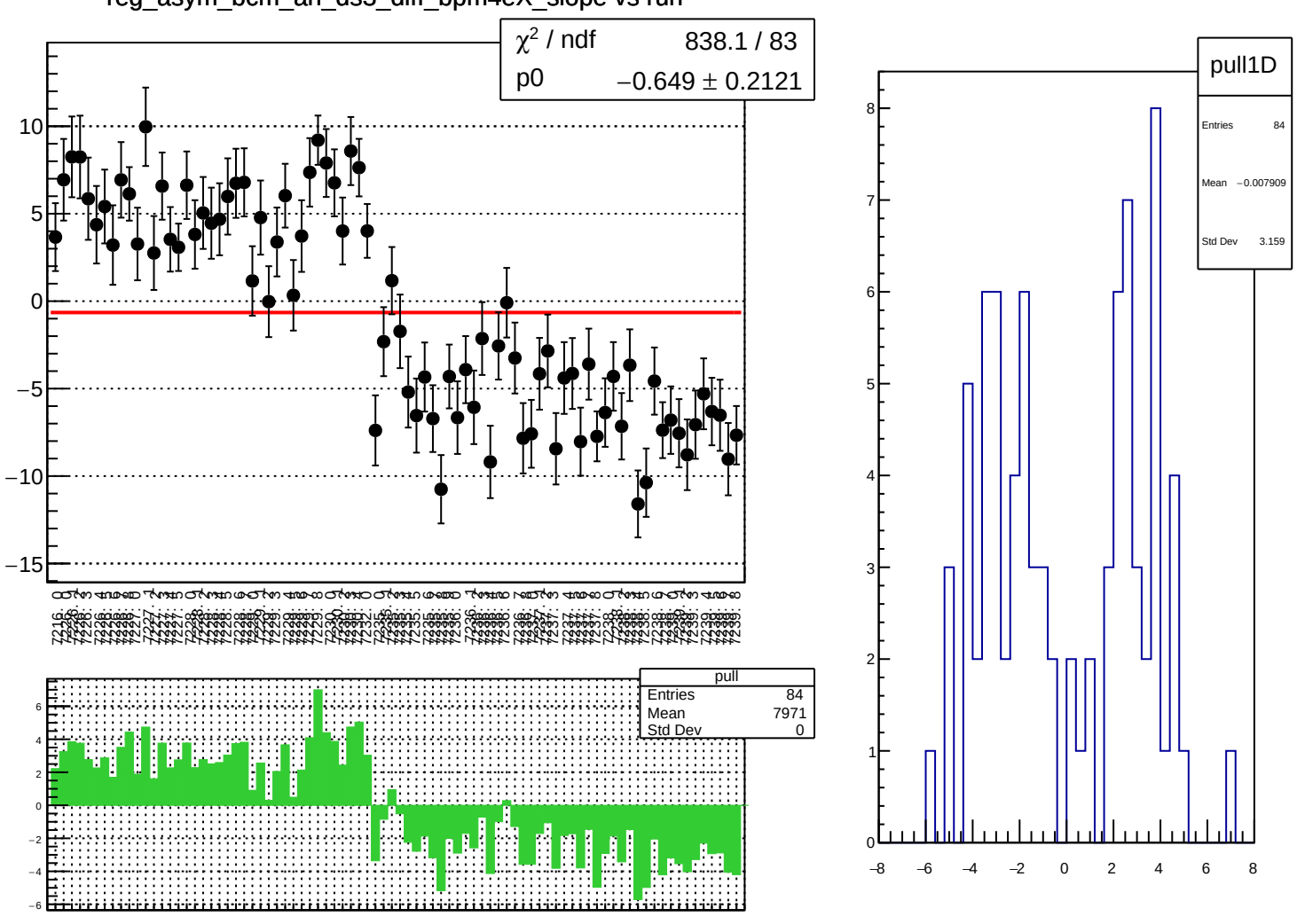

pull1D
Entries 84
Mean 0.02197
Std Dev 0.8794

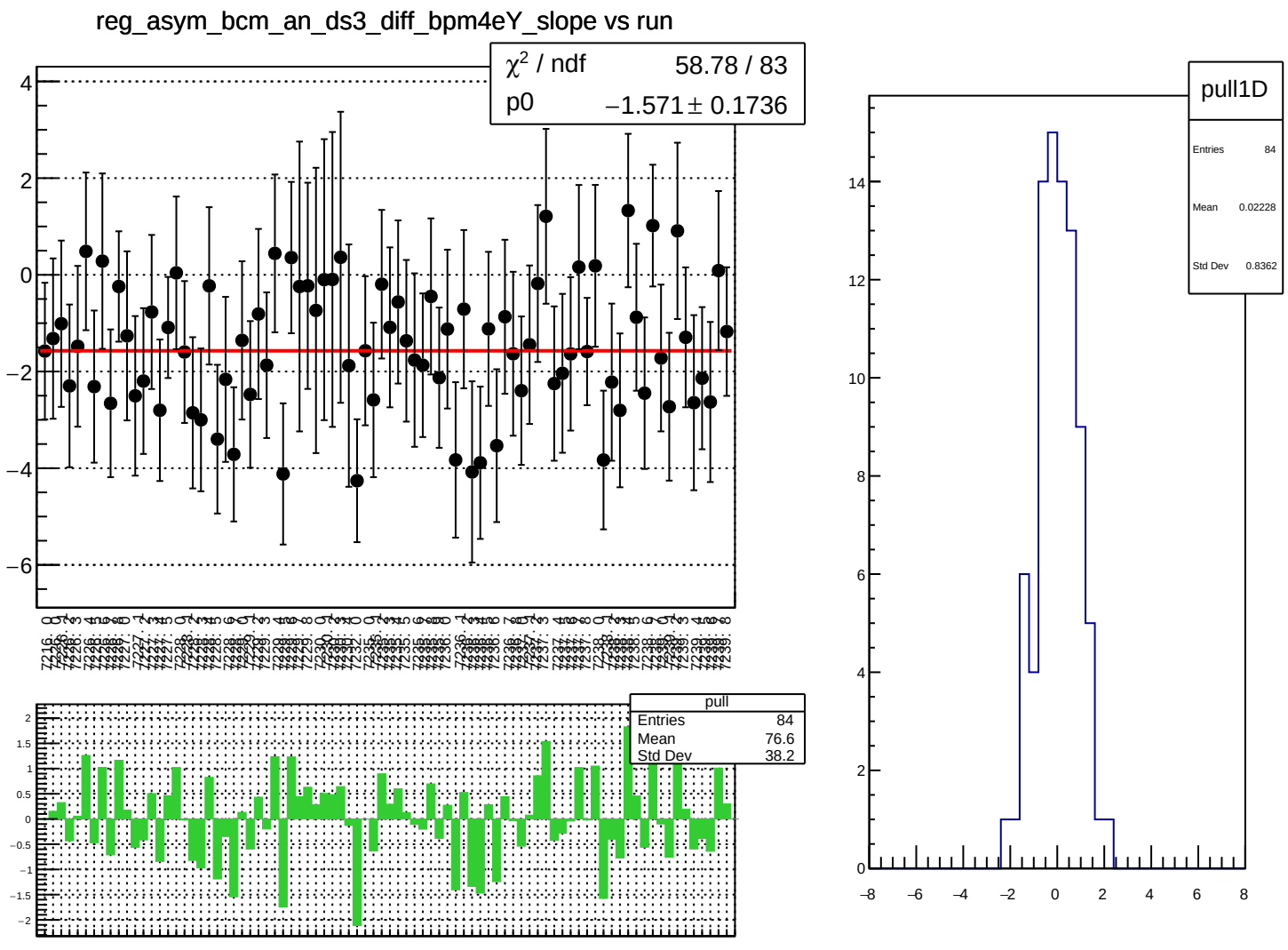

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 93.57 / 83
p0 −3.168 ± 0.04226
pull
Entries 84
Mean −1220
Std Dev 0
pull1D
Entries 84
Mean 0.0008393
Std Dev 1.055

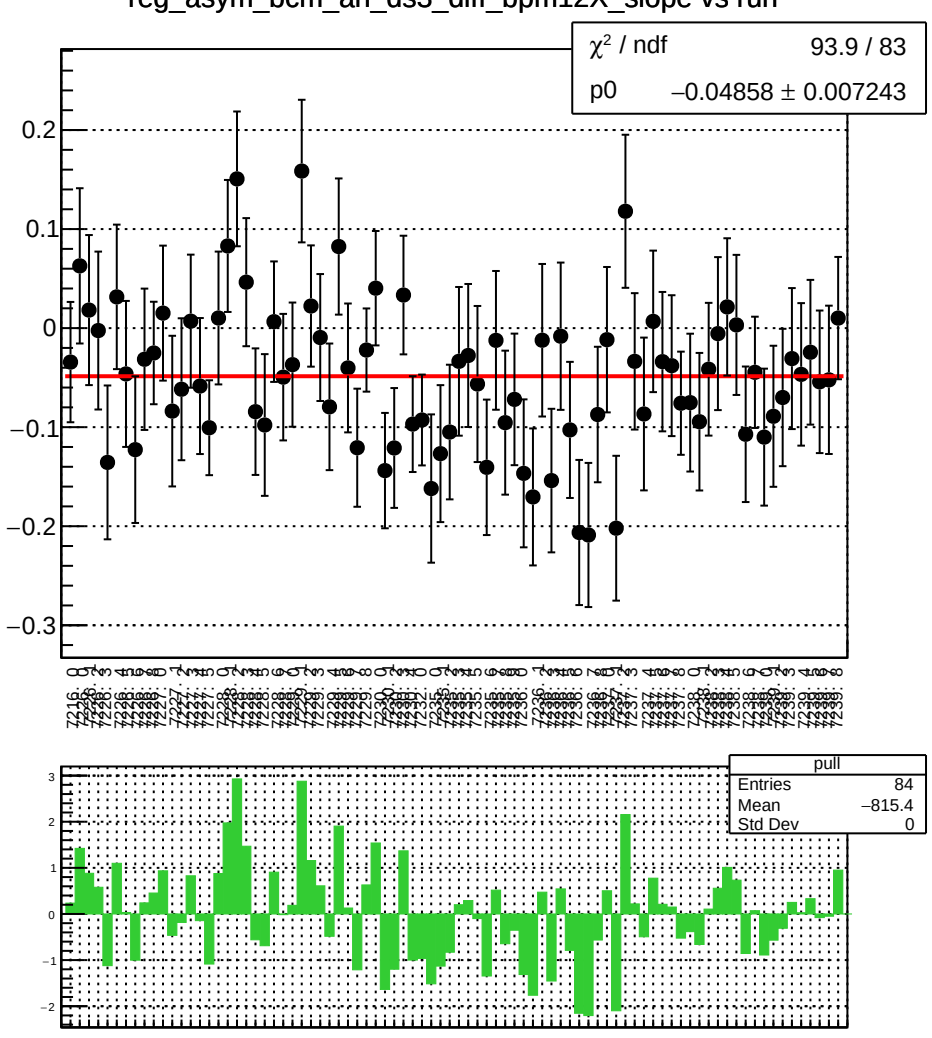

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 860.2 / 83
p0 0.5521 ± 0.2079
pull
Entries 84
Mean −1606
Std Dev 0
pull1D
Entries 84
Mean −0.03844
Std Dev 3.2

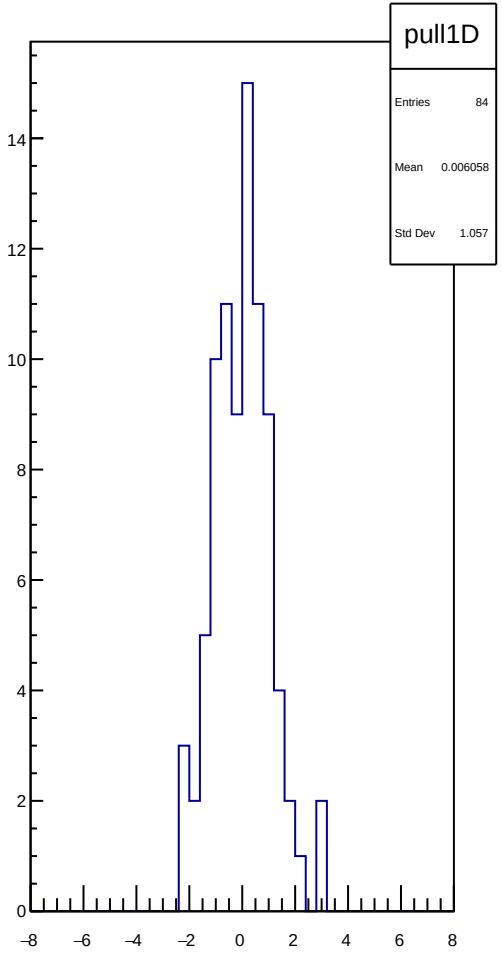

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 55.6 / 83
p0 1.054 ± 0.1587
pull
Entries 84
Mean 95.79
Std Dev 0

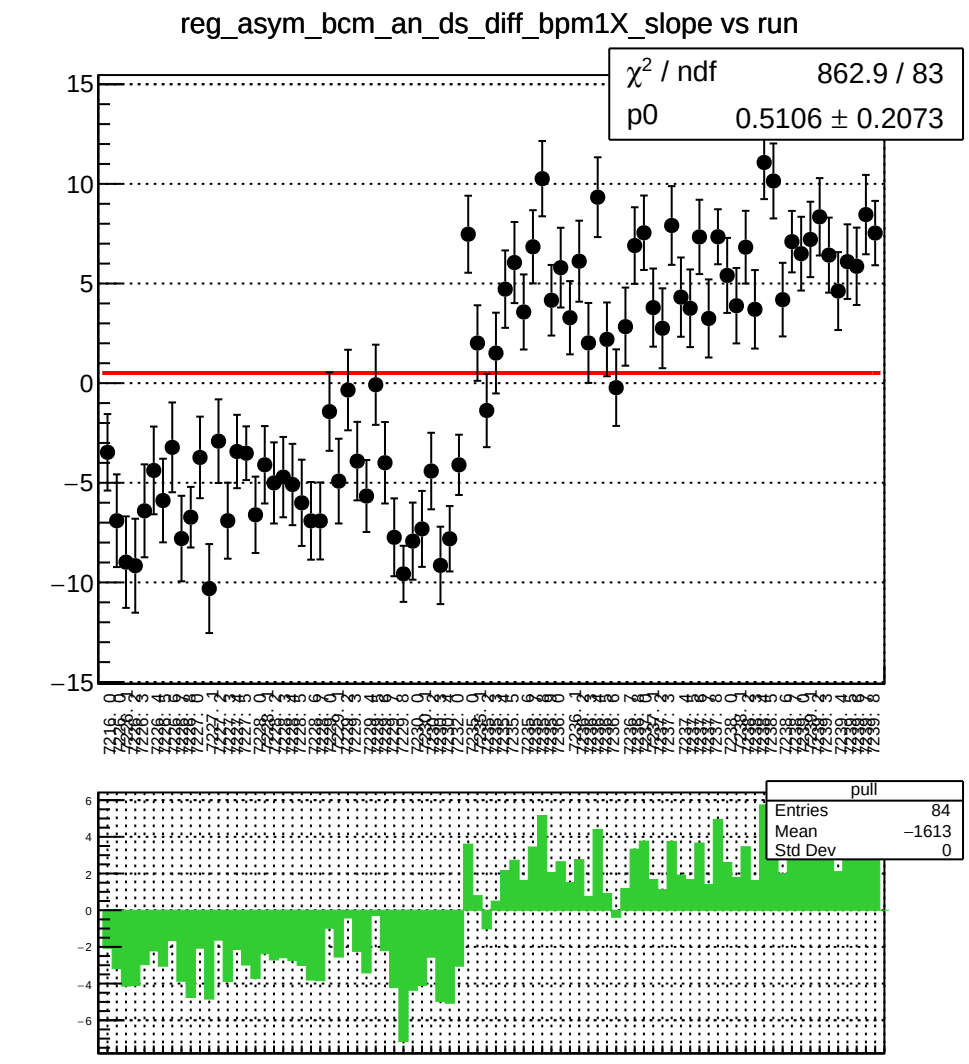

pull1D
Entries 84
Mean −0.02598
Std Dev 0.8131

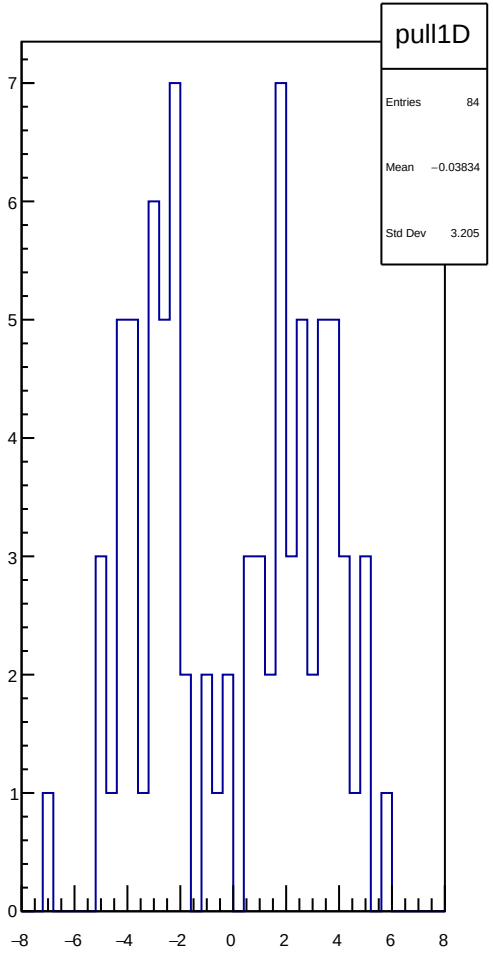

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 838.1 / 83
p0 −0.649 ± 0.2121
pull
Entries 84
Mean 7971
Std Dev 0
pull1D
Entries 84
Mean −0.007909
Std Dev 3.159

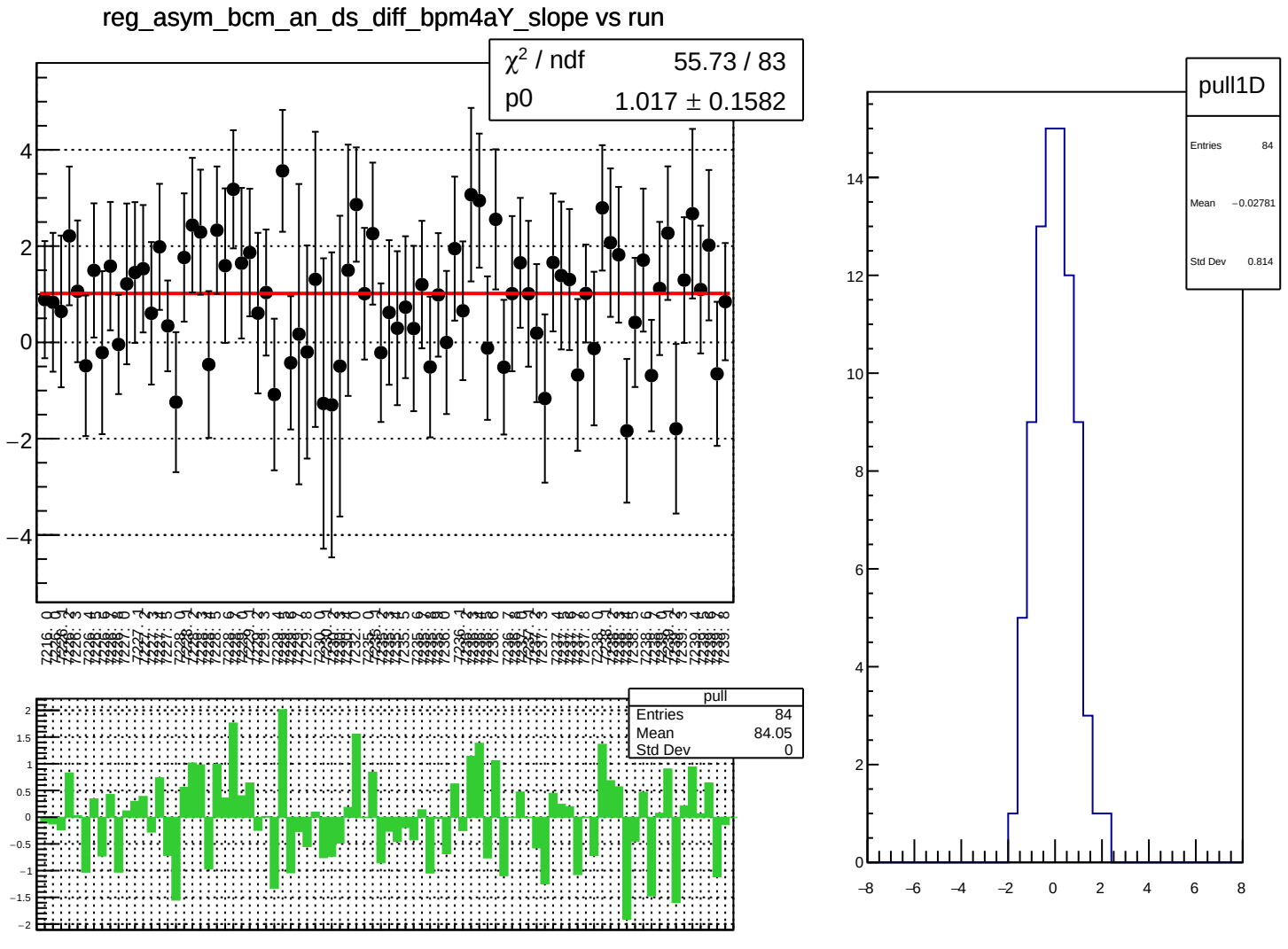

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 58.78 / 83
p0 −1.571 ± 0.1736
pull
Entries 84
Mean 76.6
Std Dev 38.2
pull1D
Entries 84
Mean 0.02228
Std Dev 0.8362

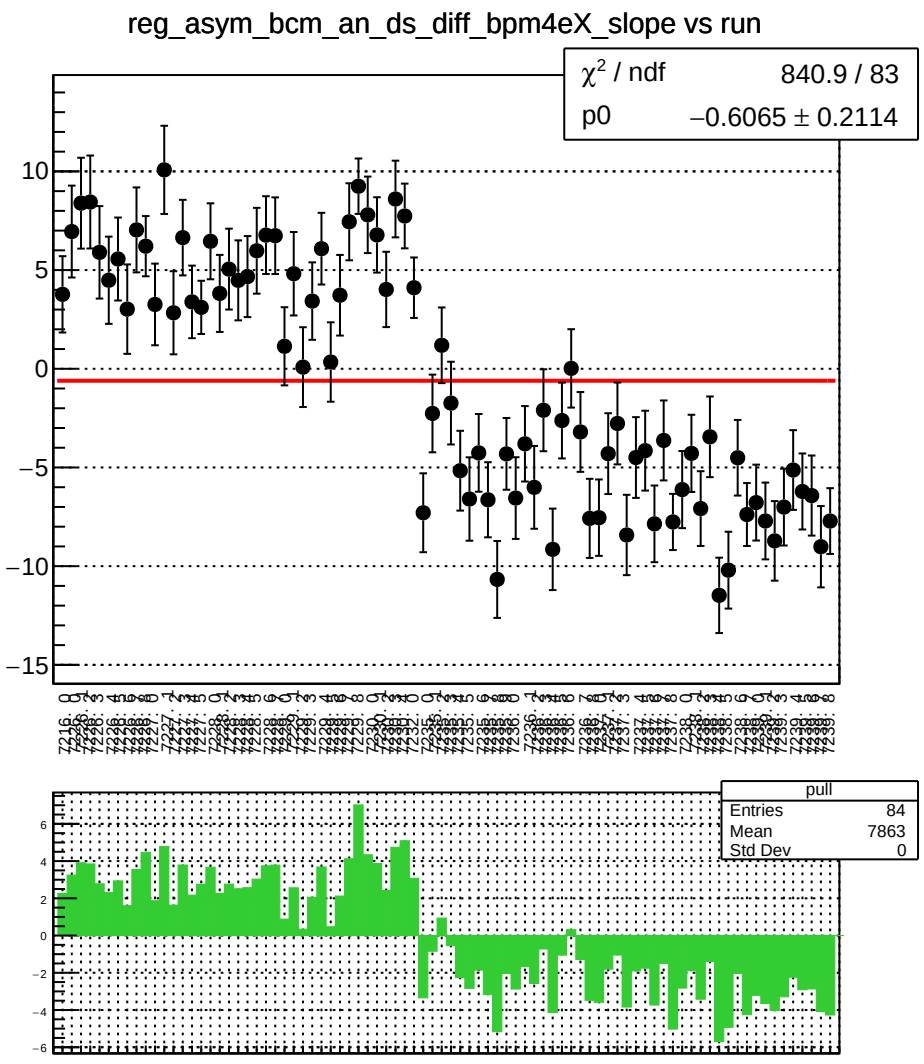

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 93.9 / 83
p0 −0.04858 ± 0.007243
pull
Entries 84
Mean −815.4
Std Dev 0

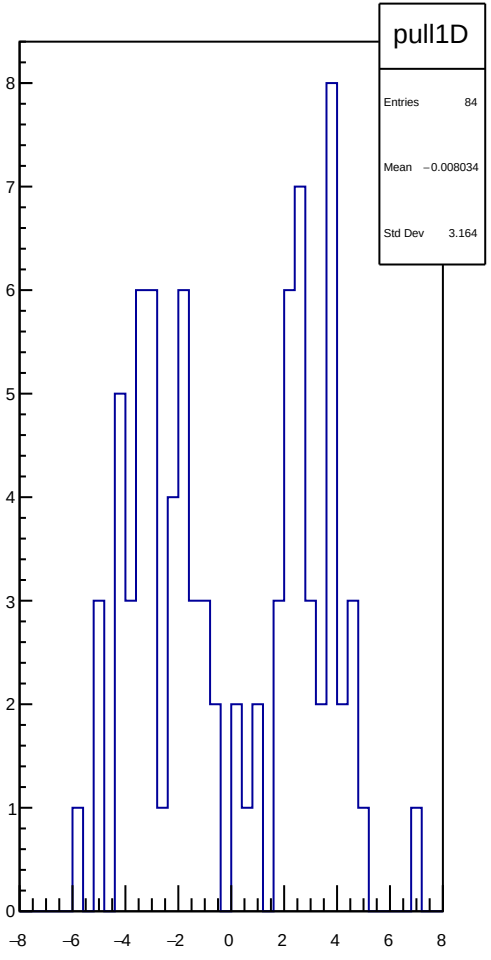

pull1D
Entries 84
Mean 0.006058
Std Dev 1.057

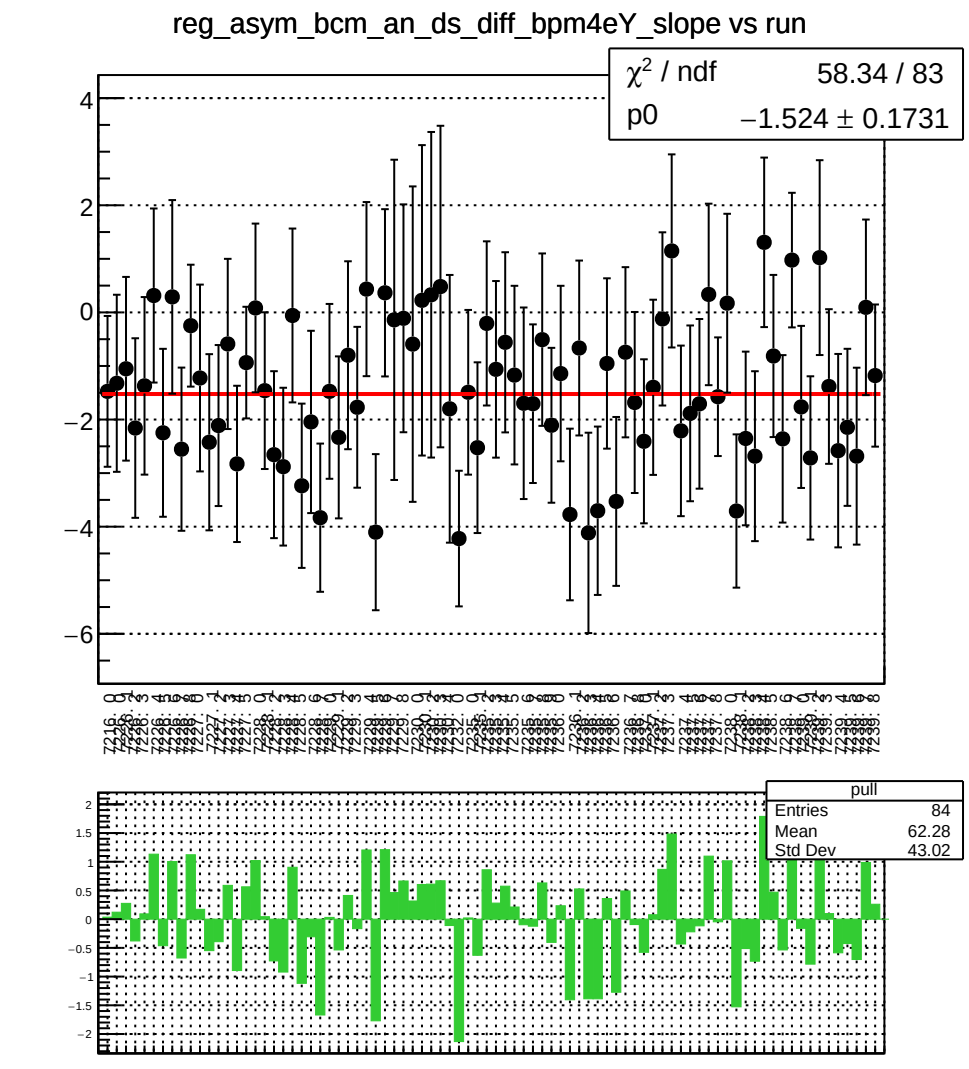

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 862.9 / 83
p0 0.5106 ± 0.2073
pull
Entries 84
Mean −1613
Std Dev 0

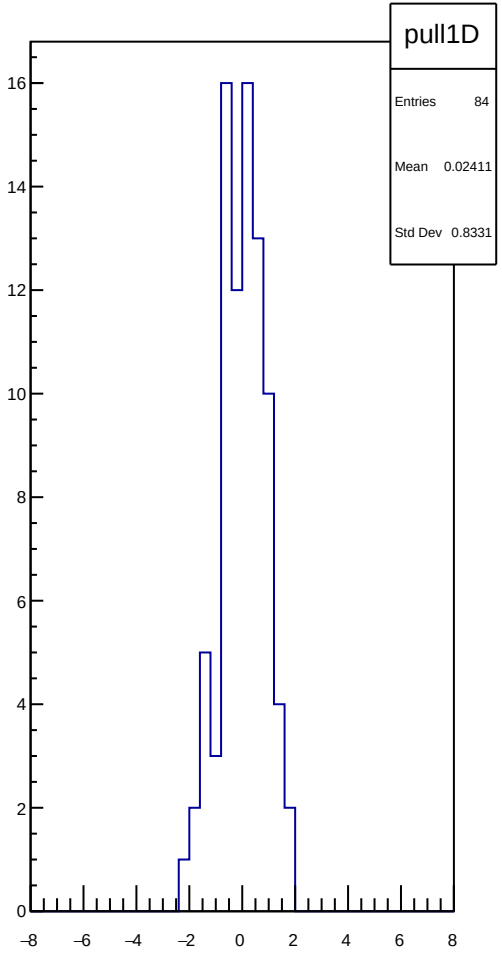

pull1D
Entries 84
Mean −0.03834
Std Dev 3.205

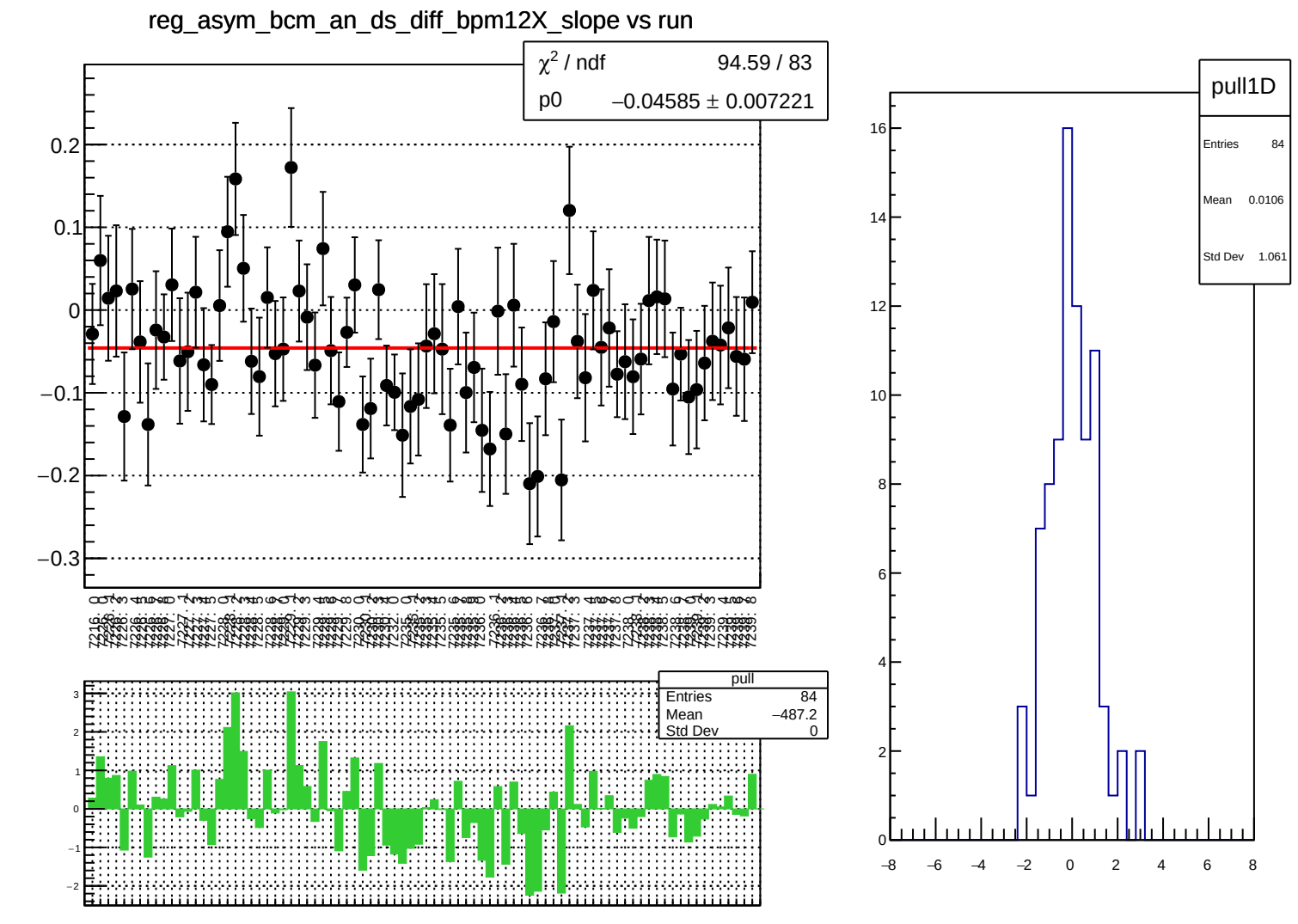

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 55.73 / 83
p0 1.017 ± 0.1582
pull
Entries 84
Mean 84.05
Std Dev 0
pull1D
Entries 84
Mean −0.02781
Std Dev 0.814

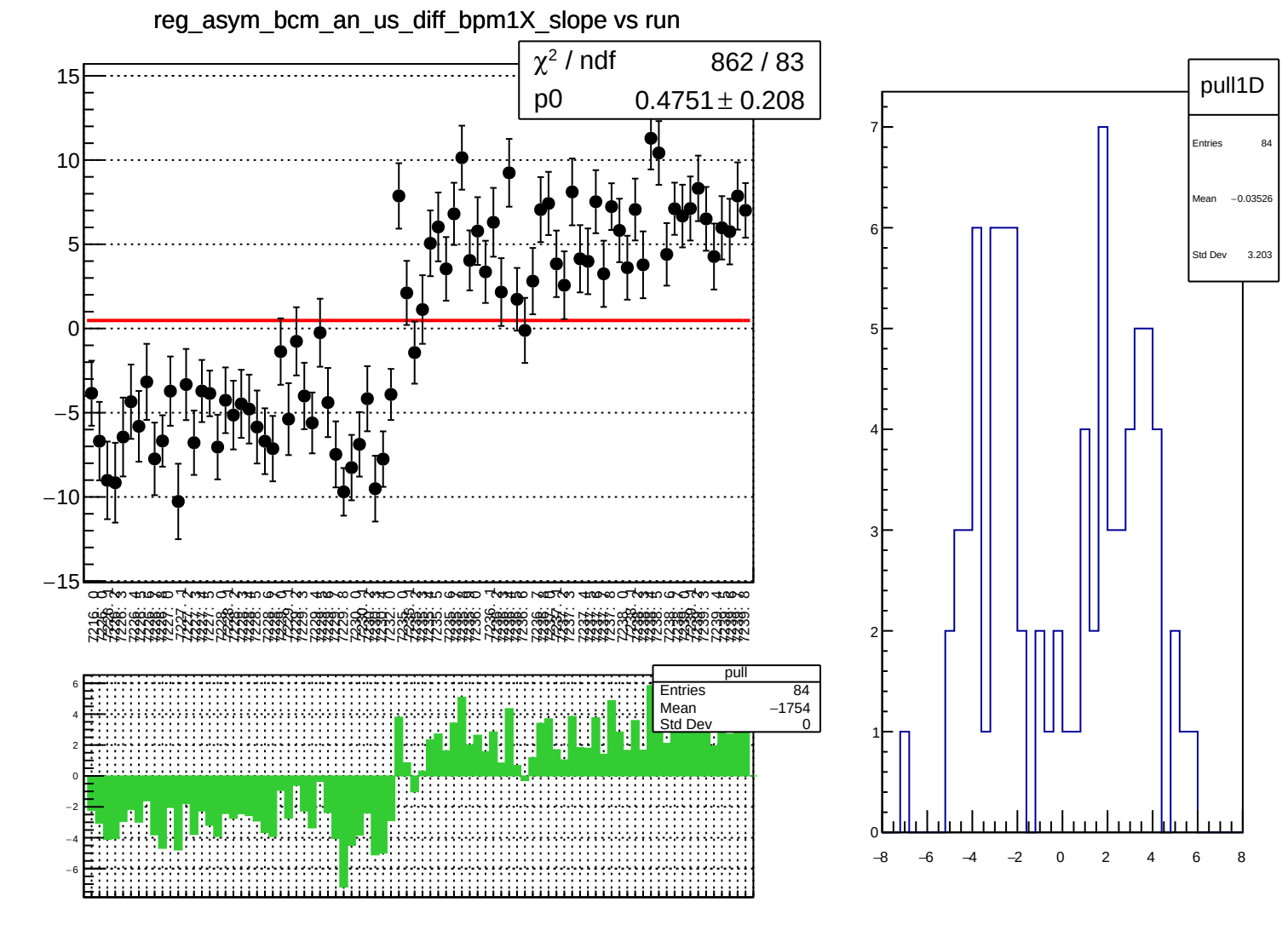

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 840.9 / 83
p0 −0.6065 ± 0.2114
pull
Entries 84
Mean 7863
Std Dev 0

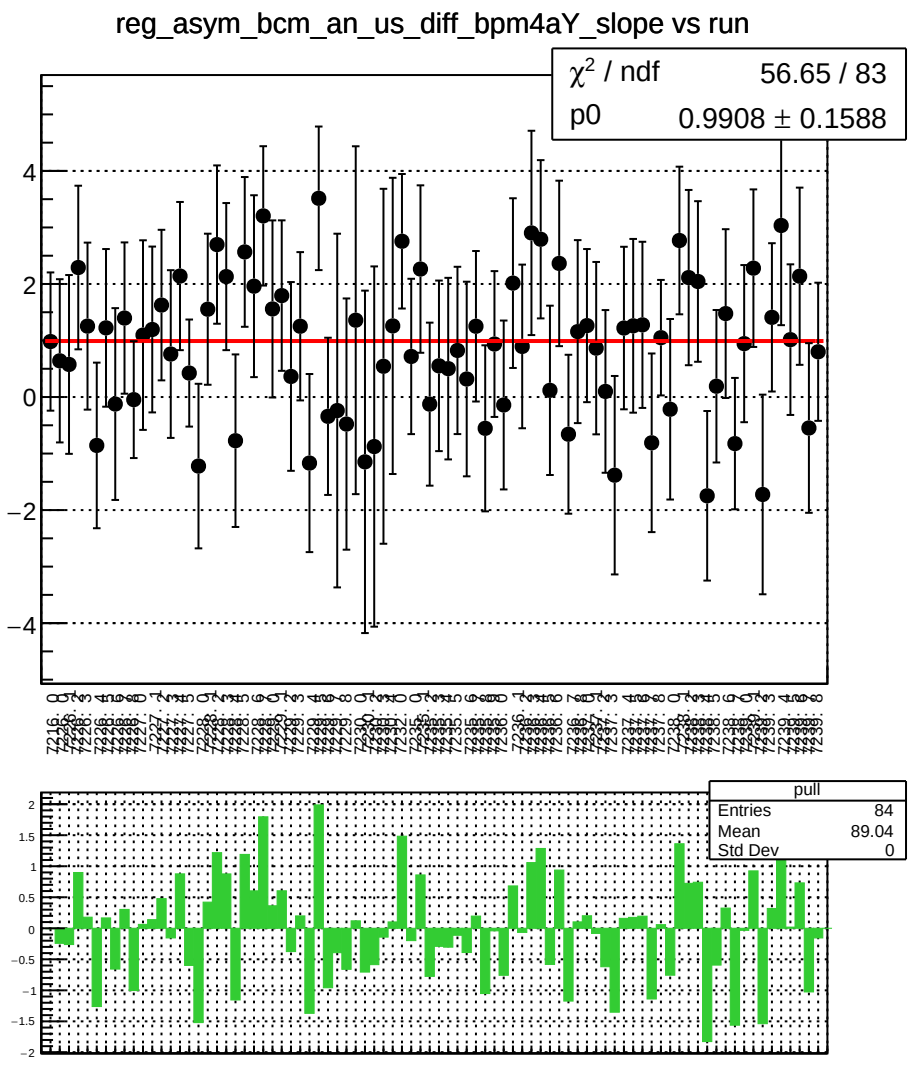

pull1D
Entries 84
Mean −0.008034
Std Dev 3.164

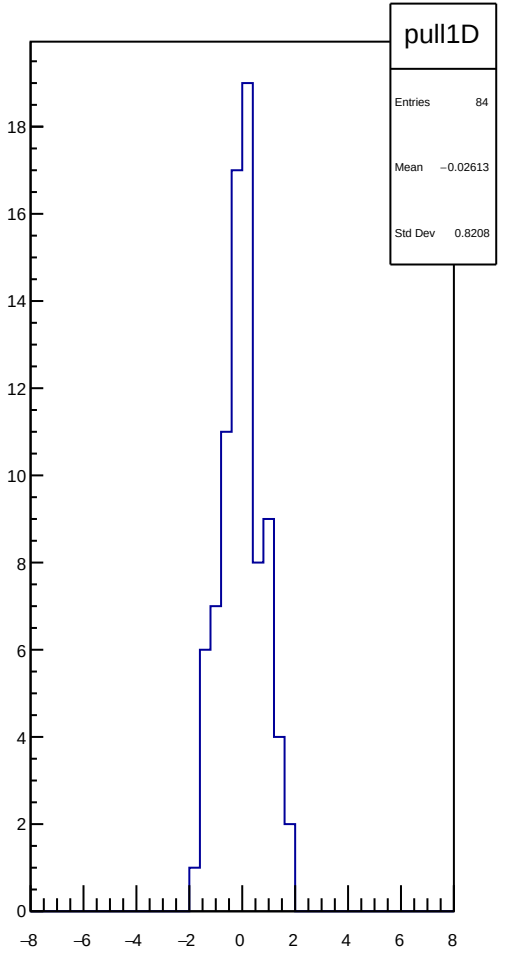

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 58.34 / 83
p0 −1.524 ± 0.1731
pull
Entries 84
Mean 62.28
Std Dev 43.02

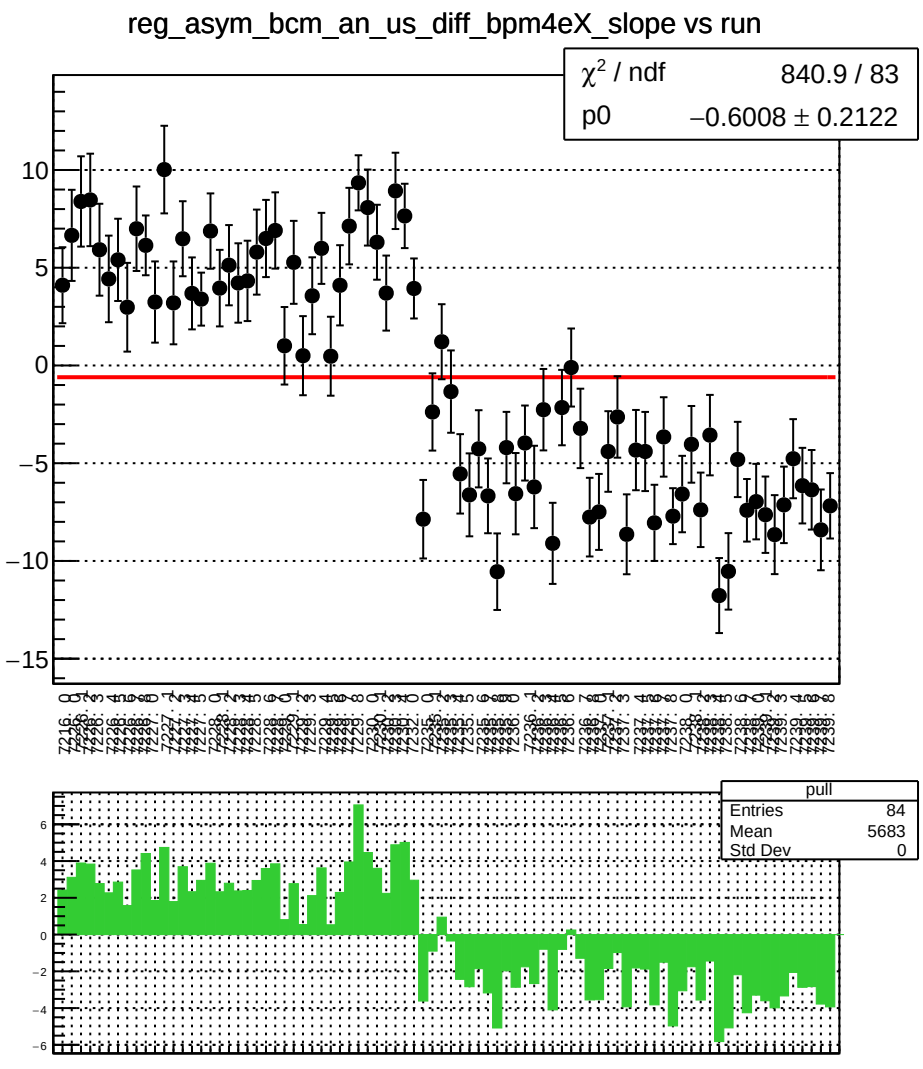

pull1D
Entries 84
Mean 0.02411
Std Dev 0.8331

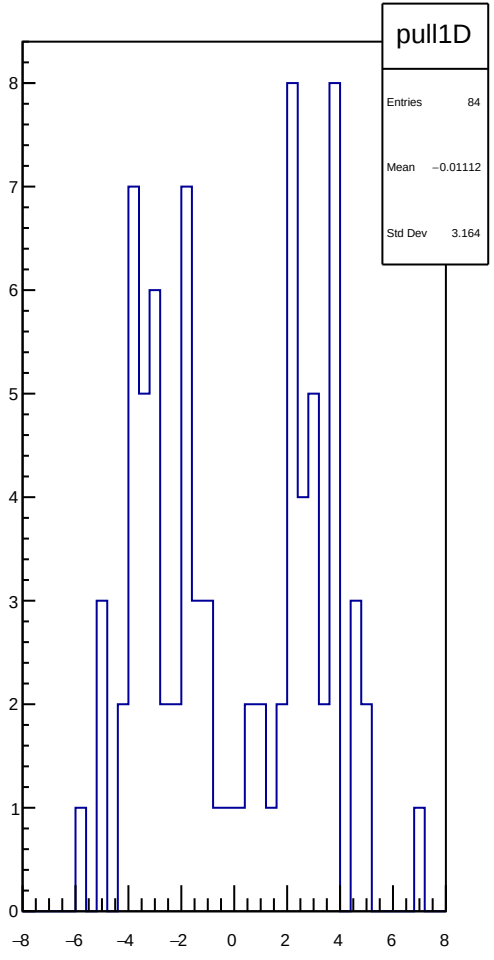

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 94.59 / 83
p0 −0.04585 ± 0.007221
pull
Entries 84
Mean −487.2
Std Dev 0
pull1D
Entries 84
Mean 0.0106
Std Dev 1.061

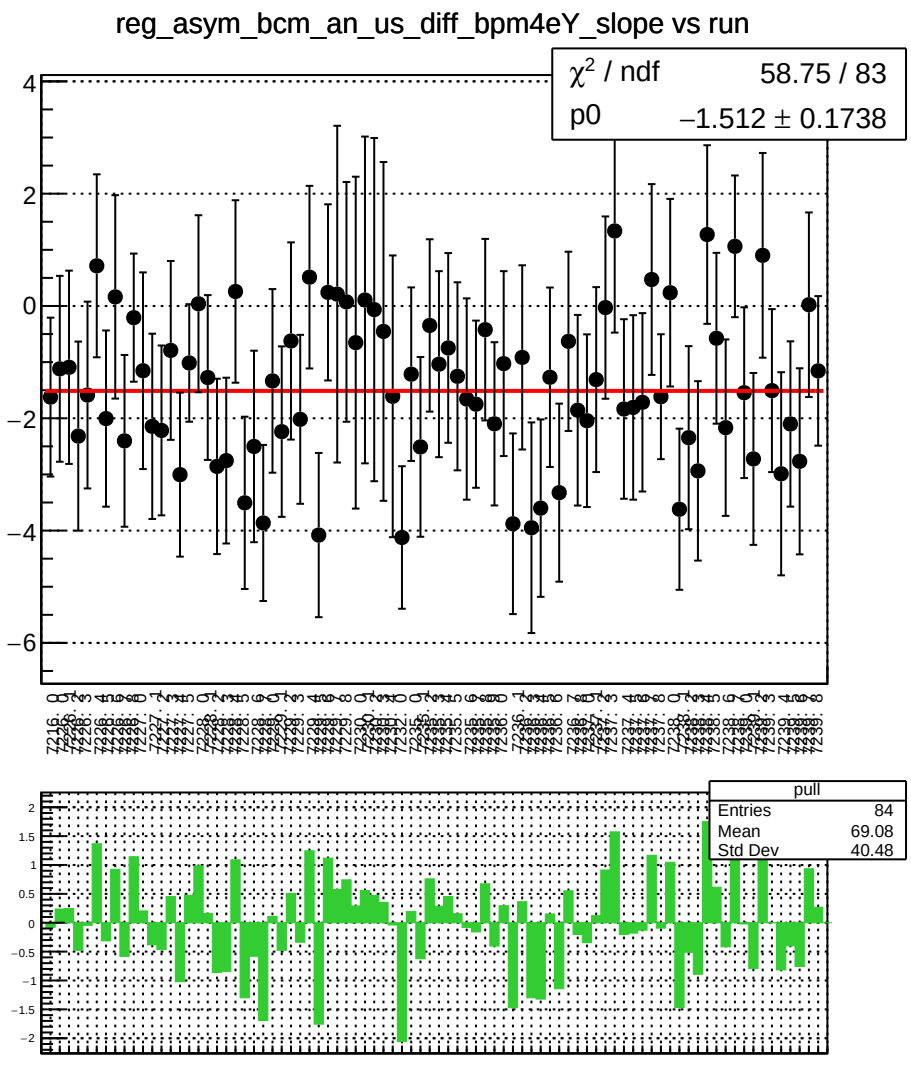

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 862 / 83
p0 0.4751 ± 0.208
pull
Entries 84
Mean −1754
Std Dev 0
pull1D
Entries 84
Mean −0.03526
Std Dev 3.203

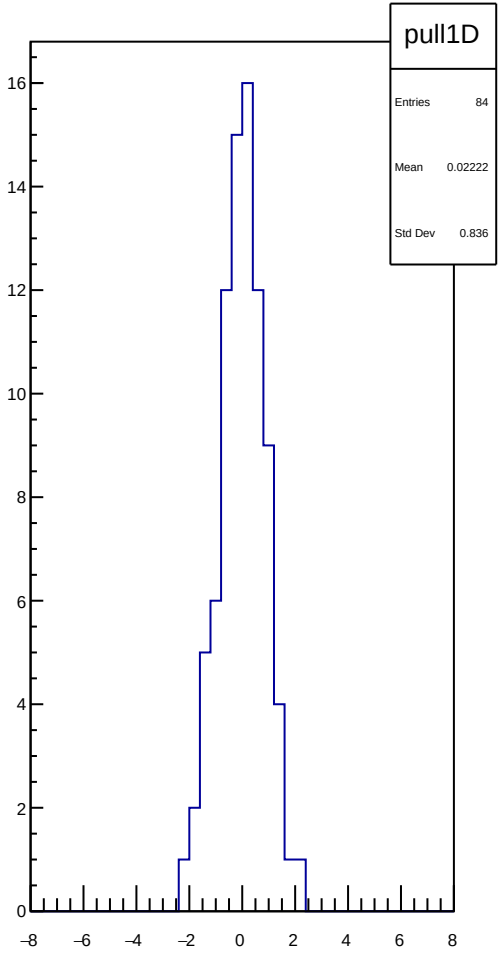

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 56.65 / 83
p0 0.9908 ± 0.1588
pull
Entries 84
Mean 89.04
Std Dev 0

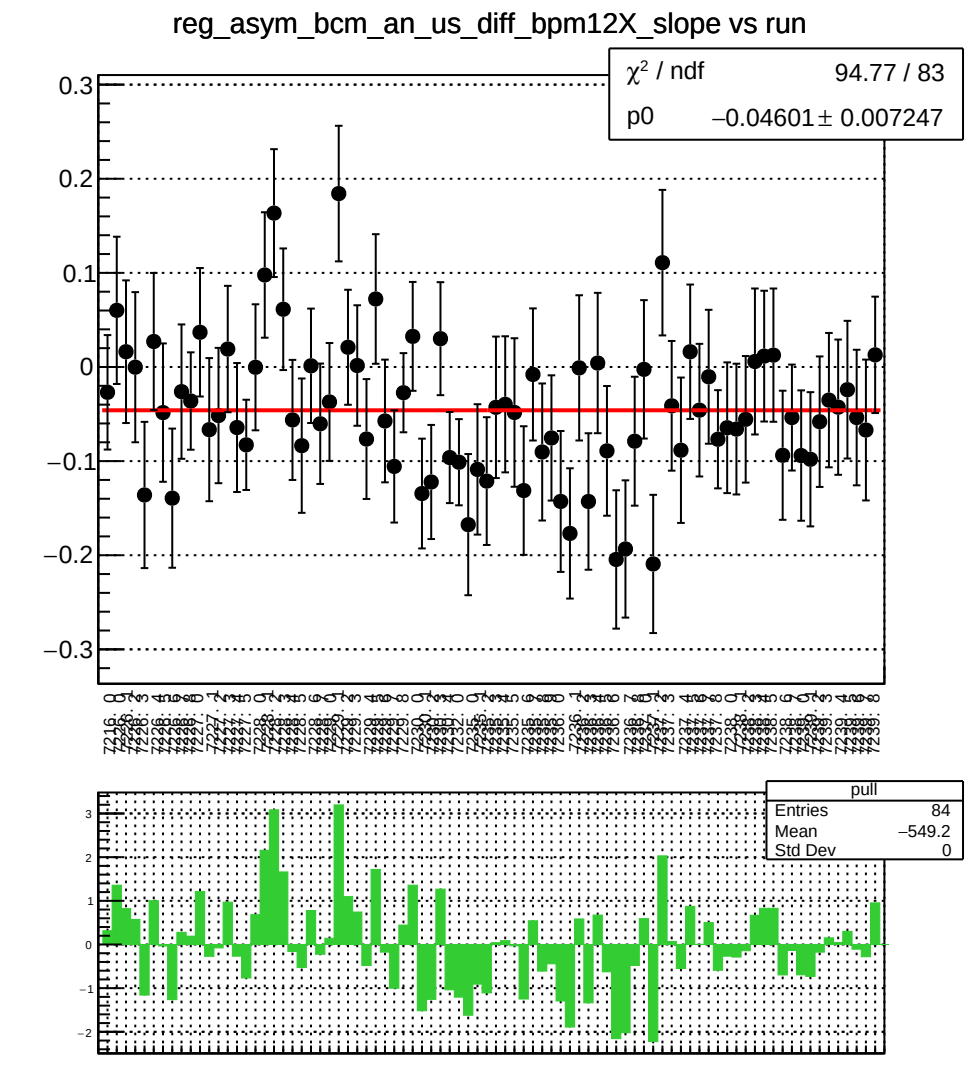

pull1D
Entries 84
Mean −0.02613
Std Dev 0.8208

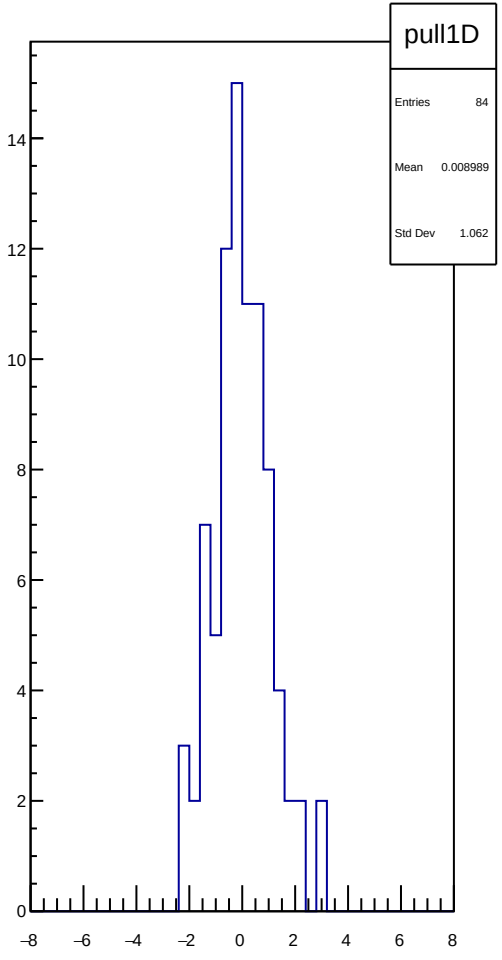

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 840.9 / 83
p0 −0.6008 ± 0.2122
pull
Entries 84
Mean 5683
Std Dev 0

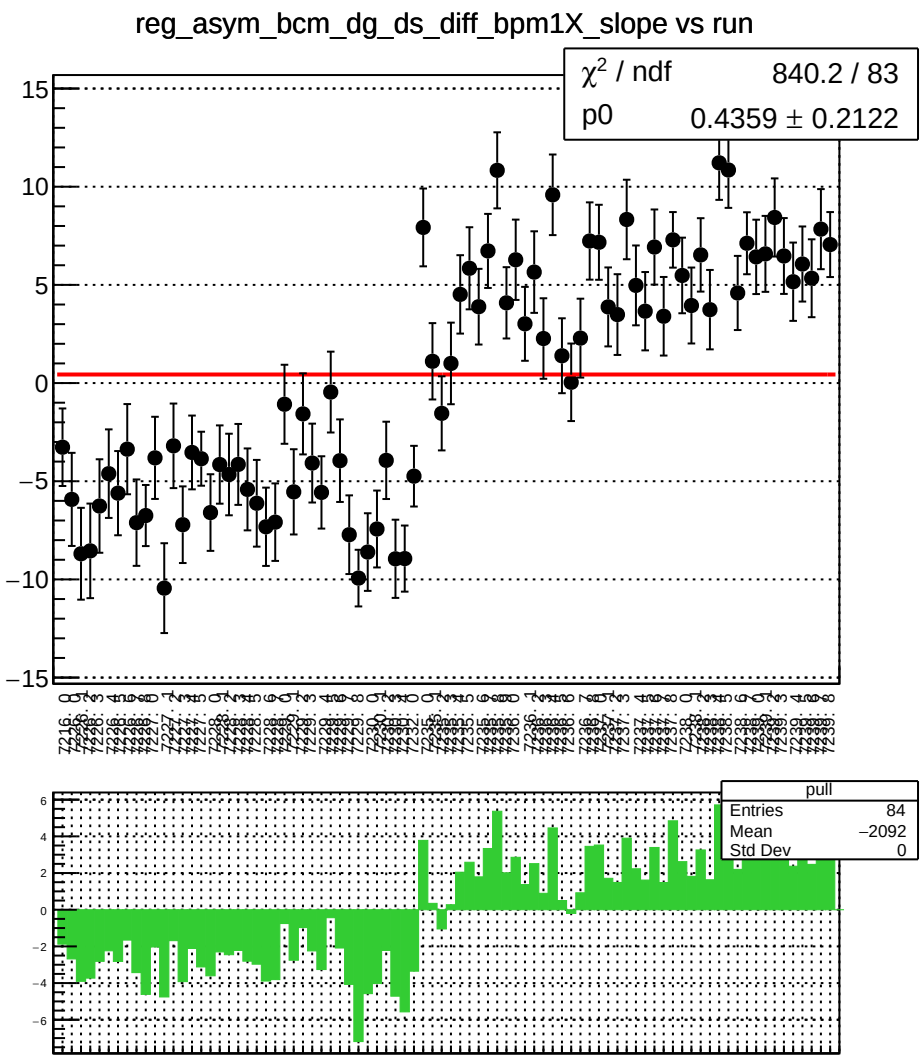

pull1D
Entries 84
Mean −0.01112
Std Dev 3.164

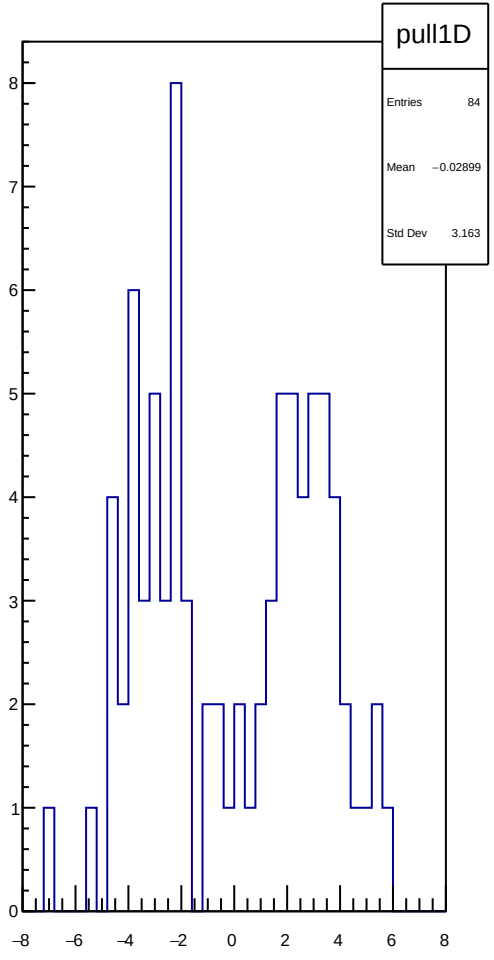

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 58.75 / 83
p0 −1.512 ± 0.1738
pull
Entries 84
Mean 69.08
Std Dev 40.48

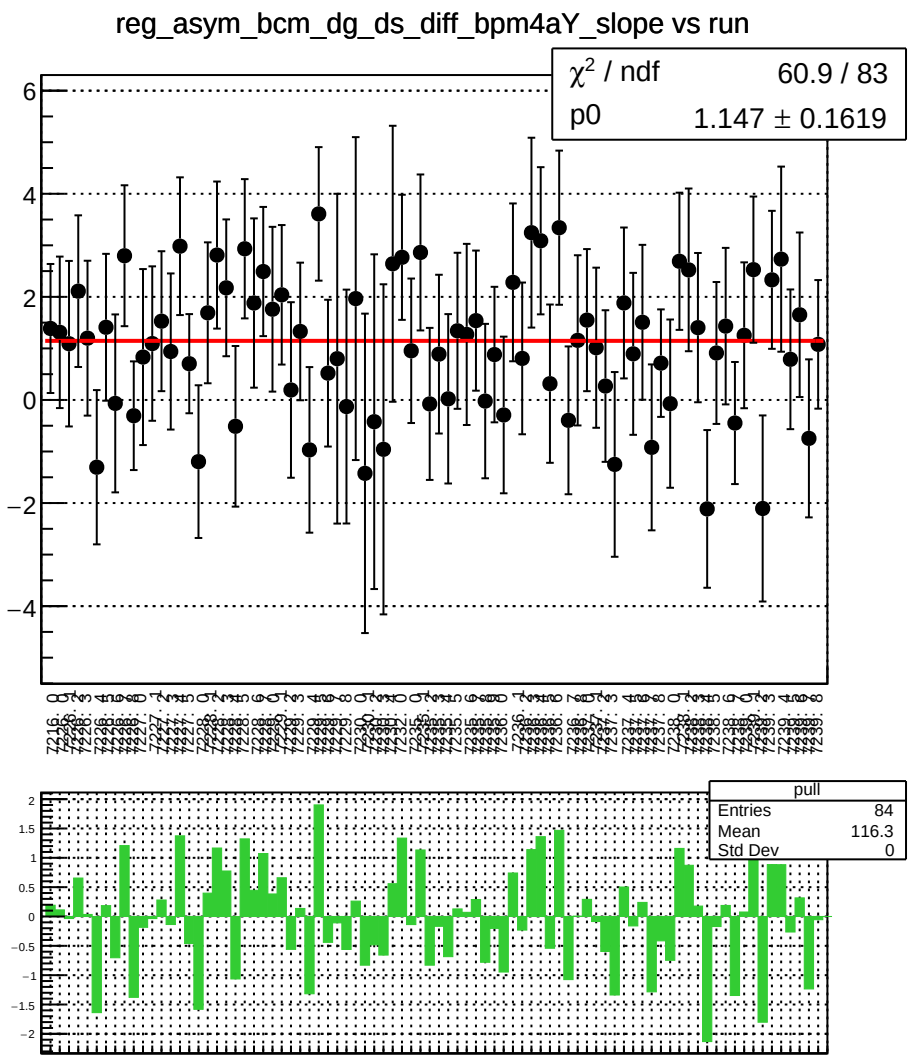

pull1D
Entries 84
Mean 0.02222
Std Dev 0.836

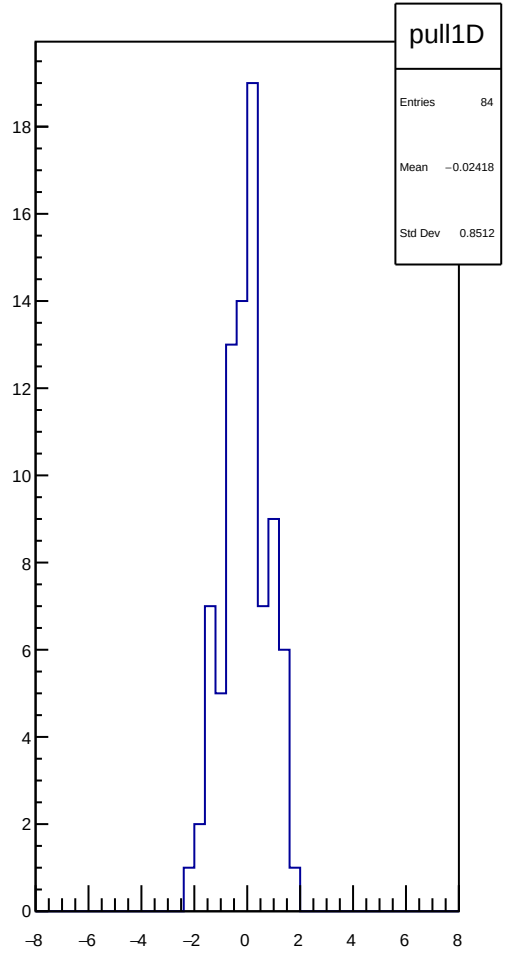

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 94.77 / 83
p0 −0.04601 ± 0.007247
pull
Entries 84
Mean −549.2
Std Dev 0

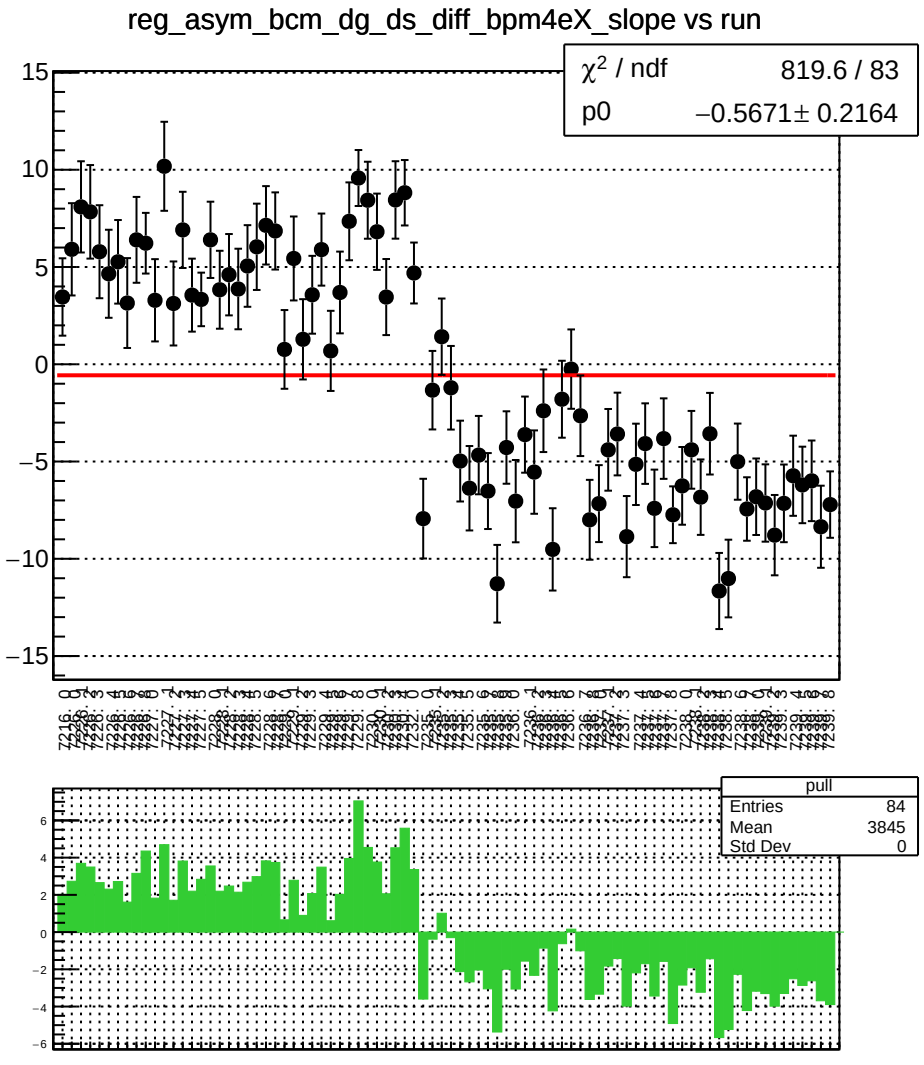

pull1D
Entries 84
Mean 0.008989
Std Dev 1.062

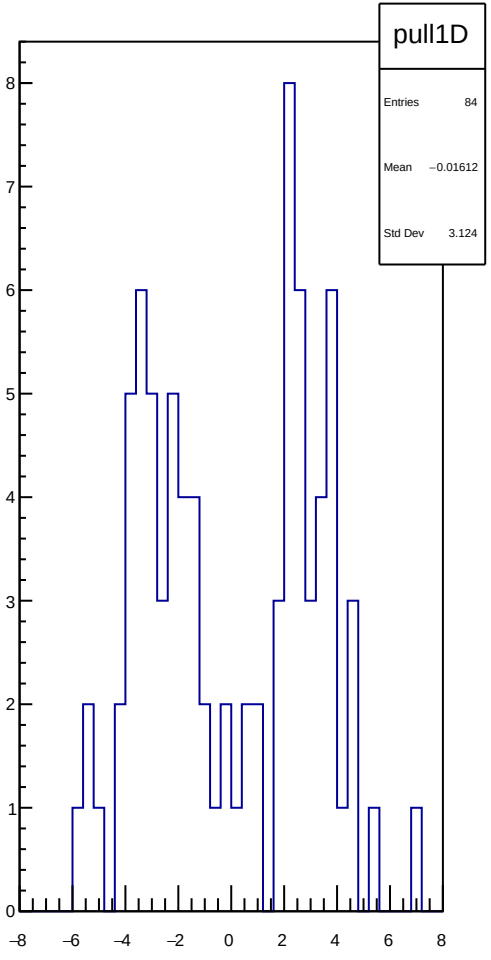

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 840.2 / 83
p0 0.4359 ± 0.2122
pull
Entries 84
Mean −2092
Std Dev 0

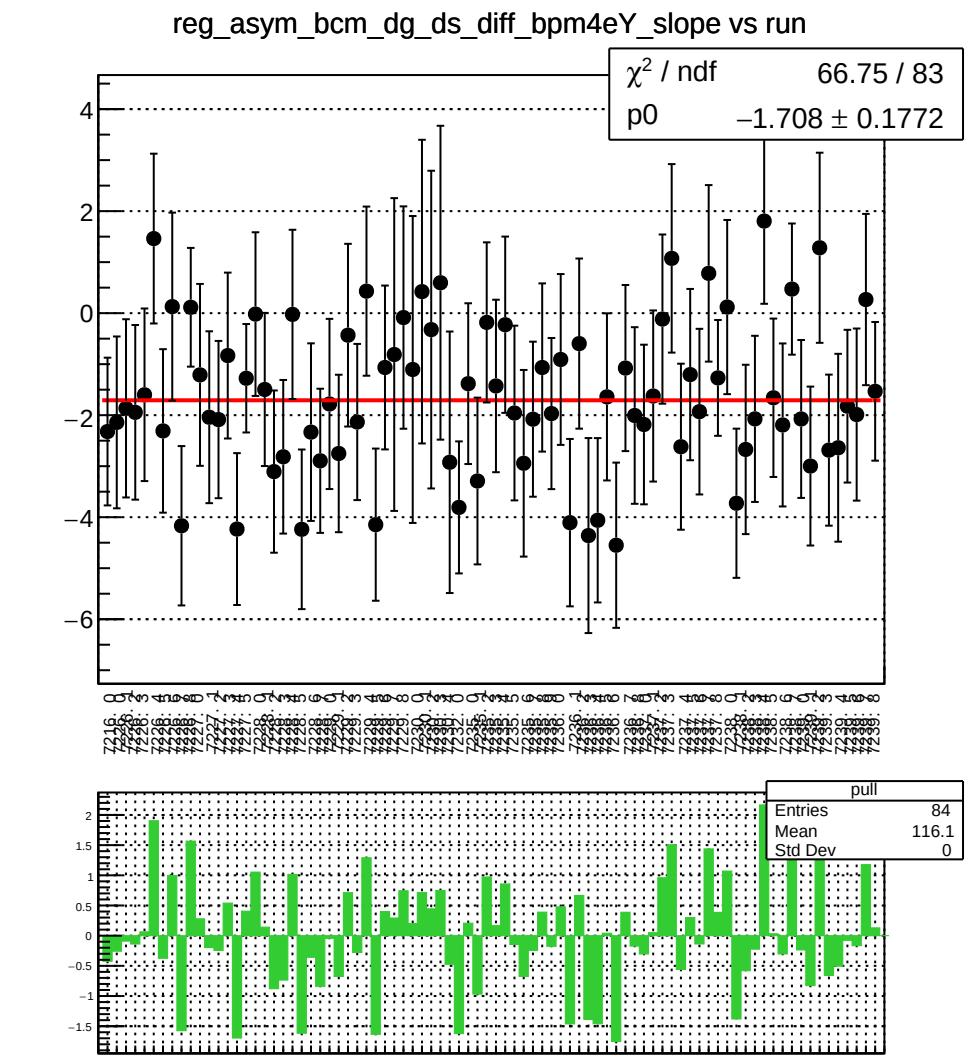

pull1D
Entries 84
Mean −0.02899
Std Dev 3.163

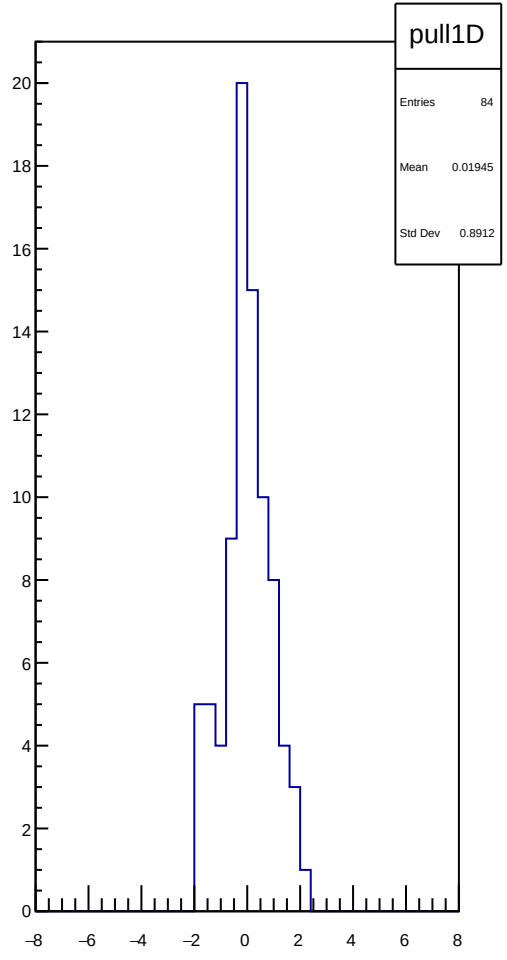

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 60.9 / 83
p0 1.147 ± 0.1619
pull
Entries 84
Mean 116.3
Std Dev 0

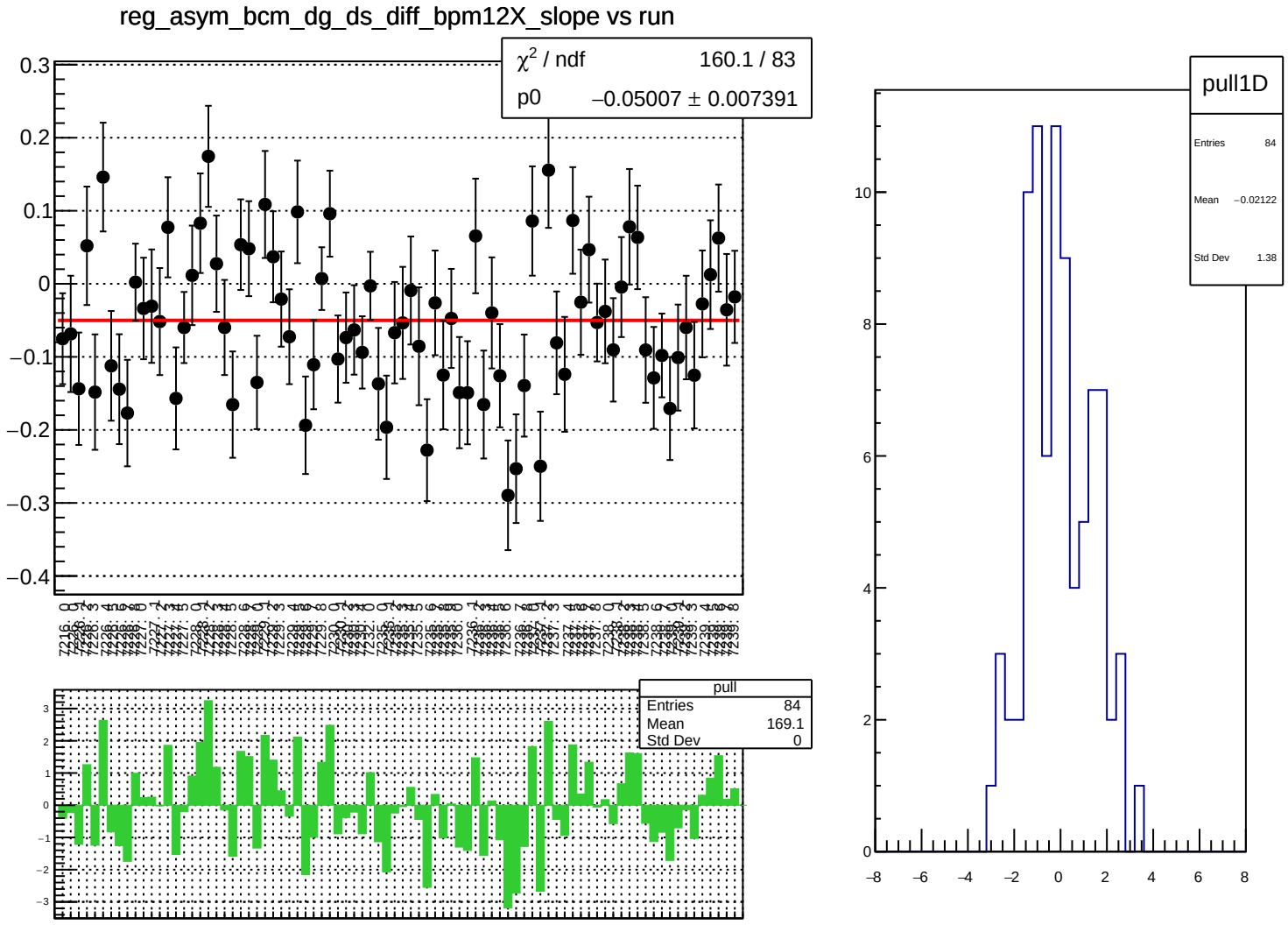

pull1D
Entries 84
Mean −0.02418
Std Dev 0.8512

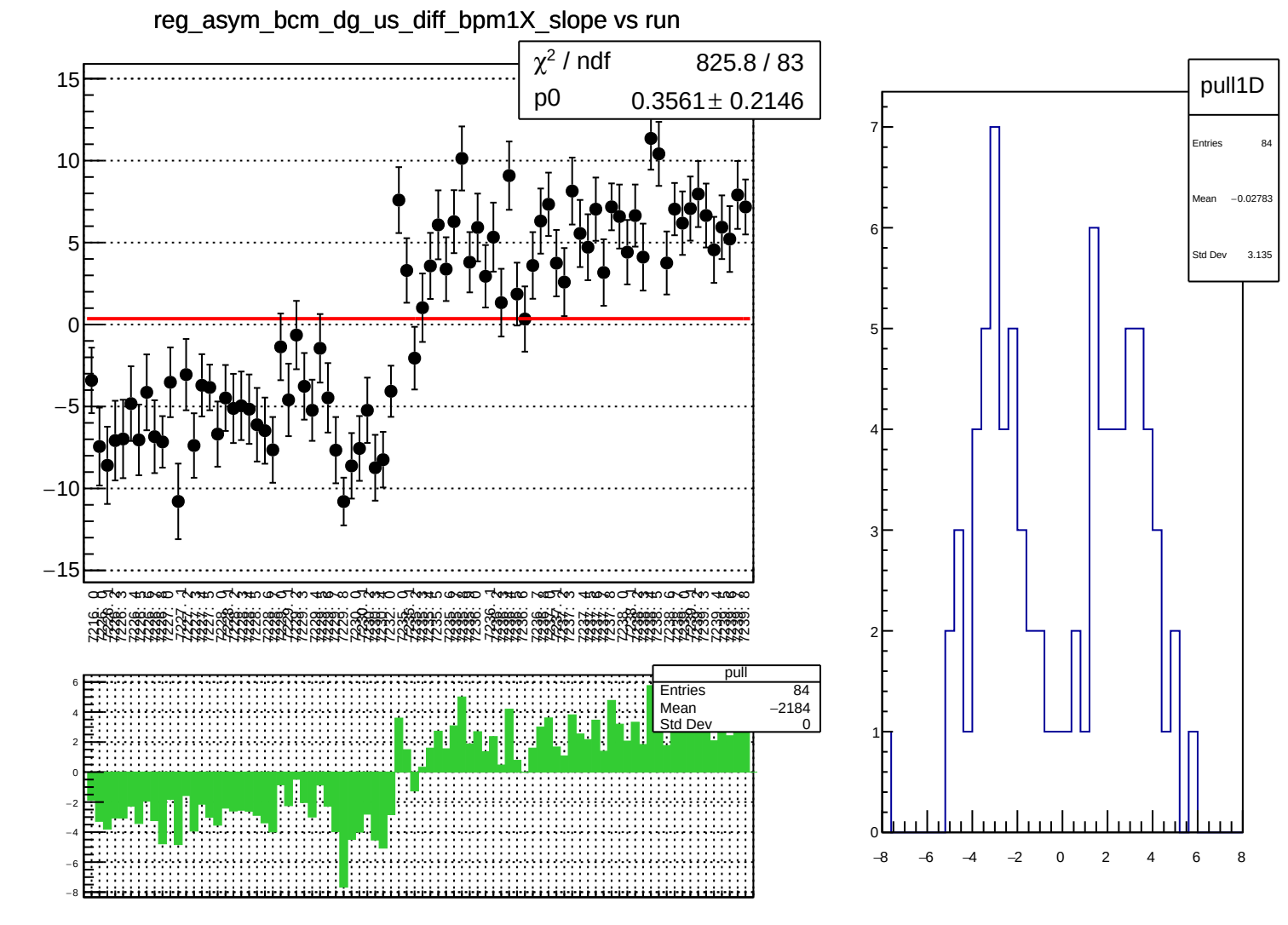

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 819.6 / 83
p0 −0.5671± 0.2164
pull
Entries 84
Mean 3845
Std Dev 0

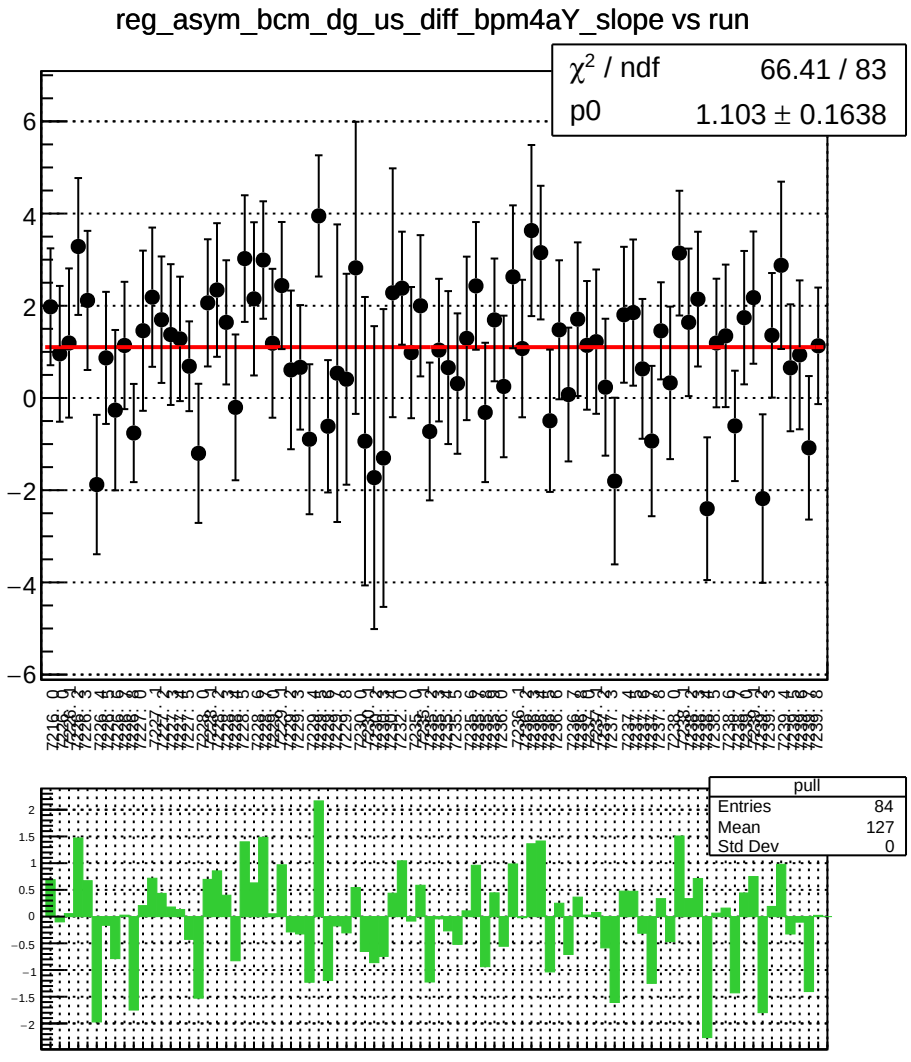

pull1D
Entries 84
Mean −0.01612
Std Dev 3.124

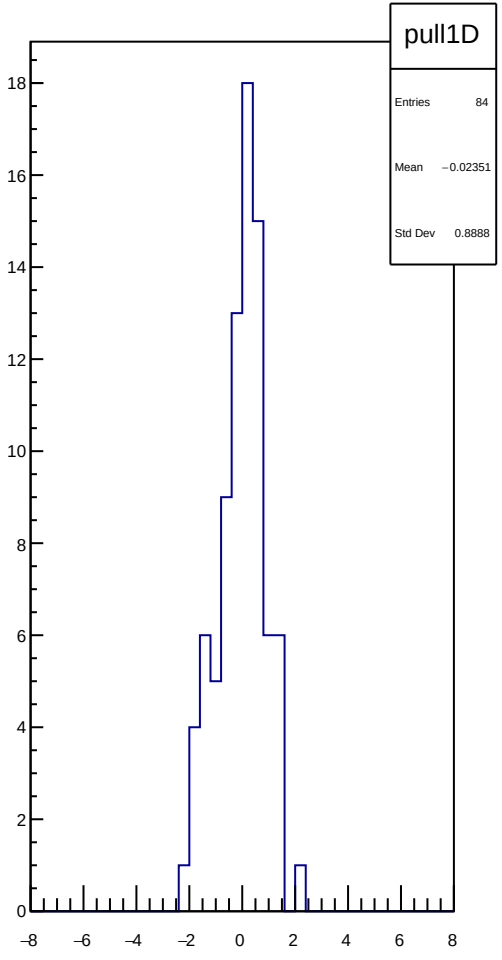

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 66.75 / 83
p0 −1.708 ± 0.1772
pull
Entries 84
Mean 116.1
Std Dev 0

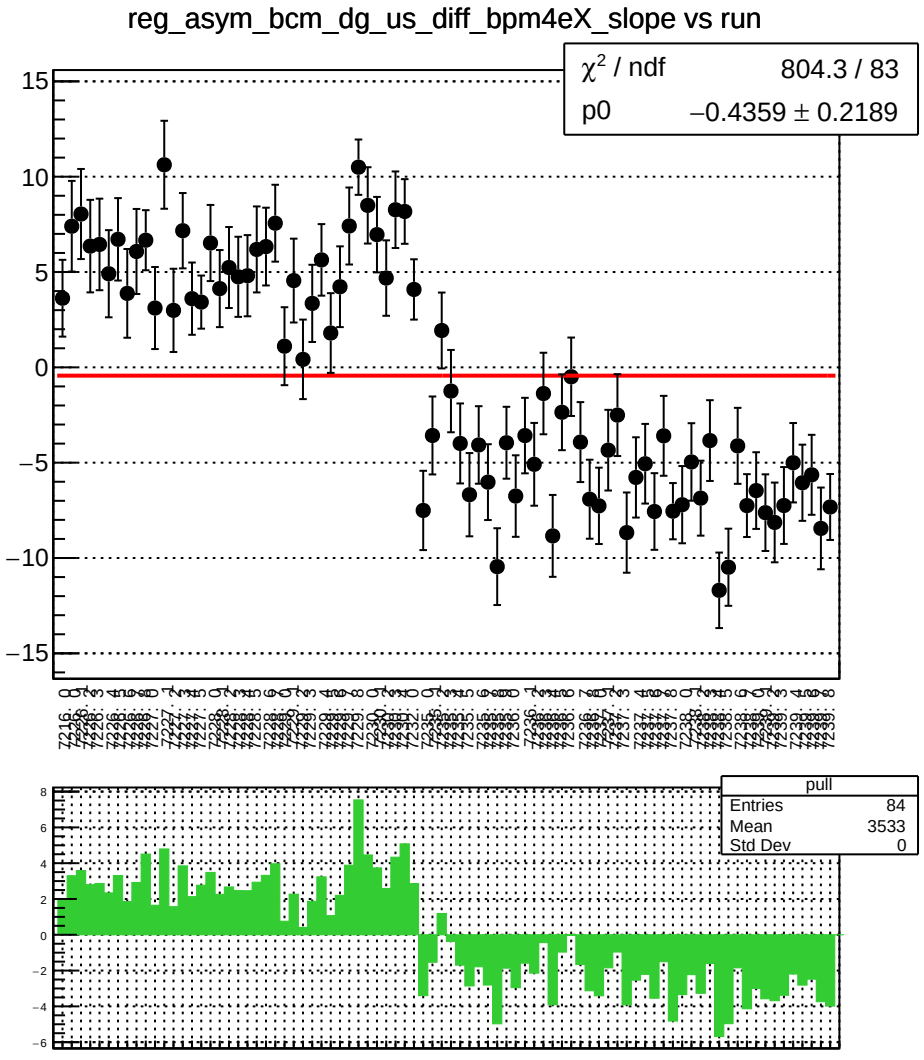

pull1D
Entries 84
Mean 0.01945
Std Dev 0.8912

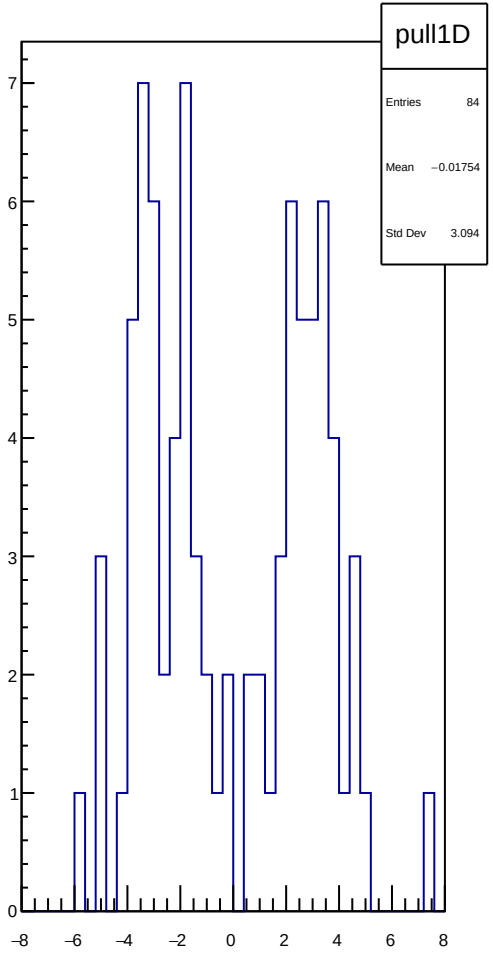

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 160.1 / 83
p0 −0.05007 ± 0.007391
pull
Entries 84
Mean 169.1
Std Dev 0
pull1D
Entries 84
Mean −0.02122
Std Dev 1.38

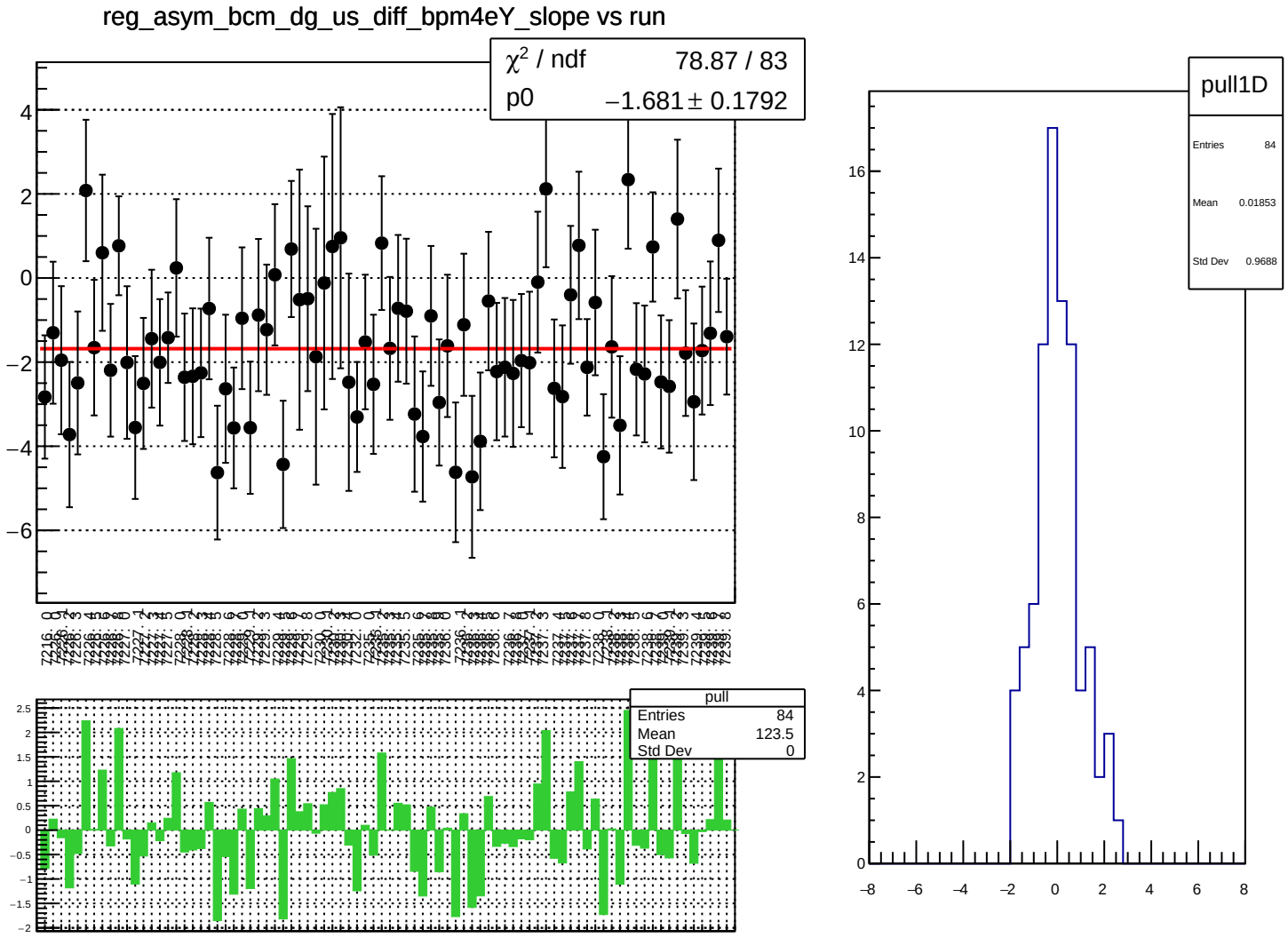

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 825.8 / 83
p0 0.3561 ± 0.2146
pull
Entries 84
Mean −2184
Std Dev 0
pull1D
Entries 84
Mean −0.02783
Std Dev 3.135

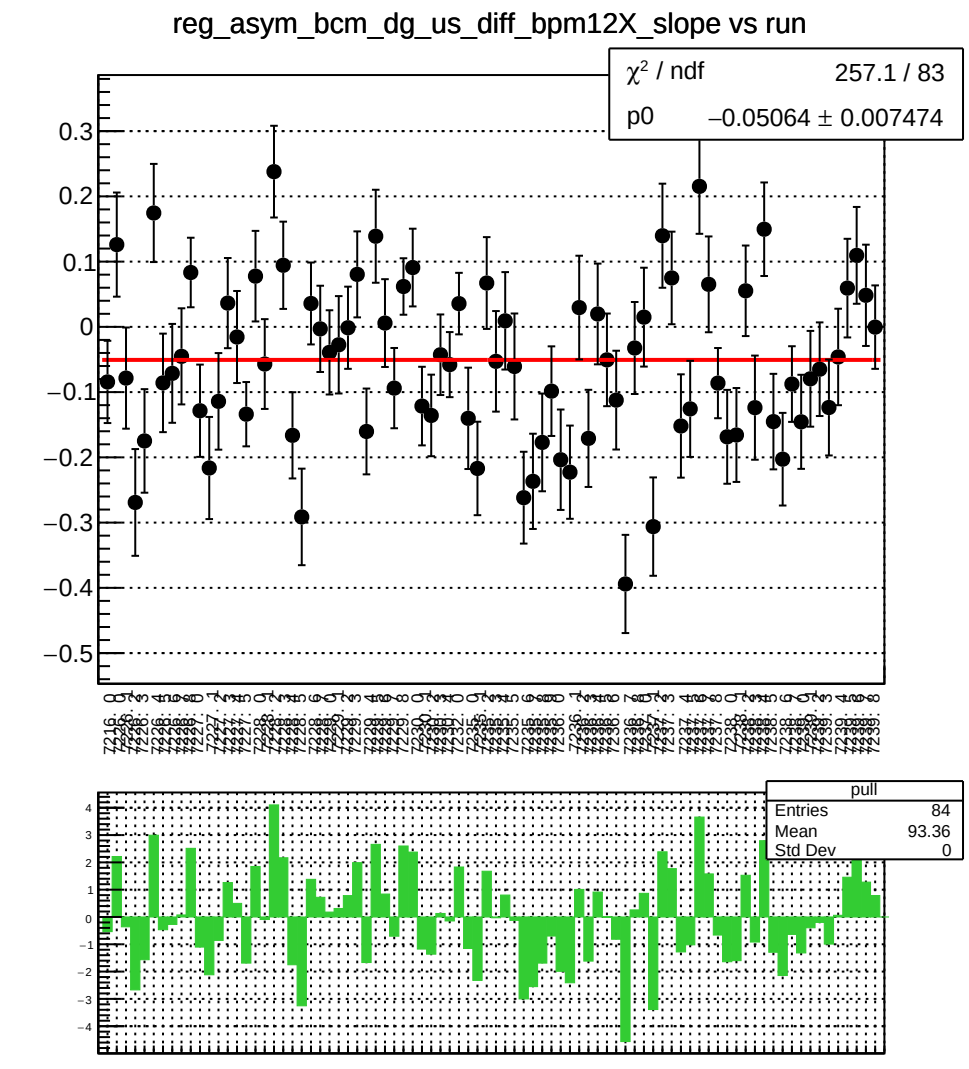

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 66.41 / 83
p0 1.103 ± 0.1638
pull
Entries 84
Mean 127
Std Dev 0

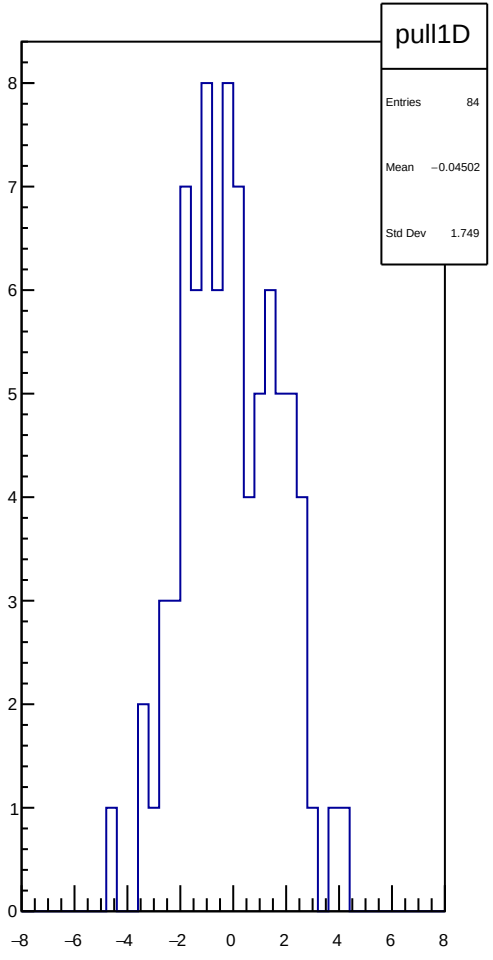

pull1D
Entries 84
Mean −0.02351
Std Dev 0.8888

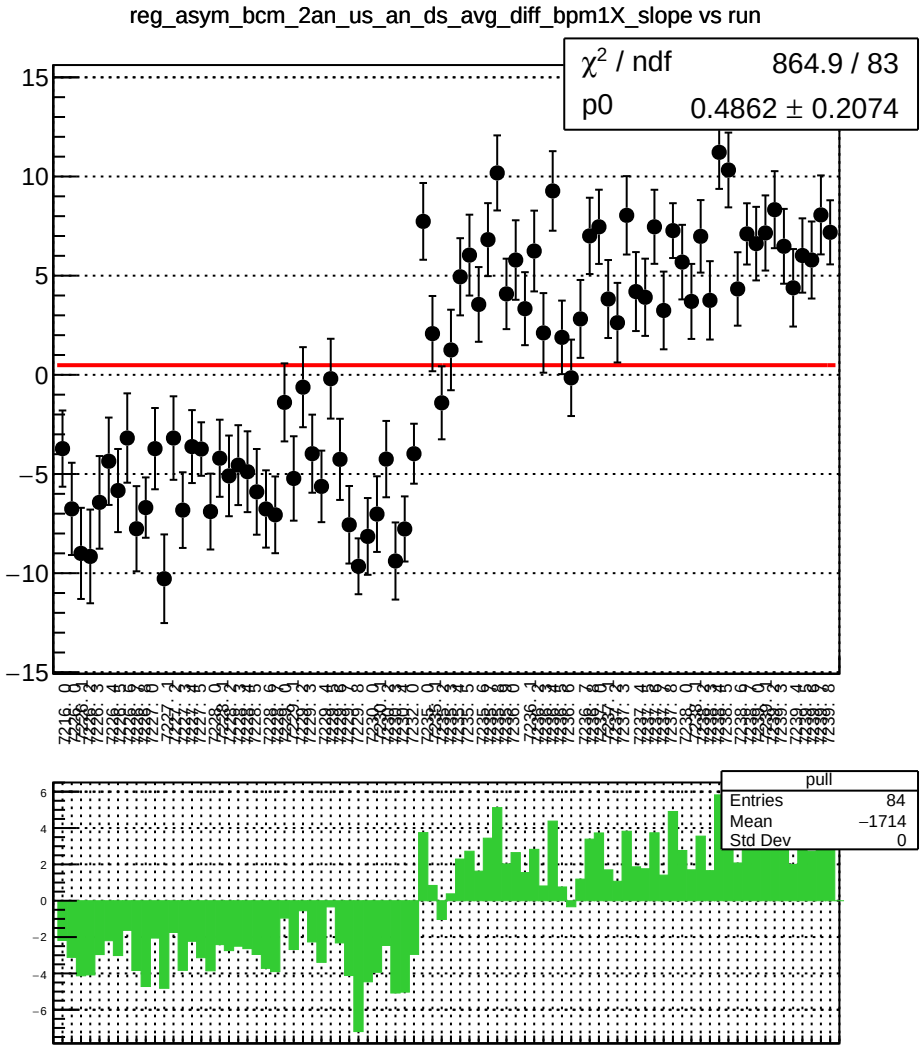

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 804.3 / 83
p0 −0.4359 ± 0.2189
pull
Entries 84
Mean 3533
Std Dev 0

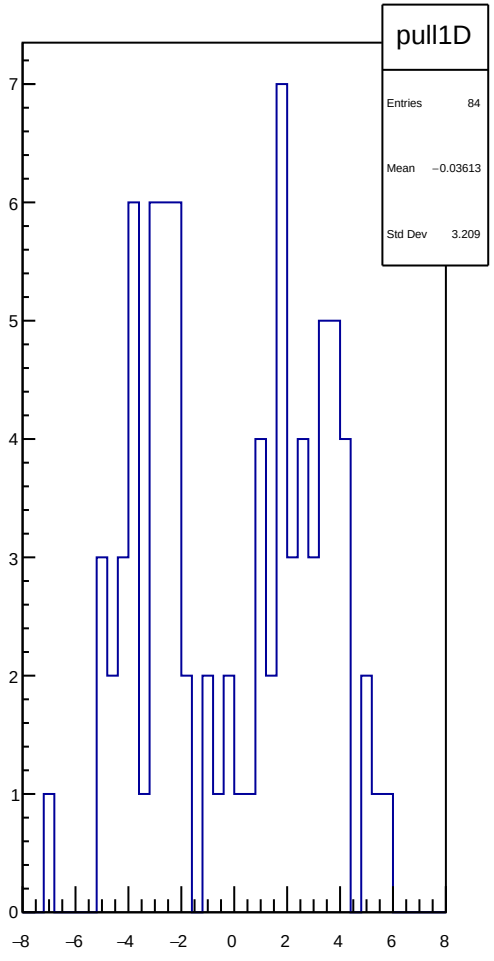

pull1D
Entries 84
Mean −0.01754
Std Dev 3.094

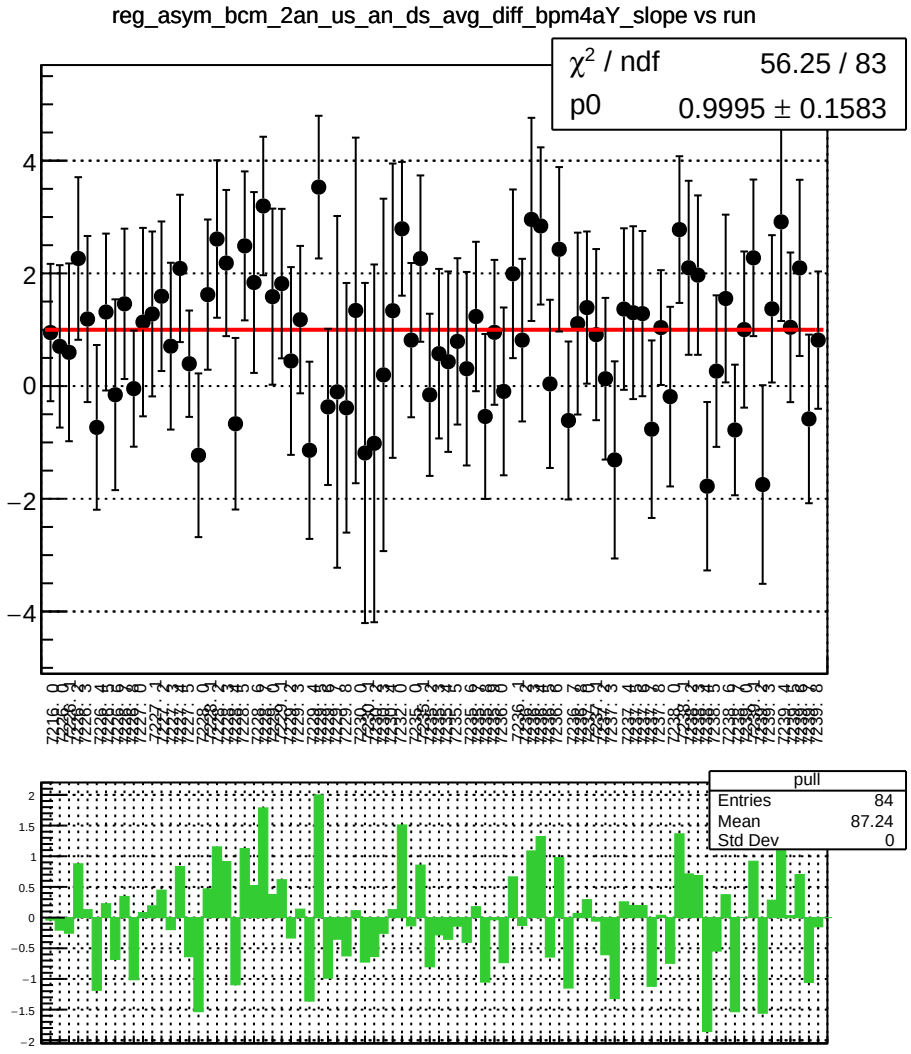

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 78.87 / 83
p0 −1.681 ± 0.1792
pull
Entries 84
Mean 123.5
Std Dev 0
pull1D
Entries 84
Mean 0.01853
Std Dev 0.9688

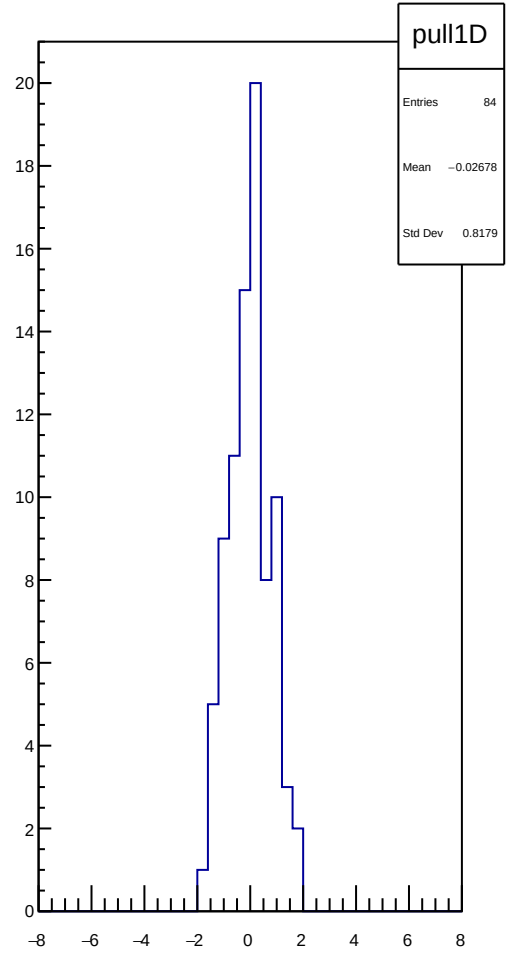

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 257.1 / 83
p0 −0.05064 ± 0.007474
pull
Entries 84
Mean 93.36
Std Dev 0

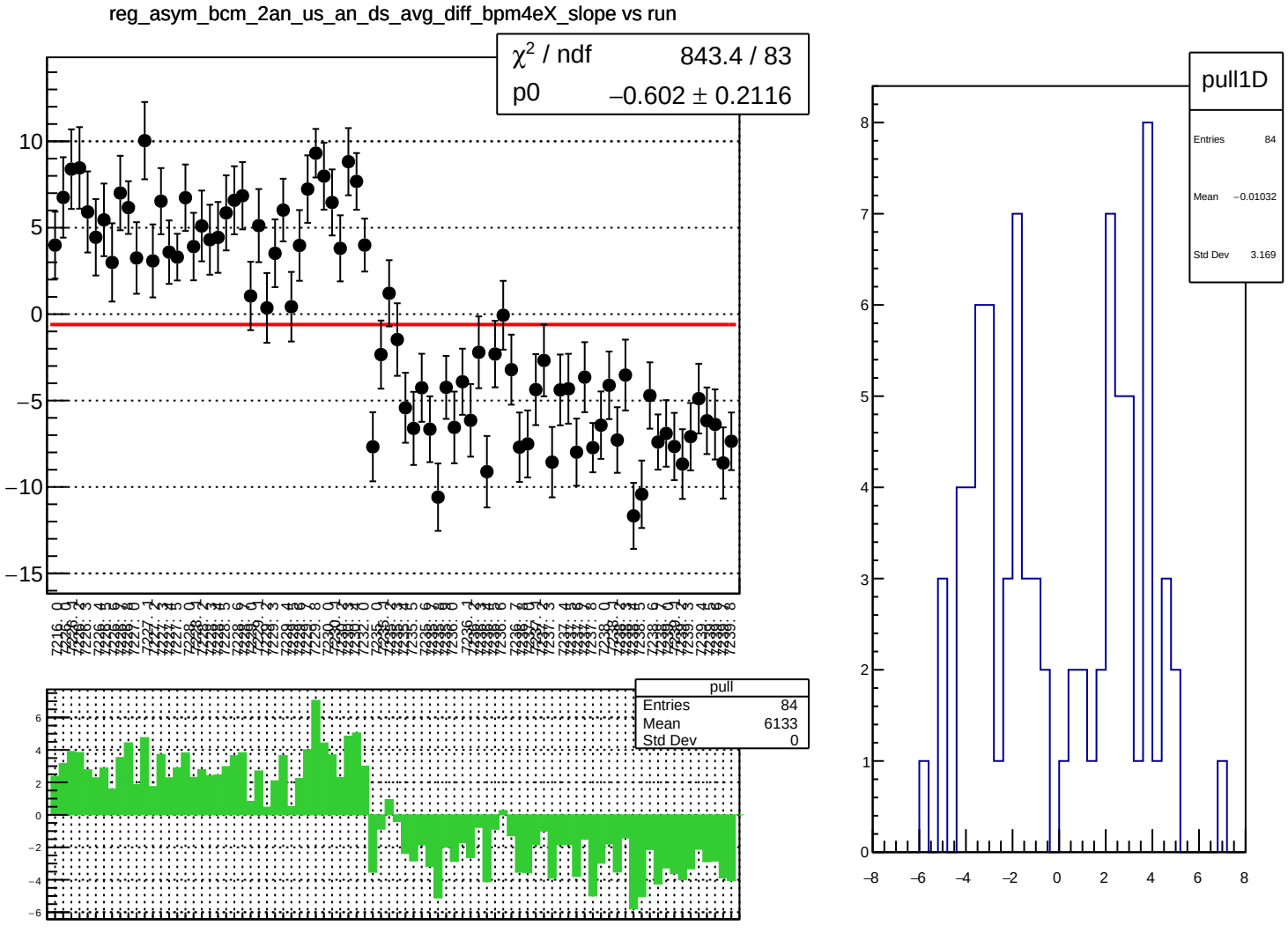

pull1D
Entries 84
Mean −0.04502
Std Dev 1.749

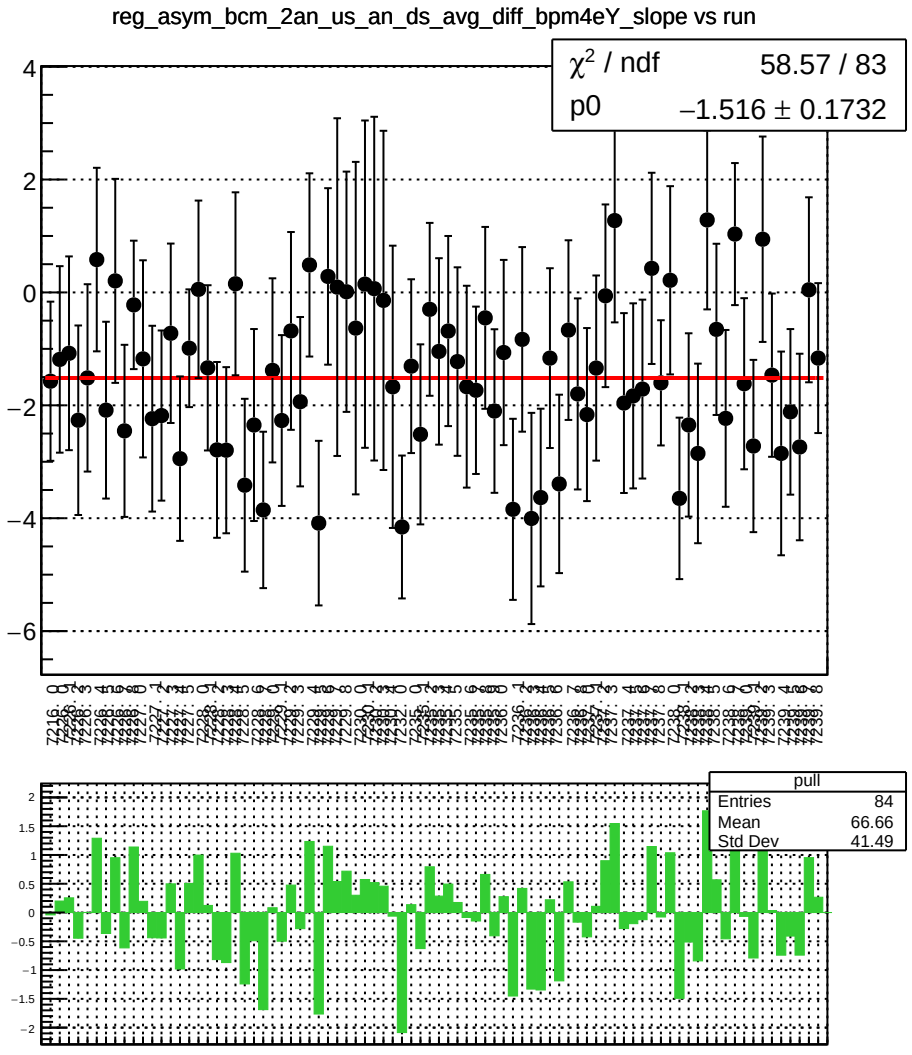

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 864.9 / 83
p0 0.4862 ± 0.2074
pull
Entries 84
Mean −1714
Std Dev 0

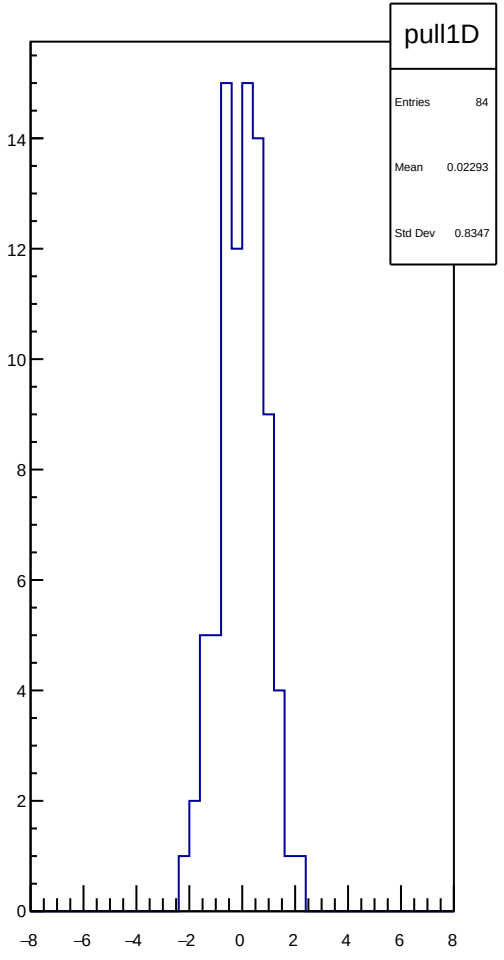

pull1D
Entries 84
Mean −0.03613
Std Dev 3.209

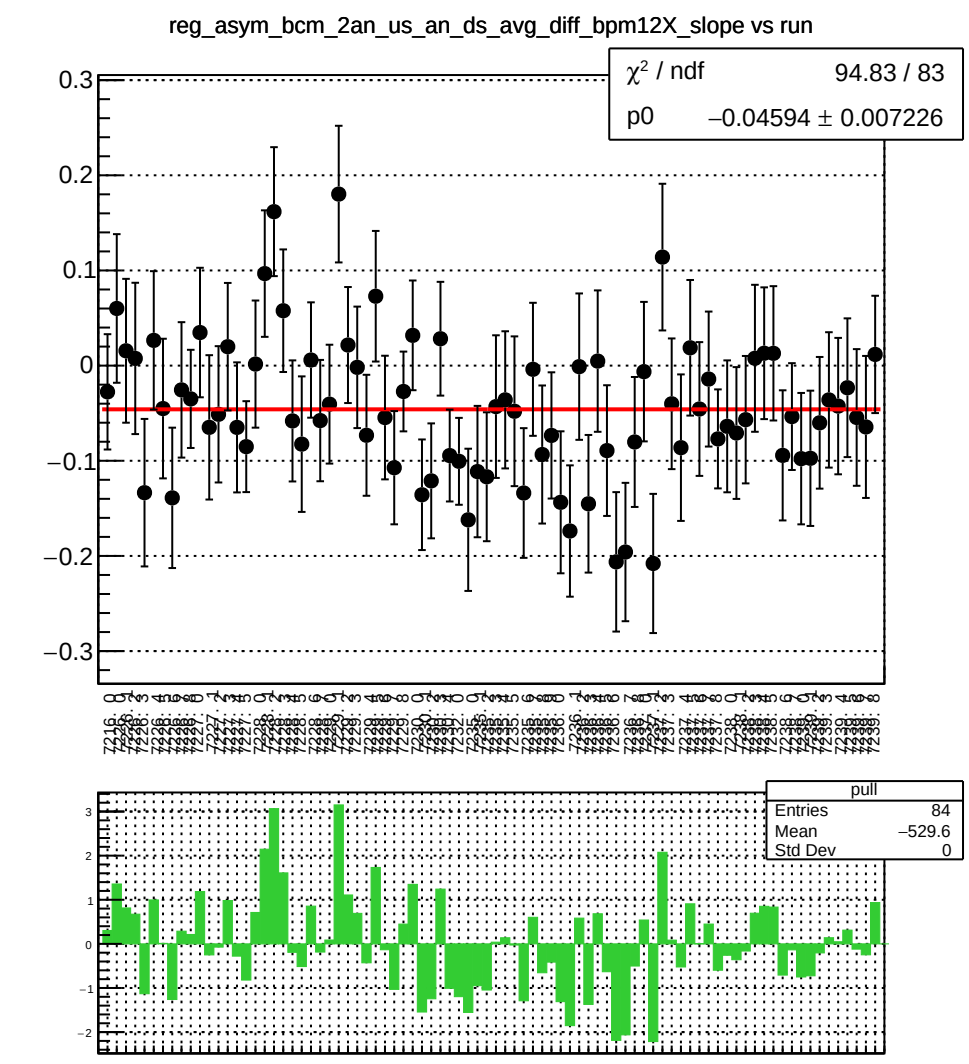

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 56.25 / 83
p0 0.9995 ± 0.1583
pull
Entries 84
Mean 87.24
Std Dev 0

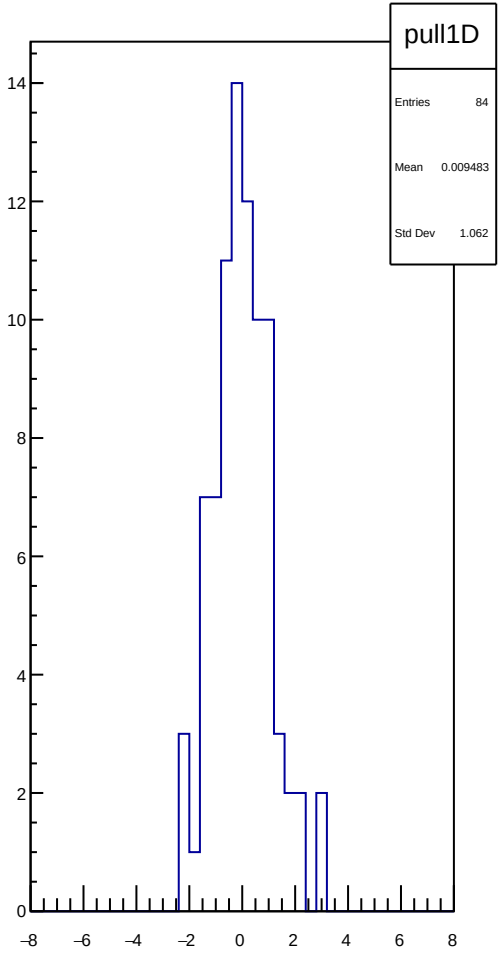

pull1D
Entries 84
Mean −0.02678
Std Dev 0.8179

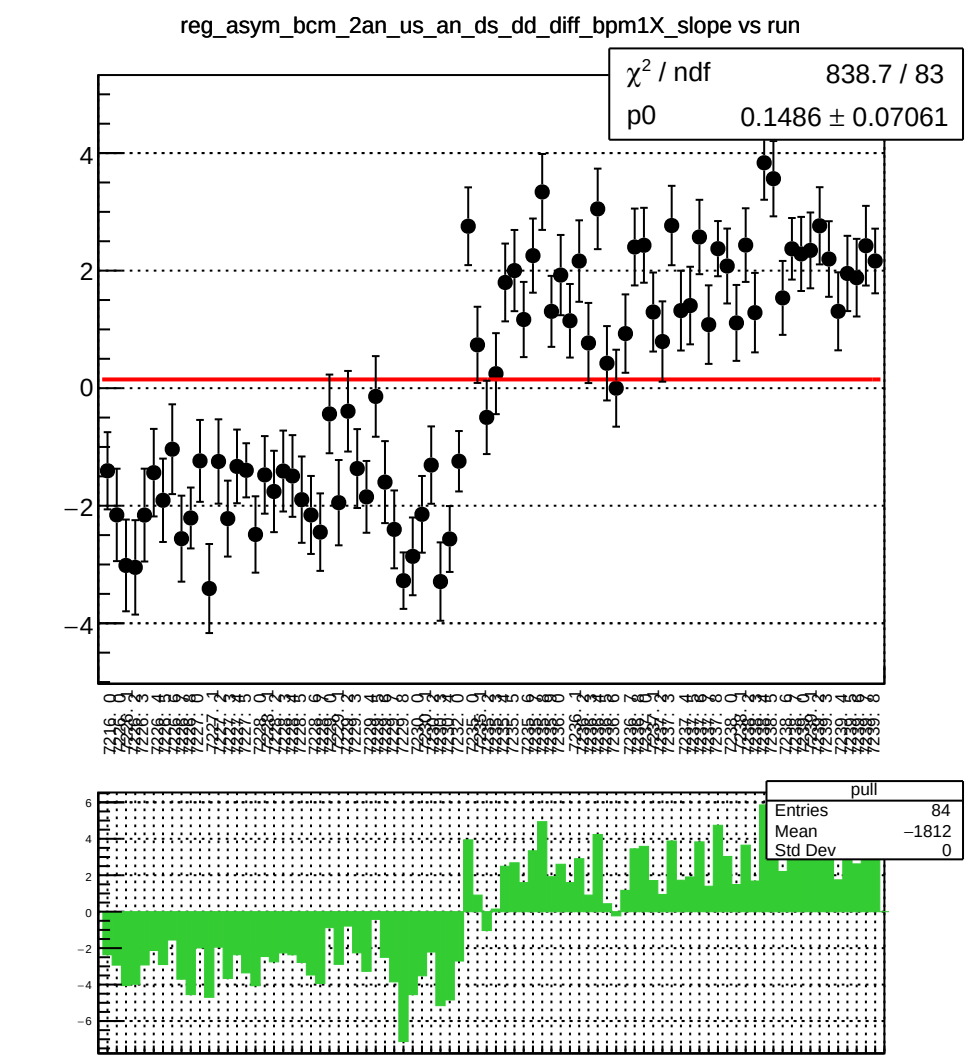

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 843.4 / 83
p0 −0.602 ± 0.2116
pull
Entries 84
Mean 6133
Std Dev 0
pull1D
Entries 84
Mean −0.01032
Std Dev 3.169

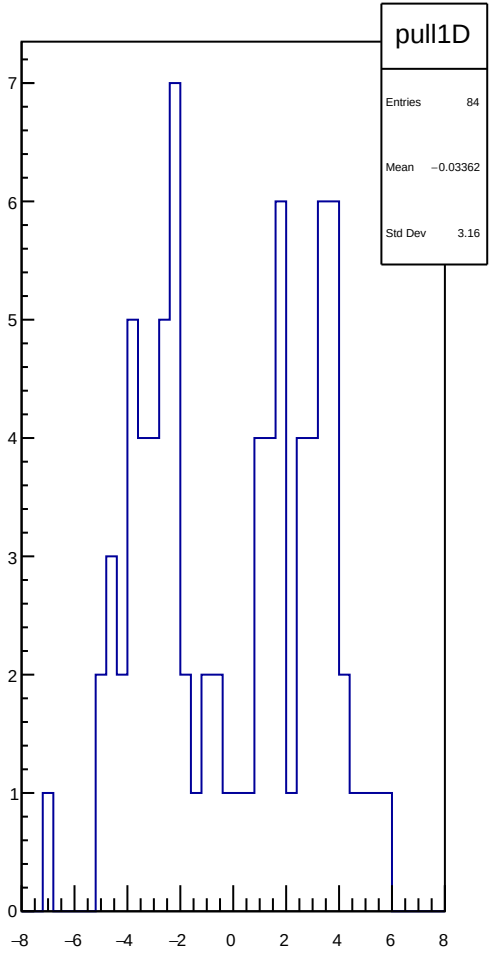

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 58.57 / 83
p0 −1.516 ± 0.1732
pull
Entries 84
Mean 66.66
Std Dev 41.49

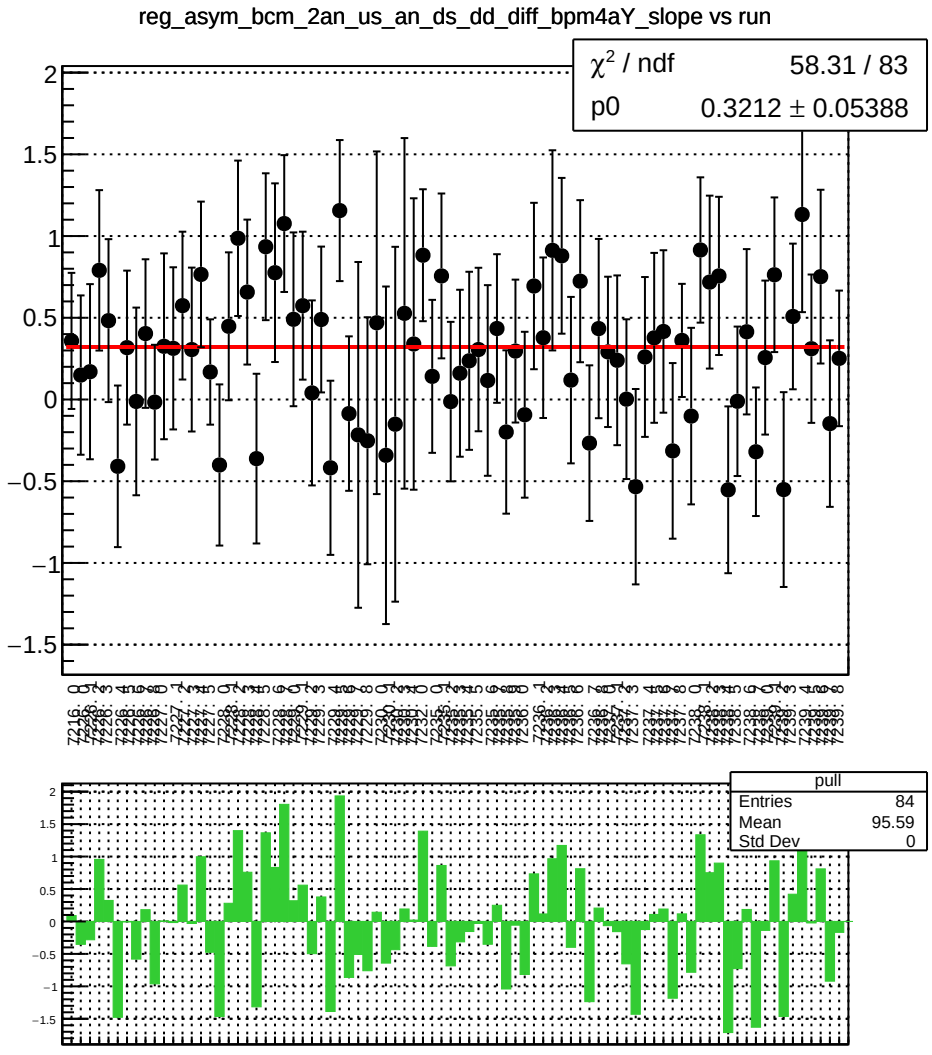

pull1D
Entries 84
Mean 0.02293
Std Dev 0.8347

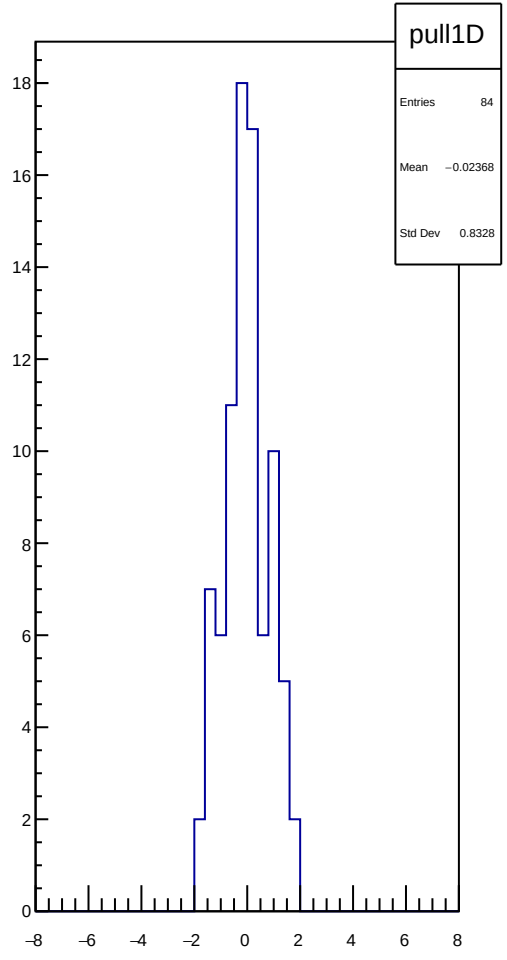

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 94.83 / 83
p0 −0.04594 ± 0.007226
pull
Entries 84
Mean −529.6
Std Dev 0

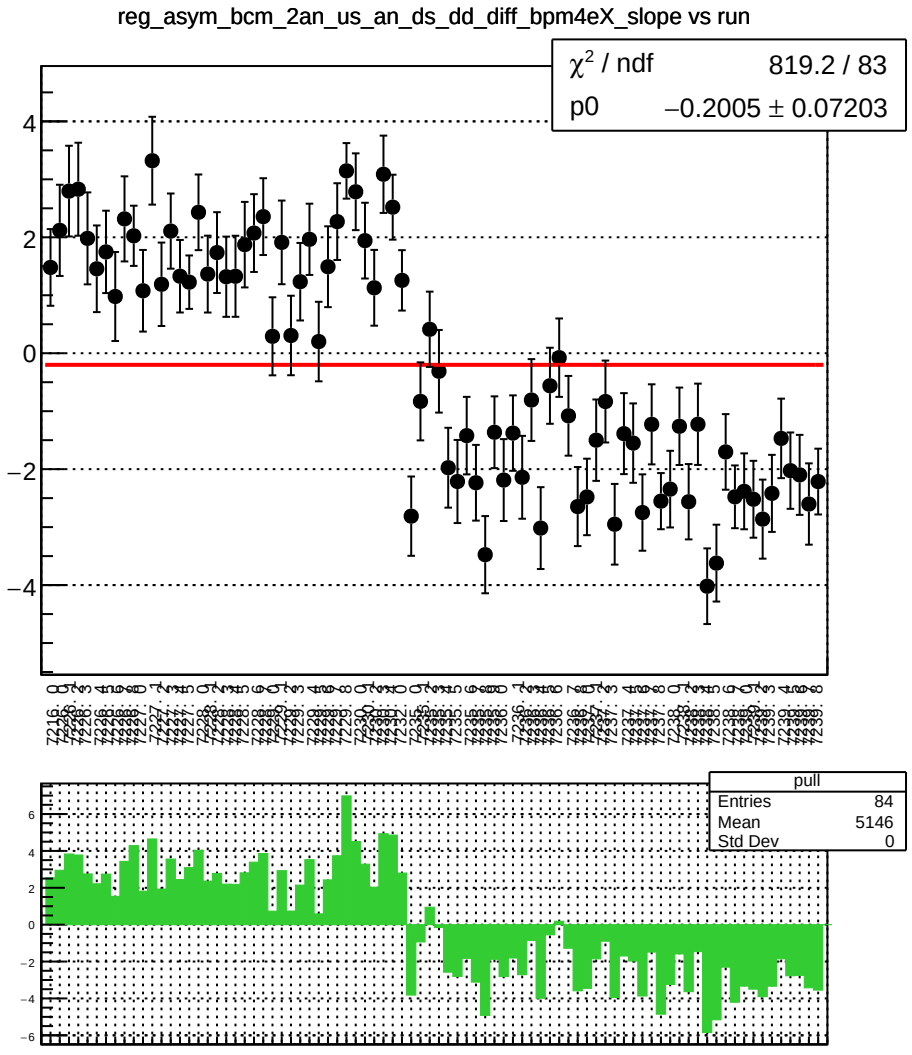

pull1D
Entries 84
Mean 0.009483
Std Dev 1.062

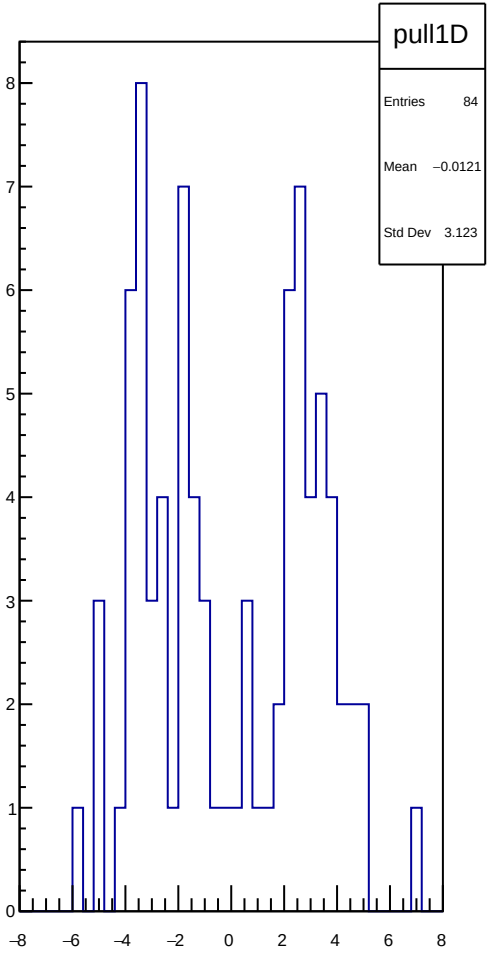

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 838.7 / 83
p0 0.1486 ± 0.07061
pull
Entries 84
Mean −1812
Std Dev 0

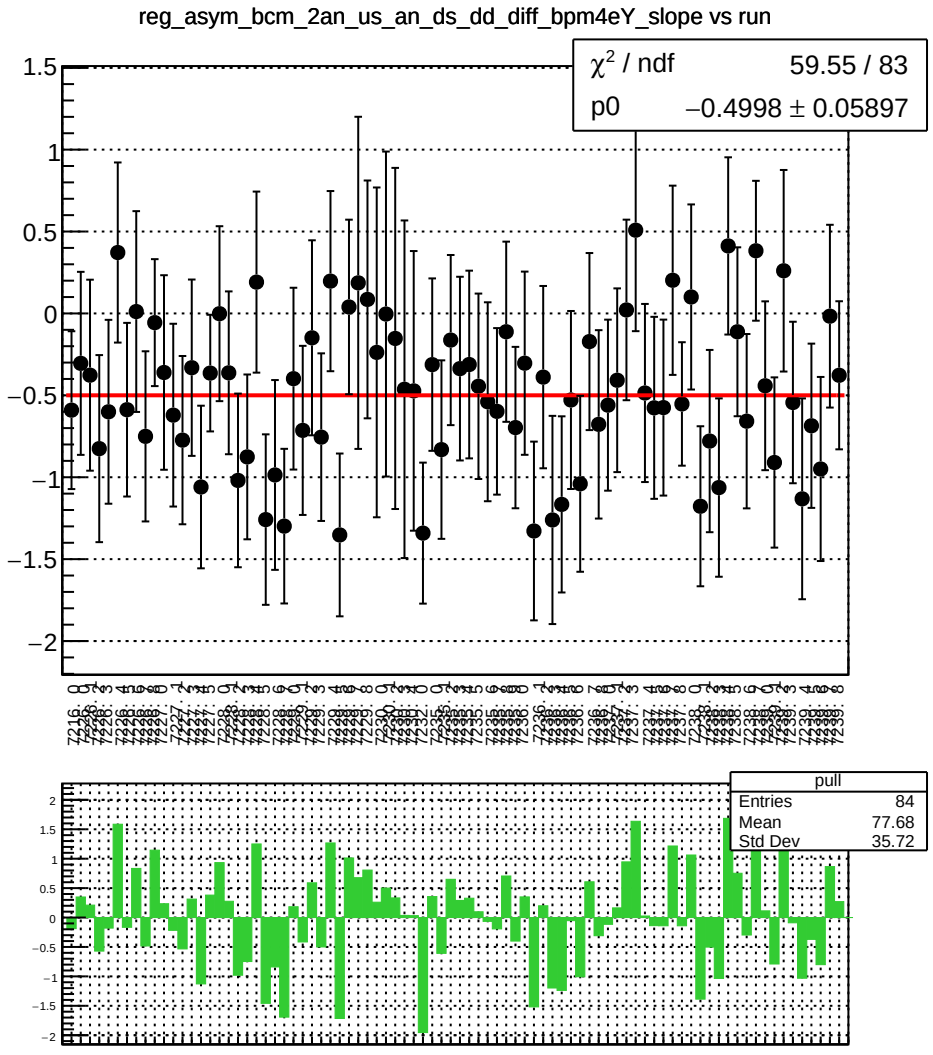

pull1D
Entries 84
Mean −0.03362
Std Dev 3.16

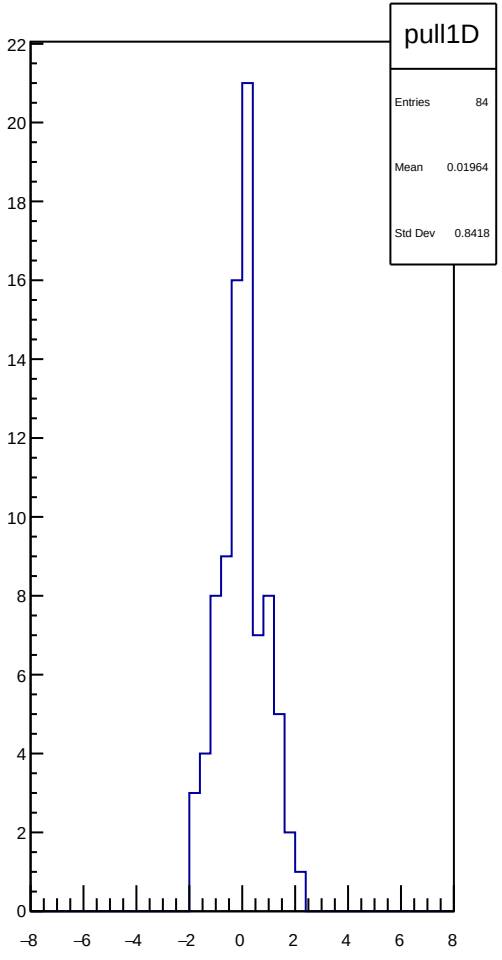

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 58.31 / 83
p0 0.3212 ± 0.05388
pull
Entries 84
Mean 95.59
Std Dev 0

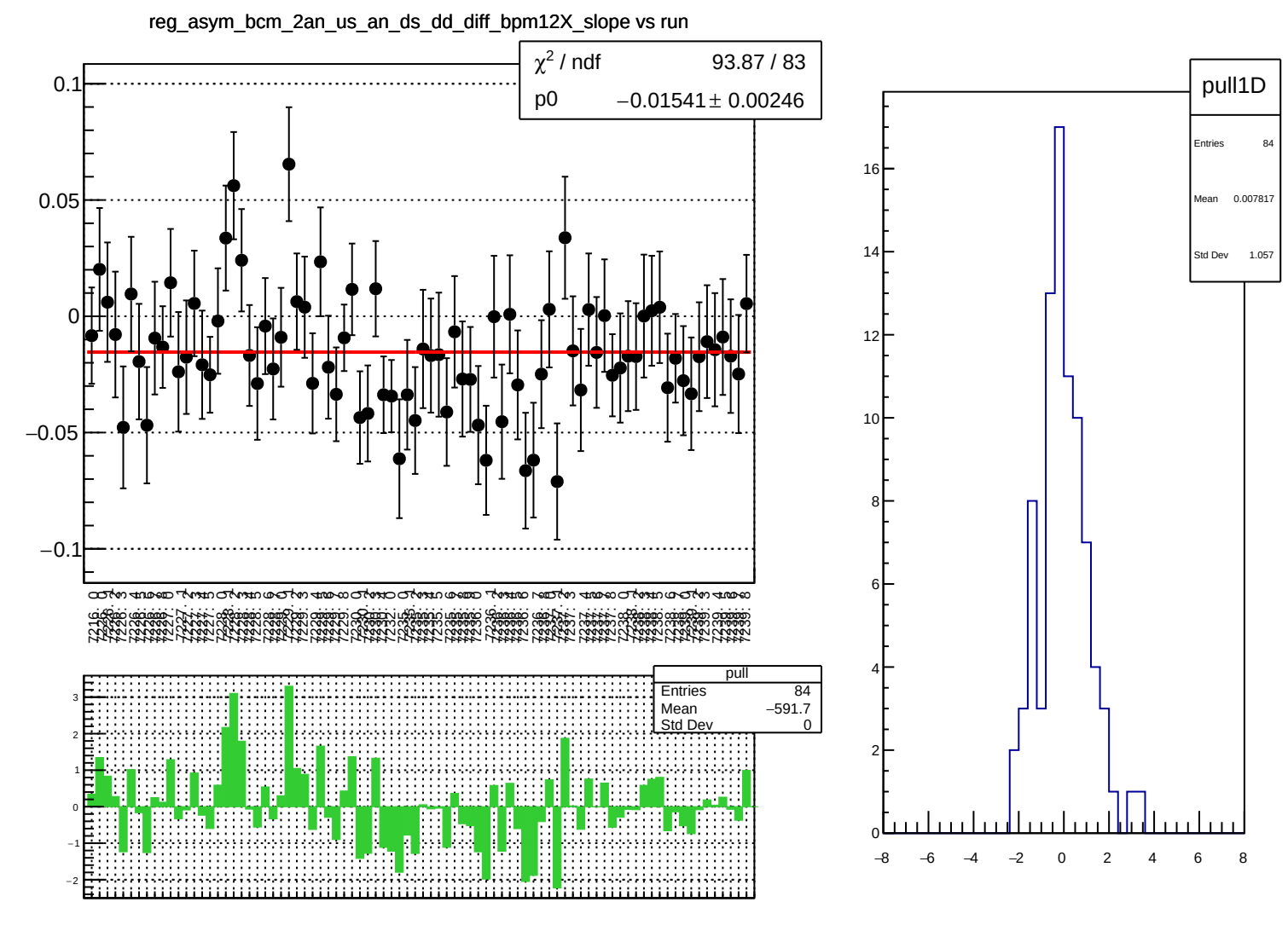

pull1D
Entries 84
Mean −0.02368
Std Dev 0.8328

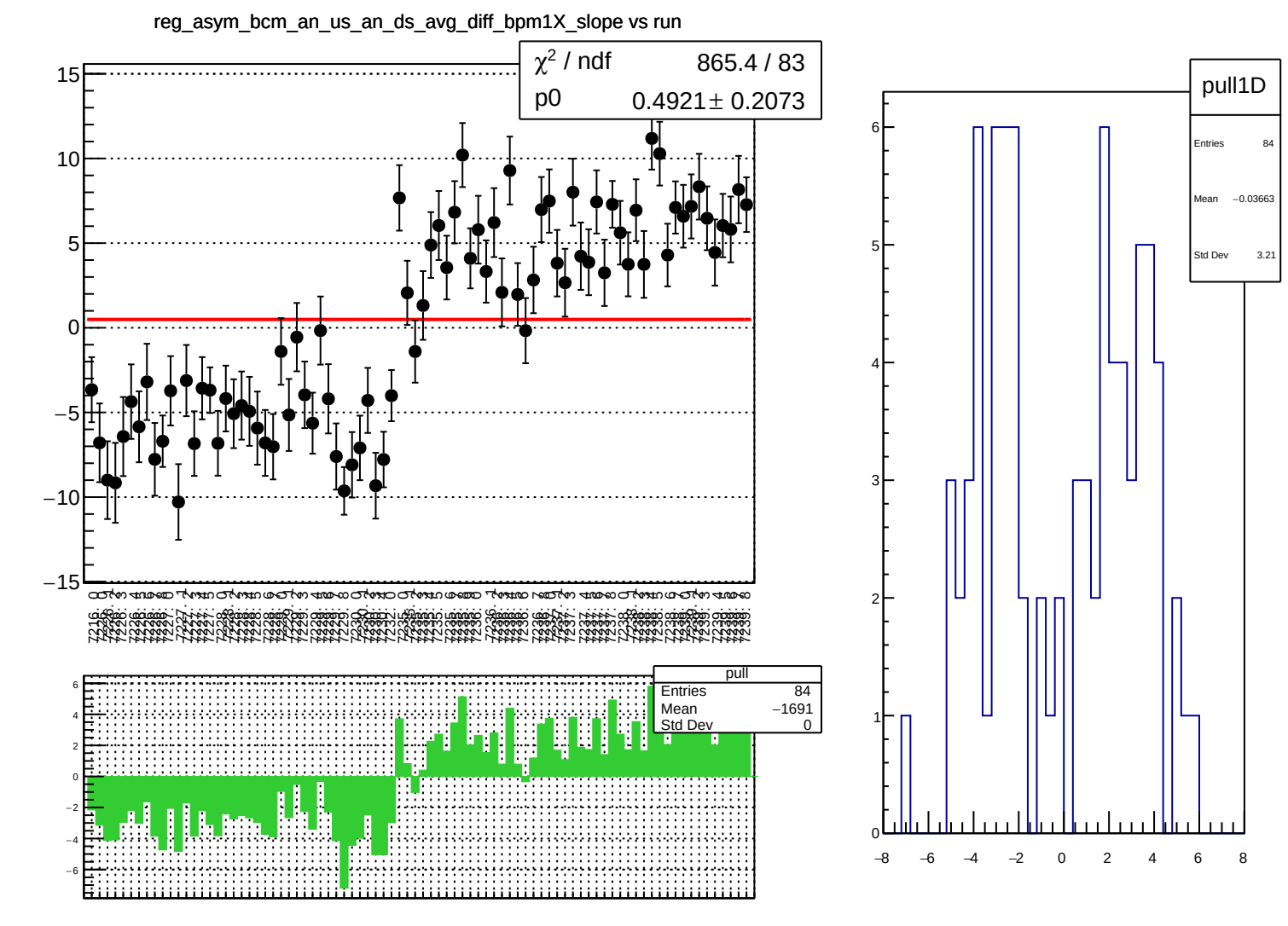

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 819.2 / 83
p0 −0.2005 ± 0.07203
pull
Entries 84
Mean 5146
Std Dev 0

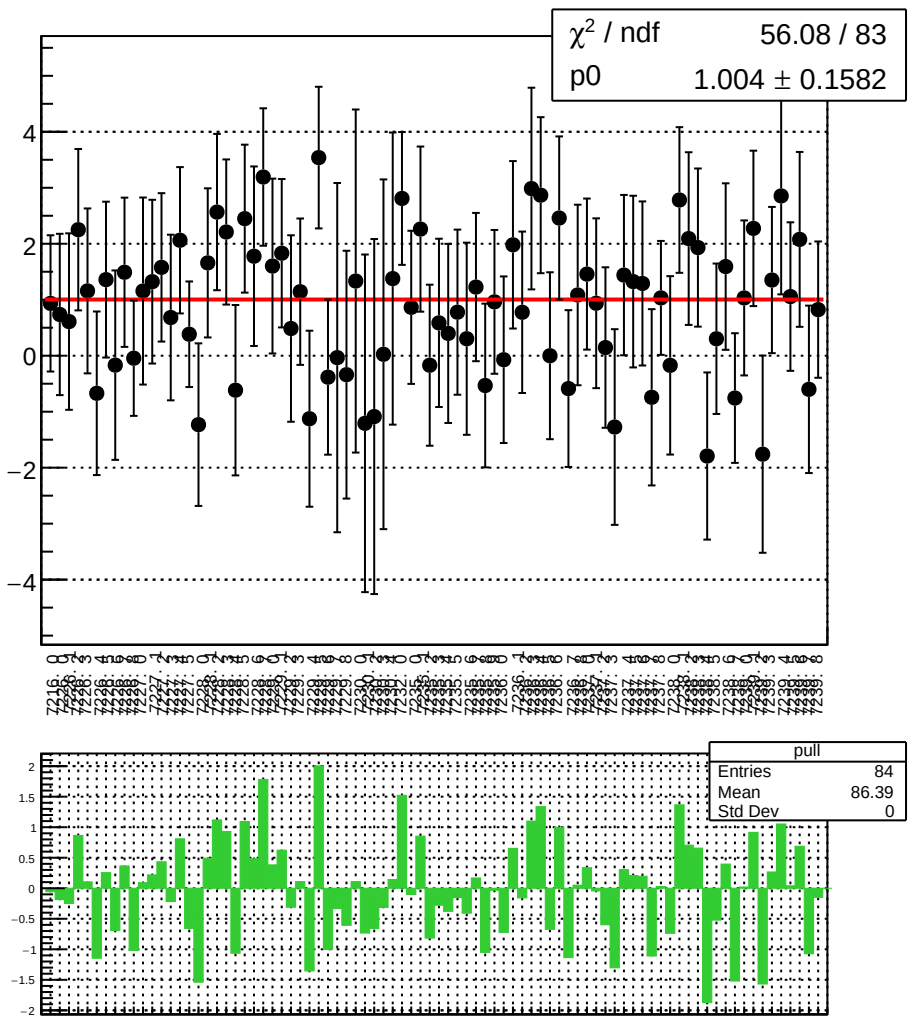

pull1D
Entries 84
Mean −0.0121
Std Dev 3.123

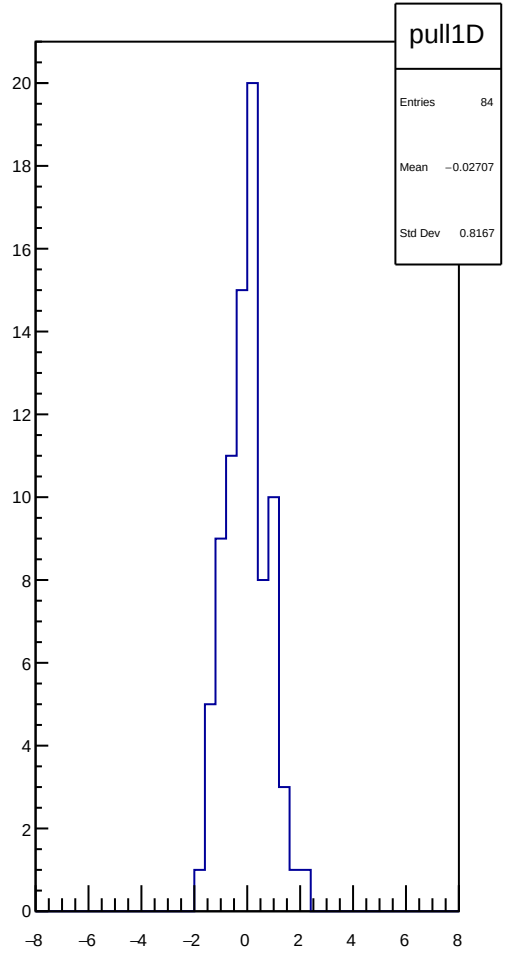

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 59.55 / 83
p0 −0.4998 ± 0.05897
pull
Entries 84
Mean 77.68
Std Dev 35.72

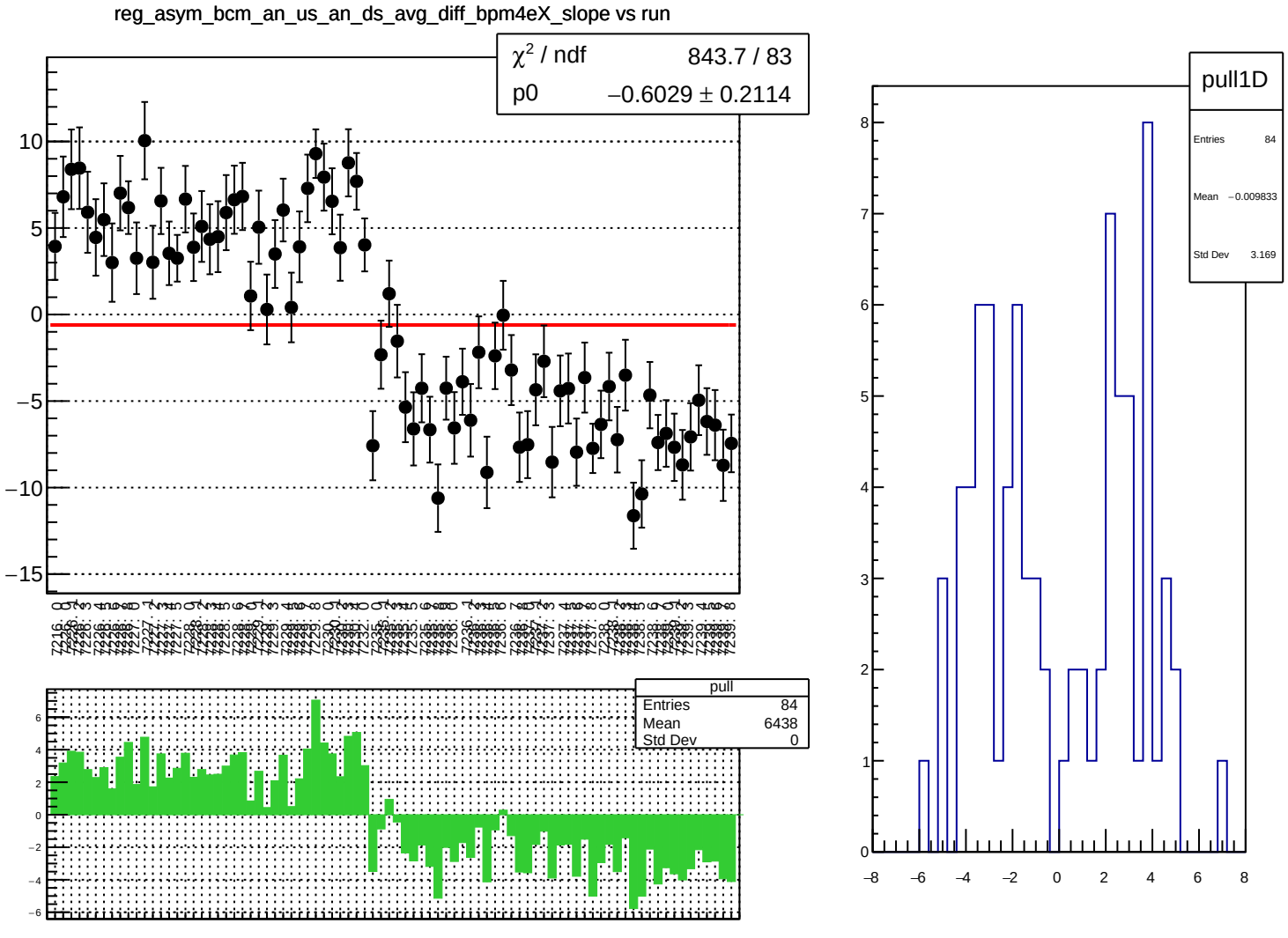

pull1D
Entries 84
Mean 0.01964
Std Dev 0.8418

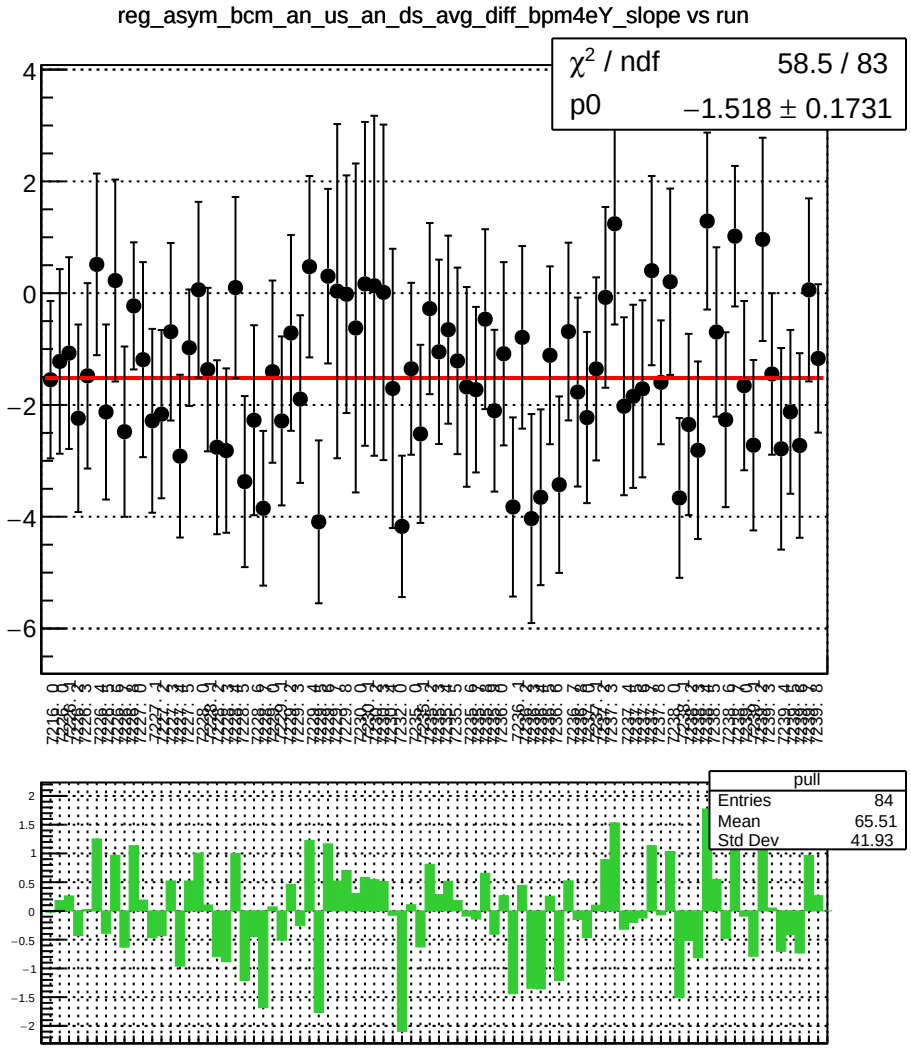

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 93.87 / 83
p0 −0.01541 ± 0.00246
pull
Entries 84
Mean −591.7
Std Dev 0
pull1D
Entries 84
Mean 0.007817
Std Dev 1.057

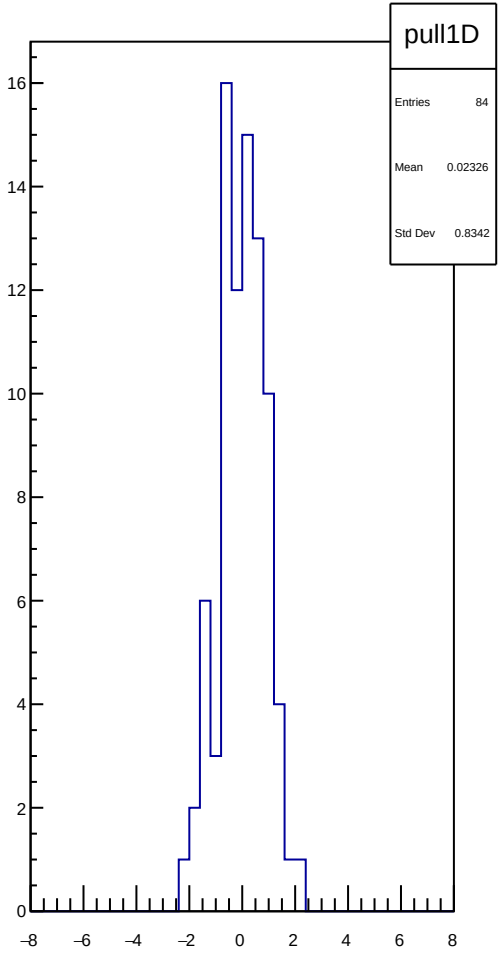

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 865.4 / 83
p0 0.4921± 0.2073
pull
Entries 84
Mean −1691
Std Dev 0
pull1D
Entries 84
Mean −0.03663
Std Dev 3.21

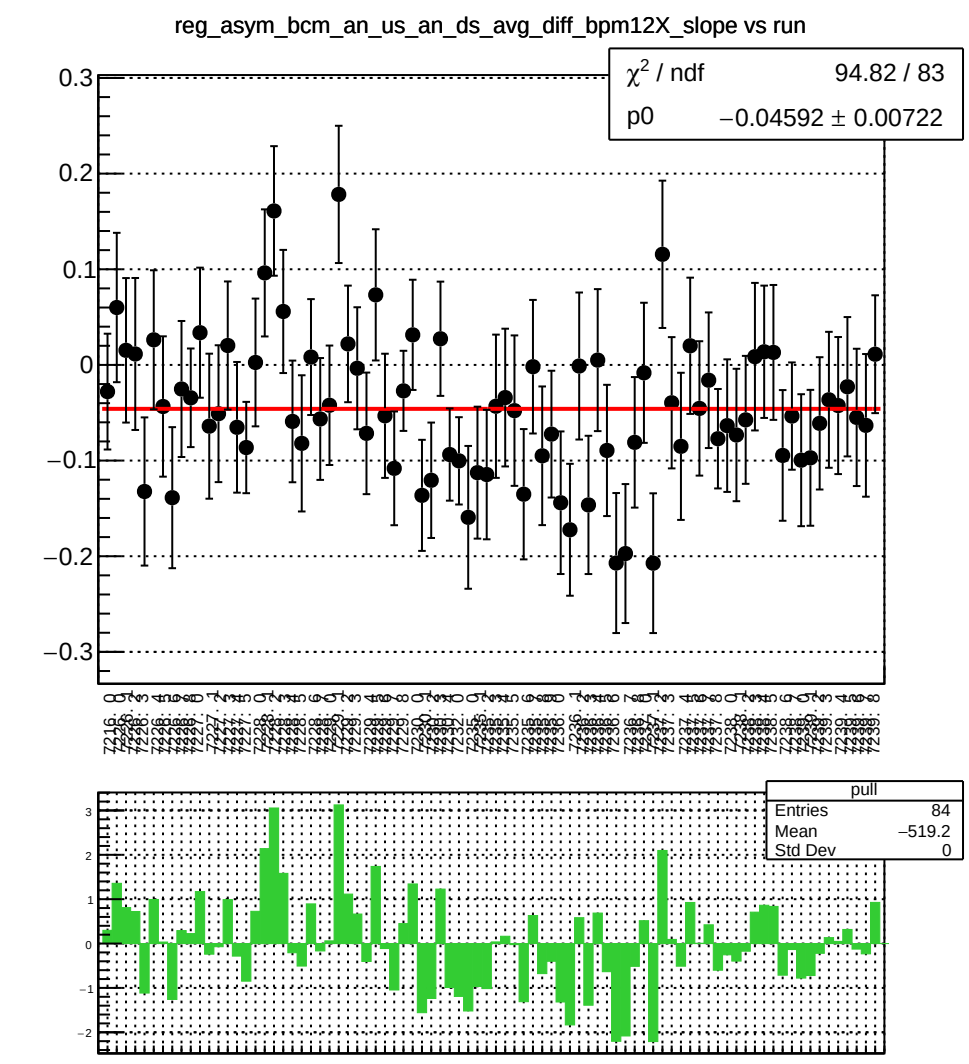

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 56.08 / 83
p0 1.004 ± 0.1582
pull
Entries 84
Mean 86.39
Std Dev 0

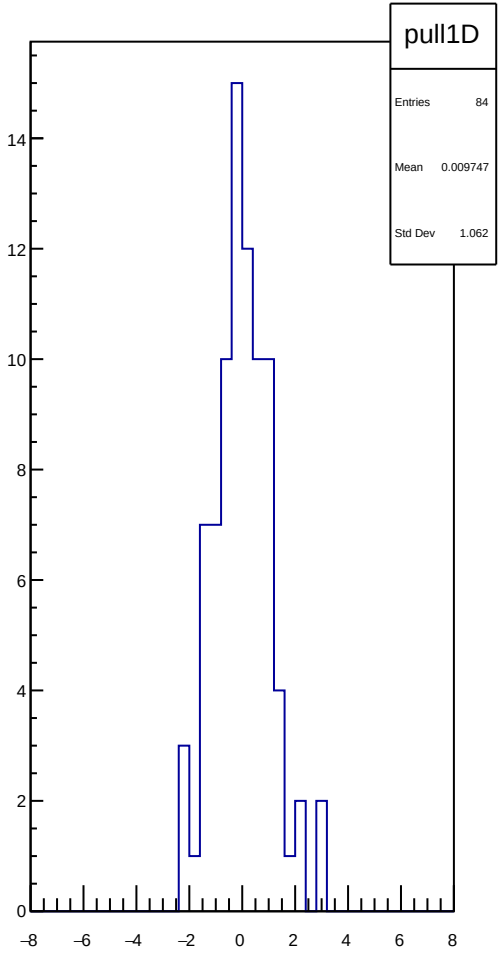

pull1D
Entries 84
Mean −0.02707
Std Dev 0.8167

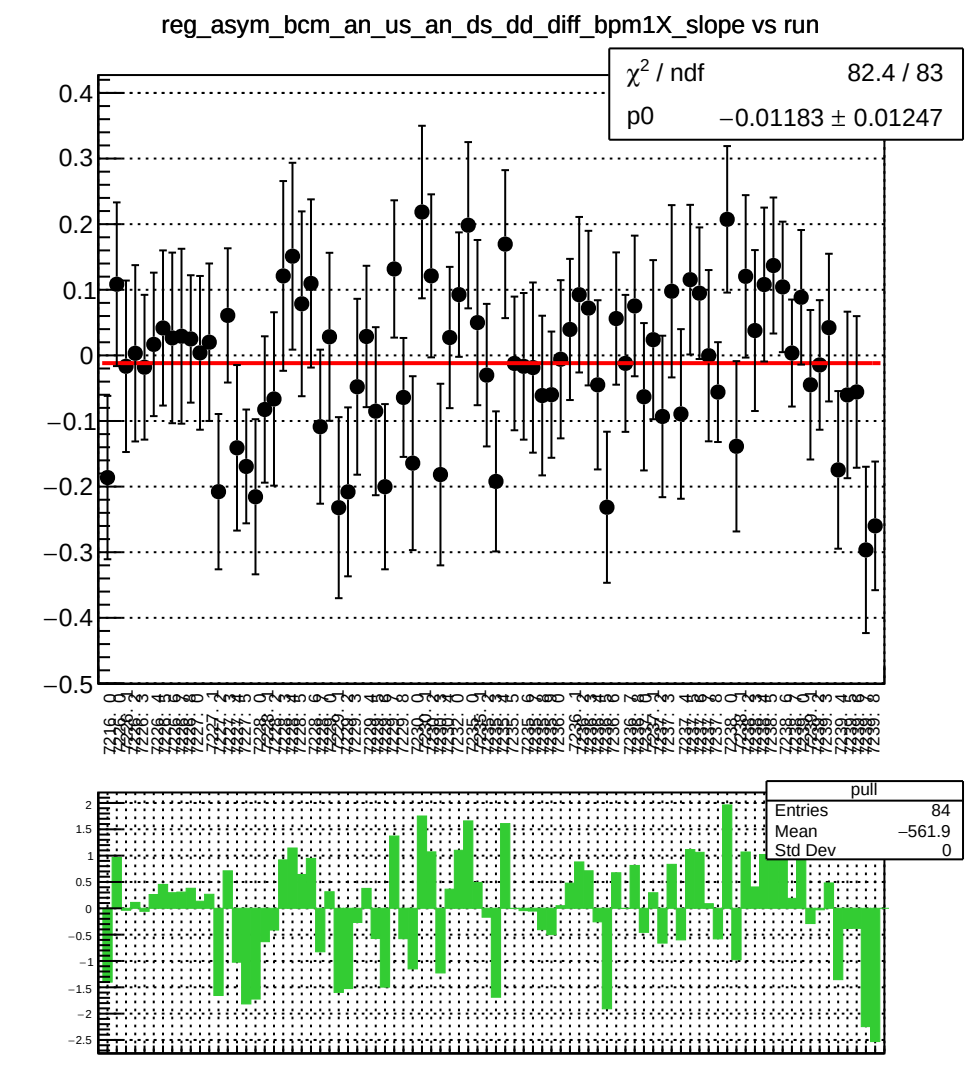

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 843.7 / 83
p0 −0.6029 ± 0.2114
pull
Entries 84
Mean 6438
Std Dev 0
pull1D
Entries 84
Mean −0.009833
Std Dev 3.169

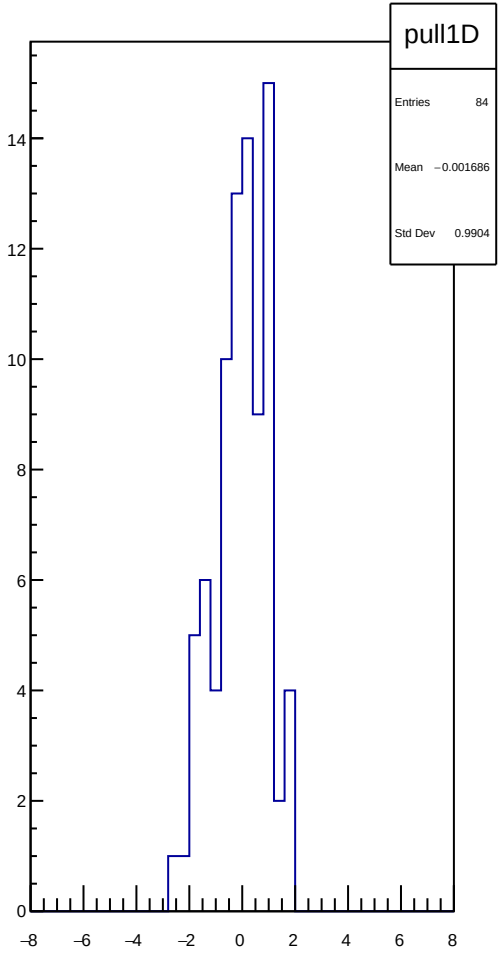

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 58.5 / 83
p0 −1.518 ± 0.1731
pull
Entries 84
Mean 65.51
Std Dev 41.93

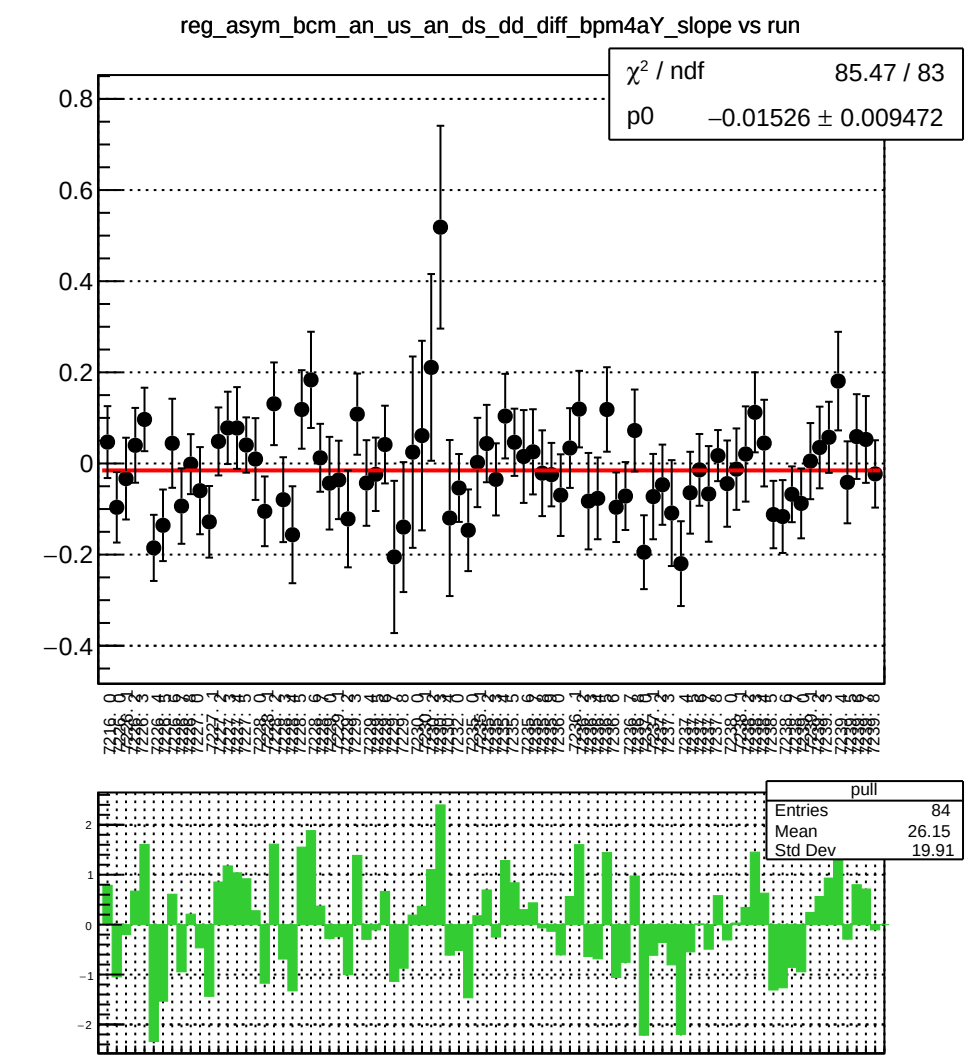

pull1D
Entries 84
Mean 0.02326
Std Dev 0.8342

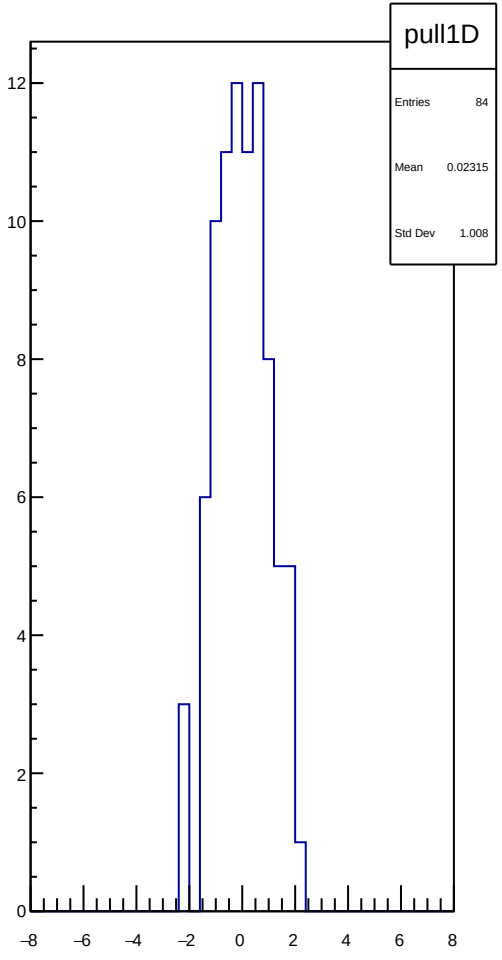

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 94.82 / 83
p0 −0.04592 ± 0.00722
pull
Entries 84
Mean −519.2
Std Dev 0

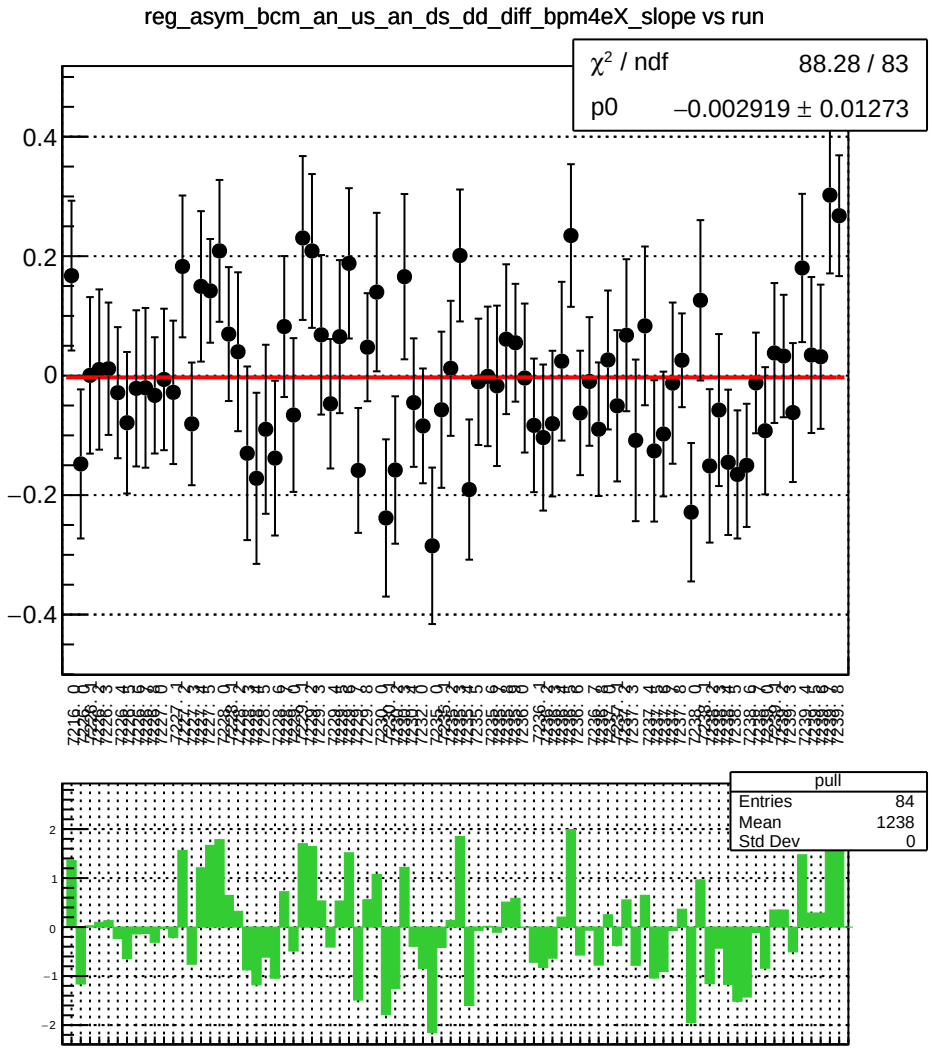

pull1D
Entries 84
Mean 0.009747
Std Dev 1.062

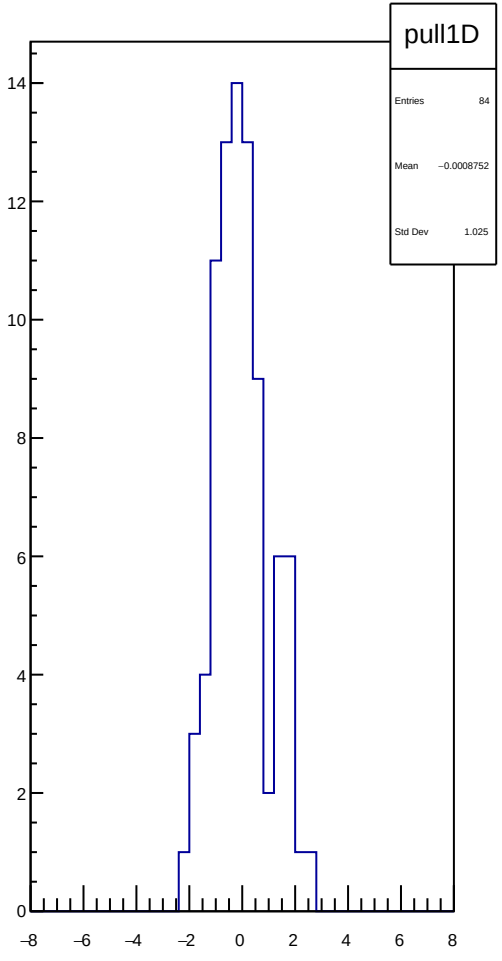

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 82.4 / 83
p0 −0.01183 ± 0.01247
pull
Entries 84
Mean −561.9
Std Dev 0

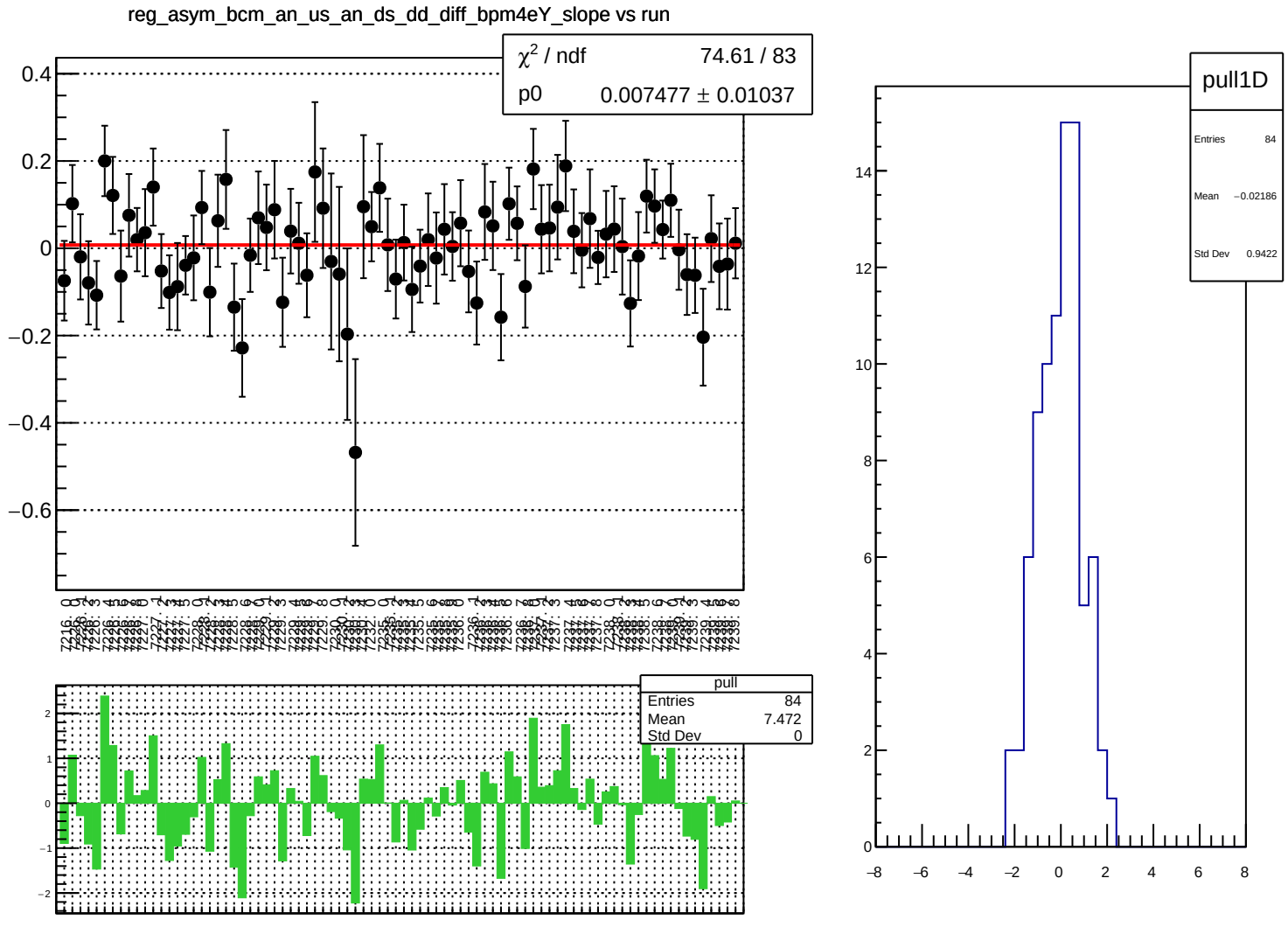

pull1D
Entries 84
Mean −0.001686
Std Dev 0.9904

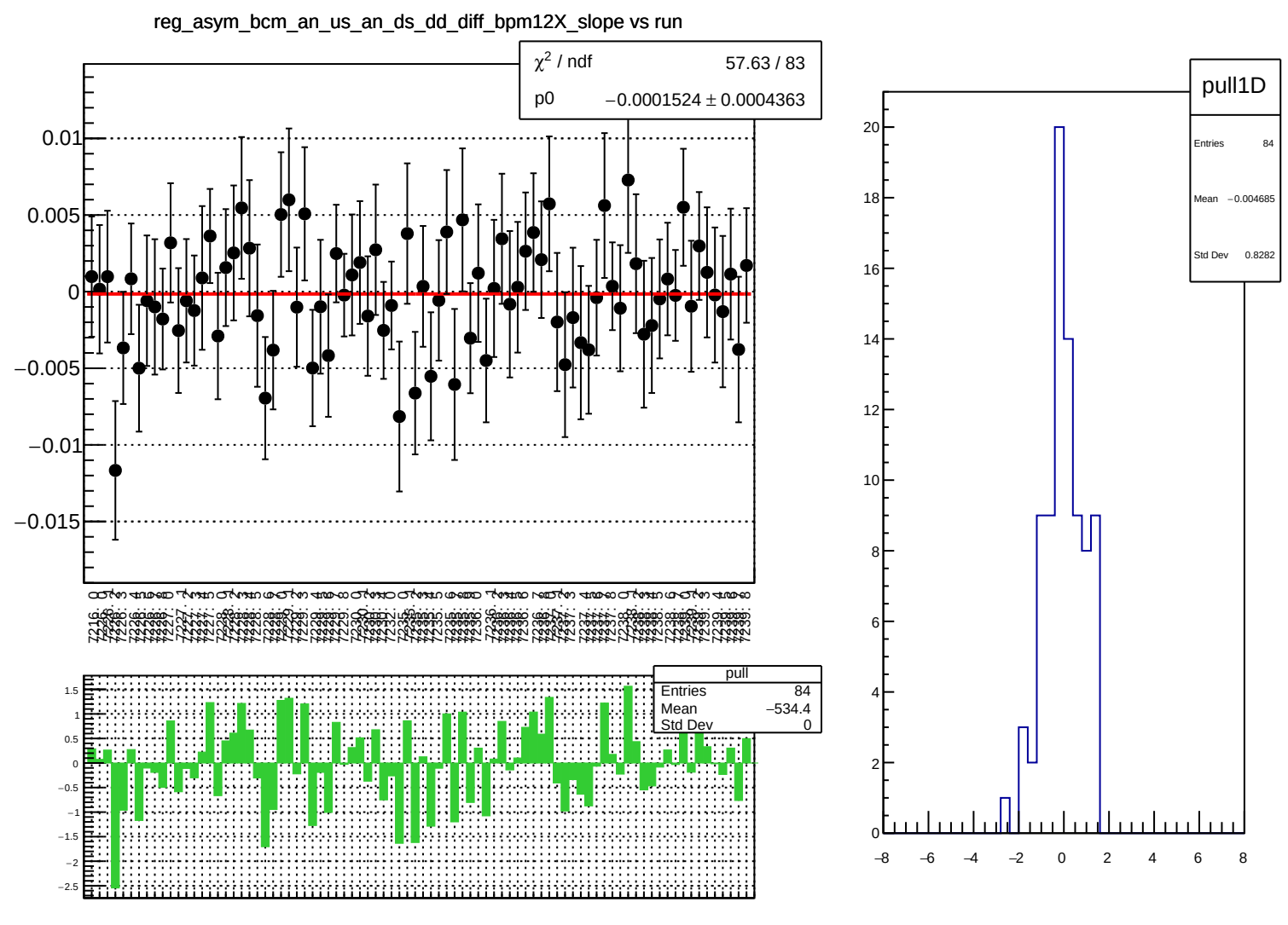

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 85.47 / 83
p0 −0.01526 ± 0.009472
pull
Entries 84
Mean 26.15
Std Dev 19.91

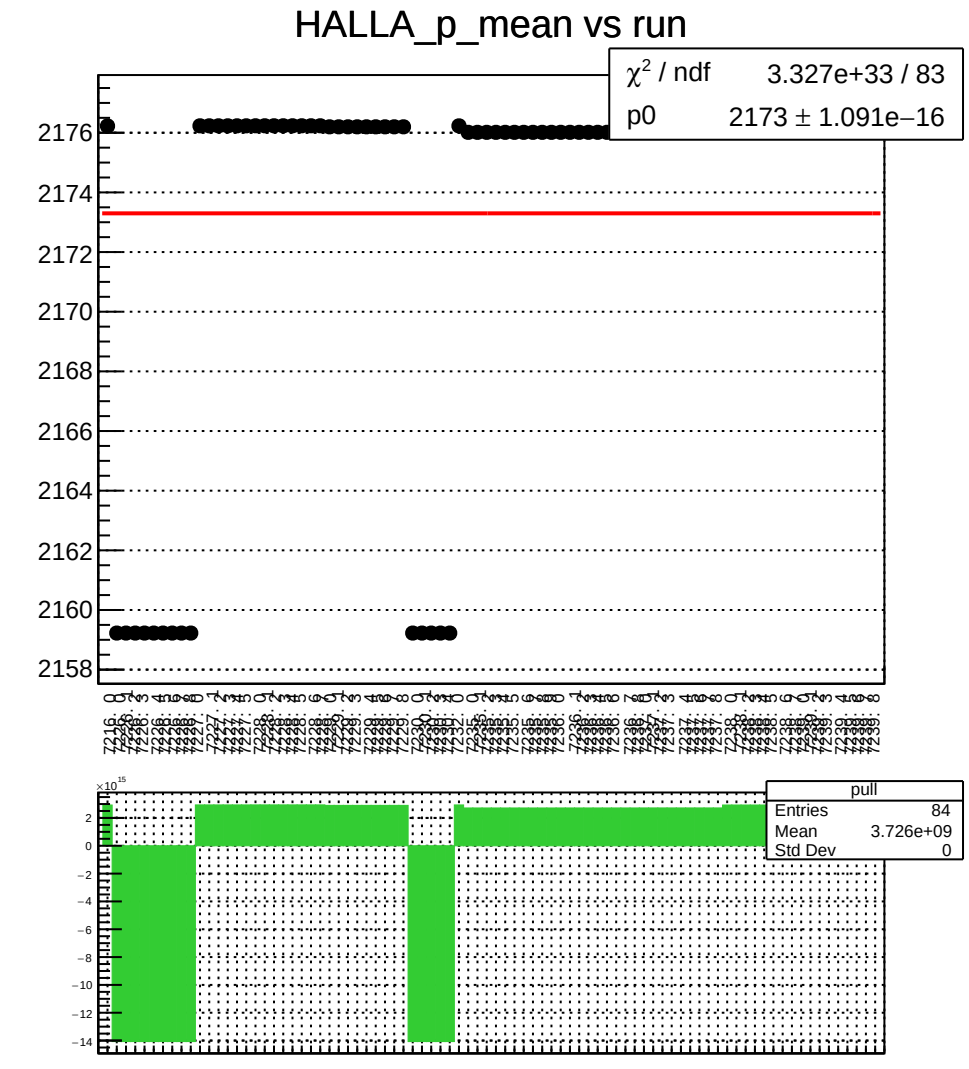

pull1D
Entries 84
Mean 0.02315
Std Dev 1.008

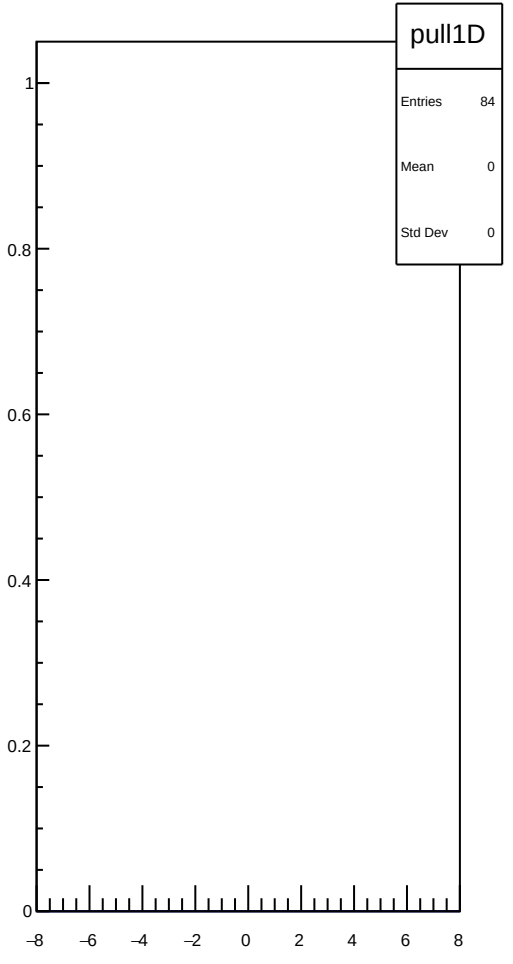

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 88.28 / 83
p0 −0.002919 ± 0.01273
pull
Entries 84
Mean 1238
Std Dev 0

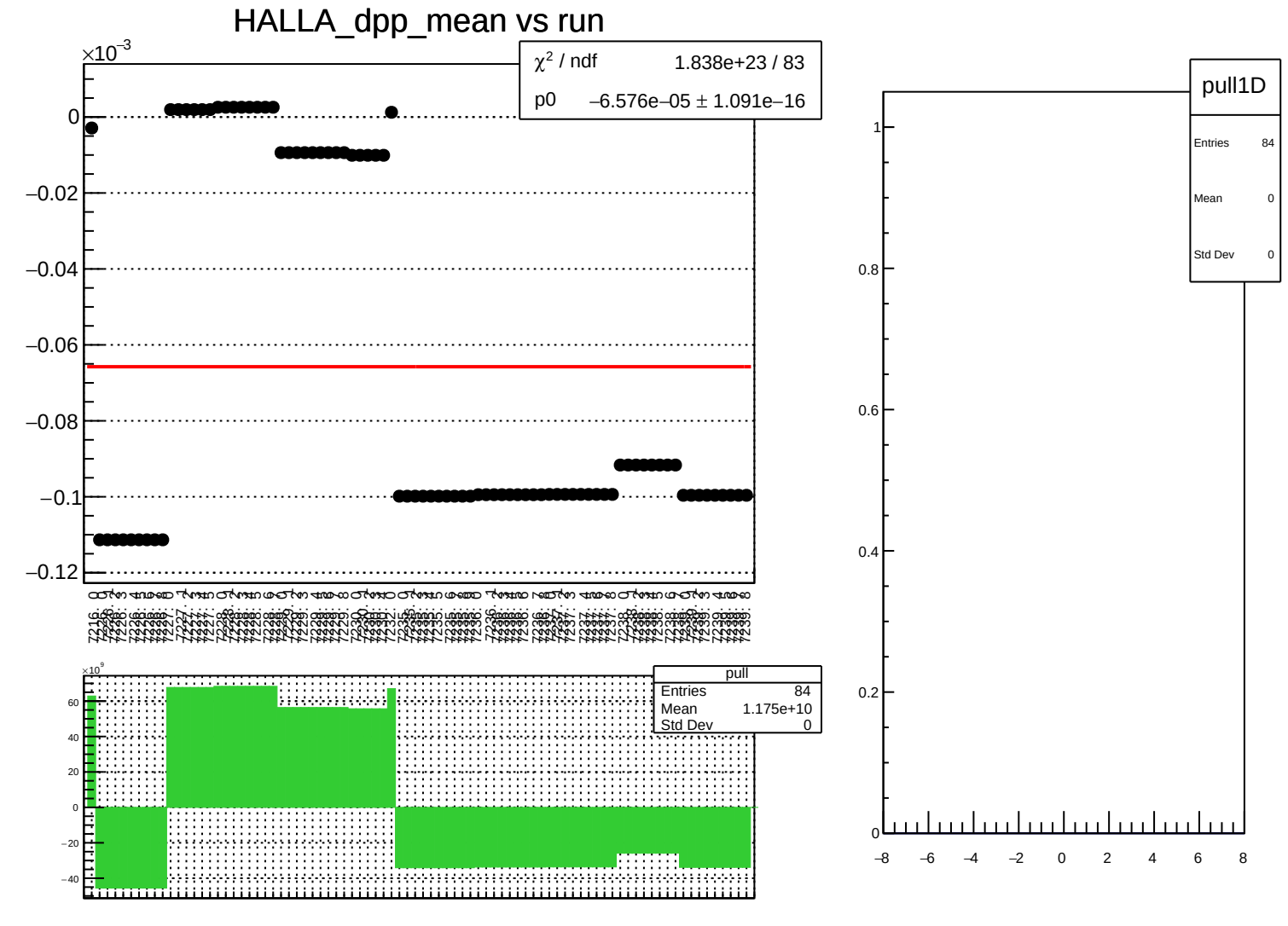

pull1D
Entries 84
Mean −0.0008752
Std Dev 1.025

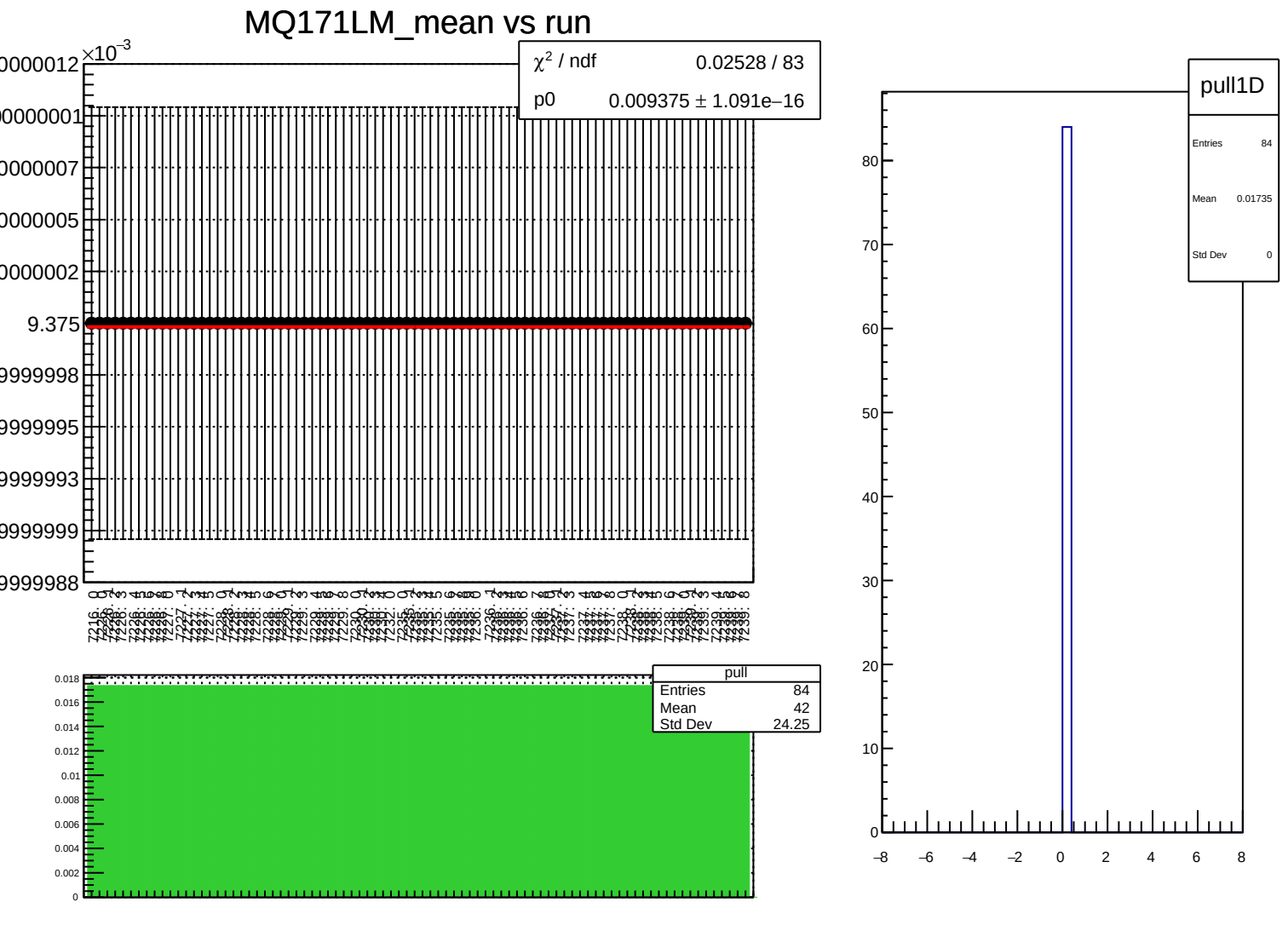

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 74.61 / 83
p0 0.007477 ± 0.01037
pull
Entries 84
Mean 7.472
Std Dev 0
pull1D
Entries 84
Mean −0.02186
Std Dev 0.9422

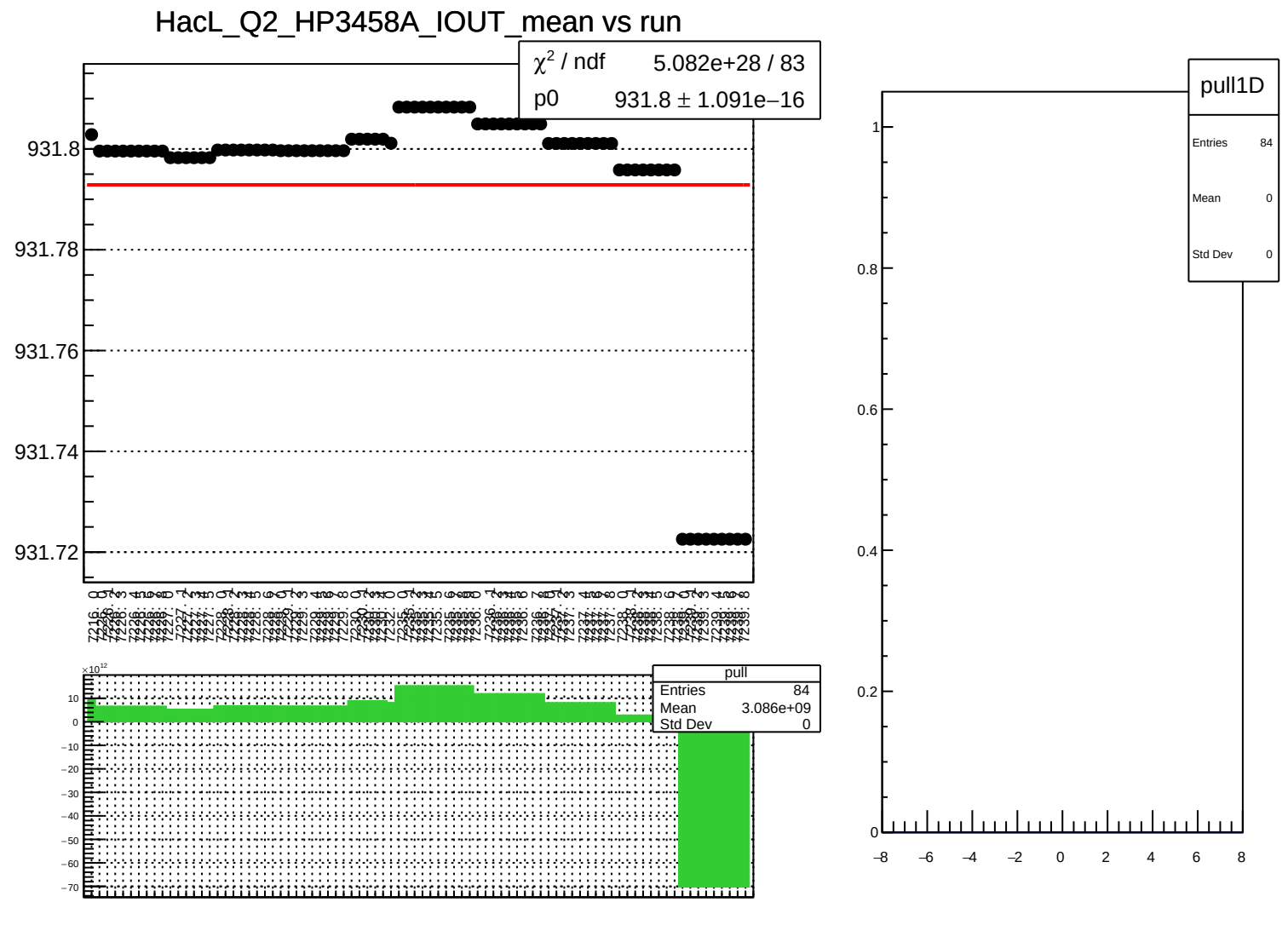

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 57.63 / 83
p0 −0.0001524 ± 0.0004363
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 84
Mean −534.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 84
Mean −0.004685
Std Dev 0.8282
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

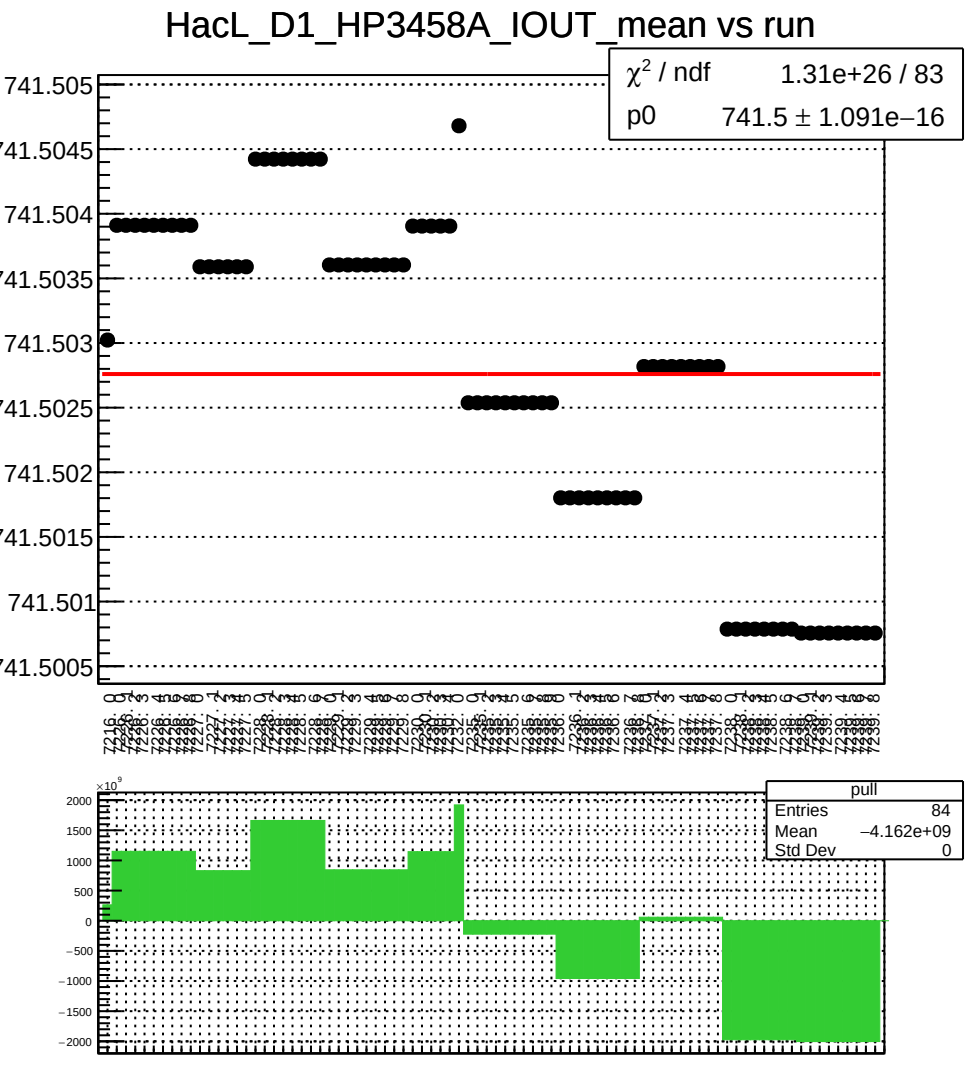

HALLA_p_mean vs run
χ² / ndf 3.327e+33 / 83
p0 2173 ± 1.091e−16
2176
2174
2172
2170
2168
2166
2164
2162
2160
2158
pull
Entries 84
Mean 3.726e+09
Std Dev 0
×10¹⁵
2
0
−2
−4
−6
−8
−10
−12
−14

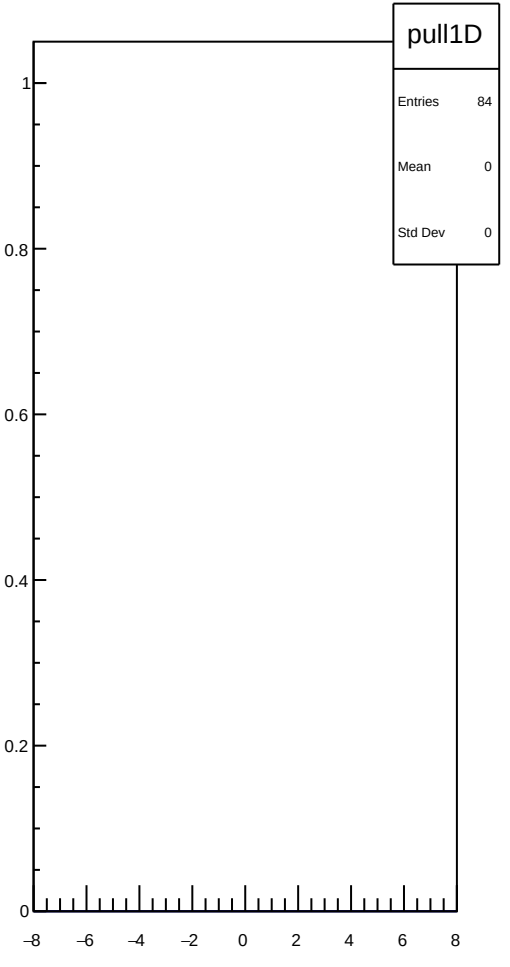

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

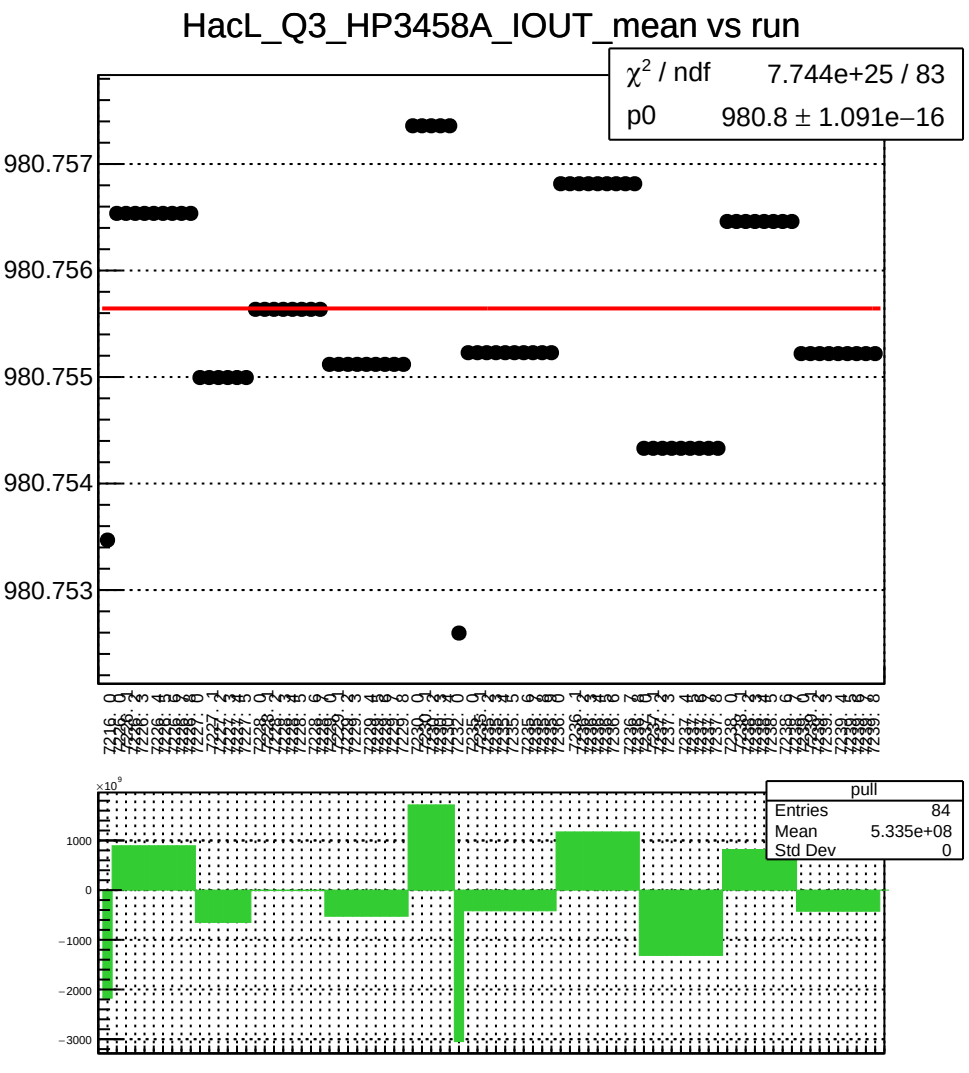

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 1.838e+23 / 83
p0 −6.576e−05 ± 1.091e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
×10⁹
pull
Entries 84
Mean 1.175e+10
Std Dev 0
60
40
20
0
−20
−40
pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

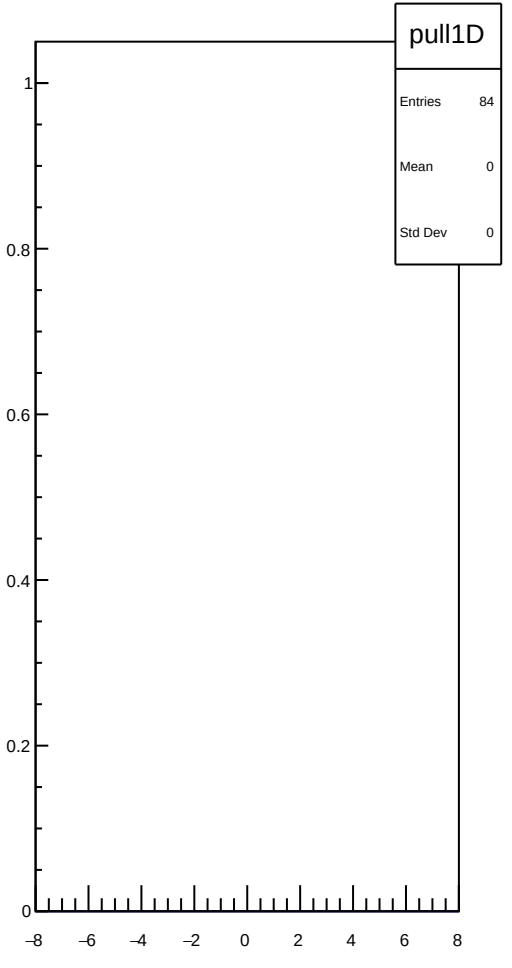

MQ171LM_mean vs run
×10⁻³
χ² / ndf 0.02528 / 83
p0 0.009375 ± 1.091e−16
pull
Entries 84
Mean 42
Std Dev 24.25
pull1D
Entries 84
Mean 0.01735
Std Dev 0

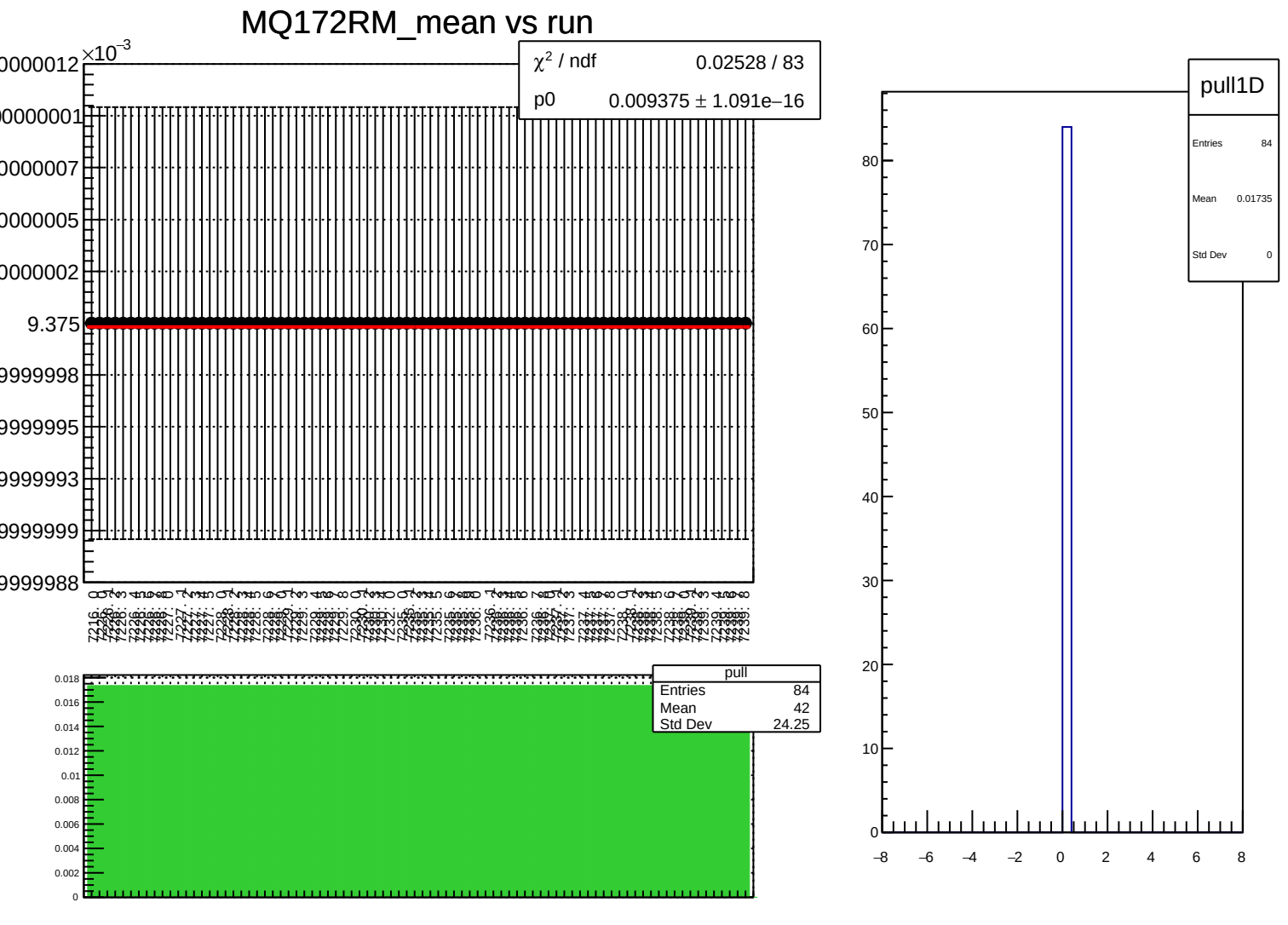

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 5.082e+28 / 83
p0 931.8 ± 1.091e−16
931.8
931.78
931.76
931.74
931.72
pull
Entries 84
Mean 3.086e+09
Std Dev 0
pull1D
Entries 84
Mean 0
Std Dev 0

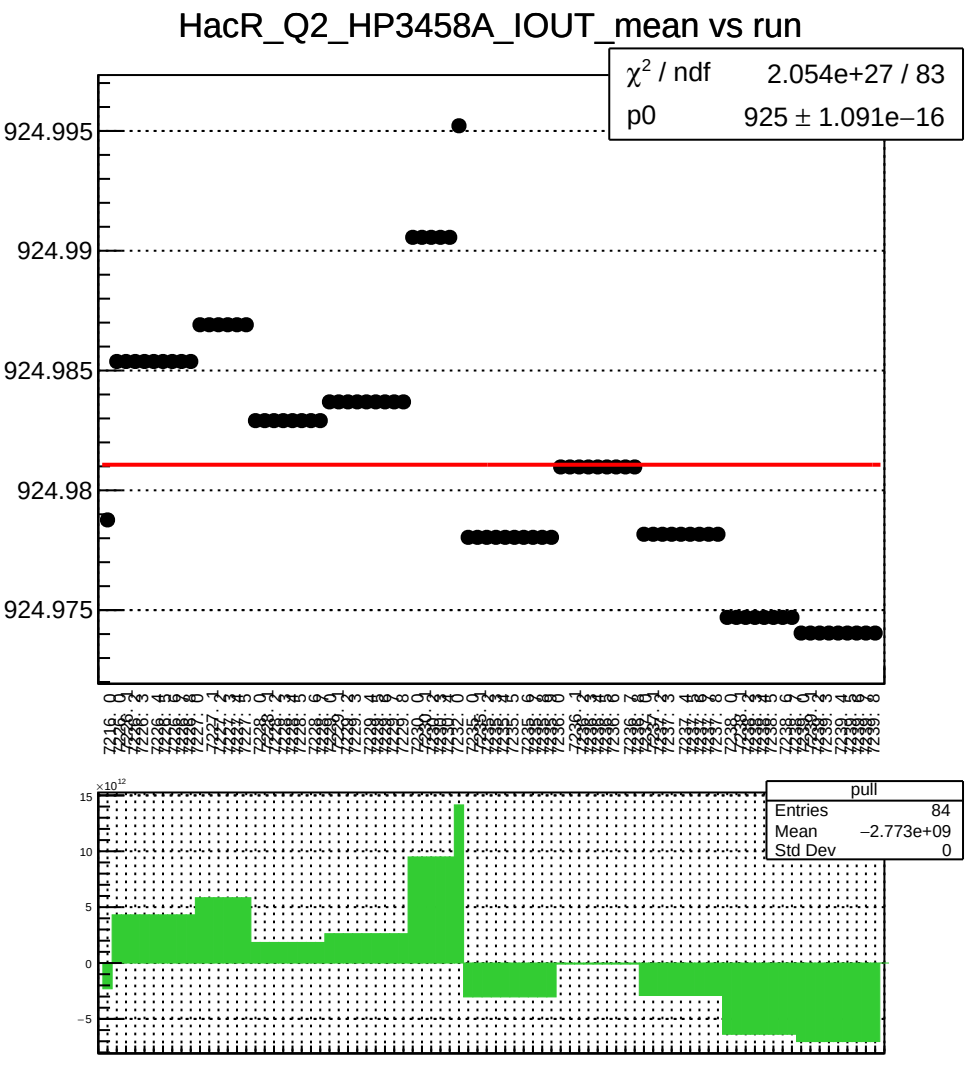

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.31e+26 / 83
p0 741.5 ± 1.091e−16
741.505
741.5045
741.504
741.5035
741.503
741.5025
741.502
741.5015
741.501
741.5005
pull
Entries 84
Mean −4.162e+09
Std Dev 0
×10⁹
2000
1500
1000
500
0
−500
−1000
−1500
−2000

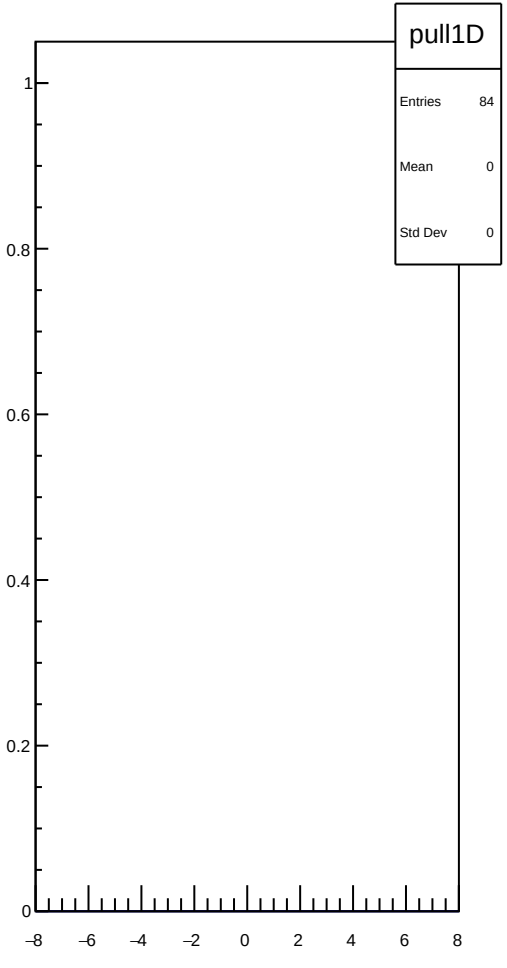

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

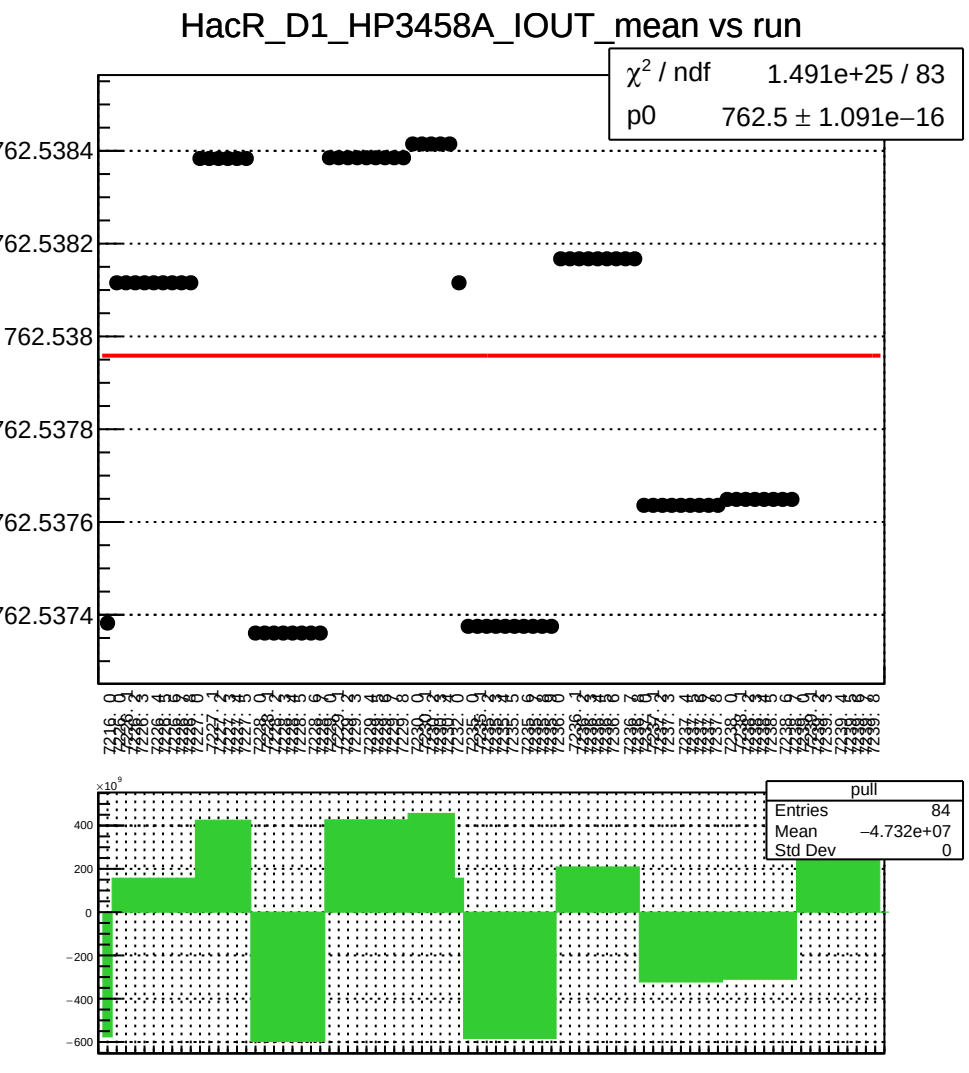

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 7.744e+25 / 83
p0 980.8 ± 1.091e−16
980.757
980.756
980.755
980.754
980.753
×10⁹
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean 5.335e+08
Std Dev 0

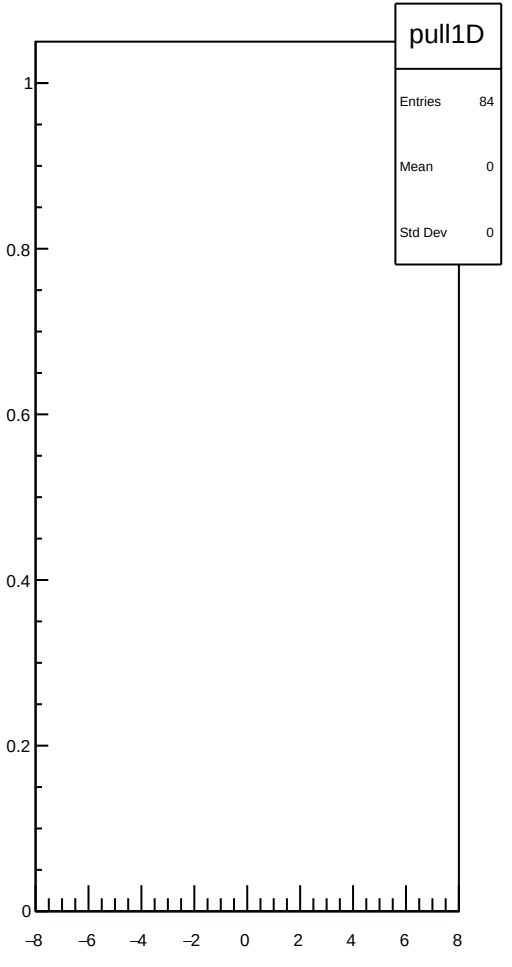

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

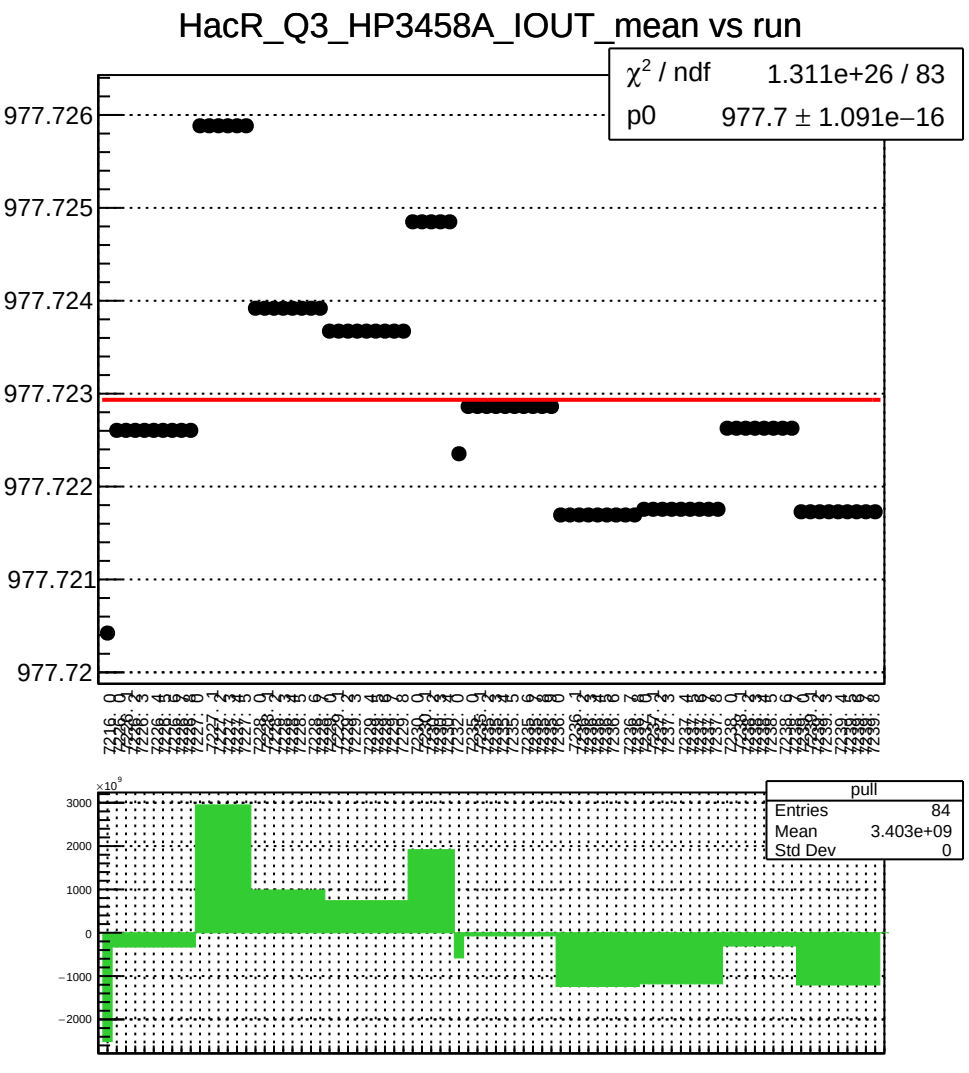

MQ172RM_mean vs run
×10⁻³
χ² / ndf 0.02528 / 83
p0 0.009375 ± 1.091e−16
pull
Entries 84
Mean 42
Std Dev 24.25
pull1D
Entries 84
Mean 0.01735
Std Dev 0

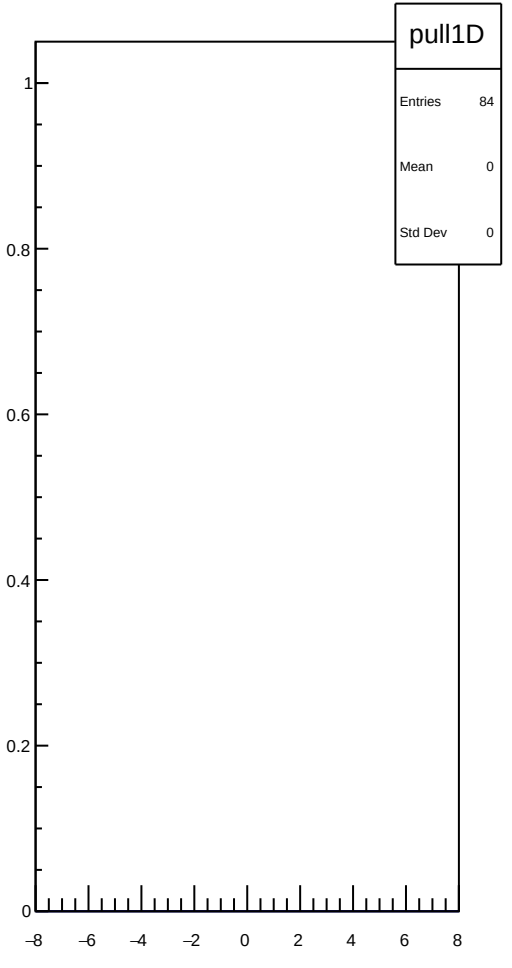

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 2.054e+27 / 83
p0 925 ± 1.091e−16
924.995
924.99
924.985
924.98
924.975
pull
Entries 84
Mean −2.773e+09
Std Dev 0
×10¹²
15
10
5
0
−5

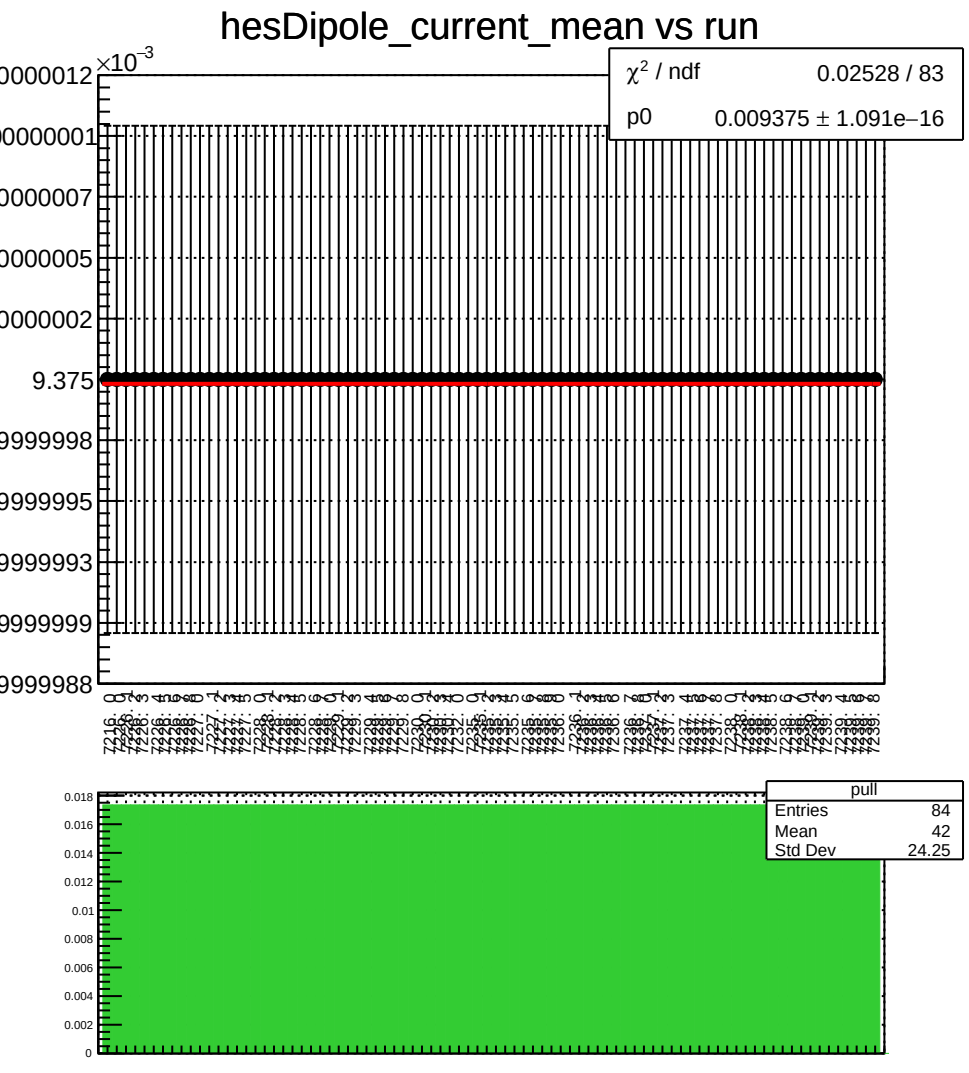

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

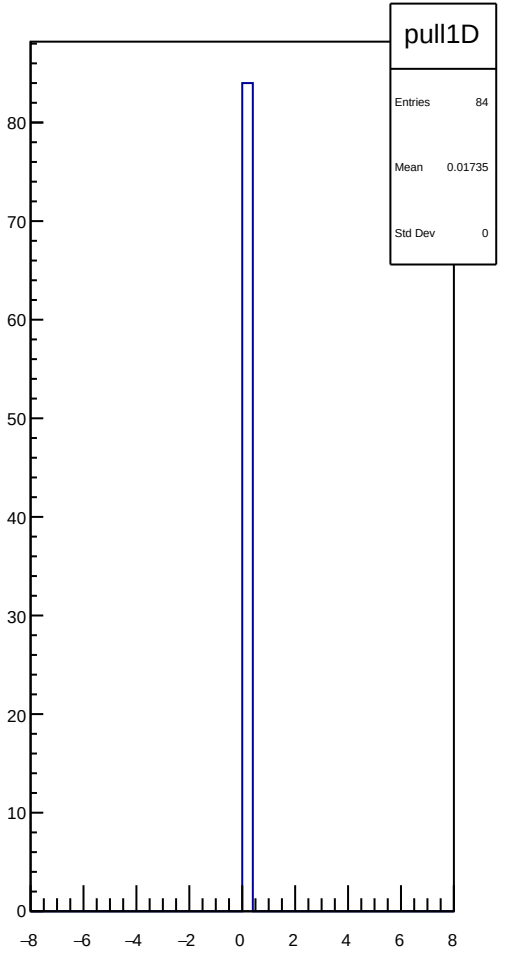

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.491e+25 / 83
p0 762.5 ± 1.091e−16
762.5384
762.5382
762.538
762.5378
762.5376
762.5374
×10⁹
400
200
0
−200
−400
−600
pull
Entries 84
Mean −4.732e+07
Std Dev 0

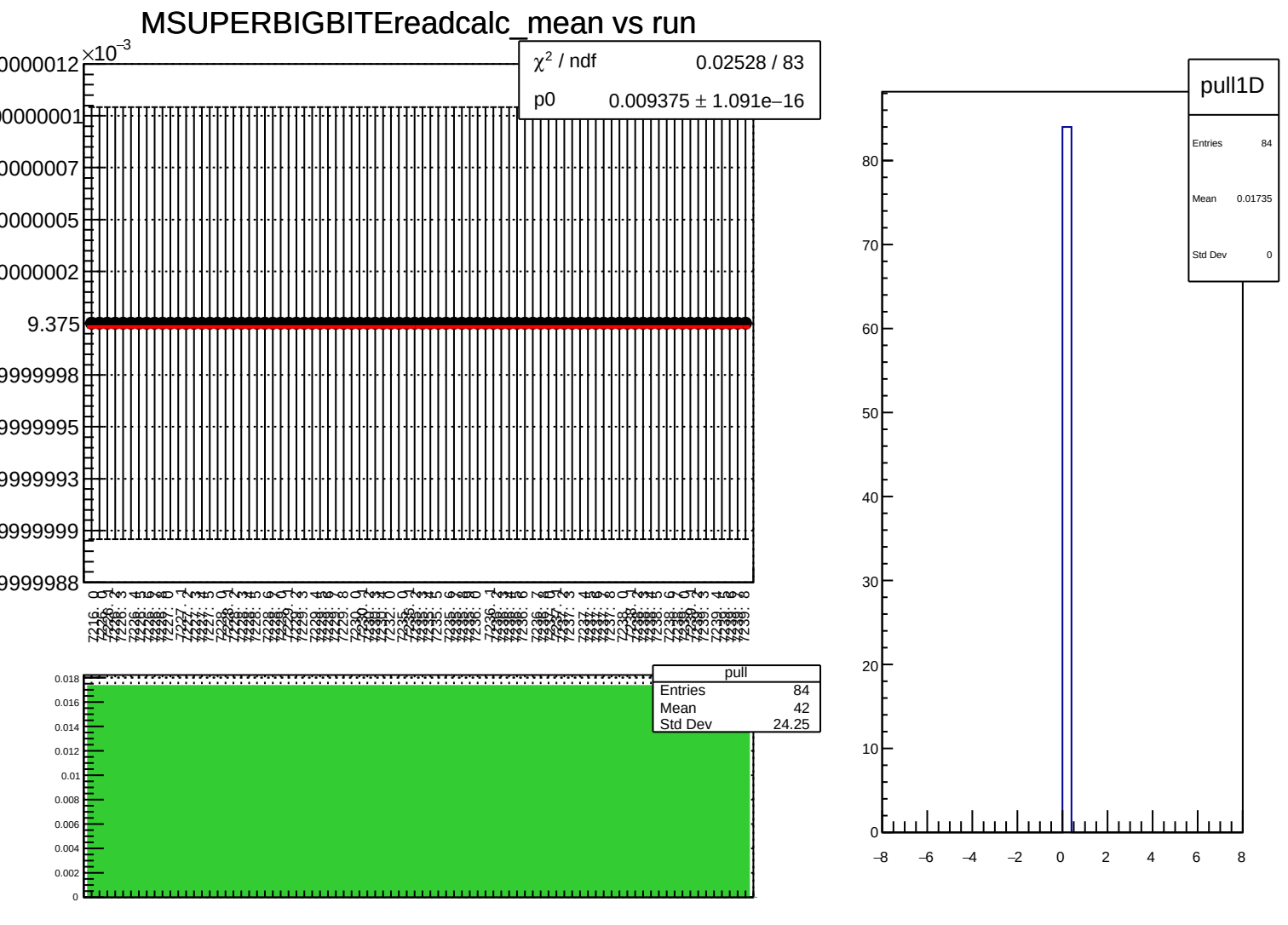

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

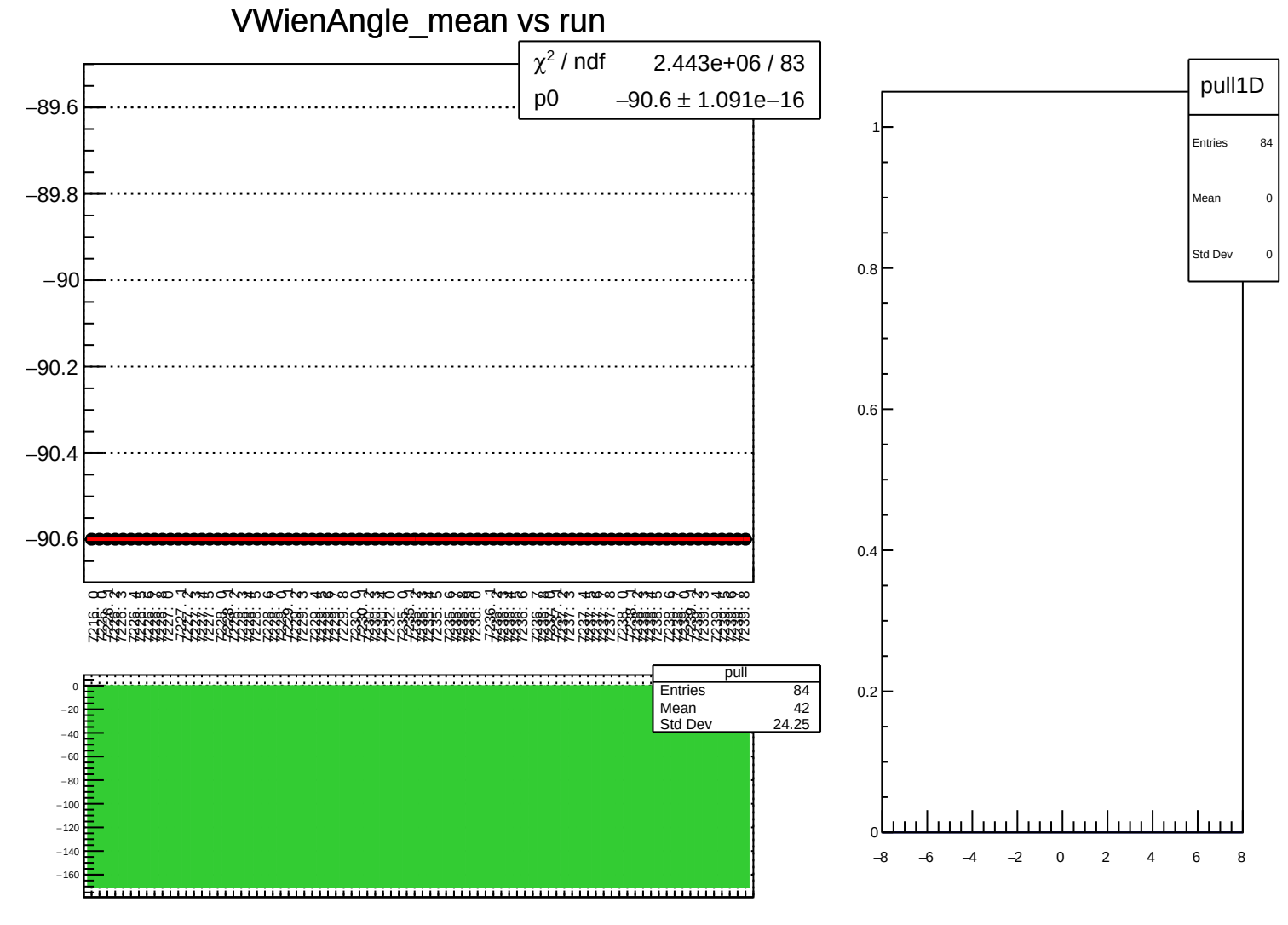

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.311e+26 / 83
p0 977.7 ± 1.091e−16
977.726
977.725
977.724
977.723
977.722
977.721
977.72
pull
Entries 84
Mean 3.403e+09
Std Dev 0
×10⁹
3000
2000
1000
0
−1000
−2000

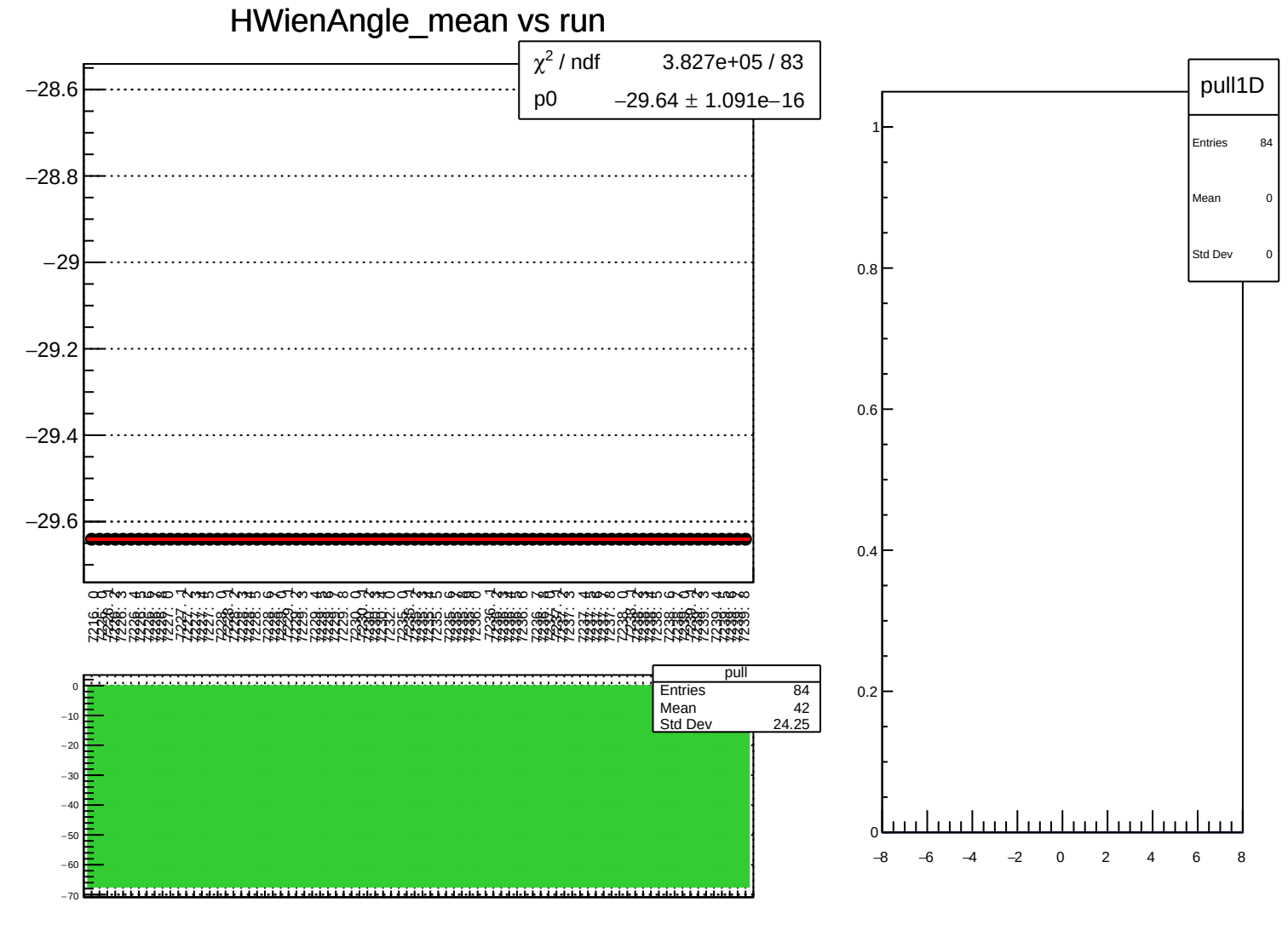

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

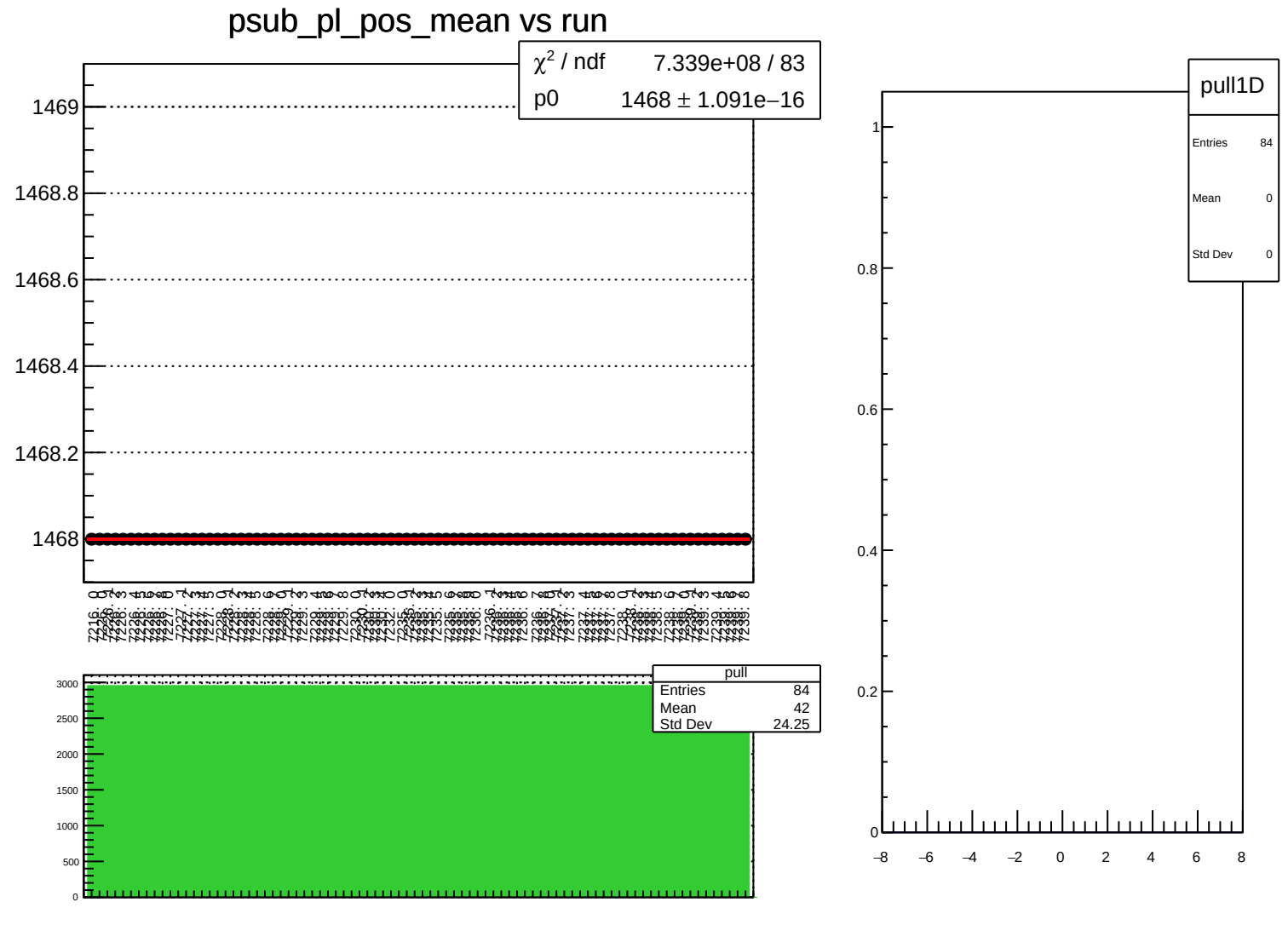

hesDipole_current_mean vs run
χ² / ndf 0.02528 / 83
p0 0.009375 ± 1.091e−16
×10⁻³
pull
Entries 84
Mean 42
Std Dev 24.25

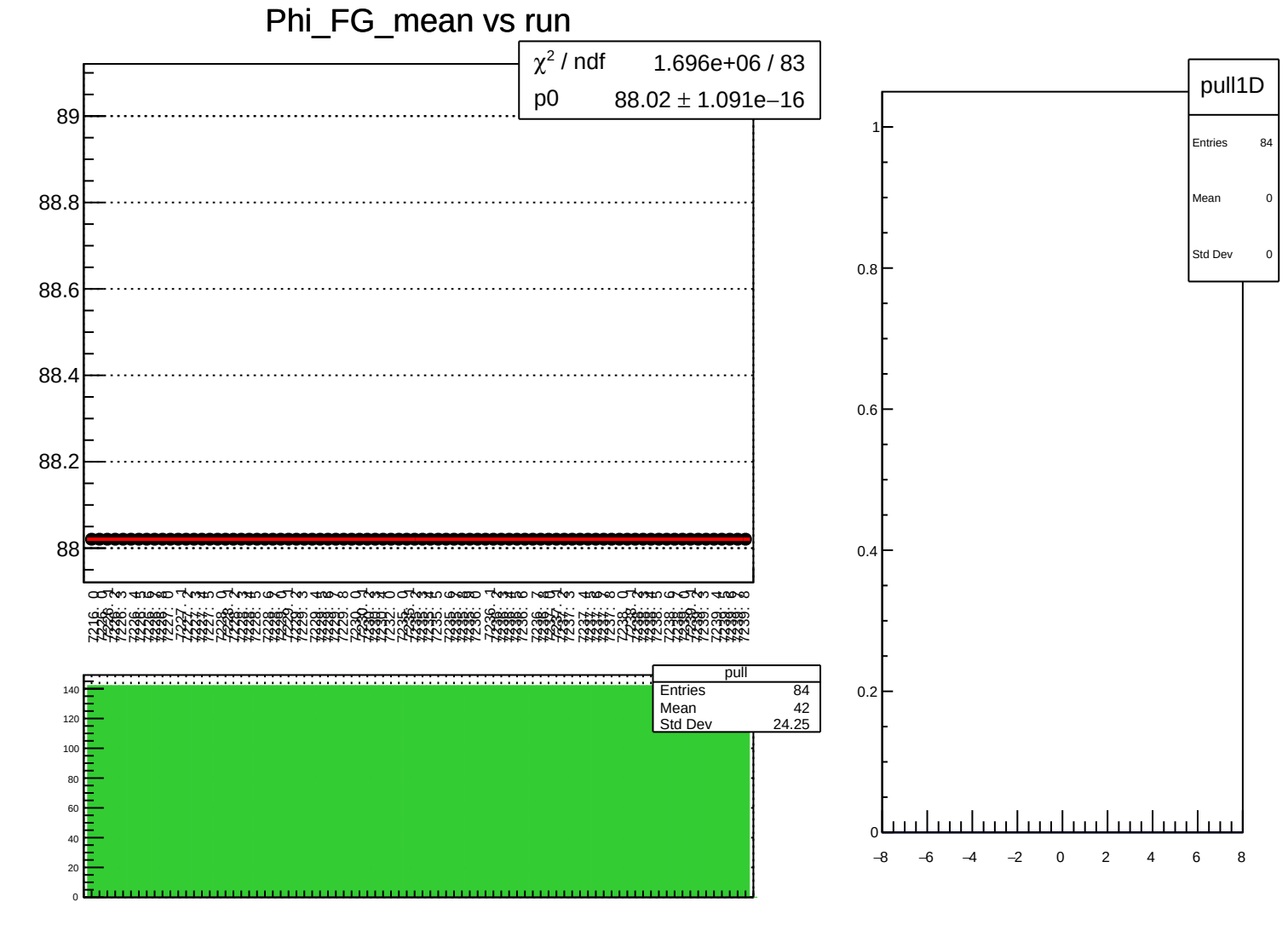

pull1D
Entries 84
Mean 0.01735
Std Dev 0

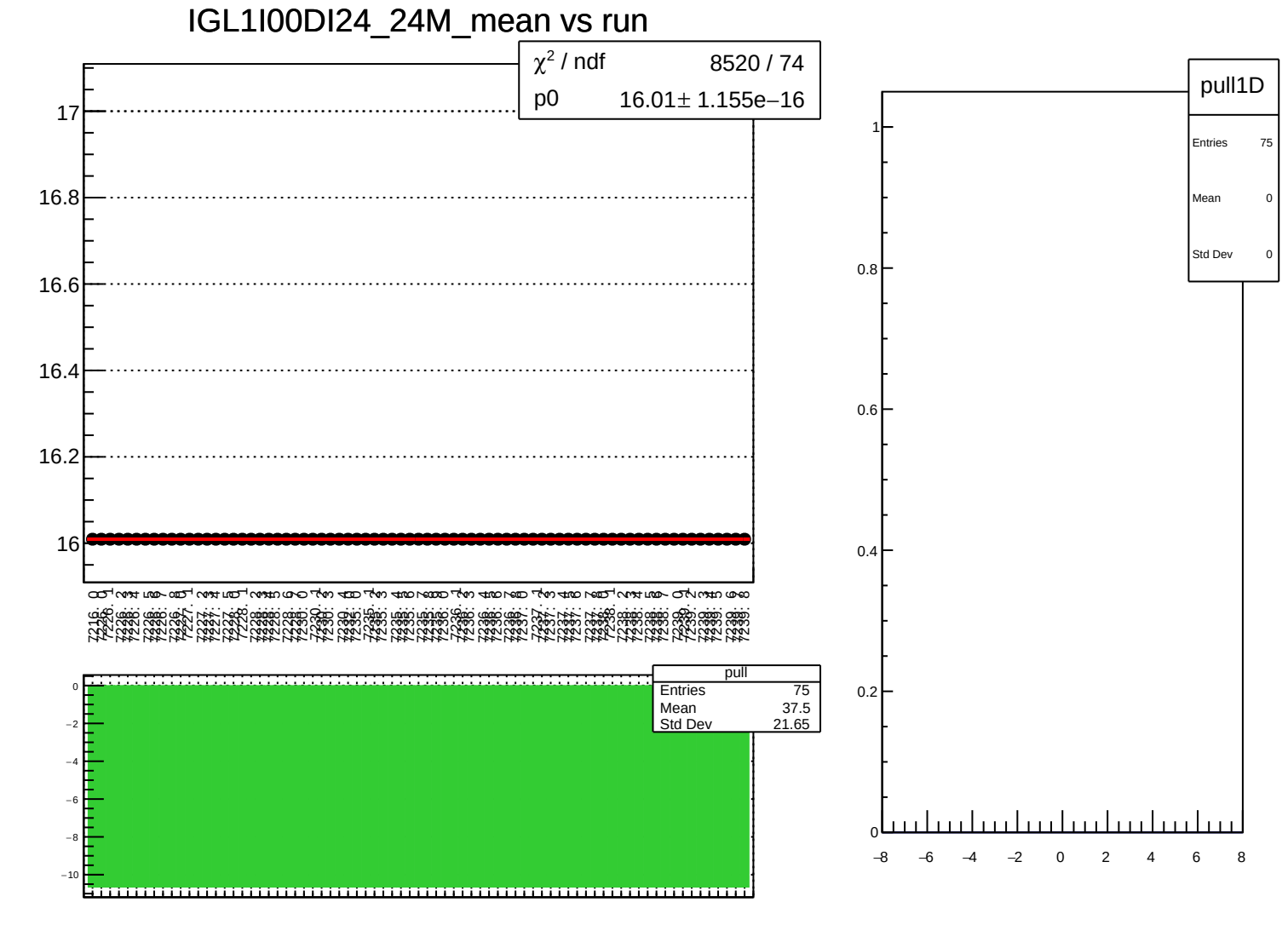

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.02528 / 83
p0 0.009375 ± 1.091e−16
×10⁻³
pull
Entries 84
Mean 42
Std Dev 24.25
pull1D
Entries 84
Mean 0.01735
Std Dev 0

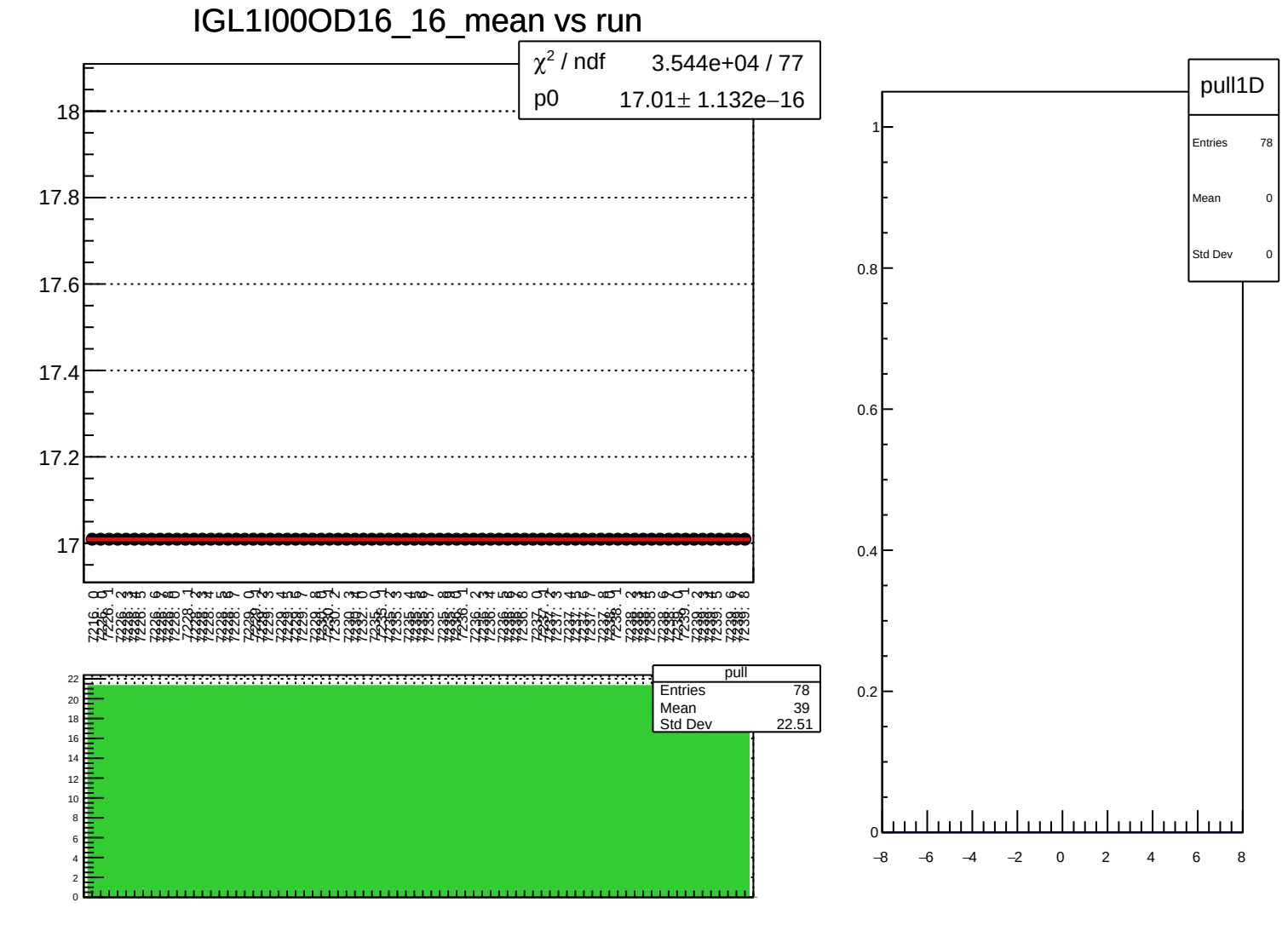

VWienAngle_mean vs run
χ² / ndf 2.443e+06 / 83
p0 −90.6 ± 1.091e−16
−89.6
−89.8
−90
−90.2
−90.4
−90.6
pull
Entries 84
Mean 42
Std Dev 24.25
0
−20
−40
−60
−80
−100
−120
−140
−160
pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

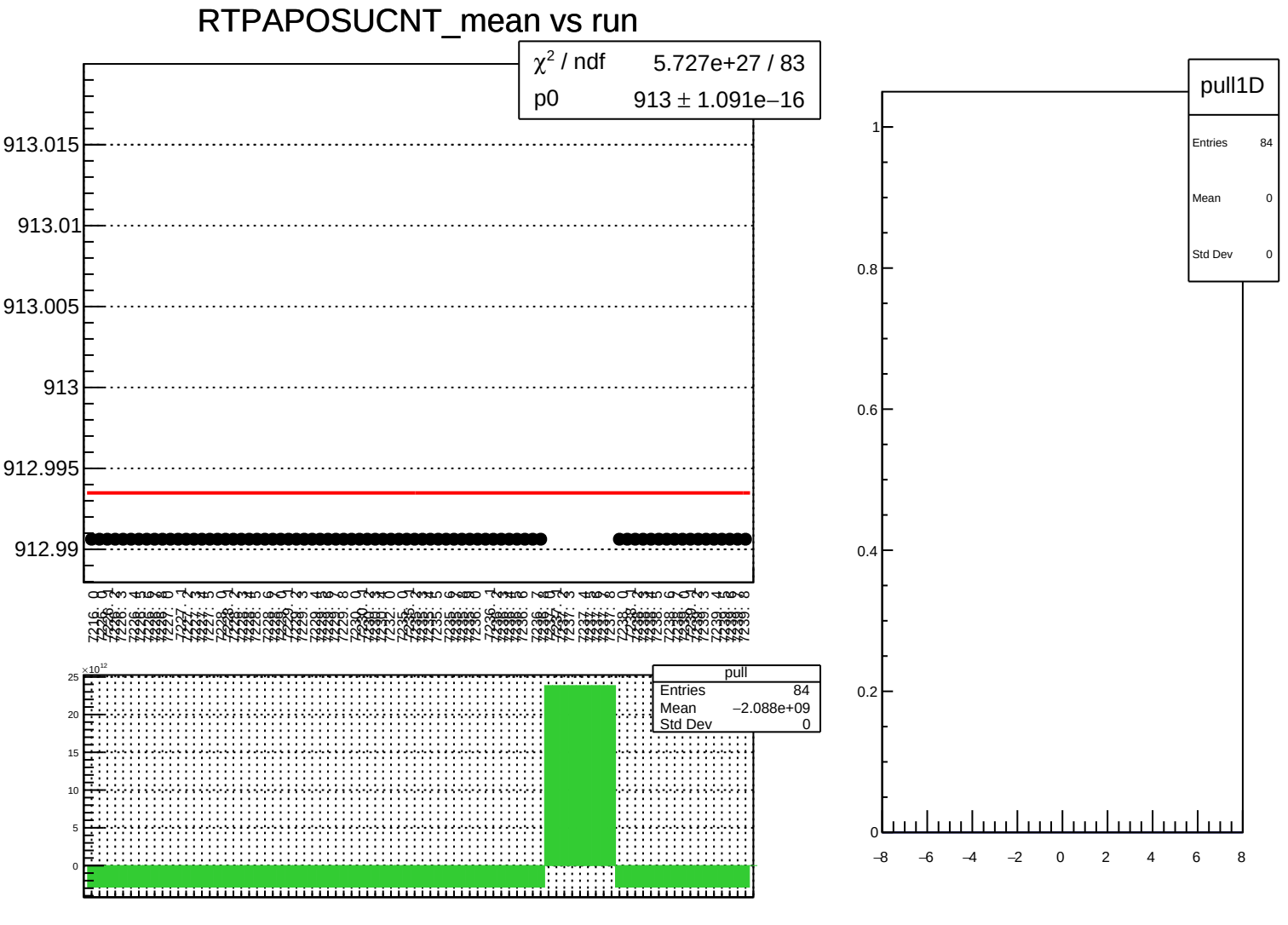

HWienAngle_mean vs run
χ² / ndf 3.827e+05 / 83
p0 −29.64 ± 1.091e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 84
Mean 42
Std Dev 24.25
0
−10
−20
−30
−40
−50
−60
−70
pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

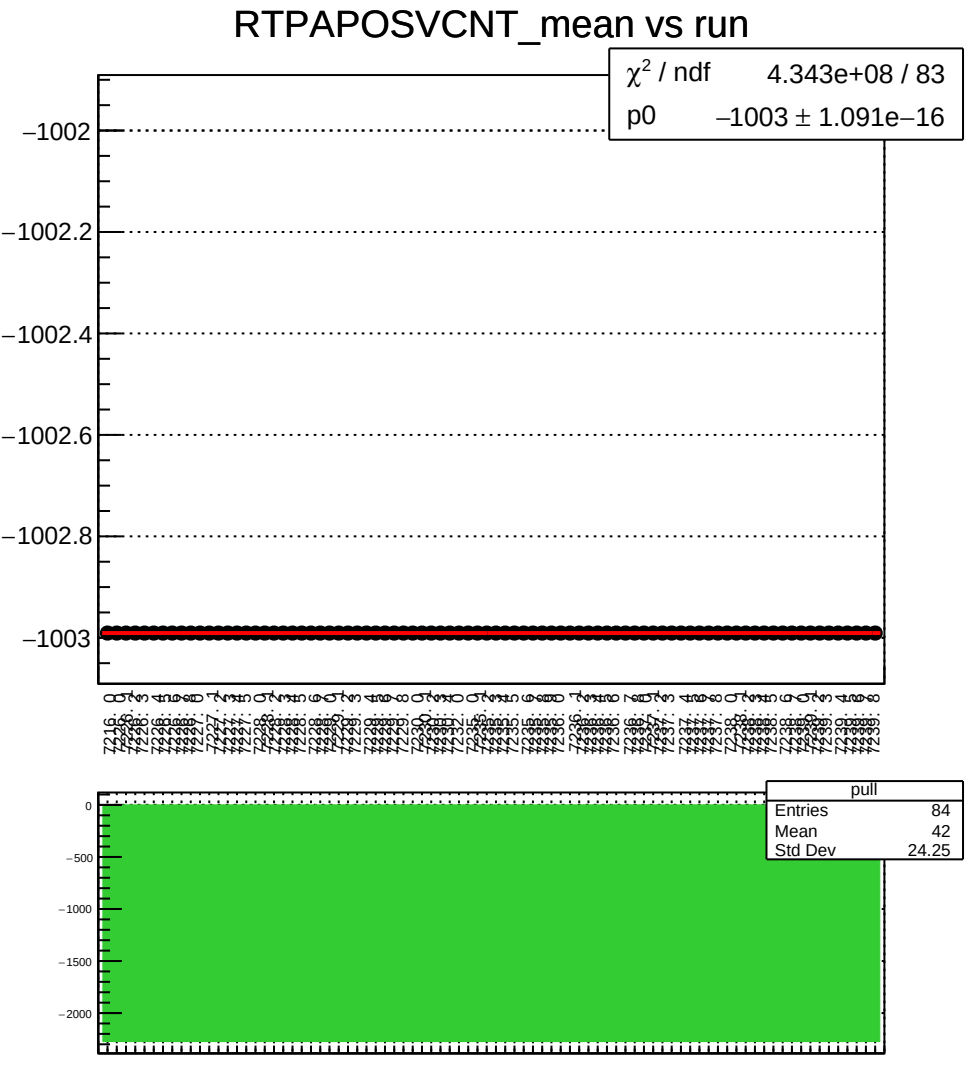

psub_pl_pos_mean vs run
χ² / ndf 7.339e+08 / 83
p0 1468 ± 1.091e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
pull
Entries 84
Mean 42
Std Dev 24.25
3000
2500
2000
1500
1000
500
0
pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

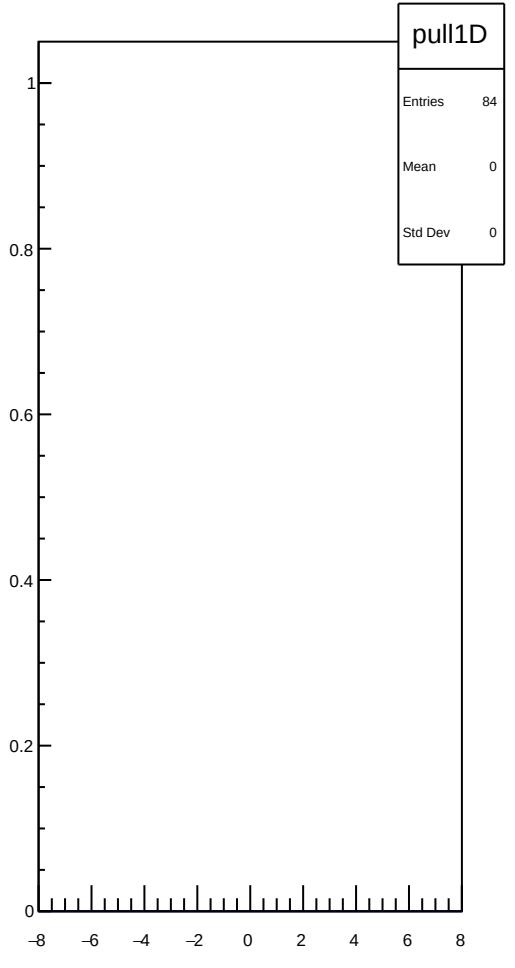

Phi_FG_mean vs run
χ² / ndf 1.696e+06 / 83
p0 88.02 ± 1.091e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 84
Mean 42
Std Dev 24.25
140
120
100
80
60
40
20
0
pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

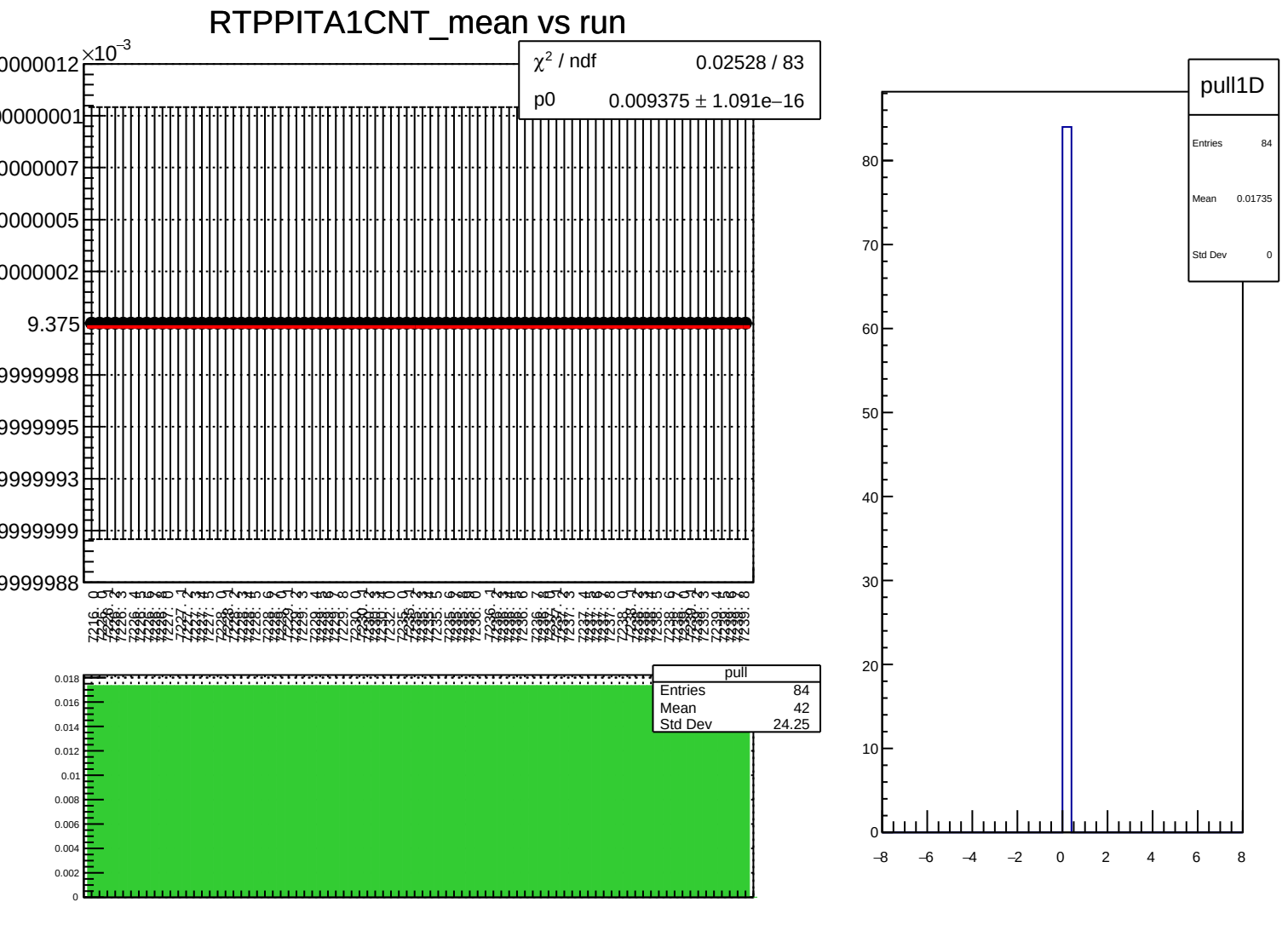

IGL1I00DI24_24M_mean vs run
χ² / ndf 8520 / 74
p0 16.01± 1.155e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 75
Mean 37.5
Std Dev 21.65
0
−2
−4
−6
−8
−10
pull1D
Entries 75
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

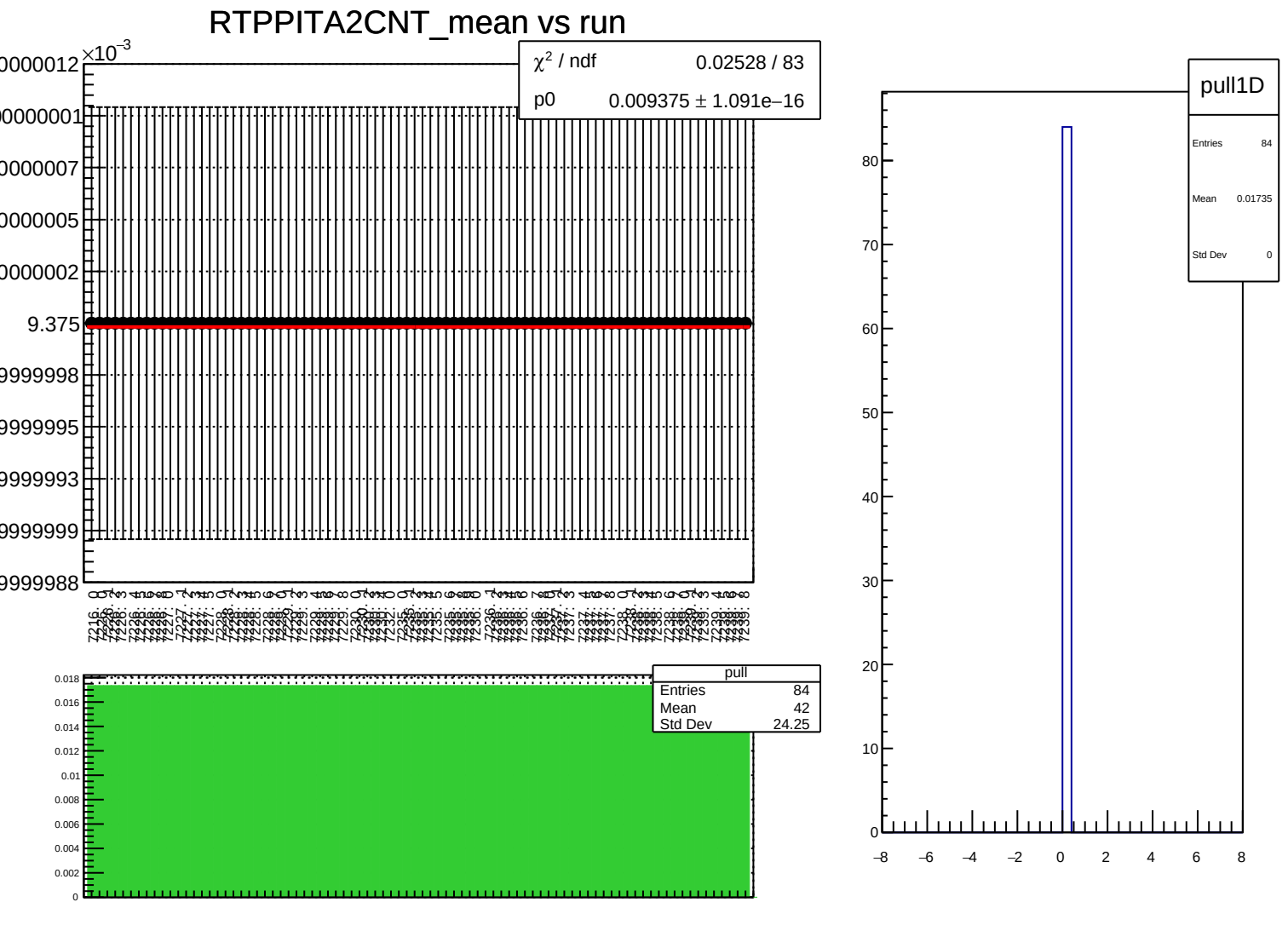

IGL1I00OD16_16_mean vs run
χ² / ndf 3.544e+04 / 77
p0 17.01± 1.132e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 78
Mean 39
Std Dev 22.51
22
20
18
16
14
12
10
8
6
4
2
0
pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSUCNT_mean vs run
χ² / ndf 5.727e+27 / 83
p0 913 ± 1.091e−16
913.015
913.01
913.005
913
912.995
912.99
pull
Entries 84
Mean −2.088e+09
Std Dev 0
×10¹²
25
20
15
10
5
0
pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSVCNT_mean vs run
χ² / ndf 4.343e+08 / 83
p0 −1003 ± 1.091e−16
−1002
−1002.2
−1002.4
−1002.6
−1002.8
−1003
pull
Entries 84
Mean 42
Std Dev 24.25
0
−500
−1000
−1500
−2000


pull1D
Entries 84
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 0.02528 / 83
p0 0.009375 ± 1.091e−16
×10⁻³
pull
Entries 84
Mean 42
Std Dev 24.25
pull1D
Entries 84
Mean 0.01735
Std Dev 0


RTPPITA2CNT_mean vs run
χ² / ndf 0.02528 / 83
p0 0.009375 ± 1.091e−16
×10⁻³
pull
Entries 84
Mean 42
Std Dev 24.25
pull1D
Entries 84
Mean 0.01735
Std Dev 0