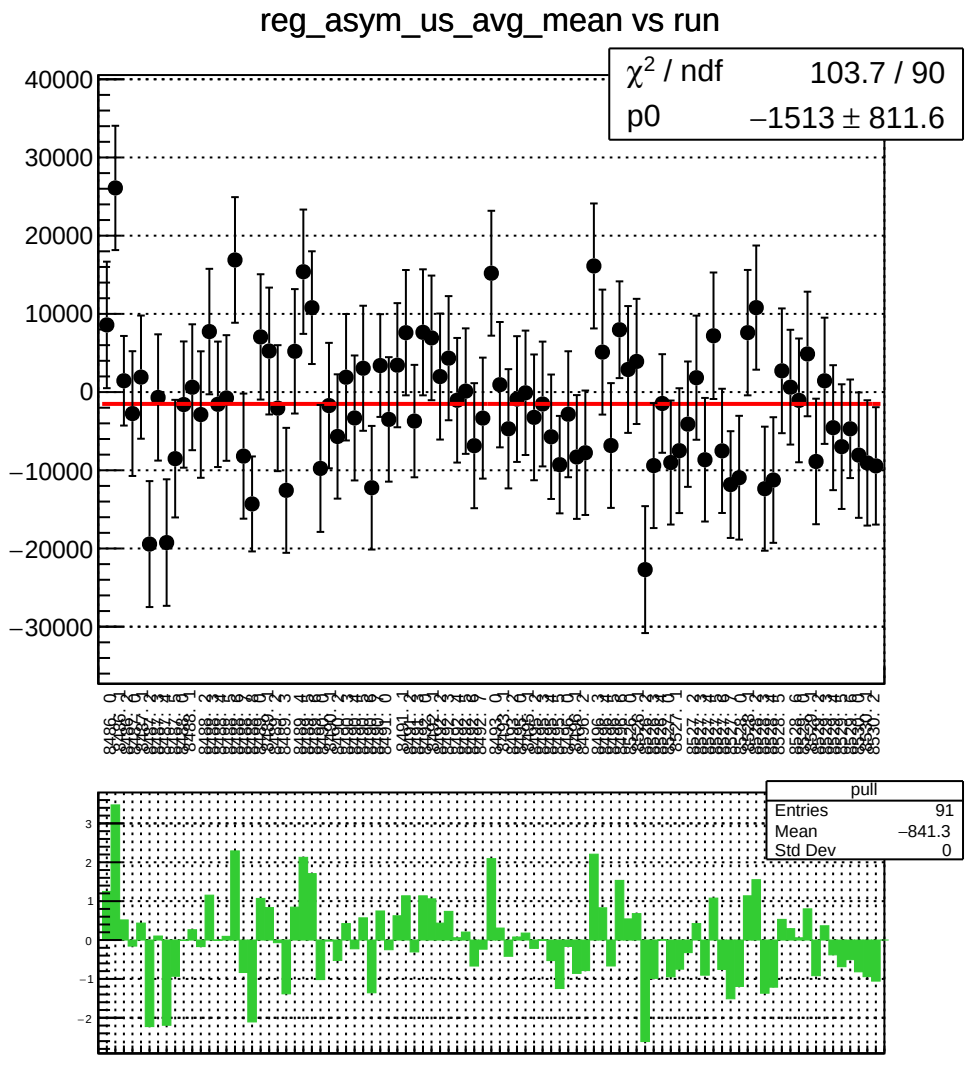
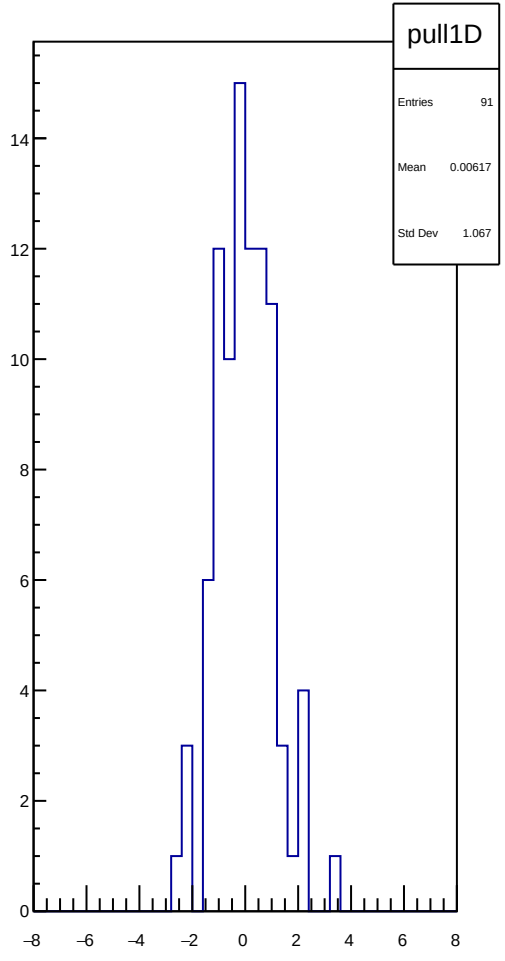
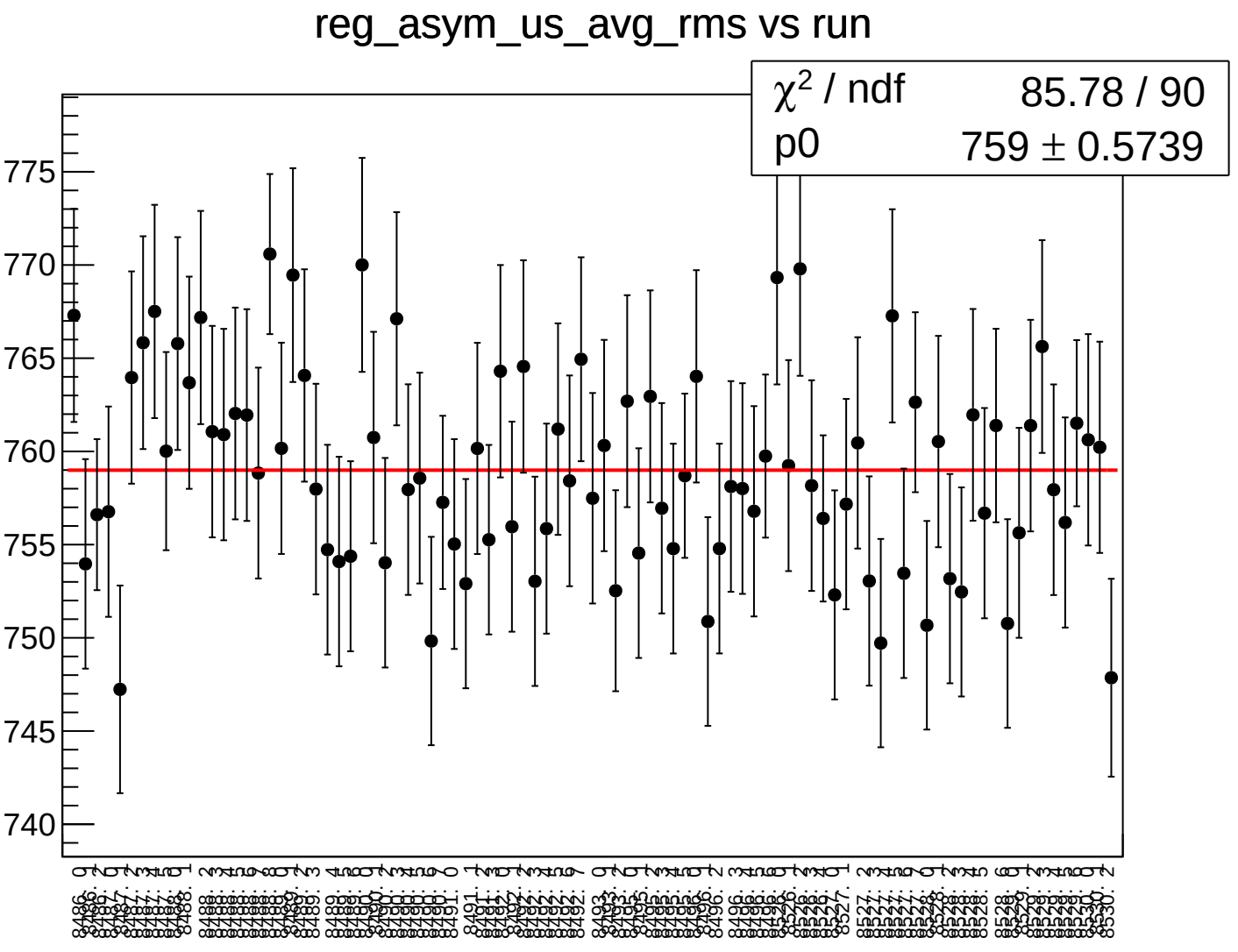
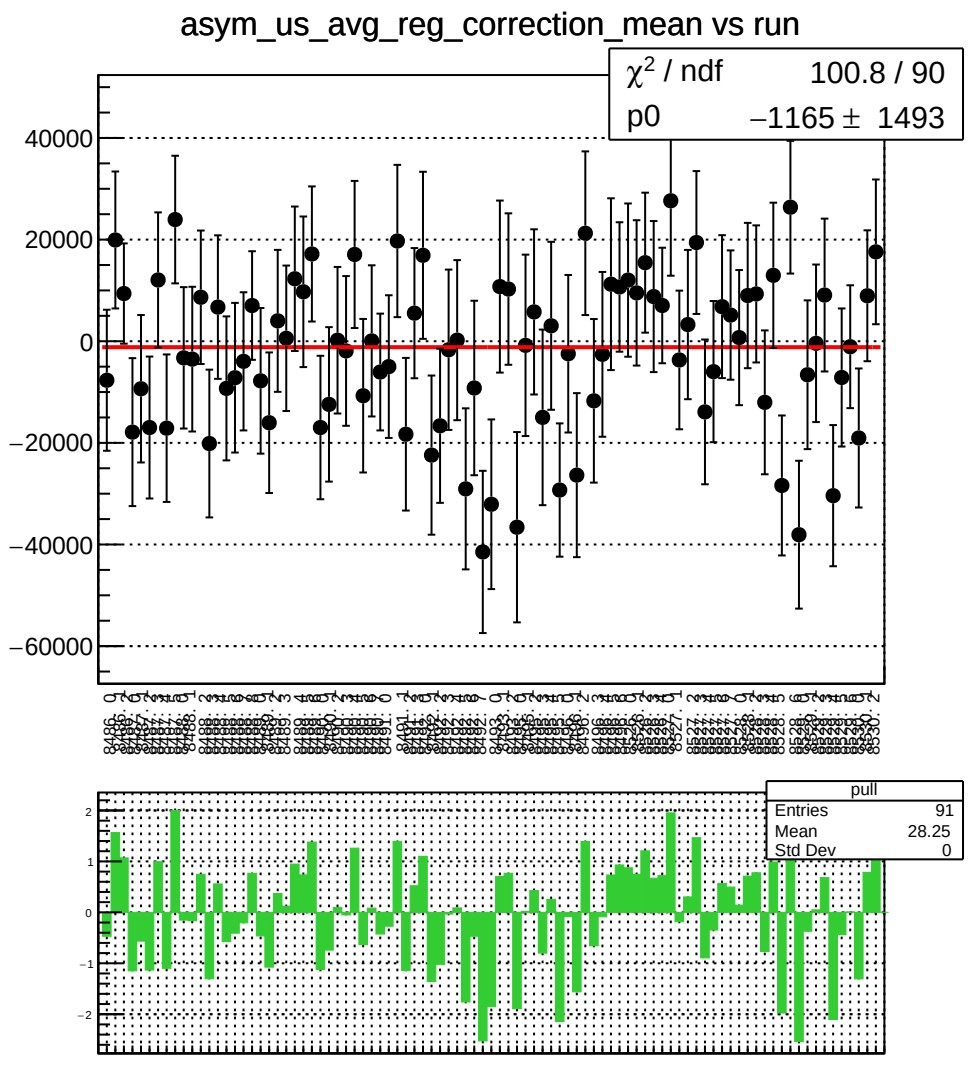
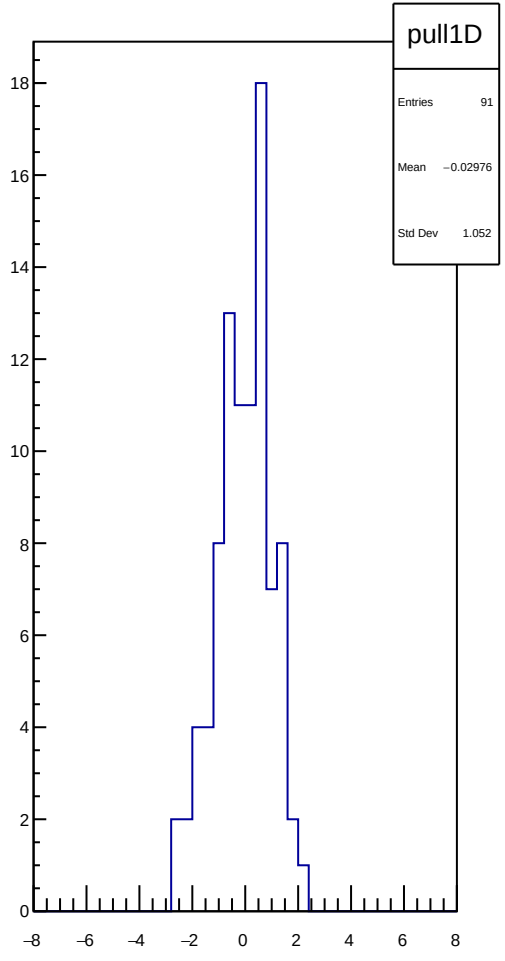

reg_asym_us_avg_mean vs run
χ² / ndf 103.7 / 90
p0 −1513 ± 811.6
pull
Entries 91
Mean −841.3
Std Dev 0


pull1D
Entries 91
Mean 0.00617
Std Dev 1.067


reg_asym_us_avg_rms vs run
χ^2 / ndf 85.78 / 90
p0 759 ± 0.5739
775
770
765
760
755
750
745
740


asym_us_avg_reg_correction_mean vs run
χ² / ndf 100.8 / 90
p0 −1165 ± 1493
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 28.25
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 91
Mean −0.02976
Std Dev 1.052
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
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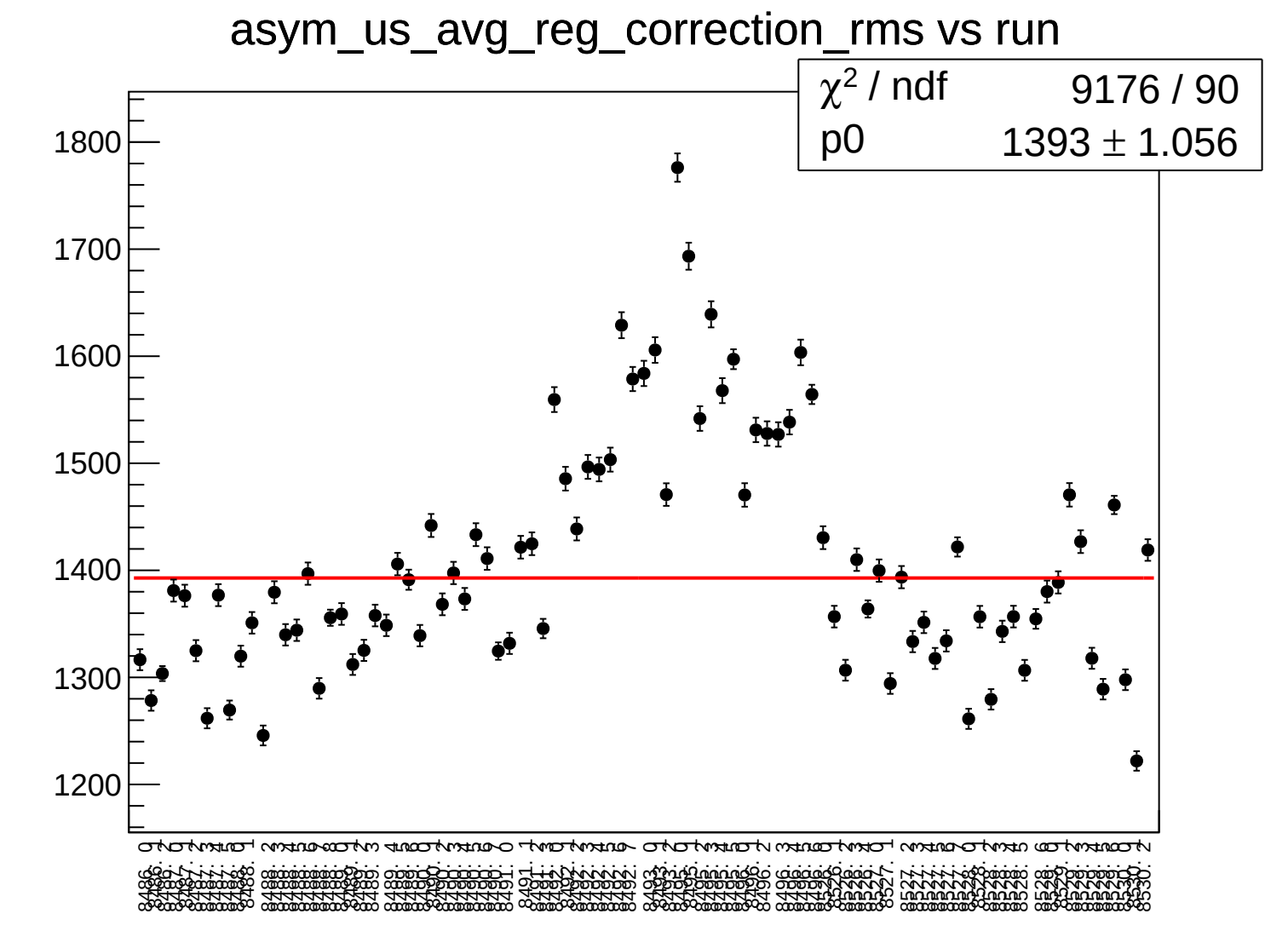
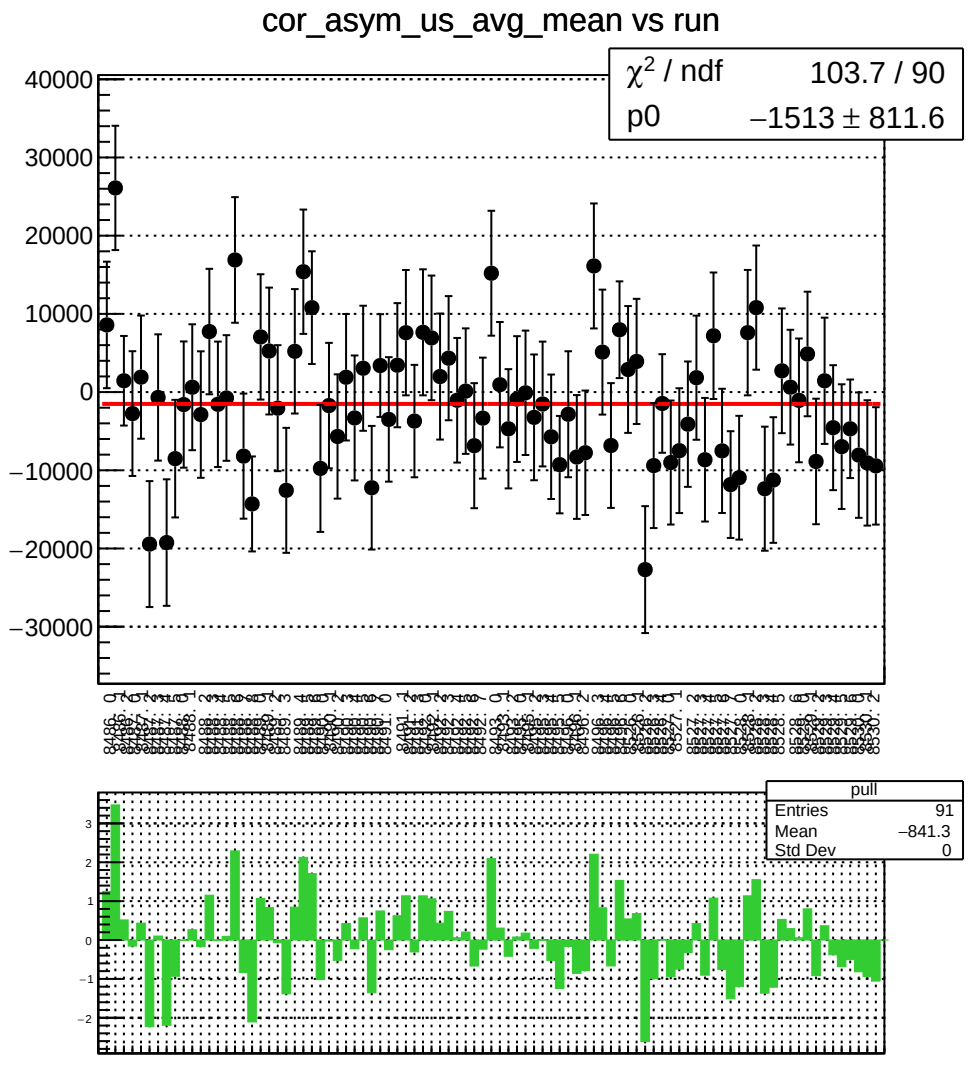
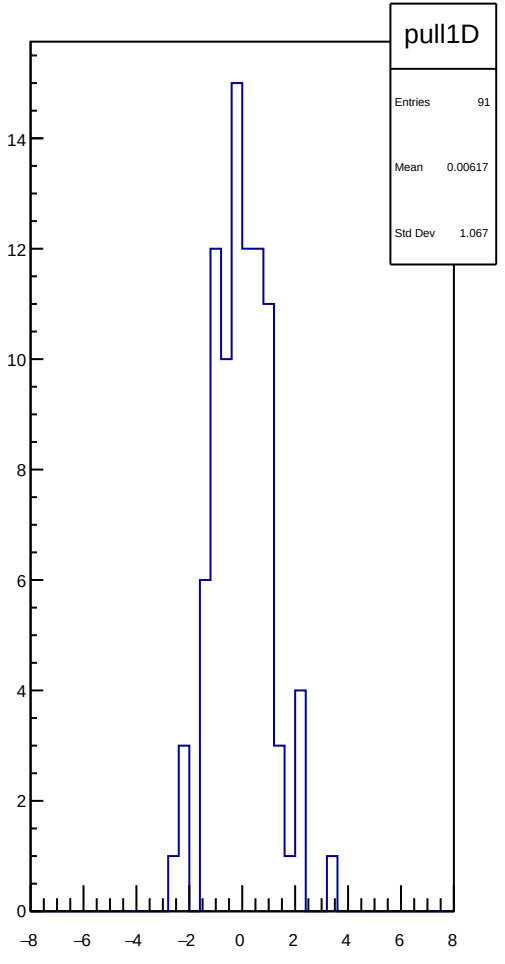
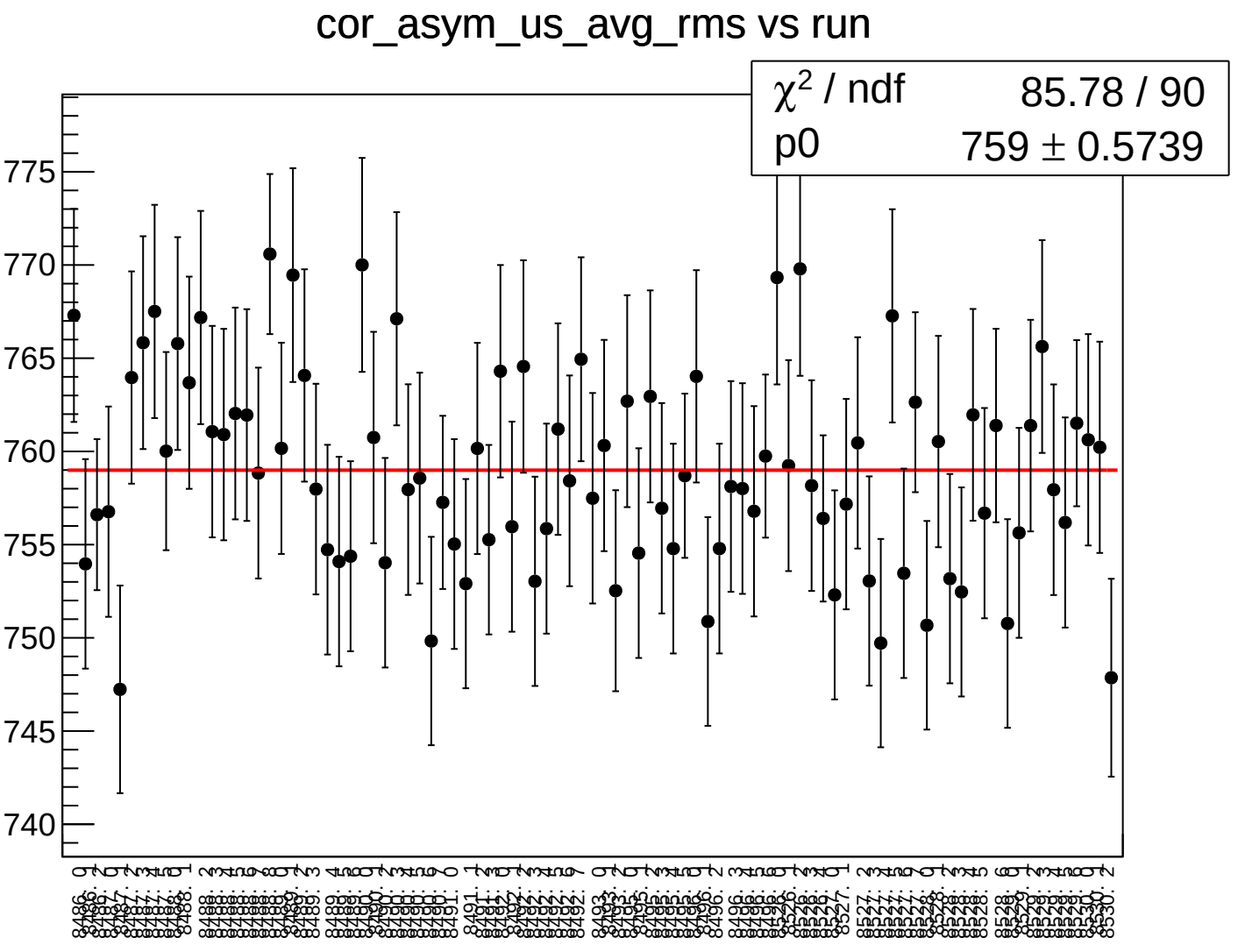
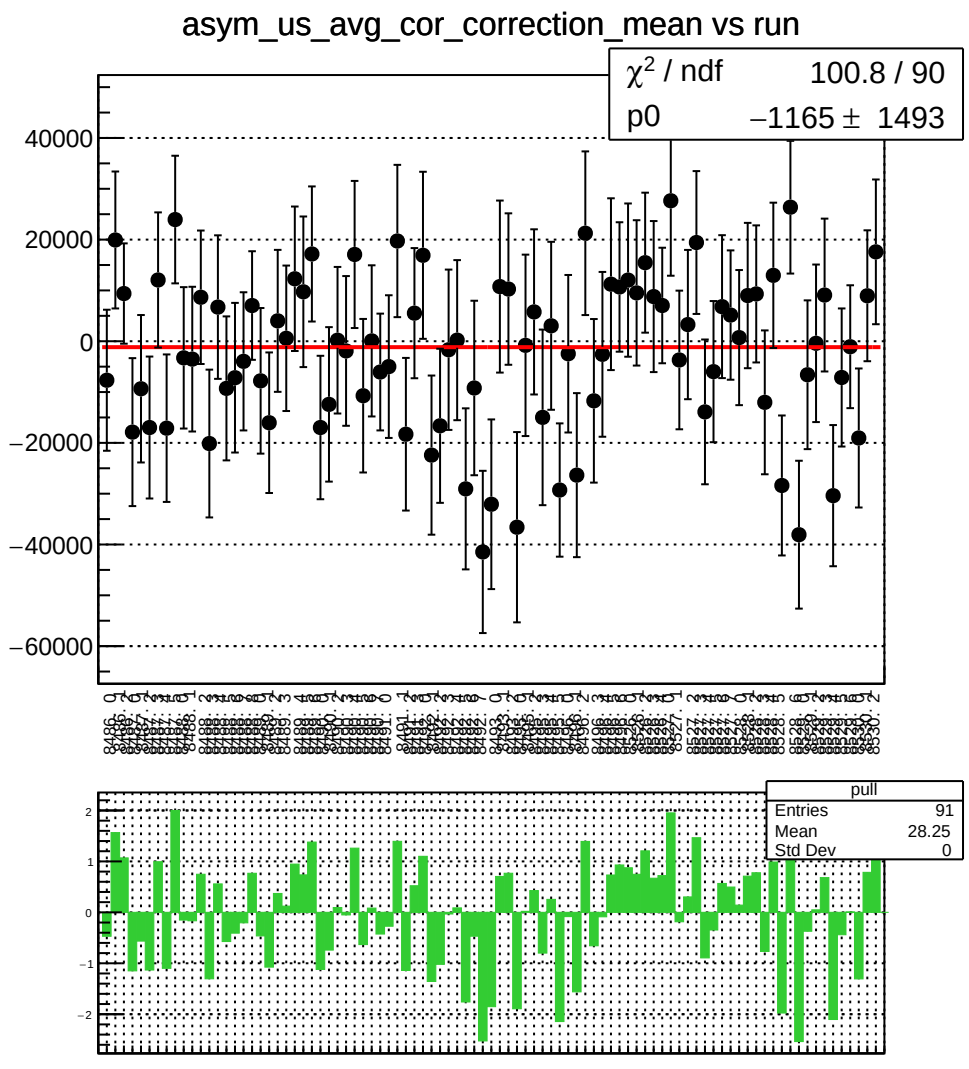
0
2
4
6
8

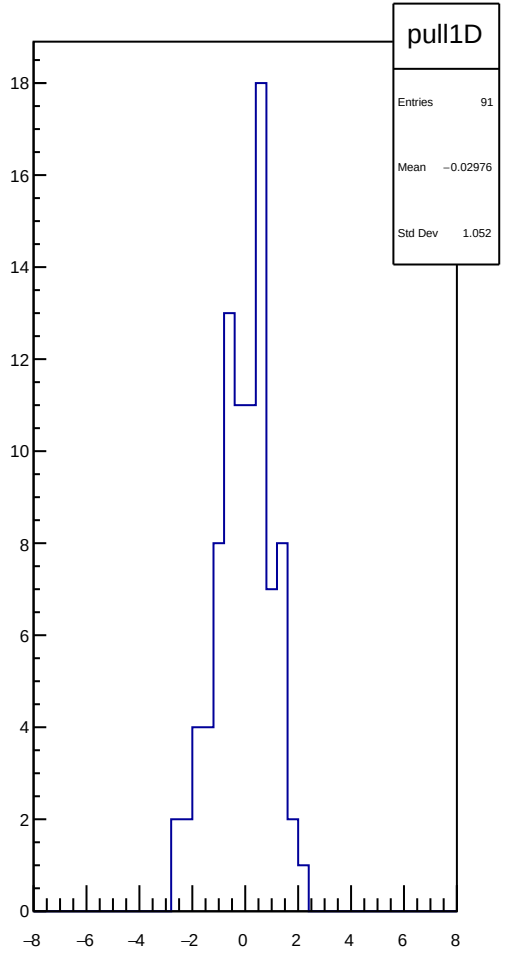

asym_us_avg_reg_correction_rms vs run
χ² / ndf 9176 / 90
p0 1393 ± 1.056
1800
1700
1600
1500
1400
1300
1200


cor_asym_us_avg_mean vs run
χ² / ndf 103.7 / 90
p0 −1513 ± 811.6
pull
Entries 91
Mean −841.3
Std Dev 0


pull1D
Entries 91
Mean 0.00617
Std Dev 1.067


cor_asym_us_avg_rms vs run
χ^2 / ndf 85.78 / 90
p0 759 ± 0.5739
775
770
765
760
755
750
745
740


asym_us_avg_cor_correction_mean vs run
χ² / ndf 100.8 / 90
p0 −1165 ± 1493
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 28.25
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 91
Mean −0.02976
Std Dev 1.052
18
16
14
12
10
8
6
4
2
0
−8
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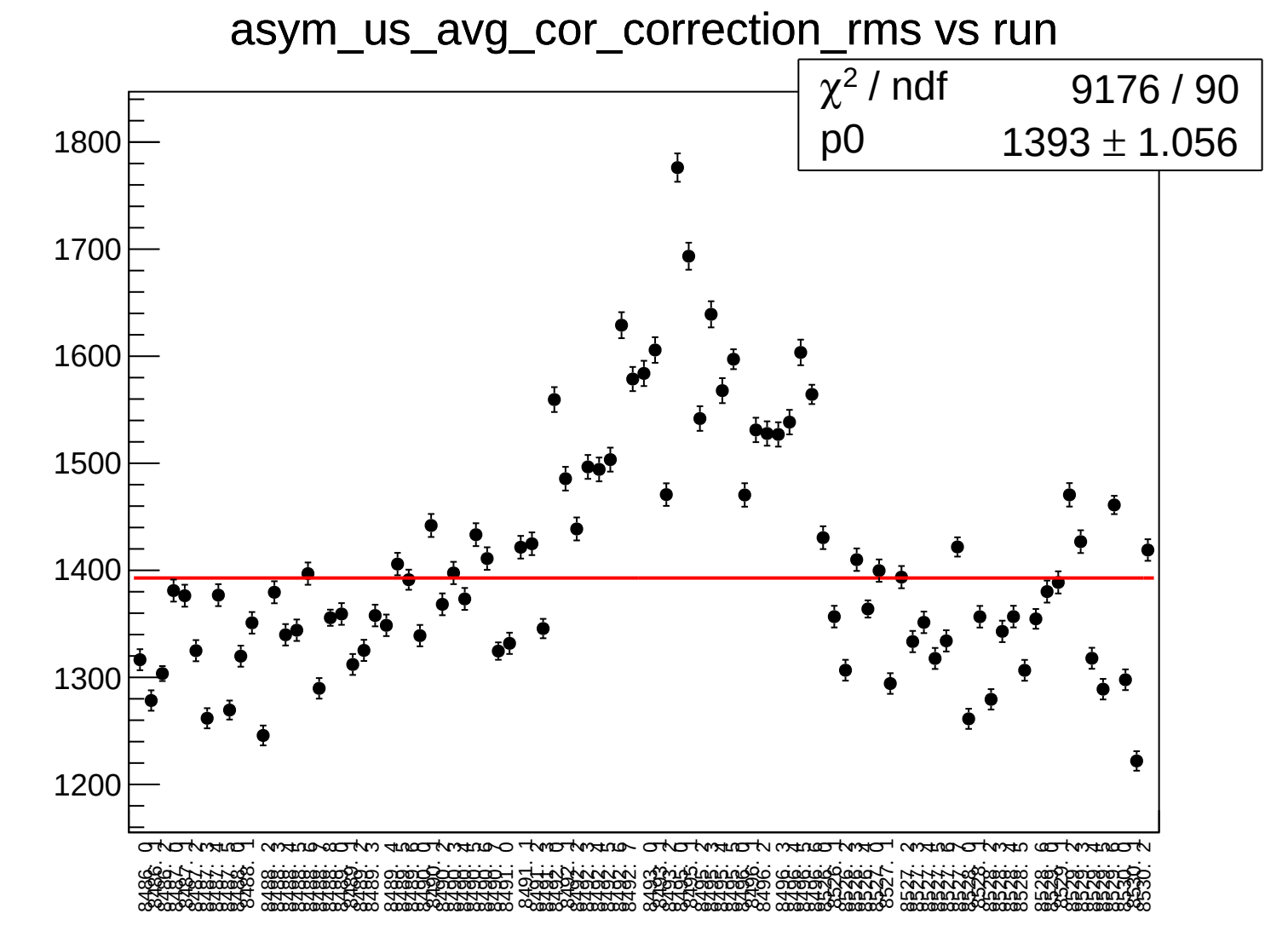
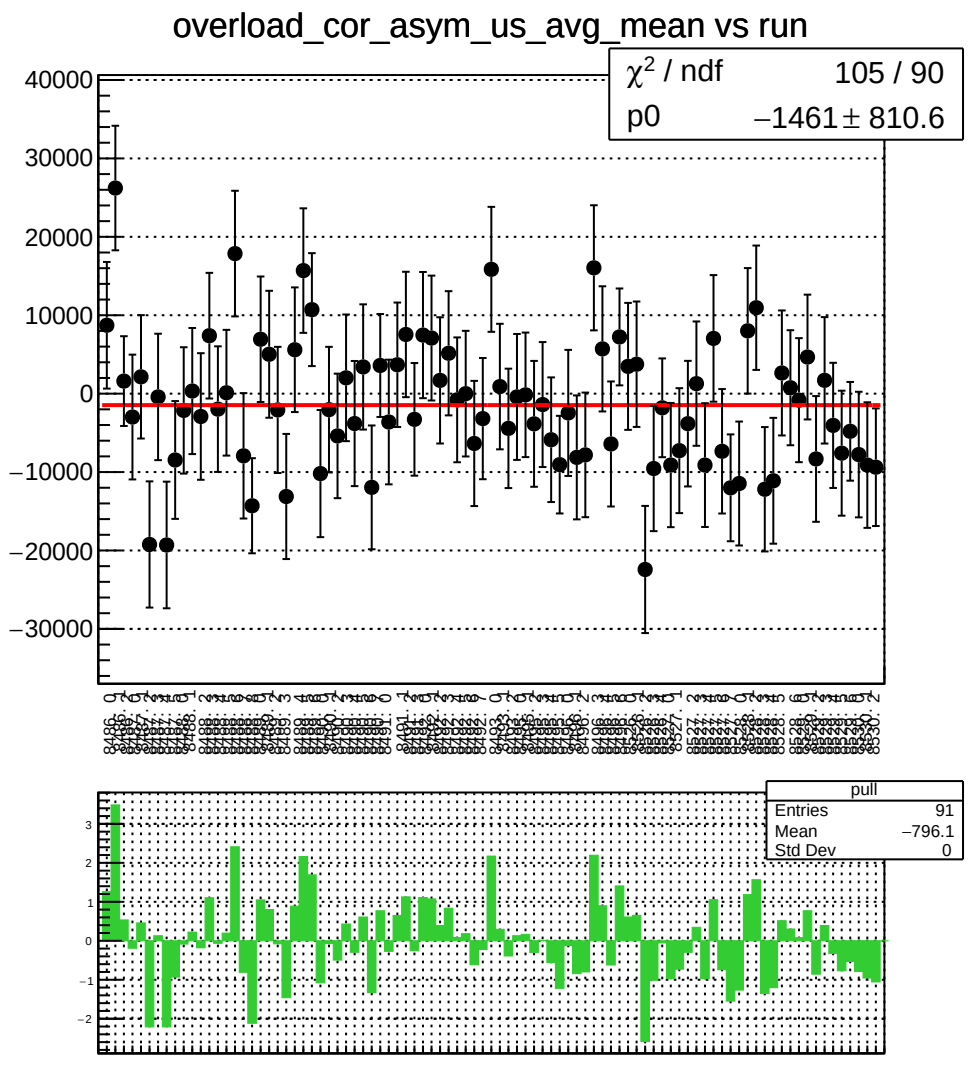
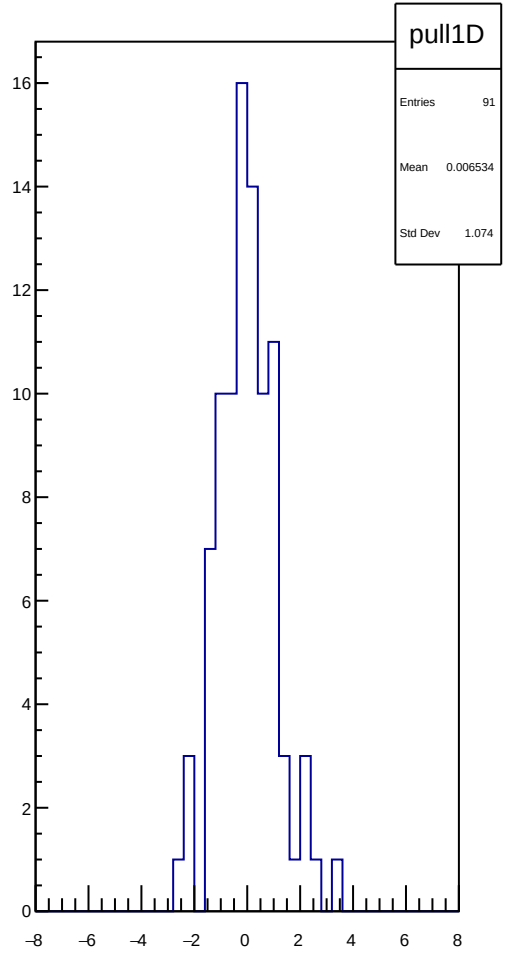
2
4
6
8


asym_us_avg_cor_correction_rms vs run
χ^2 / ndf 9176 / 90
p0 1393 ± 1.056
1800
1700
1600
1500
1400
1300
1200


overload_cor_asym_us_avg_mean vs run
χ² / ndf 105 / 90
p0 −1461 ± 810.6
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −796.1
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 91
Mean 0.006534
Std Dev 1.074
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14
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10
8
6
4
2
0
−8
−6
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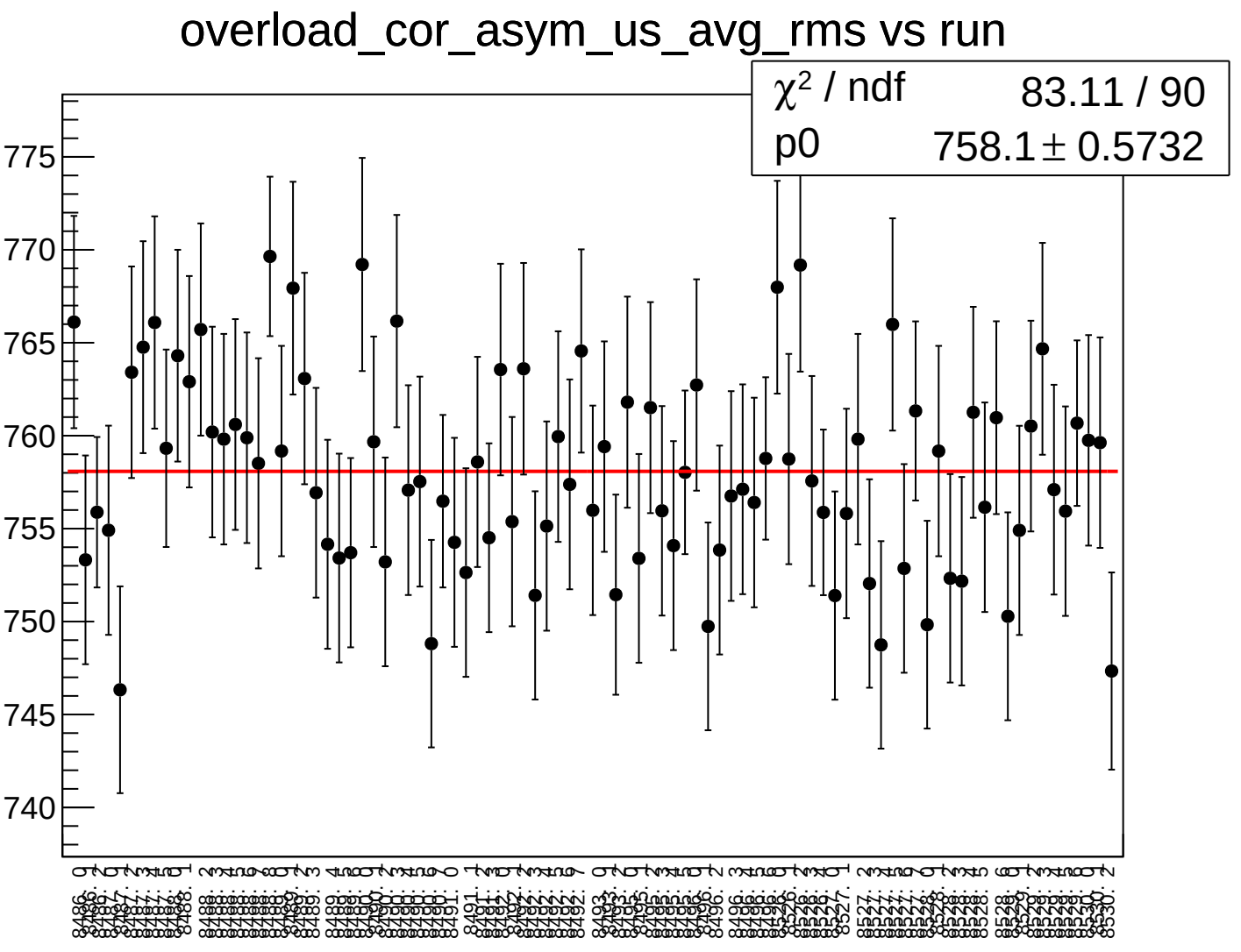
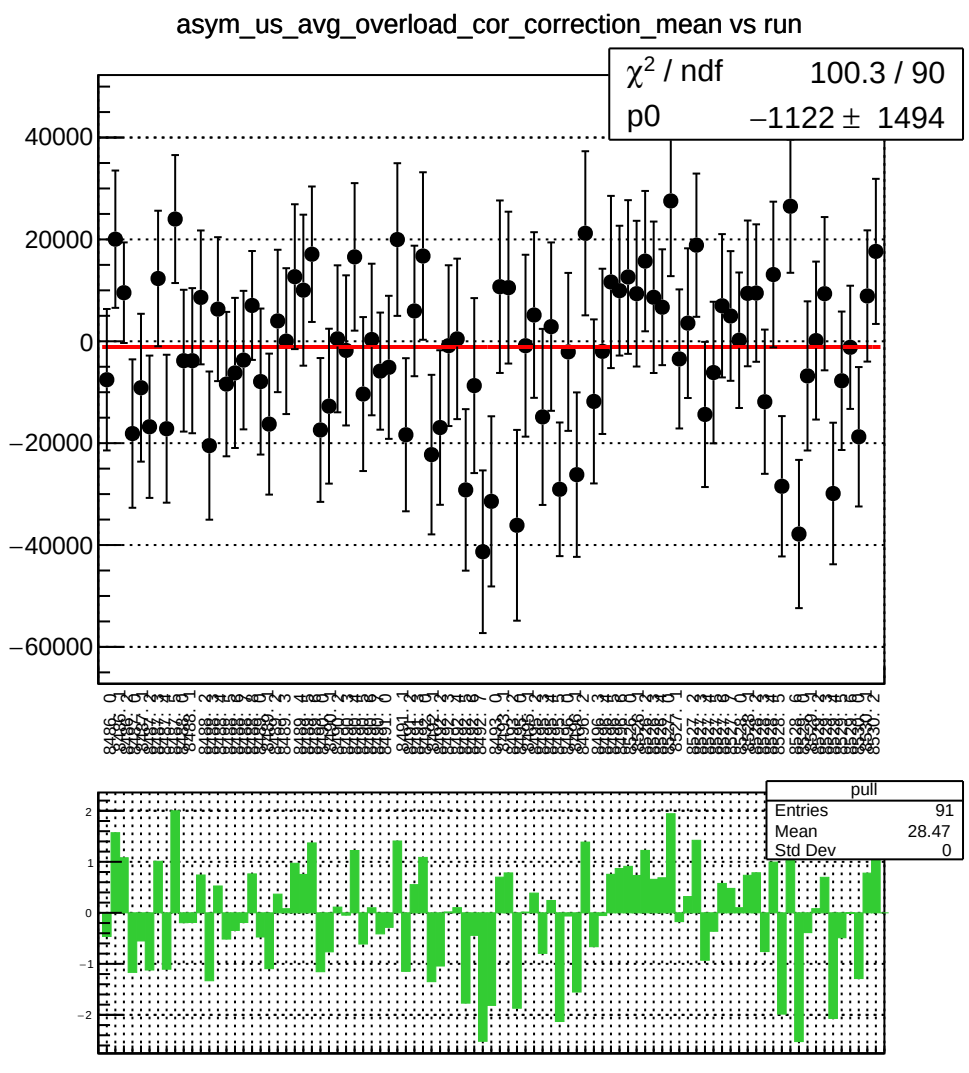
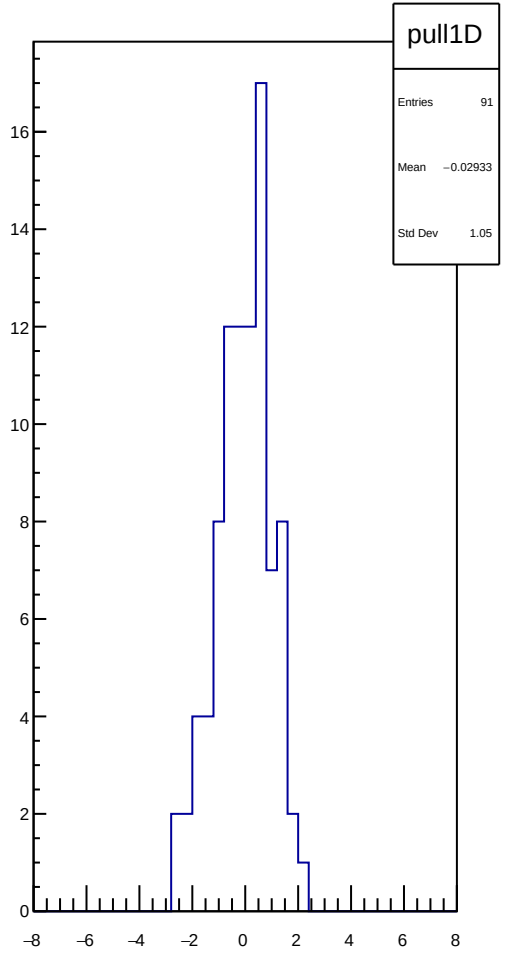
2
4
6
8


overload_cor_asym_us_avg_rms vs run
χ² / ndf 83.11 / 90
p0 758.1 ± 0.5732
775
770
765
760
755
750
745
740


asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 100.3 / 90
p0 −1122 ± 1494
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 28.47
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 91
Mean −0.02933
Std Dev 1.05
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14
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10
8
6
4
2
0
−8
−6
−4
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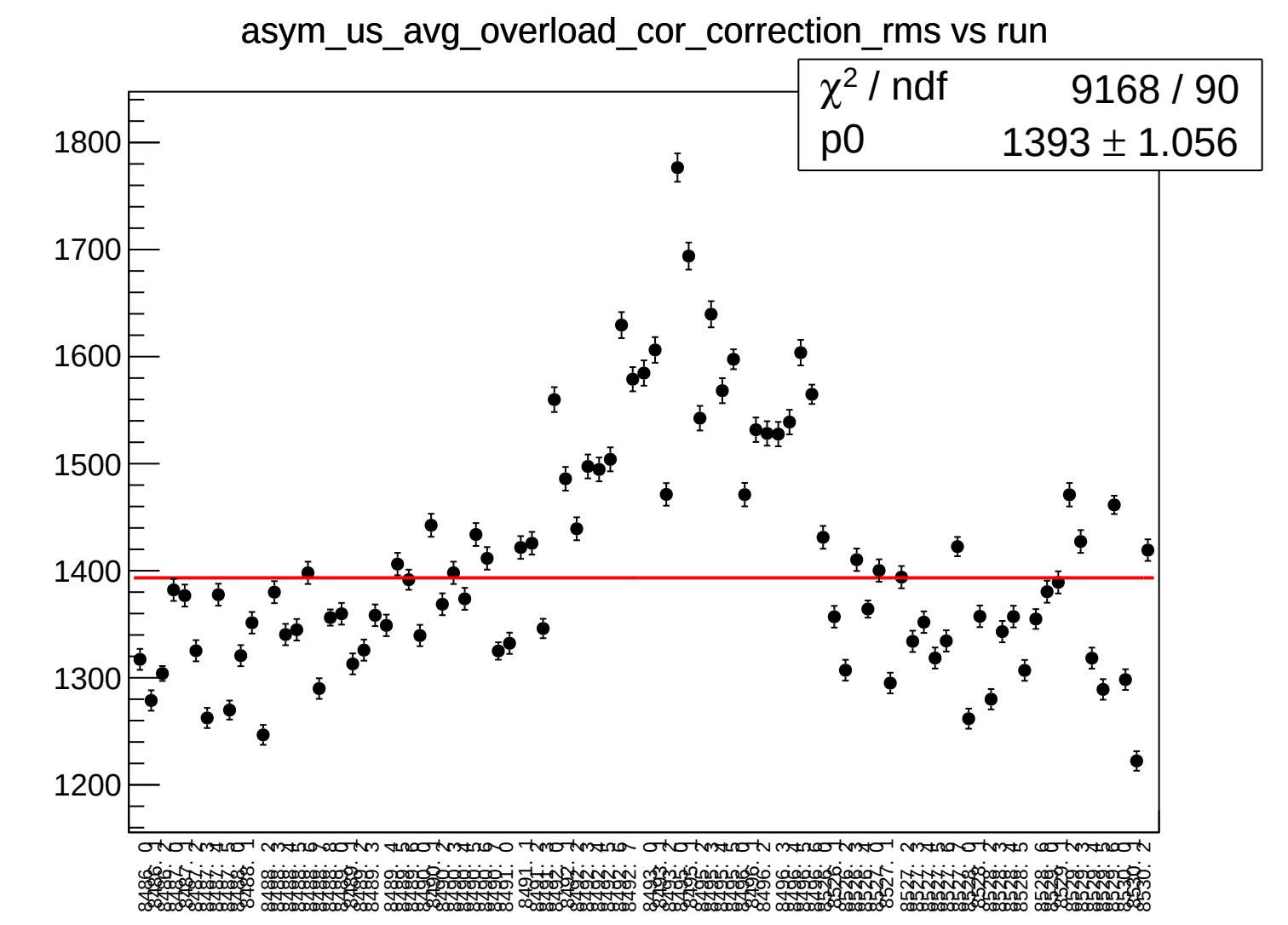
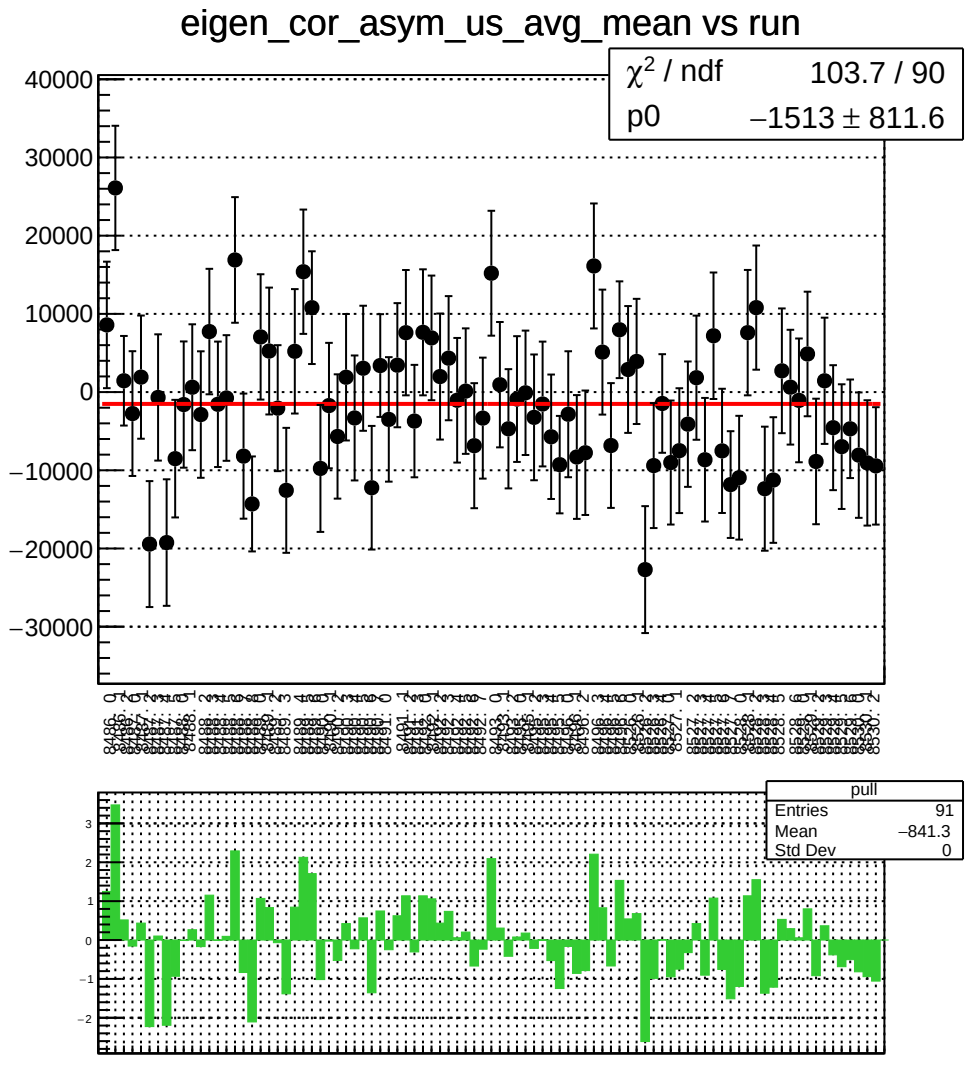
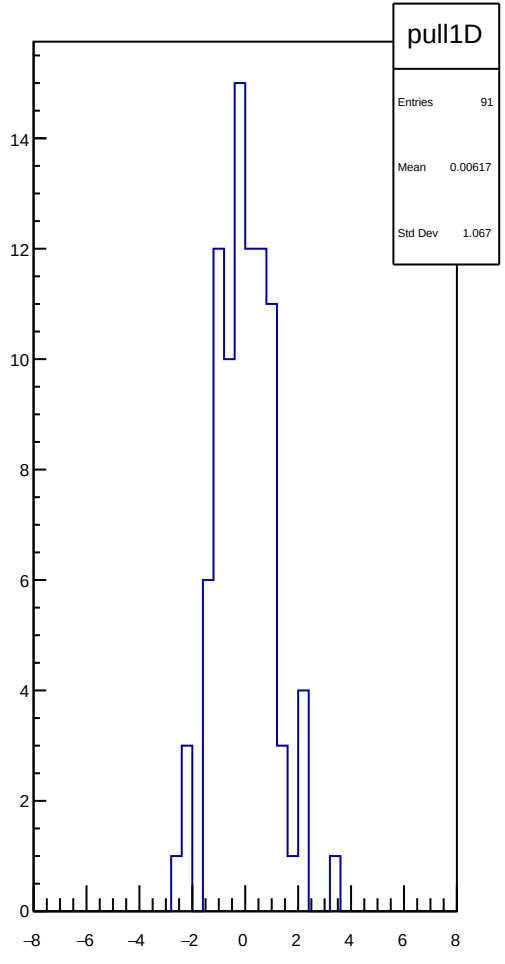
0
2
4
6
8


asym_us_avg_overload_cor_correction_rms vs run
χ^2 / ndf 9168 / 90
p0 1393 ± 1.056
1800
1700
1600
1500
1400
1300
1200


eigen_cor_asym_us_avg_mean vs run
χ² / ndf 103.7 / 90
p0 −1513 ± 811.6
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −841.3
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 91
Mean 0.00617
Std Dev 1.067
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12
10
8
6
4
2
0
−8
−6
−4
−2
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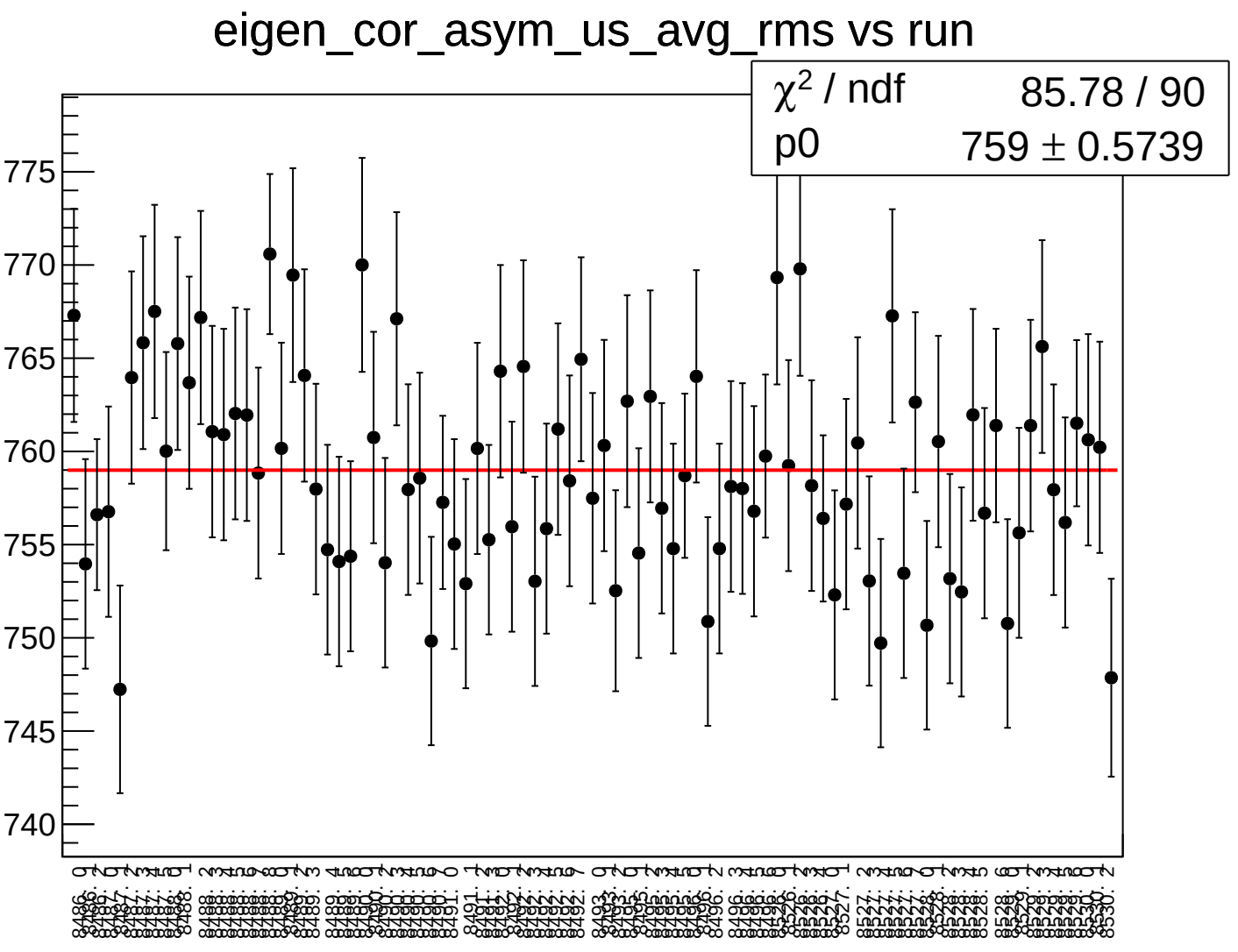
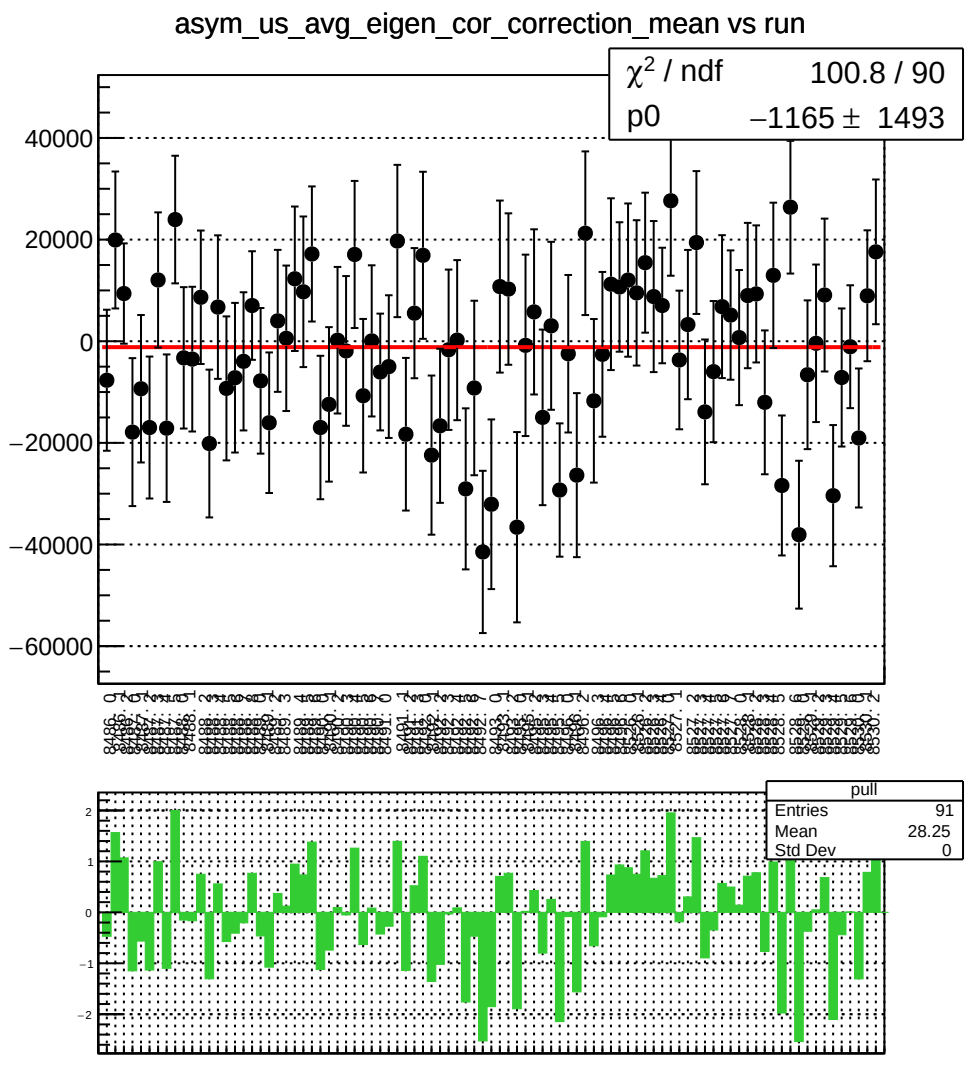
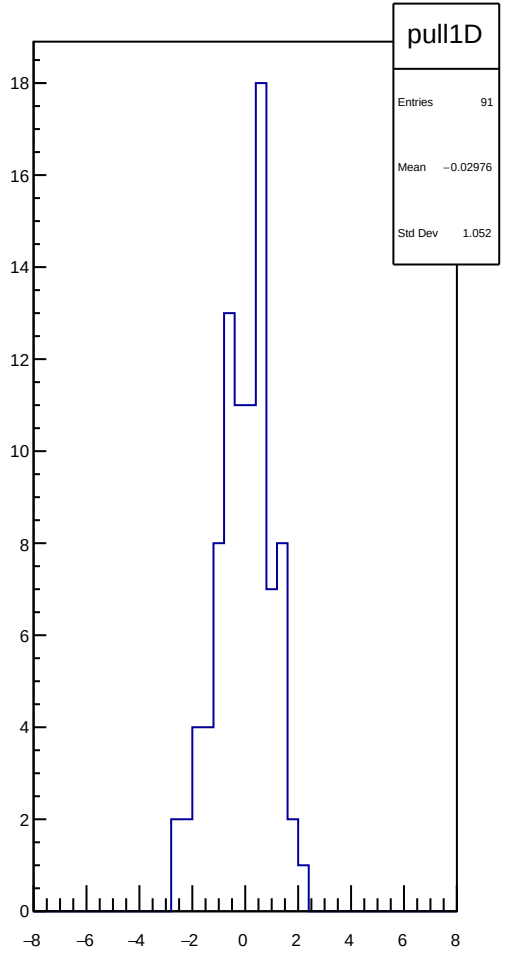
2
4
6
8


eigen_cor_asym_us_avg_rms vs run
χ² / ndf 85.78 / 90
p0 759 ± 0.5739
775
770
765
760
755
750
745
740


asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 100.8 / 90
p0 −1165 ± 1493
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 28.25
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 91
Mean −0.02976
Std Dev 1.052
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16
14
12
10
8
6
4
2
0
−8
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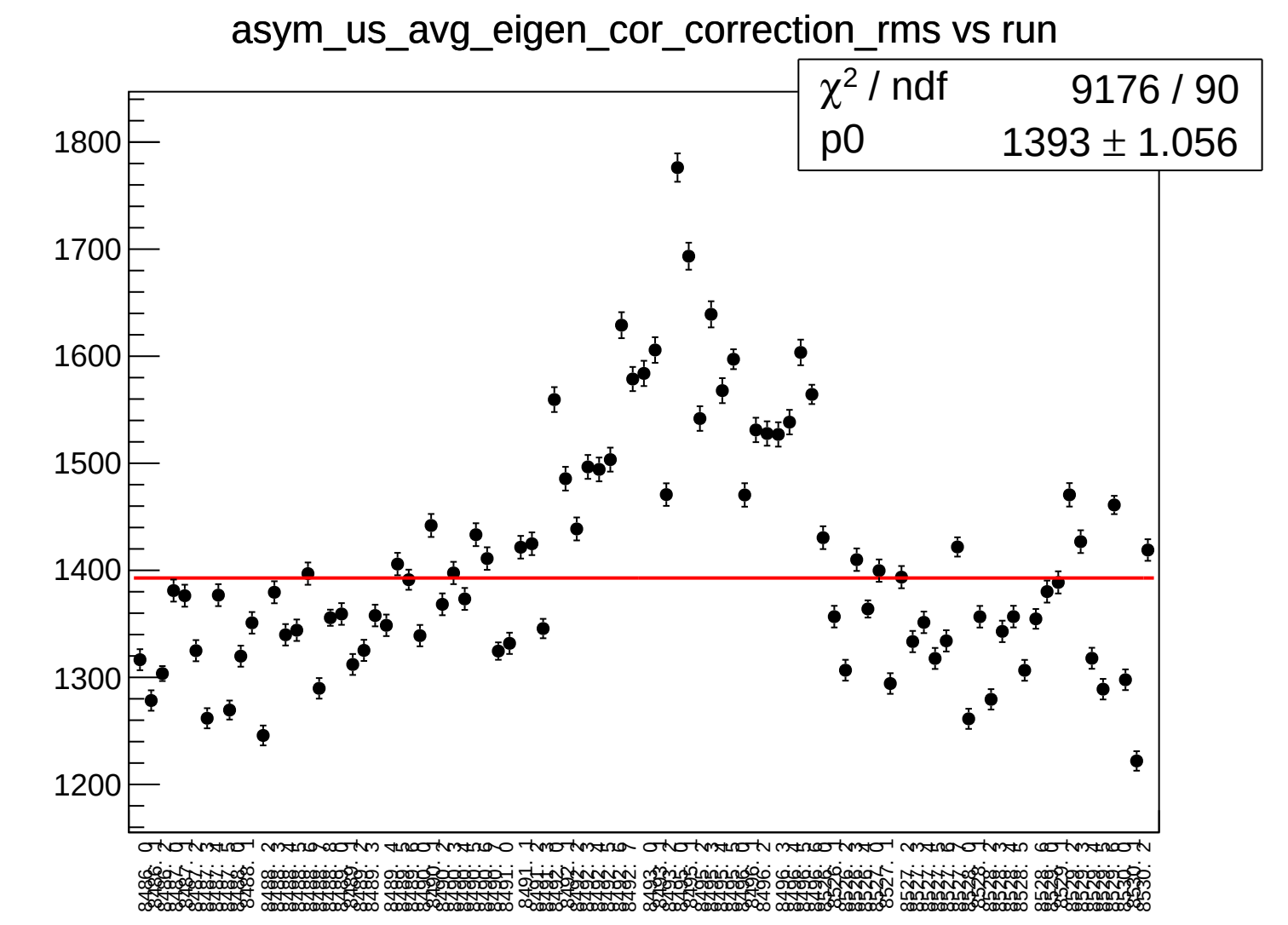
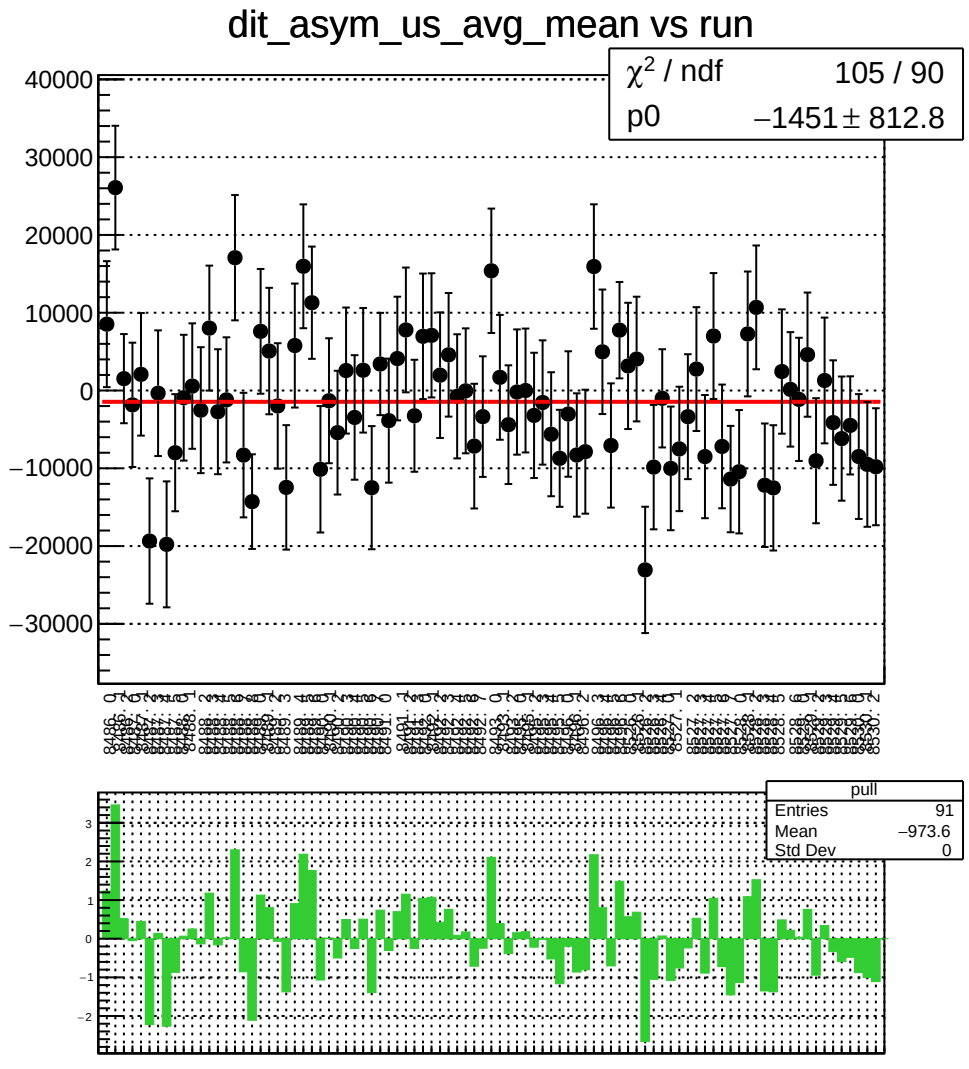
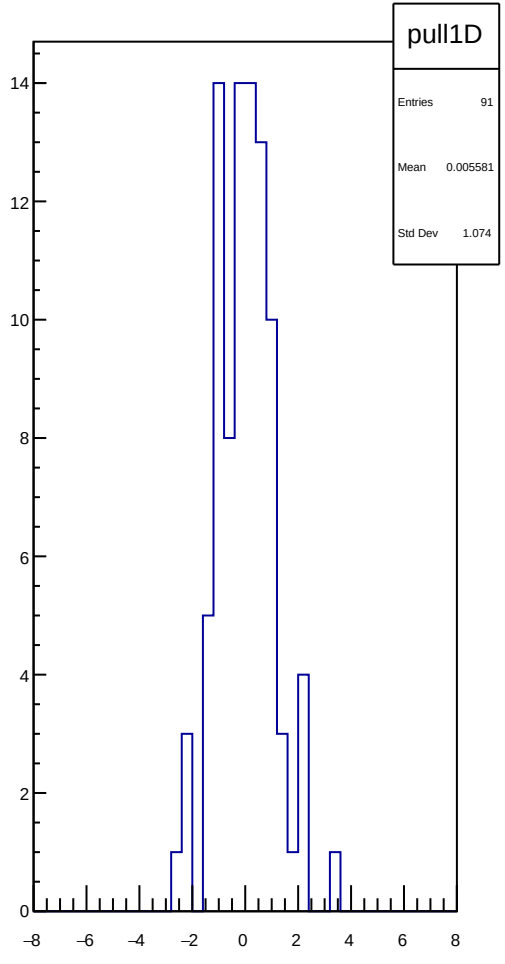
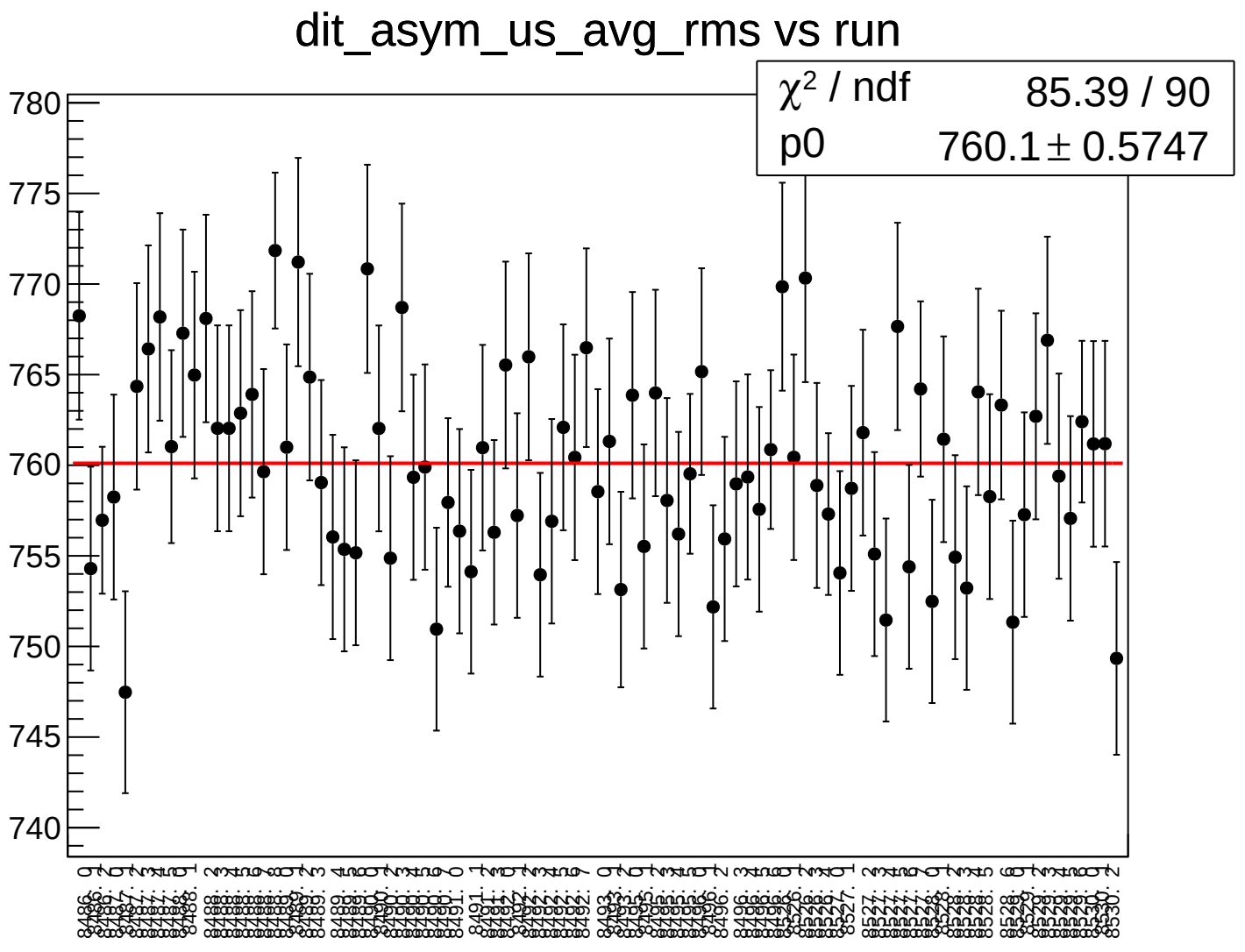
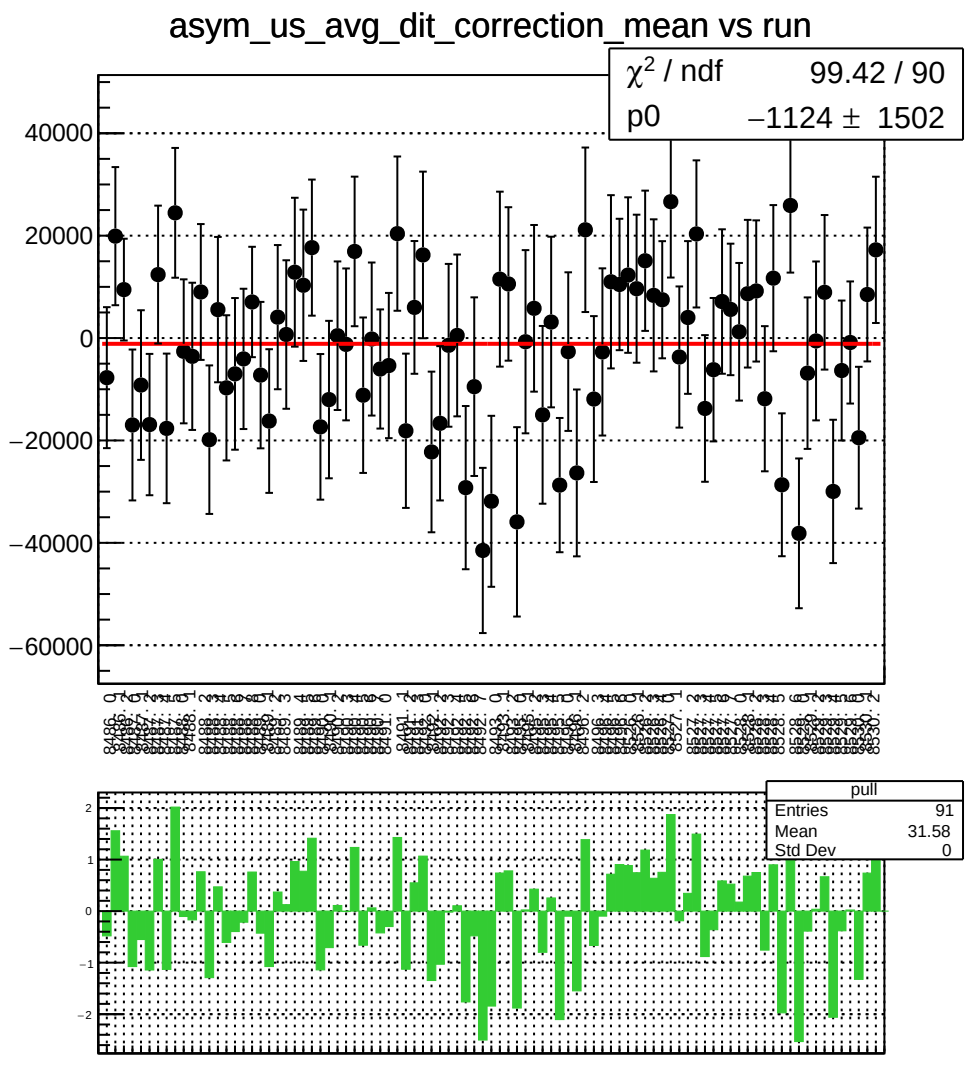
−4
−2
0
2
4
6
8

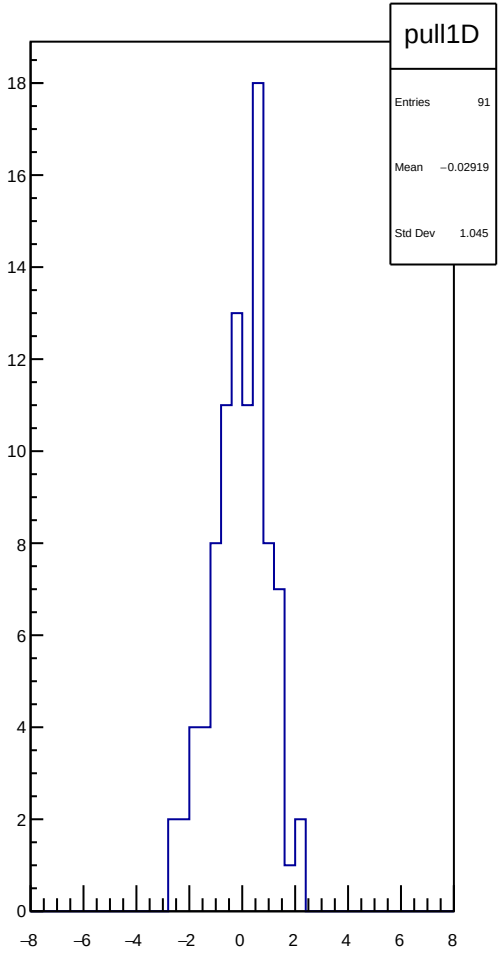

asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 9176 / 90
p0 1393 ± 1.056
1800
1700
1600
1500
1400
1300
1200


dit_asym_us_avg_mean vs run
χ² / ndf 105 / 90
p0 −1451 ± 812.8
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −973.6
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 91
Mean 0.005581
Std Dev 1.074
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_us_avg_rms vs run
χ² / ndf 85.39 / 90
p0 760.1 ± 0.5747
780
775
770
765
760
755
750
745
740


asym_us_avg_dit_correction_mean vs run
χ² / ndf 99.42 / 90
p0 −1124 ± 1502
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 31.58
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 91
Mean −0.02919
Std Dev 1.045
18
16
14
12
10
8
6
4
2
0
−8
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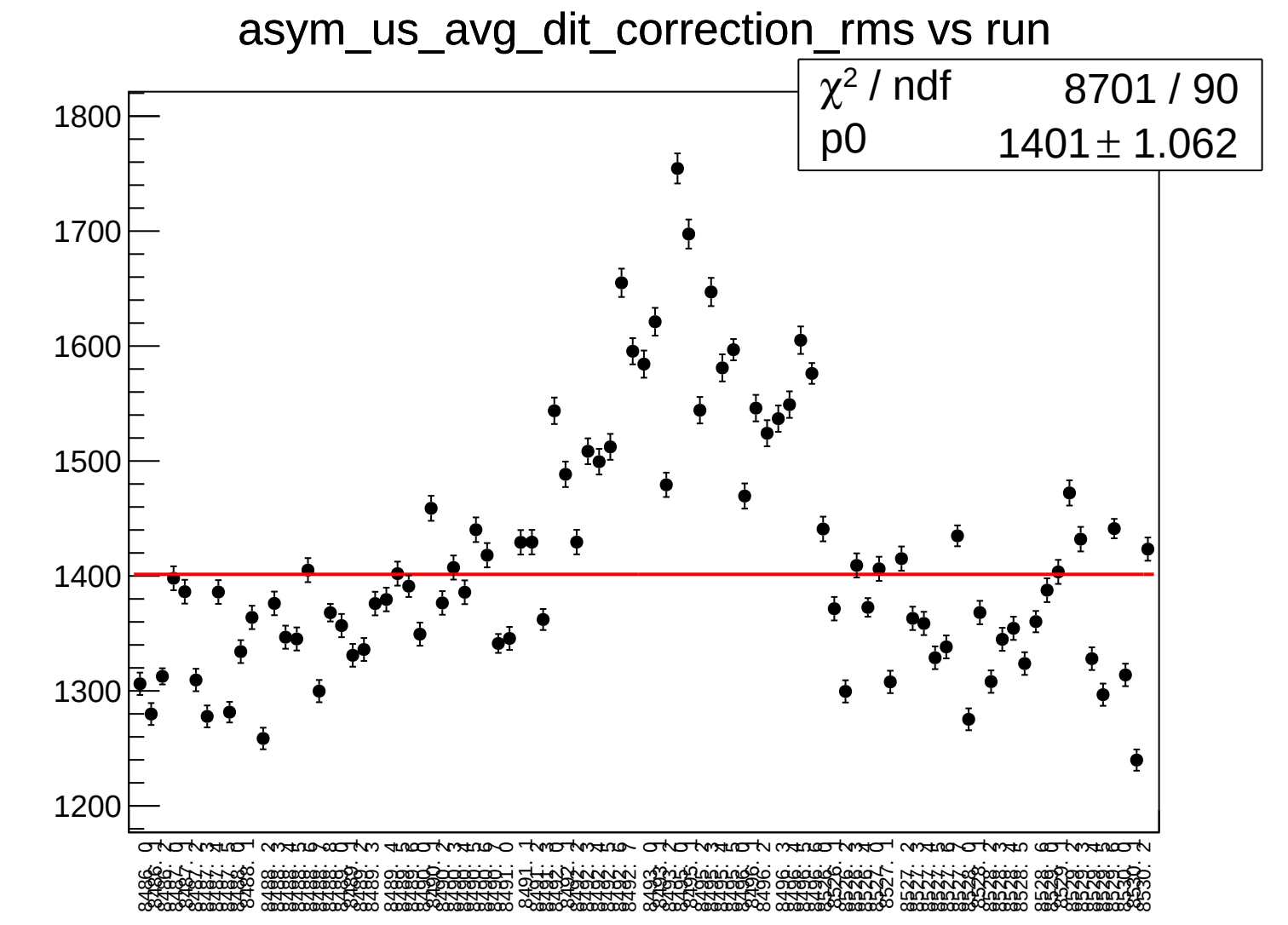
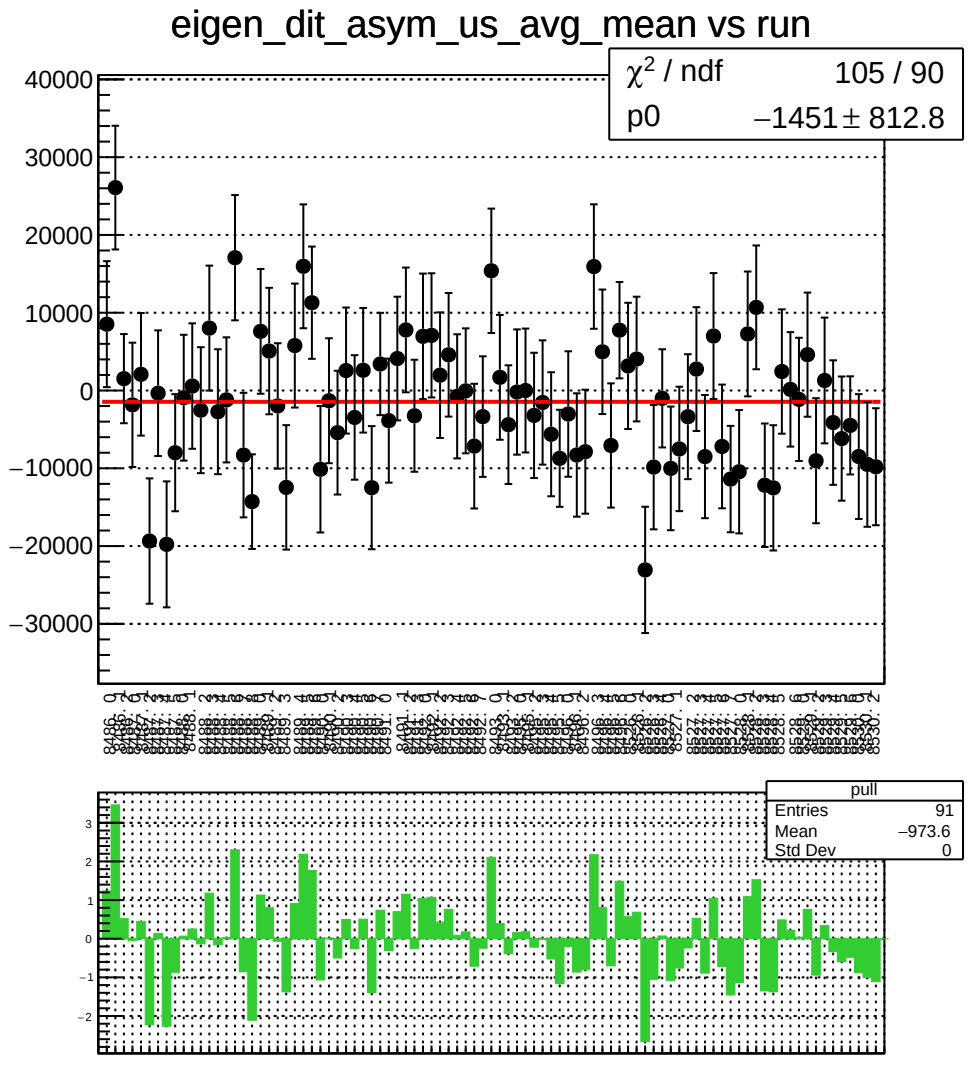
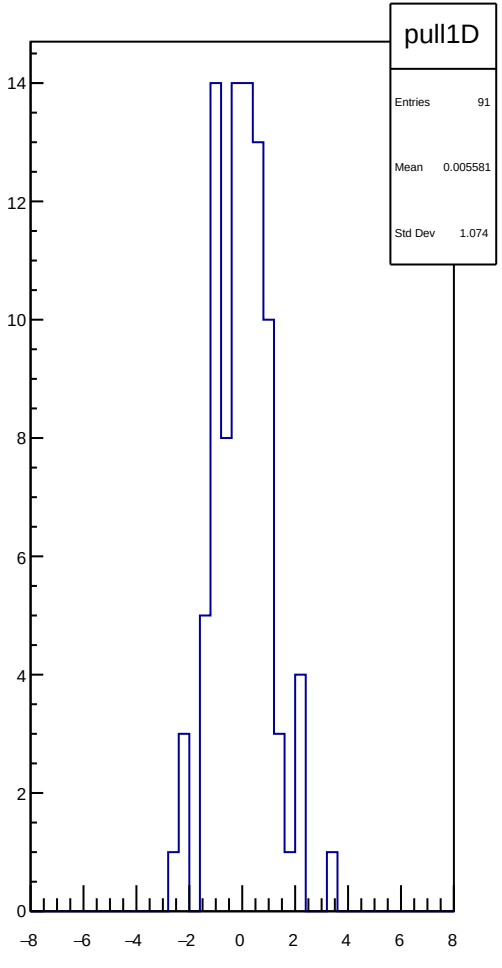
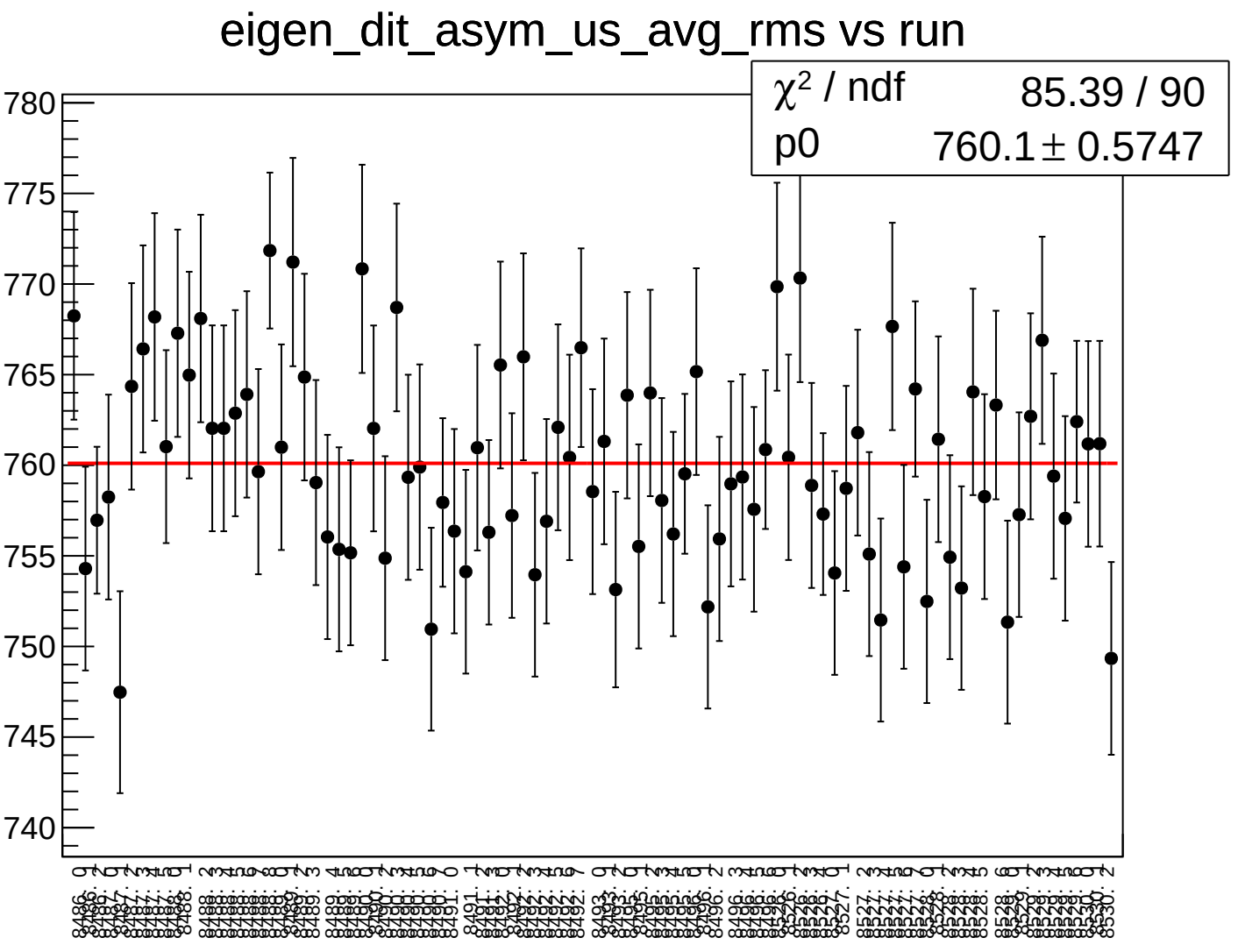
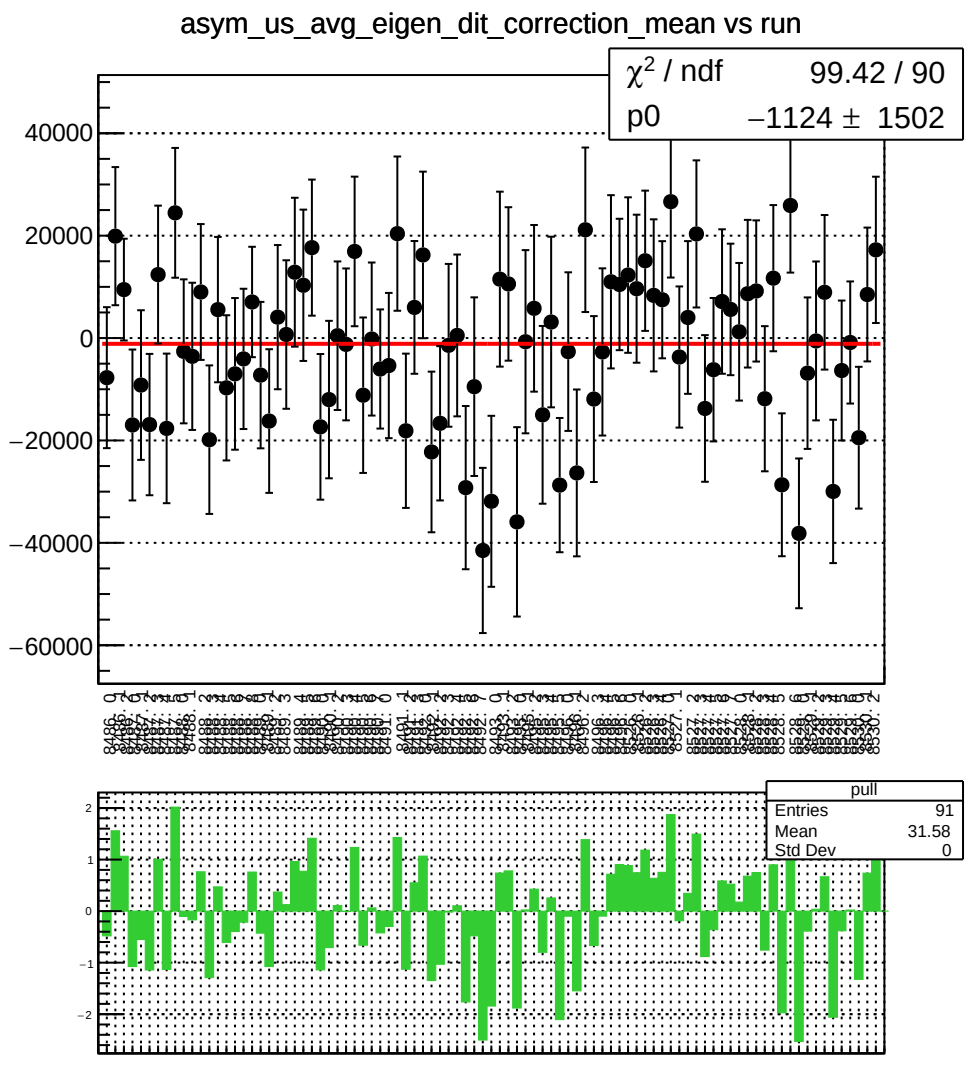
2
4
6
8

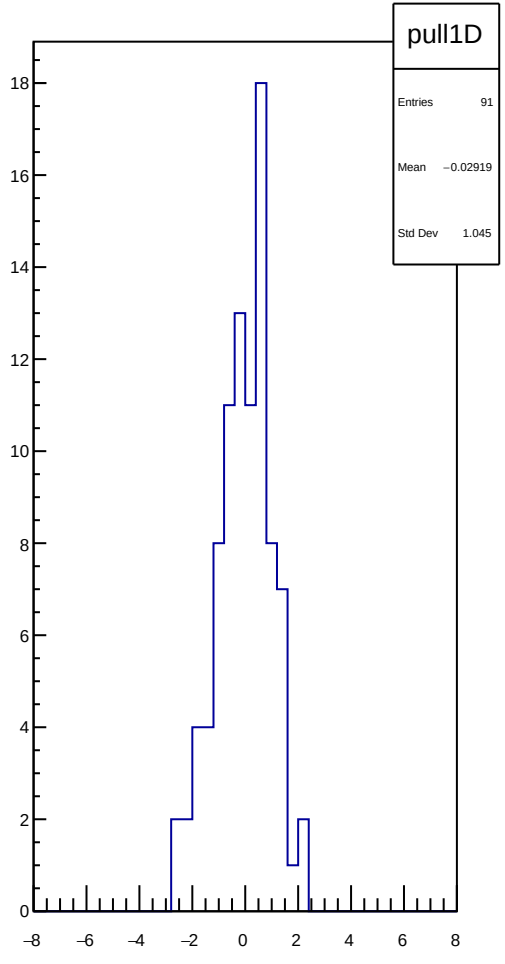

asym_us_avg_dit_correction_rms vs run
χ² / ndf 8701 / 90
p0 1401 ± 1.062
1800
1700
1600
1500
1400
1300
1200

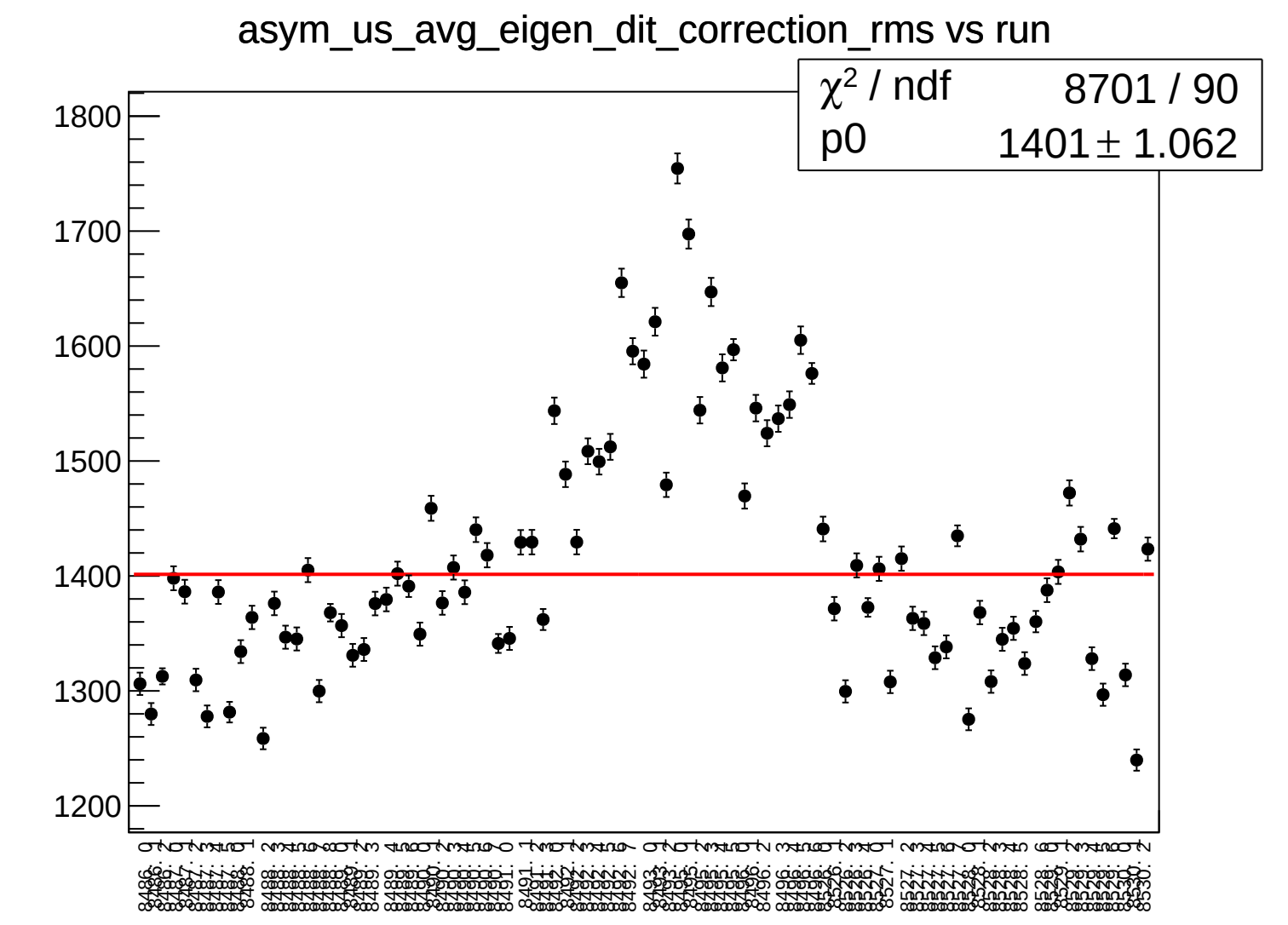

eigen_dit_asym_us_avg_mean vs run
χ² / ndf 105 / 90
p0 −1451 ± 812.8
pull
Entries 91
Mean −973.6
Std Dev 0

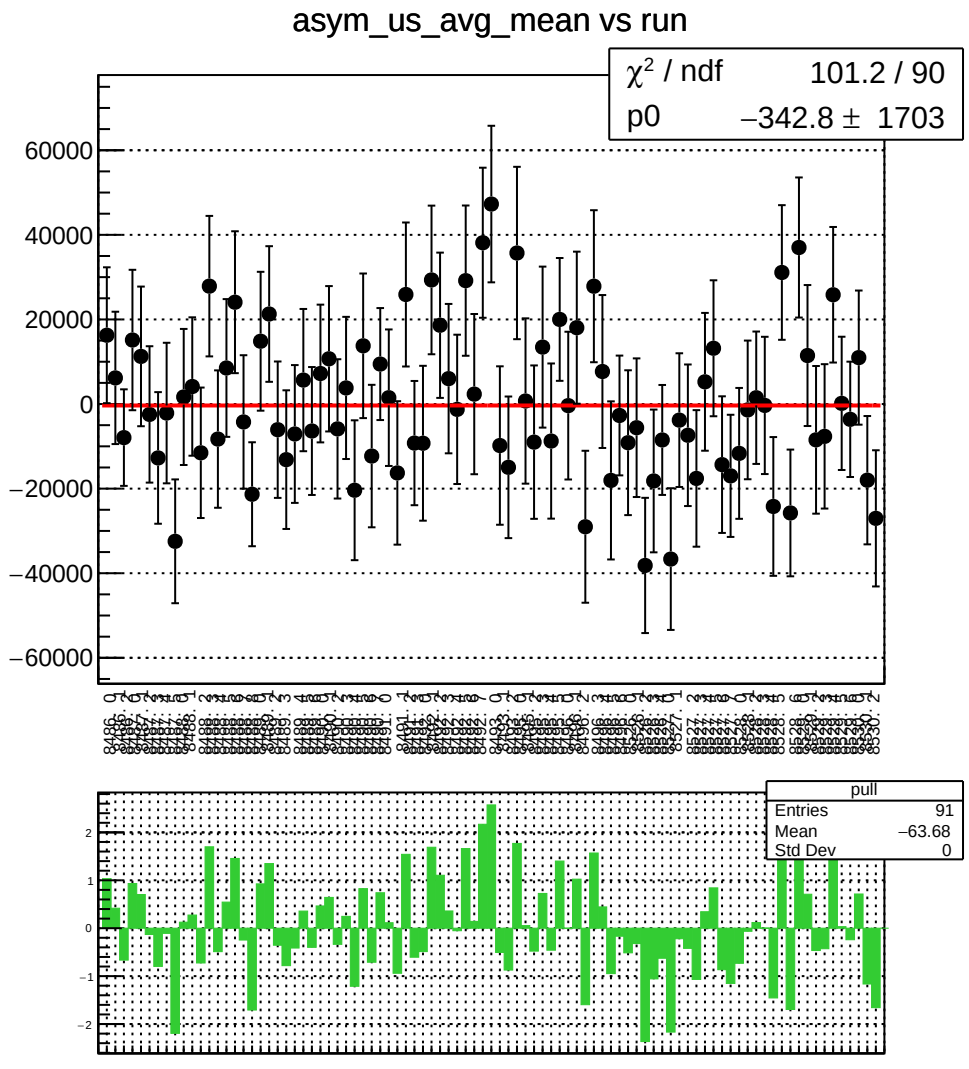

pull1D
Entries 91
Mean 0.005581
Std Dev 1.074

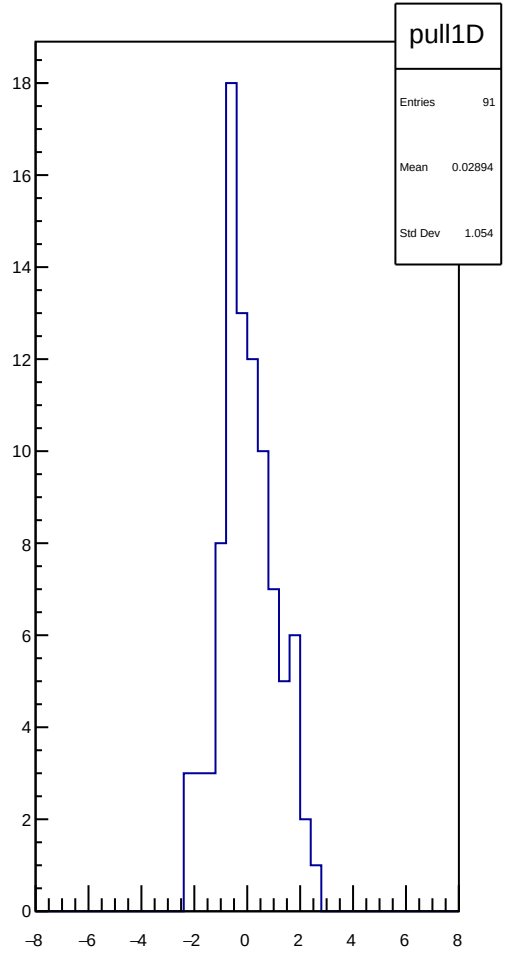

eigen_dit_asym_us_avg_rms vs run
χ² / ndf 85.39 / 90
p0 760.1 ± 0.5747
780
775
770
765
760
755
750
745
740


asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 99.42 / 90
p0 −1124 ± 1502
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 31.58
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 91
Mean −0.02919
Std Dev 1.045
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 8701 / 90
p0 1401 ± 1.062
1800
1700
1600
1500
1400
1300
1200


asym_us_avg_mean vs run
χ² / ndf 101.2 / 90
p0 −342.8 ± 1703
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −63.68
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 91
Mean 0.02894
Std Dev 1.054
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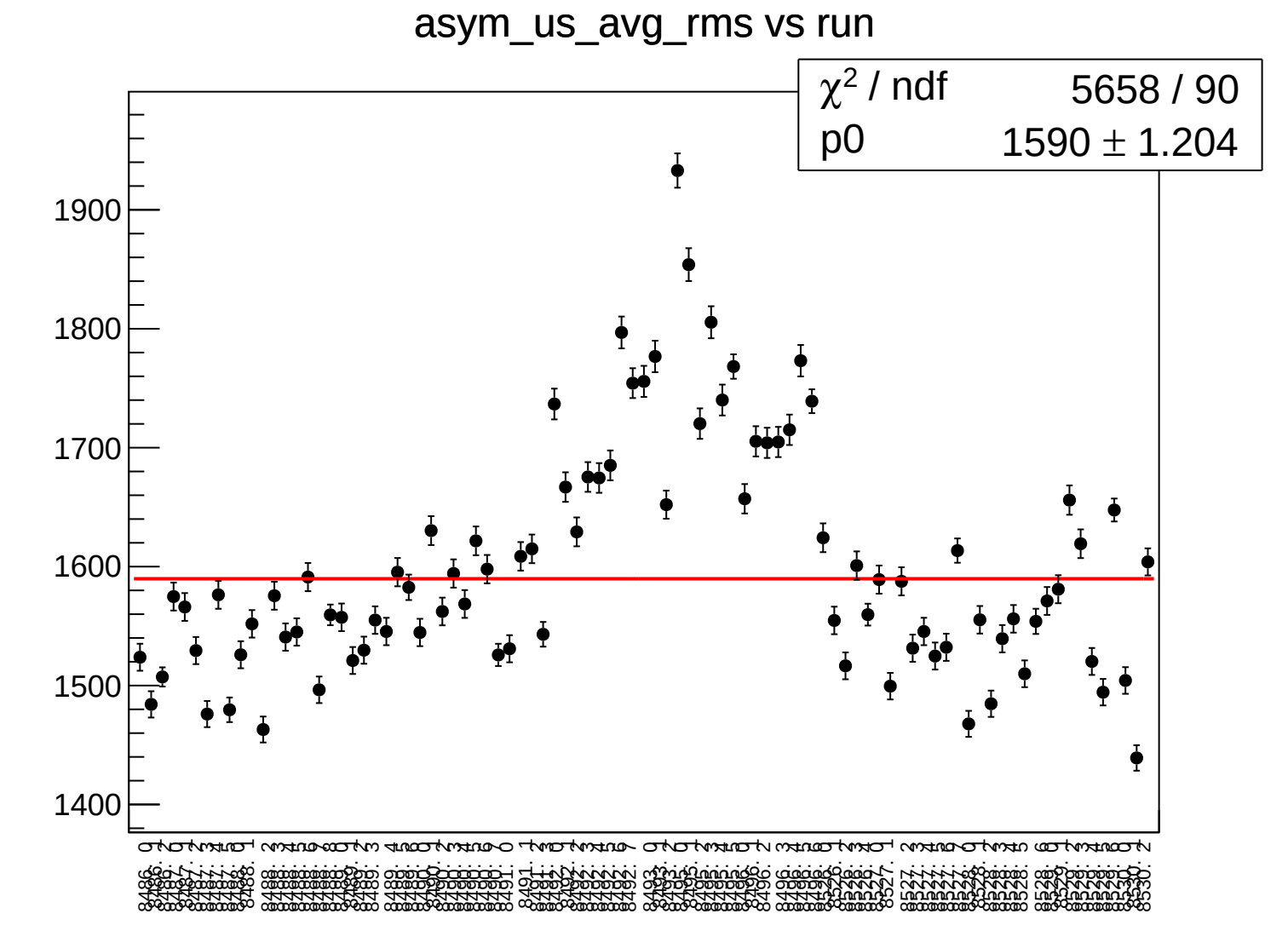
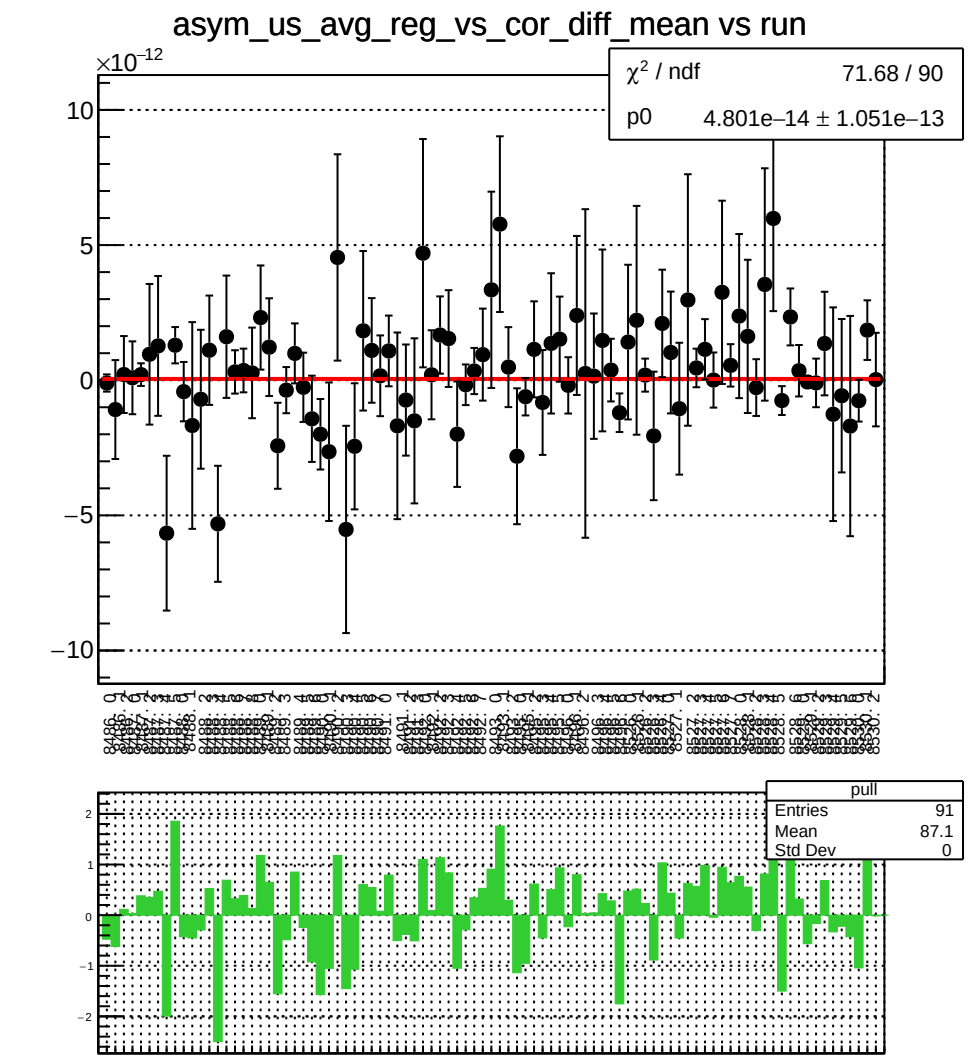
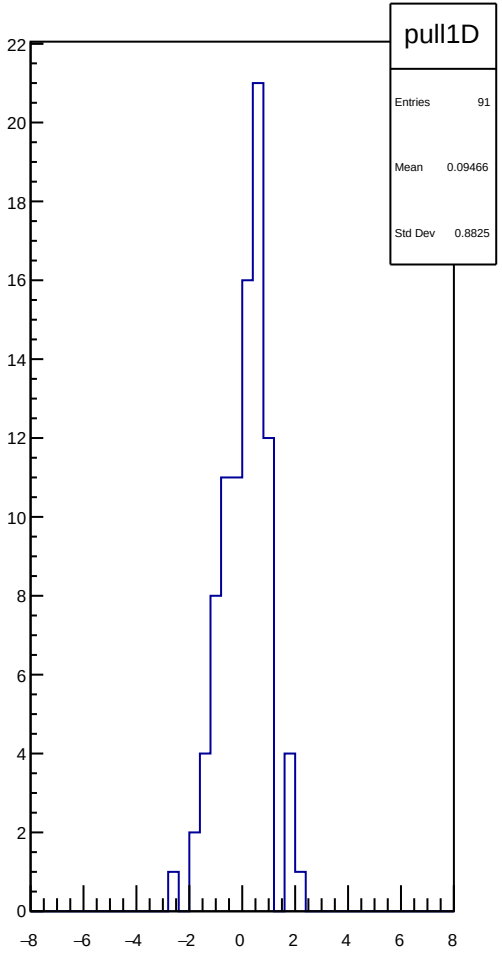
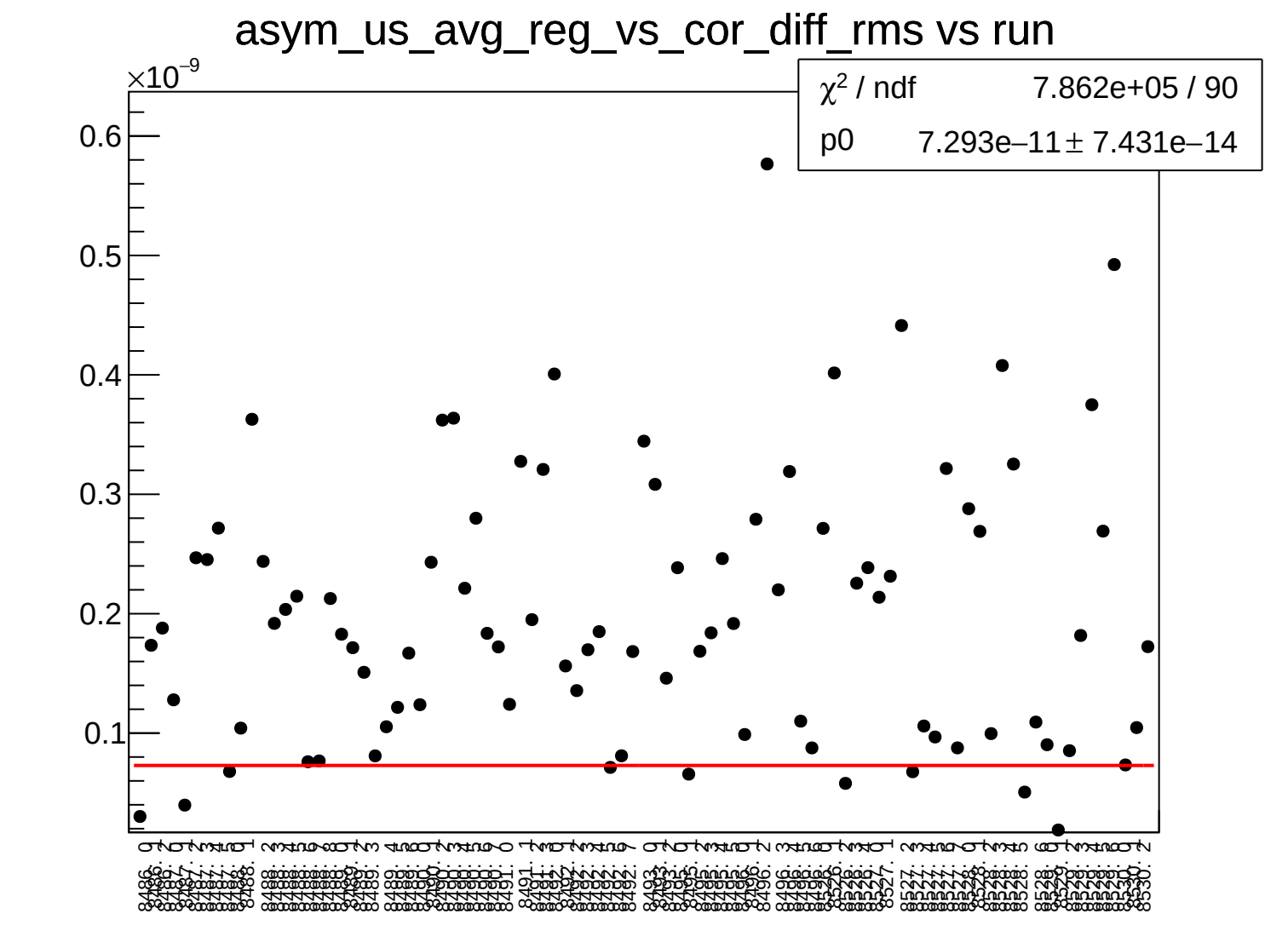
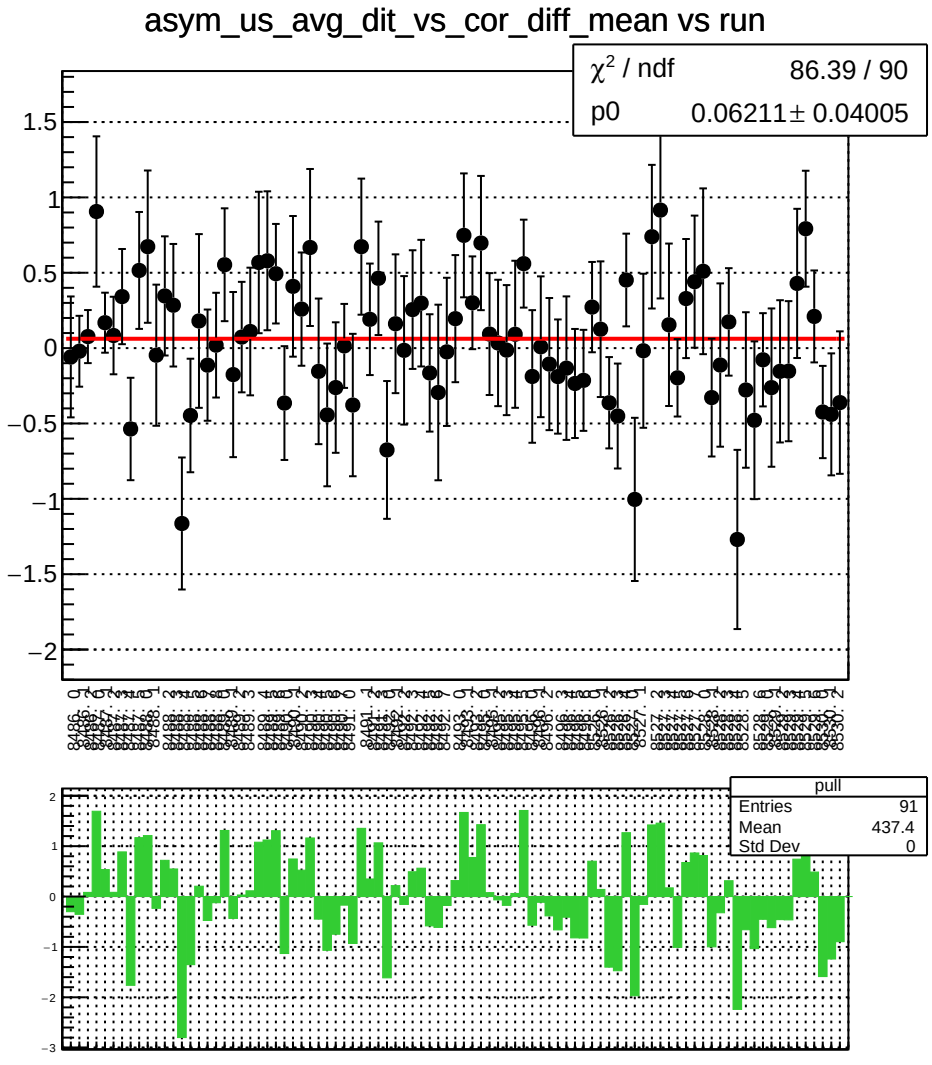
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

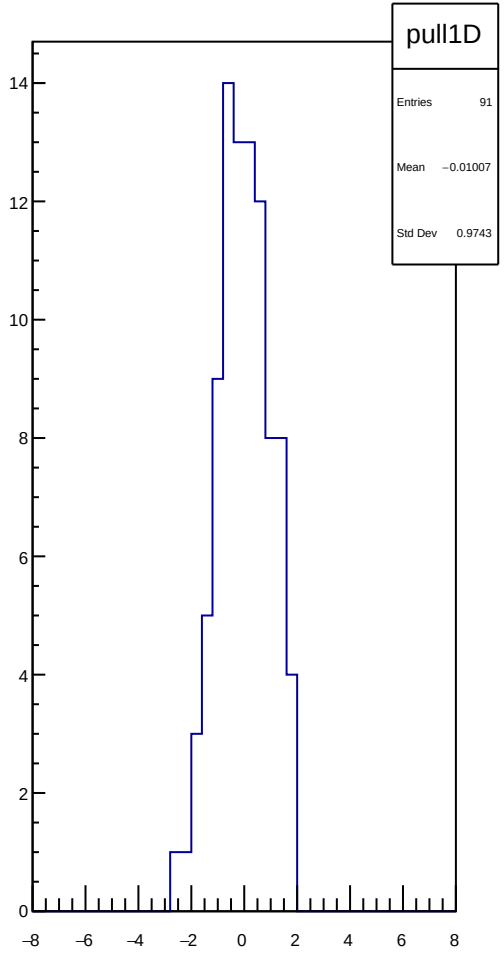

asym_us_avg_rms vs run
χ² / ndf 5658 / 90
p0 1590 ± 1.204
1900
1800
1700
1600
1500
1400

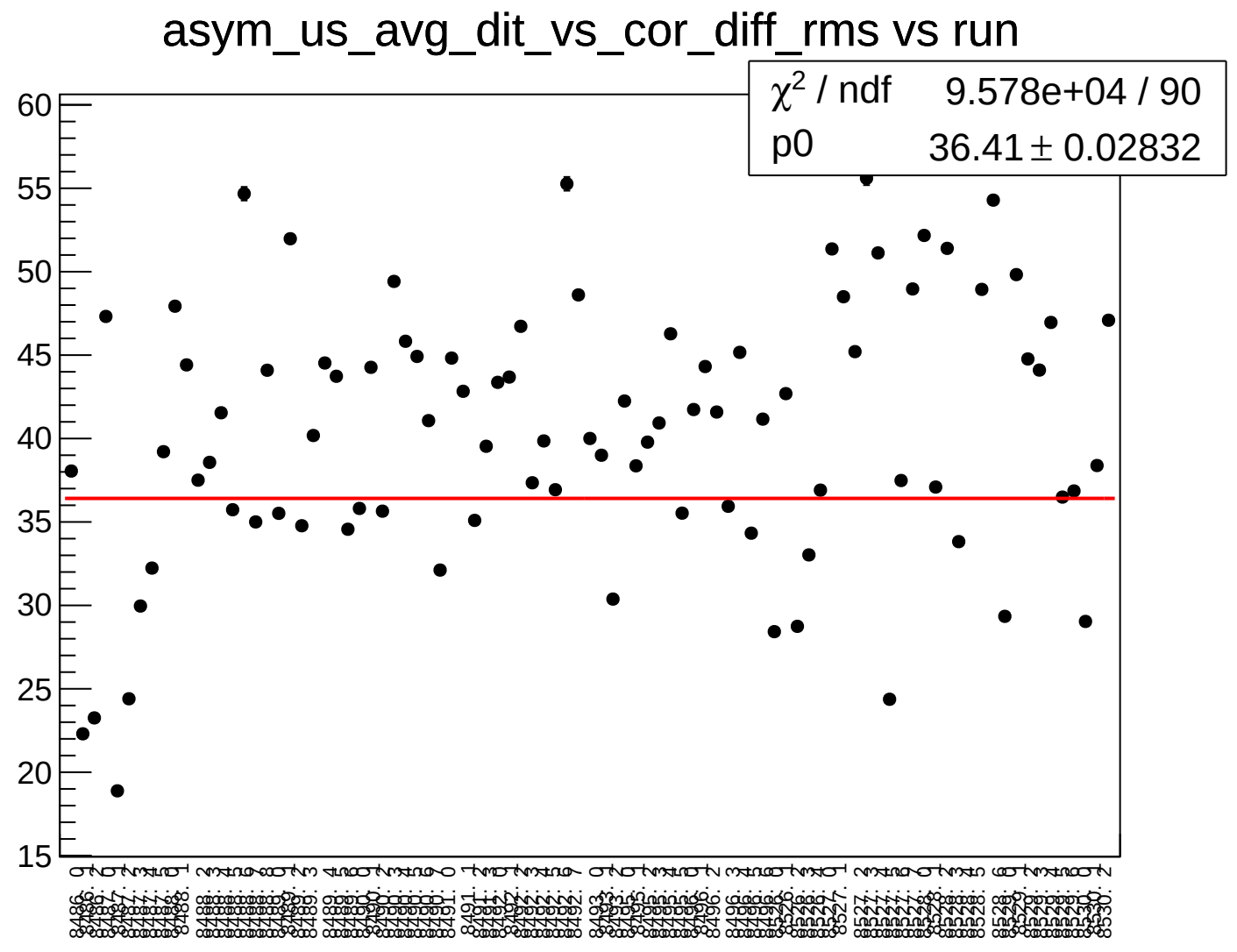

asym_us_avg_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71.68 / 90
p0 4.801e−14 ± 1.051e−13
pull
Entries 91
Mean 87.1
Std Dev 0

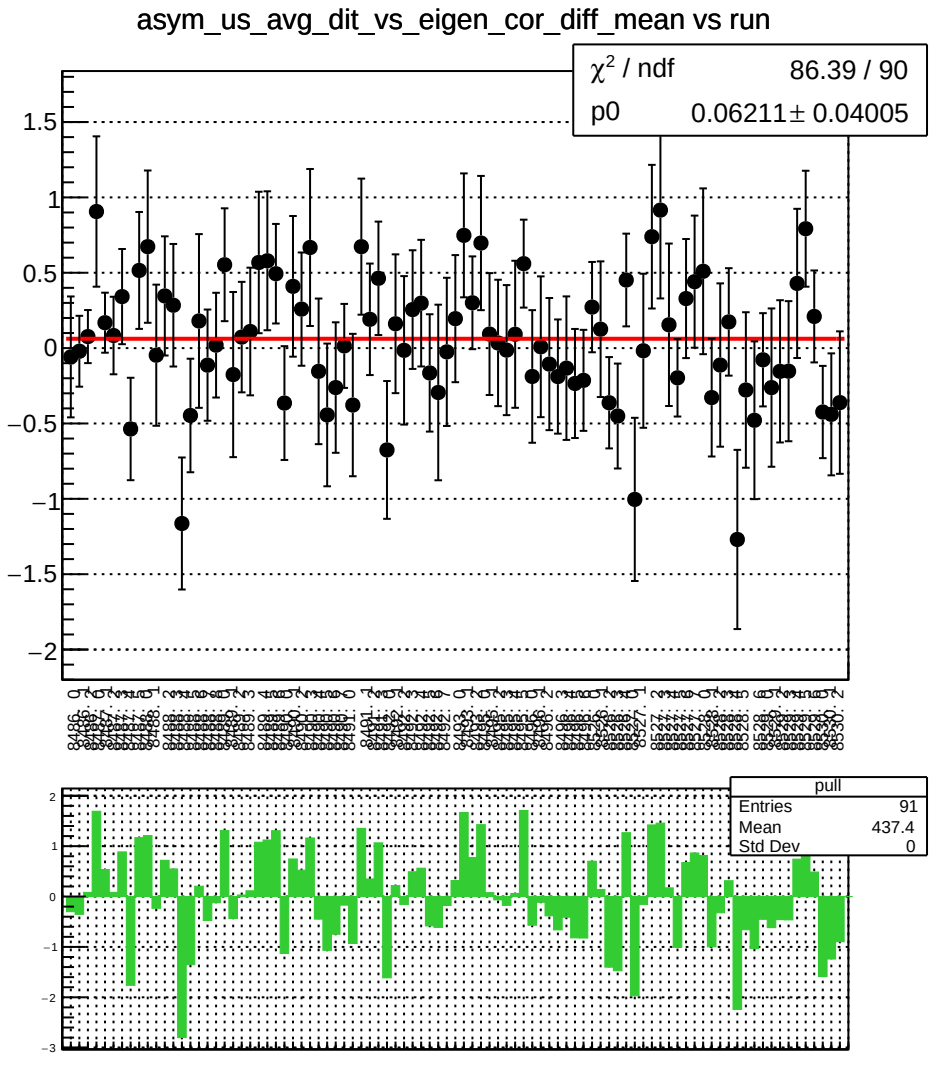

pull1D
Entries 91
Mean 0.09466
Std Dev 0.8825

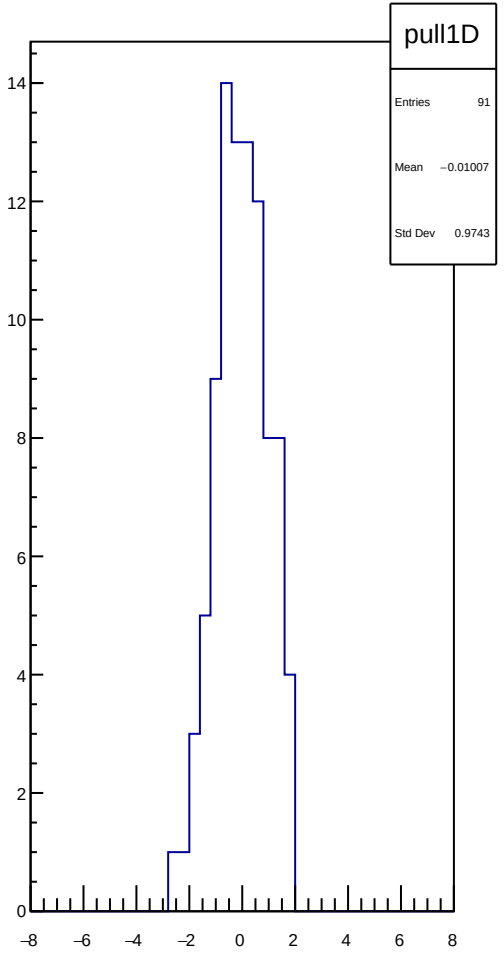

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.862e+05 / 90
p0 7.293e−11 ± 7.431e−14
0.6
0.5
0.4
0.3
0.2
0.1

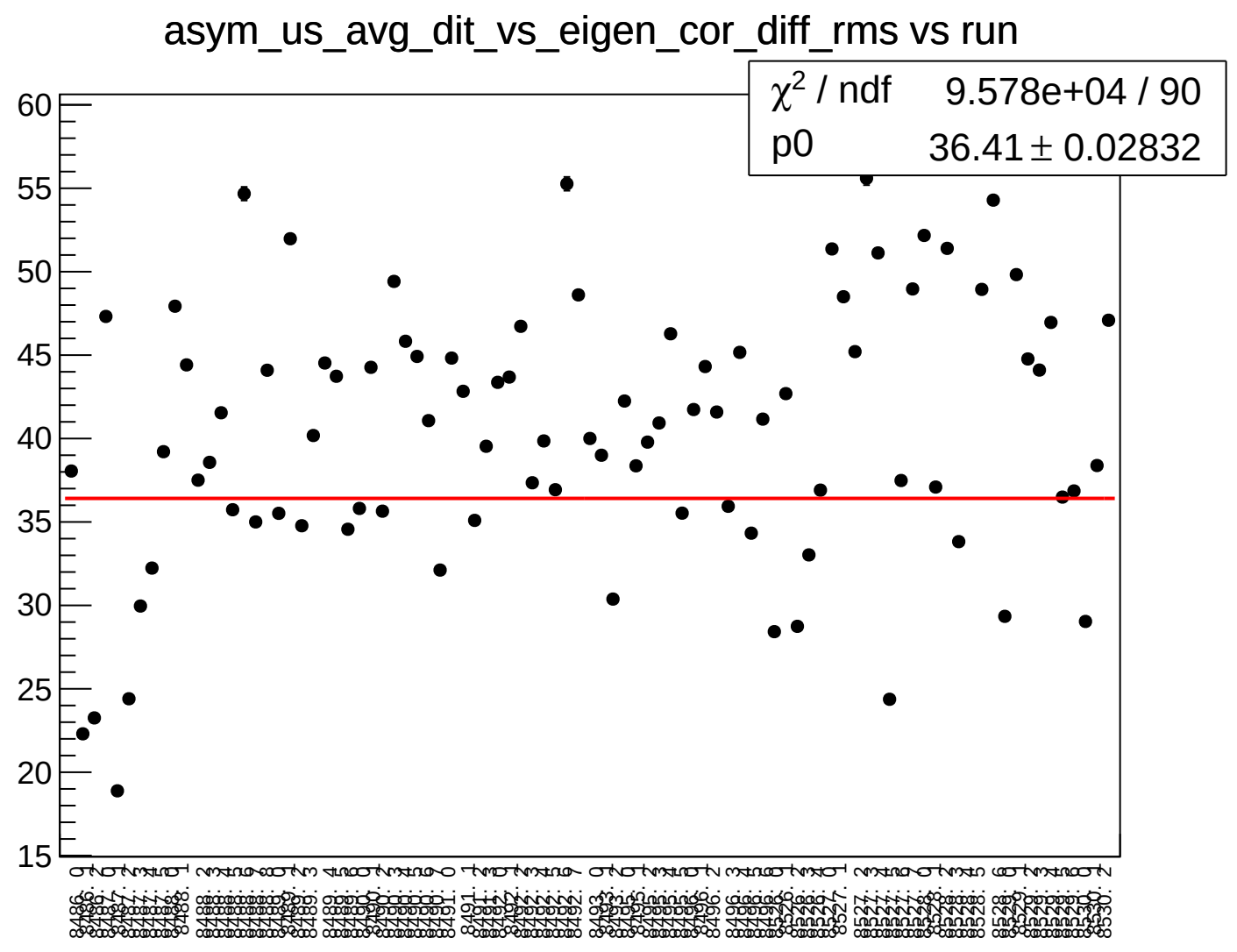

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 86.39 / 90
p0 0.06211 ± 0.04005
pull
Entries 91
Mean 437.4
Std Dev 0

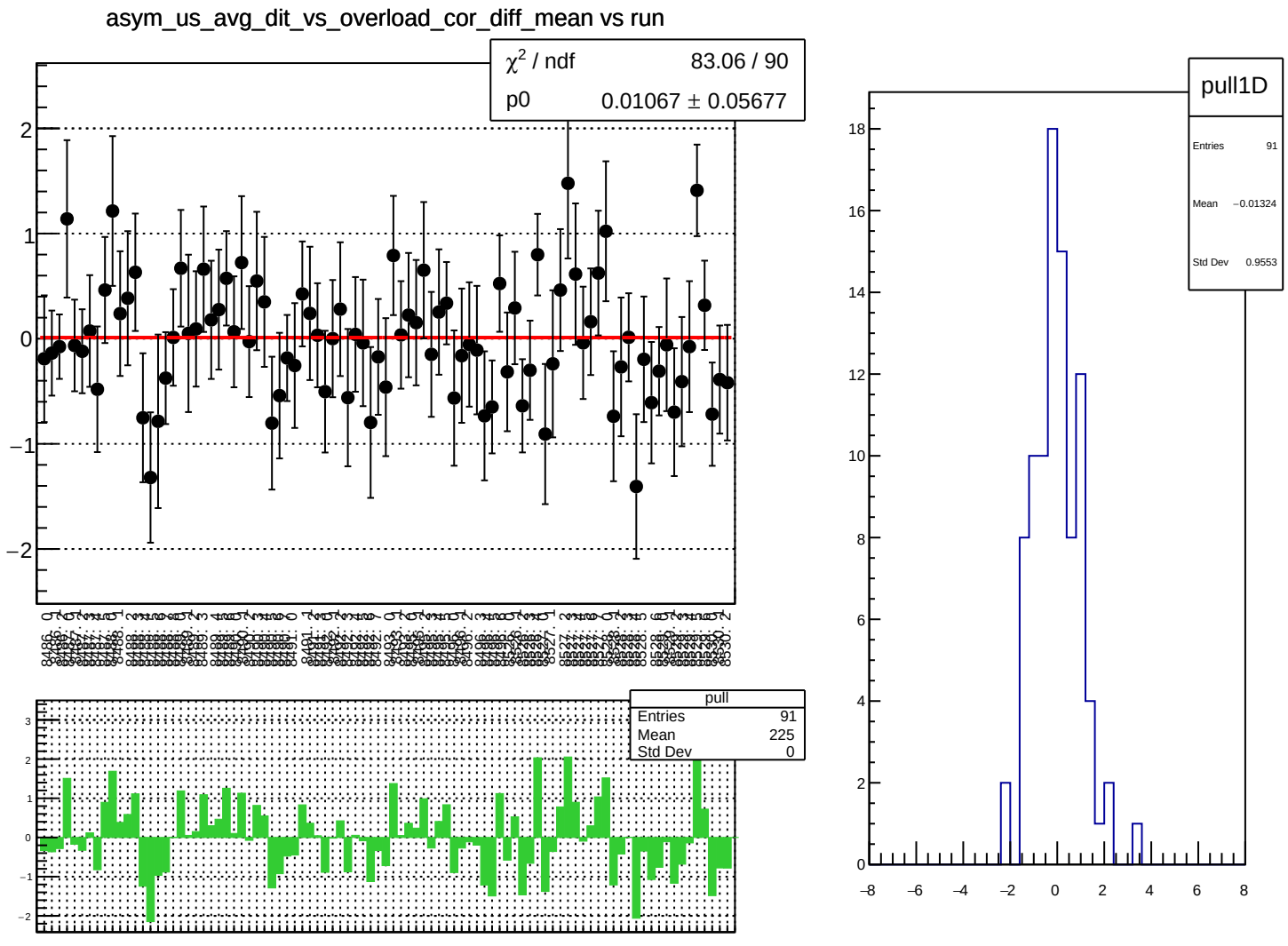

pull1D
Entries 91
Mean −0.01007
Std Dev 0.9743

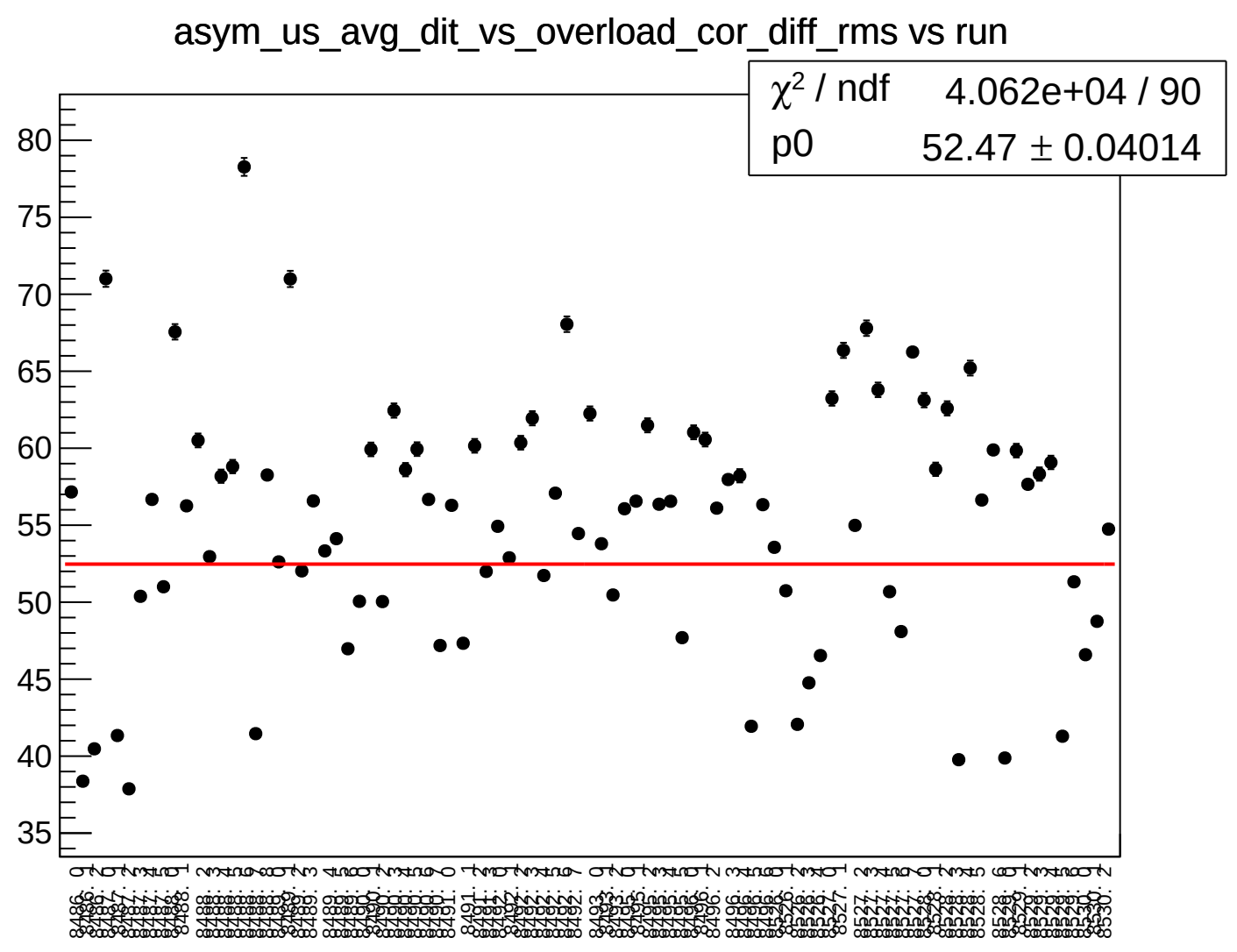

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9.578e+04 / 90
p0 36.41 ± 0.02832
60
55
50
45
40
35
30
25
20
15

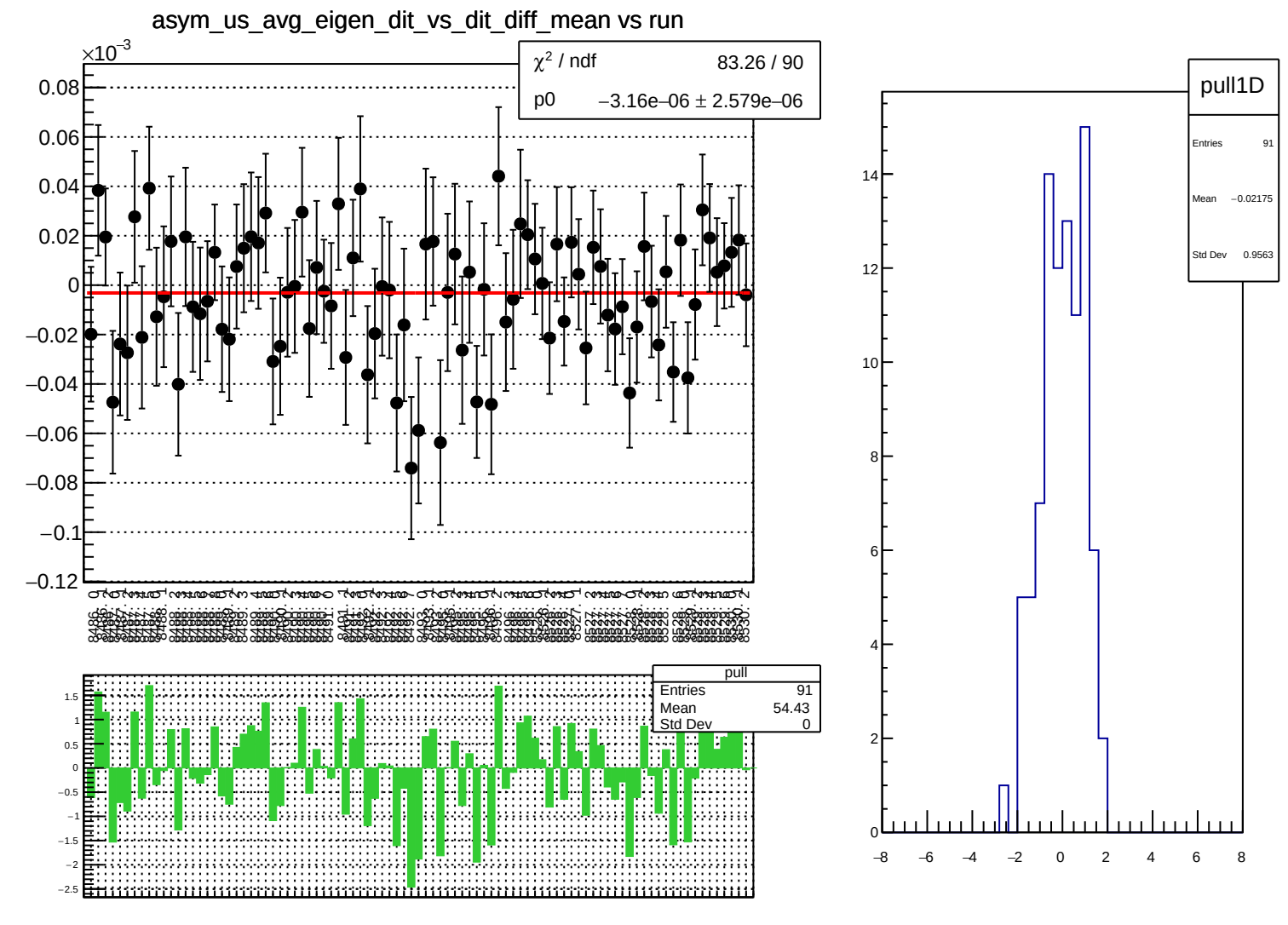

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.39 / 90
p0 0.06211 ± 0.04005
pull
Entries 91
Mean 437.4
Std Dev 0

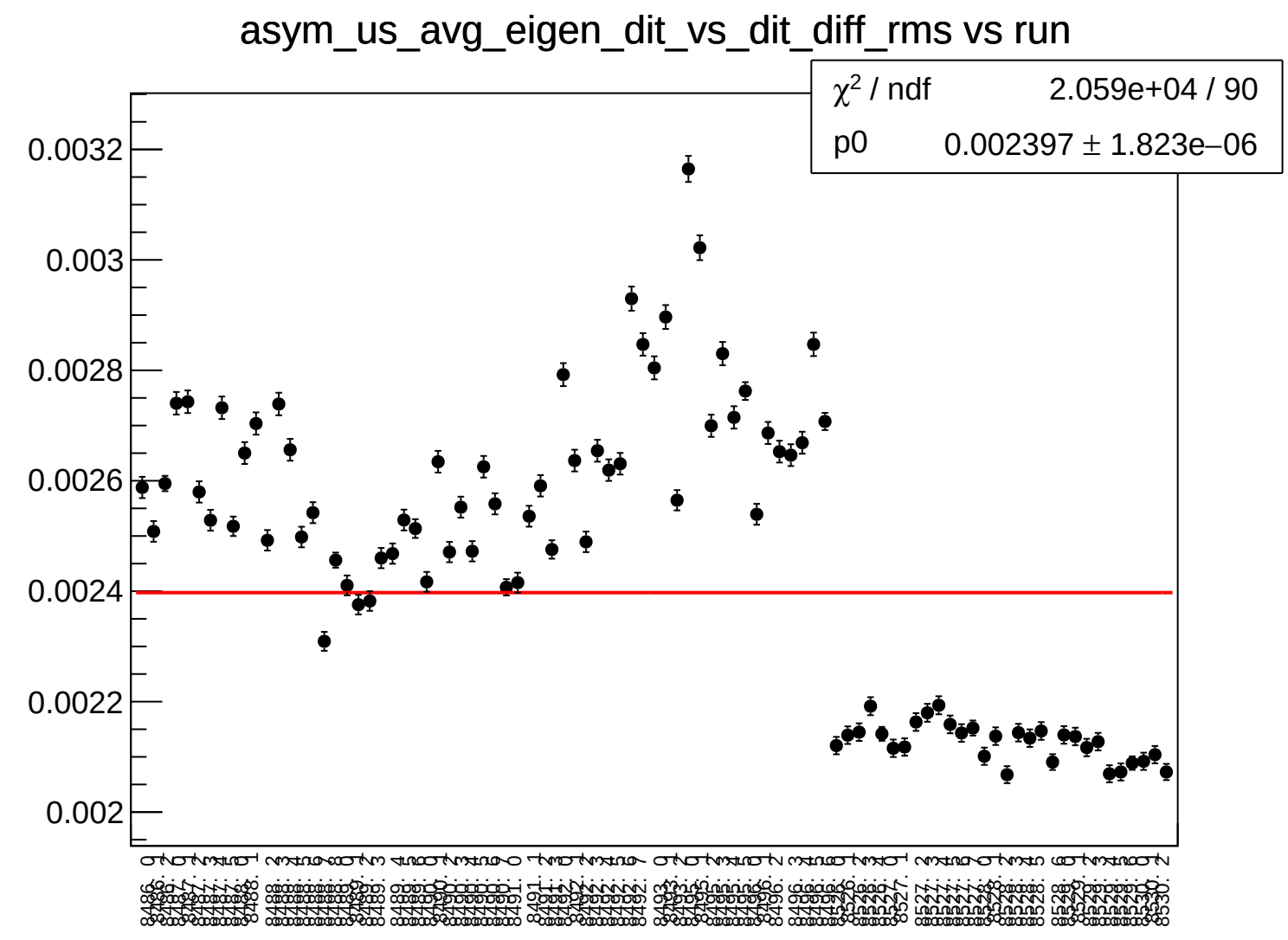

pull1D
Entries 91
Mean −0.01007
Std Dev 0.9743

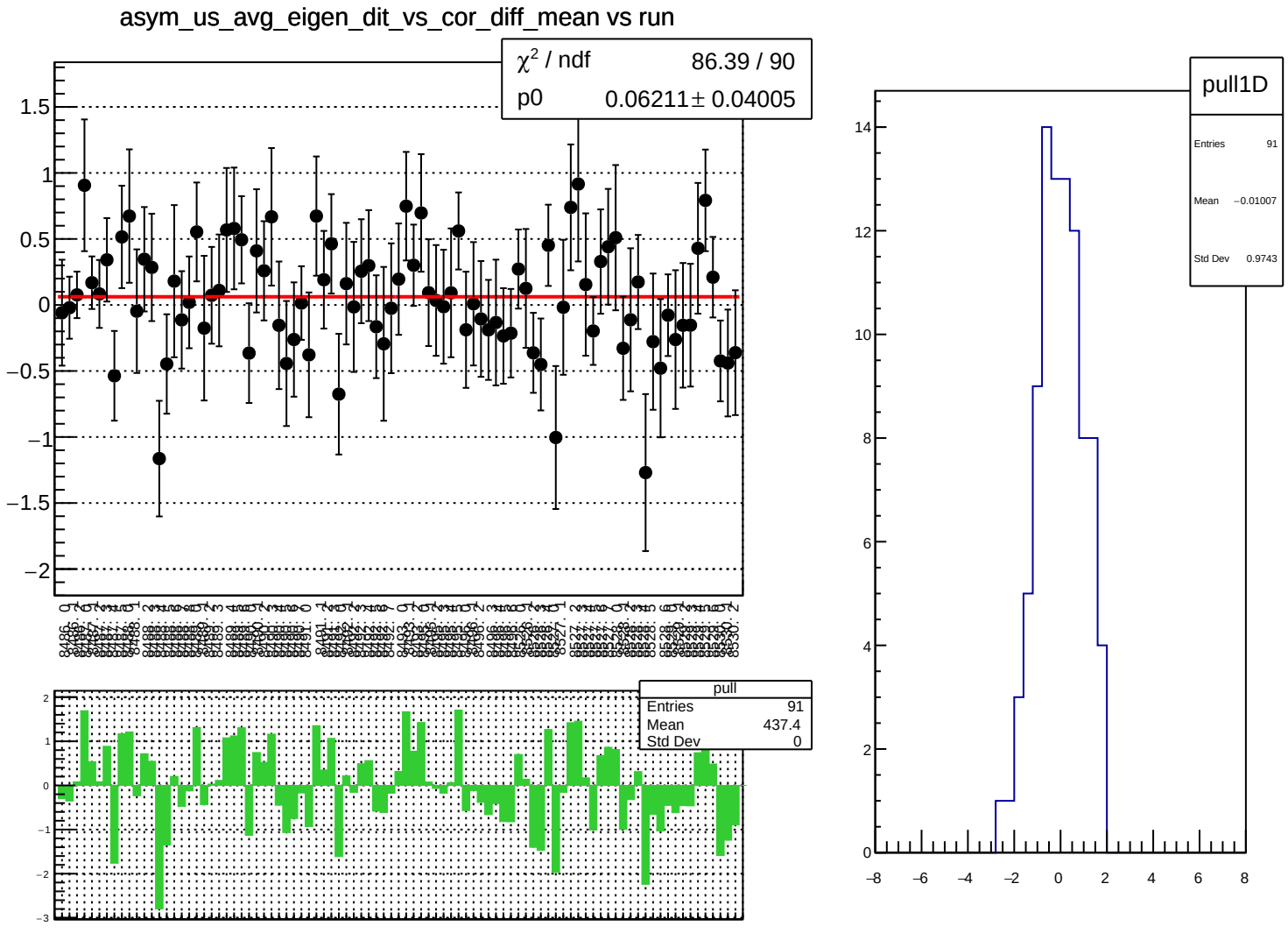

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.578e+04 / 90
p0 36.41 ± 0.02832
60
55
50
45
40
35
30
25
20
15

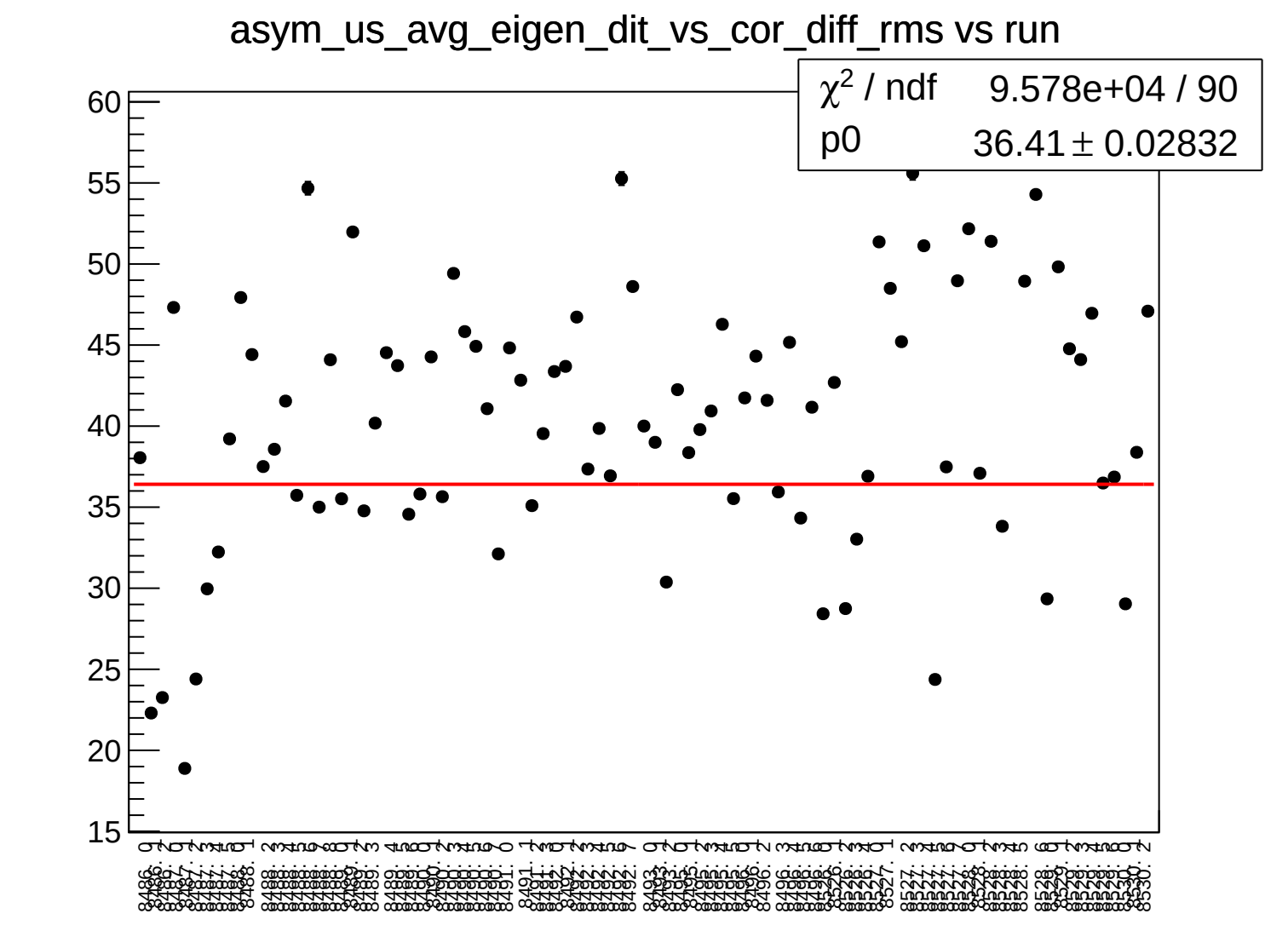

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 83.06 / 90
p0 0.01067 ± 0.05677
pull
Entries 91
Mean 225
Std Dev 0
pull1D
Entries 91
Mean −0.01324
Std Dev 0.9553

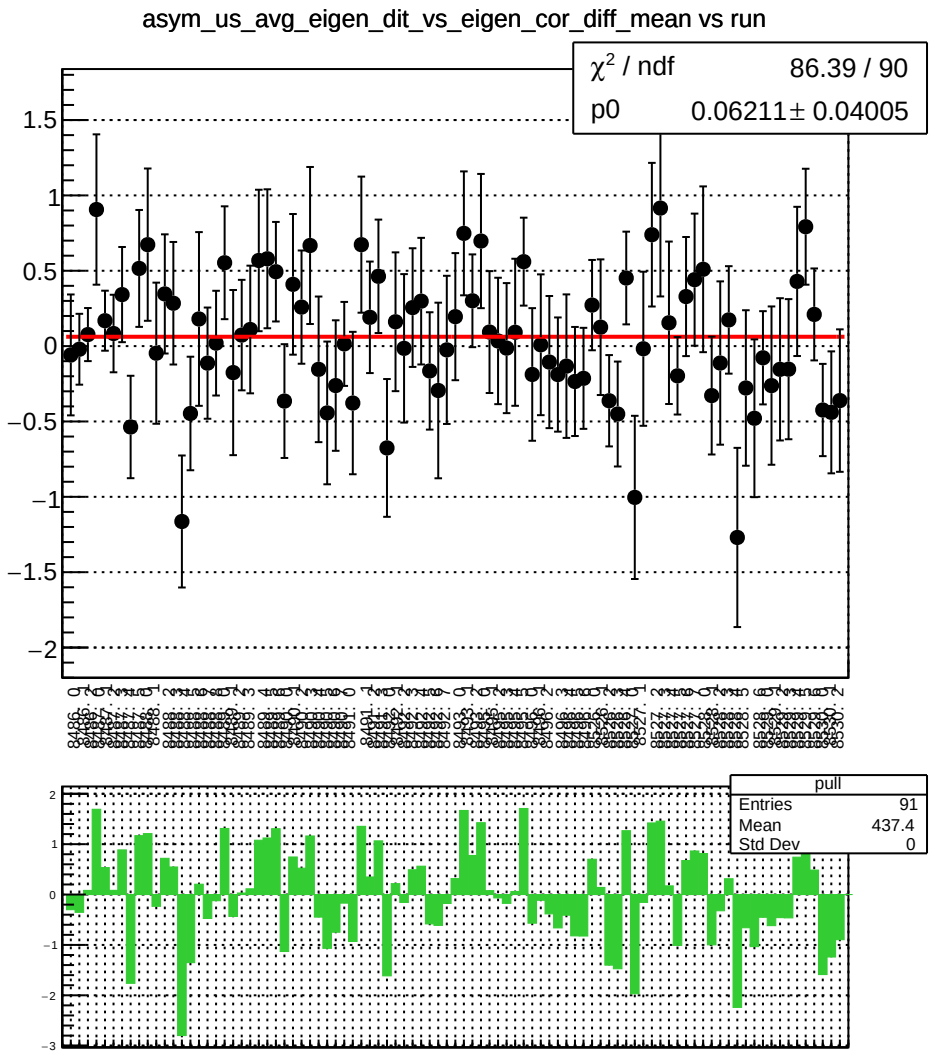

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 4.062e+04 / 90
p0 52.47 ± 0.04014
80
75
70
65
60
55
50
45
40
35

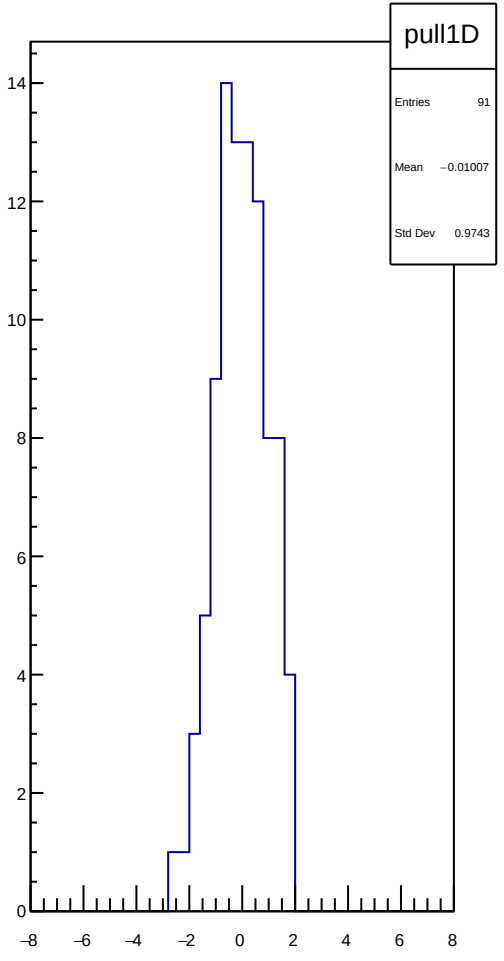

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.26 / 90
p0 −3.16e−06 ± 2.579e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
pull
Entries 91
Mean 54.43
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 91
Mean −0.02175
Std Dev 0.9563
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

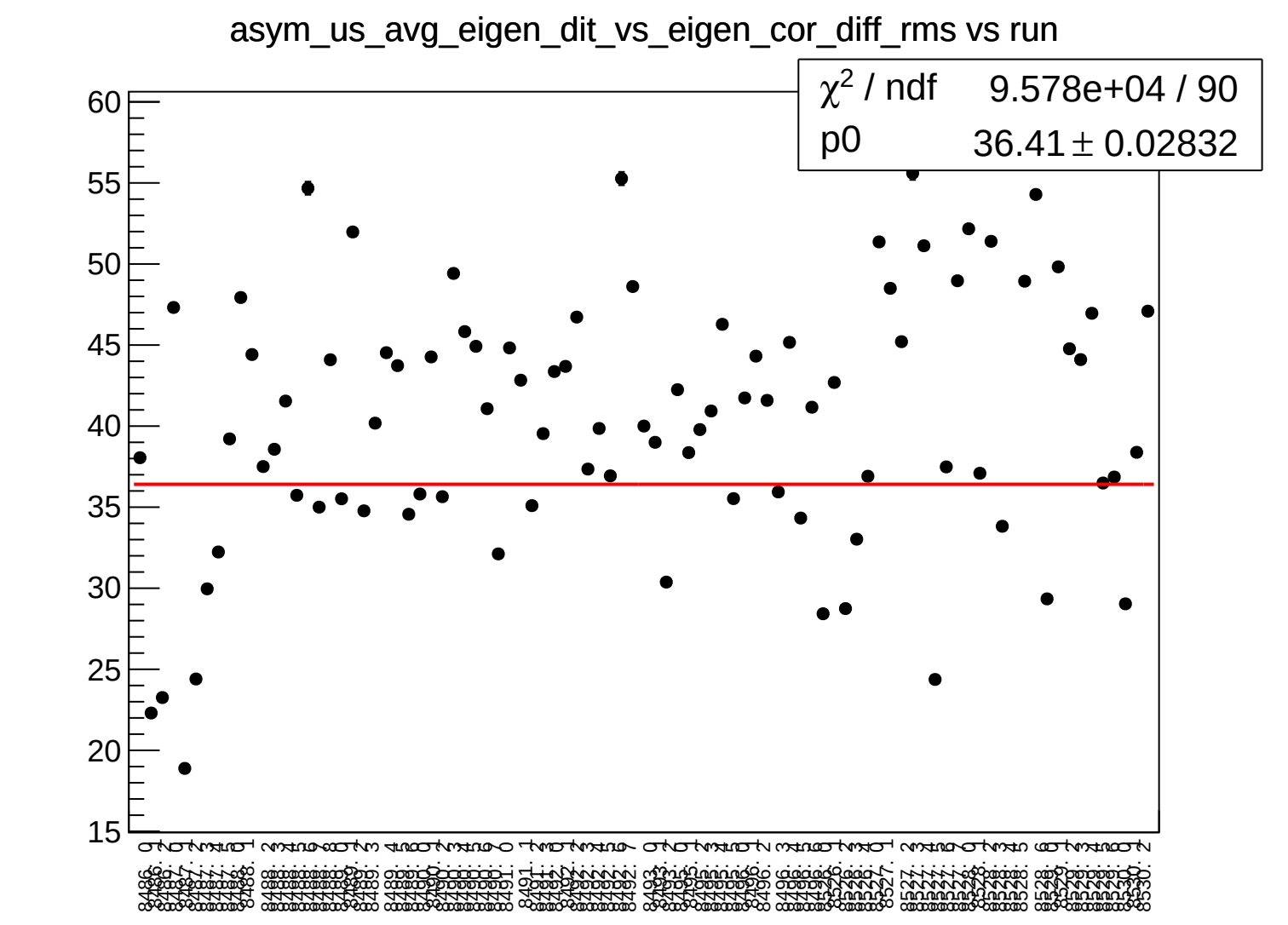

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.059e+04 / 90
p0 0.002397 ± 1.823e−06
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002

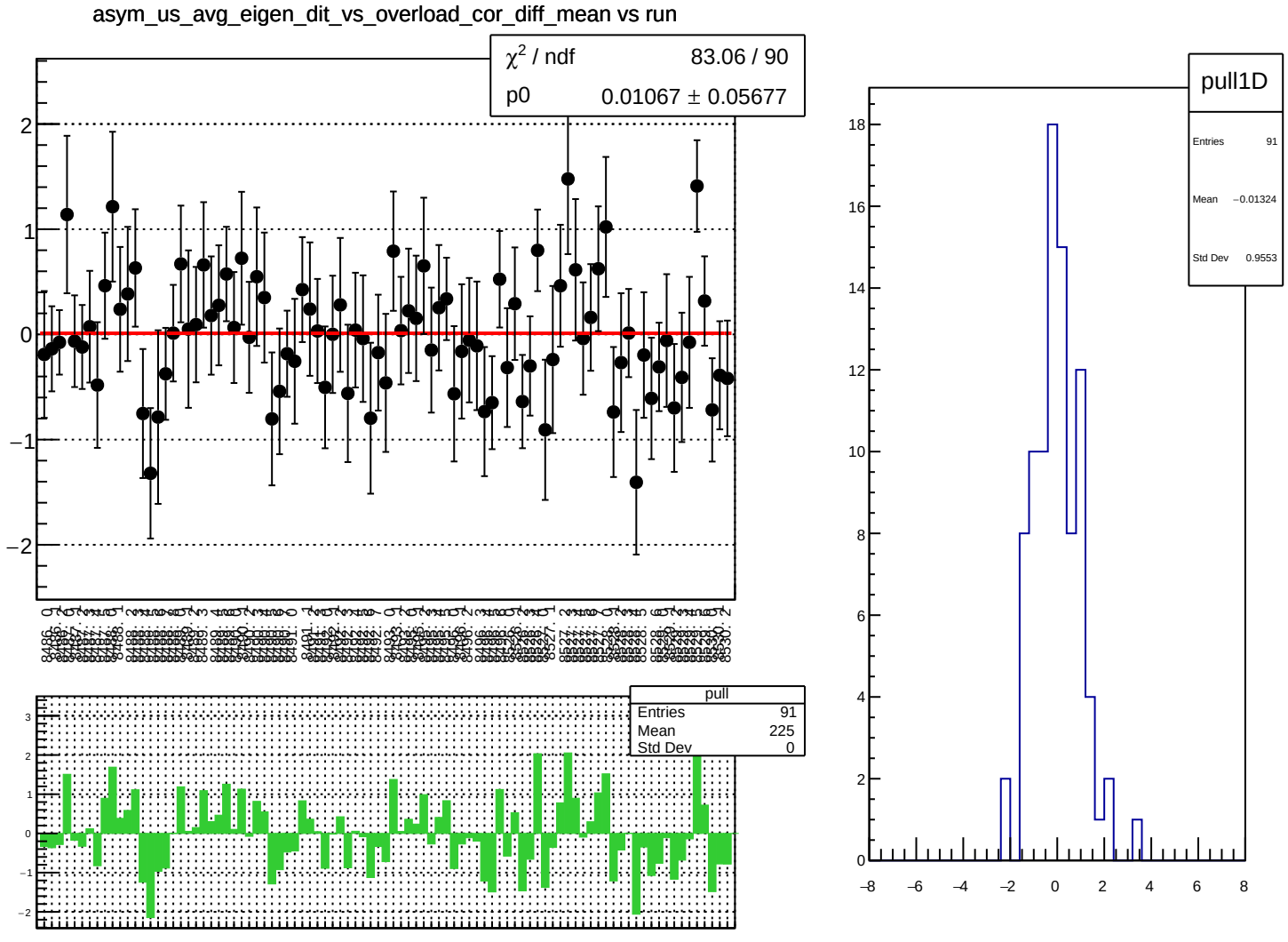

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.39 / 90
p0 0.06211 ± 0.04005
pull
Entries 91
Mean 437.4
Std Dev 0
pull1D
Entries 91
Mean −0.01007
Std Dev 0.9743

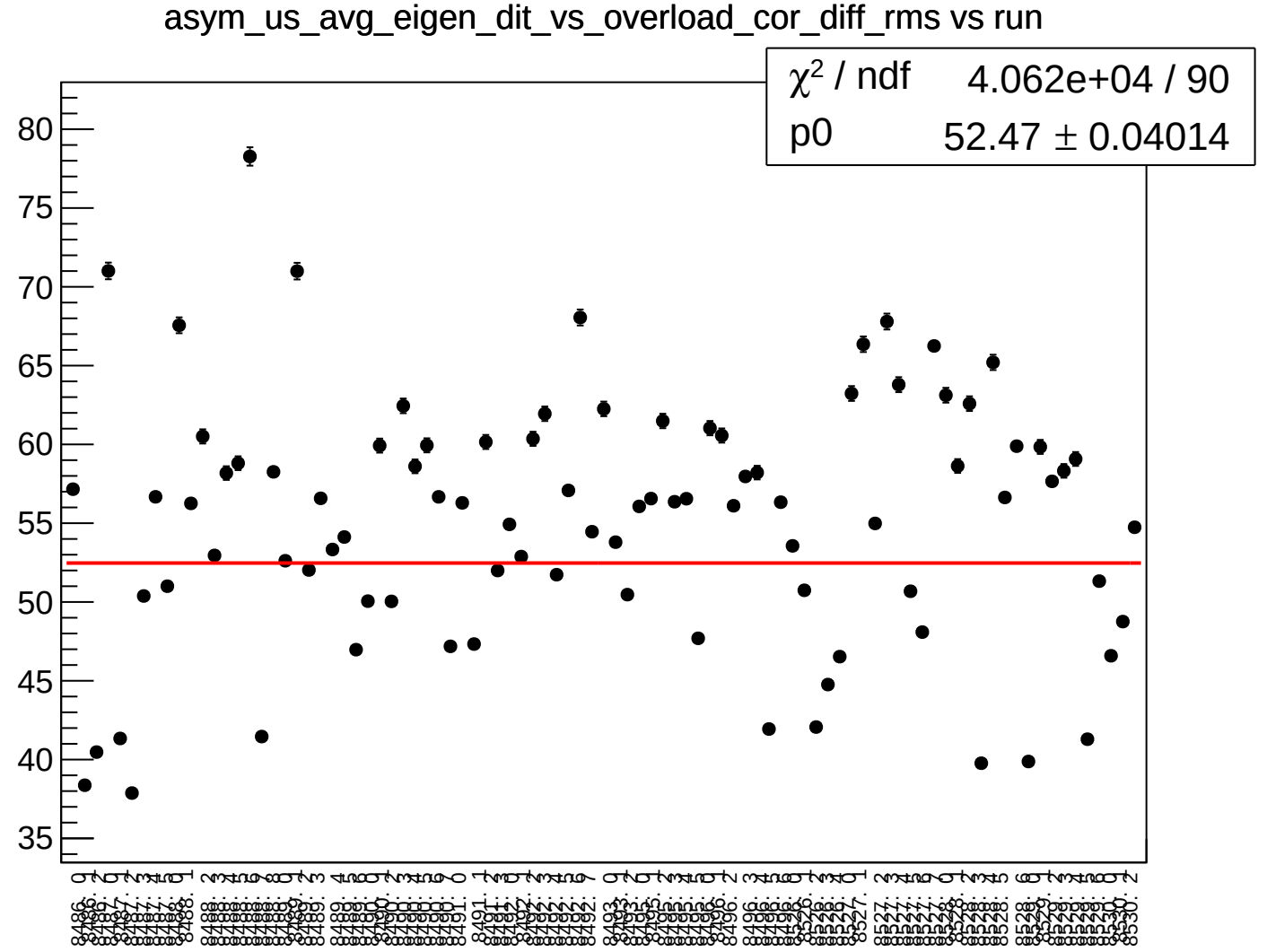

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.578e+04 / 90
p0 36.41 ± 0.02832
60
55
50
45
40
35
30
25
20
15

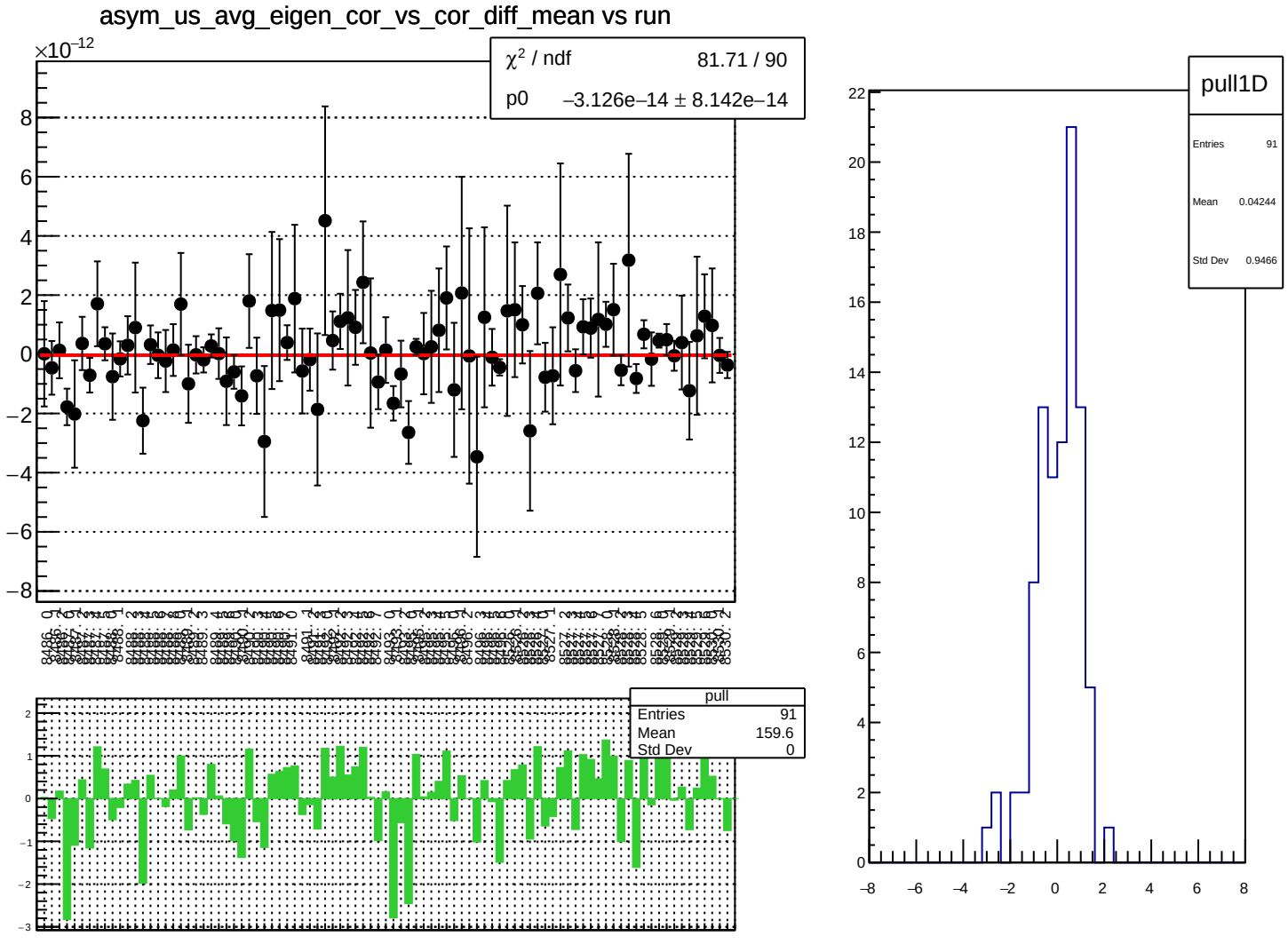

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.39 / 90
p0 0.06211 ± 0.04005
pull
Entries 91
Mean 437.4
Std Dev 0

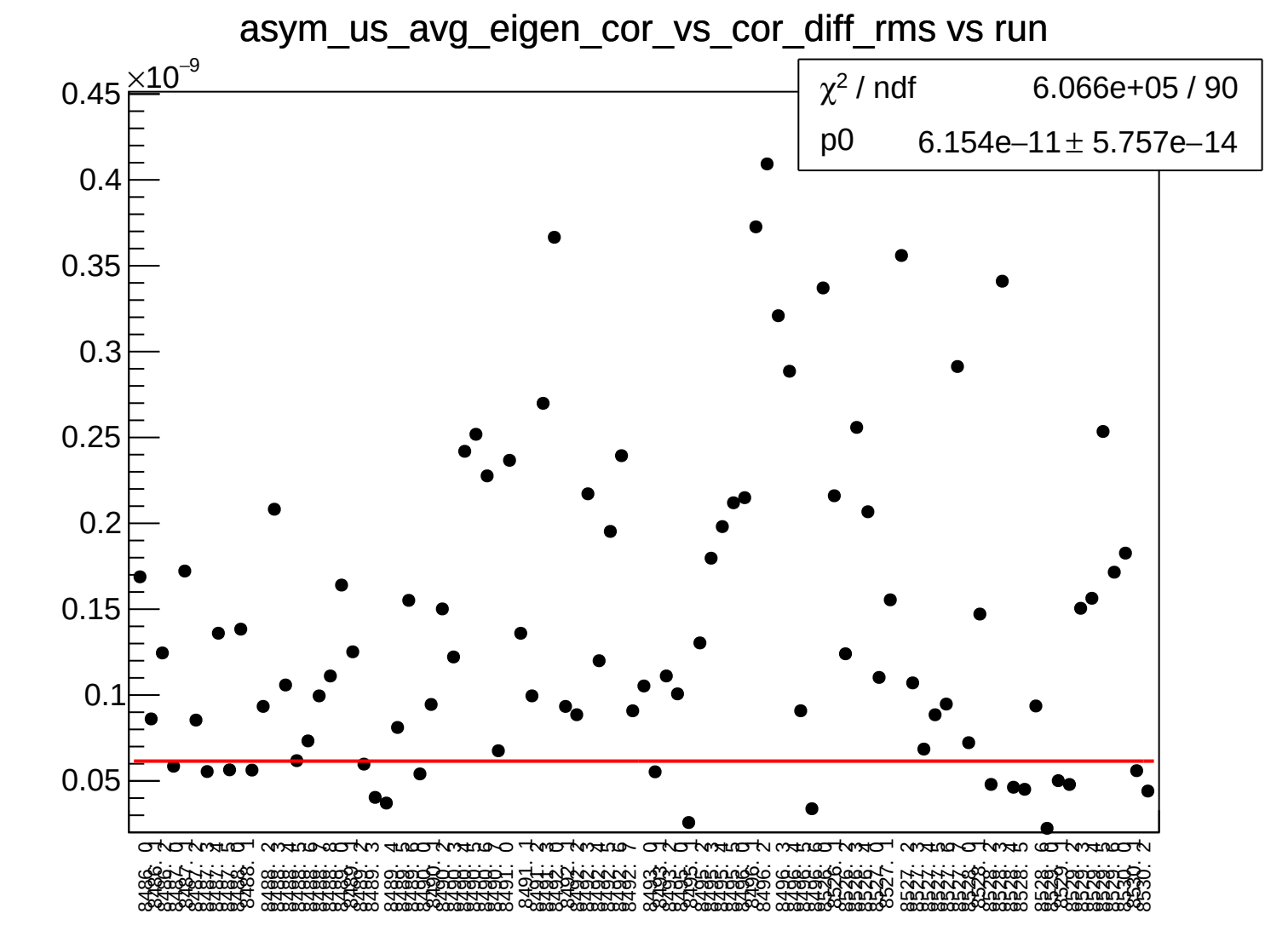

pull1D
Entries 91
Mean −0.01007
Std Dev 0.9743

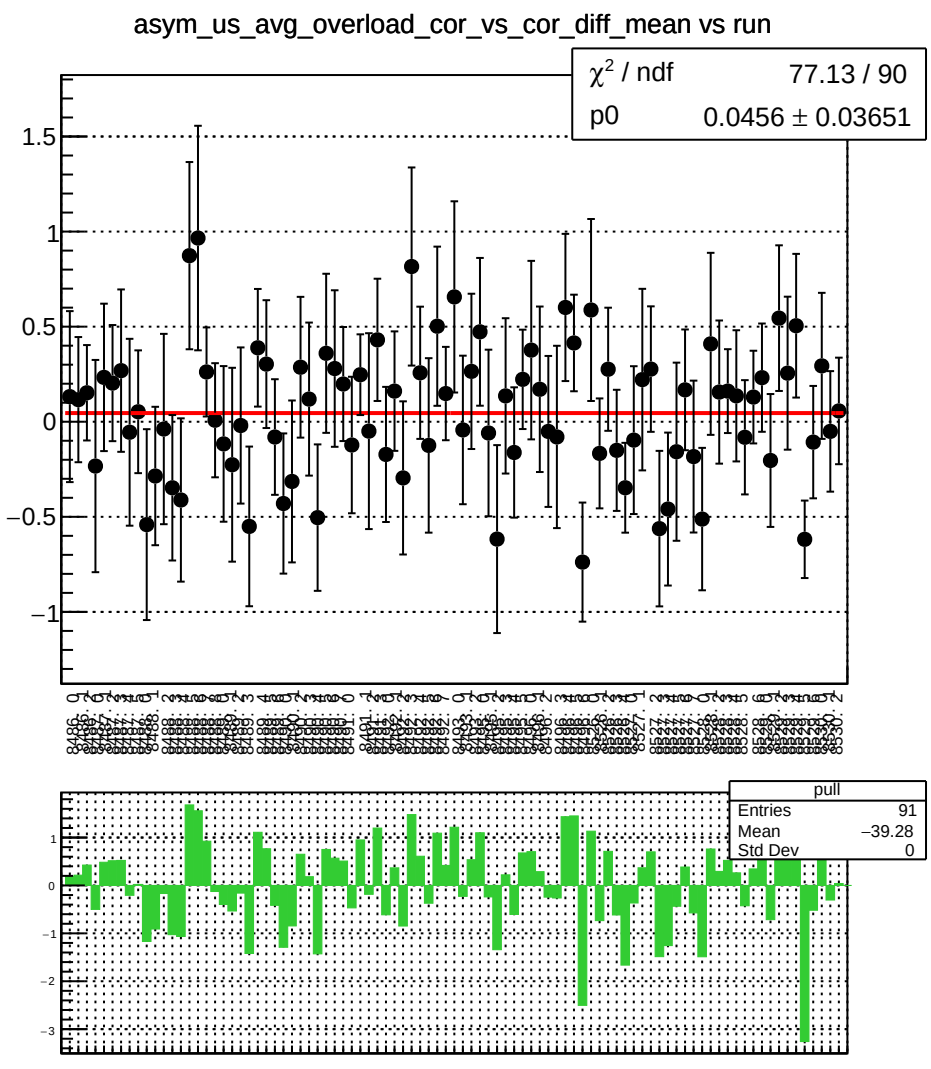

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 9.578e+04 / 90
p0 36.41 ± 0.02832
60
55
50
45
40
35
30
25
20
15

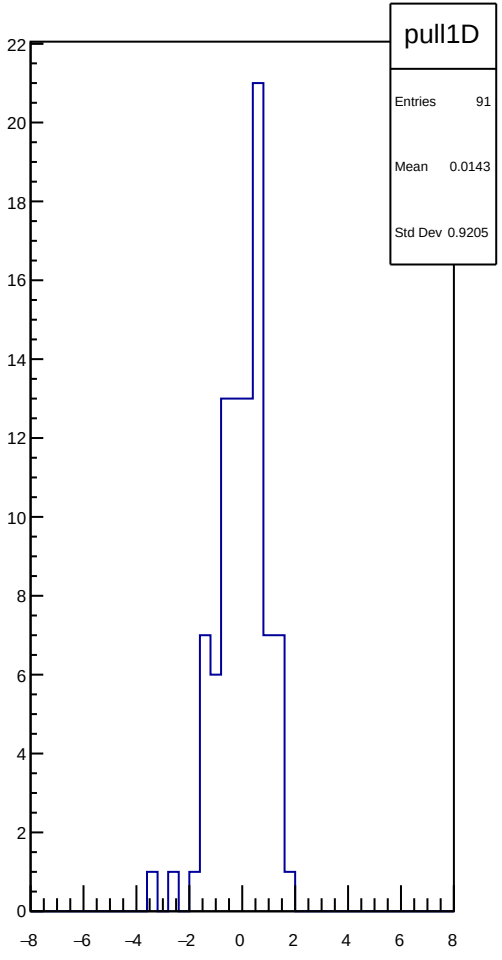

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 83.06 / 90
p0 0.01067 ± 0.05677
pull
Entries 91
Mean 225
Std Dev 0
pull1D
Entries 91
Mean −0.01324
Std Dev 0.9553

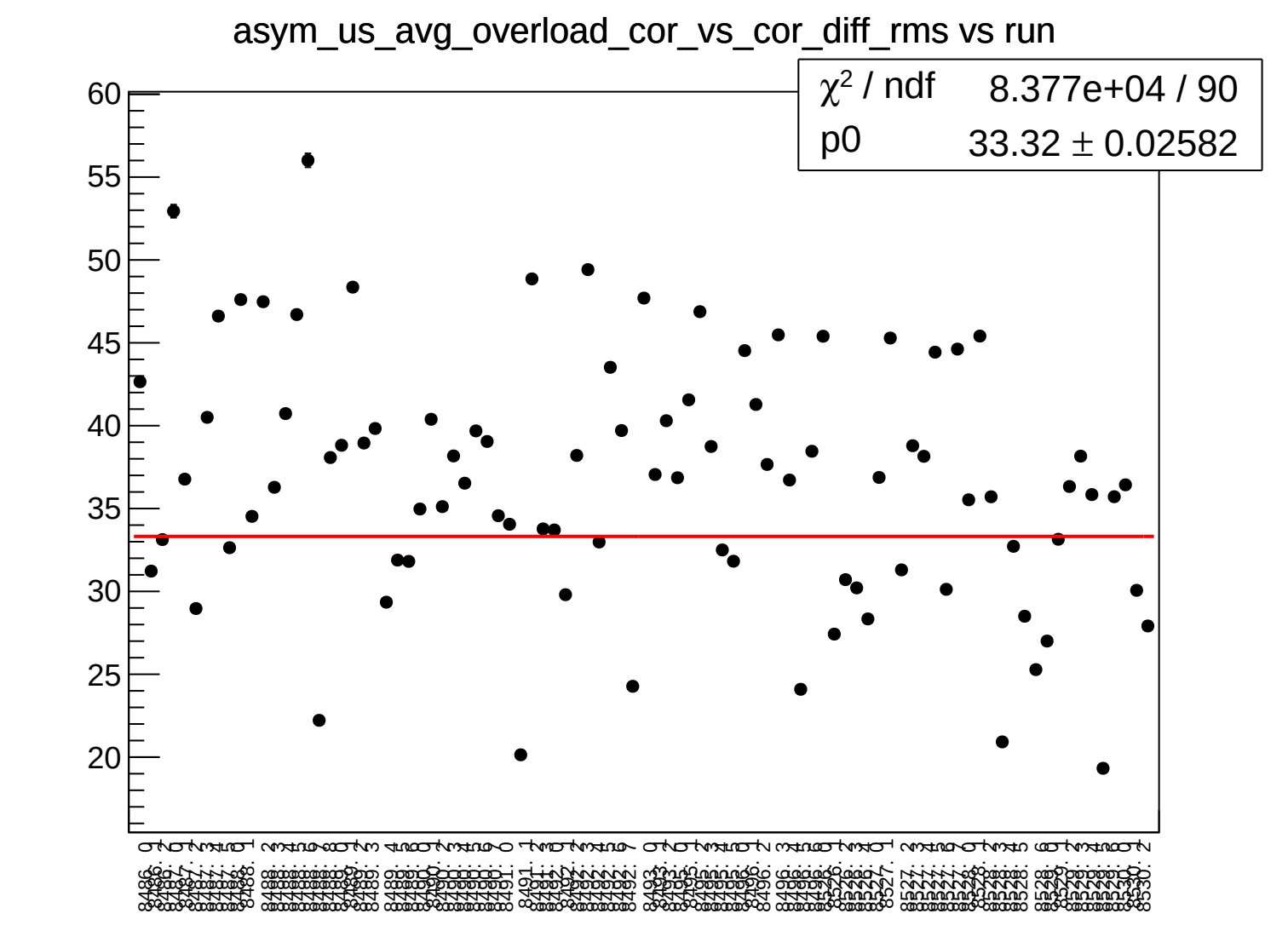

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 4.062e+04 / 90
p0 52.47 ± 0.04014
80
75
70
65
60
55
50
45
40
35

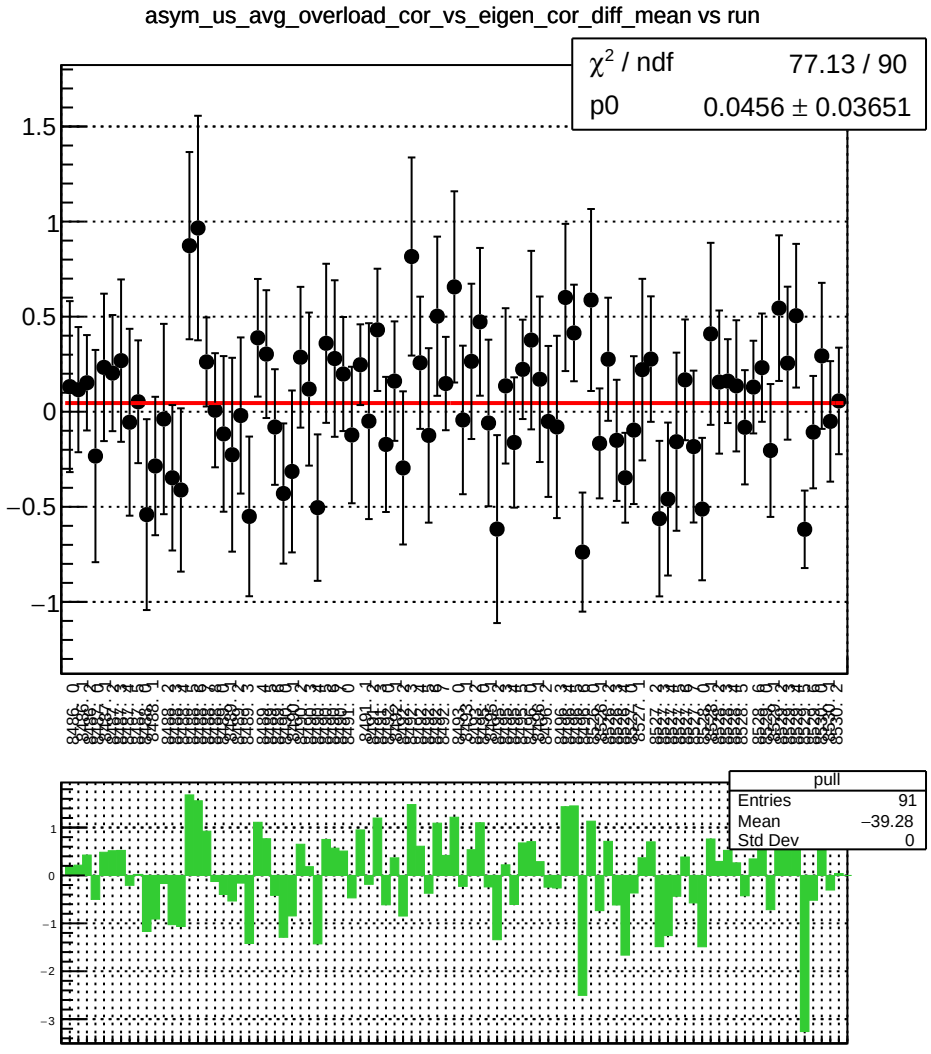

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.71 / 90
p0 −3.126e−14 ± 8.142e−14
pull
Entries 91
Mean 159.6
Std Dev 0
pull1D
Entries 91
Mean 0.04244
Std Dev 0.9466

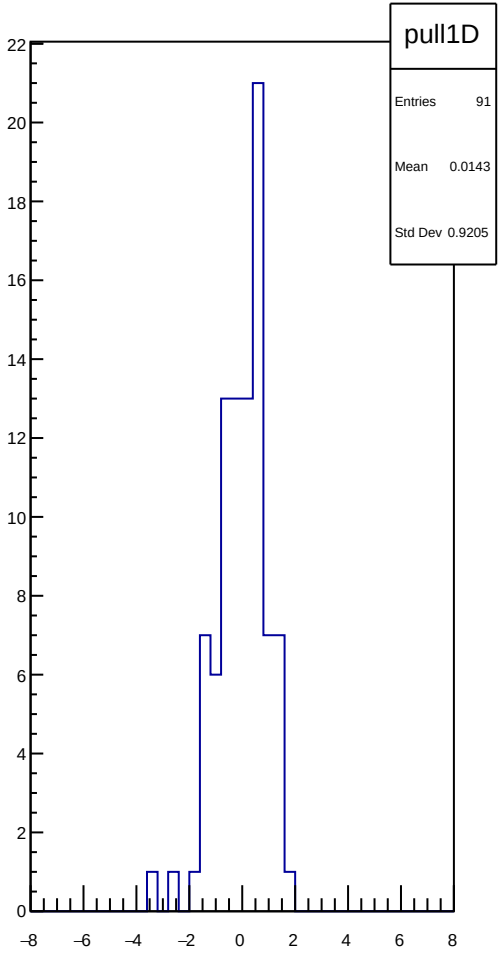

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.066e+05 / 90
p0 6.154e−11 ± 5.757e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

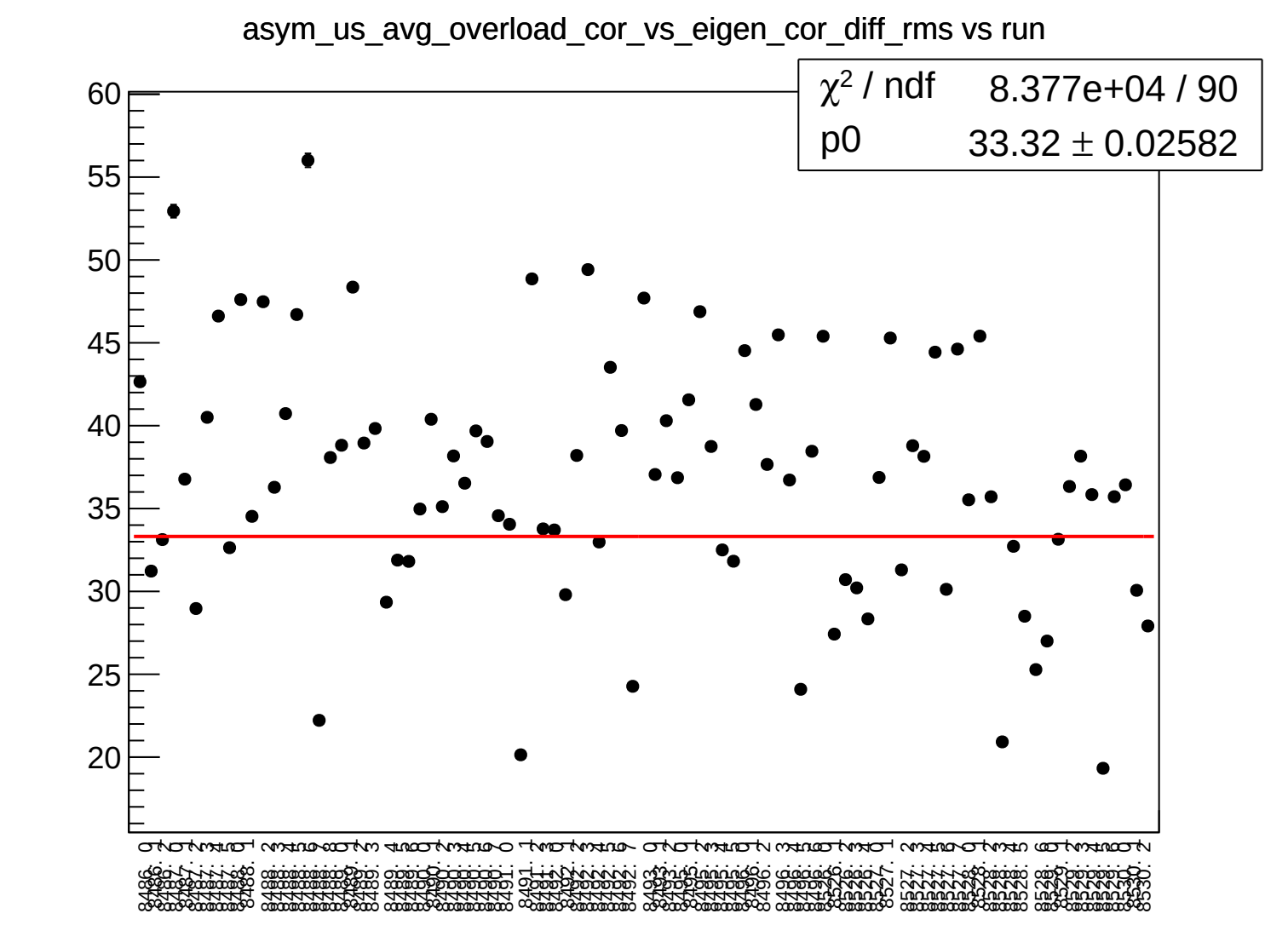

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 77.13 / 90
p0 0.0456 ± 0.03651
pull
Entries 91
Mean −39.28
Std Dev 0

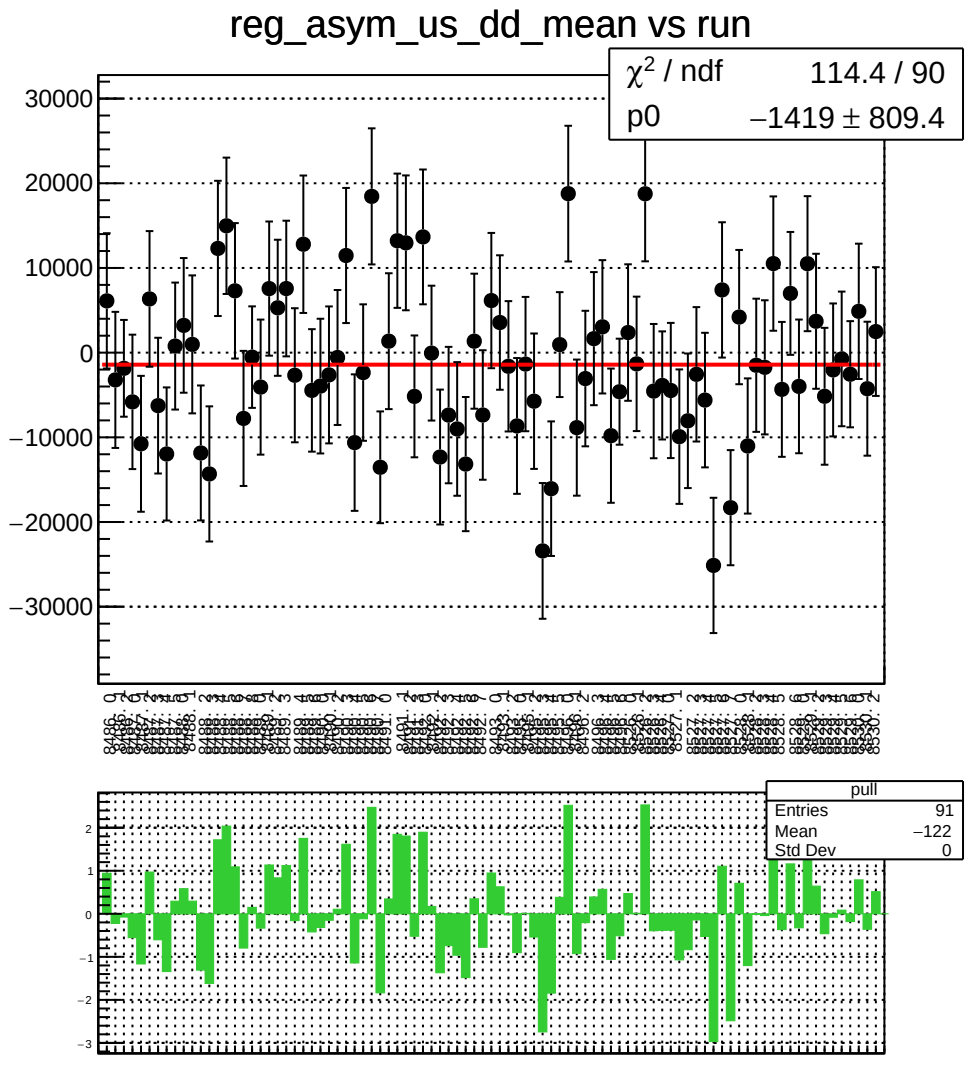

pull1D
Entries 91
Mean 0.0143
Std Dev 0.9205

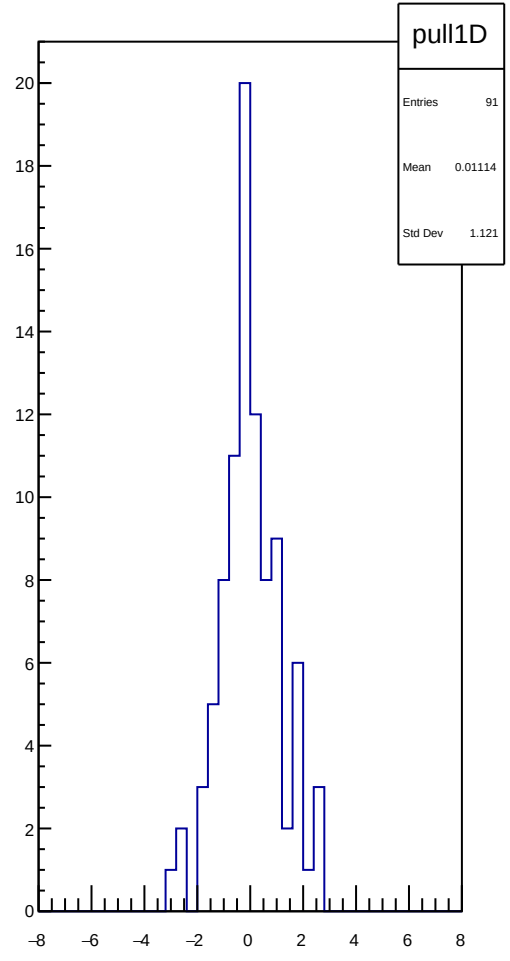

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 8.377e+04 / 90
p0 33.32 ± 0.02582
60
55
50
45
40
35
30
25
20

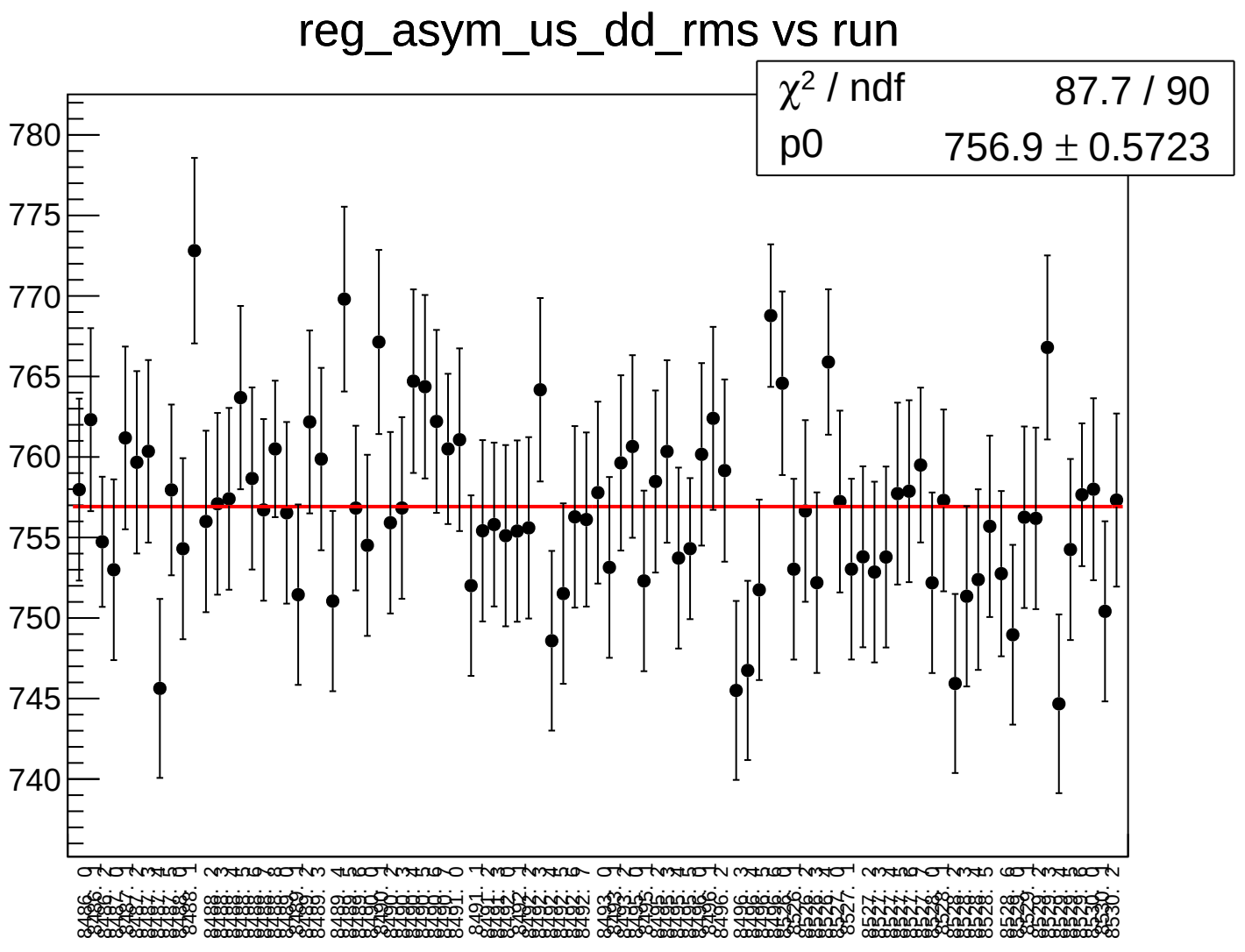

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.13 / 90
p0 0.0456 ± 0.03651
pull
Entries 91
Mean −39.28
Std Dev 0

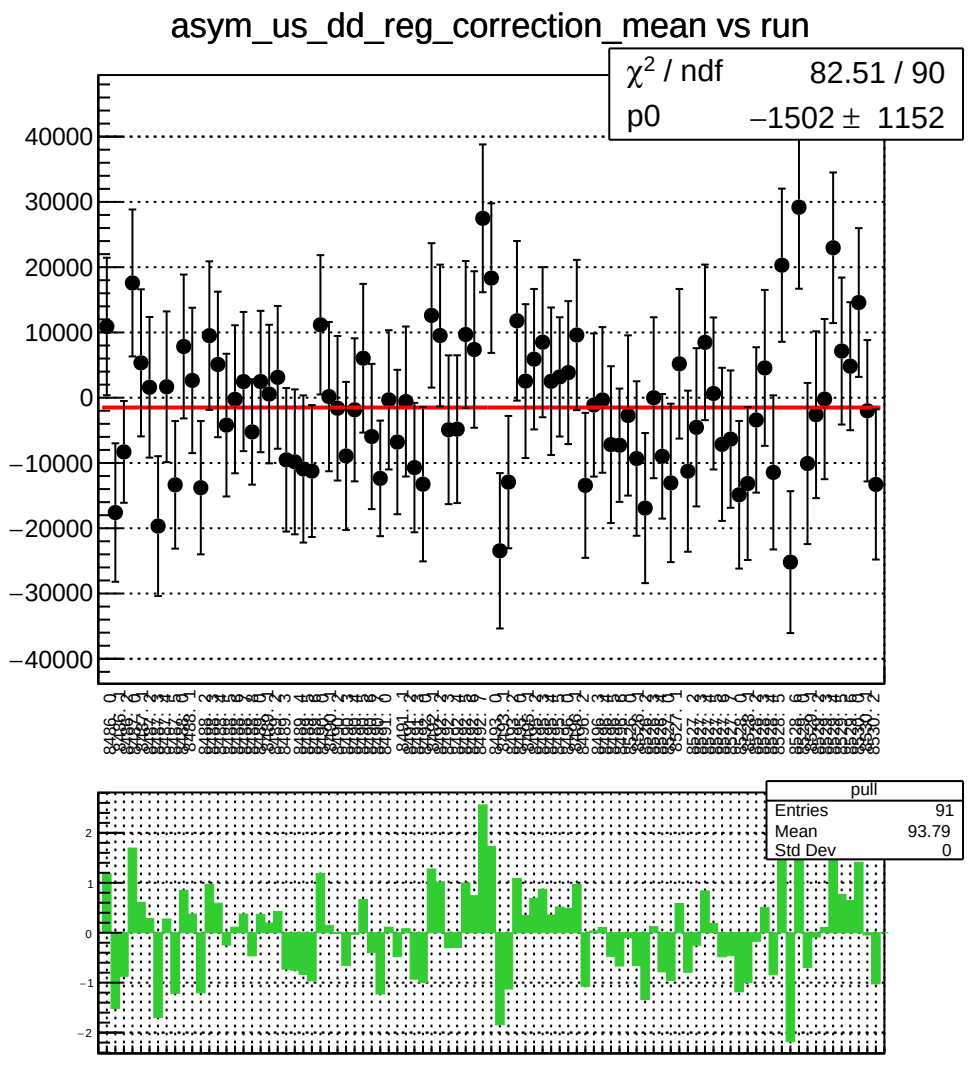

pull1D
Entries 91
Mean 0.0143
Std Dev 0.9205

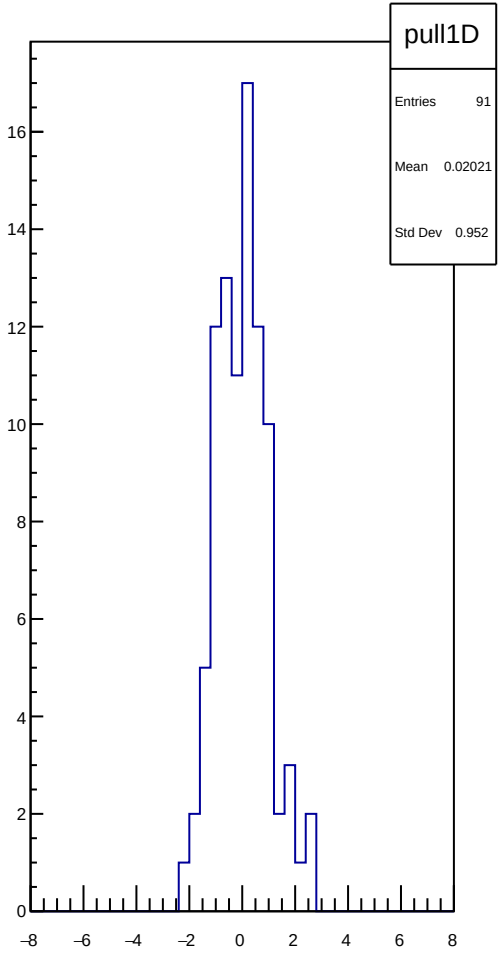

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.377e+04 / 90
p0 33.32 ± 0.02582
60
55
50
45
40
35
30
25
20

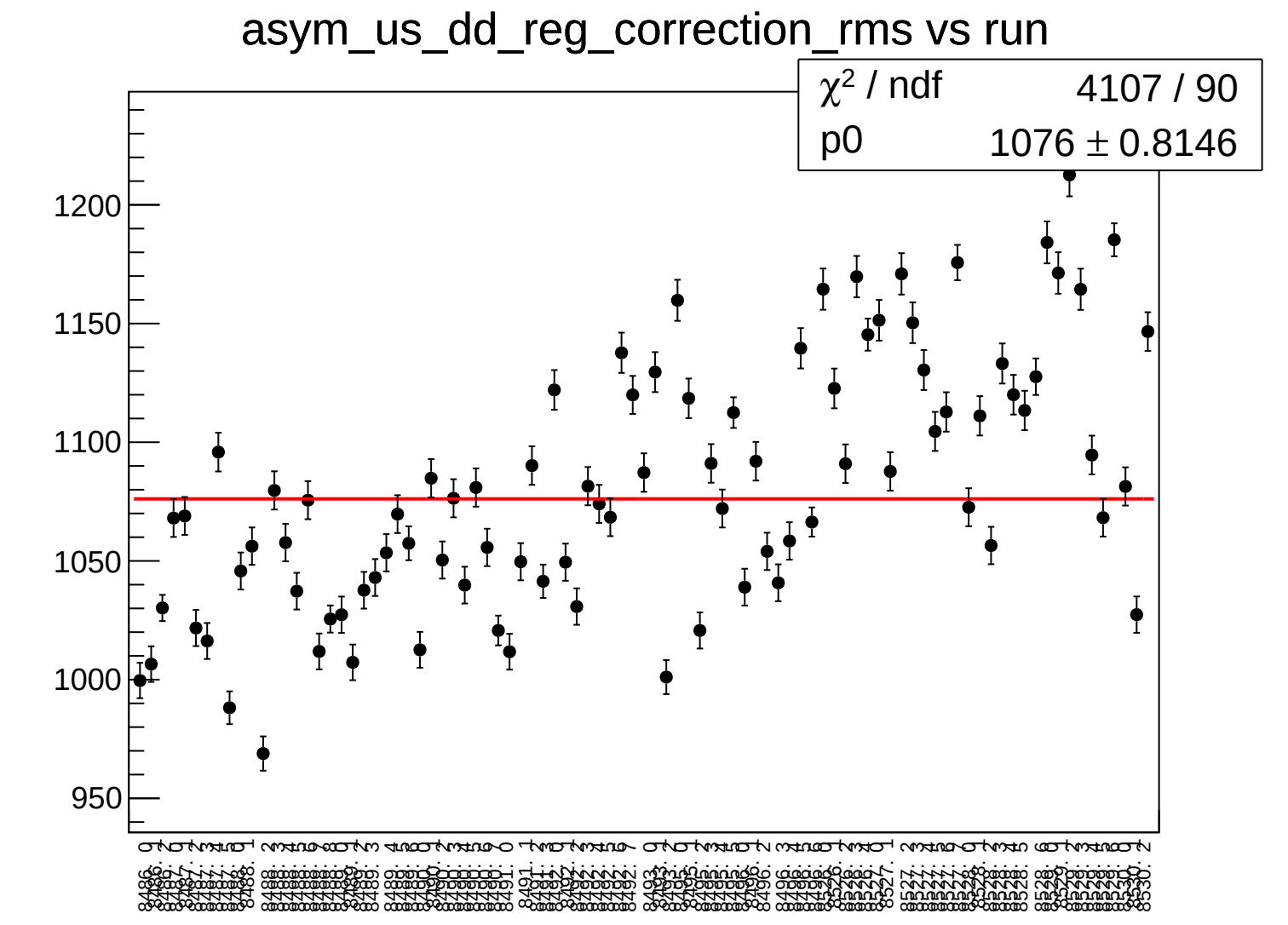

reg_asym_us_dd_mean vs run
χ² / ndf 114.4 / 90
p0 −1419 ± 809.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −122
Std Dev 0
2
1
0
−1
−2
−3

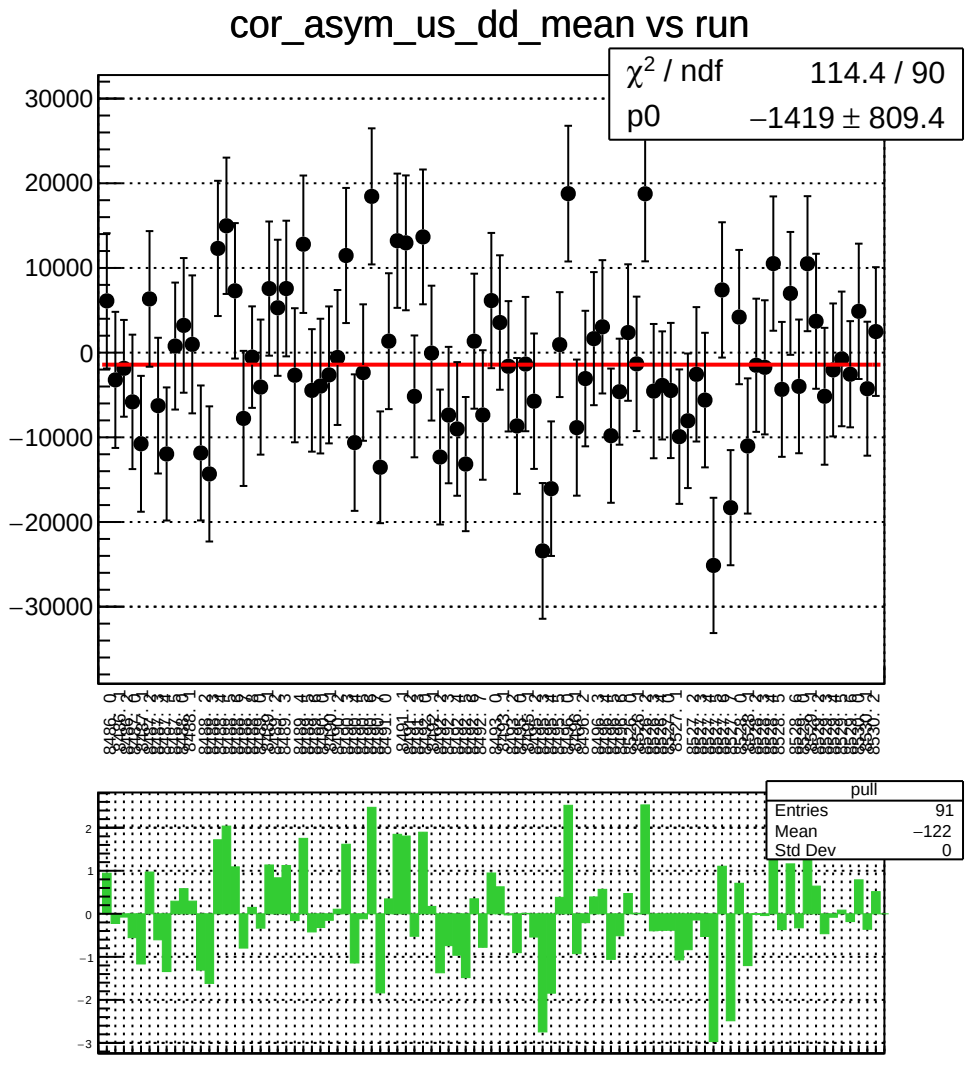

pull1D
Entries 91
Mean 0.01114
Std Dev 1.121
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

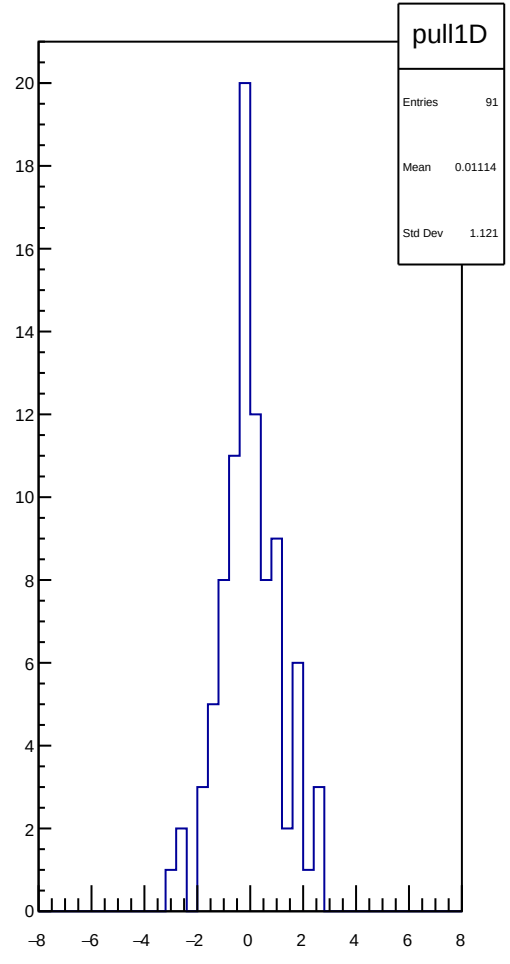

reg_asym_us_dd_rms vs run
χ² / ndf 87.7 / 90
p0 756.9 ± 0.5723
780
775
770
765
760
755
750
745
740

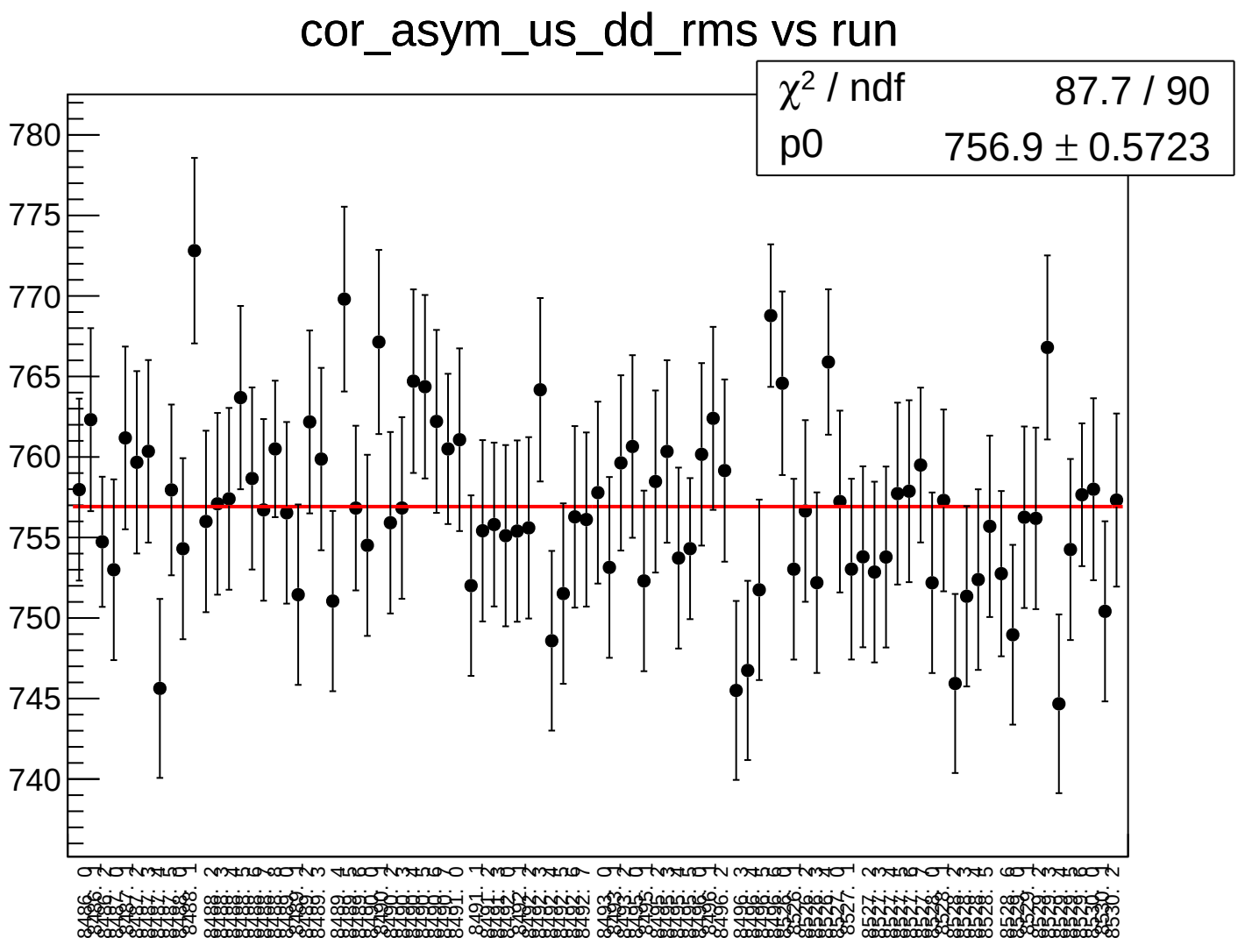

asym_us_dd_reg_correction_mean vs run
χ² / ndf 82.51 / 90
p0 −1502 ± 1152
pull
Entries 91
Mean 93.79
Std Dev 0

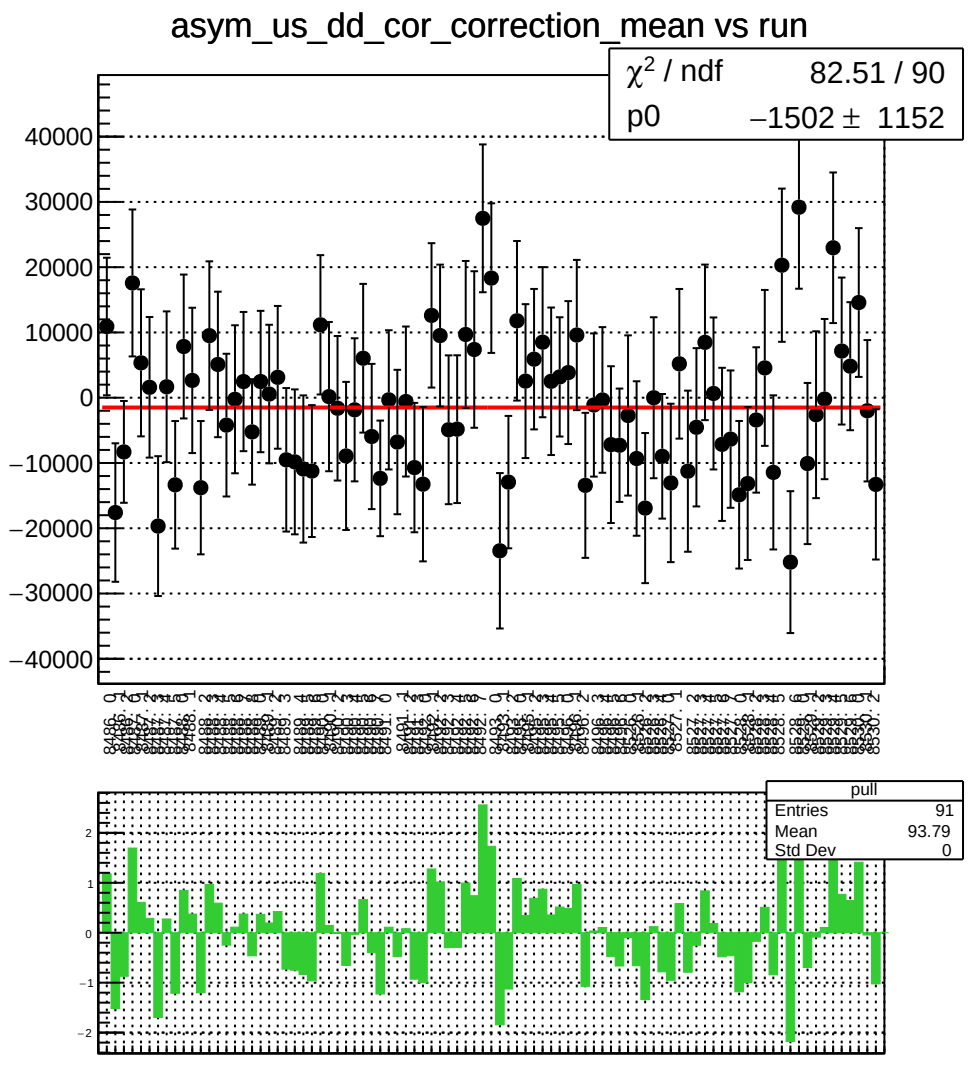

pull1D
Entries 91
Mean 0.02021
Std Dev 0.952

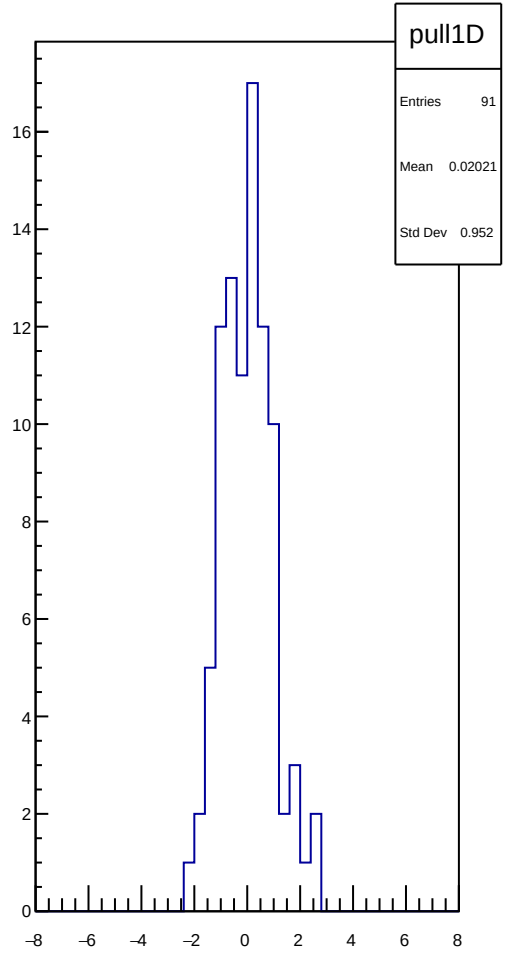

asym_us_dd_reg_correction_rms vs run
χ² / ndf 4107 / 90
p0 1076 ± 0.8146
1200
1150
1100
1050
1000
950

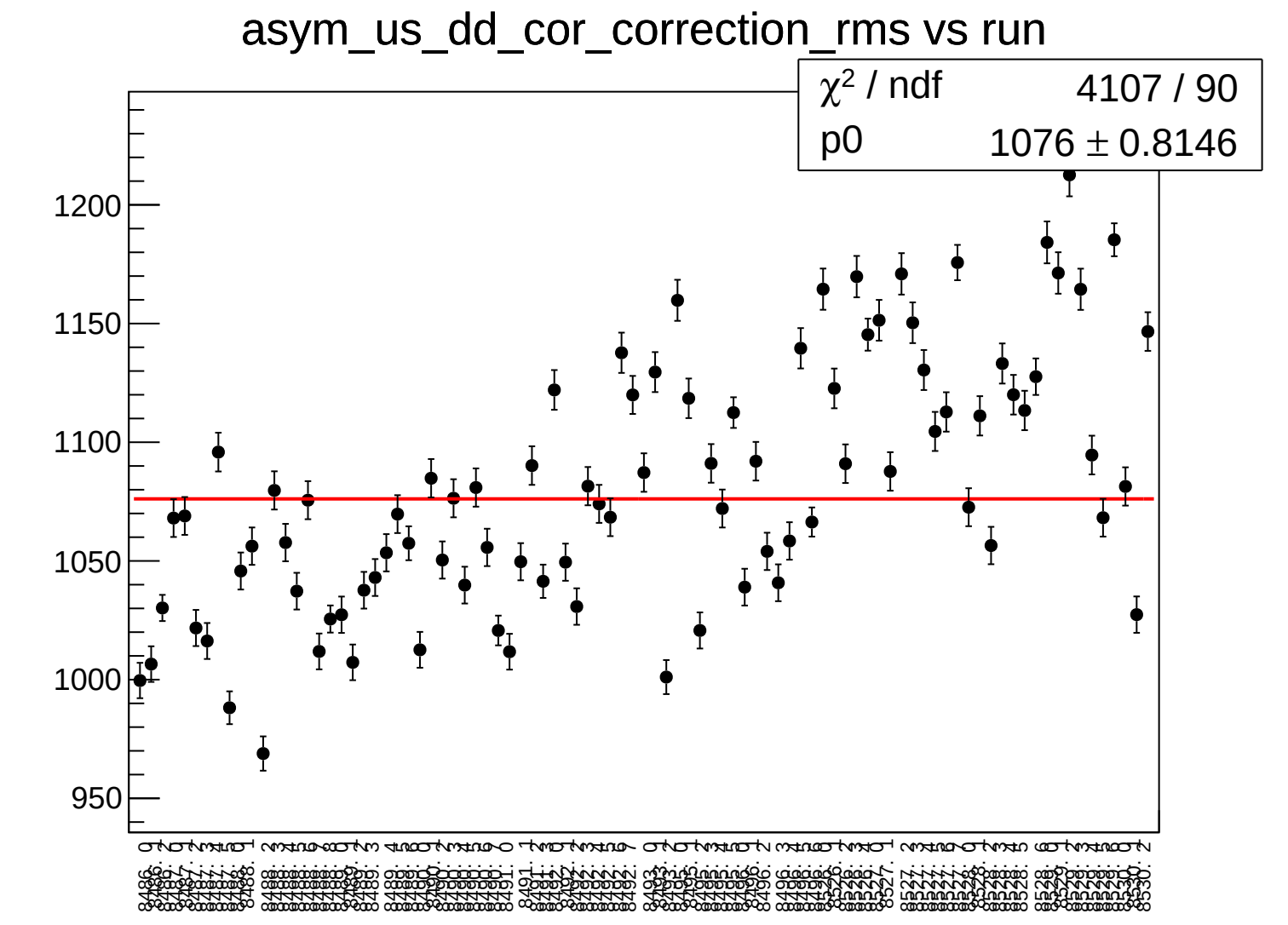

cor_asym_us_dd_mean vs run
χ² / ndf 114.4 / 90
p0 −1419 ± 809.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −122
Std Dev 0
2
1
0
−1
−2
−3

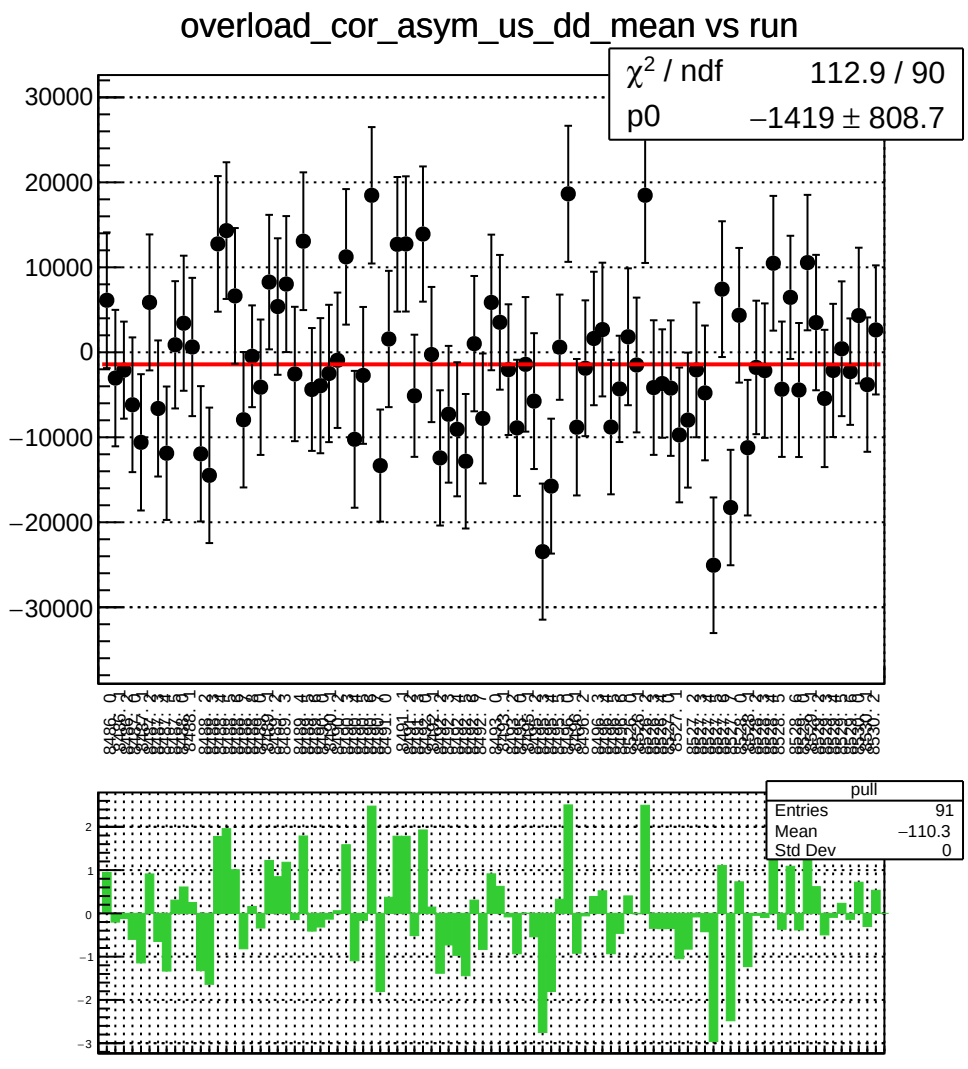

pull1D
Entries 91
Mean 0.01114
Std Dev 1.121
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

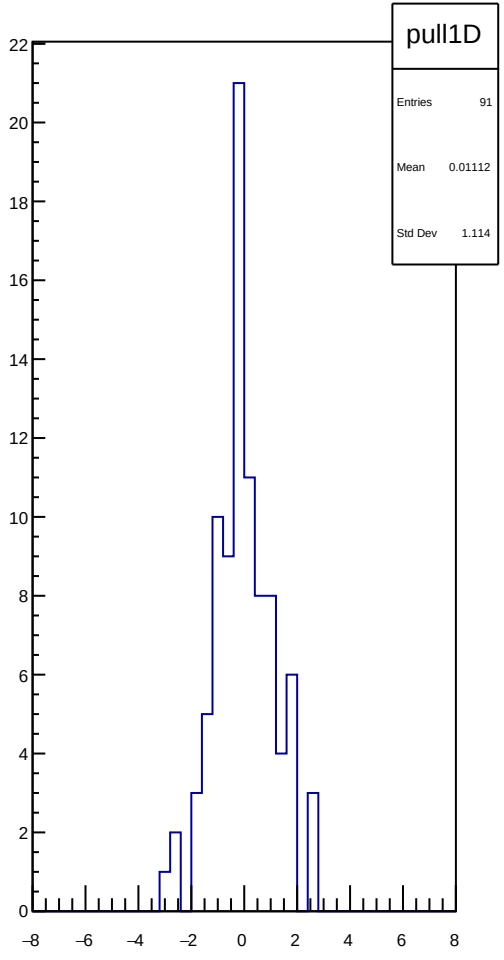

cor_asym_us_dd_rms vs run
χ² / ndf 87.7 / 90
p0 756.9 ± 0.5723
780
775
770
765
760
755
750
745
740

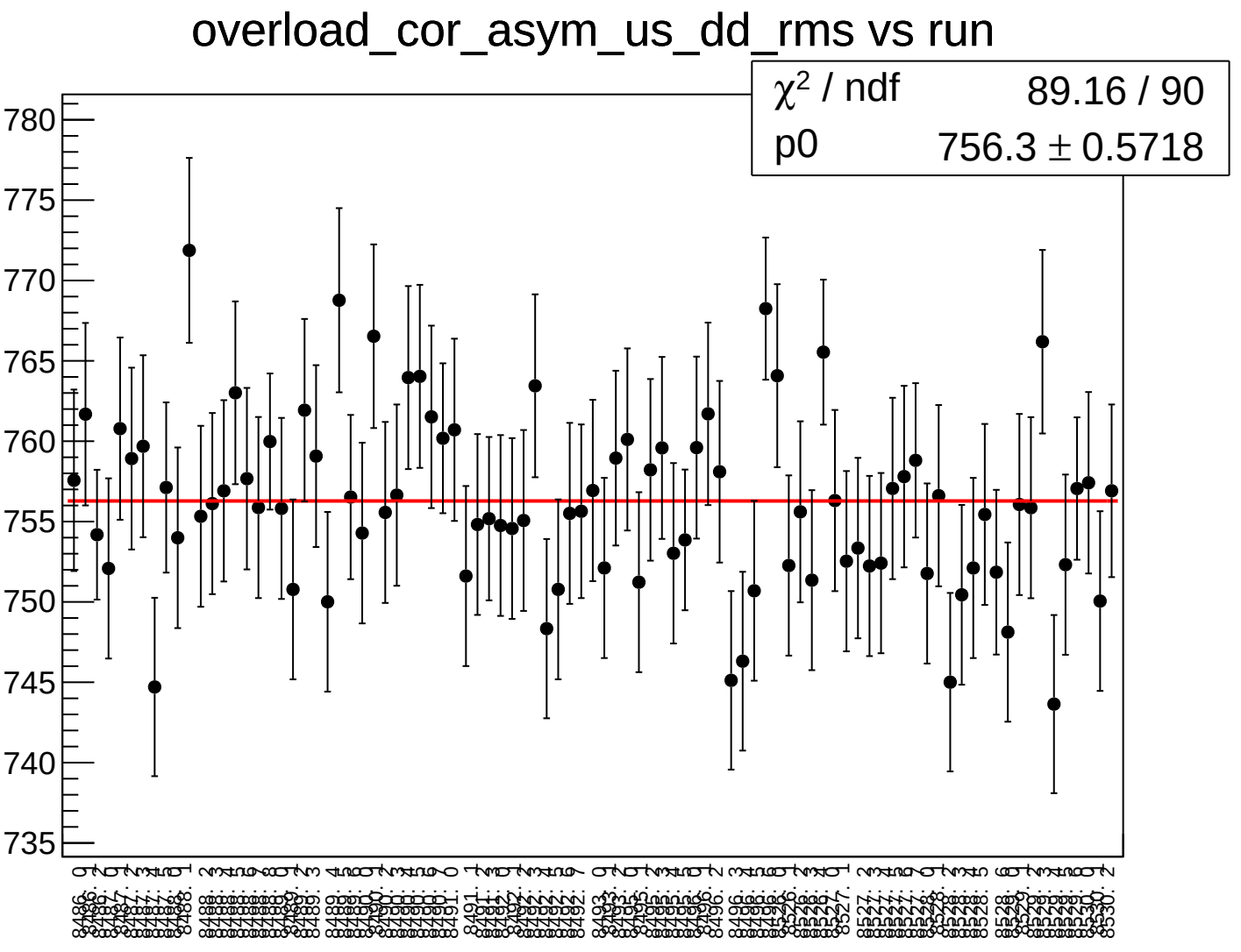

asym_us_dd_cor_correction_mean vs run
χ² / ndf 82.51 / 90
p0 −1502 ± 1152
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean 93.79
Std Dev 0
2
1
0
−1
−2

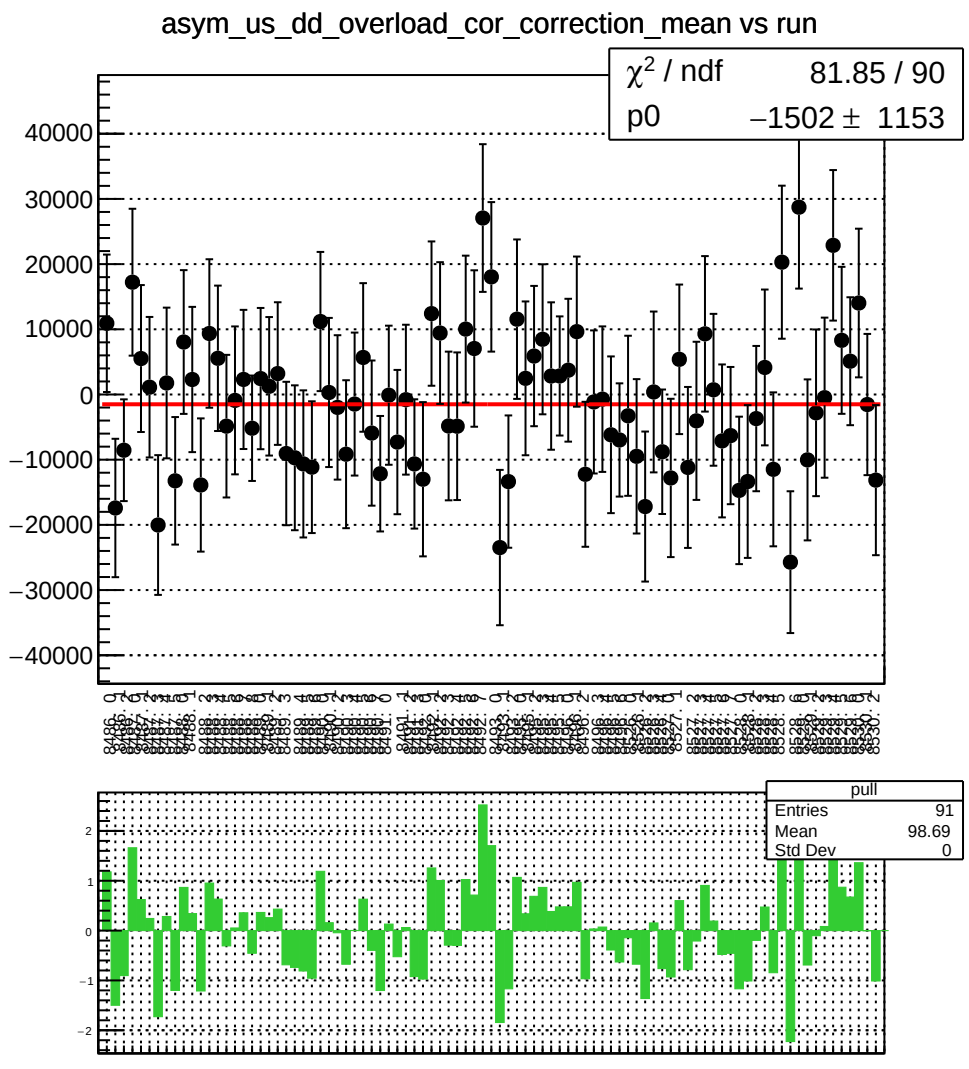

pull1D
Entries 91
Mean 0.02021
Std Dev 0.952
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

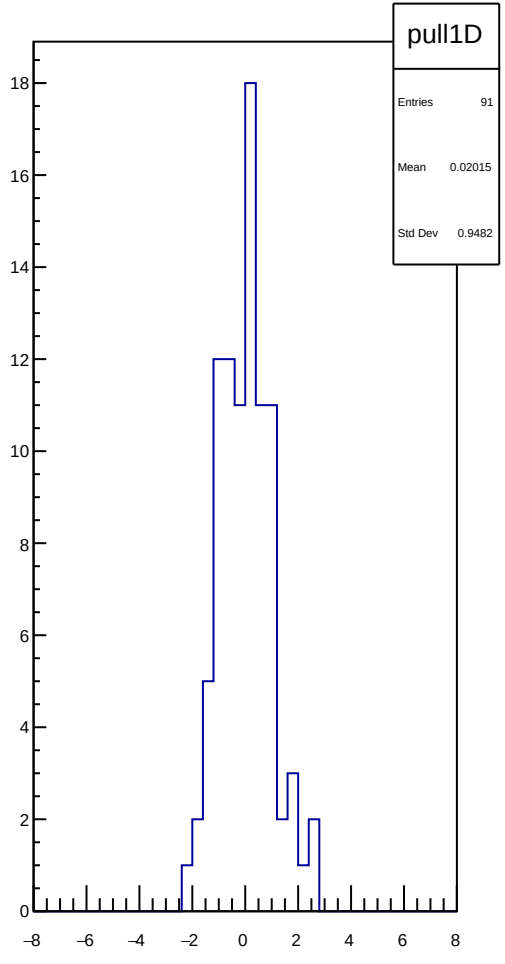

asym_us_dd_cor_correction_rms vs run
χ² / ndf 4107 / 90
p0 1076 ± 0.8146
1200
1150
1100
1050
1000
950

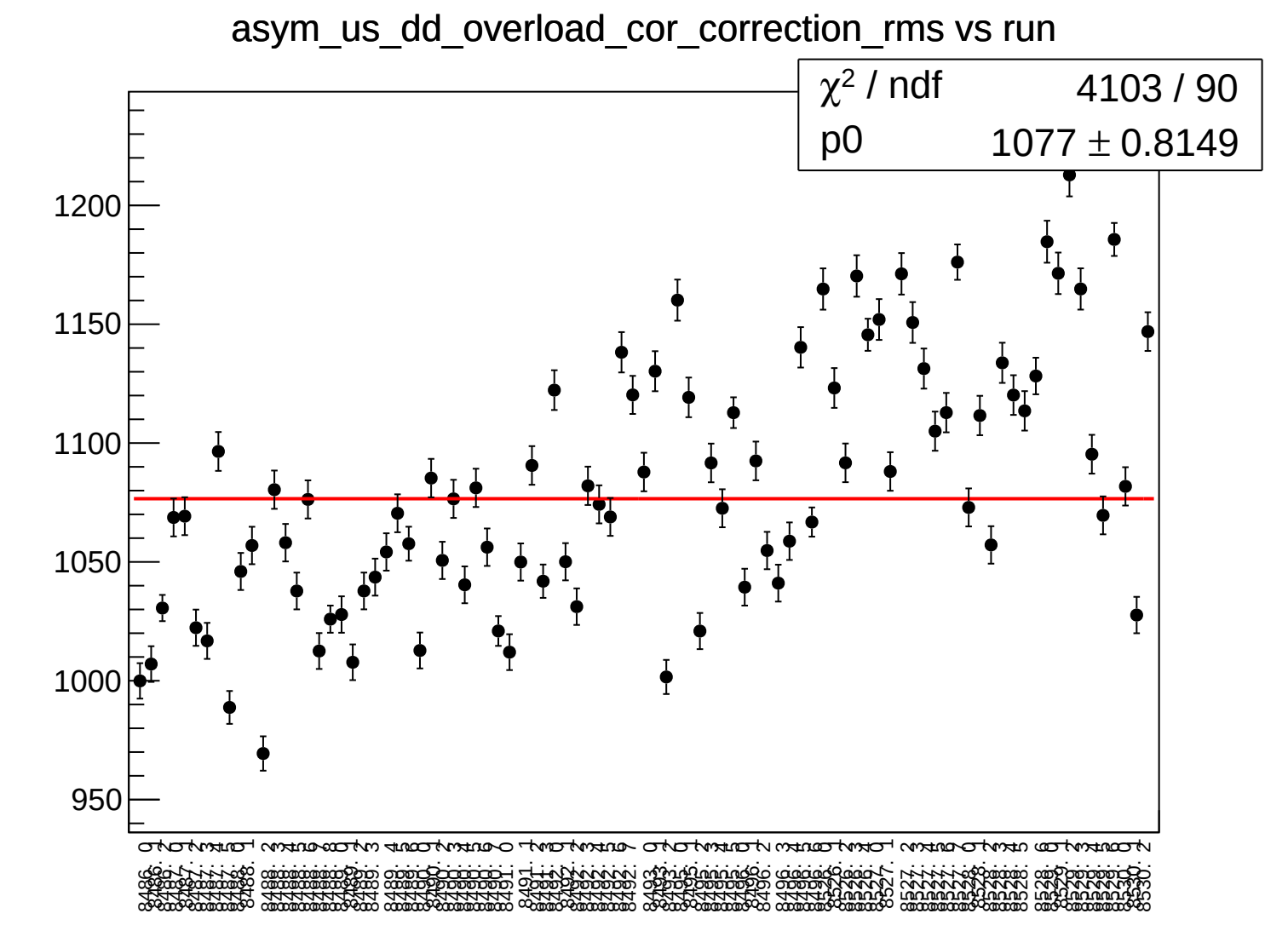

overload_cor_asym_us_dd_mean vs run
χ² / ndf 112.9 / 90
p0 −1419 ± 808.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −110.3
Std Dev 0
2
1
0
−1
−2
−3

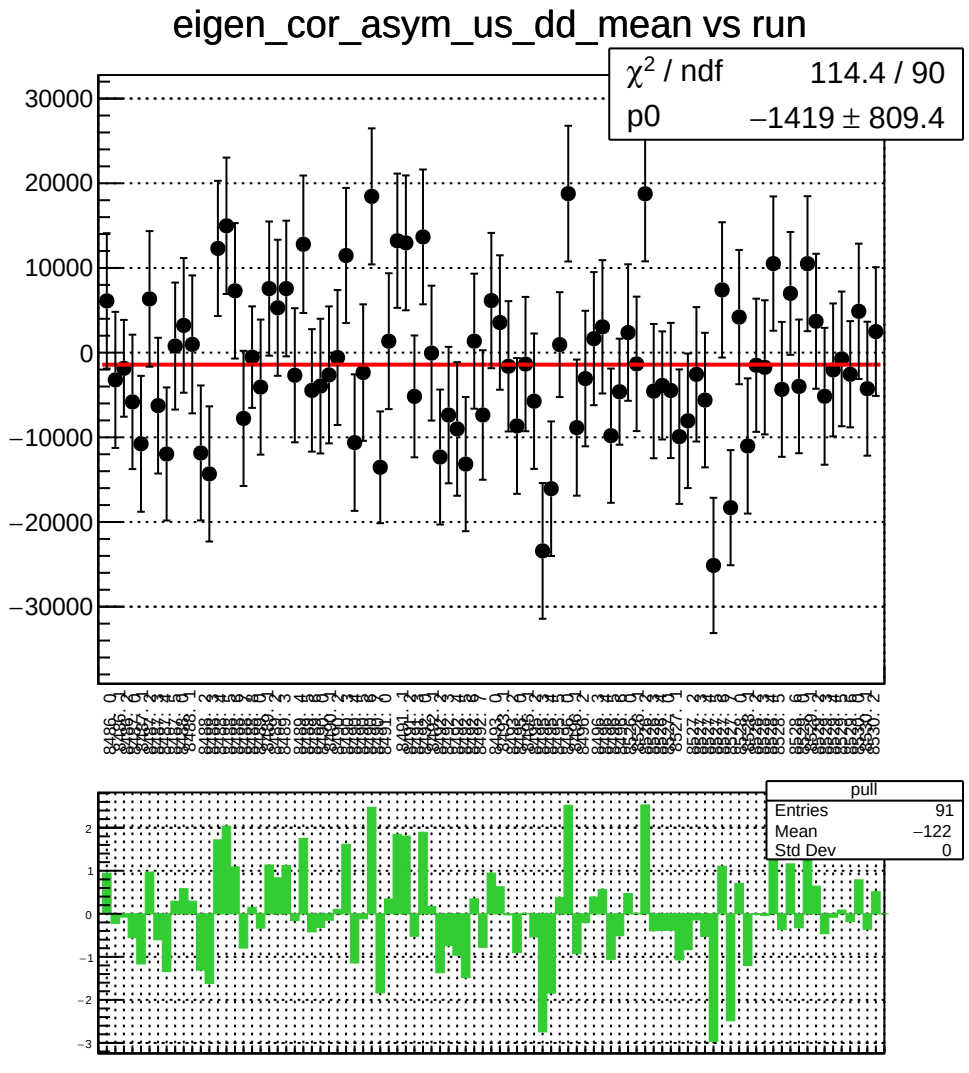

pull1D
Entries 91
Mean 0.01112
Std Dev 1.114
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

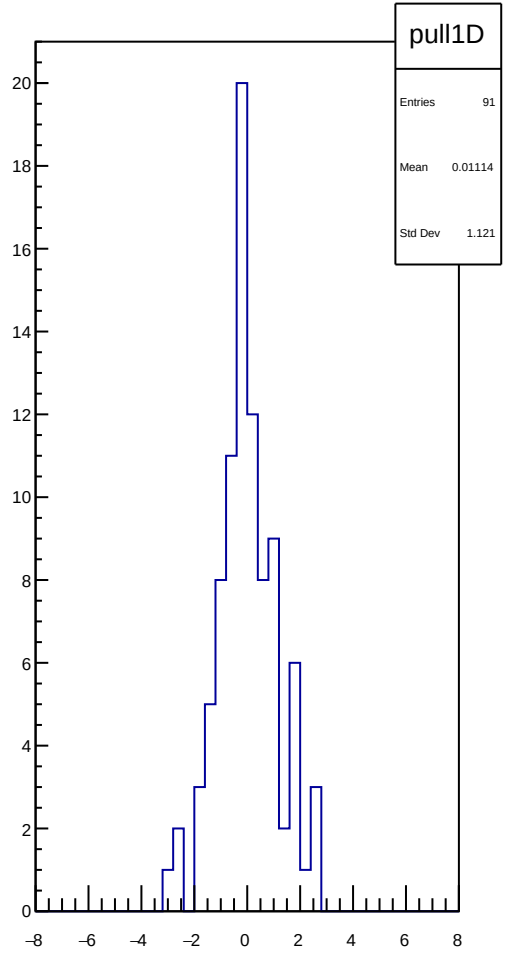

overload_cor_asym_us_dd_rms vs run
χ² / ndf 89.16 / 90
p0 756.3 ± 0.5718
780
775
770
765
760
755
750
745
740
735

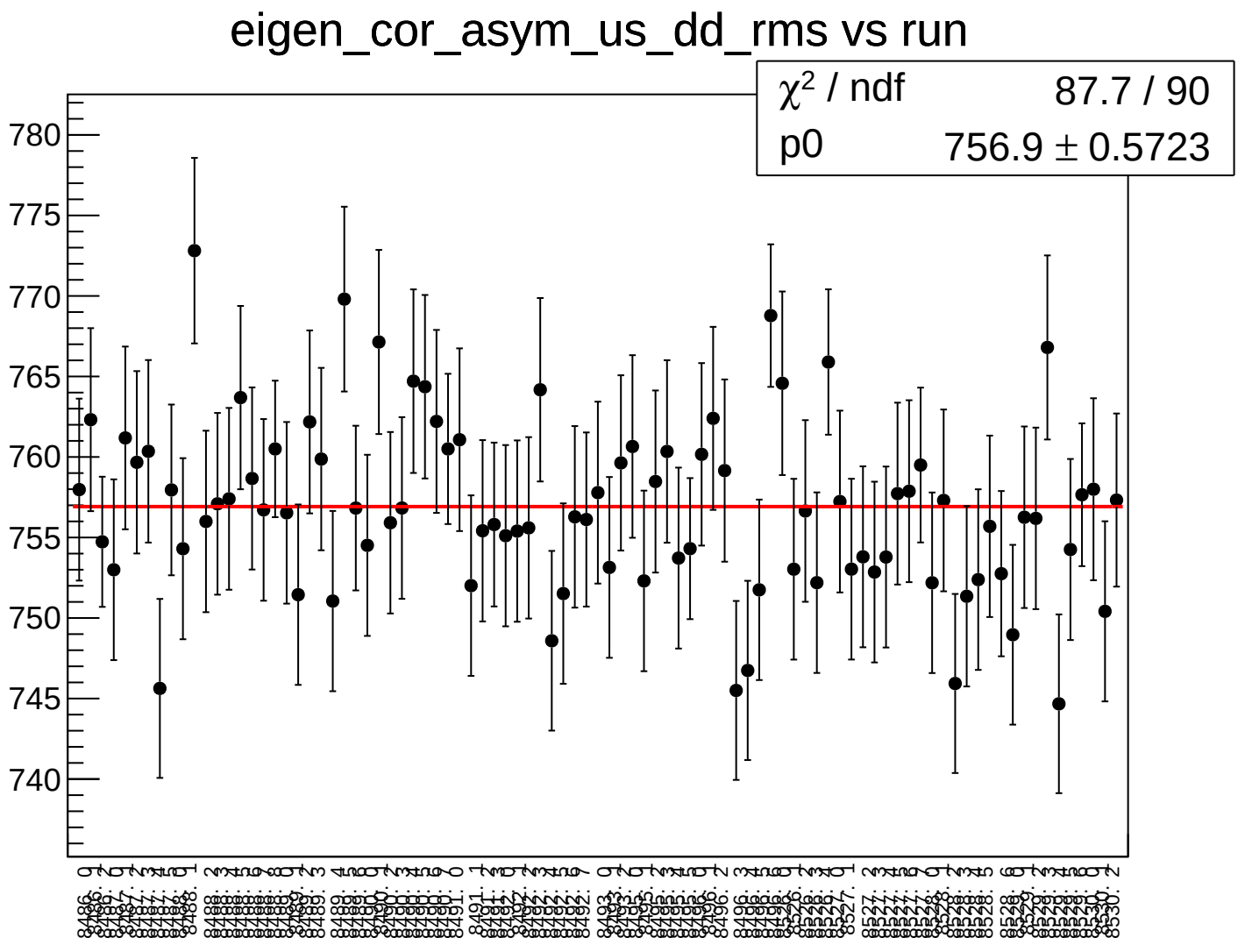

asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 81.85 / 90
p0 −1502 ± 1153
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean 98.69
Std Dev 0
2
1
0
−1
−2

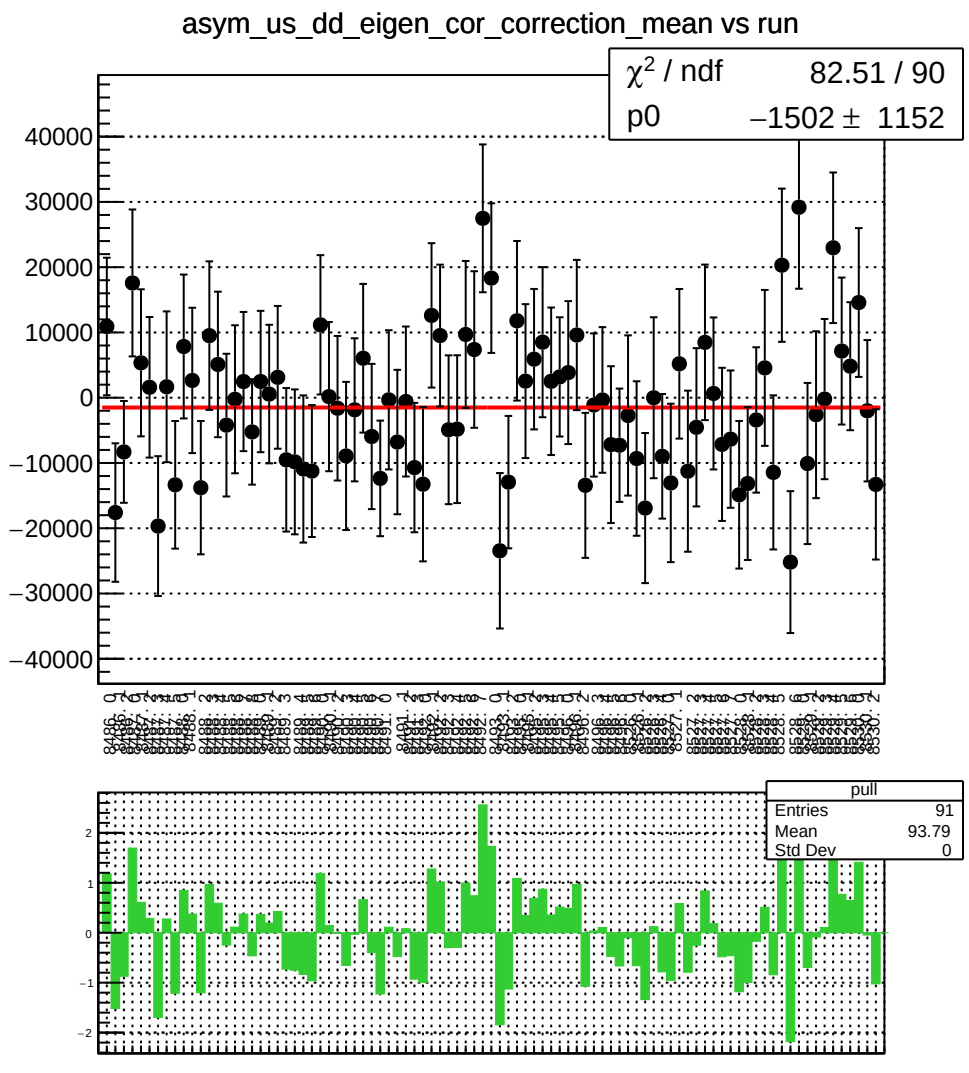

pull1D
Entries 91
Mean 0.02015
Std Dev 0.9482
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

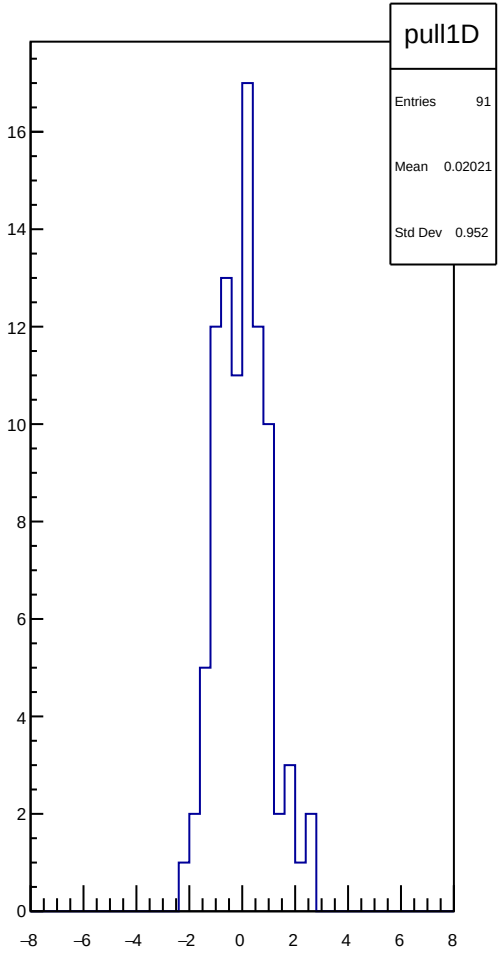

asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 4103 / 90
p0 1077 ± 0.8149
1200
1150
1100
1050
1000
950

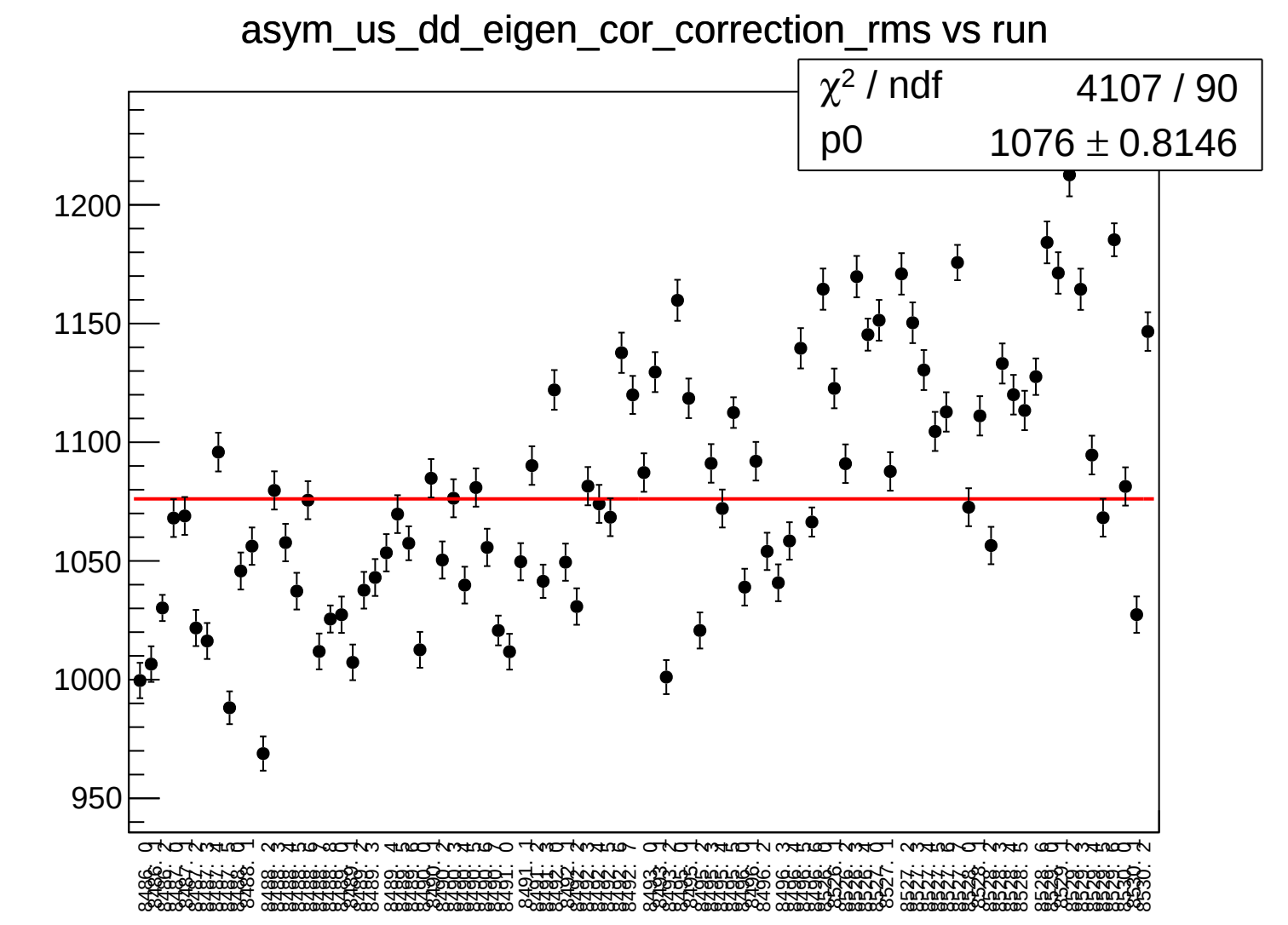

eigen_cor_asym_us_dd_mean vs run
χ² / ndf 114.4 / 90
p0 −1419 ± 809.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −122
Std Dev 0
2
1
0
−1
−2
−3

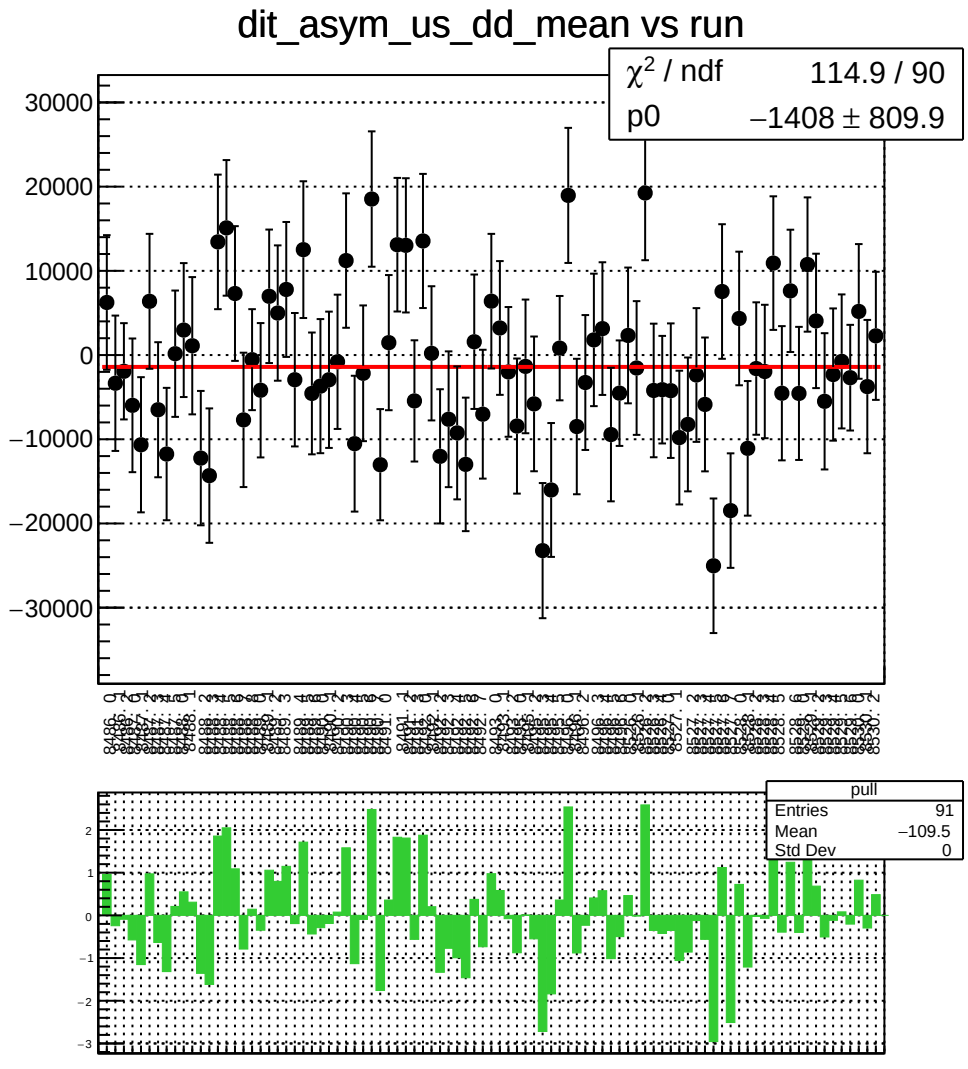

pull1D
Entries 91
Mean 0.01114
Std Dev 1.121
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

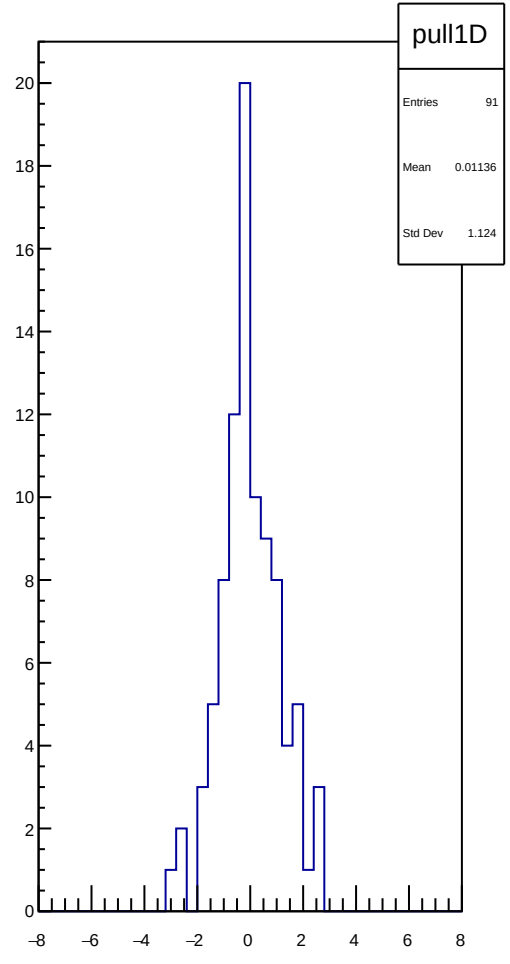

eigen_cor_asym_us_dd_rms vs run
χ^2 / ndf 87.7 / 90
p0 756.9 ± 0.5723
780
775
770
765
760
755
750
745
740

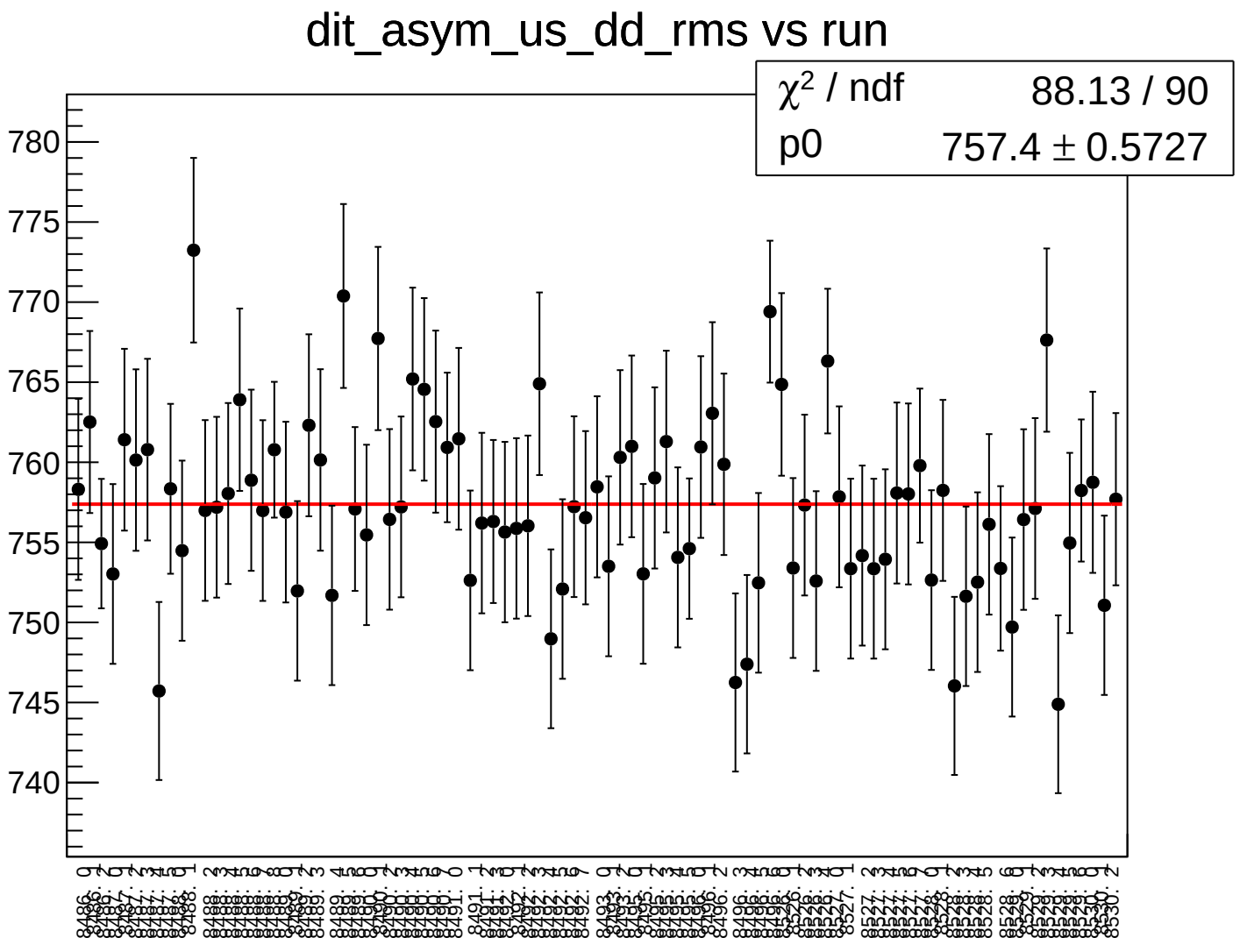

asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 82.51 / 90
p0 −1502 ± 1152
pull
Entries 91
Mean 93.79
Std Dev 0

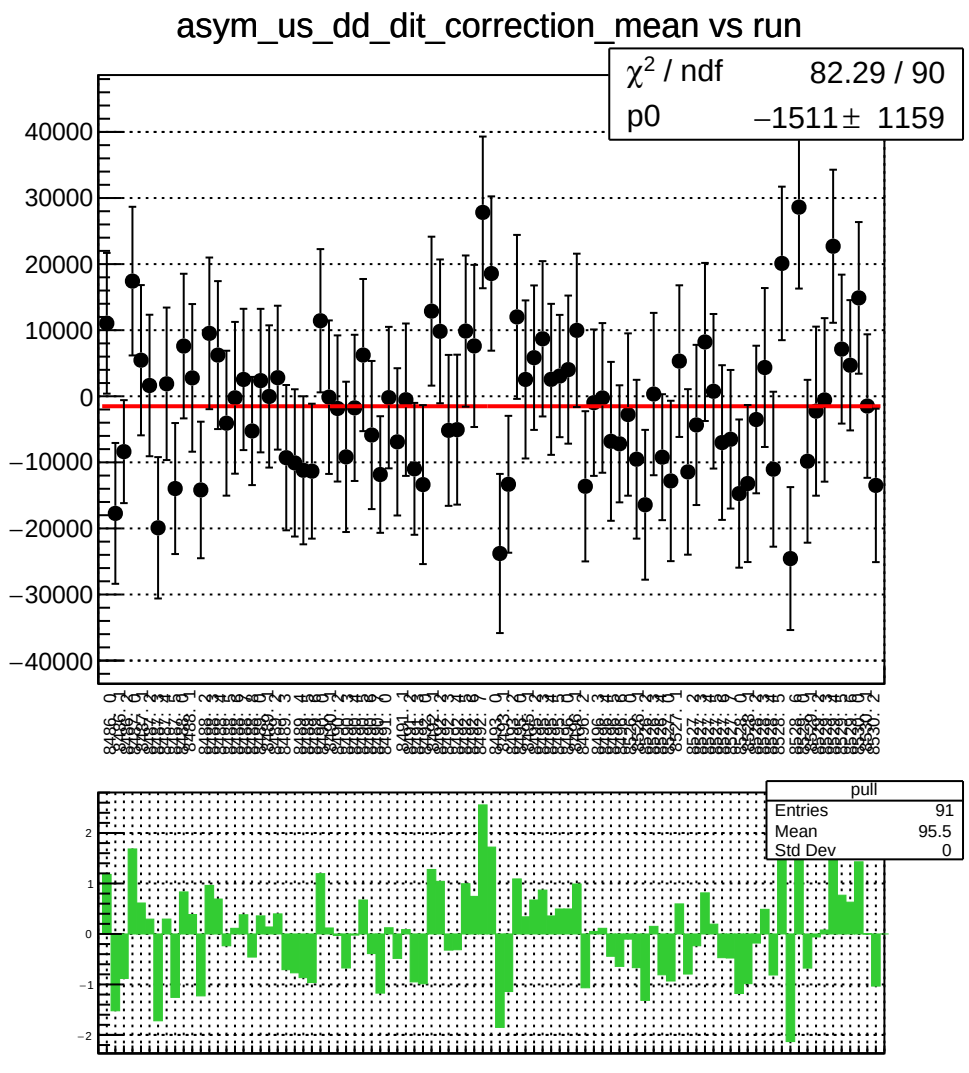

pull1D
Entries 91
Mean 0.02021
Std Dev 0.952

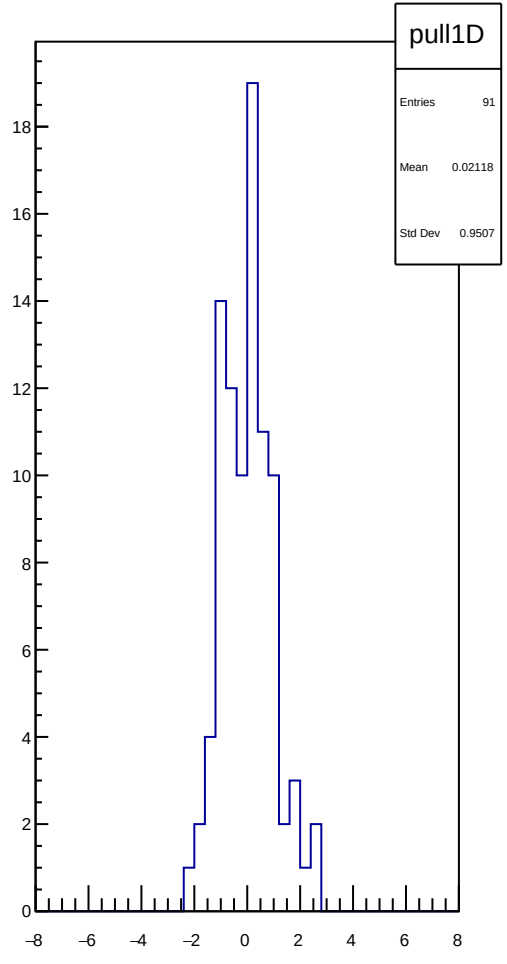

asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 4107 / 90
p0 1076 ± 0.8146
1200
1150
1100
1050
1000
950

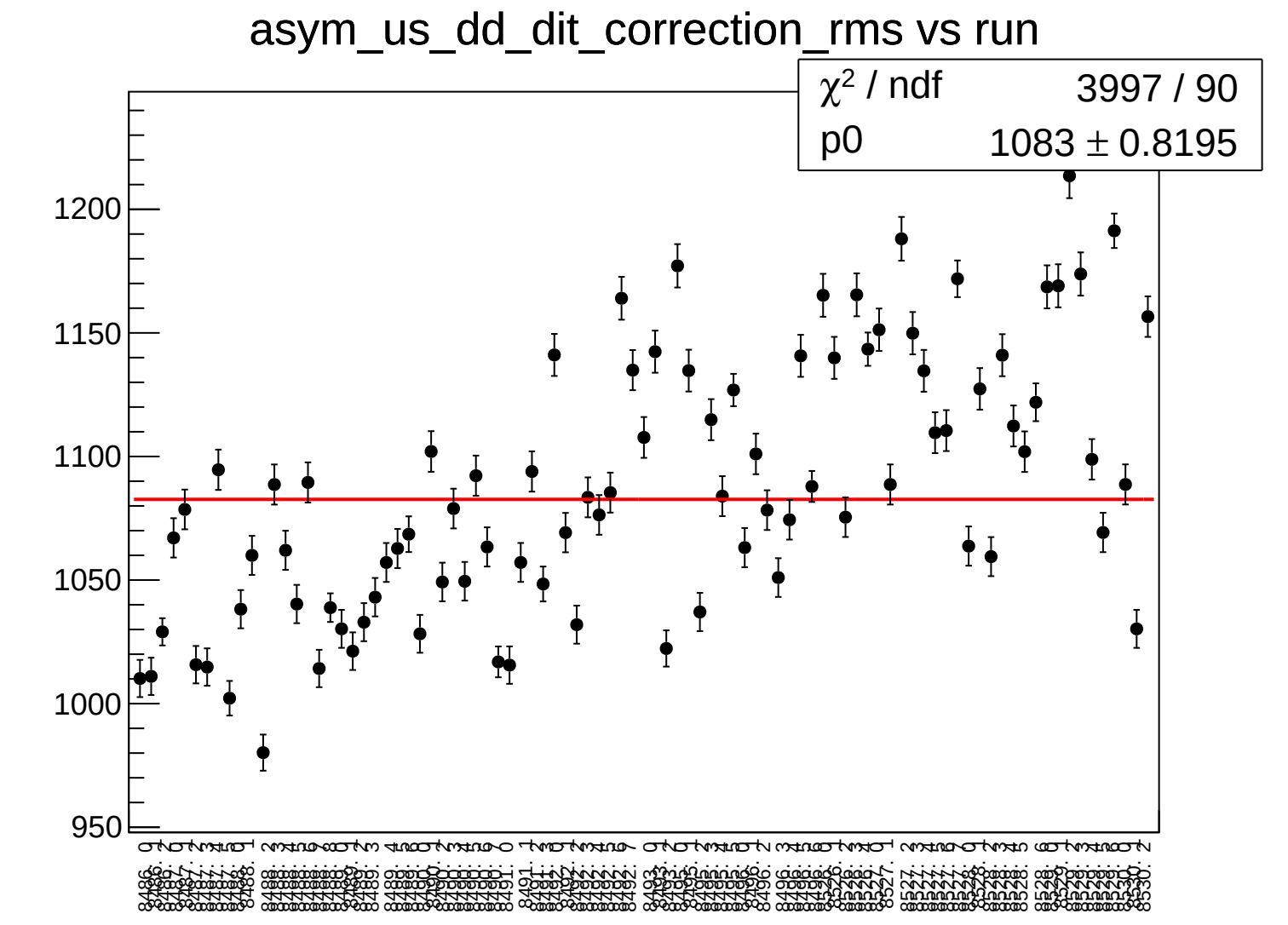

dit_asym_us_dd_mean vs run
χ² / ndf 114.9 / 90
p0 −1408 ± 809.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −109.5
Std Dev 0
2
1
0
−1
−2
−3

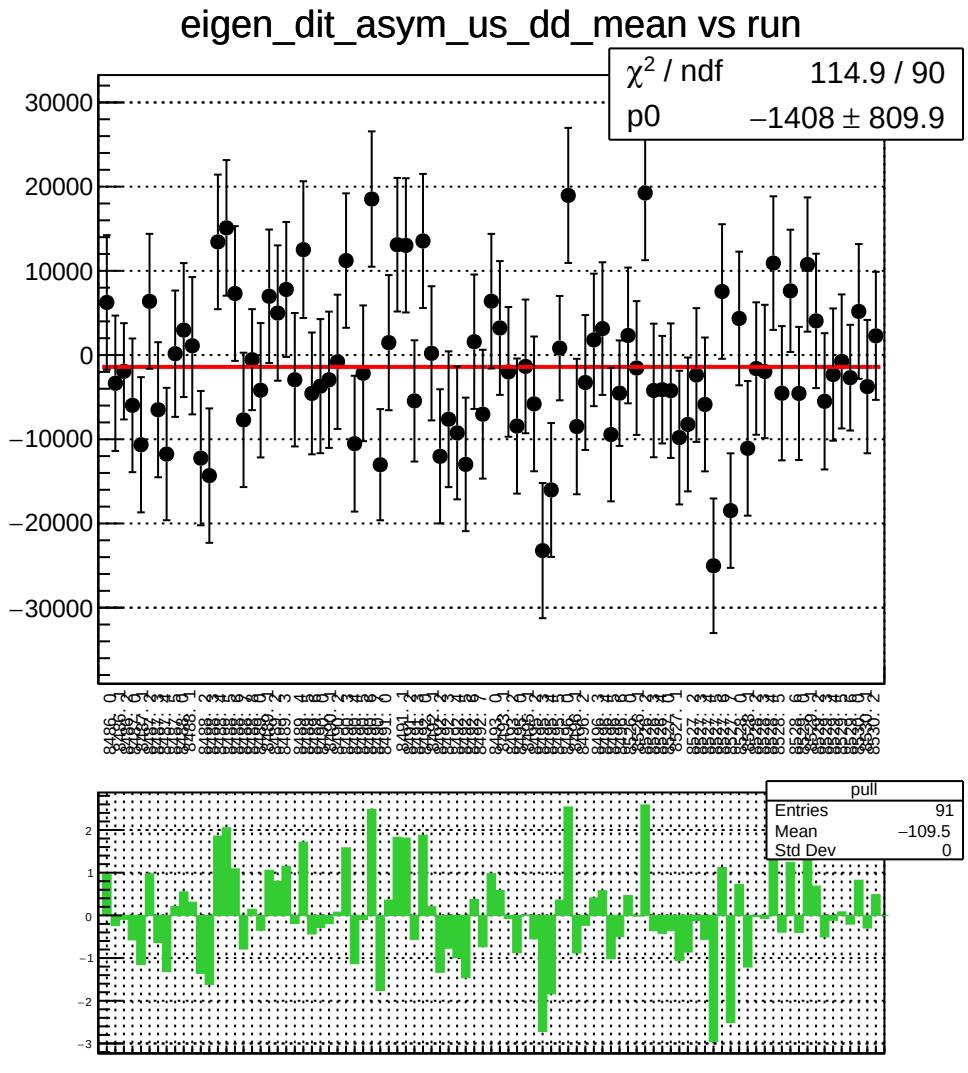

pull1D
Entries 91
Mean 0.01136
Std Dev 1.124
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

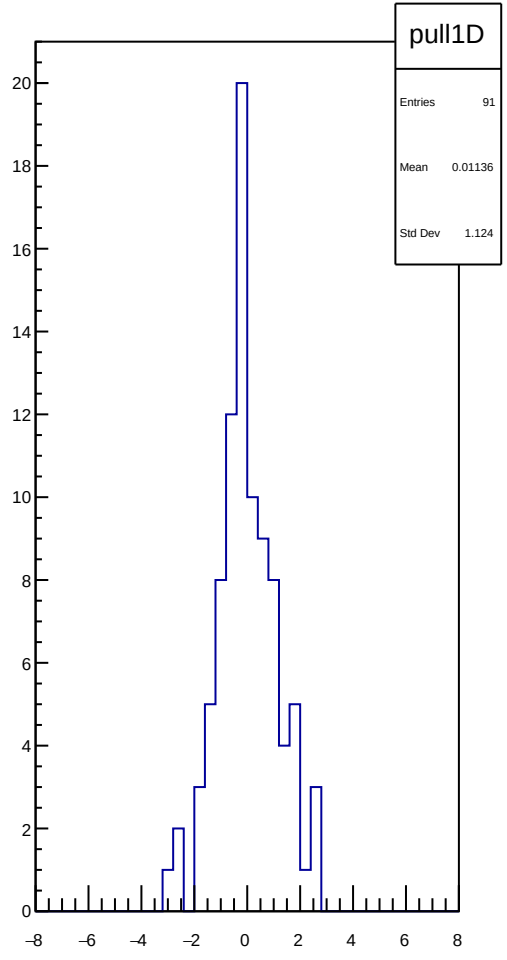

dit_asym_us_dd_rms vs run
χ² / ndf 88.13 / 90
p0 757.4 ± 0.5727
780
775
770
765
760
755
750
745
740

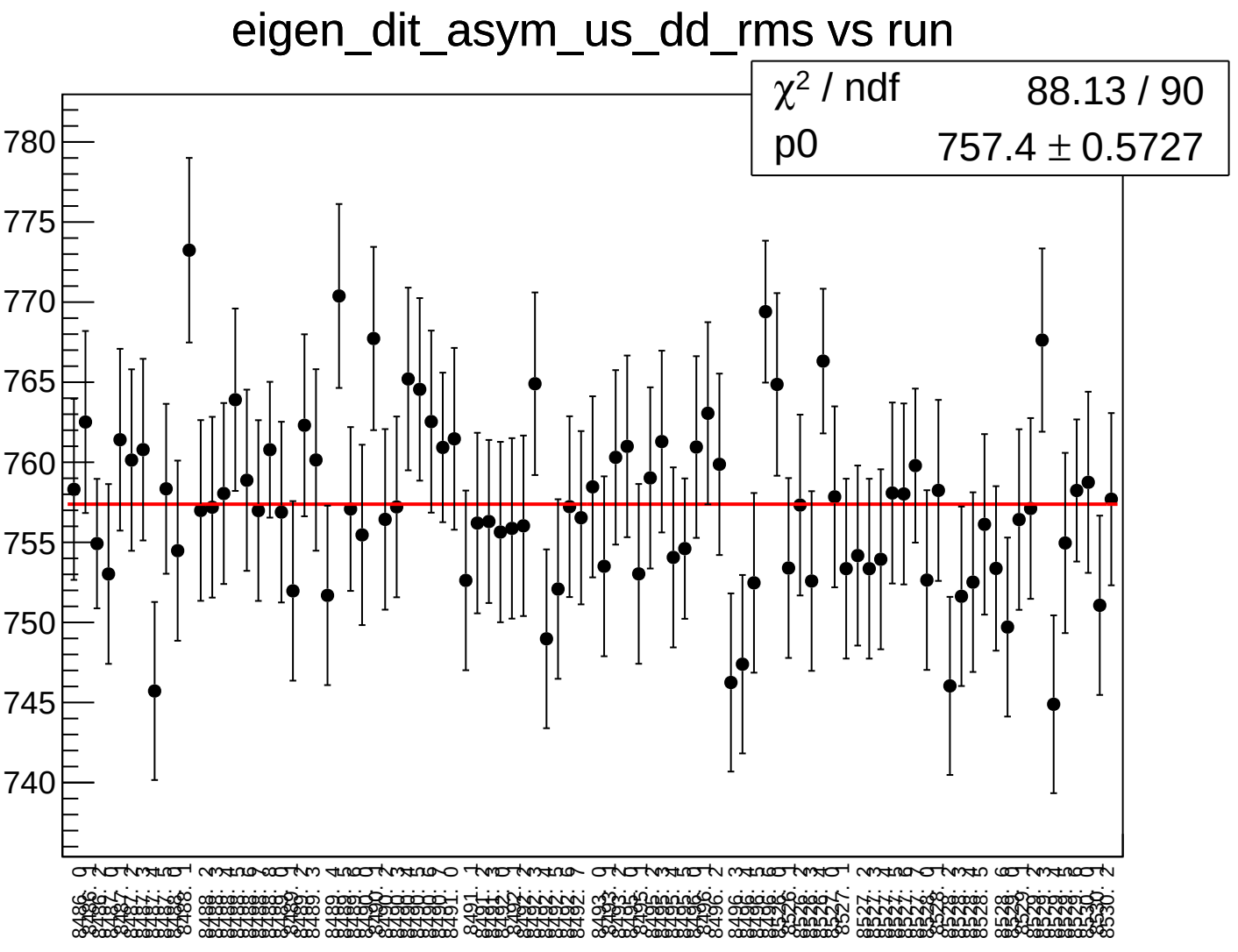

asym_us_dd_dit_correction_mean vs run
χ² / ndf 82.29 / 90
p0 −1511 ± 1159
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean 95.5
Std Dev 0
2
1
0
−1
−2

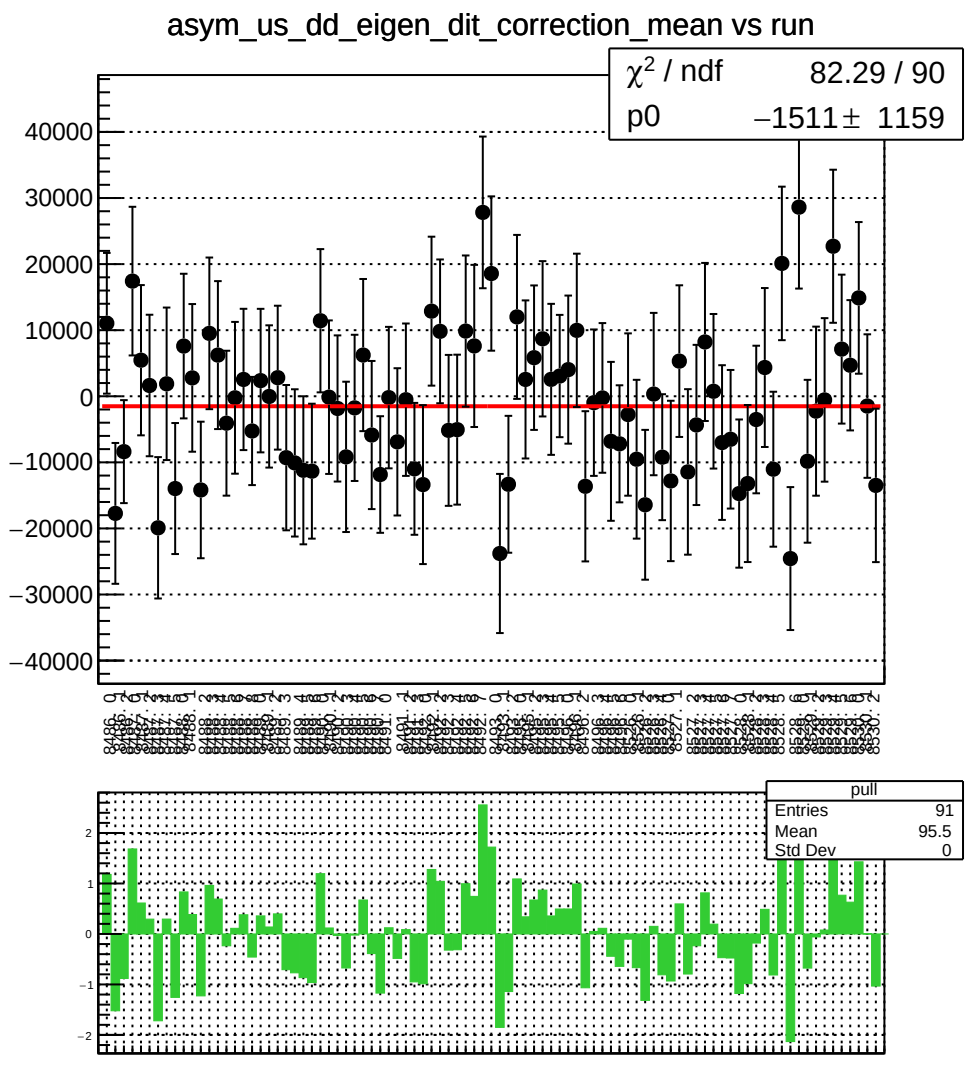

pull1D
Entries 91
Mean 0.02118
Std Dev 0.9507
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

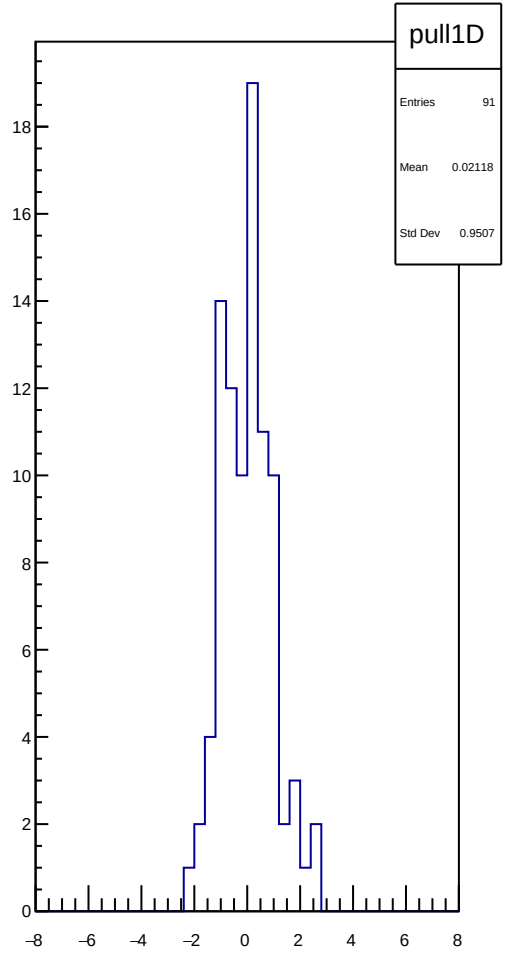

asym_us_dd_dit_correction_rms vs run
χ² / ndf 3997 / 90
p0 1083 ± 0.8195
1200
1150
1100
1050
1000
950

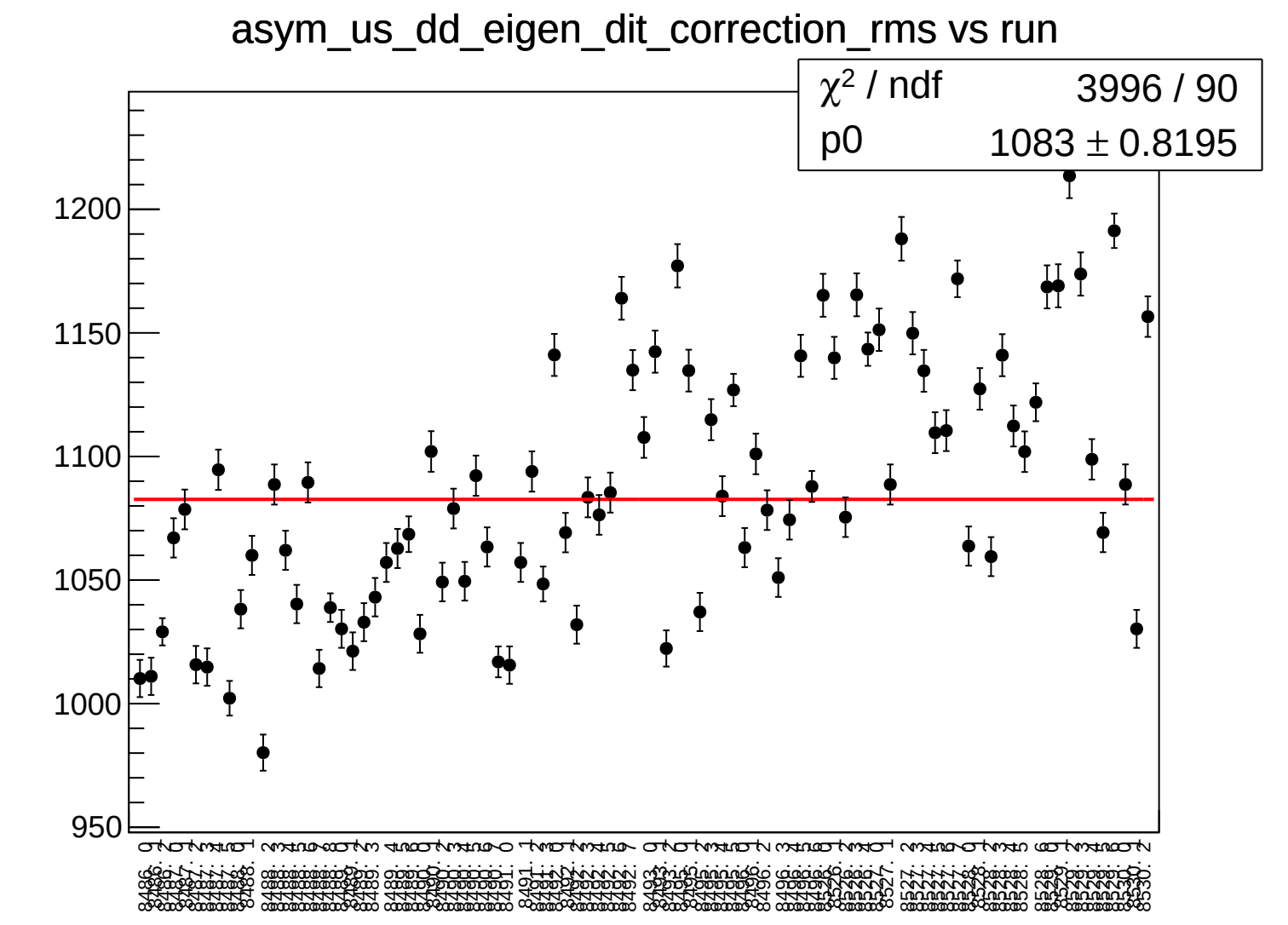

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 114.9 / 90
p0 −1408 ± 809.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −109.5
Std Dev 0
2
1
0
−1
−2
−3

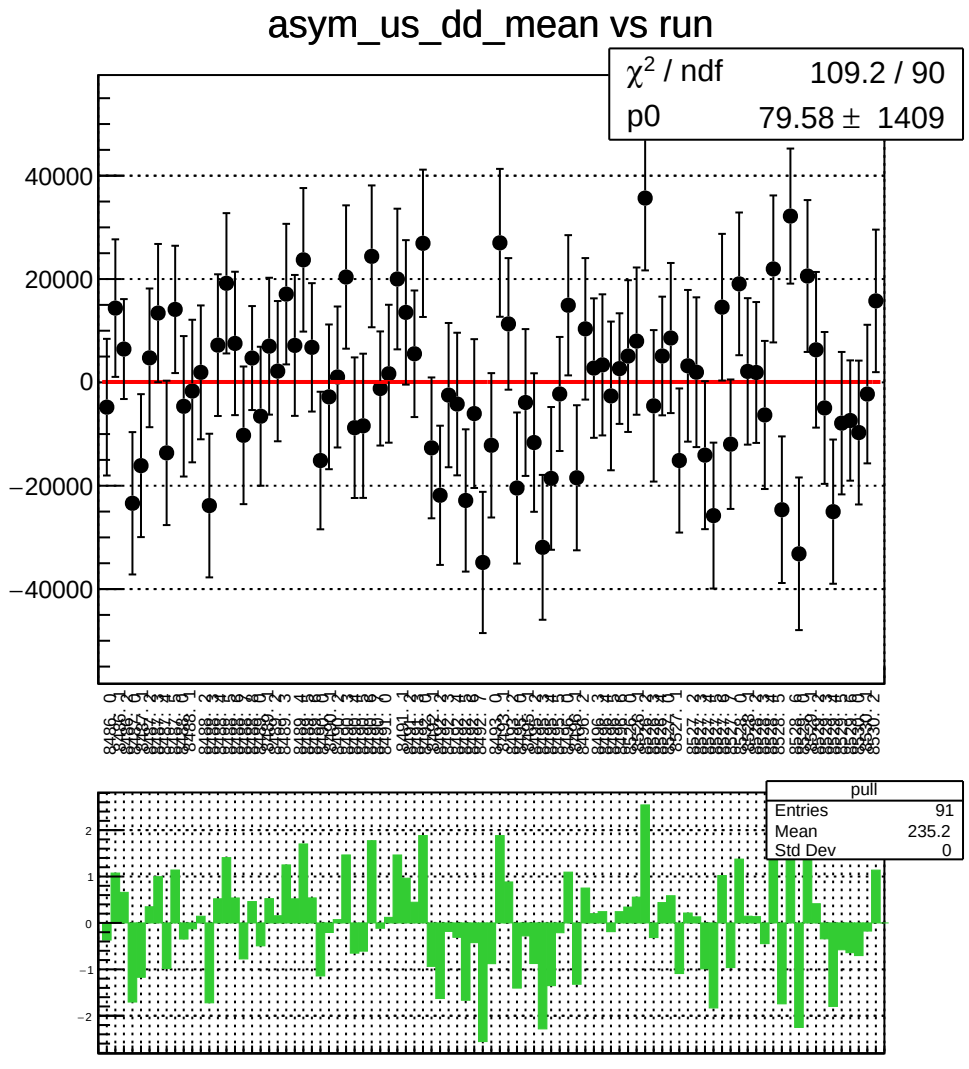

pull1D
Entries 91
Mean 0.01136
Std Dev 1.124
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

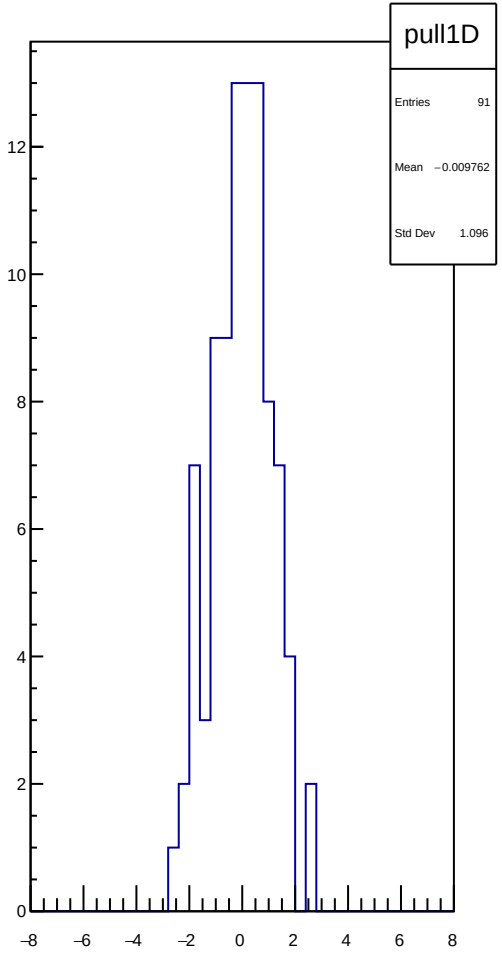

eigen_dit_asym_us_dd_rms vs run
χ² / ndf 88.13 / 90
p0 757.4 ± 0.5727
780
775
770
765
760
755
750
745
740

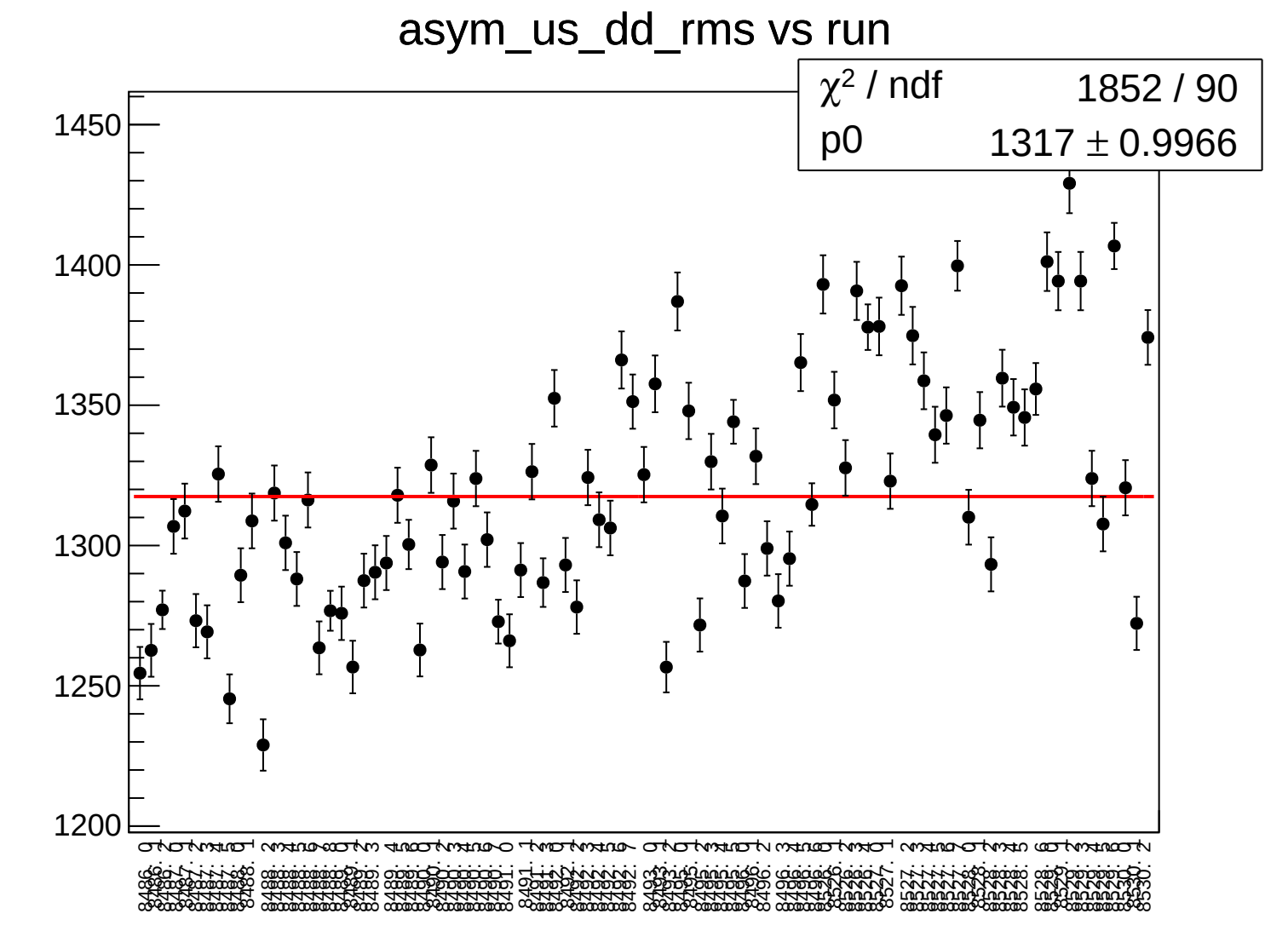

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 82.29 / 90
p0 −1511 ± 1159
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean 95.5
Std Dev 0
2
1
0
−1
−2

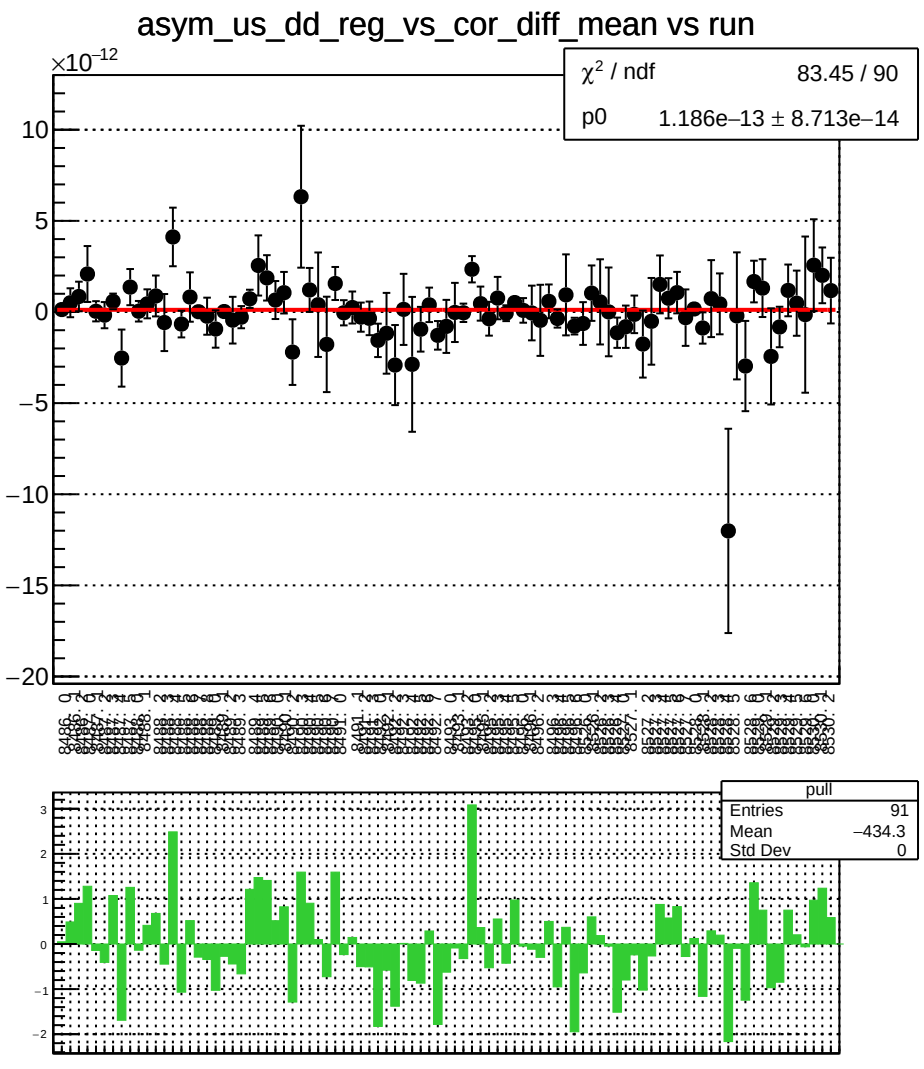

pull1D
Entries 91
Mean 0.02118
Std Dev 0.9507
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

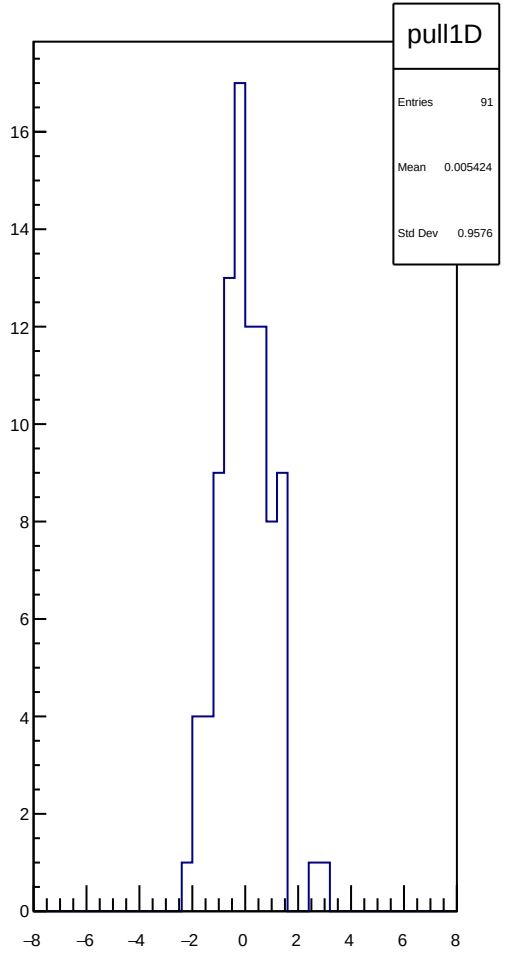

asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 3996 / 90
p0 1083 ± 0.8195
1200
1150
1100
1050
1000
950

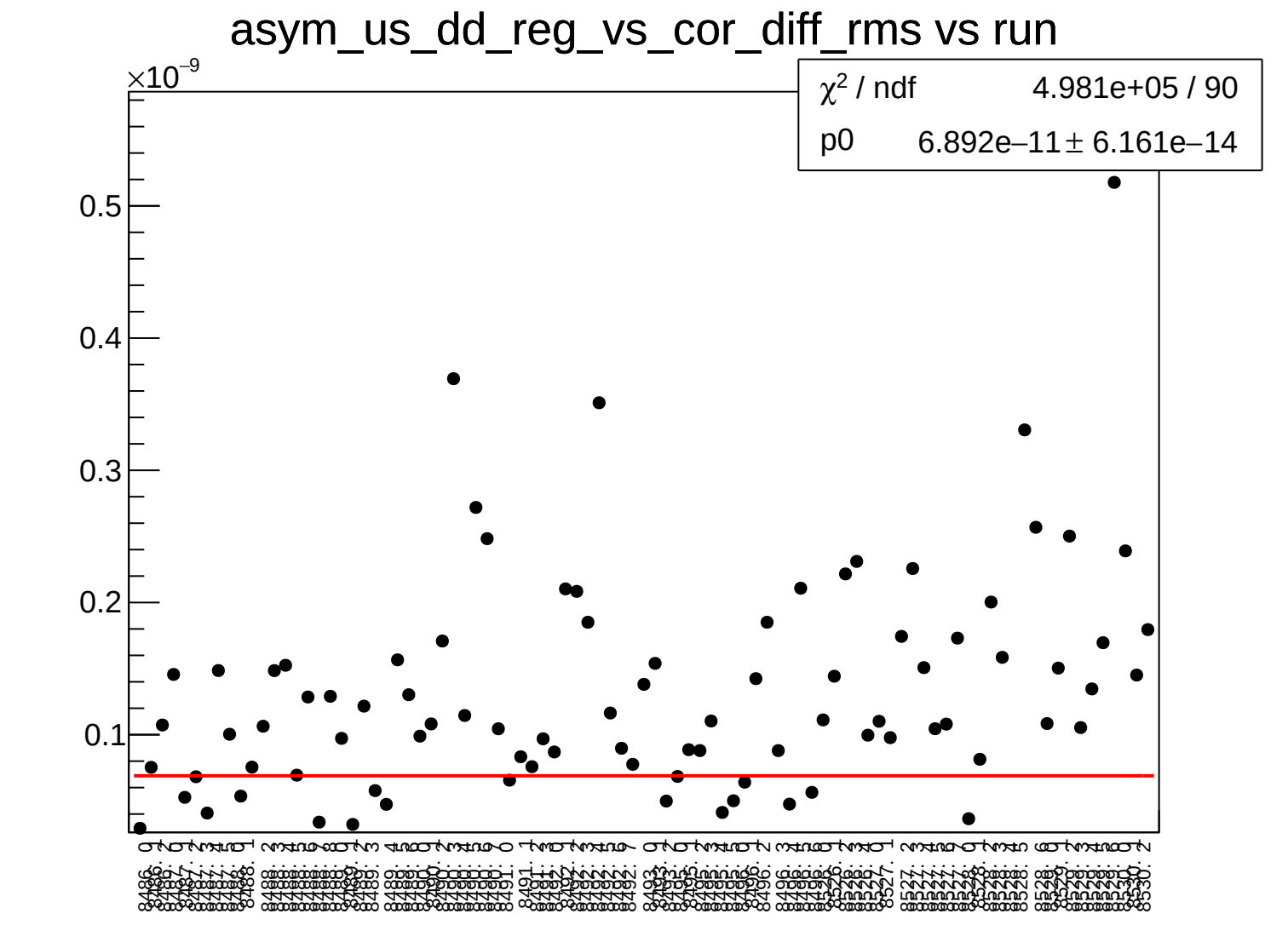

asym_us_dd_mean vs run
χ² / ndf 109.2 / 90
p0 79.58 ± 1409
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 235.2
Std Dev 0
2
1
0
−1
−2

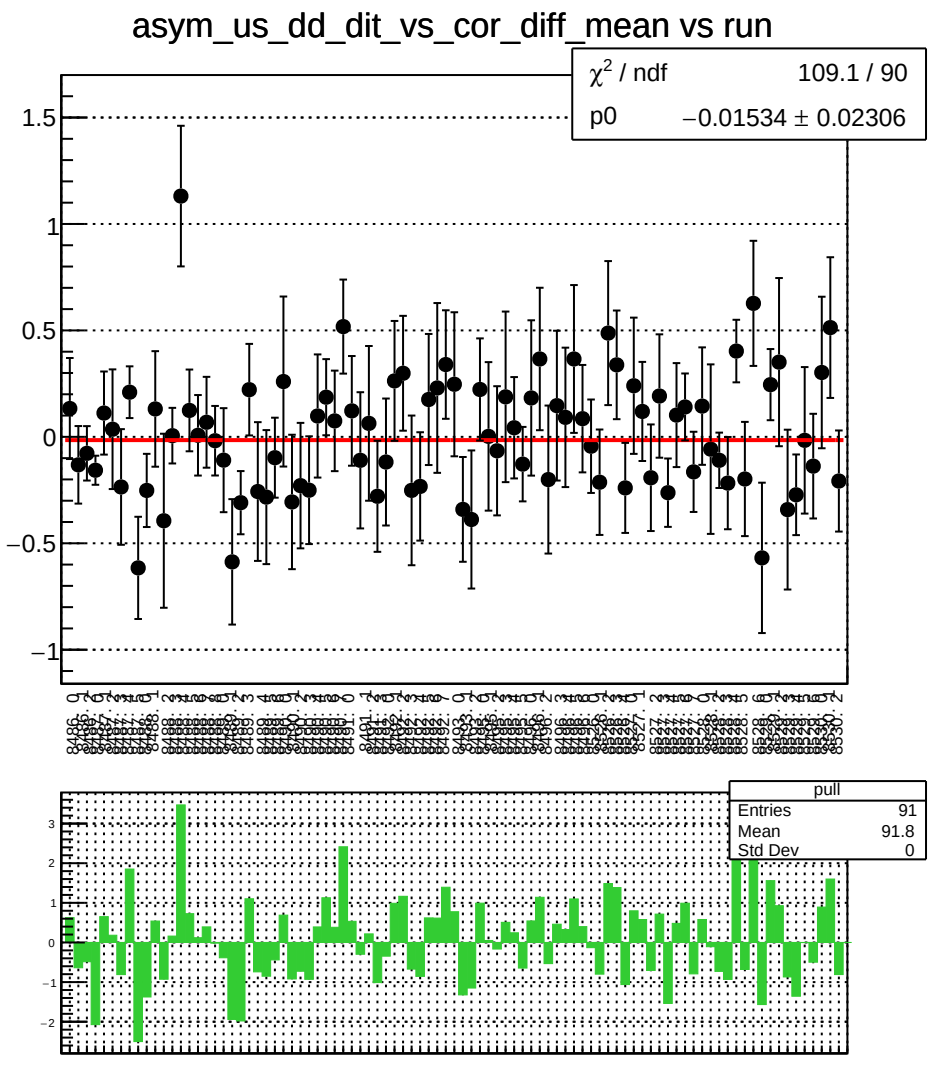

pull1D
Entries 91
Mean −0.009762
Std Dev 1.096
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

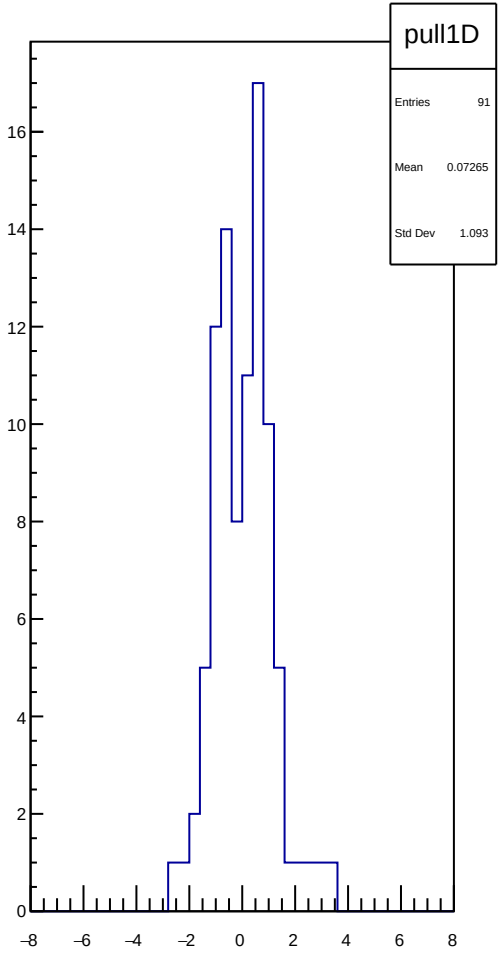

asym_us_dd_rms vs run
χ² / ndf 1852 / 90
p0 1317 ± 0.9966
1450
1400
1350
1300
1250
1200

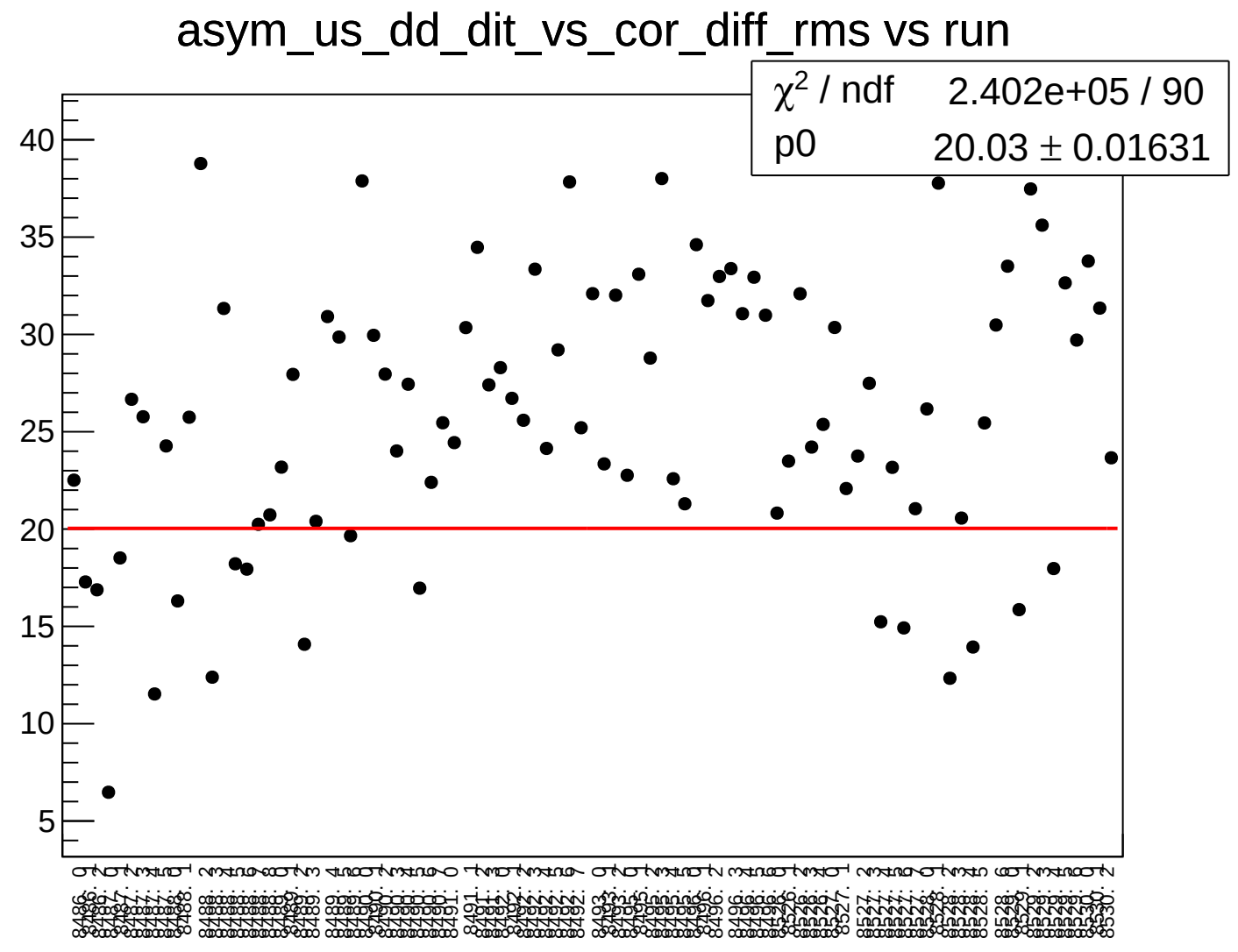

asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.45 / 90
p0 1.186e−13 ± 8.713e−14
pull
Entries 91
Mean −434.3
Std Dev 0

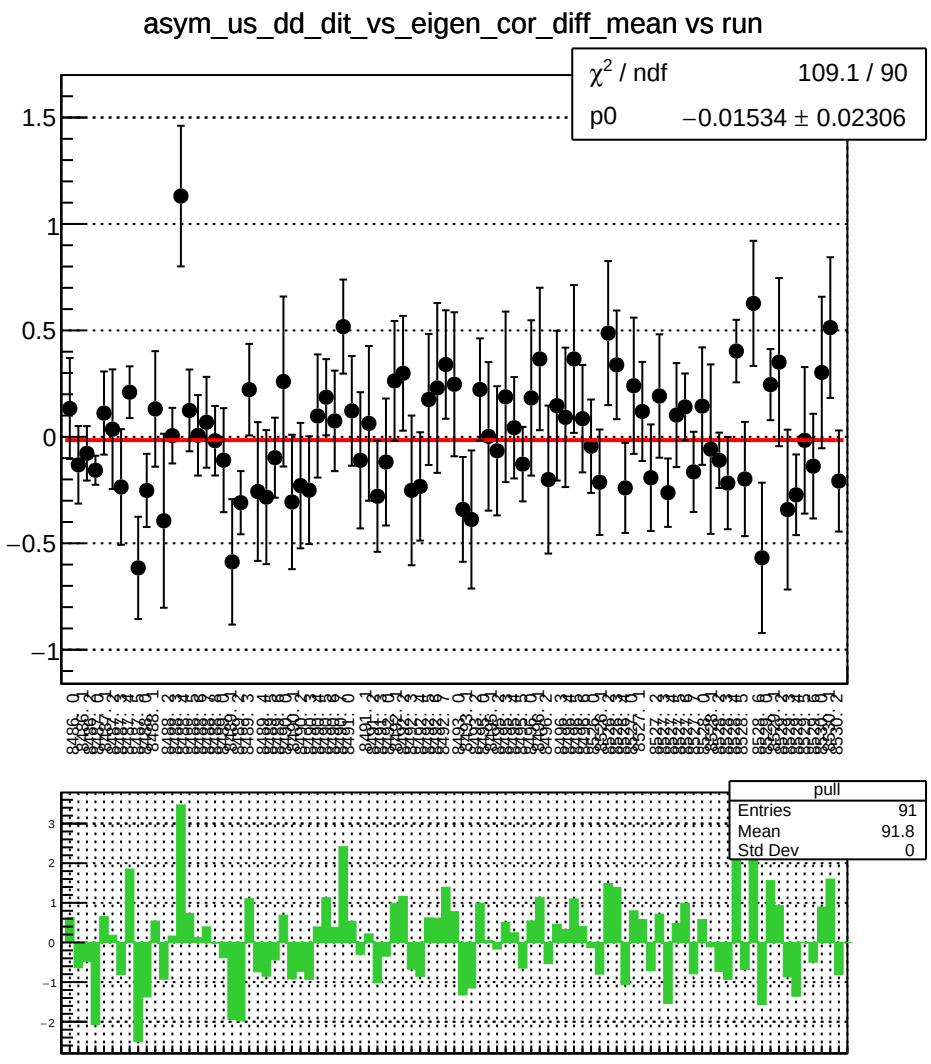

pull1D
Entries 91
Mean 0.005424
Std Dev 0.9576

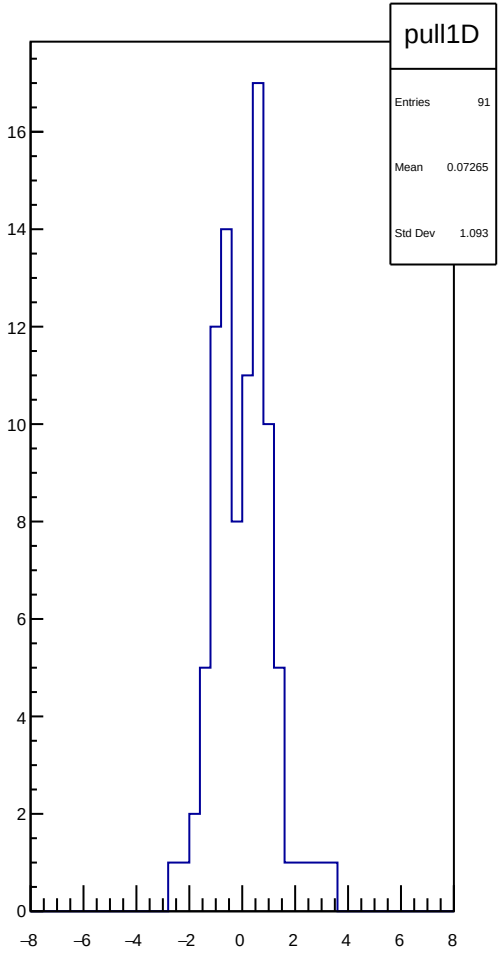

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.981e+05 / 90
p0 6.892e−11 ± 6.161e−14
0.5
0.4
0.3
0.2
0.1

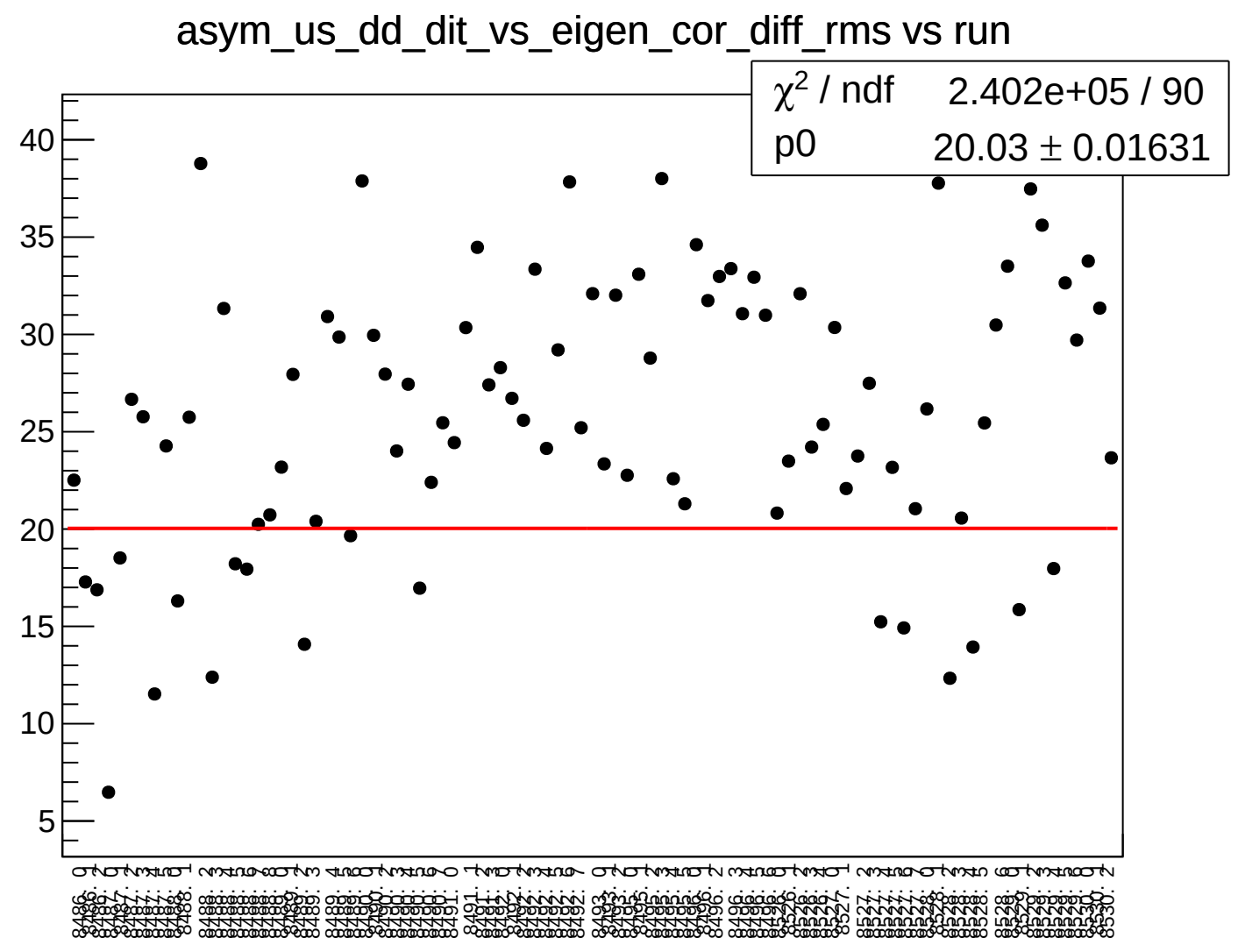

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 109.1 / 90
p0 −0.01534 ± 0.02306
pull
Entries 91
Mean 91.8
Std Dev 0

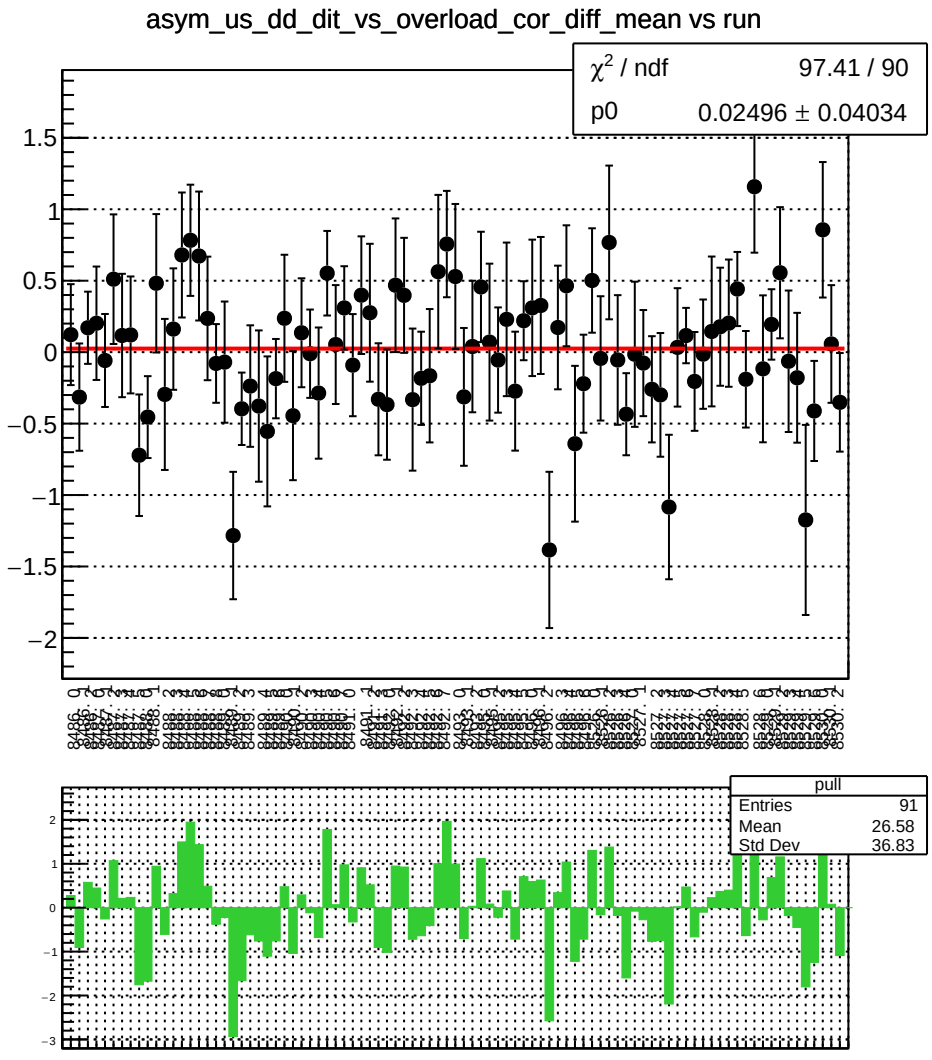

pull1D
Entries 91
Mean 0.07265
Std Dev 1.093

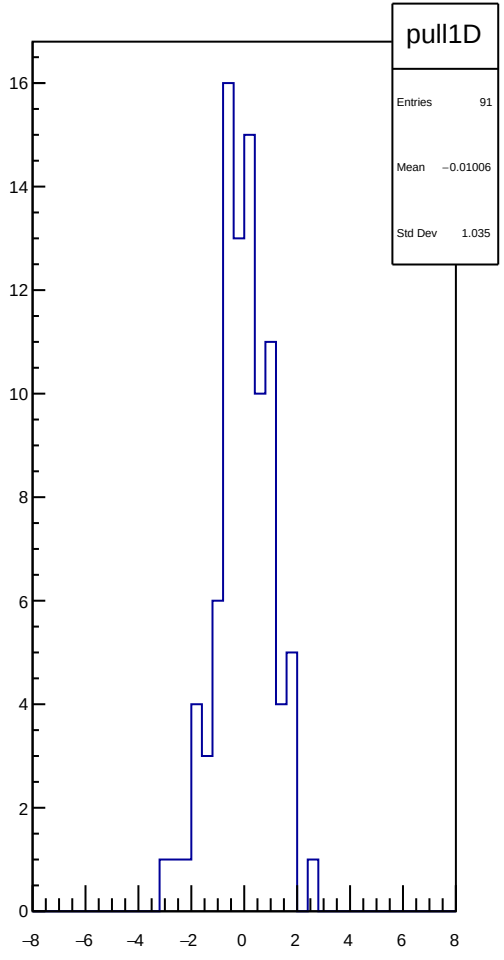

asym_us_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.402e+05 / 90
p0 20.03 ± 0.01631
40
35
30
25
20
15
10
5

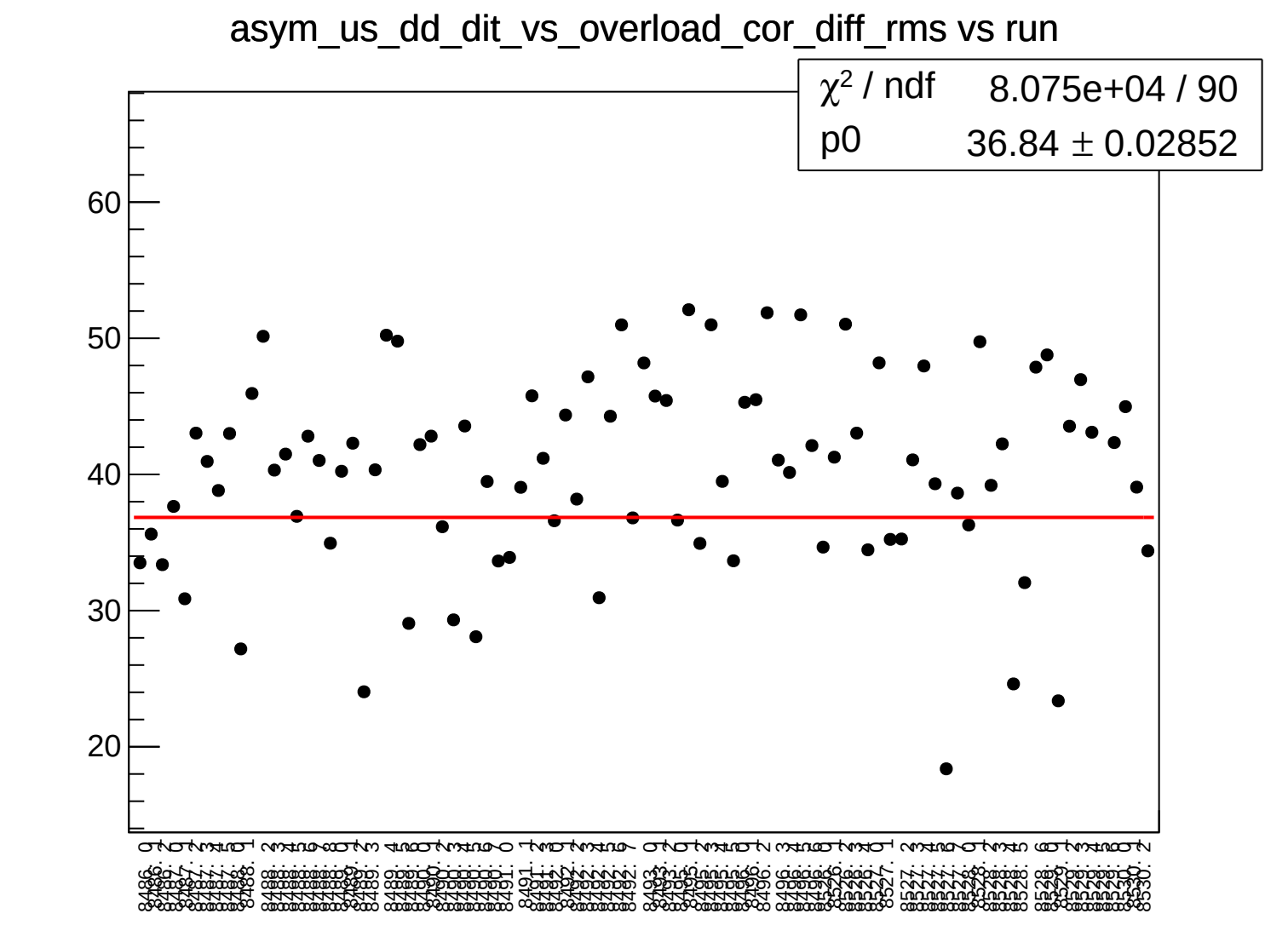

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.1 / 90
p0 −0.01534 ± 0.02306
pull
Entries 91
Mean 91.8
Std Dev 0

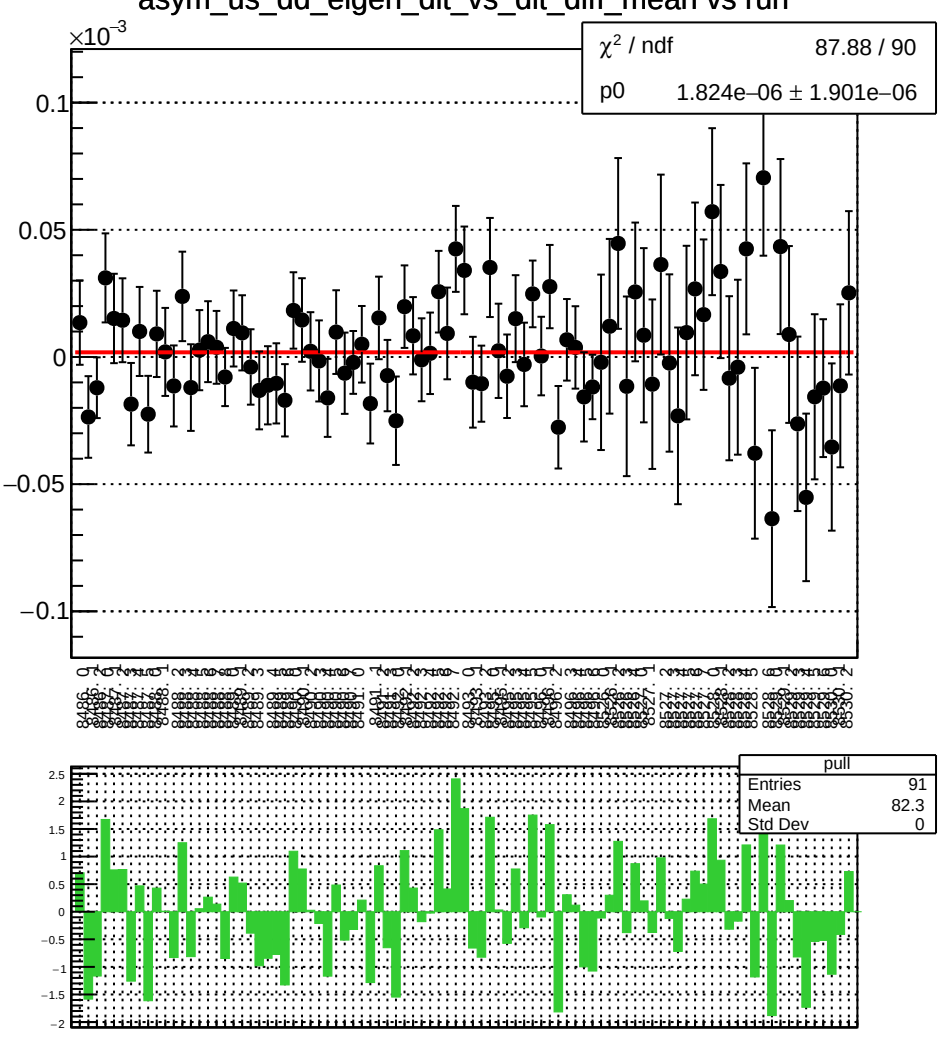

pull1D
Entries 91
Mean 0.07265
Std Dev 1.093

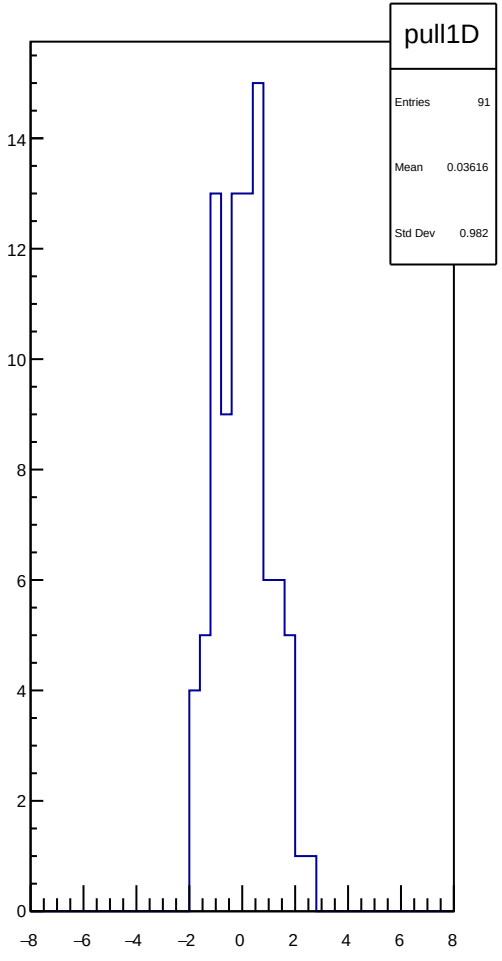

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.402e+05 / 90
p0 20.03 ± 0.01631
40
35
30
25
20
15
10
5

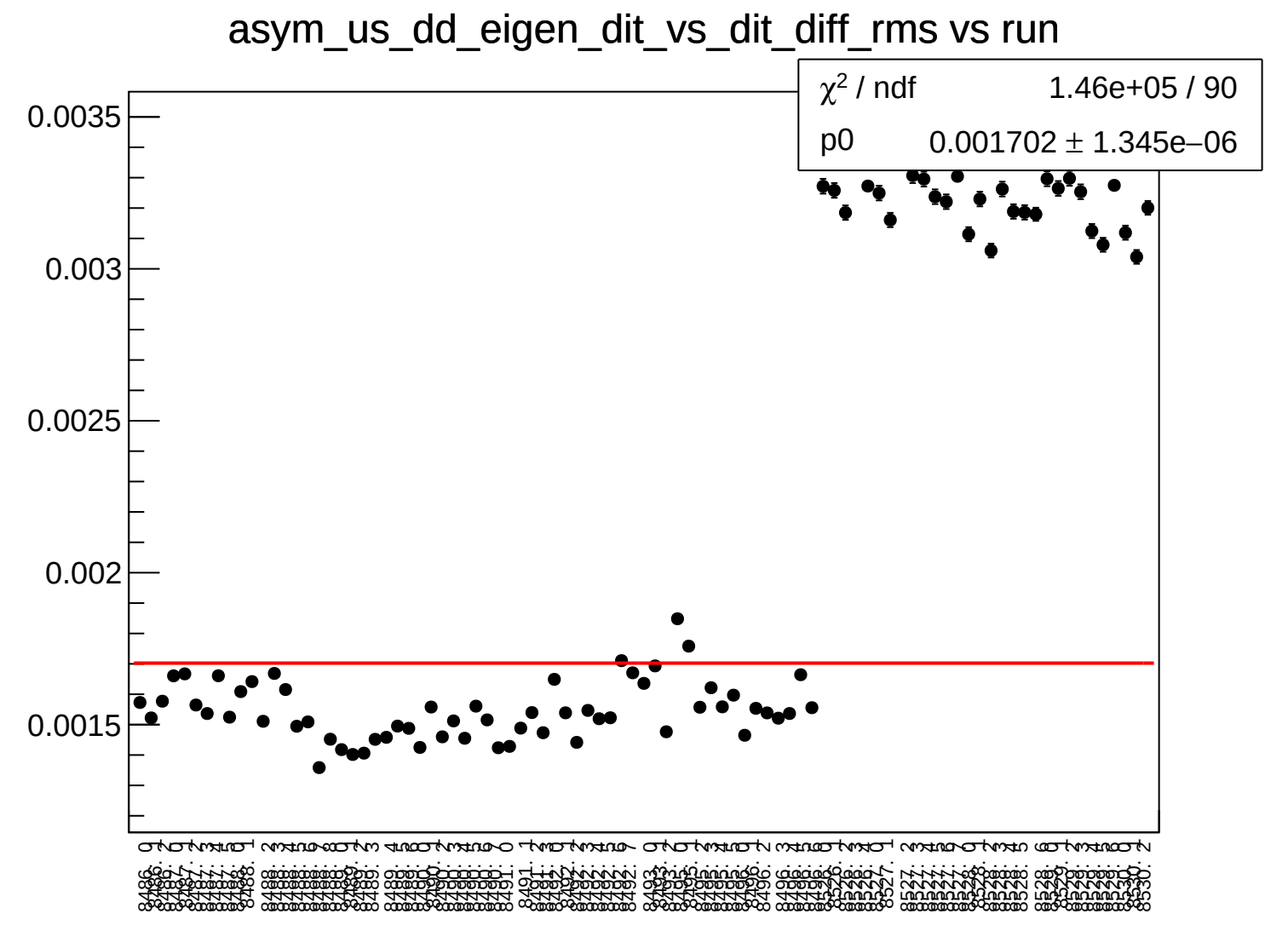

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 97.41 / 90
p0 0.02496 ± 0.04034
pull
Entries 91
Mean 26.58
Std Dev 36.83

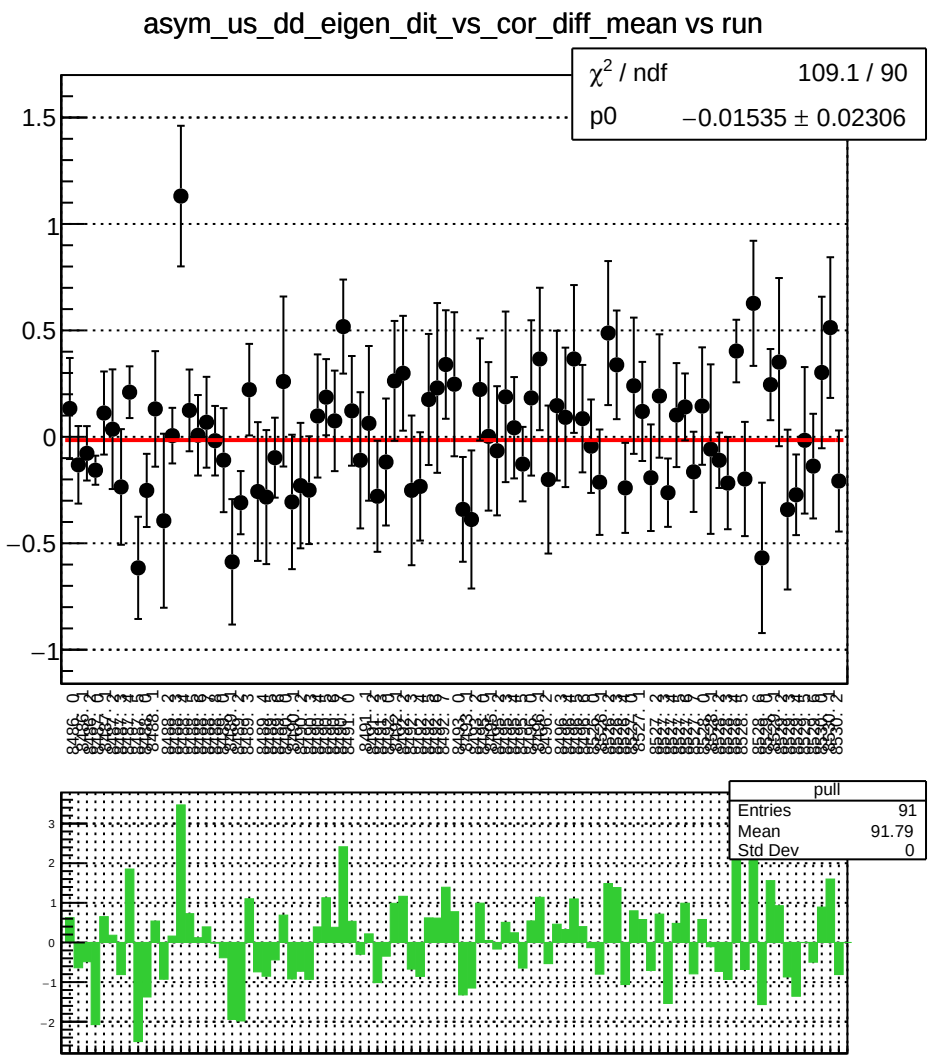

pull1D
Entries 91
Mean −0.01006
Std Dev 1.035

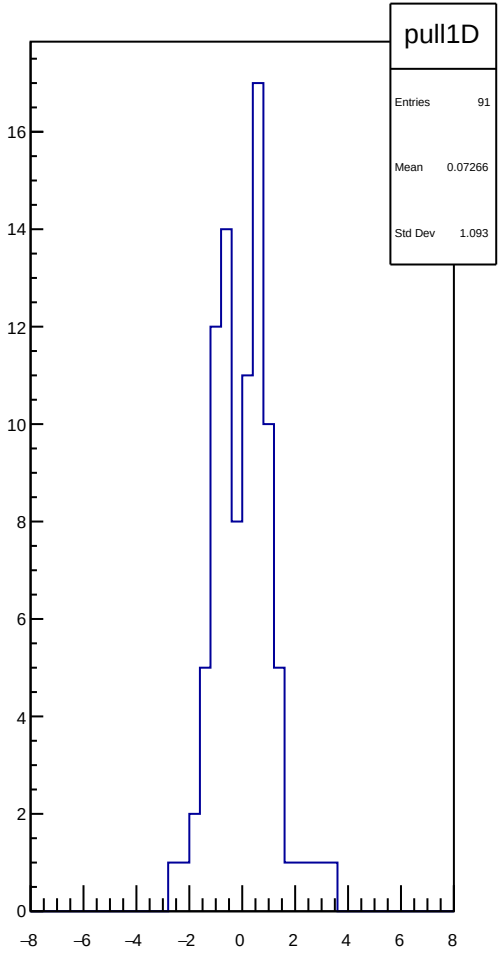

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 8.075e+04 / 90
p0 36.84 ± 0.02852
60
50
40
30
20

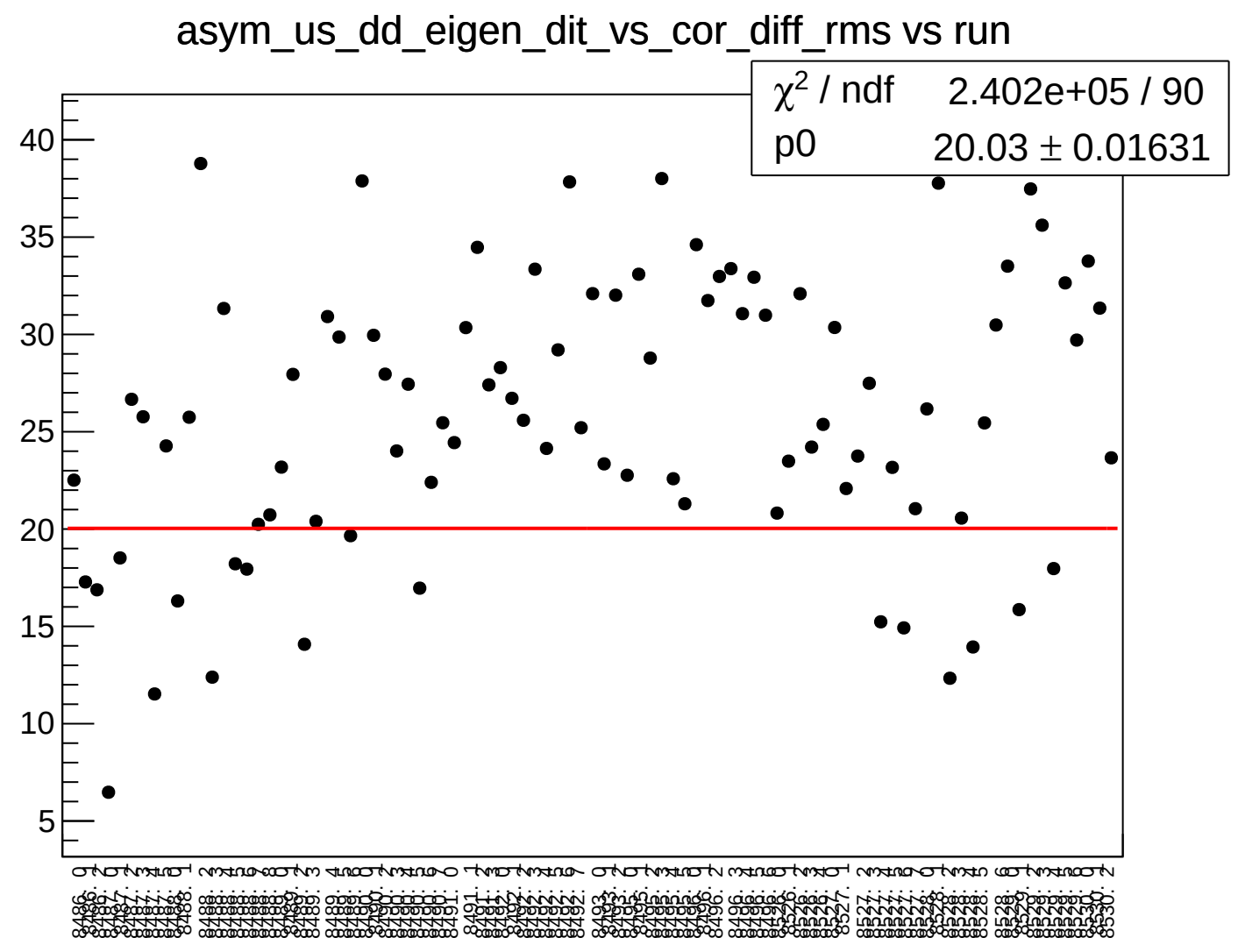

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.88 / 90
p0 1.824e−06 ± 1.901e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 91
Mean 82.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

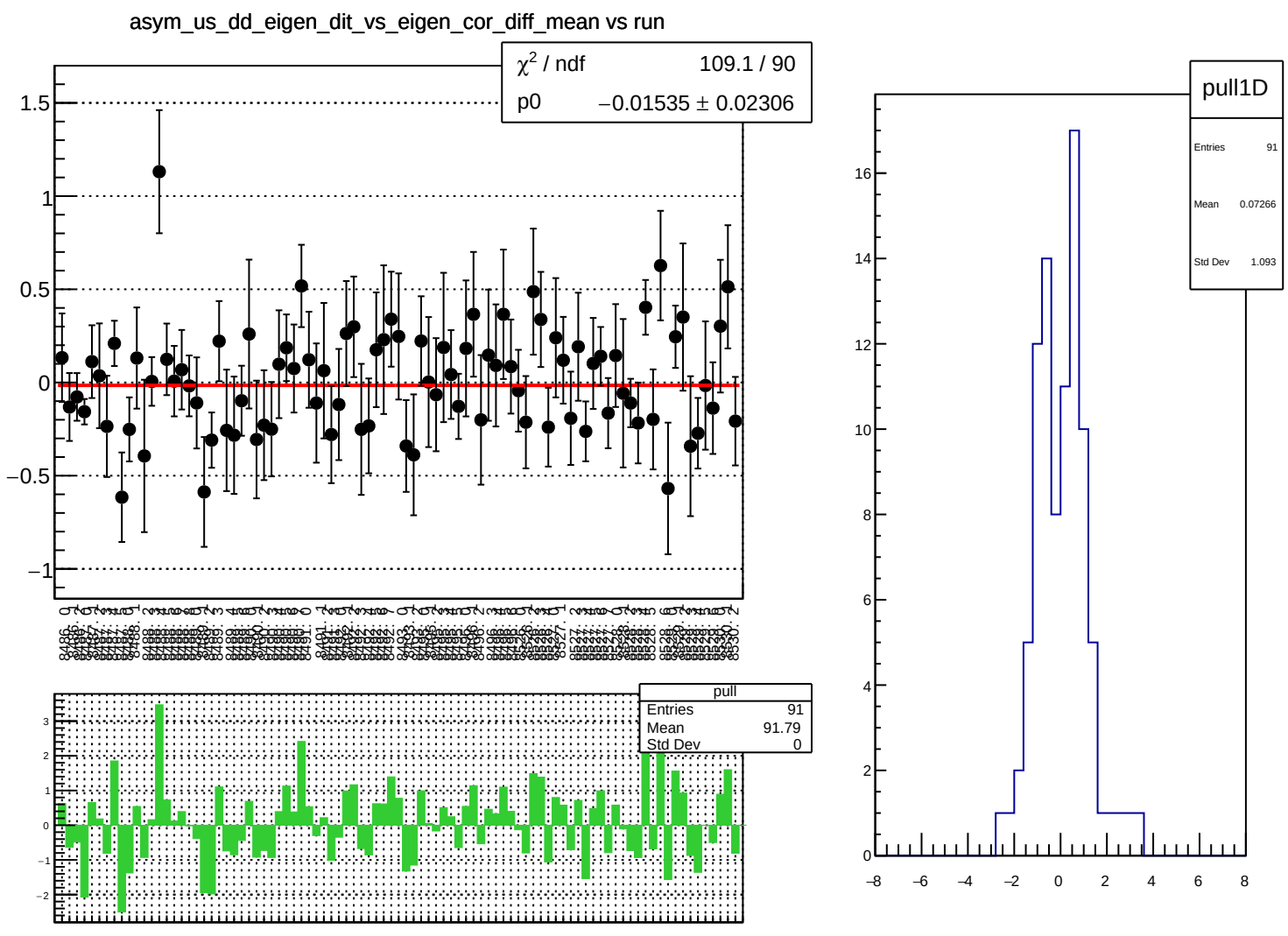

pull1D
Entries 91
Mean 0.03616
Std Dev 0.982
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

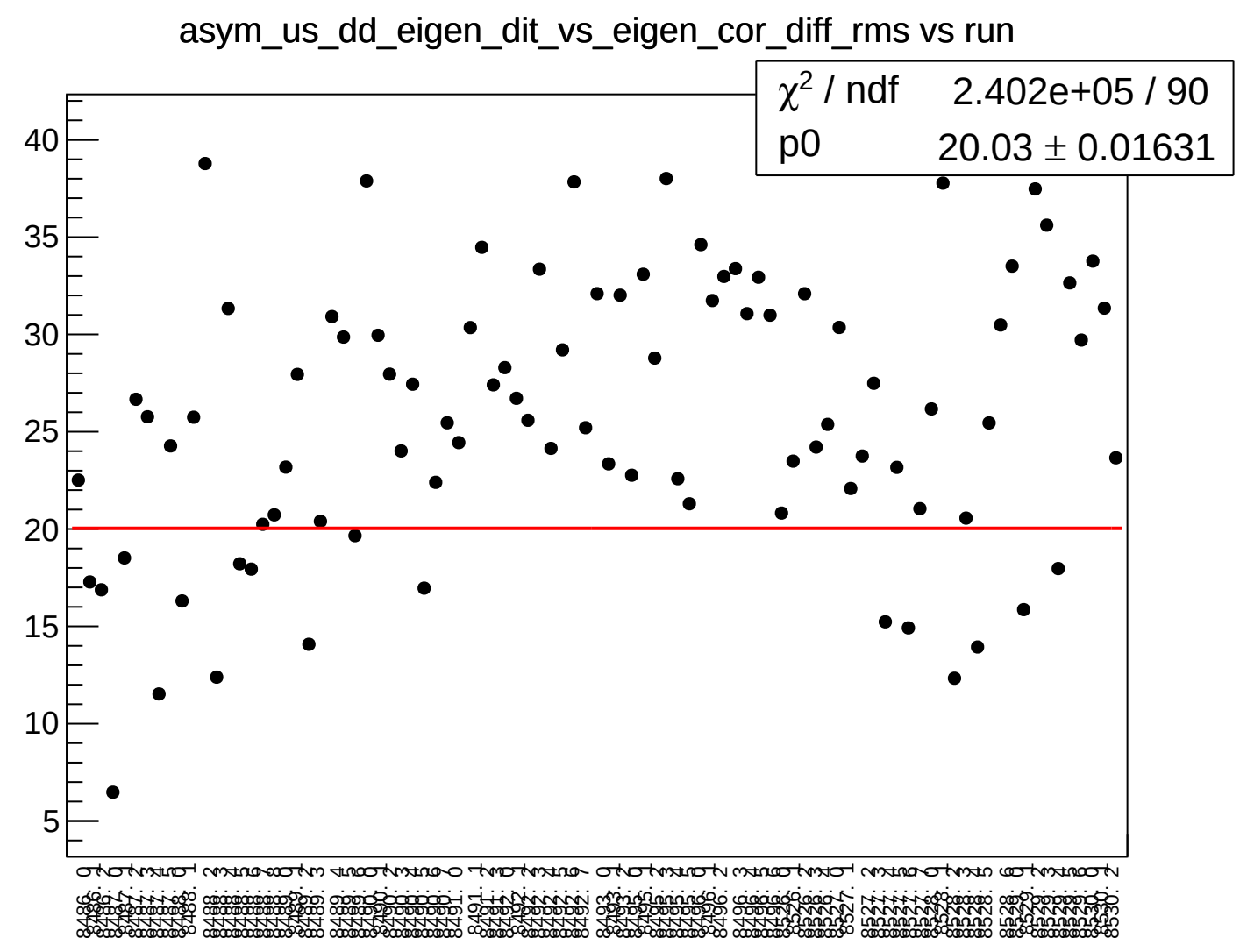

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.46e+05 / 90
p0 0.001702 ± 1.345e−06
0.0035
0.003
0.0025
0.002
0.0015

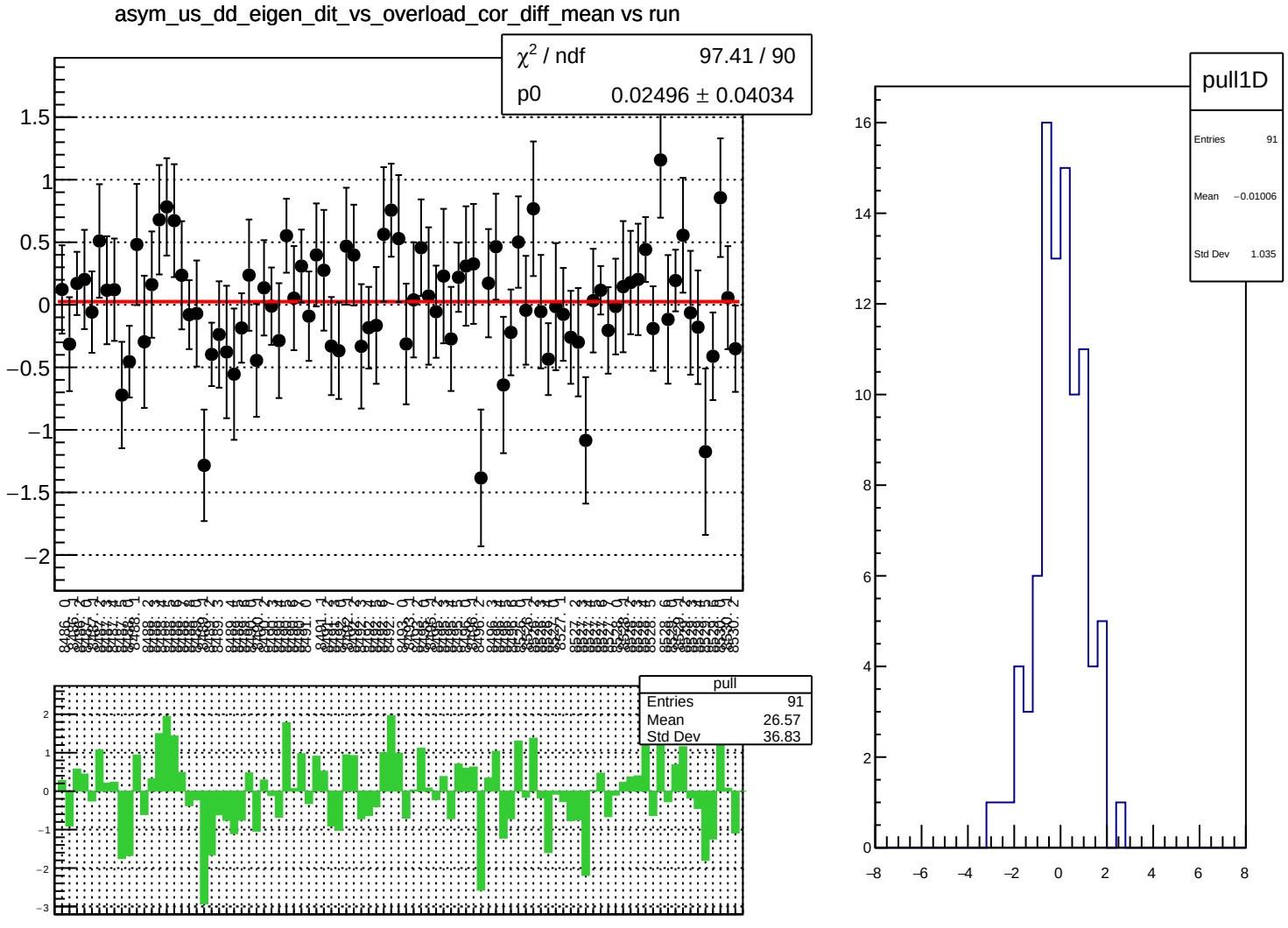

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 109.1 / 90
p0 −0.01535 ± 0.02306
pull
Entries 91
Mean 91.79
Std Dev 0

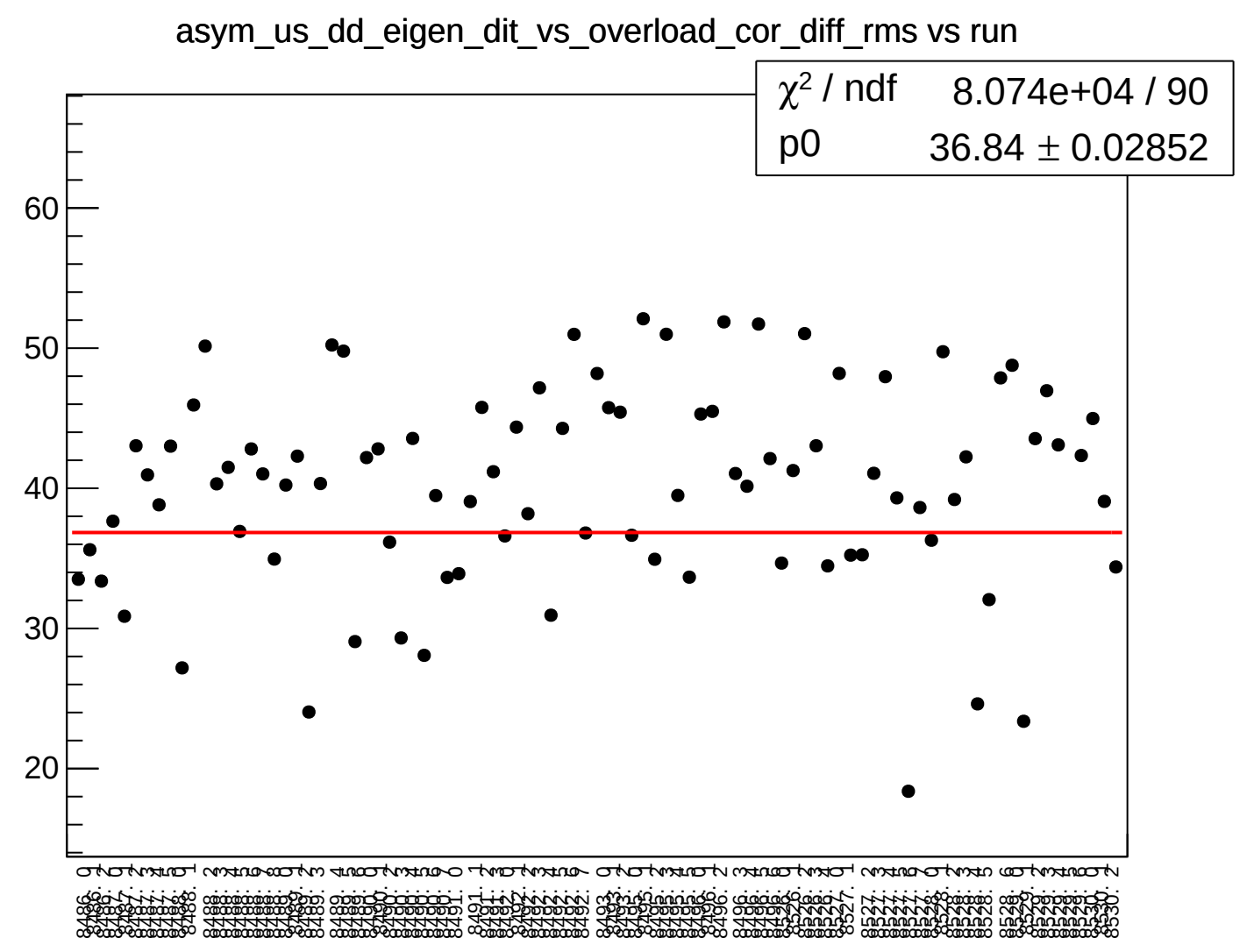

pull1D
Entries 91
Mean 0.07266
Std Dev 1.093

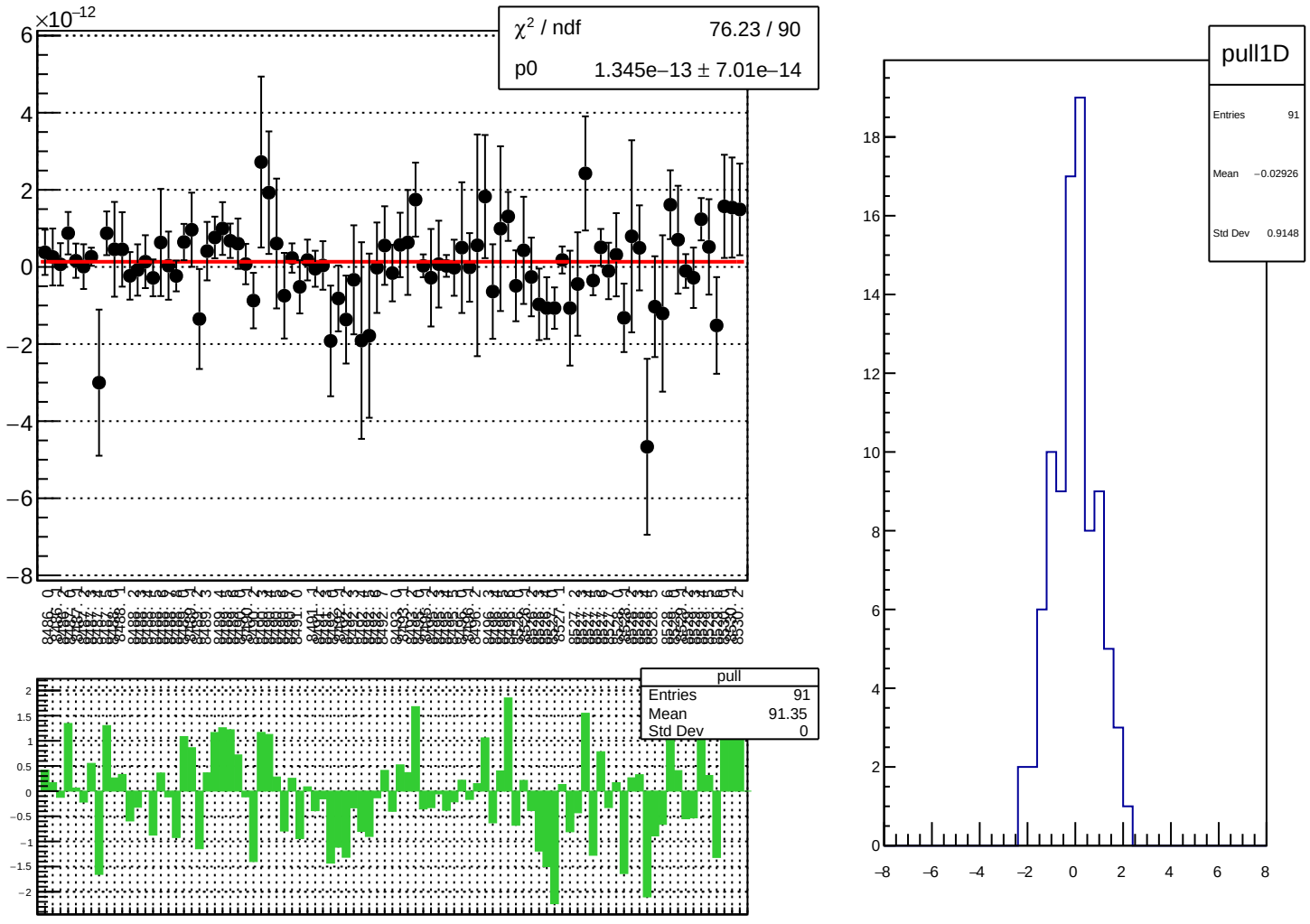

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.402e+05 / 90
p0 20.03 ± 0.01631
40
35
30
25
20
15
10
5

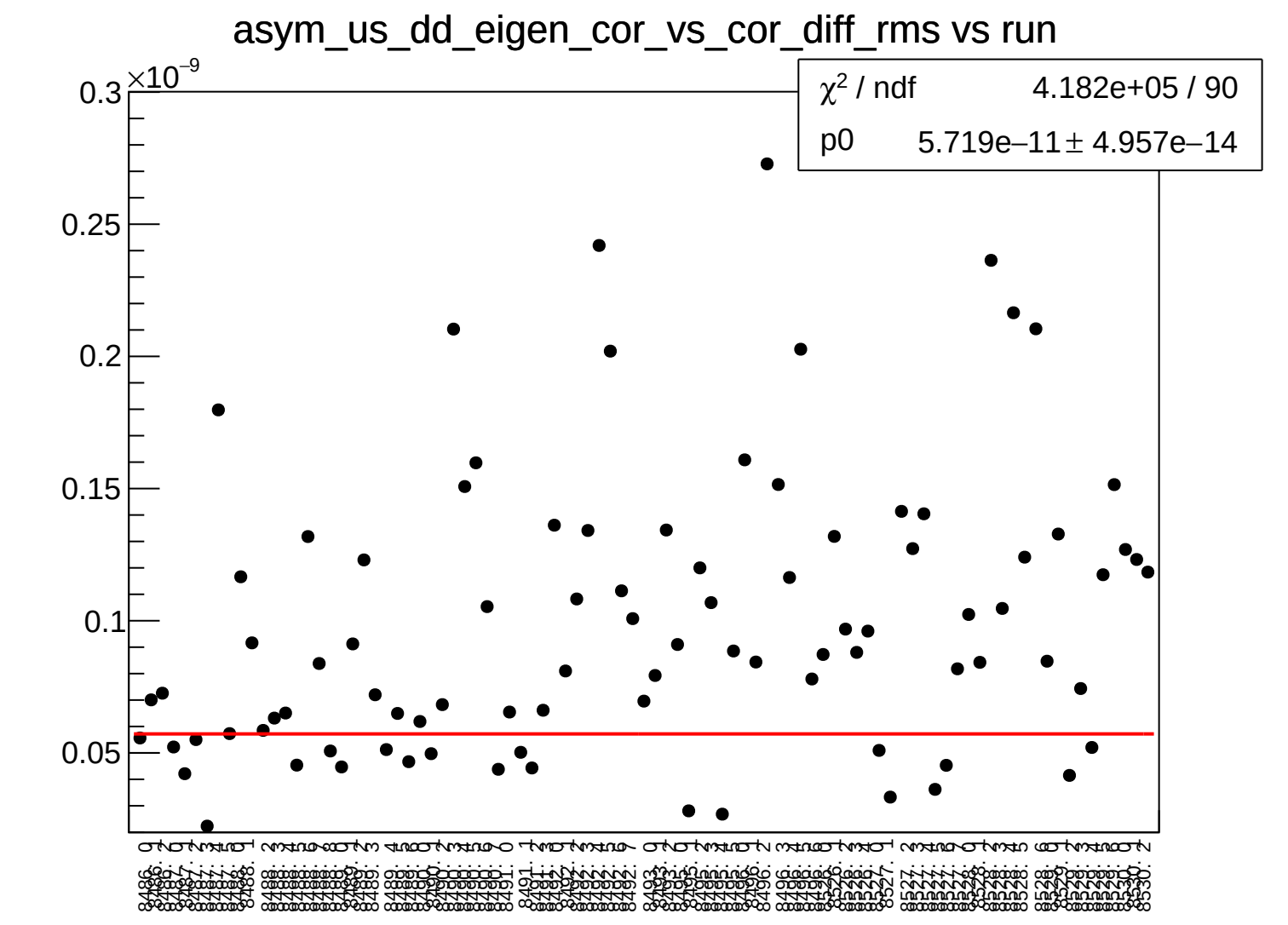

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.1 / 90
p0 −0.01535 ± 0.02306
pull
Entries 91
Mean 91.79
Std Dev 0
pull1D
Entries 91
Mean 0.07266
Std Dev 1.093

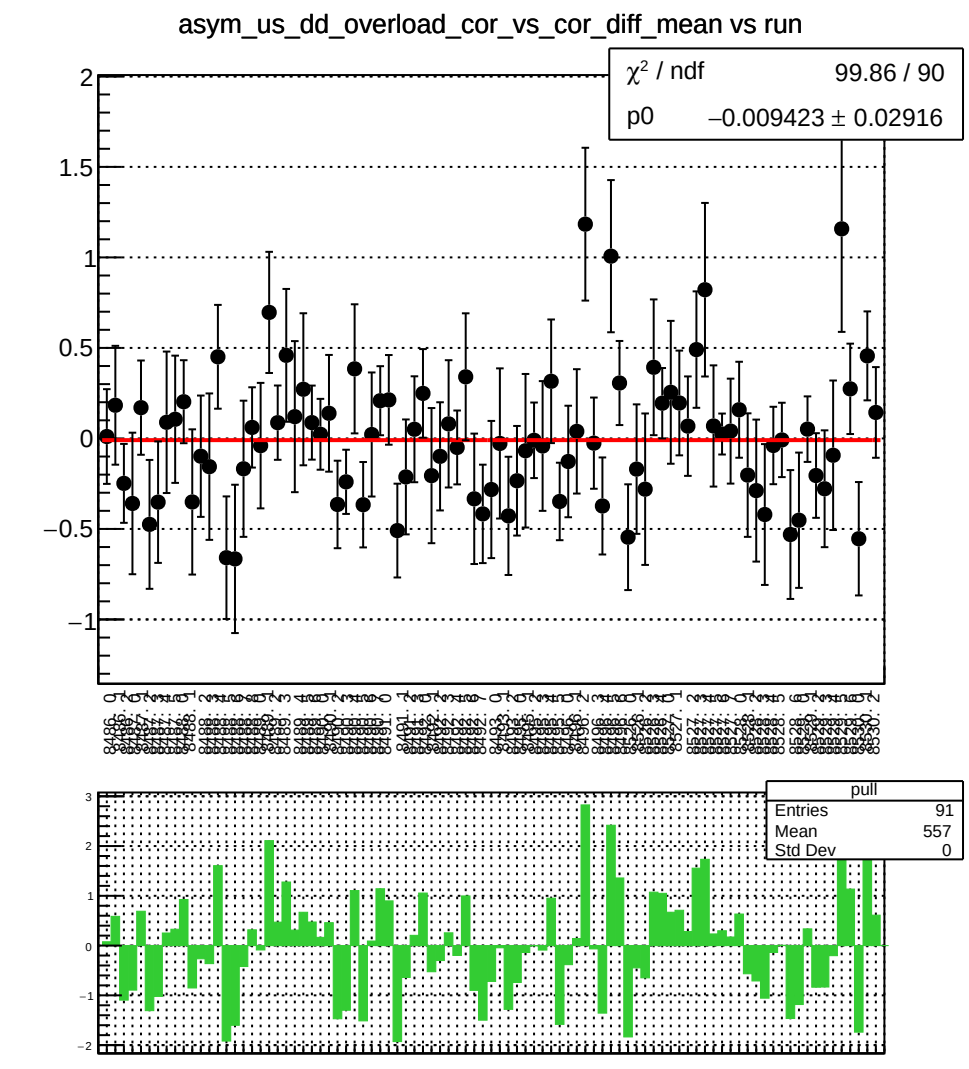

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.402e+05 / 90
p0 20.03 ± 0.01631
40
35
30
25
20
15
10
5

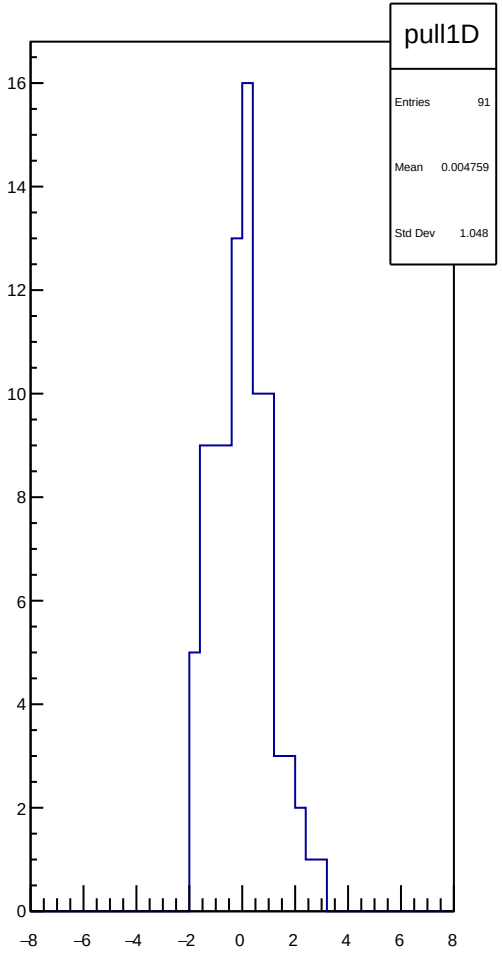

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 97.41 / 90
p0 0.02496 ± 0.04034
pull
Entries 91
Mean 26.57
Std Dev 36.83
pull1D
Entries 91
Mean −0.01006
Std Dev 1.035

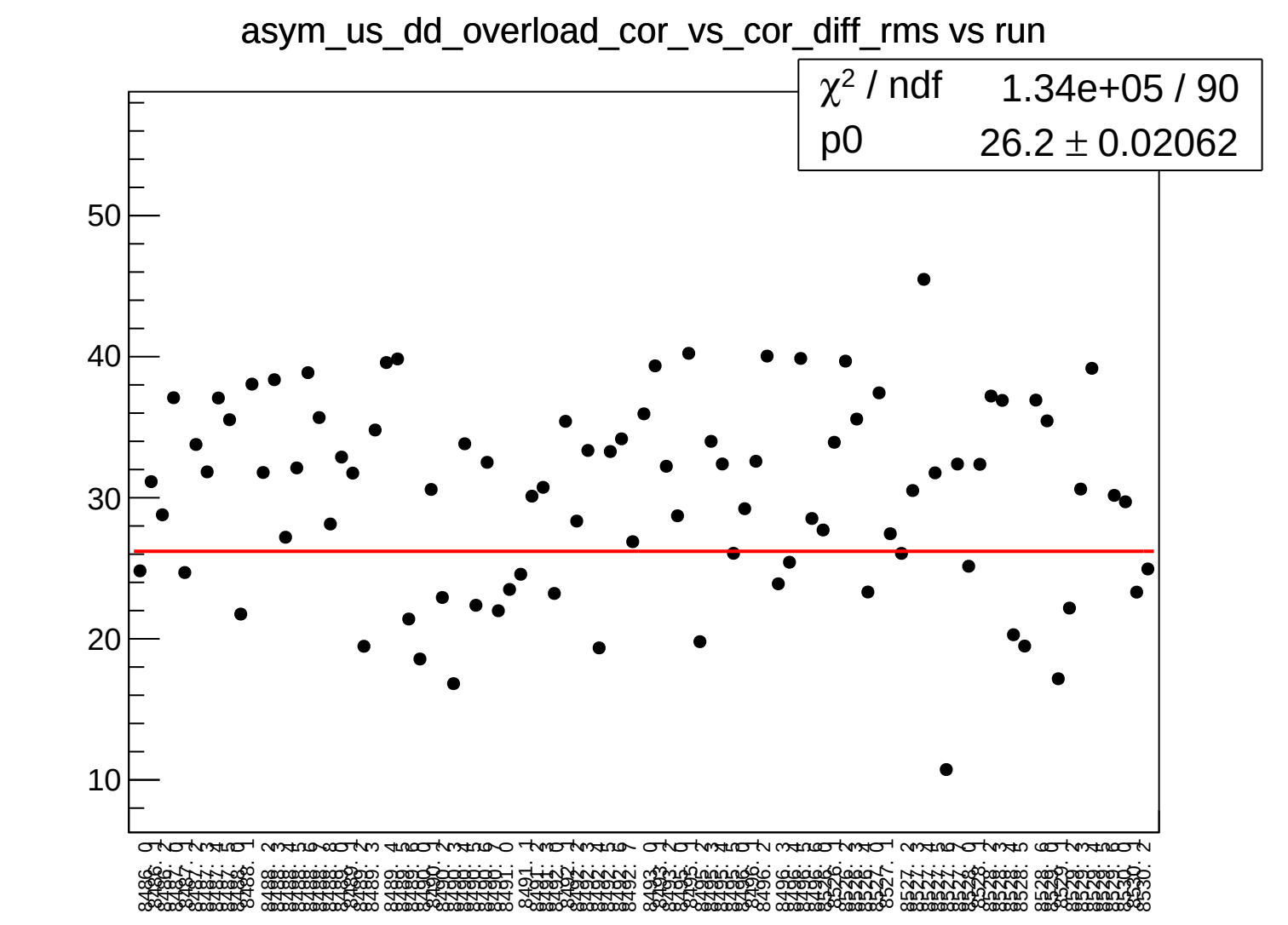

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 8.074e+04 / 90
p0 36.84 ± 0.02852
60
50
40
30
20

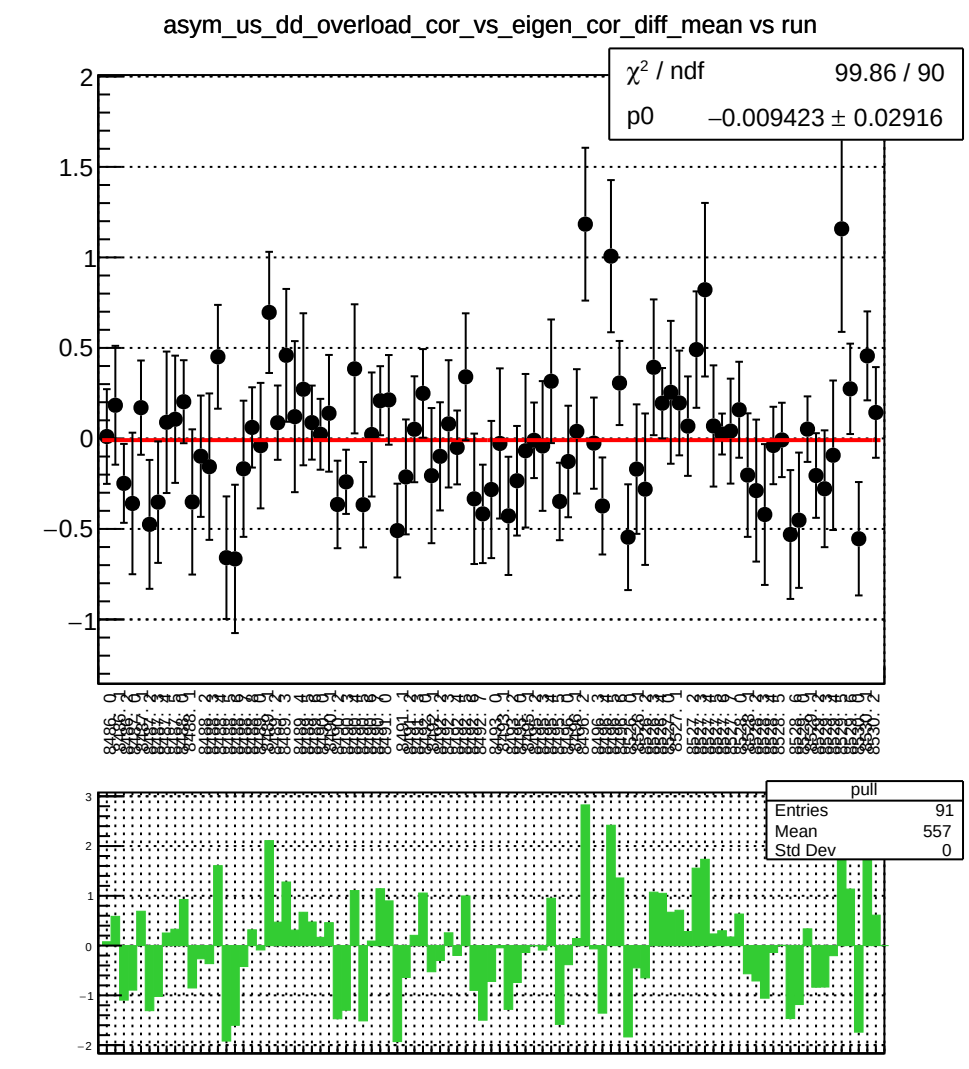

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.23 / 90
p0 1.345e−13 ± 7.01e−14
pull
Entries 91
Mean 91.35
Std Dev 0
pull1D
Entries 91
Mean −0.02926
Std Dev 0.9148

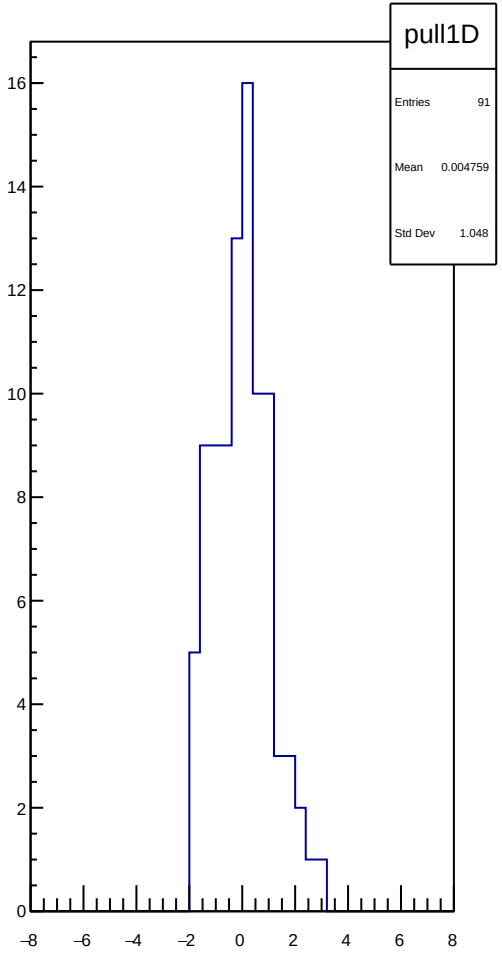

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.3
0.25
0.2
0.15
0.1
0.05
χ² / ndf 4.182e+05 / 90
p0 5.719e−11 ± 4.957e−14

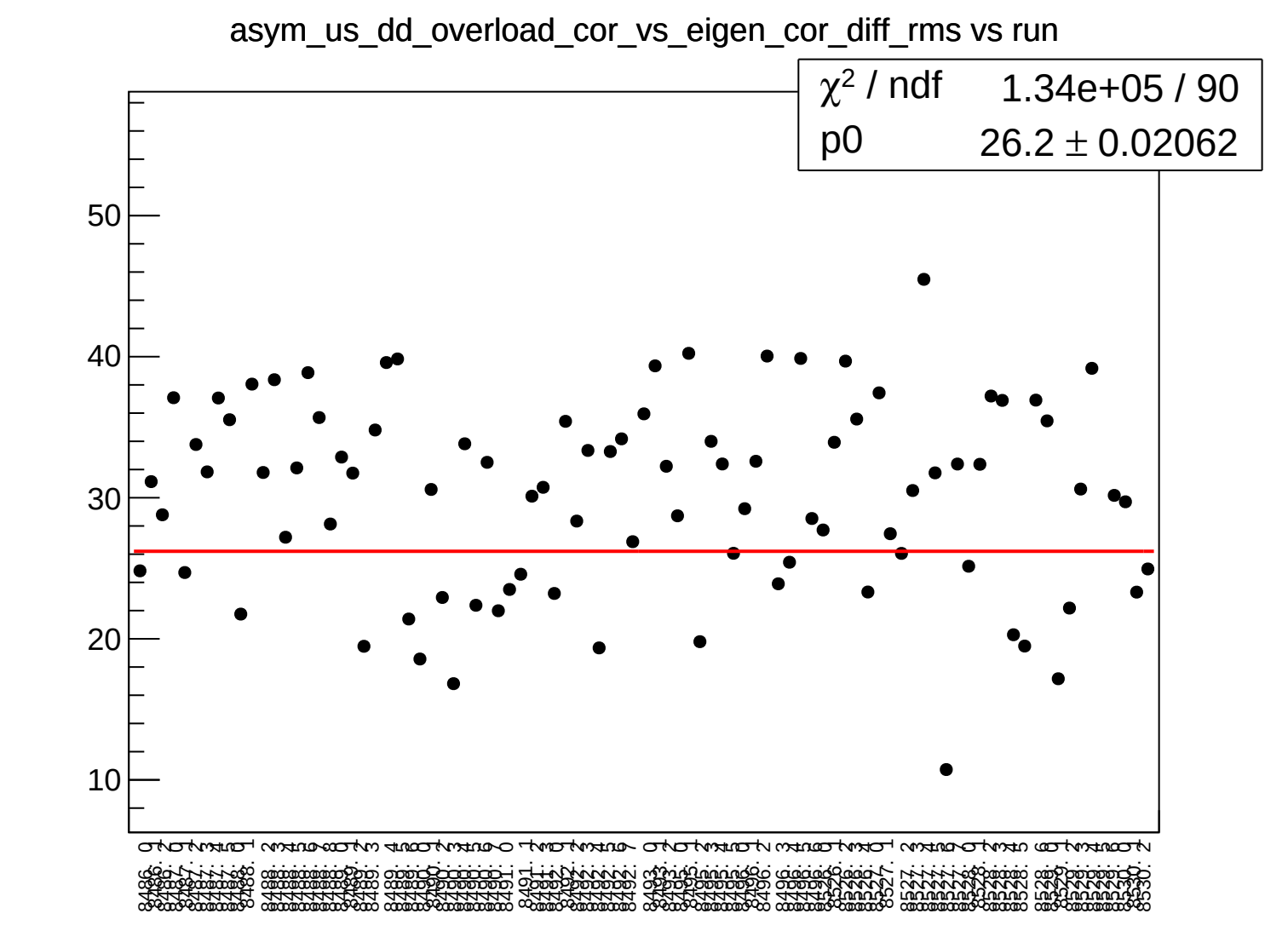

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 99.86 / 90
p0 −0.009423 ± 0.02916
pull
Entries 91
Mean 557
Std Dev 0

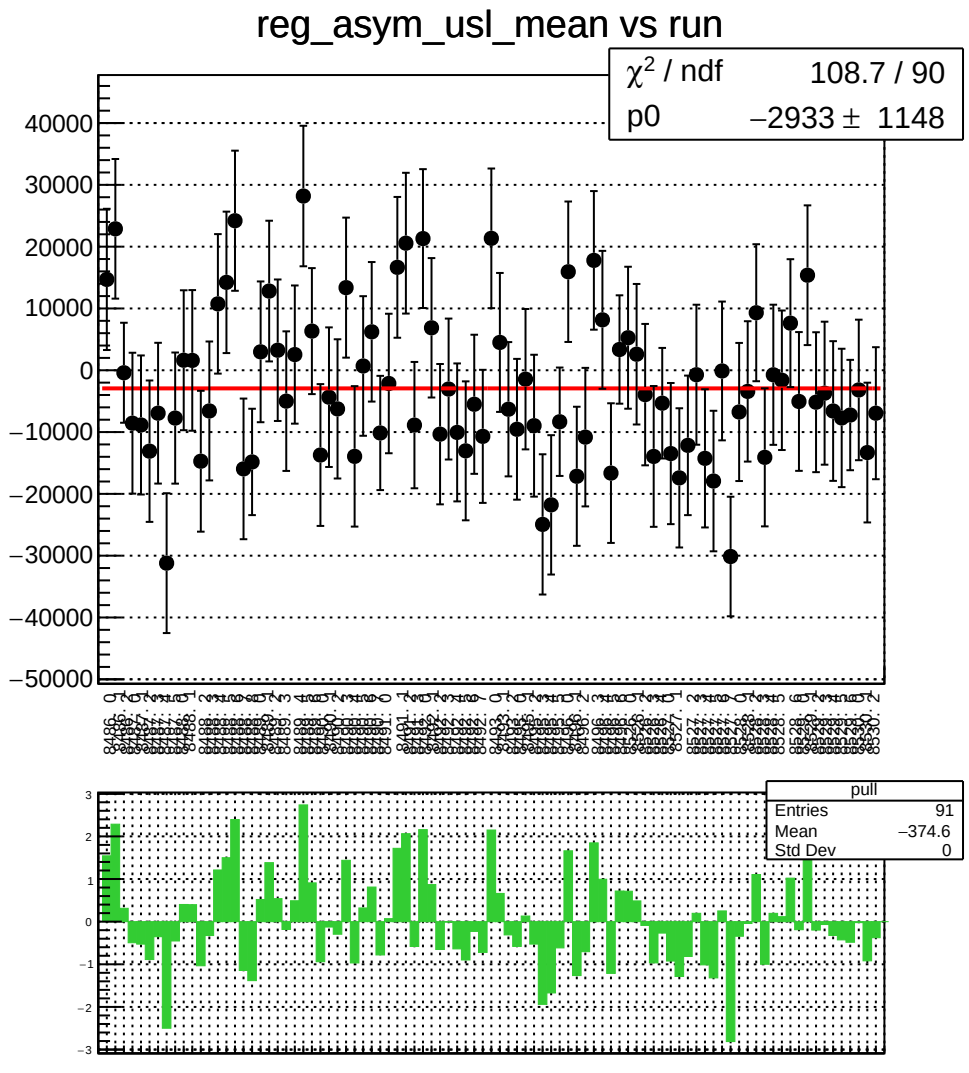

pull1D
Entries 91
Mean 0.004759
Std Dev 1.048

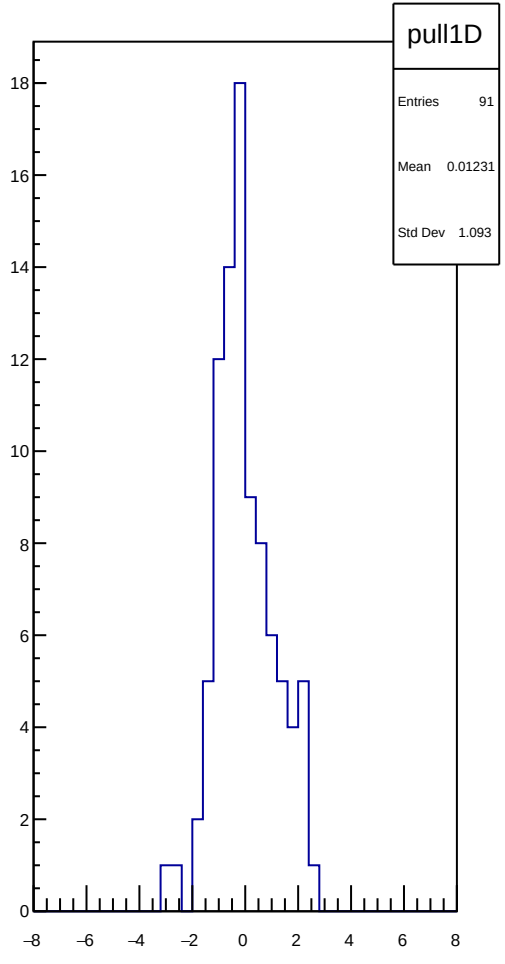

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.34e+05 / 90
p0 26.2 ± 0.02062
50
40
30
20
10

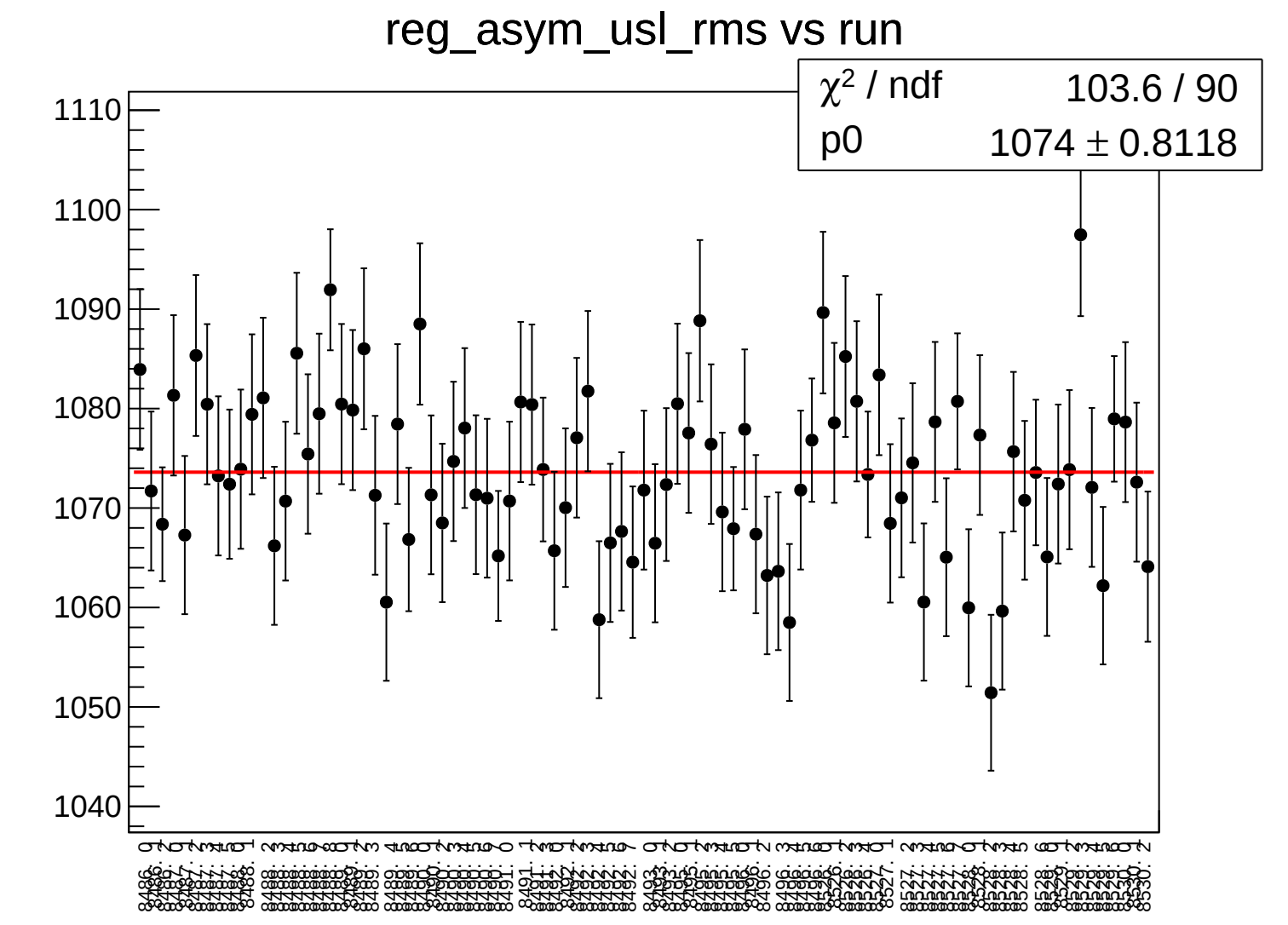

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.86 / 90
p0 −0.009423 ± 0.02916
pull
Entries 91
Mean 557
Std Dev 0

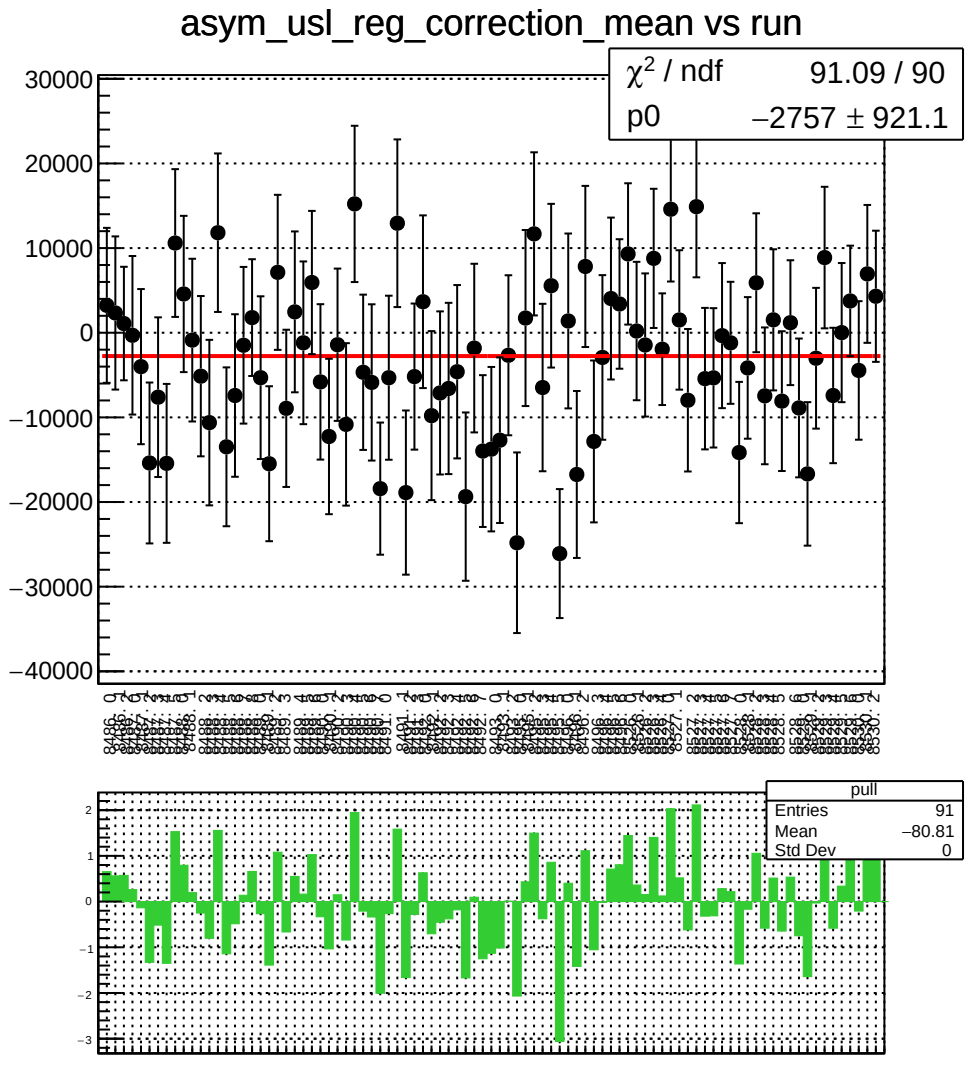

pull1D
Entries 91
Mean 0.004759
Std Dev 1.048

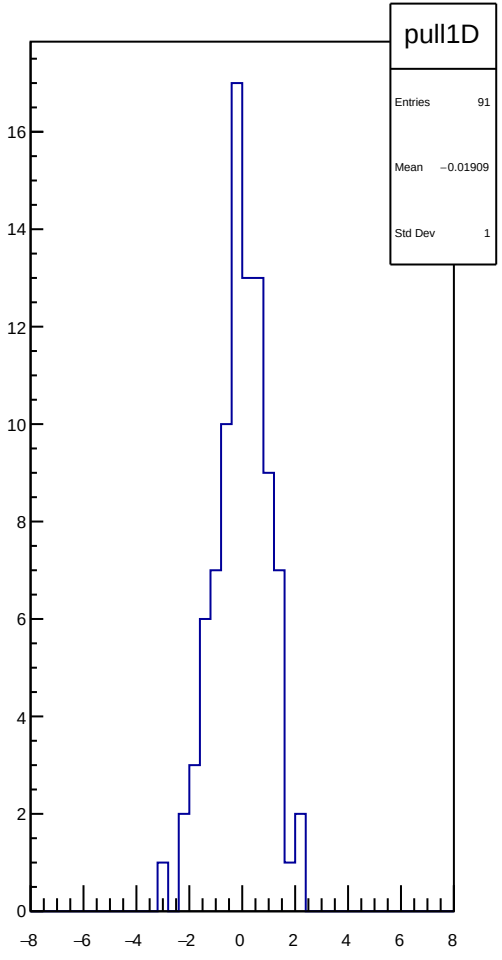

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.34e+05 / 90
p0 26.2 ± 0.02062
50
40
30
20
10

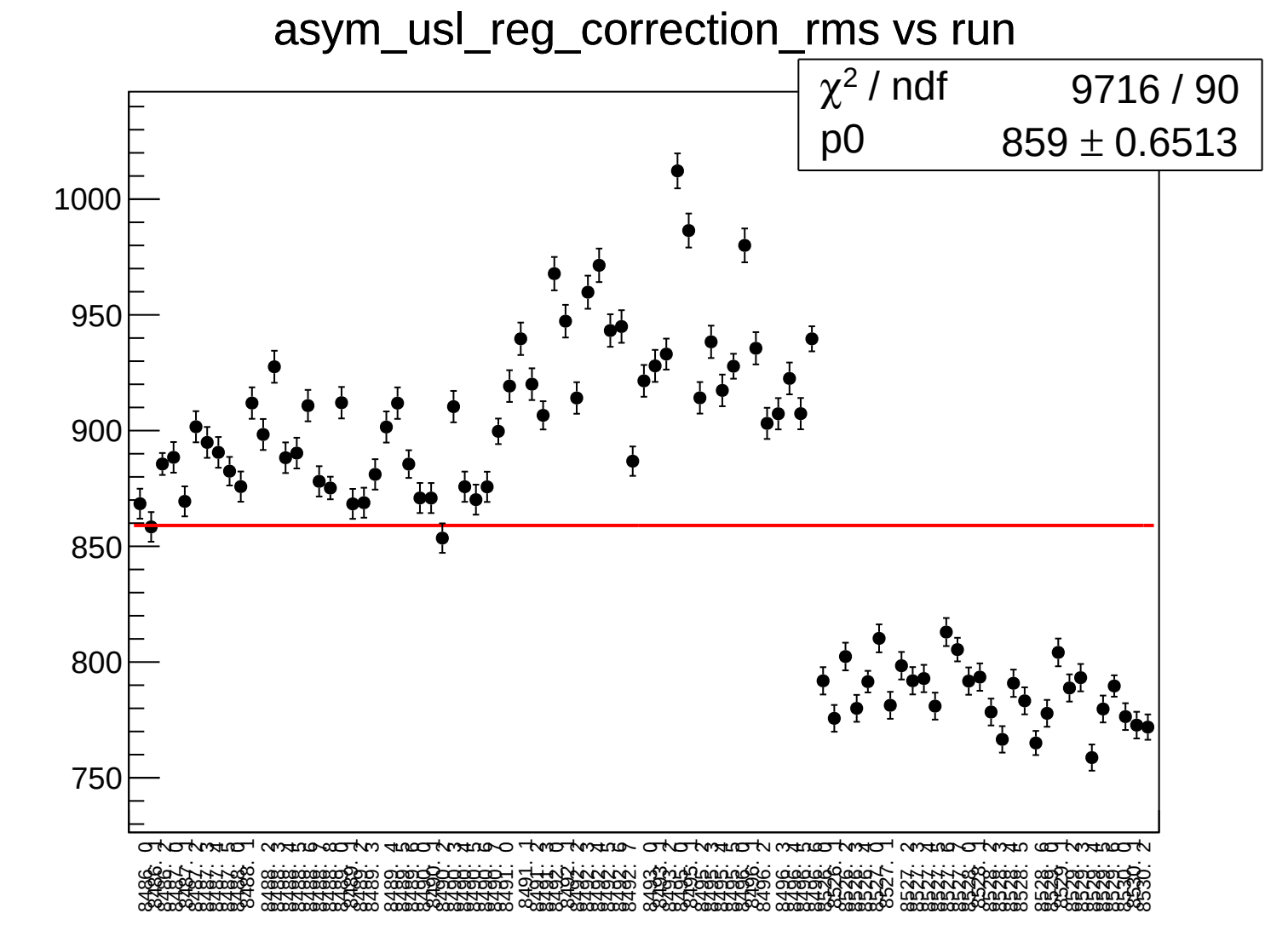

reg_asym_usl_mean vs run
χ² / ndf 108.7 / 90
p0 −2933 ± 1148
pull
Entries 91
Mean −374.6
Std Dev 0

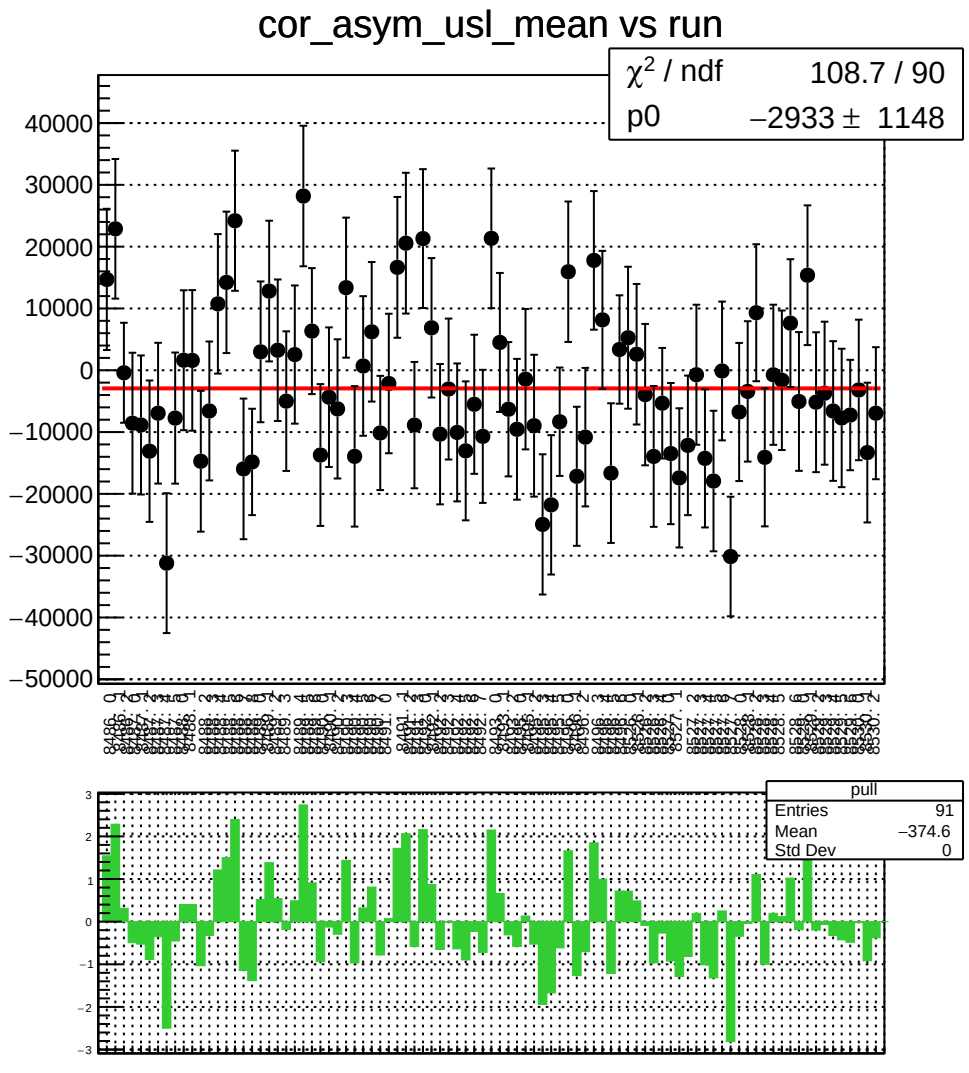

pull1D
Entries 91
Mean 0.01231
Std Dev 1.093

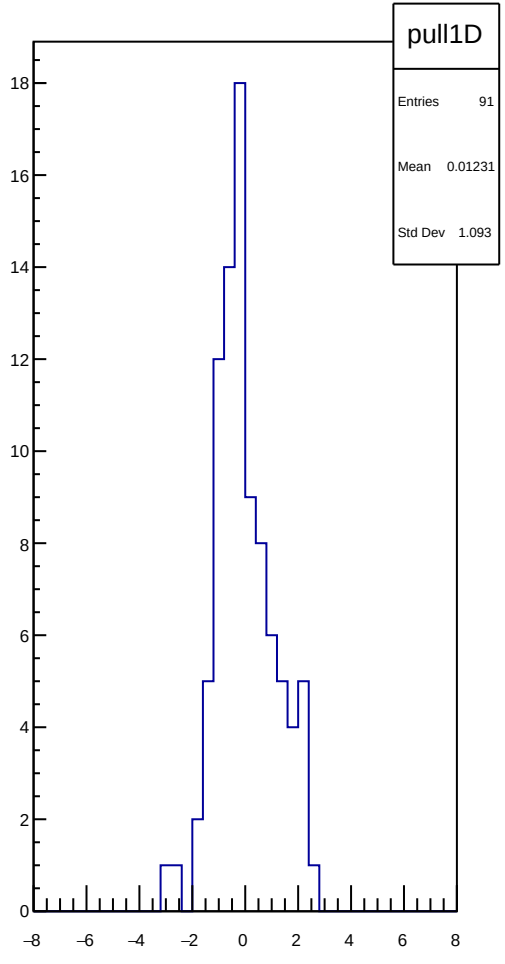

reg_asym_usl_rms vs run
χ² / ndf 103.6 / 90
p0 1074 ± 0.8118
1110
1100
1090
1080
1070
1060
1050
1040

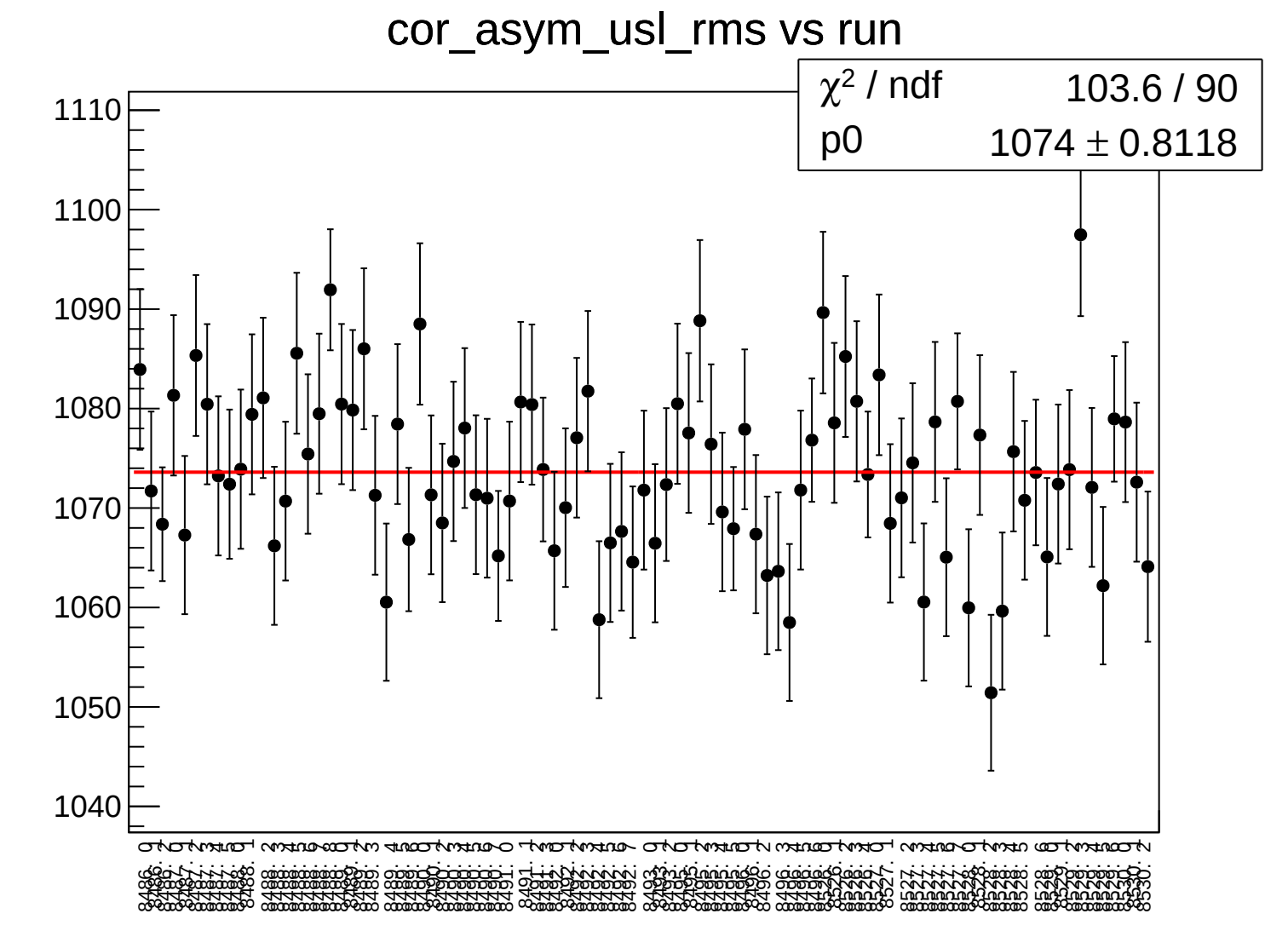

asym_usl_reg_correction_mean vs run
χ² / ndf 91.09 / 90
p0 −2757 ± 921.1
pull
Entries 91
Mean −80.81
Std Dev 0

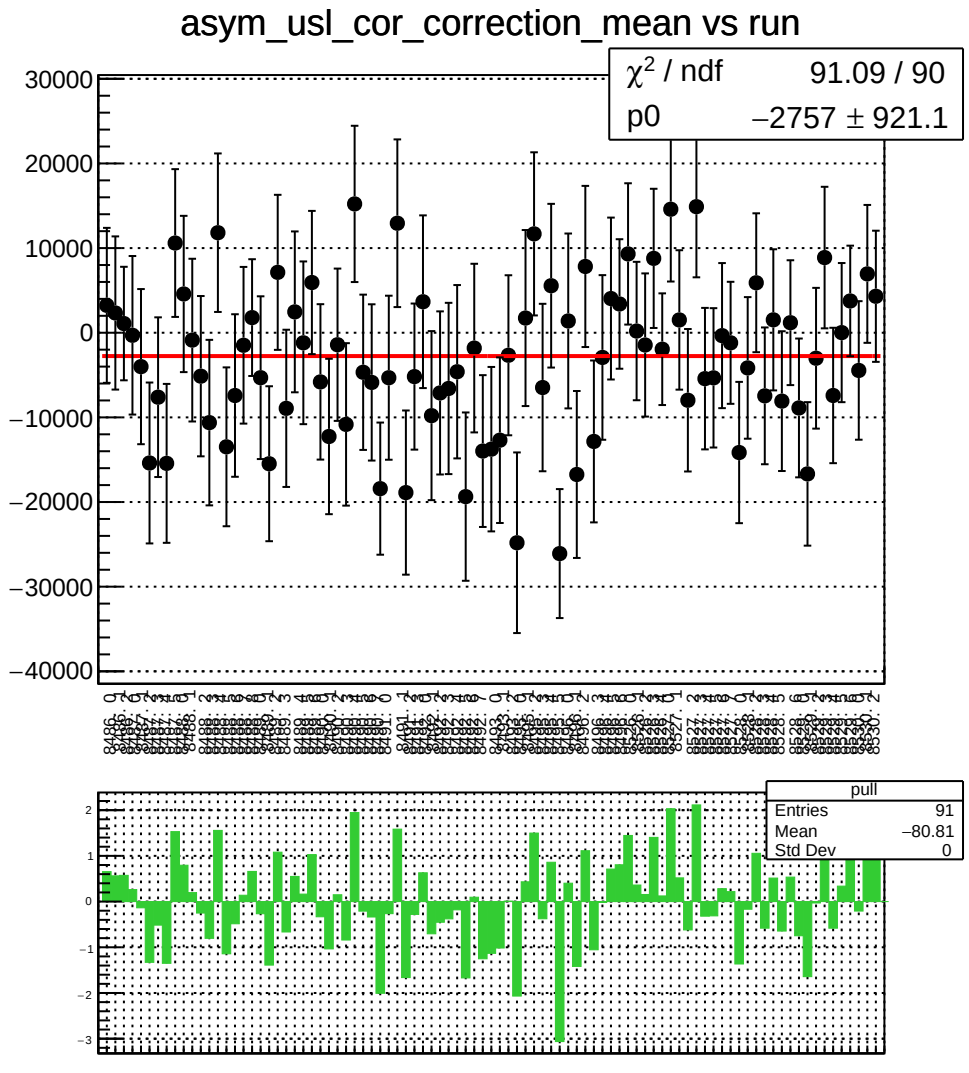

pull1D
Entries 91
Mean −0.01909
Std Dev 1

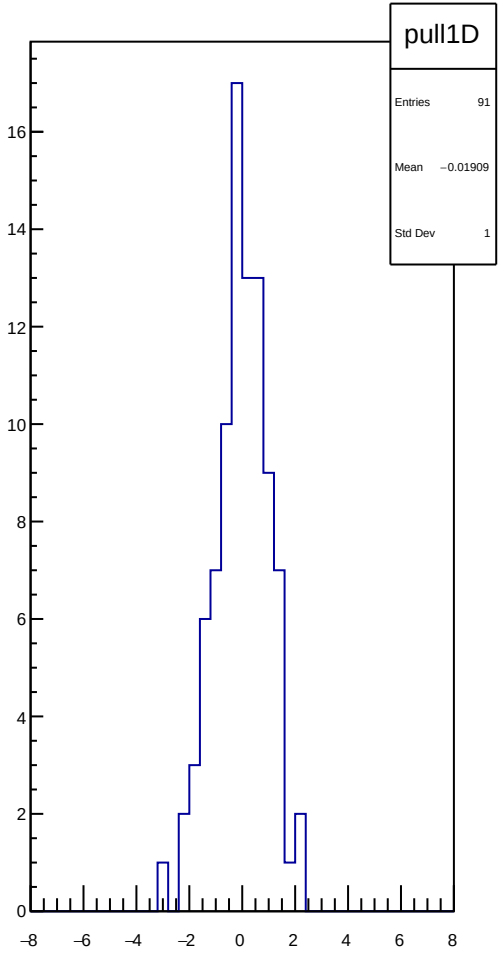

asym_usl_reg_correction_rms vs run
χ² / ndf 9716 / 90
p0 859 ± 0.6513
1000
950
900
850
800
750

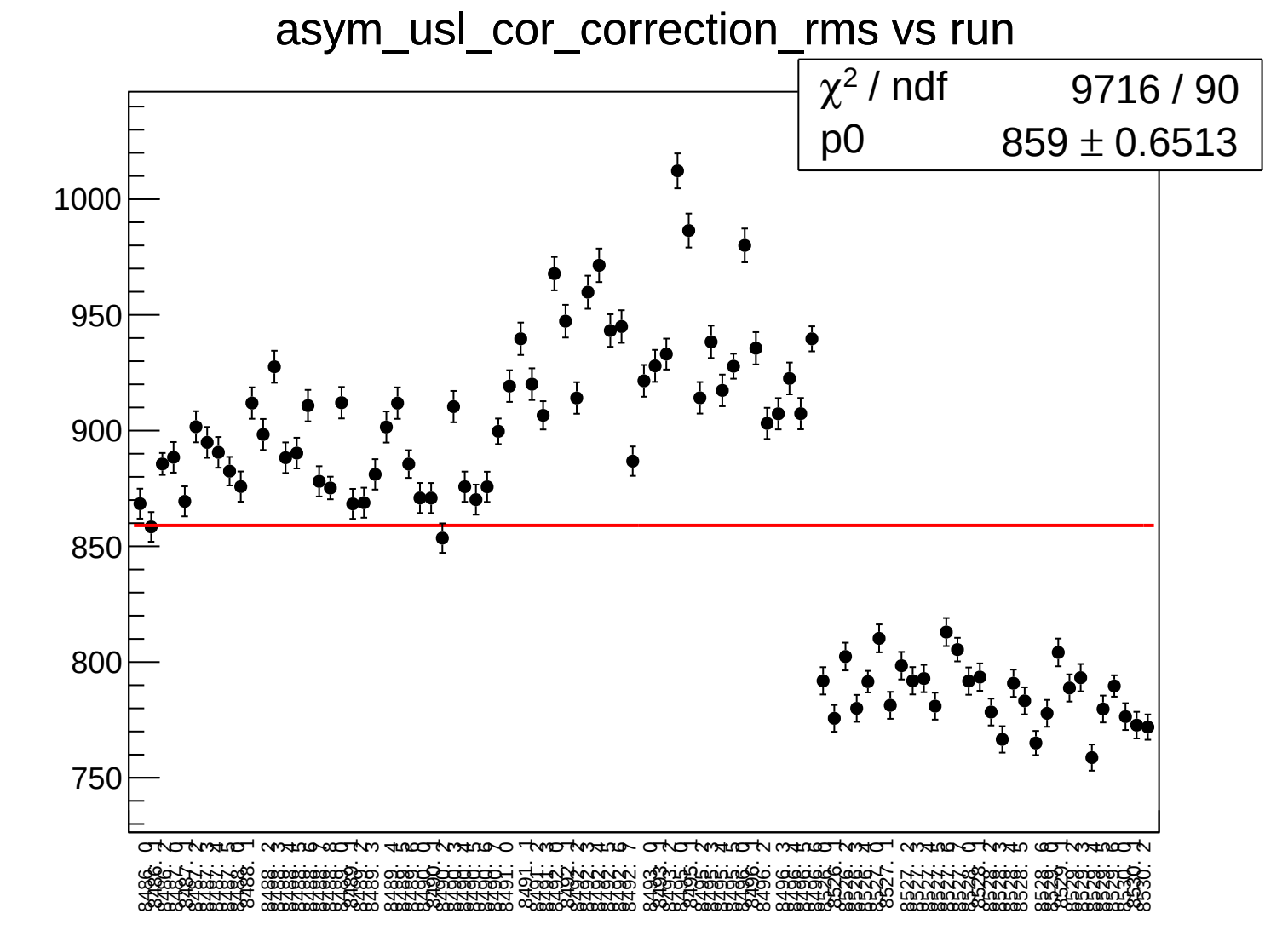

cor_asym_usl_mean vs run
χ² / ndf 108.7 / 90
p0 −2933 ± 1148
pull
Entries 91
Mean −374.6
Std Dev 0

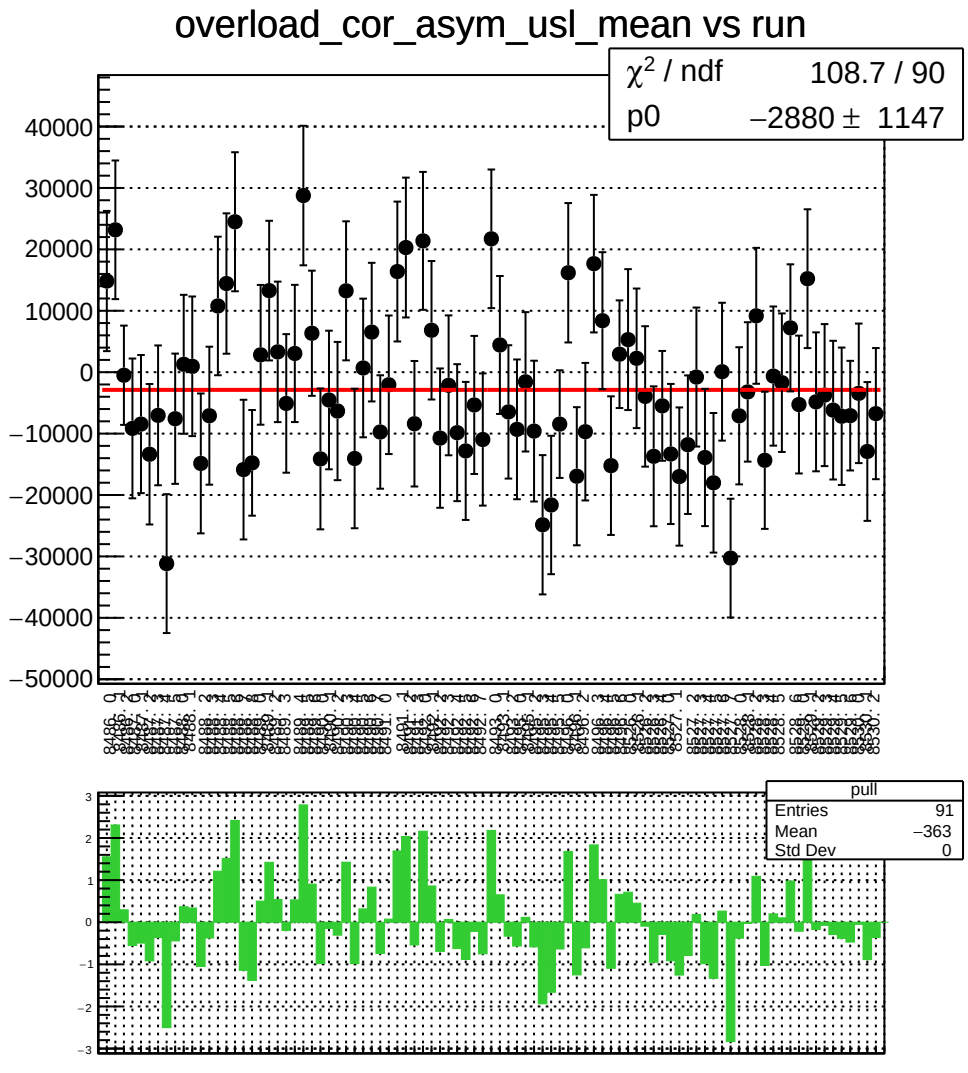

pull1D
Entries 91
Mean 0.01231
Std Dev 1.093

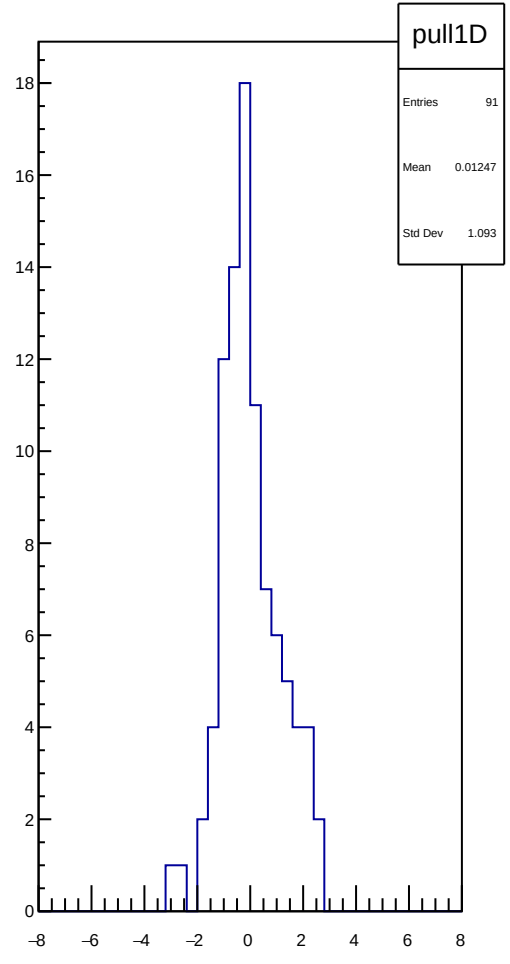

cor_asym_usl_rms vs run
χ² / ndf 103.6 / 90
p0 1074 ± 0.8118
1110
1100
1090
1080
1070
1060
1050
1040

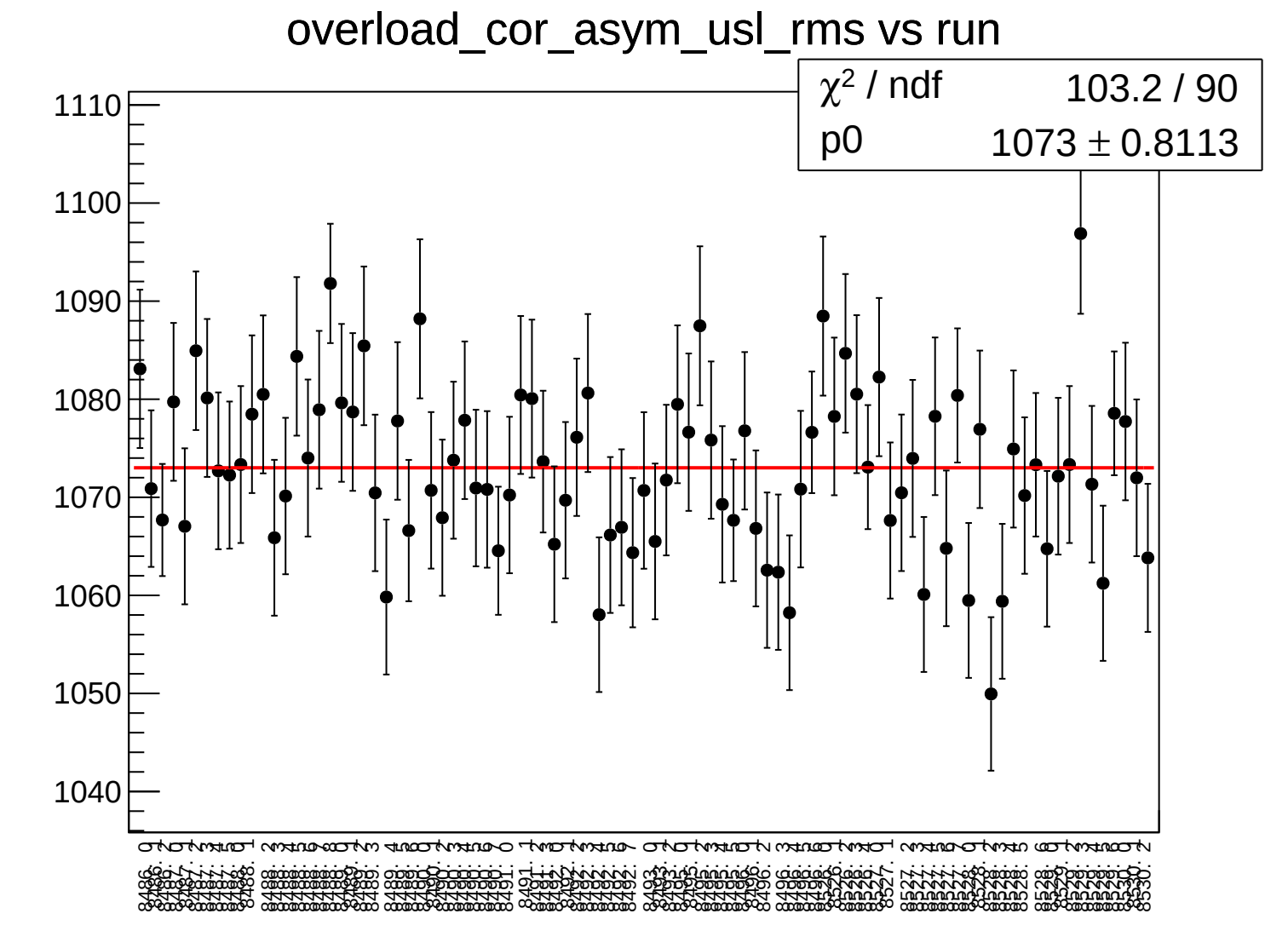

asym_usl_cor_correction_mean vs run
χ² / ndf 91.09 / 90
p0 −2757 ± 921.1
pull
Entries 91
Mean −80.81
Std Dev 0

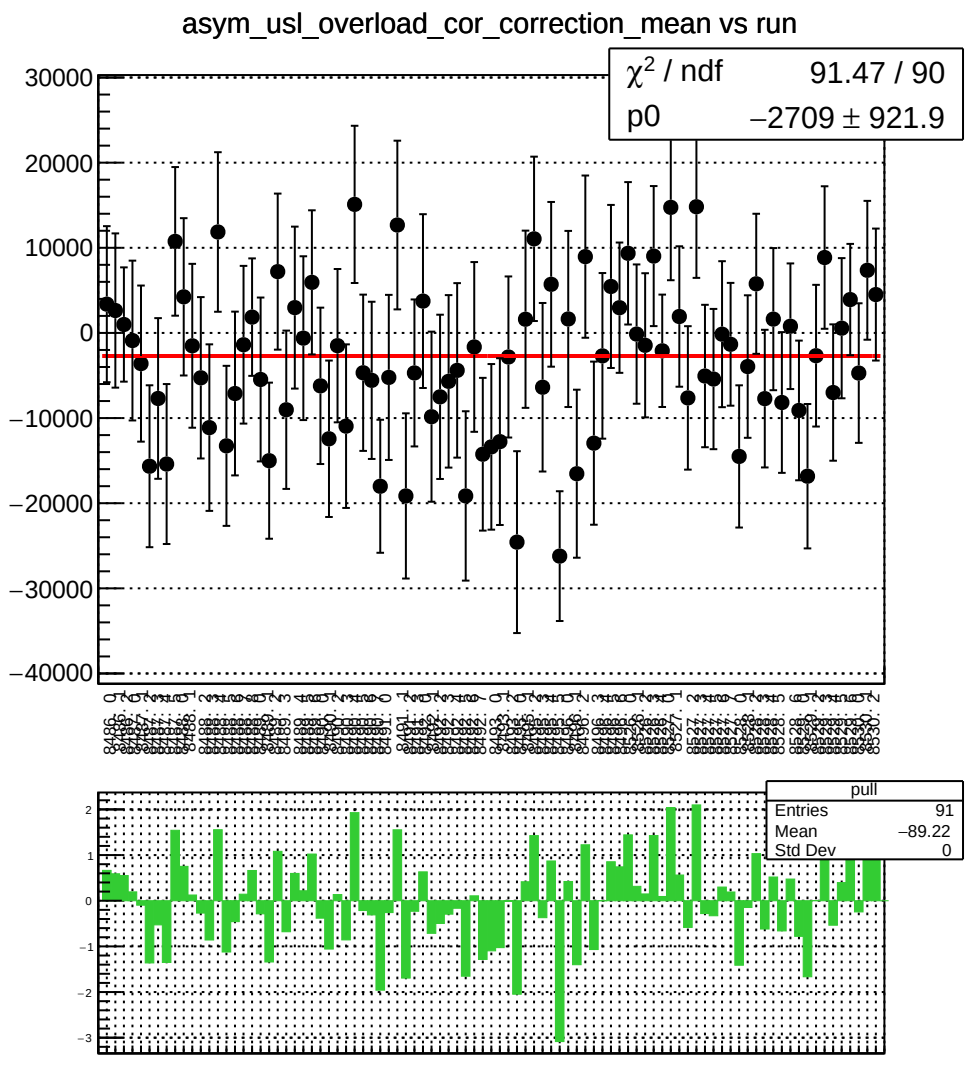

pull1D
Entries 91
Mean −0.01909
Std Dev 1

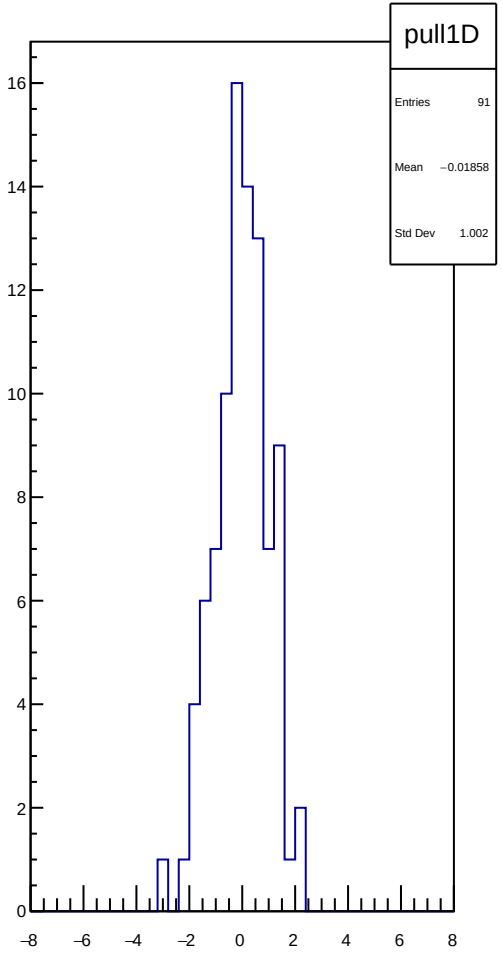

asym_usl_cor_correction_rms vs run
χ² / ndf 9716 / 90
p0 859 ± 0.6513
1000
950
900
850
800
750

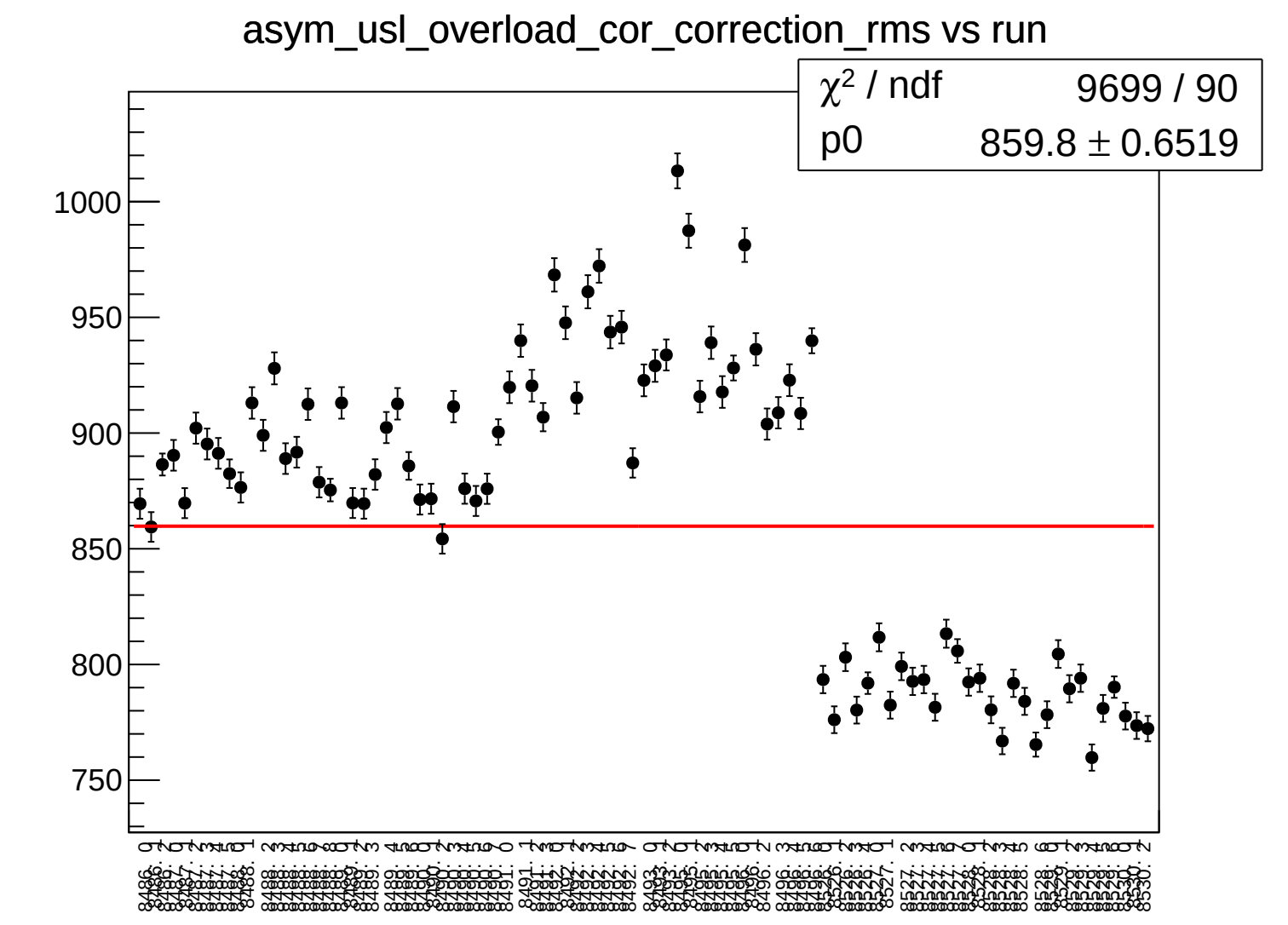

overload_cor_asym_usl_mean vs run
χ² / ndf 108.7 / 90
p0 −2880 ± 1147
pull
Entries 91
Mean −363
Std Dev 0

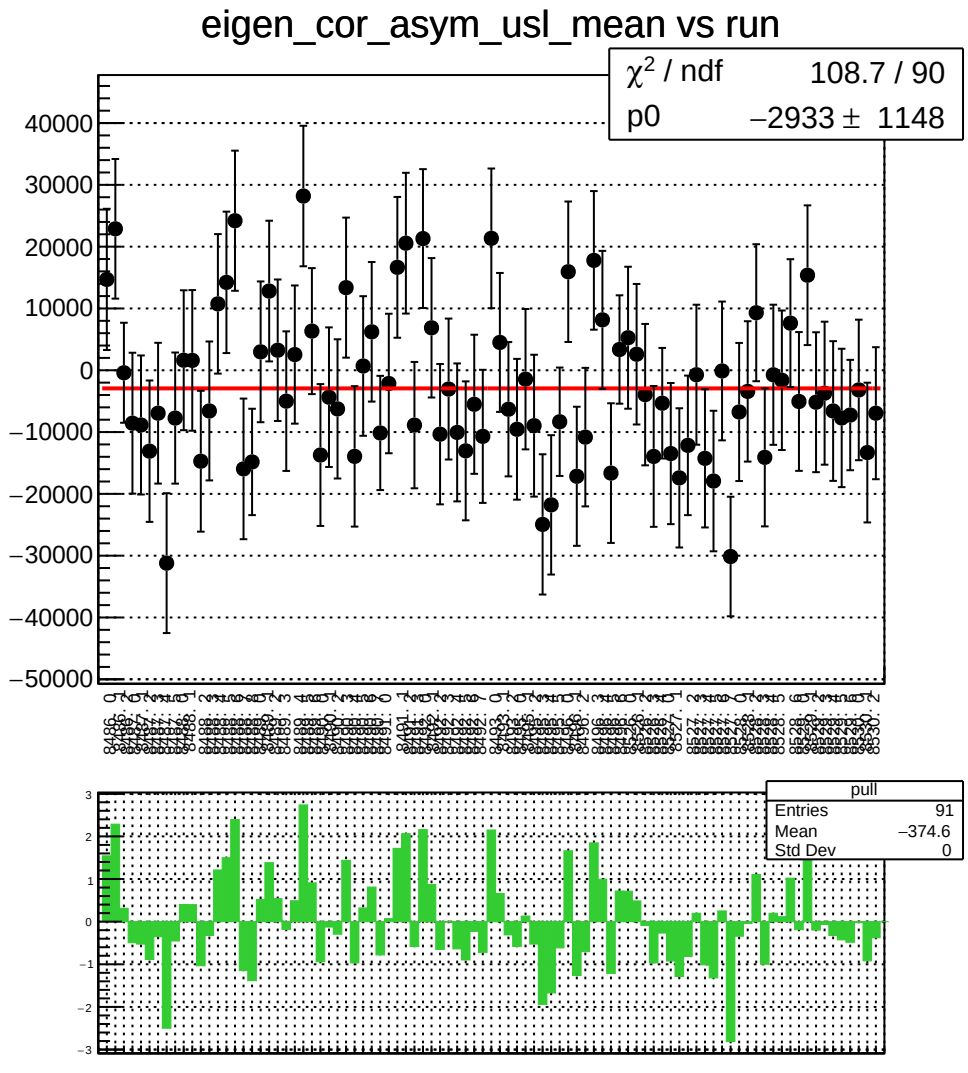

pull1D
Entries 91
Mean 0.01247
Std Dev 1.093

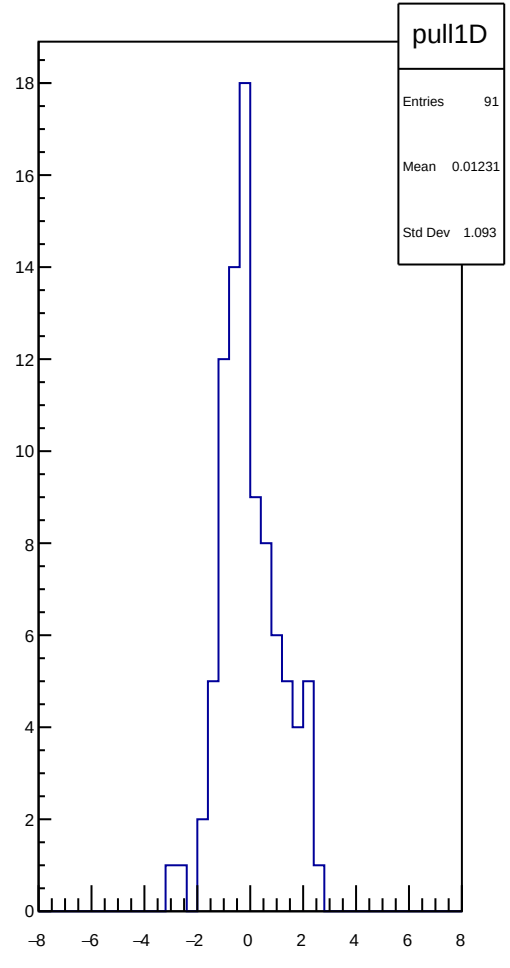

overload_cor_asym_usl_rms vs run
χ^2 / ndf 103.2 / 90
p0 1073 ± 0.8113
1110
1100
1090
1080
1070
1060
1050
1040

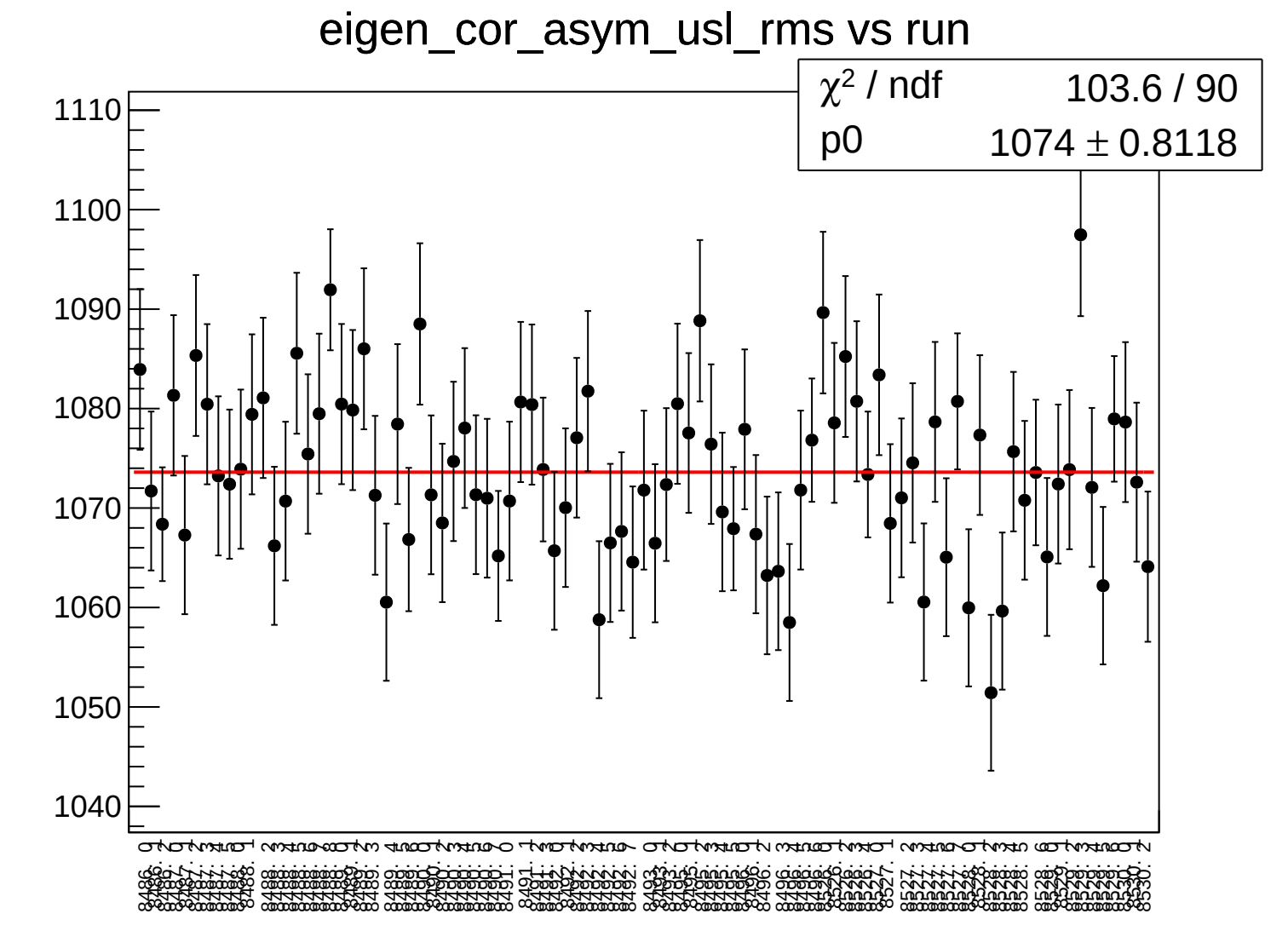

asym_usl_overload_cor_correction_mean vs run
χ² / ndf 91.47 / 90
p0 −2709 ± 921.9
pull
Entries 91
Mean −89.22
Std Dev 0

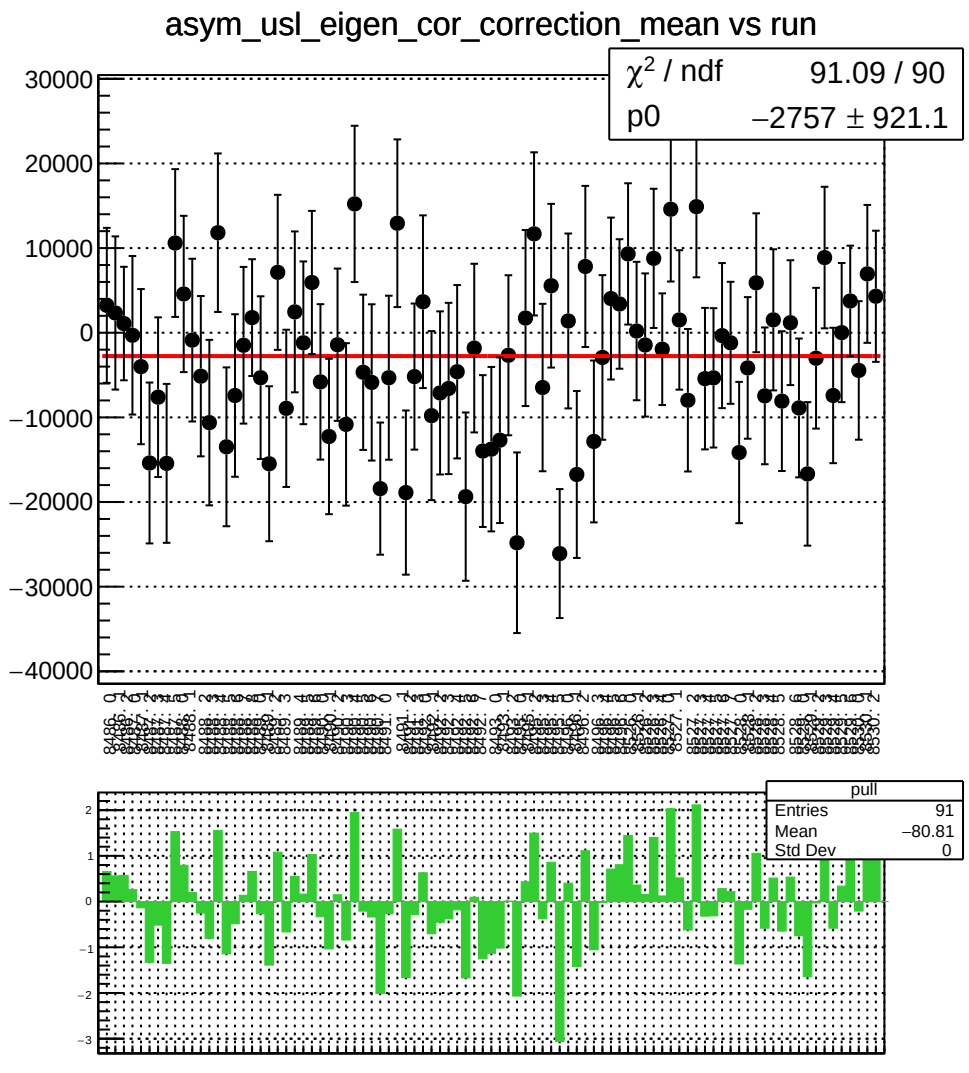

pull1D
Entries 91
Mean −0.01858
Std Dev 1.002

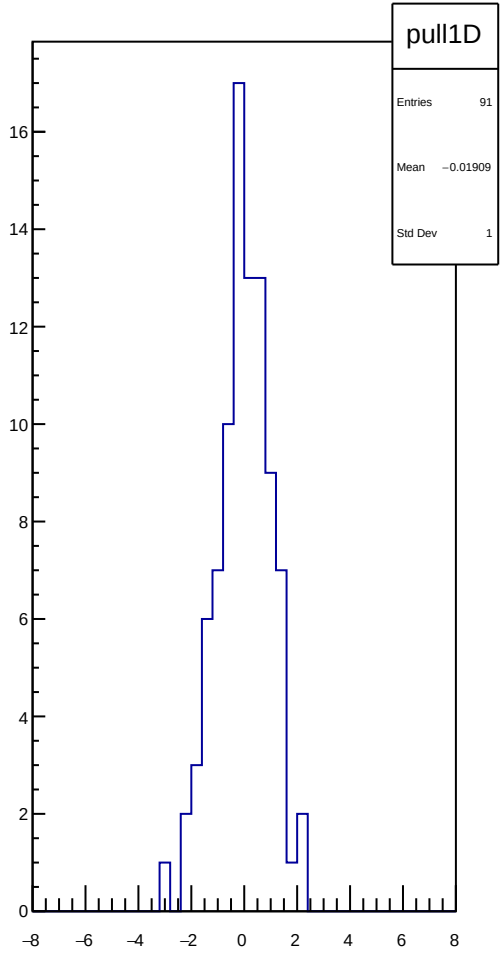

asym_usl_overload_cor_correction_rms vs run
χ² / ndf 9699 / 90
p0 859.8 ± 0.6519
1000
950
900
850
800
750

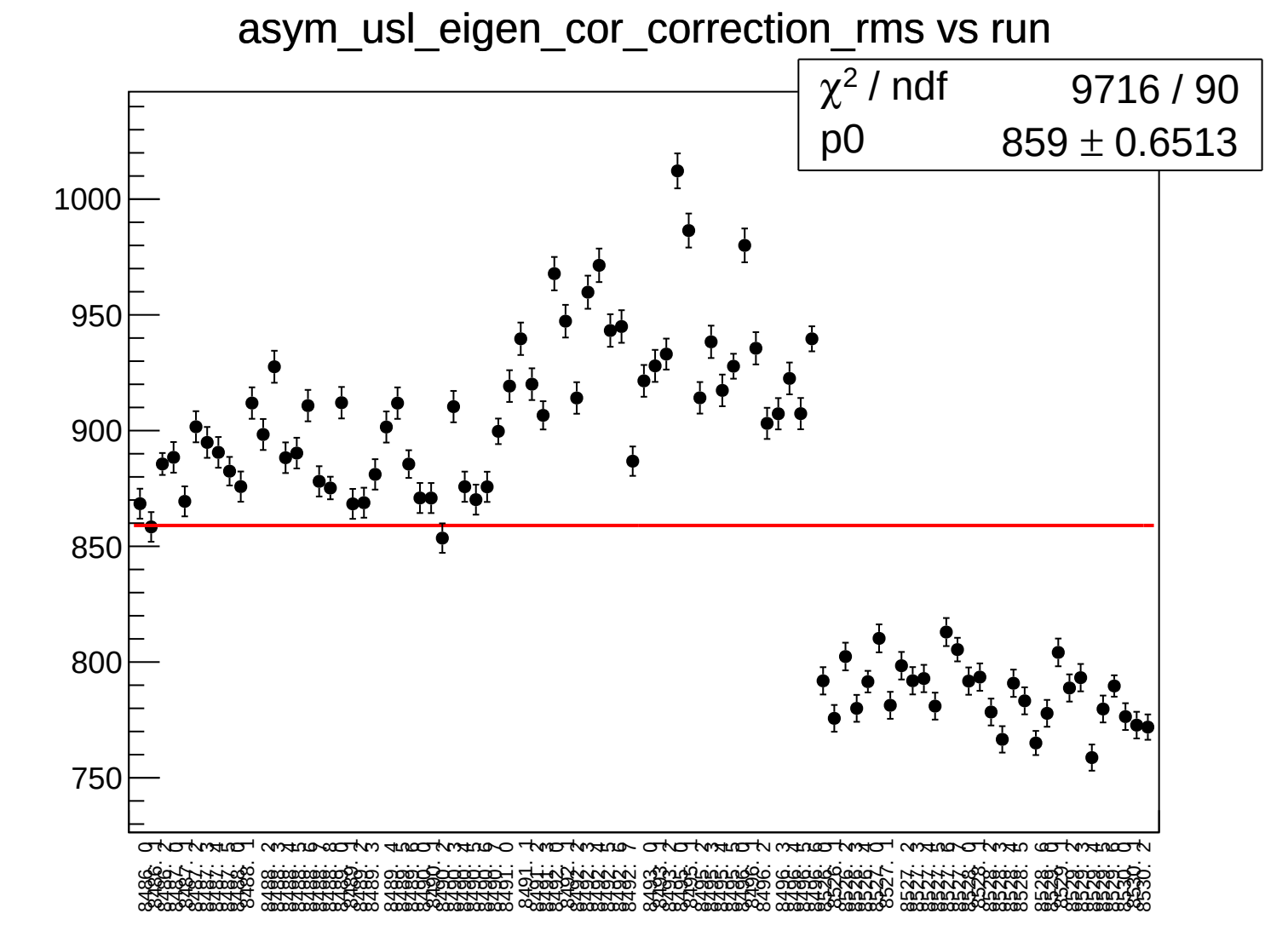

eigen_cor_asym_usl_mean vs run
χ² / ndf 108.7 / 90
p0 −2933 ± 1148
pull
Entries 91
Mean −374.6
Std Dev 0

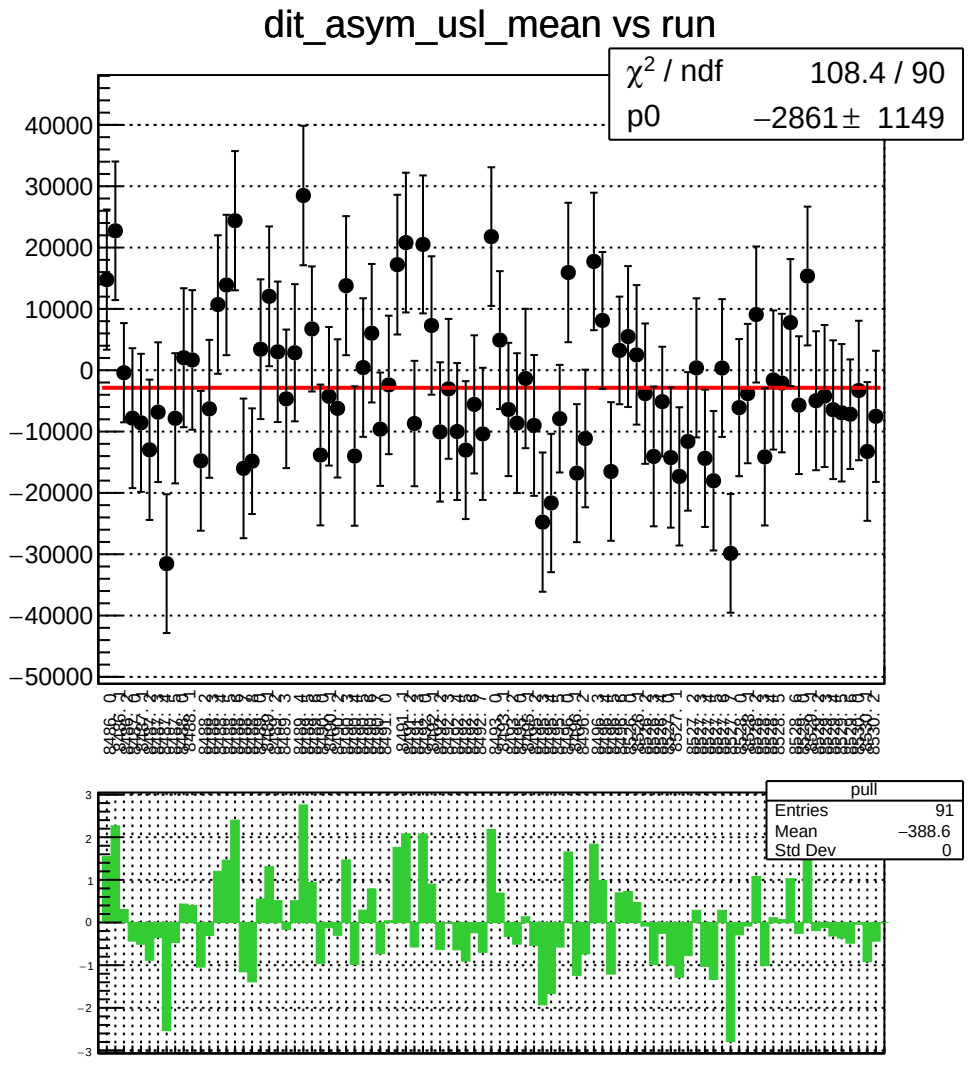

pull1D
Entries 91
Mean 0.01231
Std Dev 1.093

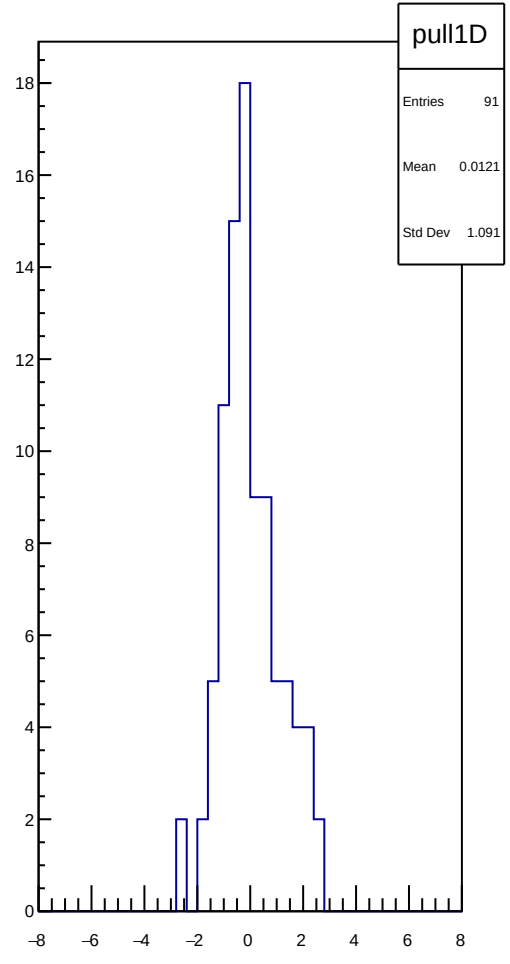

eigen_cor_asym_usl_rms vs run
χ² / ndf 103.6 / 90
p0 1074 ± 0.8118
1110
1100
1090
1080
1070
1060
1050
1040

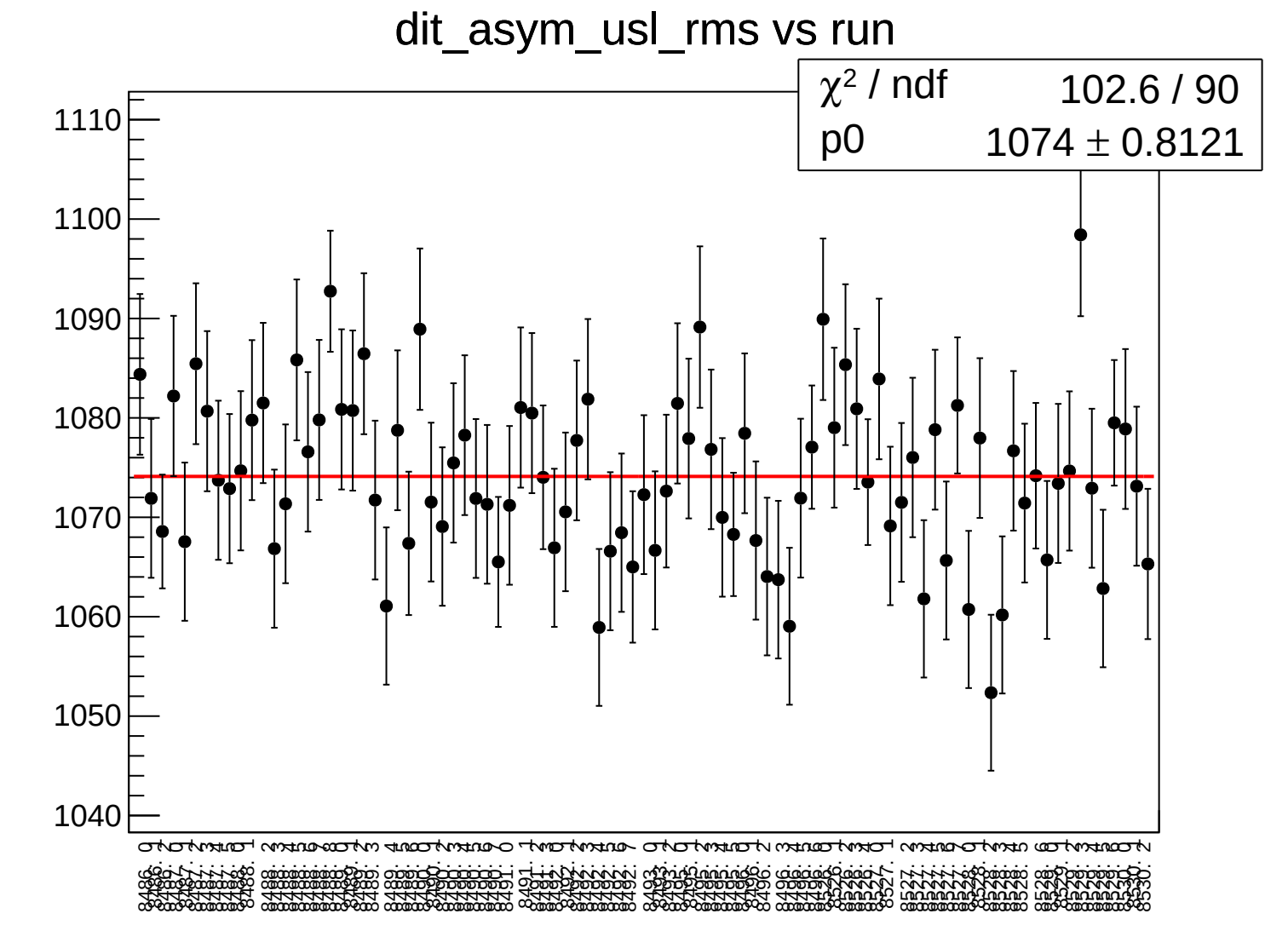

asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 91.09 / 90
p0 −2757 ± 921.1
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean −80.81
Std Dev 0
2
1
0
−1
−2
−3

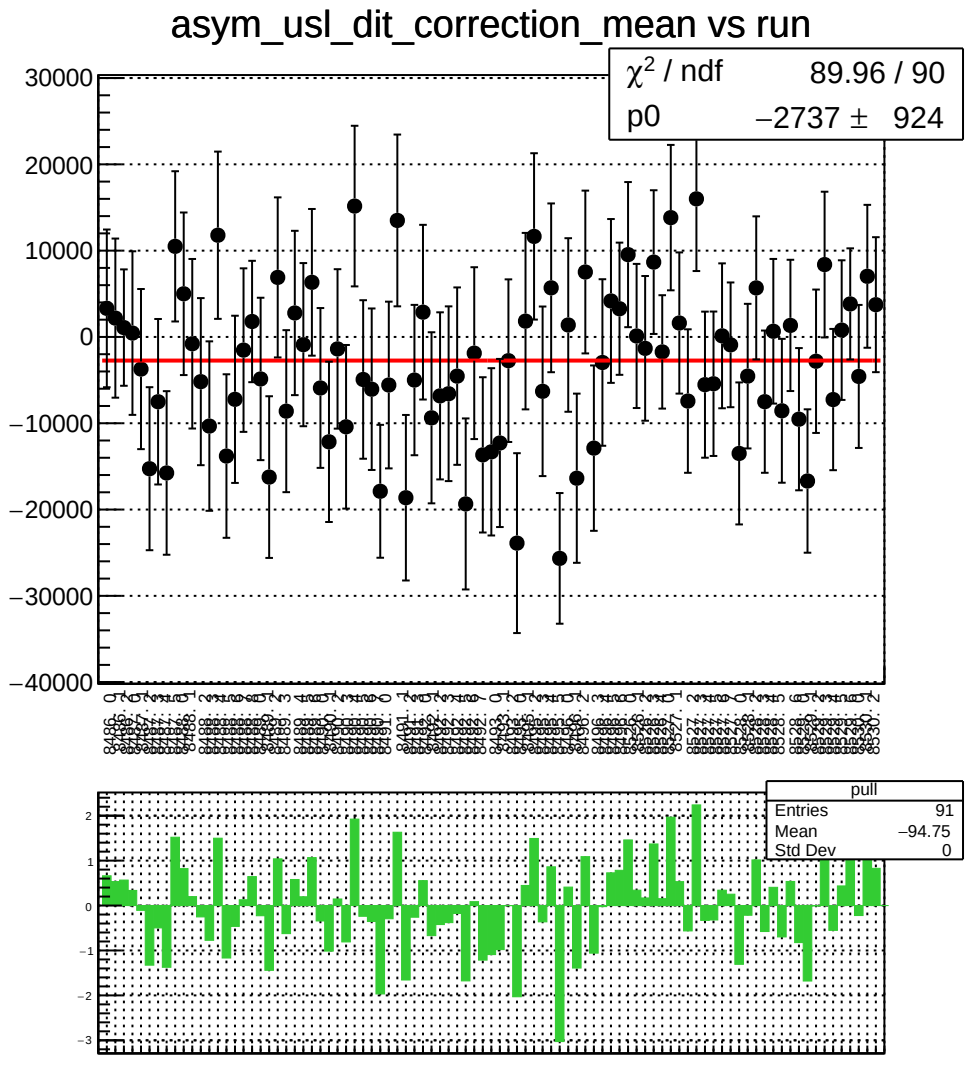

pull1D
Entries 91
Mean −0.01909
Std Dev 1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

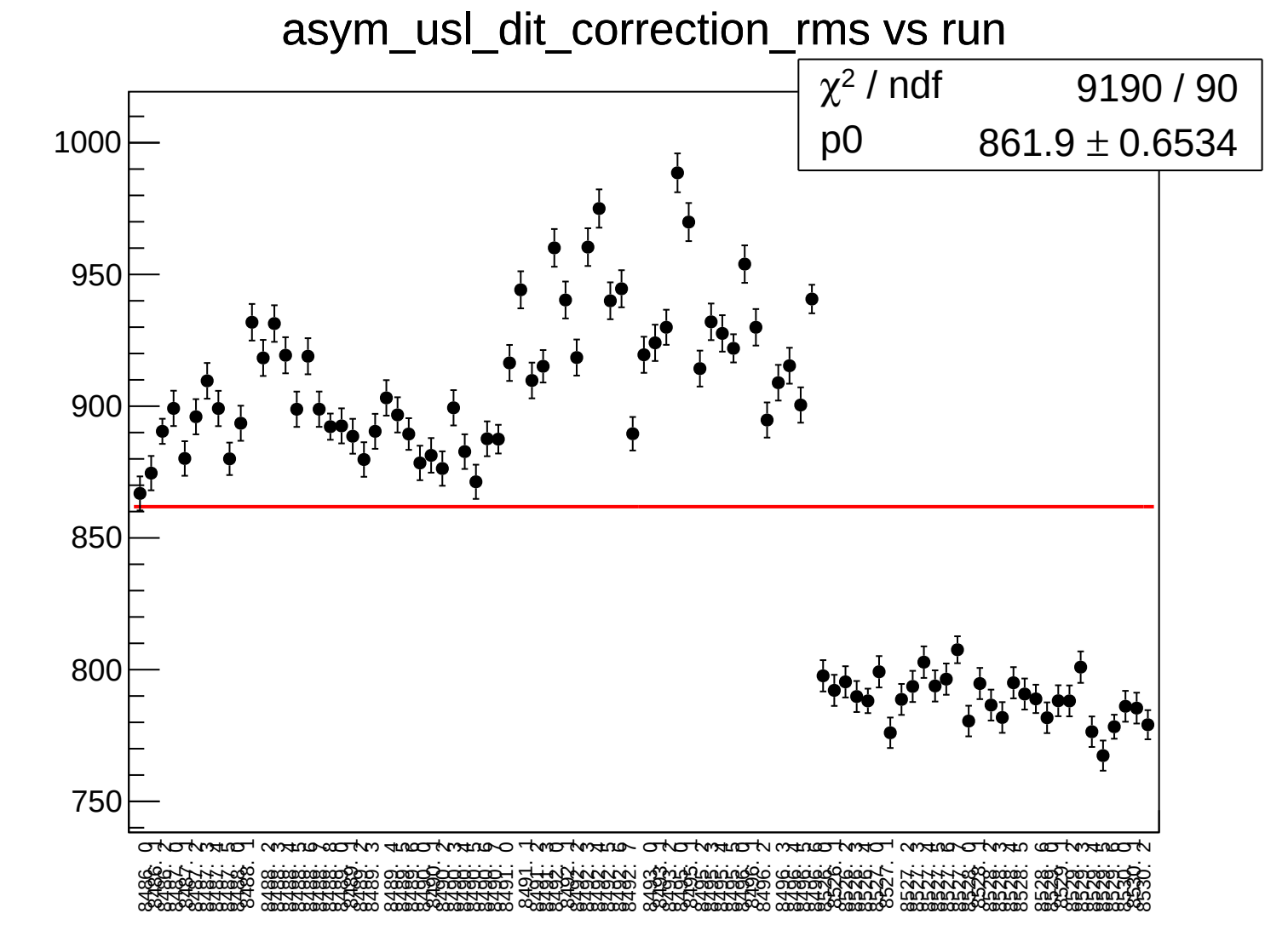

asym_usl_eigen_cor_correction_rms vs run
χ^2 / ndf 9716 / 90
p0 859 ± 0.6513
1000
950
900
850
800
750

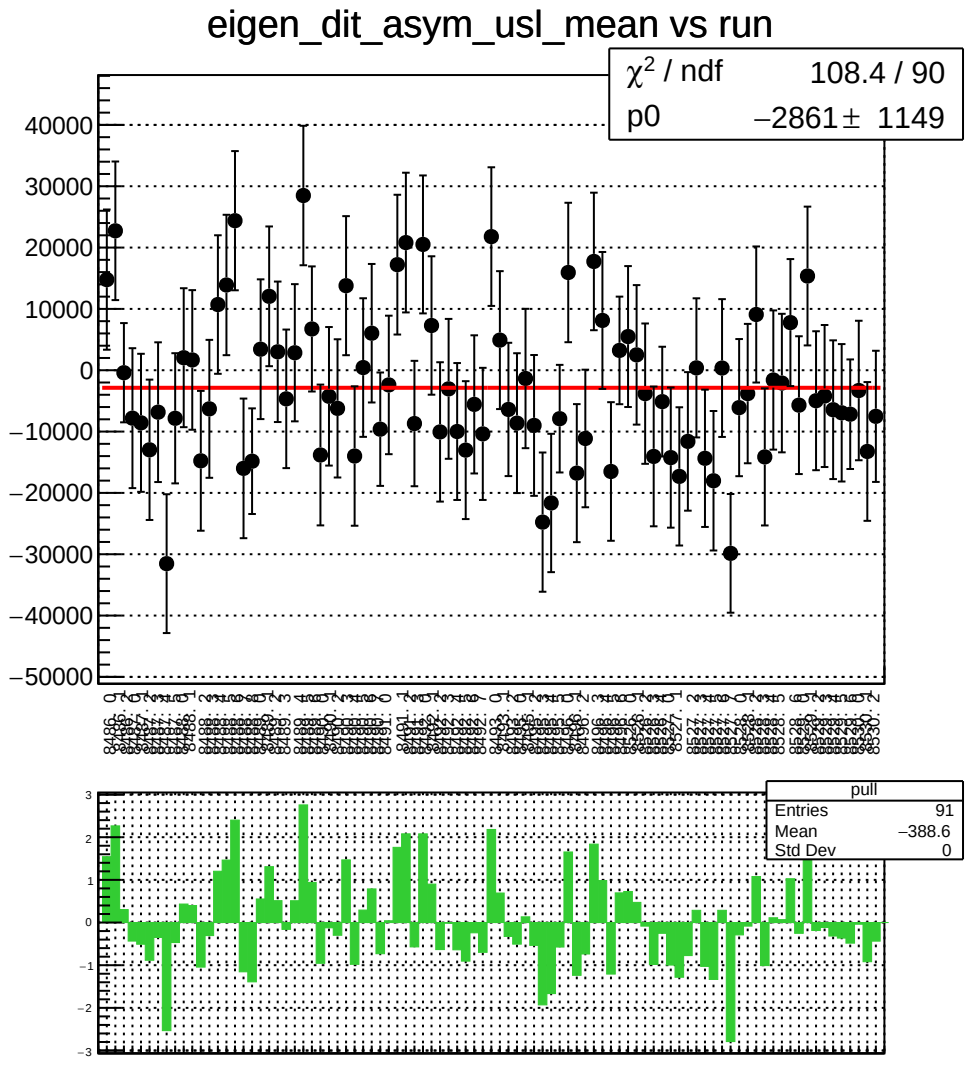

dit_asym_usl_mean vs run
χ² / ndf 108.4 / 90
p0 −2861 ± 1149
pull
Entries 91
Mean −388.6
Std Dev 0

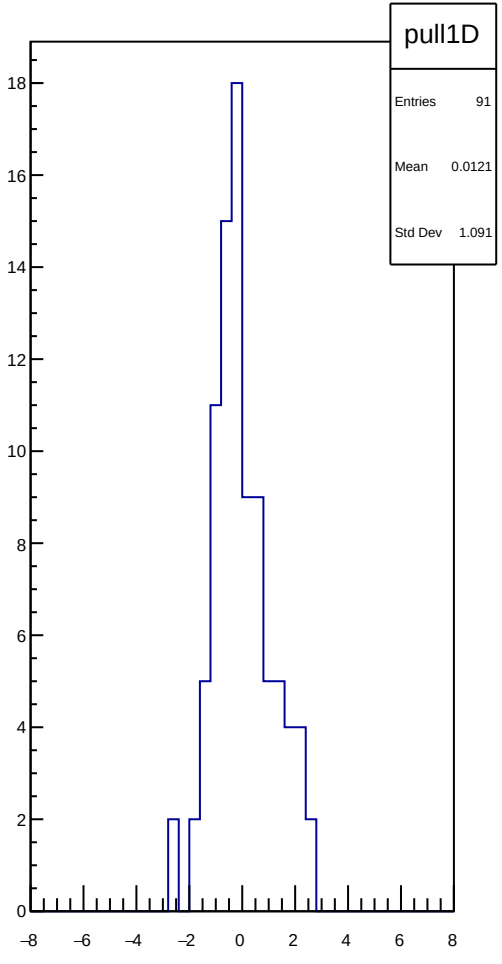

pull1D
Entries 91
Mean 0.0121
Std Dev 1.091

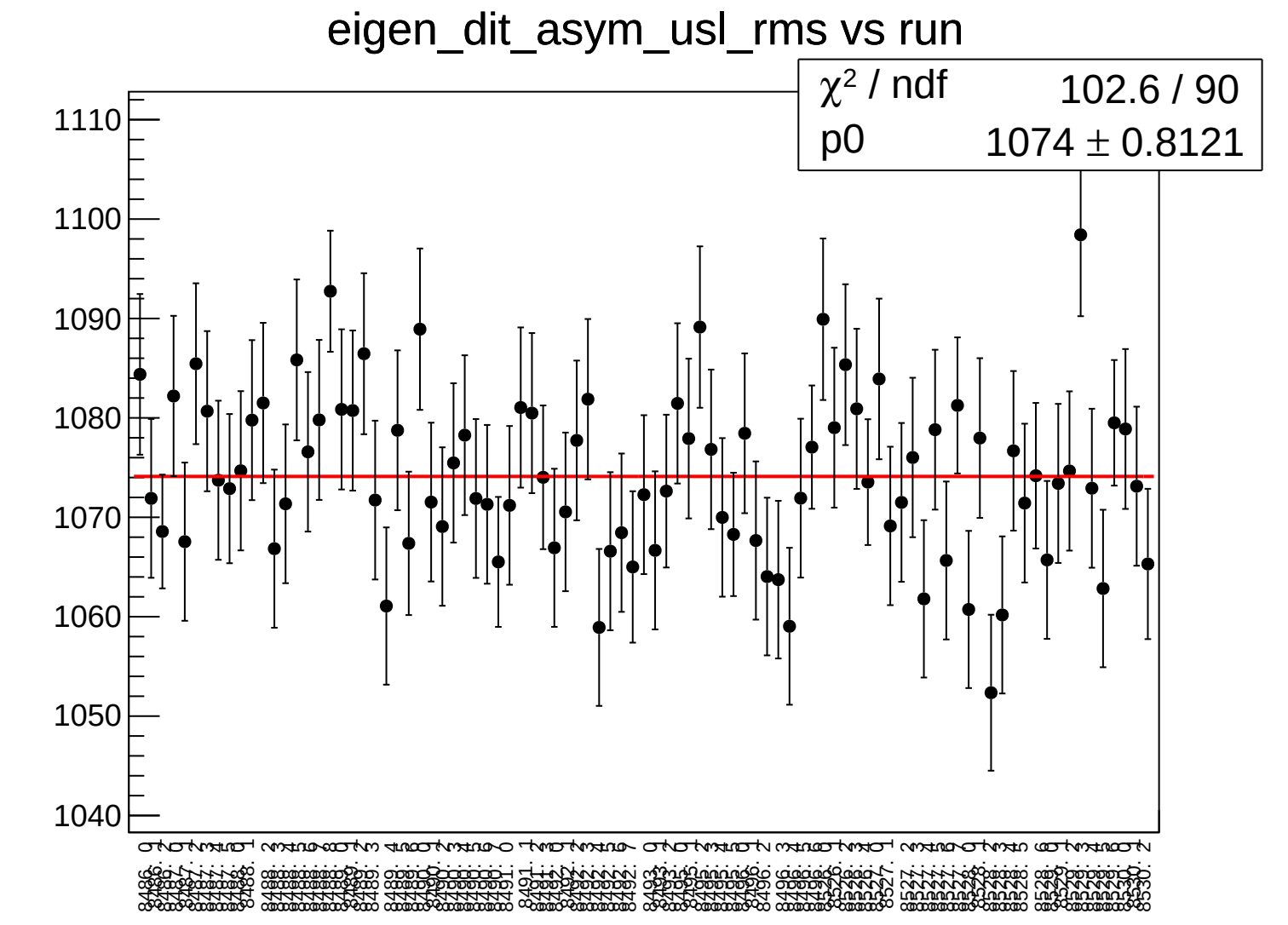

dit_asym_usl_rms vs run
χ² / ndf 102.6 / 90
p0 1074 ± 0.8121
1110
1100
1090
1080
1070
1060
1050
1040

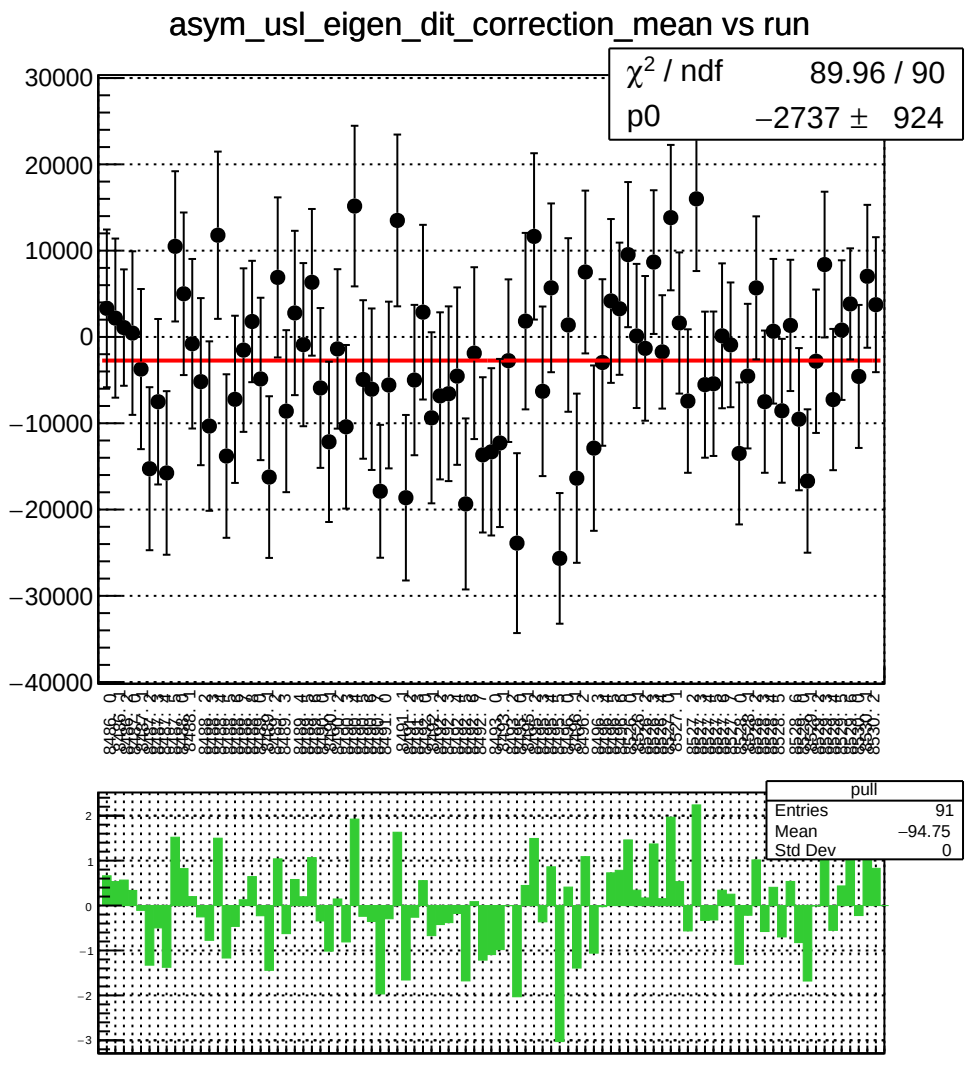

asym_usl_dit_correction_mean vs run
χ² / ndf 89.96 / 90
p0 −2737 ± 924
pull
Entries 91
Mean −94.75
Std Dev 0
pull1D
Entries 91
Mean −0.01644
Std Dev 0.9941

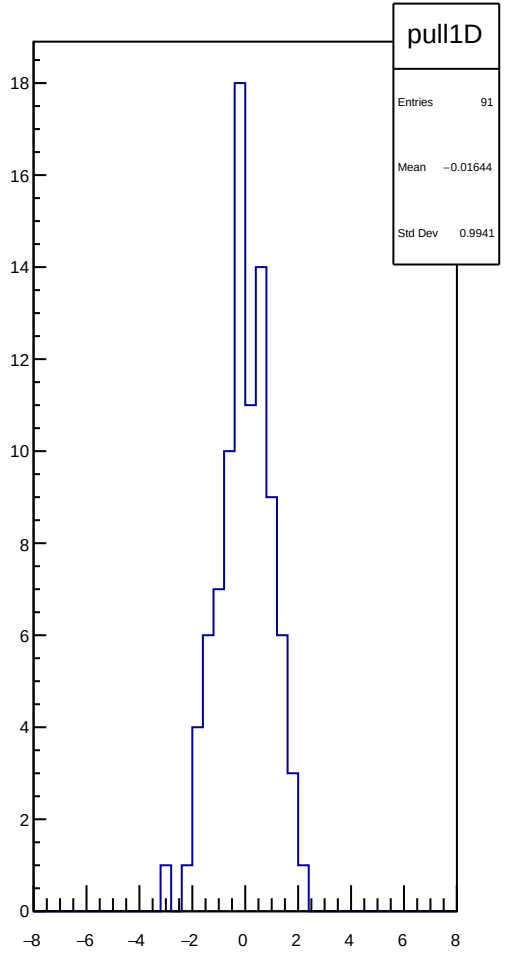

asym_usl_dit_correction_rms vs run
χ² / ndf 9190 / 90
p0 861.9 ± 0.6534
1000
950
900
850
800
750

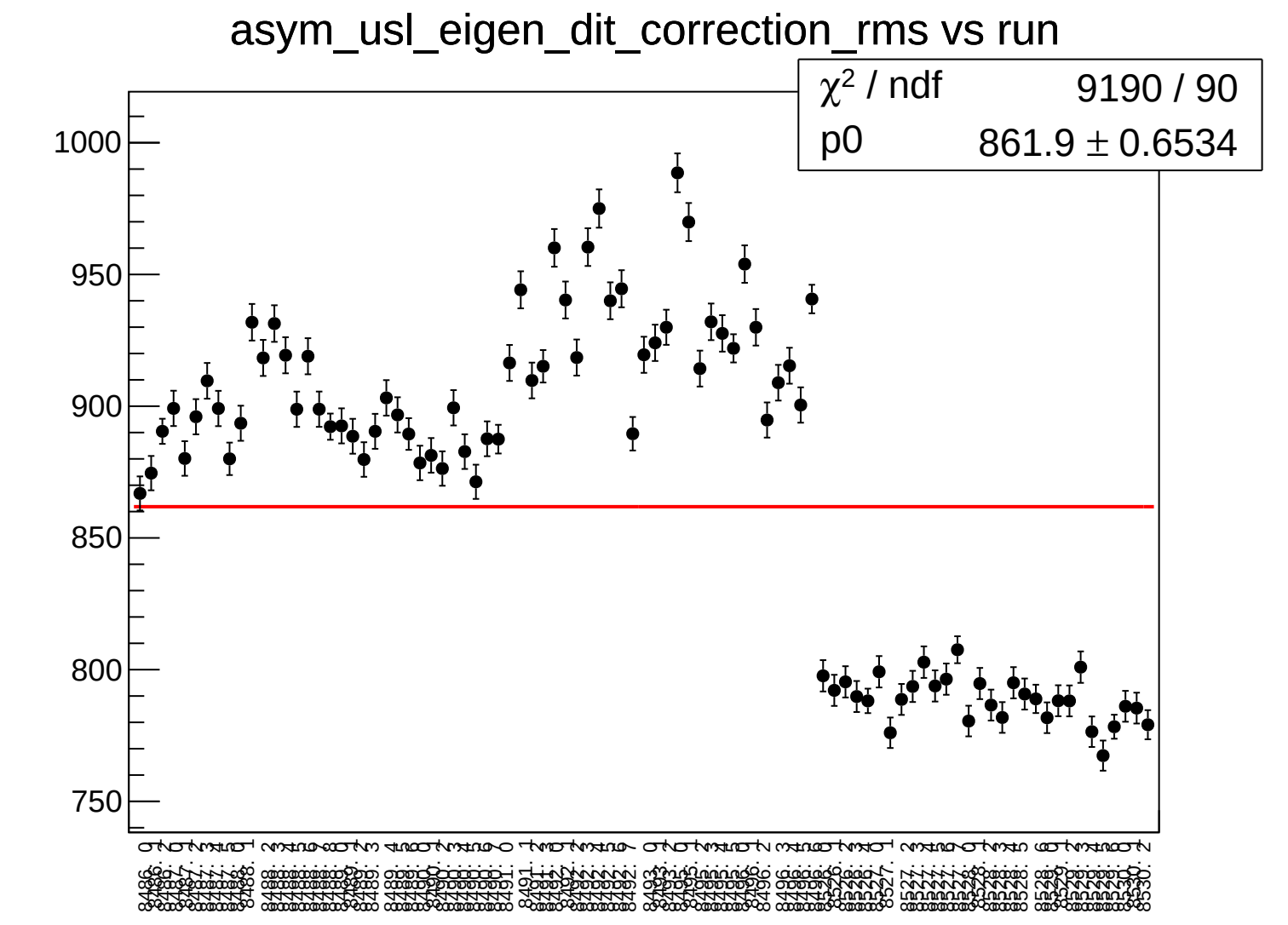

eigen_dit_asym_usl_mean vs run
χ² / ndf 108.4 / 90
p0 −2861 ± 1149
pull
Entries 91
Mean −388.6
Std Dev 0

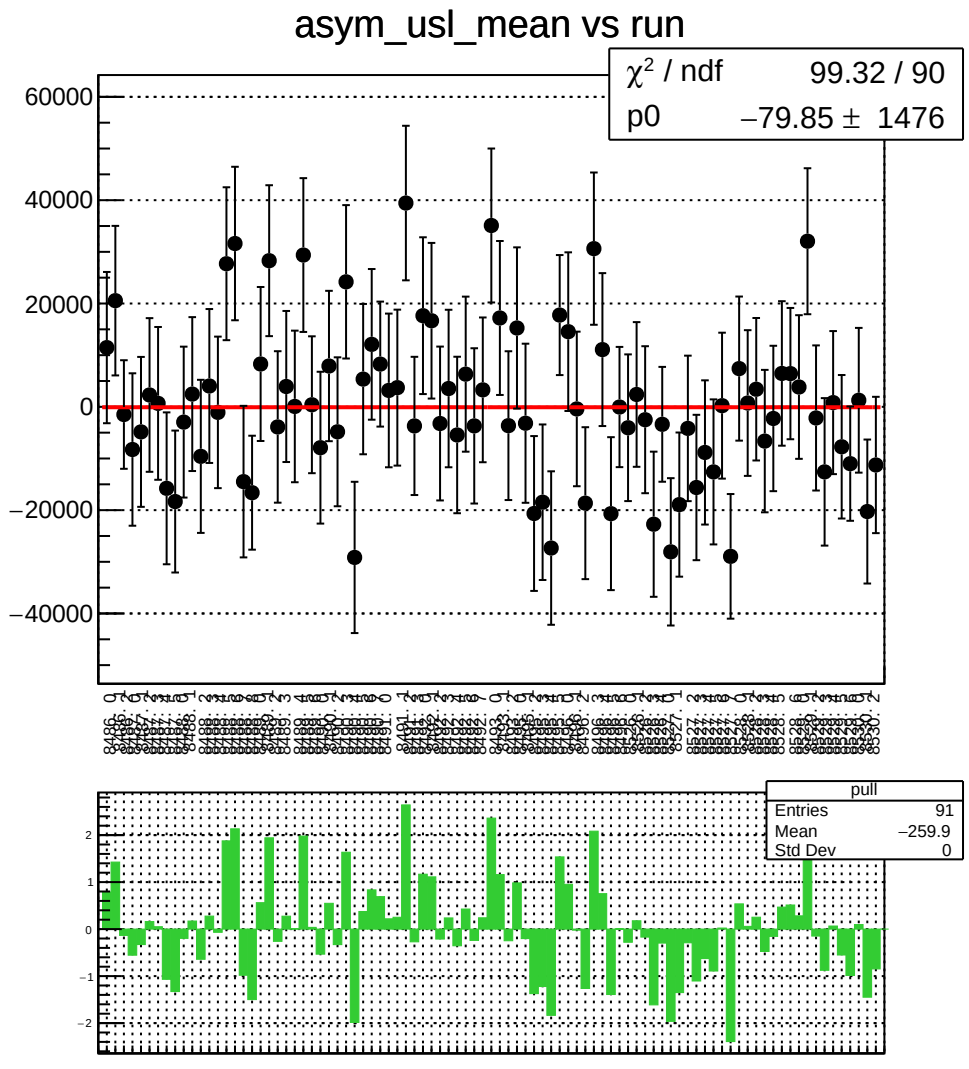

pull1D
Entries 91
Mean 0.0121
Std Dev 1.091

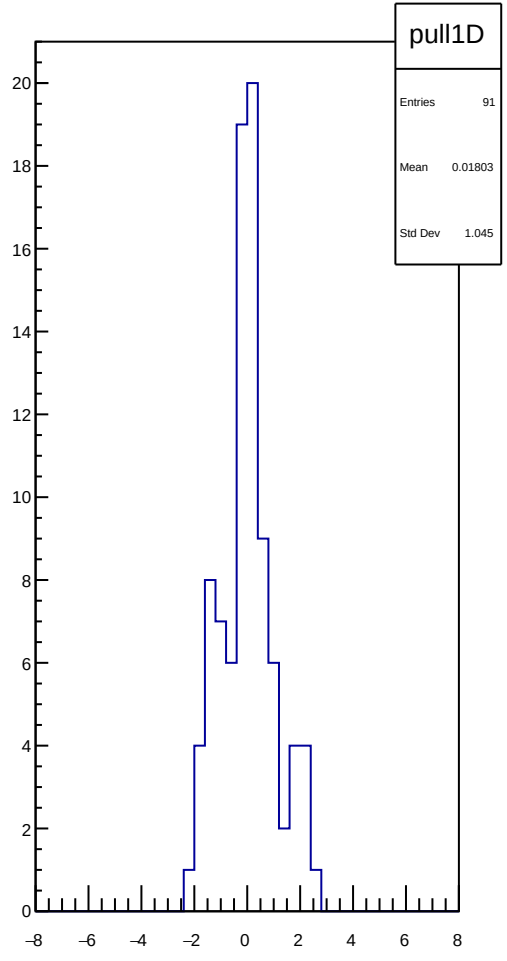

eigen_dit_asym_usl_rms vs run
χ² / ndf 102.6 / 90
p0 1074 ± 0.8121
1110
1100
1090
1080
1070
1060
1050
1040

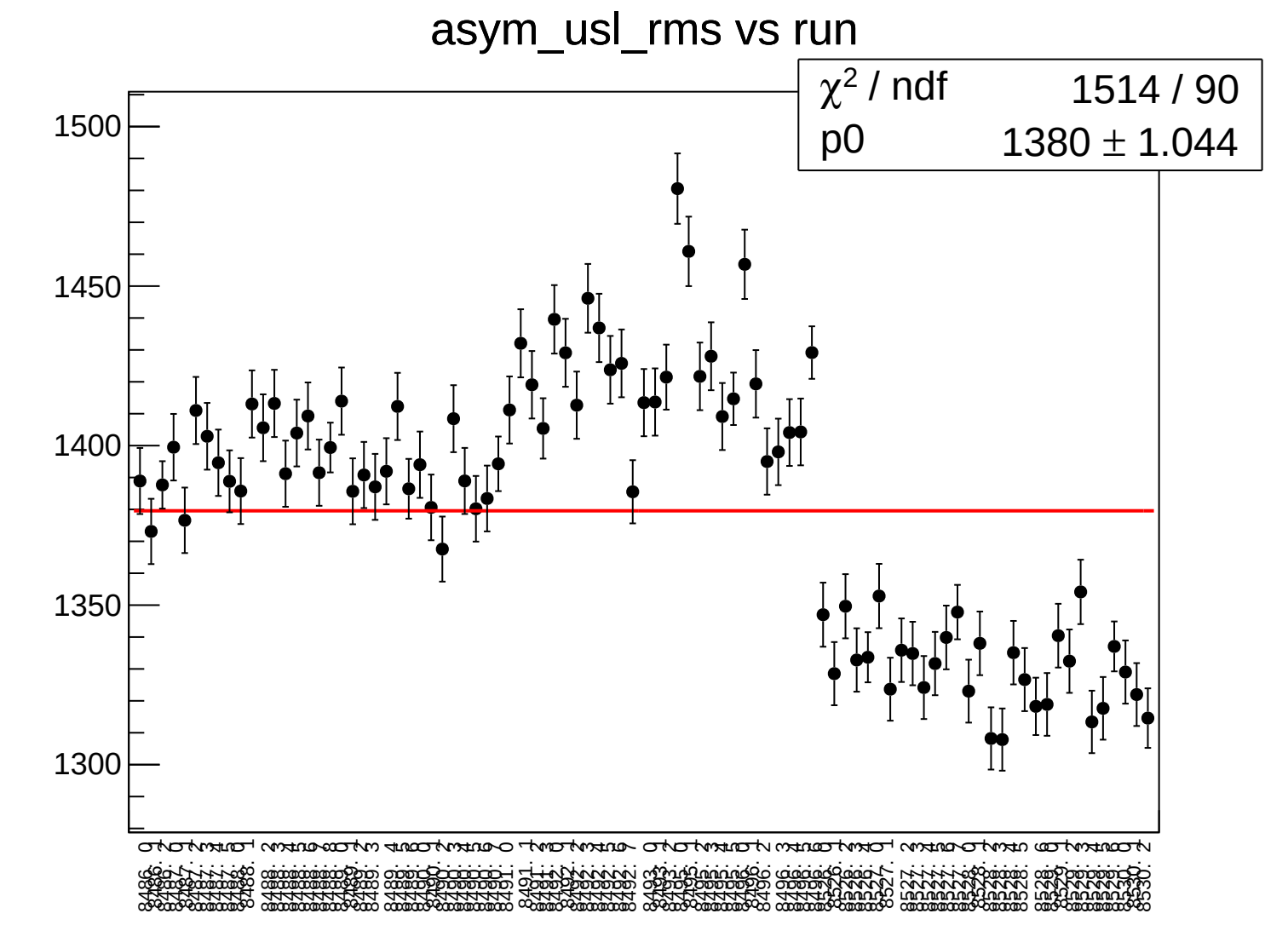

asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 89.96 / 90
p0 −2737 ± 924
pull
Entries 91
Mean −94.75
Std Dev 0

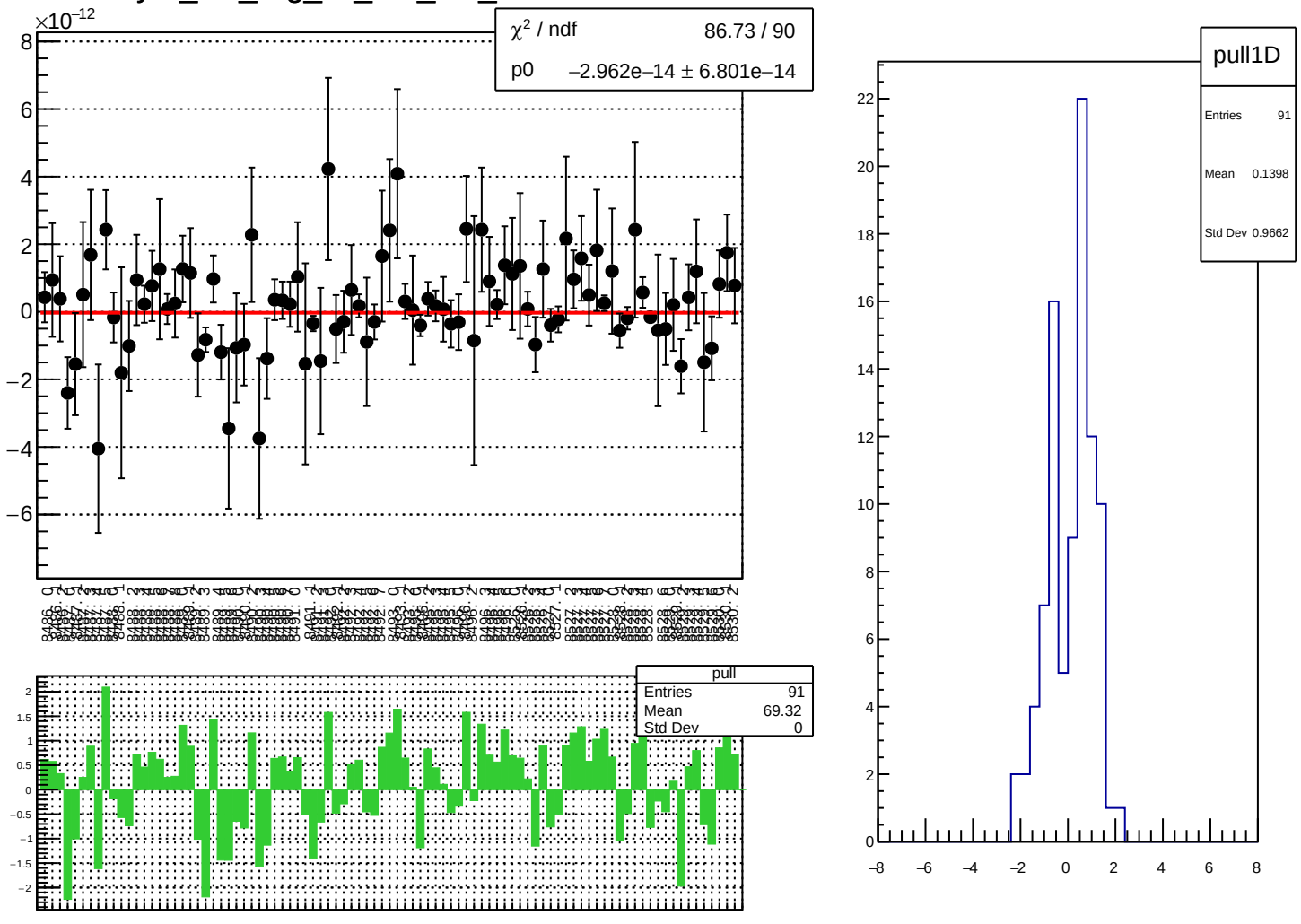

pull1D
Entries 91
Mean −0.01644
Std Dev 0.9941

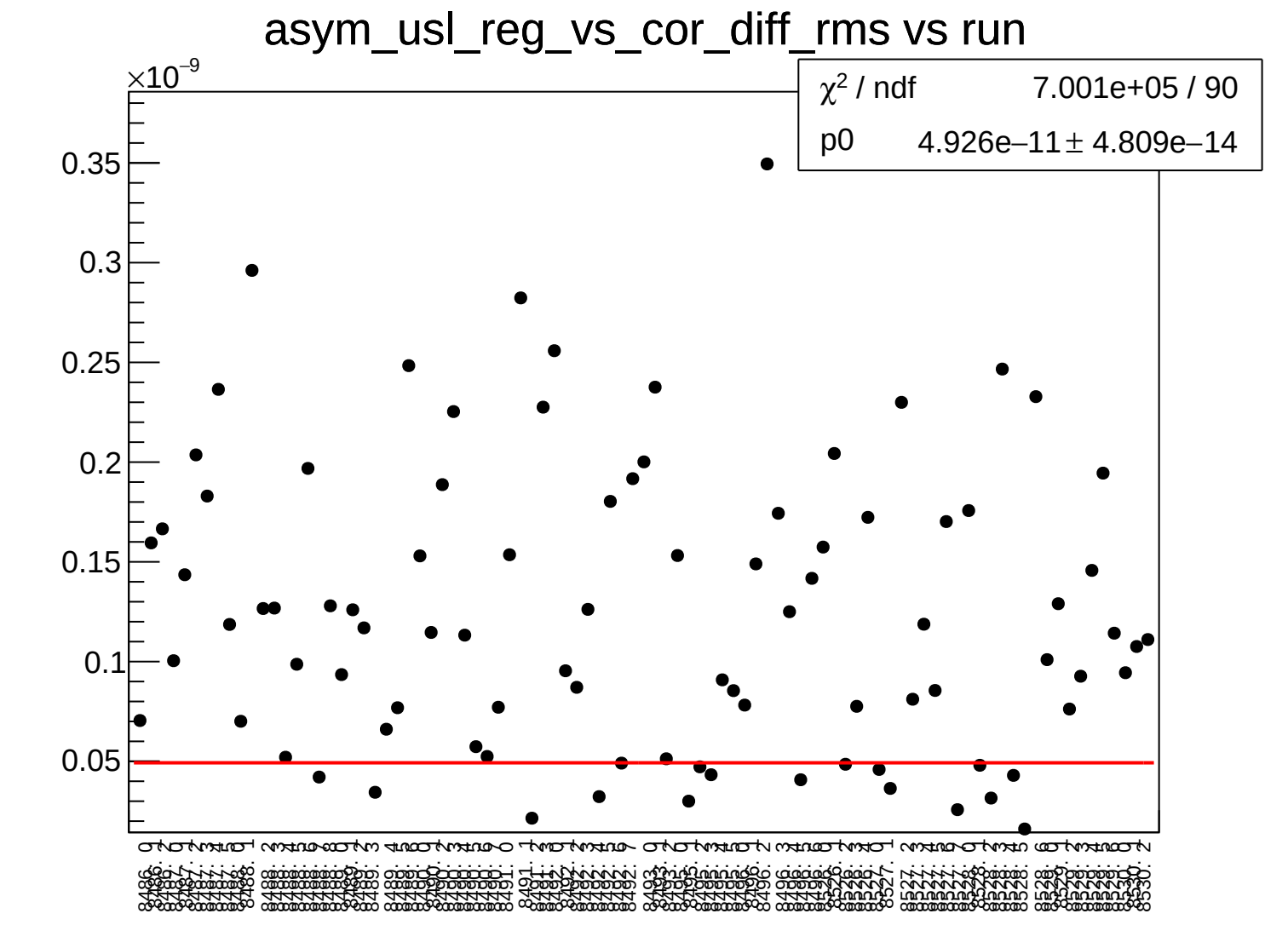

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 9190 / 90
p0 861.9 ± 0.6534
1000
950
900
850
800
750

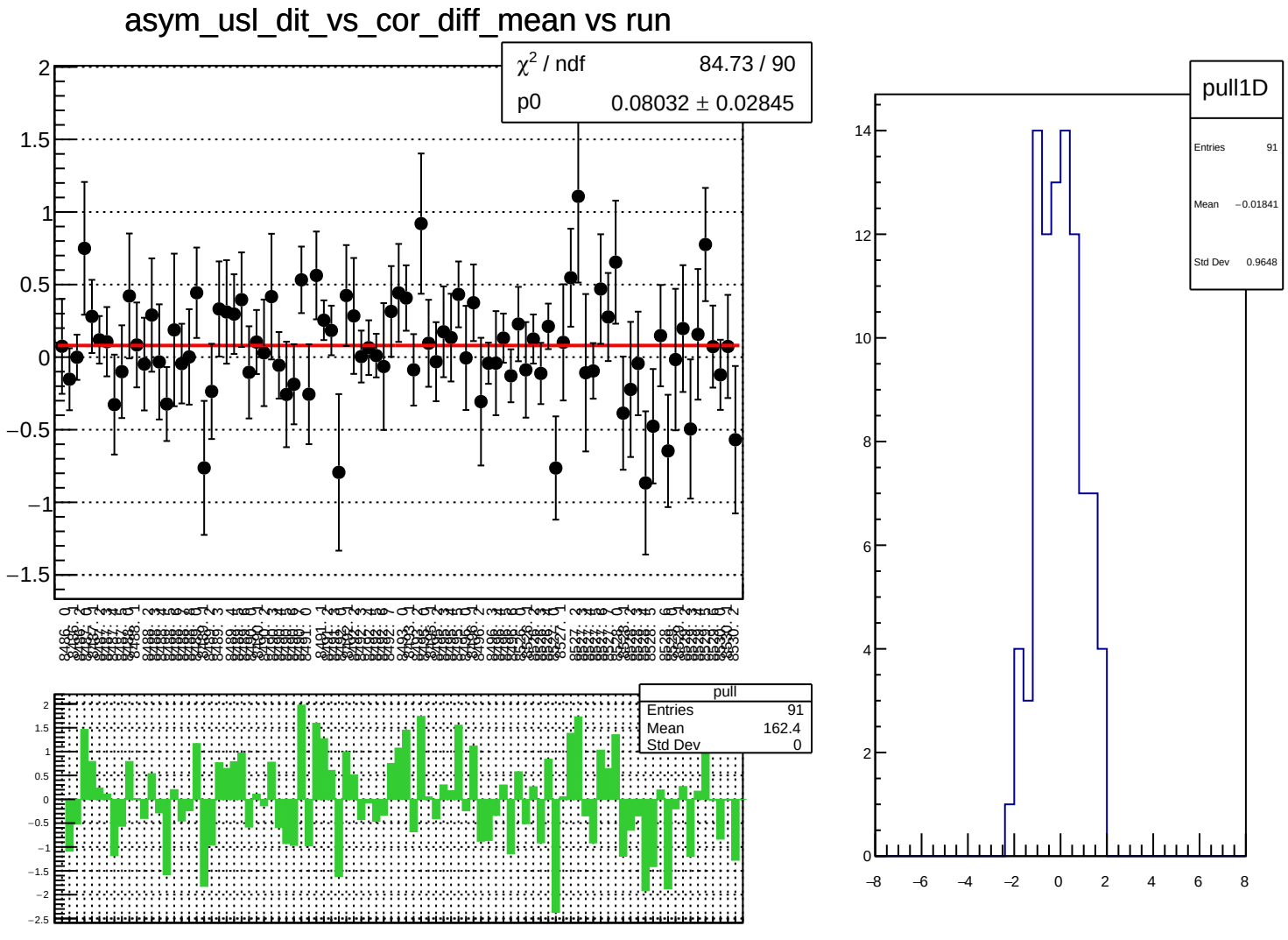

asym_usl_mean vs run
χ² / ndf 99.32 / 90
p0 −79.85 ± 1476
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −259.9
Std Dev 0
2
1
0
−1
−2

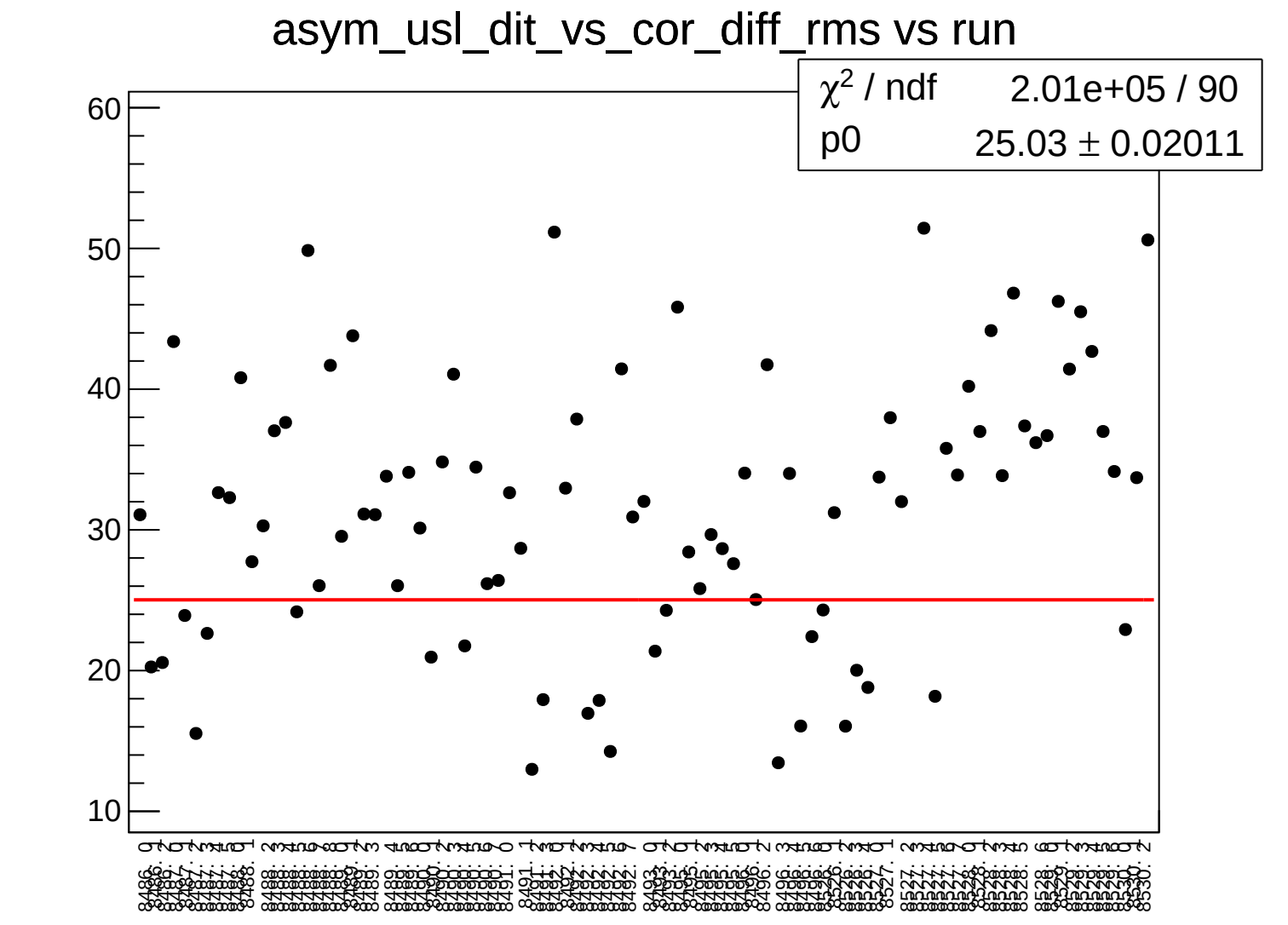

pull1D
Entries 91
Mean 0.01803
Std Dev 1.045
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

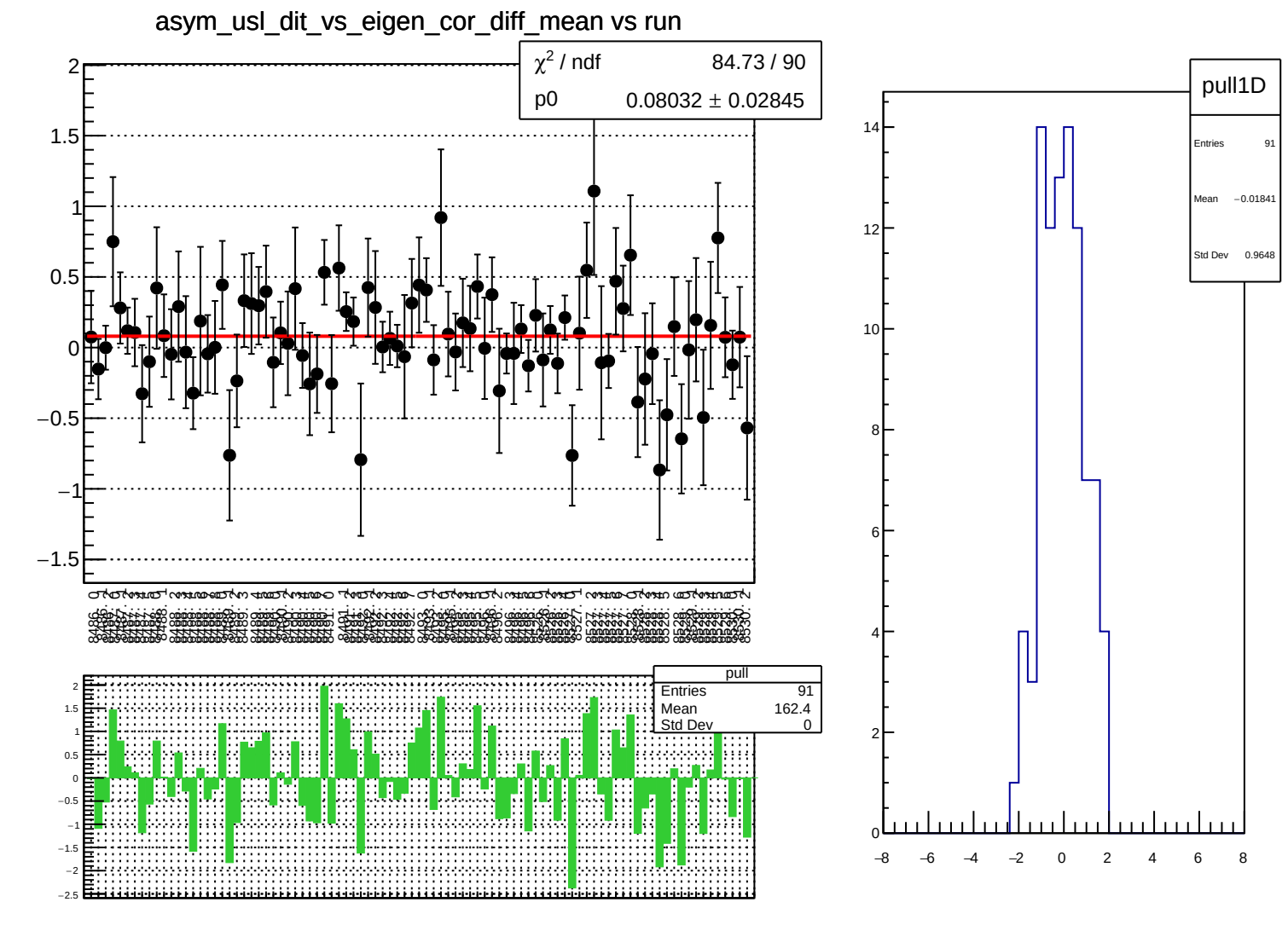

asym_usl_rms vs run
χ² / ndf 1514 / 90
p0 1380 ± 1.044
1500
1450
1400
1350
1300

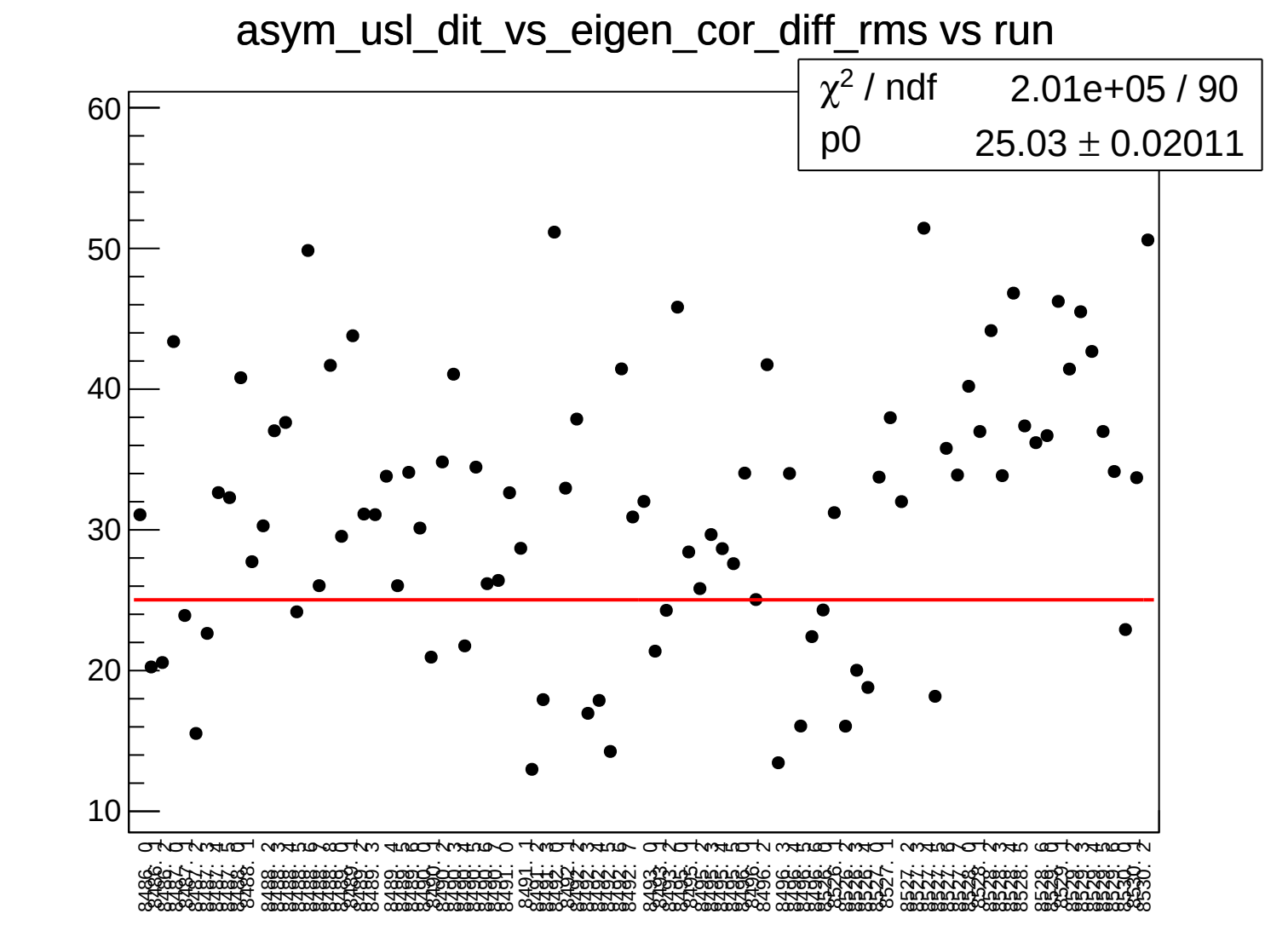

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.73 / 90
p0 −2.962e−14 ± 6.801e−14
pull
Entries 91
Mean 69.32
Std Dev 0
pull1D
Entries 91
Mean 0.1398
Std Dev 0.9662

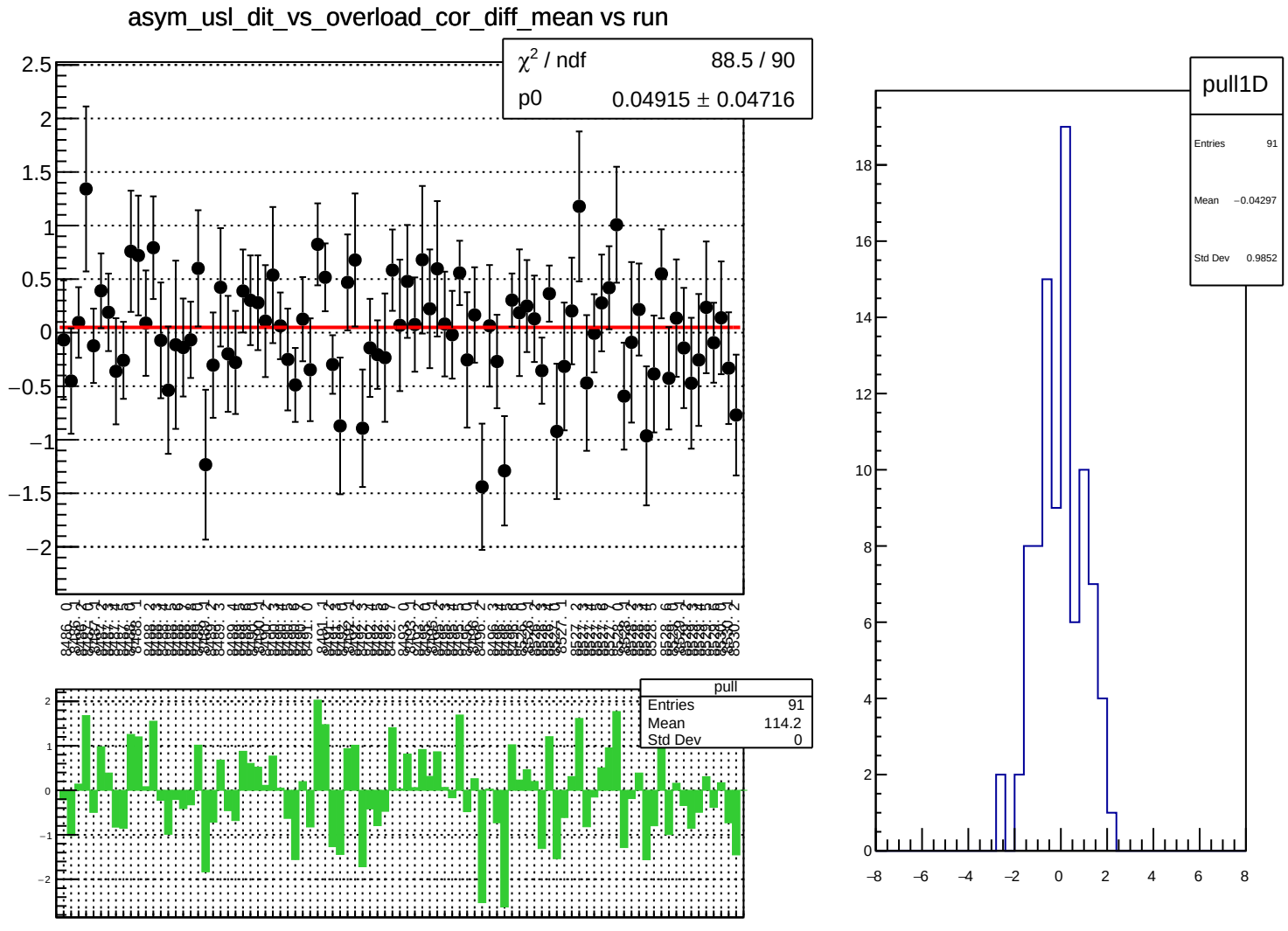

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.001e+05 / 90
p0 4.926e−11 ± 4.809e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

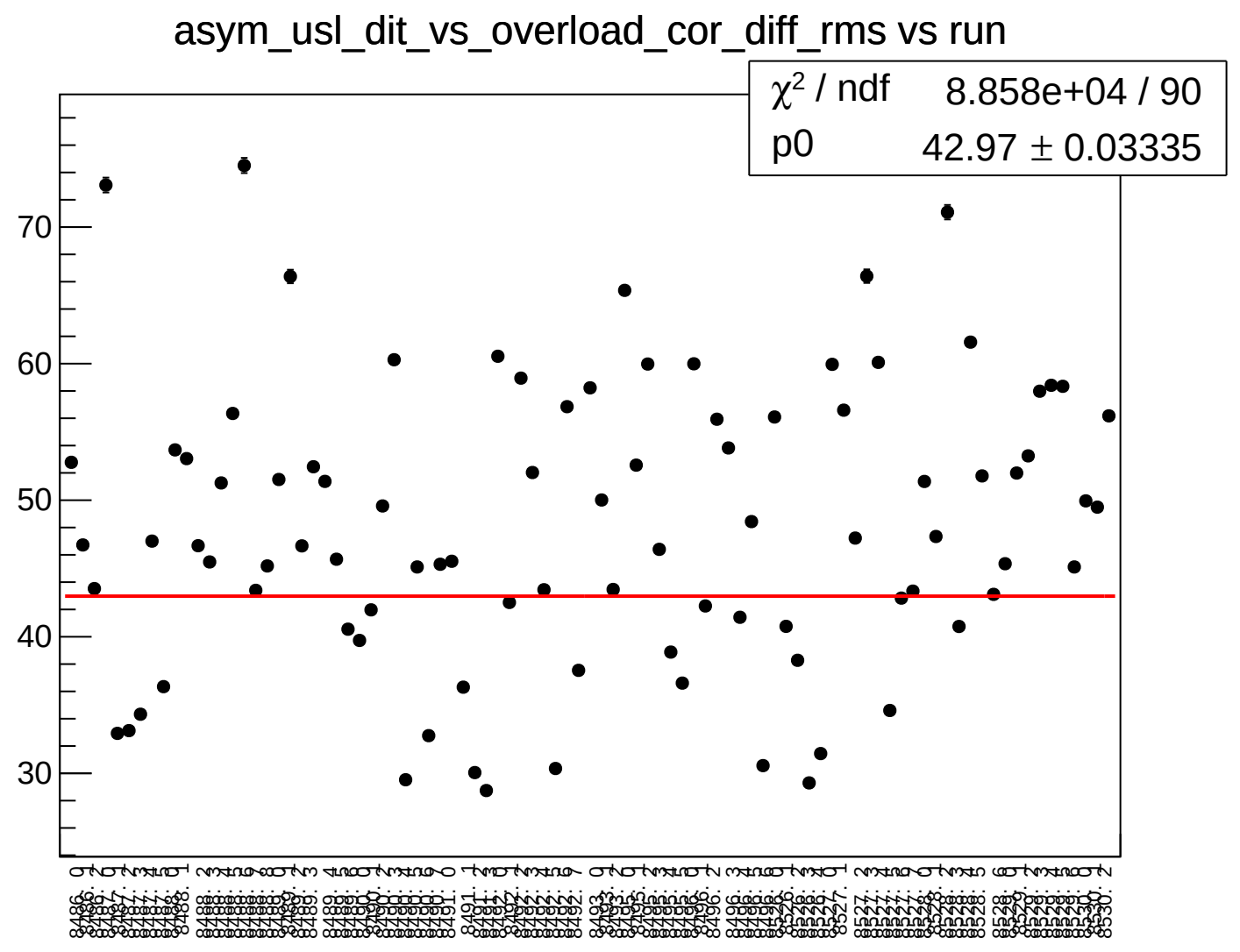

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 84.73 / 90
p0 0.08032 ± 0.02845
pull
Entries 91
Mean 162.4
Std Dev 0
pull1D
Entries 91
Mean −0.01841
Std Dev 0.9648

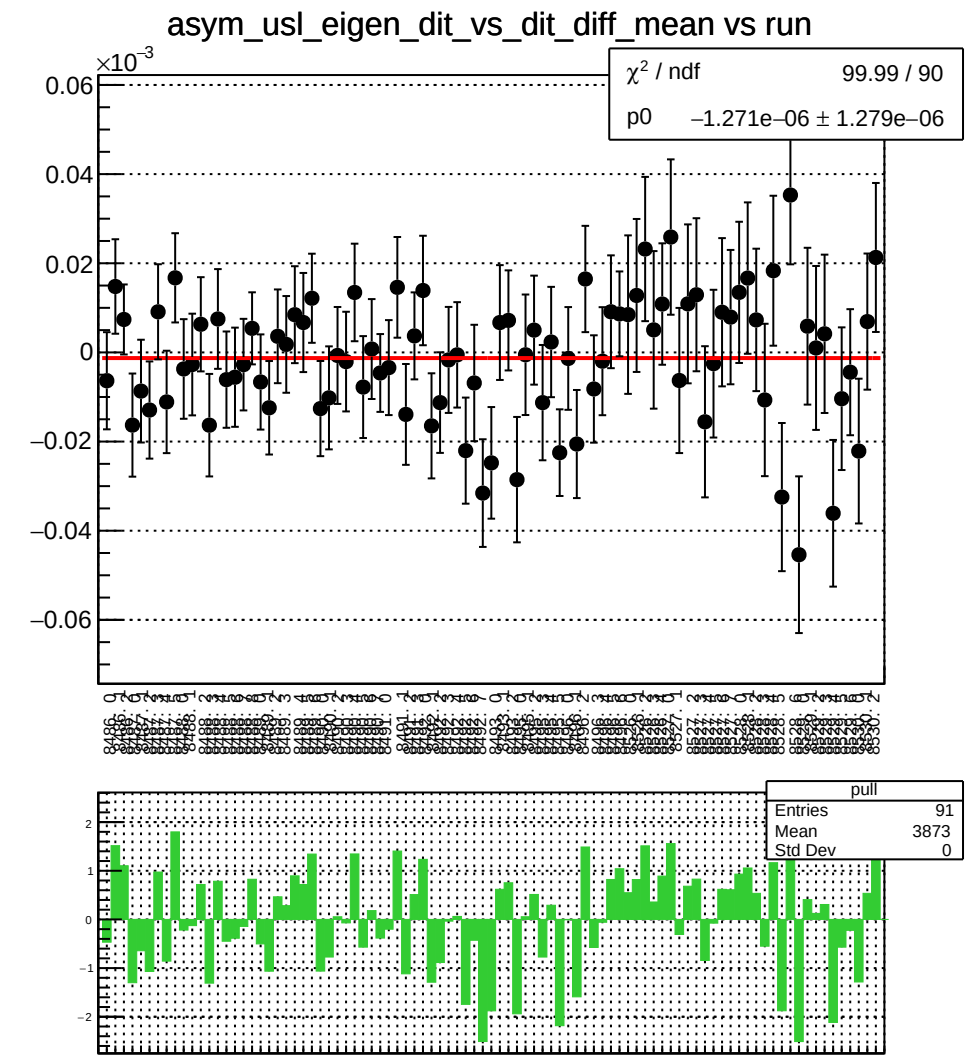

asym_usl_dit_vs_cor_diff_rms vs run
χ² / ndf 2.01e+05 / 90
p0 25.03 ± 0.02011
60
50
40
30
20
10

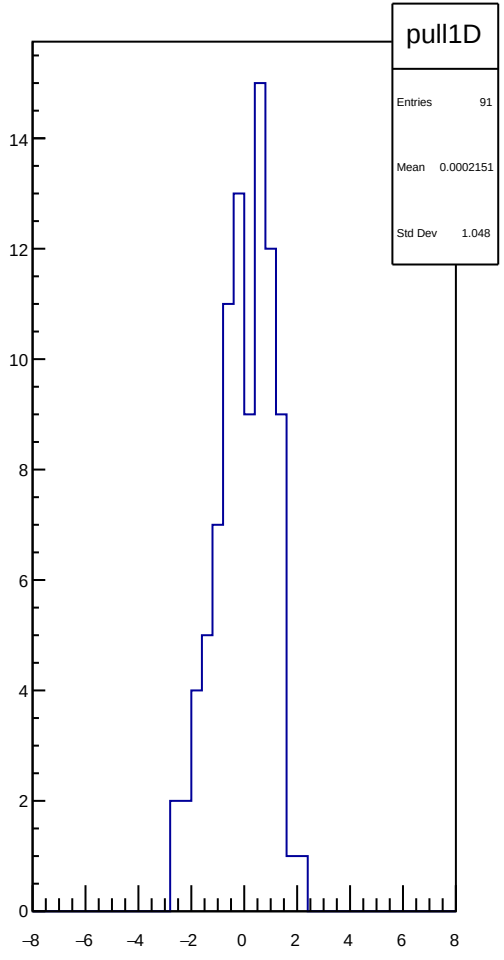

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.73 / 90
p0 0.08032 ± 0.02845
pull
Entries 91
Mean 162.4
Std Dev 0
pull1D
Entries 91
Mean −0.01841
Std Dev 0.9648

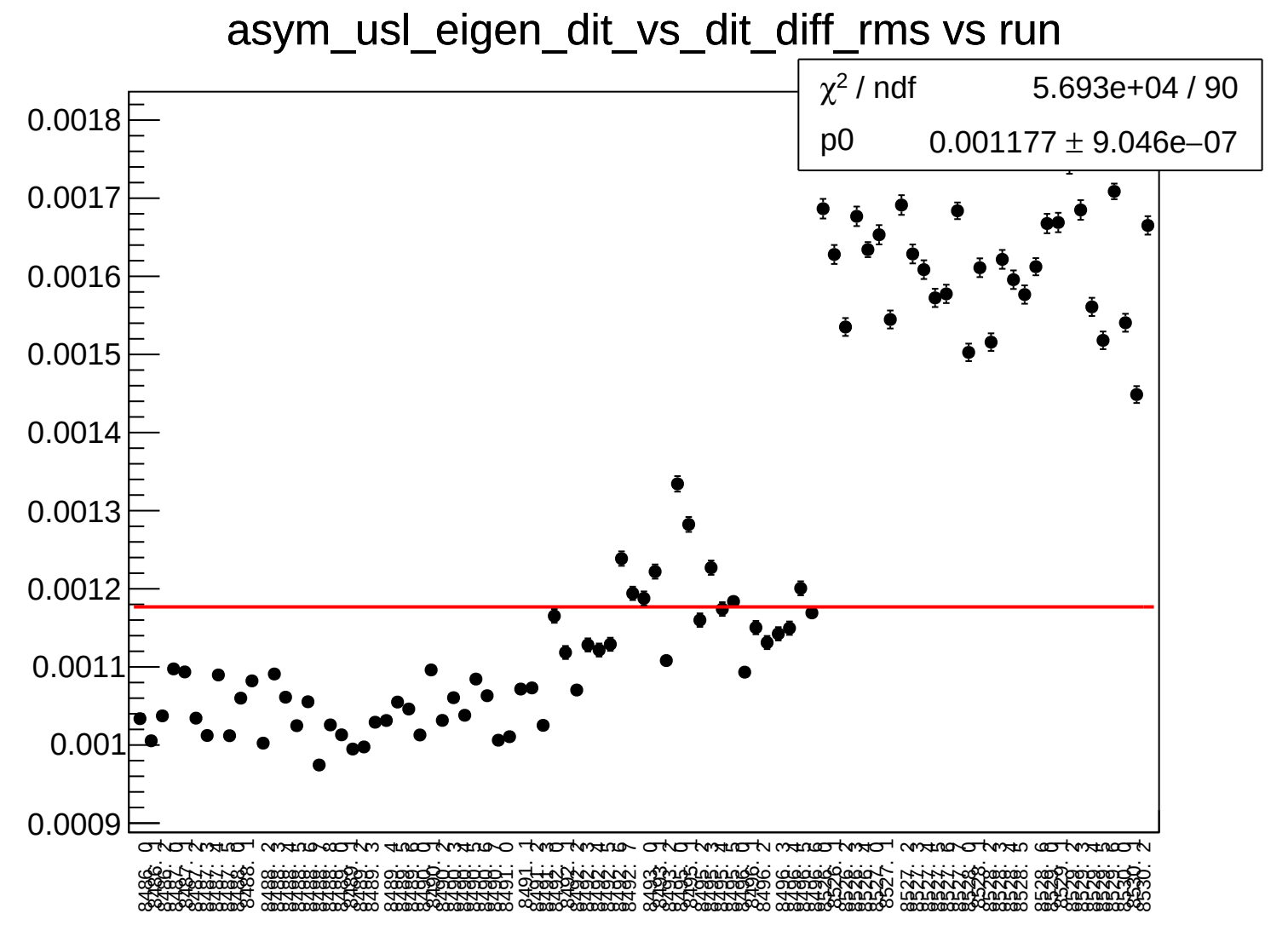

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.01e+05 / 90
p0 25.03 ± 0.02011
60
50
40
30
20
10

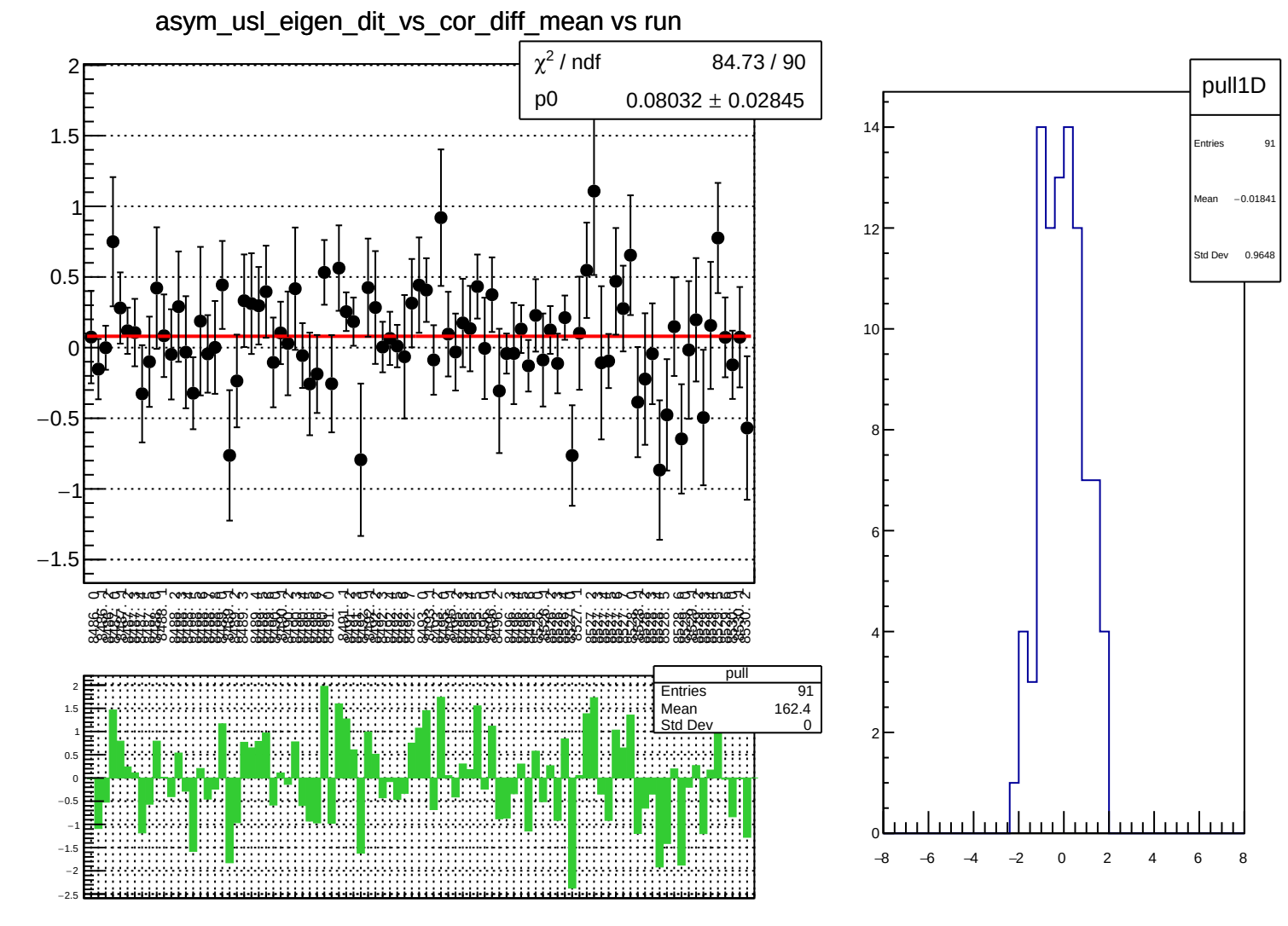

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 88.5 / 90
p0 0.04915 ± 0.04716
pull
Entries 91
Mean 114.2
Std Dev 0
pull1D
Entries 91
Mean −0.04297
Std Dev 0.9852

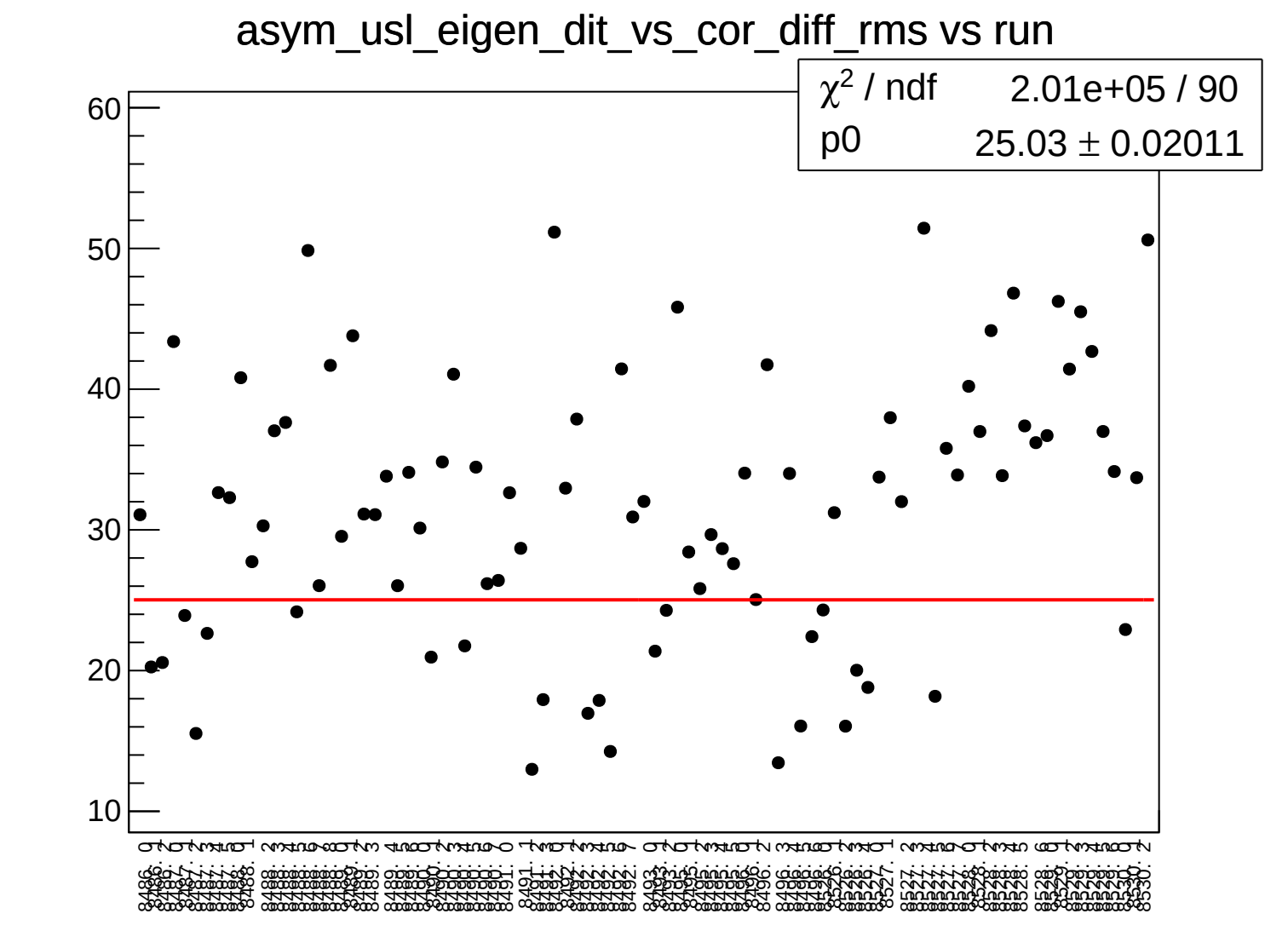

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ^2 / ndf 8.858e+04 / 90
p0 42.97 ± 0.03335
70
60
50
40
30

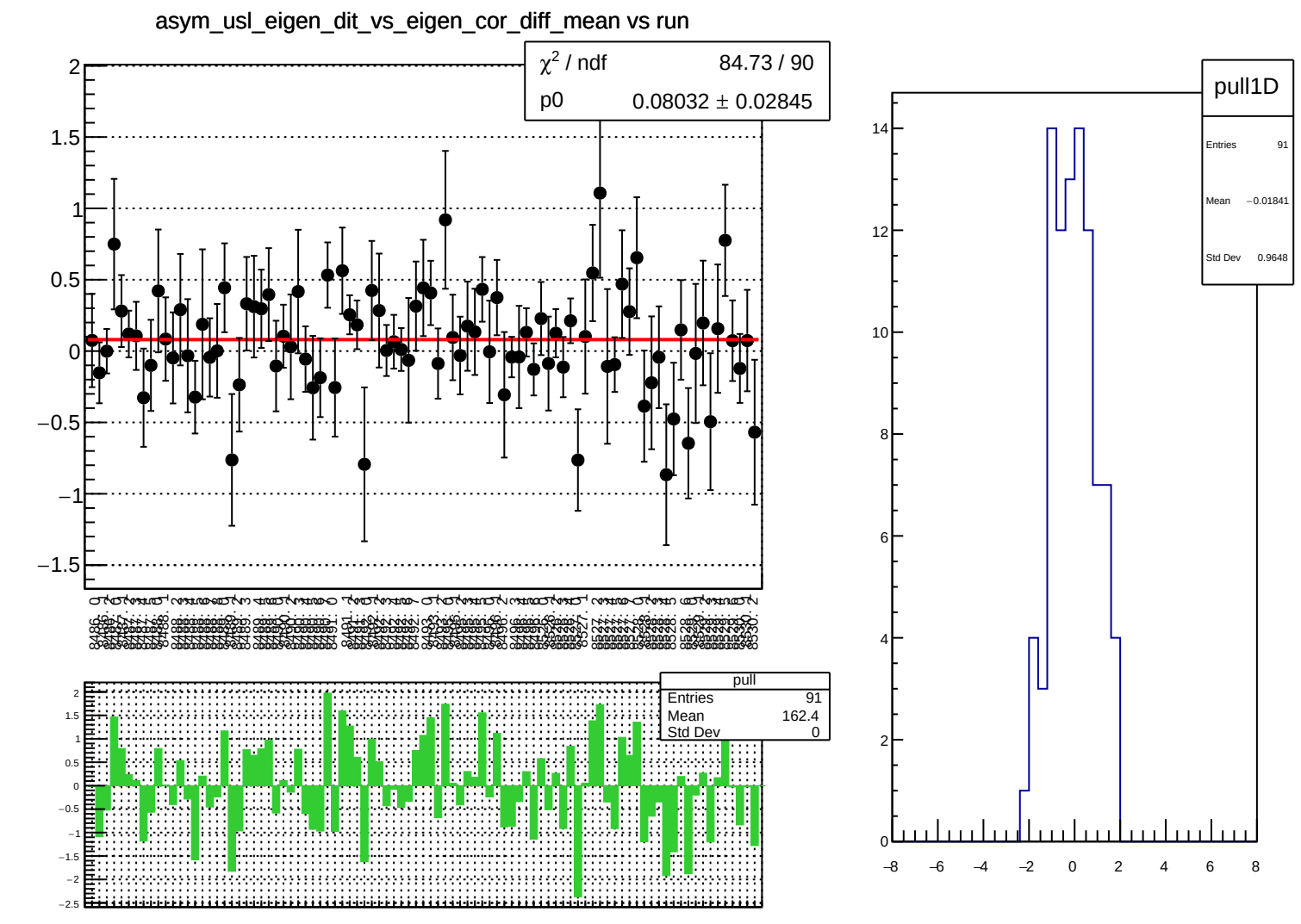

asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.99 / 90
p0 −1.271e−06 ± 1.279e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 91
Mean 3873
Std Dev 0
2
1
0
−1
−2

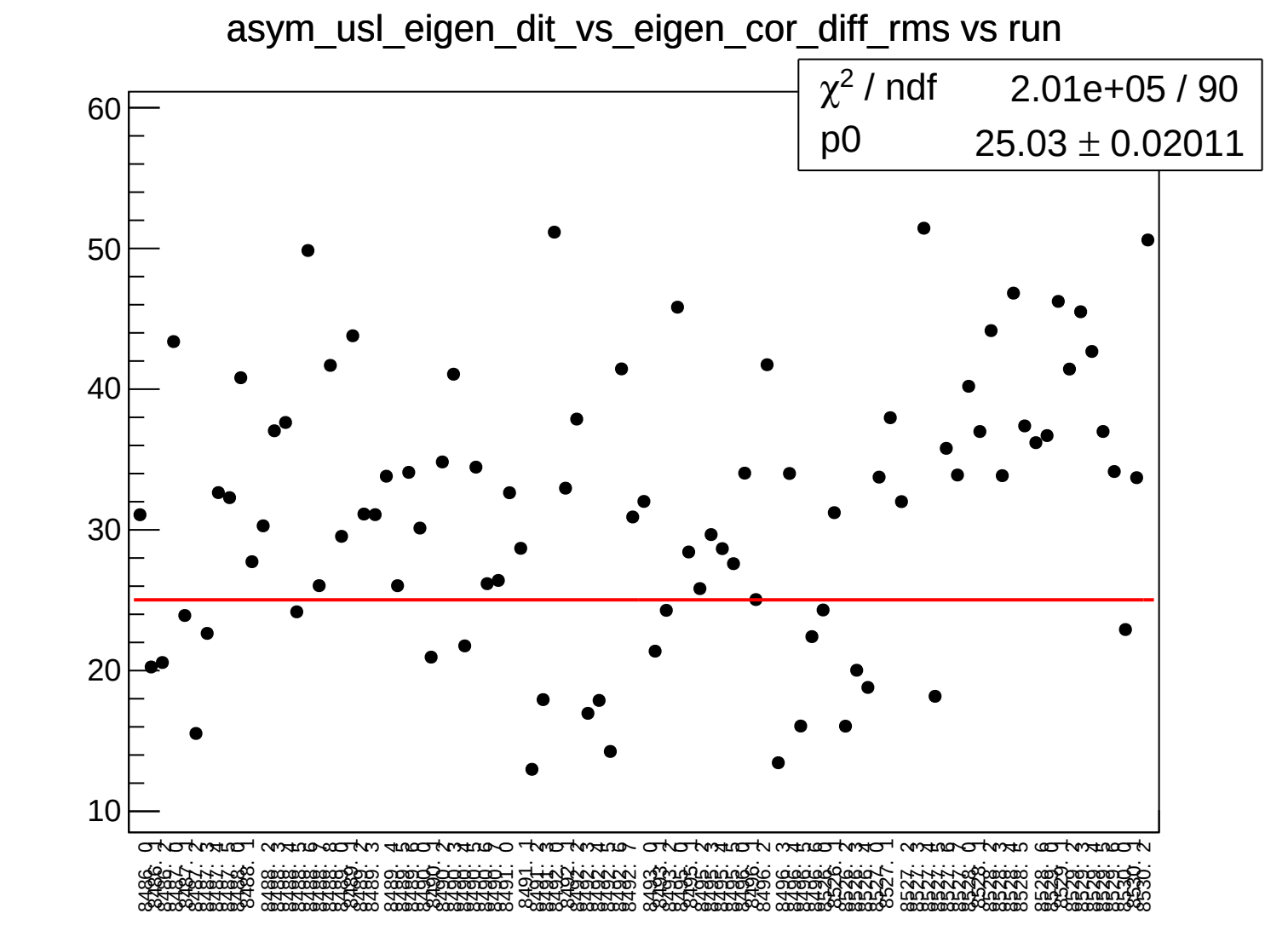

pull1D
Entries 91
Mean 0.0002151
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

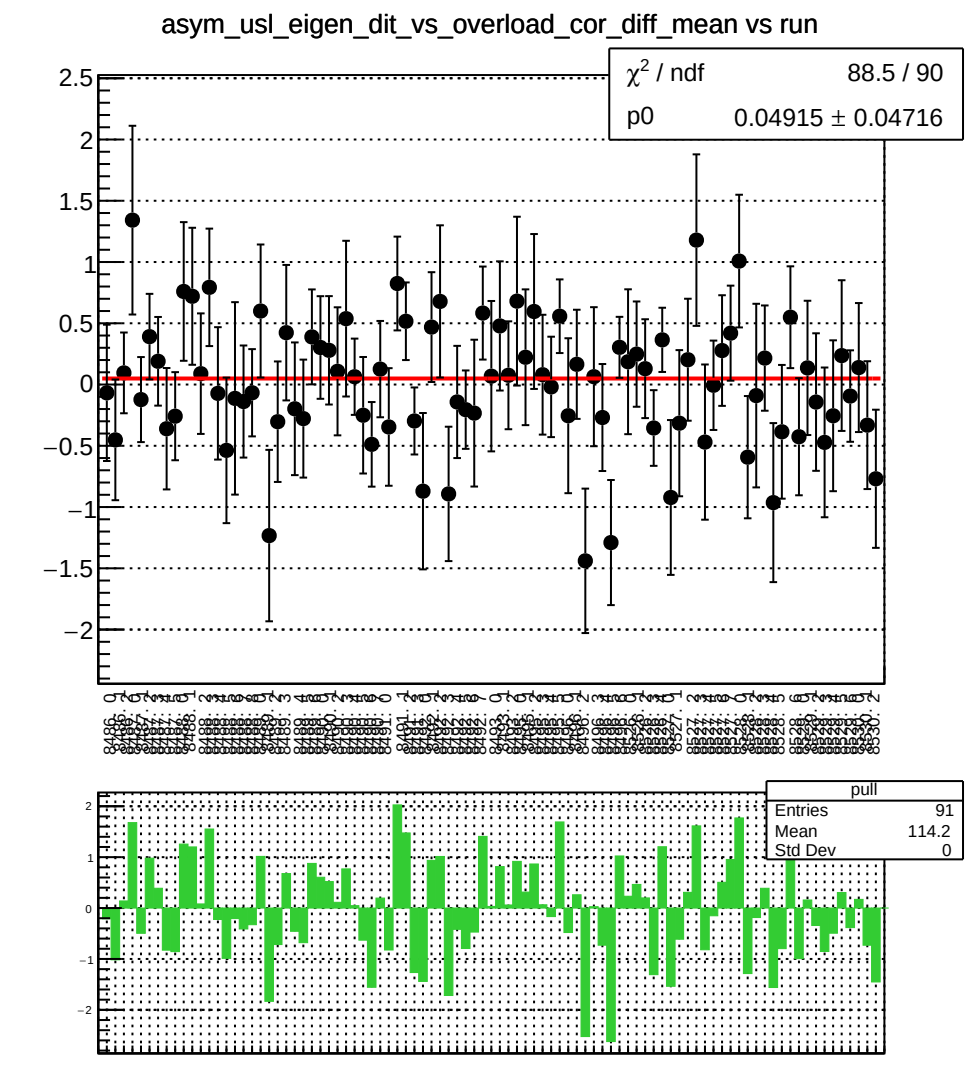

asym_usl_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.693e+04 / 90
p0 0.001177 ± 9.046e−07
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012
0.0011
0.001
0.0009

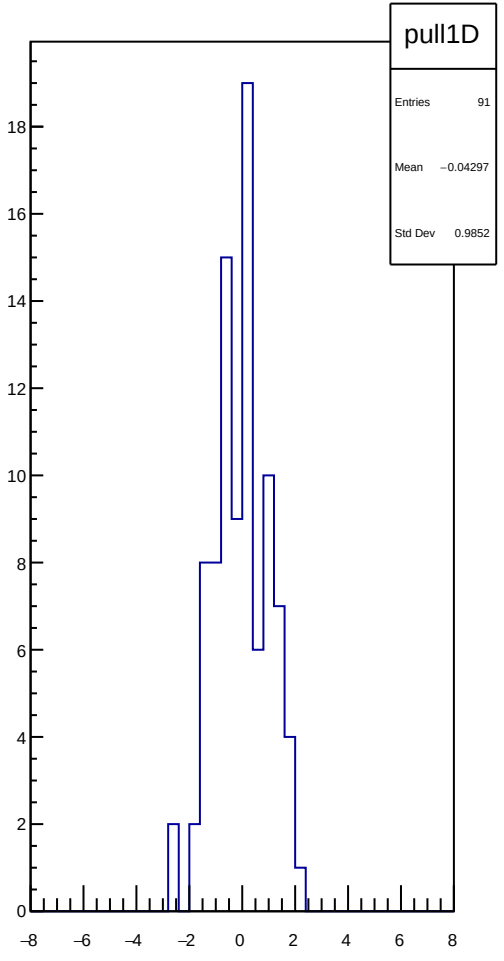

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.73 / 90
p0 0.08032 ± 0.02845
pull
Entries 91
Mean 162.4
Std Dev 0
pull1D
Entries 91
Mean −0.01841
Std Dev 0.9648

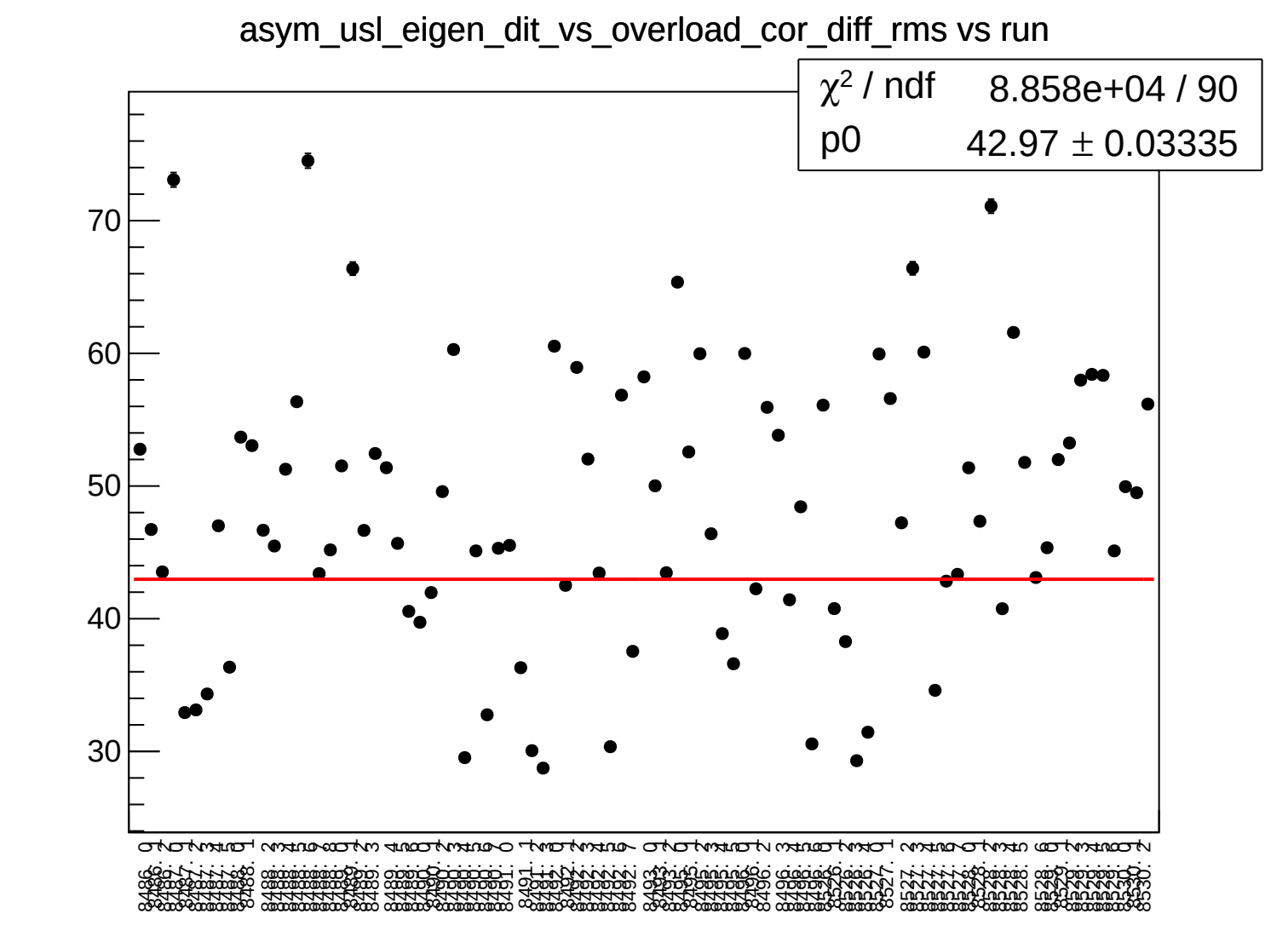

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.01e+05 / 90
p0 25.03 ± 0.02011
60
50
40
30
20
10

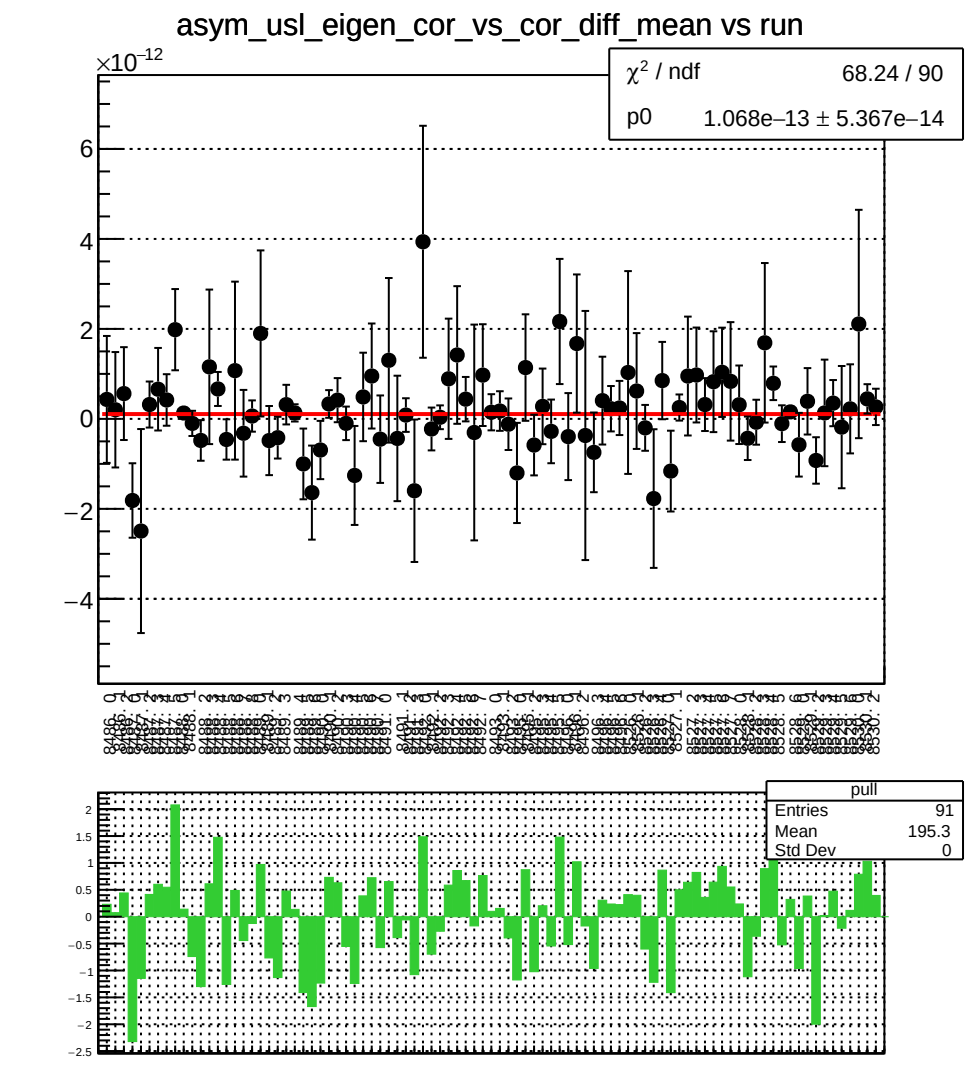

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.73 / 90
p0 0.08032 ± 0.02845
pull
Entries 91
Mean 162.4
Std Dev 0
pull1D
Entries 91
Mean −0.01841
Std Dev 0.9648

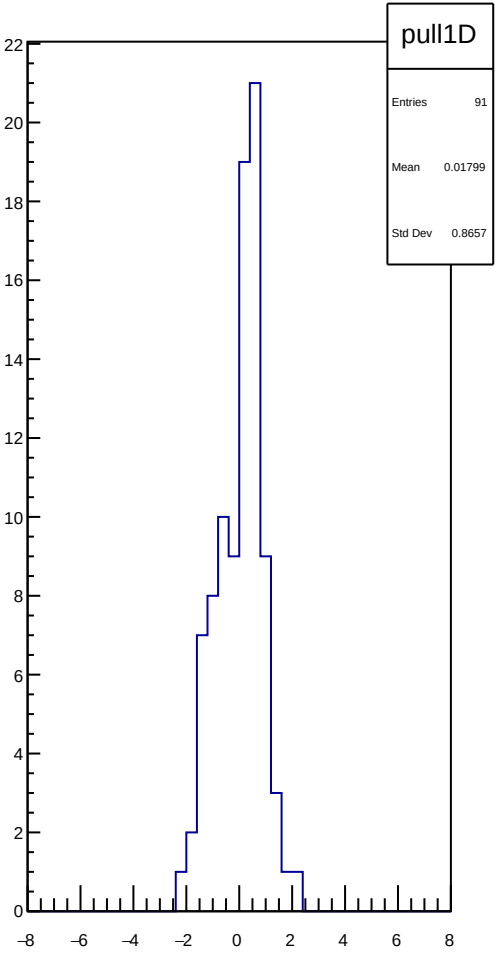

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.01e+05 / 90
p0 25.03 ± 0.02011
60
50
40
30
20
10

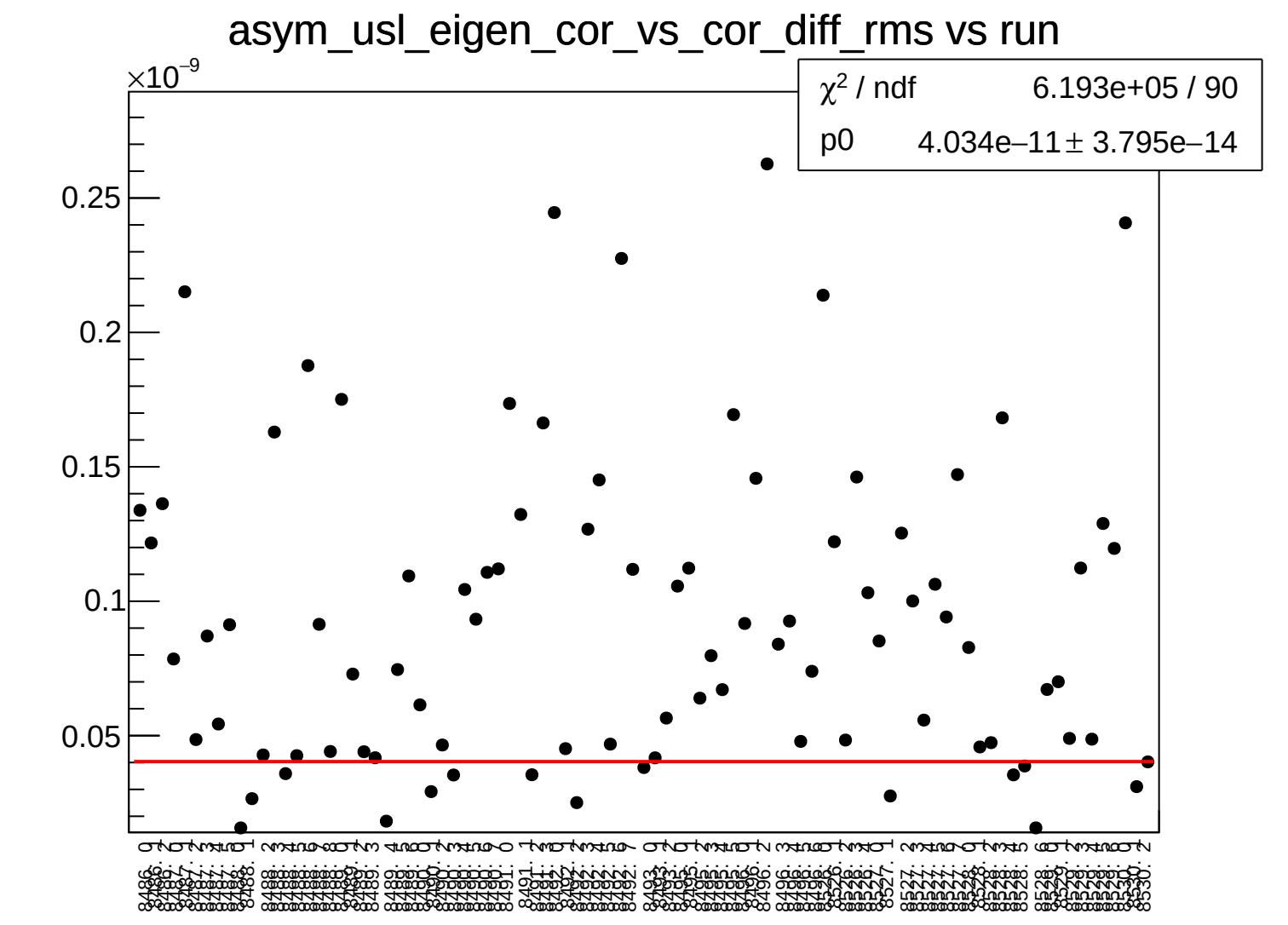

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 88.5 / 90
p0 0.04915 ± 0.04716
pull
Entries 91
Mean 114.2
Std Dev 0

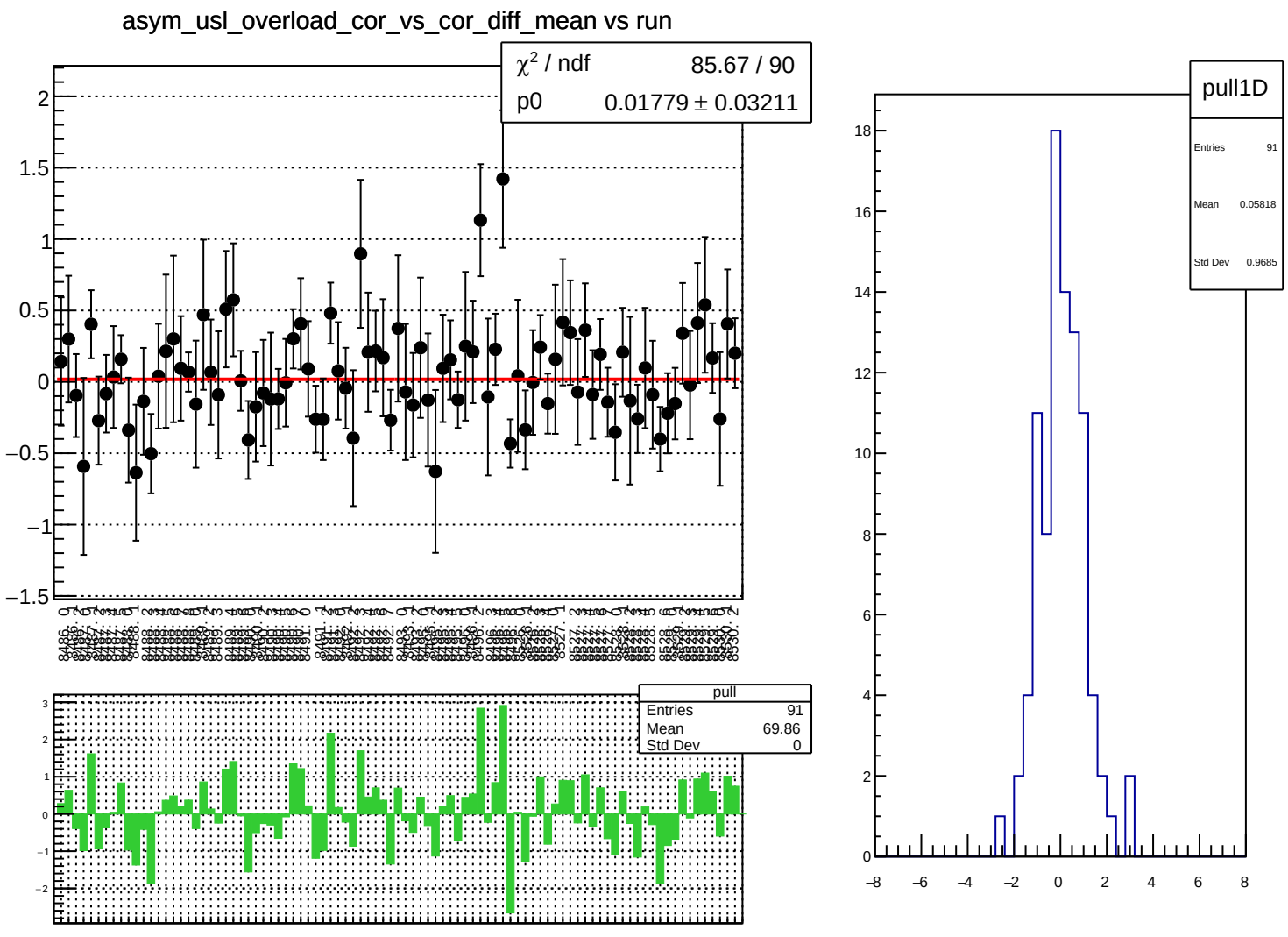

pull1D
Entries 91
Mean −0.04297
Std Dev 0.9852

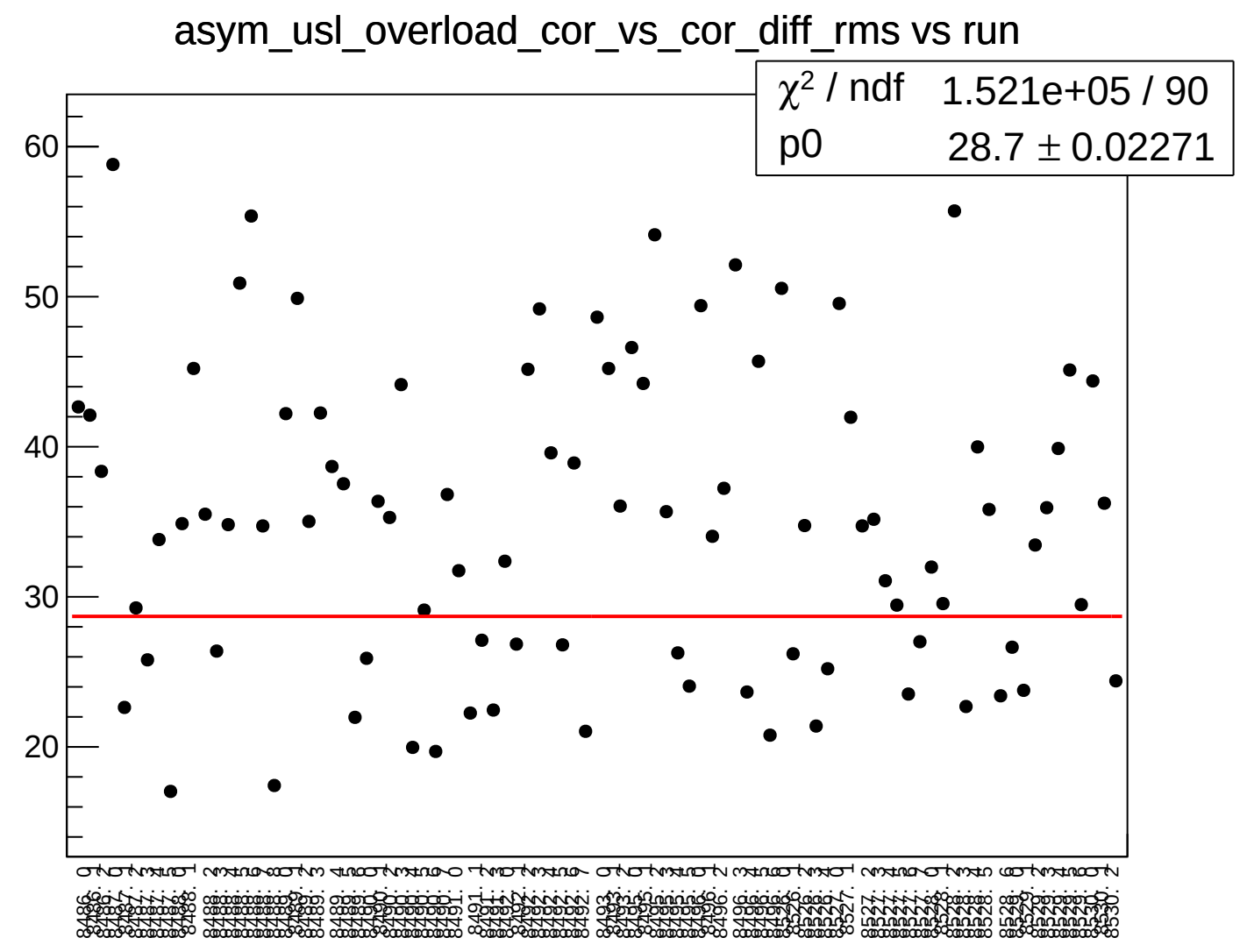

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 8.858e+04 / 90
p0 42.97 ± 0.03335
70
60
50
40
30

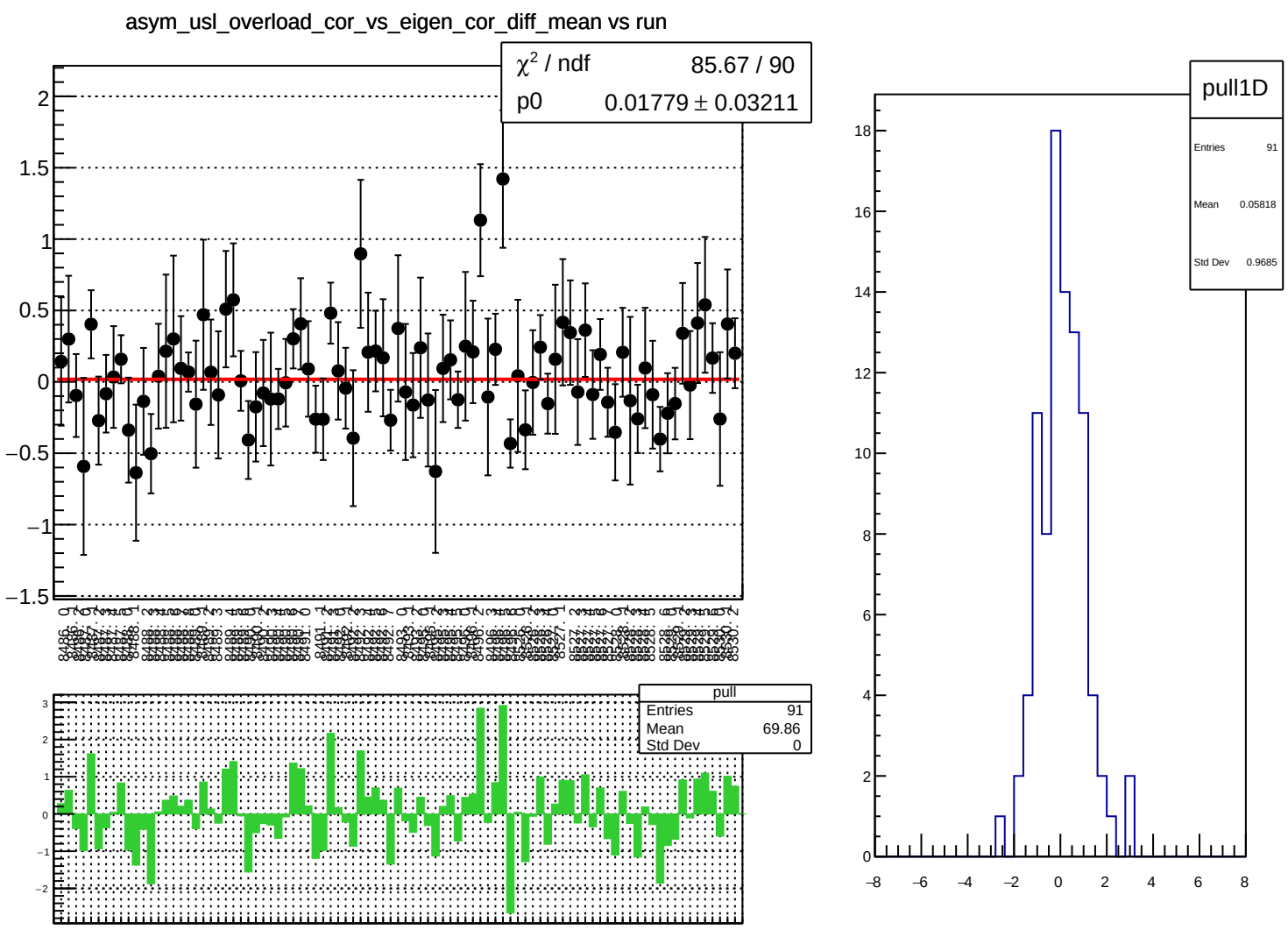

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 68.24 / 90
p0 1.068e−13 ± 5.367e−14
pull
Entries 91
Mean 195.3
Std Dev 0

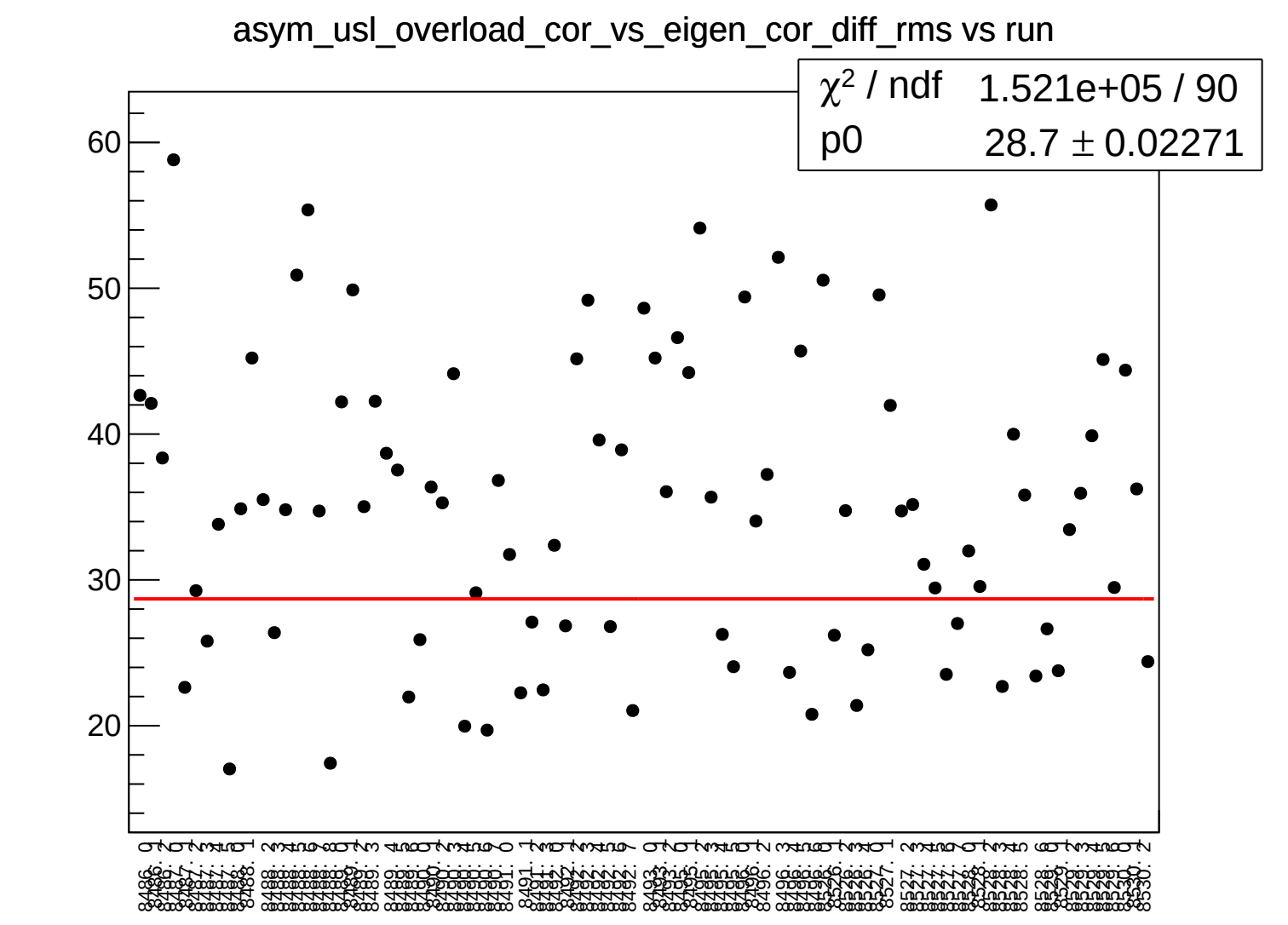

pull1D
Entries 91
Mean 0.01799
Std Dev 0.8657

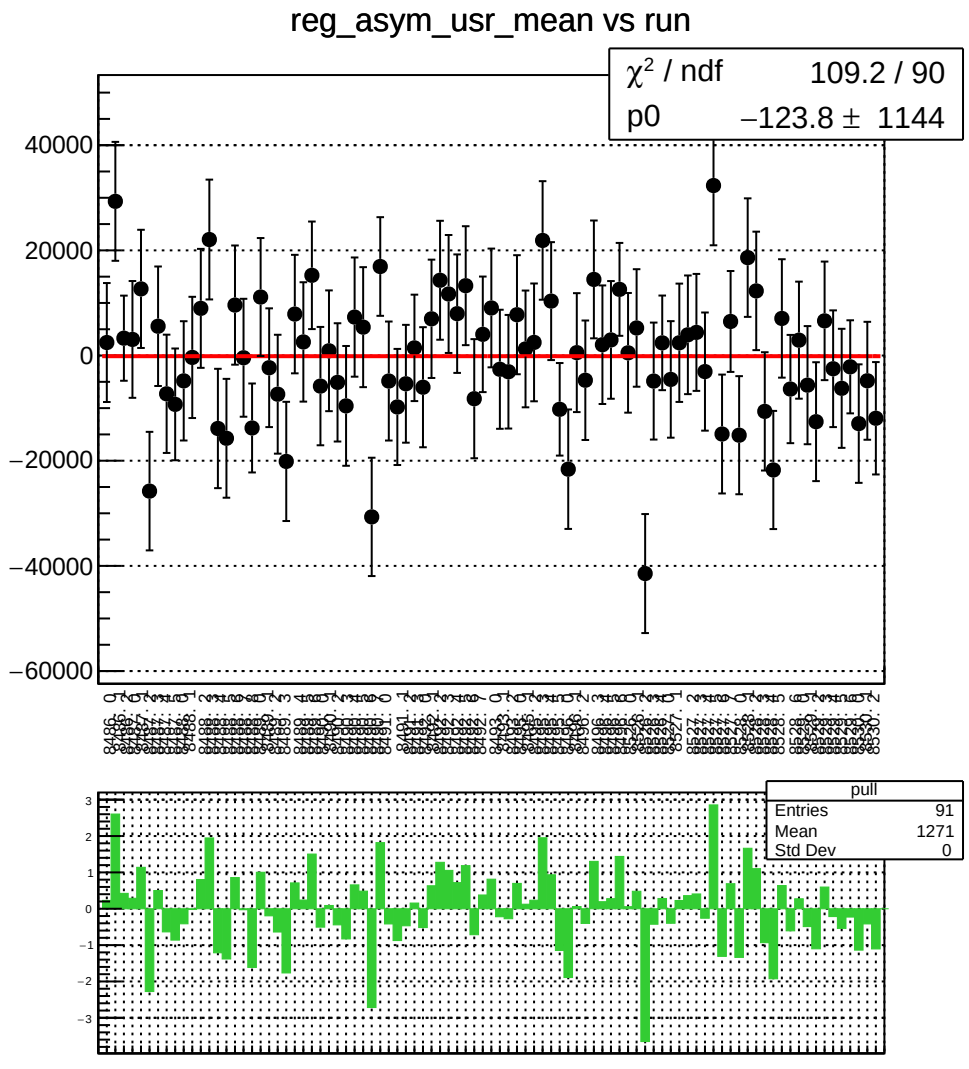

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.193e+05 / 90
p0 4.034e−11 ± 3.795e−14
0.25
0.2
0.15
0.1
0.05

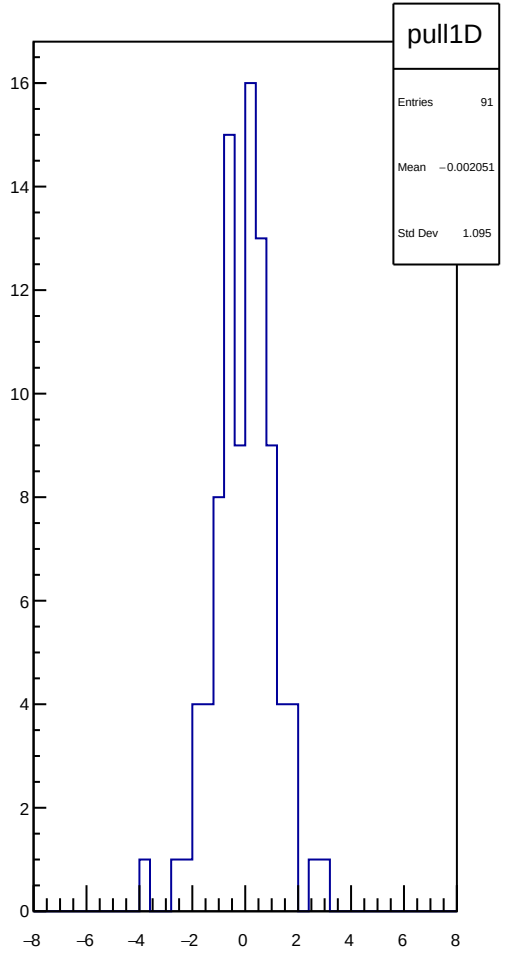

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 85.67 / 90
p0 0.01779 ± 0.03211
pull
Entries 91
Mean 69.86
Std Dev 0
pull1D
Entries 91
Mean 0.05818
Std Dev 0.9685

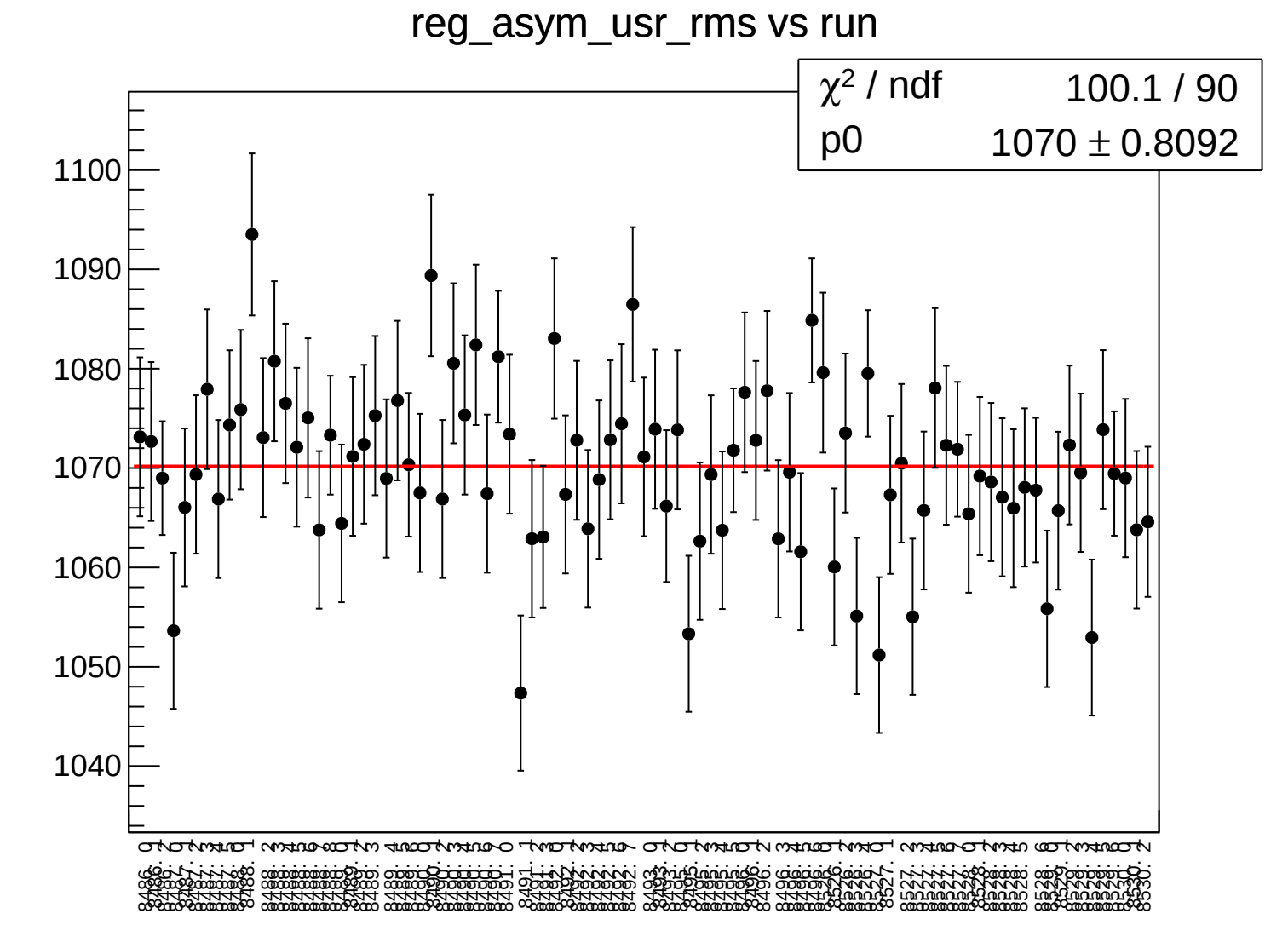

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.521e+05 / 90
p0 28.7 ± 0.02271
60
50
40
30
20

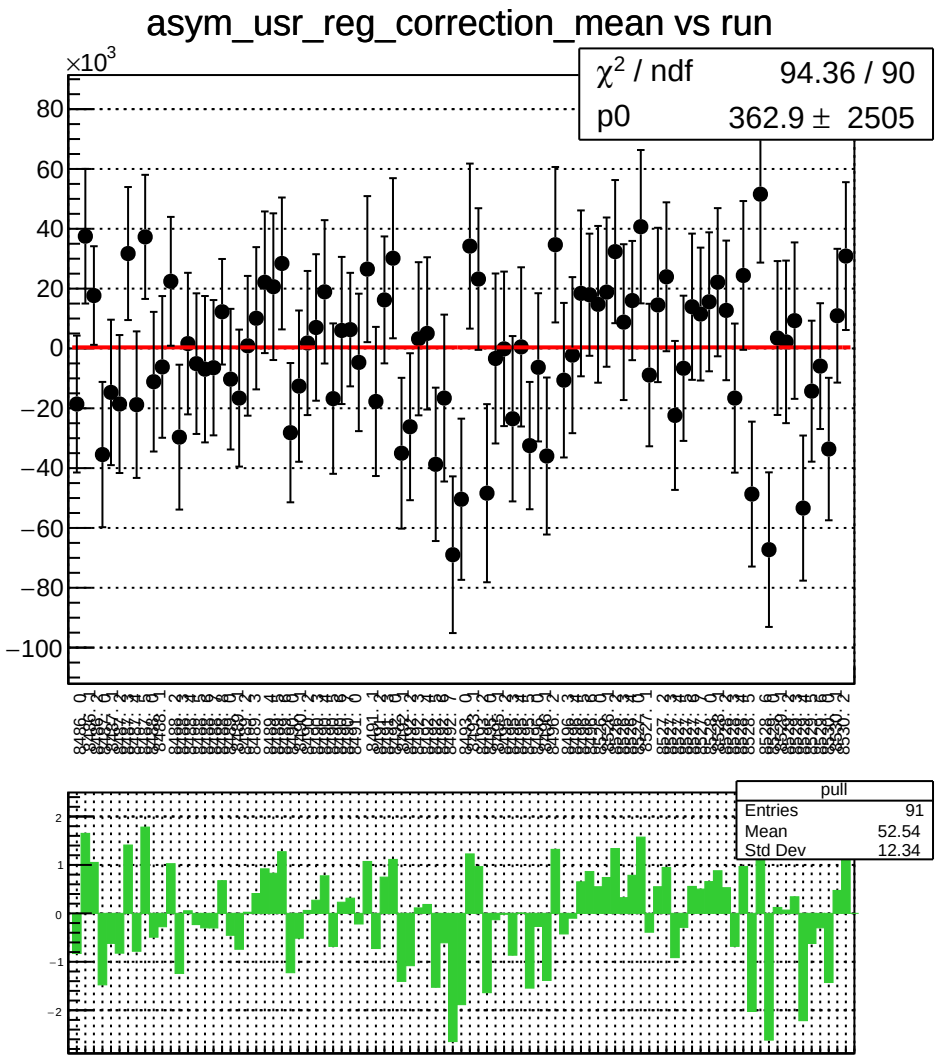

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.67 / 90
p0 0.01779 ± 0.03211
pull
Entries 91
Mean 69.86
Std Dev 0
pull1D
Entries 91
Mean 0.05818
Std Dev 0.9685

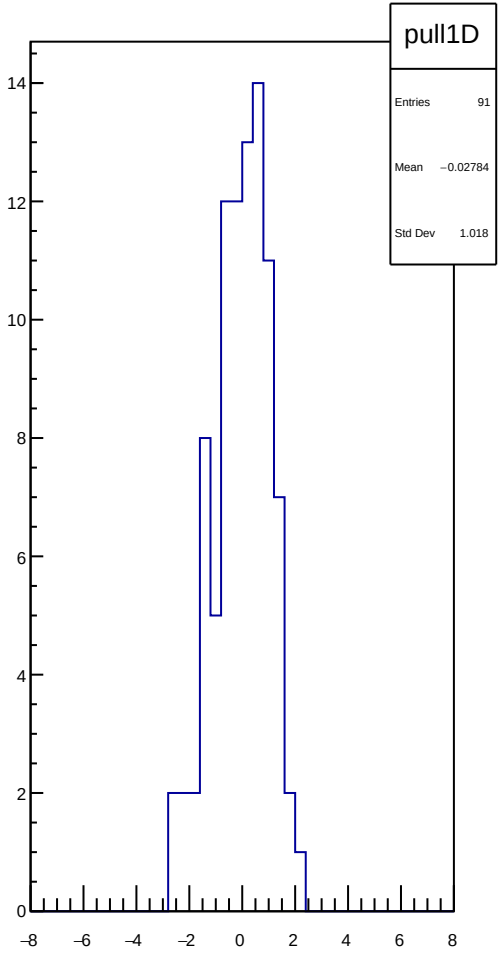

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.521e+05 / 90
p0 28.7 ± 0.02271
60
50
40
30
20

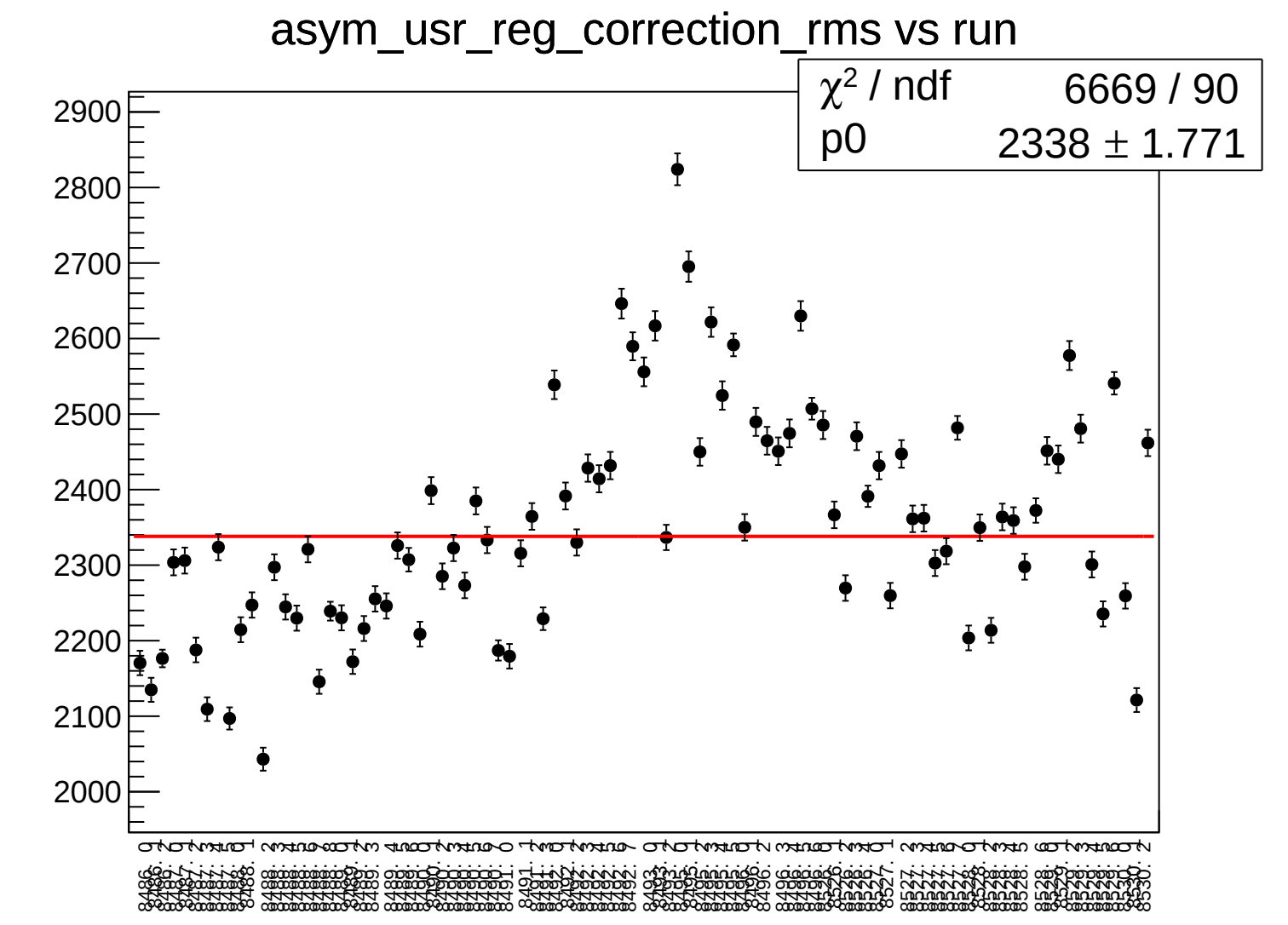

reg_asym_usr_mean vs run
χ² / ndf 109.2 / 90
p0 −123.8 ± 1144
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 1271
Std Dev 0
3
2
1
0
−1
−2
−3

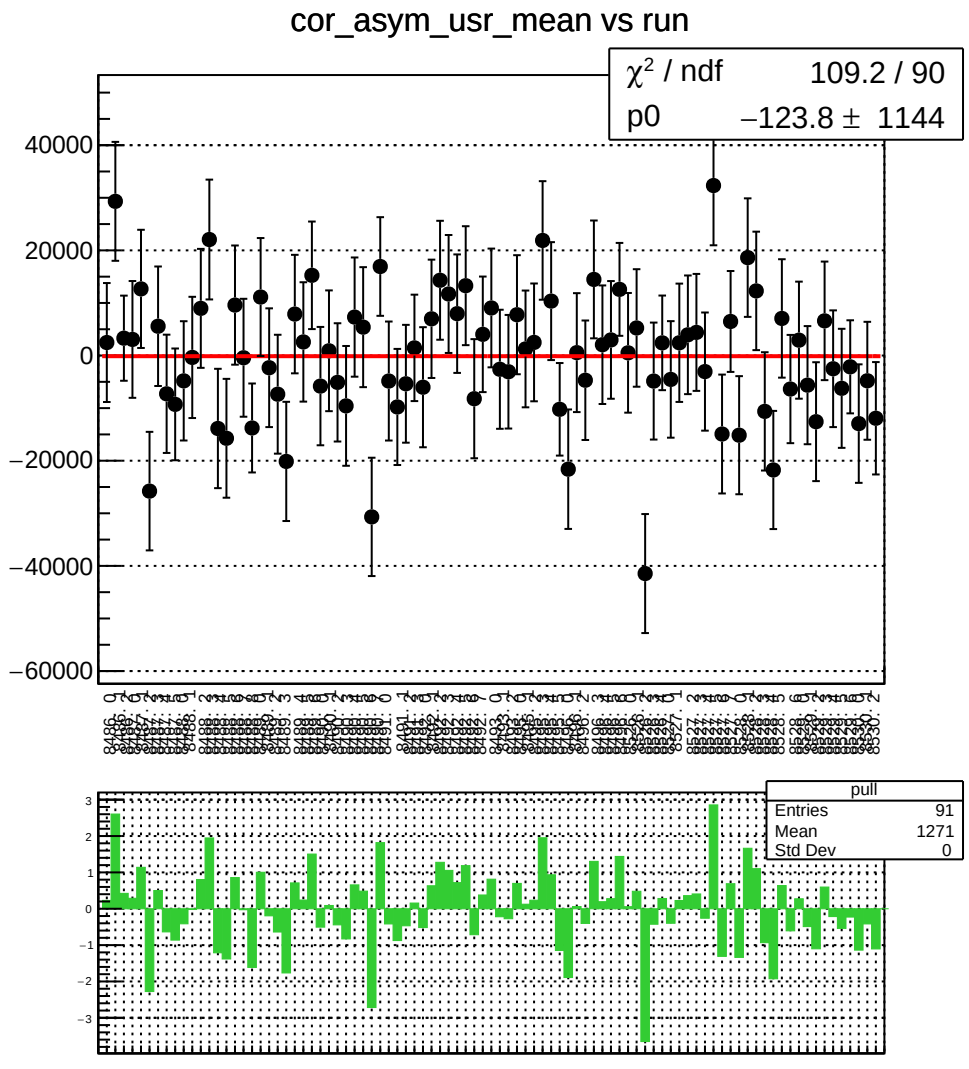

pull1D
Entries 91
Mean −0.002051
Std Dev 1.095
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

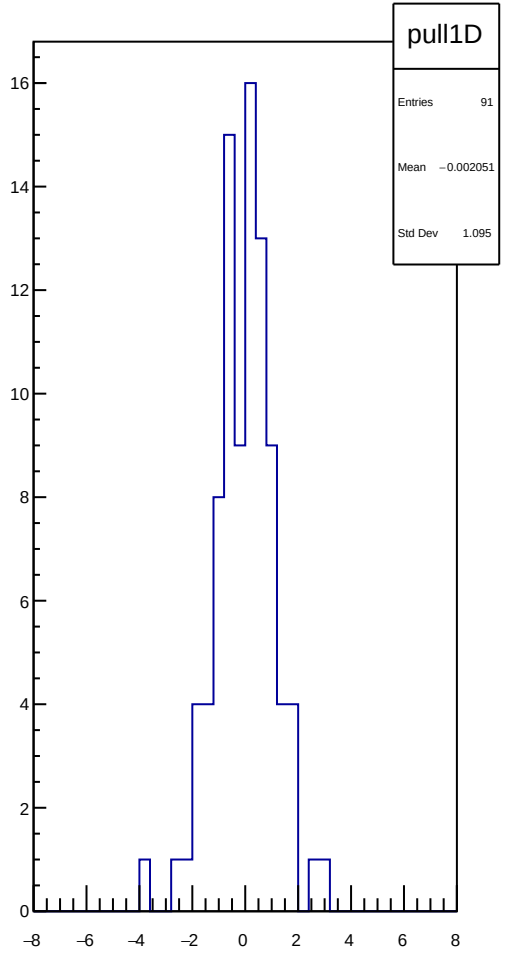

reg_asym_usr_rms vs run
χ^2 / ndf 100.1 / 90
p0 1070 ± 0.8092
1100
1090
1080
1070
1060
1050
1040

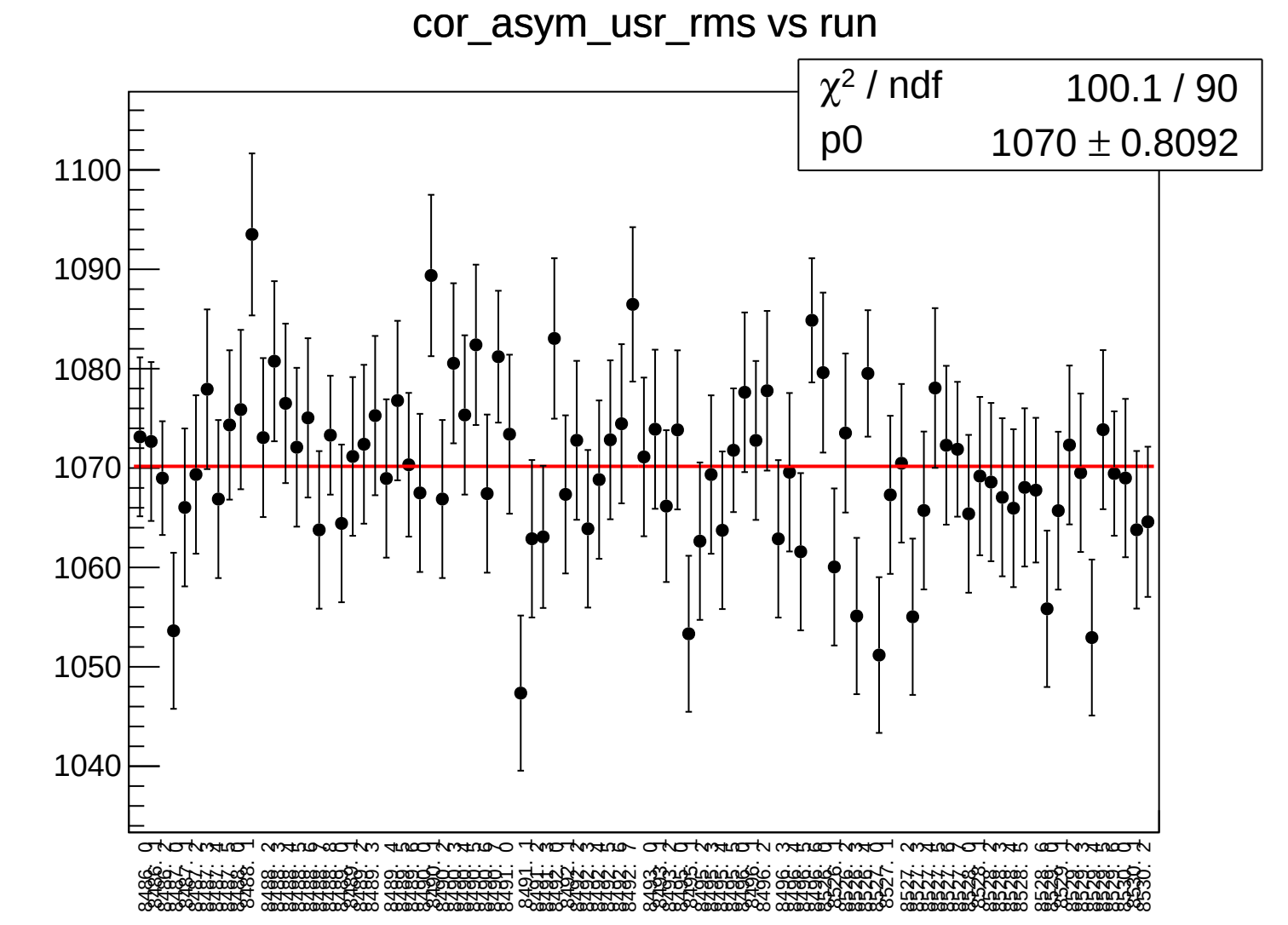

asym_usr_reg_correction_mean vs run
×10^3
χ² / ndf 94.36 / 90
p0 362.9 ± 2505
pull
Entries 91
Mean 52.54
Std Dev 12.34

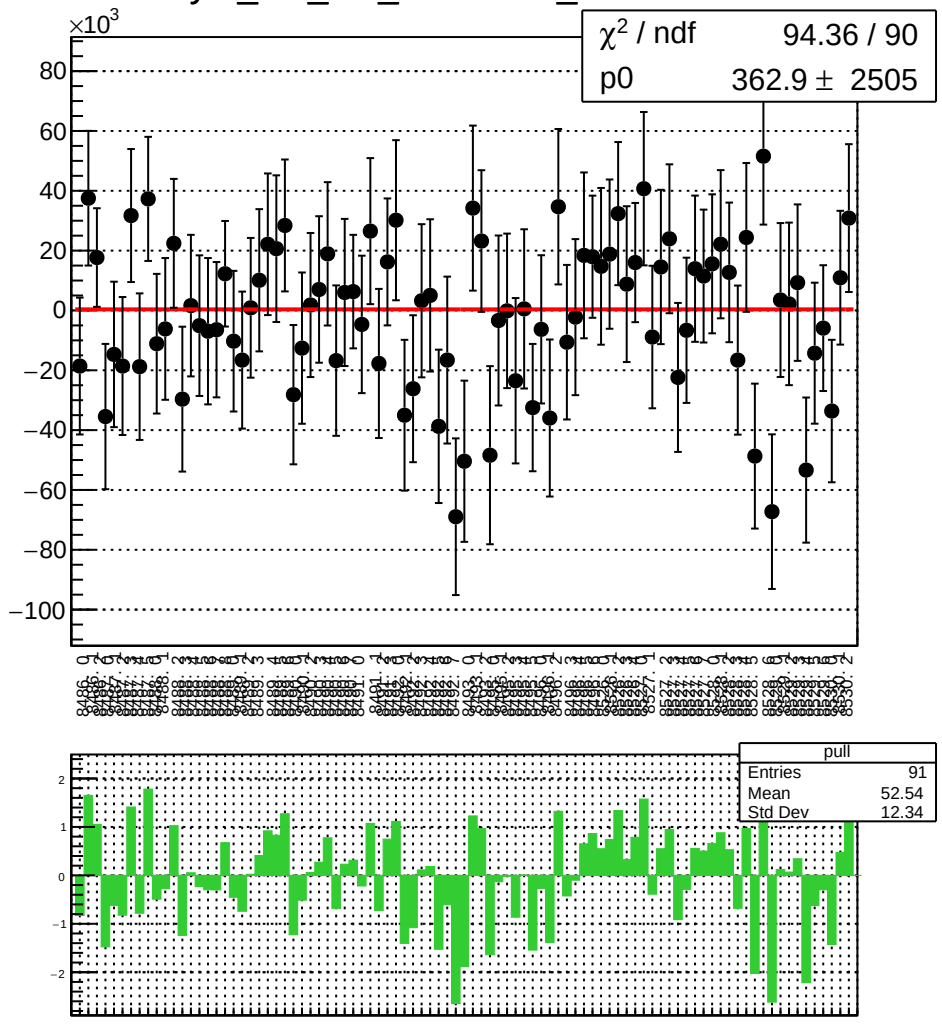

pull1D
Entries 91
Mean −0.02784
Std Dev 1.018

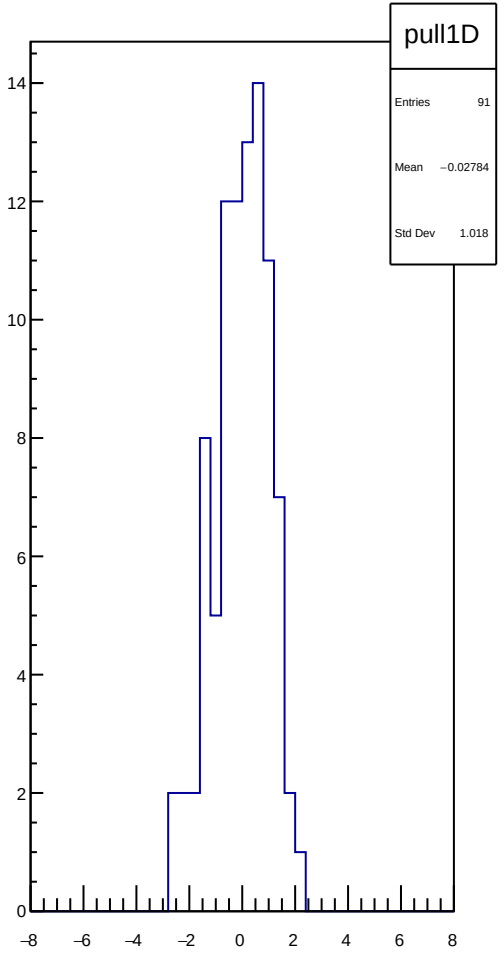

asym_usr_reg_correction_rms vs run
χ² / ndf 6669 / 90
p0 2338 ± 1.771
2900
2800
2700
2600
2500
2400
2300
2200
2100
2000

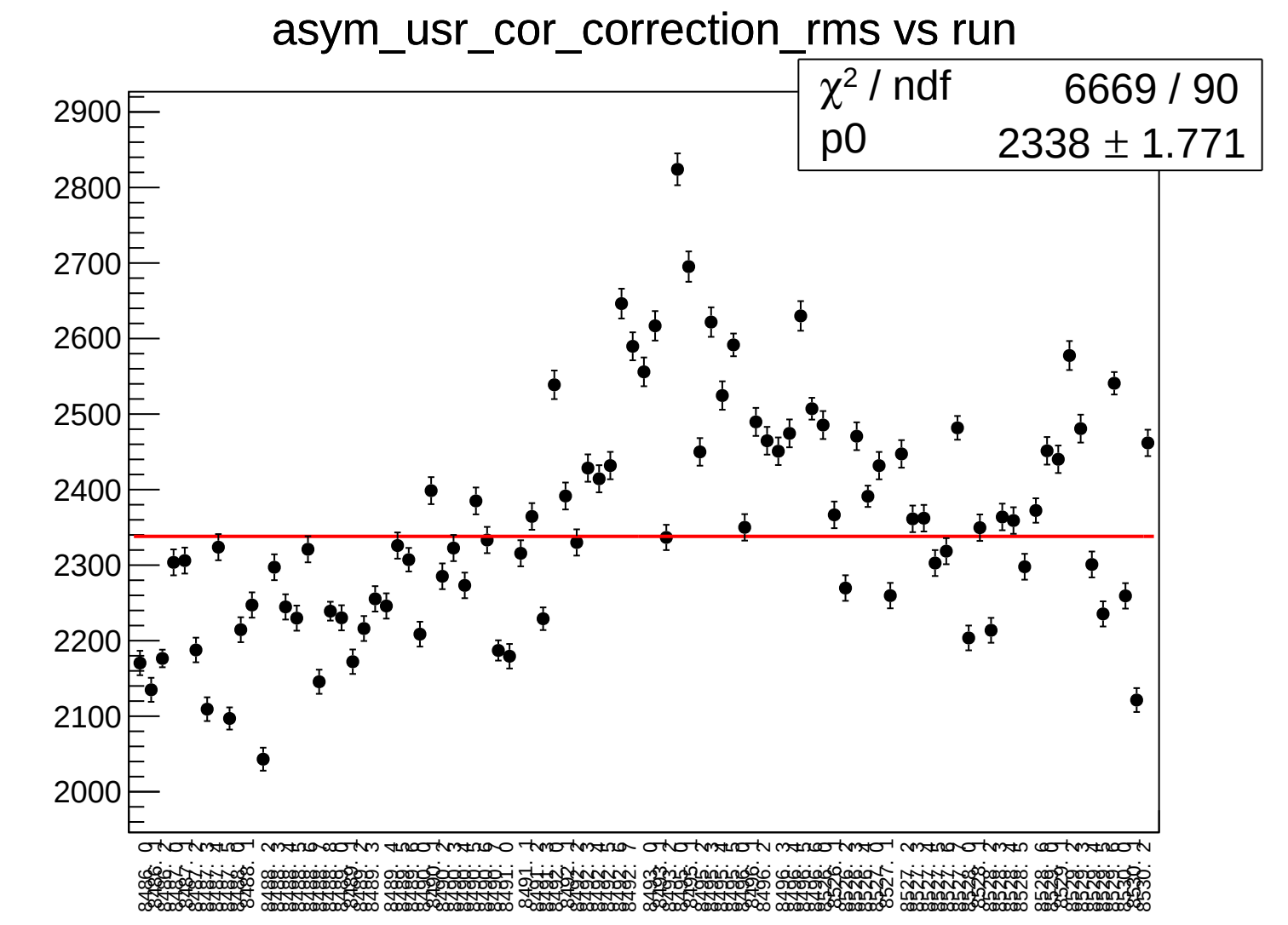

cor_asym_usr_mean vs run
χ² / ndf 109.2 / 90
p0 −123.8 ± 1144
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 1271
Std Dev 0
3
2
1
0
−1
−2
−3

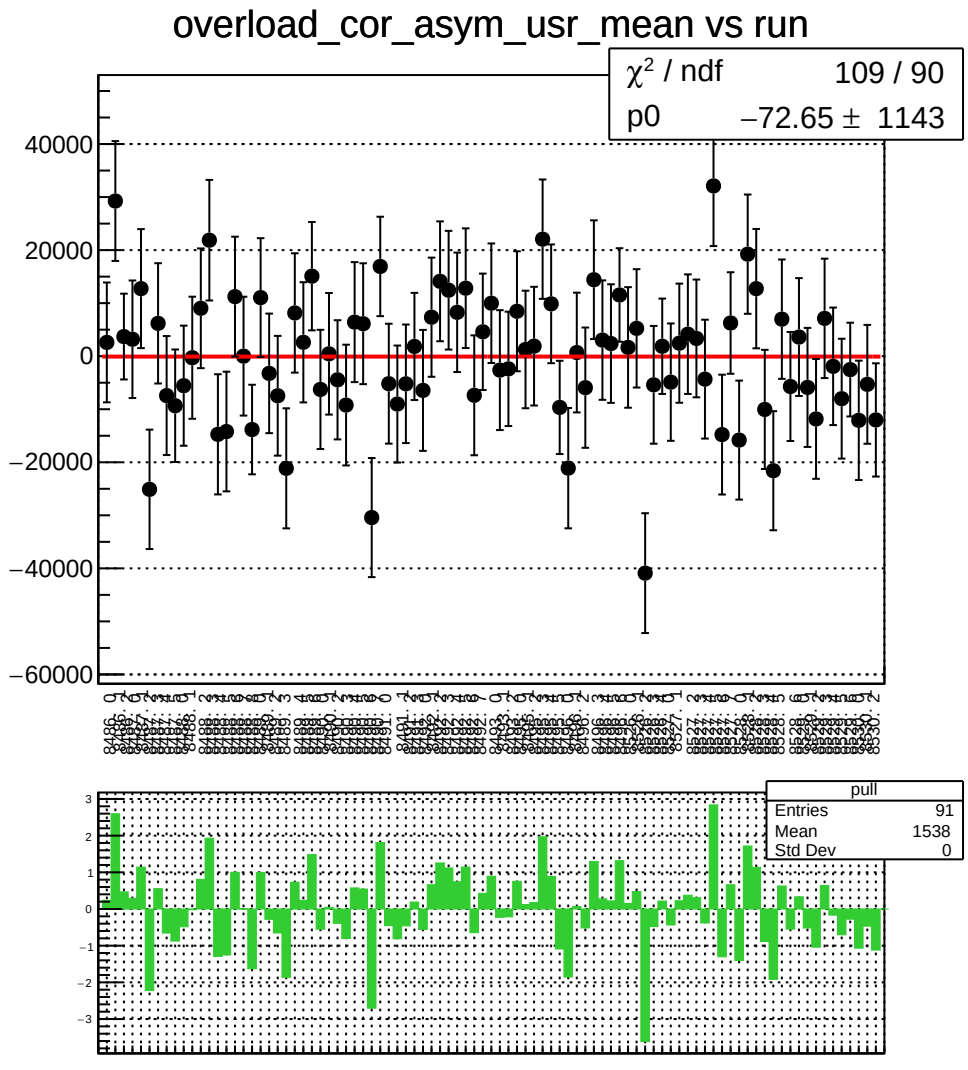

pull1D
Entries 91
Mean −0.002051
Std Dev 1.095
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

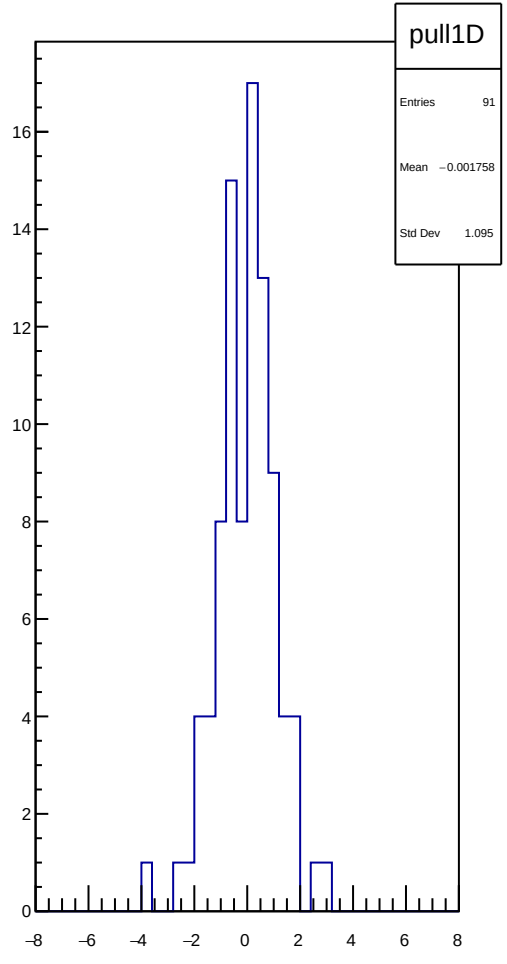

cor_asym_usr_rms vs run
χ² / ndf 100.1 / 90
p0 1070 ± 0.8092
1100
1090
1080
1070
1060
1050
1040

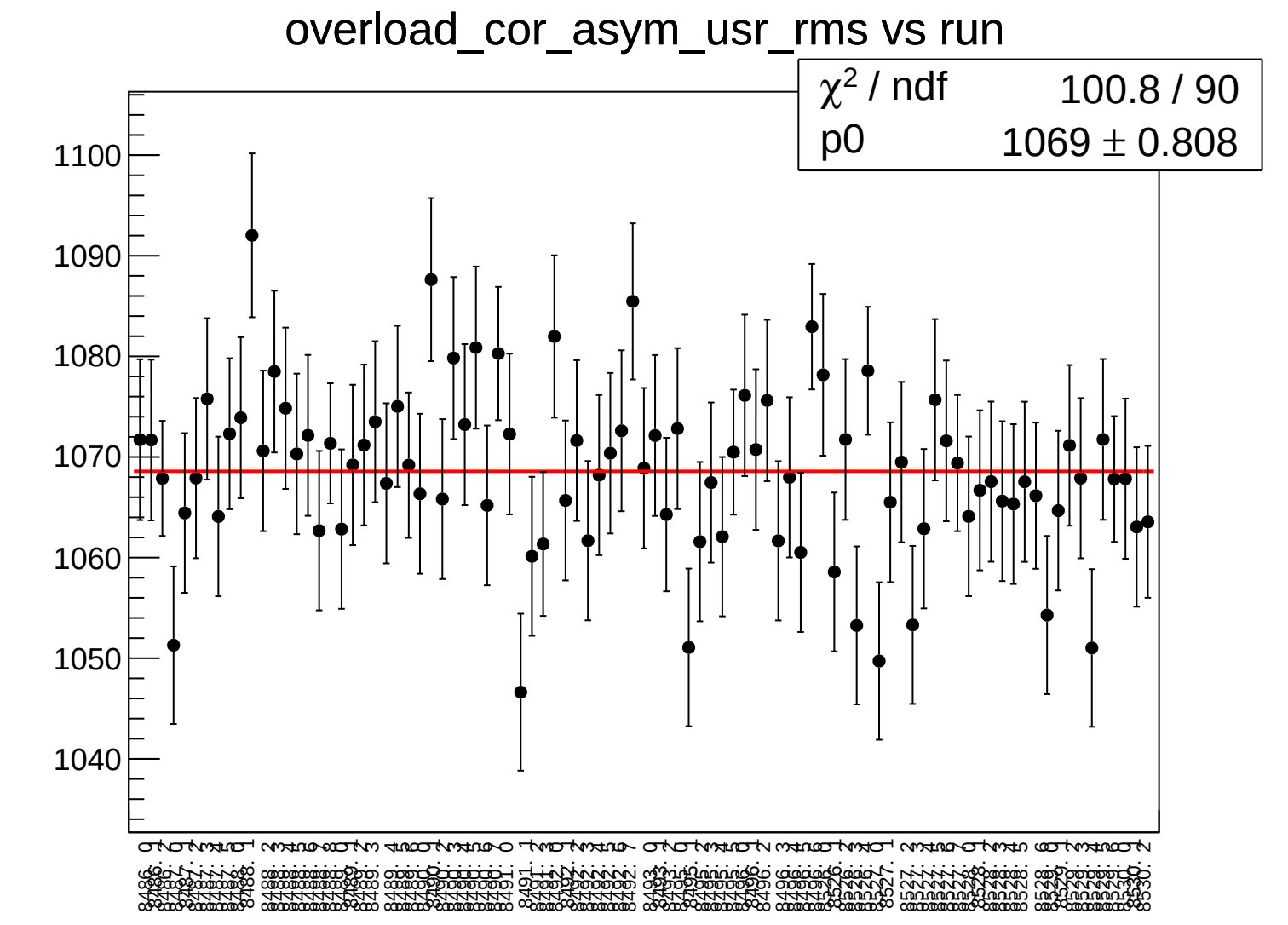

asym_usr_cor_correction_mean vs run
×10^3
χ² / ndf 94.36 / 90
p0 362.9 ± 2505
pull
Entries 91
Mean 52.54
Std Dev 12.34

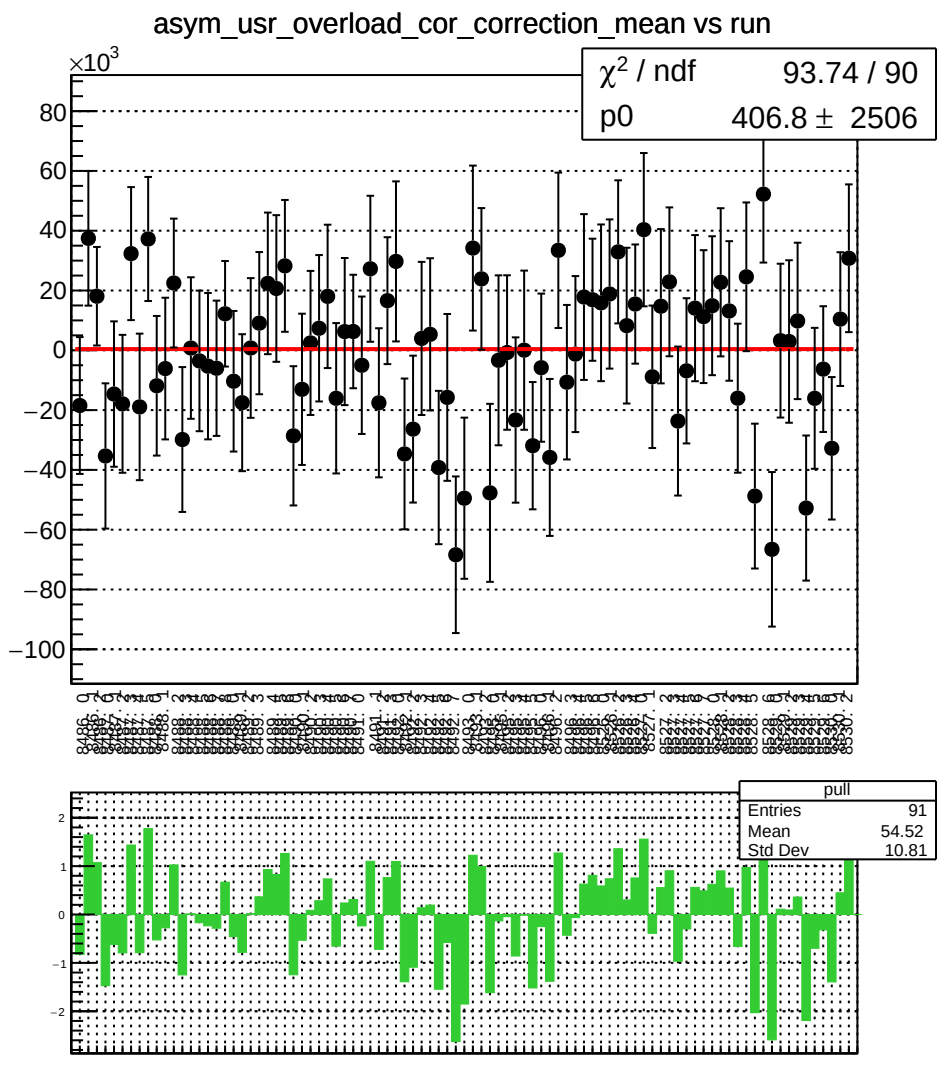

pull1D
Entries 91
Mean −0.02784
Std Dev 1.018

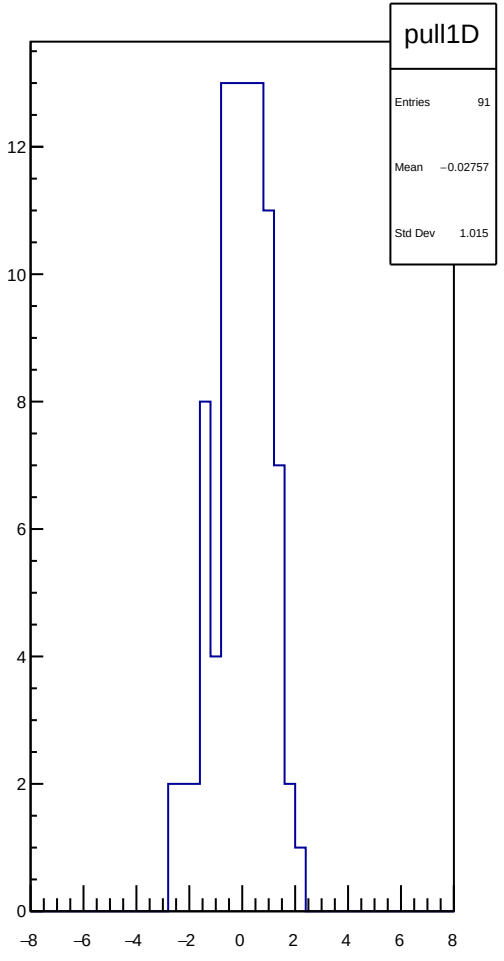

asym_usr_cor_correction_rms vs run
χ^2 / ndf 6669 / 90
p0 2338 ± 1.771
2900
2800
2700
2600
2500
2400
2300
2200
2100
2000

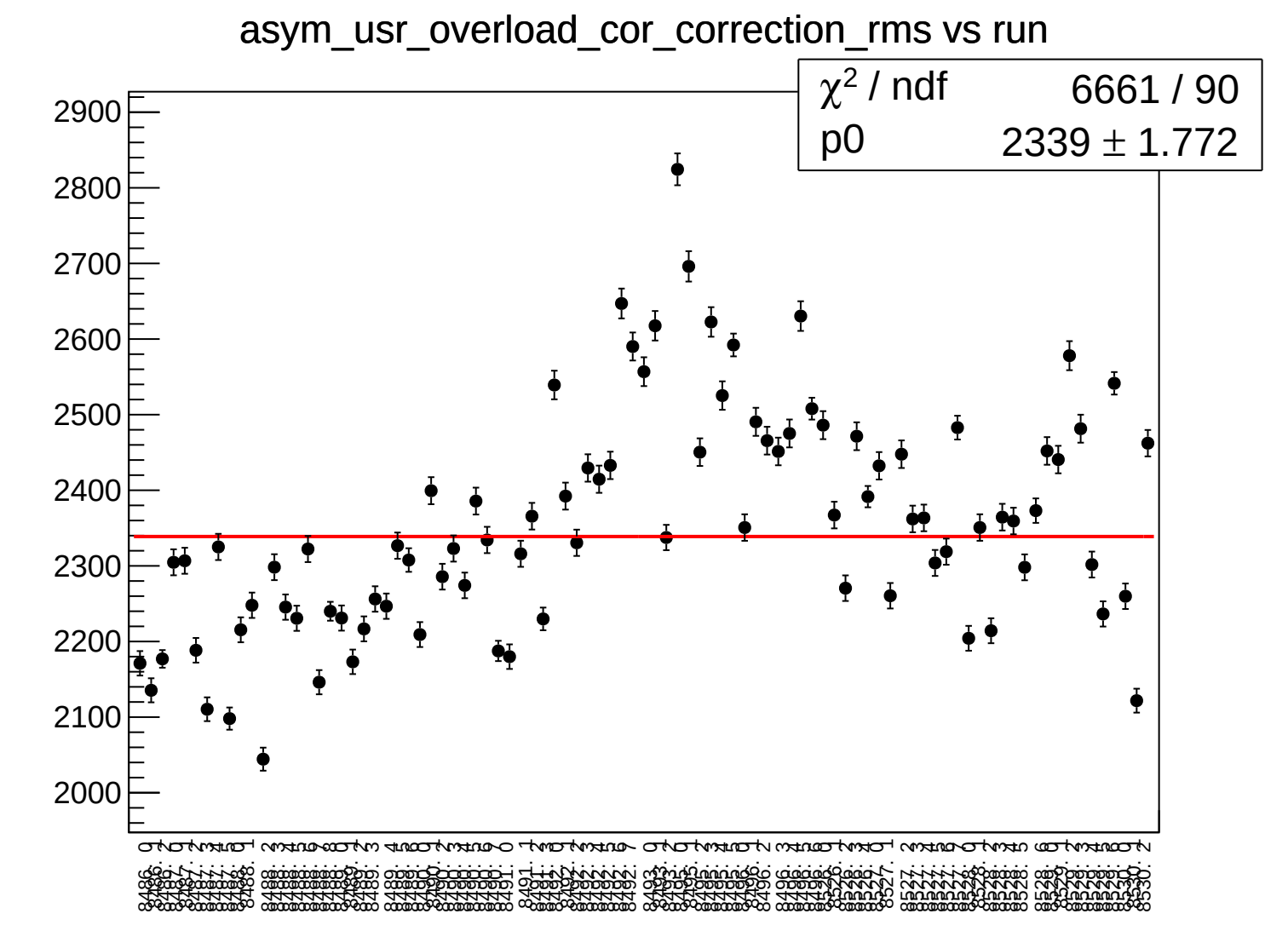

overload_cor_asym_usr_mean vs run
χ² / ndf 109 / 90
p0 −72.65 ± 1143
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 1538
Std Dev 0
3
2
1
0
−1
−2
−3

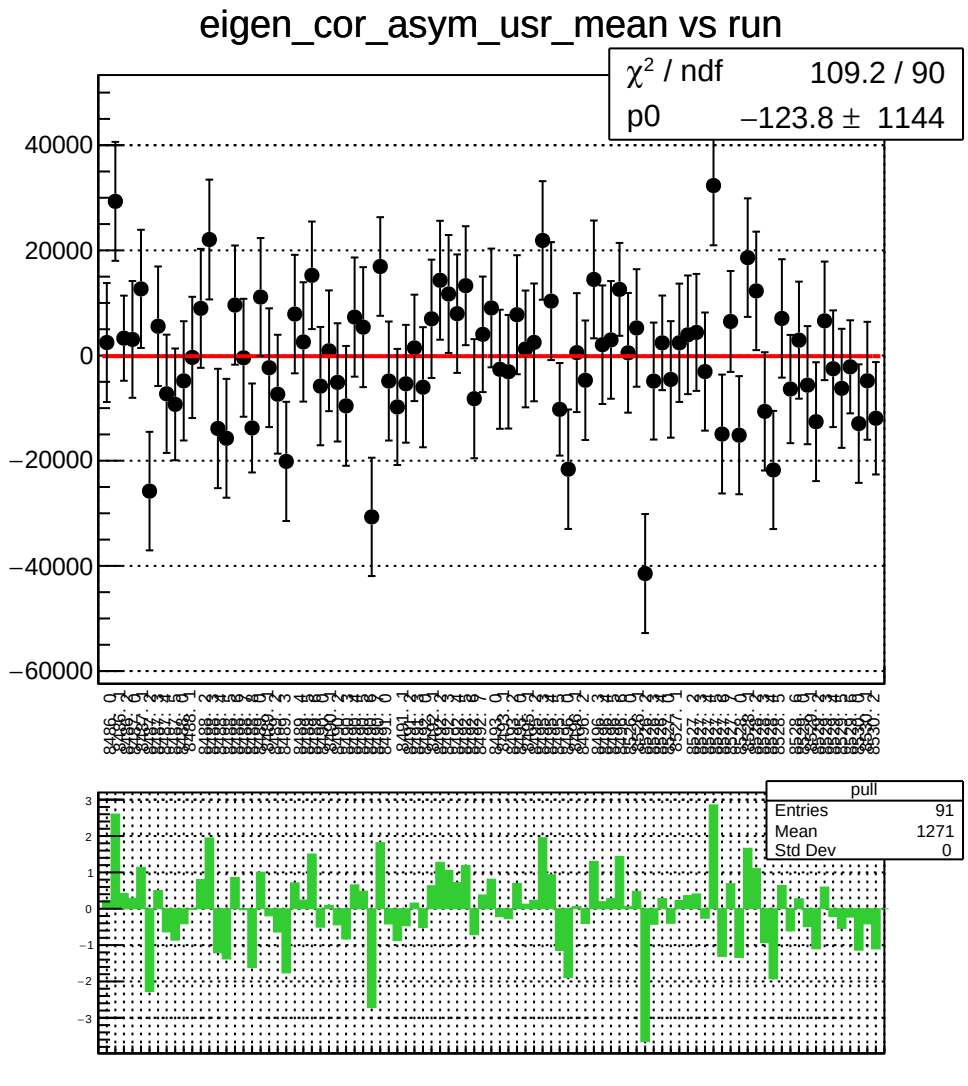

pull1D
Entries 91
Mean −0.001758
Std Dev 1.095
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

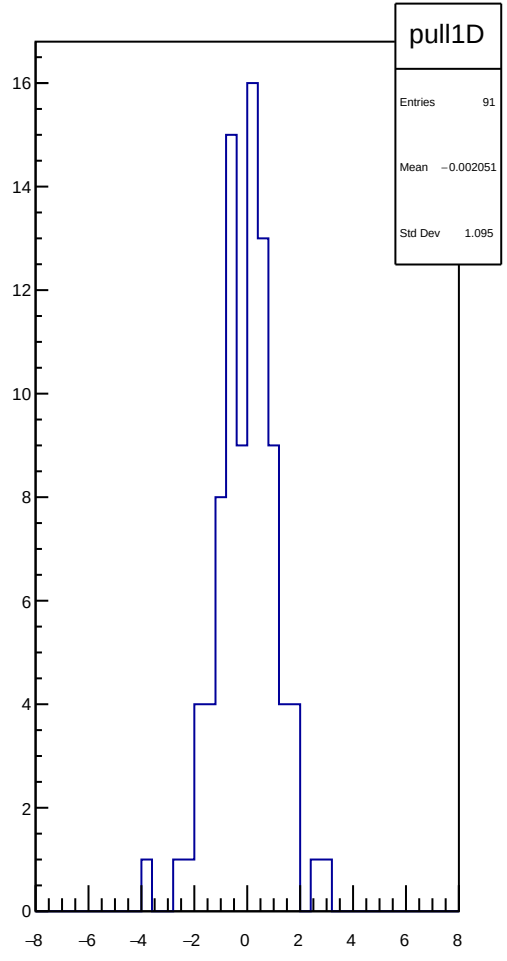

overload_cor_asym_usr_rms vs run
χ² / ndf 100.8 / 90
p0 1069 ± 0.808
1100
1090
1080
1070
1060
1050
1040

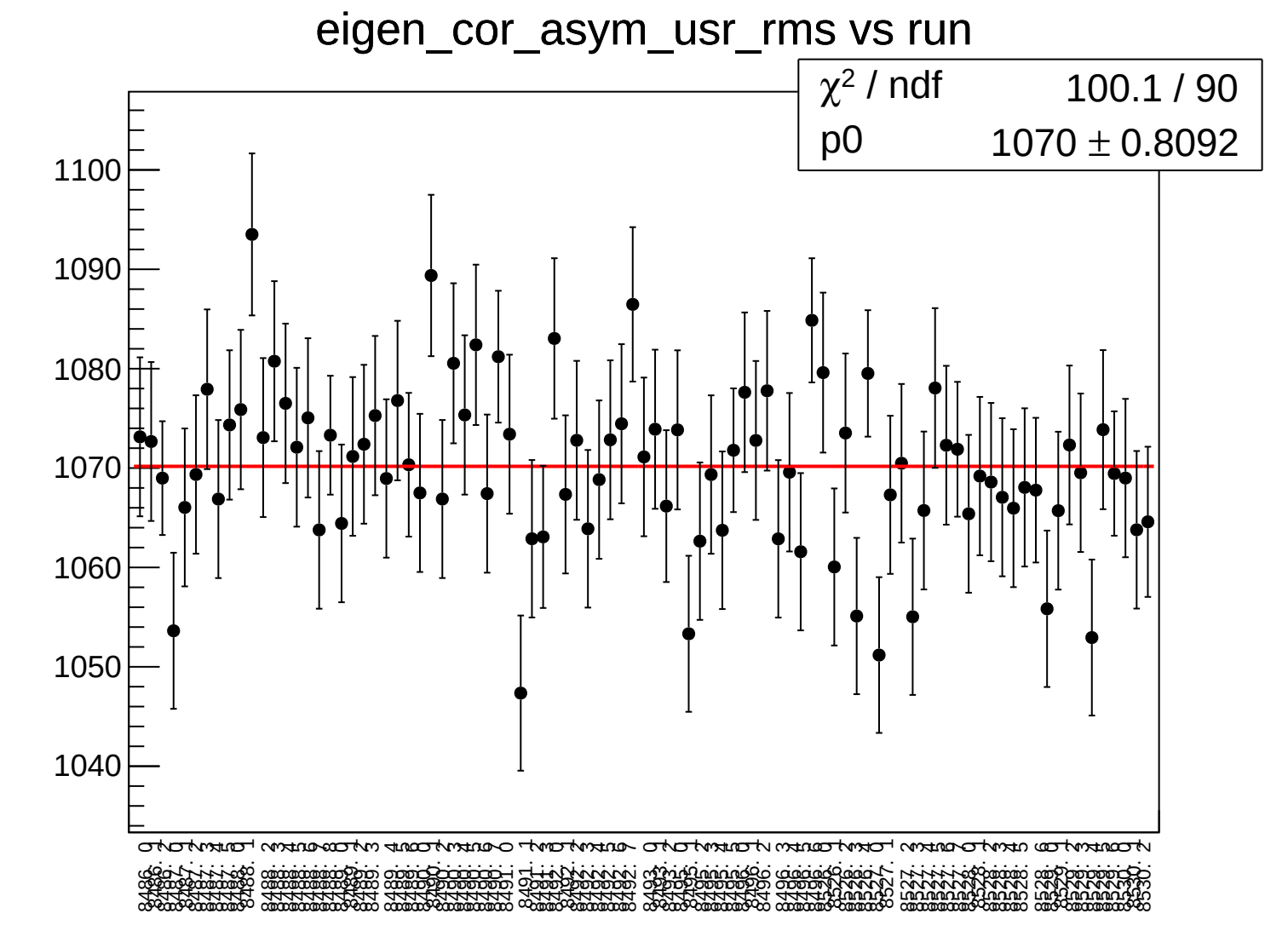

asym_usr_overload_cor_correction_mean vs run
×10^3
χ² / ndf 93.74 / 90
p0 406.8 ± 2506
pull
Entries 91
Mean 54.52
Std Dev 10.81

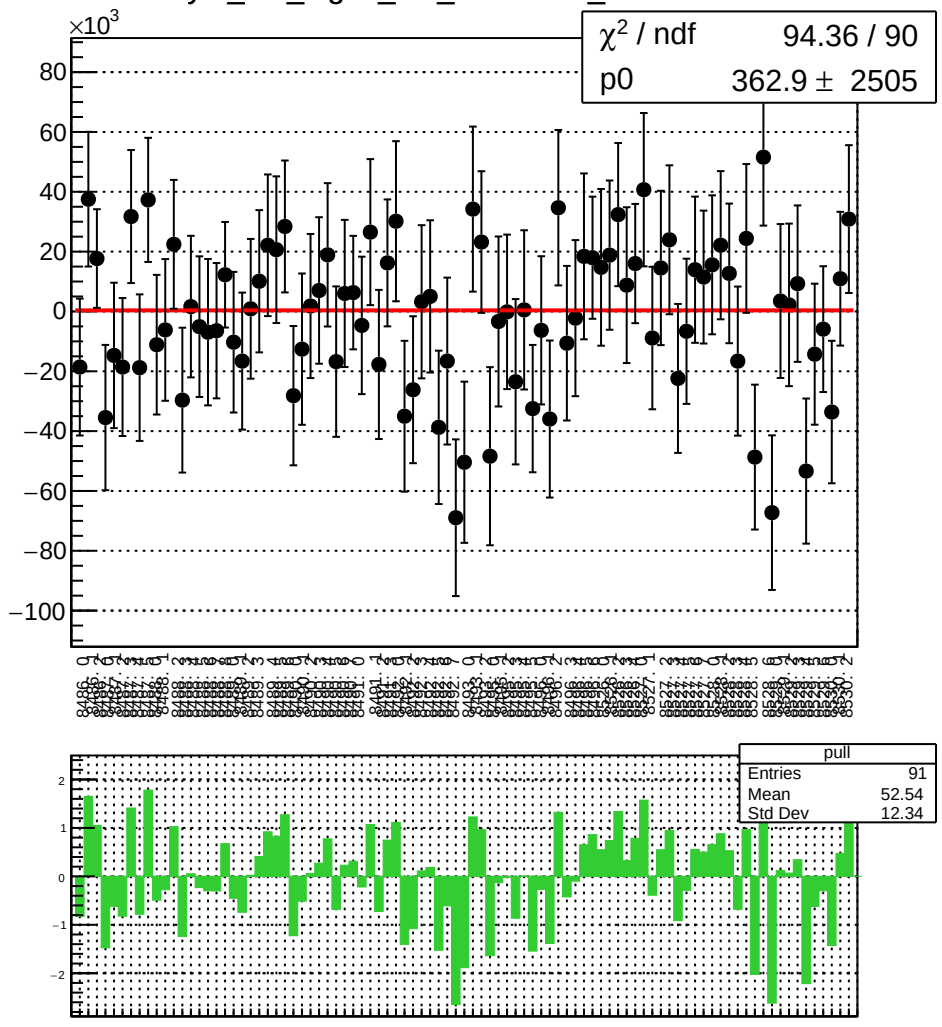

pull1D
Entries 91
Mean −0.02757
Std Dev 1.015

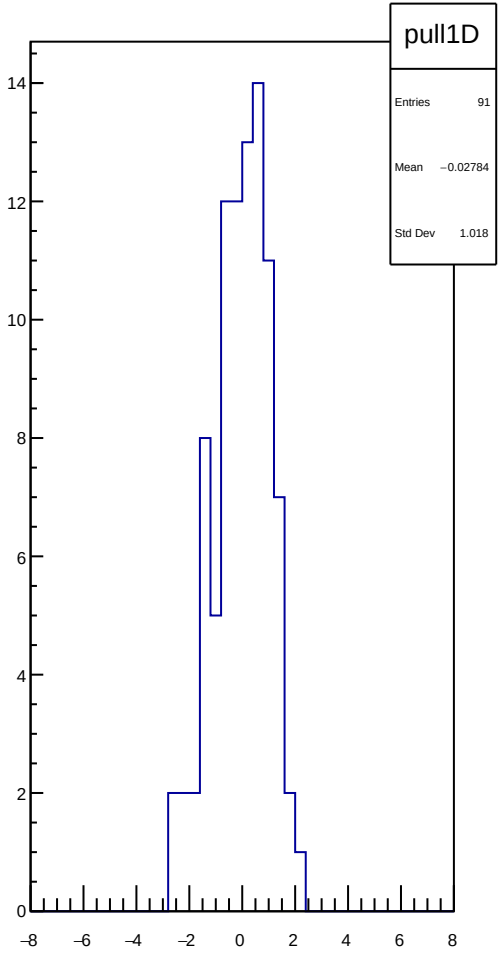

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 6661 / 90
p0 2339 ± 1.772
2900
2800
2700
2600
2500
2400
2300
2200
2100
2000

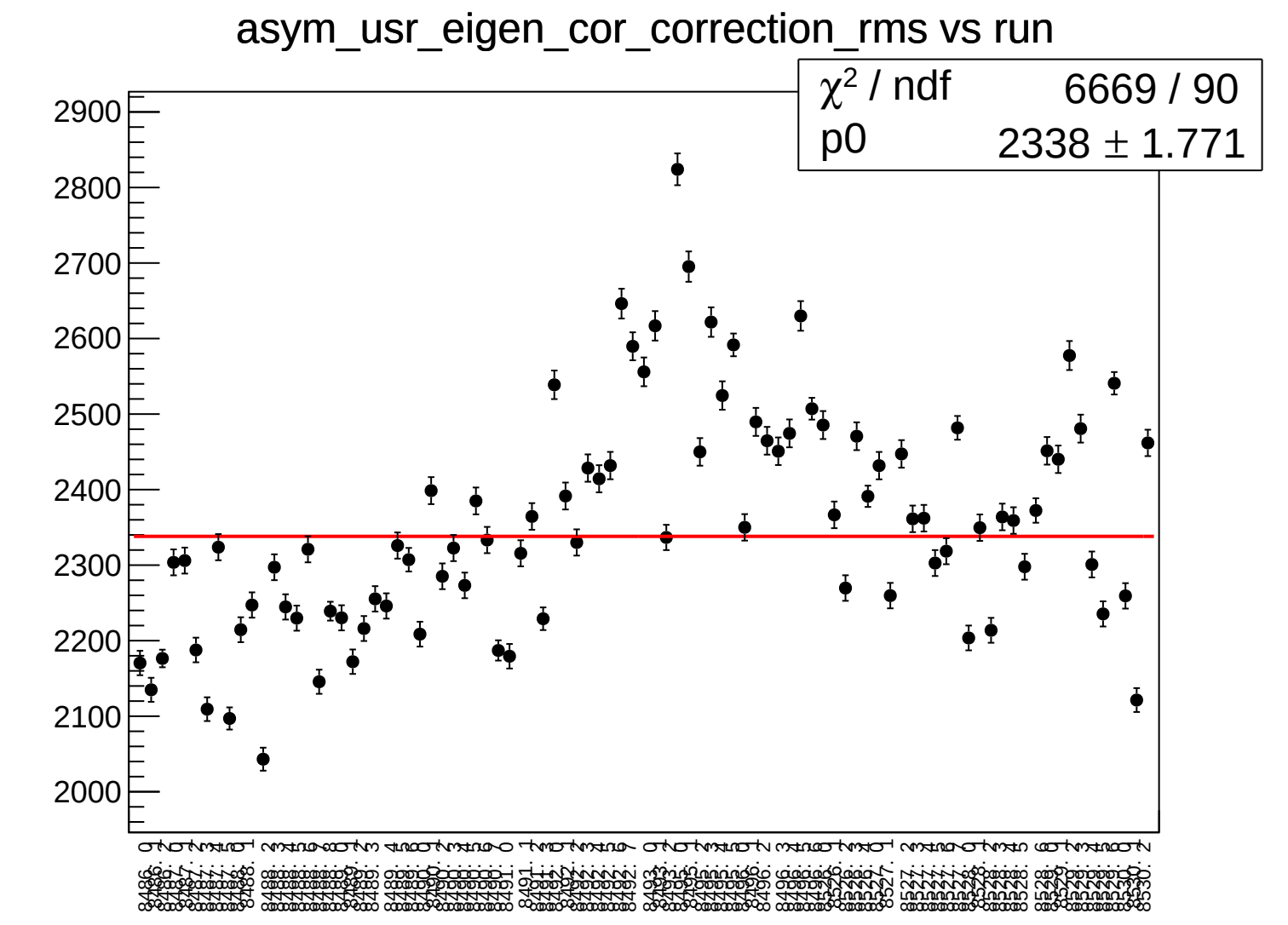

eigen_cor_asym_usr_mean vs run
χ² / ndf 109.2 / 90
p0 −123.8 ± 1144
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 1271
Std Dev 0
3
2
1
0
−1
−2
−3

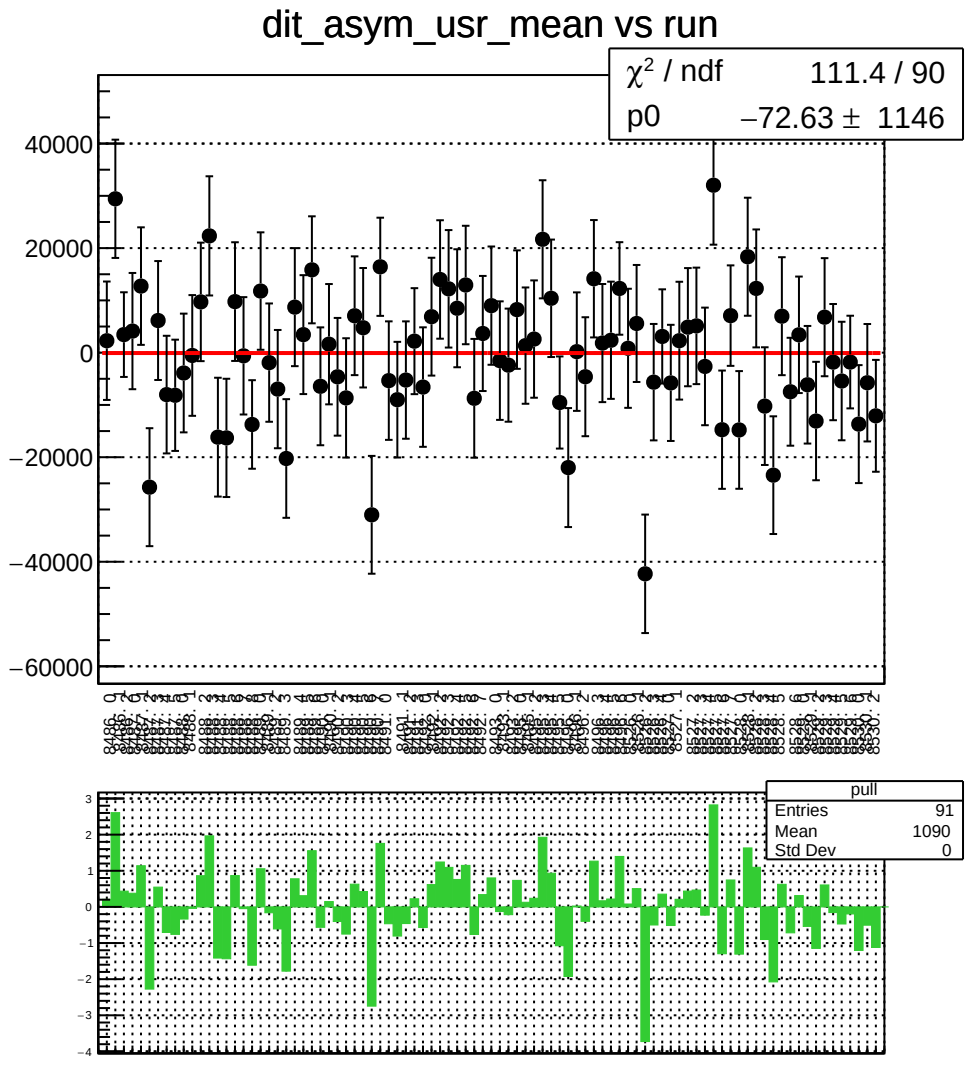

pull1D
Entries 91
Mean −0.002051
Std Dev 1.095
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

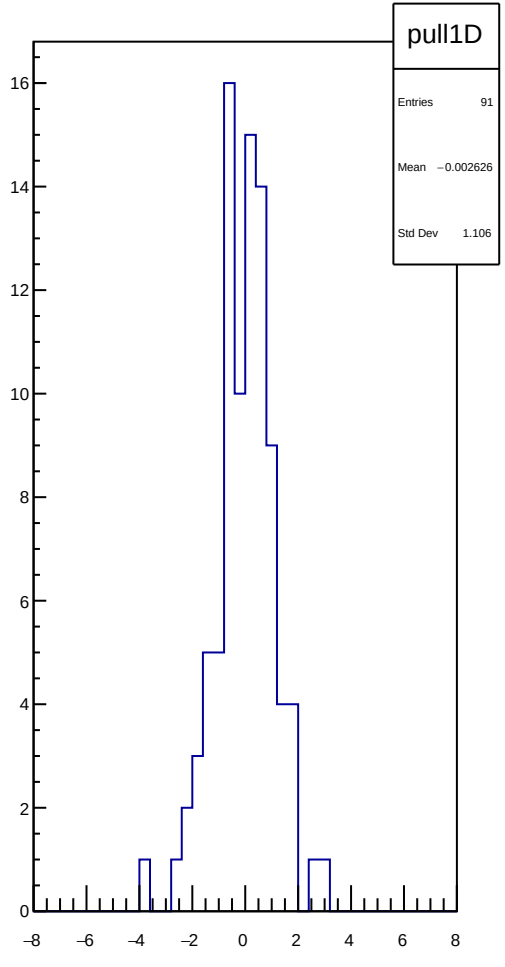

eigen_cor_asym_usr_rms vs run
χ^2 / ndf 100.1 / 90
p0 1070 ± 0.8092
1100
1090
1080
1070
1060
1050
1040

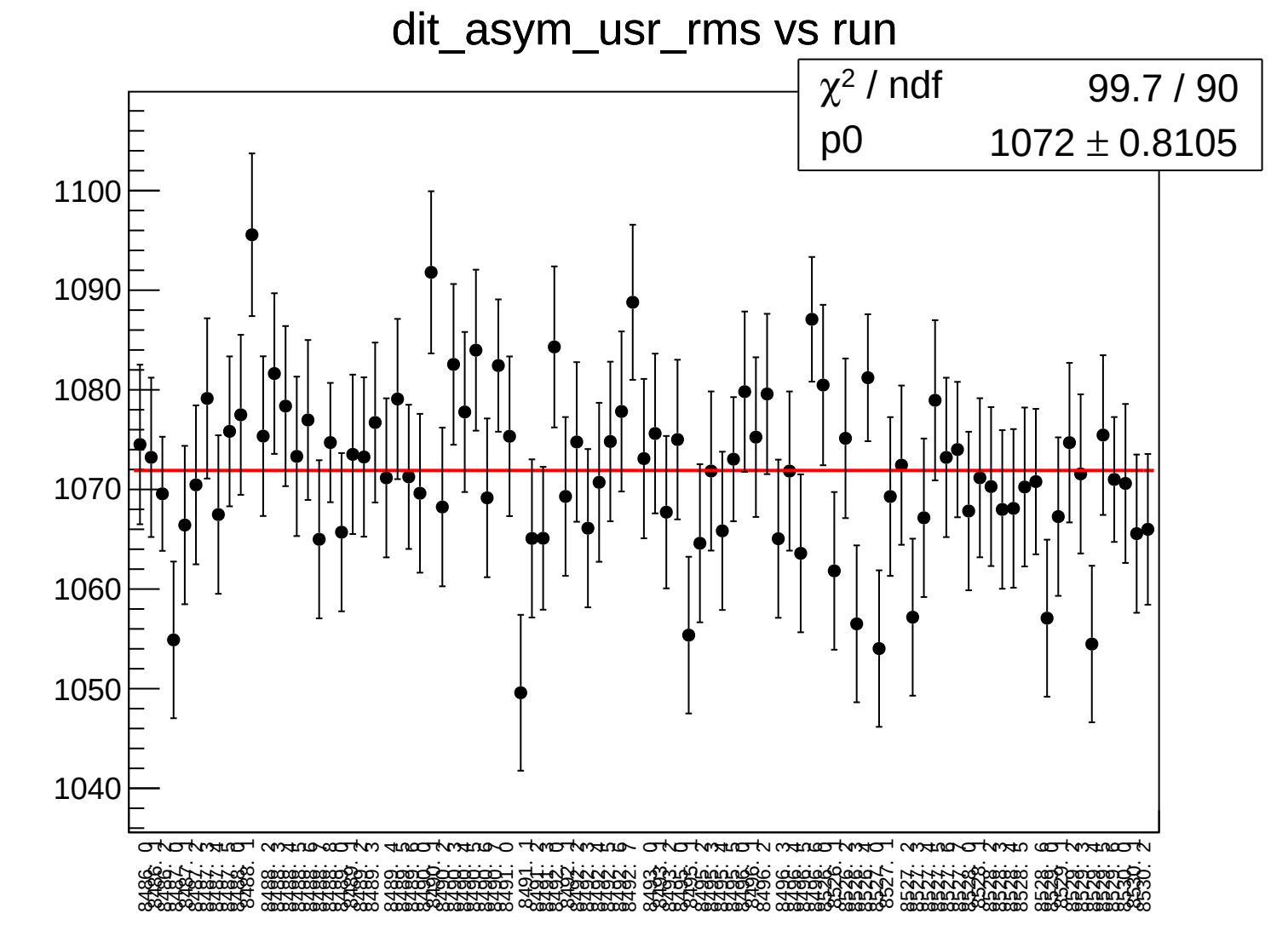

asym_usr_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 94.36 / 90
p0 362.9 ± 2505
pull
Entries 91
Mean 52.54
Std Dev 12.34

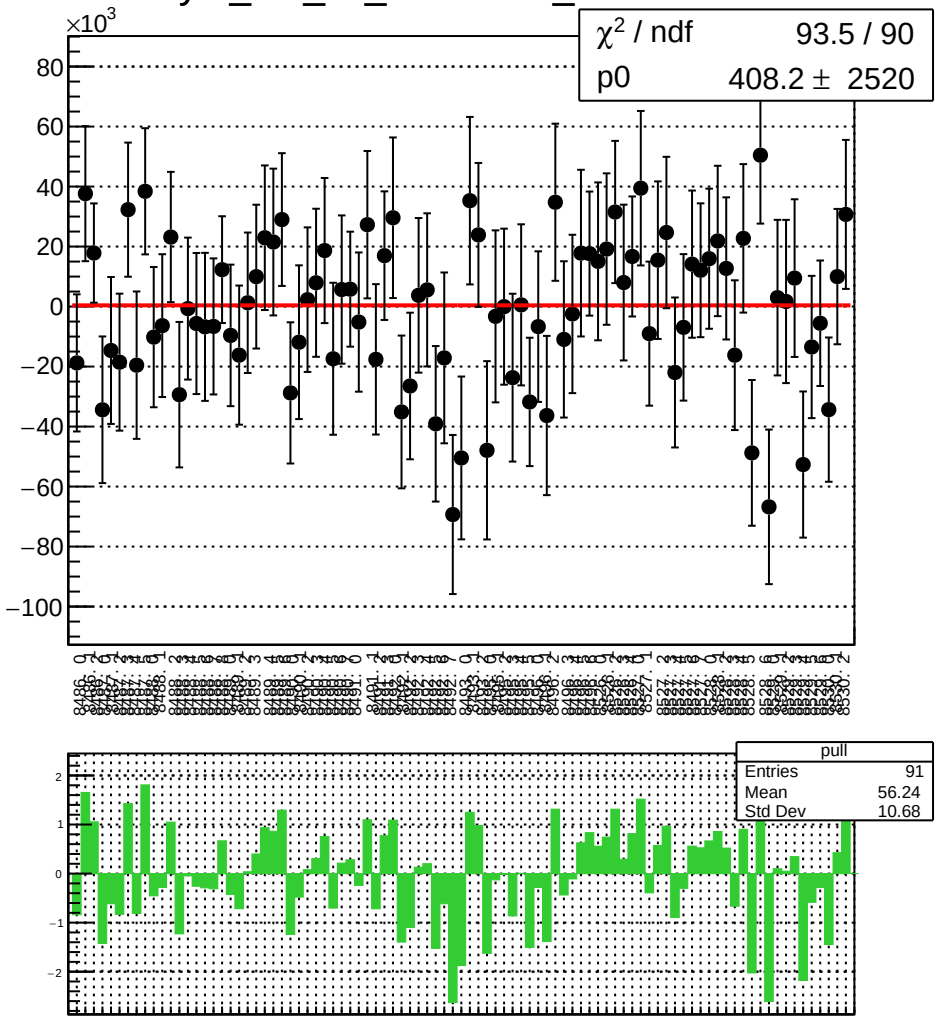

pull1D
Entries 91
Mean −0.02784
Std Dev 1.018

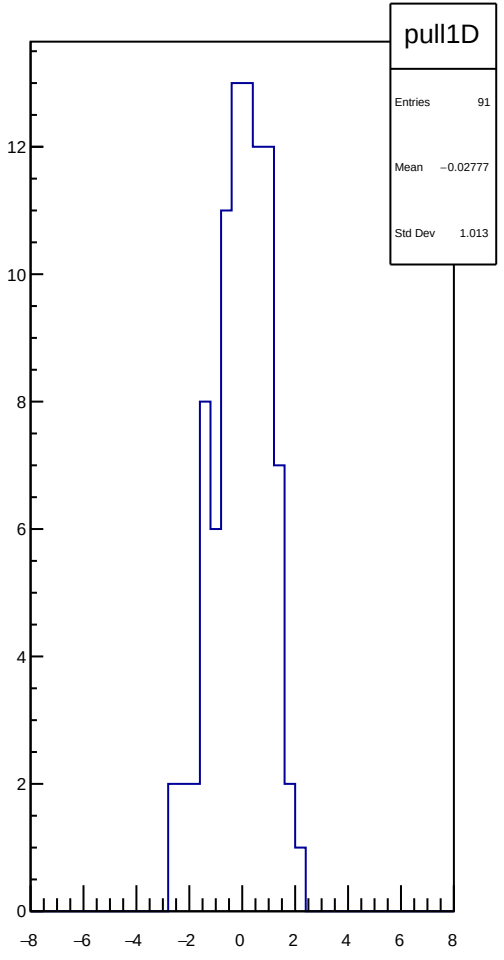

asym_usr_eigen_cor_correction_rms vs run
χ² / ndf 6669 / 90
p0 2338 ± 1.771
2900
2800
2700
2600
2500
2400
2300
2200
2100
2000

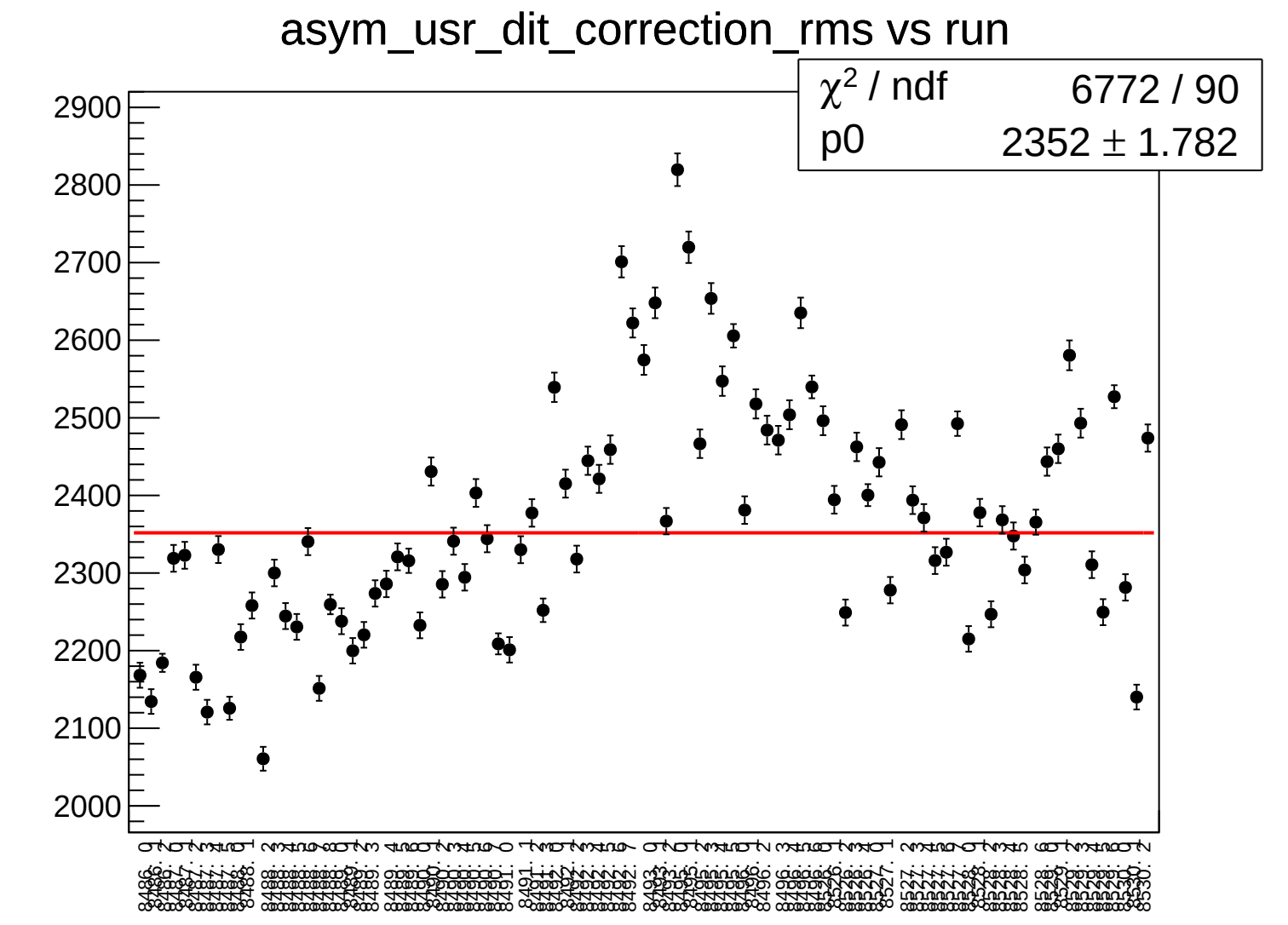

dit_asym_usr_mean vs run
χ² / ndf 111.4 / 90
p0 −72.63 ± 1146
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 1090
Std Dev 0
3
2
1
0
−1
−2
−3
−4

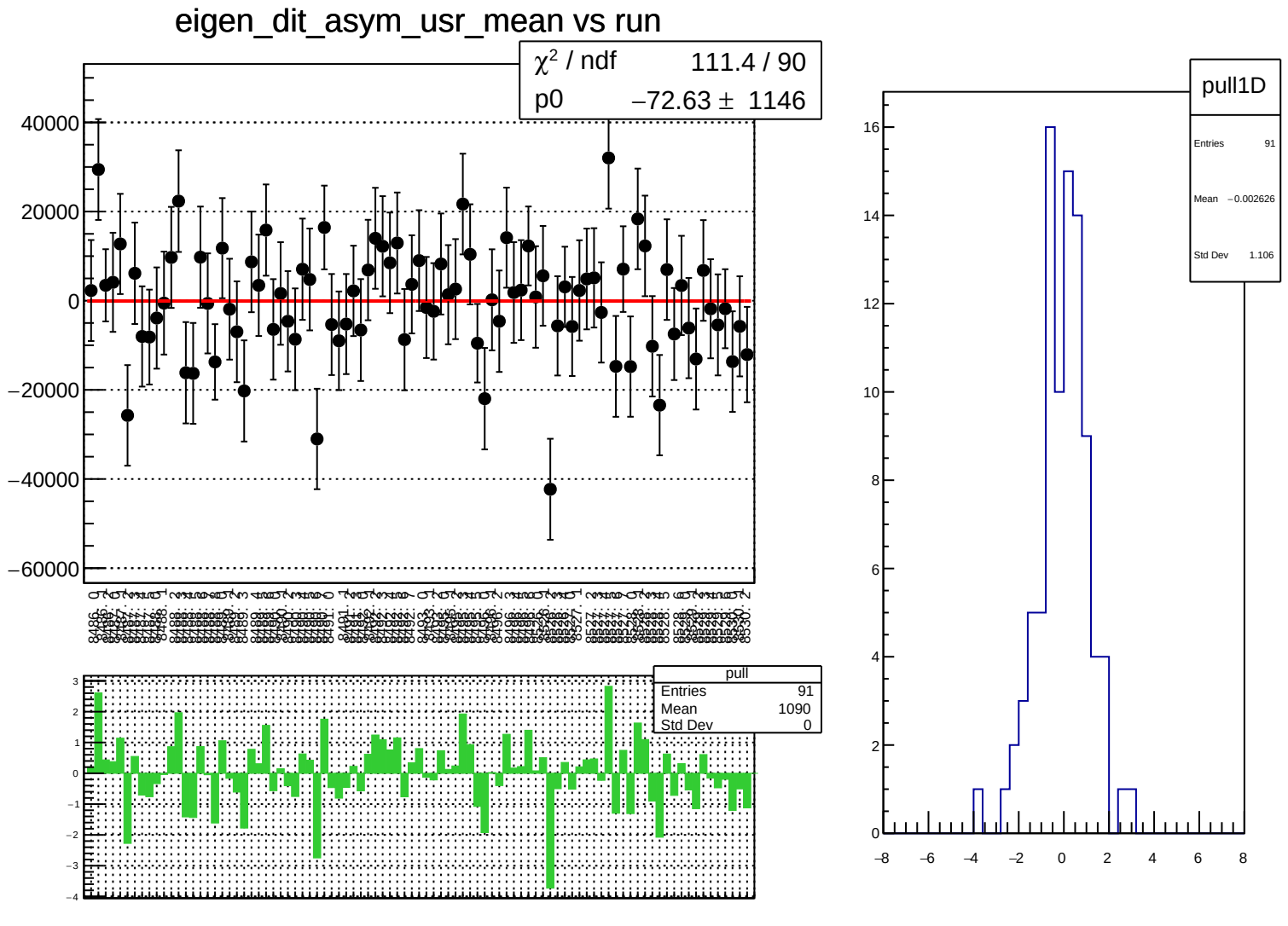

pull1D
Entries 91
Mean −0.002626
Std Dev 1.106
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

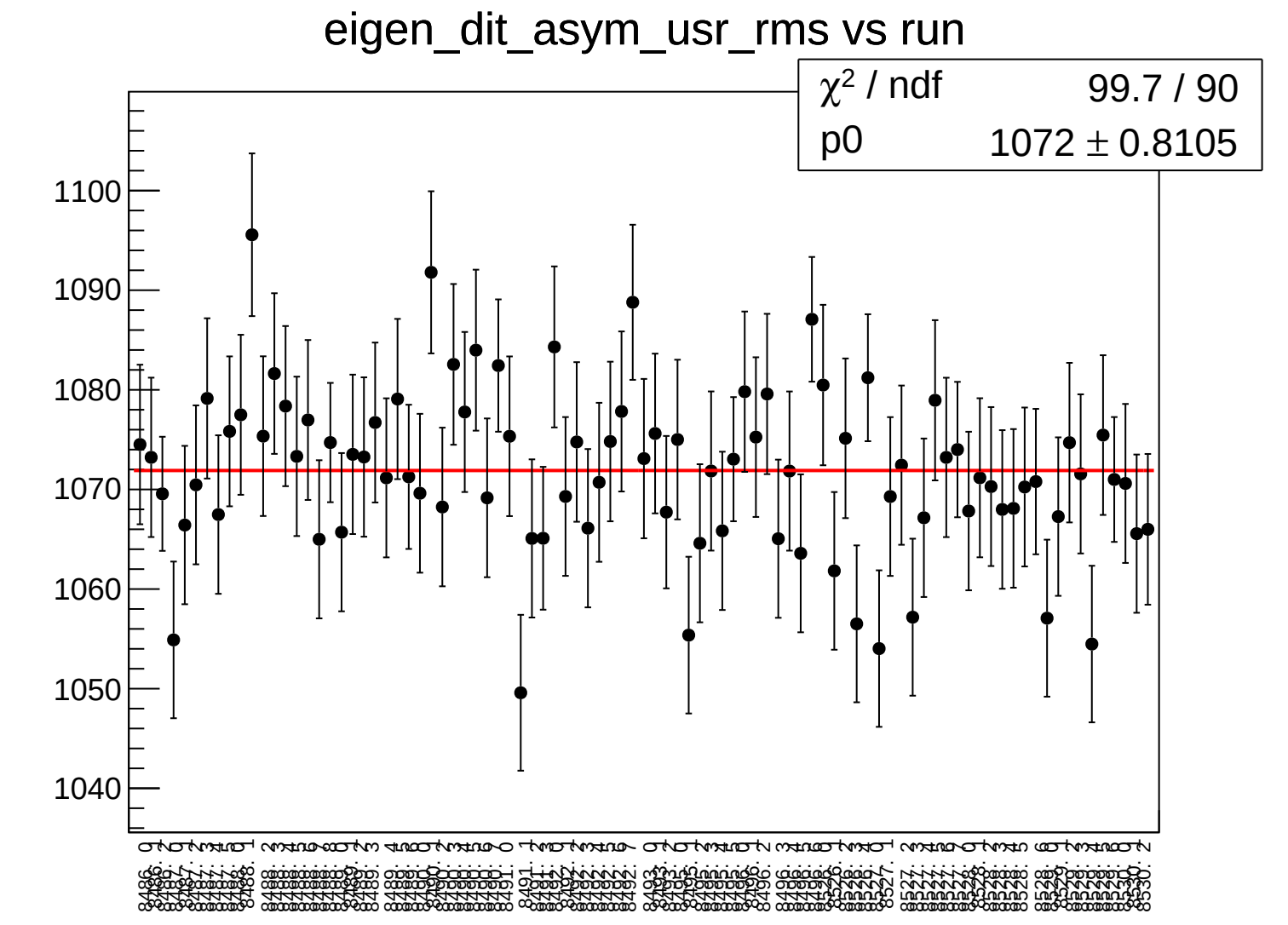

dit_asym_usr_rms vs run
χ^2 / ndf 99.7 / 90
p0 1072 ± 0.8105
1100
1090
1080
1070
1060
1050
1040

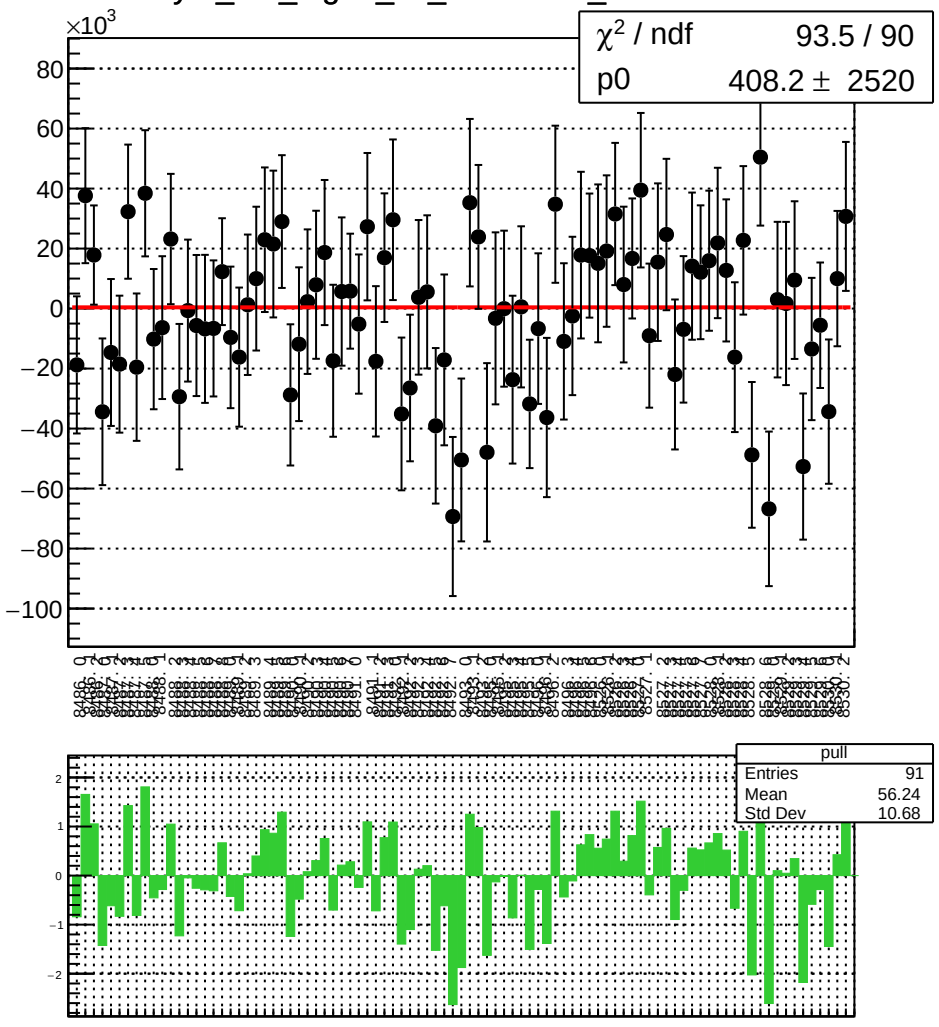

asym_usr_dit_correction_mean vs run
×10^3
χ² / ndf 93.5 / 90
p0 408.2 ± 2520
pull
Entries 91
Mean 56.24
Std Dev 10.68

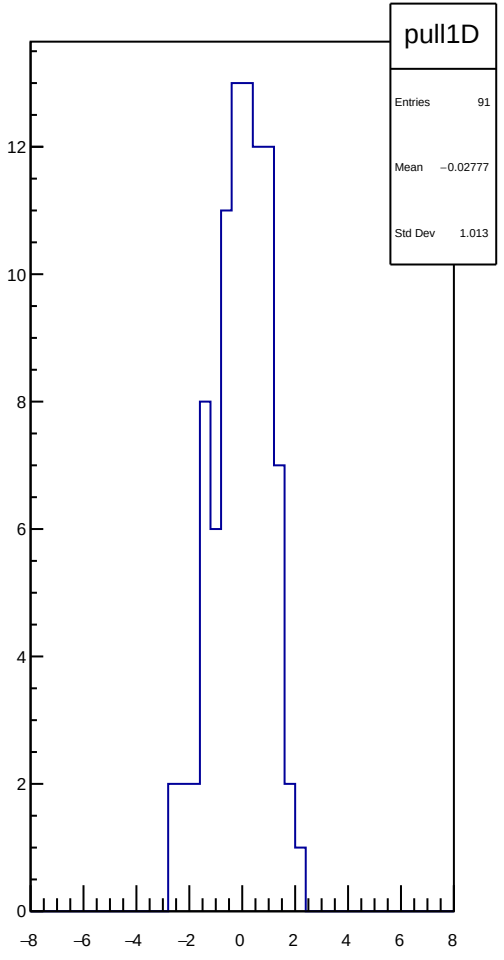

pull1D
Entries 91
Mean −0.02777
Std Dev 1.013

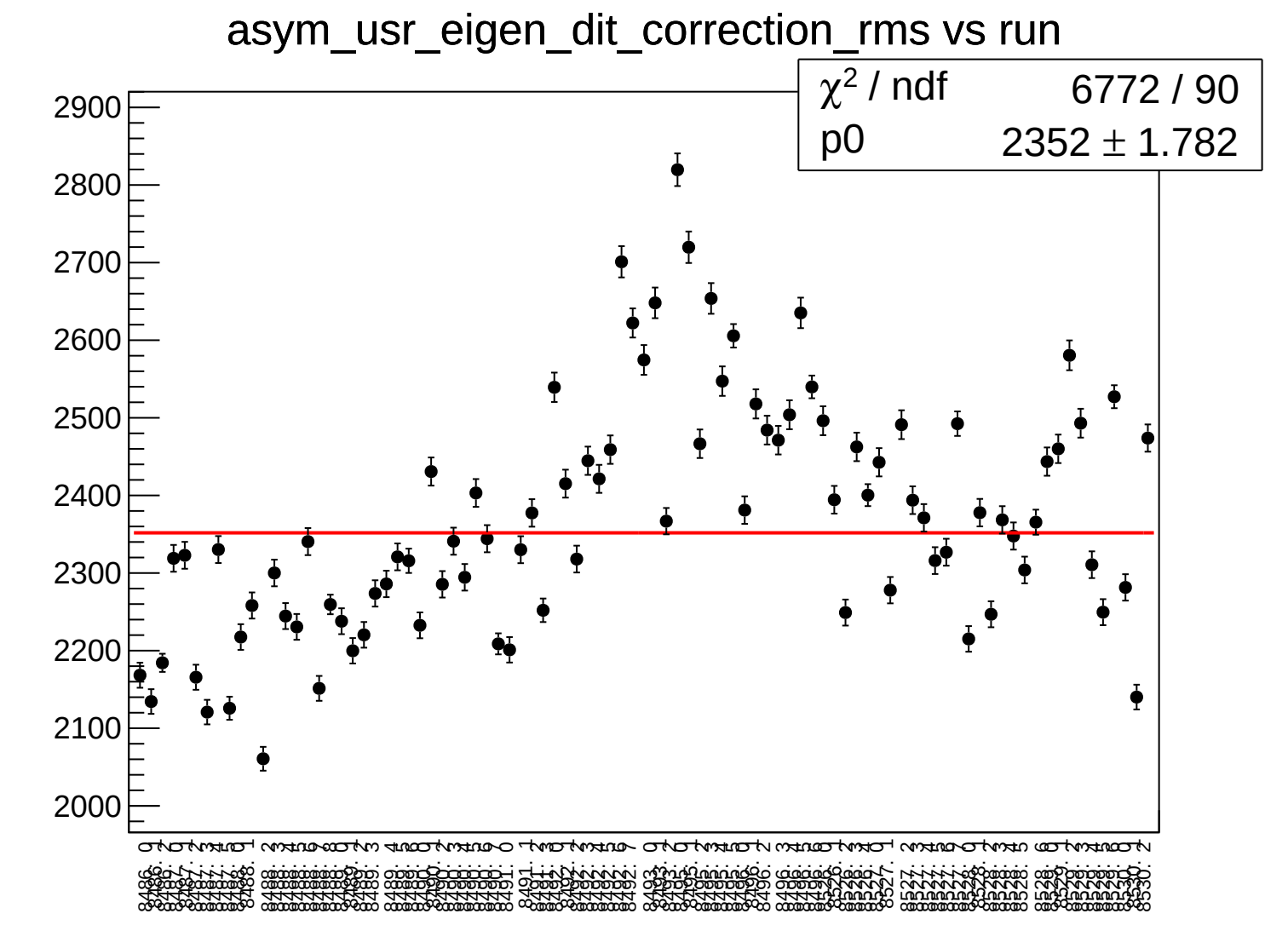

asym_usr_dit_correction_rms vs run
χ² / ndf 6772 / 90
p0 2352 ± 1.782
2900
2800
2700
2600
2500
2400
2300
2200
2100
2000

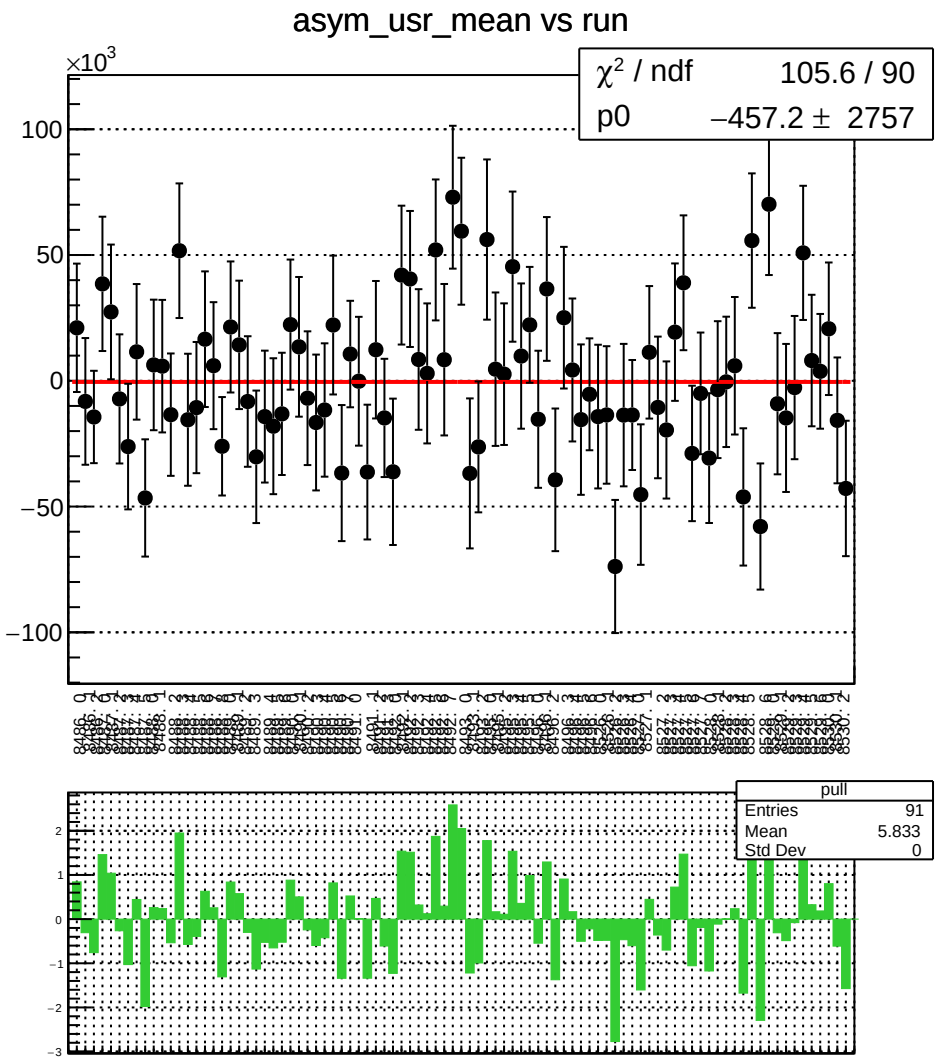

eigen_dit_asym_usr_mean vs run
χ² / ndf 111.4 / 90
p0 −72.63 ± 1146
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 1090
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 91
Mean −0.002626
Std Dev 1.106
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

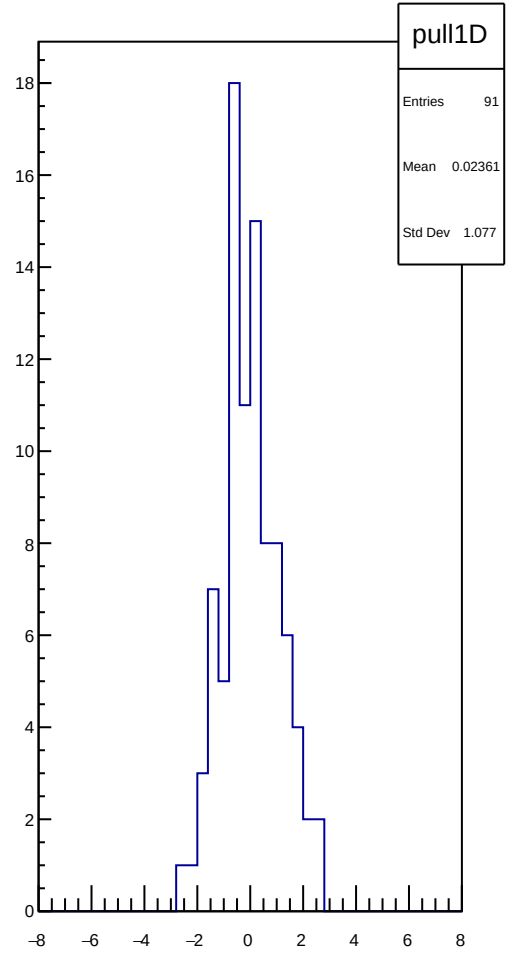

eigen_dit_asym_usr_rms vs run
χ² / ndf 99.7 / 90
p0 1072 ± 0.8105
1100
1090
1080
1070
1060
1050
1040

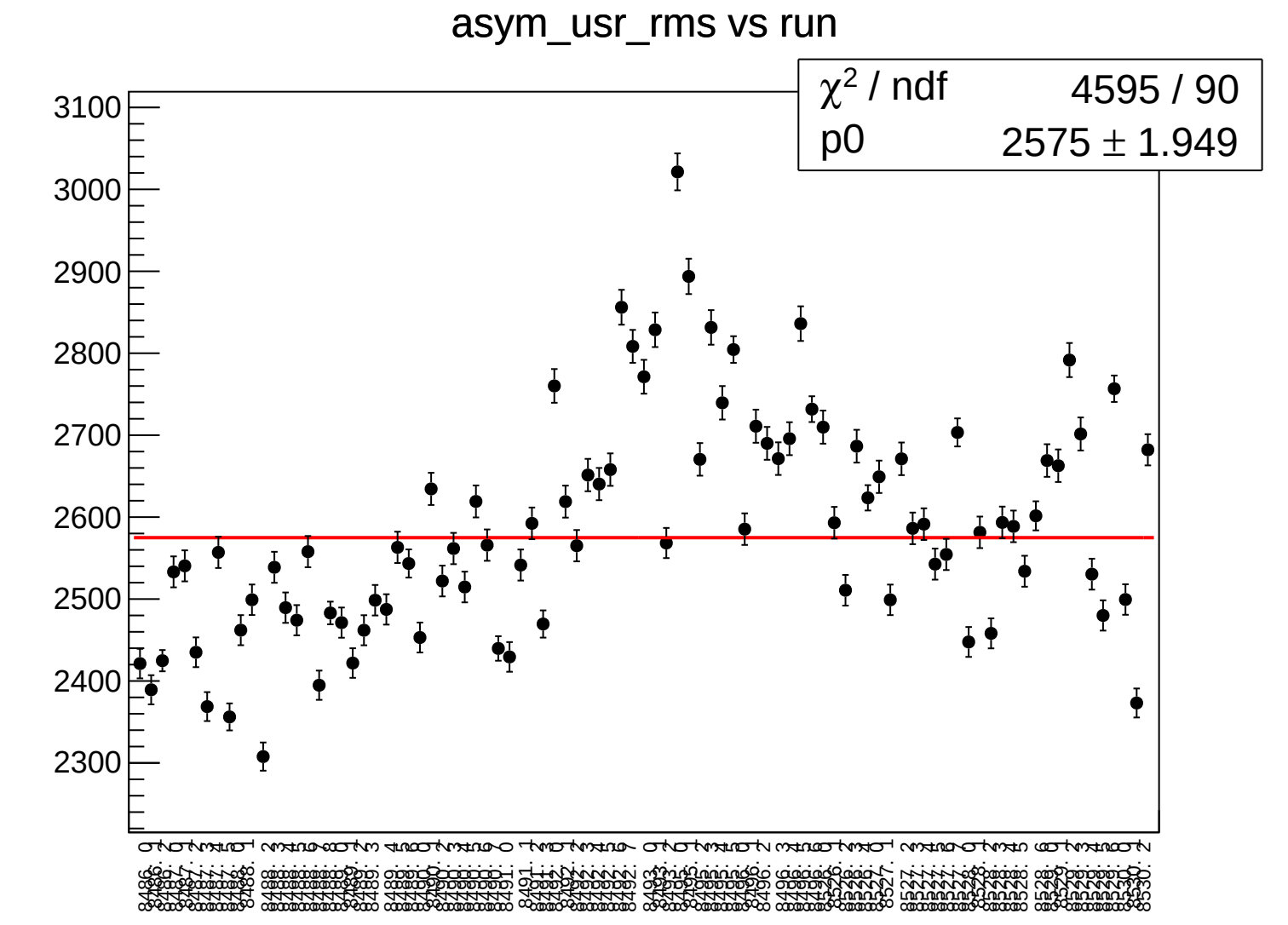

asym_usr_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 93.5 / 90
p0 408.2 ± 2520
pull
Entries 91
Mean 56.24
Std Dev 10.68

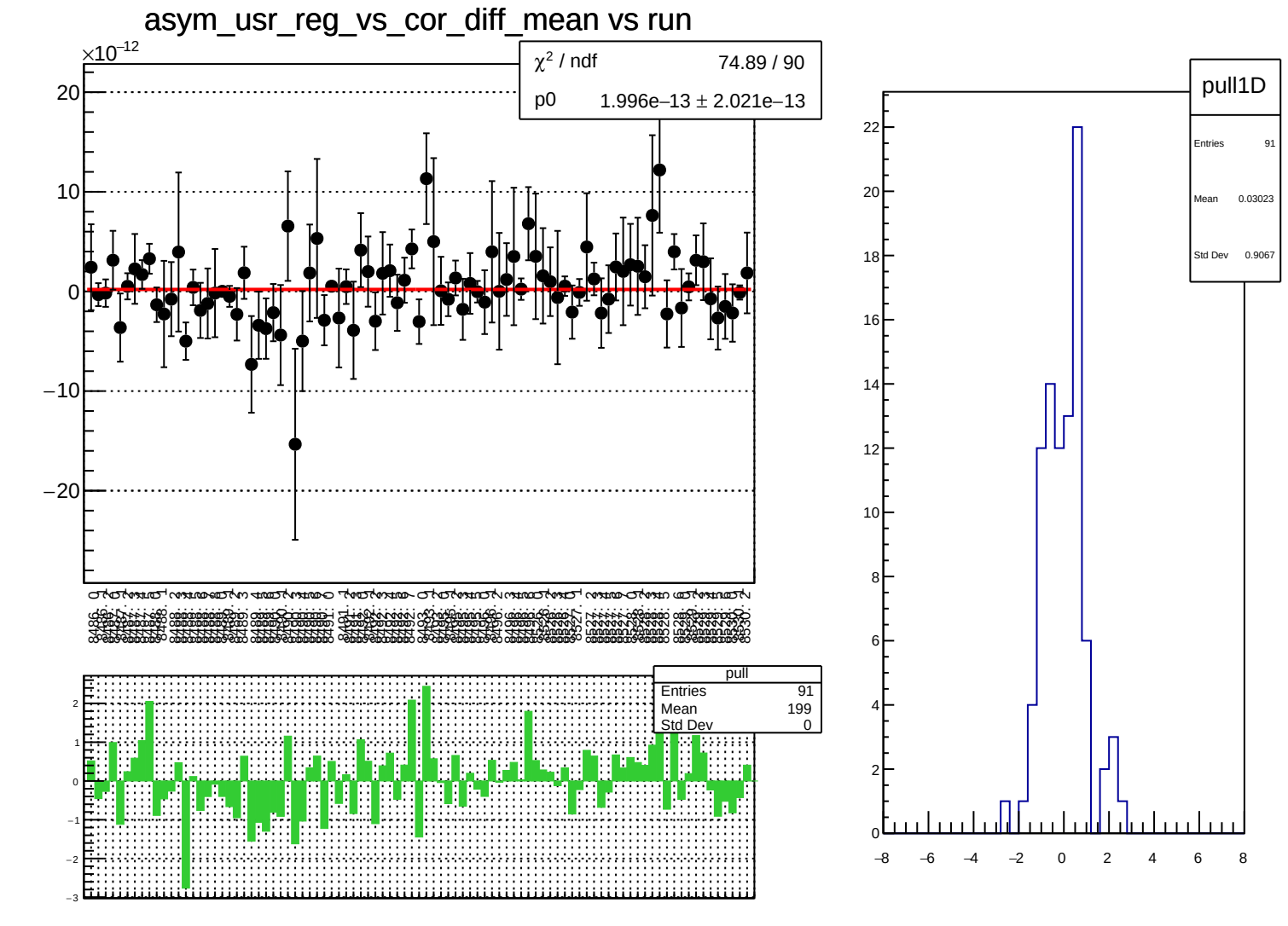

pull1D
Entries 91
Mean −0.02777
Std Dev 1.013

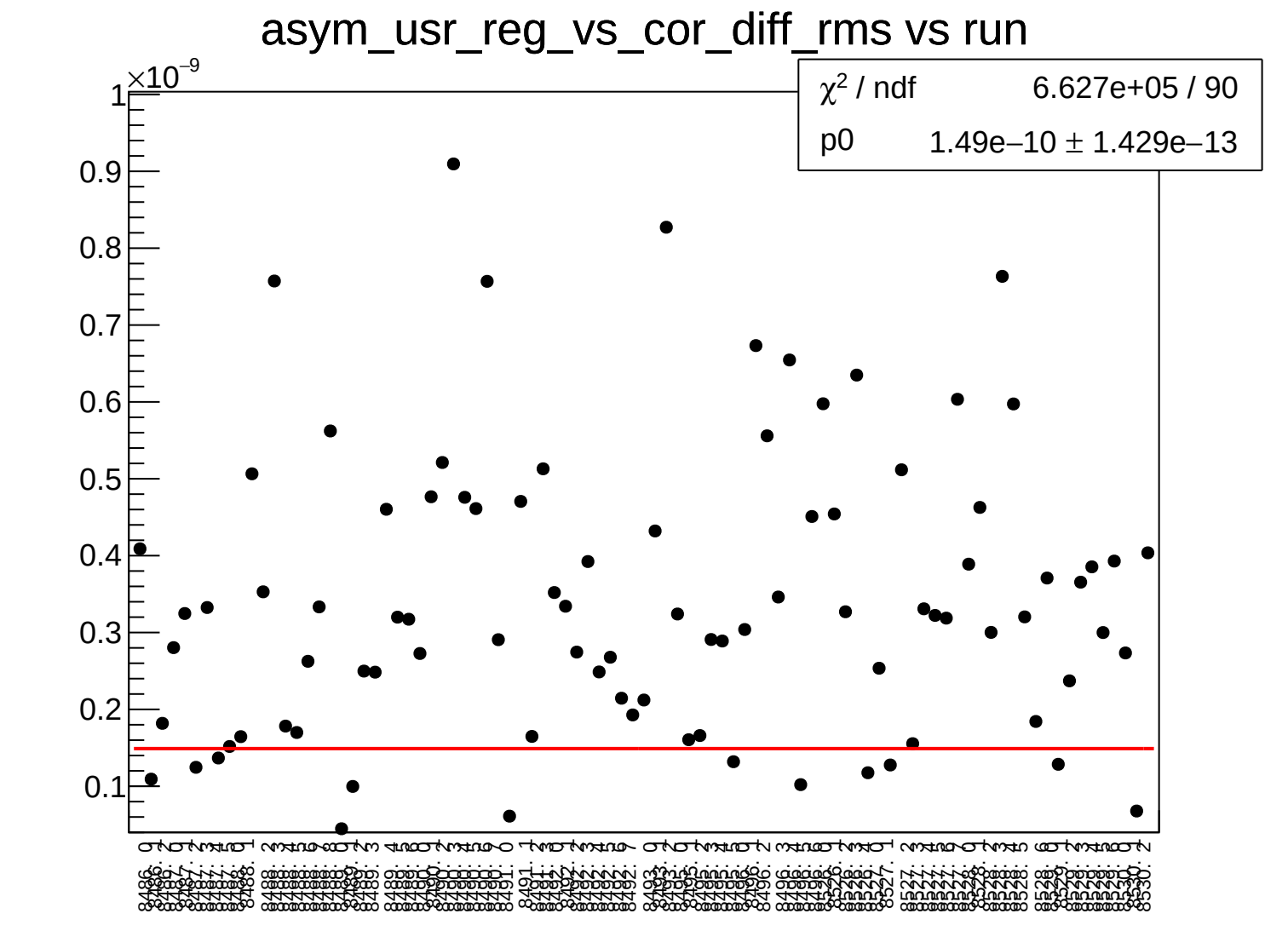

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 6772 / 90
p0 2352 ± 1.782
2900
2800
2700
2600
2500
2400
2300
2200
2100
2000

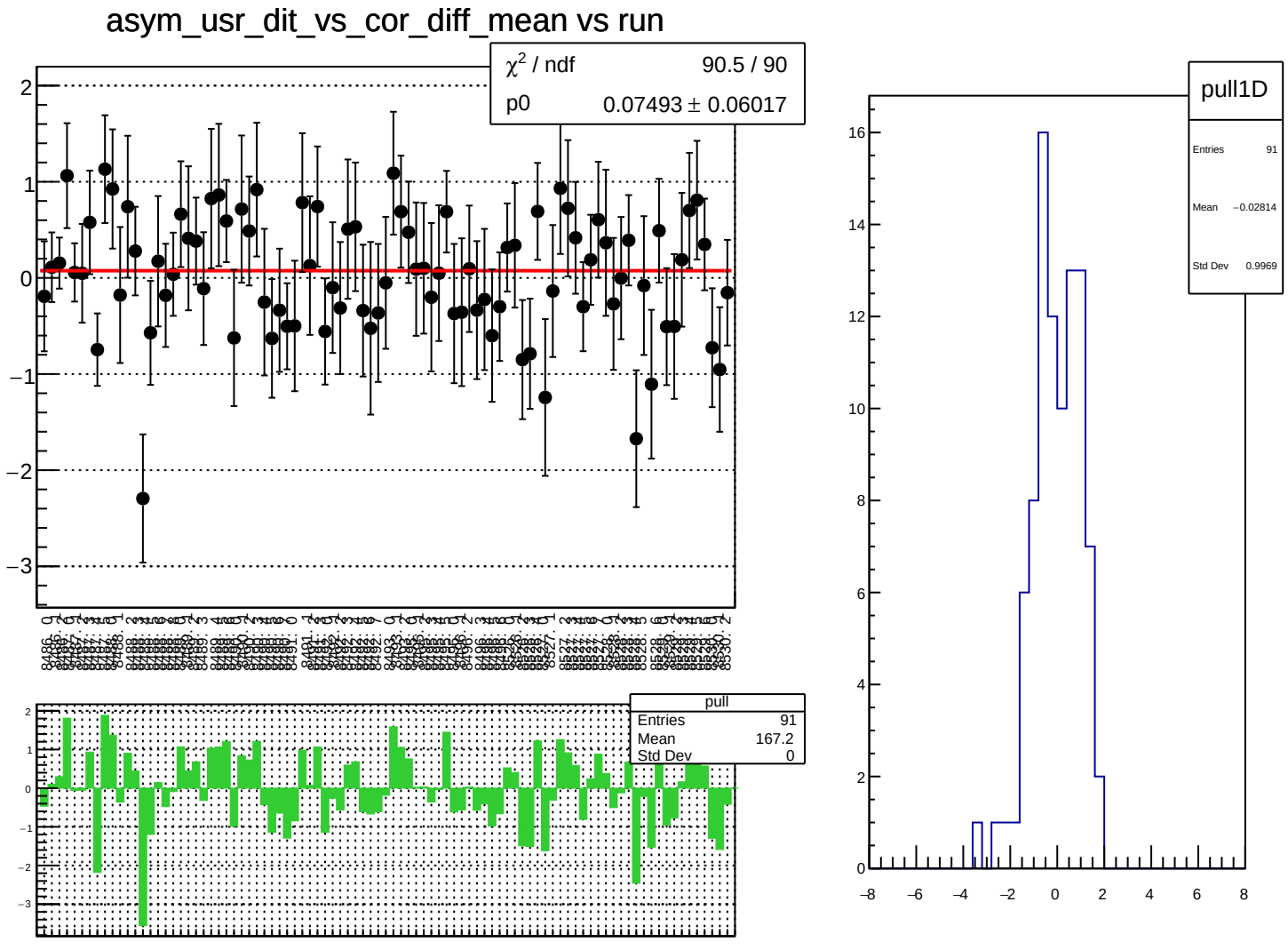

asym_usr_mean vs run
×10^3
χ² / ndf 105.6 / 90
p0 −457.2 ± 2757
100
50
0
−50
−100
pull
Entries 91
Mean 5.833
Std Dev 0
2
1
0
−1
−2
−3

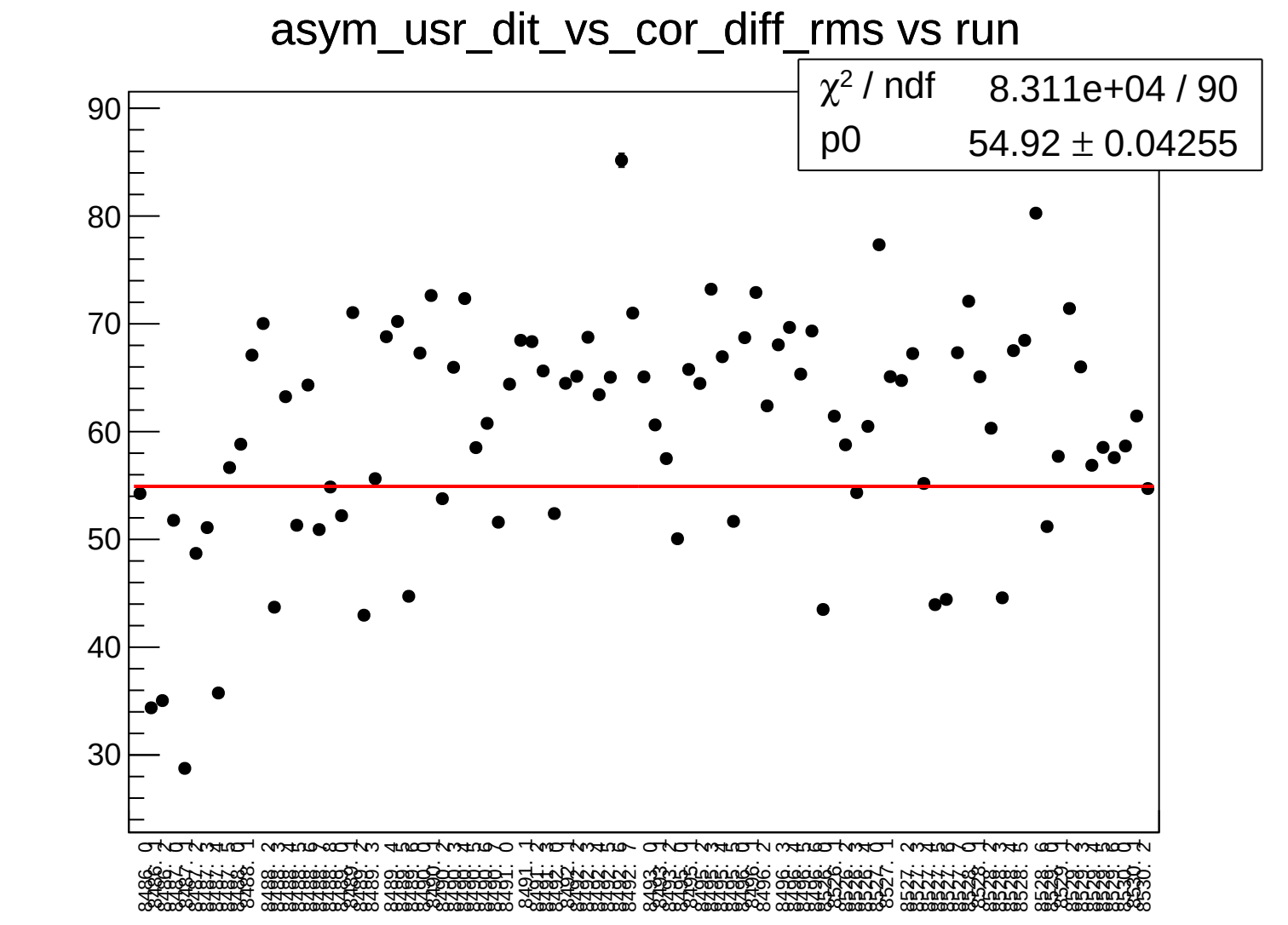

pull1D
Entries 91
Mean 0.02361
Std Dev 1.077
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

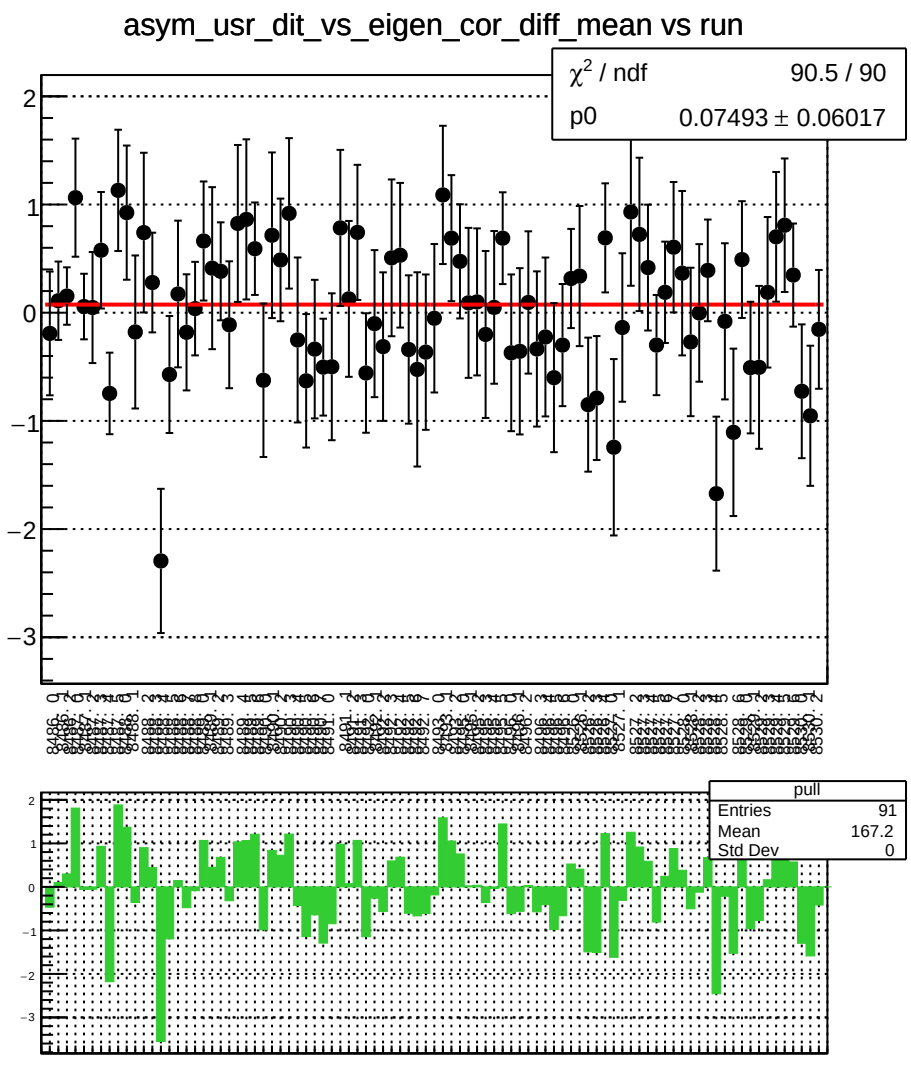

asym_usr_rms vs run
χ² / ndf 4595 / 90
p0 2575 ± 1.949
3100
3000
2900
2800
2700
2600
2500
2400
2300

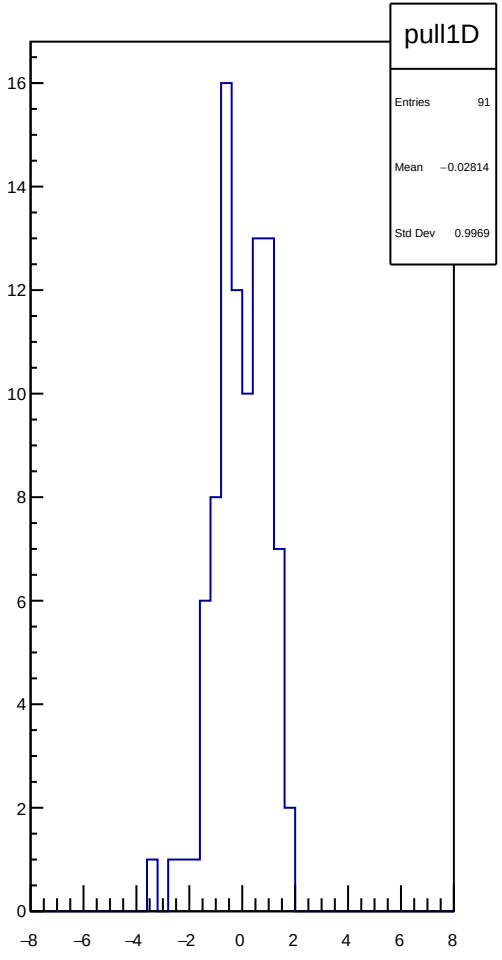

asym_usr_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.89 / 90
p0 1.996e−13 ± 2.021e−13
pull
Entries 91
Mean 199
Std Dev 0
pull1D
Entries 91
Mean 0.03023
Std Dev 0.9067

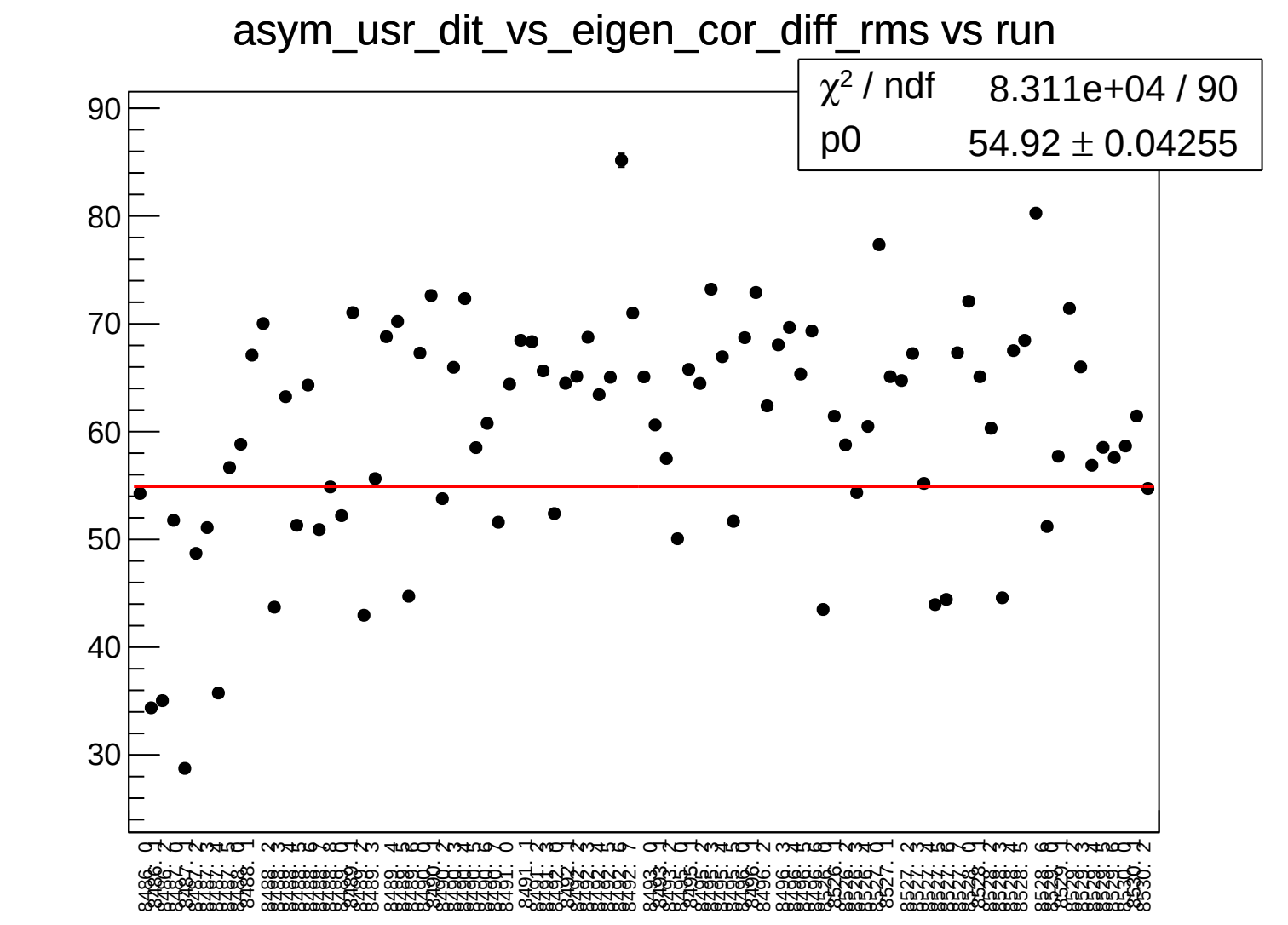

asym_usr_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.627e+05 / 90
p0 1.49e−10 ± 1.429e−13
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

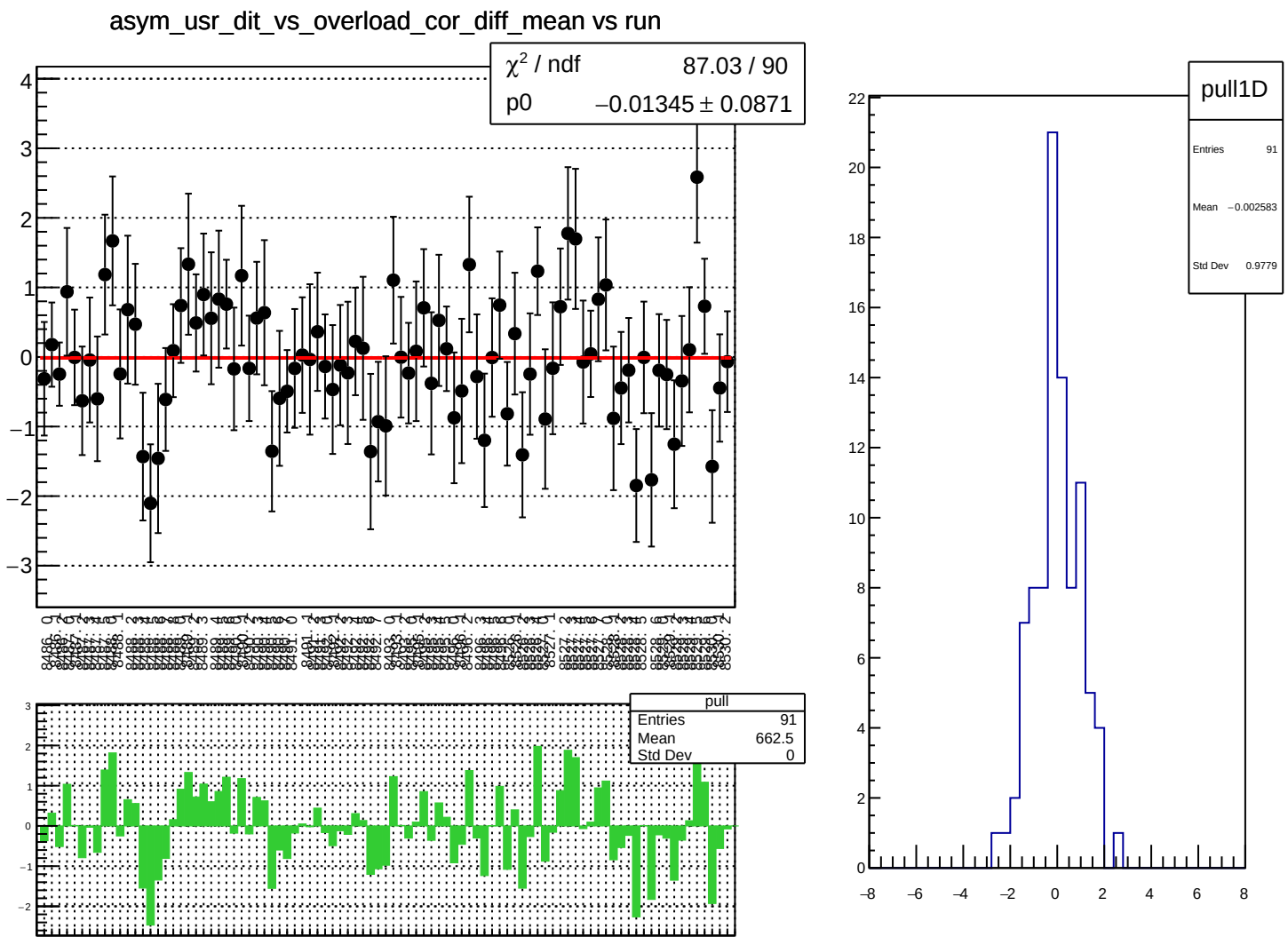

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 90.5 / 90
p0 0.07493 ± 0.06017
pull
Entries 91
Mean 167.2
Std Dev 0
pull1D
Entries 91
Mean −0.02814
Std Dev 0.9969

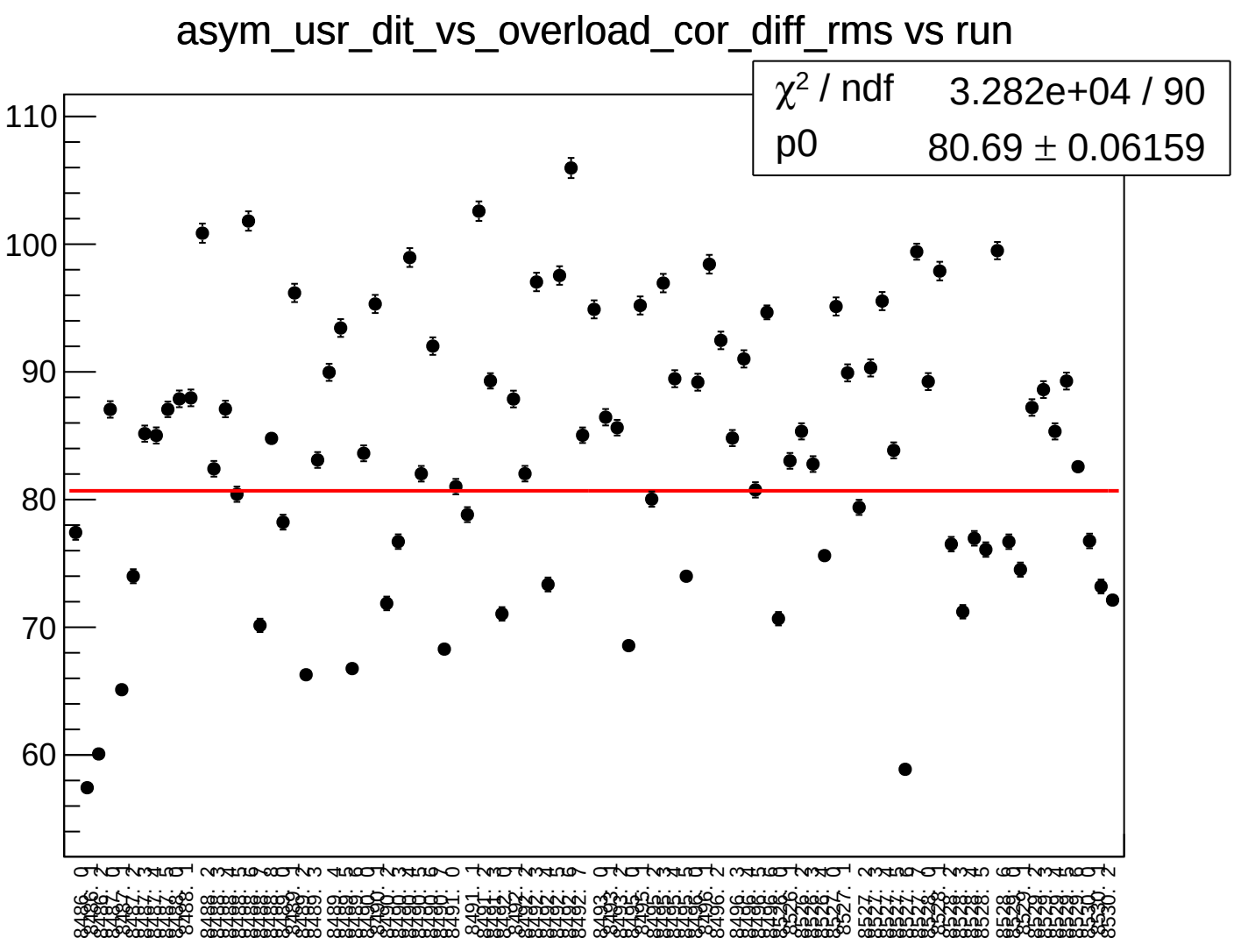

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 8.311e+04 / 90
p0 54.92 ± 0.04255
90
80
70
60
50
40
30

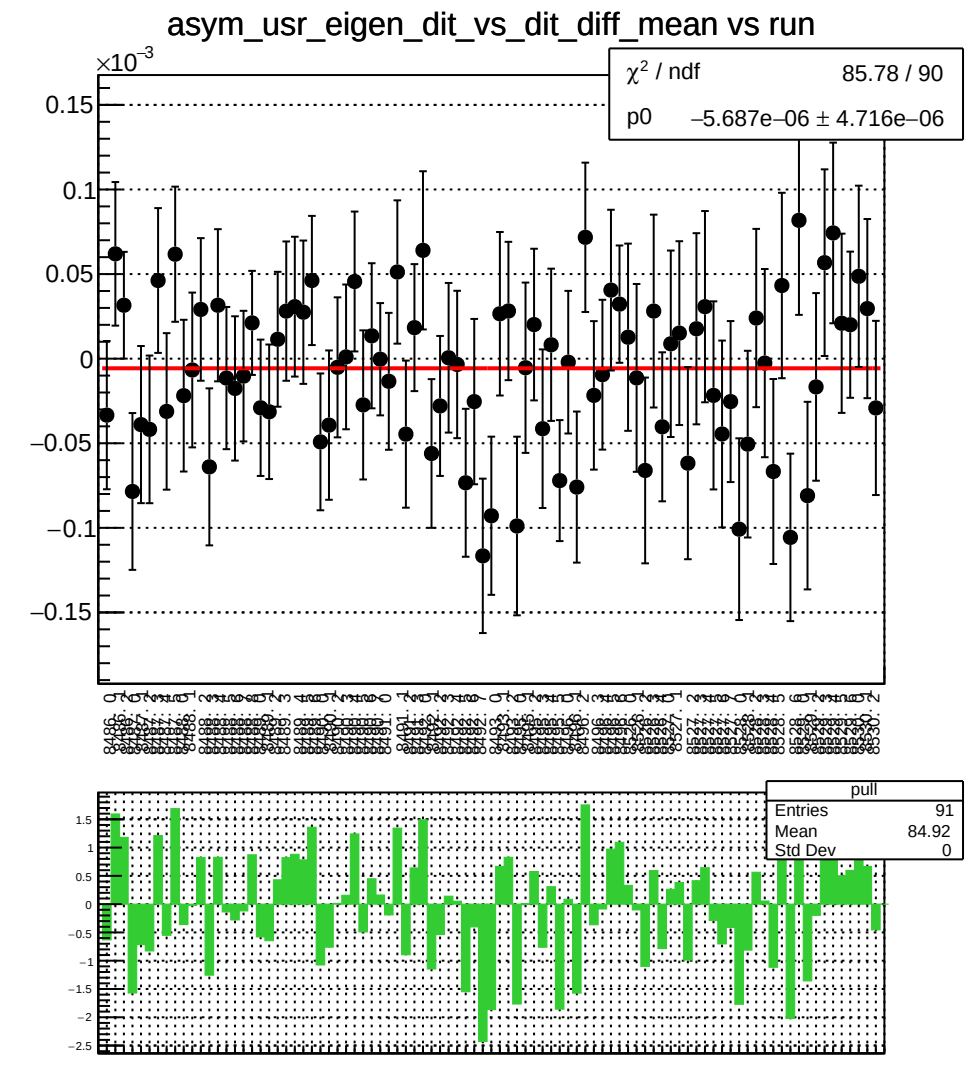

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.5 / 90
p0 0.07493 ± 0.06017
pull
Entries 91
Mean 167.2
Std Dev 0

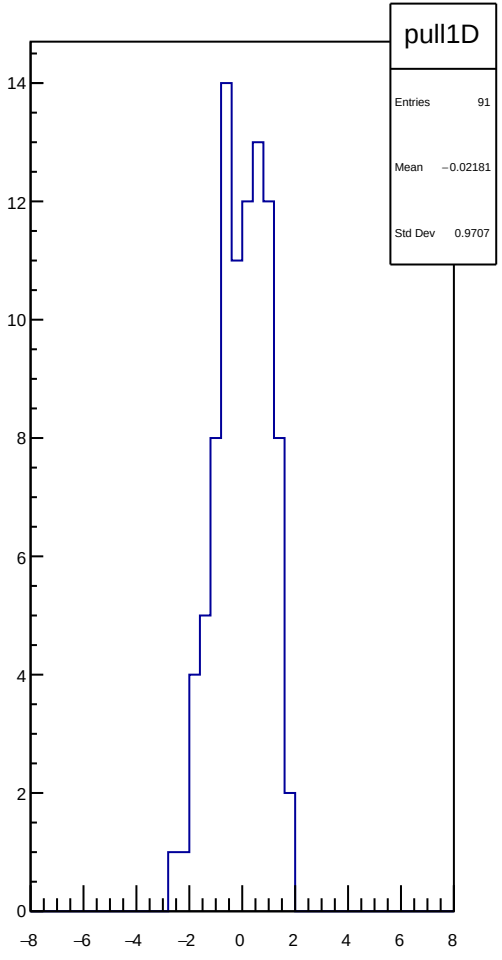

pull1D
Entries 91
Mean −0.02814
Std Dev 0.9969

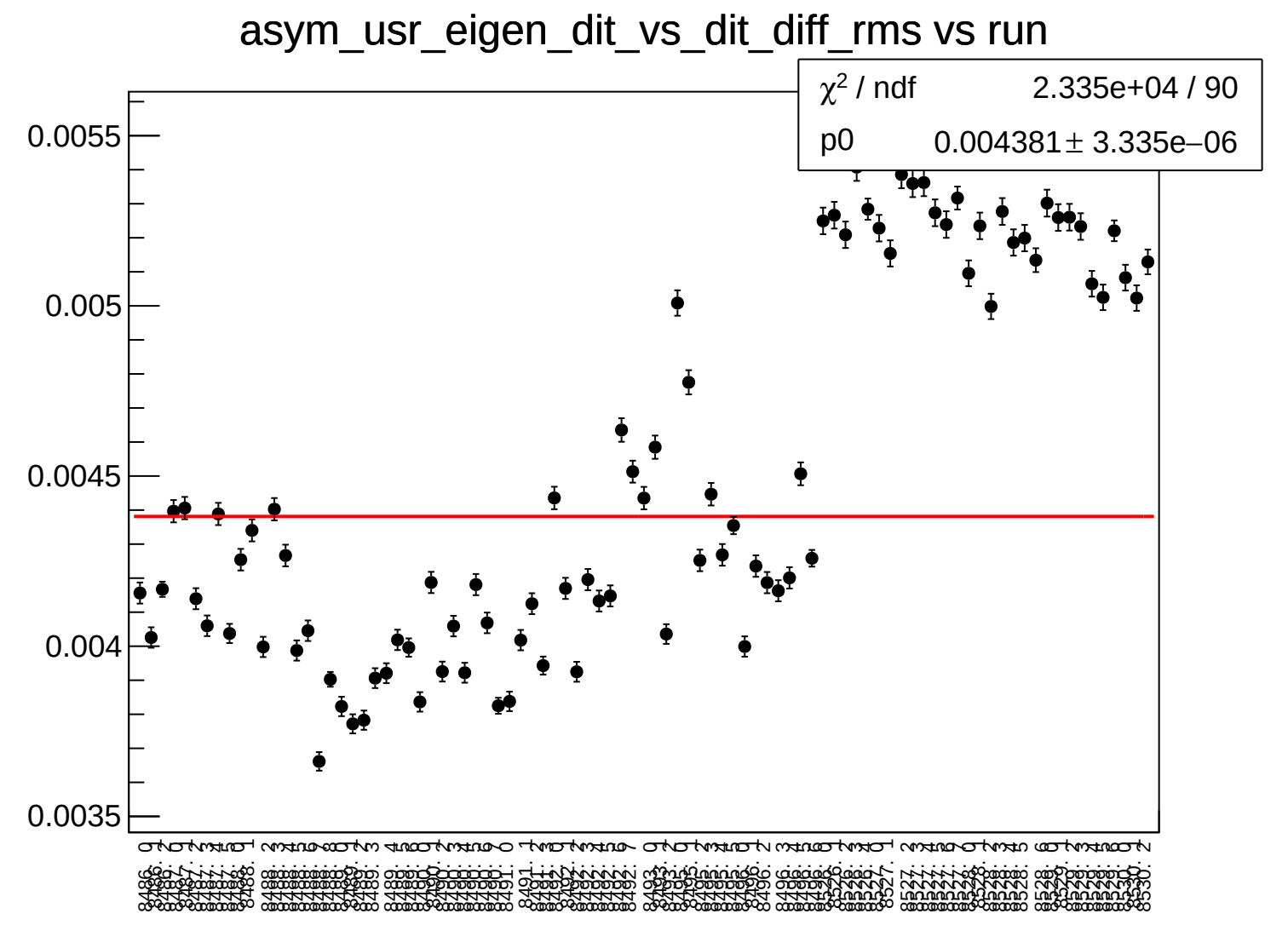

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.311e+04 / 90
p0 54.92 ± 0.04255
90
80
70
60
50
40
30

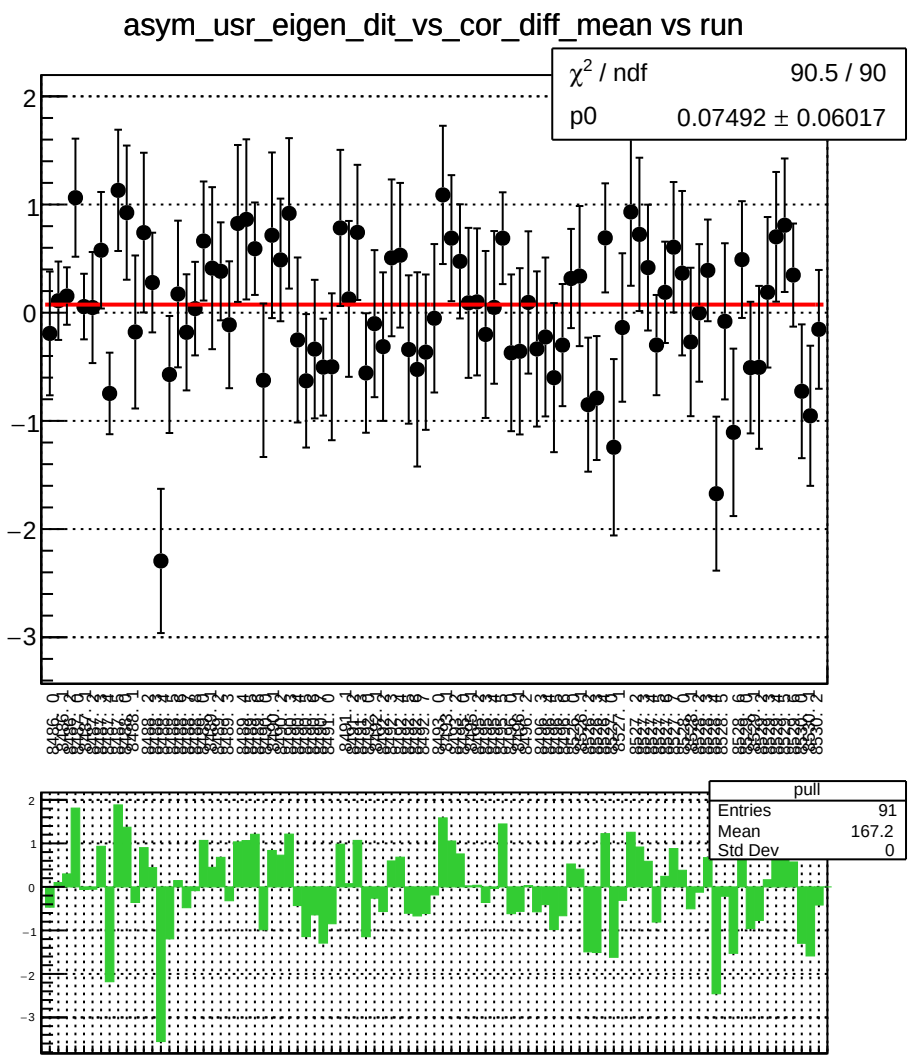

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 87.03 / 90
p0 −0.01345 ± 0.0871
pull
Entries 91
Mean 662.5
Std Dev 0
pull1D
Entries 91
Mean −0.002583
Std Dev 0.9779

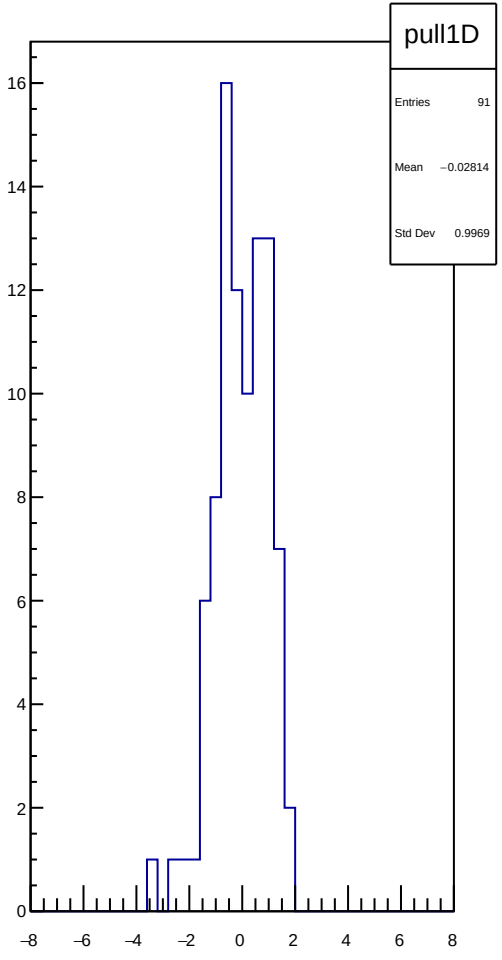

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 3.282e+04 / 90
p0 80.69 ± 0.06159
110
100
90
80
70
60

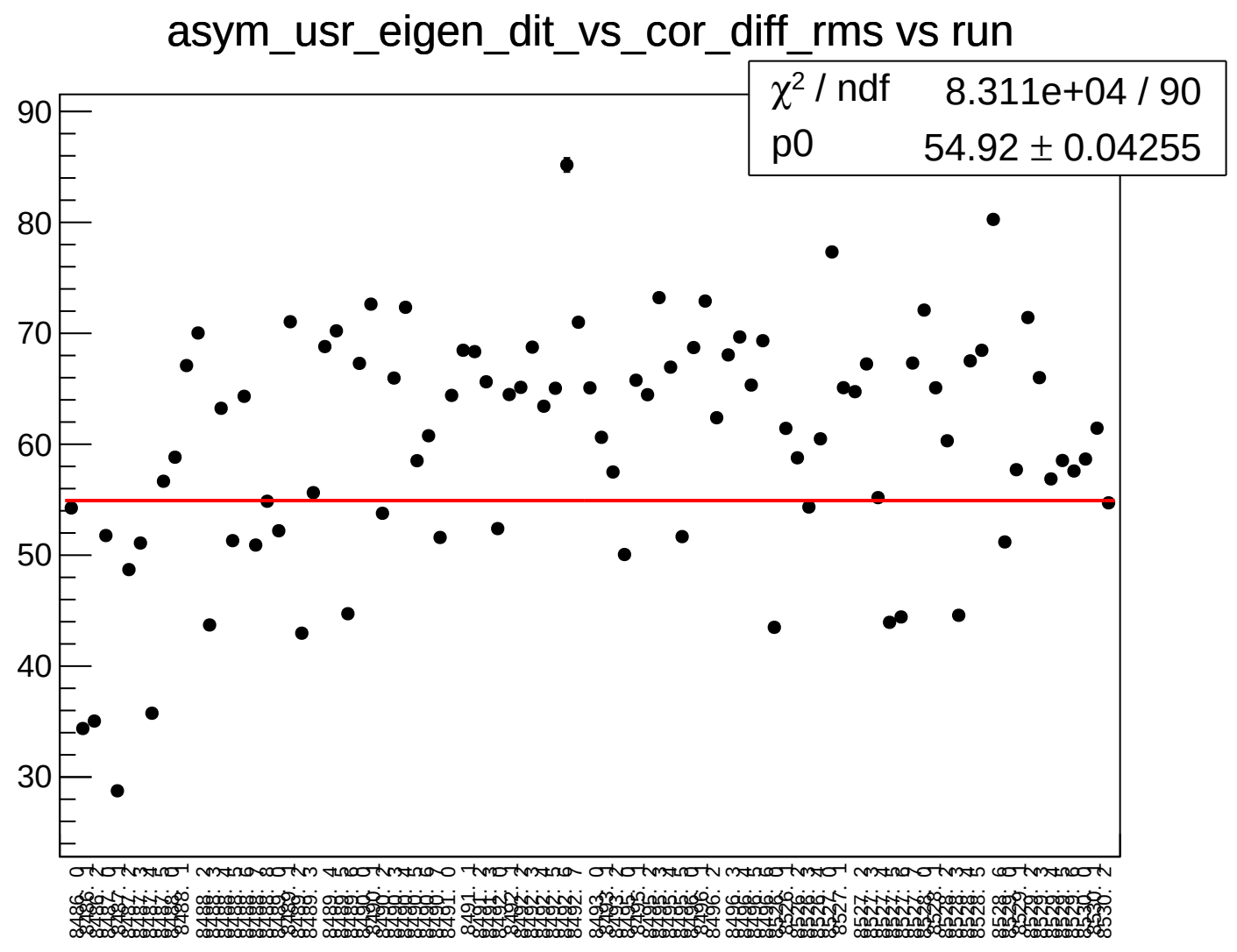

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.78 / 90
p0 −5.687e−06 ± 4.716e−06
pull
Entries 91
Mean 84.92
Std Dev 0

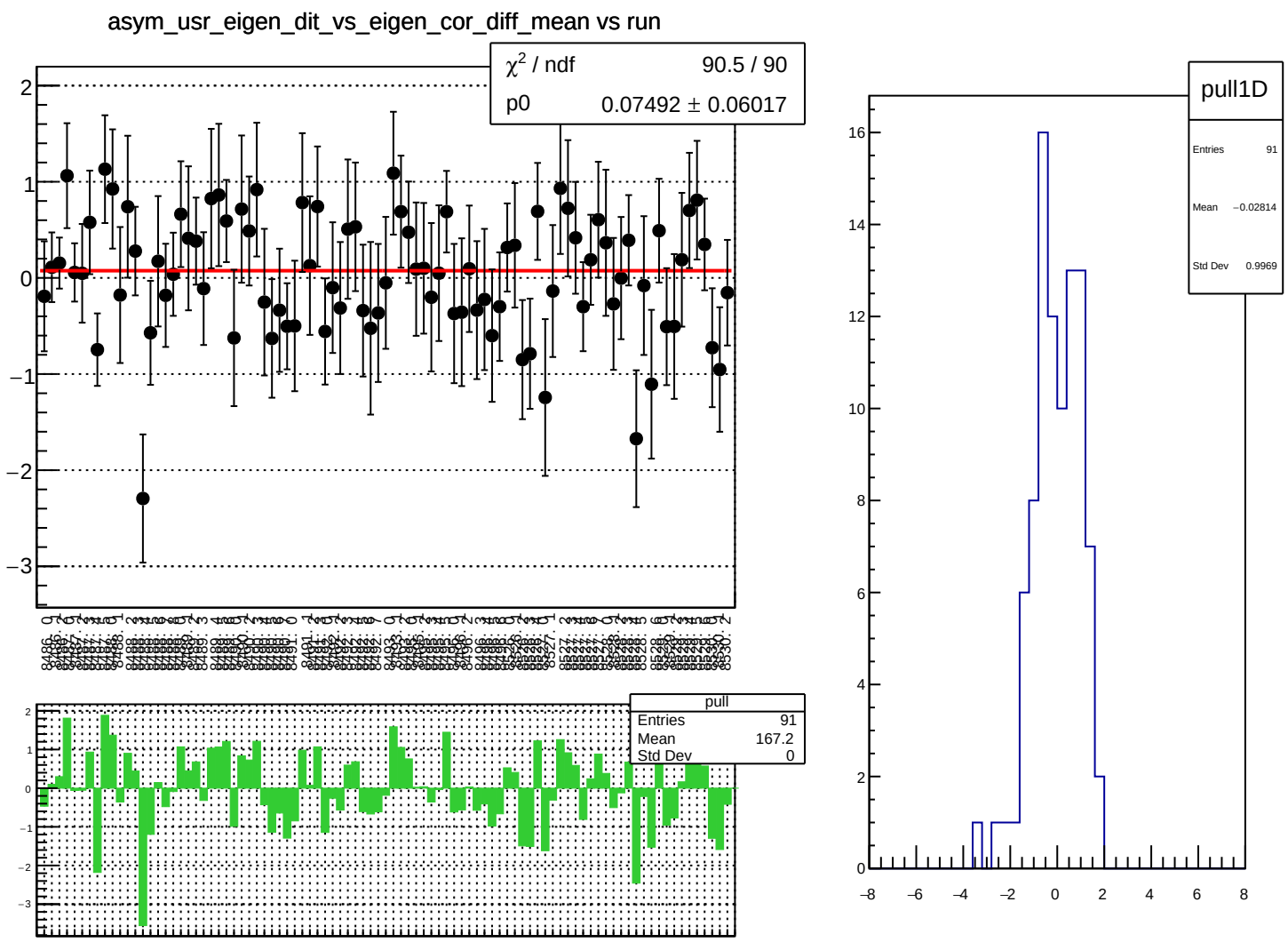

pull1D
Entries 91
Mean −0.02181
Std Dev 0.9707

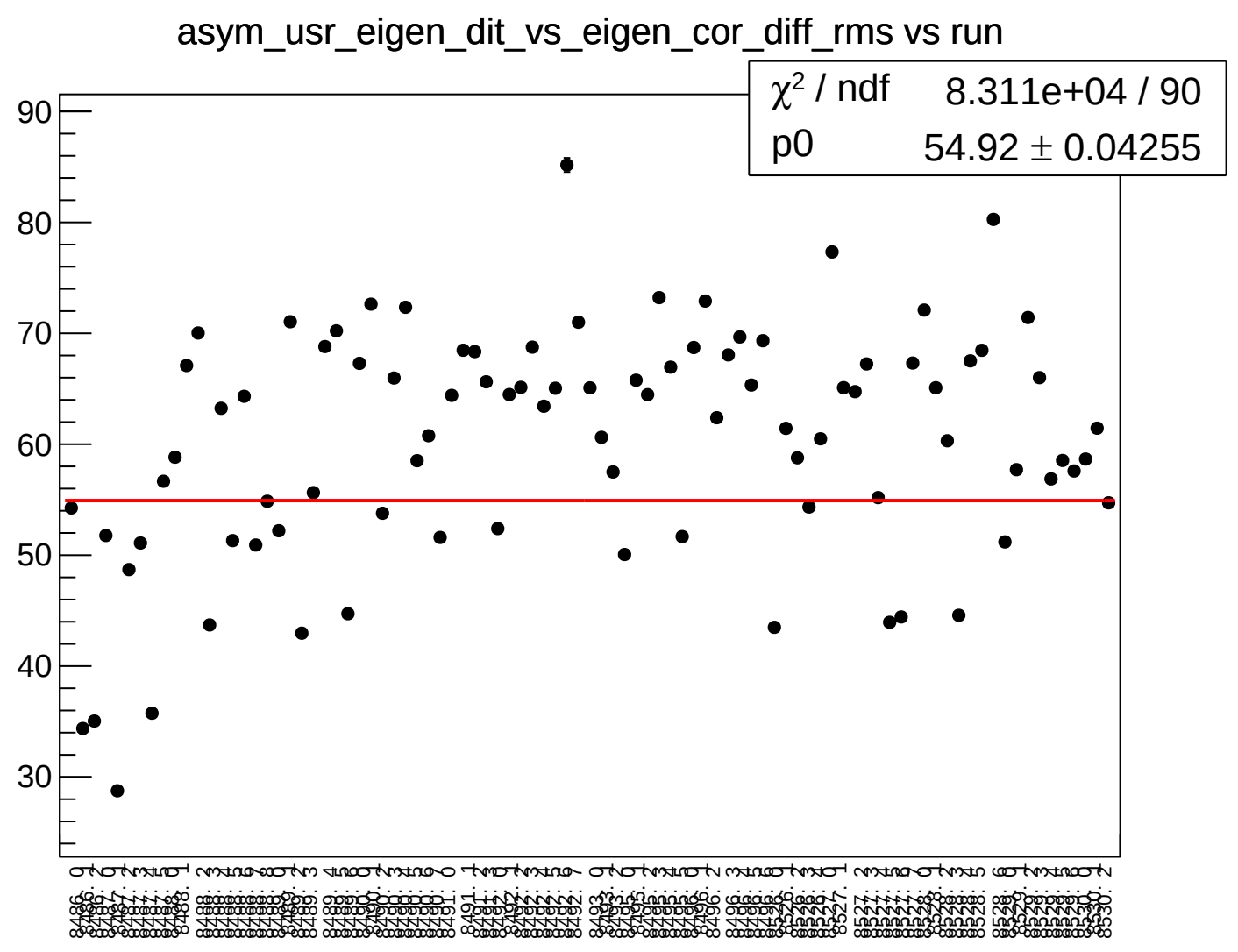

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.335e+04 / 90
p0 0.004381 ± 3.335e−06
0.0055
0.005
0.0045
0.004
0.0035

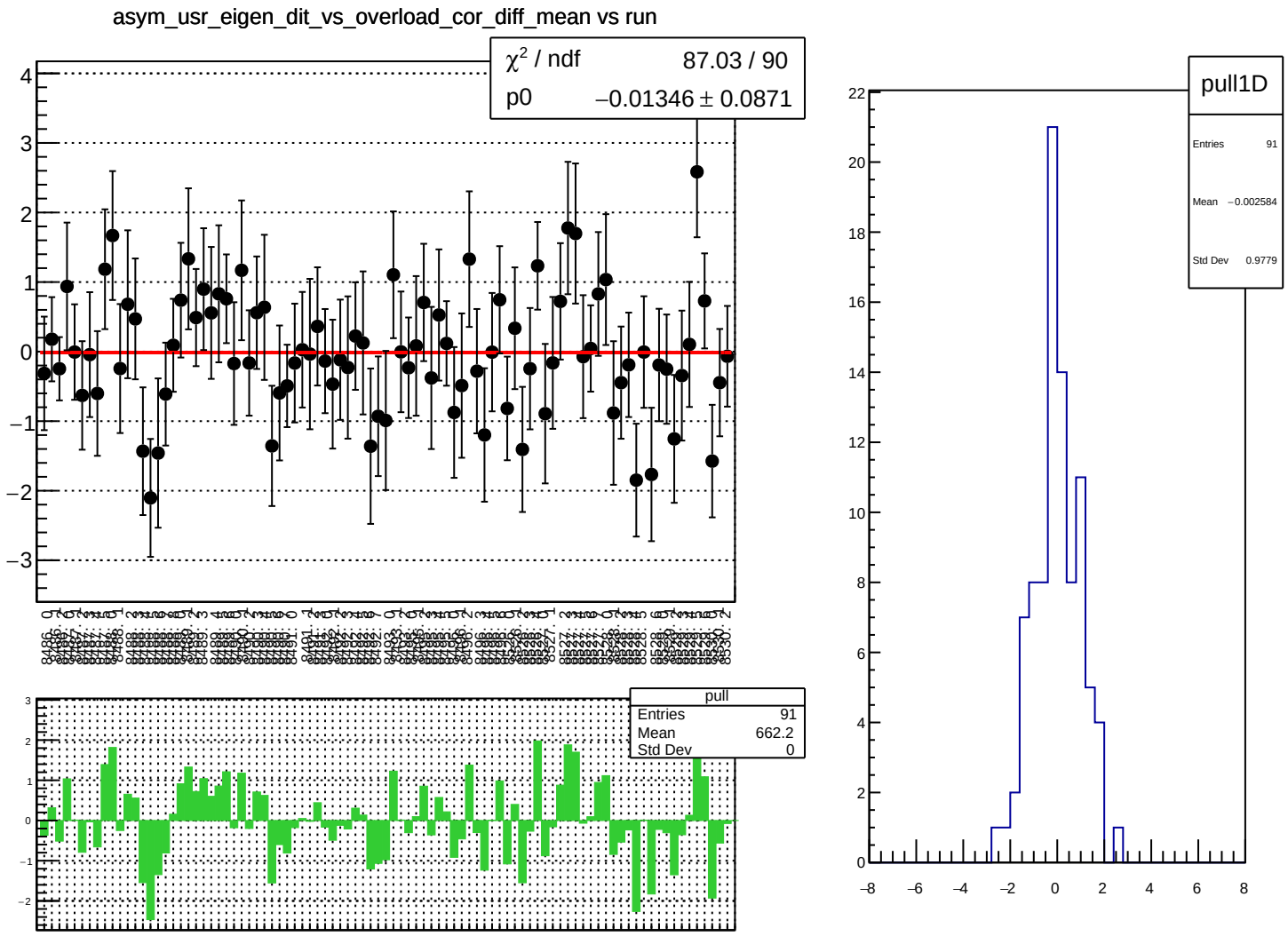

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.5 / 90
p0 0.07492 ± 0.06017
pull
Entries 91
Mean 167.2
Std Dev 0

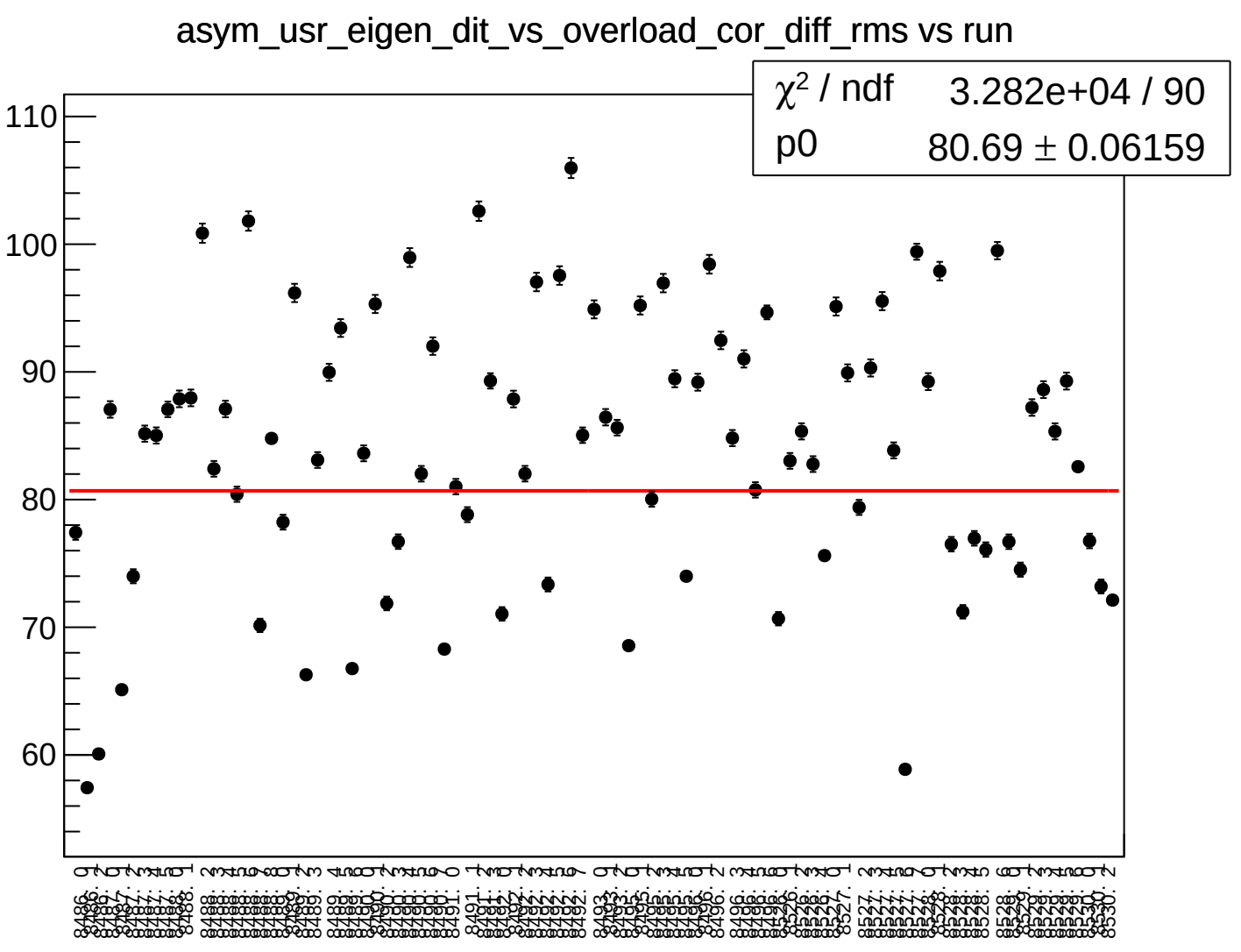

pull1D
Entries 91
Mean −0.02814
Std Dev 0.9969

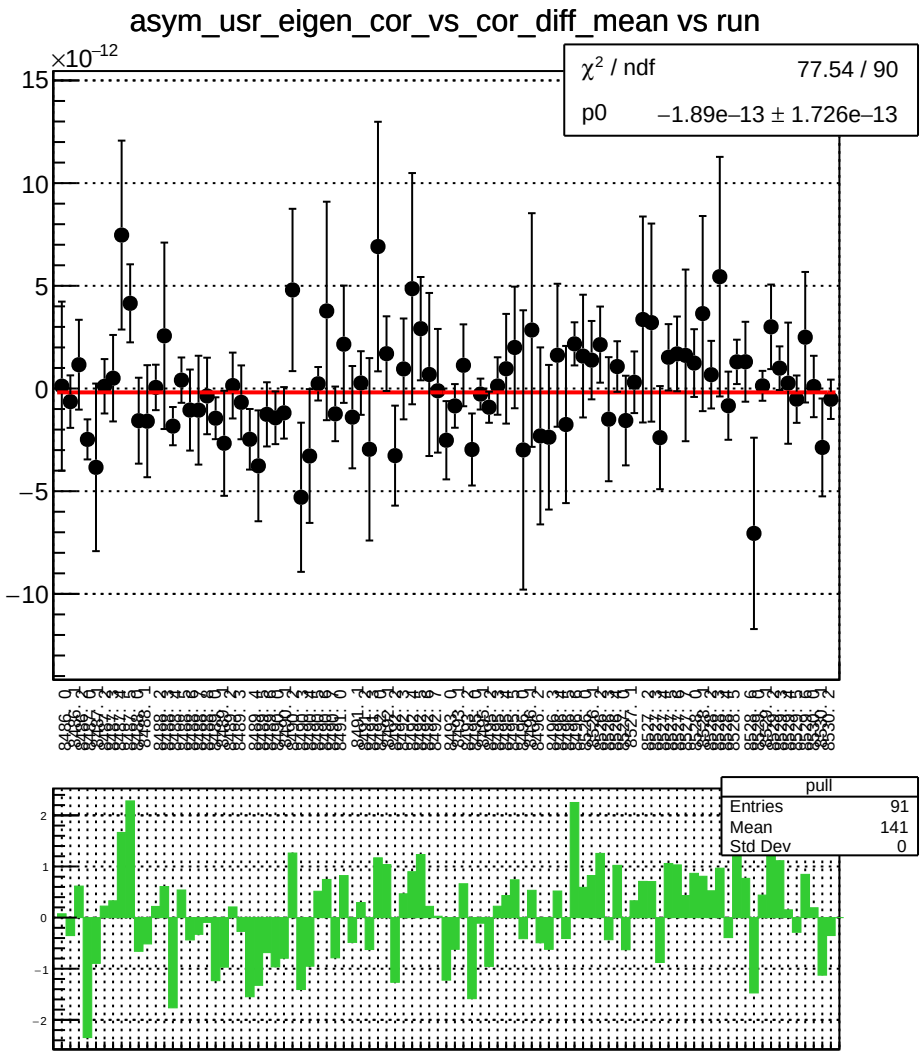

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.311e+04 / 90
p0 54.92 ± 0.04255
90
80
70
60
50
40
30

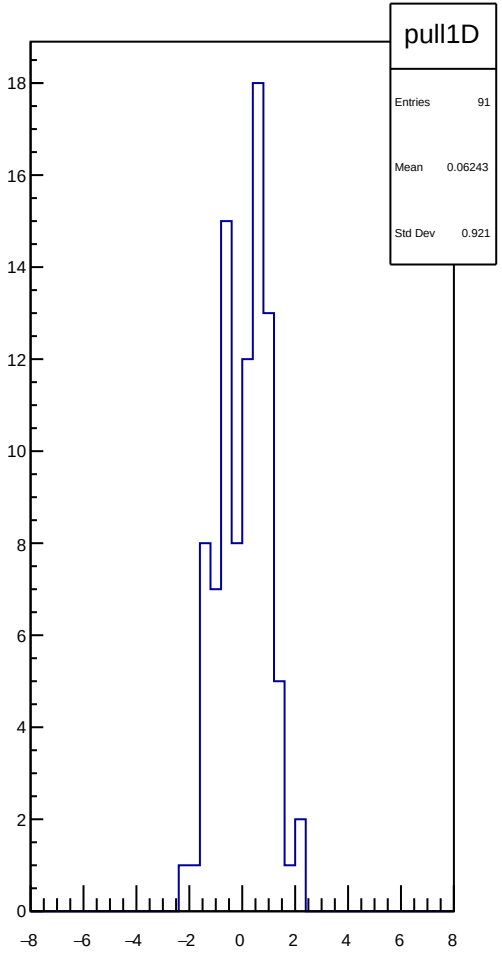

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.5 / 90
p0 0.07492 ± 0.06017
pull
Entries 91
Mean 167.2
Std Dev 0
pull1D
Entries 91
Mean −0.02814
Std Dev 0.9969

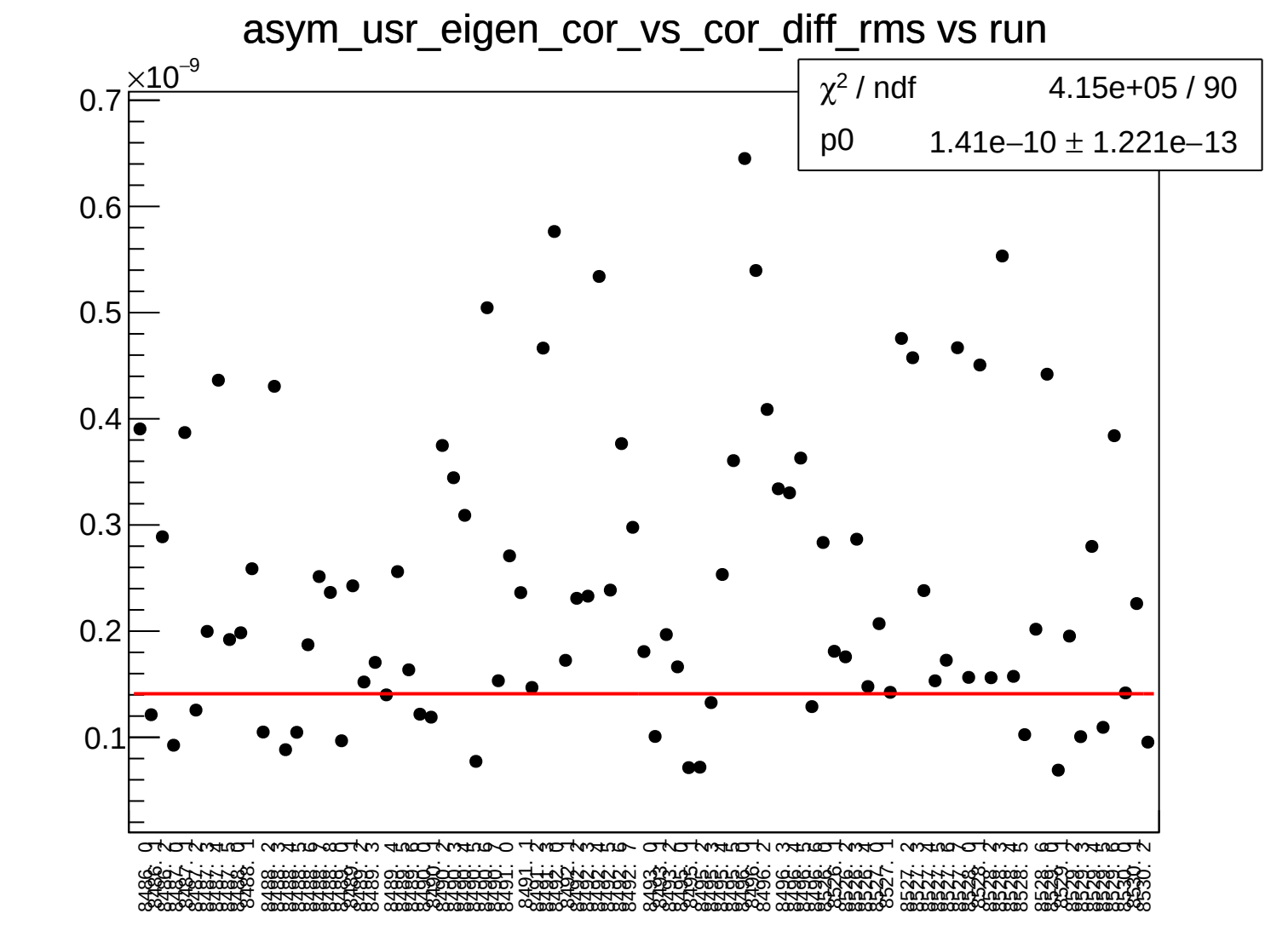

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.311e+04 / 90
p0 54.92 ± 0.04255
90
80
70
60
50
40
30

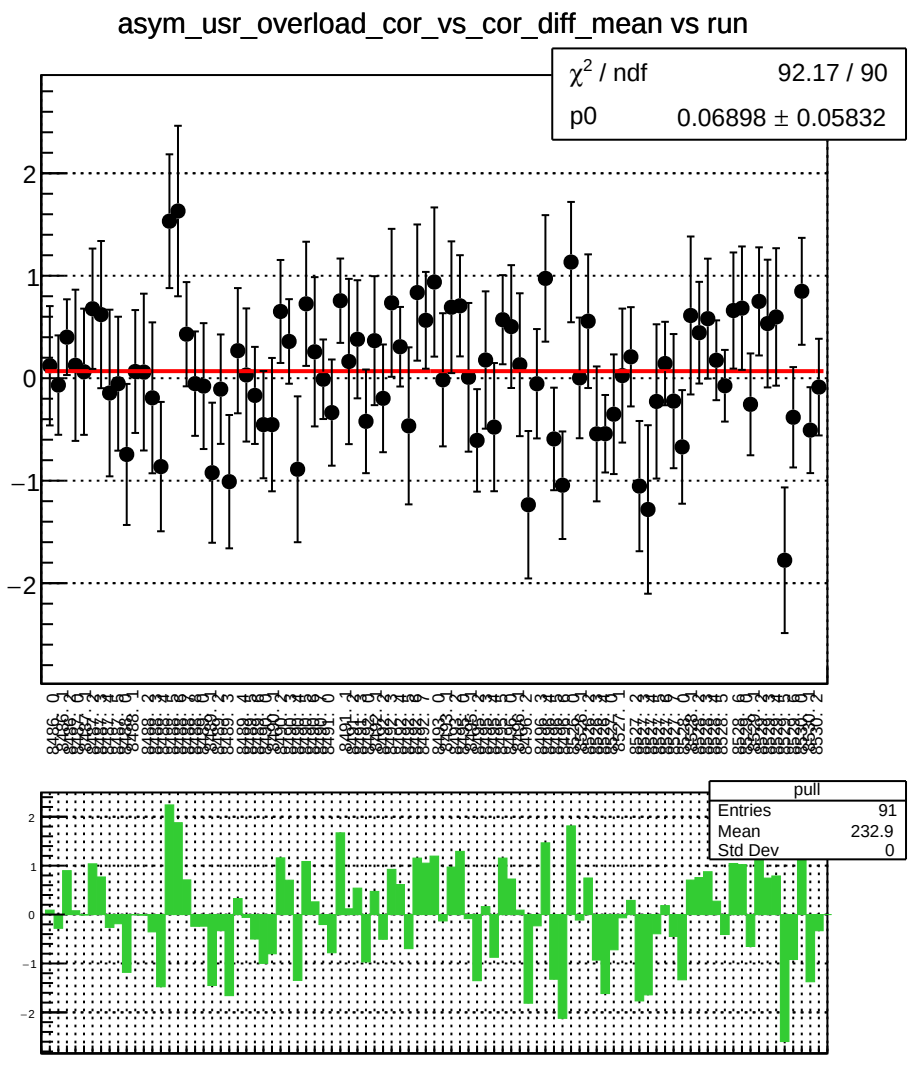

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 87.03 / 90
p0 −0.01346 ± 0.0871
pull
Entries 91
Mean 662.2
Std Dev 0
pull1D
Entries 91
Mean −0.002584
Std Dev 0.9779

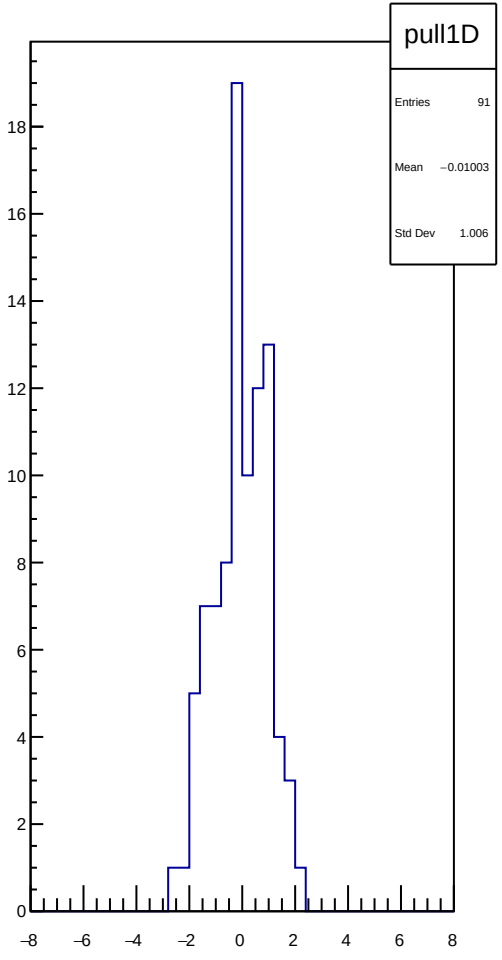

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 3.282e+04 / 90
p0 80.69 ± 0.06159
110
100
90
80
70
60

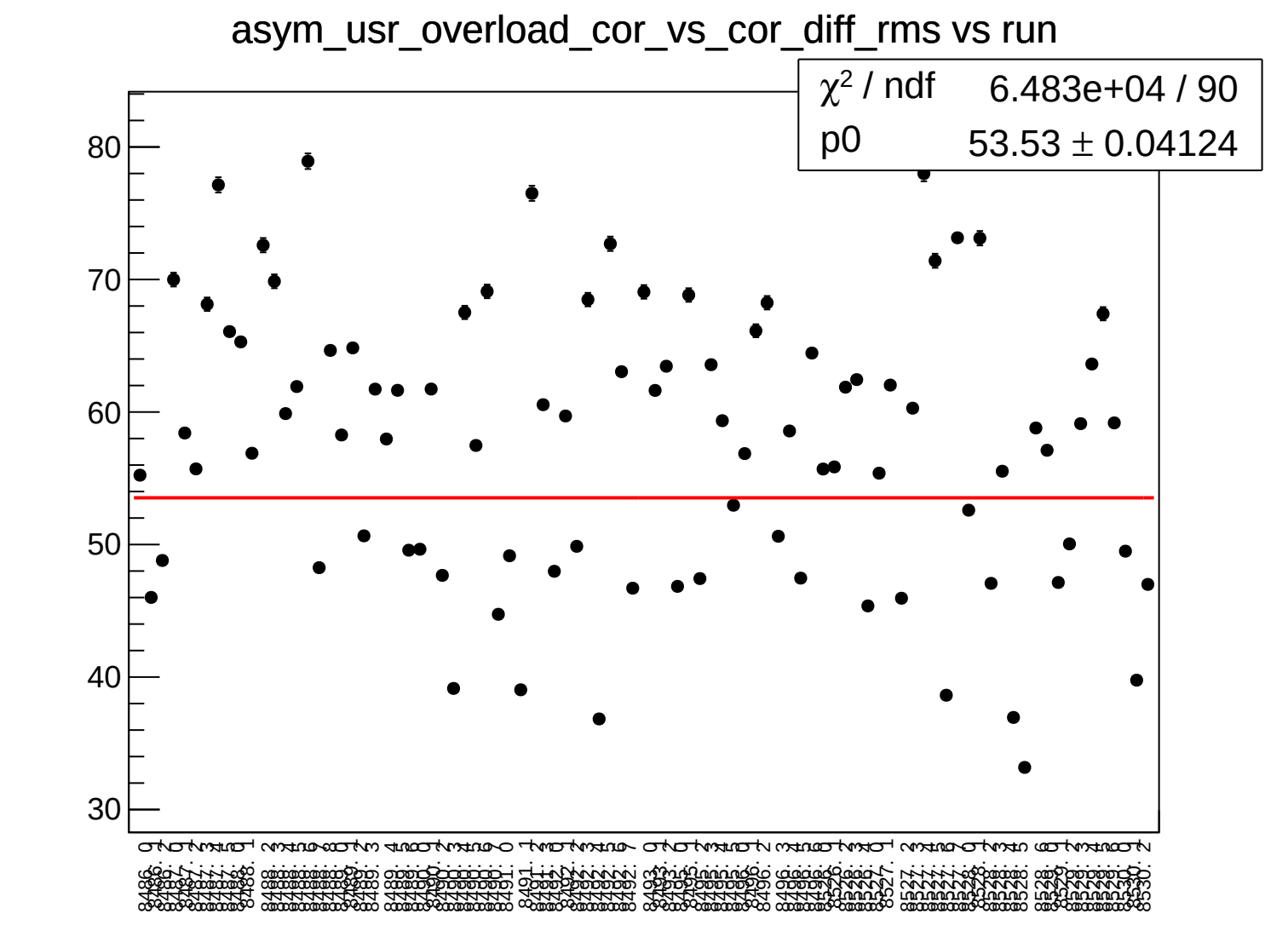

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.54 / 90
p0 −1.89e−13 ± 1.726e−13
pull
Entries 91
Mean 141
Std Dev 0

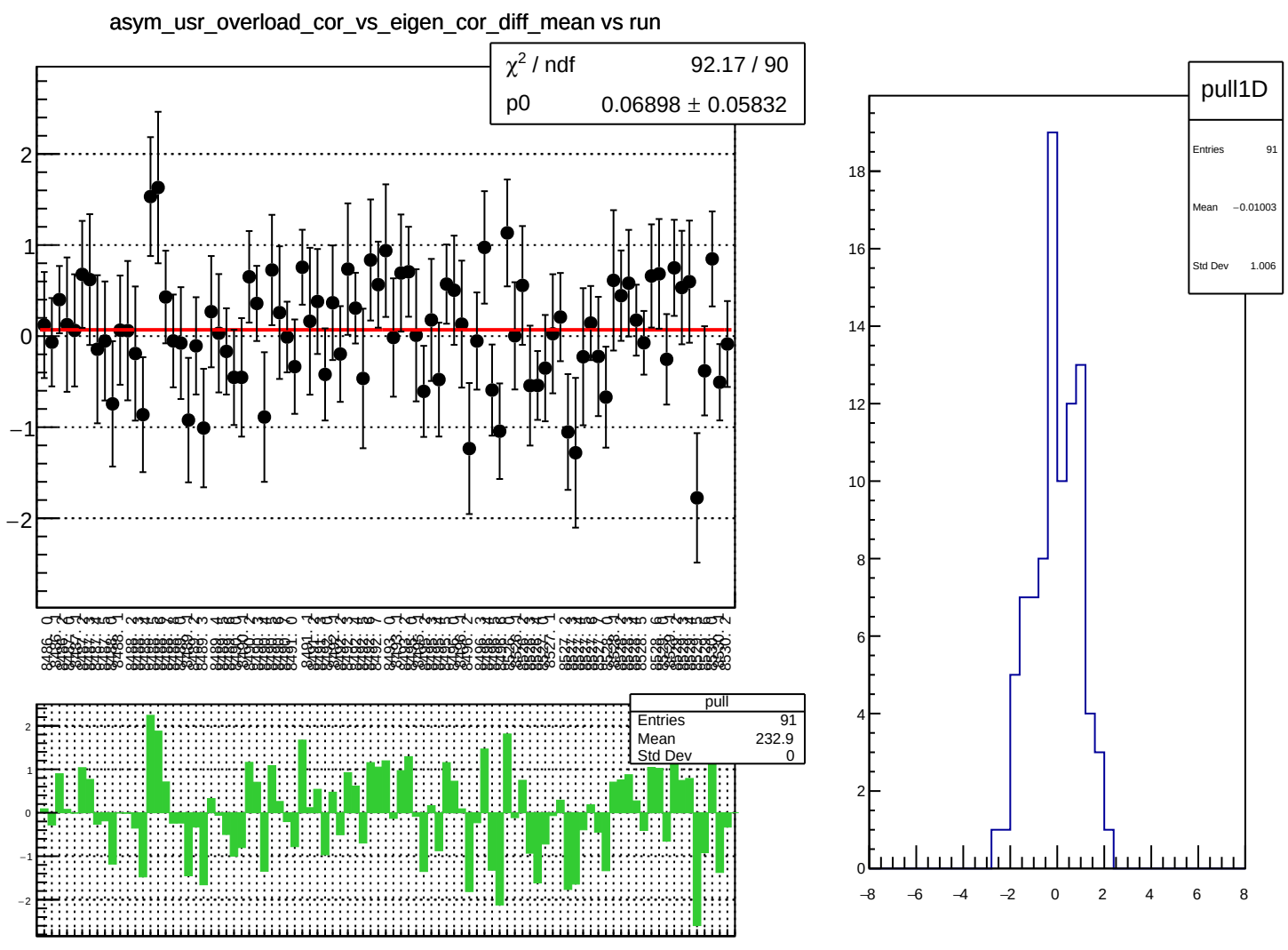

pull1D
Entries 91
Mean 0.06243
Std Dev 0.921

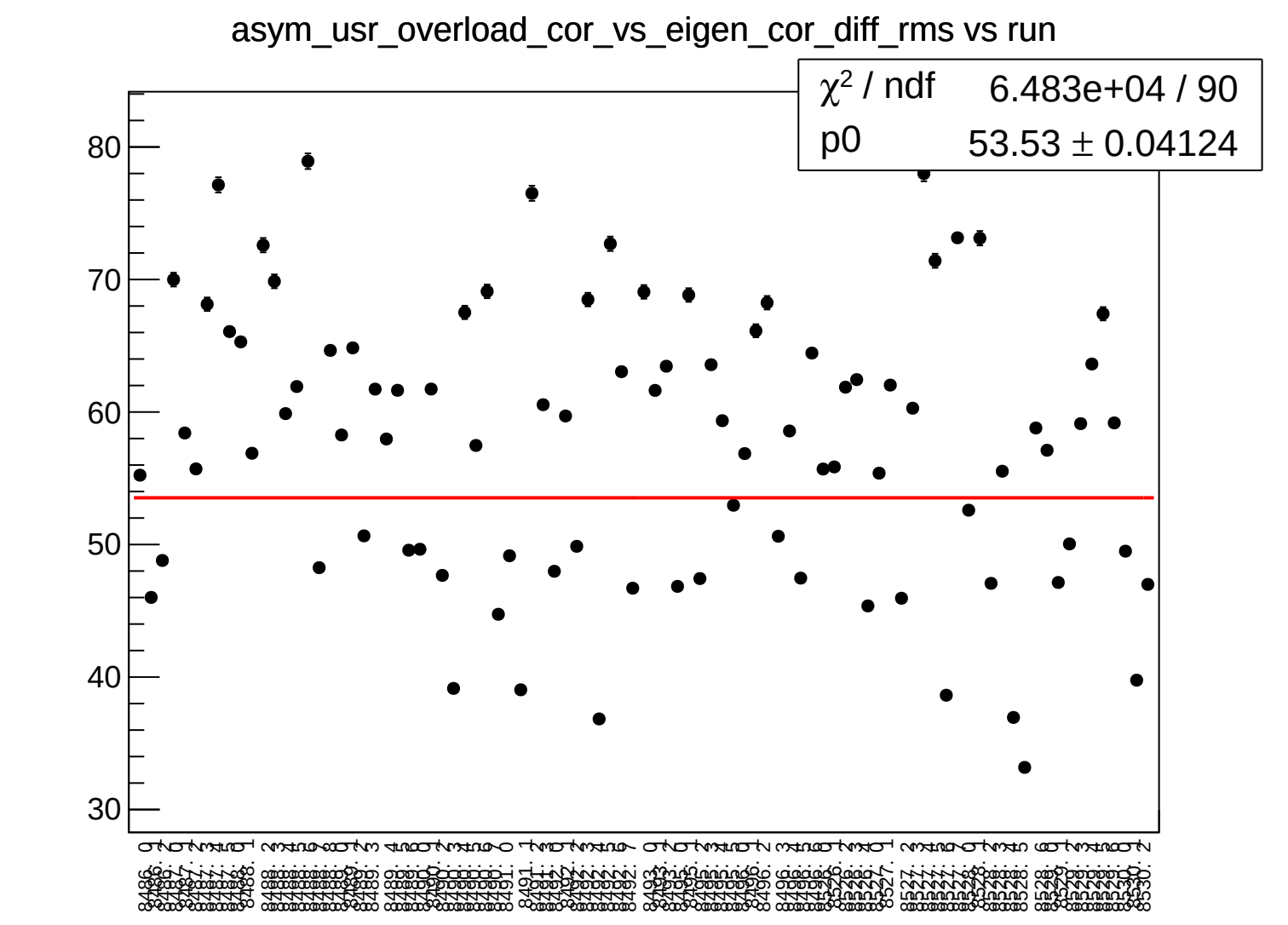

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.7
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 4.15e+05 / 90
p0 1.41e−10 ± 1.221e−13

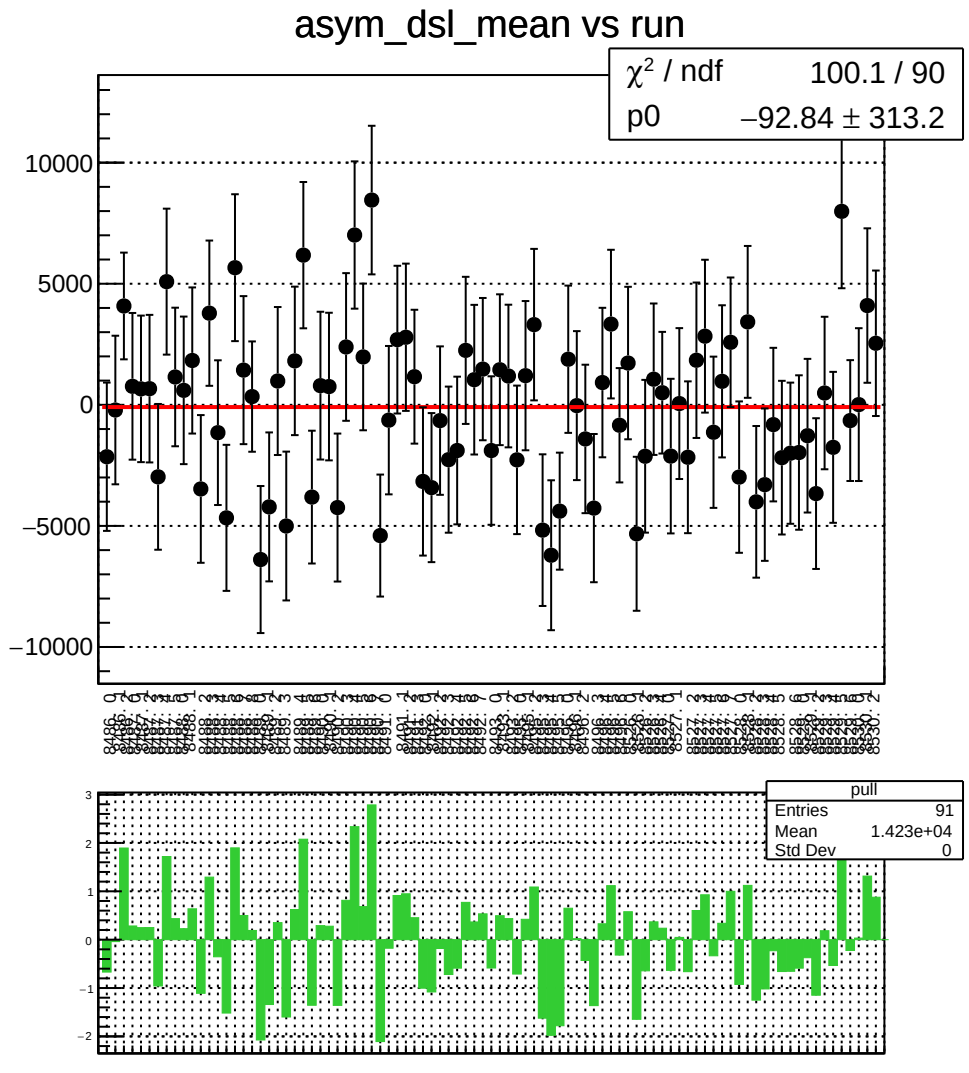

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 92.17 / 90
p0 0.06898 ± 0.05832
pull
Entries 91
Mean 232.9
Std Dev 0

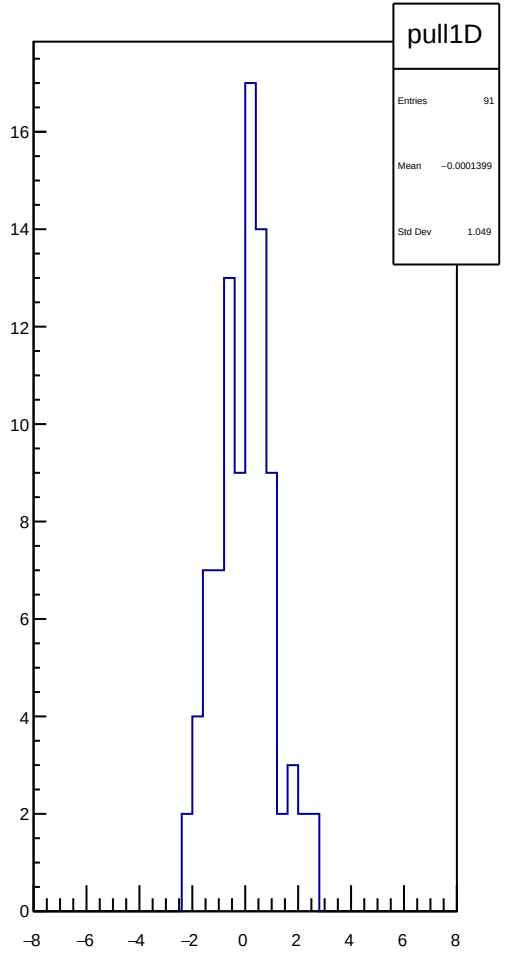

pull1D
Entries 91
Mean −0.01003
Std Dev 1.006

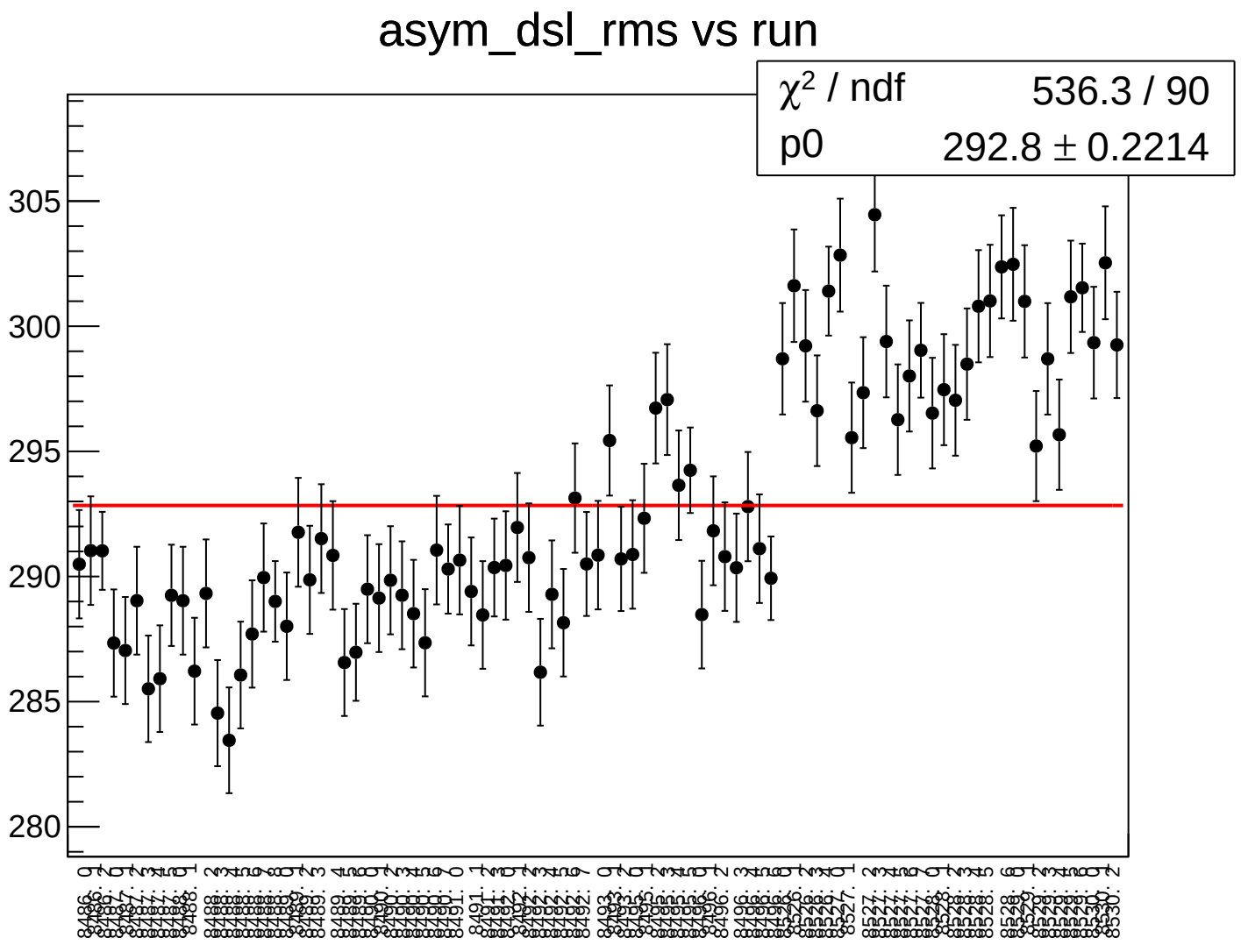

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 6.483e+04 / 90
p0 53.53 ± 0.04124
80
70
60
50
40
30

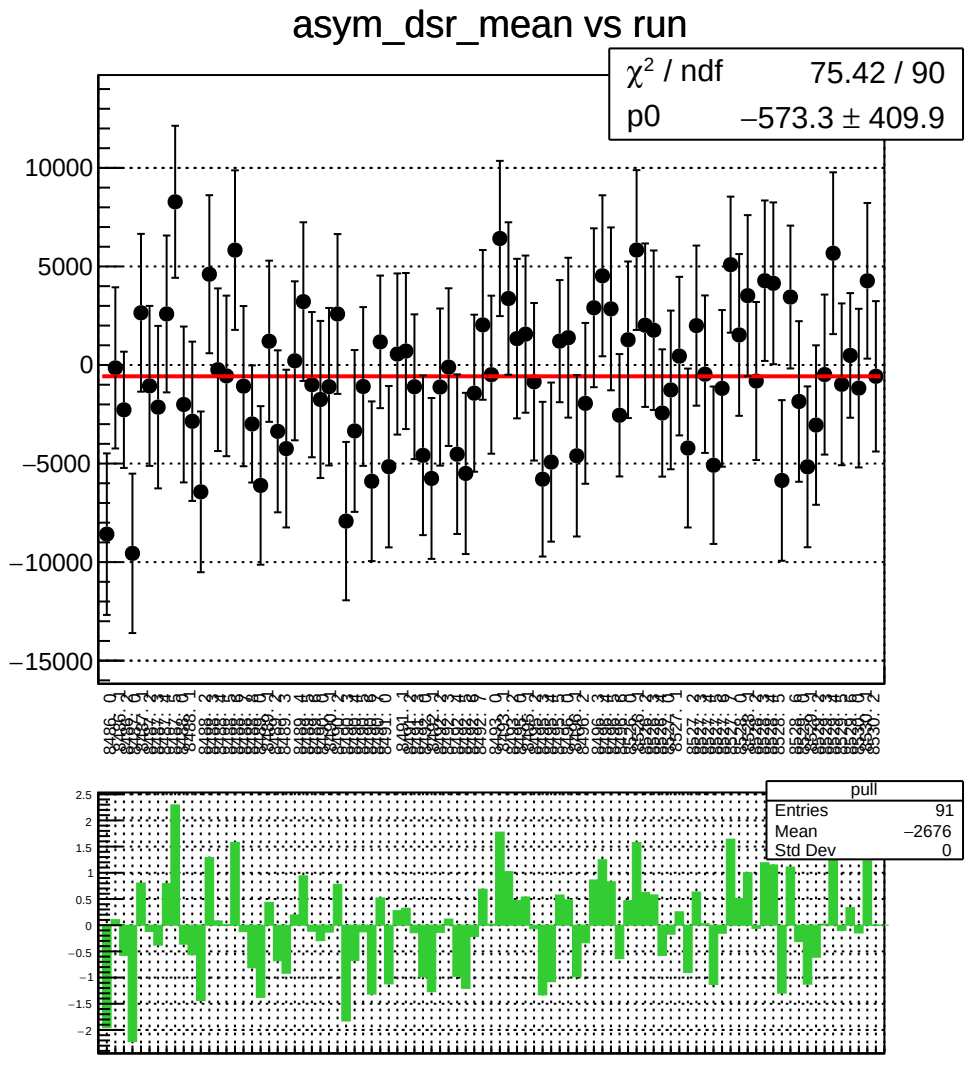

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.17 / 90
p0 0.06898 ± 0.05832
pull
Entries 91
Mean 232.9
Std Dev 0
pull1D
Entries 91
Mean −0.01003
Std Dev 1.006

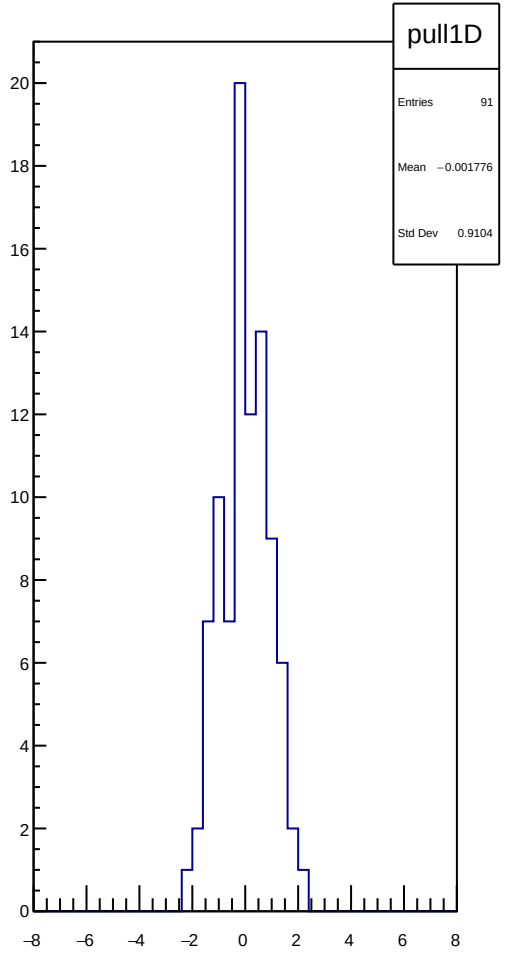

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.483e+04 / 90
p0 53.53 ± 0.04124
80
70
60
50
40
30

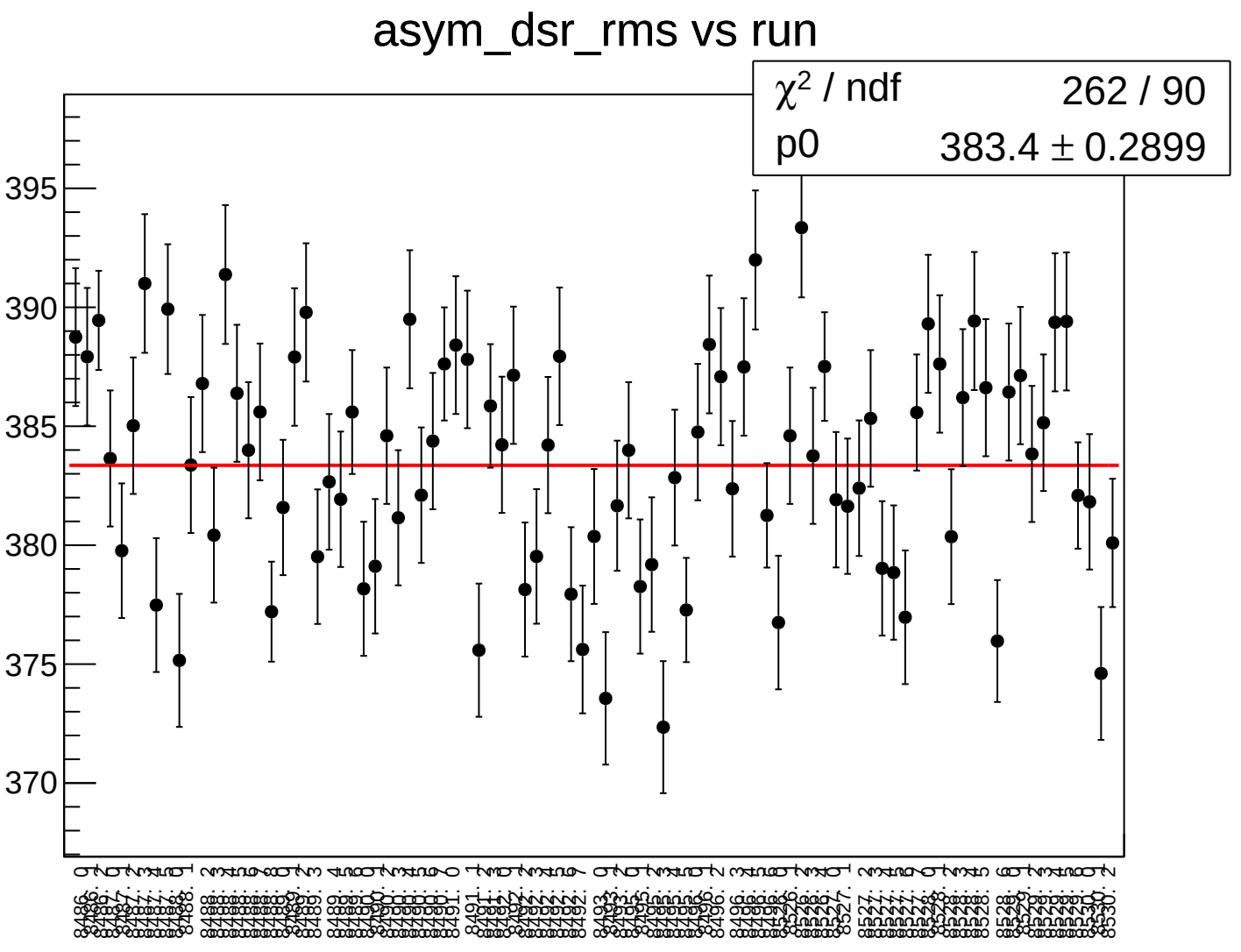

asym_dsl_mean vs run
χ² / ndf 100.1 / 90
p0 −92.84 ± 313.2
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 1.423e+04
Std Dev 0
3
2
1
0
−1
−2

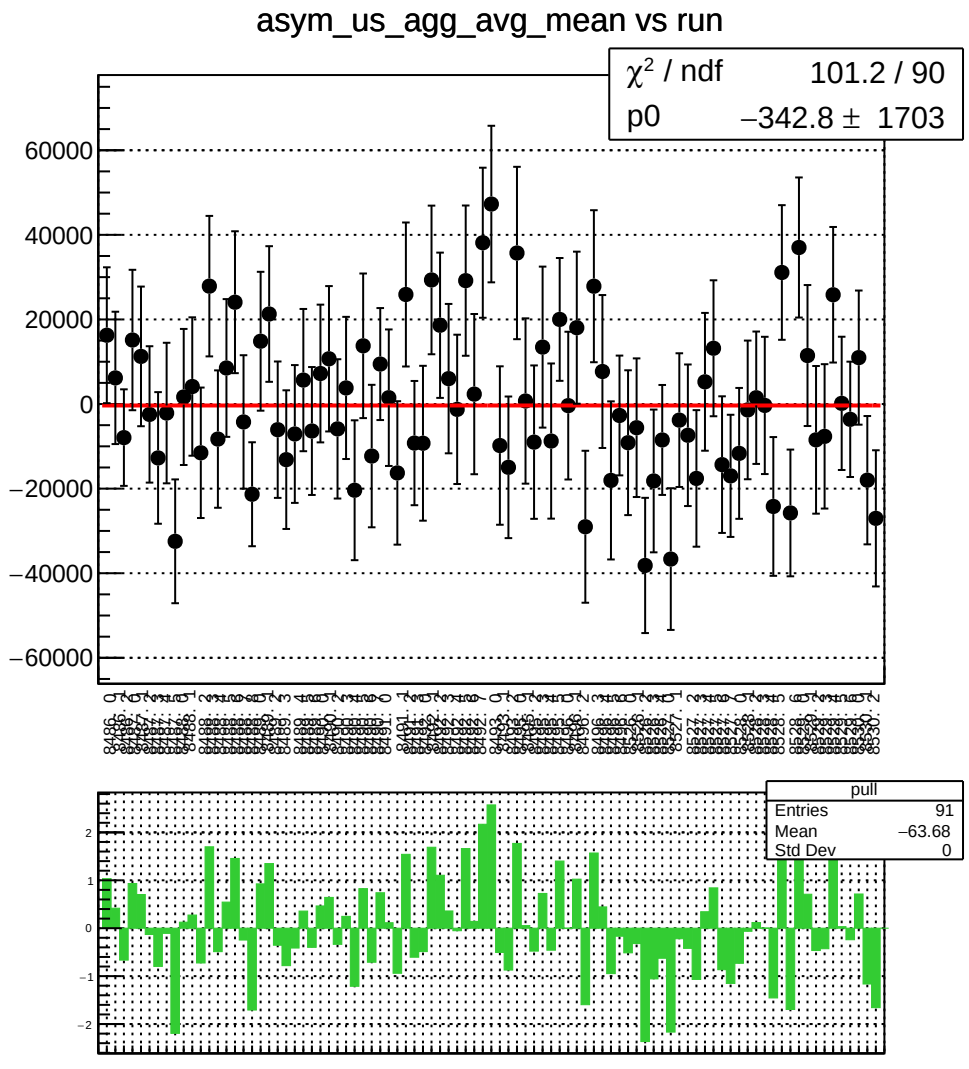

pull1D
Entries 91
Mean −0.0001399
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

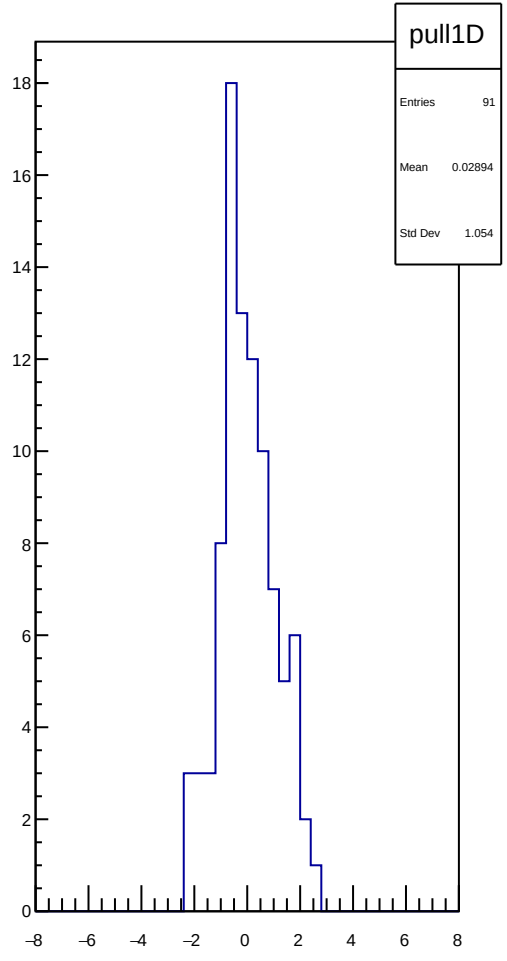

asym_dsl_rms vs run
χ² / ndf 536.3 / 90
p0 292.8 ± 0.2214
305
300
295
290
285
280

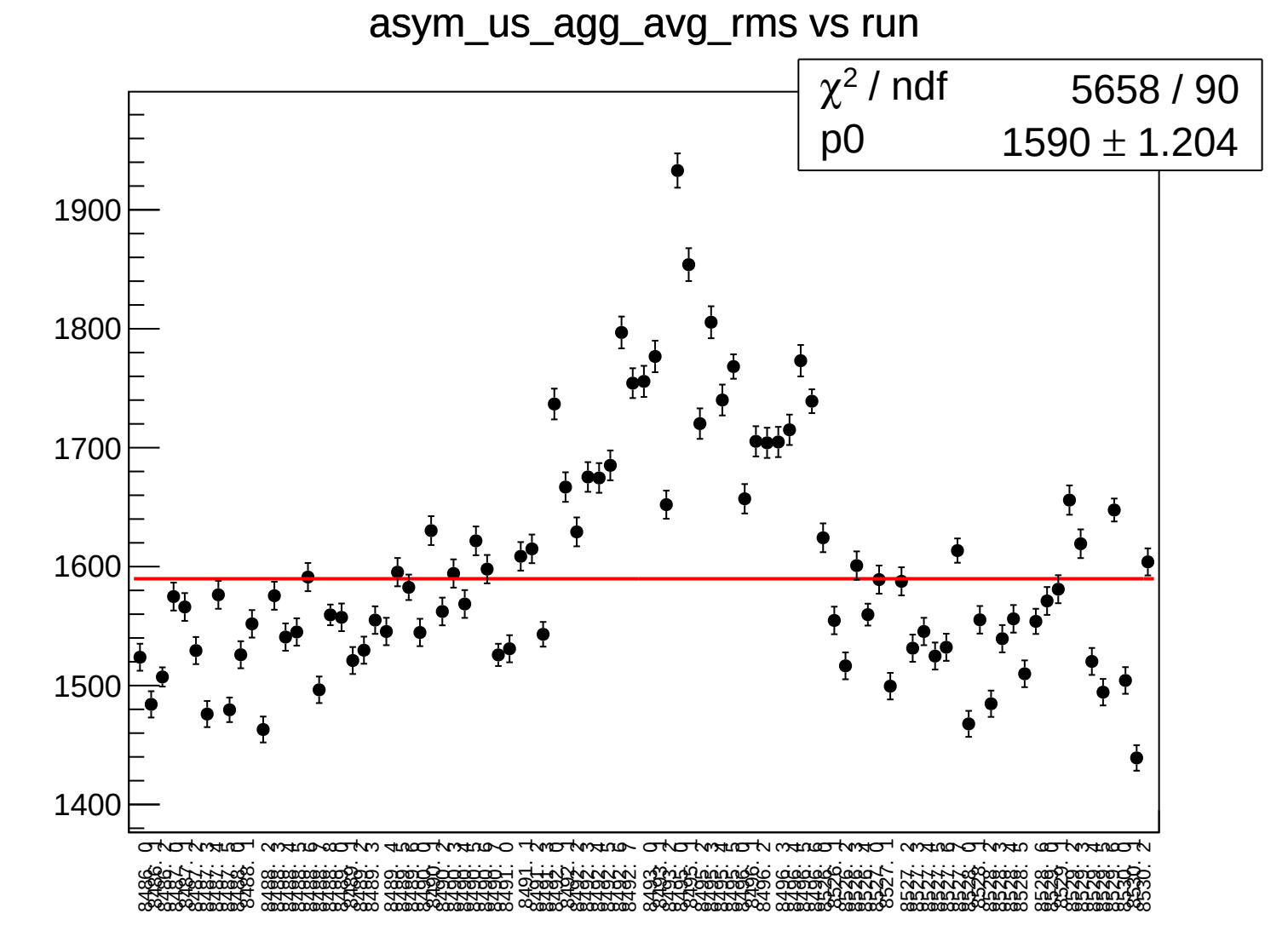

asym_dsr_mean vs run
χ² / ndf 75.42 / 90
p0 −573.3 ± 409.9
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean −2676
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

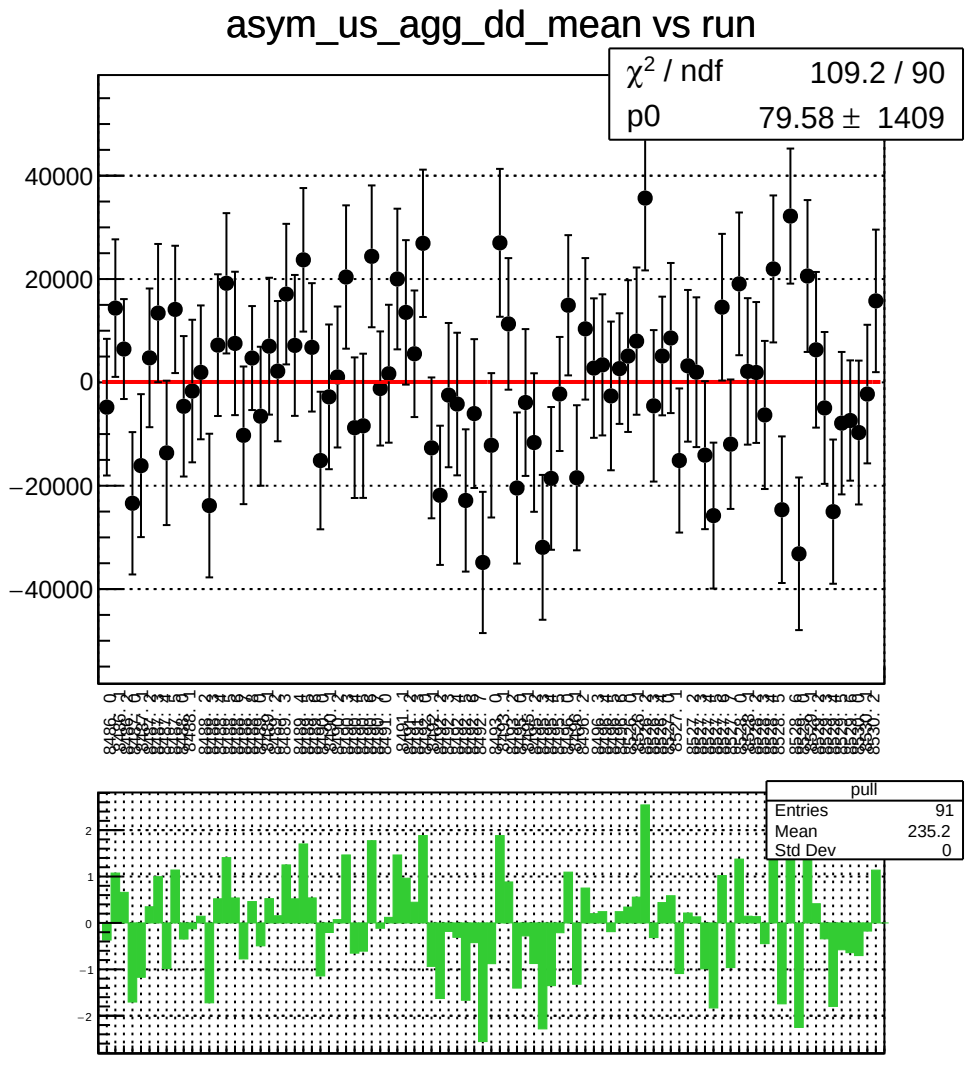

pull1D
Entries 91
Mean −0.001776
Std Dev 0.9104
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

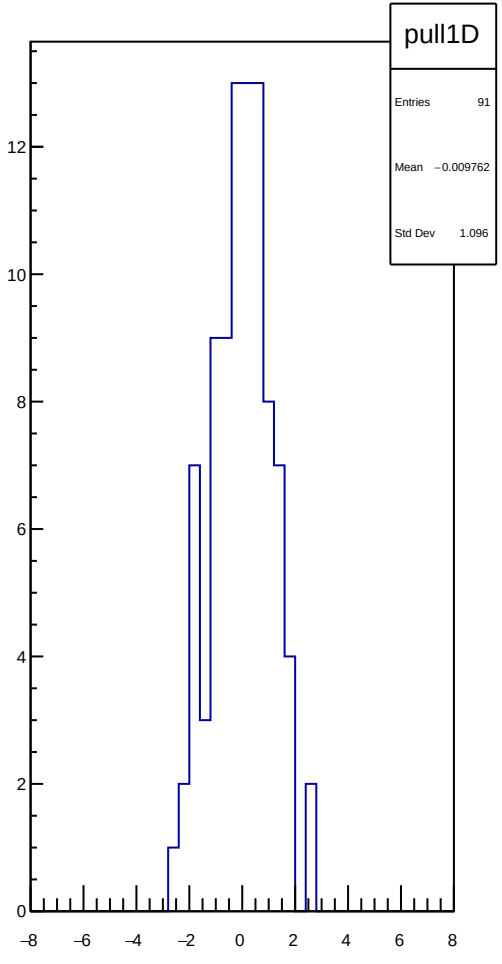

asym_dsr_rms vs run
χ^2 / ndf 262 / 90
p0 383.4 ± 0.2899
395
390
385
380
375
370

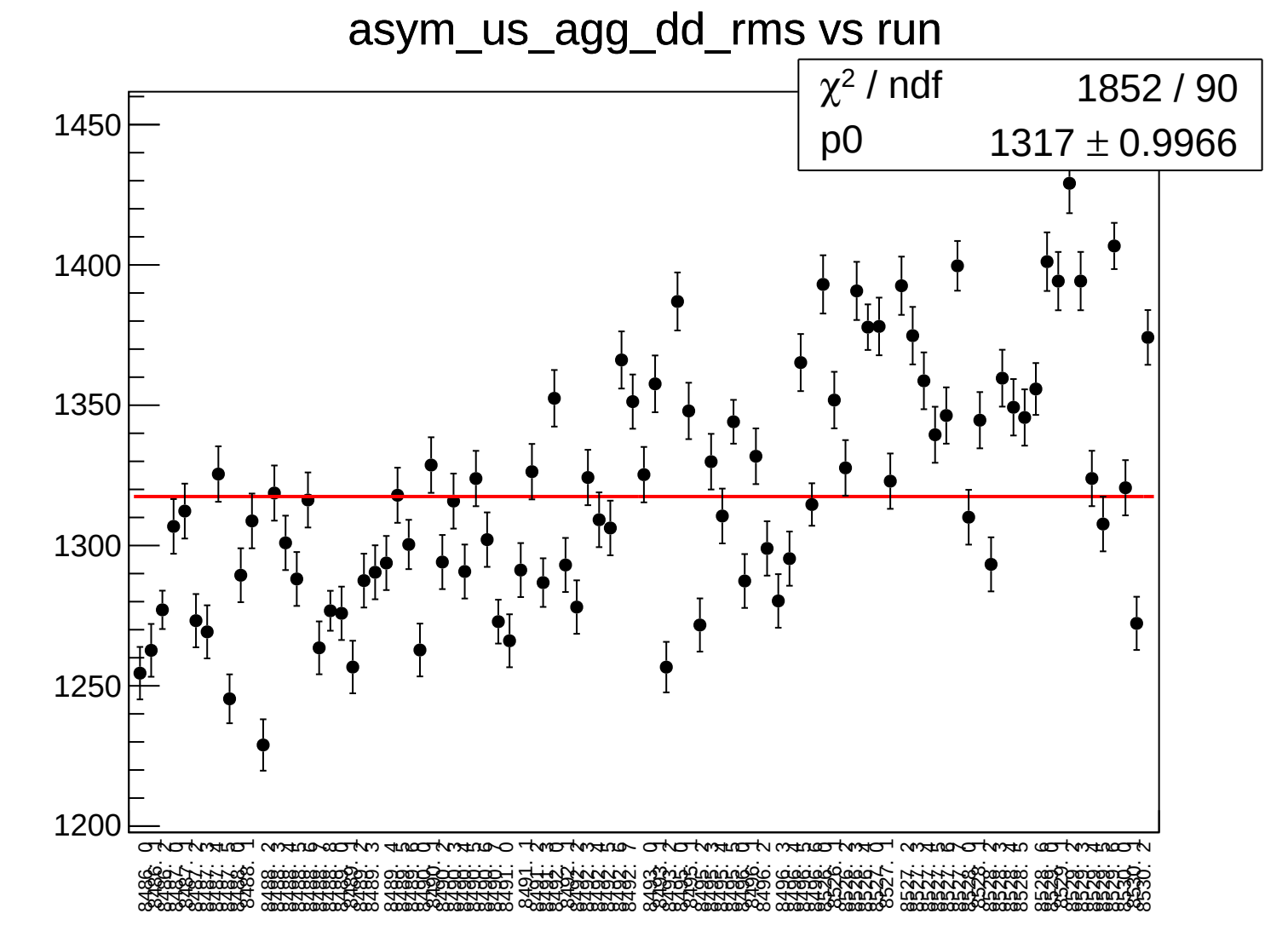

asym_us_agg_avg_mean vs run
χ² / ndf 101.2 / 90
p0 −342.8 ± 1703
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −63.68
Std Dev 0
2
1
0
−1
−2

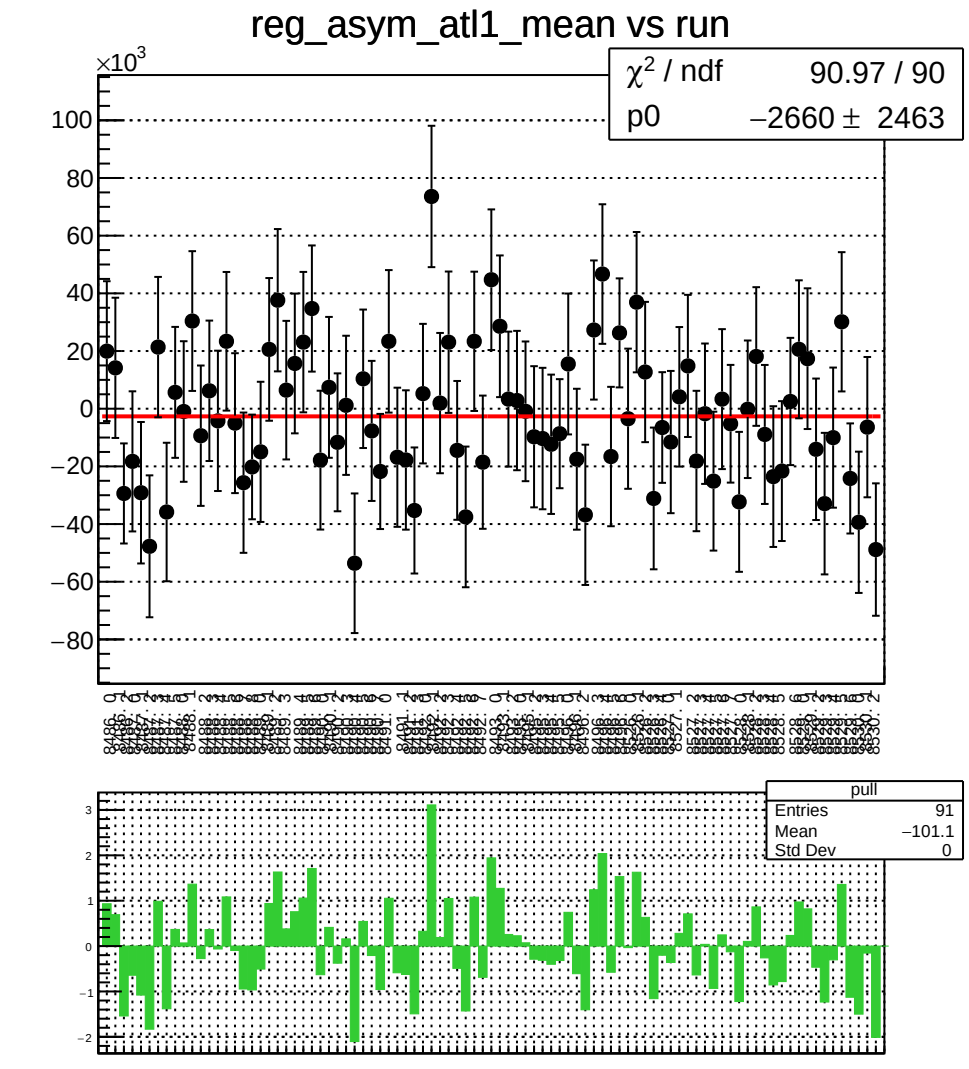

pull1D
Entries 91
Mean 0.02894
Std Dev 1.054
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

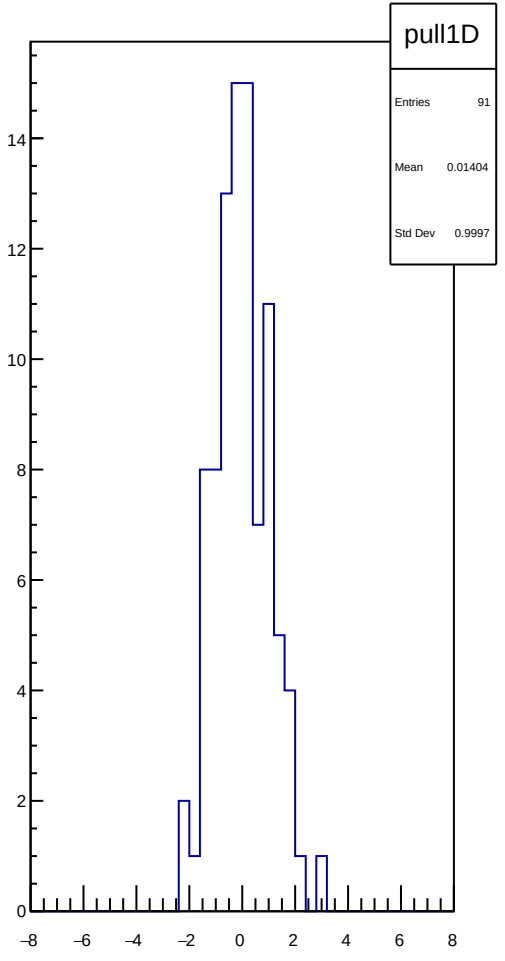

asym_us_agg_avg_rms vs run
χ^2 / ndf 5658 / 90
p0 1590 ± 1.204
1900
1800
1700
1600
1500
1400

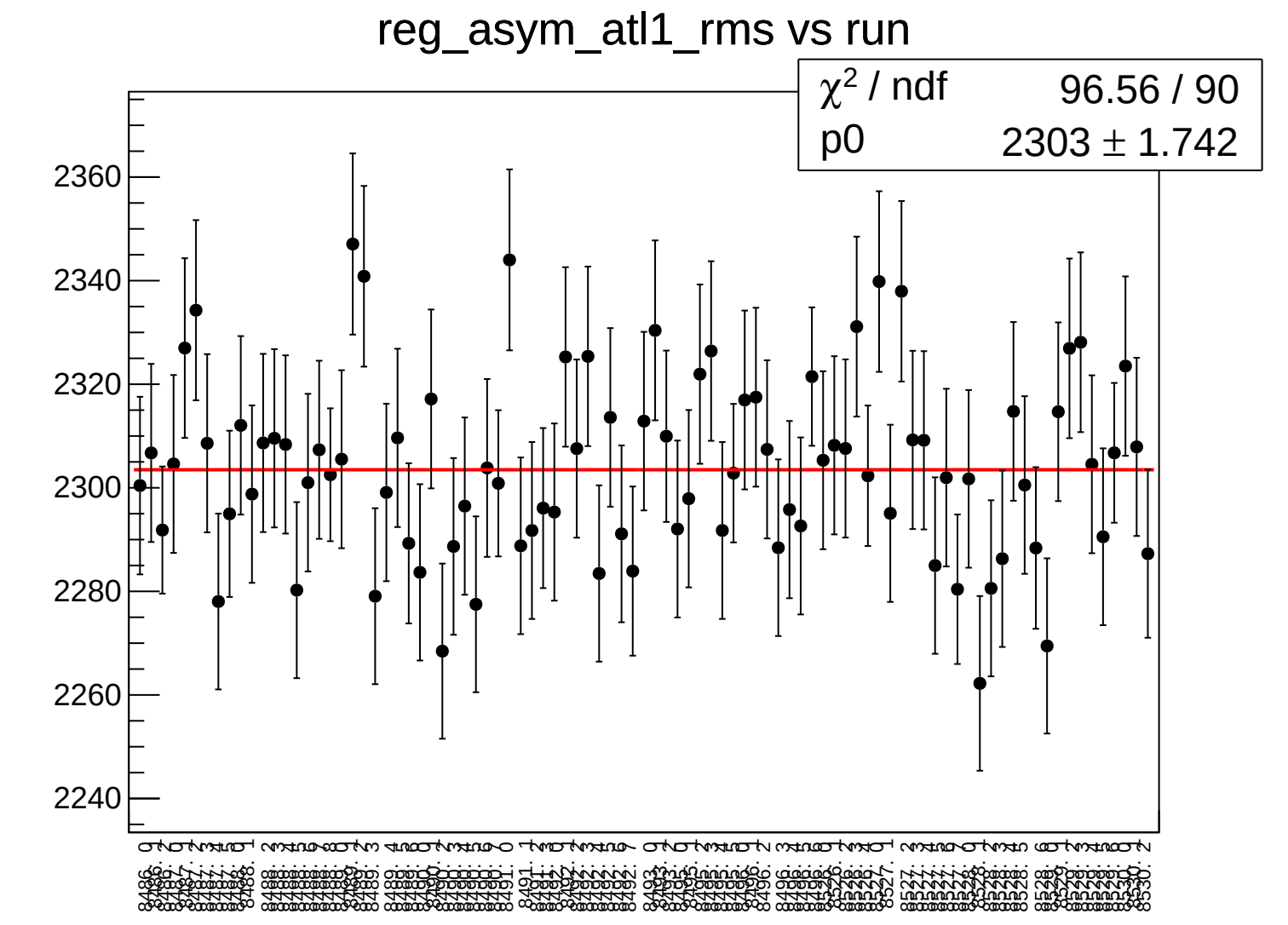

asym_us_agg_dd_mean vs run
χ² / ndf 109.2 / 90
p0 79.58 ± 1409
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 235.2
Std Dev 0
2
1
0
−1
−2

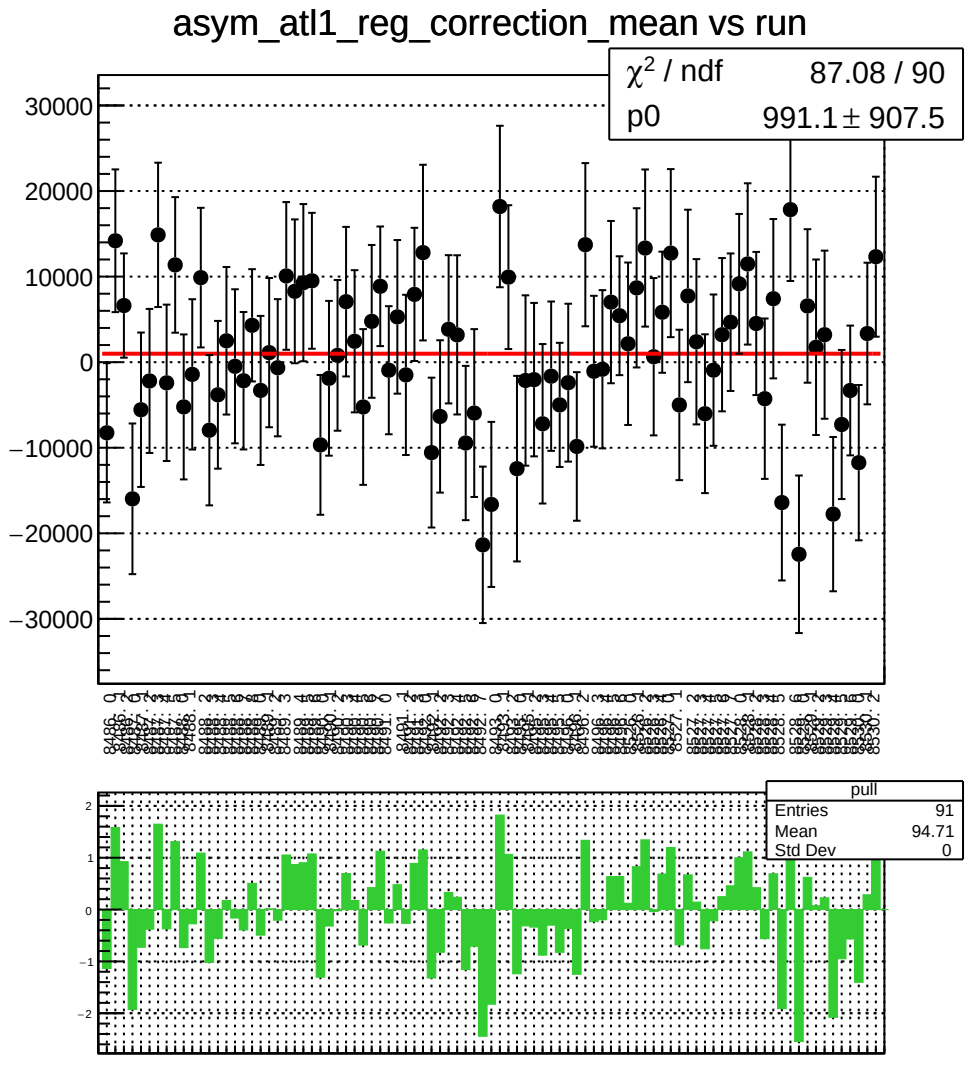

pull1D
Entries 91
Mean −0.009762
Std Dev 1.096
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

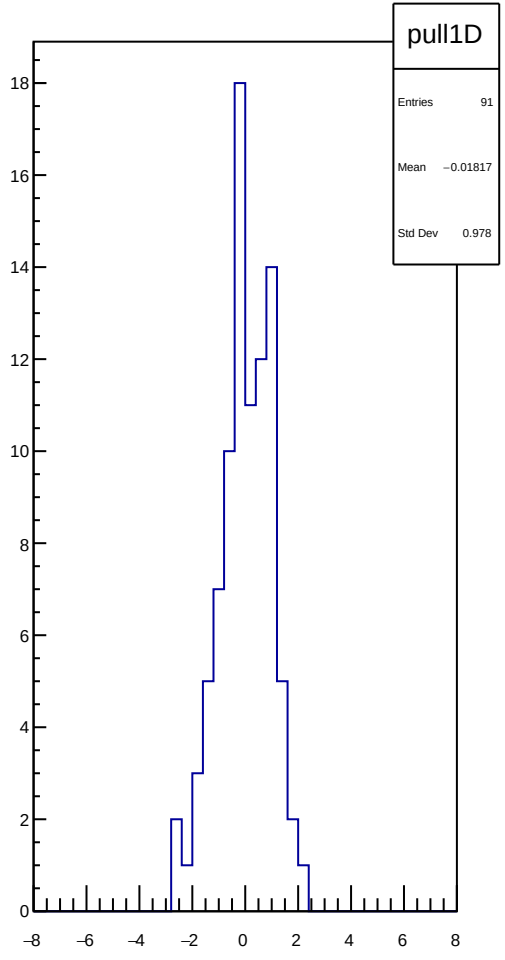

asym_us_agg_dd_rms vs run
χ² / ndf 1852 / 90
p0 1317 ± 0.9966
1450
1400
1350
1300
1250
1200

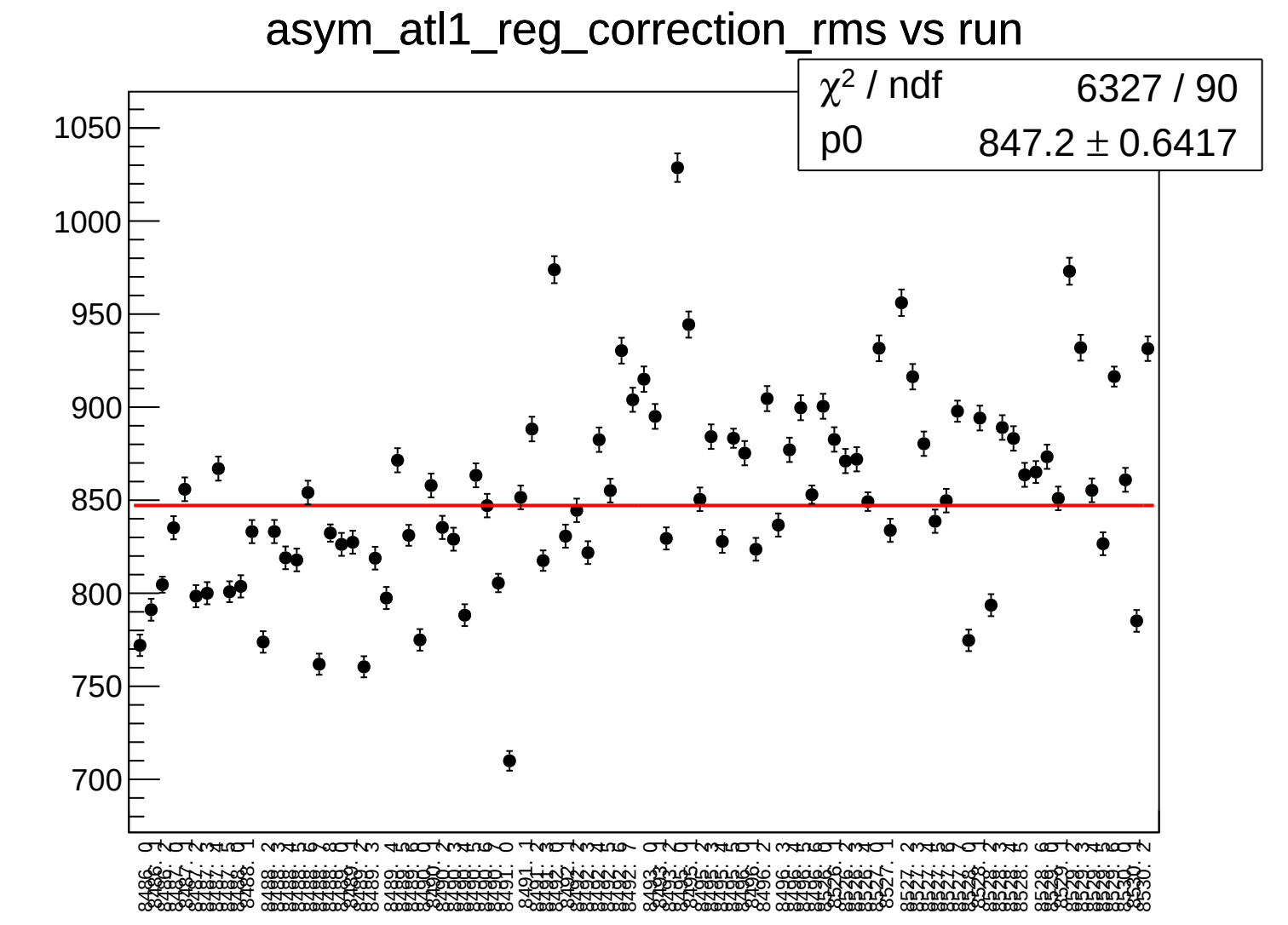

reg_asym_atl1_mean vs run
×10^3
χ^2 / ndf 90.97 / 90
p0 −2660 ± 2463
pull
Entries 91
Mean −101.1
Std Dev 0

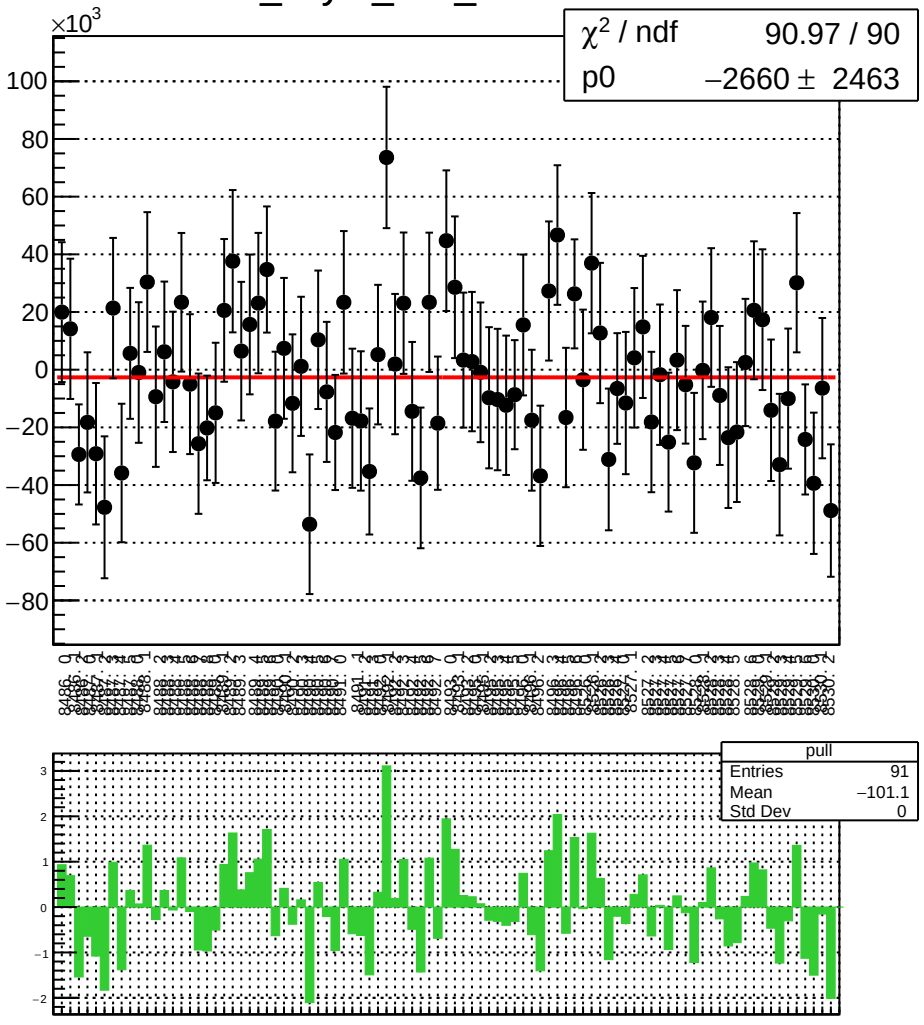

pull1D
Entries 91
Mean 0.01404
Std Dev 0.9997

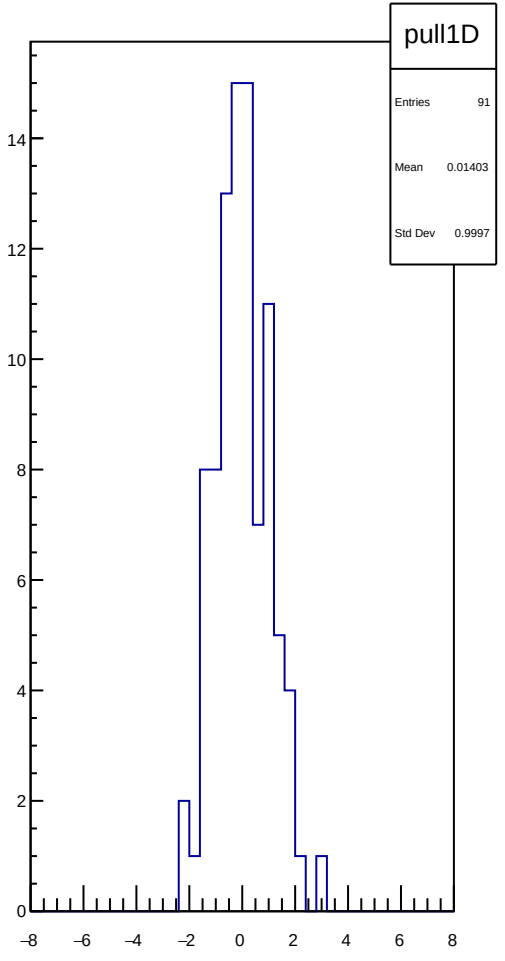

reg_asym_atl1_rms vs run
χ^2 / ndf 96.56 / 90
p0 2303 ± 1.742
2360
2340
2320
2300
2280
2260
2240

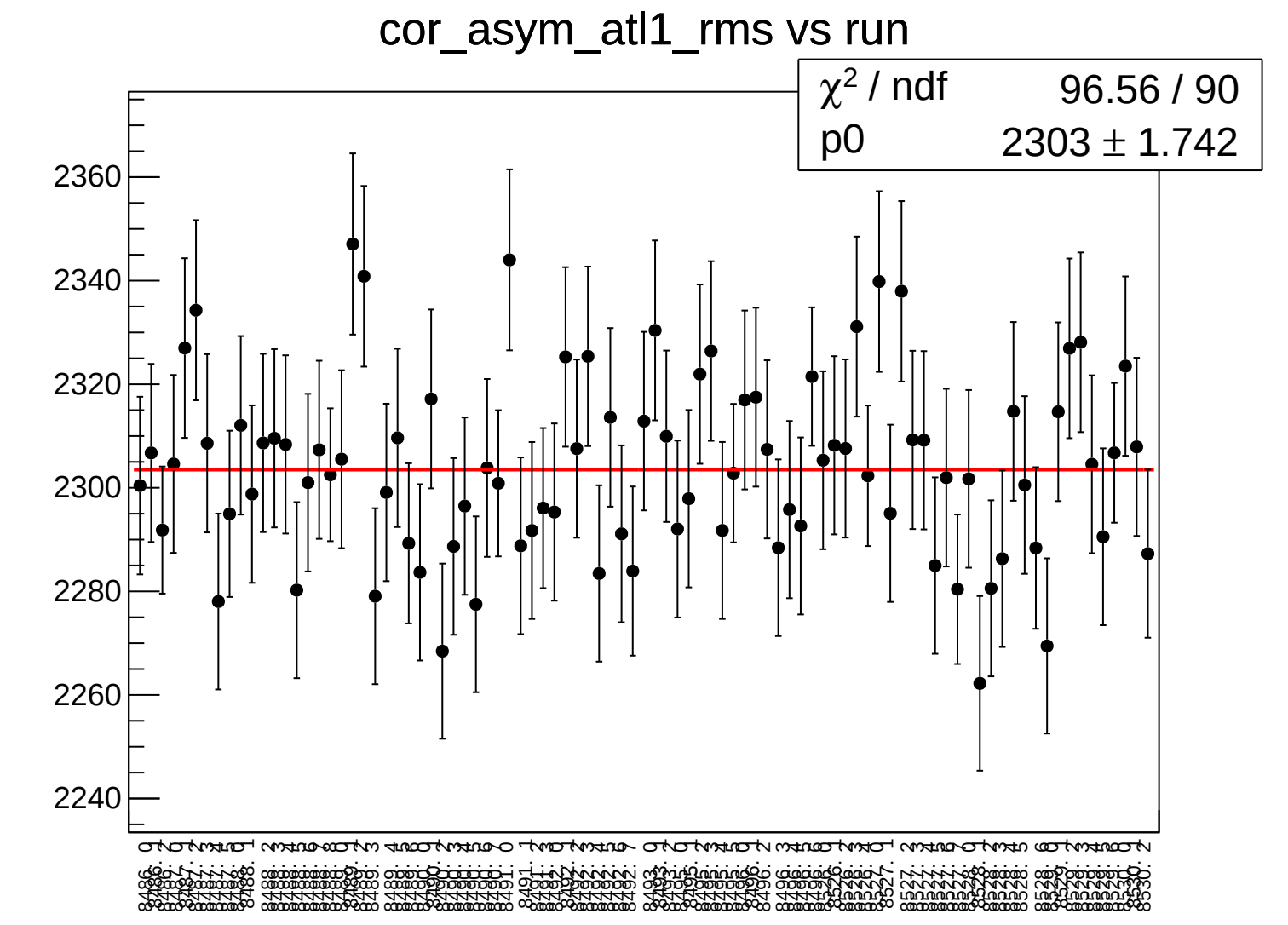

asym_atl1_reg_correction_mean vs run
χ² / ndf 87.08 / 90
p0 991.1 ± 907.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 94.71
Std Dev 0
2
1
0
−1
−2

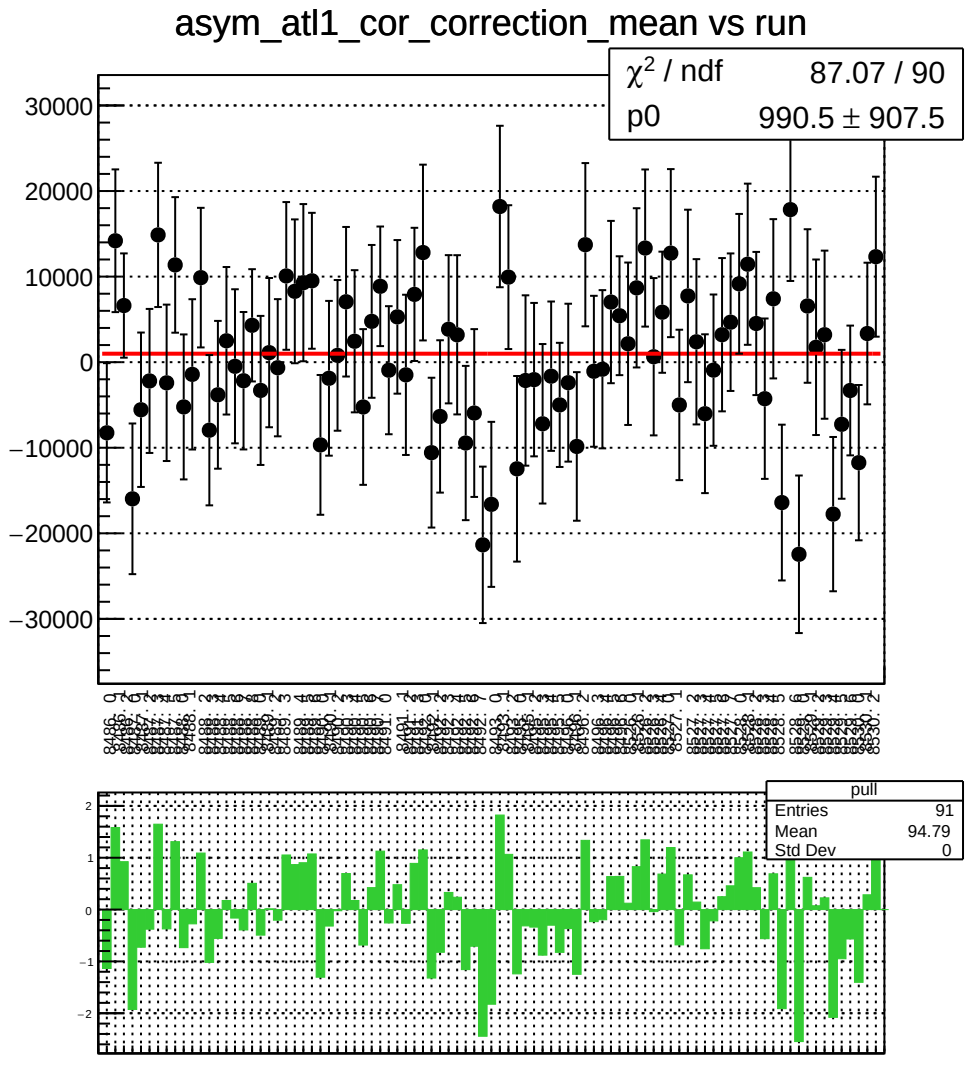

pull1D
Entries 91
Mean −0.01817
Std Dev 0.978
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

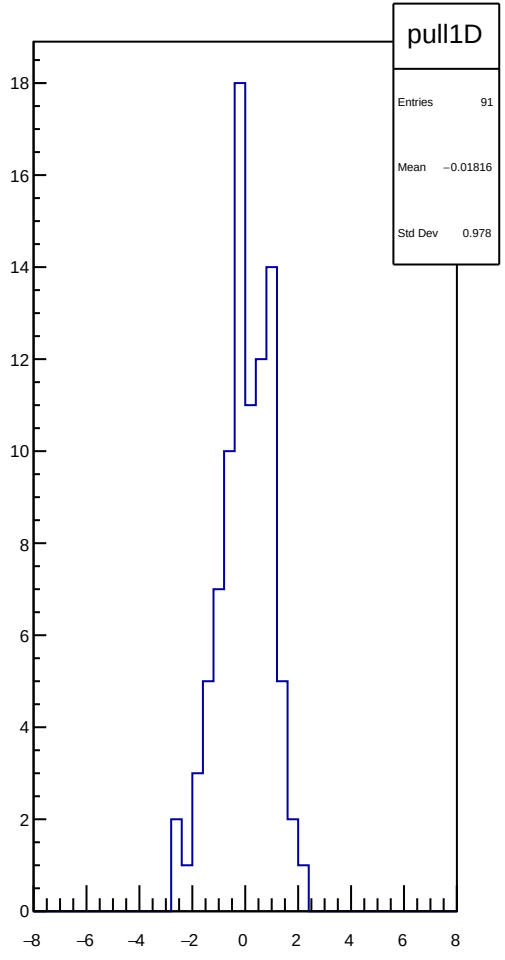

asym_atl1_reg_correction_rms vs run
χ² / ndf 6327 / 90
p0 847.2 ± 0.6417
1050
1000
950
900
850
800
750
700

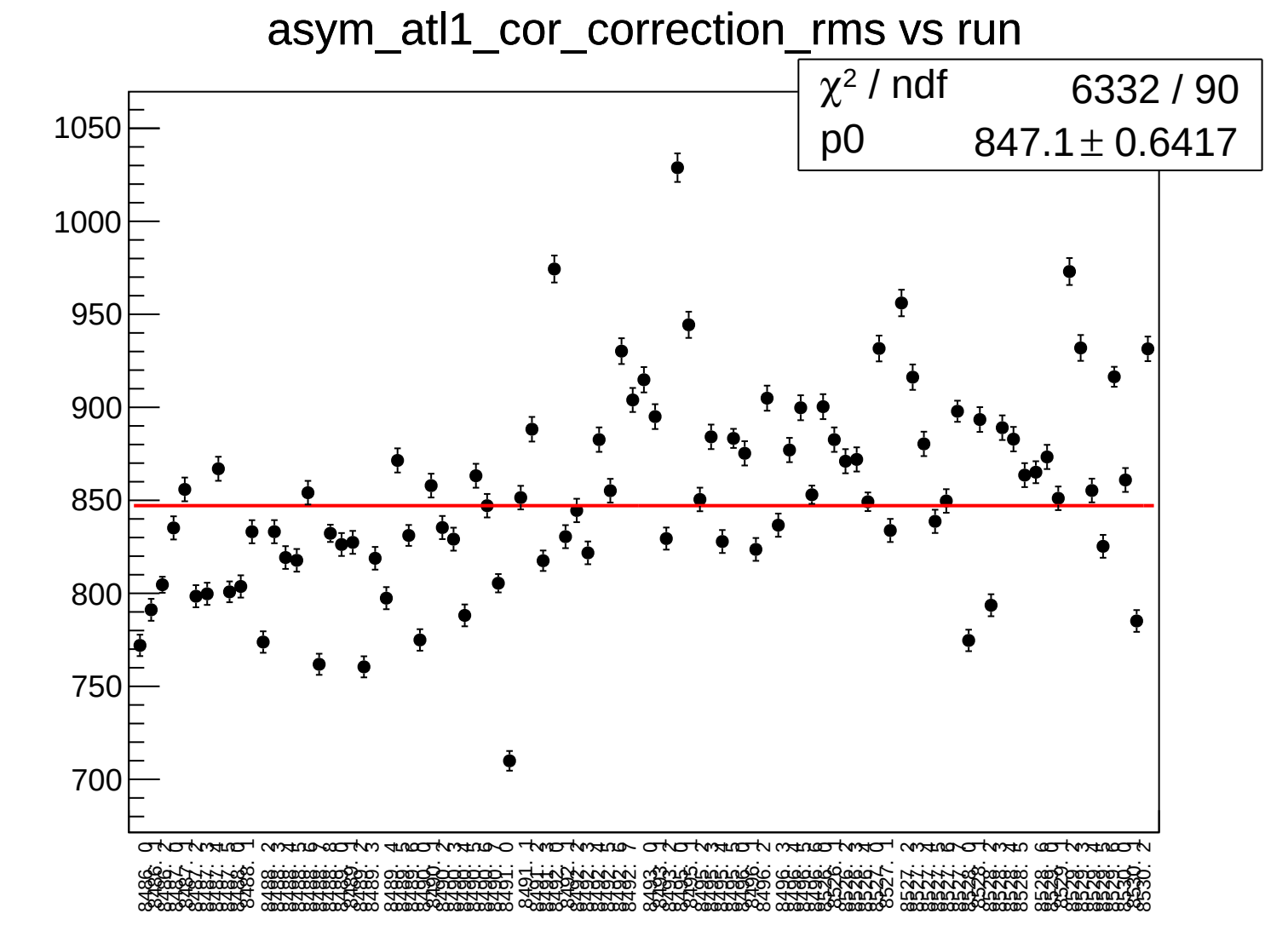

cor_asym_atl1_mean vs run
×10^3
χ^2 / ndf 90.97 / 90
p0 −2660 ± 2463
pull
Entries 91
Mean −101.1
Std Dev 0

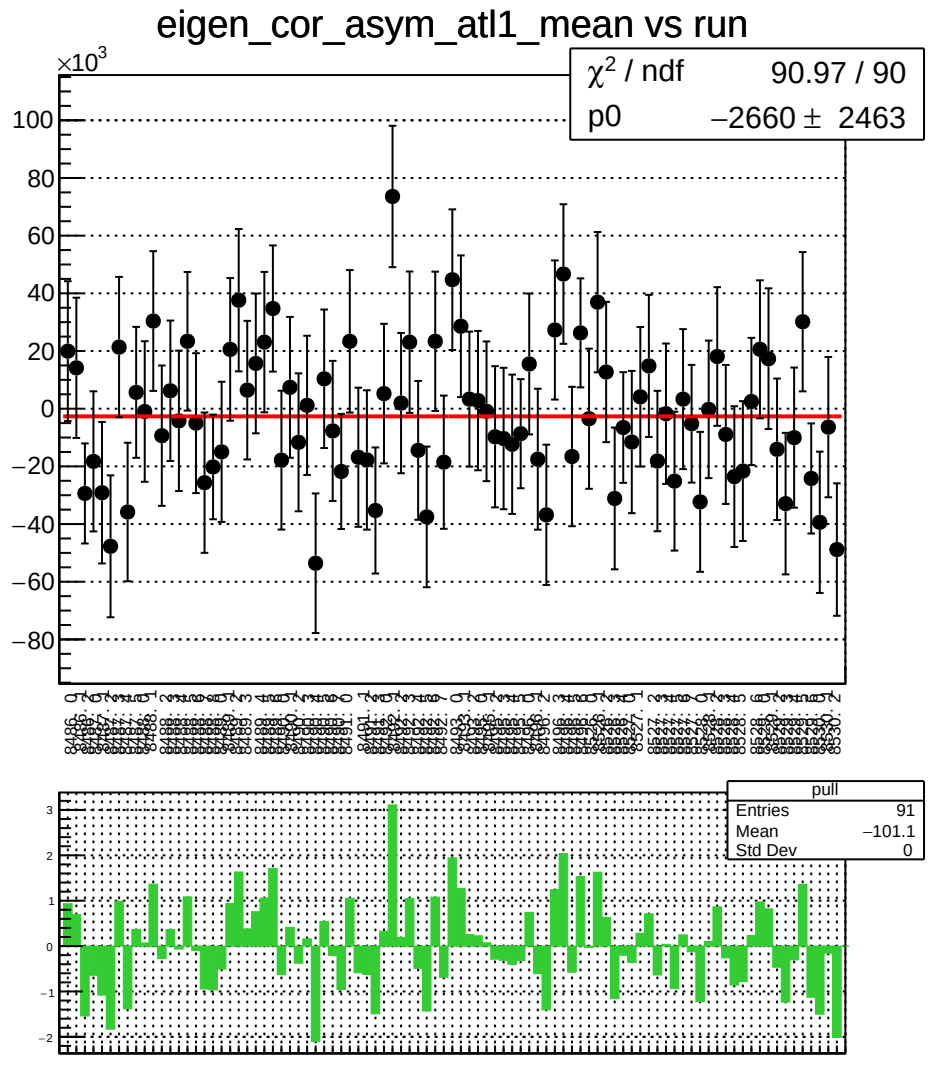

pull1D
Entries 91
Mean 0.01403
Std Dev 0.9997

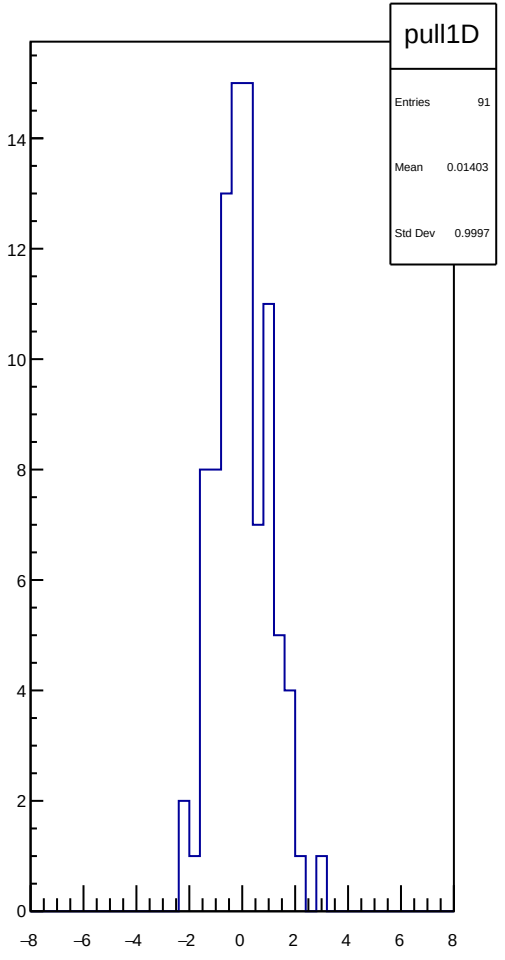

cor_asym_atl1_rms vs run
χ^2 / ndf 96.56 / 90
p0 2303 ± 1.742
2360
2340
2320
2300
2280
2260
2240

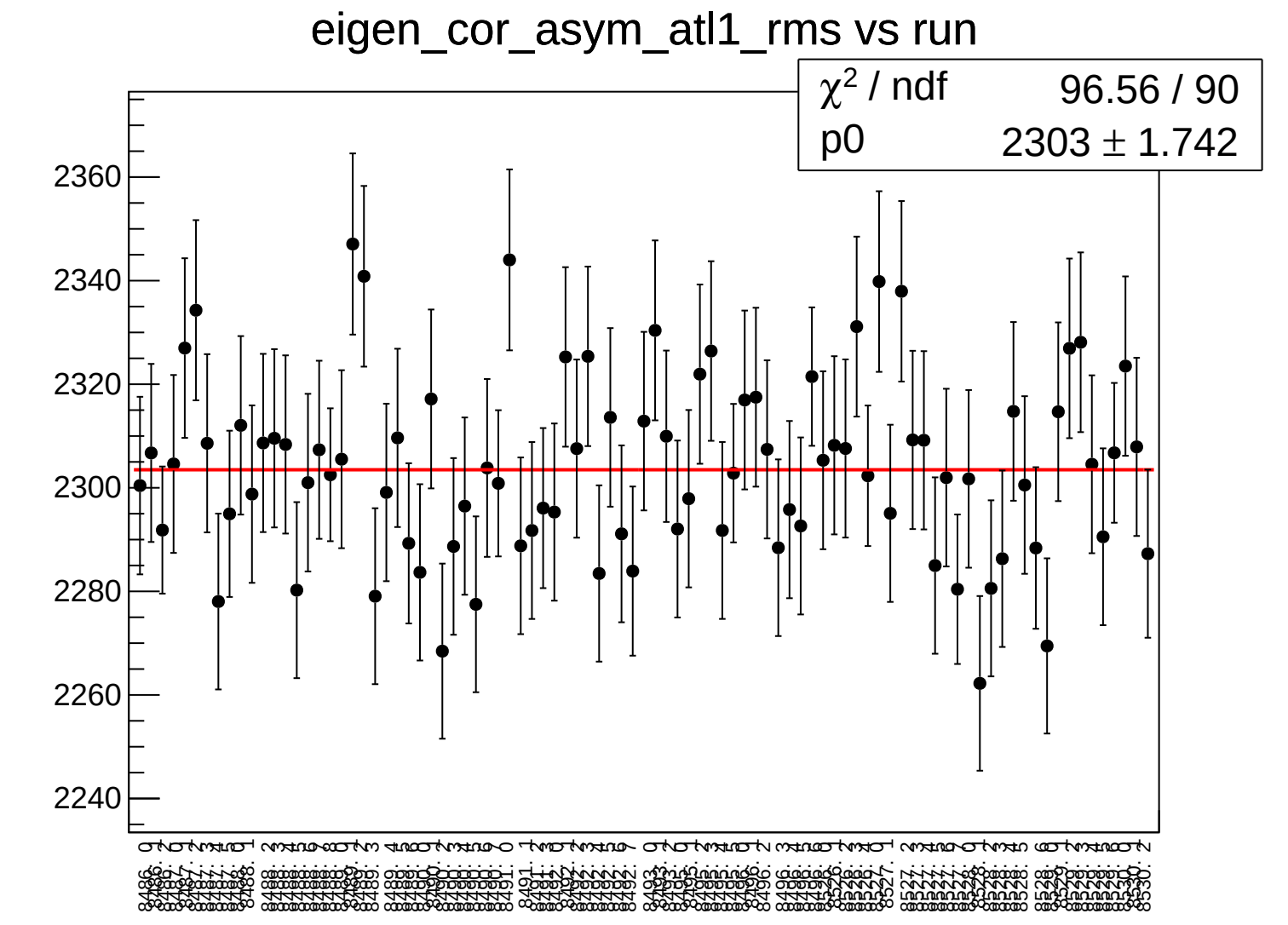

asym_atl1_cor_correction_mean vs run
χ² / ndf 87.07 / 90
p0 990.5 ± 907.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 94.79
Std Dev 0
2
1
0
−1
−2

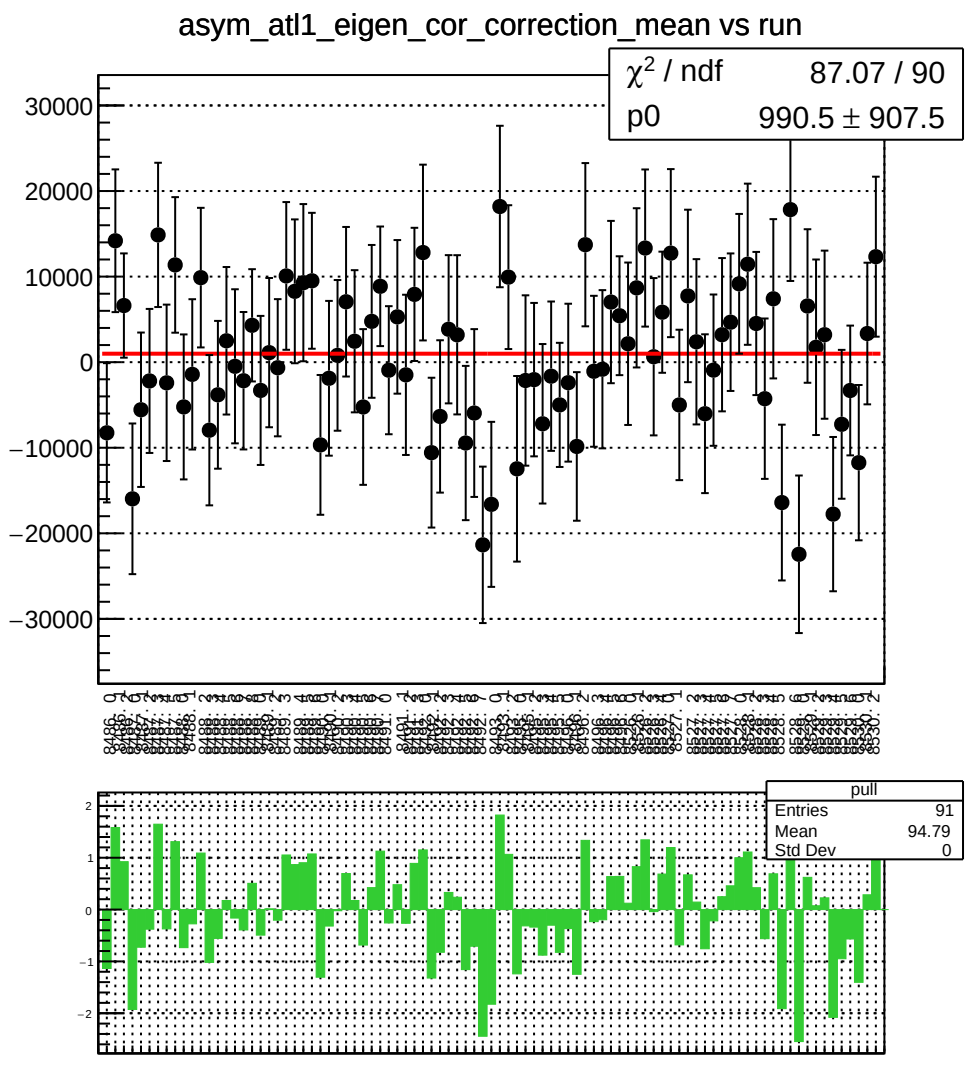

pull1D
Entries 91
Mean −0.01816
Std Dev 0.978
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

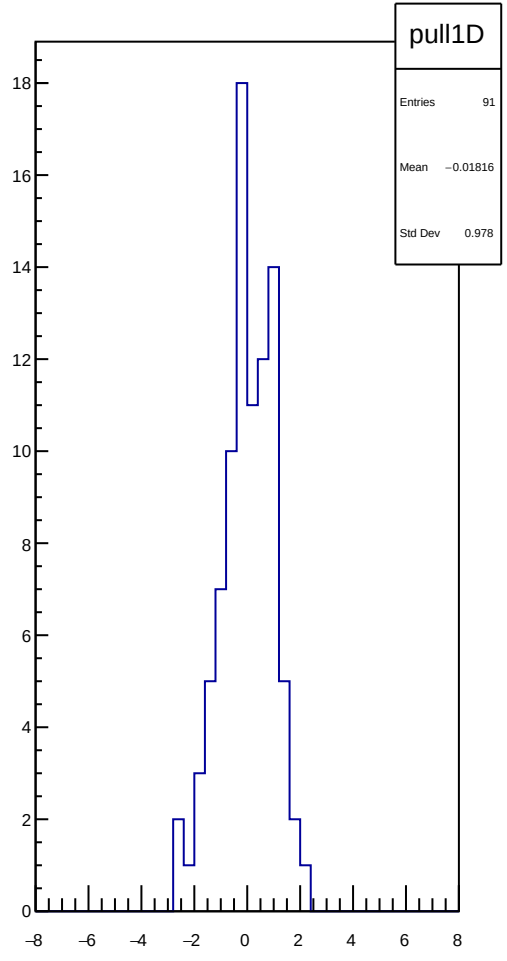

asym_atl1_cor_correction_rms vs run
χ² / ndf 6332 / 90
p0 847.1 ± 0.6417
1050
1000
950
900
850
800
750
700

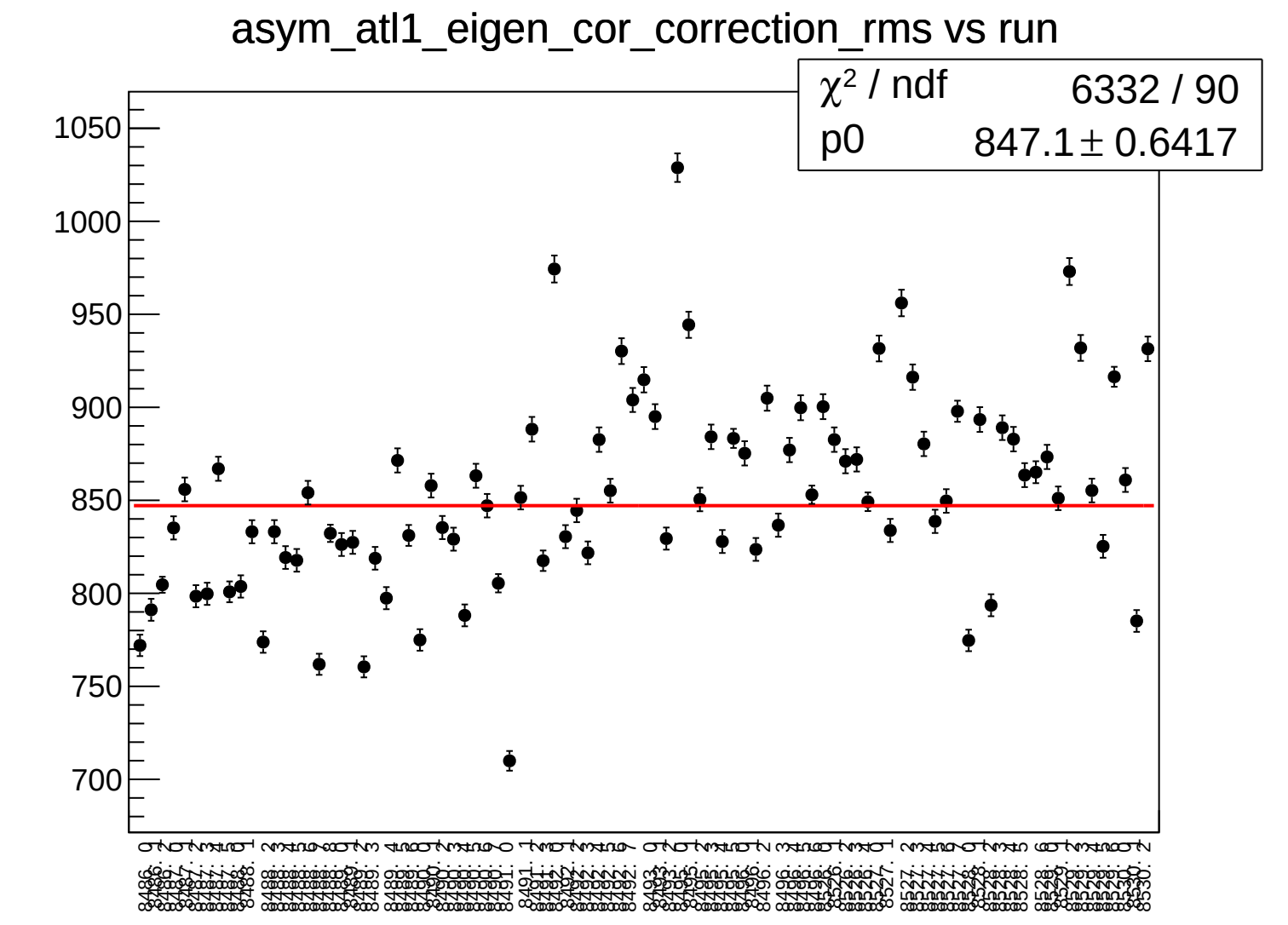

eigen_cor_asym_atl1_mean vs run
χ² / ndf 90.97 / 90
p0 −2660 ± 2463
pull
Entries 91
Mean −101.1
Std Dev 0

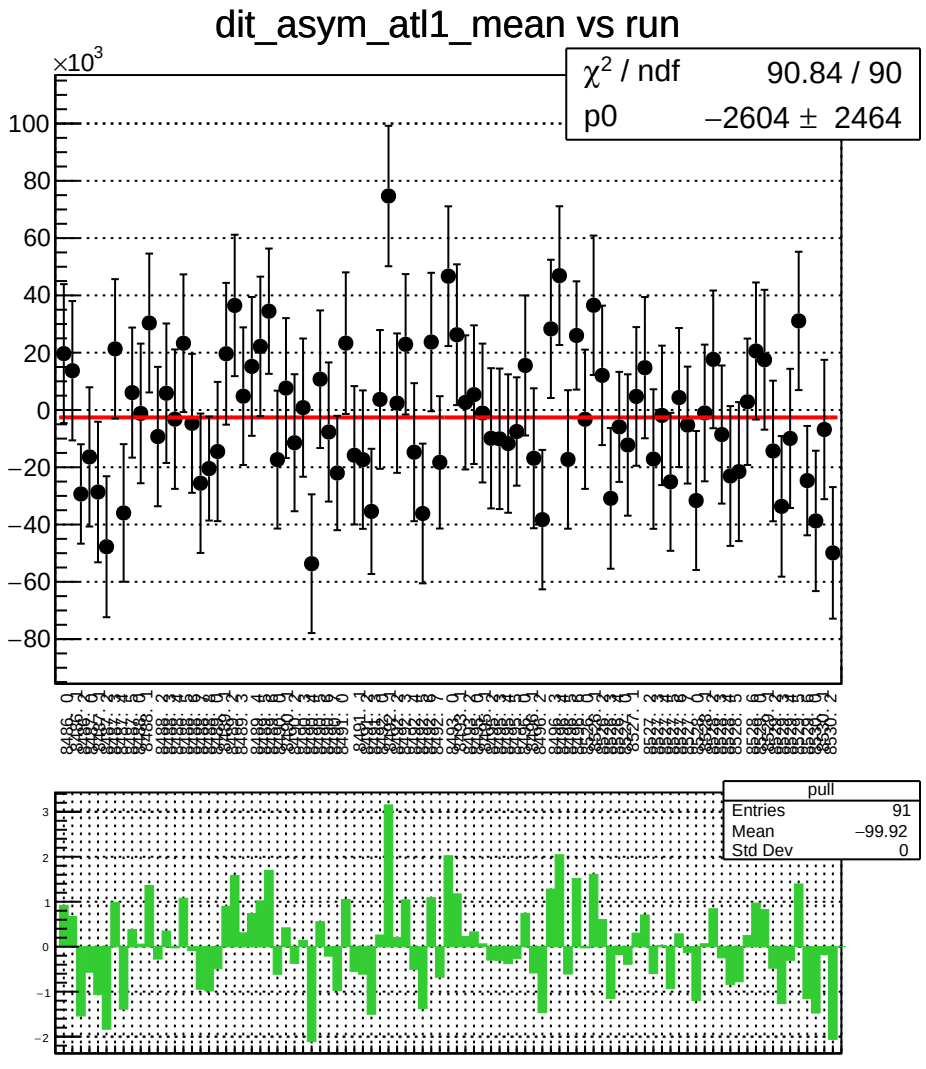

pull1D
Entries 91
Mean 0.01403
Std Dev 0.9997

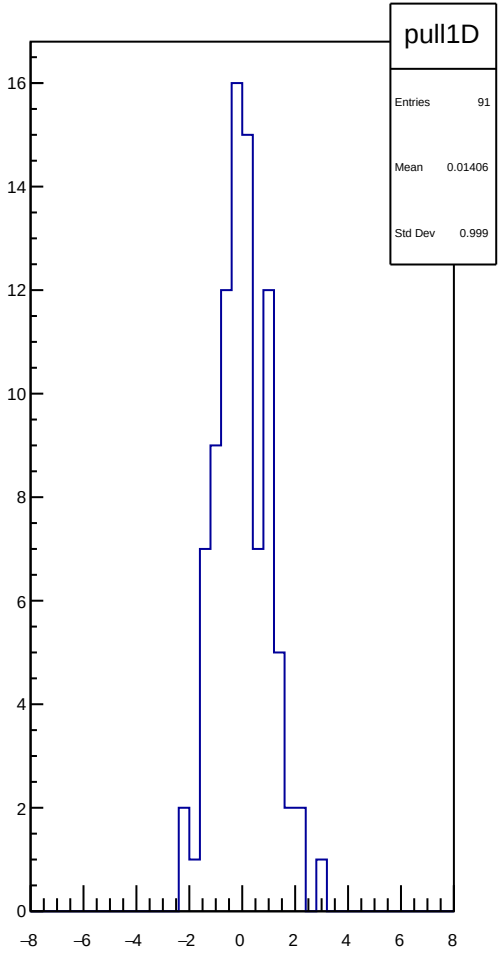

eigen_cor_asym_atl1_rms vs run
χ² / ndf 96.56 / 90
p0 2303 ± 1.742
2360
2340
2320
2300
2280
2260
2240

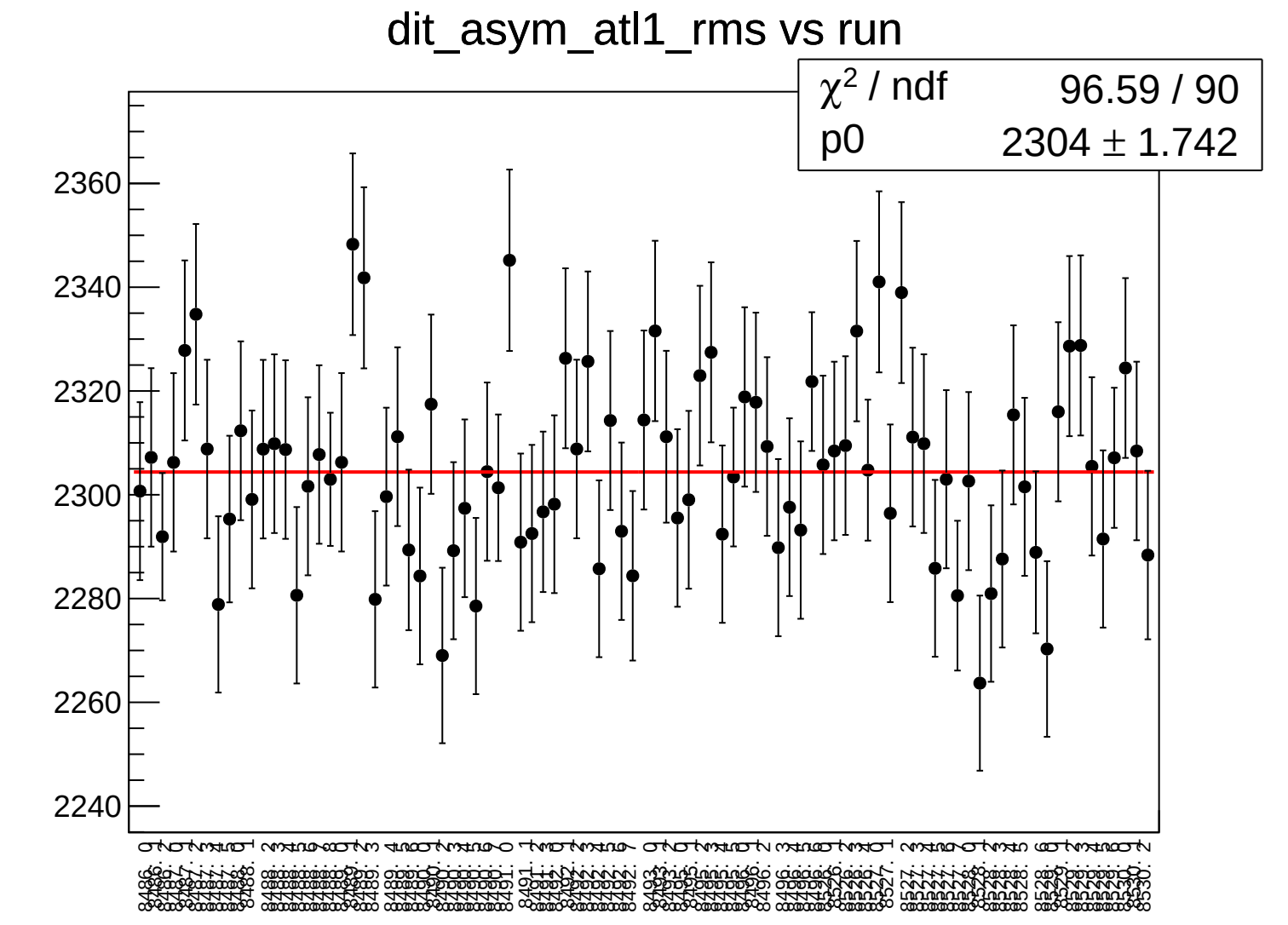

asym_atl1_eigen_cor_correction_mean vs run
χ² / ndf 87.07 / 90
p0 990.5 ± 907.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 94.79
Std Dev 0
2
1
0
−1
−2

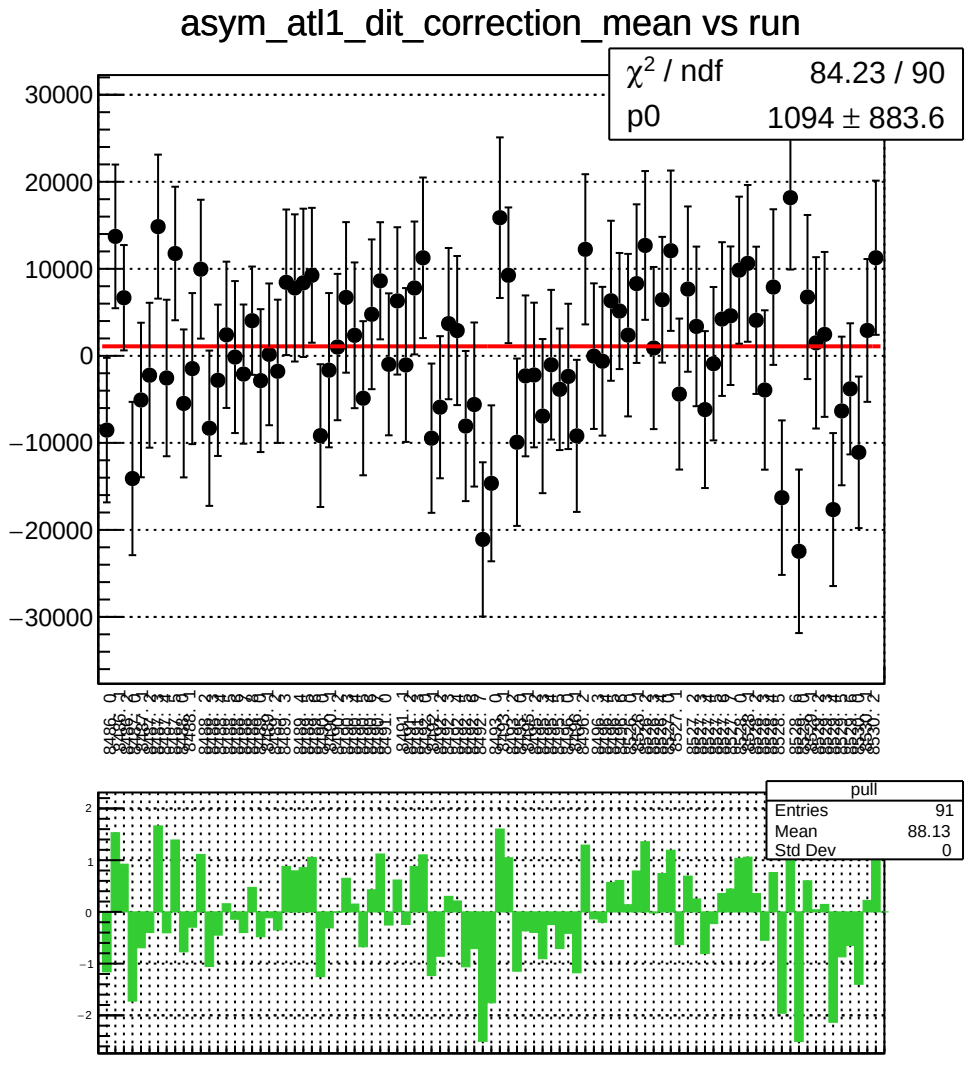

pull1D
Entries 91
Mean −0.01816
Std Dev 0.978
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

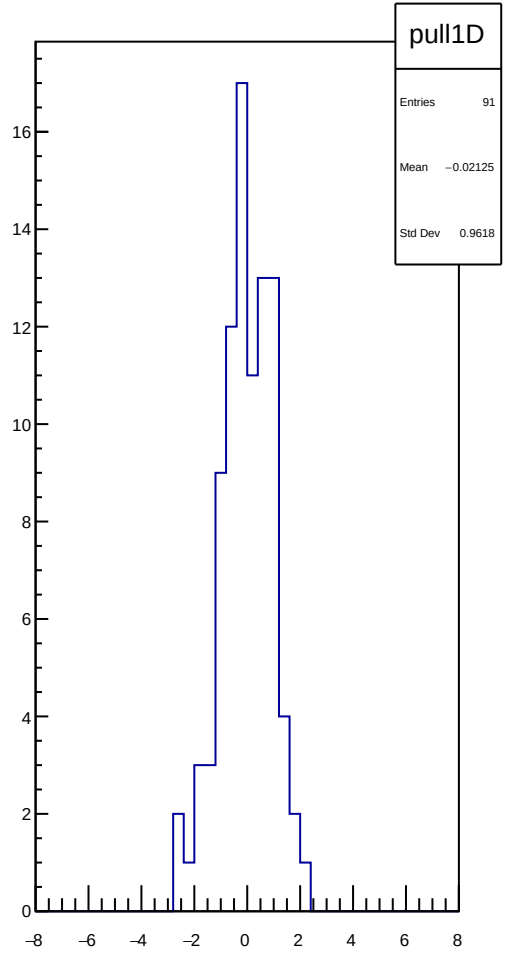

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 6332 / 90
p0 847.1 ± 0.6417
1050
1000
950
900
850
800
750
700

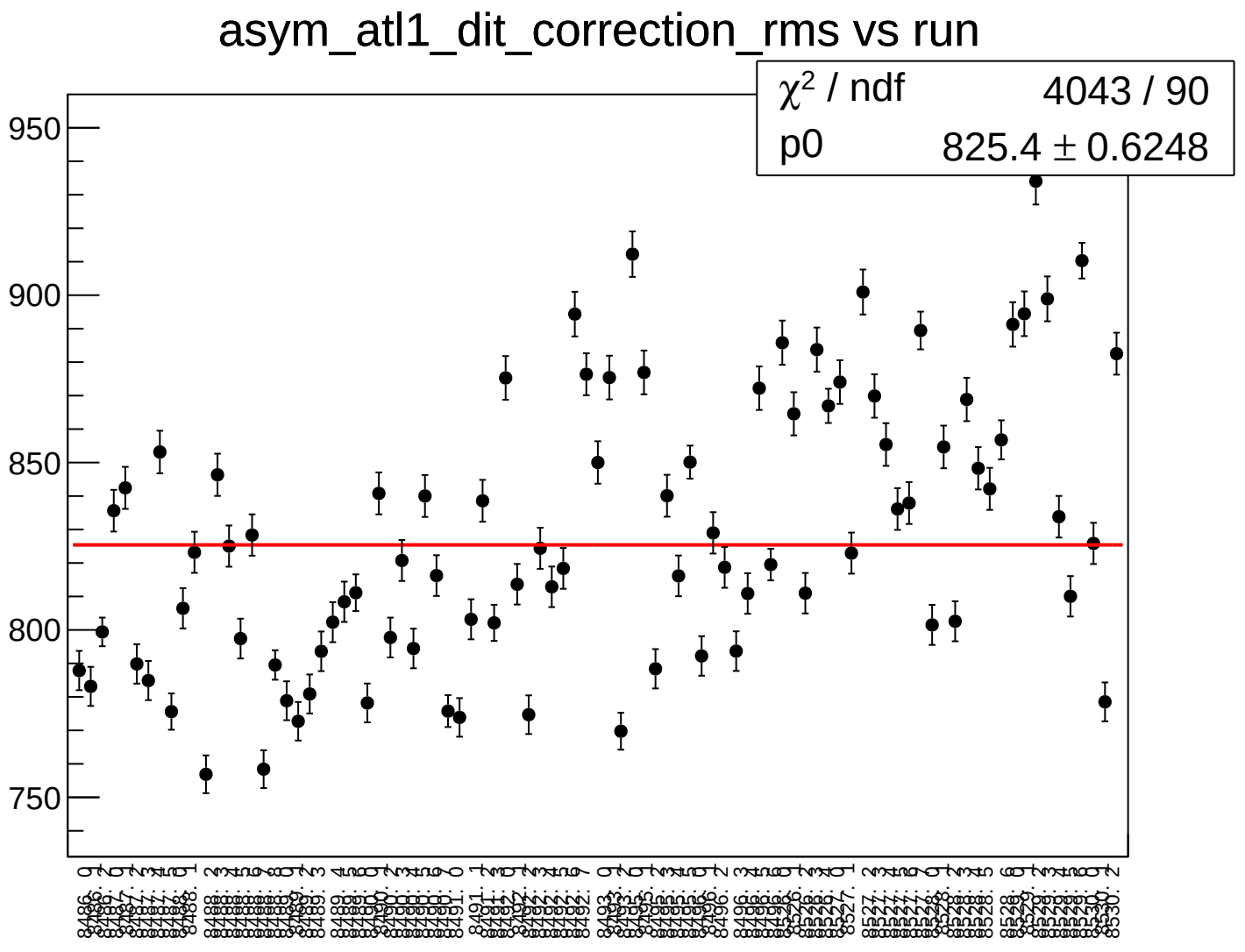

dit_asym_atl1_mean vs run
×10^3
χ^2 / ndf 90.84 / 90
p0 −2604 ± 2464
pull
Entries 91
Mean −99.92
Std Dev 0

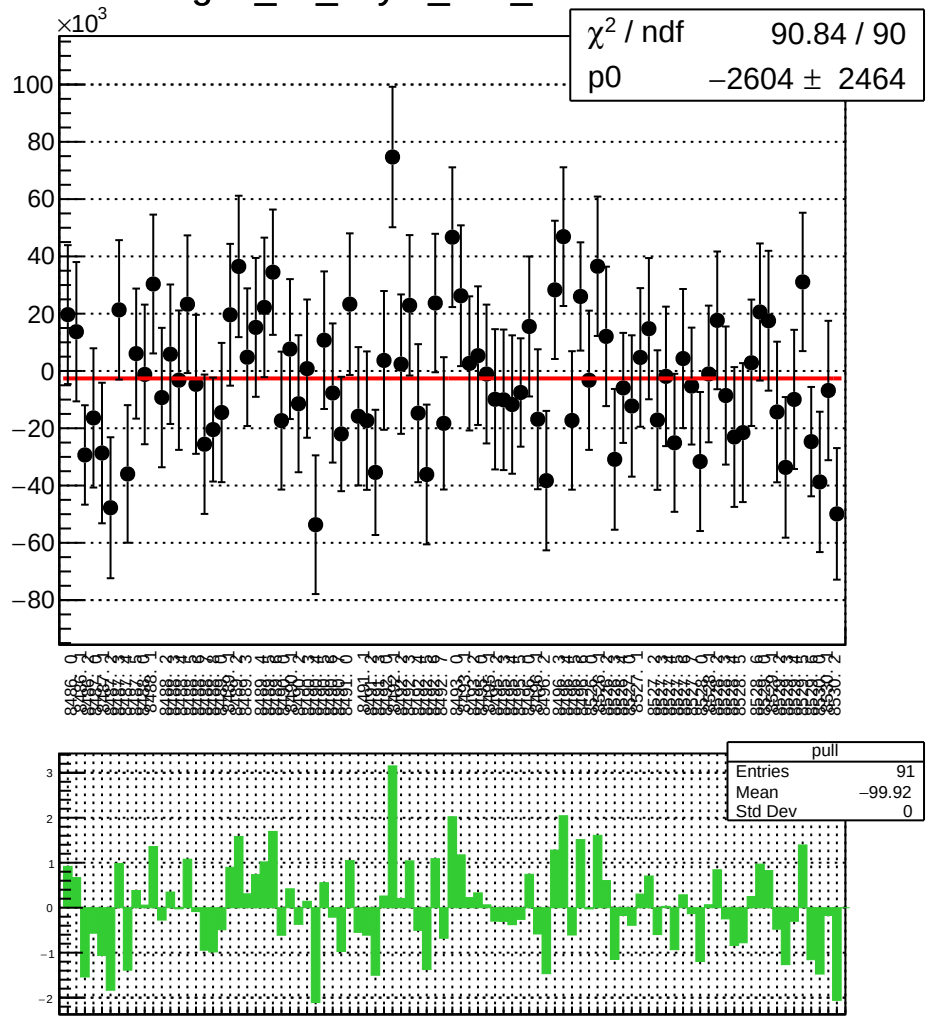

pull1D
Entries 91
Mean 0.01406
Std Dev 0.999

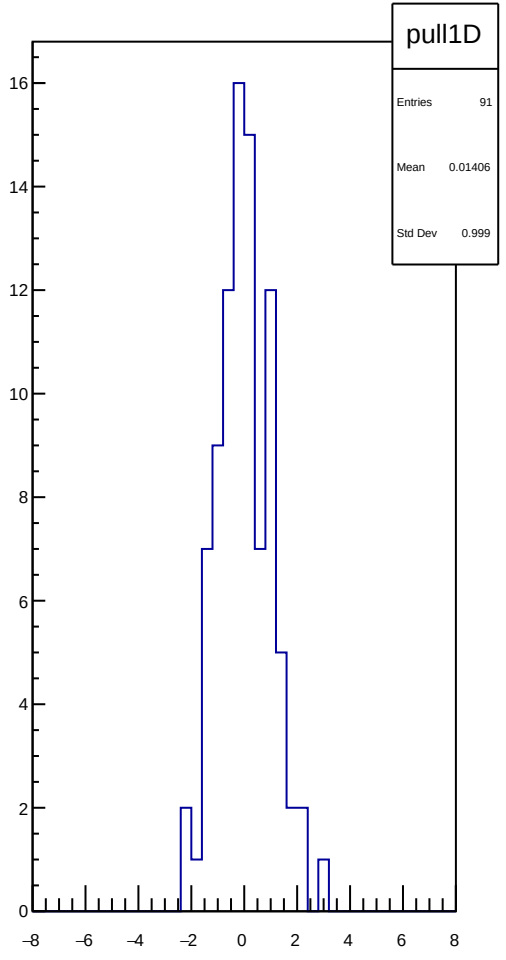

dit_asym_atl1_rms vs run
χ^2 / ndf 96.59 / 90
p0 2304 ± 1.742
2360
2340
2320
2300
2280
2260
2240

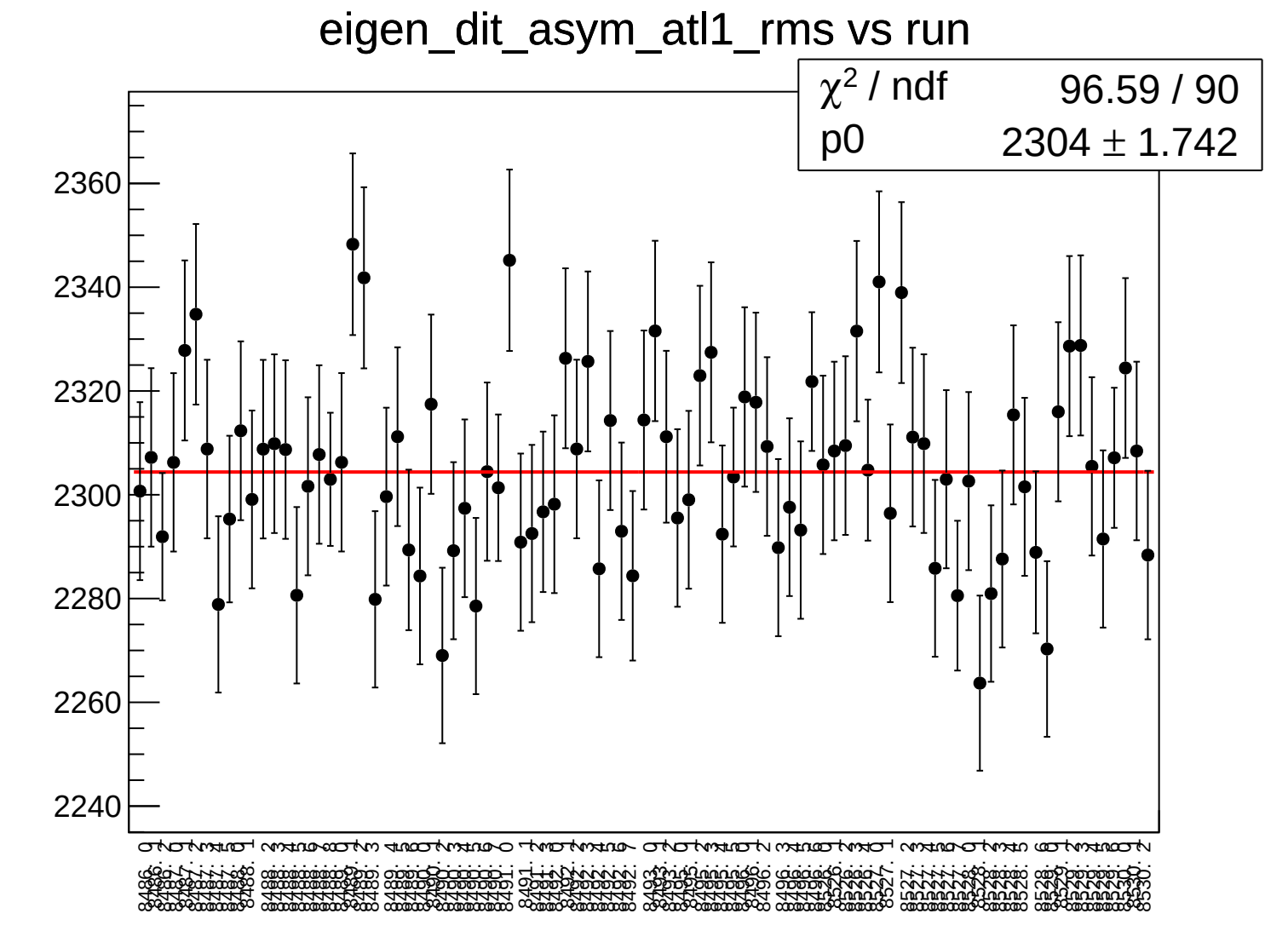

asym_atl1_dit_correction_mean vs run
χ² / ndf 84.23 / 90
p0 1094 ± 883.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 88.13
Std Dev 0
2
1
0
−1
−2

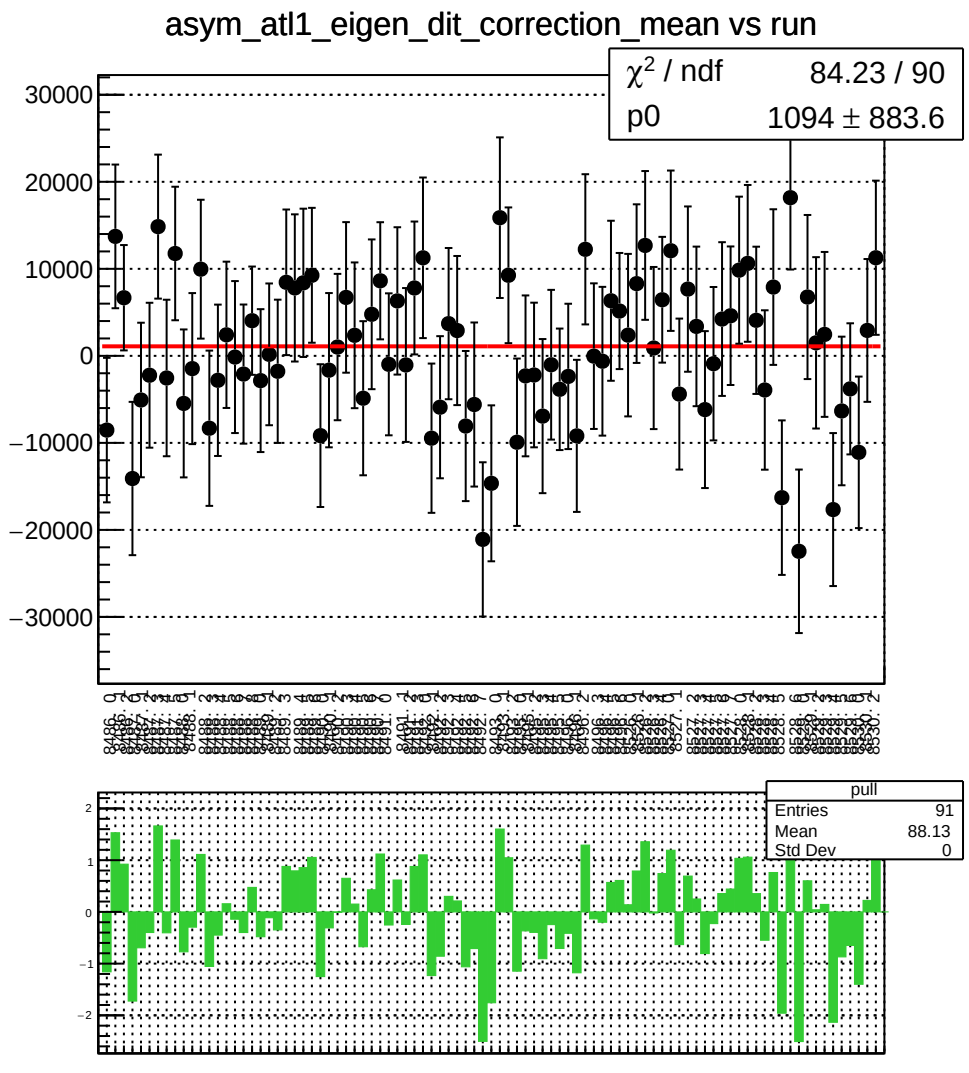

pull1D
Entries 91
Mean −0.02125
Std Dev 0.9618
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

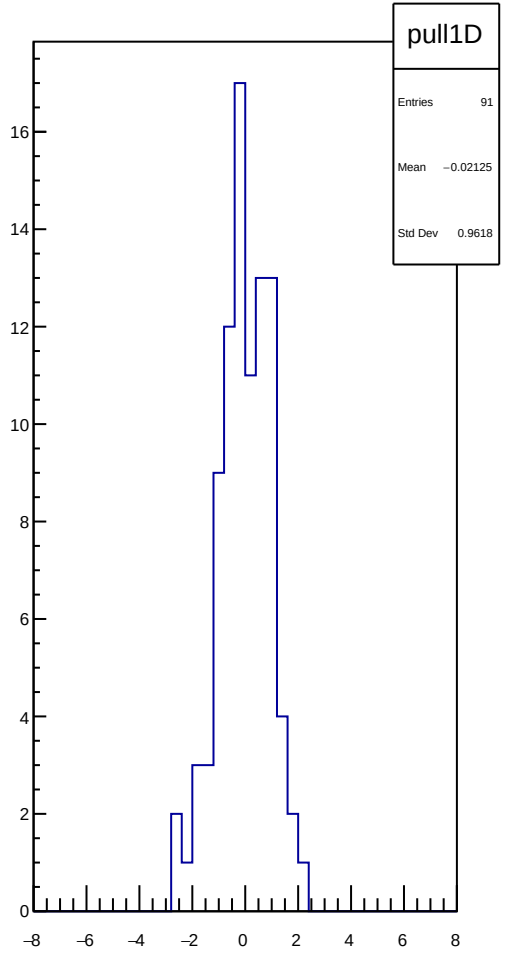

asym_atl1_dit_correction_rms vs run
χ² / ndf 4043 / 90
p0 825.4 ± 0.6248
950
900
850
800
750

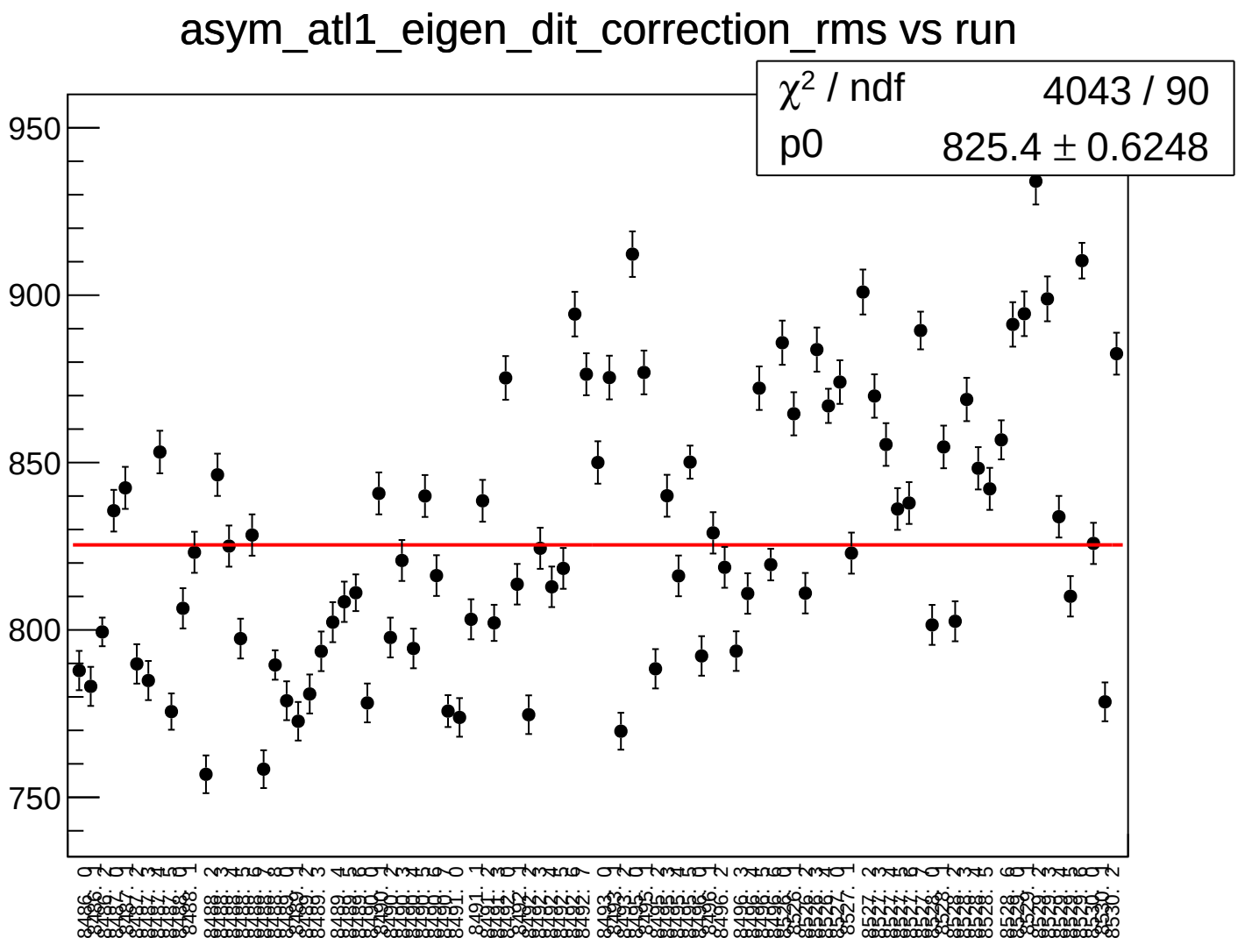

eigen_dit_asym_atl1_mean vs run
×10^3
χ² / ndf 90.84 / 90
p0 −2604 ± 2464
100
80
60
40
20
0
−20
−40
−60
−80
pull
Entries 91
Mean −99.92
Std Dev 0
3
2
1
0
−1
−2

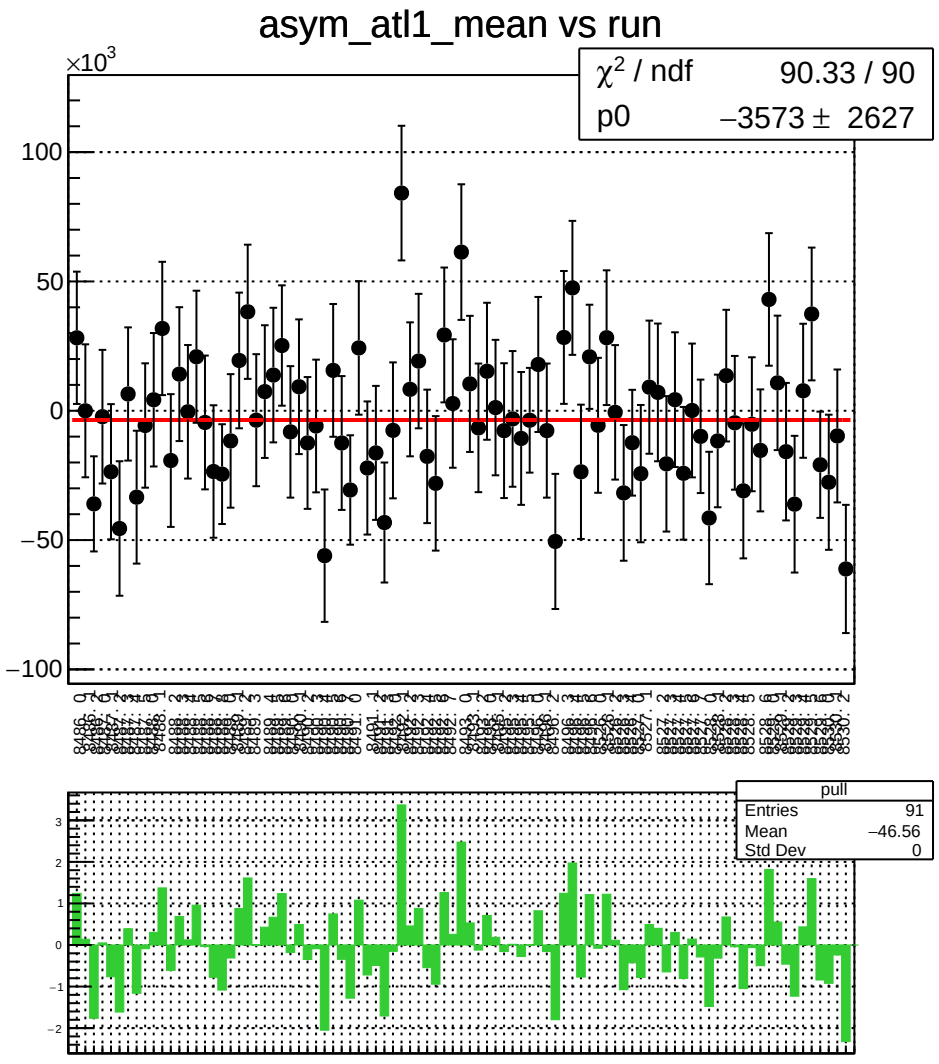

pull1D
Entries 91
Mean 0.01406
Std Dev 0.999
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

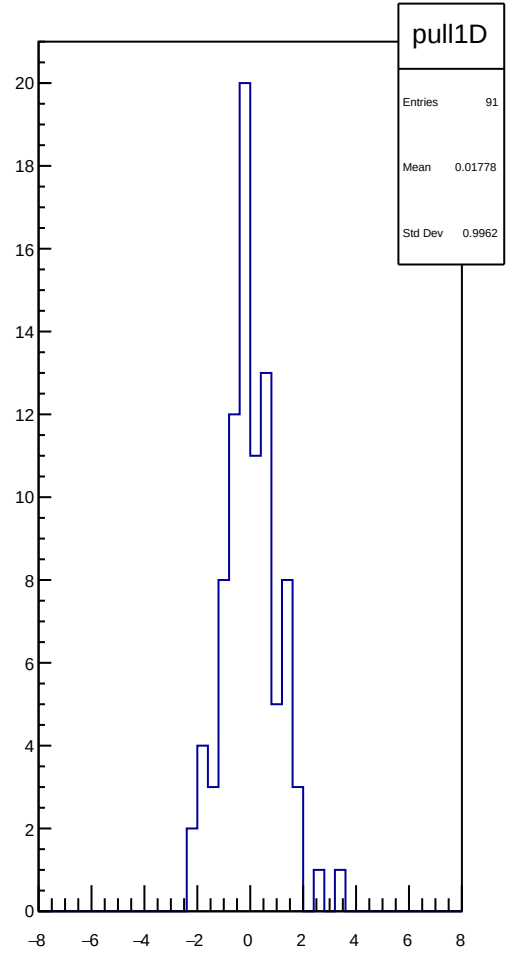

eigen_dit_asym_atl1_rms vs run
χ^2 / ndf 96.59 / 90
p0 2304 ± 1.742
2360
2340
2320
2300
2280
2260
2240

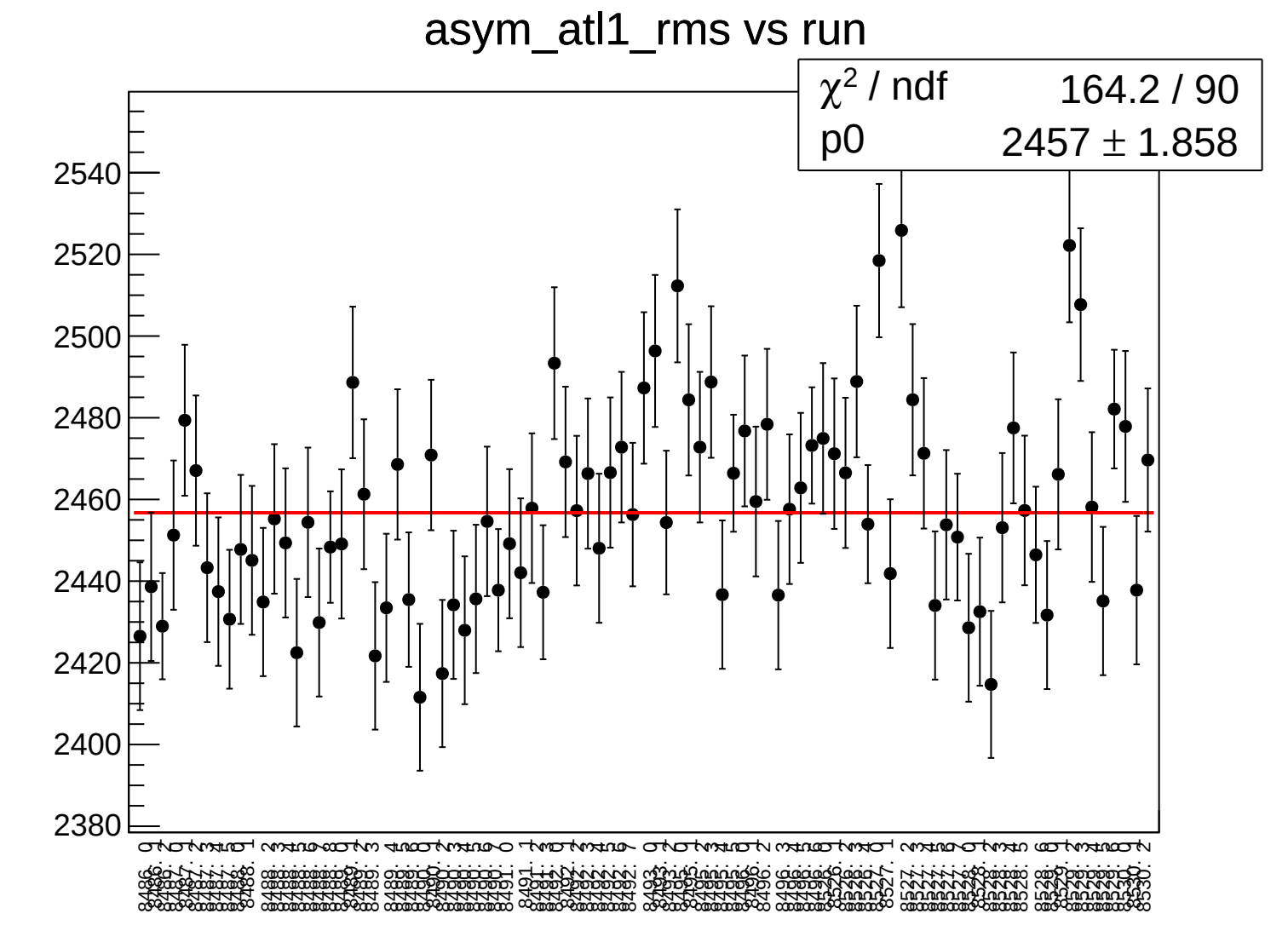

asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 84.23 / 90
p0 1094 ± 883.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 88.13
Std Dev 0
2
1
0
−1
−2

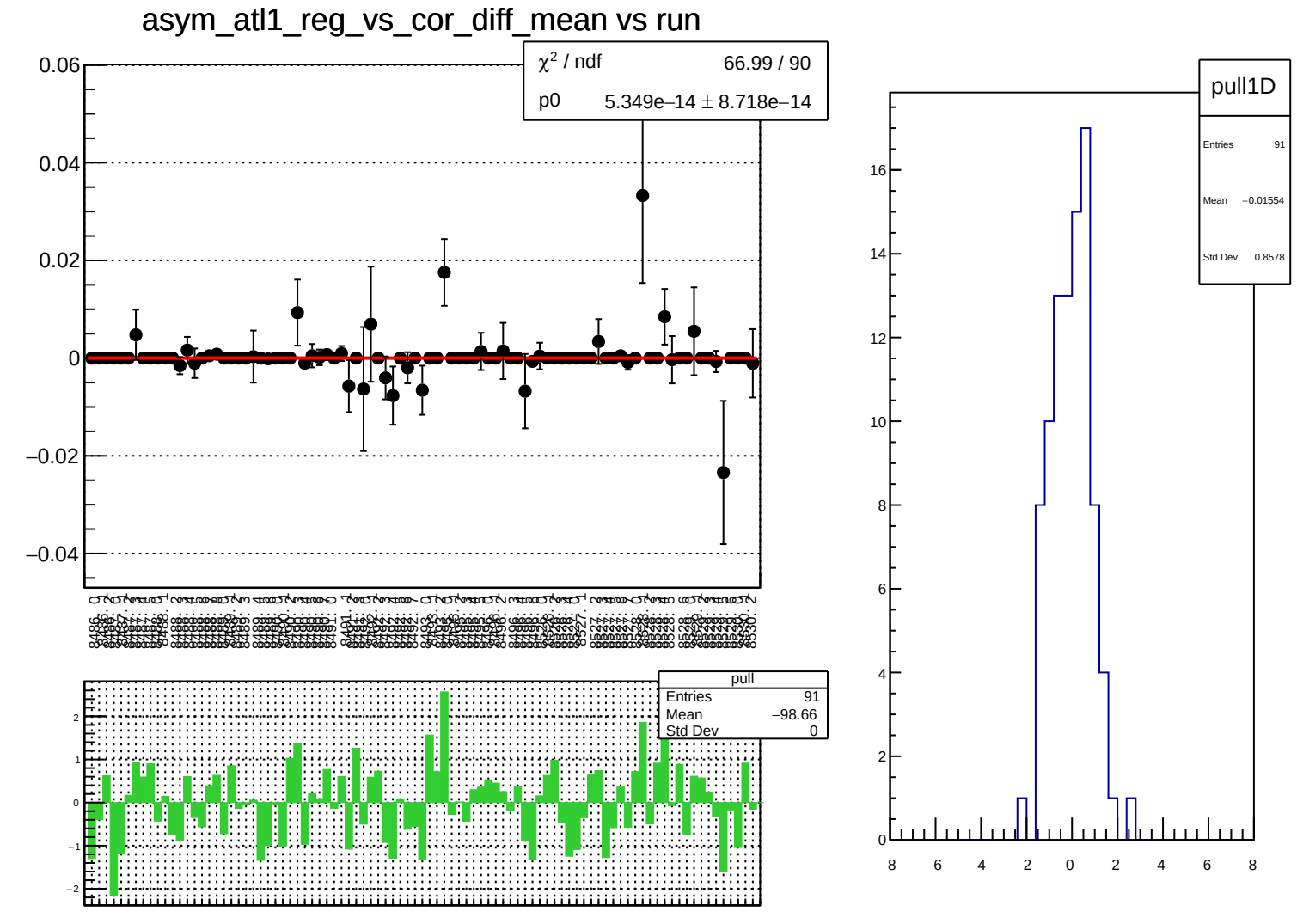

pull1D
Entries 91
Mean −0.02125
Std Dev 0.9618
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

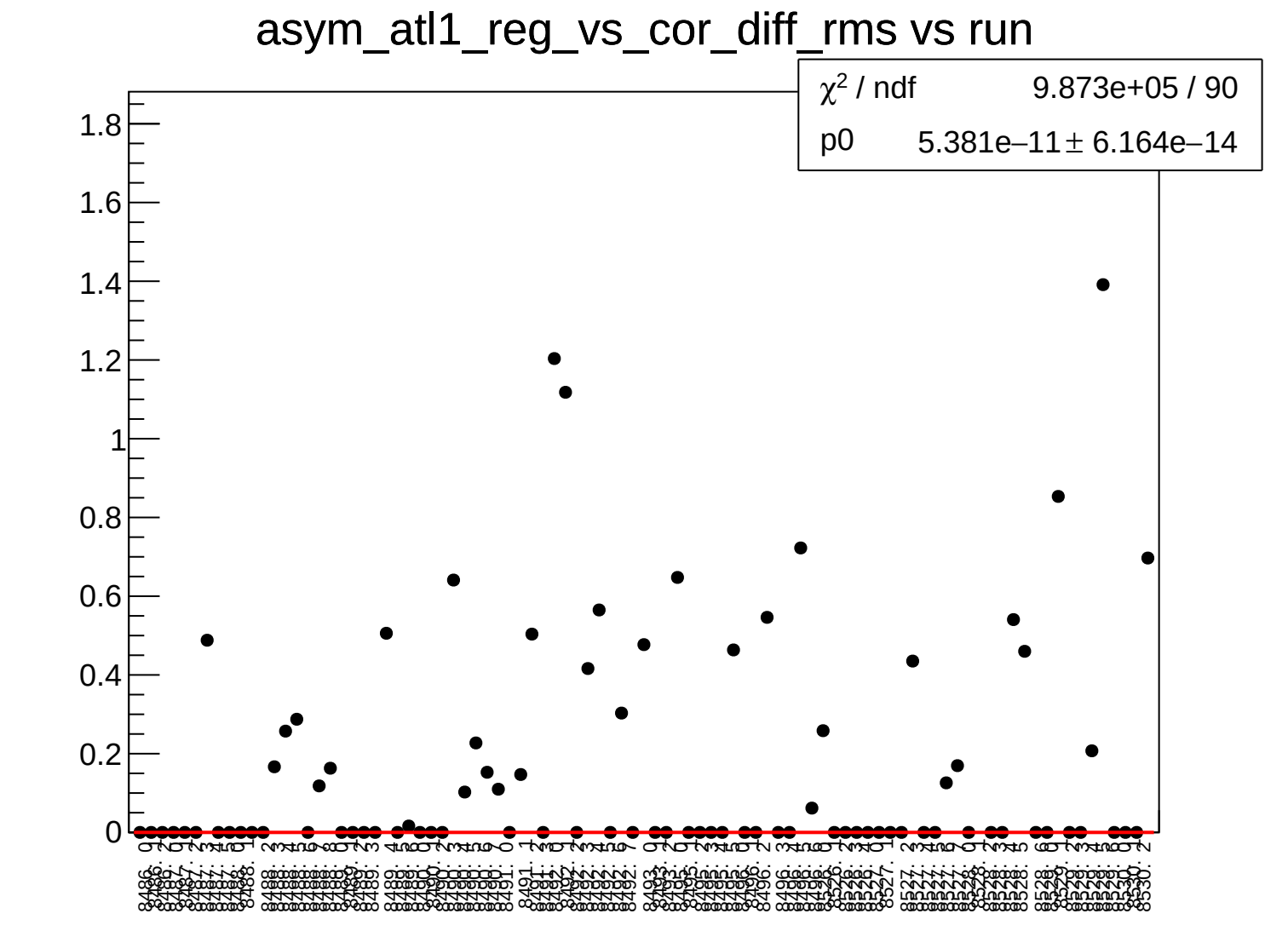

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 4043 / 90
p0 825.4 ± 0.6248
950
900
850
800
750

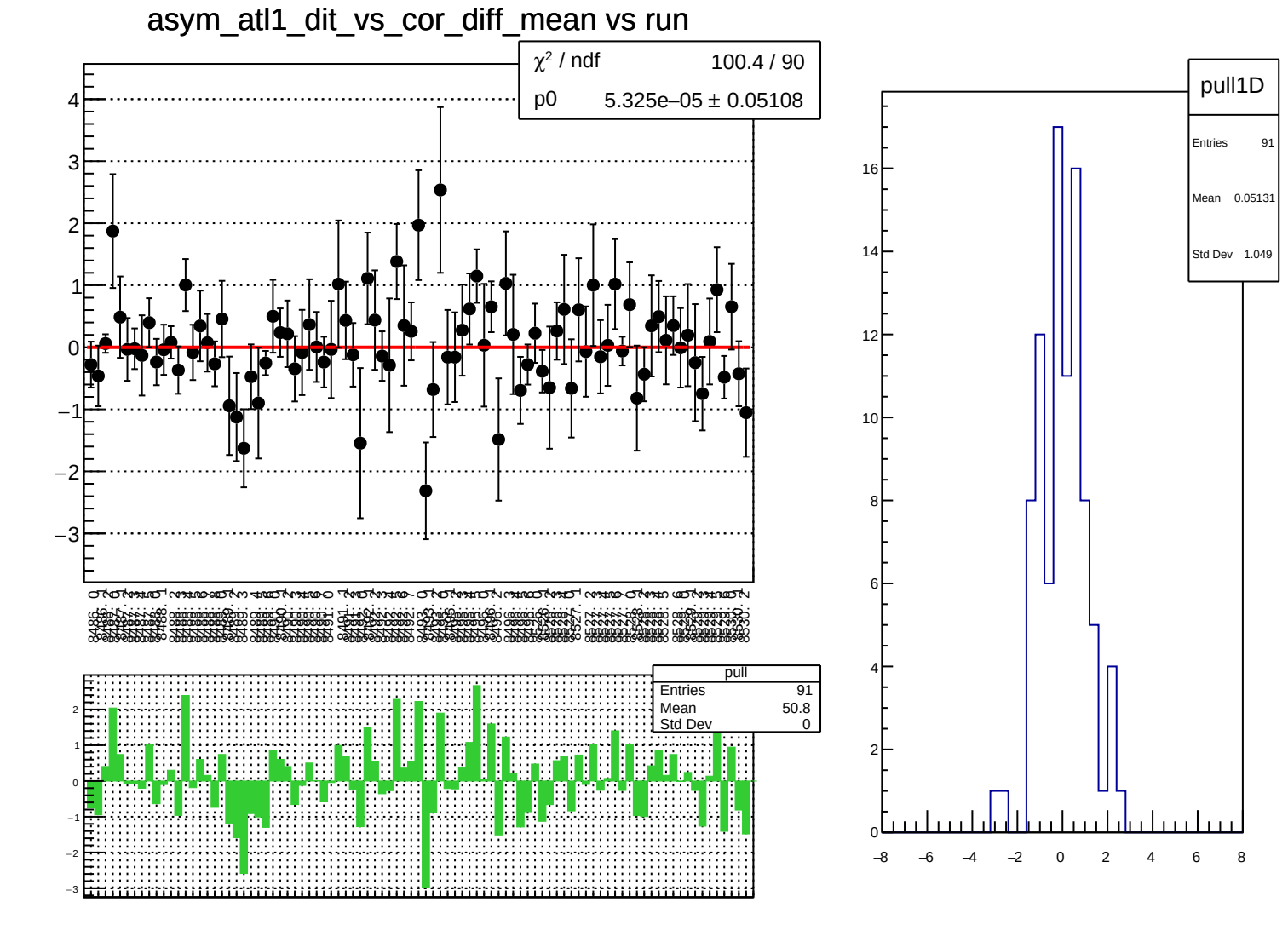

asym_atl1_mean vs run
×10^3
χ^2 / ndf 90.33 / 90
p0 −3573 ± 2627
100
50
0
−50
−100
pull
Entries 91
Mean −46.56
Std Dev 0
3
2
1
0
−1
−2

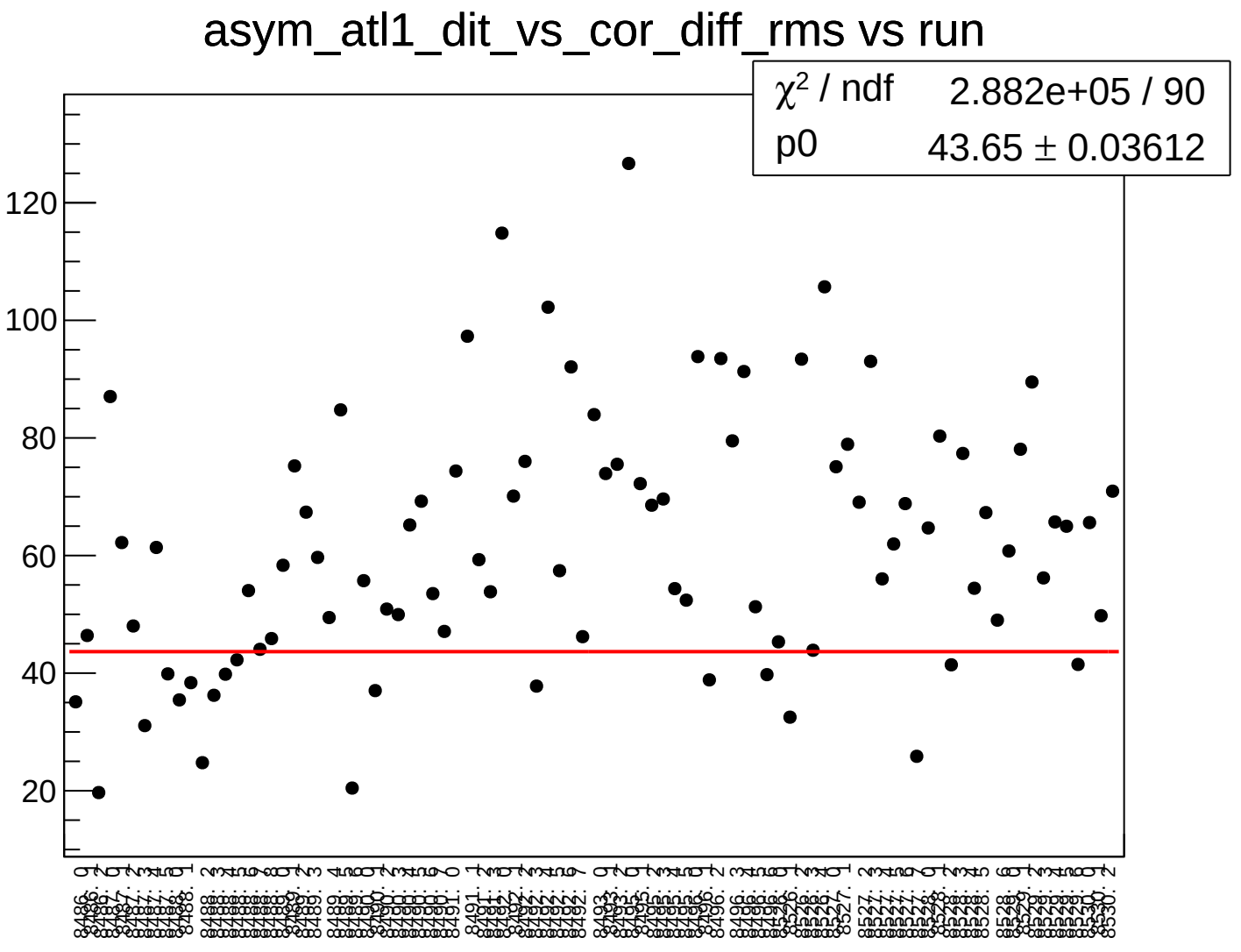

pull1D
Entries 91
Mean 0.01778
Std Dev 0.9962
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

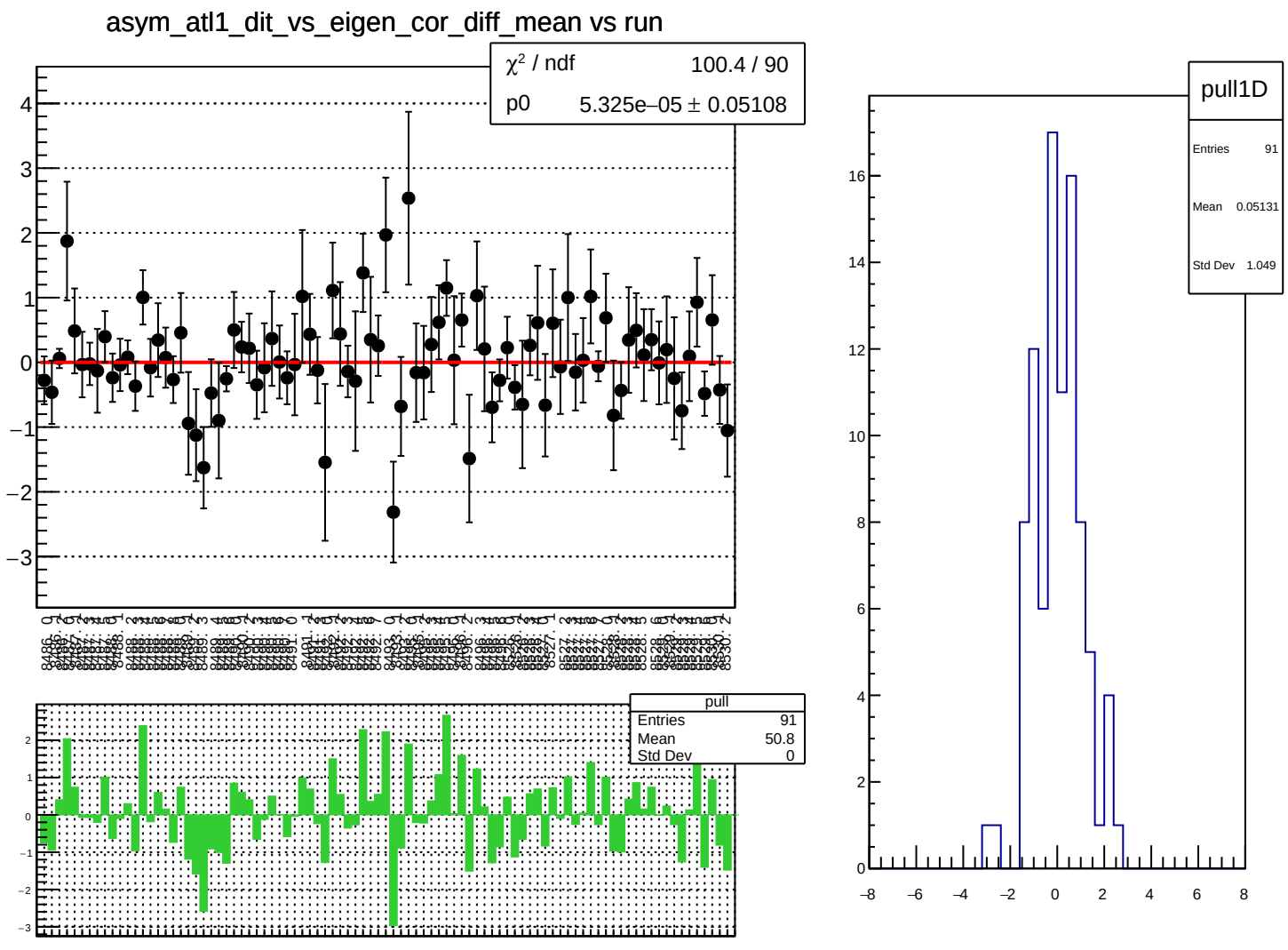

asym_atl1_rms vs run
χ² / ndf 164.2 / 90
p0 2457 ± 1.858
2540
2520
2500
2480
2460
2440
2420
2400
2380

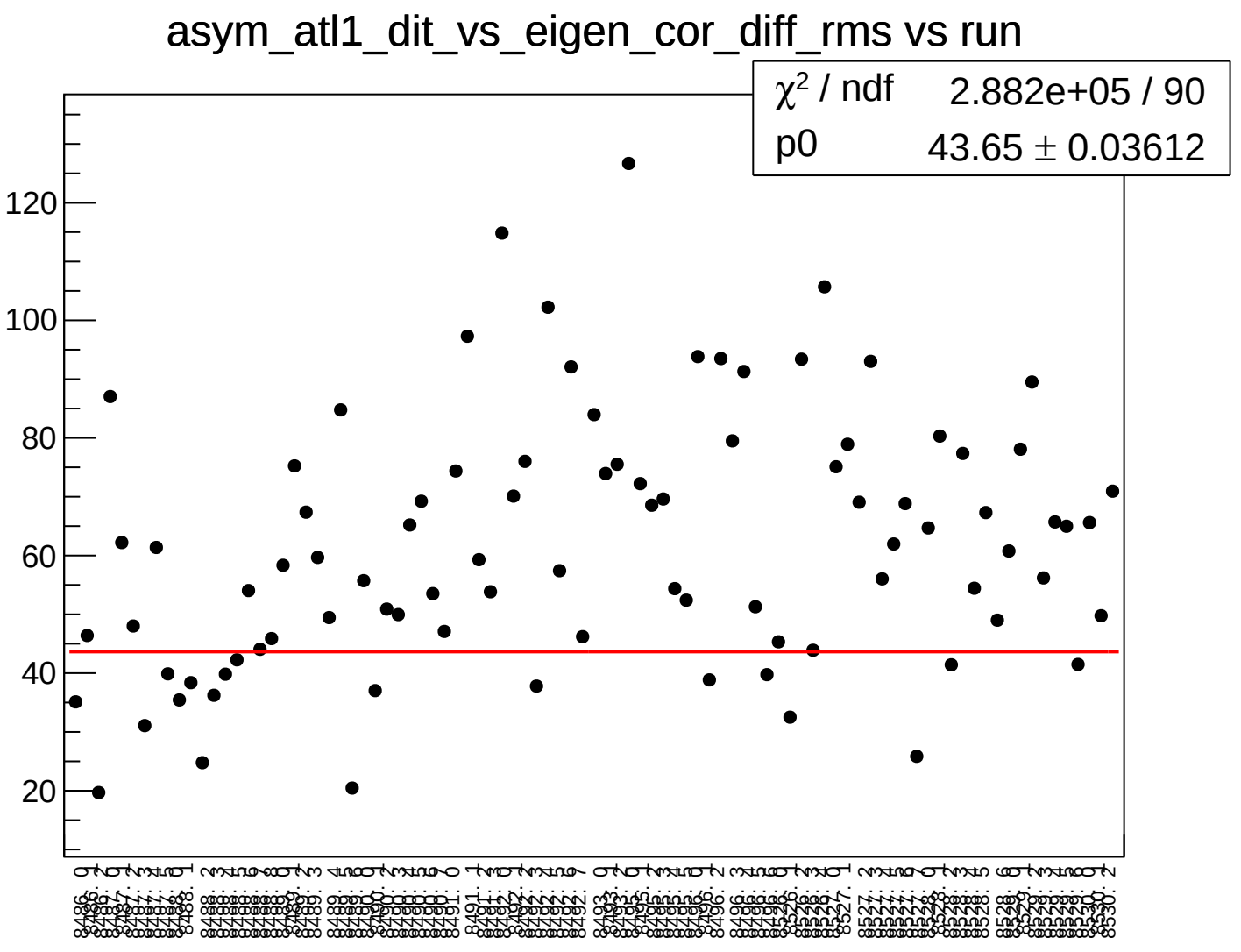

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 66.99 / 90
p0 5.349e−14 ± 8.718e−14
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 91
Mean −98.66
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.01554
Std Dev 0.8578
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

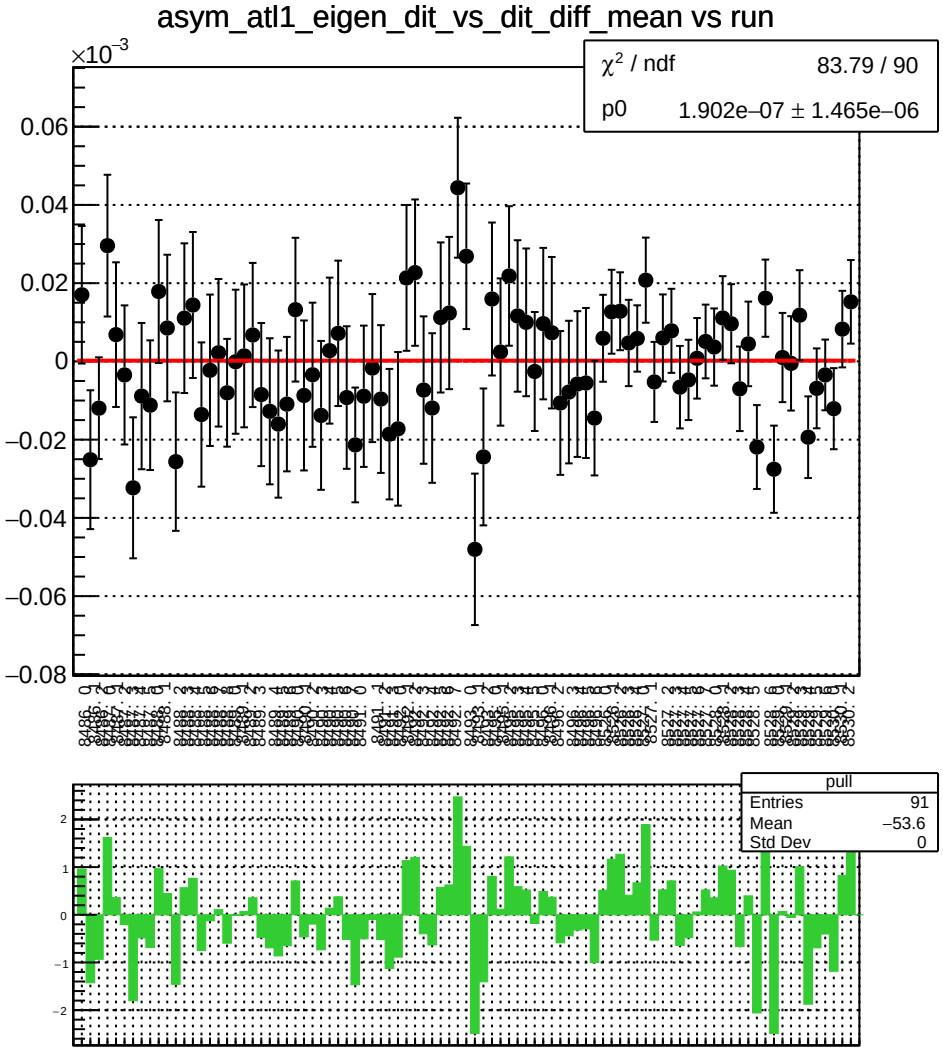

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 9.873e+05 / 90
p0 5.381e−11 ± 6.164e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

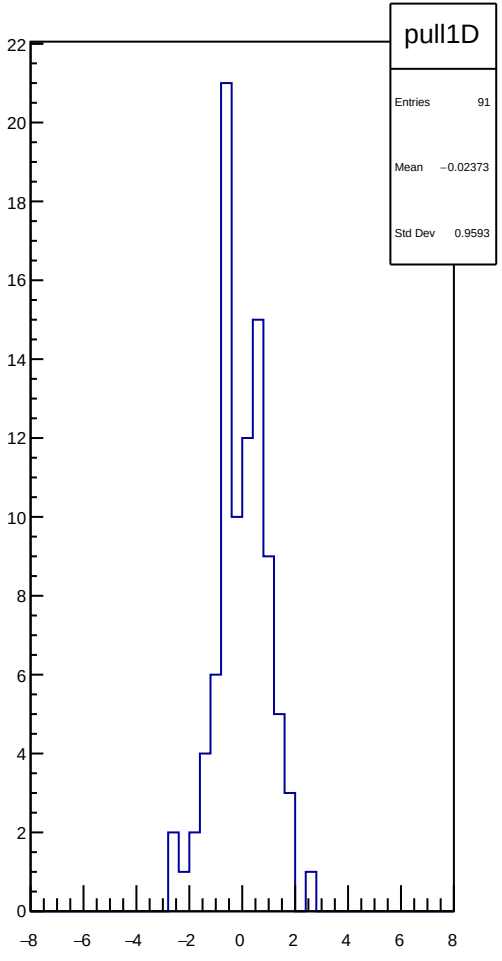

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 100.4 / 90
p0 5.325e−05 ± 0.05108
pull
Entries 91
Mean 50.8
Std Dev 0
pull1D
Entries 91
Mean 0.05131
Std Dev 1.049

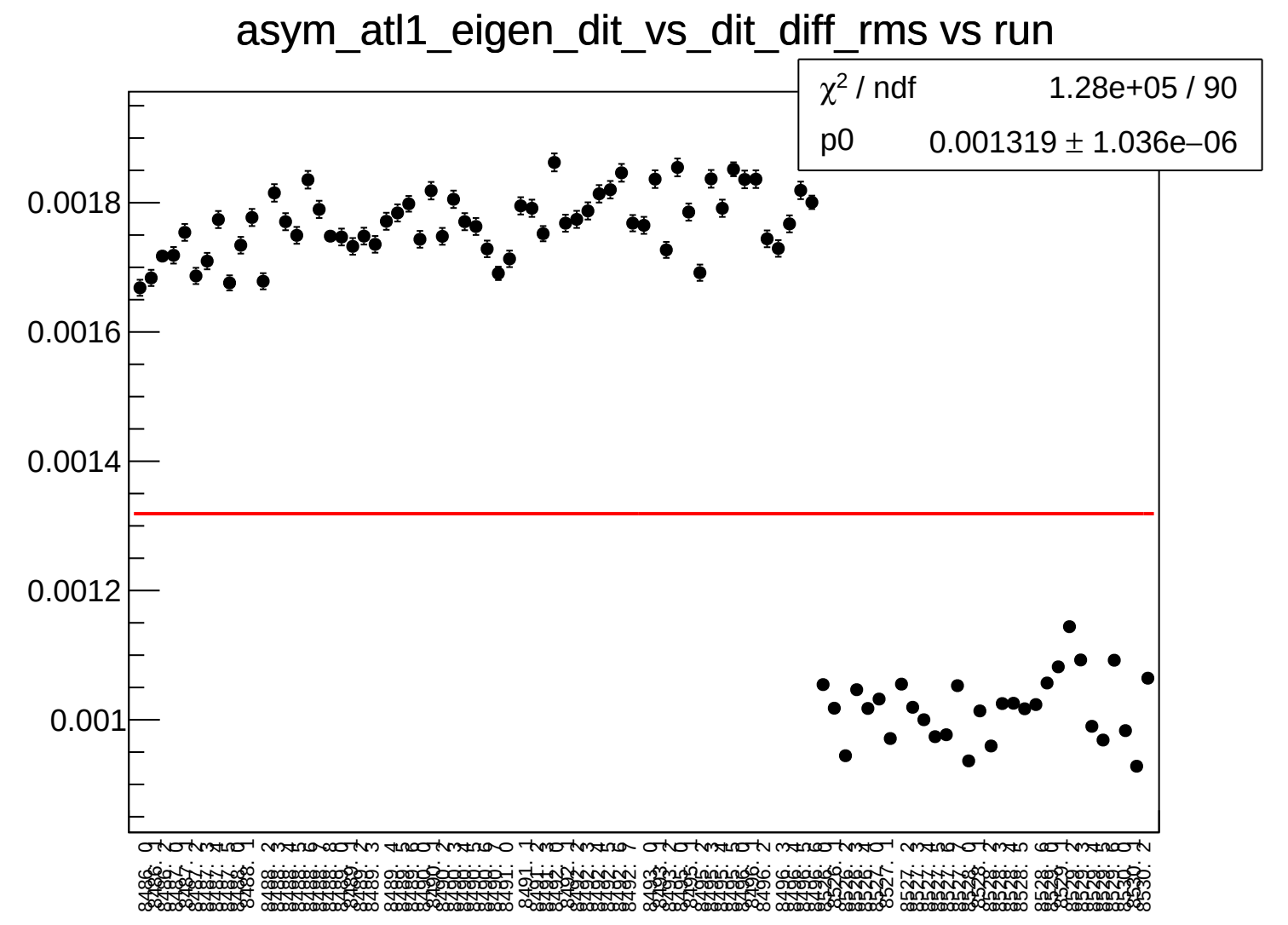

asym_atl1_dit_vs_cor_diff_rms vs run
χ² / ndf 2.882e+05 / 90
p0 43.65 ± 0.03612
120
100
80
60
40
20

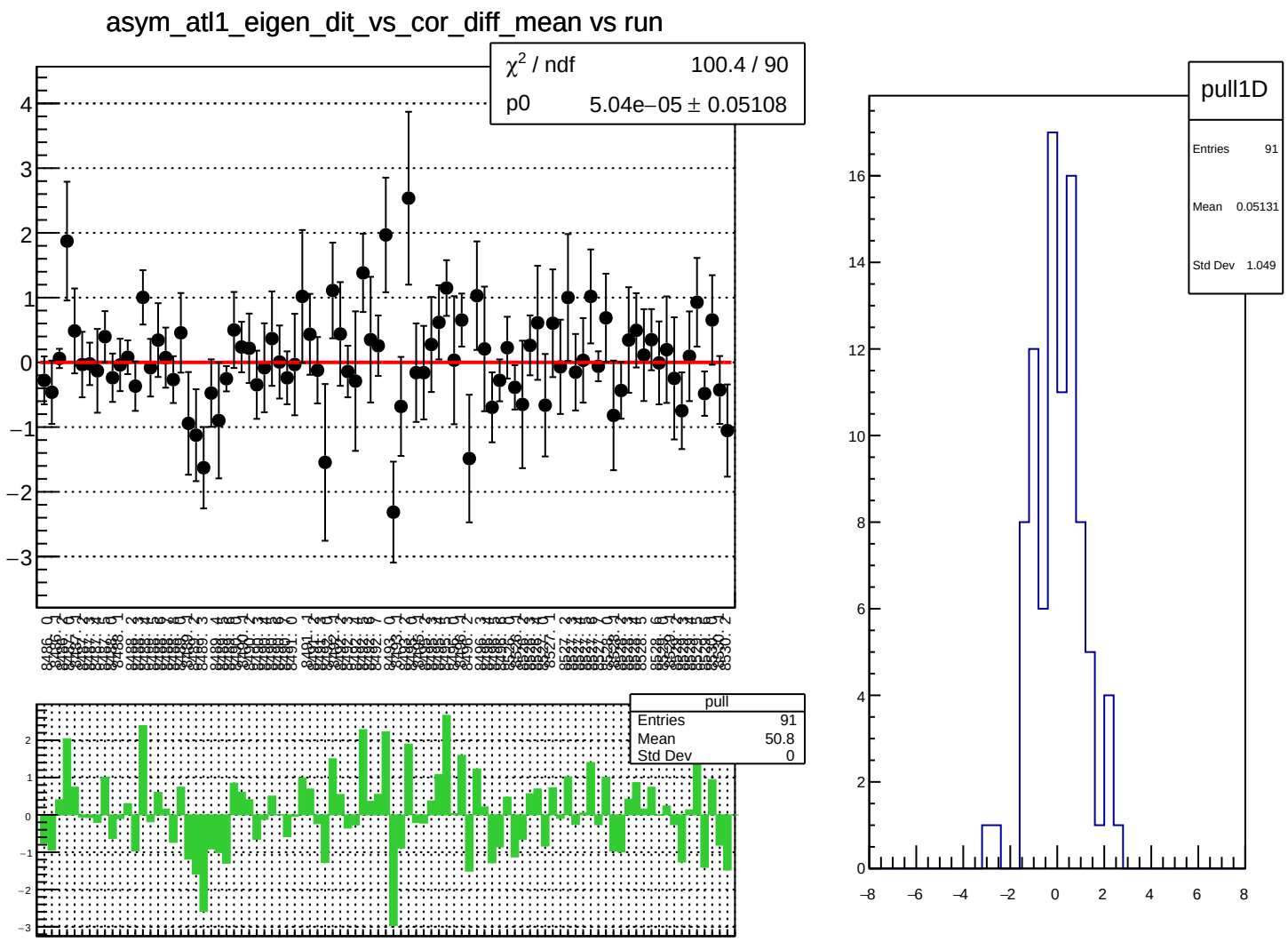

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.4 / 90
p0 5.325e−05 ± 0.05108
pull
Entries 91
Mean 50.8
Std Dev 0
pull1D
Entries 91
Mean 0.05131
Std Dev 1.049

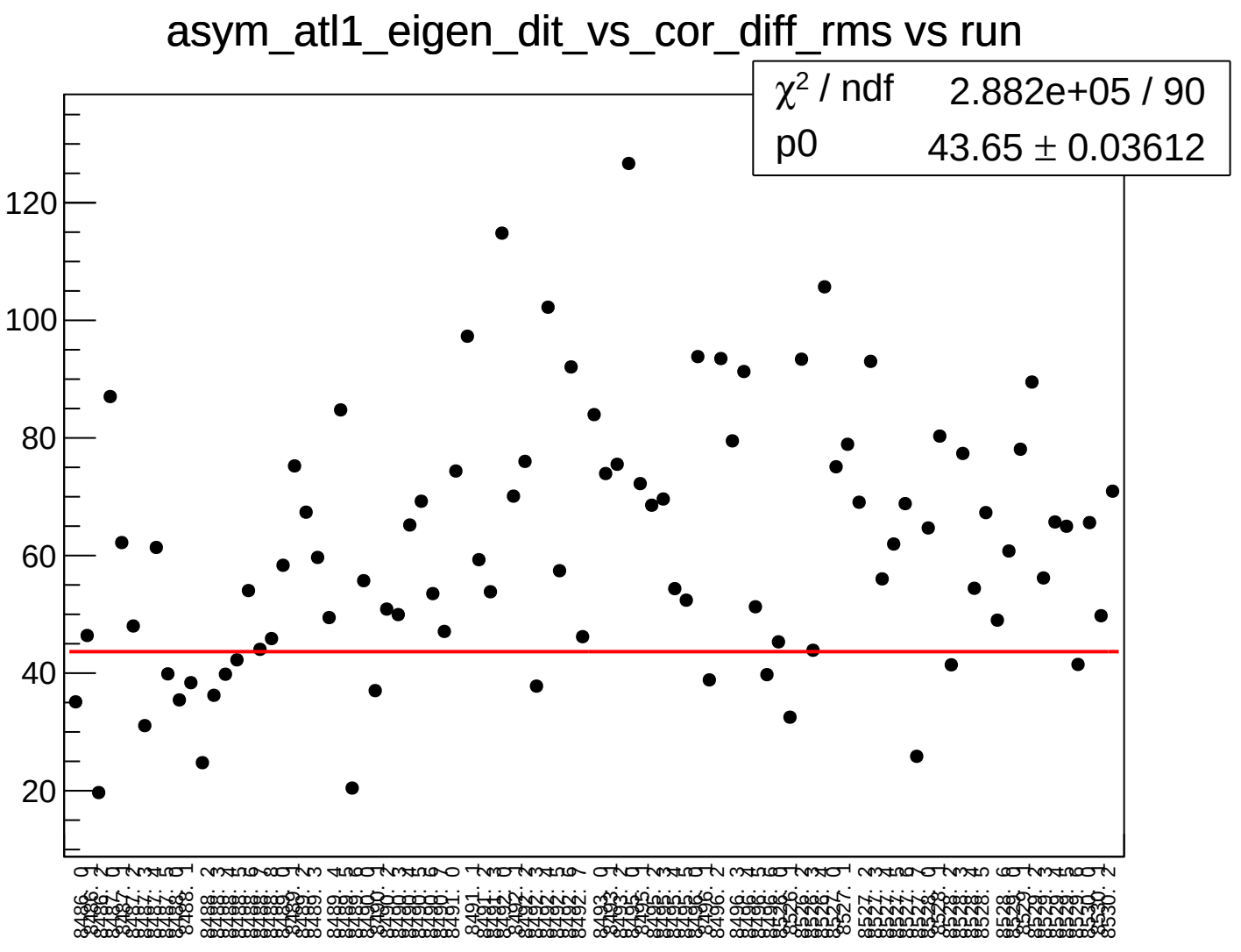

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.882e+05 / 90
p0 43.65 ± 0.03612
120
100
80
60
40
20

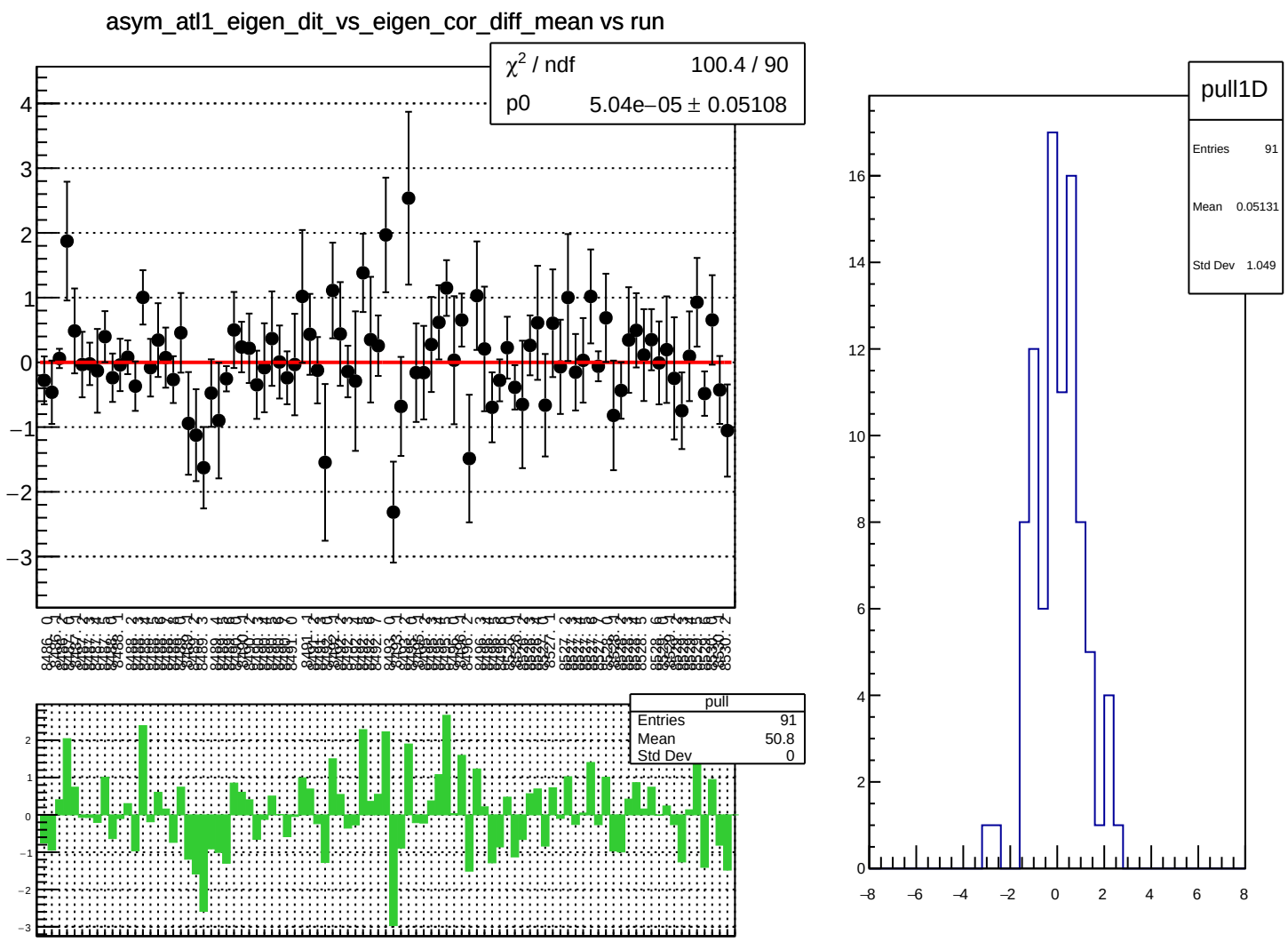

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.79 / 90
p0 1.902e−07 ± 1.465e−06
pull
Entries 91
Mean −53.6
Std Dev 0

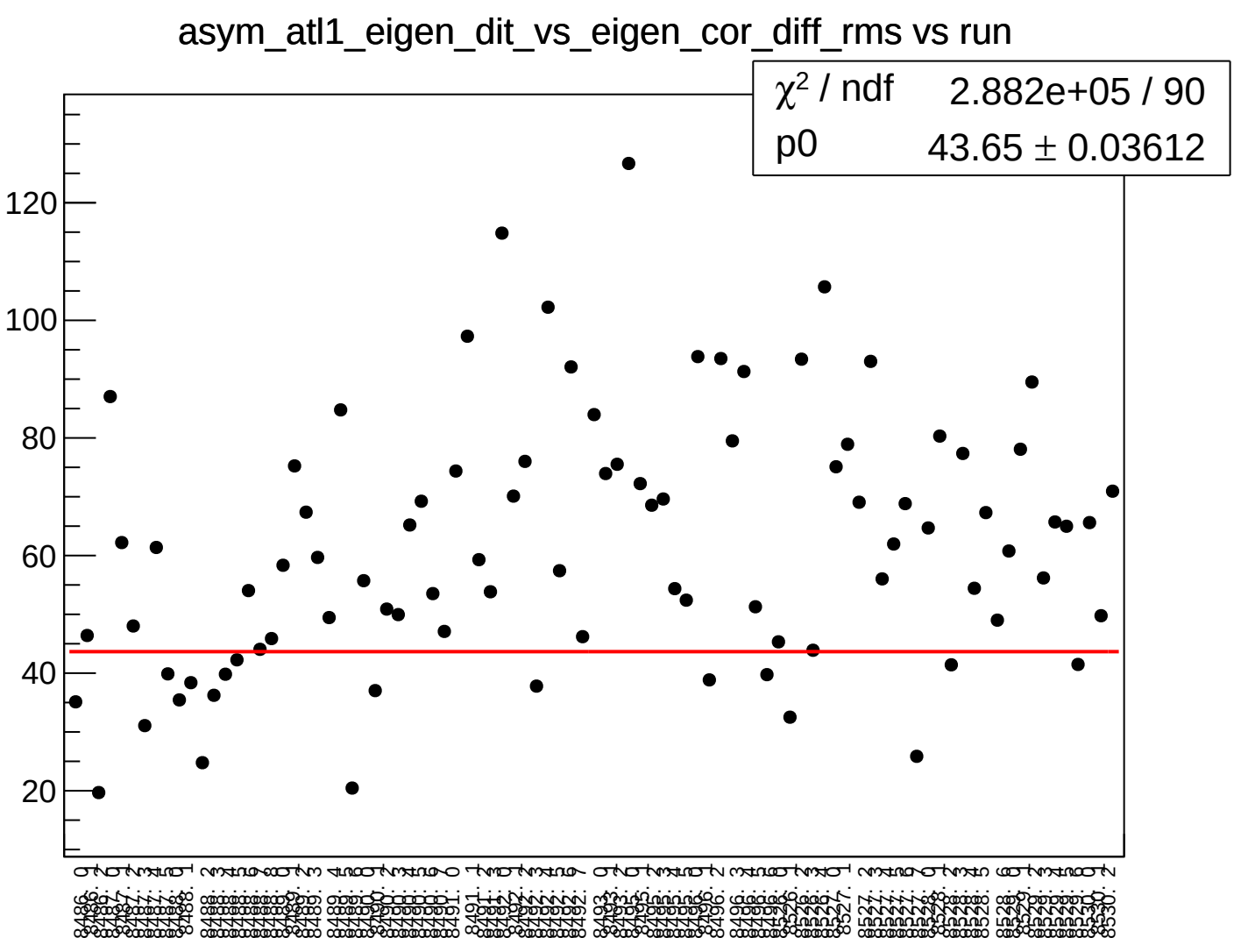

pull1D
Entries 91
Mean −0.02373
Std Dev 0.9593

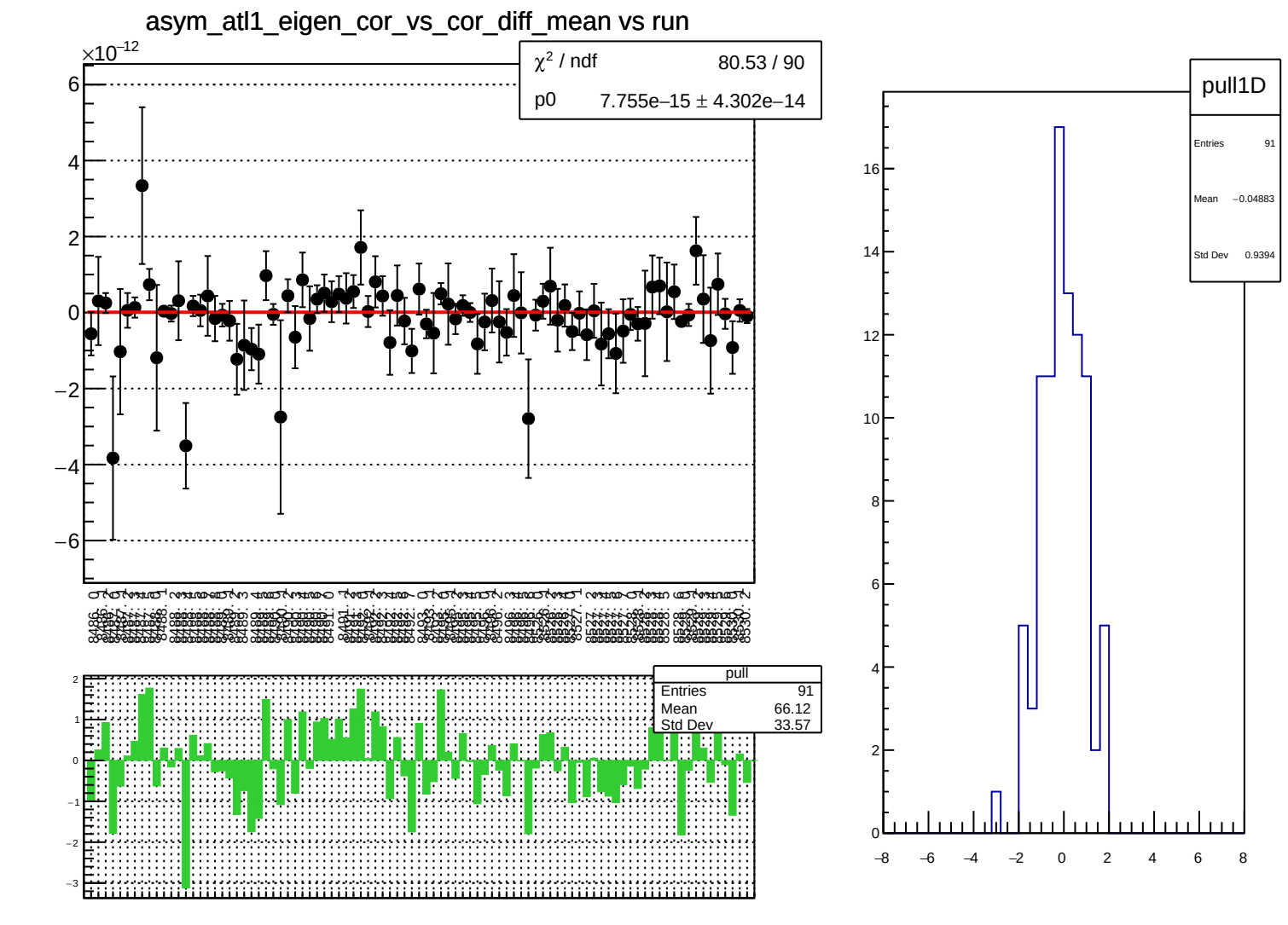

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.28e+05 / 90
p0 0.001319 ± 1.036e−06
0.0018
0.0016
0.0014
0.0012
0.001

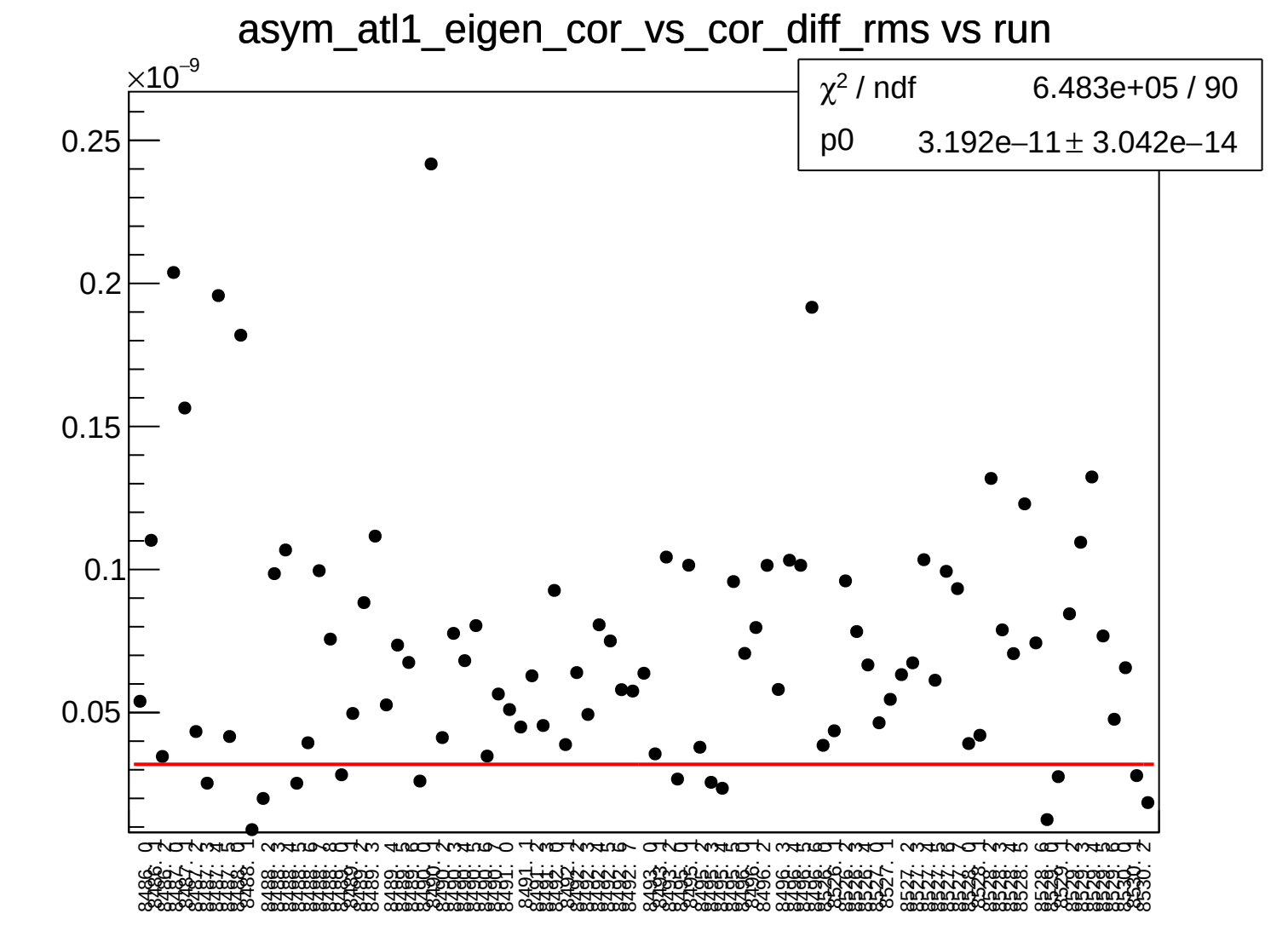

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.4 / 90
p0 5.04e−05 ± 0.05108
pull
Entries 91
Mean 50.8
Std Dev 0
pull1D
Entries 91
Mean 0.05131
Std Dev 1.049

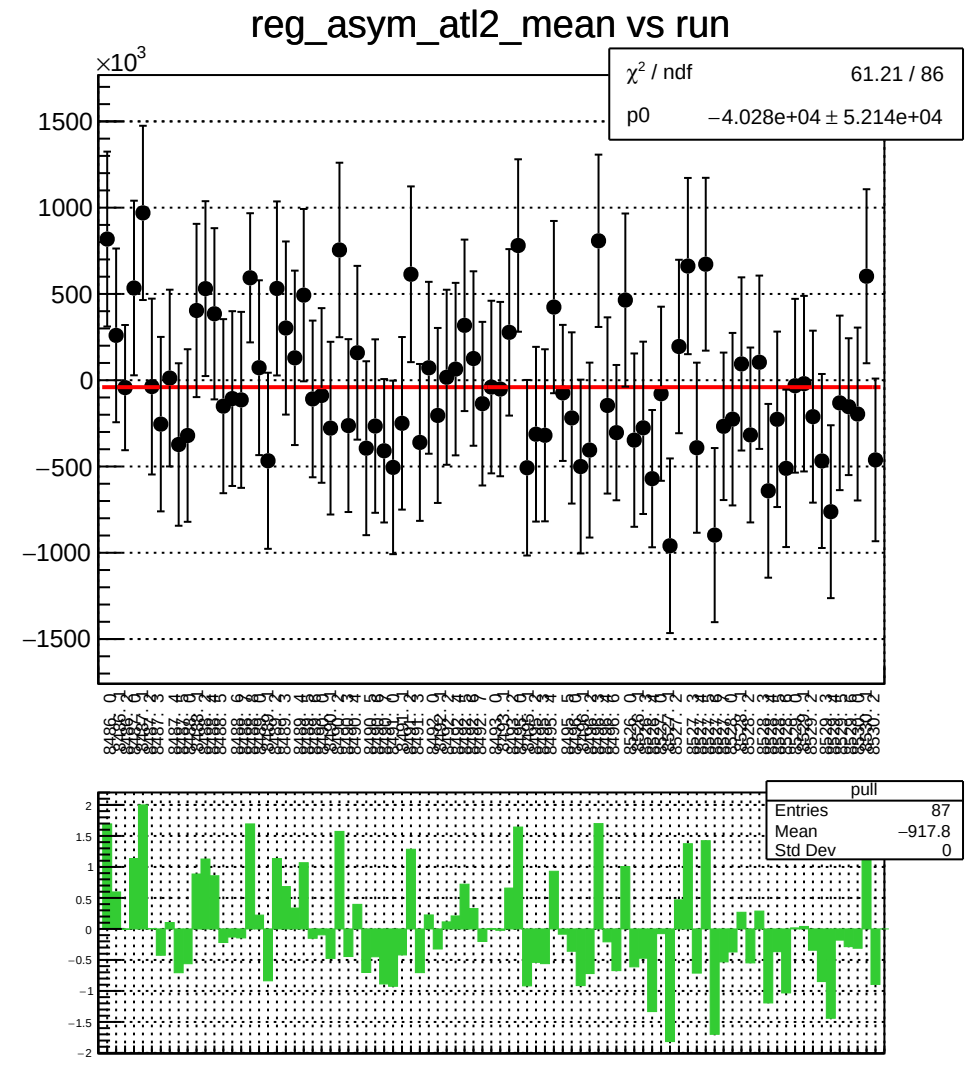

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.882e+05 / 90
p0 43.65 ± 0.03612
120
100
80
60
40
20

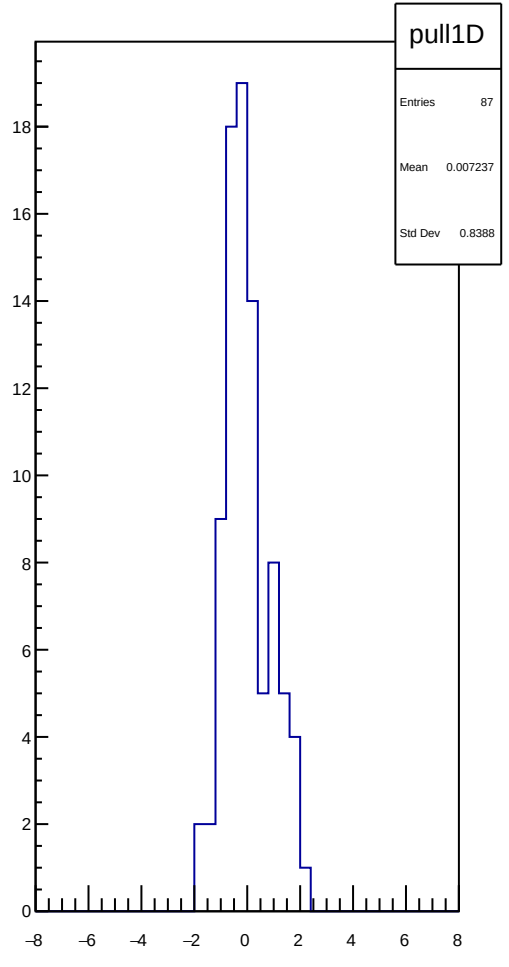

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.4 / 90
p0 5.04e−05 ± 0.05108
pull
Entries 91
Mean 50.8
Std Dev 0
pull1D
Entries 91
Mean 0.05131
Std Dev 1.049

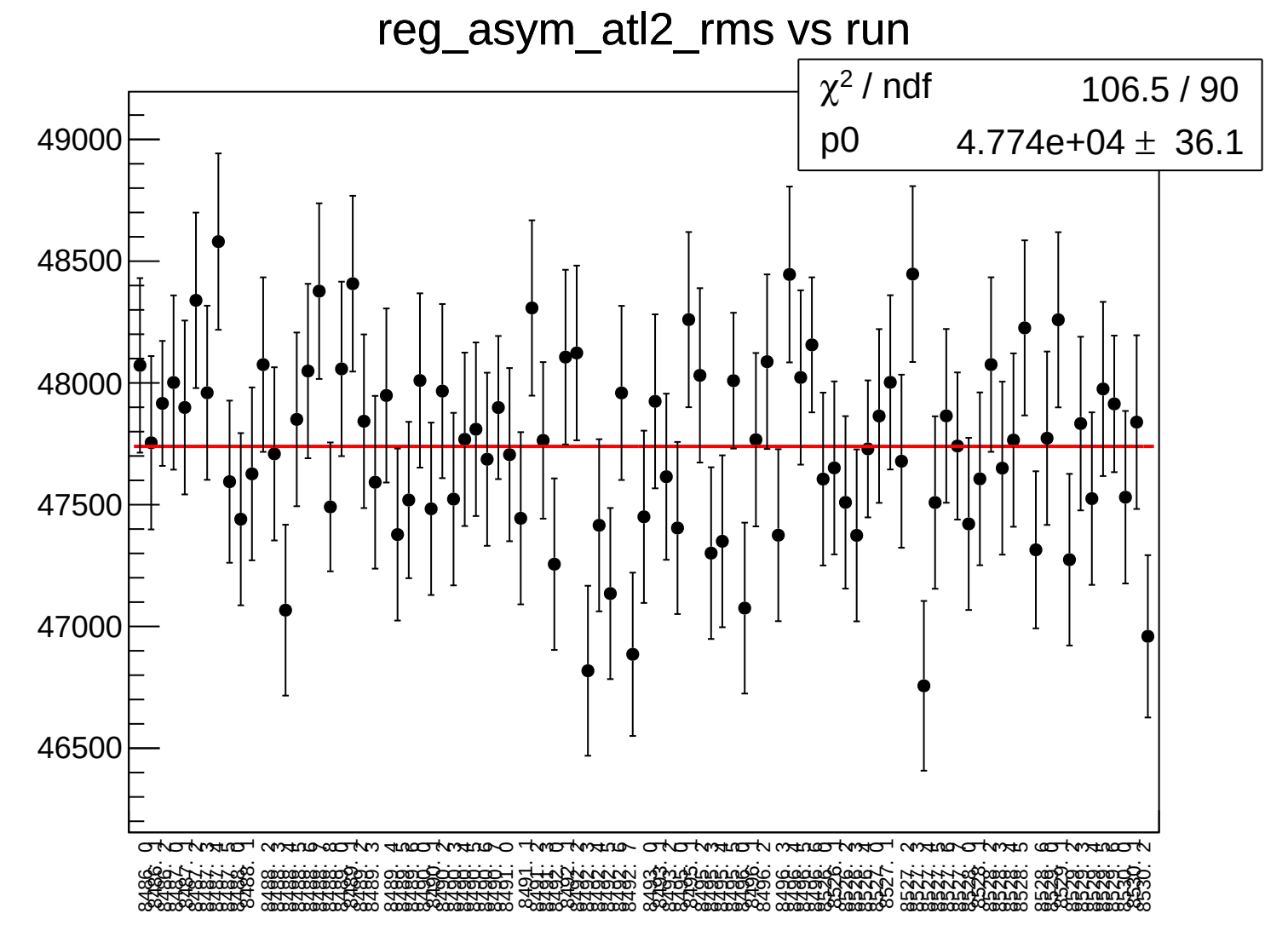

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.882e+05 / 90
p0 43.65 ± 0.03612
120
100
80
60
40
20

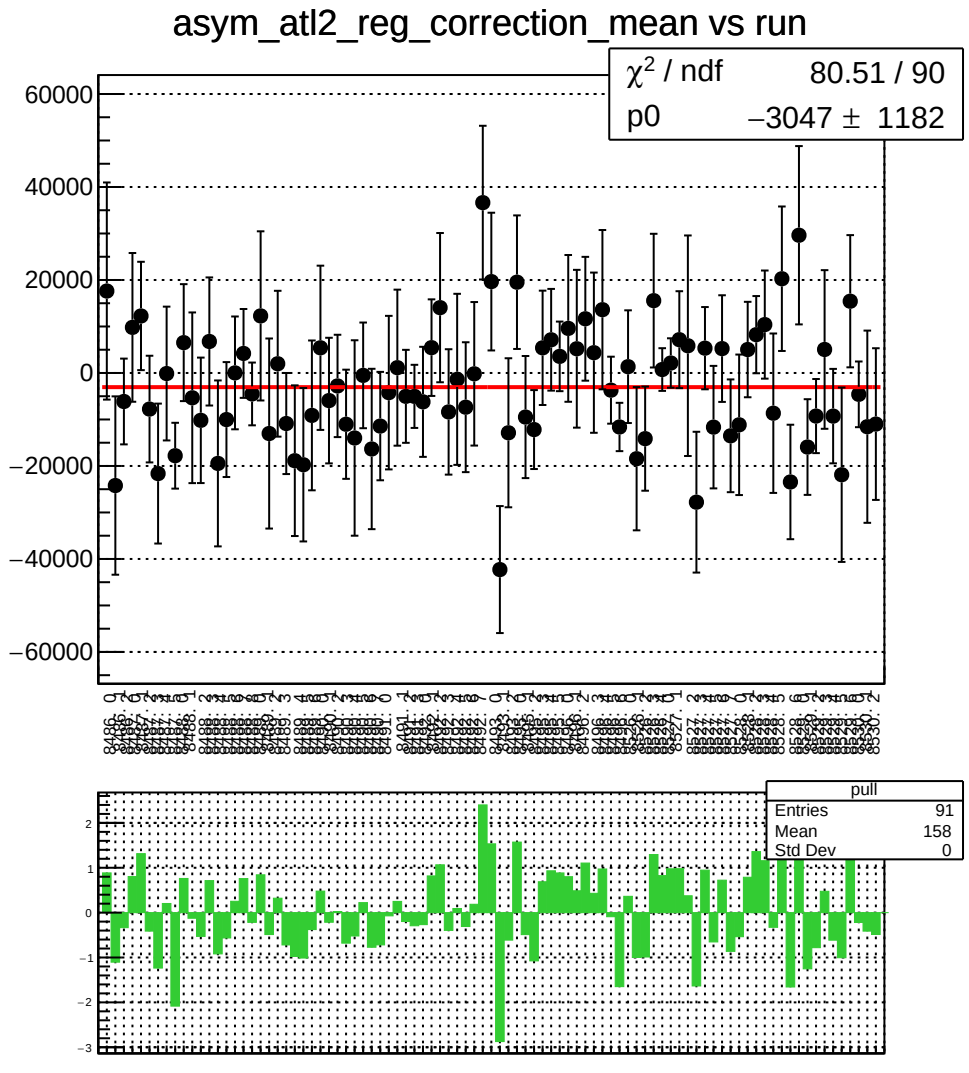

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.53 / 90
p0 7.755e−15 ± 4.302e−14
pull
Entries 91
Mean 66.12
Std Dev 33.57
pull1D
Entries 91
Mean −0.04883
Std Dev 0.9394

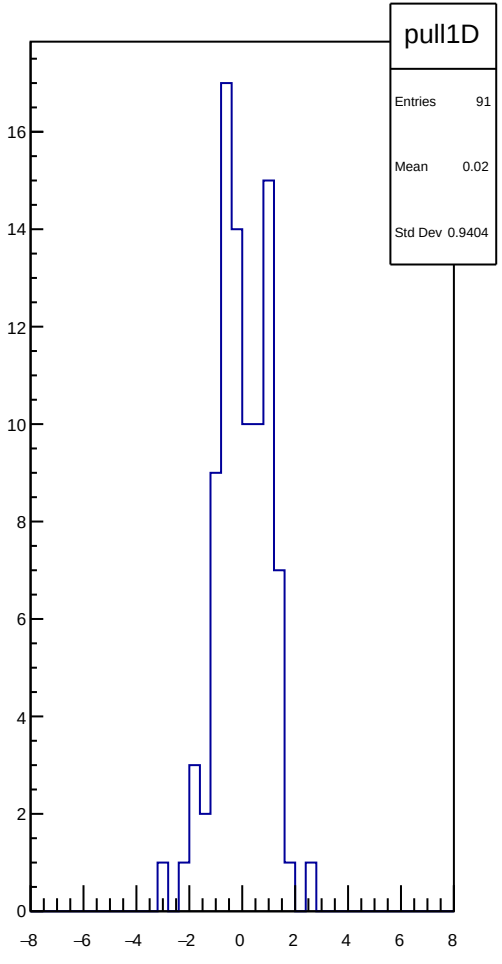

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.483e+05 / 90
p0 3.192e−11 ± 3.042e−14
0.25
0.2
0.15
0.1
0.05

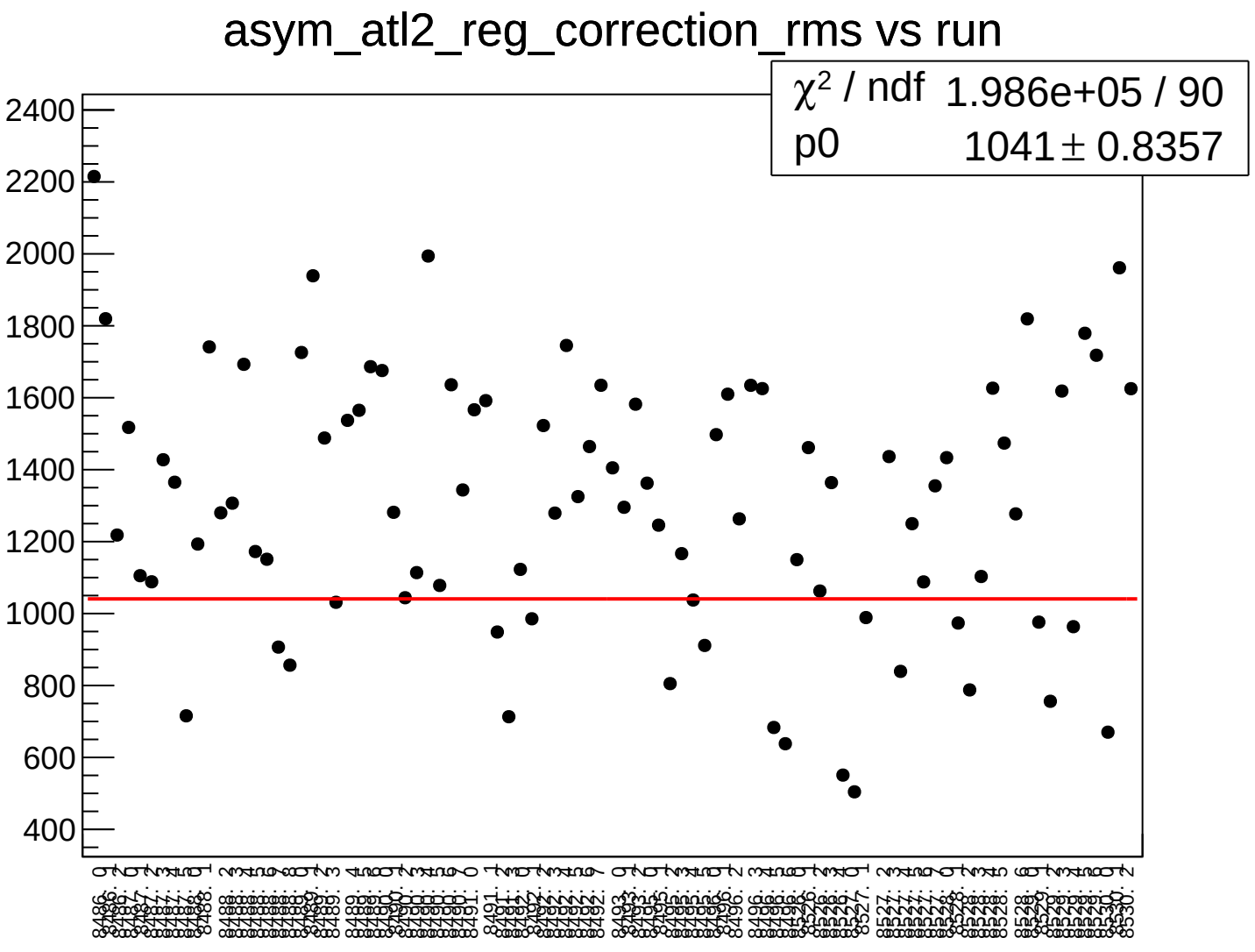

reg_asym_atl2_mean vs run
×10^3
χ² / ndf 61.21 / 86
p0 −4.028e+04 ± 5.214e+04
1500
1000
500
0
−500
−1000
−1500
pull
Entries 87
Mean −917.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

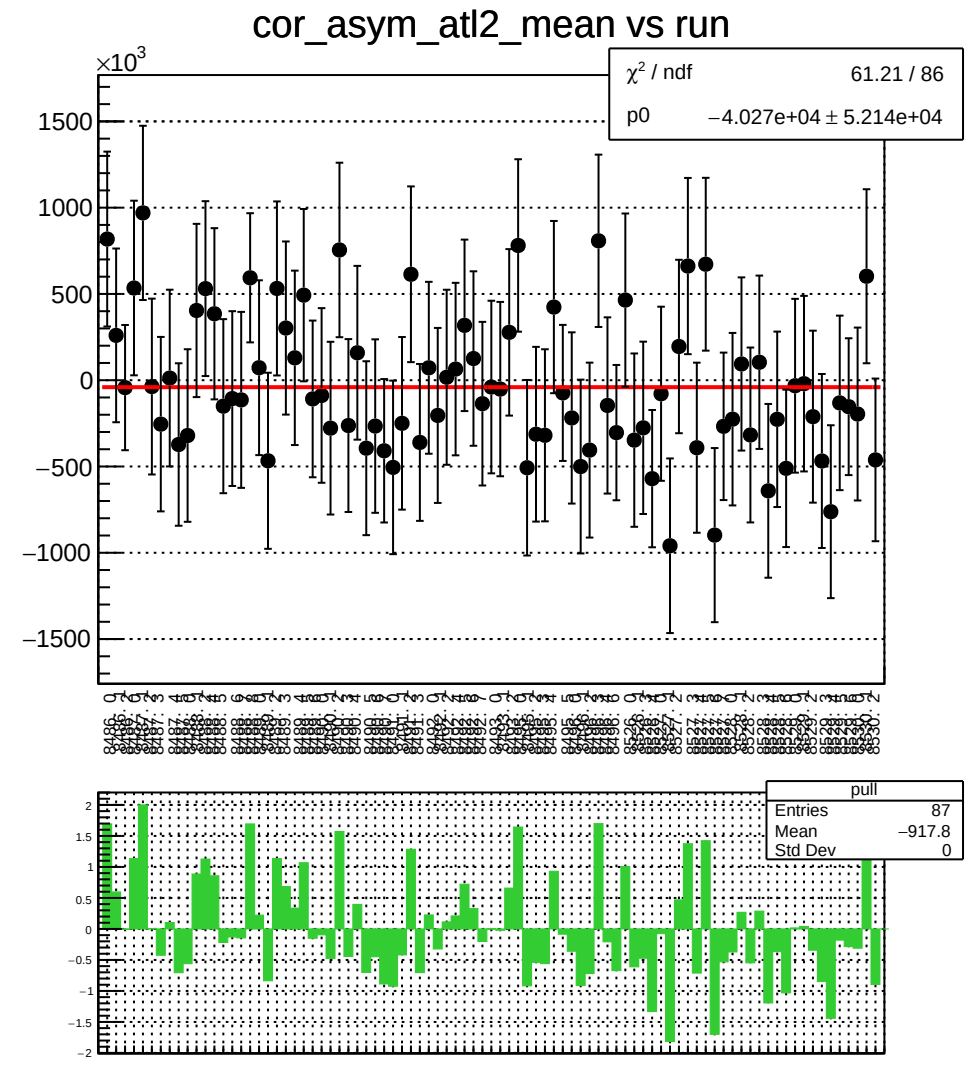

pull1D
Entries 87
Mean 0.007237
Std Dev 0.8388
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

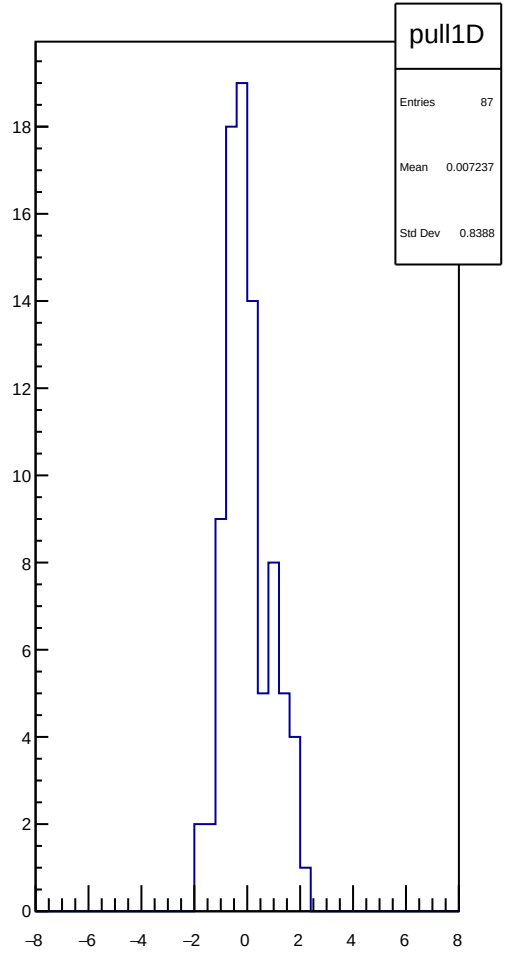

reg_asym_atl2_rms vs run
χ^2 / ndf 106.5 / 90
p0 4.774e+04 ± 36.1
49000
48500
48000
47500
47000
46500

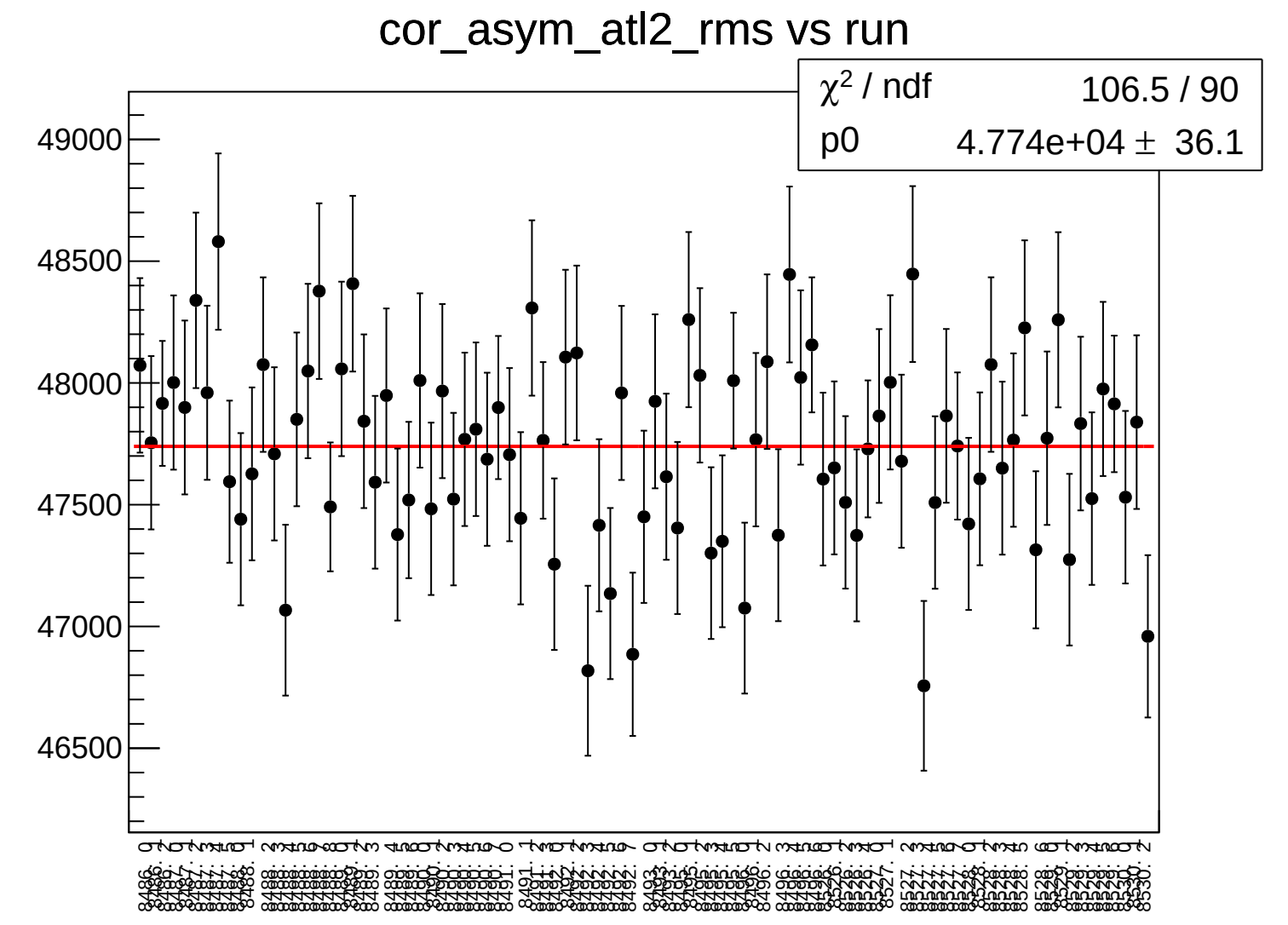

asym_atl2_reg_correction_mean vs run
χ² / ndf 80.51 / 90
p0 −3047 ± 1182
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 158
Std Dev 0
2
1
0
−1
−2
−3

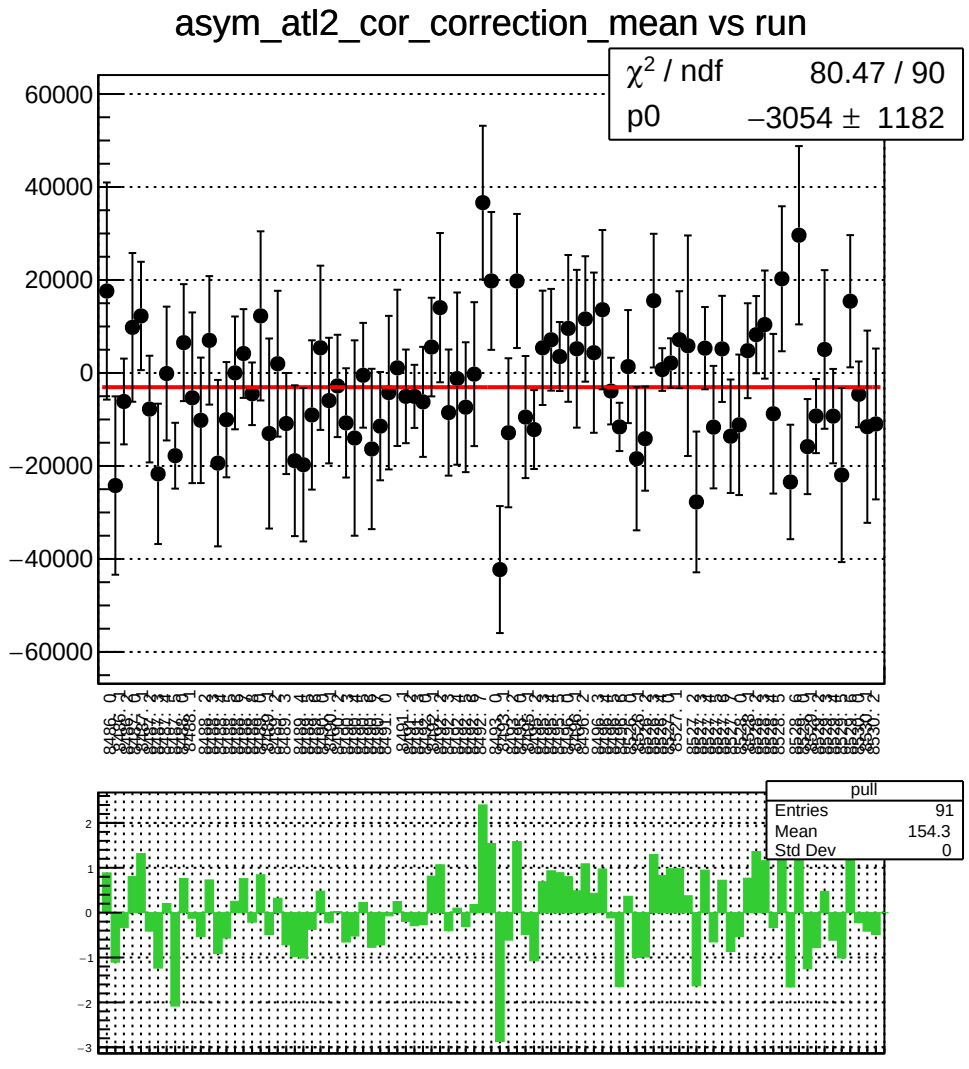

pull1D
Entries 91
Mean 0.02
Std Dev 0.9404
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

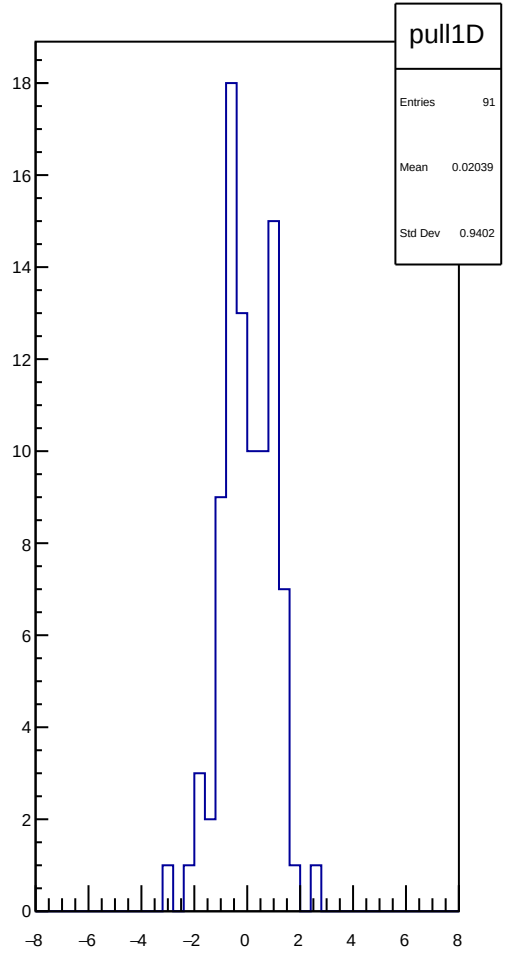

asym_atl2_reg_correction_rms vs run
χ² / ndf 1.986e+05 / 90
p0 1041 ± 0.8357
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400

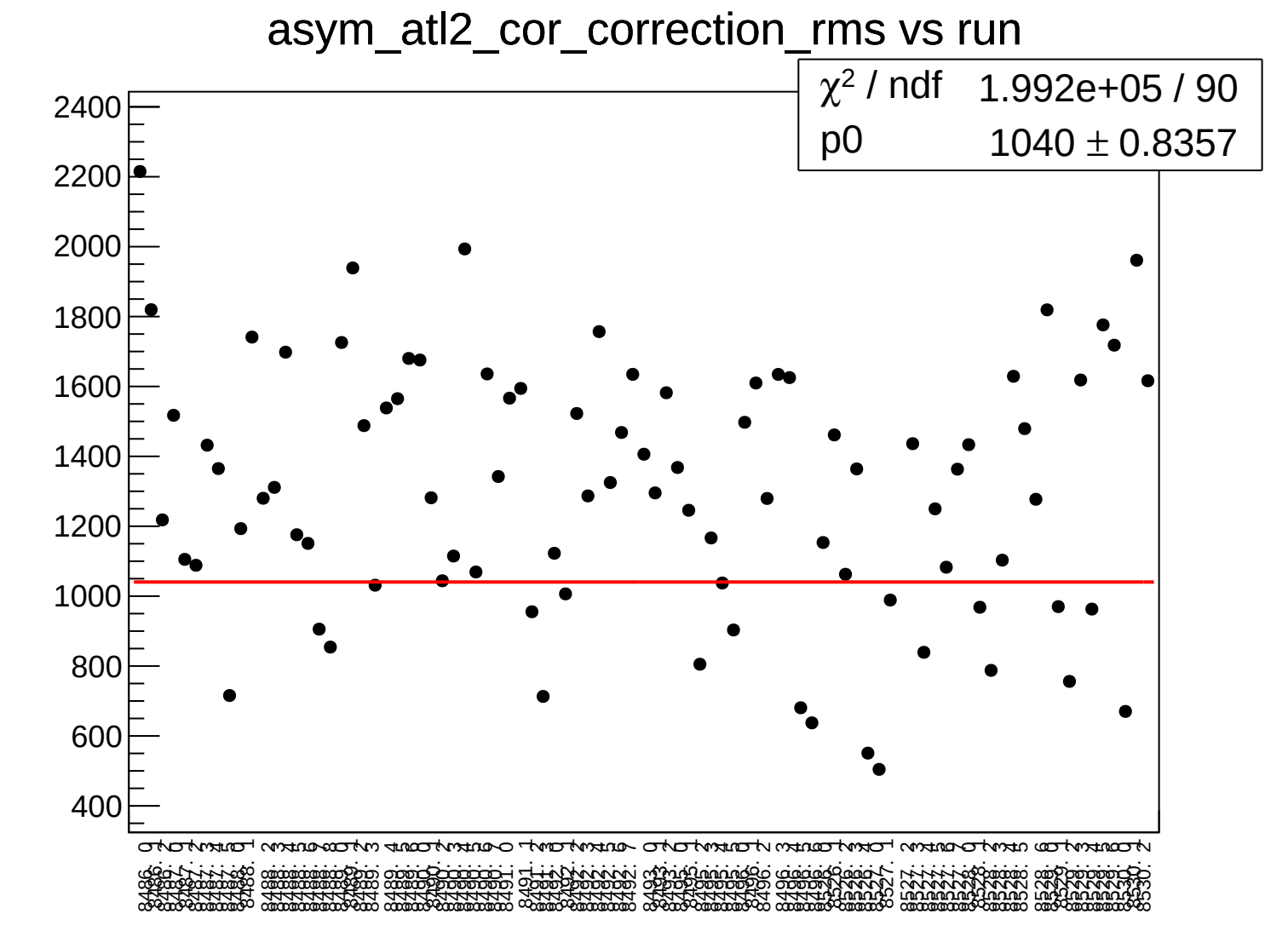

cor_asym_atl2_mean vs run
×10^3
χ² / ndf 61.21 / 86
p0 −4.027e+04 ± 5.214e+04
pull
Entries 87
Mean −917.8
Std Dev 0

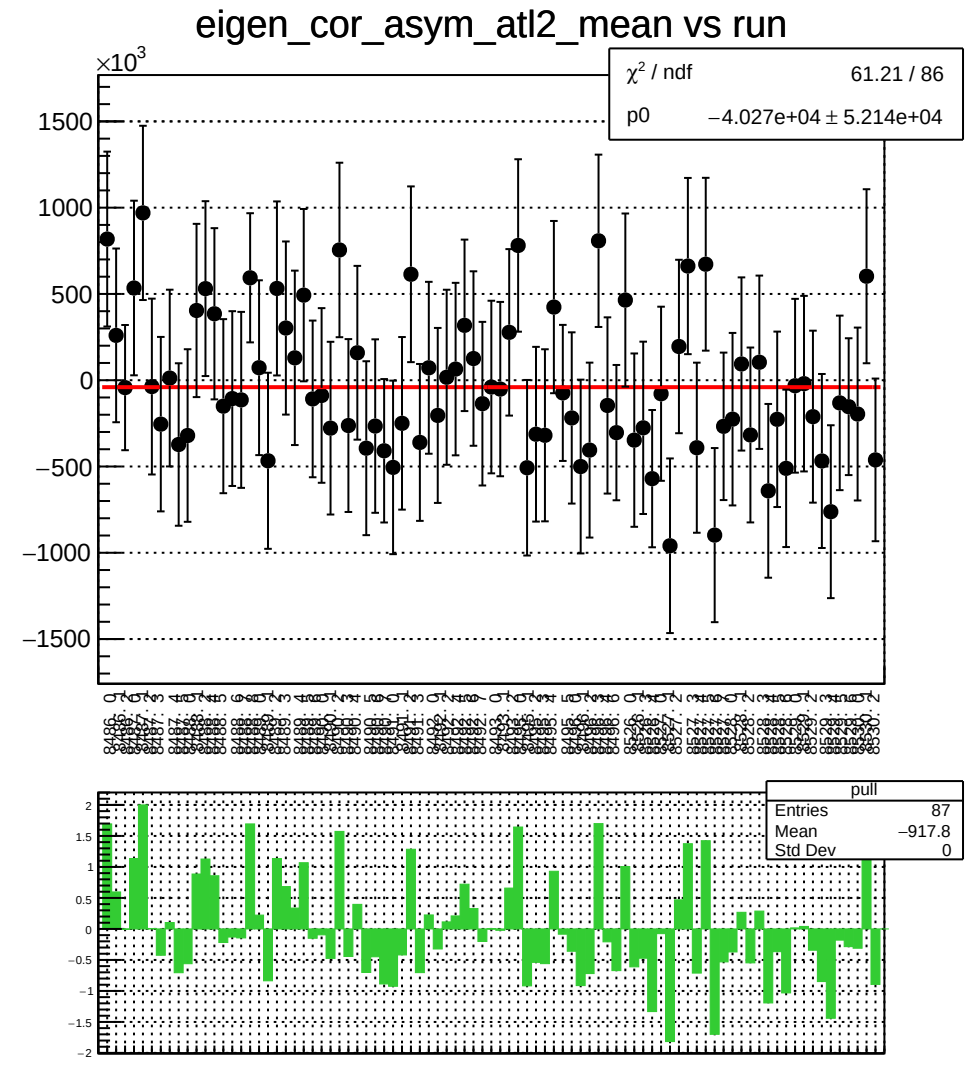

pull1D
Entries 87
Mean 0.007237
Std Dev 0.8388

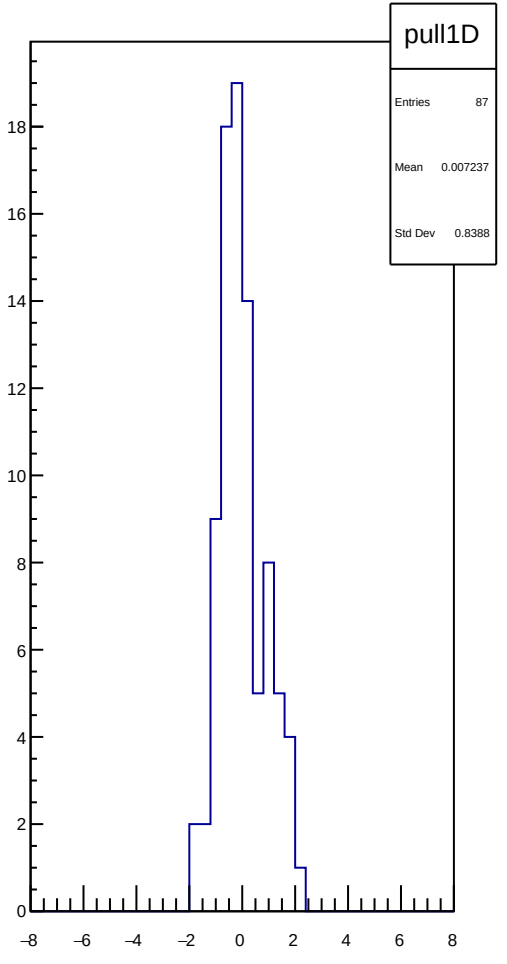

cor_asym_atl2_rms vs run
χ^2 / ndf 106.5 / 90
p0 4.774e+04 ± 36.1
49000
48500
48000
47500
47000
46500

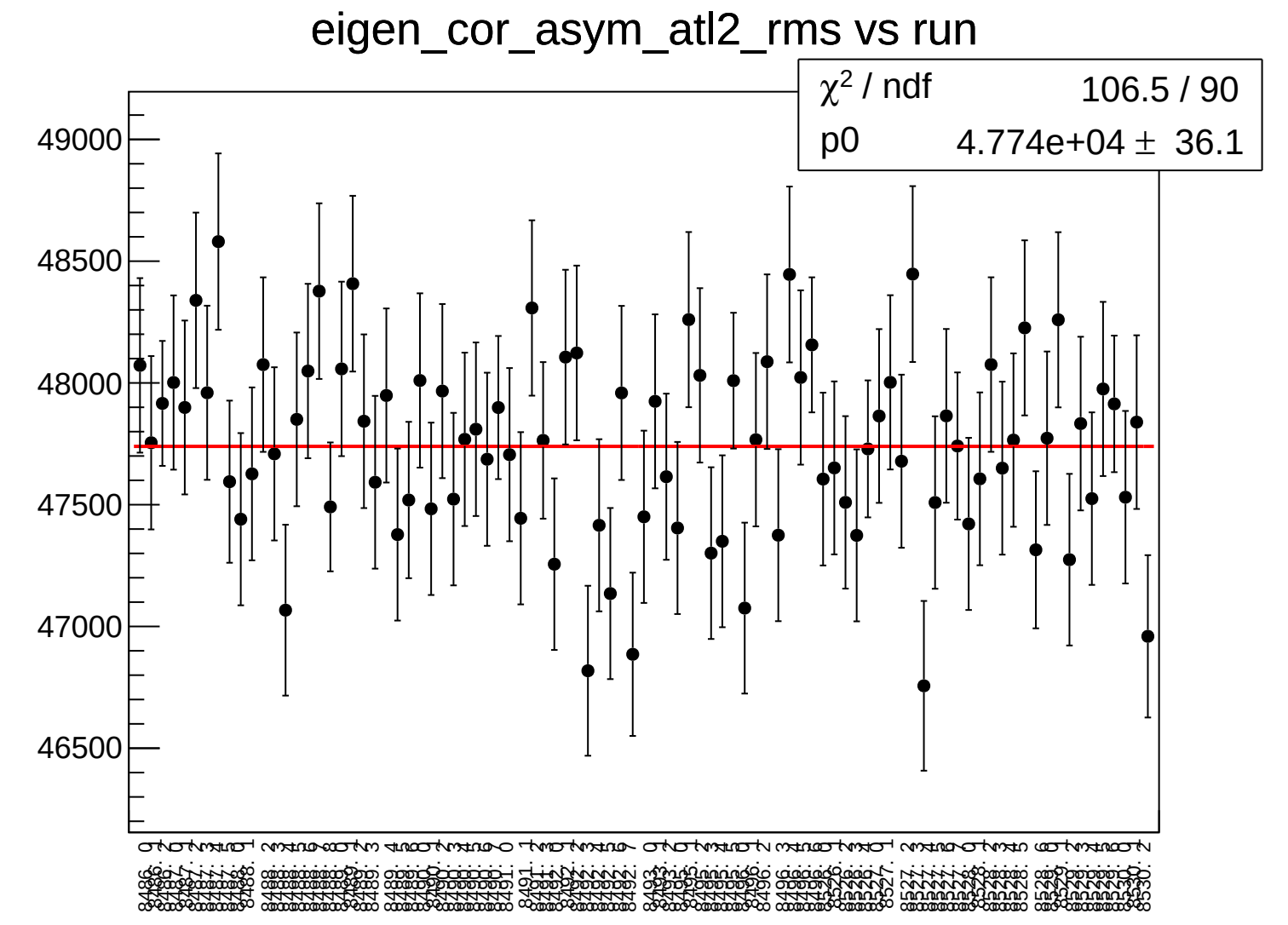

asym_atl2_cor_correction_mean vs run
χ² / ndf 80.47 / 90
p0 −3054 ± 1182
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 154.3
Std Dev 0
2
1
0
−1
−2
−3

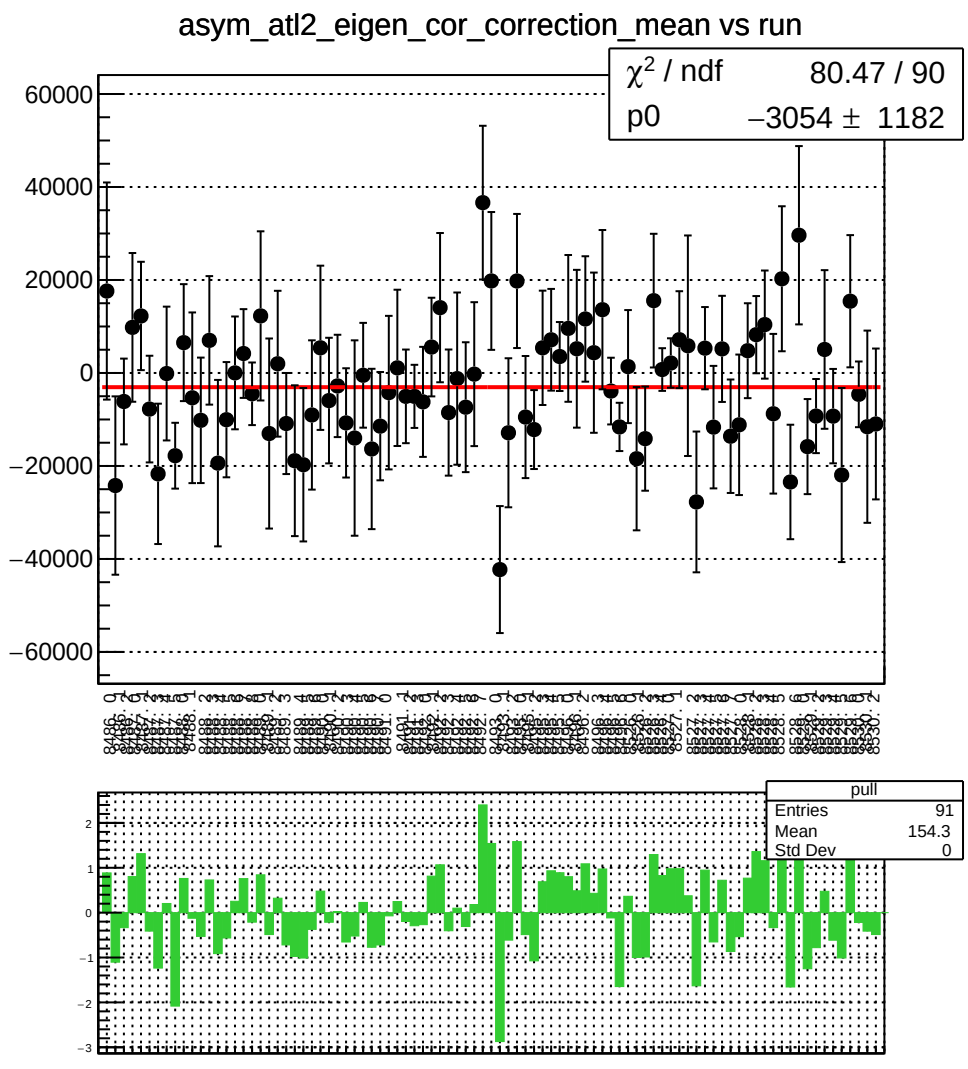

pull1D
Entries 91
Mean 0.02039
Std Dev 0.9402
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

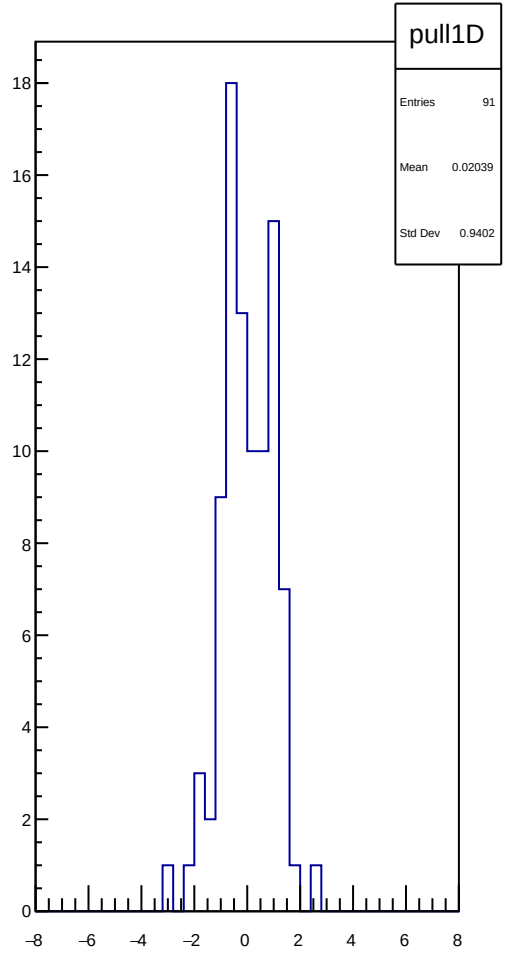

asym_atl2_cor_correction_rms vs run
χ² / ndf 1.992e+05 / 90
p0 1040 ± 0.8357
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400

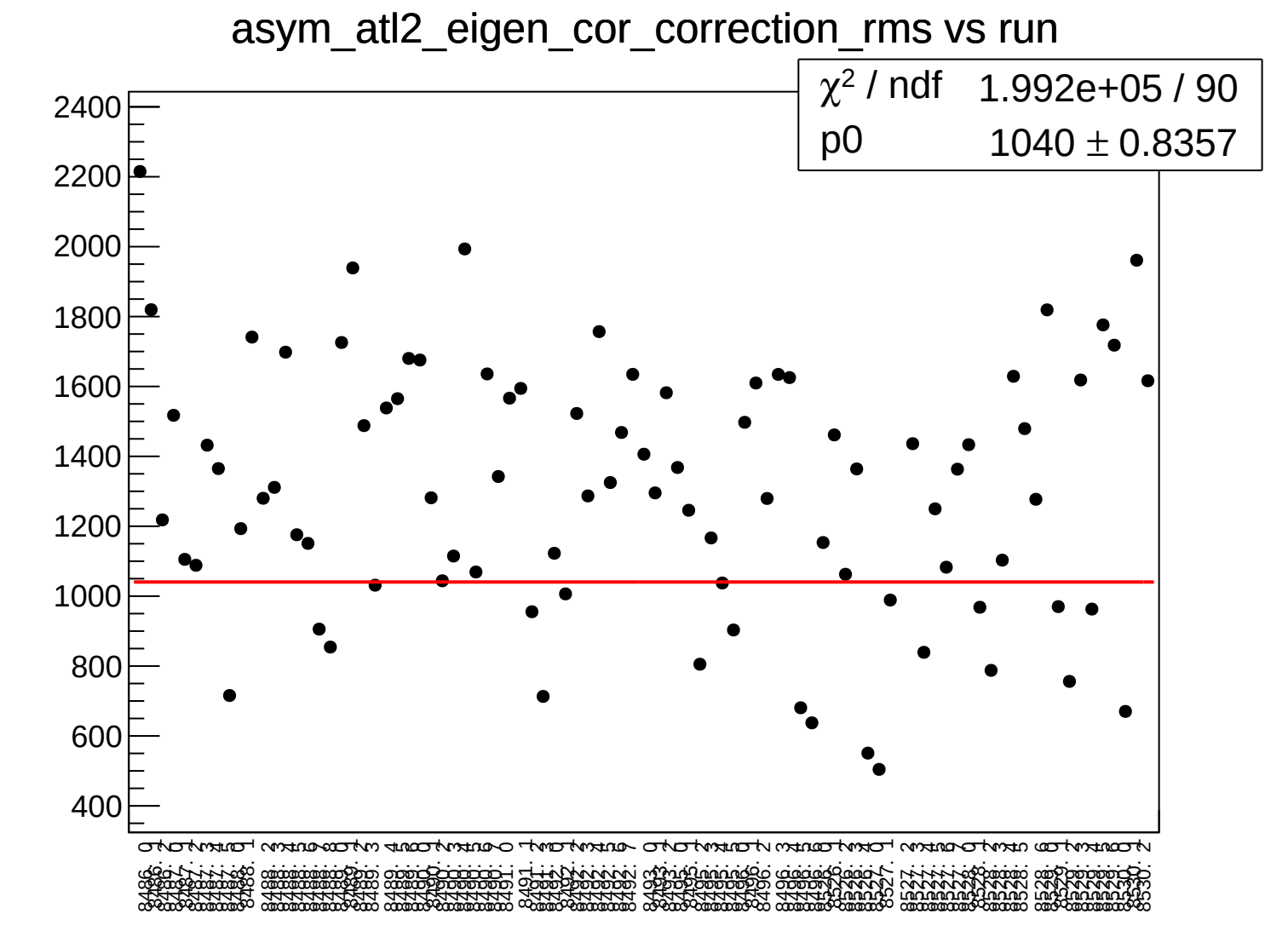

eigen_cor_asym_atl2_mean vs run
×10^3
χ² / ndf 61.21 / 86
p0 −4.027e+04 ± 5.214e+04
1500
1000
500
0
−500
−1000
−1500
pull
Entries 87
Mean −917.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

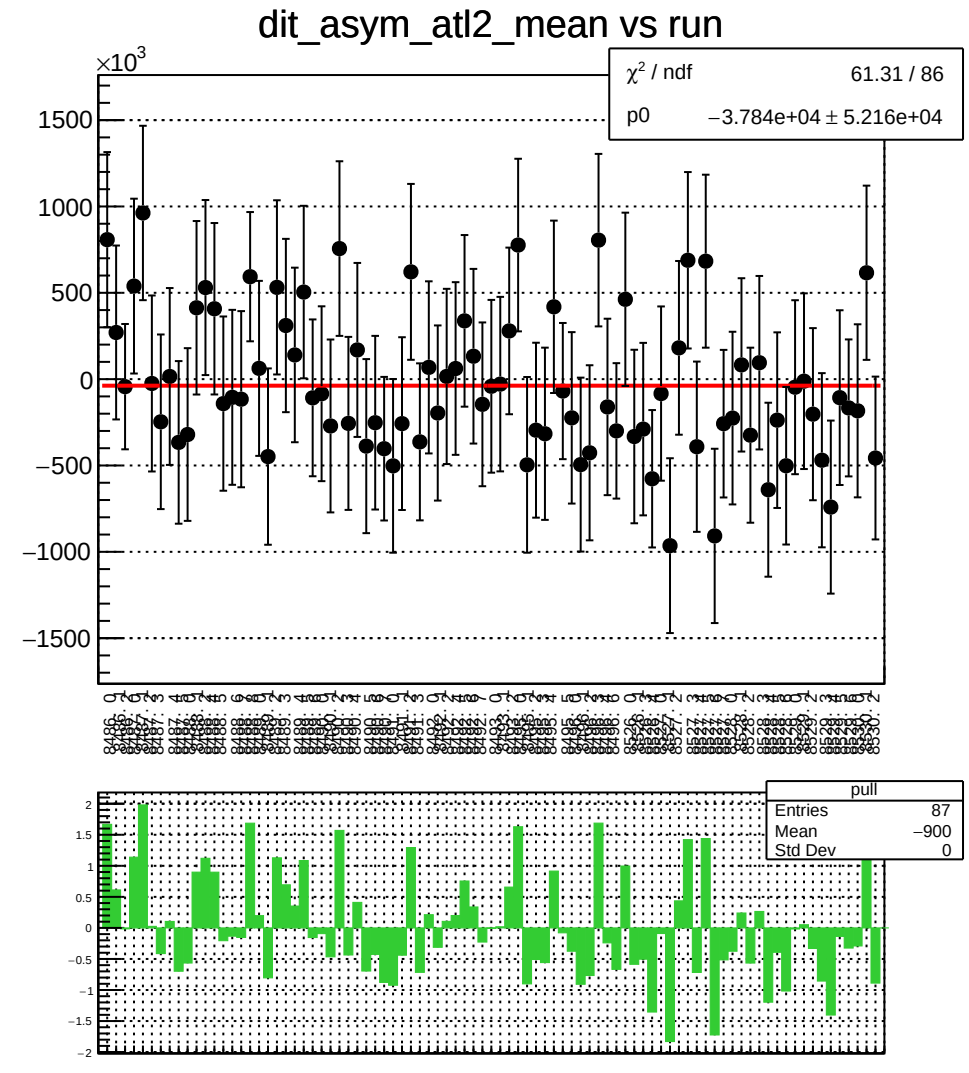

pull1D
Entries 87
Mean 0.007237
Std Dev 0.8388
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

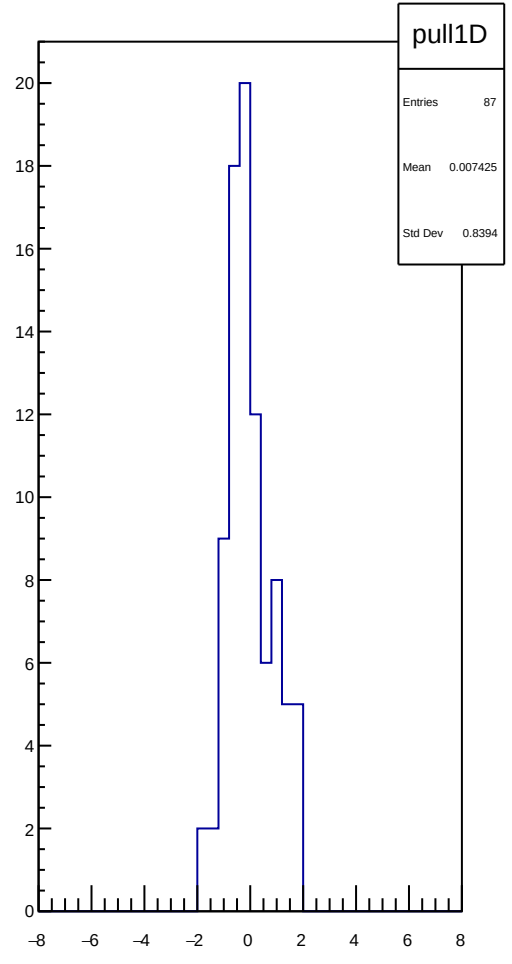

eigen_cor_asym_atl2_rms vs run
χ² / ndf 106.5 / 90
p0 4.774e+04 ± 36.1
49000
48500
48000
47500
47000
46500

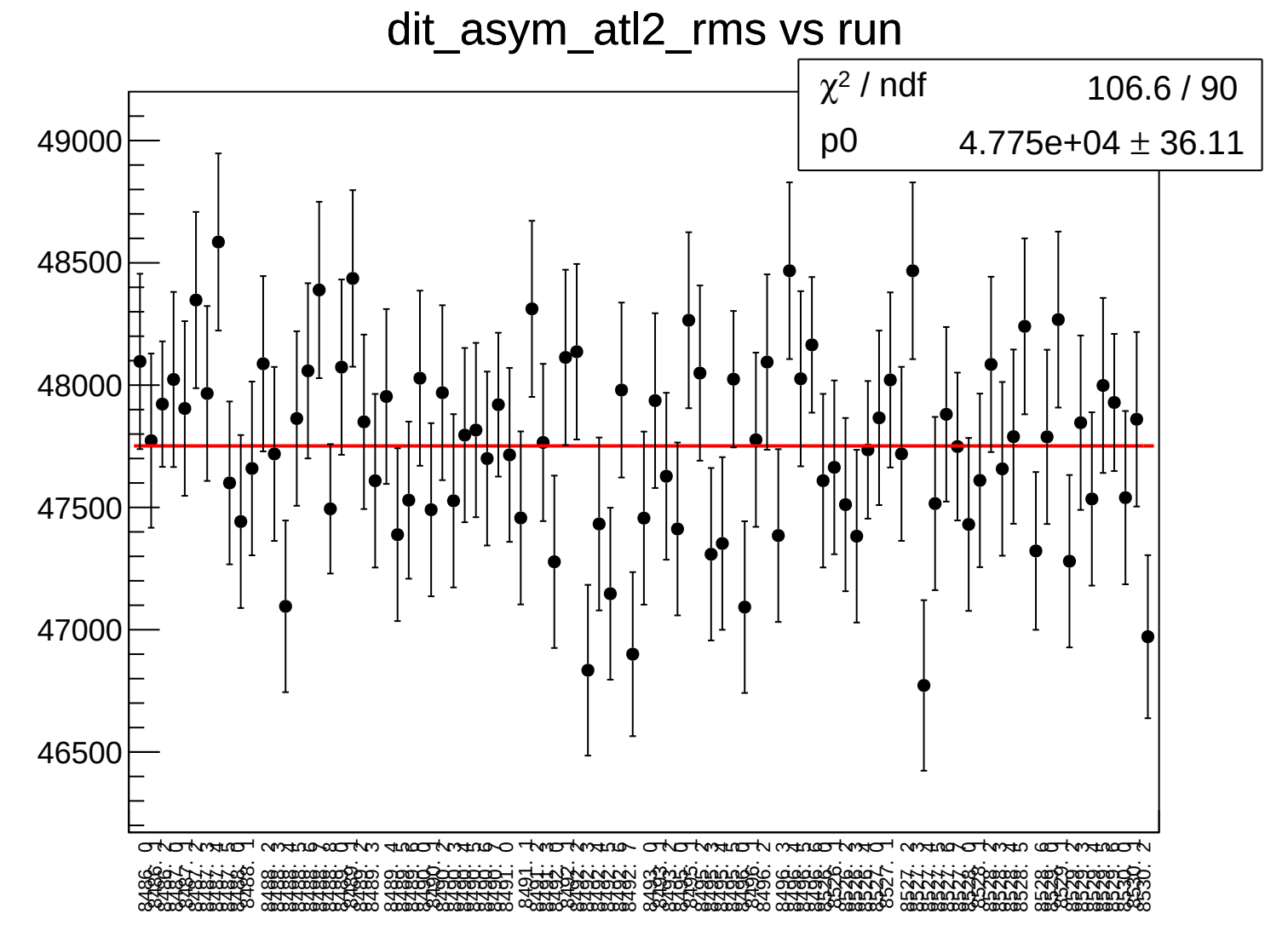

asym_atl2_eigen_cor_correction_mean vs run
χ² / ndf 80.47 / 90
p0 −3054 ± 1182
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 154.3
Std Dev 0
2
1
0
−1
−2
−3

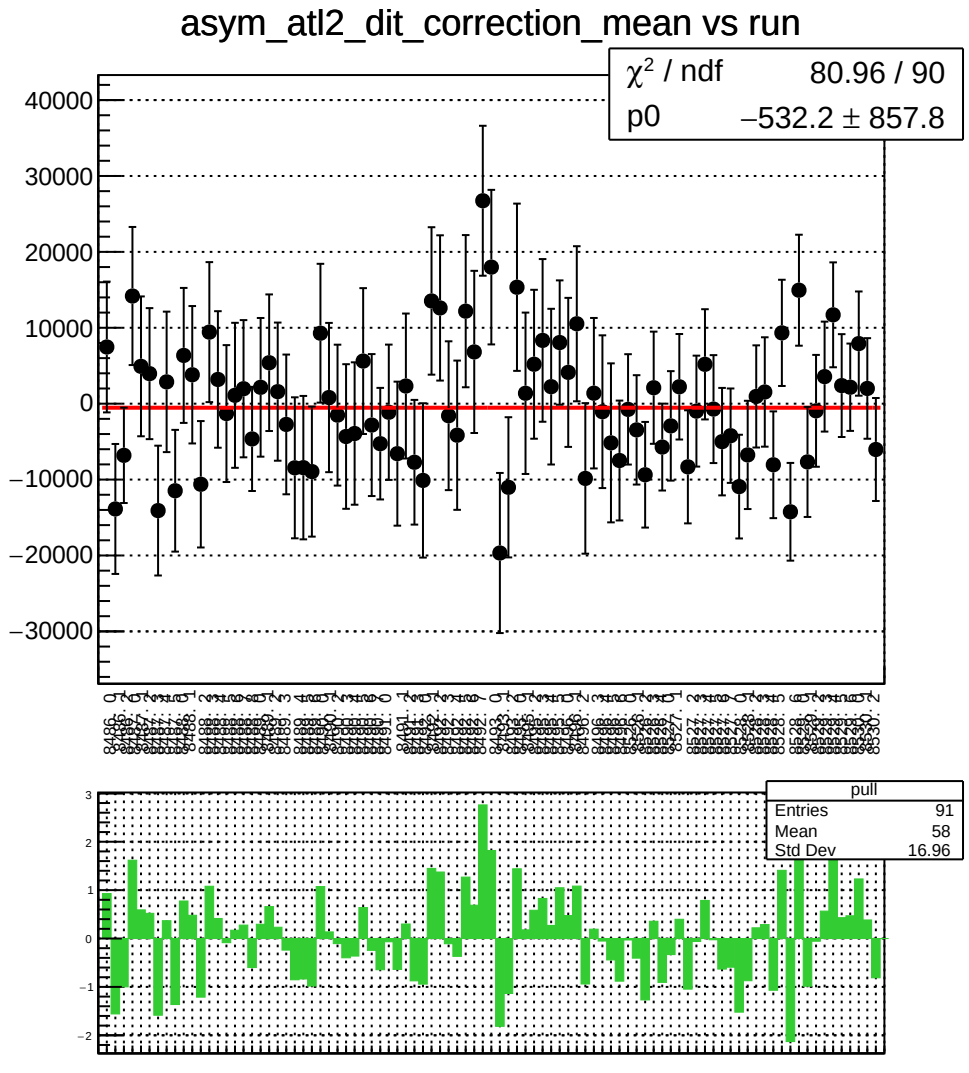

pull1D
Entries 91
Mean 0.02039
Std Dev 0.9402
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

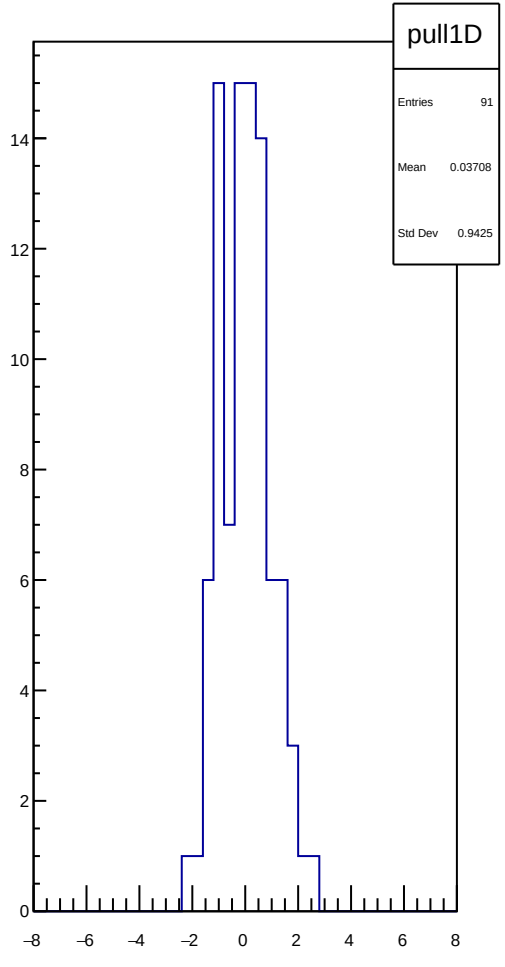

asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 1.992e+05 / 90
p0 1040 ± 0.8357
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400

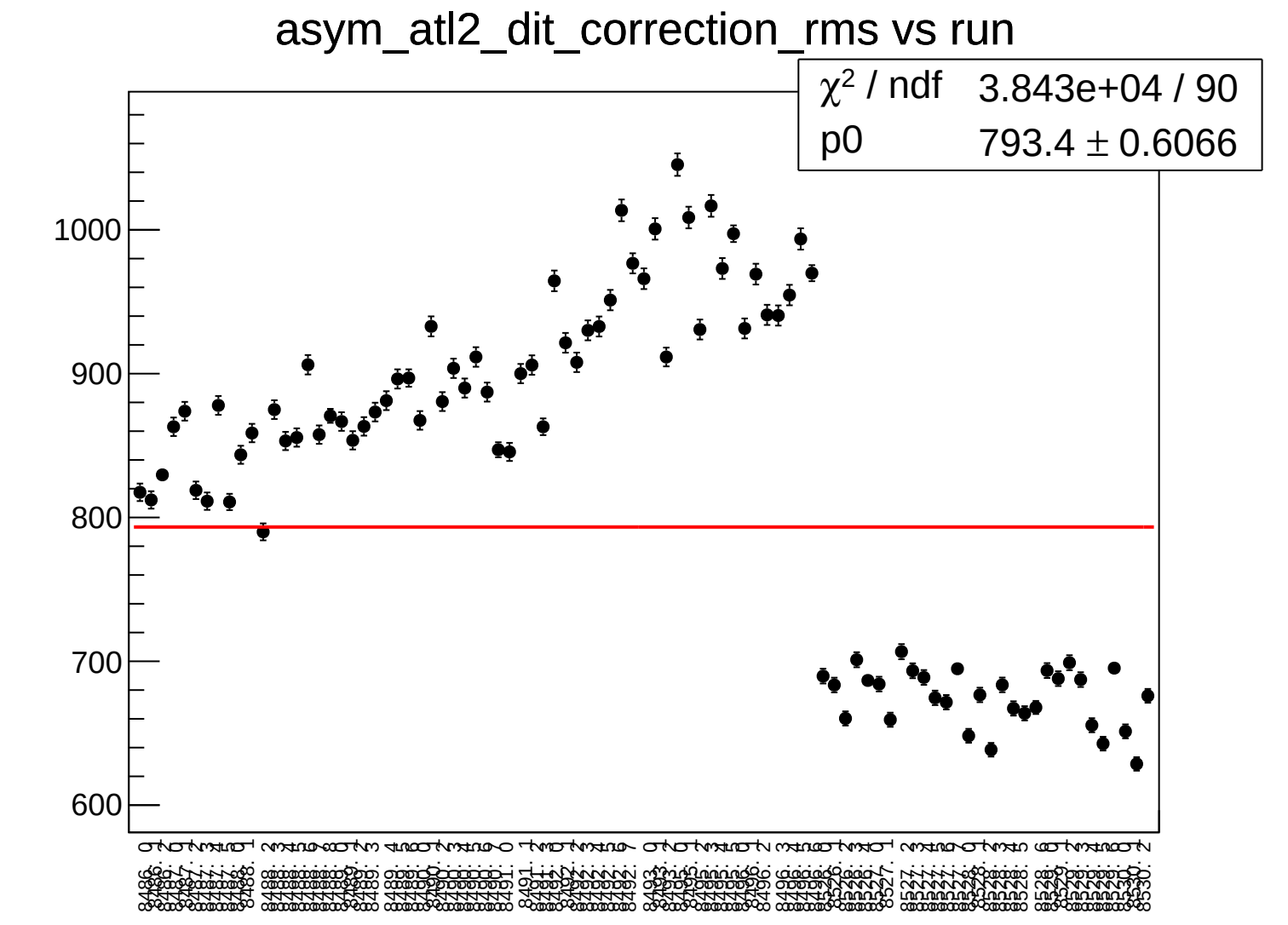

dit_asym_atl2_mean vs run
×10^3
χ² / ndf 61.31 / 86
p0 −3.784e+04 ± 5.216e+04
pull
Entries 87
Mean −900
Std Dev 0

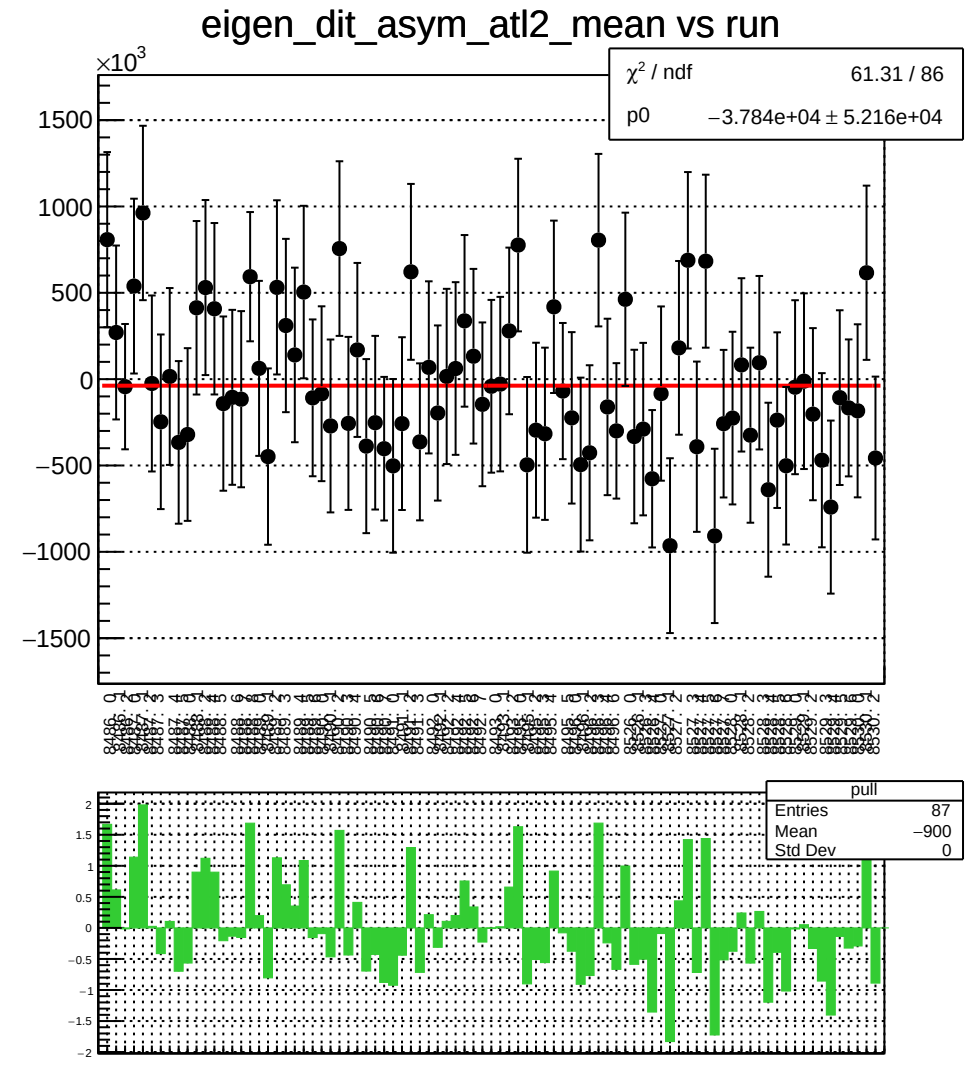

pull1D
Entries 87
Mean 0.007425
Std Dev 0.8394

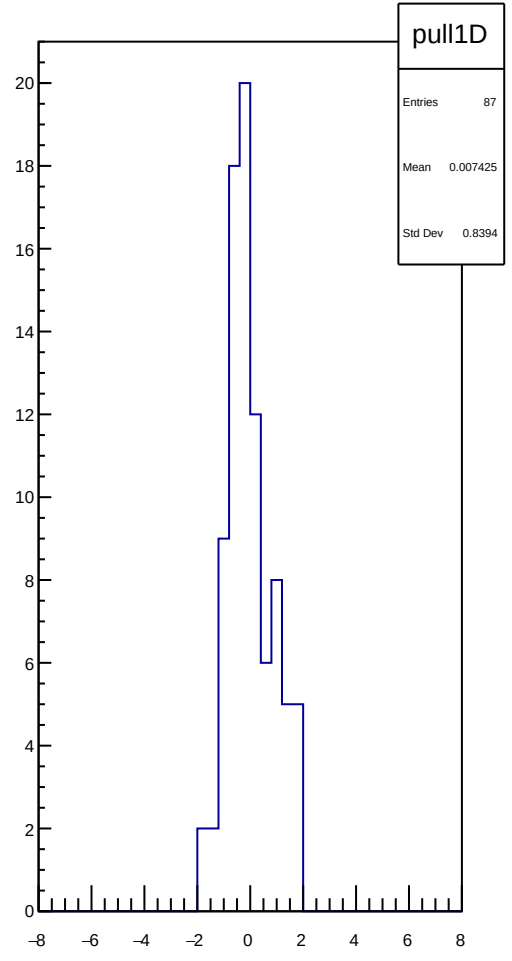

dit_asym_atl2_rms vs run
χ² / ndf 106.6 / 90
p0 4.775e+04 ± 36.11
49000
48500
48000
47500
47000
46500

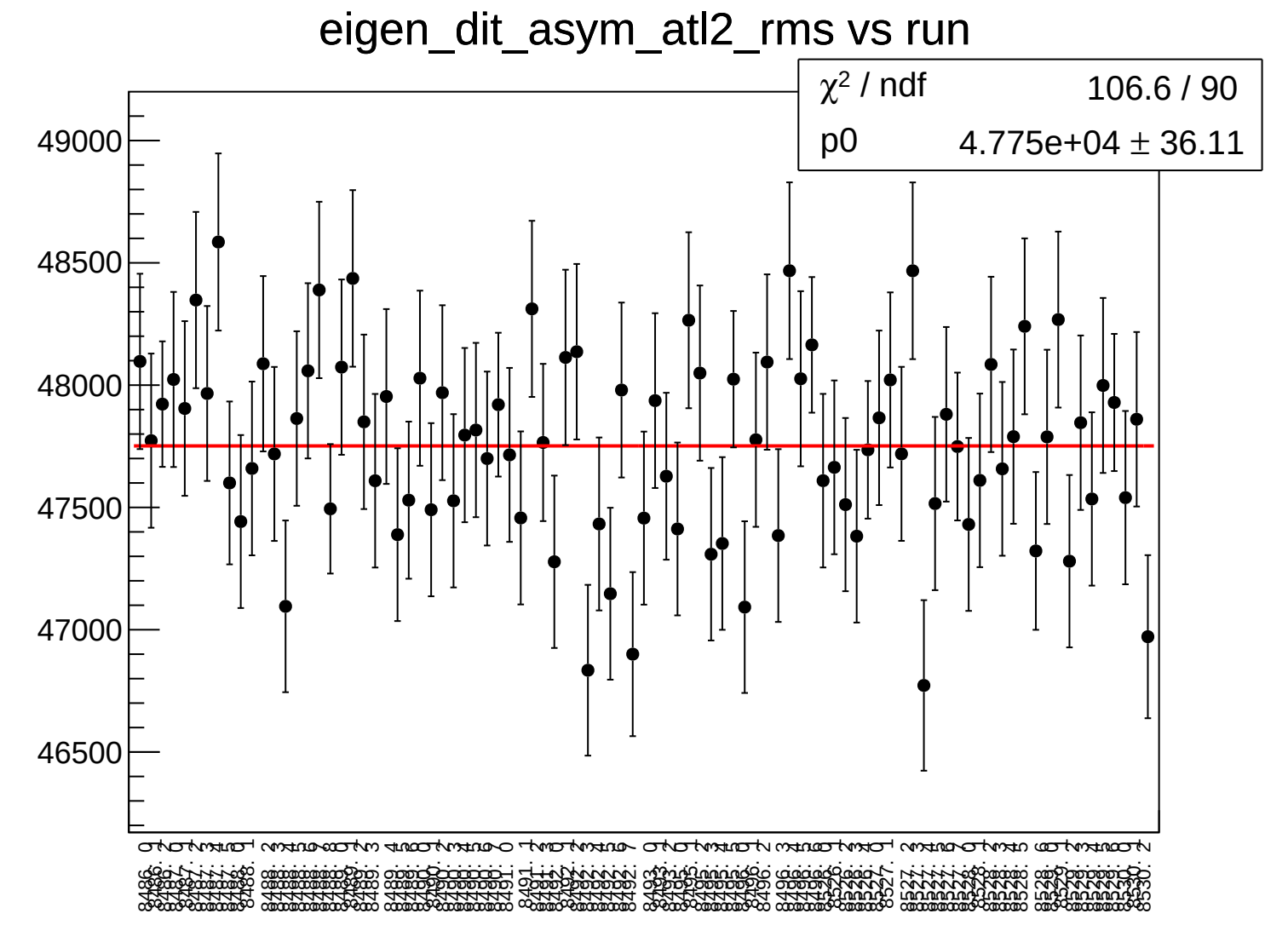

asym_atl2_dit_correction_mean vs run
χ² / ndf 80.96 / 90
p0 −532.2 ± 857.8
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 58
Std Dev 16.96
3
2
1
0
−1
−2

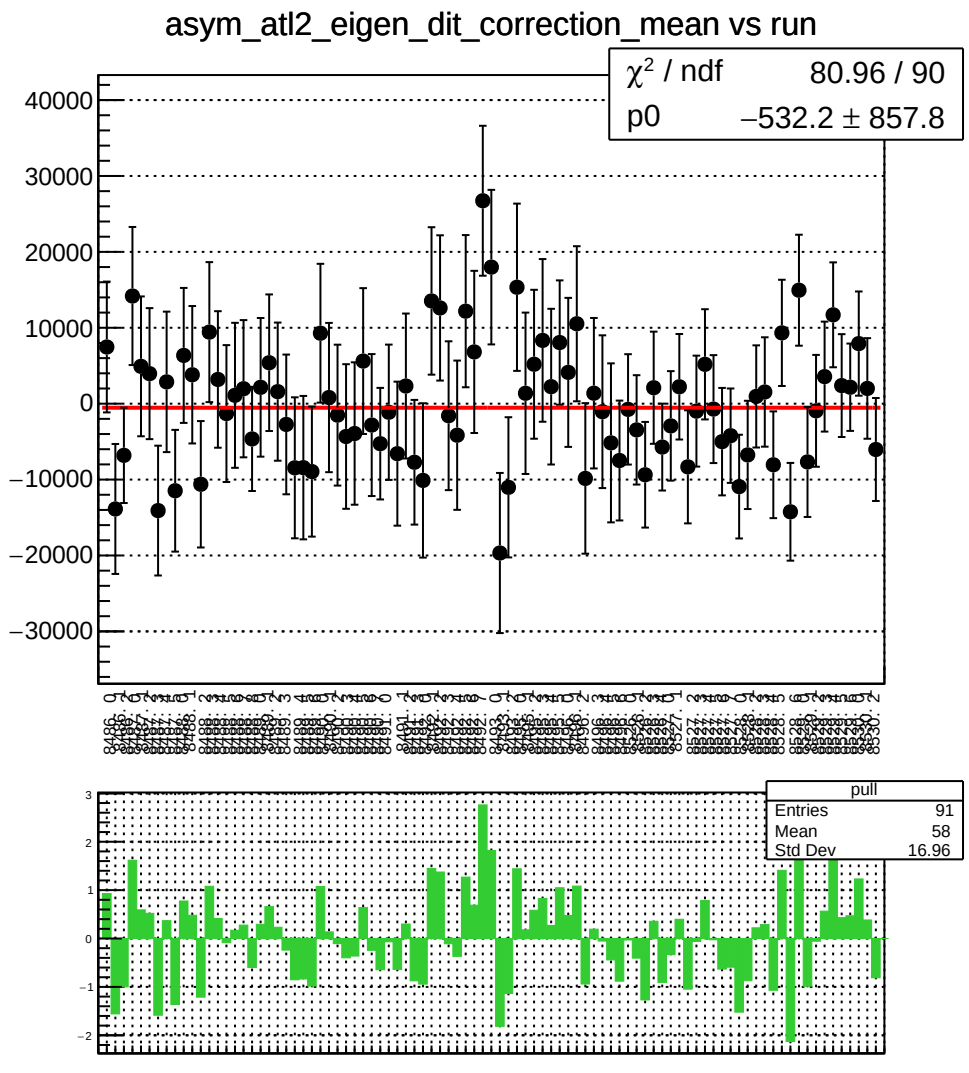

pull1D
Entries 91
Mean 0.03708
Std Dev 0.9425
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

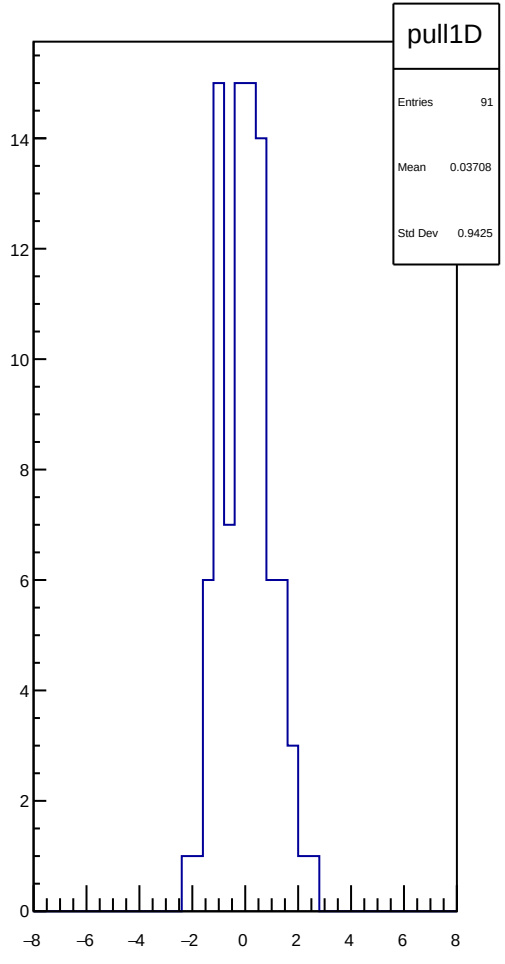

asym_atl2_dit_correction_rms vs run
χ^2 / ndf 3.843e+04 / 90
p0 793.4 ± 0.6066
1000
900
800
700
600

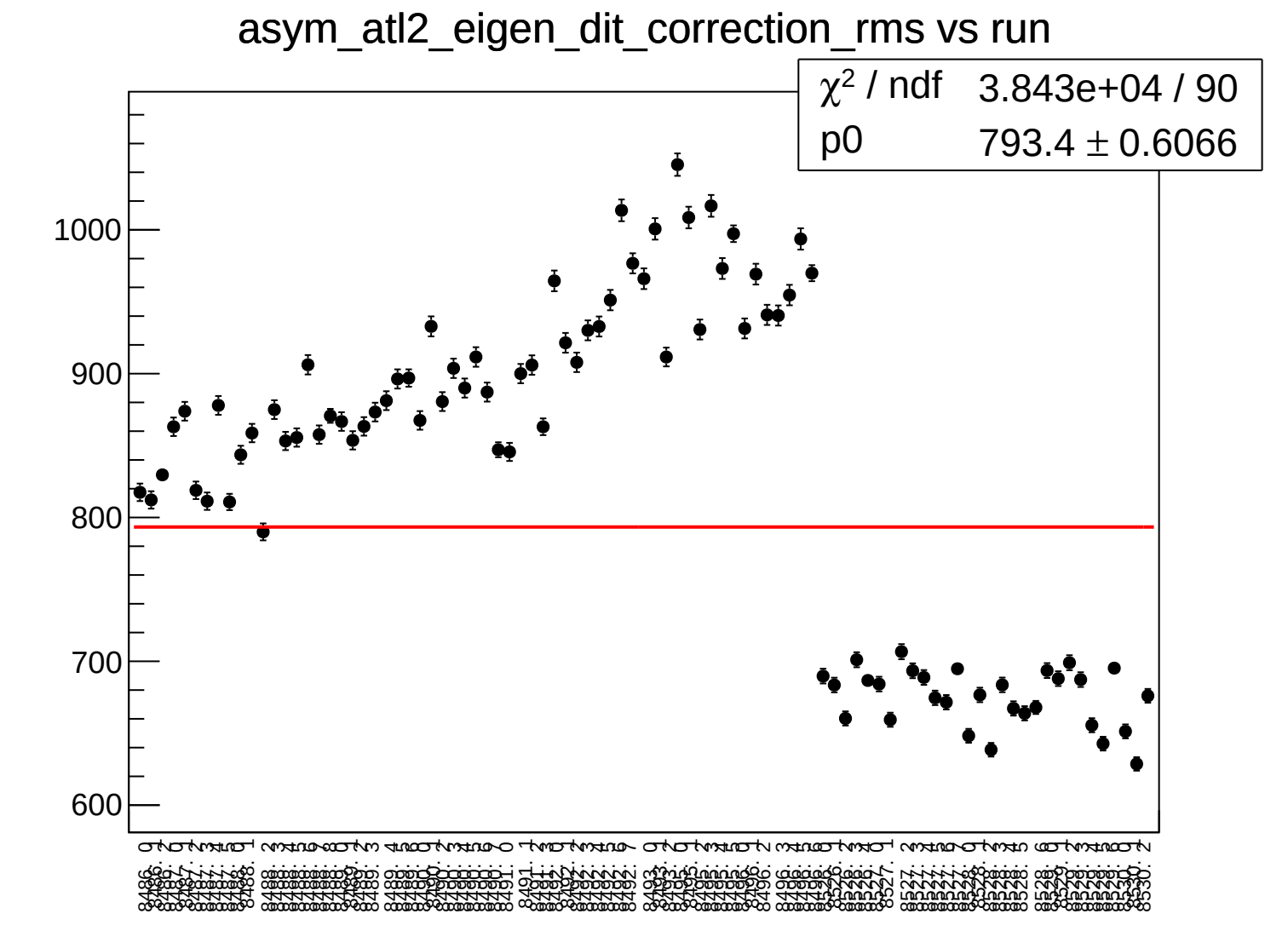

eigen_dit_asym_atl2_mean vs run
×10^3
χ² / ndf 61.31 / 86
p0 −3.784e+04 ± 5.216e+04
pull
Entries 87
Mean −900
Std Dev 0

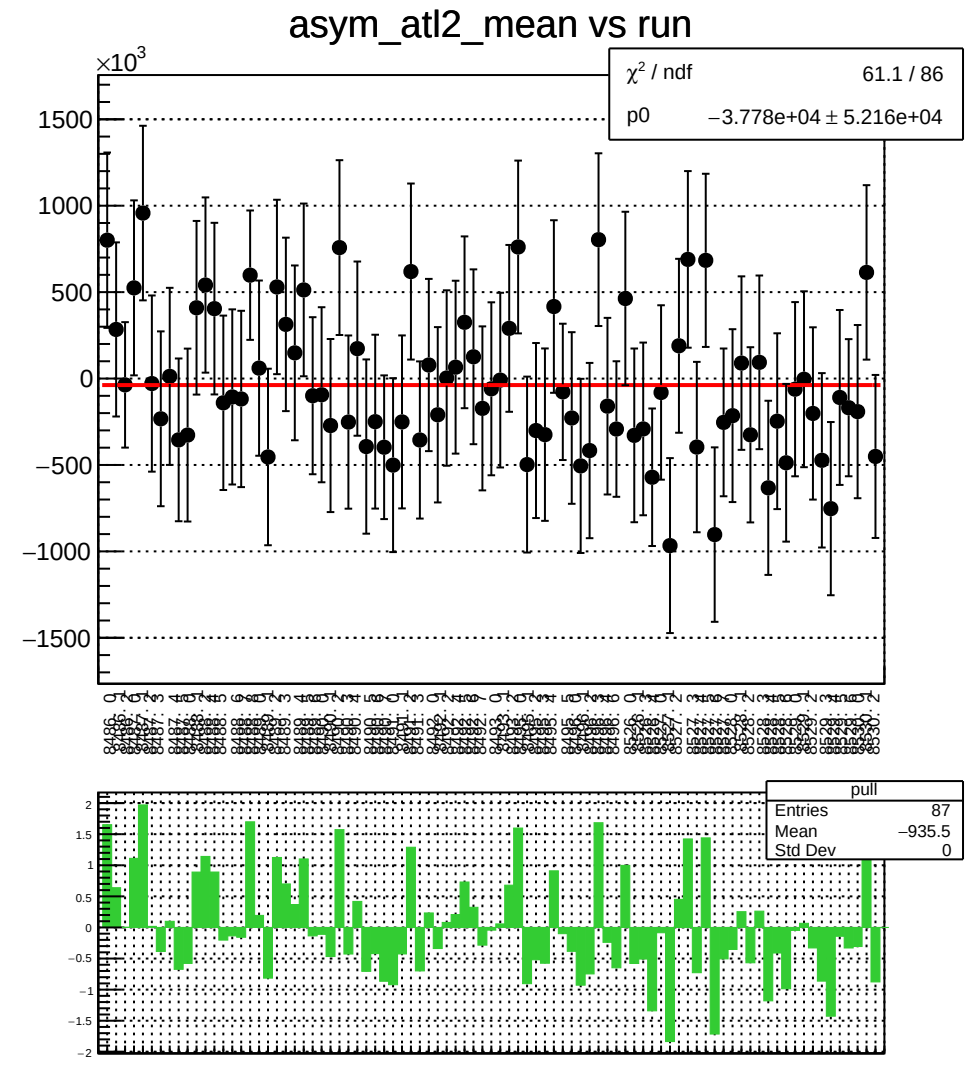

pull1D
Entries 87
Mean 0.007425
Std Dev 0.8394

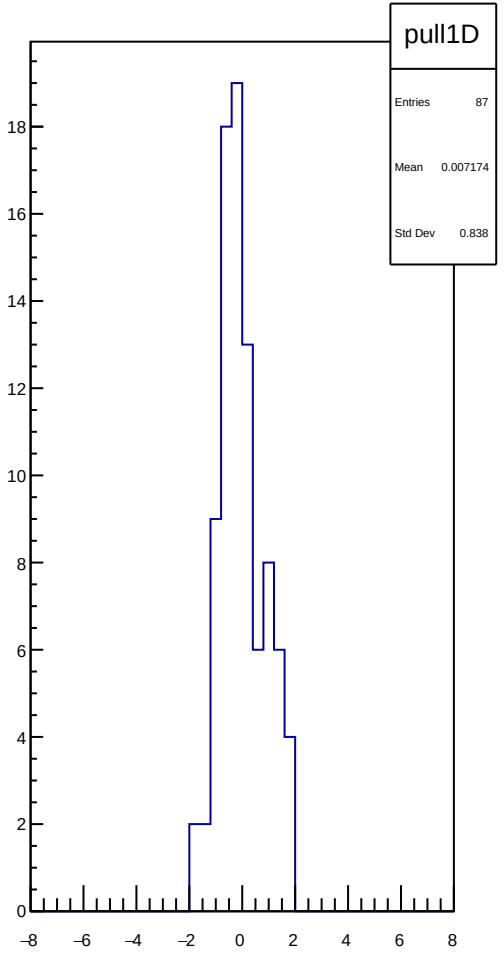

eigen_dit_asym_atl2_rms vs run
χ² / ndf 106.6 / 90
p0 4.775e+04 ± 36.11
49000
48500
48000
47500
47000
46500

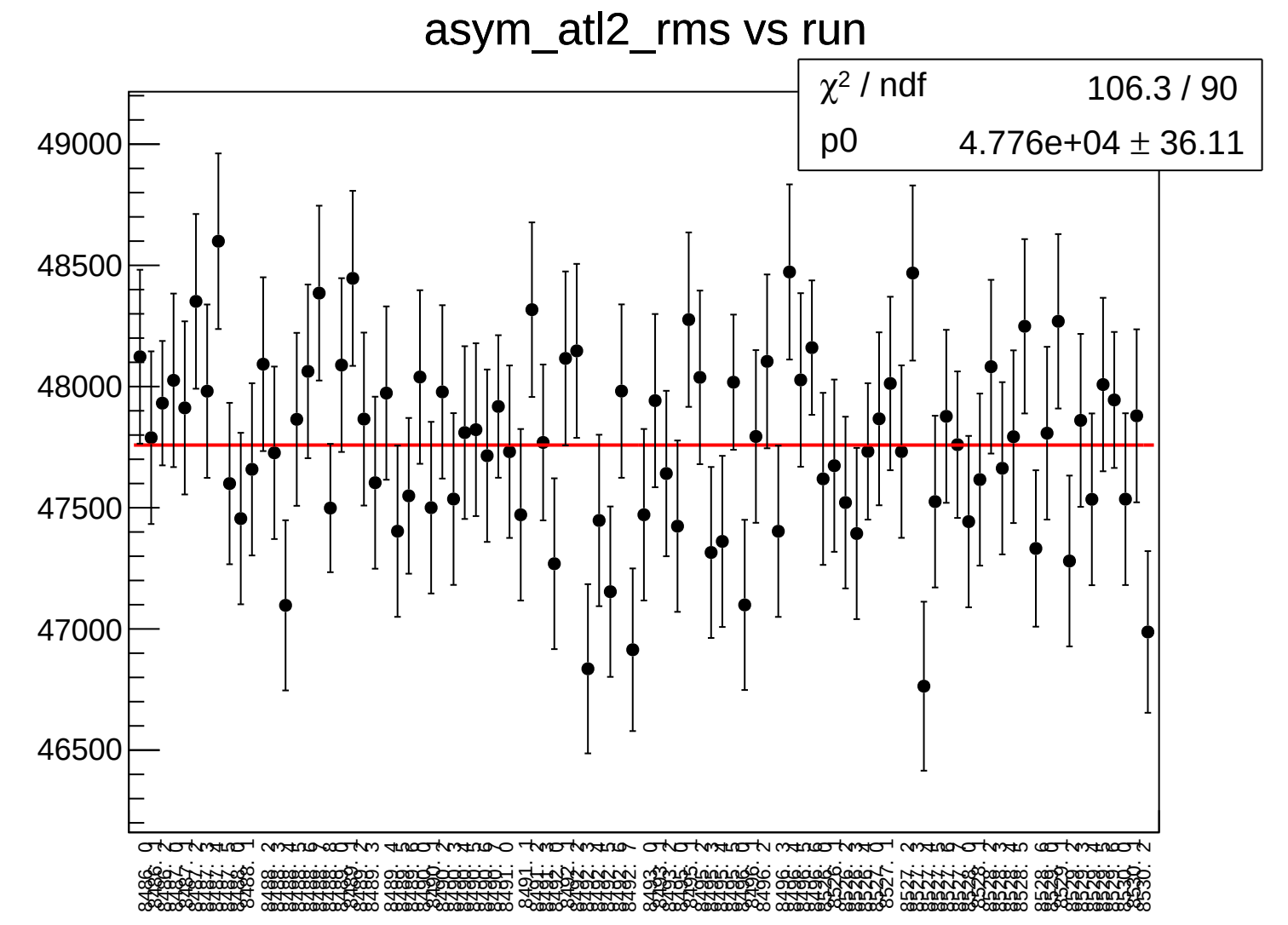

asym_atl2_eigen_dit_correction_mean vs run
χ² / ndf 80.96 / 90
p0 −532.2 ± 857.8
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 58
Std Dev 16.96
3
2
1
0
−1
−2

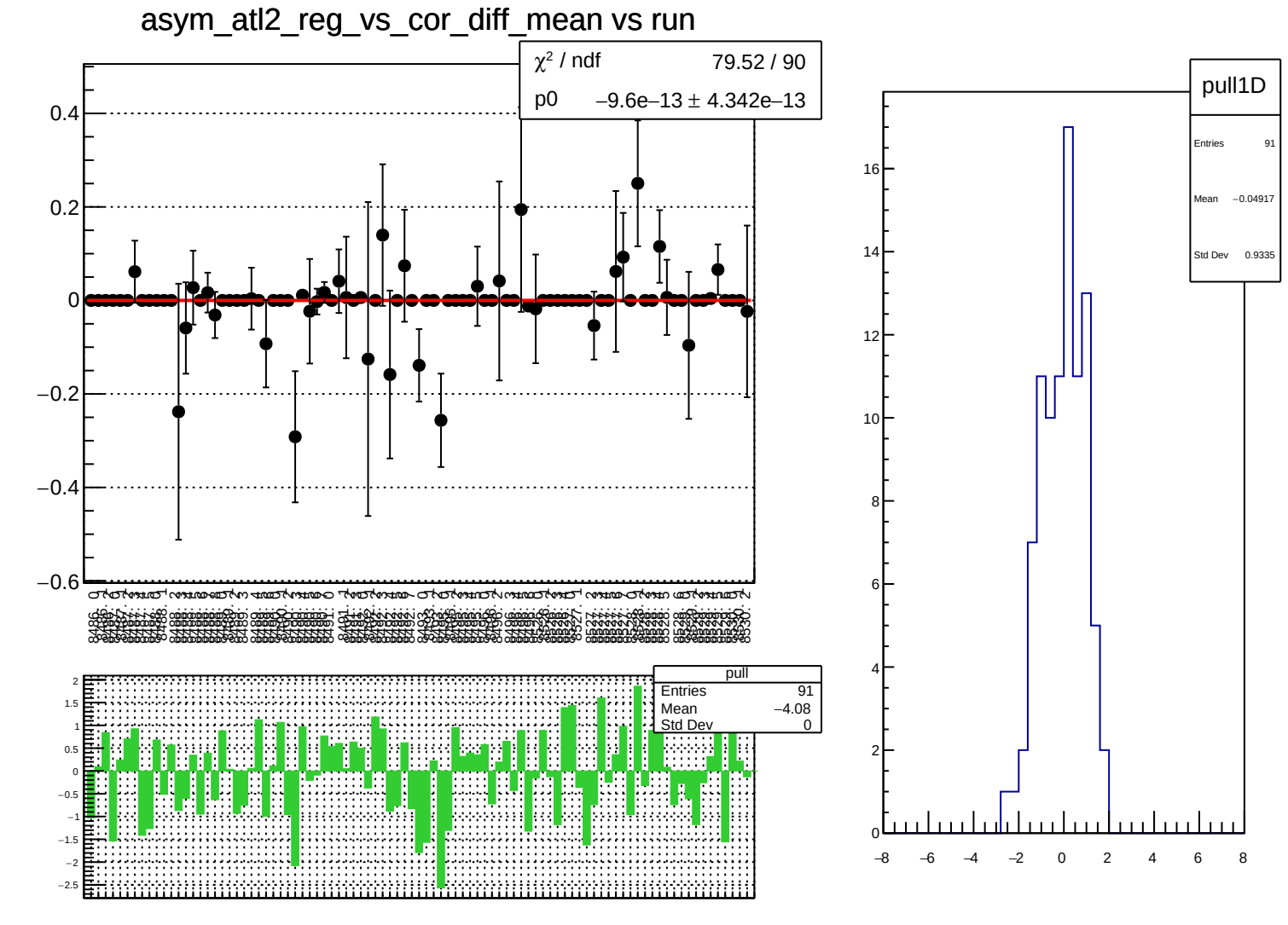

pull1D
Entries 91
Mean 0.03708
Std Dev 0.9425
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

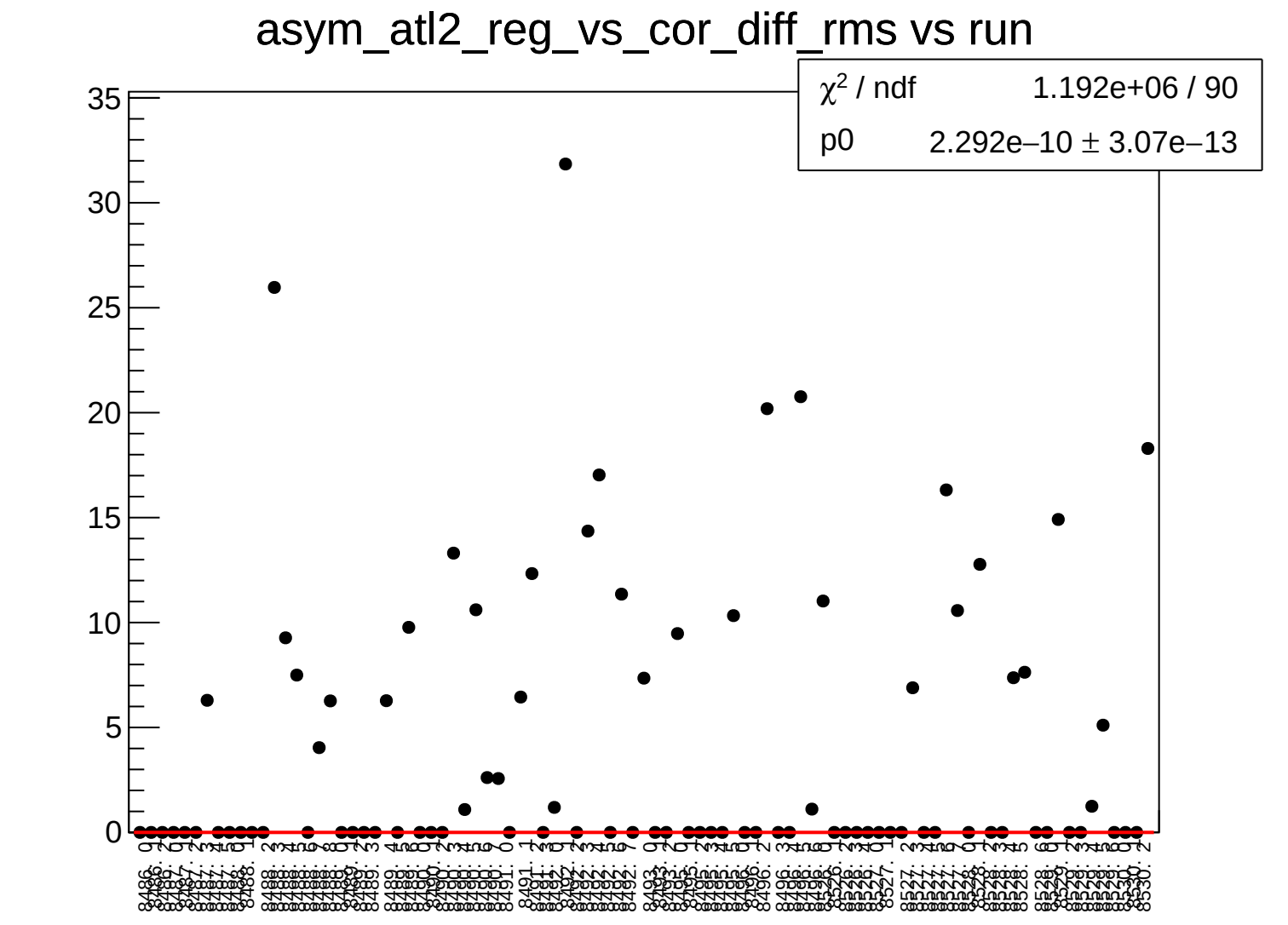

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 3.843e+04 / 90
p0 793.4 ± 0.6066
1000
900
800
700
600

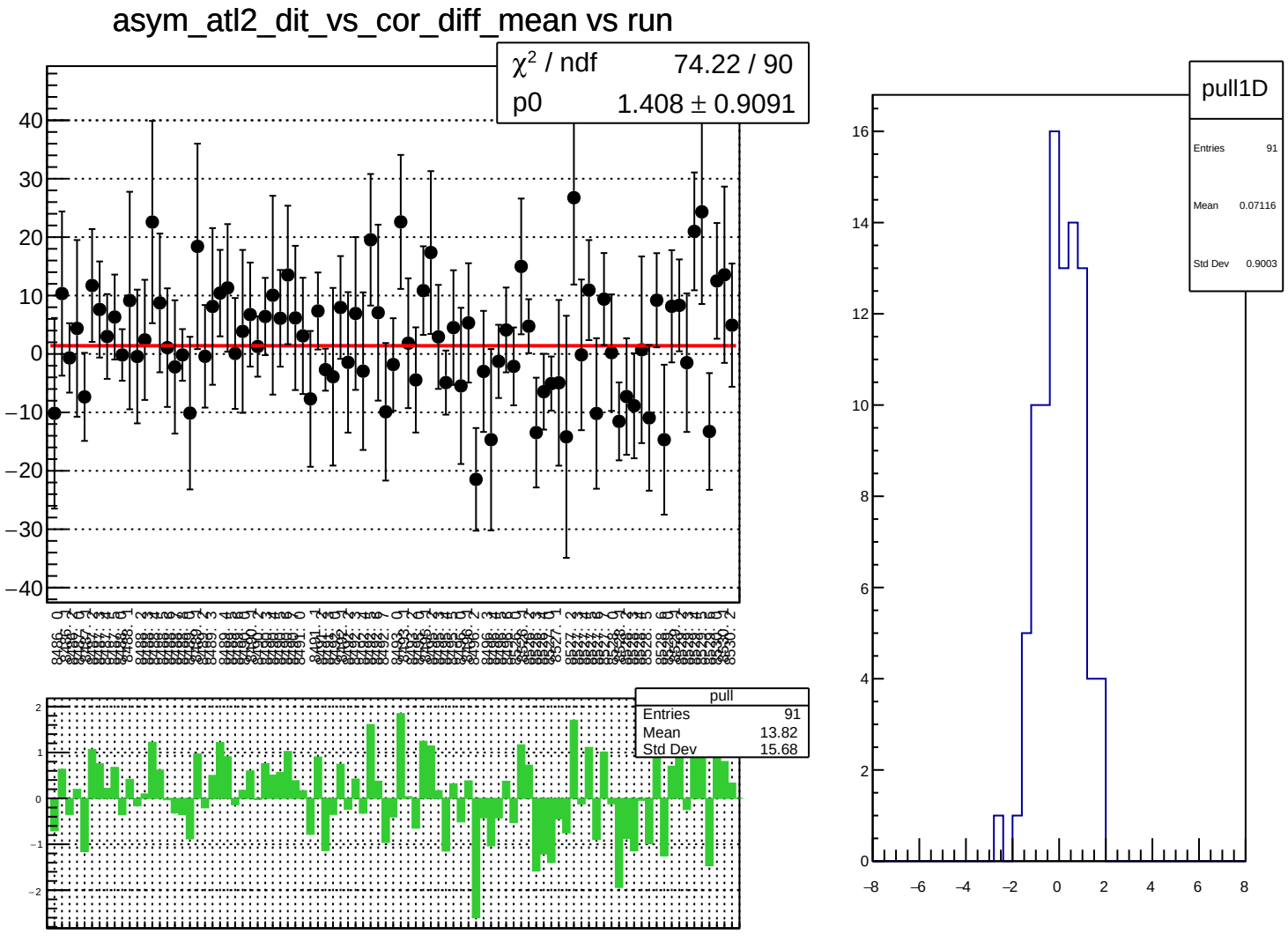

asym_atl2_mean vs run
×10^3
χ² / ndf 61.1 / 86
p0 −3.778e+04 ± 5.216e+04
pull
Entries 87
Mean −935.5
Std Dev 0

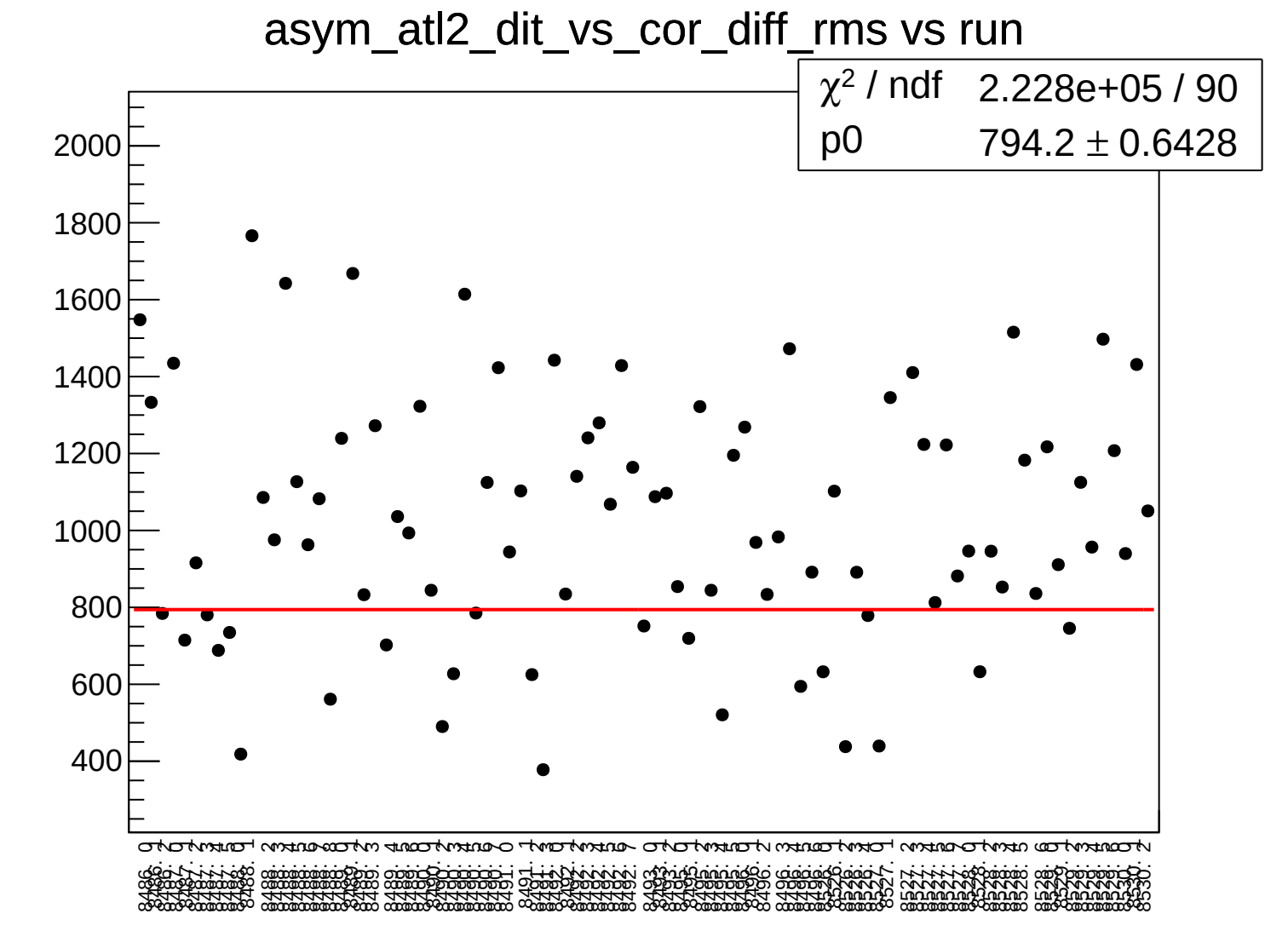

pull1D
Entries 87
Mean 0.007174
Std Dev 0.838

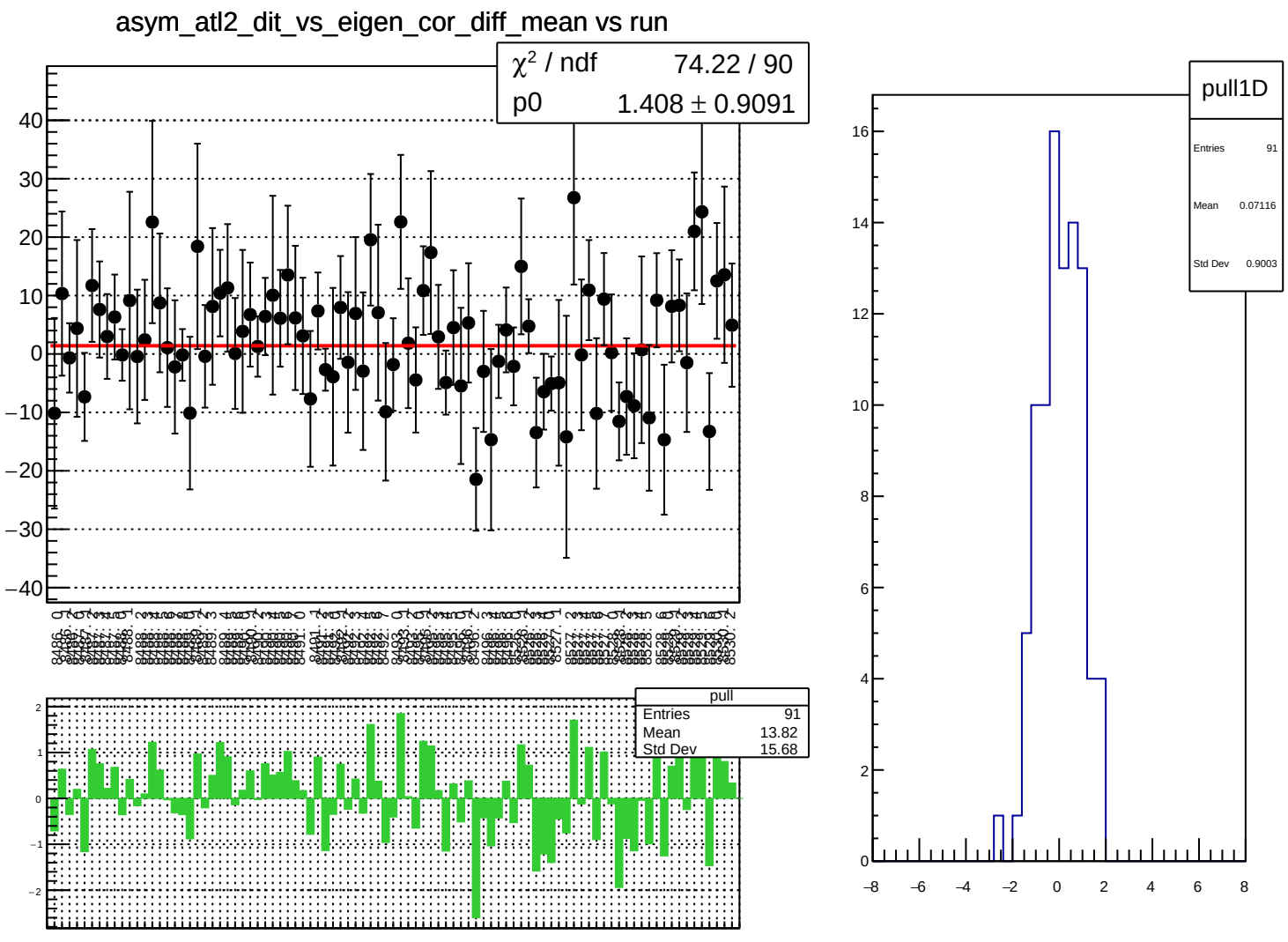

asym_atl2_rms vs run
χ² / ndf 106.3 / 90
p0 4.776e+04 ± 36.11
49000
48500
48000
47500
47000
46500

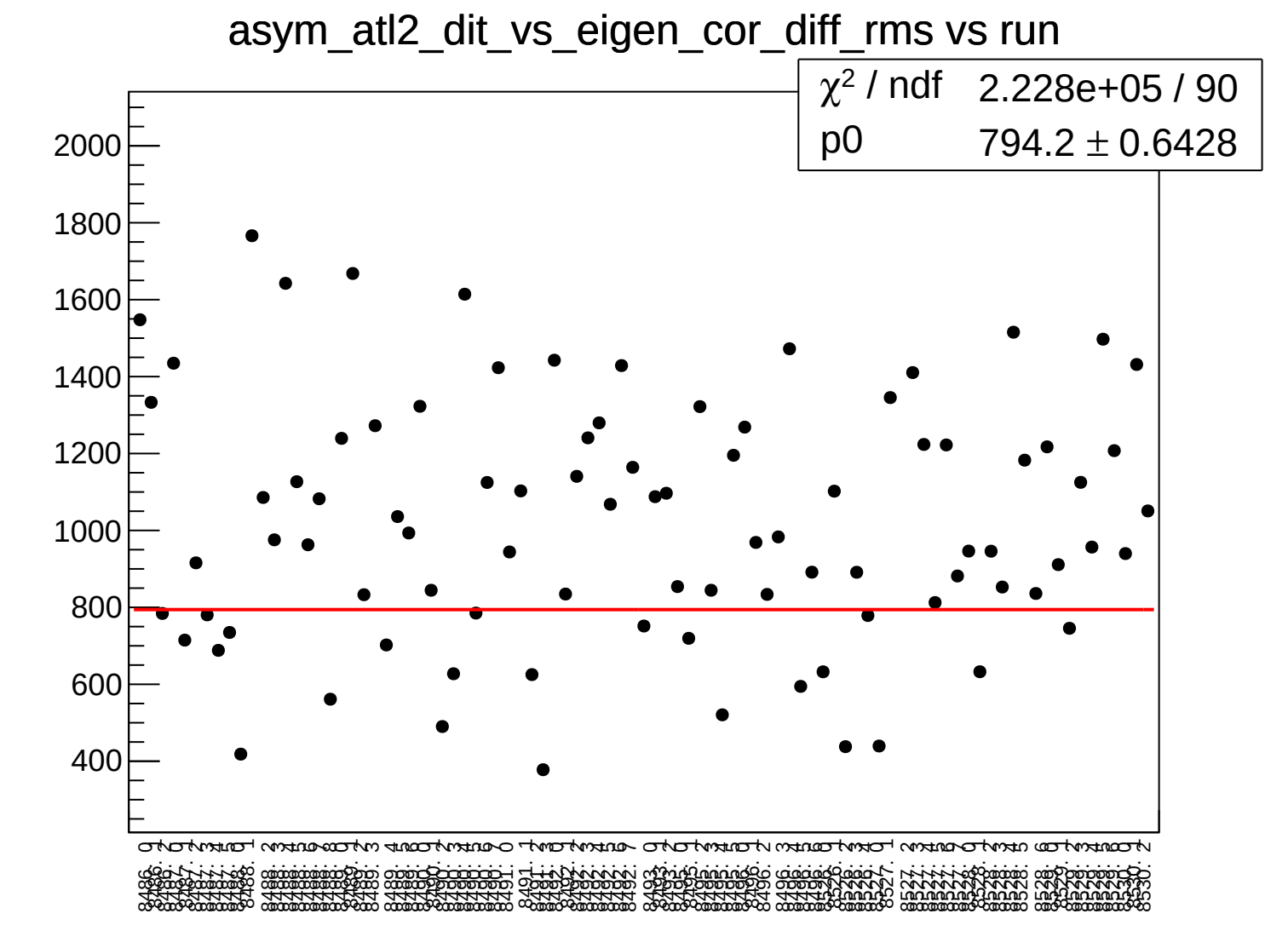

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 79.52 / 90
p0 −9.6e−13 ± 4.342e−13
pull
Entries 91
Mean −4.08
Std Dev 0
pull1D
Entries 91
Mean −0.04917
Std Dev 0.9335

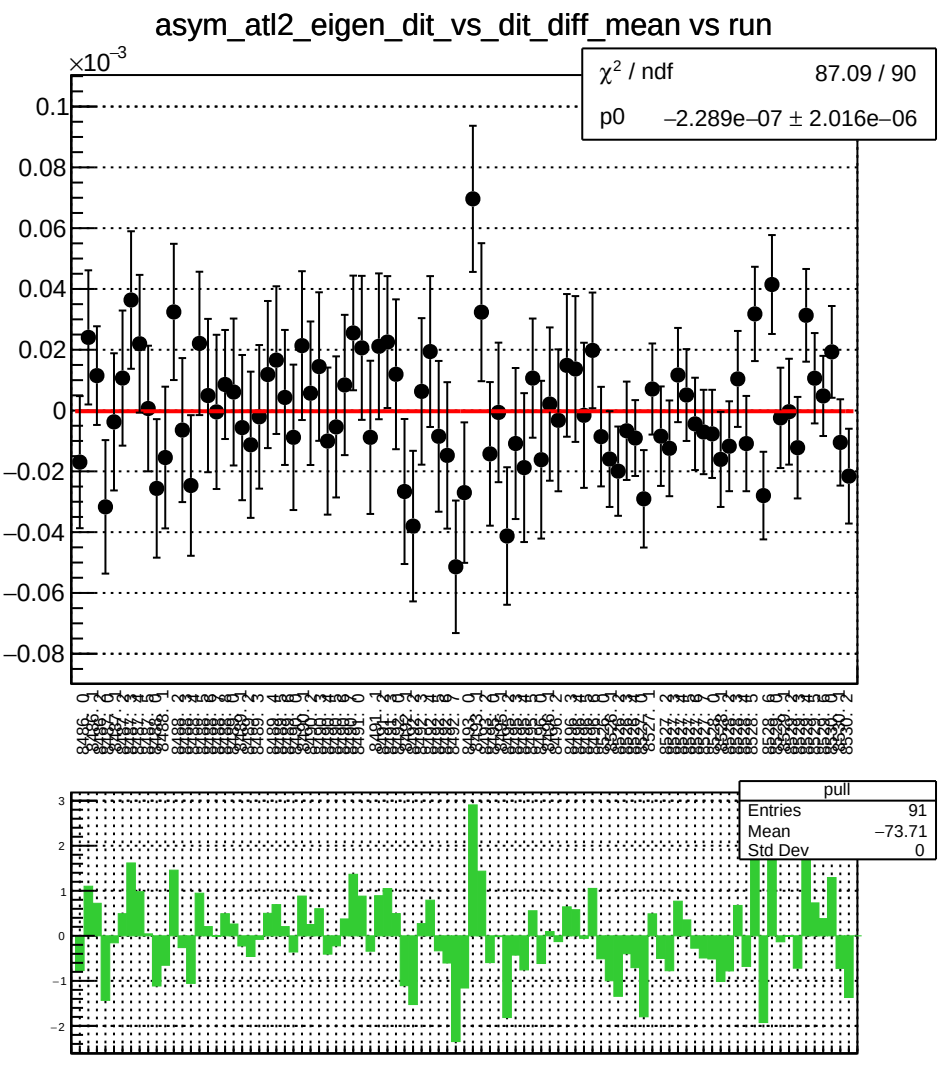

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.192e+06 / 90
p0 2.292e−10 ± 3.07e−13
35
30
25
20
15
10
5
0

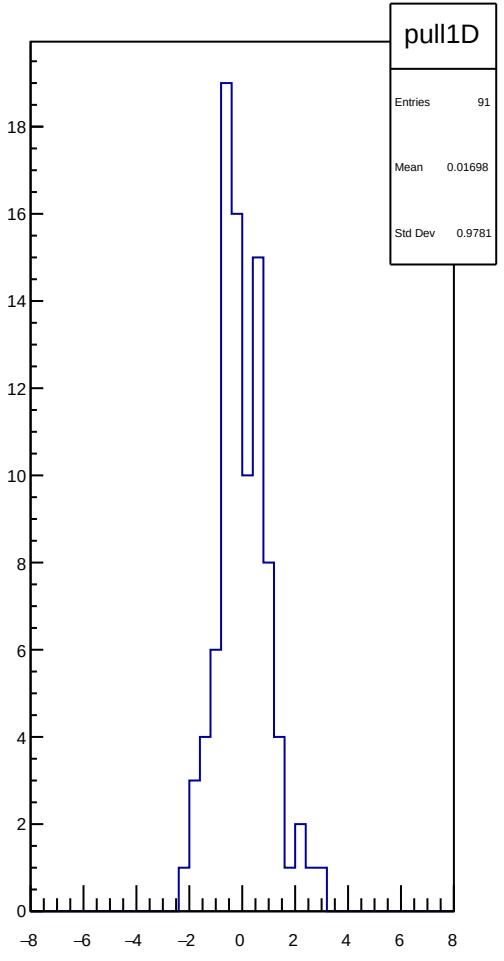

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 74.22 / 90
p0 1.408 ± 0.9091
pull
Entries 91
Mean 13.82
Std Dev 15.68
pull1D
Entries 91
Mean 0.07116
Std Dev 0.9003

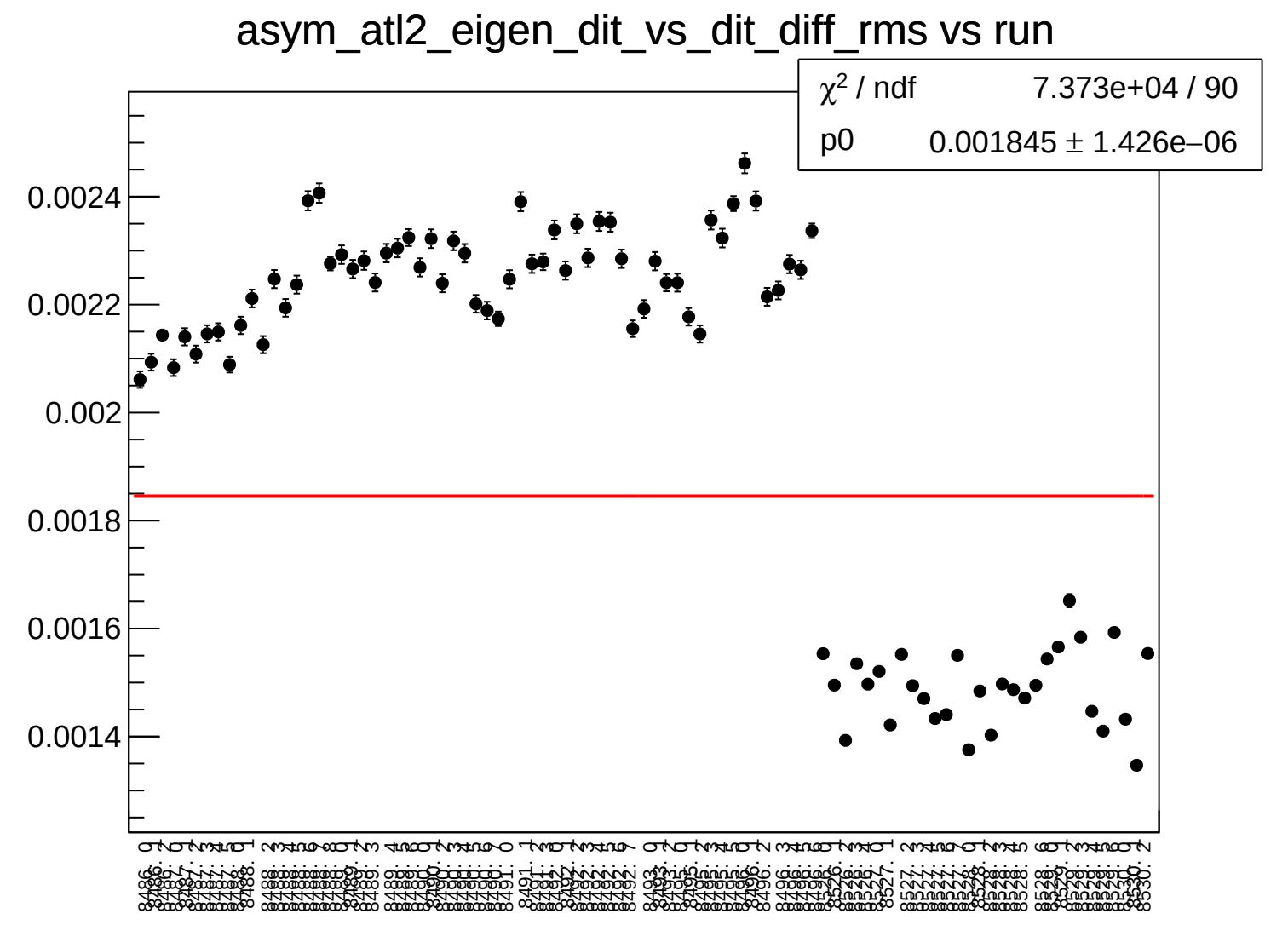

asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 2.228e+05 / 90
p0 794.2 ± 0.6428
2000
1800
1600
1400
1200
1000
800
600
400

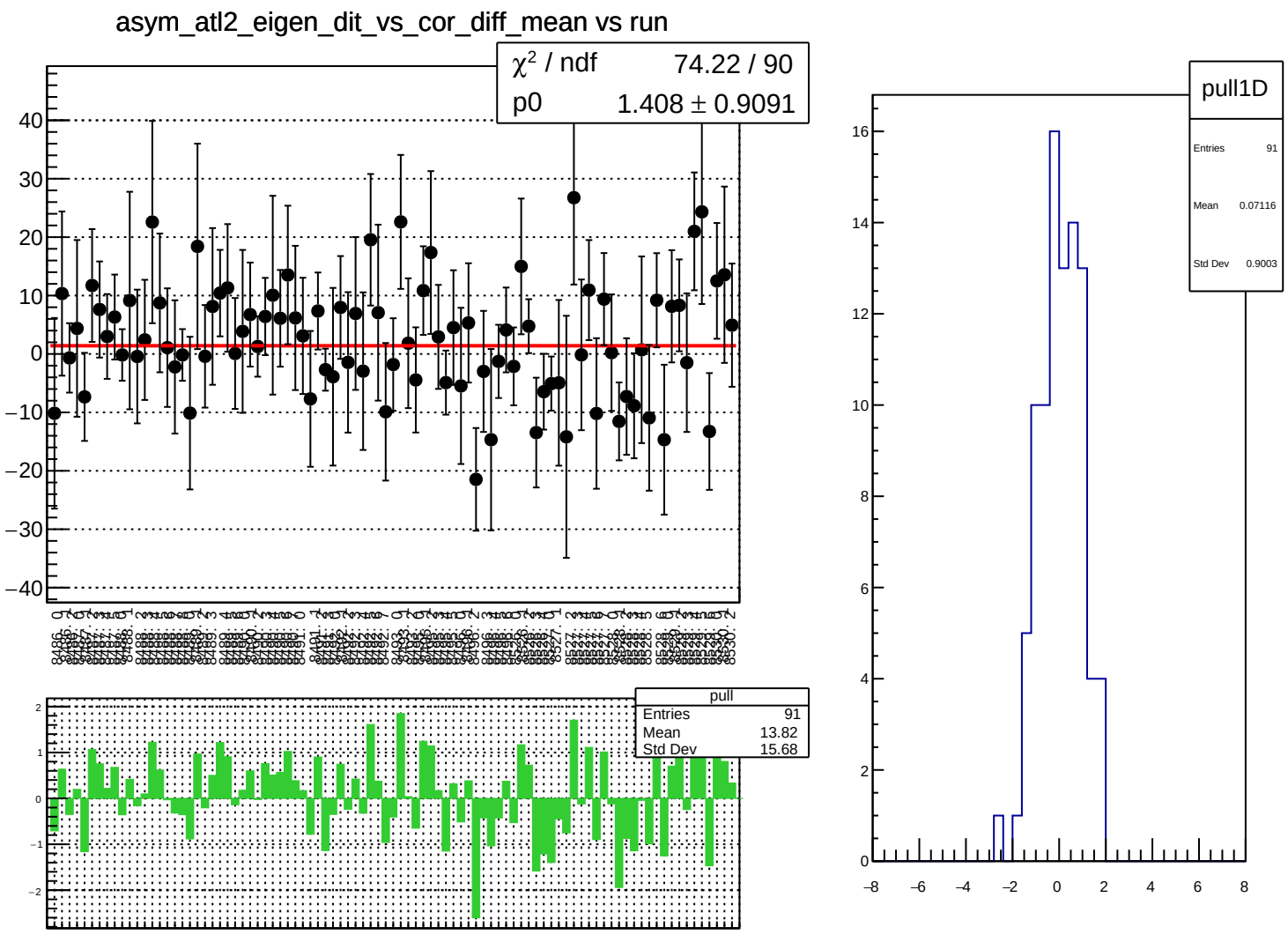

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.22 / 90
p0 1.408 ± 0.9091
pull
Entries 91
Mean 13.82
Std Dev 15.68
pull1D
Entries 91
Mean 0.07116
Std Dev 0.9003

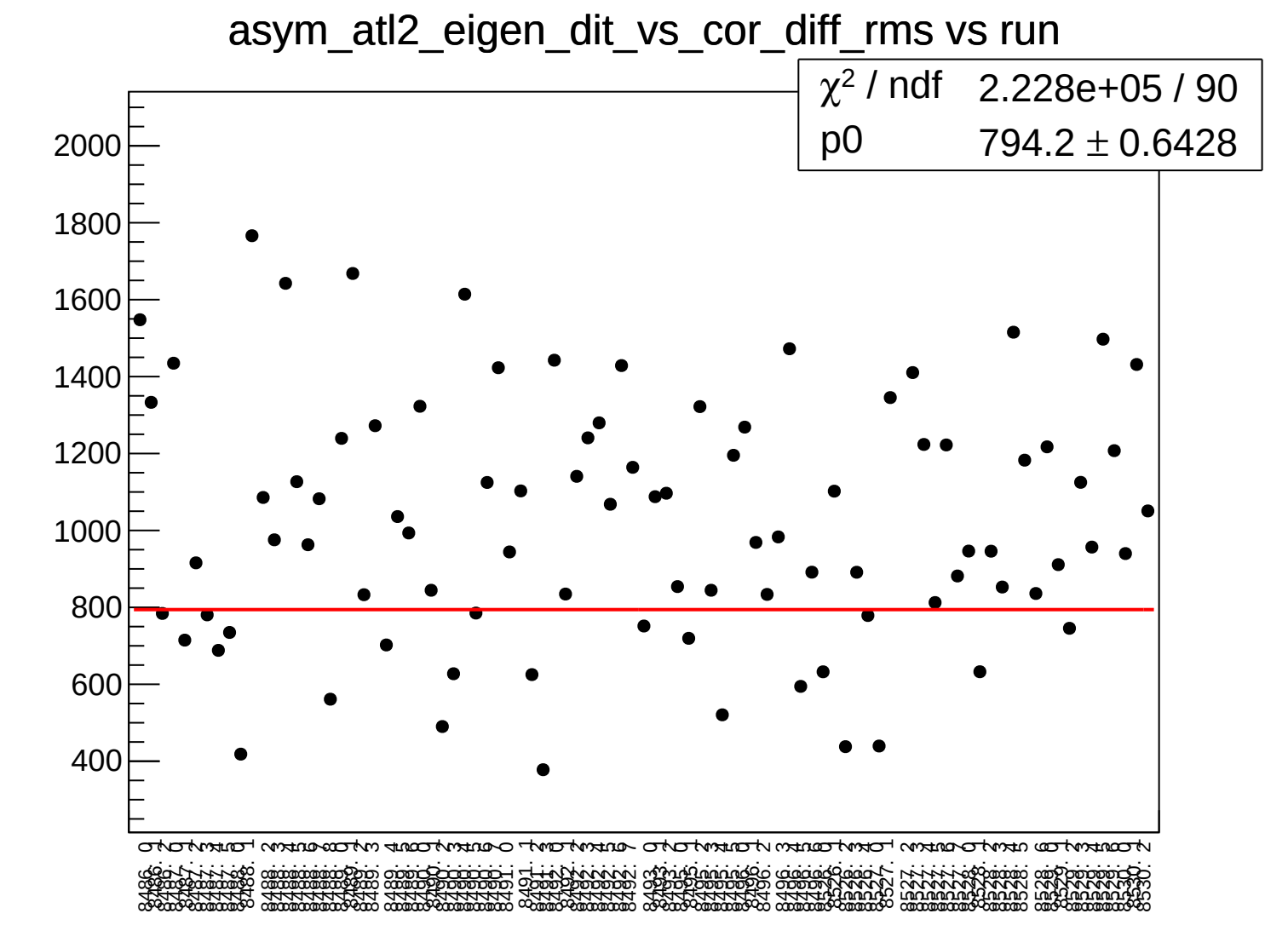

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.228e+05 / 90
p0 794.2 ± 0.6428
2000
1800
1600
1400
1200
1000
800
600
400

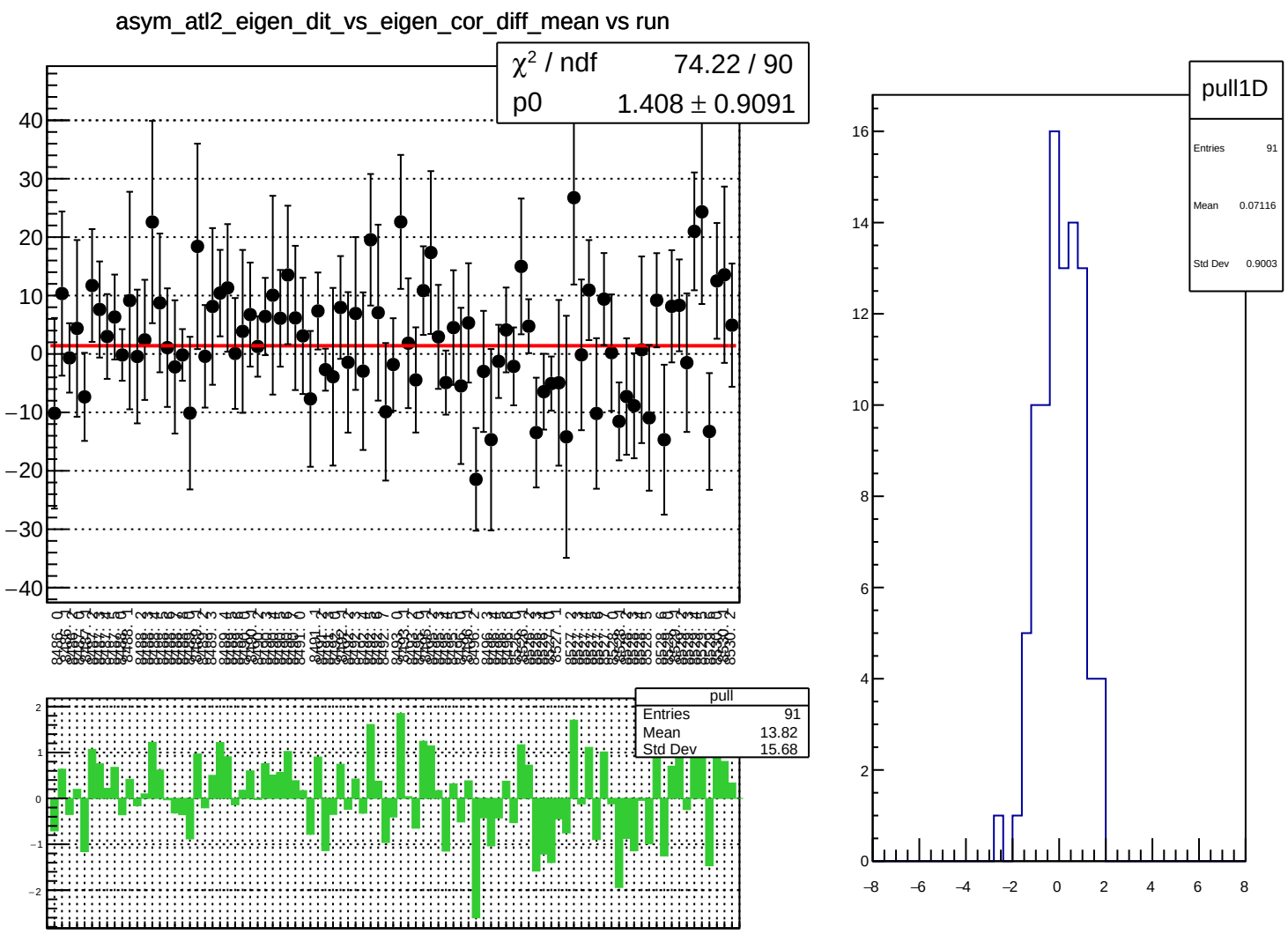

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.09 / 90
p0 −2.289e−07 ± 2.016e−06
pull
Entries 91
Mean −73.71
Std Dev 0

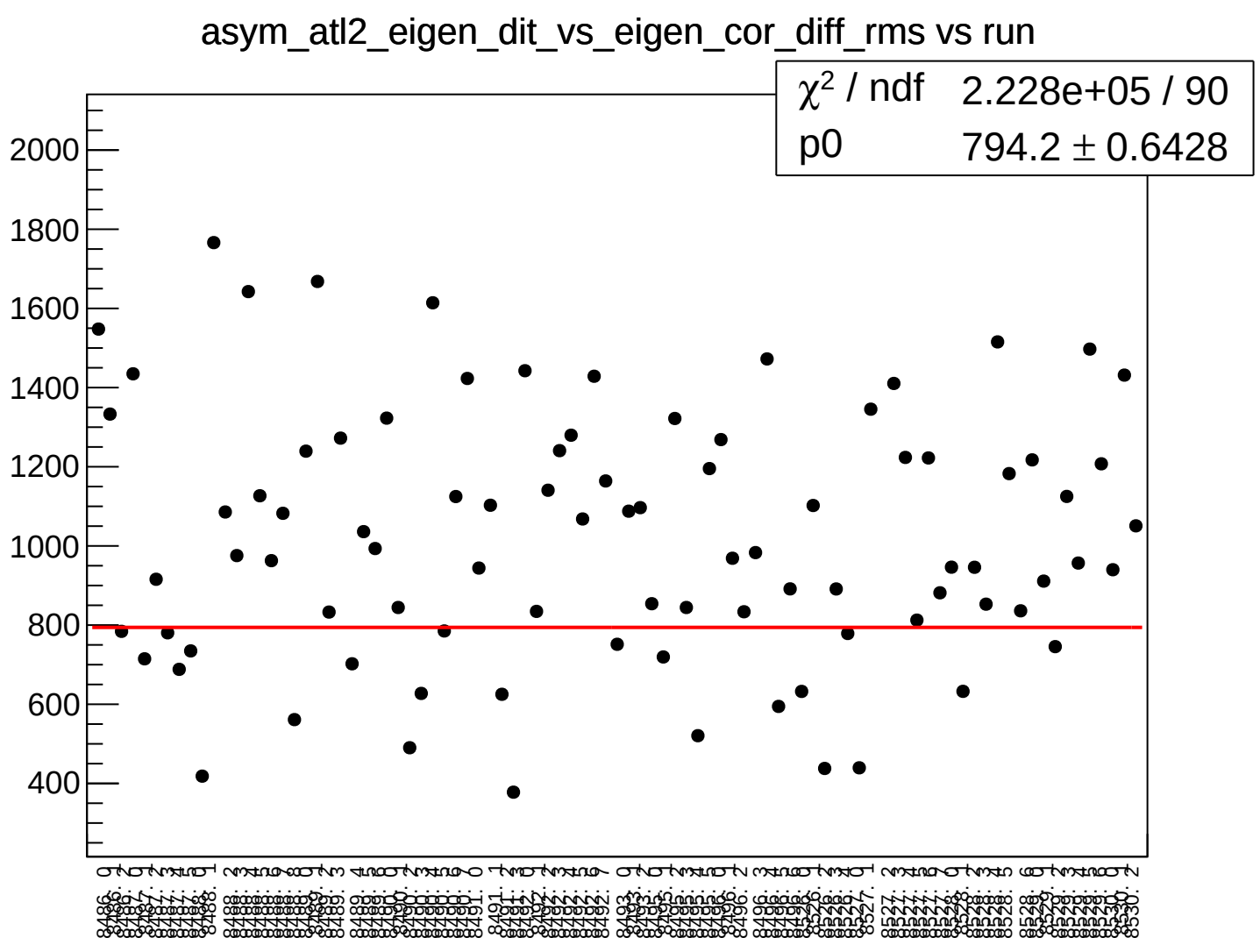

pull1D
Entries 91
Mean 0.01698
Std Dev 0.9781

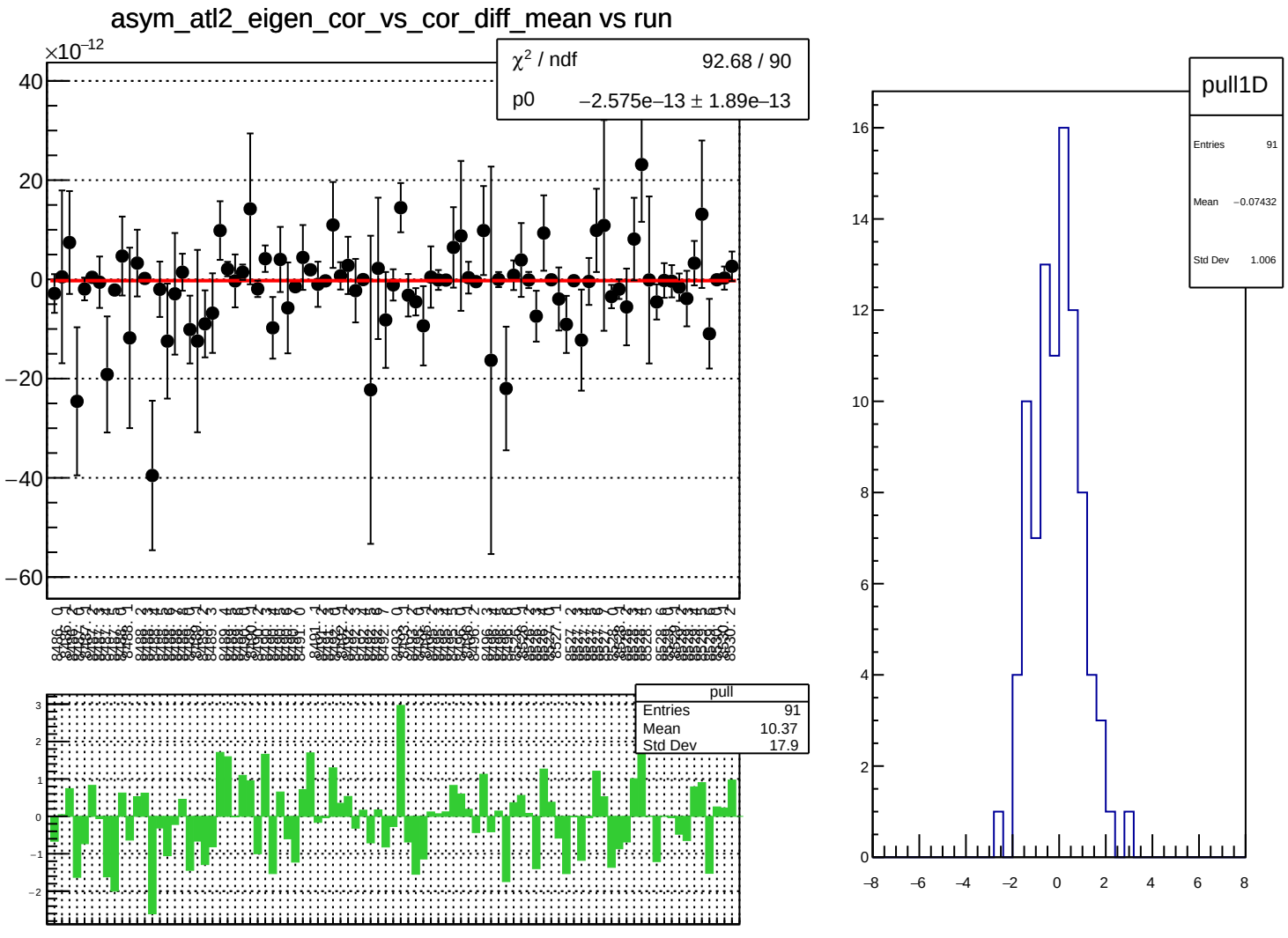

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.373e+04 / 90
p0 0.001845 ± 1.426e−06
0.0024
0.0022
0.002
0.0018
0.0016
0.0014

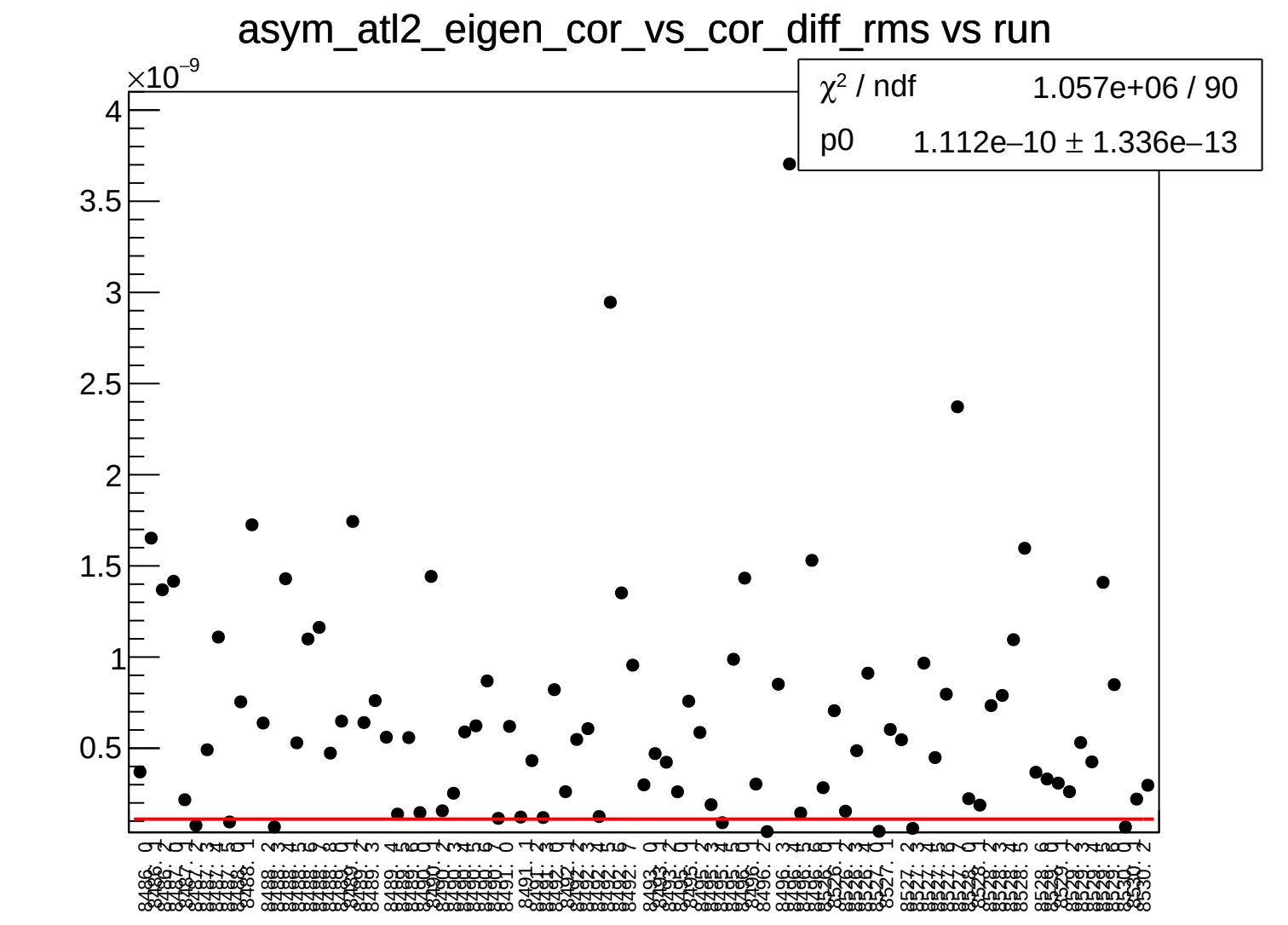

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.22 / 90
p0 1.408 ± 0.9091
pull
Entries 91
Mean 13.82
Std Dev 15.68
pull1D
Entries 91
Mean 0.07116
Std Dev 0.9003

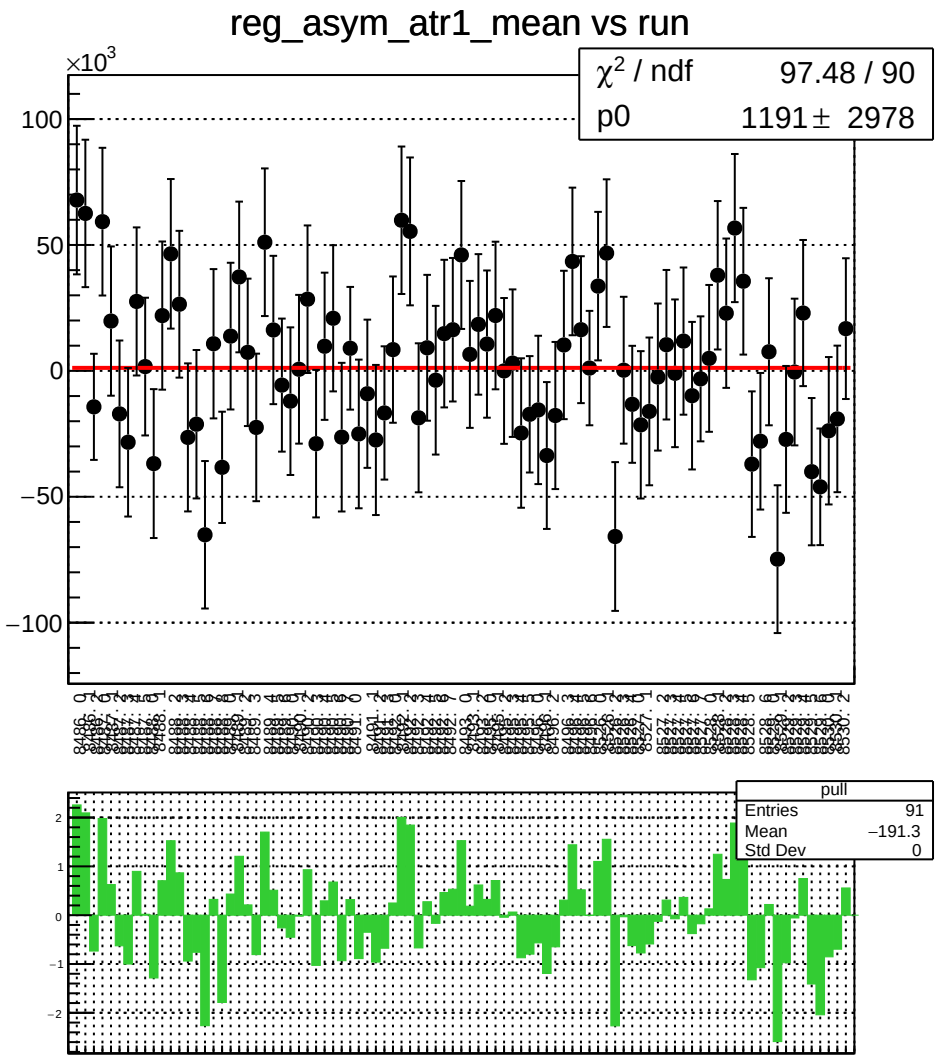

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.228e+05 / 90
p0 794.2 ± 0.6428
2000
1800
1600
1400
1200
1000
800
600
400

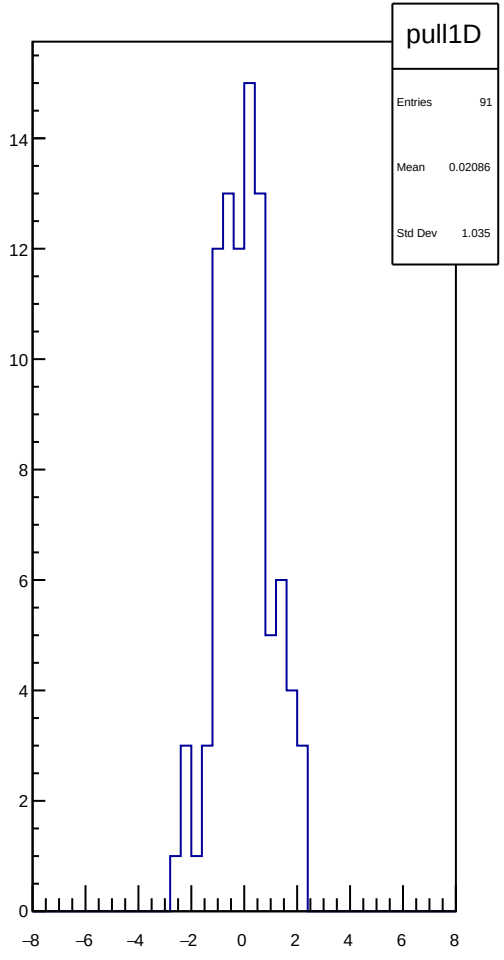

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.22 / 90
p0 1.408 ± 0.9091
pull
Entries 91
Mean 13.82
Std Dev 15.68
pull1D
Entries 91
Mean 0.07116
Std Dev 0.9003

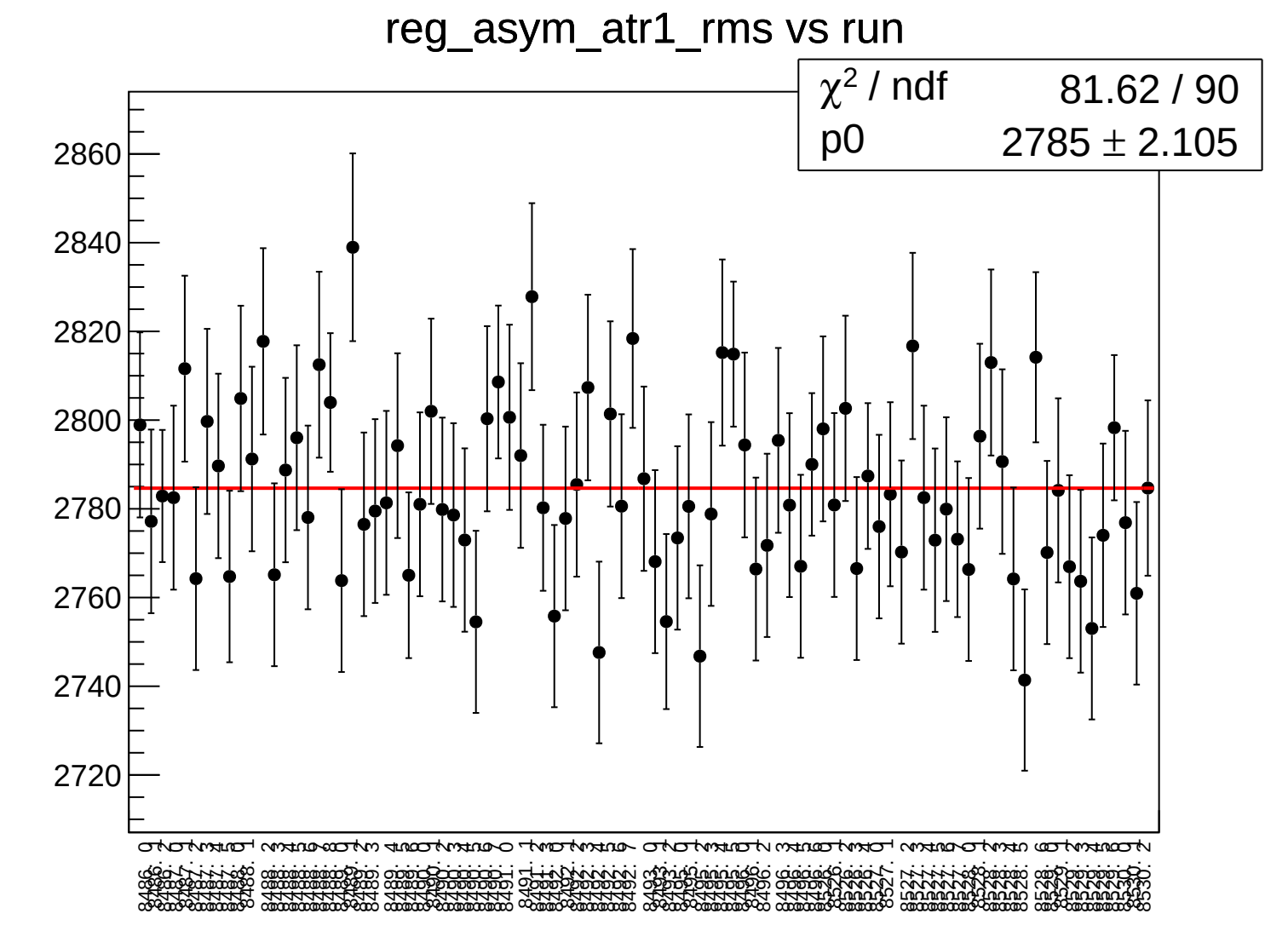

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.228e+05 / 90
p0 794.2 ± 0.6428
2000
1800
1600
1400
1200
1000
800
600
400

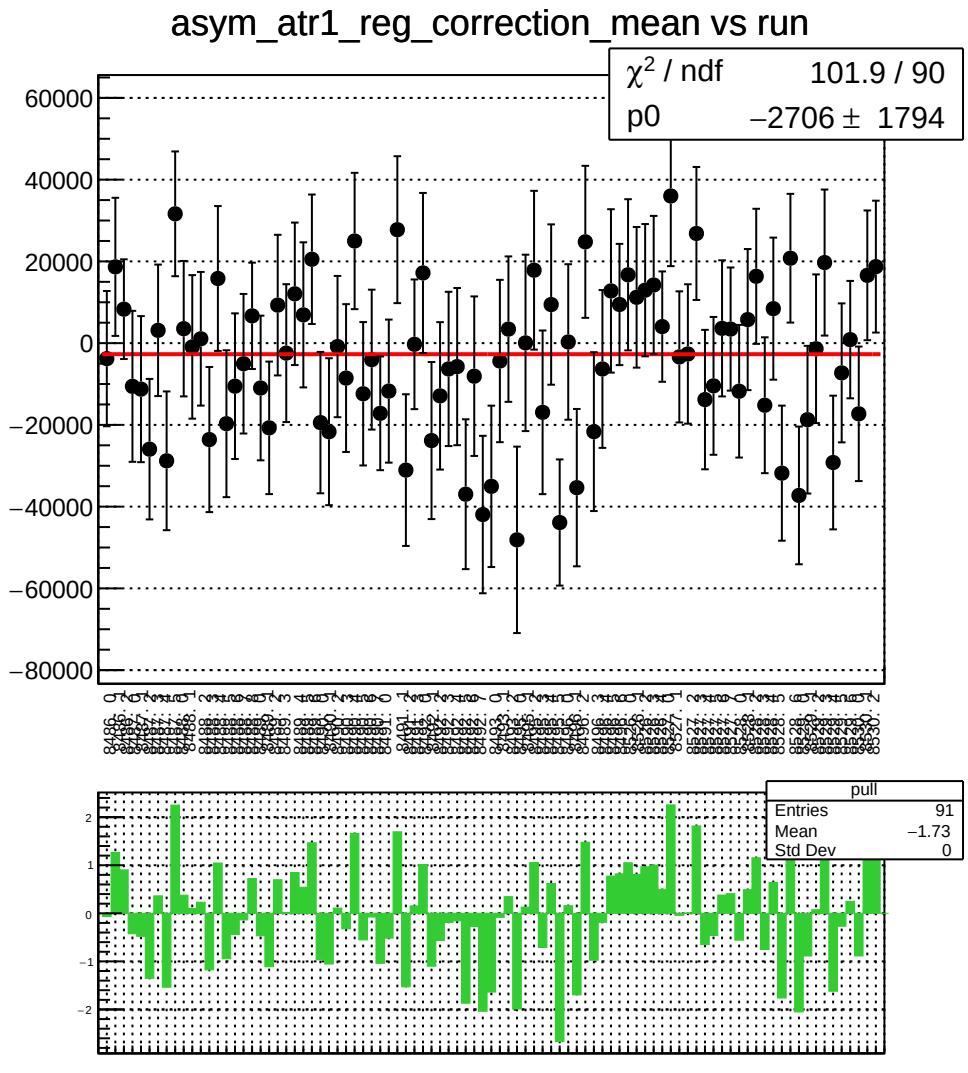

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.68 / 90
p0 −2.575e−13 ± 1.89e−13
pull
Entries 91
Mean 10.37
Std Dev 17.9
pull1D
Entries 91
Mean −0.07432
Std Dev 1.006

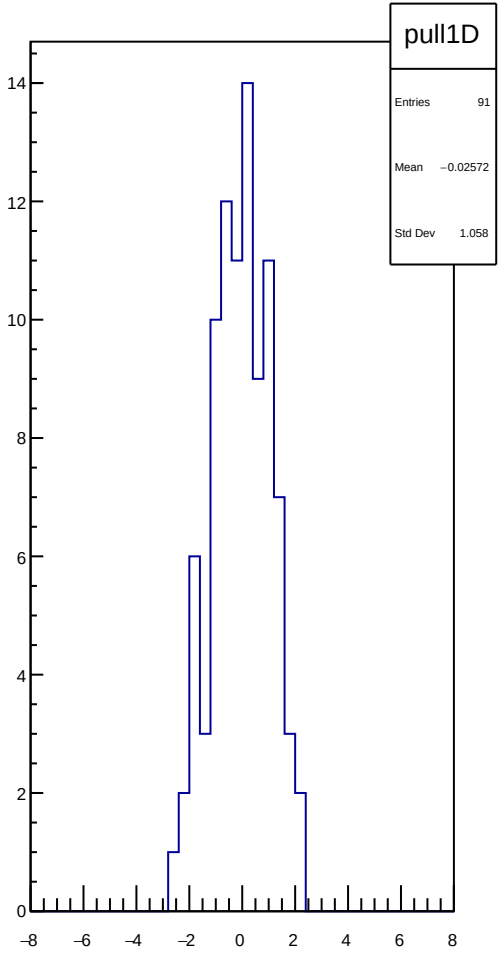

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.057e+06 / 90
p0 1.112e−10 ± 1.336e−13
4
3.5
3
2.5
2
1.5
1
0.5

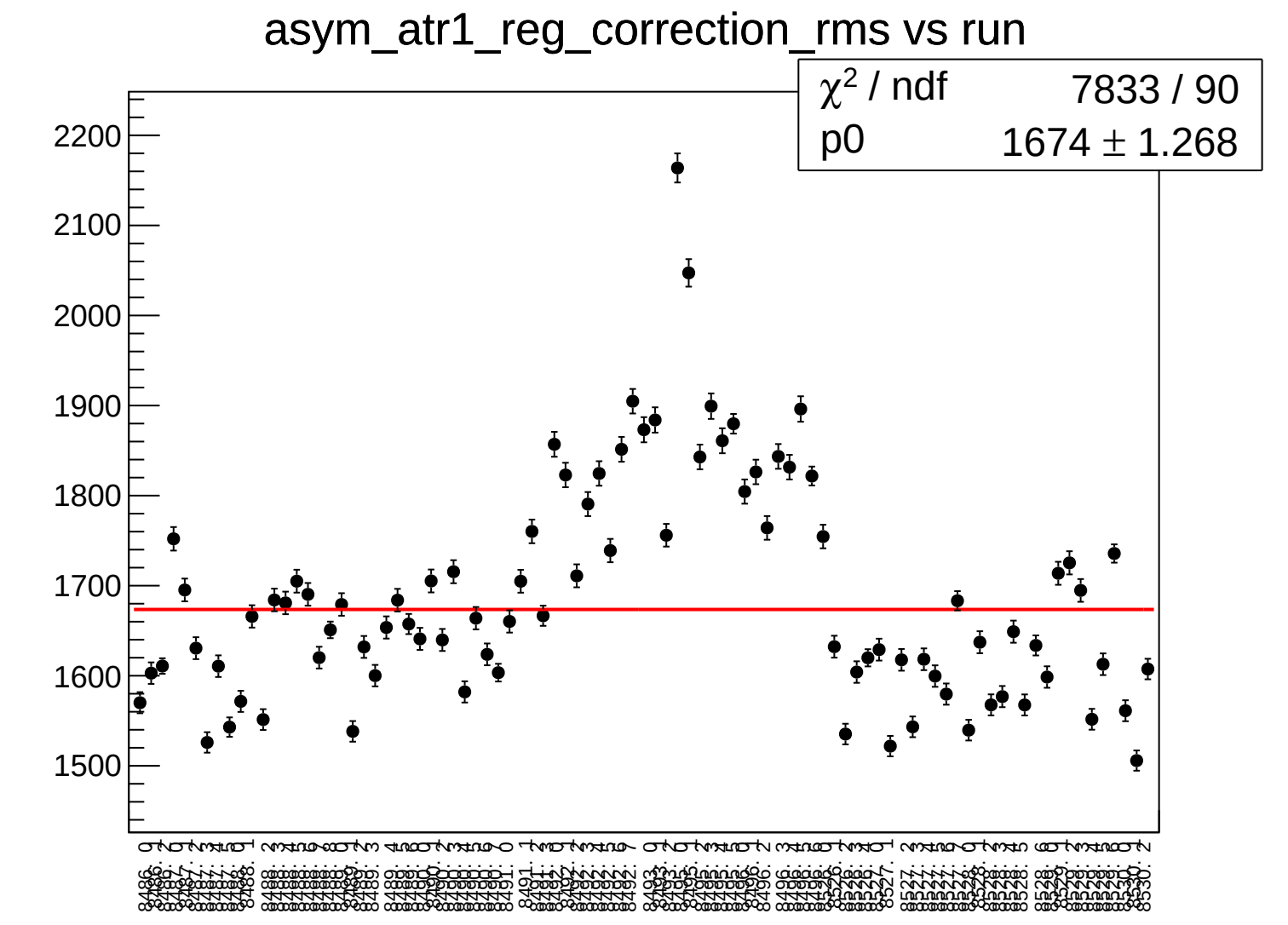

reg_asym_atr1_mean vs run
×10^3
χ^2 / ndf 97.48 / 90
p0 1191 ± 2978
100
50
0
−50
−100
pull
Entries 91
Mean −191.3
Std Dev 0
2
1
0
−1
−2

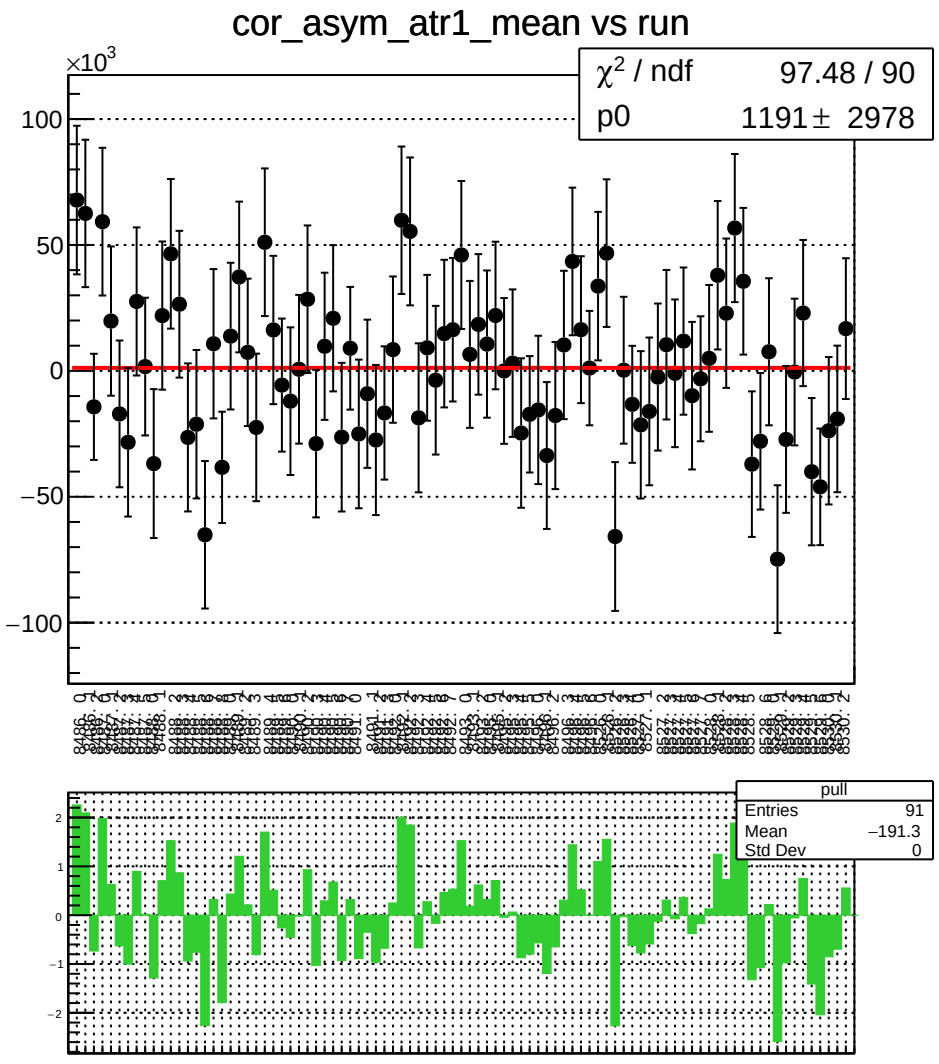

pull1D
Entries 91
Mean 0.02086
Std Dev 1.035
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

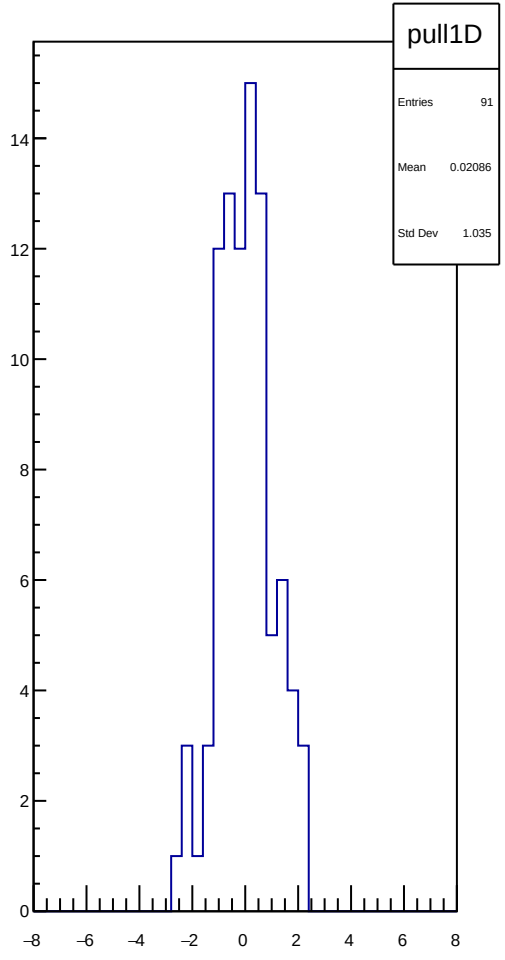

reg_asym_atr1_rms vs run
χ^2 / ndf 81.62 / 90
p0 2785 ± 2.105
2860
2840
2820
2800
2780
2760
2740
2720

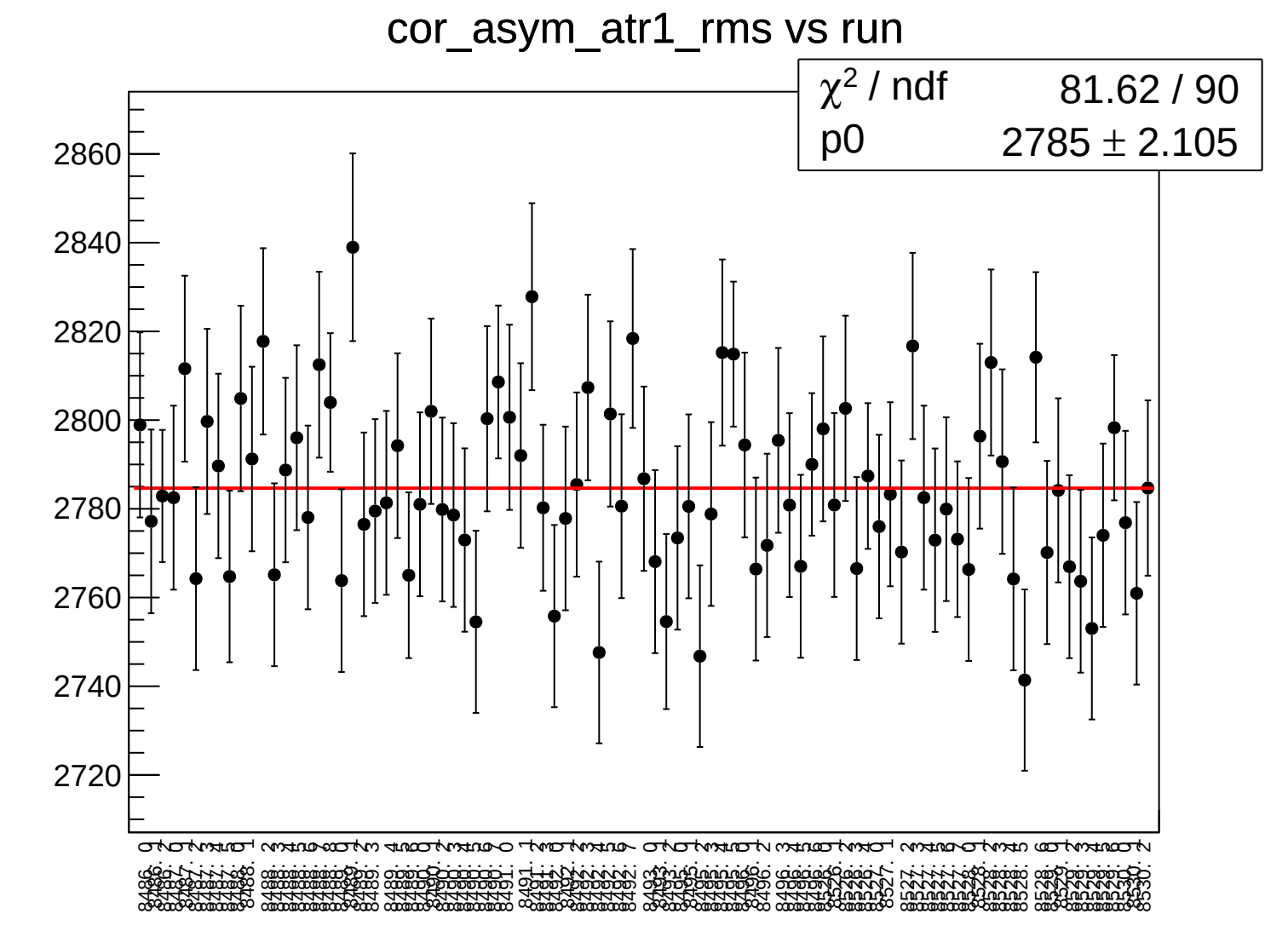

asym_atr1_reg_correction_mean vs run
χ² / ndf 101.9 / 90
p0 −2706 ± 1794
pull
Entries 91
Mean −1.73
Std Dev 0

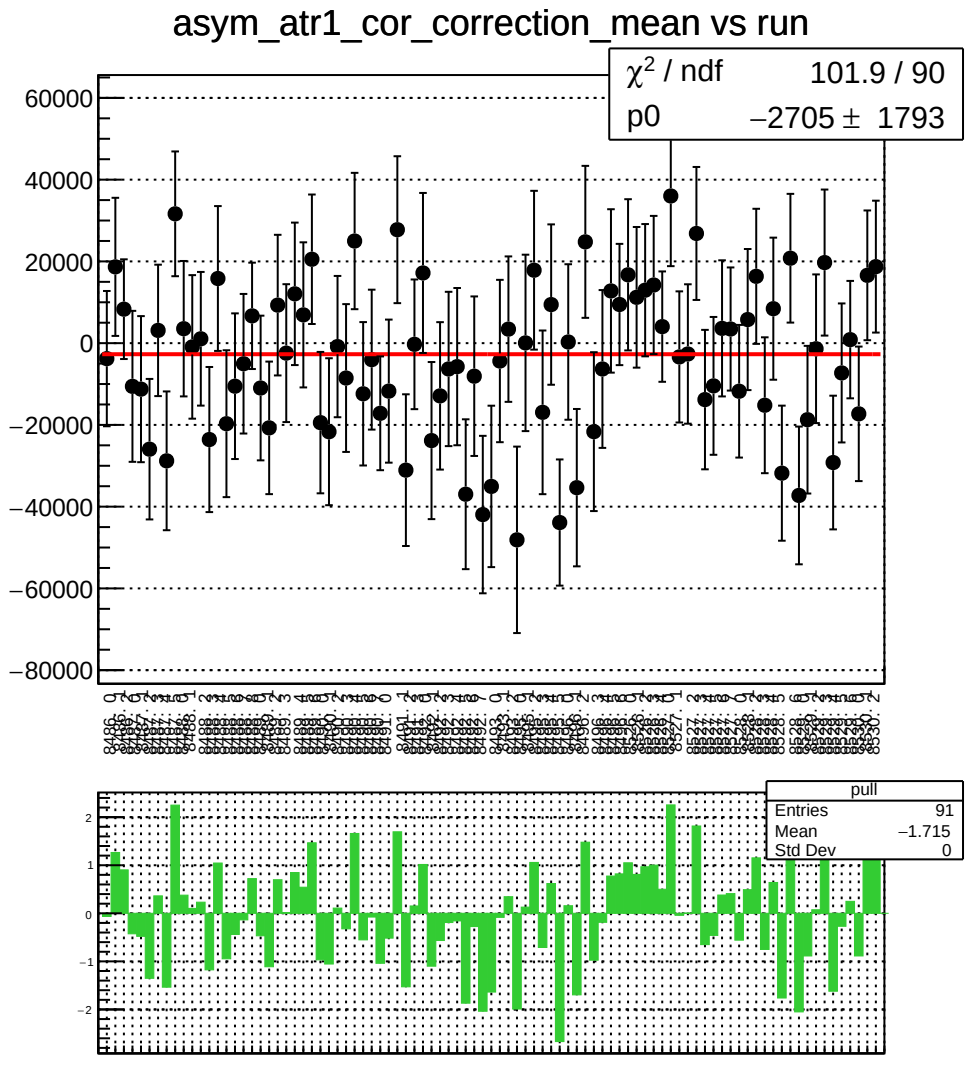

pull1D
Entries 91
Mean −0.02572
Std Dev 1.058

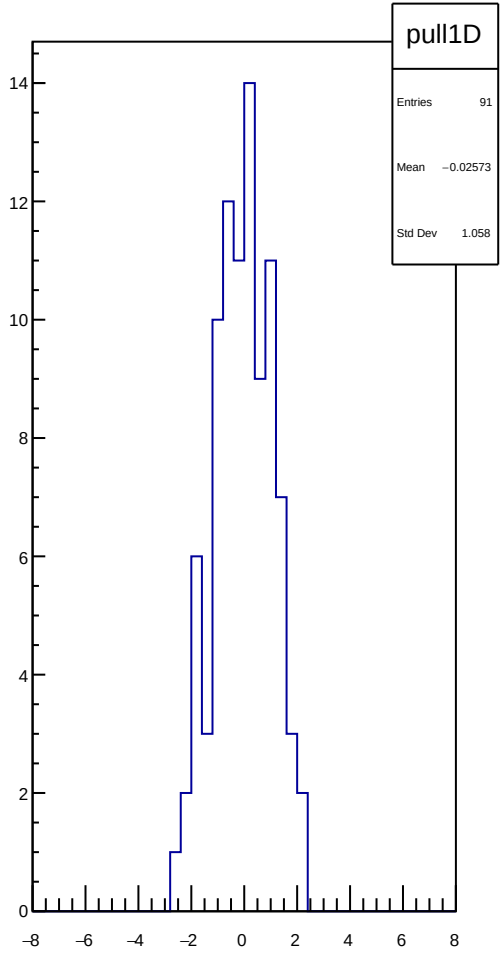

asym_atr1_reg_correction_rms vs run
χ² / ndf 7833 / 90
p0 1674 ± 1.268
2200
2100
2000
1900
1800
1700
1600
1500

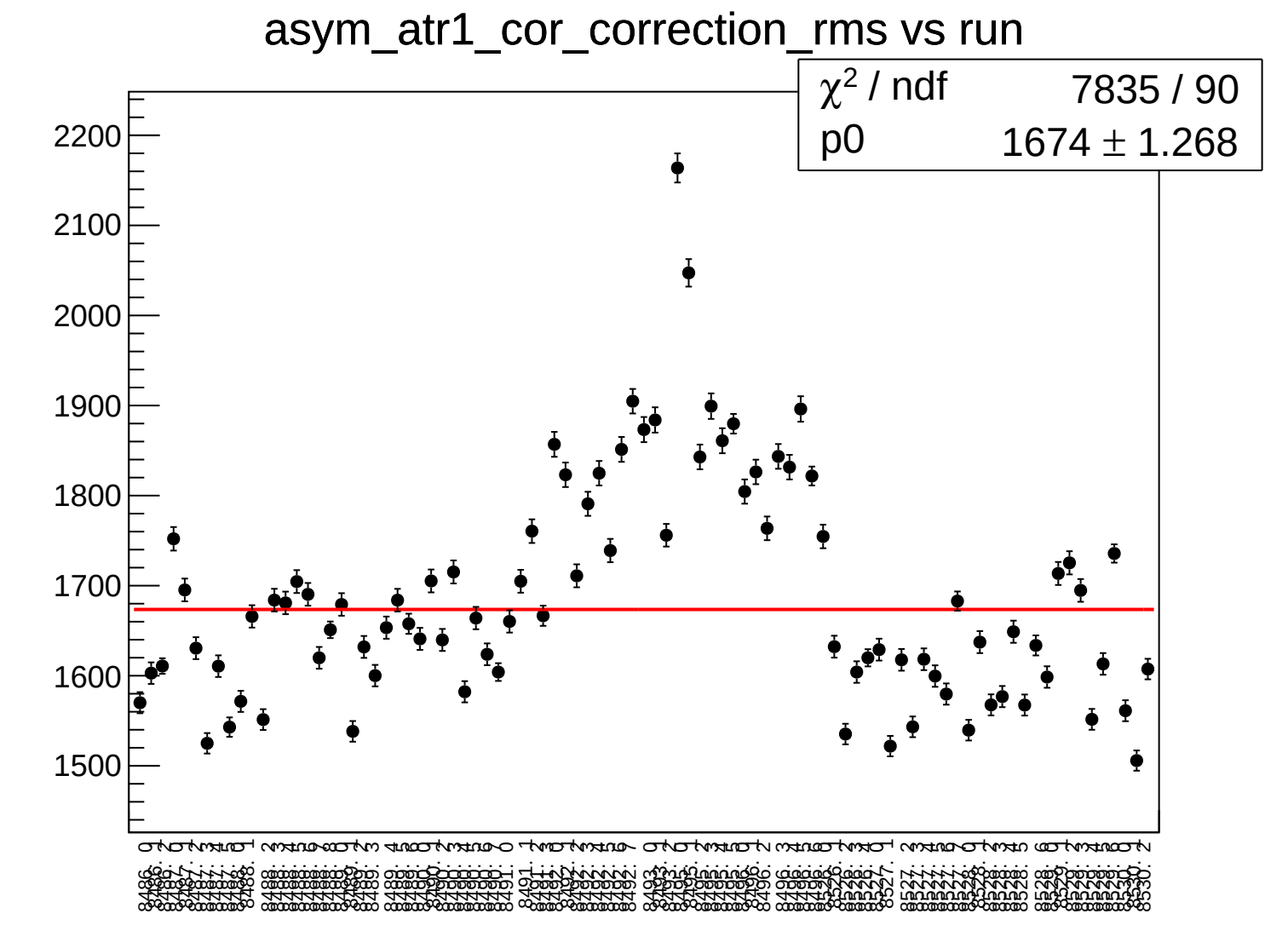

cor_asym_atr1_mean vs run
×10^3
χ² / ndf 97.48 / 90
p0 1191 ± 2978
100
50
0
−50
−100
pull
Entries 91
Mean −191.3
Std Dev 0
2
1
0
−1
−2

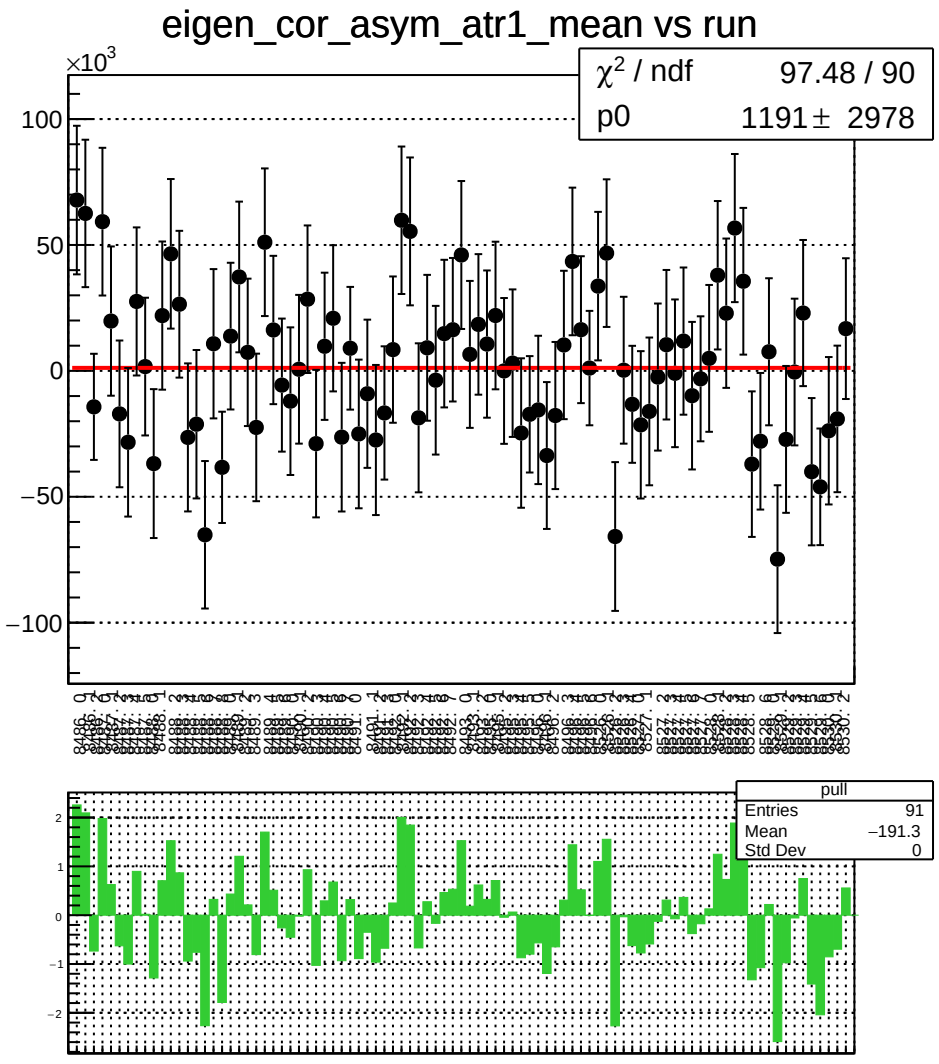

pull1D
Entries 91
Mean 0.02086
Std Dev 1.035
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

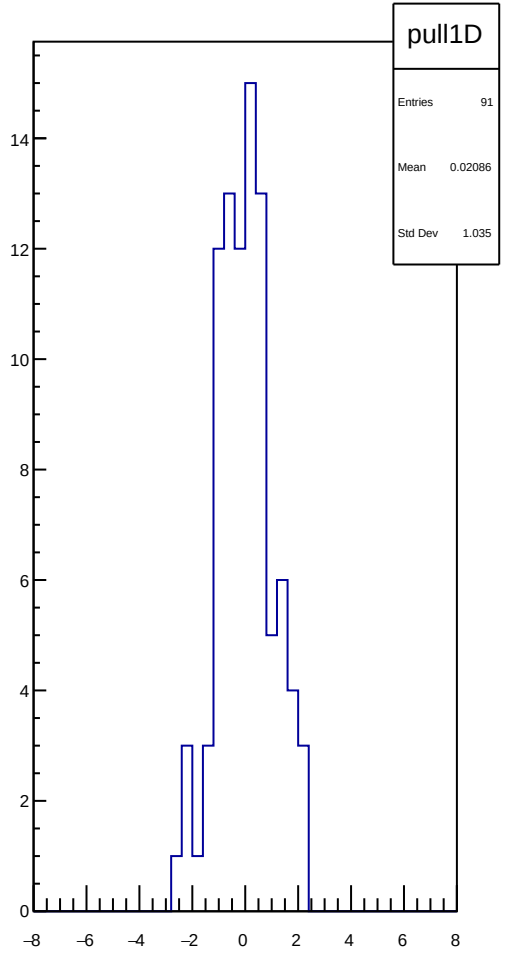

cor_asym_atr1_rms vs run
χ² / ndf 81.62 / 90
p0 2785 ± 2.105
2860
2840
2820
2800
2780
2760
2740
2720

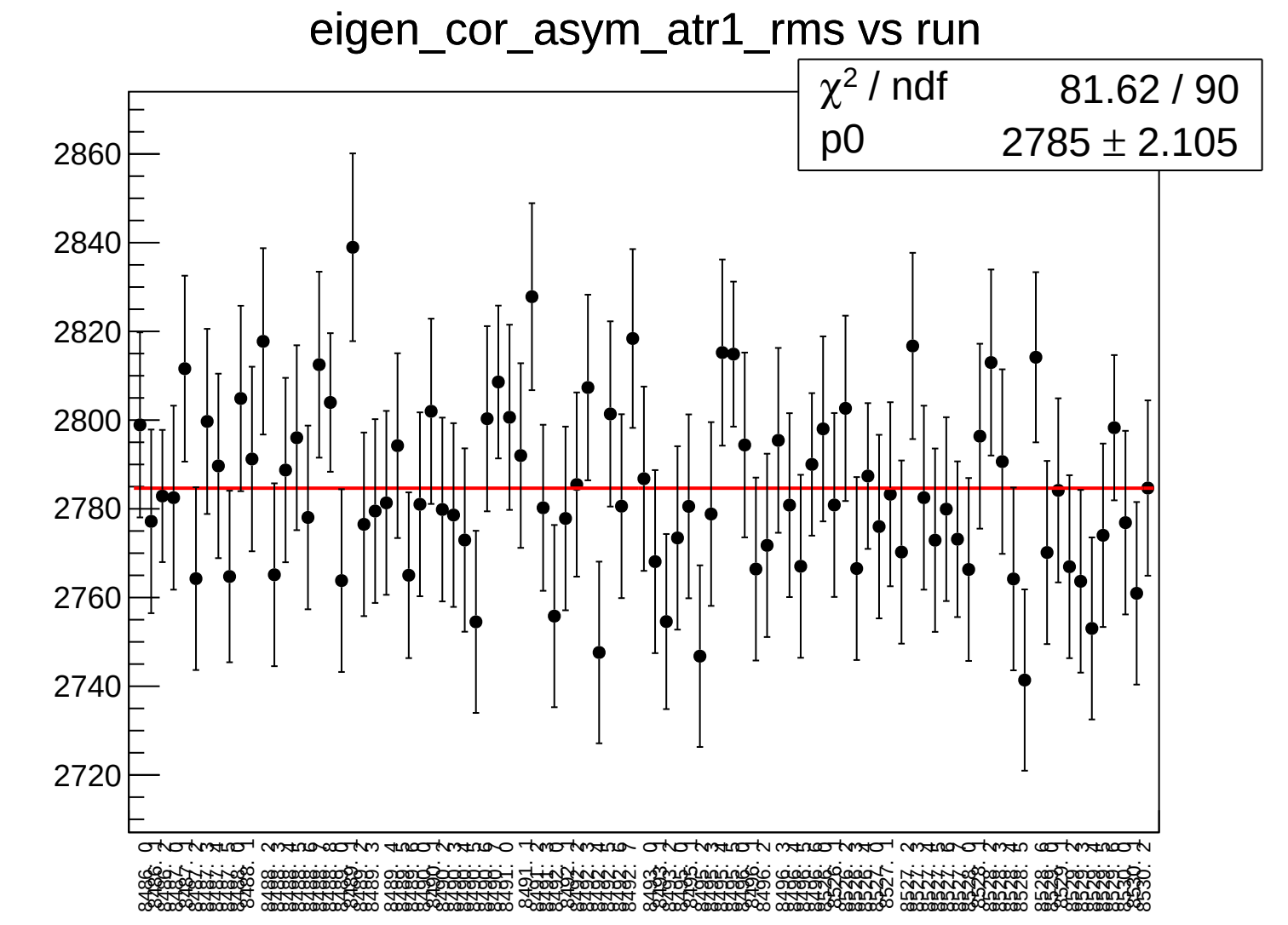

asym_atr1_cor_correction_mean vs run
χ² / ndf 101.9 / 90
p0 −2705 ± 1793
pull
Entries 91
Mean −1.715
Std Dev 0

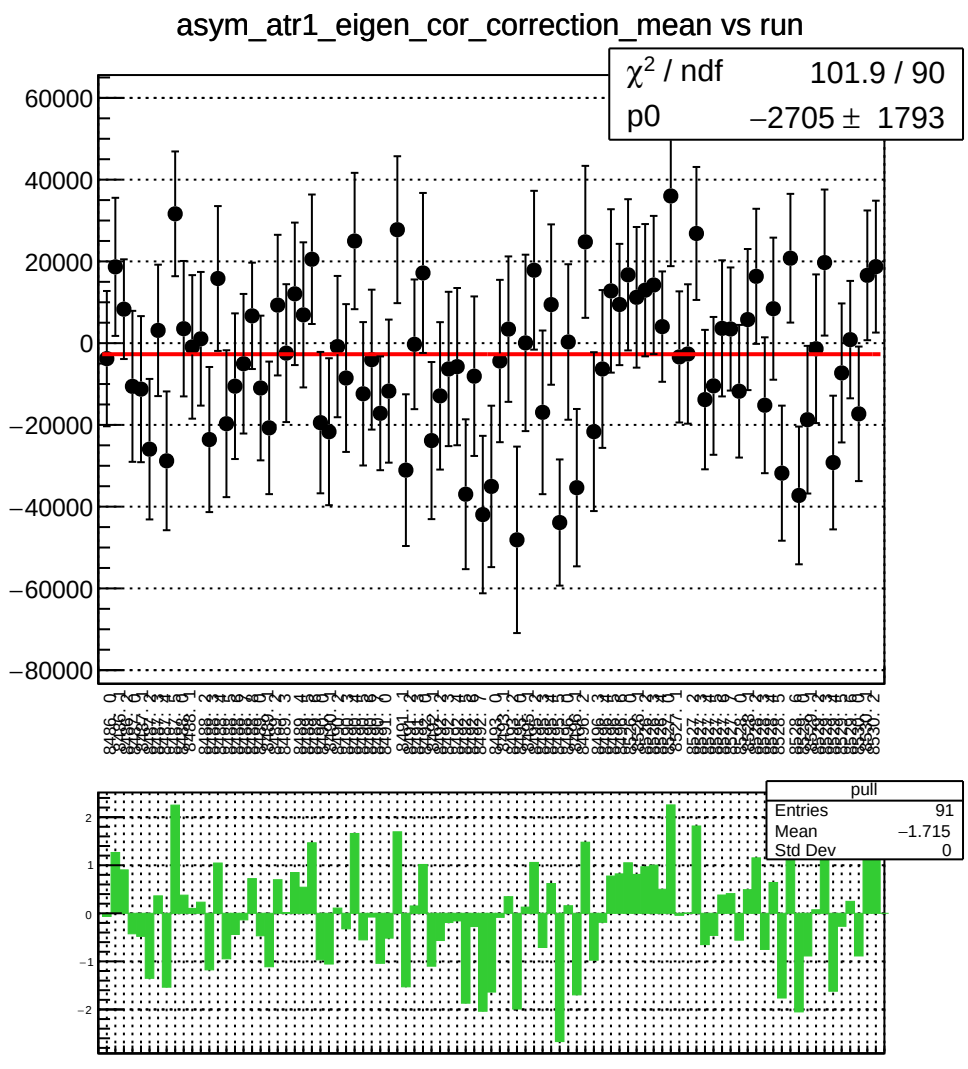

pull1D
Entries 91
Mean −0.02573
Std Dev 1.058

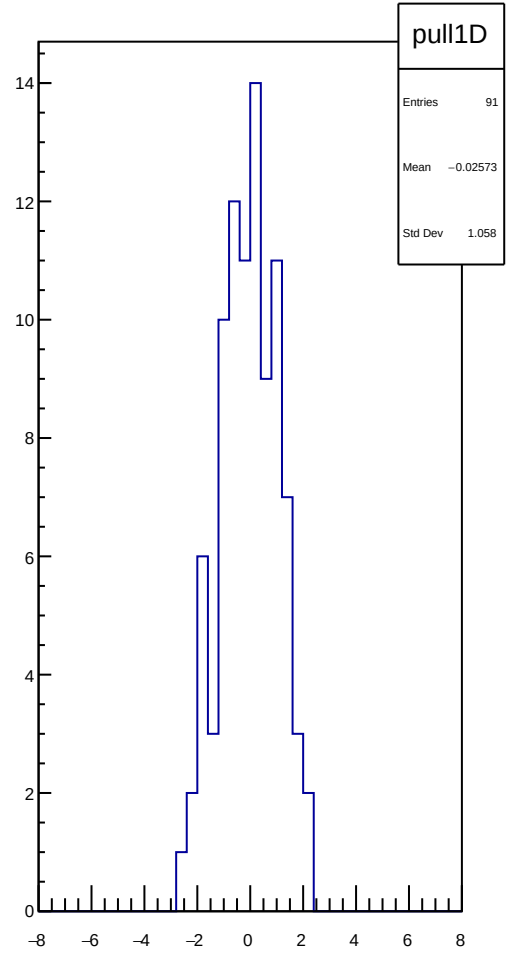

asym_atr1_cor_correction_rms vs run
χ² / ndf 7835 / 90
p0 1674 ± 1.268
2200
2100
2000
1900
1800
1700
1600
1500

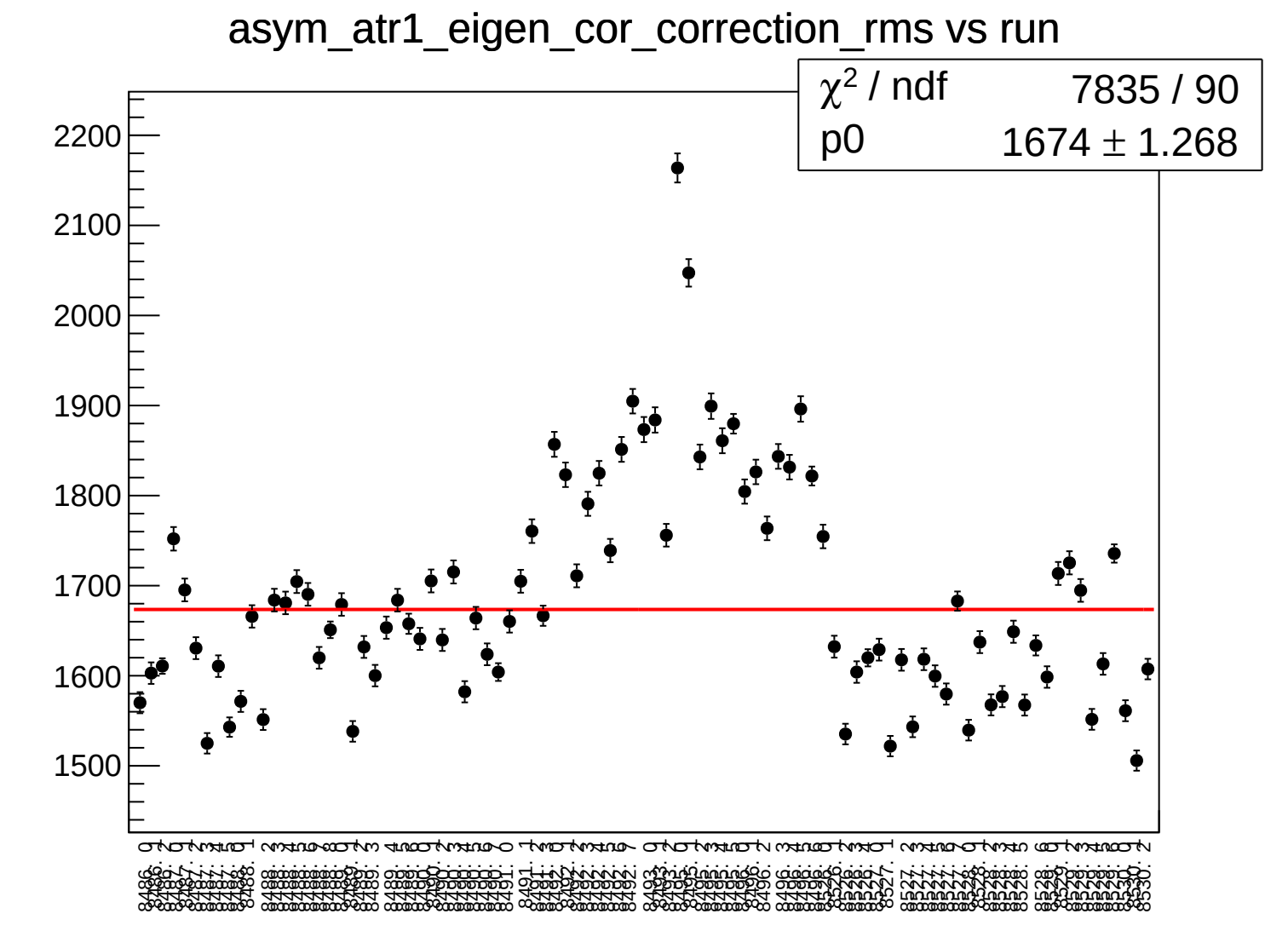

eigen_cor_asym_atr1_mean vs run
×10^3
χ² / ndf 97.48 / 90
p0 1191 ± 2978
100
50
0
−50
−100
pull
Entries 91
Mean −191.3
Std Dev 0
2
1
0
−1
−2

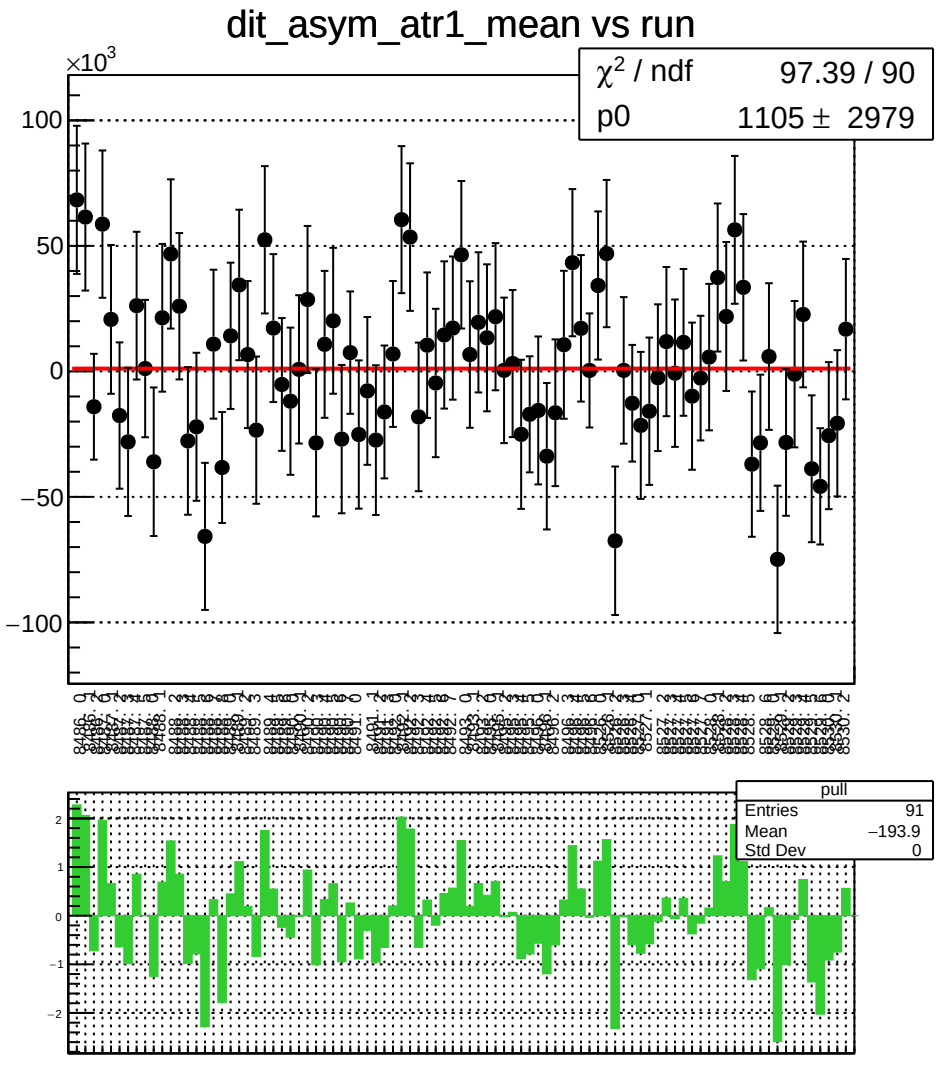

pull1D
Entries 91
Mean 0.02086
Std Dev 1.035
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

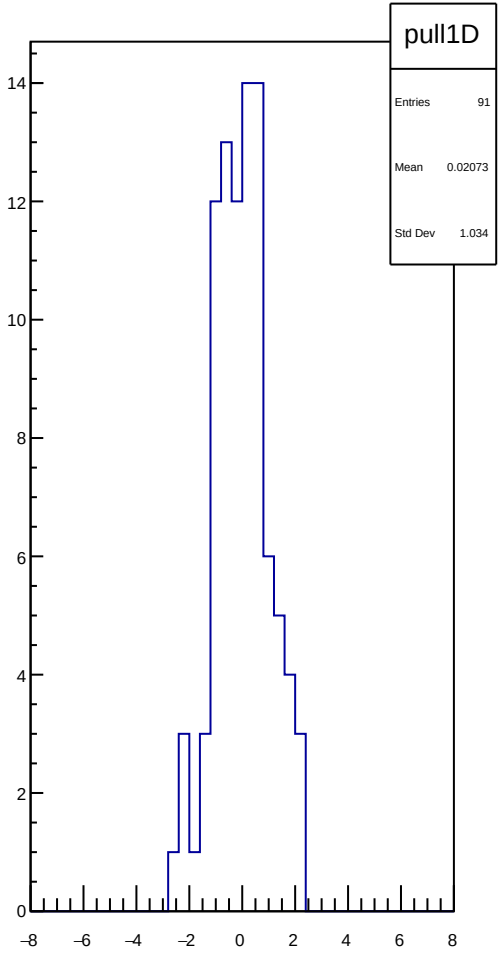

eigen_cor_asym_atr1_rms vs run
χ² / ndf 81.62 / 90
p0 2785 ± 2.105
2860
2840
2820
2800
2780
2760
2740
2720

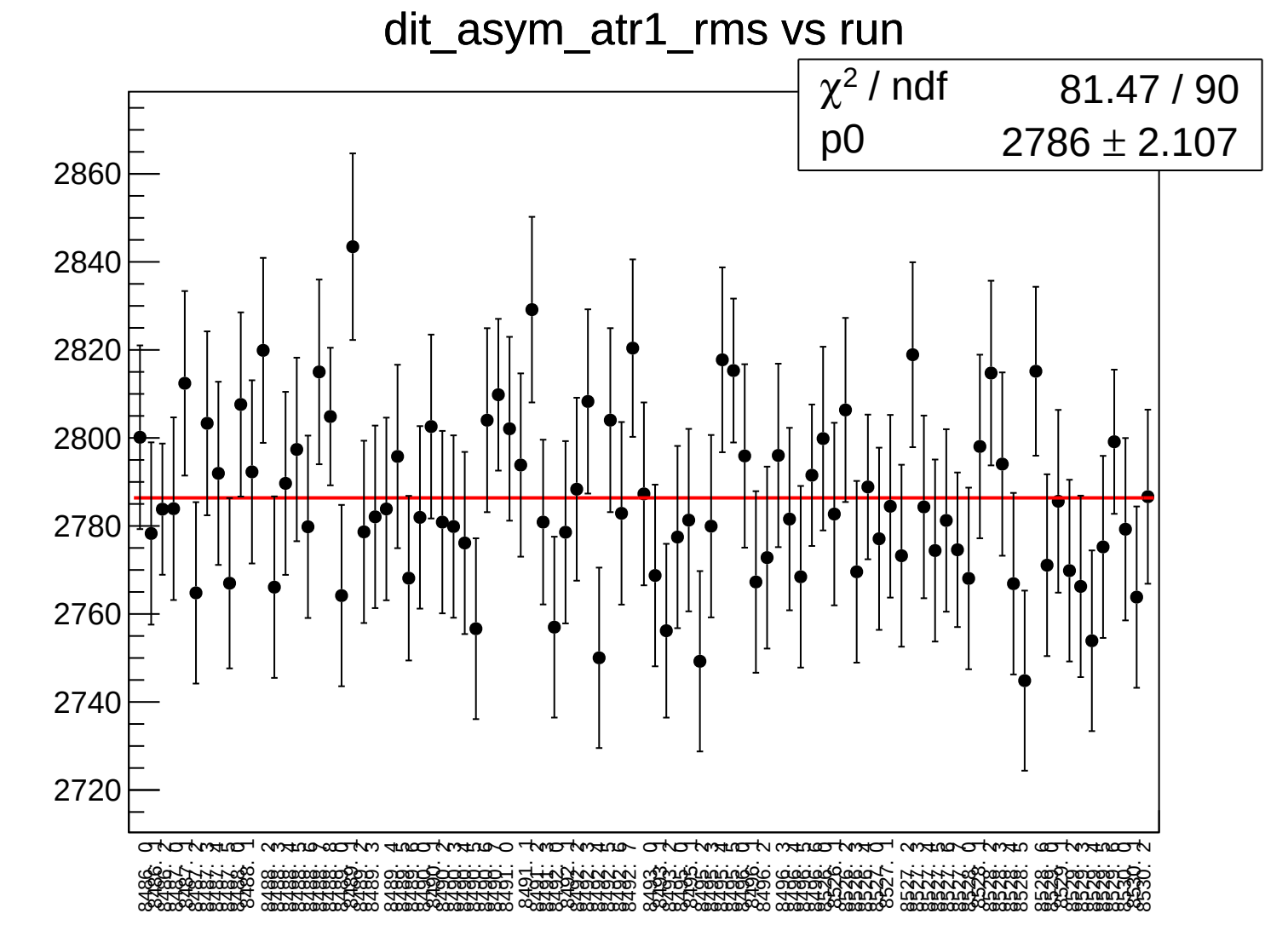

asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 101.9 / 90
p0 −2705 ± 1793
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean −1.715
Std Dev 0
2
1
0
−1

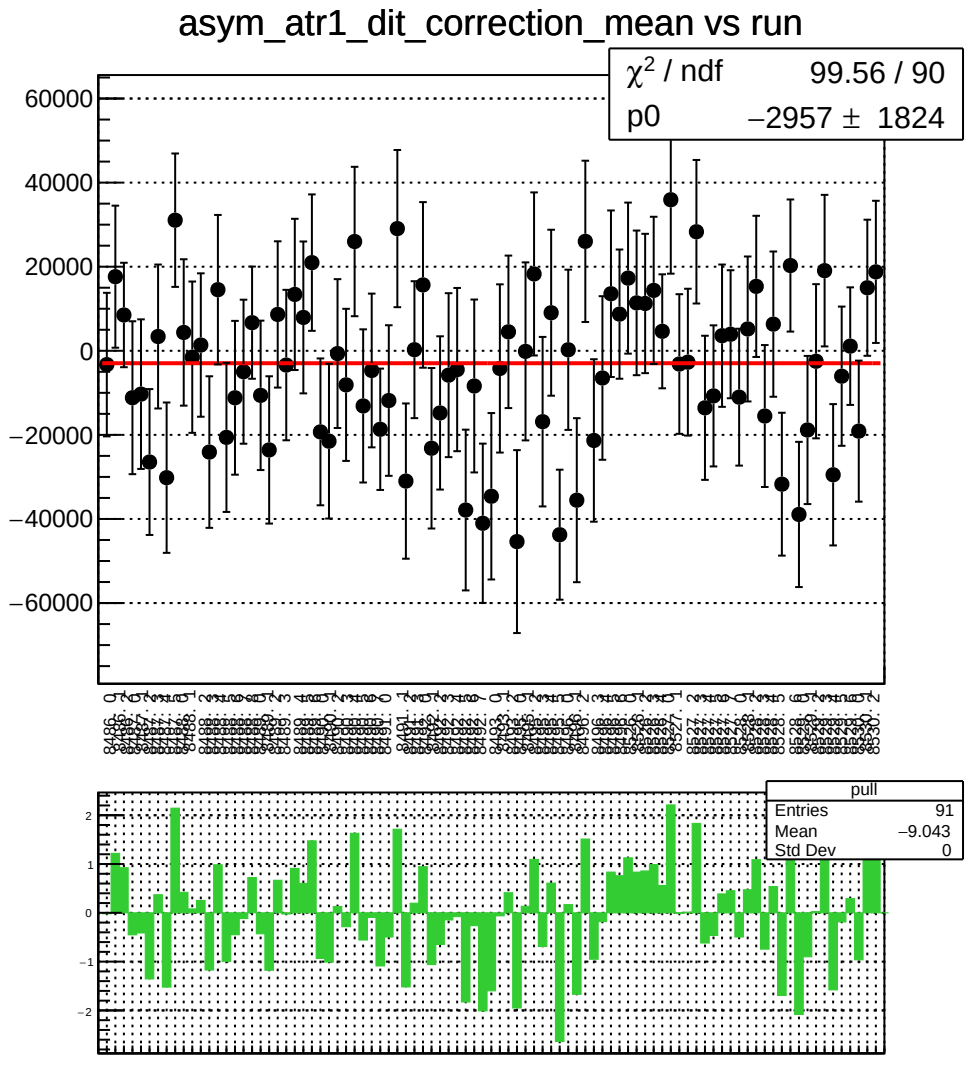

pull1D
Entries 91
Mean −0.02573
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

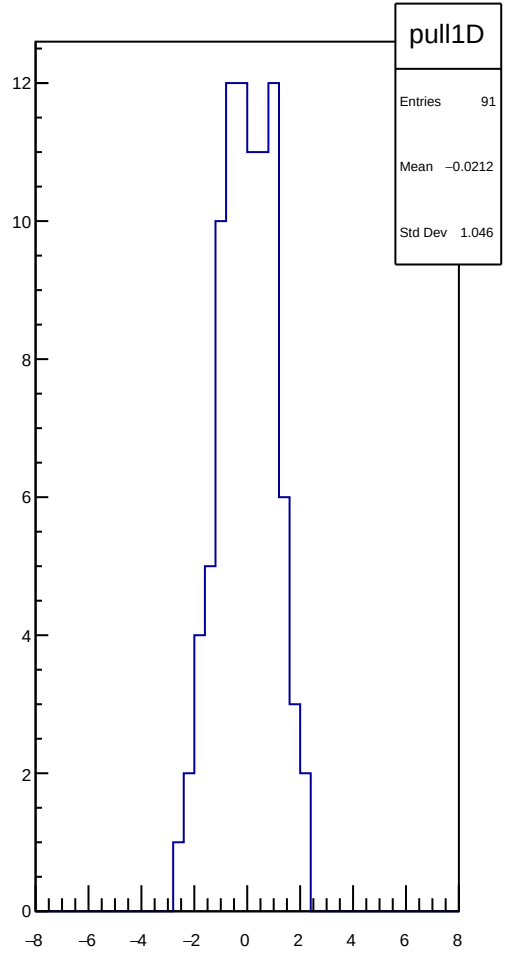

asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 7835 / 90
p0 1674 ± 1.268
2200
2100
2000
1900
1800
1700
1600
1500

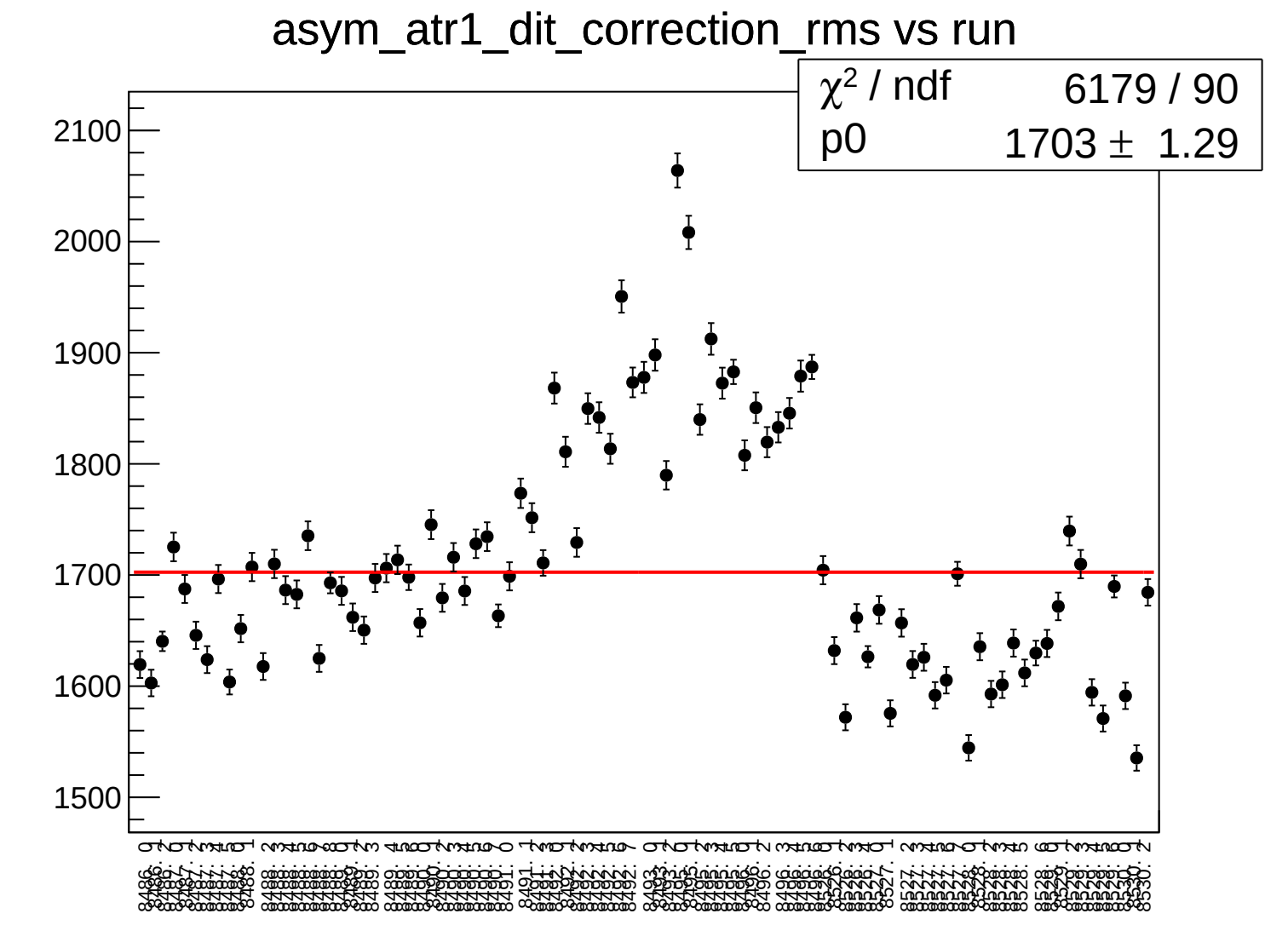

dit_asym_atr1_mean vs run
×10^3
χ^2 / ndf 97.39 / 90
p0 1105 ± 2979
100
50
0
−50
−100
pull
Entries 91
Mean −193.9
Std Dev 0
2
1
0
−1
−2

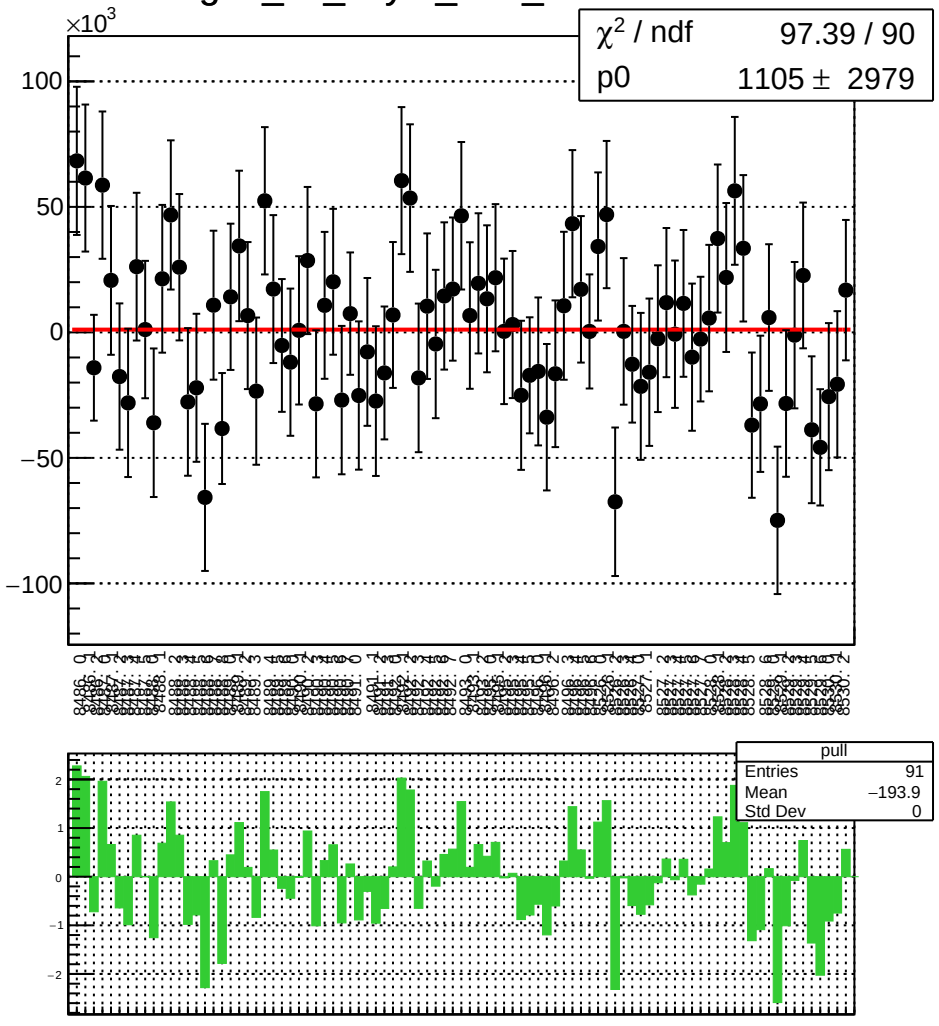

pull1D
Entries 91
Mean 0.02073
Std Dev 1.034
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

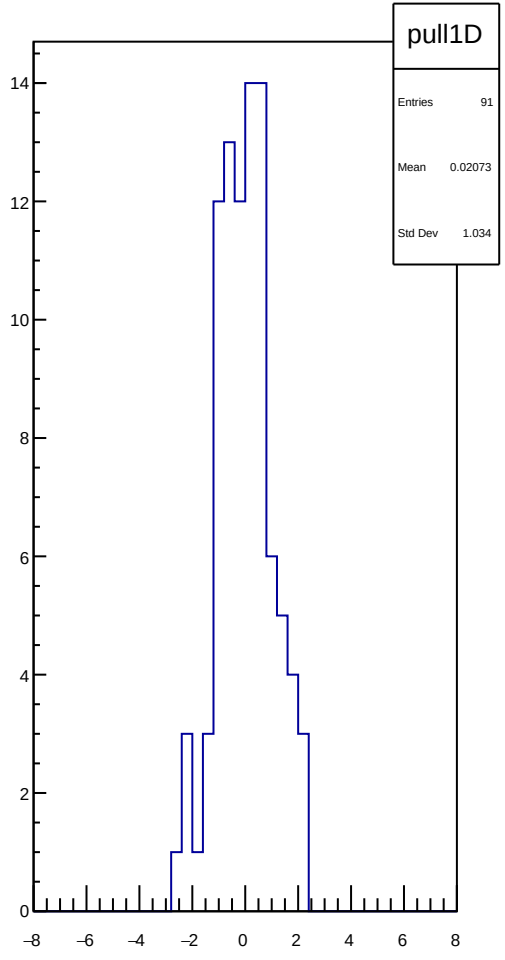

dit_asym_atr1_rms vs run
χ² / ndf 81.47 / 90
p0 2786 ± 2.107
2860
2840
2820
2800
2780
2760
2740
2720

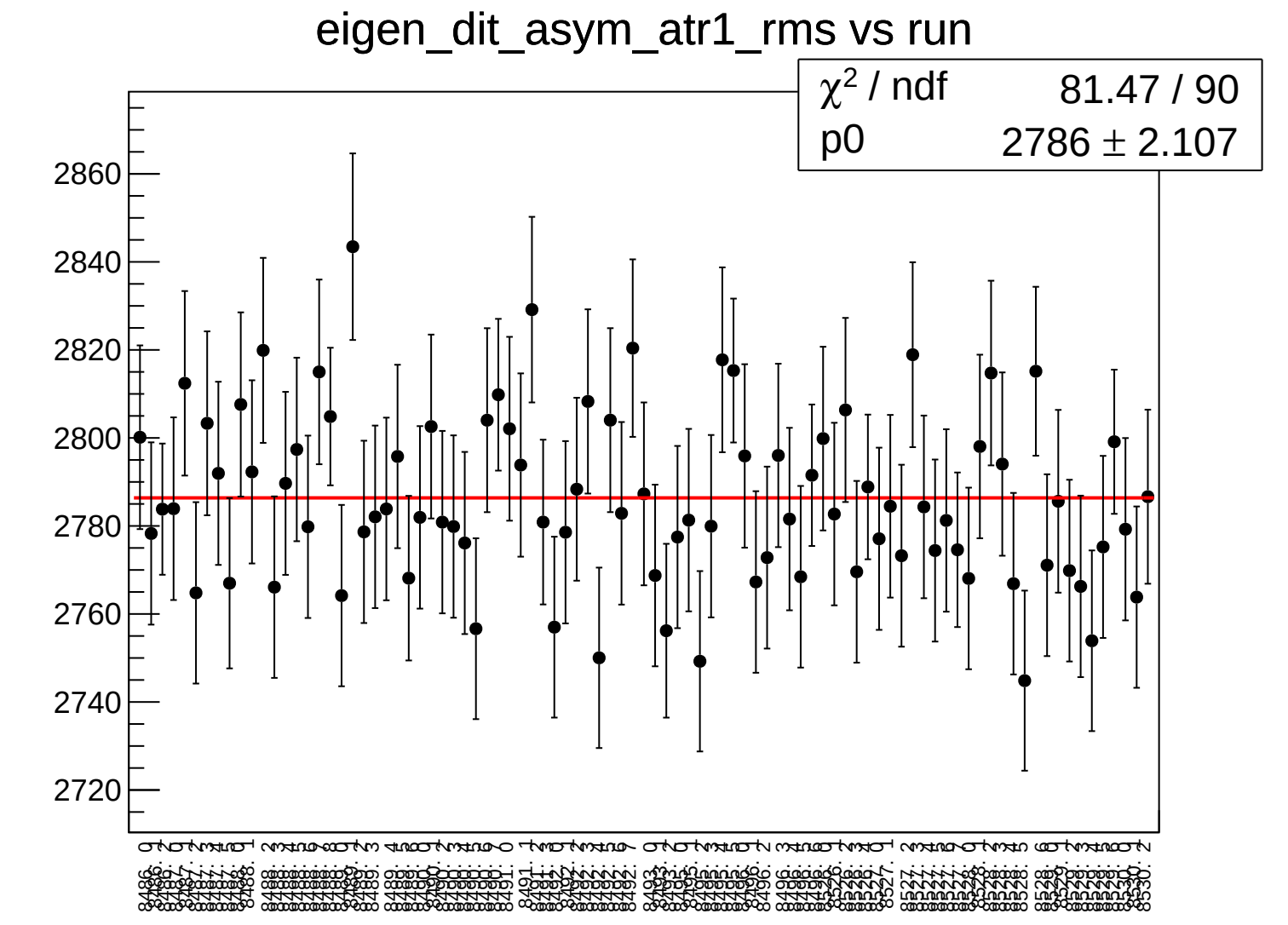

asym_atr1_dit_correction_mean vs run
χ² / ndf 99.56 / 90
p0 −2957 ± 1824
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −9.043
Std Dev 0
2
1
0
−1
−2

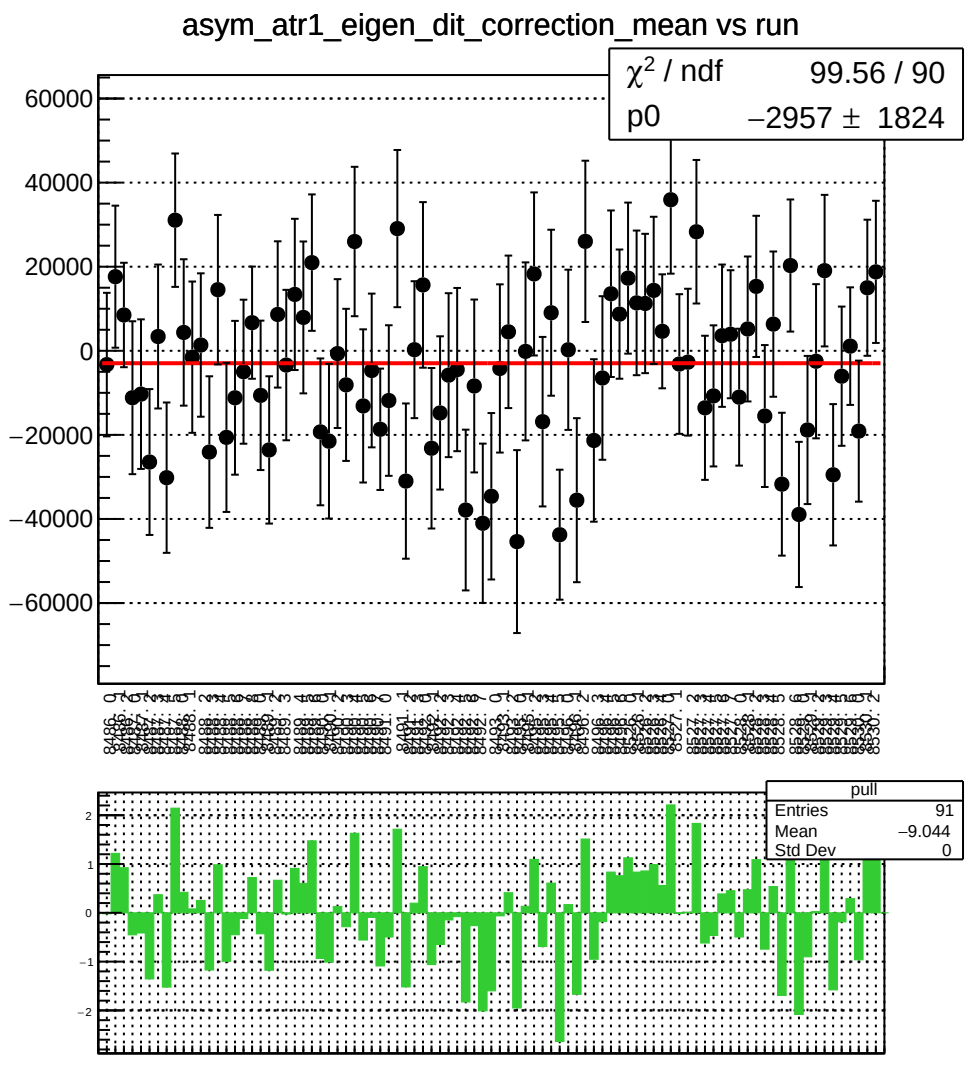

pull1D
Entries 91
Mean −0.0212
Std Dev 1.046
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

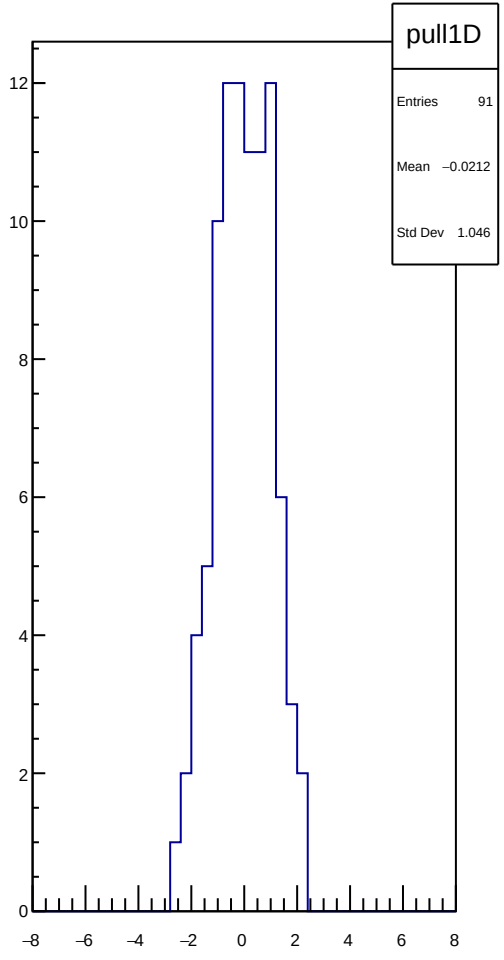

asym_atr1_dit_correction_rms vs run
χ² / ndf 6179 / 90
p0 1703 ± 1.29
2100
2000
1900
1800
1700
1600
1500

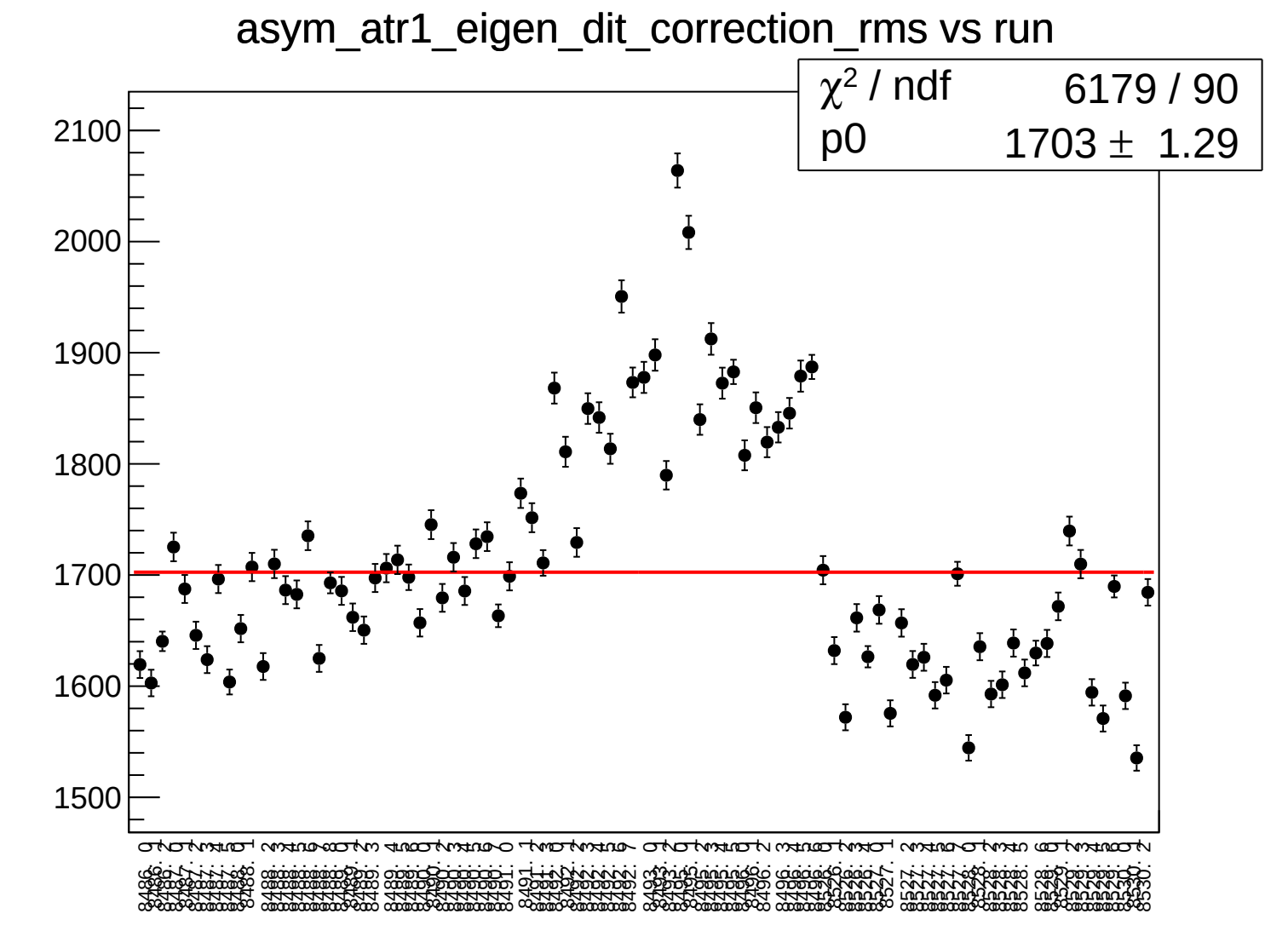

eigen_dit_asym_atr1_mean vs run
×10^3
χ² / ndf 97.39 / 90
p0 1105 ± 2979
100
50
0
−50
−100
pull
Entries 91
Mean −193.9
Std Dev 0
2
1
0
−1
−2

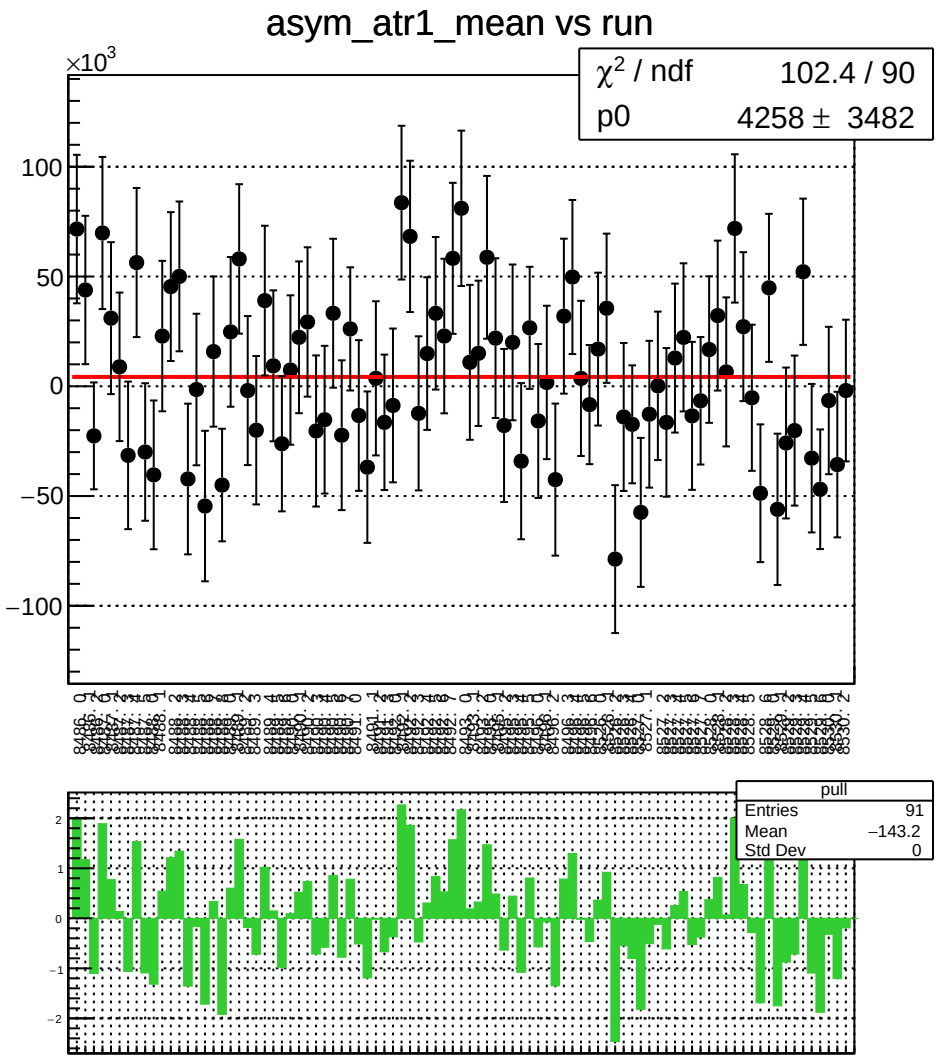

pull1D
Entries 91
Mean 0.02073
Std Dev 1.034
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

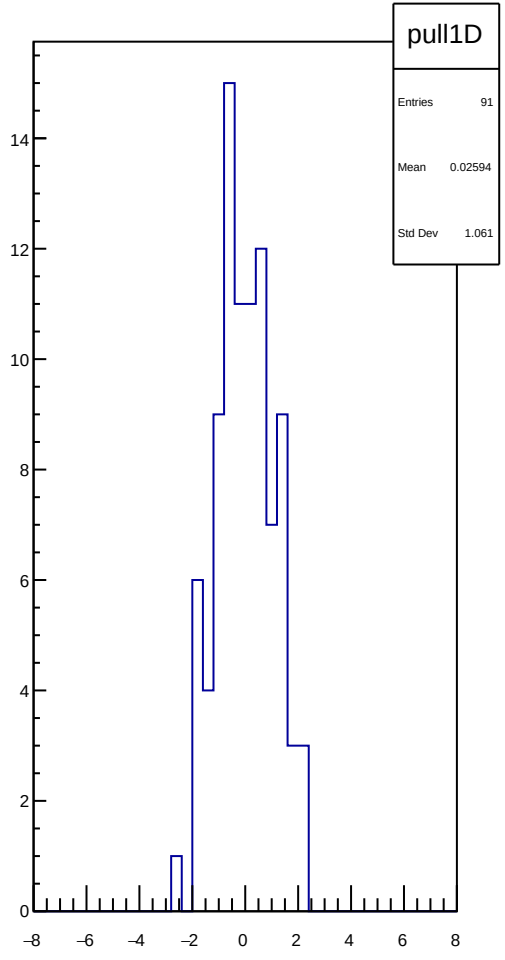

eigen_dit_asym_atr1_rms vs run
χ^2 / ndf 81.47 / 90
p0 2786 ± 2.107
2860
2840
2820
2800
2780
2760
2740
2720

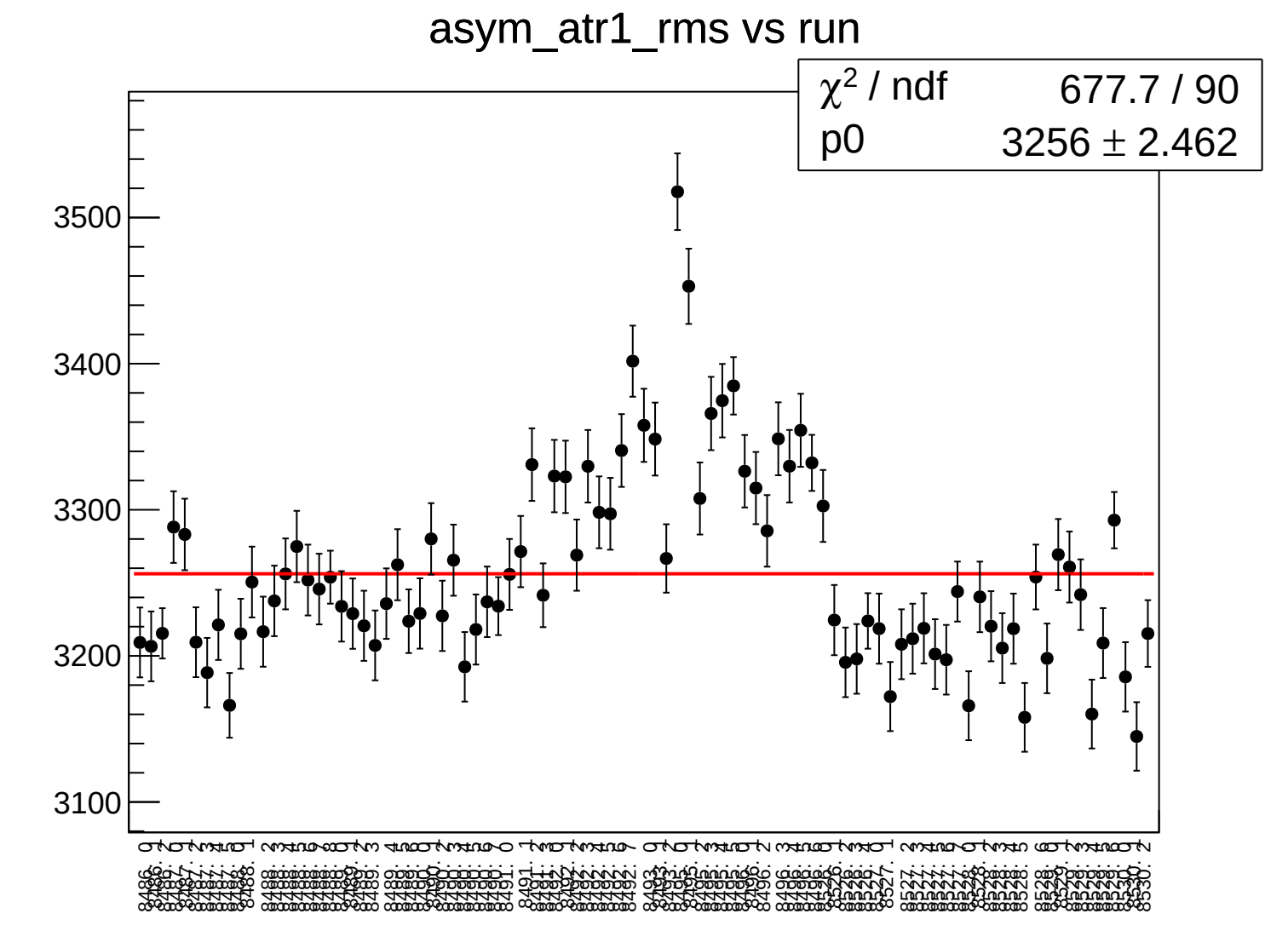

asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 99.56 / 90
p0 −2957 ± 1824
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −9.044
Std Dev 0
2
1
0
−1
−2

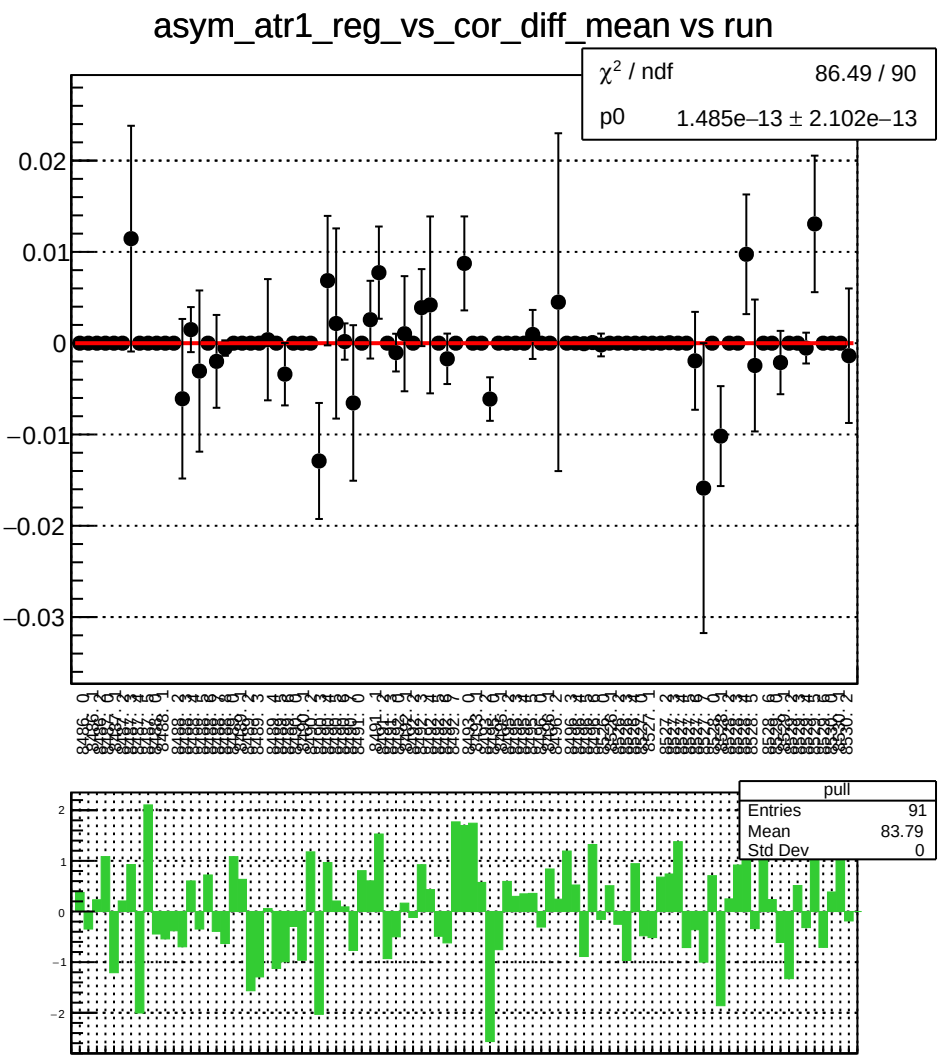

pull1D
Entries 91
Mean −0.0212
Std Dev 1.046
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

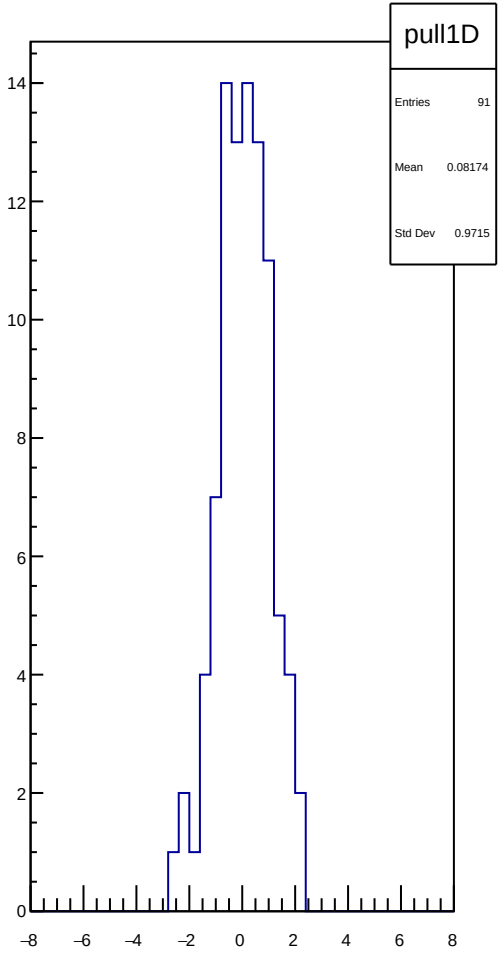

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 6179 / 90
p0 1703 ± 1.29
2100
2000
1900
1800
1700
1600
1500

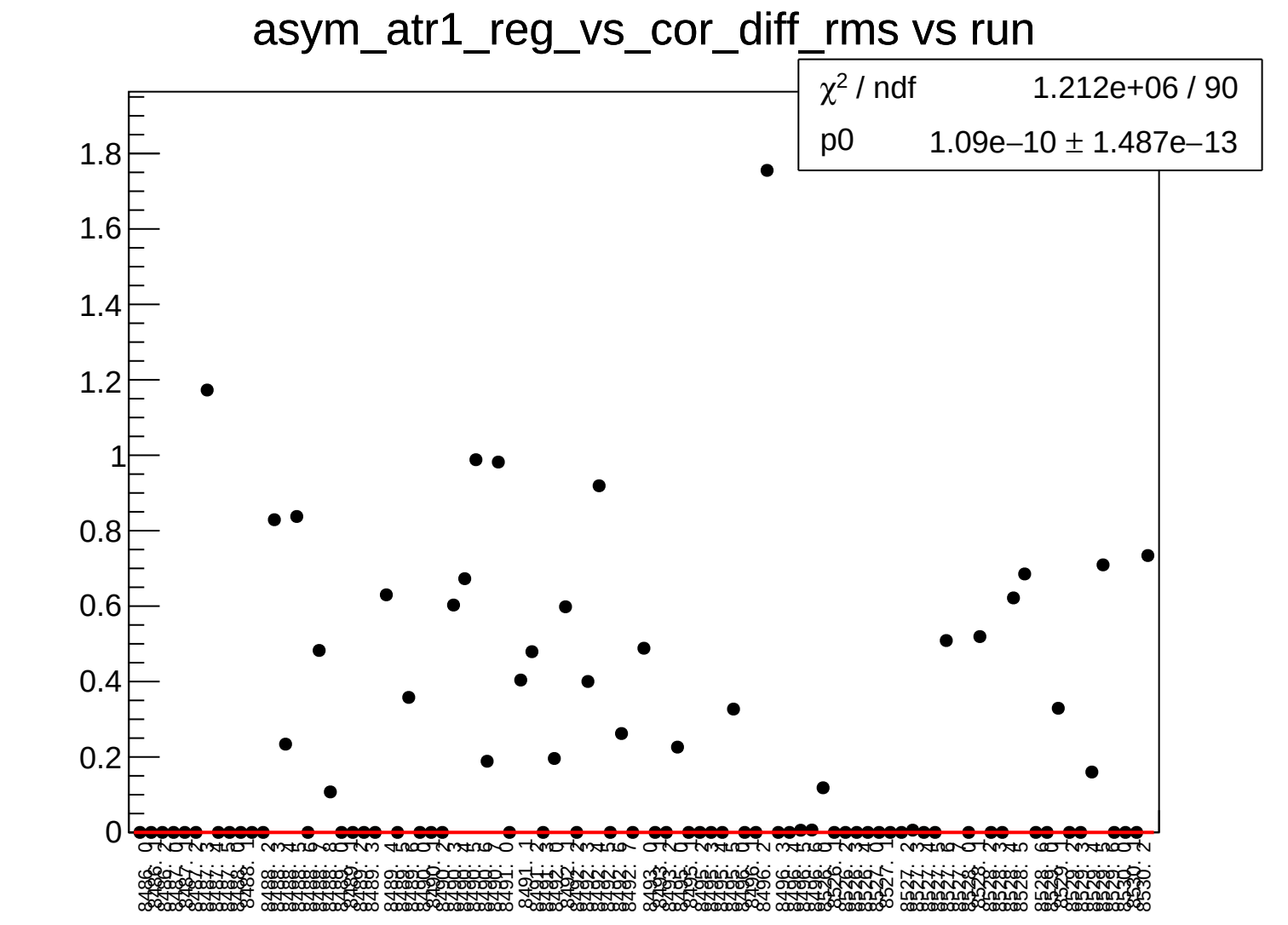

asym_atr1_mean vs run
×10^3
χ² / ndf 102.4 / 90
p0 4258 ± 3482
100
50
0
−50
−100
pull
Entries 91
Mean −143.2
Std Dev 0
2
1
0
−1
−2

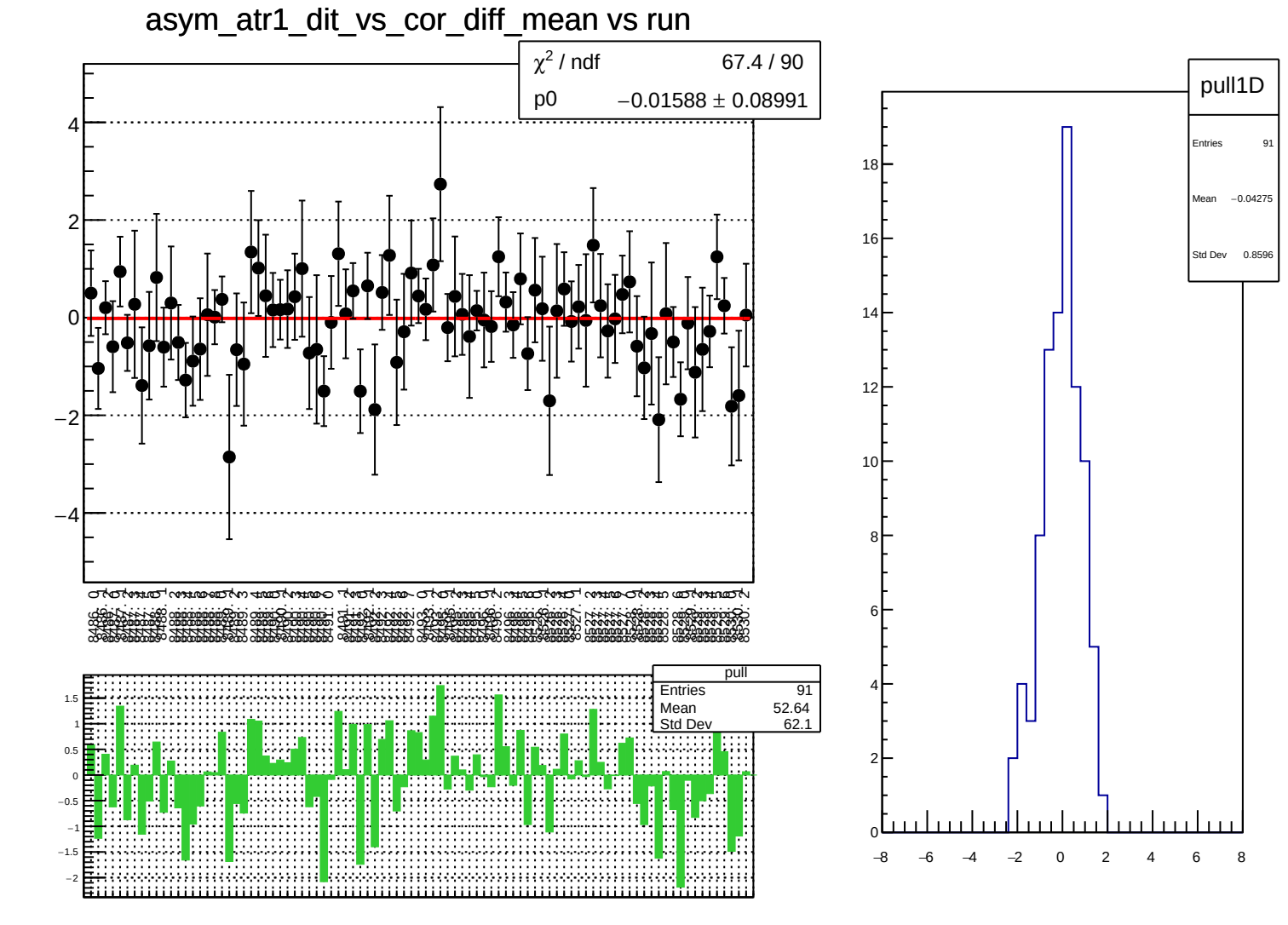

pull1D
Entries 91
Mean 0.02594
Std Dev 1.061
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

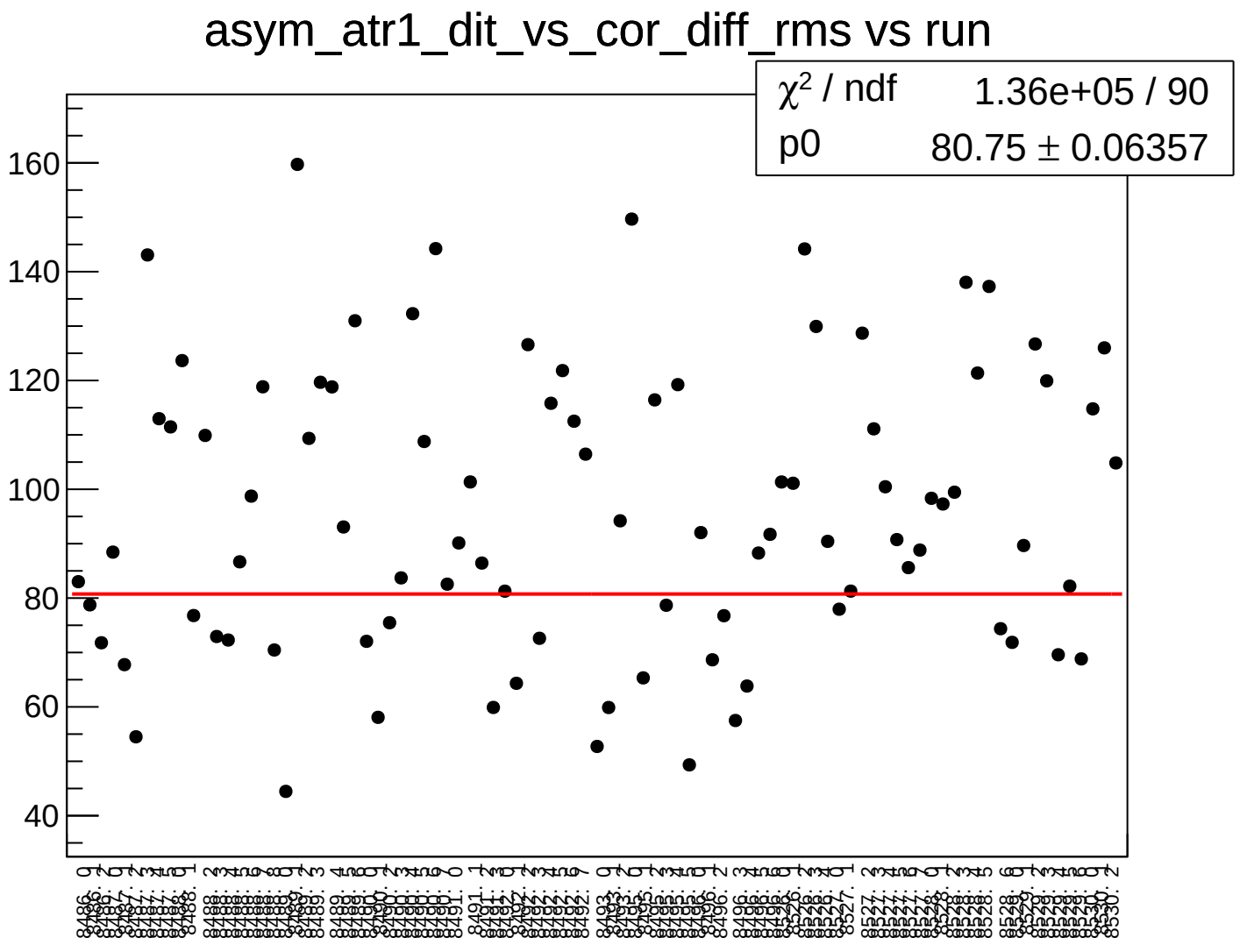

asym_atr1_rms vs run
χ^2 / ndf 677.7 / 90
p0 3256 ± 2.462
3500
3400
3300
3200
3100

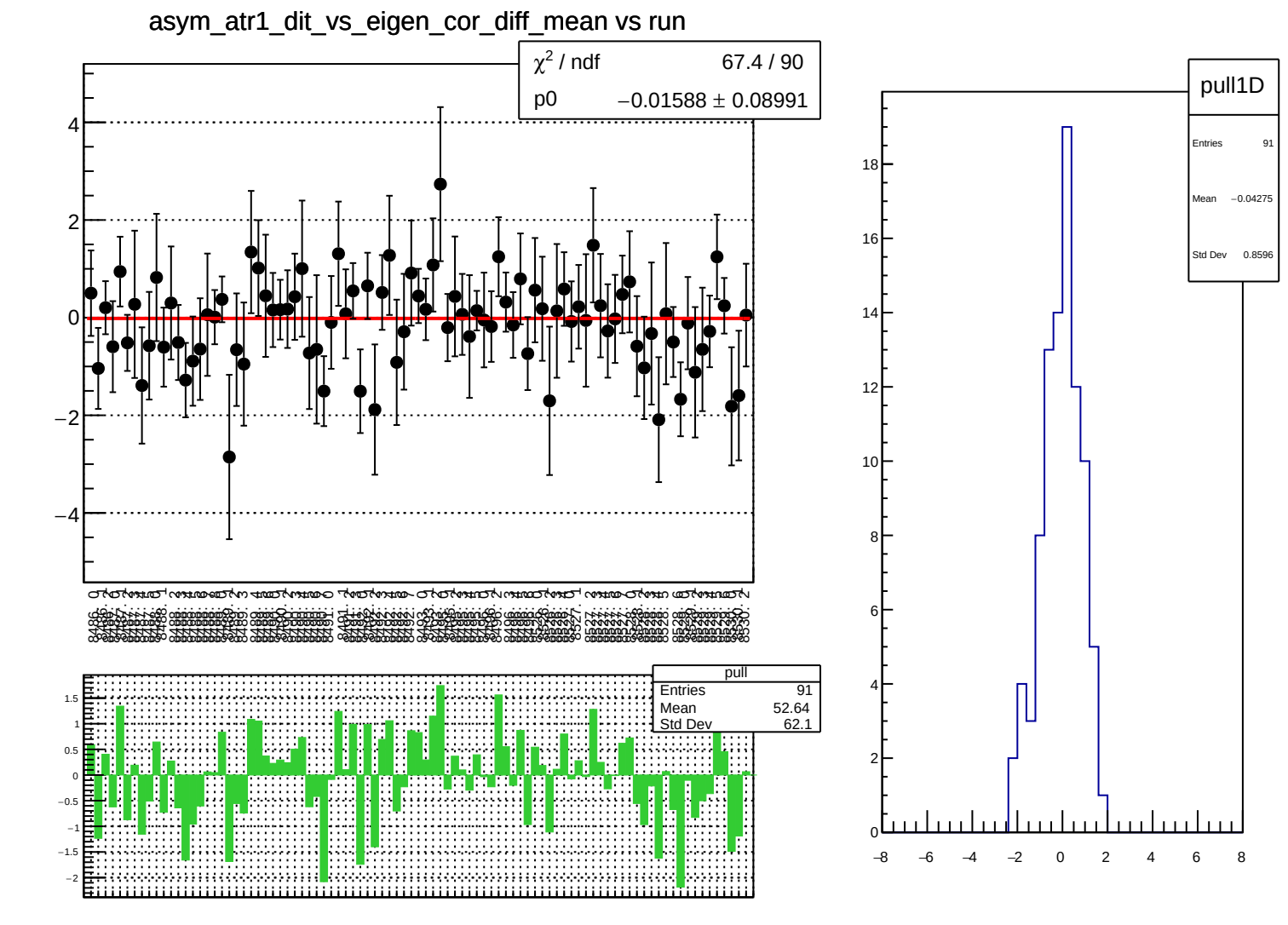

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 86.49 / 90
p0 1.485e−13 ± 2.102e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 91
Mean 83.79
Std Dev 0
2
1
0
−1
−2

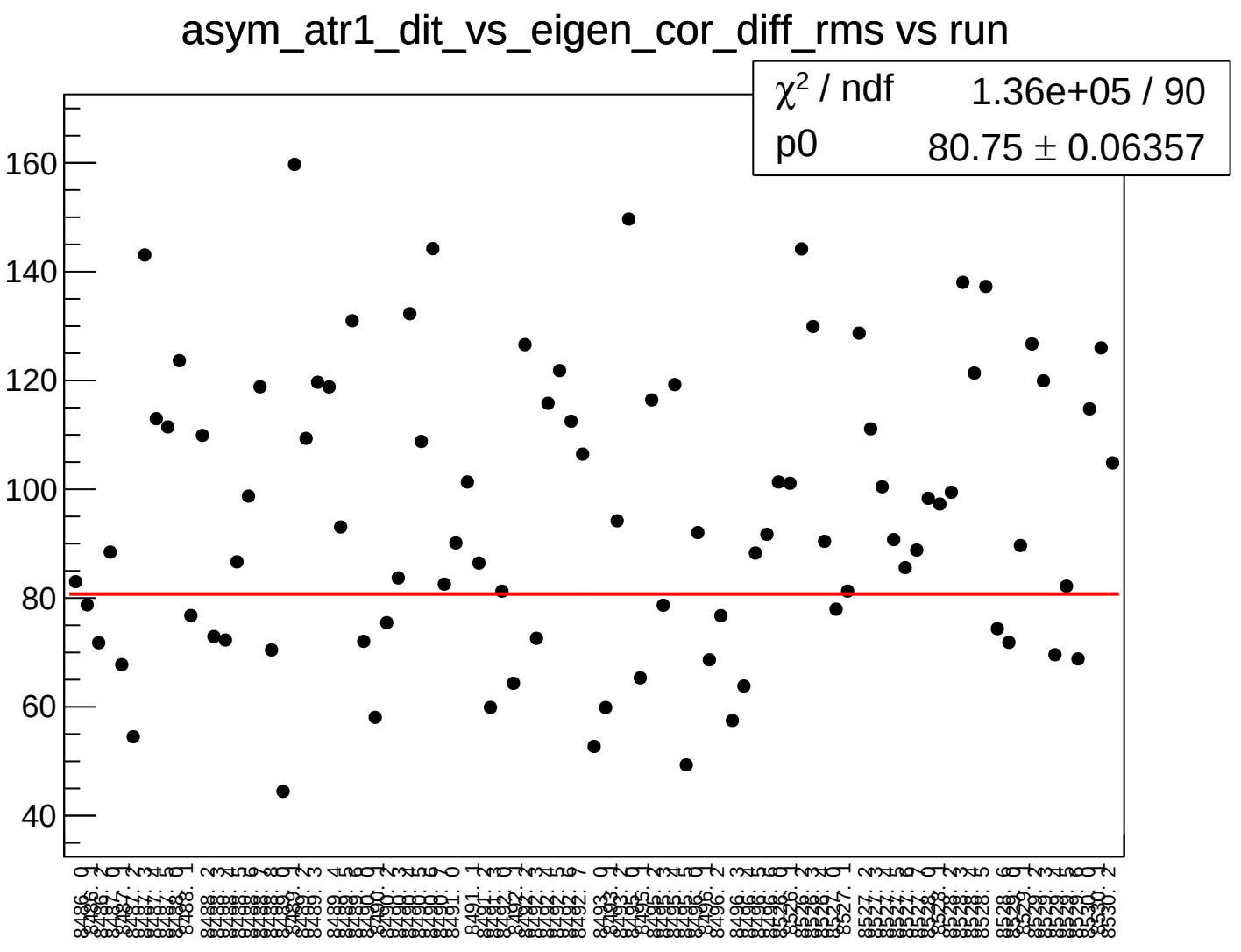

pull1D
Entries 91
Mean 0.08174
Std Dev 0.9715
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

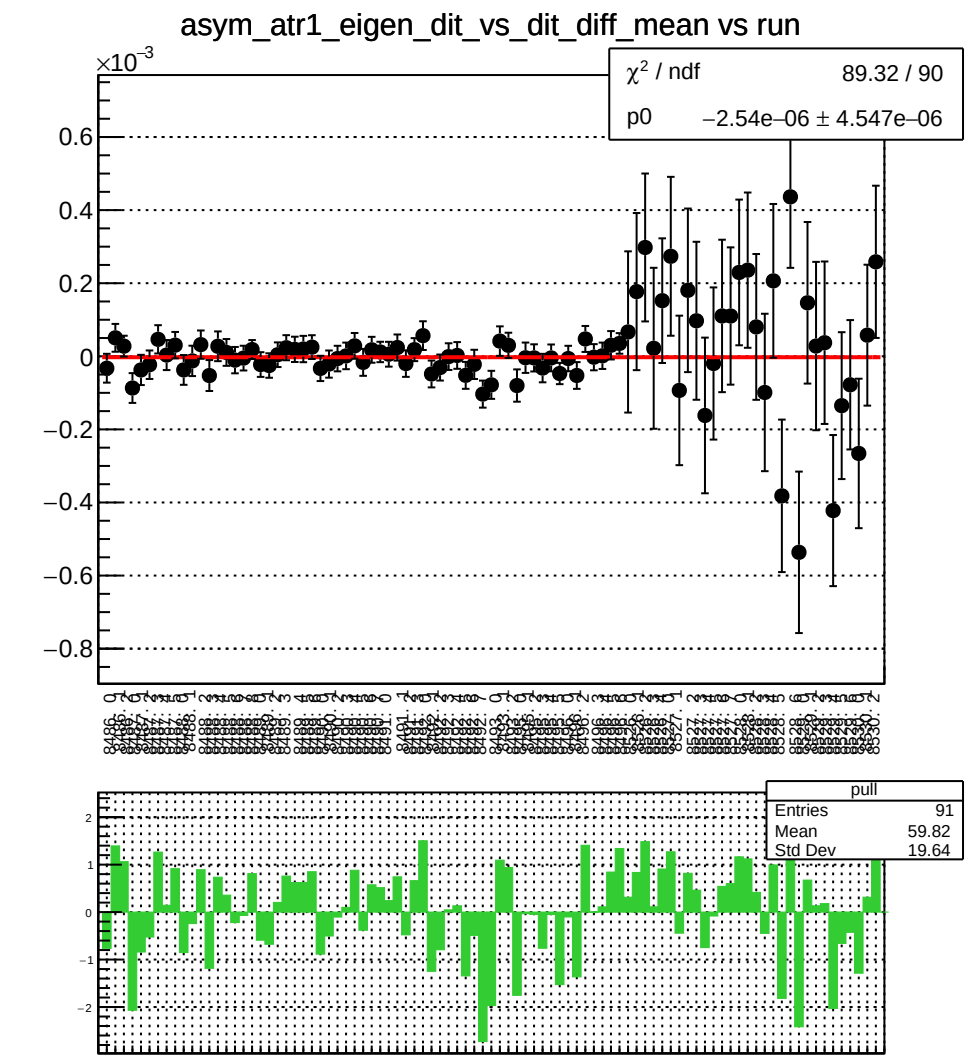

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.212e+06 / 90
p0 1.09e−10 ± 1.487e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

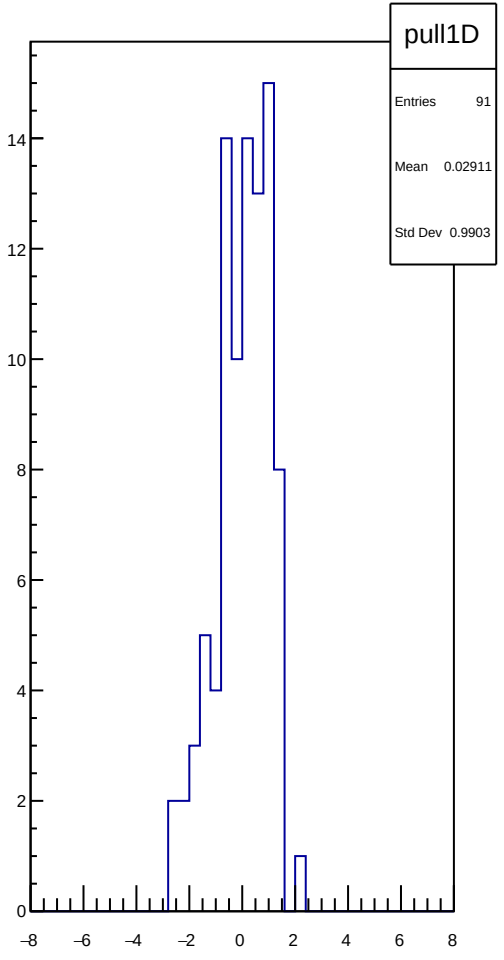

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 67.4 / 90
p0 −0.01588 ± 0.08991
pull
Entries 91
Mean 52.64
Std Dev 62.1
pull1D
Entries 91
Mean −0.04275
Std Dev 0.8596

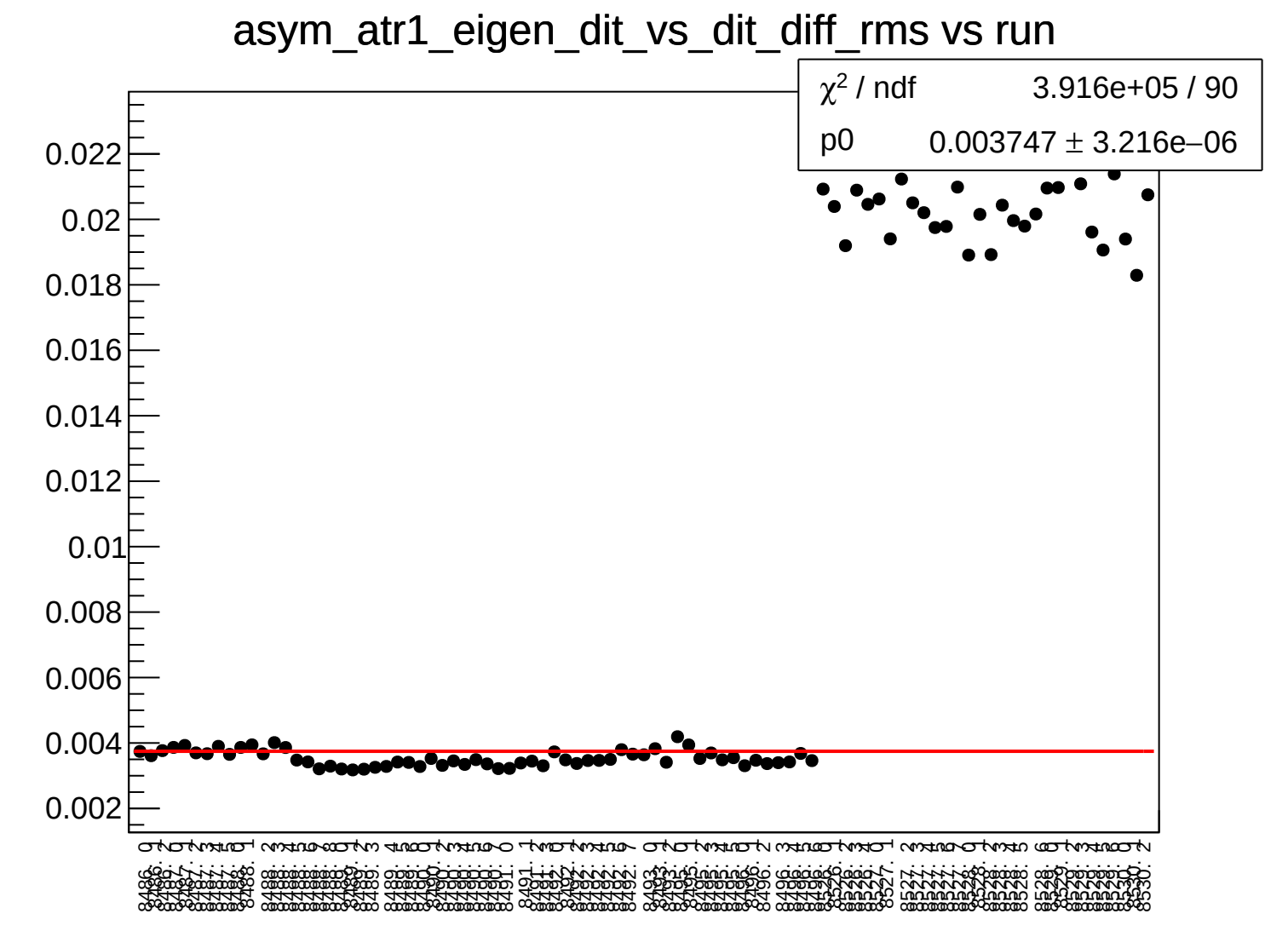

asym_atr1_dit_vs_cor_diff_rms vs run
χ² / ndf 1.36e+05 / 90
p0 80.75 ± 0.06357
160
140
120
100
80
60
40

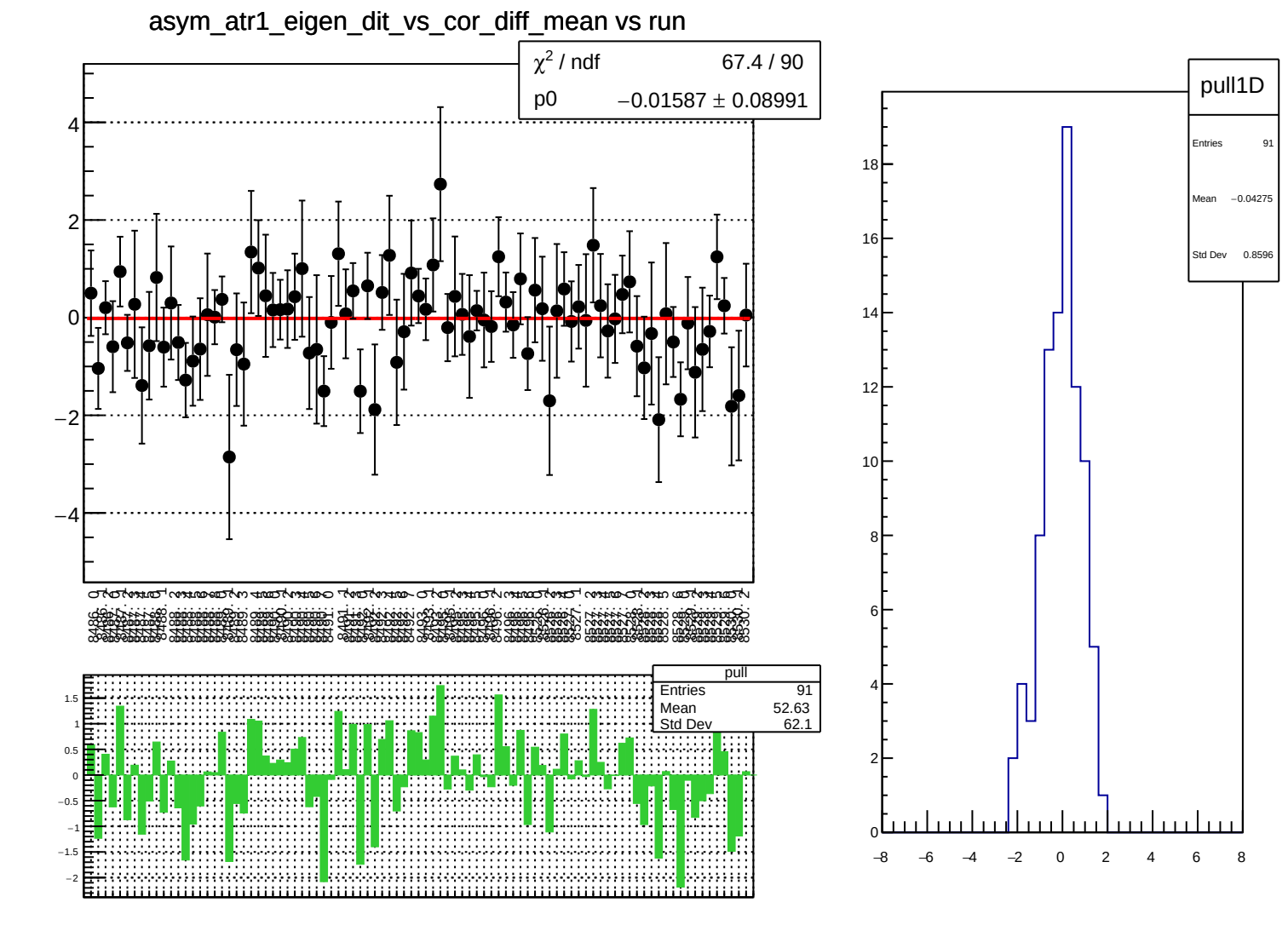

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.4 / 90
p0 −0.01588 ± 0.08991
pull
Entries 91
Mean 52.64
Std Dev 62.1
pull1D
Entries 91
Mean −0.04275
Std Dev 0.8596

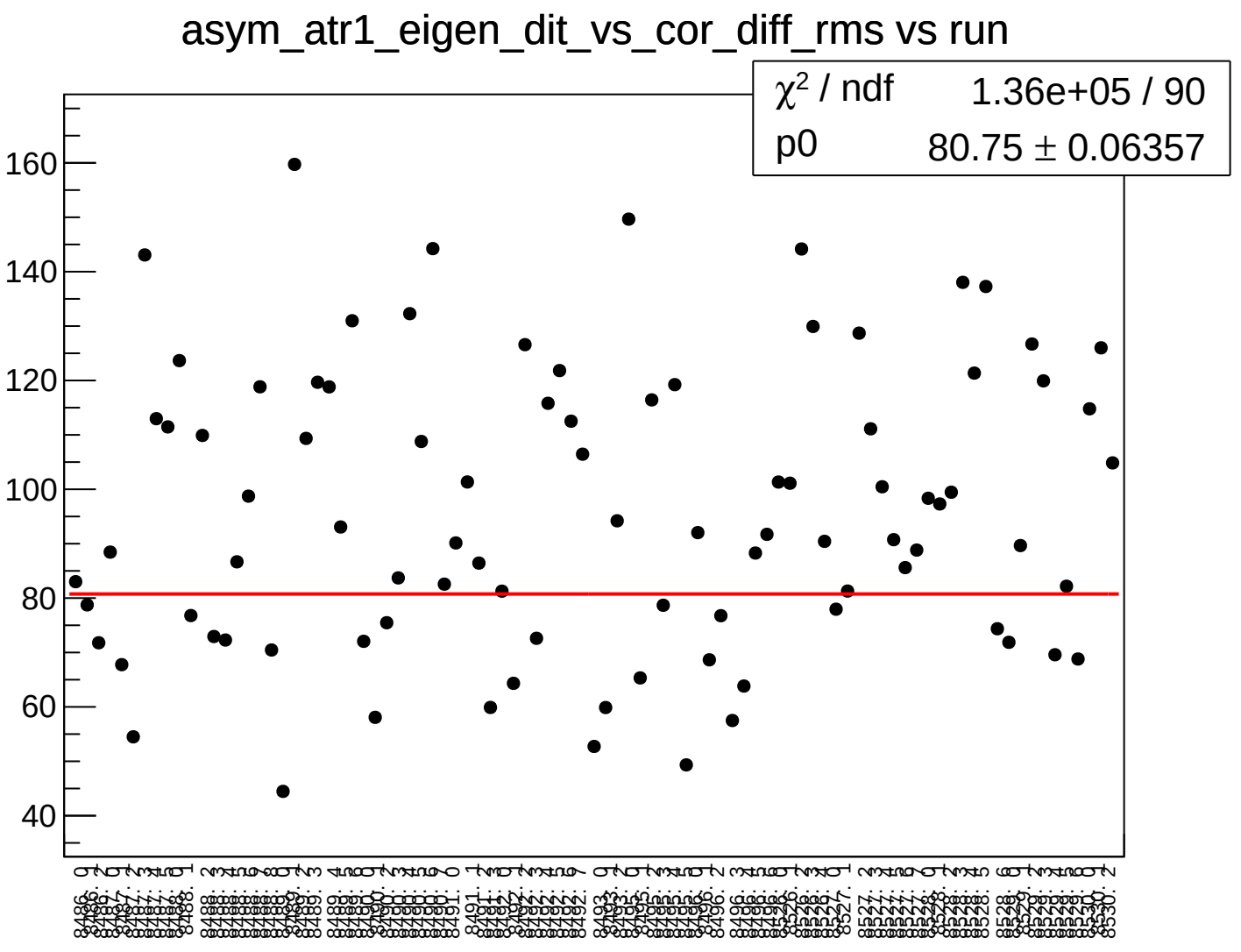

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.36e+05 / 90
p0 80.75 ± 0.06357
160
140
120
100
80
60
40

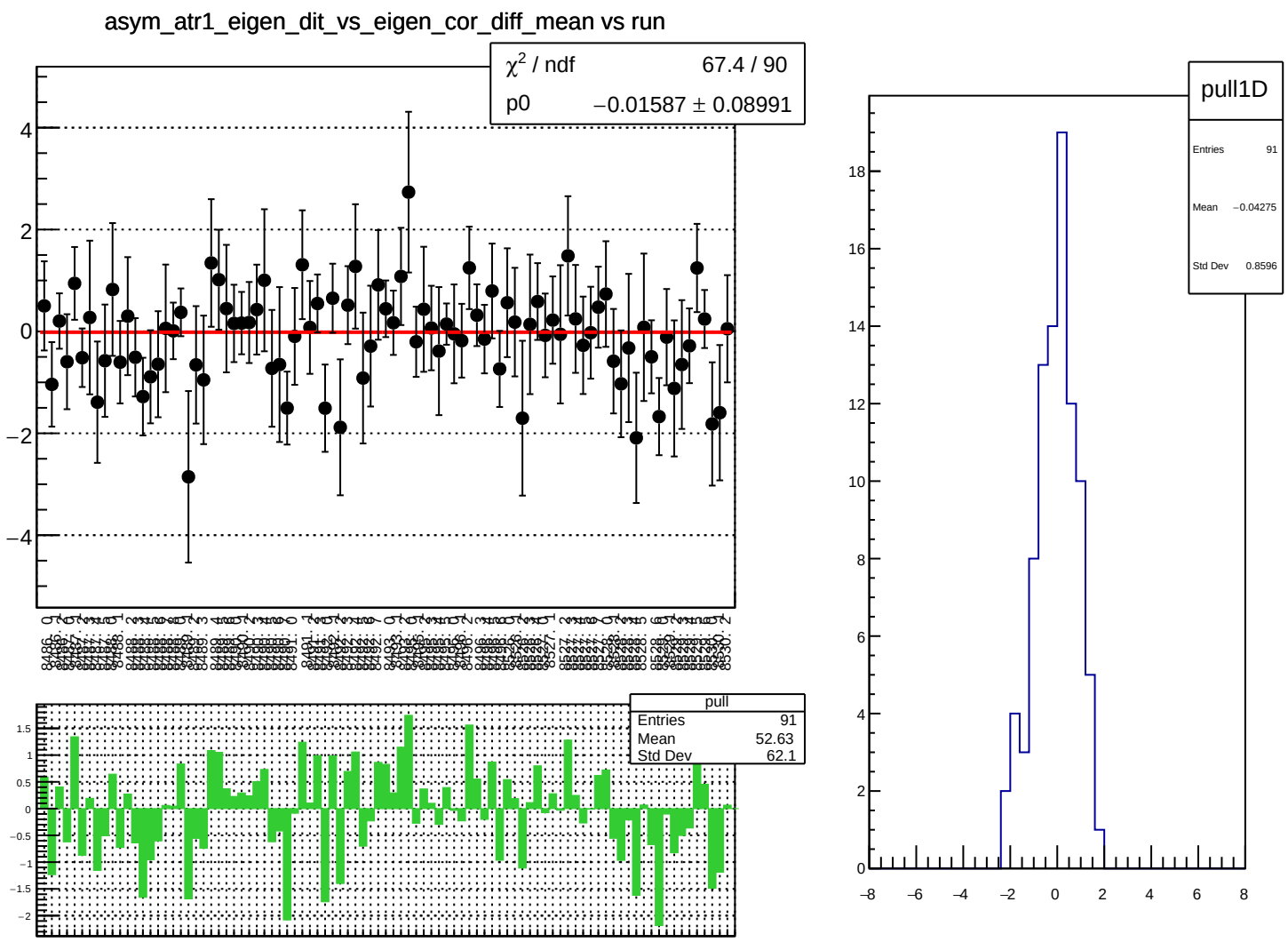

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.32 / 90
p0 −2.54e−06 ± 4.547e−06
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull
Entries 91
Mean 59.82
Std Dev 19.64
2
1
0
−1
−2

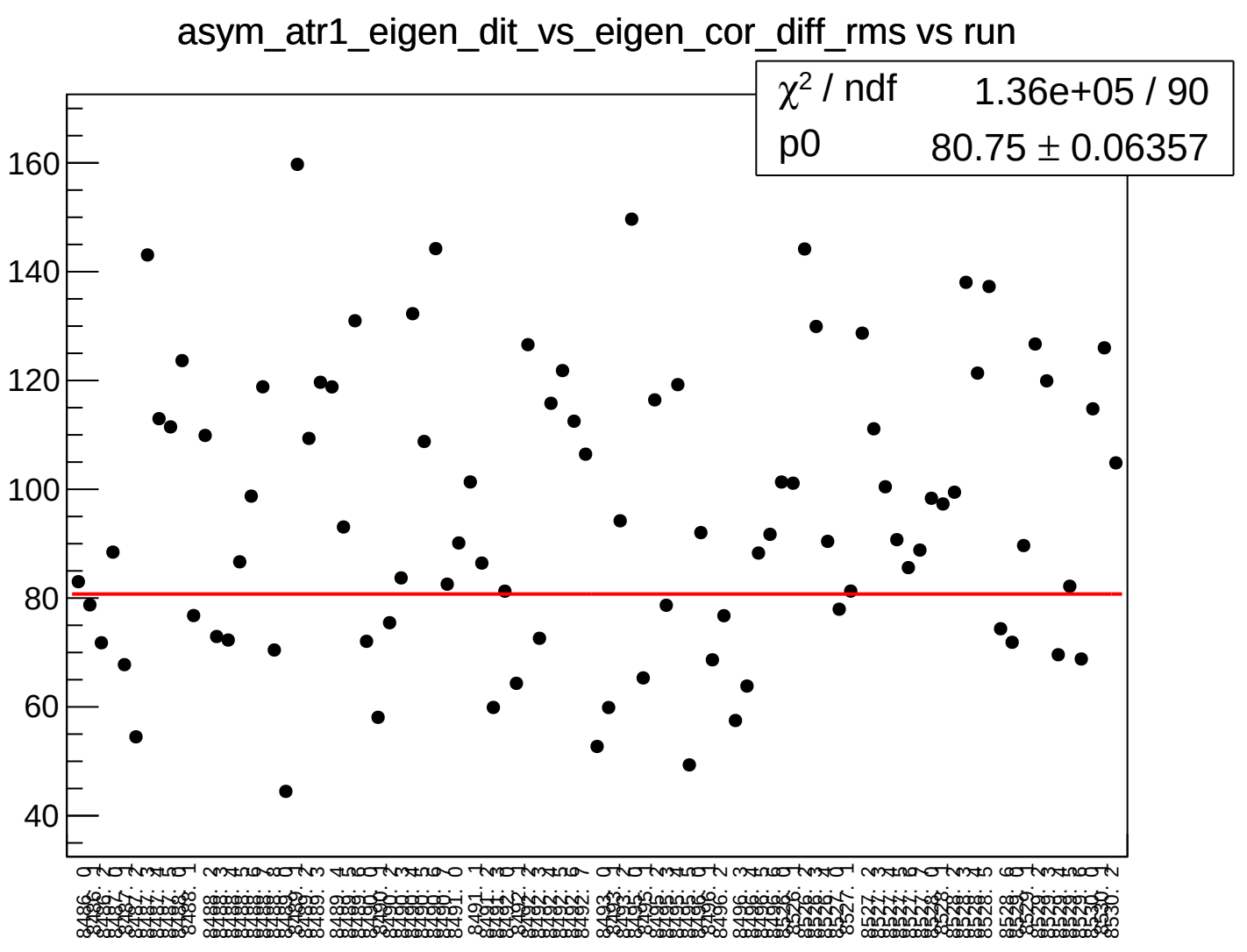

pull1D
Entries 91
Mean 0.02911
Std Dev 0.9903
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

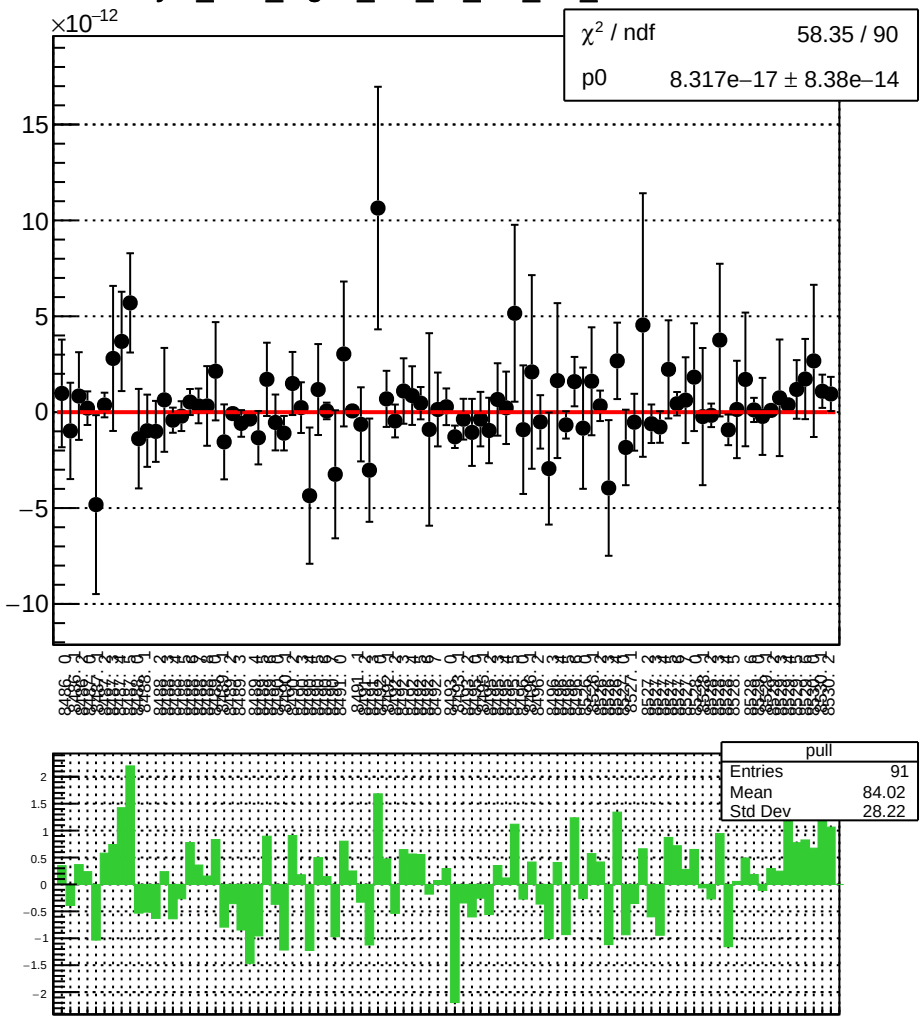

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.916e+05 / 90
p0 0.003747 ± 3.216e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

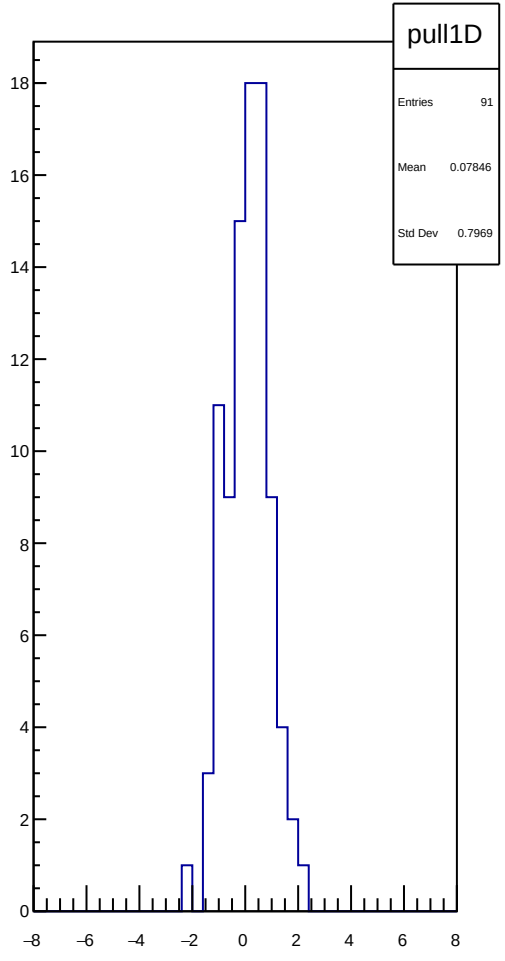

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 67.4 / 90
p0 −0.01587 ± 0.08991
pull
Entries 91
Mean 52.63
Std Dev 62.1
pull1D
Entries 91
Mean −0.04275
Std Dev 0.8596

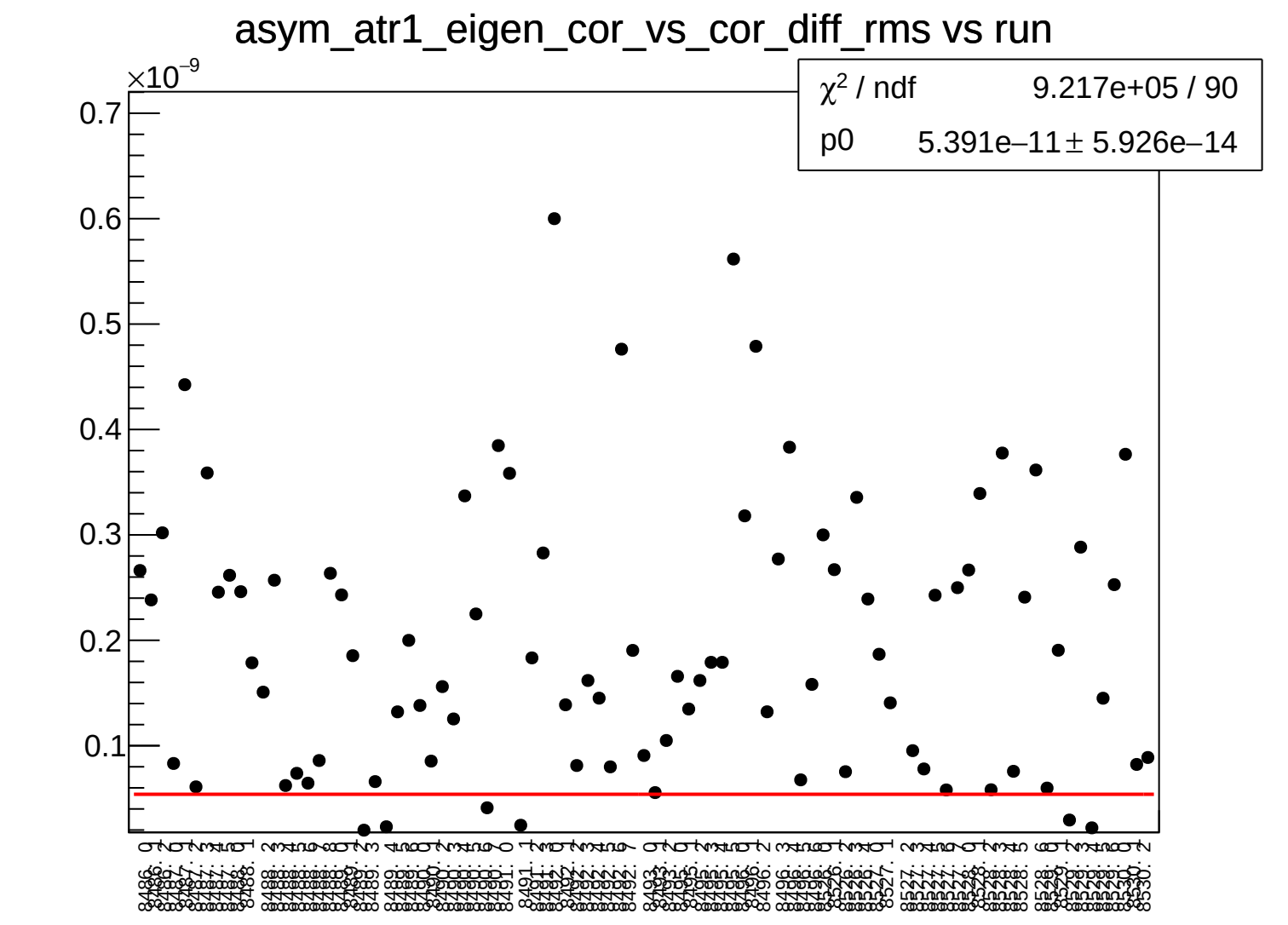

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.36e+05 / 90
p0 80.75 ± 0.06357
160
140
120
100
80
60
40

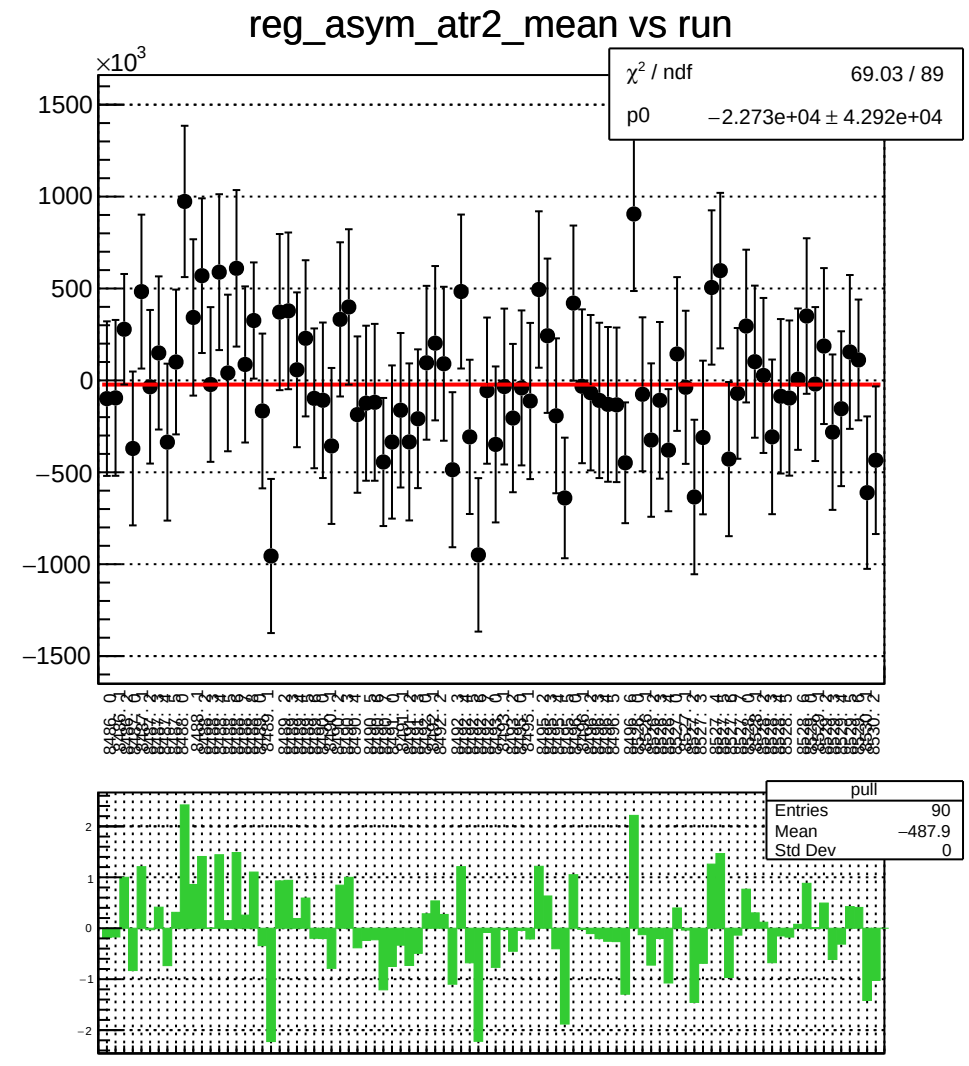

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.4 / 90
p0 −0.01587 ± 0.08991
pull
Entries 91
Mean 52.63
Std Dev 62.1
pull1D
Entries 91
Mean −0.04275
Std Dev 0.8596

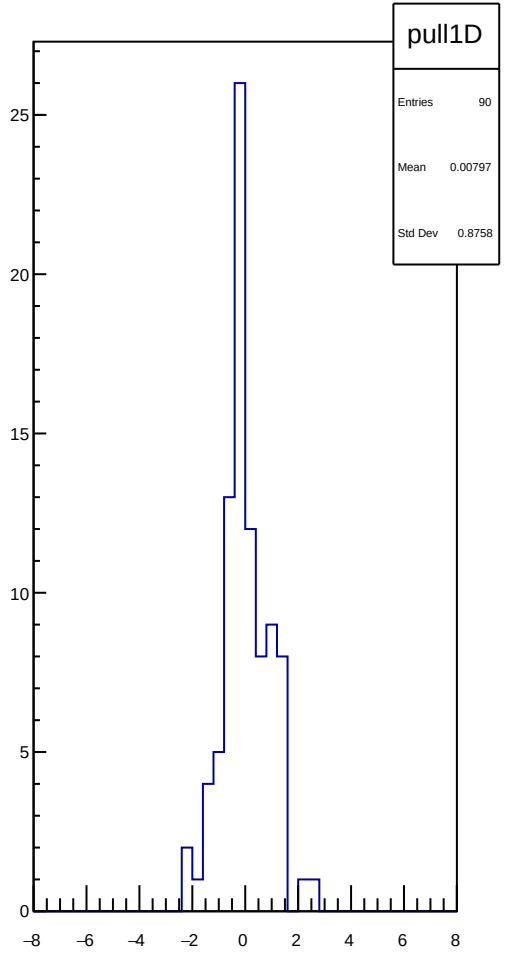

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.36e+05 / 90
p0 80.75 ± 0.06357
160
140
120
100
80
60
40

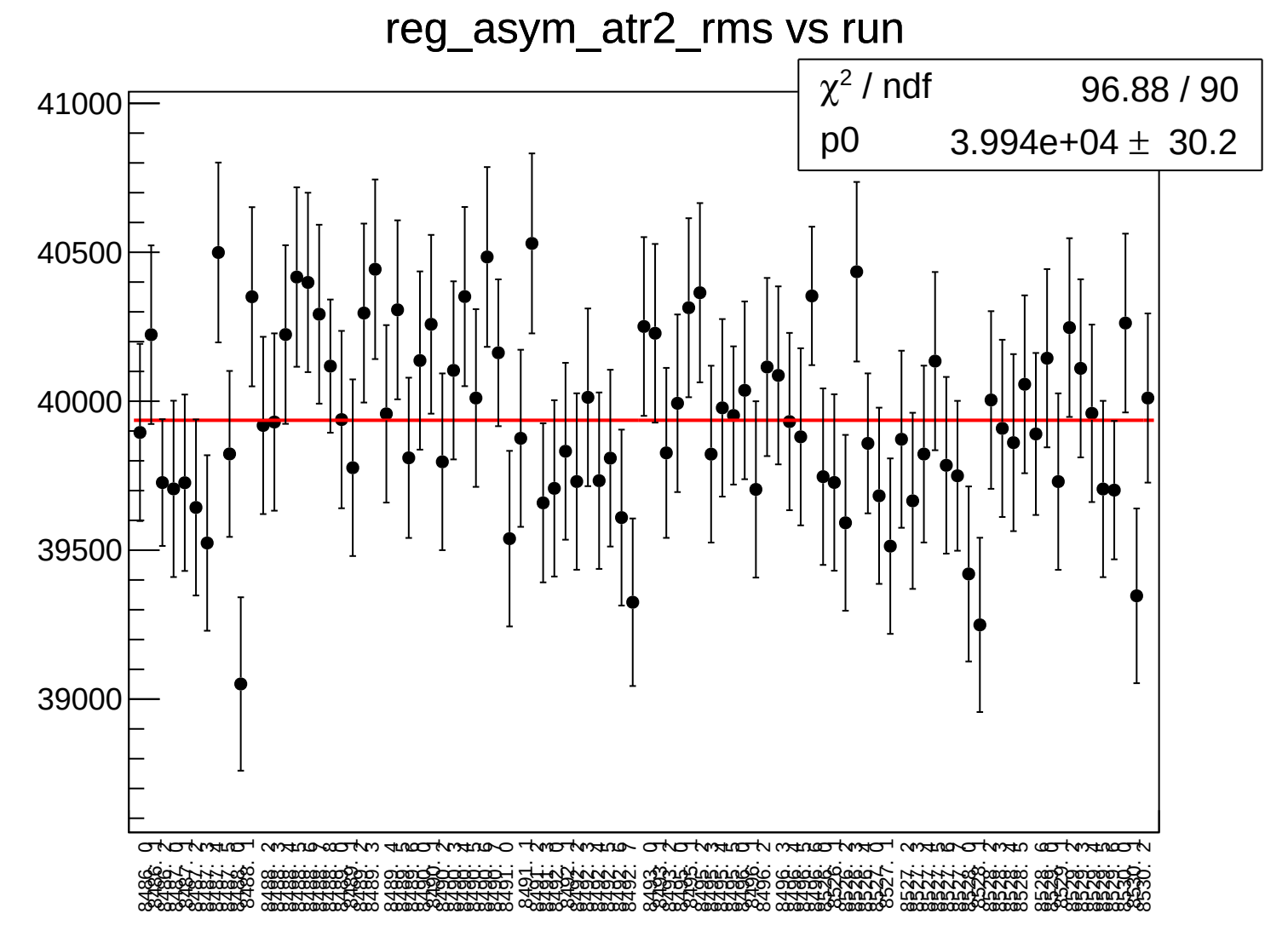

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 58.35 / 90
p0 8.317e−17 ± 8.38e−14
15
10
5
0
−5
−10
pull
Entries 91
Mean 84.02
Std Dev 28.22
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

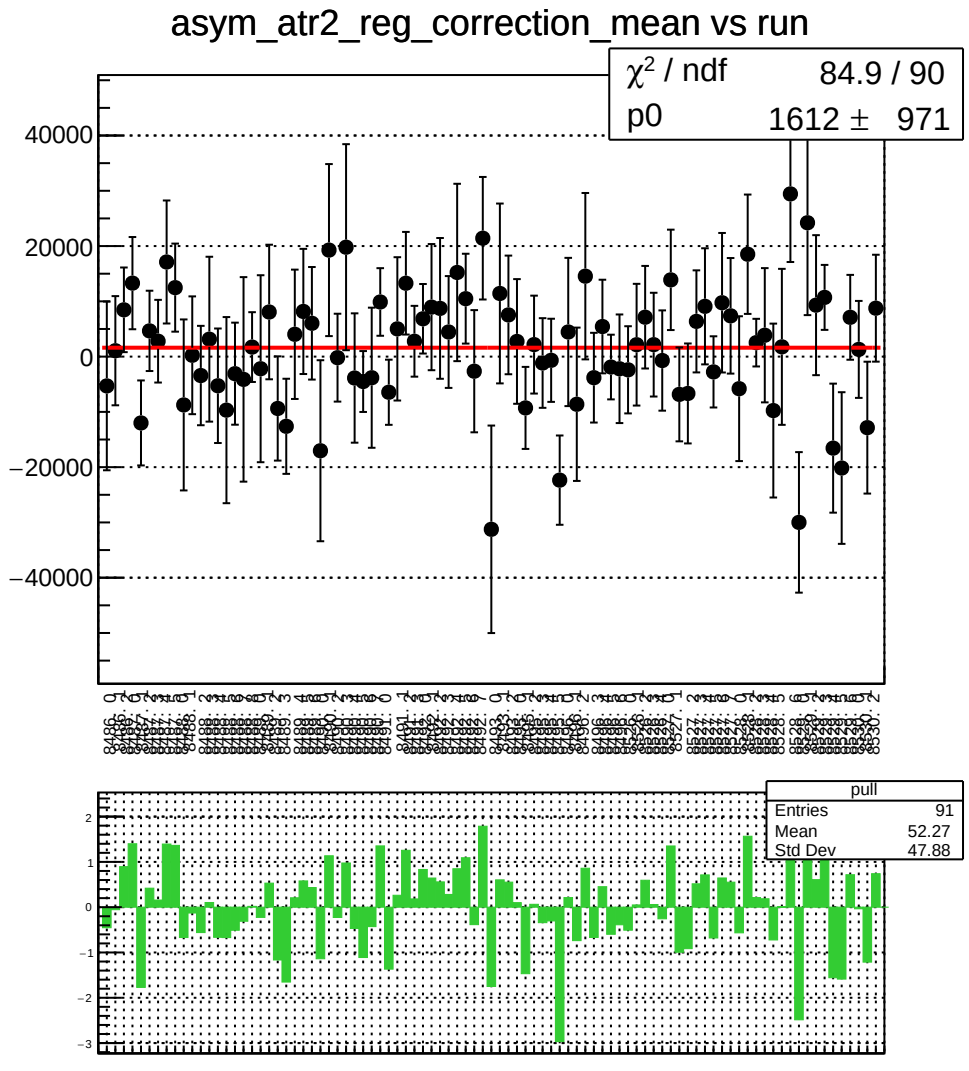

pull1D
Entries 91
Mean 0.07846
Std Dev 0.7969
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

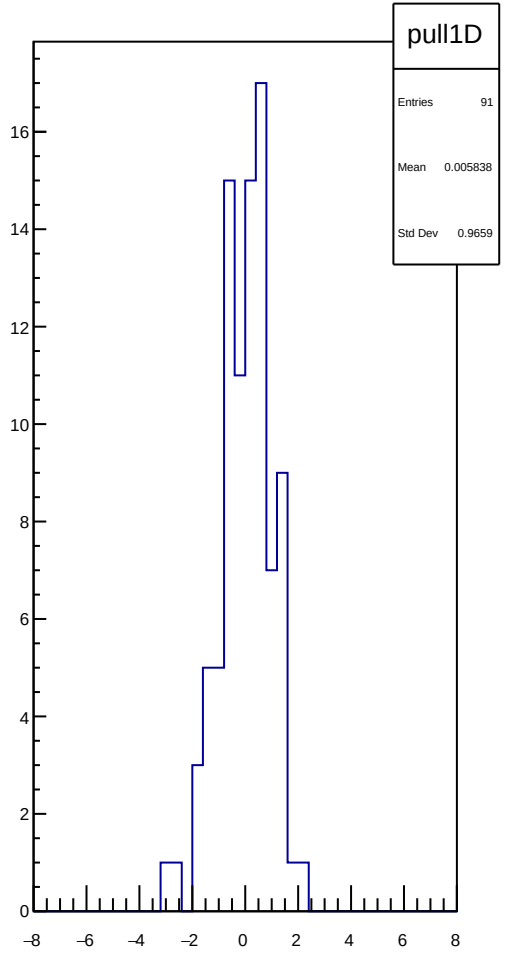

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.7
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 9.217e+05 / 90
p0 5.391e−11 ± 5.926e−14

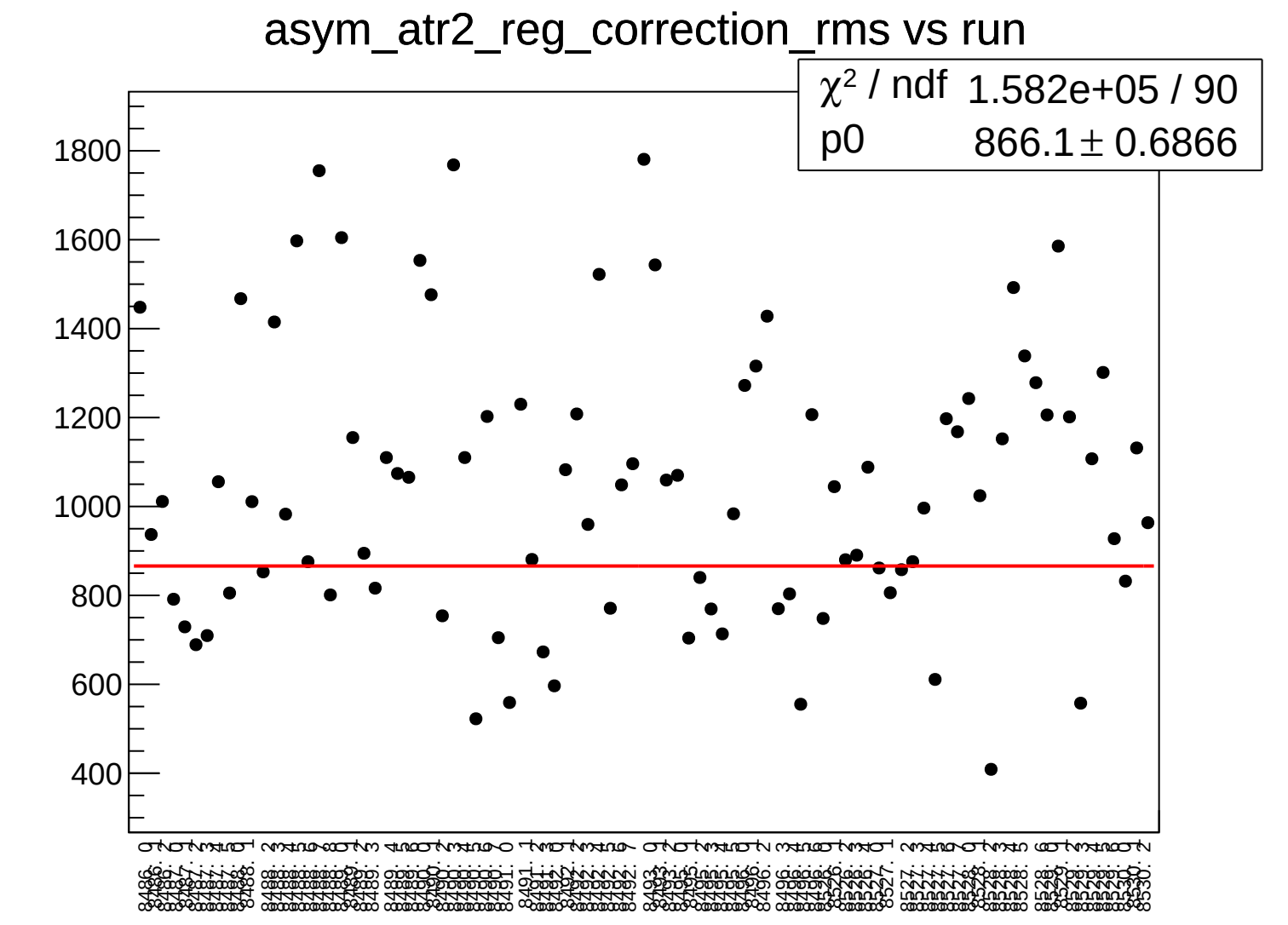

reg_asym_atr2_mean vs run
×10^3
χ² / ndf 69.03 / 89
p0 −2.273e+04 ± 4.292e+04
1500
1000
500
0
−500
−1000
−1500
pull
Entries 90
Mean −487.9
Std Dev 0
2
1
0
−1
−2

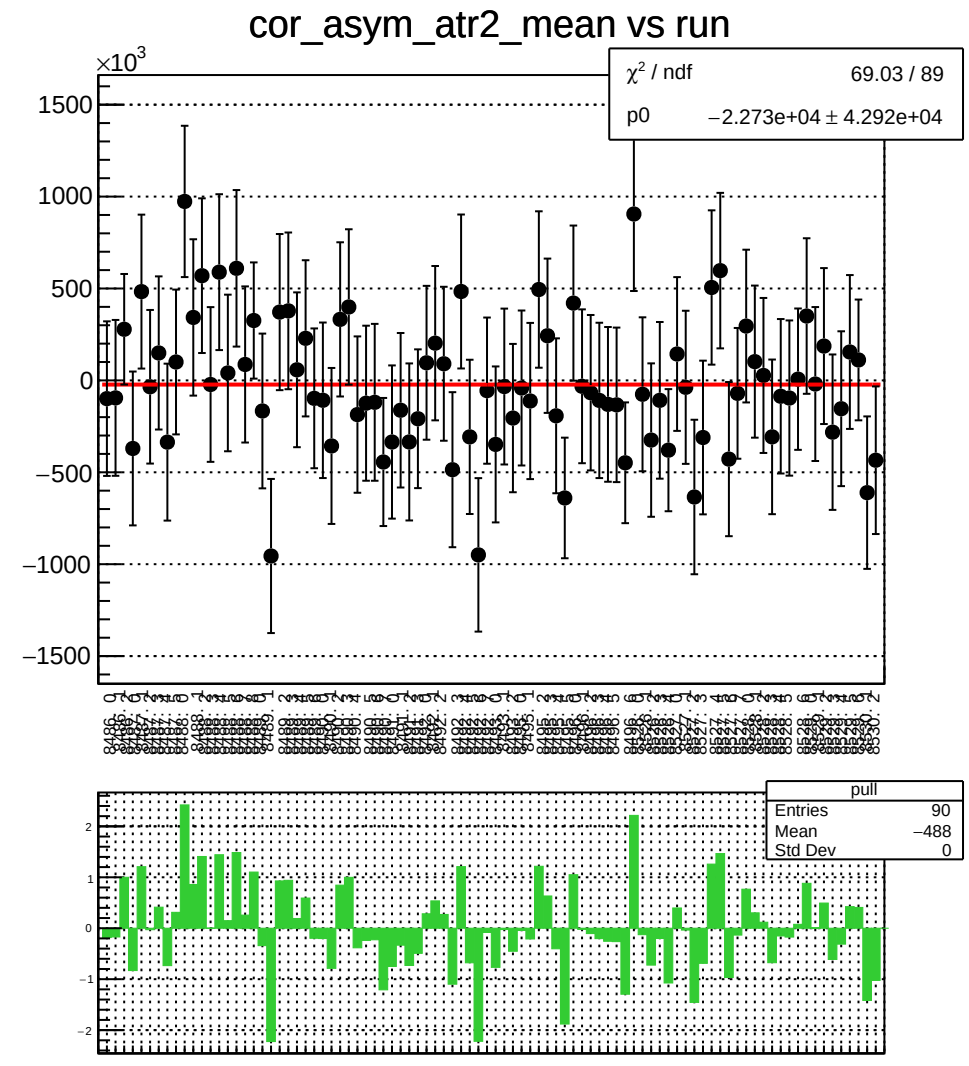

pull1D
Entries 90
Mean 0.00797
Std Dev 0.8758
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

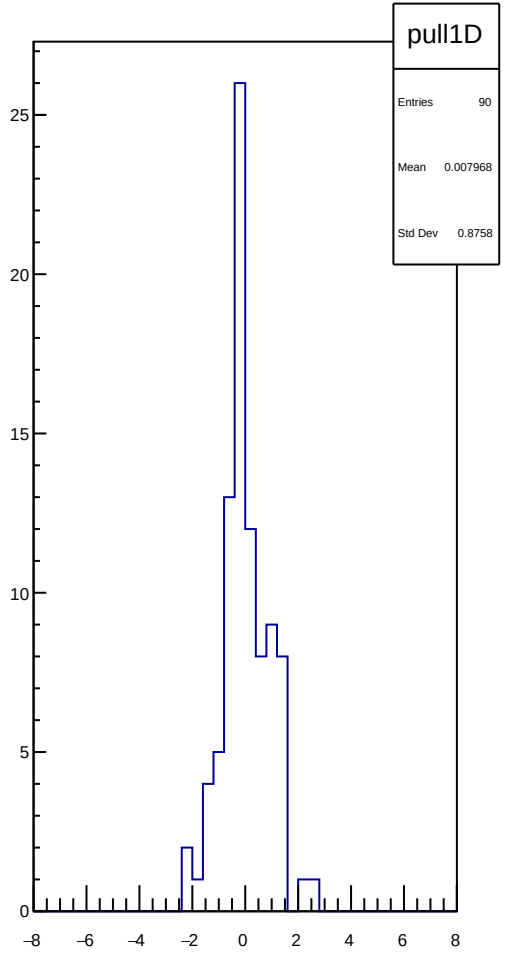

reg_asym_atr2_rms vs run
χ^2 / ndf 96.88 / 90
p0 3.994e+04 ± 30.2
41000
40500
40000
39500
39000

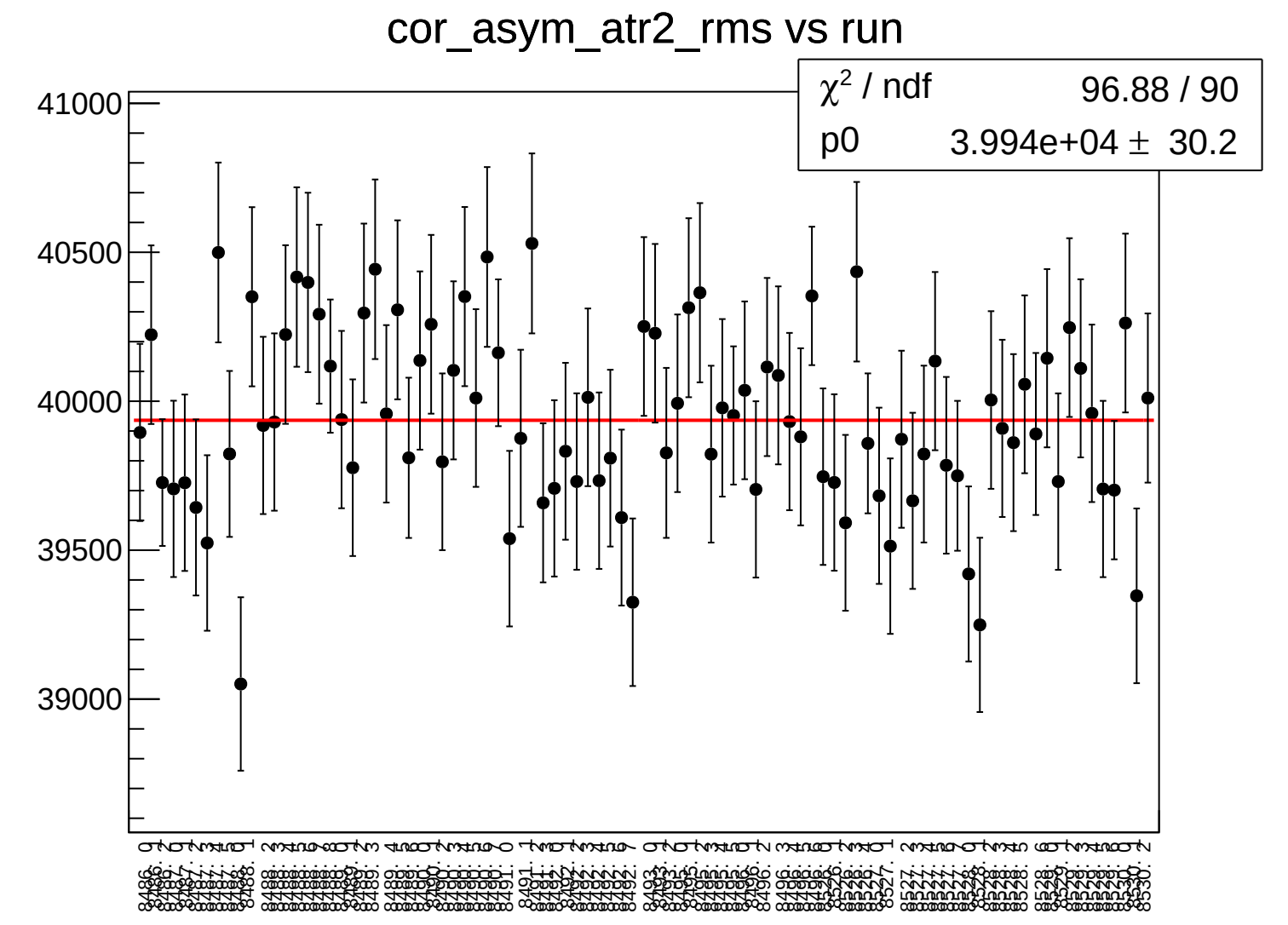

asym_atr2_reg_correction_mean vs run
χ² / ndf 84.9 / 90
p0 1612 ± 971
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 52.27
Std Dev 47.88
2
1
0
−1
−2
−3

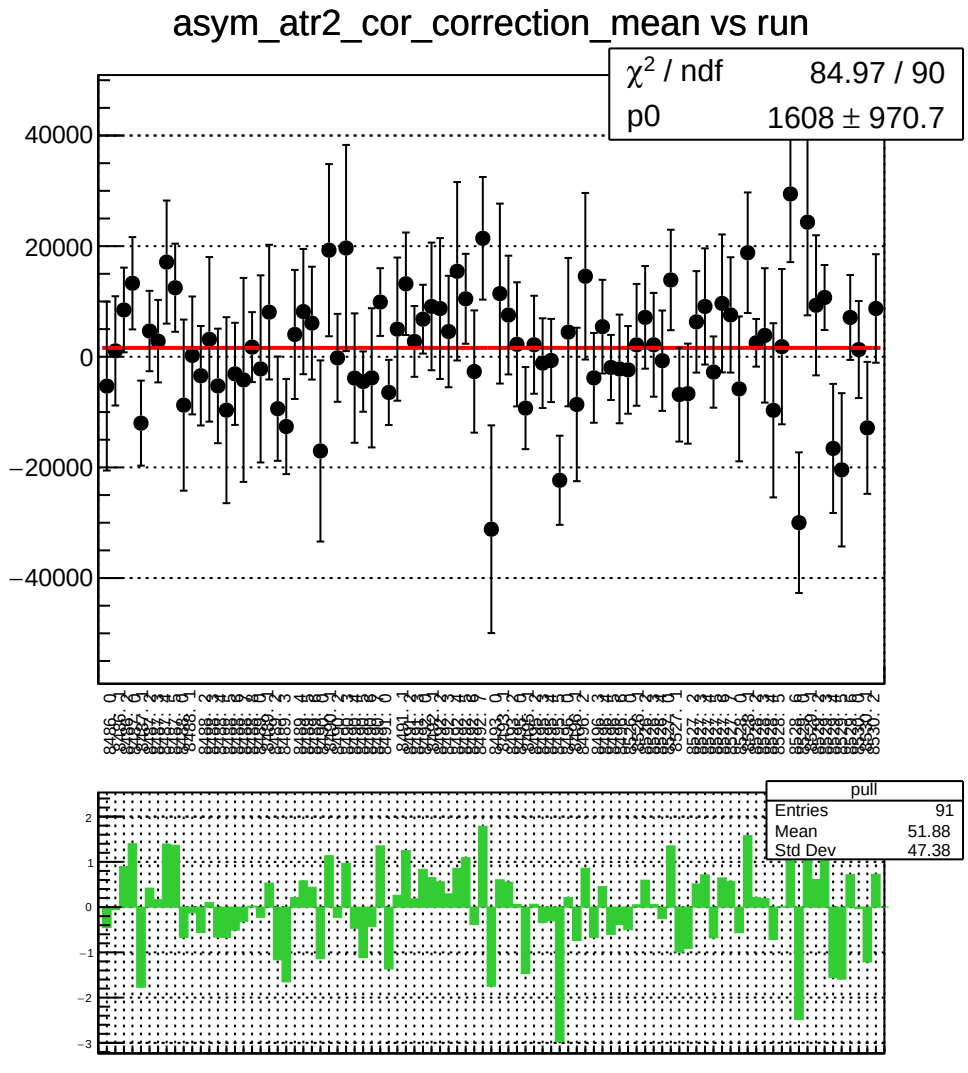

pull1D
Entries 91
Mean 0.005838
Std Dev 0.9659
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

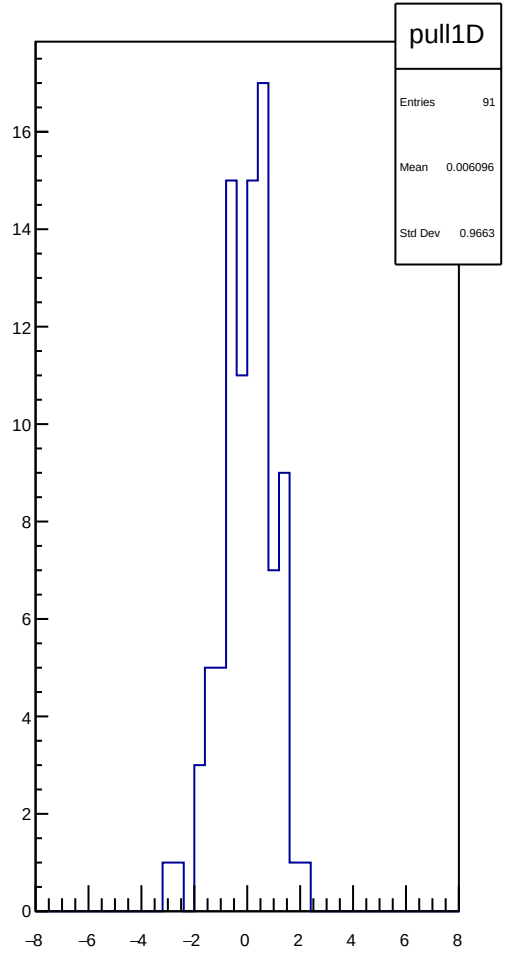

asym_atr2_reg_correction_rms vs run
χ² / ndf 1.582e+05 / 90
p0 866.1 ± 0.6866
1800
1600
1400
1200
1000
800
600
400

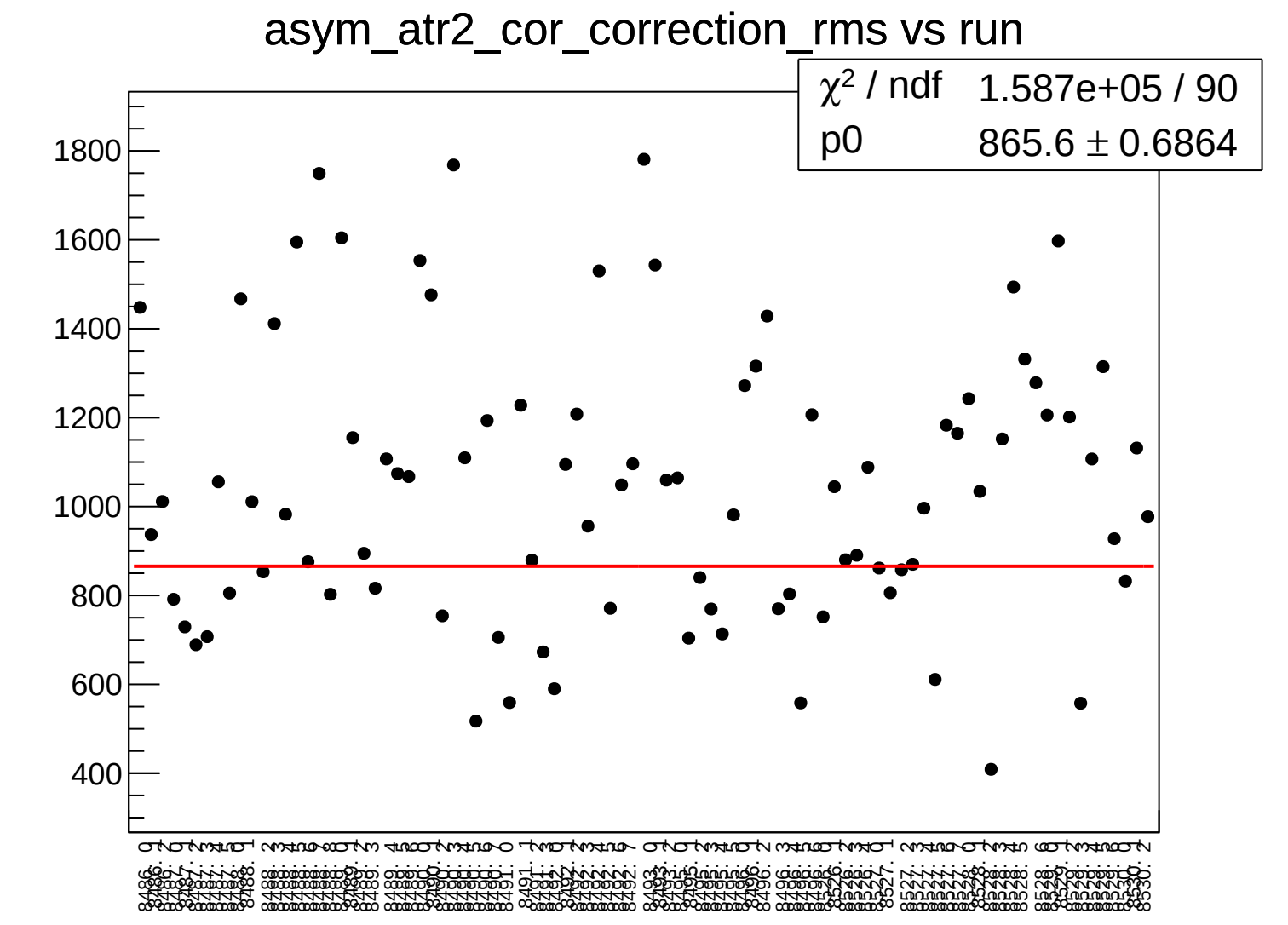

cor_asym_atr2_mean vs run
×10^3
χ² / ndf 69.03 / 89
p0 −2.273e+04 ± 4.292e+04
pull
Entries 90
Mean −488
Std Dev 0

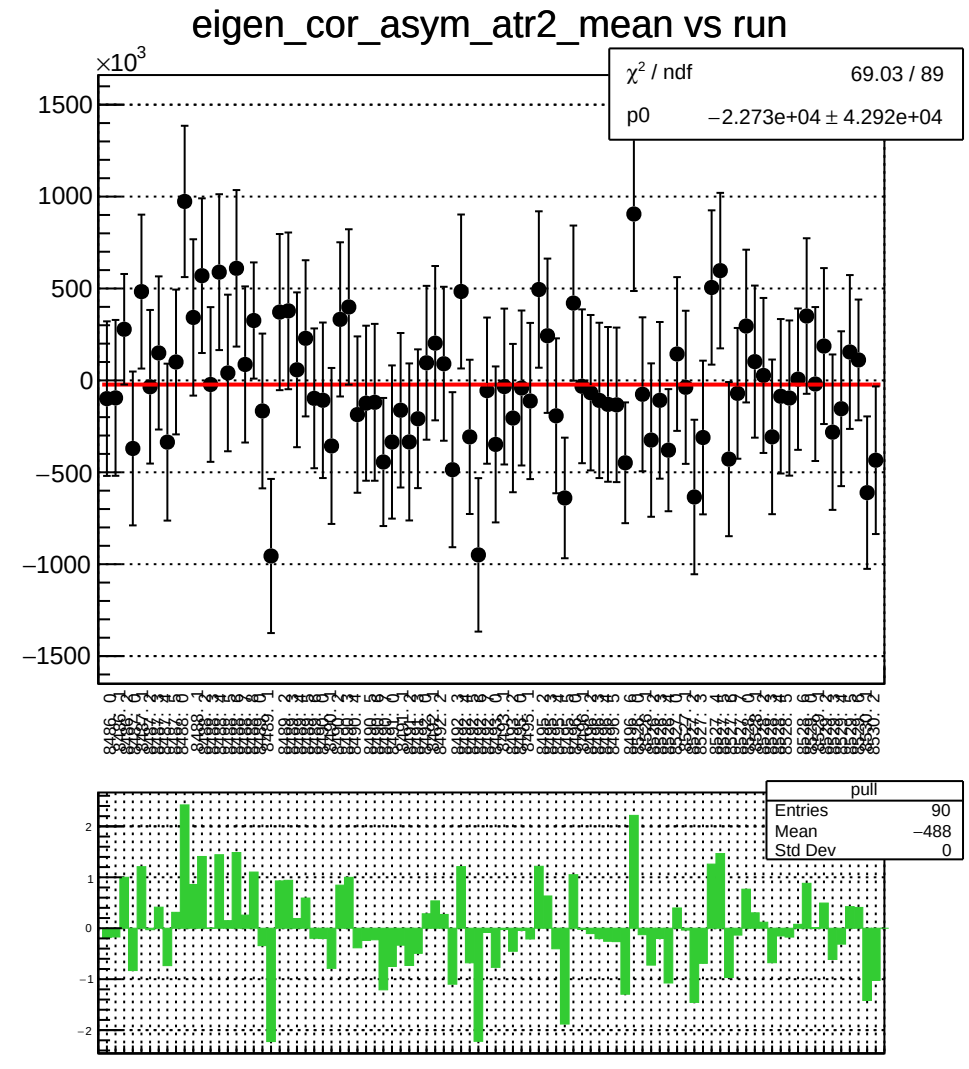

pull1D
Entries 90
Mean 0.007968
Std Dev 0.8758

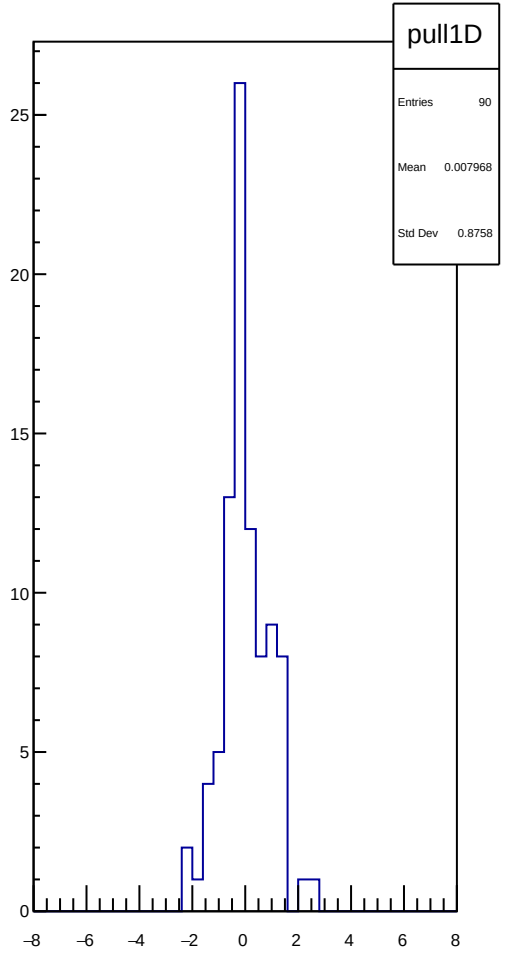

cor_asym_atr2_rms vs run
χ² / ndf 96.88 / 90
p0 3.994e+04 ± 30.2
41000
40500
40000
39500
39000

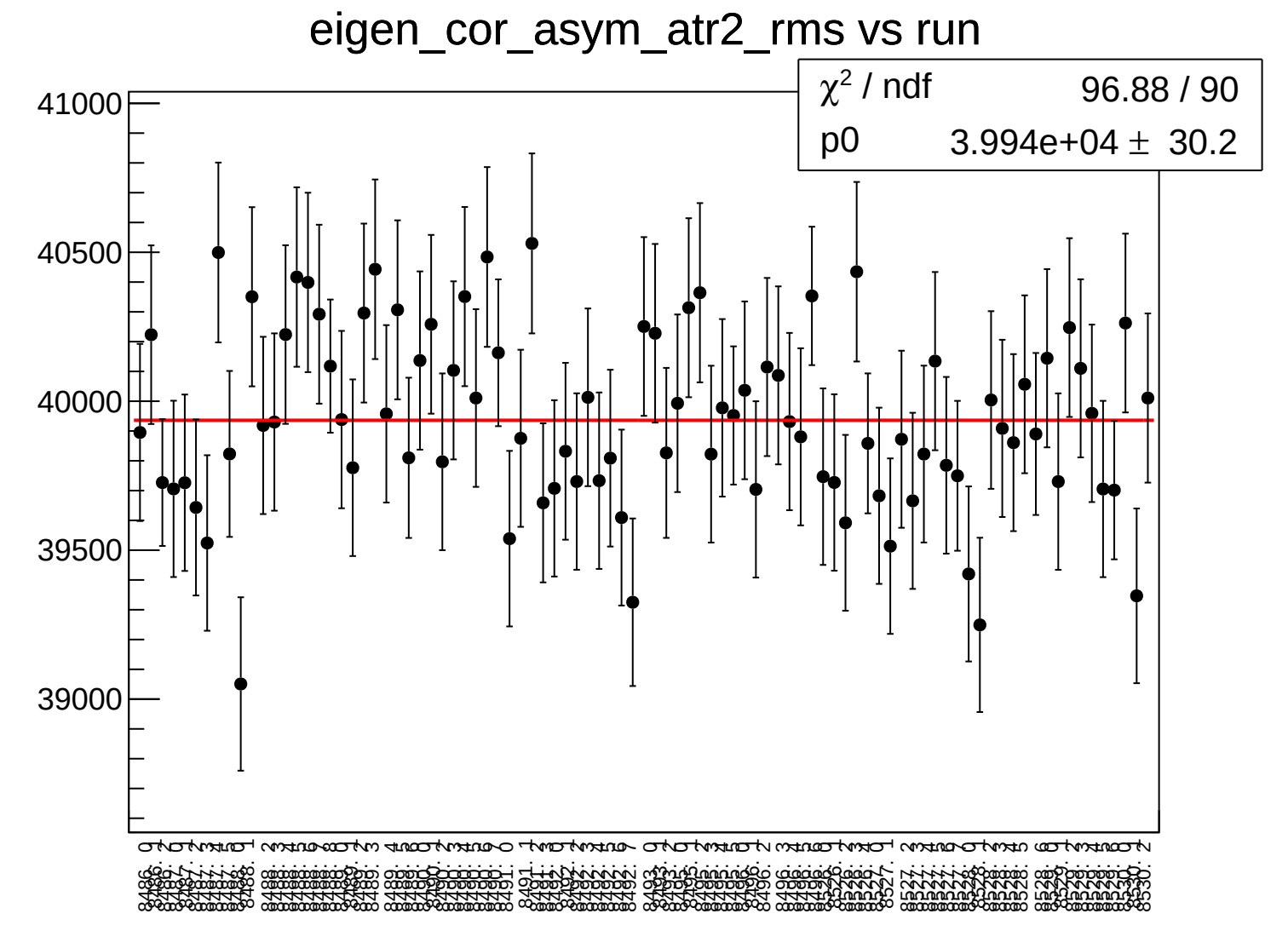

asym_atr2_cor_correction_mean vs run
χ² / ndf 84.97 / 90
p0 1608 ± 970.7
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 51.88
Std Dev 47.38
2
1
0
−1
−2
−3

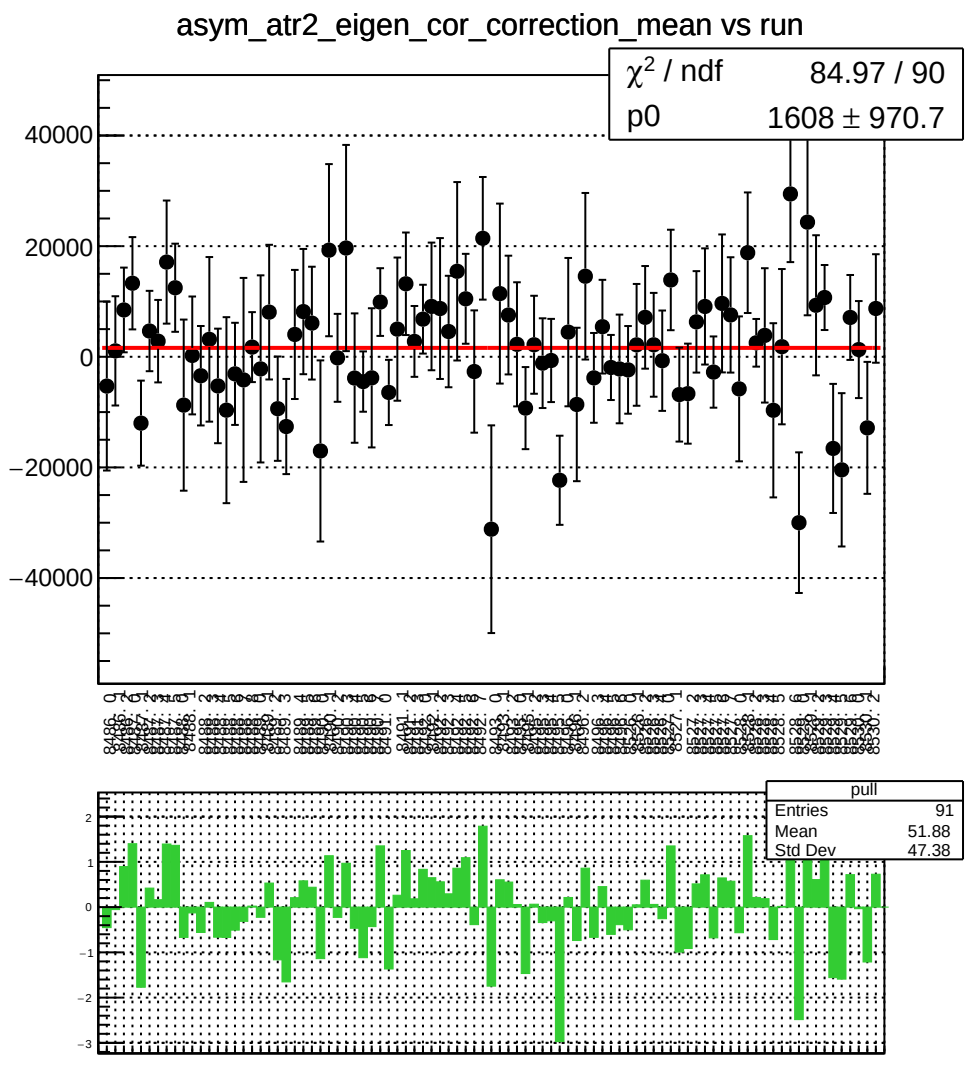

pull1D
Entries 91
Mean 0.006096
Std Dev 0.9663
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

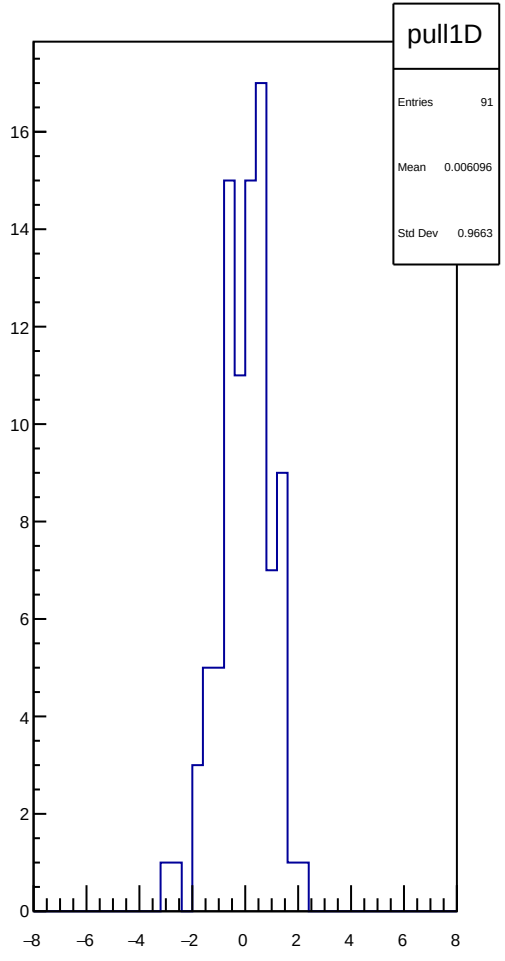

asym_atr2_cor_correction_rms vs run
χ² / ndf 1.587e+05 / 90
p0 865.6 ± 0.6864
1800
1600
1400
1200
1000
800
600
400

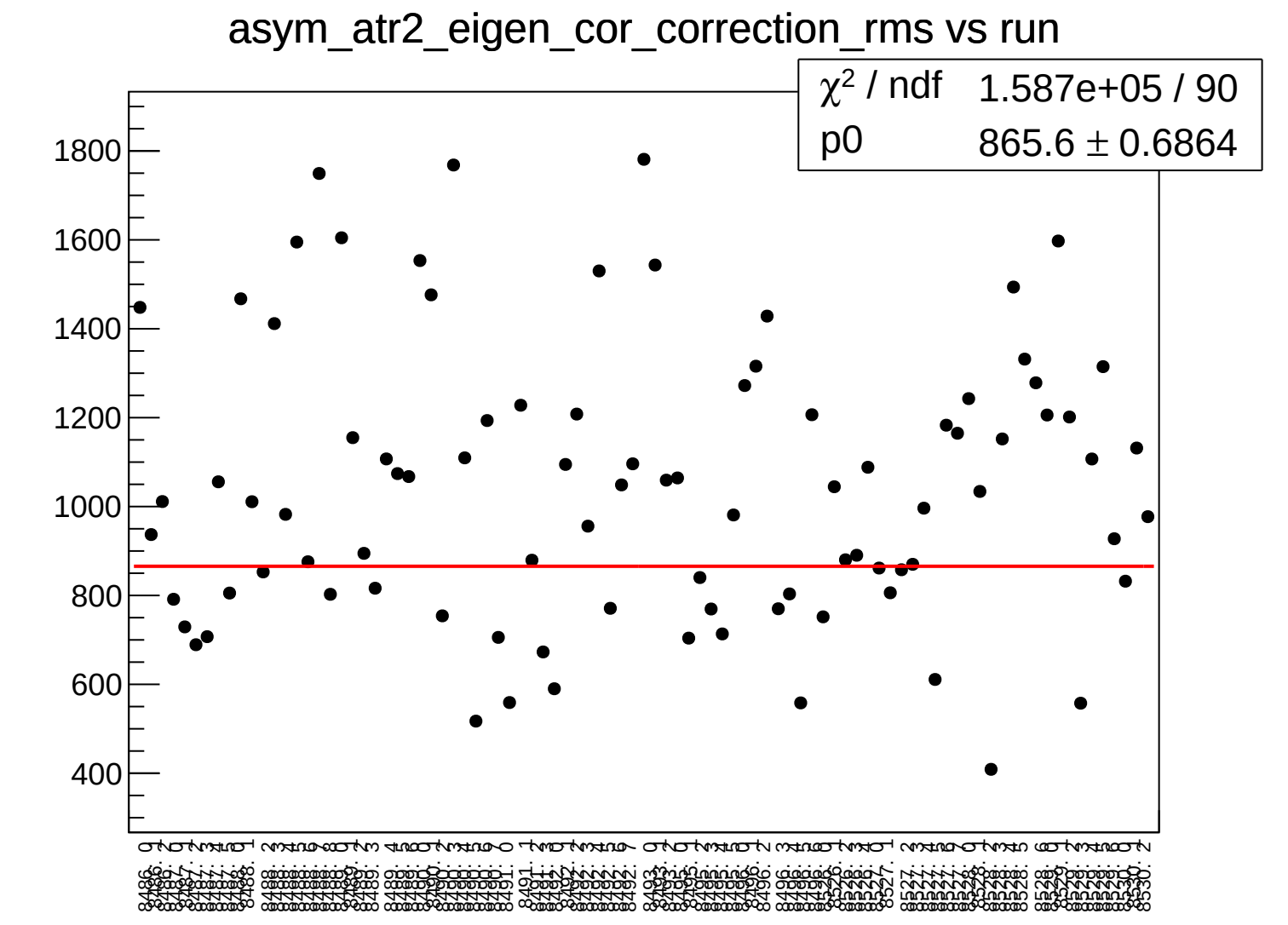

eigen_cor_asym_atr2_mean vs run
×10^3
χ² / ndf 69.03 / 89
p0 −2.273e+04 ± 4.292e+04
1500
1000
500
0
−500
−1000
−1500
pull
Entries 90
Mean −488
Std Dev 0
2
1
0
−1
−2

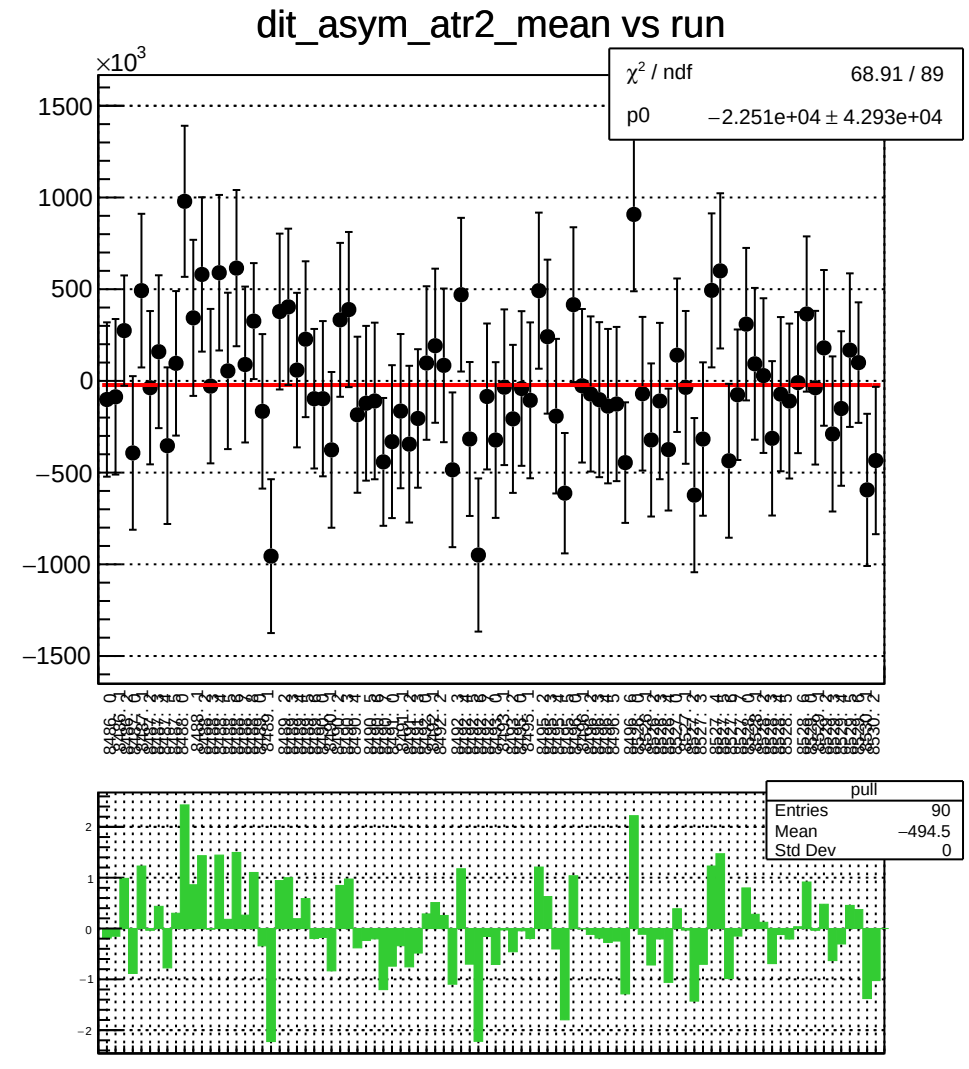

pull1D
Entries 90
Mean 0.007968
Std Dev 0.8758
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

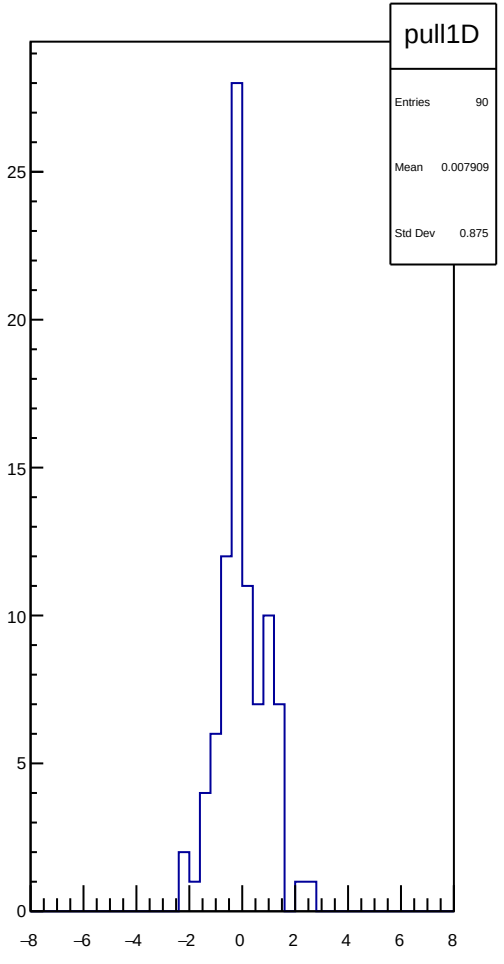

eigen_cor_asym_atr2_rms vs run
χ^2 / ndf 96.88 / 90
p0 3.994e+04 ± 30.2
41000
40500
40000
39500
39000

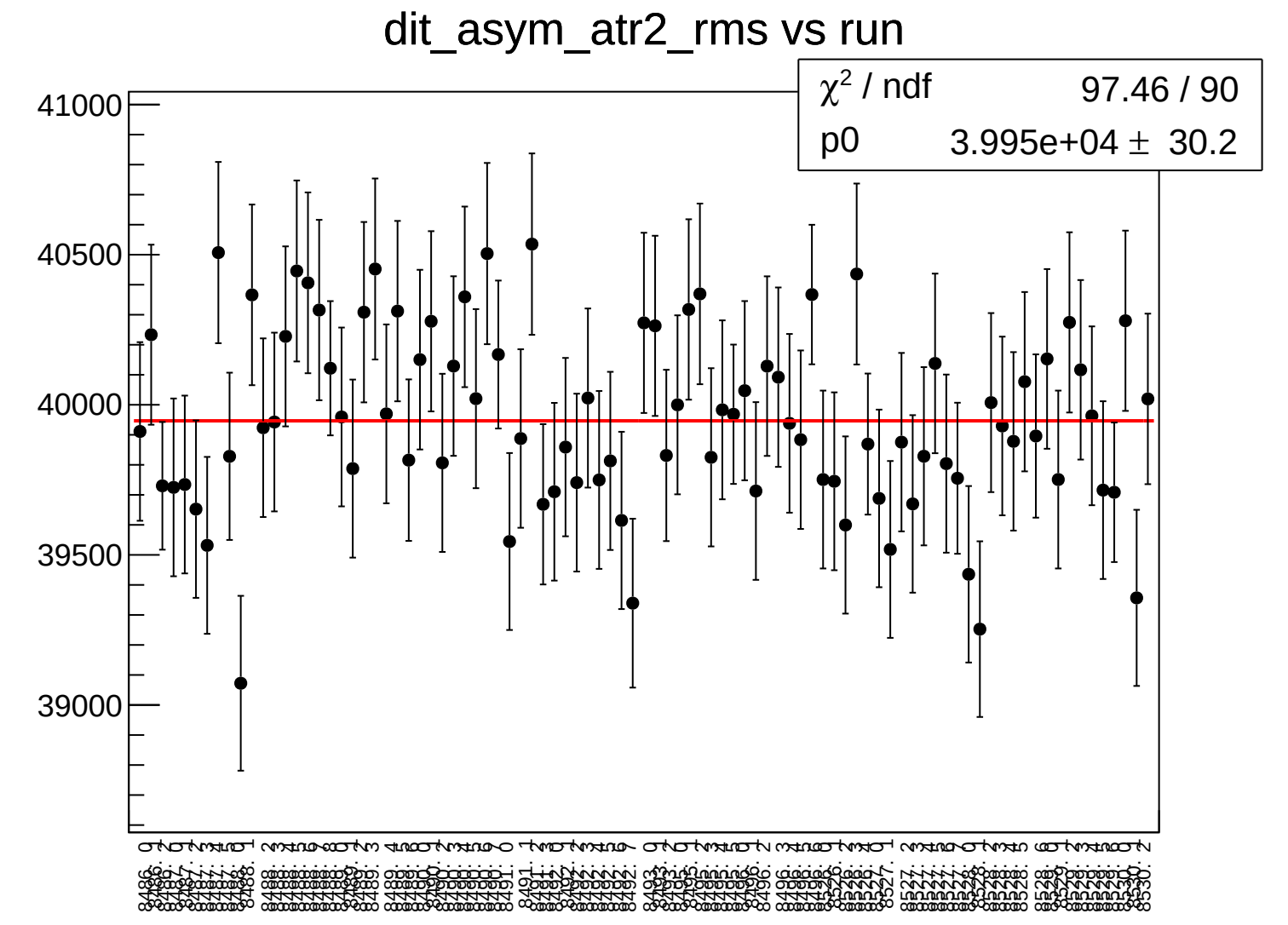

asym_atr2_eigen_cor_correction_mean vs run
χ² / ndf 84.97 / 90
p0 1608 ± 970.7
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 51.88
Std Dev 47.38
2
1
0
−1
−2
−3

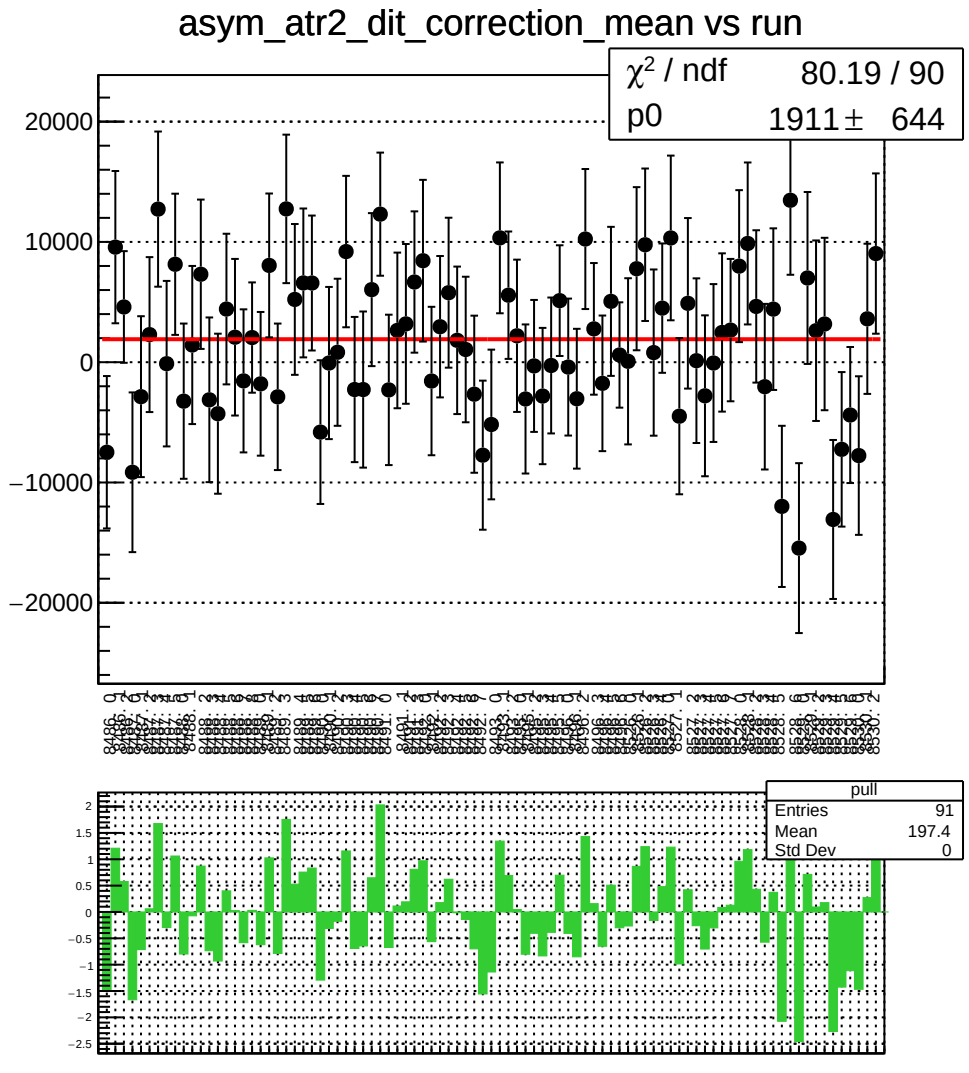

pull1D
Entries 91
Mean 0.006096
Std Dev 0.9663
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

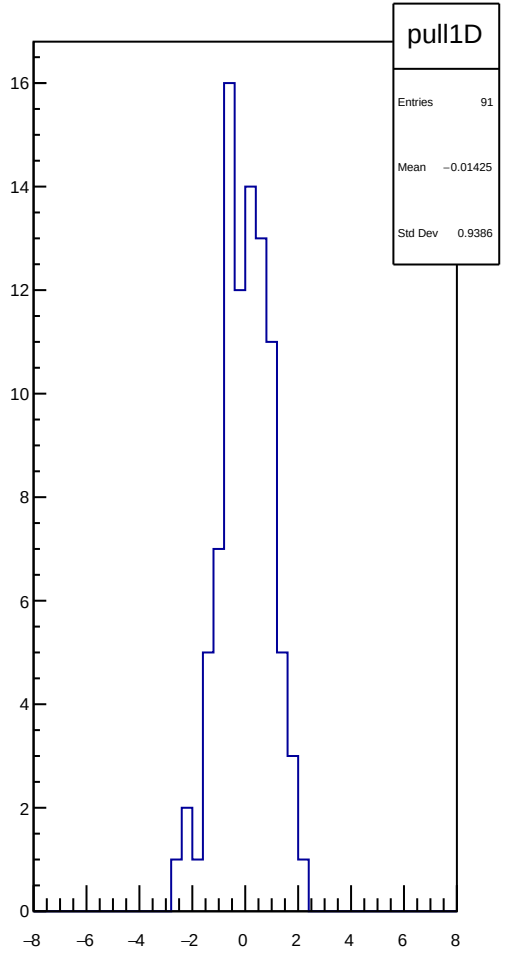

asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 1.587e+05 / 90
p0 865.6 ± 0.6864
1800
1600
1400
1200
1000
800
600
400

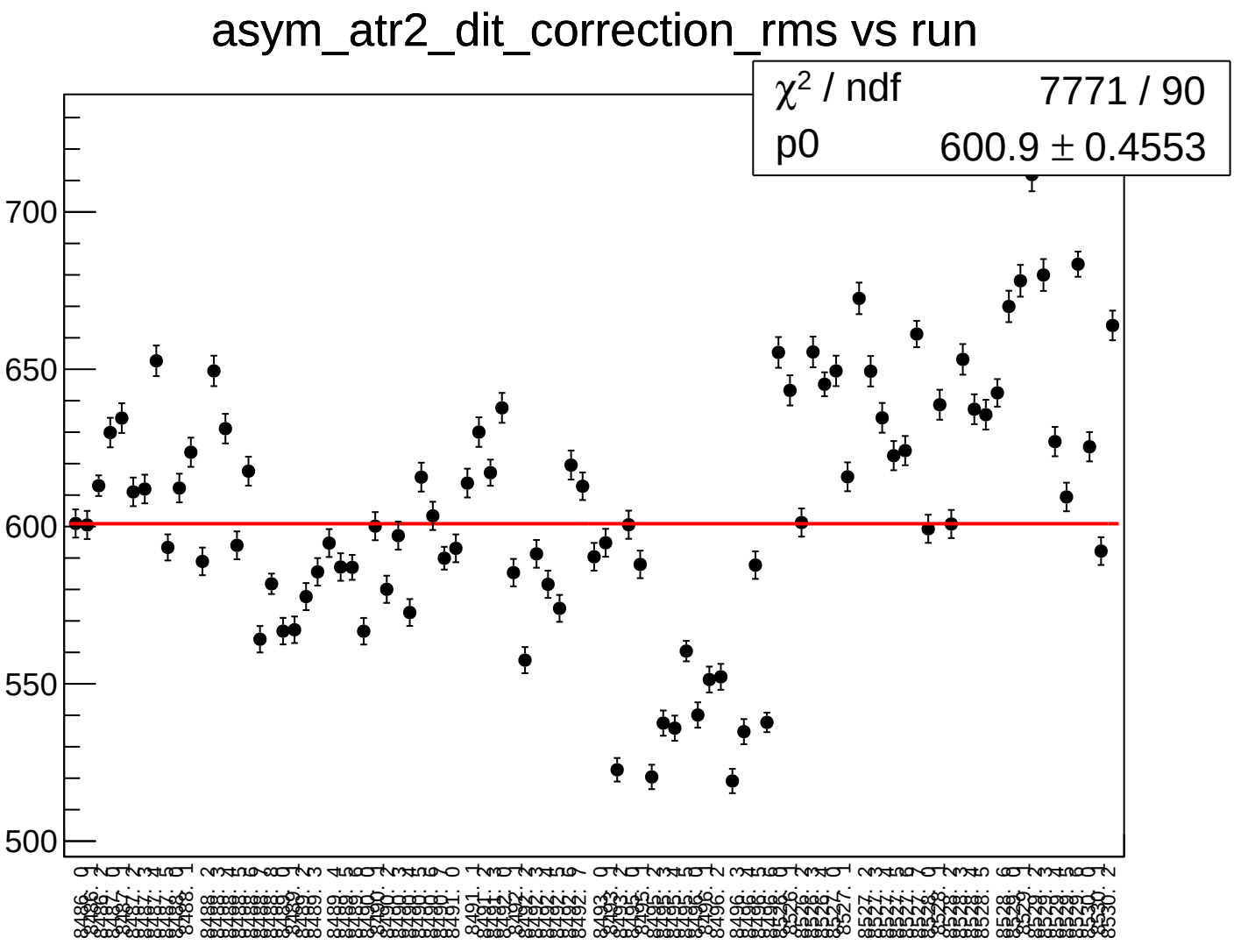

dit_asym_atr2_mean vs run
×10^3
χ² / ndf 68.91 / 89
p0 −2.251e+04 ± 4.293e+04
1500
1000
500
0
−500
−1000
−1500
pull
Entries 90
Mean −494.5
Std Dev 0
2
1
0
−1
−2

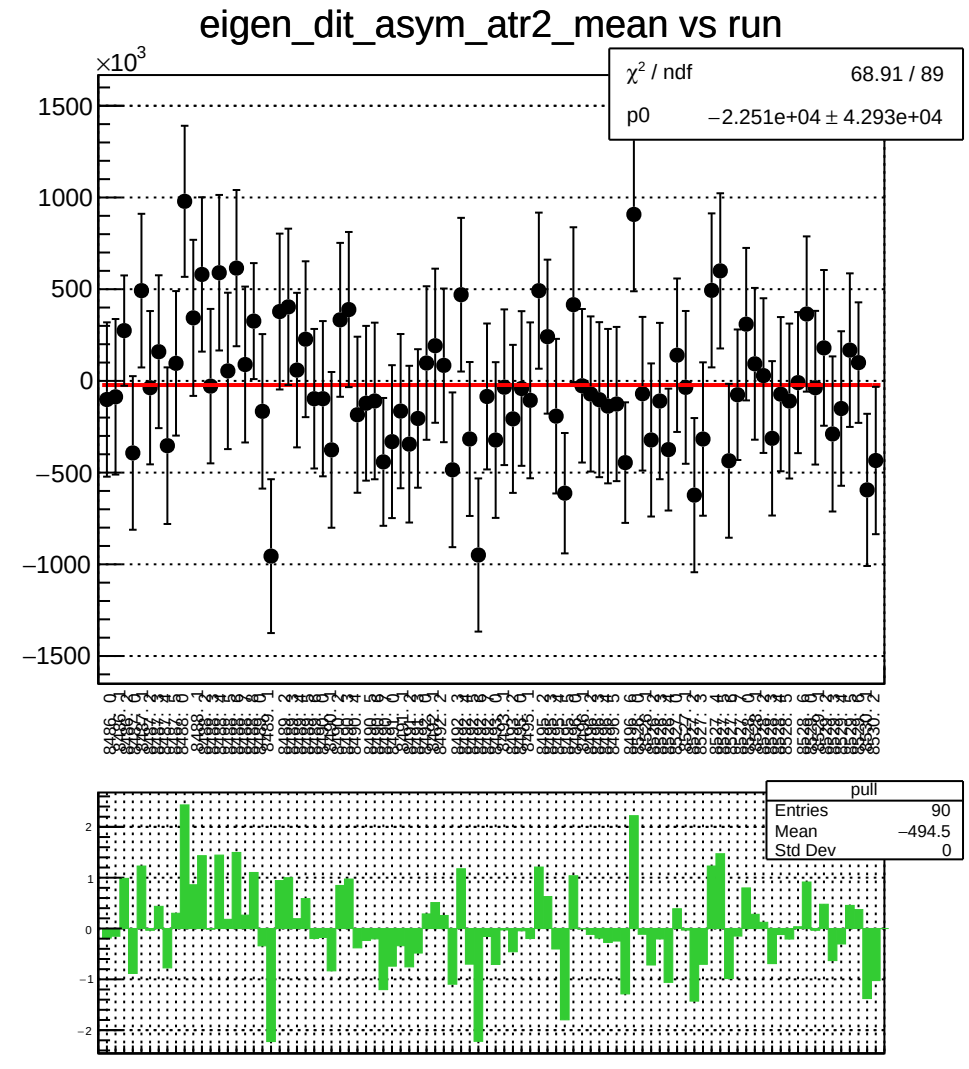

pull1D
Entries 90
Mean 0.007909
Std Dev 0.875
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

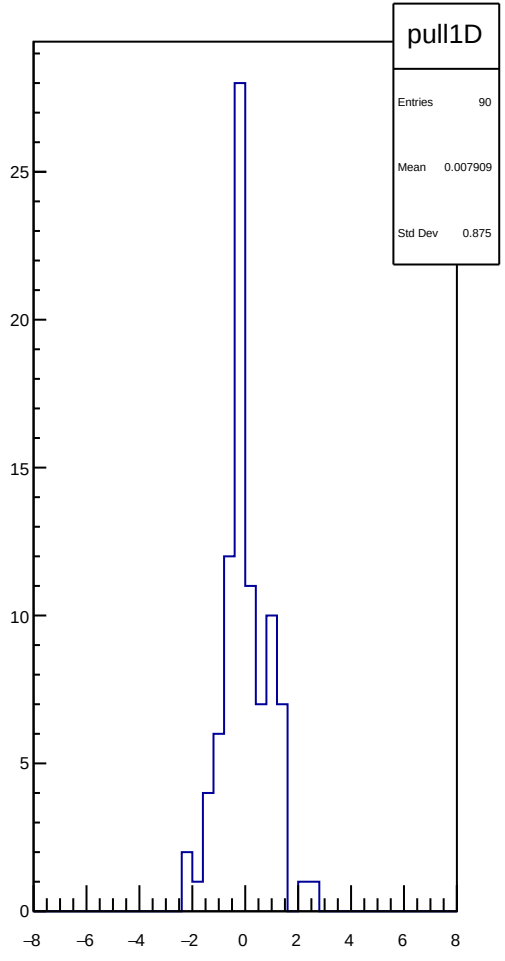

dit_asym_atr2_rms vs run
χ^2 / ndf 97.46 / 90
p0 3.995e+04 ± 30.2
41000
40500
40000
39500
39000

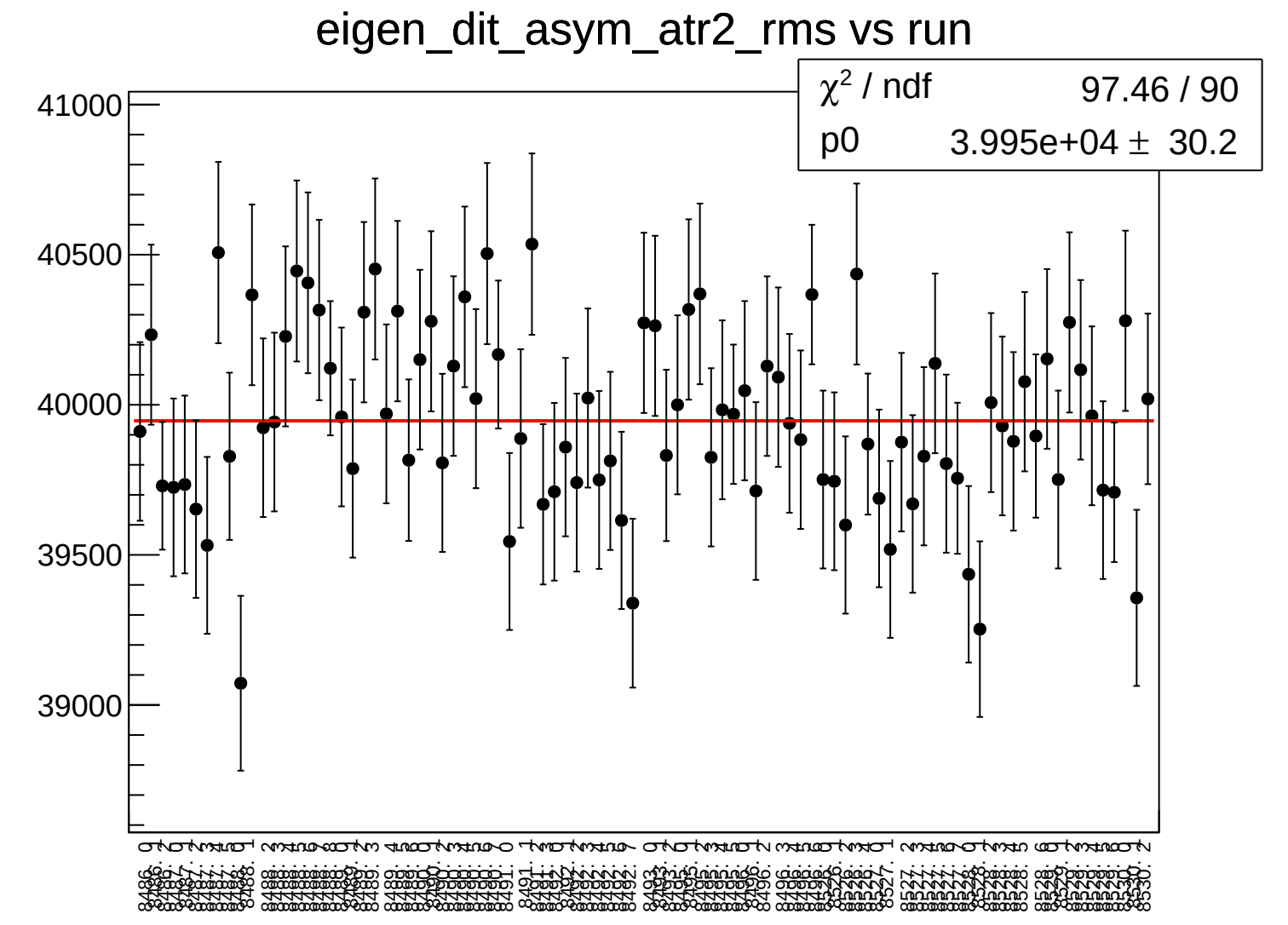

asym_atr2_dit_correction_mean vs run
χ² / ndf 80.19 / 90
p0 1911 ± 644
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 197.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

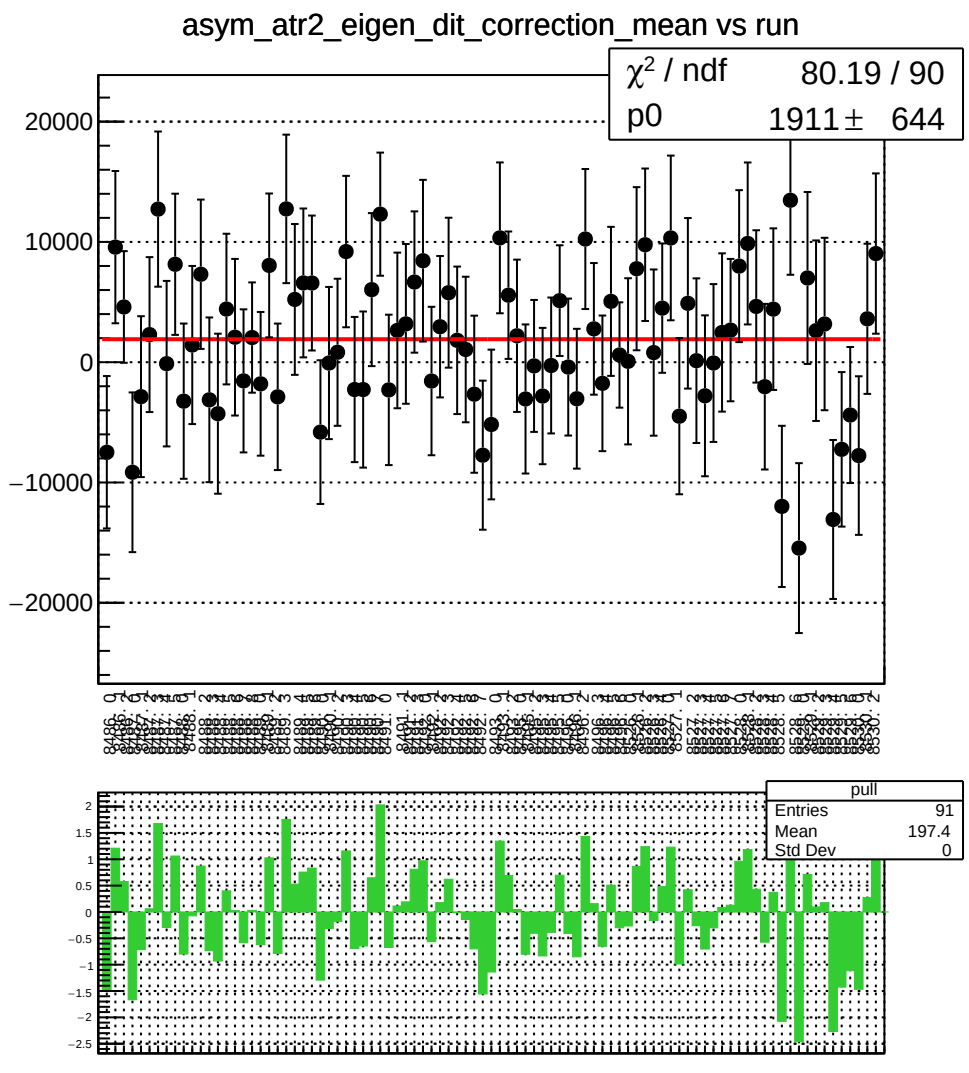

pull1D
Entries 91
Mean −0.01425
Std Dev 0.9386
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

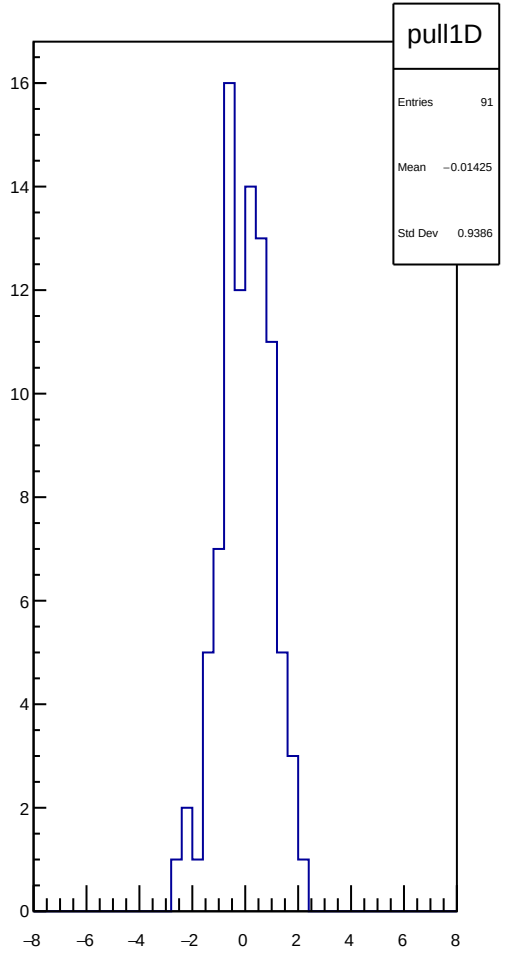

asym_atr2_dit_correction_rms vs run
χ² / ndf 7771 / 90
p0 600.9 ± 0.4553
700
650
600
550
500

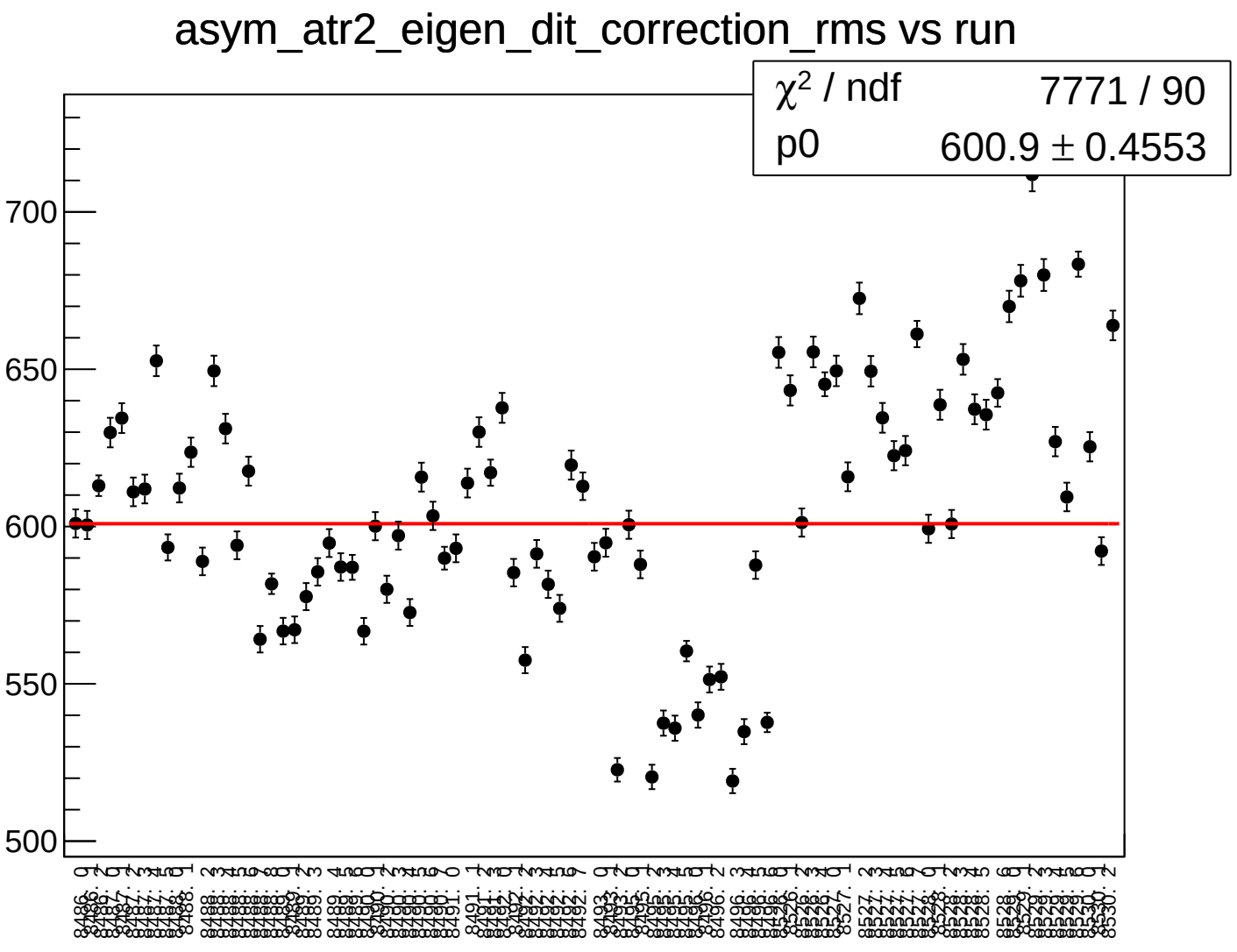

eigen_dit_asym_atr2_mean vs run
×10^3
χ² / ndf 68.91 / 89
p0 −2.251e+04 ± 4.293e+04
1500
1000
500
0
−500
−1000
−1500
pull
Entries 90
Mean −494.5
Std Dev 0
2
1
0
−1
−2

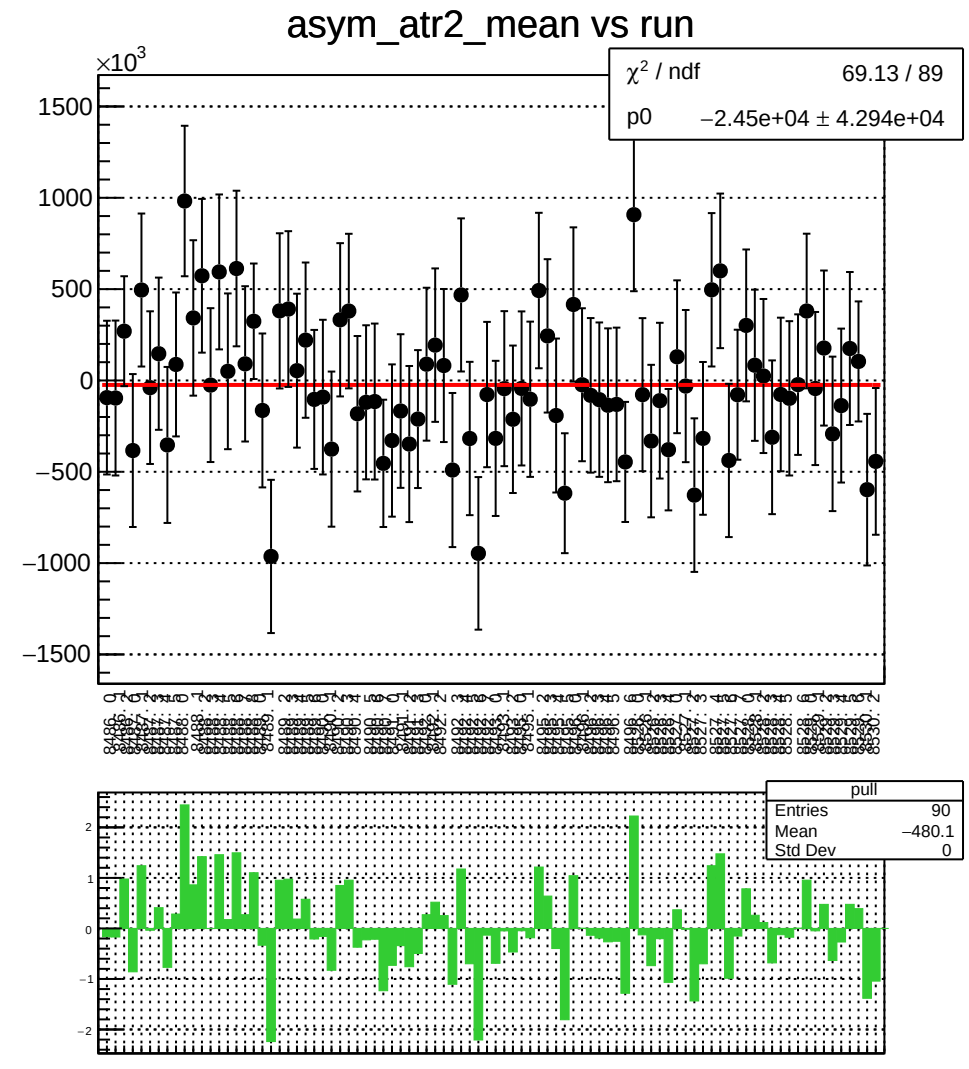

pull1D
Entries 90
Mean 0.007909
Std Dev 0.875
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

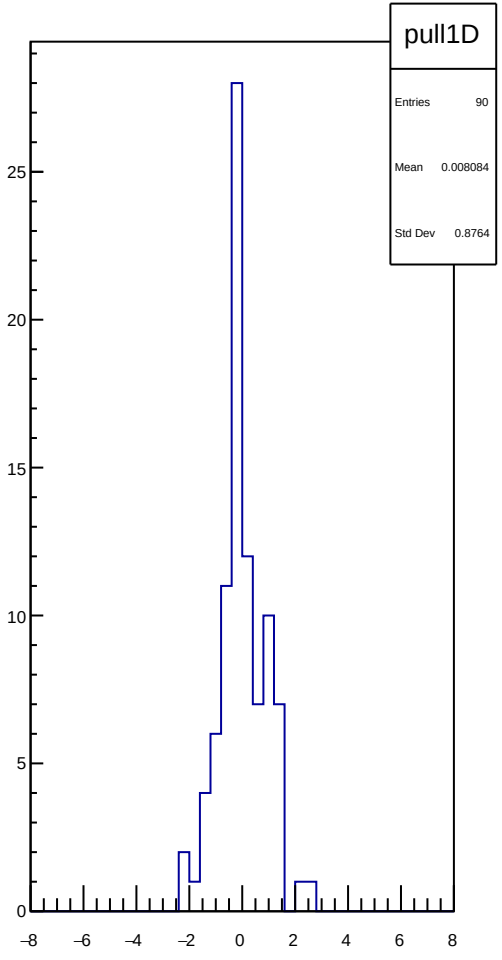

eigen_dit_asym_atr2_rms vs run
χ^2 / ndf 97.46 / 90
p0 3.995e+04 ± 30.2
41000
40500
40000
39500
39000

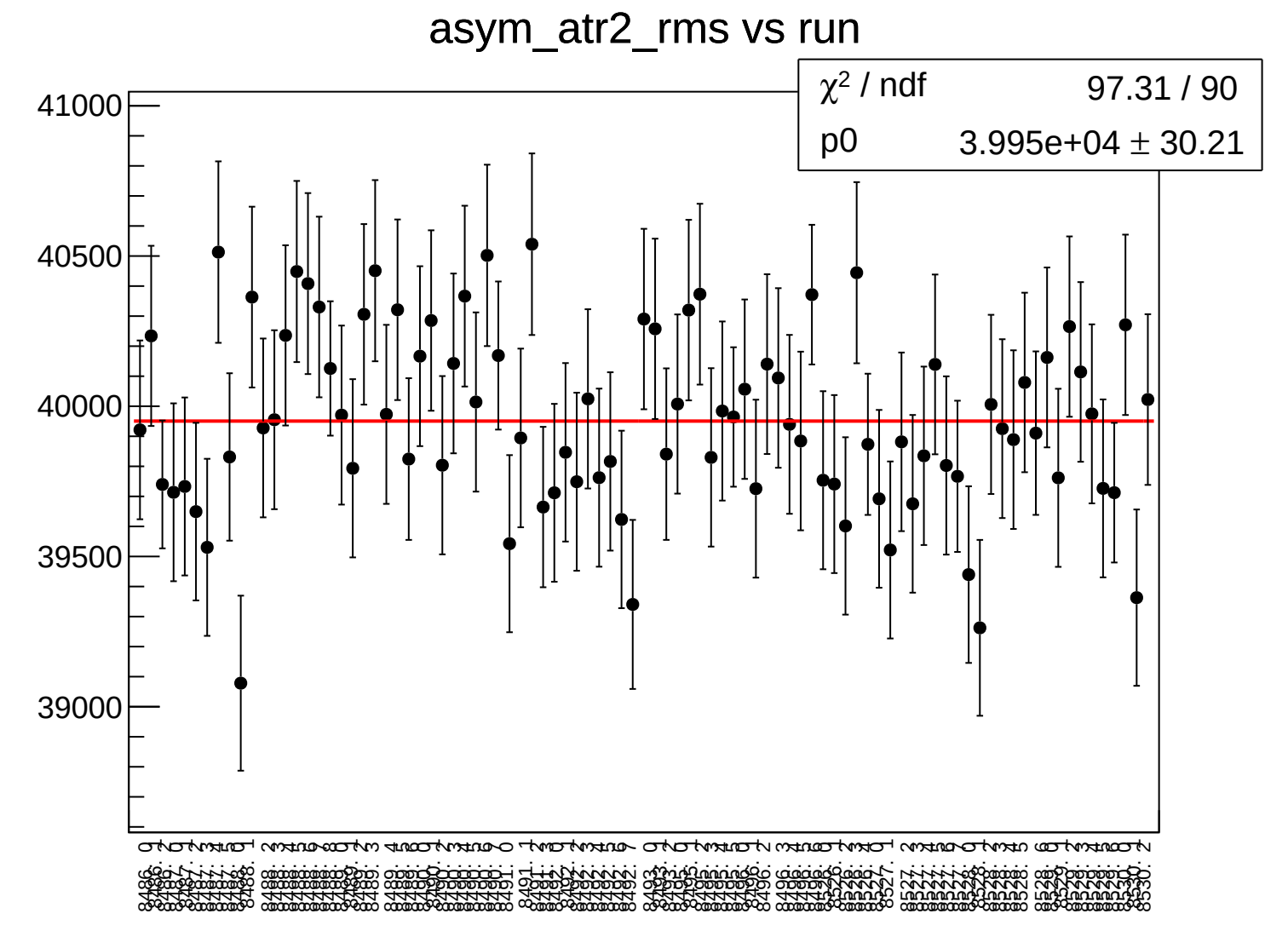

asym_atr2_eigen_dit_correction_mean vs run
χ² / ndf 80.19 / 90
p0 1911 ± 644
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 197.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

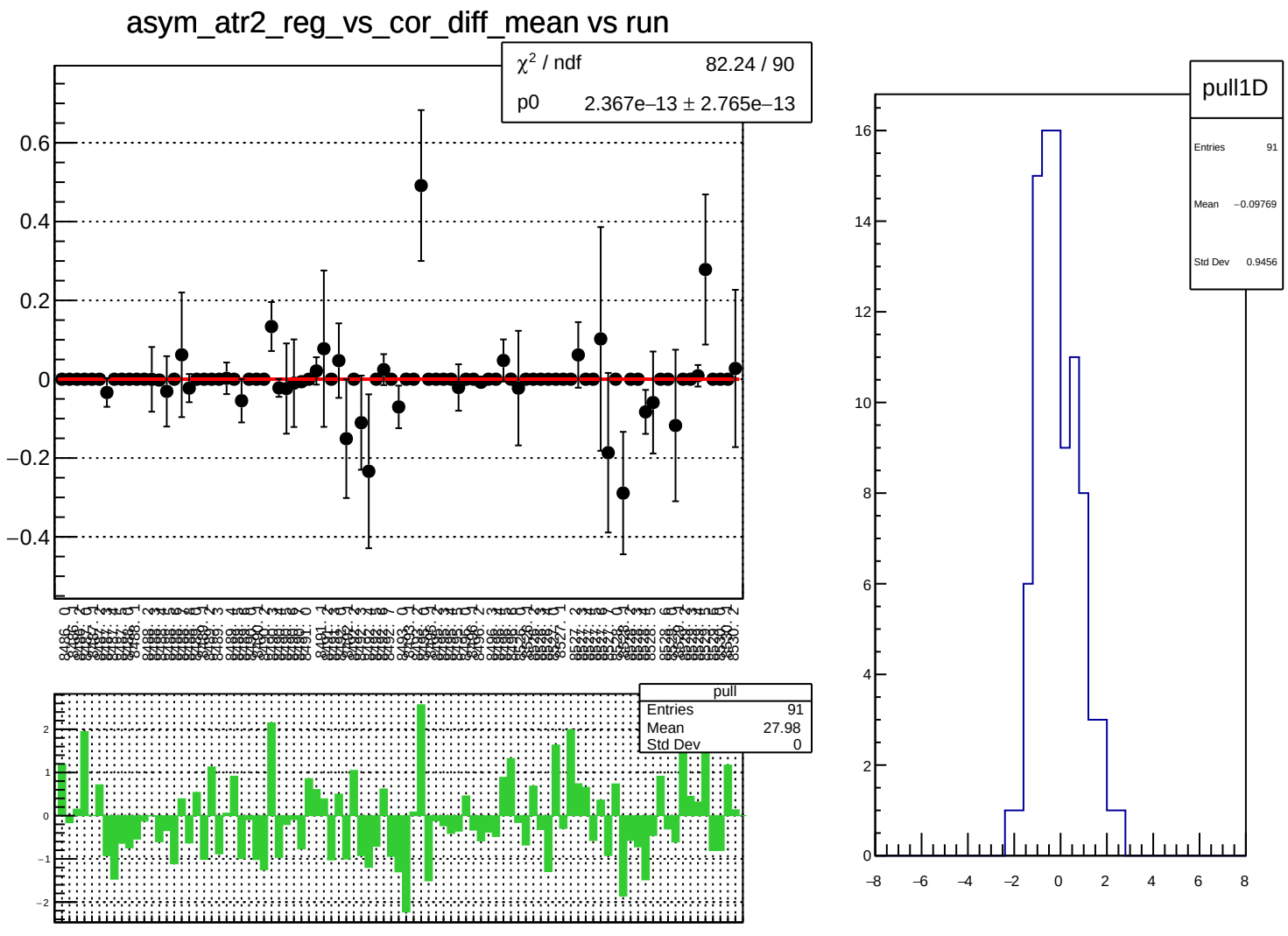

pull1D
Entries 91
Mean −0.01425
Std Dev 0.9386
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

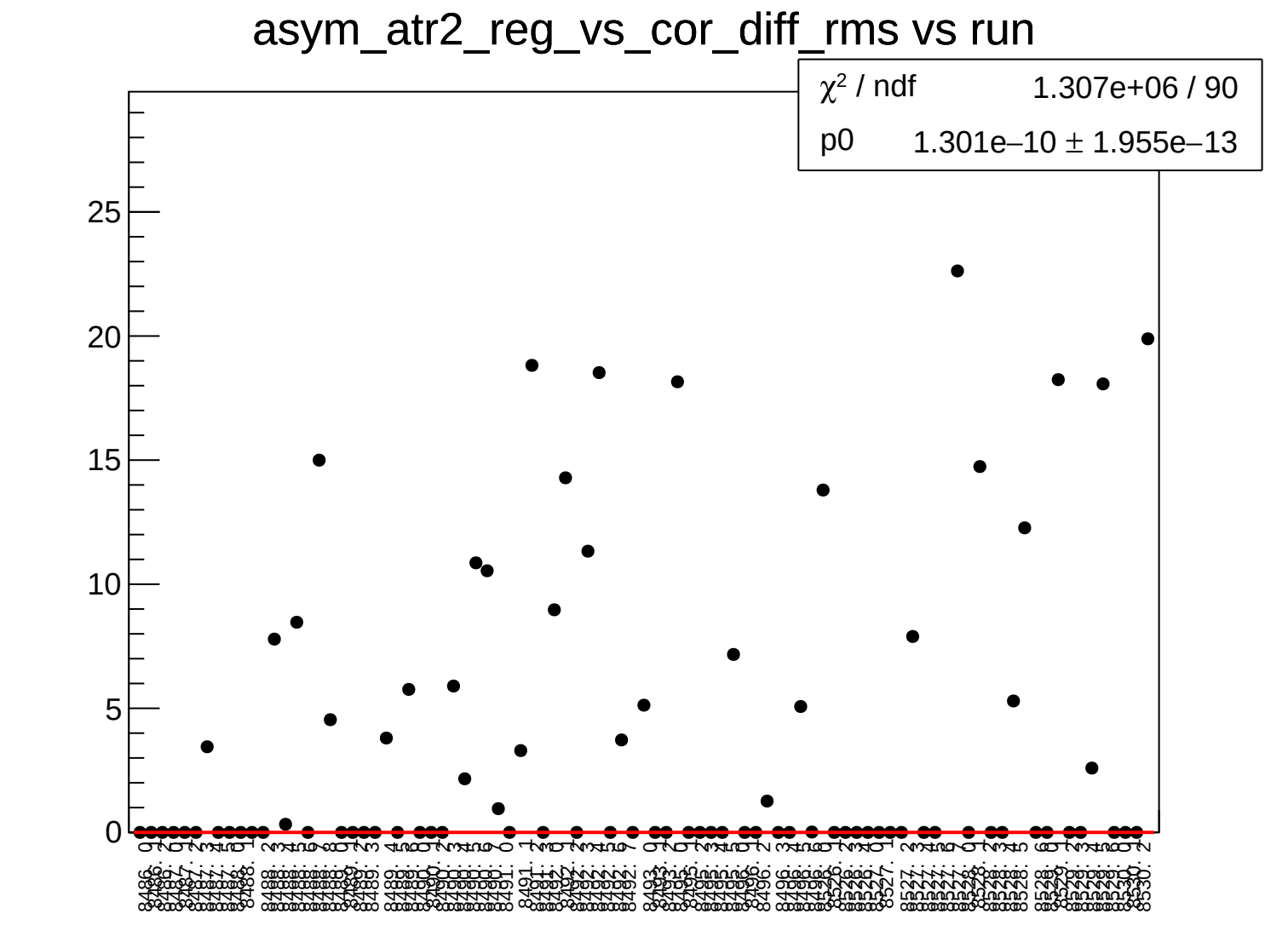

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 7771 / 90
p0 600.9 ± 0.4553
700
650
600
550
500

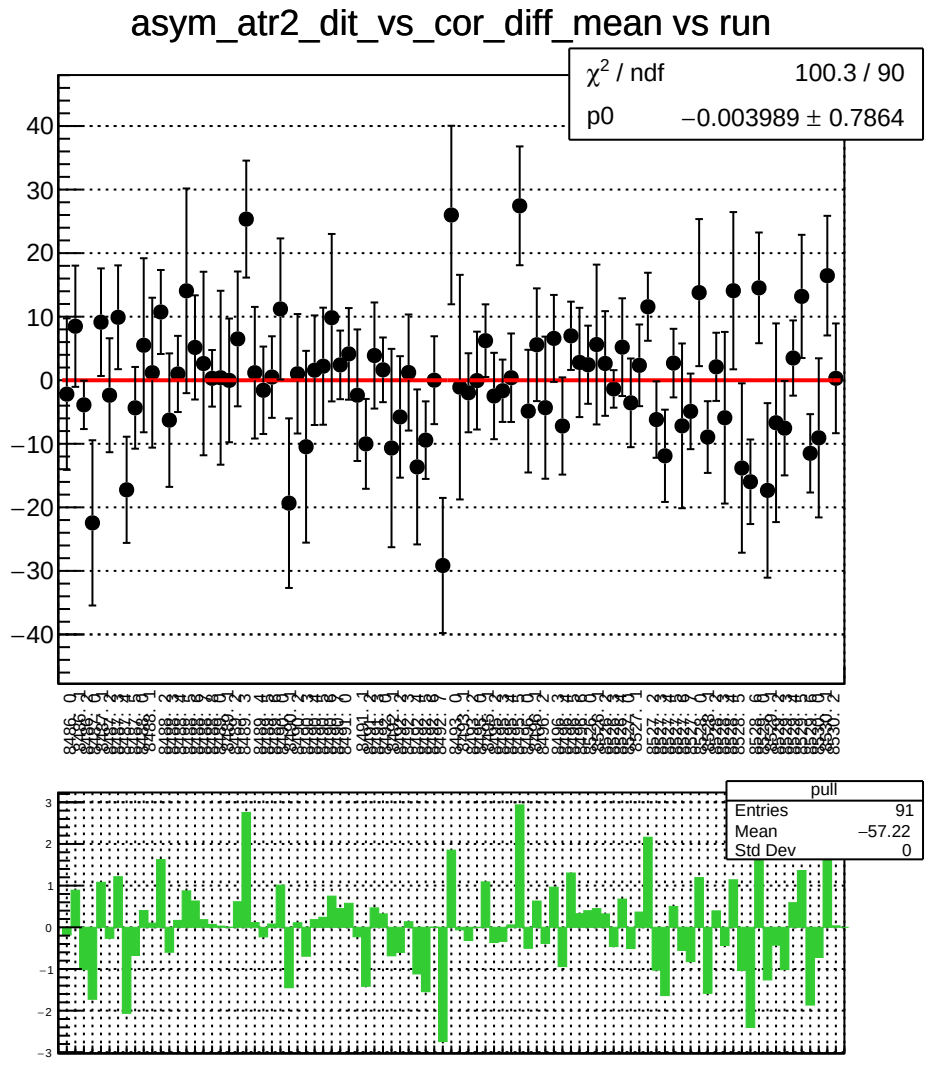

asym_atr2_mean vs run
×10^3
χ² / ndf 69.13 / 89
p0 −2.45e+04 ± 4.294e+04
pull
Entries 90
Mean −480.1
Std Dev 0

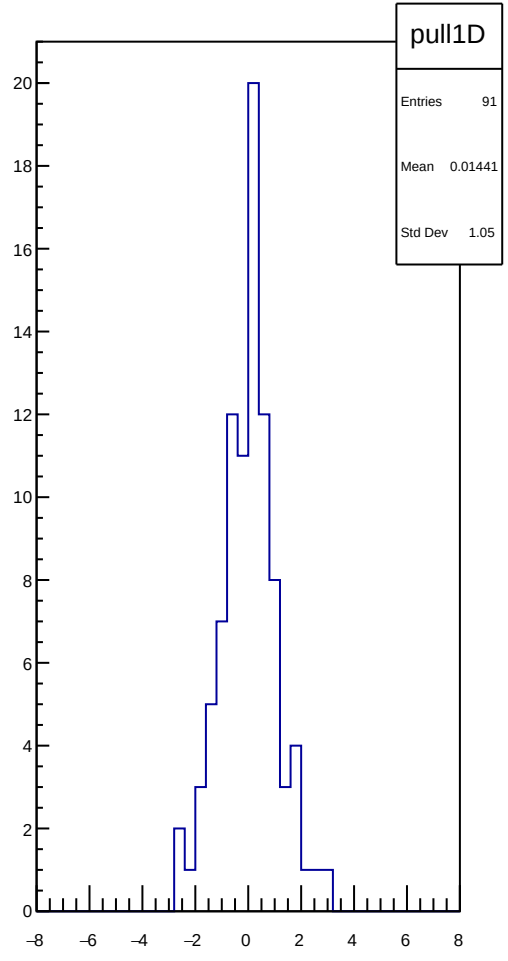

pull1D
Entries 90
Mean 0.008084
Std Dev 0.8764

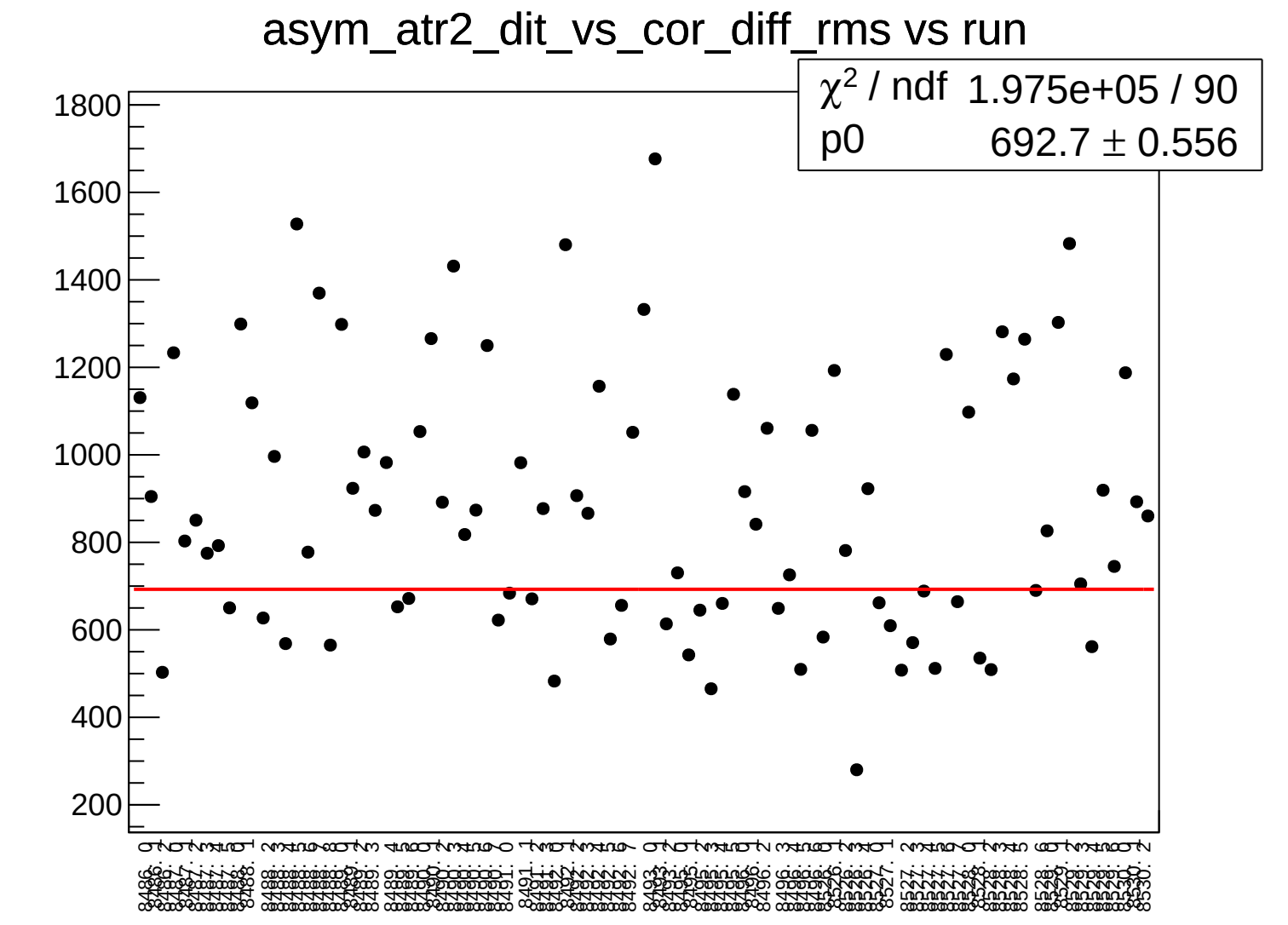

asym_atr2_rms vs run
χ² / ndf 97.31 / 90
p0 3.995e+04 ± 30.21
41000
40500
40000
39500
39000

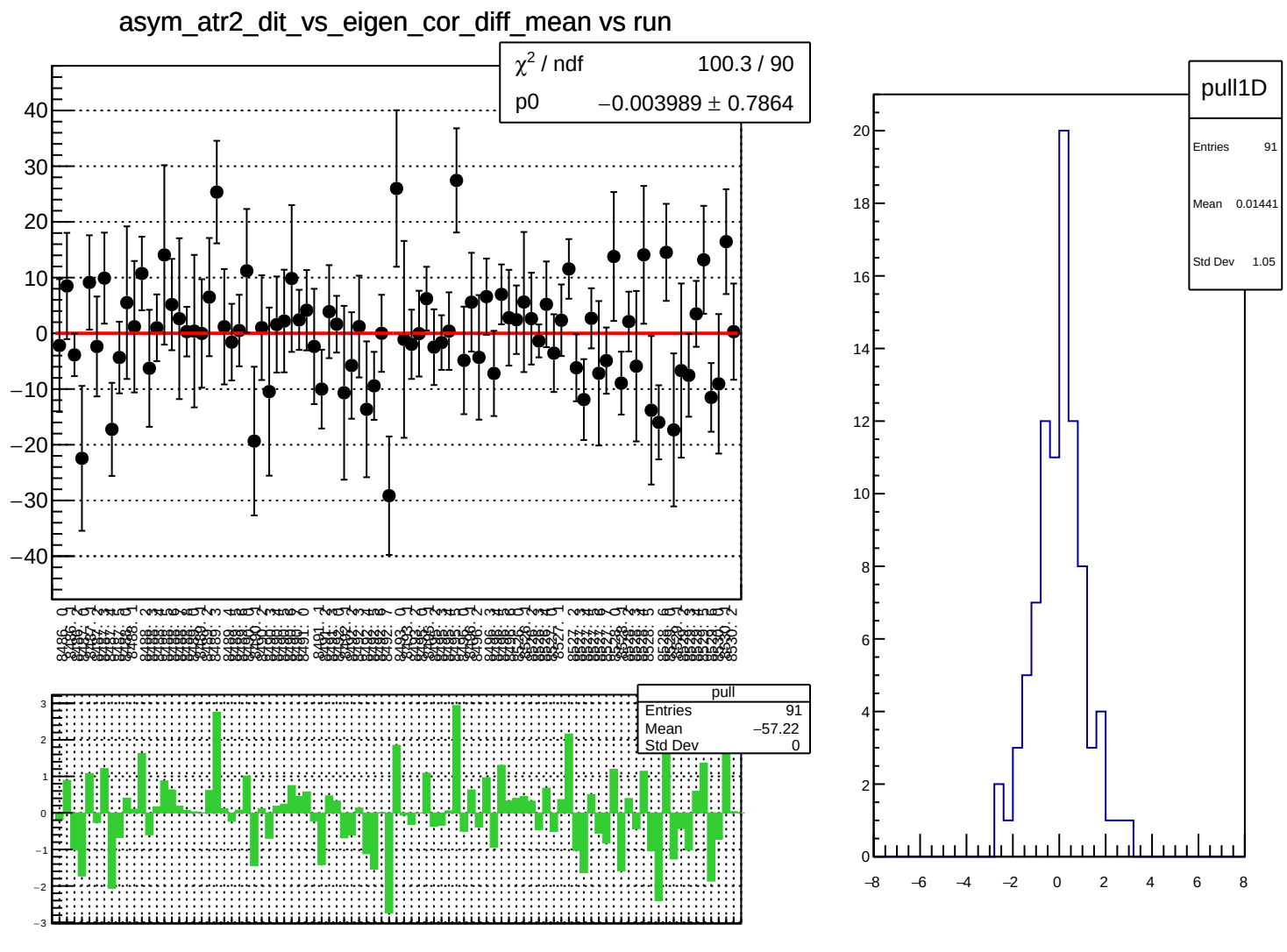

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 82.24 / 90
p0 2.367e−13 ± 2.765e−13
pull
Entries 91
Mean 27.98
Std Dev 0
pull1D
Entries 91
Mean −0.09769
Std Dev 0.9456

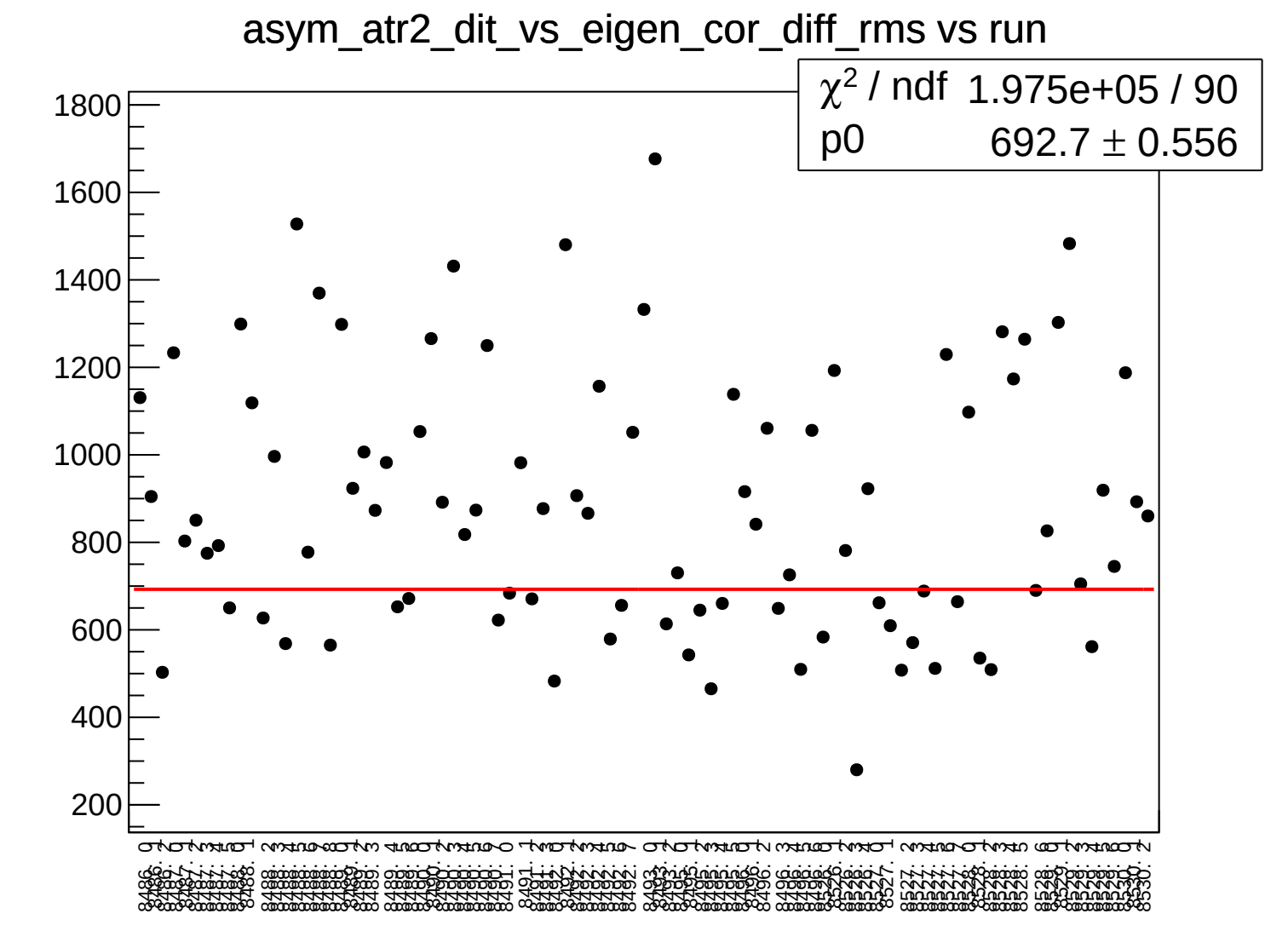

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.307e+06 / 90
p0 1.301e−10 ± 1.955e−13
25
20
15
10
5
0

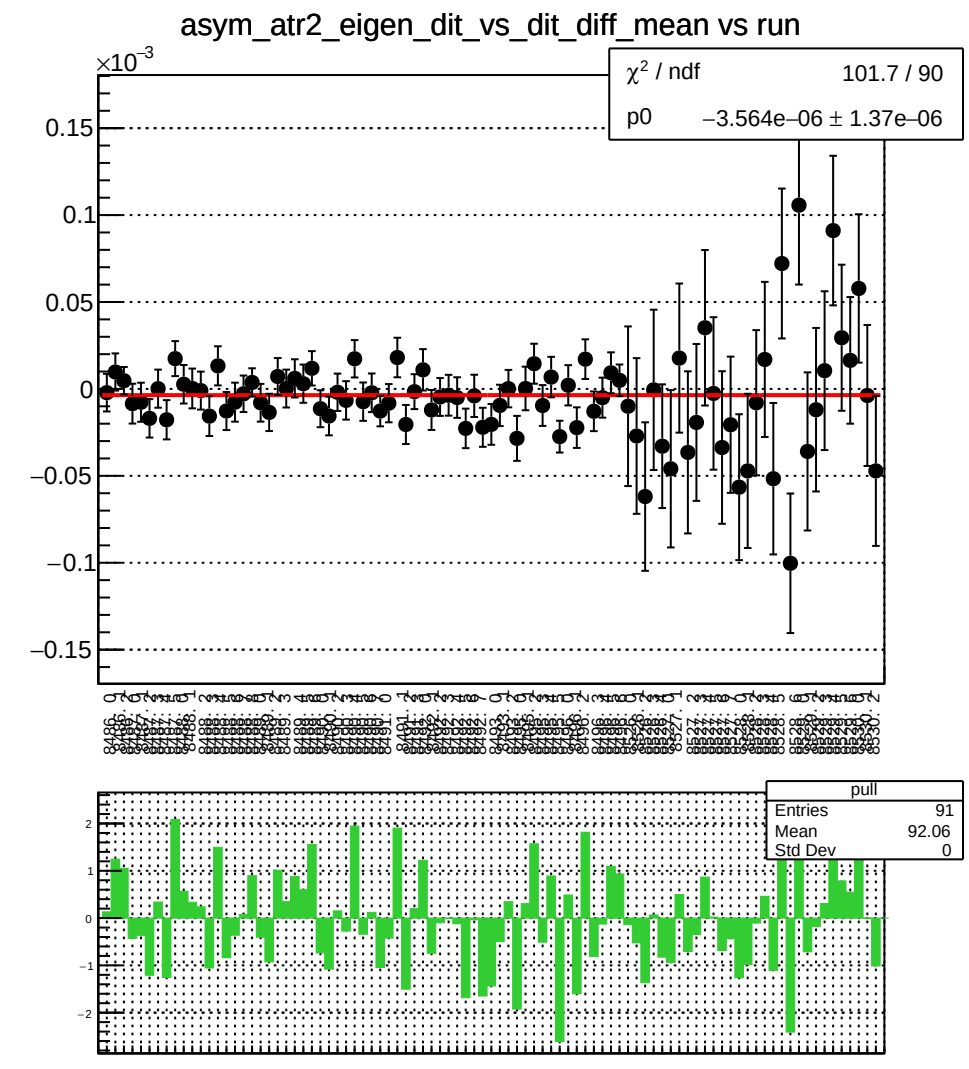

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 100.3 / 90
p0 −0.003989 ± 0.7864
pull
Entries 91
Mean −57.22
Std Dev 0

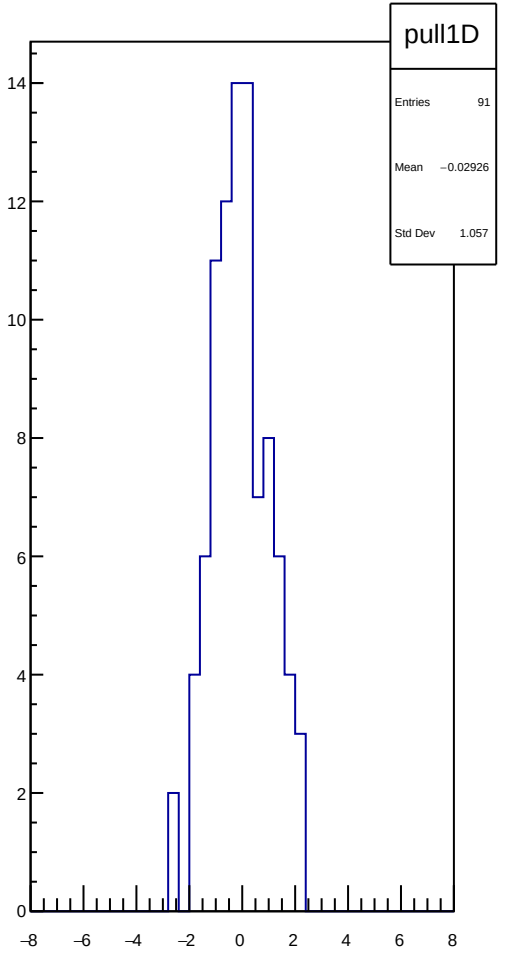

pull1D
Entries 91
Mean 0.01441
Std Dev 1.05

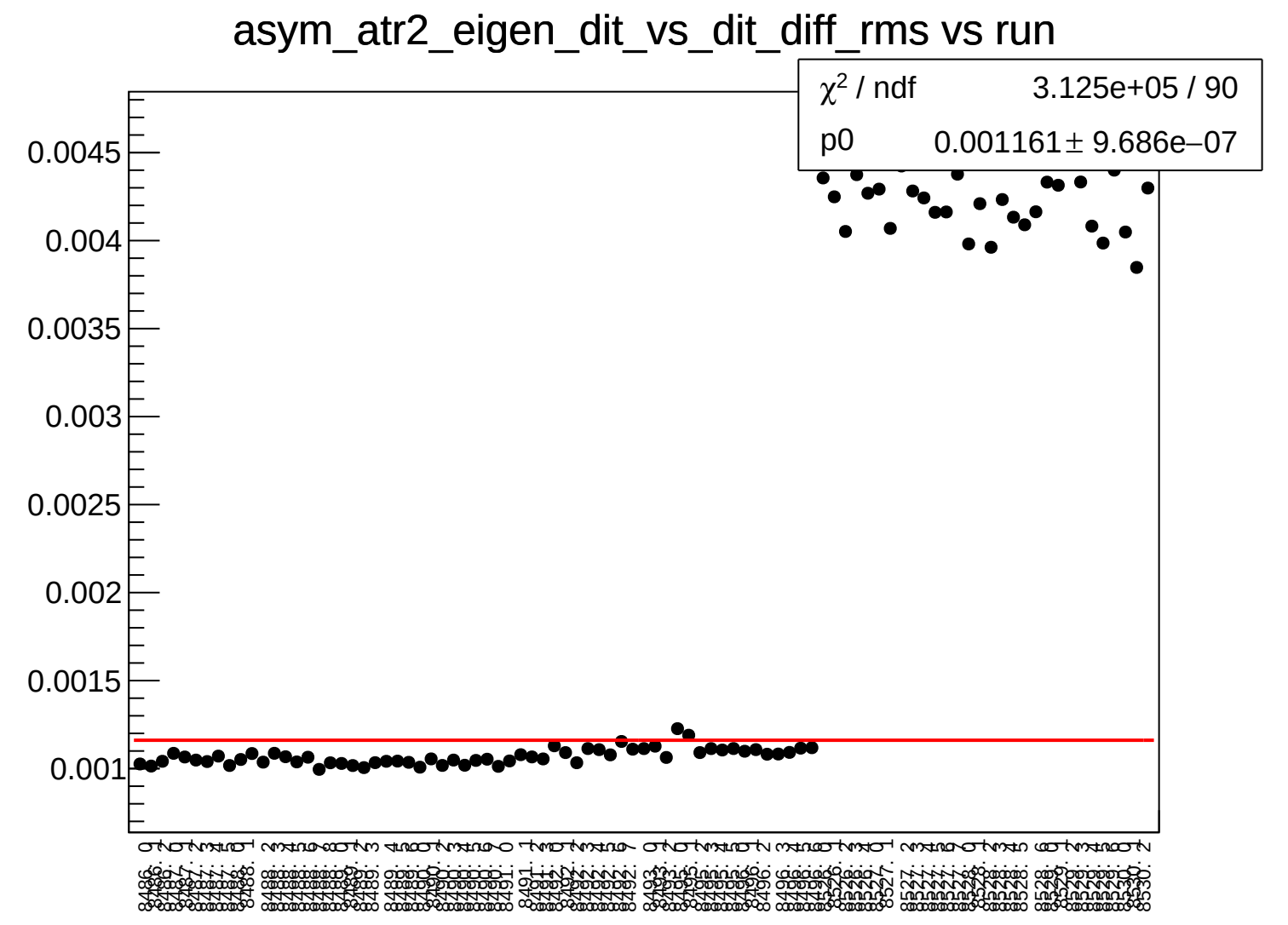

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 1.975e+05 / 90
p0 692.7 ± 0.556
1800
1600
1400
1200
1000
800
600
400
200

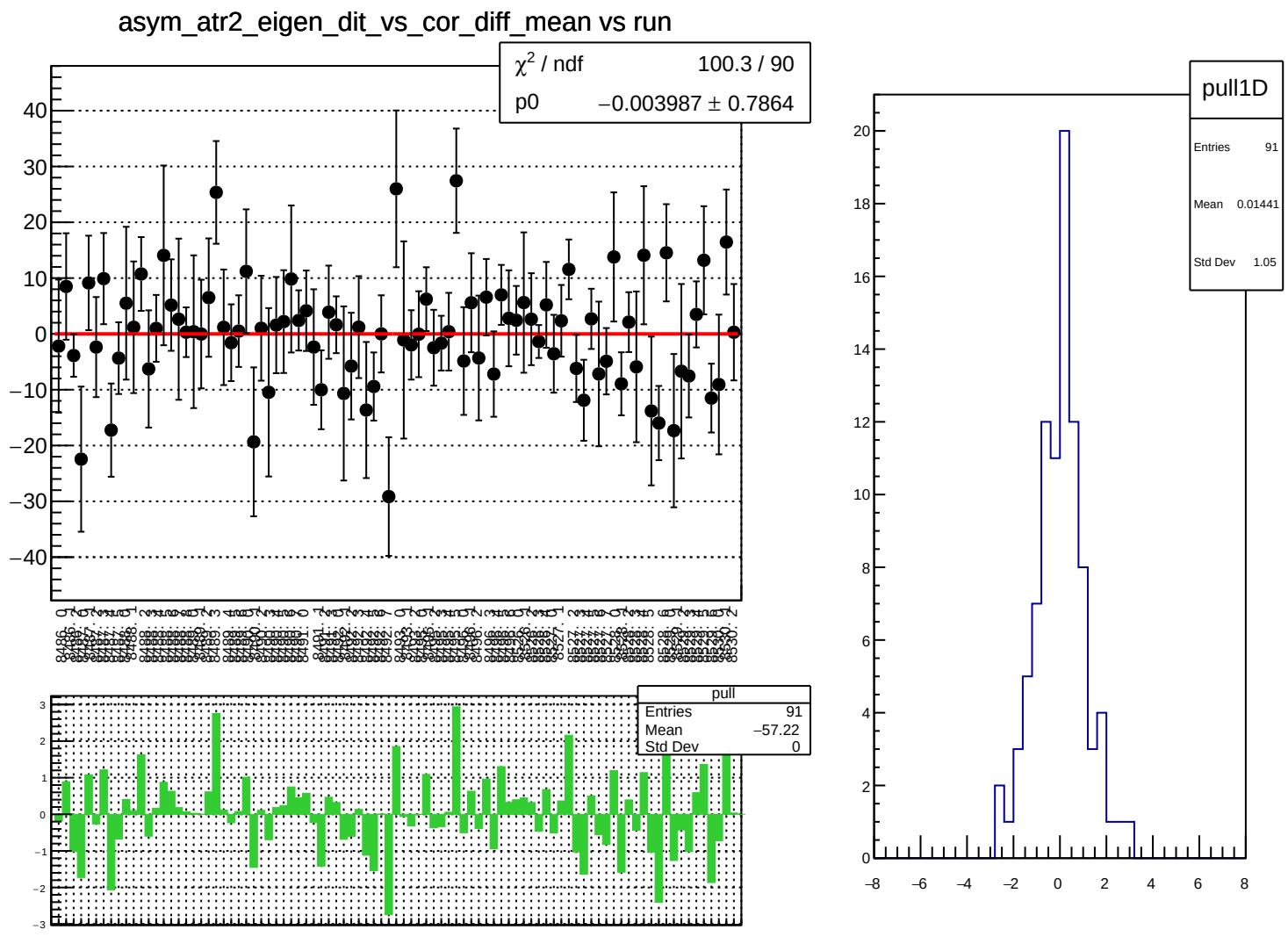

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.3 / 90
p0 −0.003989 ± 0.7864
pull
Entries 91
Mean −57.22
Std Dev 0
pull1D
Entries 91
Mean 0.01441
Std Dev 1.05

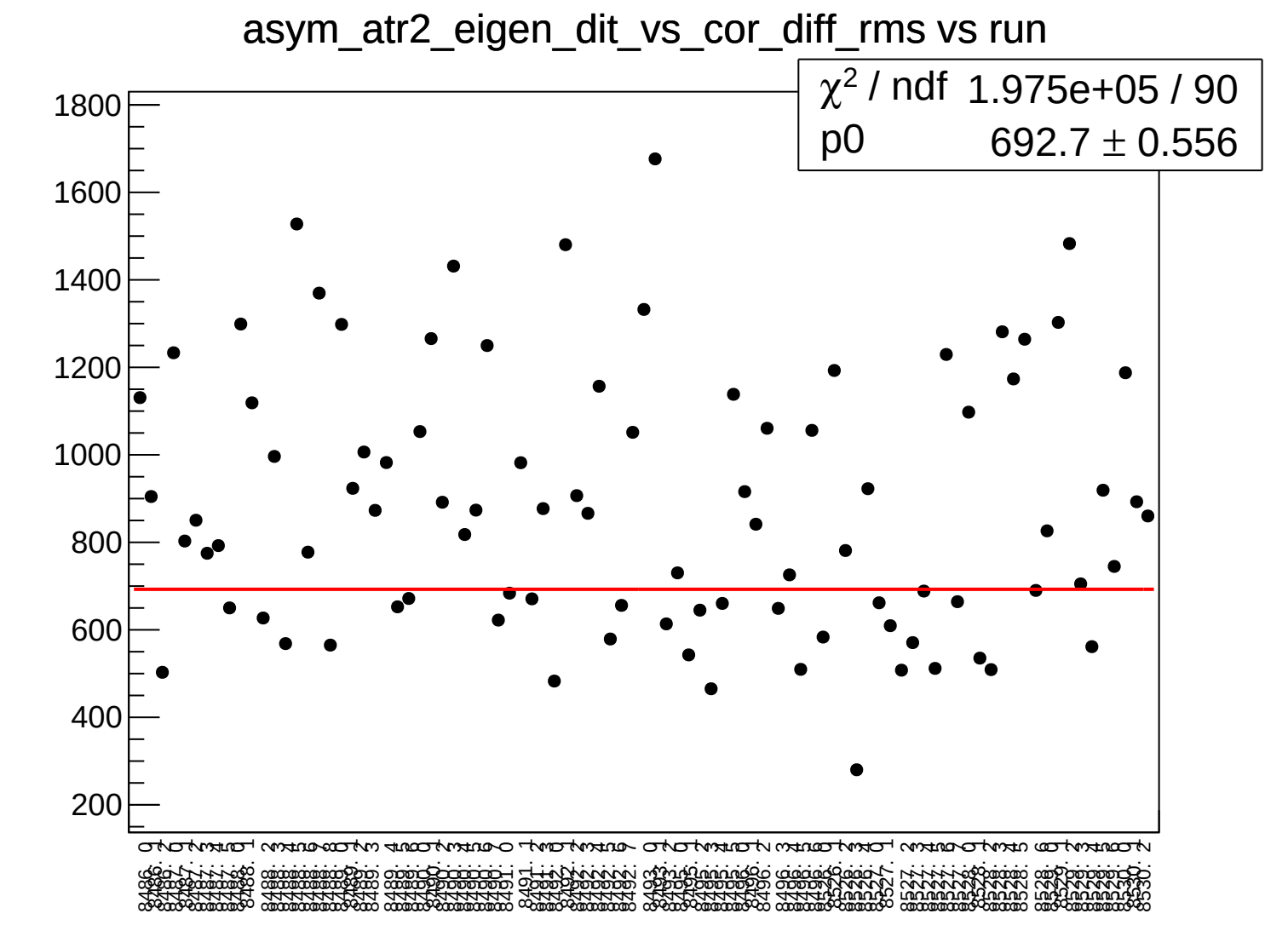

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.975e+05 / 90
p0 692.7 ± 0.556
1800
1600
1400
1200
1000
800
600
400
200

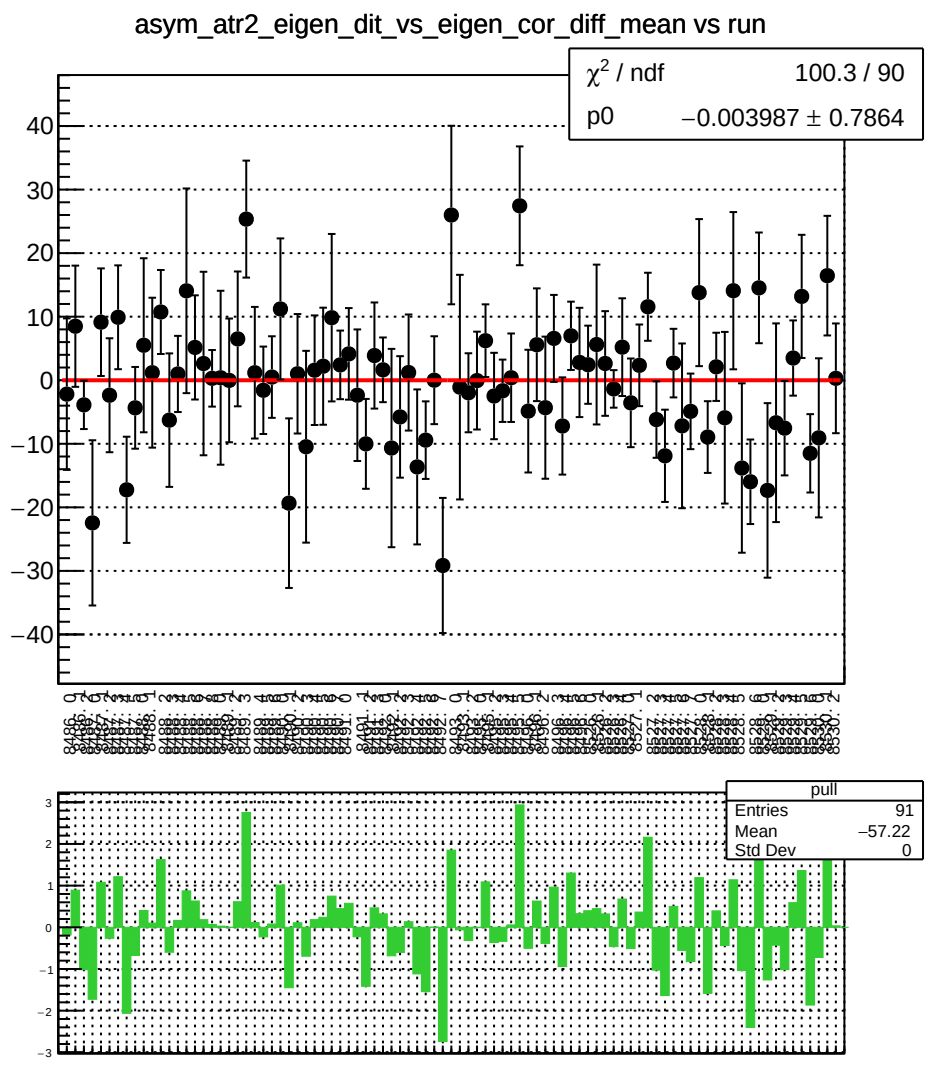

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.7 / 90
p0 −3.564e−06 ± 1.37e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 91
Mean 92.06
Std Dev 0
2
1
0
−1
−2

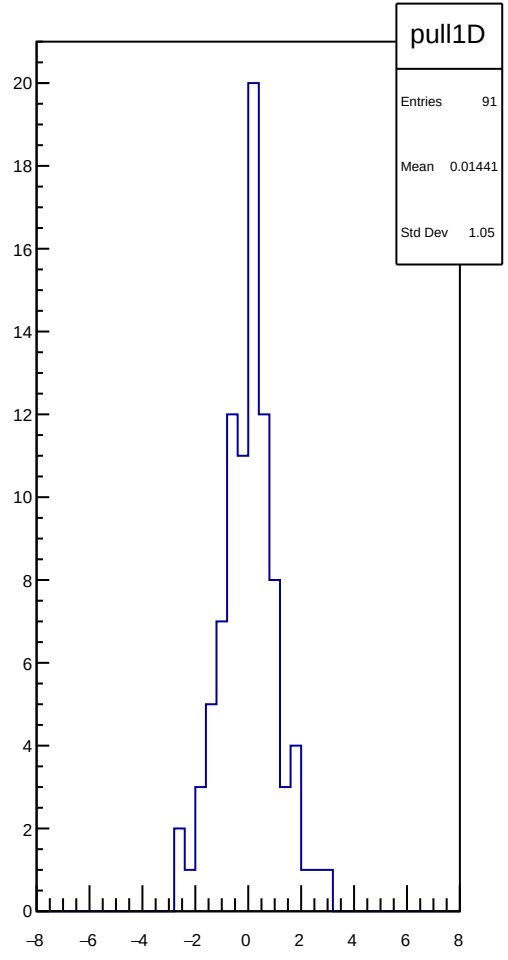

pull1D
Entries 91
Mean −0.02926
Std Dev 1.057
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

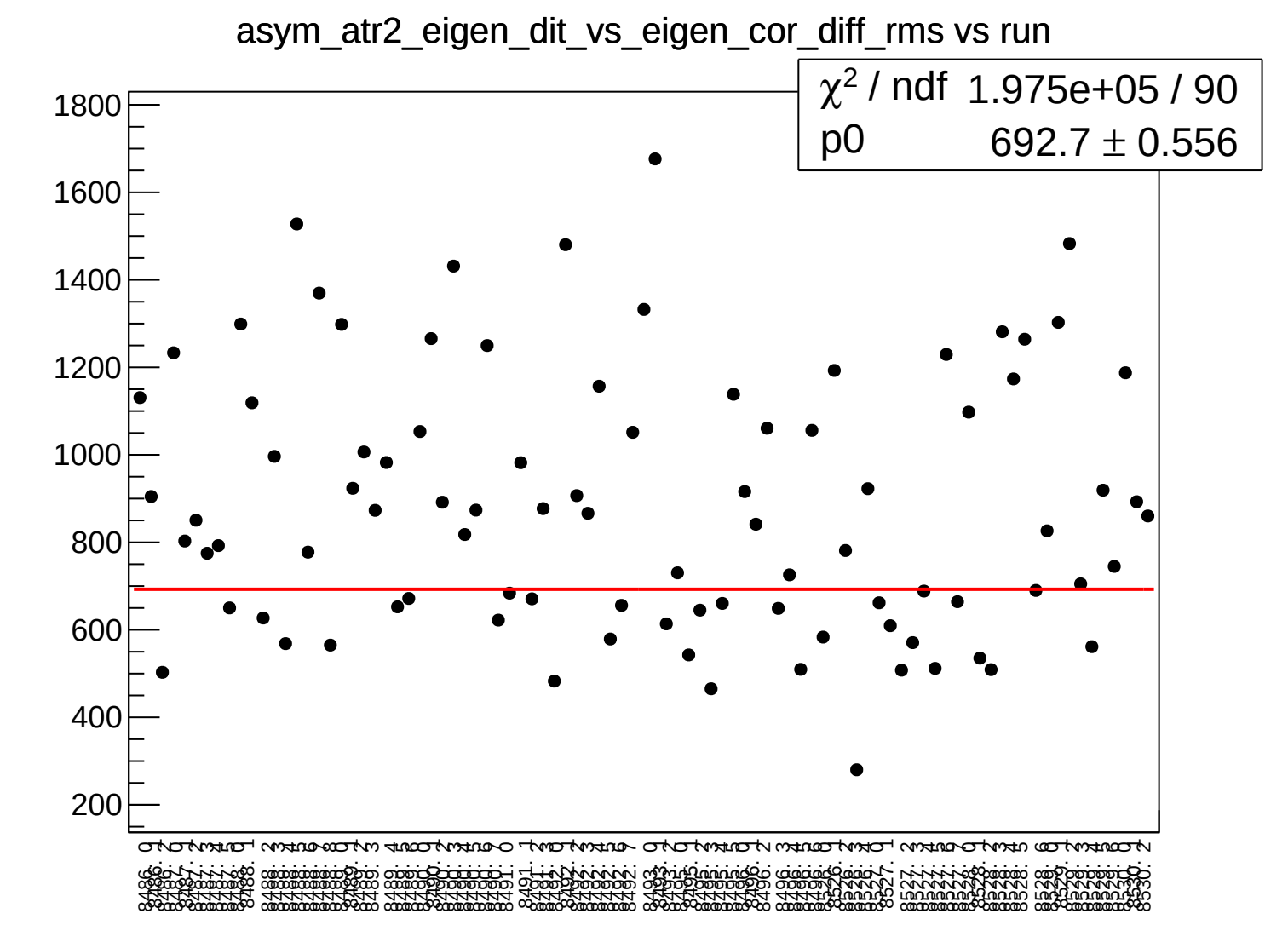

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.125e+05 / 90
p0 0.001161 ± 9.686e−07
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

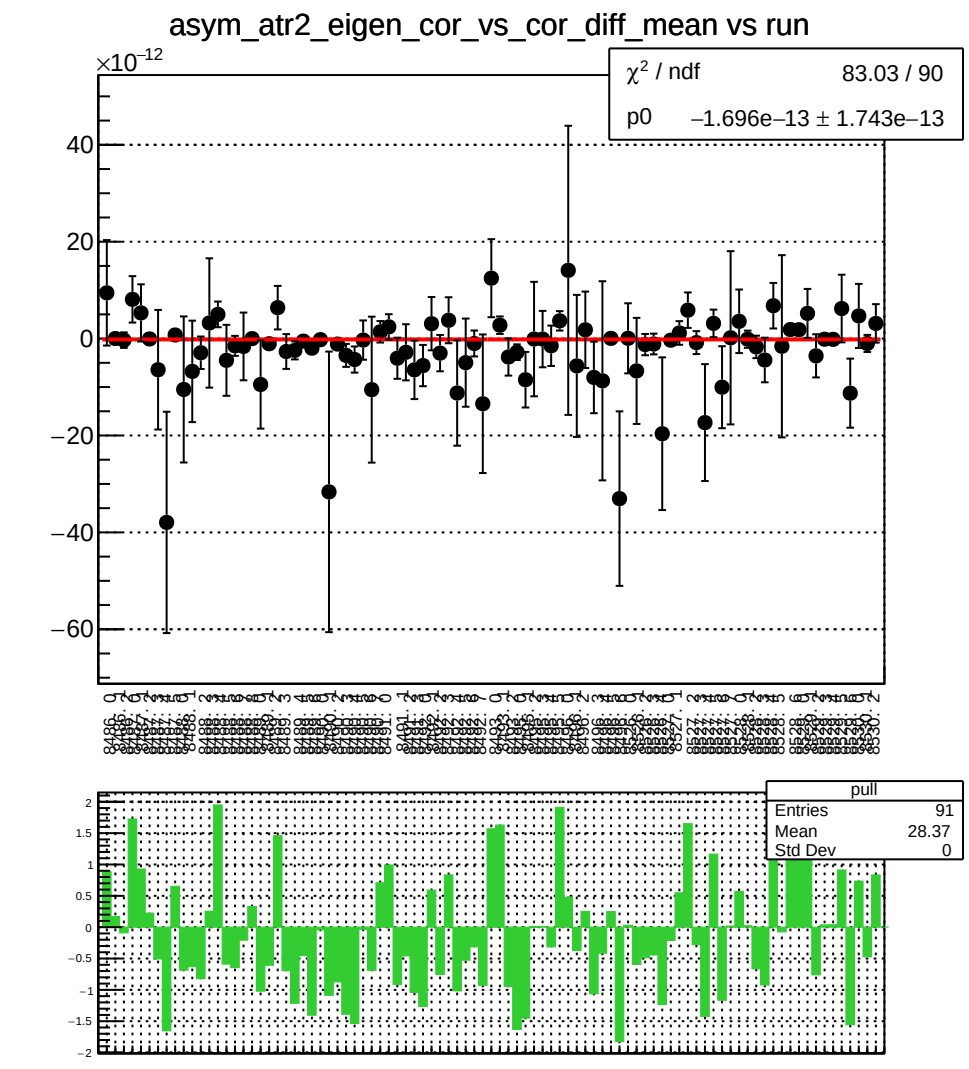

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.3 / 90
p0 −0.003987 ± 0.7864
pull
Entries 91
Mean −57.22
Std Dev 0
pull1D
Entries 91
Mean 0.01441
Std Dev 1.05

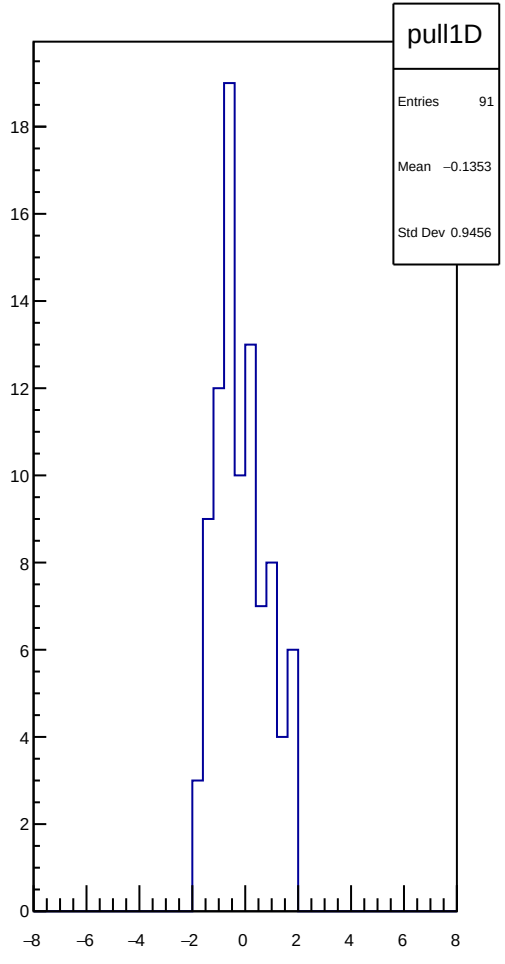

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.975e+05 / 90
p0 692.7 ± 0.556
1800
1600
1400
1200
1000
800
600
400
200

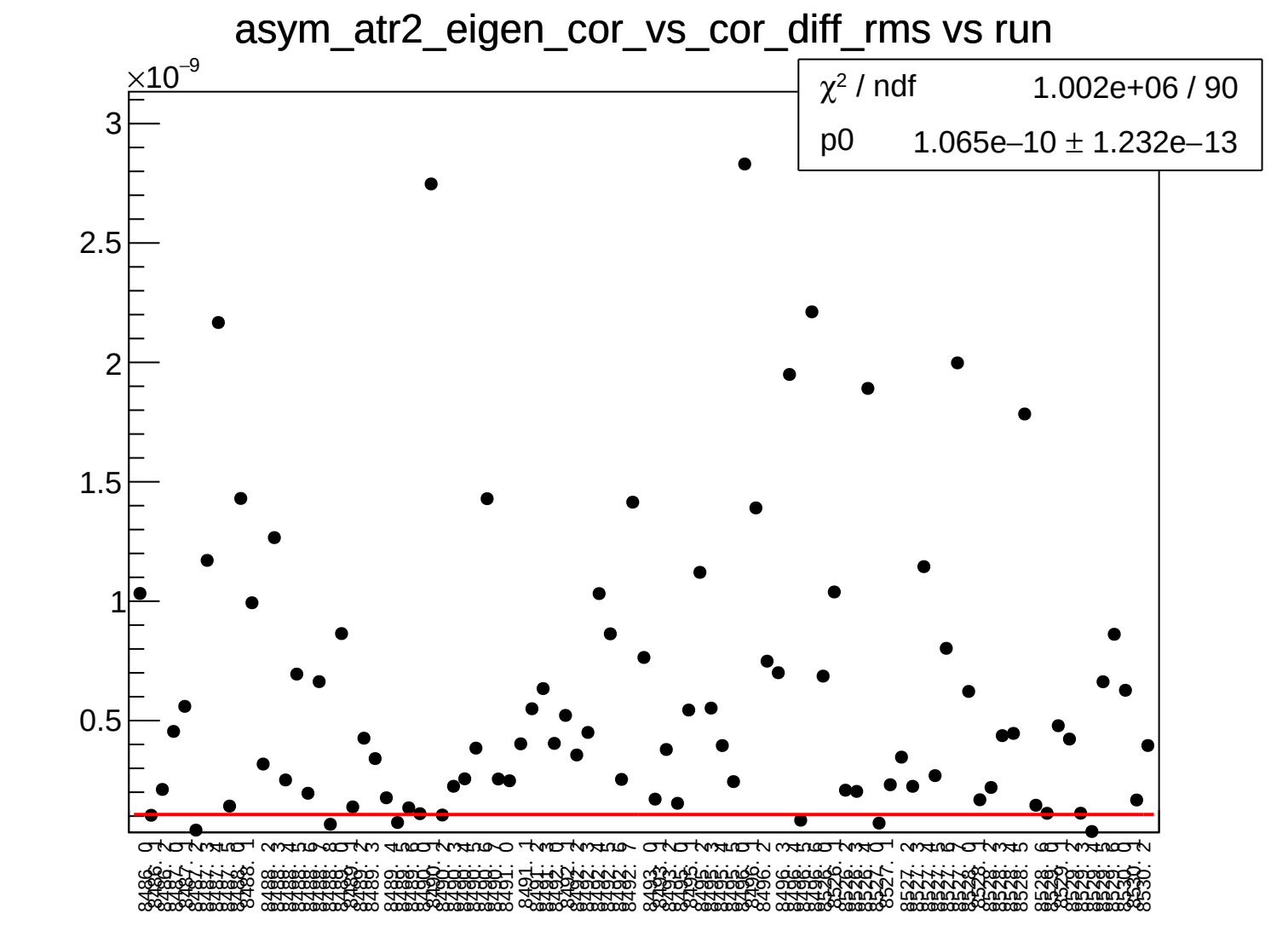

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.3 / 90
p0 −0.003987 ± 0.7864
pull
Entries 91
Mean −57.22
Std Dev 0

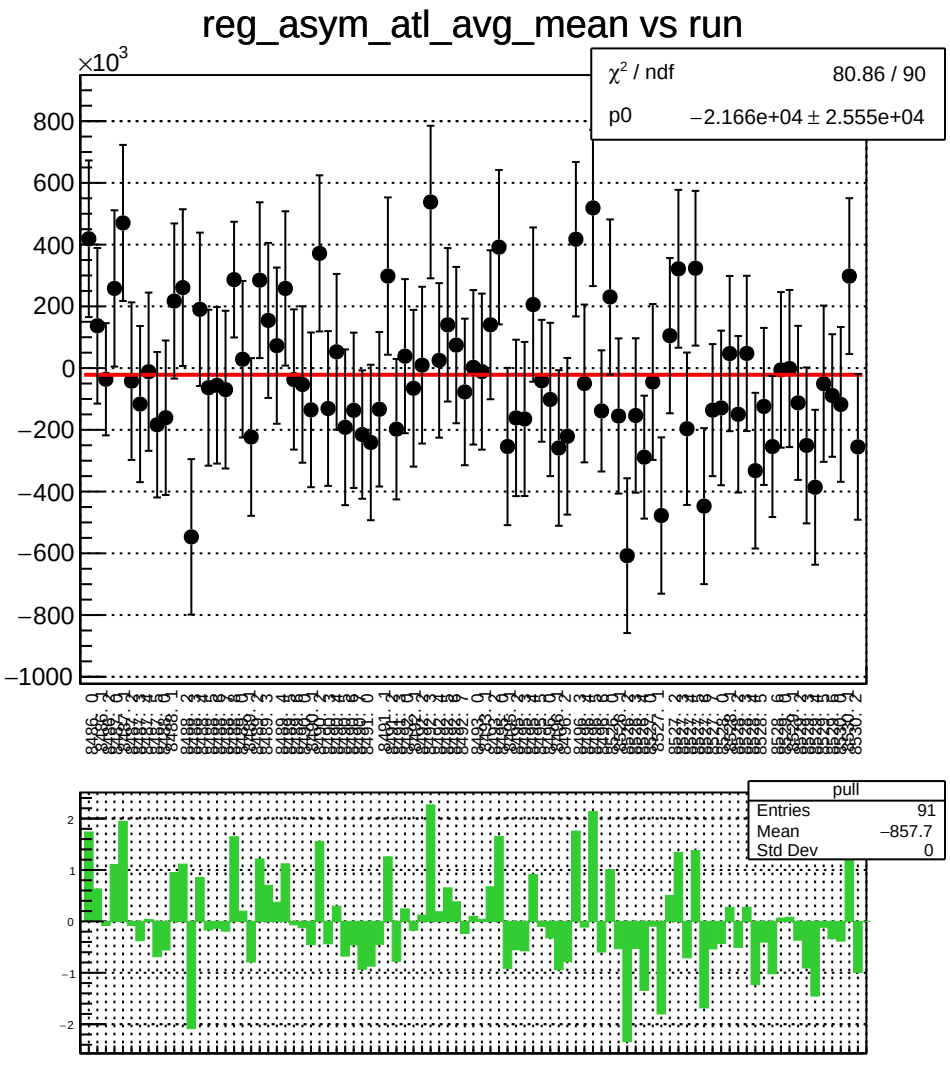

pull1D
Entries 91
Mean 0.01441
Std Dev 1.05

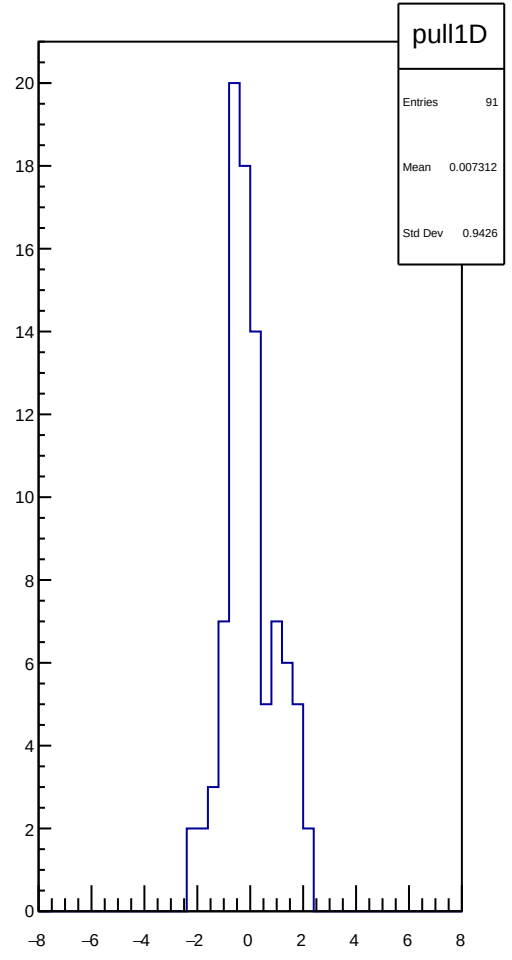

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.975e+05 / 90
p0 692.7 ± 0.556
1800
1600
1400
1200
1000
800
600
400
200

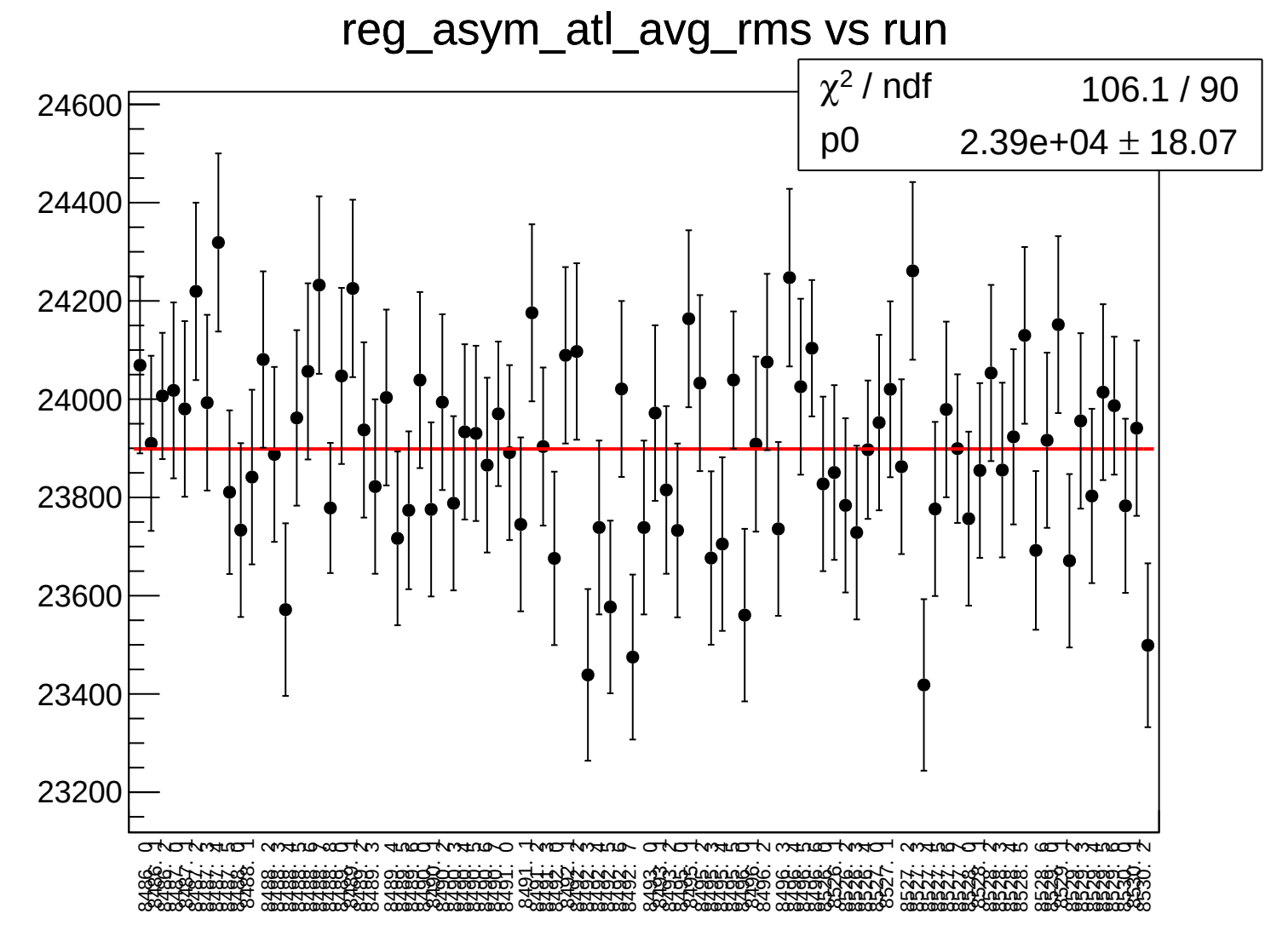

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.03 / 90
p0 −1.696e−13 ± 1.743e−13
40
20
0
−20
−40
−60
pull
Entries 91
Mean 28.37
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

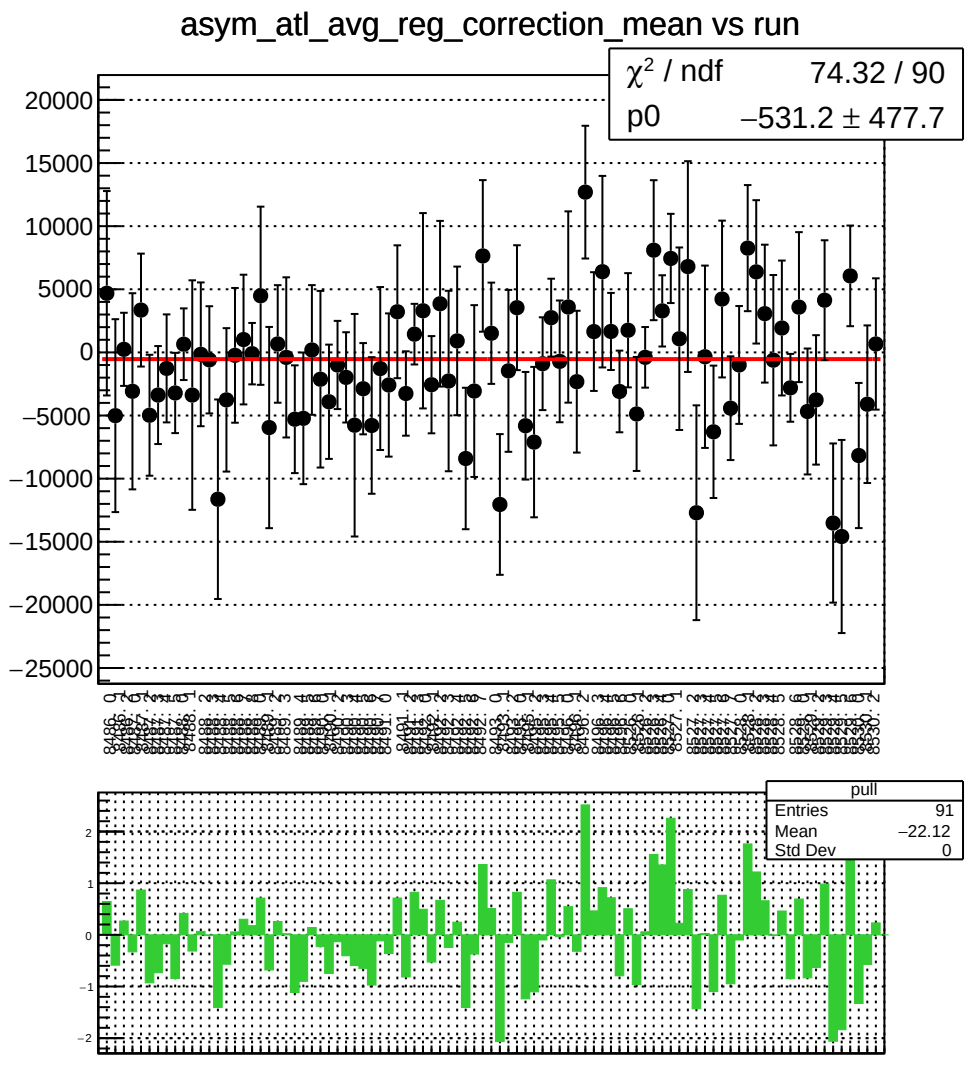

pull1D
Entries 91
Mean −0.1353
Std Dev 0.9456
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

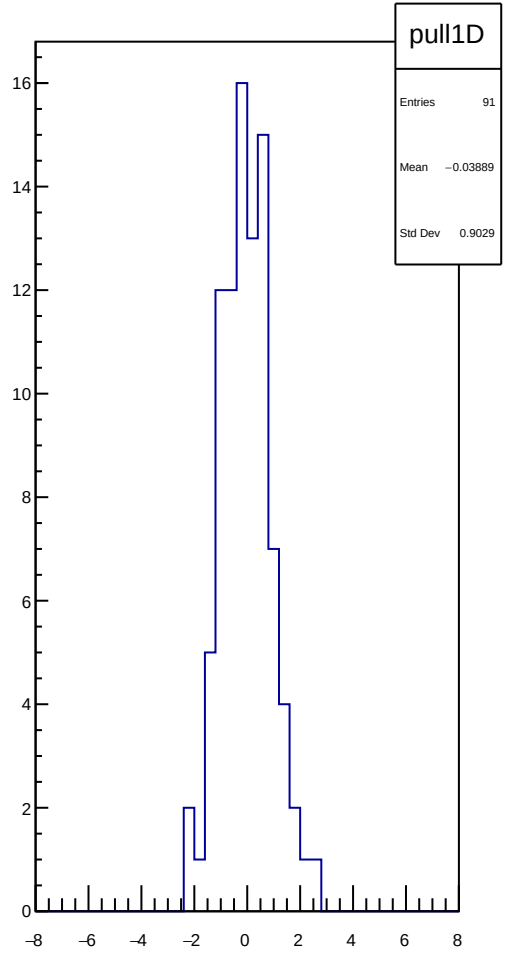

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.002e+06 / 90
p0 1.065e−10 ± 1.232e−13
3
2.5
2
1.5
1
0.5

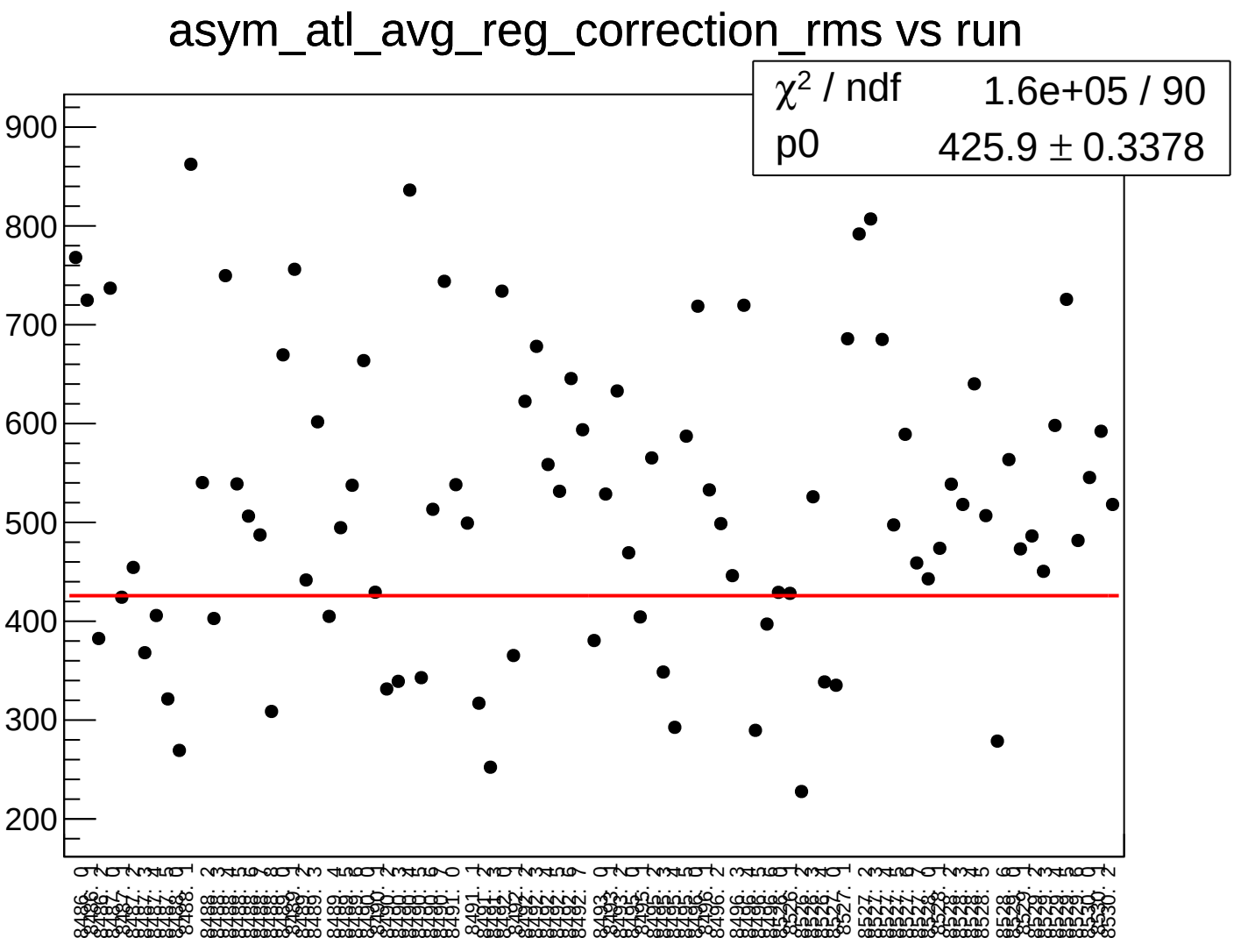

reg_asym_atl_avg_mean vs run
×10^3
χ² / ndf 80.86 / 90
p0 −2.166e+04 ± 2.555e+04
pull
Entries 91
Mean −857.7
Std Dev 0

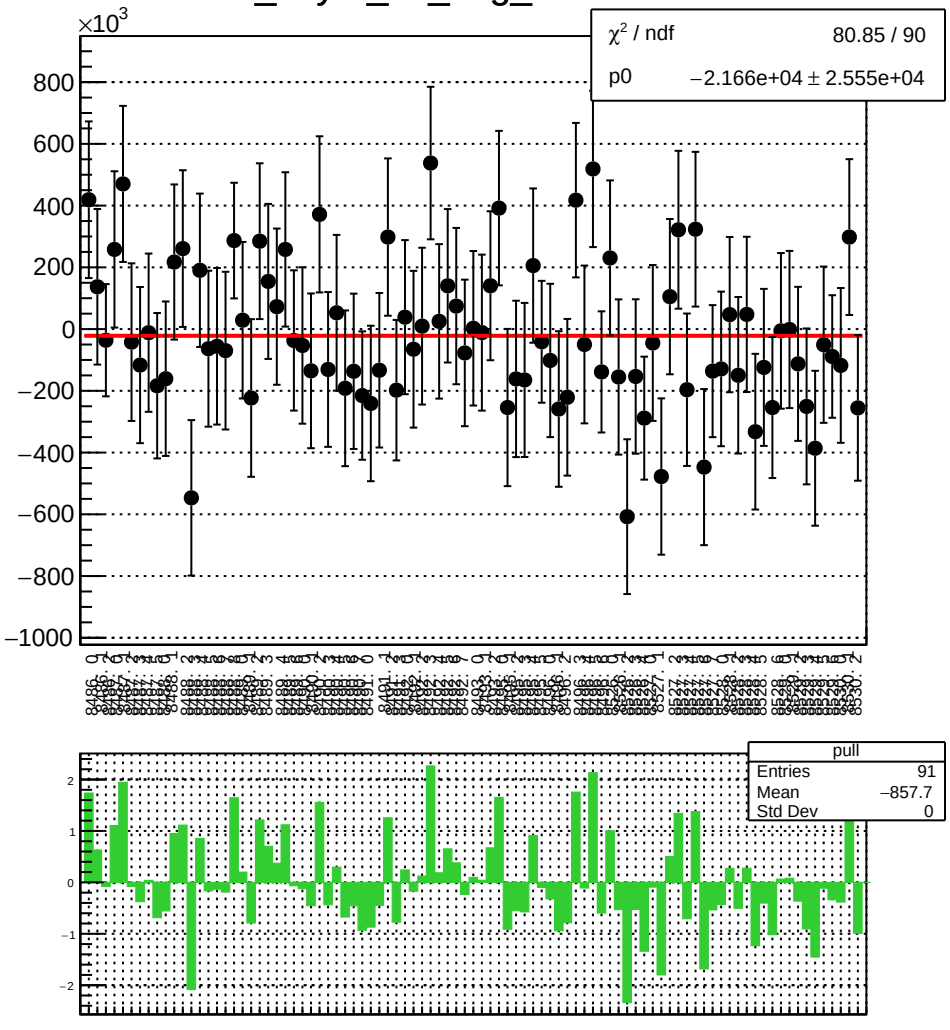

pull1D
Entries 91
Mean 0.007312
Std Dev 0.9426

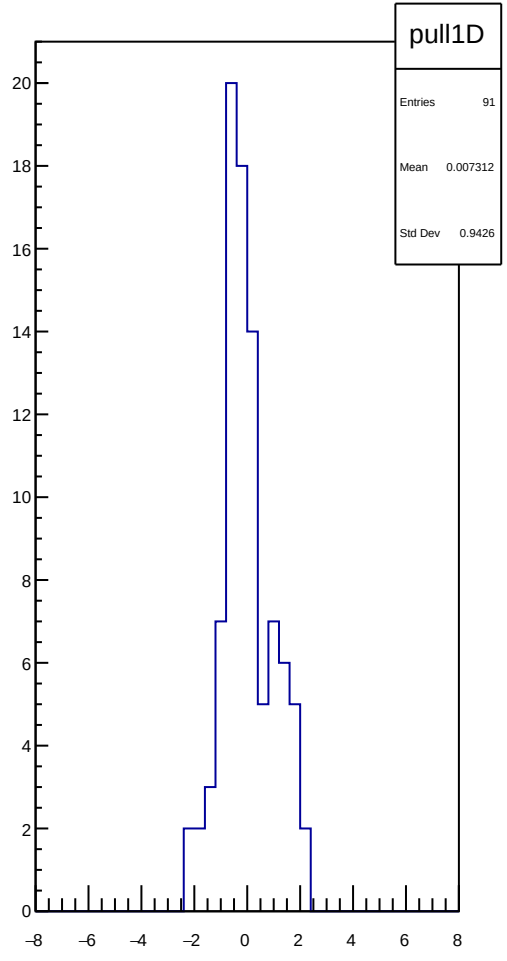

reg_asym_atl_avg_rms vs run
χ^2 / ndf 106.1 / 90
p0 2.39e+04 ± 18.07
24600
24400
24200
24000
23800
23600
23400
23200

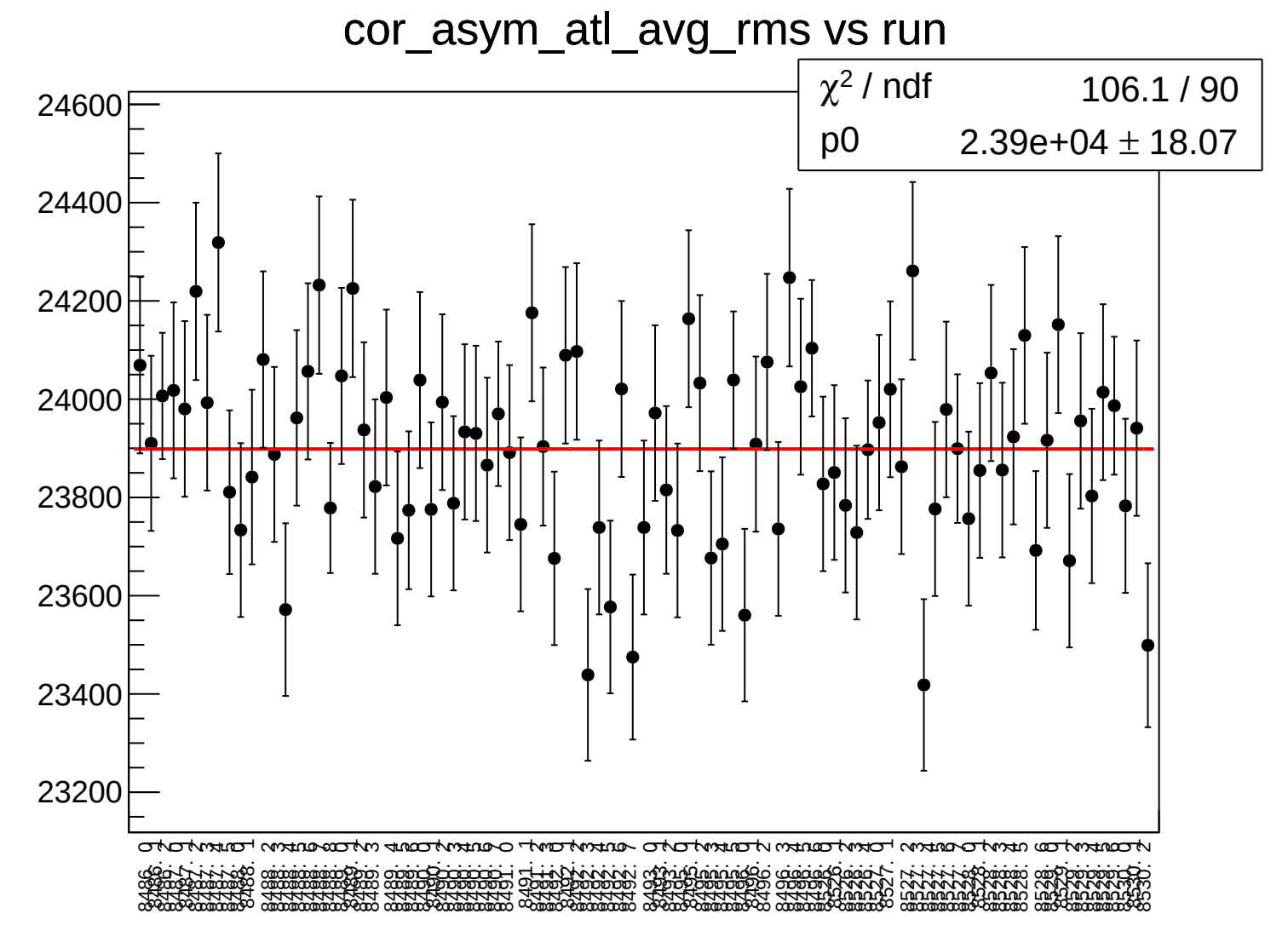

asym_atl_avg_reg_correction_mean vs run
χ² / ndf 74.32 / 90
p0 −531.2 ± 477.7
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 91
Mean −22.12
Std Dev 0
2
1
0
−1
−2

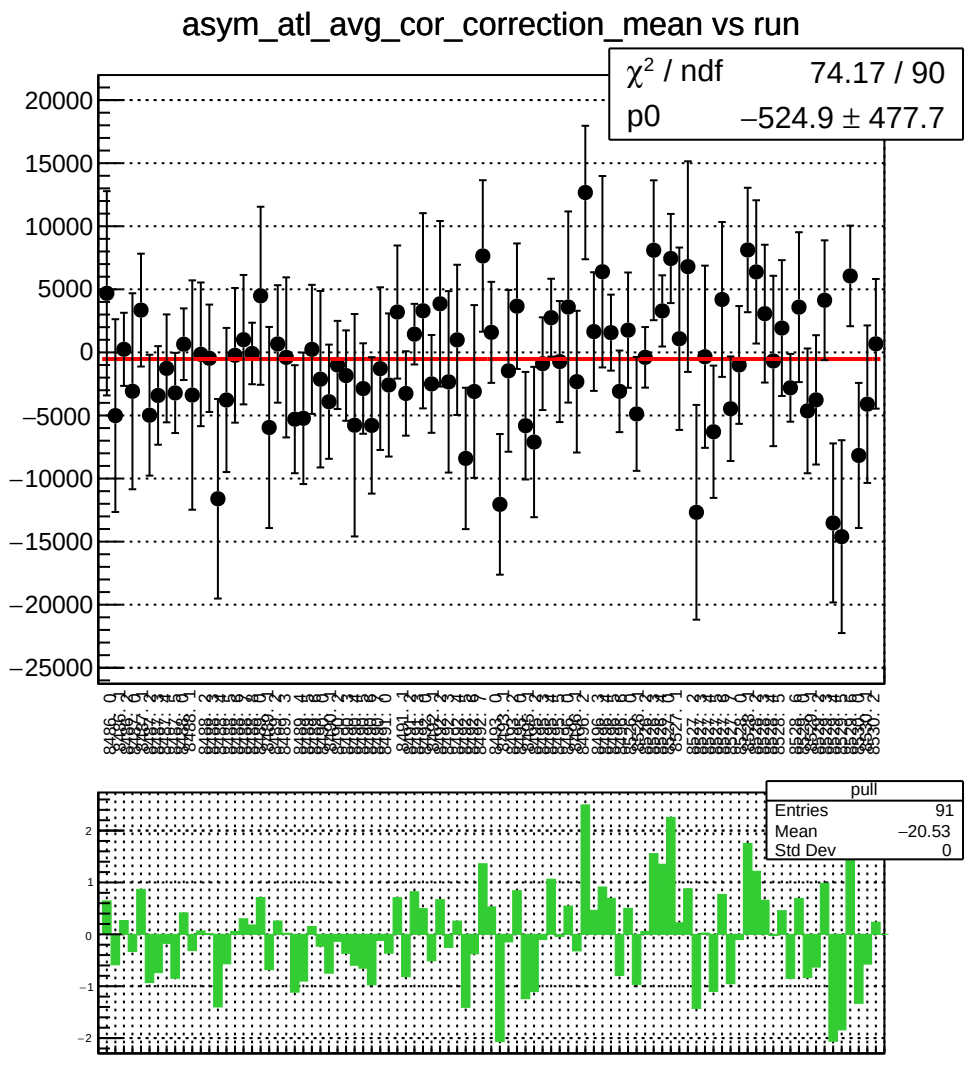

pull1D
Entries 91
Mean −0.03889
Std Dev 0.9029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

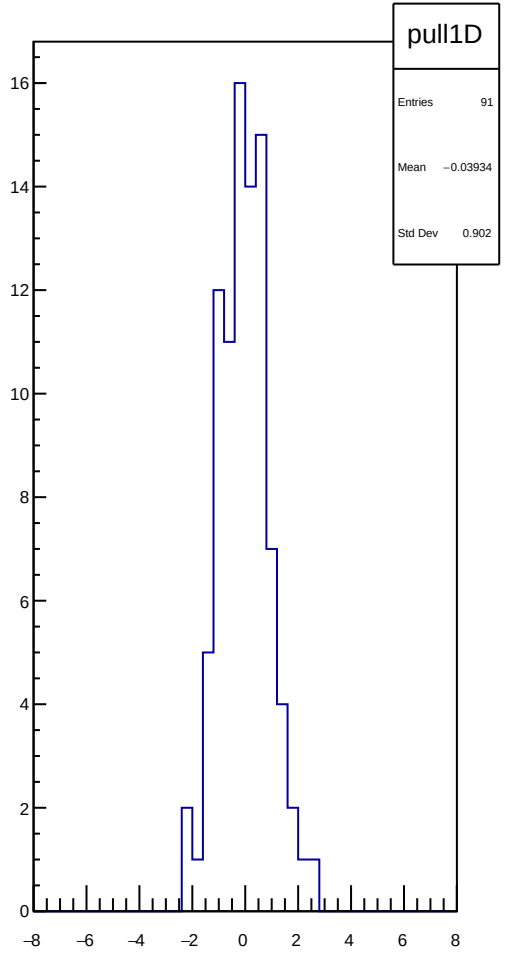

asym_atl_avg_reg_correction_rms vs run
χ² / ndf 1.6e+05 / 90
p0 425.9 ± 0.3378
900
800
700
600
500
400
300
200

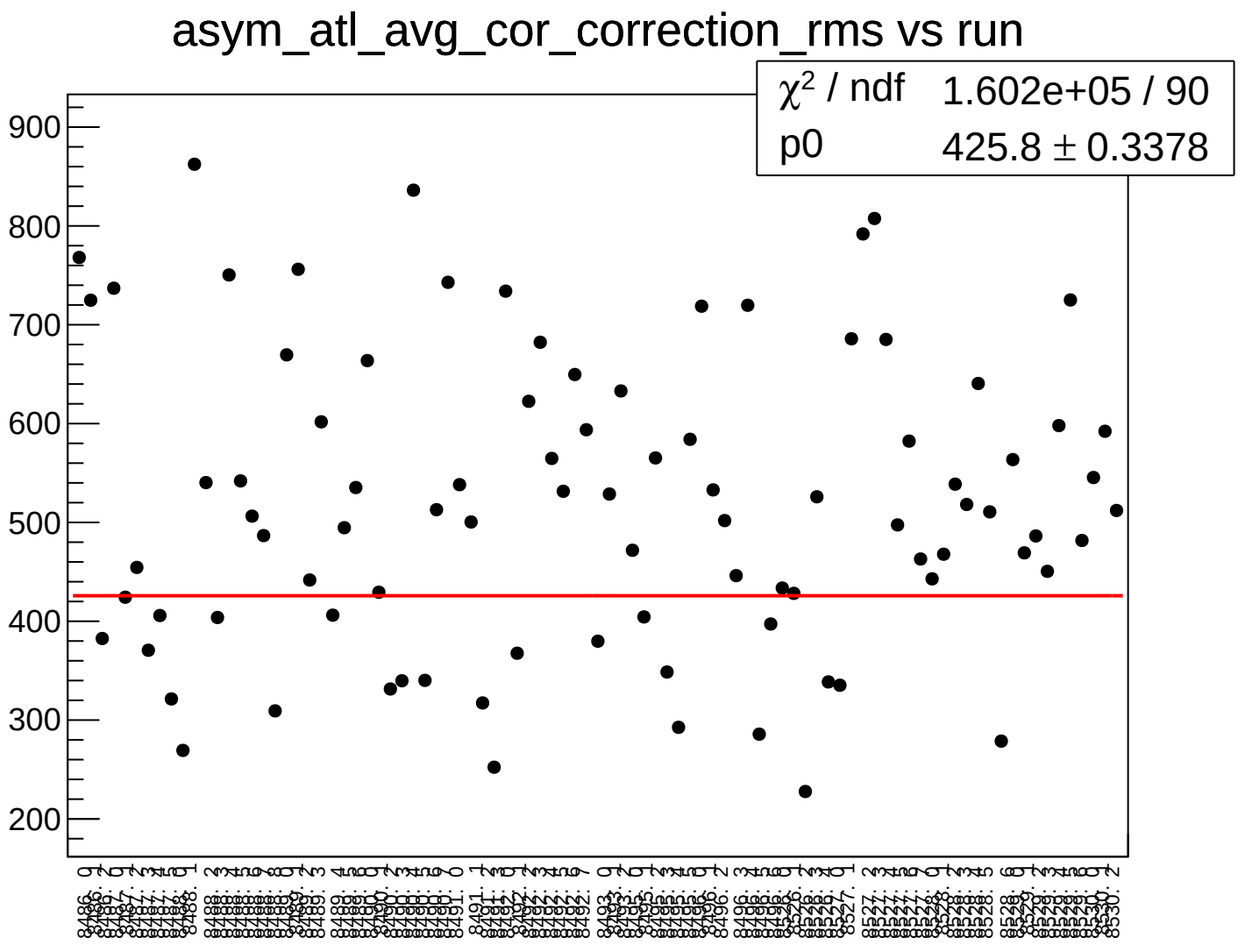

cor_asym_atl_avg_mean vs run
×10^3
χ² / ndf 80.85 / 90
p0 −2.166e+04 ± 2.555e+04
pull
Entries 91
Mean −857.7
Std Dev 0

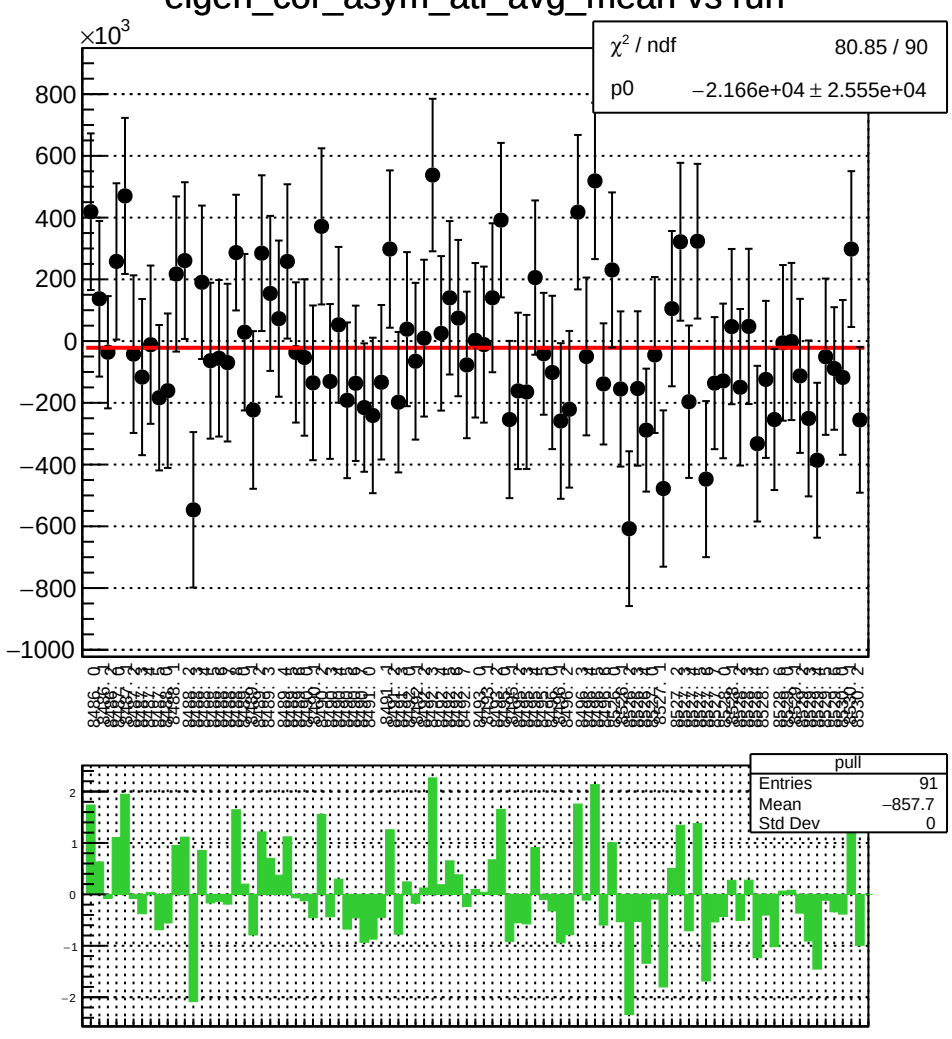

pull1D
Entries 91
Mean 0.007312
Std Dev 0.9426

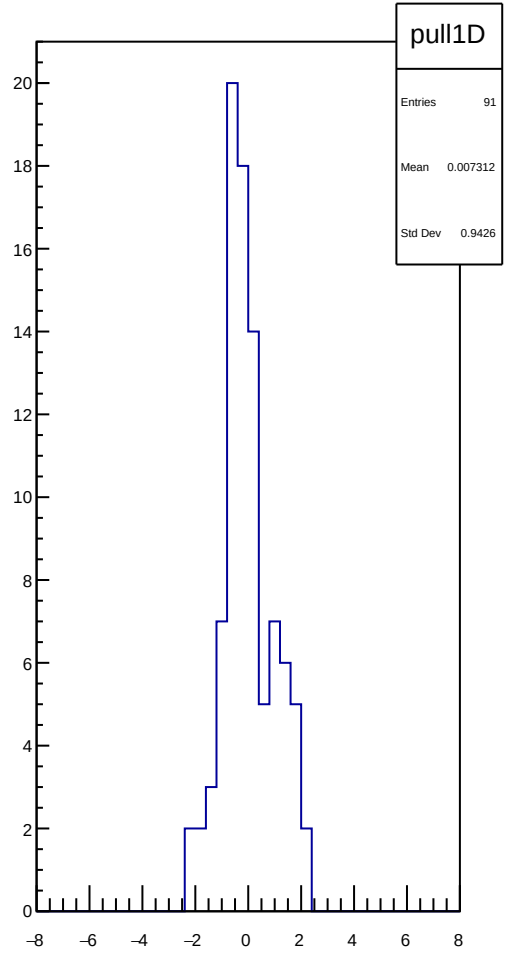

cor_asym_atl_avg_rms vs run
χ^2 / ndf 106.1 / 90
p0 2.39e+04 ± 18.07
24600
24400
24200
24000
23800
23600
23400
23200

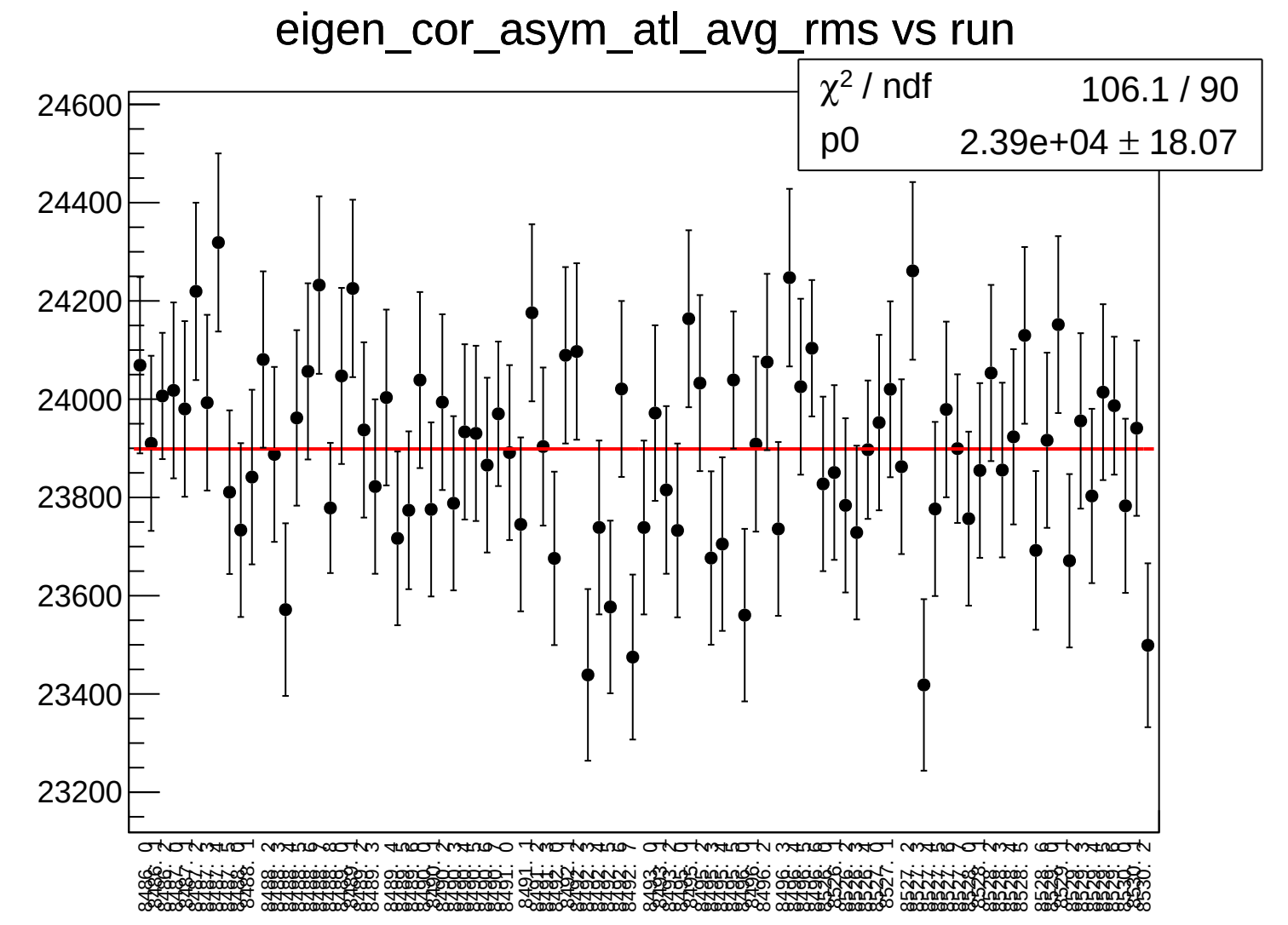

asym_atl_avg_cor_correction_mean vs run
χ² / ndf 74.17 / 90
p0 −524.9 ± 477.7
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 91
Mean −20.53
Std Dev 0
2
1
0
−1
−2

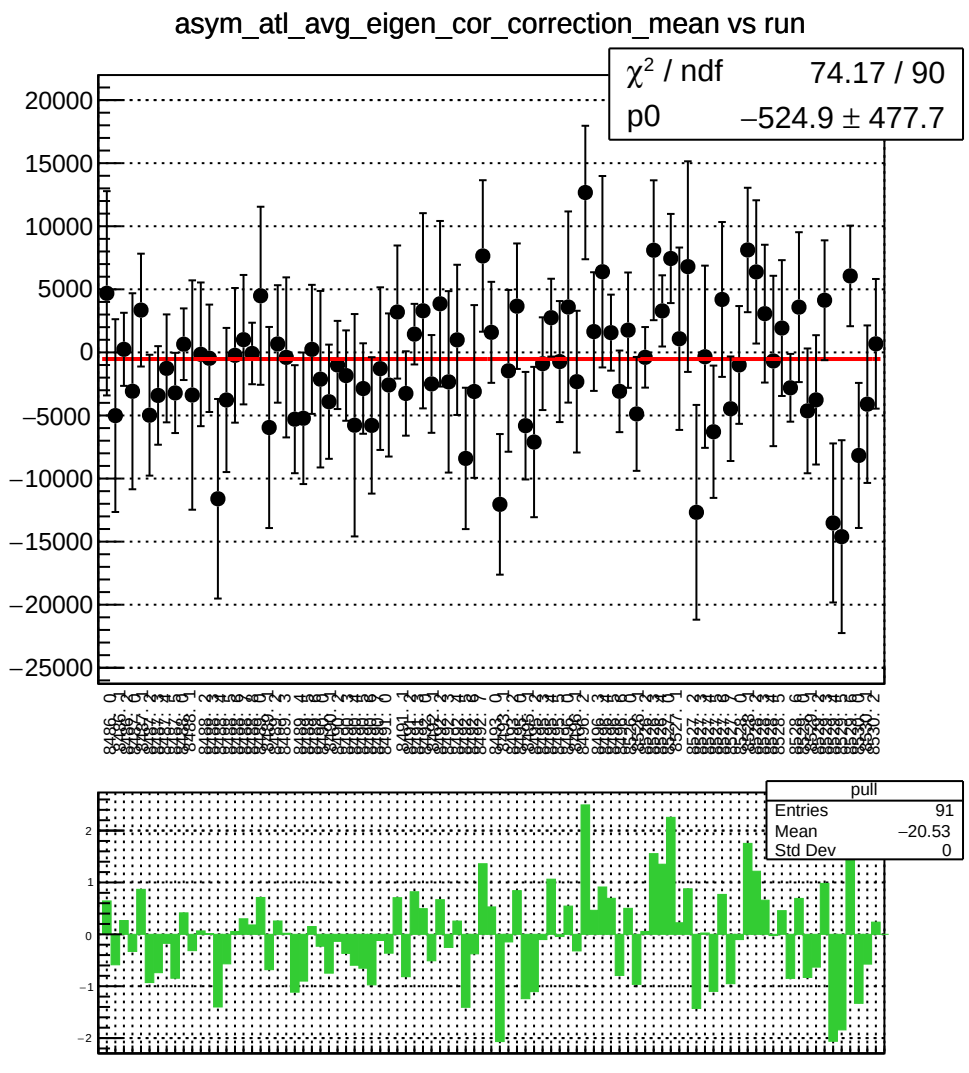

pull1D
Entries 91
Mean −0.03934
Std Dev 0.902
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

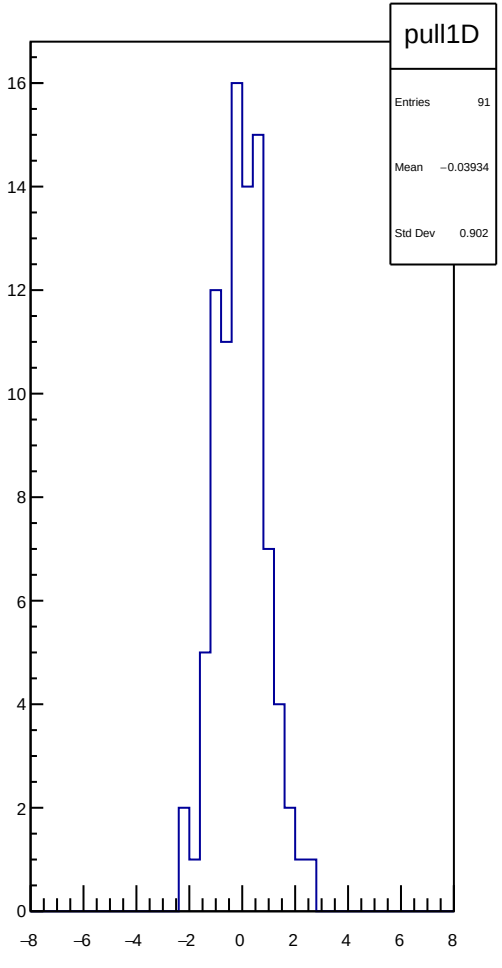

asym_atl_avg_cor_correction_rms vs run
χ^2 / ndf 1.602e+05 / 90
p0 425.8 ± 0.3378
900
800
700
600
500
400
300
200

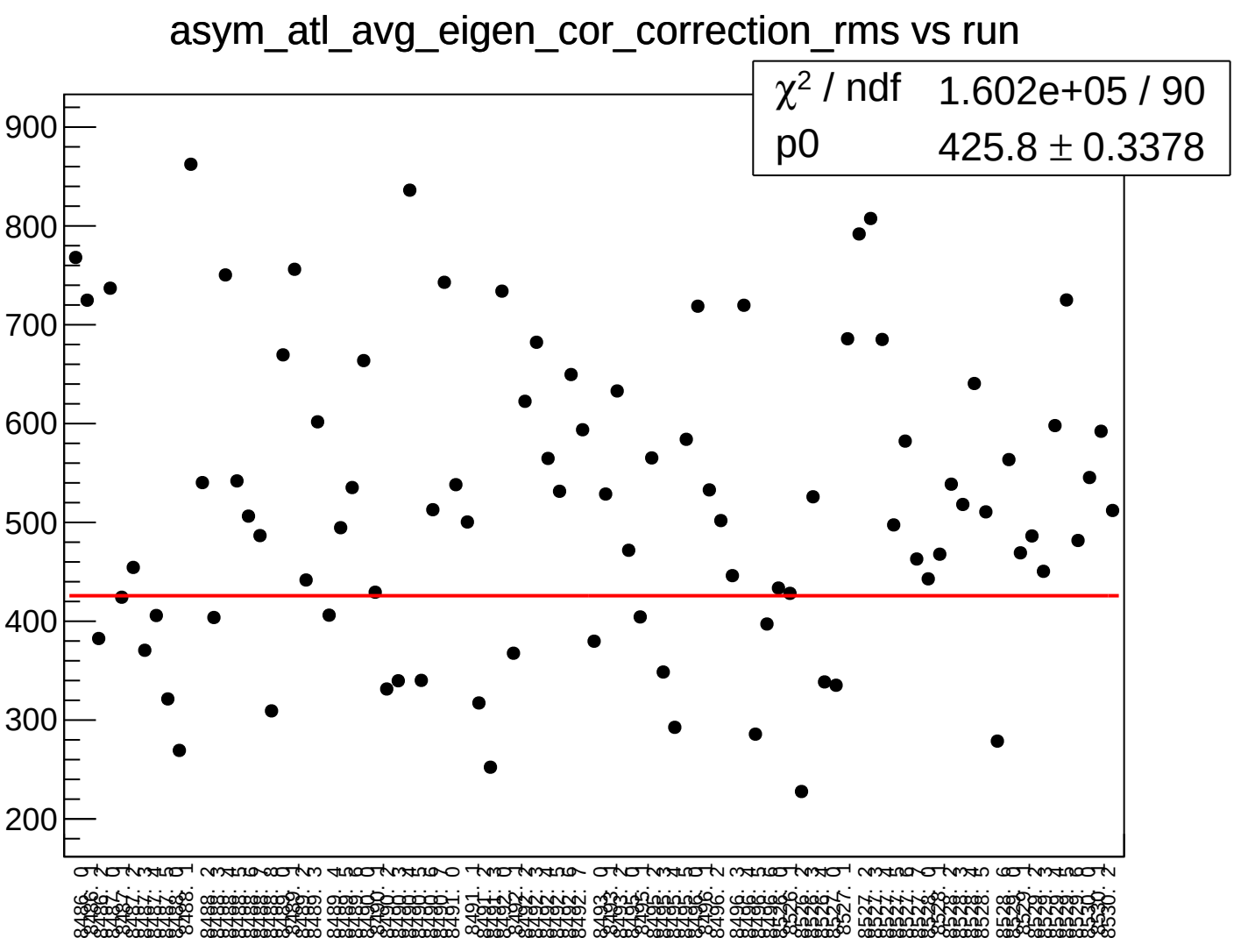

eigen_cor_asym_atl_avg_mean vs run
×10^3
χ² / ndf 80.85 / 90
p0 −2.166e+04 ± 2.555e+04
pull
Entries 91
Mean −857.7
Std Dev 0

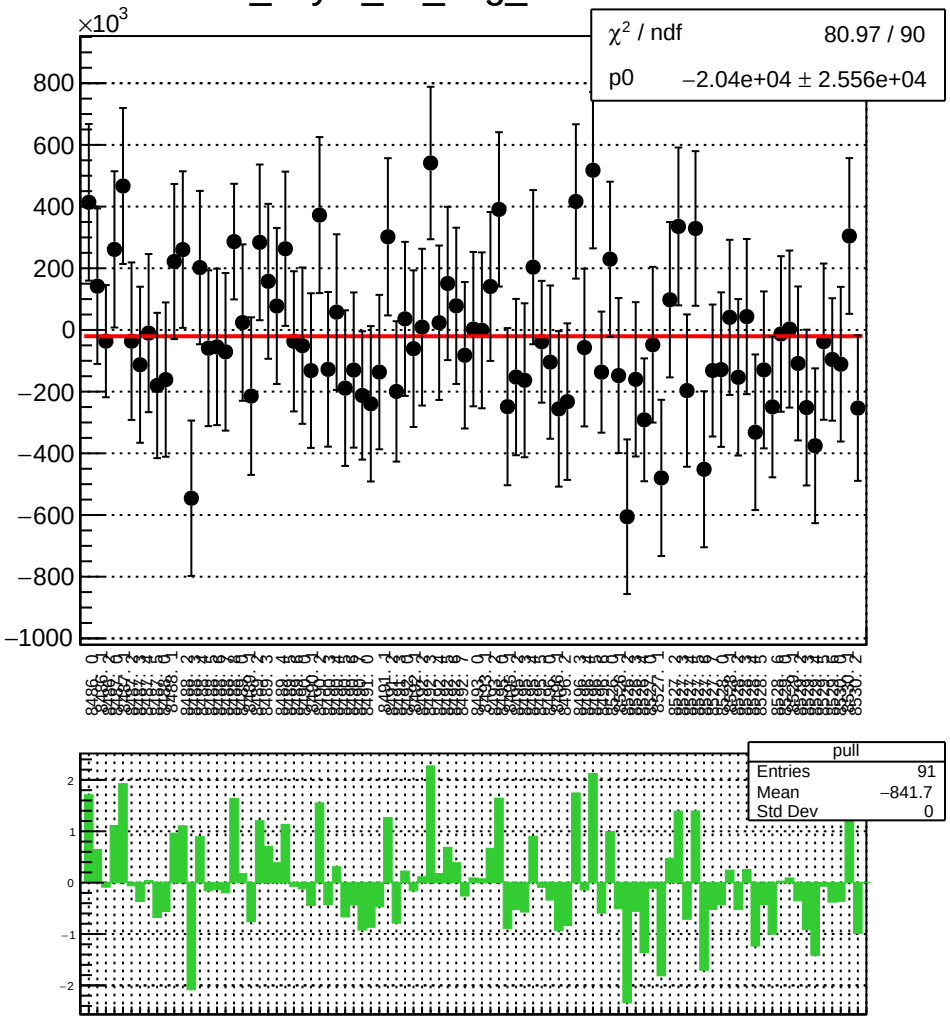

pull1D
Entries 91
Mean 0.007312
Std Dev 0.9426

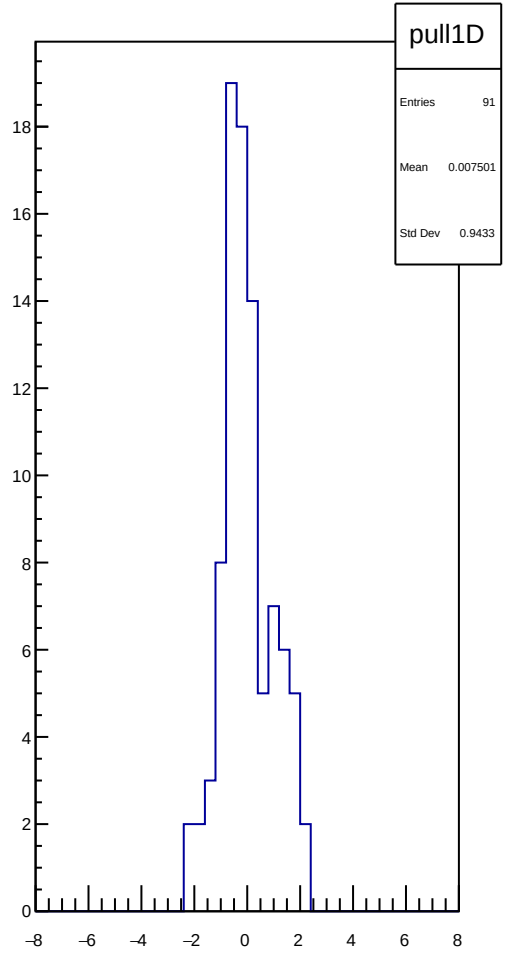

eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 106.1 / 90
p0 2.39e+04 ± 18.07
24600
24400
24200
24000
23800
23600
23400
23200

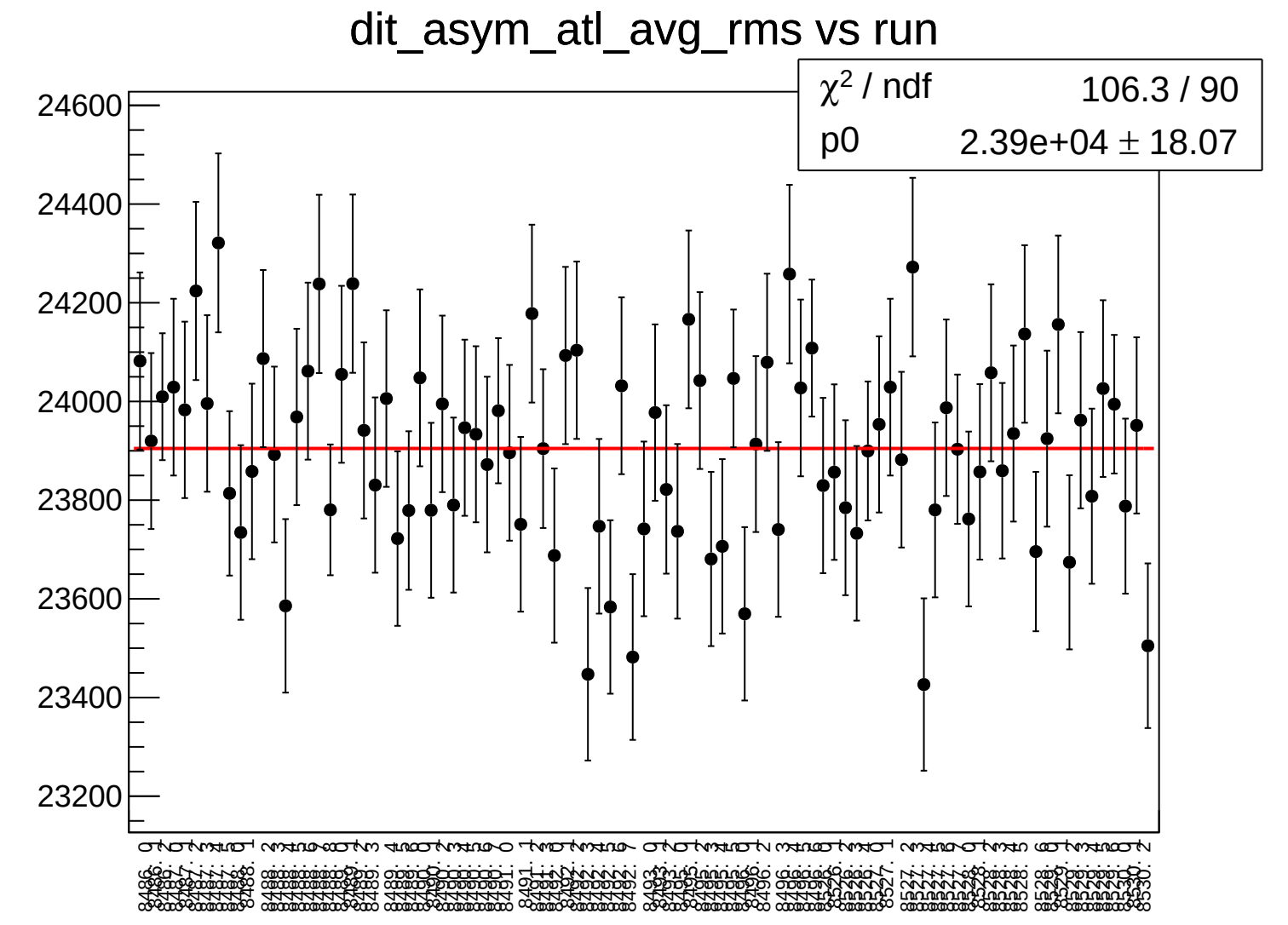

asym_atl_avg_eigen_cor_correction_mean vs run
χ² / ndf 74.17 / 90
p0 −524.9 ± 477.7
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 91
Mean −20.53
Std Dev 0
2
1
0
−1
−2

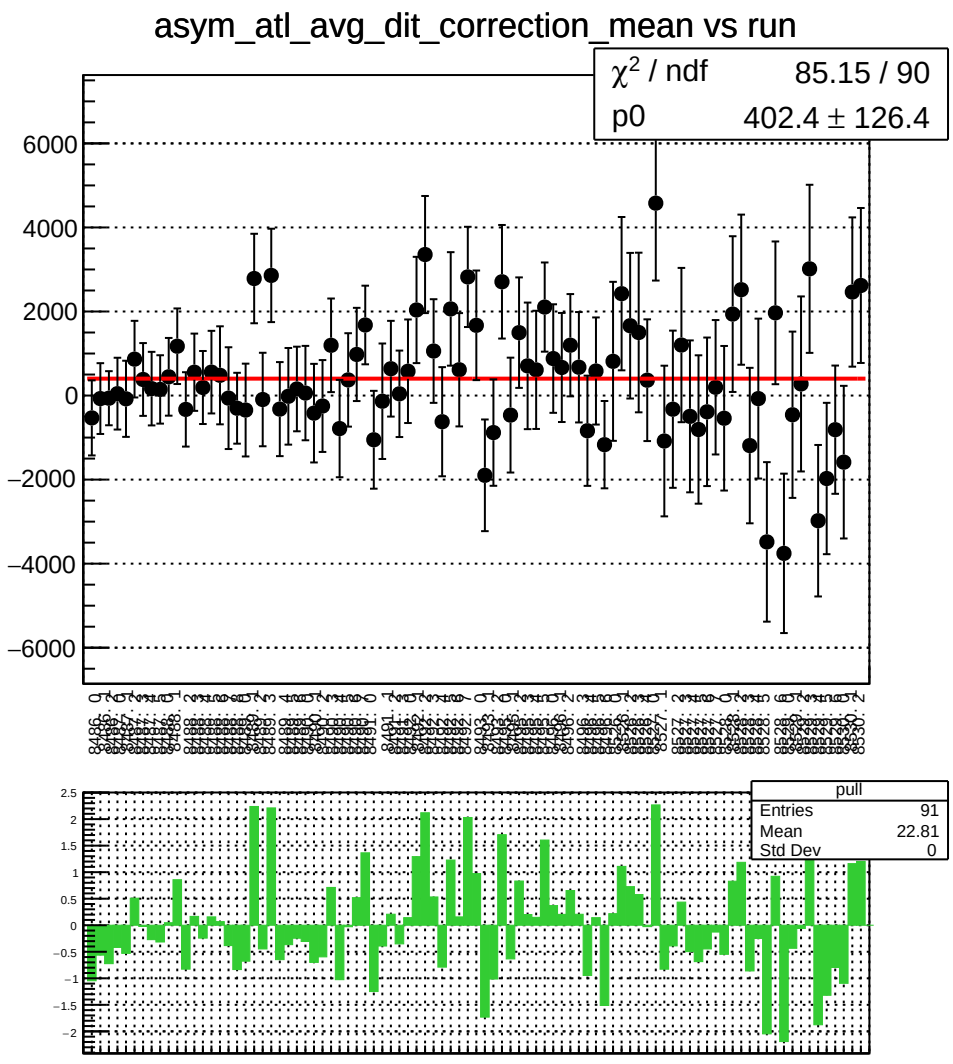

pull1D
Entries 91
Mean −0.03934
Std Dev 0.902
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

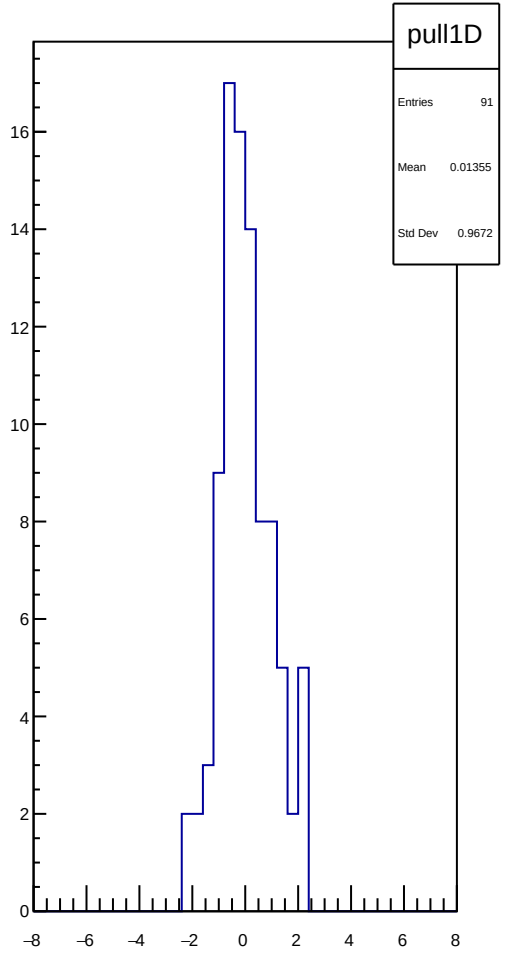

asym_atl_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 1.602e+05 / 90
p0 425.8 ± 0.3378
900
800
700
600
500
400
300
200

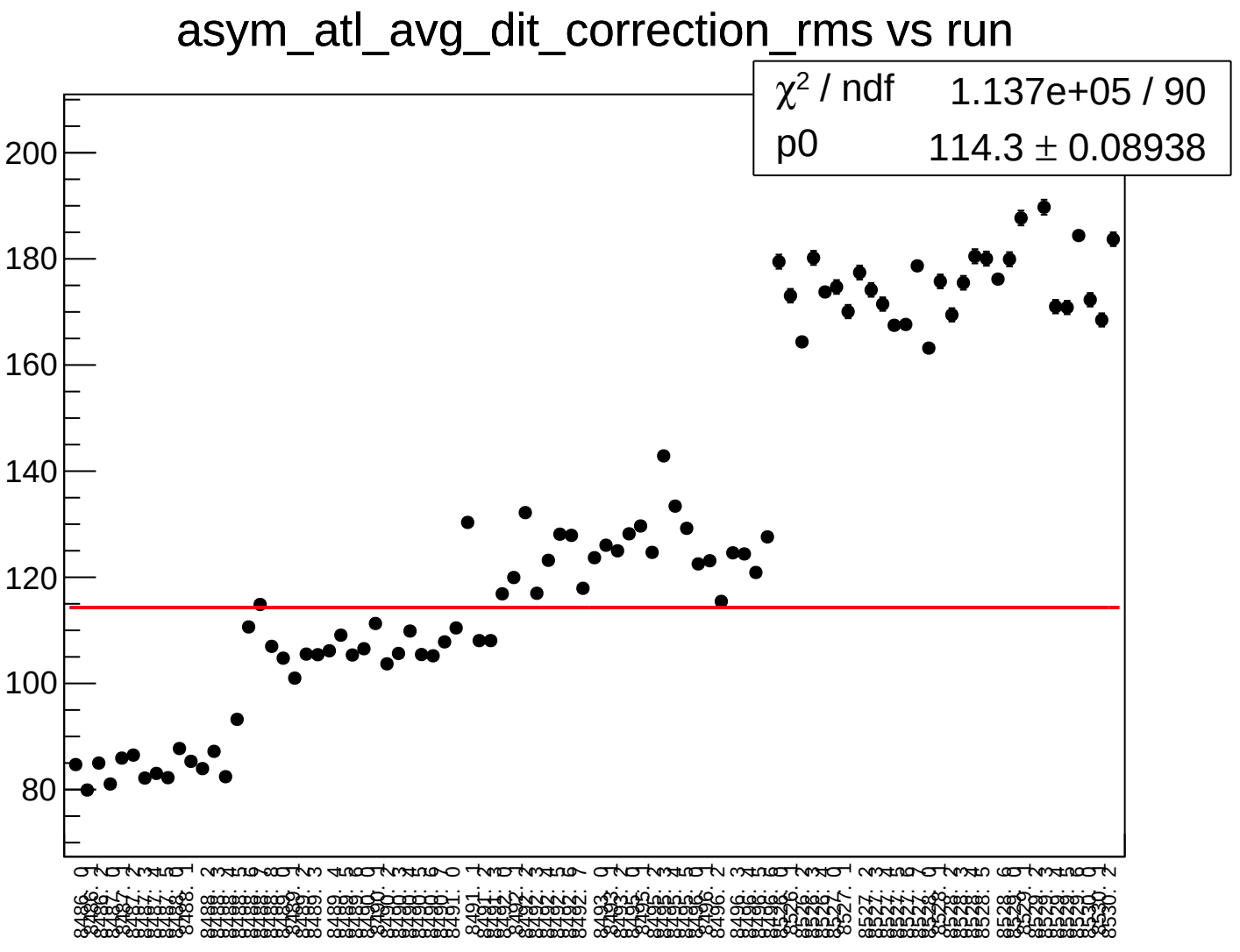

dit_asym_atl_avg_mean vs run
×10^3
χ² / ndf 80.97 / 90
p0 −2.04e+04 ± 2.556e+04
pull
Entries 91
Mean −841.7
Std Dev 0

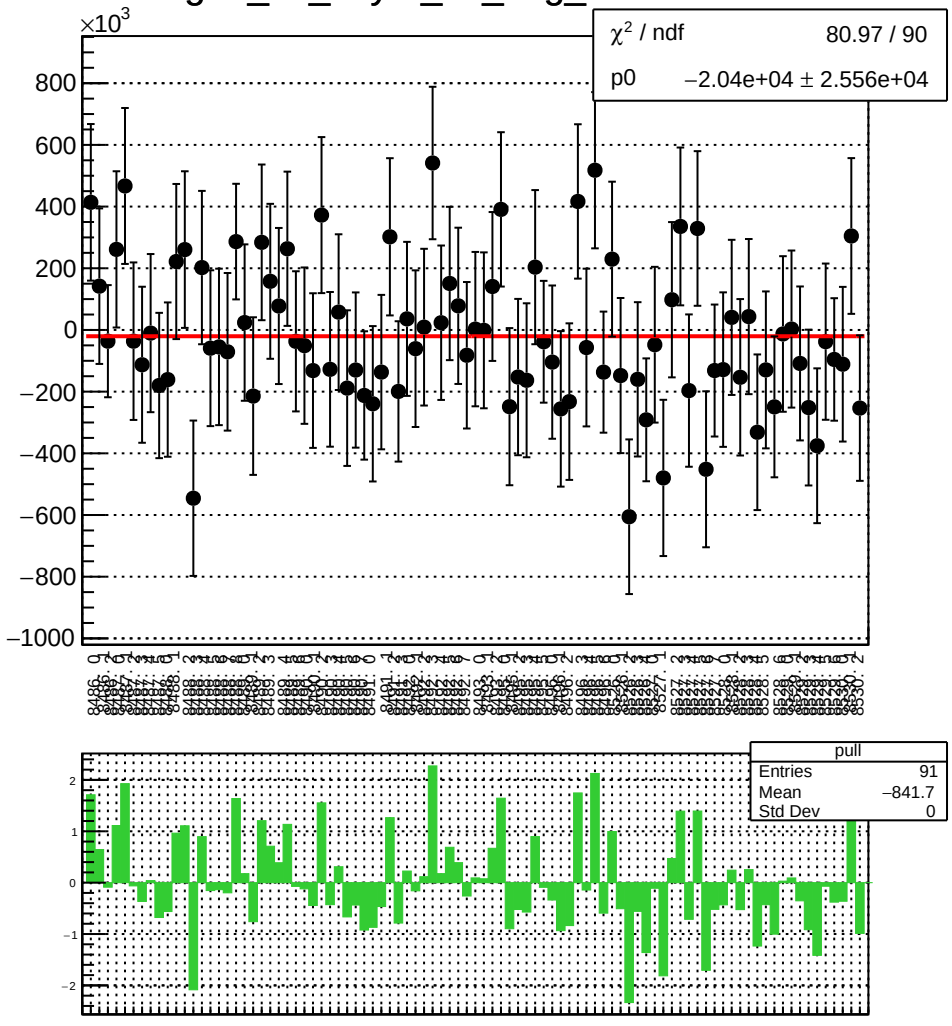

pull1D
Entries 91
Mean 0.007501
Std Dev 0.9433

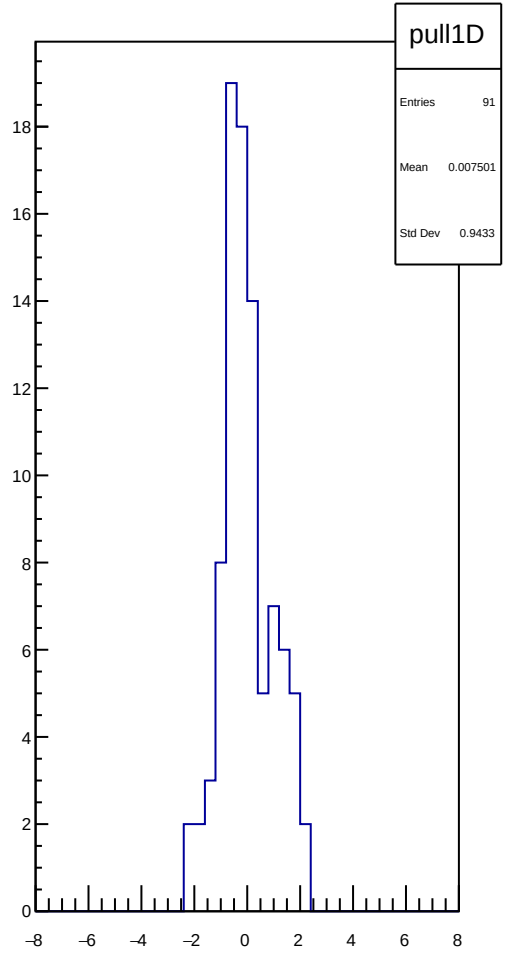

dit_asym_atl_avg_rms vs run
χ² / ndf 106.3 / 90
p0 2.39e+04 ± 18.07
24600
24400
24200
24000
23800
23600
23400
23200

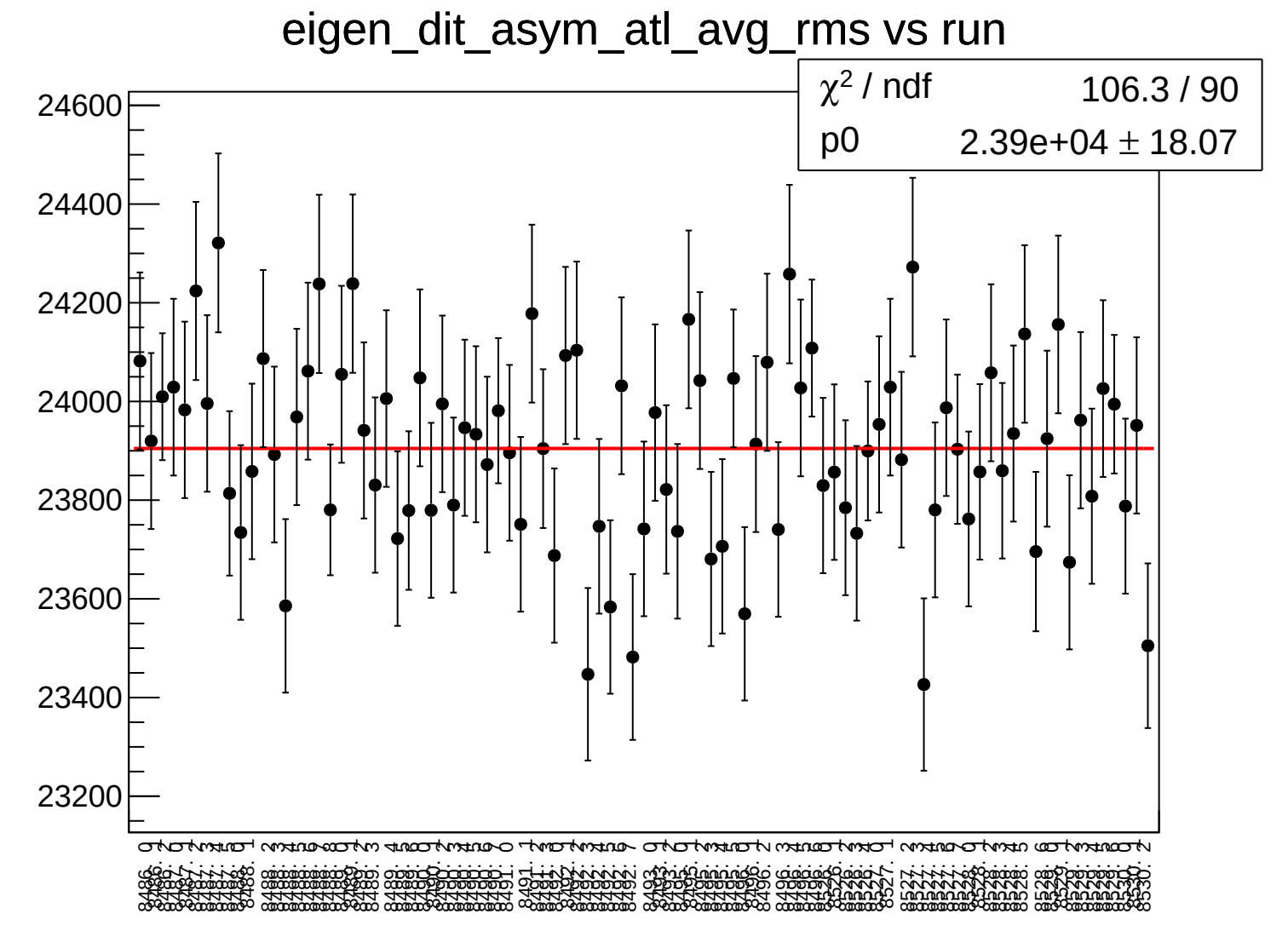

asym_atl_avg_dit_correction_mean vs run
χ² / ndf 85.15 / 90
p0 402.4 ± 126.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean 22.81
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

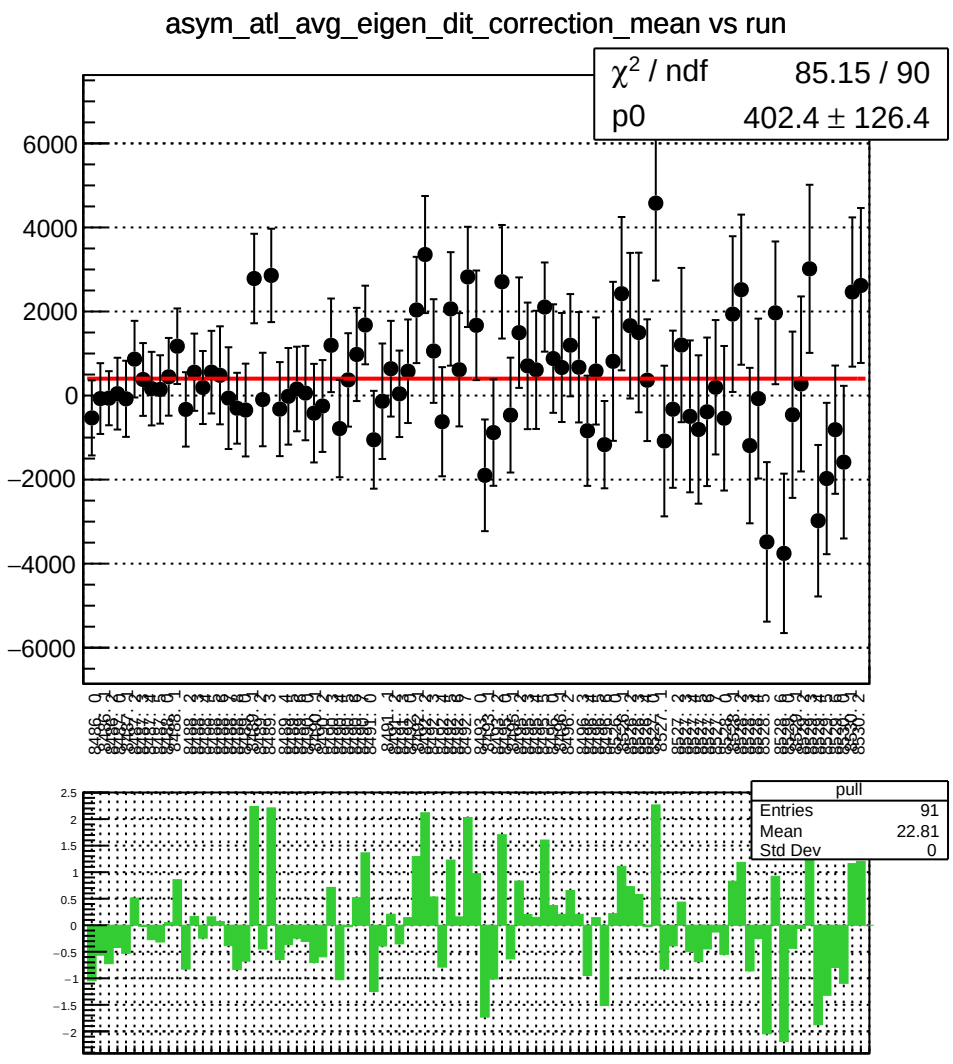

pull1D
Entries 91
Mean 0.01355
Std Dev 0.9672
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

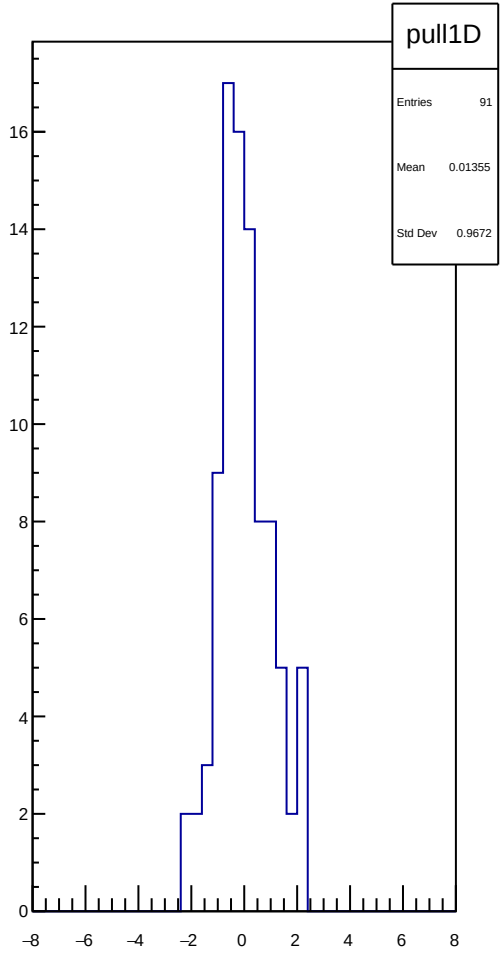

asym_atl_avg_dit_correction_rms vs run
χ² / ndf 1.137e+05 / 90
p0 114.3 ± 0.08938
200
180
160
140
120
100
80

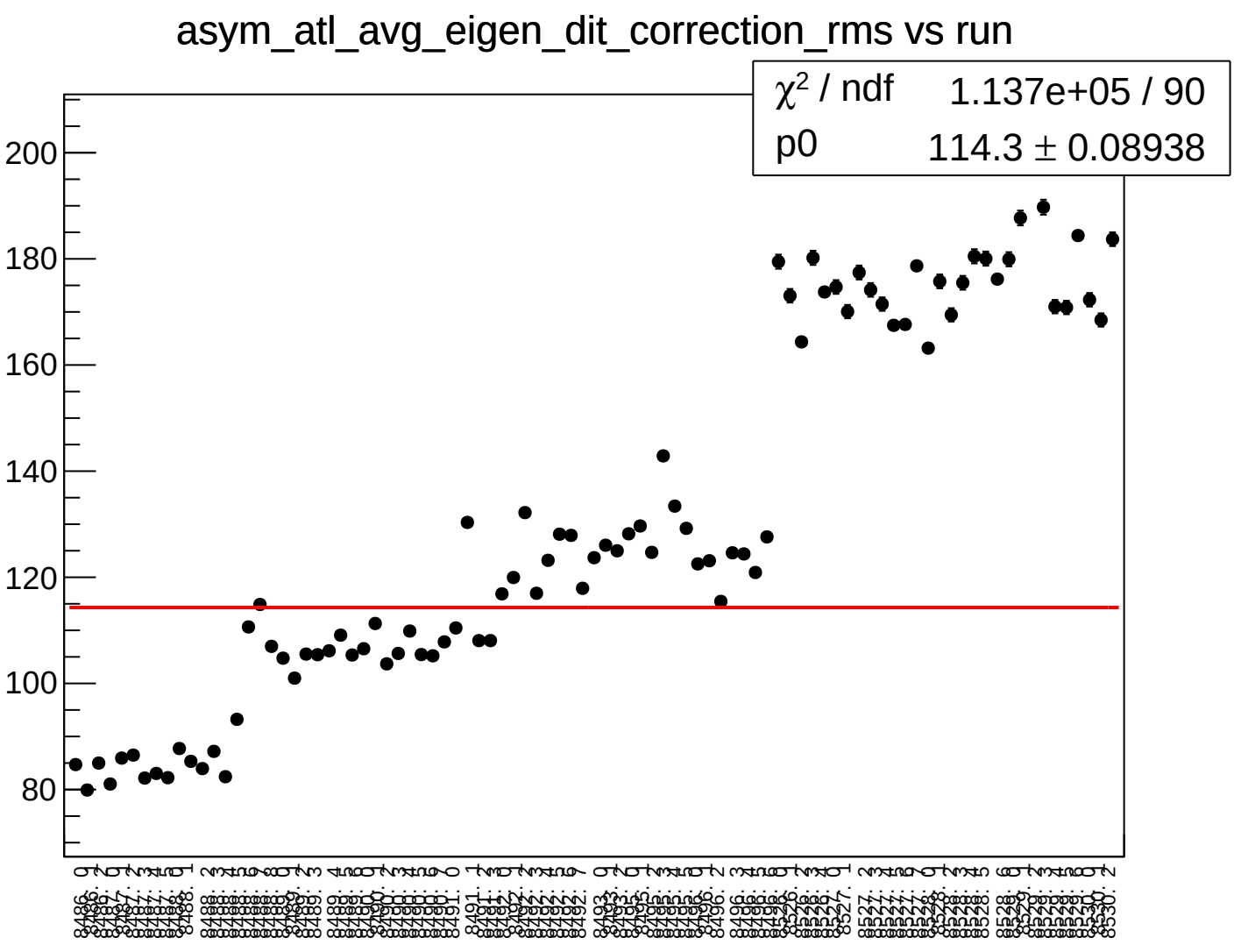

eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 80.97 / 90
p0 −2.04e+04 ± 2.556e+04
×10³
pull
Entries 91
Mean −841.7
Std Dev 0

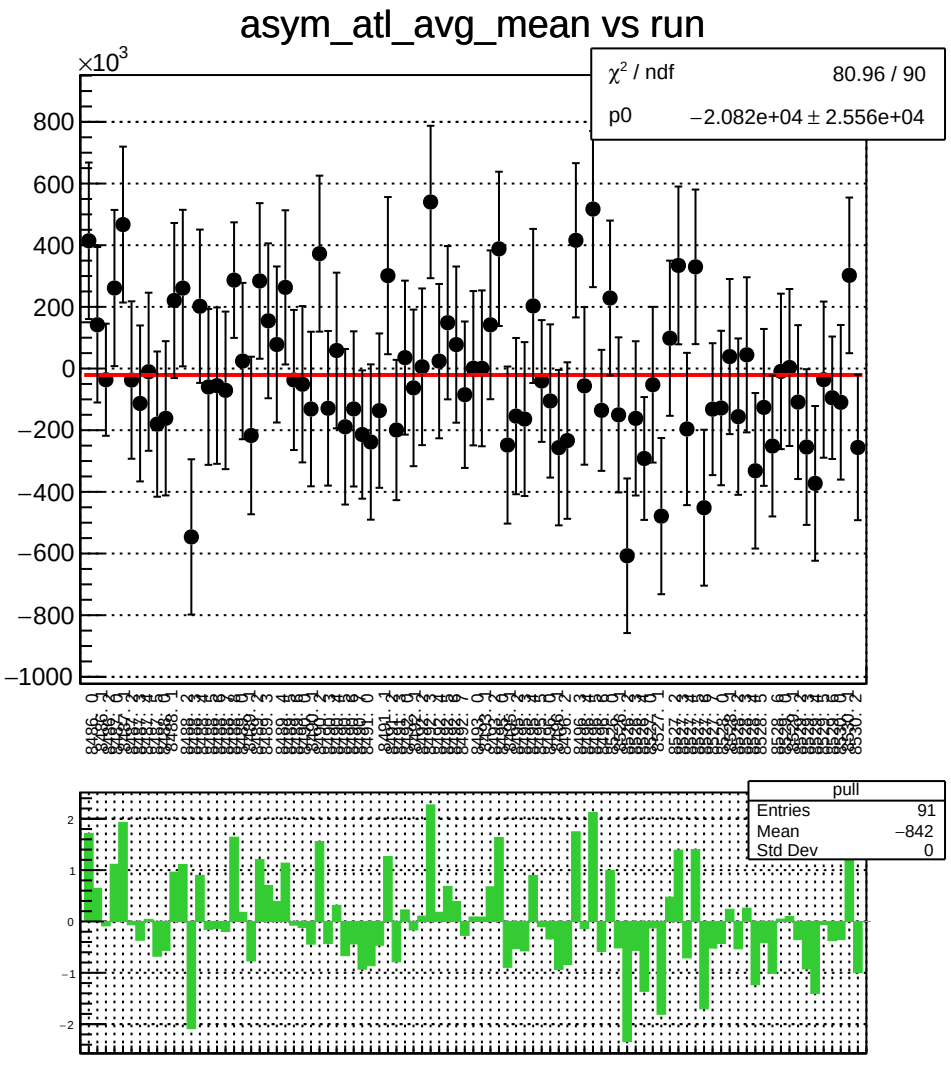

pull1D
Entries 91
Mean 0.007501
Std Dev 0.9433

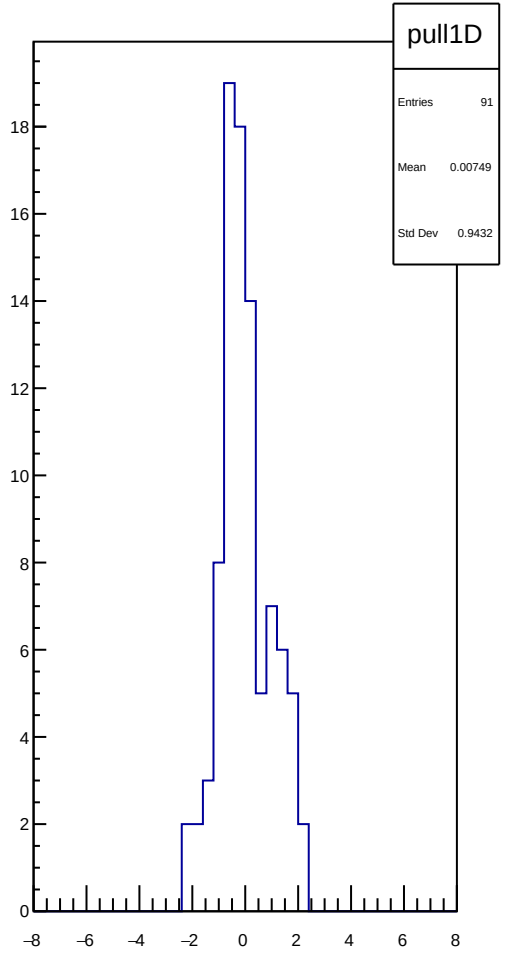

eigen_dit_asym_atl_avg_rms vs run
χ² / ndf 106.3 / 90
p0 2.39e+04 ± 18.07
24600
24400
24200
24000
23800
23600
23400
23200

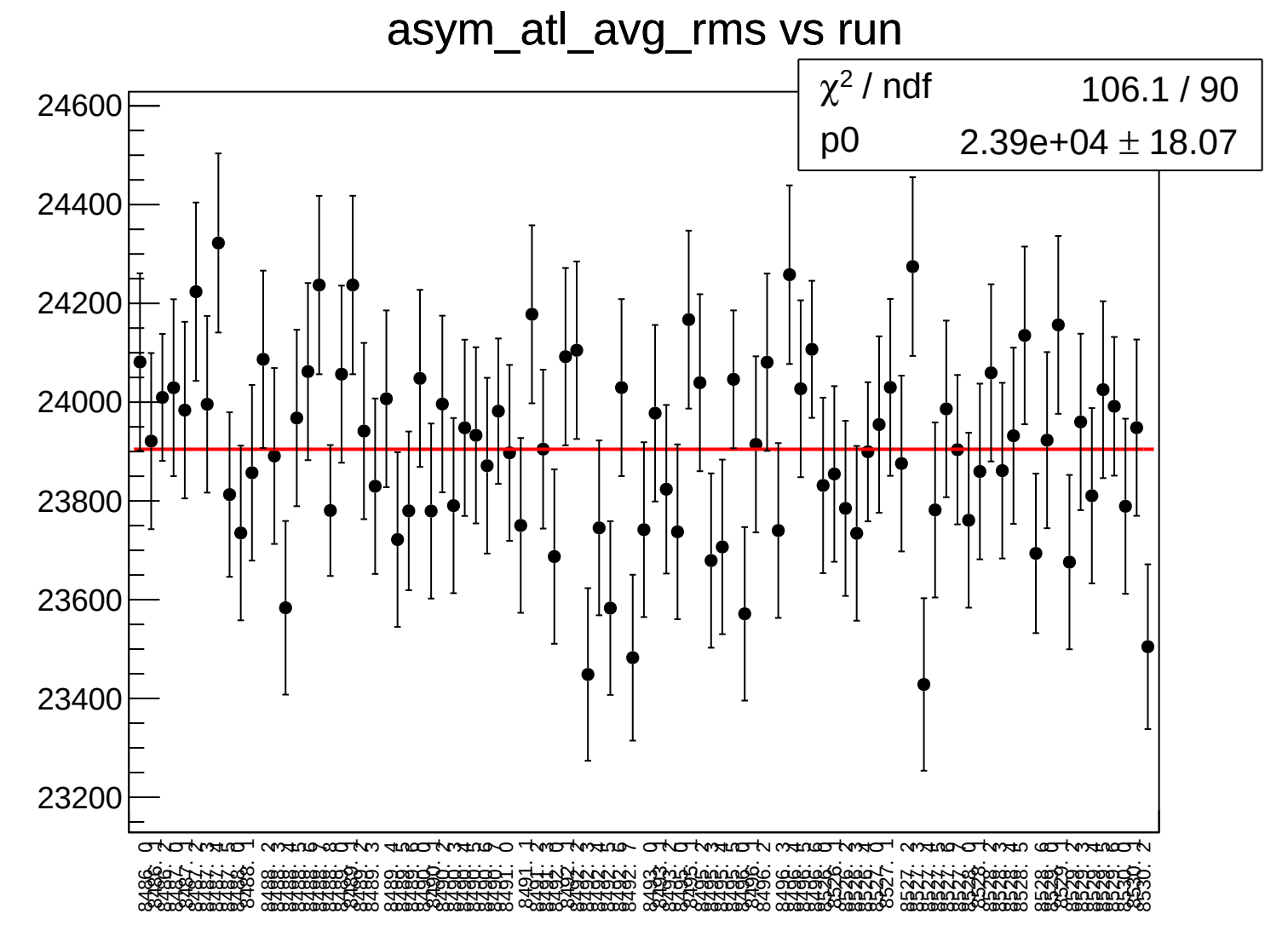

asym_atl_avg_eigen_dit_correction_mean vs run
χ² / ndf 85.15 / 90
p0 402.4 ± 126.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean 22.81
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

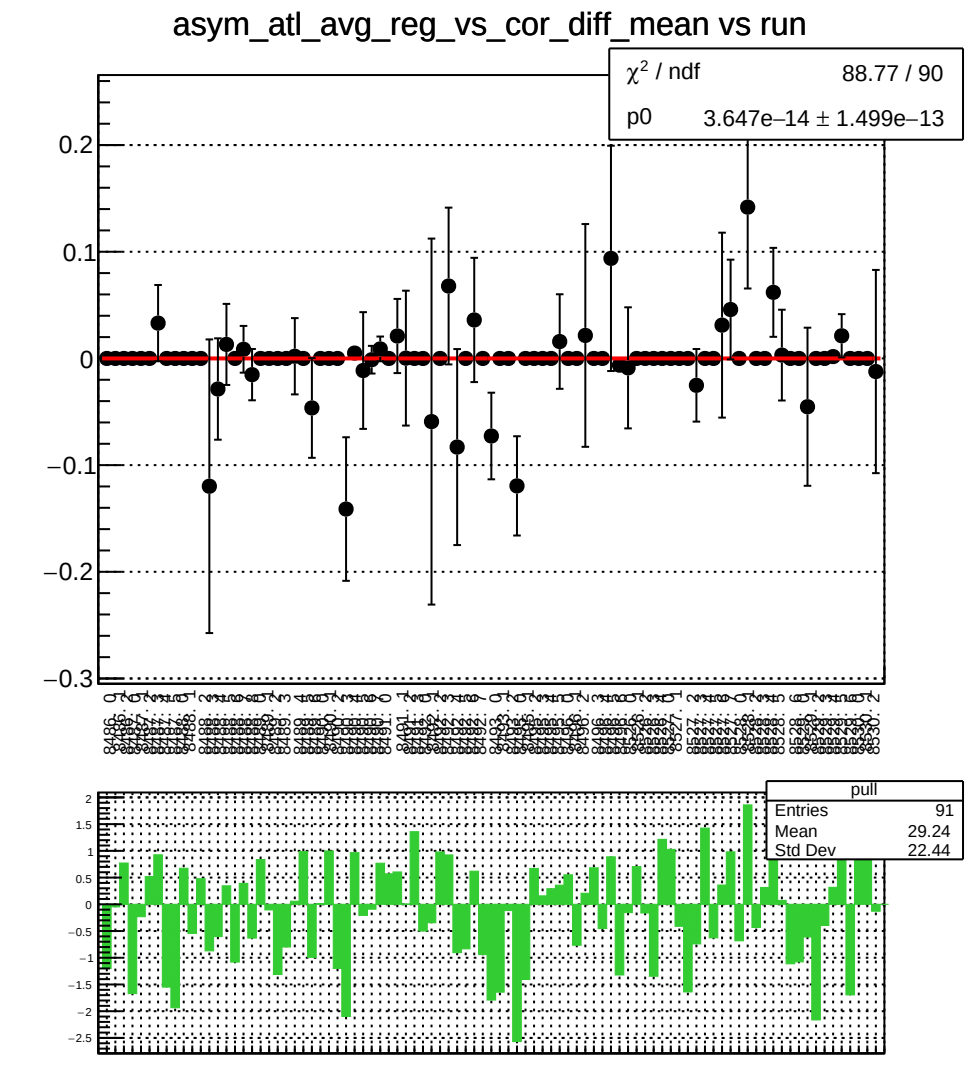

pull1D
Entries 91
Mean 0.01355
Std Dev 0.9672
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

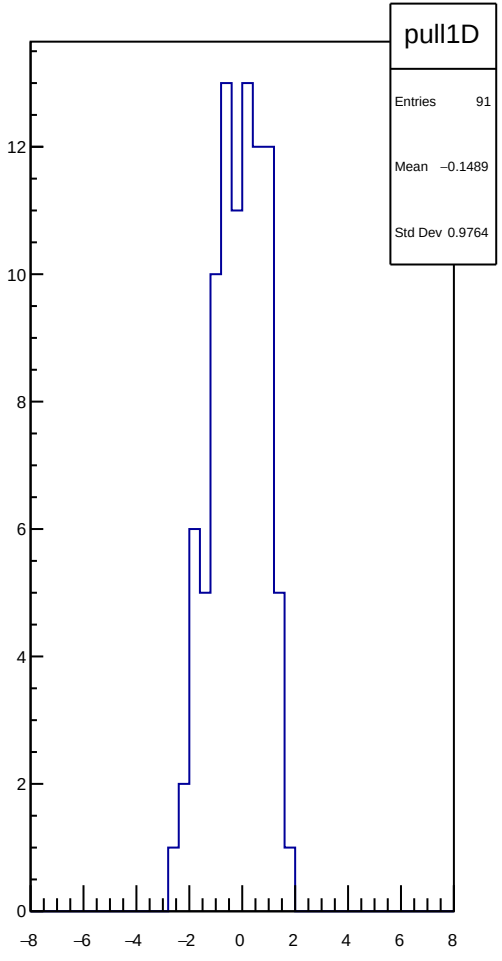

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.137e+05 / 90
p0 114.3 ± 0.08938
200
180
160
140
120
100
80

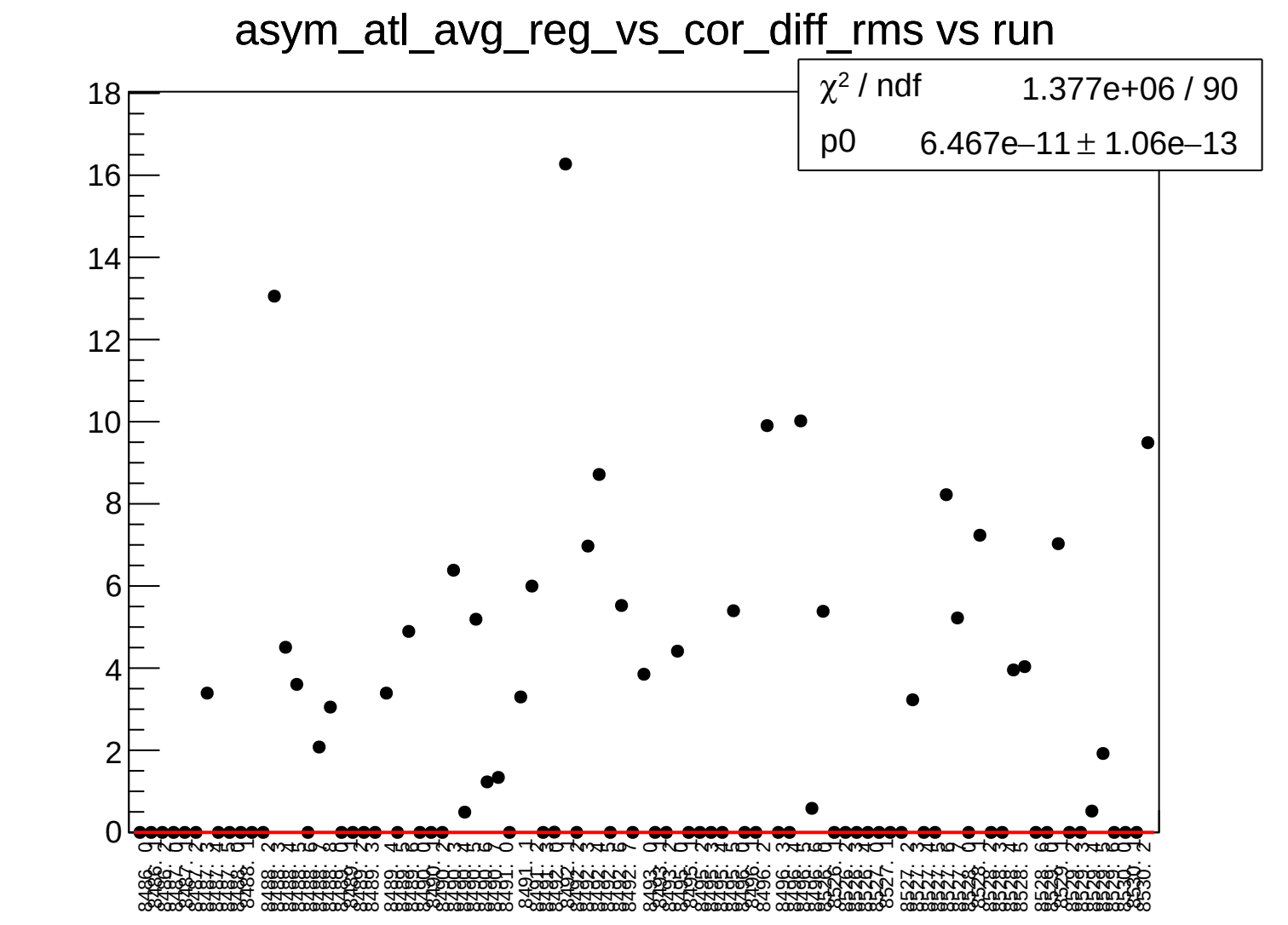

asym_atl_avg_mean vs run
×10^3
χ² / ndf 80.96 / 90
p0 −2.082e+04 ± 2.556e+04
pull
Entries 91
Mean −842
Std Dev 0

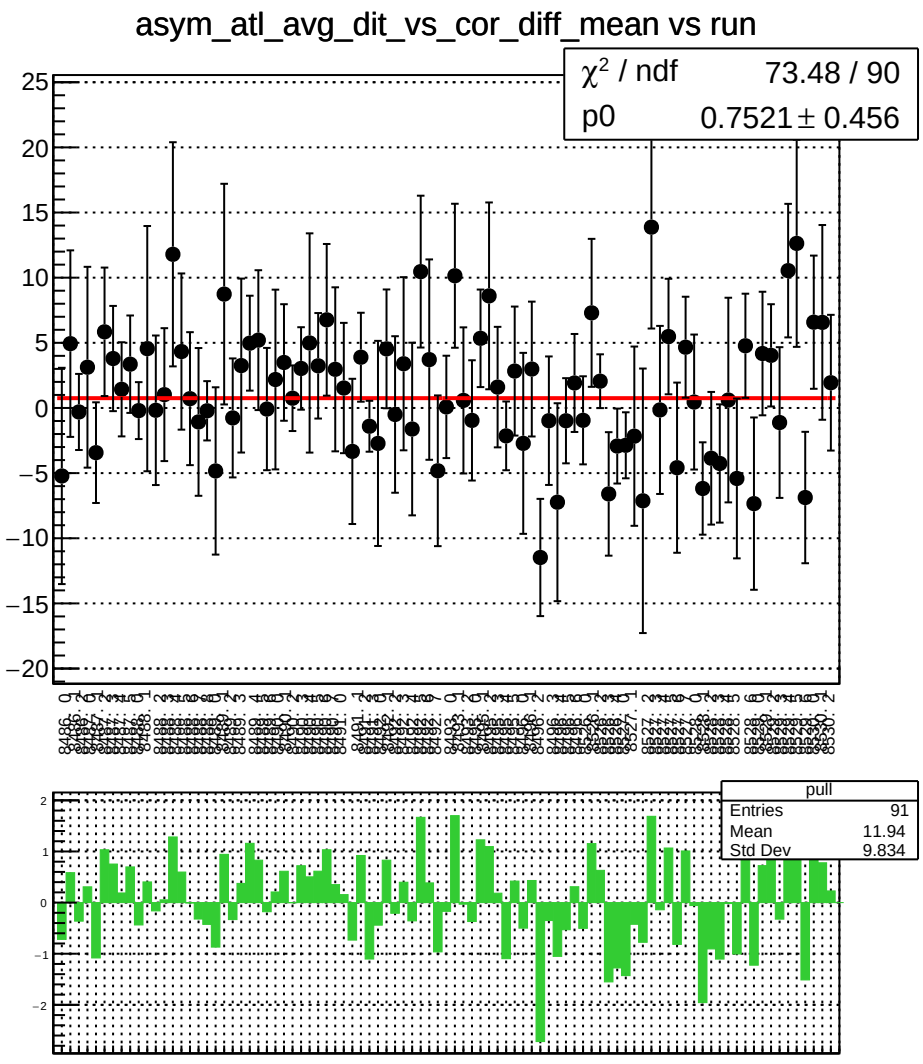

pull1D
Entries 91
Mean 0.00749
Std Dev 0.9432

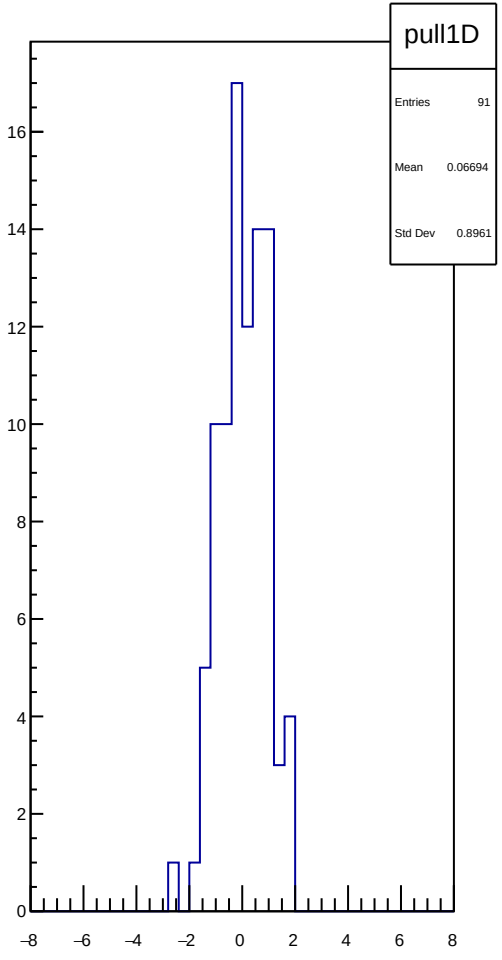

asym_atl_avg_rms vs run
χ² / ndf 106.1 / 90
p0 2.39e+04 ± 18.07
24600
24400
24200
24000
23800
23600
23400
23200

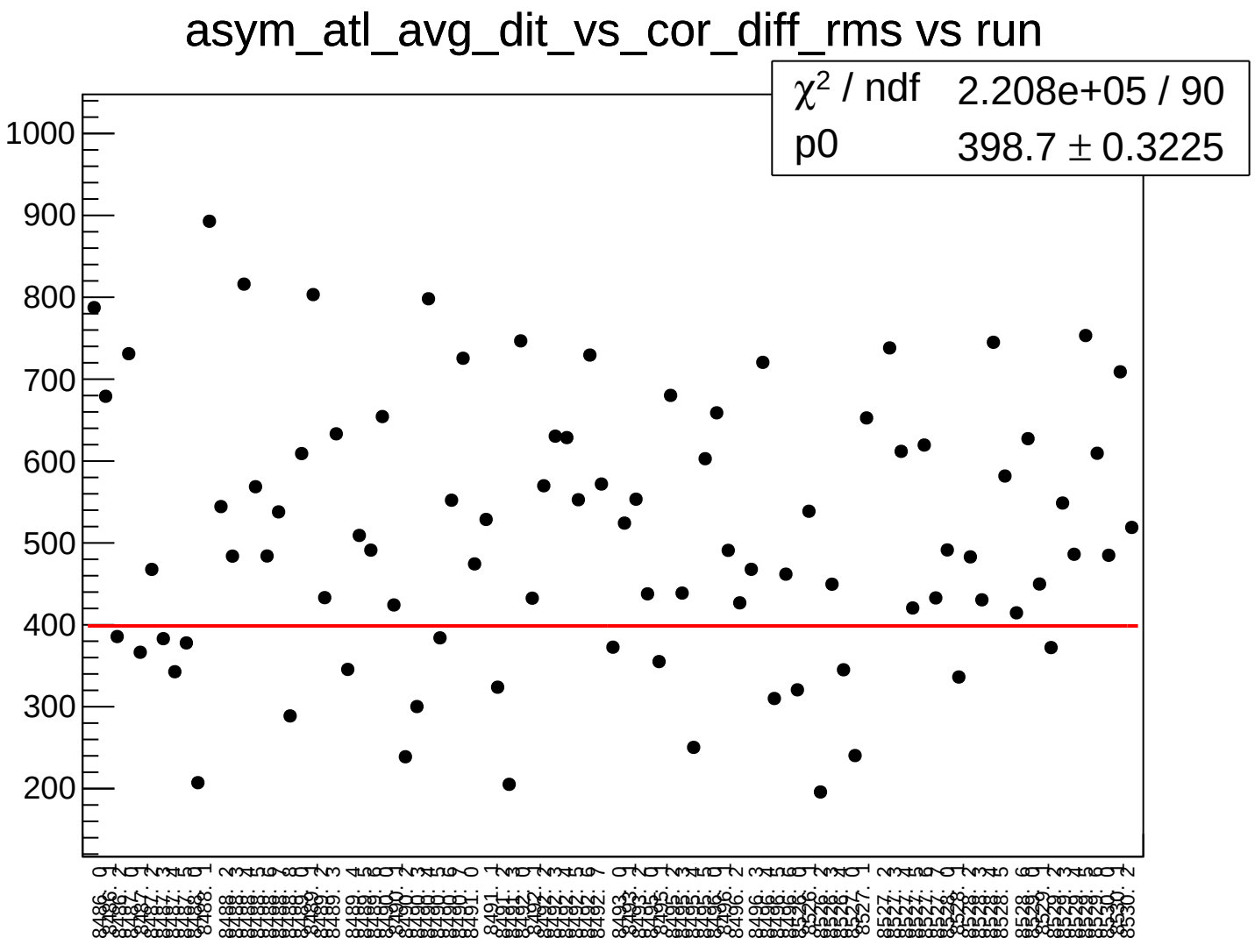

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 88.77 / 90
p0 3.647e−14 ± 1.499e−13
pull
Entries 91
Mean 29.24
Std Dev 22.44

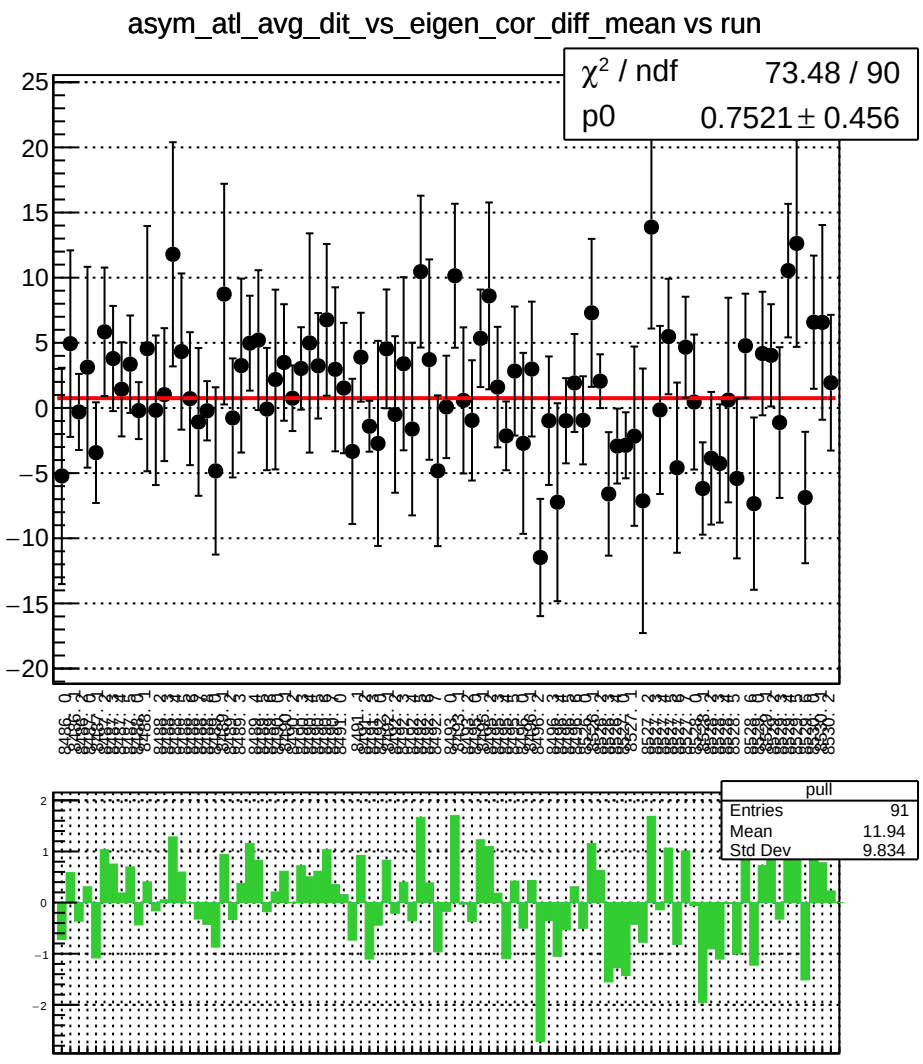

pull1D
Entries 91
Mean −0.1489
Std Dev 0.9764

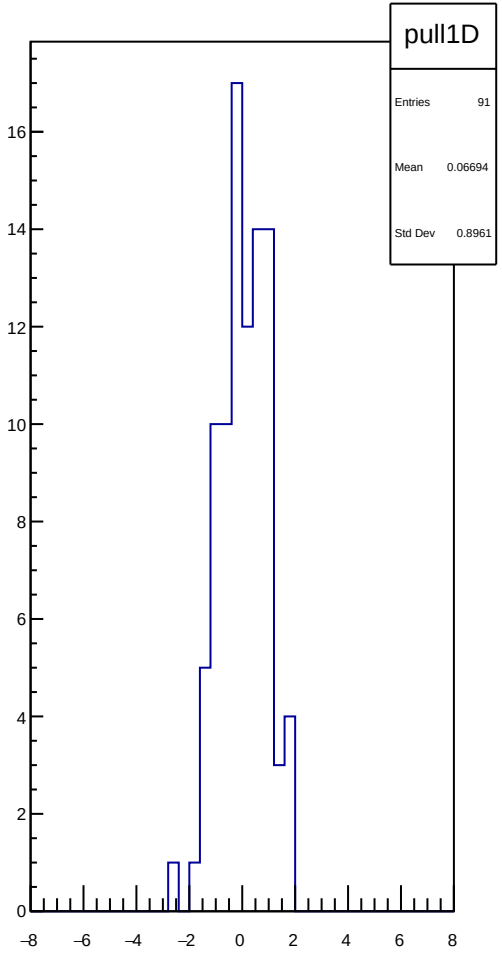

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.377e+06 / 90
p0 6.467e−11 ± 1.06e−13
18
16
14
12
10
8
6
4
2
0

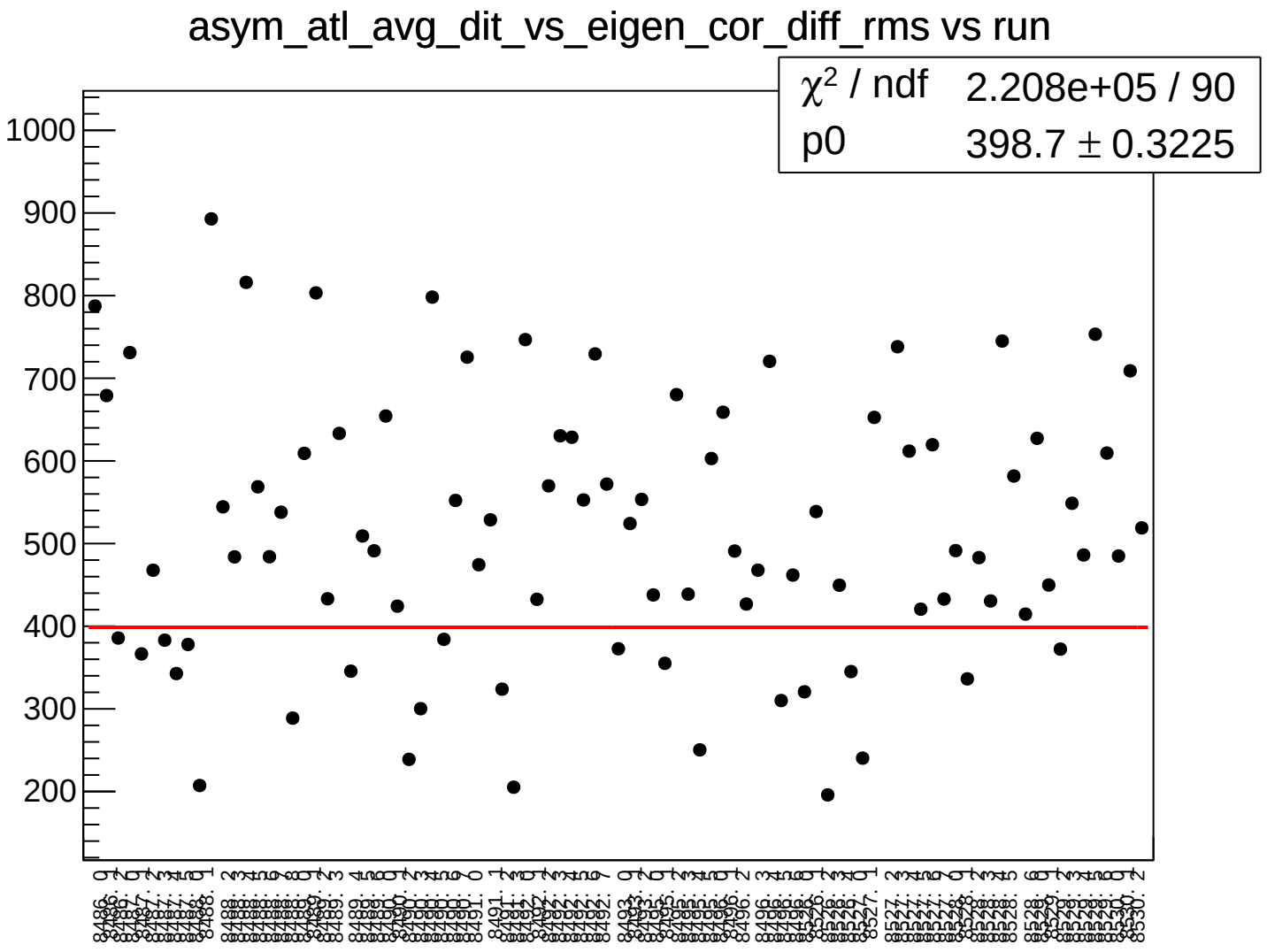

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 73.48 / 90
p0 0.7521 ± 0.456
pull
Entries 91
Mean 11.94
Std Dev 9.834

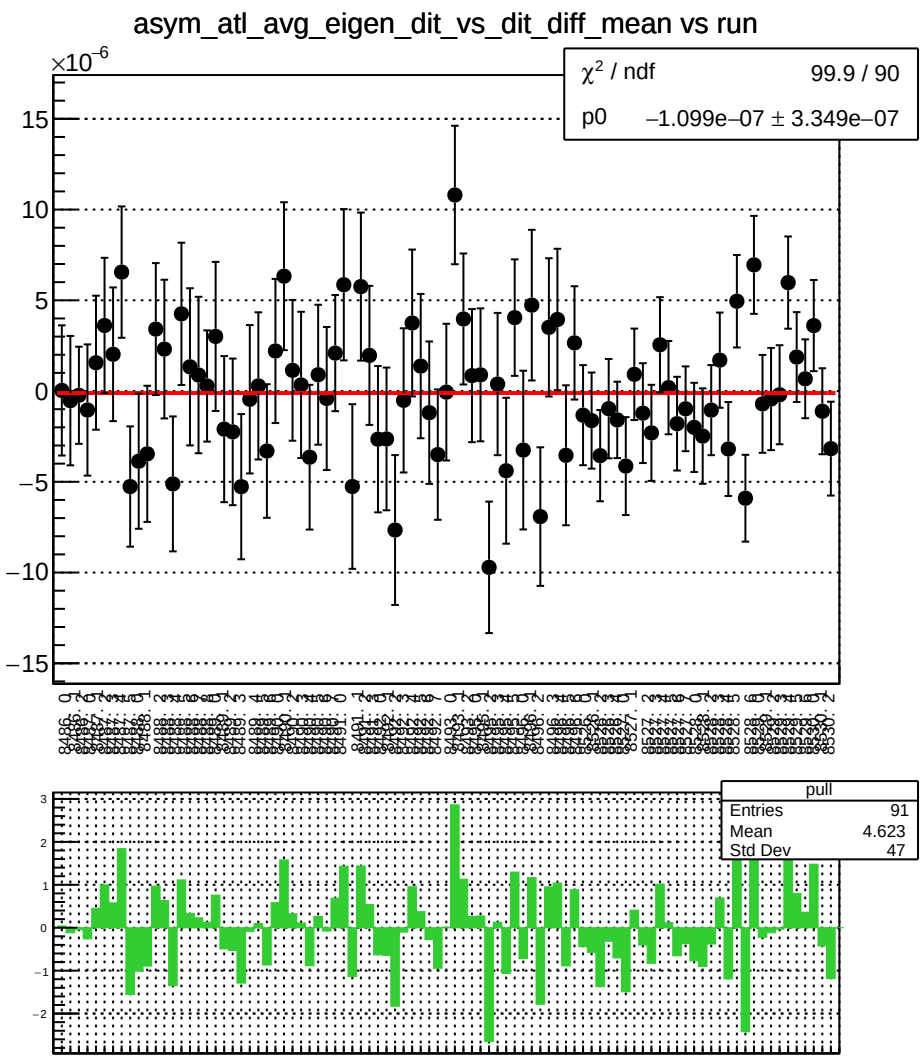

pull1D
Entries 91
Mean 0.06694
Std Dev 0.8961

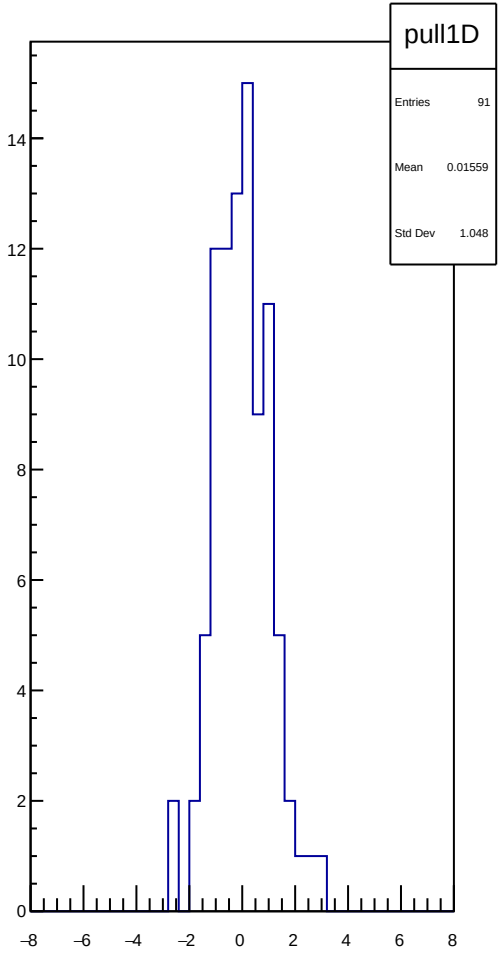

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.208e+05 / 90
p0 398.7 ± 0.3225
1000
900
800
700
600
500
400
300
200

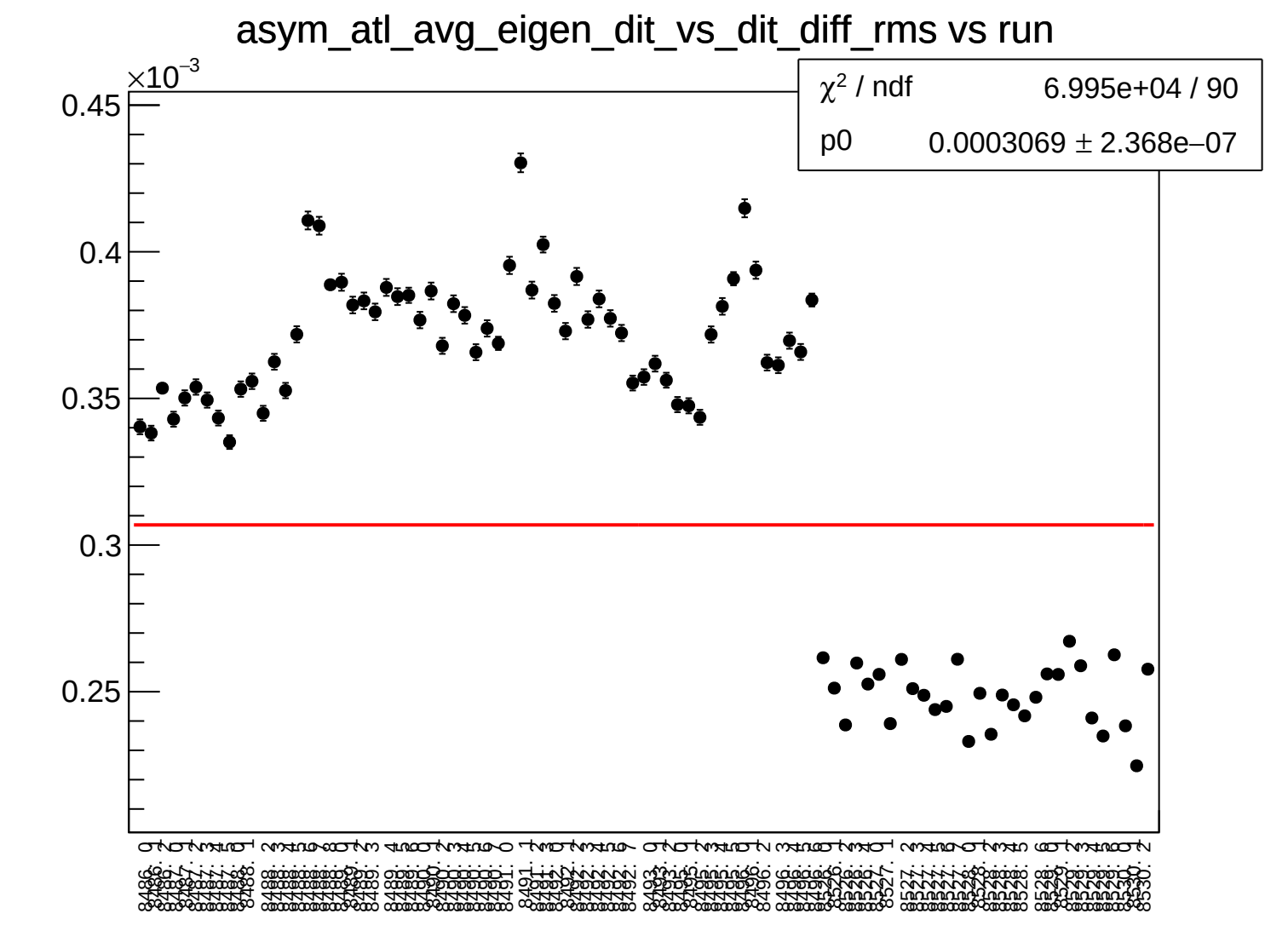

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.48 / 90
p0 0.7521 ± 0.456
pull
Entries 91
Mean 11.94
Std Dev 9.834

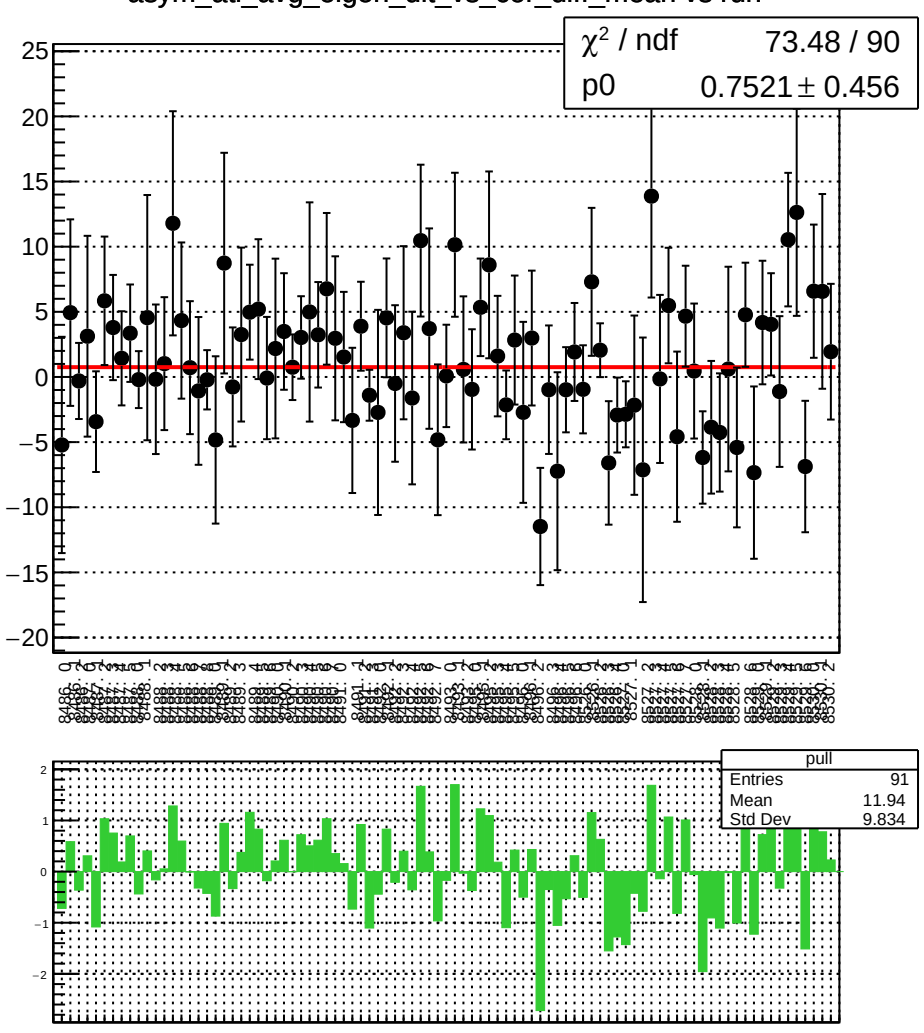

pull1D
Entries 91
Mean 0.06694
Std Dev 0.8961

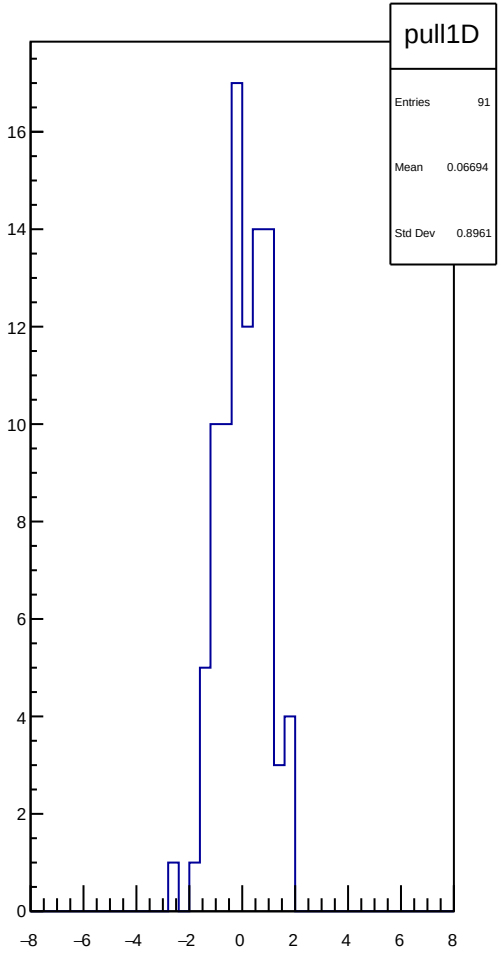

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.208e+05 / 90
p0 398.7 ± 0.3225
1000
900
800
700
600
500
400
300
200

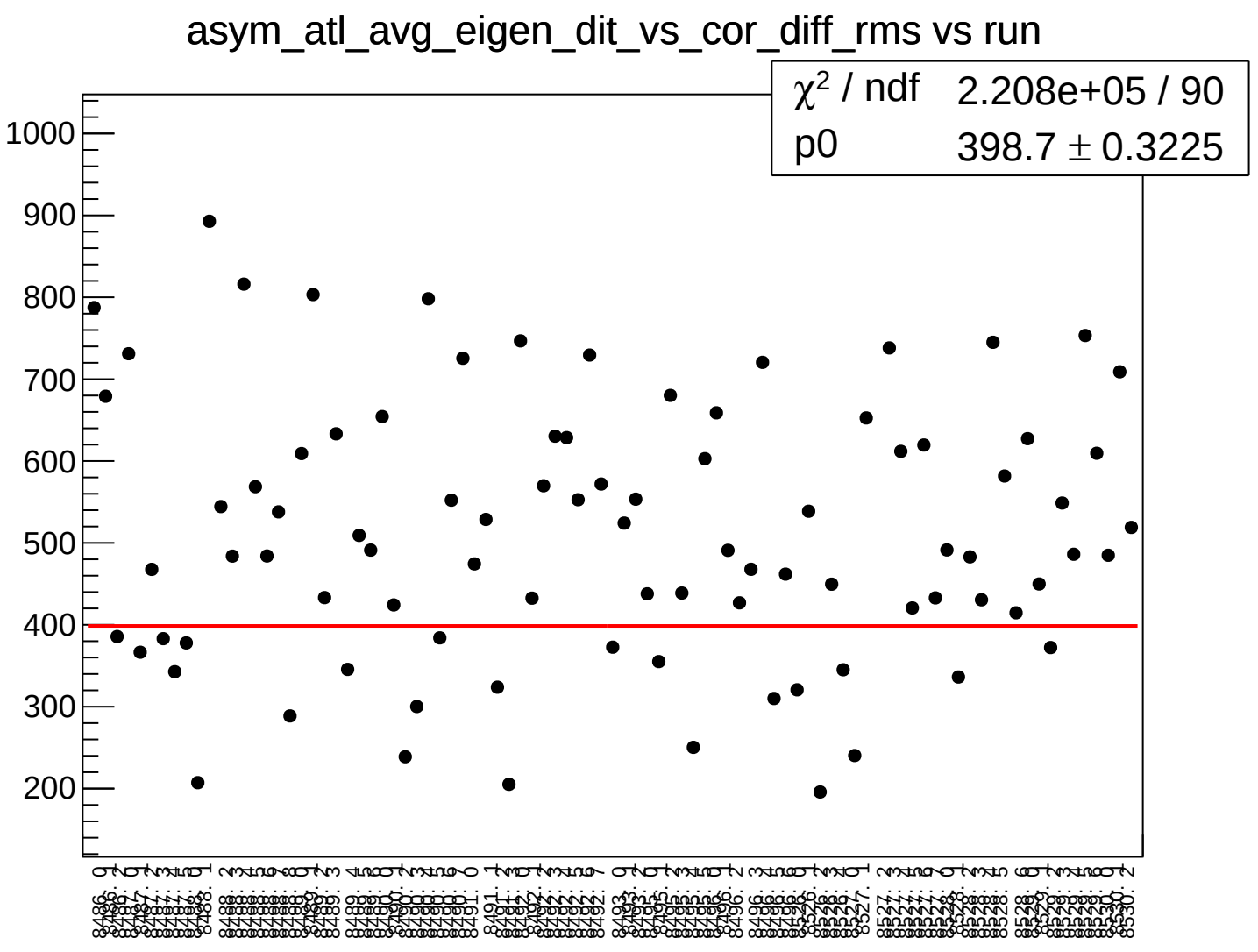

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 99.9 / 90
p0 −1.099e−07 ± 3.349e−07
pull
Entries 91
Mean 4.623
Std Dev 47

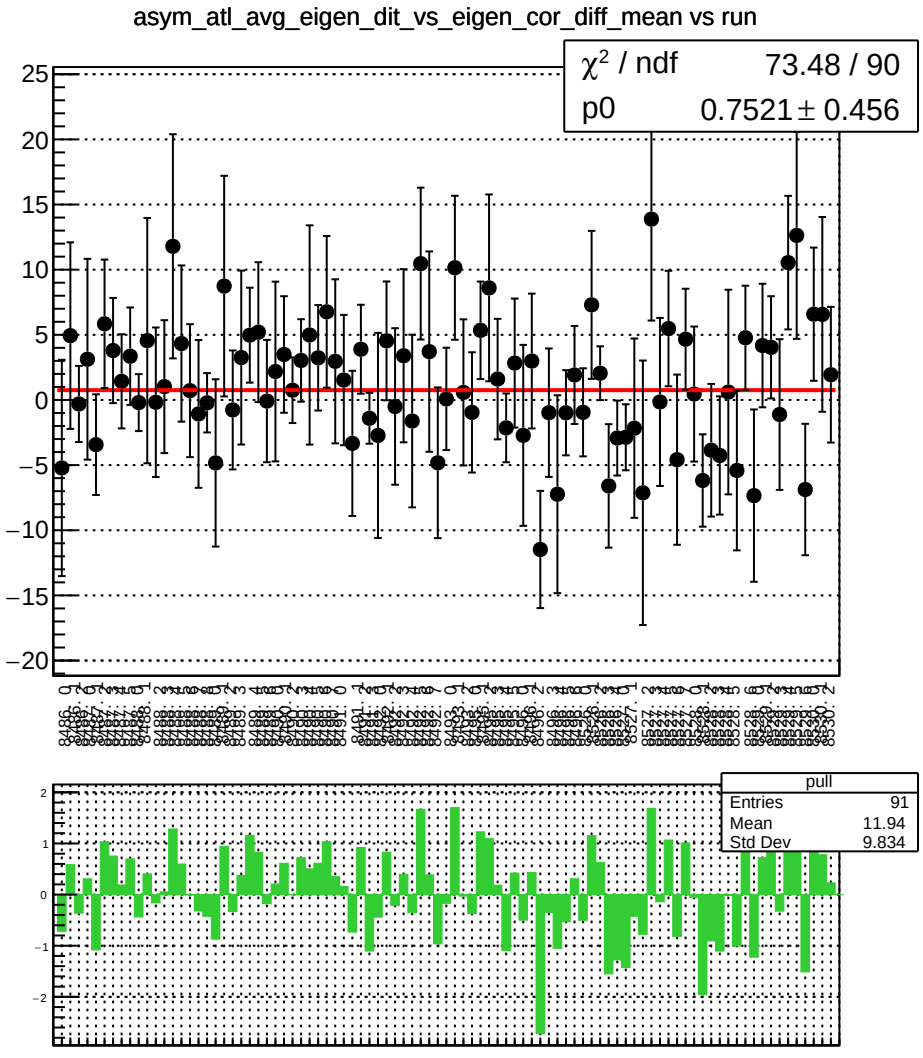

pull1D
Entries 91
Mean 0.01559
Std Dev 1.048

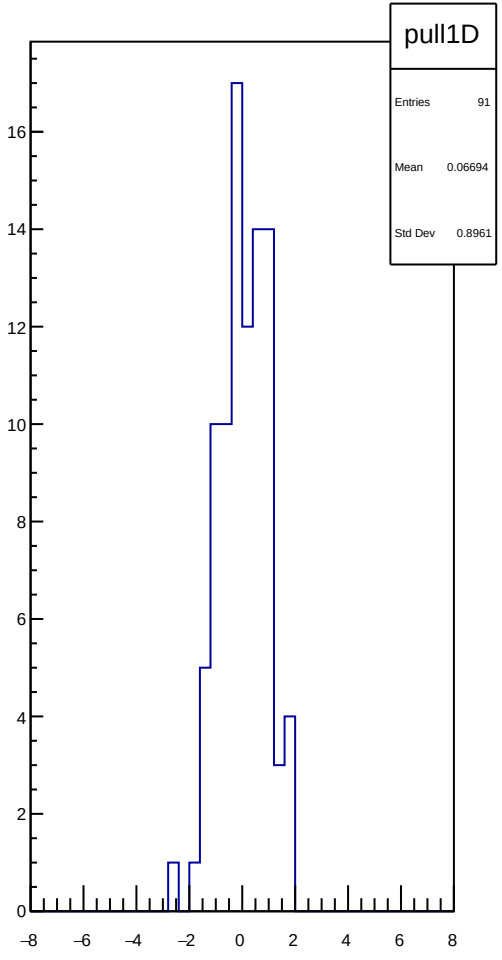

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 6.995e+04 / 90
p0 0.0003069 ± 2.368e−07
0.45
0.4
0.35
0.3
0.25

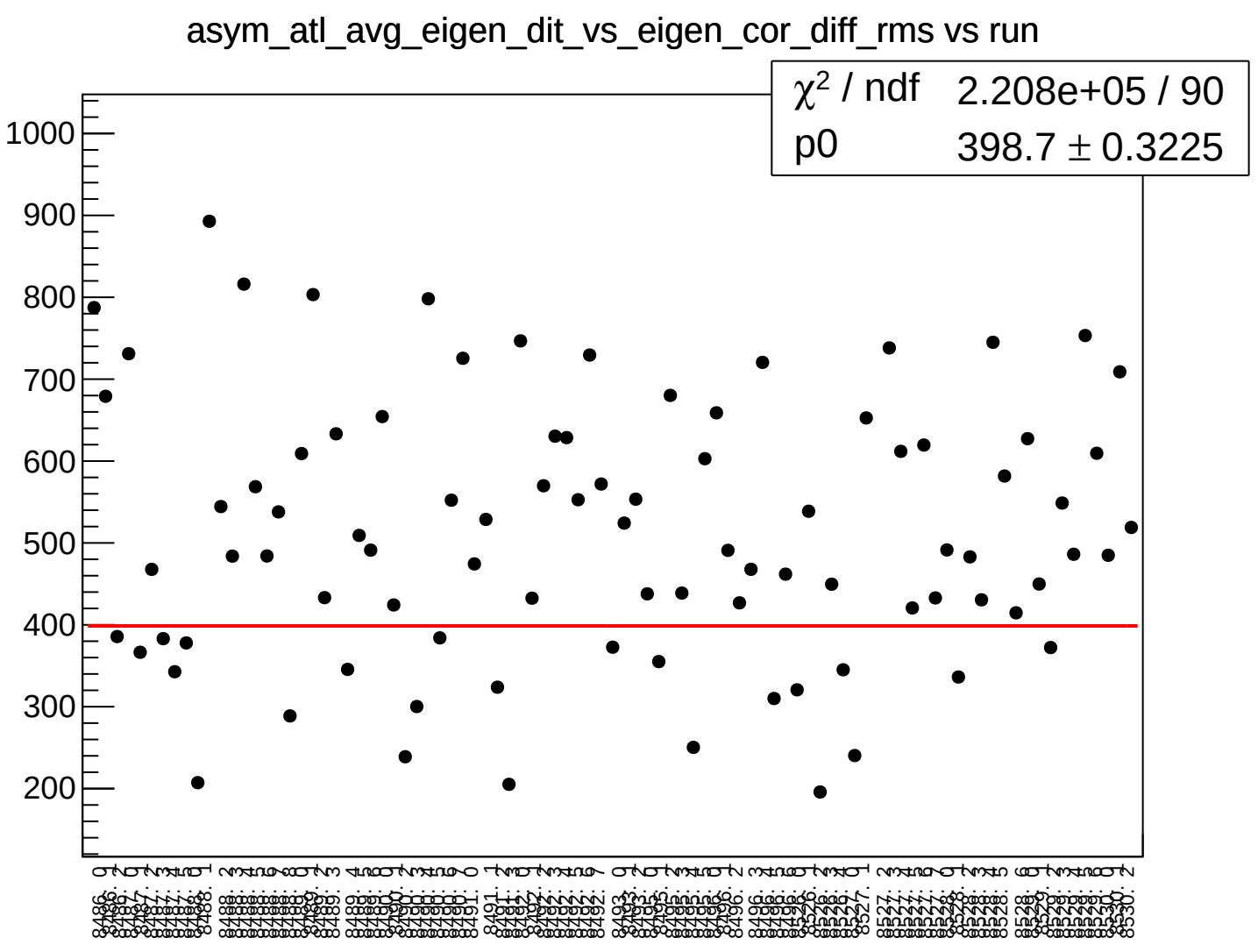

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.48 / 90
p0 0.7521 ± 0.456
pull
Entries 91
Mean 11.94
Std Dev 9.834

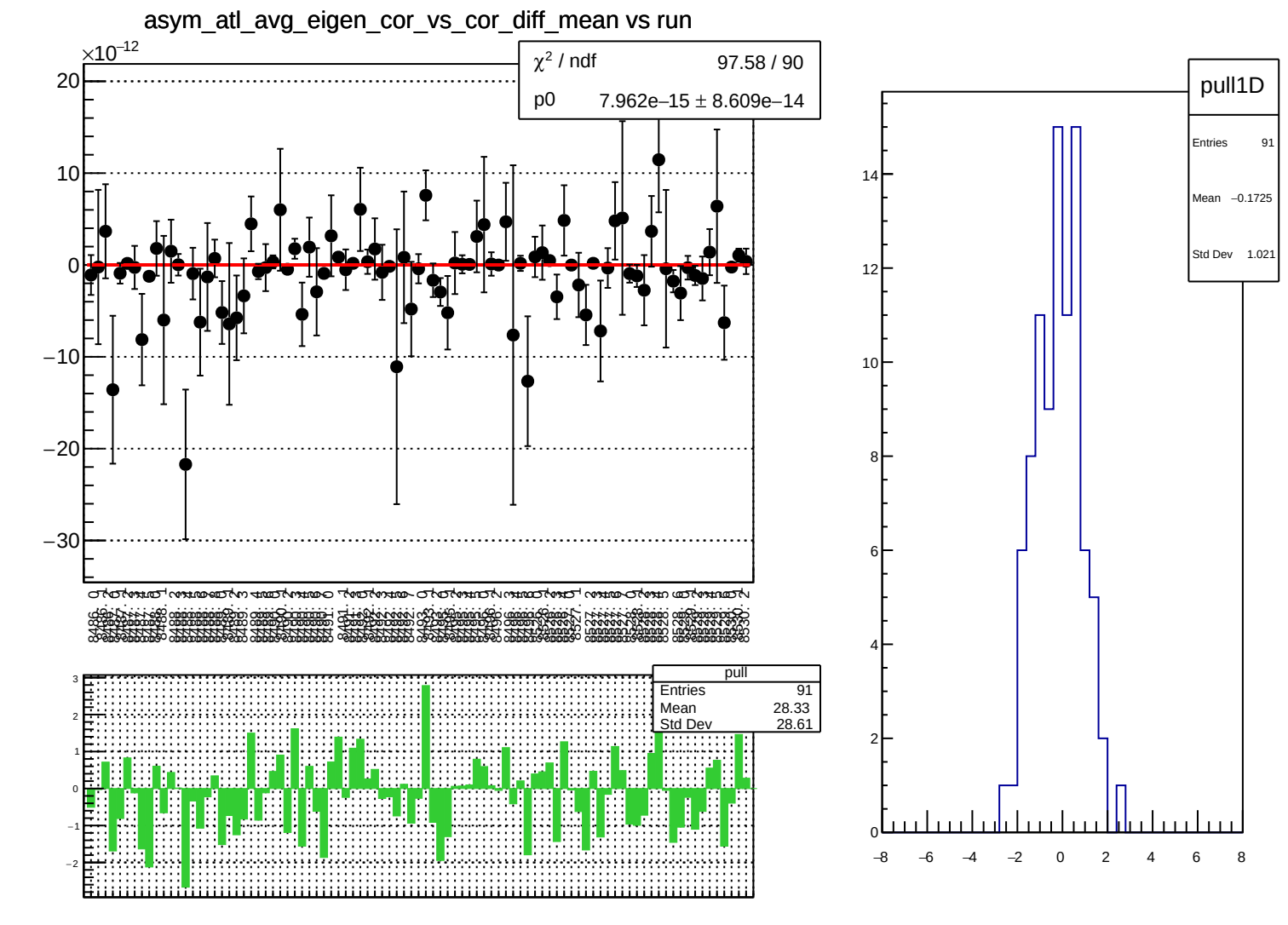

pull1D
Entries 91
Mean 0.06694
Std Dev 0.8961

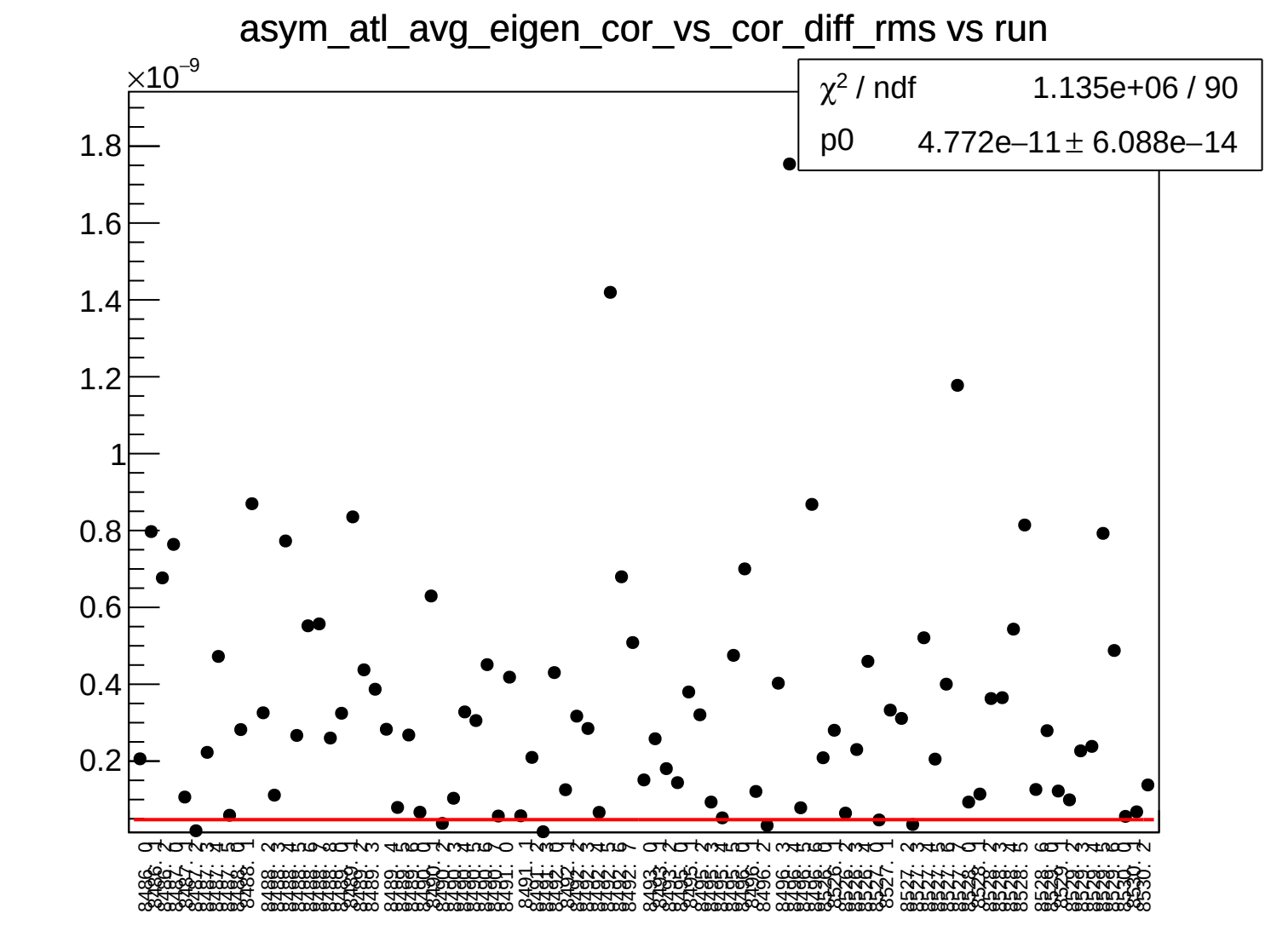

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.208e+05 / 90
p0 398.7 ± 0.3225
1000
900
800
700
600
500
400
300
200

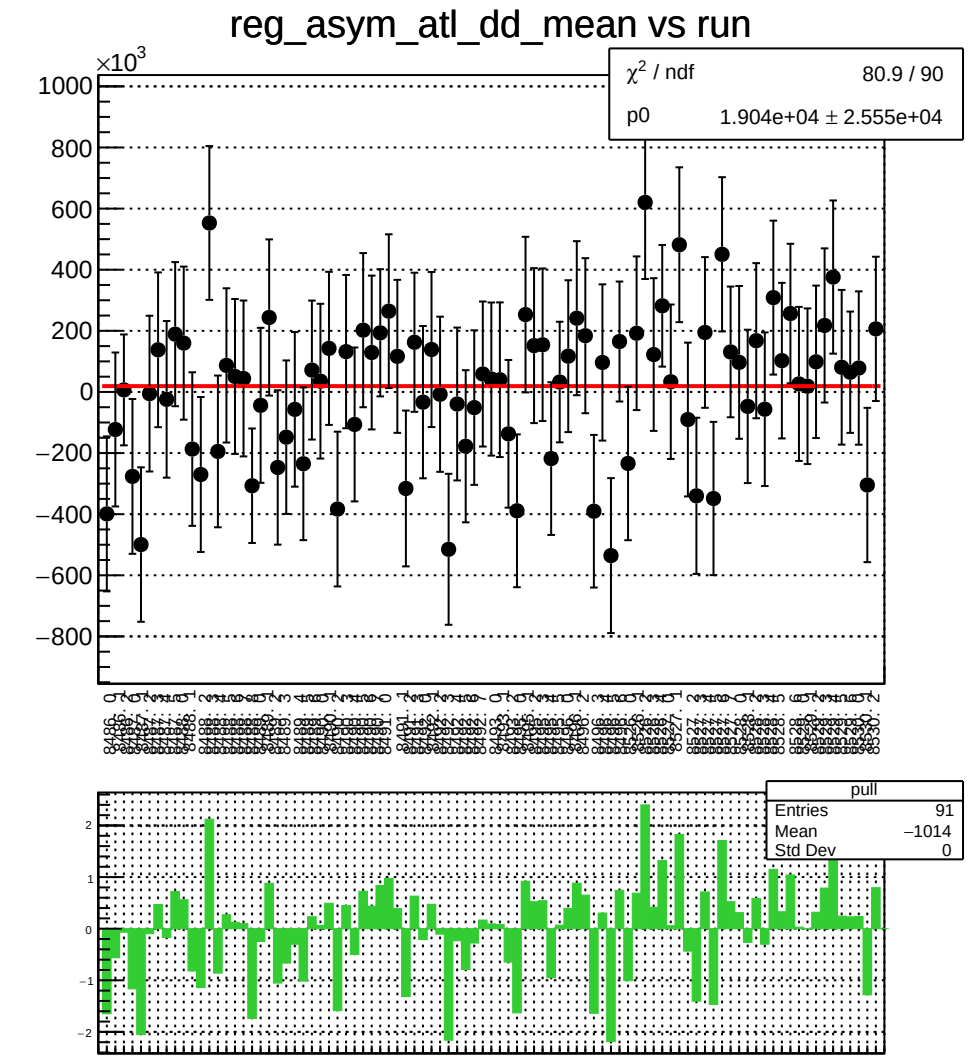

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.48 / 90
p0 0.7521 ± 0.456
pull
Entries 91
Mean 11.94
Std Dev 9.834

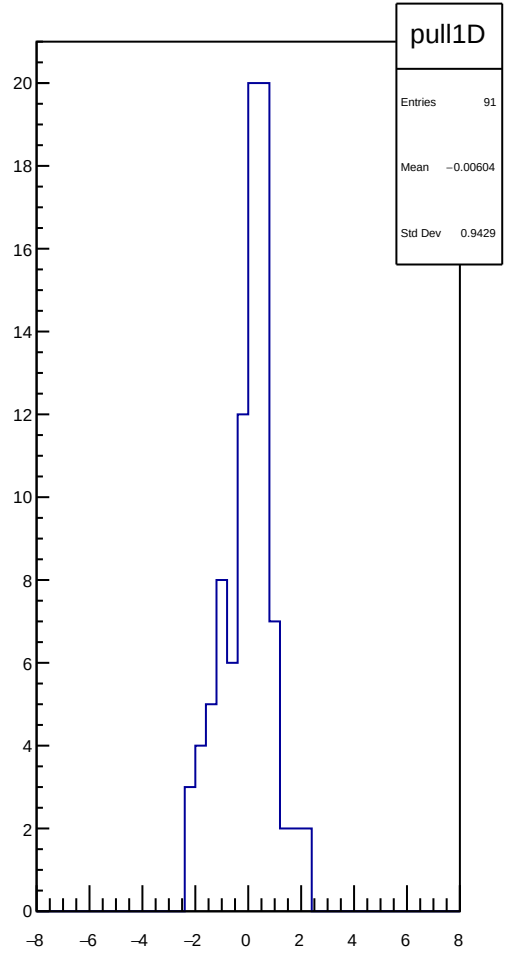

pull1D
Entries 91
Mean 0.06694
Std Dev 0.8961

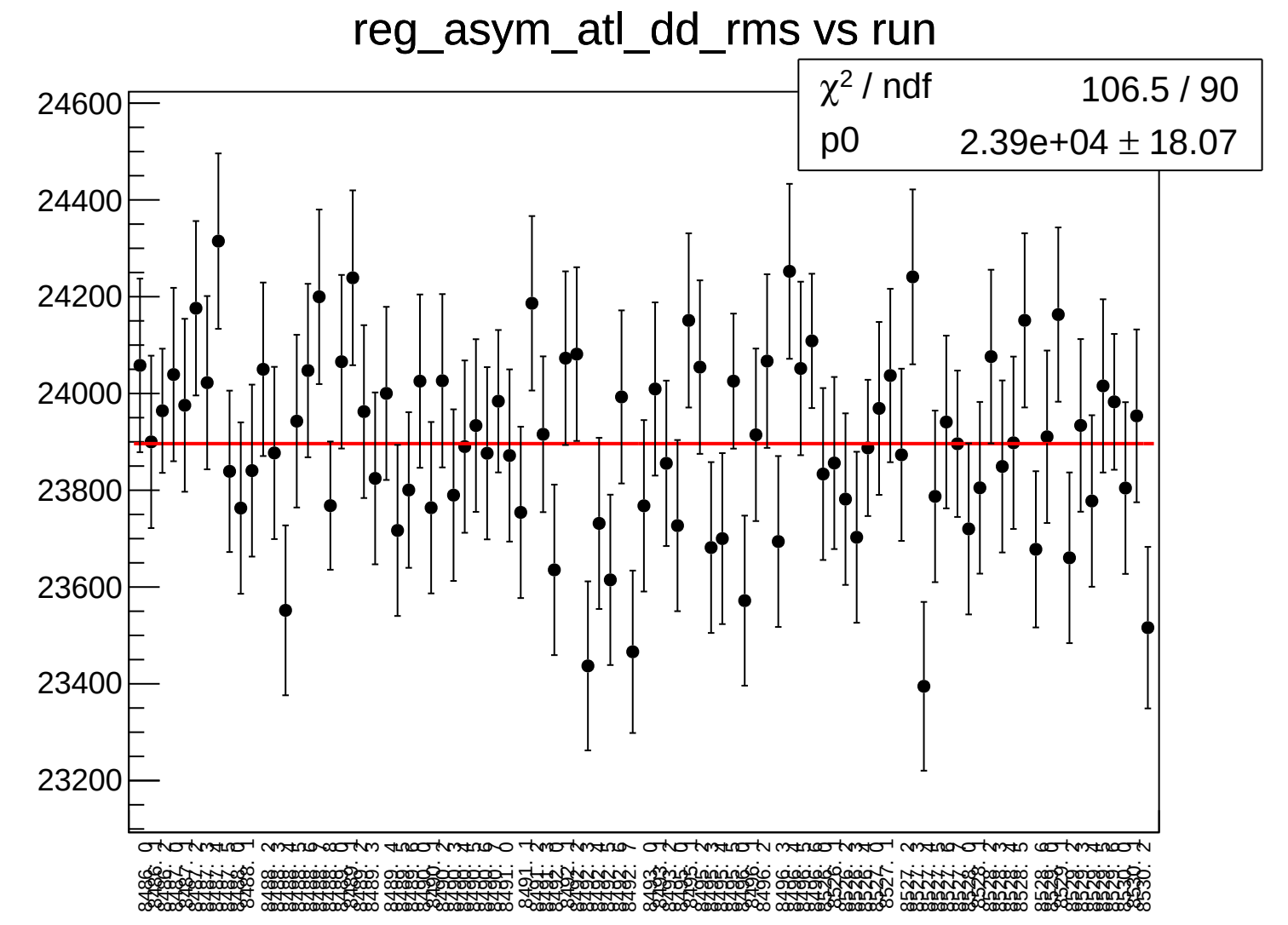

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.208e+05 / 90
p0 398.7 ± 0.3225
1000
900
800
700
600
500
400
300
200

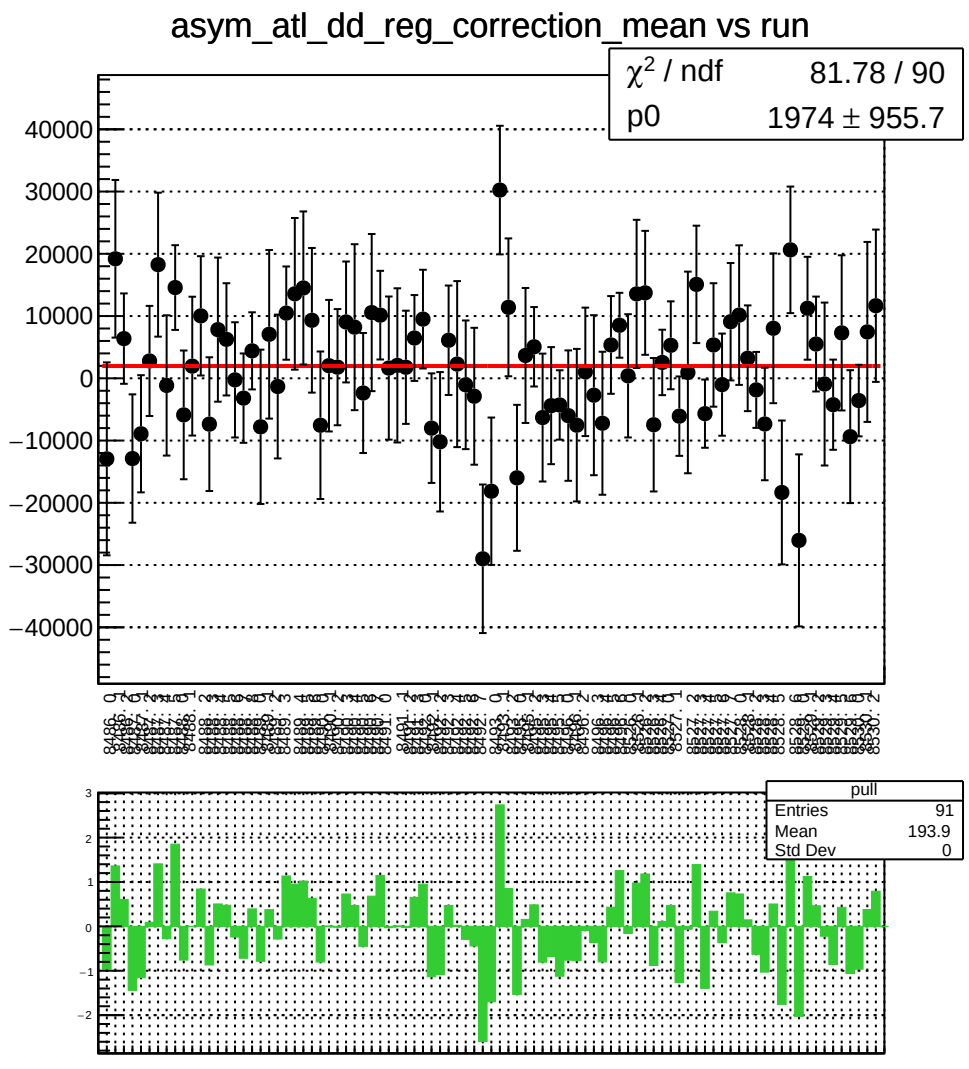

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.58 / 90
p0 7.962e−15 ± 8.609e−14
pull
Entries 91
Mean 28.33
Std Dev 28.61
pull1D
Entries 91
Mean −0.1725
Std Dev 1.021

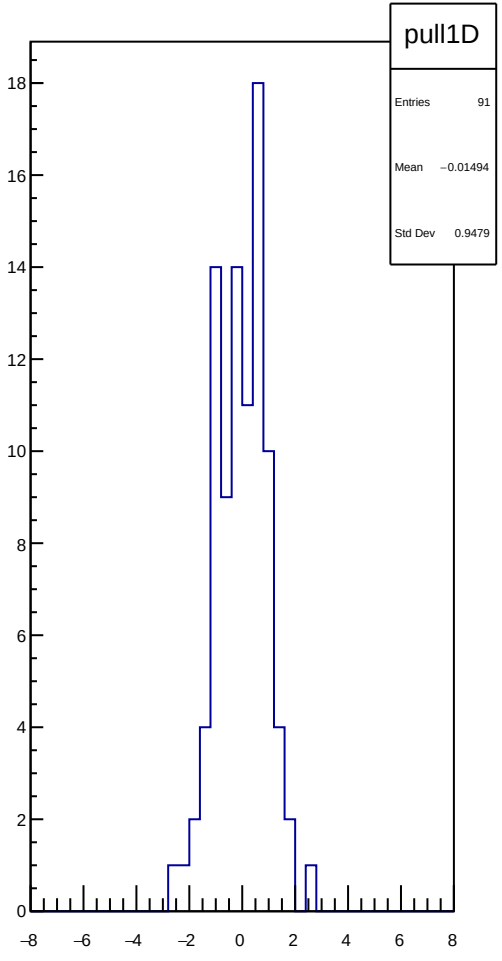

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.135e+06 / 90
p0 4.772e−11 ± 6.088e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

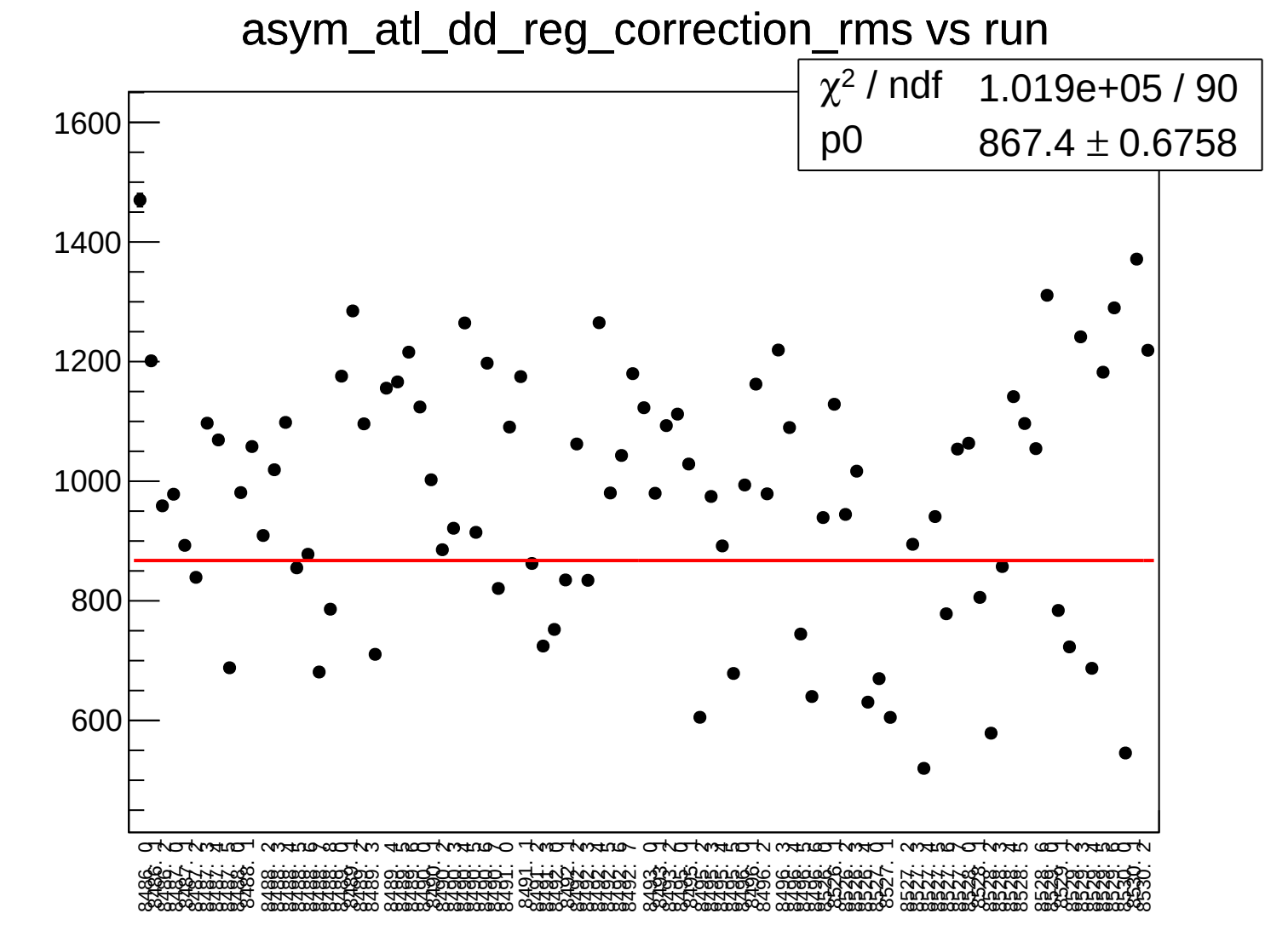

reg_asym_atl_dd_mean vs run
×10^3
χ² / ndf 80.9 / 90
p0 1.904e+04 ± 2.555e+04
pull
Entries 91
Mean −1014
Std Dev 0

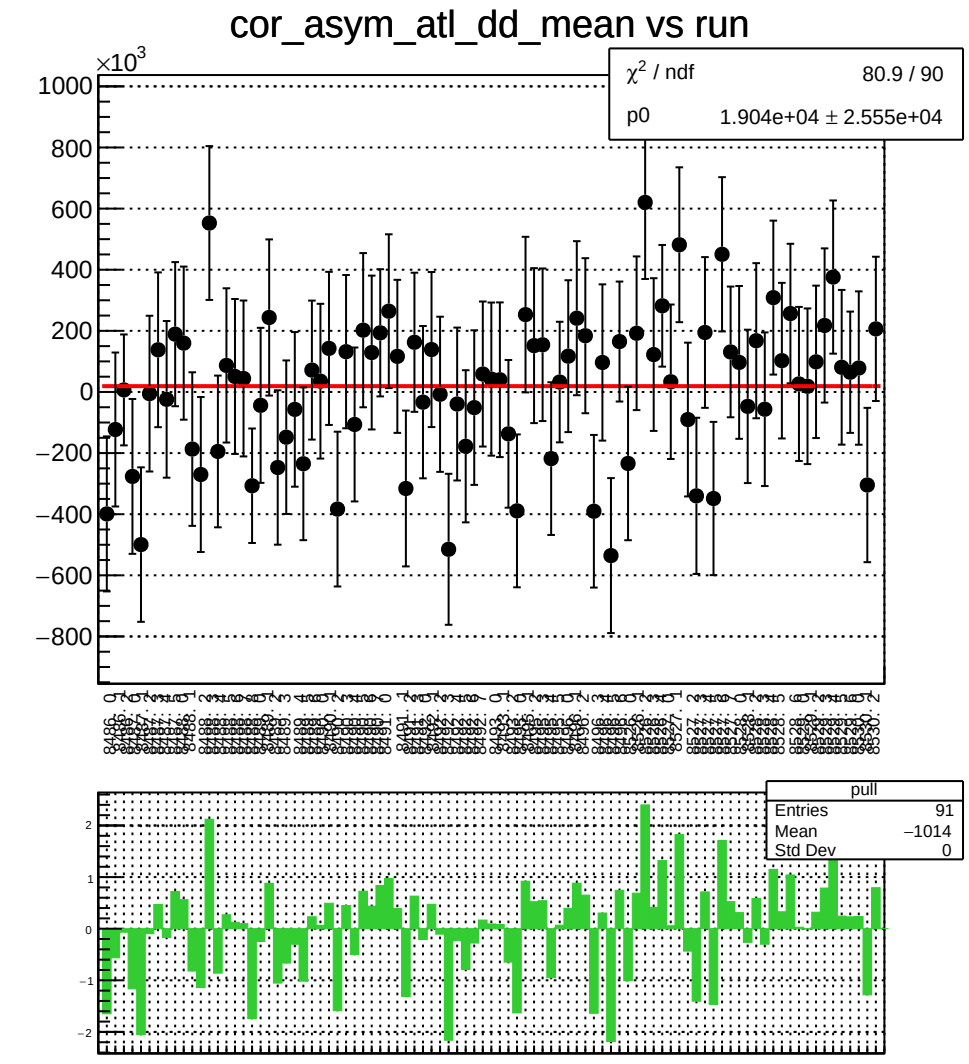

pull1D
Entries 91
Mean −0.00604
Std Dev 0.9429

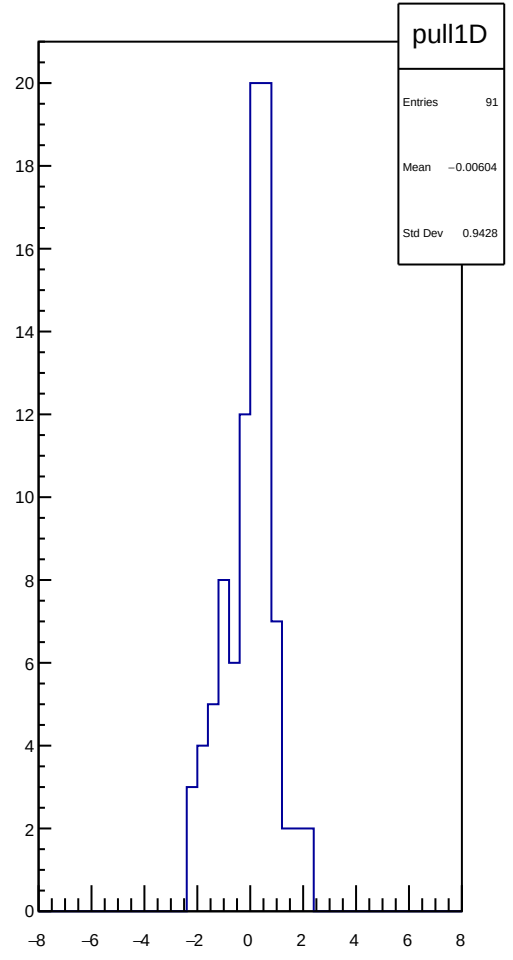

reg_asym_atl_dd_rms vs run
χ^2 / ndf 106.5 / 90
p0 2.39e+04 ± 18.07
24600
24400
24200
24000
23800
23600
23400
23200

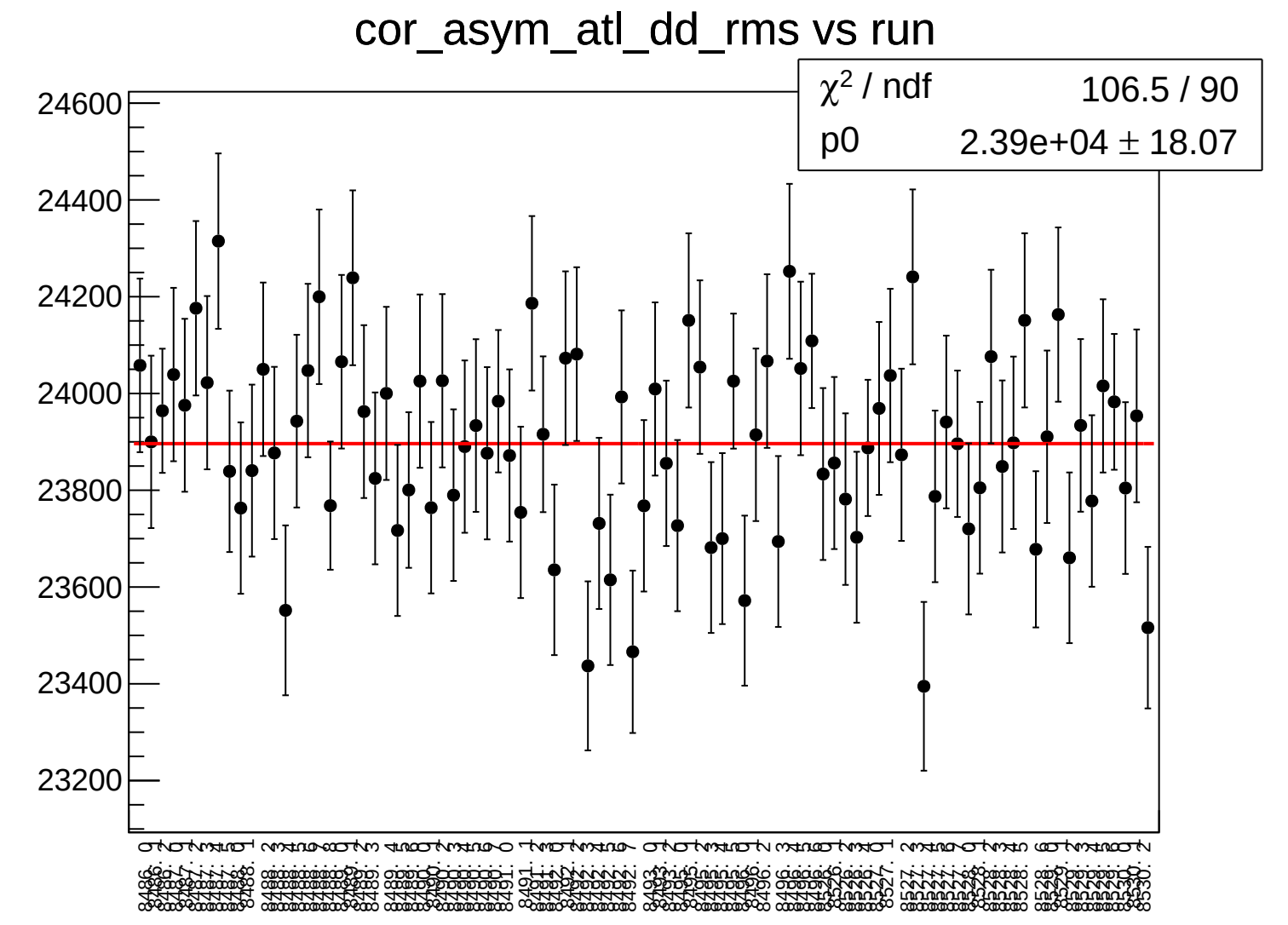

asym_atl_dd_reg_correction_mean vs run
χ^2 / ndf 81.78 / 90
p0 1974 ± 955.7
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean 193.9
Std Dev 0
3
2
1
0
−1
−2

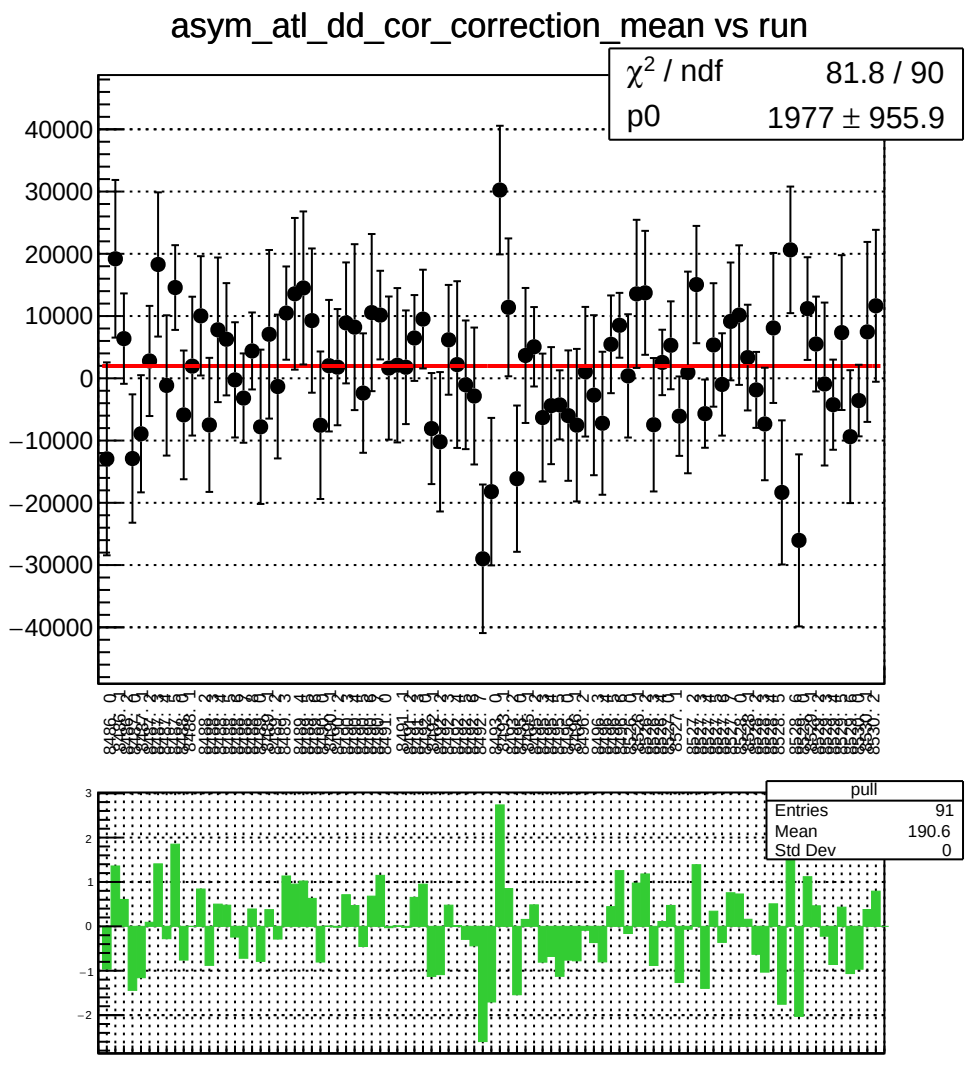

pull1D
Entries 91
Mean −0.01494
Std Dev 0.9479
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

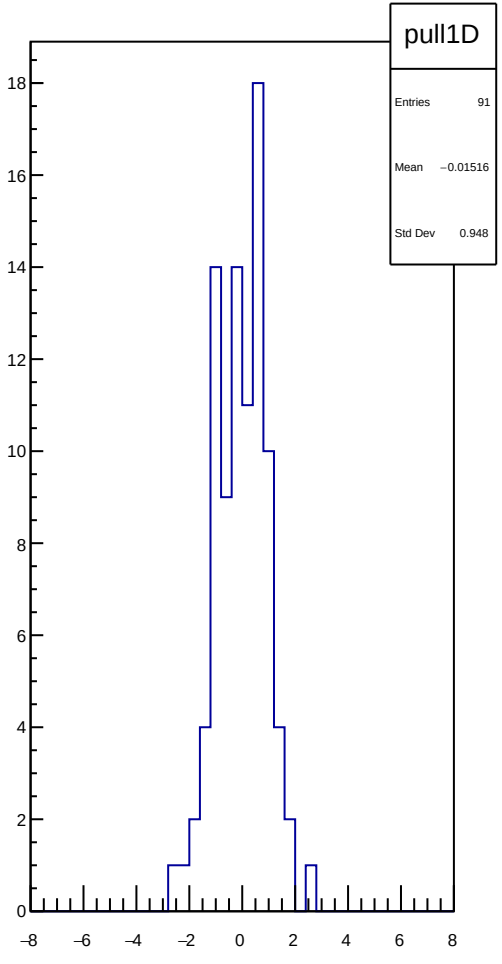

asym_atl_dd_reg_correction_rms vs run
χ^2 / ndf 1.019e+05 / 90
p0 867.4 ± 0.6758
1600
1400
1200
1000
800
600

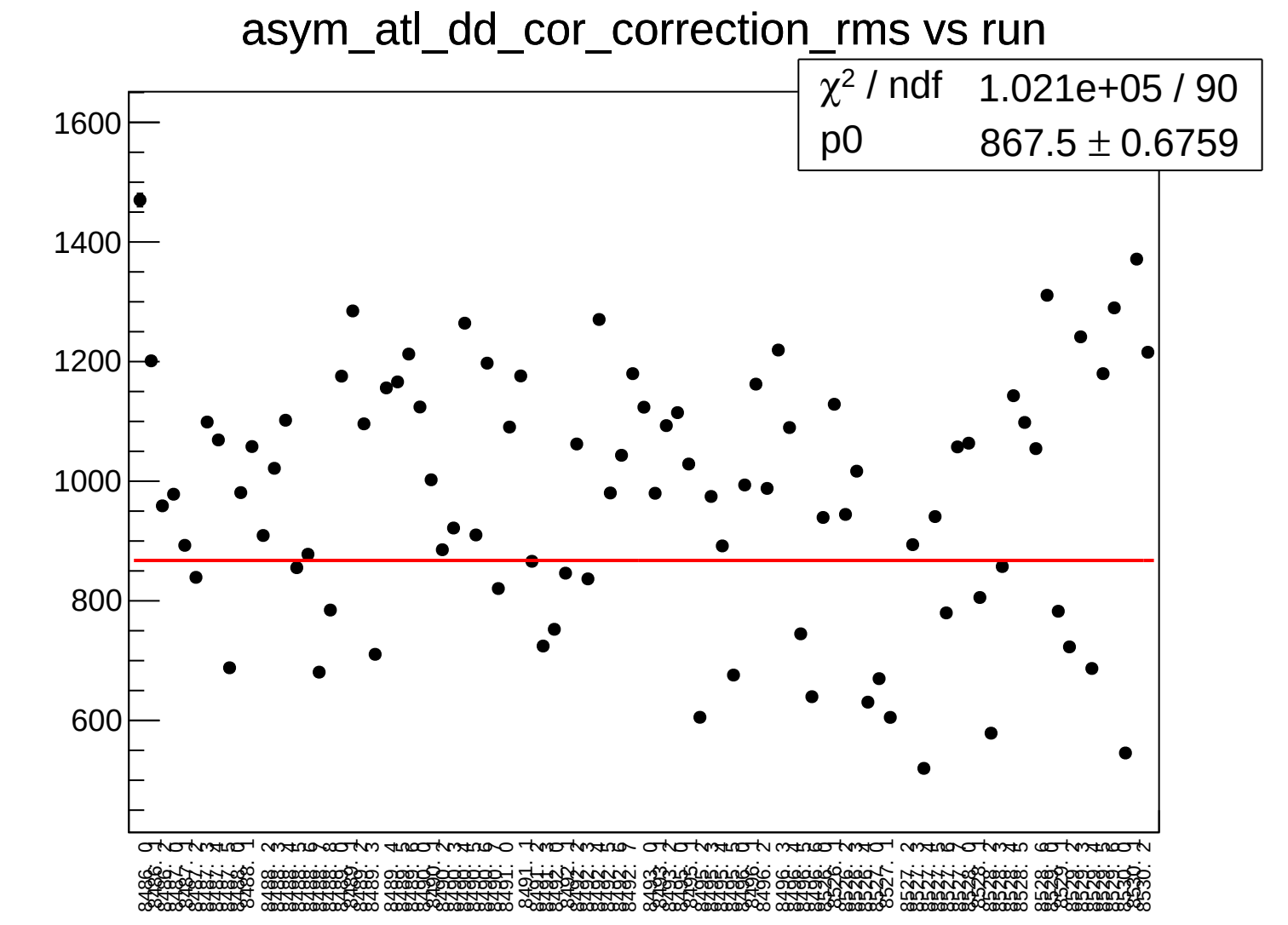

cor_asym_atl_dd_mean vs run
×10^3
χ² / ndf 80.9 / 90
p0 1.904e+04 ± 2.555e+04
pull
Entries 91
Mean −1014
Std Dev 0

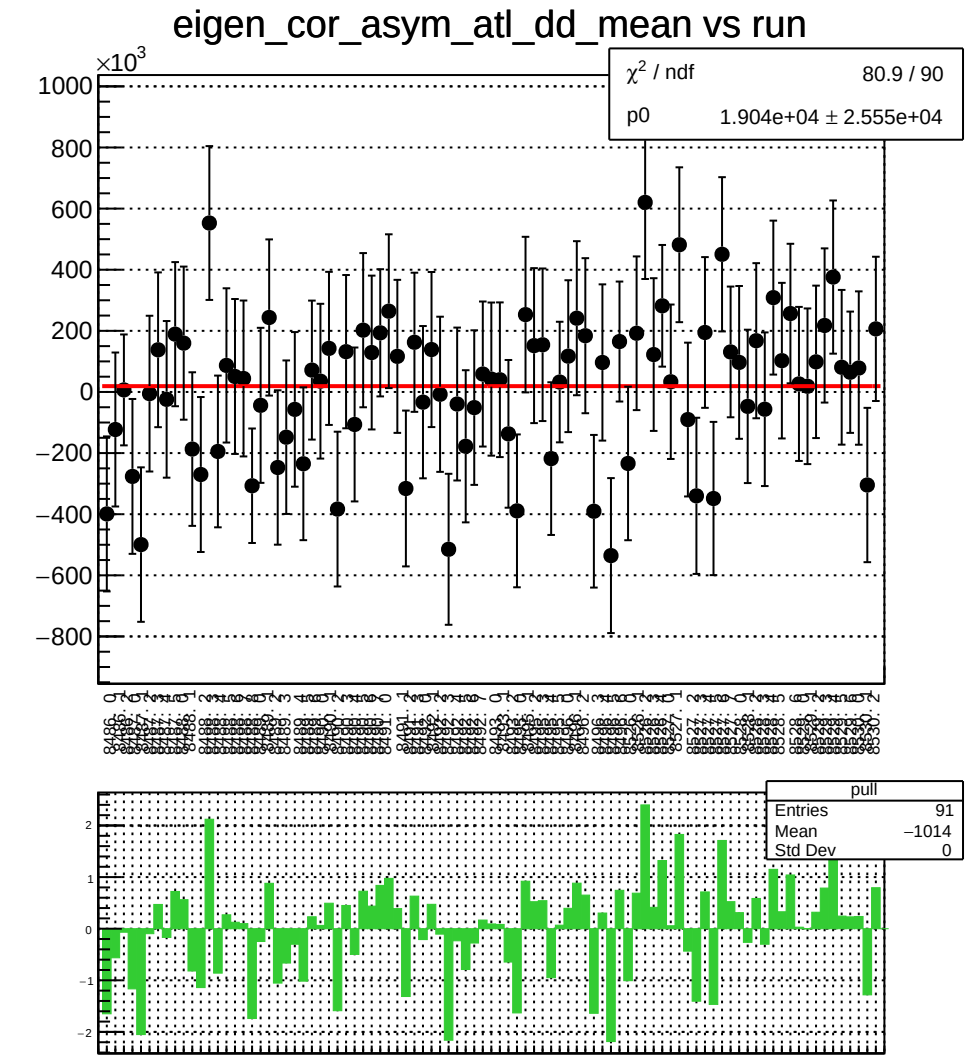

pull1D
Entries 91
Mean −0.00604
Std Dev 0.9428

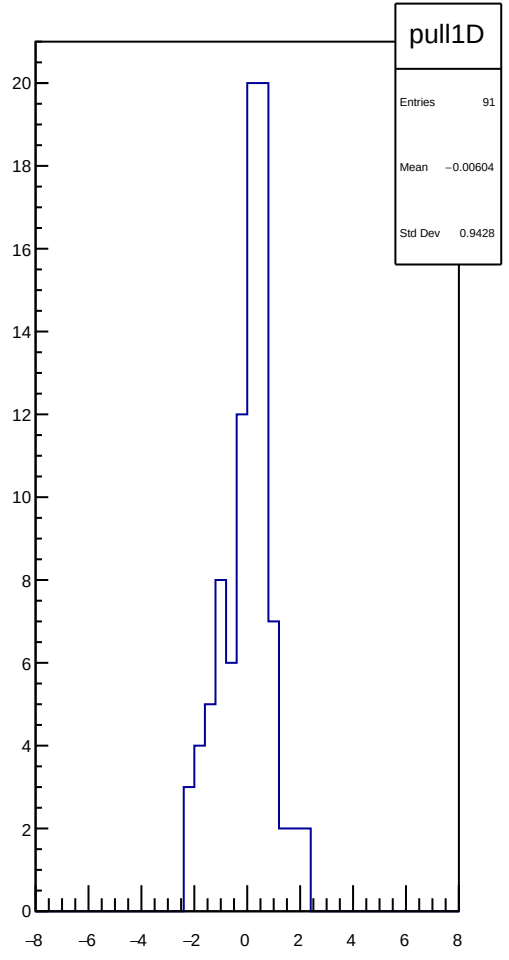

cor_asym_atl_dd_rms vs run
χ^2 / ndf 106.5 / 90
p0 2.39e+04 ± 18.07
24600
24400
24200
24000
23800
23600
23400
23200

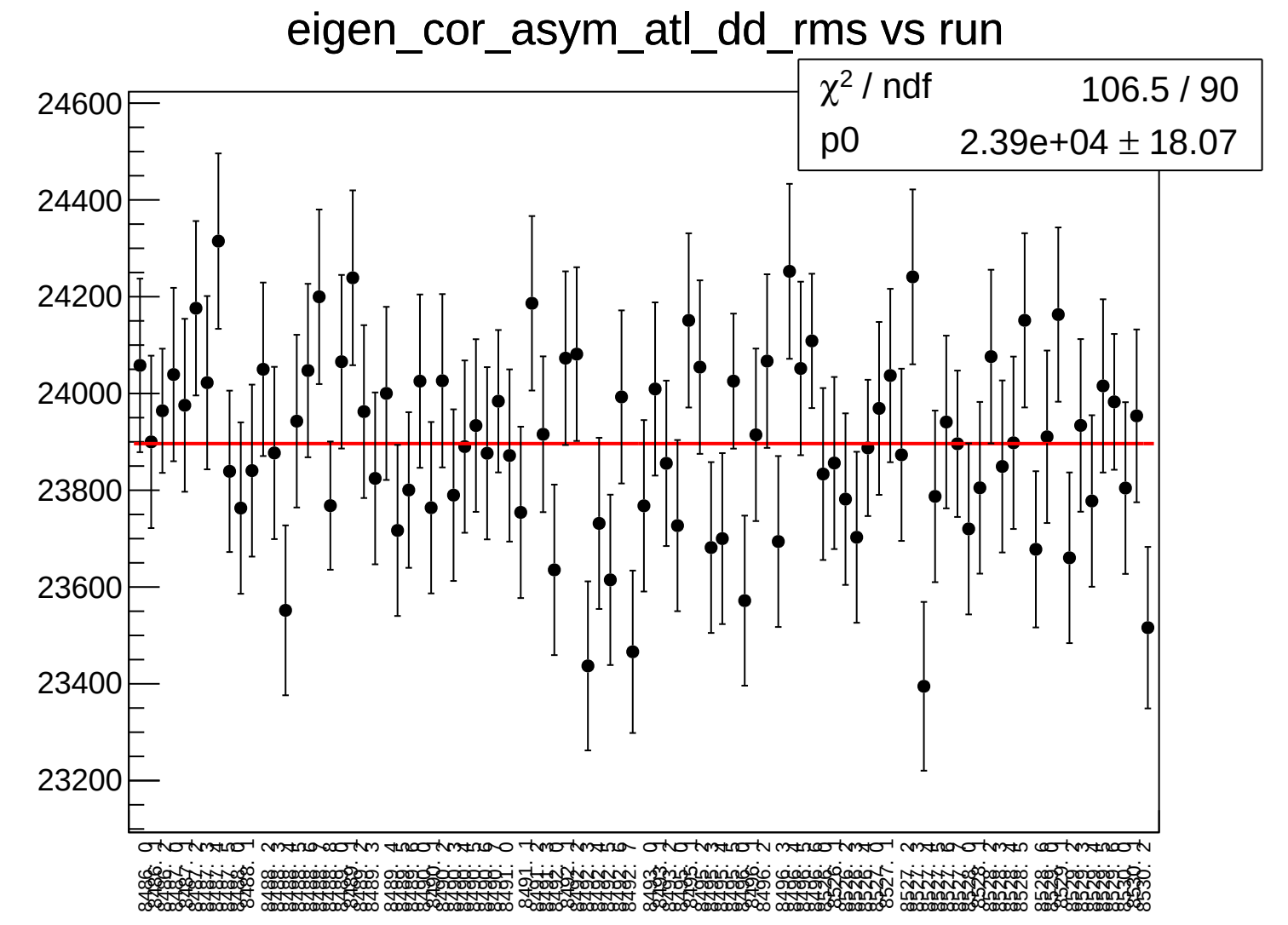

asym_atl_dd_cor_correction_mean vs run
χ² / ndf 81.8 / 90
p0 1977 ± 955.9
pull
Entries 91
Mean 190.6
Std Dev 0

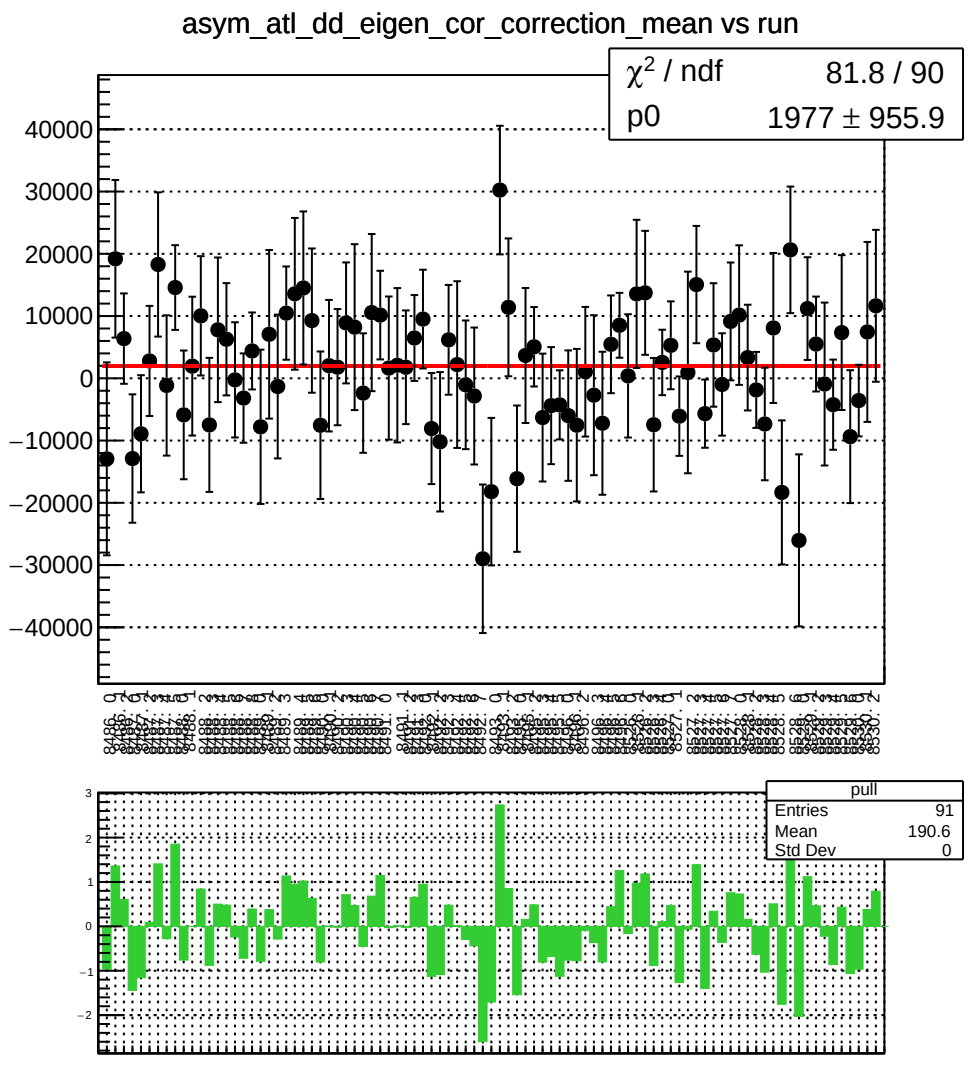

pull1D
Entries 91
Mean −0.01516
Std Dev 0.948

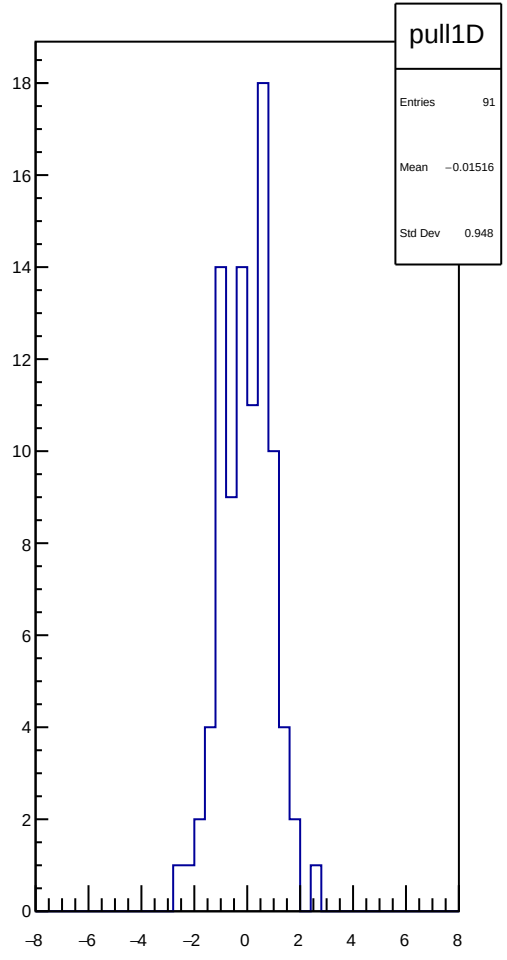

asym_atl_dd_cor_correction_rms vs run
χ² / ndf 1.021e+05 / 90
p0 867.5 ± 0.6759
1600
1400
1200
1000
800
600

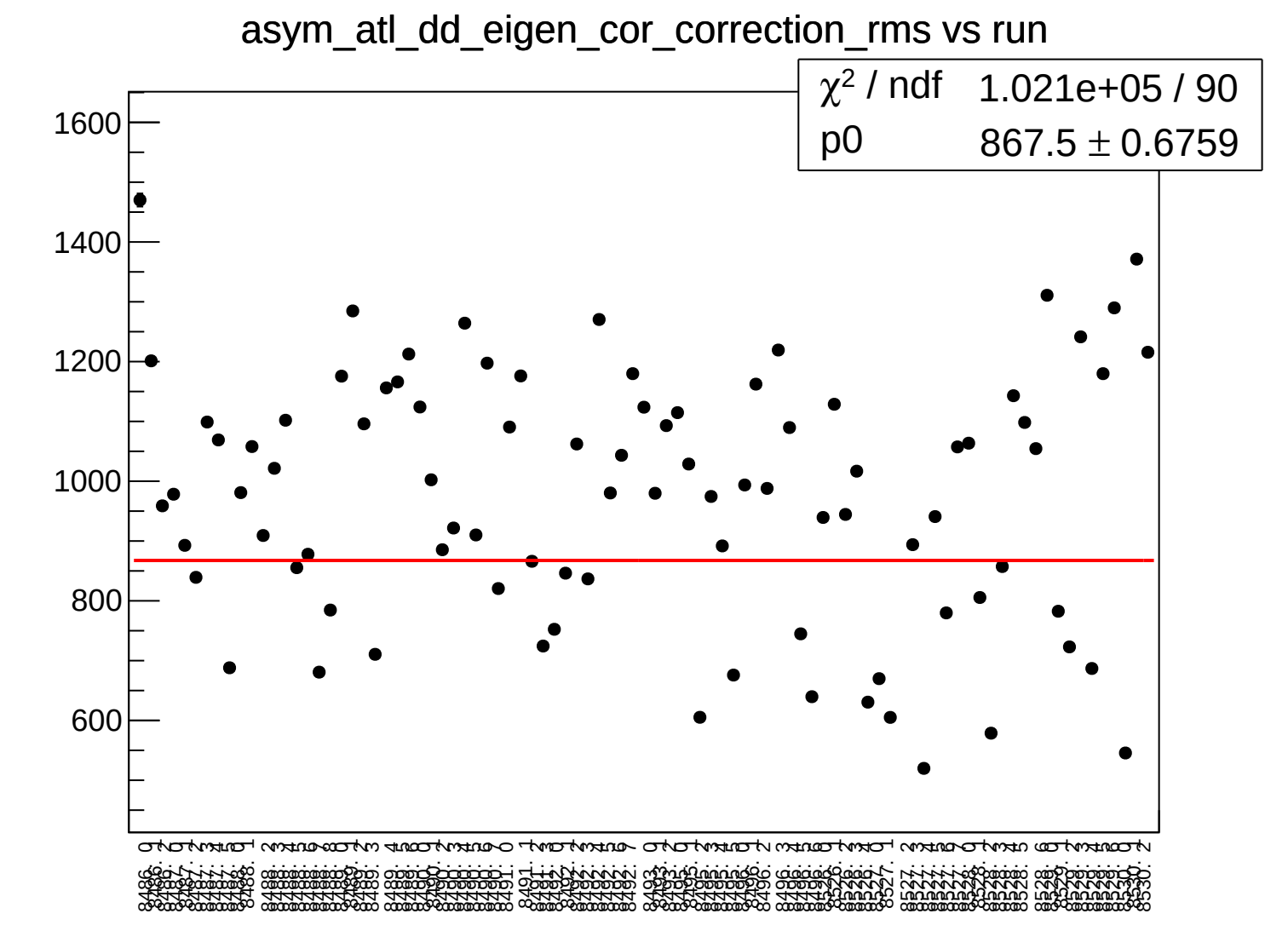

eigen_cor_asym_atl_dd_mean vs run
×10^3
χ² / ndf 80.9 / 90
p0 1.904e+04 ± 2.555e+04
pull
Entries 91
Mean −1014
Std Dev 0

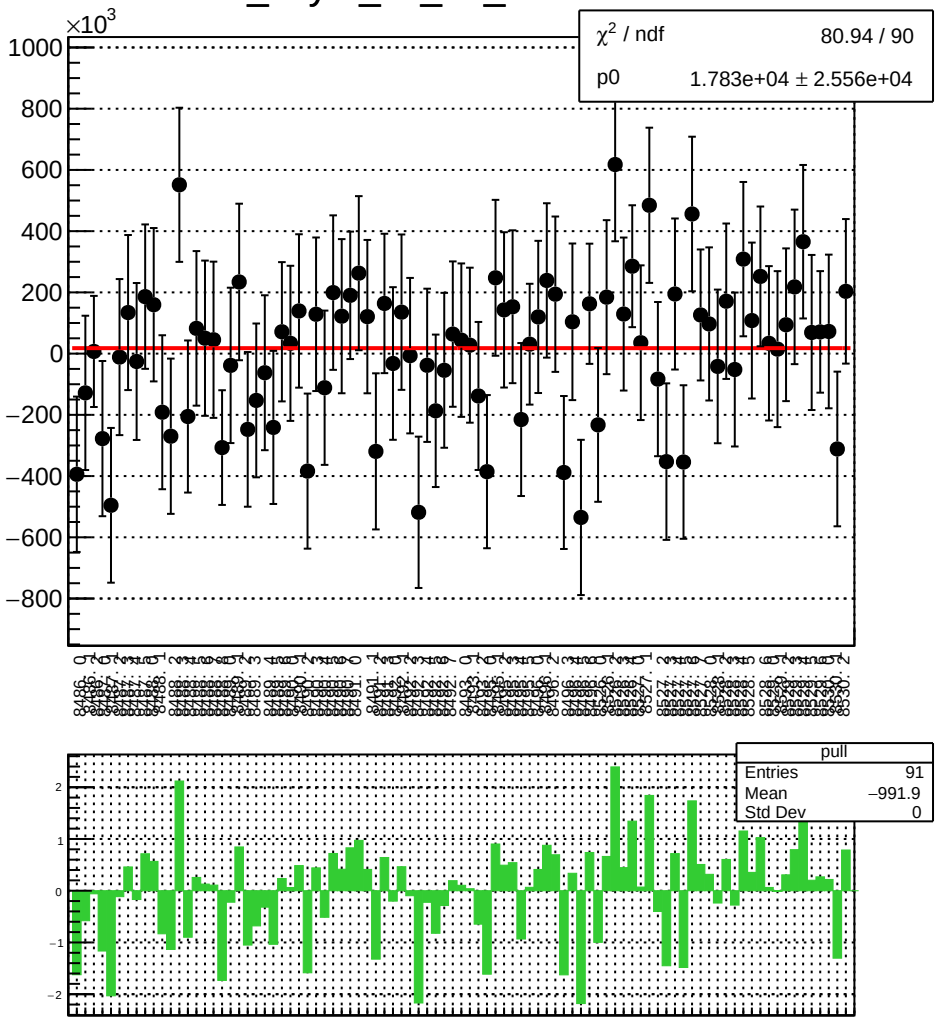

pull1D
Entries 91
Mean −0.00604
Std Dev 0.9428

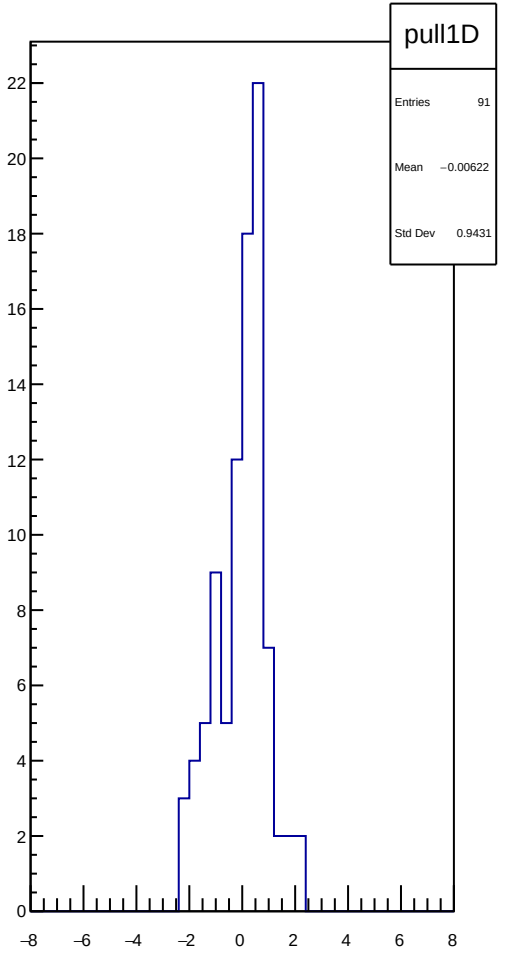

eigen_cor_asym_atl_dd_rms vs run
χ² / ndf 106.5 / 90
p0 2.39e+04 ± 18.07
24600
24400
24200
24000
23800
23600
23400
23200

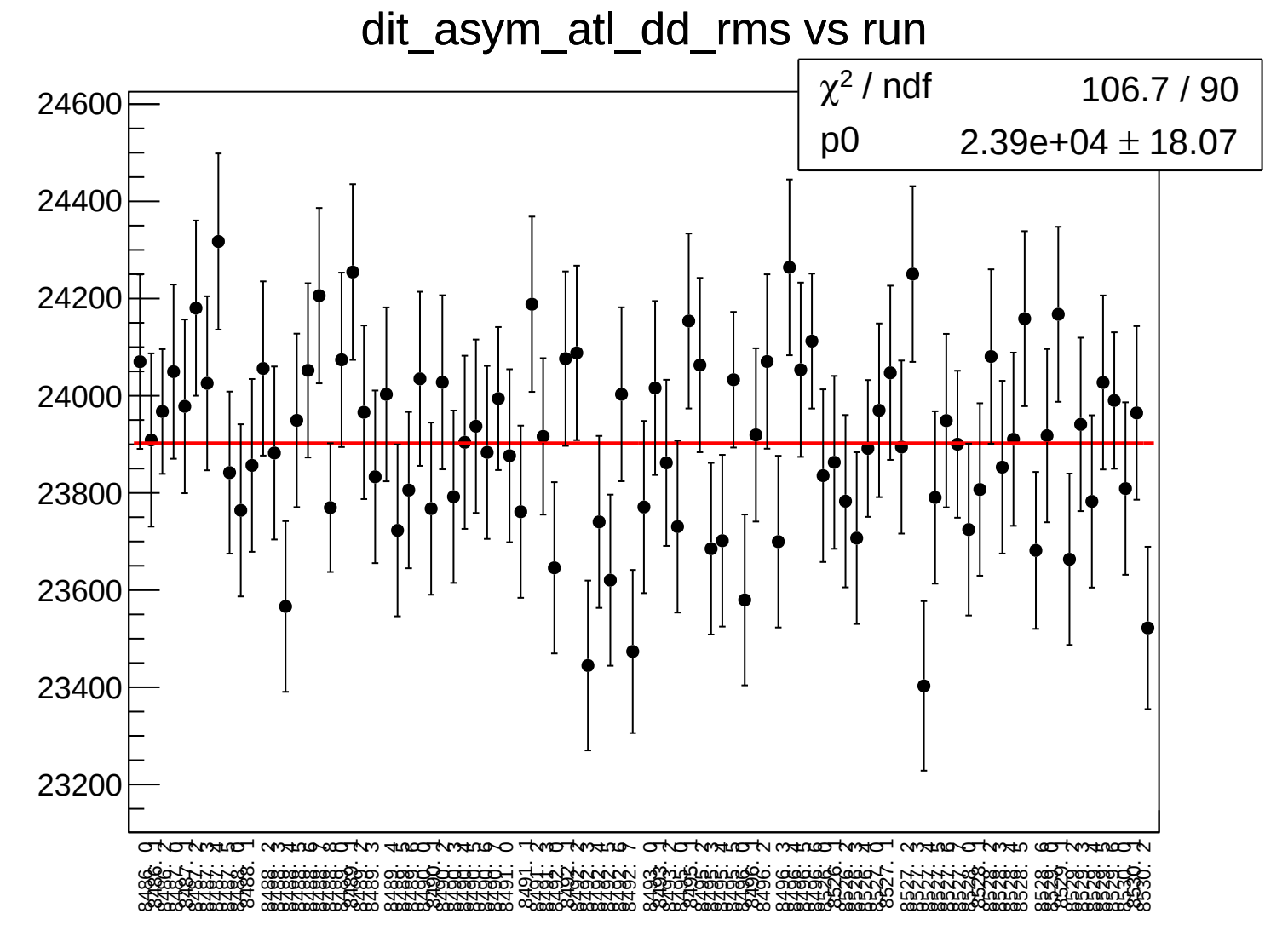

asym_atl_dd_eigen_cor_correction_mean vs run
χ² / ndf 81.8 / 90
p0 1977 ± 955.9
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean 190.6
Std Dev 0
3
2
1
0
−1
−2

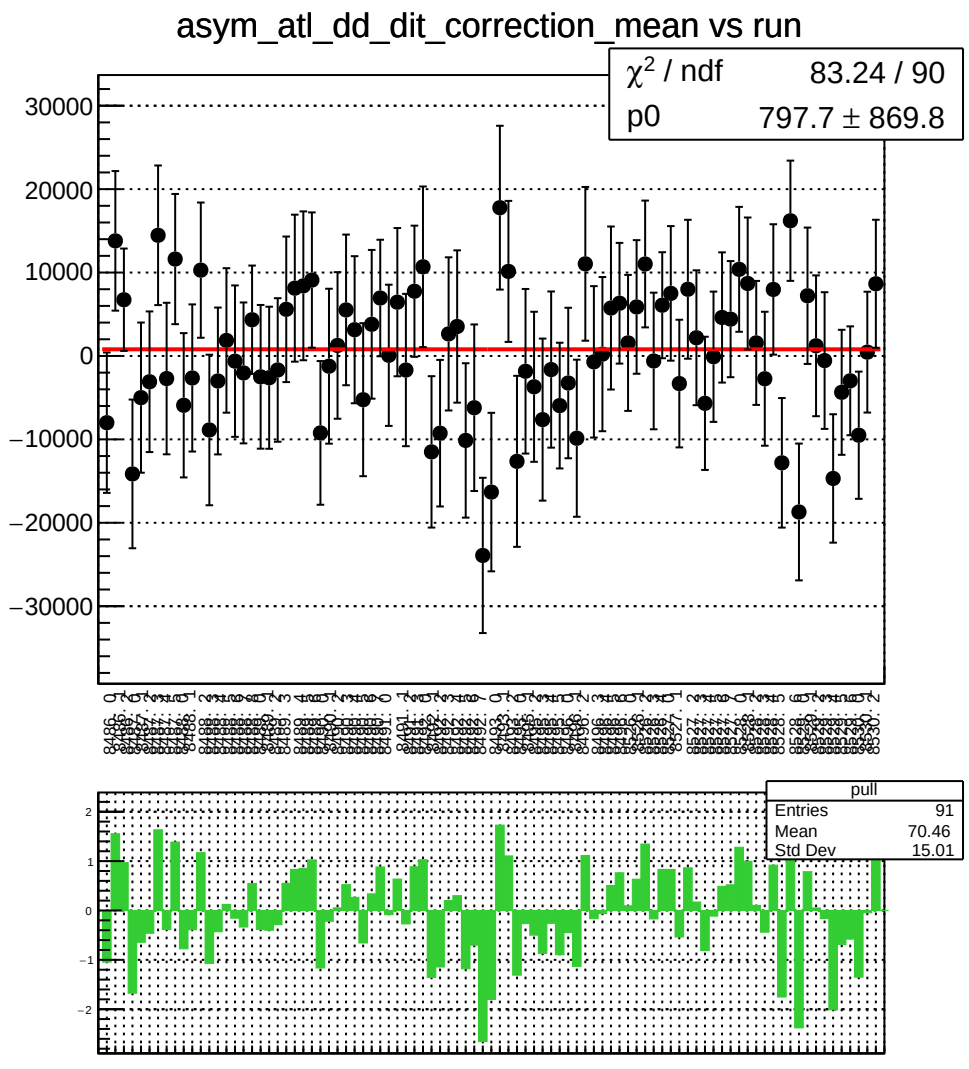

pull1D
Entries 91
Mean −0.01516
Std Dev 0.948
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

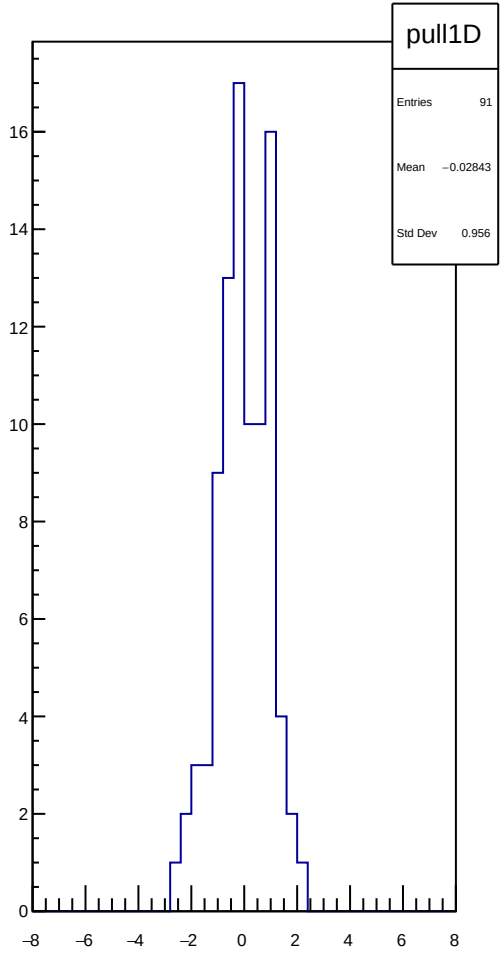

asym_atl_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.021e+05 / 90
p0 867.5 ± 0.6759
1600
1400
1200
1000
800
600

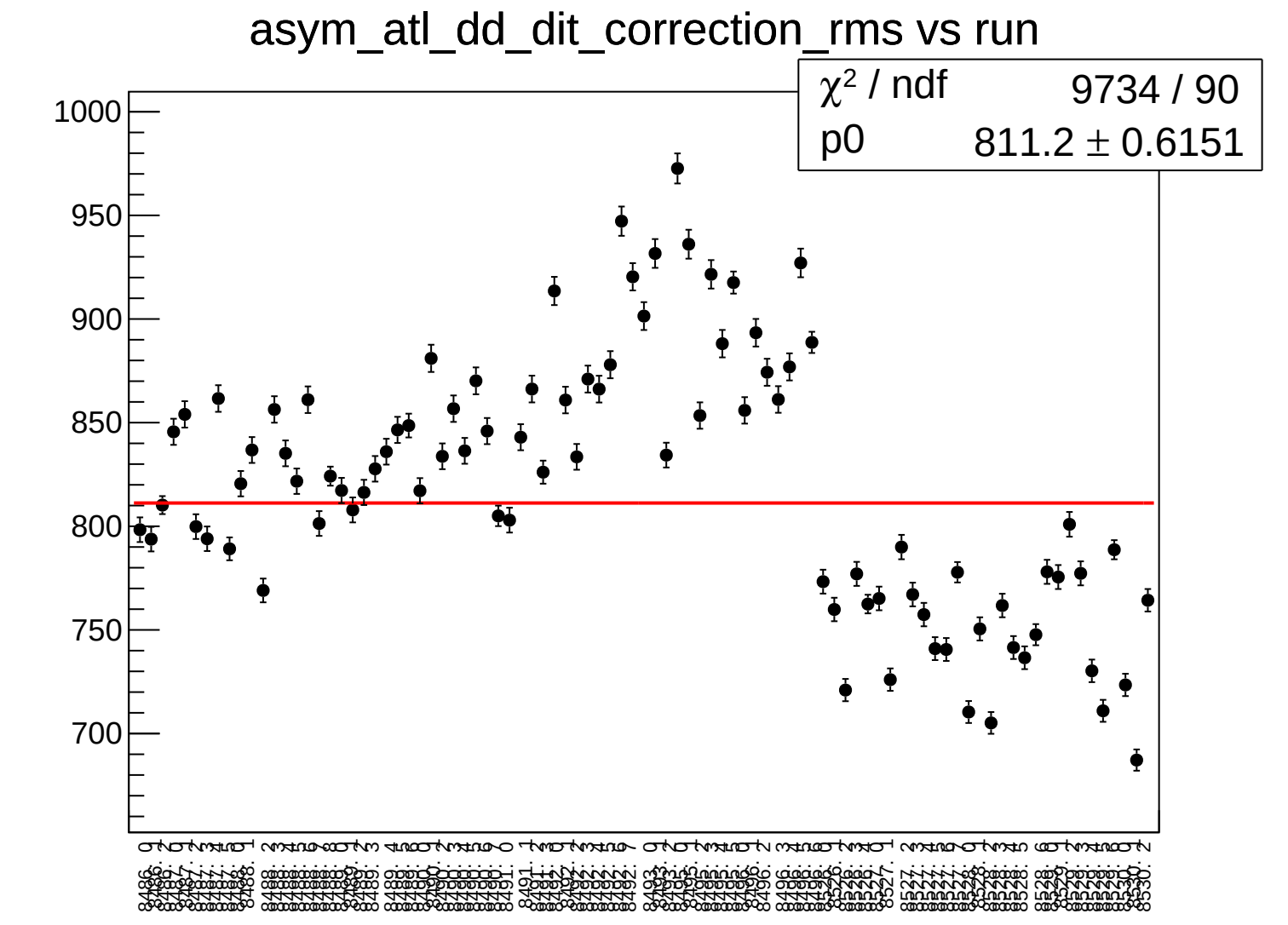

dit_asym_atl_dd_mean vs run
×10^3
χ² / ndf 80.94 / 90
p0 1.783e+04 ± 2.556e+04
pull
Entries 91
Mean −991.9
Std Dev 0

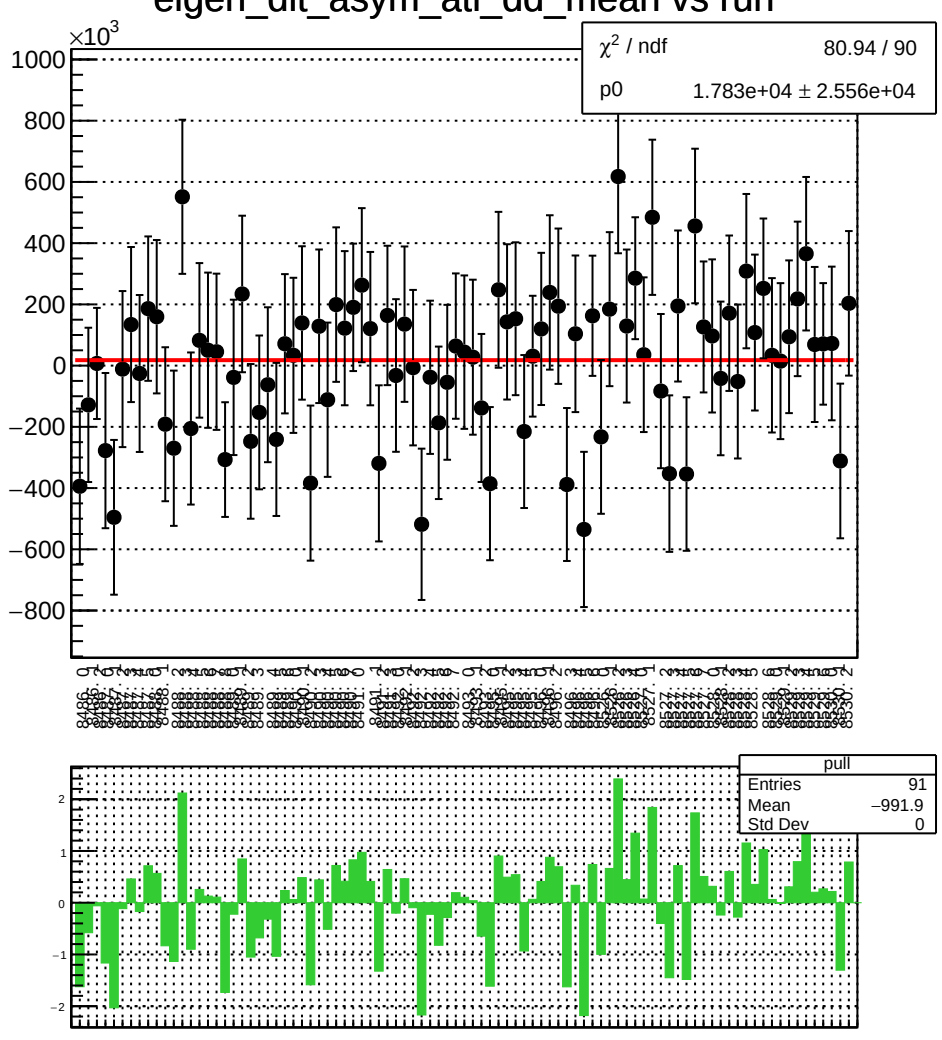

pull1D
Entries 91
Mean −0.00622
Std Dev 0.9431

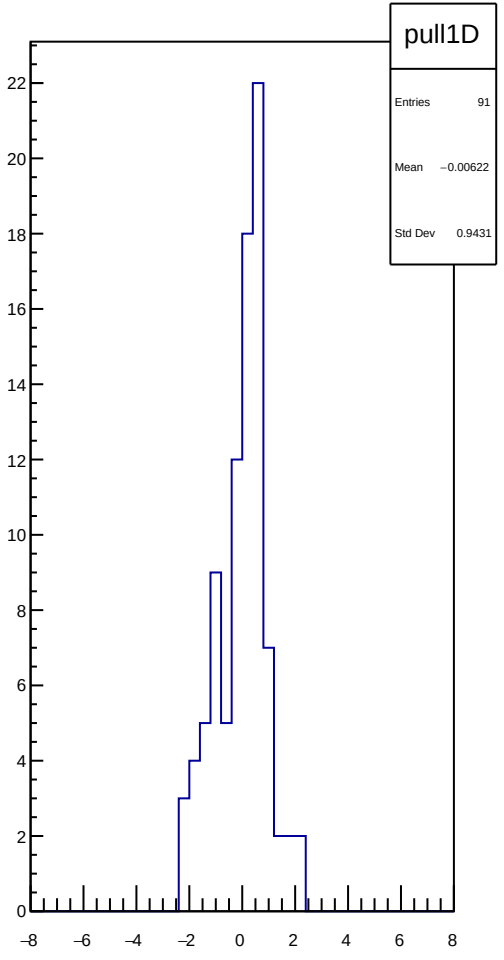

dit_asym_atl_dd_rms vs run
χ² / ndf 106.7 / 90
p0 2.39e+04 ± 18.07
24600
24400
24200
24000
23800
23600
23400
23200

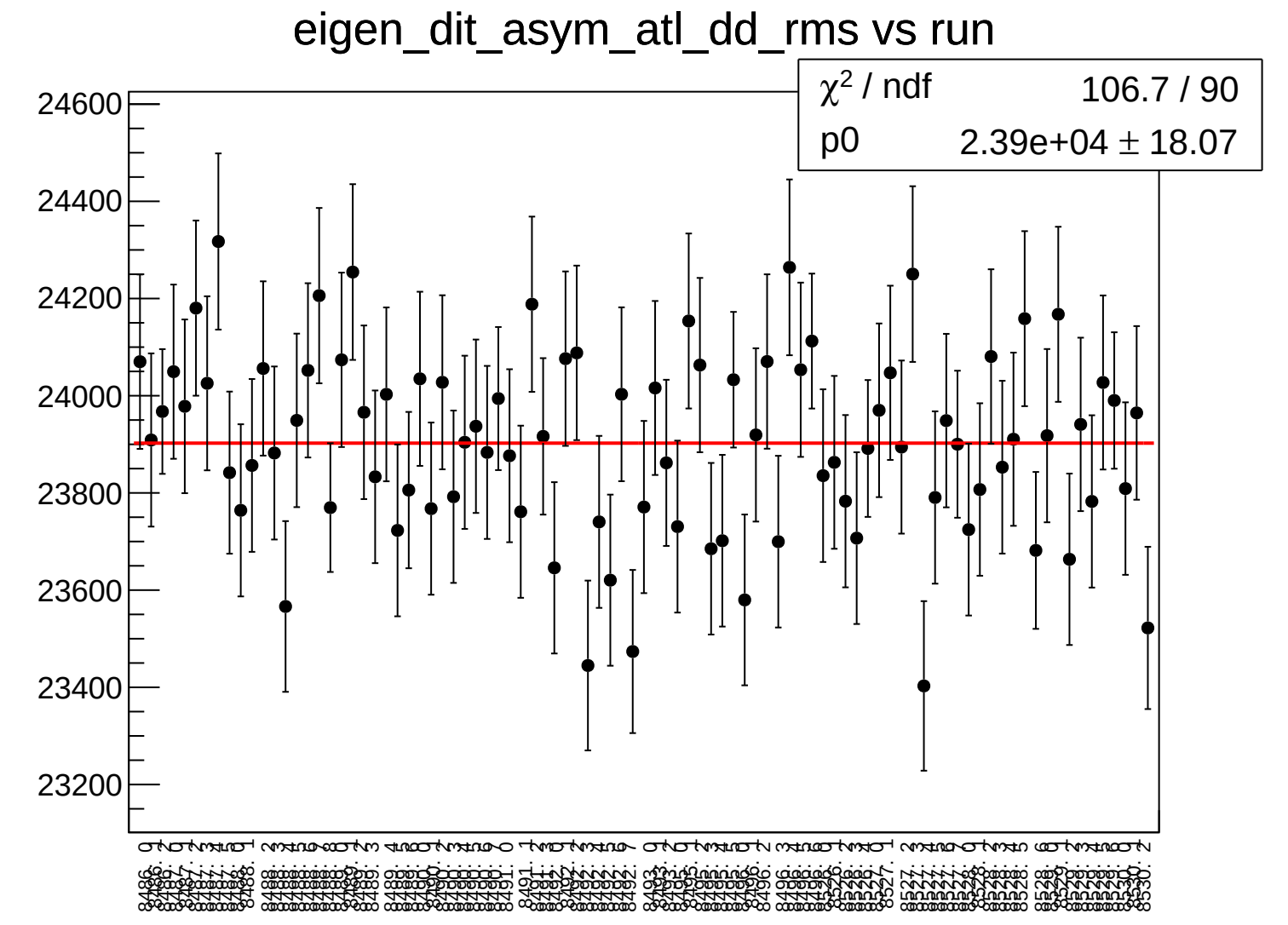

asym_atl_dd_dit_correction_mean vs run
χ² / ndf 83.24 / 90
p0 797.7 ± 869.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 70.46
Std Dev 15.01
2
1
0
−1
−2

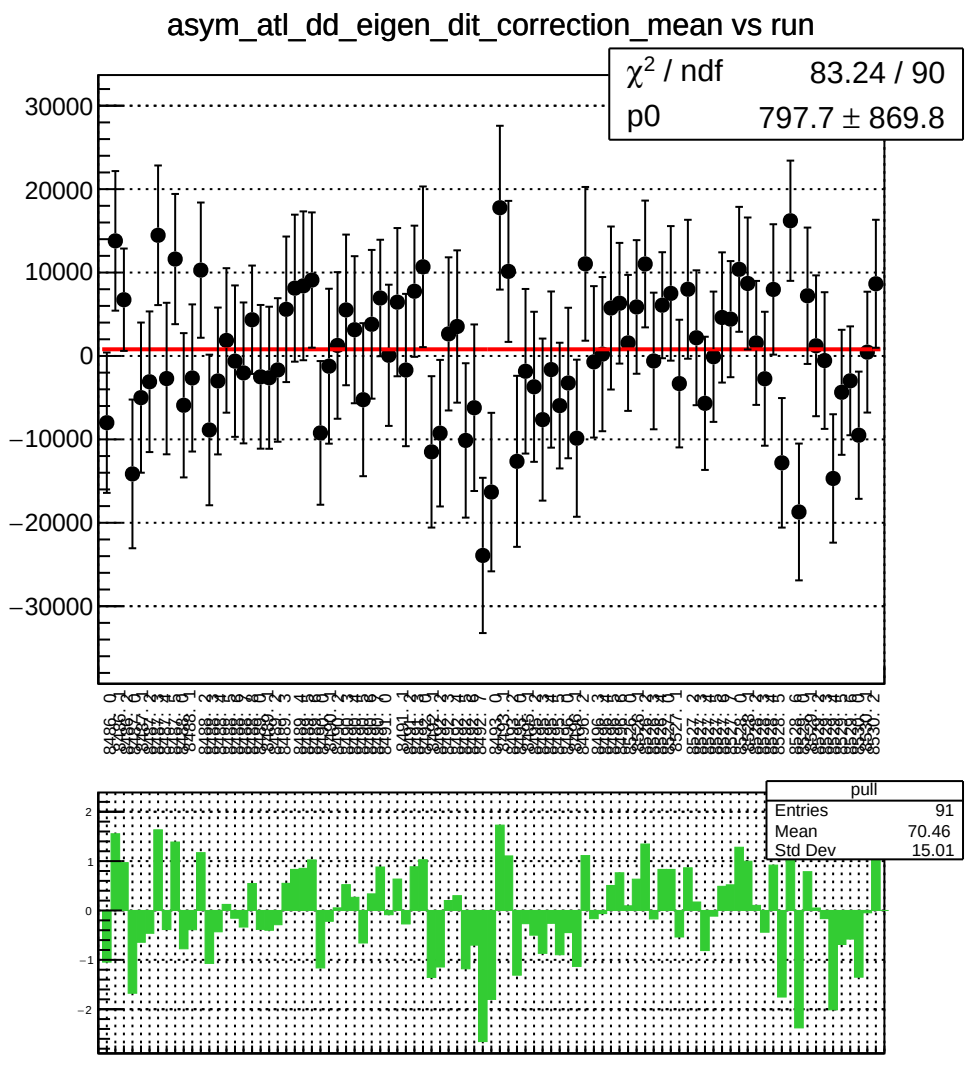

pull1D
Entries 91
Mean −0.02843
Std Dev 0.956
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

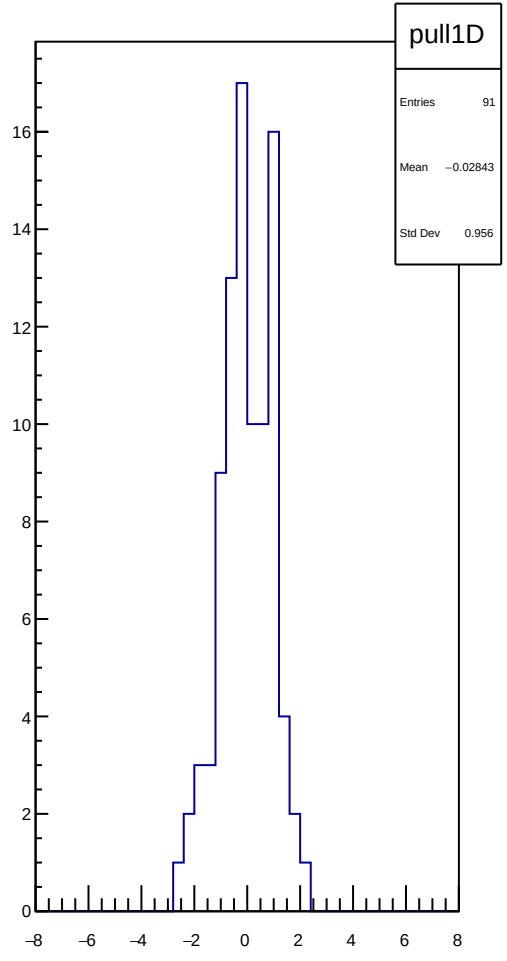

asym_atl_dd_dit_correction_rms vs run
χ² / ndf 9734 / 90
p0 811.2 ± 0.6151
1000
950
900
850
800
750
700

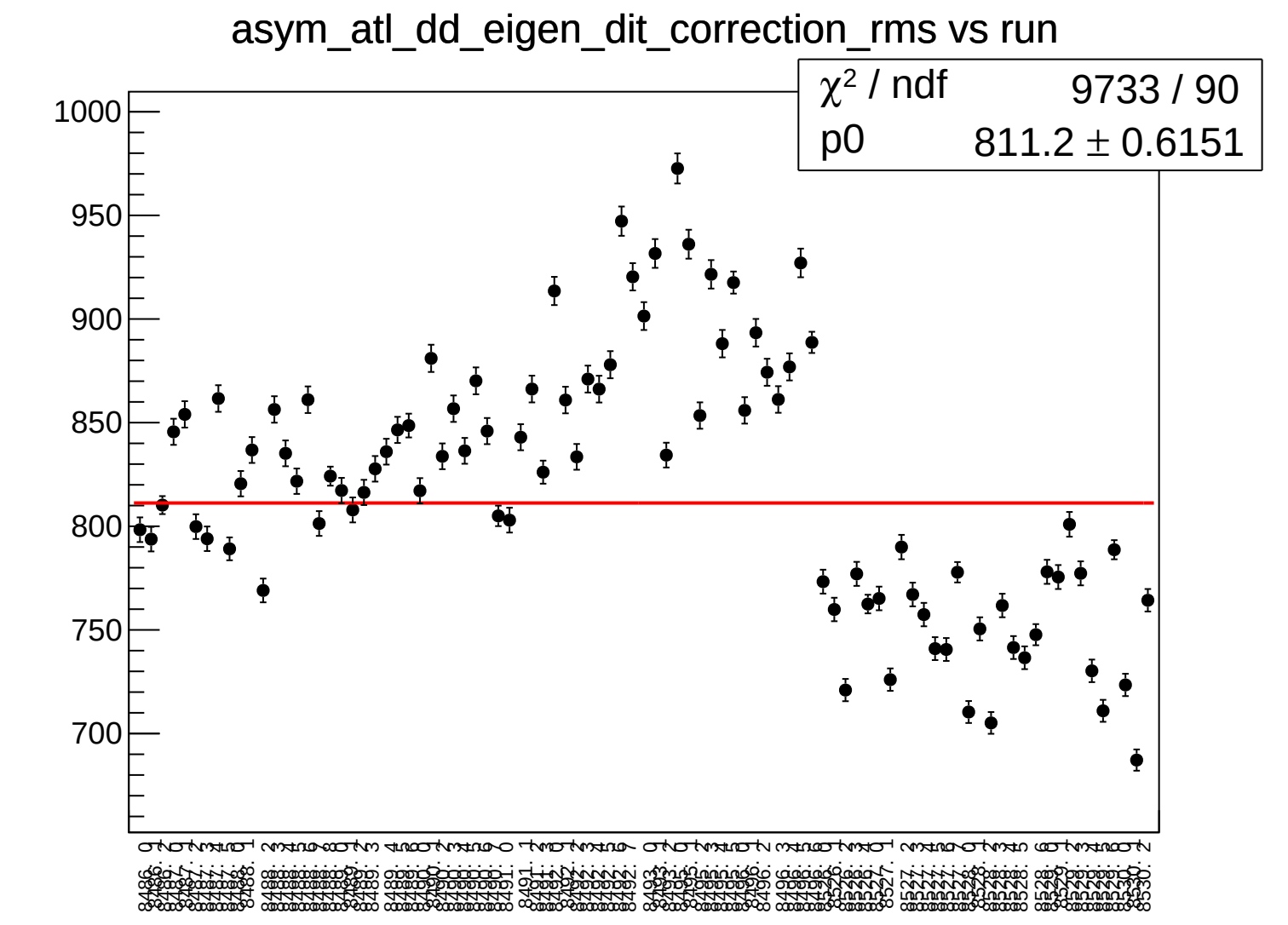

eigen_dit_asym_atl_dd_mean vs run
×10^3
χ² / ndf 80.94 / 90
p0 1.783e+04 ± 2.556e+04
pull
Entries 91
Mean −991.9
Std Dev 0

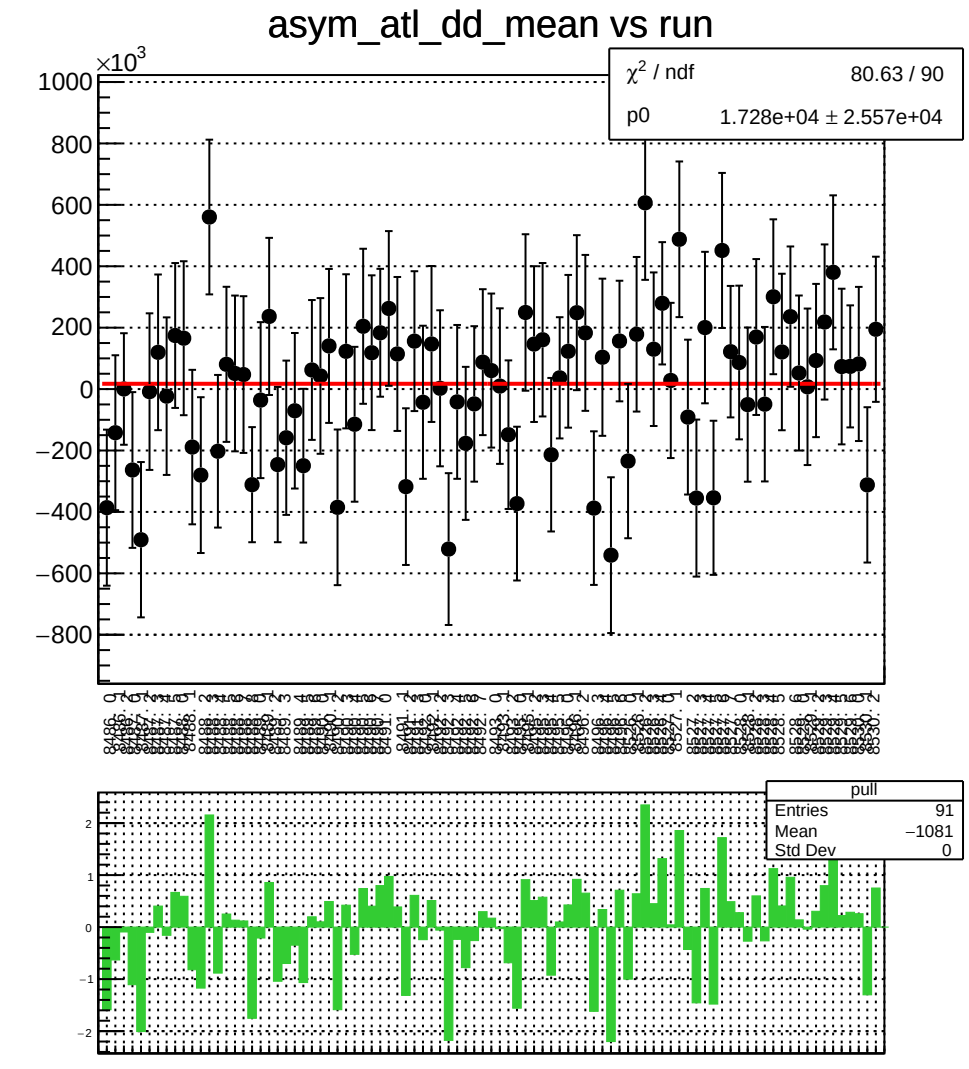

pull1D
Entries 91
Mean −0.00622
Std Dev 0.9431

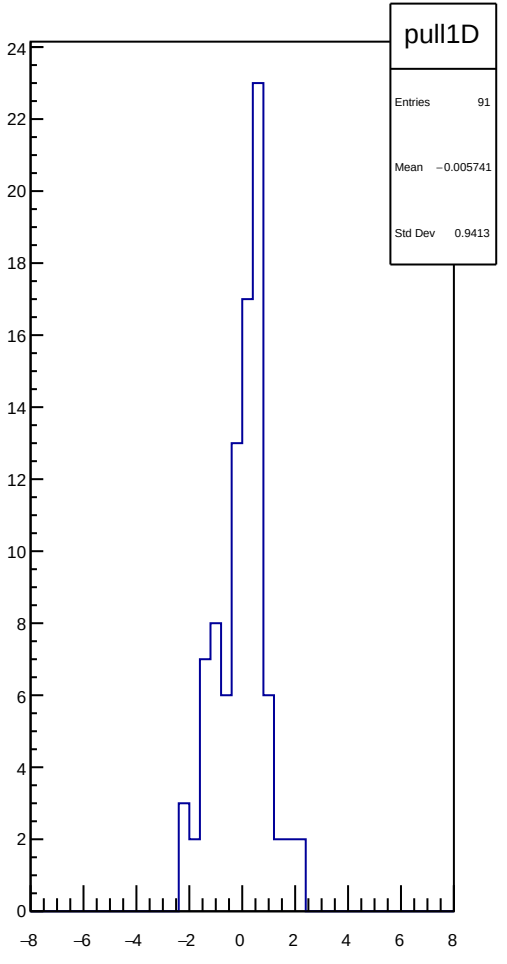

eigen_dit_asym_atl_dd_rms vs run
χ² / ndf 106.7 / 90
p0 2.39e+04 ± 18.07
24600
24400
24200
24000
23800
23600
23400
23200

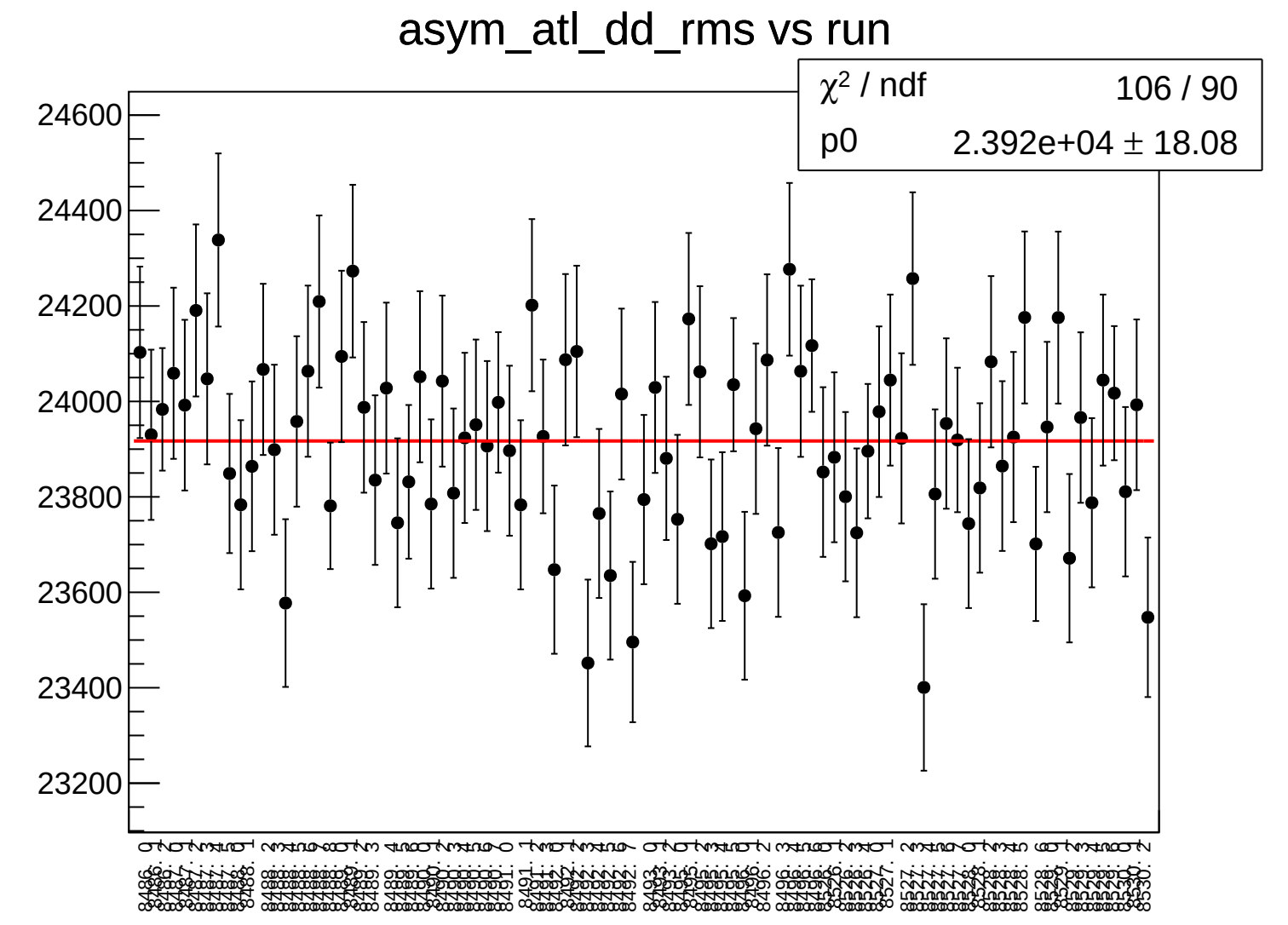

asym_atl_dd_eigen_dit_correction_mean vs run
χ² / ndf 83.24 / 90
p0 797.7 ± 869.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 70.46
Std Dev 15.01
2
1
0
−1
−2

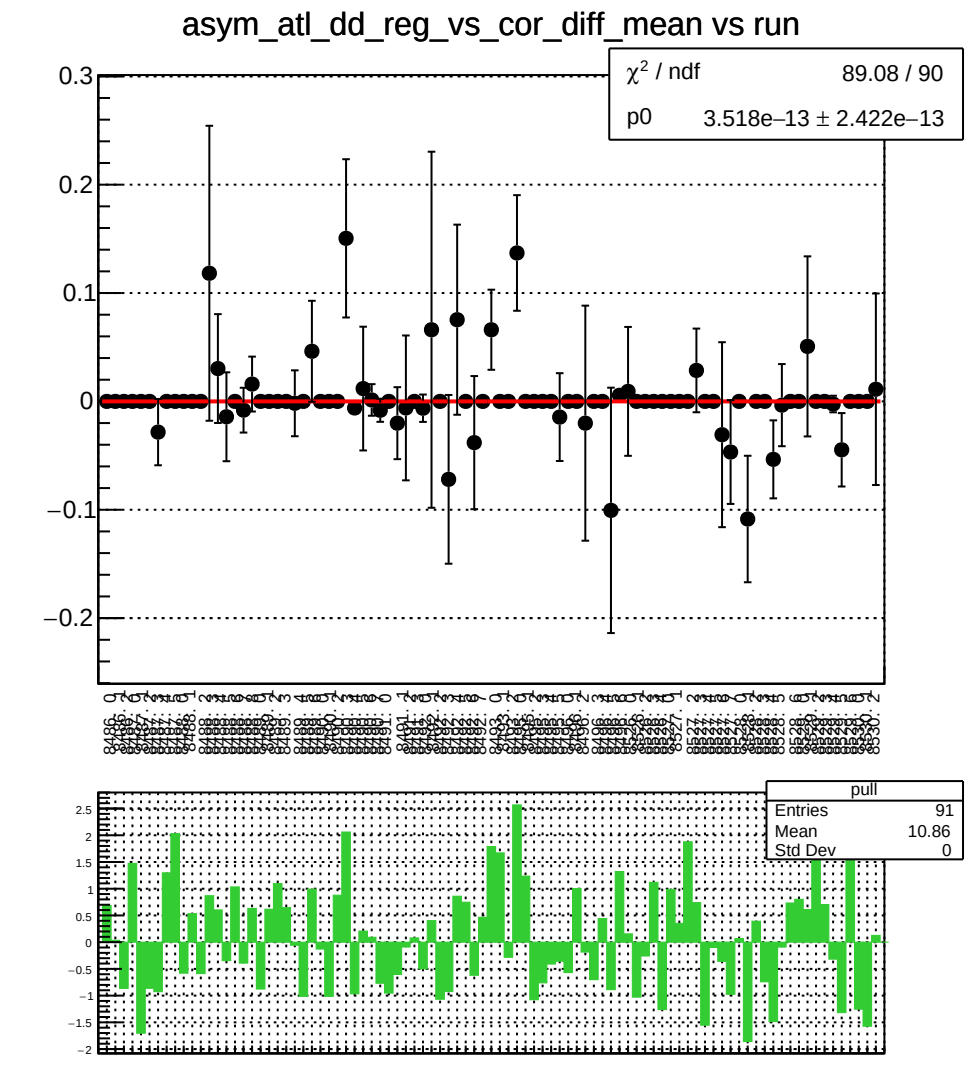

pull1D
Entries 91
Mean −0.02843
Std Dev 0.956
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

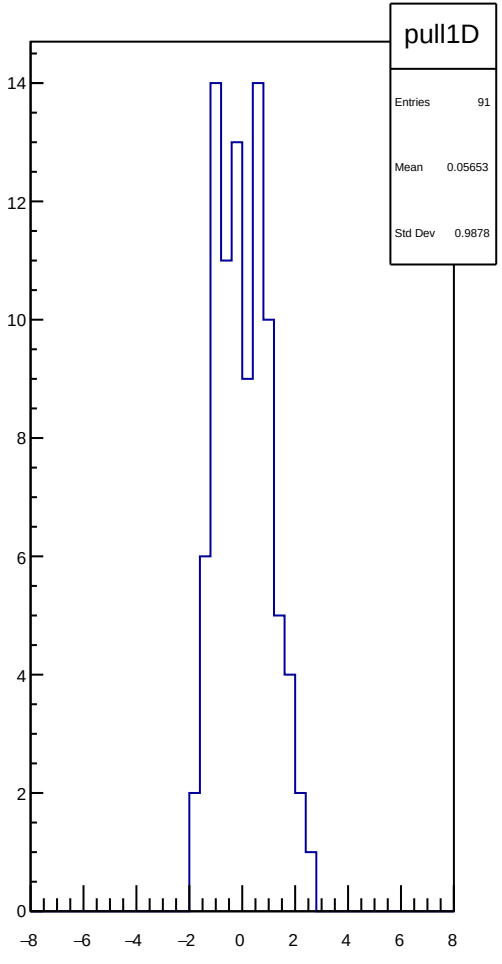

asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 9733 / 90
p0 811.2 ± 0.6151
1000
950
900
850
800
750
700

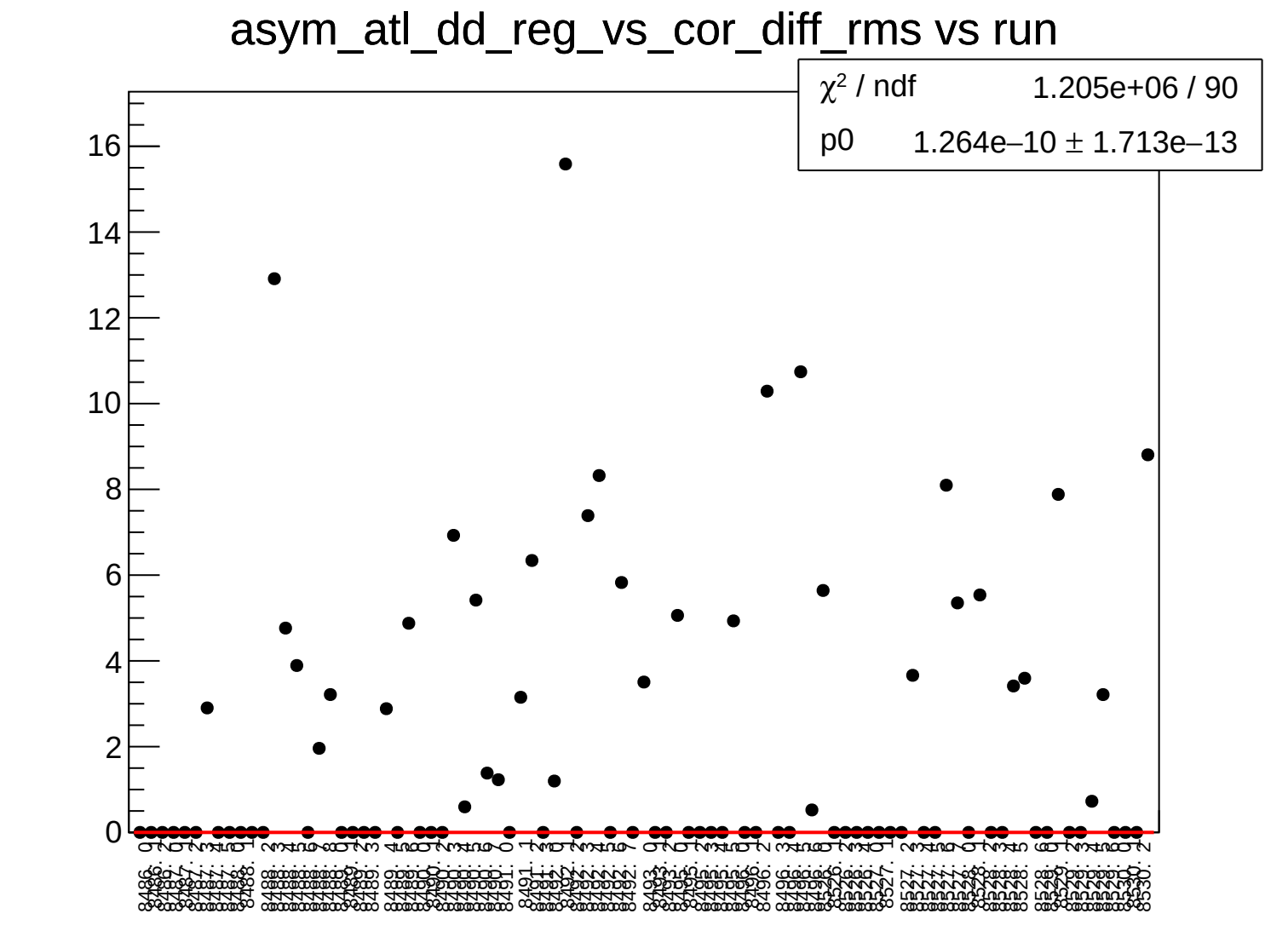

asym_atl_dd_mean vs run
×10^3
χ² / ndf 80.63 / 90
p0 1.728e+04 ± 2.557e+04
pull
Entries 91
Mean −1081
Std Dev 0

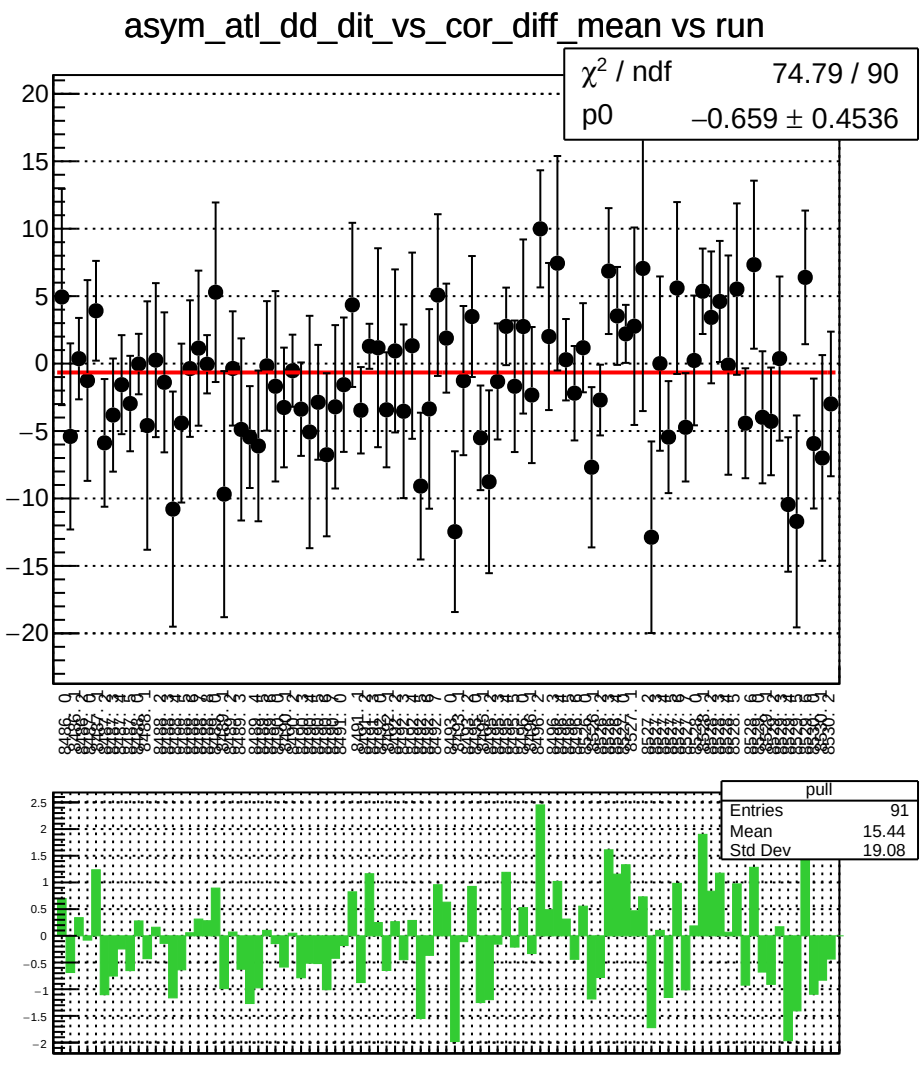

pull1D
Entries 91
Mean −0.005741
Std Dev 0.9413

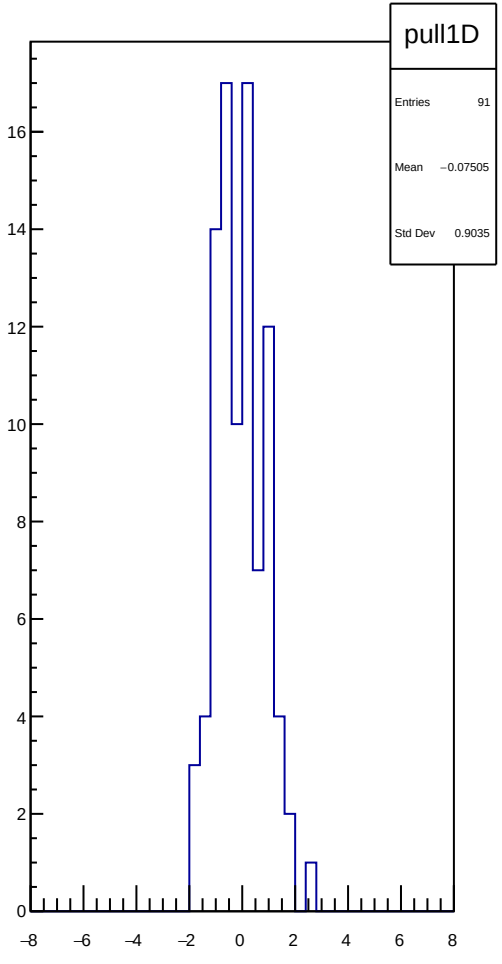

asym_atl_dd_rms vs run
χ² / ndf 106 / 90
p0 2.392e+04 ± 18.08
24600
24400
24200
24000
23800
23600
23400
23200

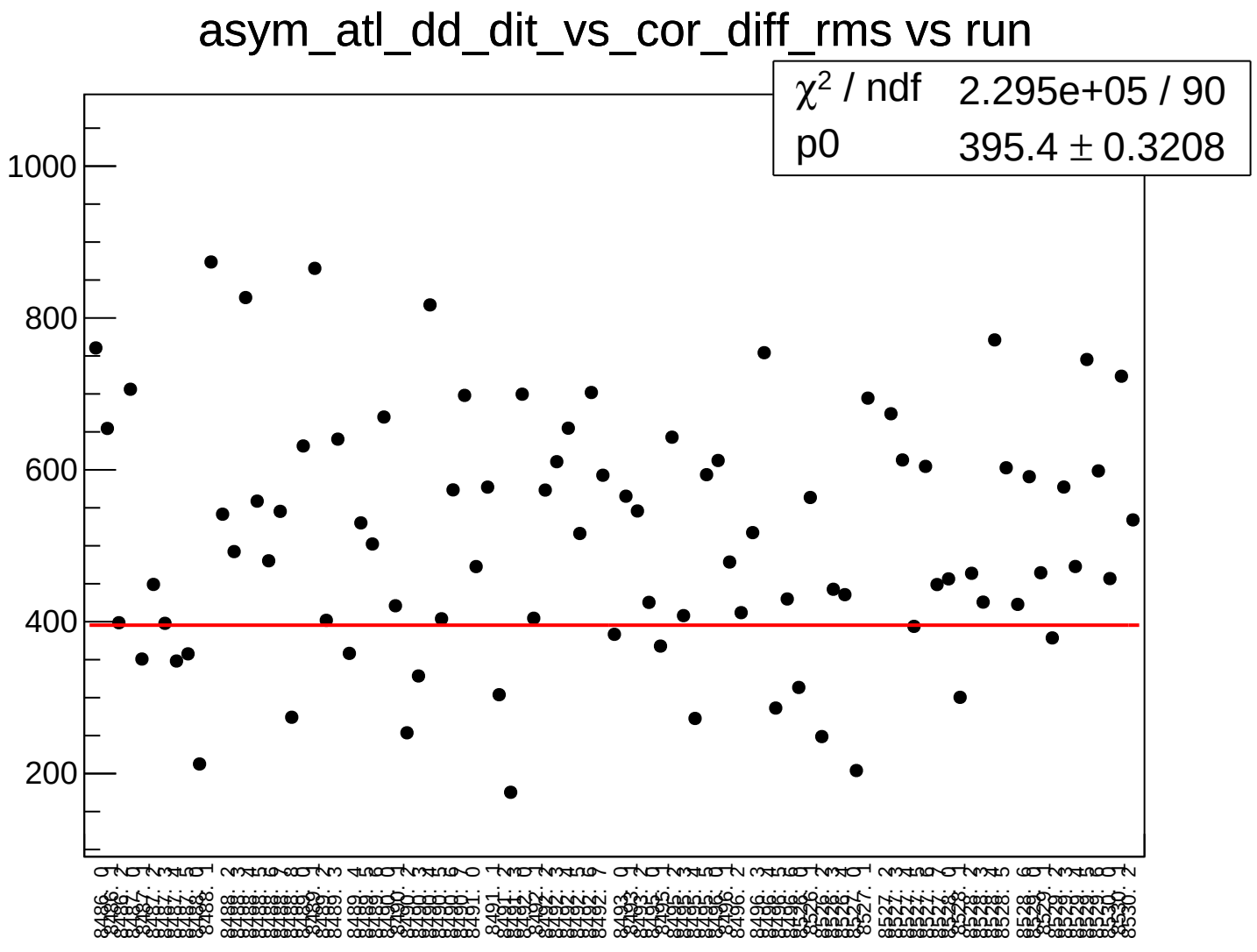

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 89.08 / 90
p0 3.518e−13 ± 2.422e−13
pull
Entries 91
Mean 10.86
Std Dev 0

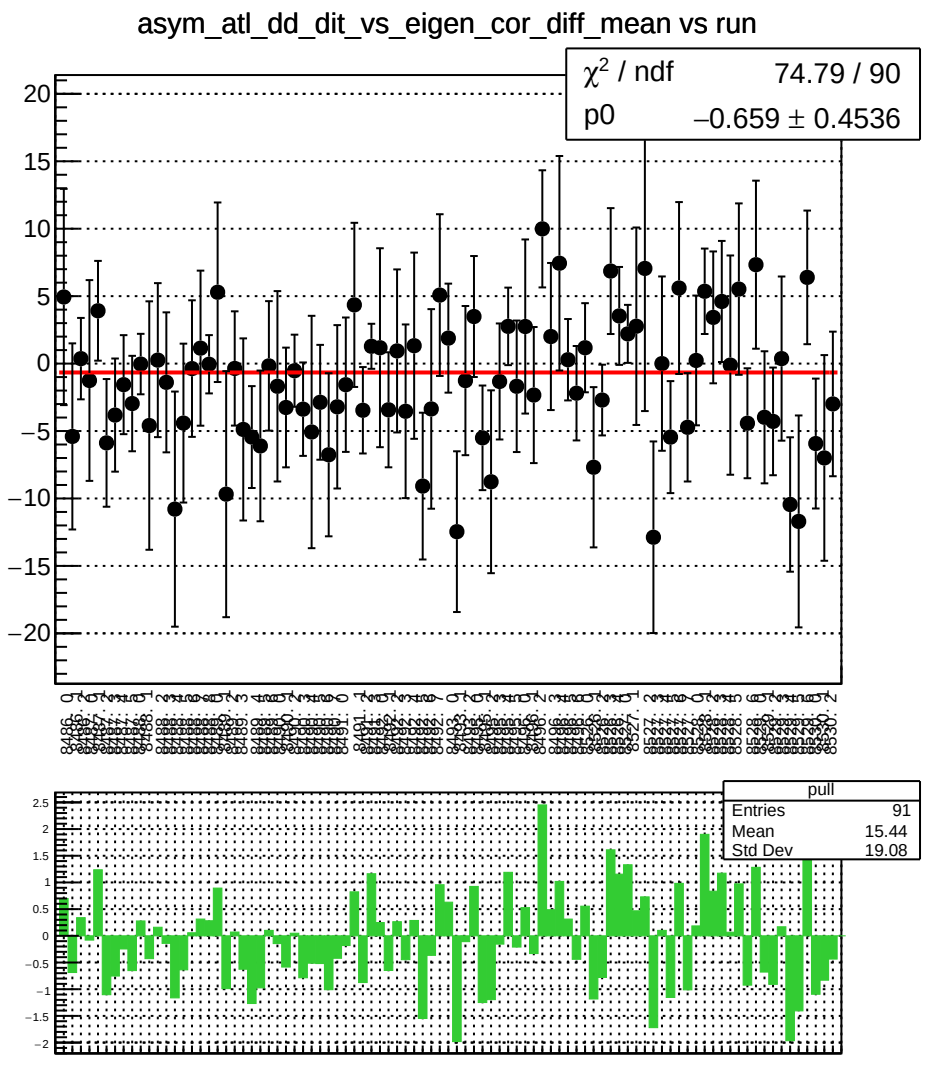

pull1D
Entries 91
Mean 0.05653
Std Dev 0.9878

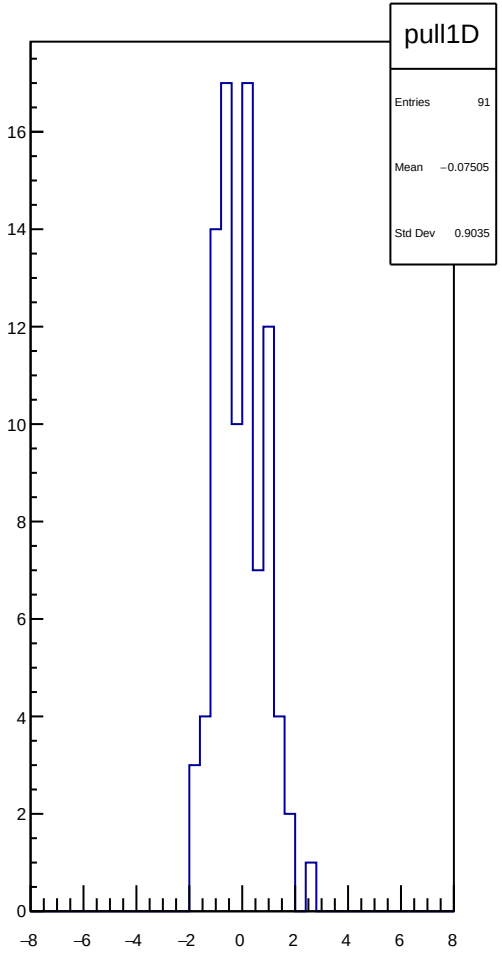

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.205e+06 / 90
p0 1.264e−10 ± 1.713e−13
0
2
4
6
8
10
12
14
16

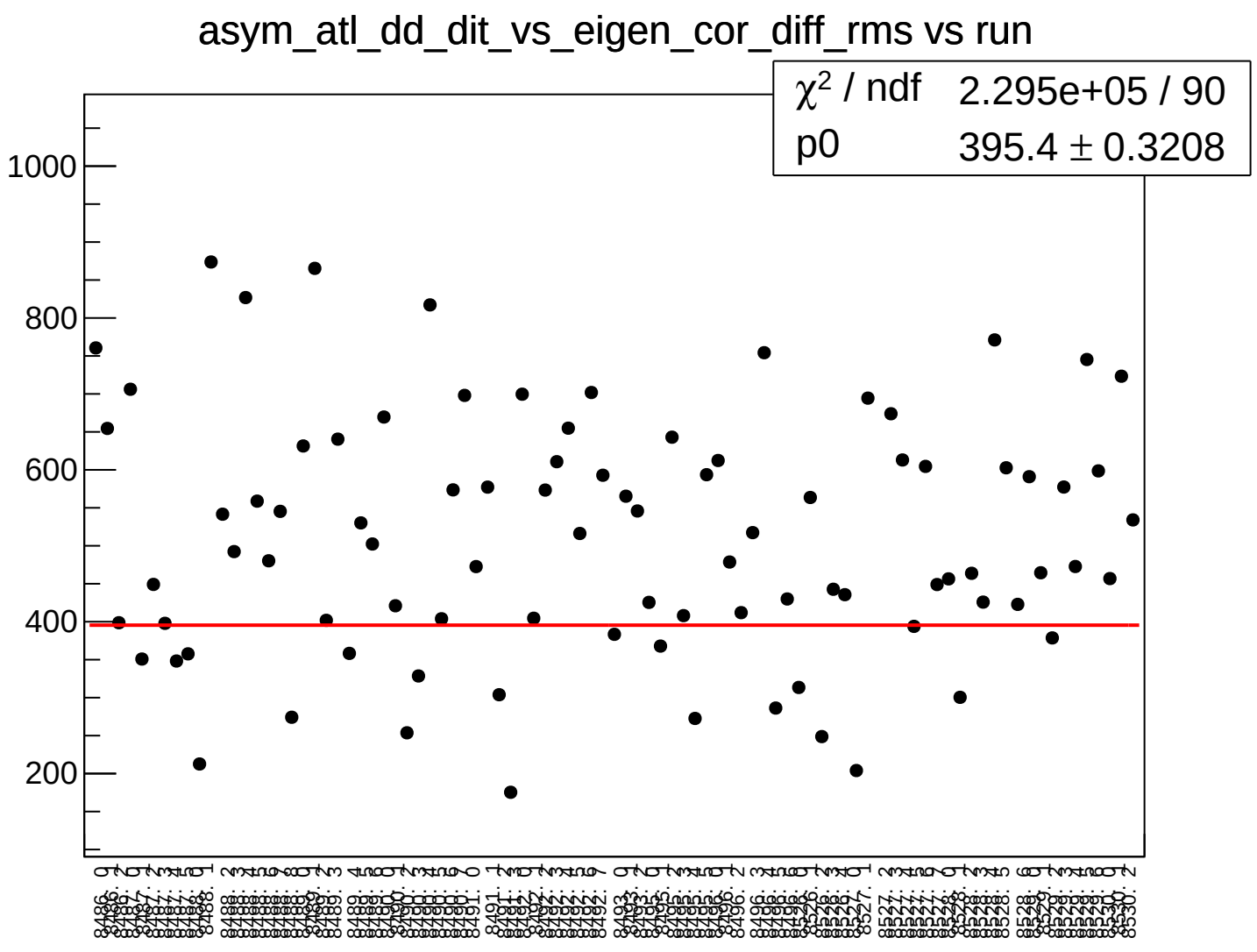

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 74.79 / 90
p0 −0.659 ± 0.4536
pull
Entries 91
Mean 15.44
Std Dev 19.08

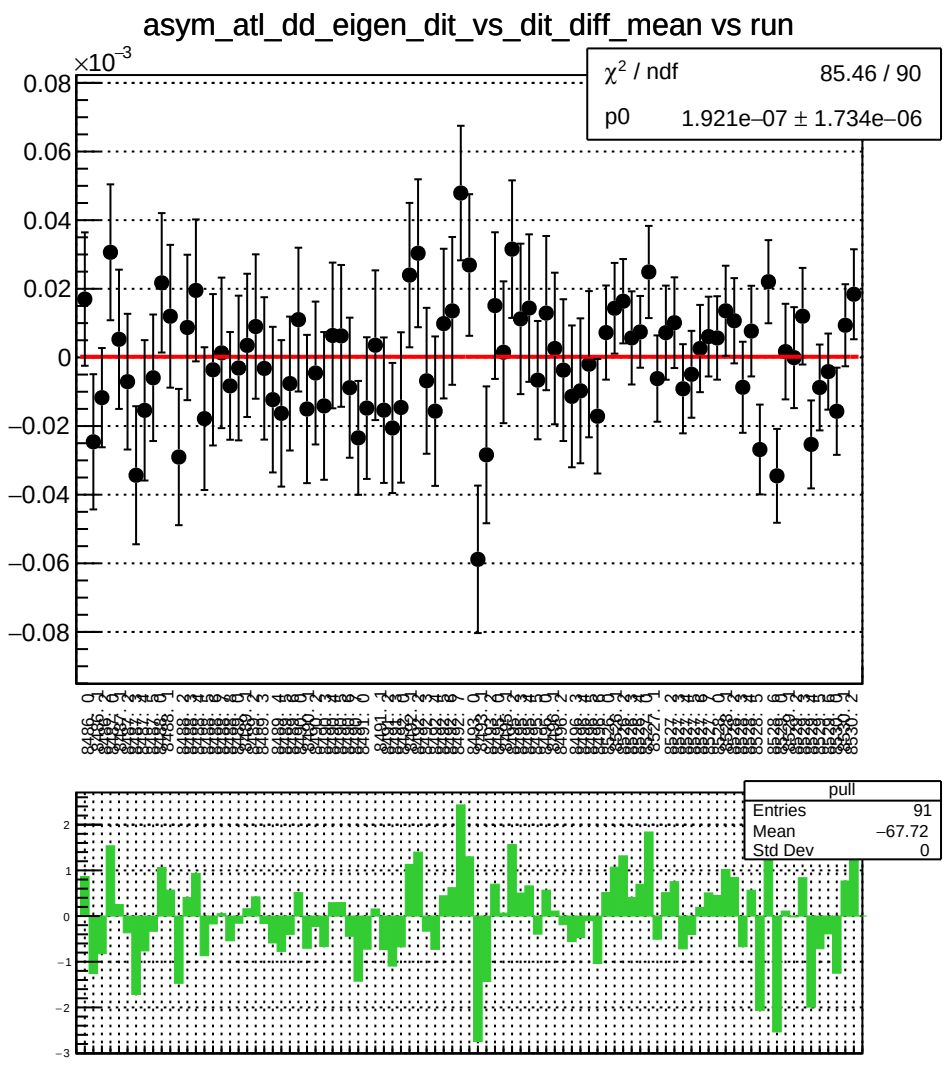

pull1D
Entries 91
Mean −0.07505
Std Dev 0.9035

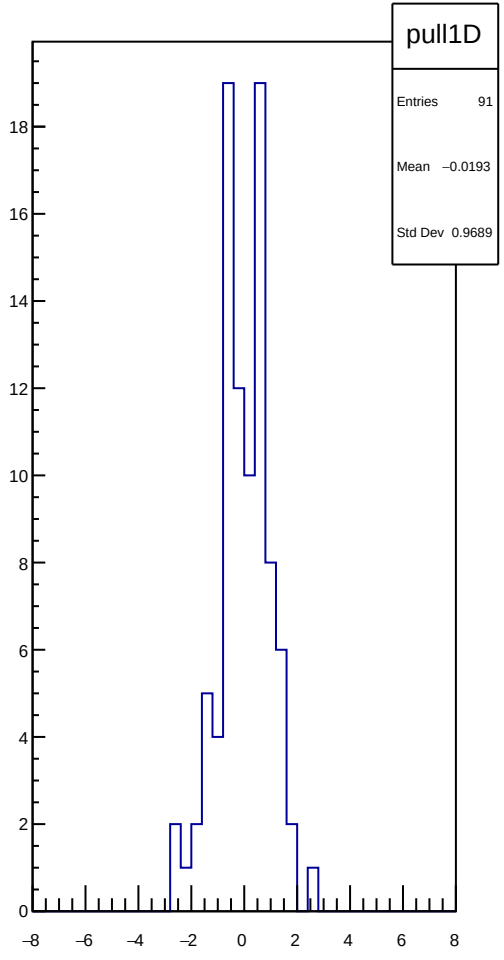

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.295e+05 / 90
p0 395.4 ± 0.3208
1000
800
600
400
200

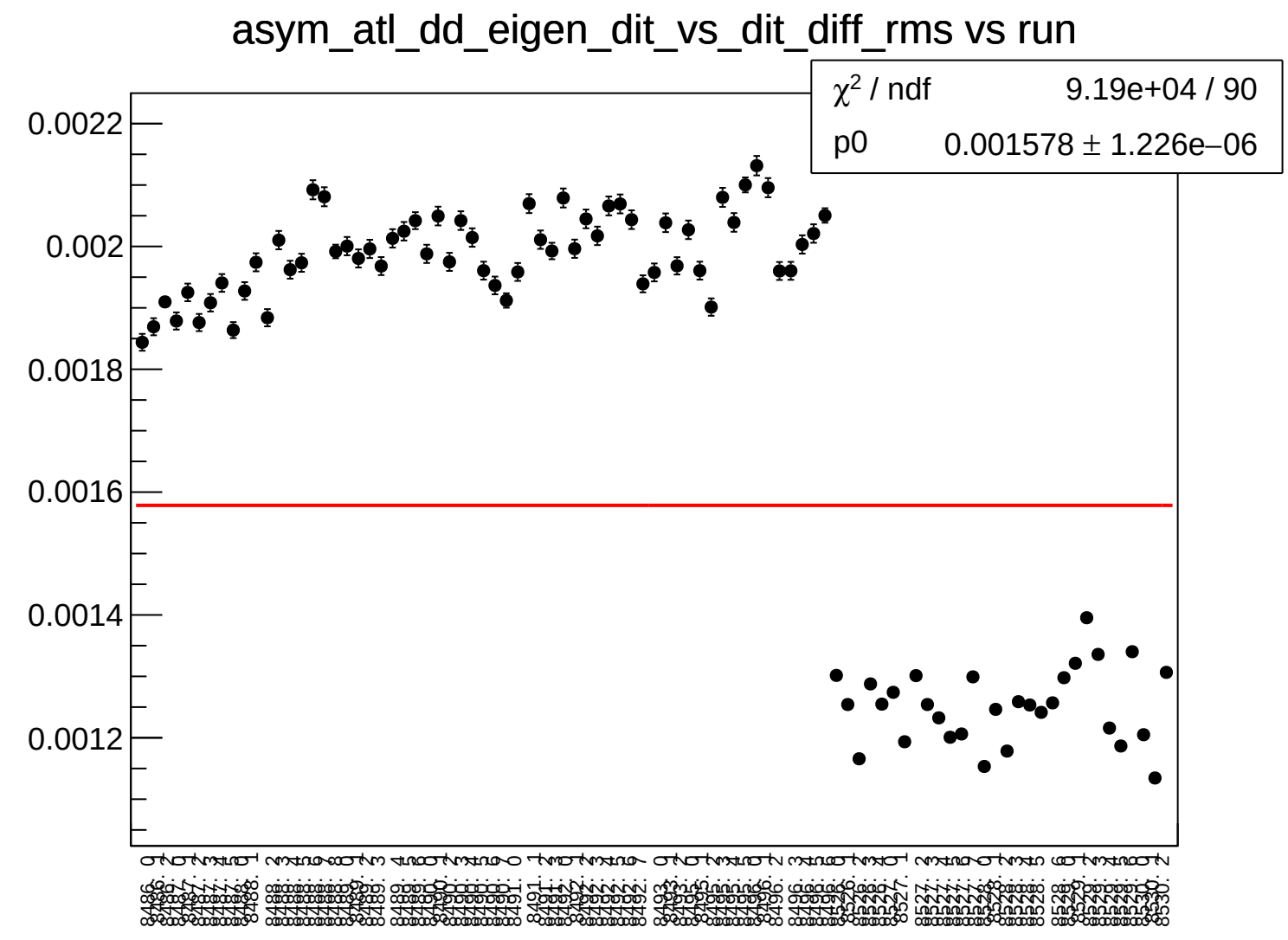

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.79 / 90
p0 −0.659 ± 0.4536
pull
Entries 91
Mean 15.44
Std Dev 19.08

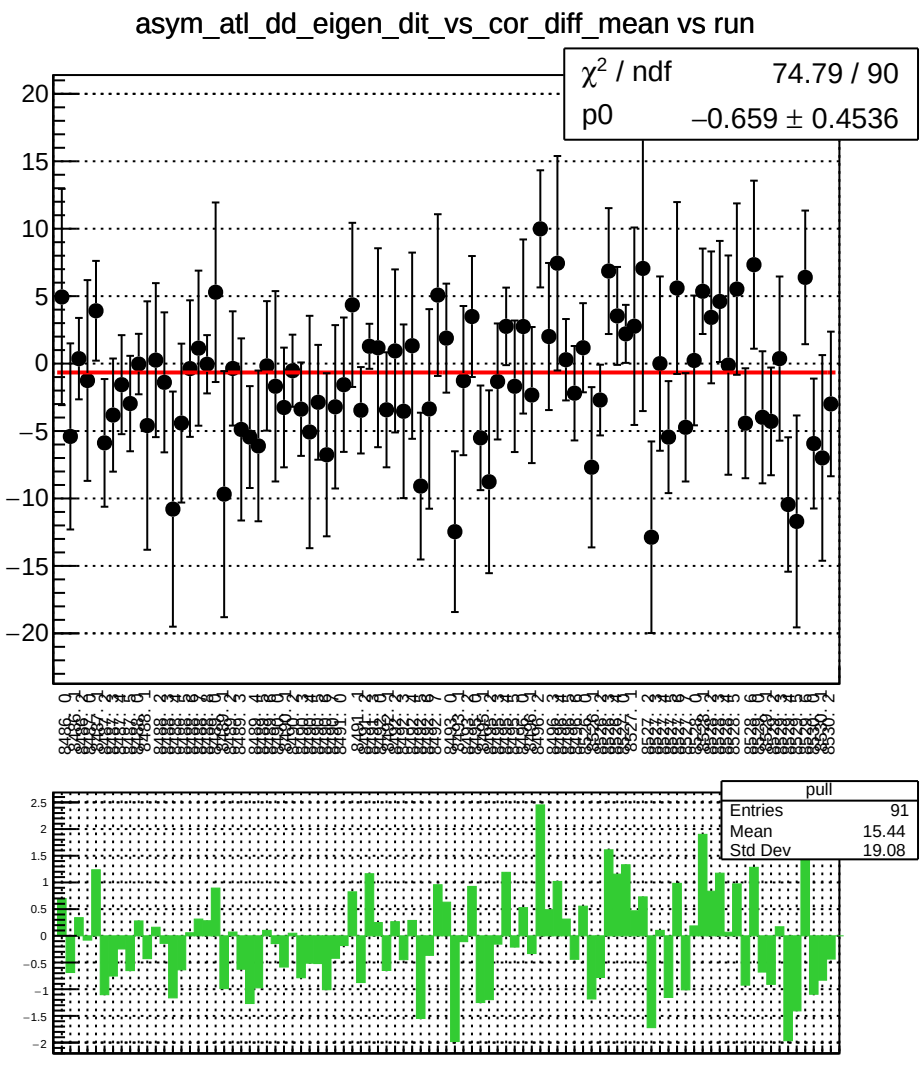

pull1D
Entries 91
Mean −0.07505
Std Dev 0.9035

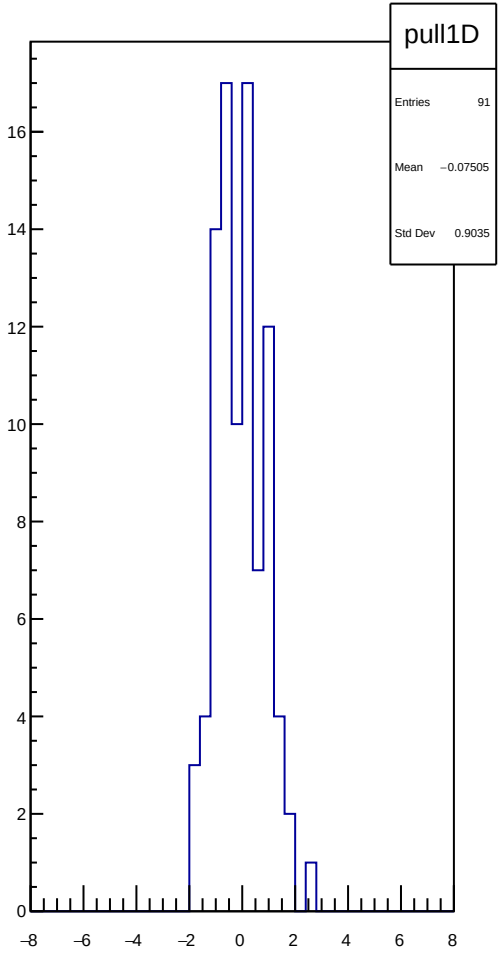

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.295e+05 / 90
p0 395.4 ± 0.3208
1000
800
600
400
200

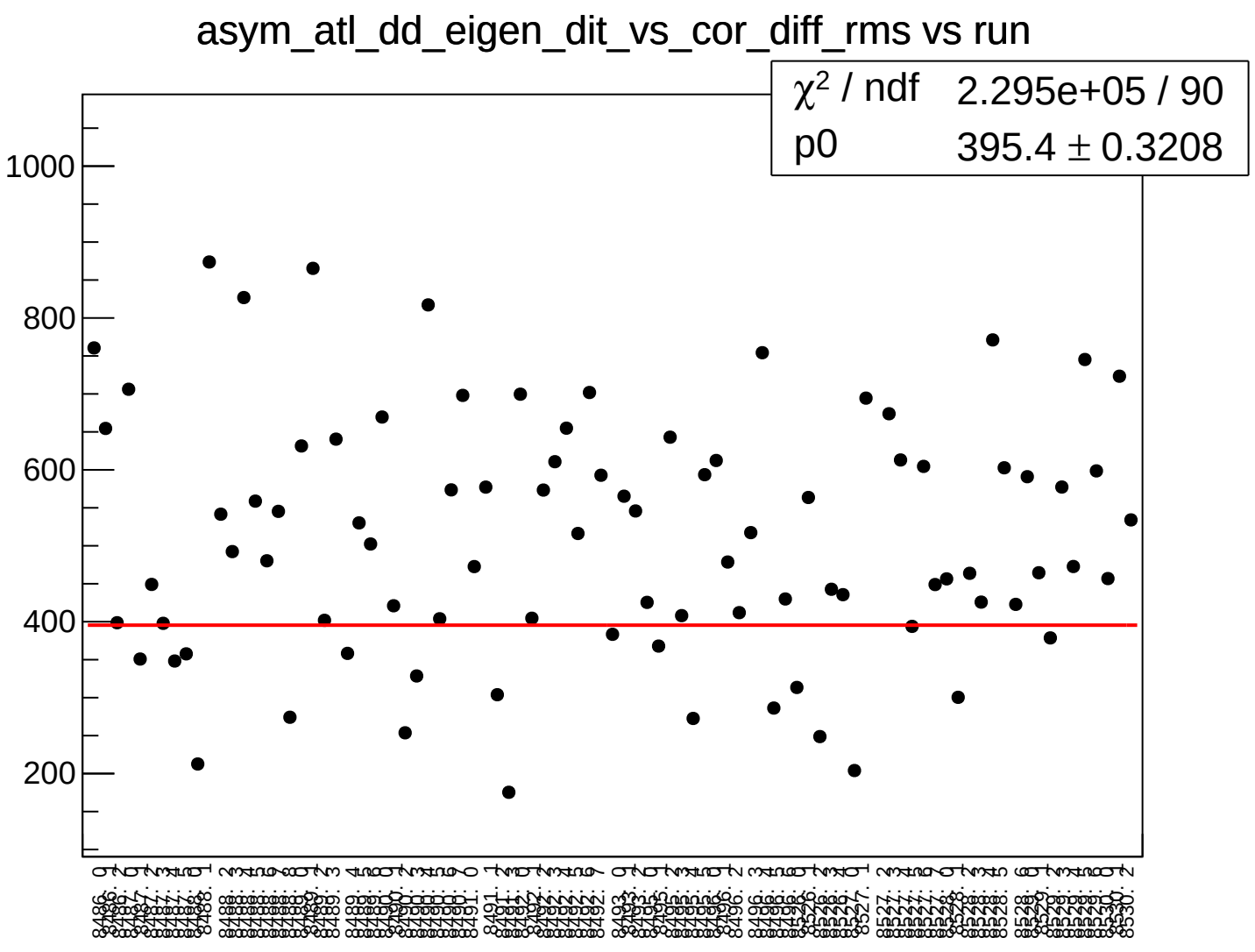

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.46 / 90
p0 1.921e−07 ± 1.734e−06
pull
Entries 91
Mean −67.72
Std Dev 0

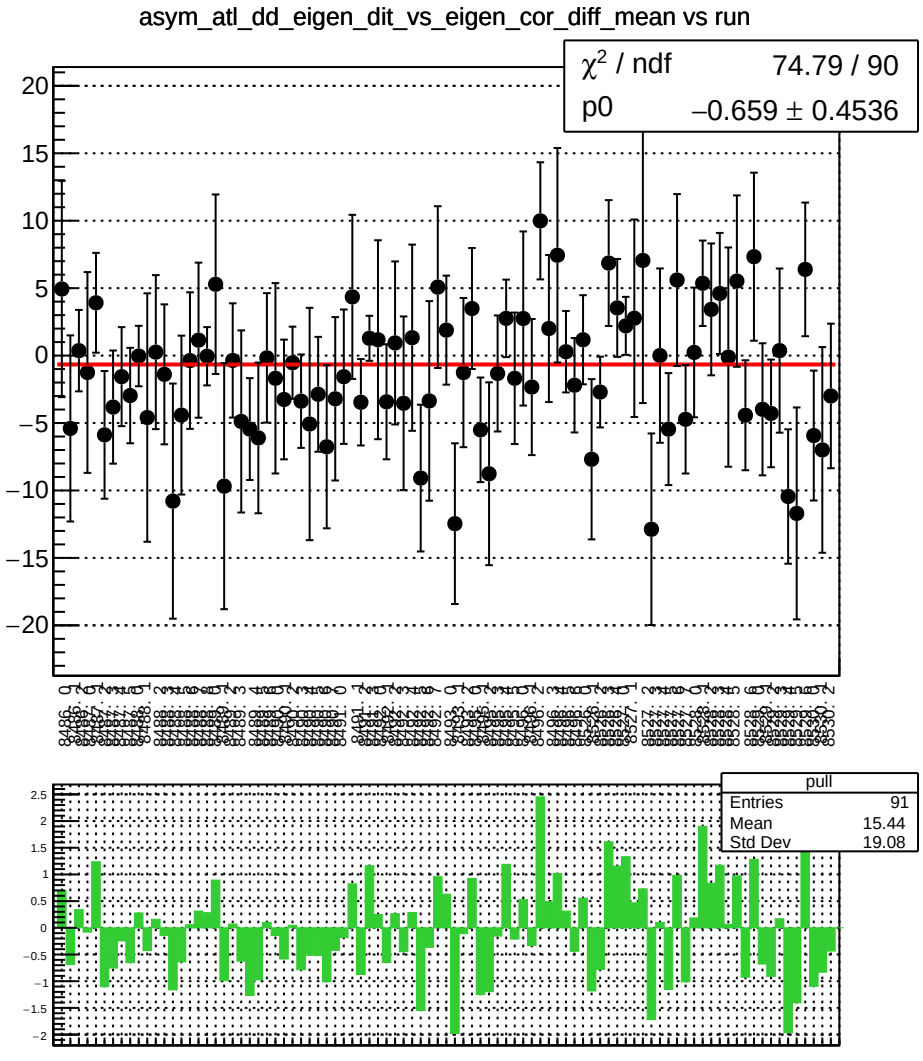

pull1D
Entries 91
Mean −0.0193
Std Dev 0.9689

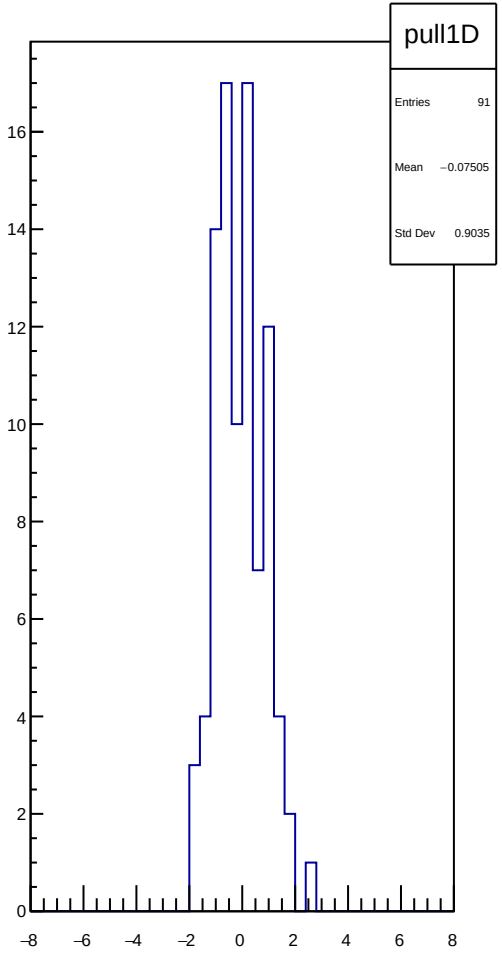

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.19e+04 / 90
p0 0.001578 ± 1.226e−06
0.0022
0.002
0.0018
0.0016
0.0014
0.0012

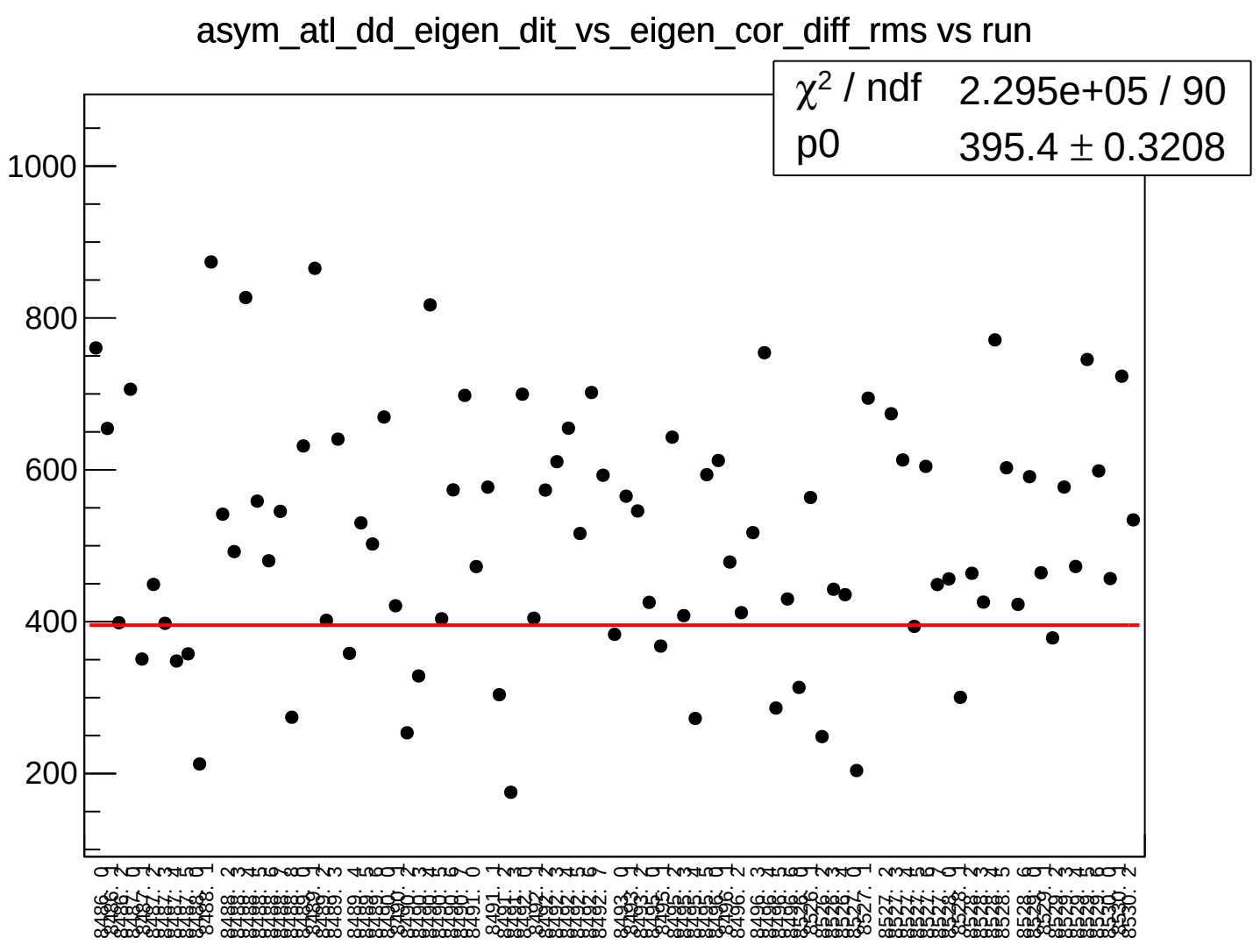

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.79 / 90
p0 −0.659 ± 0.4536
pull
Entries 91
Mean 15.44
Std Dev 19.08

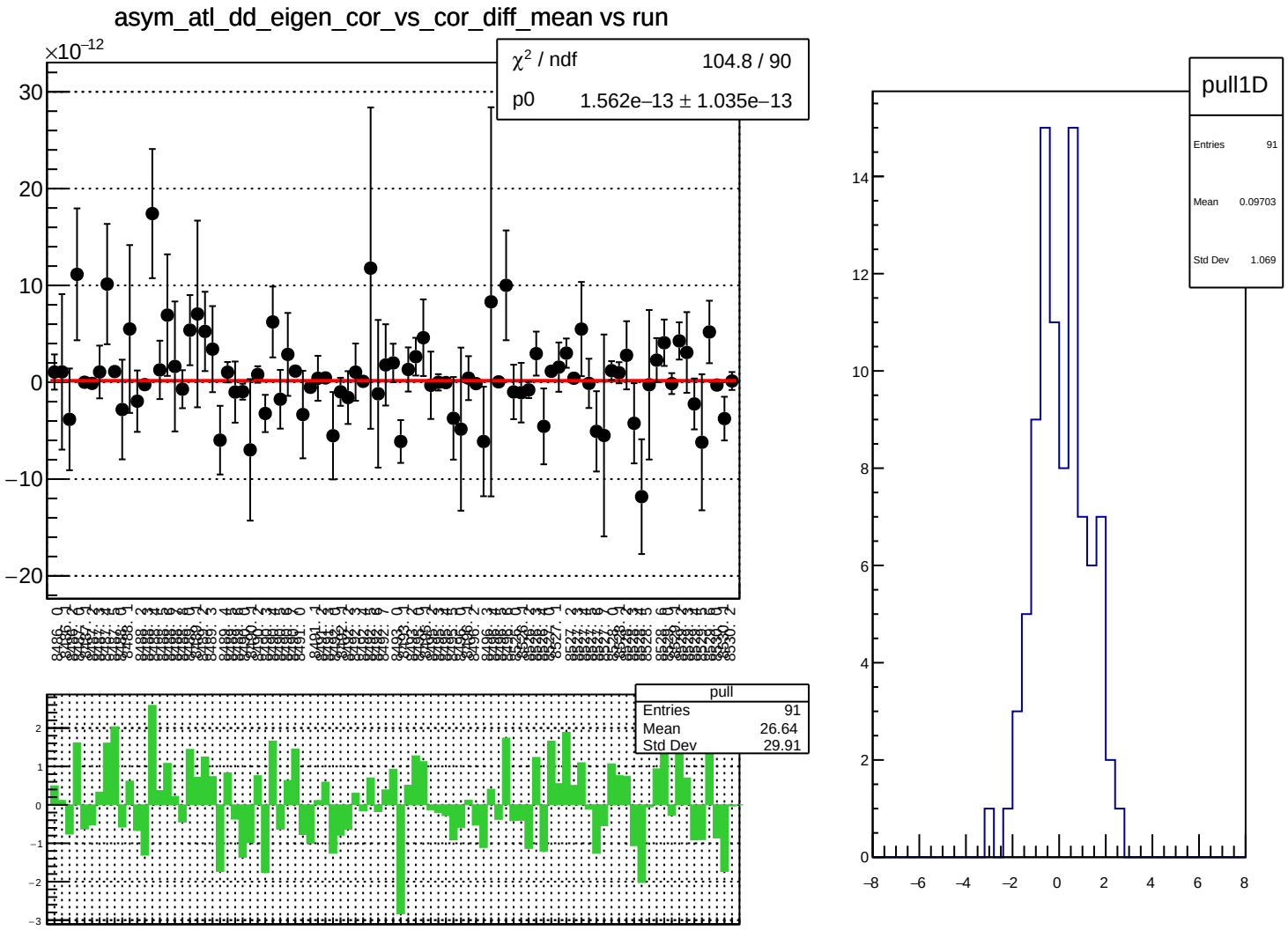

pull1D
Entries 91
Mean −0.07505
Std Dev 0.9035

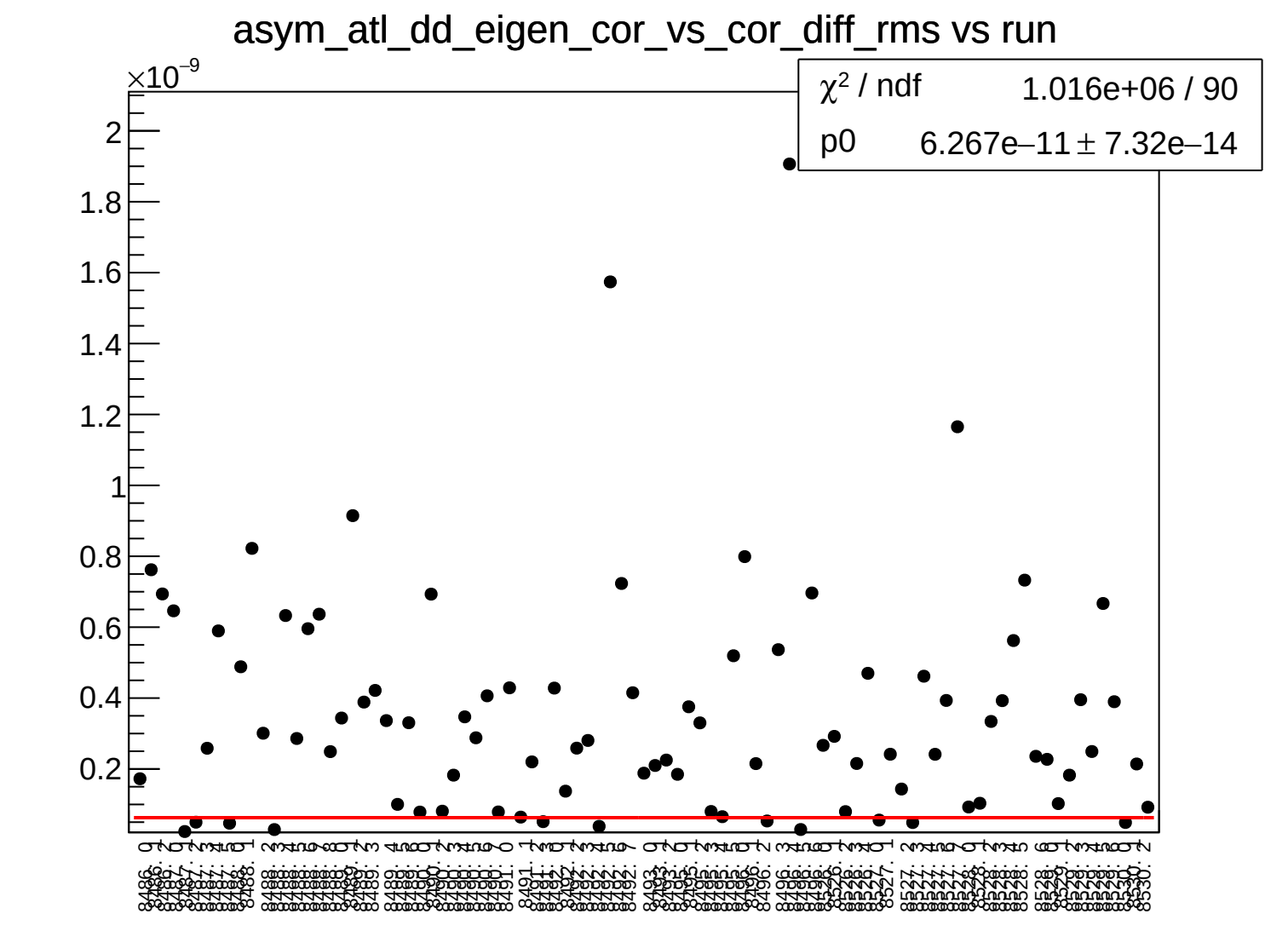

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.295e+05 / 90
p0 395.4 ± 0.3208
1000
800
600
400
200

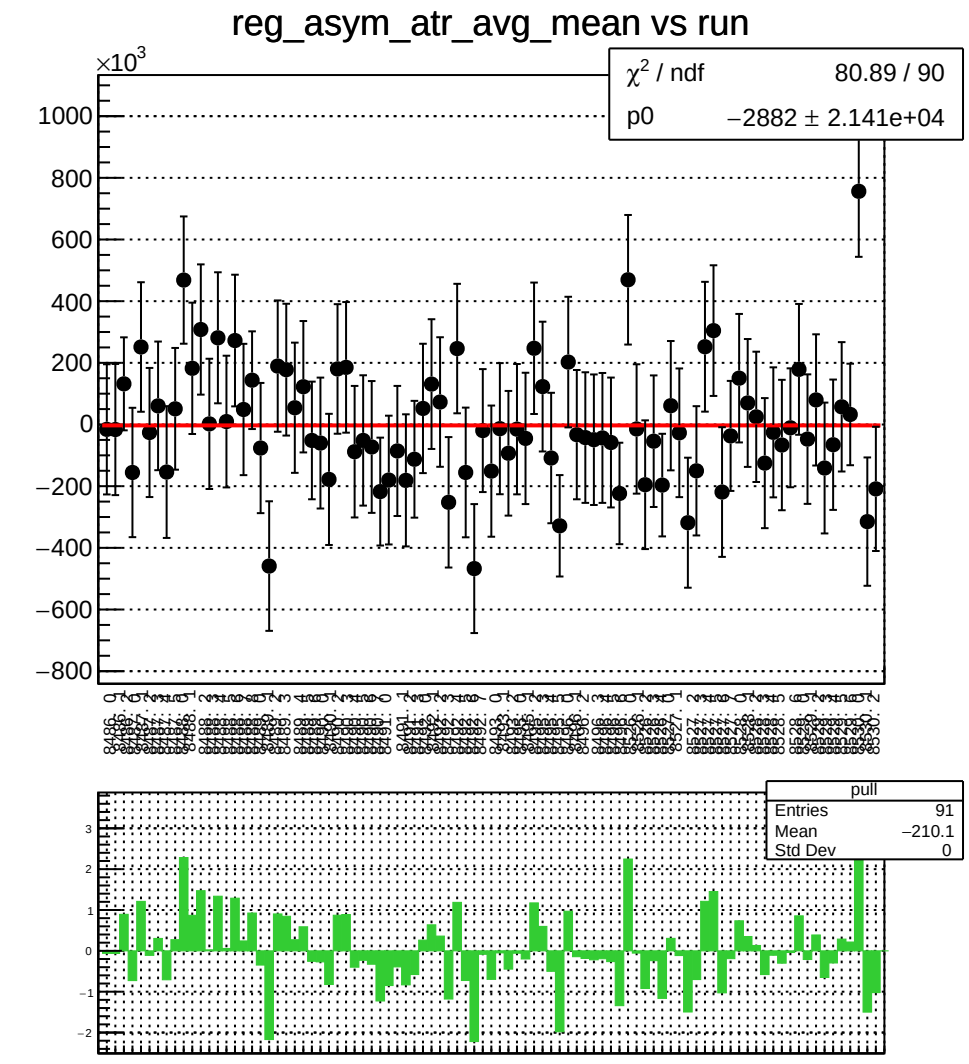

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.79 / 90
p0 −0.659 ± 0.4536
pull
Entries 91
Mean 15.44
Std Dev 19.08

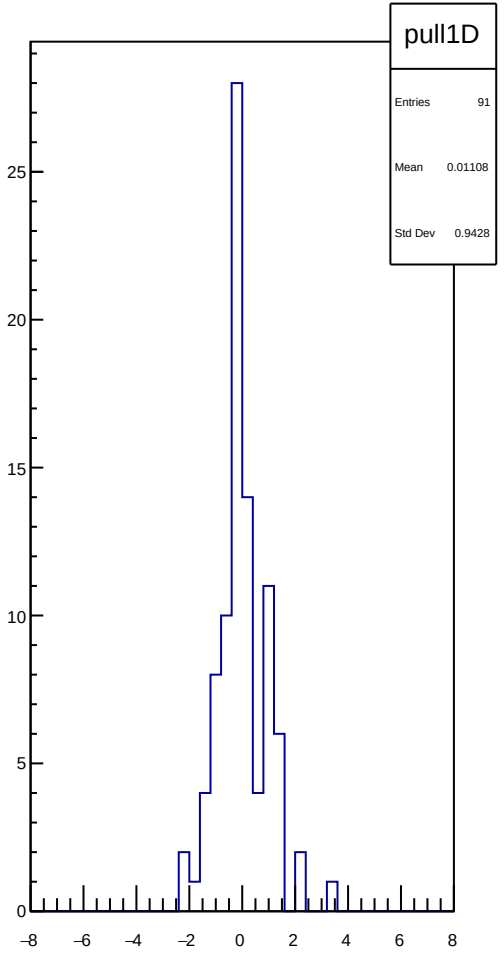

pull1D
Entries 91
Mean −0.07505
Std Dev 0.9035

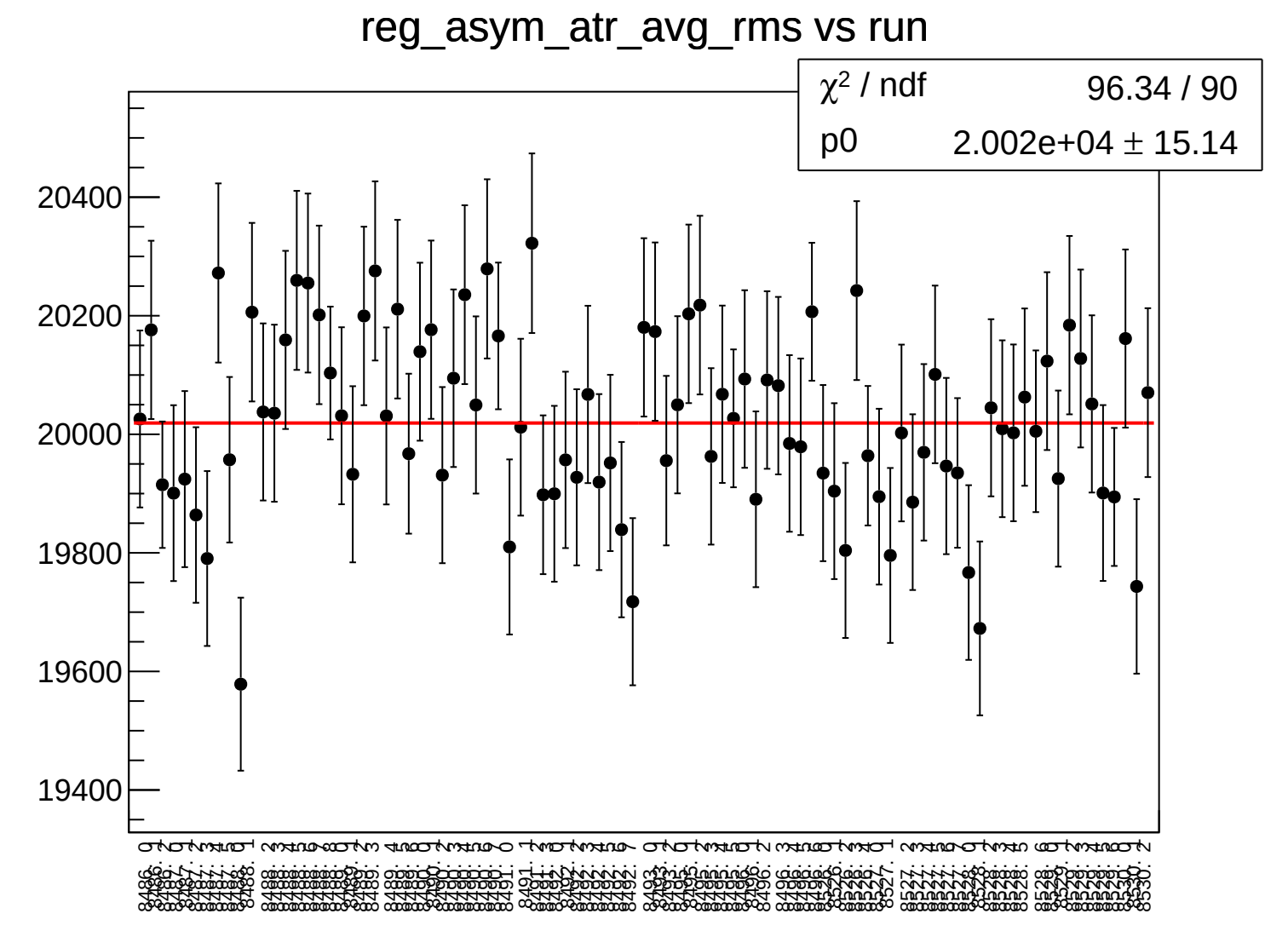

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.295e+05 / 90
p0 395.4 ± 0.3208
1000
800
600
400
200

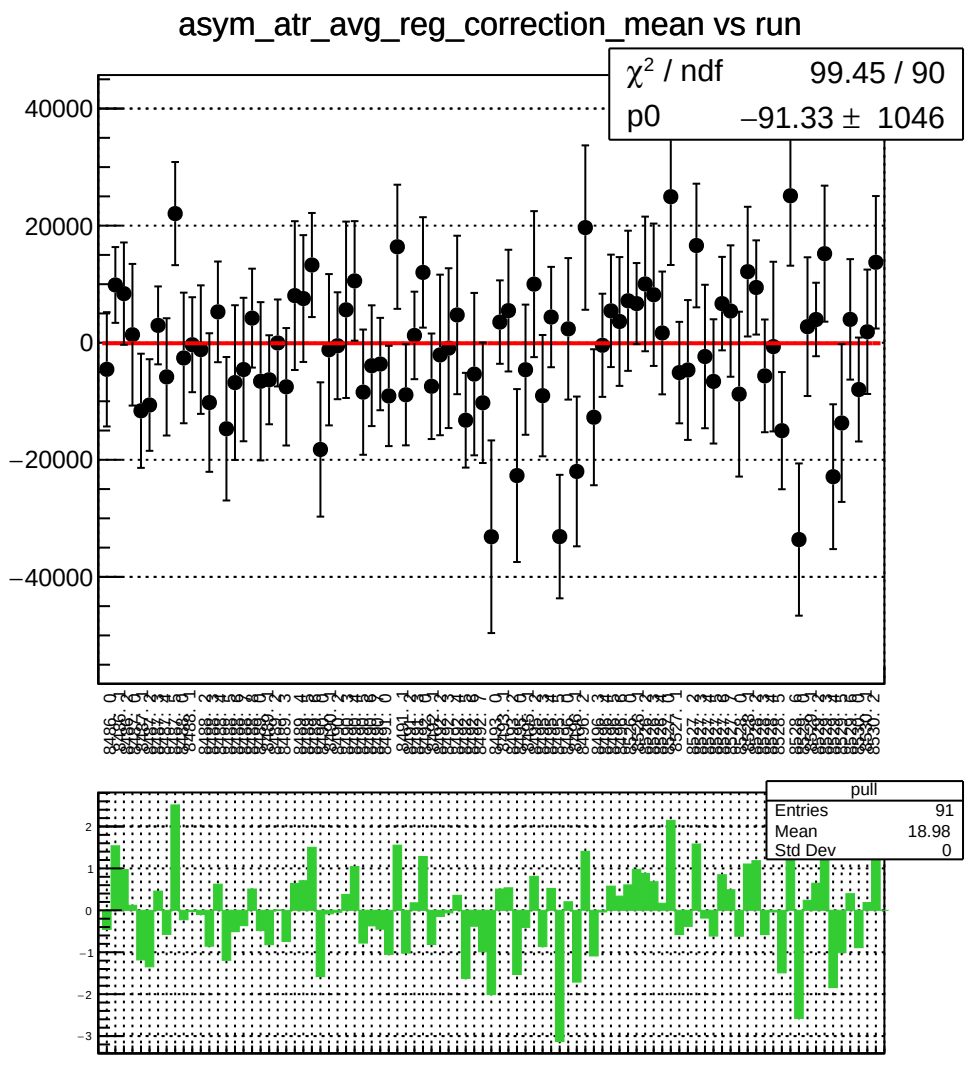

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 104.8 / 90
p0 1.562e−13 ± 1.035e−13
pull
Entries 91
Mean 26.64
Std Dev 29.91
pull1D
Entries 91
Mean 0.09703
Std Dev 1.069

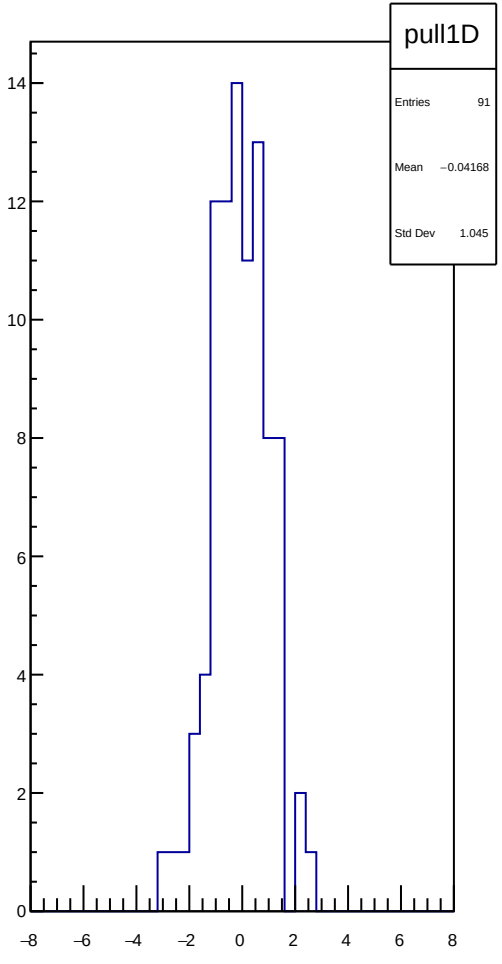

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.016e+06 / 90
p0 6.267e−11 ± 7.32e−14
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

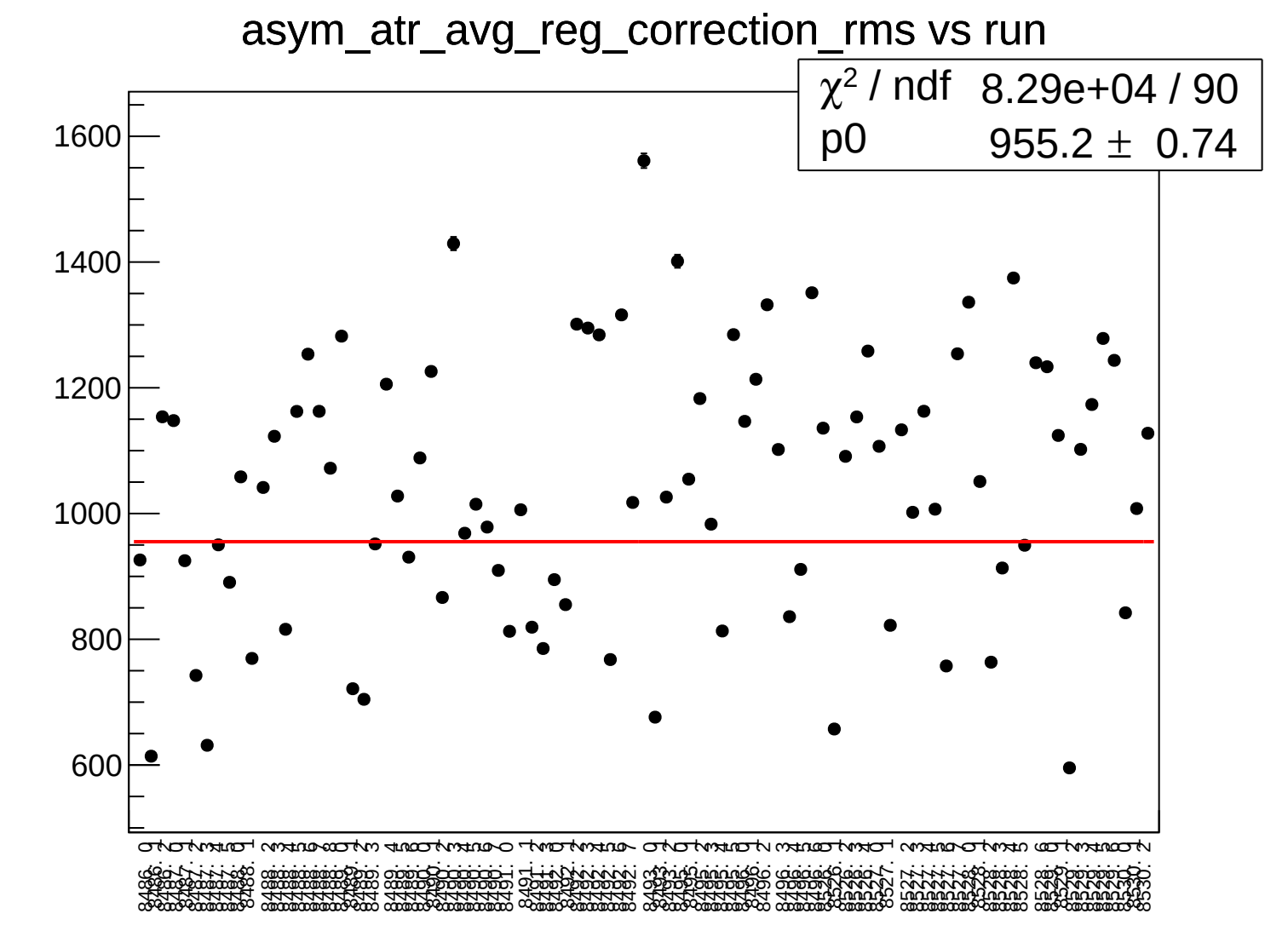

reg_asym_atr_avg_mean vs run
×10^3
χ² / ndf 80.89 / 90
p0 −2882 ± 2.141e+04
pull
Entries 91
Mean −210.1
Std Dev 0

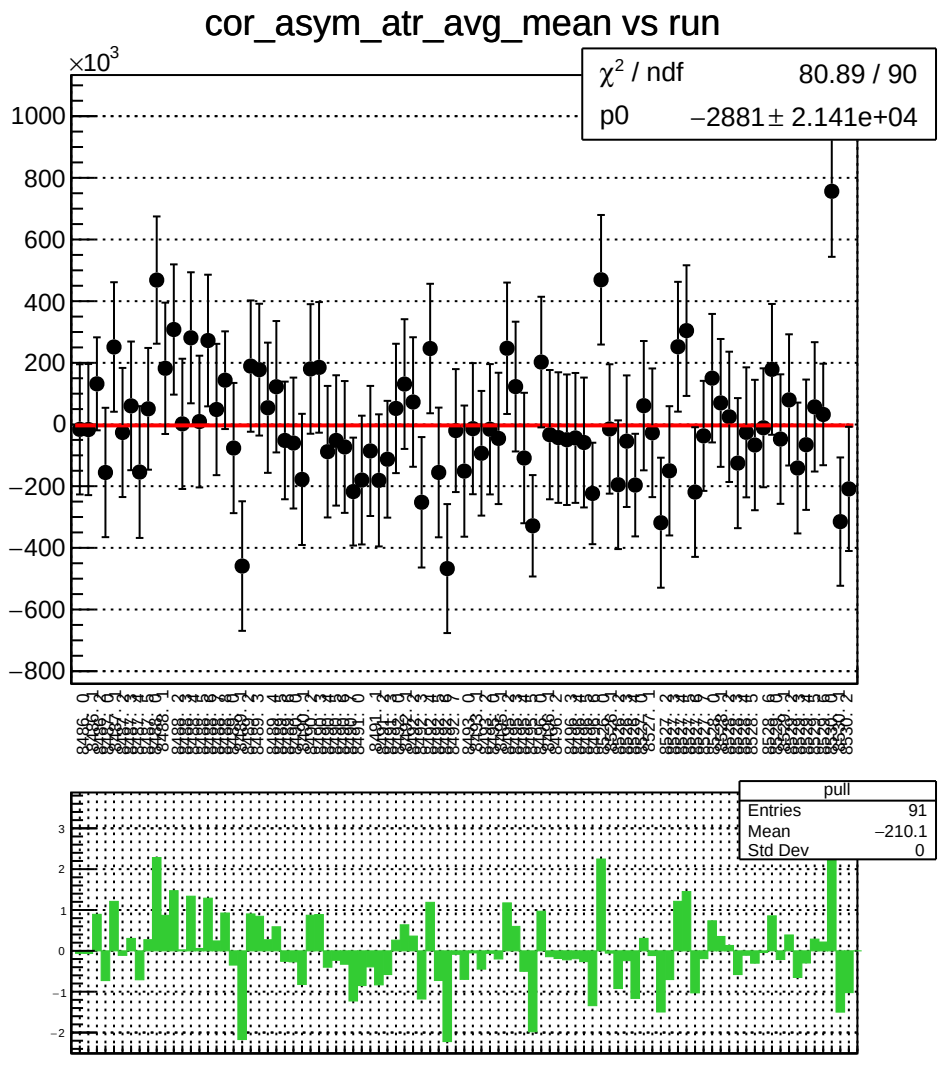

pull1D
Entries 91
Mean 0.01108
Std Dev 0.9428

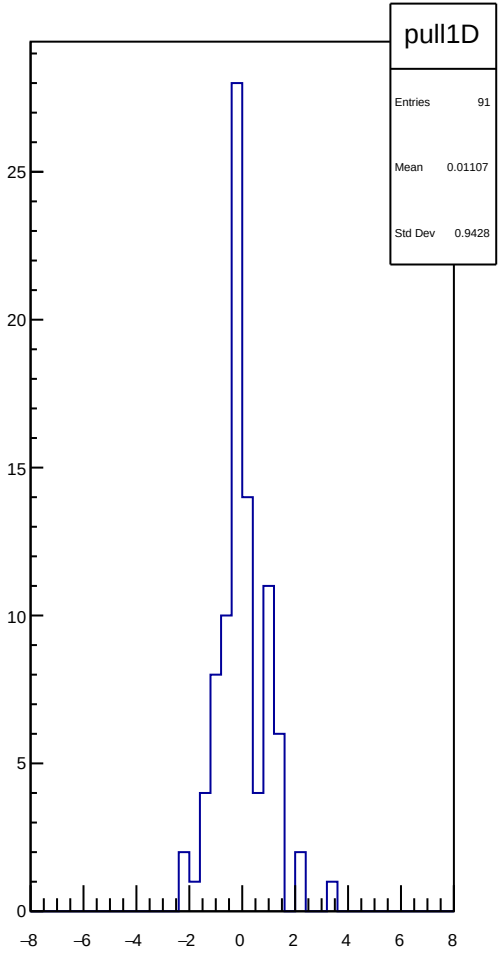

reg_asym_atr_avg_rms vs run
χ² / ndf 96.34 / 90
p0 2.002e+04 ± 15.14
20400
20200
20000
19800
19600
19400

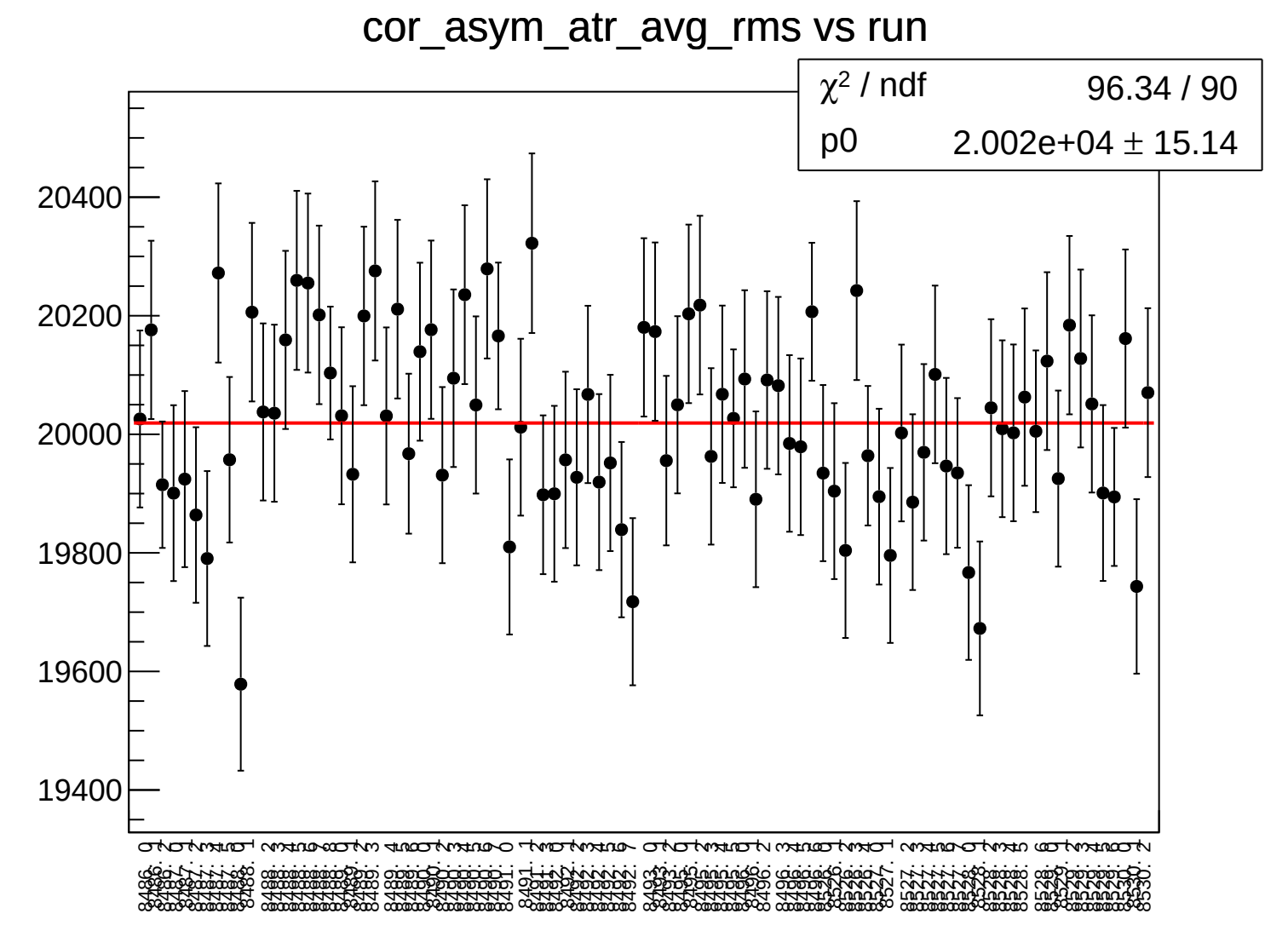

asym_atr_avg_reg_correction_mean vs run
χ² / ndf 99.45 / 90
p0 −91.33 ± 1046
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 18.98
Std Dev 0
2
1
0
−1
−2
−3

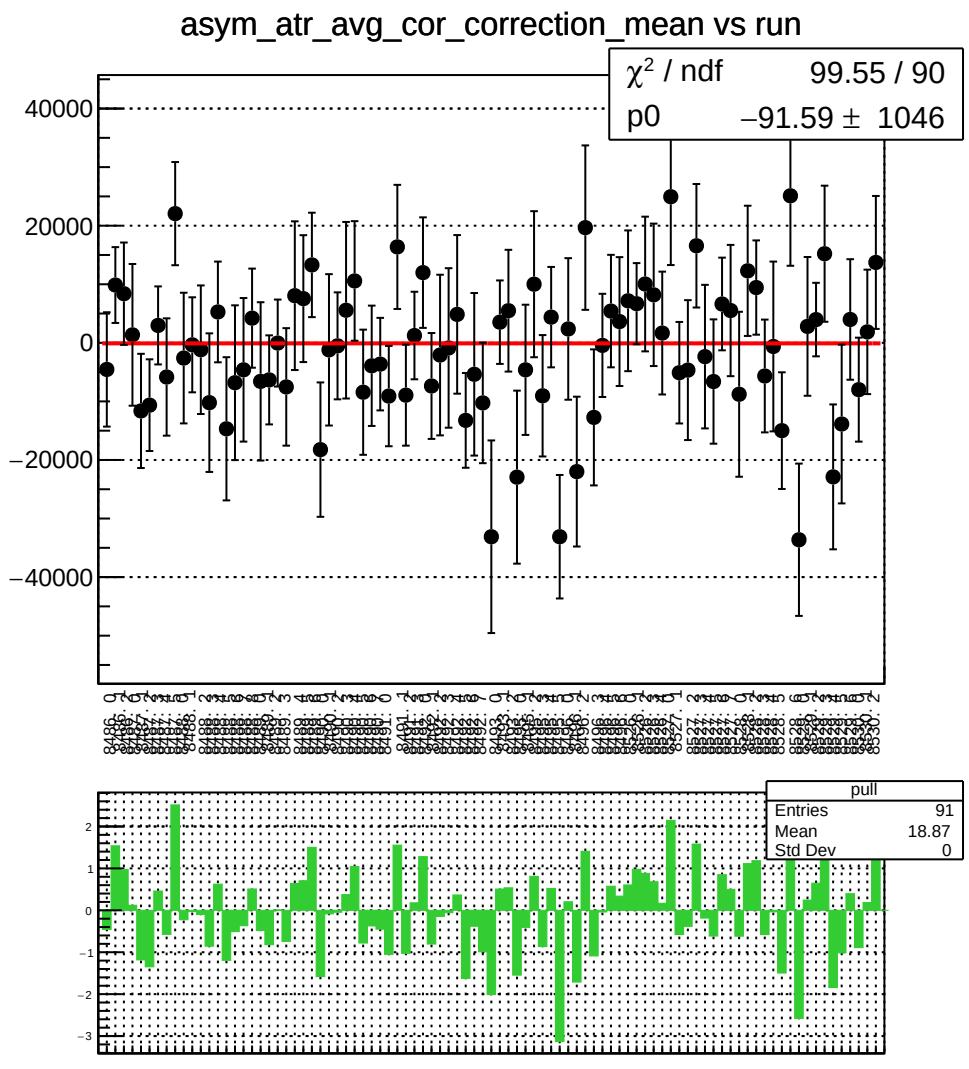

pull1D
Entries 91
Mean −0.04168
Std Dev 1.045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

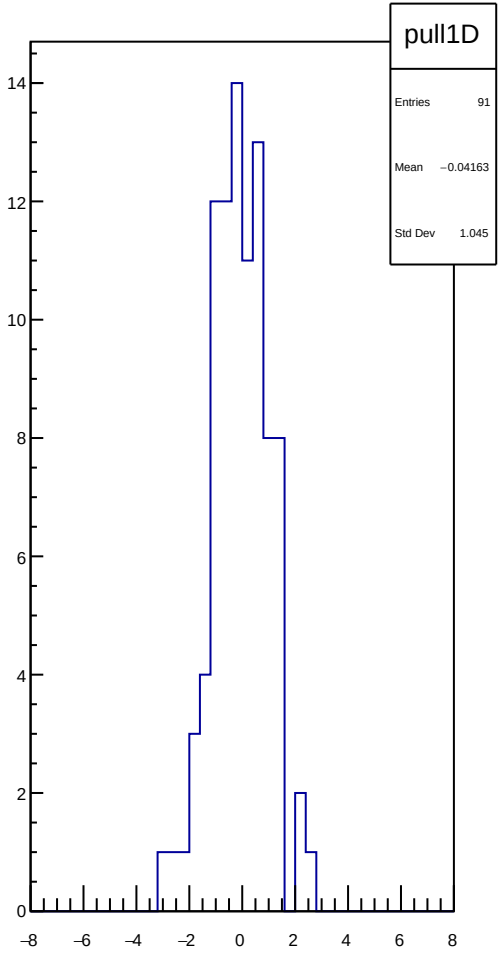

asym_atr_avg_reg_correction_rms vs run
χ² / ndf 8.29e+04 / 90
p0 955.2 ± 0.74
1600
1400
1200
1000
800
600

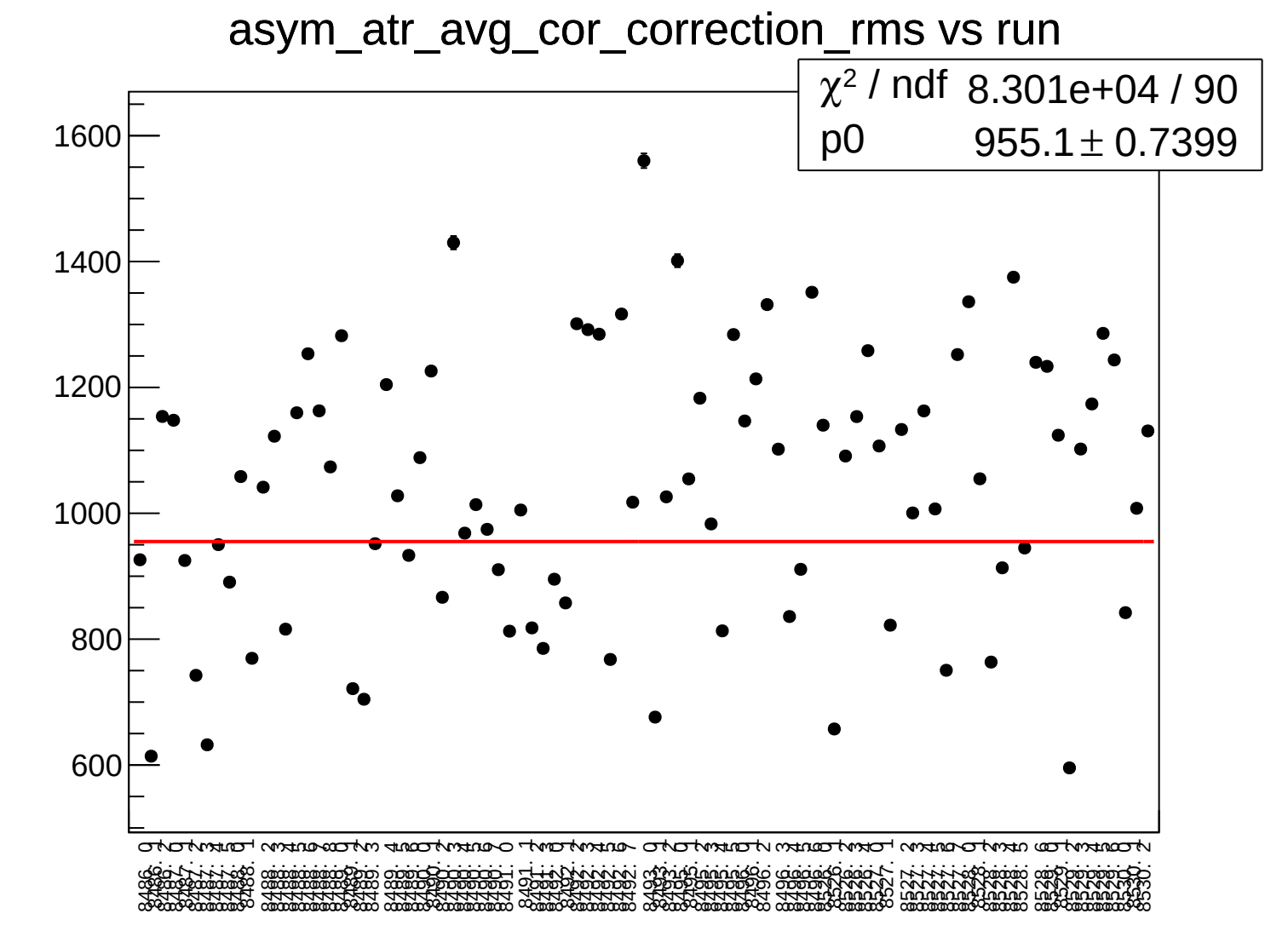

cor_asym_atr_avg_mean vs run
×10^3
χ² / ndf 80.89 / 90
p0 −2881 ± 2.141e+04
pull
Entries 91
Mean −210.1
Std Dev 0

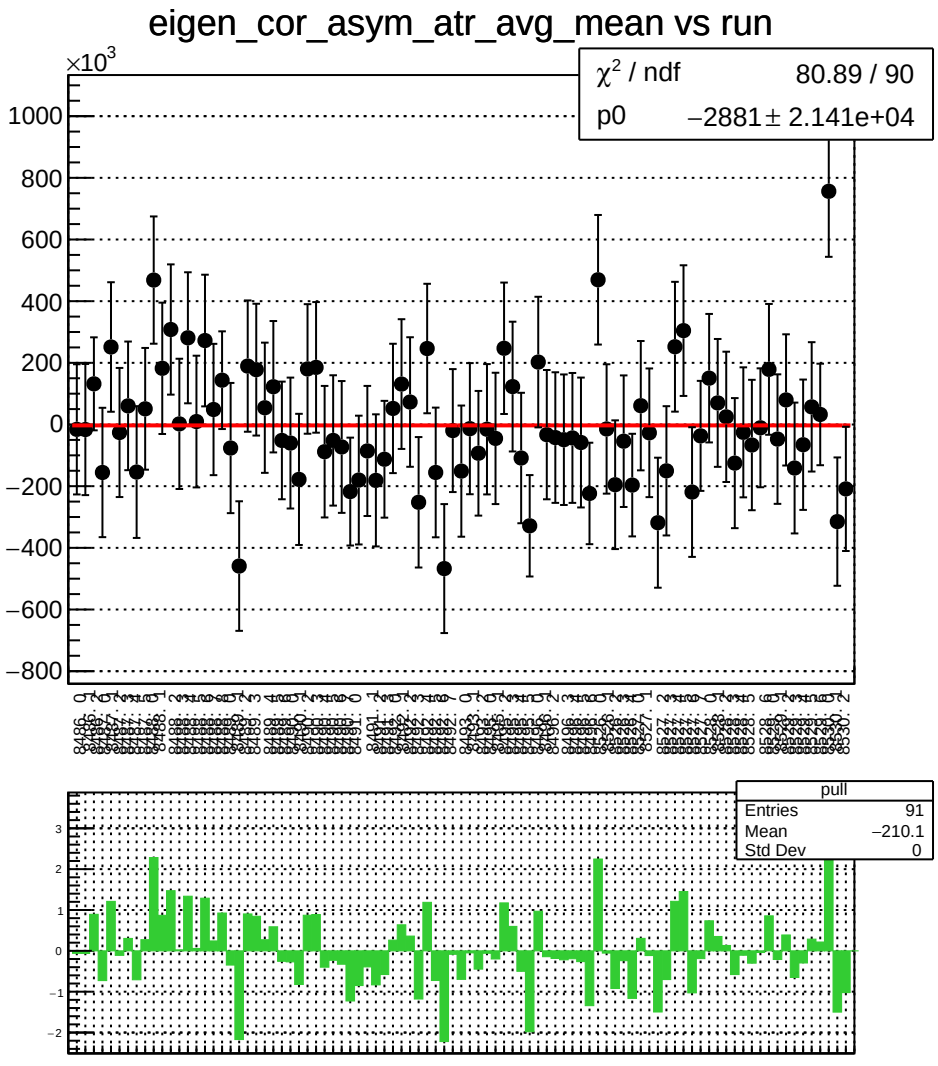

pull1D
Entries 91
Mean 0.01107
Std Dev 0.9428

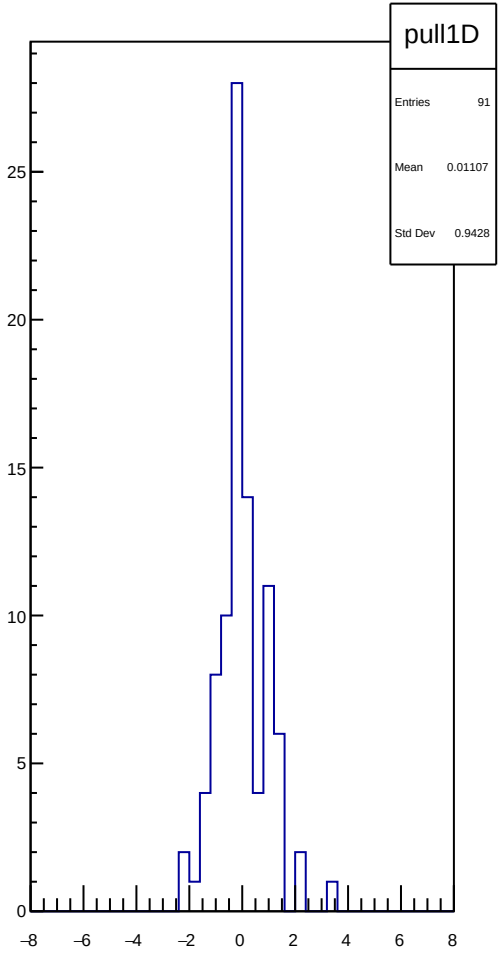

cor_asym_atr_avg_rms vs run
χ² / ndf 96.34 / 90
p0 2.002e+04 ± 15.14
20400
20200
20000
19800
19600
19400

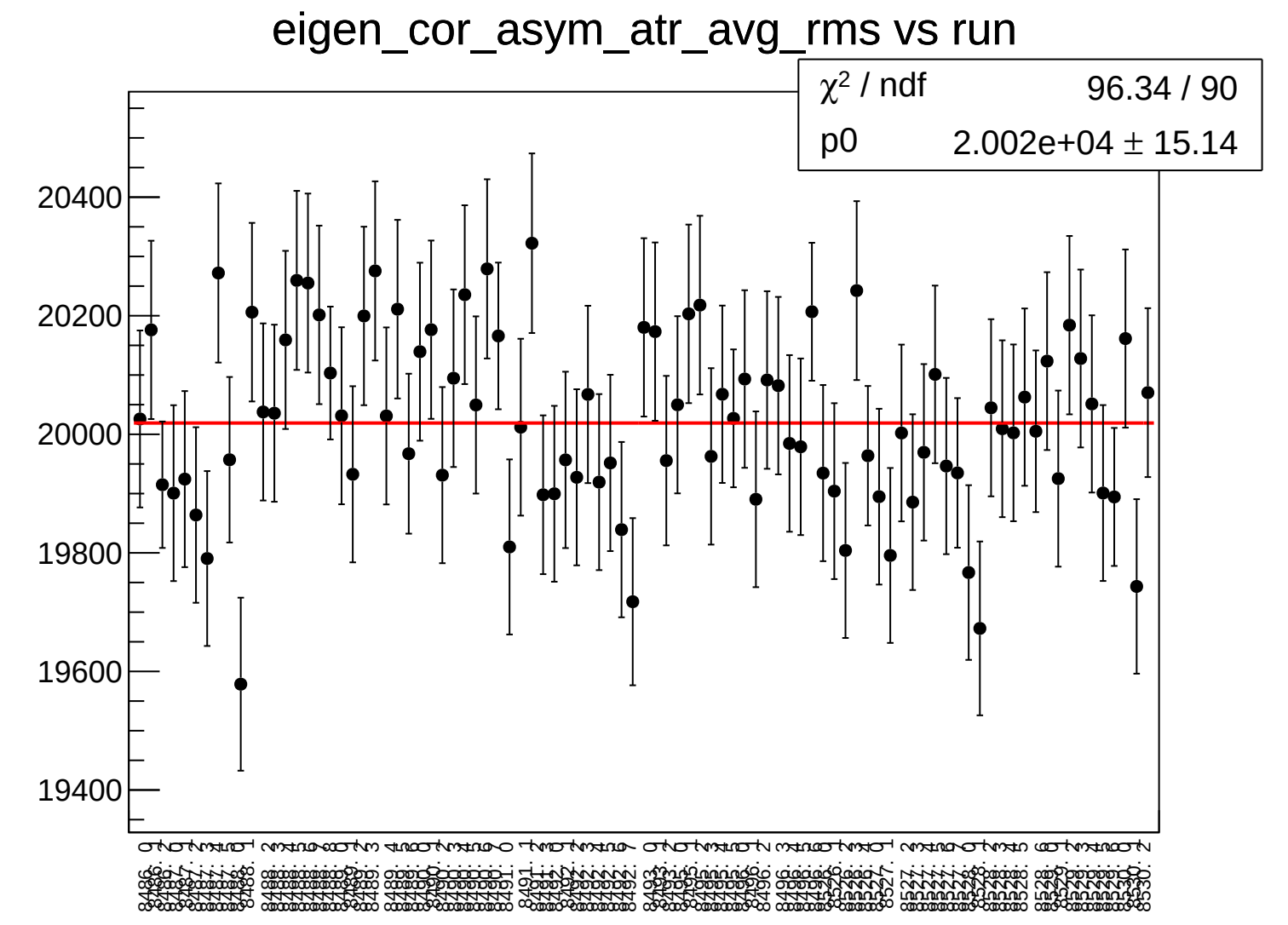

asym_atr_avg_cor_correction_mean vs run
χ² / ndf 99.55 / 90
p0 −91.59 ± 1046
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 18.87
Std Dev 0
2
1
0
−1
−2
−3

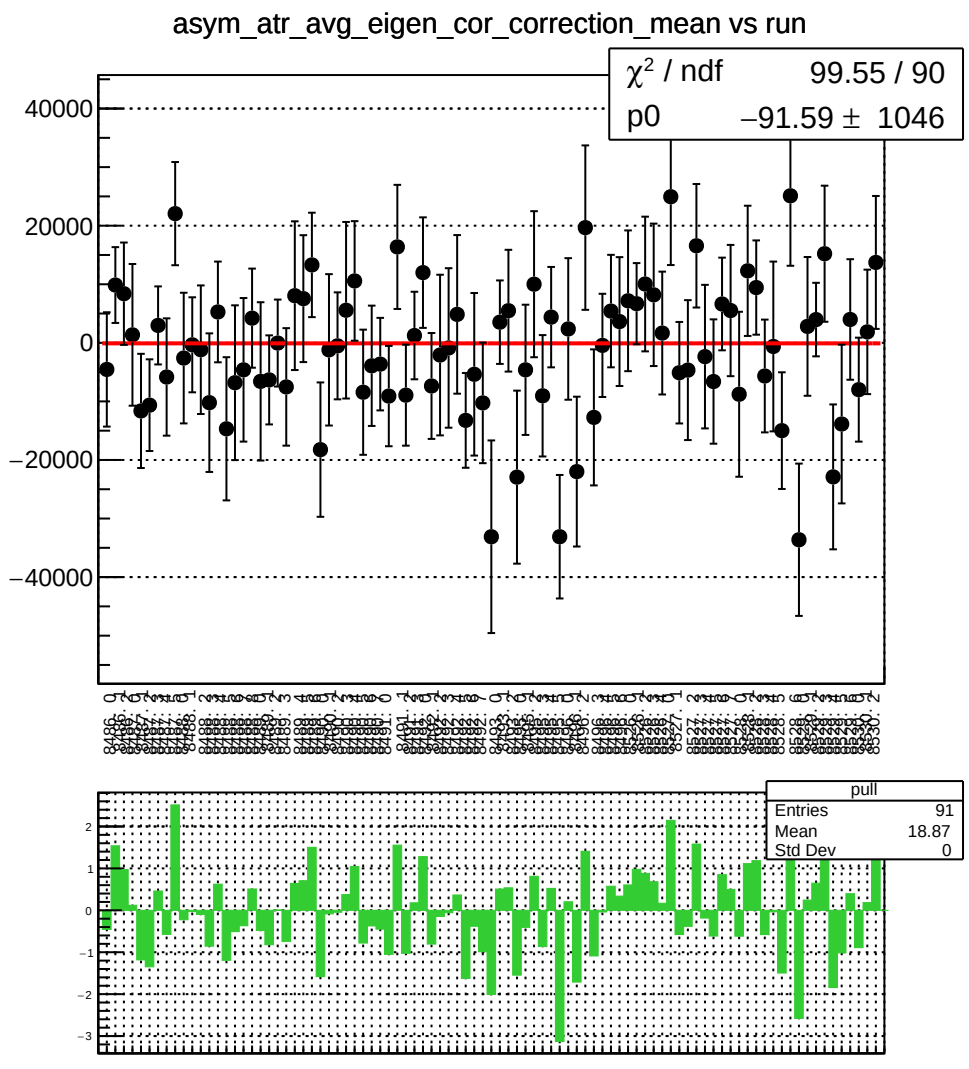

pull1D
Entries 91
Mean −0.04163
Std Dev 1.045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

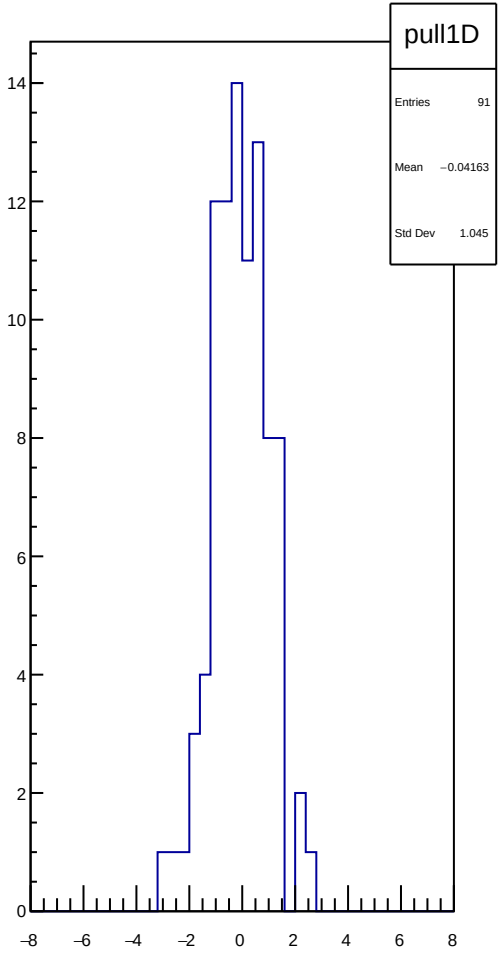

asym_atr_avg_cor_correction_rms vs run
χ² / ndf 8.301e+04 / 90
p0 955.1 ± 0.7399
1600
1400
1200
1000
800
600

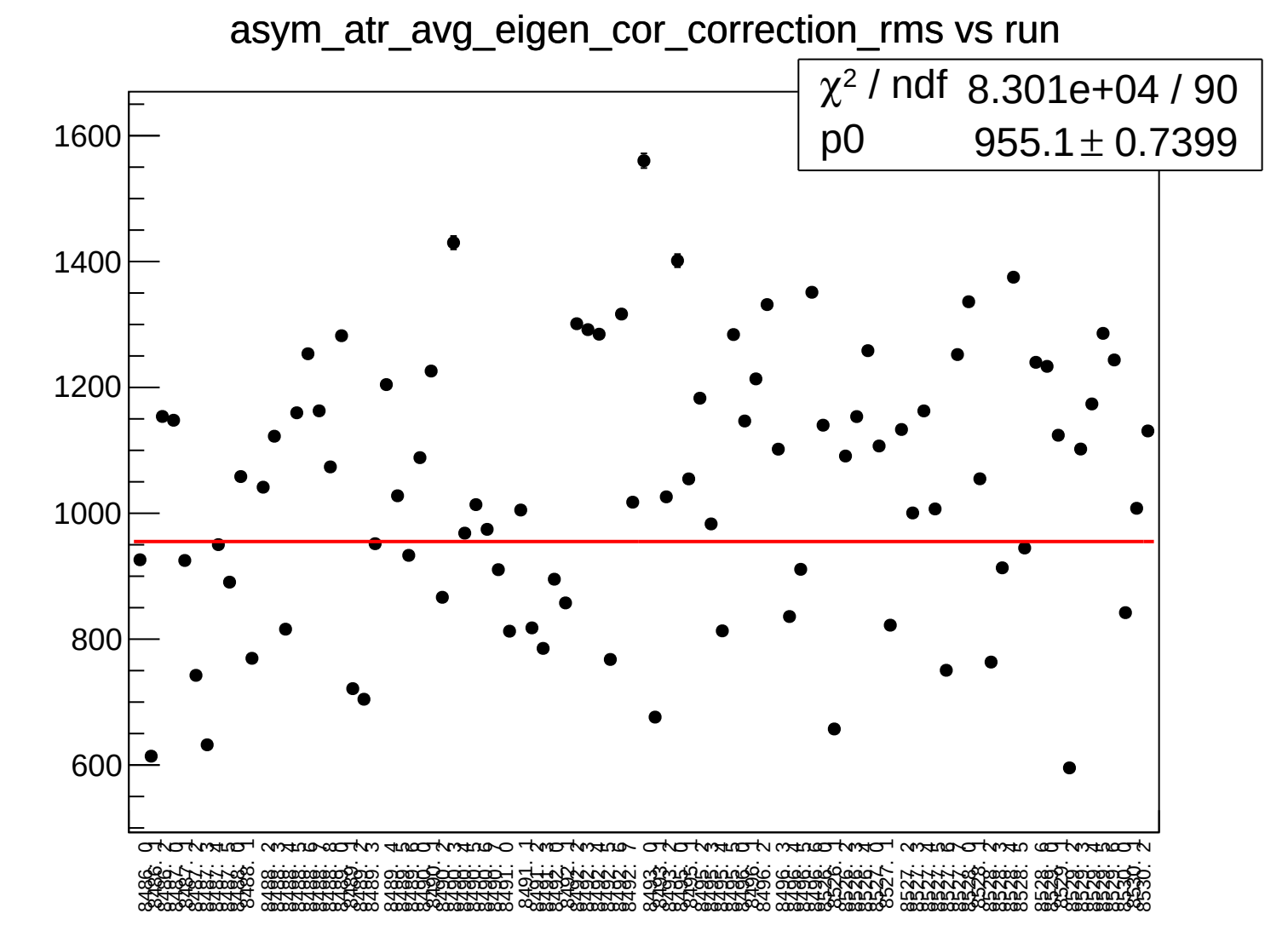

eigen_cor_asym_atr_avg_mean vs run
×10^3
χ² / ndf 80.89 / 90
p0 −2881 ± 2.141e+04
pull
Entries 91
Mean −210.1
Std Dev 0

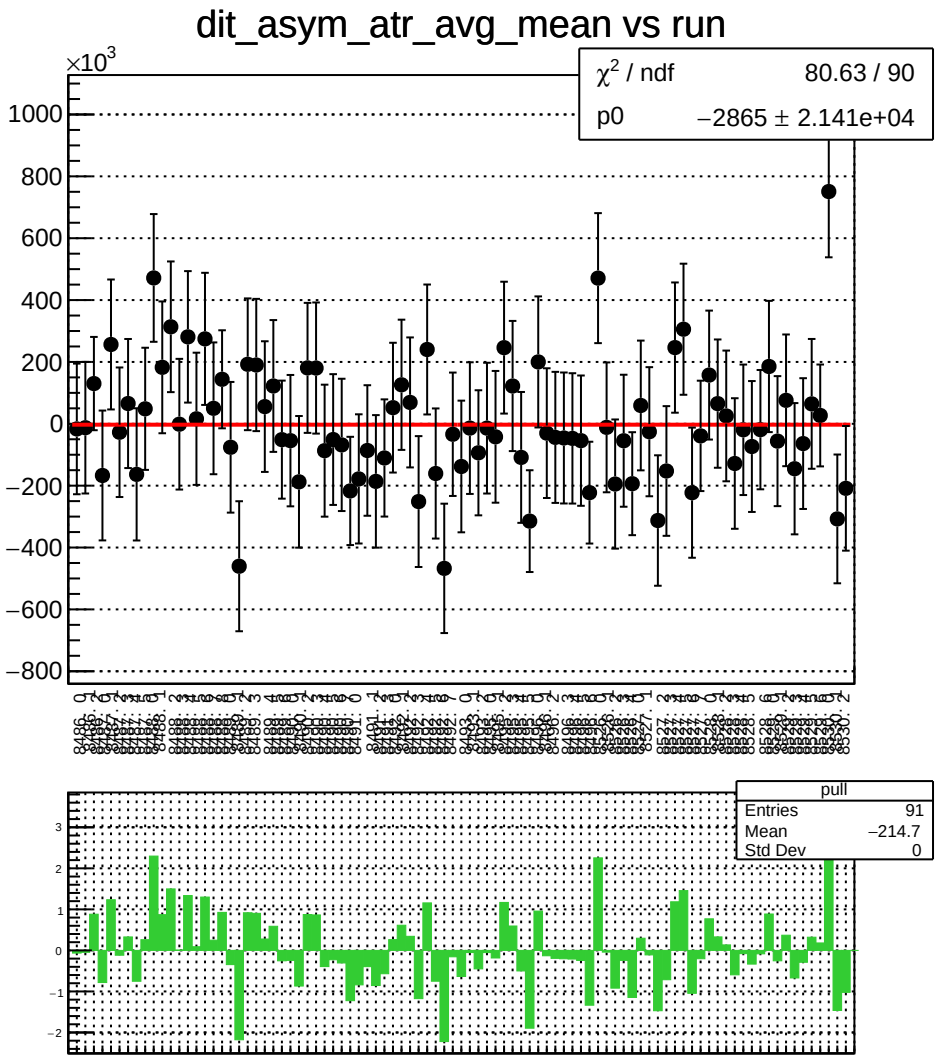

pull1D
Entries 91
Mean 0.01107
Std Dev 0.9428

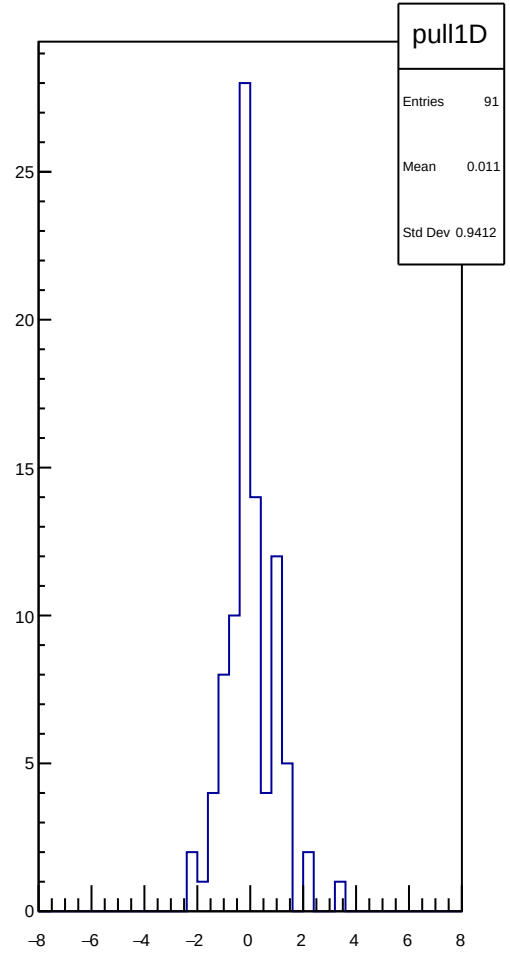

eigen_cor_asym_atr_avg_rms vs run
χ² / ndf 96.34 / 90
p0 2.002e+04 ± 15.14
20400
20200
20000
19800
19600
19400

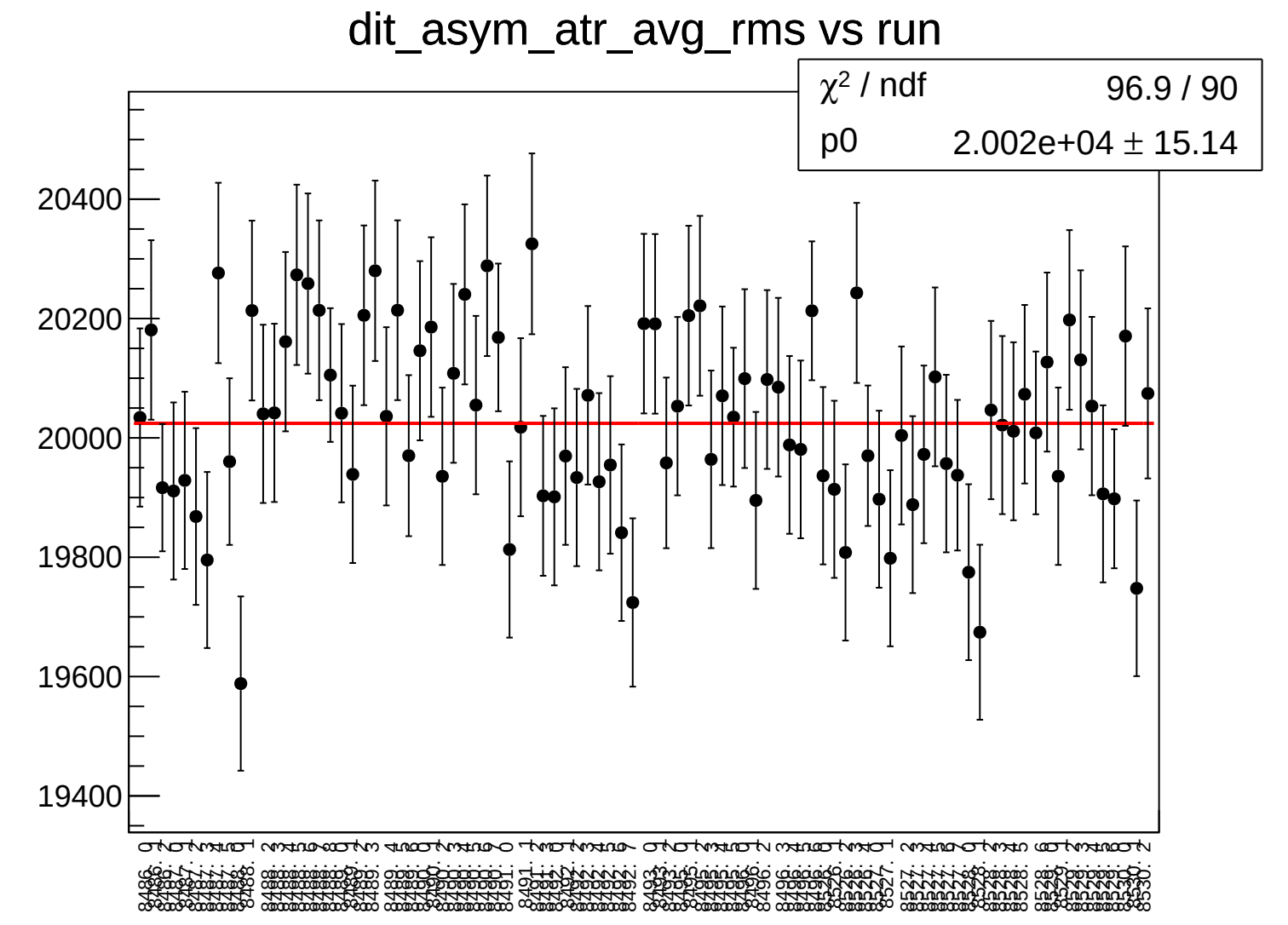

asym_atr_avg_eigen_cor_correction_mean vs run
χ² / ndf 99.55 / 90
p0 −91.59 ± 1046
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 18.87
Std Dev 0
2
1
0
−1
−2
−3

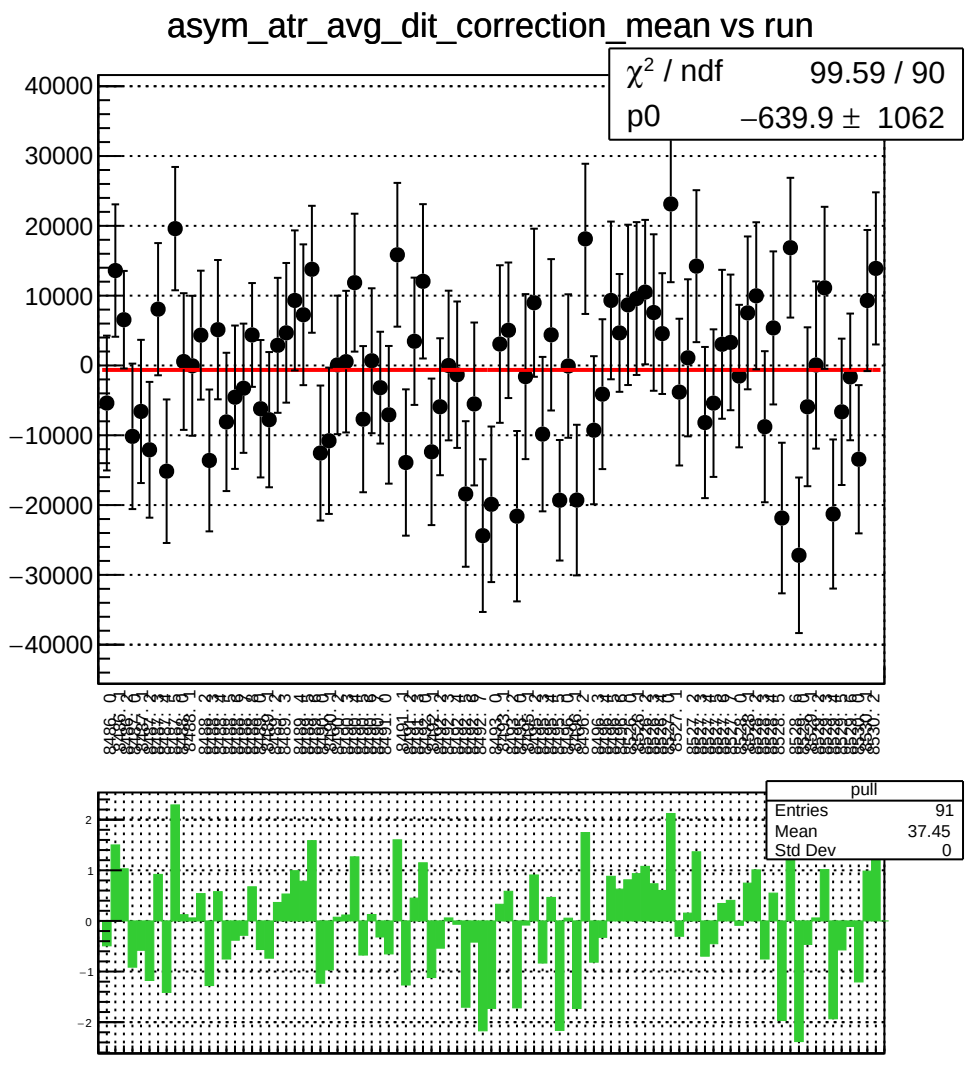

pull1D
Entries 91
Mean −0.04163
Std Dev 1.045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

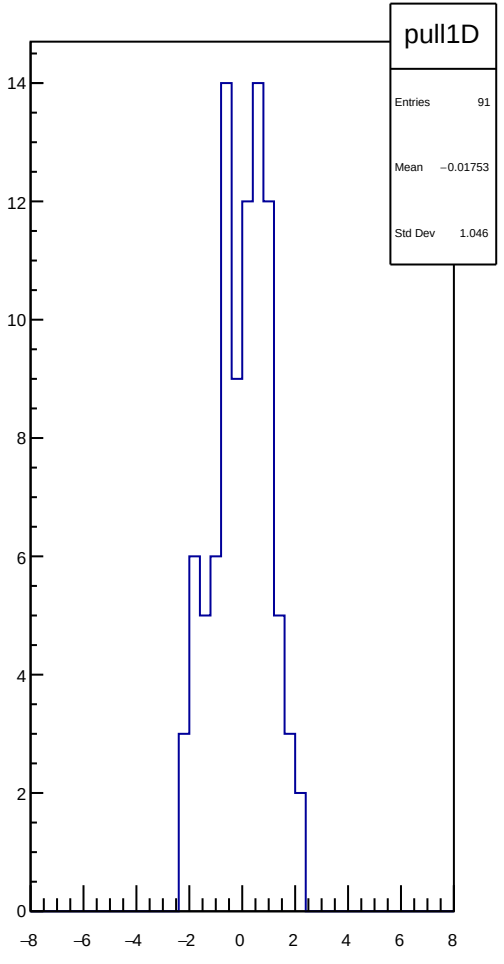

asym_atr_avg_eigen_cor_correction_rms vs run
χ² / ndf 8.301e+04 / 90
p0 955.1 ± 0.7399
1600
1400
1200
1000
800
600

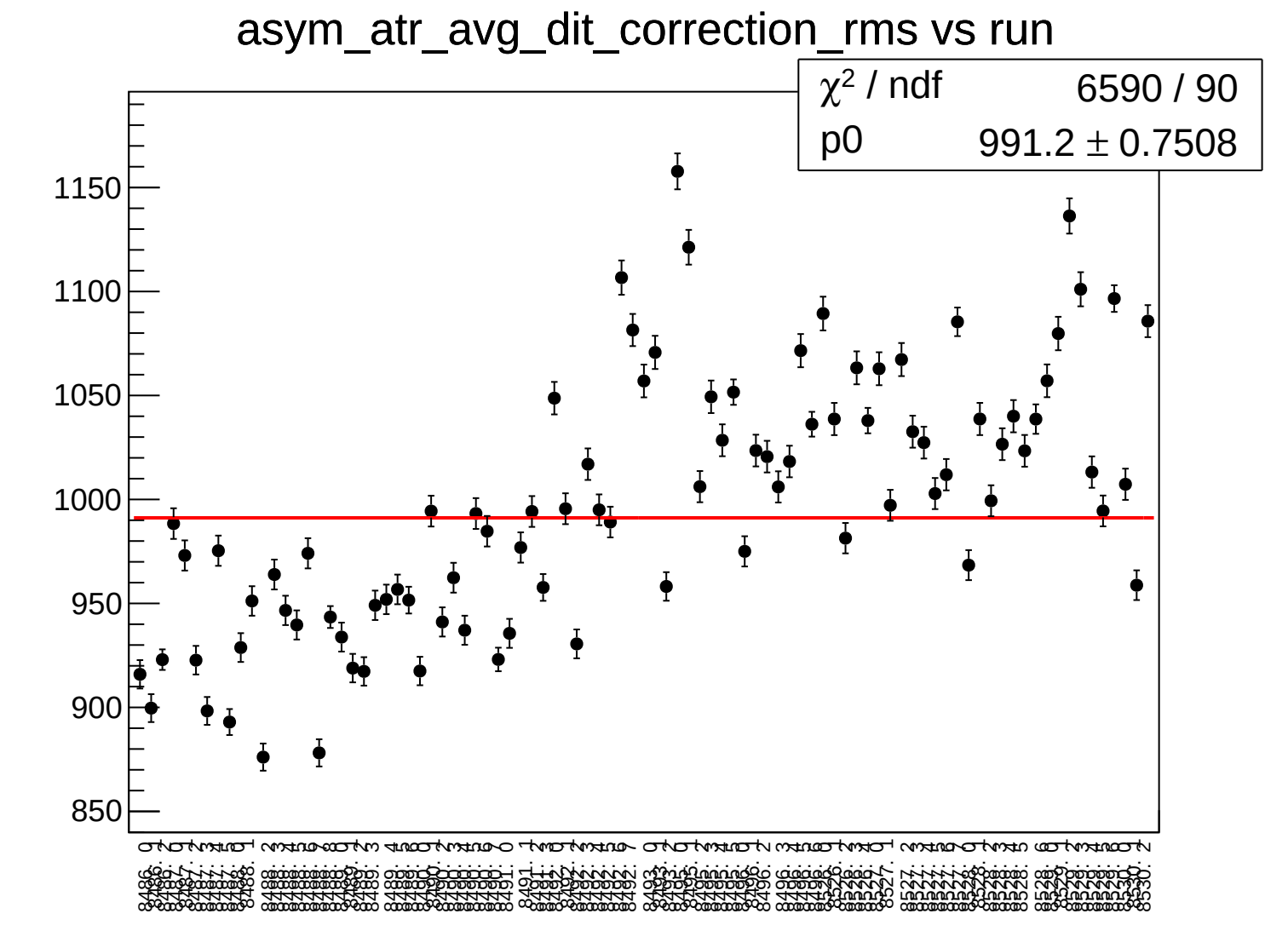

dit_asym_atr_avg_mean vs run
×10^3
χ² / ndf 80.63 / 90
p0 −2865 ± 2.141e+04
pull
Entries 91
Mean −214.7
Std Dev 0

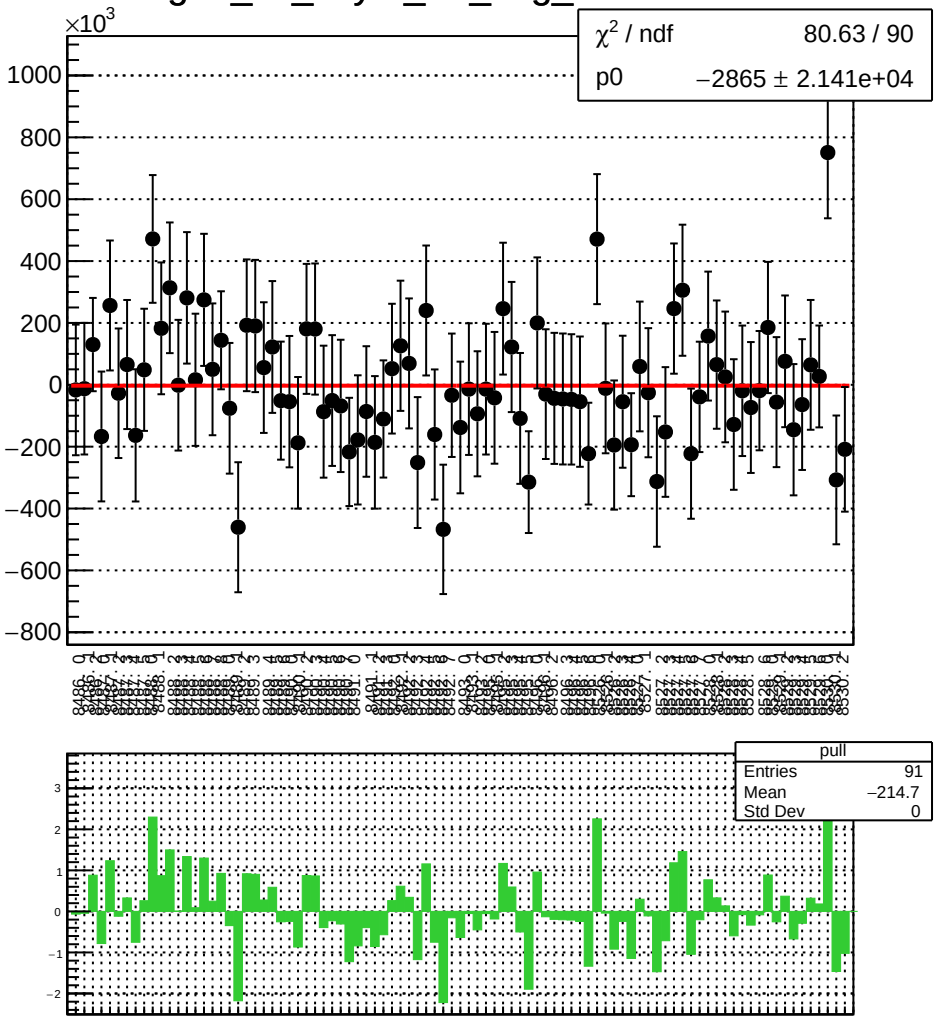

pull1D
Entries 91
Mean 0.011
Std Dev 0.9412

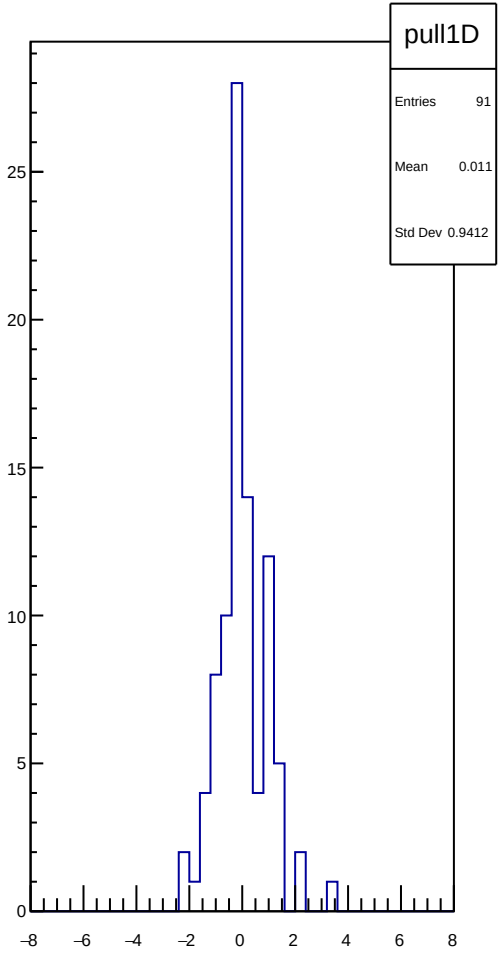

dit_asym_atr_avg_rms vs run
χ² / ndf 96.9 / 90
p0 2.002e+04 ± 15.14
20400
20200
20000
19800
19600
19400

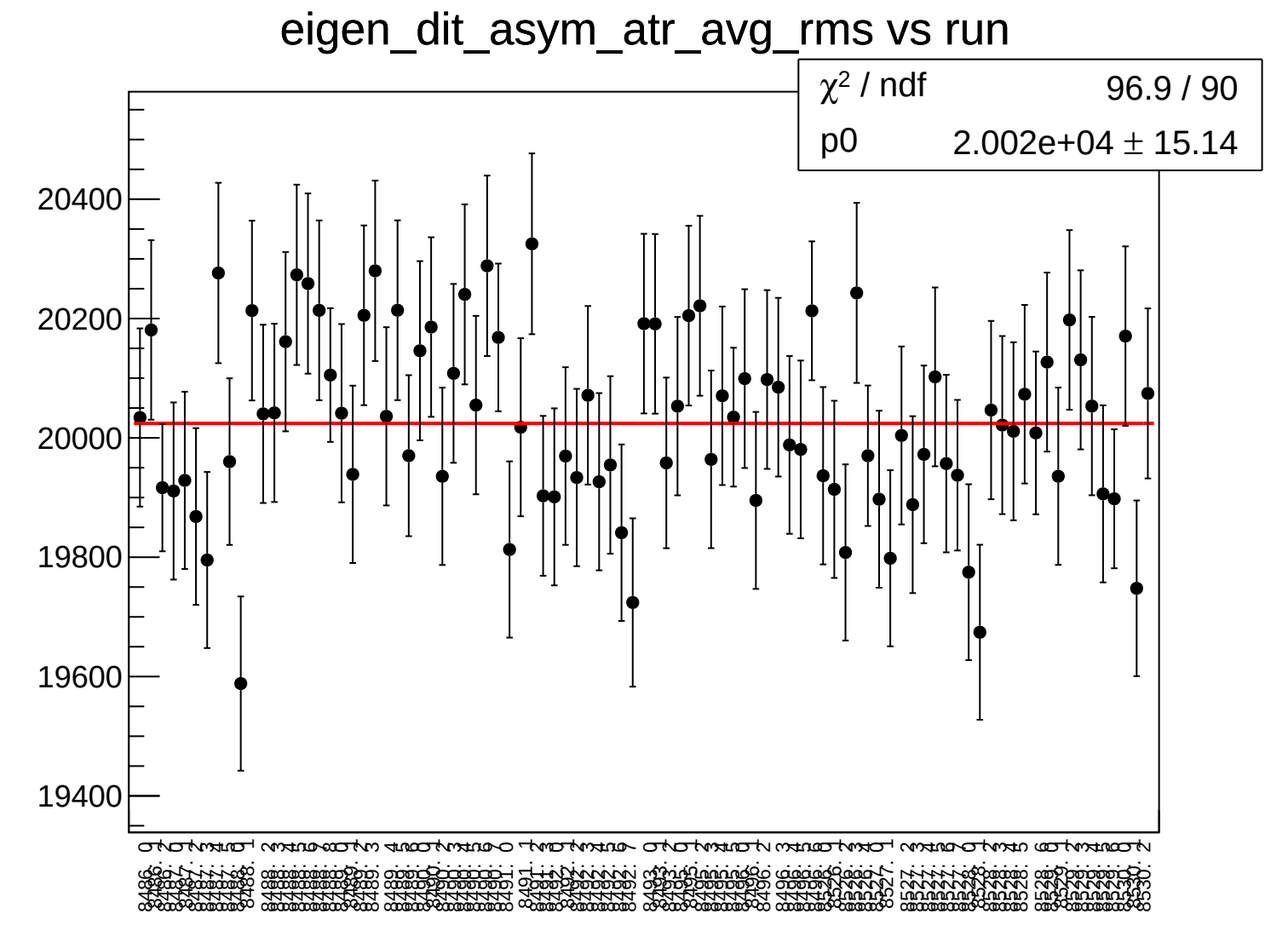

asym_atr_avg_dit_correction_mean vs run
χ² / ndf 99.59 / 90
p0 −639.9 ± 1062
pull
Entries 91
Mean 37.45
Std Dev 0

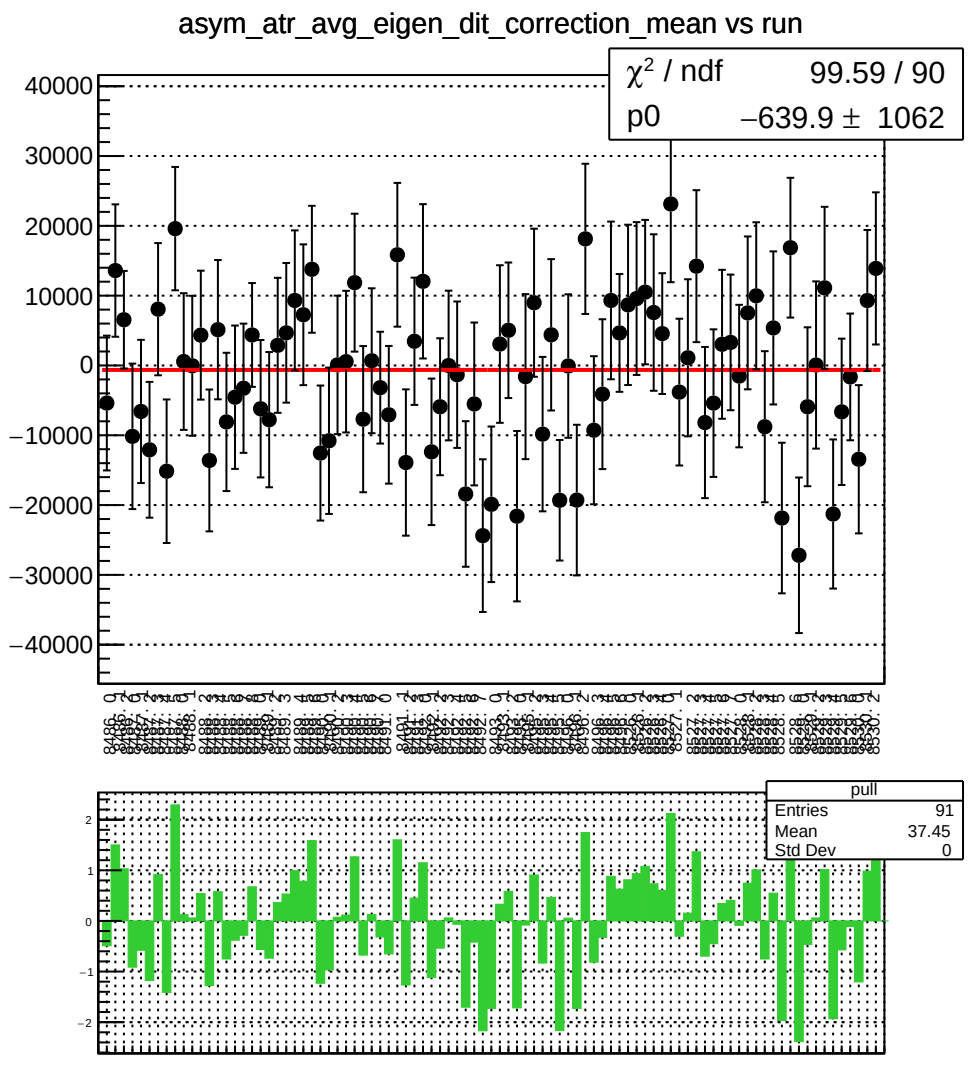

pull1D
Entries 91
Mean −0.01753
Std Dev 1.046

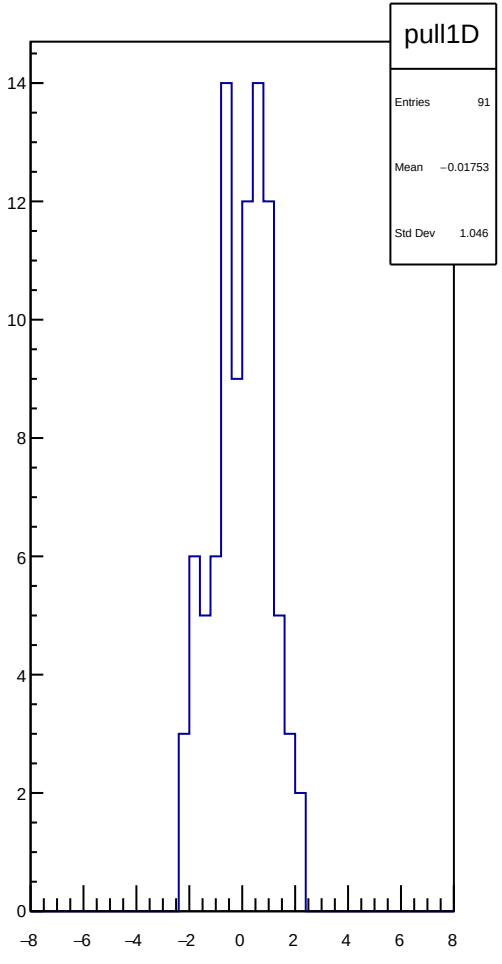

asym_atr_avg_dit_correction_rms vs run
χ² / ndf 6590 / 90
p0 991.2 ± 0.7508
1150
1100
1050
1000
950
900
850

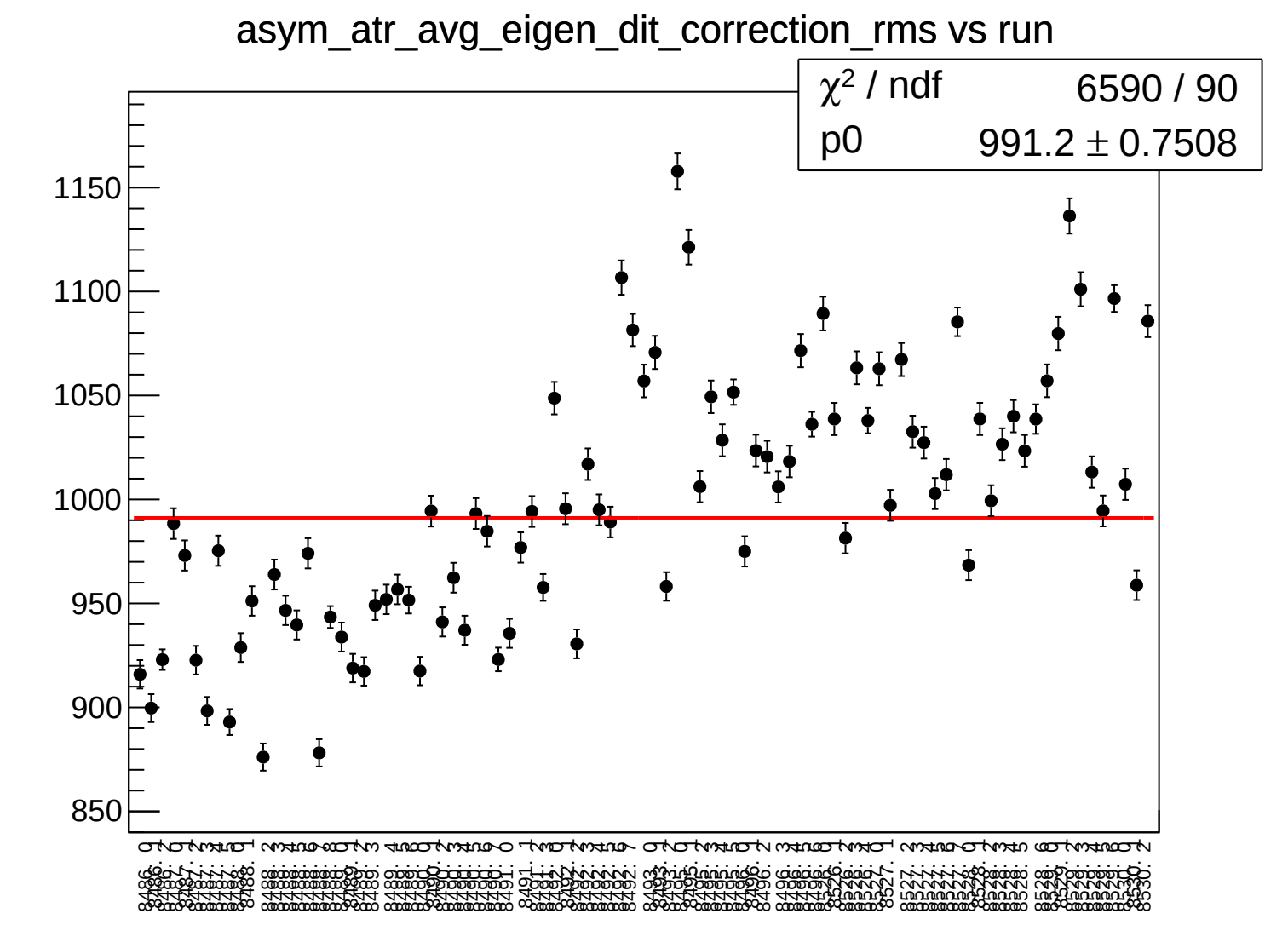

eigen_dit_asym_atr_avg_mean vs run
×10^3
χ² / ndf 80.63 / 90
p0 −2865 ± 2.141e+04
pull
Entries 91
Mean −214.7
Std Dev 0

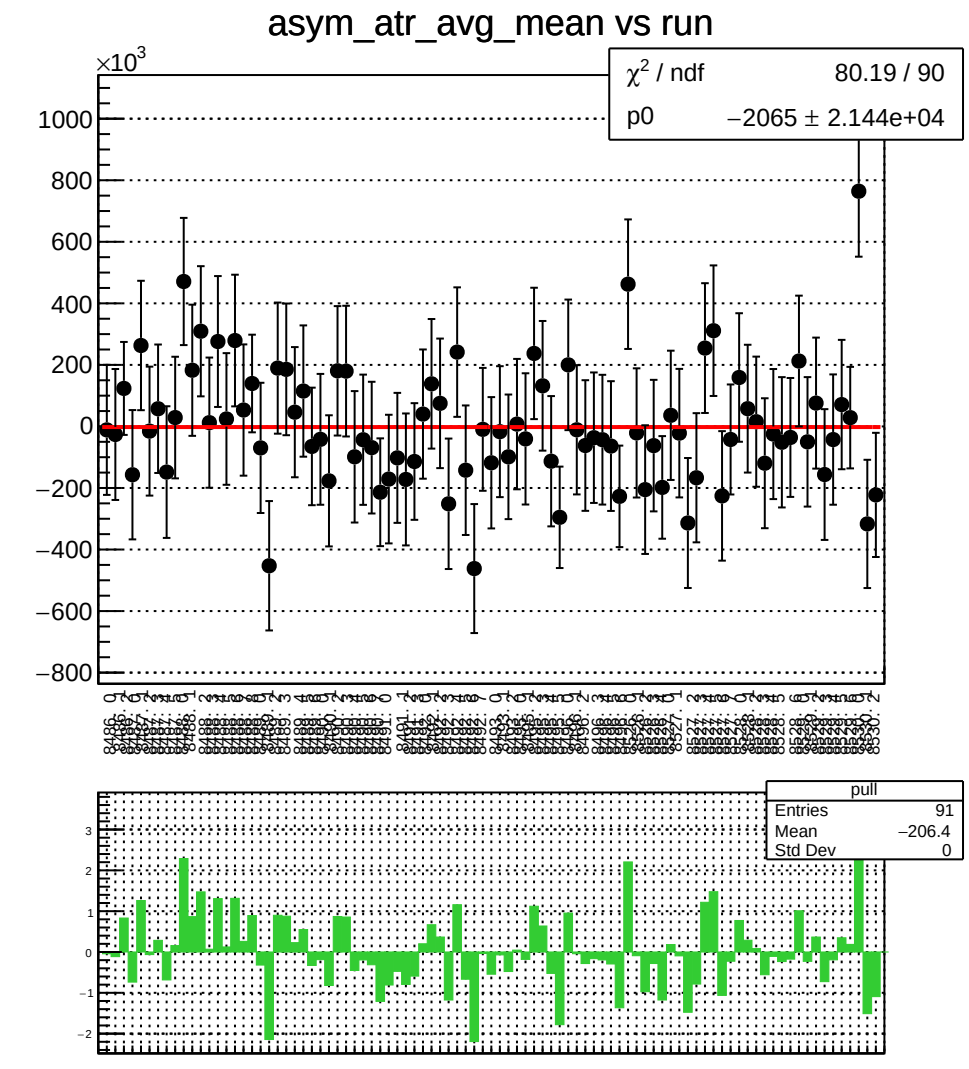

pull1D
Entries 91
Mean 0.011
Std Dev 0.9412

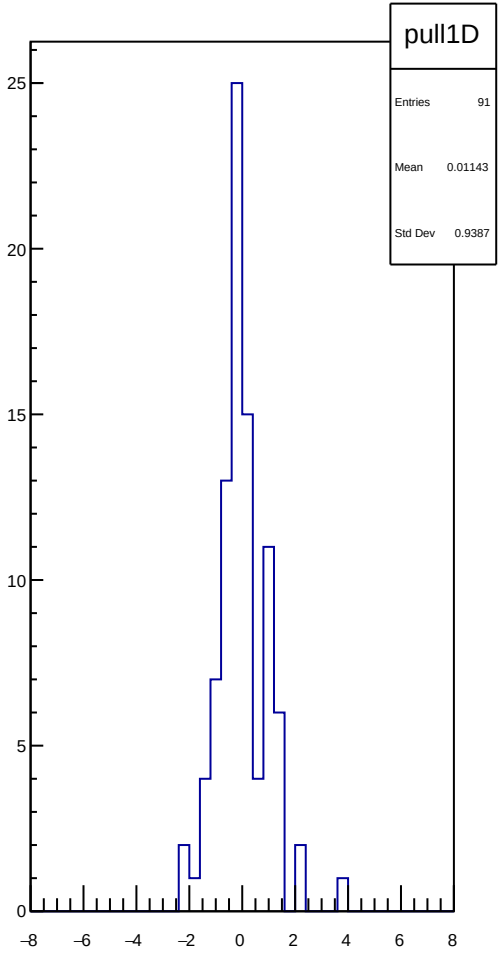

eigen_dit_asym_atr_avg_rms vs run
χ² / ndf 96.9 / 90
p0 2.002e+04 ± 15.14
20400
20200
20000
19800
19600
19400

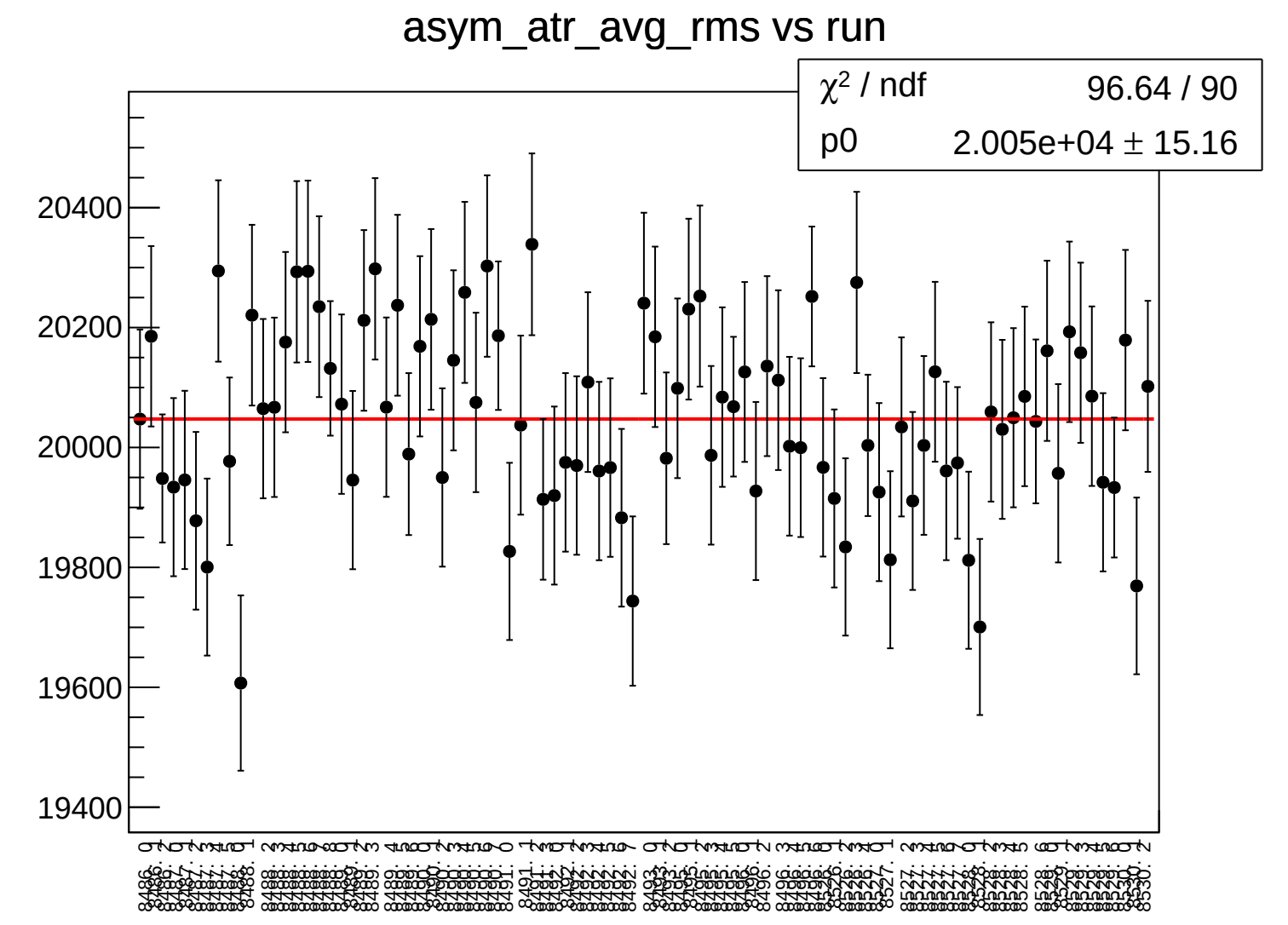

asym_atr_avg_eigen_dit_correction_mean vs run
χ² / ndf 99.59 / 90
p0 −639.9 ± 1062
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean 37.45
Std Dev 0
2
1
0
−1
−2

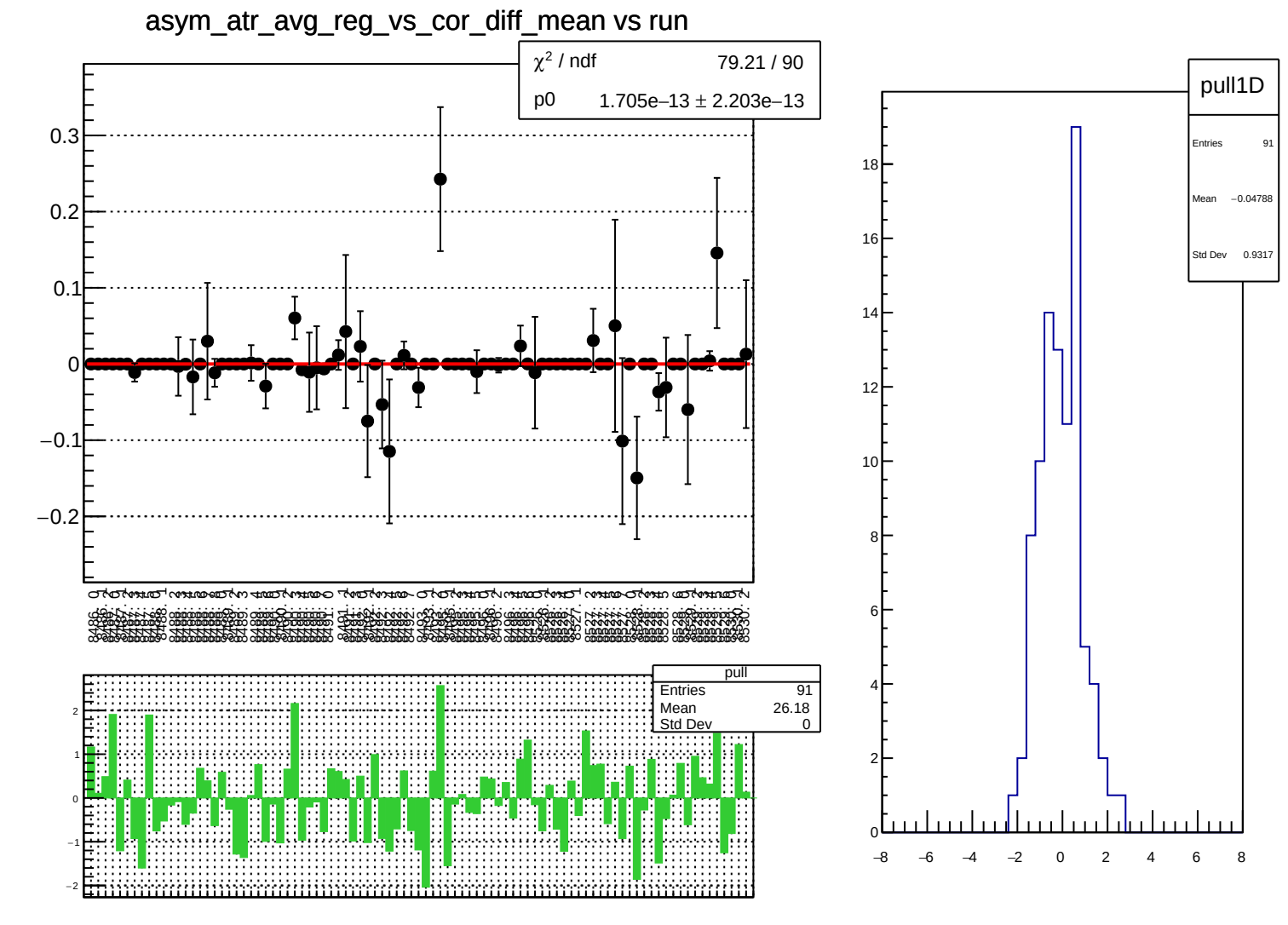

pull1D
Entries 91
Mean −0.01753
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

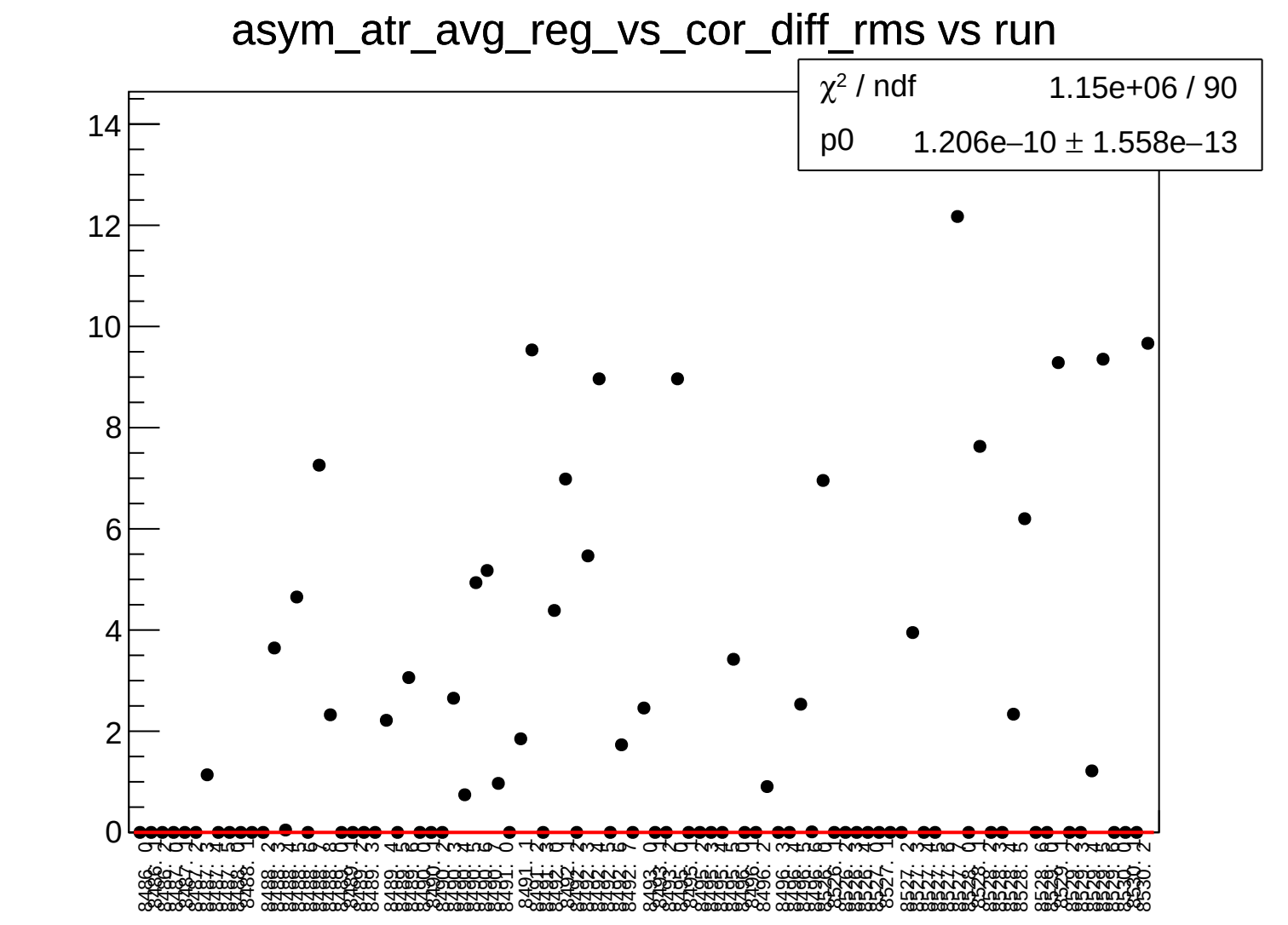

asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 6590 / 90
p0 991.2 ± 0.7508
1150
1100
1050
1000
950
900
850

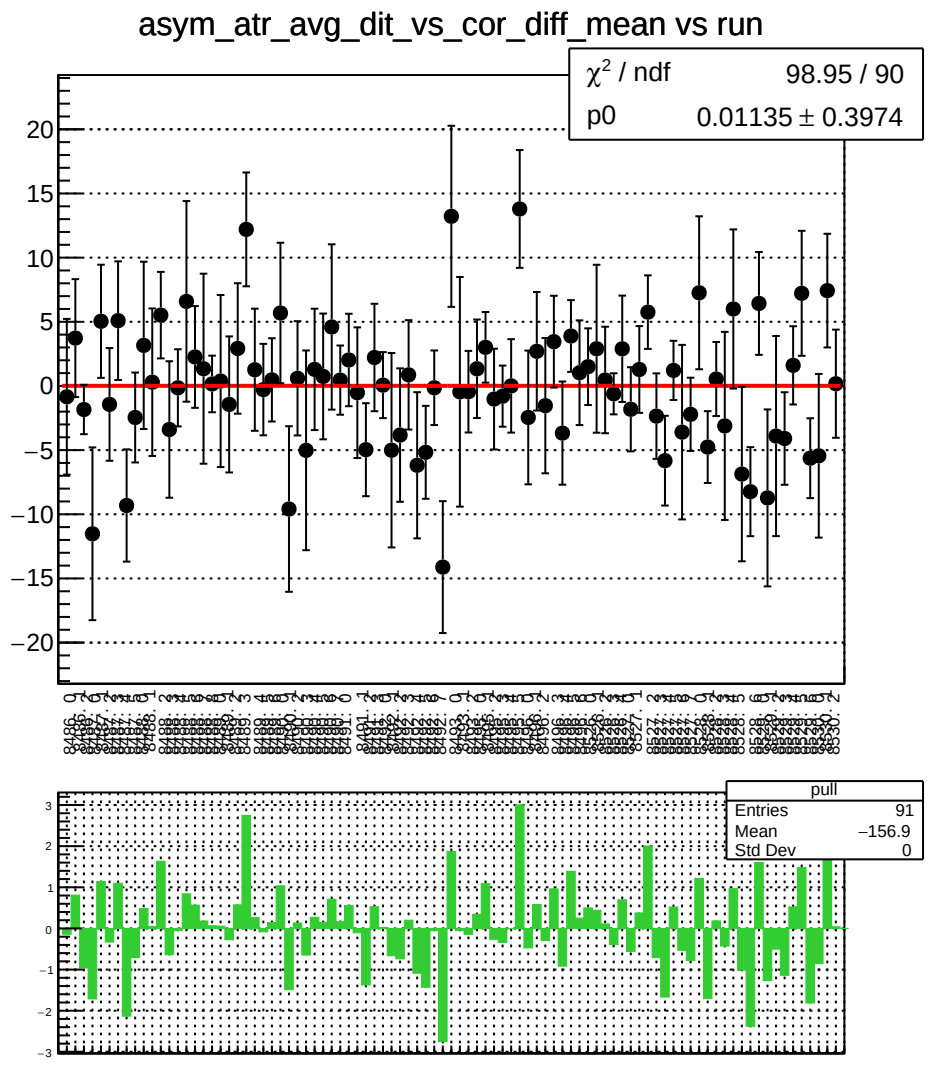

asym_atr_avg_mean vs run
×10^3
χ² / ndf 80.19 / 90
p0 −2065 ± 2.144e+04
pull
Entries 91
Mean −206.4
Std Dev 0

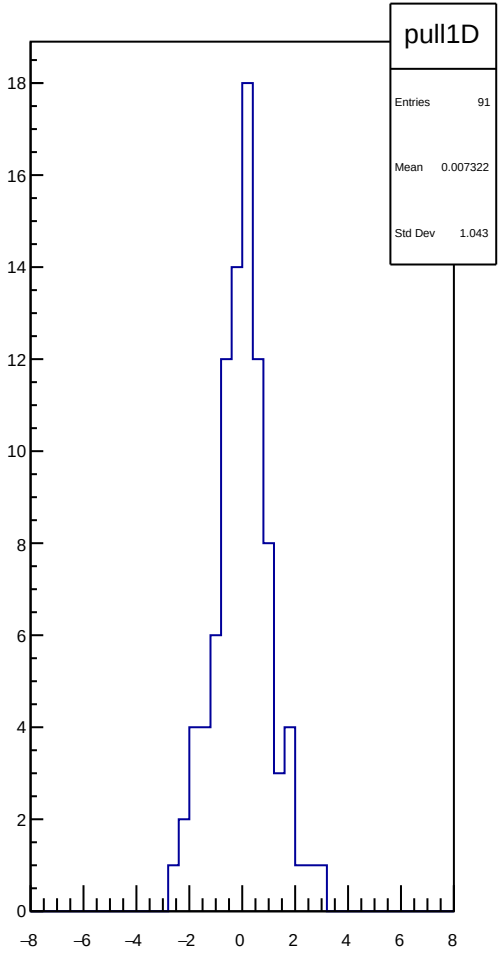

pull1D
Entries 91
Mean 0.01143
Std Dev 0.9387

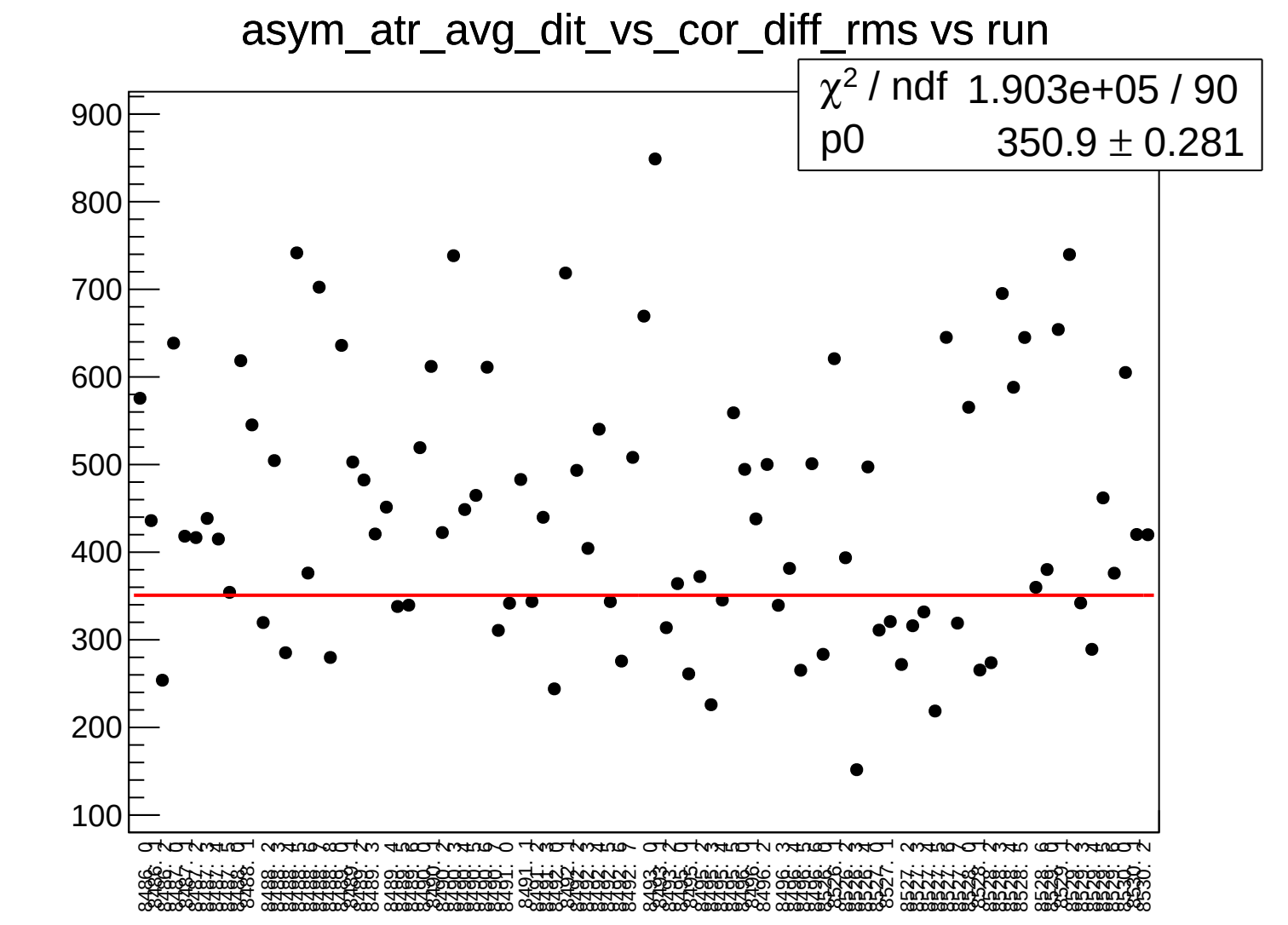

asym_atr_avg_rms vs run
χ² / ndf 96.64 / 90
p0 2.005e+04 ± 15.16
20400
20200
20000
19800
19600
19400

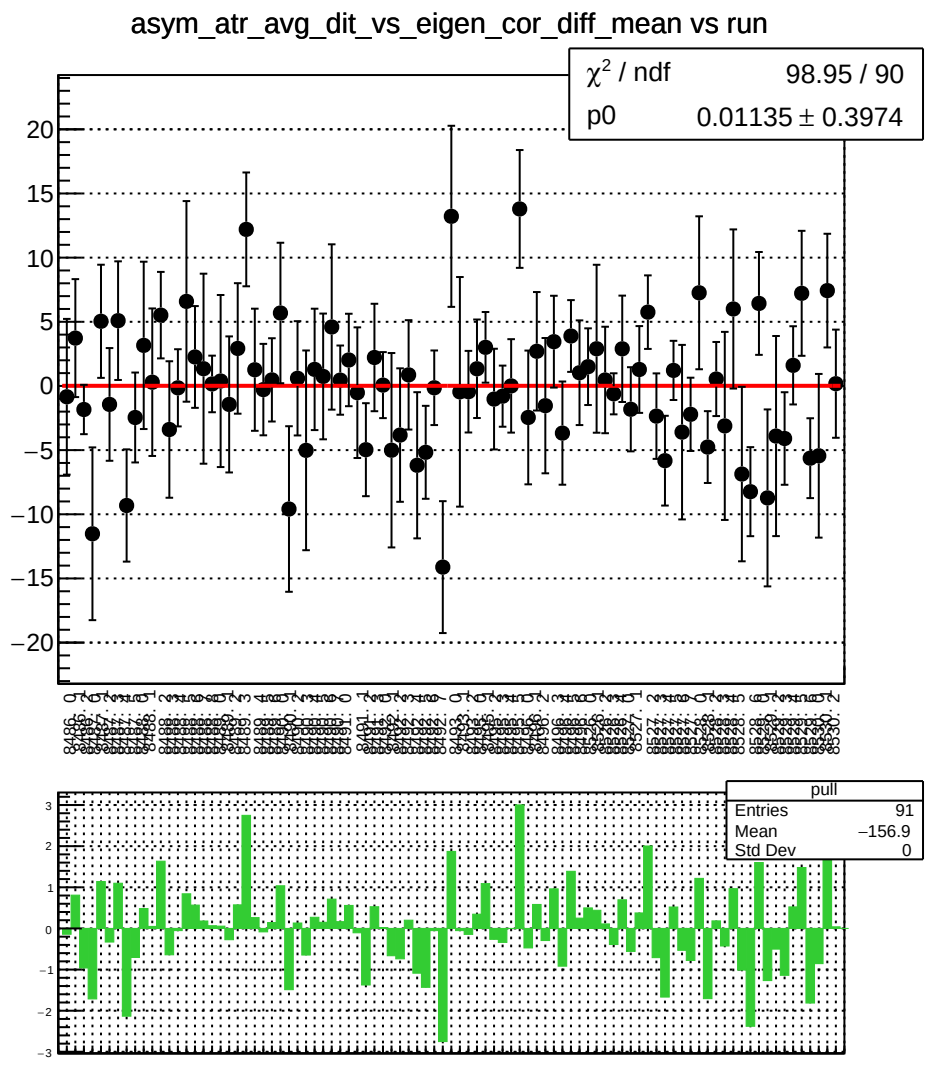

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 79.21 / 90
p0 1.705e−13 ± 2.203e−13
pull
Entries 91
Mean 26.18
Std Dev 0
pull1D
Entries 91
Mean −0.04788
Std Dev 0.9317

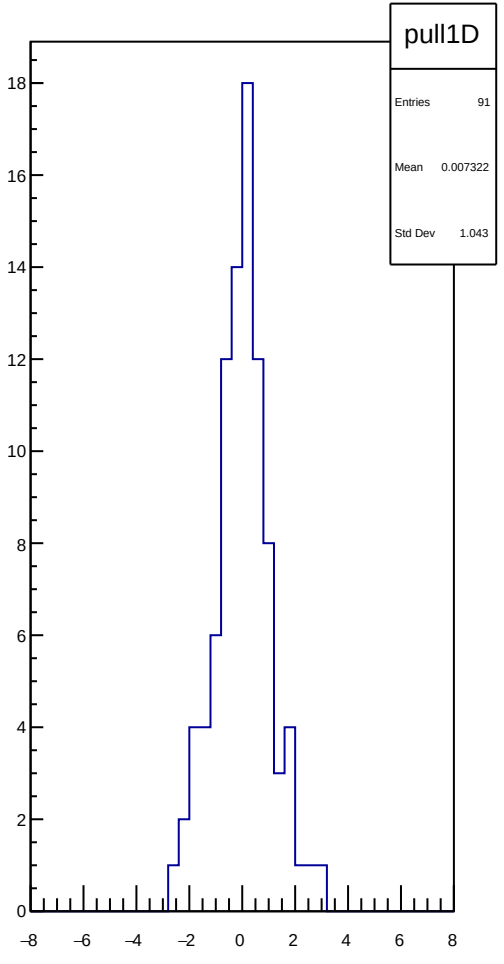

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.15e+06 / 90
p0 1.206e−10 ± 1.558e−13
0
2
4
6
8
10
12
14

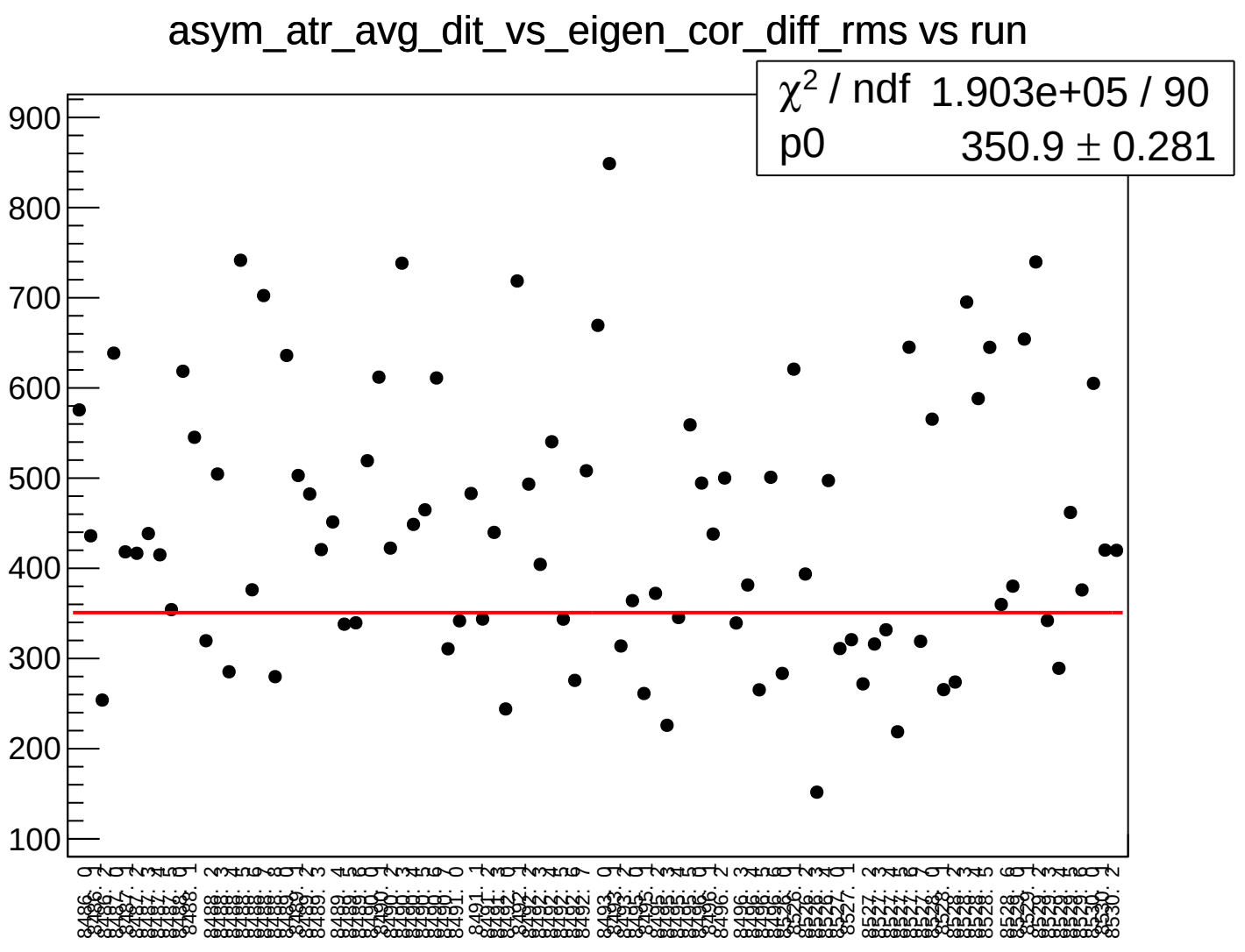

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 98.95 / 90
p0 0.01135 ± 0.3974
pull
Entries 91
Mean −156.9
Std Dev 0

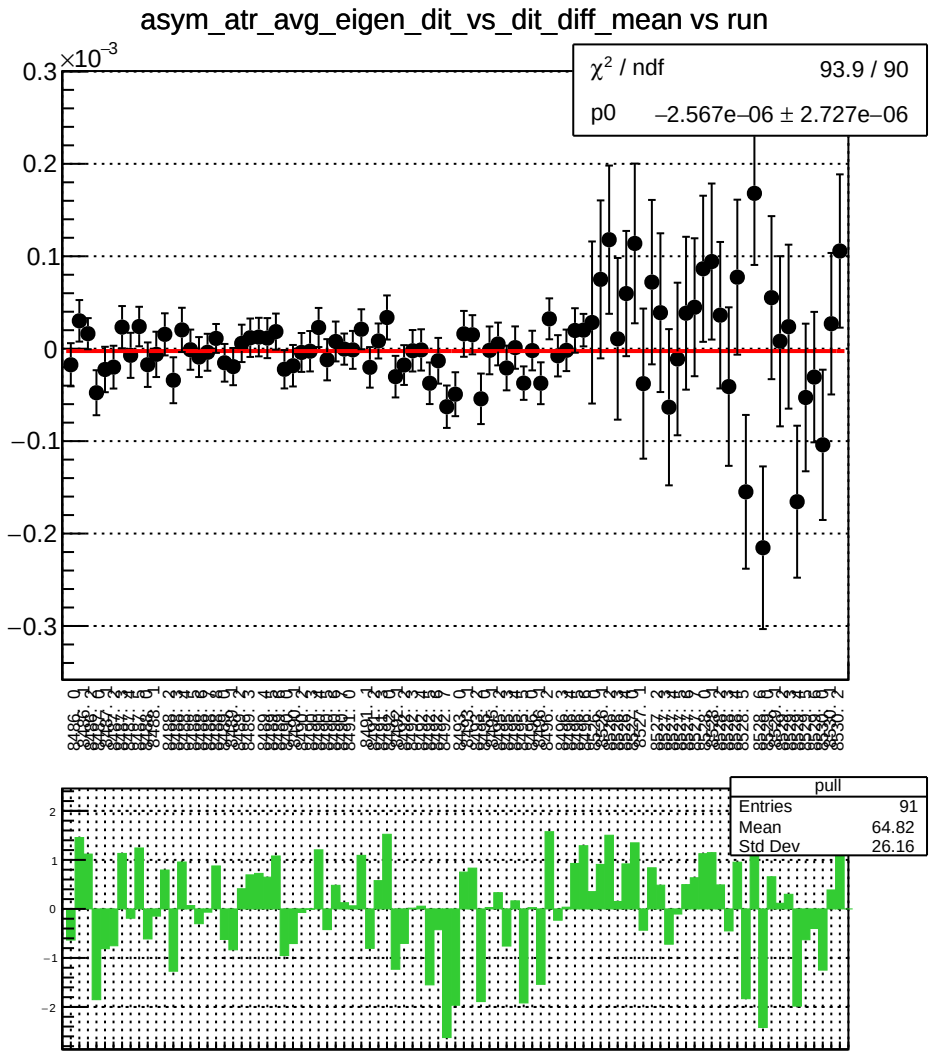

pull1D
Entries 91
Mean 0.007322
Std Dev 1.043

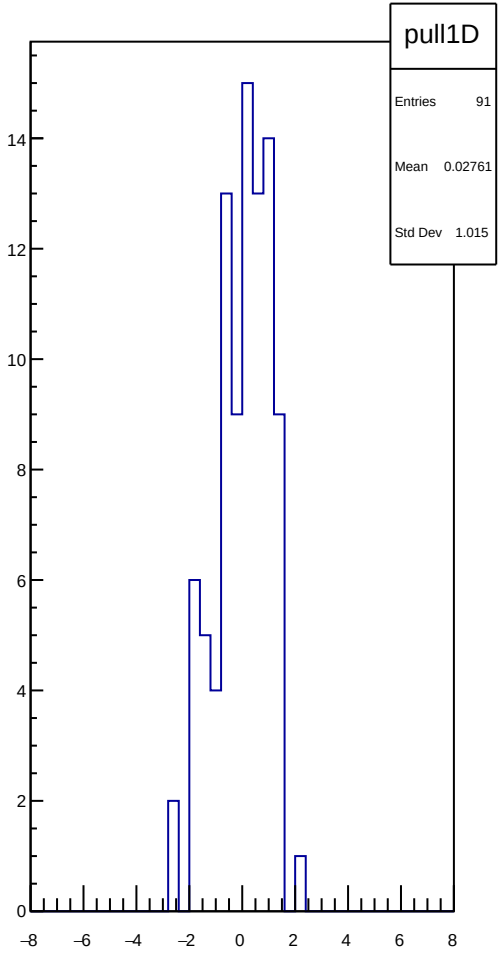

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.903e+05 / 90
p0 350.9 ± 0.281
900
800
700
600
500
400
300
200
100

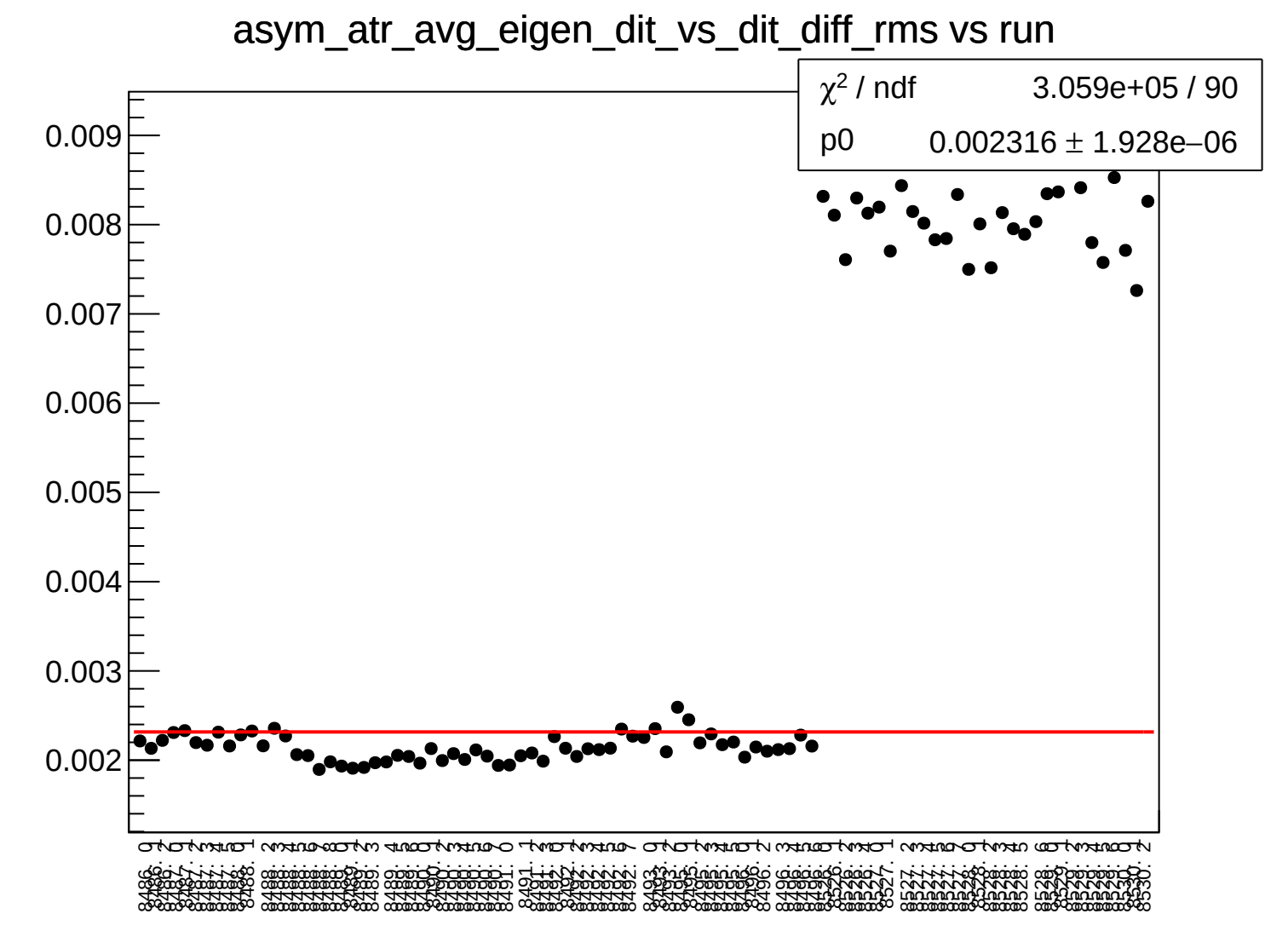

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.95 / 90
p0 0.01135 ± 0.3974
pull
Entries 91
Mean −156.9
Std Dev 0

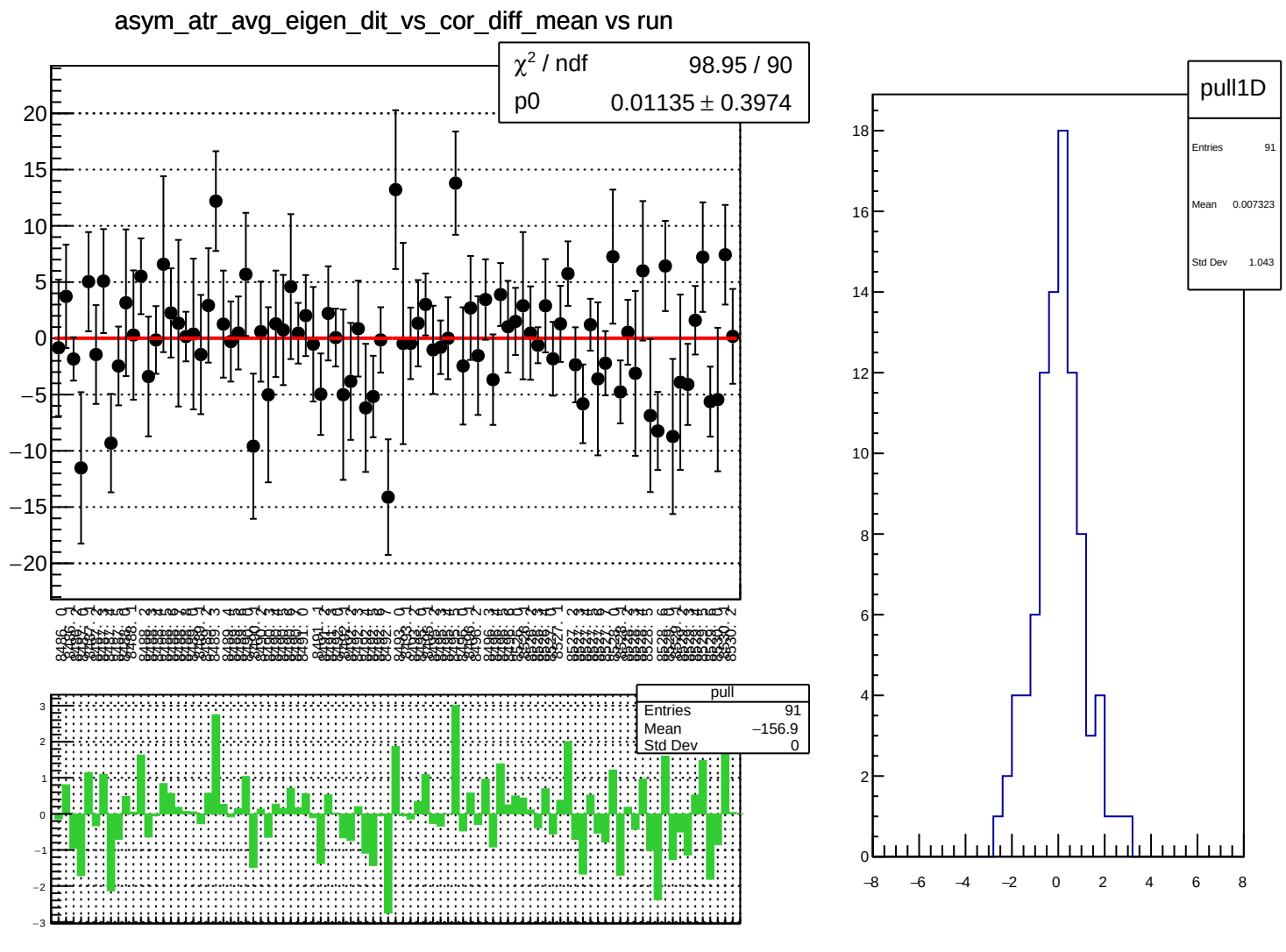

pull1D
Entries 91
Mean 0.007322
Std Dev 1.043

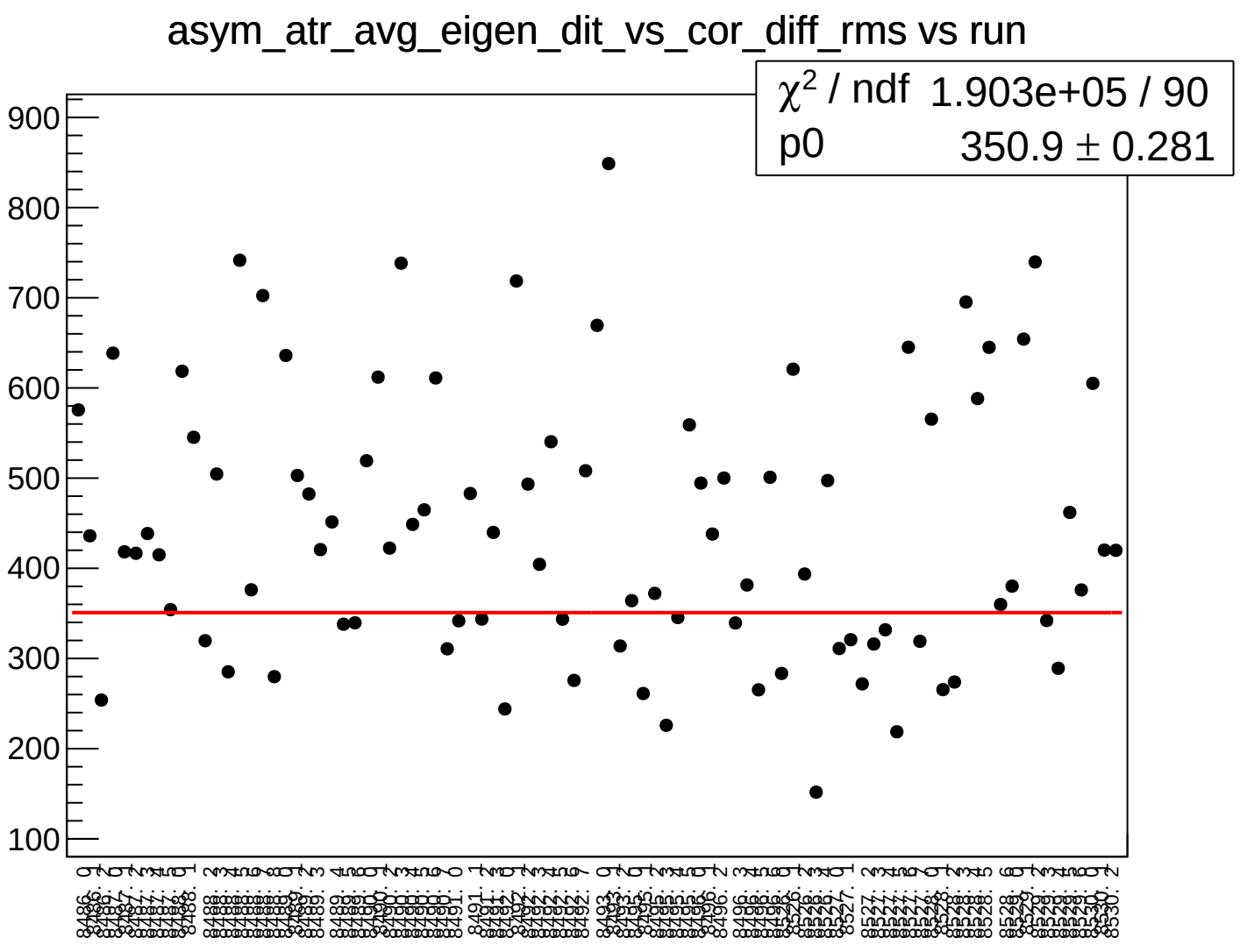

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.903e+05 / 90
p0 350.9 ± 0.281
900
800
700
600
500
400
300
200
100

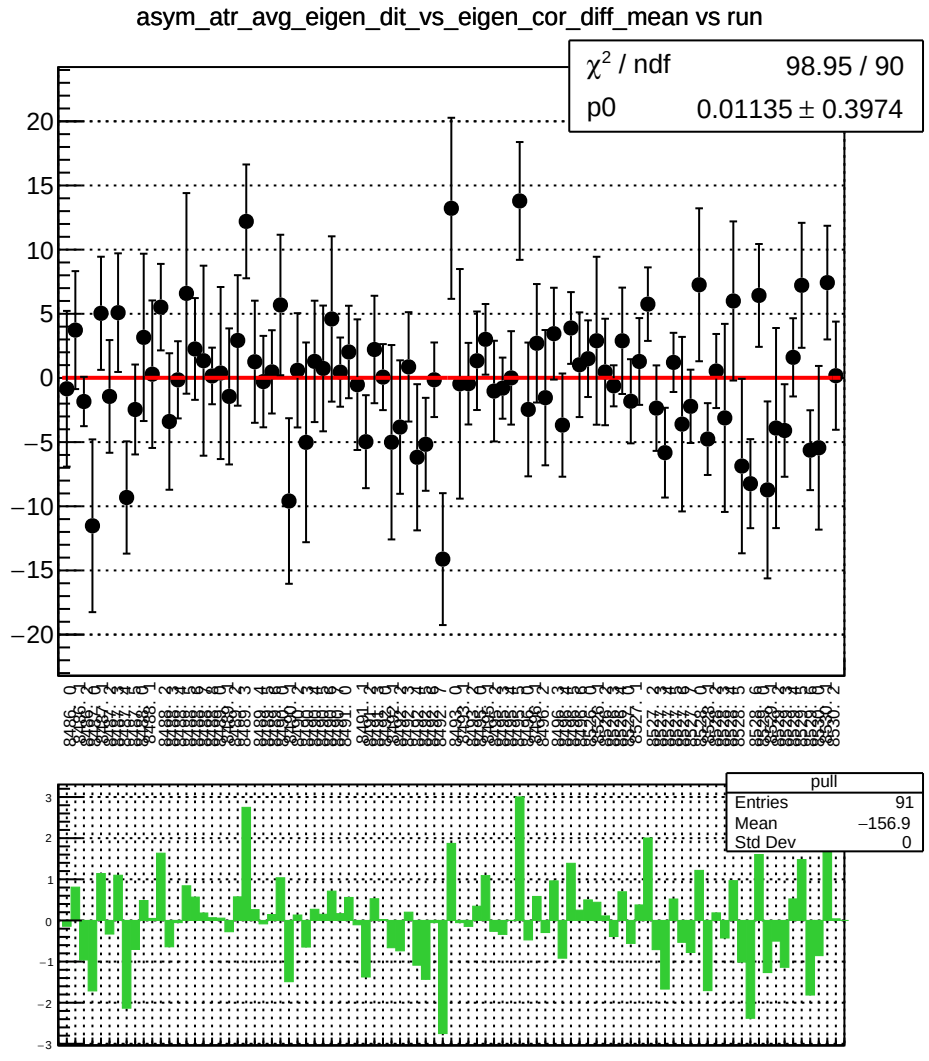

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 93.9 / 90
p0 −2.567e−06 ± 2.727e−06
×10⁻³
pull
Entries 91
Mean 64.82
Std Dev 26.16

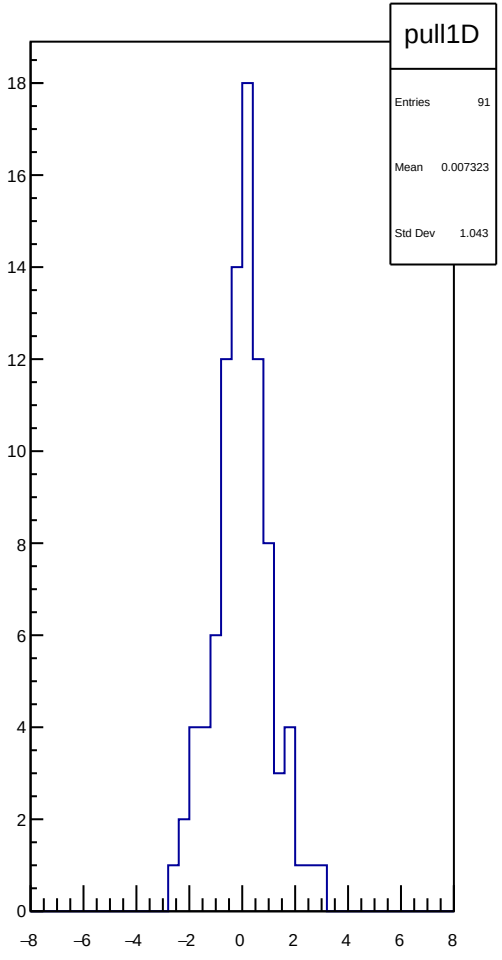

pull1D
Entries 91
Mean 0.02761
Std Dev 1.015

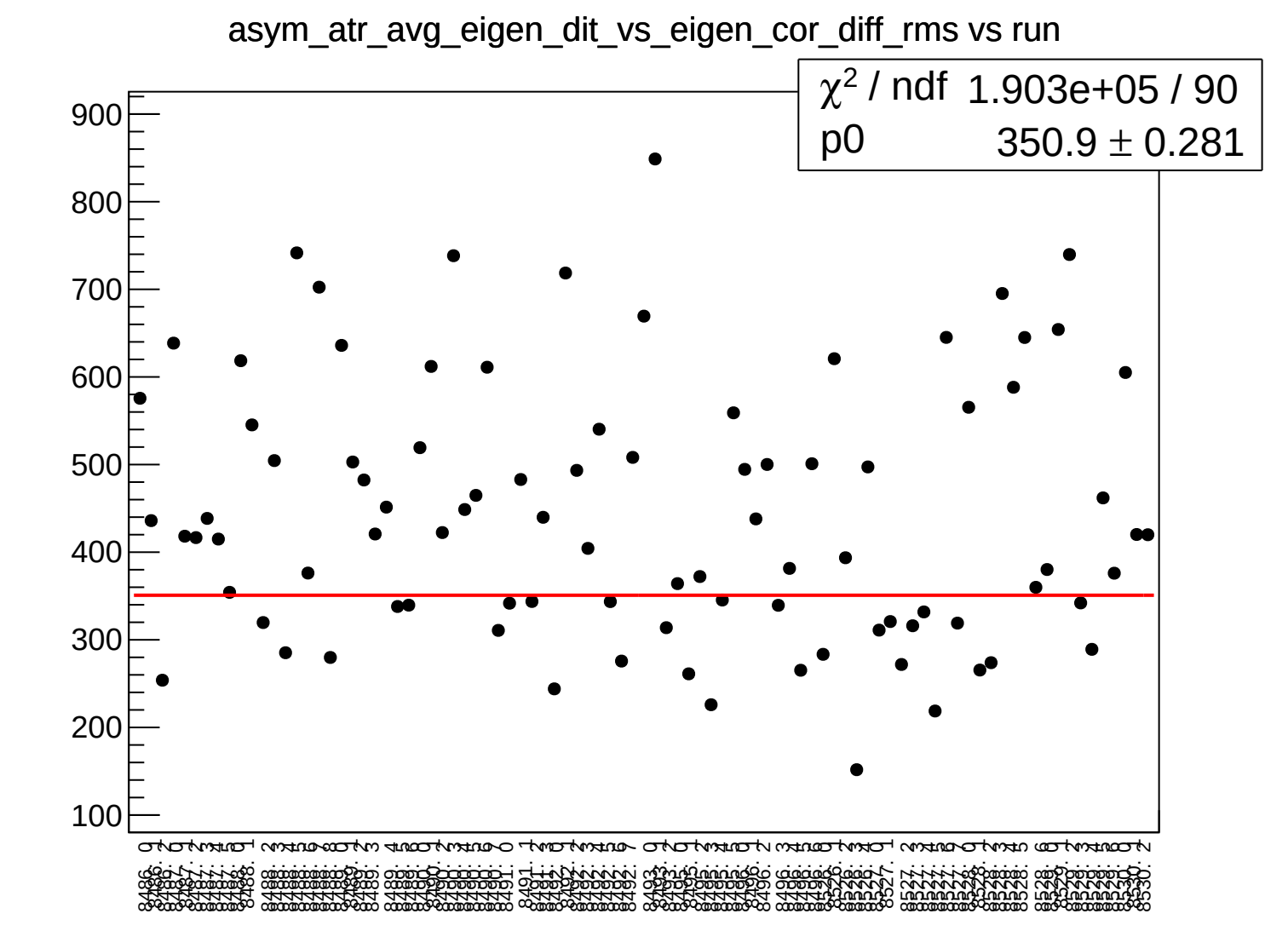

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.059e+05 / 90
p0 0.002316 ± 1.928e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

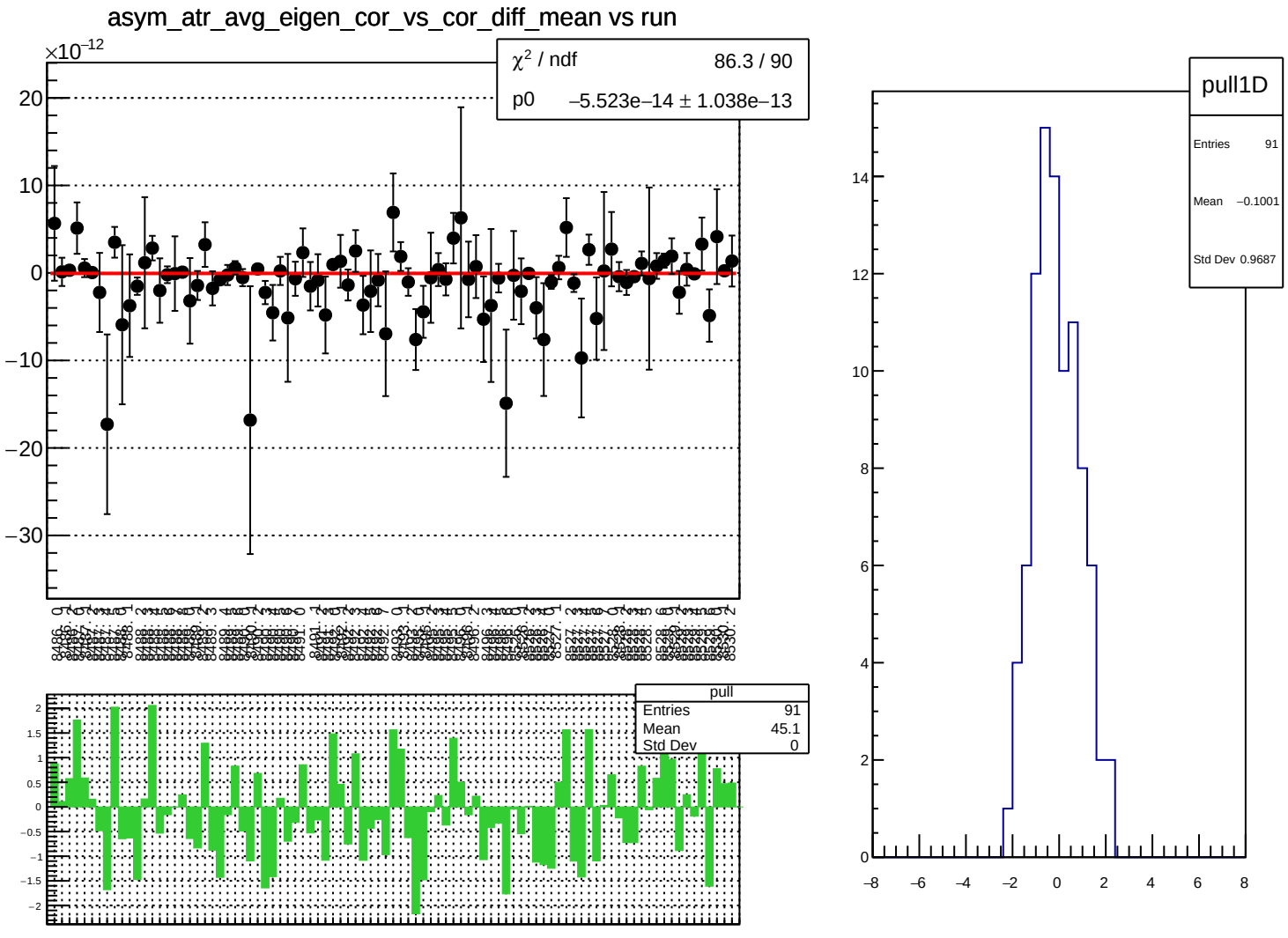

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.95 / 90
p0 0.01135 ± 0.3974
pull
Entries 91
Mean −156.9
Std Dev 0
pull1D
Entries 91
Mean 0.007323
Std Dev 1.043

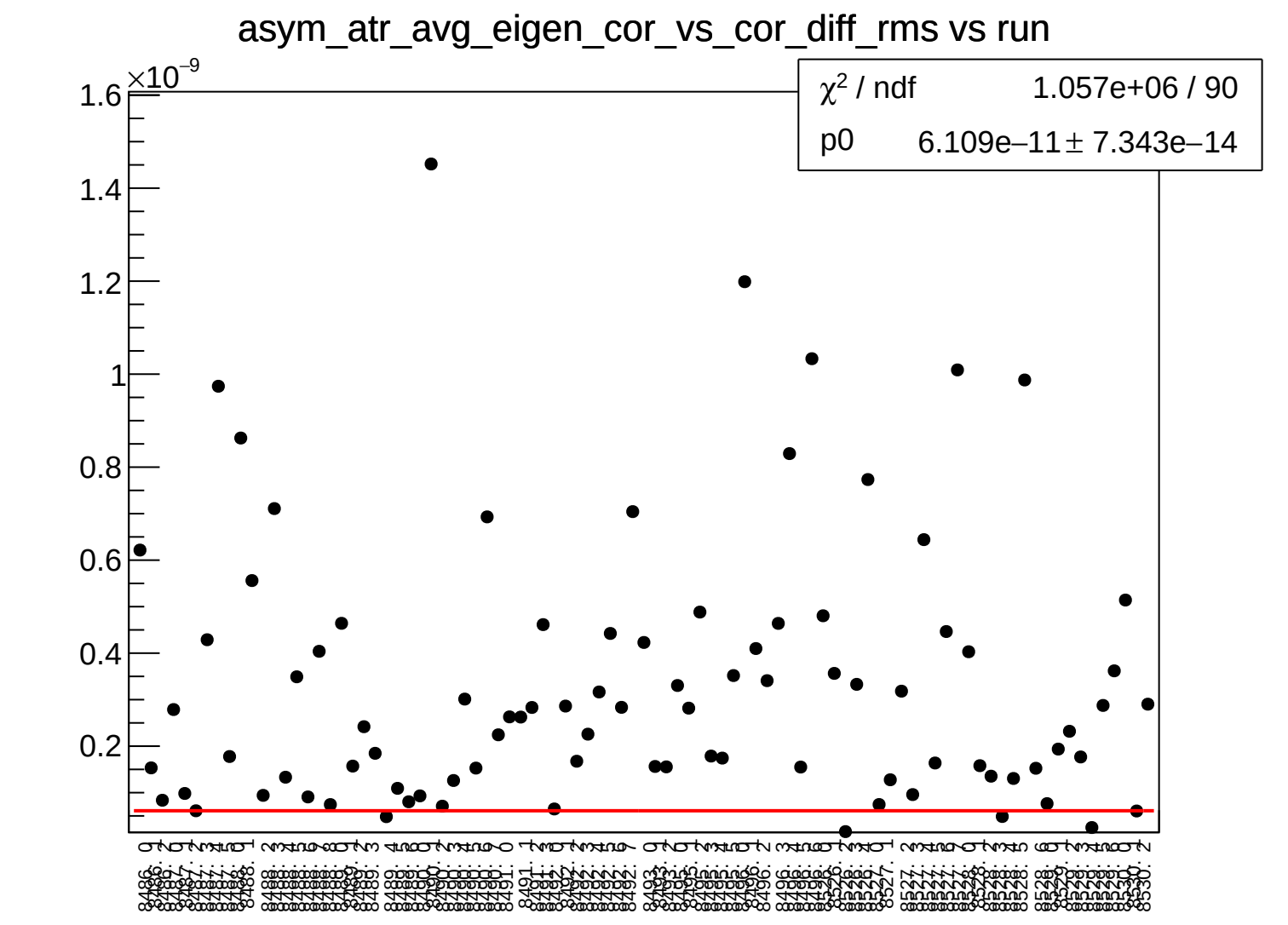

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.903e+05 / 90
p0 350.9 ± 0.281
900
800
700
600
500
400
300
200
100

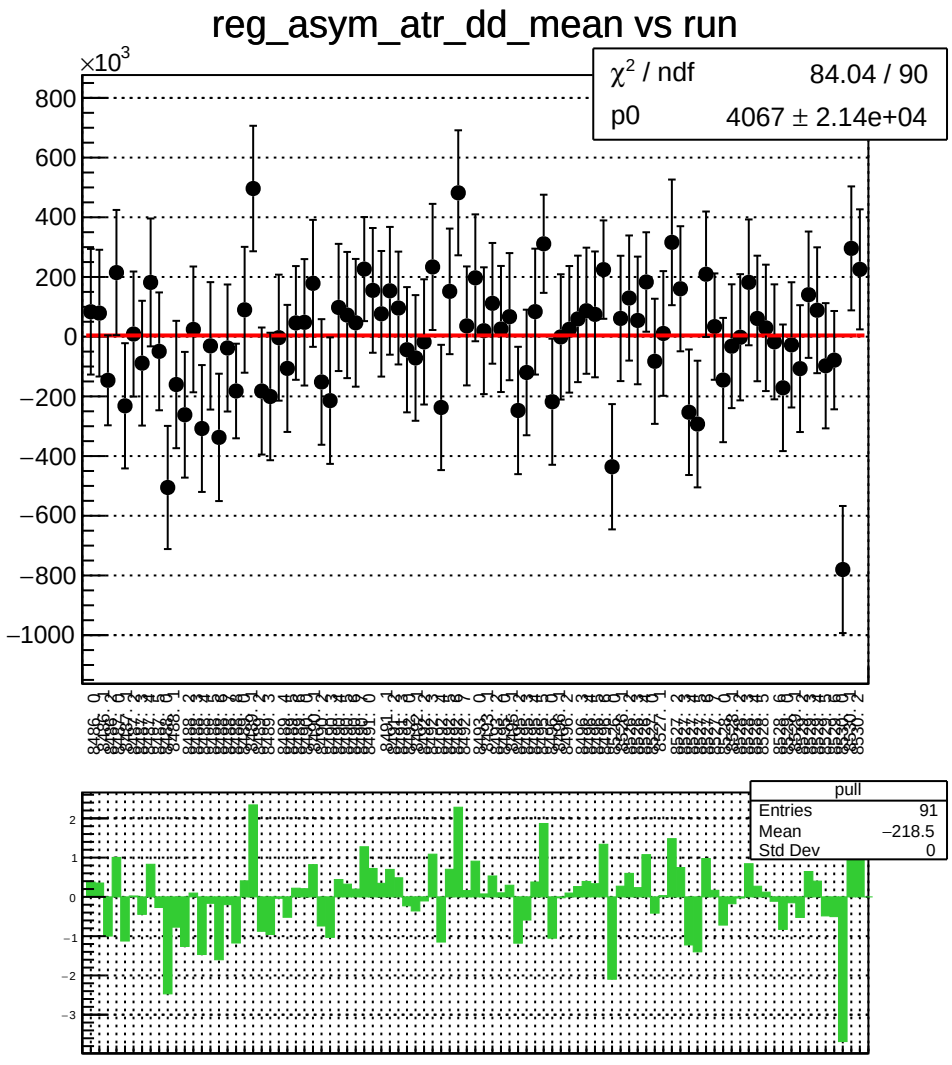

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.95 / 90
p0 0.01135 ± 0.3974
pull
Entries 91
Mean −156.9
Std Dev 0

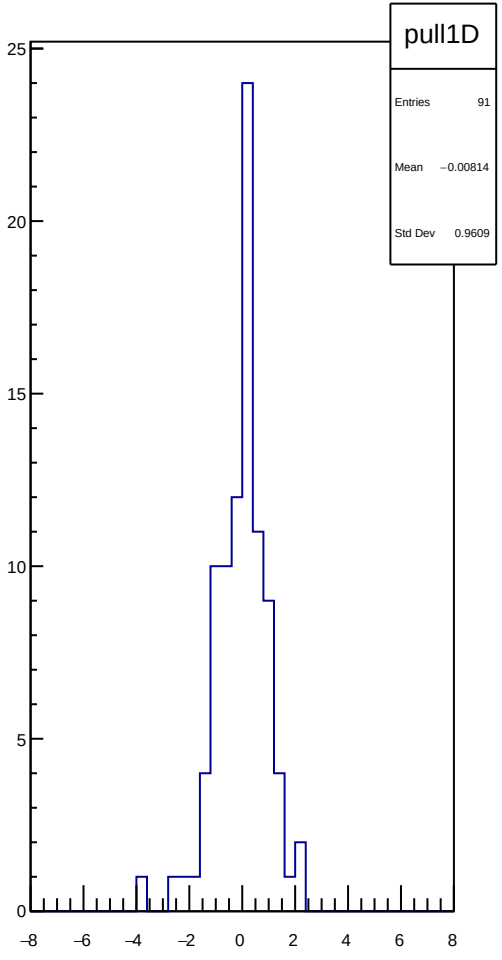

pull1D
Entries 91
Mean 0.007323
Std Dev 1.043

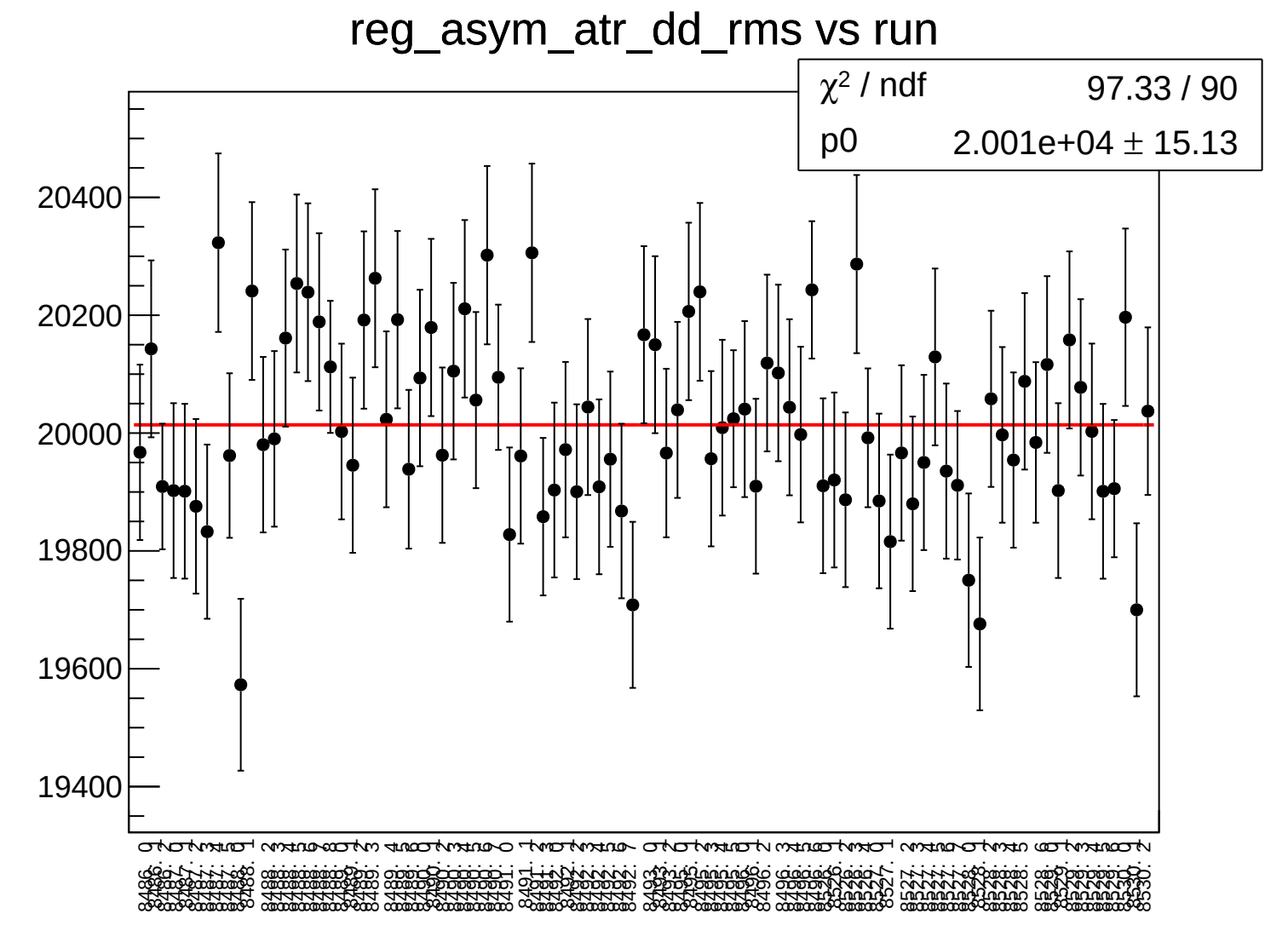

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.903e+05 / 90
p0 350.9 ± 0.281
900
800
700
600
500
400
300
200
100

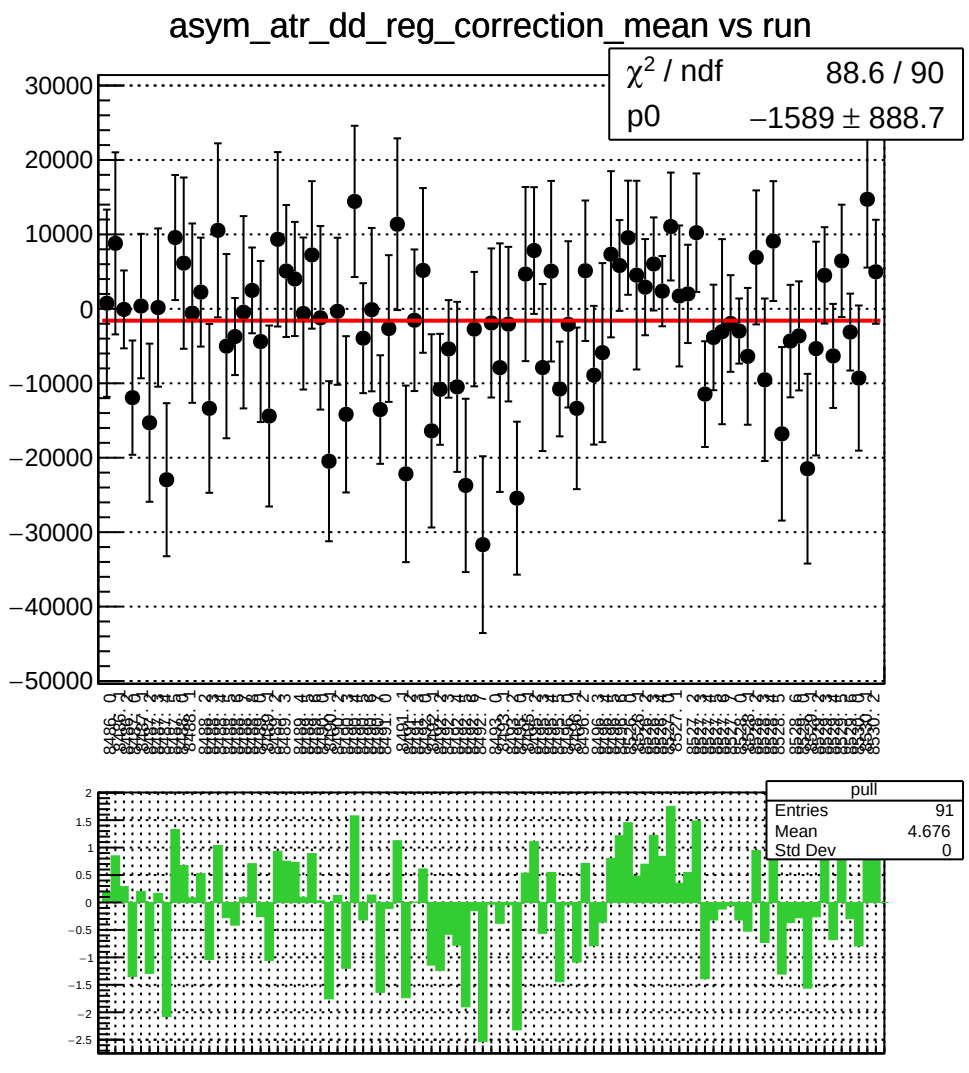

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 86.3 / 90
p0 −5.523e−14 ± 1.038e−13
pull
Entries 91
Mean 45.1
Std Dev 0
pull1D
Entries 91
Mean −0.1001
Std Dev 0.9687

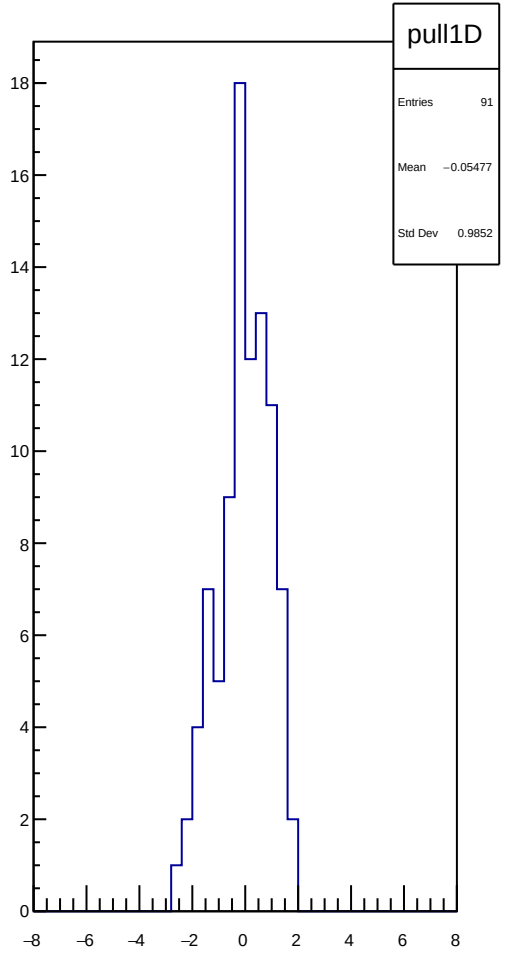

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.057e+06 / 90
p0 6.109e−11 ± 7.343e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

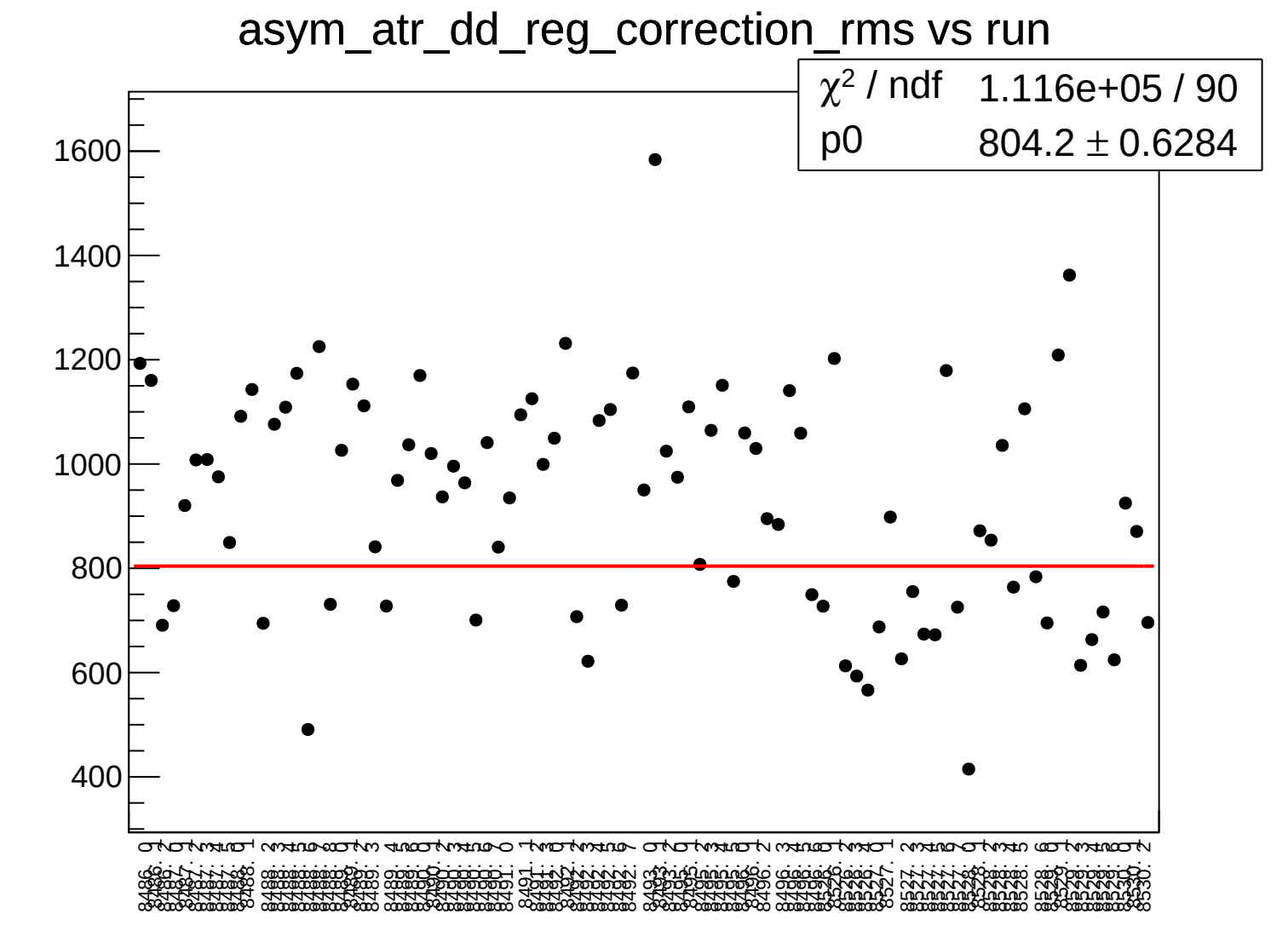

reg_asym_atr_dd_mean vs run
×10^3
χ² / ndf 84.04 / 90
p0 4067 ± 2.14e+04
pull
Entries 91
Mean −218.5
Std Dev 0

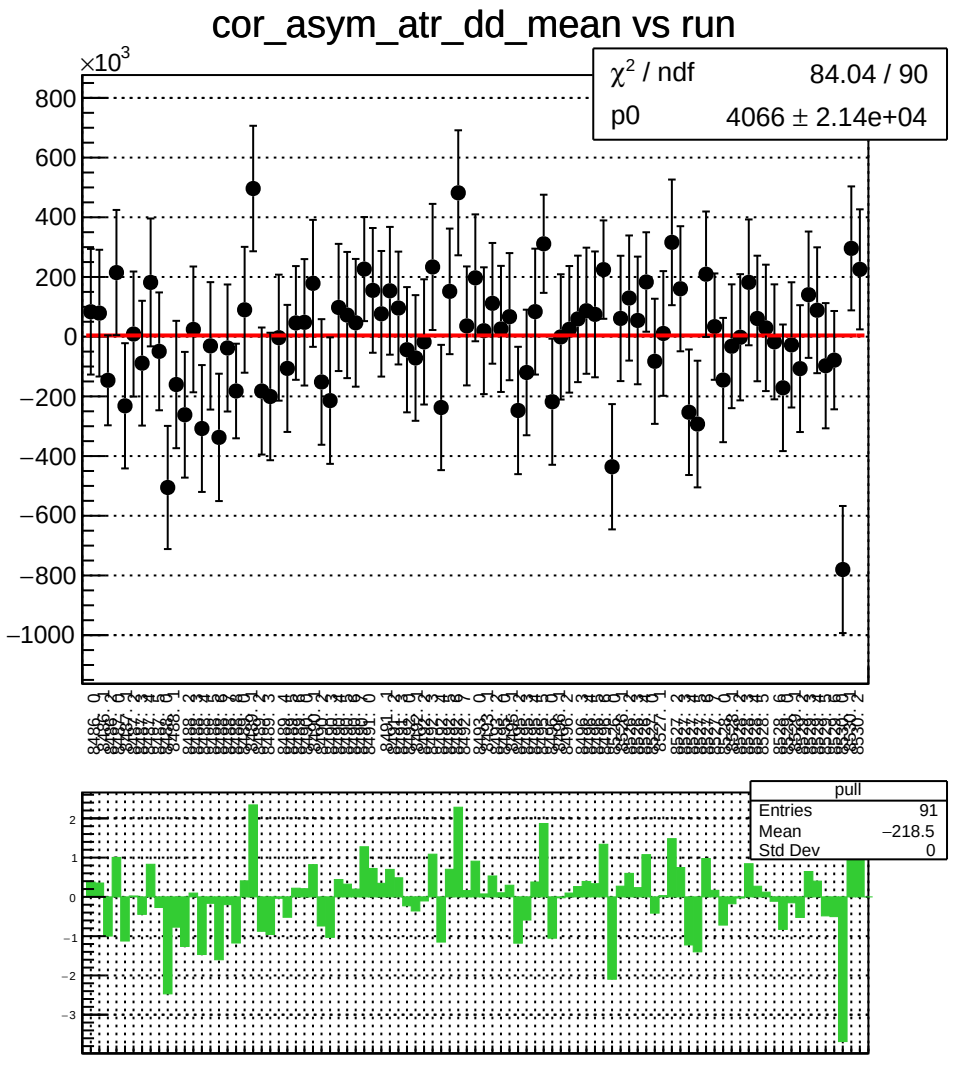

pull1D
Entries 91
Mean −0.00814
Std Dev 0.9609

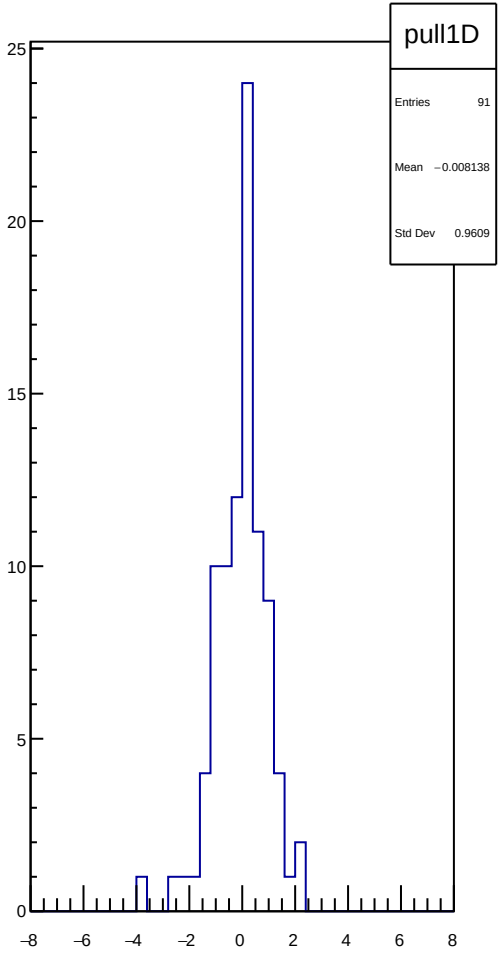

reg_asym_atr_dd_rms vs run
χ² / ndf 97.33 / 90
p0 2.001e+04 ± 15.13
20400
20200
20000
19800
19600
19400

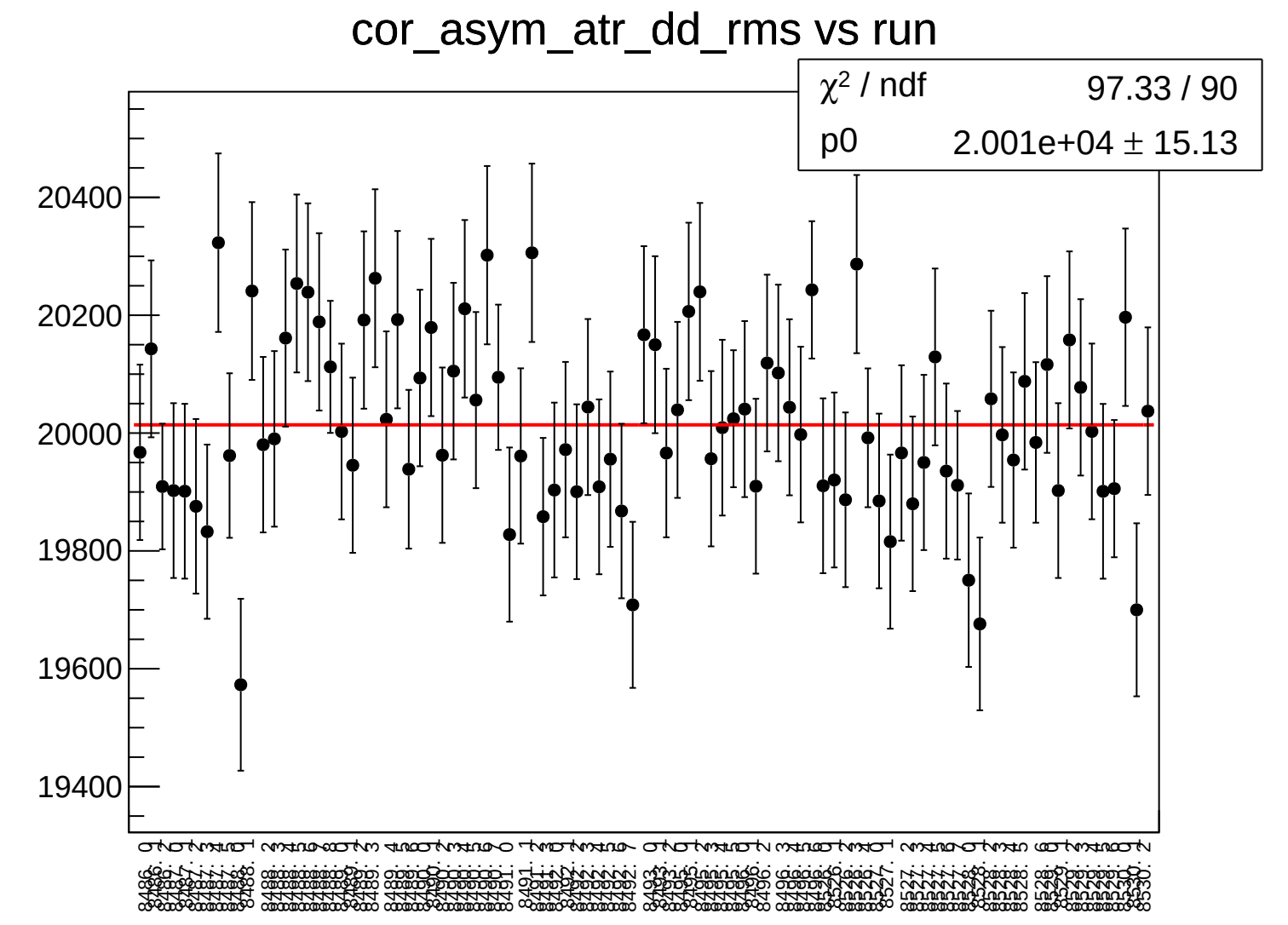

asym_atr_dd_reg_correction_mean vs run
χ² / ndf 88.6 / 90
p0 −1589 ± 888.7
pull
Entries 91
Mean 4.676
Std Dev 0

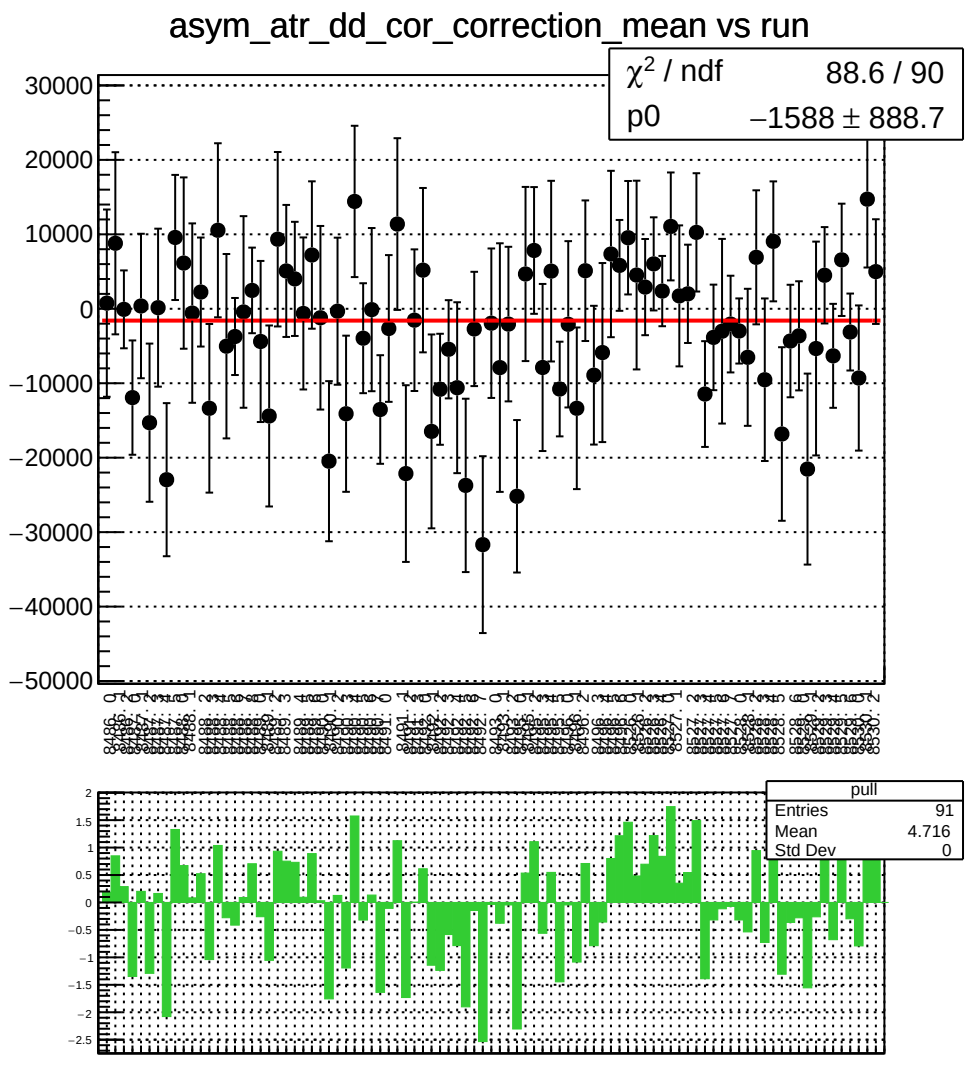

pull1D
Entries 91
Mean −0.05477
Std Dev 0.9852

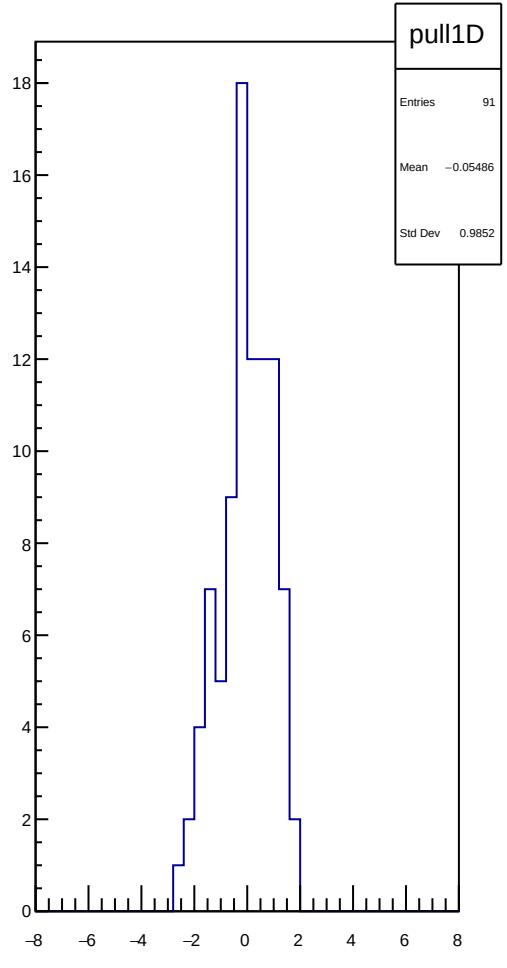

asym_atr_dd_reg_correction_rms vs run
χ² / ndf 1.116e+05 / 90
p0 804.2 ± 0.6284
1600
1400
1200
1000
800
600
400

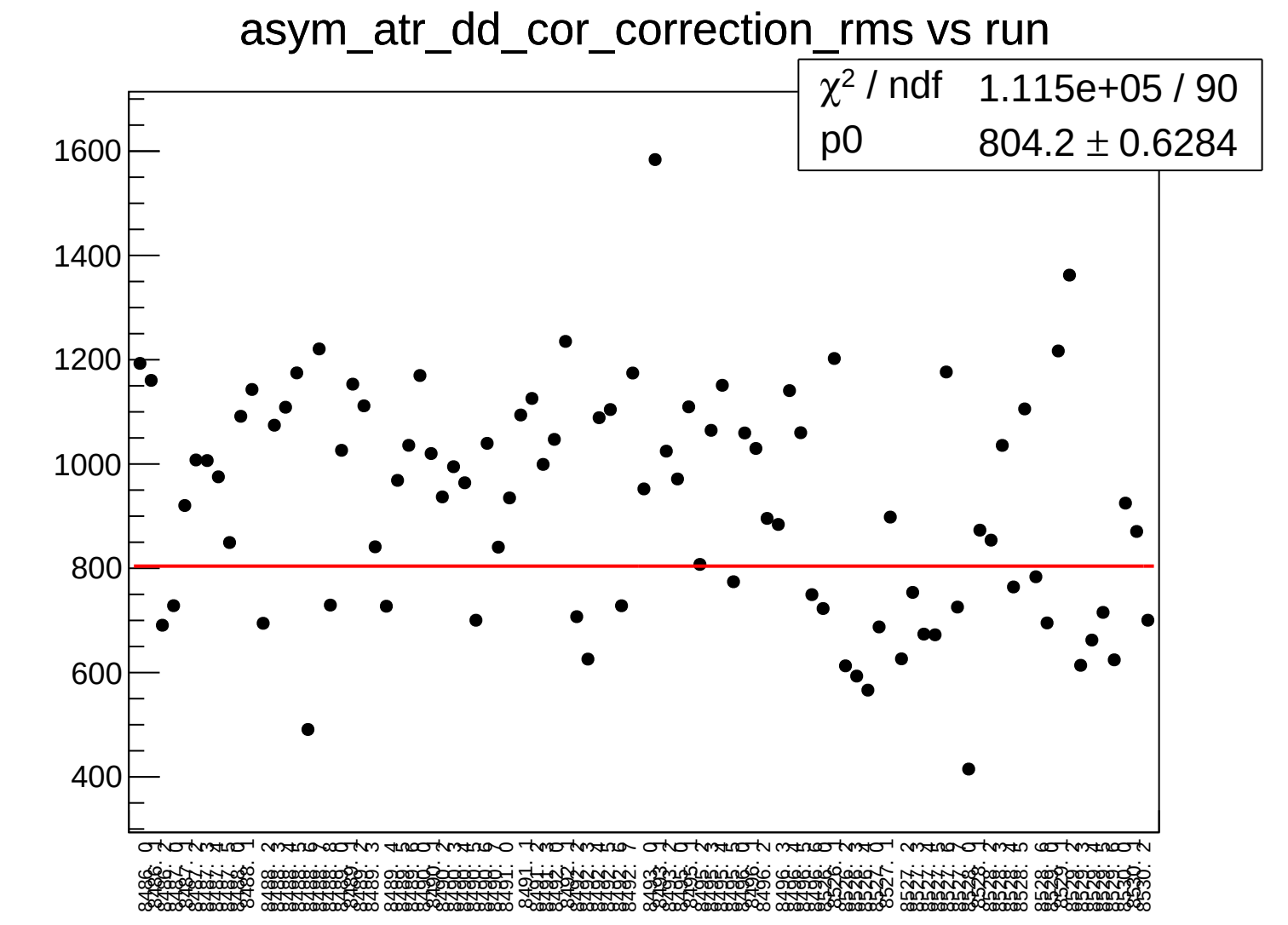

cor_asym_atr_dd_mean vs run
×10^3
χ² / ndf 84.04 / 90
p0 4066 ± 2.14e+04
pull
Entries 91
Mean −218.5
Std Dev 0

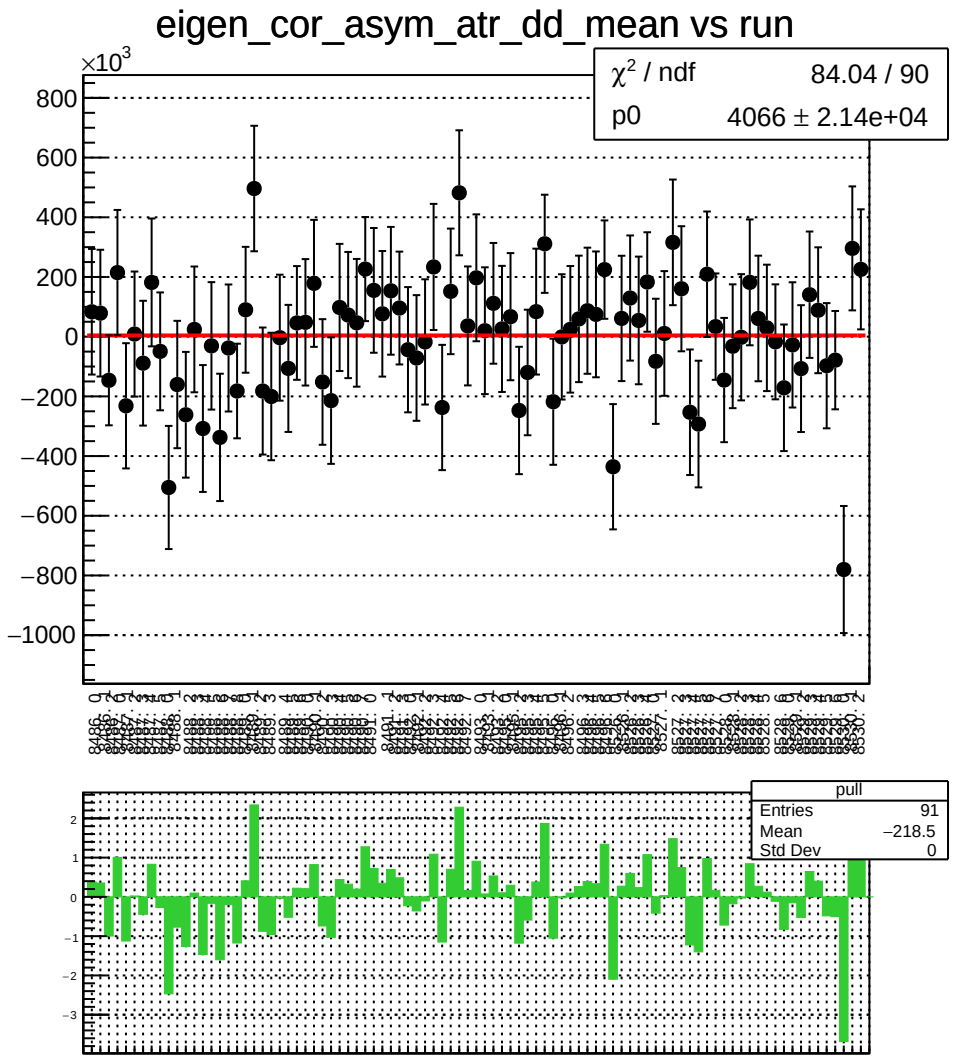

pull1D
Entries 91
Mean −0.008138
Std Dev 0.9609

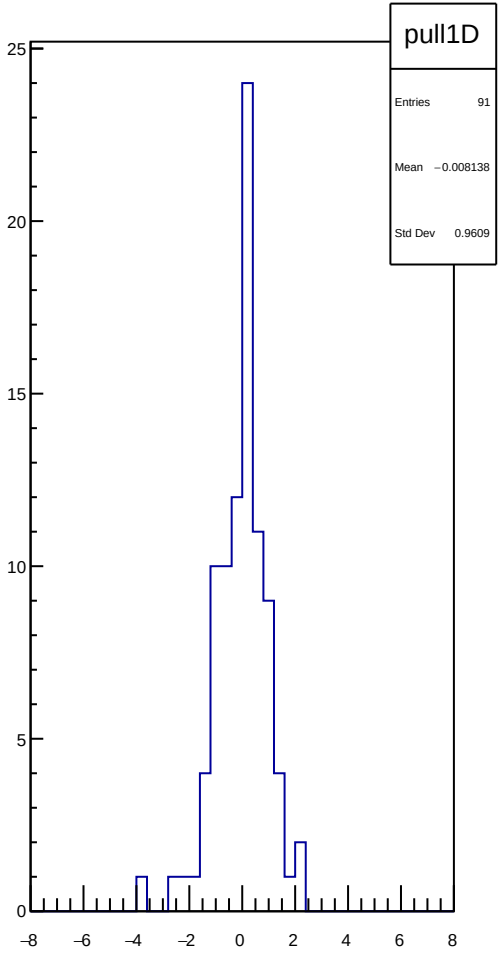

cor_asym_atr_dd_rms vs run
χ² / ndf 97.33 / 90
p0 2.001e+04 ± 15.13
20400
20200
20000
19800
19600
19400

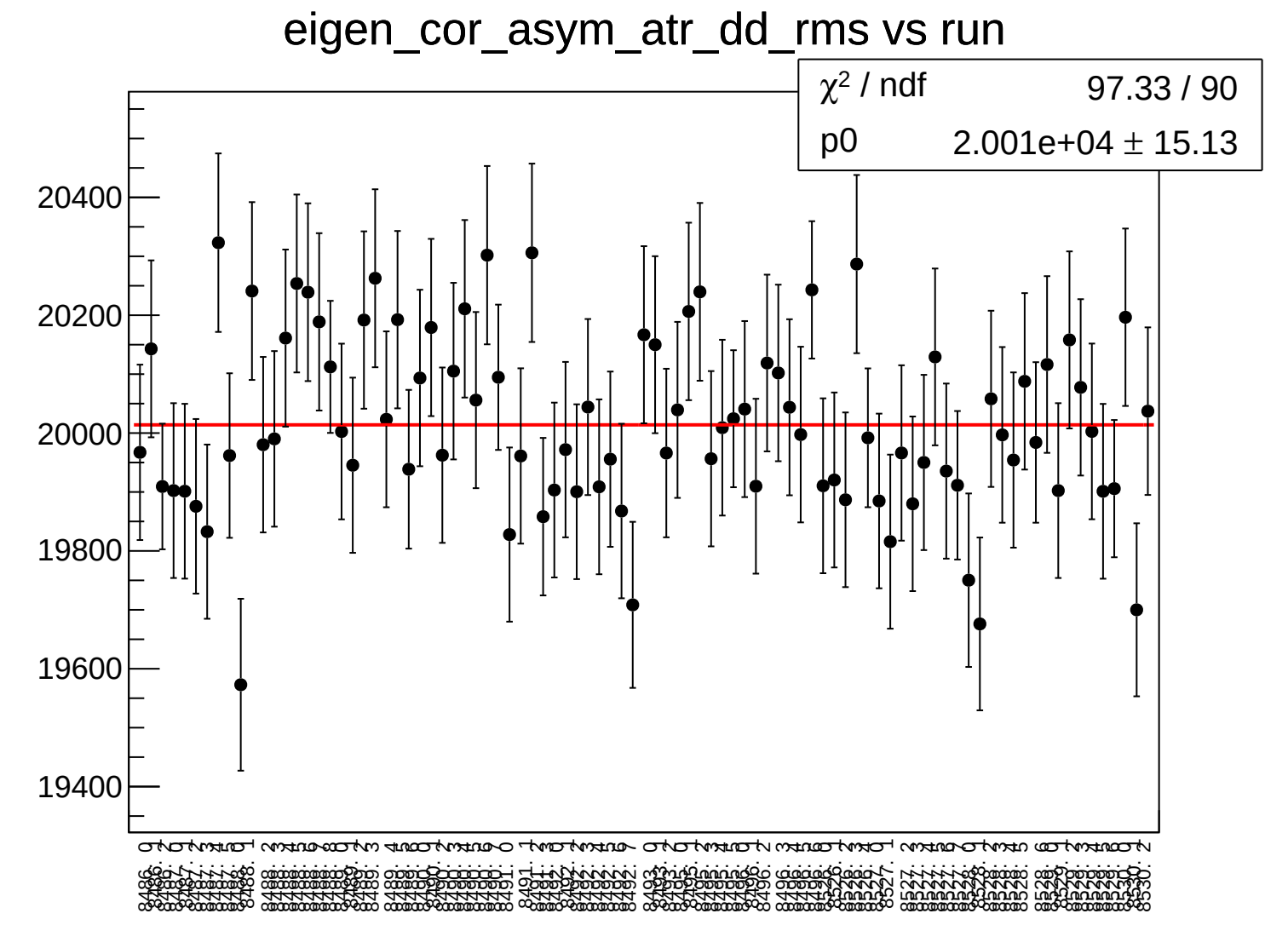

asym_atr_dd_cor_correction_mean vs run
χ² / ndf 88.6 / 90
p0 −1588 ± 888.7
pull
Entries 91
Mean 4.716
Std Dev 0

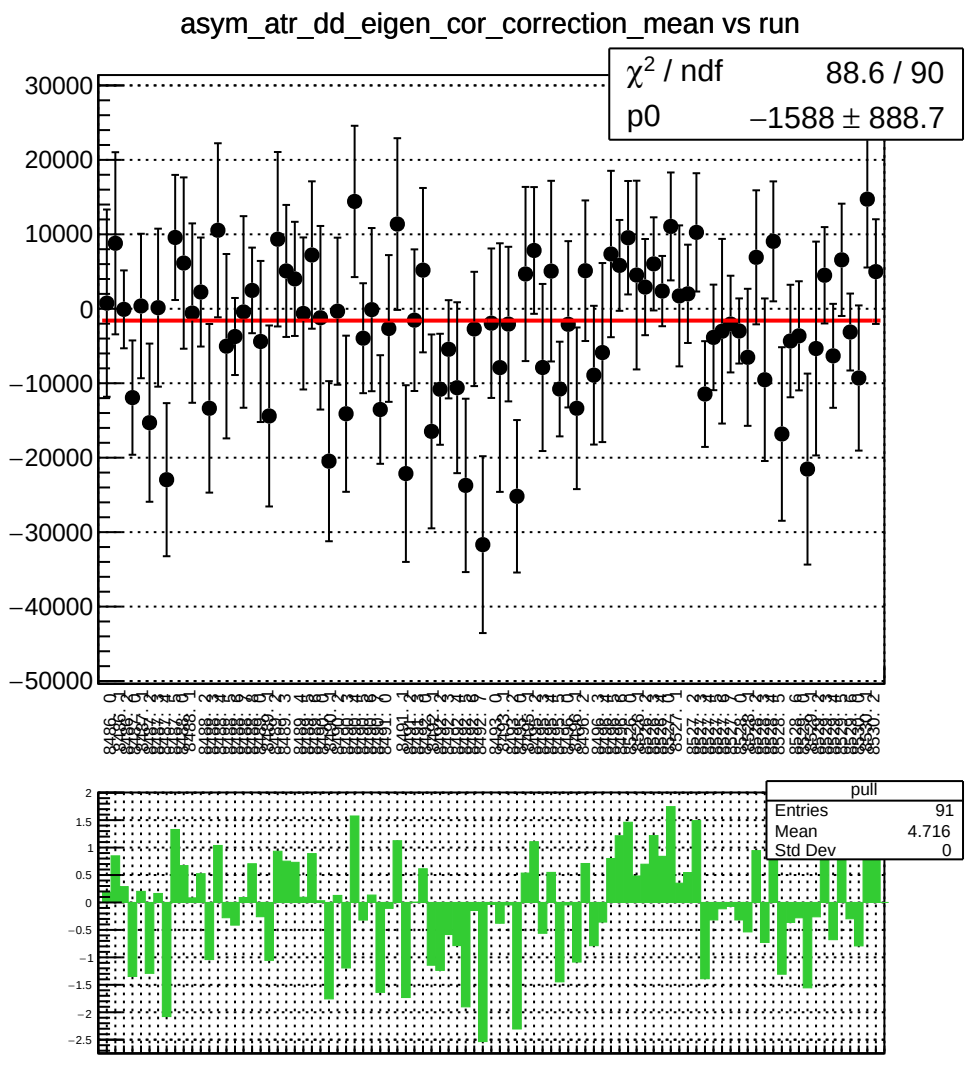

pull1D
Entries 91
Mean −0.05486
Std Dev 0.9852

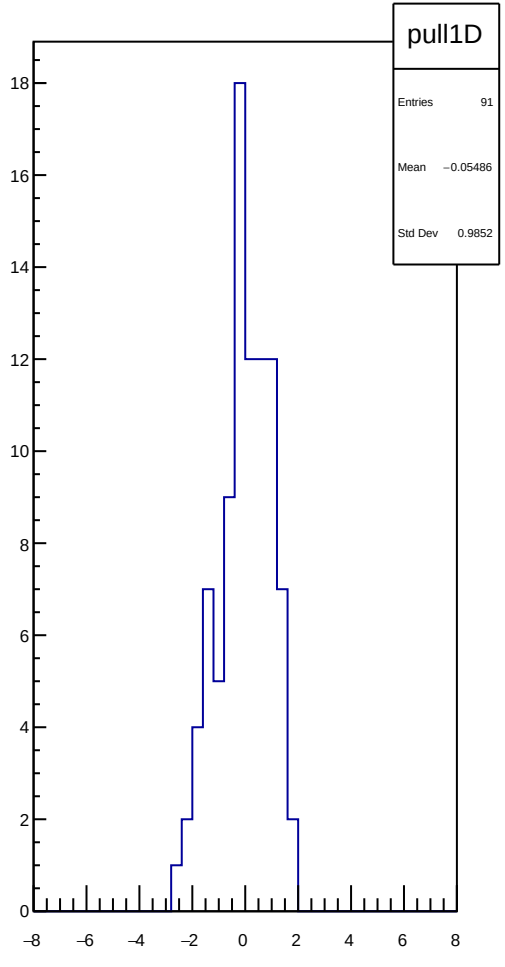

asym_atr_dd_cor_correction_rms vs run
χ² / ndf 1.115e+05 / 90
p0 804.2 ± 0.6284
1600
1400
1200
1000
800
600
400

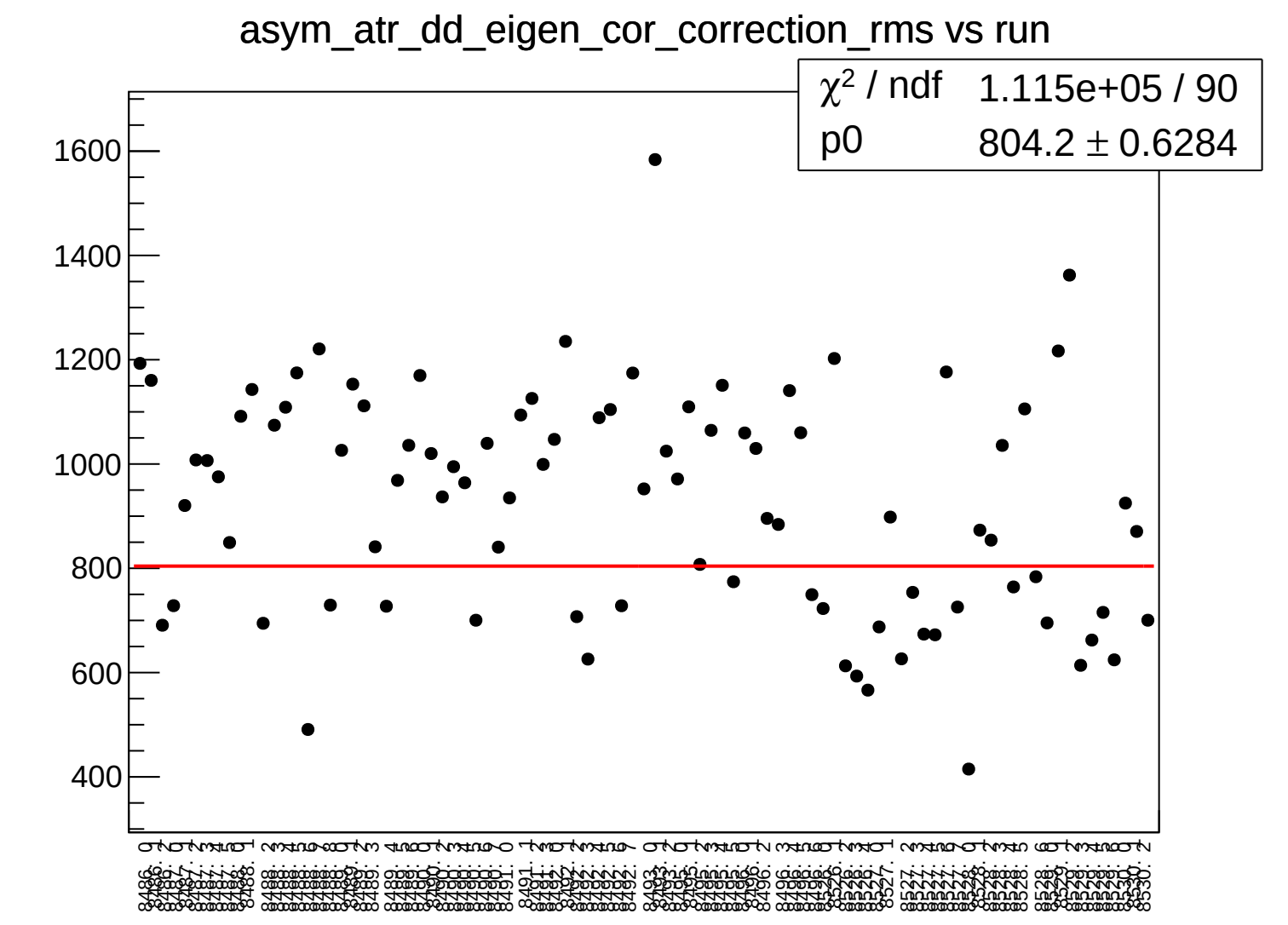

eigen_cor_asym_atr_dd_mean vs run
×10^3
χ² / ndf 84.04 / 90
p0 4066 ± 2.14e+04
pull
Entries 91
Mean −218.5
Std Dev 0

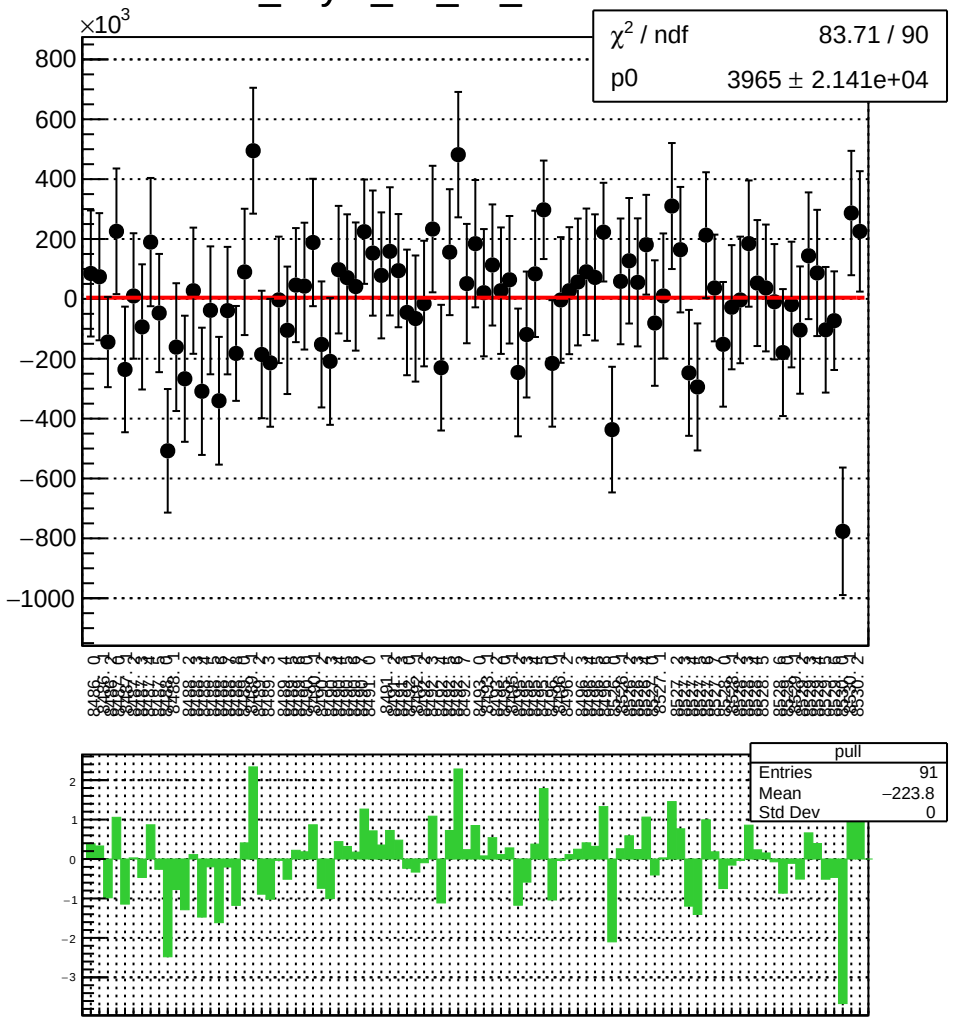

pull1D
Entries 91
Mean −0.008138
Std Dev 0.9609

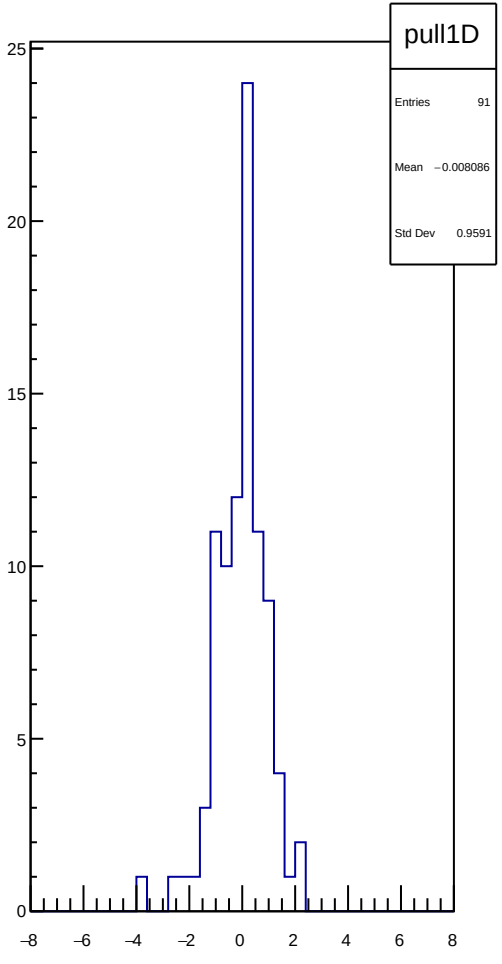

eigen_cor_asym_atr_dd_rms vs run
χ² / ndf 97.33 / 90
p0 2.001e+04 ± 15.13
20400
20200
20000
19800
19600
19400

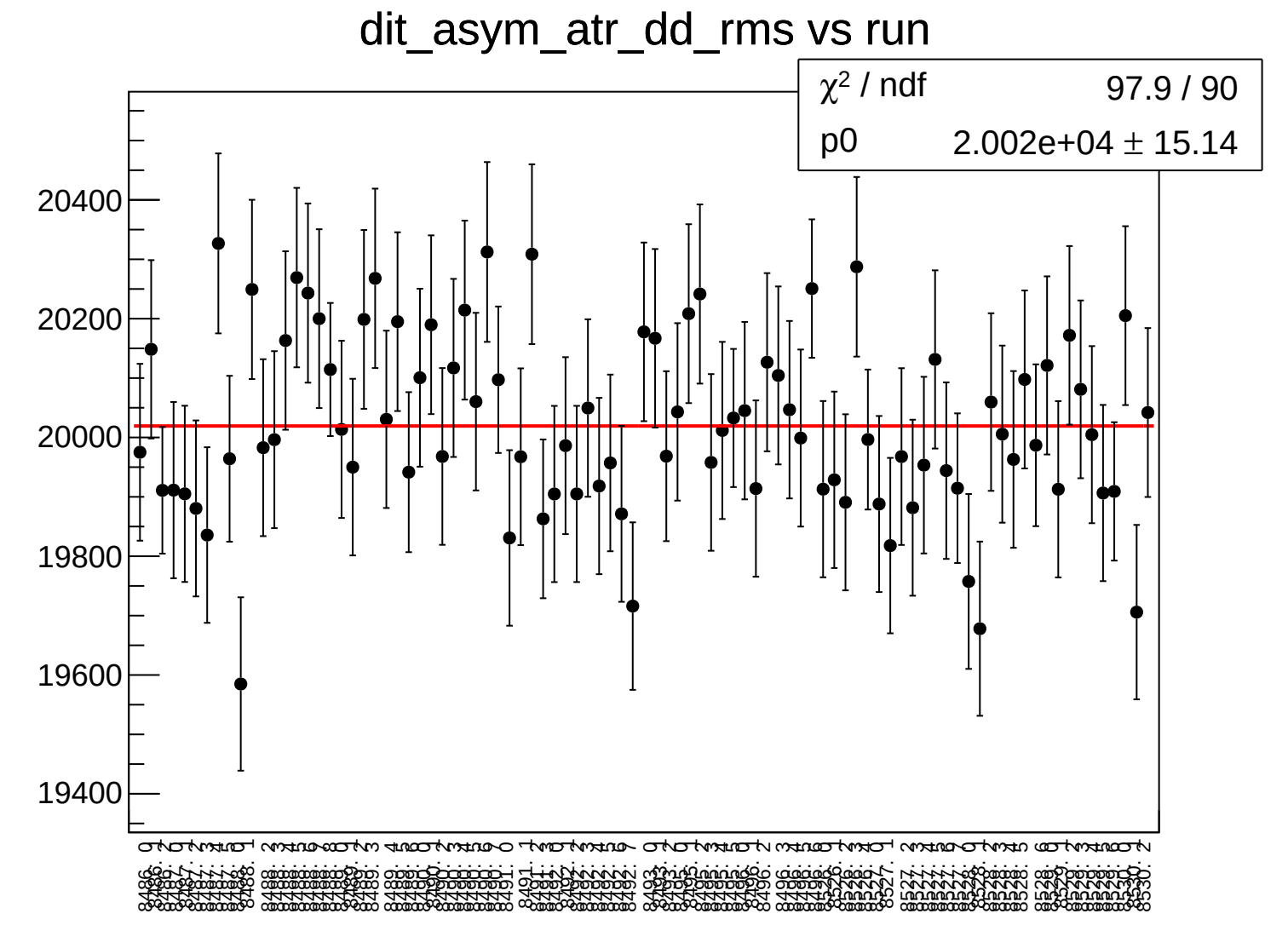

asym_atr_dd_eigen_cor_correction_mean vs run
χ² / ndf 88.6 / 90
p0 −1588 ± 888.7
pull
Entries 91
Mean 4.716
Std Dev 0

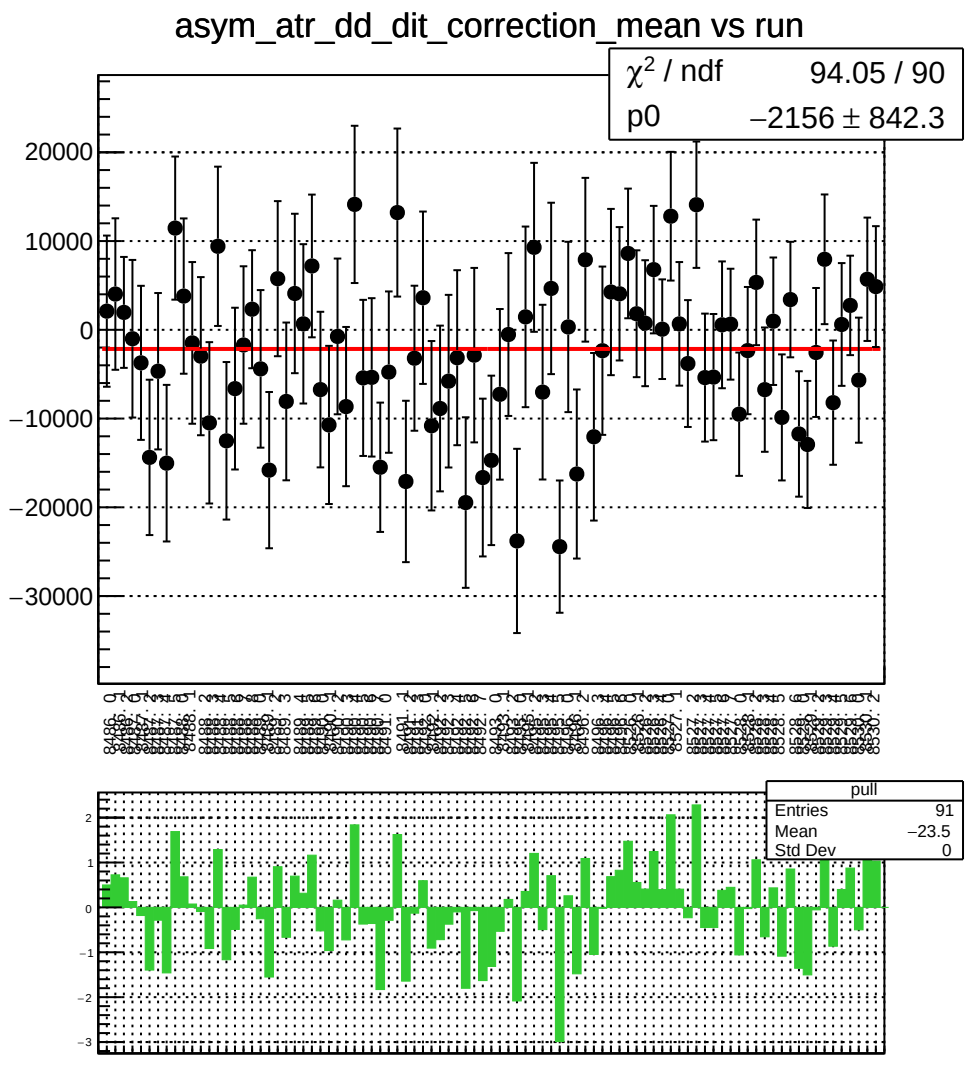

pull1D
Entries 91
Mean −0.05486
Std Dev 0.9852

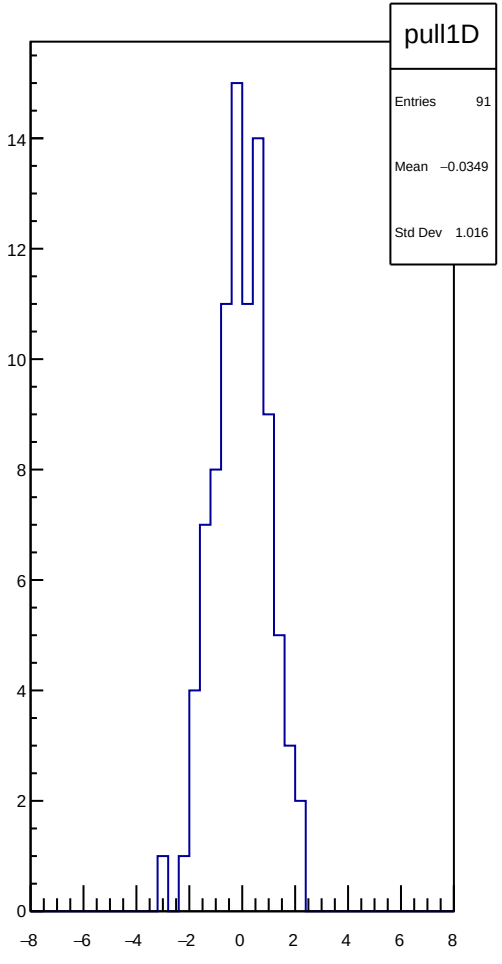

asym_atr_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.115e+05 / 90
p0 804.2 ± 0.6284
1600
1400
1200
1000
800
600
400

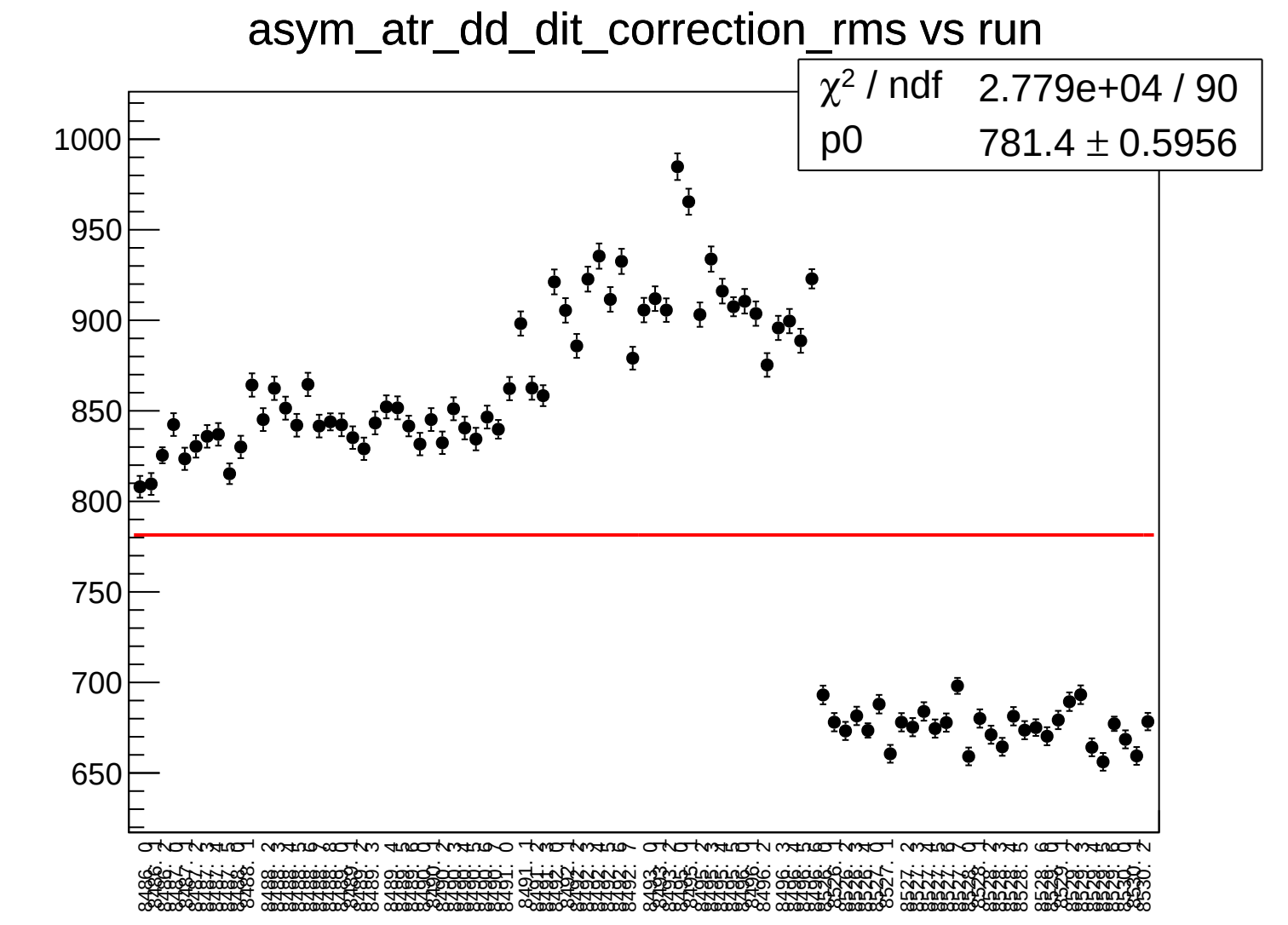

dit_asym_atr_dd_mean vs run
×10^3
χ² / ndf 83.71 / 90
p0 3965 ± 2.141e+04
pull
Entries 91
Mean −223.8
Std Dev 0

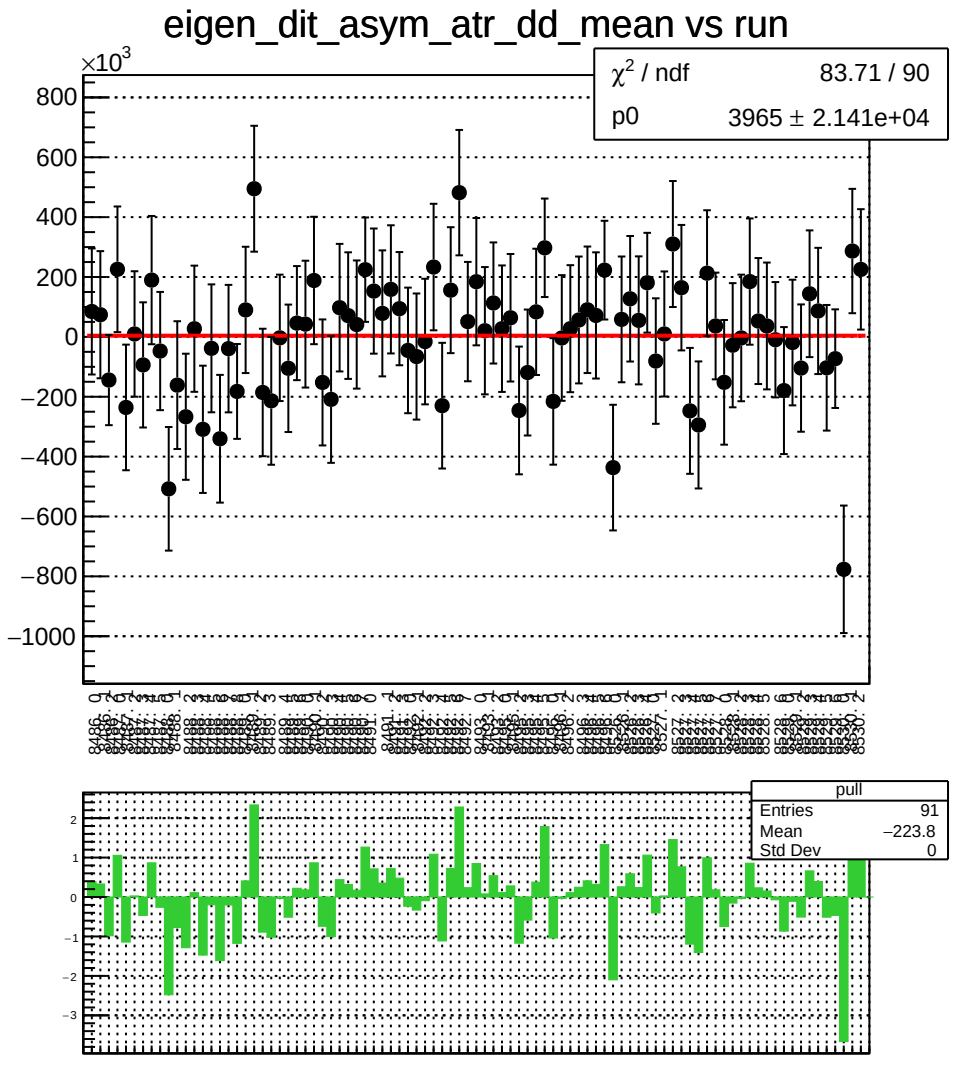

pull1D
Entries 91
Mean −0.008086
Std Dev 0.9591

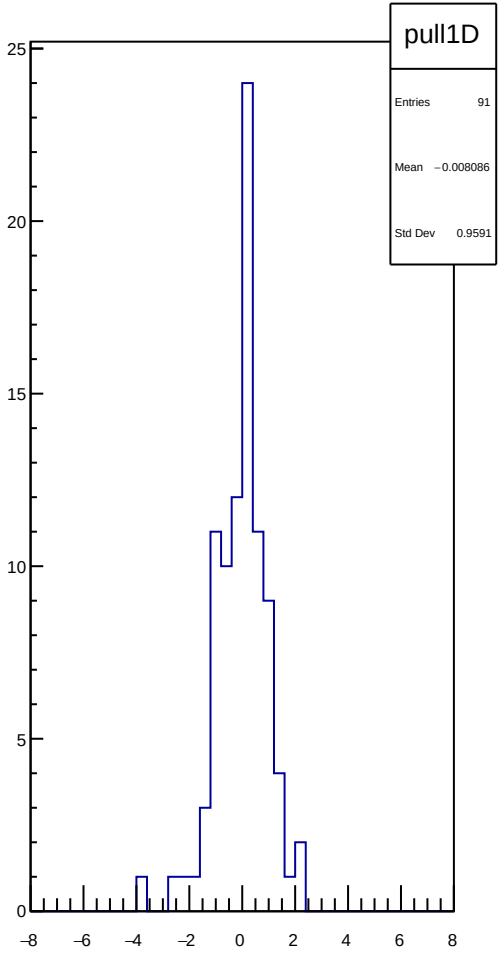

dit_asym_atr_dd_rms vs run
χ² / ndf 97.9 / 90
p0 2.002e+04 ± 15.14
20400
20200
20000
19800
19600
19400

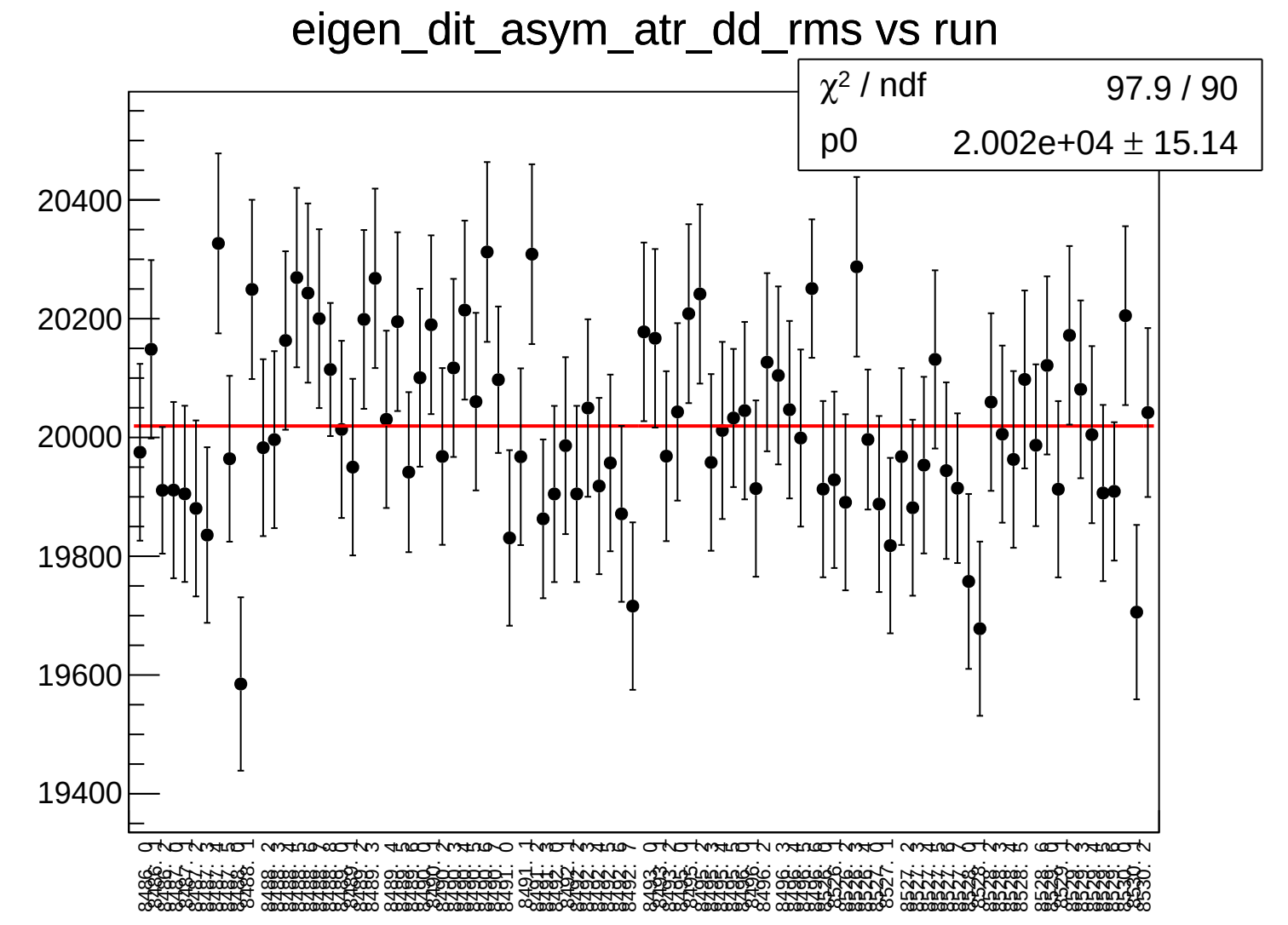

asym_atr_dd_dit_correction_mean vs run
χ² / ndf 94.05 / 90
p0 −2156 ± 842.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −23.5
Std Dev 0
2
1
0
−1
−2
−3

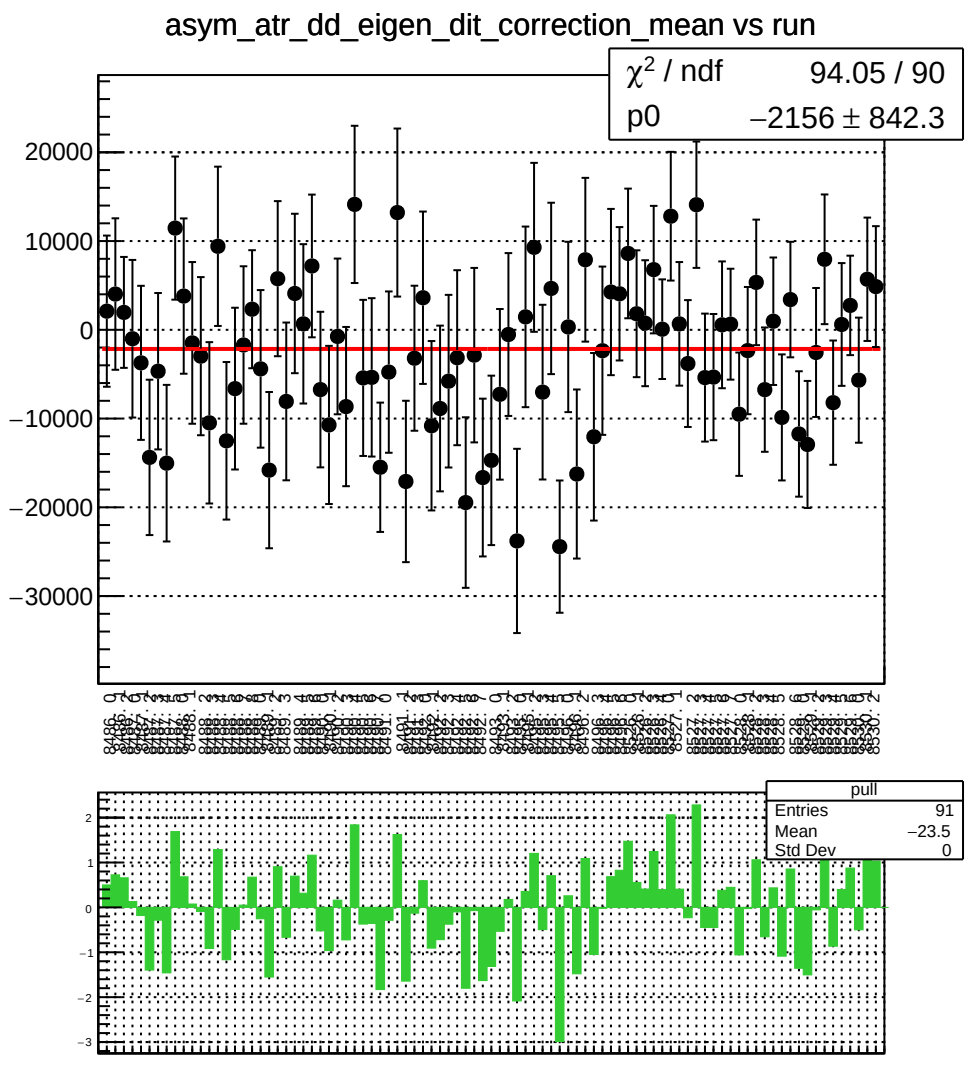

pull1D
Entries 91
Mean −0.0349
Std Dev 1.016
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

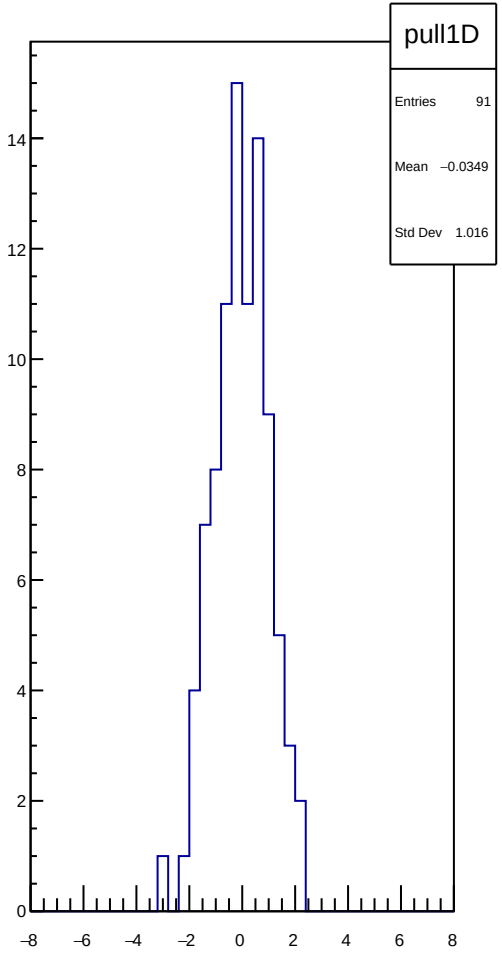

asym_atr_dd_dit_correction_rms vs run
χ² / ndf 2.779e+04 / 90
p0 781.4 ± 0.5956
1000
950
900
850
800
750
700
650

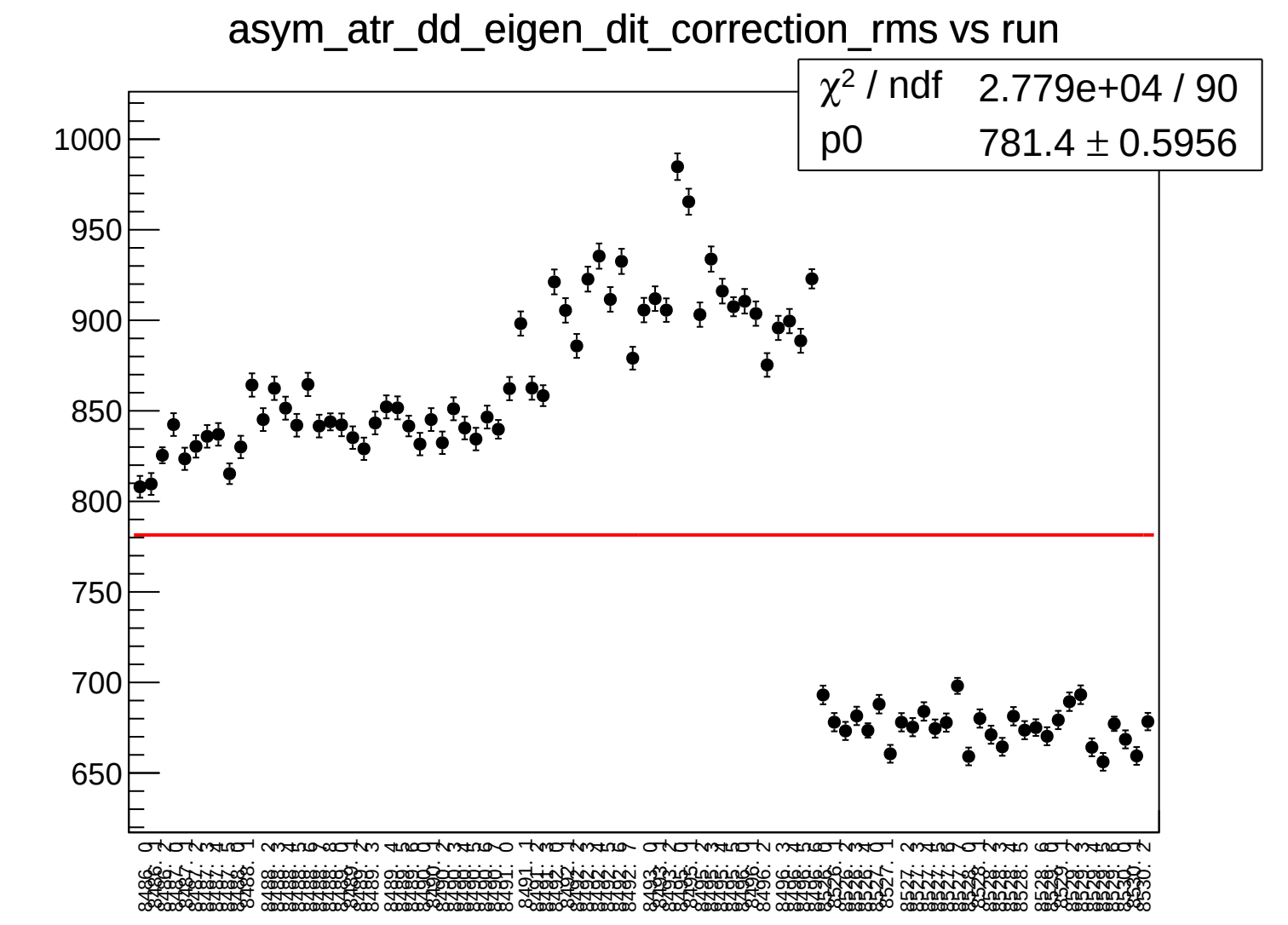

eigen_dit_asym_atr_dd_mean vs run
×10^3
χ² / ndf 83.71 / 90
p0 3965 ± 2.141e+04
pull
Entries 91
Mean −223.8
Std Dev 0

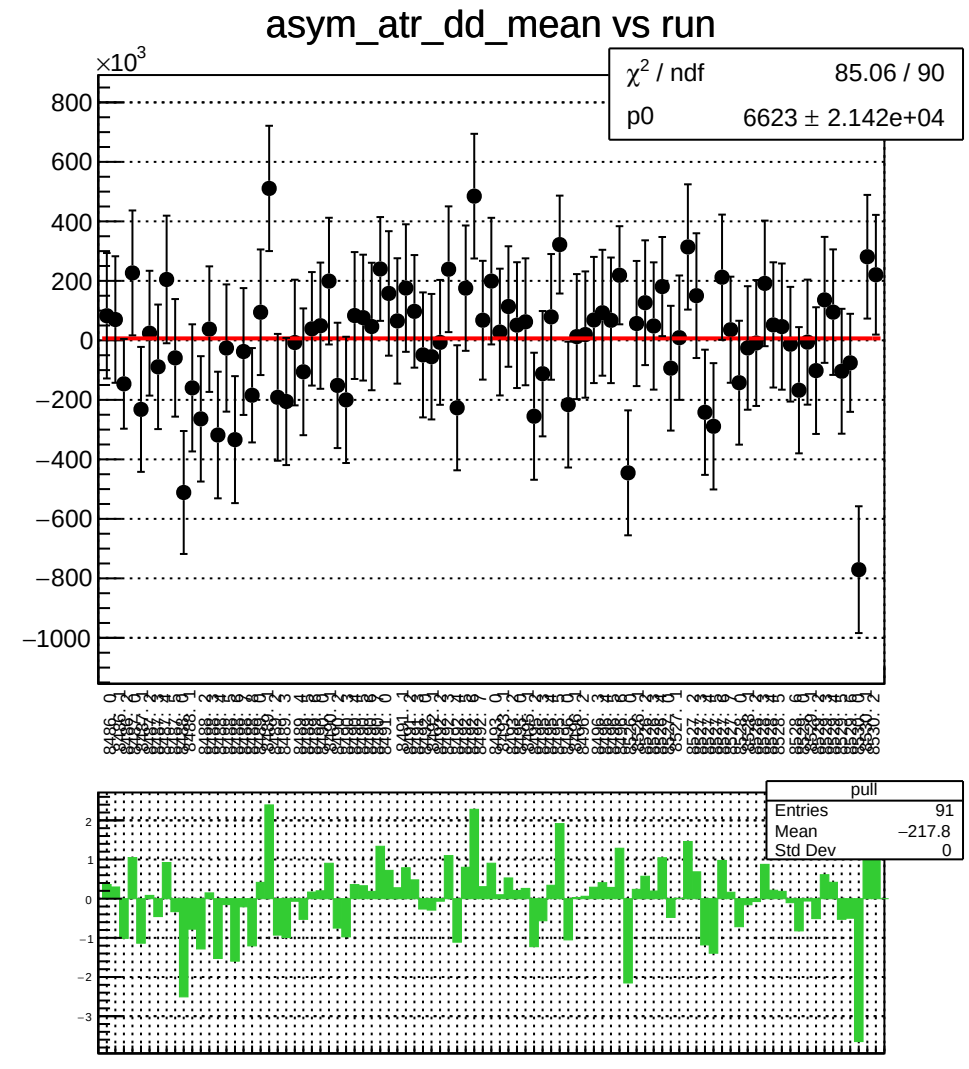

pull1D
Entries 91
Mean −0.008086
Std Dev 0.9591

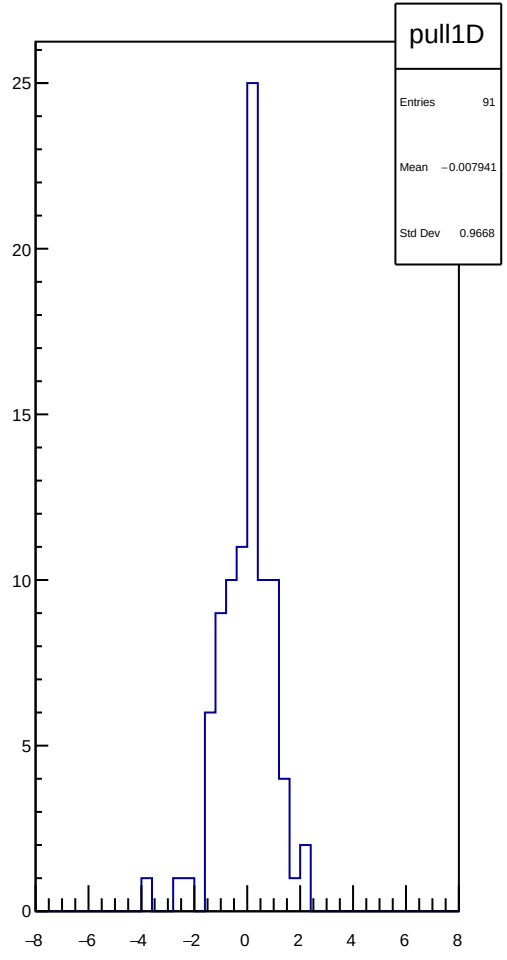

eigen_dit_asym_atr_dd_rms vs run
χ² / ndf 97.9 / 90
p0 2.002e+04 ± 15.14
20400
20200
20000
19800
19600
19400

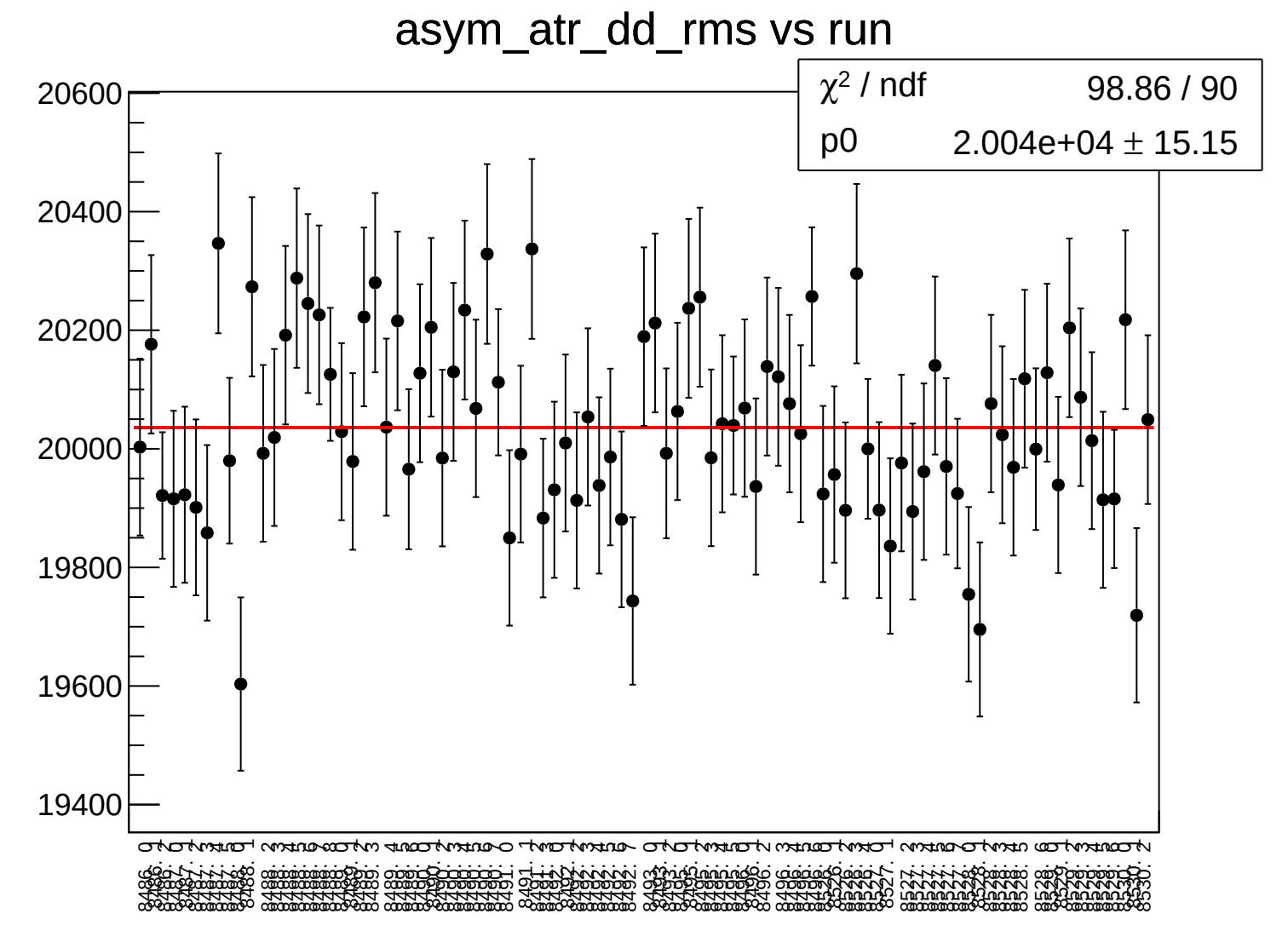

asym_atr_dd_eigen_dit_correction_mean vs run
χ² / ndf 94.05 / 90
p0 −2156 ± 842.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −23.5
Std Dev 0
2
1
0
−1
−2
−3

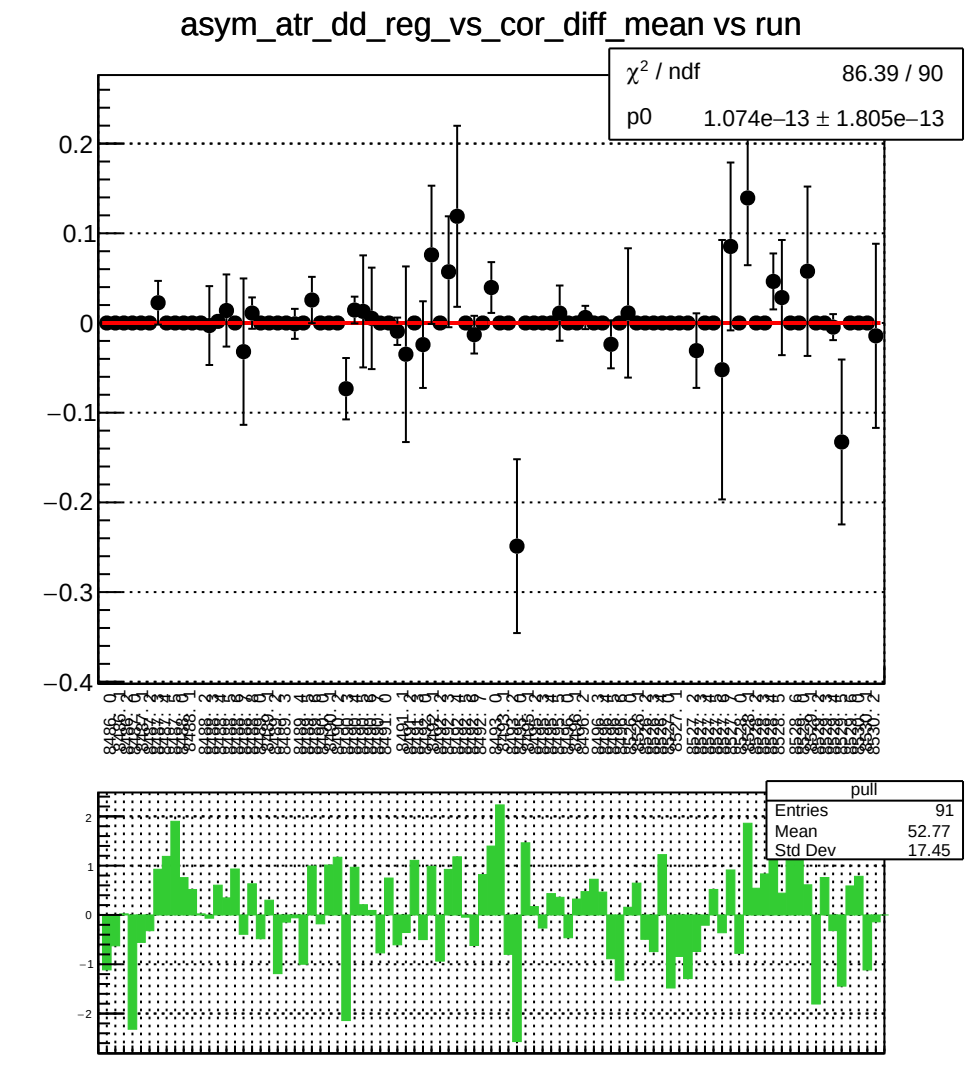

pull1D
Entries 91
Mean −0.0349
Std Dev 1.016
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

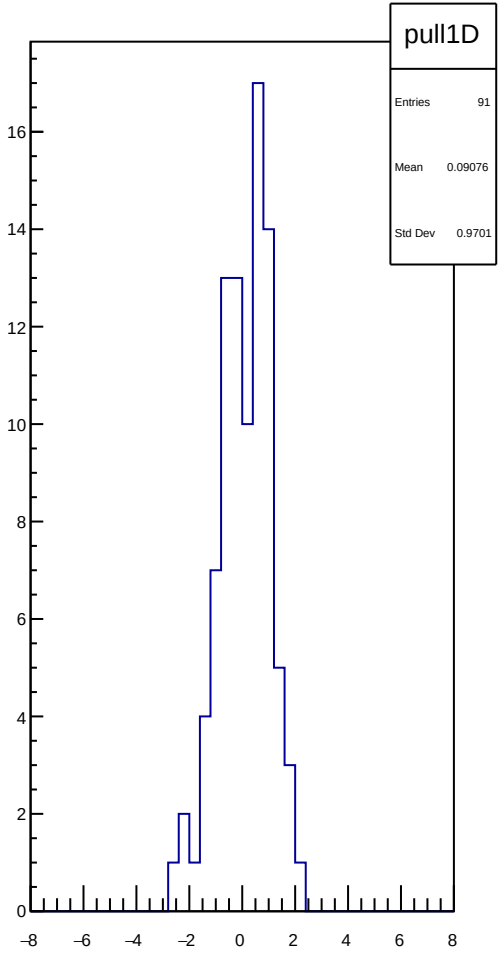

asym_atr_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.779e+04 / 90
p0 781.4 ± 0.5956
1000
950
900
850
800
750
700
650

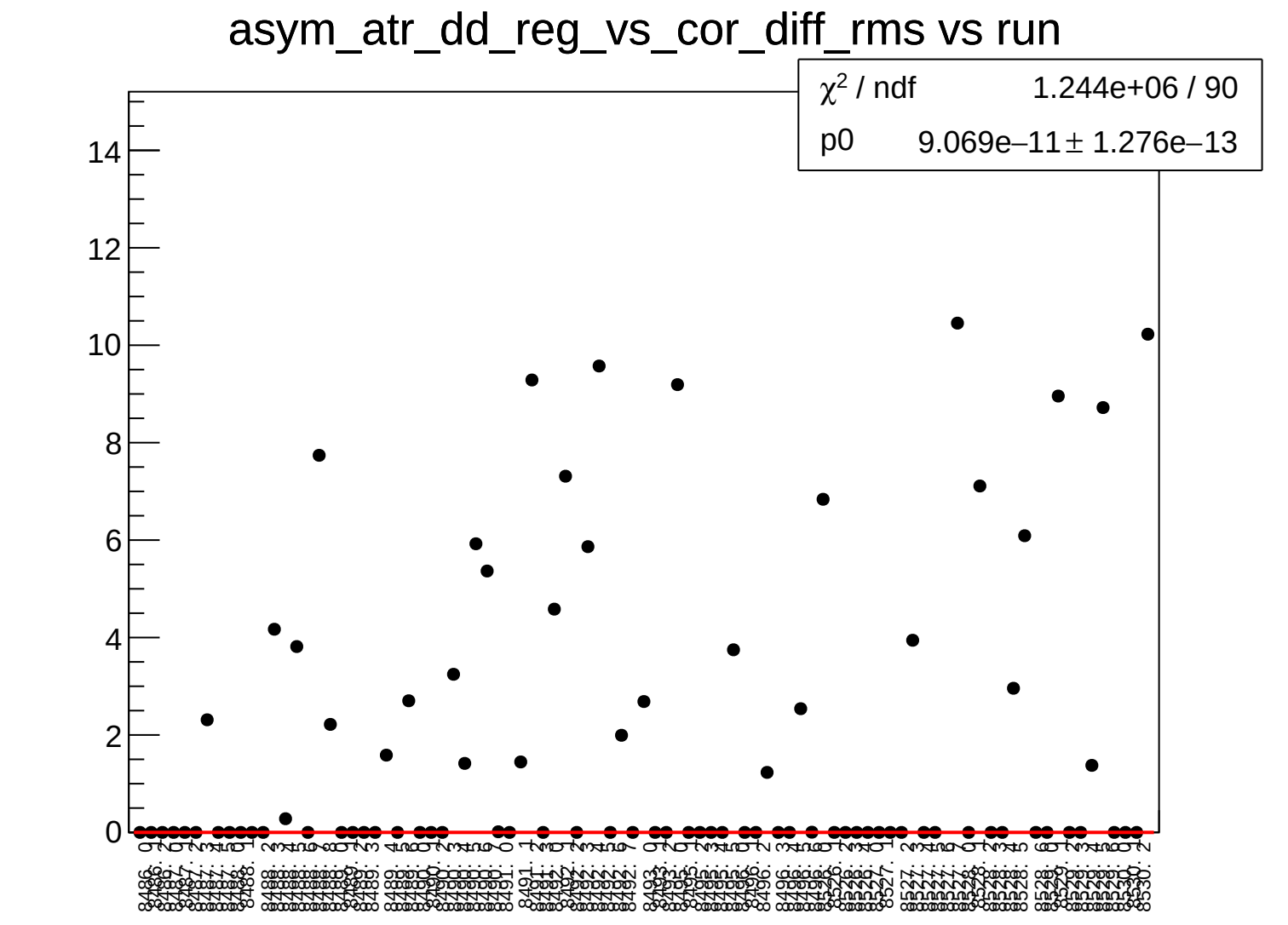

asym_atr_dd_mean vs run
×10^3
χ² / ndf 85.06 / 90
p0 6623 ± 2.142e+04
pull
Entries 91
Mean −217.8
Std Dev 0

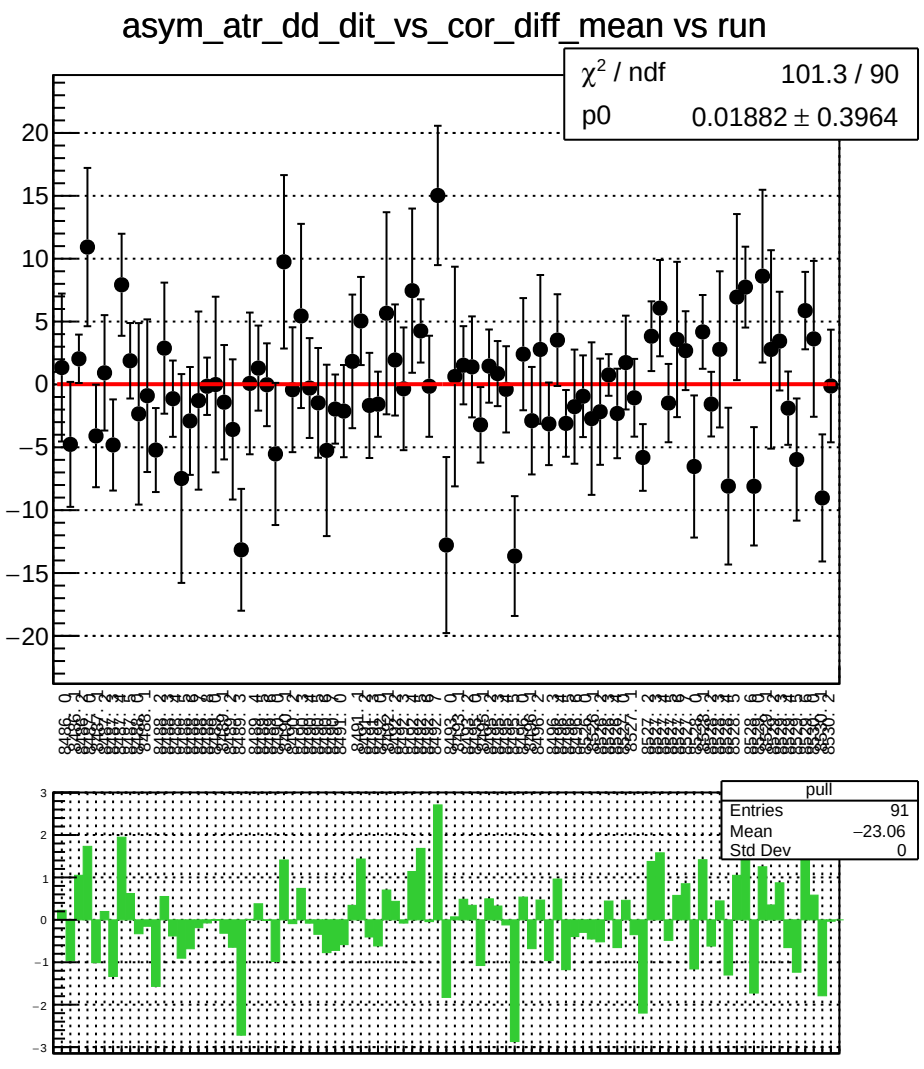

pull1D
Entries 91
Mean −0.007941
Std Dev 0.9668

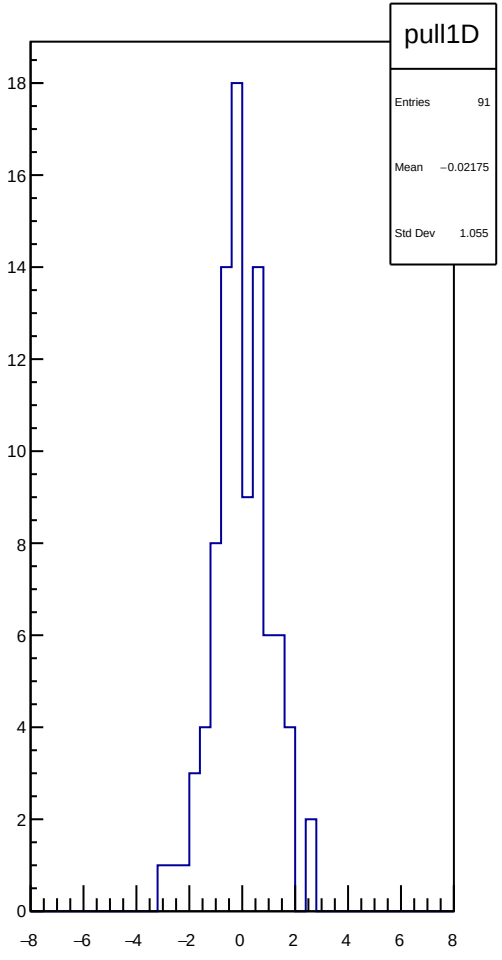

asym_atr_dd_rms vs run
χ² / ndf 98.86 / 90
p0 2.004e+04 ± 15.15
20600
20400
20200
20000
19800
19600
19400

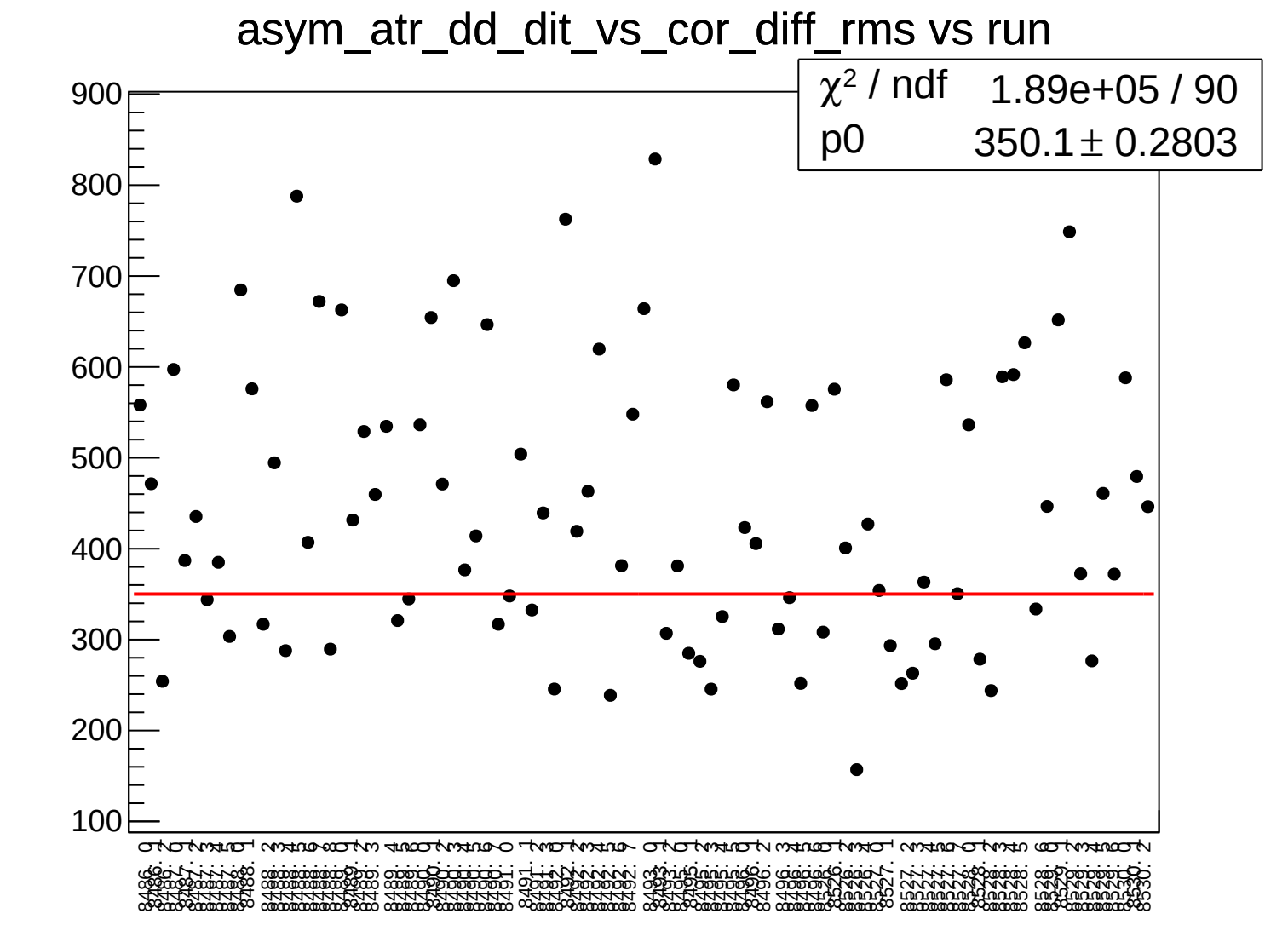

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 86.39 / 90
p0 1.074e−13 ± 1.805e−13
pull
Entries 91
Mean 52.77
Std Dev 17.45

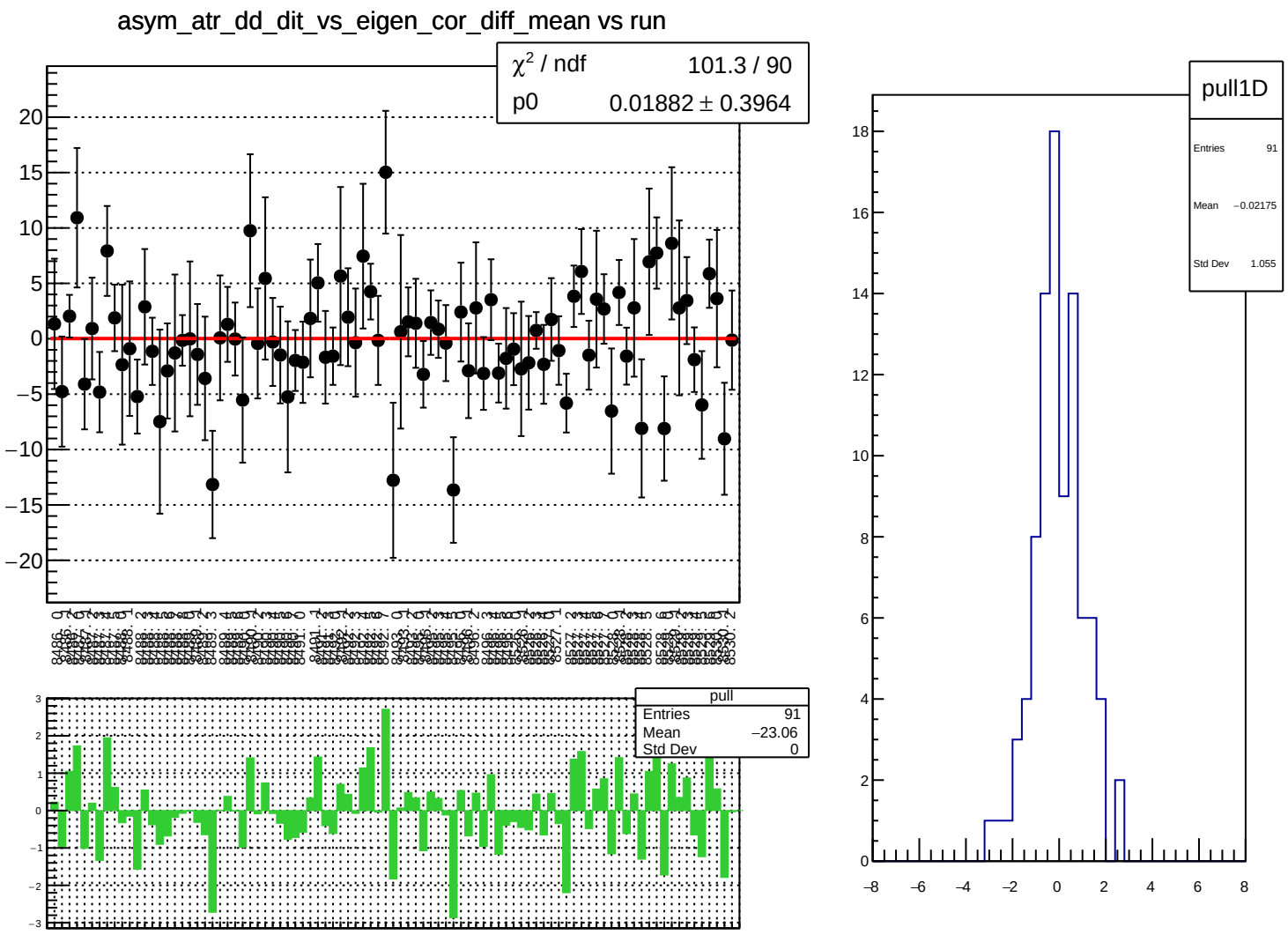

pull1D
Entries 91
Mean 0.09076
Std Dev 0.9701

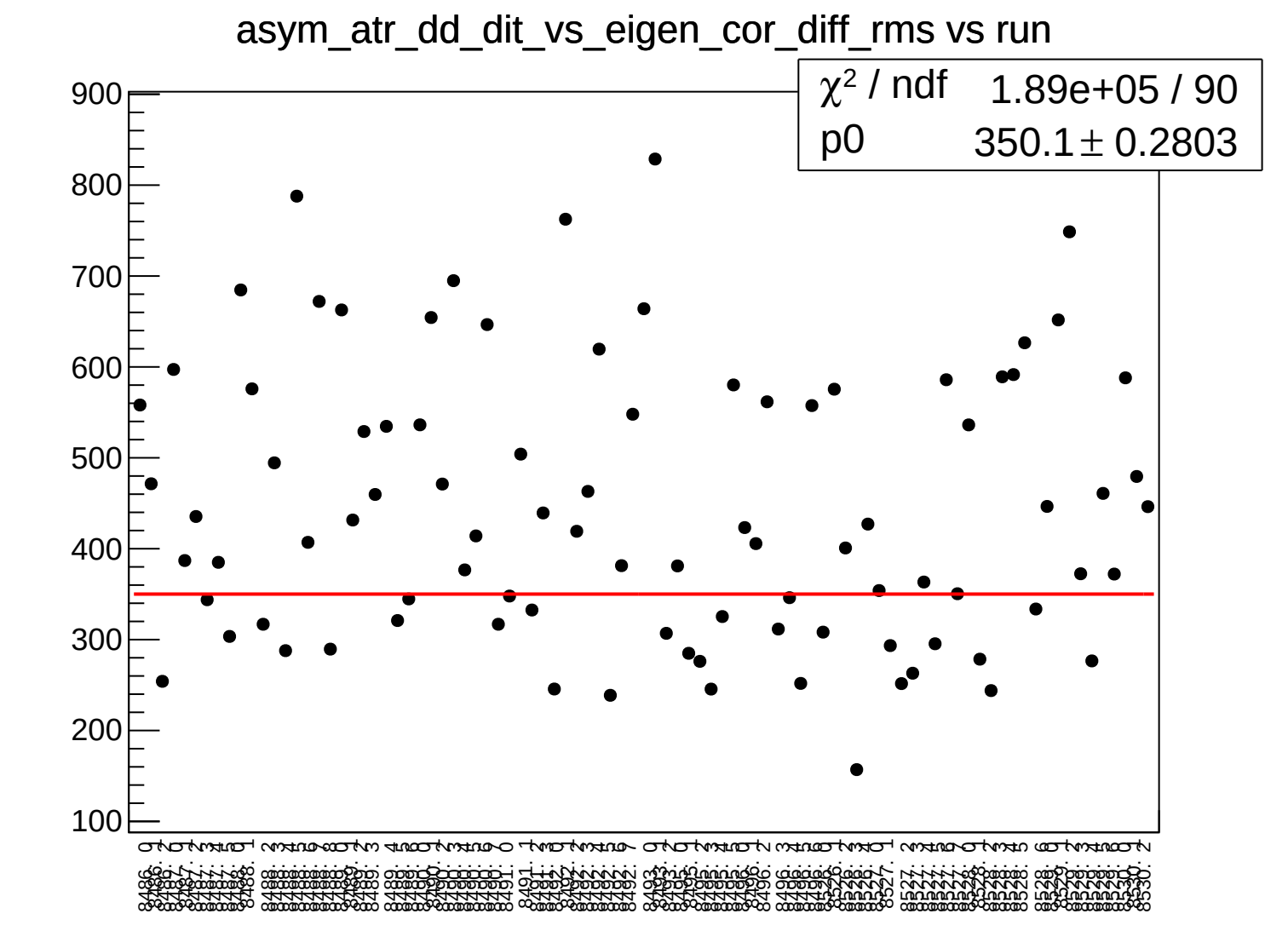

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.244e+06 / 90
p0 9.069e−11 ± 1.276e−13
0
2
4
6
8
10
12
14

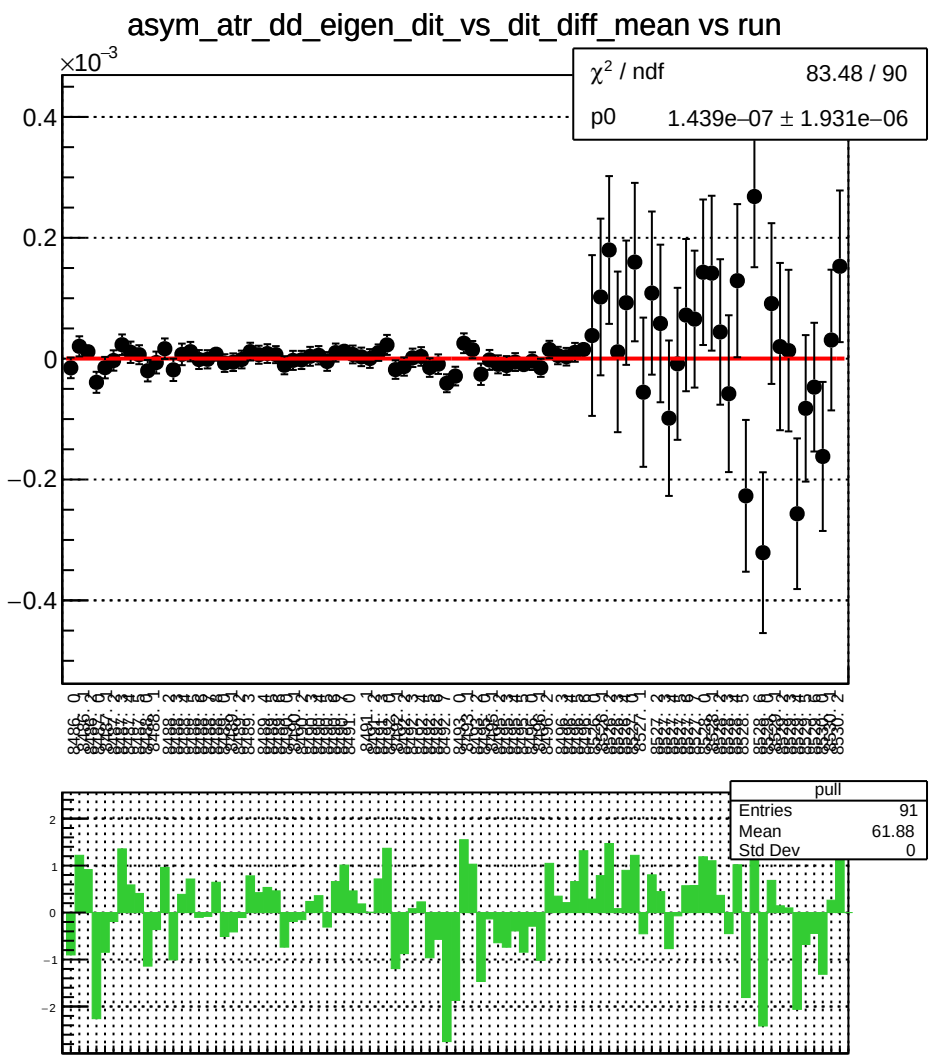

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 101.3 / 90
p0 0.01882 ± 0.3964
pull
Entries 91
Mean −23.06
Std Dev 0

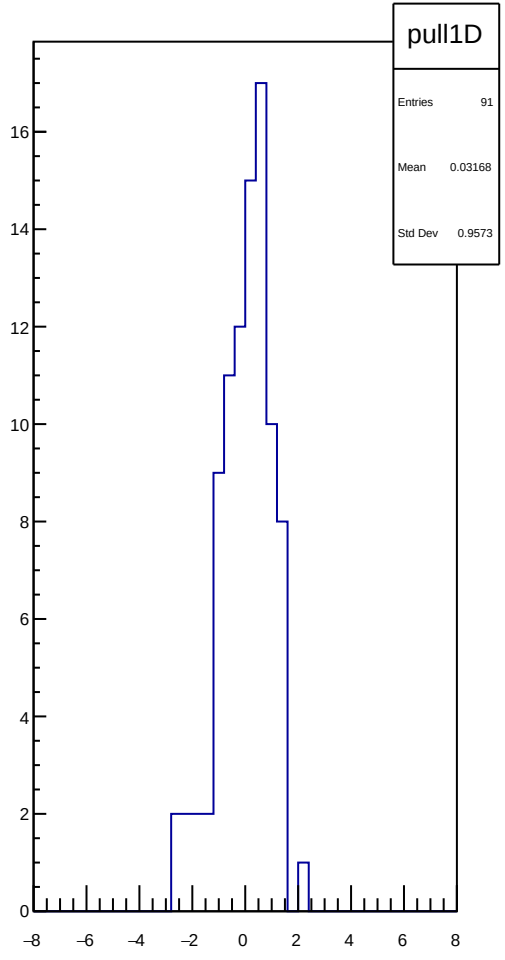

pull1D
Entries 91
Mean −0.02175
Std Dev 1.055

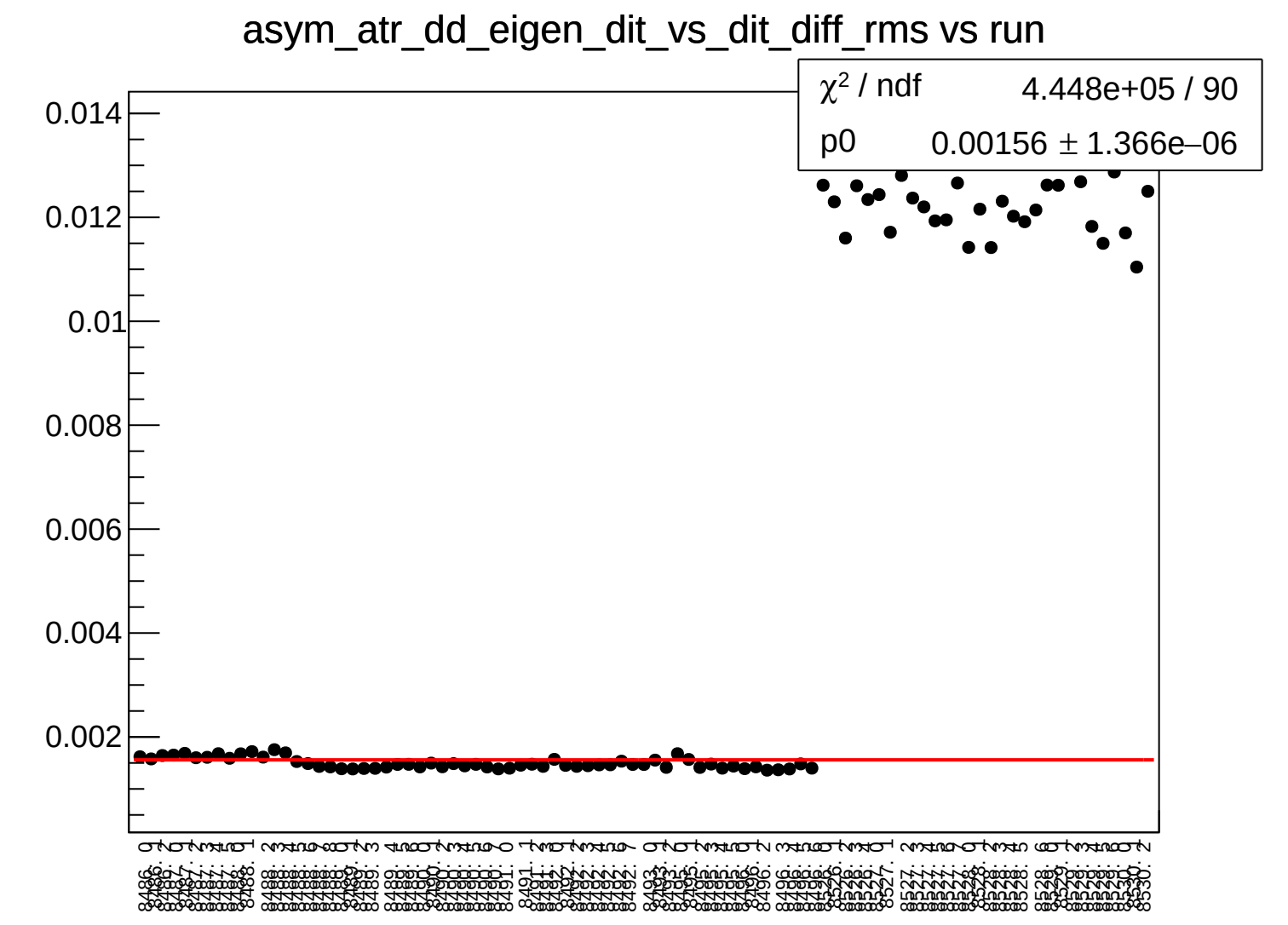

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.89e+05 / 90
p0 350.1 ± 0.2803
900
800
700
600
500
400
300
200
100

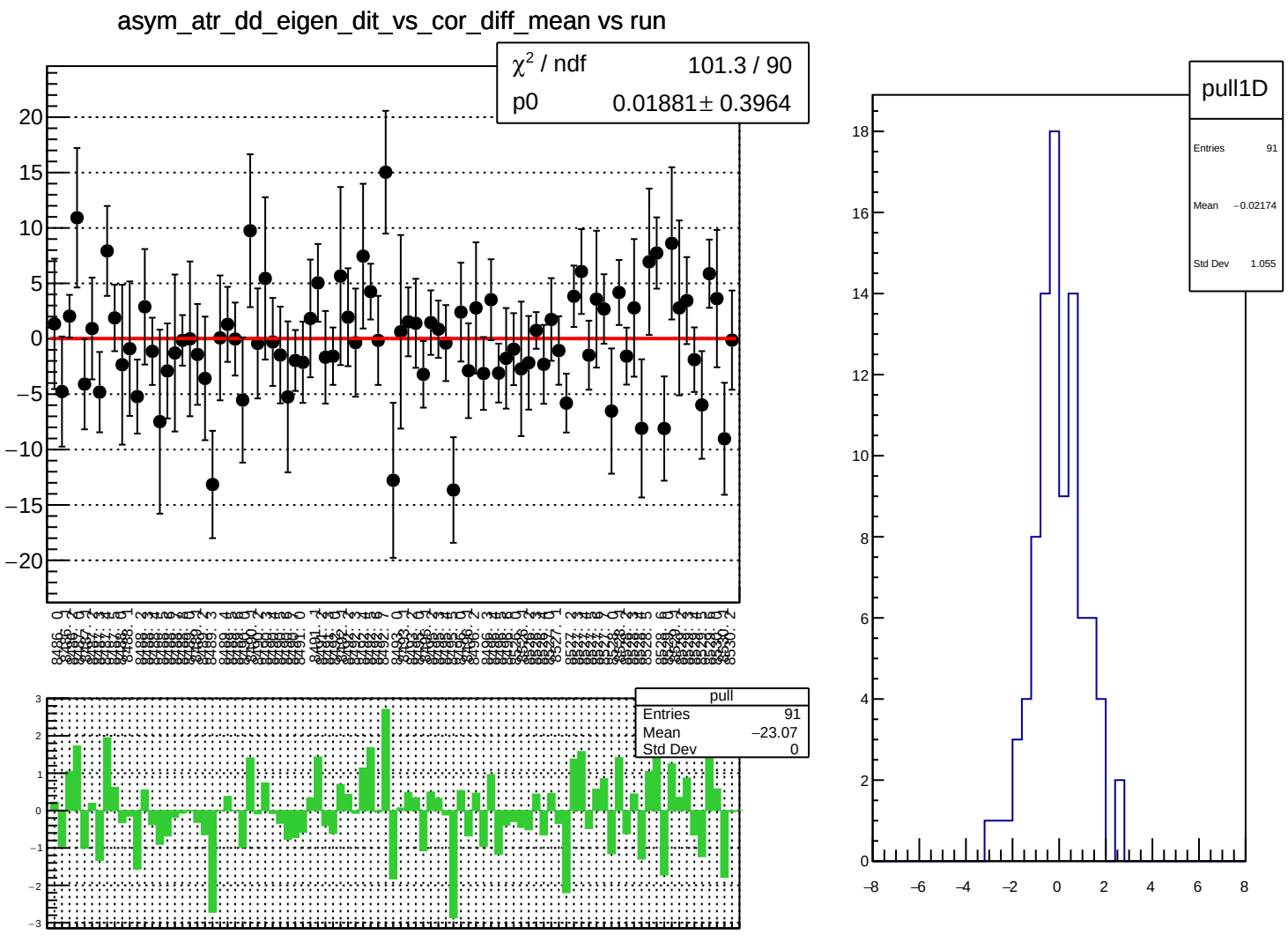

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.3 / 90
p0 0.01882 ± 0.3964
pull
Entries 91
Mean −23.06
Std Dev 0
pull1D
Entries 91
Mean −0.02175
Std Dev 1.055

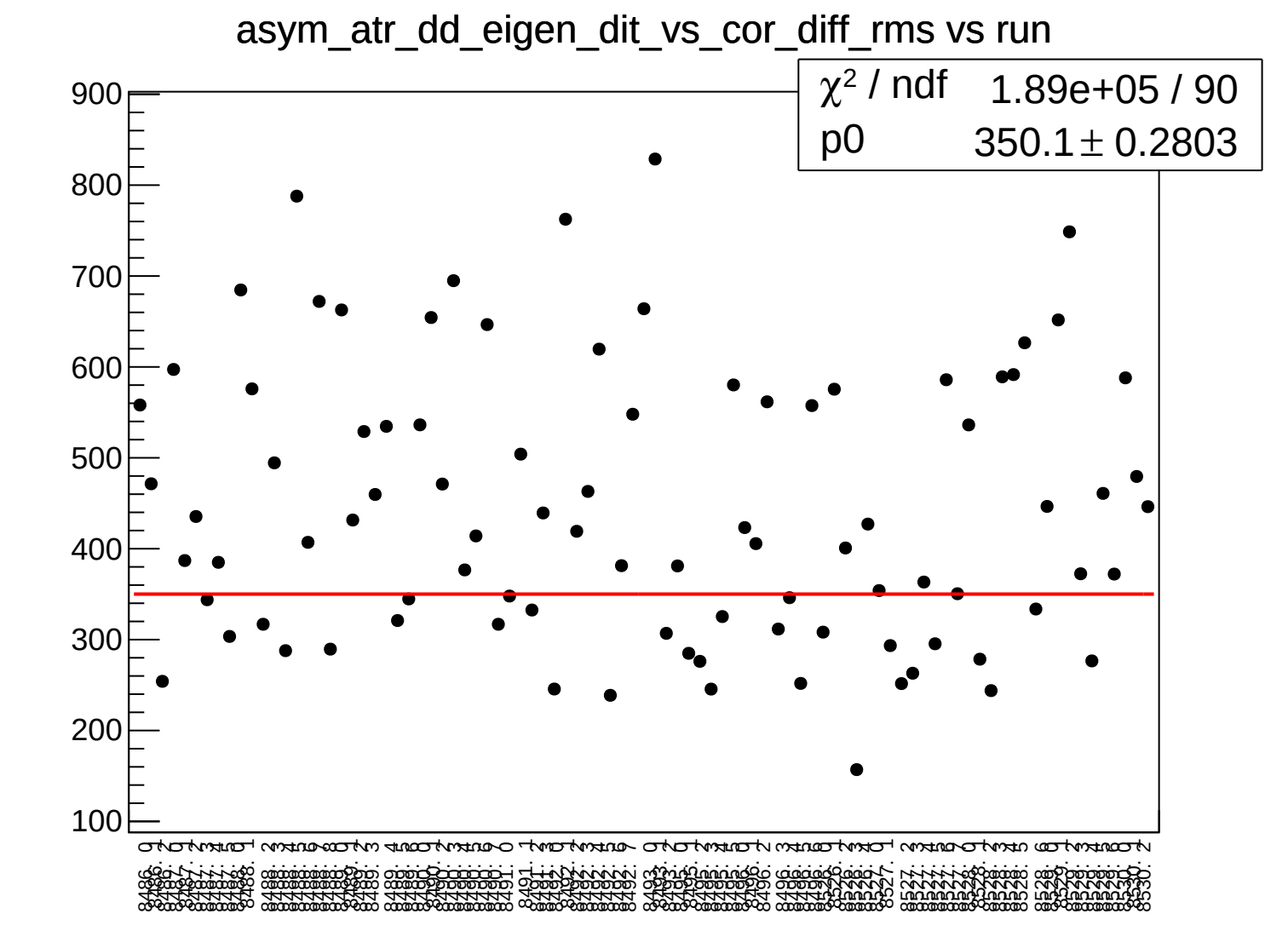

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.89e+05 / 90
p0 350.1 ± 0.2803
900
800
700
600
500
400
300
200
100

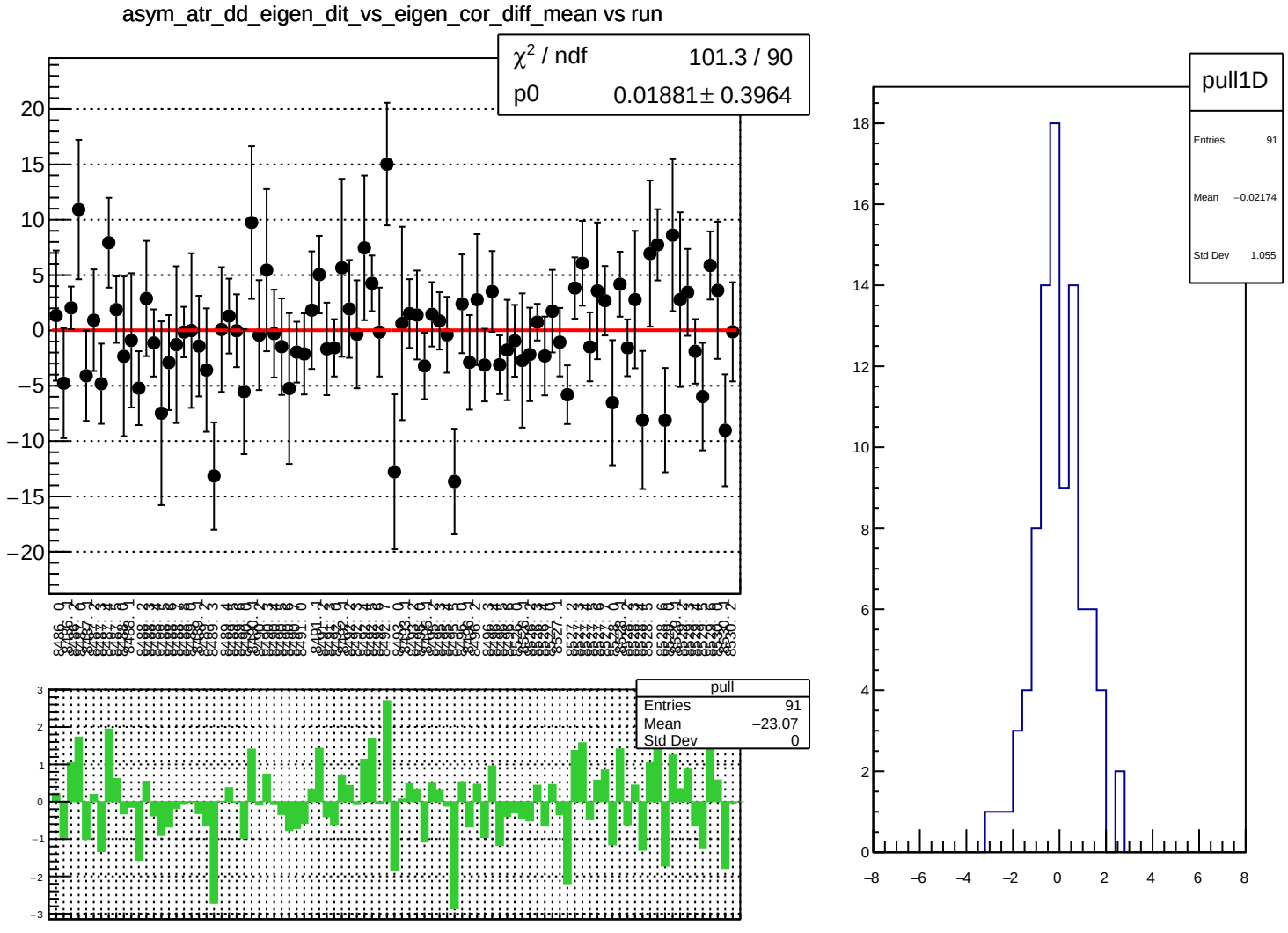

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.48 / 90
p0 1.439e−07 ± 1.931e−06
0.4
0.2
0
−0.2
−0.4
pull
Entries 91
Mean 61.88
Std Dev 0
2
1
0
−1
−2

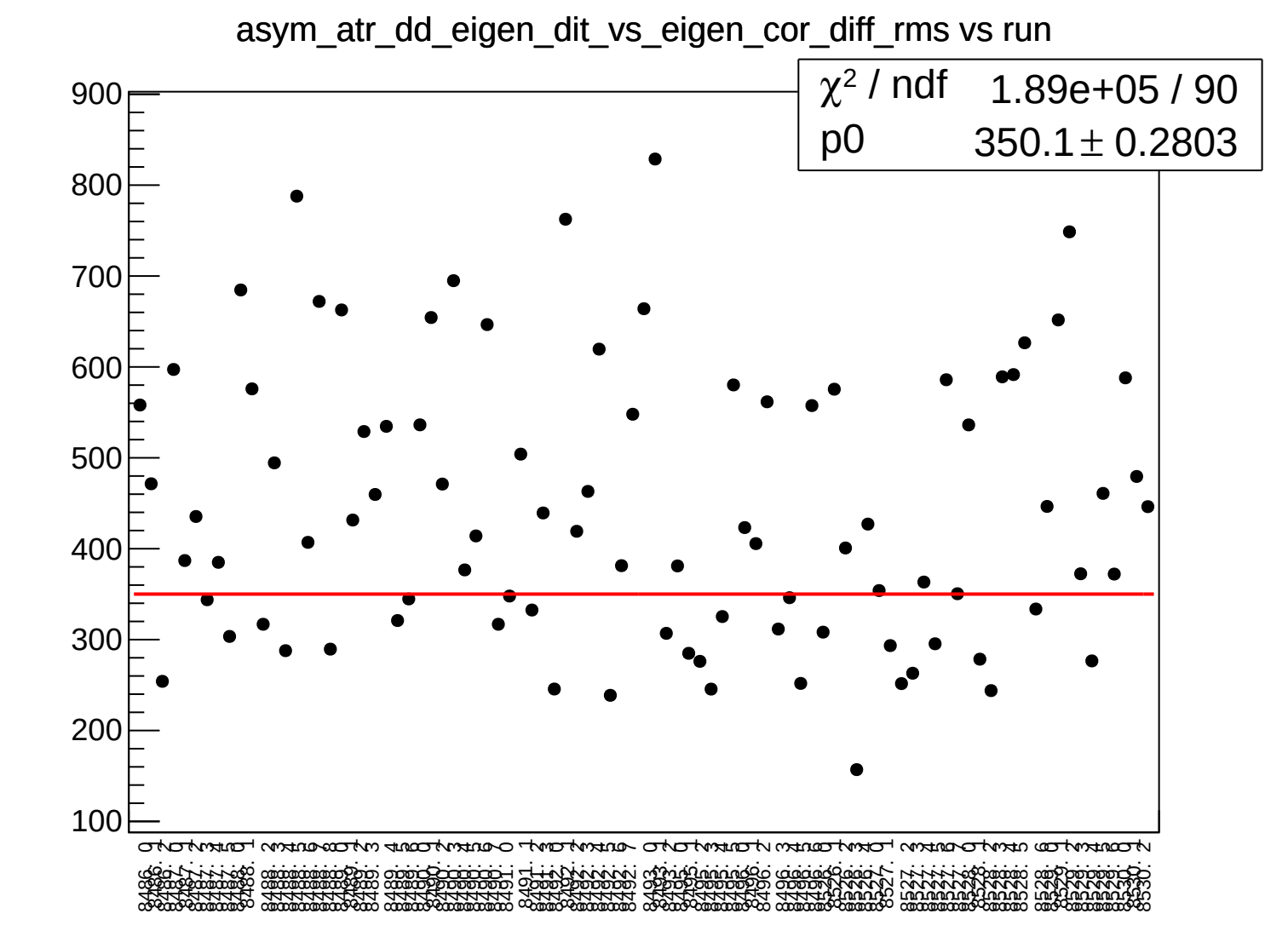

pull1D
Entries 91
Mean 0.03168
Std Dev 0.9573
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

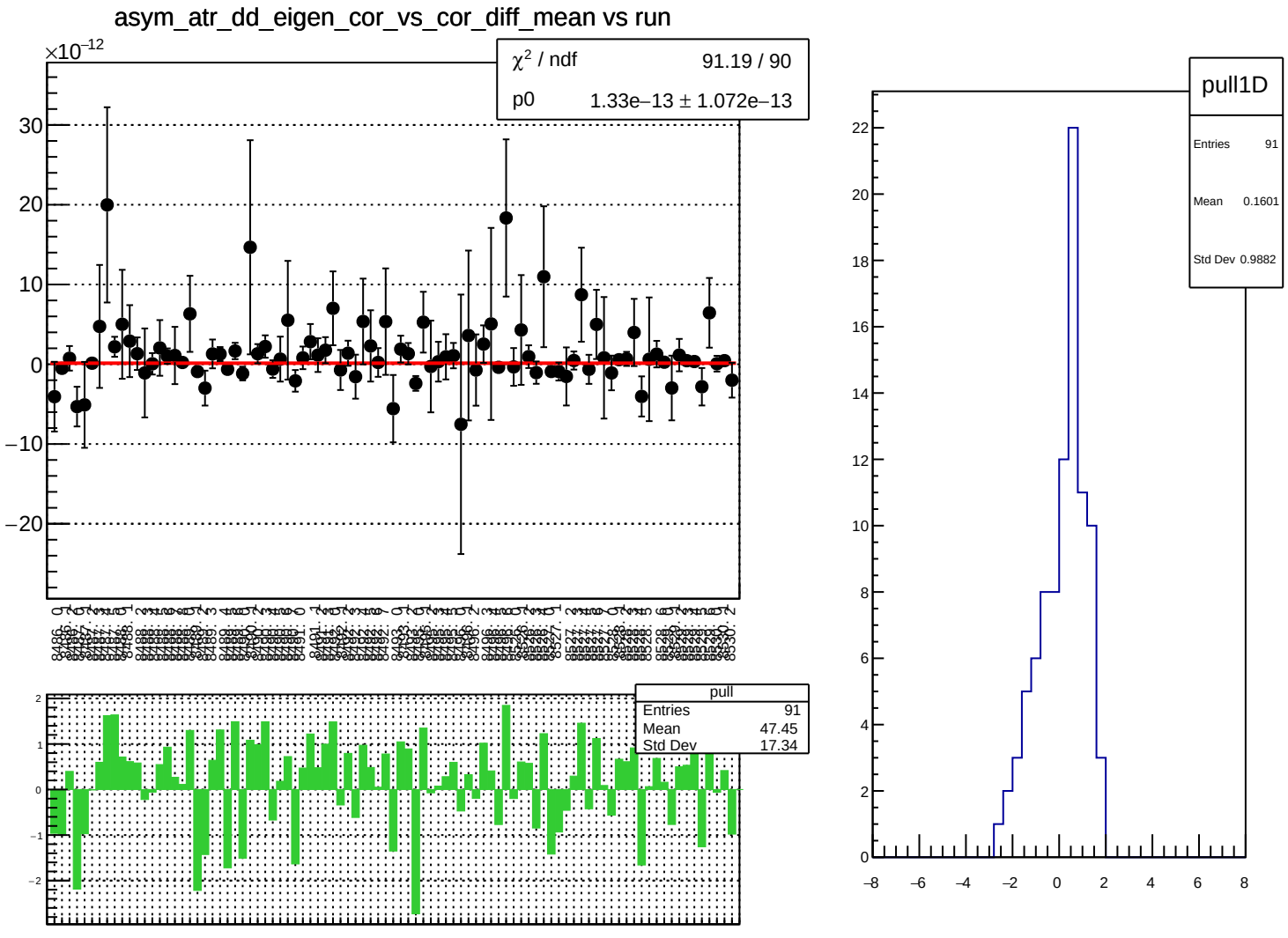

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.448e+05 / 90
p0 0.00156 ± 1.366e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002

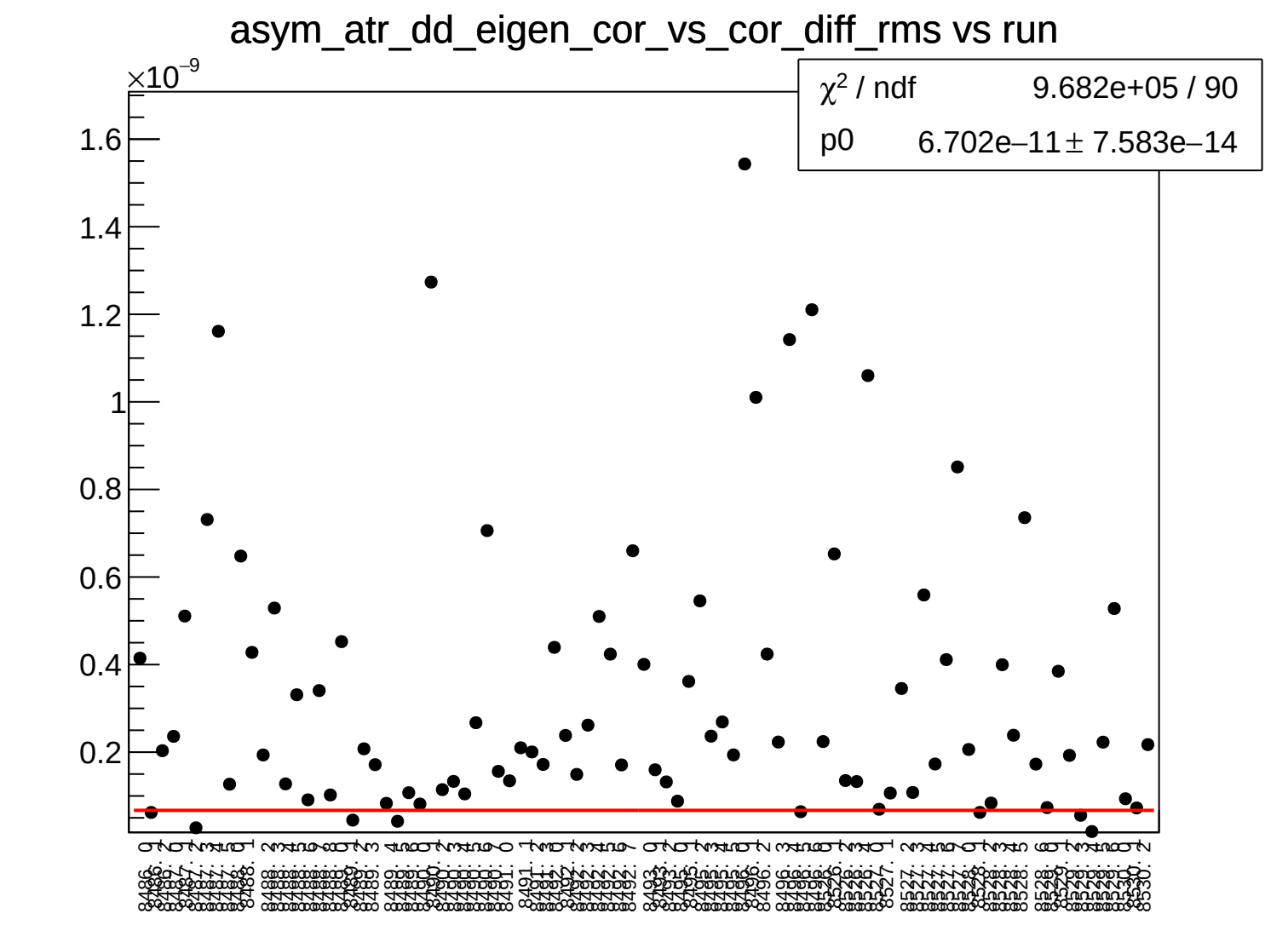

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101.3 / 90
p0 0.01881 ± 0.3964
pull
Entries 91
Mean −23.07
Std Dev 0
pull1D
Entries 91
Mean −0.02174
Std Dev 1.055

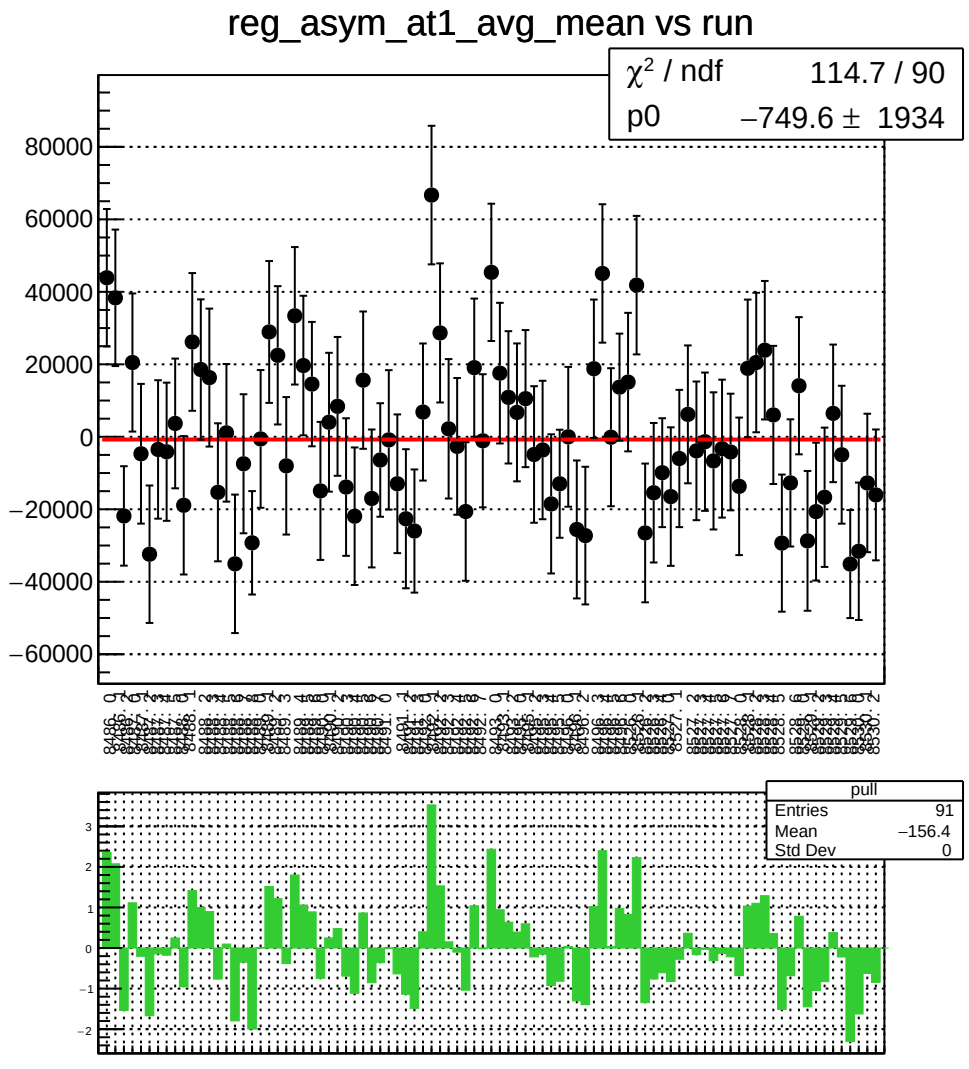

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.89e+05 / 90
p0 350.1 ± 0.2803
900
800
700
600
500
400
300
200
100

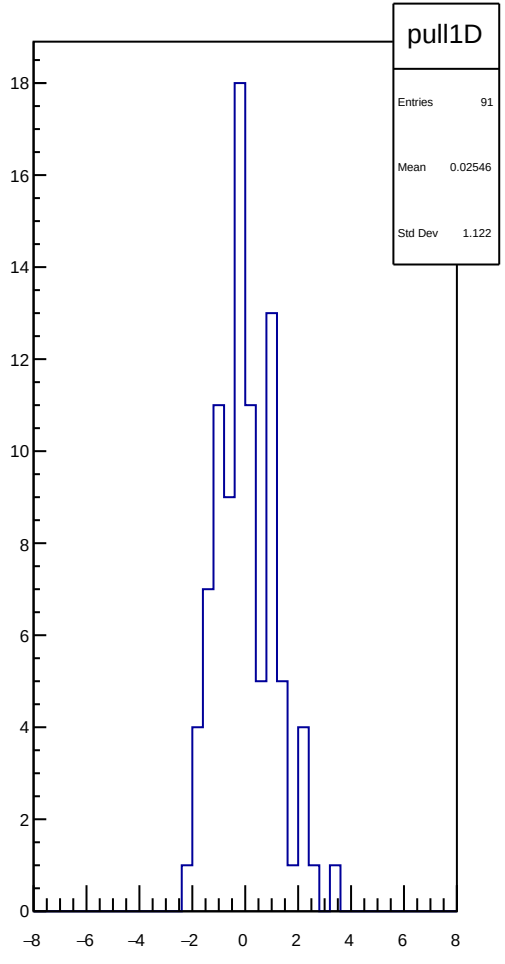

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.3 / 90
p0 0.01881± 0.3964
pull
Entries 91
Mean −23.07
Std Dev 0
pull1D
Entries 91
Mean −0.02174
Std Dev 1.055

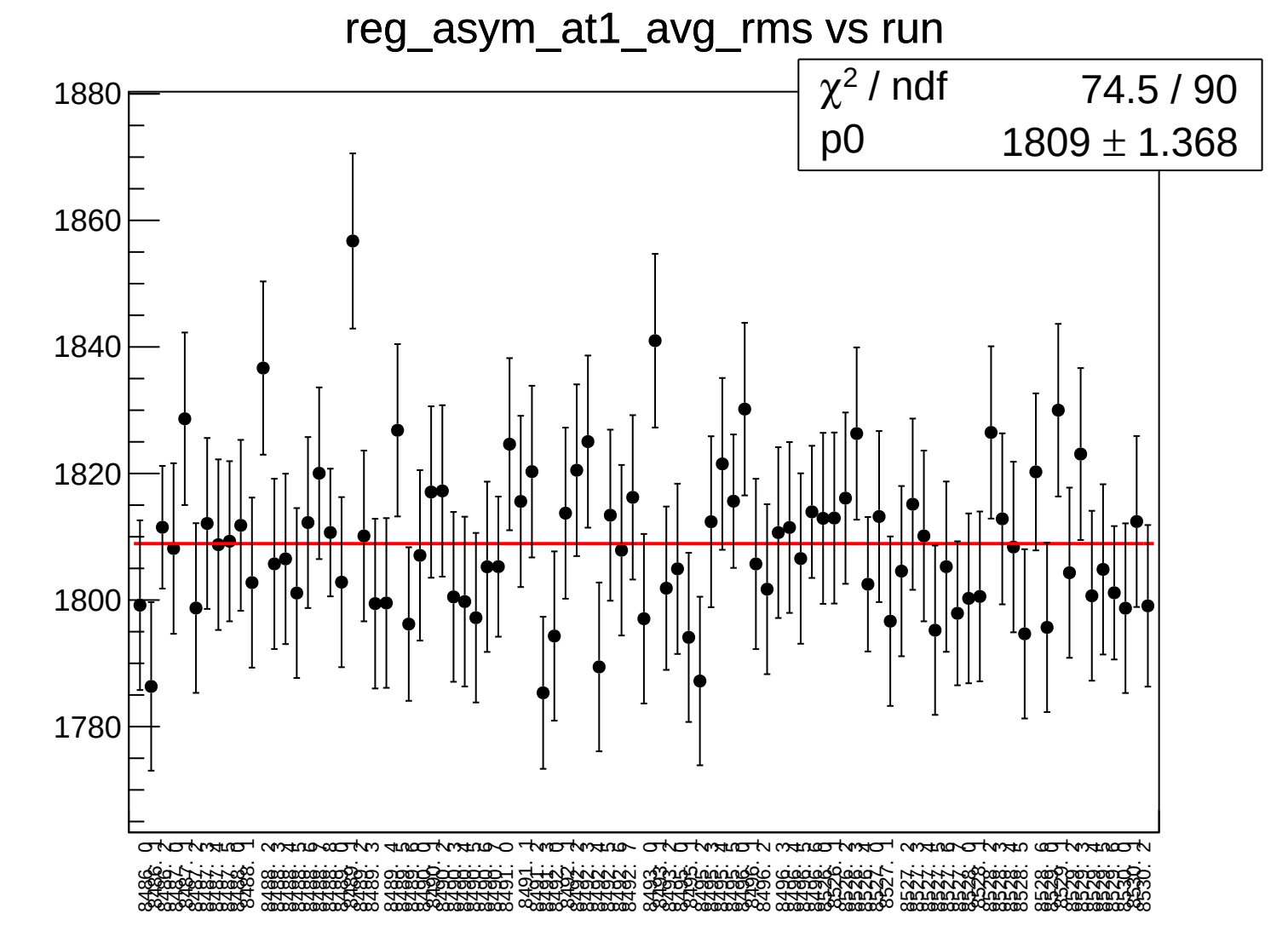

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.89e+05 / 90
p0 350.1 ± 0.2803
900
800
700
600
500
400
300
200
100

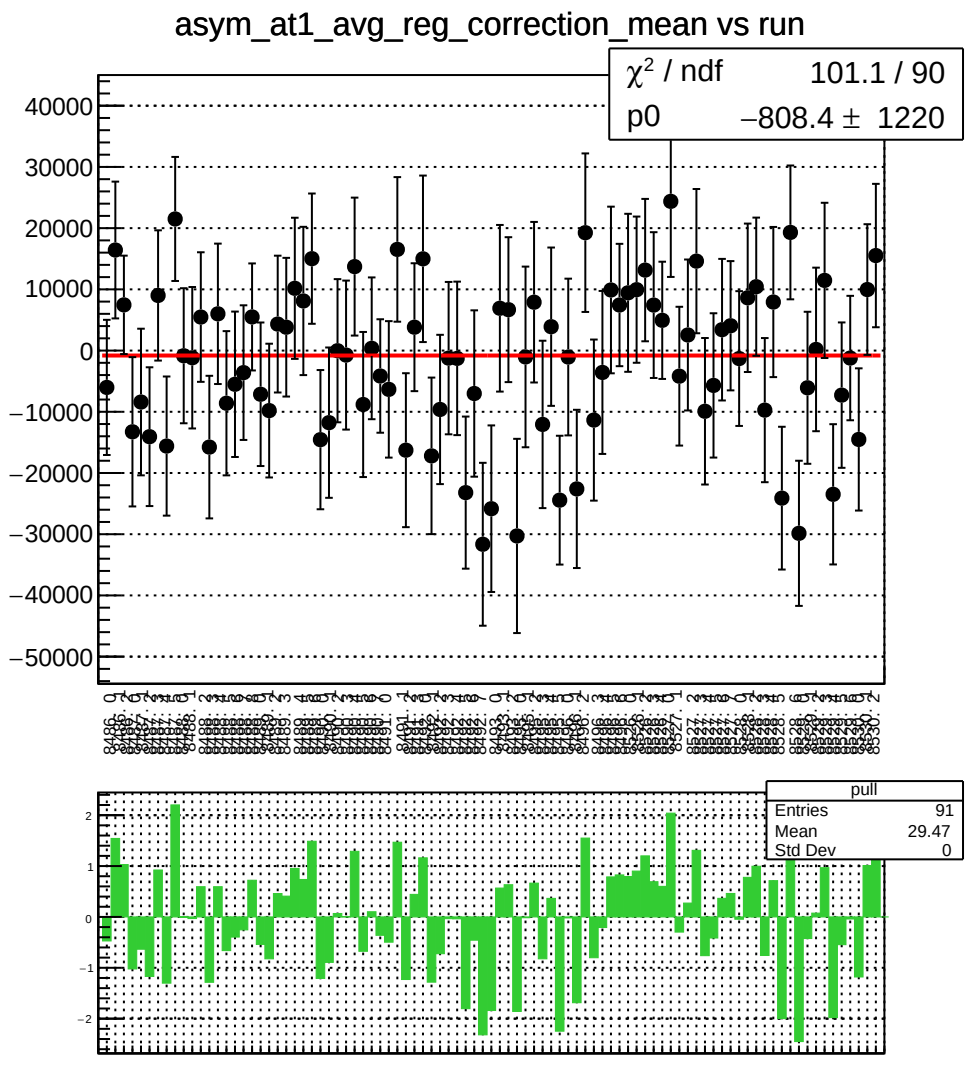

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.19 / 90
p0 1.33e−13 ± 1.072e−13
30
20
10
0
−10
−20
pull
Entries 91
Mean 47.45
Std Dev 17.34
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.1601
Std Dev 0.9882
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

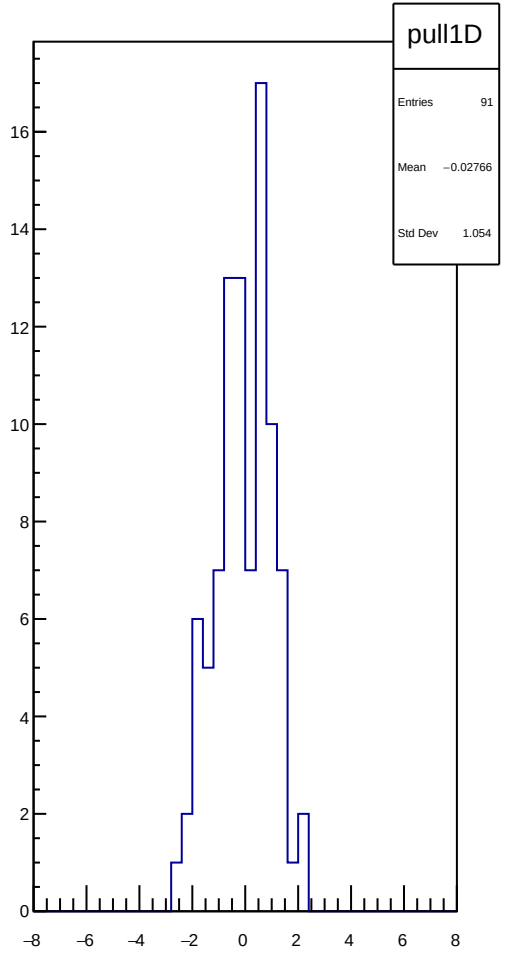

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.682e+05 / 90
p0 6.702e−11 ± 7.583e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

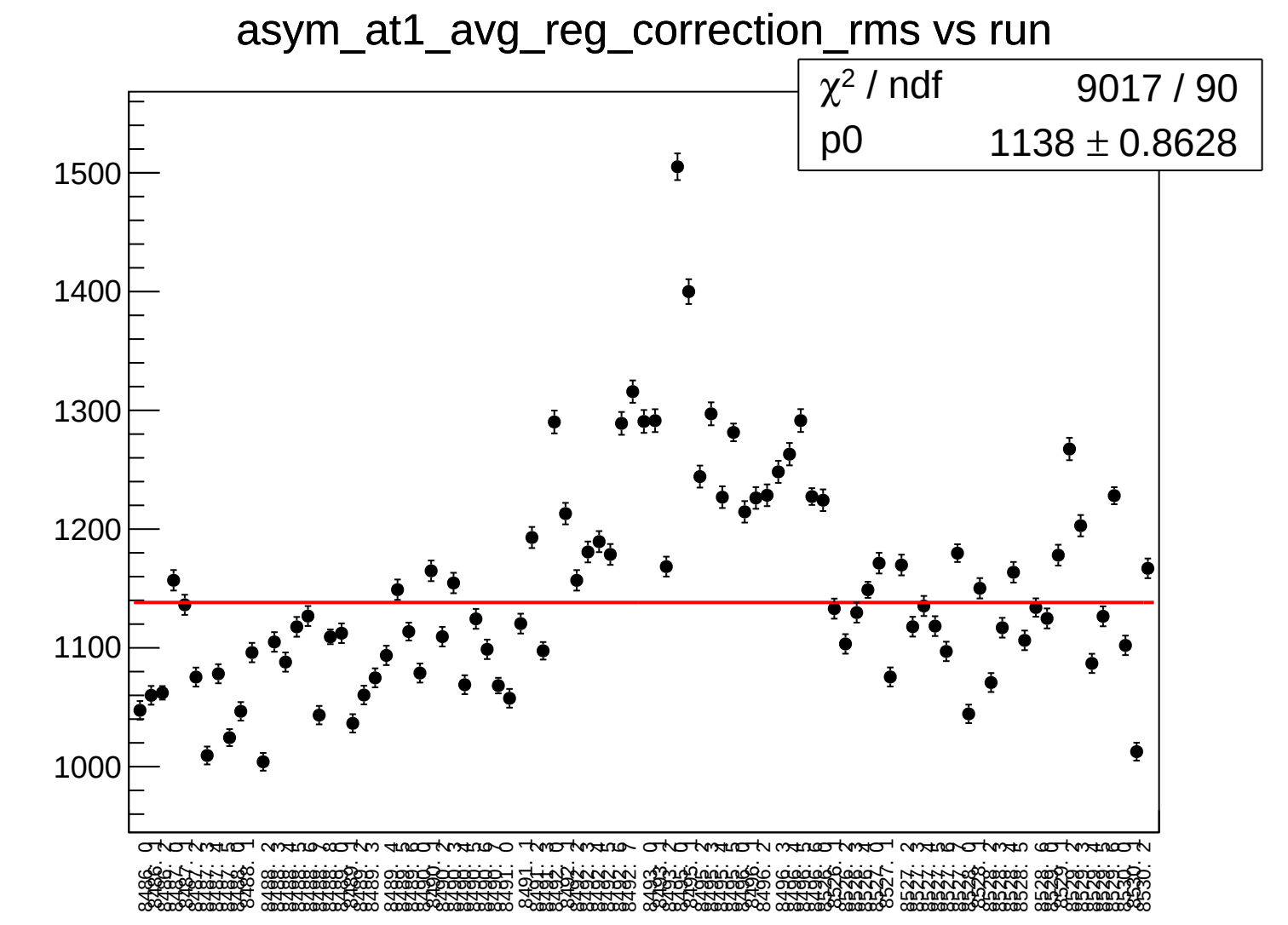

reg_asym_at1_avg_mean vs run
χ² / ndf 114.7 / 90
p0 −749.6 ± 1934
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −156.4
Std Dev 0
3
2
1
0
−1
−2

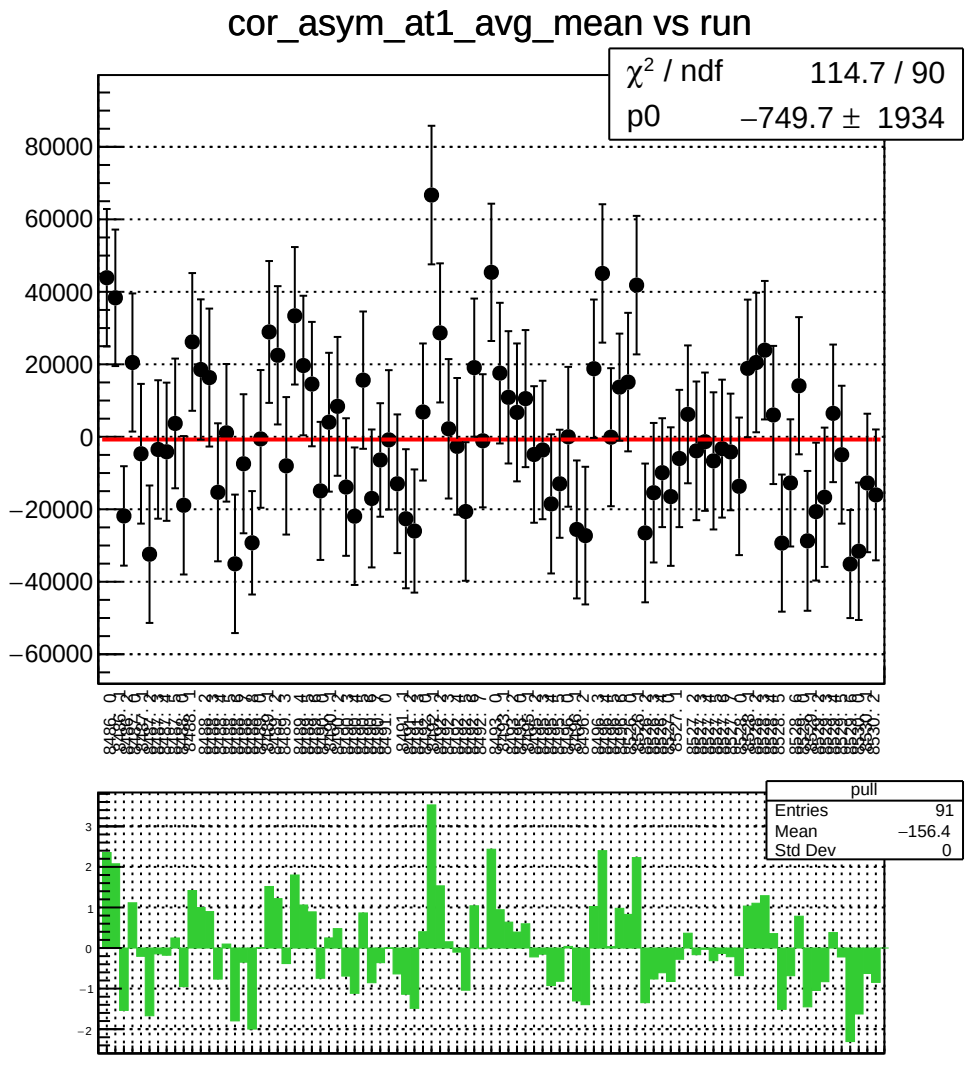

pull1D
Entries 91
Mean 0.02546
Std Dev 1.122
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

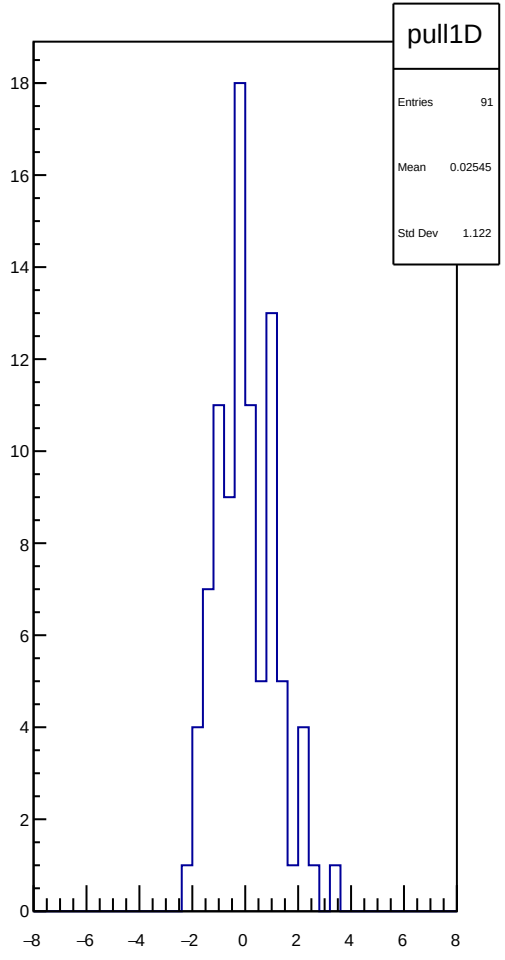

reg_asym_at1_avg_rms vs run
χ² / ndf 74.5 / 90
p0 1809 ± 1.368
1880
1860
1840
1820
1800
1780

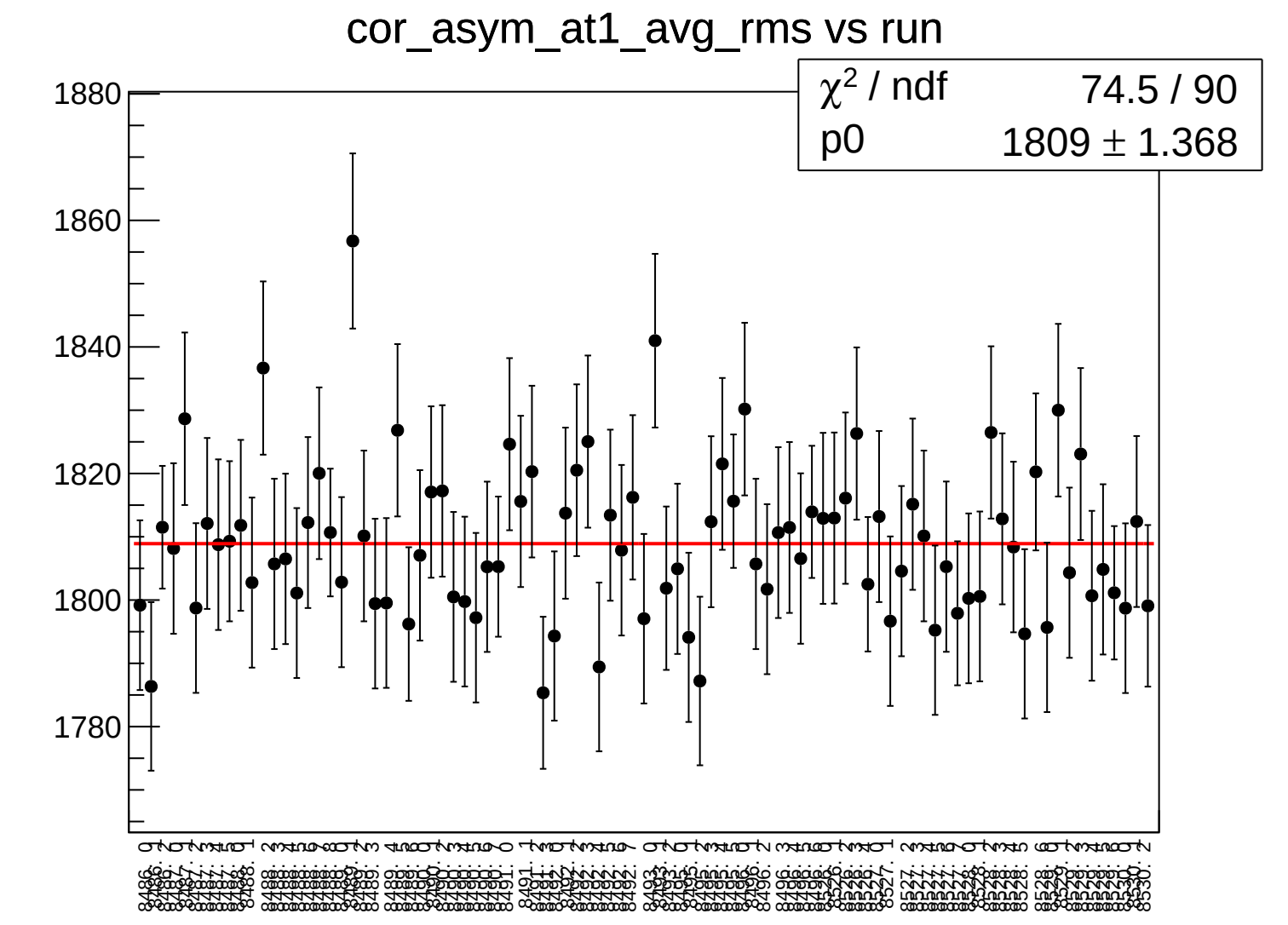

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 101.1 / 90
p0 −808.4 ± 1220
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 91
Mean 29.47
Std Dev 0
2
1
0
−1
−2

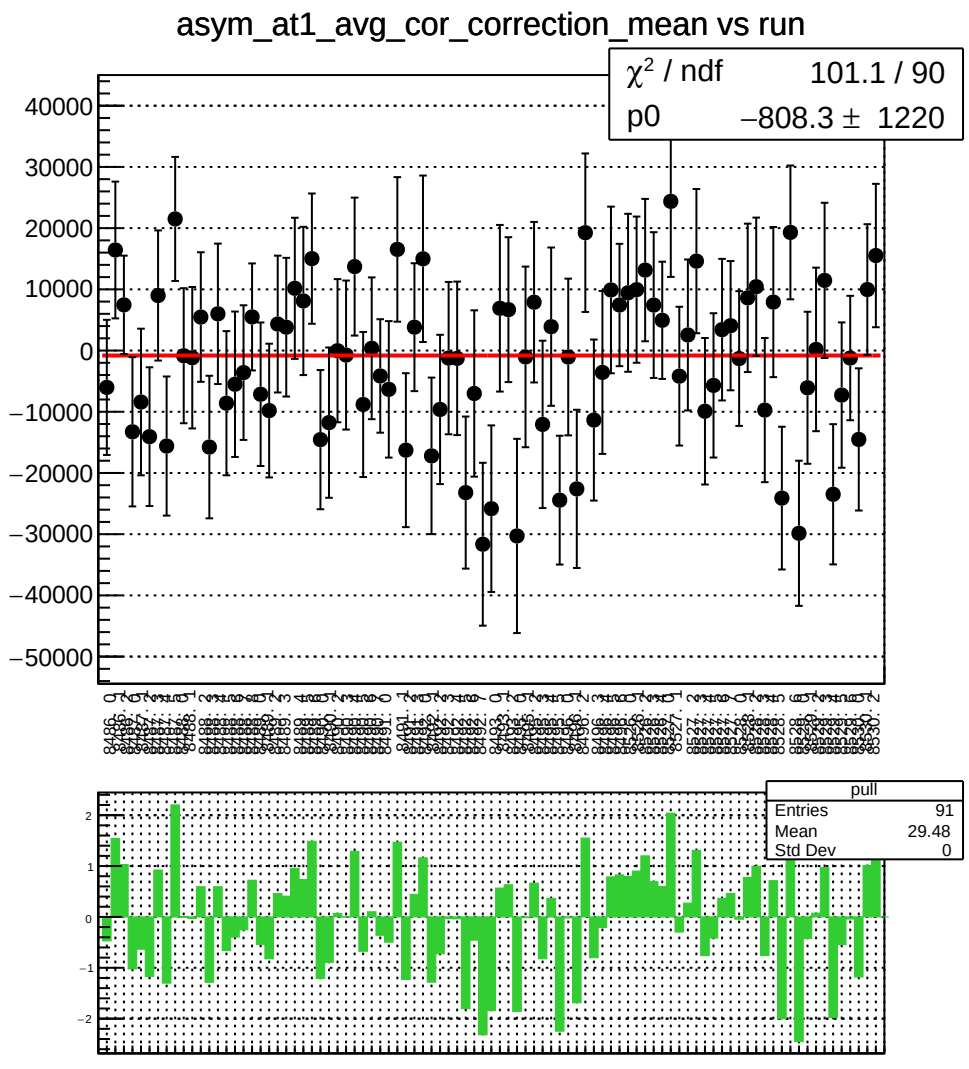

pull1D
Entries 91
Mean −0.02766
Std Dev 1.054
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

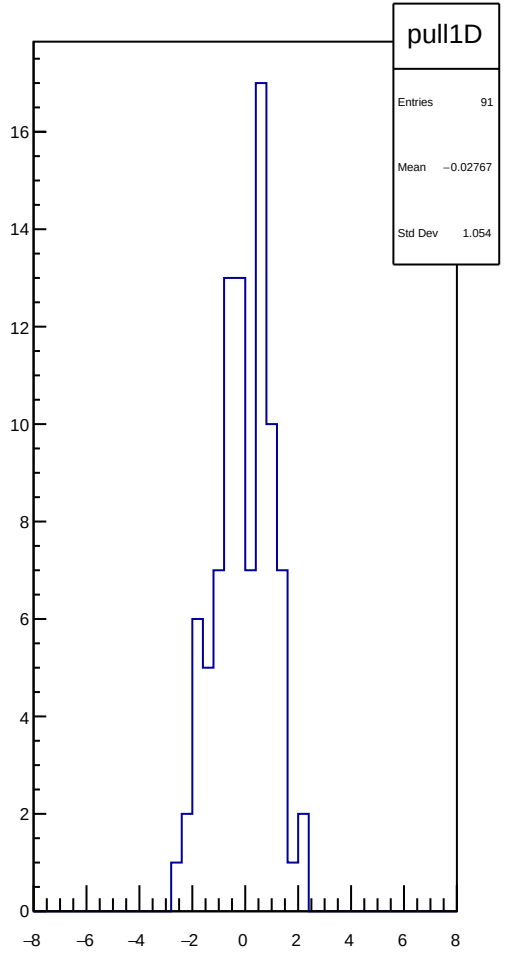

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 9017 / 90
p0 1138 ± 0.8628
1500
1400
1300
1200
1100
1000

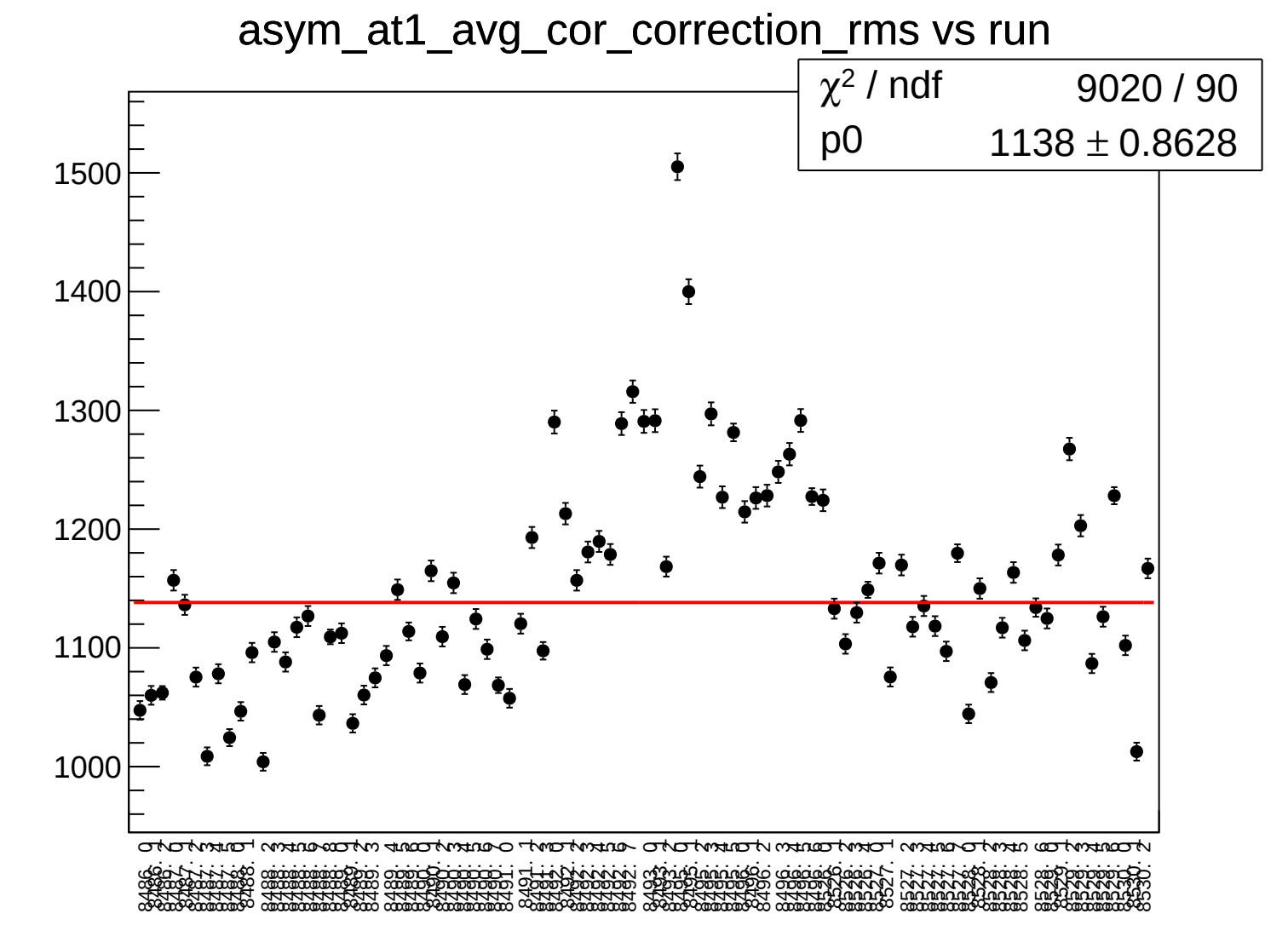

cor_asym_at1_avg_mean vs run
χ² / ndf 114.7 / 90
p0 −749.7 ± 1934
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −156.4
Std Dev 0
3
2
1
0
−1
−2

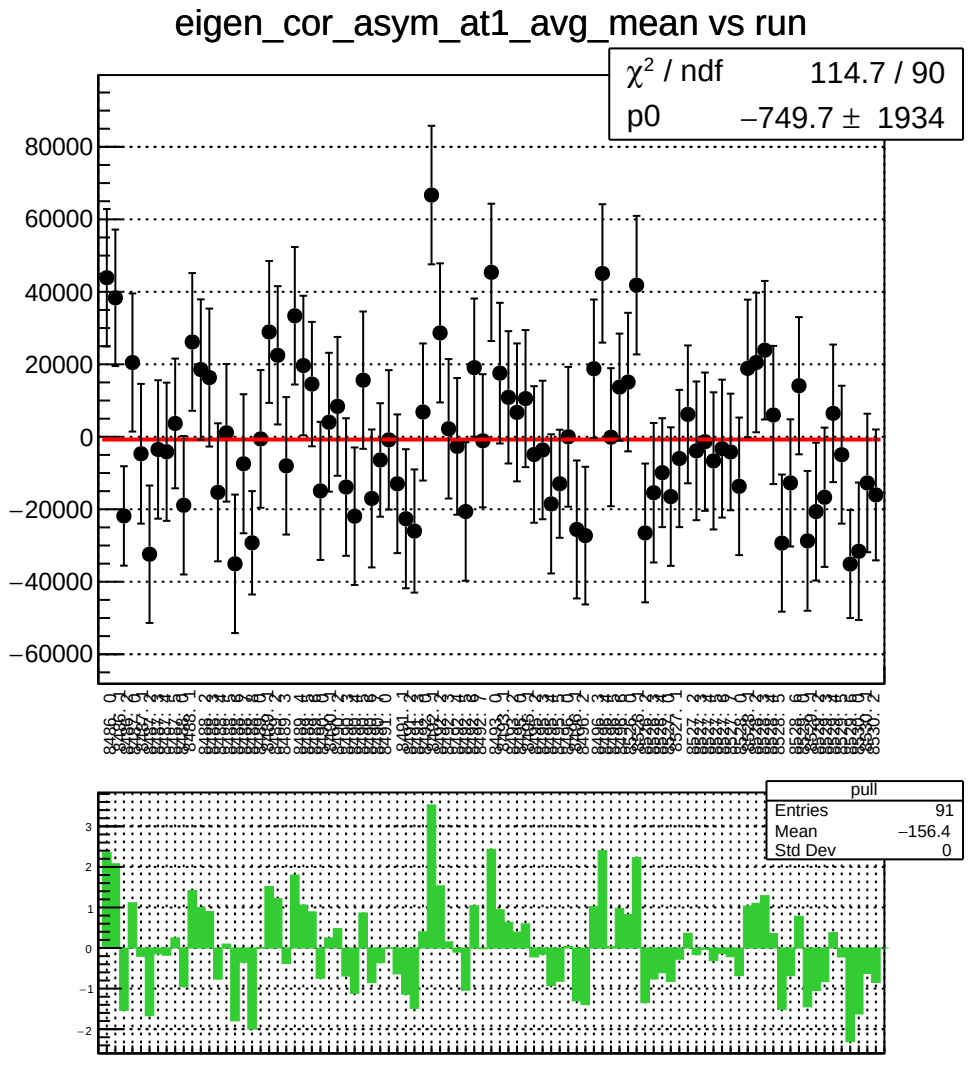

pull1D
Entries 91
Mean 0.02545
Std Dev 1.122
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

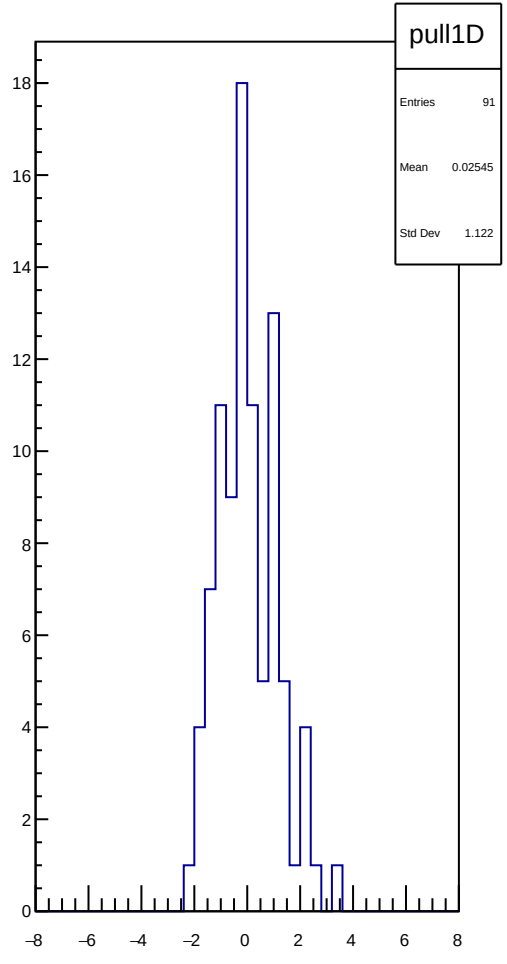

cor_asym_at1_avg_rms vs run
χ² / ndf 74.5 / 90
p0 1809 ± 1.368
1880
1860
1840
1820
1800
1780

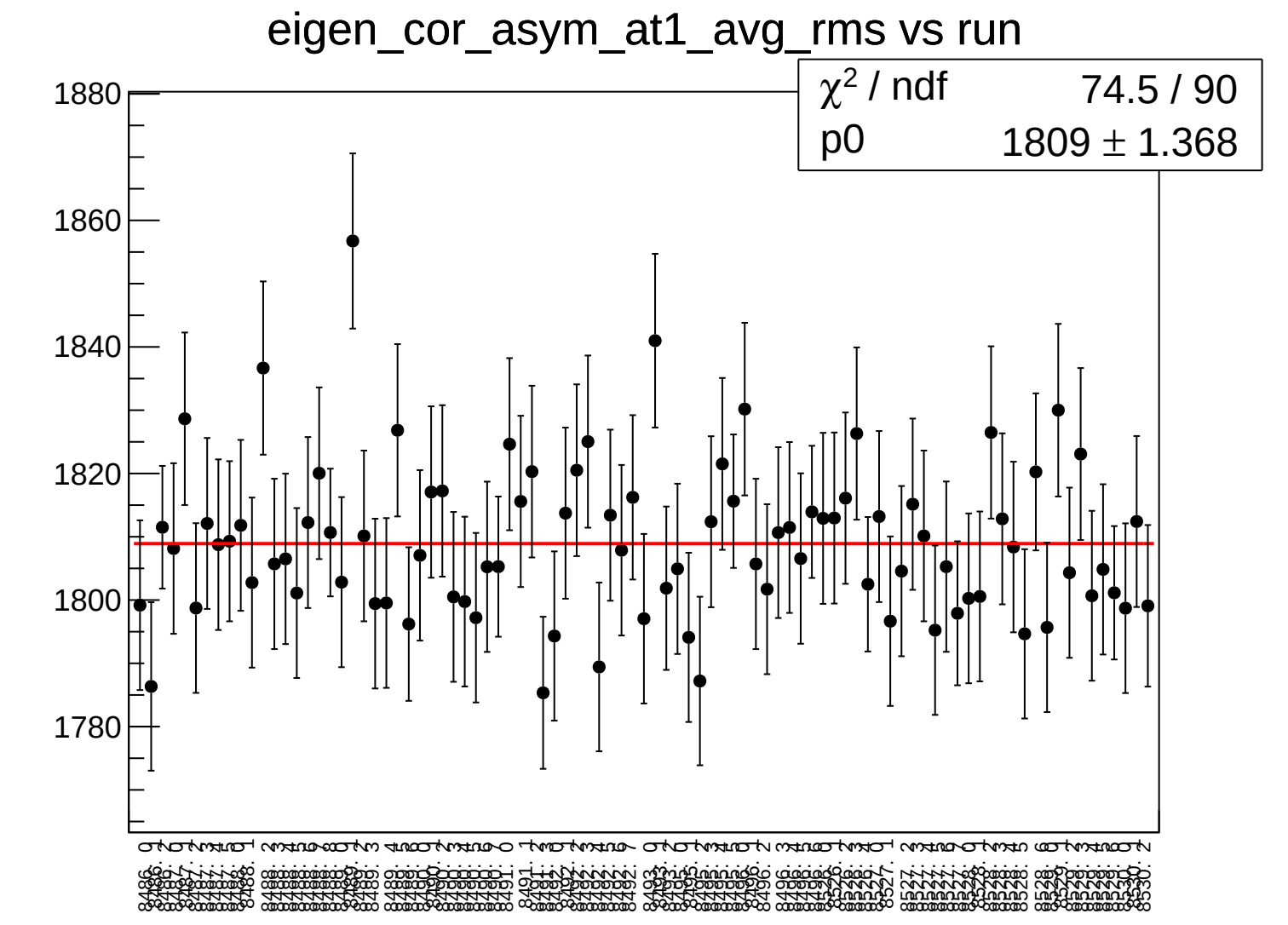

asym_at1_avg_cor_correction_mean vs run
χ² / ndf 101.1 / 90
p0 −808.3 ± 1220
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 91
Mean 29.48
Std Dev 0
2
1
0
−1
−2

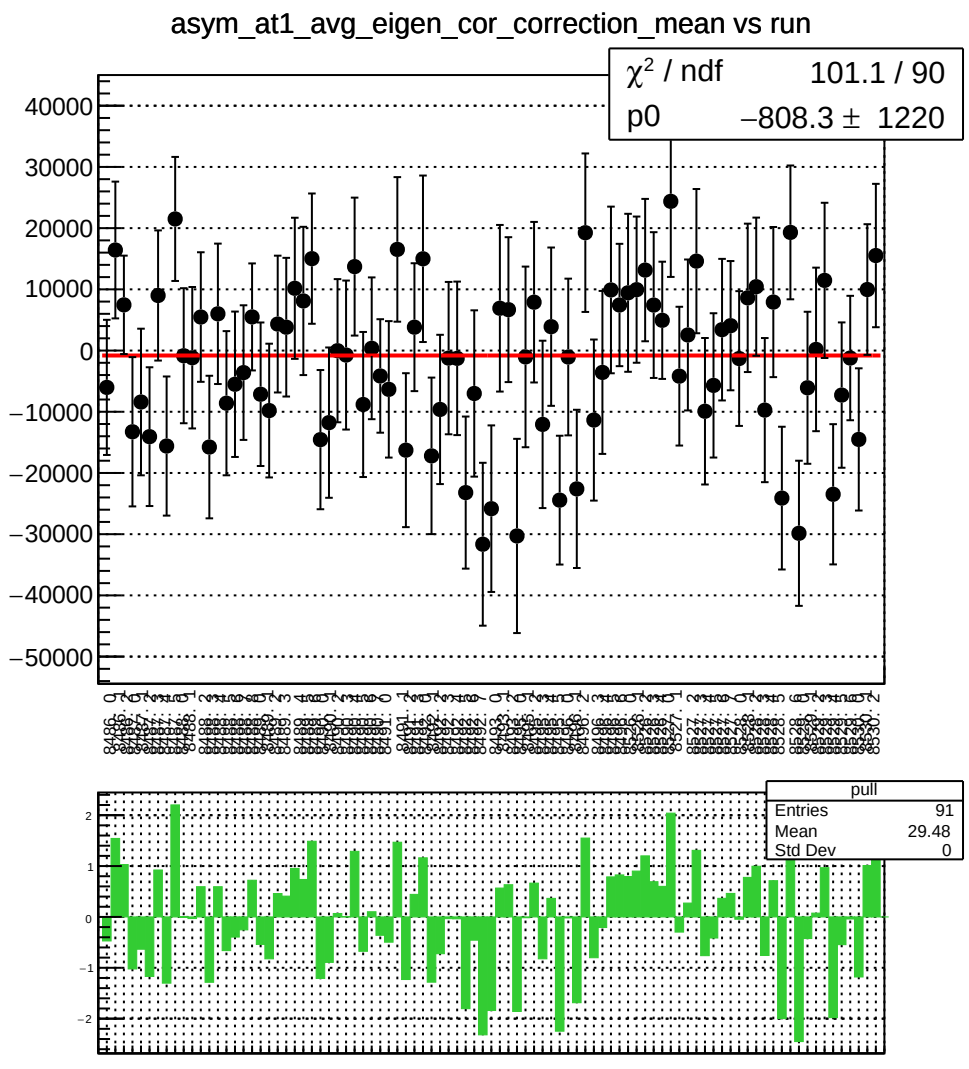

pull1D
Entries 91
Mean −0.02767
Std Dev 1.054
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

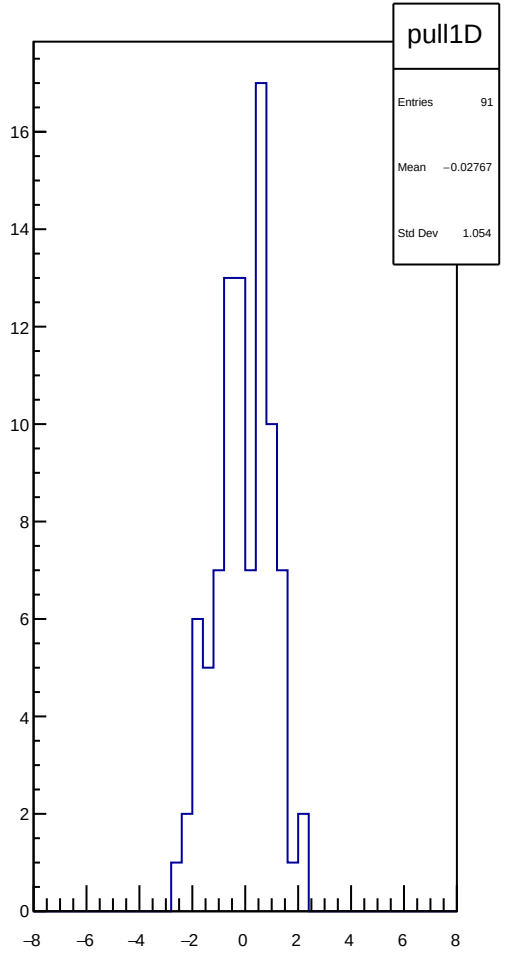

asym_at1_avg_cor_correction_rms vs run
χ² / ndf 9020 / 90
p0 1138 ± 0.8628
1500
1400
1300
1200
1100
1000

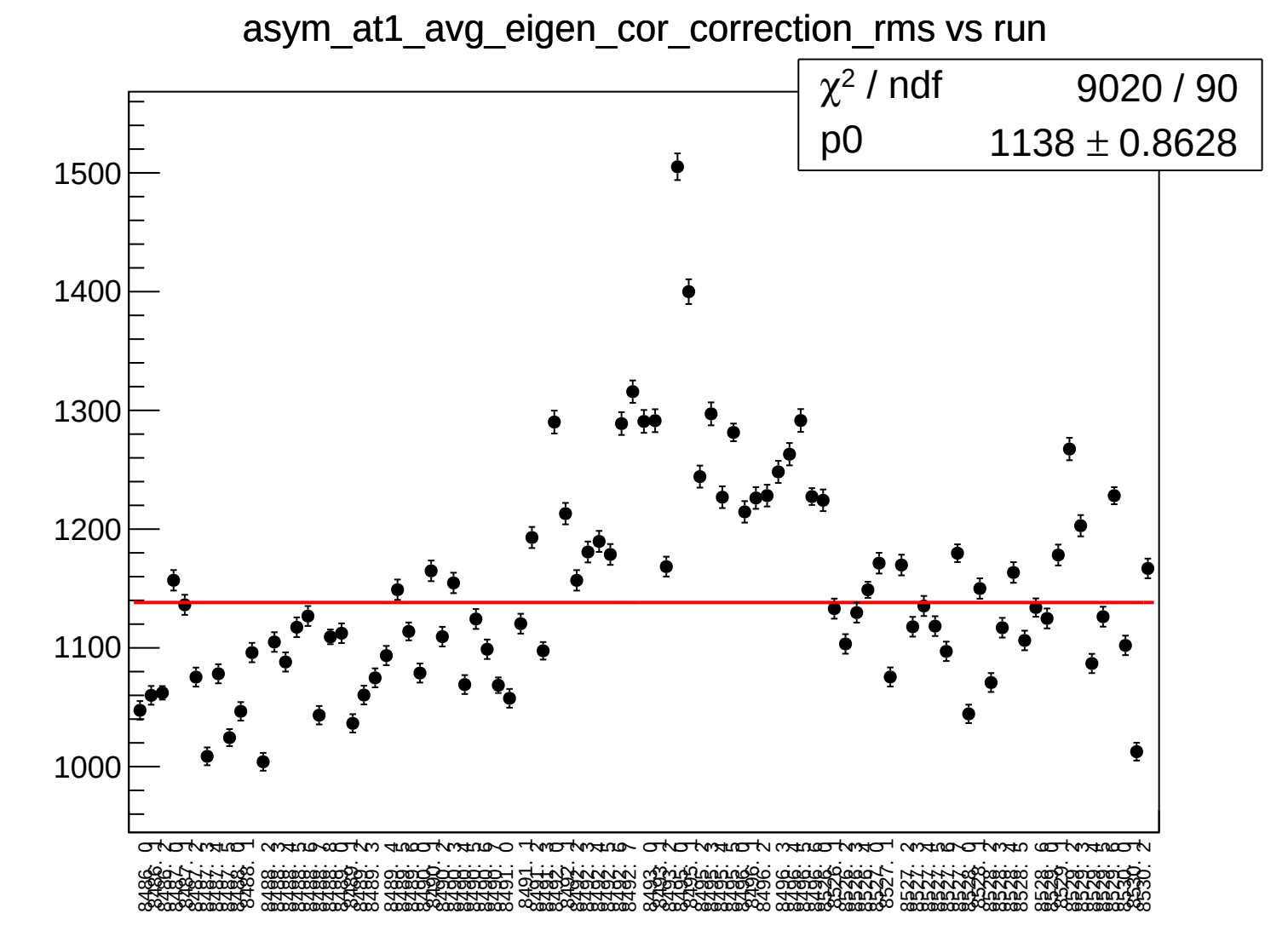

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 114.7 / 90
p0 −749.7 ± 1934
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −156.4
Std Dev 0
3
2
1
0
−1
−2

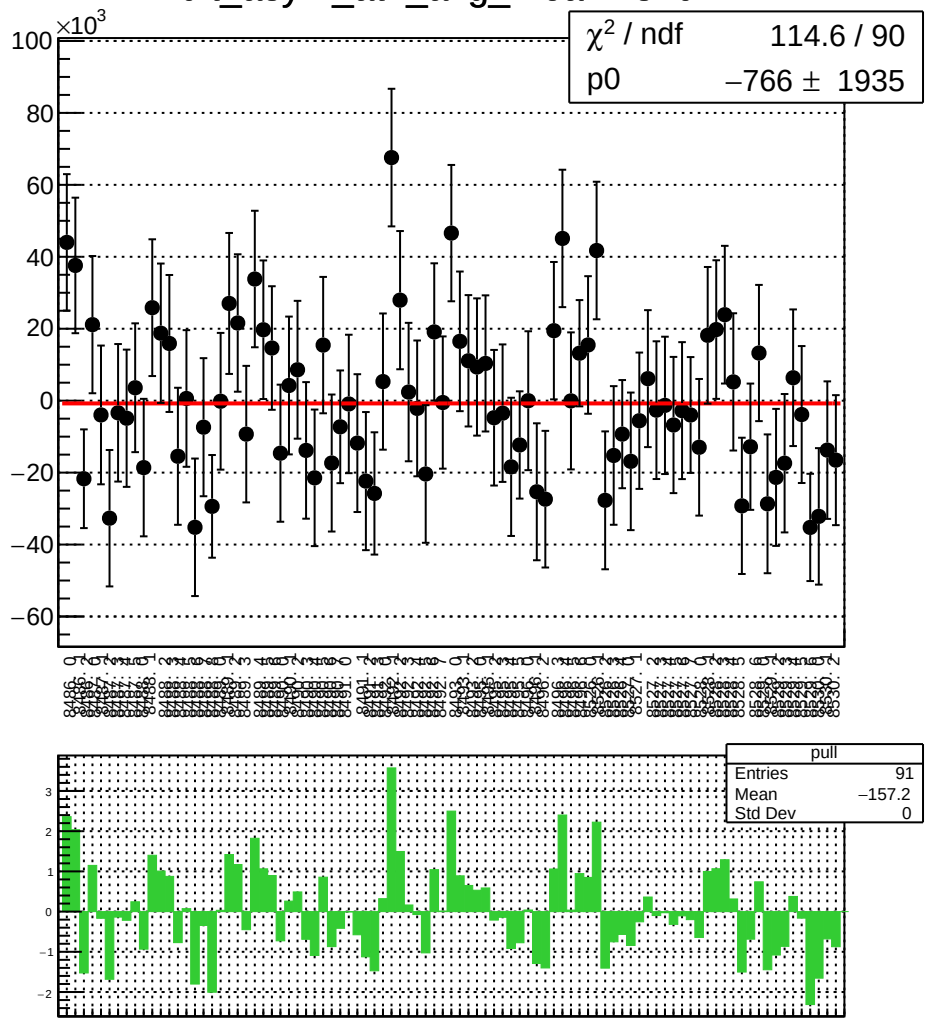

pull1D
Entries 91
Mean 0.02545
Std Dev 1.122
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

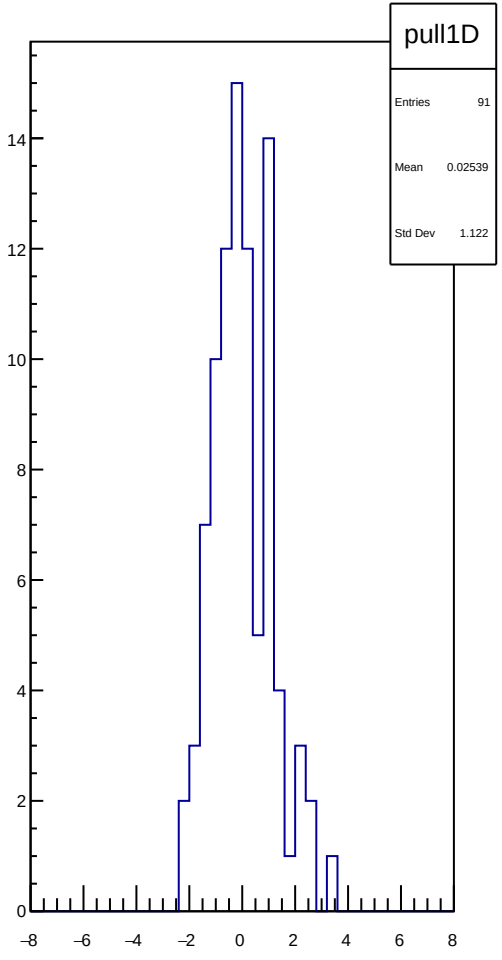

eigen_cor_asym_at1_avg_rms vs run
χ² / ndf 74.5 / 90
p0 1809 ± 1.368
1880
1860
1840
1820
1800
1780

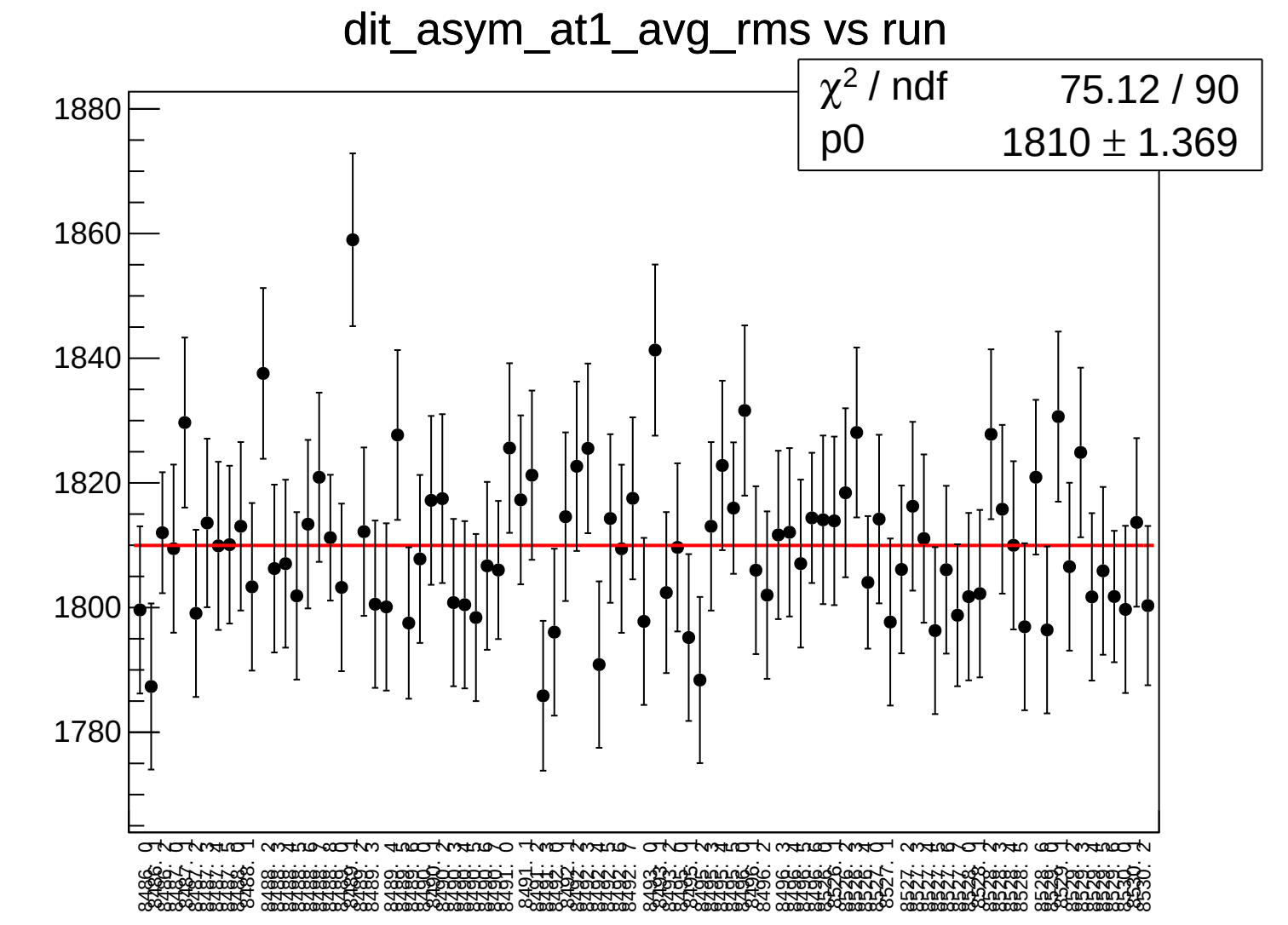

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 101.1 / 90
p0 −808.3 ± 1220
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 91
Mean 29.48
Std Dev 0
2
1
0
−1
−2

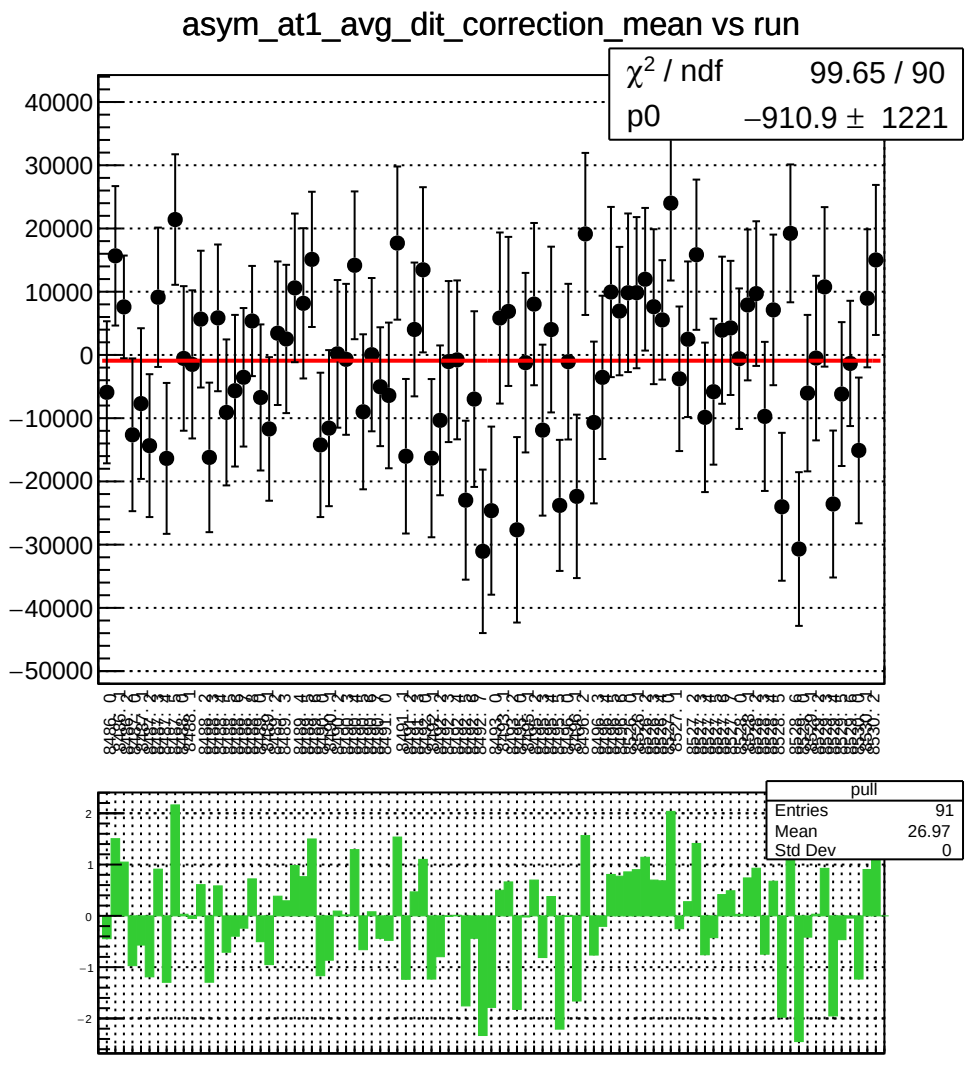

pull1D
Entries 91
Mean −0.02767
Std Dev 1.054
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

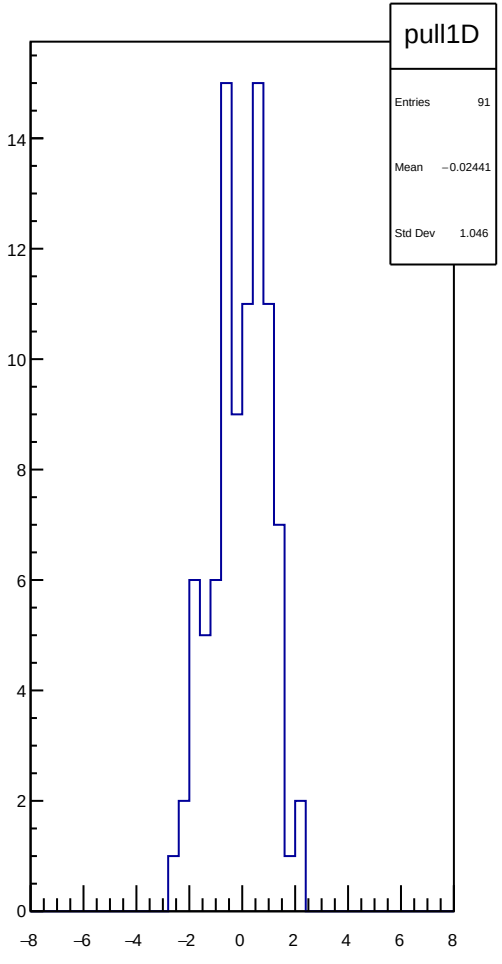

asym_at1_avg_eigen_cor_correction_rms vs run
χ² / ndf 9020 / 90
p0 1138 ± 0.8628
1500
1400
1300
1200
1100
1000

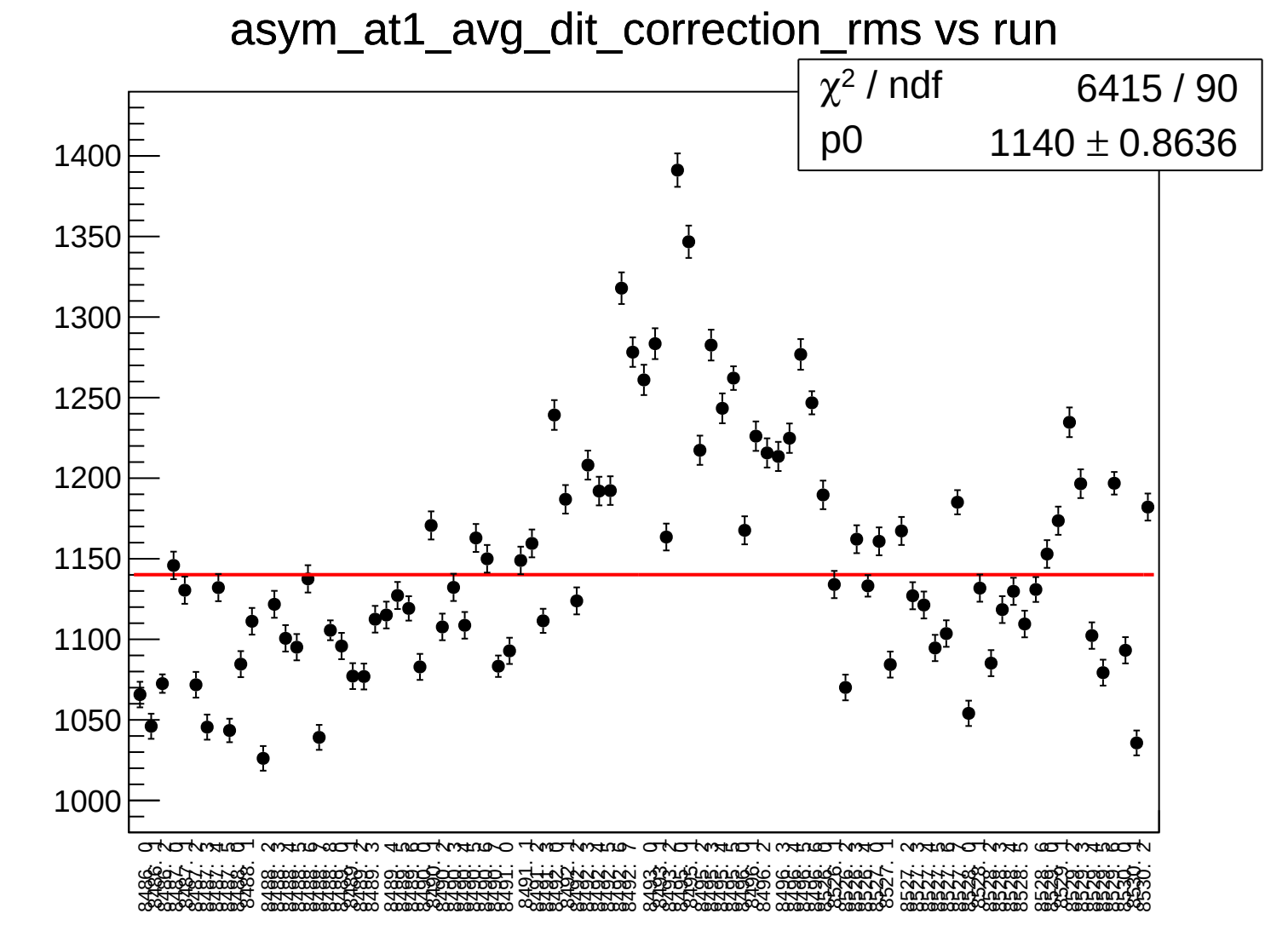

dit_asym_at1_avg_mean vs run
χ^2 / ndf 114.6 / 90
p0 −766 ± 1935
×10^3
pull
Entries 91
Mean −157.2
Std Dev 0

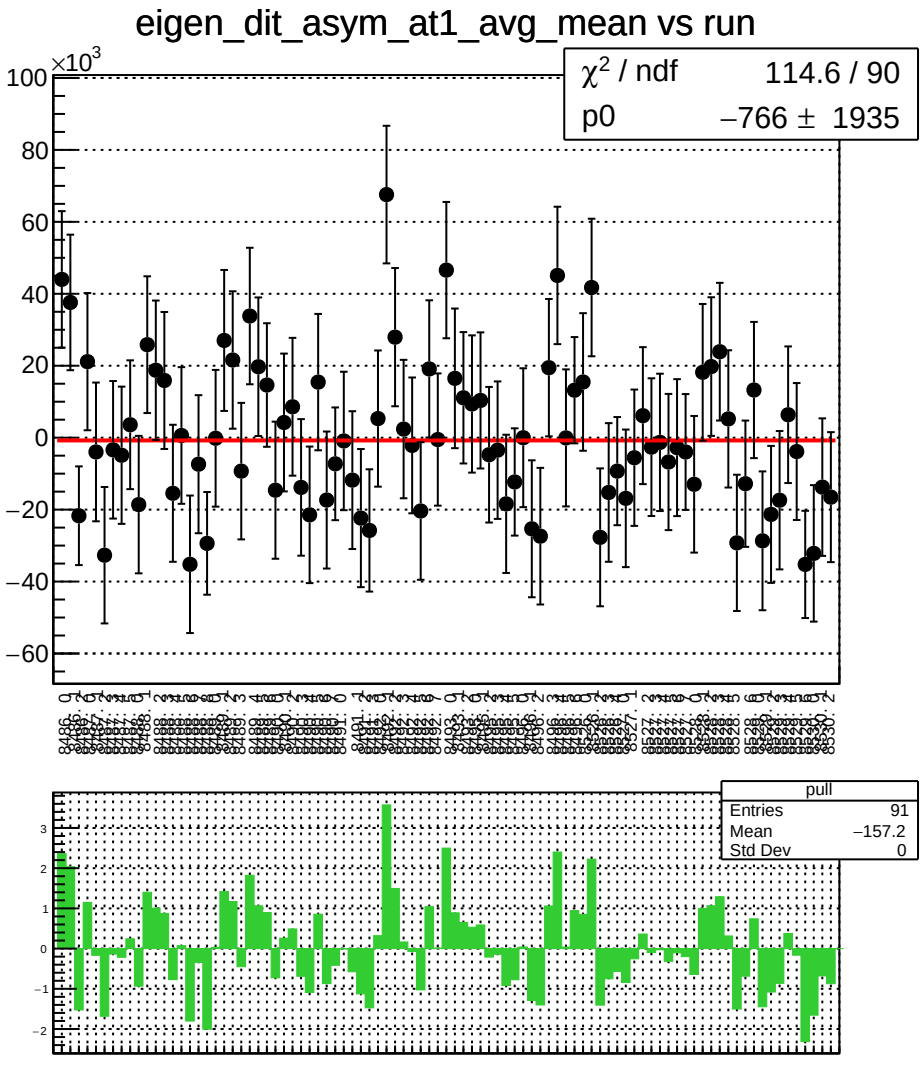

pull1D
Entries 91
Mean 0.02539
Std Dev 1.122

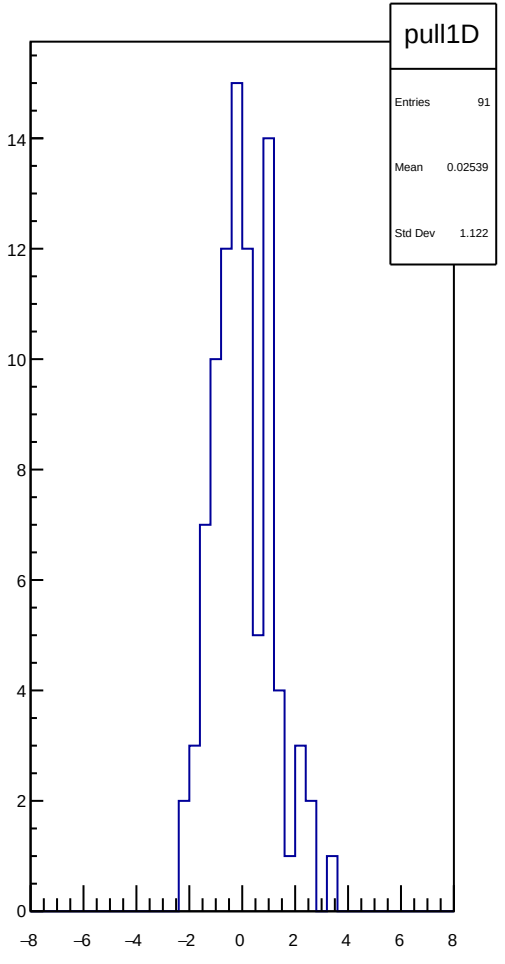

dit_asym_at1_avg_rms vs run
χ^2 / ndf 75.12 / 90
p0 1810 ± 1.369
1880
1860
1840
1820
1800
1780

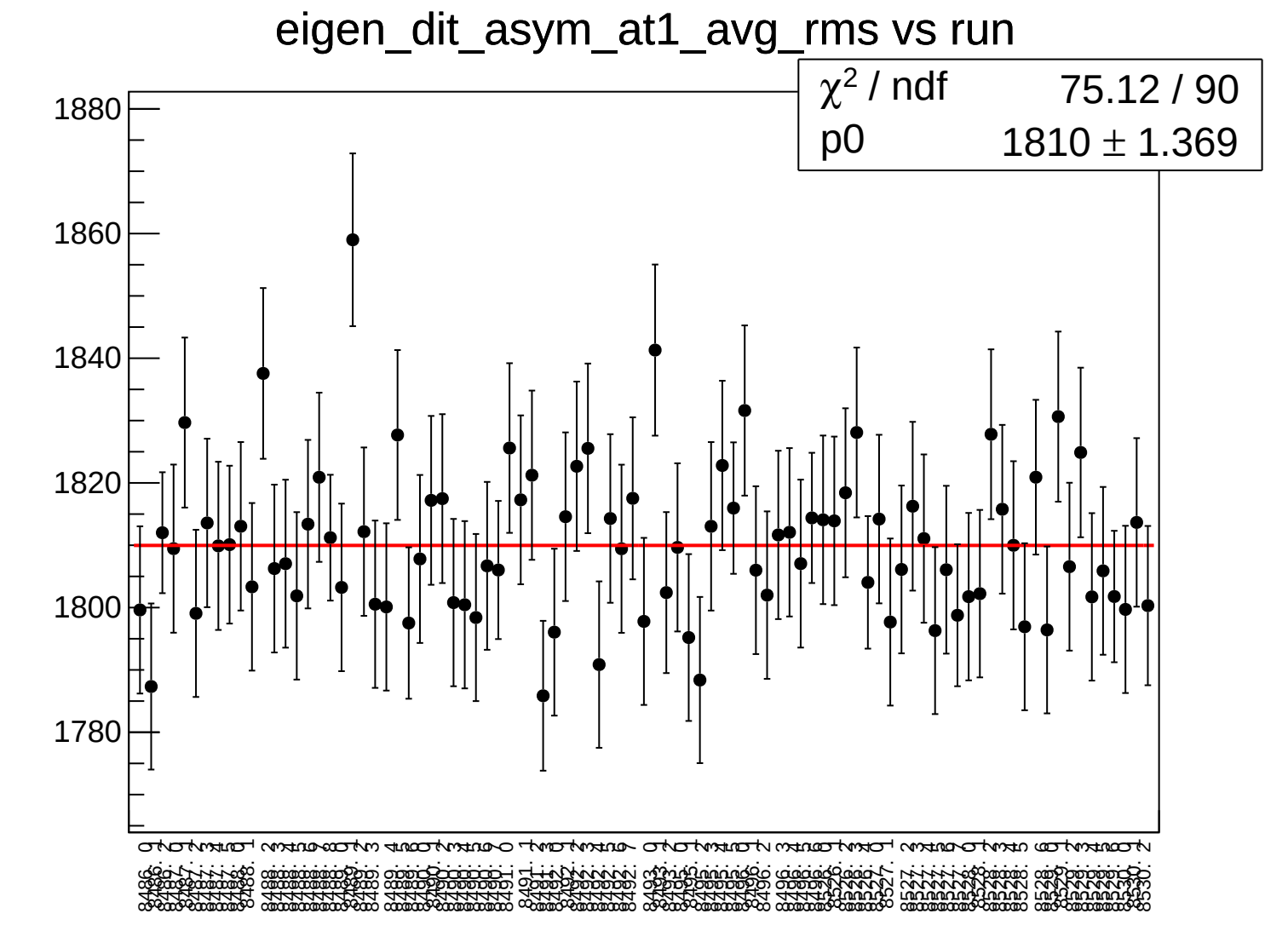

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 99.65 / 90
p0 −910.9 ± 1221
pull
Entries 91
Mean 26.97
Std Dev 0

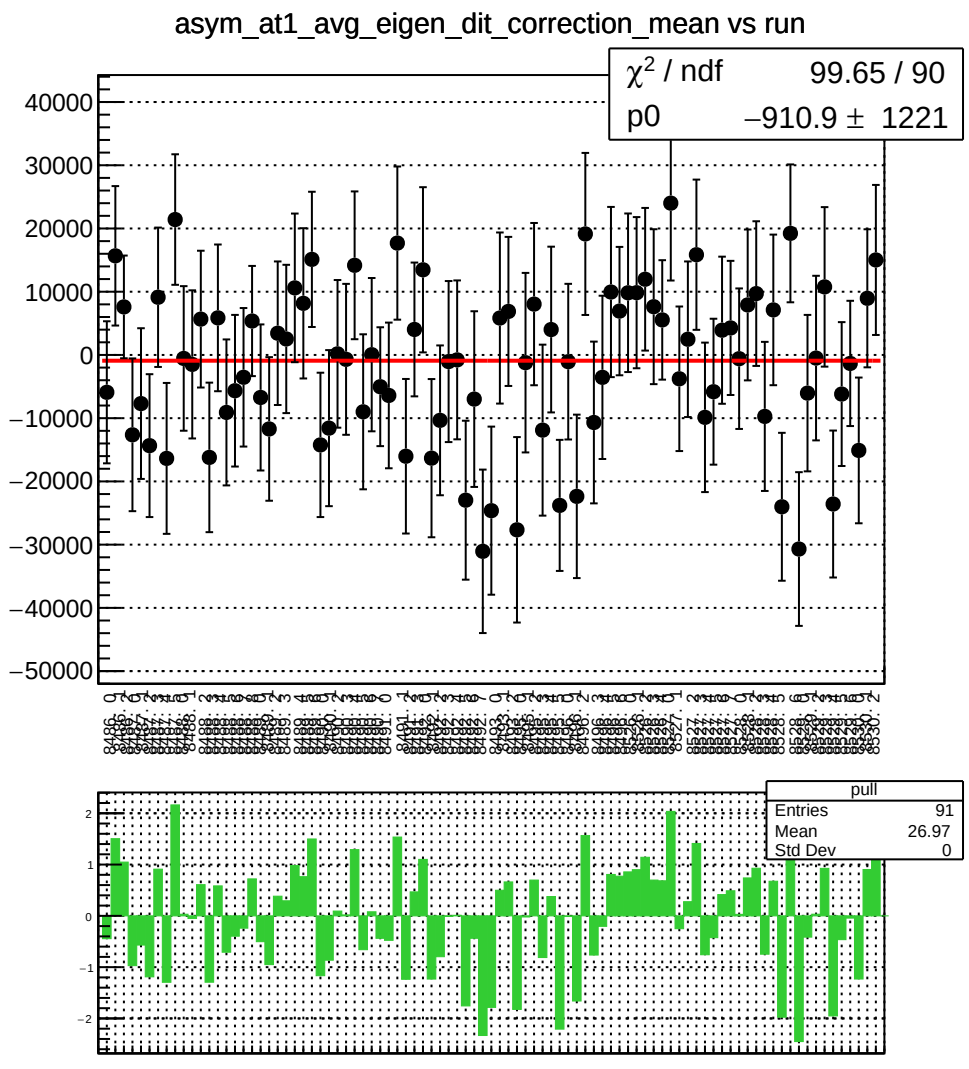

pull1D
Entries 91
Mean −0.02441
Std Dev 1.046

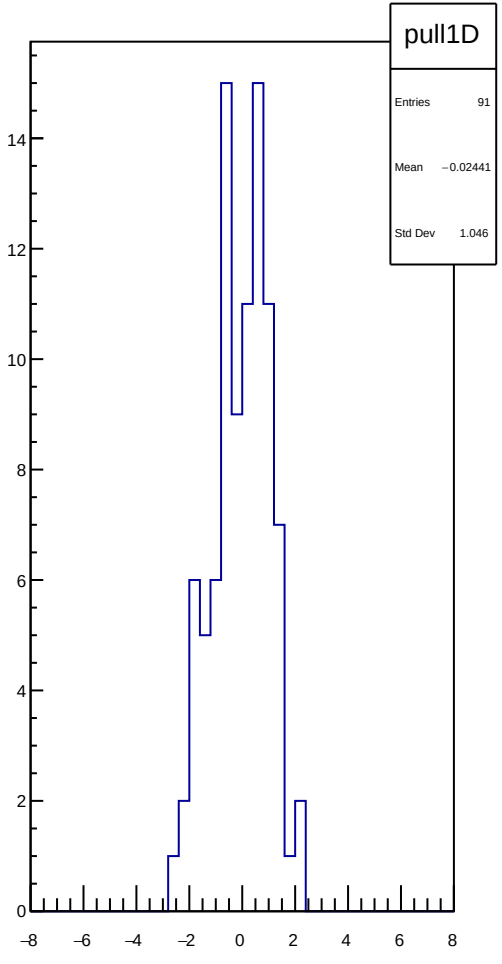

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 6415 / 90
p0 1140 ± 0.8636
1400
1350
1300
1250
1200
1150
1100
1050
1000

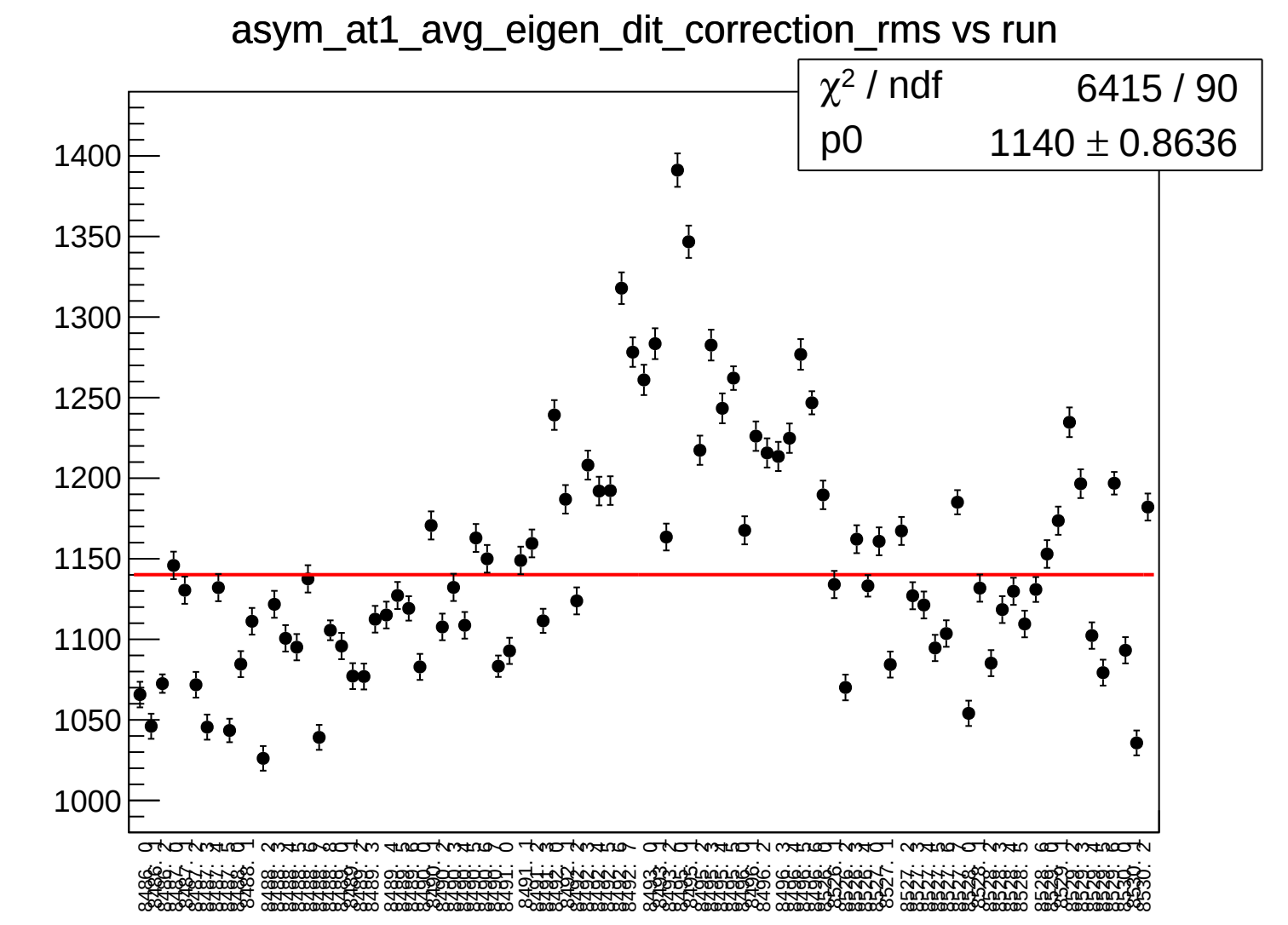

eigen_dit_asym_at1_avg_mean vs run
χ^2 / ndf 114.6 / 90
p0 −766 ± 1935
×10^3
pull
Entries 91
Mean −157.2
Std Dev 0

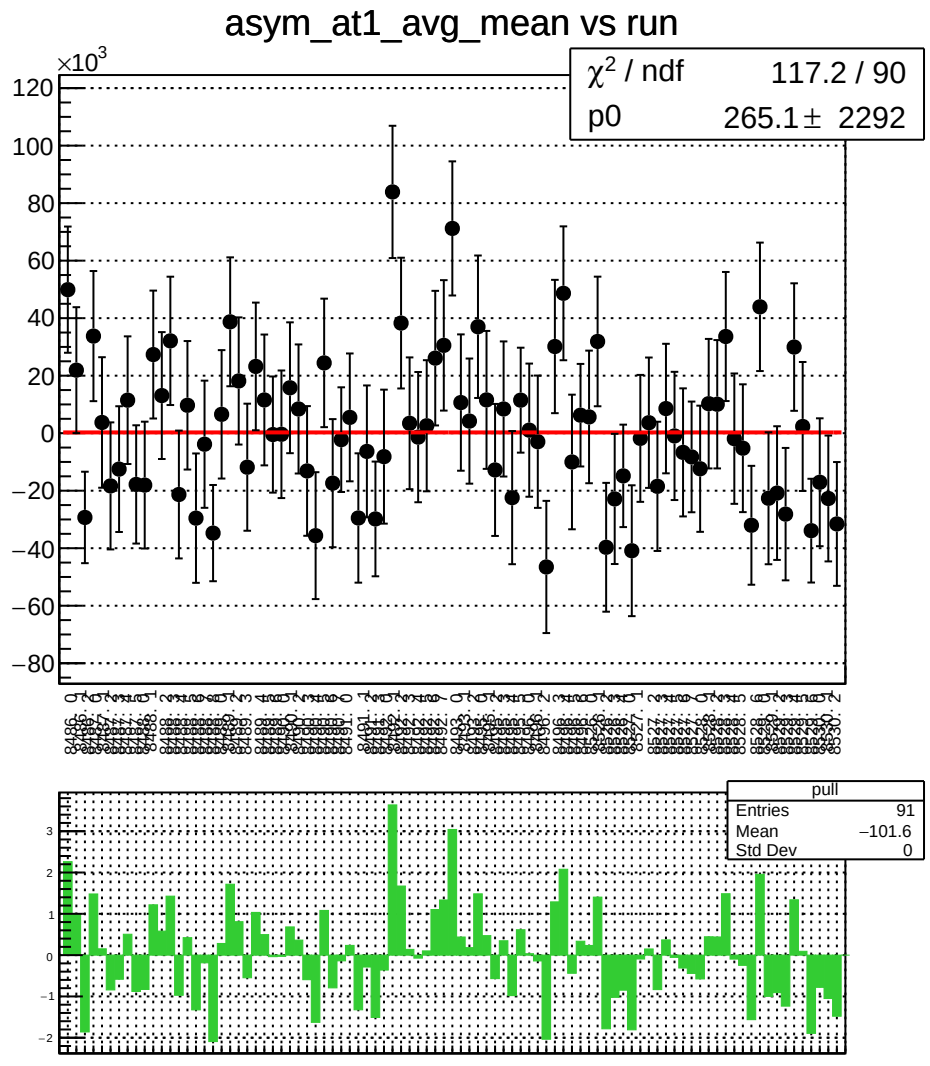

pull1D
Entries 91
Mean 0.02539
Std Dev 1.122

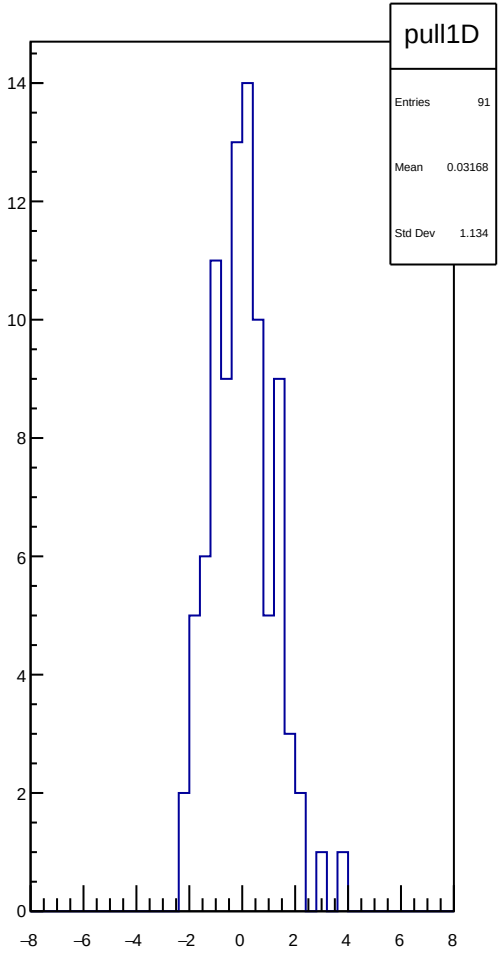

eigen_dit_asym_at1_avg_rms vs run
χ² / ndf 75.12 / 90
p0 1810 ± 1.369
1880
1860
1840
1820
1800
1780

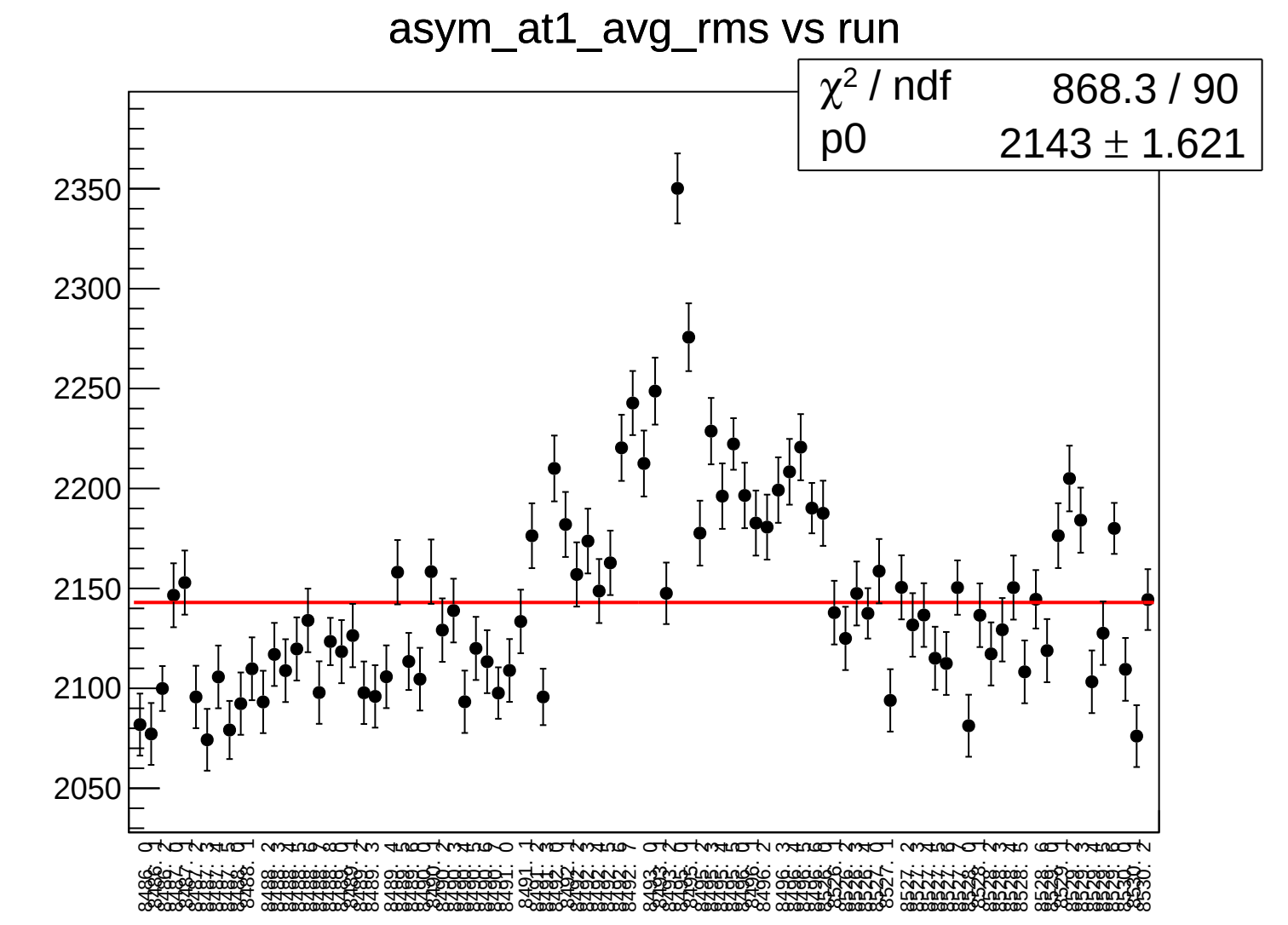

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 99.65 / 90
p0 −910.9 ± 1221
pull
Entries 91
Mean 26.97
Std Dev 0

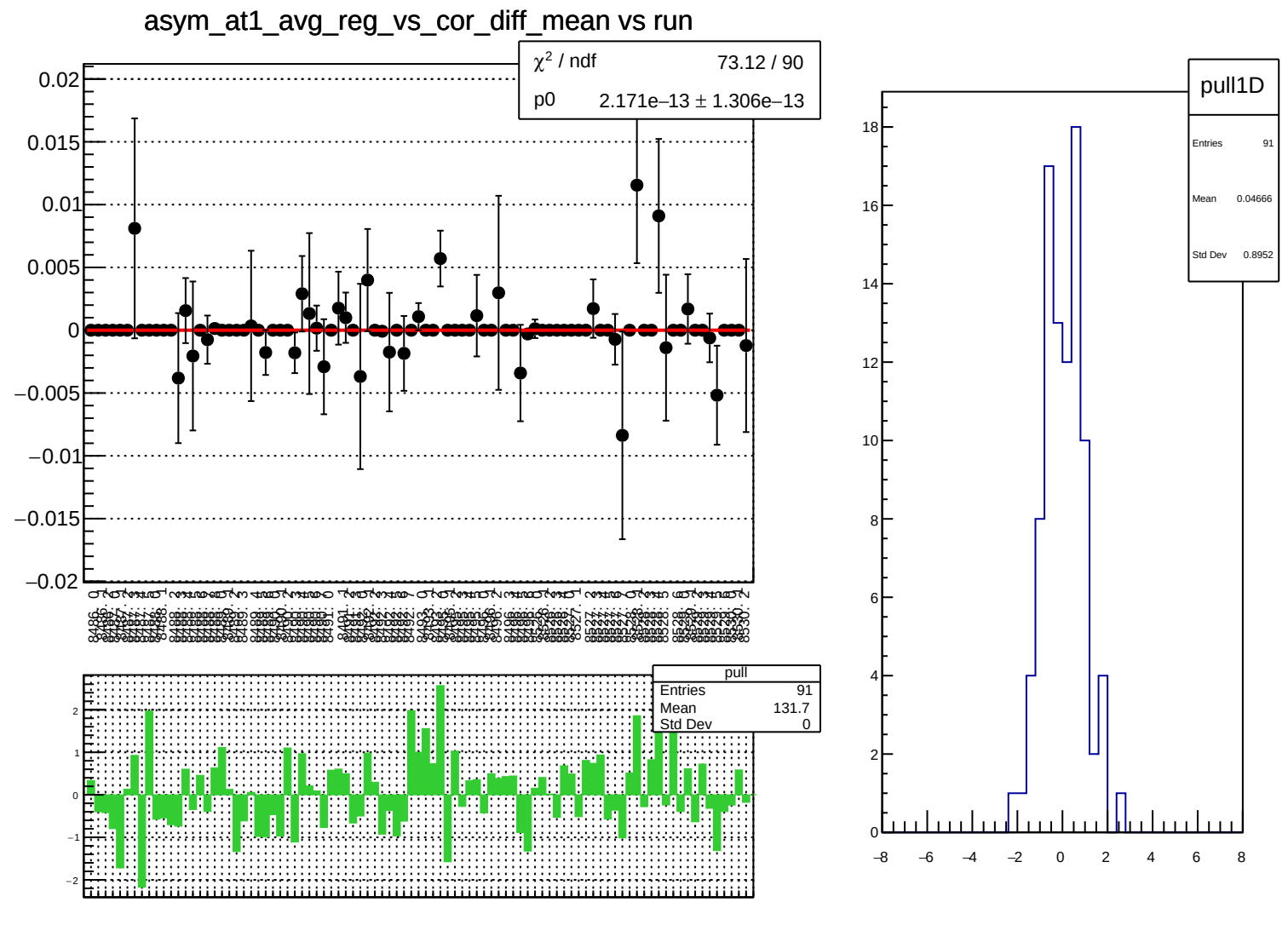

pull1D
Entries 91
Mean −0.02441
Std Dev 1.046

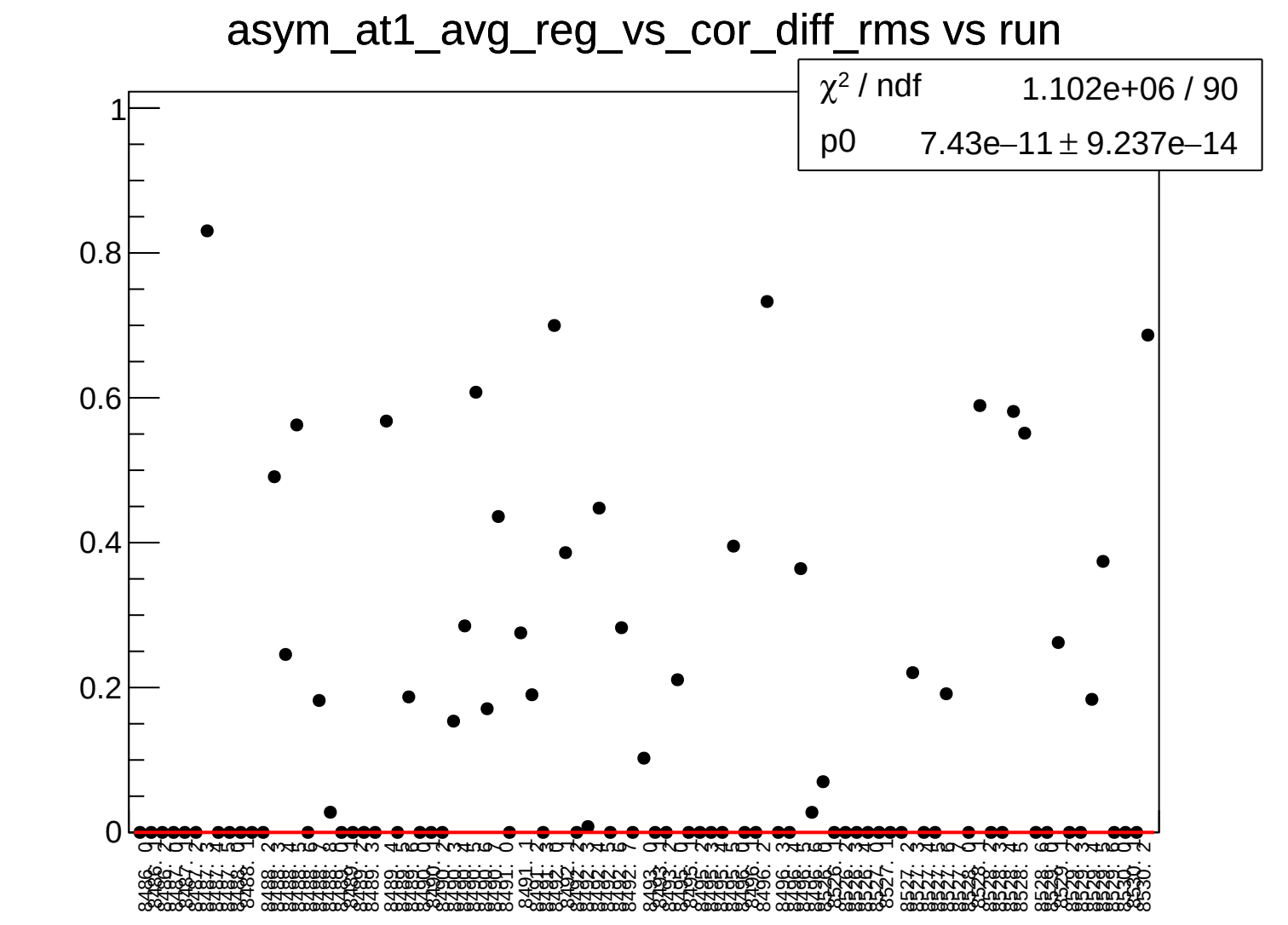

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 6415 / 90
p0 1140 ± 0.8636
1400
1350
1300
1250
1200
1150
1100
1050
1000

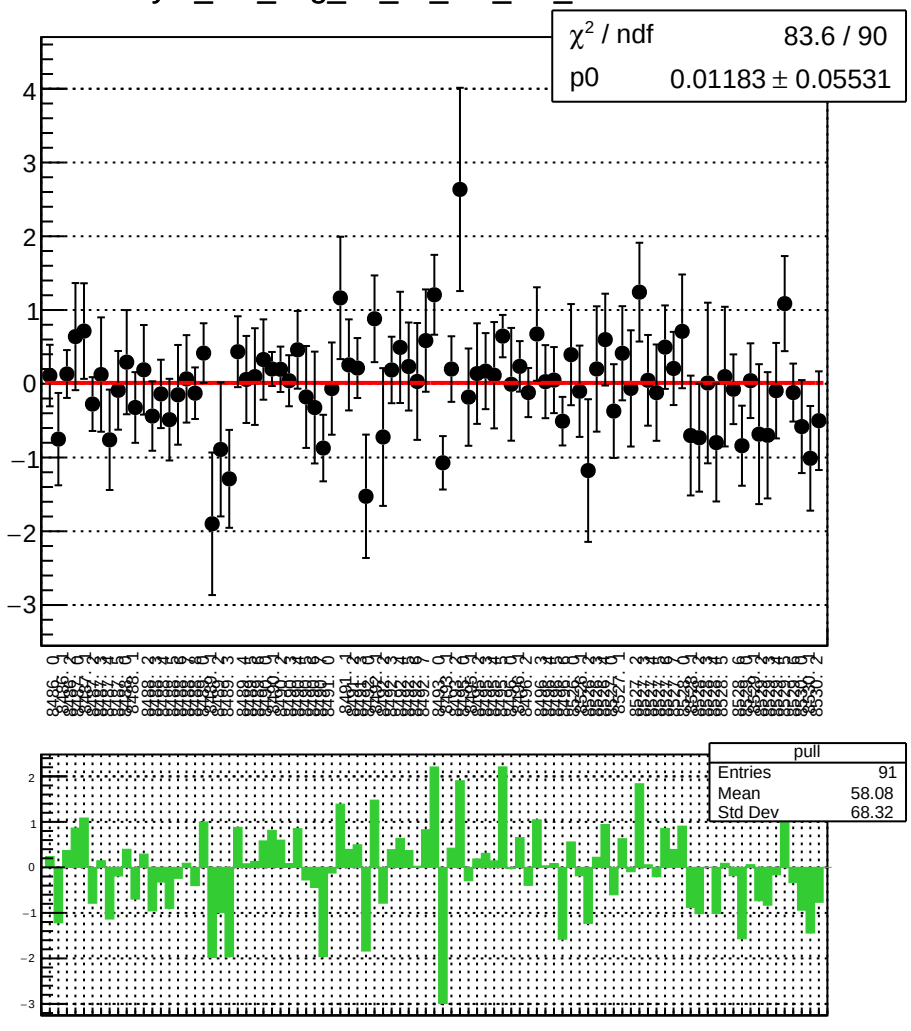

asym_at1_avg_mean vs run
×10^3
χ^2 / ndf 117.2 / 90
p0 265.1 ± 2292
pull
Entries 91
Mean −101.6
Std Dev 0

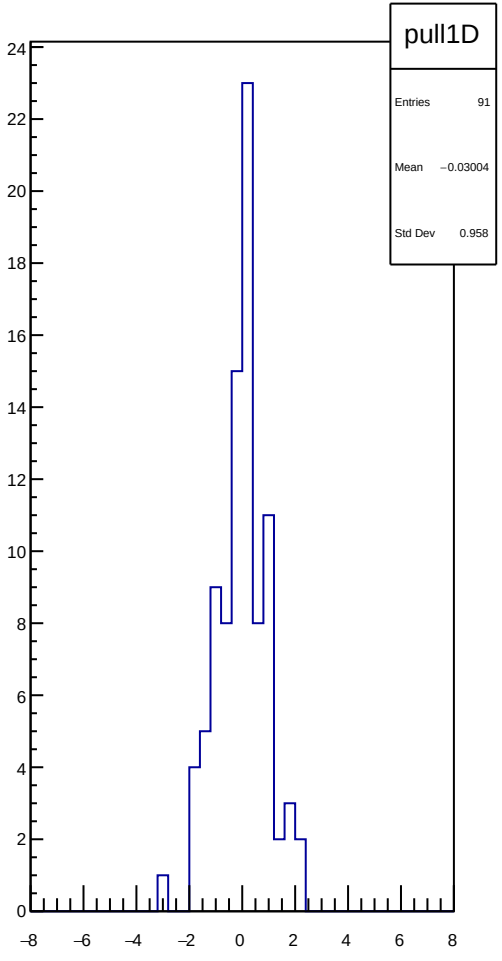

pull1D
Entries 91
Mean 0.03168
Std Dev 1.134

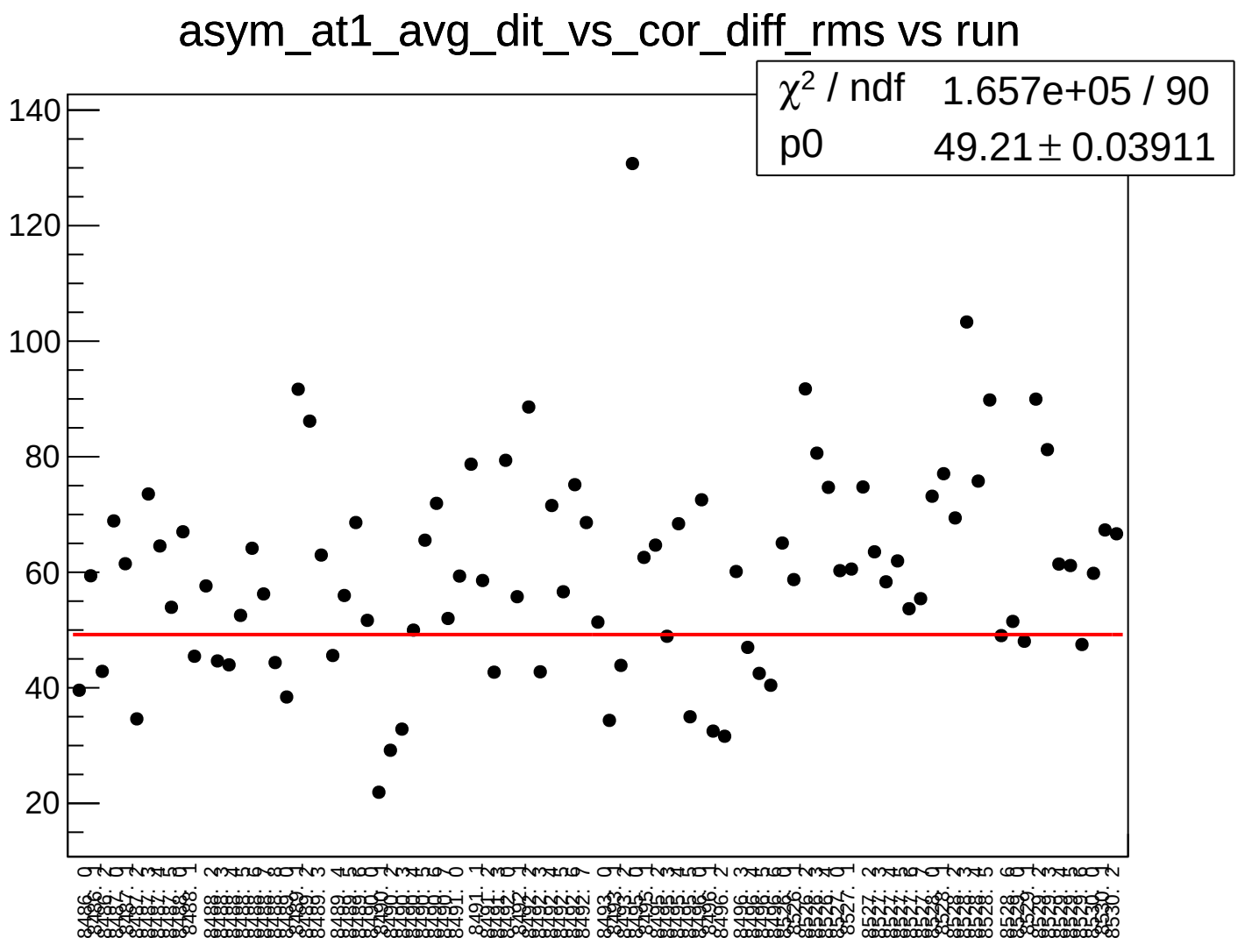

asym_at1_avg_rms vs run
χ^2 / ndf 868.3 / 90
p0 2143 ± 1.621
2350
2300
2250
2200
2150
2100
2050

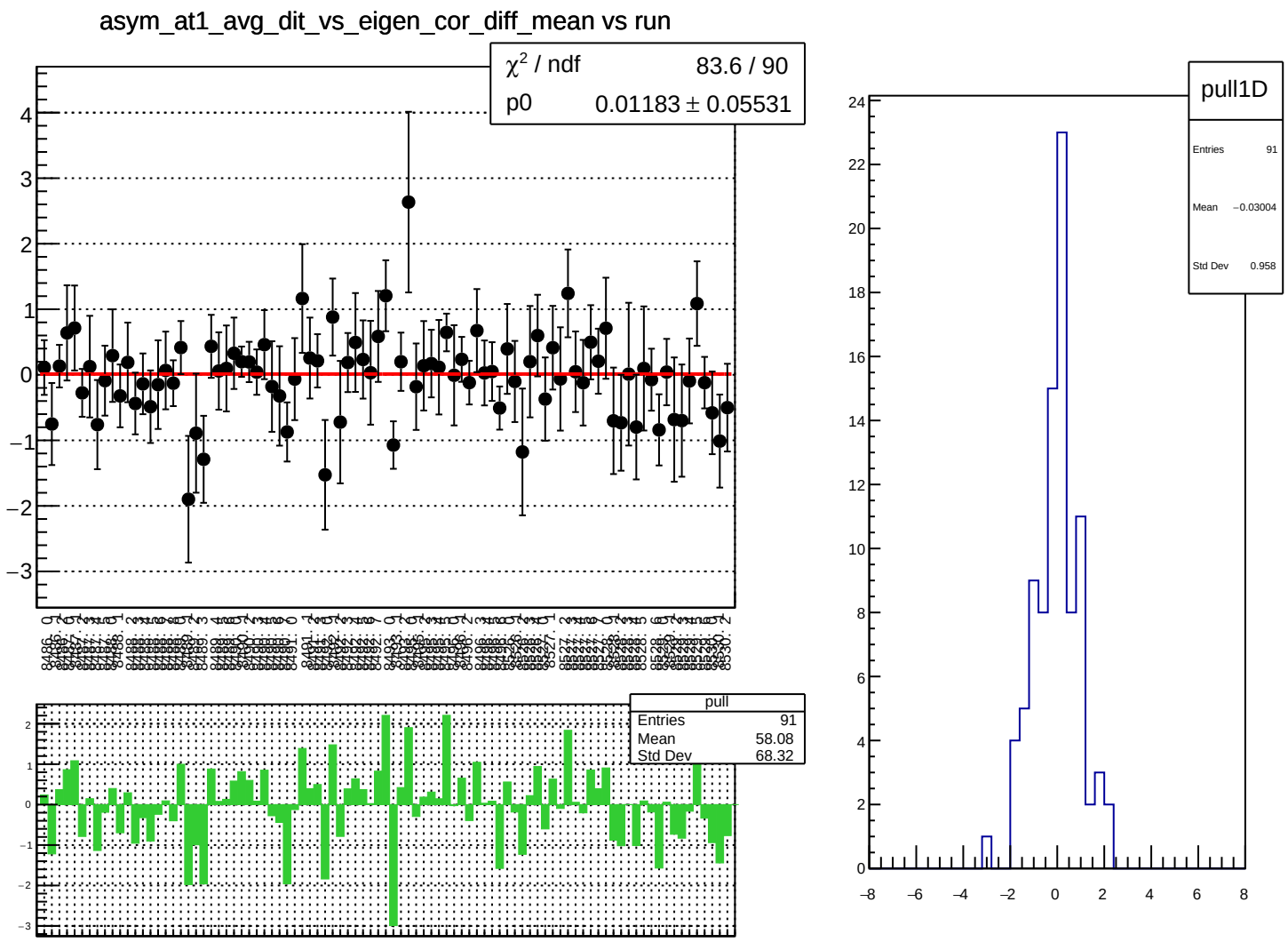

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 73.12 / 90
p0 2.171e−13 ± 1.306e−13
pull
Entries 91
Mean 131.7
Std Dev 0
pull1D
Entries 91
Mean 0.04666
Std Dev 0.8952

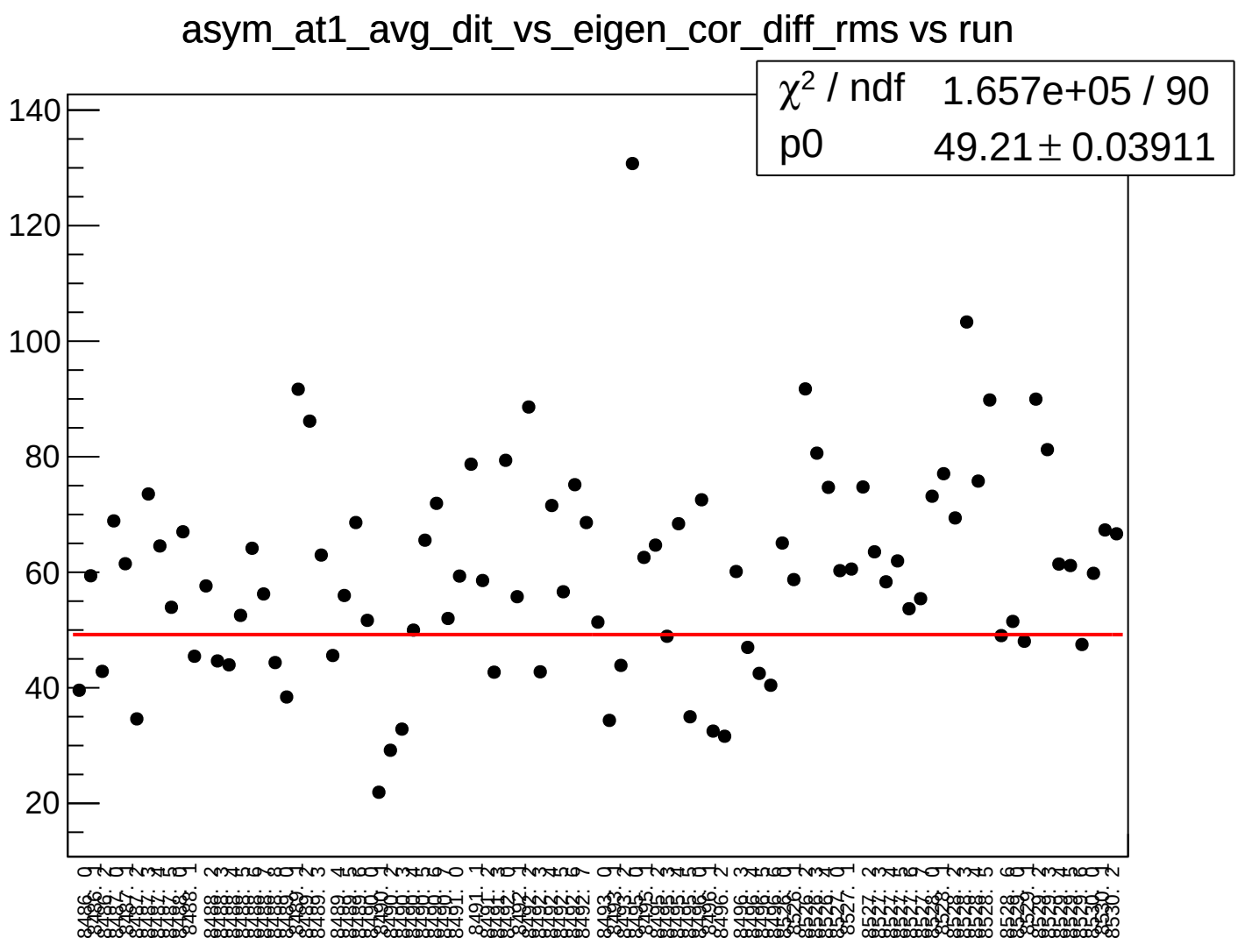

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.102e+06 / 90
p0 7.43e−11 ± 9.237e−14
1
0.8
0.6
0.4
0.2
0

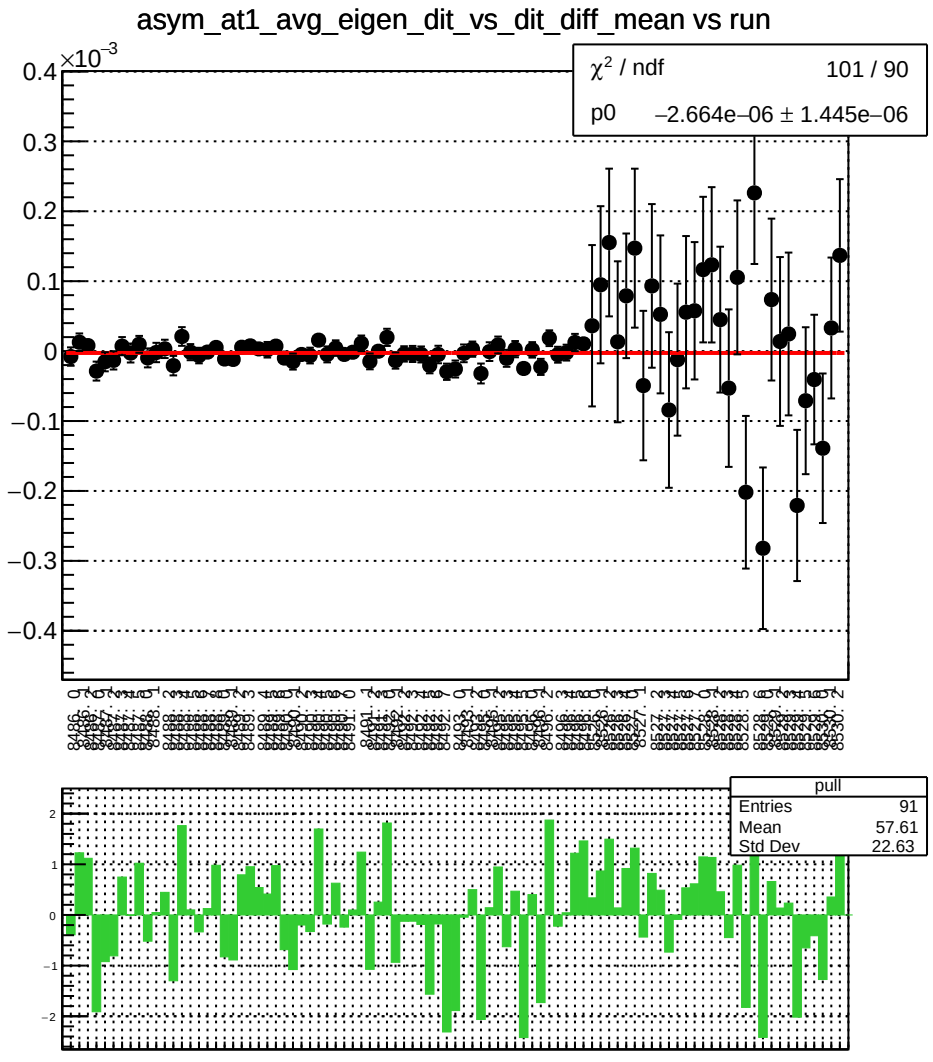

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 83.6 / 90
p0 0.01183 ± 0.05531
pull
Entries 91
Mean 58.08
Std Dev 68.32

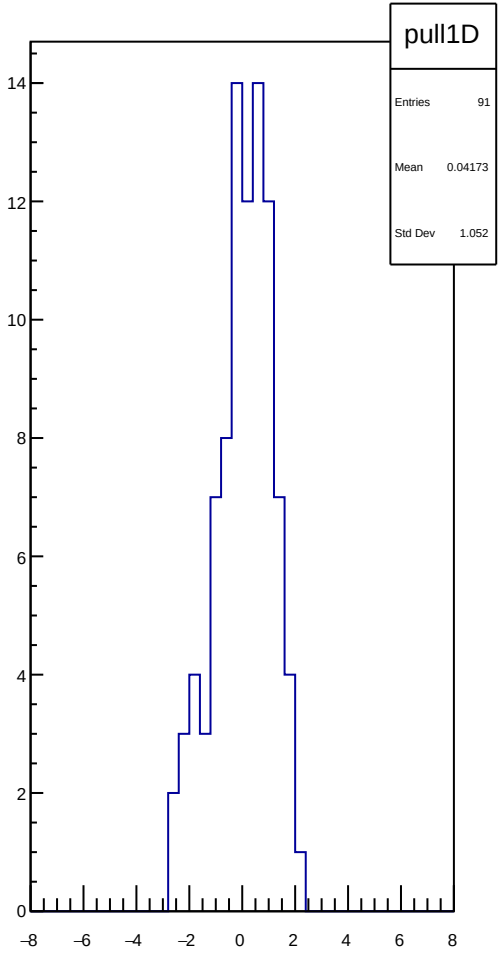

pull1D
Entries 91
Mean −0.03004
Std Dev 0.958

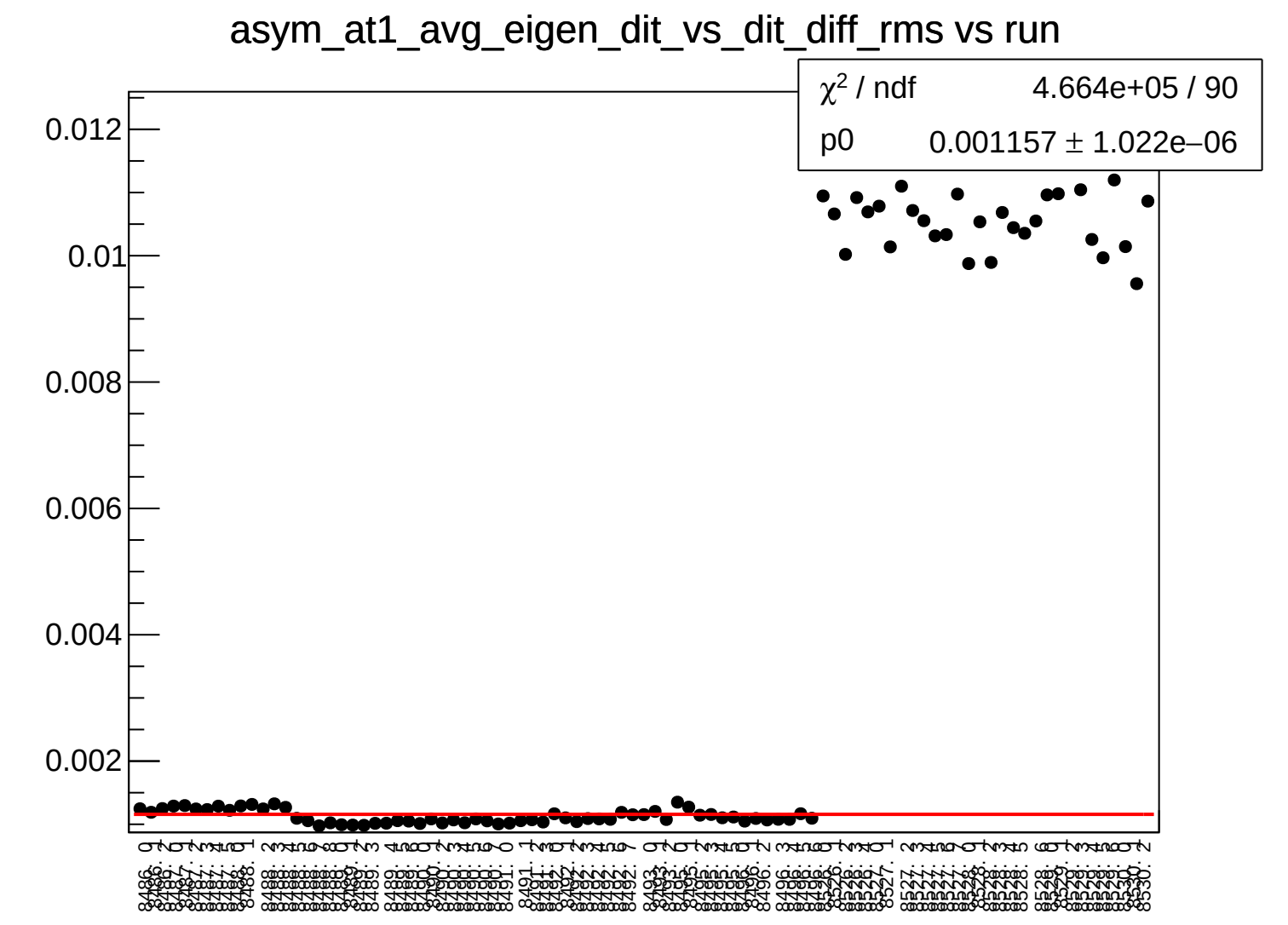

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.657e+05 / 90
p0 49.21 ± 0.03911
140
120
100
80
60
40
20

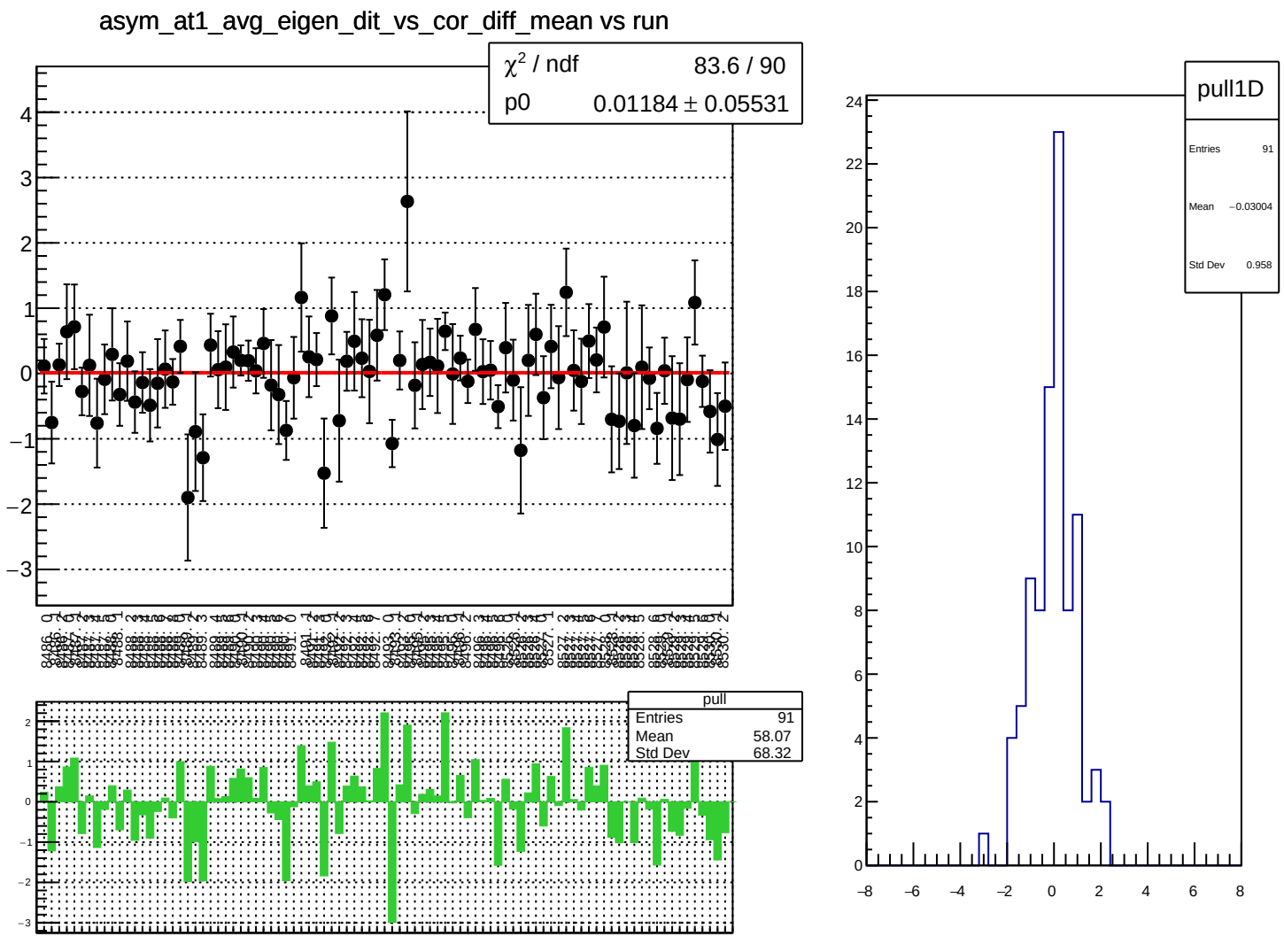

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.6 / 90
p0 0.01183 ± 0.05531
pull
Entries 91
Mean 58.08
Std Dev 68.32
pull1D
Entries 91
Mean −0.03004
Std Dev 0.958

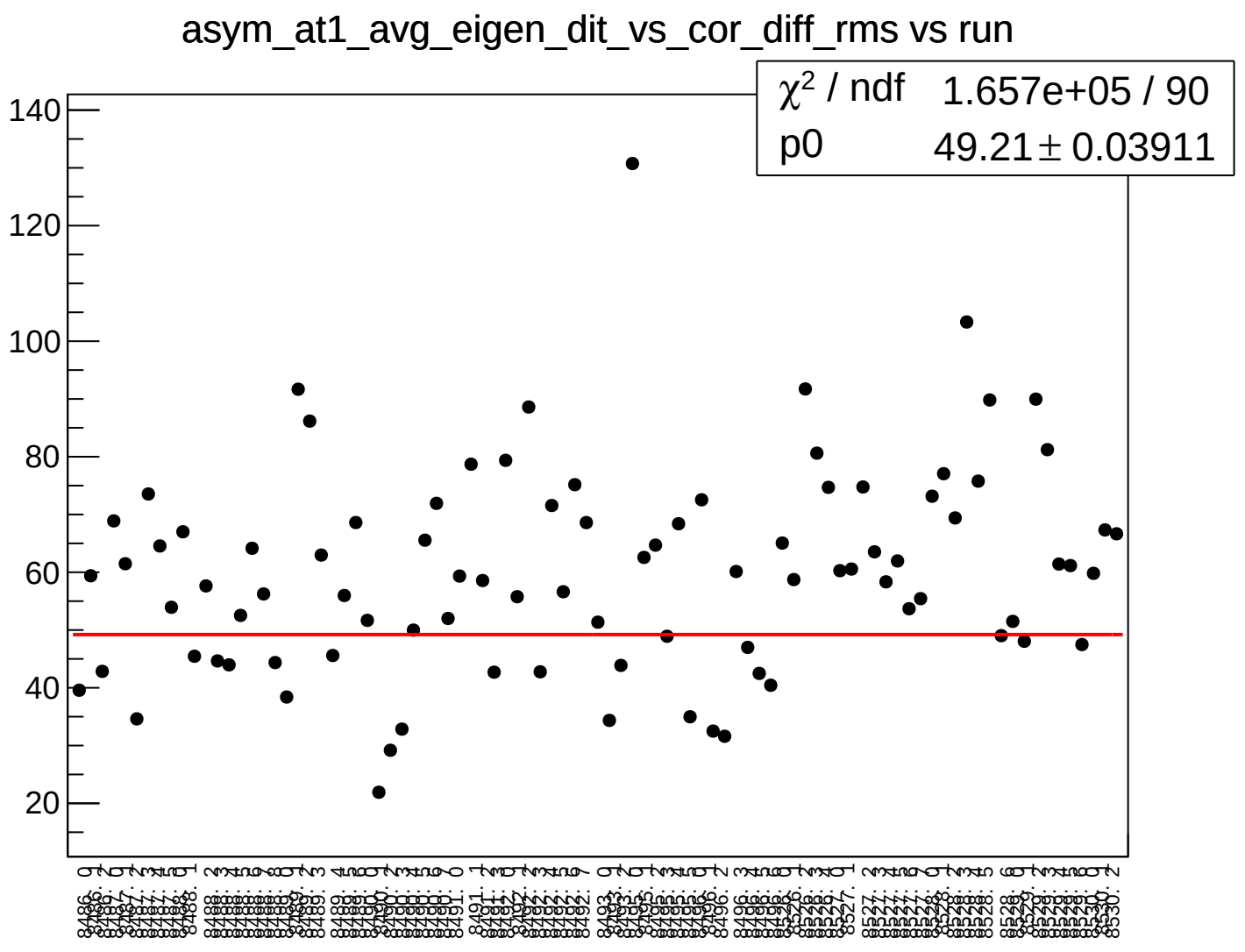

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.657e+05 / 90
p0 49.21 ± 0.03911
140
120
100
80
60
40
20

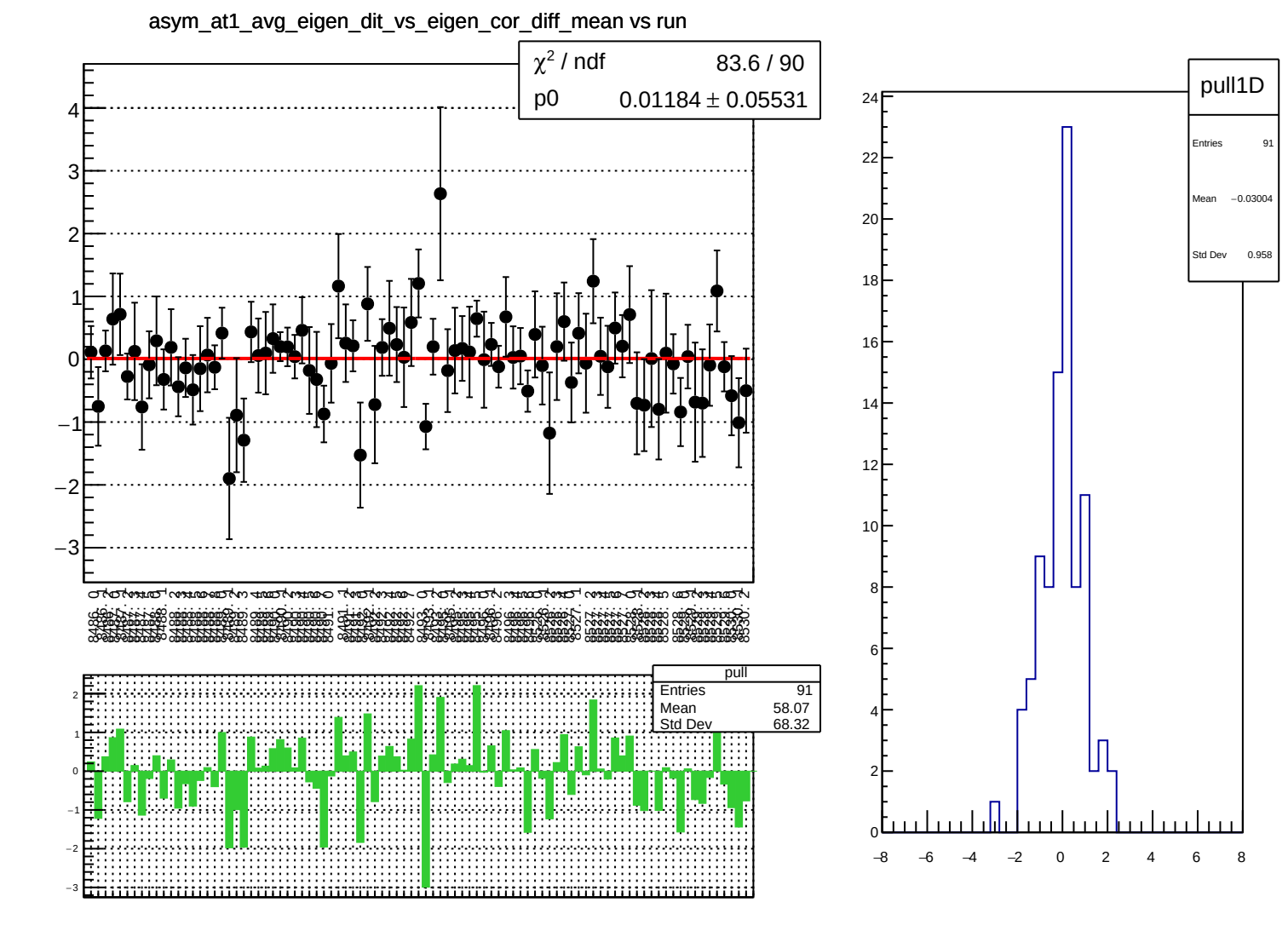

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101 / 90
p0 −2.664e−06 ± 1.445e−06
pull
Entries 91
Mean 57.61
Std Dev 22.63

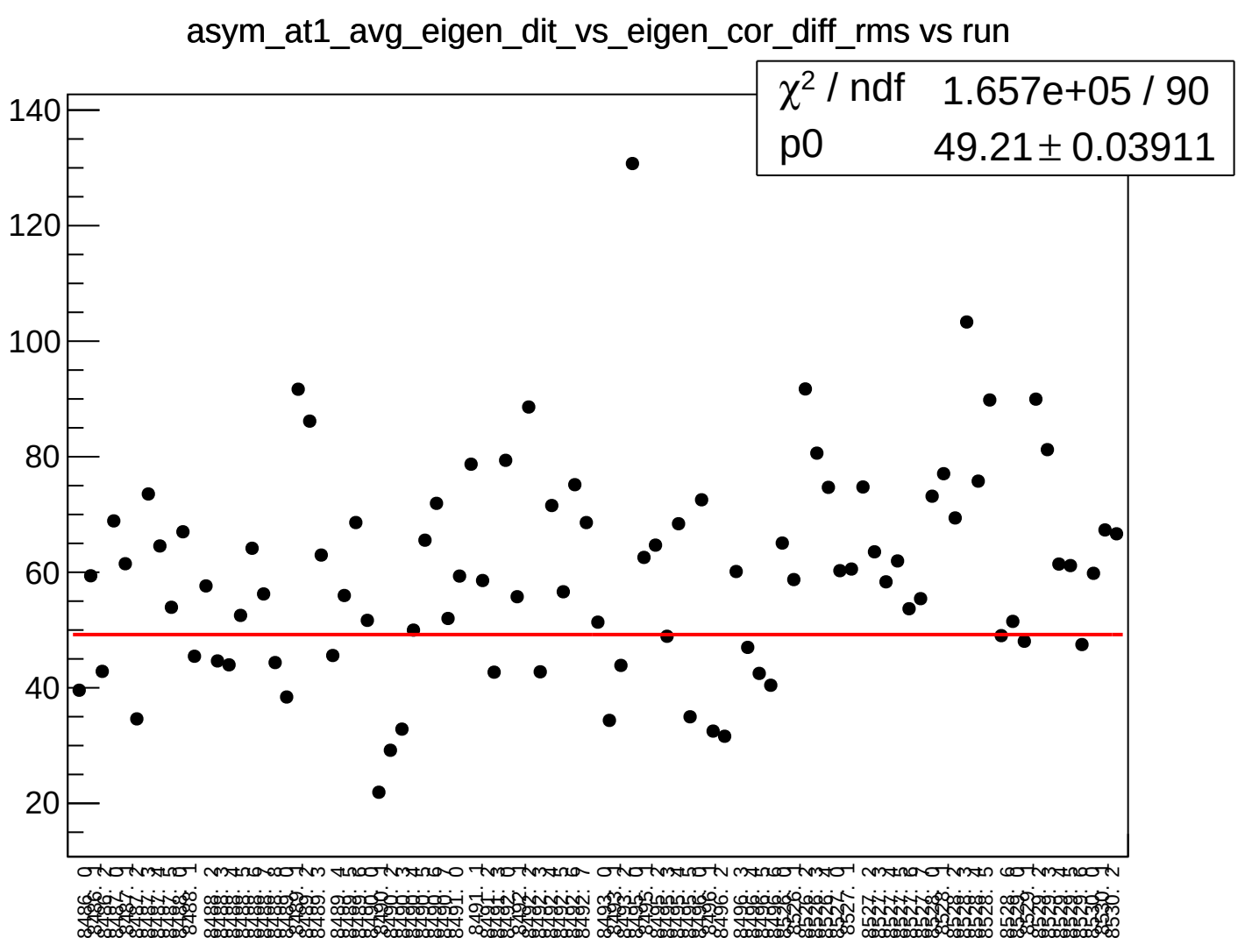

pull1D
Entries 91
Mean 0.04173
Std Dev 1.052

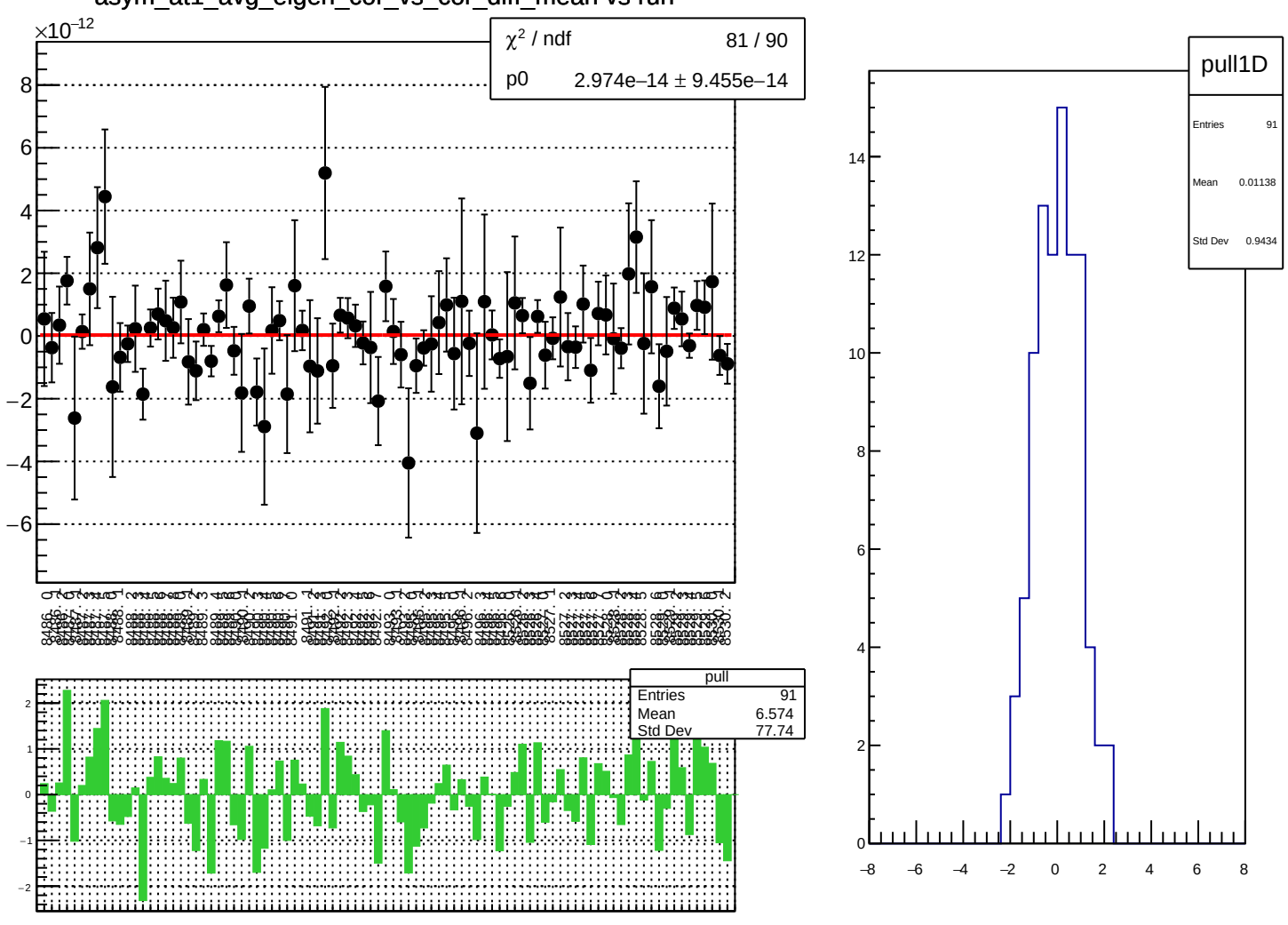

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.664e+05 / 90
p0 0.001157 ± 1.022e−06
0.012
0.01
0.008
0.006
0.004
0.002

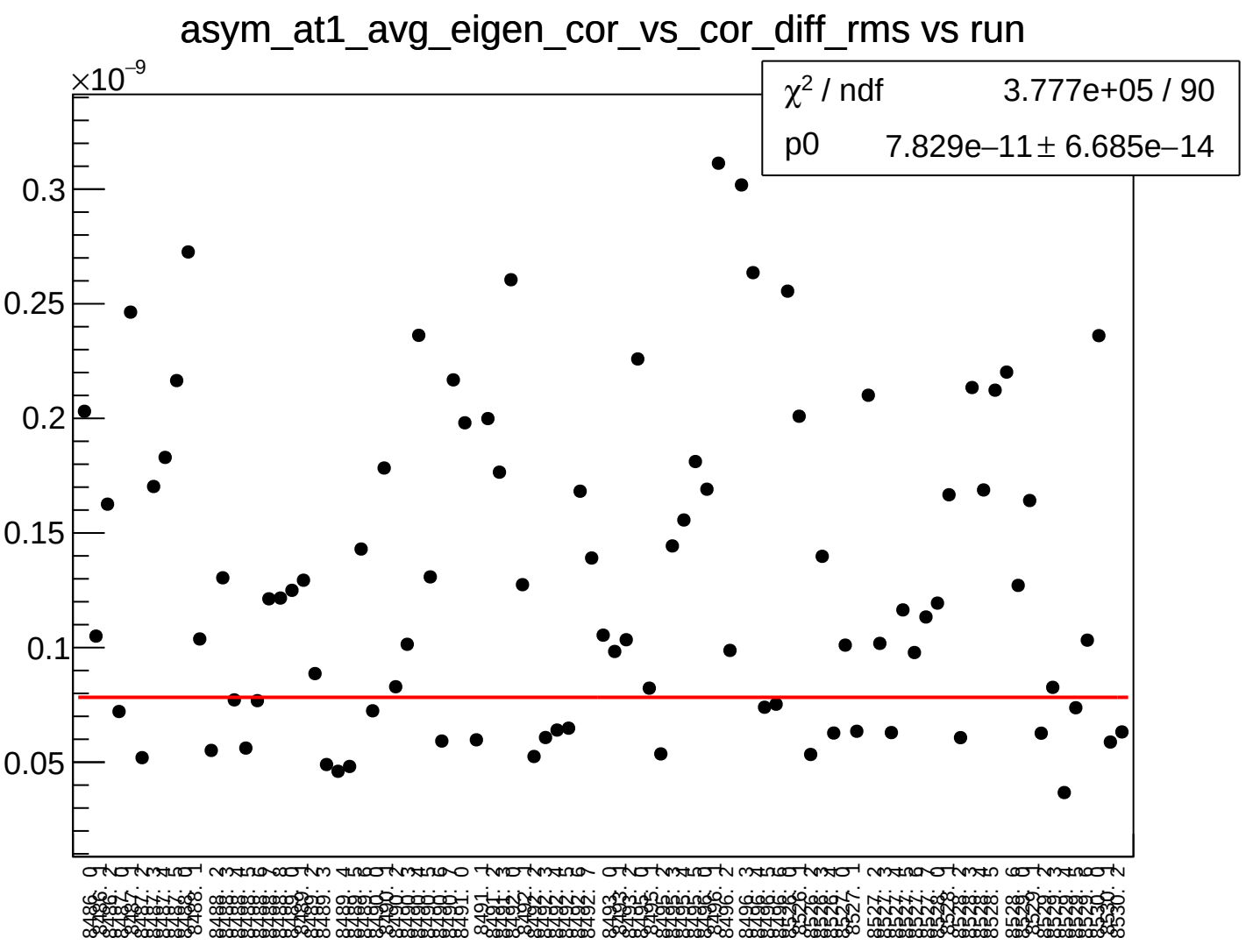

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.6 / 90
p0 0.01184 ± 0.05531
pull
Entries 91
Mean 58.07
Std Dev 68.32
pull1D
Entries 91
Mean −0.03004
Std Dev 0.958

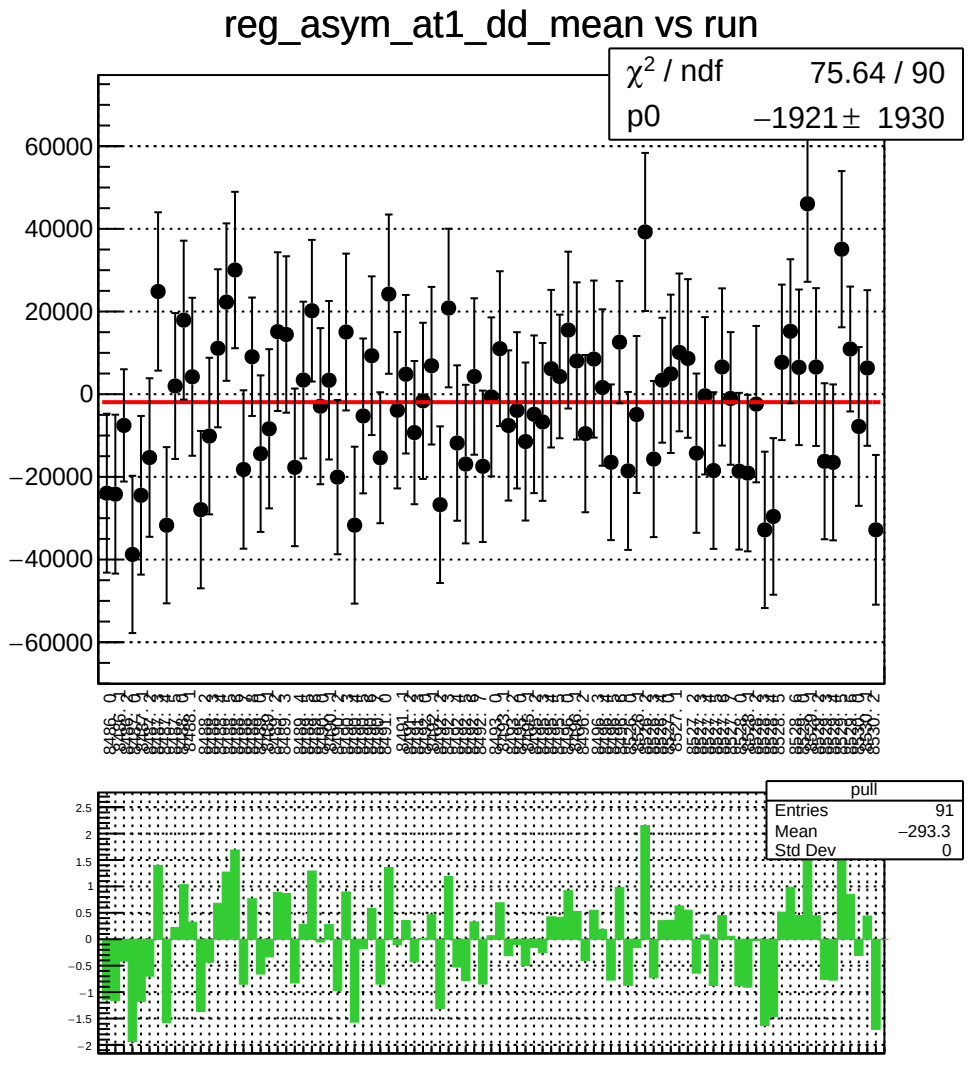

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.657e+05 / 90
p0 49.21 ± 0.03911
140
120
100
80
60
40
20

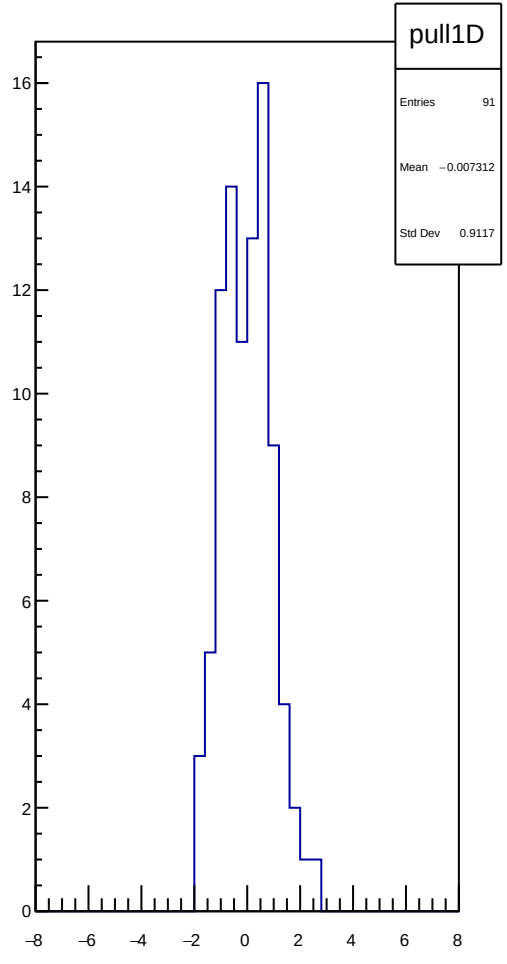

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.6 / 90
p0 0.01184 ± 0.05531
pull
Entries 91
Mean 58.07
Std Dev 68.32
pull1D
Entries 91
Mean −0.03004
Std Dev 0.958

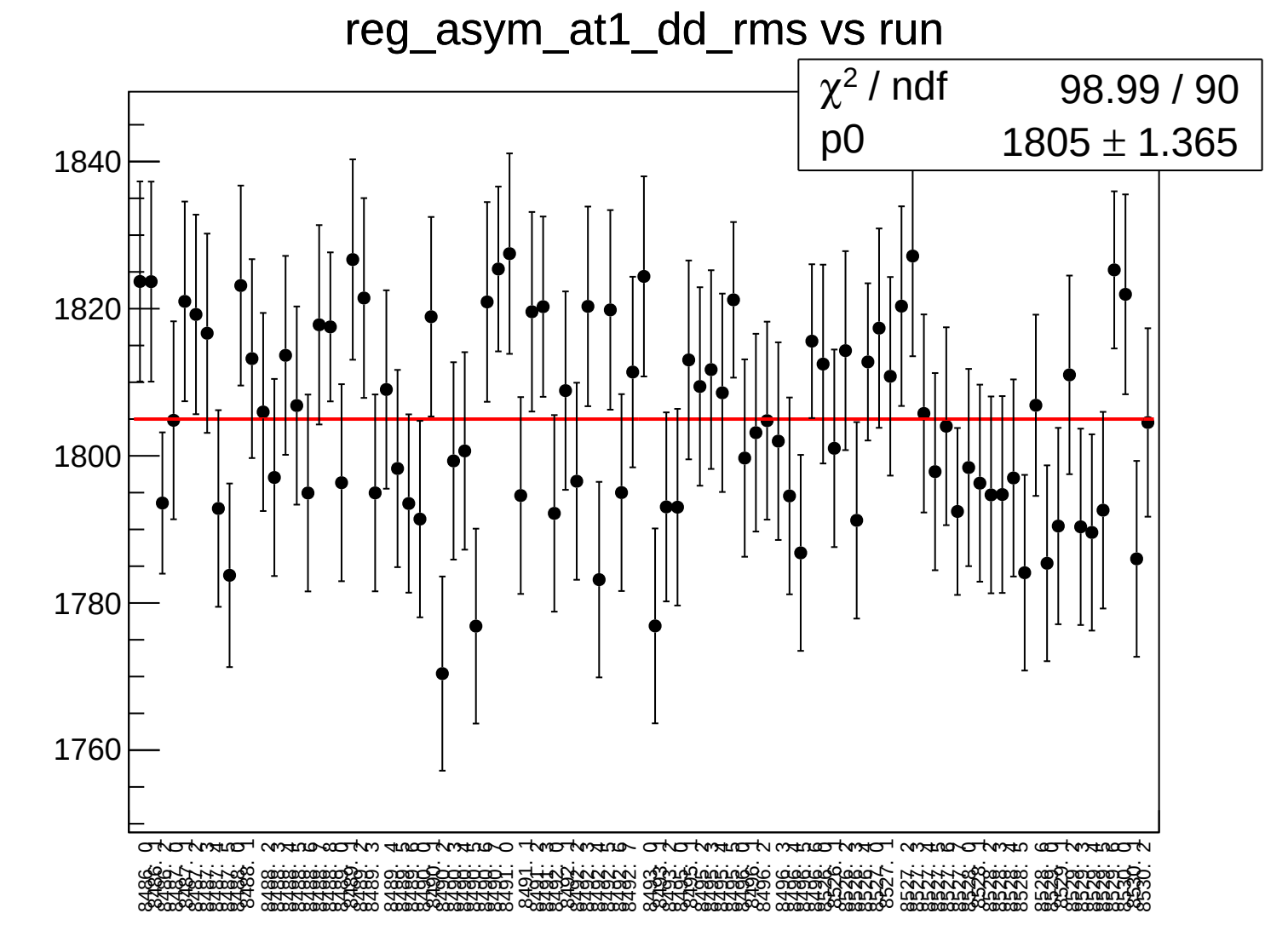

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.657e+05 / 90
p0 49.21 ± 0.03911
140
120
100
80
60
40
20

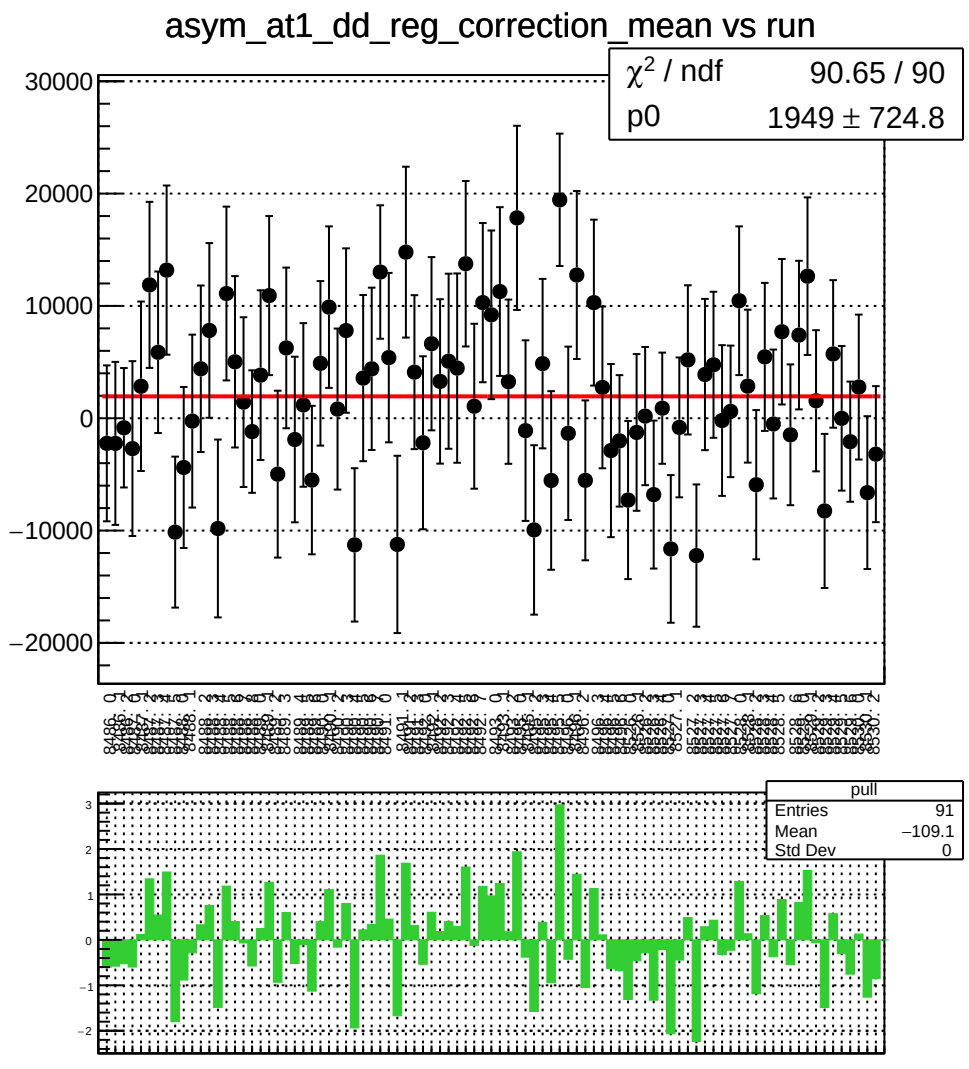

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81 / 90
p0 2.974e−14 ± 9.455e−14
pull
Entries 91
Mean 6.574
Std Dev 77.74
pull1D
Entries 91
Mean 0.01138
Std Dev 0.9434

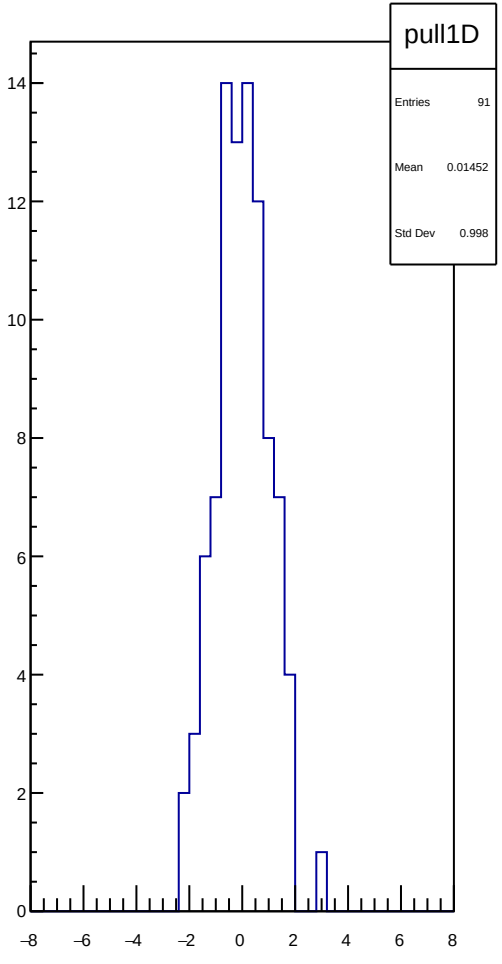

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.777e+05 / 90
p0 7.829e−11 ± 6.685e−14
0.3
0.25
0.2
0.15
0.1
0.05

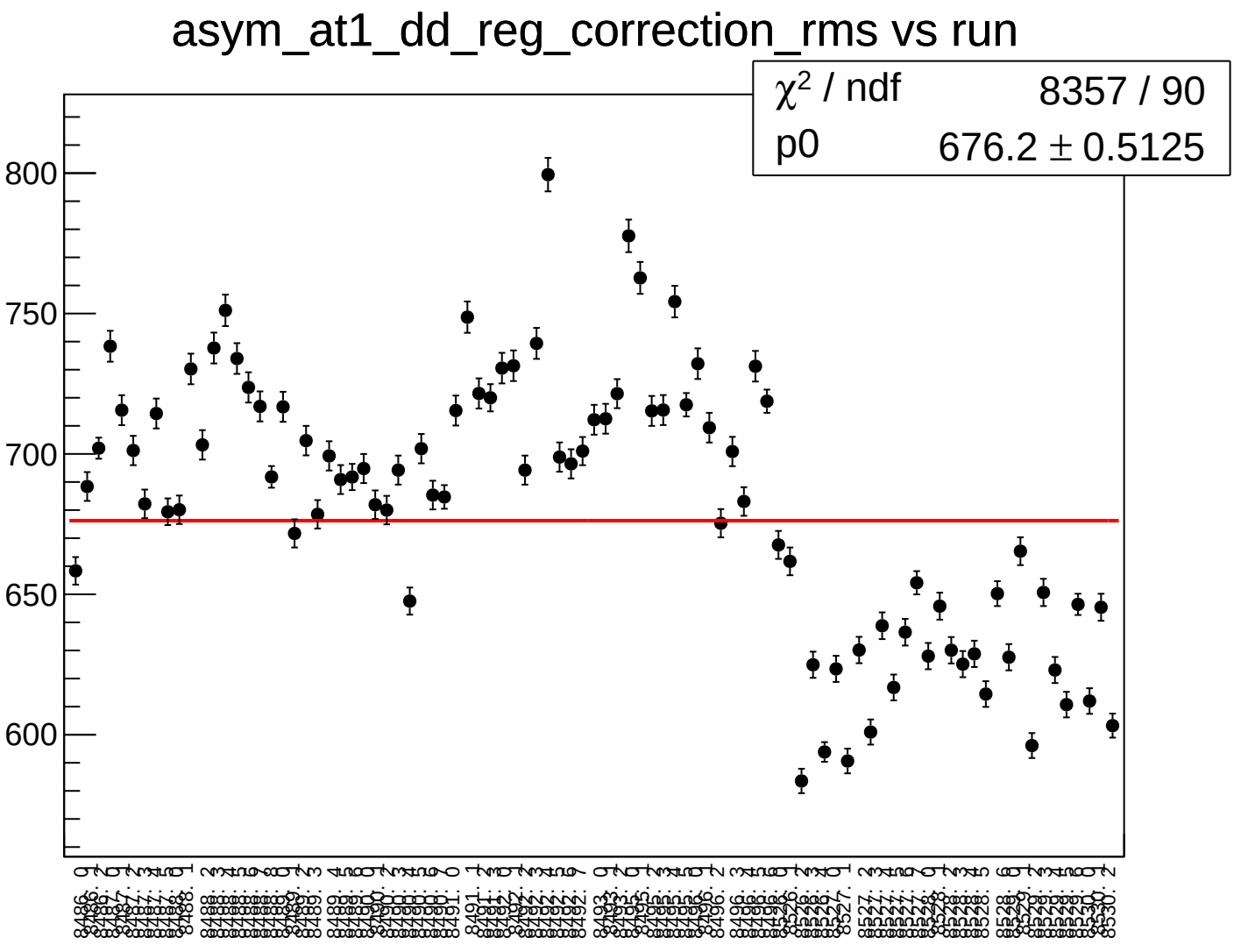

reg_asym_at1_dd_mean vs run
χ² / ndf 75.64 / 90
p0 −1921 ± 1930
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −293.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

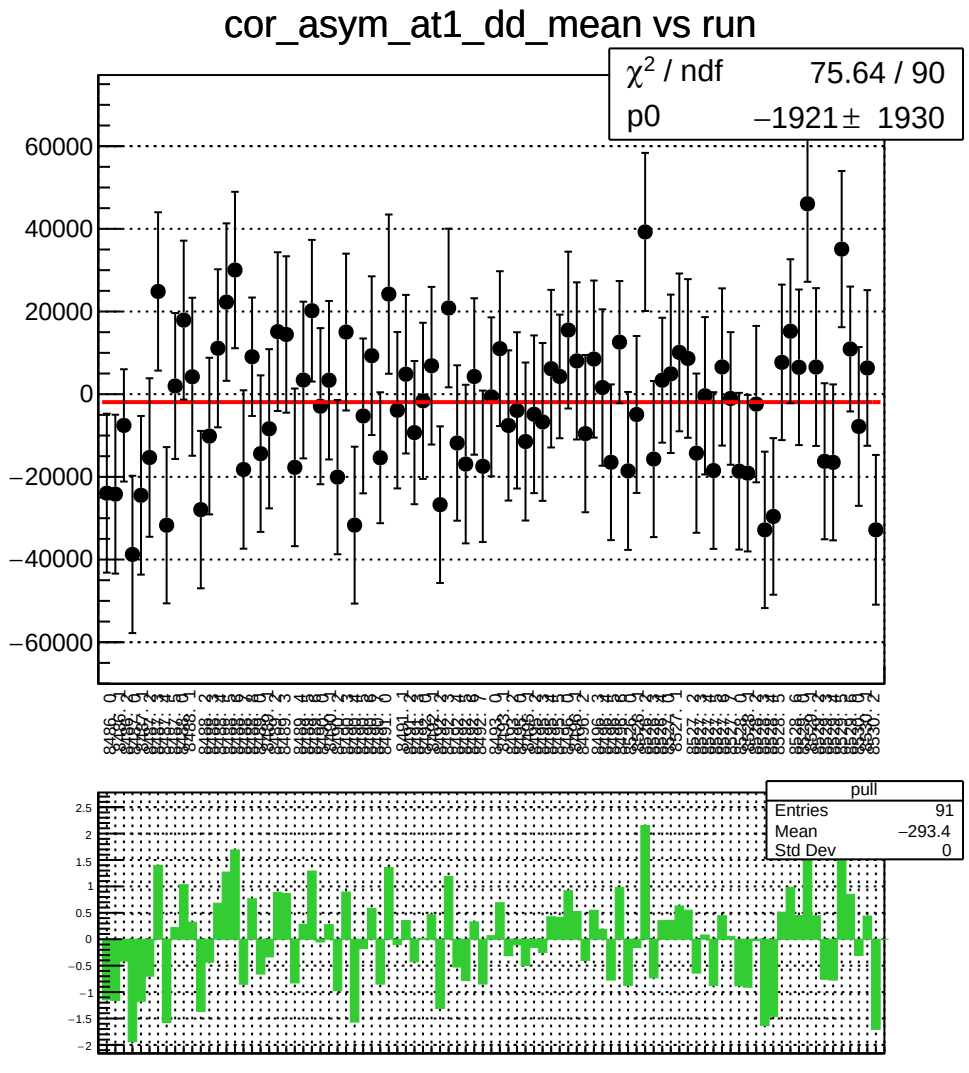

pull1D
Entries 91
Mean −0.007312
Std Dev 0.9117
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

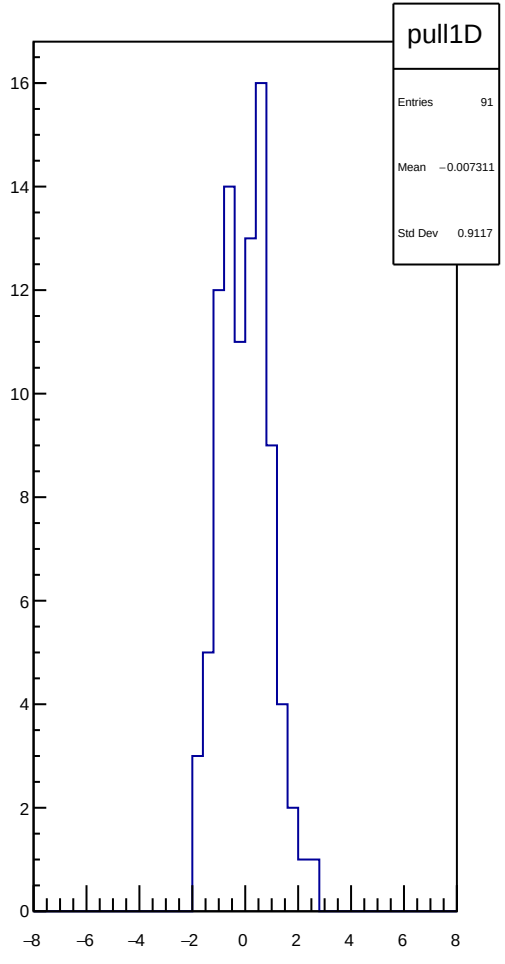

reg_asym_at1_dd_rms vs run
χ^2 / ndf 98.99 / 90
p0 1805 ± 1.365
1840
1820
1800
1780
1760


asym_at1_dd_reg_correction_mean vs run
χ² / ndf 90.65 / 90
p0 1949 ± 724.8
pull
Entries 91
Mean −109.1
Std Dev 0


pull1D
Entries 91
Mean 0.01452
Std Dev 0.998


asym_at1_dd_reg_correction_rms vs run
χ² / ndf 8357 / 90
p0 676.2 ± 0.5125
800
750
700
650
600


cor_asym_at1_dd_mean vs run
χ² / ndf 75.64 / 90
p0 −1921 ± 1930
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −293.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 91
Mean −0.007311
Std Dev 0.9117
16
14
12
10
8
6
4
2
0
−8
−6
−4
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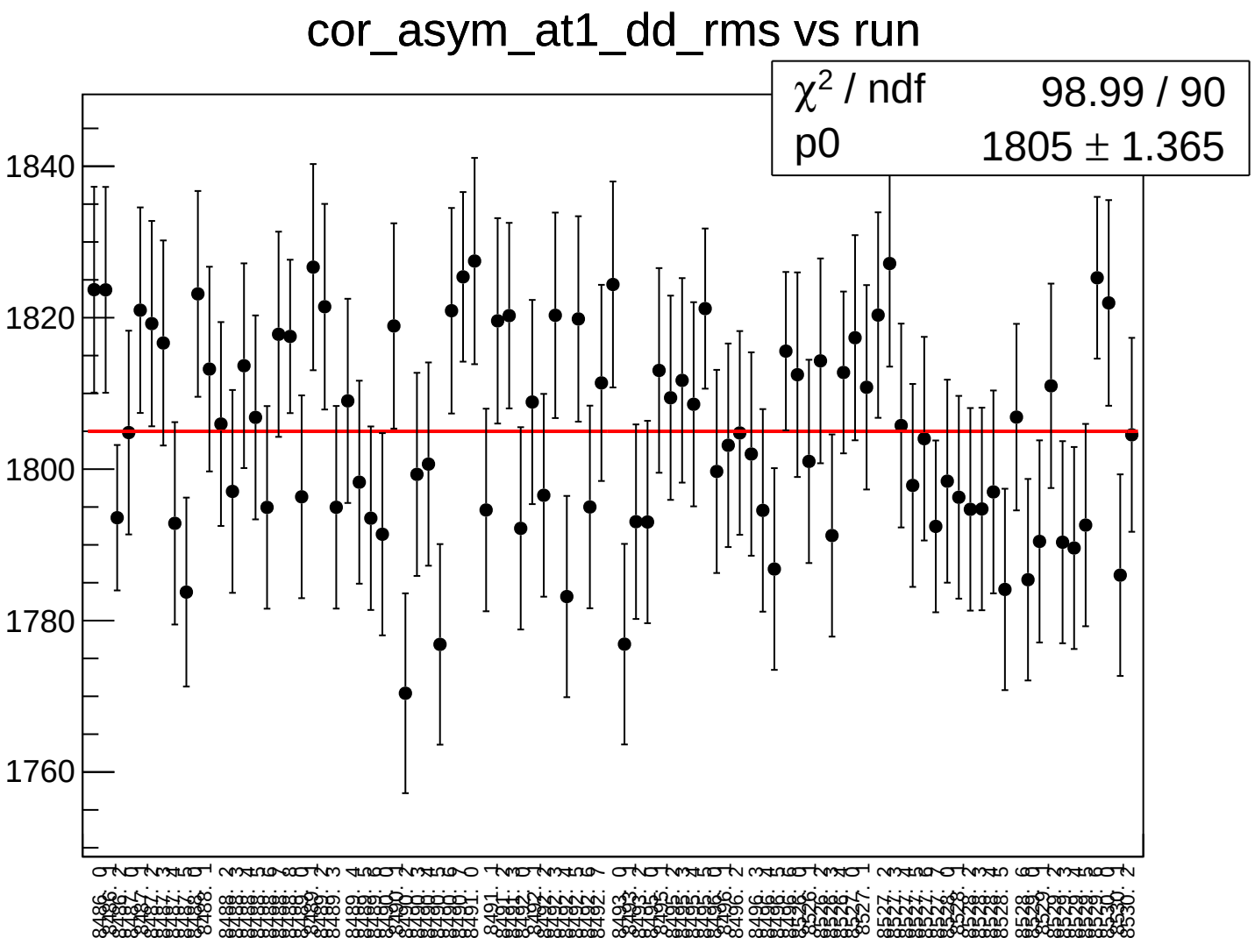
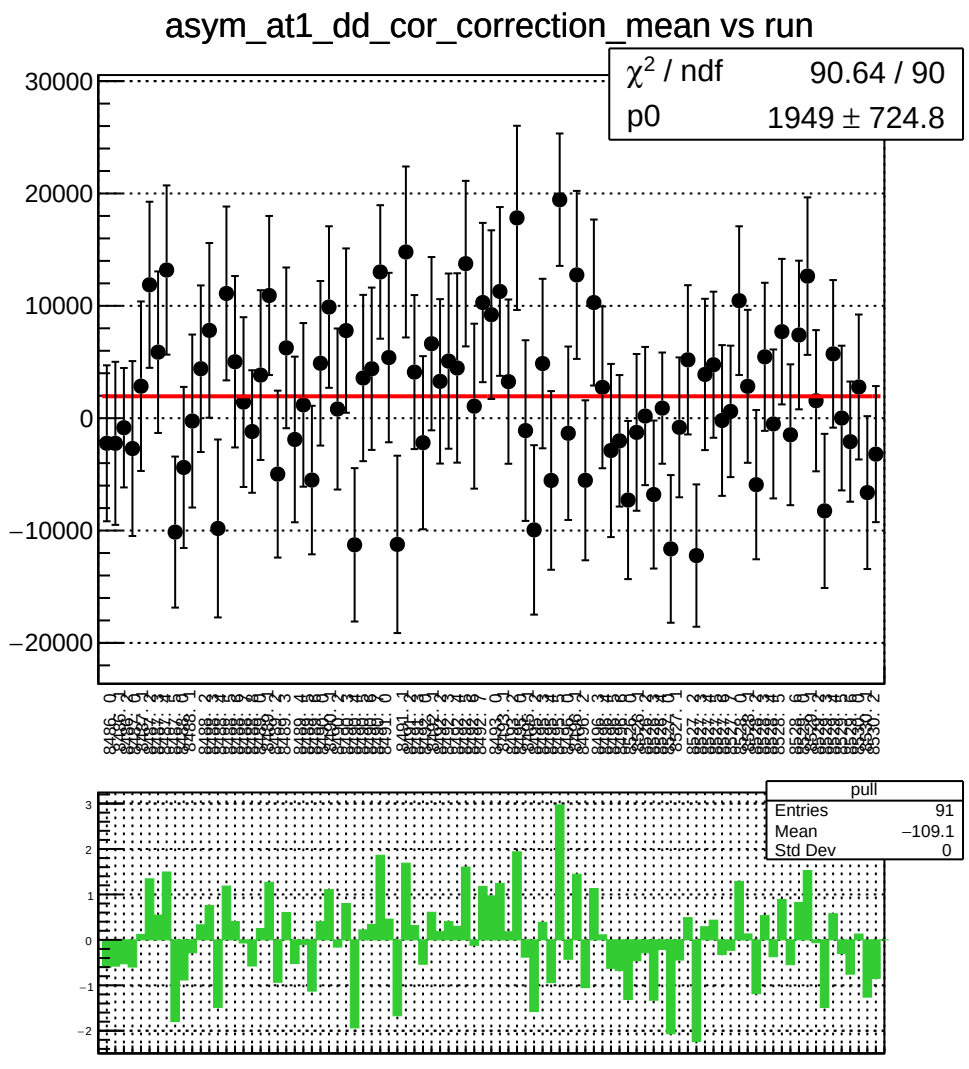
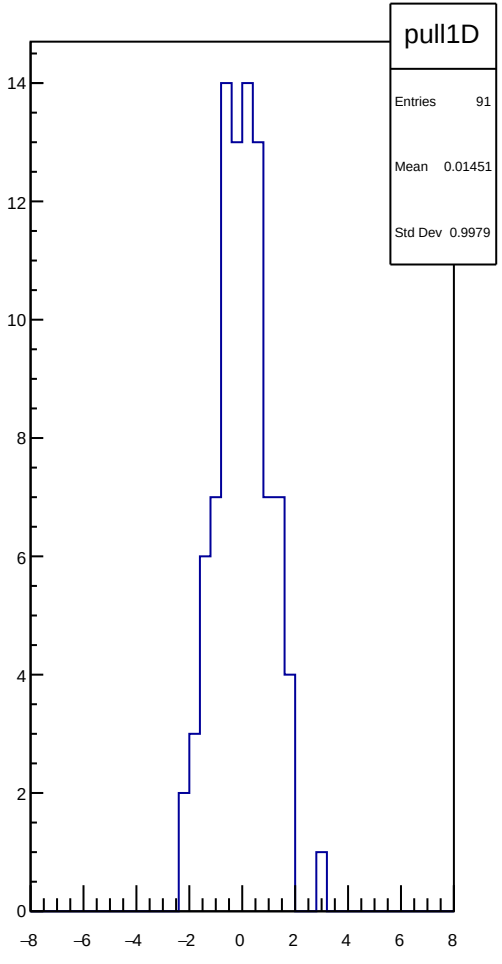
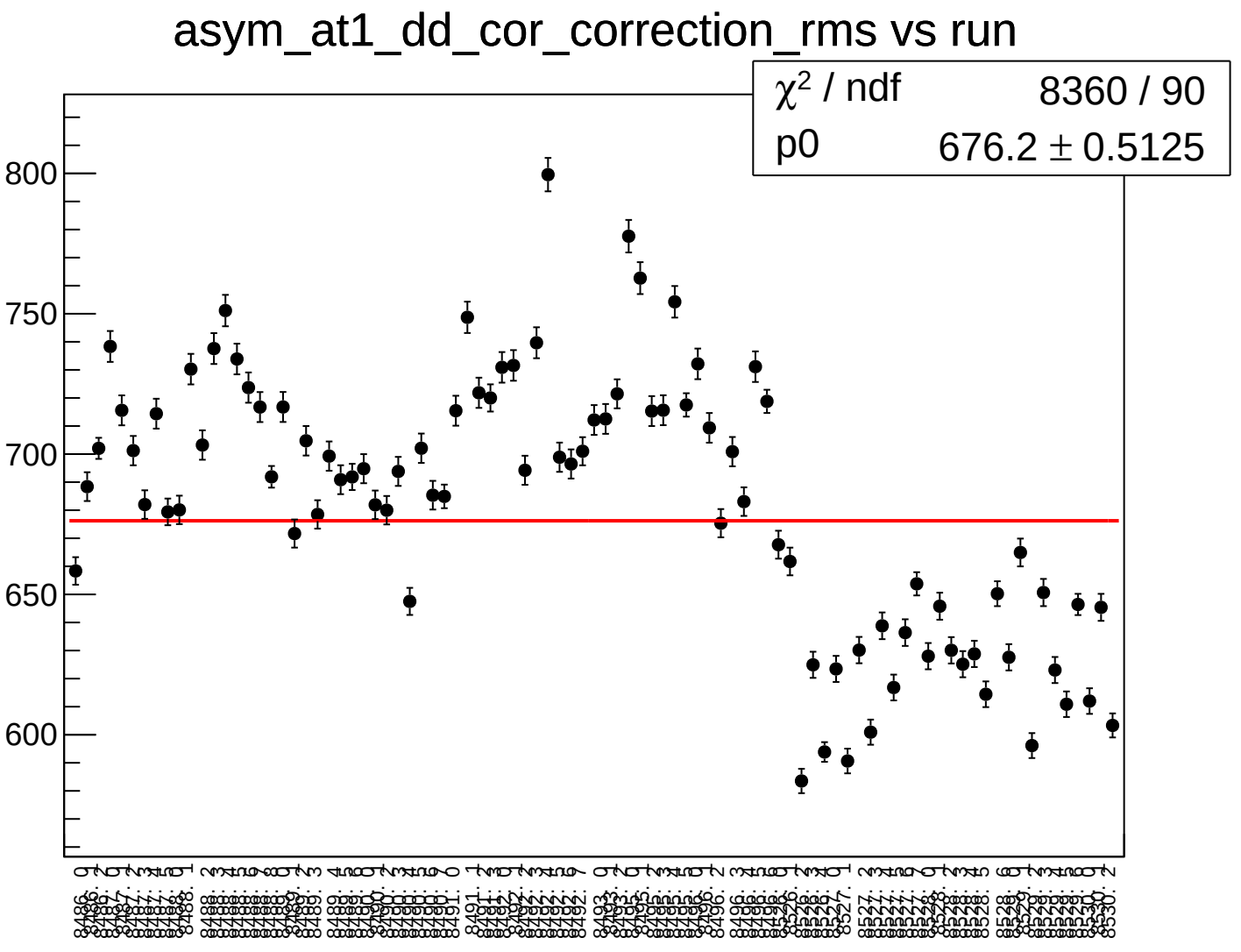
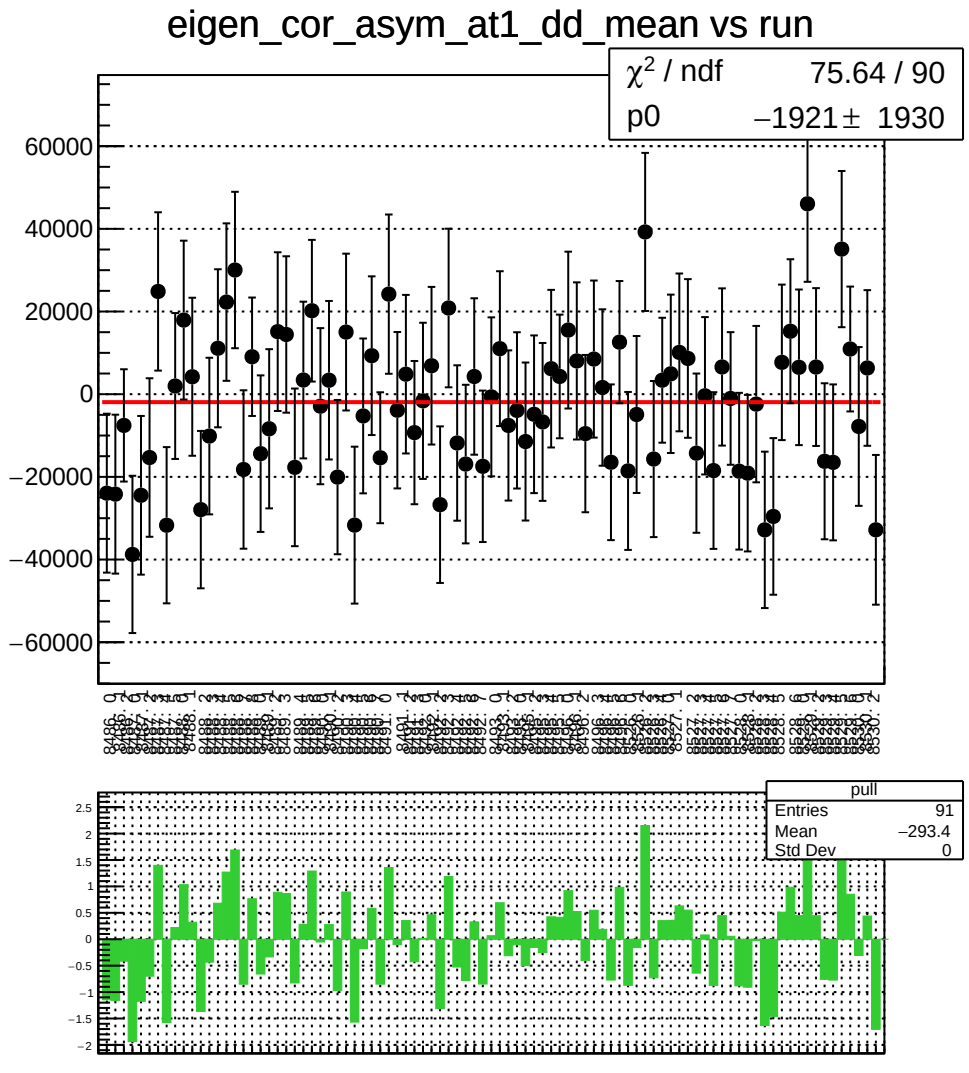
0
2
4
6
8

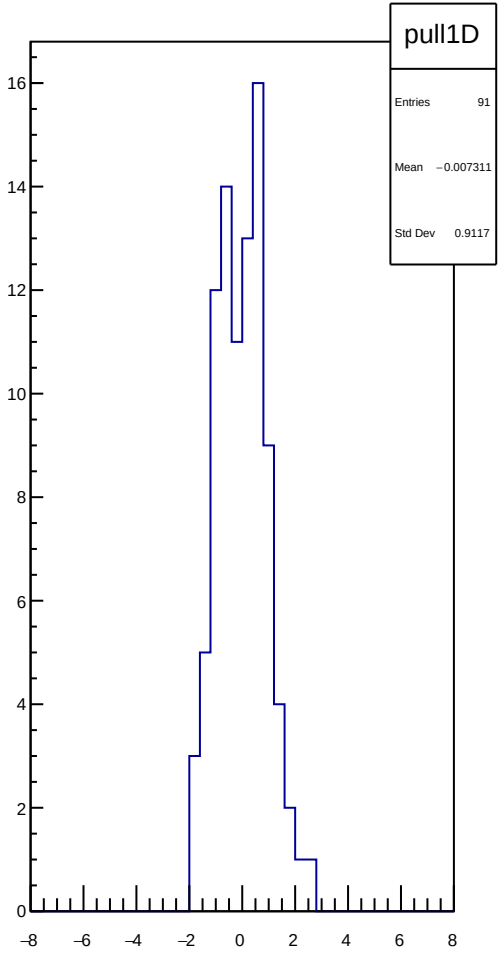

cor_asym_at1_dd_rms vs run
χ² / ndf 98.99 / 90
p0 1805 ± 1.365
1840
1820
1800
1780
1760


asym_at1_dd_cor_correction_mean vs run
χ² / ndf 90.64 / 90
p0 1949 ± 724.8
pull
Entries 91
Mean −109.1
Std Dev 0


pull1D
Entries 91
Mean 0.01451
Std Dev 0.9979


asym_at1_dd_cor_correction_rms vs run
χ² / ndf 8360 / 90
p0 676.2 ± 0.5125
800
750
700
650
600


eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 75.64 / 90
p0 −1921 ± 1930
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −293.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 91
Mean −0.007311
Std Dev 0.9117
16
14
12
10
8
6
4
2
0
−8
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−4
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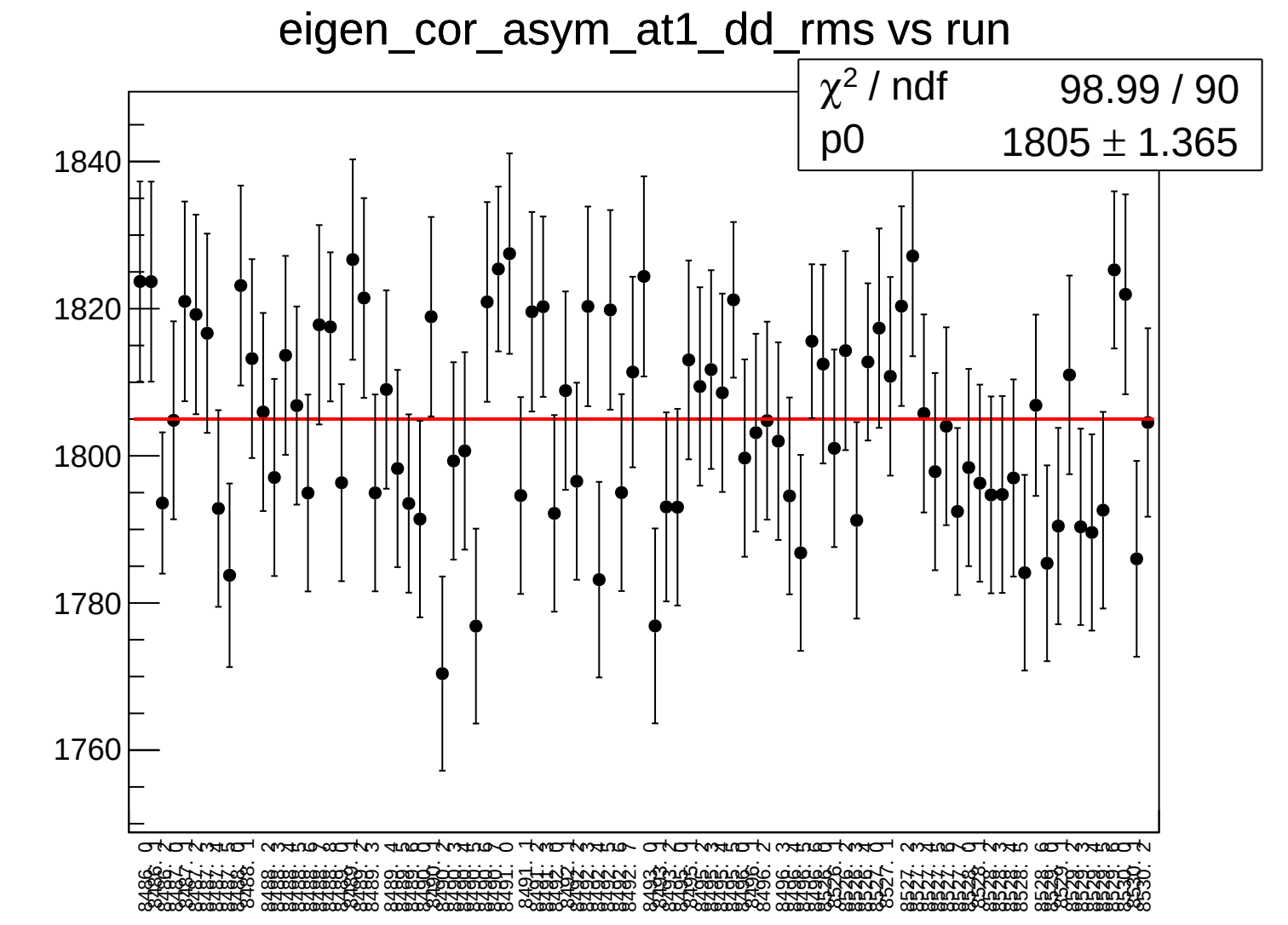
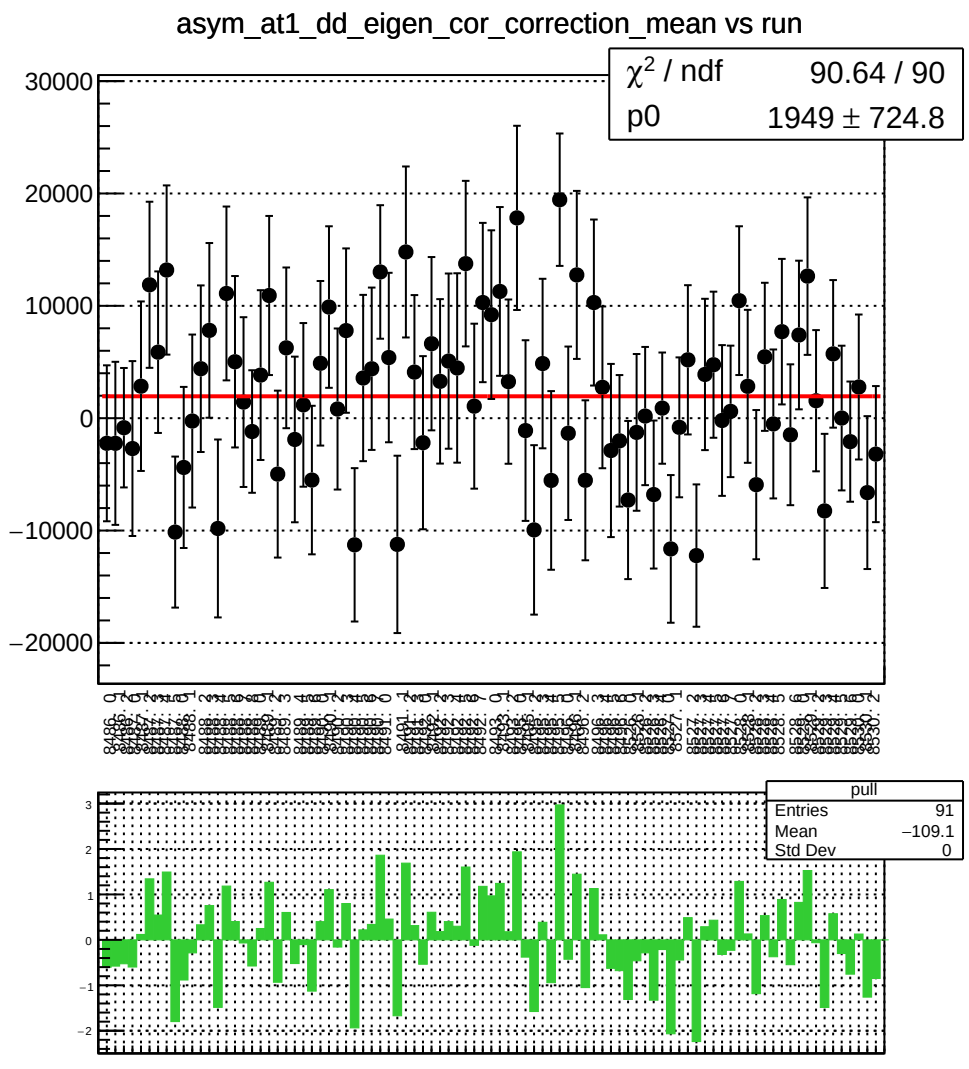
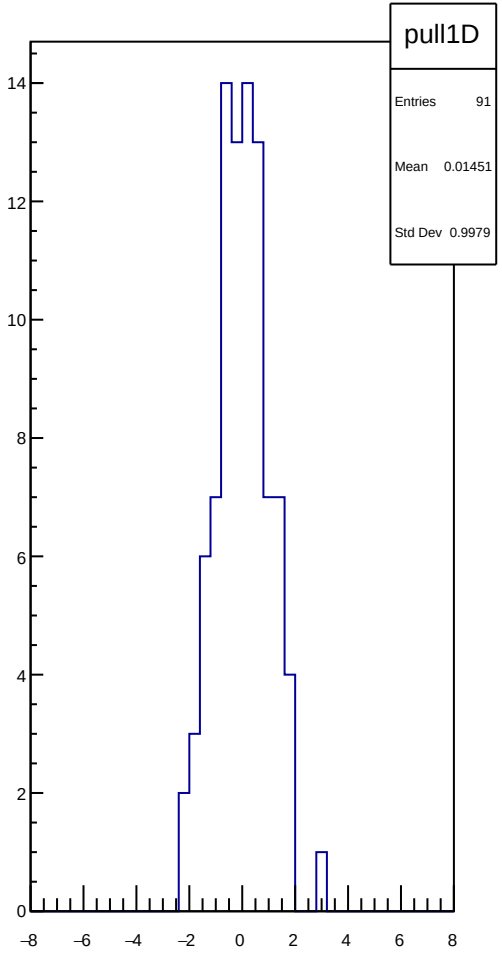
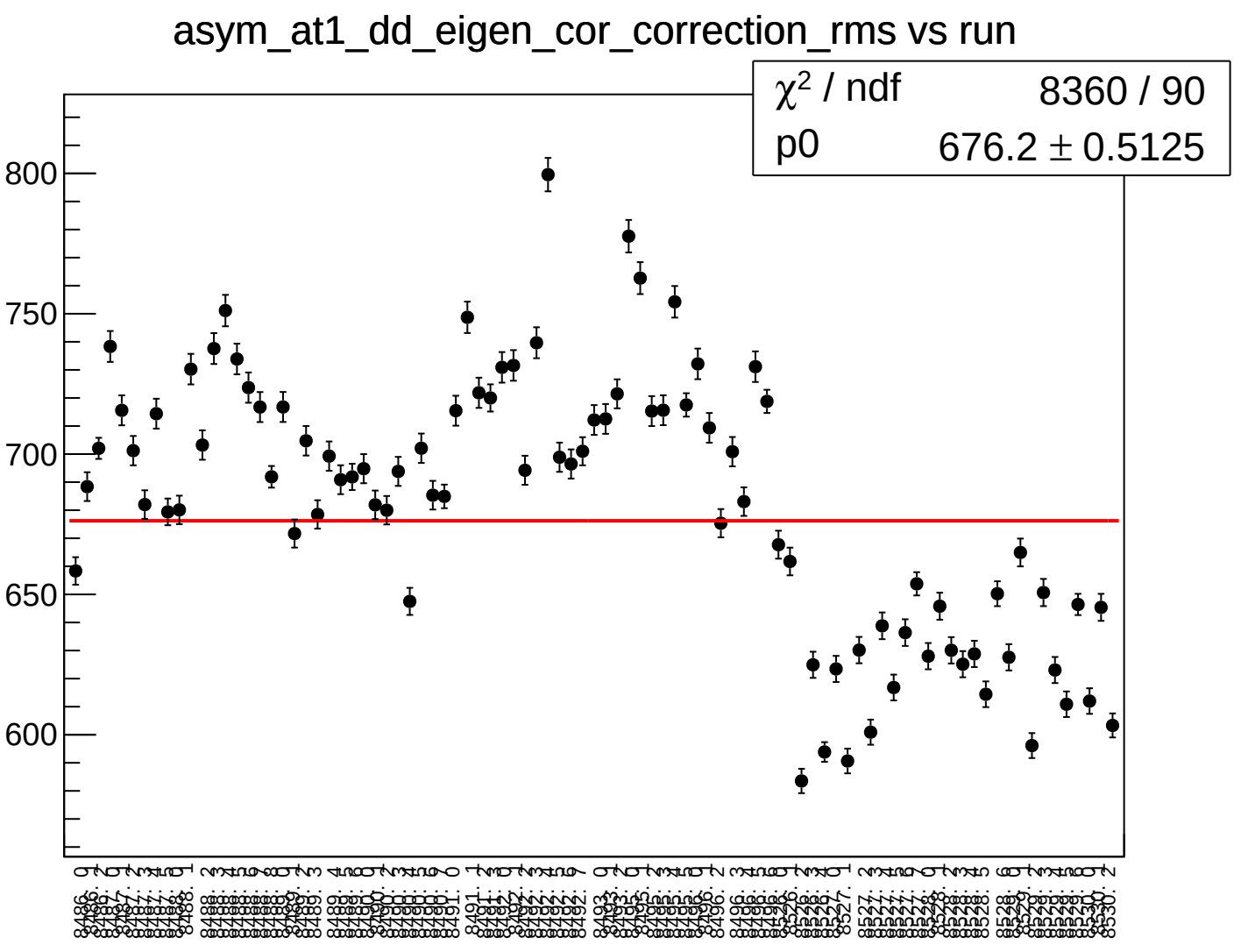
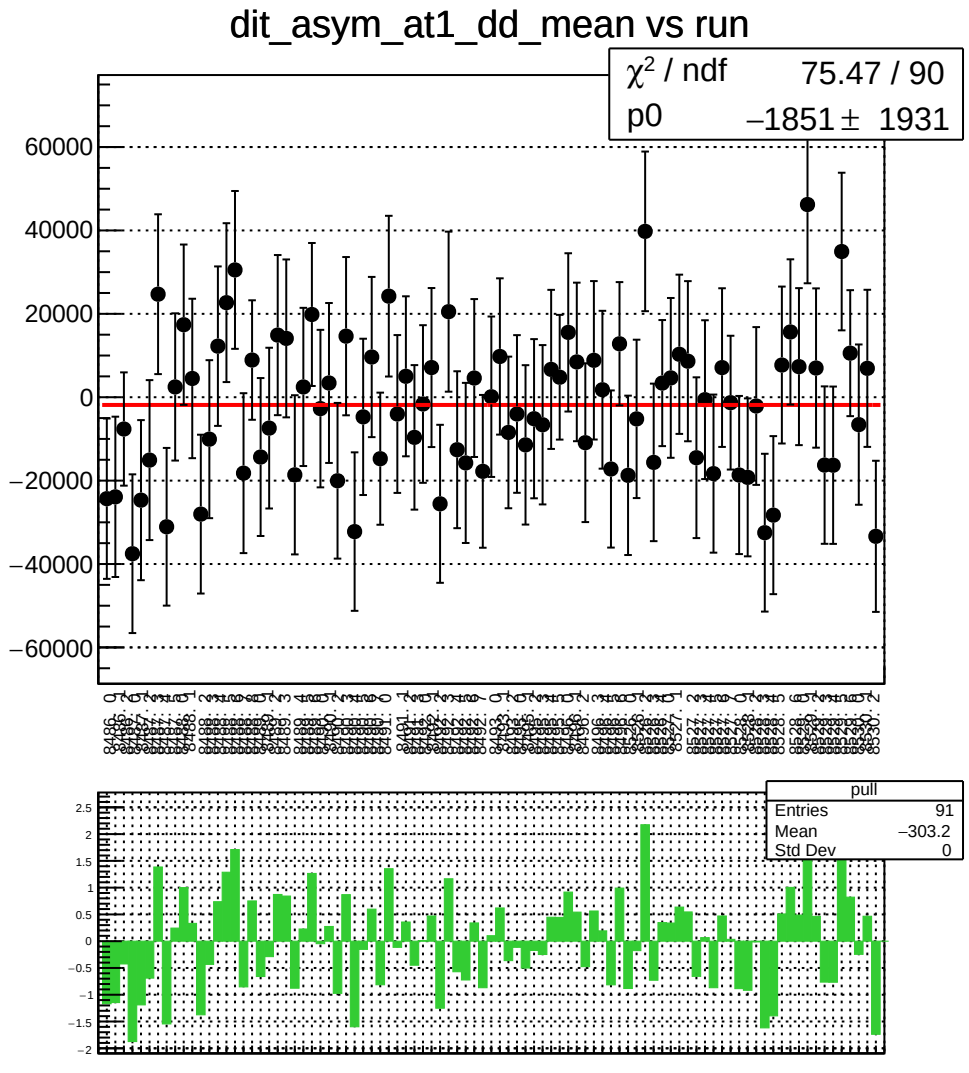
2
4
6
8

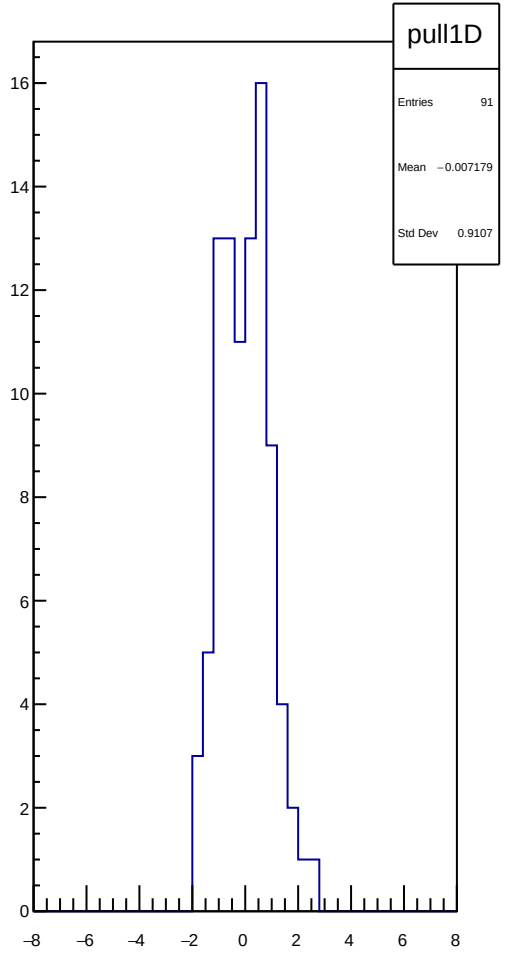

eigen_cor_asym_at1_dd_rms vs run
χ² / ndf 98.99 / 90
p0 1805 ± 1.365
1840
1820
1800
1780
1760

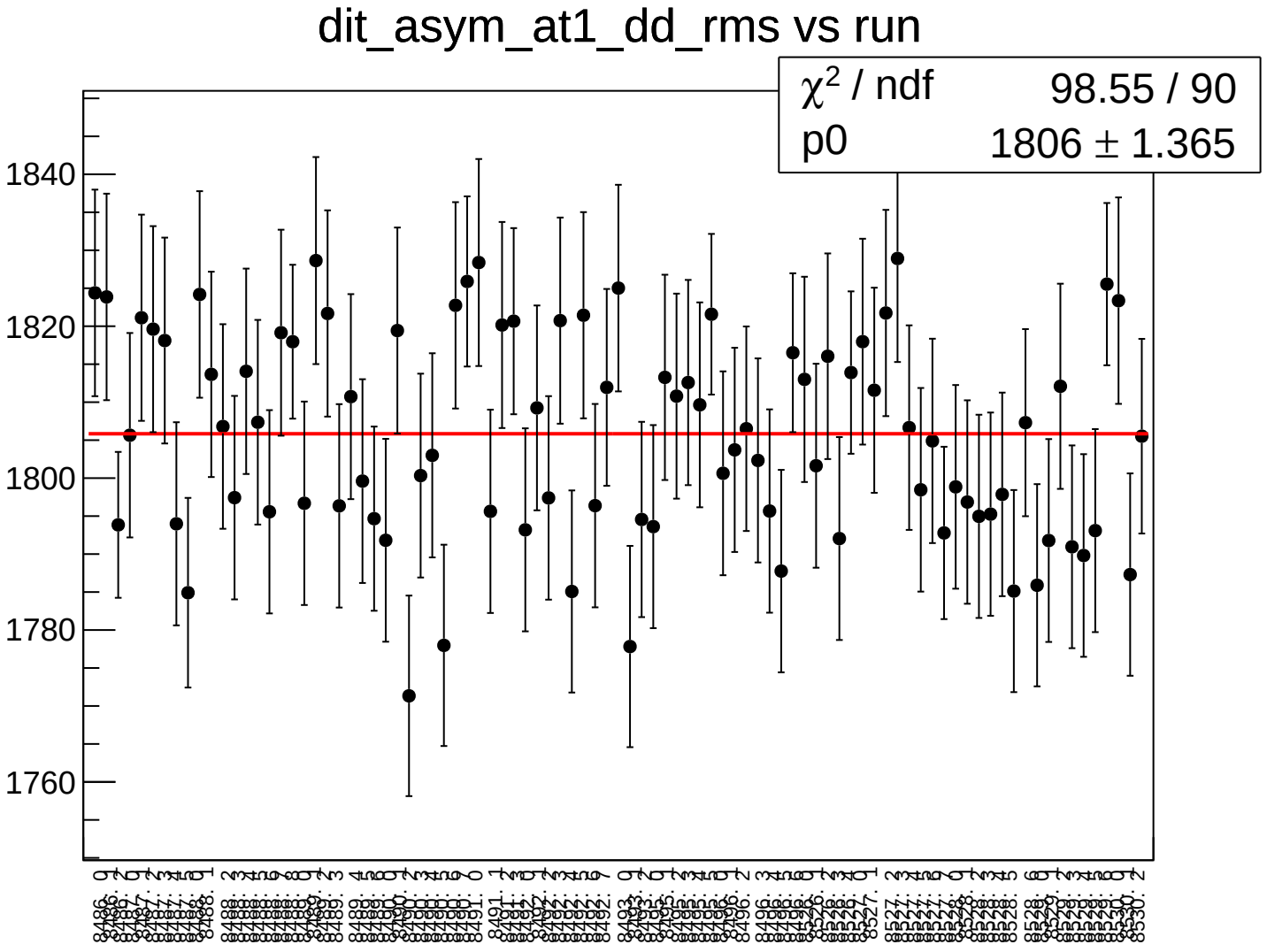

asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 90.64 / 90
p0 1949 ± 724.8
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean −109.1
Std Dev 0
3
2
1
0
−1
−2

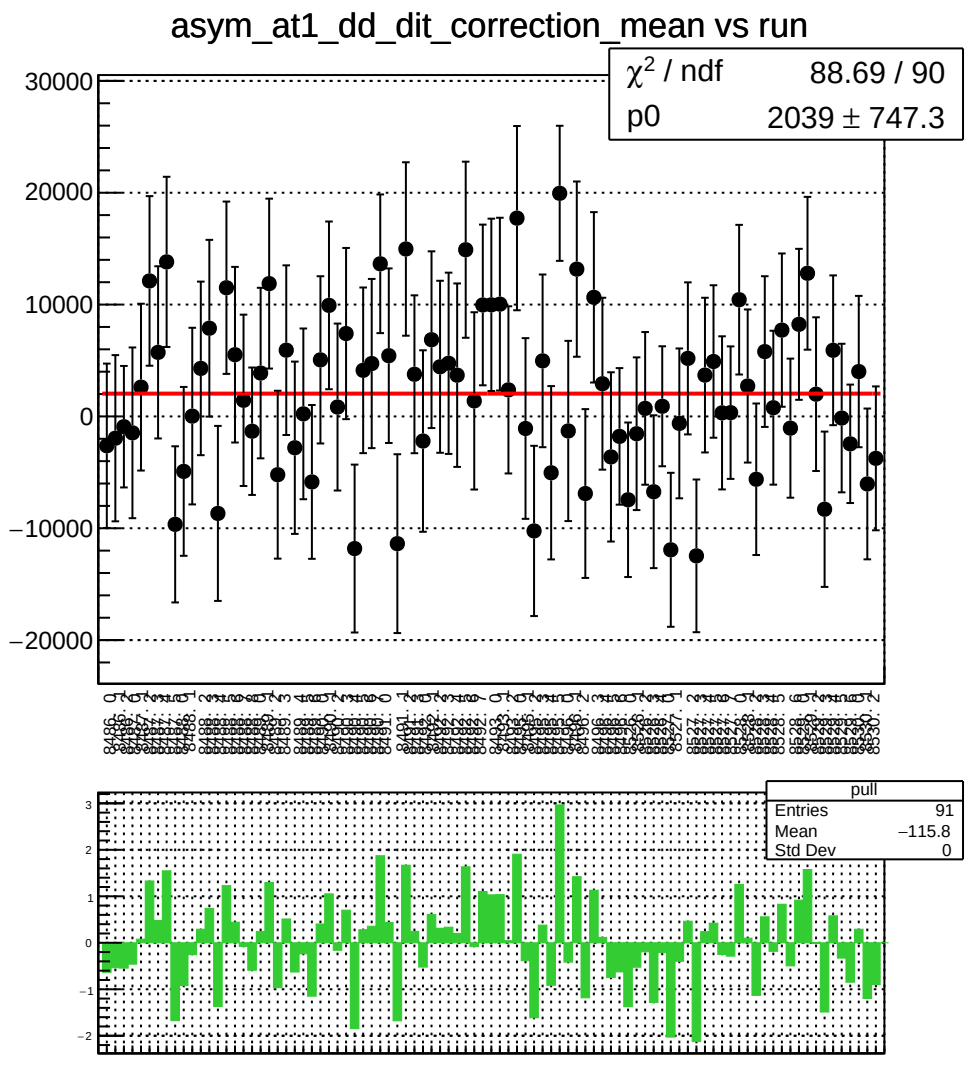

pull1D
Entries 91
Mean 0.01451
Std Dev 0.9979
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

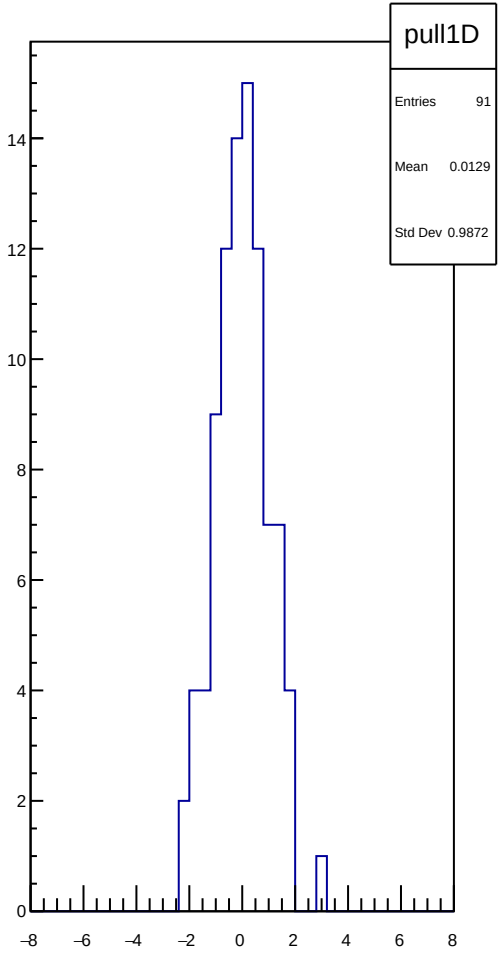

asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 8360 / 90
p0 676.2 ± 0.5125
800
750
700
650
600

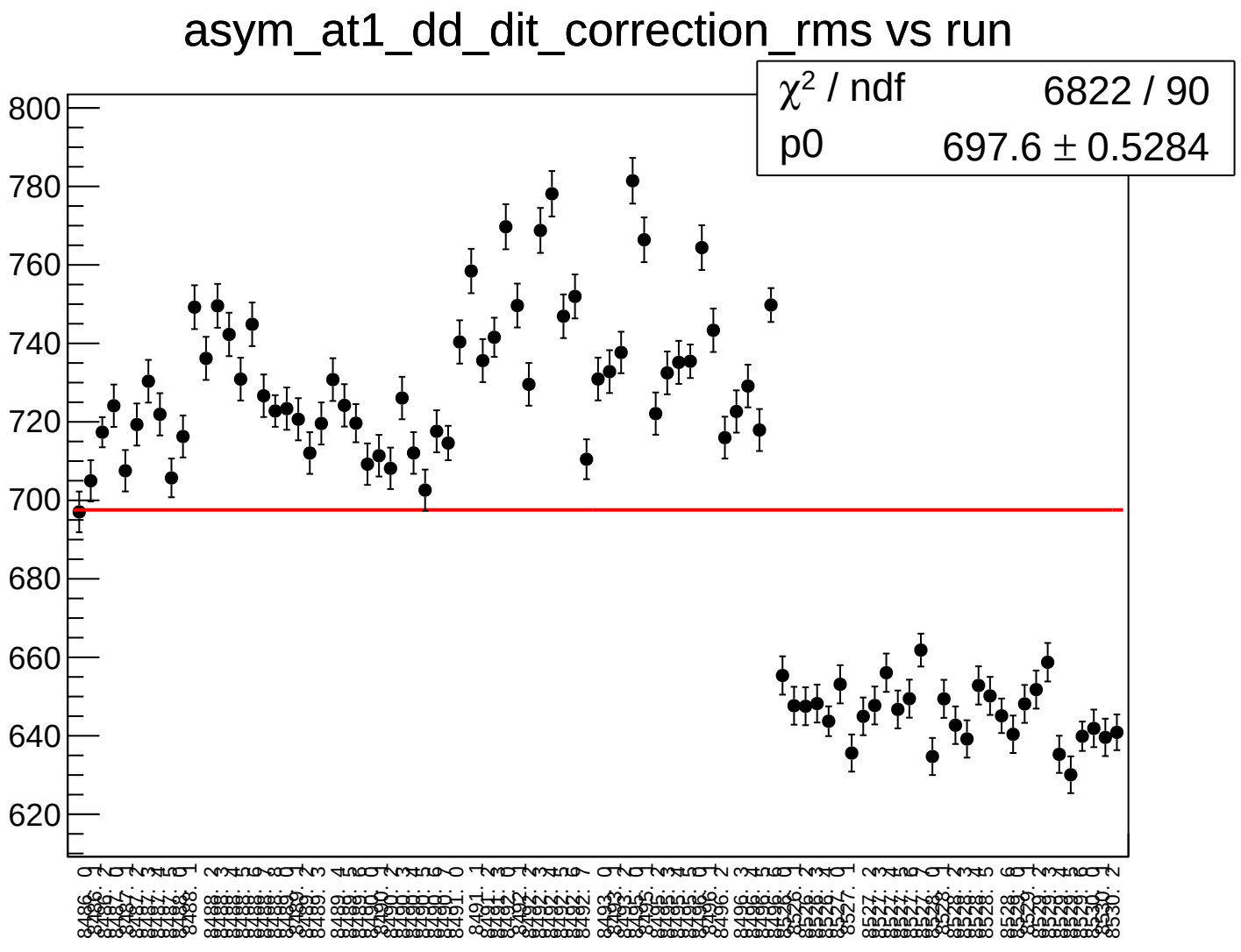

dit_asym_at1_dd_mean vs run
χ² / ndf 75.47 / 90
p0 −1851 ± 1931
pull
Entries 91
Mean −303.2
Std Dev 0

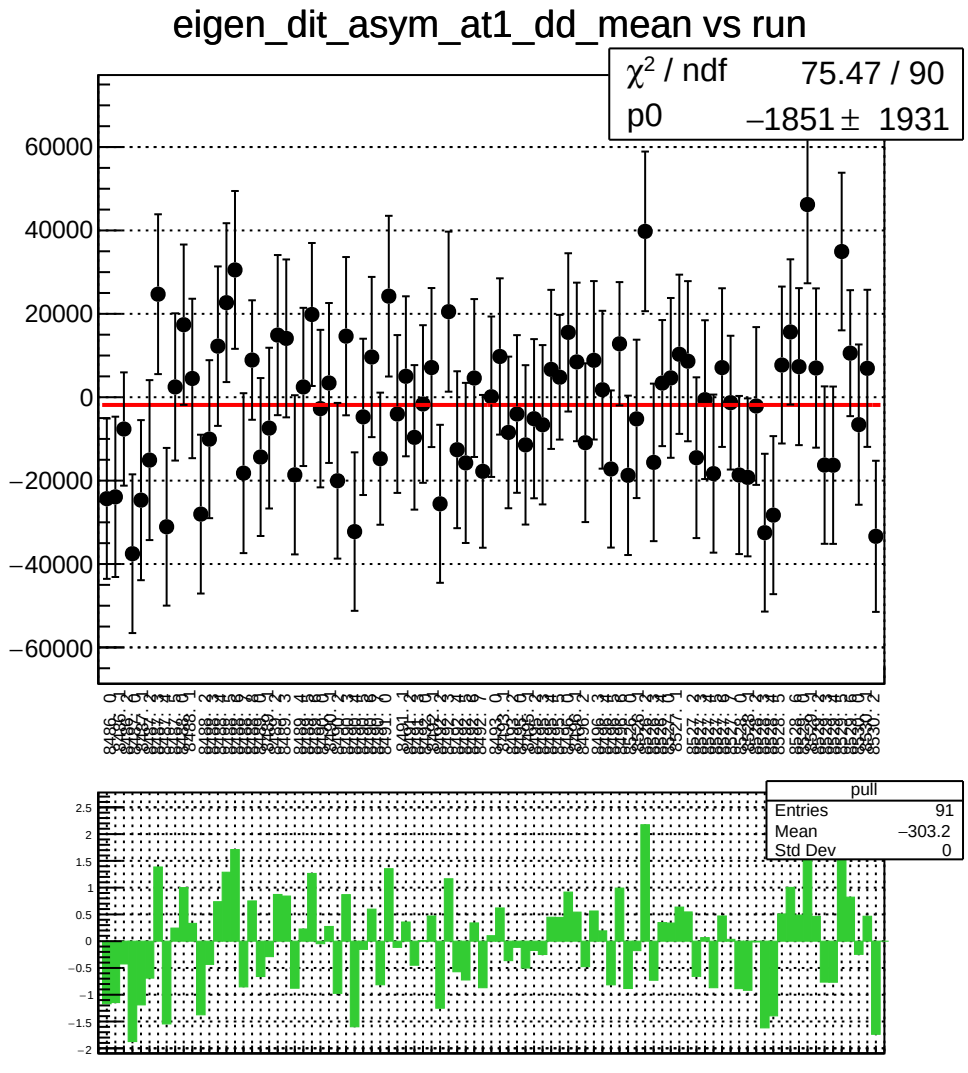

pull1D
Entries 91
Mean −0.007179
Std Dev 0.9107

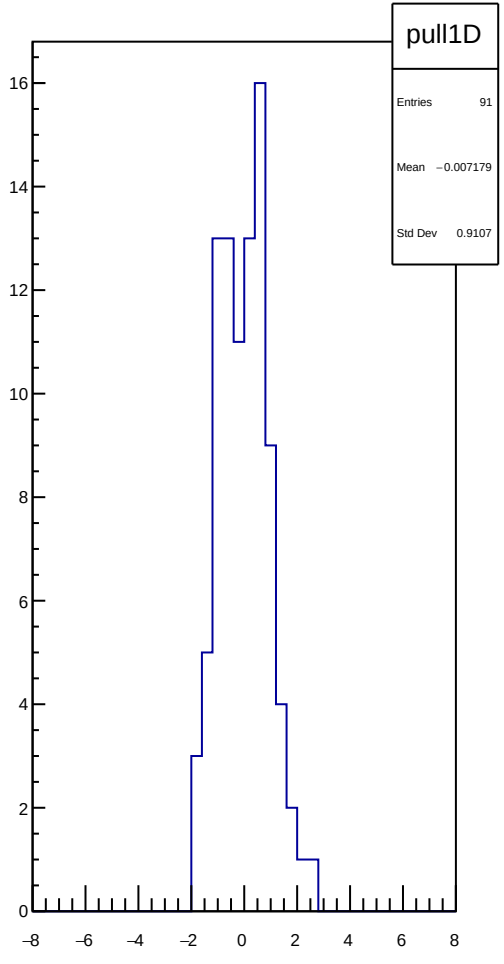

dit_asym_at1_dd_rms vs run
χ^2 / ndf 98.55 / 90
p0 1806 ± 1.365
1840
1820
1800
1780
1760

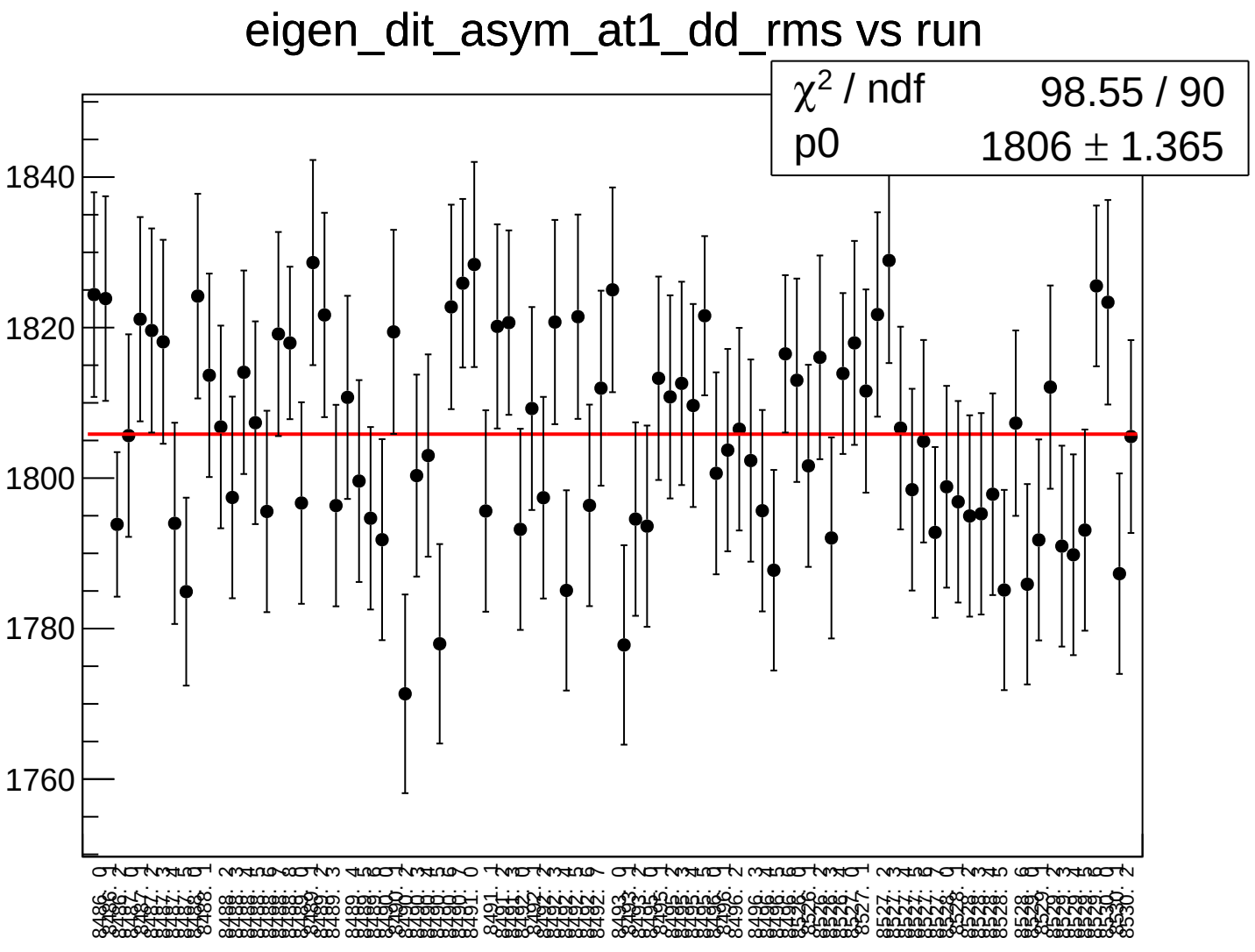

asym_at1_dd_dit_correction_mean vs run
χ² / ndf 88.69 / 90
p0 2039 ± 747.3
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean −115.8
Std Dev 0
3
2
1
0
−1
−2

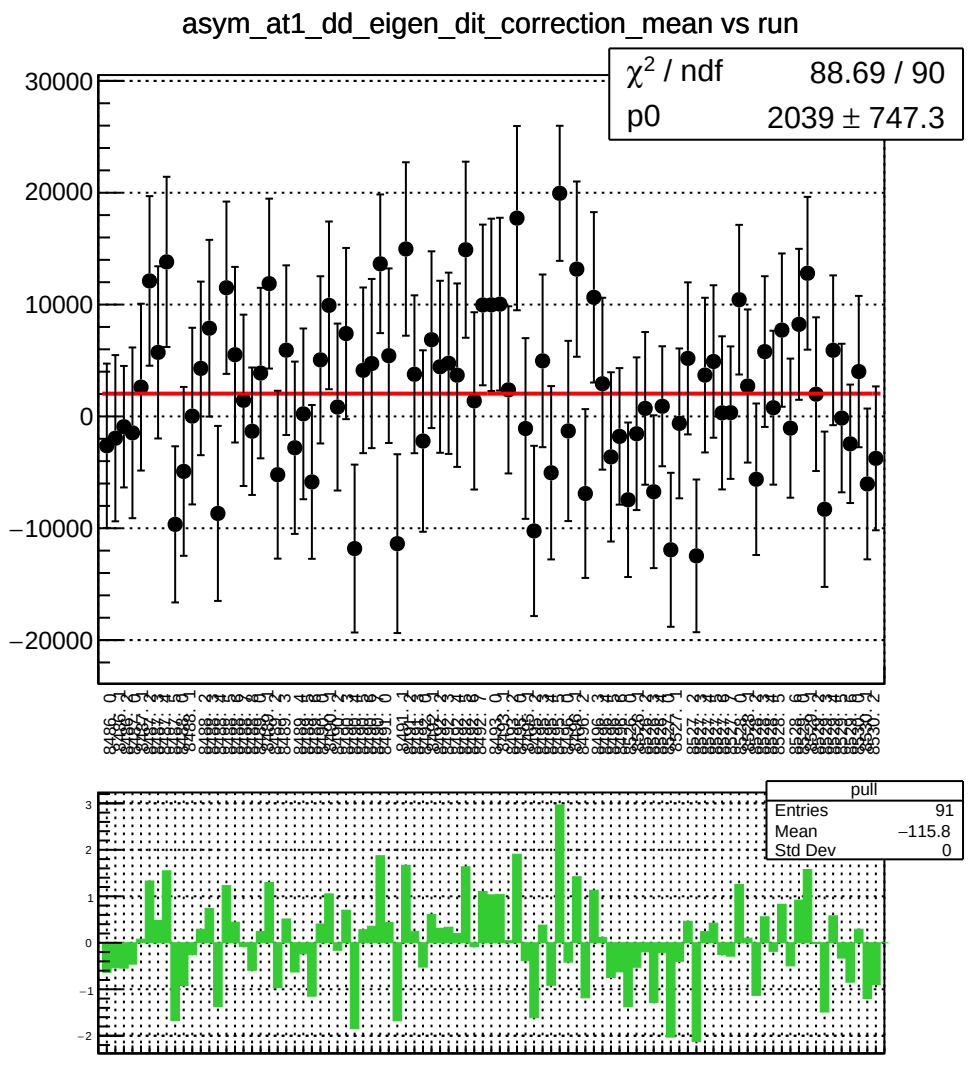

pull1D
Entries 91
Mean 0.0129
Std Dev 0.9872
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

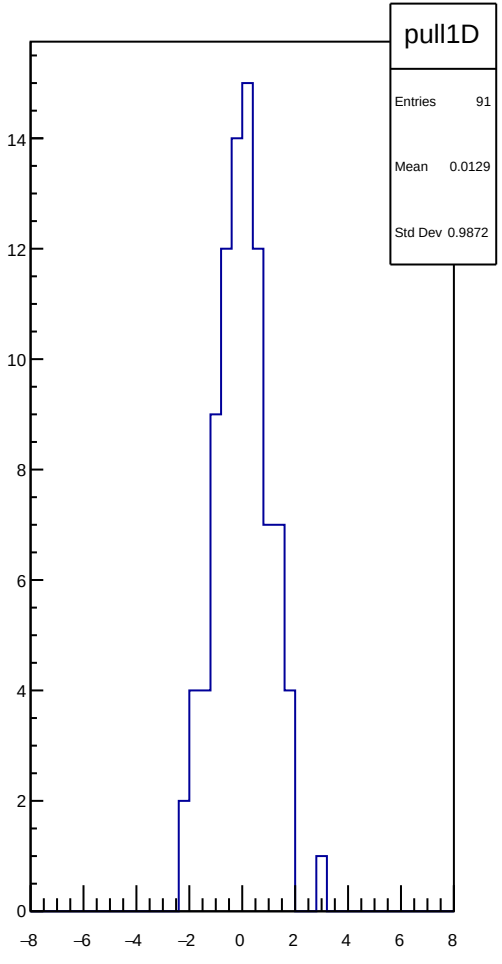

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 6822 / 90
p0 697.6 ± 0.5284
800
780
760
740
720
700
680
660
640
620

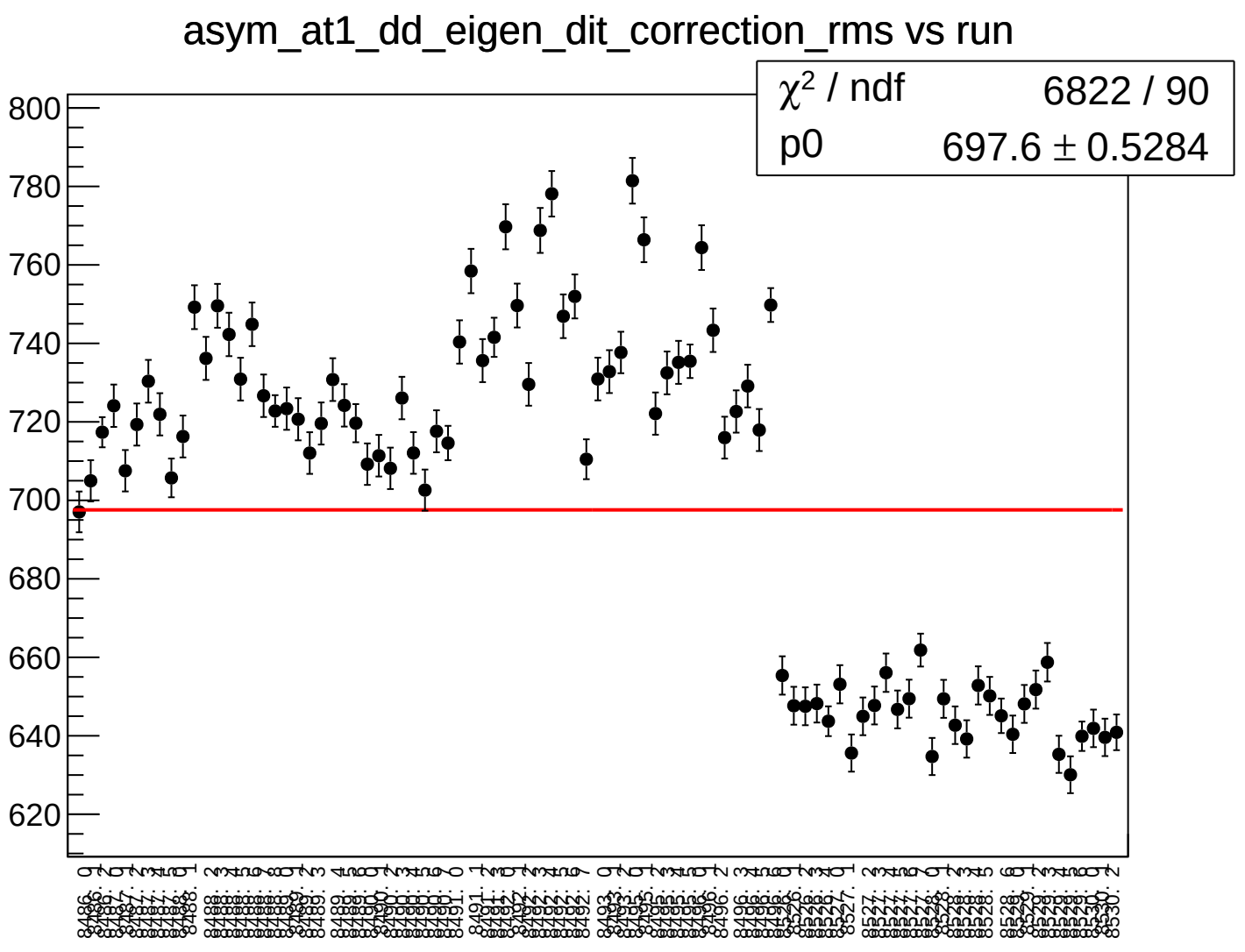

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 75.47 / 90
p0 −1851 ± 1931
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −303.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

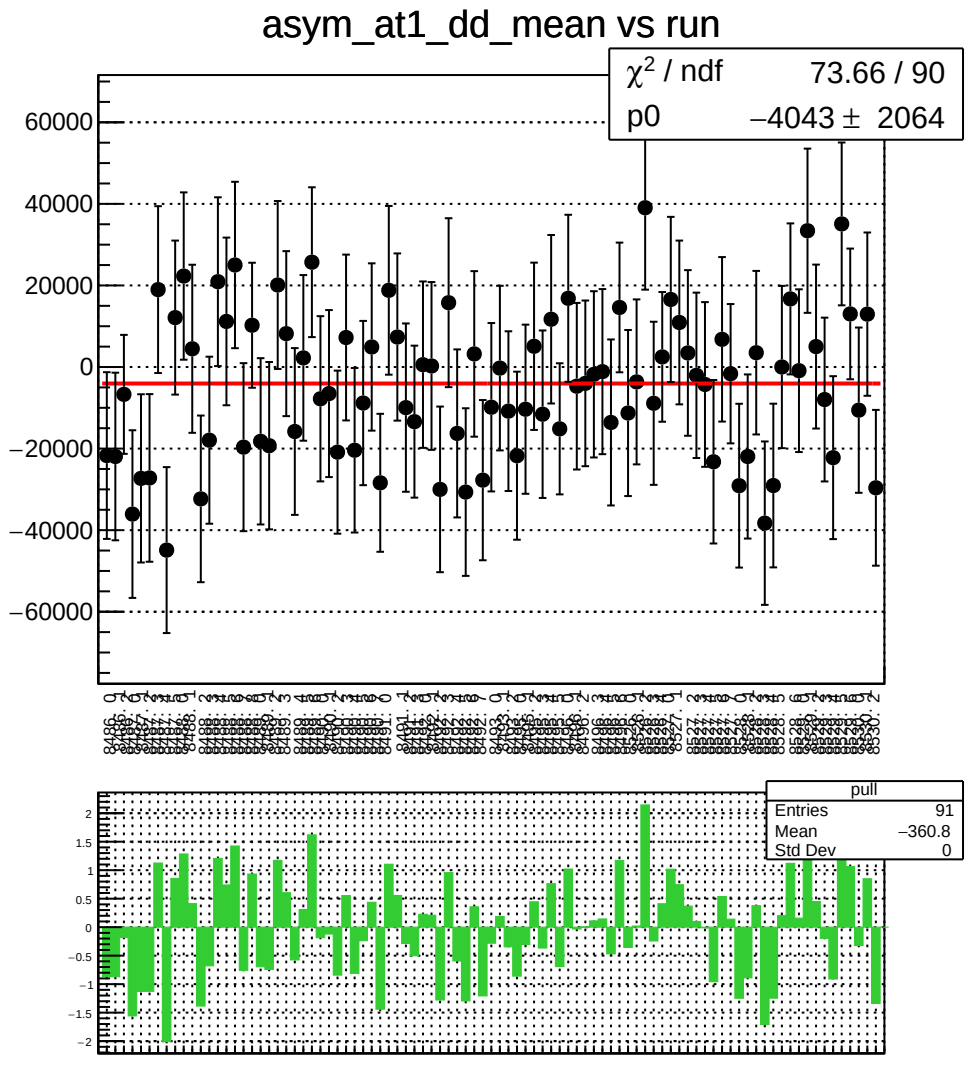

pull1D
Entries 91
Mean −0.007179
Std Dev 0.9107
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

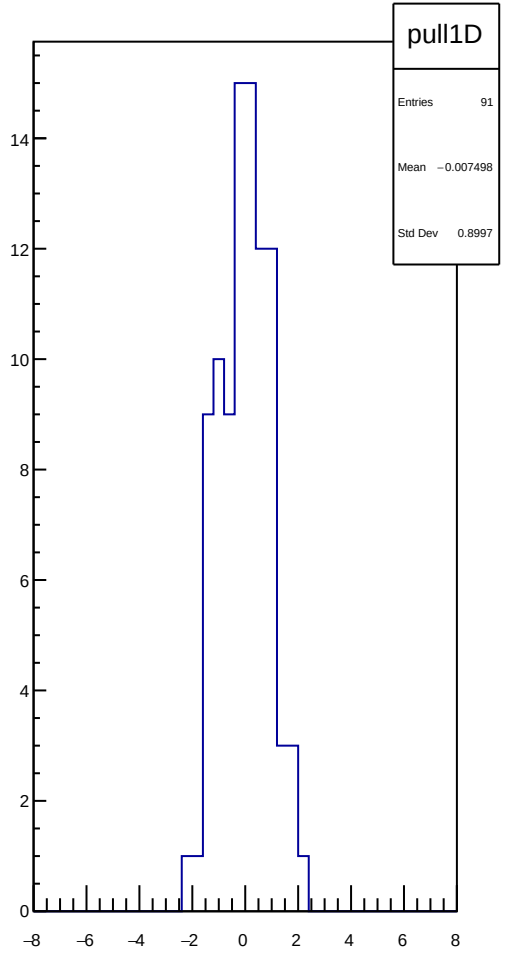

eigen_dit_asym_at1_dd_rms vs run
χ² / ndf 98.55 / 90
p0 1806 ± 1.365
1840
1820
1800
1780
1760

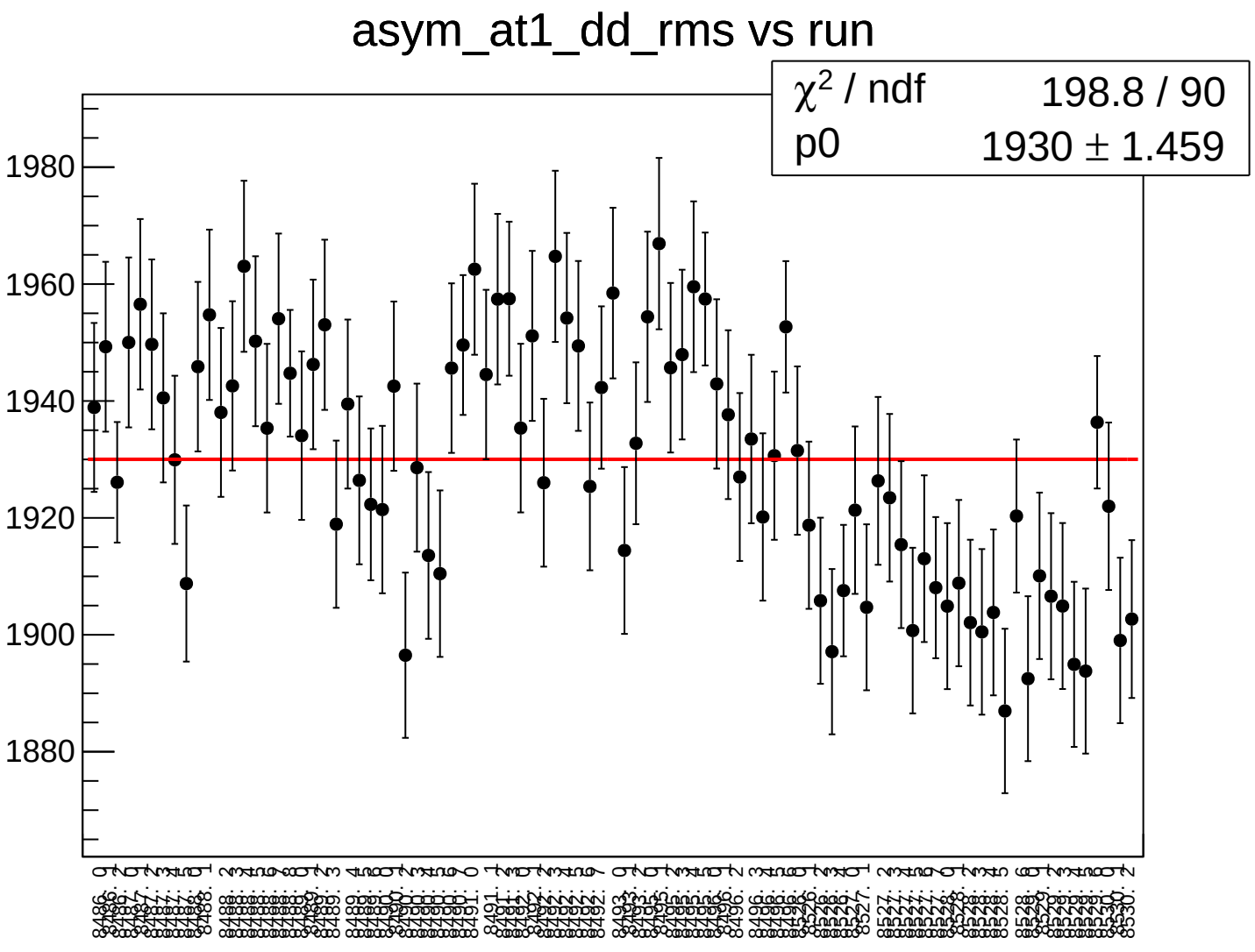

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 88.69 / 90
p0 2039 ± 747.3
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean −115.8
Std Dev 0
3
2
1
0
−1
−2

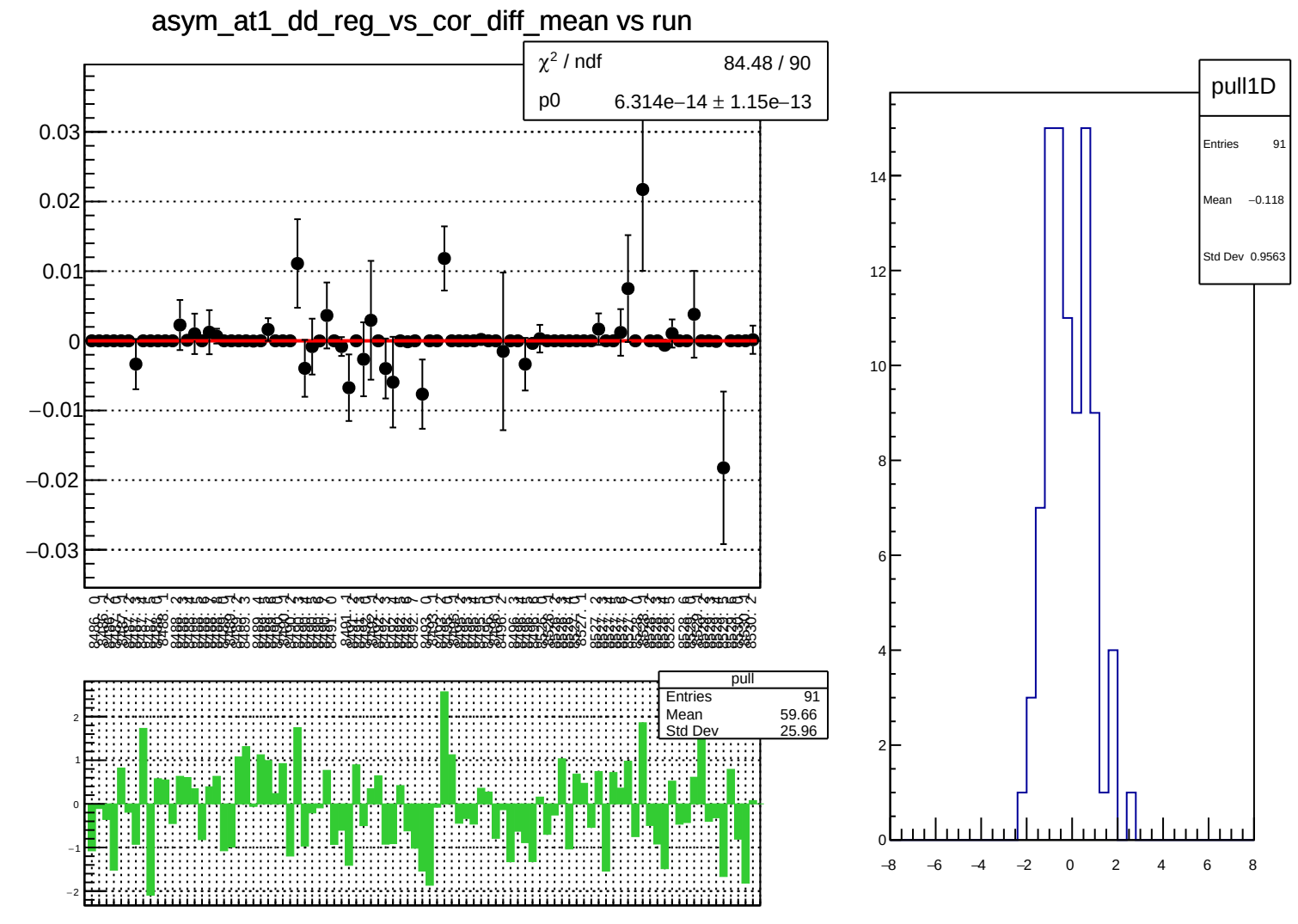

pull1D
Entries 91
Mean 0.0129
Std Dev 0.9872
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

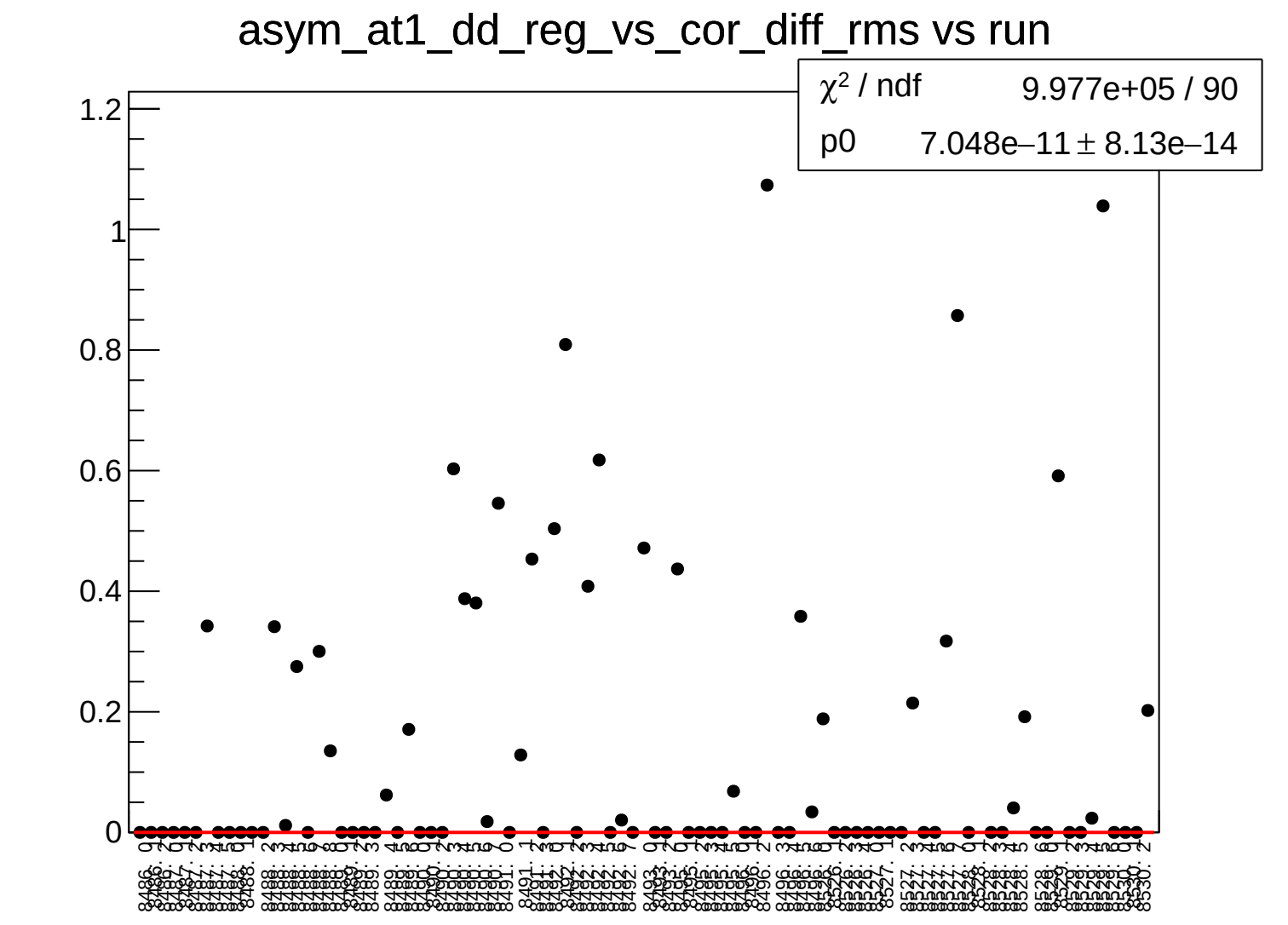

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 6822 / 90
p0 697.6 ± 0.5284
800
780
760
740
720
700
680
660
640
620

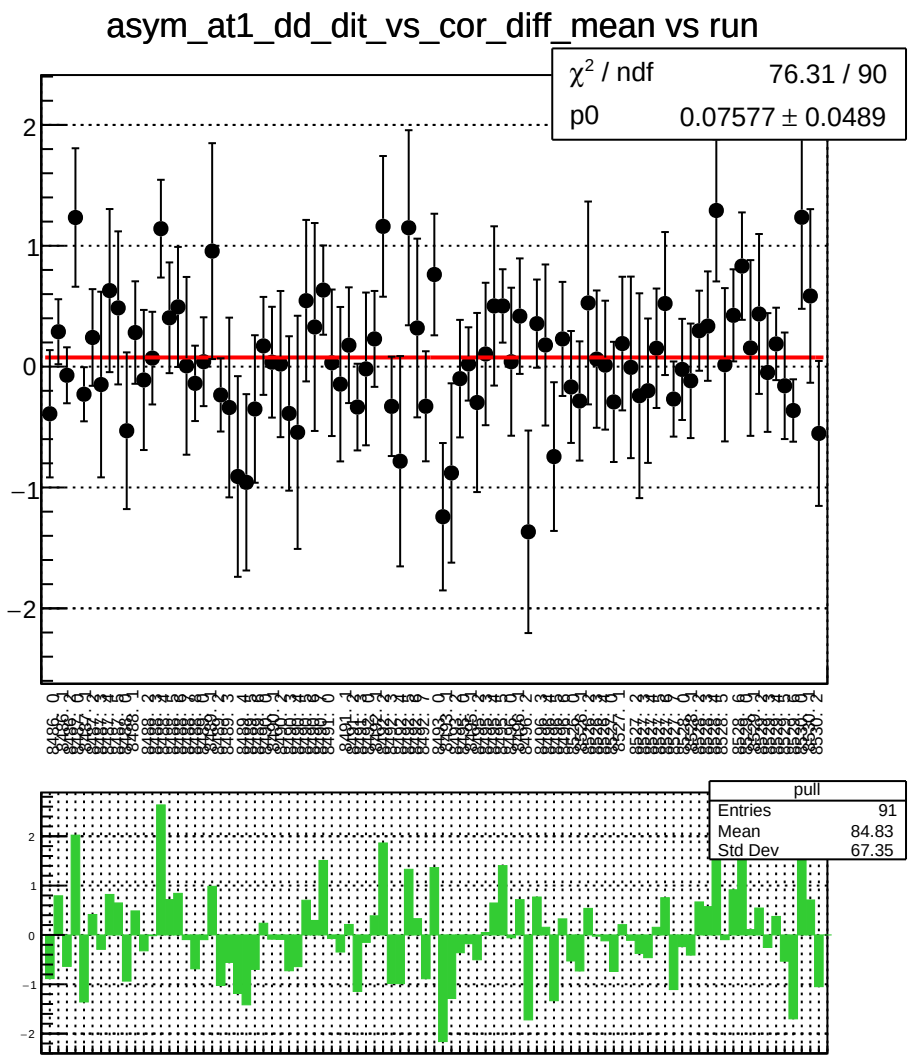

asym_at1_dd_mean vs run
χ² / ndf 73.66 / 90
p0 −4043 ± 2064
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −360.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

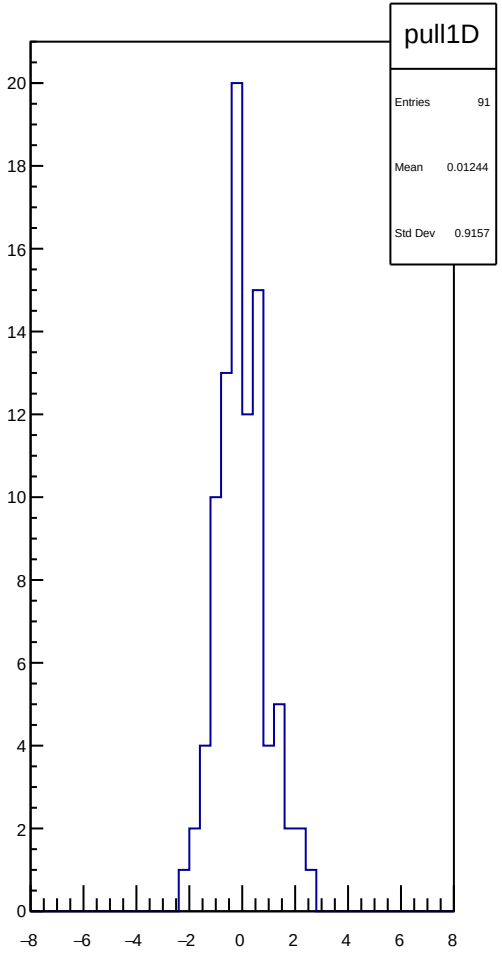

pull1D
Entries 91
Mean −0.007498
Std Dev 0.8997
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

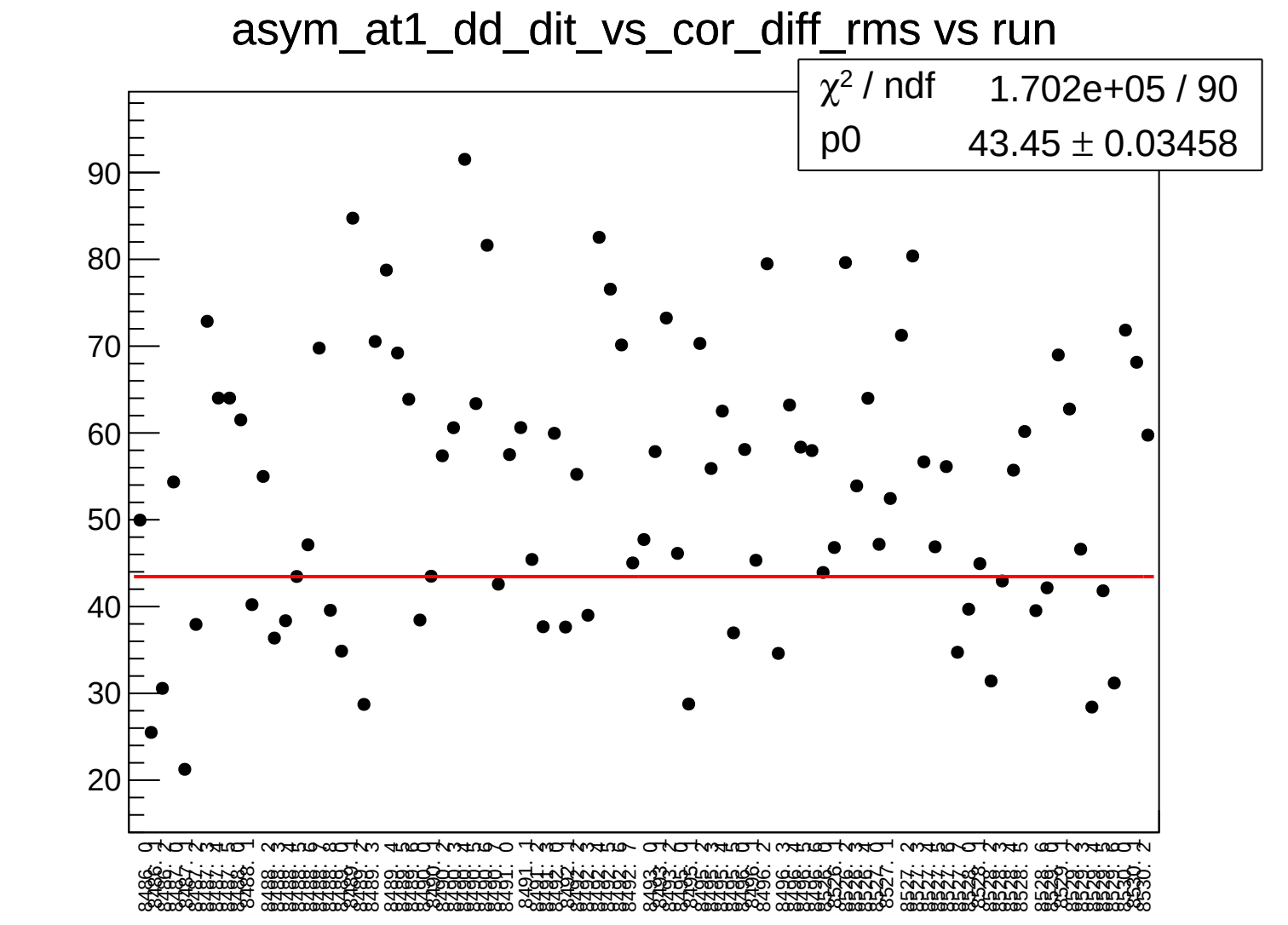

asym_at1_dd_rms vs run
χ^2 / ndf 198.8 / 90
p0 1930 ± 1.459
1980
1960
1940
1920
1900
1880

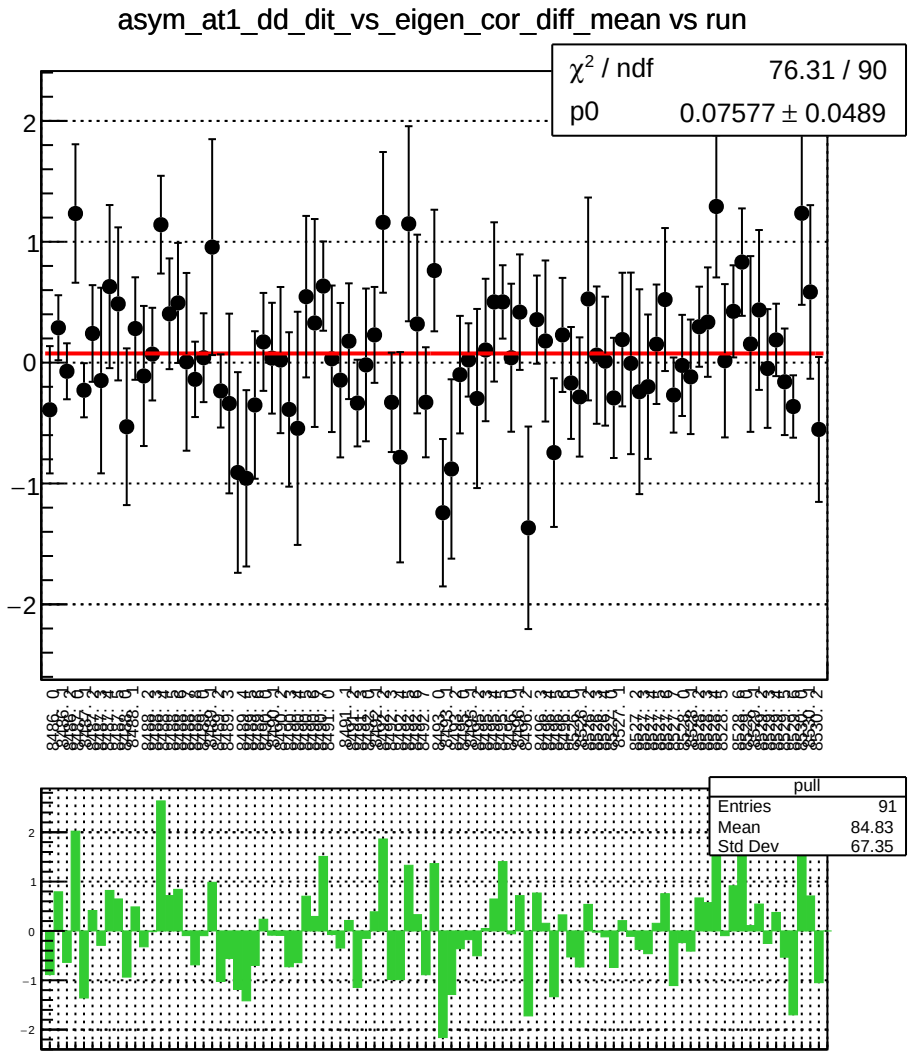

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 84.48 / 90
p0 6.314e−14 ± 1.15e−13
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 91
Mean 59.66
Std Dev 25.96
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.118
Std Dev 0.9563
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

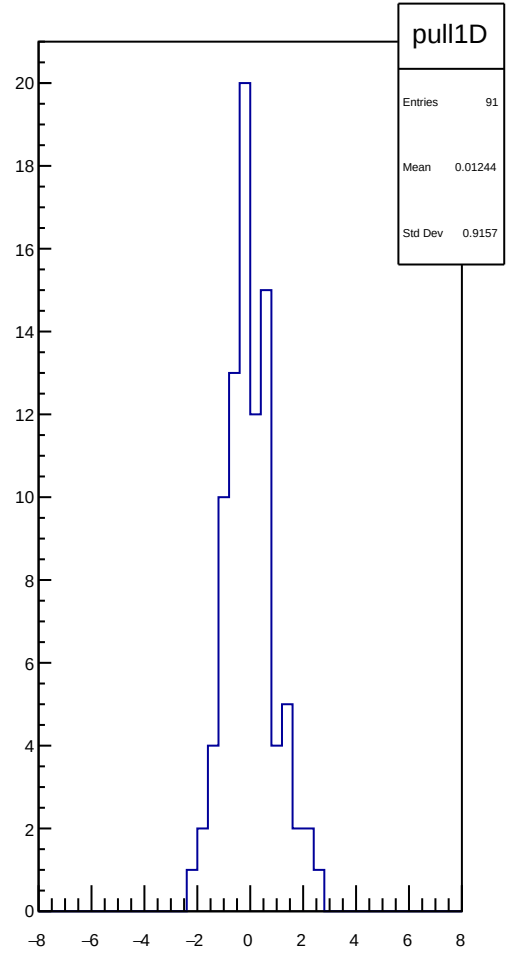

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.977e+05 / 90
p0 7.048e−11 ± 8.13e−14
1.2
1
0.8
0.6
0.4
0.2
0

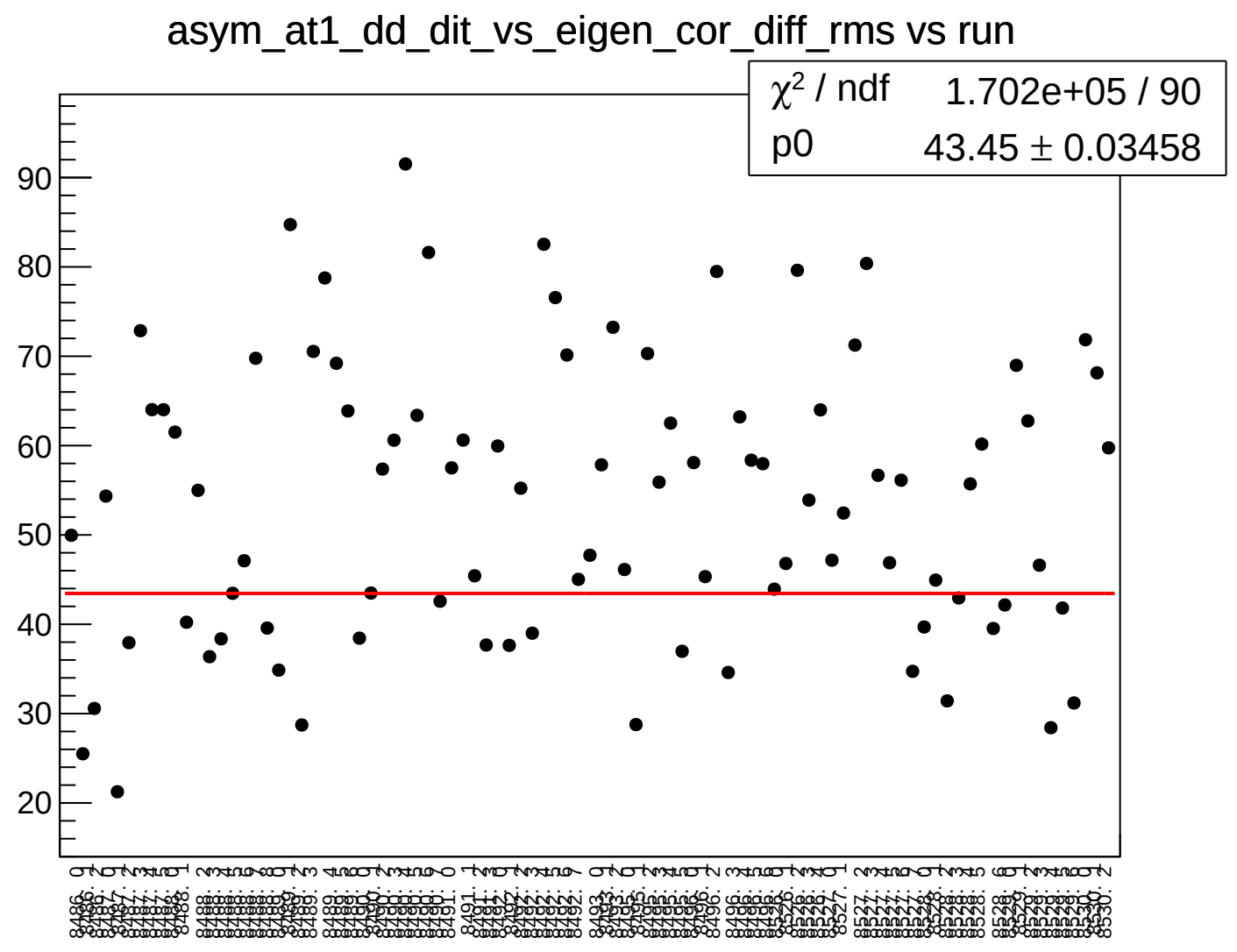

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 76.31 / 90
p0 0.07577 ± 0.0489
pull
Entries 91
Mean 84.83
Std Dev 67.35

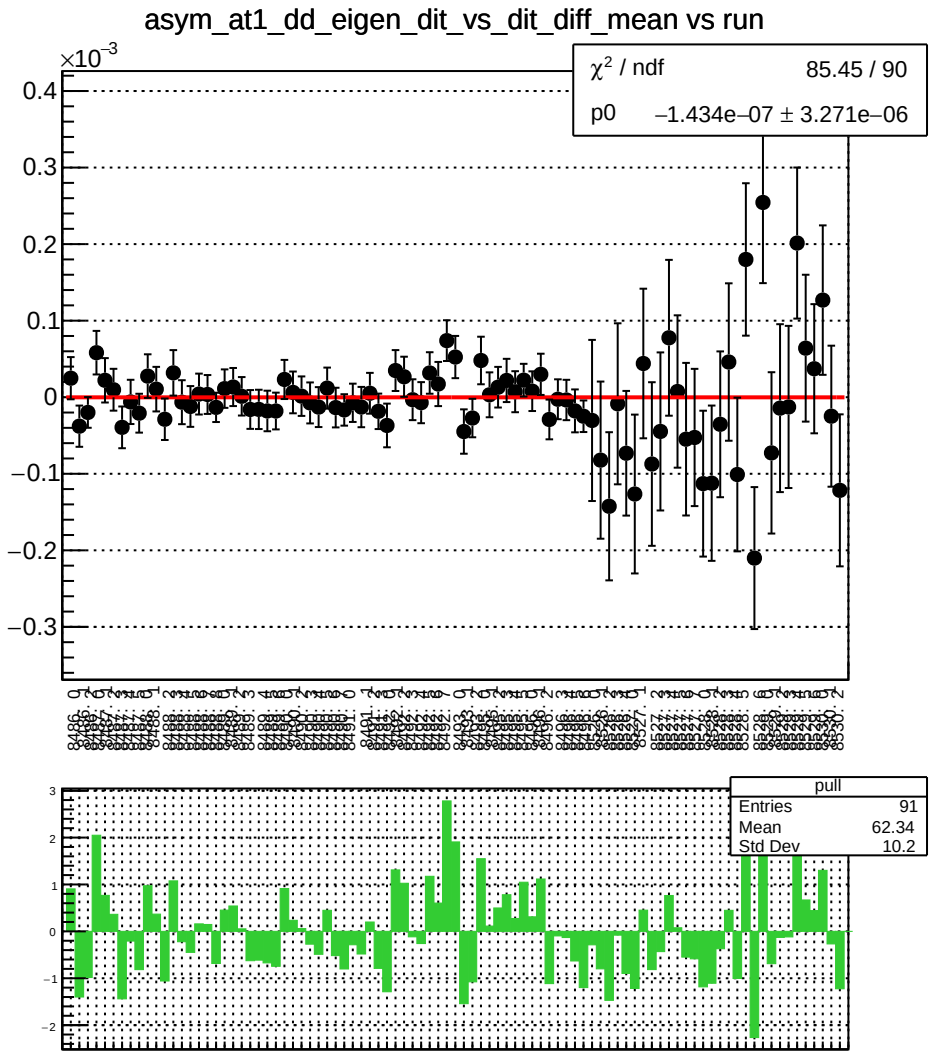

pull1D
Entries 91
Mean 0.01244
Std Dev 0.9157

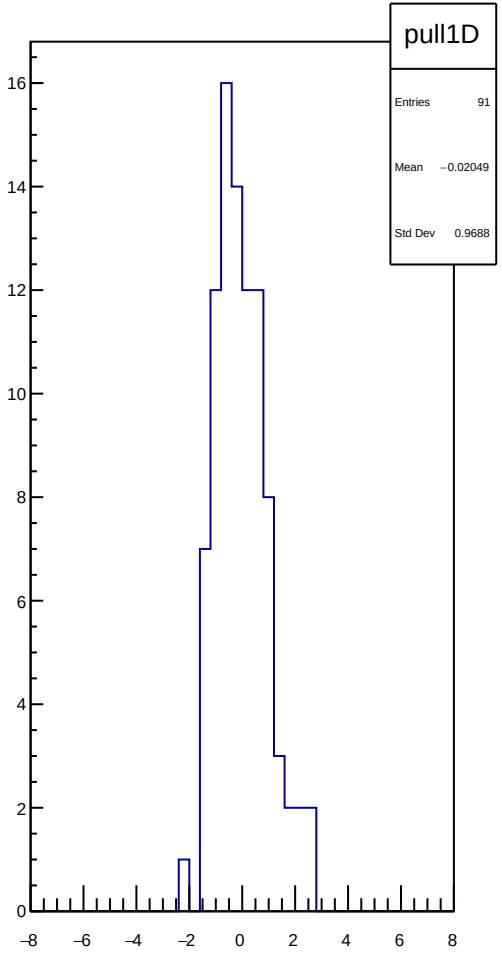

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.702e+05 / 90
p0 43.45 ± 0.03458
90
80
70
60
50
40
30
20

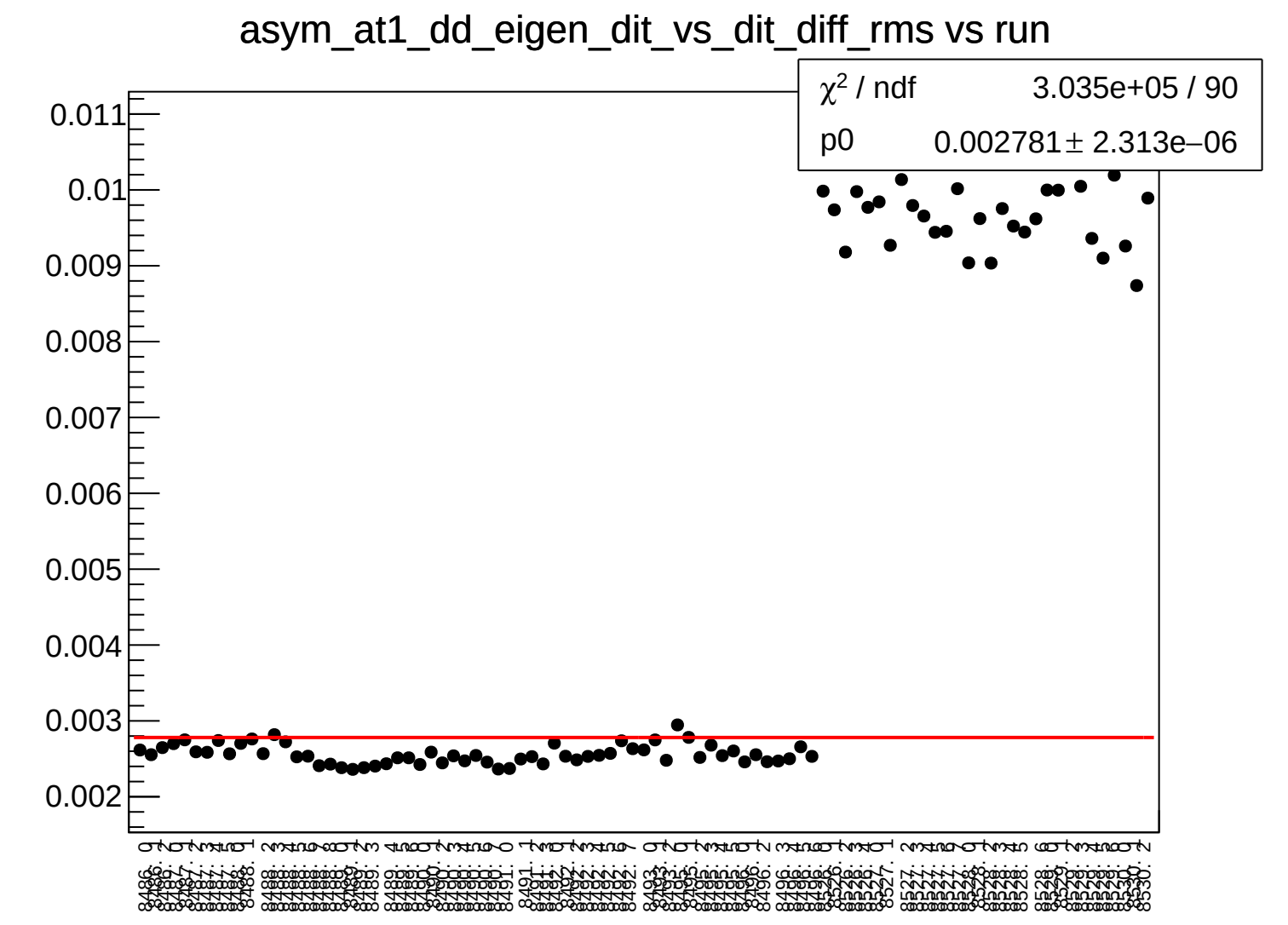

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.31 / 90
p0 0.07577 ± 0.0489
pull
Entries 91
Mean 84.83
Std Dev 67.35

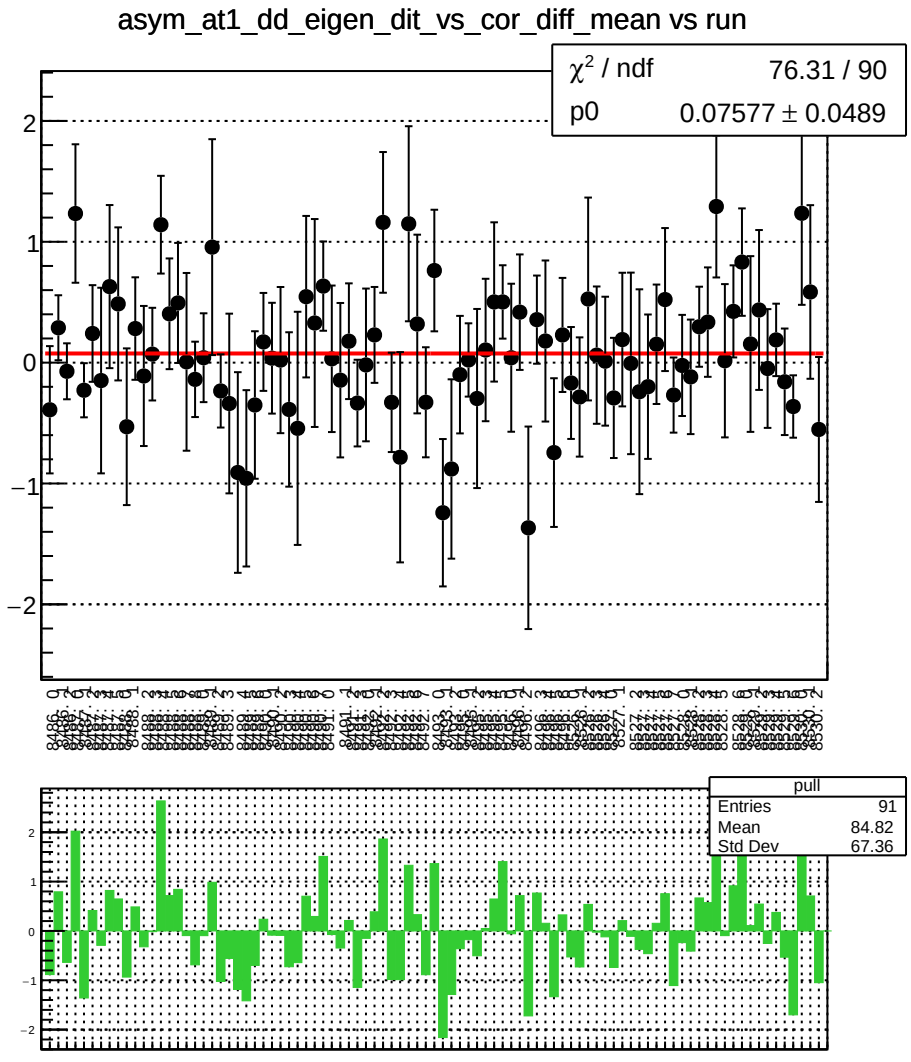

pull1D
Entries 91
Mean 0.01244
Std Dev 0.9157

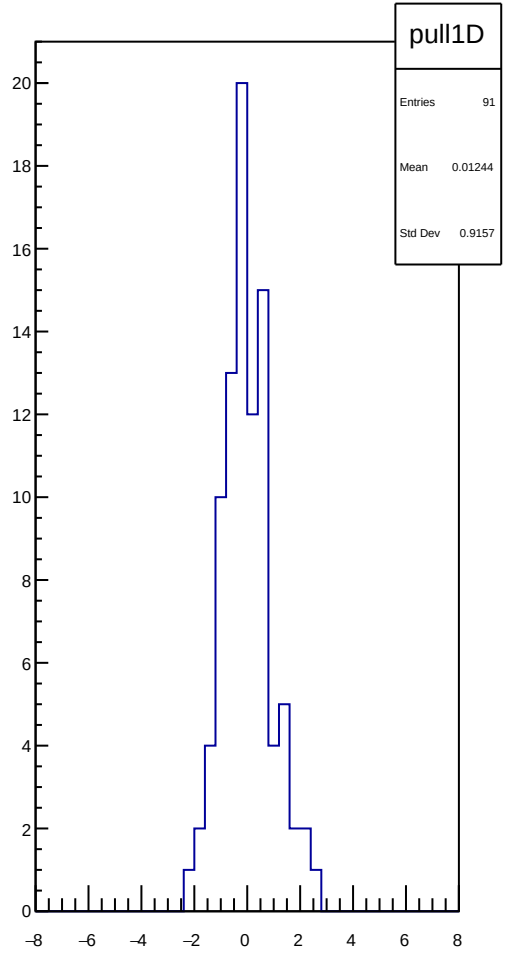

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.702e+05 / 90
p0 43.45 ± 0.03458
90
80
70
60
50
40
30
20

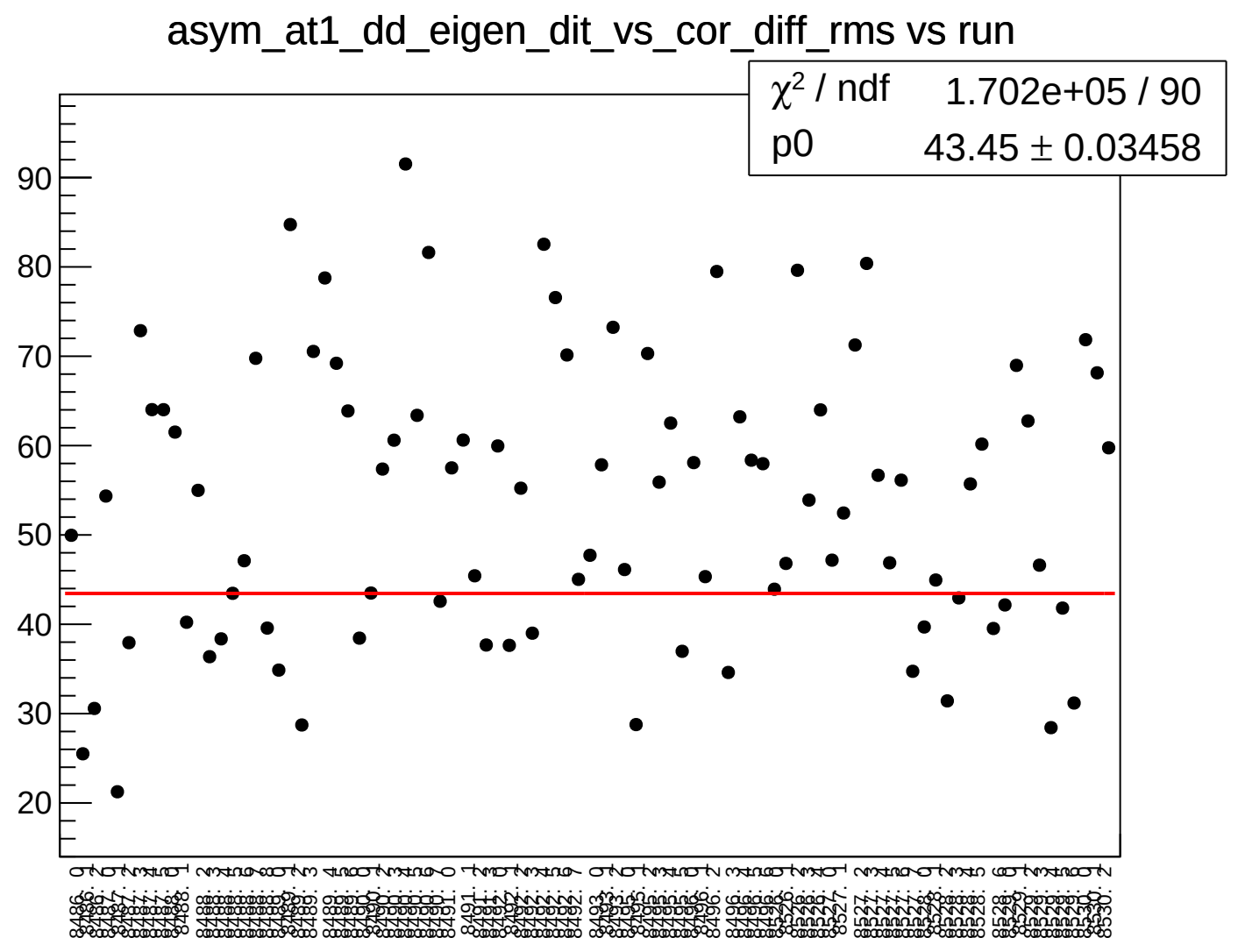

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.45 / 90
p0 −1.434e−07 ± 3.271e−06
pull
Entries 91
Mean 62.34
Std Dev 10.2

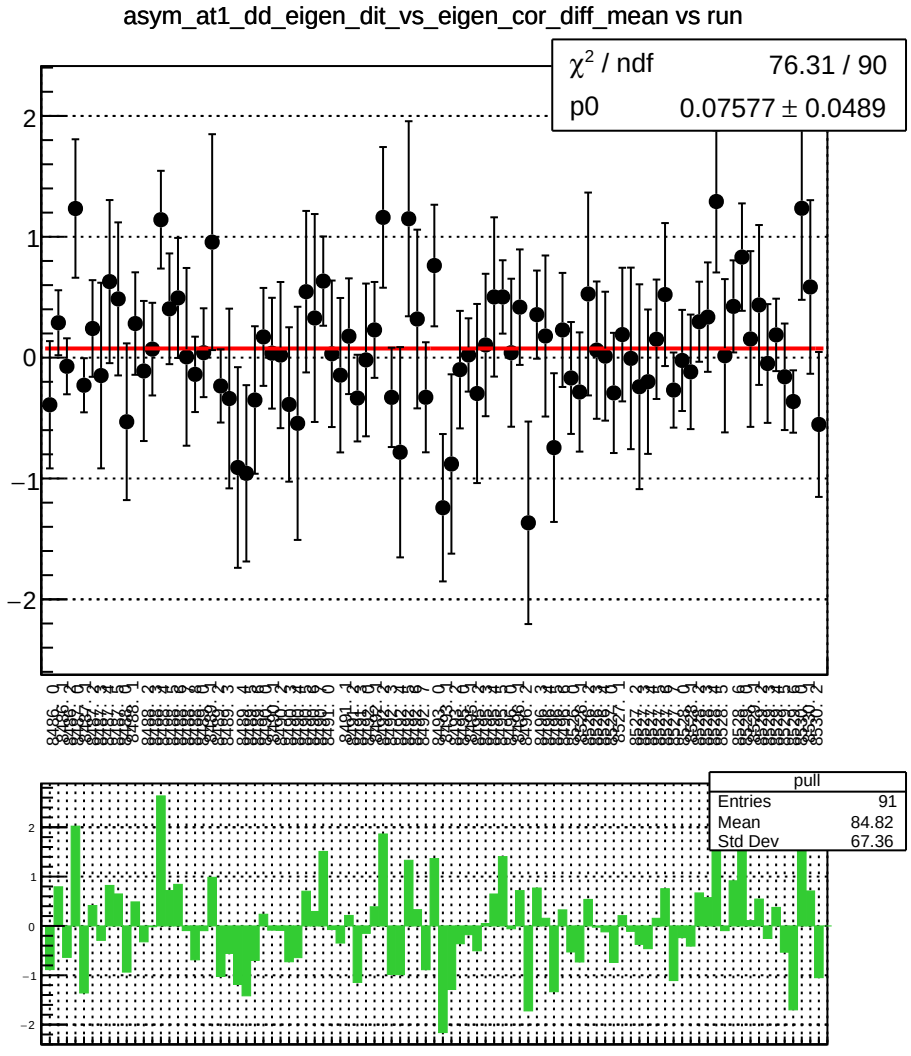

pull1D
Entries 91
Mean −0.02049
Std Dev 0.9688

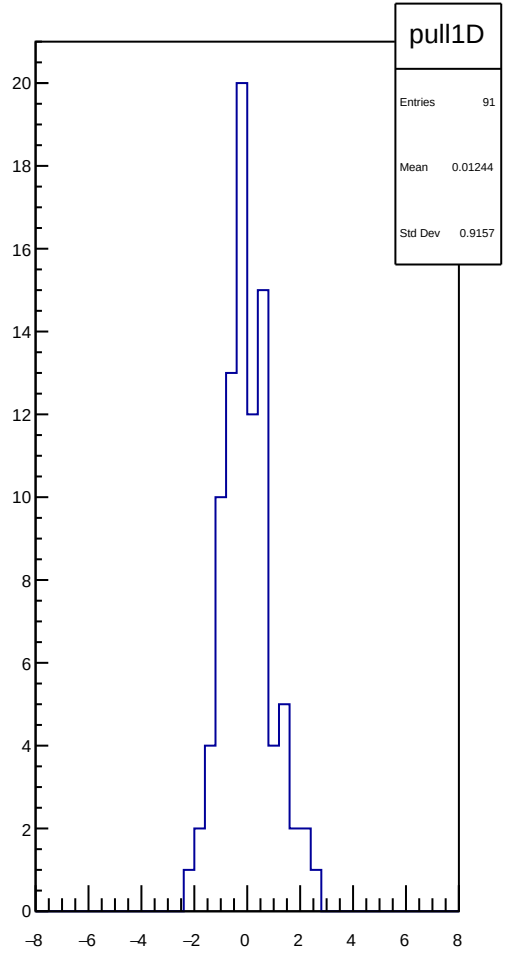

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.035e+05 / 90
p0 0.002781 ± 2.313e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

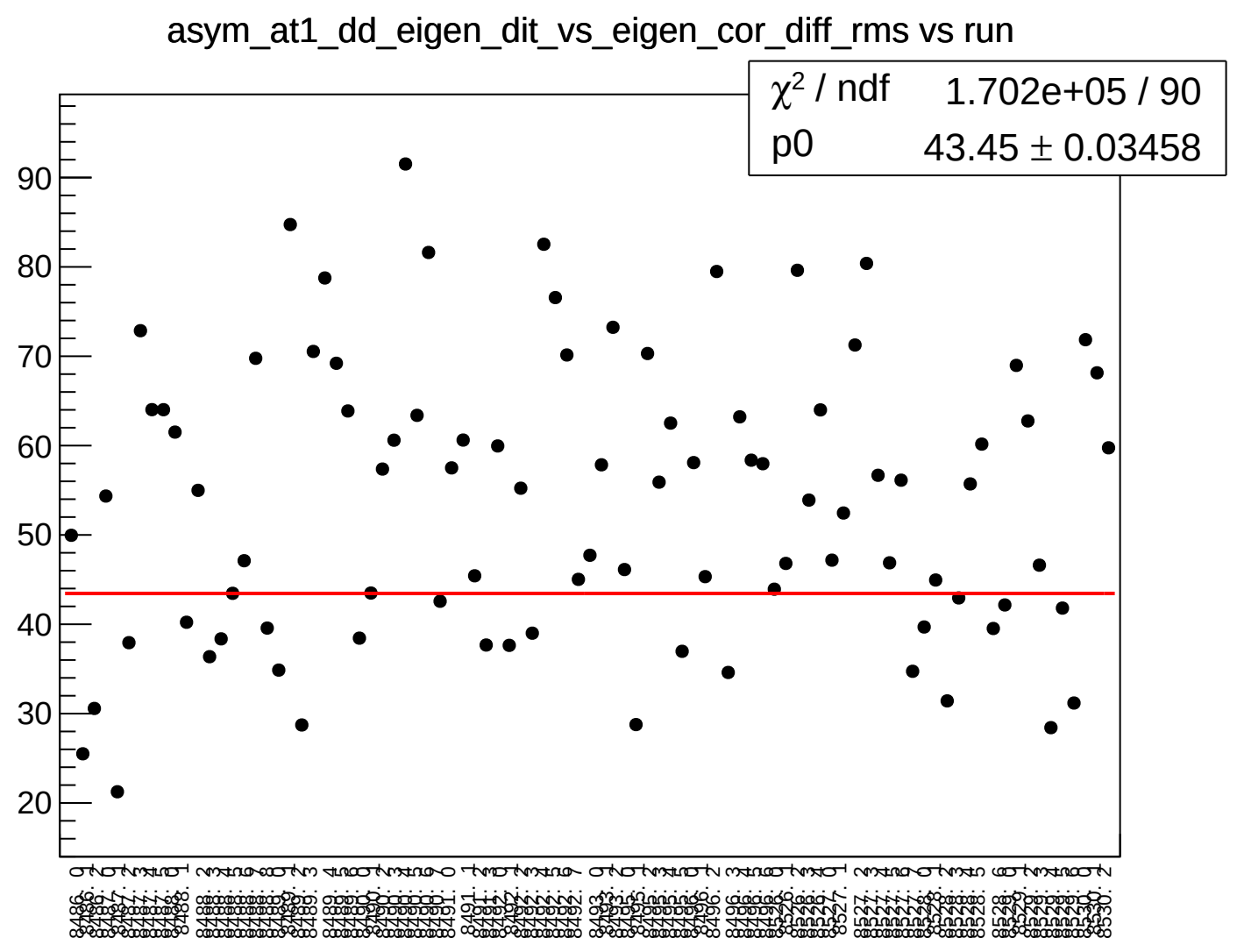

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.31 / 90
p0 0.07577 ± 0.0489
pull
Entries 91
Mean 84.82
Std Dev 67.36

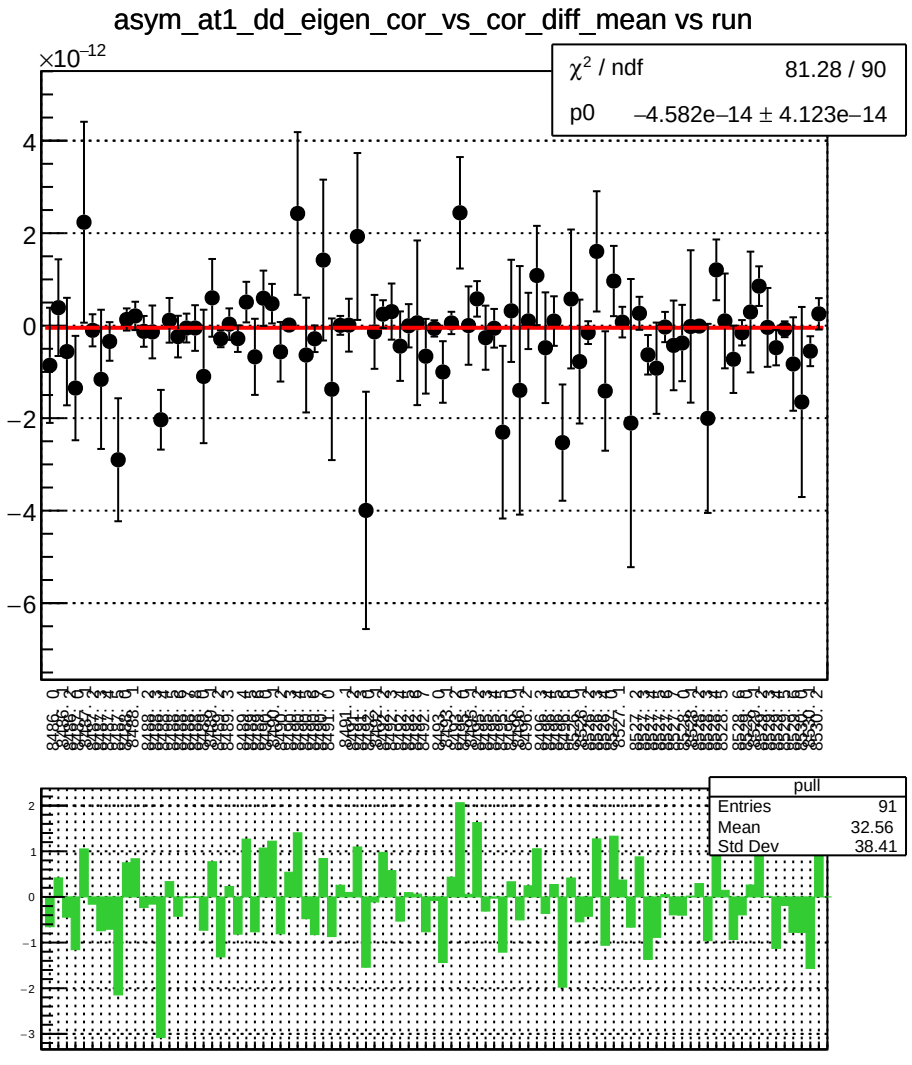

pull1D
Entries 91
Mean 0.01244
Std Dev 0.9157

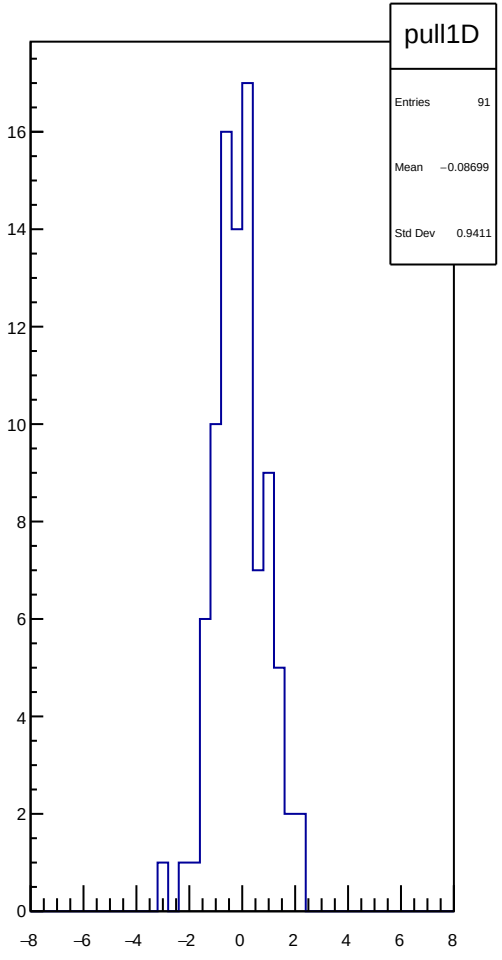

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.702e+05 / 90
p0 43.45 ± 0.03458
90
80
70
60
50
40
30
20

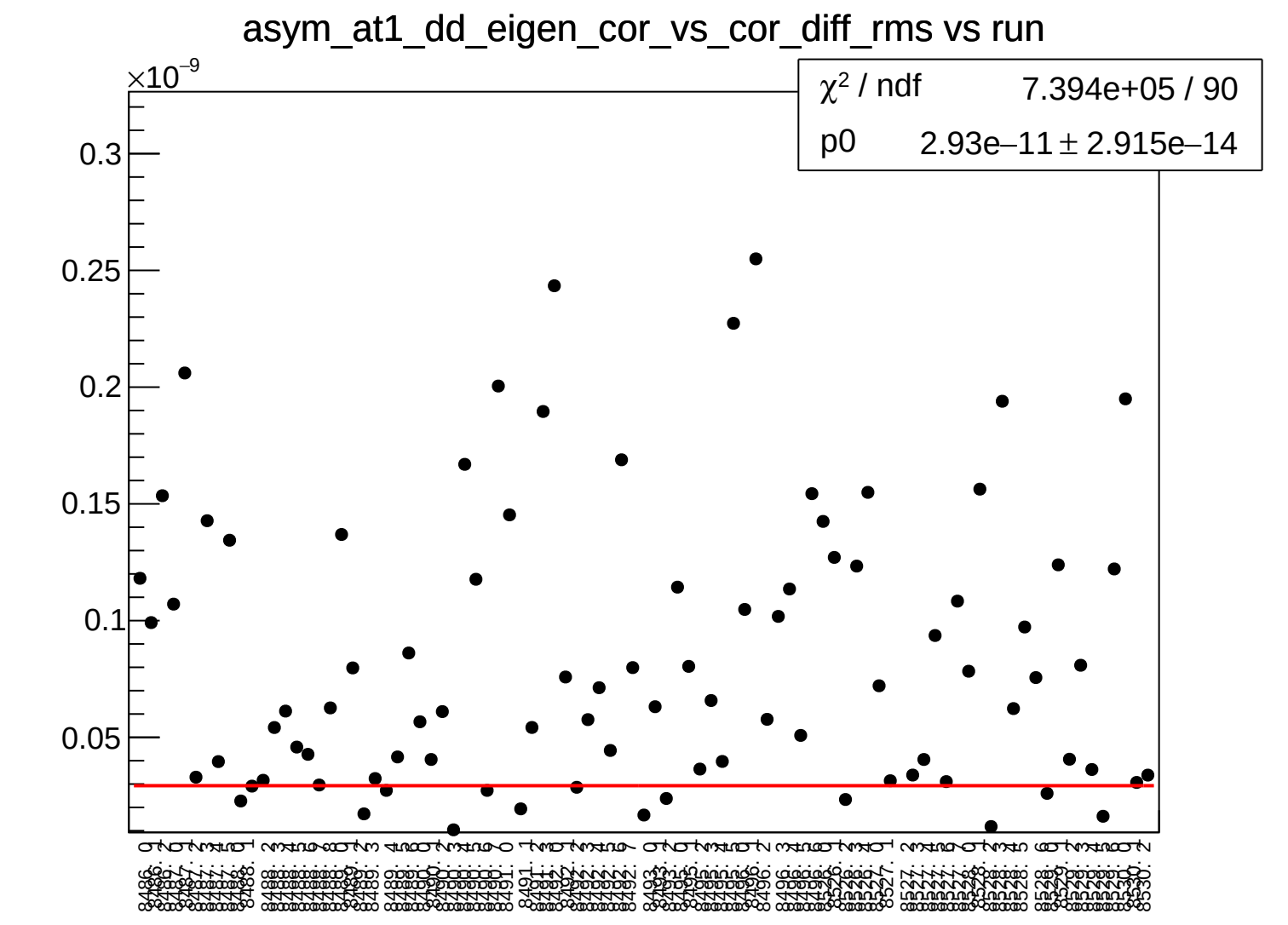

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.31 / 90
p0 0.07577 ± 0.0489
pull
Entries 91
Mean 84.82
Std Dev 67.36

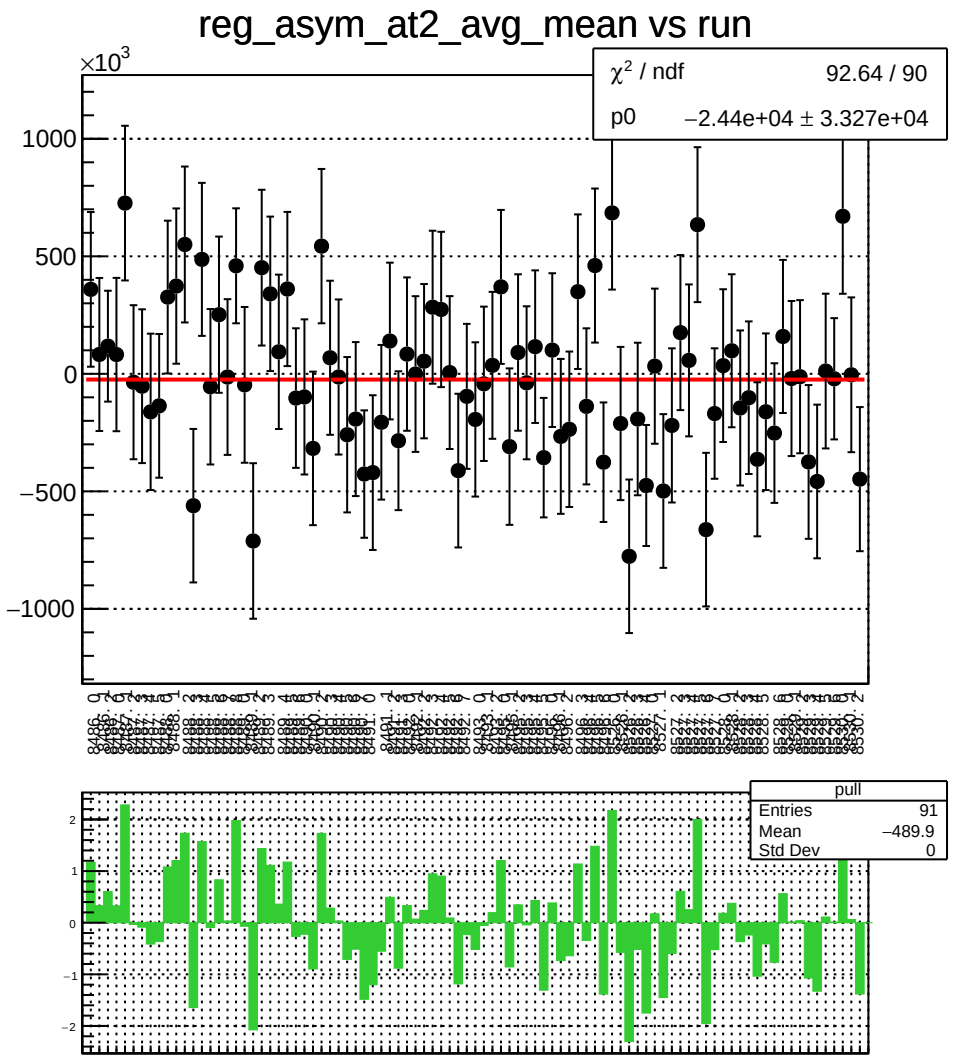

pull1D
Entries 91
Mean 0.01244
Std Dev 0.9157

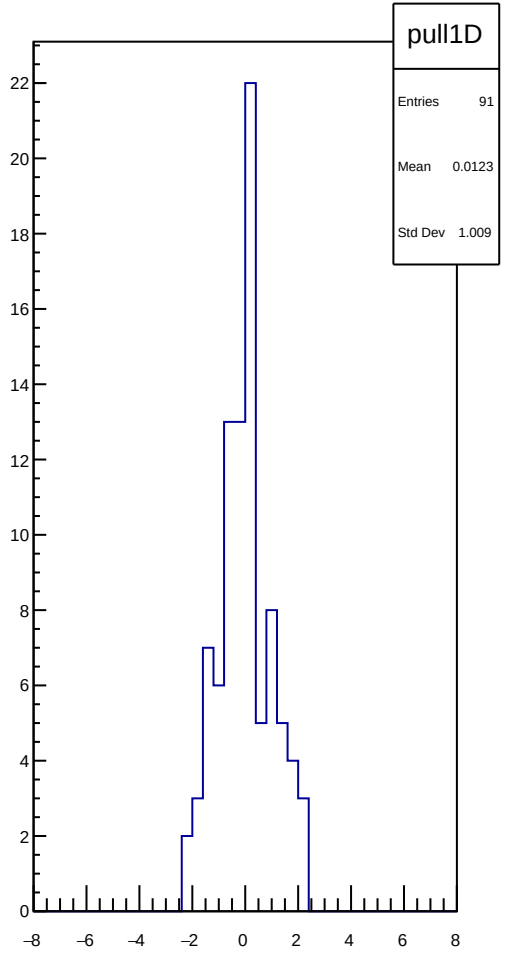

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.702e+05 / 90
p0 43.45 ± 0.03458
90
80
70
60
50
40
30
20

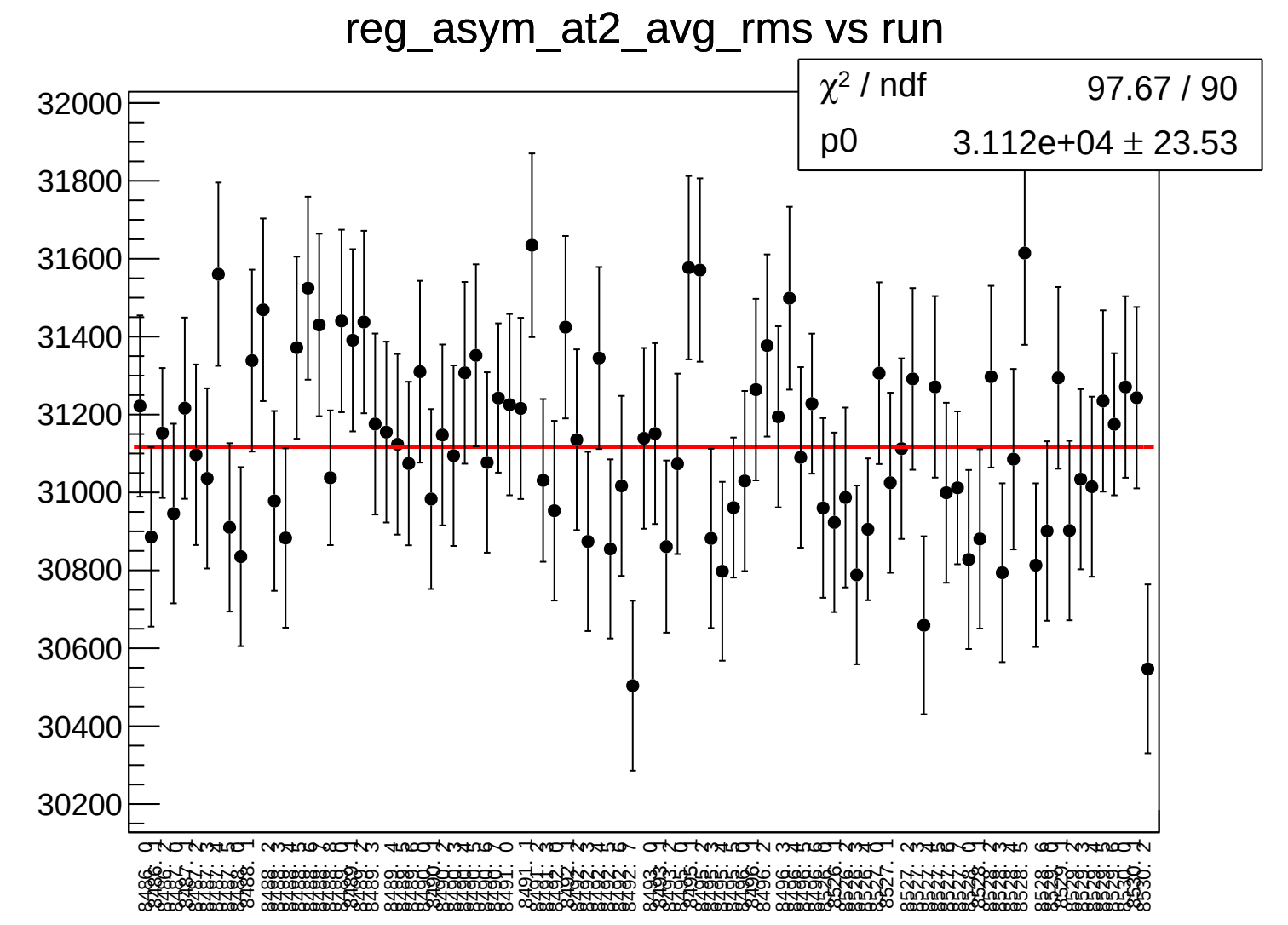

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.28 / 90
p0 −4.582e−14 ± 4.123e−14
pull
Entries 91
Mean 32.56
Std Dev 38.41

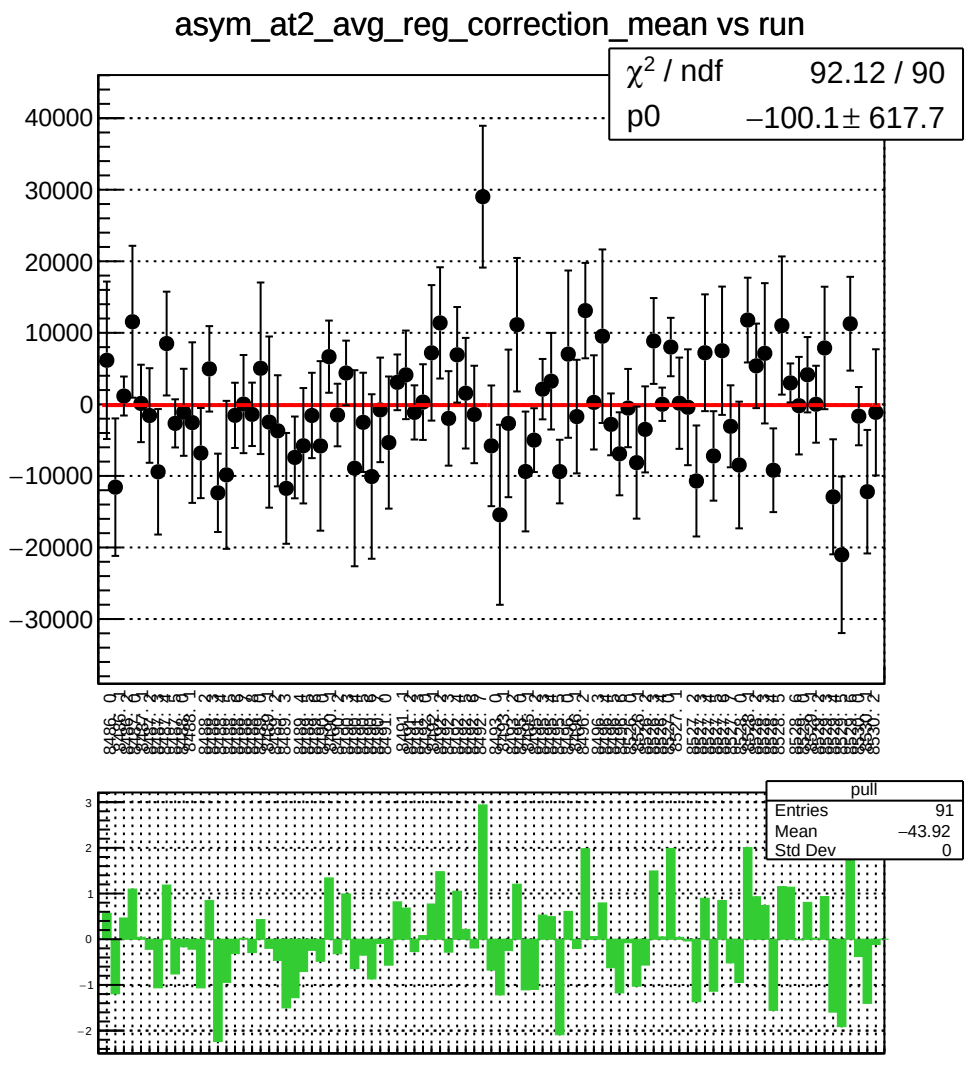

pull1D
Entries 91
Mean −0.08699
Std Dev 0.9411

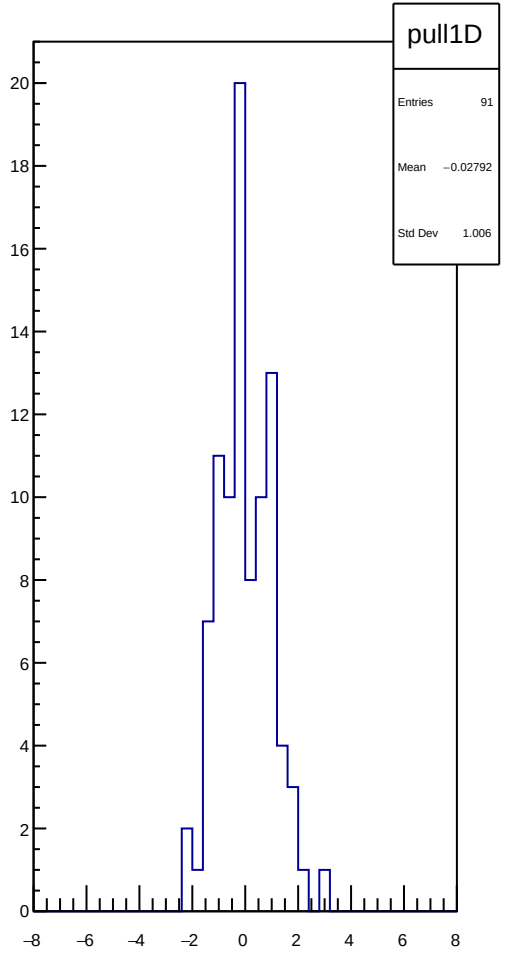

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.394e+05 / 90
p0 2.93e−11 ± 2.915e−14
0.3
0.25
0.2
0.15
0.1
0.05

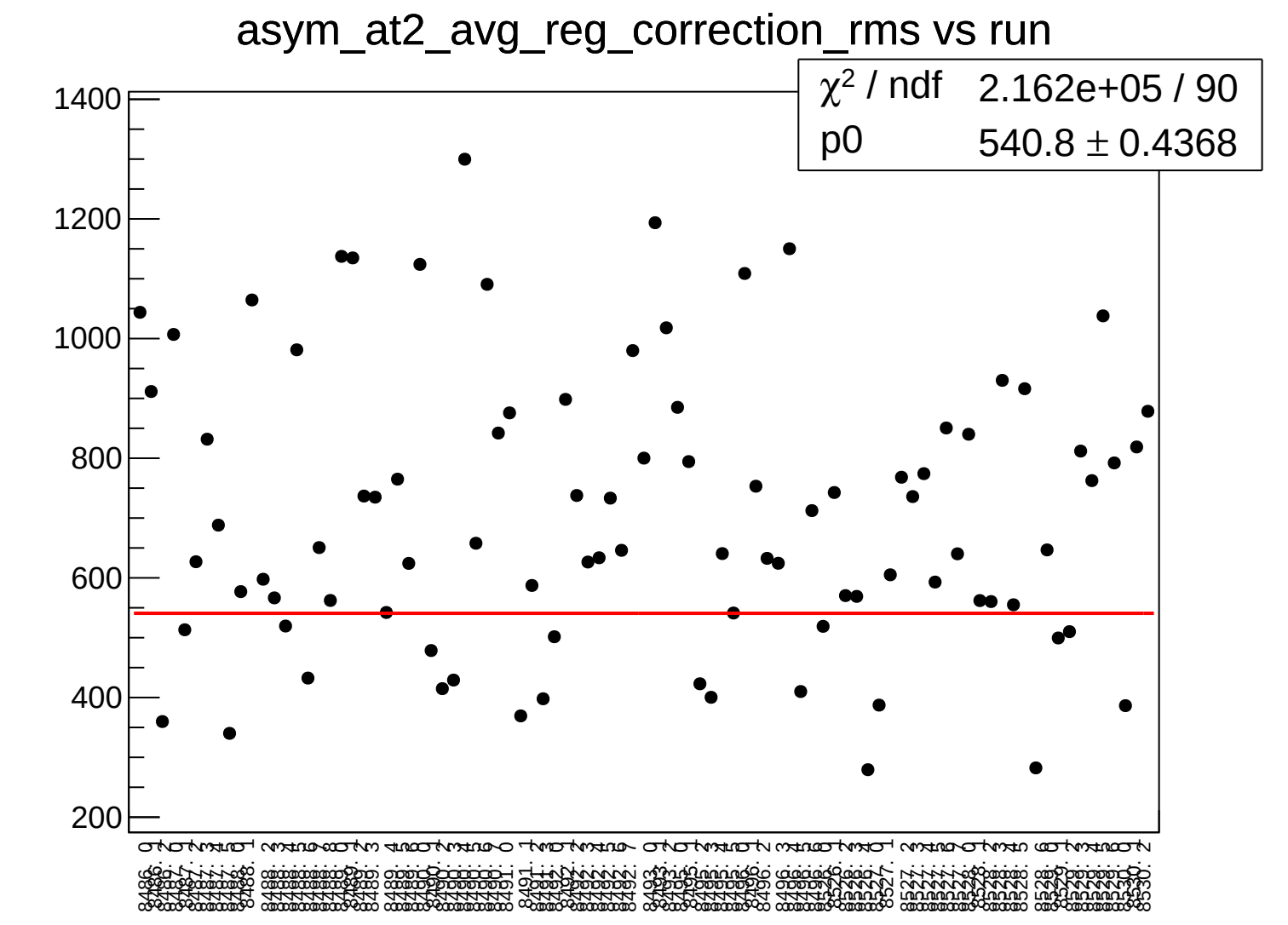

reg_asym_at2_avg_mean vs run
×10^3
χ² / ndf 92.64 / 90
p0 −2.44e+04 ± 3.327e+04
1000
500
0
−500
−1000
pull
Entries 91
Mean −489.9
Std Dev 0
2
1
0
−1
−2

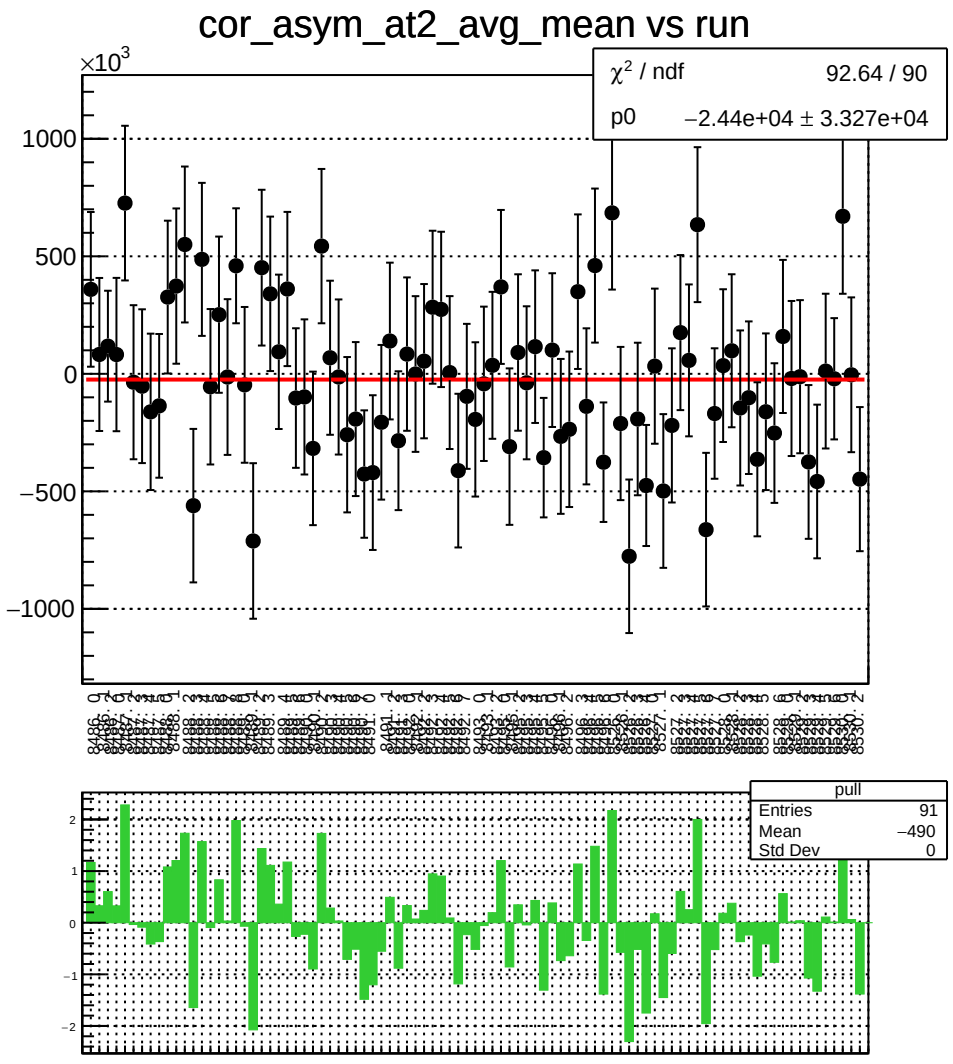

pull1D
Entries 91
Mean 0.0123
Std Dev 1.009
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

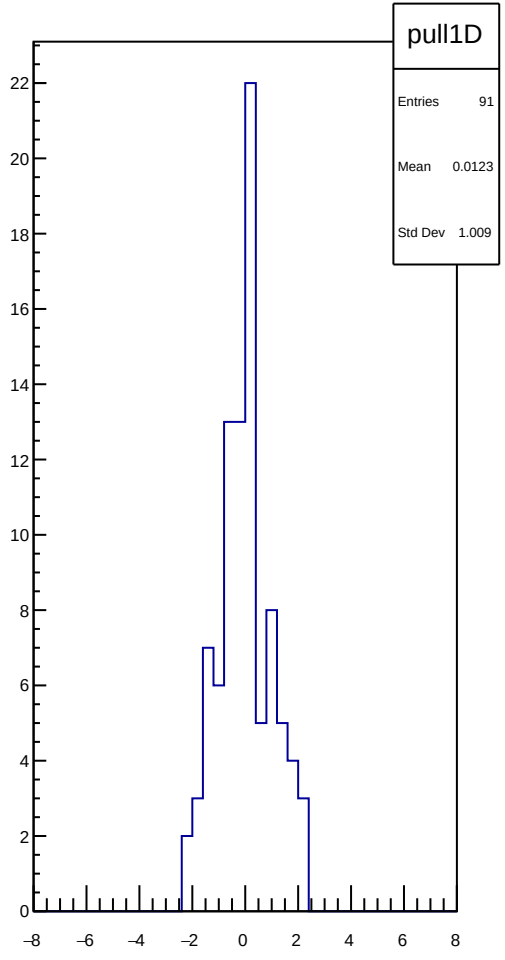

reg_asym_at2_avg_rms vs run
χ² / ndf 97.67 / 90
p0 3.112e+04 ± 23.53
32000
31800
31600
31400
31200
31000
30800
30600
30400
30200

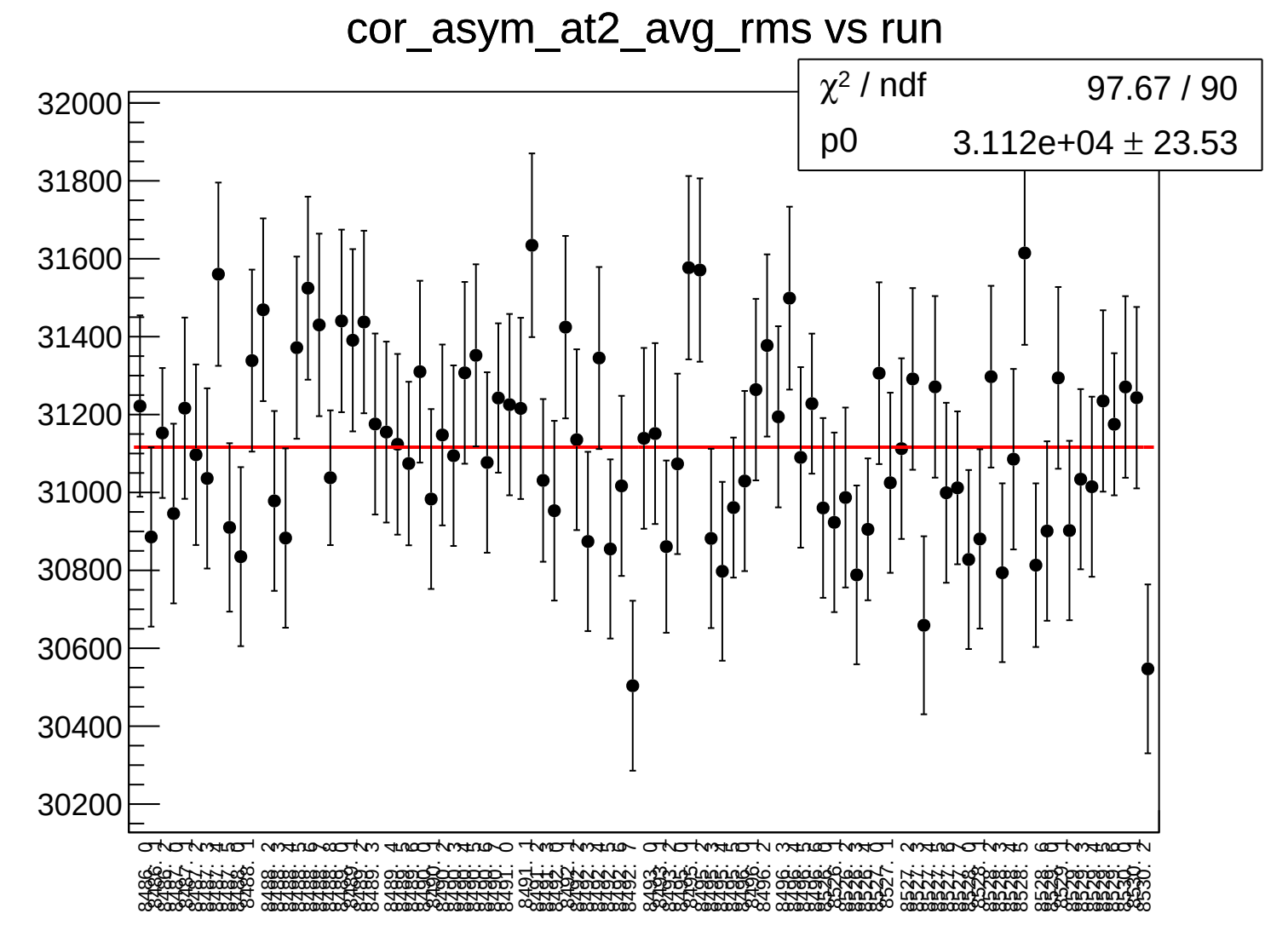

asym_at2_avg_reg_correction_mean vs run
χ² / ndf 92.12 / 90
p0 −100.1 ± 617.7
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −43.92
Std Dev 0
3
2
1
0
−1
−2

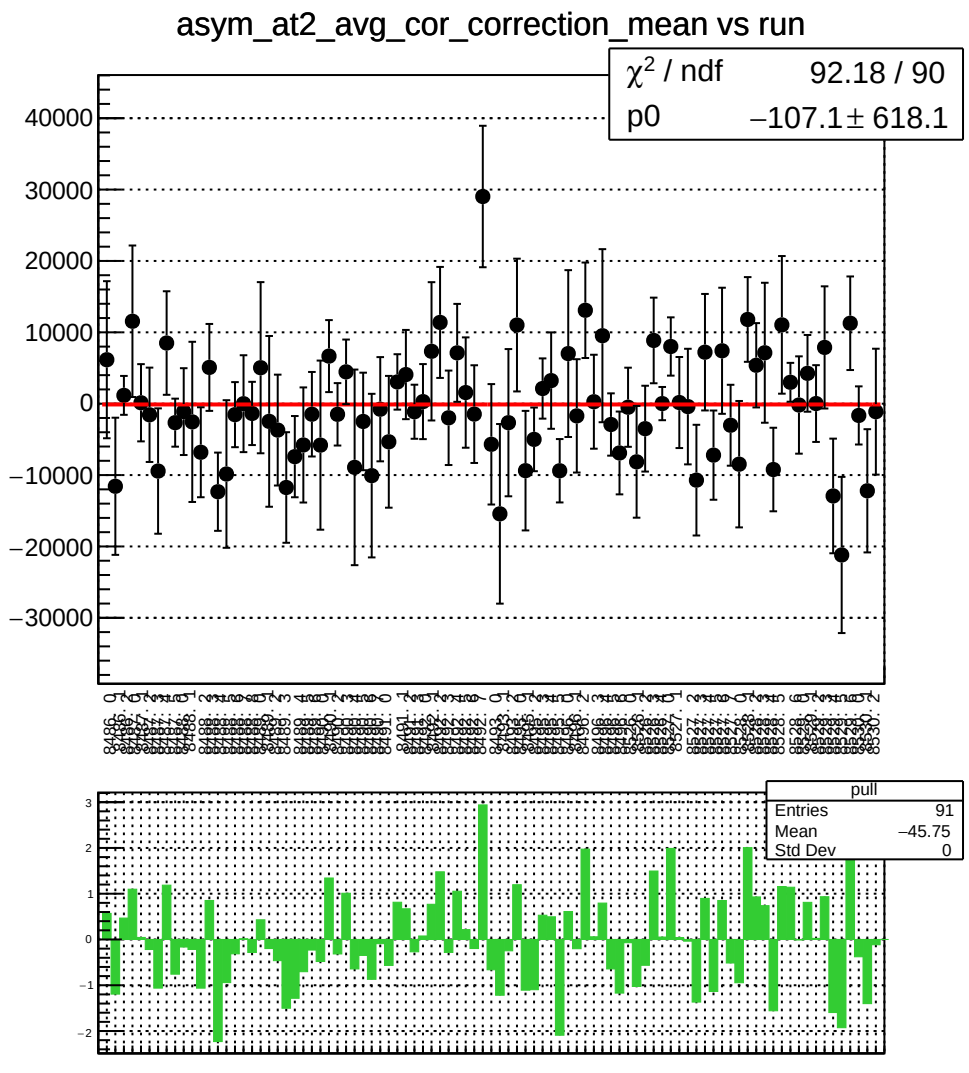

pull1D
Entries 91
Mean −0.02792
Std Dev 1.006
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

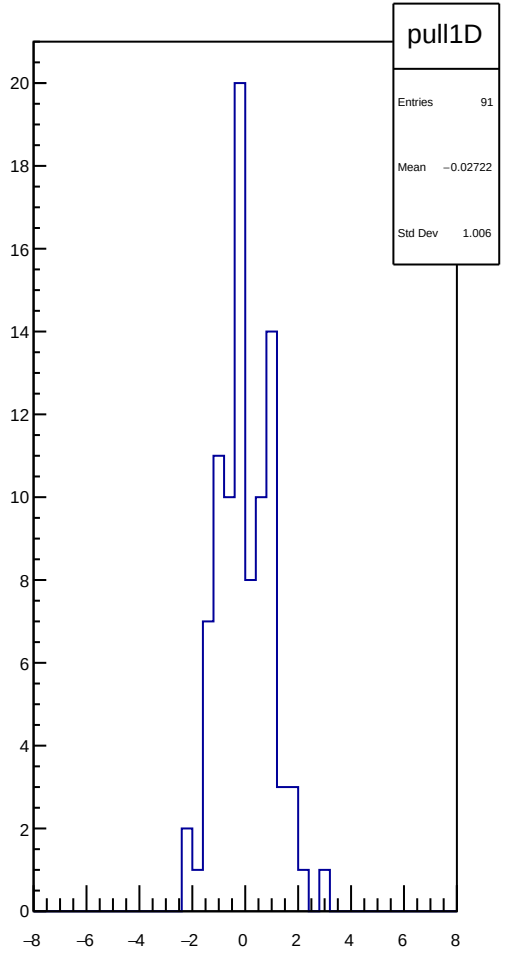

asym_at2_avg_reg_correction_rms vs run
χ² / ndf 2.162e+05 / 90
p0 540.8 ± 0.4368
1400
1200
1000
800
600
400
200

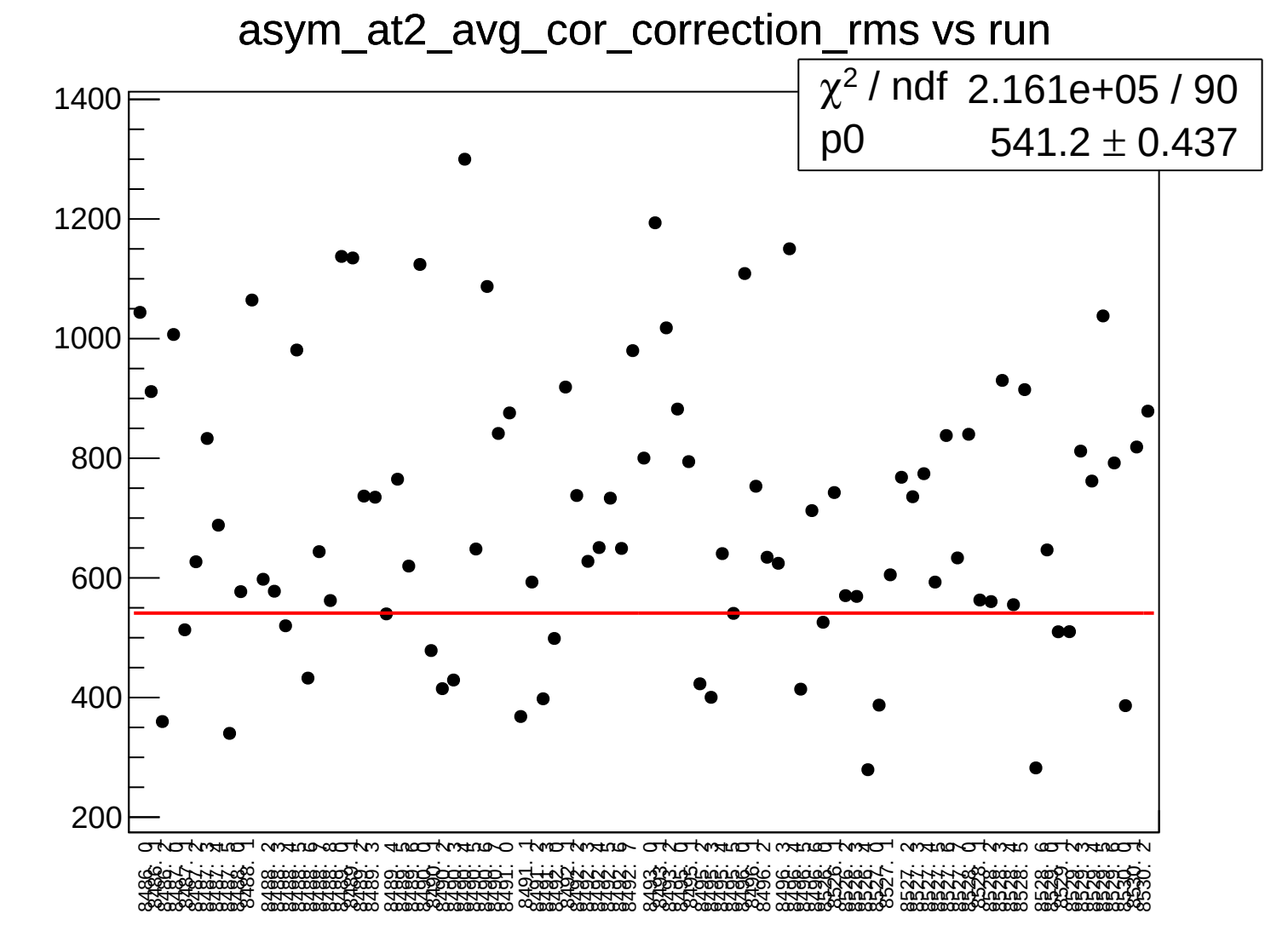

cor_asym_at2_avg_mean vs run
×10^3
χ² / ndf 92.64 / 90
p0 −2.44e+04 ± 3.327e+04
1000
500
0
−500
−1000
pull
Entries 91
Mean −490
Std Dev 0
2
1
0
−1
−2

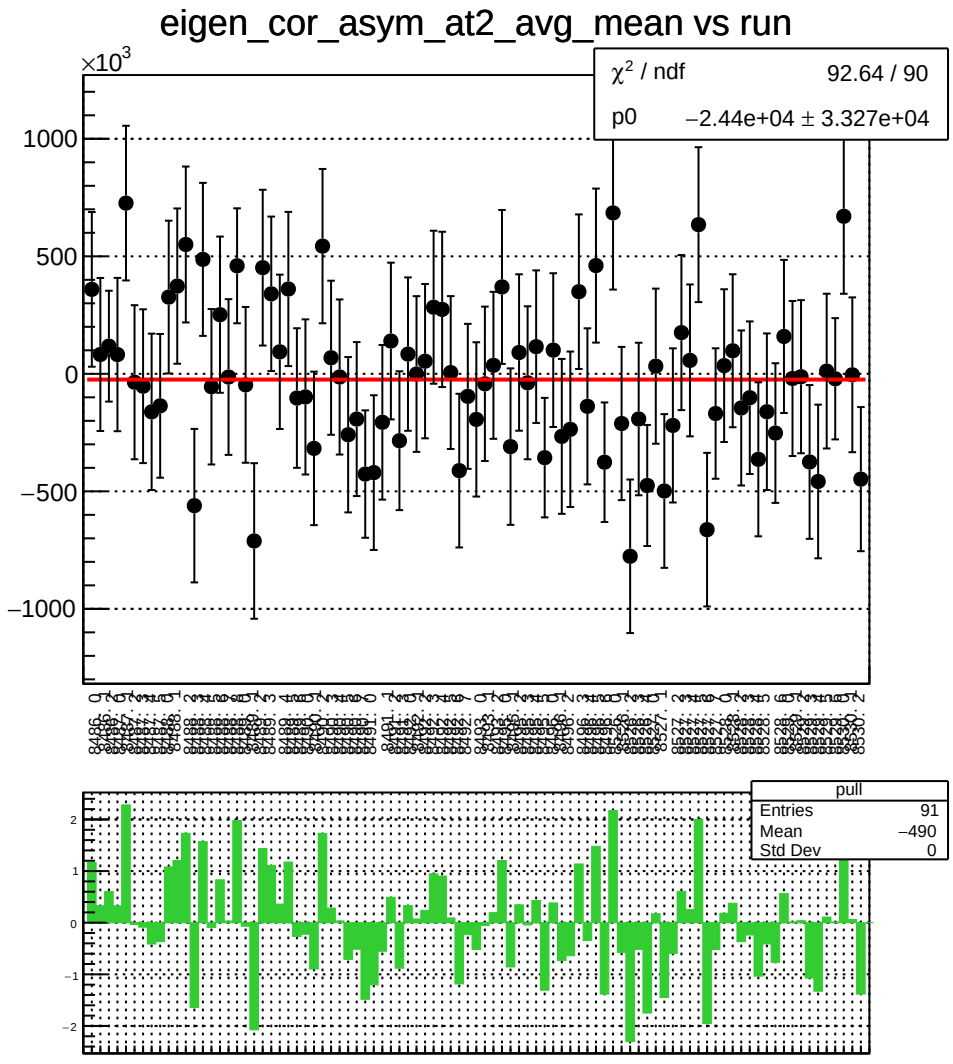

pull1D
Entries 91
Mean 0.0123
Std Dev 1.009
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

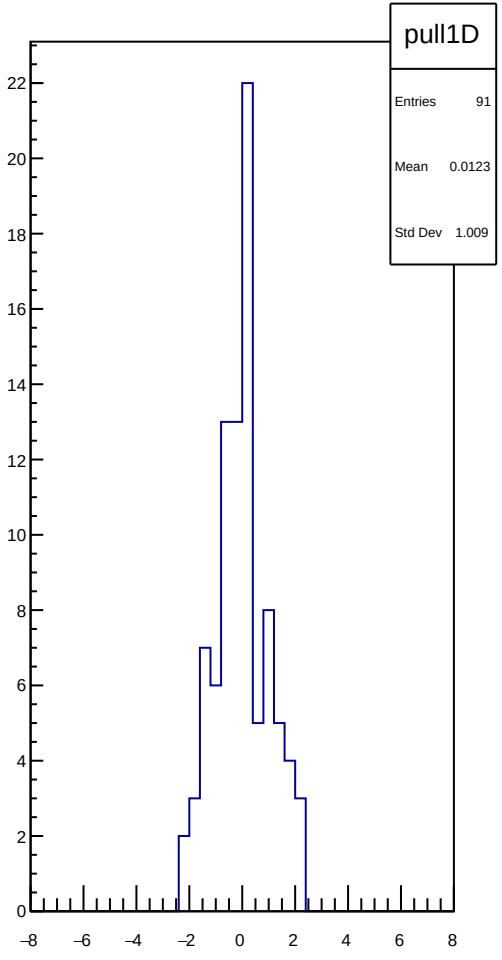

cor_asym_at2_avg_rms vs run
χ² / ndf 97.67 / 90
p0 3.112e+04 ± 23.53
32000
31800
31600
31400
31200
31000
30800
30600
30400
30200

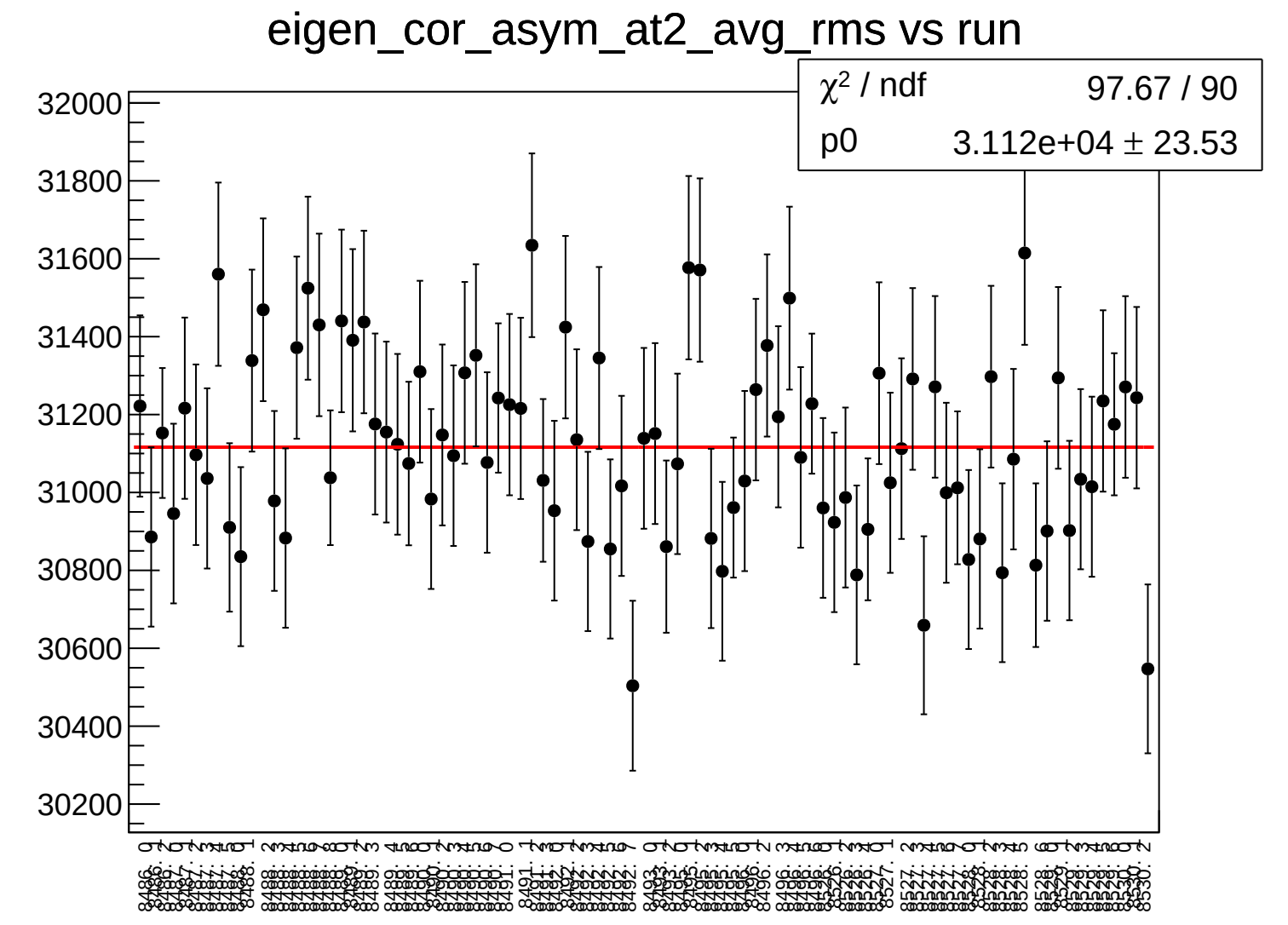

asym_at2_avg_cor_correction_mean vs run
χ² / ndf 92.18 / 90
p0 −107.1 ± 618.1
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −45.75
Std Dev 0
3
2
1
0
−1
−2

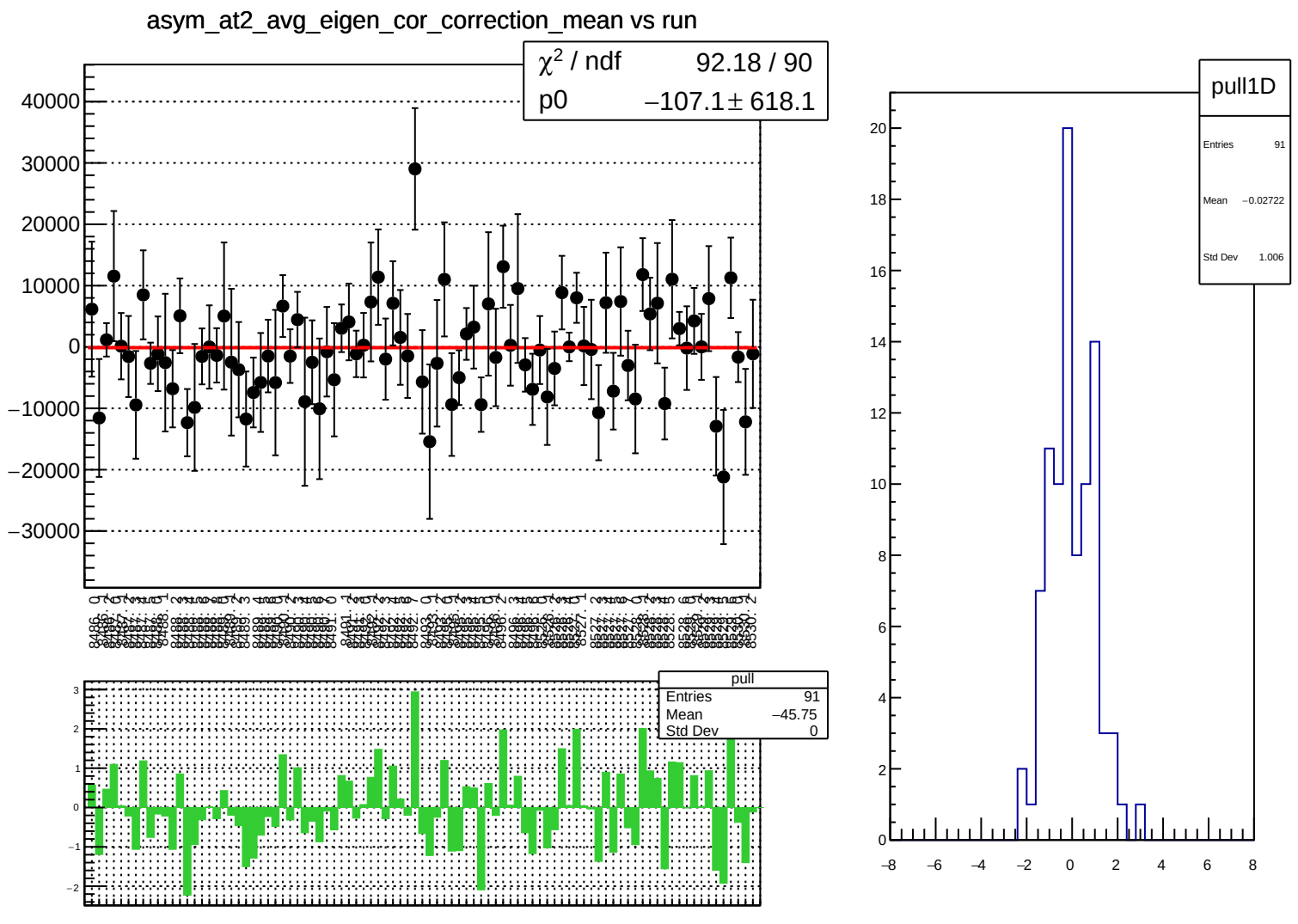

pull1D
Entries 91
Mean −0.02722
Std Dev 1.006
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

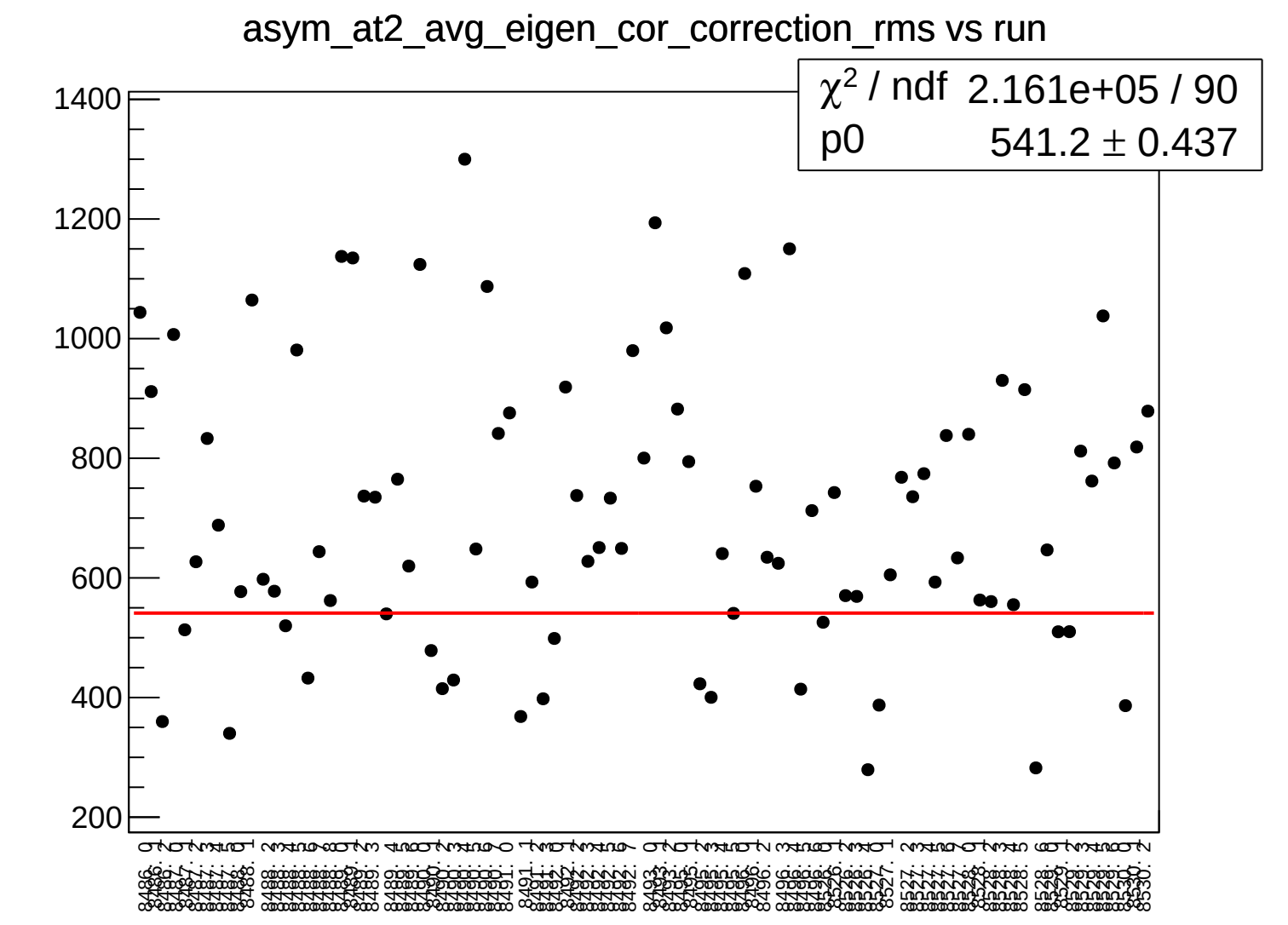

asym_at2_avg_cor_correction_rms vs run
χ² / ndf 2.161e+05 / 90
p0 541.2 ± 0.437
1400
1200
1000
800
600
400
200

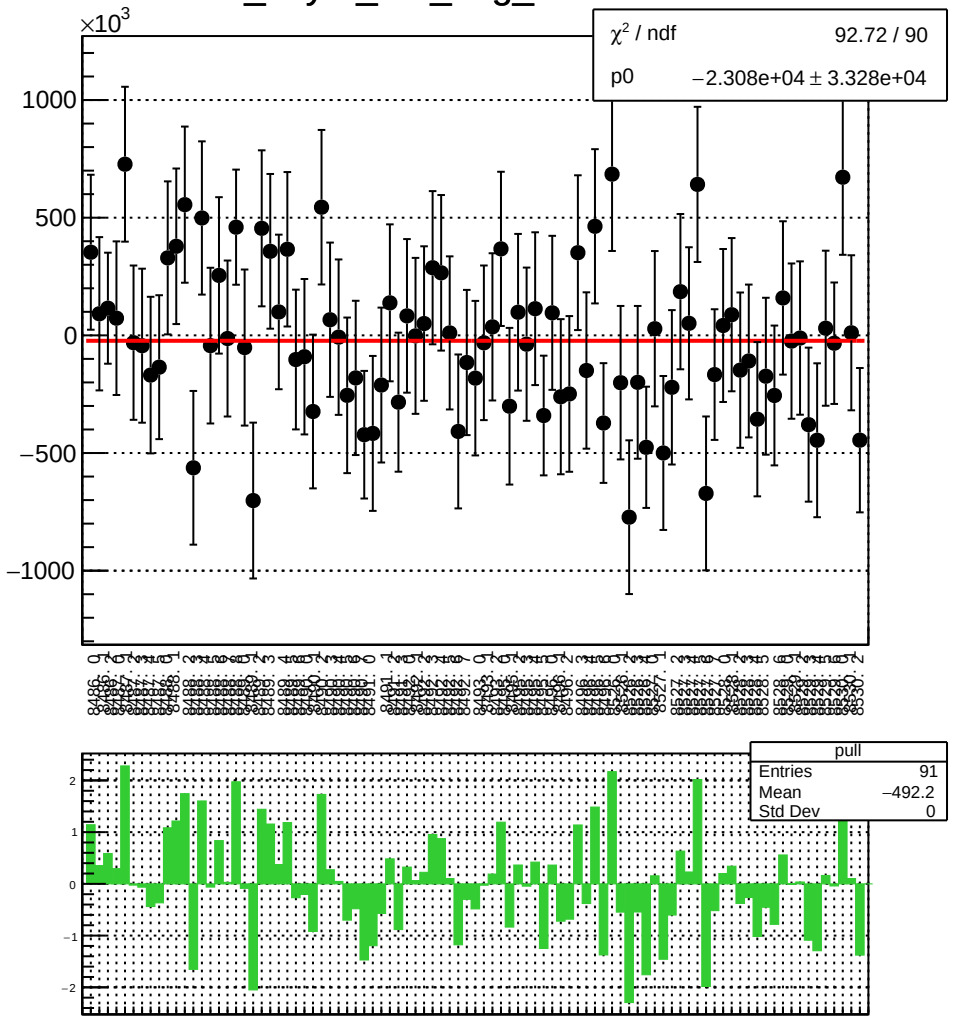

eigen_cor_asym_at2_avg_mean vs run
×10^3
χ² / ndf 92.64 / 90
p0 −2.44e+04 ± 3.327e+04
1000
500
0
−500
−1000
pull
Entries 91
Mean −490
Std Dev 0
2
1
0
−1
−2

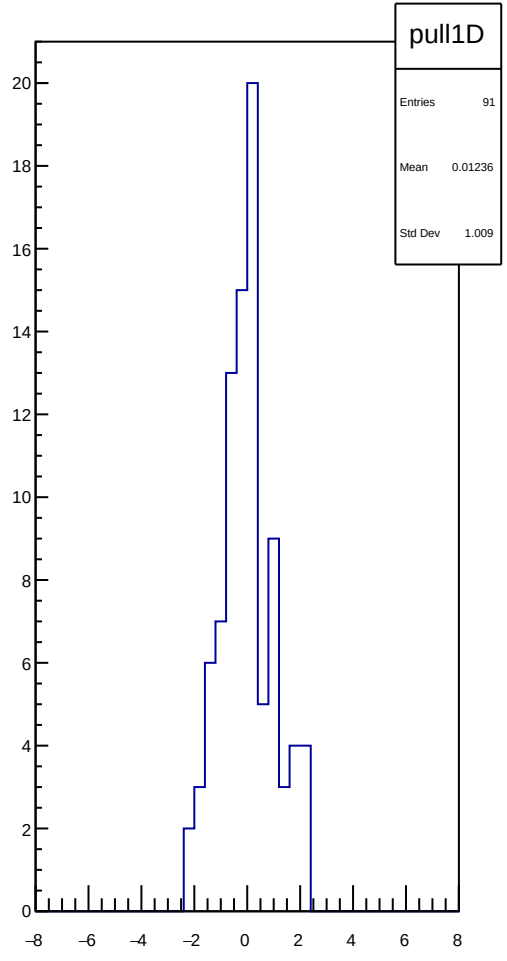

pull1D
Entries 91
Mean 0.0123
Std Dev 1.009
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

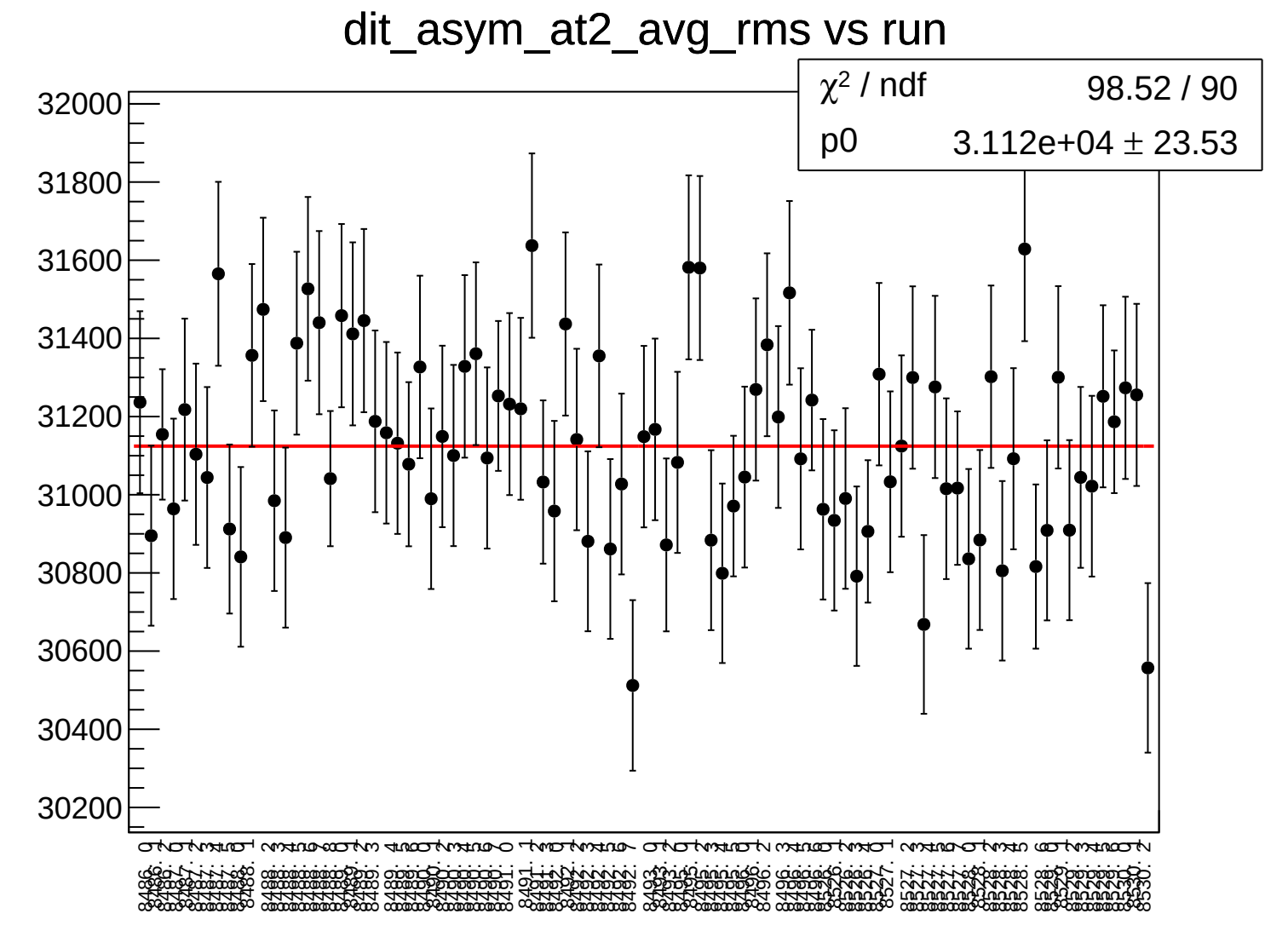

eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 97.67 / 90
p0 3.112e+04 ± 23.53
32000
31800
31600
31400
31200
31000
30800
30600
30400
30200

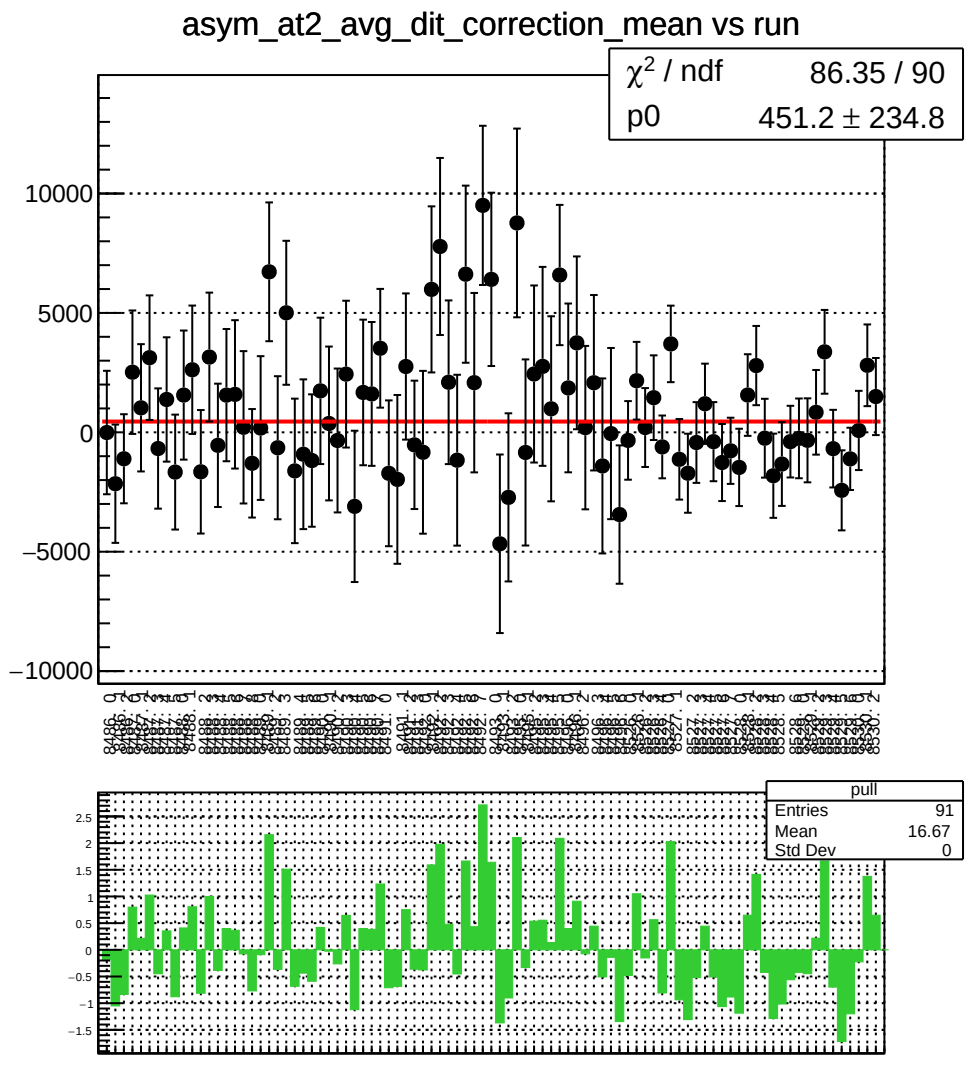

asym_at2_avg_eigen_cor_correction_mean vs run
χ² / ndf 92.18 / 90
p0 −107.1 ± 618.1
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −45.75
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.02722
Std Dev 1.006
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

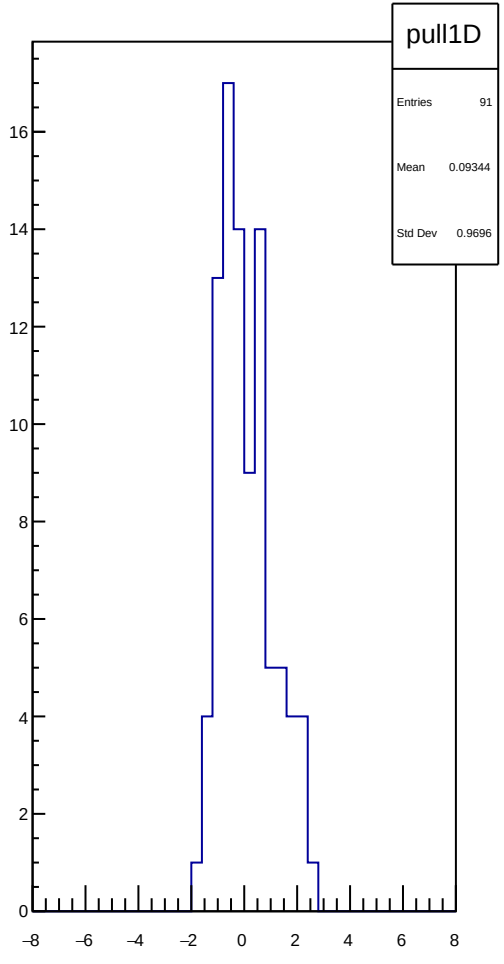

asym_at2_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.161e+05 / 90
p0 541.2 ± 0.437
1400
1200
1000
800
600
400
200

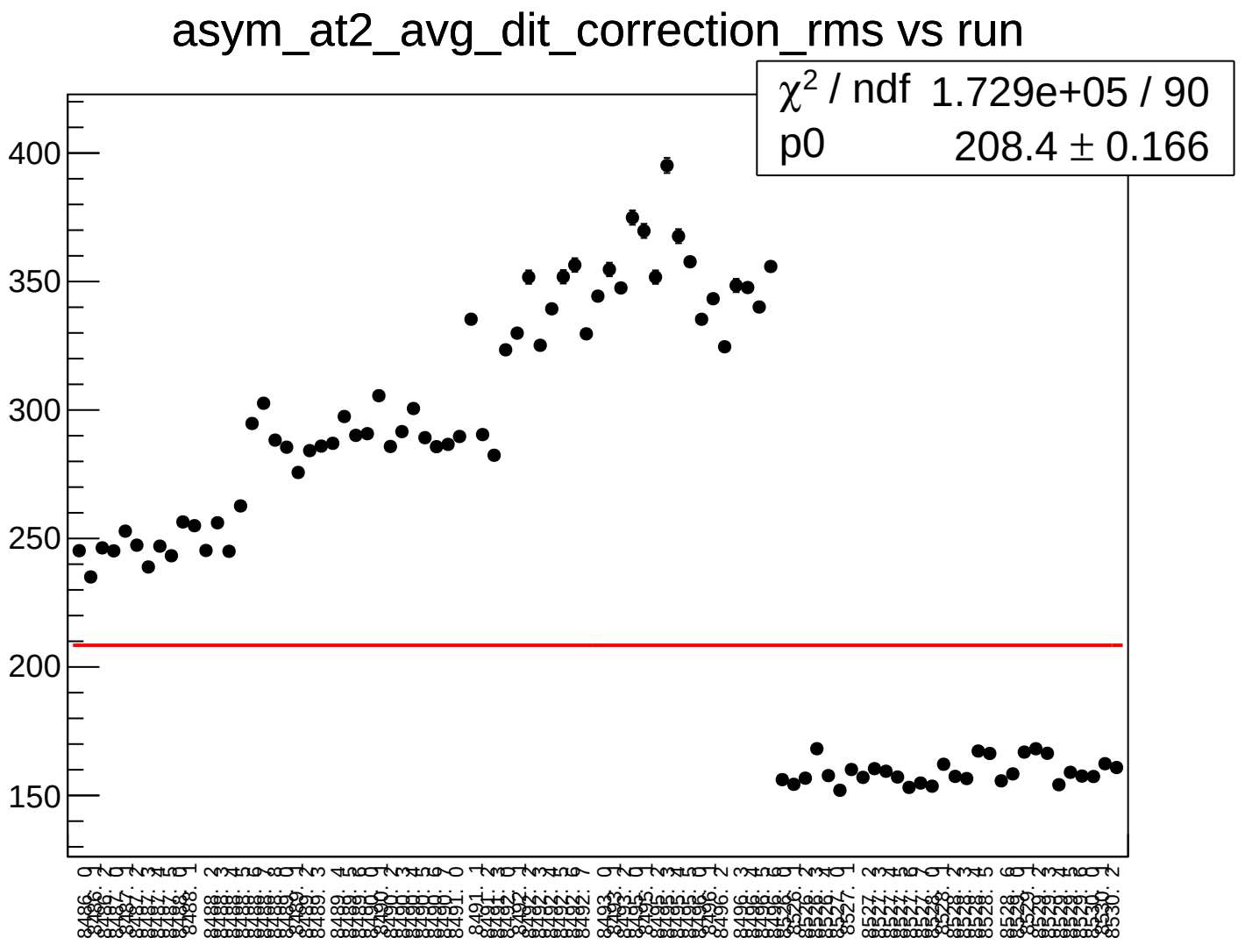

dit_asym_at2_avg_mean vs run
×10^3
χ² / ndf 92.72 / 90
p0 −2.308e+04 ± 3.328e+04
1000
500
0
−500
−1000
pull
Entries 91
Mean −492.2
Std Dev 0
2
1
0
−1
−2

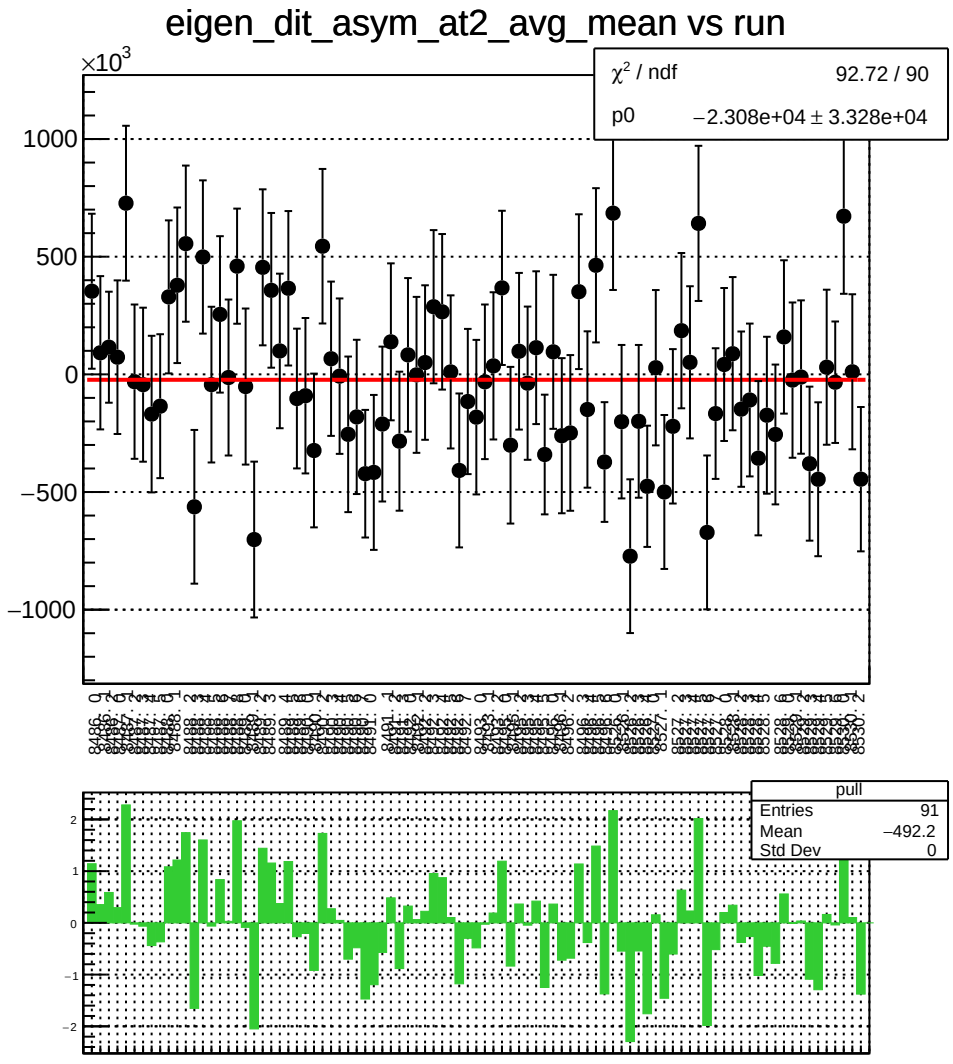

pull1D
Entries 91
Mean 0.01236
Std Dev 1.009
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

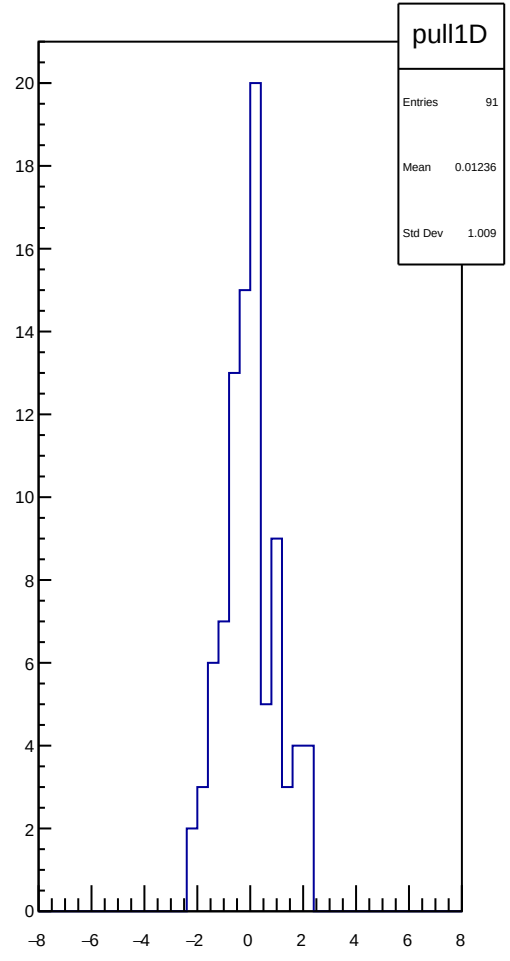

dit_asym_at2_avg_rms vs run
χ² / ndf 98.52 / 90
p0 3.112e+04 ± 23.53
32000
31800
31600
31400
31200
31000
30800
30600
30400
30200


asym_at2_avg_dit_correction_mean vs run
χ² / ndf 86.35 / 90
p0 451.2 ± 234.8
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 16.67
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

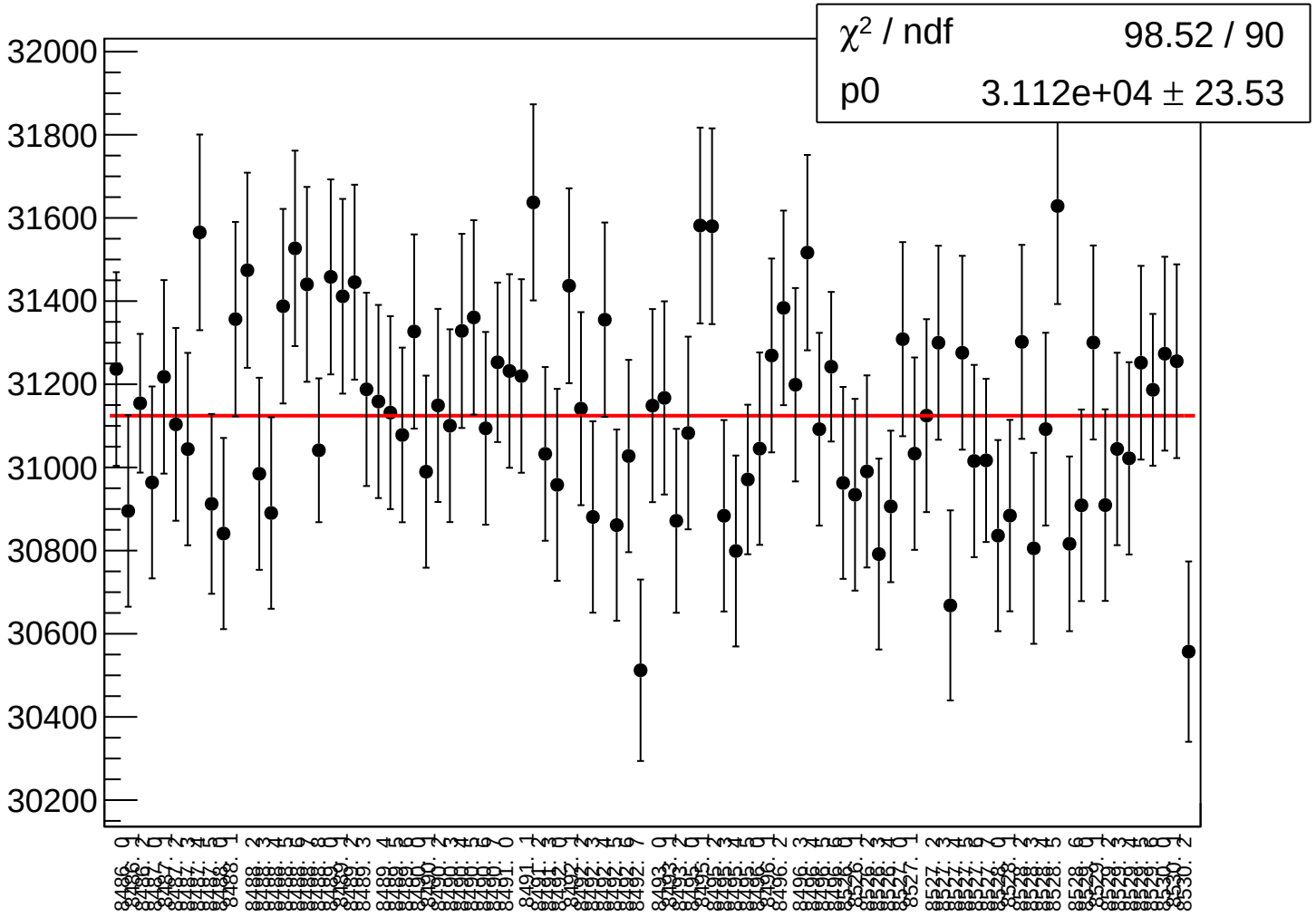

pull1D
Entries 91
Mean 0.09344
Std Dev 0.9696
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

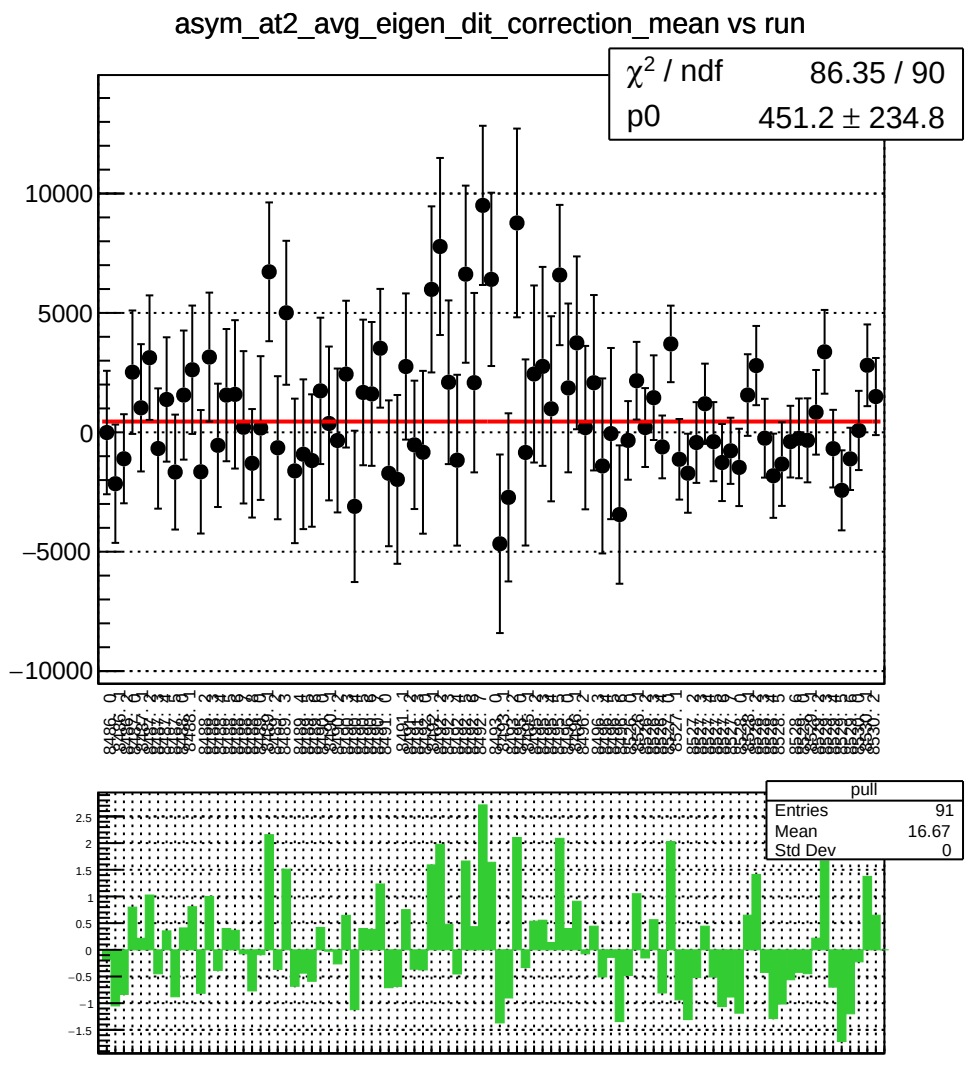

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 1.729e+05 / 90
p0 208.4 ± 0.166
400
350
300
250
200
150

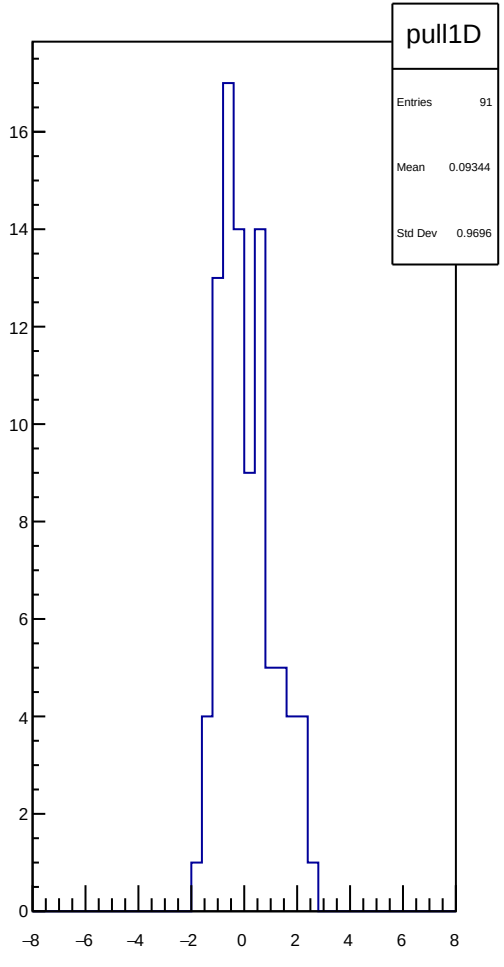

eigen_dit_asym_at2_avg_mean vs run
×10^3
χ² / ndf 92.72 / 90
p0 −2.308e+04 ± 3.328e+04
1000
500
0
−500
−1000
pull
Entries 91
Mean −492.2
Std Dev 0
2
1
0
−1
−2

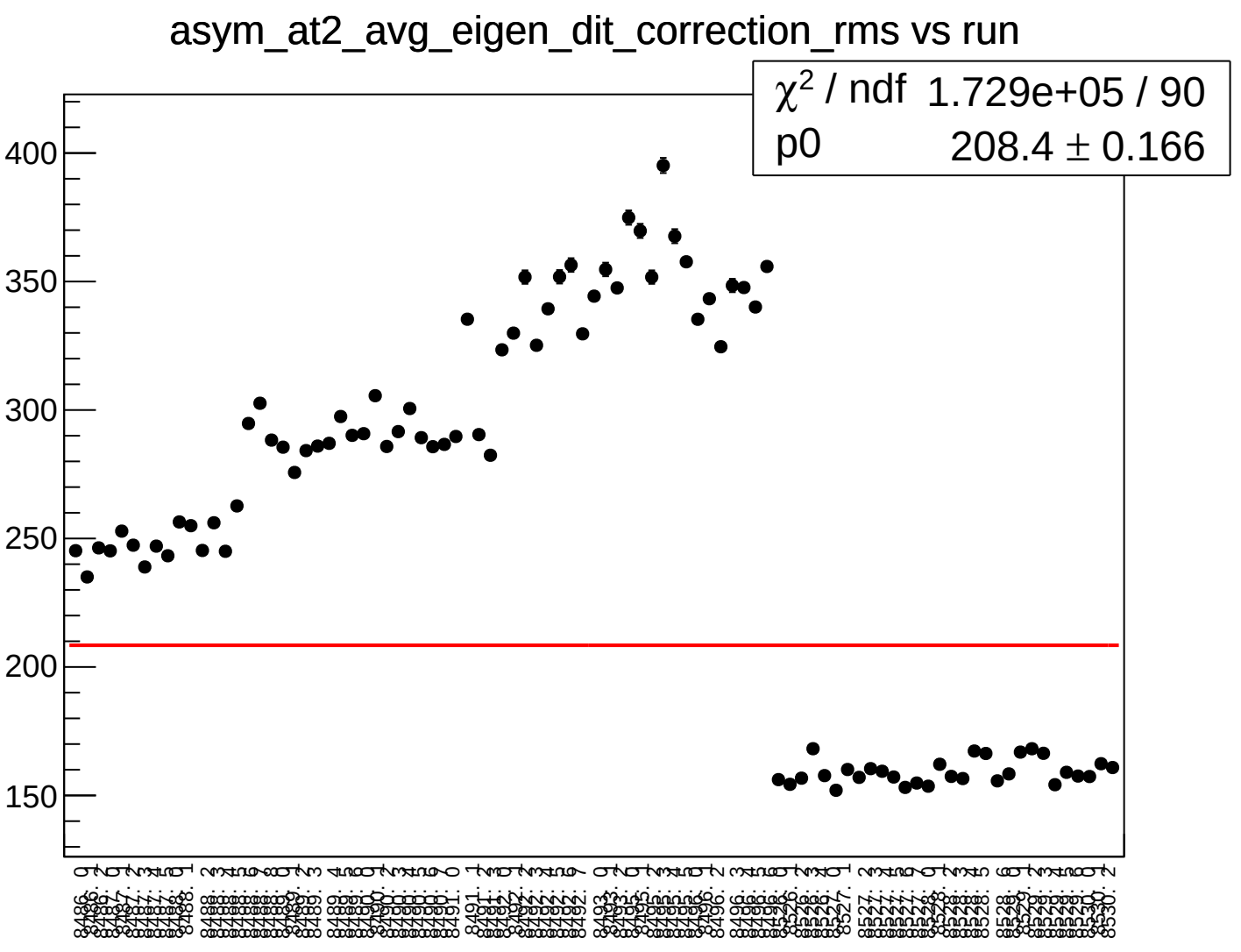

pull1D
Entries 91
Mean 0.01236
Std Dev 1.009
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

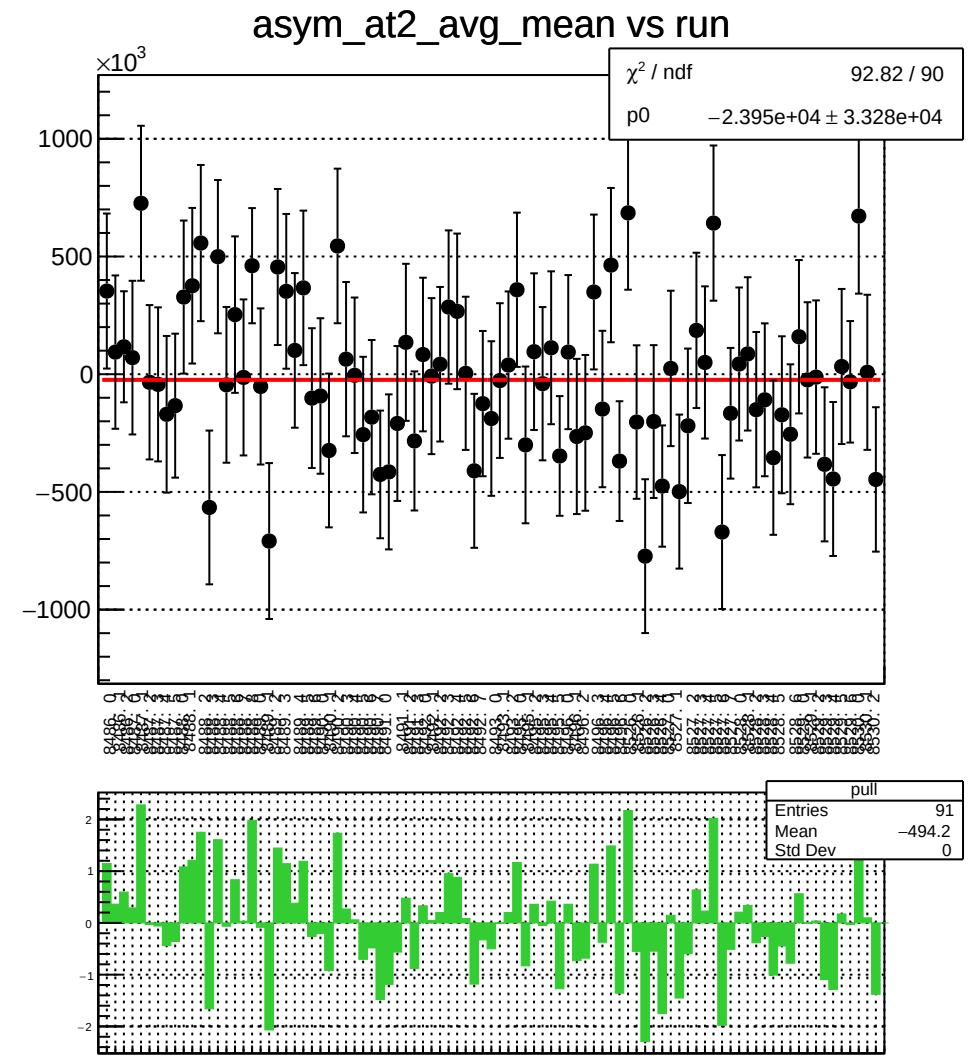
eigen_dit_asym_at2_avg_rms vs run

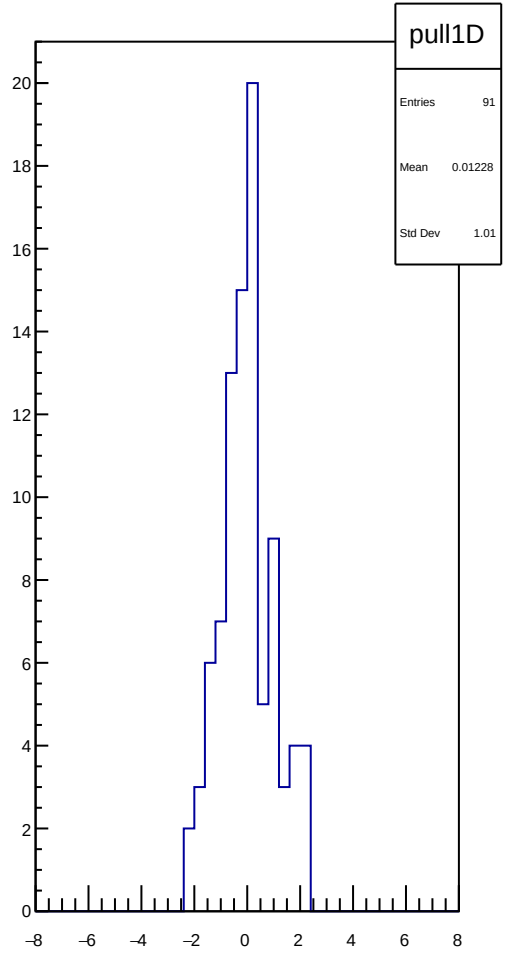


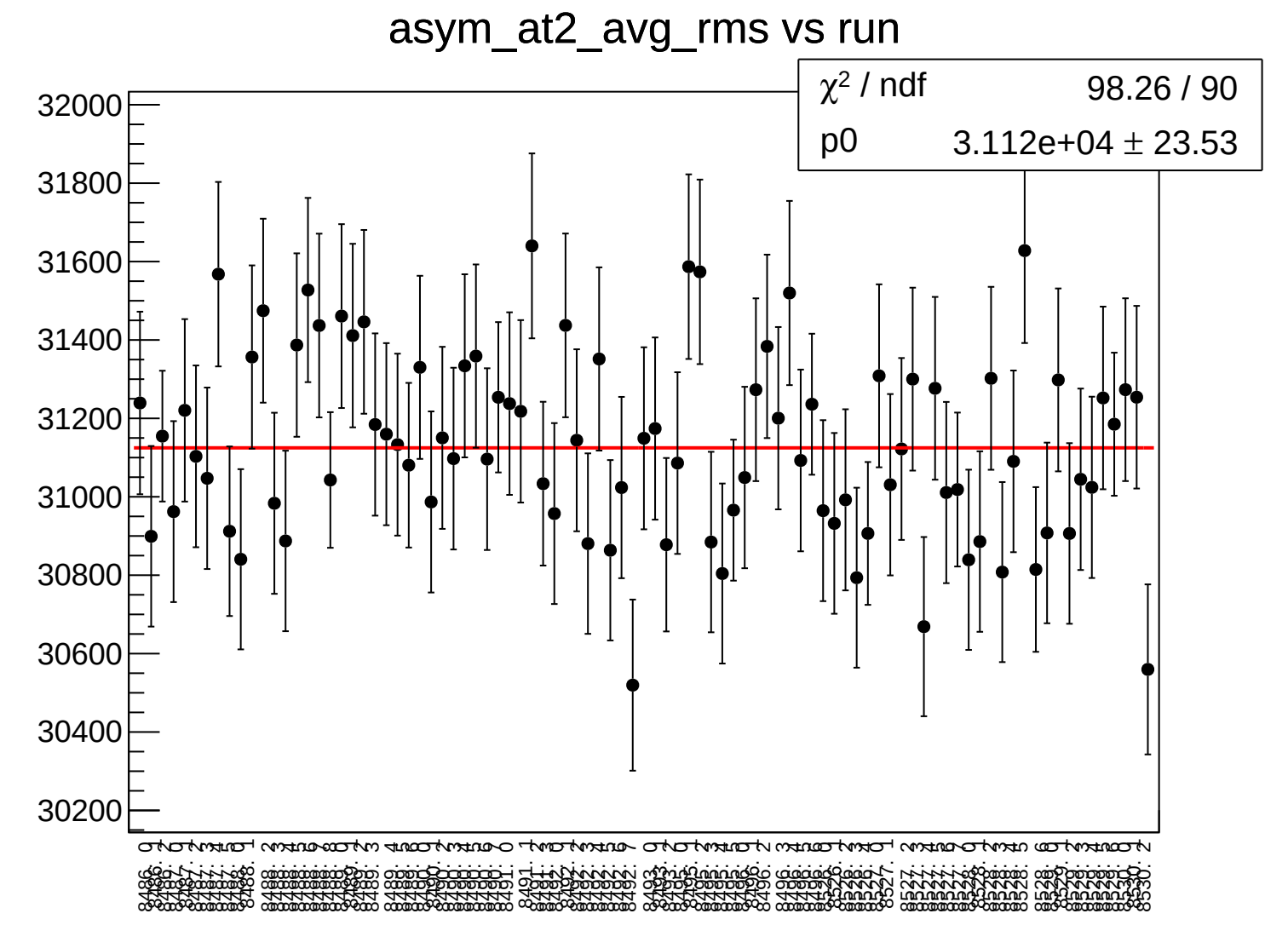

asym_at2_avg_eigen_dit_correction_mean vs run
χ² / ndf 86.35 / 90
p0 451.2 ± 234.8
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 16.67
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

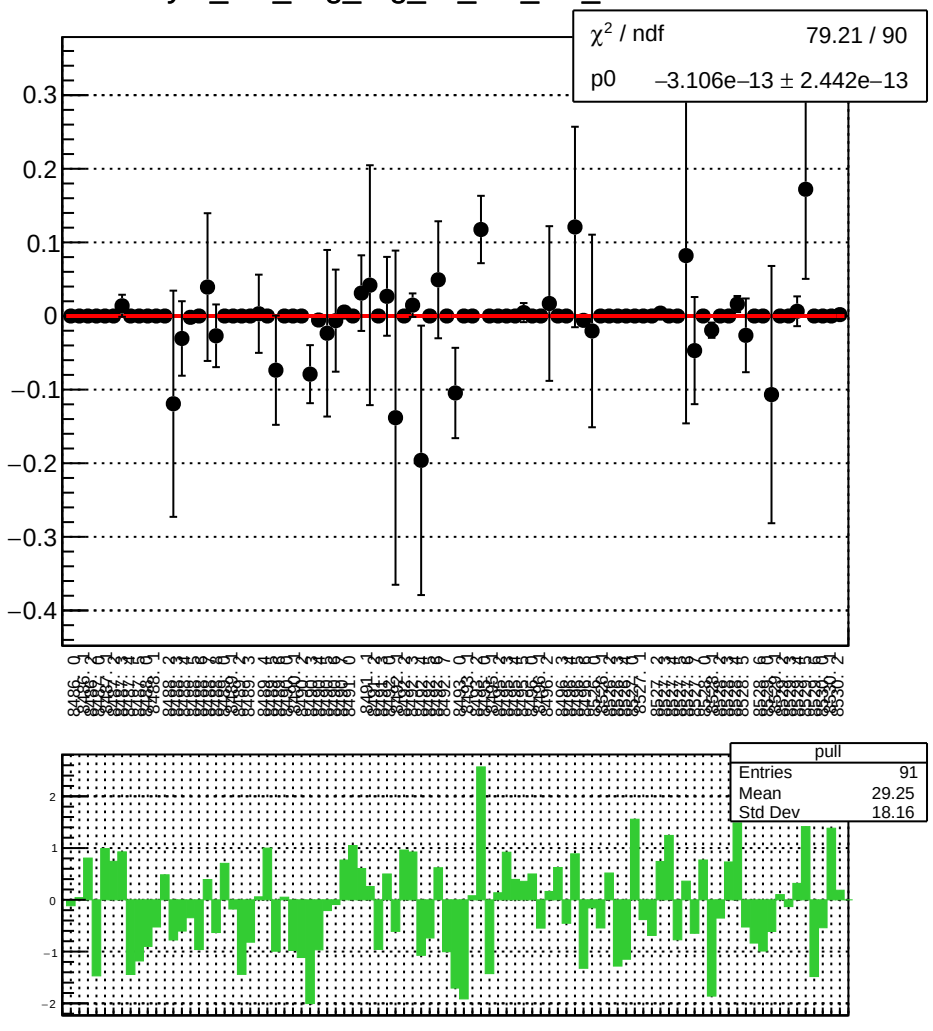

pull1D
Entries 91
Mean 0.09344
Std Dev 0.9696
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

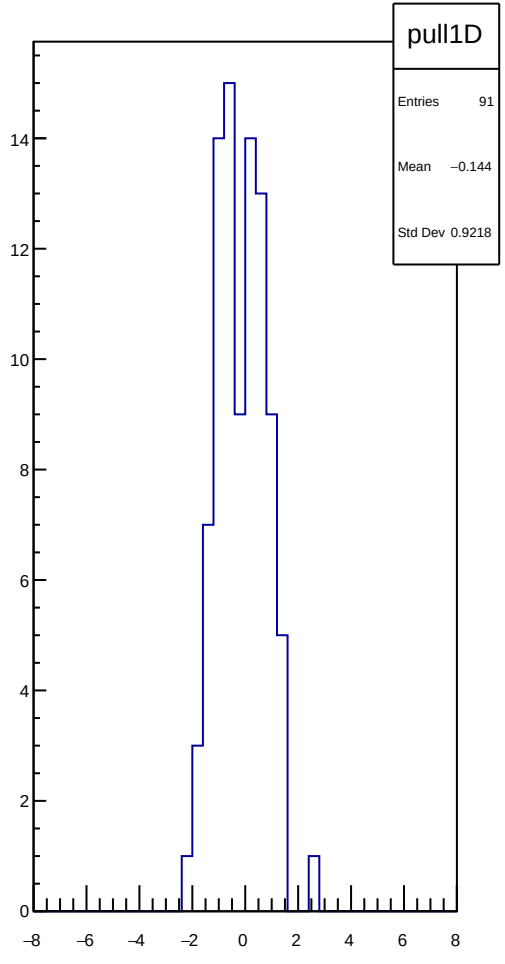

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.729e+05 / 90
p0 208.4 ± 0.166
400
350
300
250
200
150

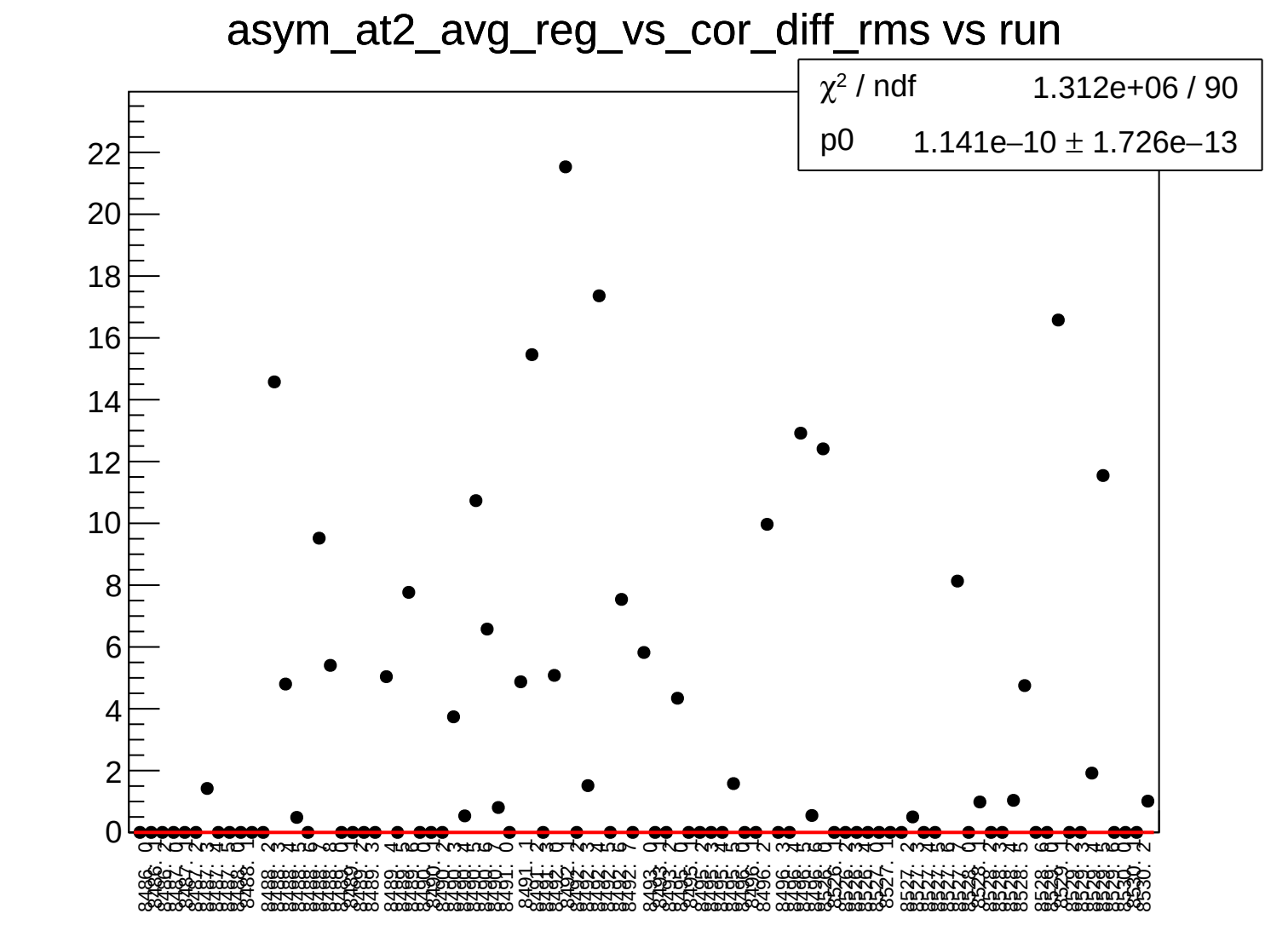

asym_at2_avg_mean vs run
×10^3
χ² / ndf 92.82 / 90
p0 −2.395e+04 ± 3.328e+04
1000
500
0
−500
−1000
pull
Entries 91
Mean −494.2
Std Dev 0
2
1
0
−1
−2

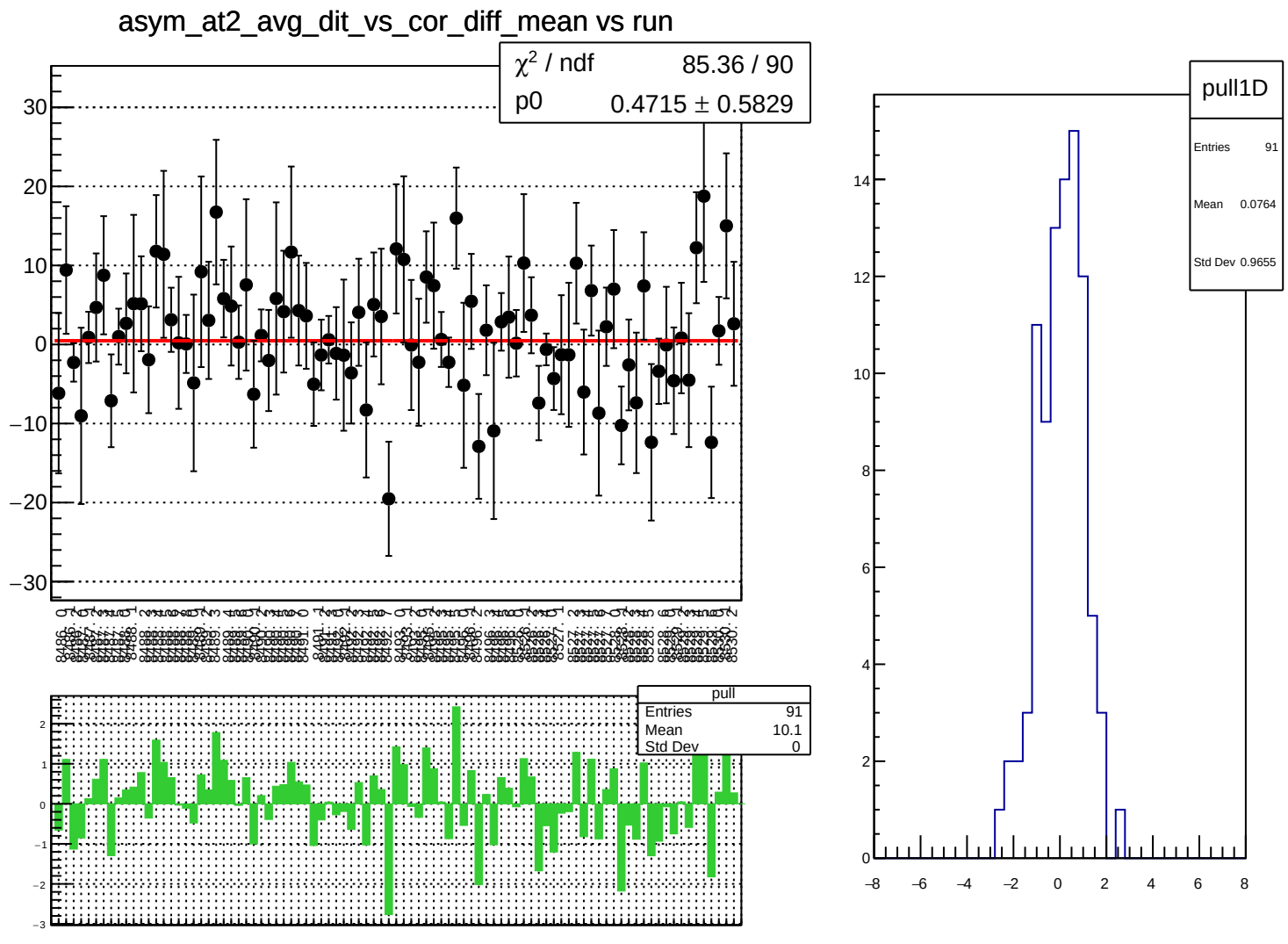

pull1D
Entries 91
Mean 0.01228
Std Dev 1.01
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

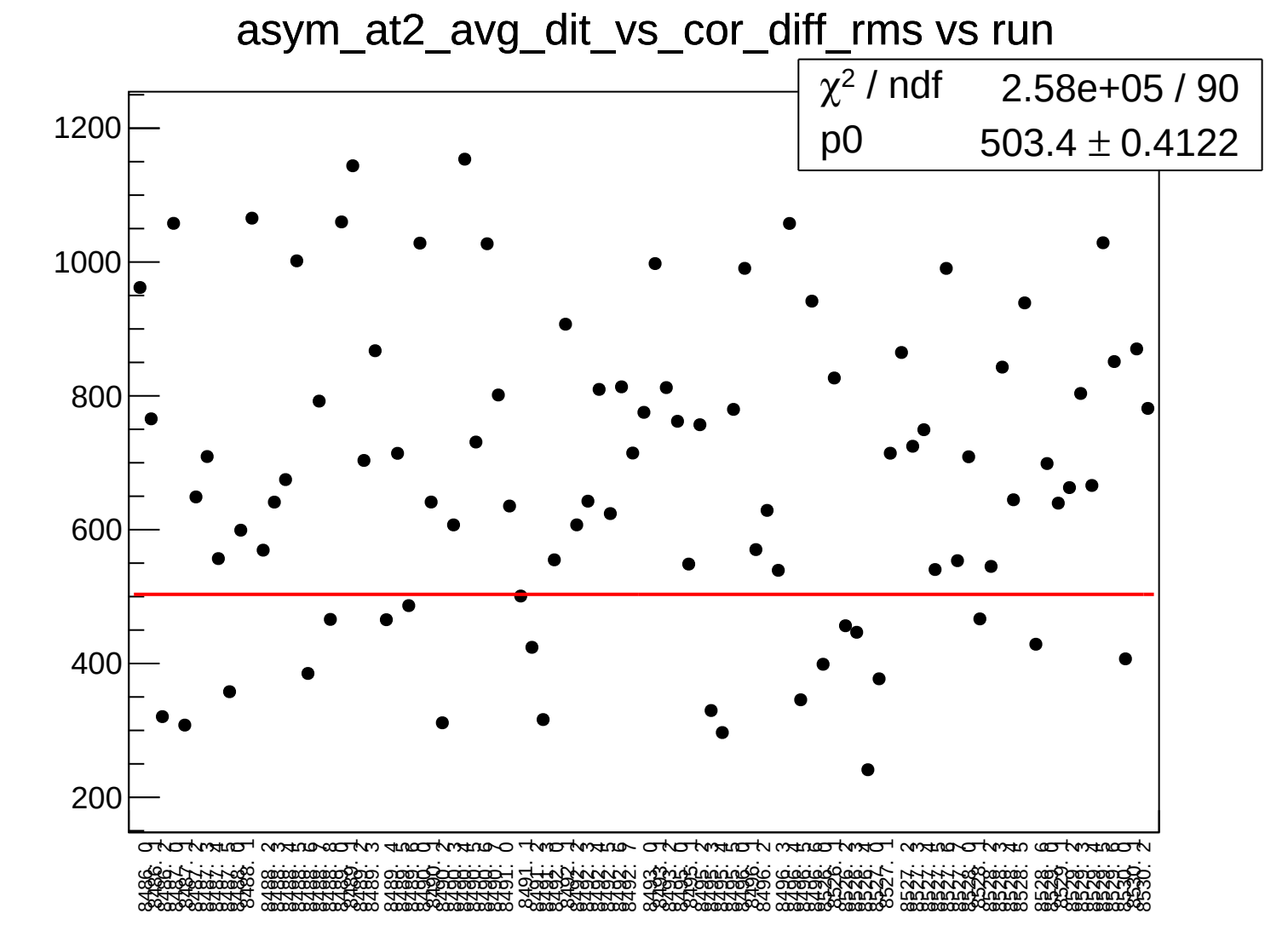

asym_at2_avg_rms vs run
χ² / ndf 98.26 / 90
p0 3.112e+04 ± 23.53
32000
31800
31600
31400
31200
31000
30800
30600
30400
30200

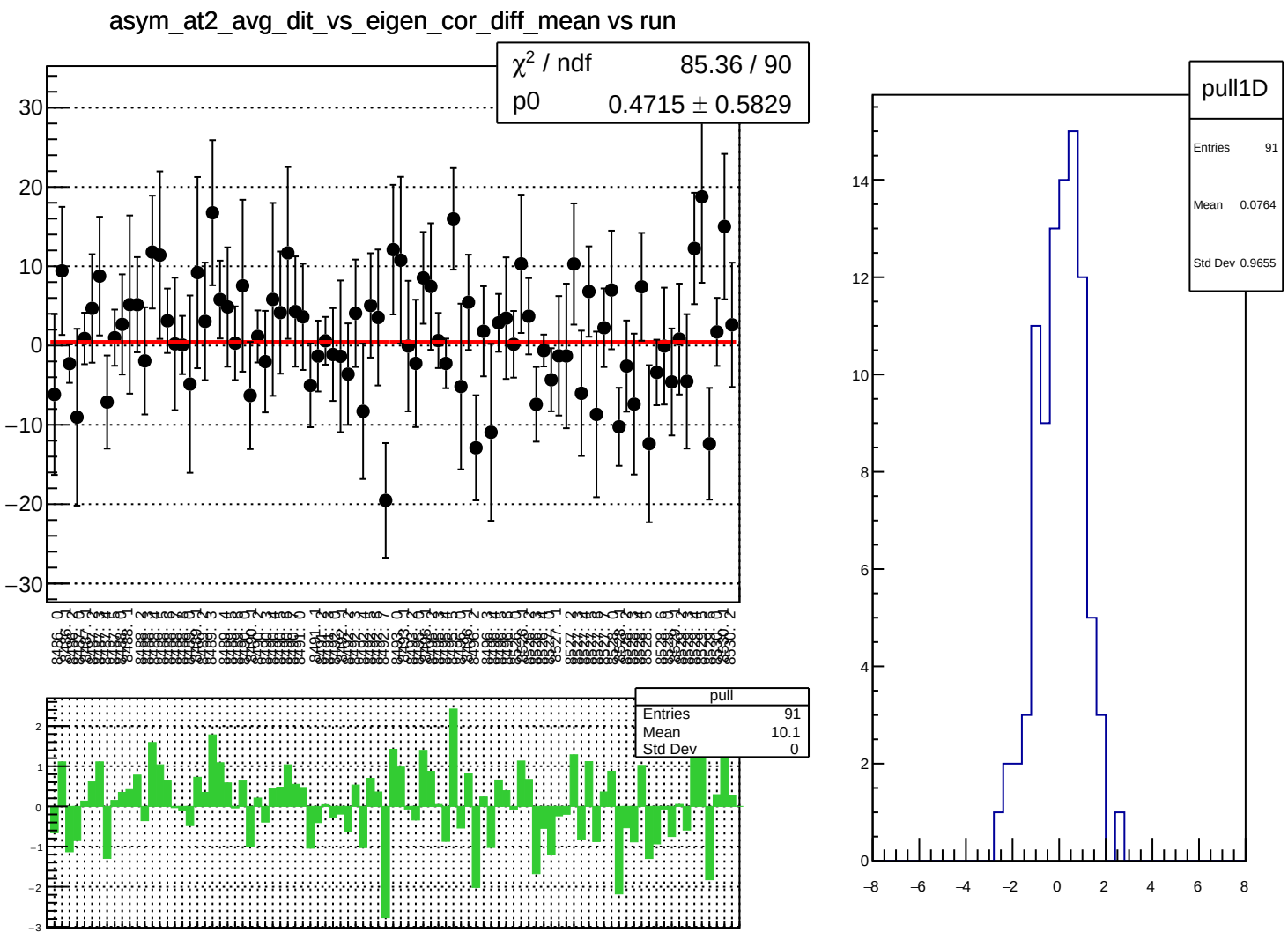

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 79.21 / 90
p0 −3.106e−13 ± 2.442e−13
pull
Entries 91
Mean 29.25
Std Dev 18.16

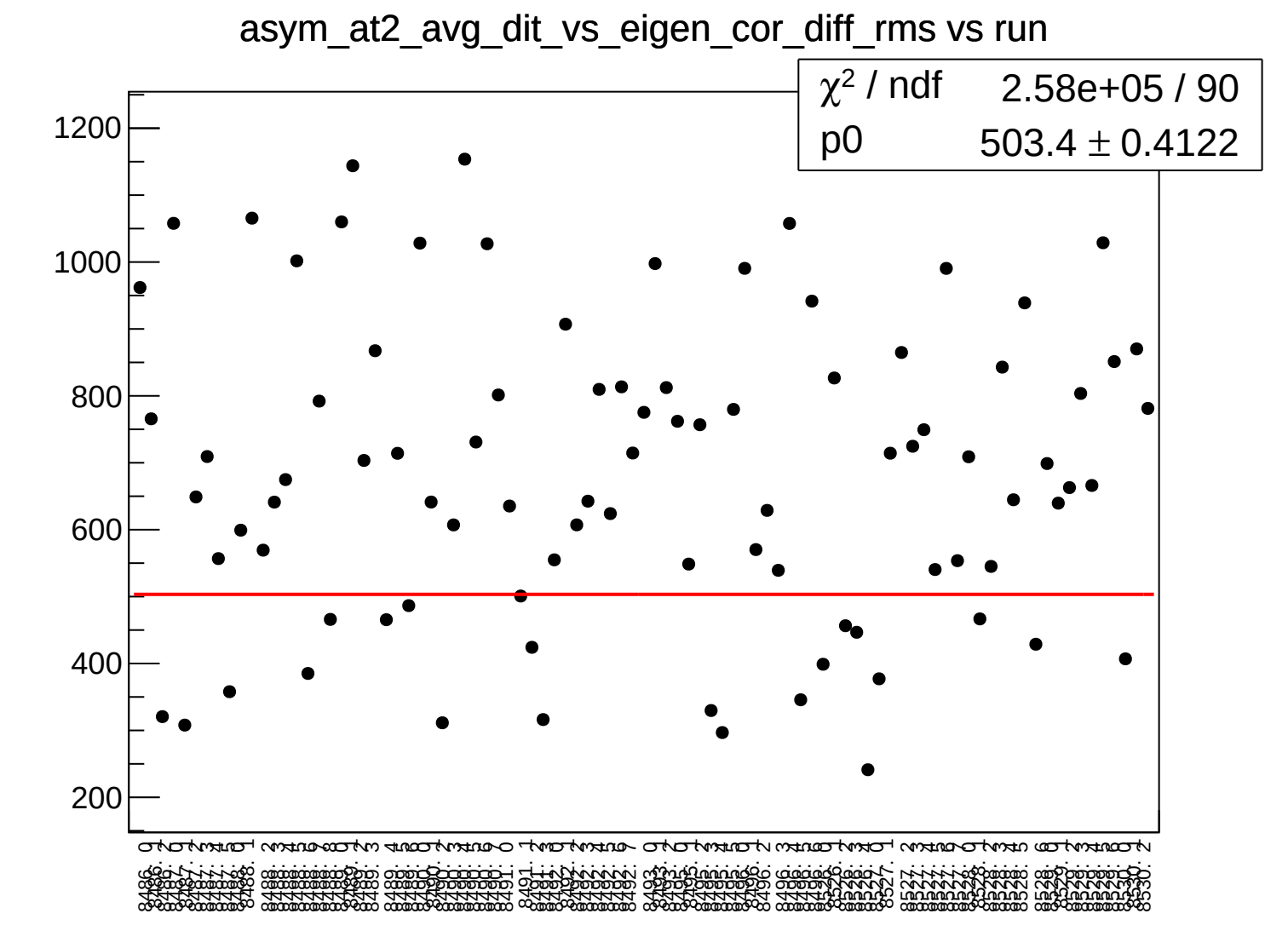

pull1D
Entries 91
Mean −0.144
Std Dev 0.9218

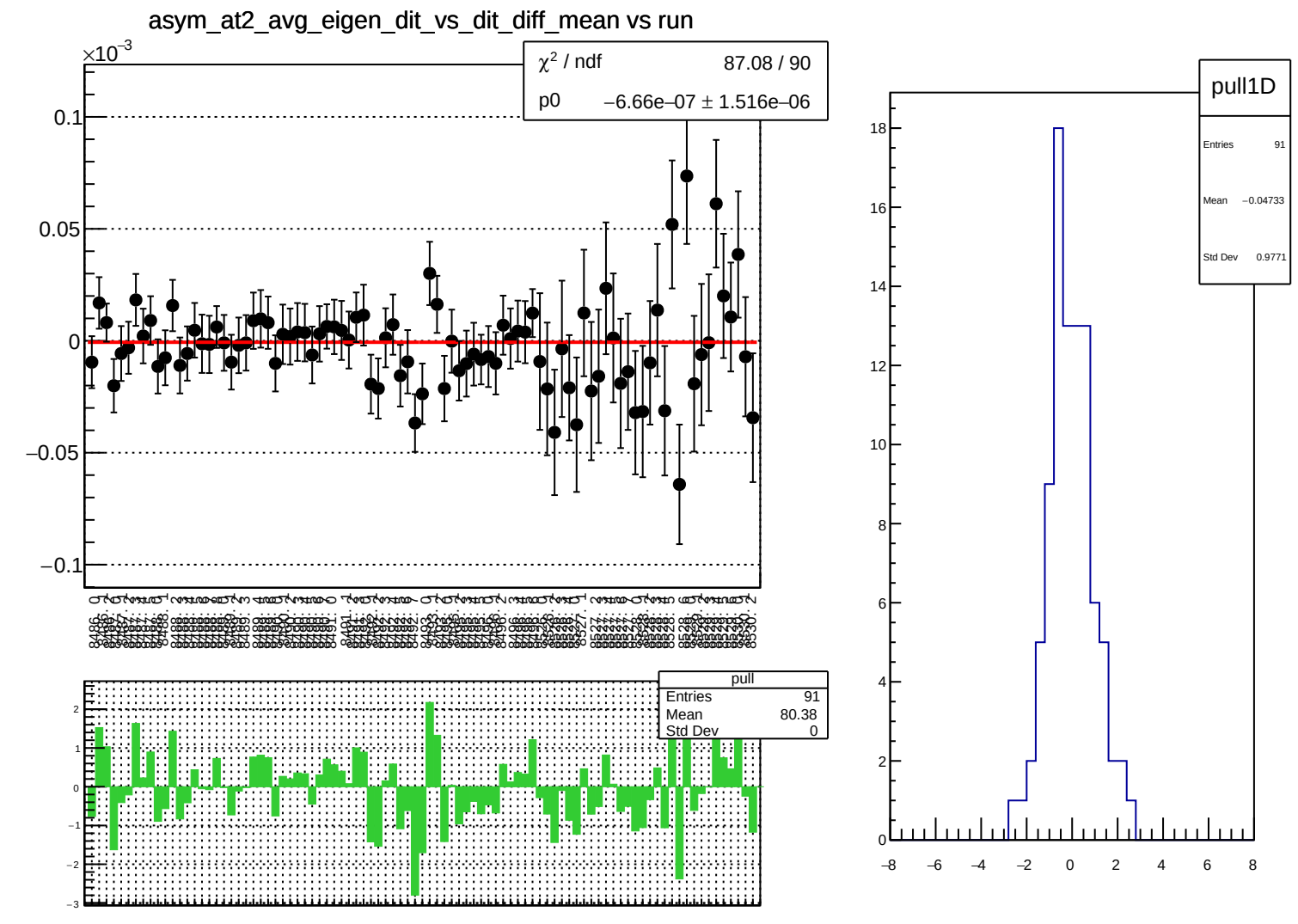

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.312e+06 / 90
p0 1.141e−10 ± 1.726e−13
0
2
4
6
8
10
12
14
16
18
20
22

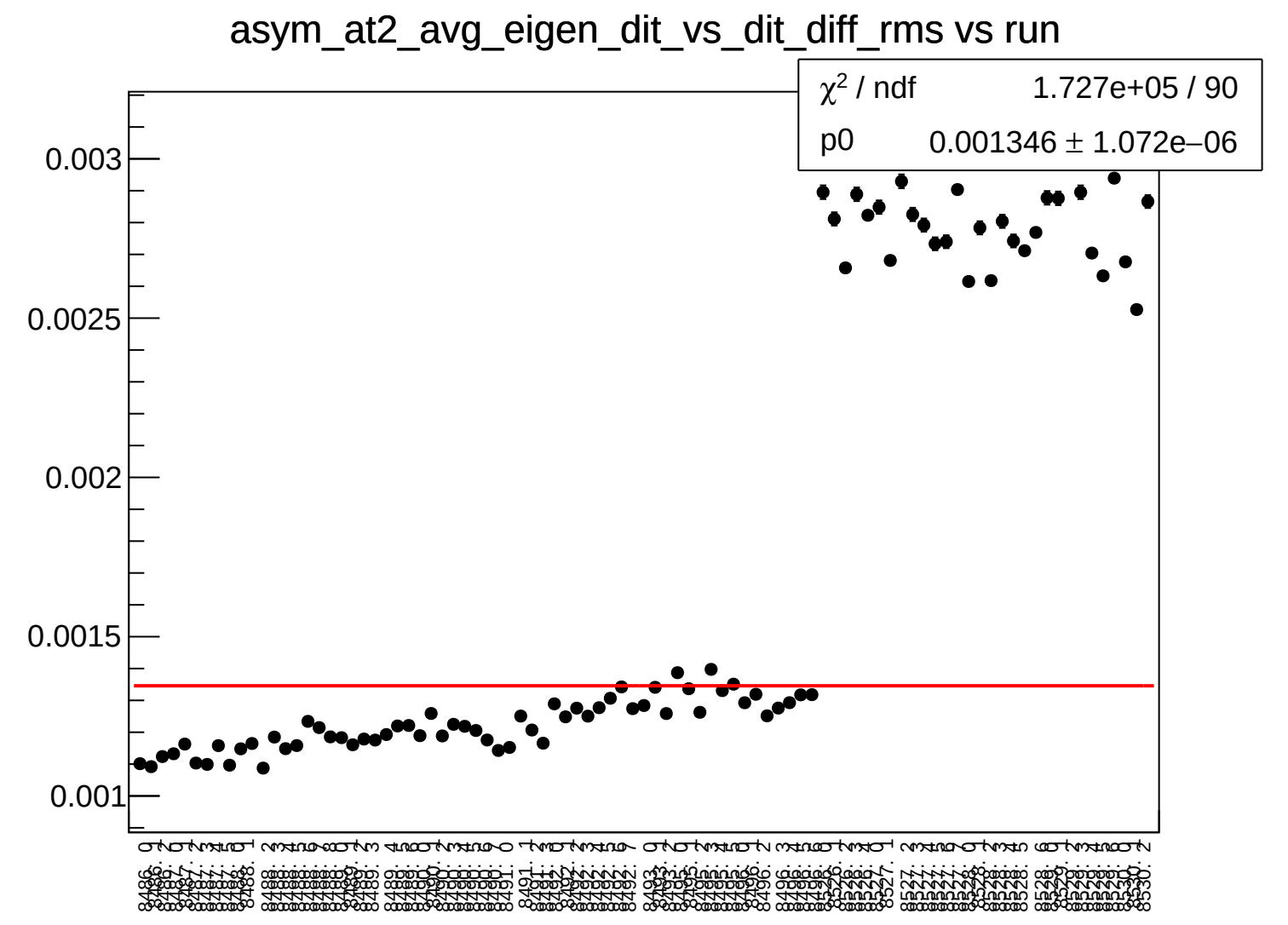

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 85.36 / 90
p0 0.4715 ± 0.5829
pull
Entries 91
Mean 10.1
Std Dev 0
pull1D
Entries 91
Mean 0.0764
Std Dev 0.9655

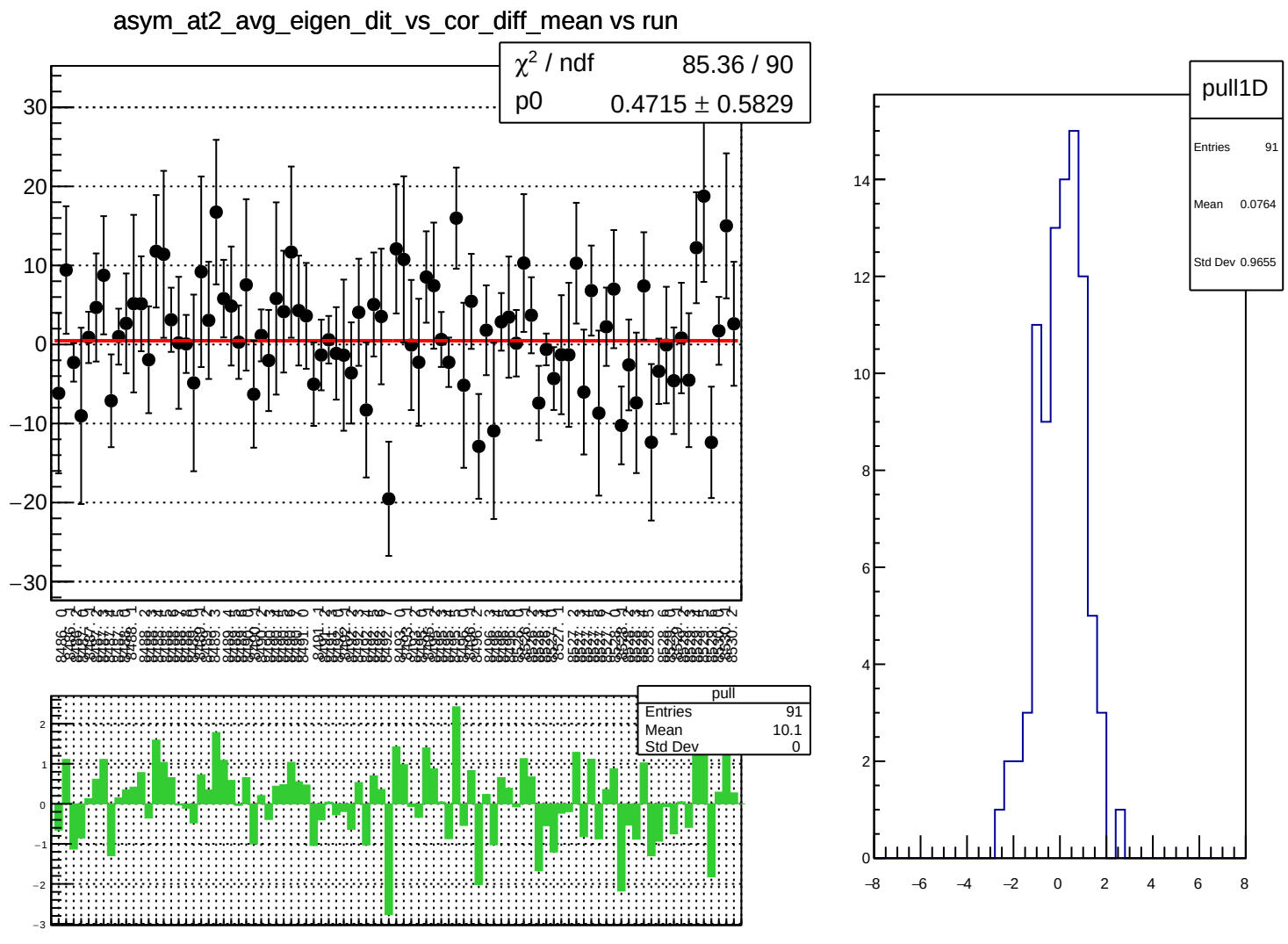

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.58e+05 / 90
p0 503.4 ± 0.4122
1200
1000
800
600
400
200

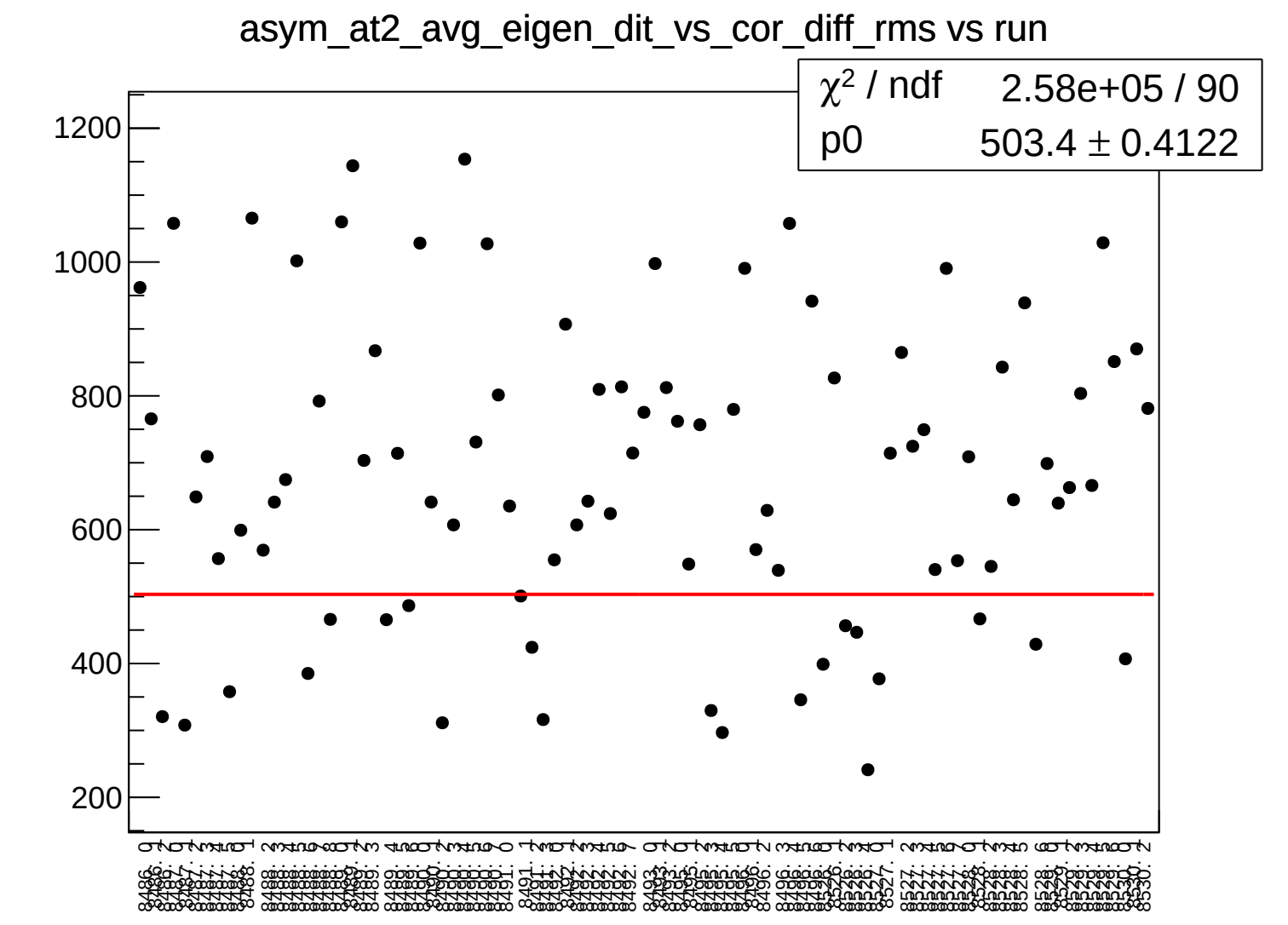

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.36 / 90
p0 0.4715 ± 0.5829
pull
Entries 91
Mean 10.1
Std Dev 0
pull1D
Entries 91
Mean 0.0764
Std Dev 0.9655

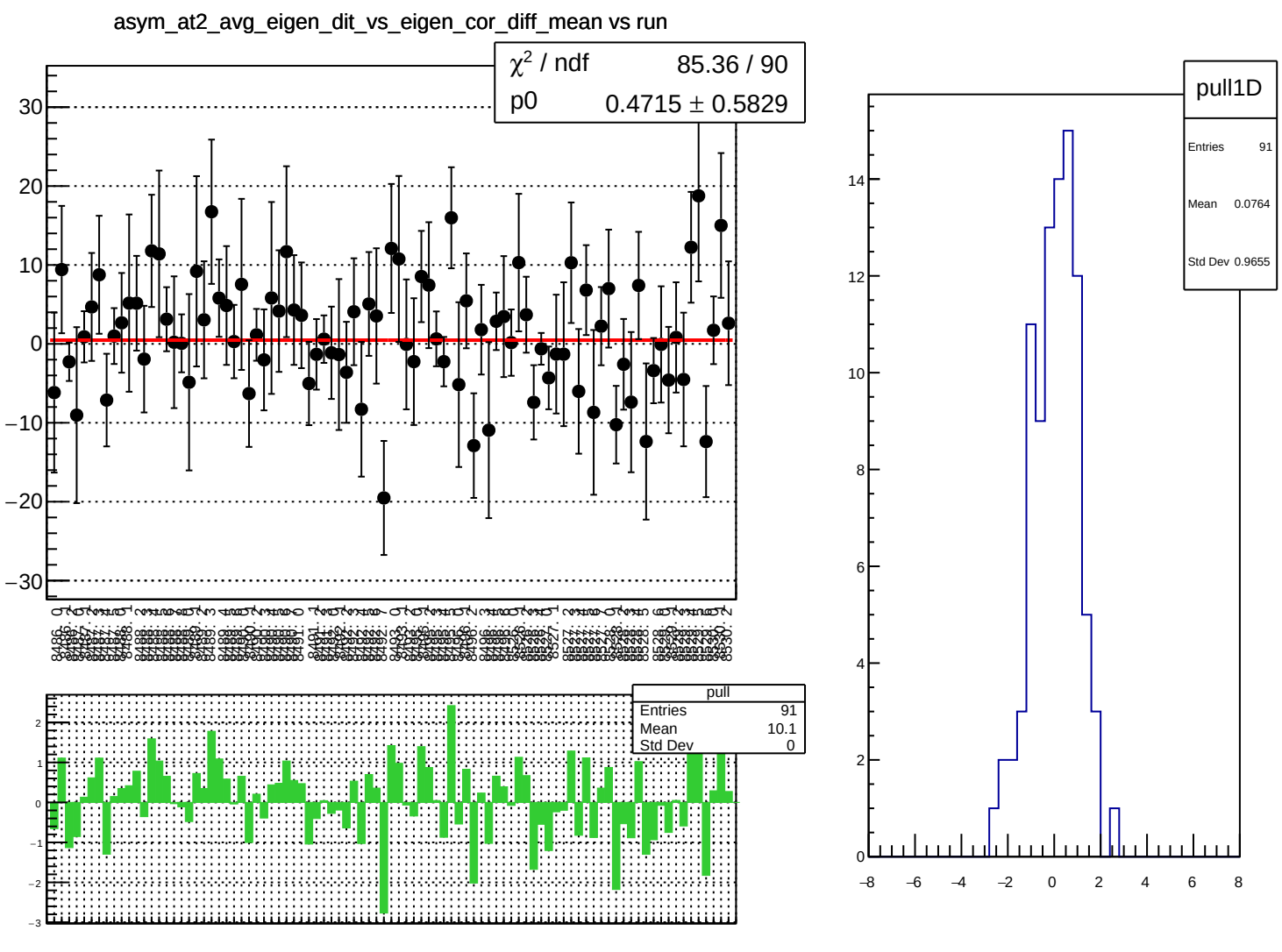

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.58e+05 / 90
p0 503.4 ± 0.4122
1200
1000
800
600
400
200

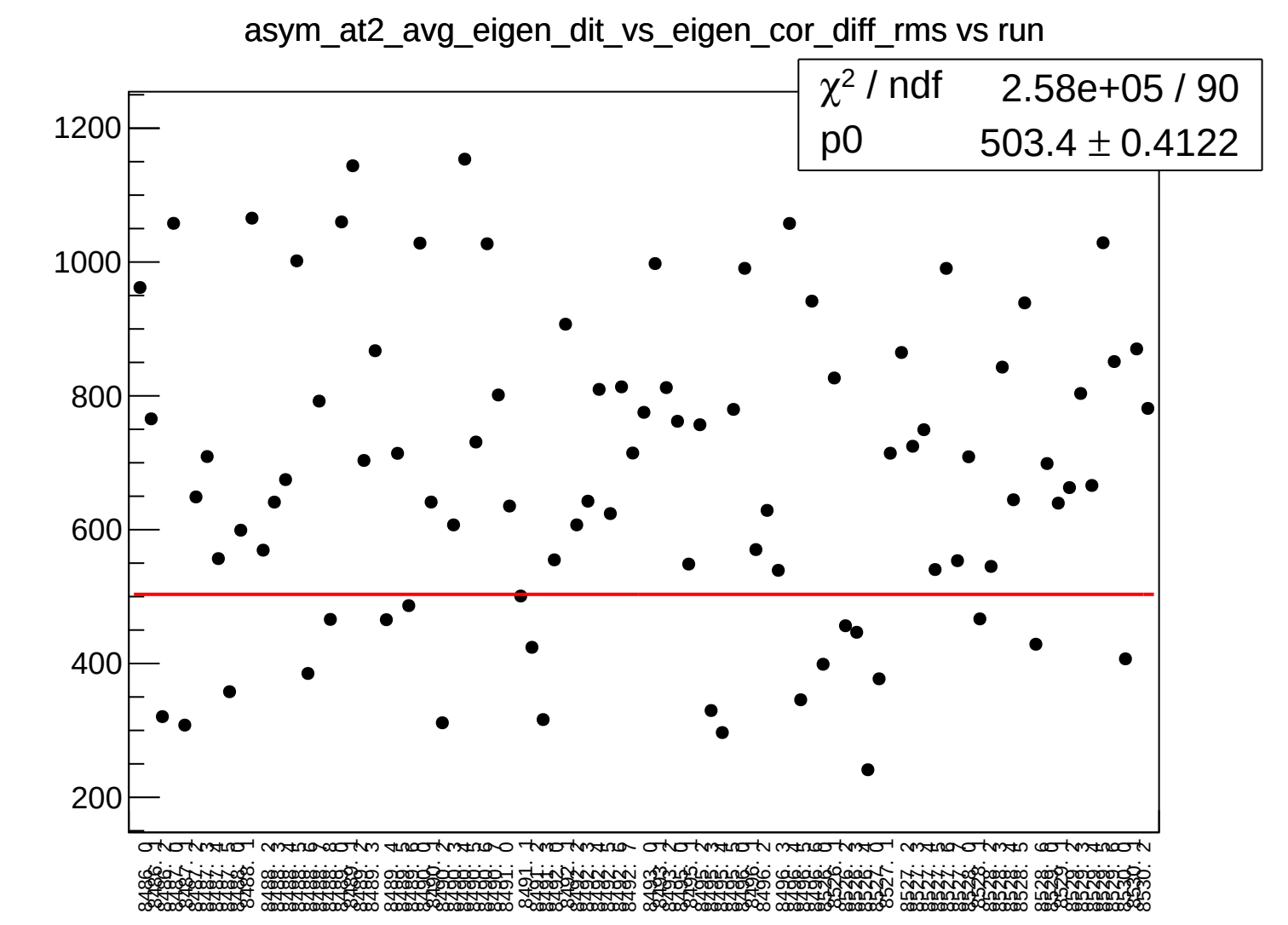

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.08 / 90
p0 −6.66e−07 ± 1.516e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 91
Mean 80.38
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean −0.04733
Std Dev 0.9771
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

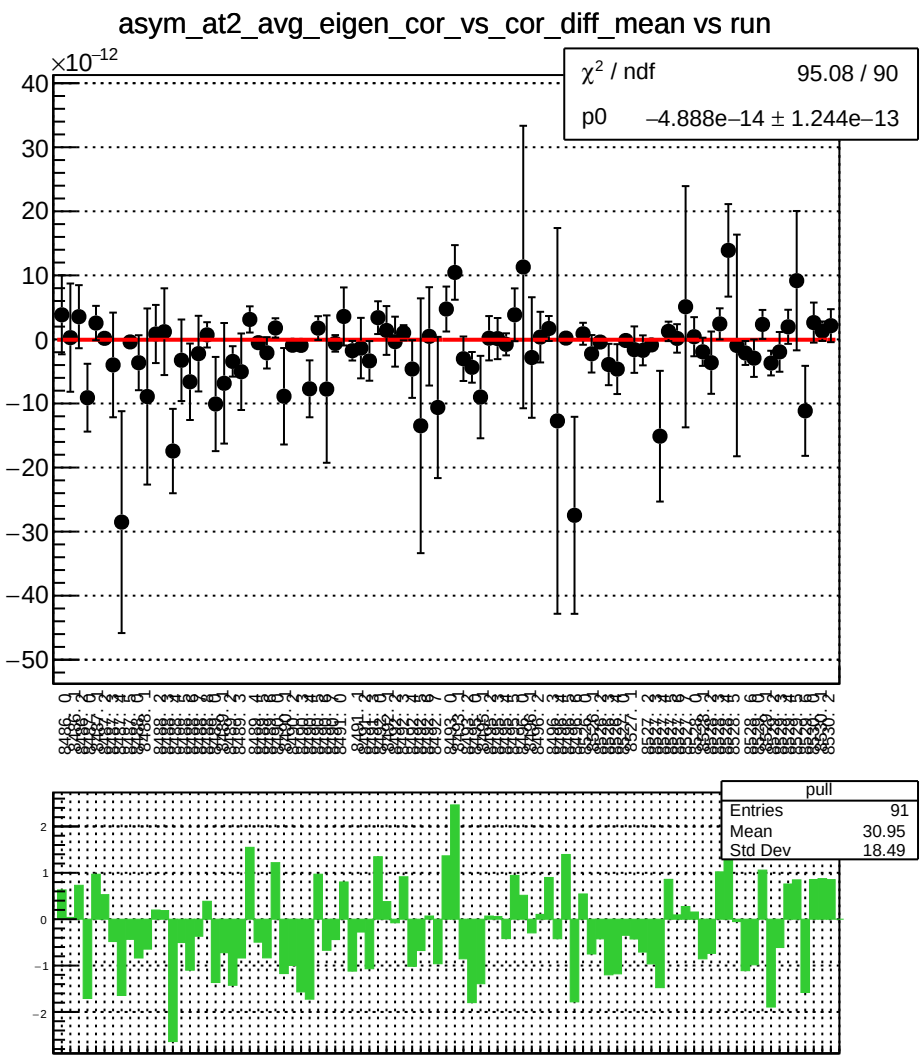

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.727e+05 / 90
p0 0.001346 ± 1.072e−06
0.003
0.0025
0.002
0.0015
0.001

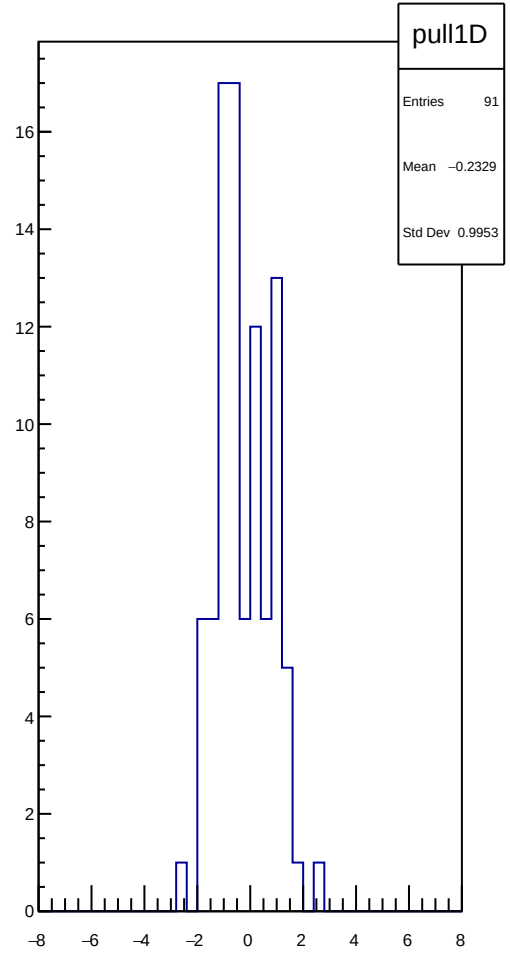

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.36 / 90
p0 0.4715 ± 0.5829
pull
Entries 91
Mean 10.1
Std Dev 0
pull1D
Entries 91
Mean 0.0764
Std Dev 0.9655

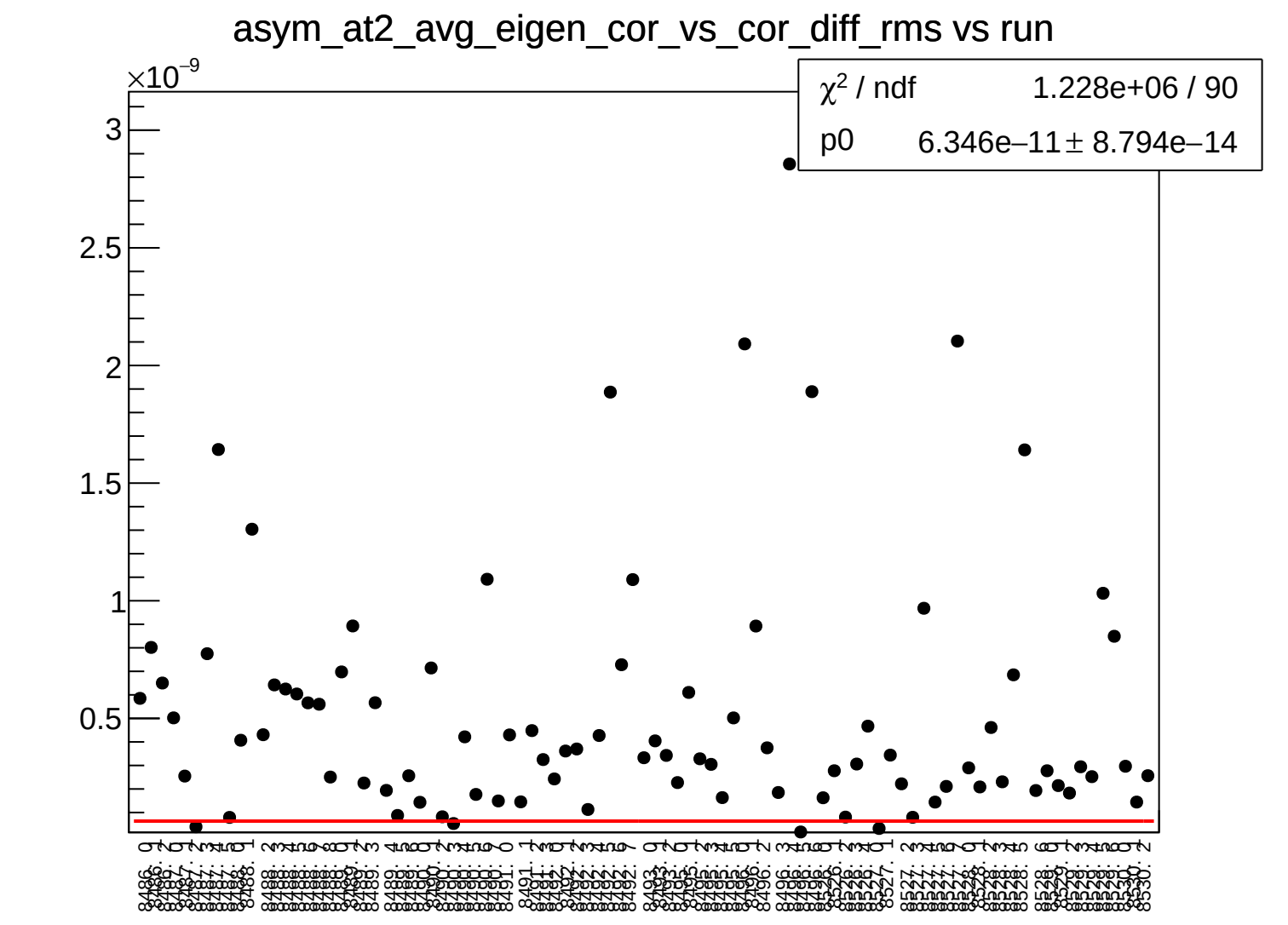

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.58e+05 / 90
p0 503.4 ± 0.4122
1200
1000
800
600
400
200

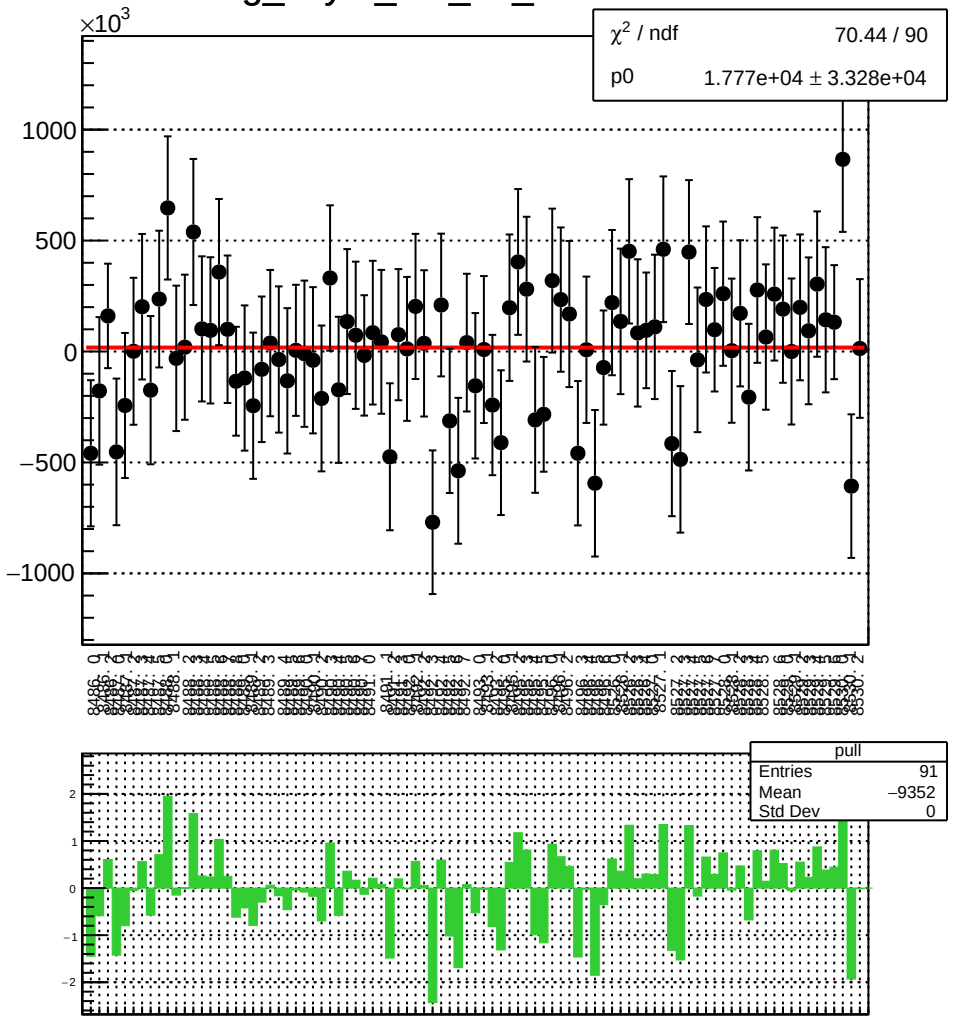

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.36 / 90
p0 0.4715 ± 0.5829
pull
Entries 91
Mean 10.1
Std Dev 0
pull1D
Entries 91
Mean 0.0764
Std Dev 0.9655

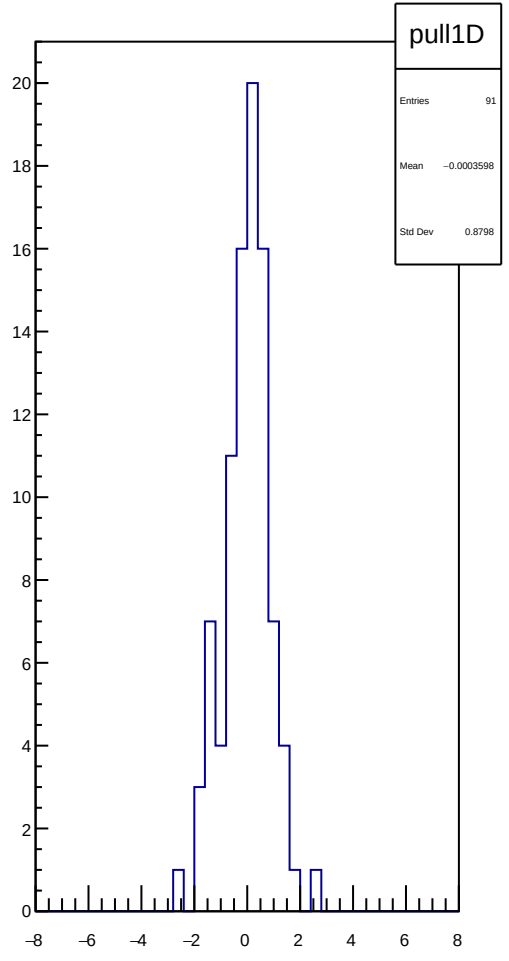

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.58e+05 / 90
p0 503.4 ± 0.4122
1200
1000
800
600
400
200

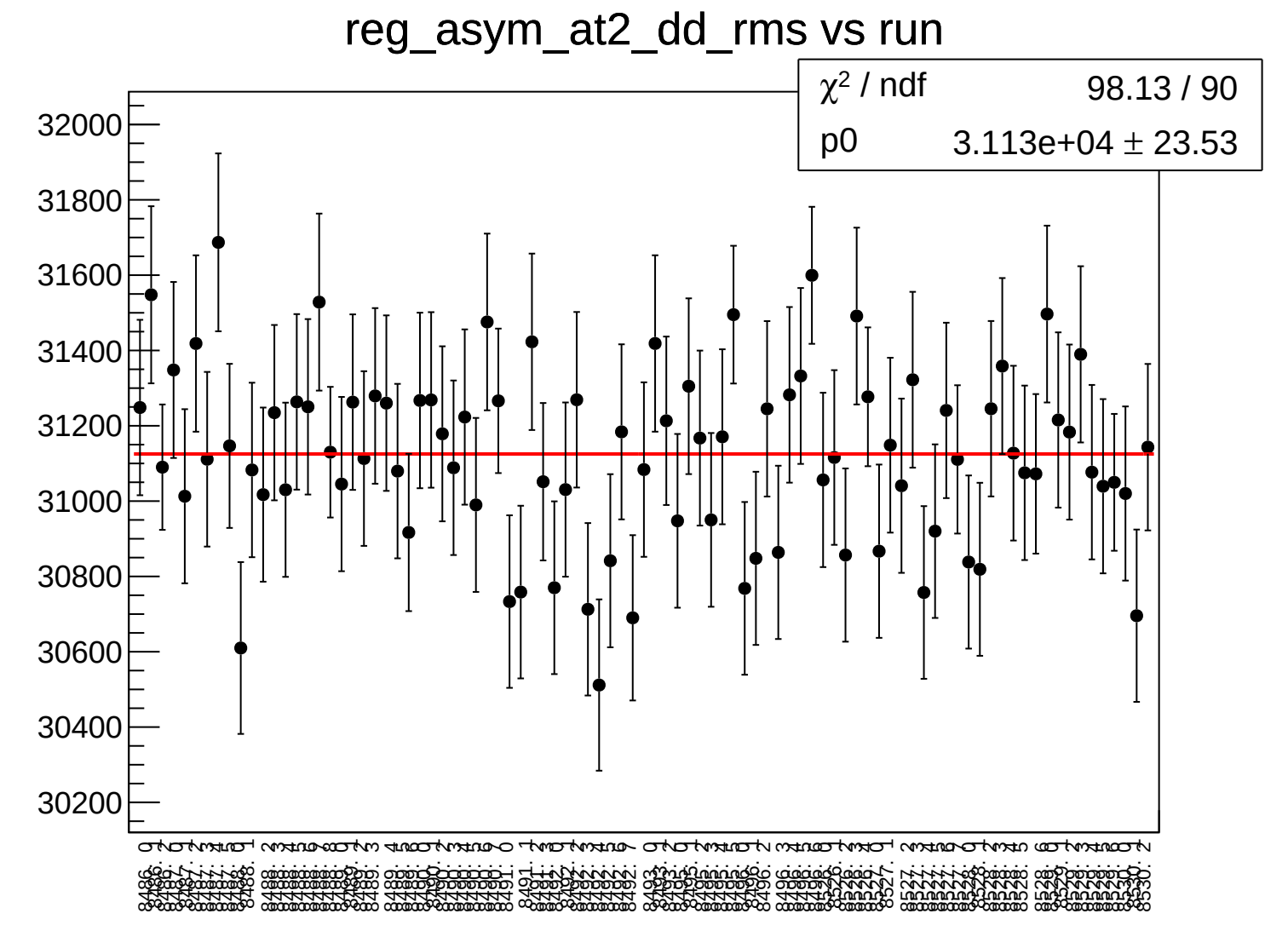

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.08 / 90
p0 −4.888e−14 ± 1.244e−13
pull
Entries 91
Mean 30.95
Std Dev 18.49

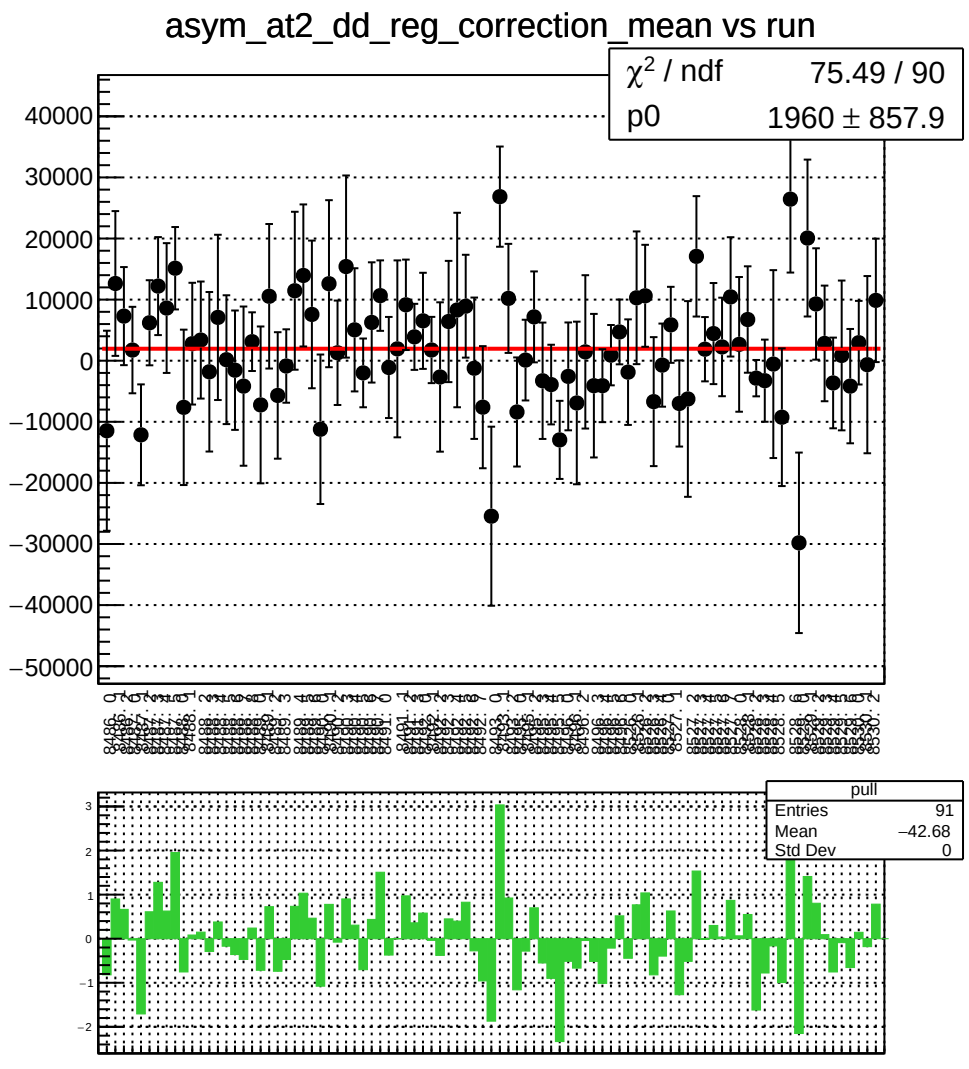

pull1D
Entries 91
Mean −0.2329
Std Dev 0.9953

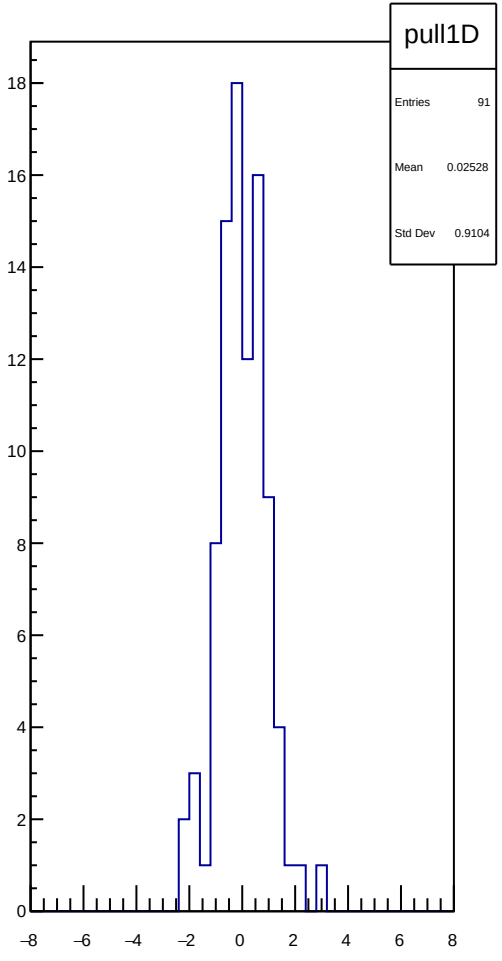

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.228e+06 / 90
p0 6.346e−11 ± 8.794e−14
3
2.5
2
1.5
1
0.5

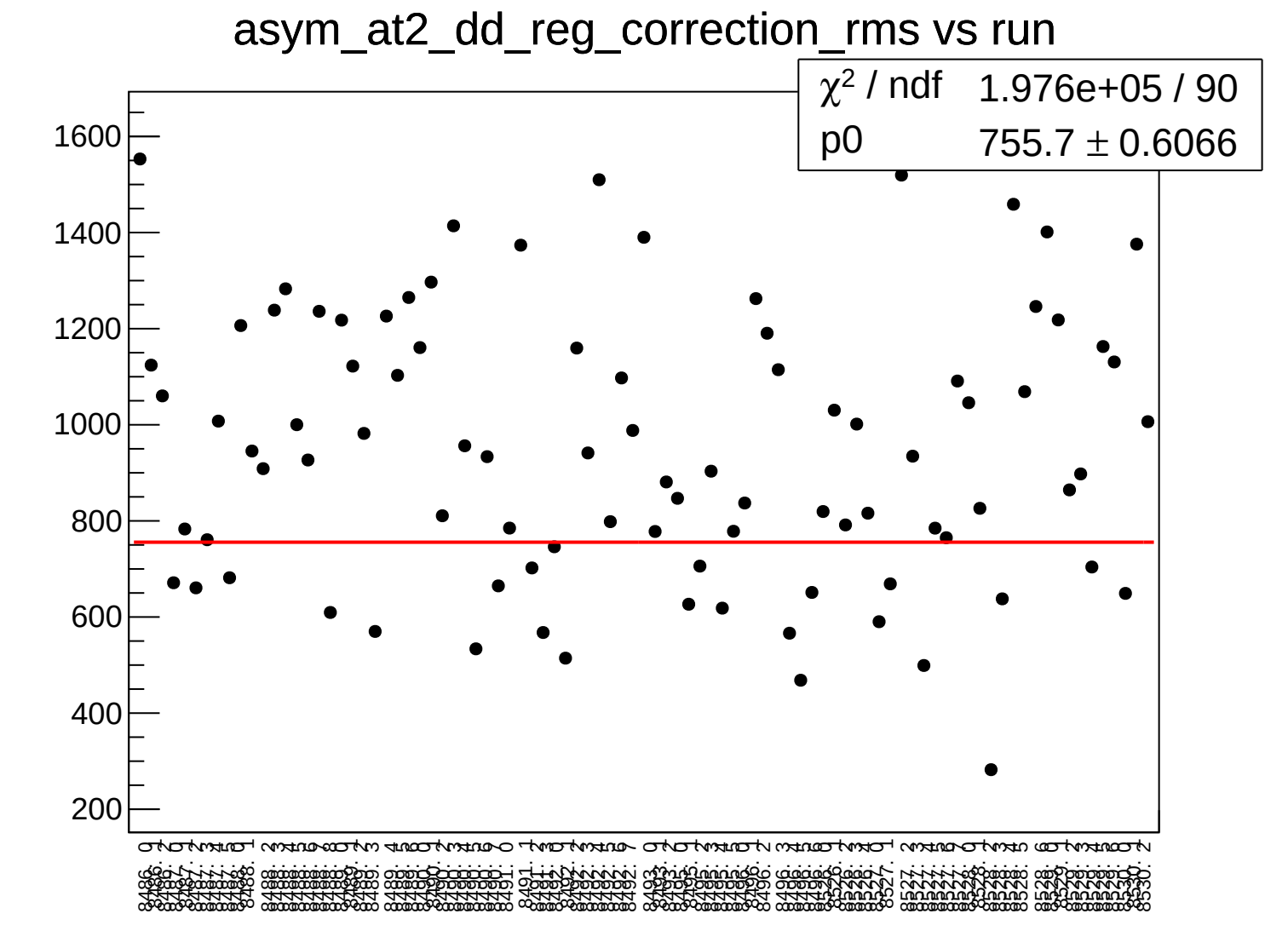

reg_asym_at2_dd_mean vs run
×10^3
χ² / ndf 70.44 / 90
p0 1.777e+04 ± 3.328e+04
1000
500
0
−500
−1000
pull
Entries 91
Mean −9352
Std Dev 0
2
1
0
−1
−2

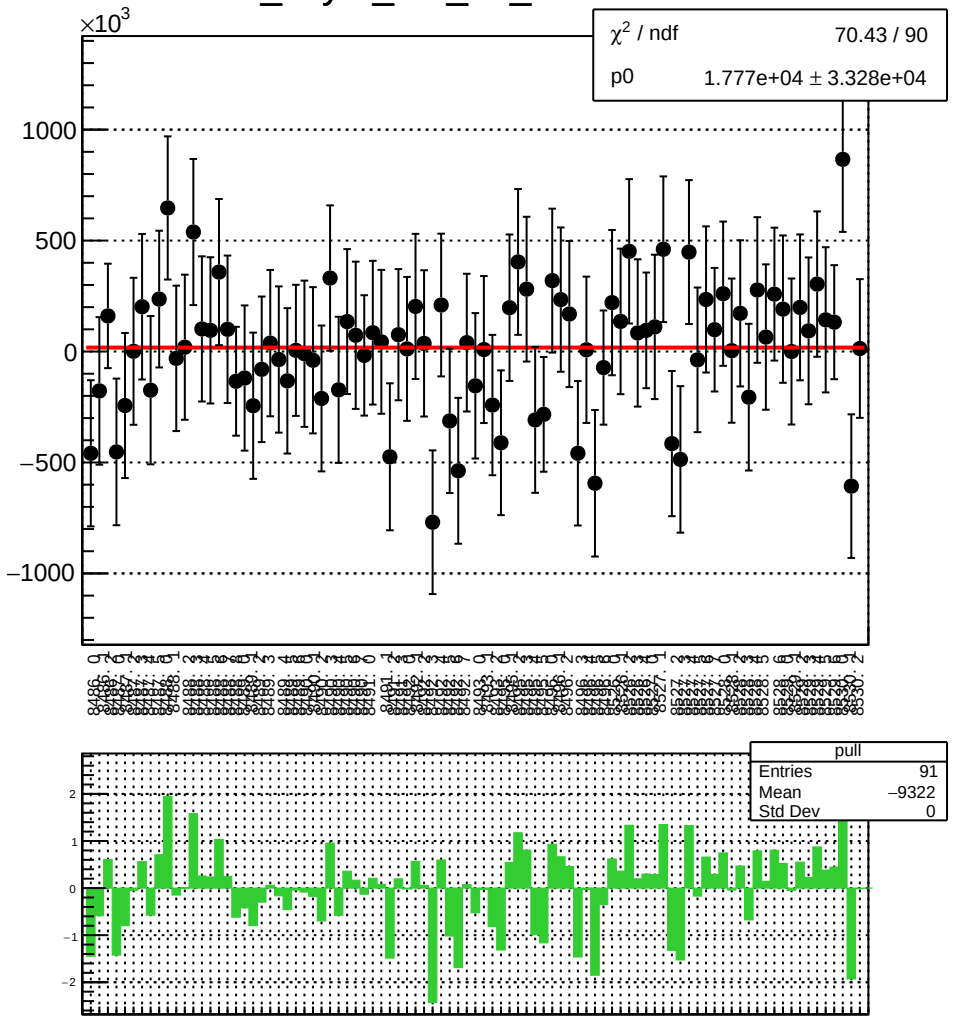

pull1D
Entries 91
Mean −0.0003598
Std Dev 0.8798
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

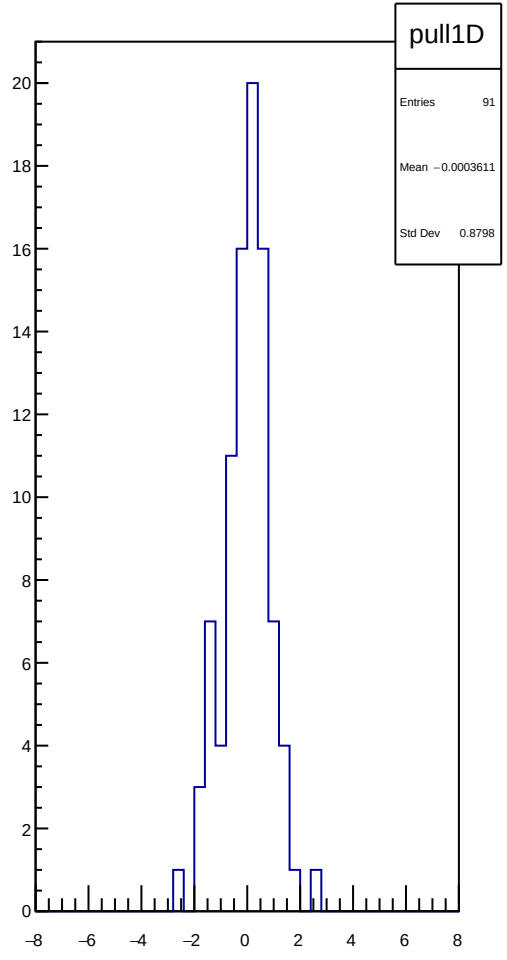

reg_asym_at2_dd_rms vs run
χ² / ndf 98.13 / 90
p0 3.113e+04 ± 23.53
32000
31800
31600
31400
31200
31000
30800
30600
30400
30200

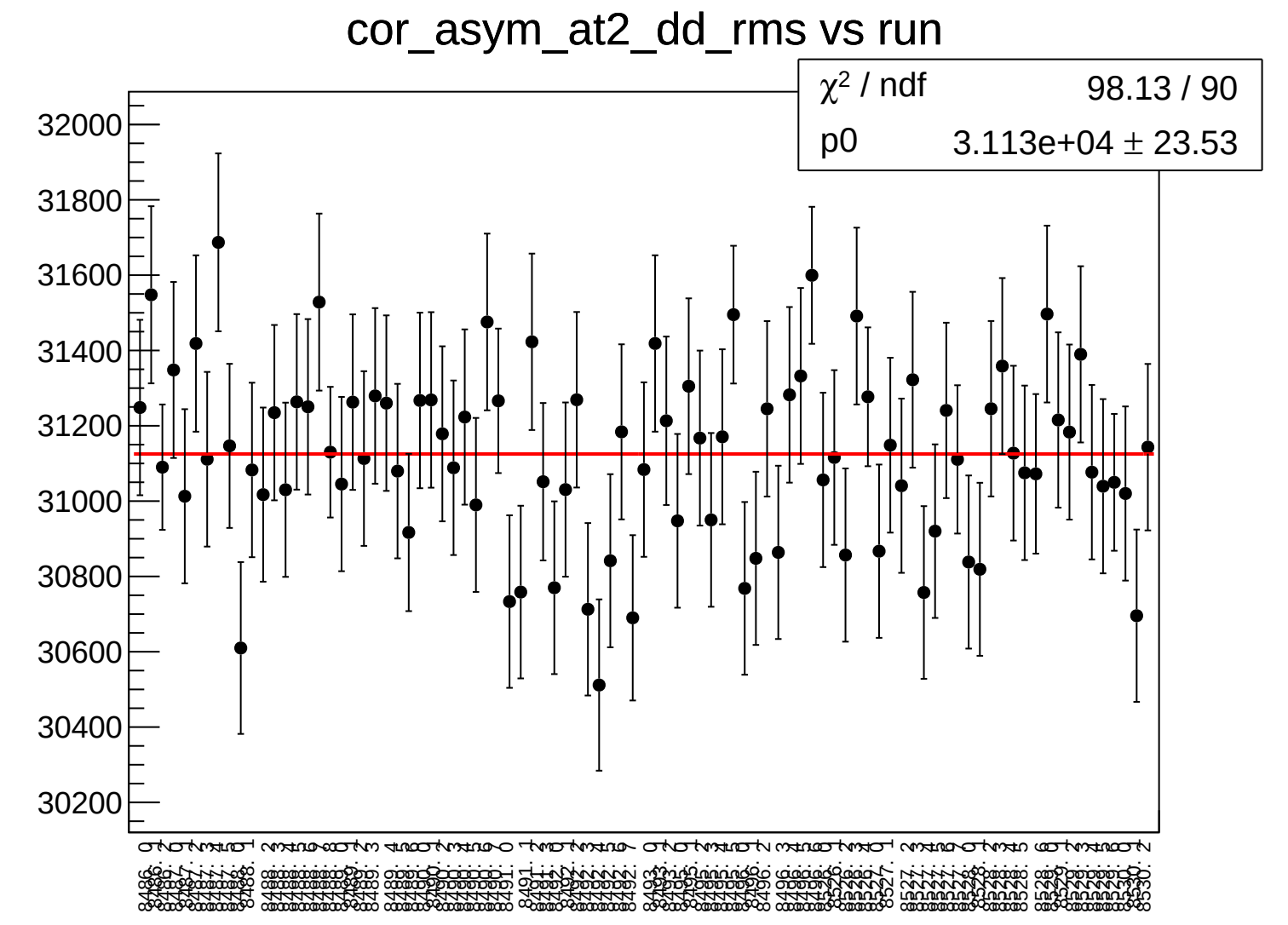

asym_at2_dd_reg_correction_mean vs run
χ^2 / ndf 75.49 / 90
p0 1960 ± 857.9
pull
Entries 91
Mean −42.68
Std Dev 0

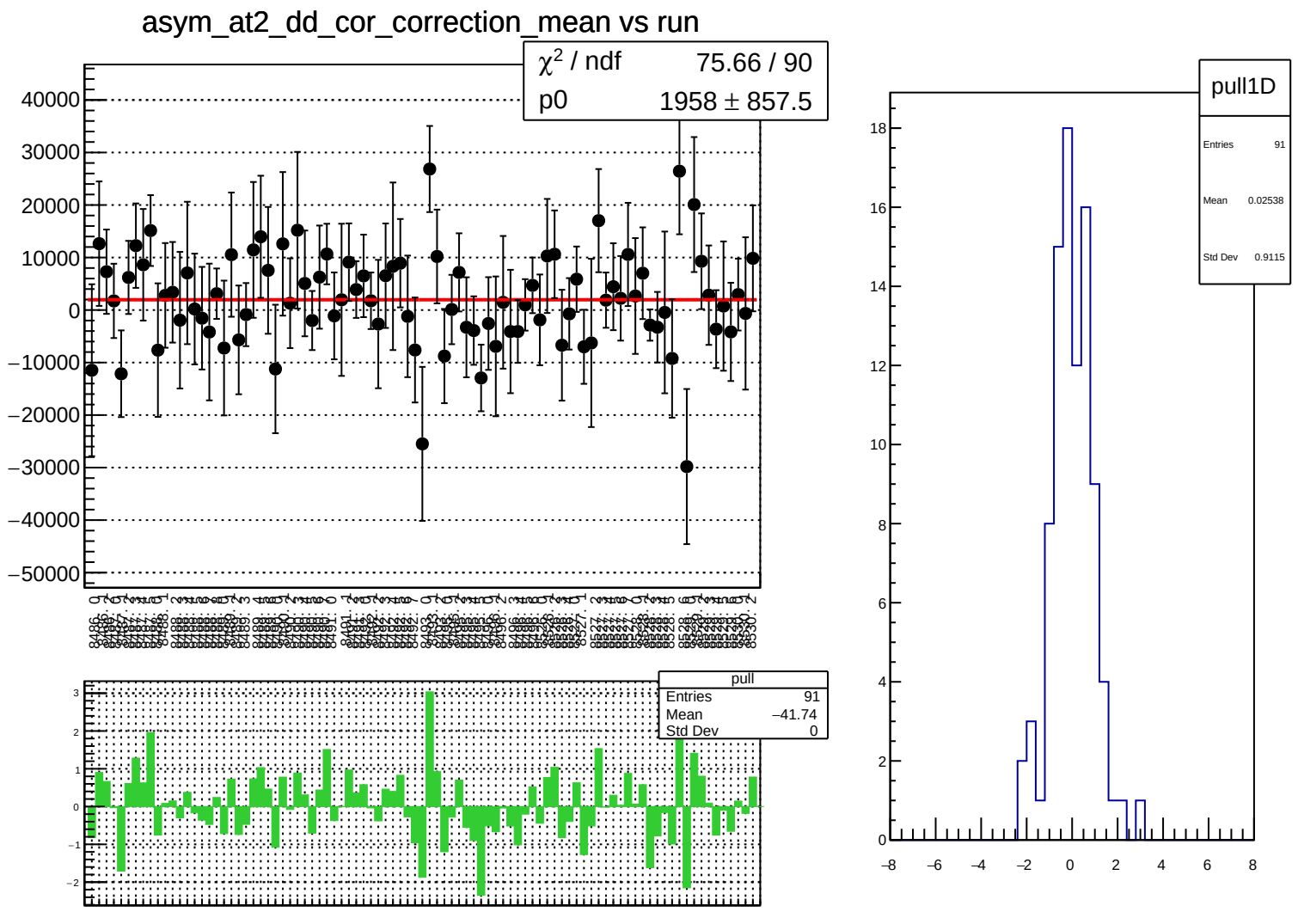

pull1D
Entries 91
Mean 0.02528
Std Dev 0.9104

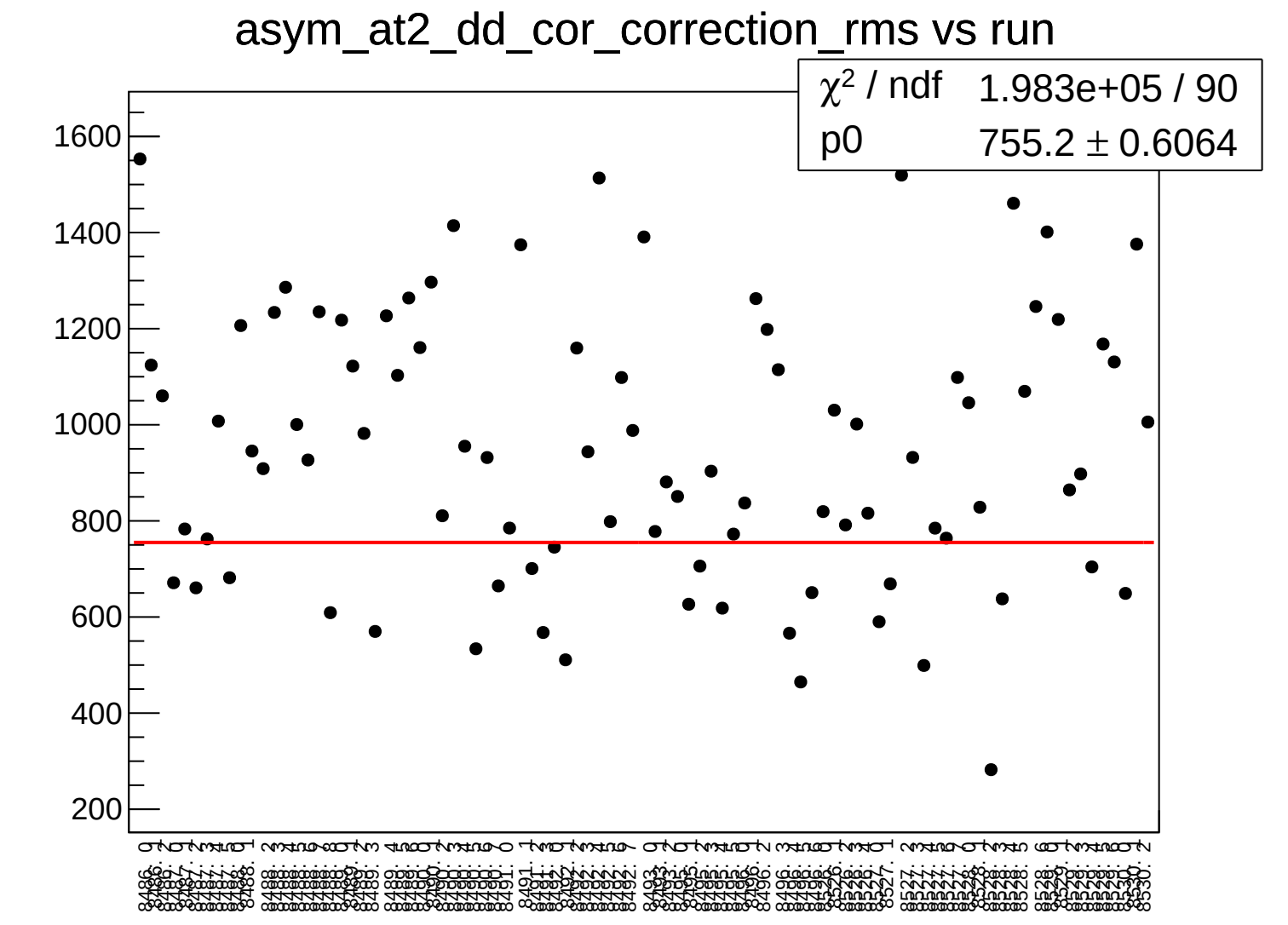

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 1.976e+05 / 90
p0 755.7 ± 0.6066
1600
1400
1200
1000
800
600
400
200

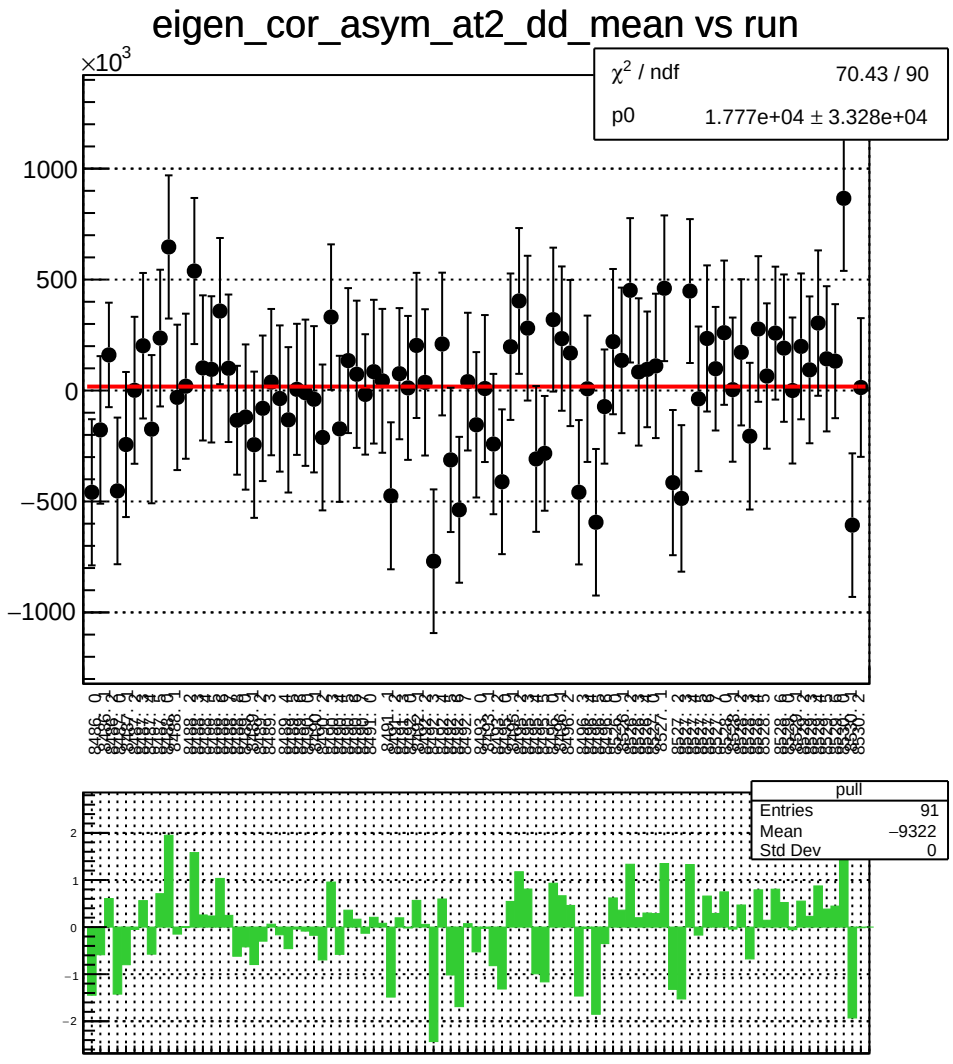

cor_asym_at2_dd_mean vs run
×10^3
χ² / ndf 70.43 / 90
p0 1.777e+04 ± 3.328e+04
1000
500
0
−500
−1000
pull
Entries 91
Mean −9322
Std Dev 0
2
1
0
−1
−2

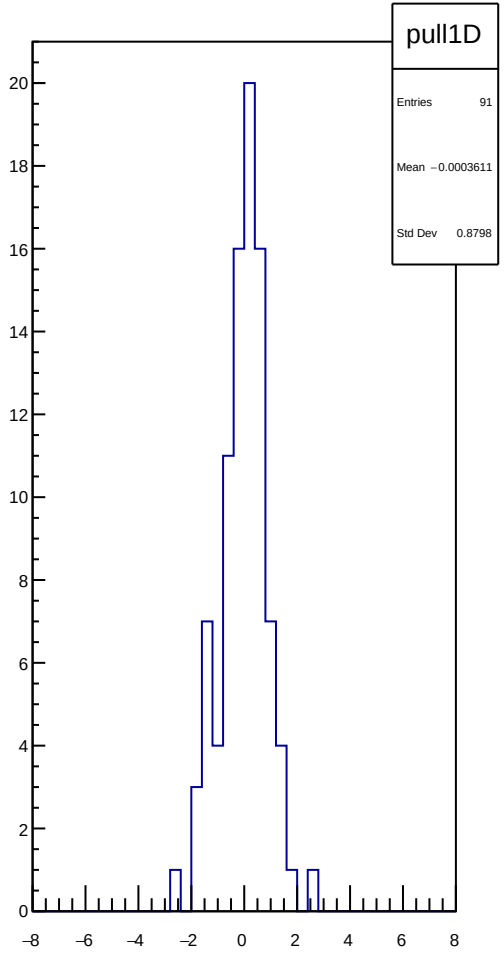

pull1D
Entries 91
Mean −0.0003611
Std Dev 0.8798
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

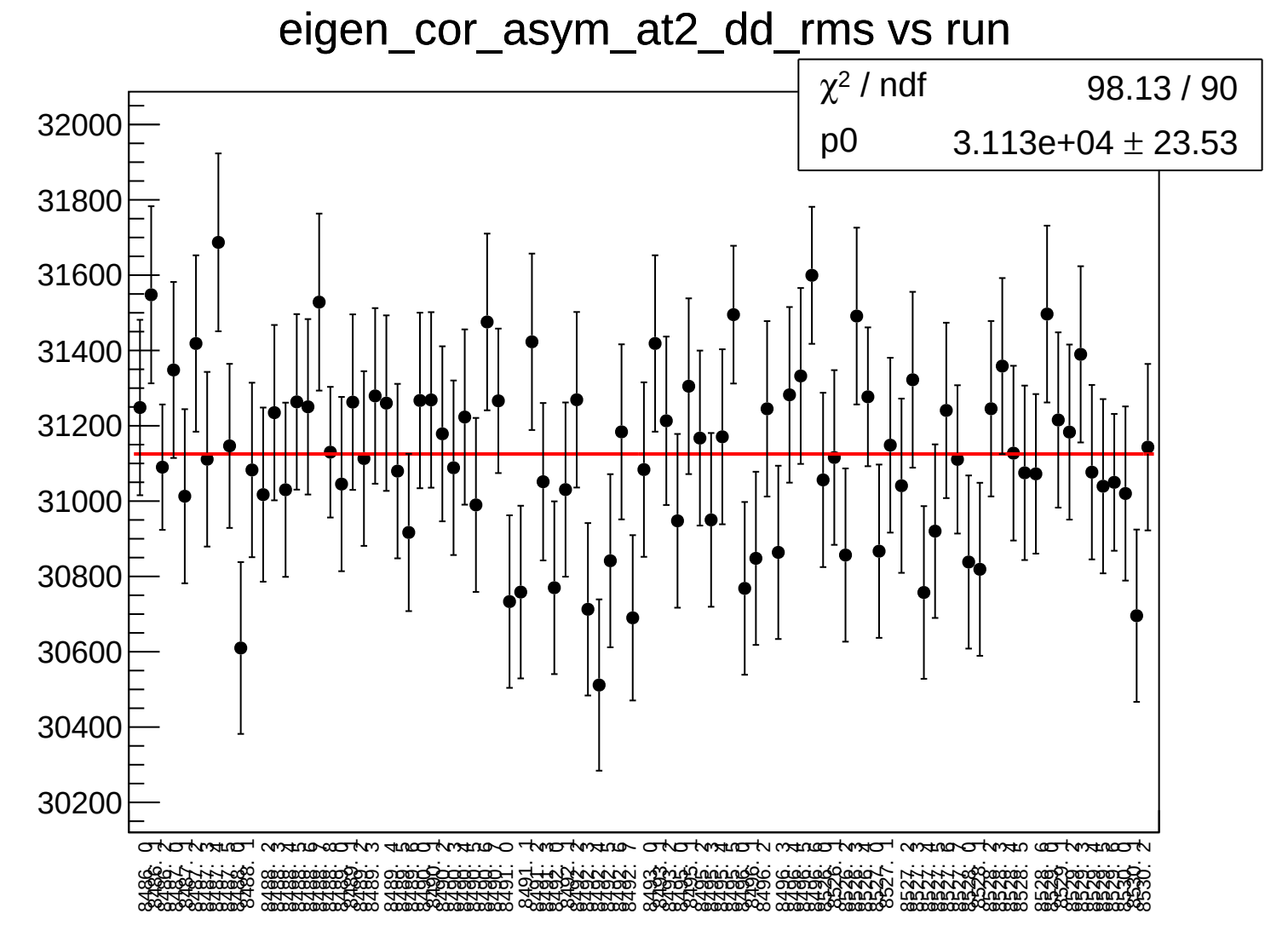

cor_asym_at2_dd_rms vs run
χ² / ndf 98.13 / 90
p0 3.113e+04 ± 23.53
32000
31800
31600
31400
31200
31000
30800
30600
30400
30200

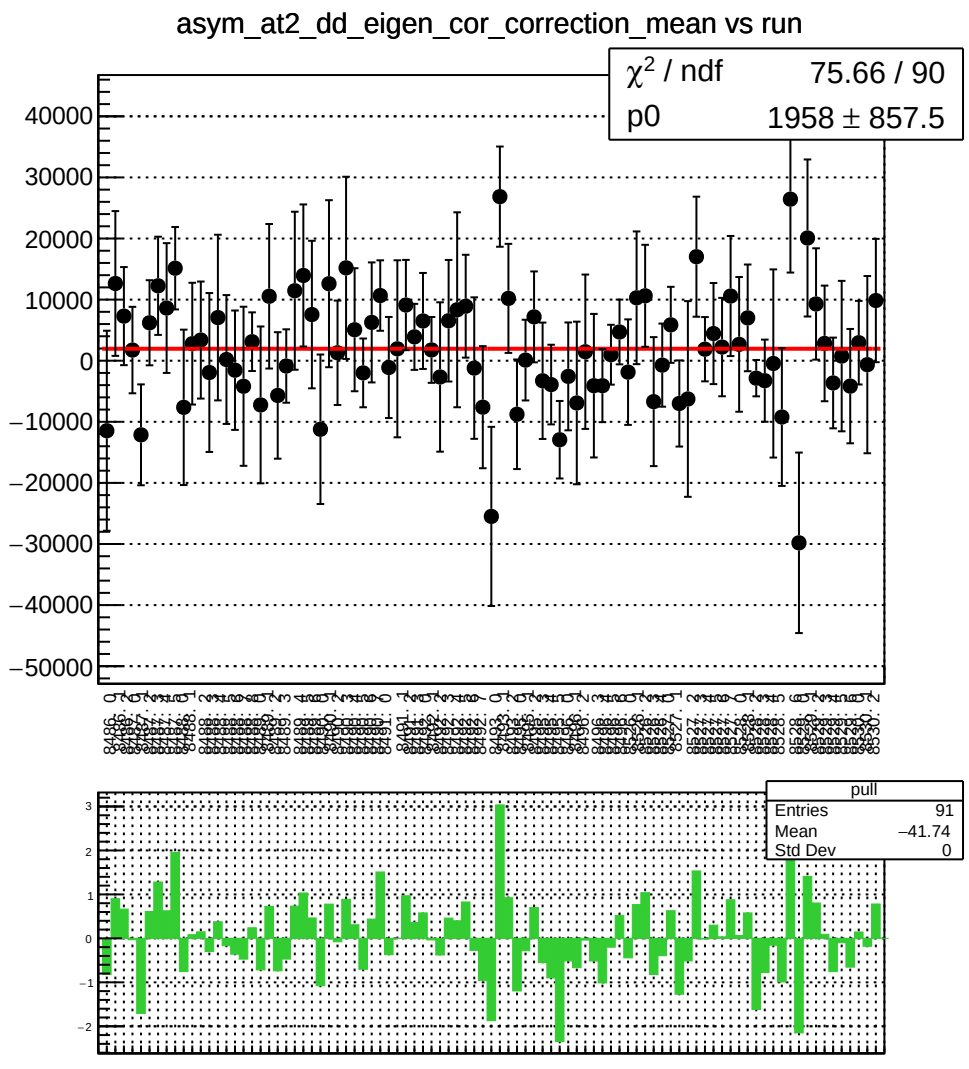

asym_at2_dd_cor_correction_mean vs run
χ² / ndf 75.66 / 90
p0 1958 ± 857.5
pull
Entries 91
Mean −41.74
Std Dev 0
pull1D
Entries 91
Mean 0.02538
Std Dev 0.9115

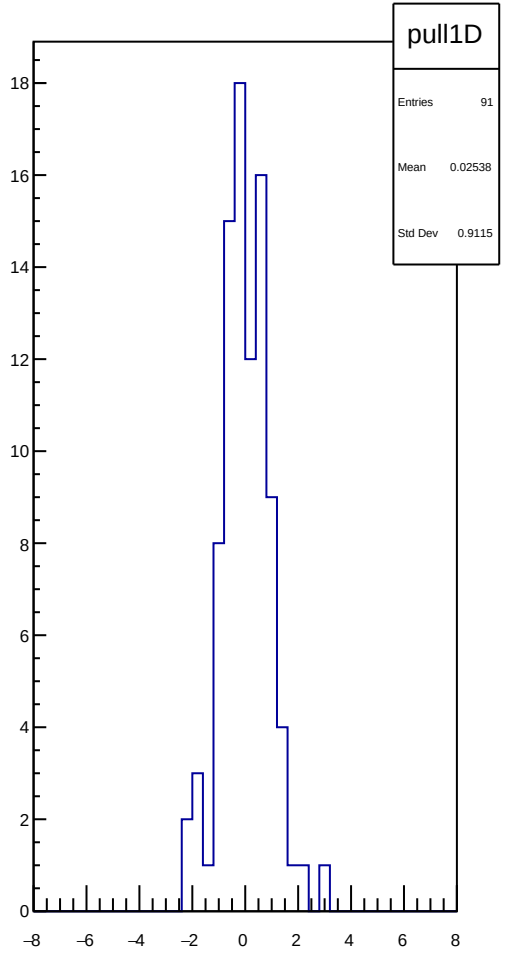

asym_at2_dd_cor_correction_rms vs run
χ² / ndf 1.983e+05 / 90
p0 755.2 ± 0.6064
1600
1400
1200
1000
800
600
400
200

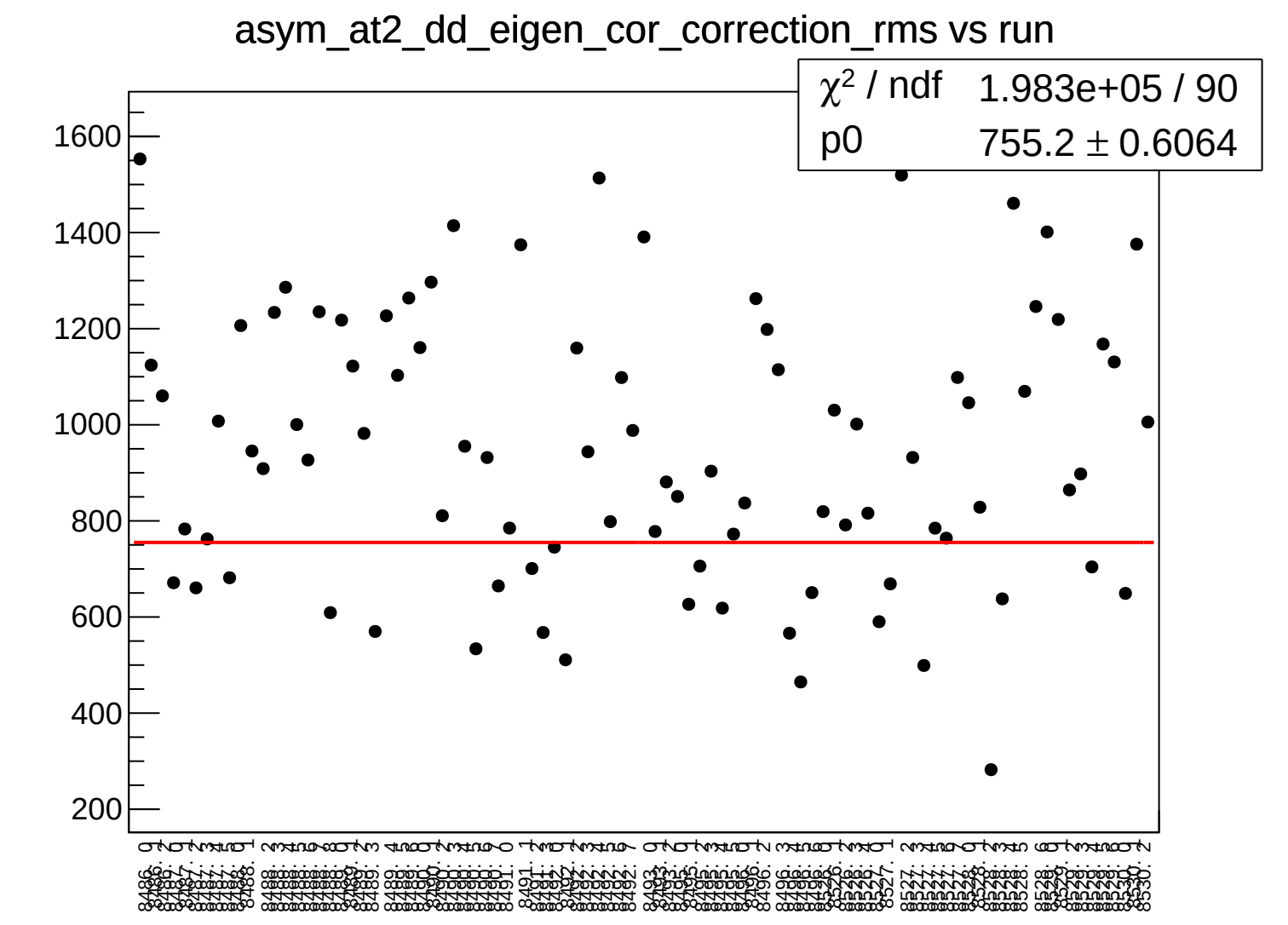

eigen_cor_asym_at2_dd_mean vs run
×10^3
χ² / ndf 70.43 / 90
p0 1.777e+04 ± 3.328e+04
1000
500
0
−500
−1000
pull
Entries 91
Mean −9322
Std Dev 0
2
1
0
−1
−2

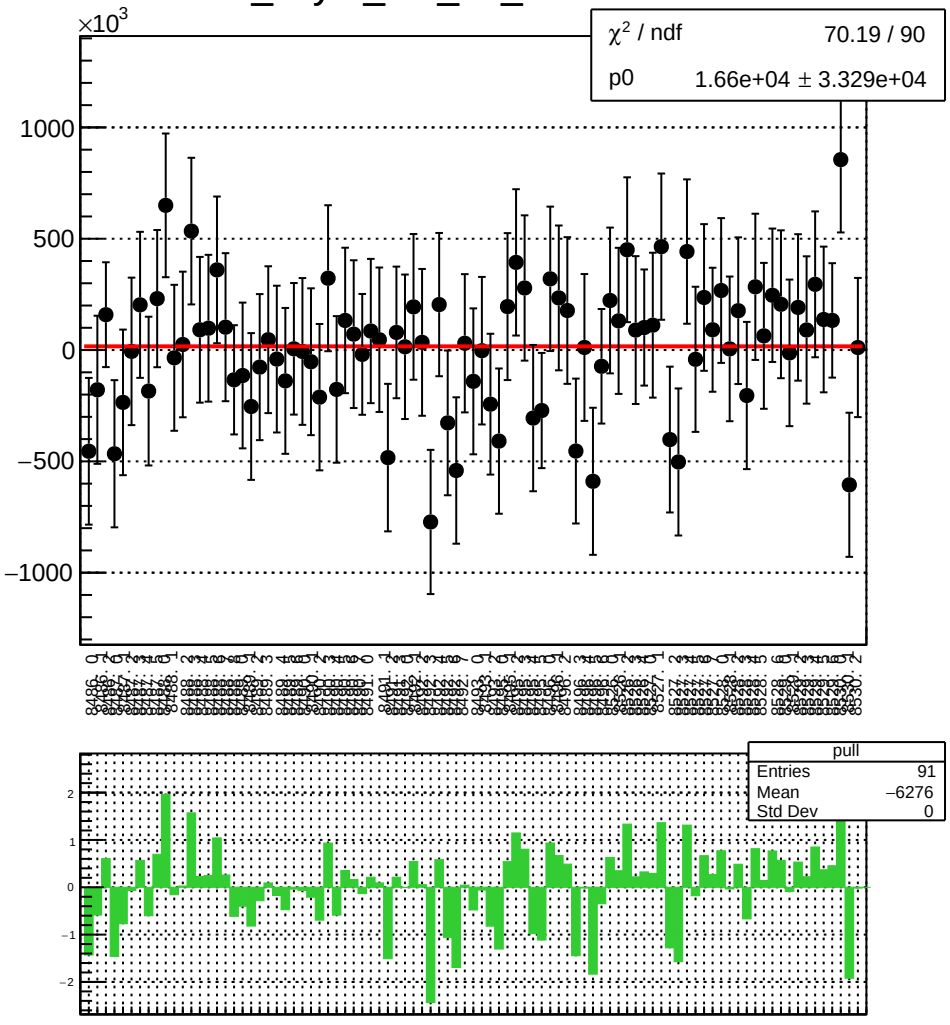

pull1D
Entries 91
Mean −0.0003611
Std Dev 0.8798
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

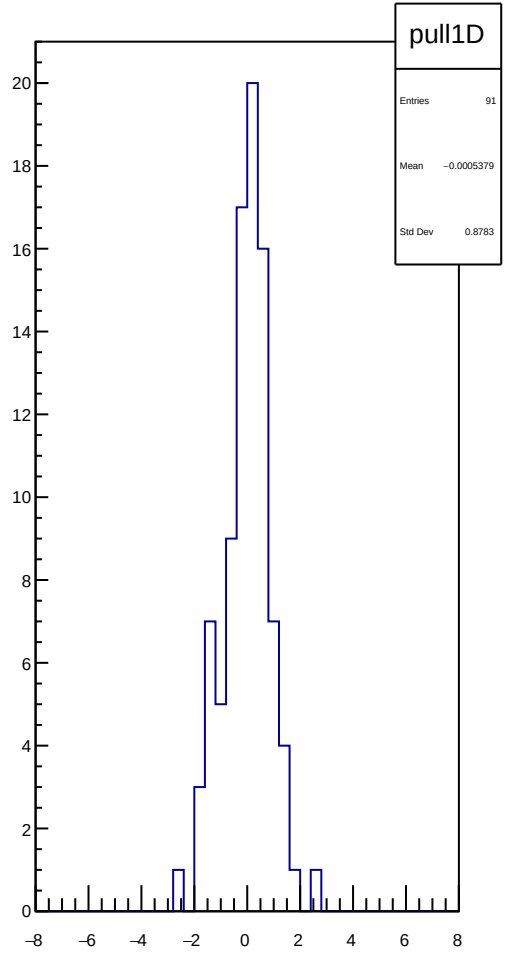

eigen_cor_asym_at2_dd_rms vs run
χ² / ndf 98.13 / 90
p0 3.113e+04 ± 23.53
32000
31800
31600
31400
31200
31000
30800
30600
30400
30200

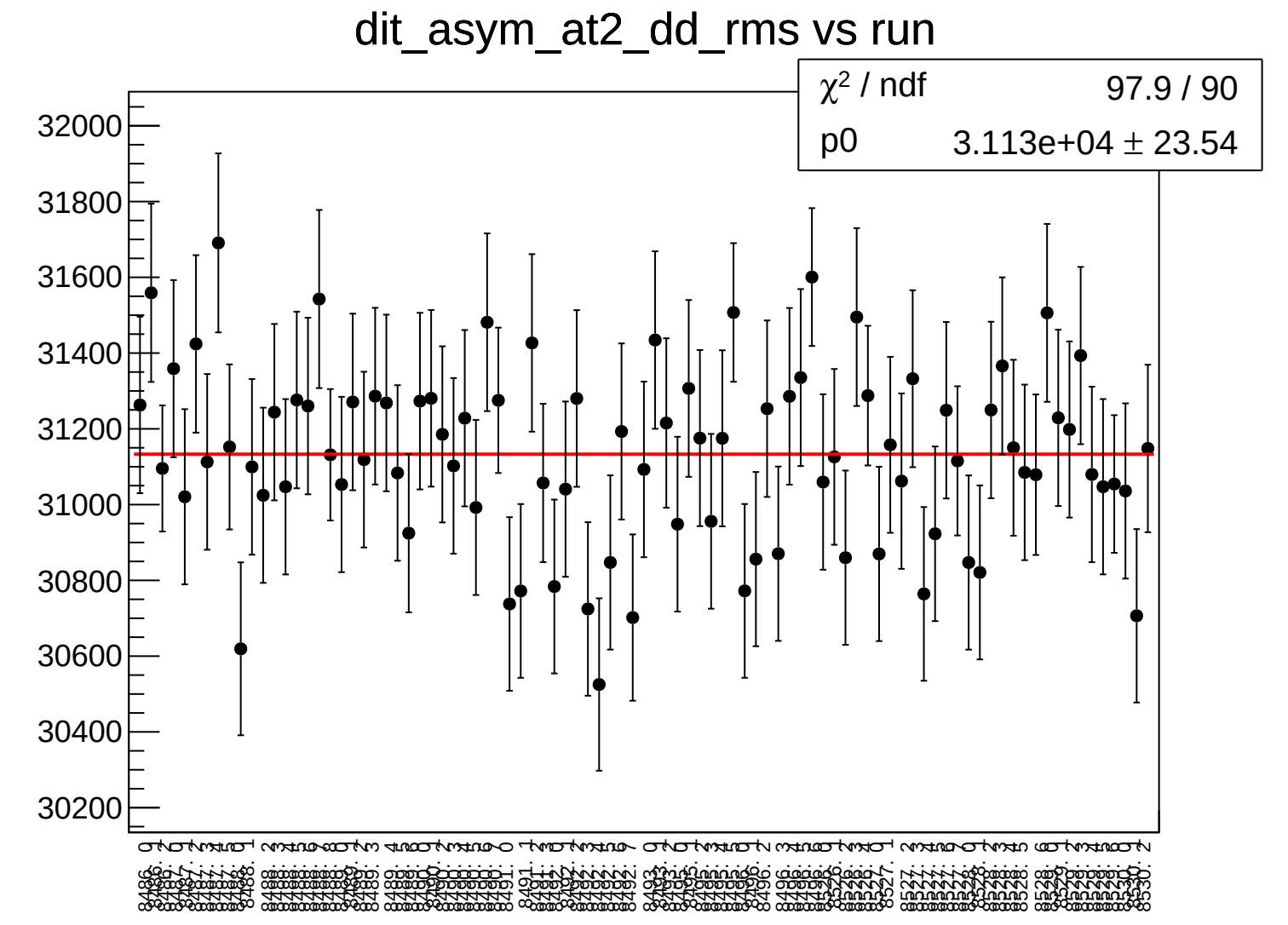

asym_at2_dd_eigen_cor_correction_mean vs run
χ² / ndf 75.66 / 90
p0 1958 ± 857.5
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 91
Mean −41.74
Std Dev 0
3
2
1
0
−1
−2

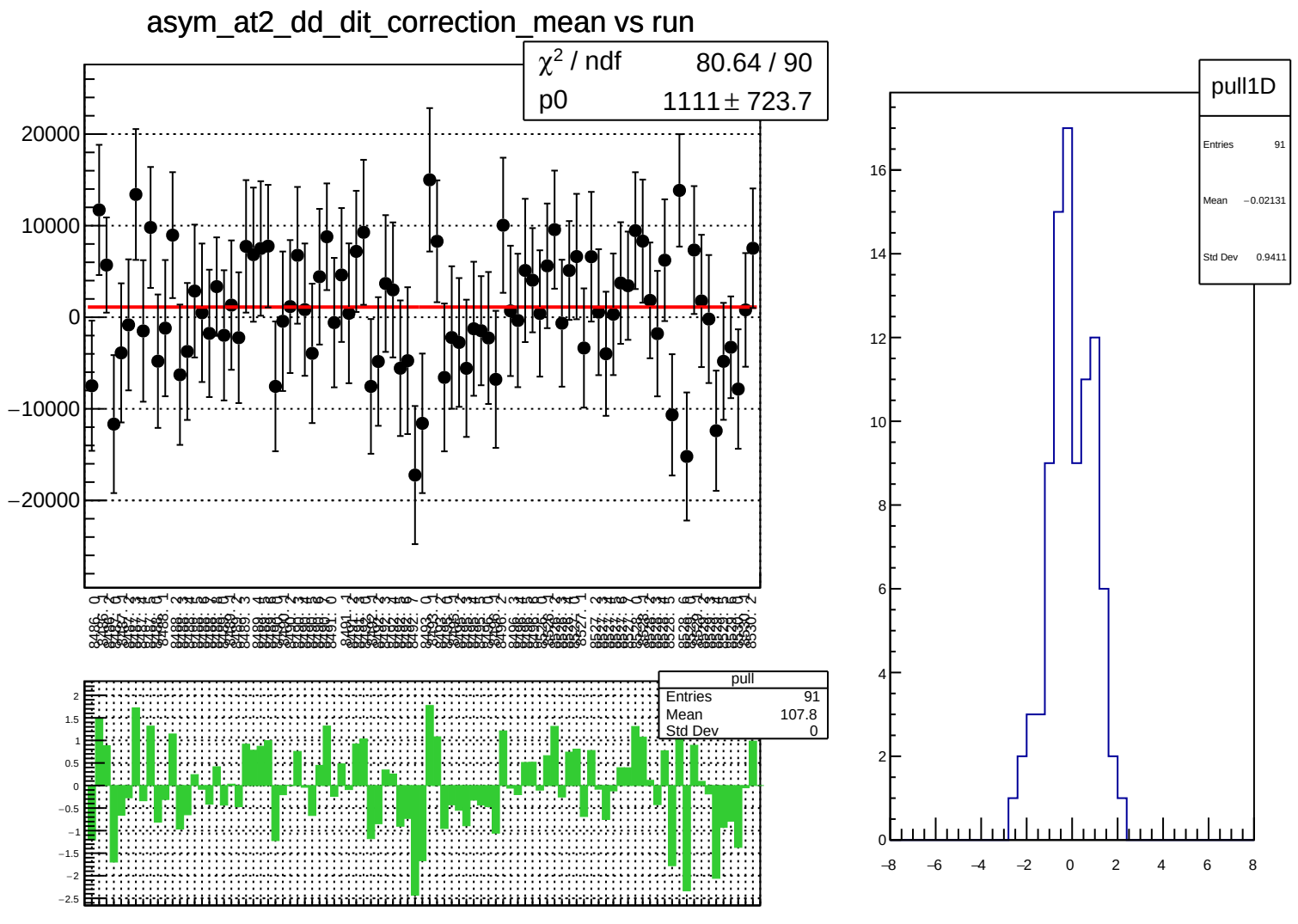

pull1D
Entries 91
Mean 0.02538
Std Dev 0.9115
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

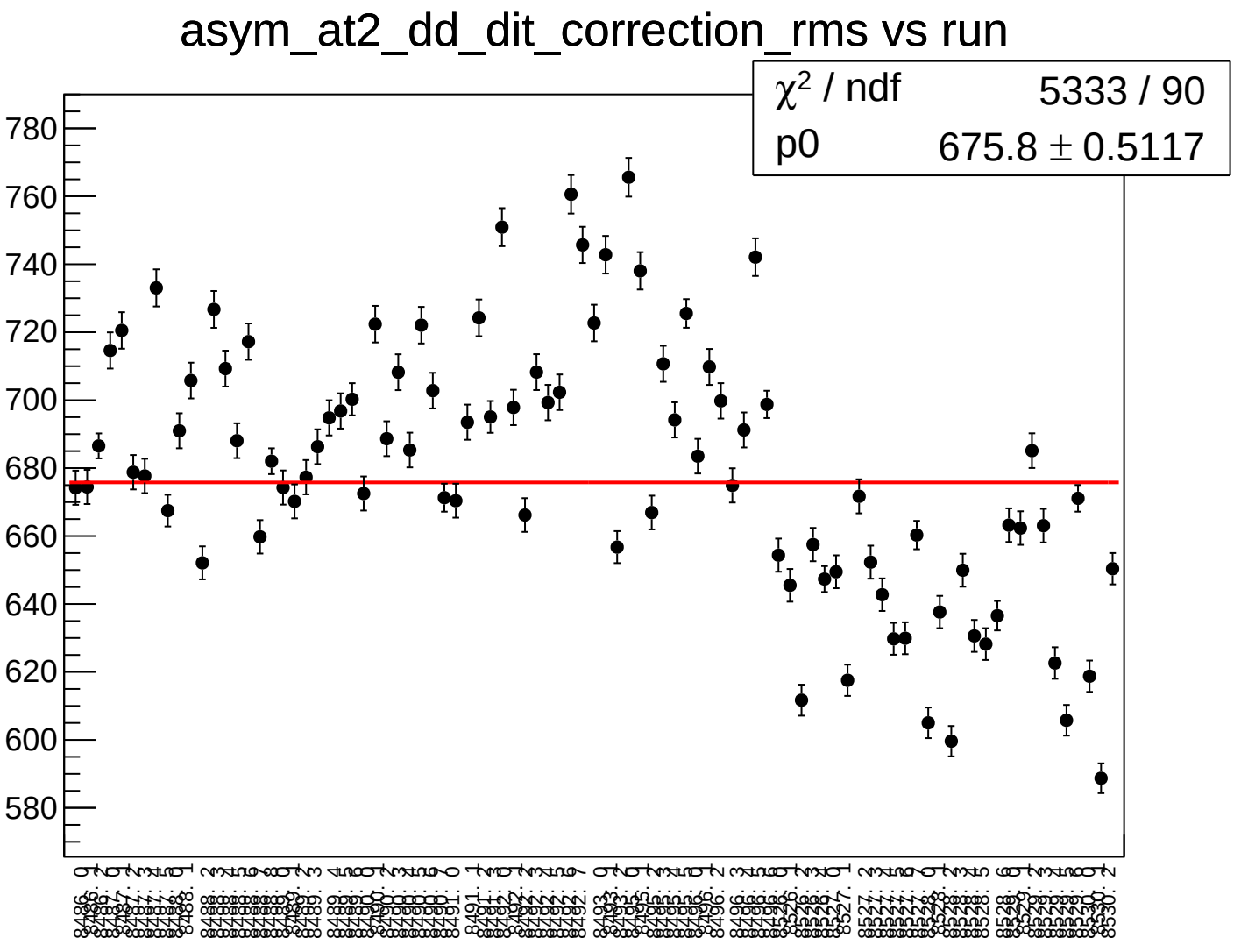

asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.983e+05 / 90
p0 755.2 ± 0.6064
1600
1400
1200
1000
800
600
400
200

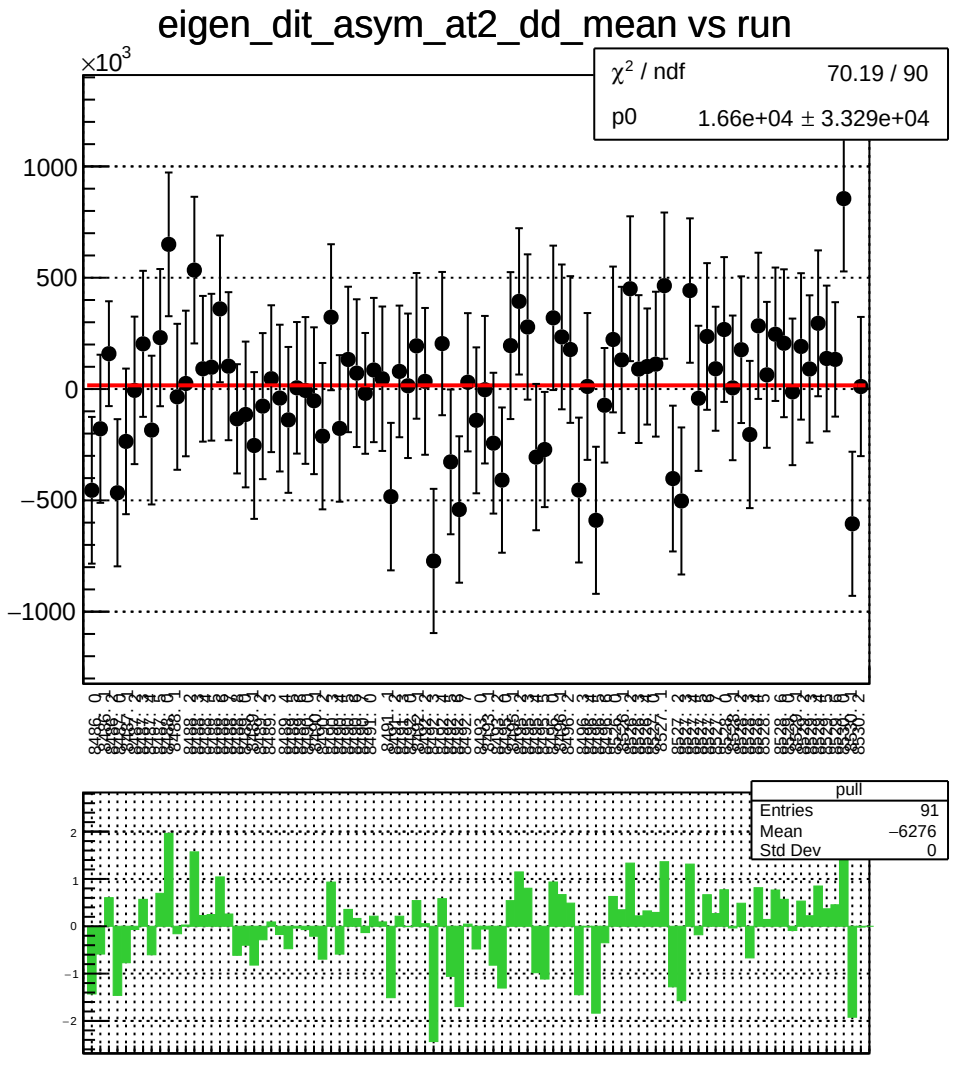

dit_asym_at2_dd_mean vs run
×10^3
χ² / ndf 70.19 / 90
p0 1.66e+04 ± 3.329e+04
1000
500
0
−500
−1000
pull
Entries 91
Mean −6276
Std Dev 0
2
1
0
−1
−2

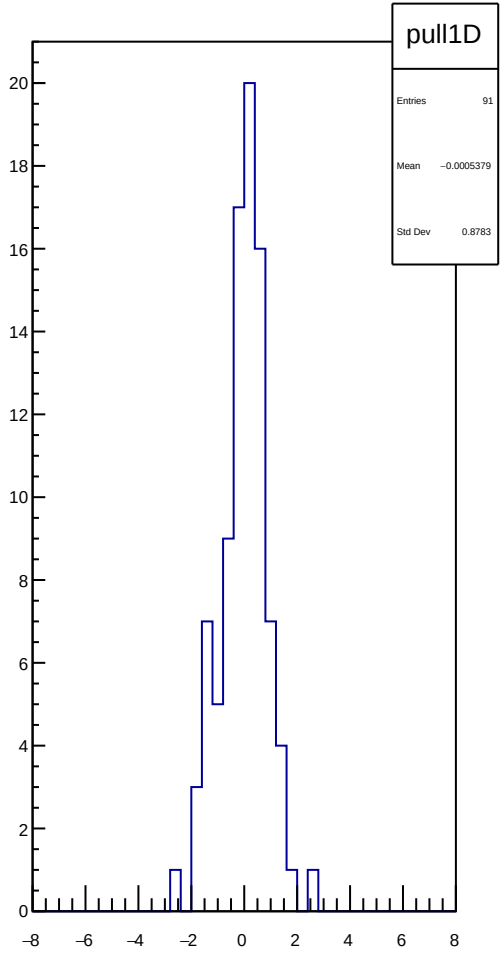

pull1D
Entries 91
Mean −0.0005379
Std Dev 0.8783
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

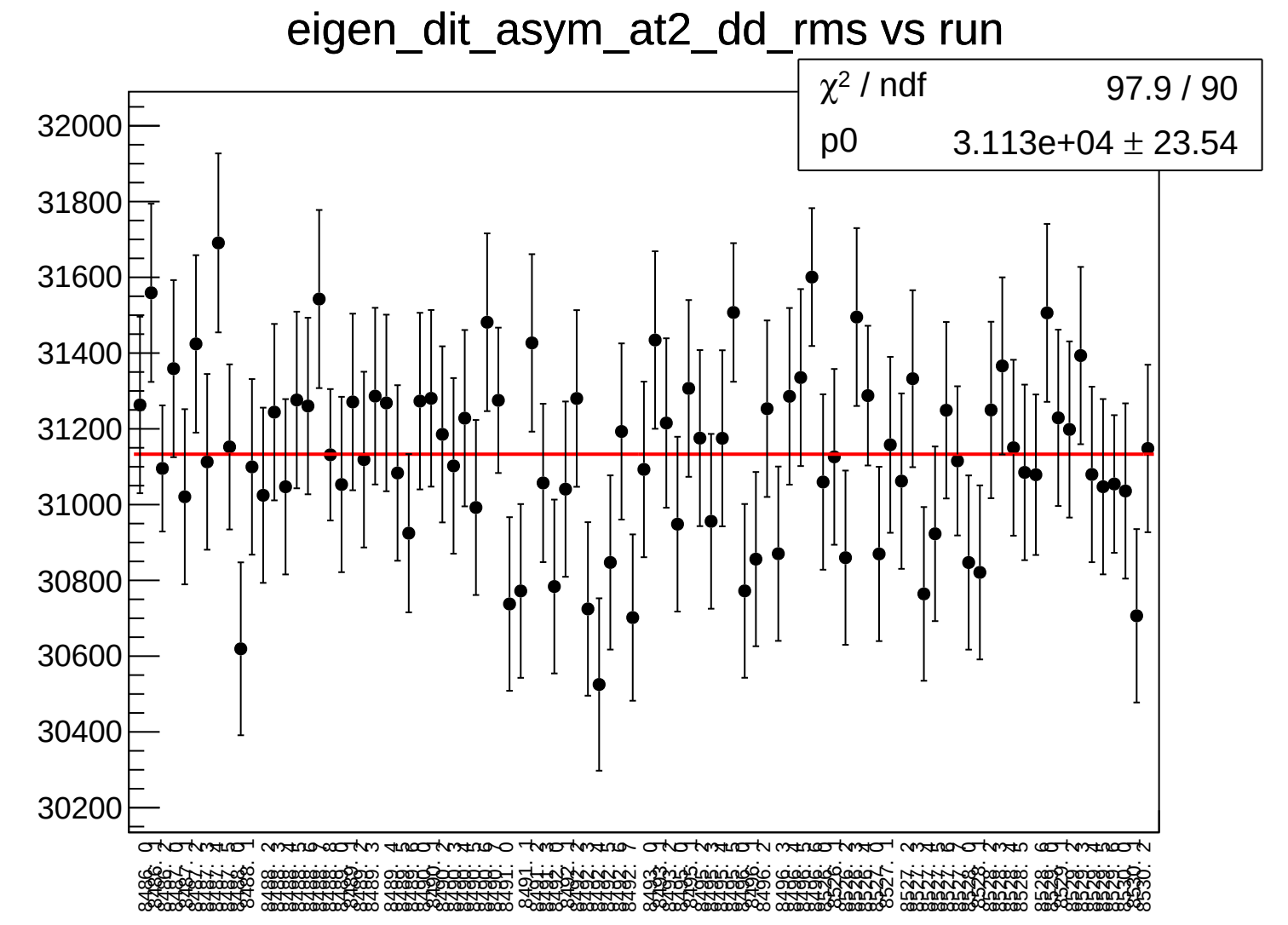

dit_asym_at2_dd_rms vs run
χ² / ndf 97.9 / 90
p0 3.113e+04 ± 23.54
32000
31800
31600
31400
31200
31000
30800
30600
30400
30200

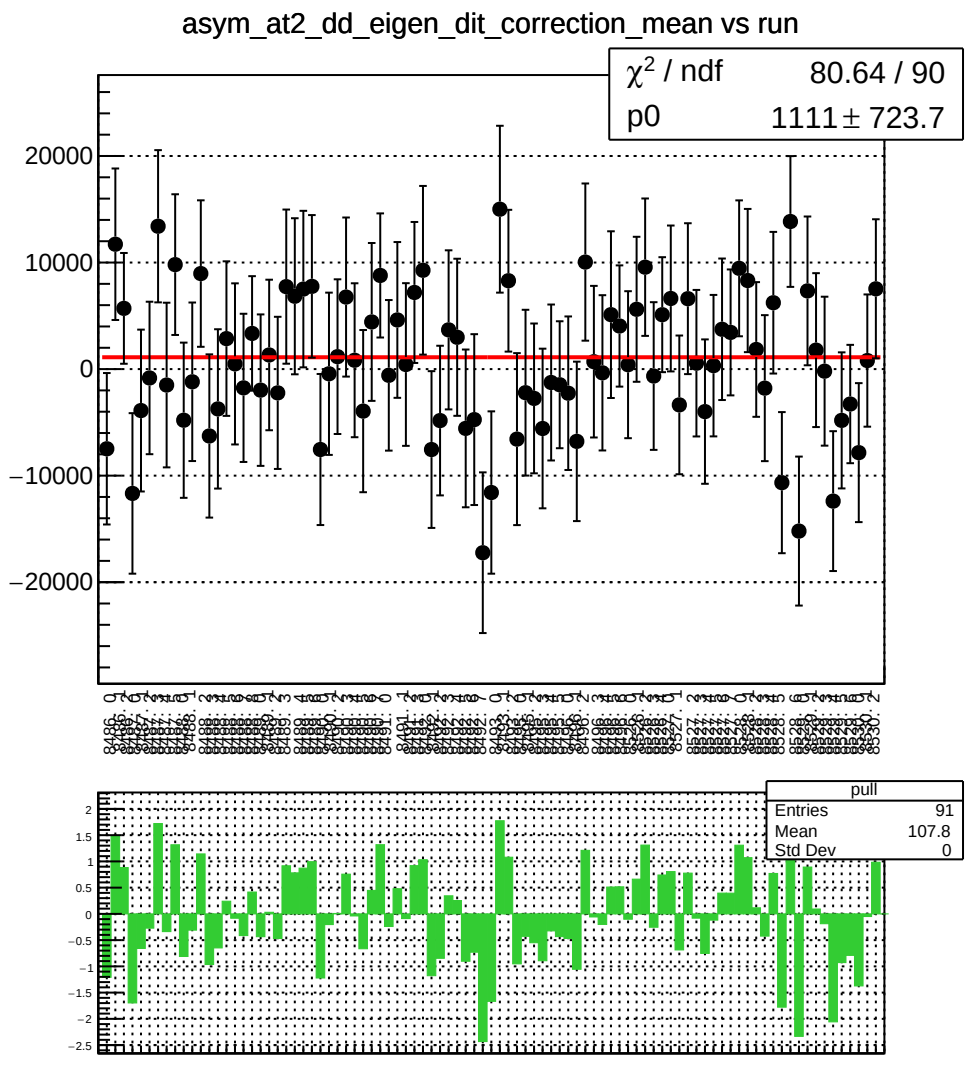

asym_at2_dd_dit_correction_mean vs run
χ² / ndf 80.64 / 90
p0 1111 ± 723.7
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 107.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 91
Mean −0.02131
Std Dev 0.9411
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

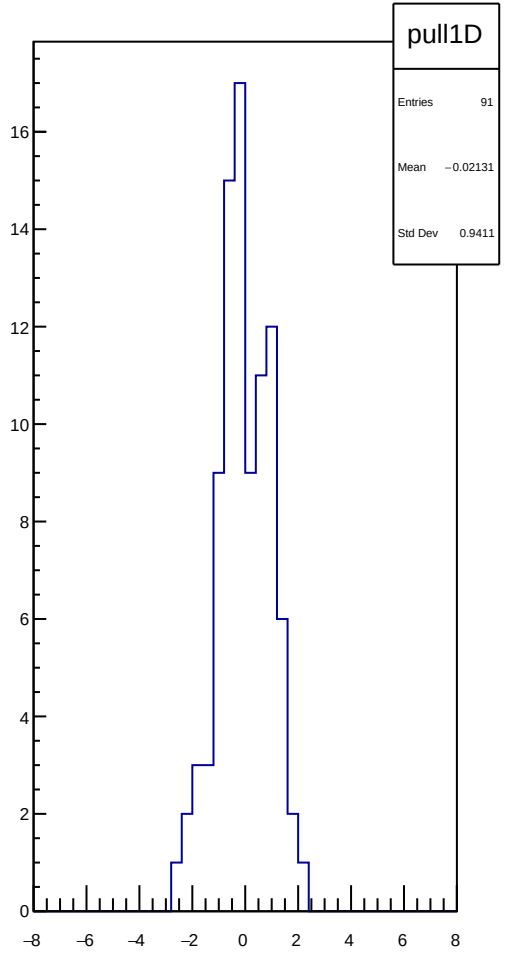

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 5333 / 90
p0 675.8 ± 0.5117
780
760
740
720
700
680
660
640
620
600
580

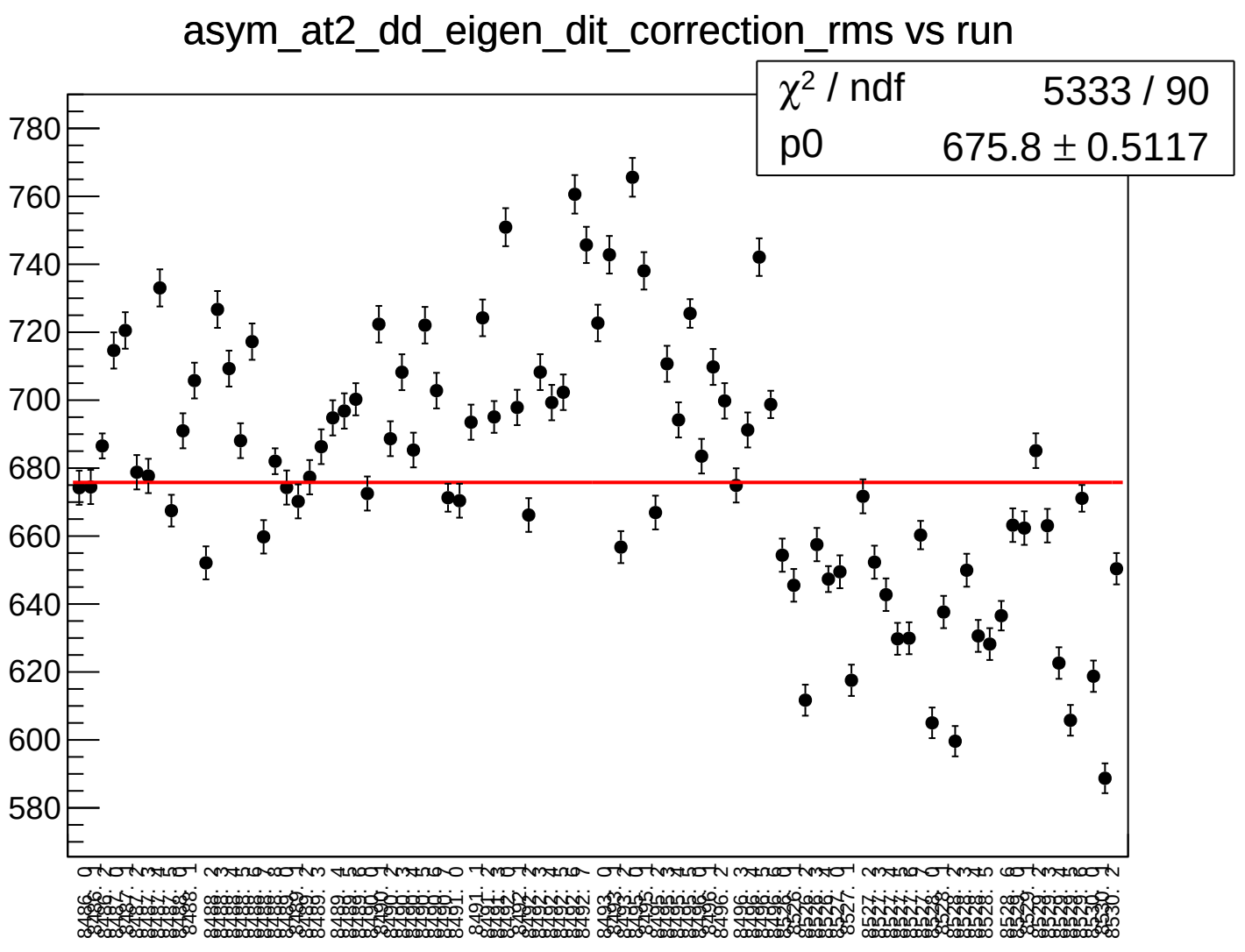

eigen_dit_asym_at2_dd_mean vs run
×10^3
χ² / ndf 70.19 / 90
p0 1.66e+04 ± 3.329e+04
1000
500
0
−500
−1000
pull
Entries 91
Mean −6276
Std Dev 0
2
1
0
−1
−2

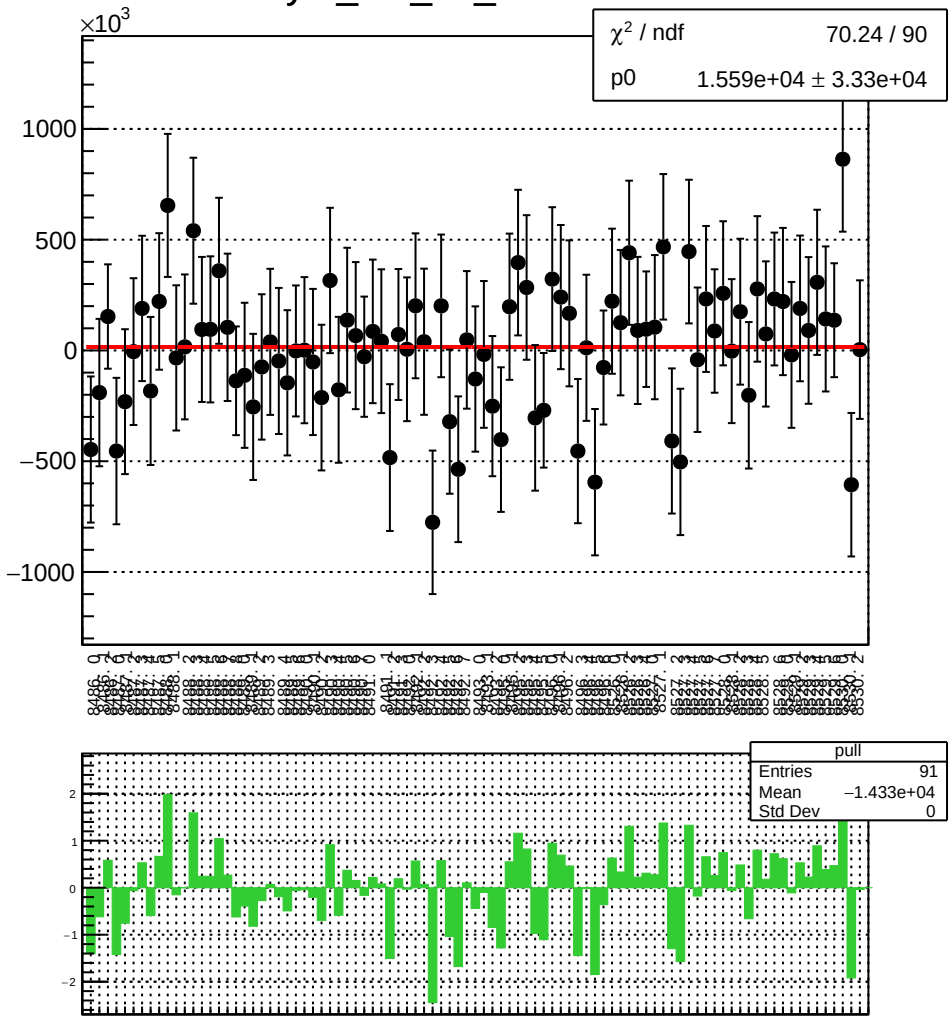

pull1D
Entries 91
Mean −0.0005379
Std Dev 0.8783
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

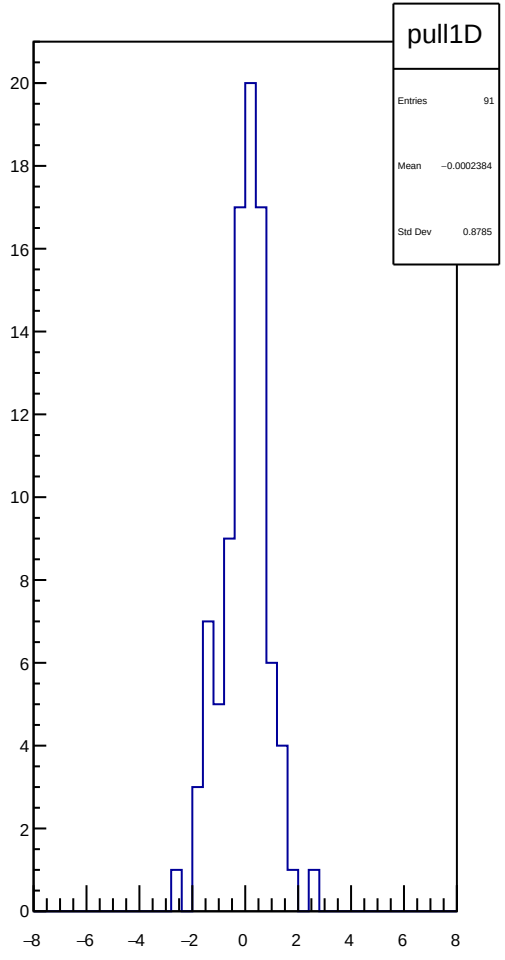

eigen_dit_asym_at2_dd_rms vs run
χ² / ndf 97.9 / 90
p0 3.113e+04 ± 23.54
32000
31800
31600
31400
31200
31000
30800
30600
30400
30200


asym_at2_dd_eigen_dit_correction_mean vs run
χ² / ndf 80.64 / 90
p0 1111 ± 723.7
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 107.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

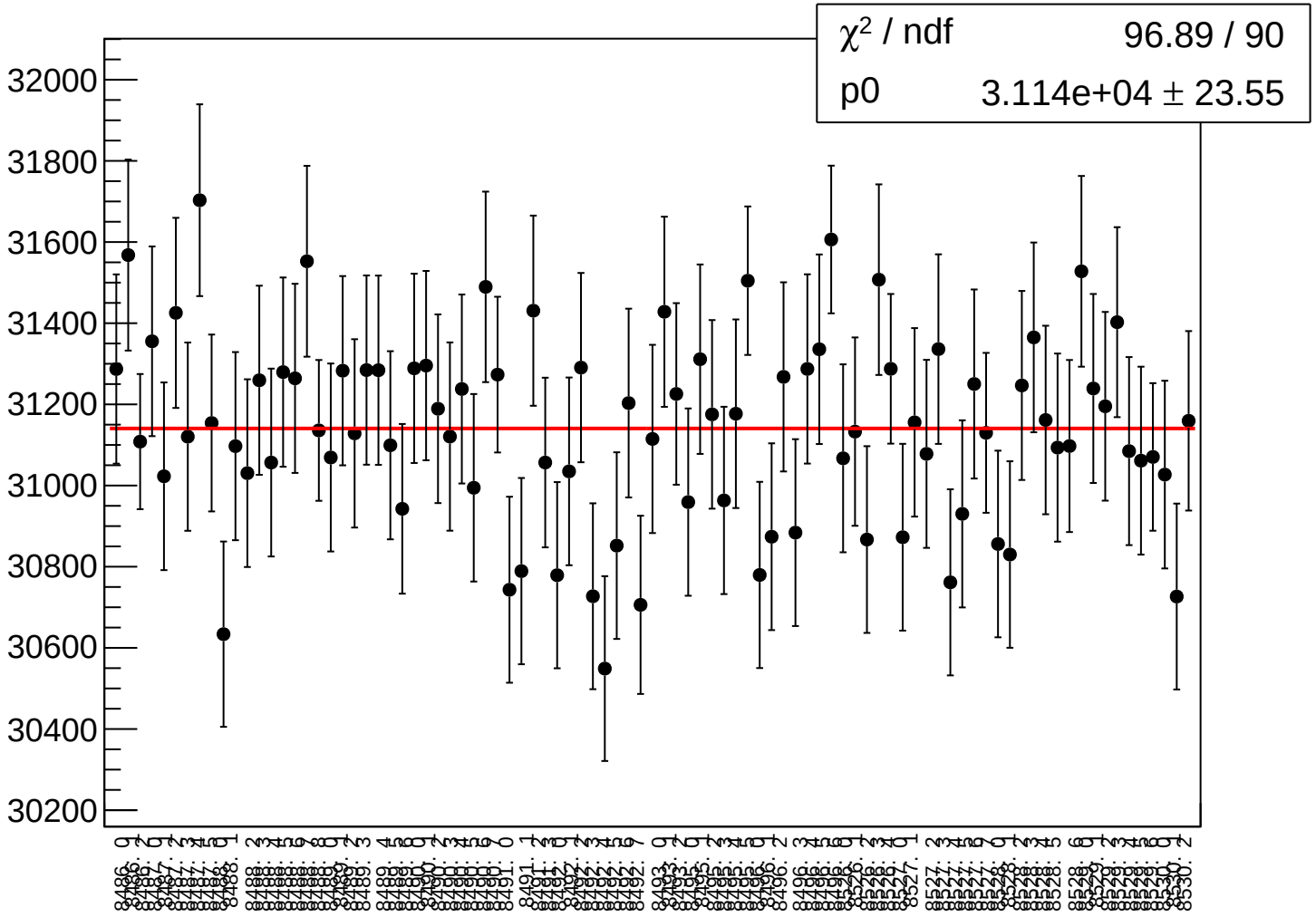

pull1D
Entries 91
Mean −0.02131
Std Dev 0.9411
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

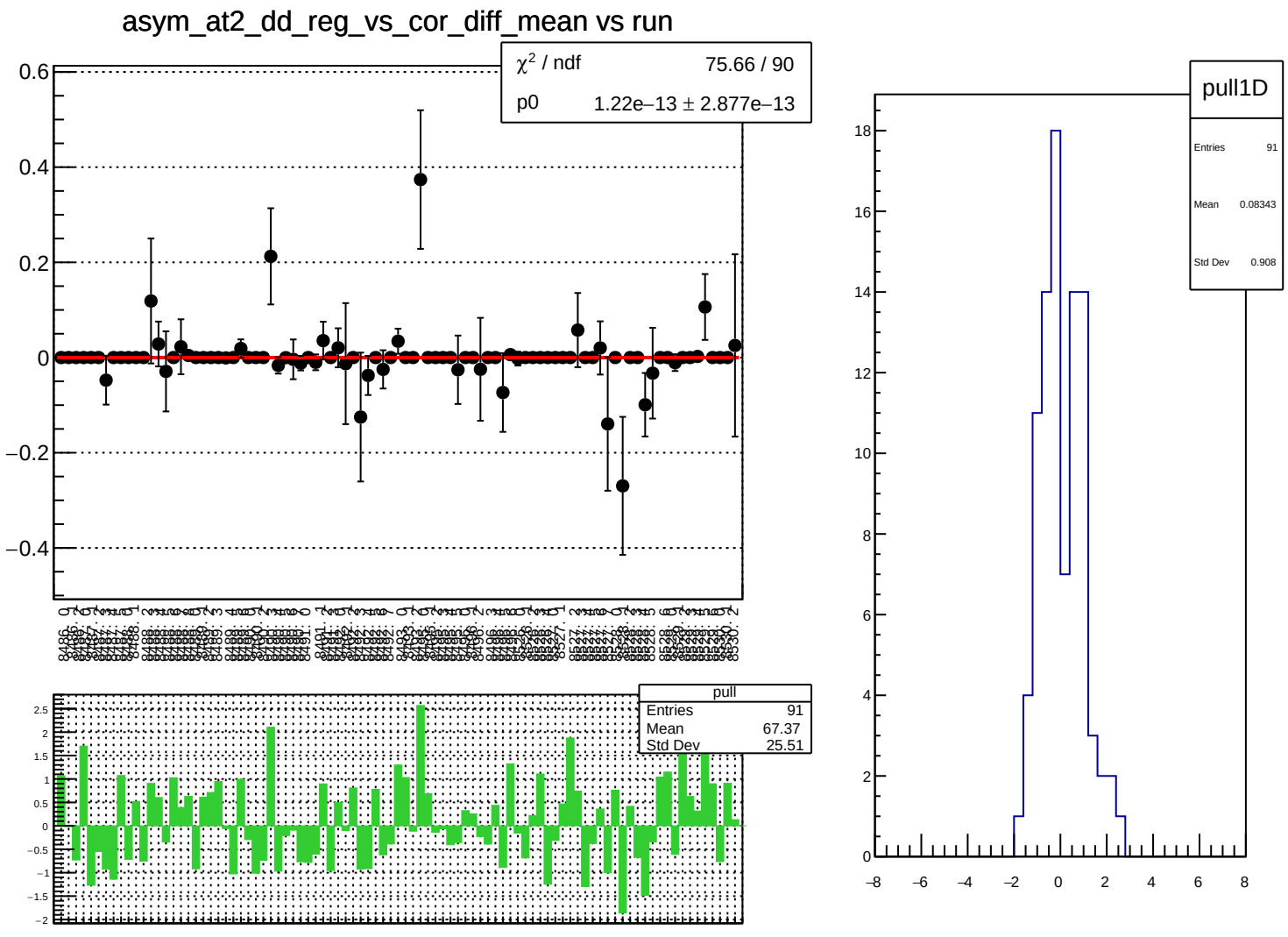

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 5333 / 90
p0 675.8 ± 0.5117
780
760
740
720
700
680
660
640
620
600
580

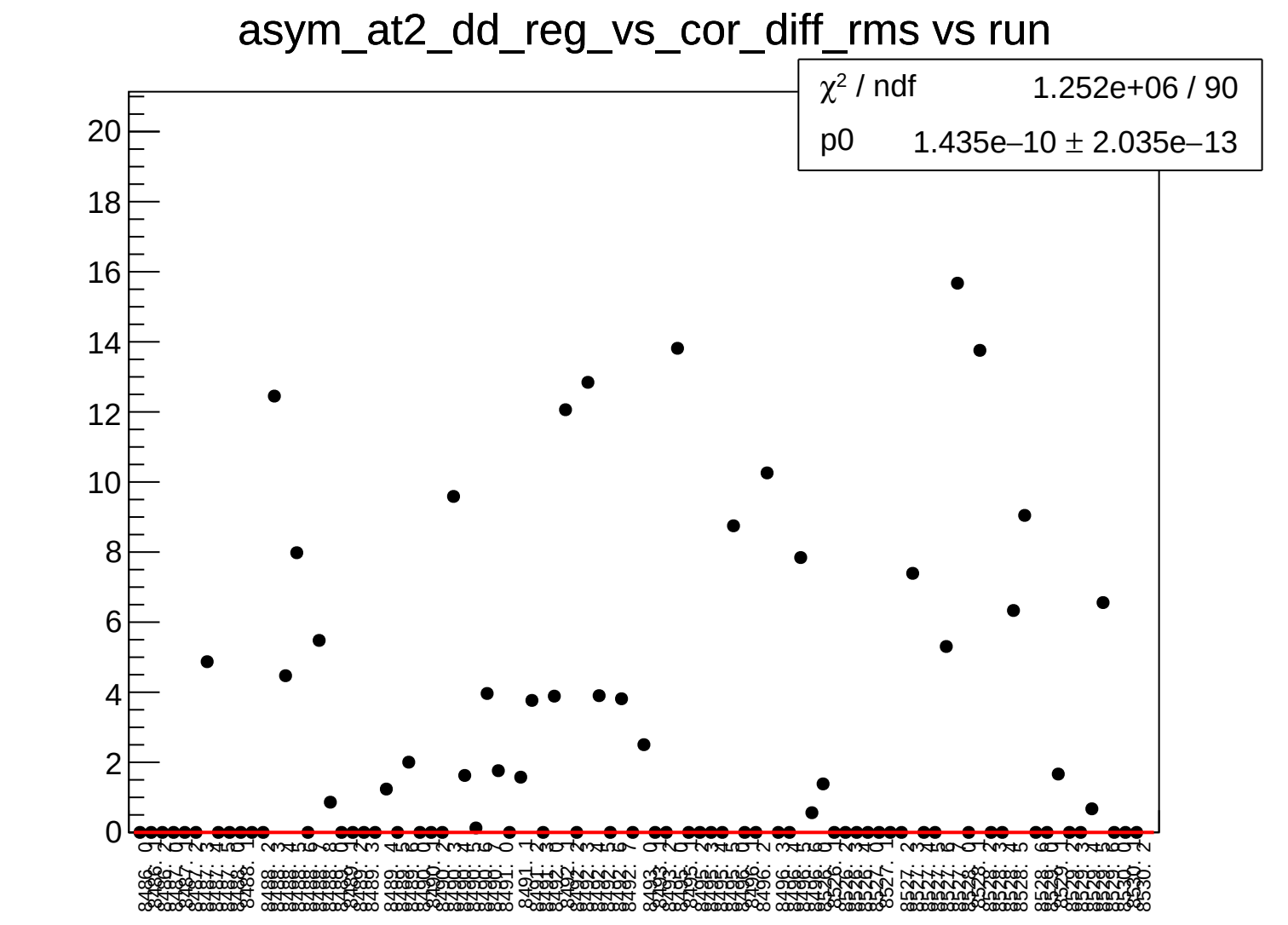

asym_at2_dd_mean vs run
×10^3
χ² / ndf 70.24 / 90
p0 1.559e+04 ± 3.33e+04
1000
500
0
−500
−1000
pull
Entries 91
Mean −1.433e+04
Std Dev 0
2
1
0
−1
−2

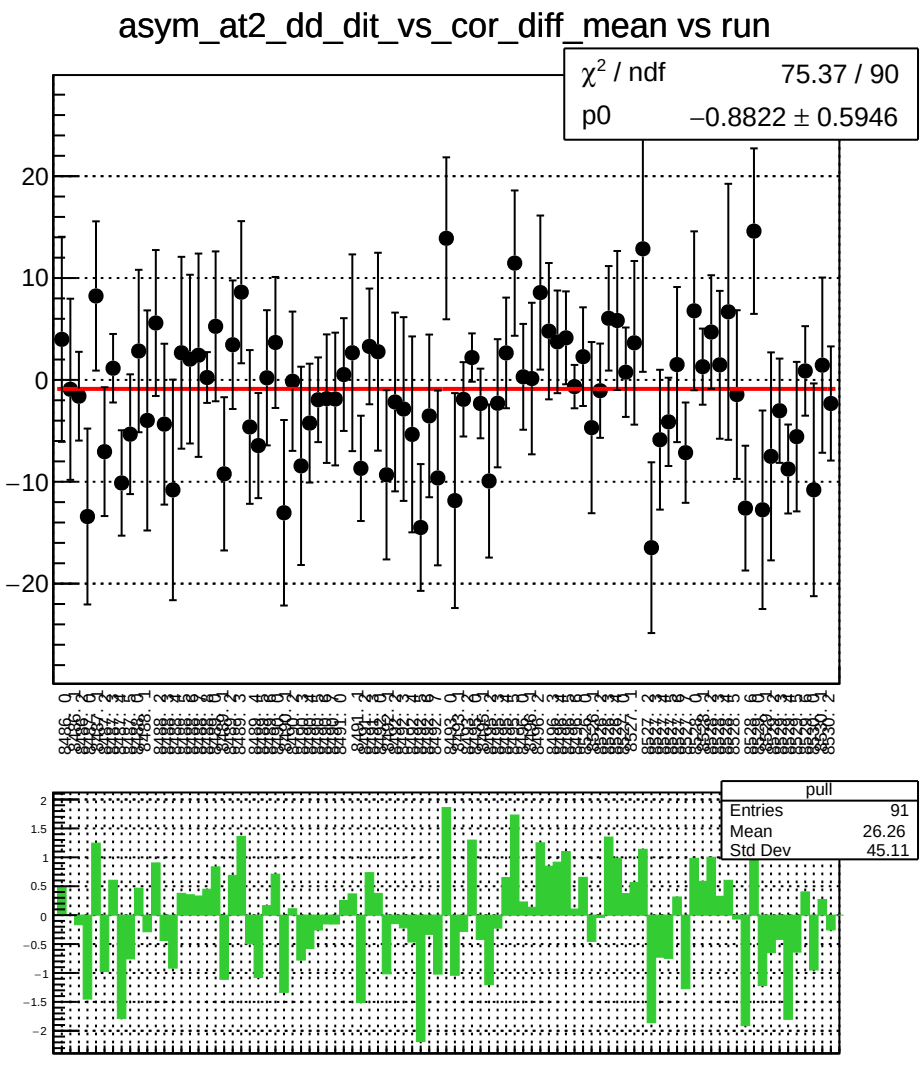

pull1D
Entries 91
Mean −0.0002384
Std Dev 0.8785
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

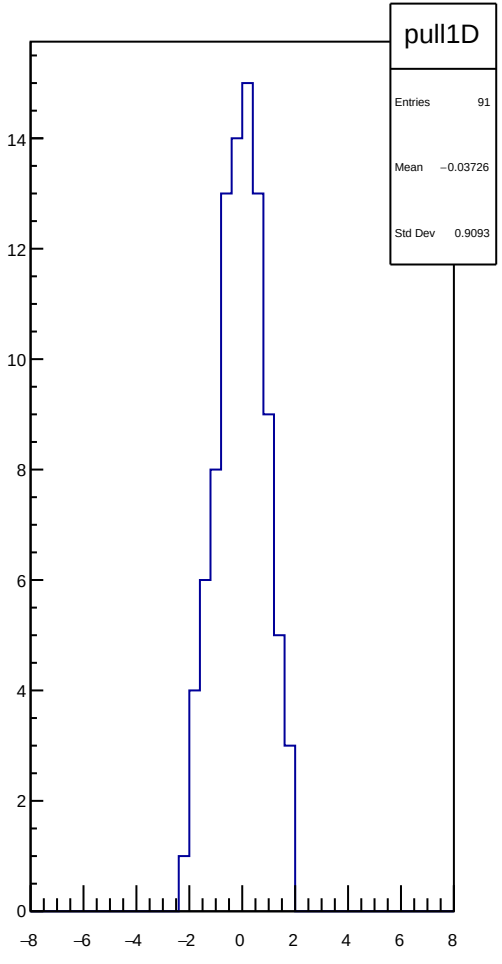
asym_at2_dd_rms vs run

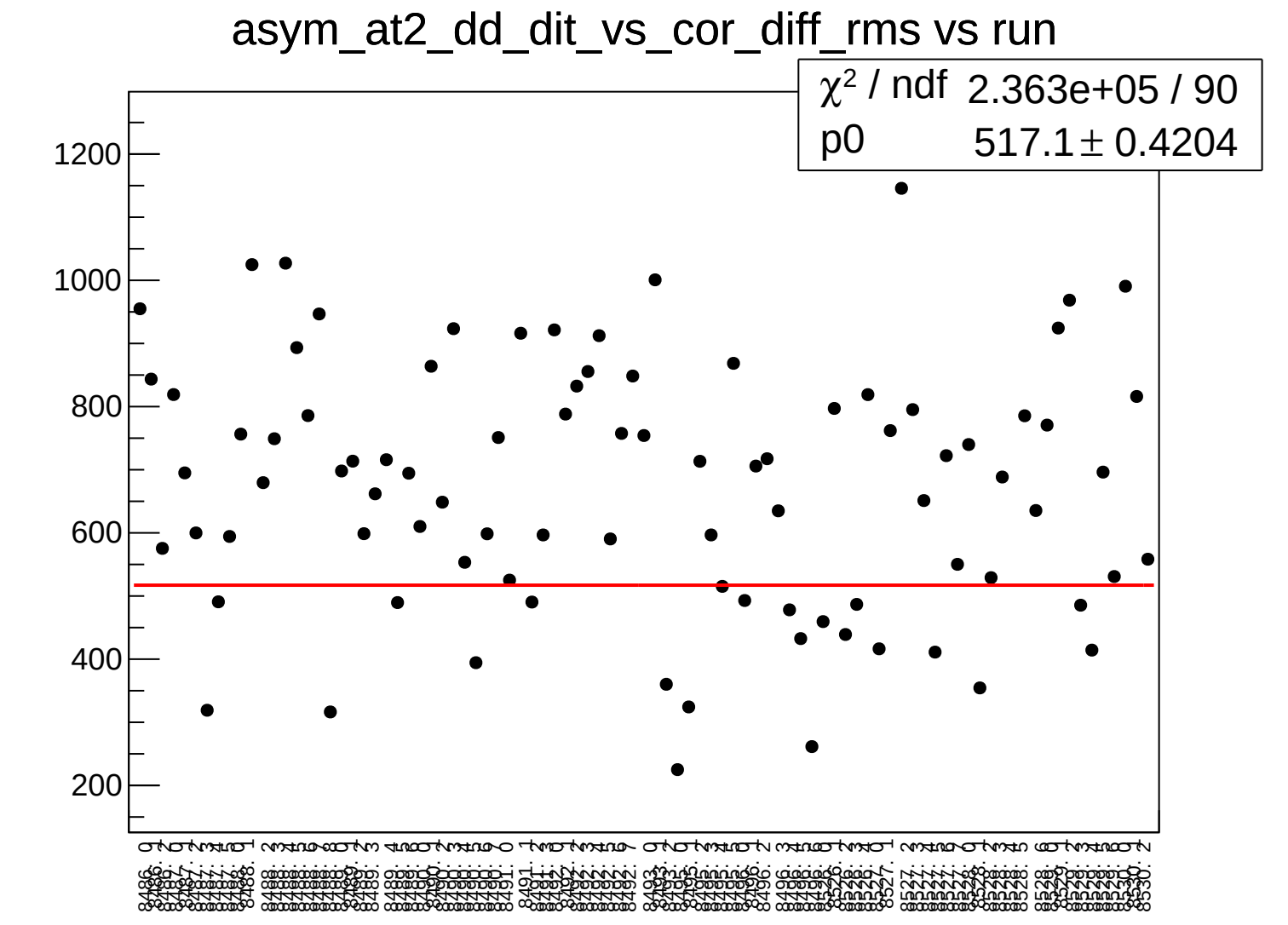


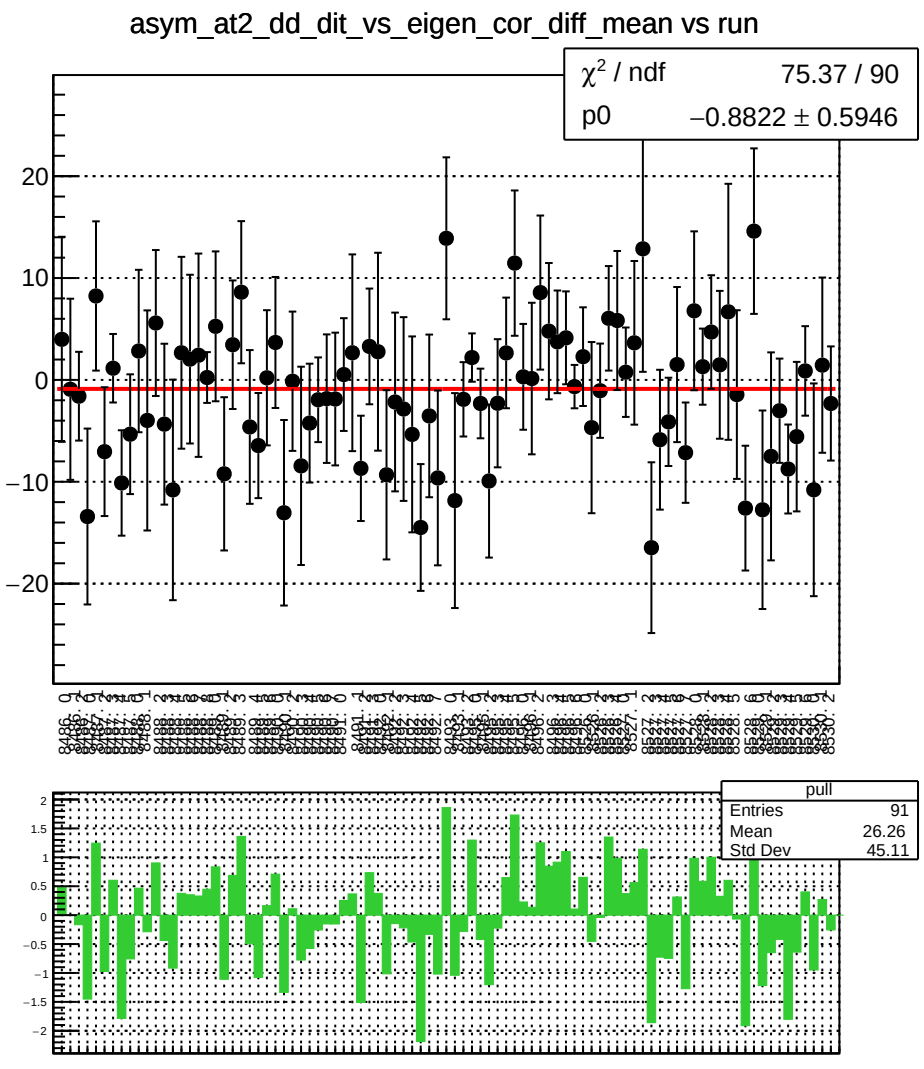

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 75.66 / 90
p0 1.22e−13 ± 2.877e−13
pull
Entries 91
Mean 67.37
Std Dev 25.51
pull1D
Entries 91
Mean 0.08343
Std Dev 0.908

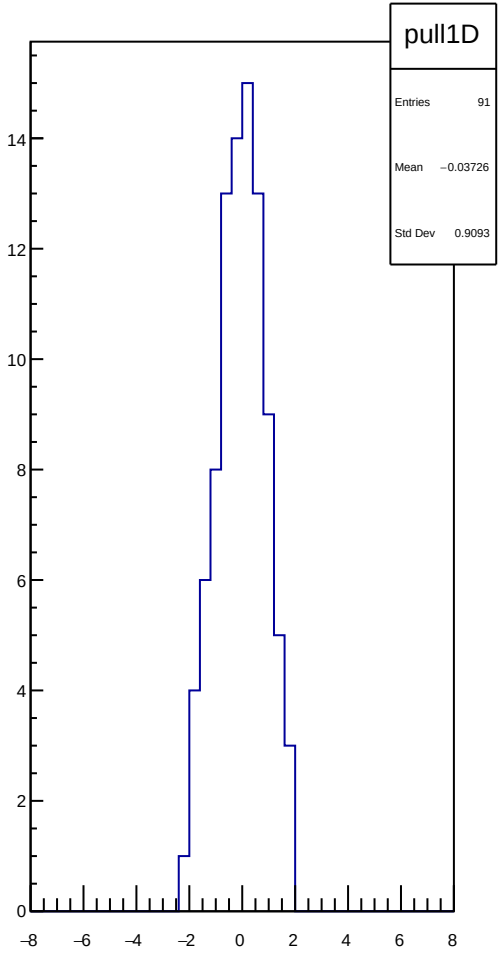

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.252e+06 / 90
p0 1.435e−10 ± 2.035e−13
0
2
4
6
8
10
12
14
16
18
20

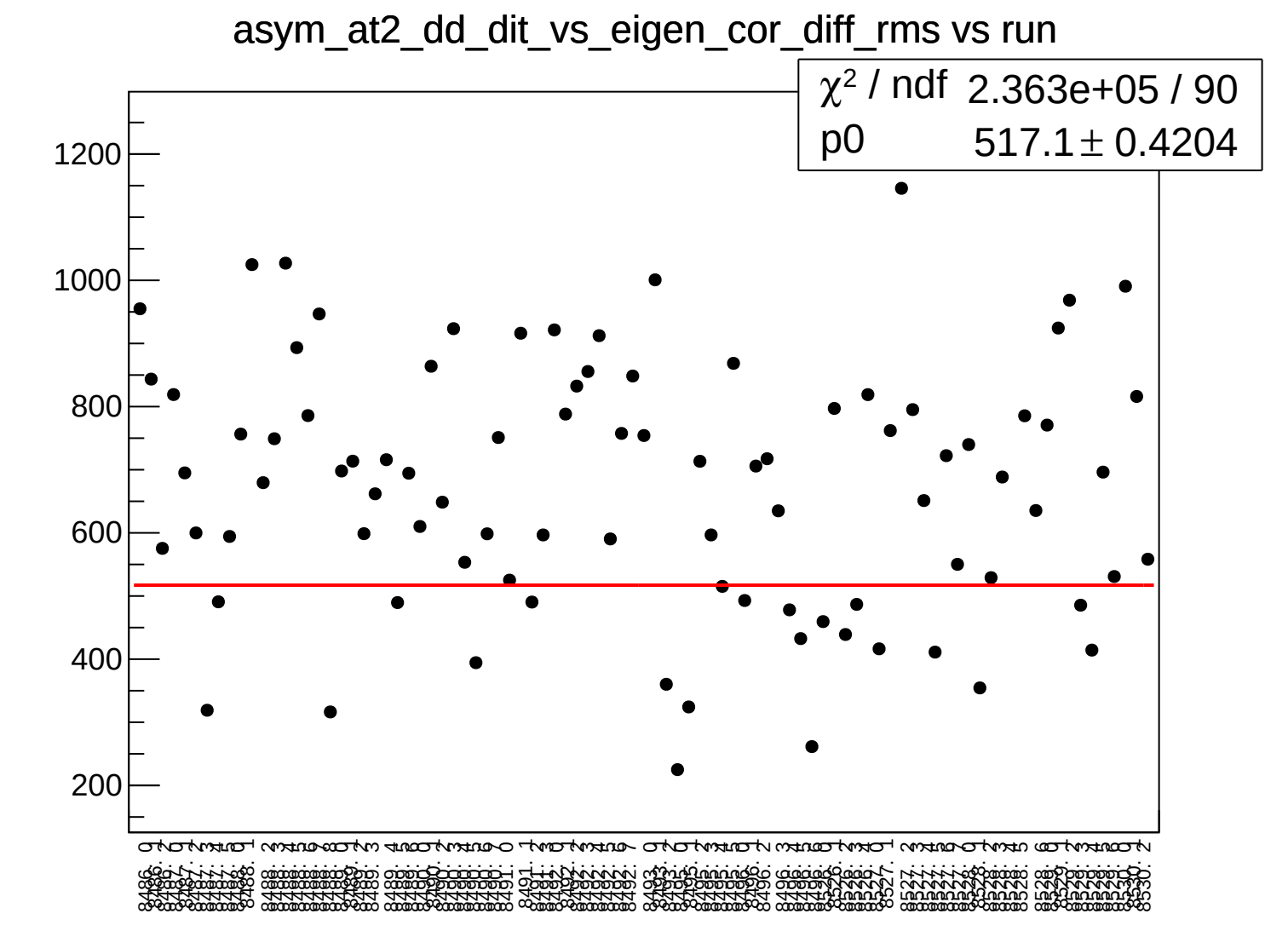

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 75.37 / 90
p0 −0.8822 ± 0.5946
pull
Entries 91
Mean 26.26
Std Dev 45.11

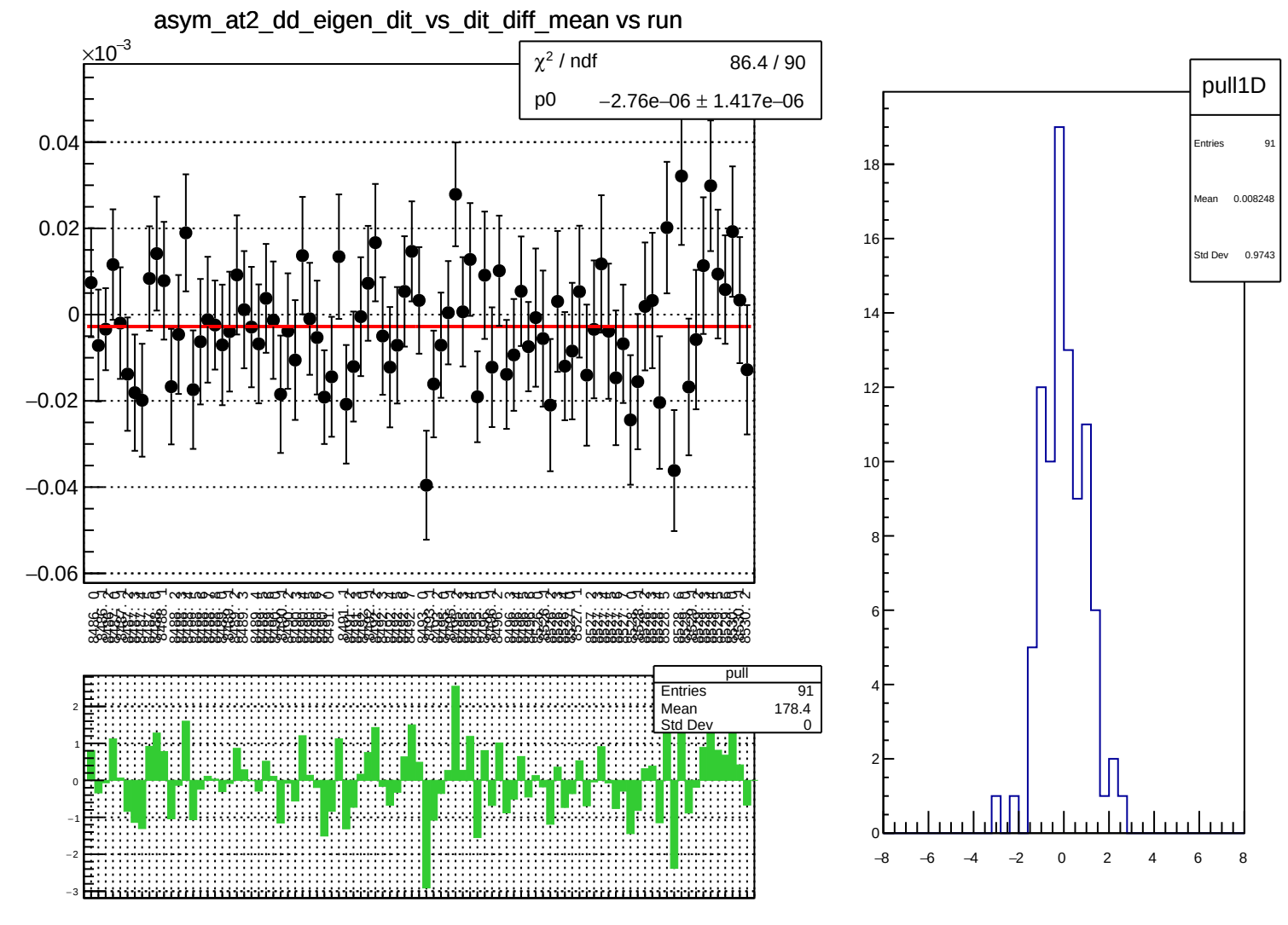

pull1D
Entries 91
Mean −0.03726
Std Dev 0.9093

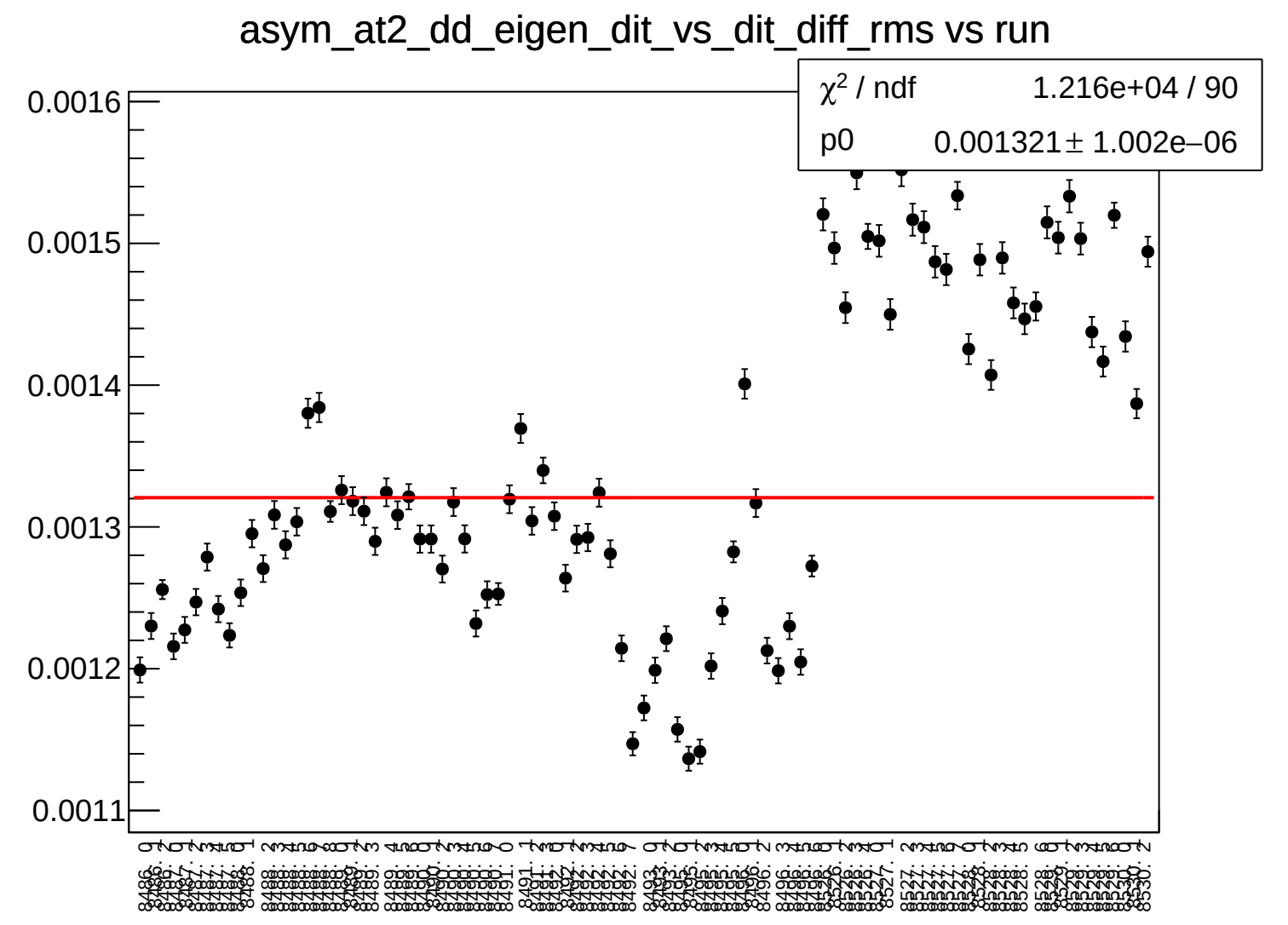

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.363e+05 / 90
p0 517.1 ± 0.4204
1200
1000
800
600
400
200

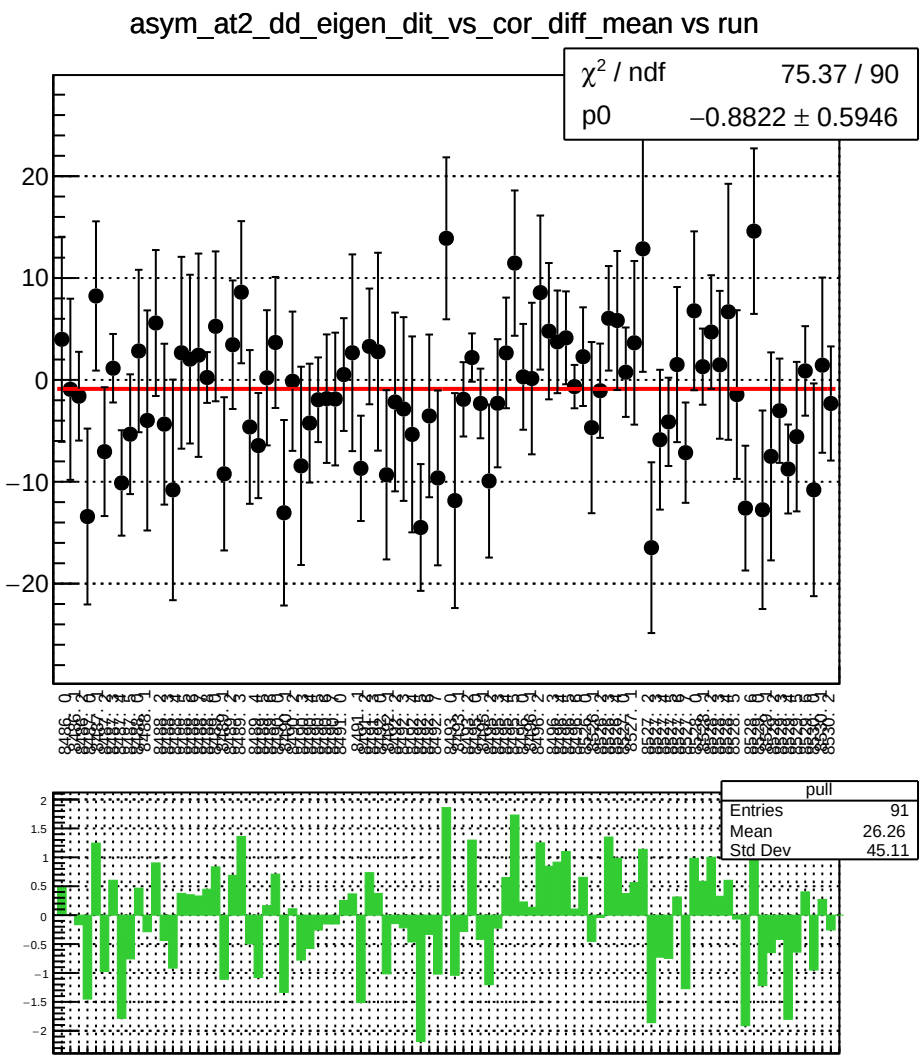

asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.37 / 90
p0 −0.8822 ± 0.5946
pull
Entries 91
Mean 26.26
Std Dev 45.11

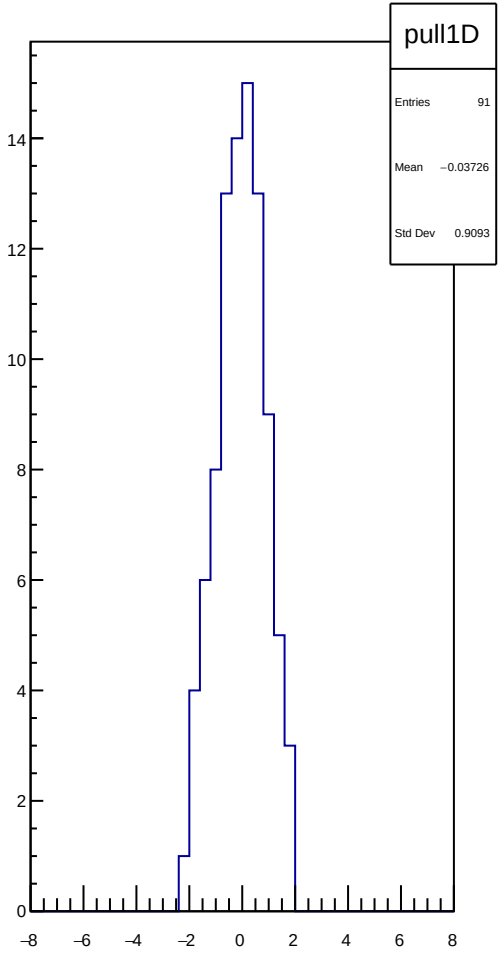

pull1D
Entries 91
Mean −0.03726
Std Dev 0.9093

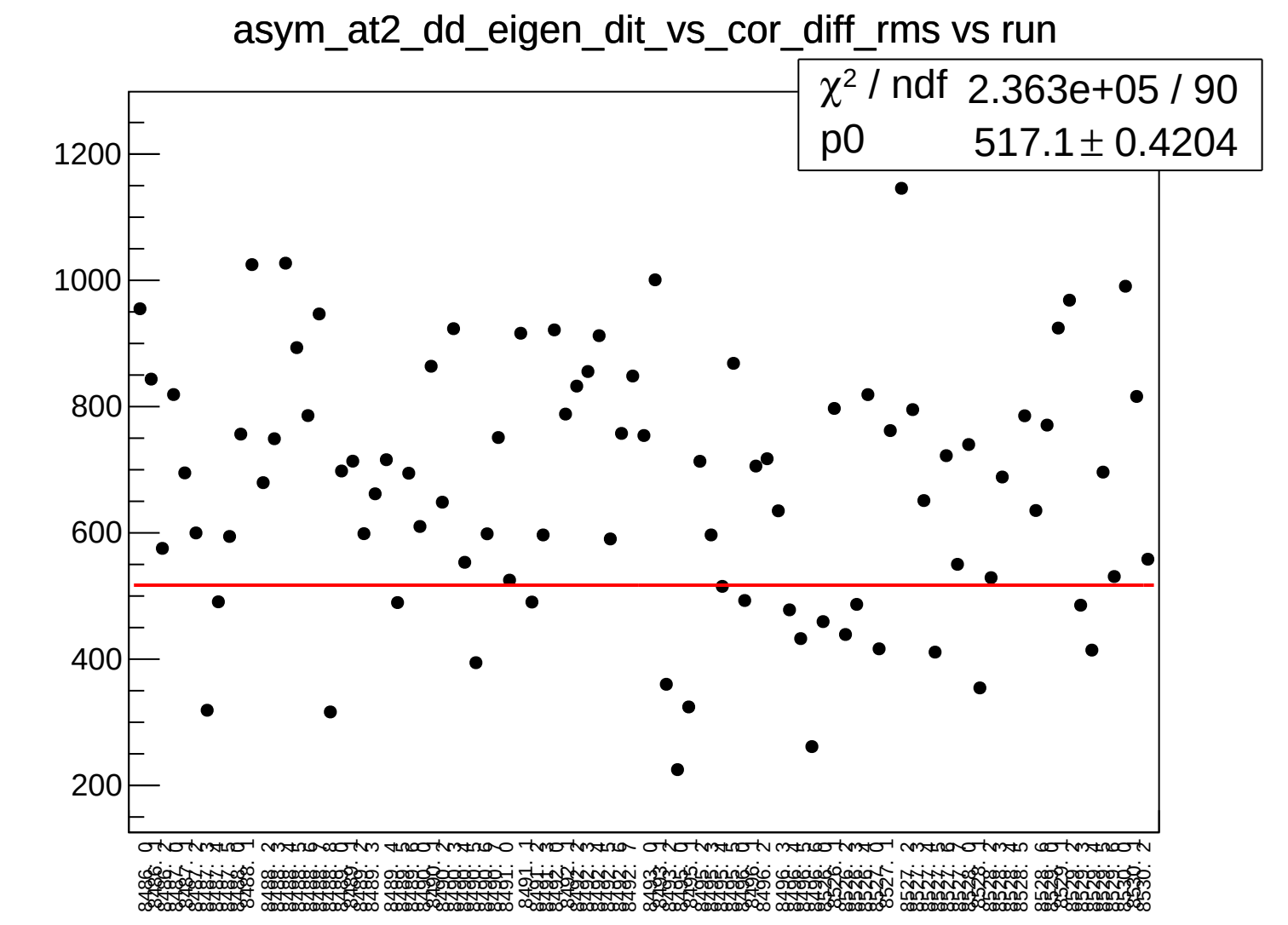

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.363e+05 / 90
p0 517.1 ± 0.4204
1200
1000
800
600
400
200

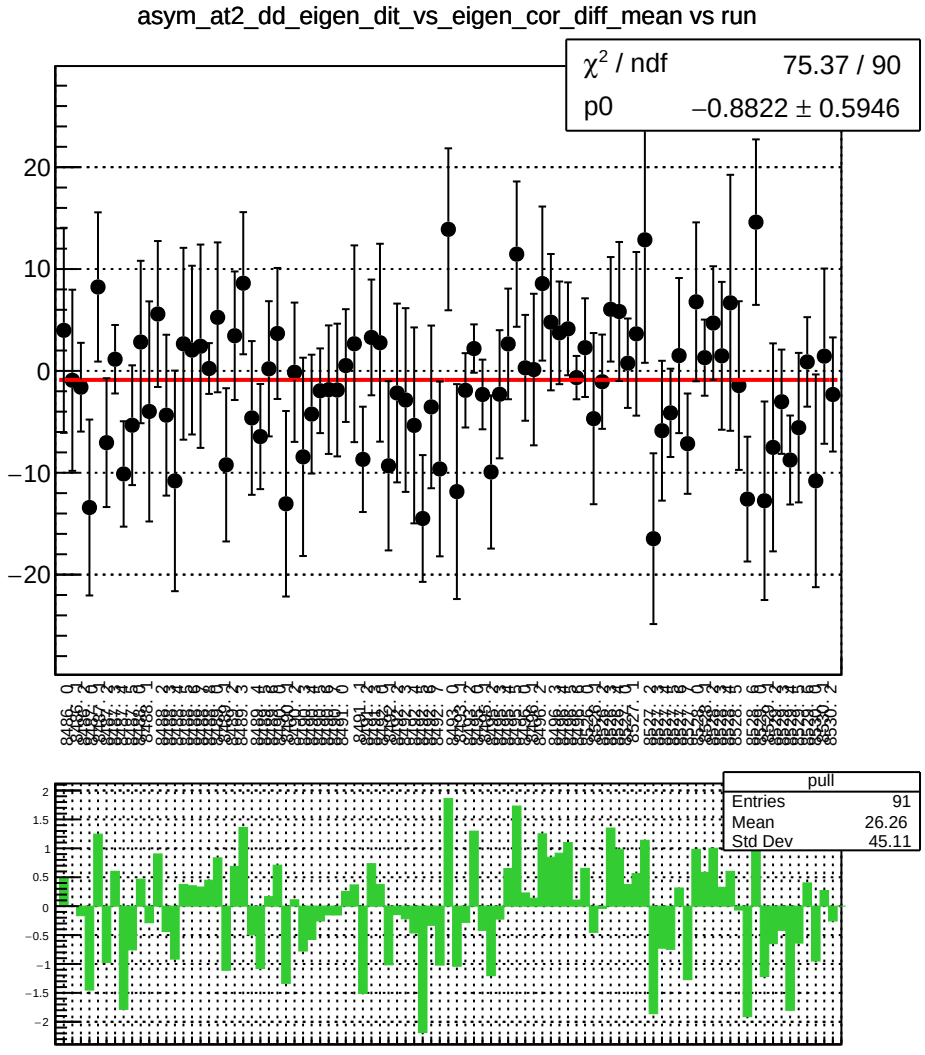

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.4 / 90
p0 −2.76e−06 ± 1.417e−06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 91
Mean 178.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean 0.008248
Std Dev 0.9743
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

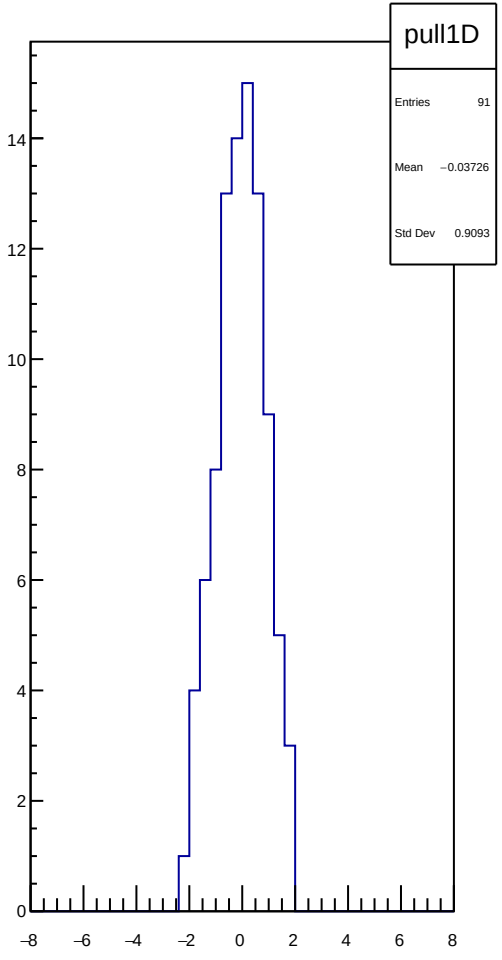

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.216e+04 / 90
p0 0.001321 ± 1.002e−06
0.0016
0.0015
0.0014
0.0013
0.0012
0.0011

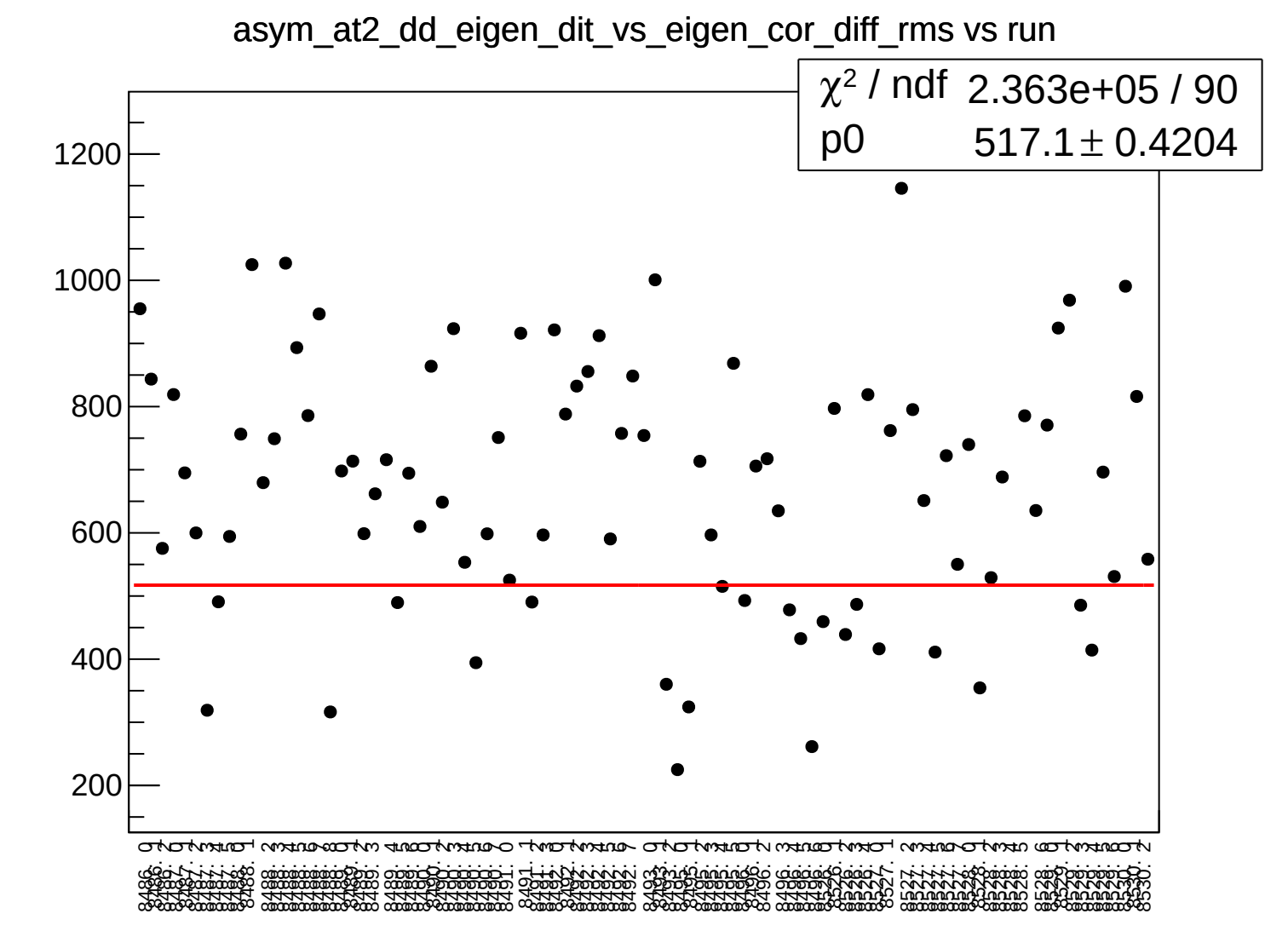

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.37 / 90
p0 −0.8822 ± 0.5946
pull
Entries 91
Mean 26.26
Std Dev 45.11

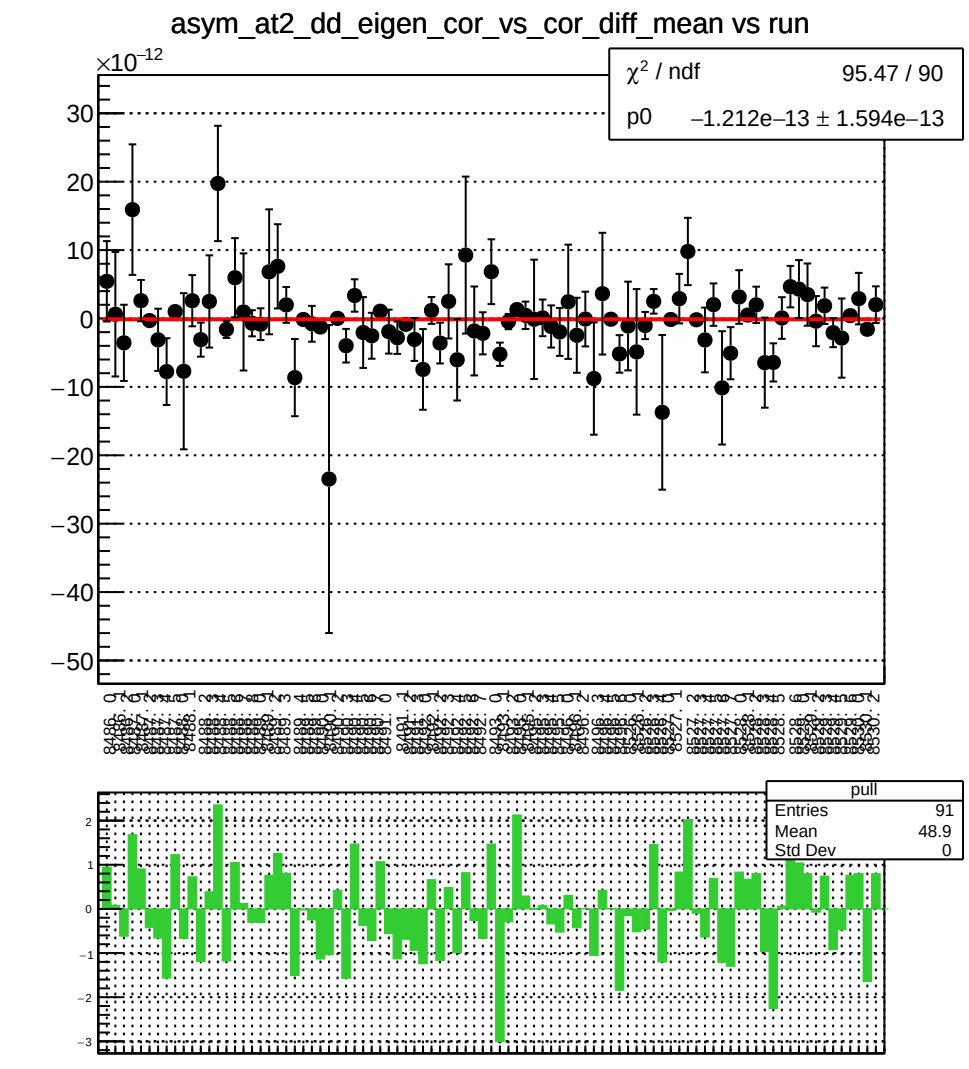

pull1D
Entries 91
Mean −0.03726
Std Dev 0.9093

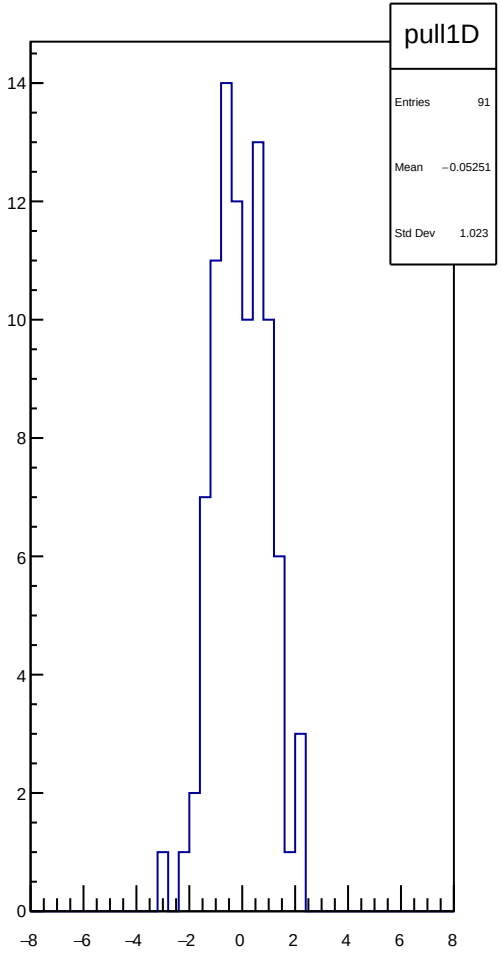

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.363e+05 / 90
p0 517.1 ± 0.4204
1200
1000
800
600
400
200

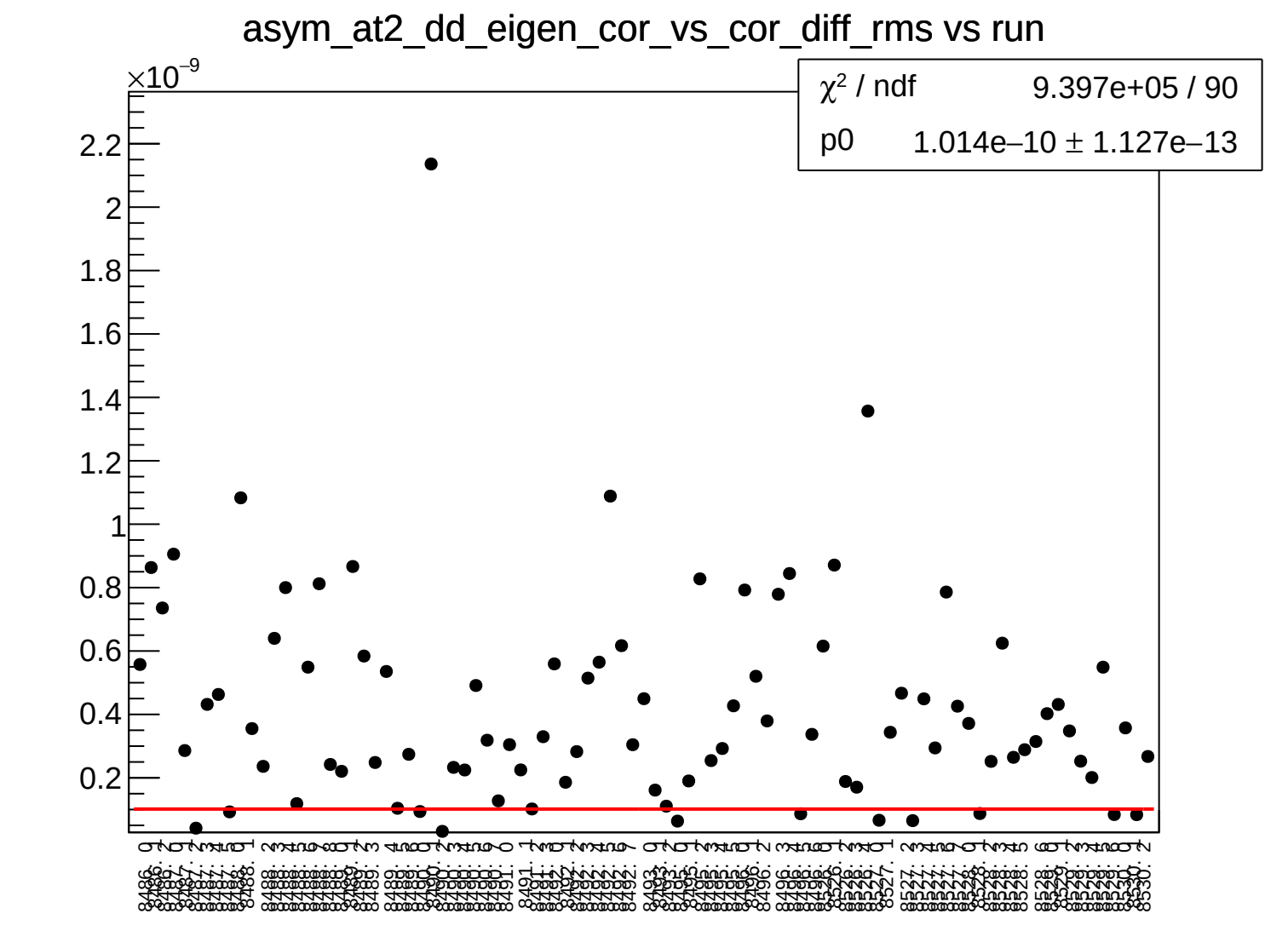

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.37 / 90
p0 −0.8822 ± 0.5946
pull
Entries 91
Mean 26.26
Std Dev 45.11

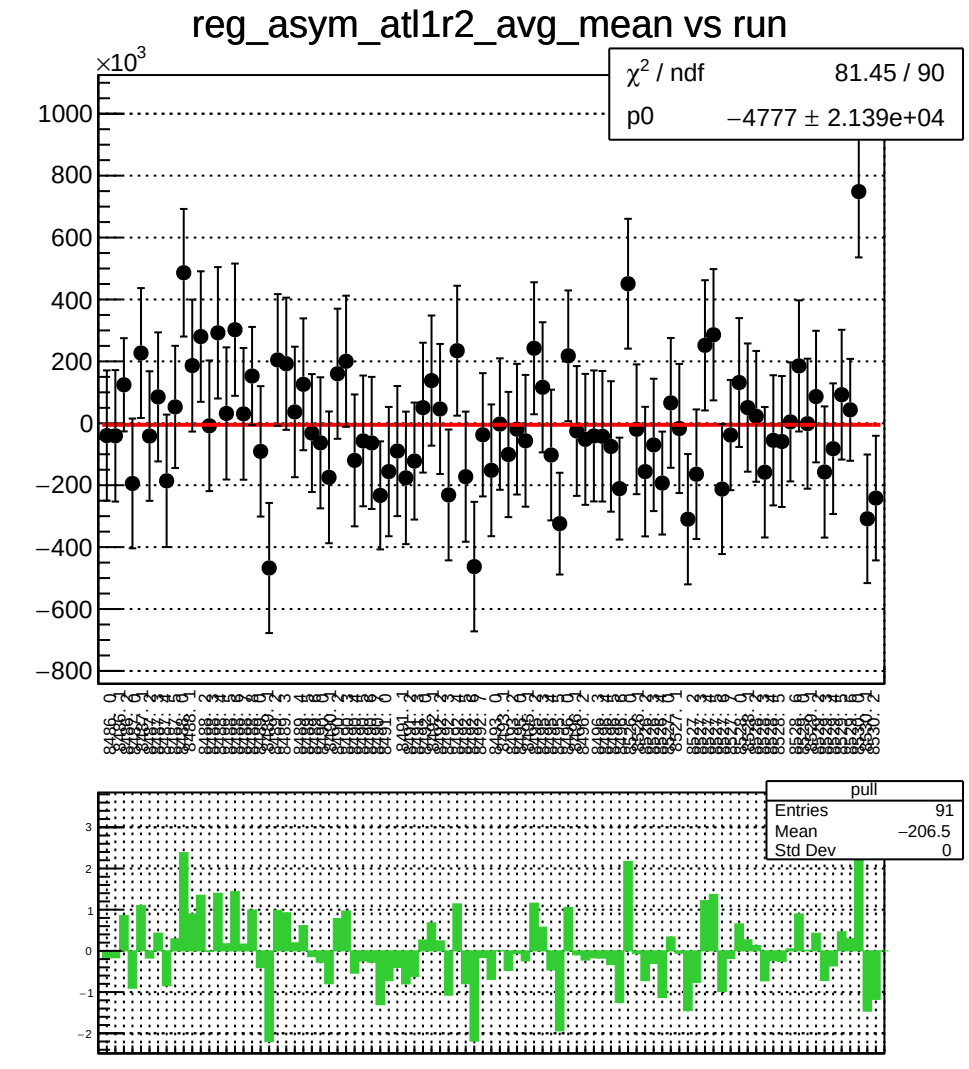

pull1D
Entries 91
Mean −0.03726
Std Dev 0.9093

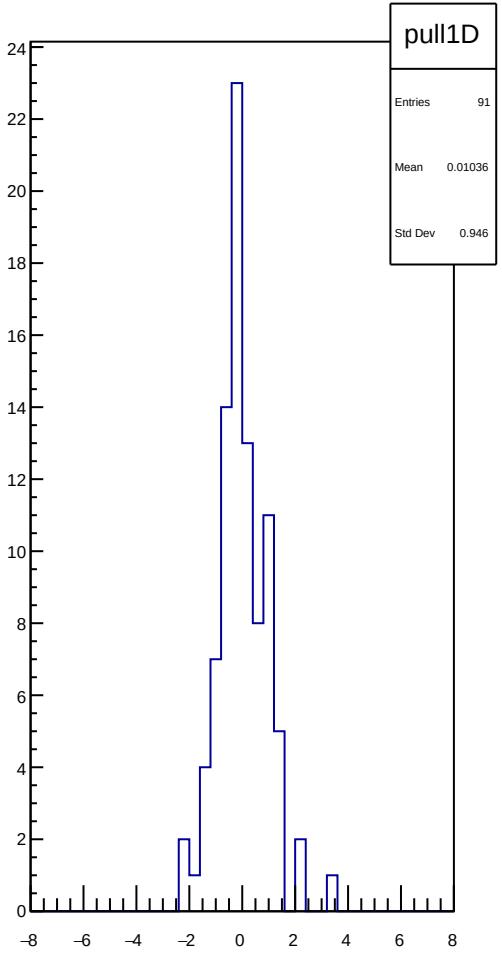

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.363e+05 / 90
p0 517.1 ± 0.4204
1200
1000
800
600
400
200

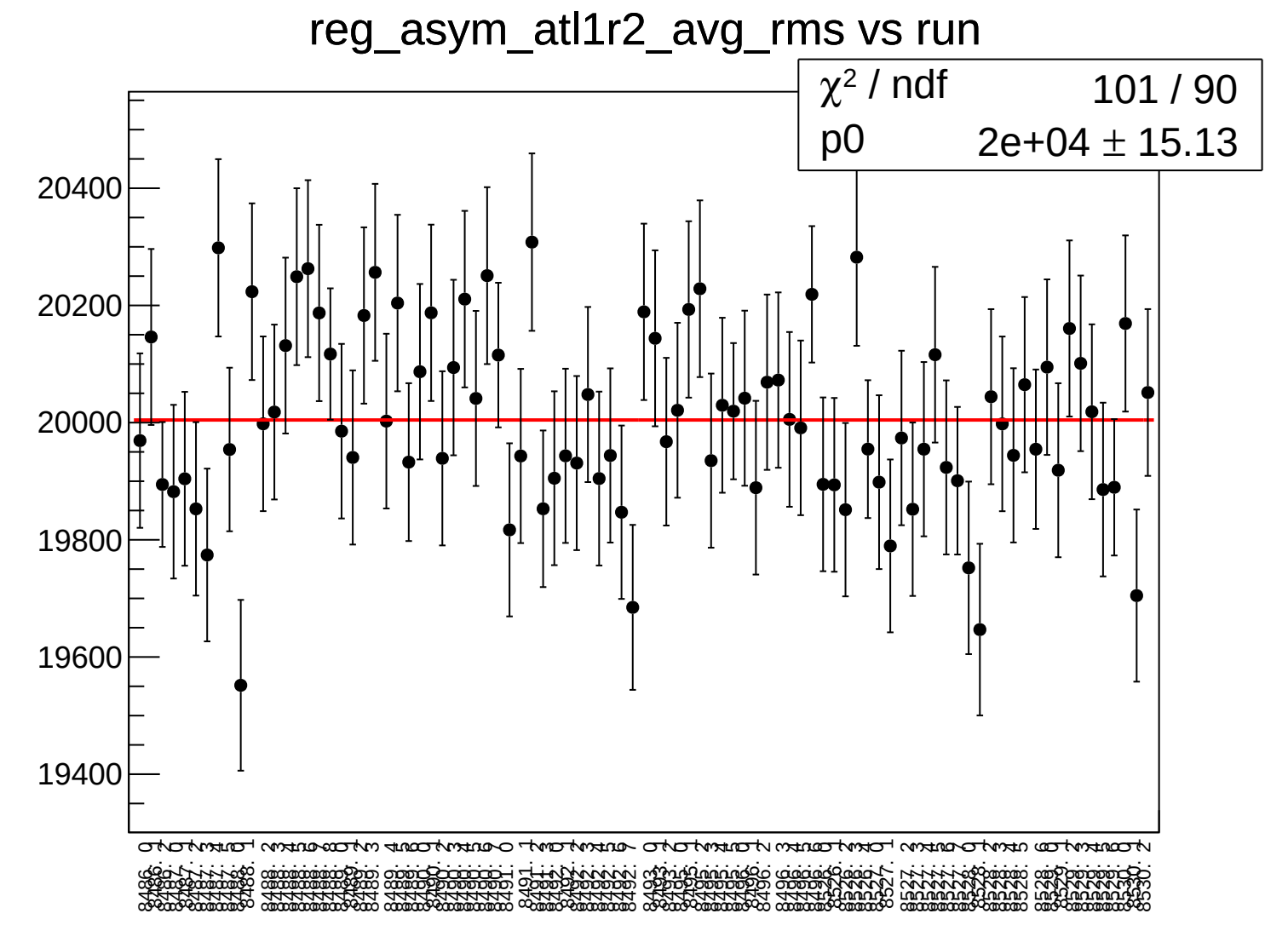

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.47 / 90
p0 −1.212e−13 ± 1.594e−13
pull
Entries 91
Mean 48.9
Std Dev 0

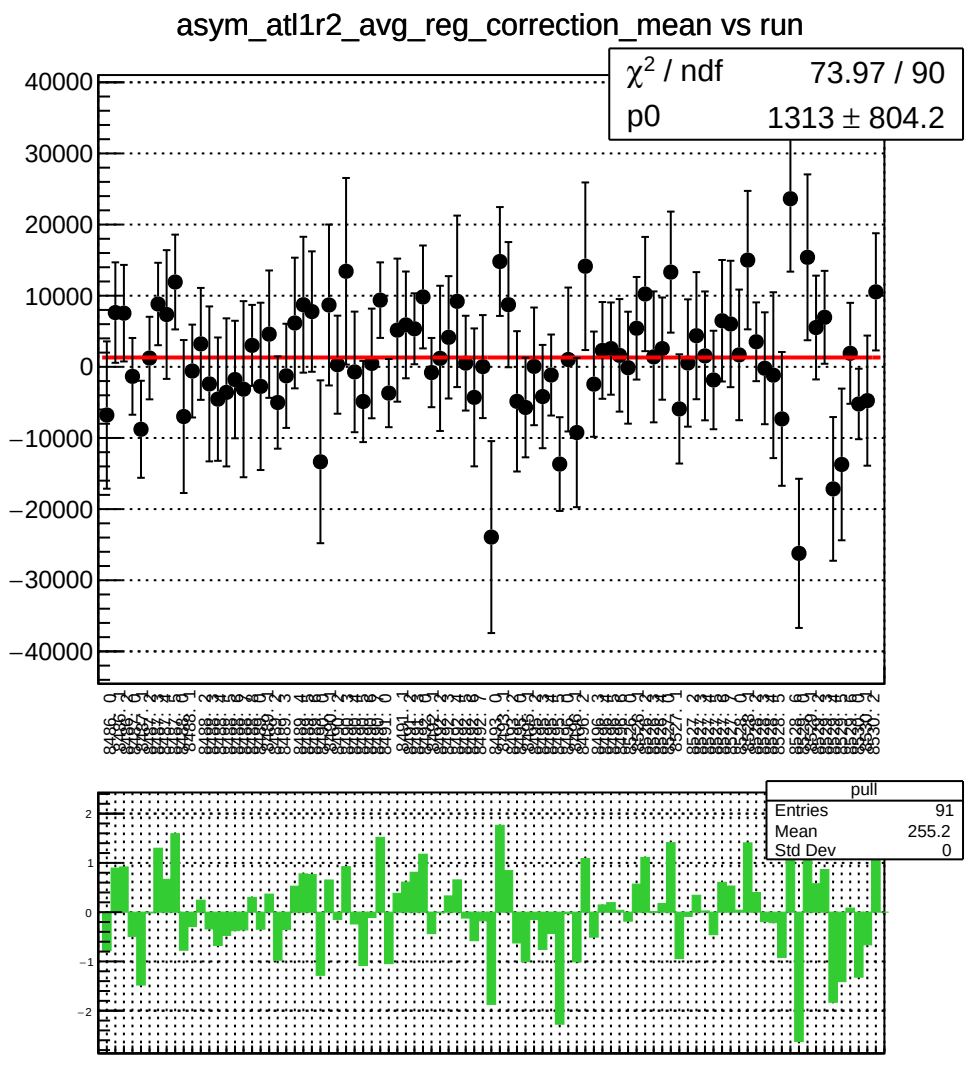

pull1D
Entries 91
Mean −0.05251
Std Dev 1.023

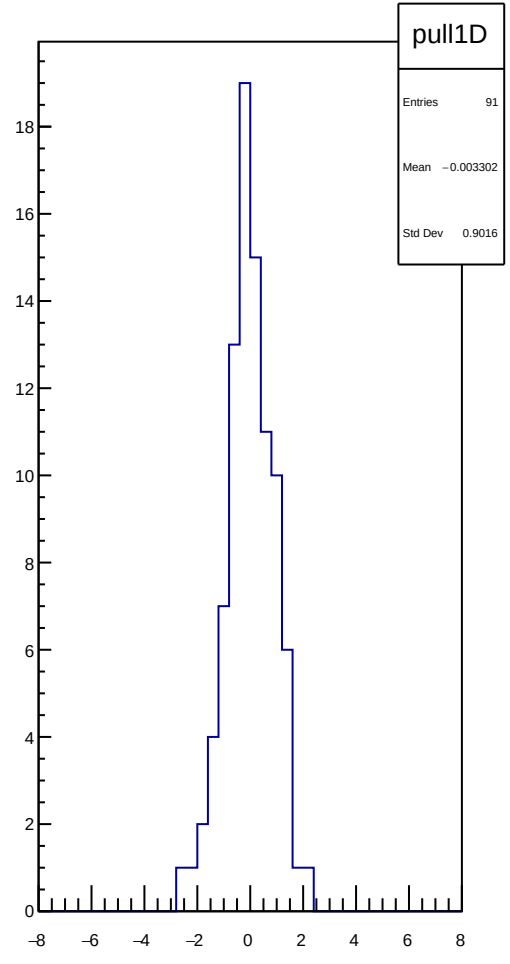

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.397e+05 / 90
p0 1.014e−10 ± 1.127e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

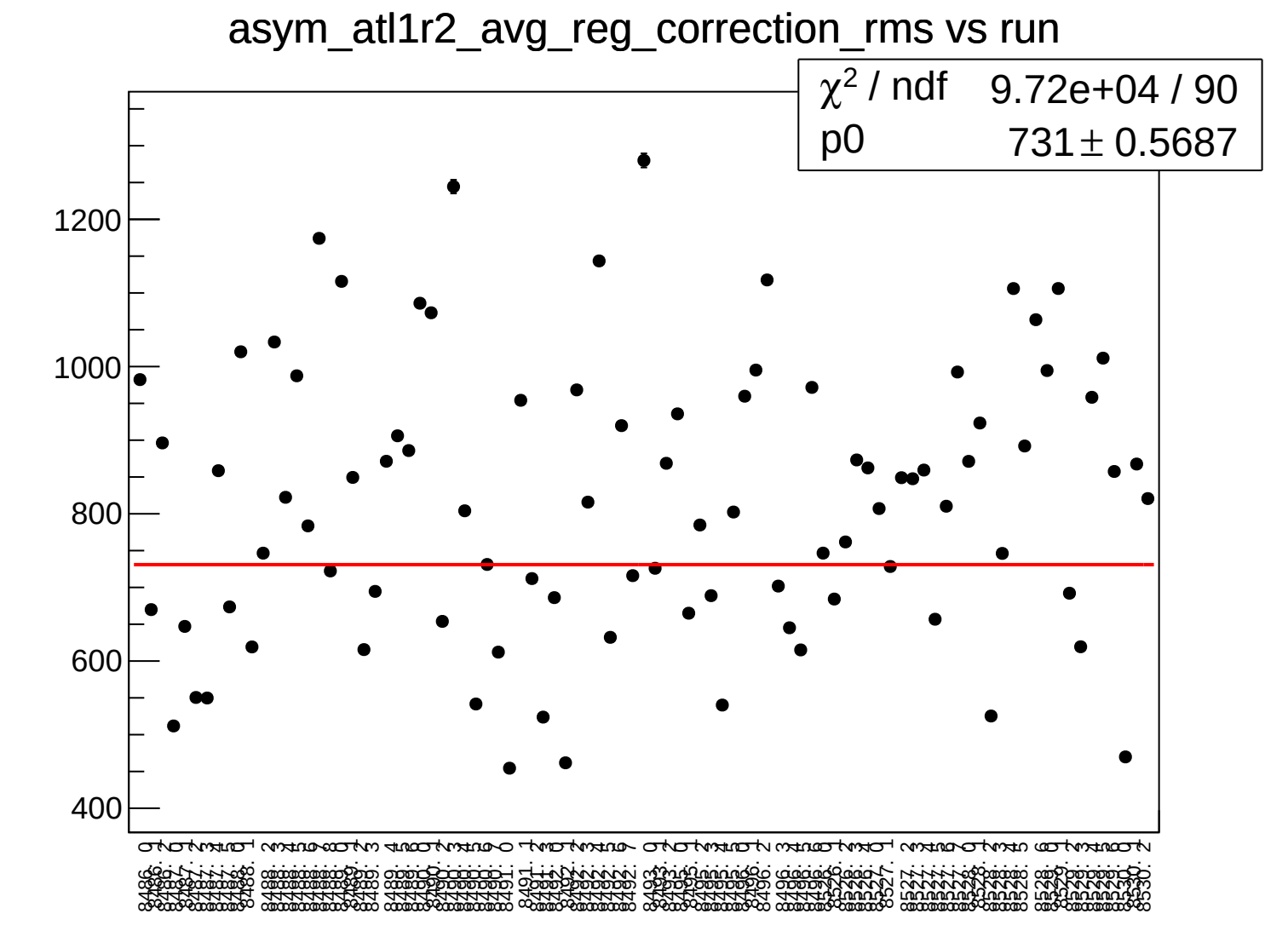

reg_asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 81.45 / 90
p0 −4777 ± 2.139e+04
pull
Entries 91
Mean −206.5
Std Dev 0

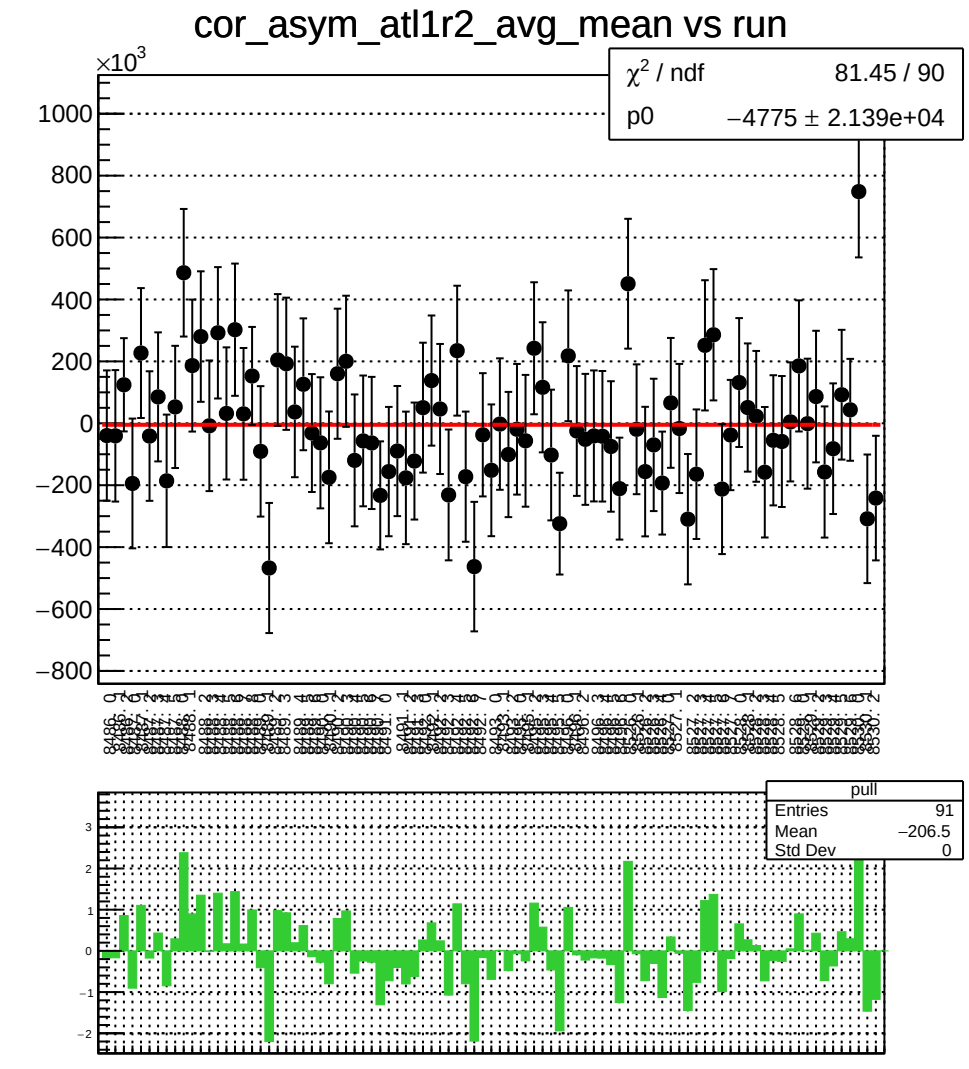

pull1D
Entries 91
Mean 0.01036
Std Dev 0.946

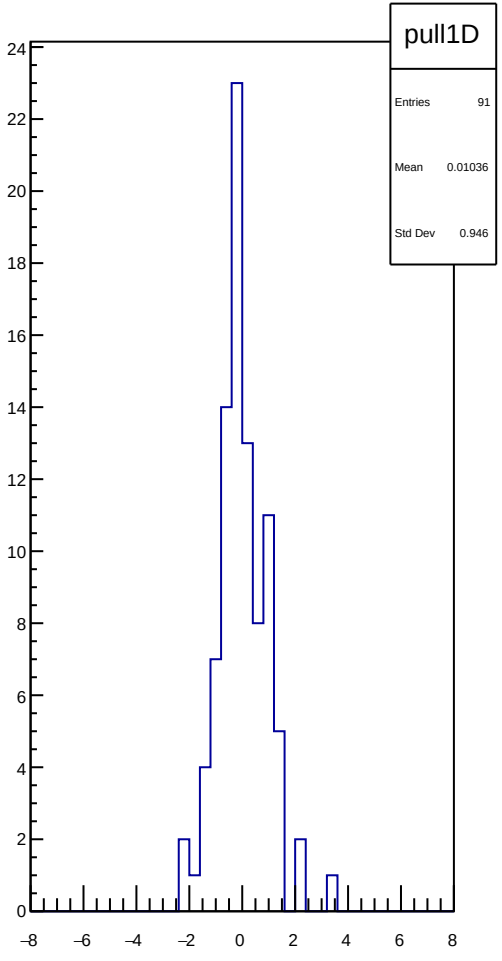

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 101 / 90
p0 2e+04 ± 15.13
20400
20200
20000
19800
19600
19400

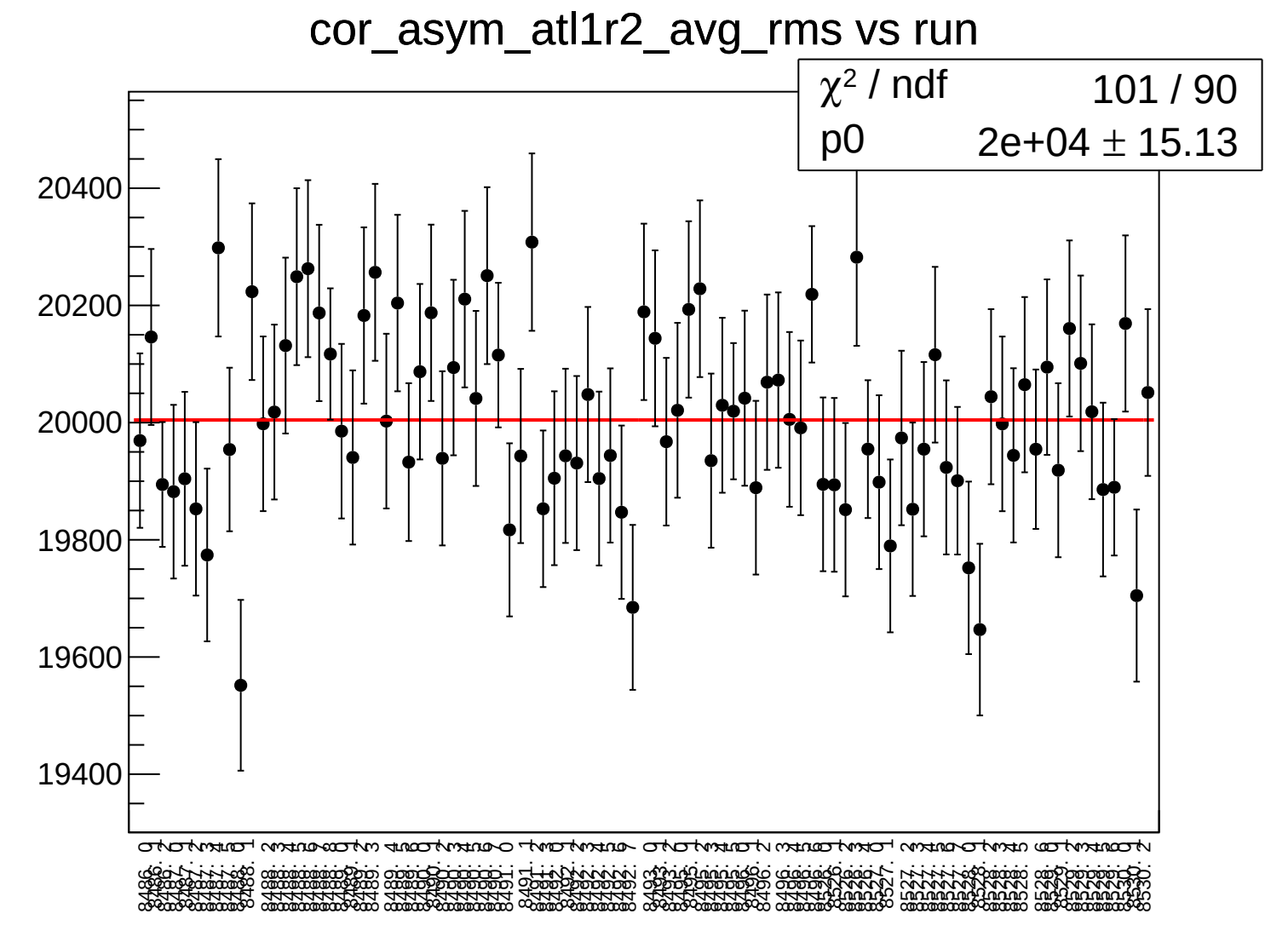

asym_atl1r2_avg_reg_correction_mean vs run
χ² / ndf 73.97 / 90
p0 1313 ± 804.2
pull
Entries 91
Mean 255.2
Std Dev 0

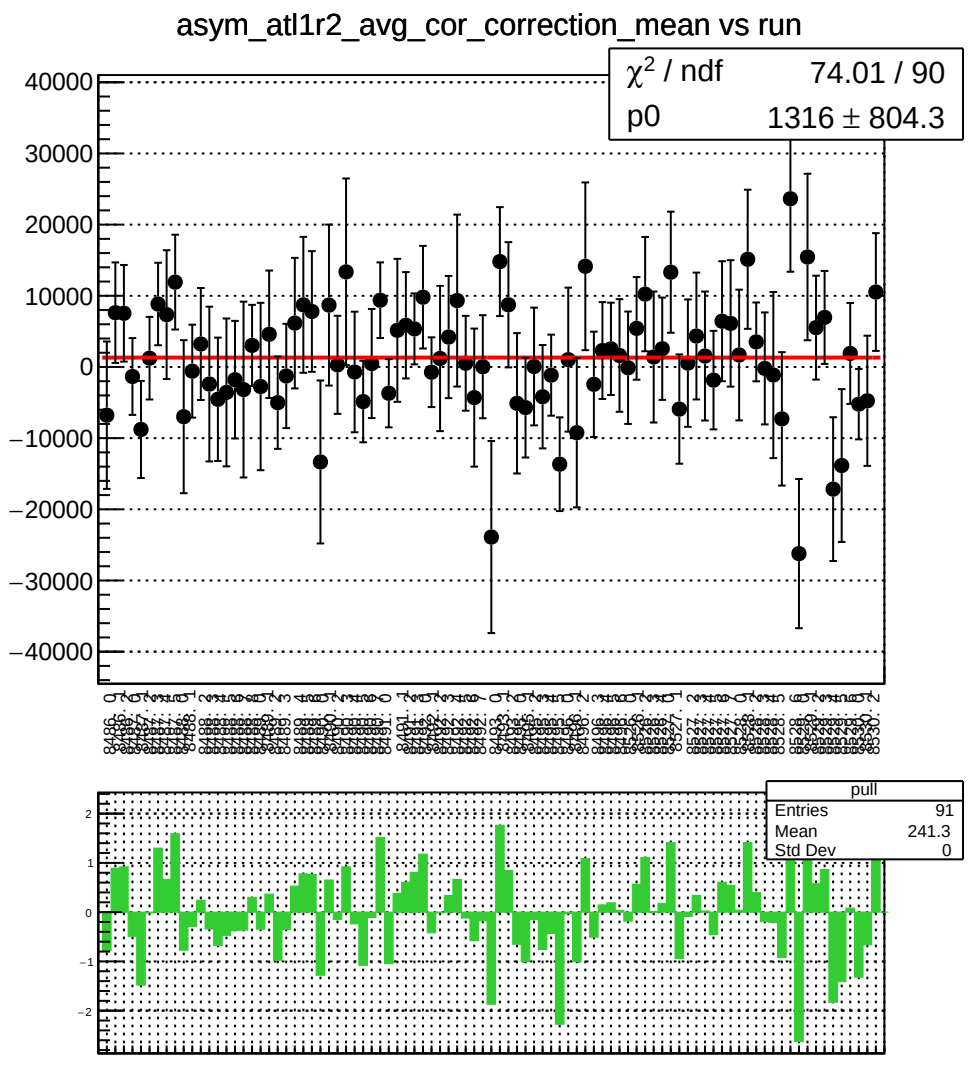

pull1D
Entries 91
Mean −0.003302
Std Dev 0.9016

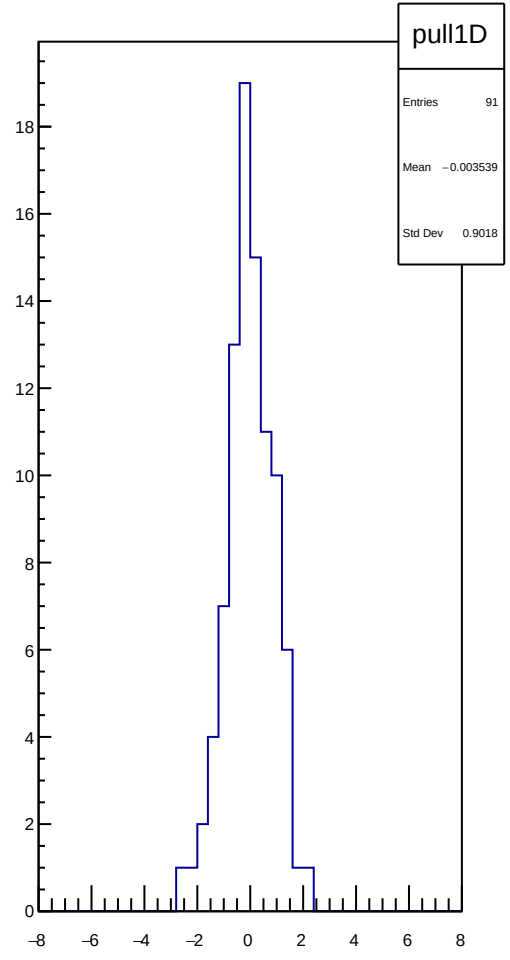

asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 9.72e+04 / 90
p0 731 ± 0.5687
1200
1000
800
600
400

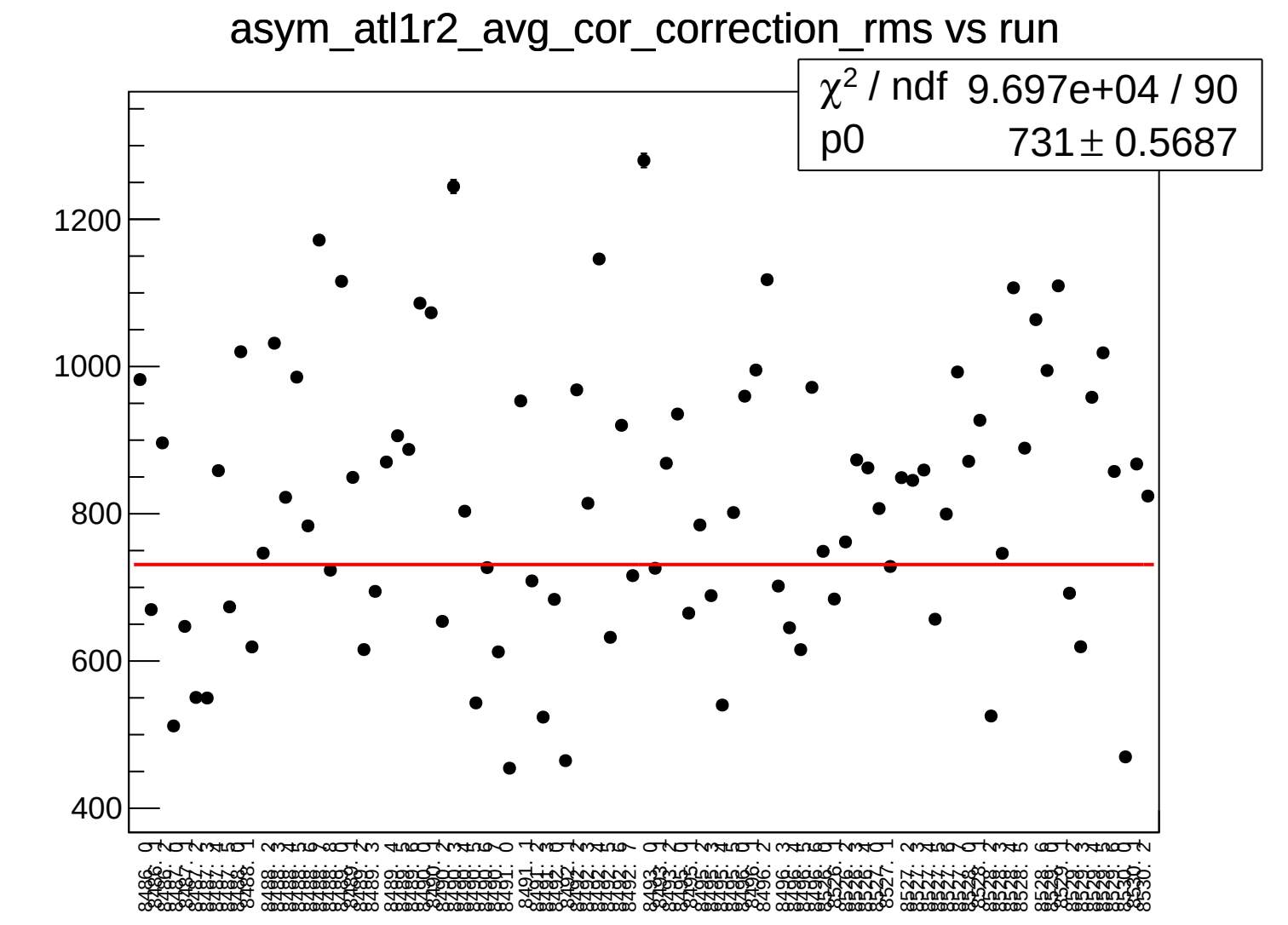

cor_asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 81.45 / 90
p0 −4775 ± 2.139e+04
pull
Entries 91
Mean −206.5
Std Dev 0

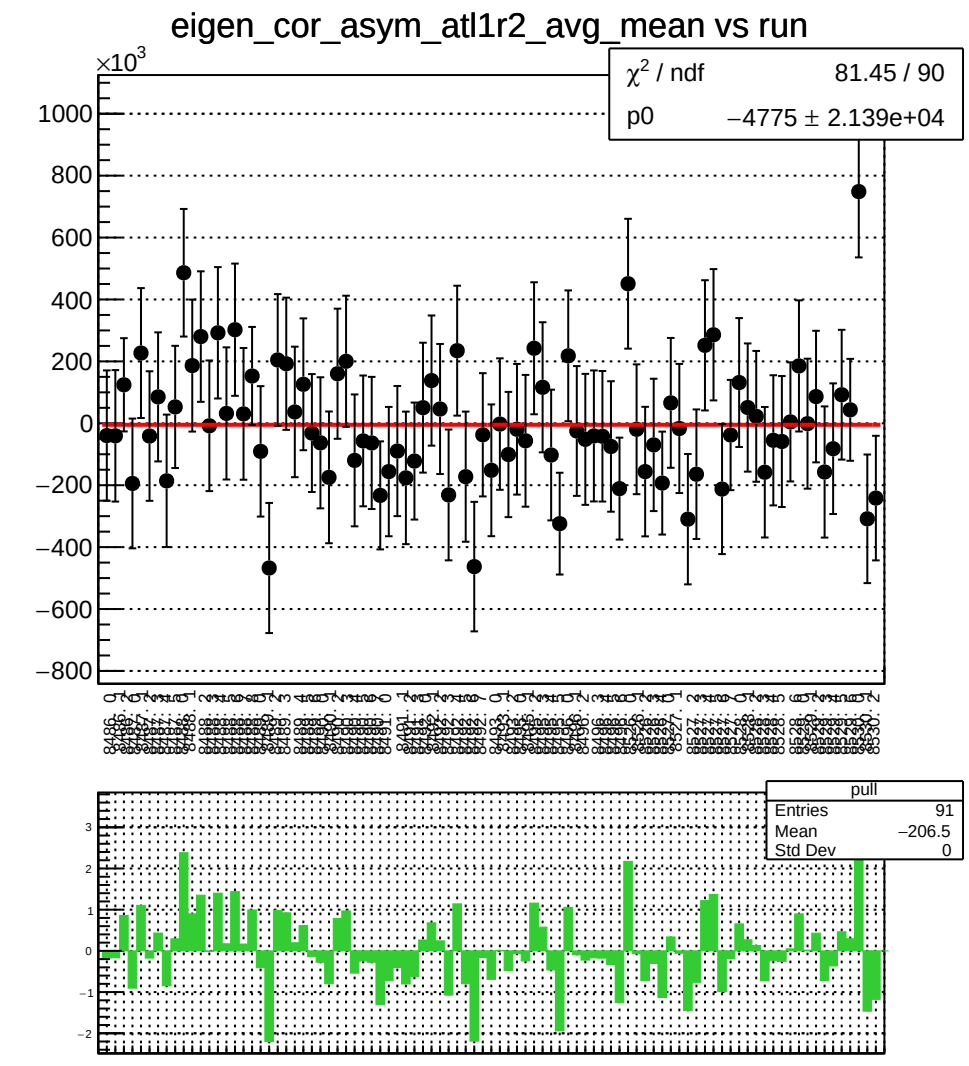

pull1D
Entries 91
Mean 0.01036
Std Dev 0.946

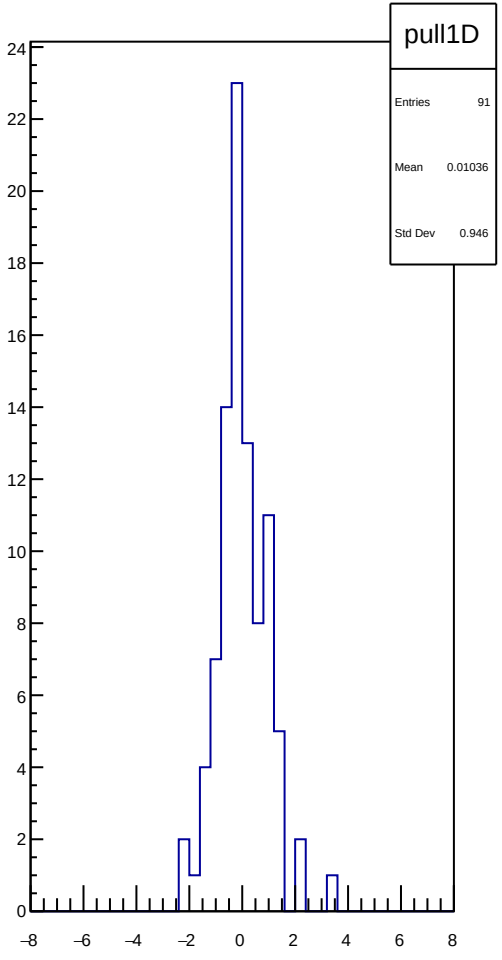

cor_asym_atl1r2_avg_rms vs run
χ² / ndf 101 / 90
p0 2e+04 ± 15.13
20400
20200
20000
19800
19600
19400

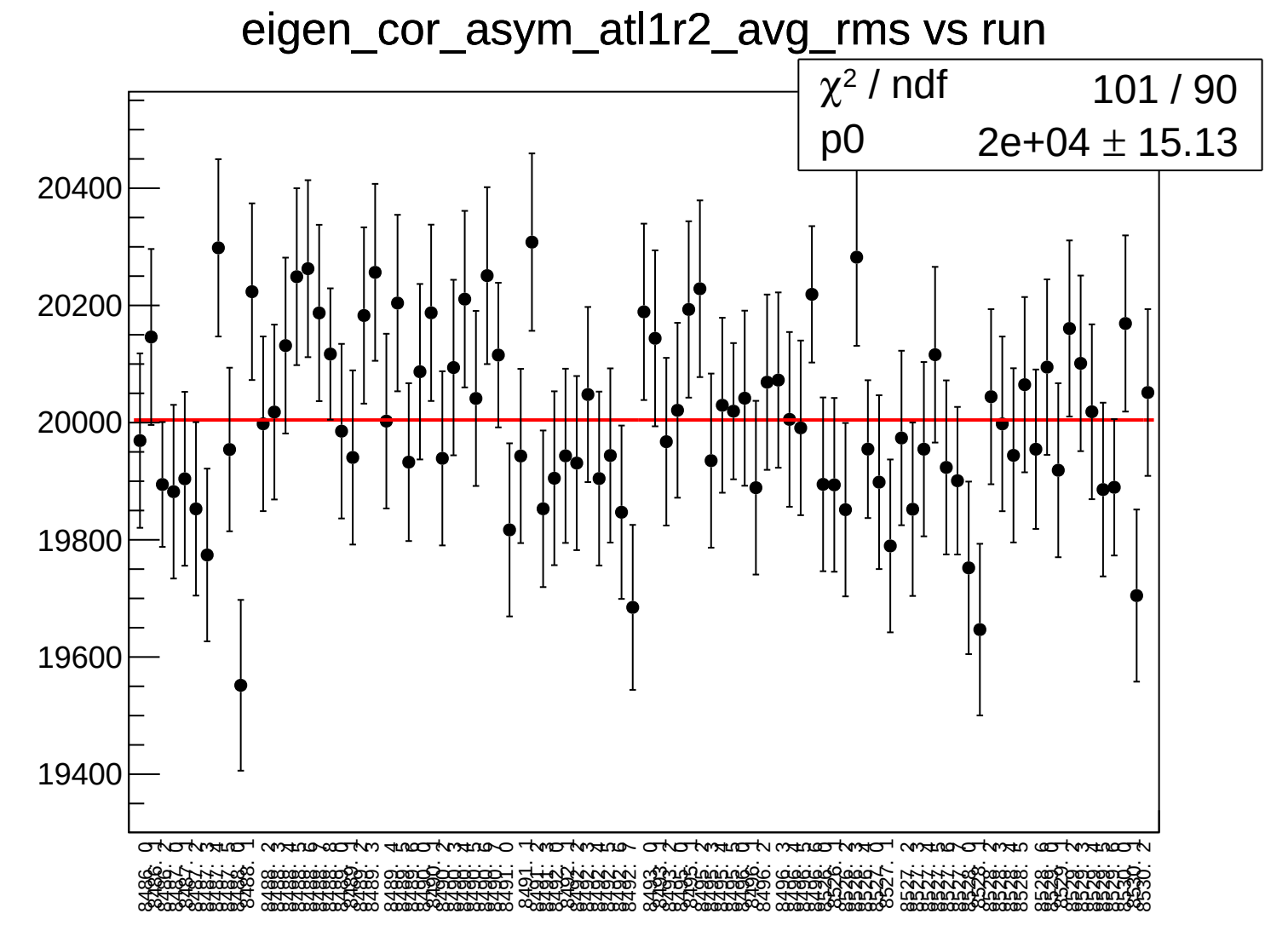

asym_atl1r2_avg_cor_correction_mean vs run
χ² / ndf 74.01 / 90
p0 1316 ± 804.3
pull
Entries 91
Mean 241.3
Std Dev 0

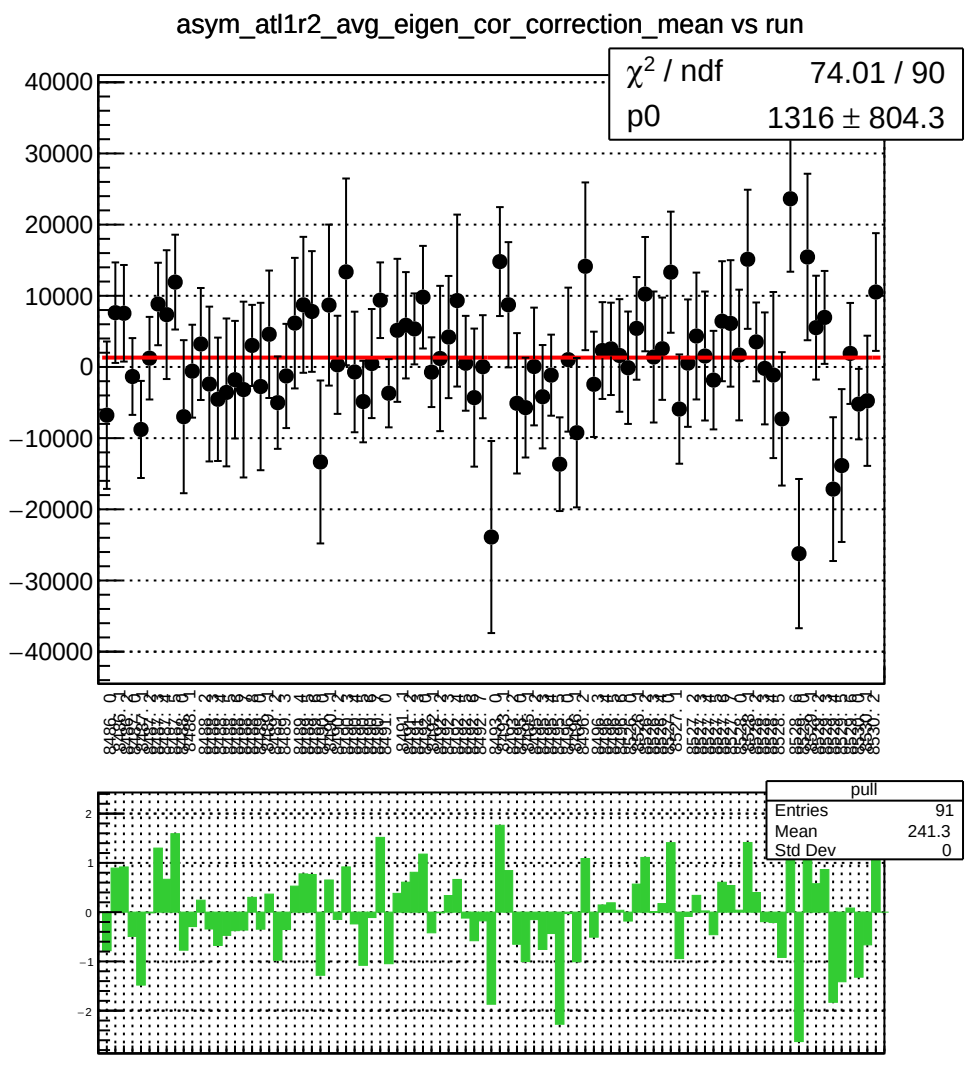

pull1D
Entries 91
Mean −0.003539
Std Dev 0.9018

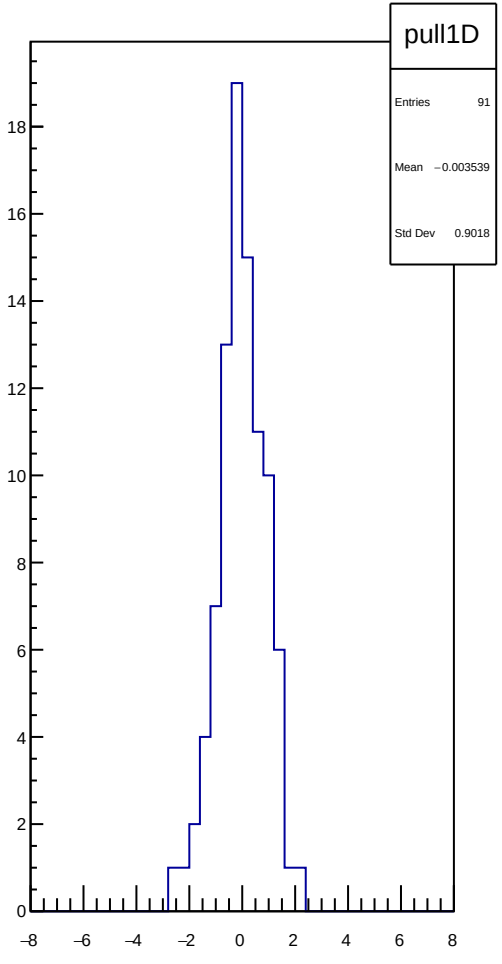

asym_atl1r2_avg_cor_correction_rms vs run
χ² / ndf 9.697e+04 / 90
p0 731 ± 0.5687
1200
1000
800
600
400

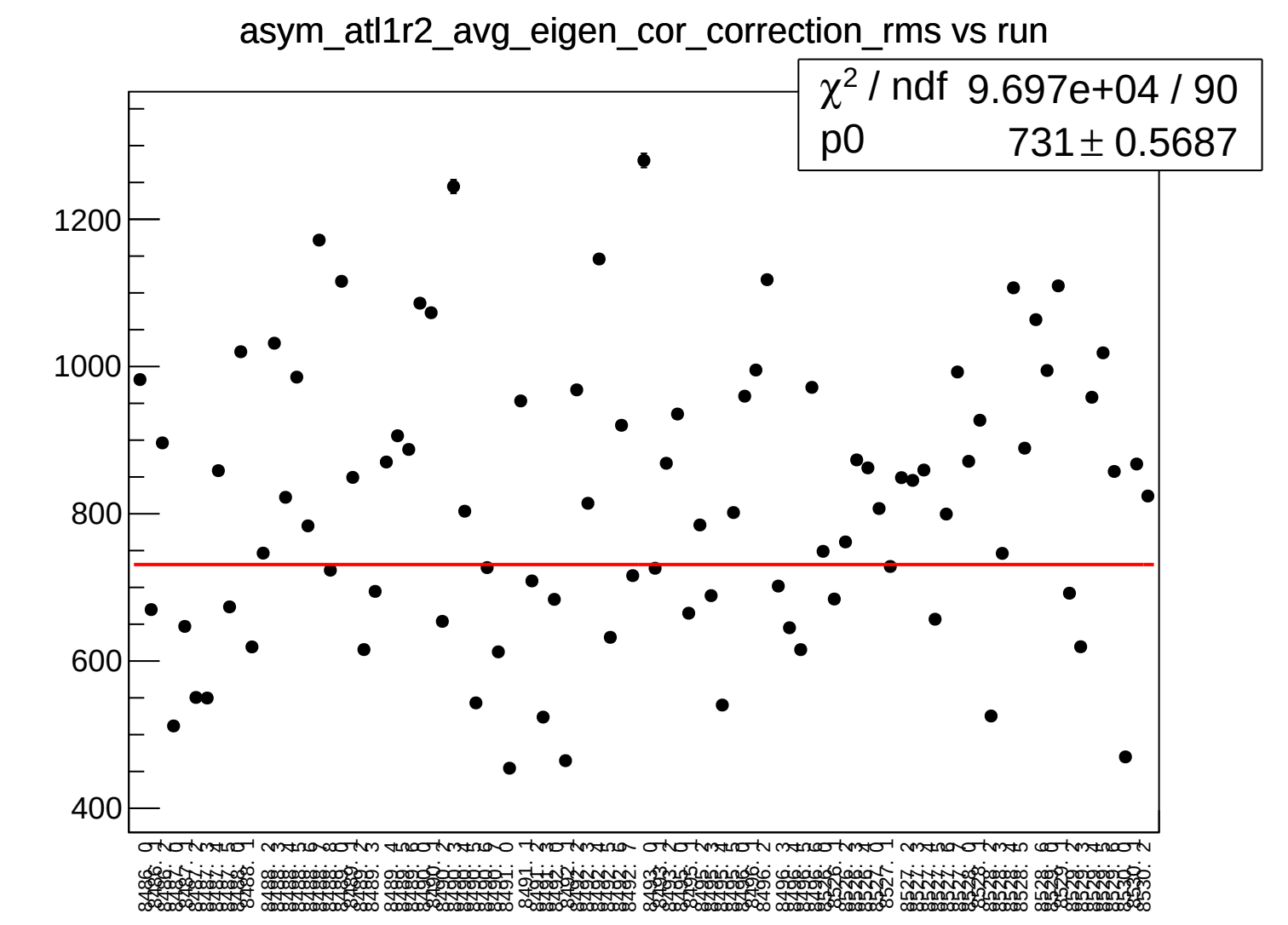

eigen_cor_asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 81.45 / 90
p0 −4775 ± 2.139e+04
pull
Entries 91
Mean −206.5
Std Dev 0

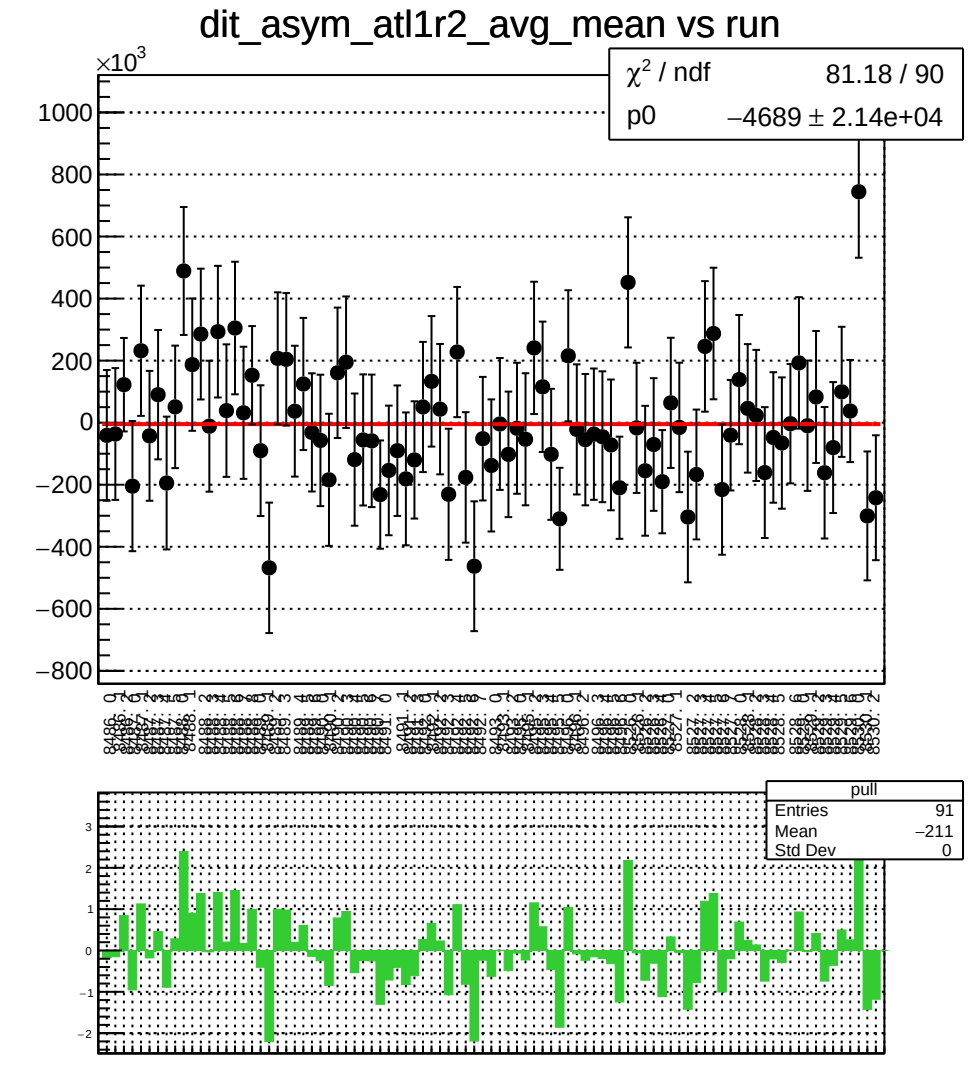

pull1D
Entries 91
Mean 0.01036
Std Dev 0.946

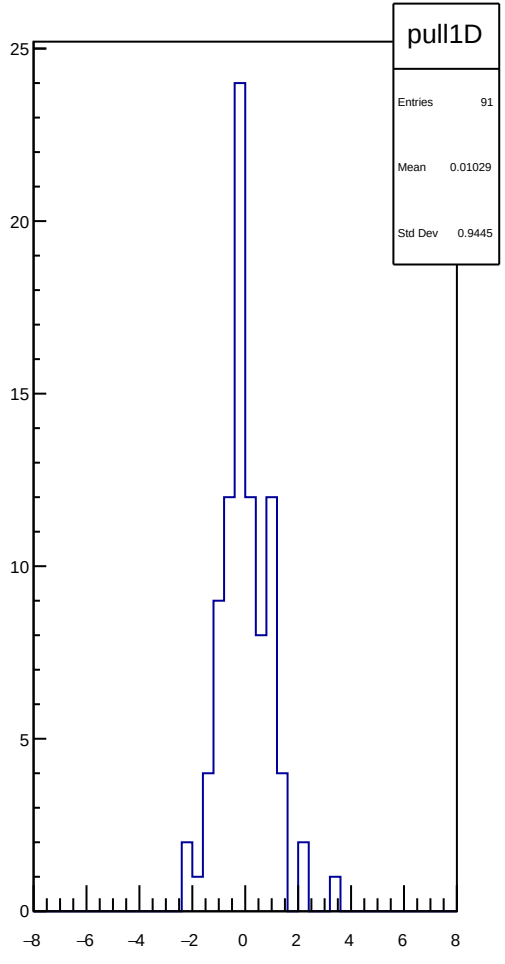

eigen_cor_asym_atl1r2_avg_rms vs run
χ² / ndf 101 / 90
p0 2e+04 ± 15.13
20400
20200
20000
19800
19600
19400

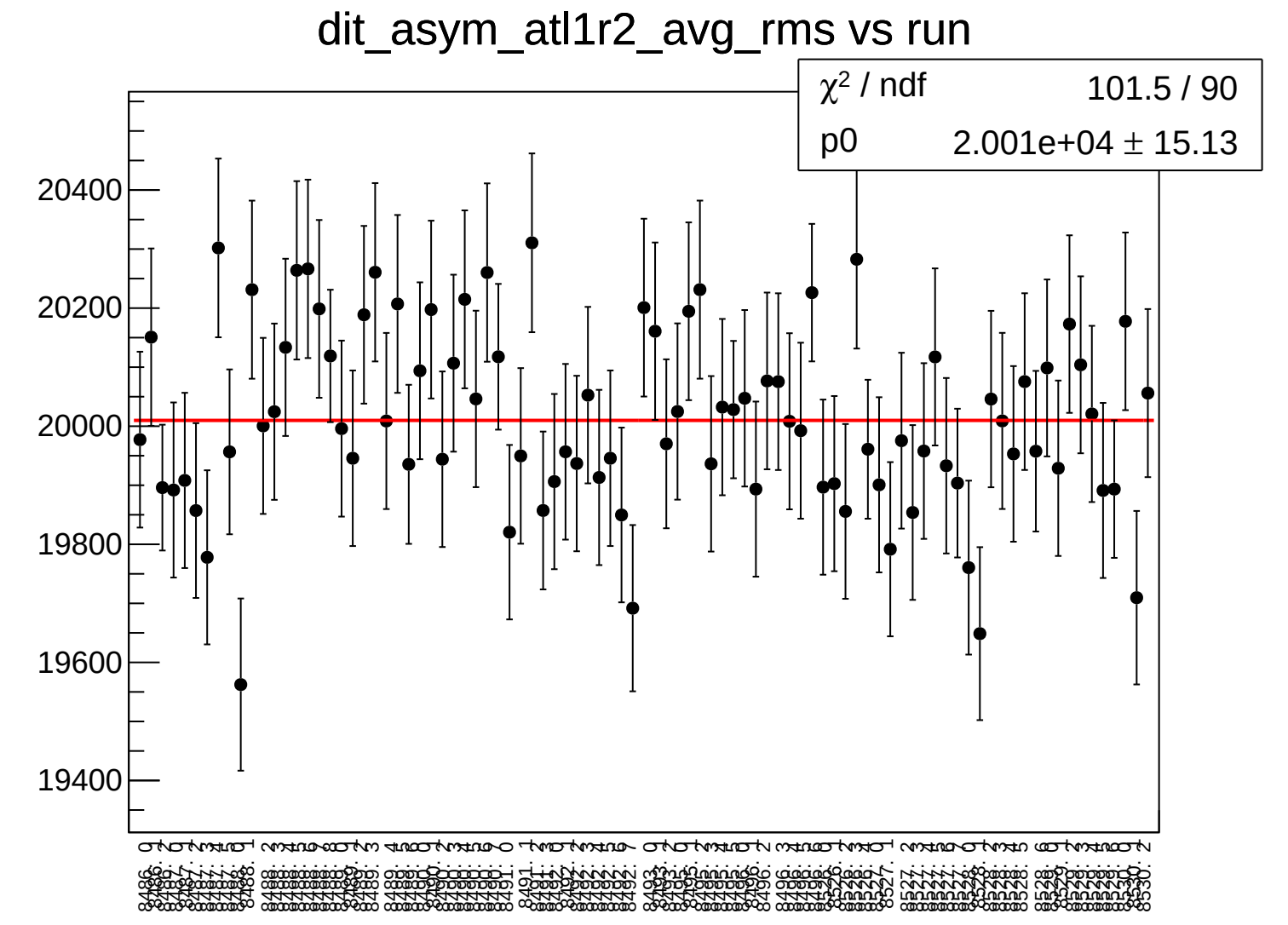

asym_atl1r2_avg_eigen_cor_correction_mean vs run
χ² / ndf 74.01 / 90
p0 1316 ± 804.3
pull
Entries 91
Mean 241.3
Std Dev 0

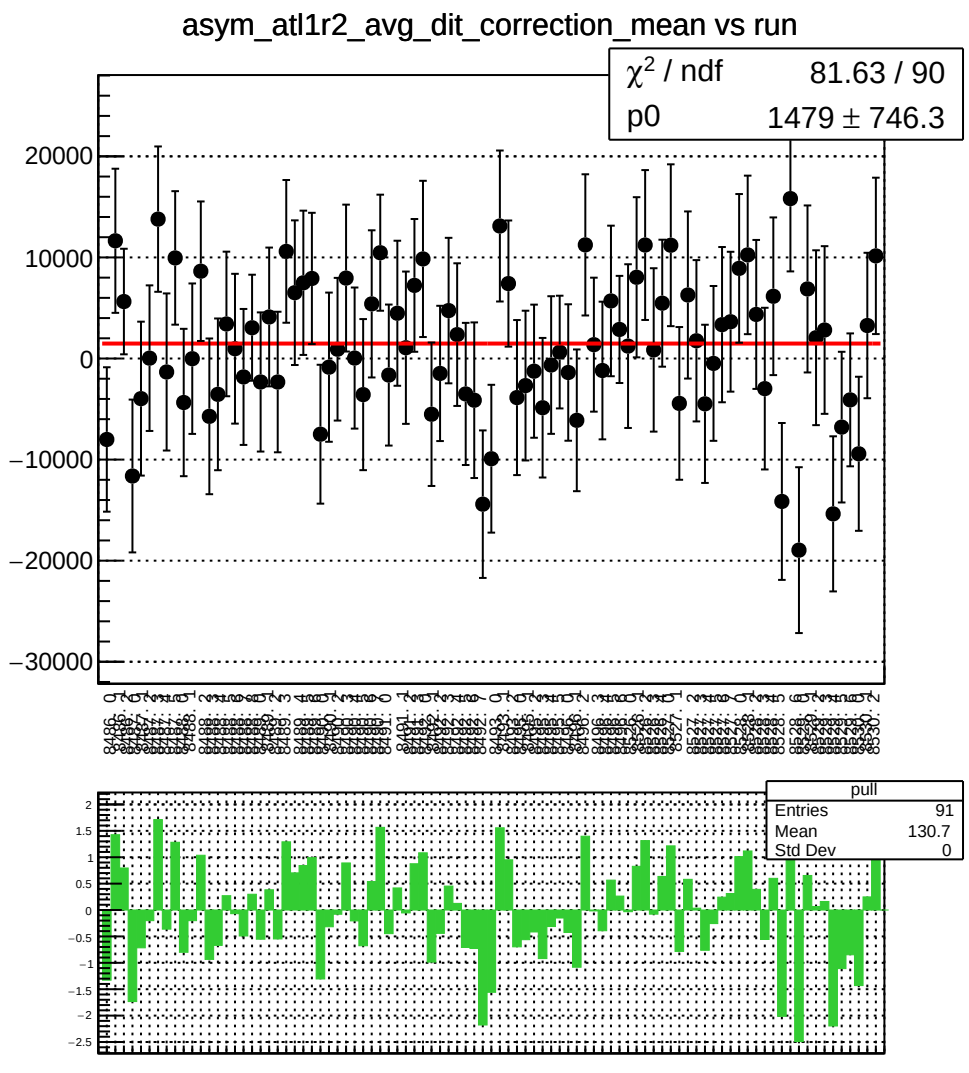

pull1D
Entries 91
Mean −0.003539
Std Dev 0.9018

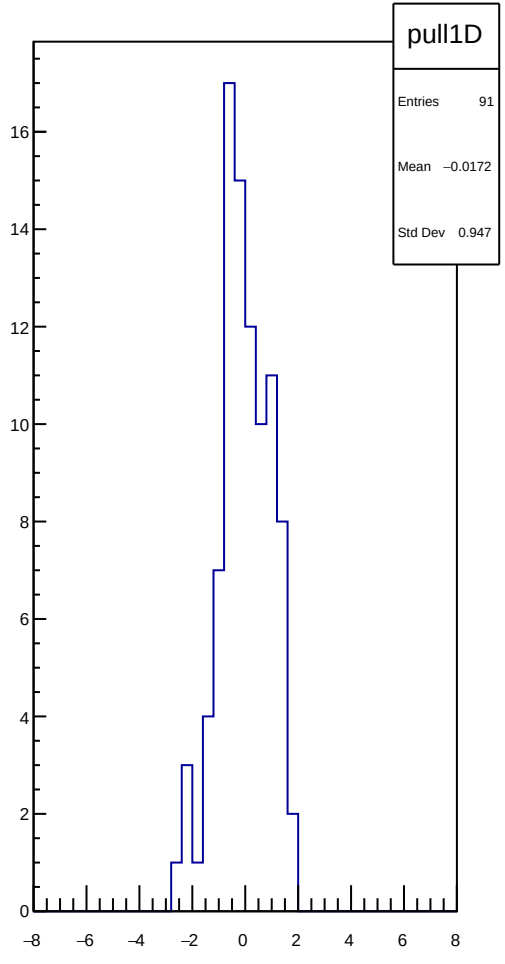

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ² / ndf 9.697e+04 / 90
p0 731 ± 0.5687
1200
1000
800
600
400

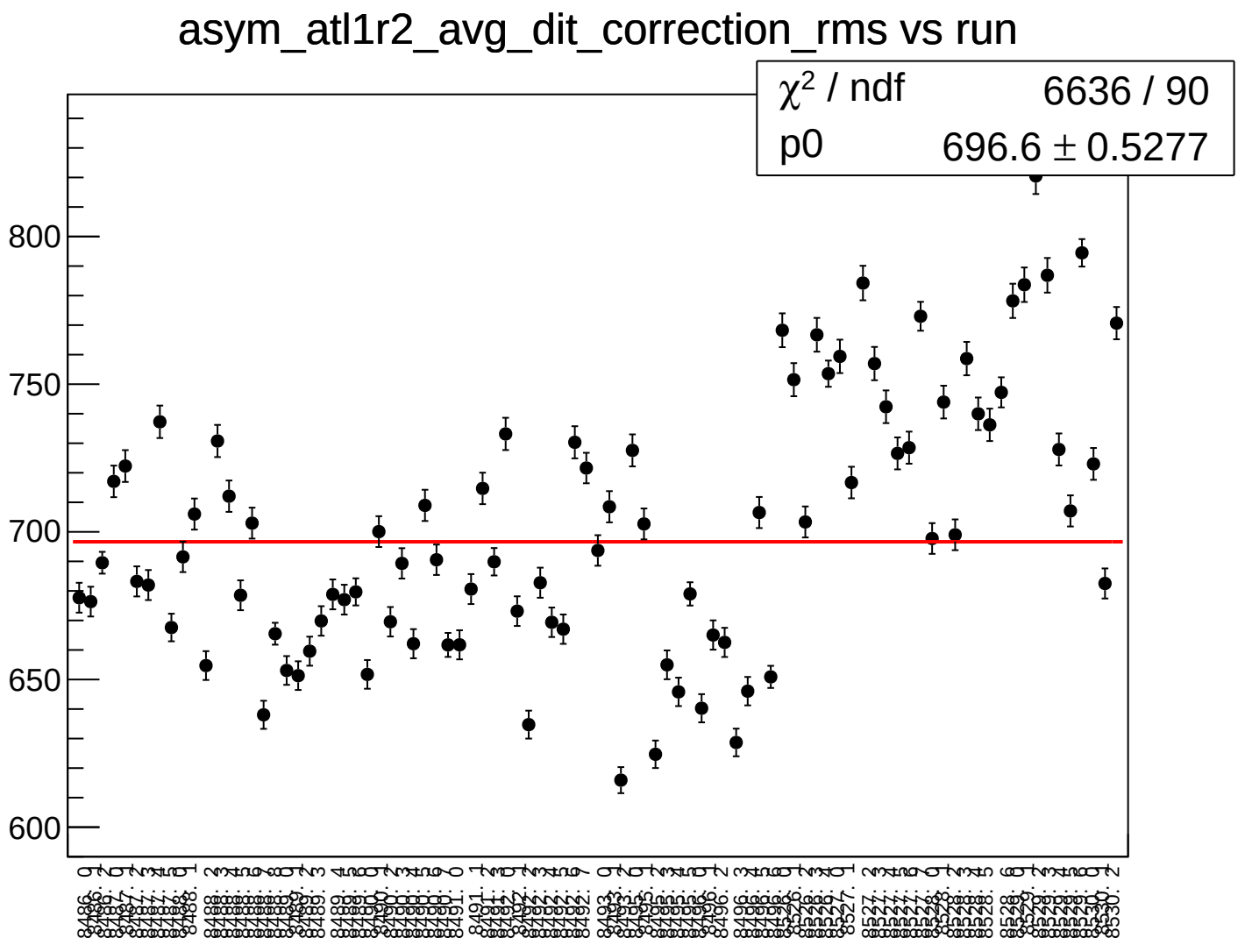

dit_asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 81.18 / 90
p0 −4689 ± 2.14e+04
pull
Entries 91
Mean −211
Std Dev 0

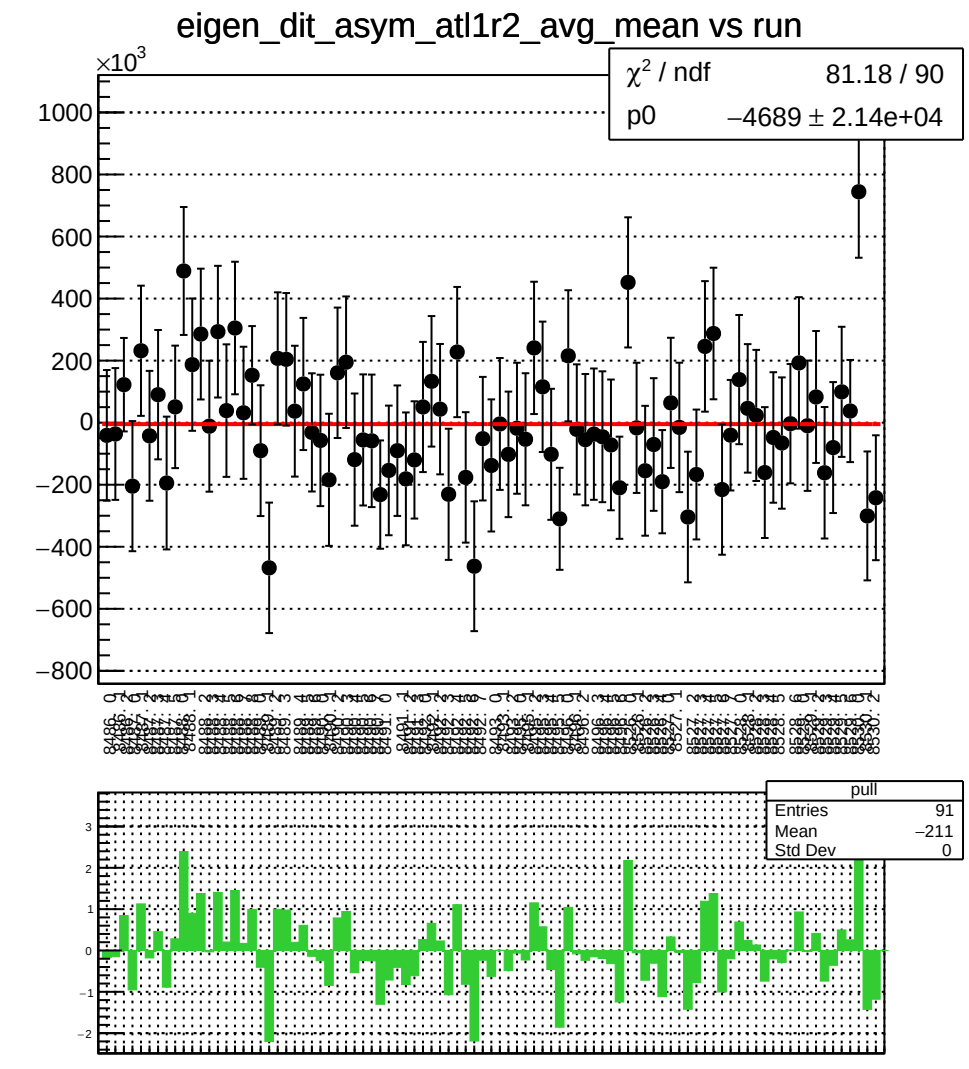

pull1D
Entries 91
Mean 0.01029
Std Dev 0.9445

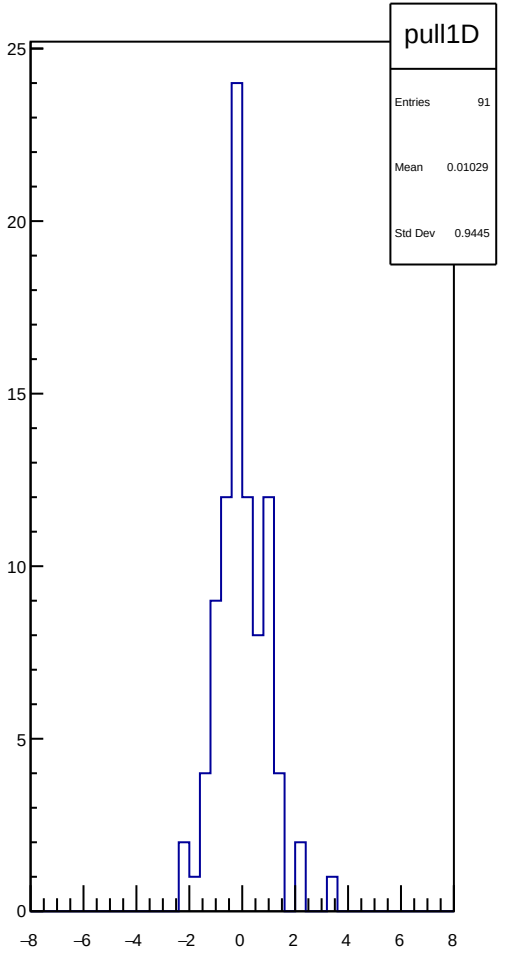

dit_asym_atl1r2_avg_rms vs run
χ² / ndf 101.5 / 90
p0 2.001e+04 ± 15.13
20400
20200
20000
19800
19600
19400

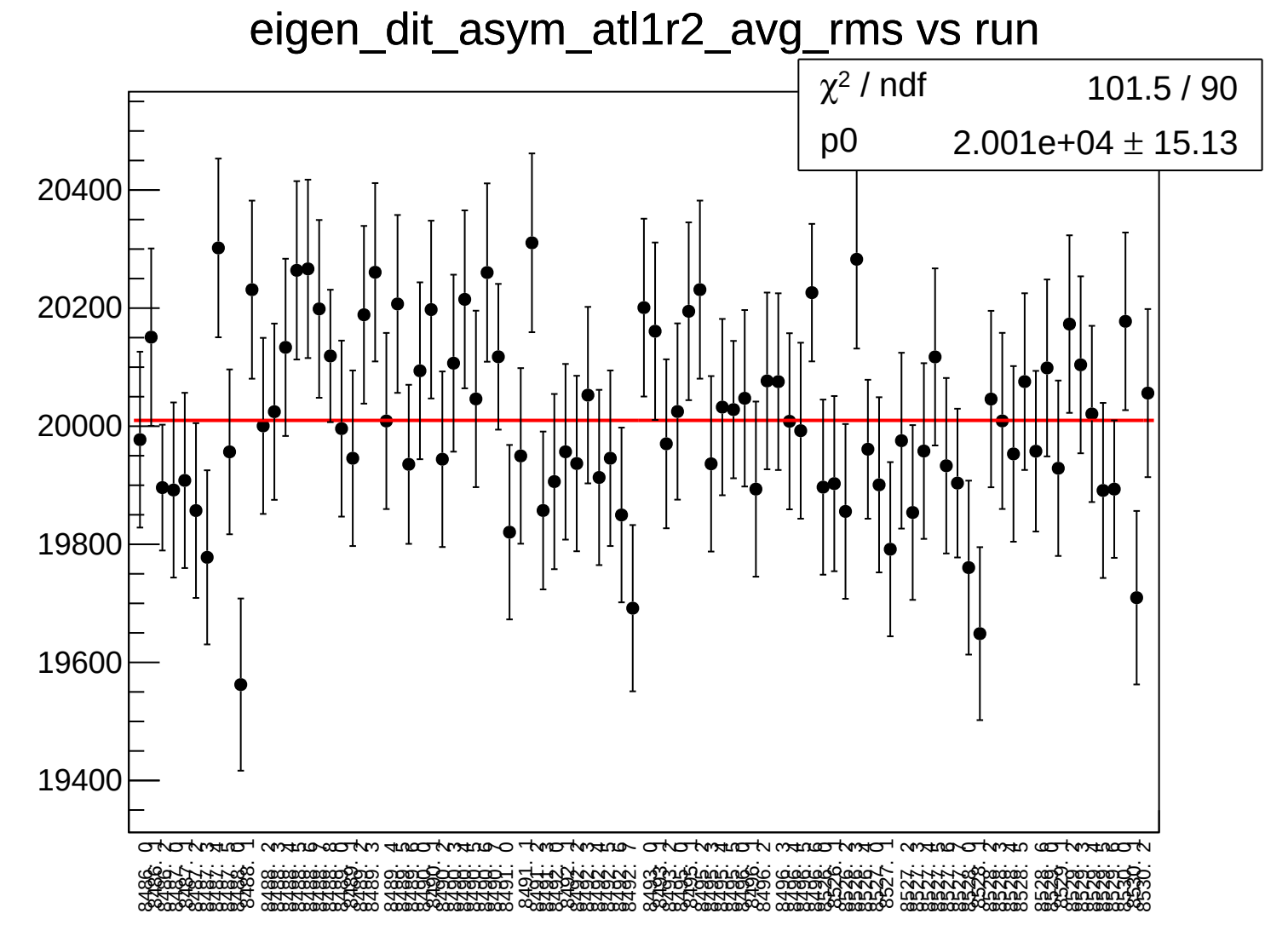

asym_atl1r2_avg_dit_correction_mean vs run
χ² / ndf 81.63 / 90
p0 1479 ± 746.3
pull
Entries 91
Mean 130.7
Std Dev 0

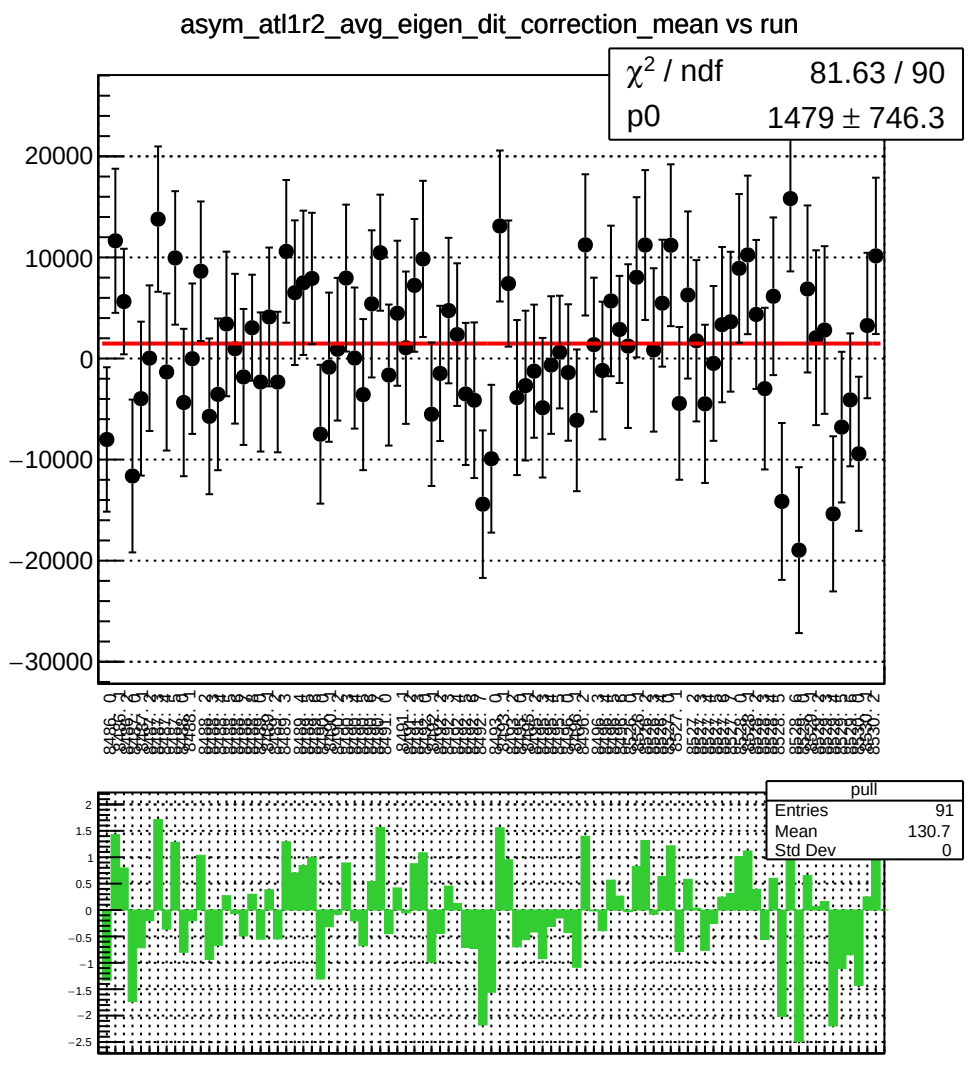

pull1D
Entries 91
Mean −0.0172
Std Dev 0.947

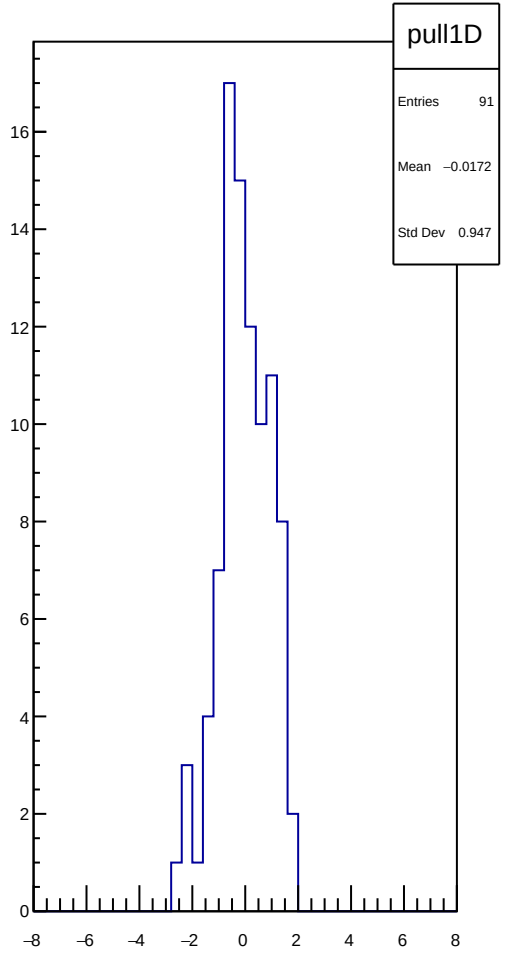

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 6636 / 90
p0 696.6 ± 0.5277
800
750
700
650
600

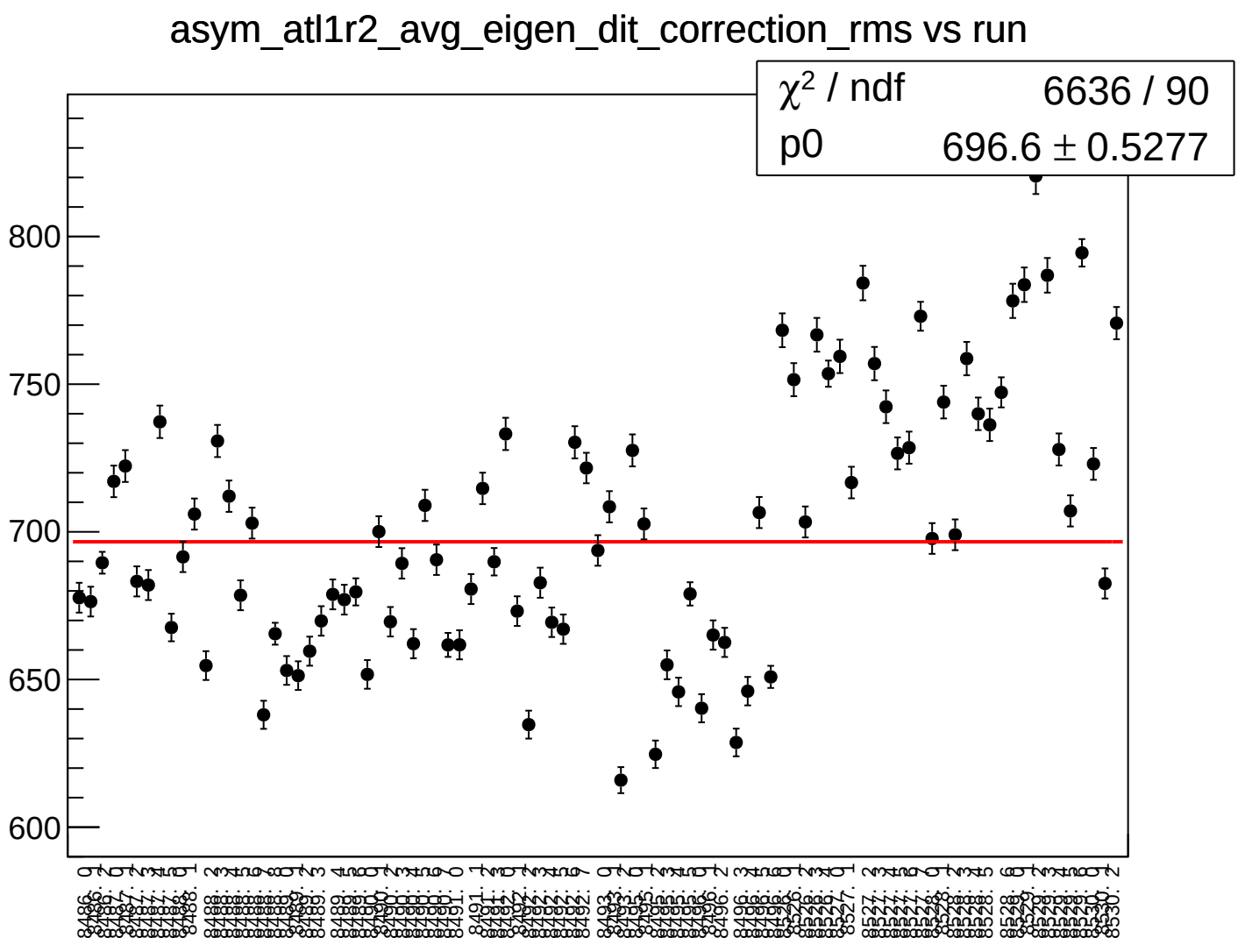

eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 81.18 / 90
p0 −4689 ± 2.14e+04
×10³
1000
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 91
Mean −211
Std Dev 0
3
2
1
0
−1
−2

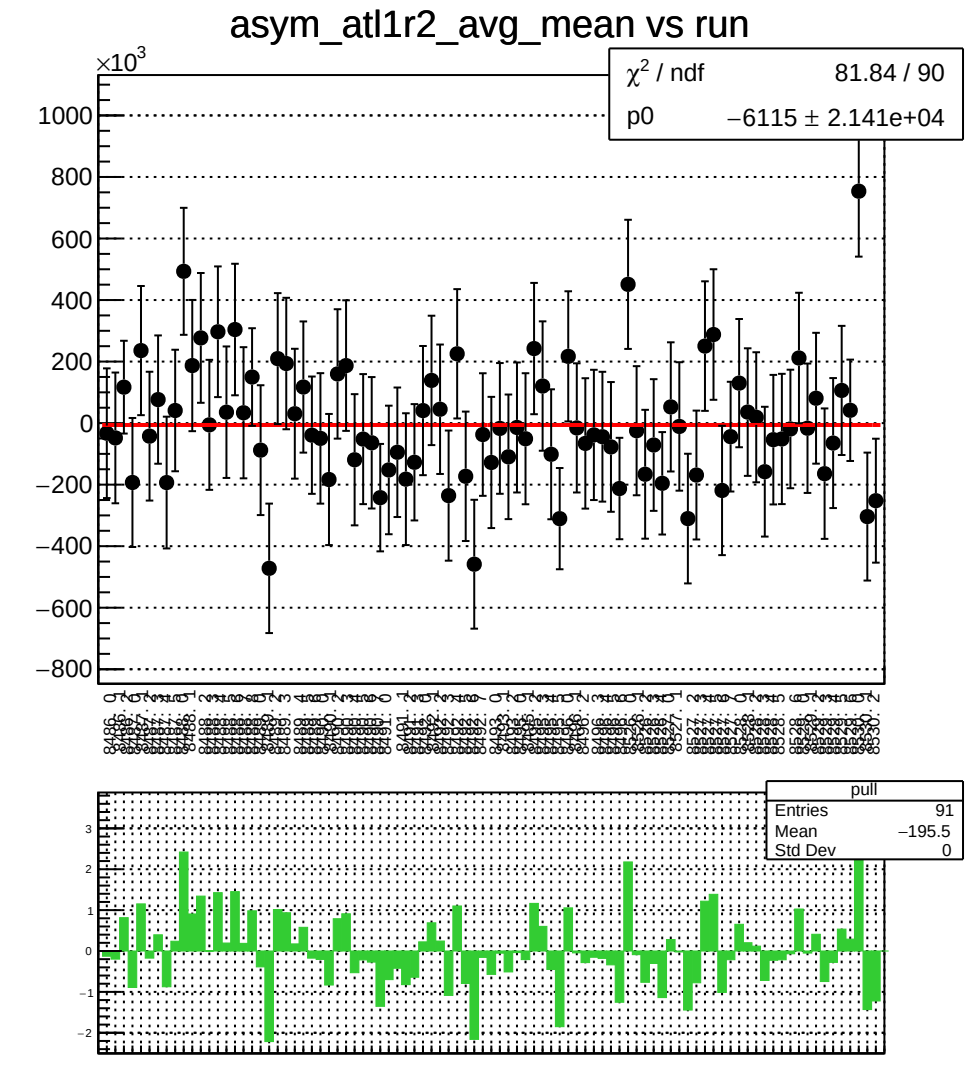

pull1D
Entries 91
Mean 0.01029
Std Dev 0.9445
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

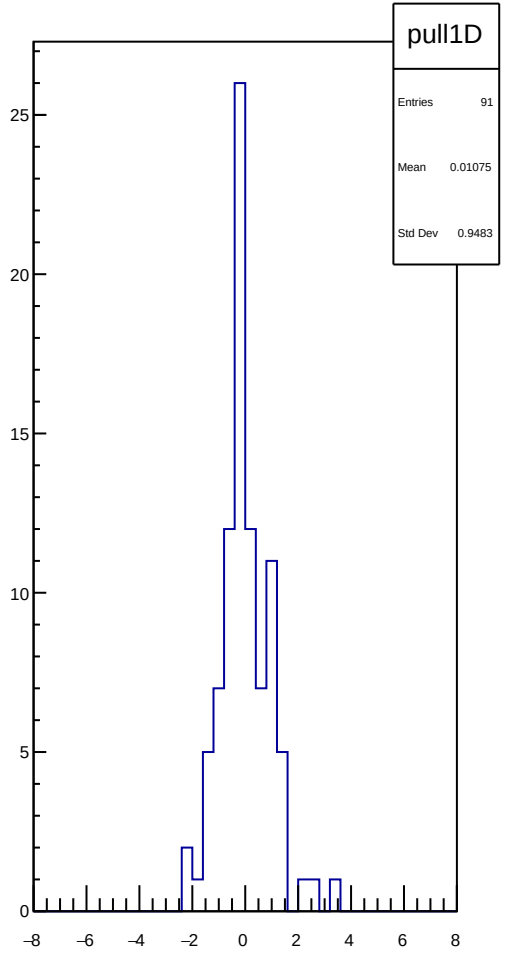

eigen_dit_asym_atl1r2_avg_rms vs run
χ² / ndf 101.5 / 90
p0 2.001e+04 ± 15.13
20400
20200
20000
19800
19600
19400

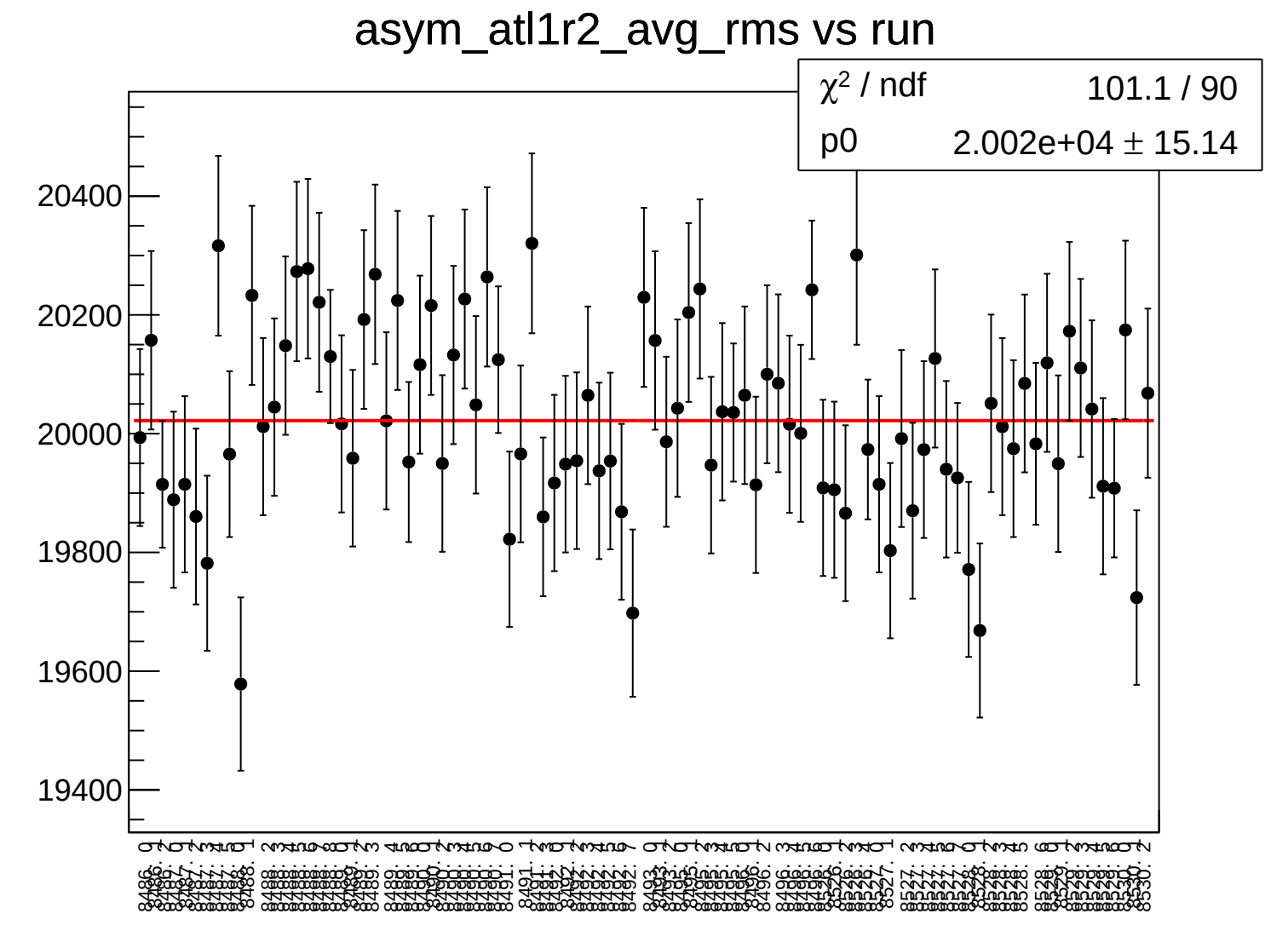

asym_atl1r2_avg_eigen_dit_correction_mean vs run
χ² / ndf 81.63 / 90
p0 1479 ± 746.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 130.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

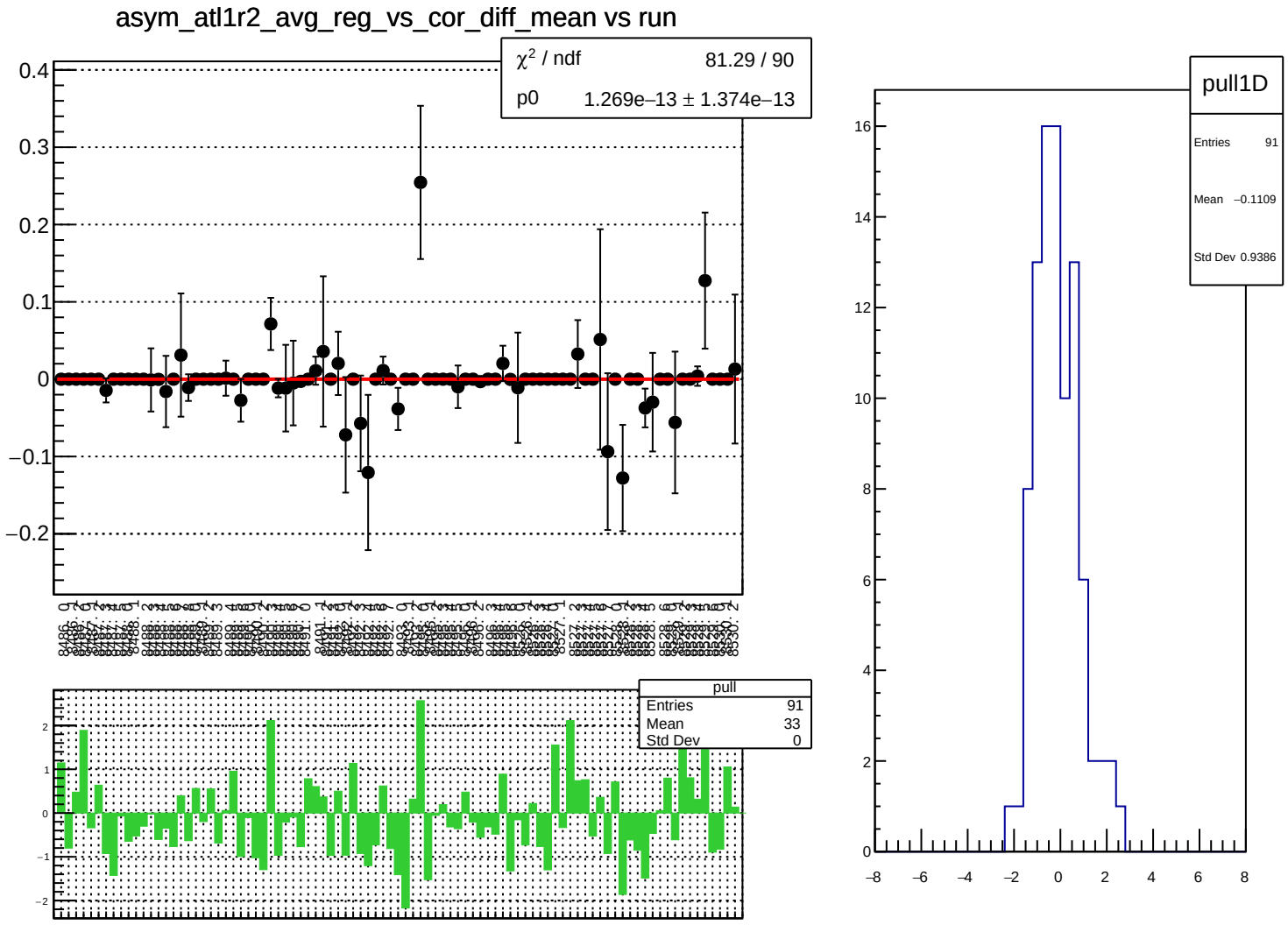

pull1D
Entries 91
Mean −0.0172
Std Dev 0.947
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

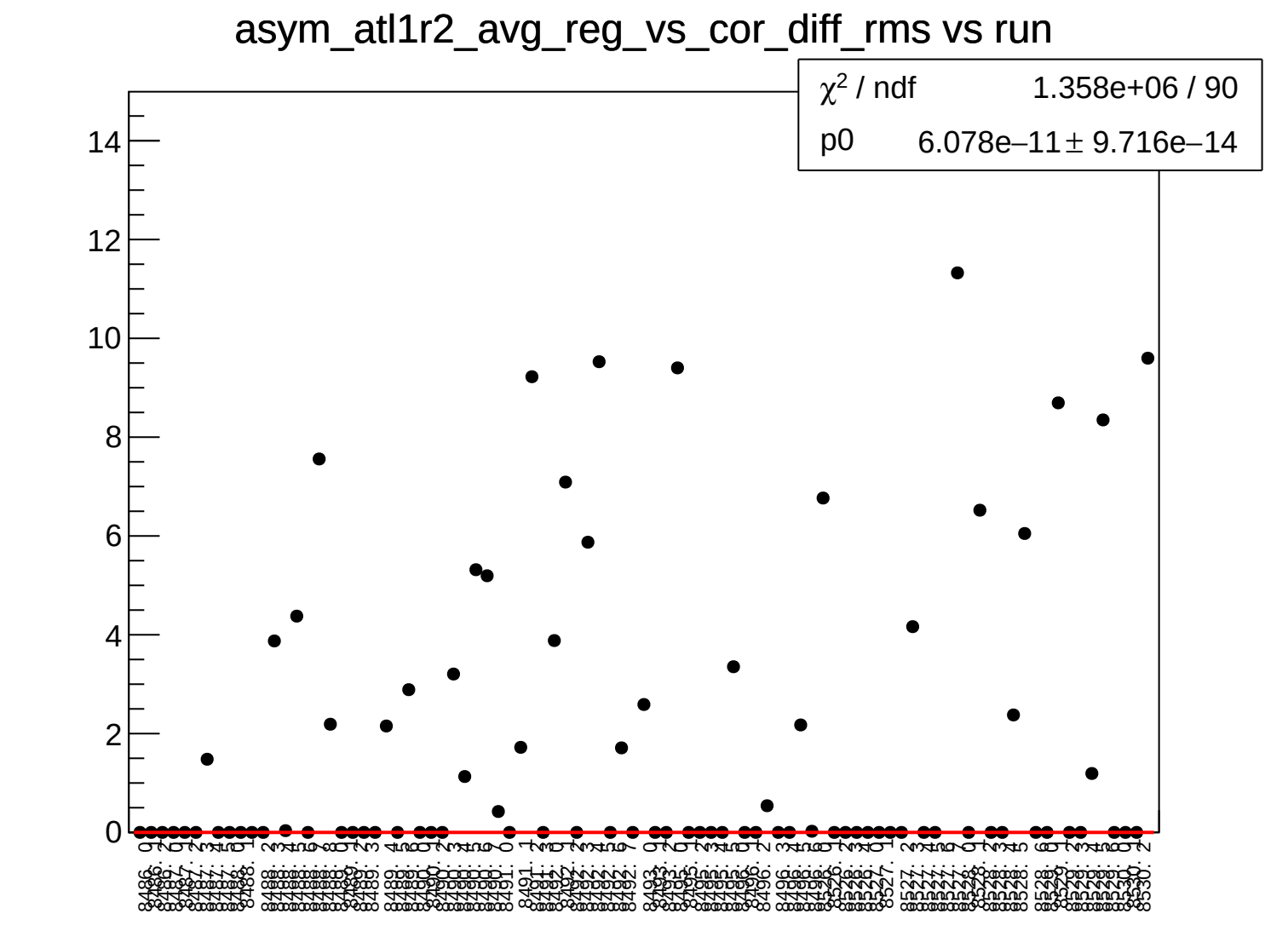

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 6636 / 90
p0 696.6 ± 0.5277
800
750
700
650
600

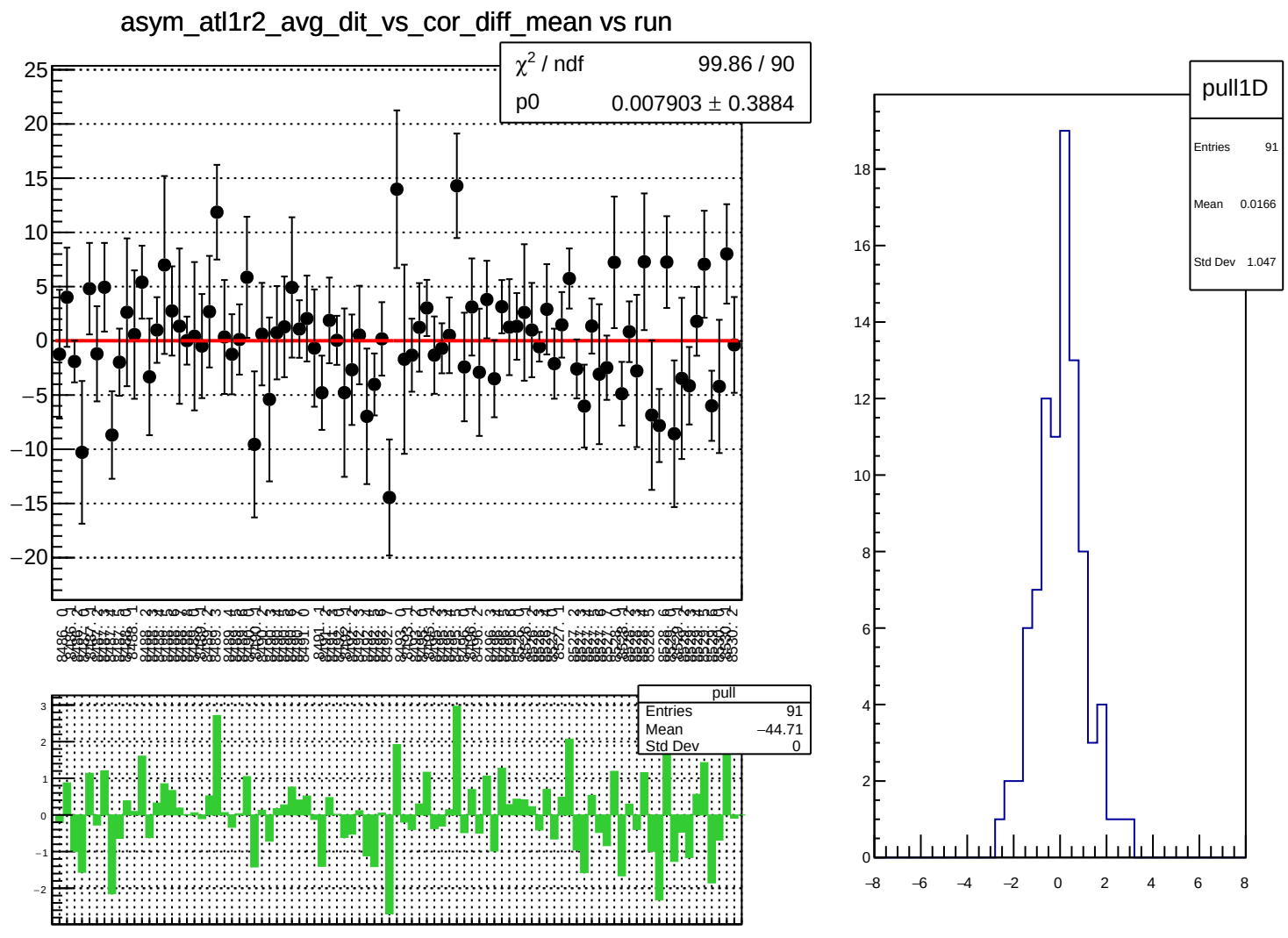

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 81.84 / 90
p0 −6115 ± 2.141e+04
pull
Entries 91
Mean −195.5
Std Dev 0

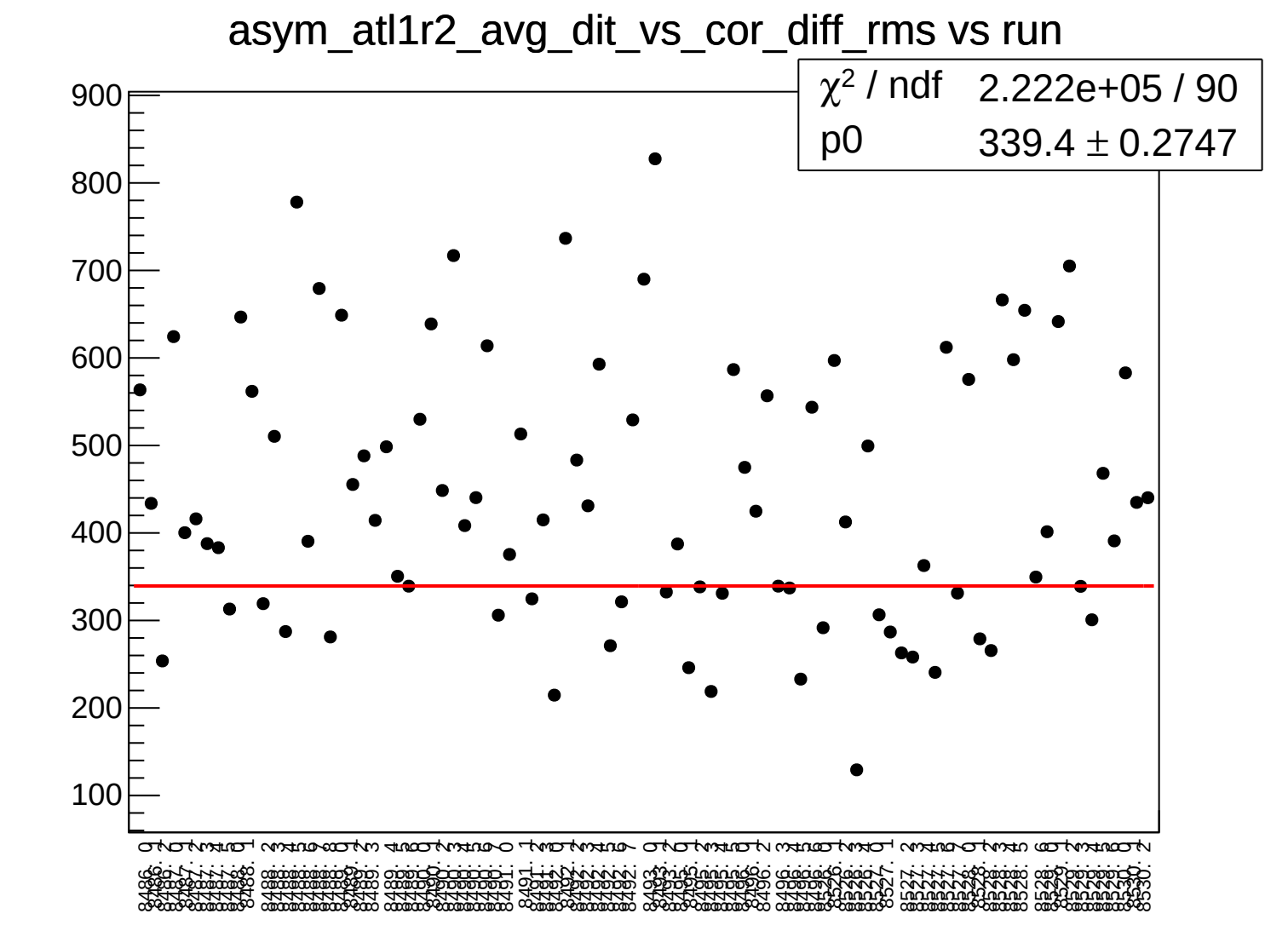

pull1D
Entries 91
Mean 0.01075
Std Dev 0.9483

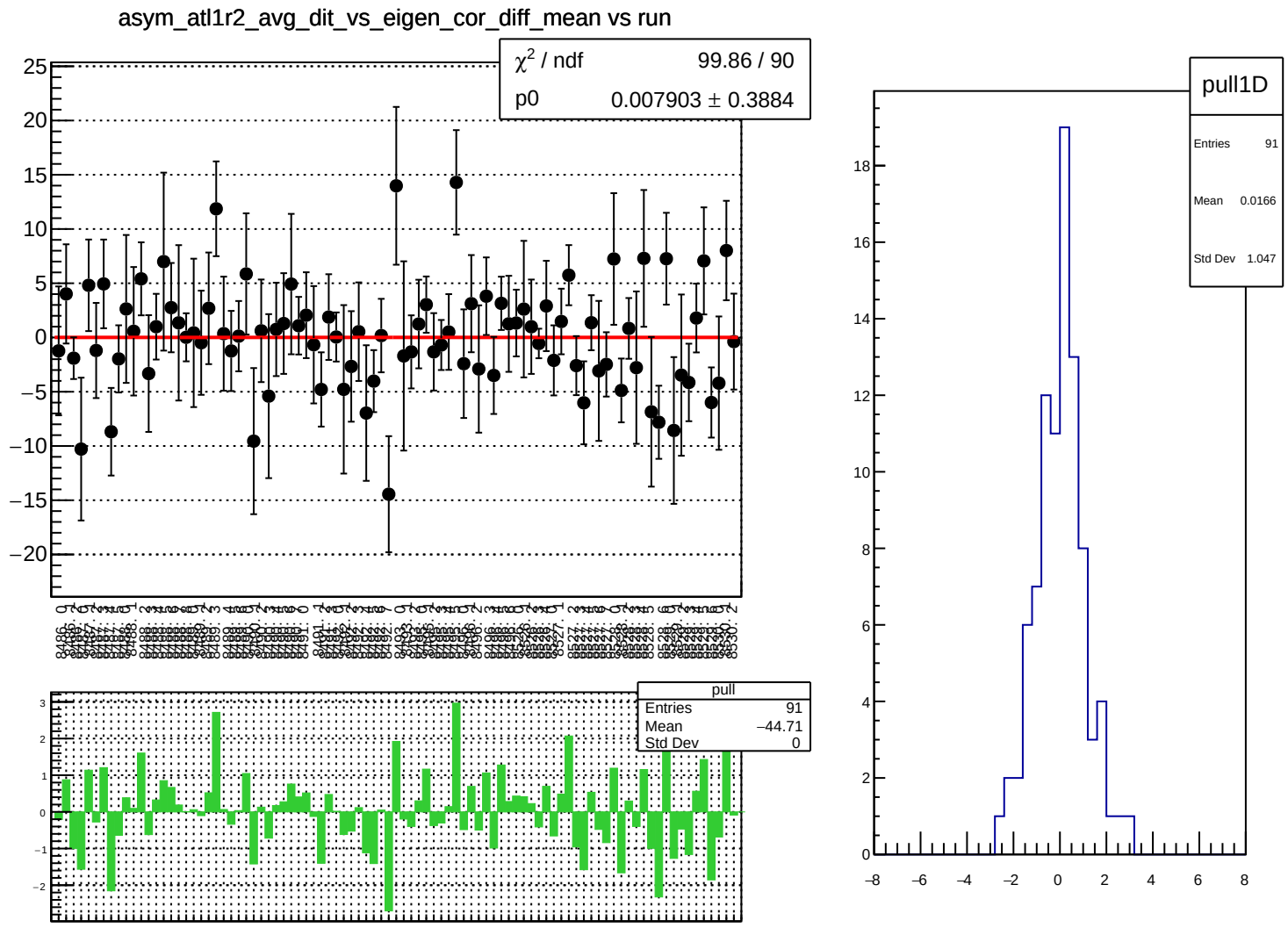

asym_atl1r2_avg_rms vs run
χ² / ndf 101.1 / 90
p0 2.002e+04 ± 15.14
20400
20200
20000
19800
19600
19400

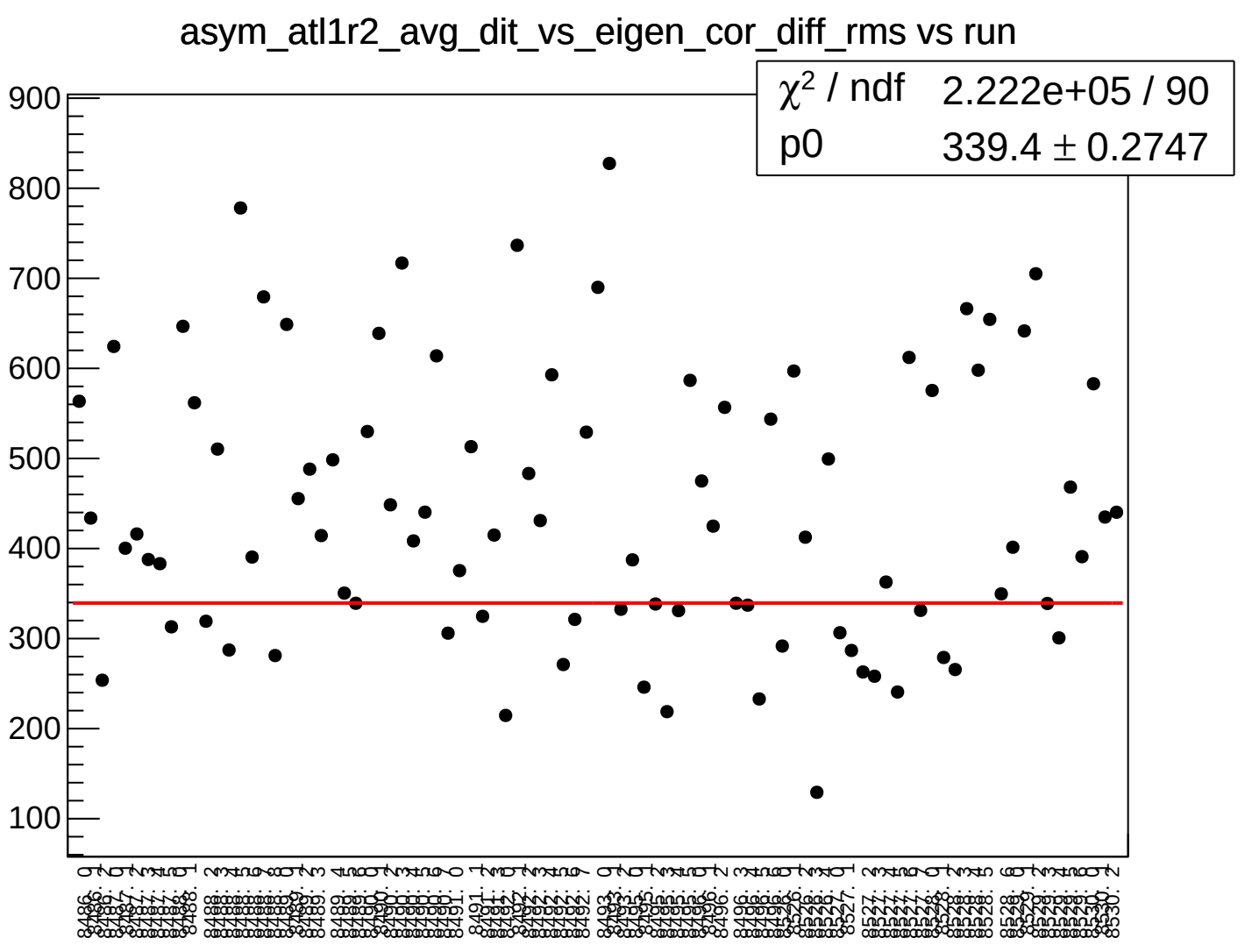

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 81.29 / 90
p0 1.269e−13 ± 1.374e−13
pull
Entries 91
Mean 33
Std Dev 0
pull1D
Entries 91
Mean −0.1109
Std Dev 0.9386

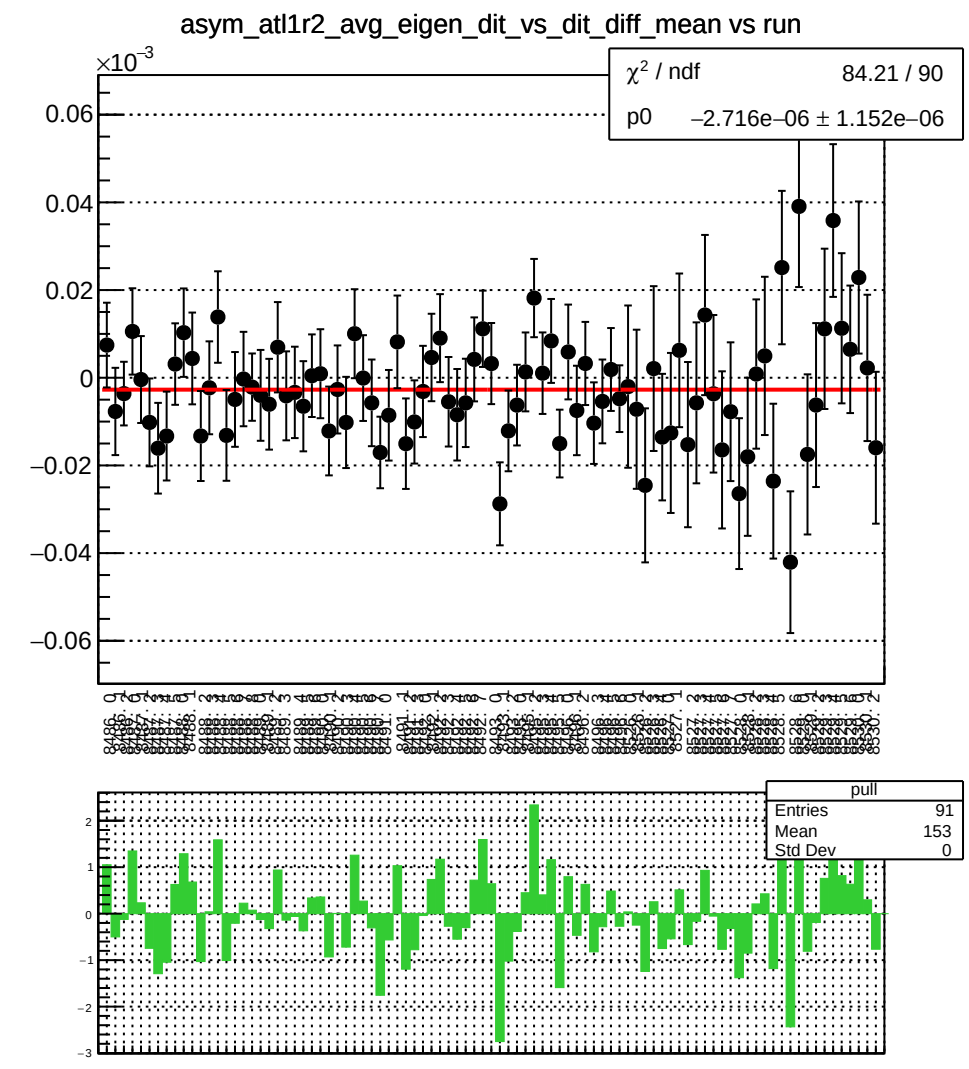

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.358e+06 / 90
p0 6.078e−11 ± 9.716e−14
0
2
4
6
8
10
12
14

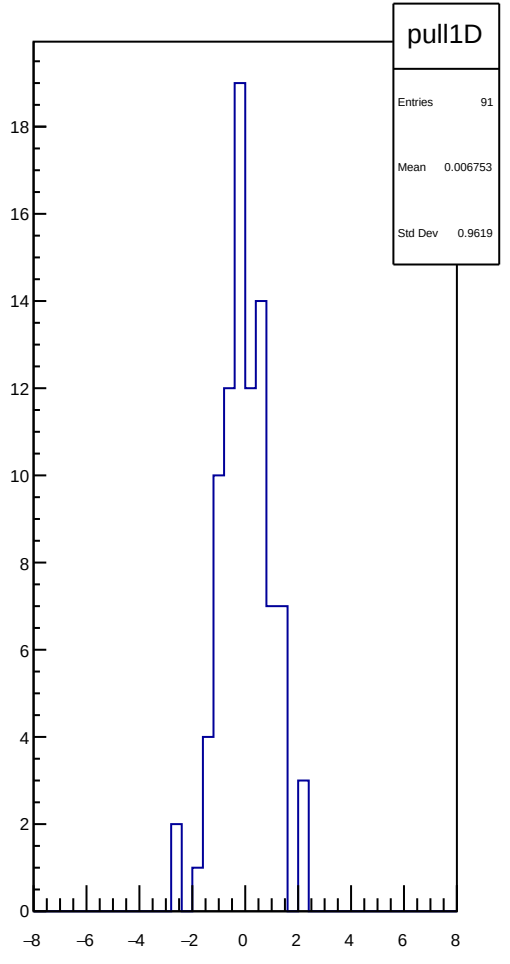

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 99.86 / 90
p0 0.007903 ± 0.3884
pull
Entries 91
Mean −44.71
Std Dev 0
pull1D
Entries 91
Mean 0.0166
Std Dev 1.047

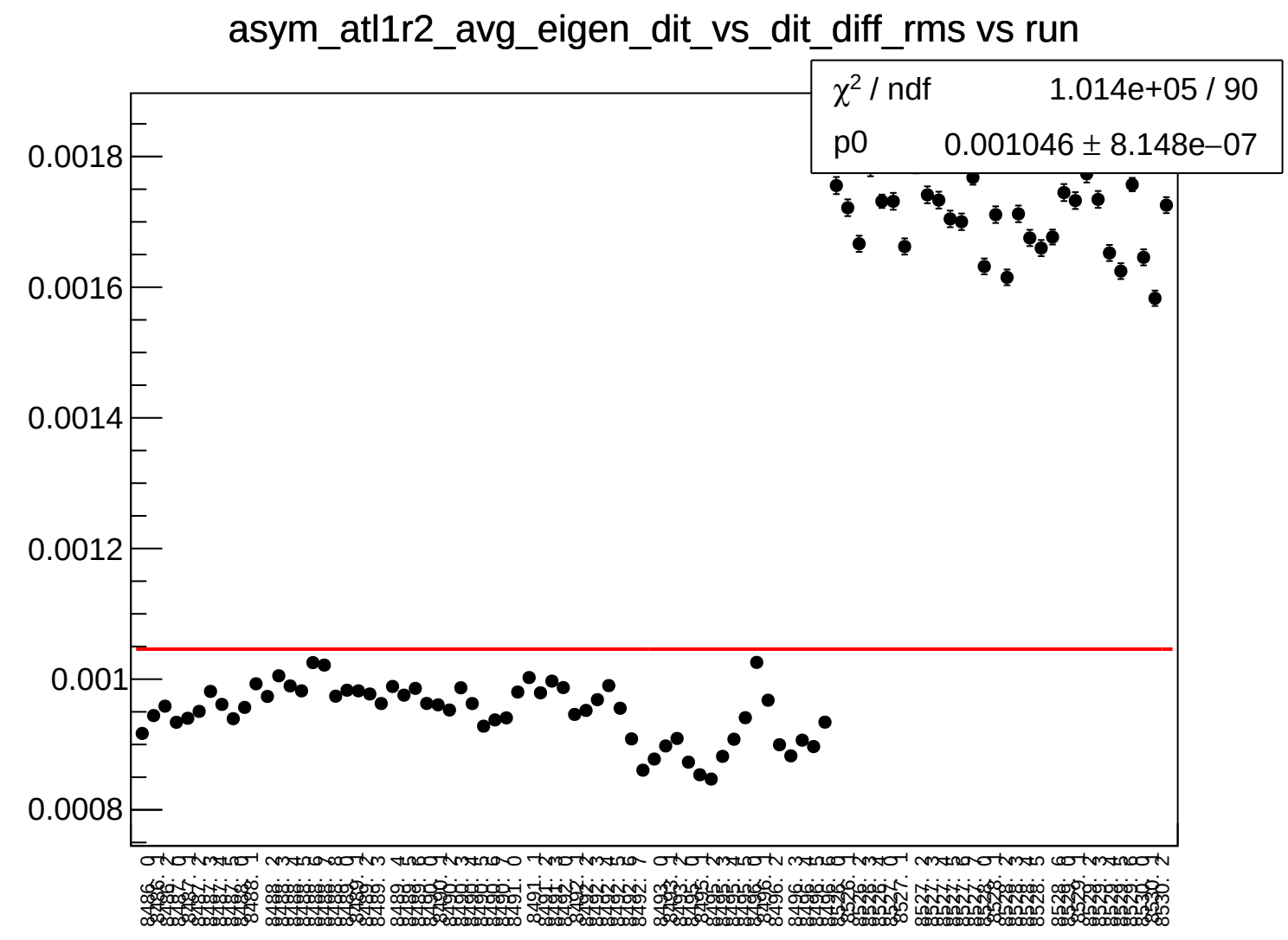

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.222e+05 / 90
p0 339.4 ± 0.2747
900
800
700
600
500
400
300
200
100

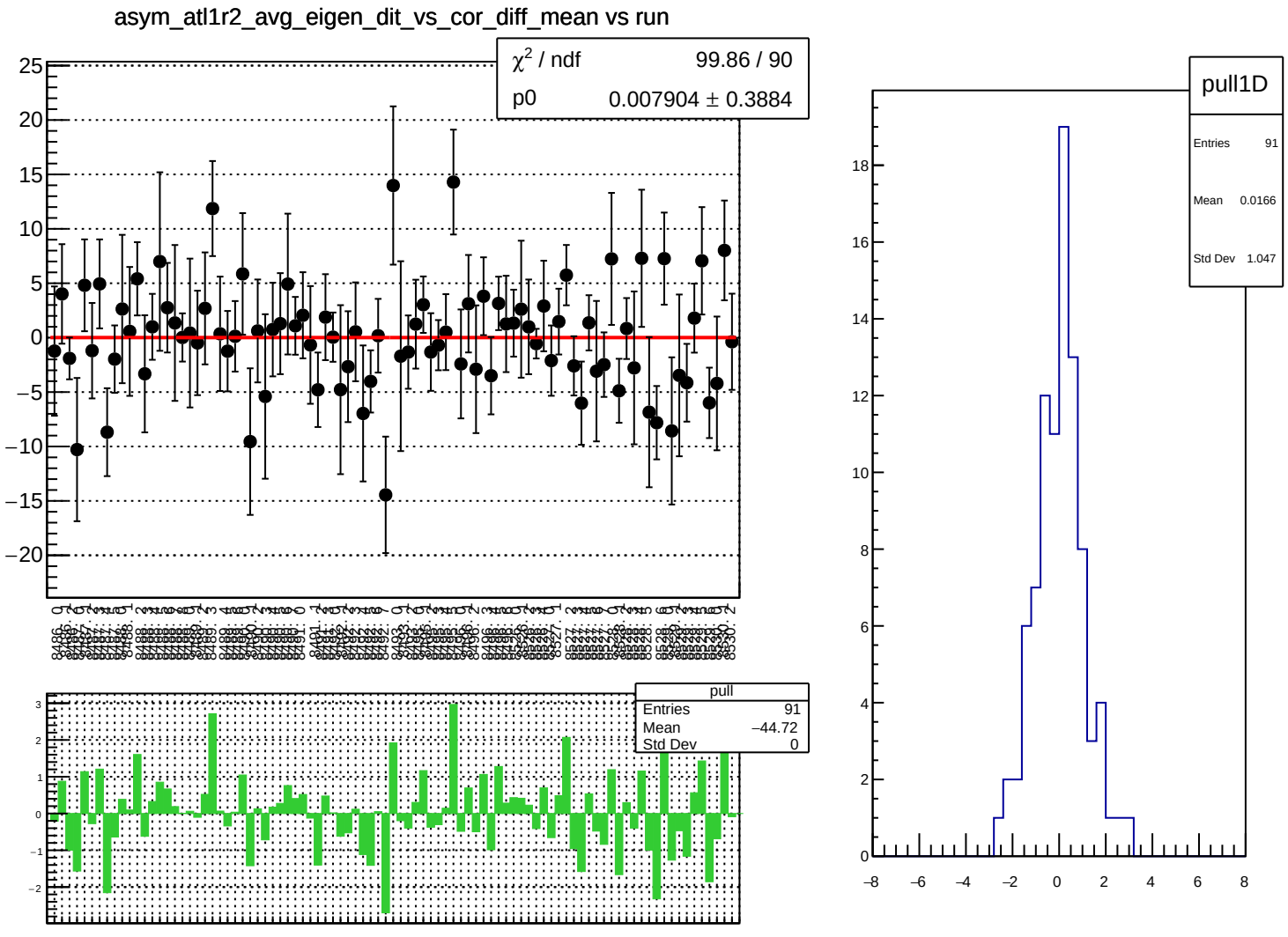

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.86 / 90
p0 0.007903 ± 0.3884
pull
Entries 91
Mean −44.71
Std Dev 0
pull1D
Entries 91
Mean 0.0166
Std Dev 1.047

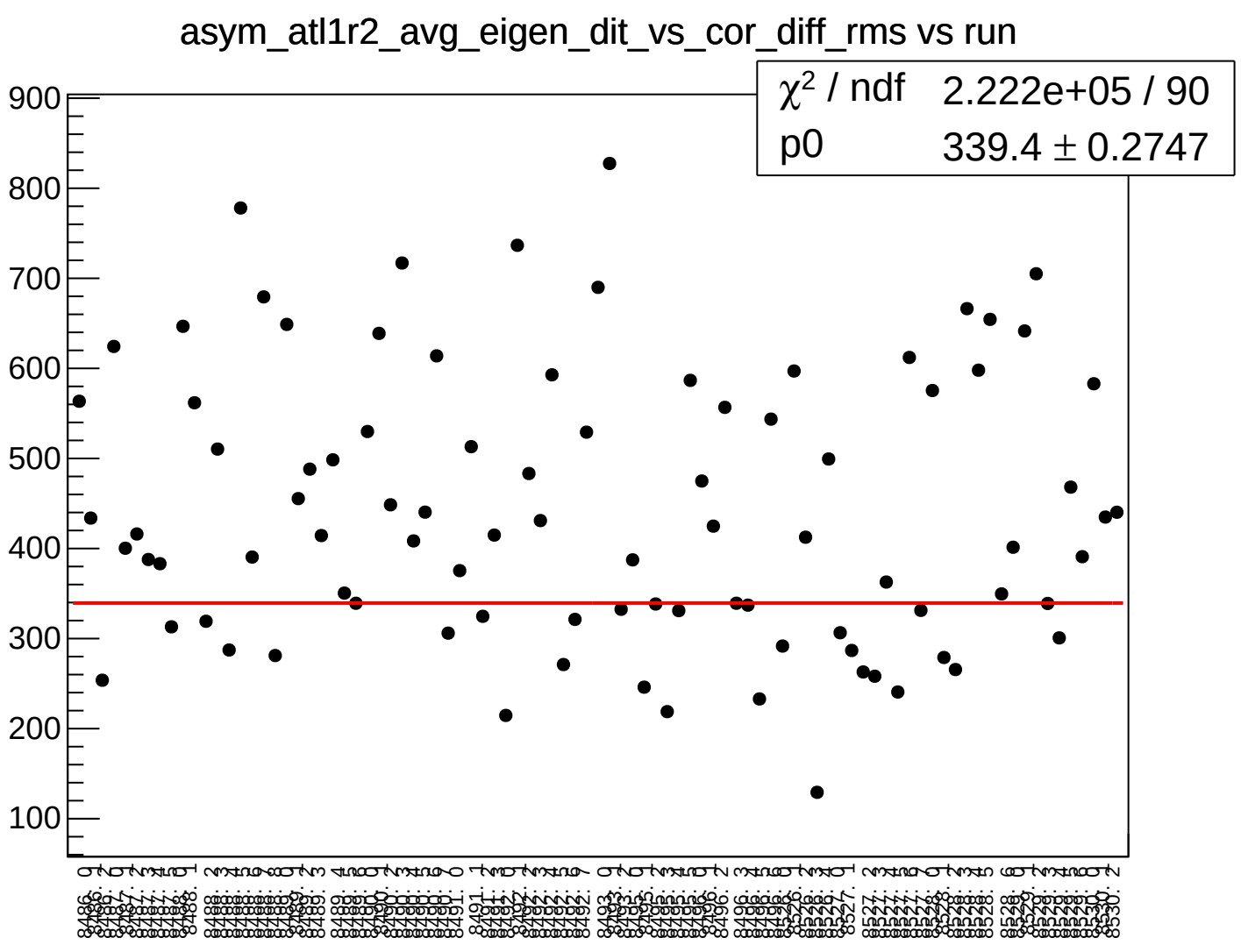

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.222e+05 / 90
p0 339.4 ± 0.2747
900
800
700
600
500
400
300
200
100

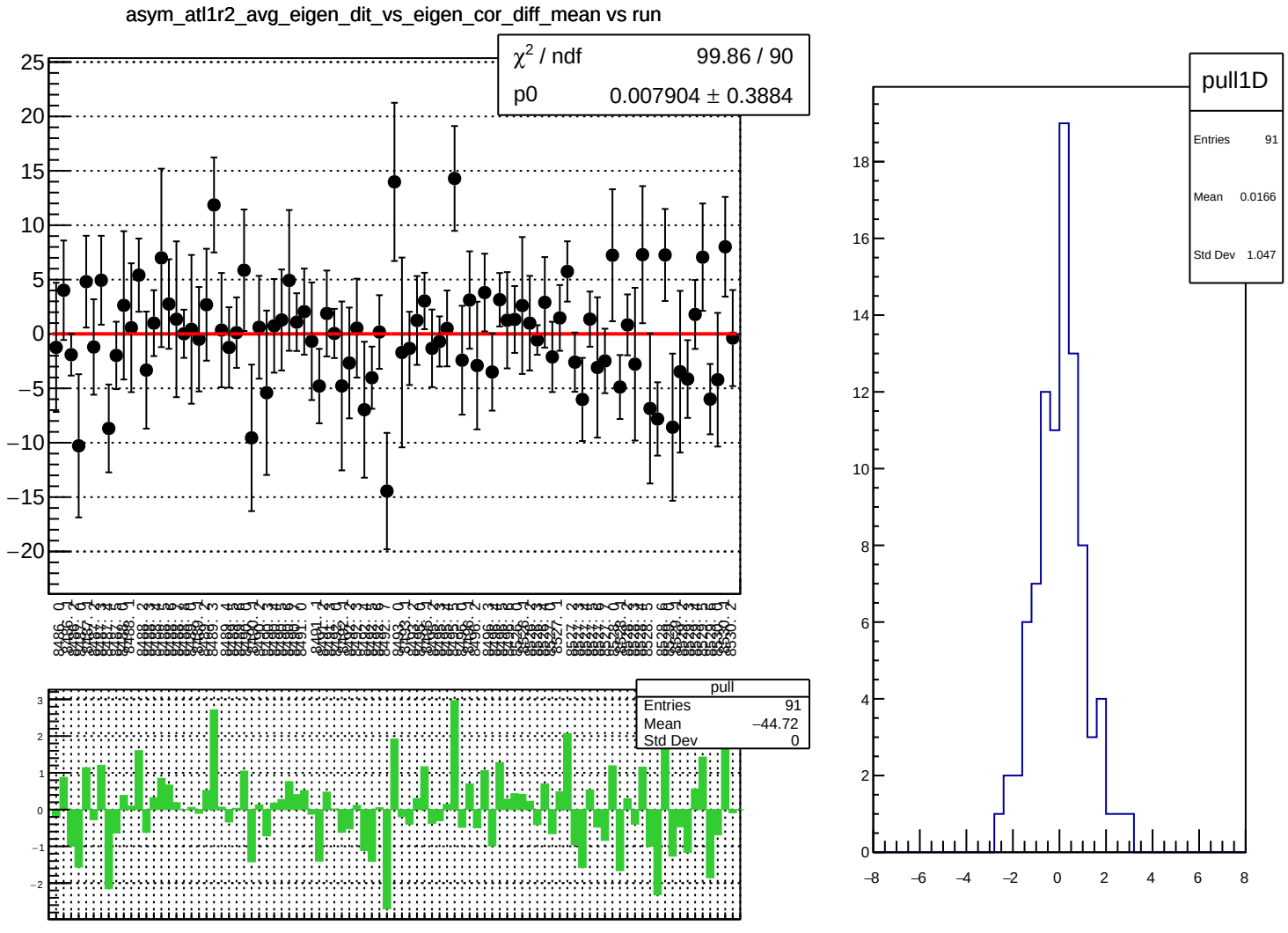

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.21 / 90
p0 −2.716e−06 ± 1.152e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 91
Mean 153
Std Dev 0
2
1
0
−1
−2
−3

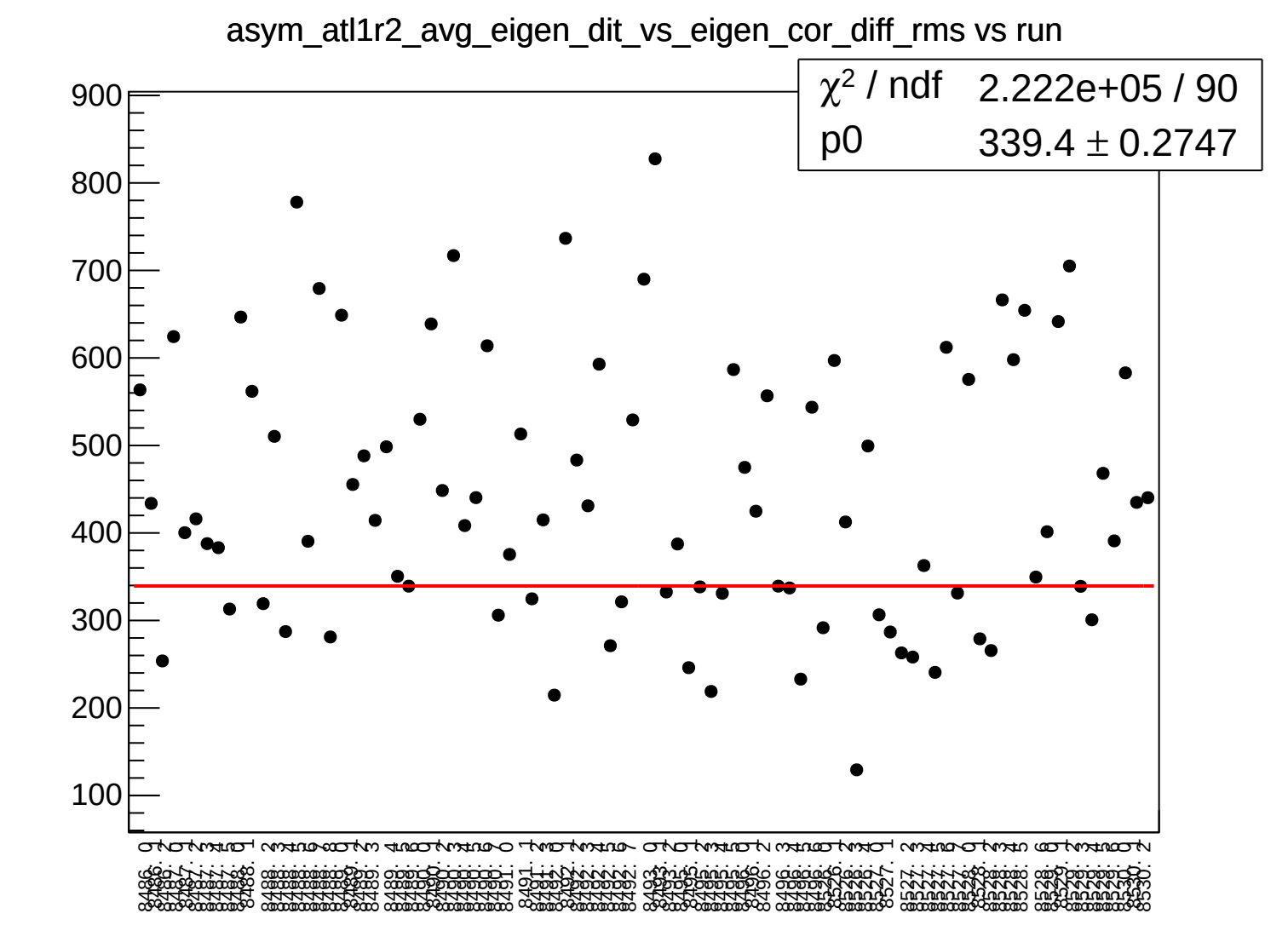

pull1D
Entries 91
Mean 0.006753
Std Dev 0.9619
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

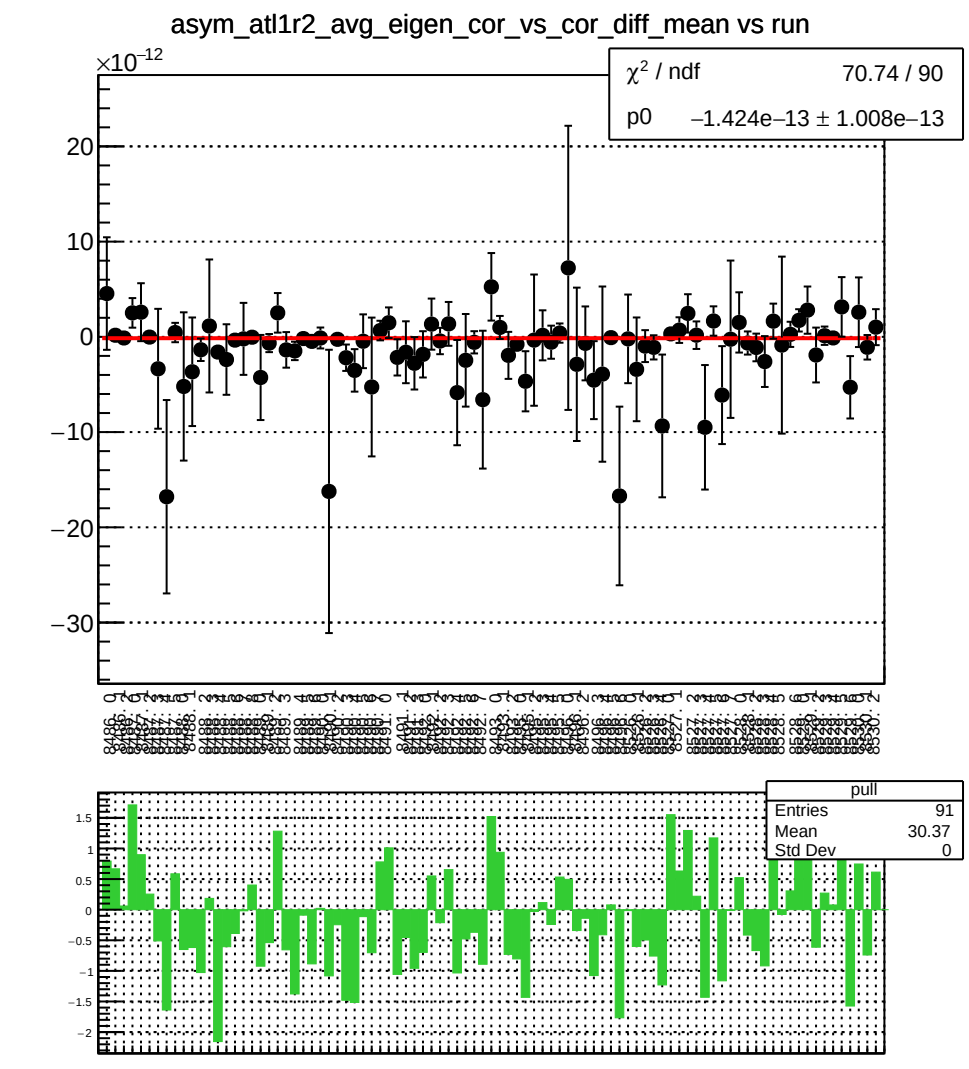

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.014e+05 / 90
p0 0.001046 ± 8.148e−07
0.0018
0.0016
0.0014
0.0012
0.001
0.0008

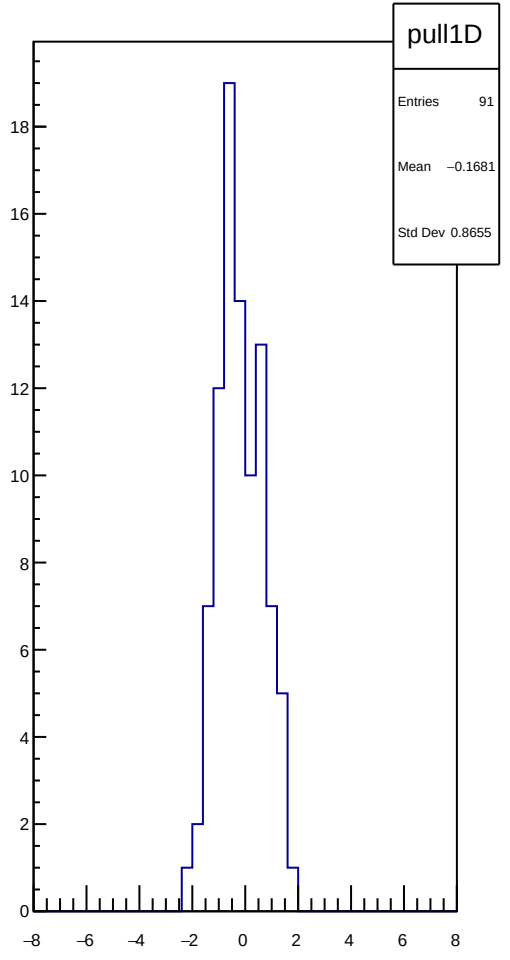

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.86 / 90
p0 0.007904 ± 0.3884
pull
Entries 91
Mean −44.72
Std Dev 0
pull1D
Entries 91
Mean 0.0166
Std Dev 1.047

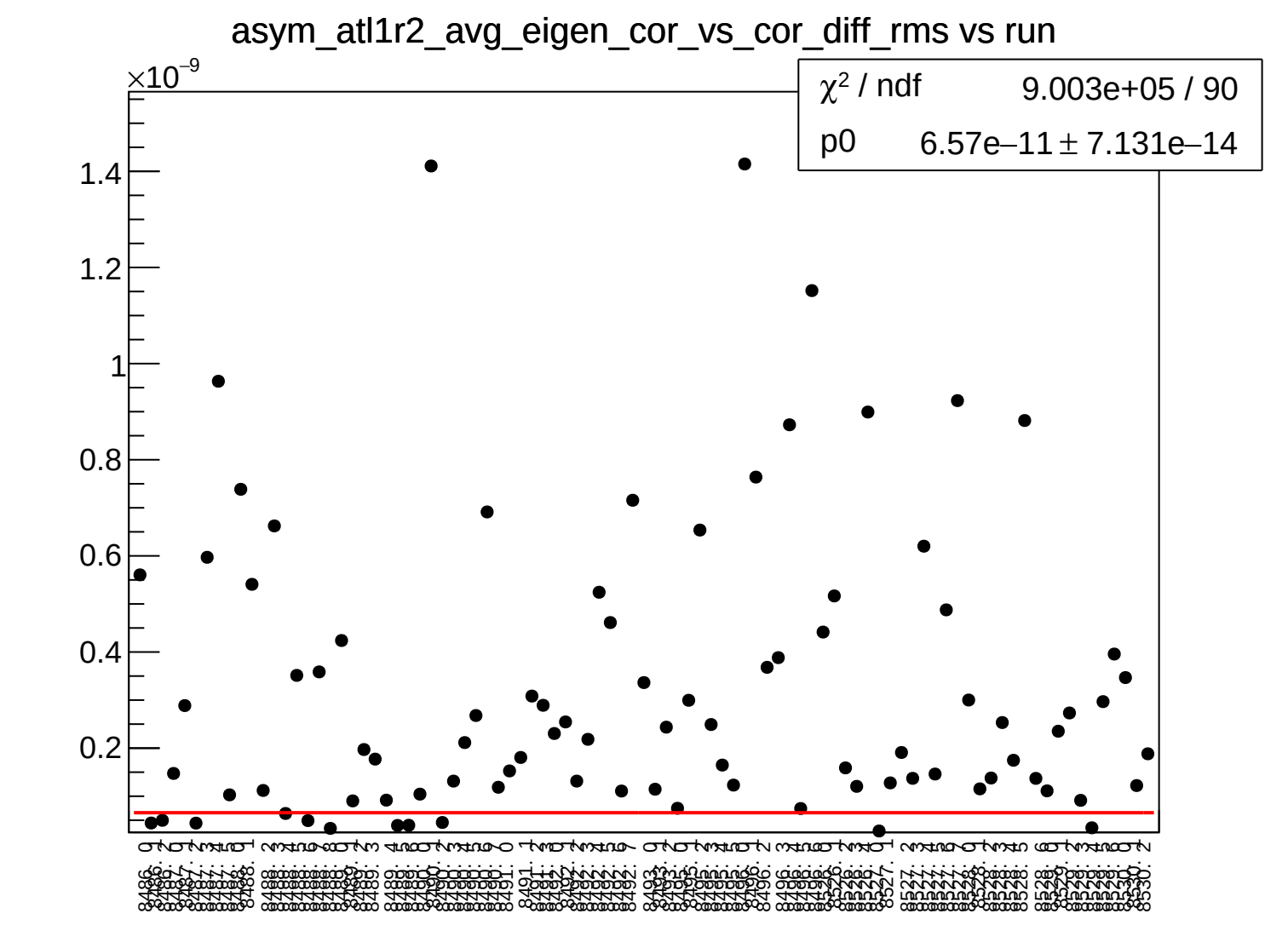

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.222e+05 / 90
p0 339.4 ± 0.2747
900
800
700
600
500
400
300
200
100

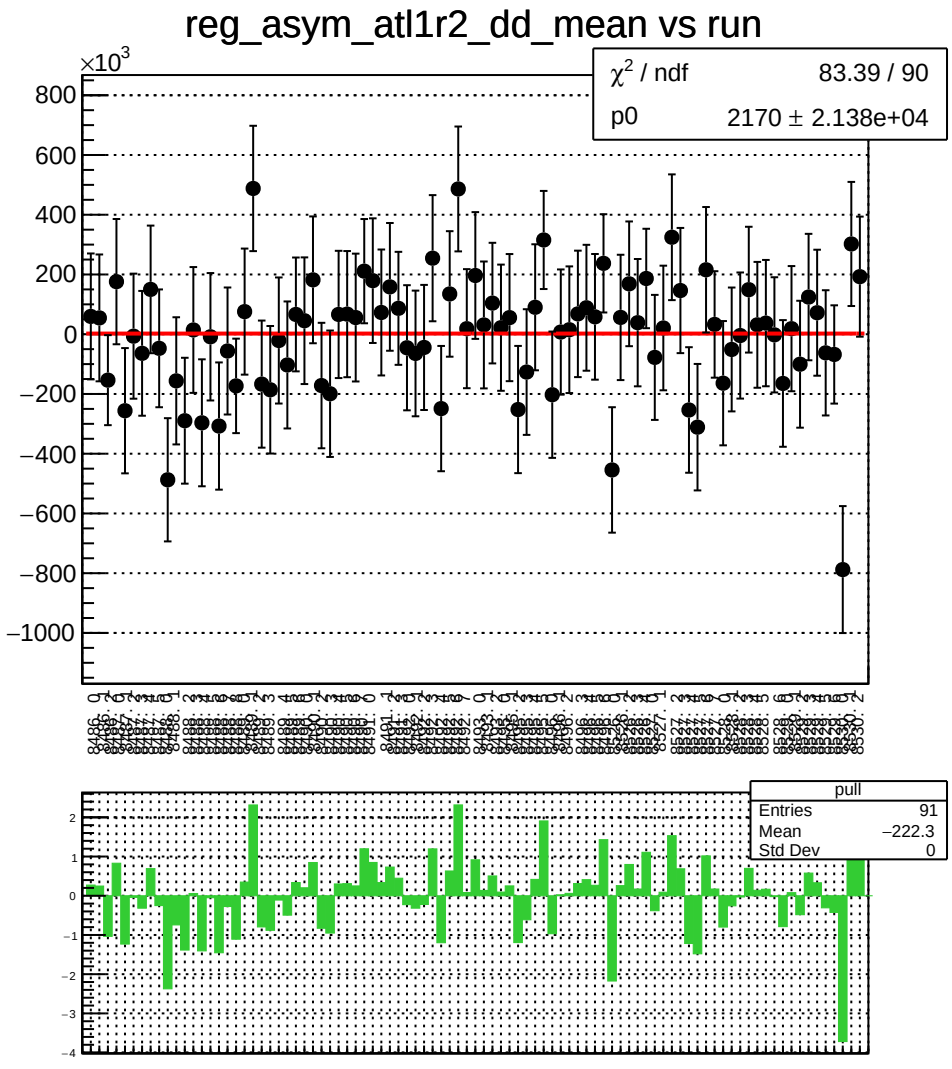

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.86 / 90
p0 0.007904 ± 0.3884
pull
Entries 91
Mean −44.72
Std Dev 0
pull1D
Entries 91
Mean 0.0166
Std Dev 1.047

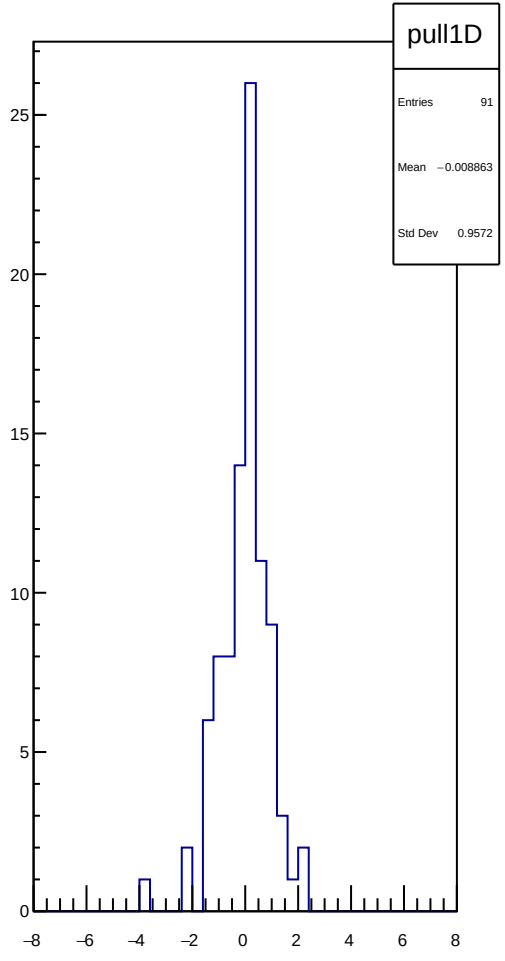

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.222e+05 / 90
p0 339.4 ± 0.2747
900
800
700
600
500
400
300
200
100

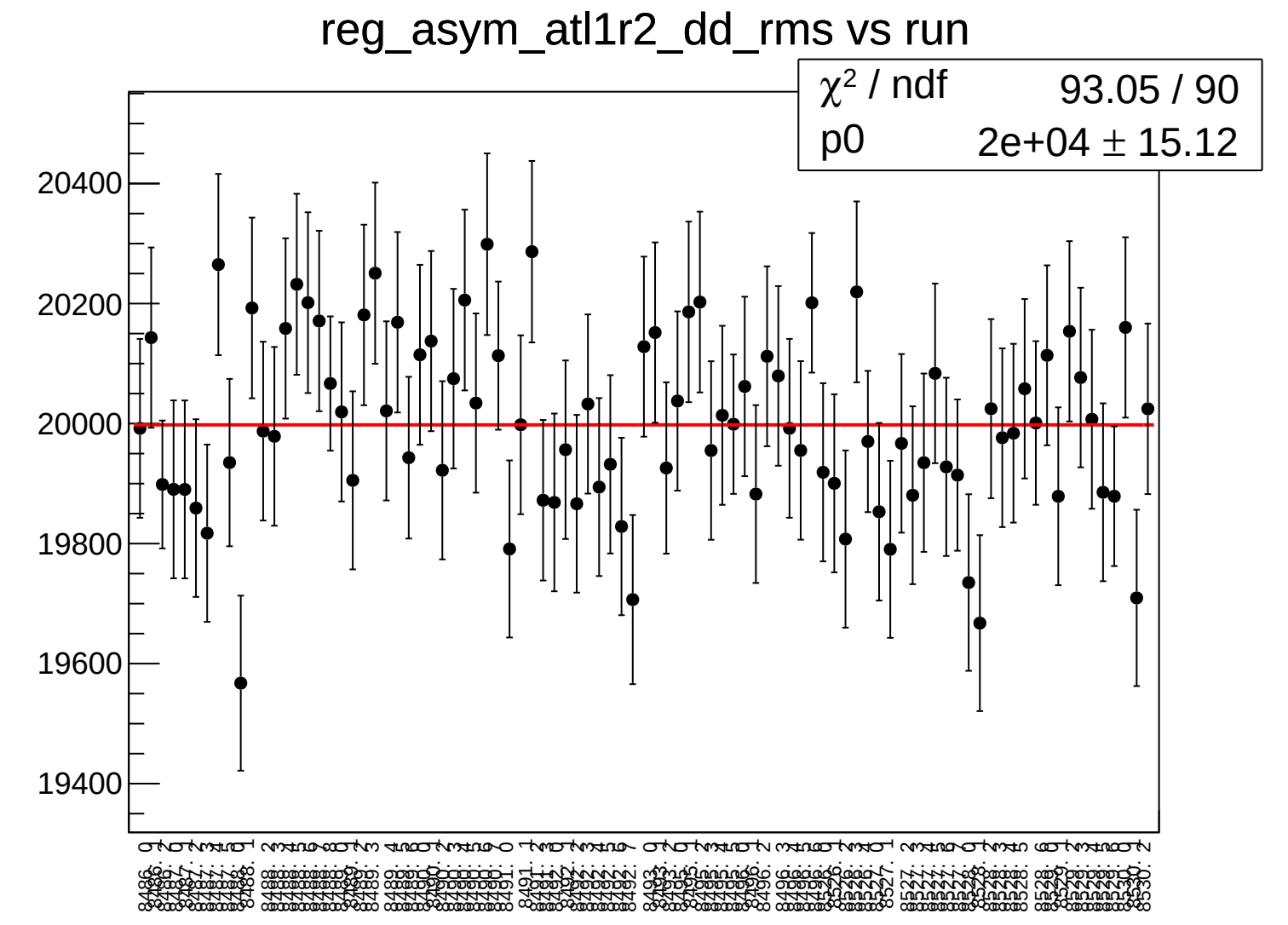

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.74 / 90
p0 −1.424e−13 ± 1.008e−13
20
10
0
−10
−20
−30
pull
Entries 91
Mean 30.37
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

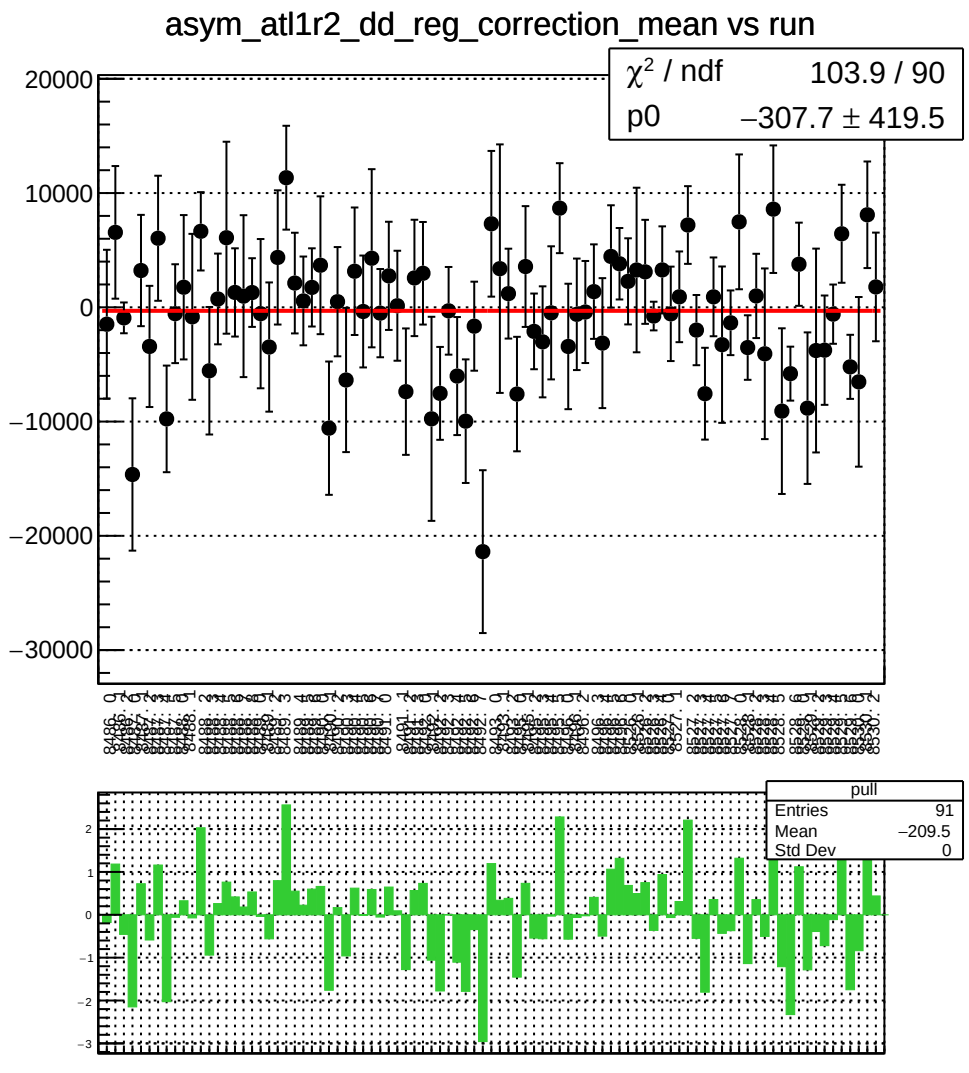

pull1D
Entries 91
Mean −0.1681
Std Dev 0.8655
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

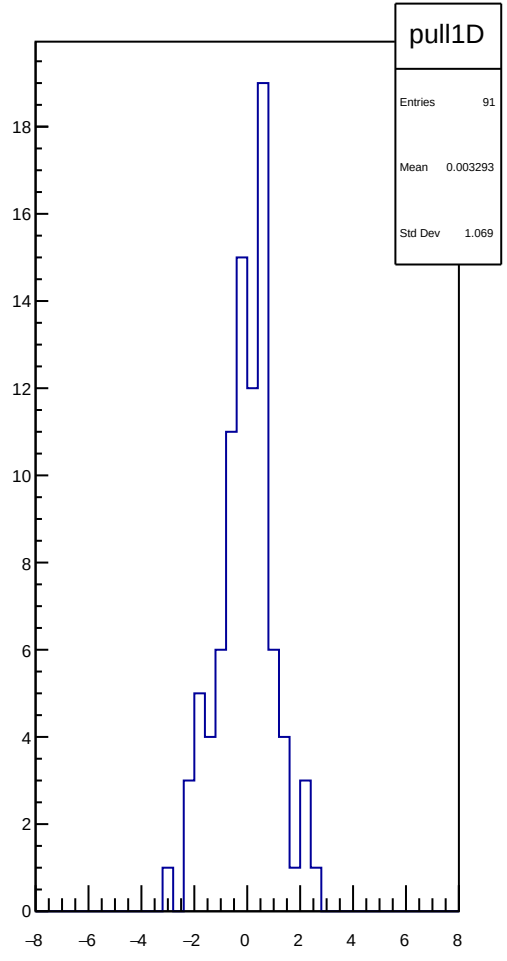

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.003e+05 / 90
p0 6.57e−11 ± 7.131e−14
1.4
1.2
1
0.8
0.6
0.4
0.2

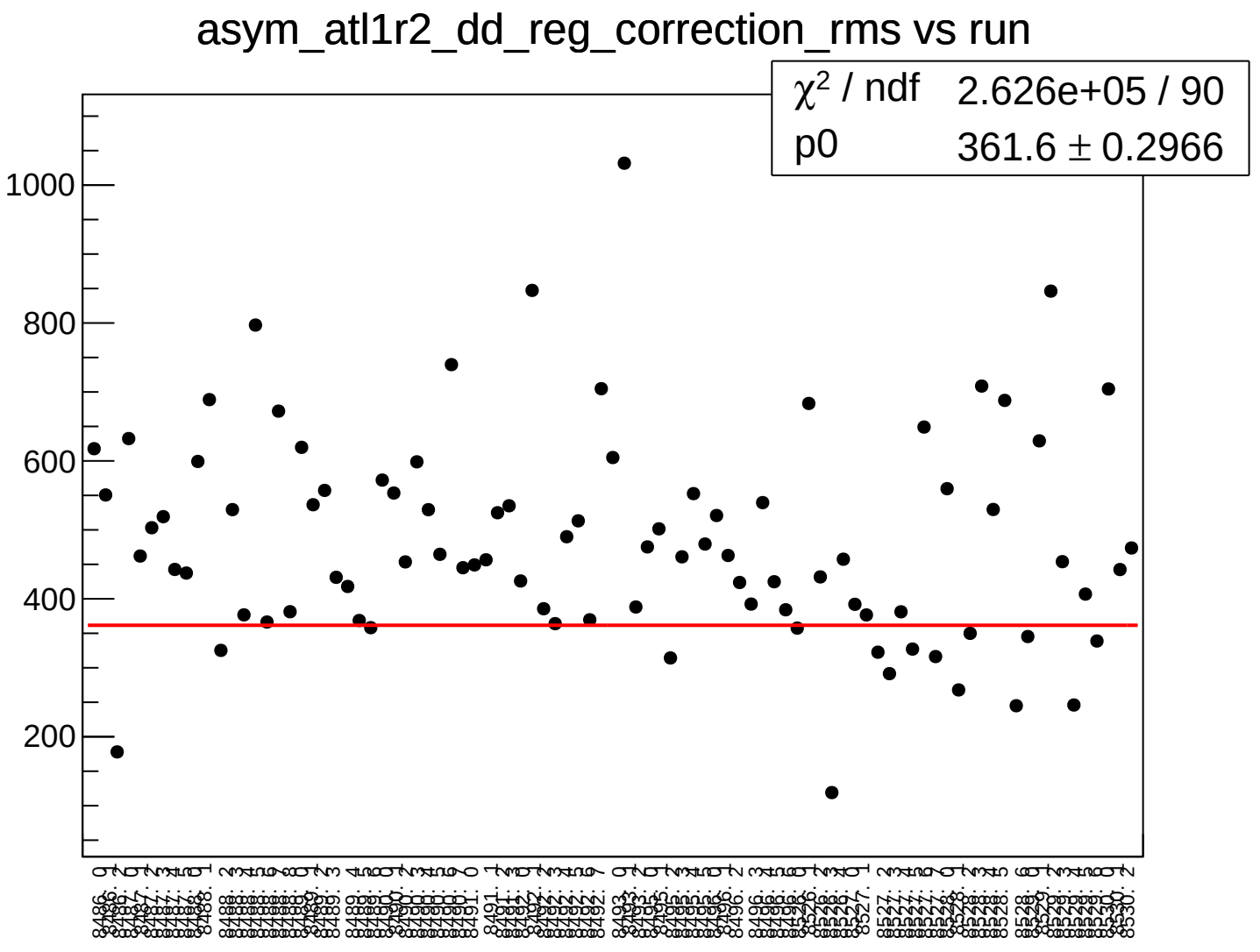

reg_asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 83.39 / 90
p0 2170 ± 2.138e+04
pull
Entries 91
Mean −222.3
Std Dev 0

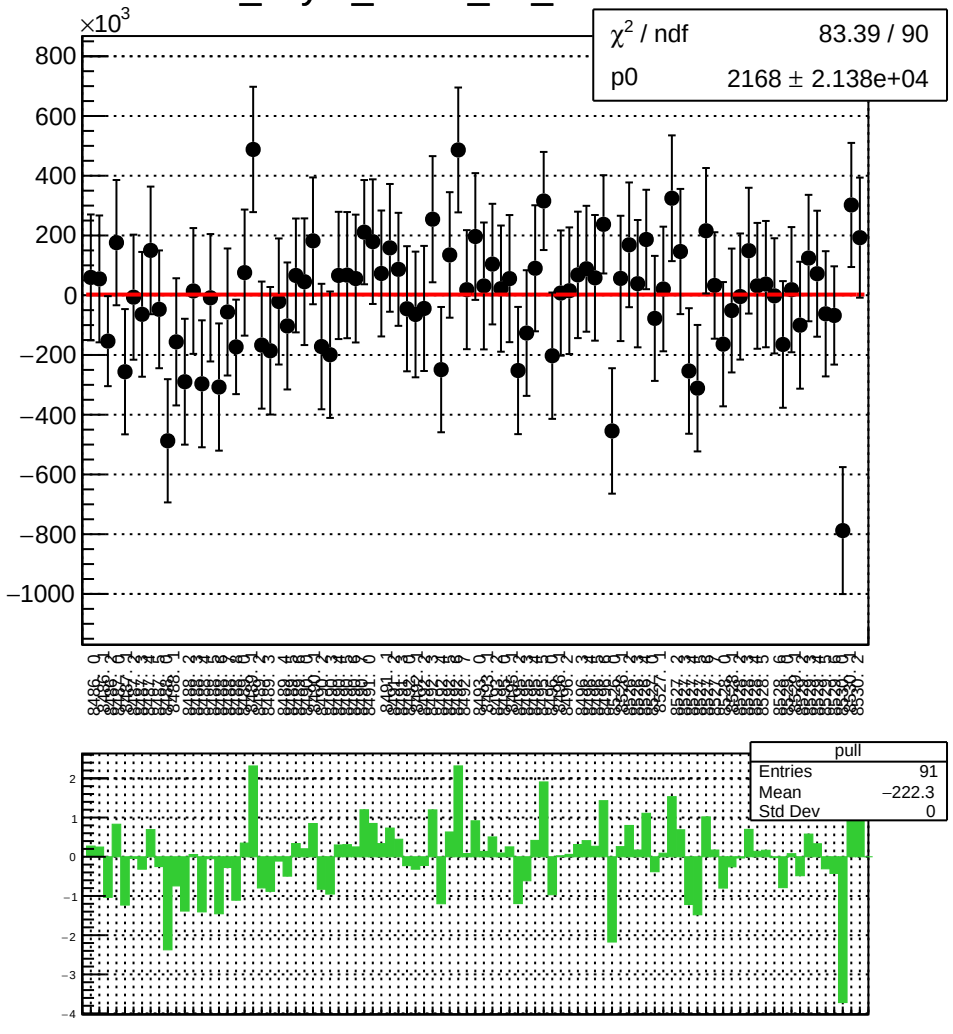

pull1D
Entries 91
Mean −0.008863
Std Dev 0.9572

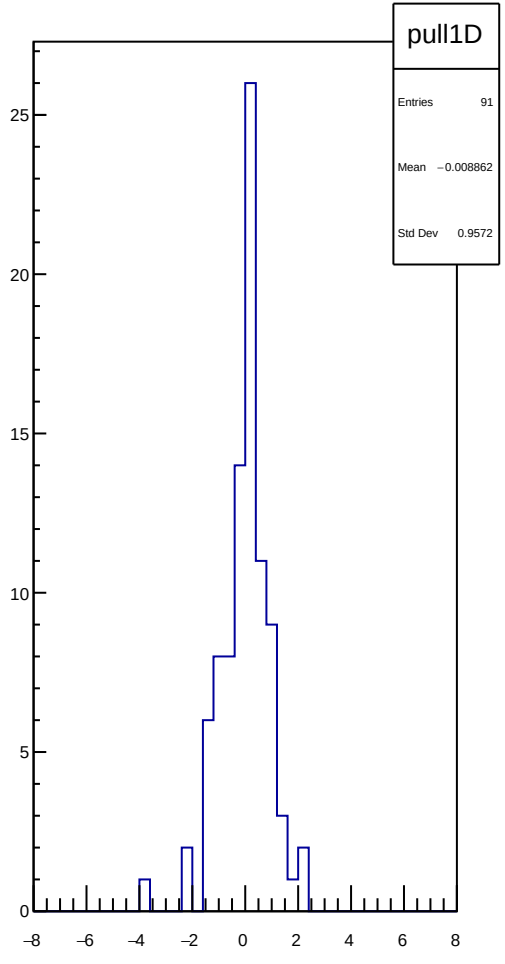

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 93.05 / 90
p0 2e+04 ± 15.12
20400
20200
20000
19800
19600
19400

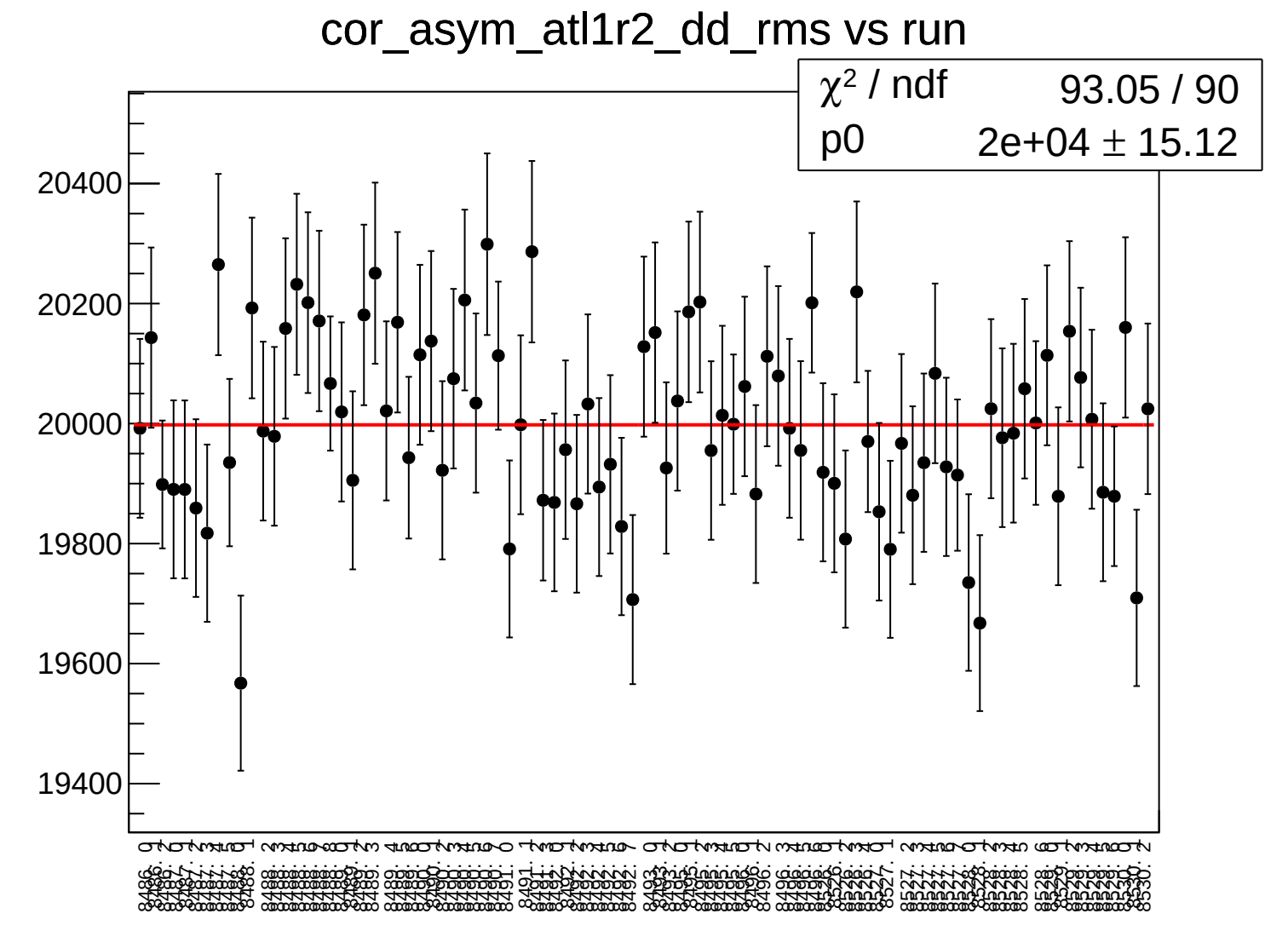

asym_atl1r2_dd_reg_correction_mean vs run
χ² / ndf 103.9 / 90
p0 −307.7 ± 419.5
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −209.5
Std Dev 0
2
1
0
−1
−2
−3

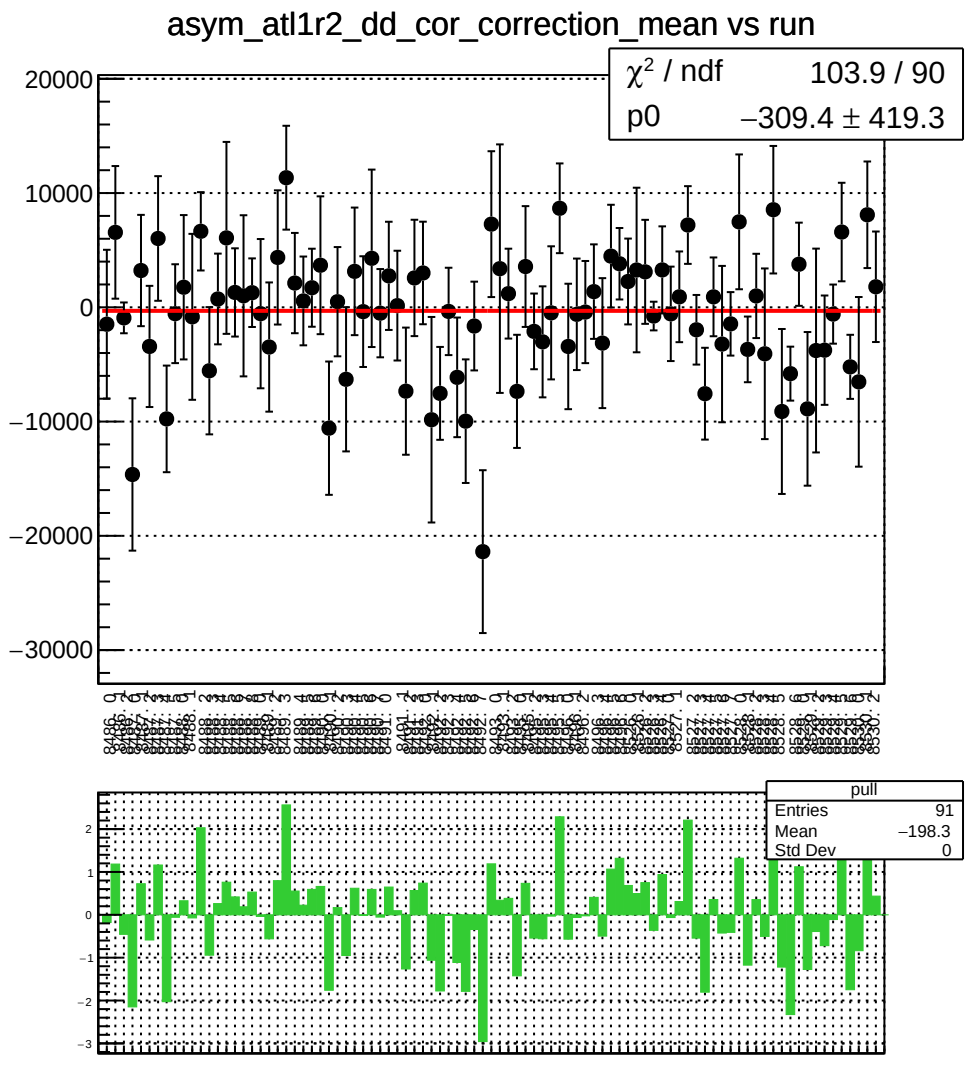

pull1D
Entries 91
Mean 0.003293
Std Dev 1.069
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

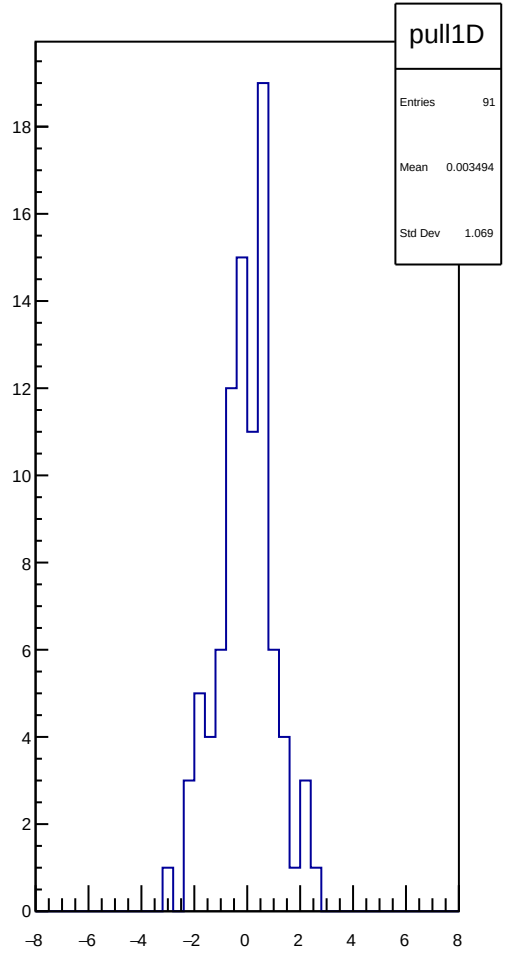

asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 2.626e+05 / 90
p0 361.6 ± 0.2966
1000
800
600
400
200

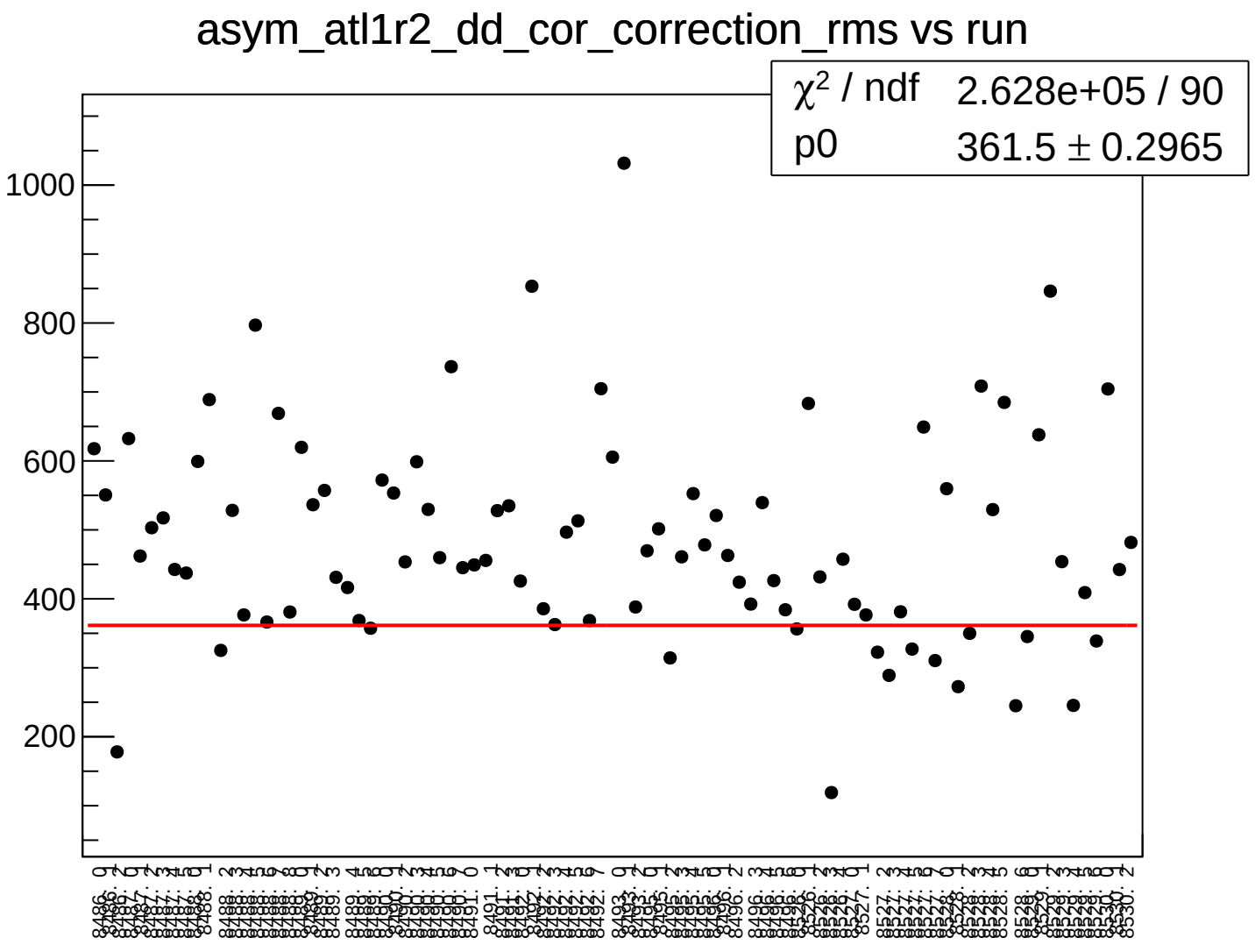

cor_asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 83.39 / 90
p0 2168 ± 2.138e+04
pull
Entries 91
Mean −222.3
Std Dev 0

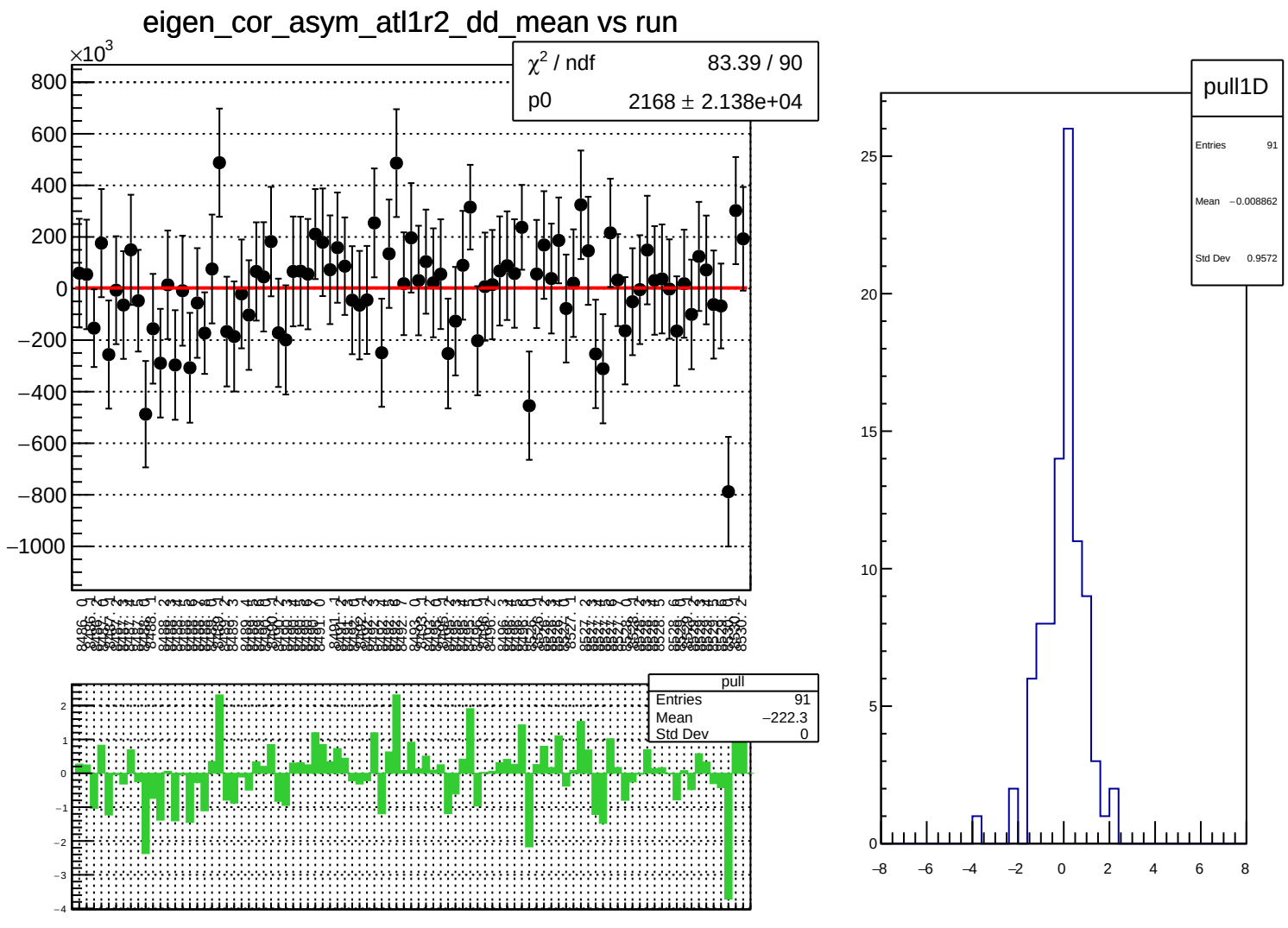

pull1D
Entries 91
Mean −0.008862
Std Dev 0.9572

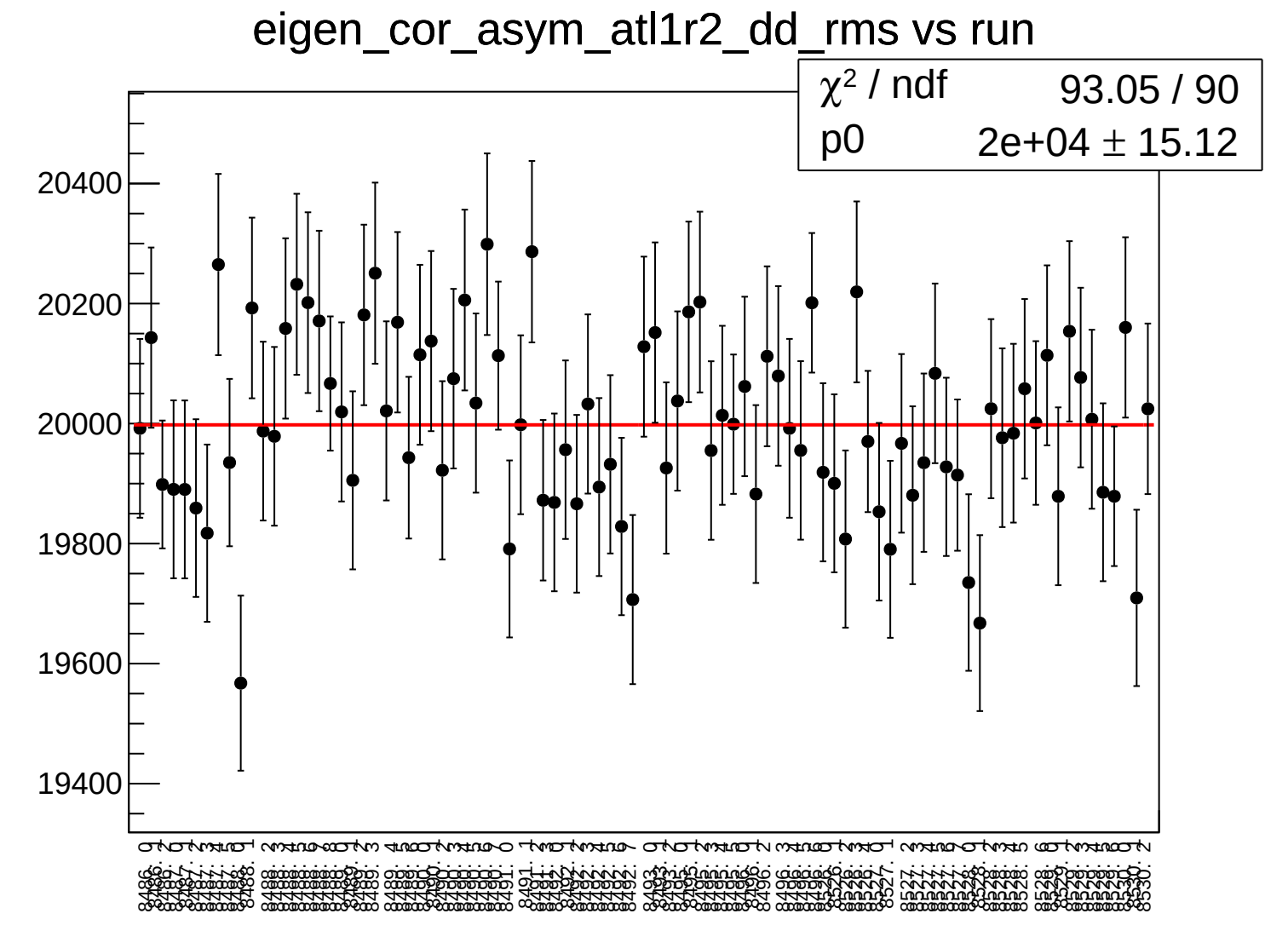

cor_asym_atl1r2_dd_rms vs run
χ² / ndf 93.05 / 90
p0 2e+04 ± 15.12
20400
20200
20000
19800
19600
19400

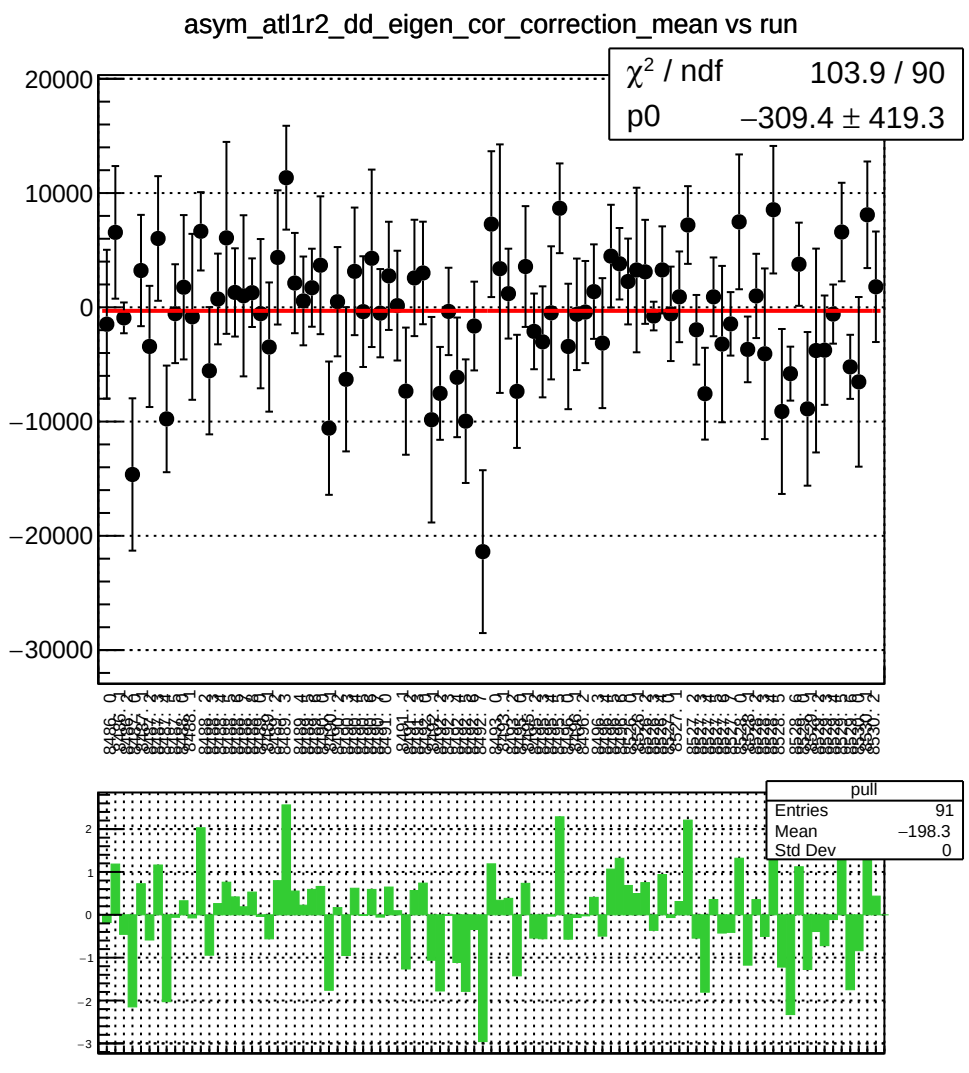

asym_atl1r2_dd_cor_correction_mean vs run
χ² / ndf 103.9 / 90
p0 −309.4 ± 419.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −198.3
Std Dev 0
2
1
0
−1
−2
−3

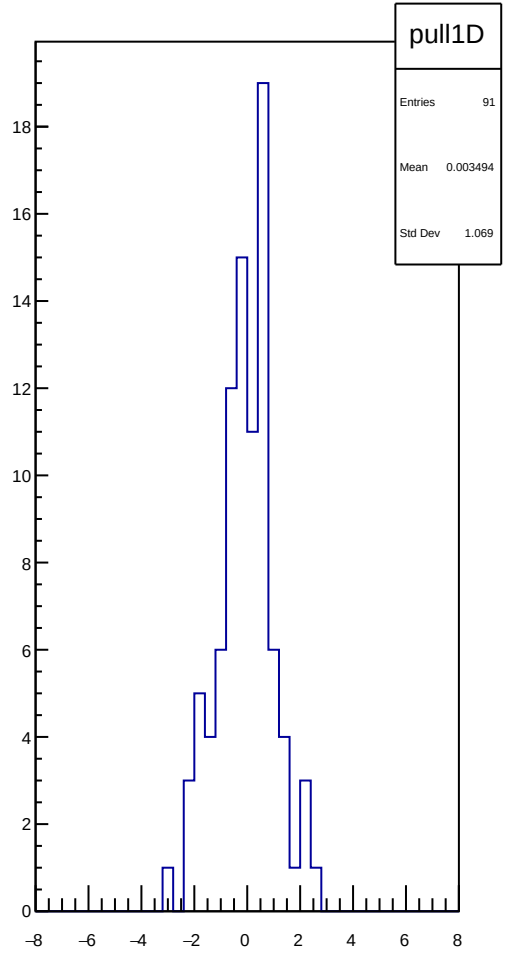

pull1D
Entries 91
Mean 0.003494
Std Dev 1.069
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

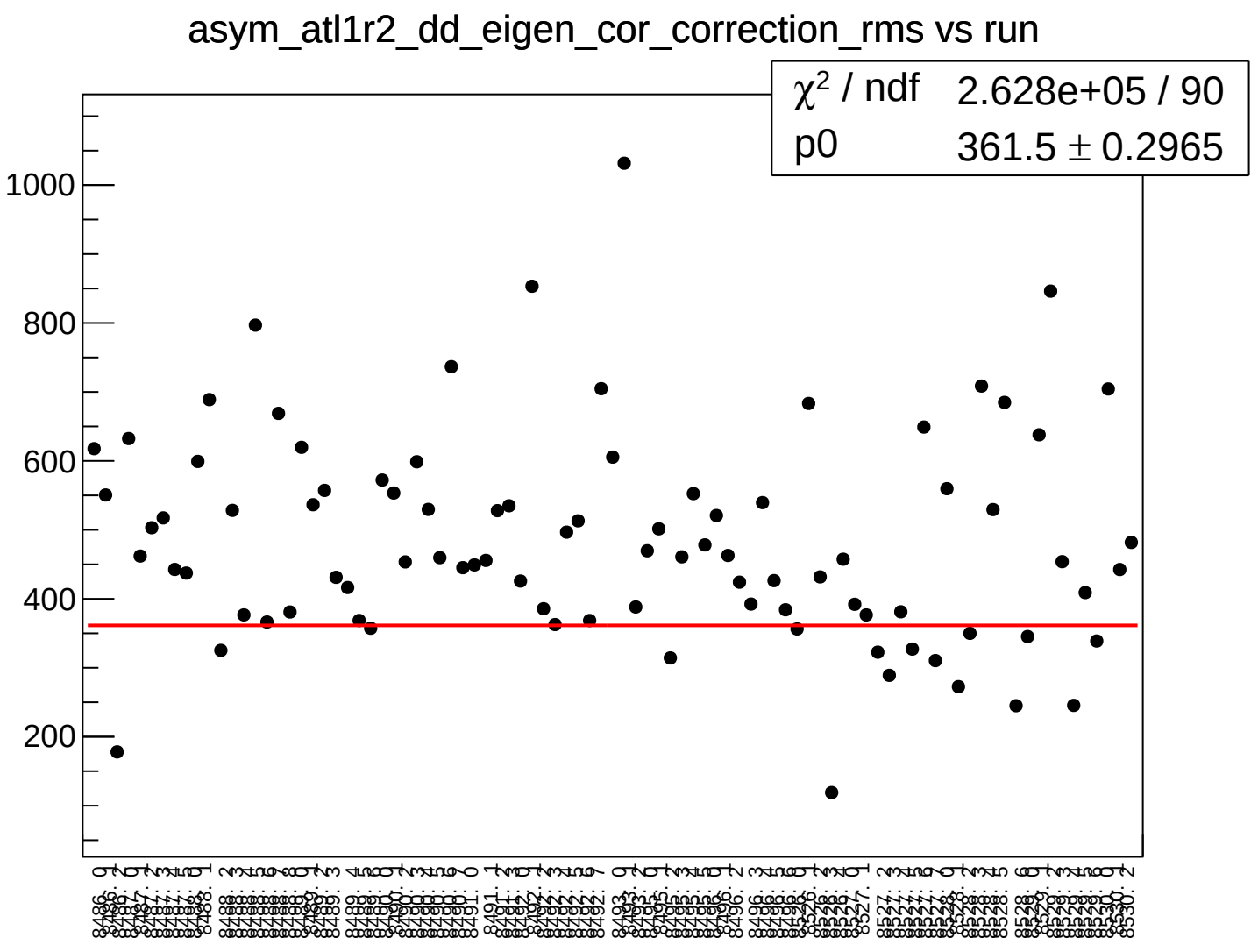

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 2.628e+05 / 90
p0 361.5 ± 0.2965
1000
800
600
400
200

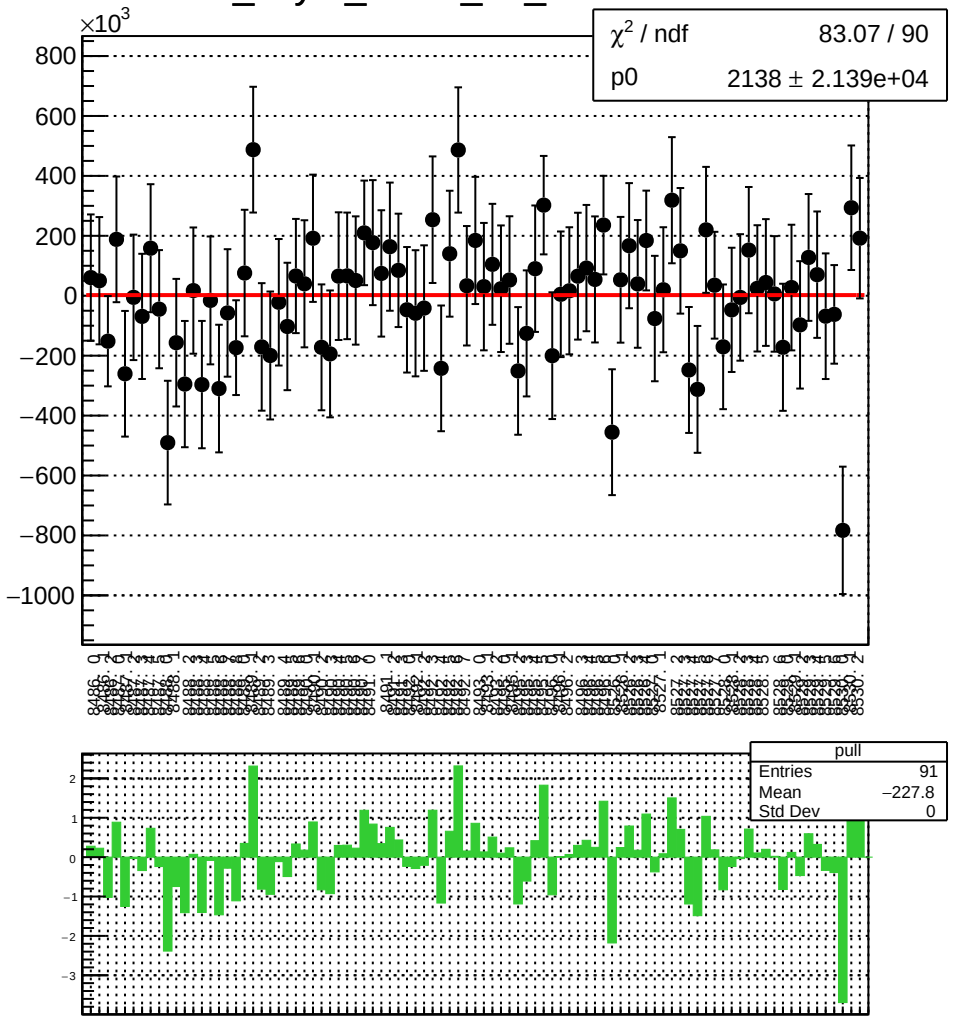

eigen_cor_asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 83.39 / 90
p0 2168 ± 2.138e+04
pull
Entries 91
Mean −222.3
Std Dev 0
pull1D
Entries 91
Mean −0.008862
Std Dev 0.9572

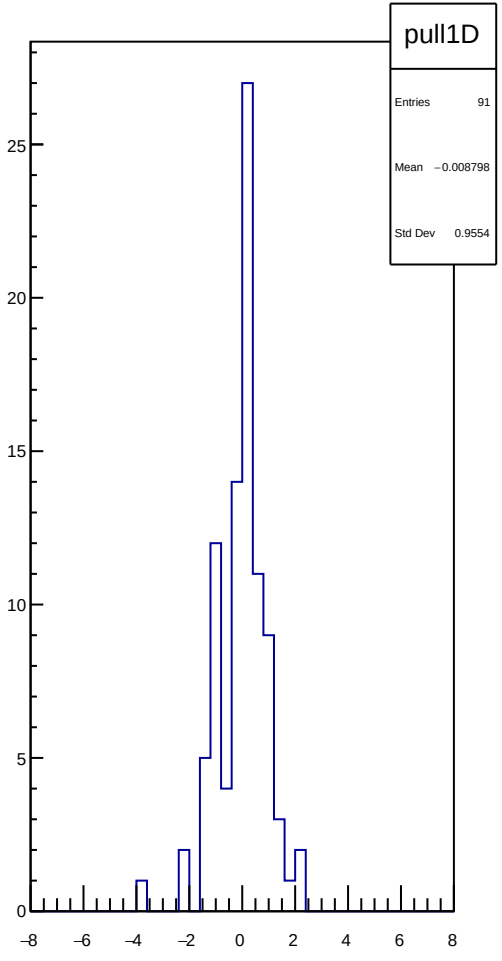

eigen_cor_asym_atl1r2_dd_rms vs run
χ² / ndf 93.05 / 90
p0 2e+04 ± 15.12
20400
20200
20000
19800
19600
19400

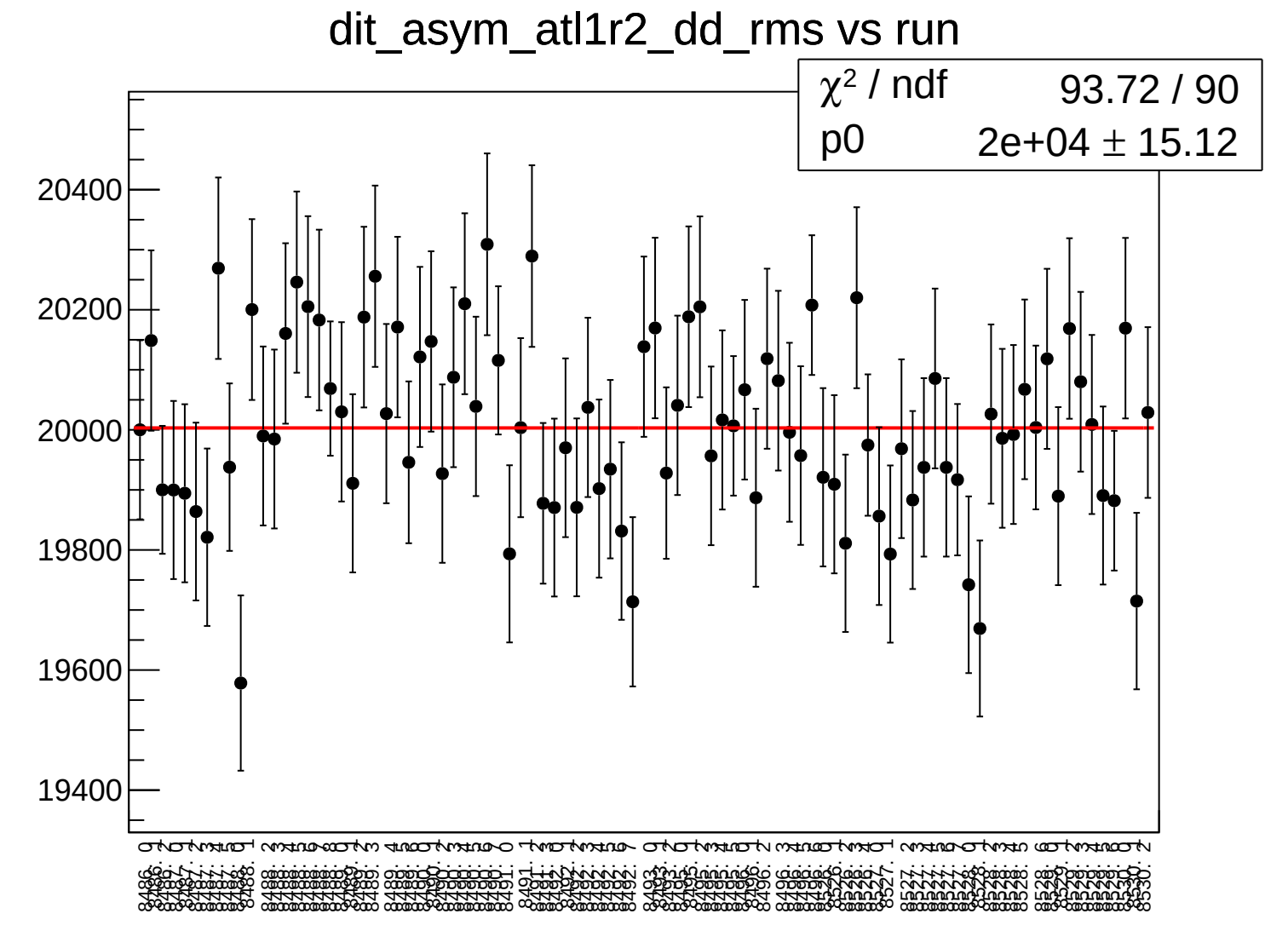

asym_atl1r2_dd_eigen_cor_correction_mean vs run
χ² / ndf 103.9 / 90
p0 −309.4 ± 419.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −198.3
Std Dev 0
2
1
0
−1
−2
−3

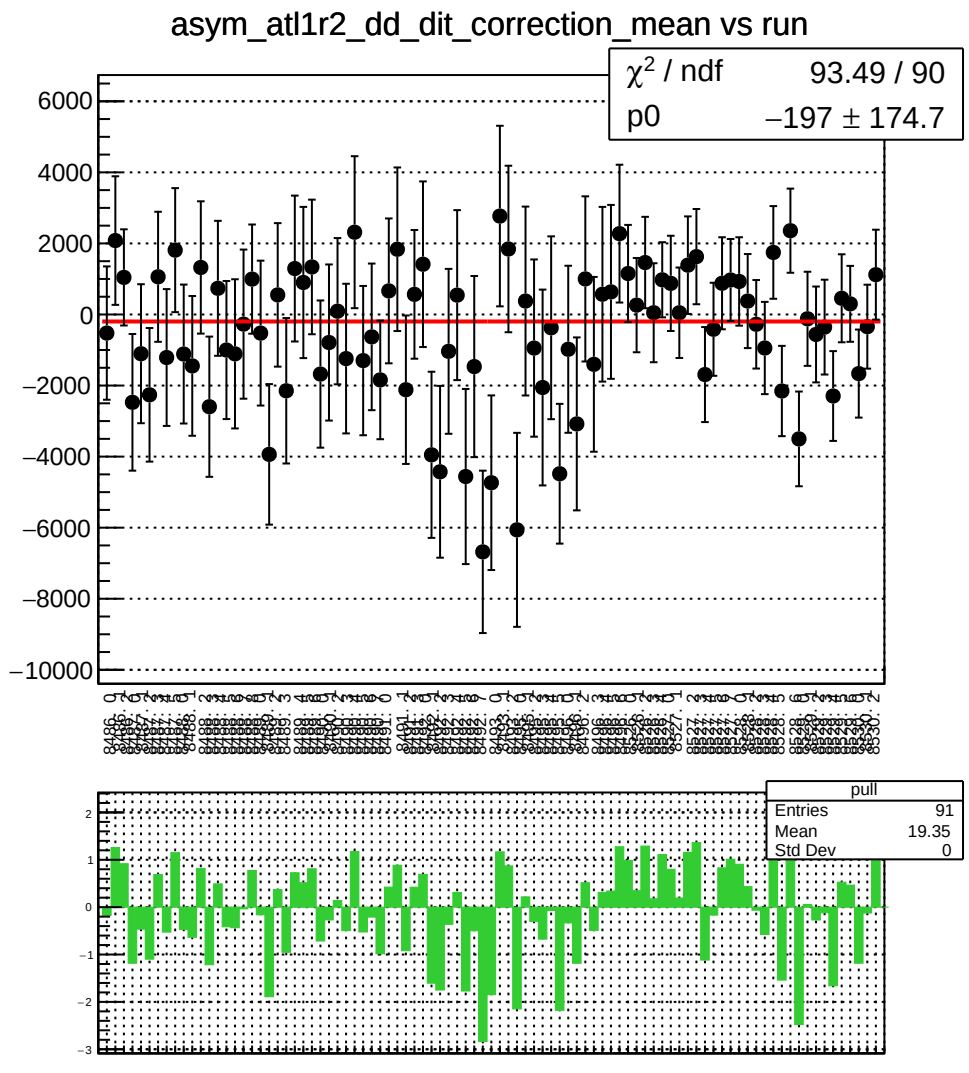

pull1D
Entries 91
Mean 0.003494
Std Dev 1.069
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

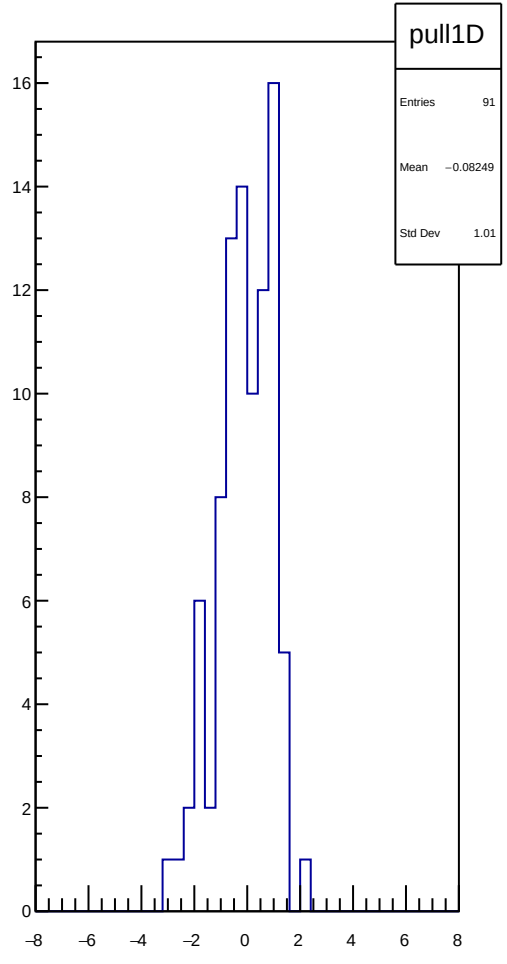

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.628e+05 / 90
p0 361.5 ± 0.2965
1000
800
600
400
200

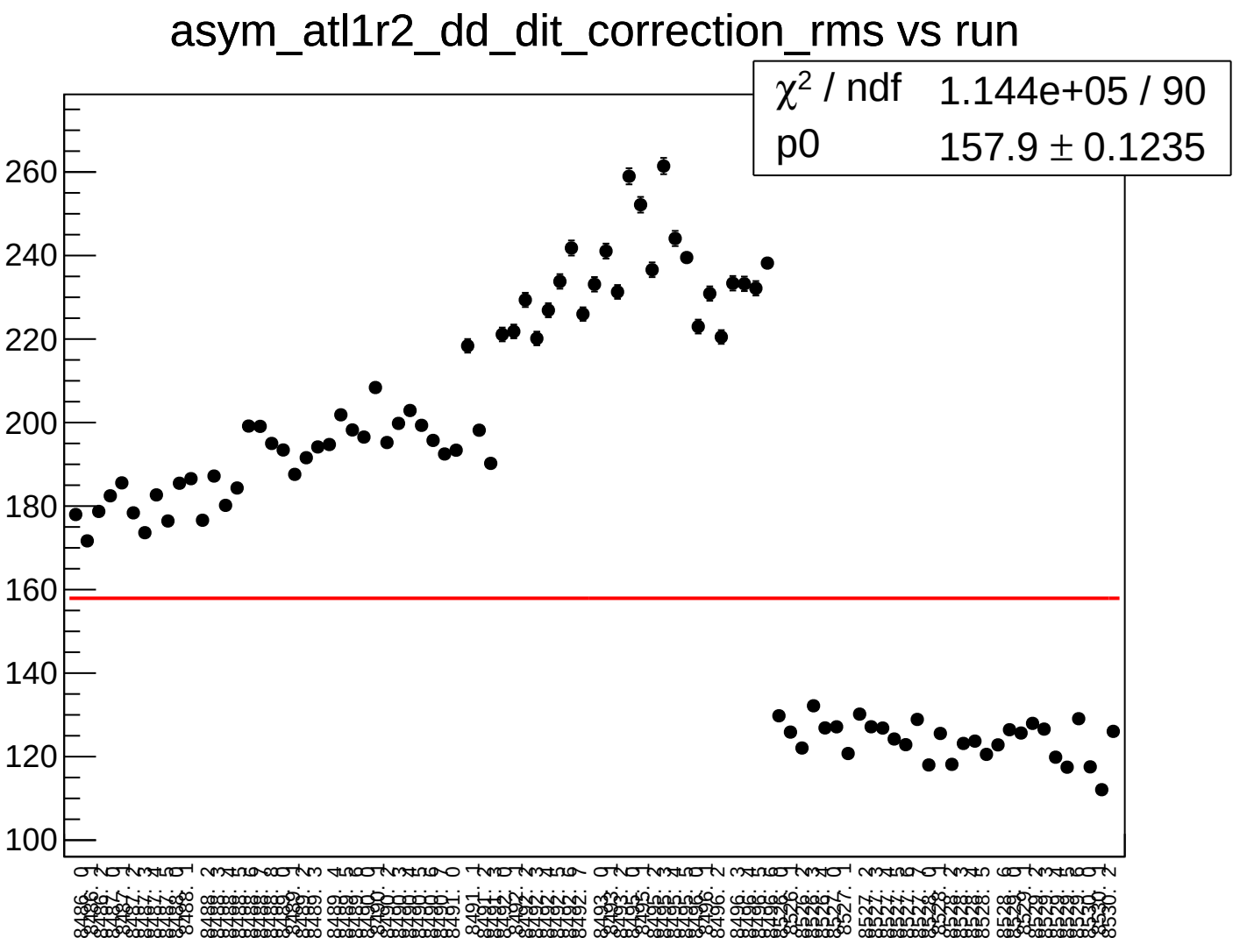

dit_asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 83.07 / 90
p0 2138 ± 2.139e+04
pull
Entries 91
Mean −227.8
Std Dev 0

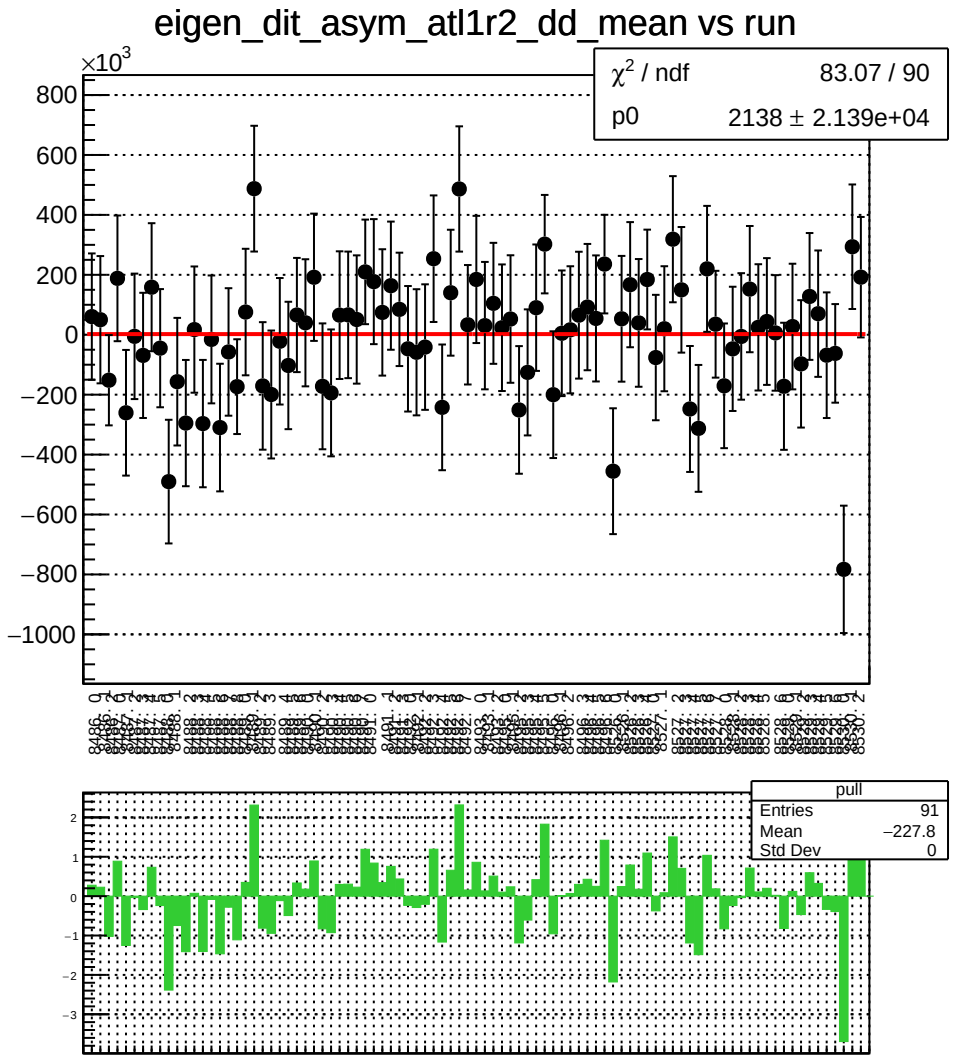

pull1D
Entries 91
Mean −0.008798
Std Dev 0.9554

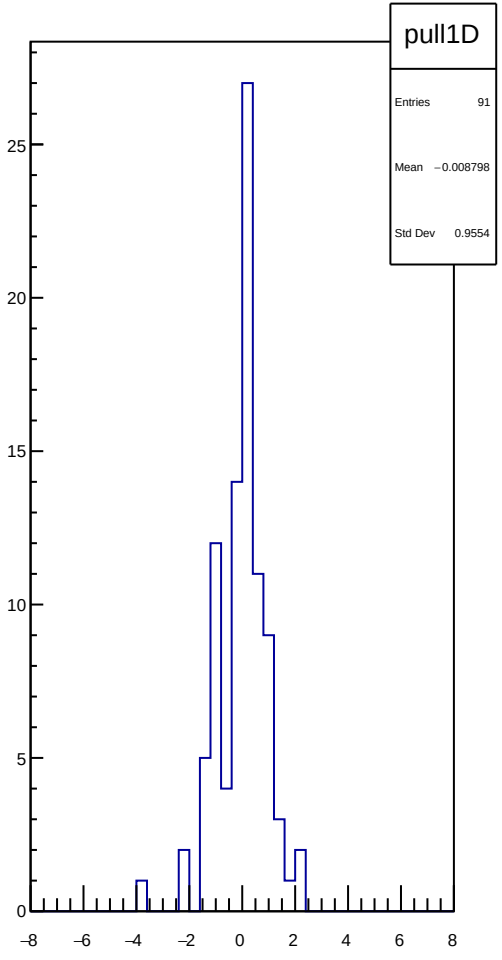

dit_asym_atl1r2_dd_rms vs run
χ² / ndf 93.72 / 90
p0 2e+04 ± 15.12
20400
20200
20000
19800
19600
19400

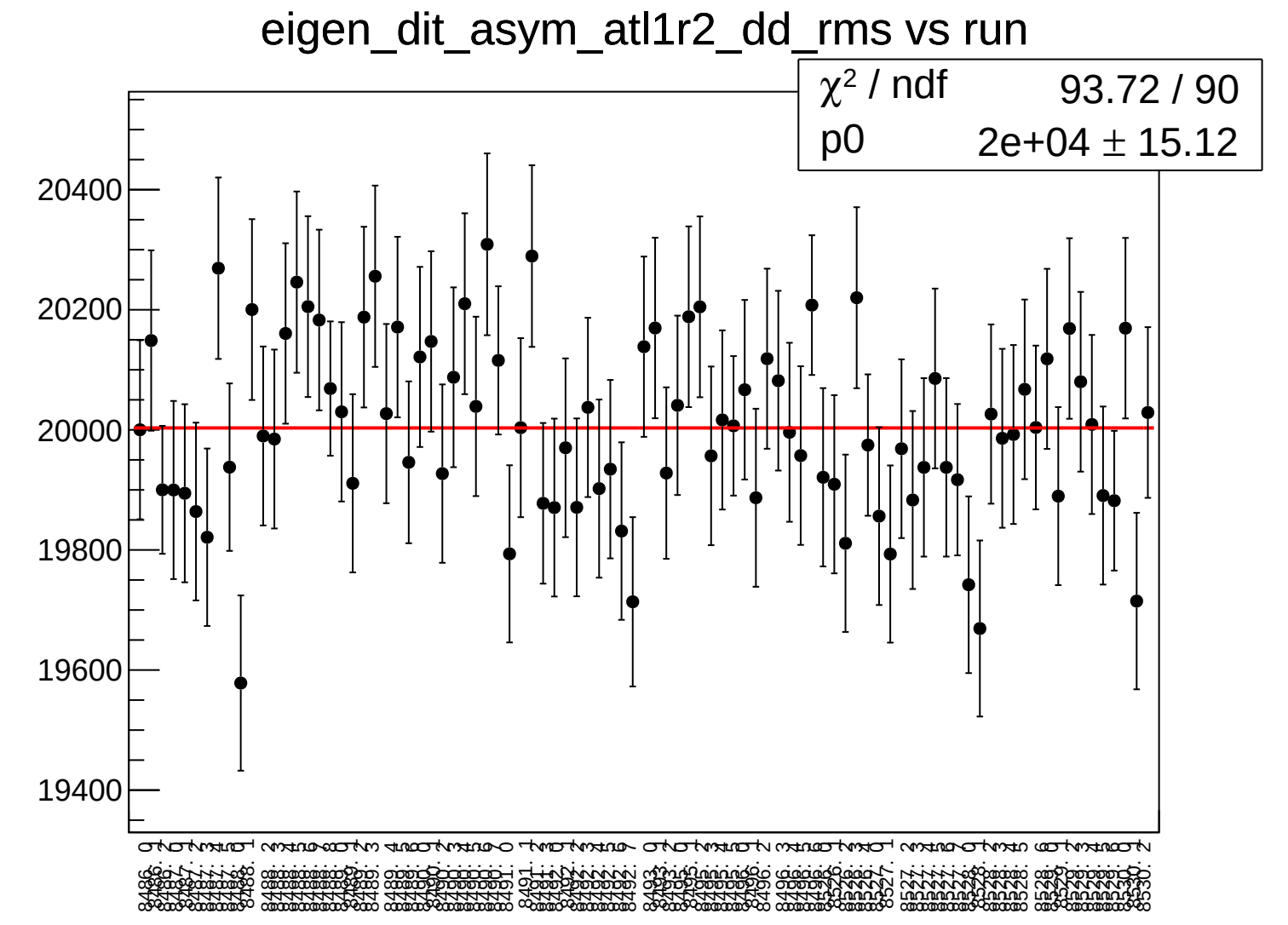

asym_atl1r2_dd_dit_correction_mean vs run
χ² / ndf 93.49 / 90
p0 −197 ± 174.7
pull
Entries 91
Mean 19.35
Std Dev 0

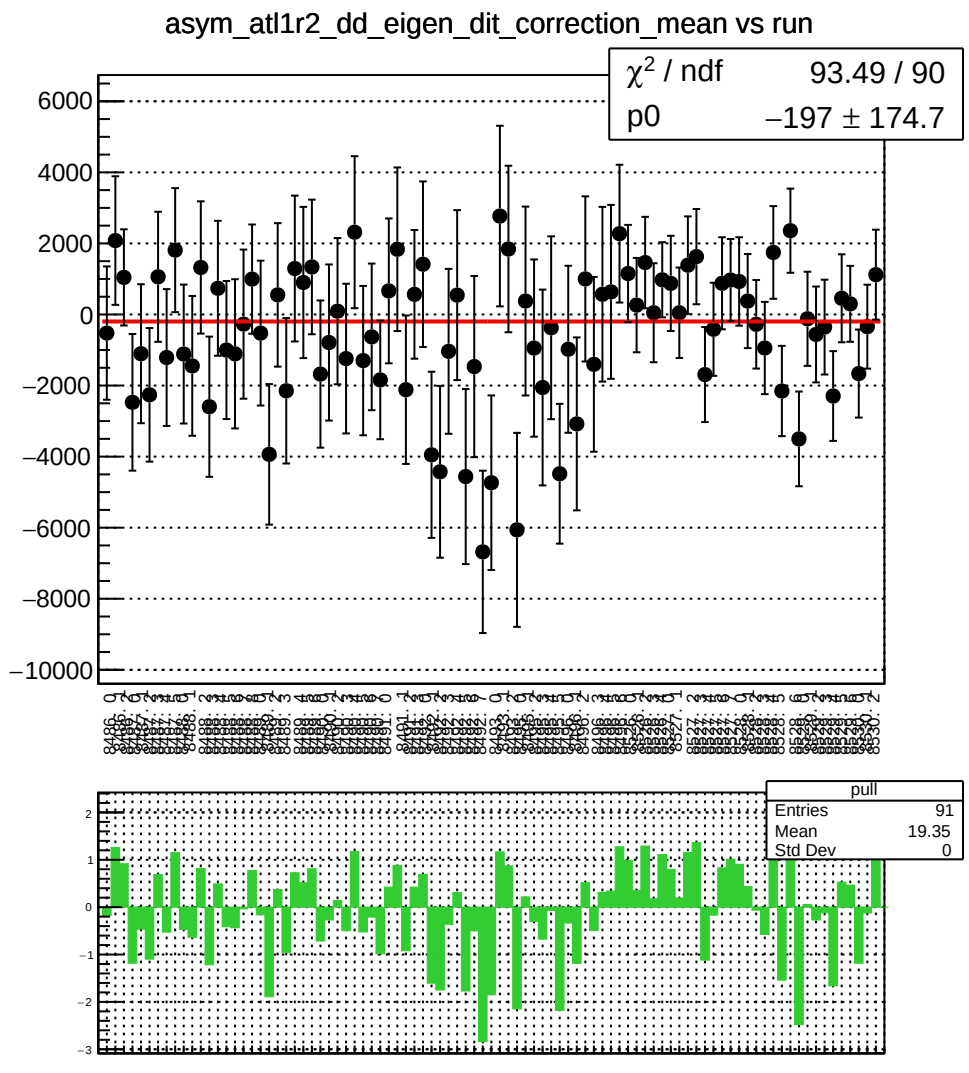

pull1D
Entries 91
Mean −0.08249
Std Dev 1.01

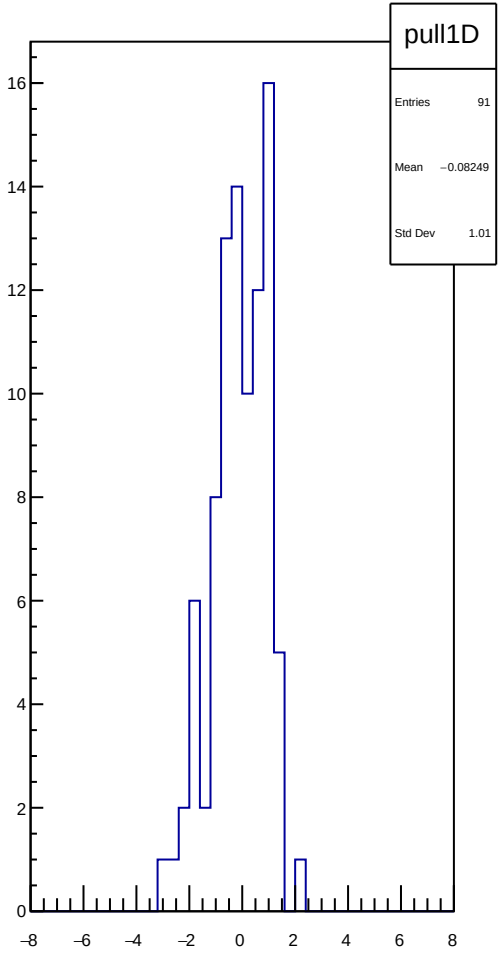

asym_atl1r2_dd_dit_correction_rms vs run
χ² / ndf 1.144e+05 / 90
p0 157.9 ± 0.1235
260
240
220
200
180
160
140
120
100

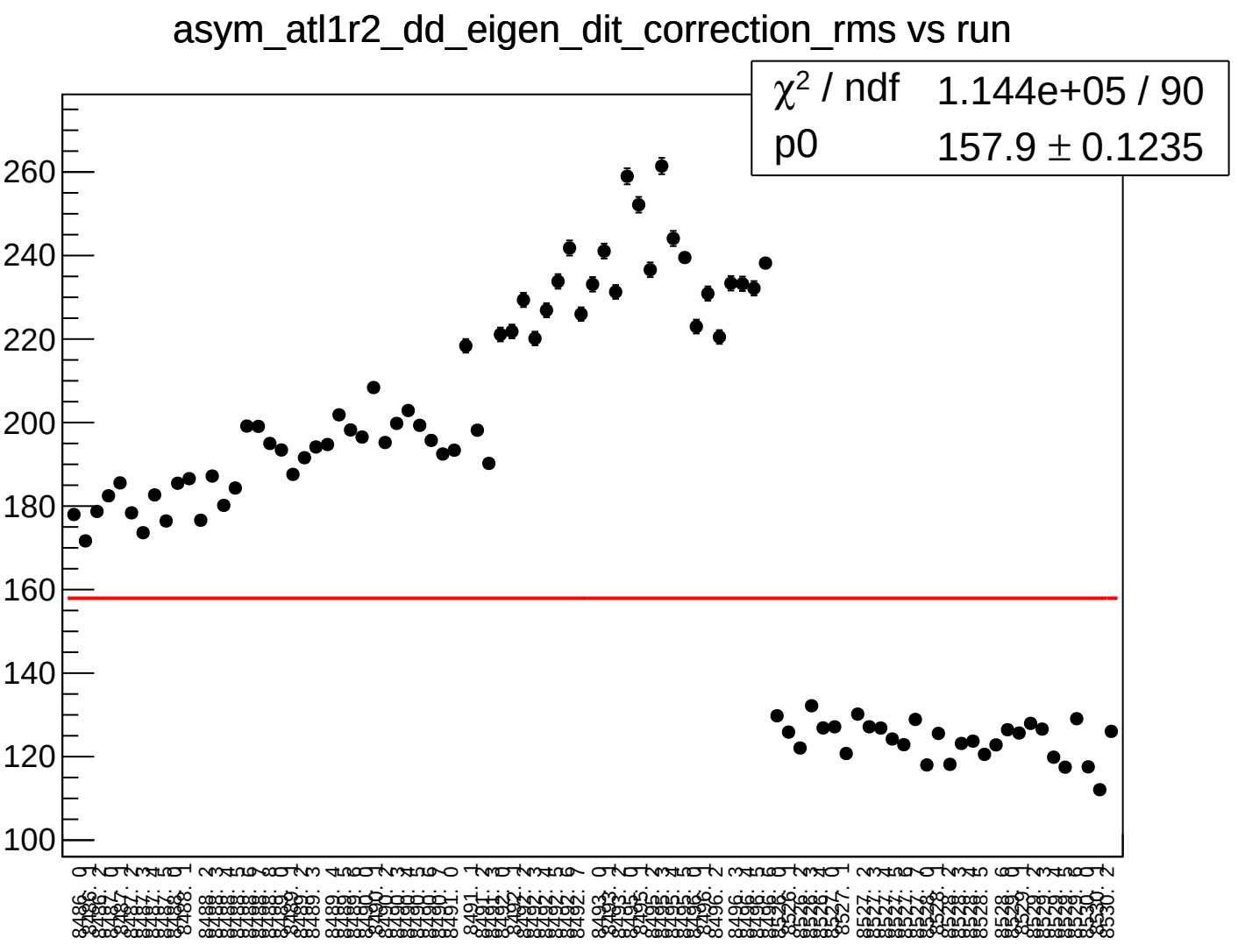

eigen_dit_asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 83.07 / 90
p0 2138 ± 2.139e+04
pull
Entries 91
Mean −227.8
Std Dev 0

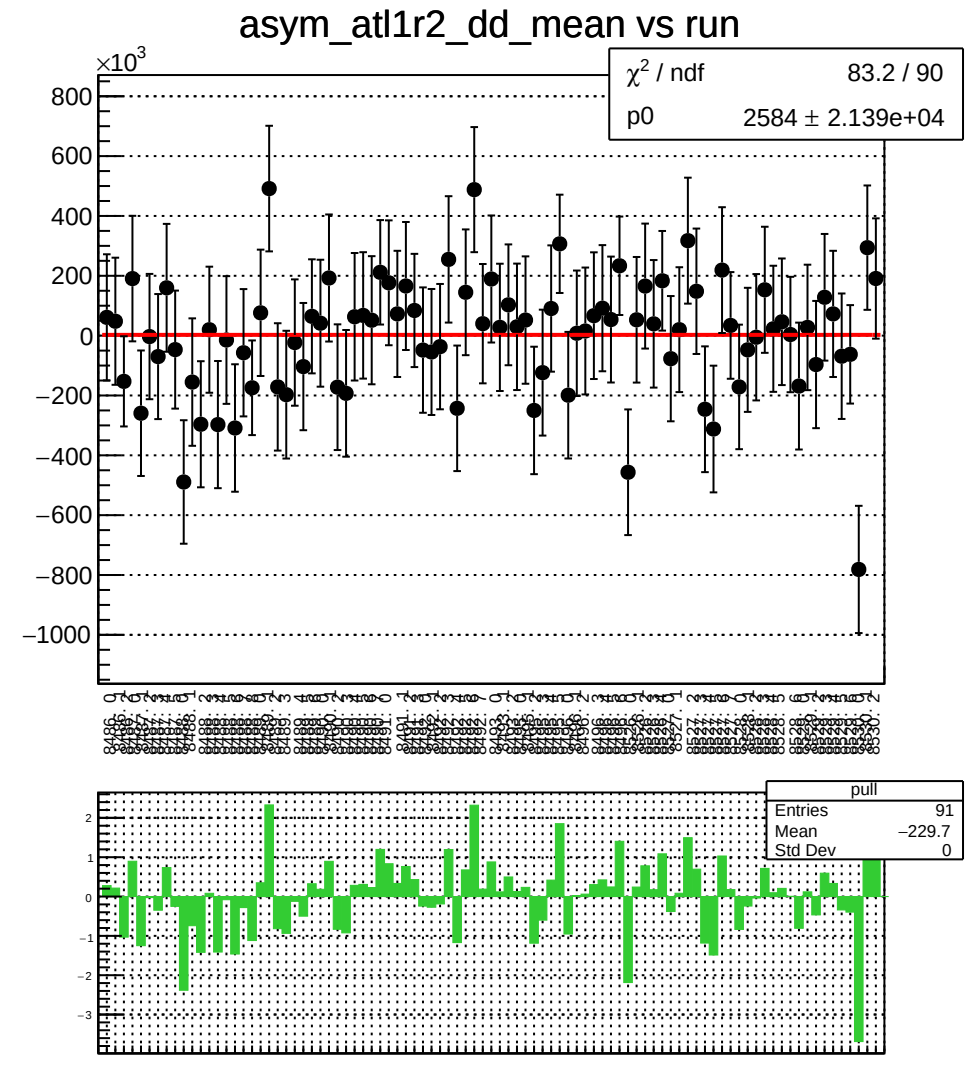

pull1D
Entries 91
Mean −0.008798
Std Dev 0.9554

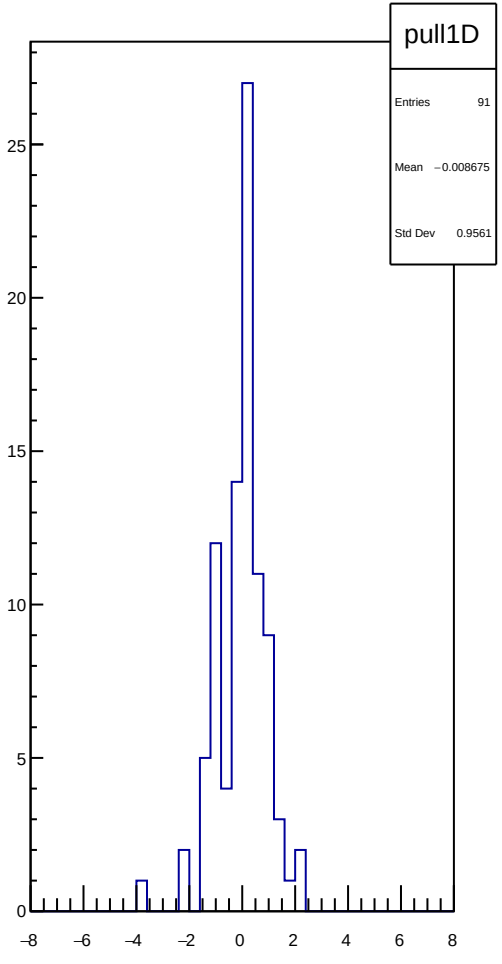

eigen_dit_asym_atl1r2_dd_rms vs run
χ² / ndf 93.72 / 90
p0 2e+04 ± 15.12
20400
20200
20000
19800
19600
19400

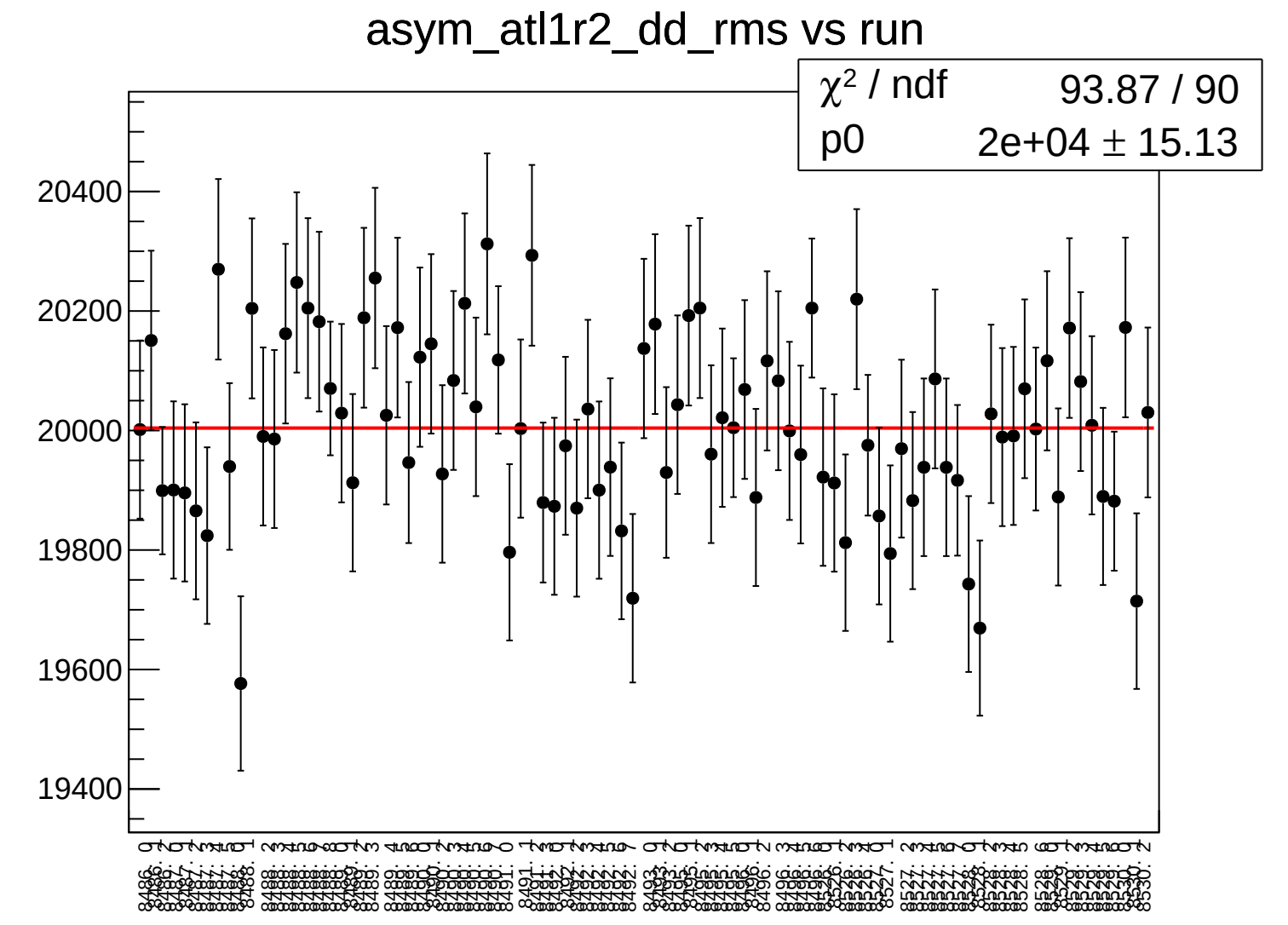

asym_atl1r2_dd_eigen_dit_correction_mean vs run
χ² / ndf 93.49 / 90
p0 −197 ± 174.7
pull
Entries 91
Mean 19.35
Std Dev 0

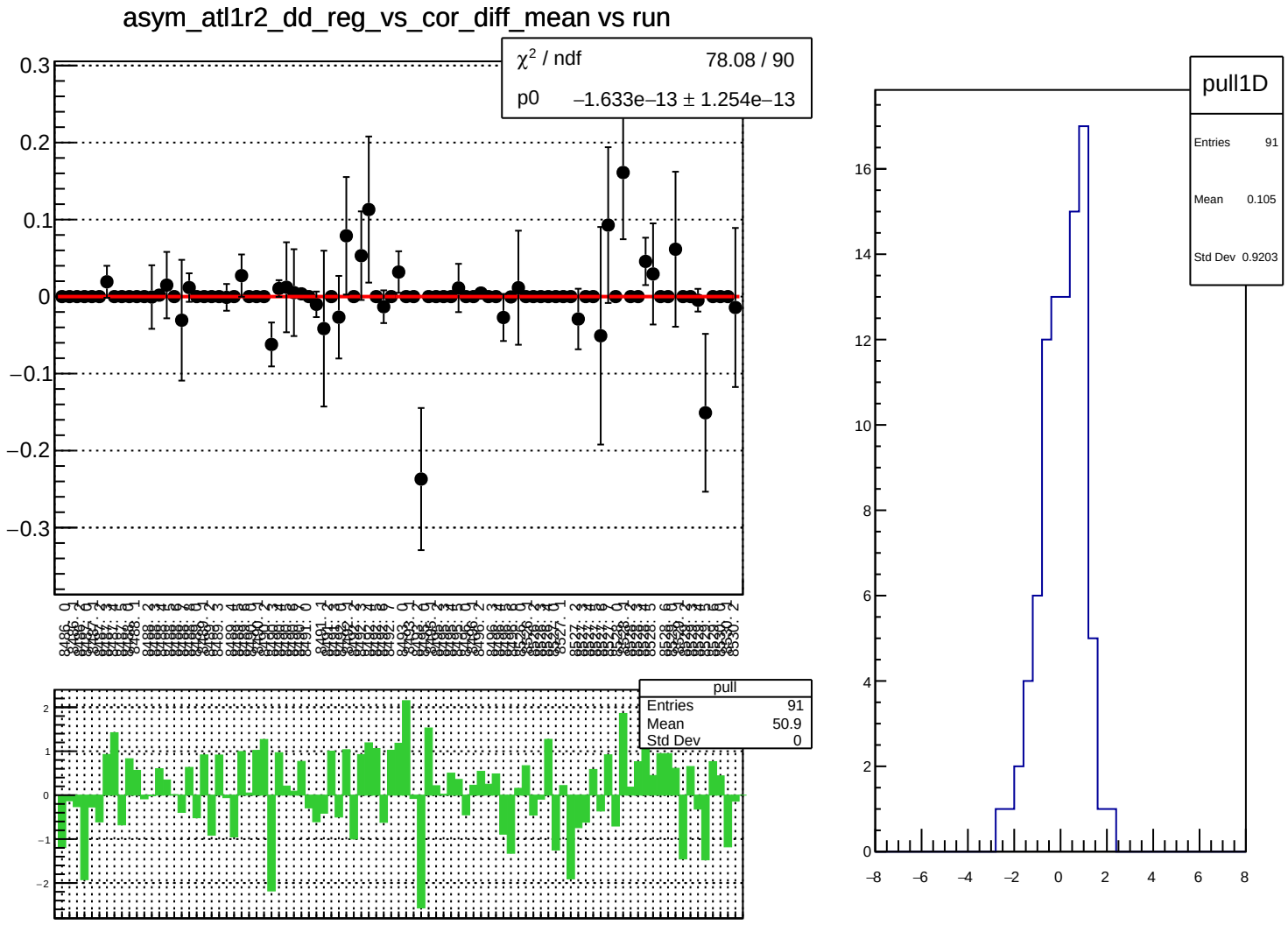

pull1D
Entries 91
Mean −0.08249
Std Dev 1.01

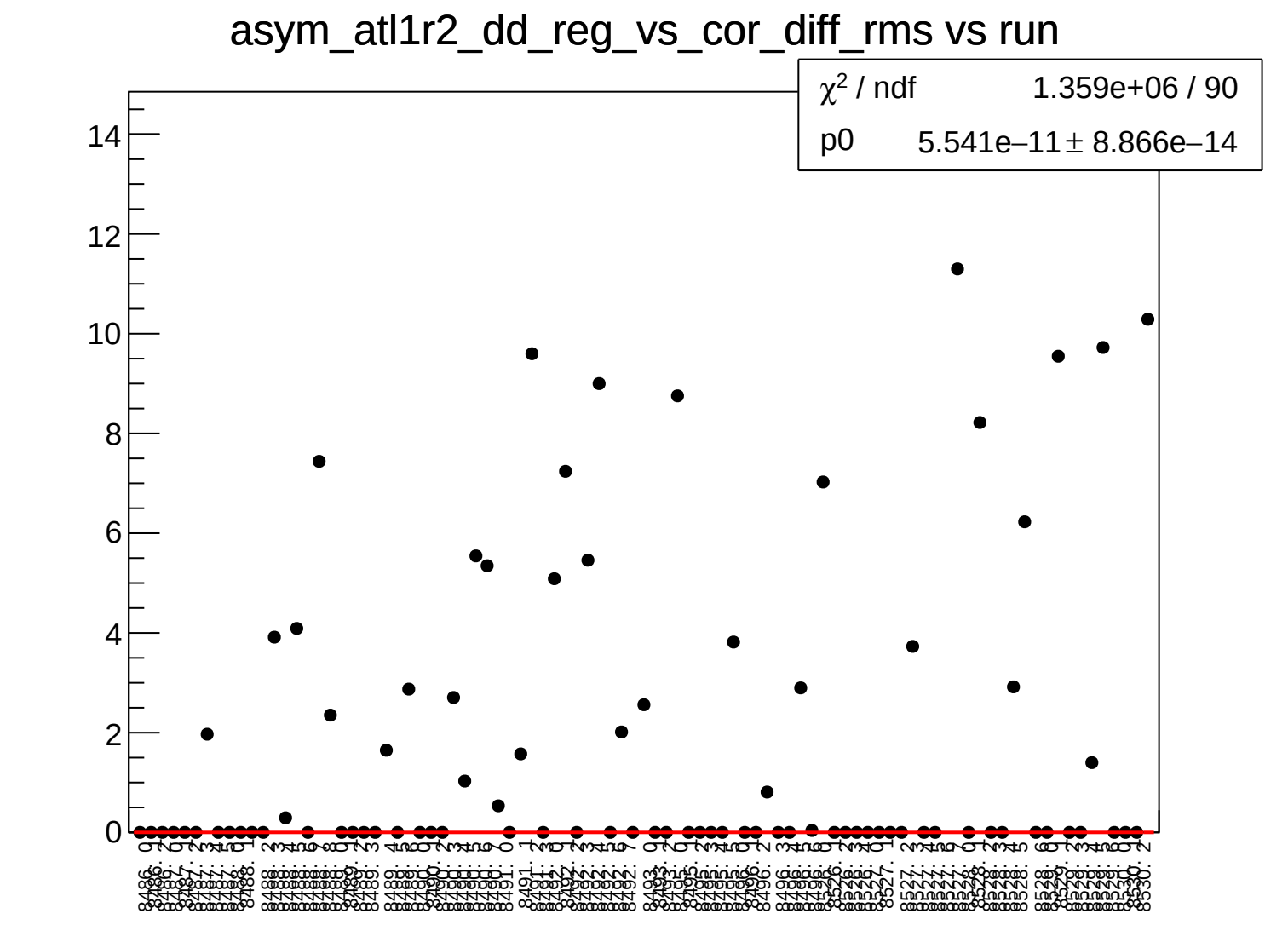

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.144e+05 / 90
p0 157.9 ± 0.1235
260
240
220
200
180
160
140
120
100

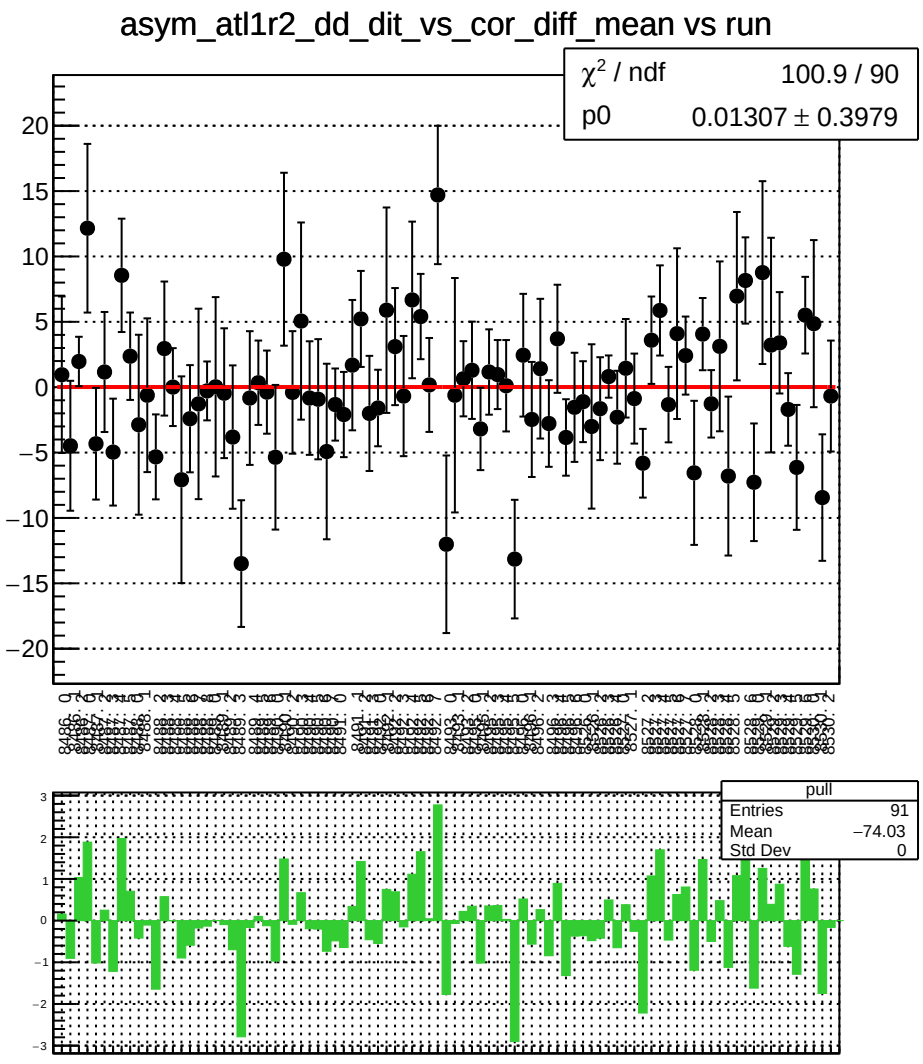

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 83.2 / 90
p0 2584 ± 2.139e+04
pull
Entries 91
Mean −229.7
Std Dev 0

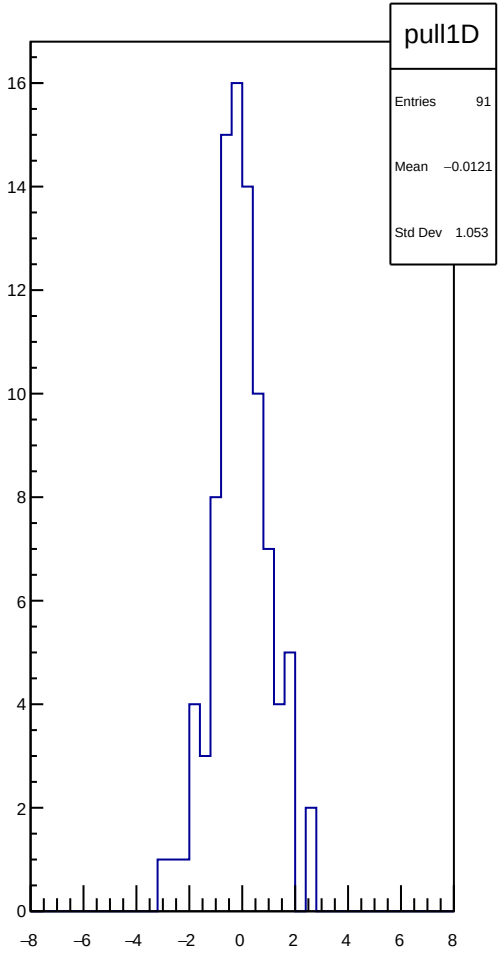

pull1D
Entries 91
Mean −0.008675
Std Dev 0.9561

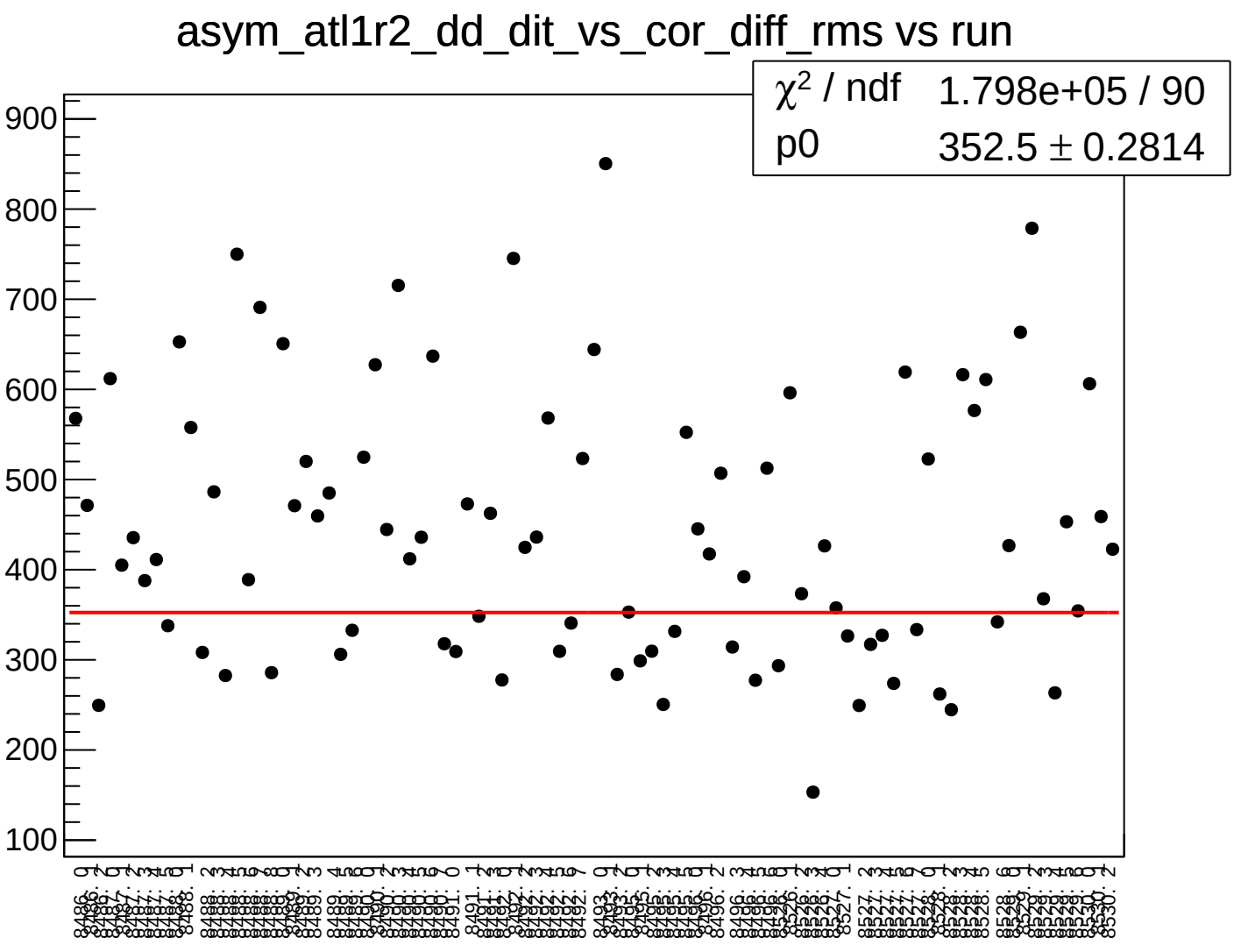

asym_atl1r2_dd_rms vs run
χ² / ndf 93.87 / 90
p0 2e+04 ± 15.13
20400
20200
20000
19800
19600
19400

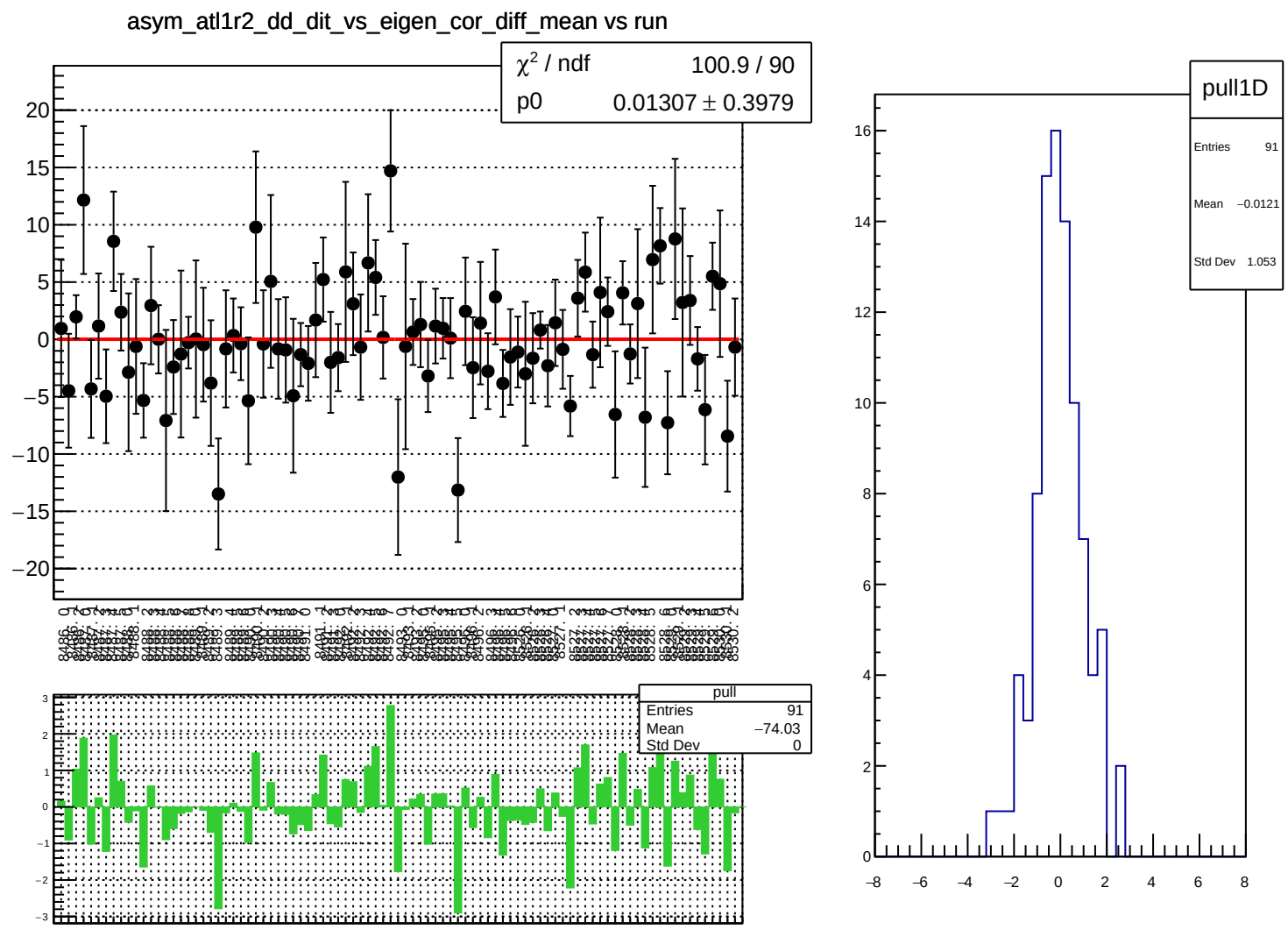

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 78.08 / 90
p0 −1.633e−13 ± 1.254e−13
pull
Entries 91
Mean 50.9
Std Dev 0
pull1D
Entries 91
Mean 0.105
Std Dev 0.9203

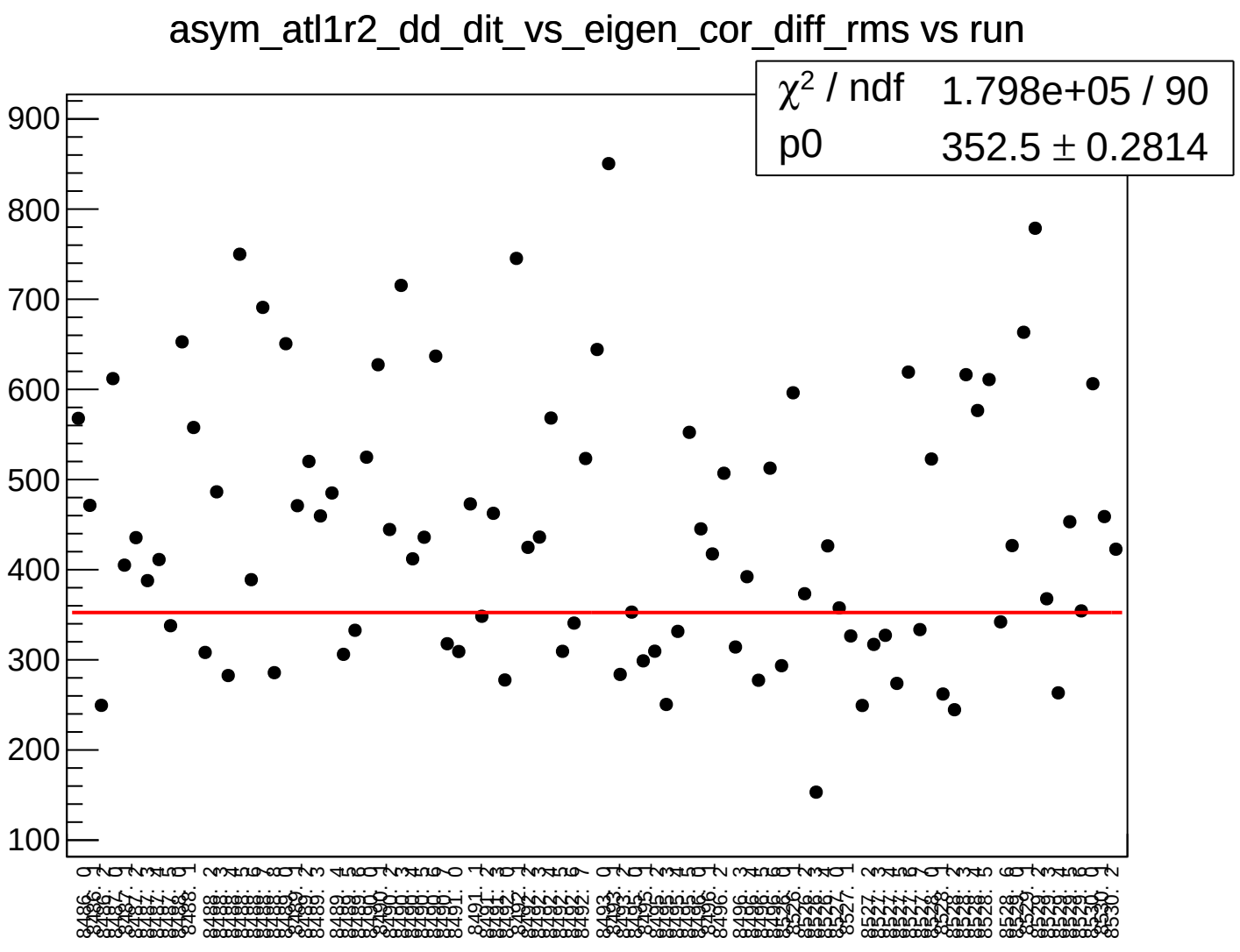

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.359e+06 / 90
p0 5.541e−11 ± 8.866e−14
0
2
4
6
8
10
12
14

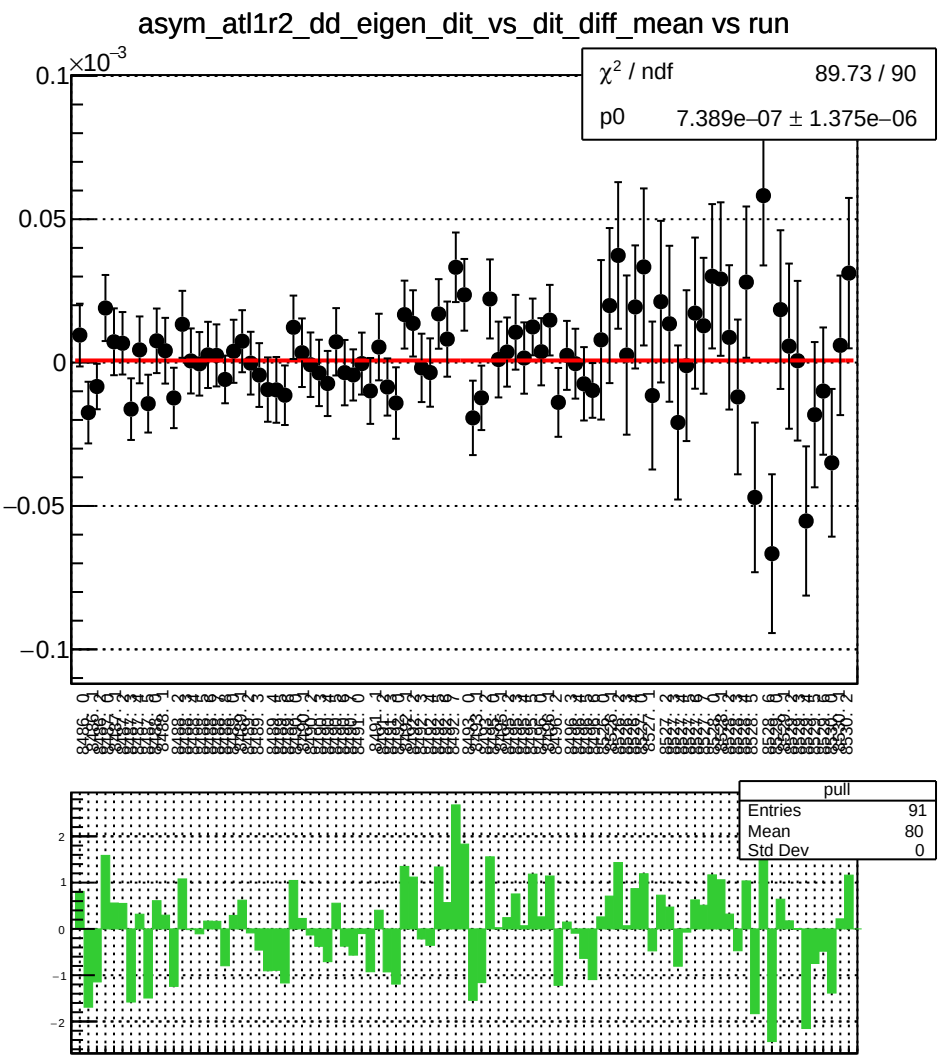

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 100.9 / 90
p0 0.01307 ± 0.3979
pull
Entries 91
Mean −74.03
Std Dev 0

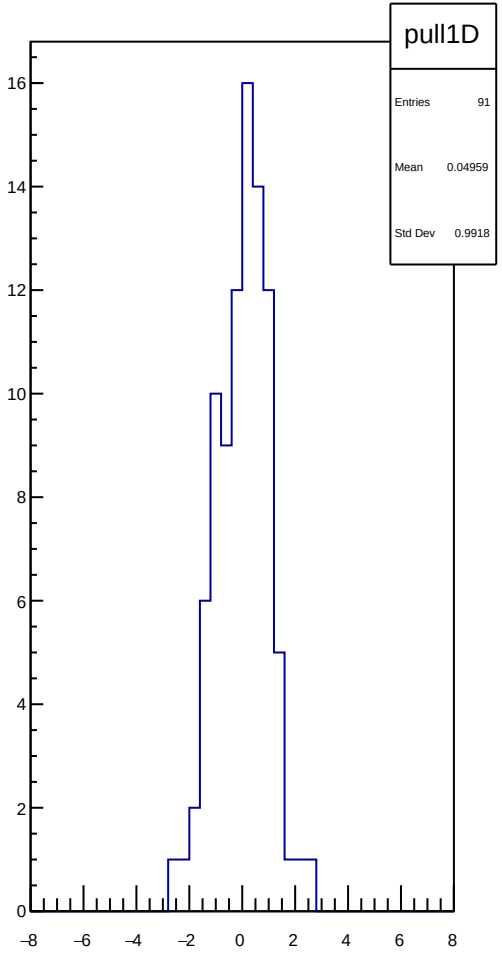

pull1D
Entries 91
Mean −0.0121
Std Dev 1.053

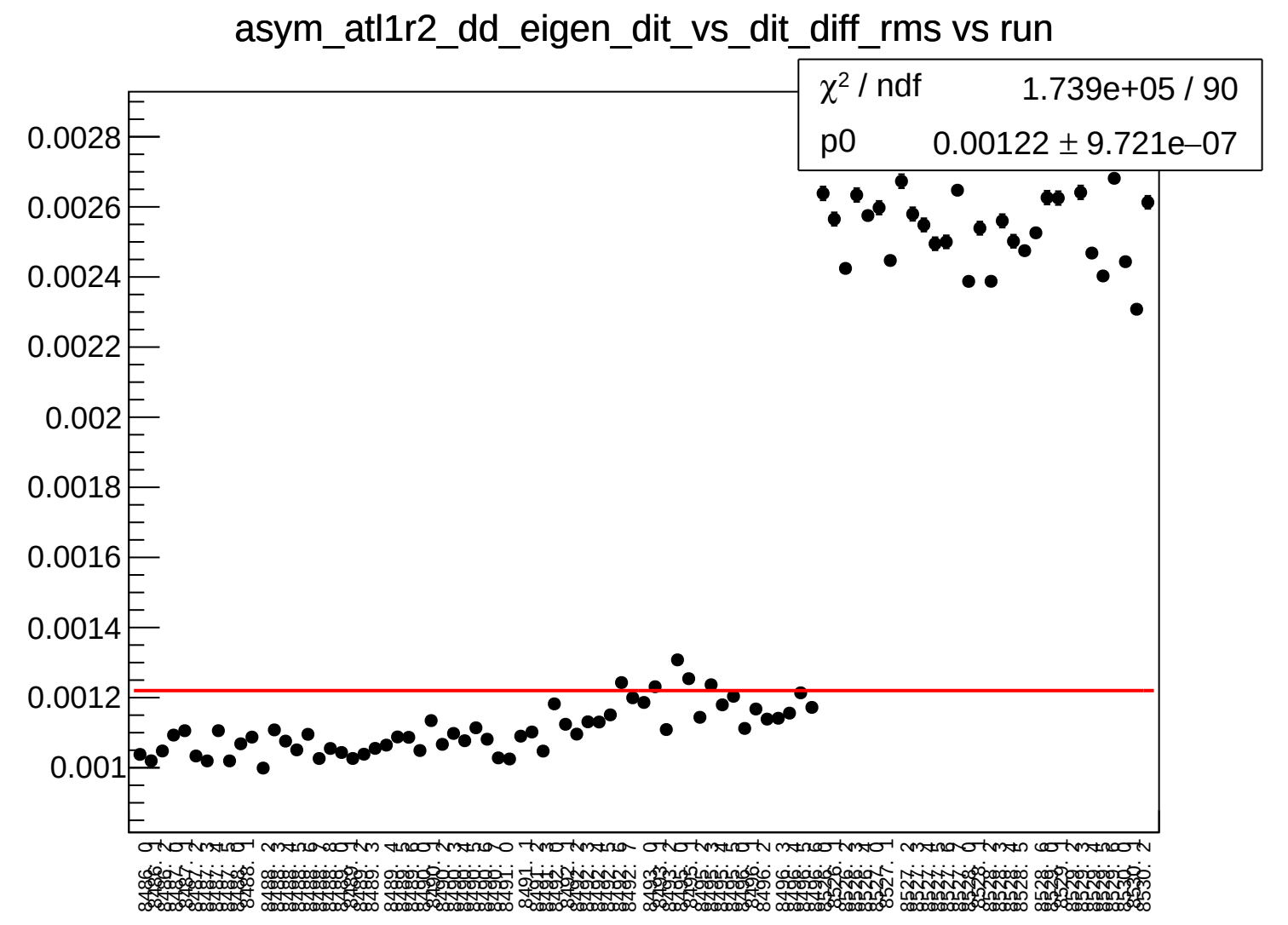

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.798e+05 / 90
p0 352.5 ± 0.2814
900
800
700
600
500
400
300
200
100

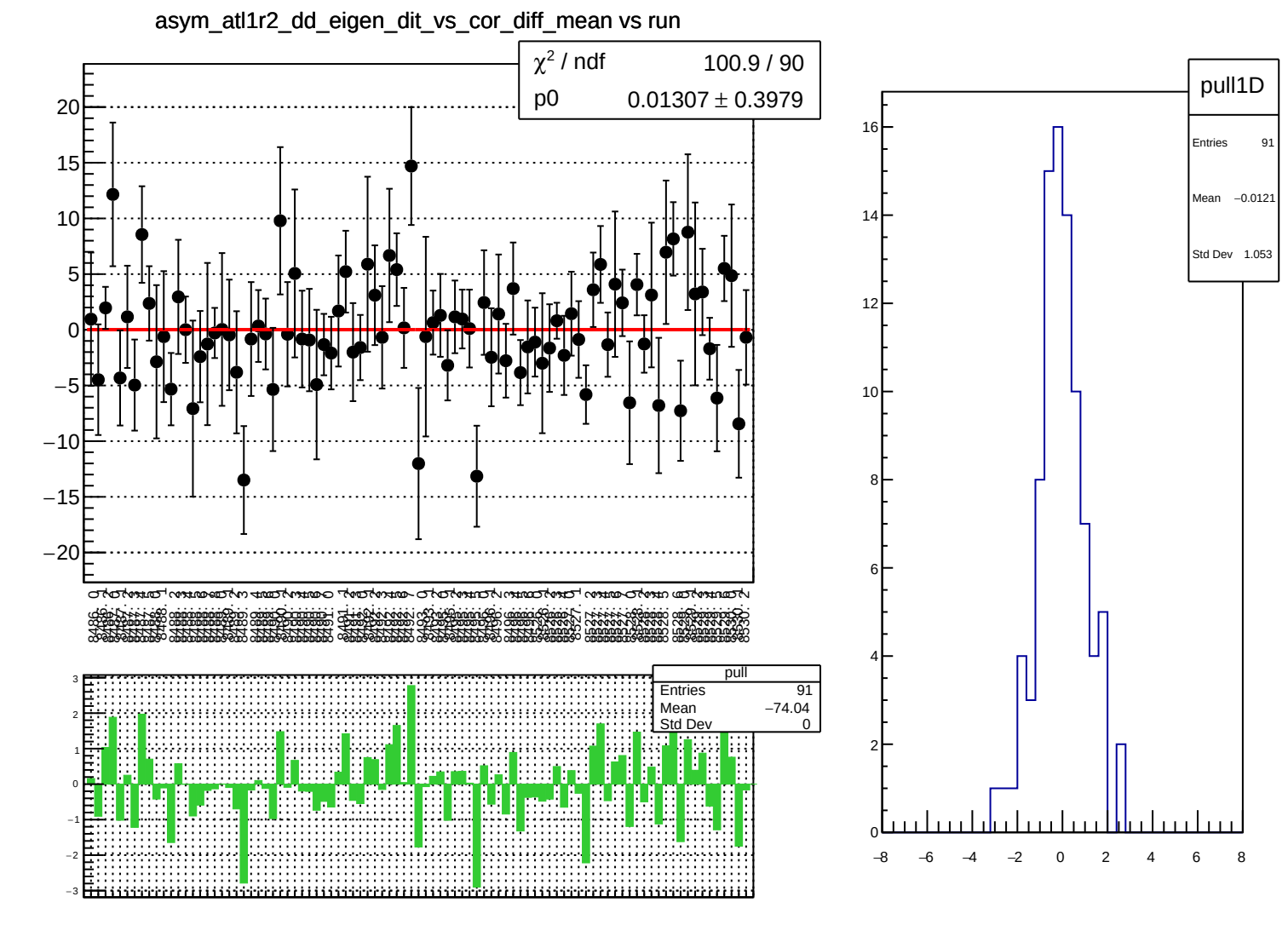

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.9 / 90
p0 0.01307 ± 0.3979
pull
Entries 91
Mean −74.03
Std Dev 0
pull1D
Entries 91
Mean −0.0121
Std Dev 1.053

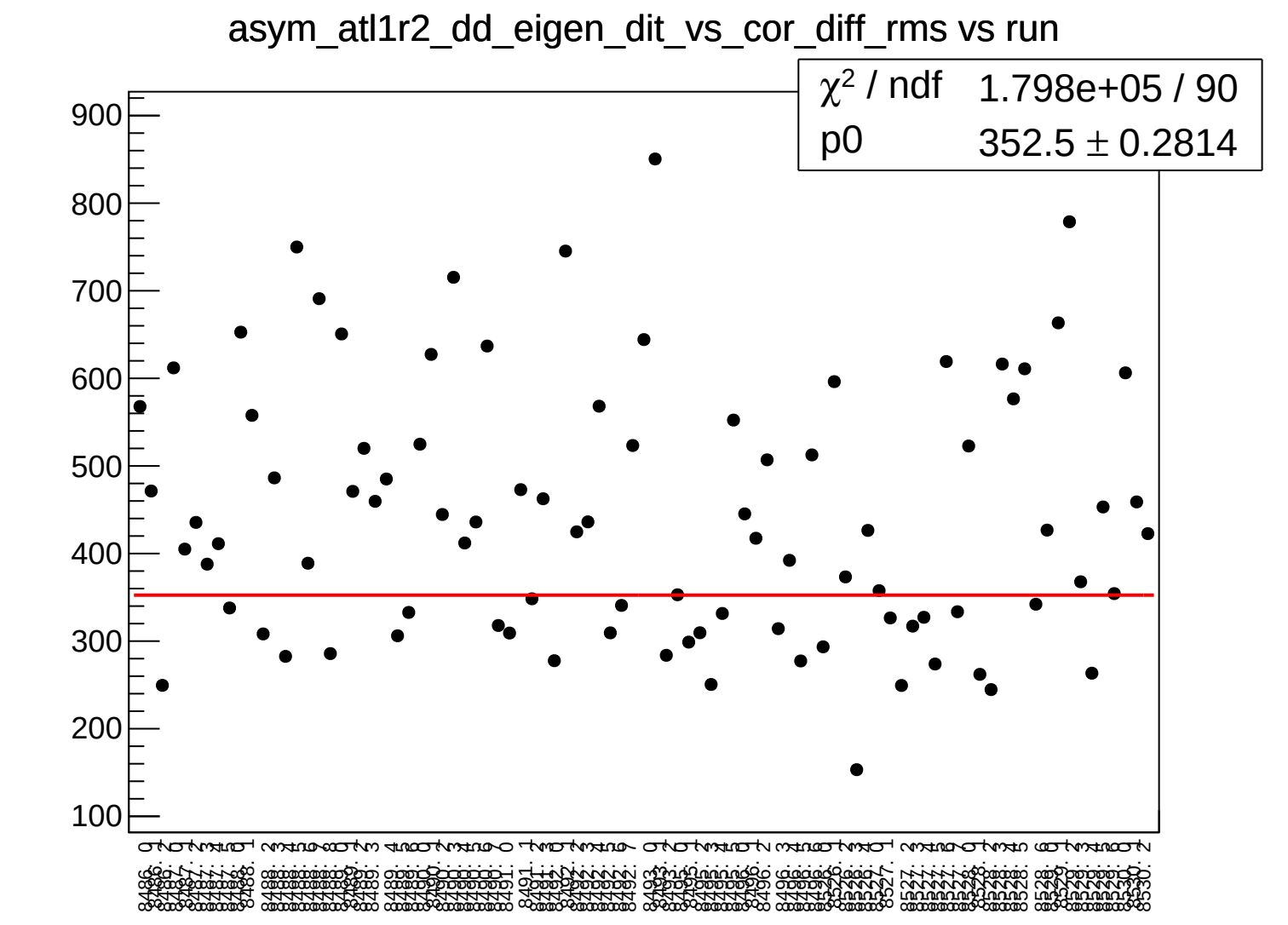

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.798e+05 / 90
p0 352.5 ± 0.2814
900
800
700
600
500
400
300
200
100

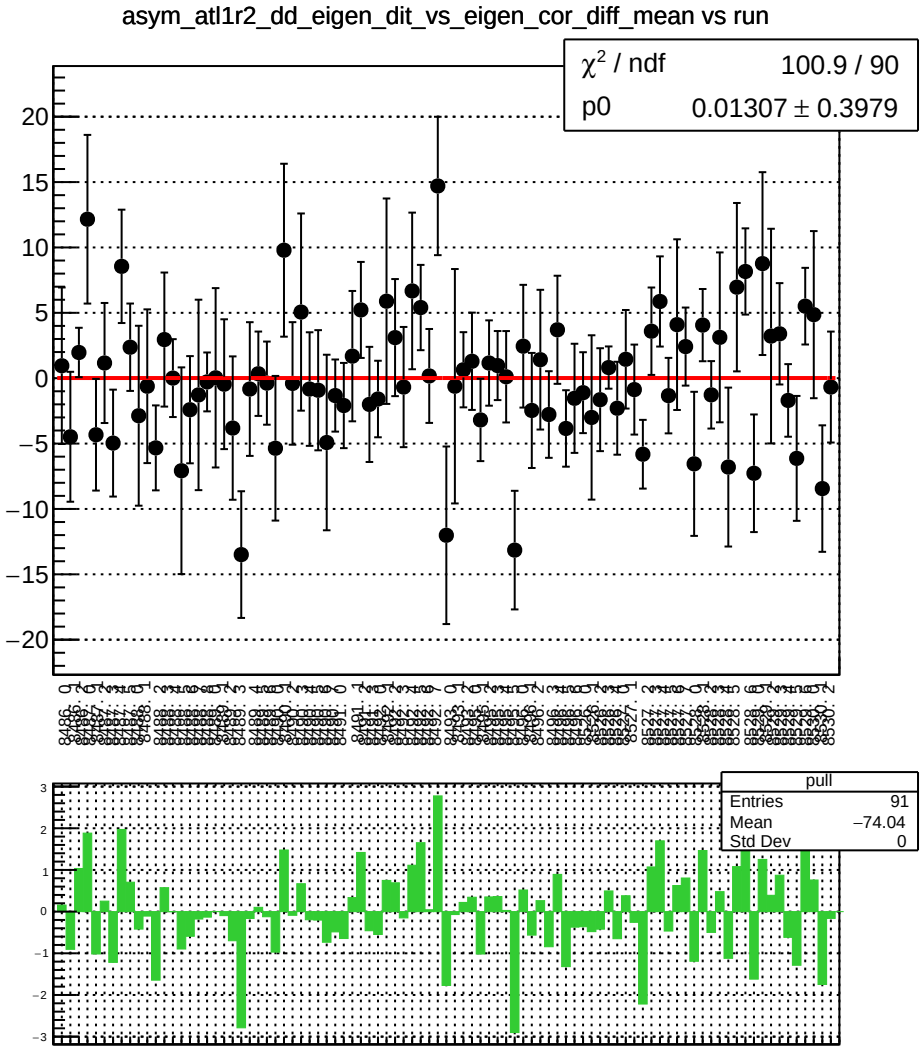

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.73 / 90
p0 7.389e−07 ± 1.375e−06
pull
Entries 91
Mean 80
Std Dev 0

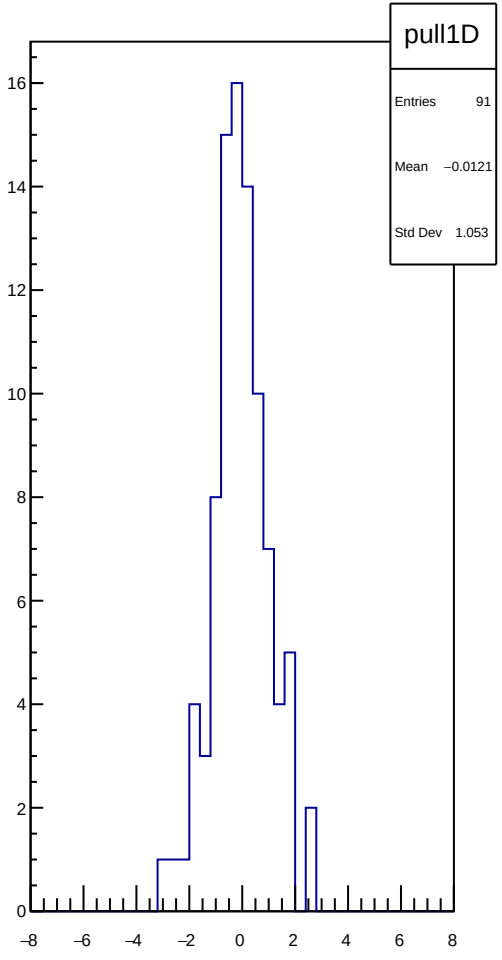

pull1D
Entries 91
Mean 0.04959
Std Dev 0.9918

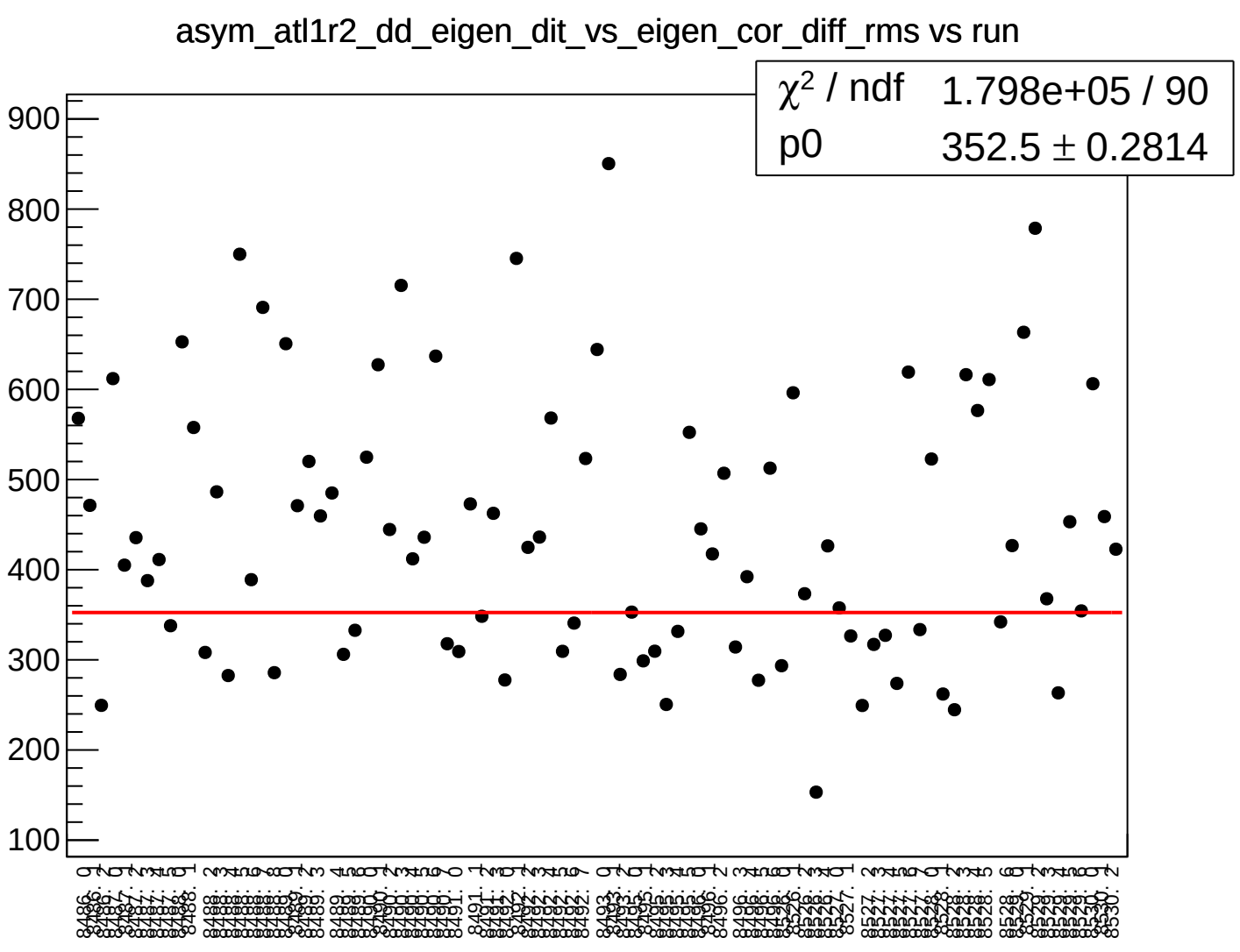

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.739e+05 / 90
p0 0.00122 ± 9.721e–07
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001

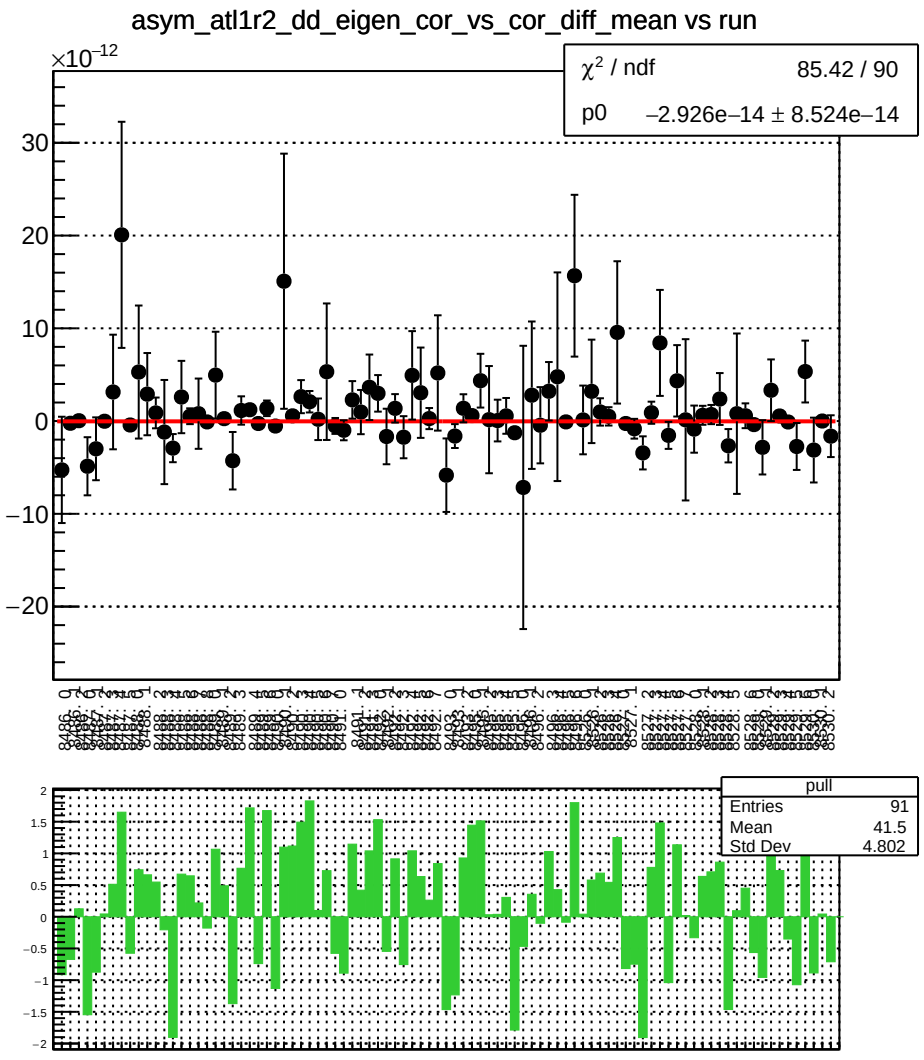

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.9 / 90
p0 0.01307 ± 0.3979
pull
Entries 91
Mean −74.04
Std Dev 0
pull1D
Entries 91
Mean −0.0121
Std Dev 1.053

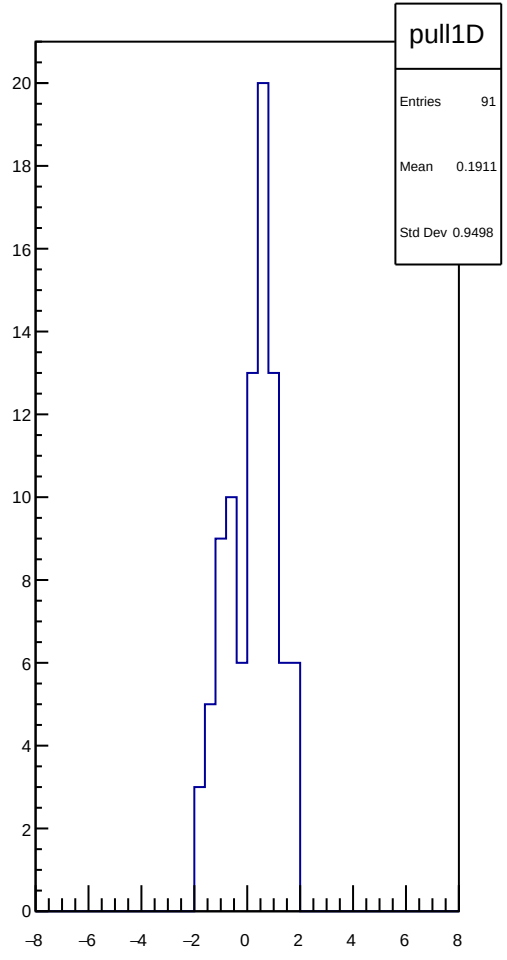

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.798e+05 / 90
p0 352.5 ± 0.2814
900
800
700
600
500
400
300
200
100

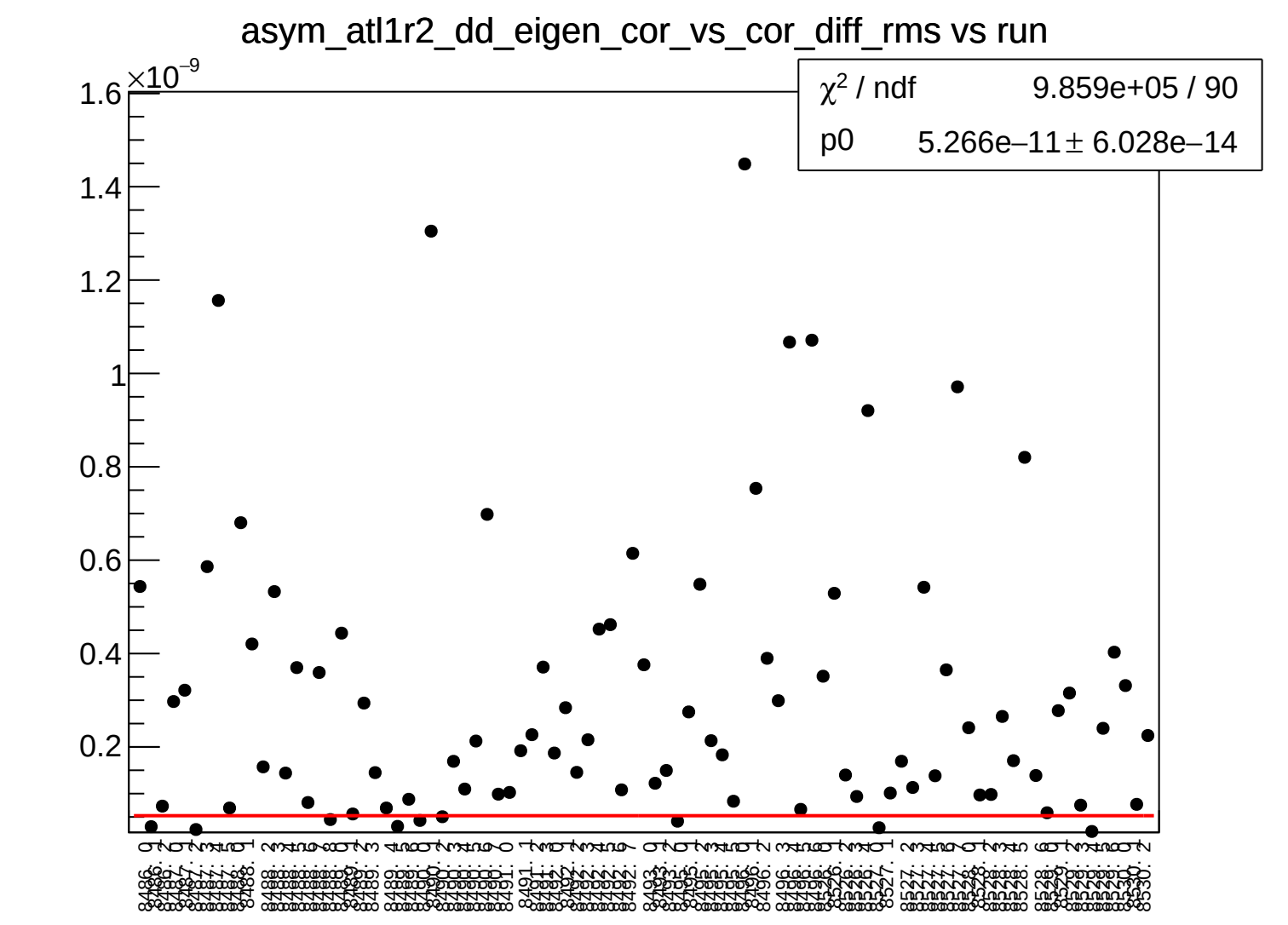

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.9 / 90
p0 0.01307 ± 0.3979
pull
Entries 91
Mean −74.04
Std Dev 0

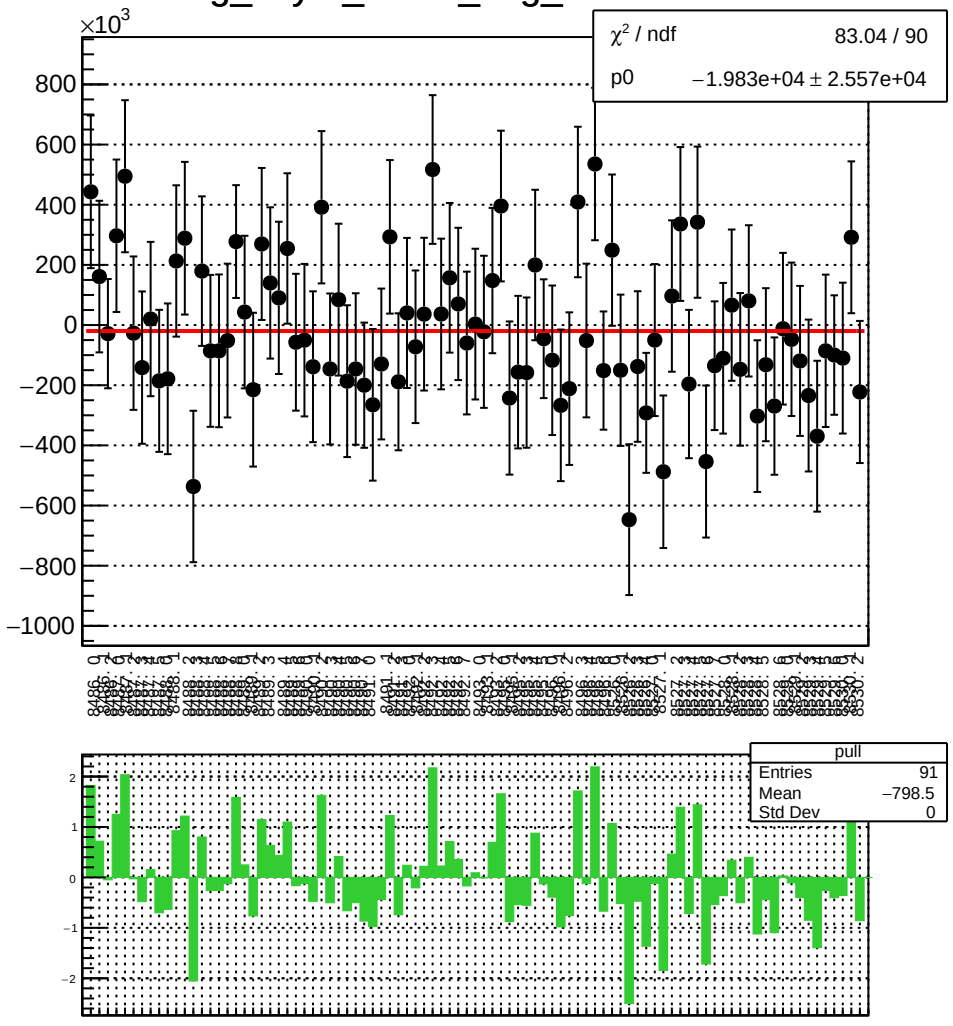

pull1D
Entries 91
Mean −0.0121
Std Dev 1.053

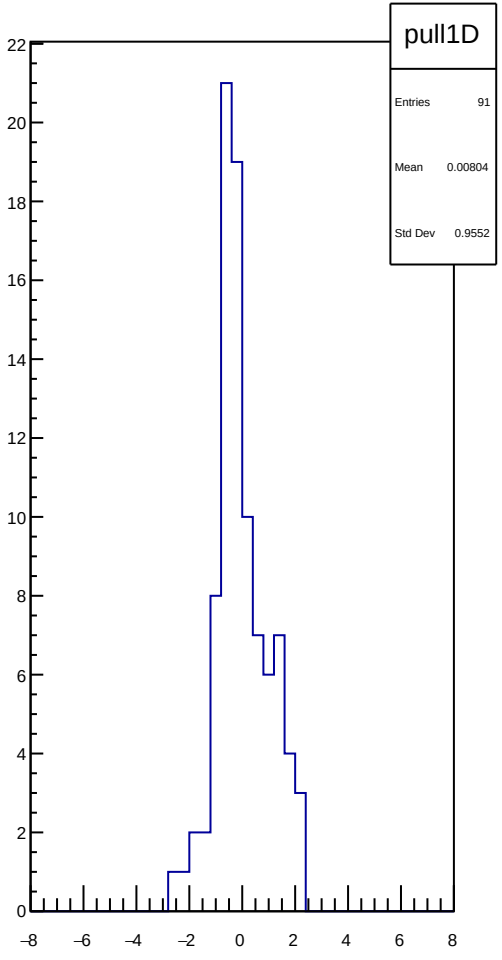

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.798e+05 / 90
p0 352.5 ± 0.2814
900
800
700
600
500
400
300
200
100

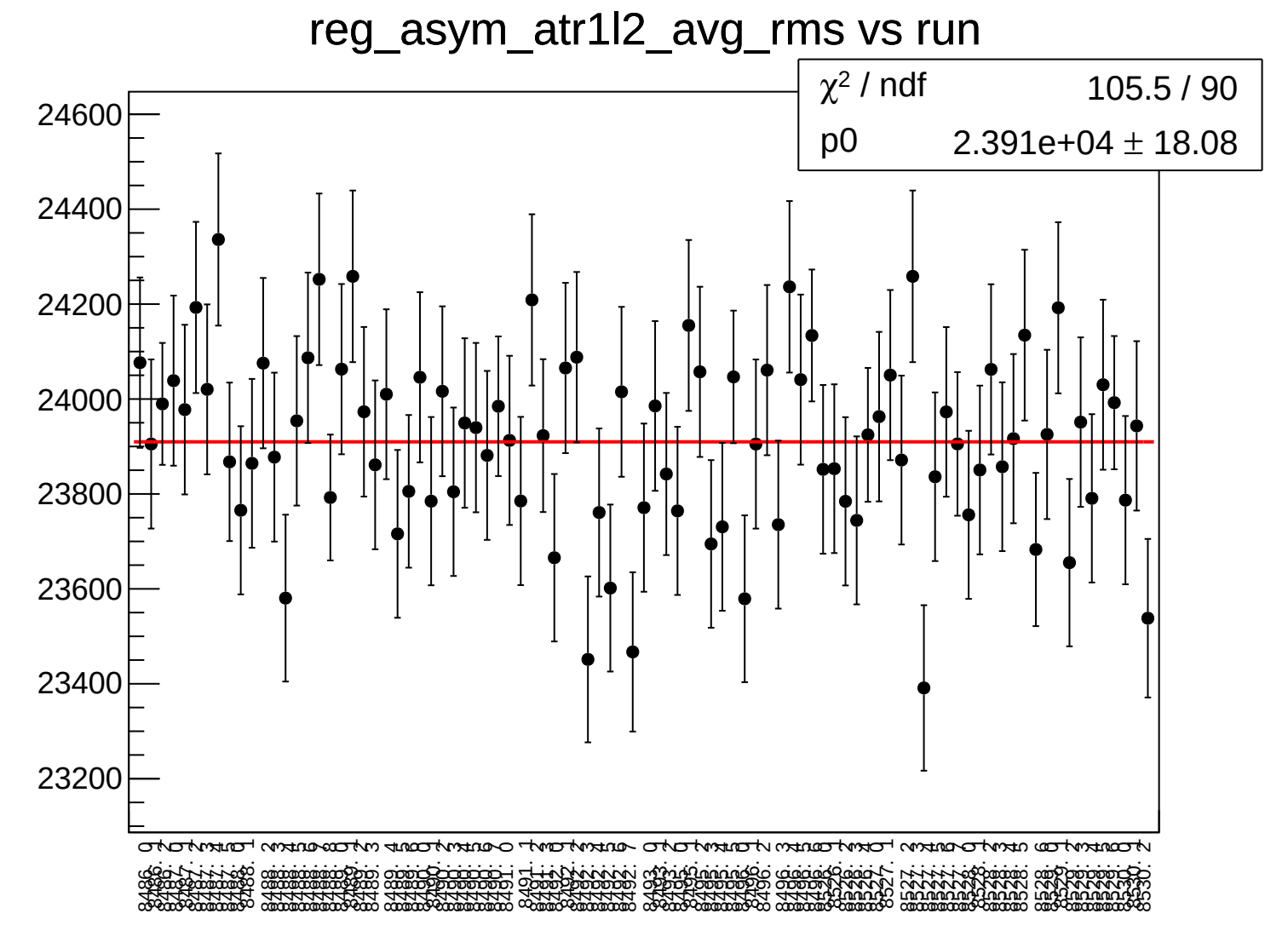

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.42 / 90
p0 −2.926e−14 ± 8.524e−14
pull
Entries 91
Mean 41.5
Std Dev 4.802

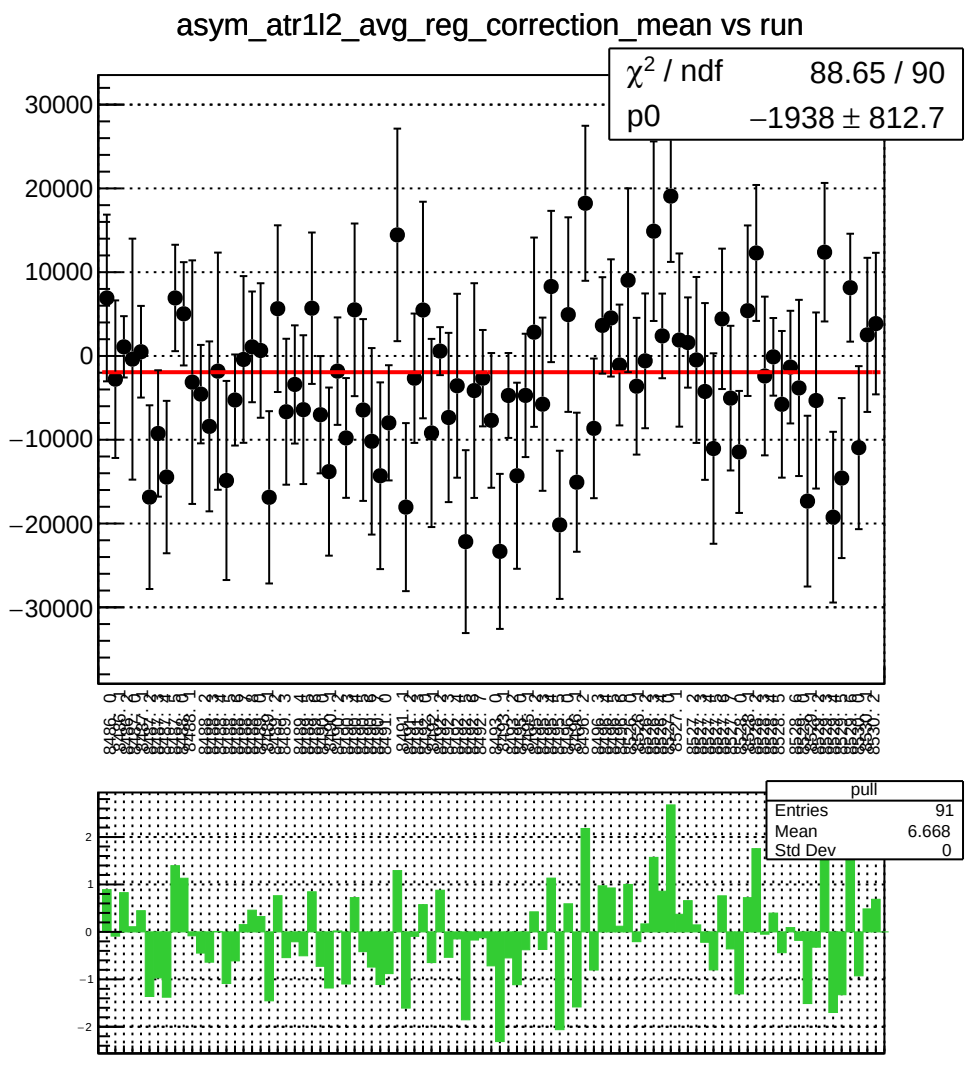

pull1D
Entries 91
Mean 0.1911
Std Dev 0.9498

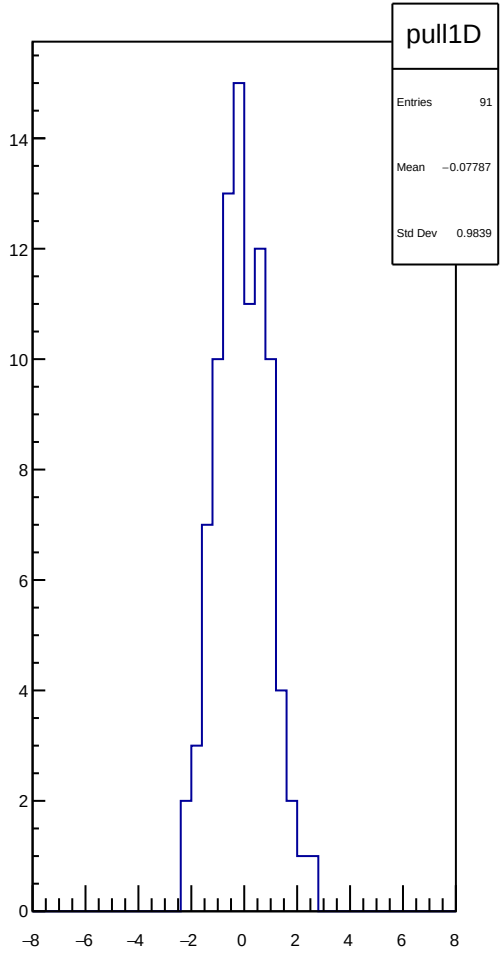

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
χ² / ndf 9.859e+05 / 90
p0 5.266e−11 ± 6.028e−14

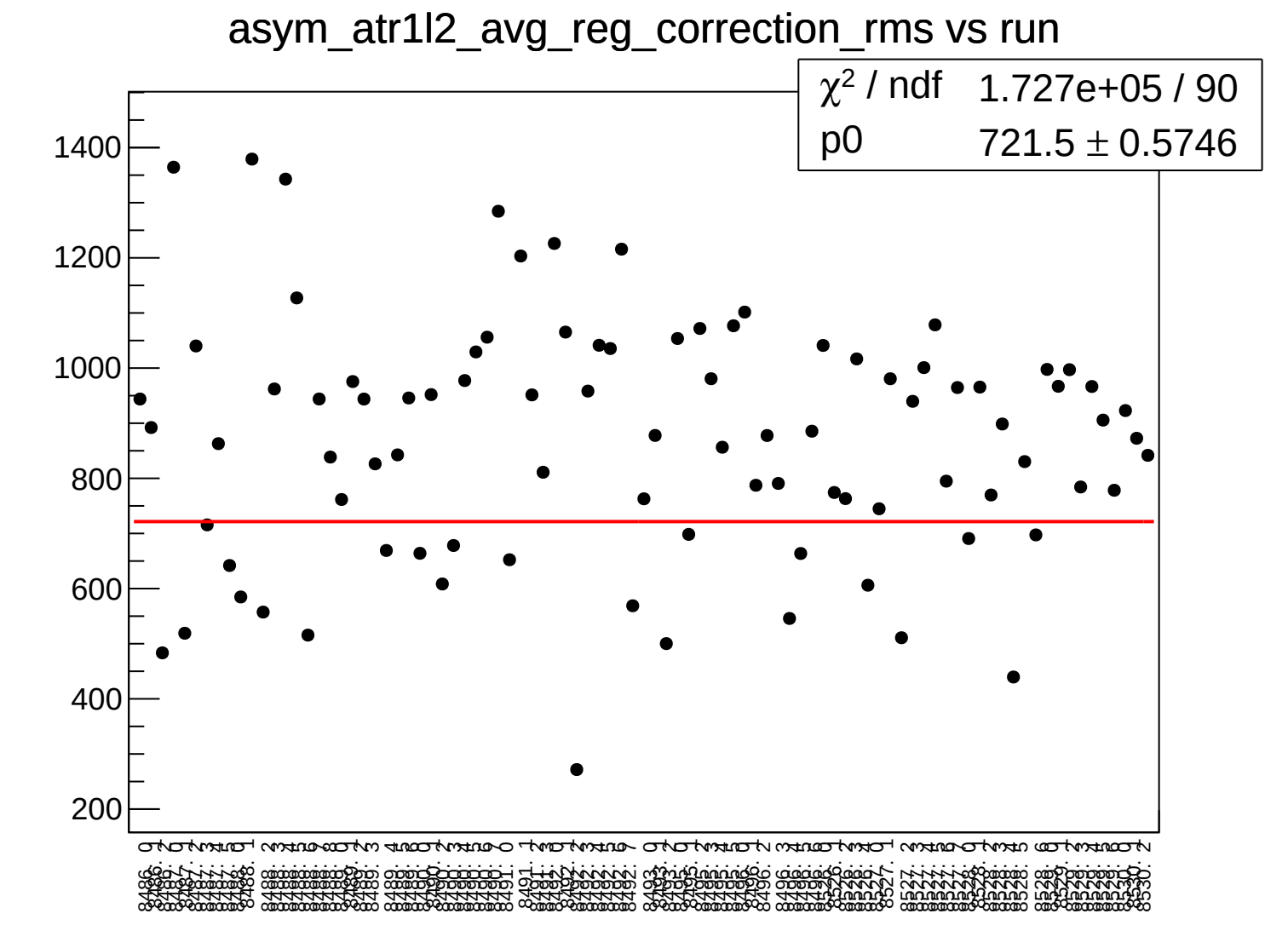

reg_asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 83.04 / 90
p0 −1.983e+04 ± 2.557e+04
pull
Entries 91
Mean −798.5
Std Dev 0

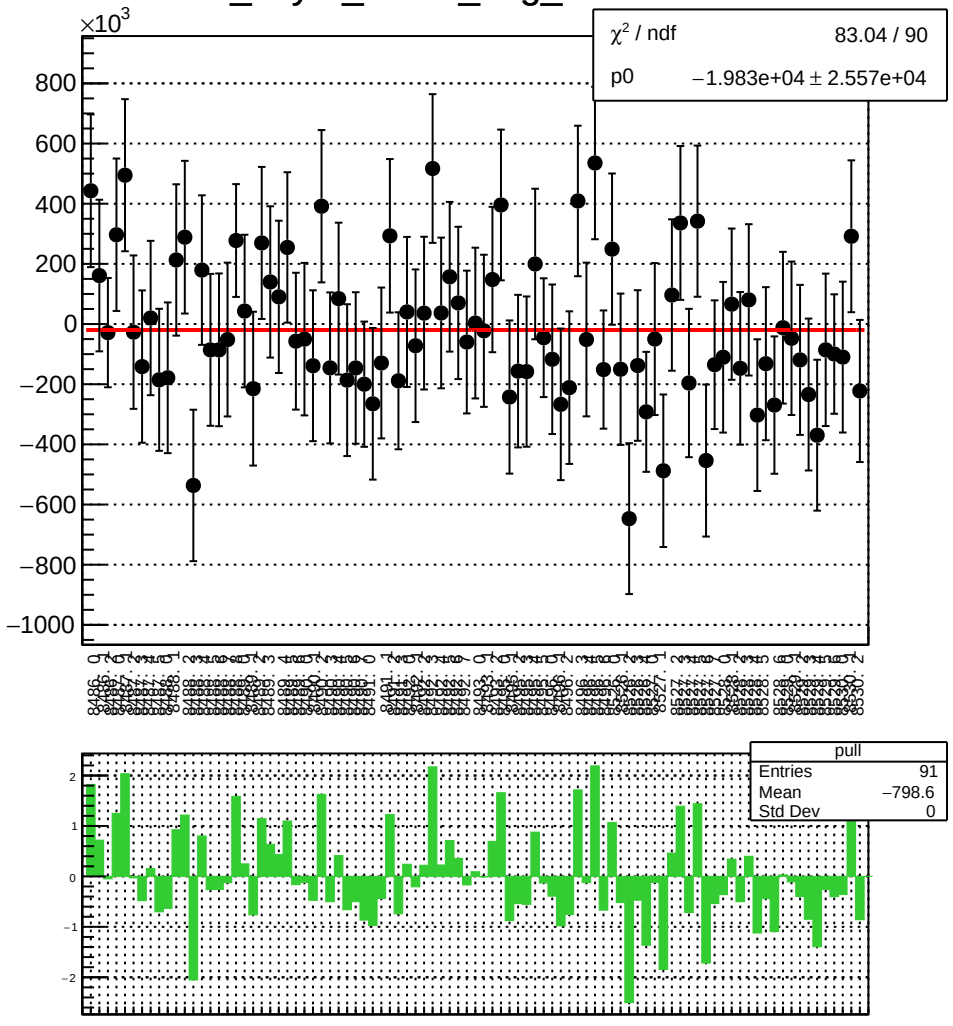

pull1D
Entries 91
Mean 0.00804
Std Dev 0.9552

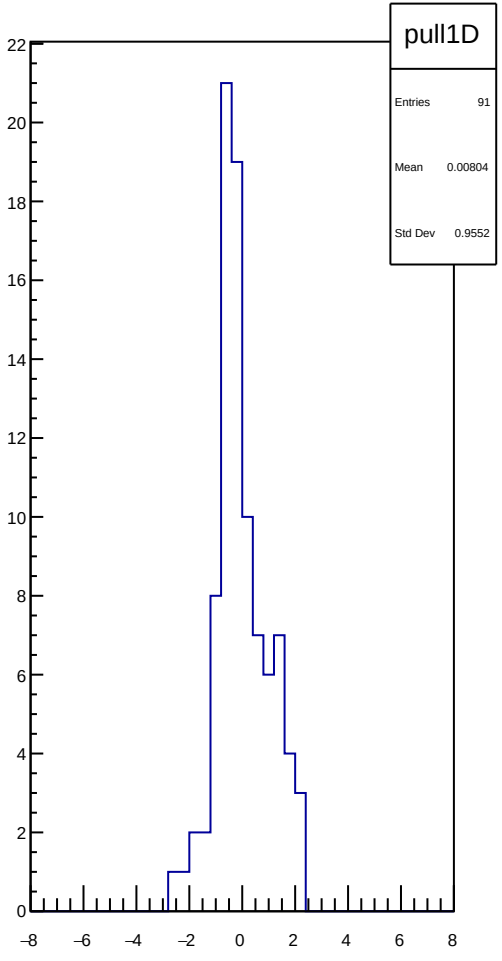

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 105.5 / 90
p0 2.391e+04 ± 18.08
24600
24400
24200
24000
23800
23600
23400
23200

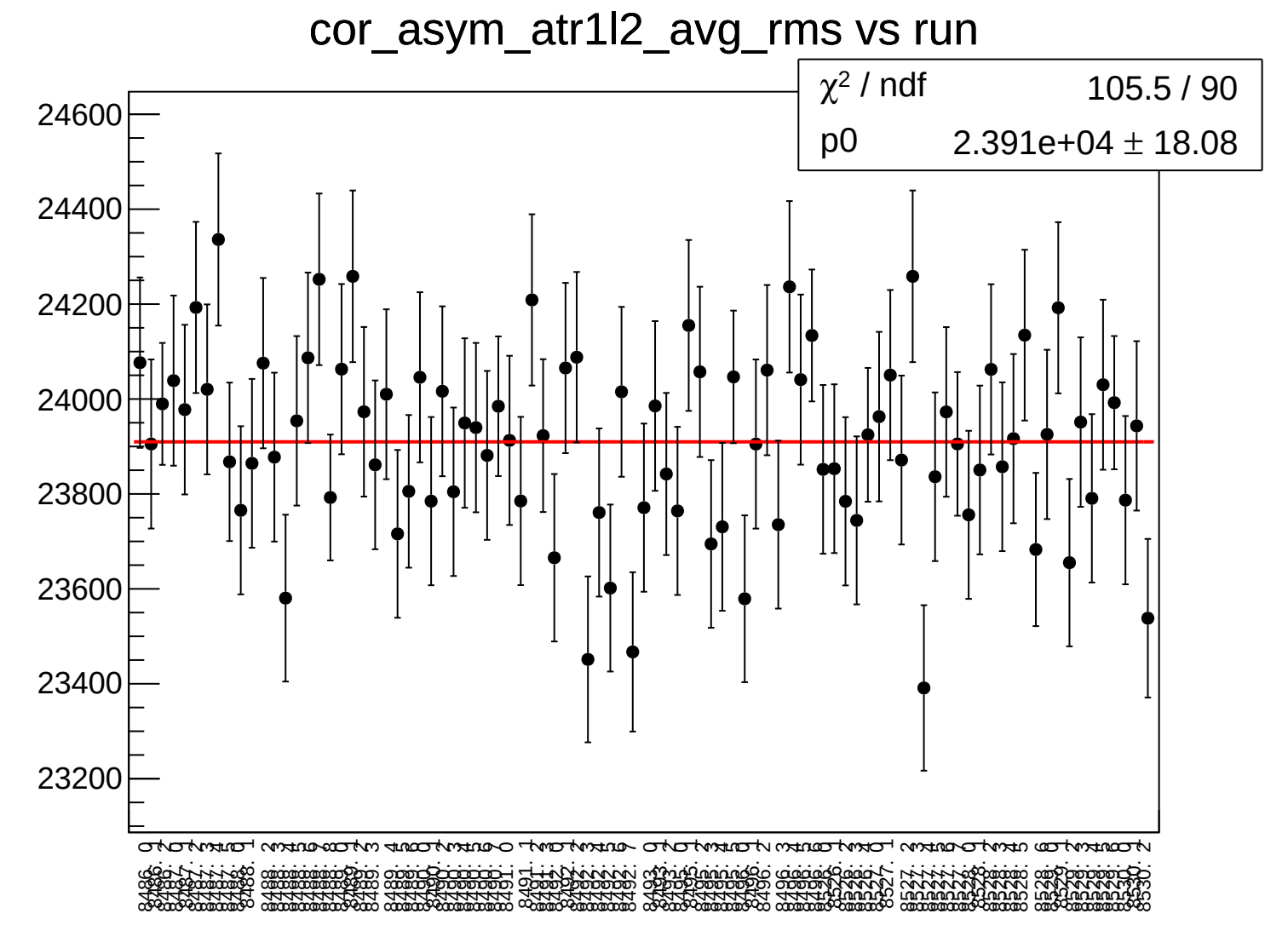

asym_atr1l2_avg_reg_correction_mean vs run
χ² / ndf 88.65 / 90
p0 −1938 ± 812.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 6.668
Std Dev 0
2
1
0
−1
−2

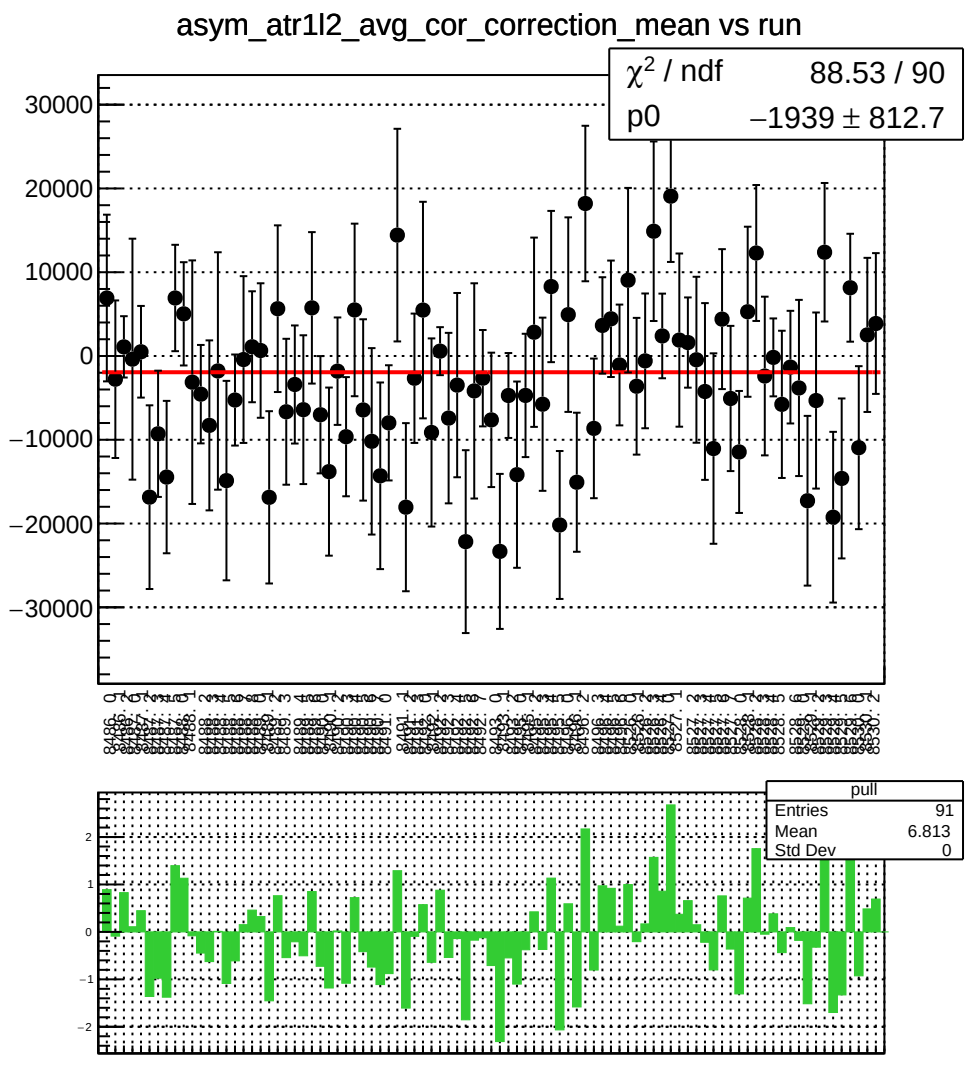

pull1D
Entries 91
Mean −0.07787
Std Dev 0.9839
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

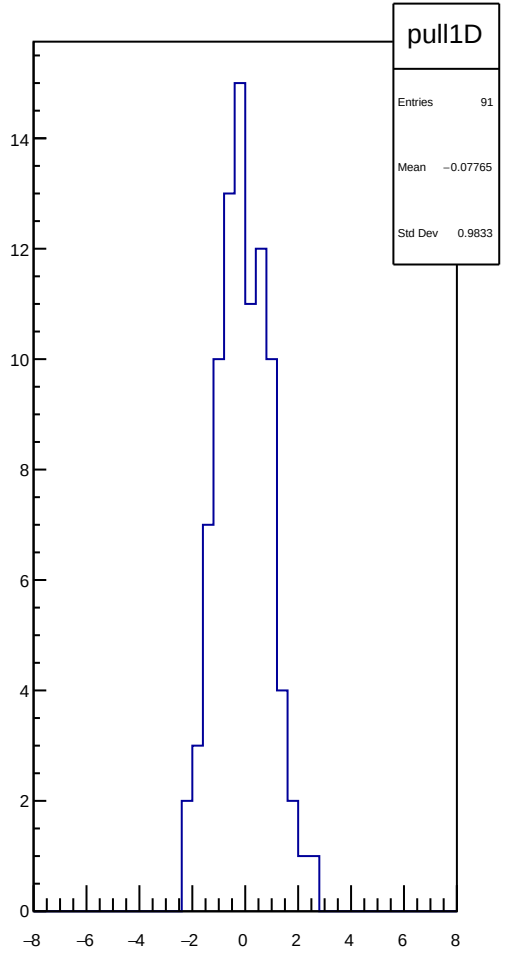

asym_atr1l2_avg_reg_correction_rms vs run
χ² / ndf 1.727e+05 / 90
p0 721.5 ± 0.5746
1400
1200
1000
800
600
400
200

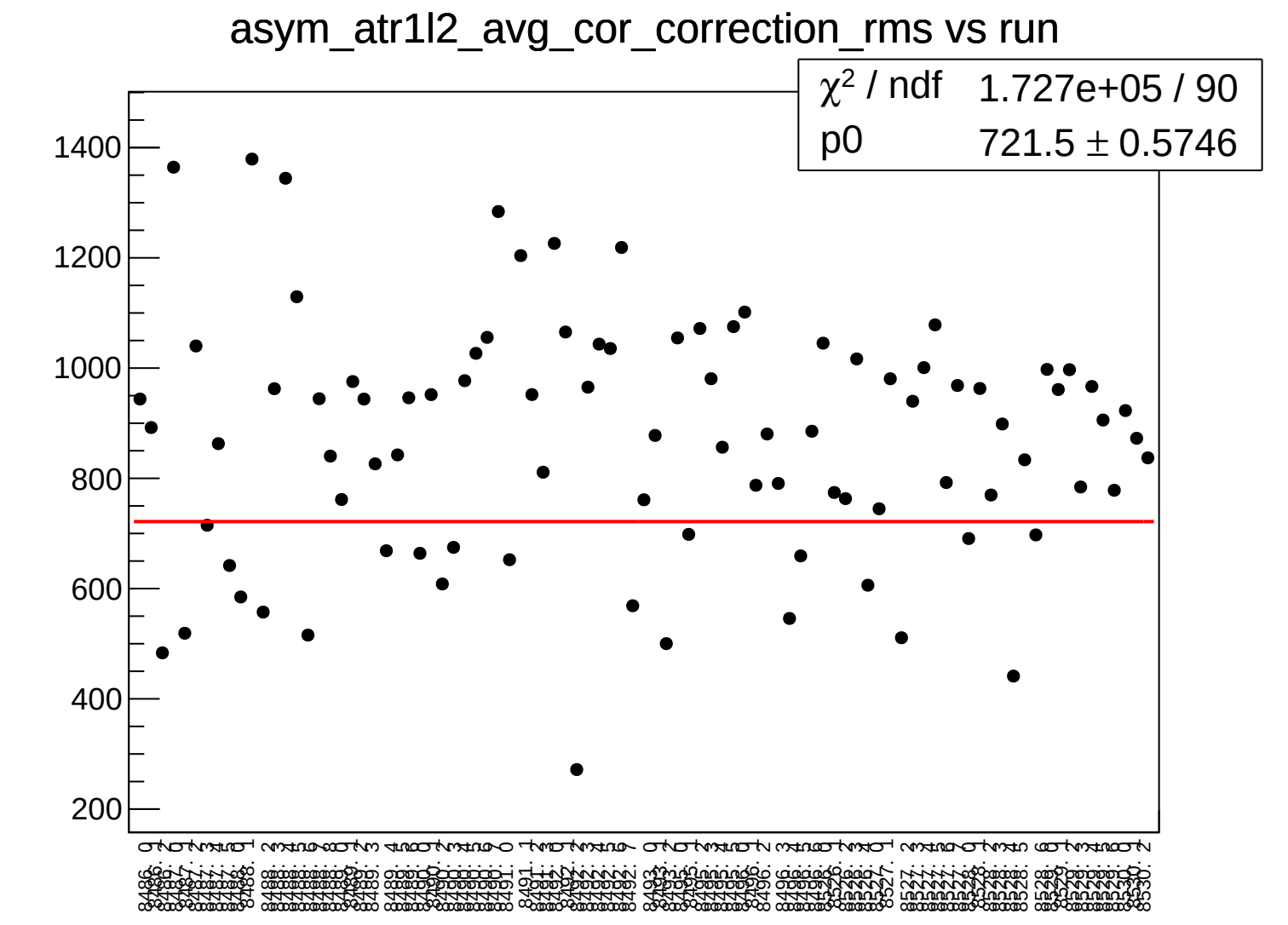

cor_asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 83.04 / 90
p0 −1.983e+04 ± 2.557e+04
pull
Entries 91
Mean −798.6
Std Dev 0

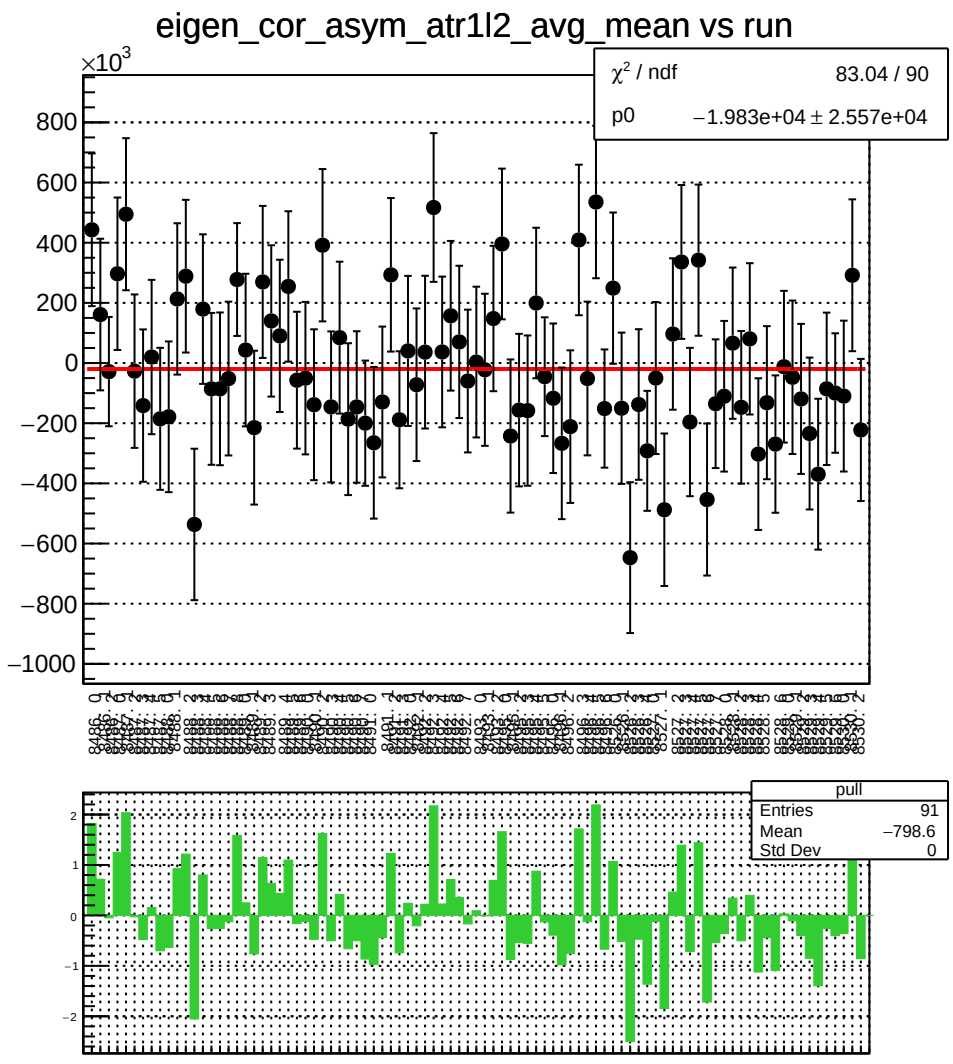

pull1D
Entries 91
Mean 0.00804
Std Dev 0.9552

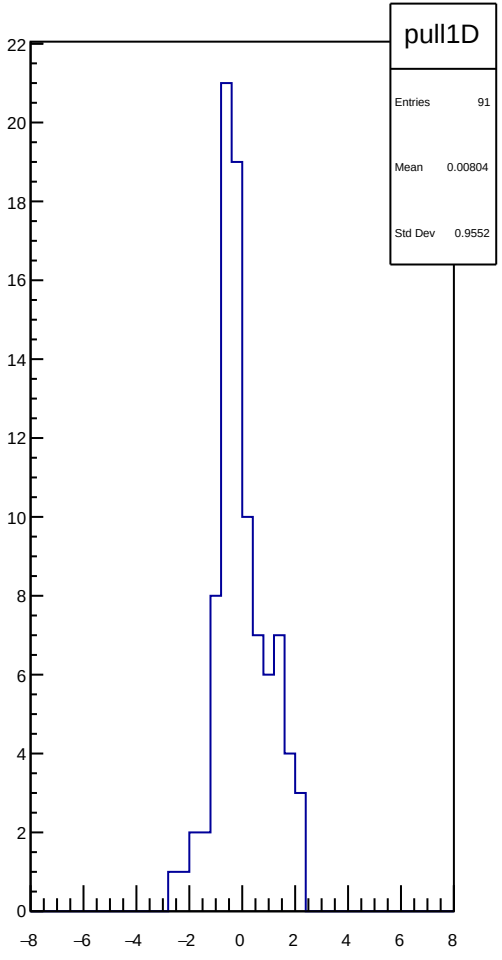

cor_asym_atr1l2_avg_rms vs run
χ² / ndf 105.5 / 90
p0 2.391e+04 ± 18.08
24600
24400
24200
24000
23800
23600
23400
23200

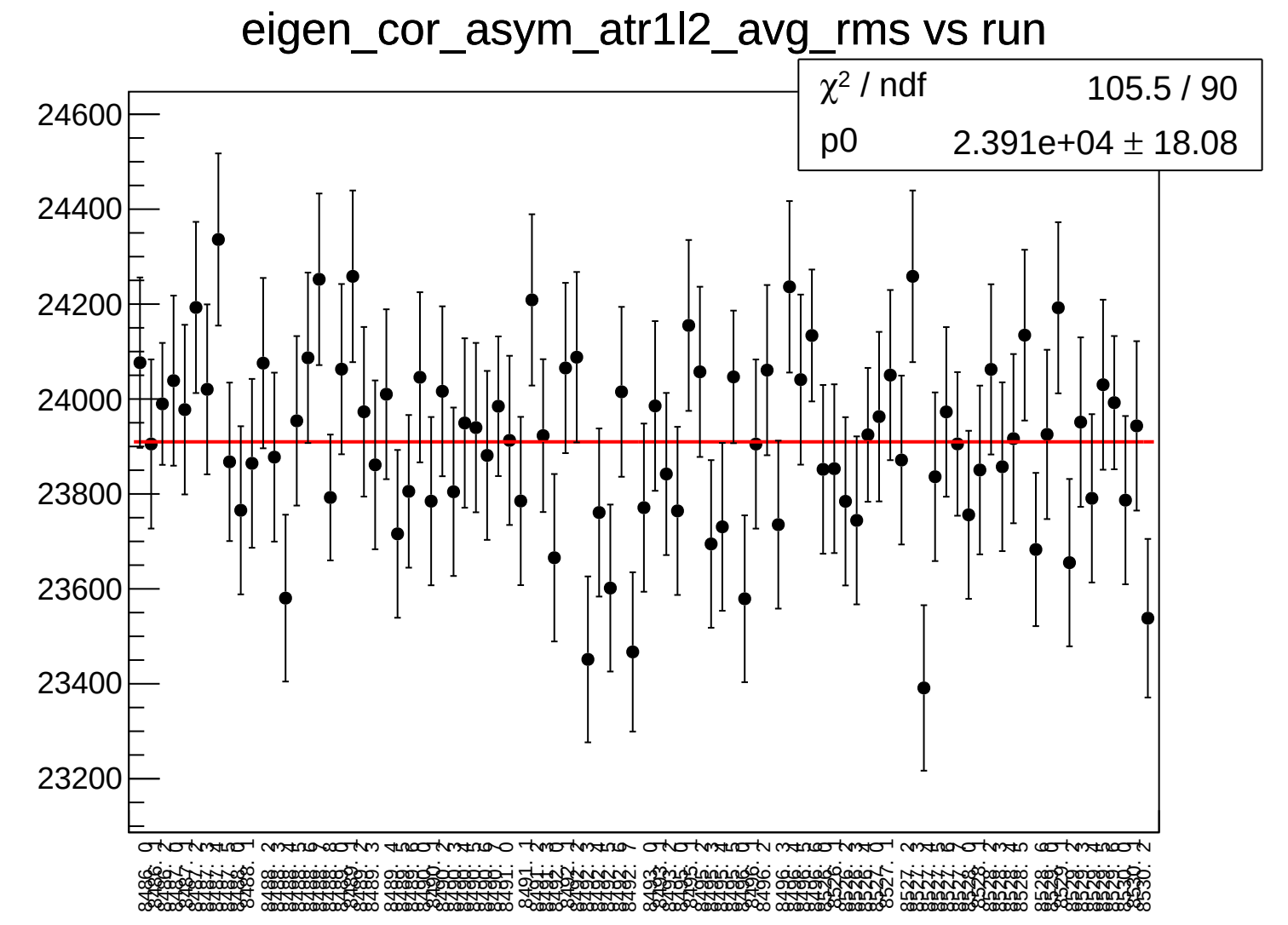

asym_atr1l2_avg_cor_correction_mean vs run
χ² / ndf 88.53 / 90
p0 −1939 ± 812.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 6.813
Std Dev 0
2
1
0
−1
−2

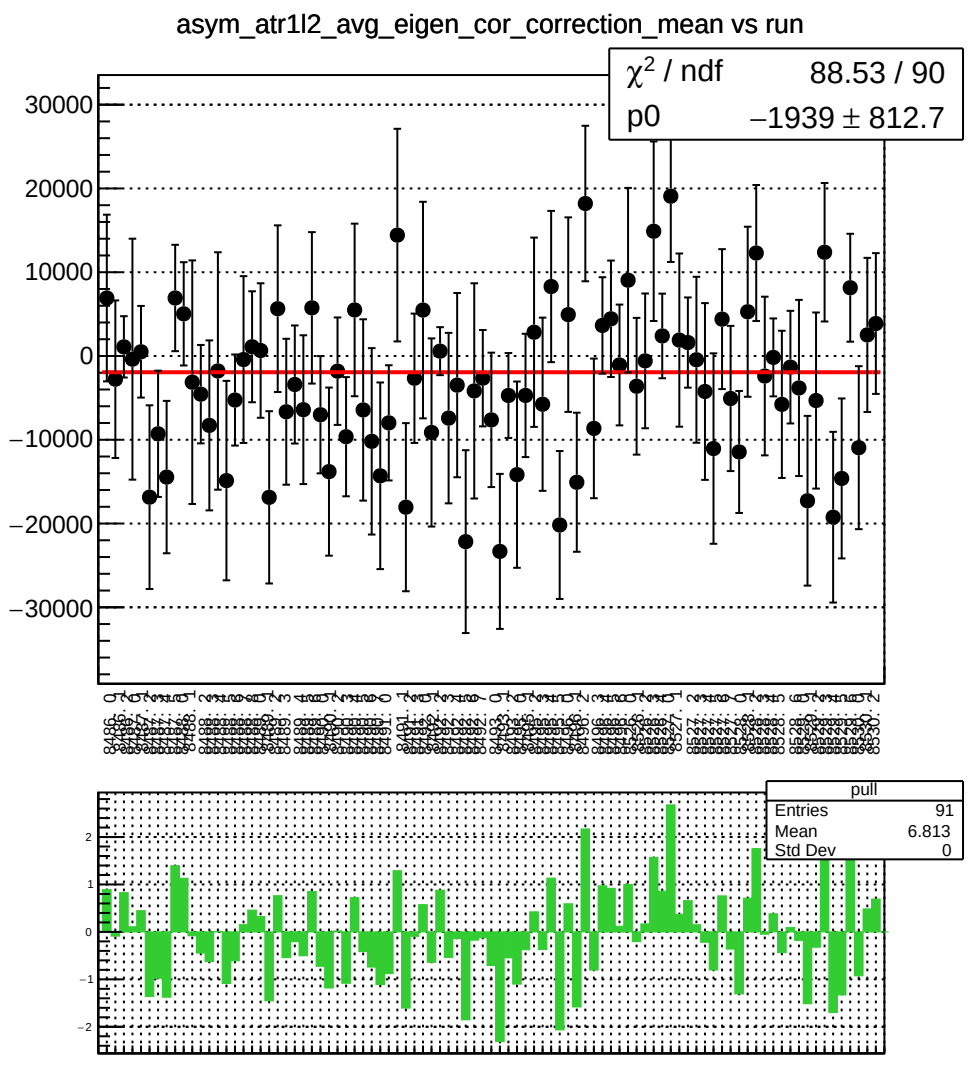

pull1D
Entries 91
Mean −0.07765
Std Dev 0.9833
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

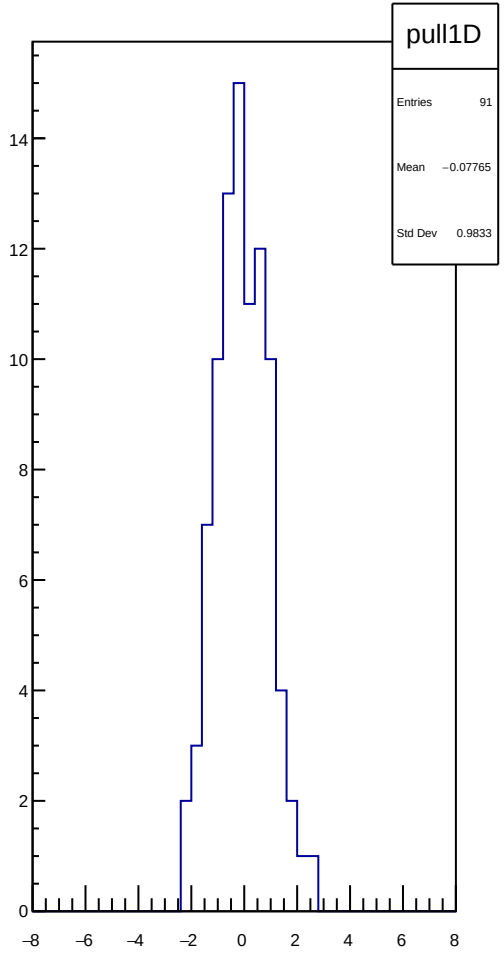

asym_atr1l2_avg_cor_correction_rms vs run
χ² / ndf 1.727e+05 / 90
p0 721.5 ± 0.5746
1400
1200
1000
800
600
400
200

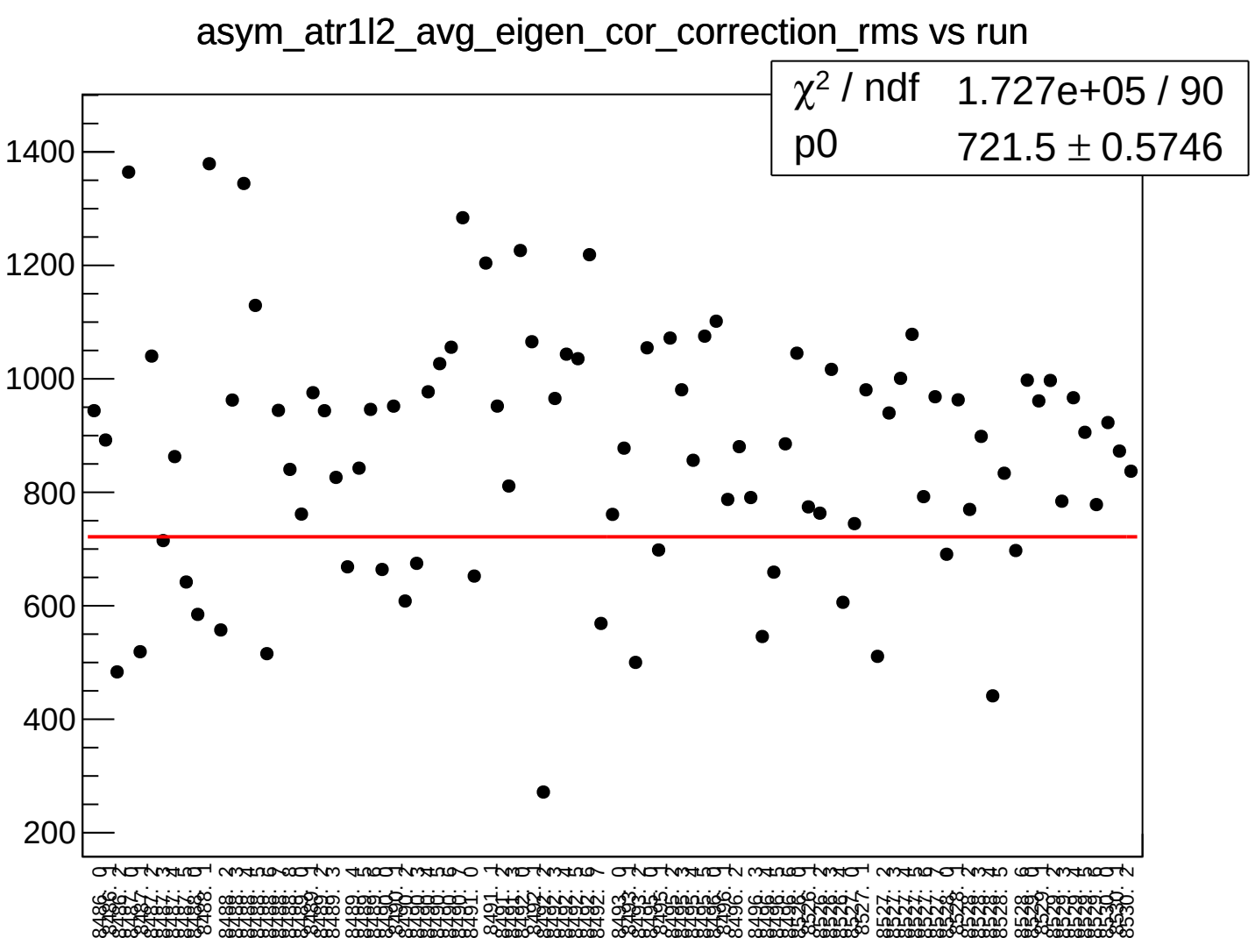

eigen_cor_asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 83.04 / 90
p0 −1.983e+04 ± 2.557e+04
pull
Entries 91
Mean −798.6
Std Dev 0

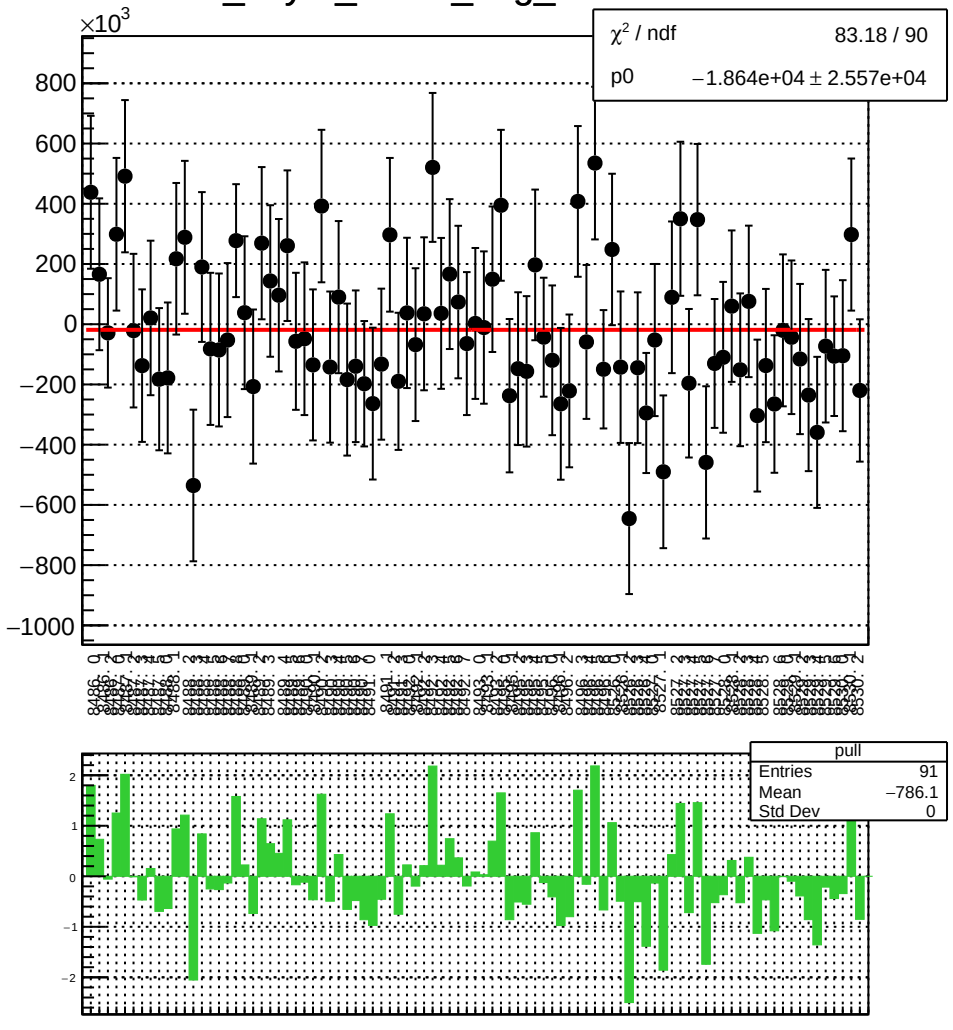

pull1D
Entries 91
Mean 0.00804
Std Dev 0.9552

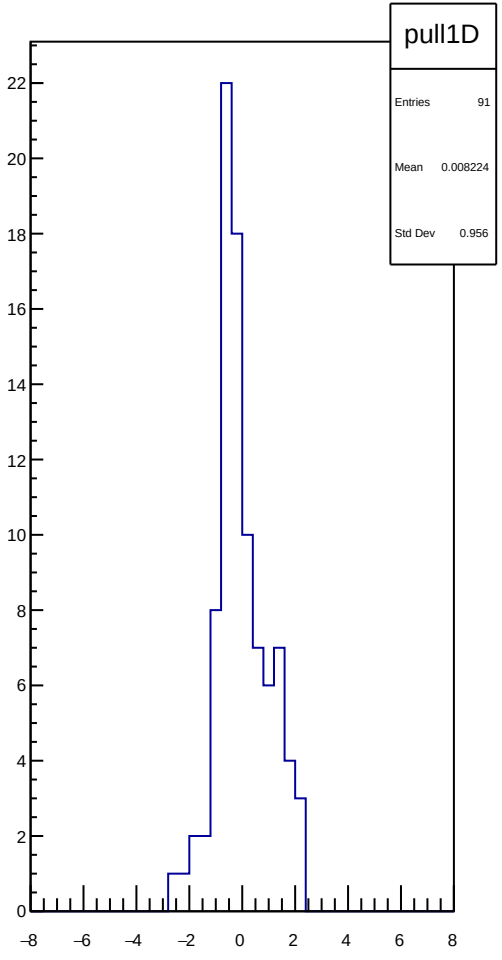

eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 105.5 / 90
p0 2.391e+04 ± 18.08
24600
24400
24200
24000
23800
23600
23400
23200

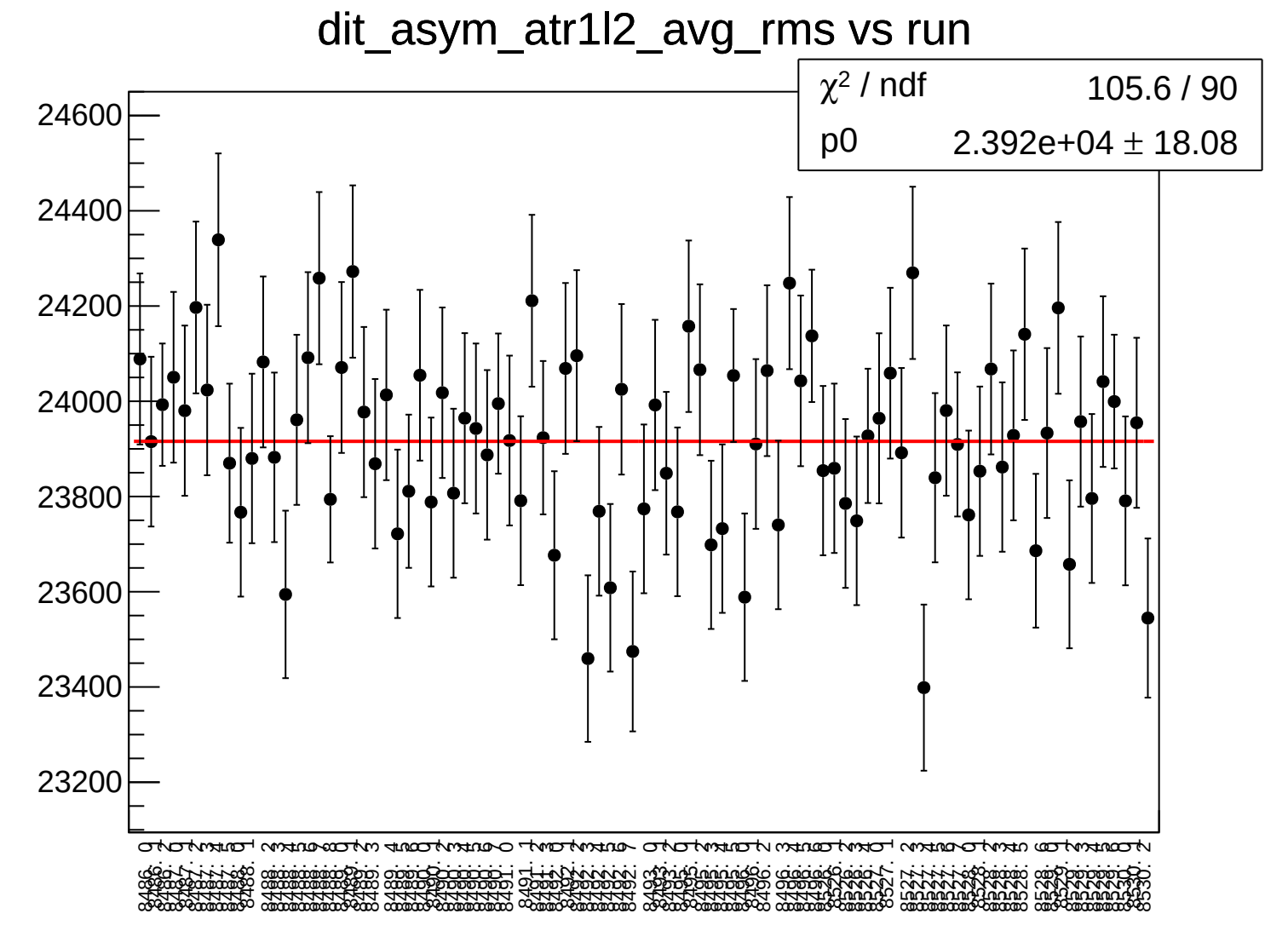

asym_atr1l2_avg_eigen_cor_correction_mean vs run
χ² / ndf 88.53 / 90
p0 −1939 ± 812.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 6.813
Std Dev 0
2
1
0
−1
−2

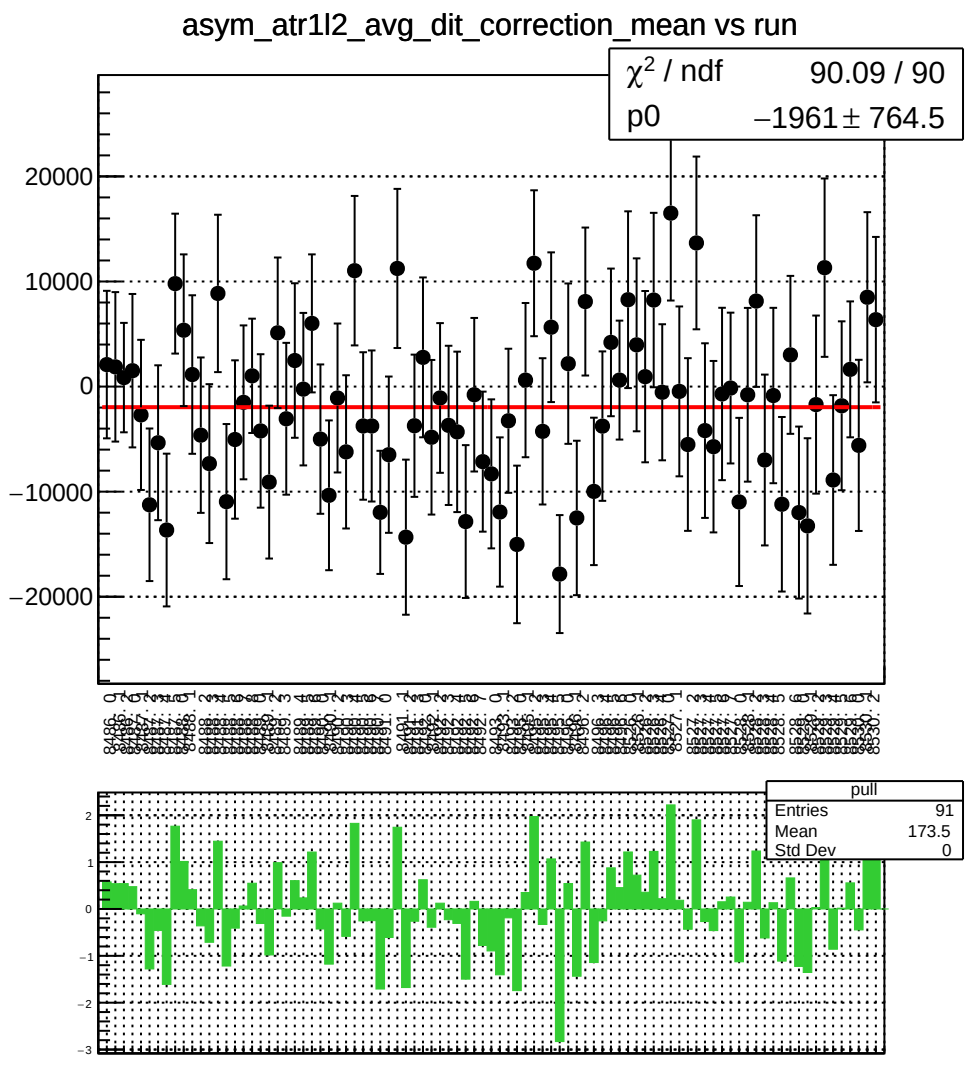

pull1D
Entries 91
Mean −0.07765
Std Dev 0.9833
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

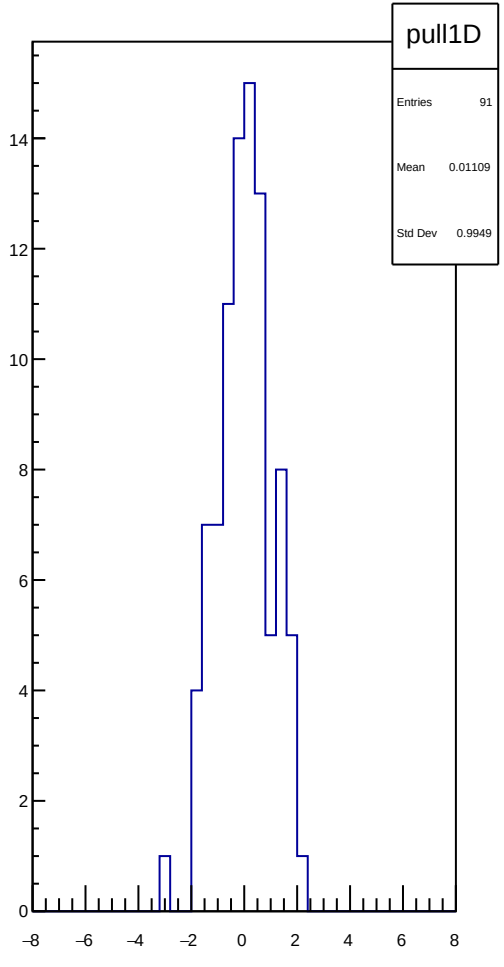

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.727e+05 / 90
p0 721.5 ± 0.5746
1400
1200
1000
800
600
400
200

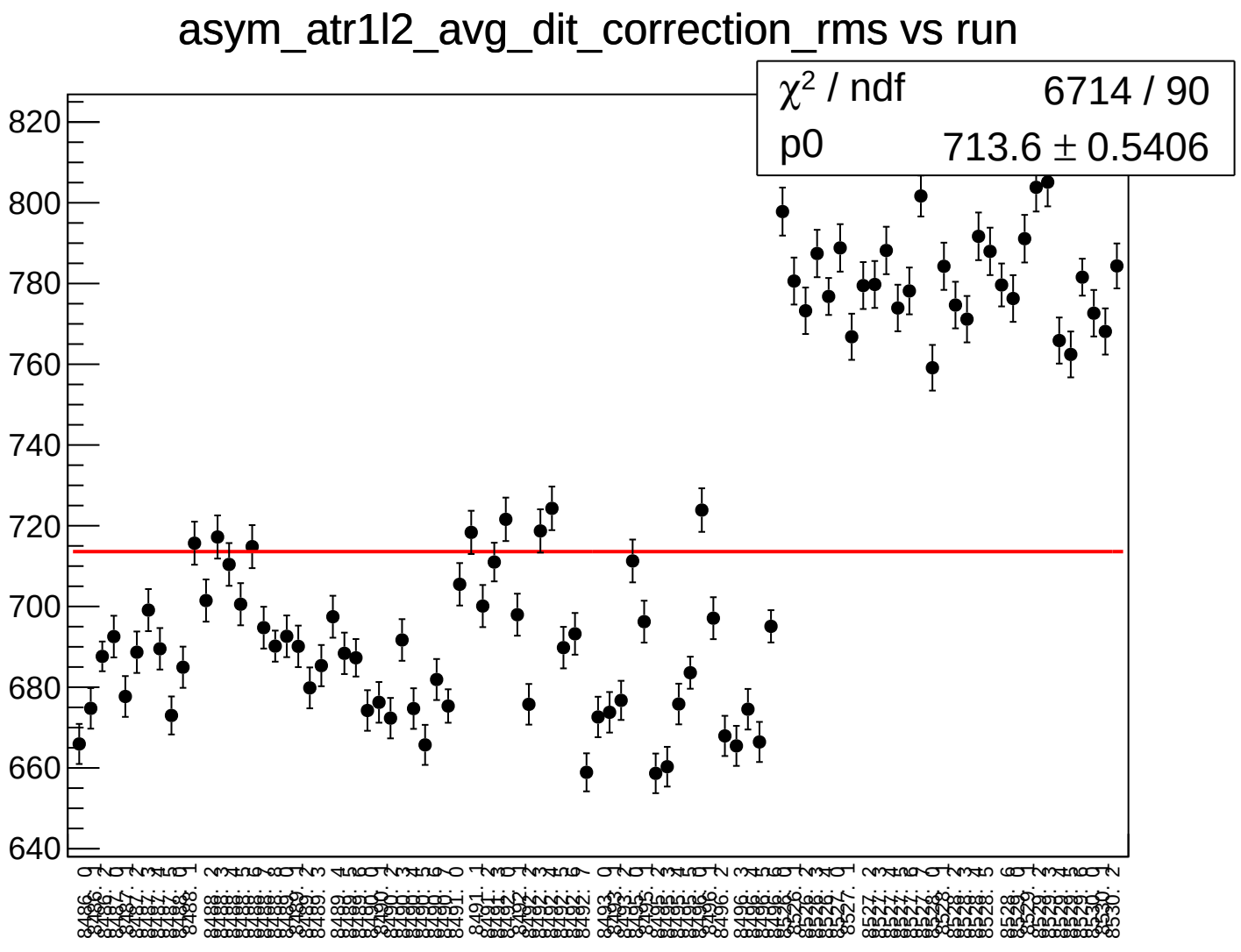

dit_asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 83.18 / 90
p0 −1.864e+04 ± 2.557e+04
pull
Entries 91
Mean −786.1
Std Dev 0

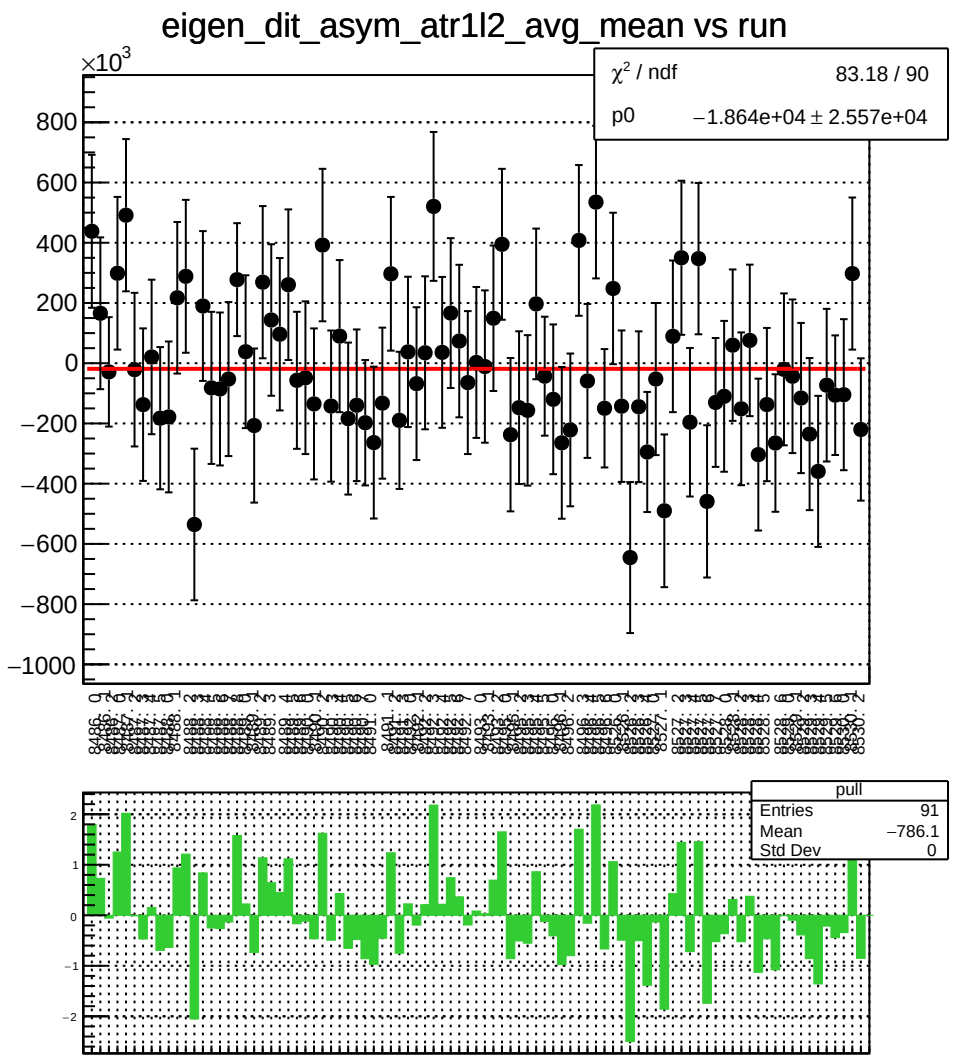

pull1D
Entries 91
Mean 0.008224
Std Dev 0.956

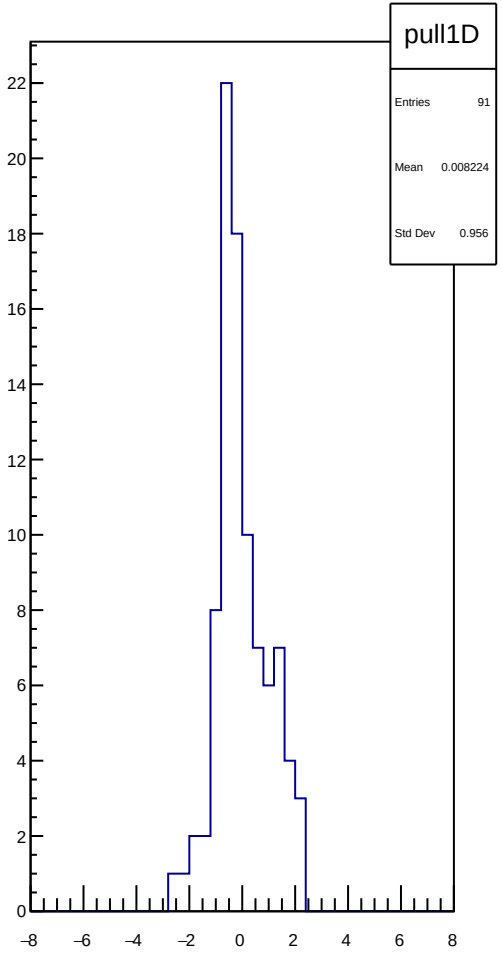

dit_asym_atr1l2_avg_rms vs run
χ² / ndf 105.6 / 90
p0 2.392e+04 ± 18.08
24600
24400
24200
24000
23800
23600
23400
23200

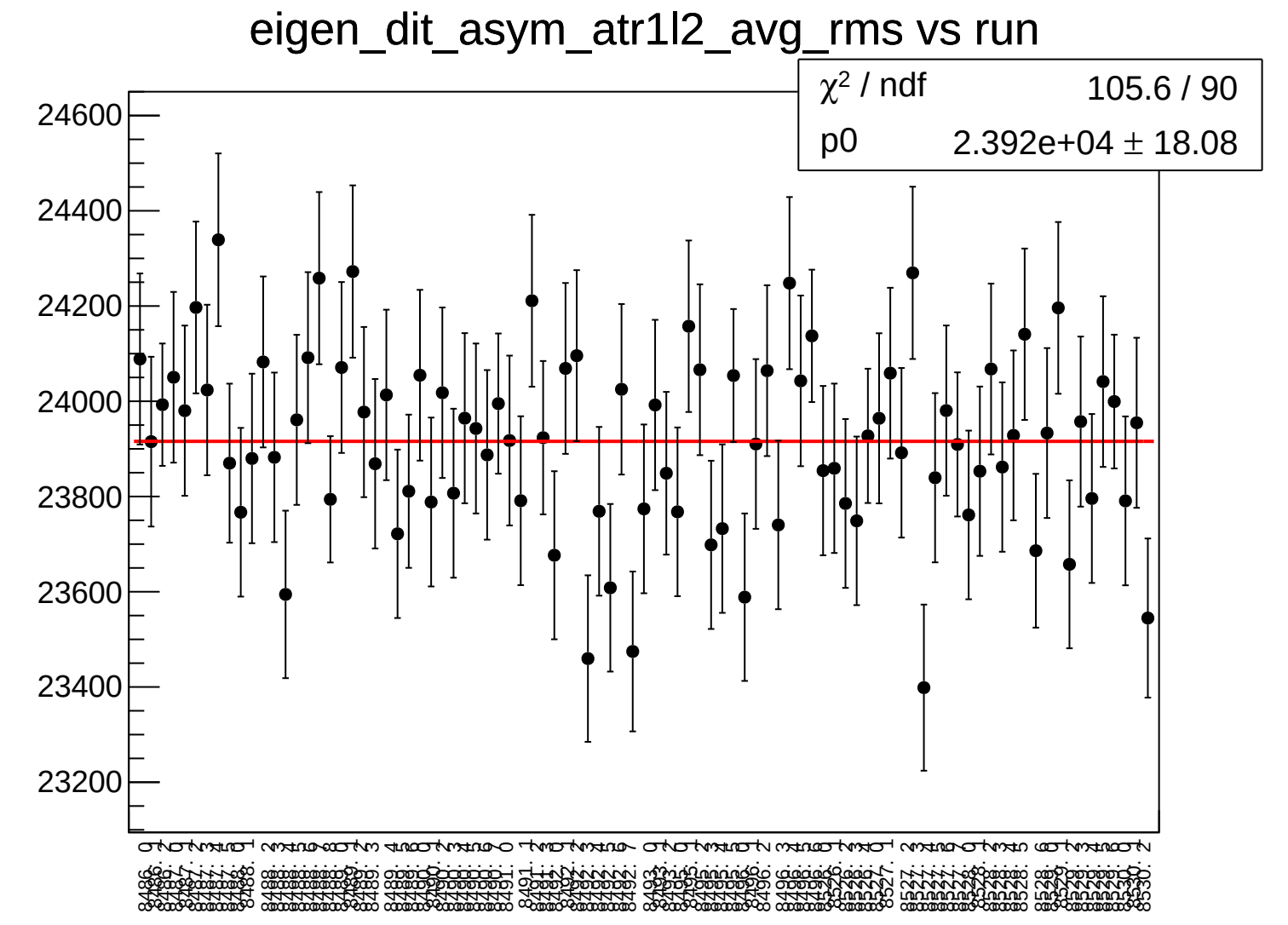

asym_atr1l2_avg_dit_correction_mean vs run
χ² / ndf 90.09 / 90
p0 −1961 ± 764.5
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 173.5
Std Dev 0
2
1
0
−1
−2
−3

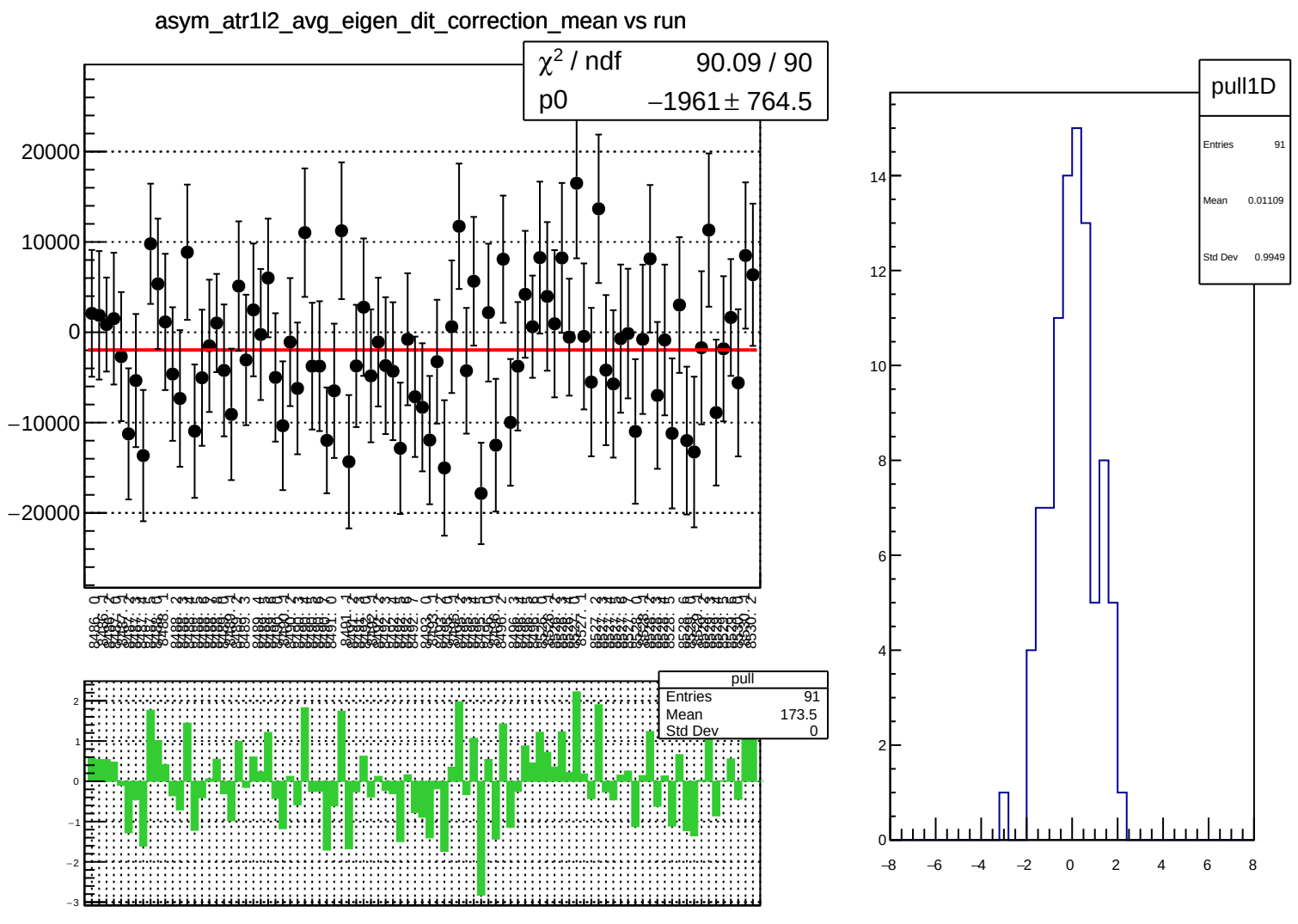

pull1D
Entries 91
Mean 0.01109
Std Dev 0.9949
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

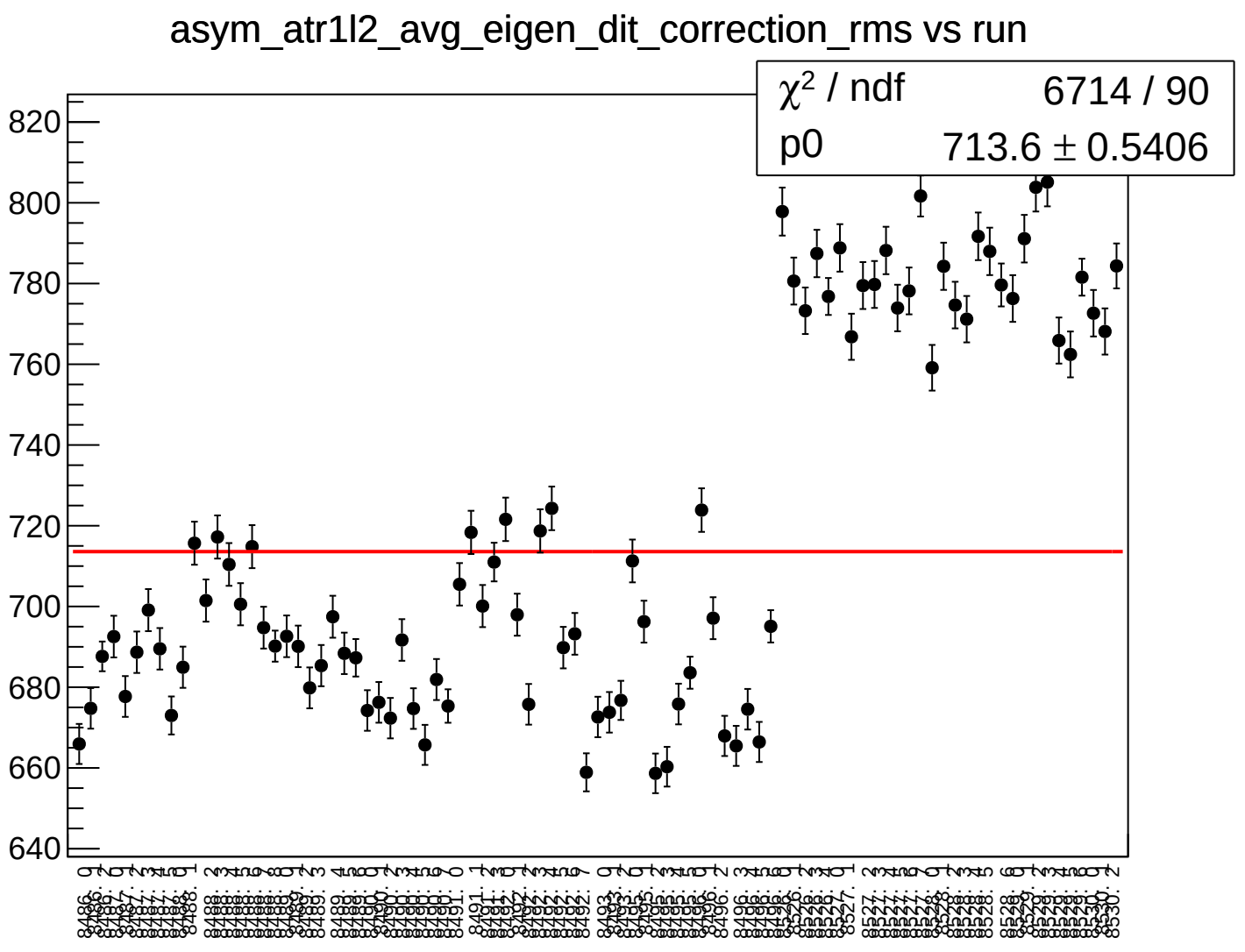

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 6714 / 90
p0 713.6 ± 0.5406
820
800
780
760
740
720
700
680
660
640

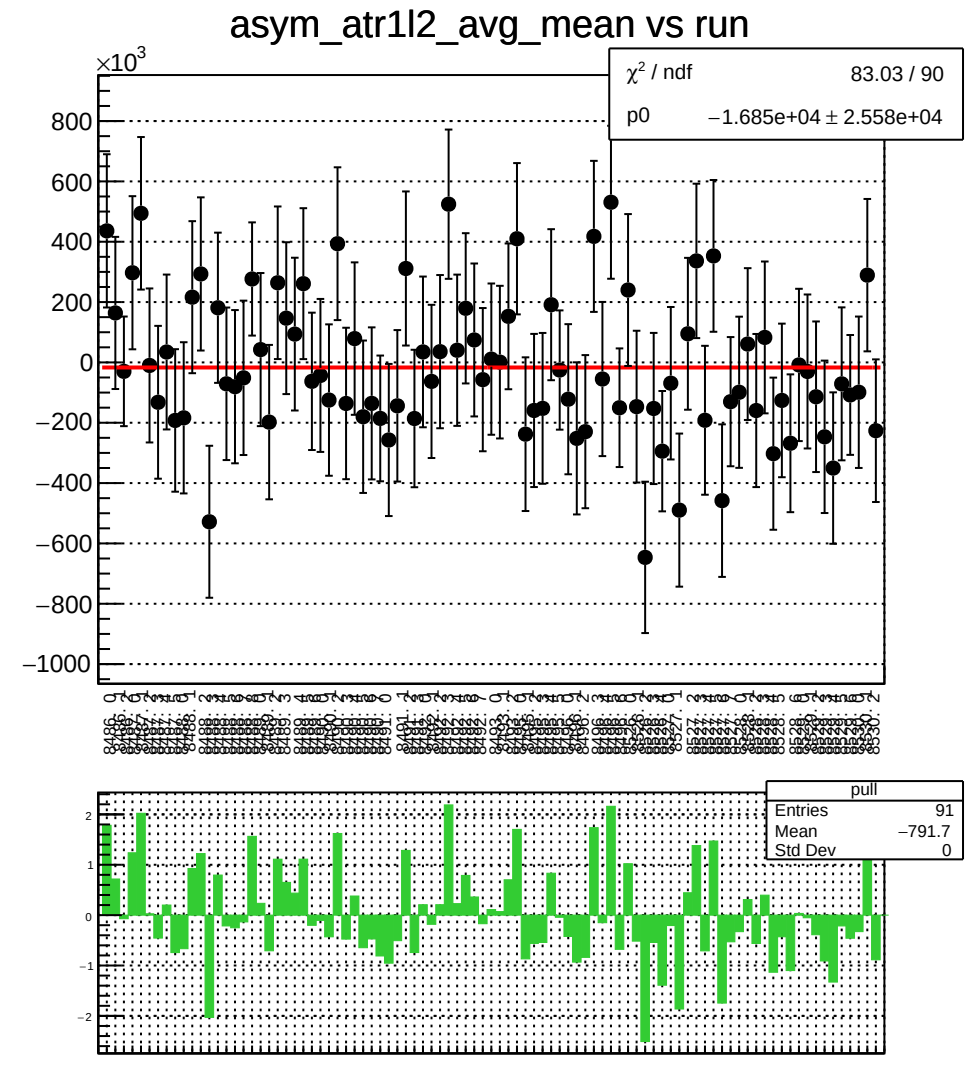

eigen_dit_asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 83.18 / 90
p0 −1.864e+04 ± 2.557e+04
pull
Entries 91
Mean −786.1
Std Dev 0

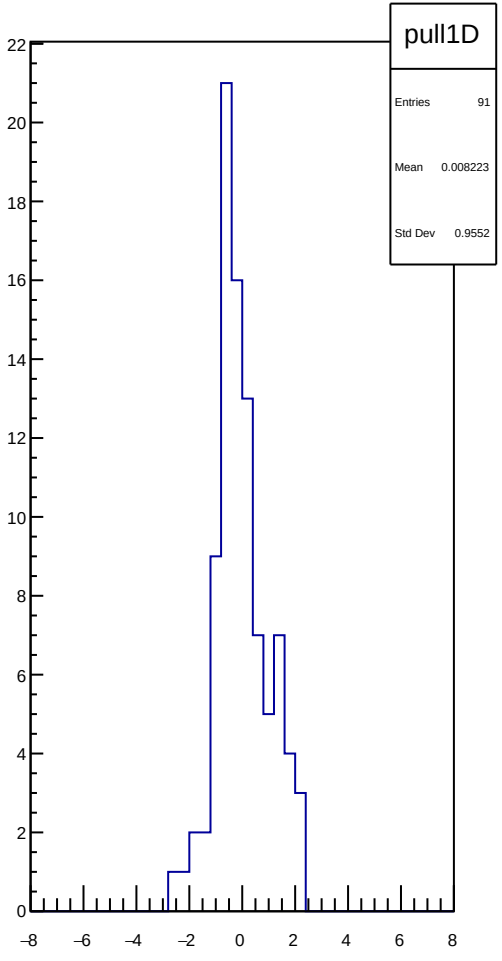

pull1D
Entries 91
Mean 0.008224
Std Dev 0.956

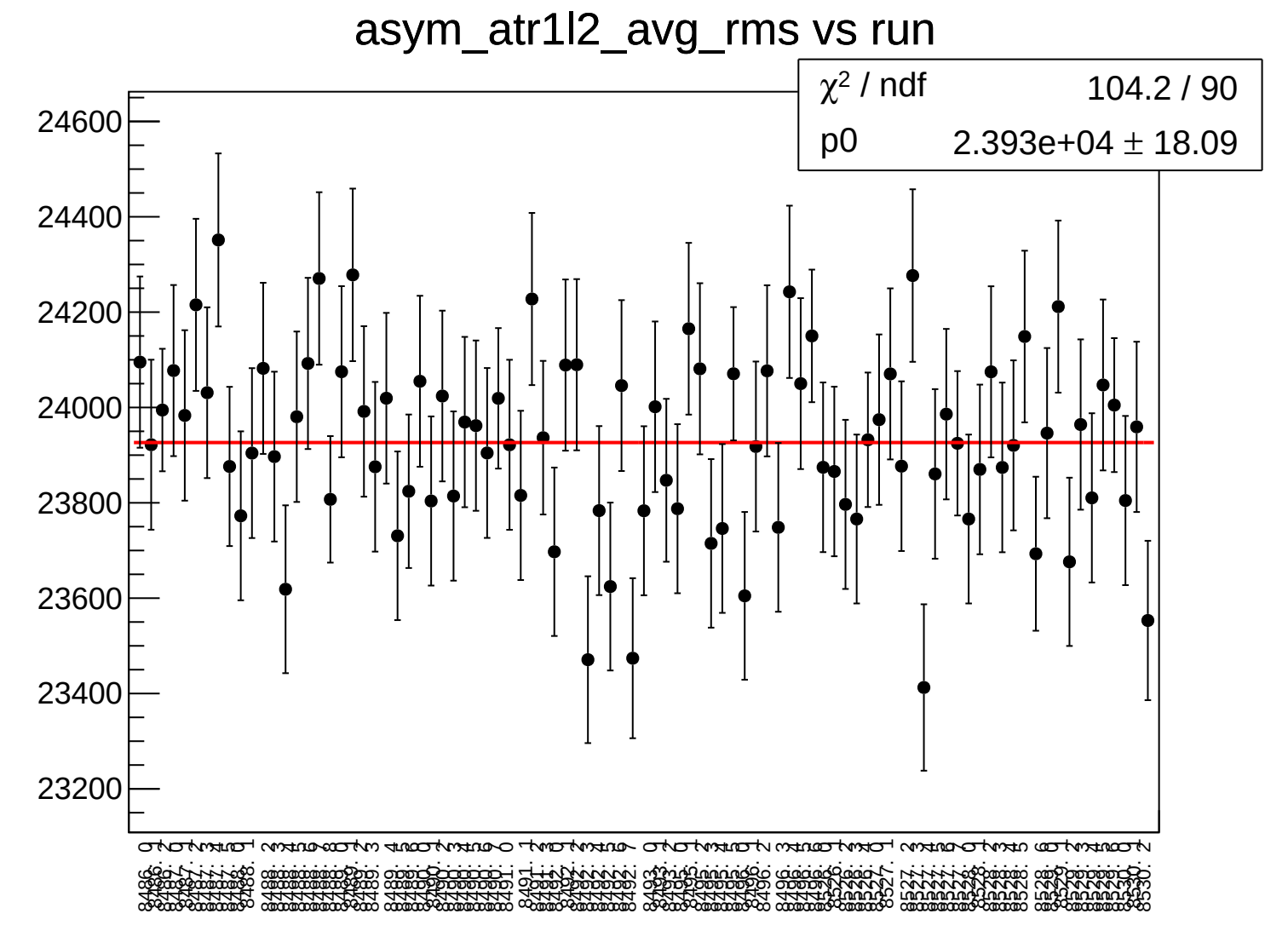

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 105.6 / 90
p0 2.392e+04 ± 18.08
24600
24400
24200
24000
23800
23600
23400
23200

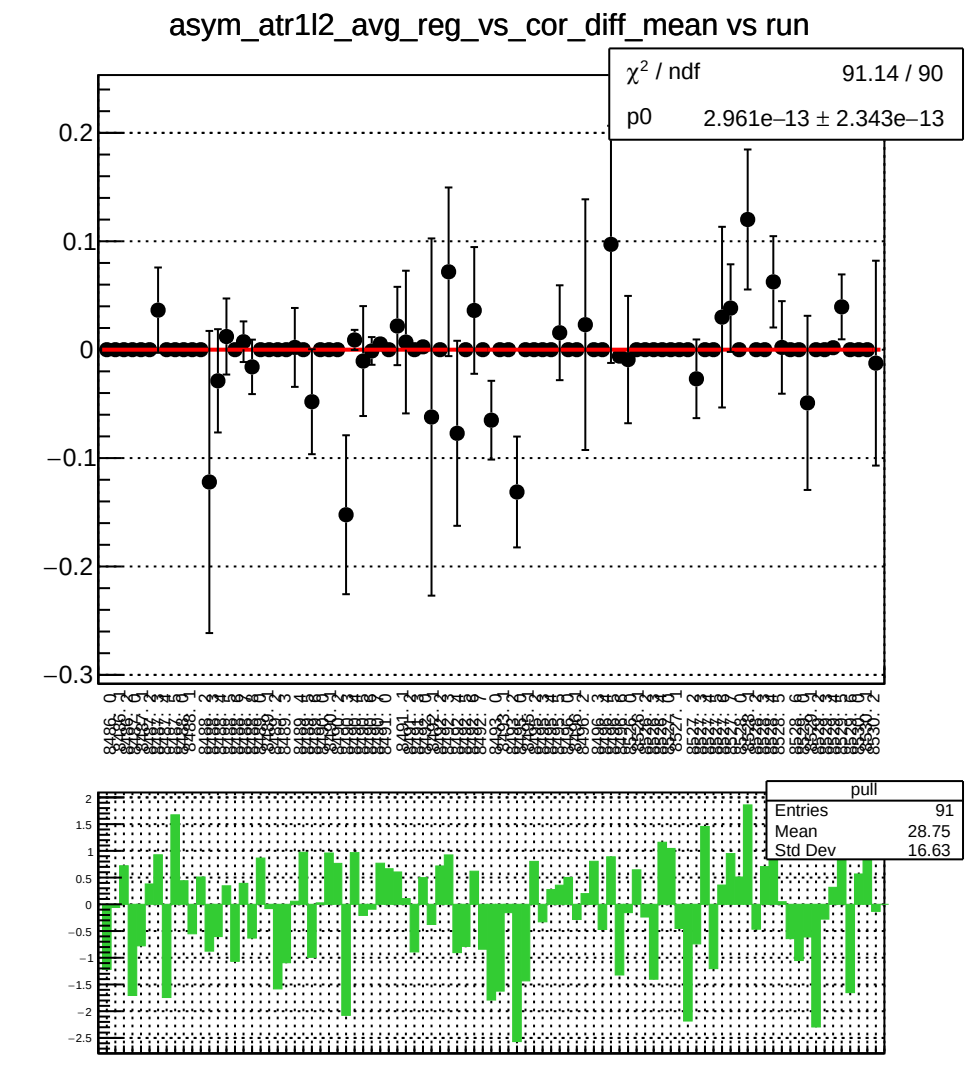

asym_atr1l2_avg_eigen_dit_correction_mean vs run
χ² / ndf 90.09 / 90
p0 −1961 ± 764.5
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 173.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean 0.01109
Std Dev 0.9949
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

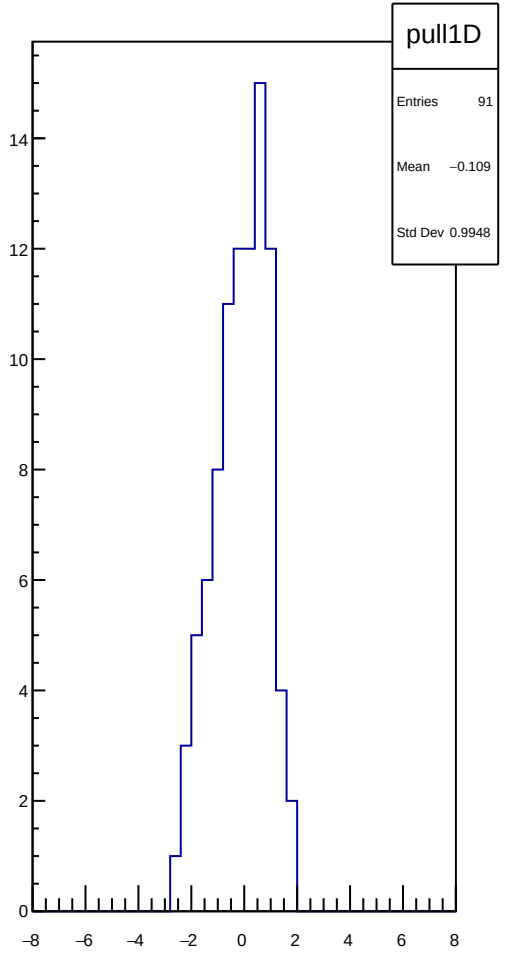

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 6714 / 90
p0 713.6 ± 0.5406
820
800
780
760
740
720
700
680
660
640

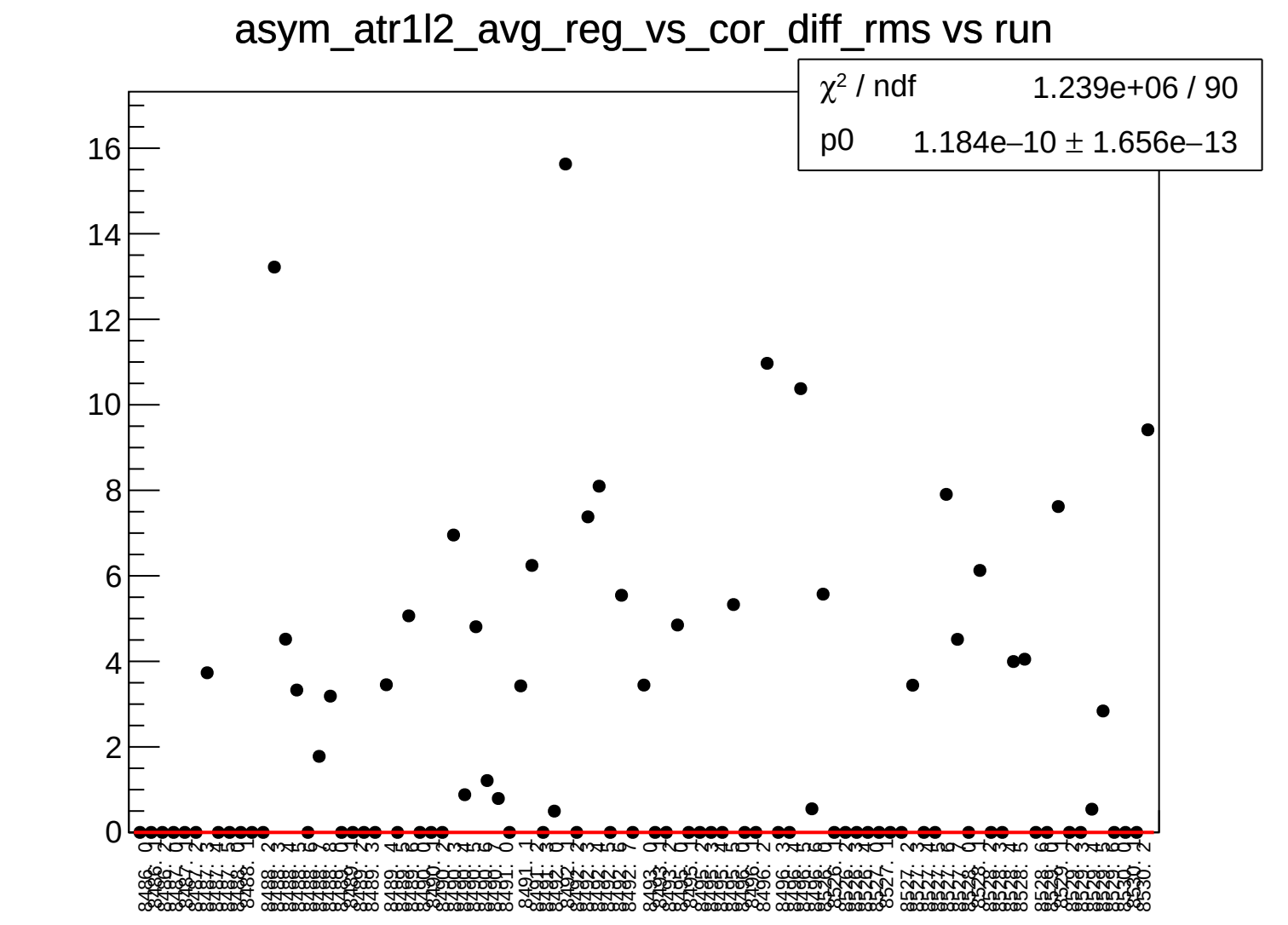

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 83.03 / 90
p0 −1.685e+04 ± 2.558e+04
pull
Entries 91
Mean −791.7
Std Dev 0

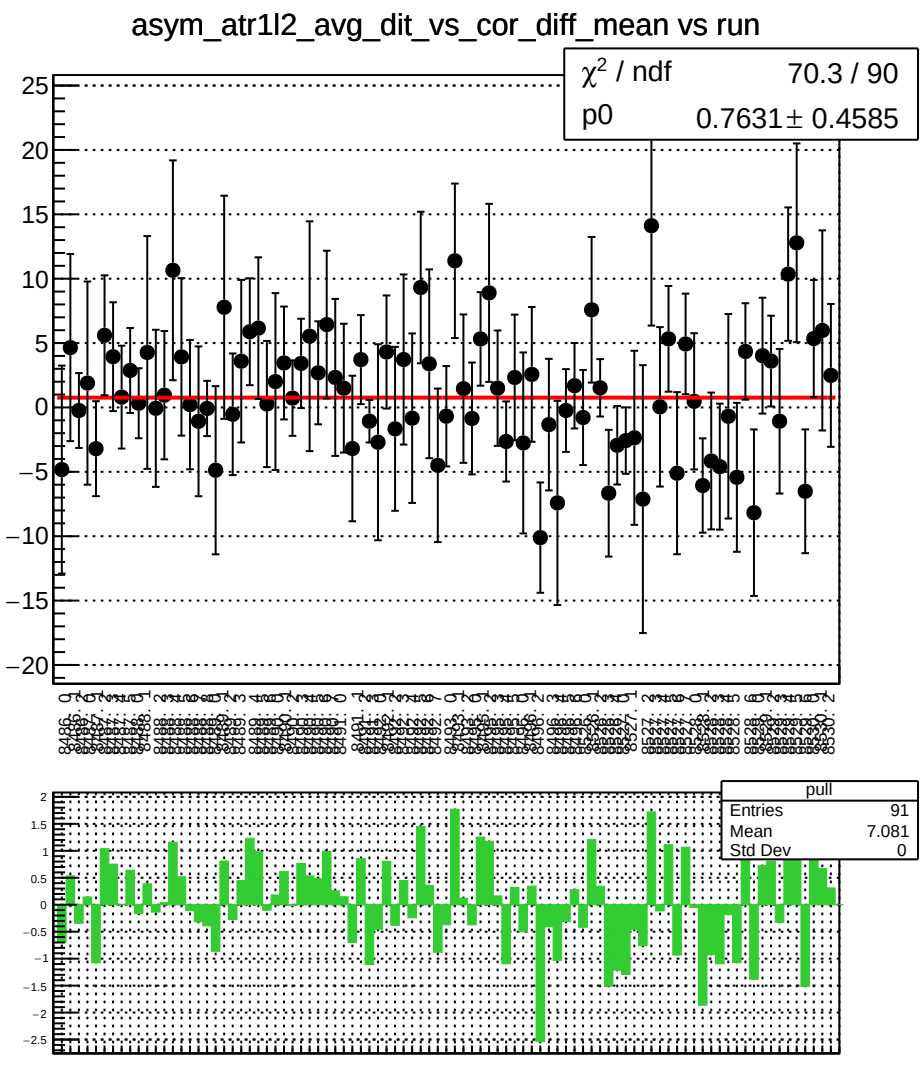

pull1D
Entries 91
Mean 0.008223
Std Dev 0.9552

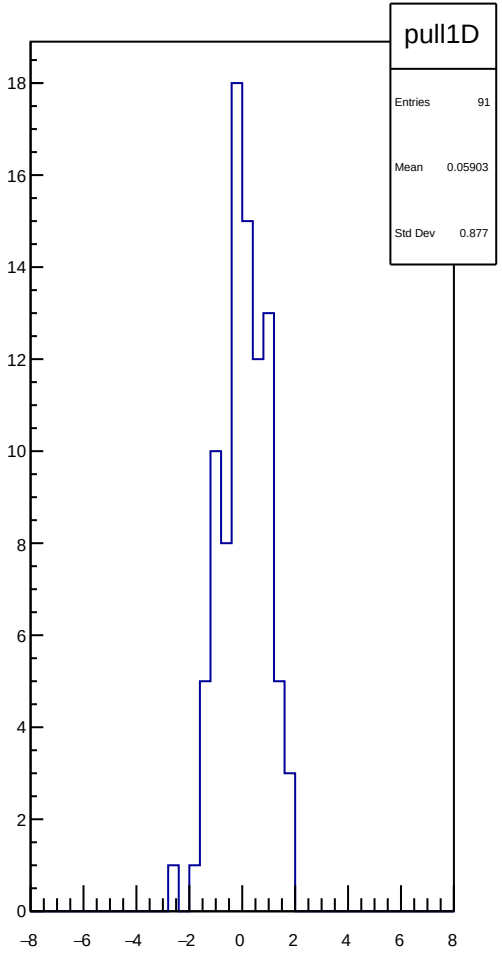

asym_atr1l2_avg_rms vs run
χ² / ndf 104.2 / 90
p0 2.393e+04 ± 18.09
24600
24400
24200
24000
23800
23600
23400
23200

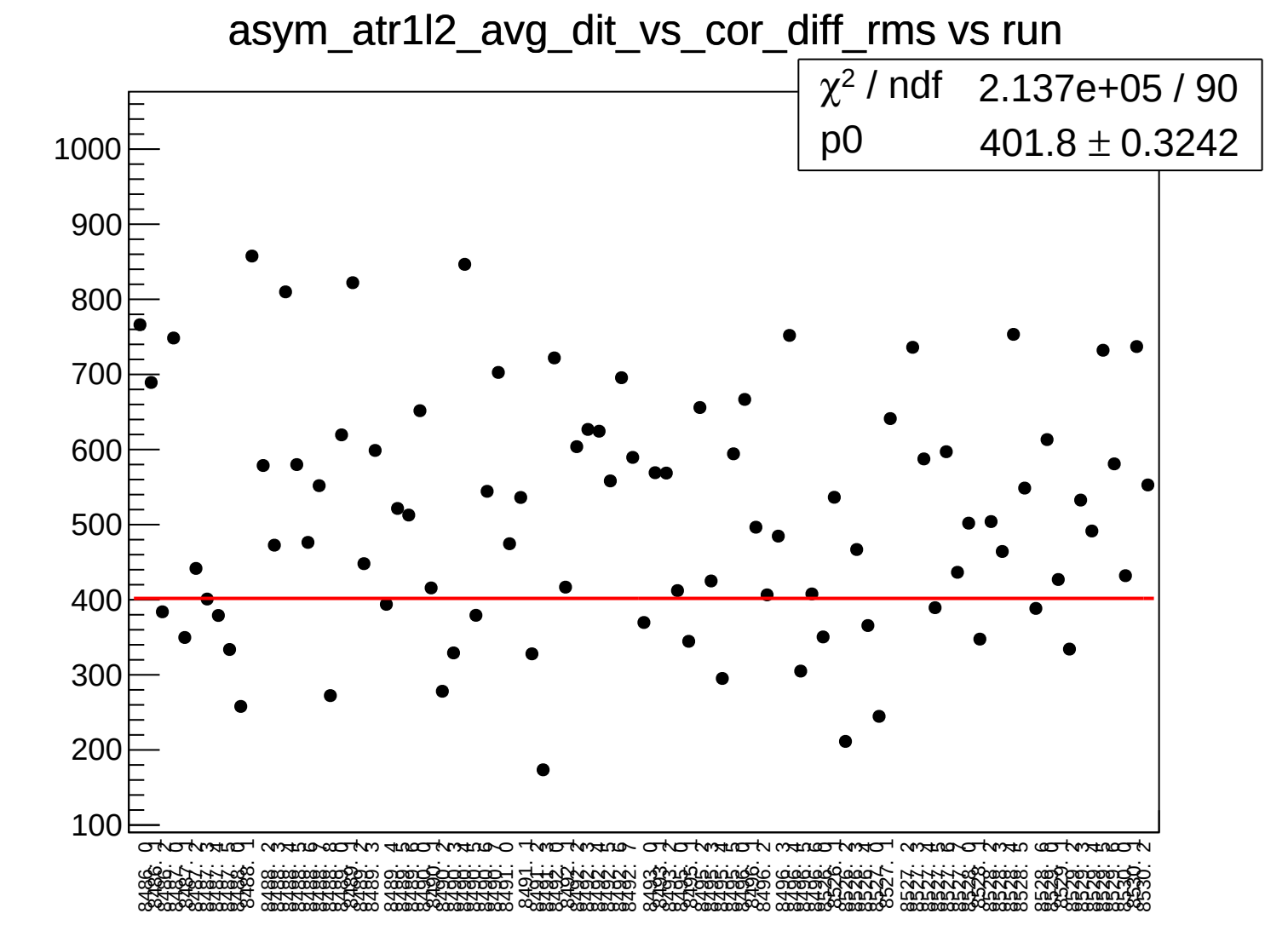

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 91.14 / 90
p0 2.961e−13 ± 2.343e−13
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 91
Mean 28.75
Std Dev 16.63
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

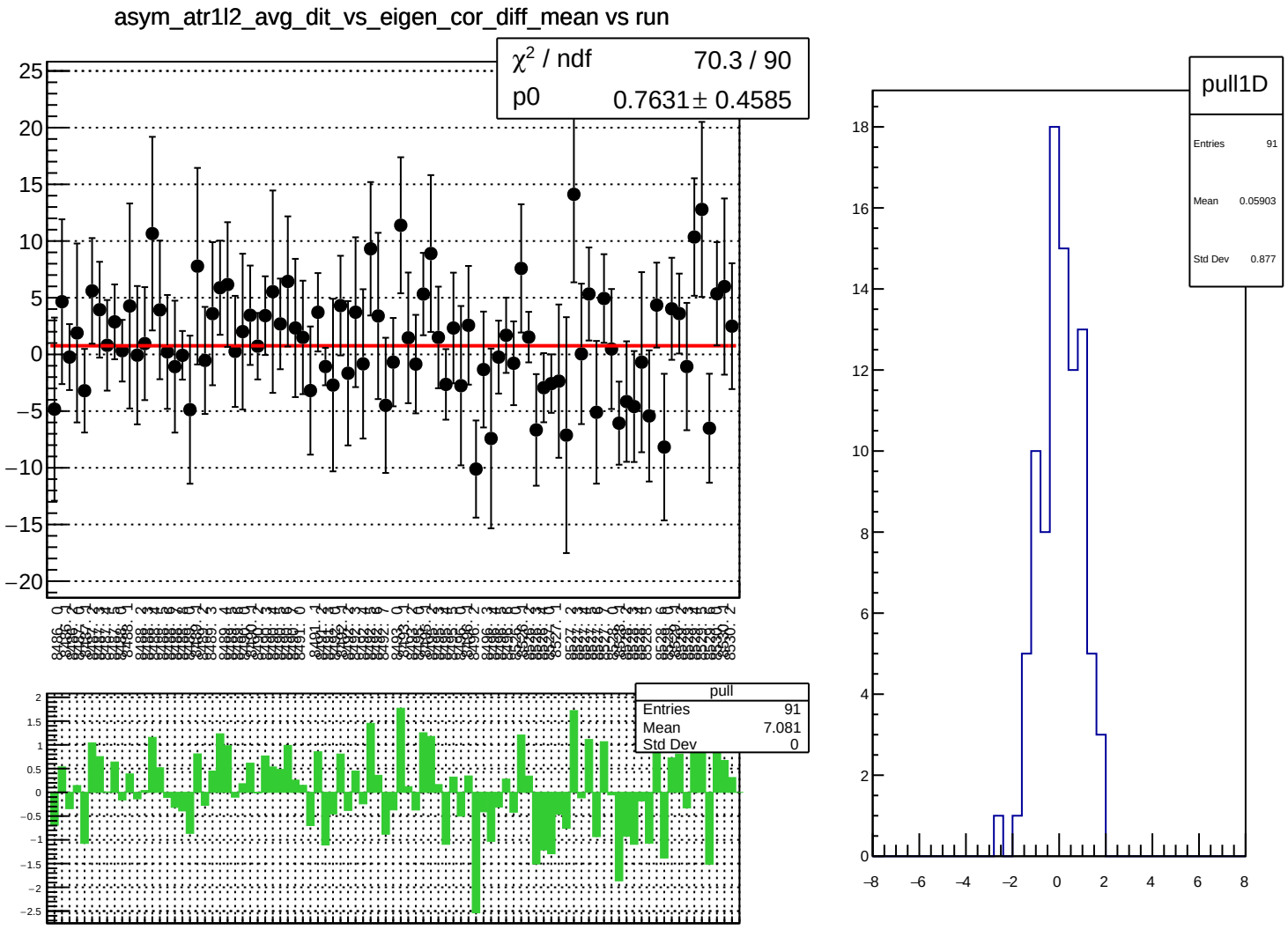

pull1D
Entries 91
Mean −0.109
Std Dev 0.9948
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

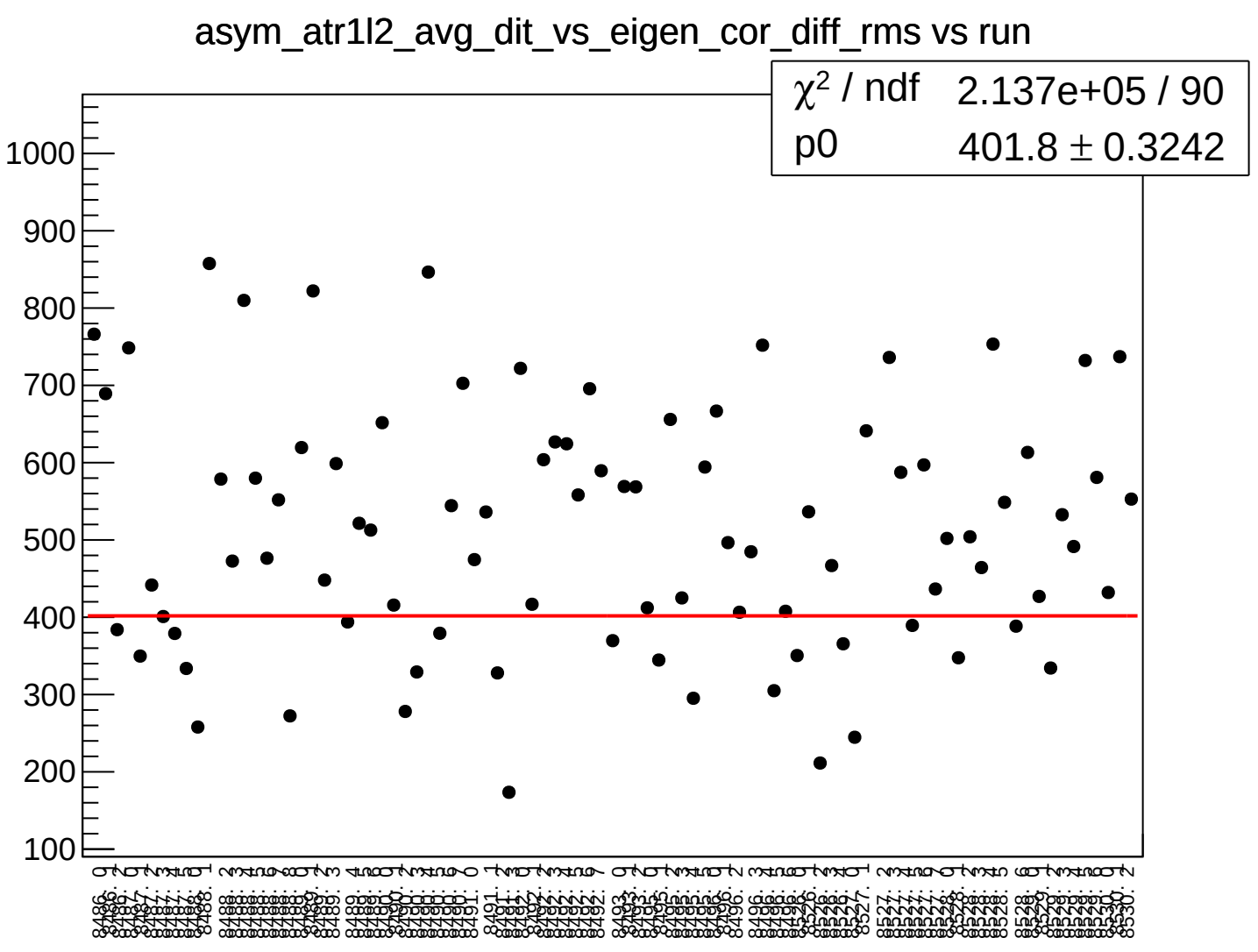

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.239e+06 / 90
p0 1.184e−10 ± 1.656e−13
0
2
4
6
8
10
12
14
16

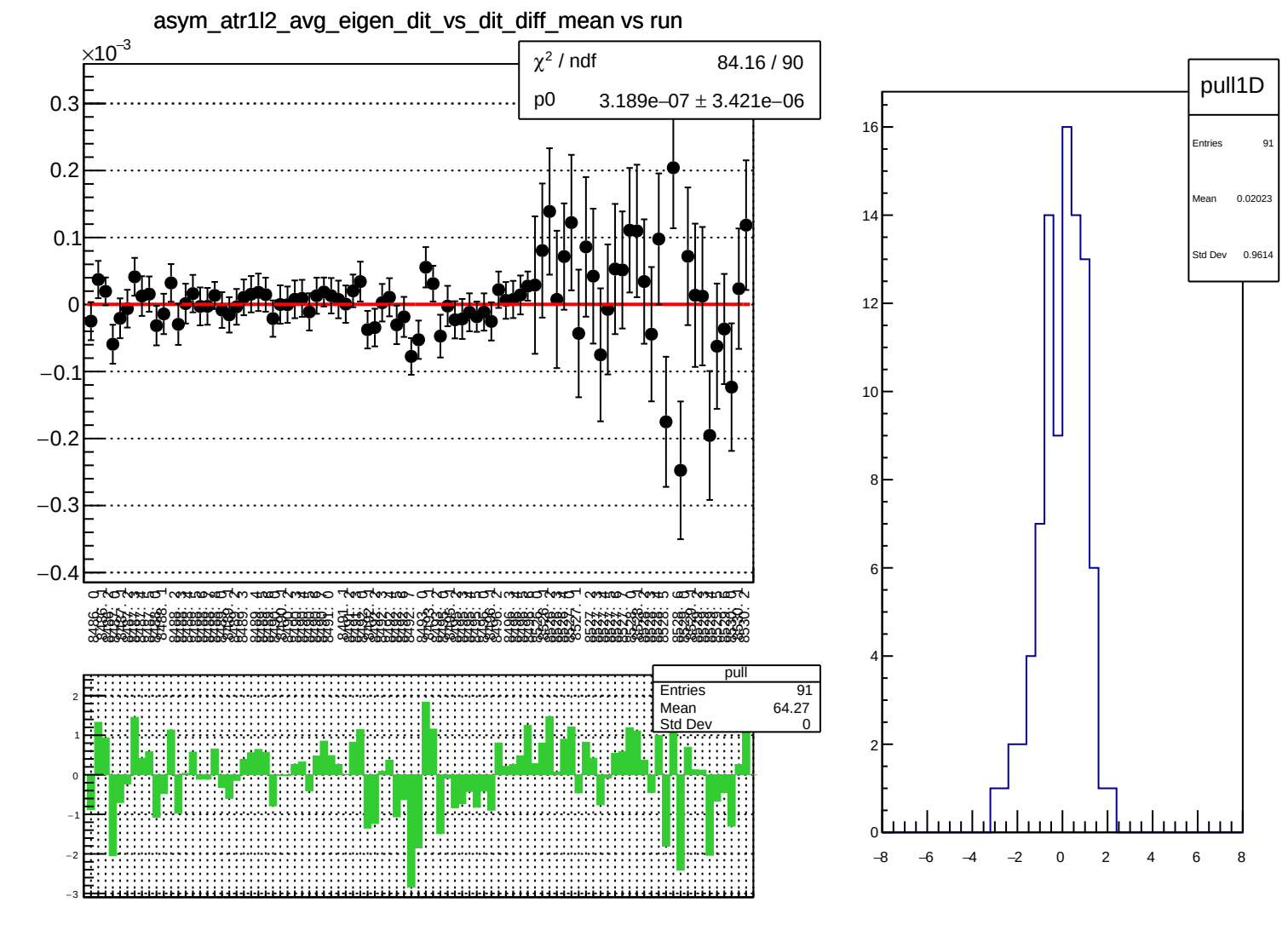

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 70.3 / 90
p0 0.7631± 0.4585
pull
Entries 91
Mean 7.081
Std Dev 0

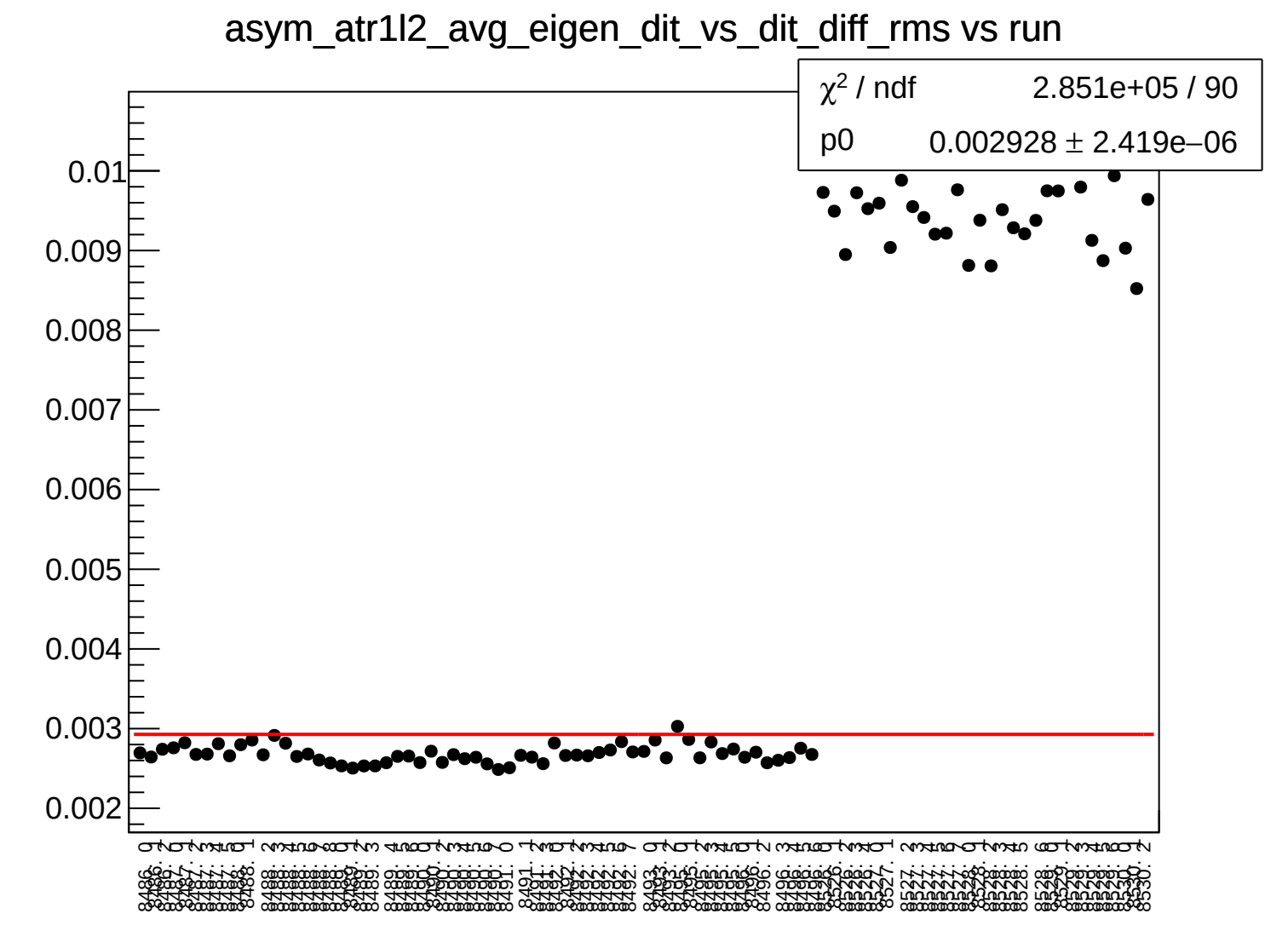

pull1D
Entries 91
Mean 0.05903
Std Dev 0.877

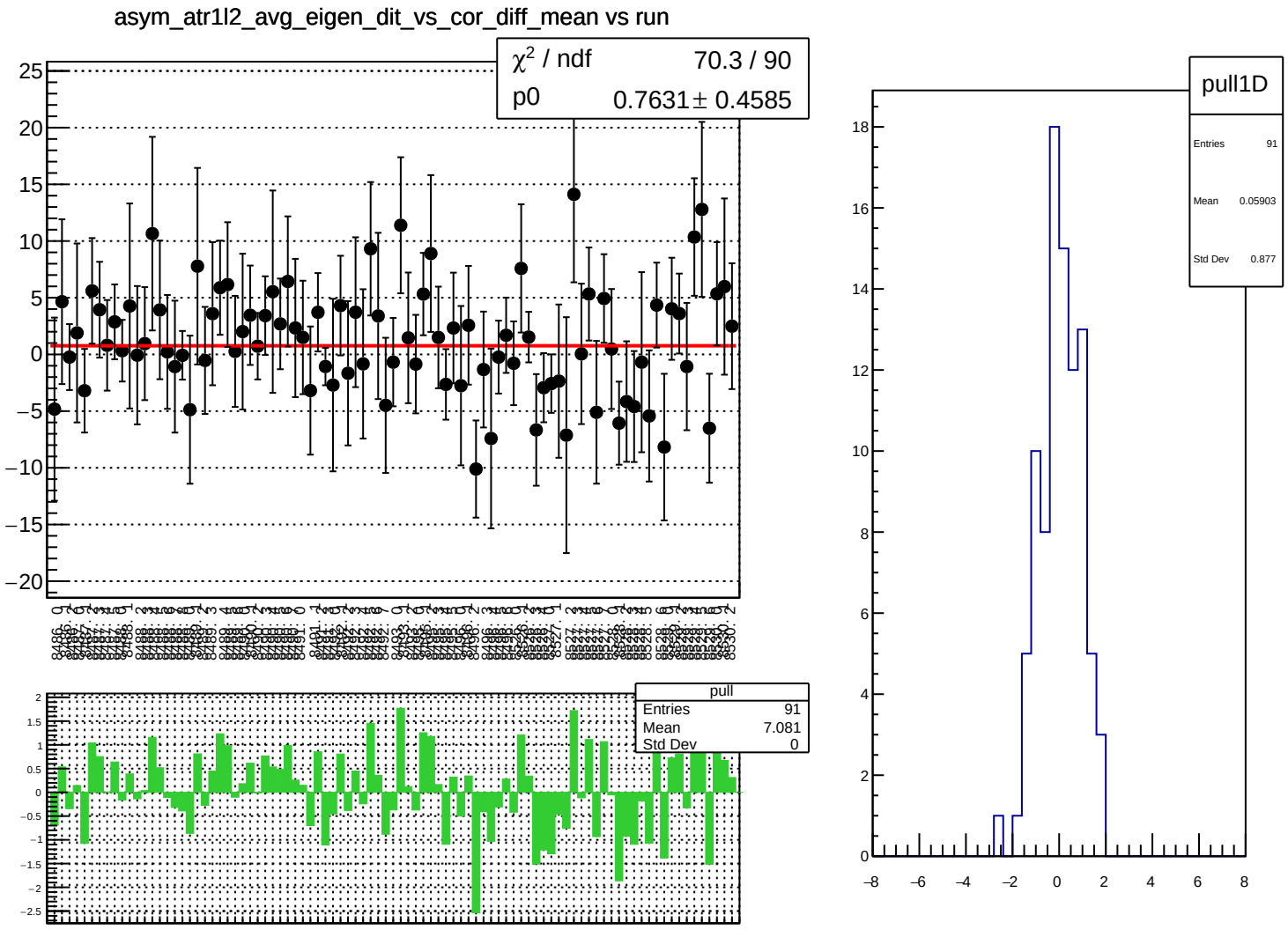

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.137e+05 / 90
p0 401.8 ± 0.3242
1000
900
800
700
600
500
400
300
200
100

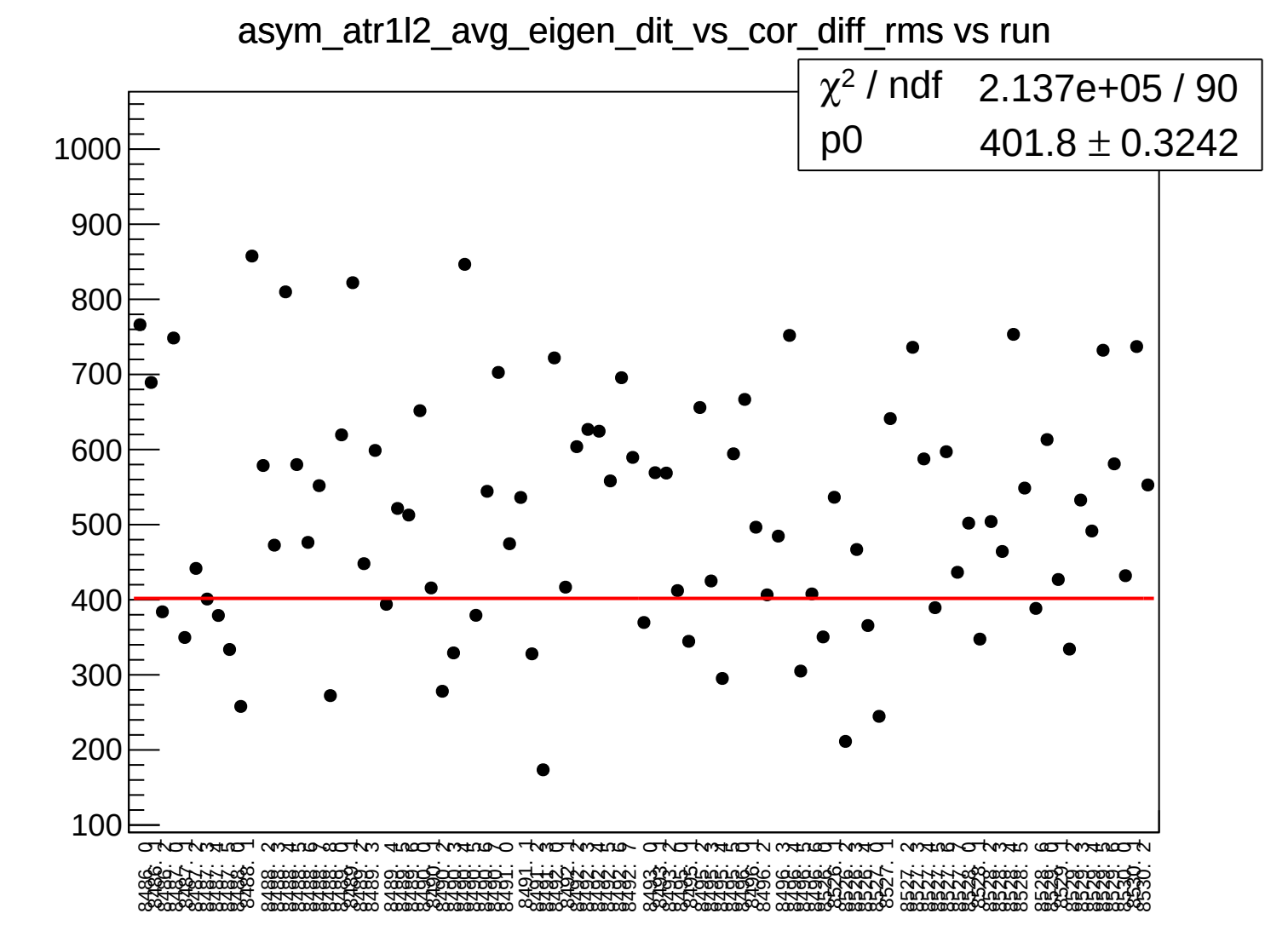

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.3 / 90
p0 0.7631 ± 0.4585
pull
Entries 91
Mean 7.081
Std Dev 0
pull1D
Entries 91
Mean 0.05903
Std Dev 0.877

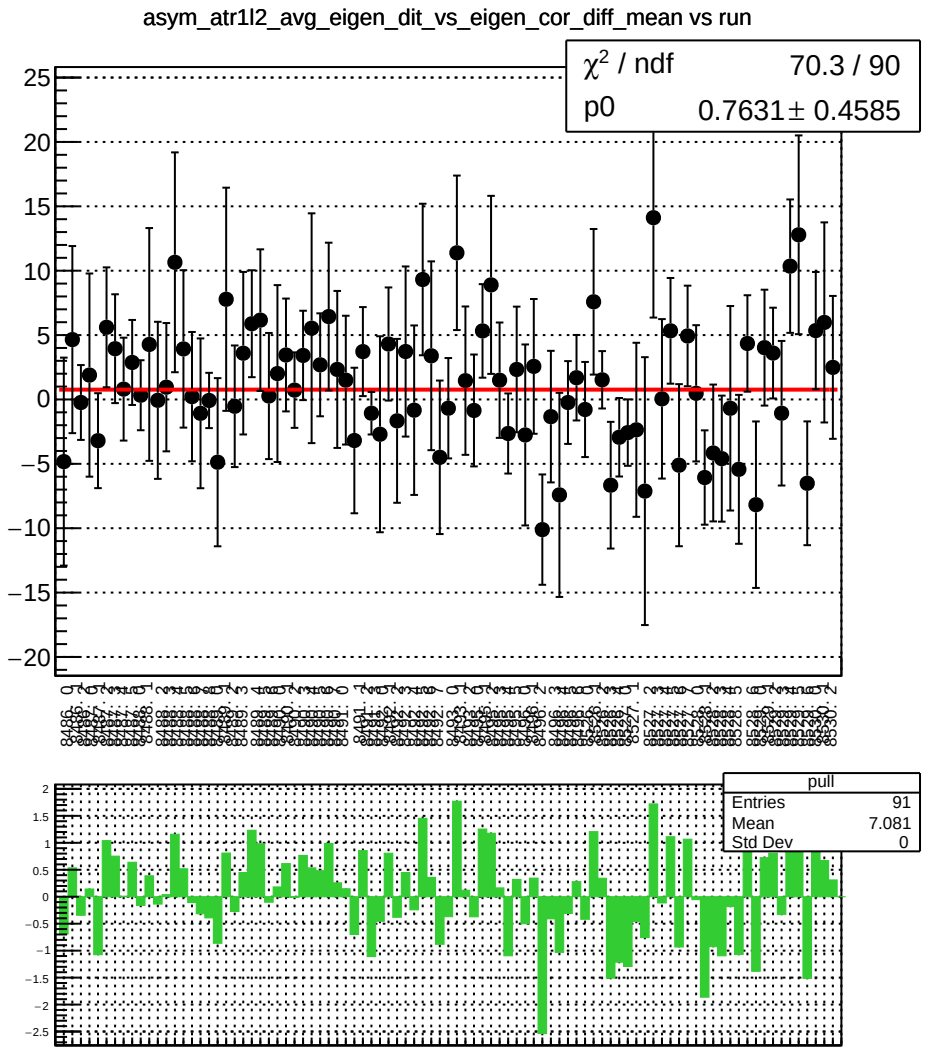

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.137e+05 / 90
p0 401.8 ± 0.3242
1000
900
800
700
600
500
400
300
200
100

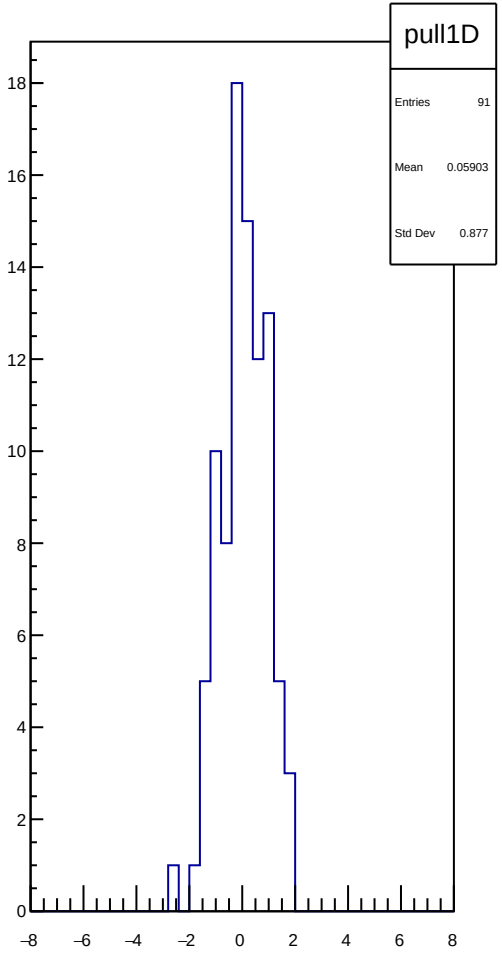

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.16 / 90
p0 3.189e−07 ± 3.421e−06
pull
Entries 91
Mean 64.27
Std Dev 0
pull1D
Entries 91
Mean 0.02023
Std Dev 0.9614

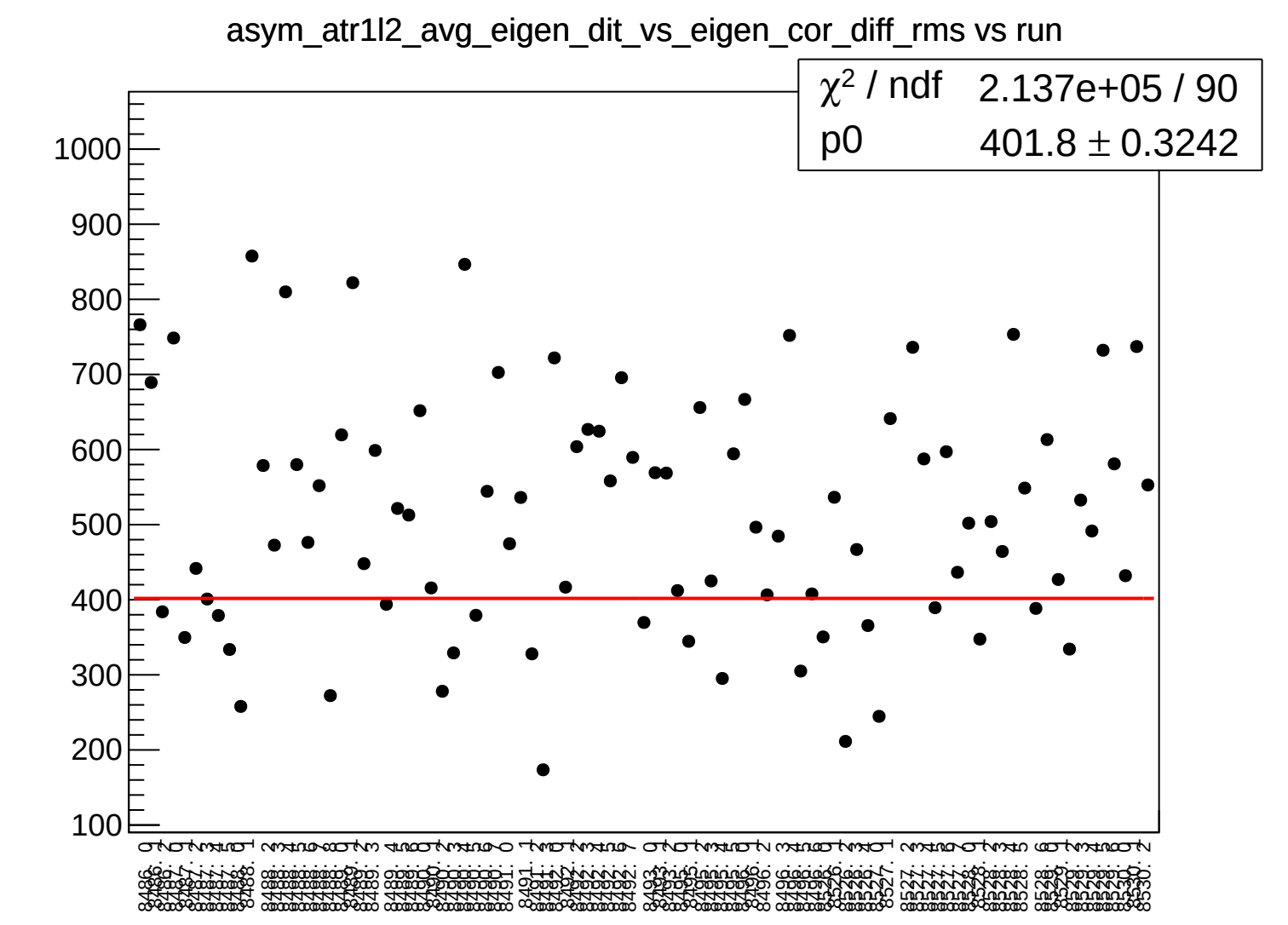

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.851e+05 / 90
p0 0.002928 ± 2.419e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

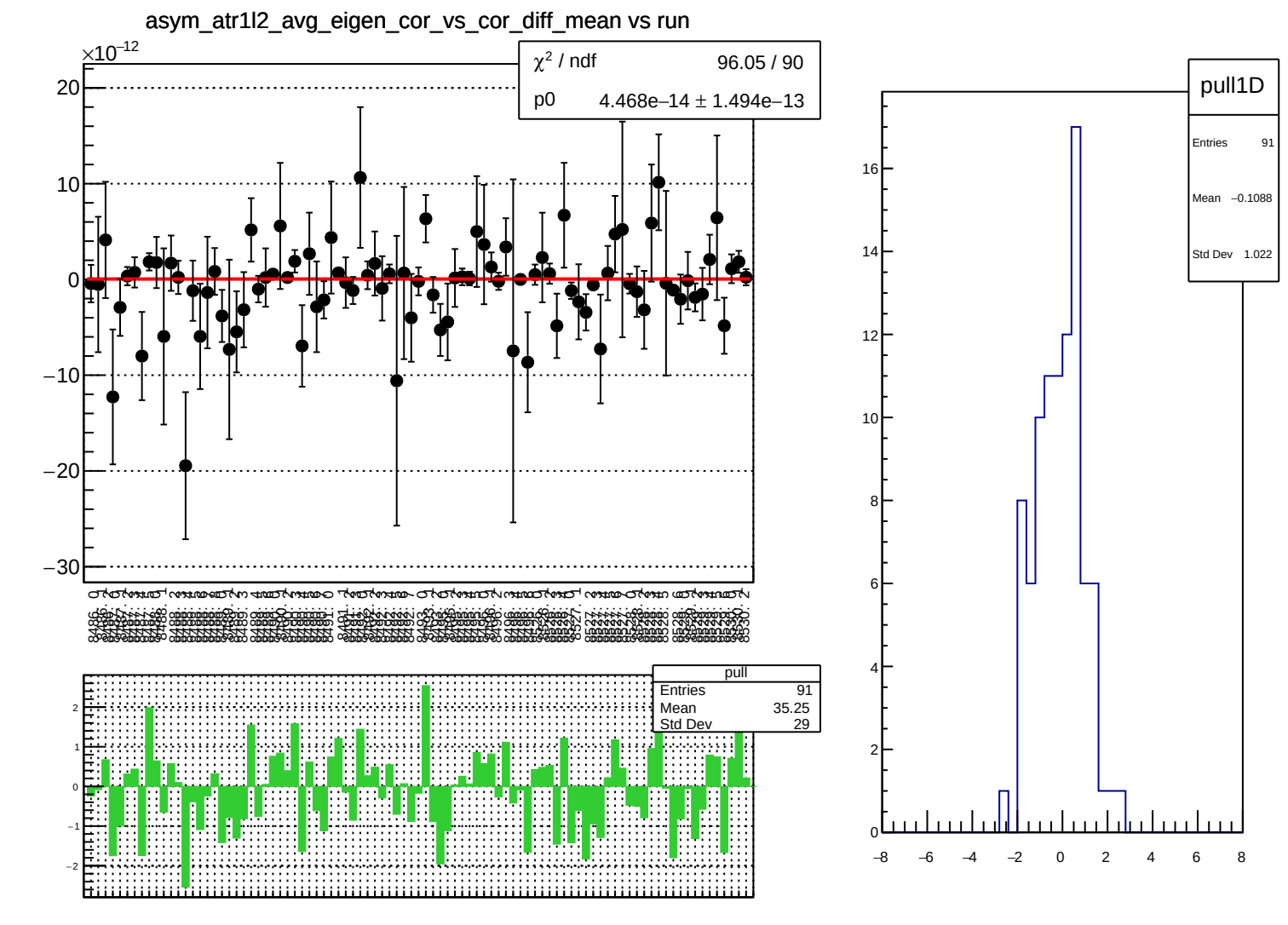

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 70.3 / 90
p0 0.7631 ± 0.4585
pull
Entries 91
Mean 7.081
Std Dev 0
pull1D
Entries 91
Mean 0.05903
Std Dev 0.877

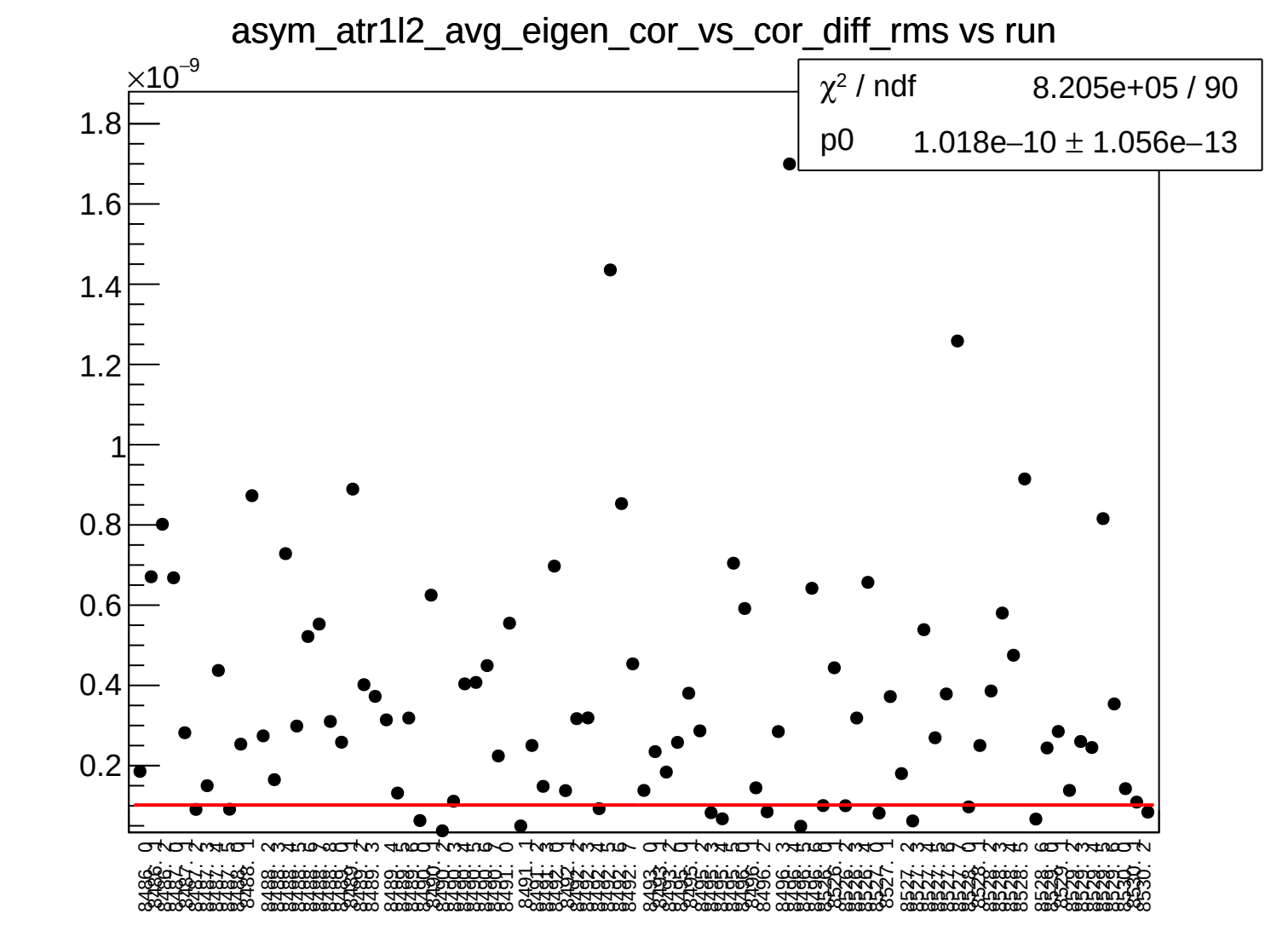

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.137e+05 / 90
p0 401.8 ± 0.3242
1000
900
800
700
600
500
400
300
200
100

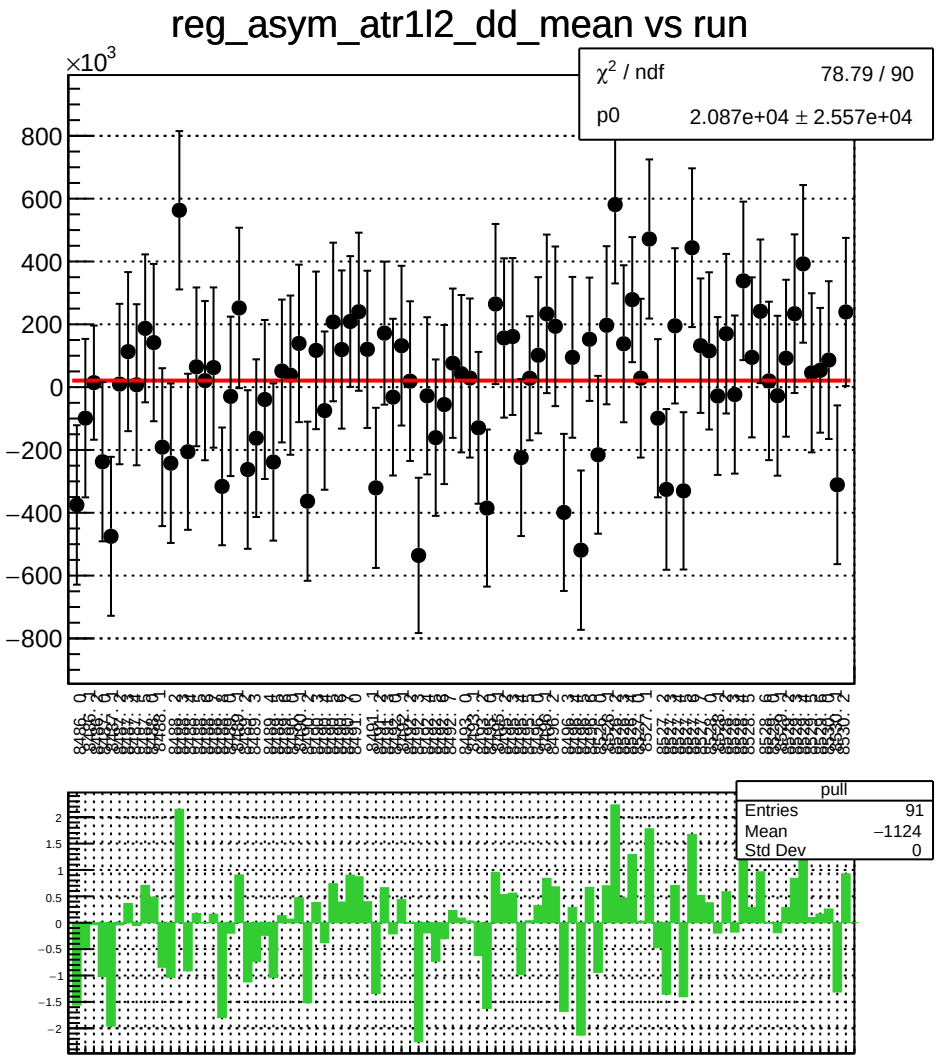

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.3 / 90
p0 0.7631 ± 0.4585
pull
Entries 91
Mean 7.081
Std Dev 0

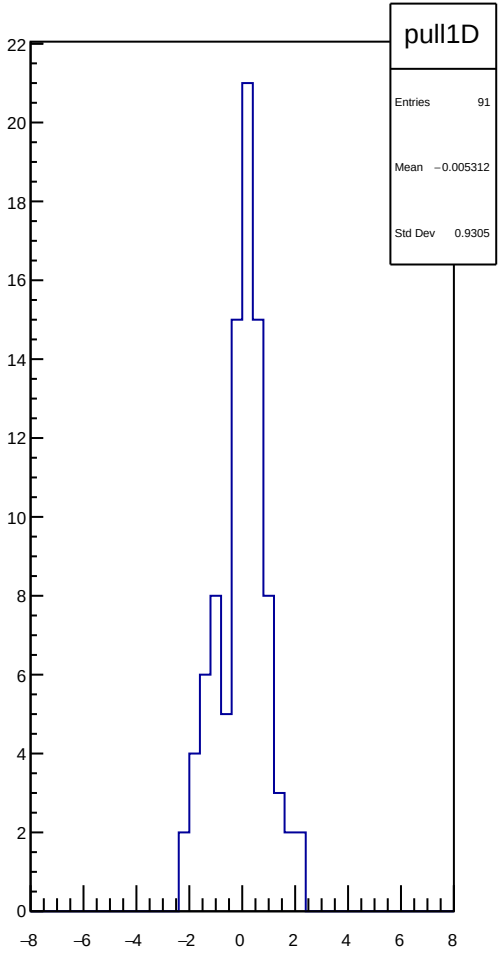

pull1D
Entries 91
Mean 0.05903
Std Dev 0.877

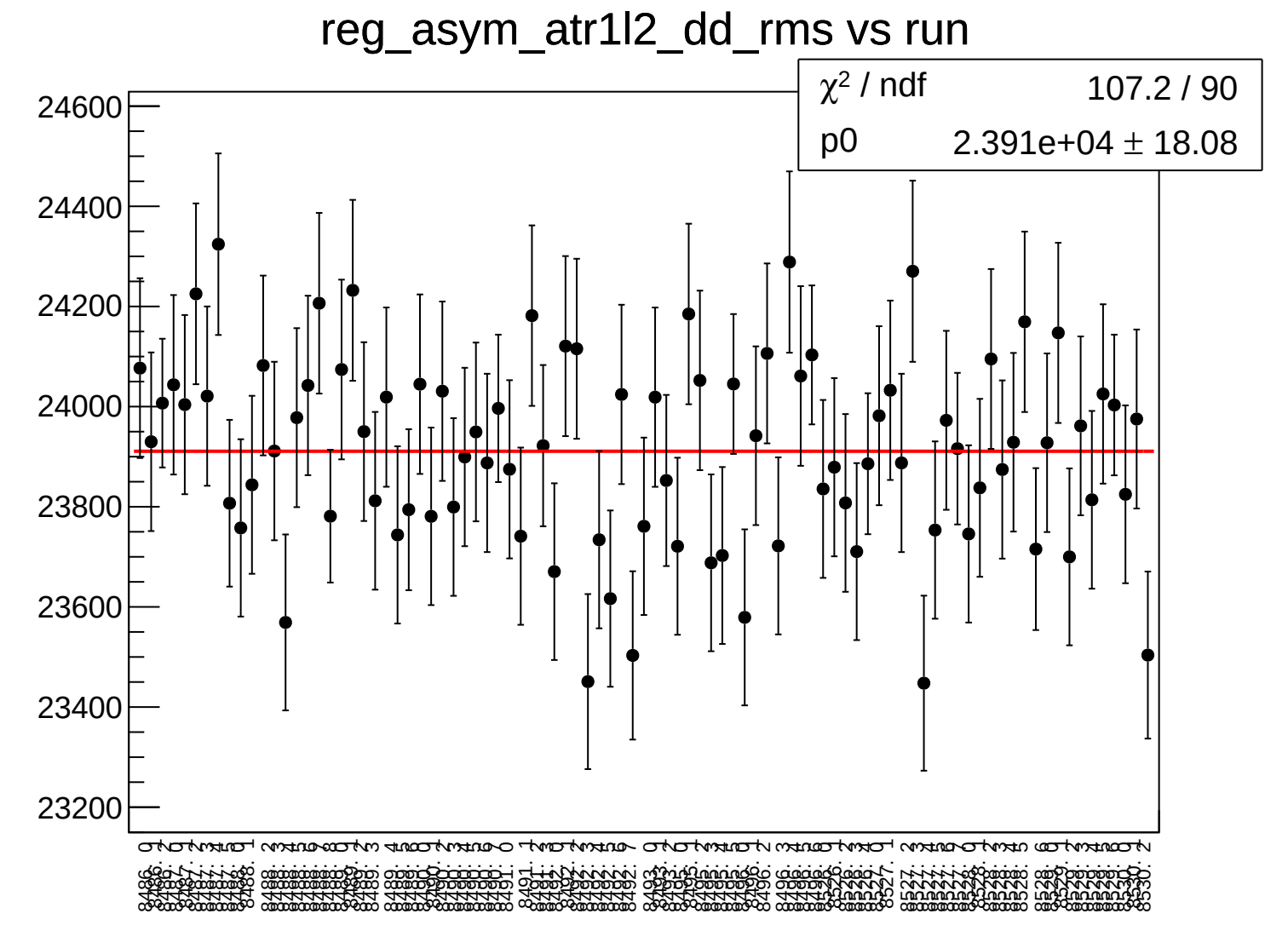

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.137e+05 / 90
p0 401.8 ± 0.3242
1000
900
800
700
600
500
400
300
200
100

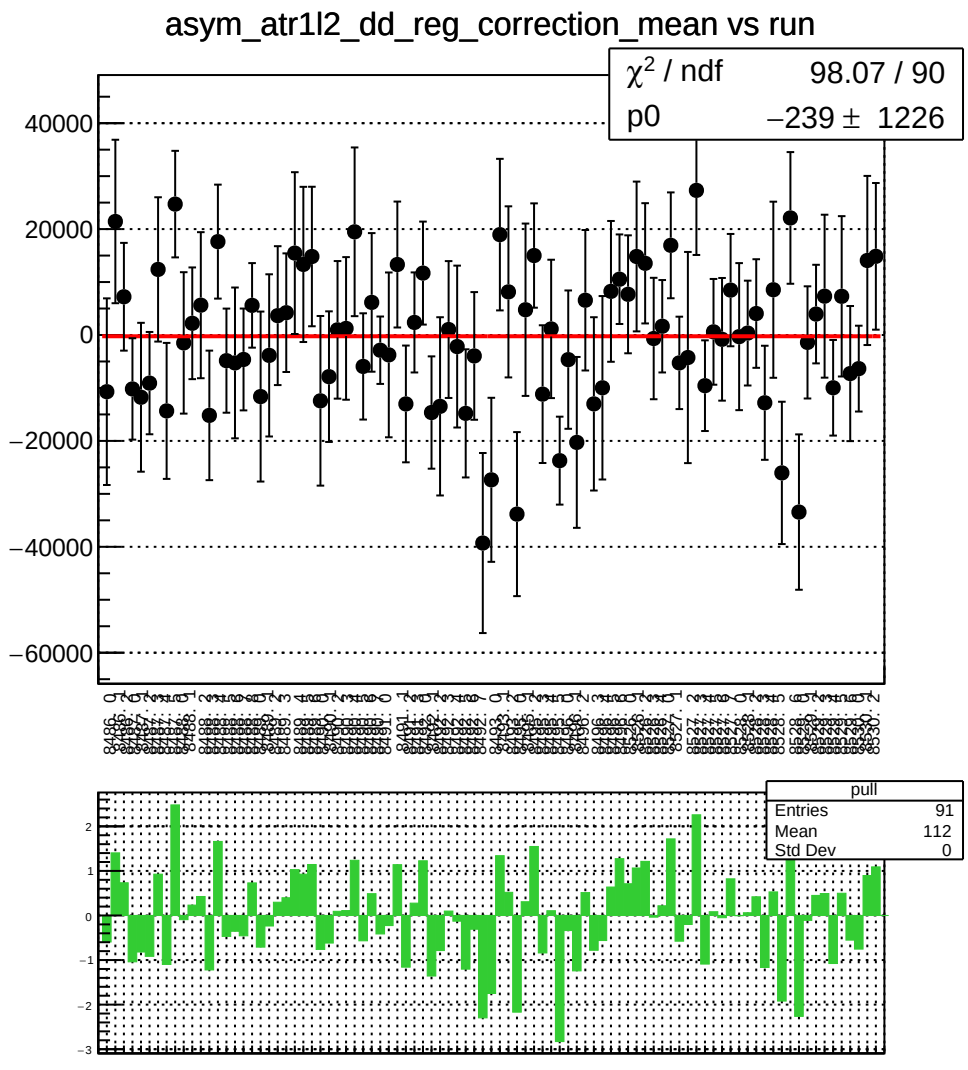

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 96.05 / 90
p0 4.468e−14 ± 1.494e−13
pull
Entries 91
Mean 35.25
Std Dev 29
pull1D
Entries 91
Mean −0.1088
Std Dev 1.022

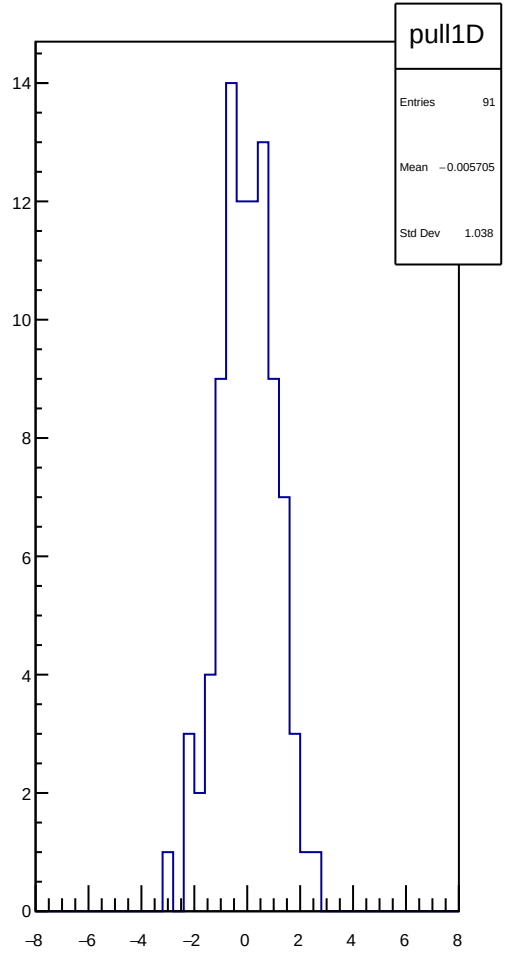

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.205e+05 / 90
p0 1.018e−10 ± 1.056e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

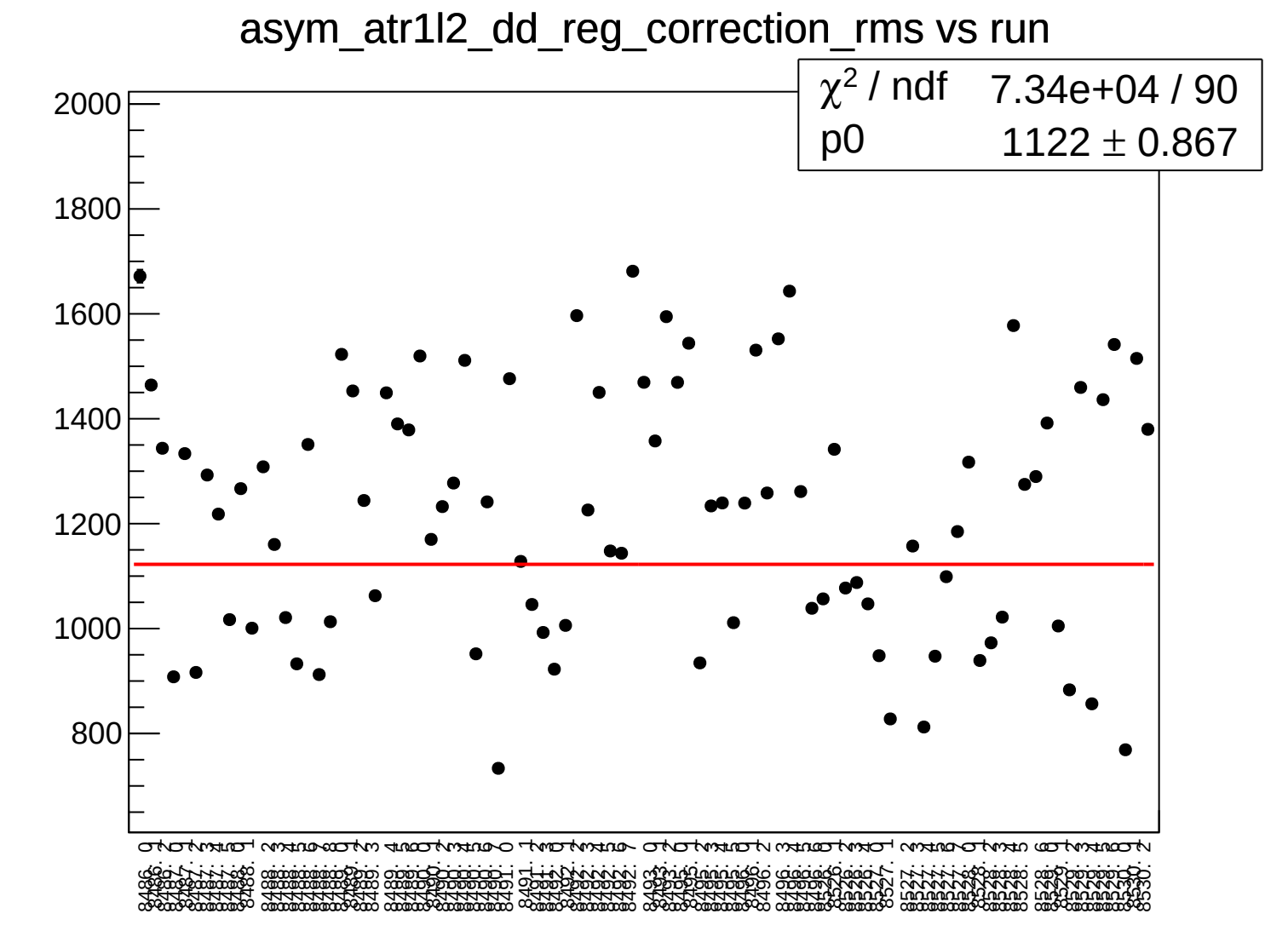

reg_asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 78.79 / 90
p0 2.087e+04 ± 2.557e+04
pull
Entries 91
Mean −1124
Std Dev 0

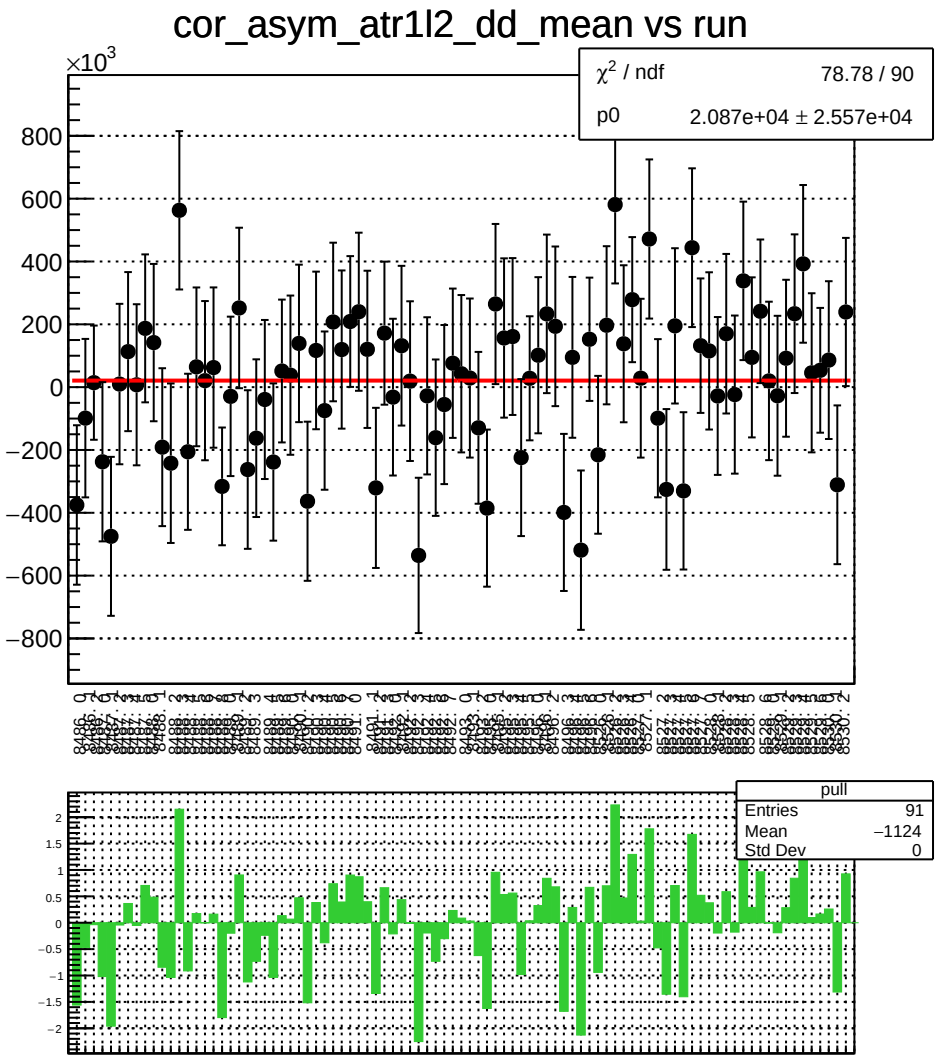

pull1D
Entries 91
Mean −0.005312
Std Dev 0.9305

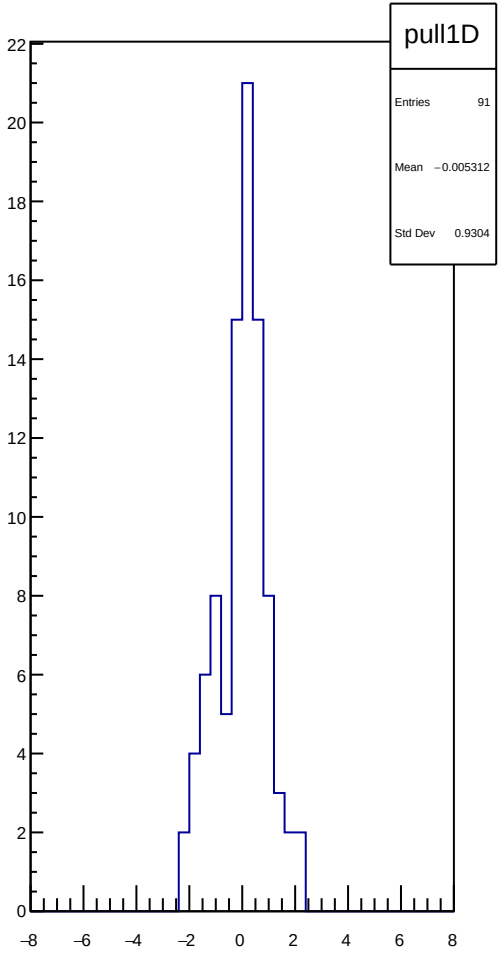

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 107.2 / 90
p0 2.391e+04 ± 18.08
24600
24400
24200
24000
23800
23600
23400
23200

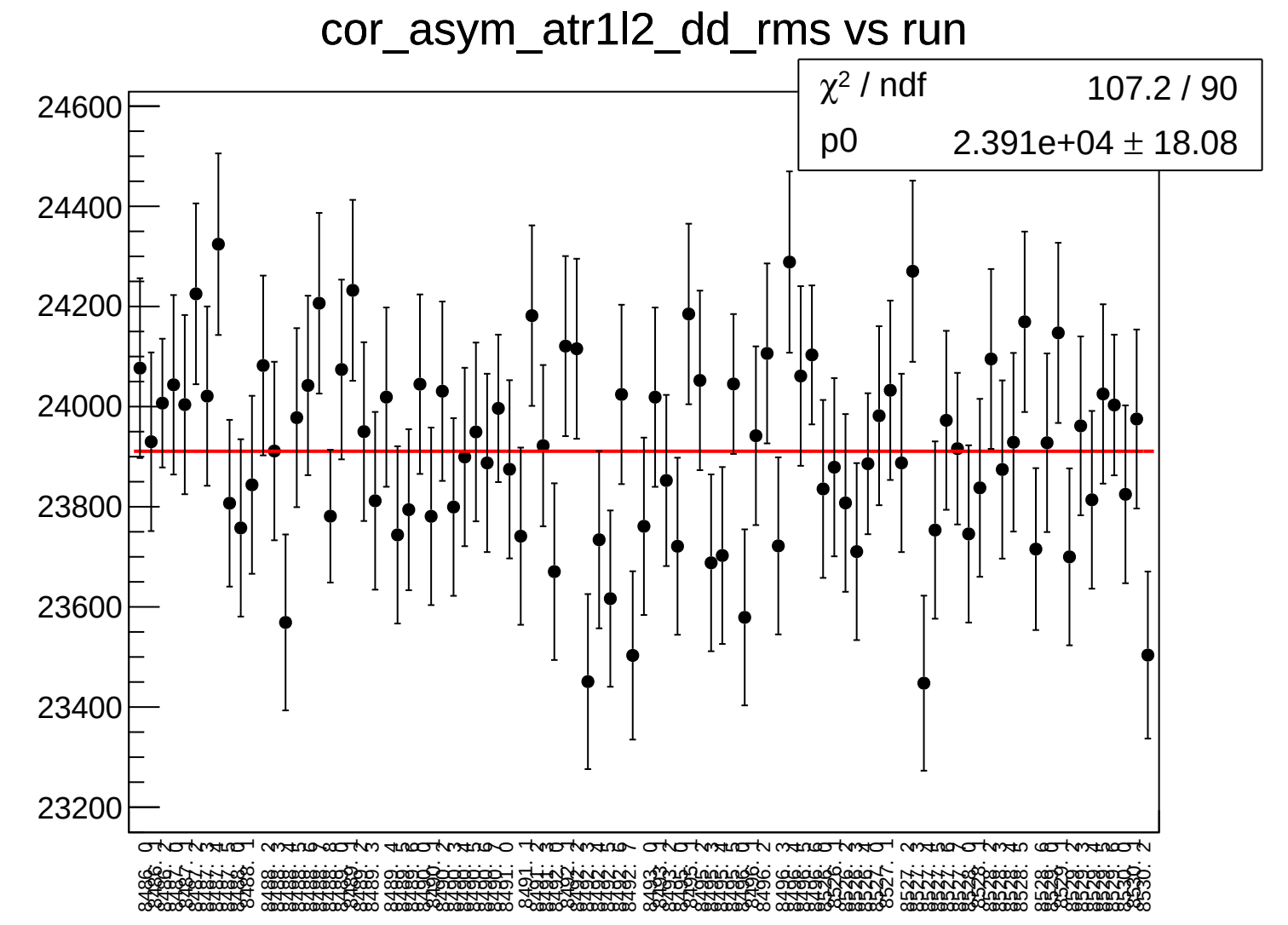

asym_atr1l2_dd_reg_correction_mean vs run
χ² / ndf 98.07 / 90
p0 −239 ± 1226
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 112
Std Dev 0
2
1
0
−1
−2
−3

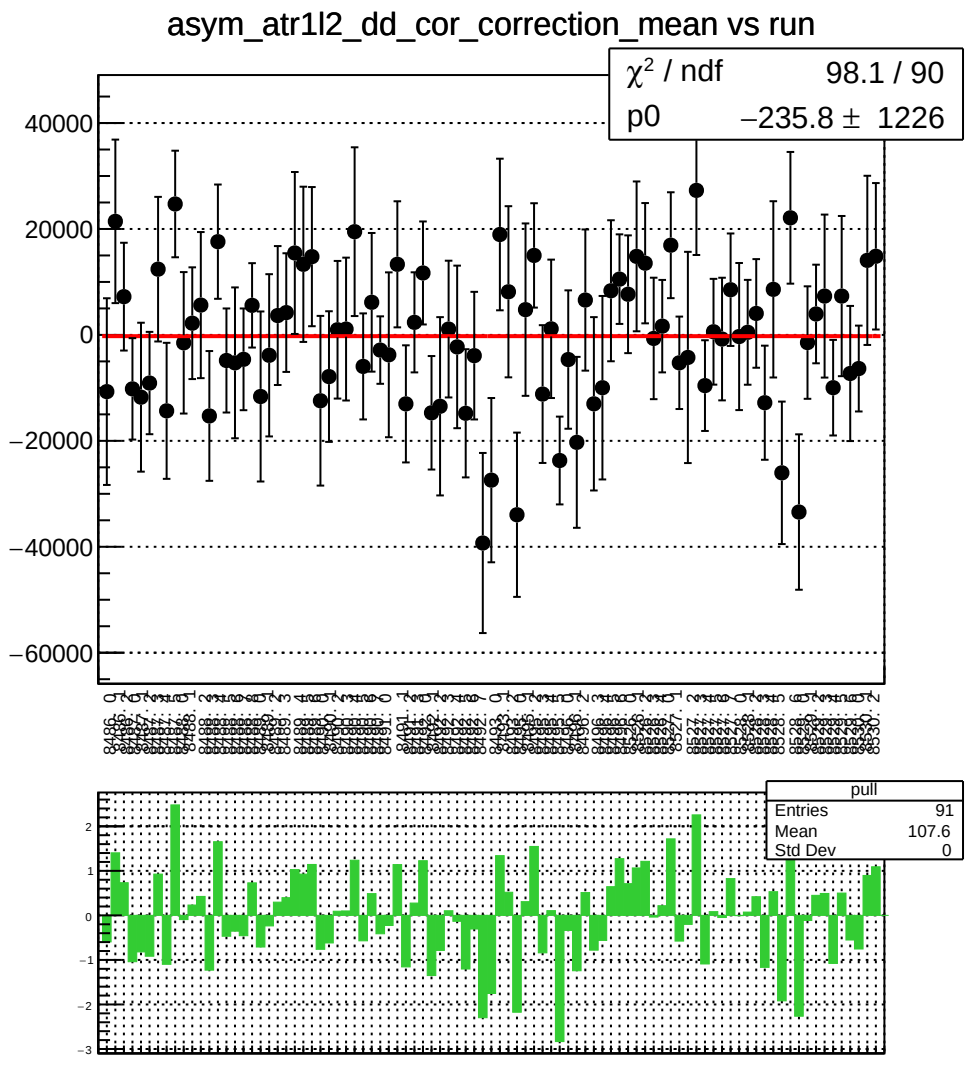

pull1D
Entries 91
Mean −0.005705
Std Dev 1.038
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

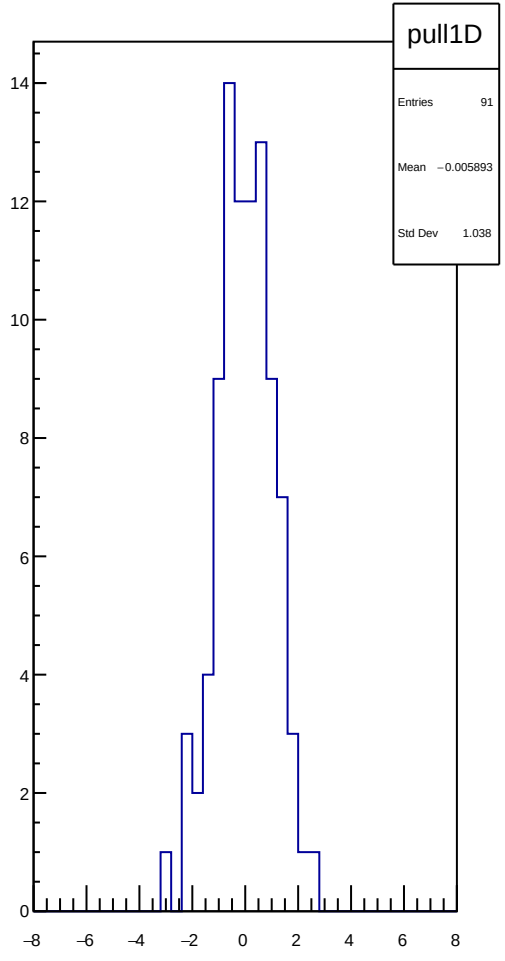

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 7.34e+04 / 90
p0 1122 ± 0.867
2000
1800
1600
1400
1200
1000
800

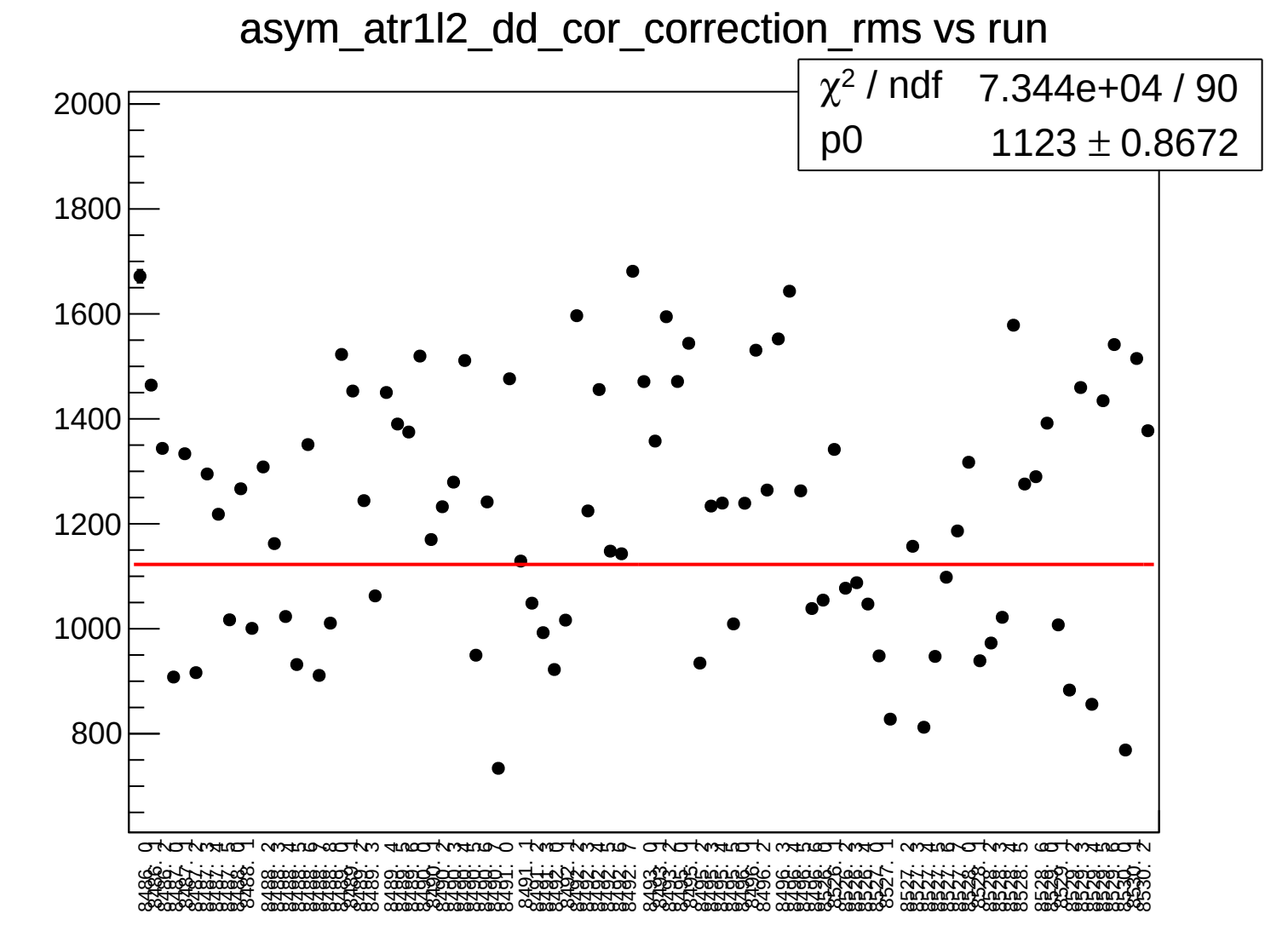

cor_asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 78.78 / 90
p0 2.087e+04 ± 2.557e+04
pull
Entries 91
Mean −1124
Std Dev 0

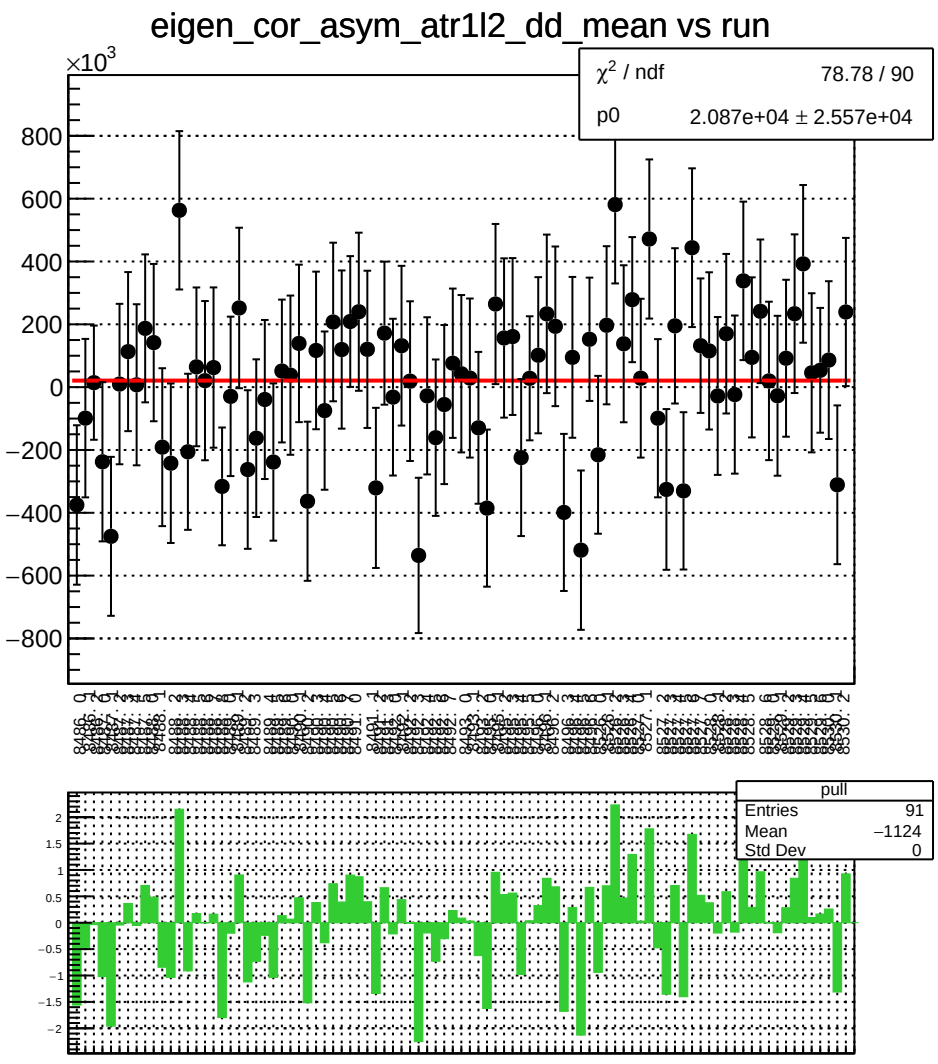

pull1D
Entries 91
Mean −0.005312
Std Dev 0.9304

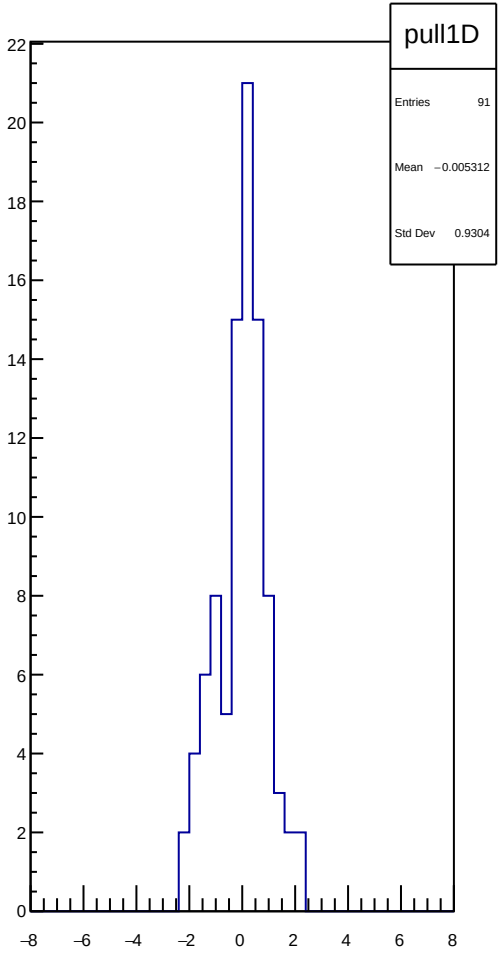

cor_asym_atr1l2_dd_rms vs run
χ² / ndf 107.2 / 90
p0 2.391e+04 ± 18.08
24600
24400
24200
24000
23800
23600
23400
23200

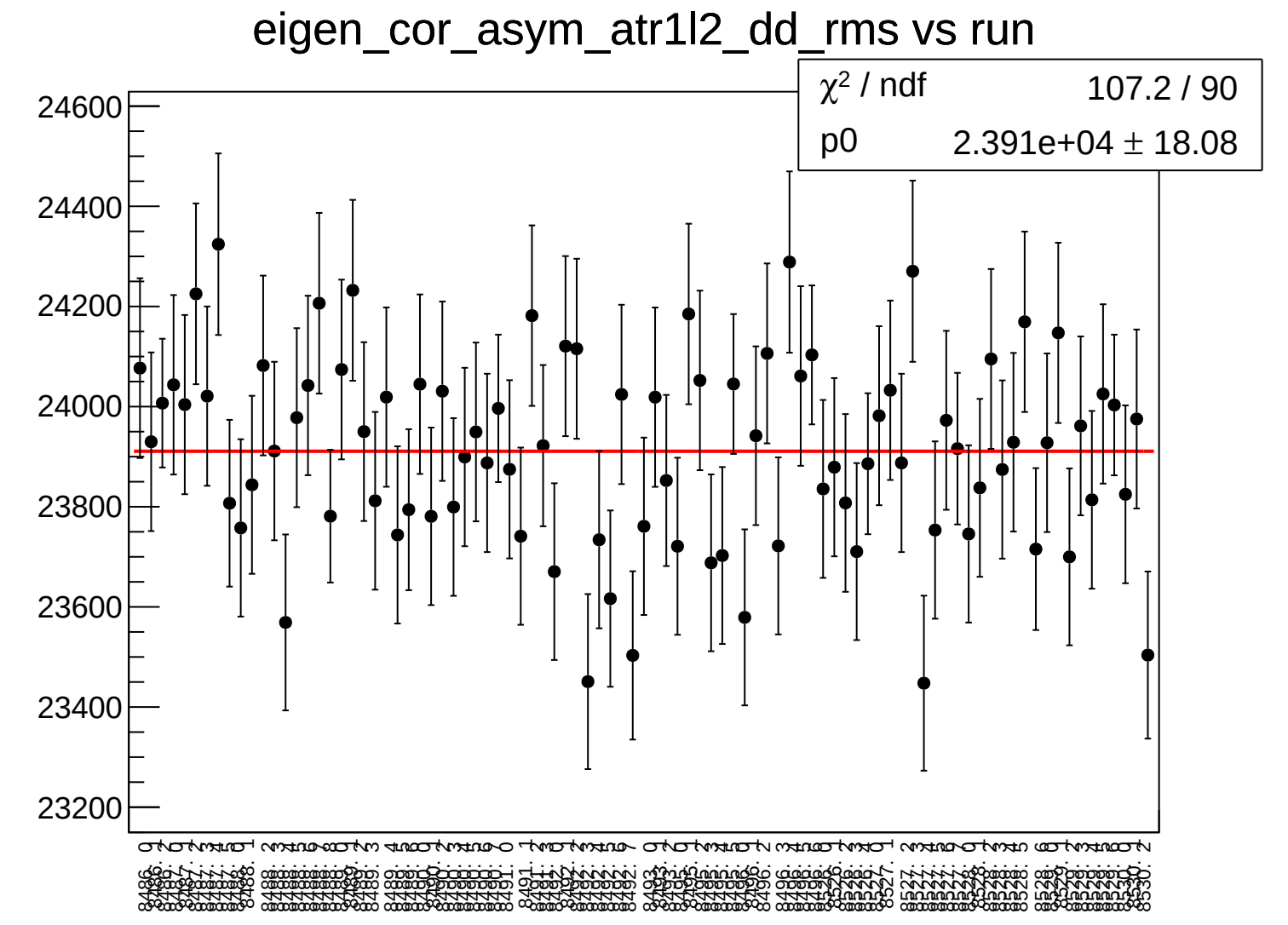

asym_atr1l2_dd_cor_correction_mean vs run
χ² / ndf 98.1 / 90
p0 −235.8 ± 1226
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 107.6
Std Dev 0
2
1
0
−1
−2
−3

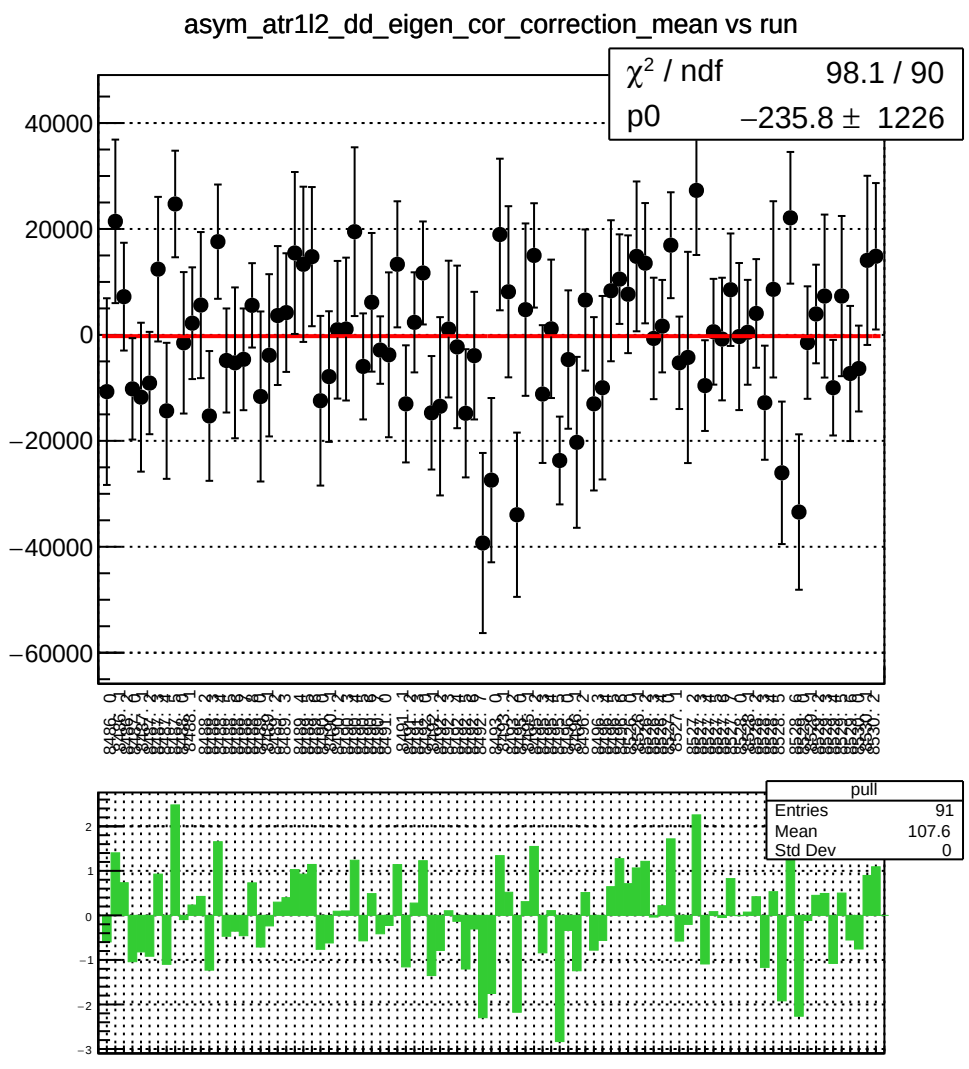

pull1D
Entries 91
Mean −0.005893
Std Dev 1.038
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

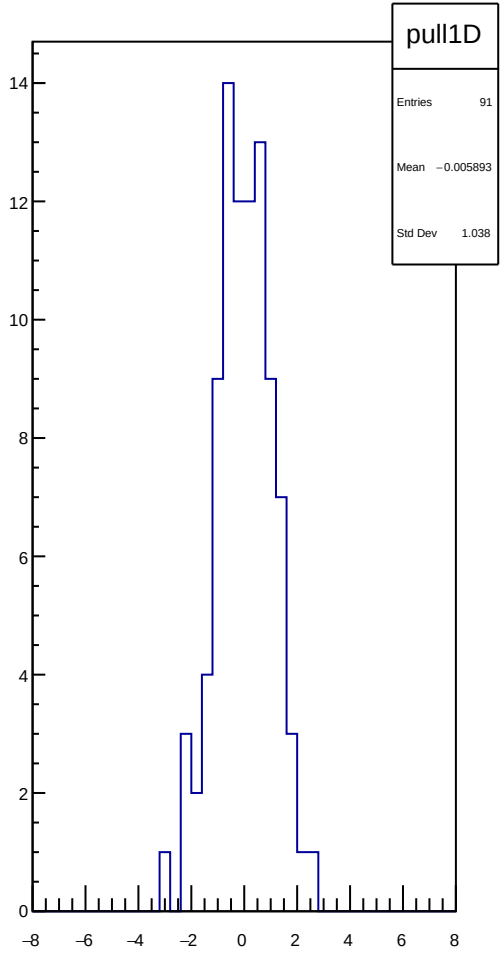

asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 7.344e+04 / 90
p0 1123 ± 0.8672
2000
1800
1600
1400
1200
1000
800

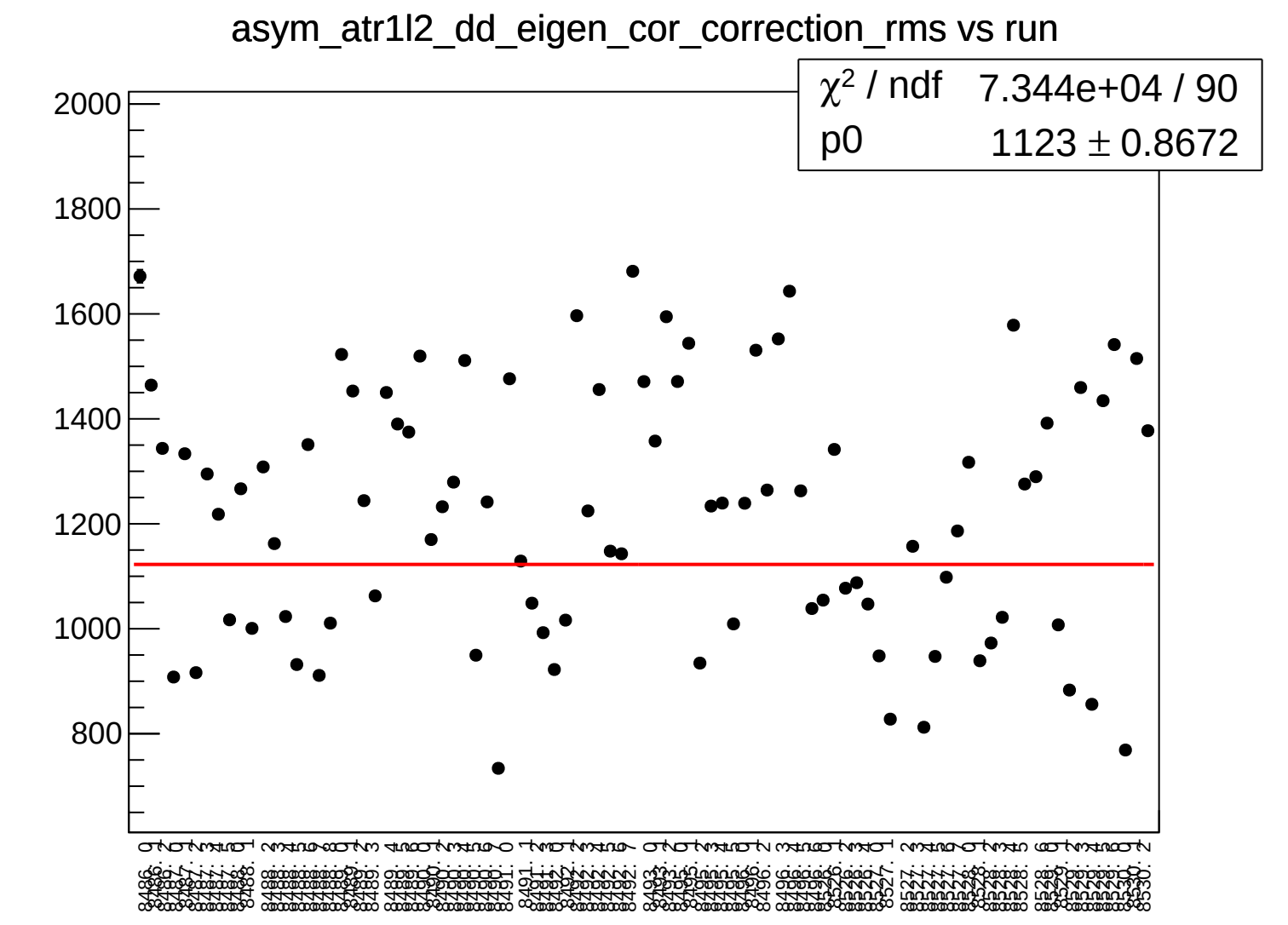

eigen_cor_asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 78.78 / 90
p0 2.087e+04 ± 2.557e+04
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 91
Mean −1124
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

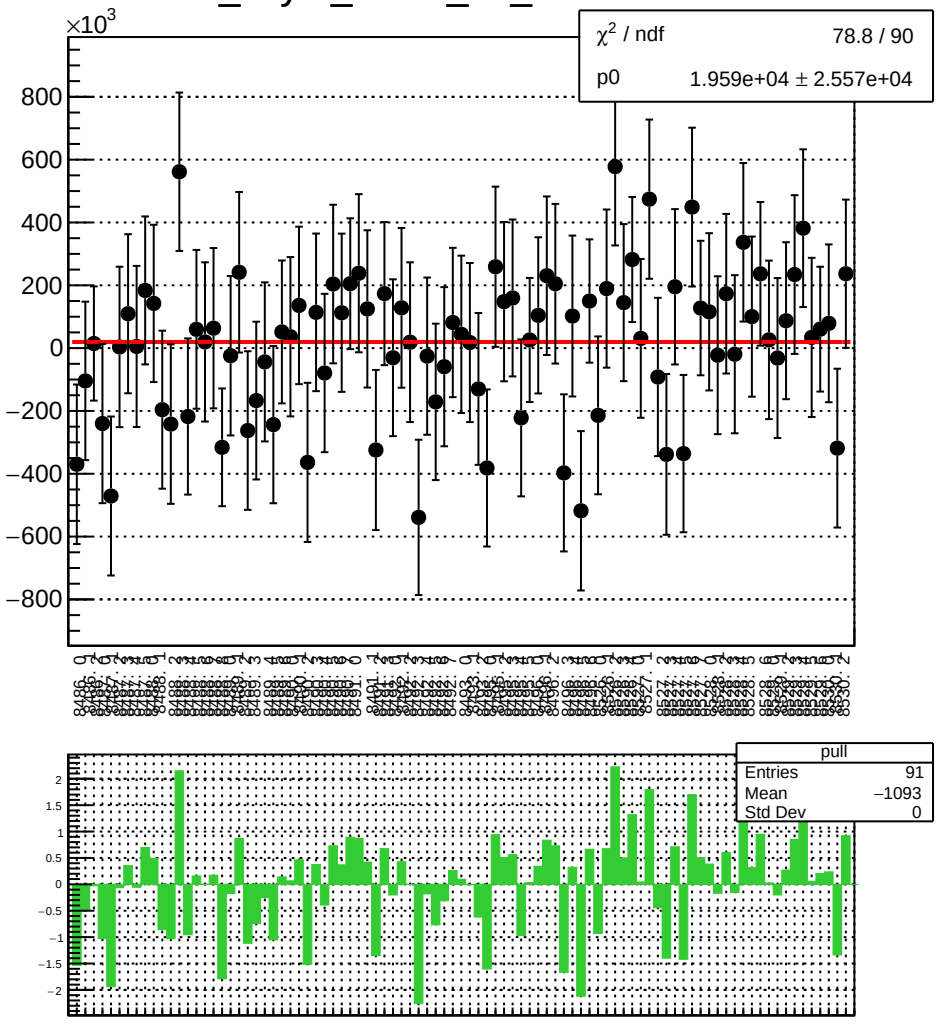

pull1D
Entries 91
Mean −0.005312
Std Dev 0.9304
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

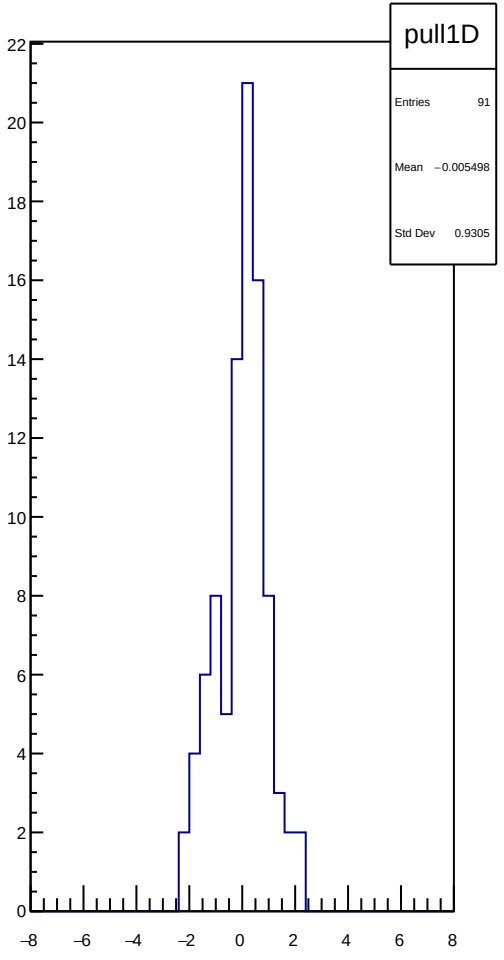

eigen_cor_asym_atr1l2_dd_rms vs run
χ² / ndf 107.2 / 90
p0 2.391e+04 ± 18.08
24600
24400
24200
24000
23800
23600
23400
23200

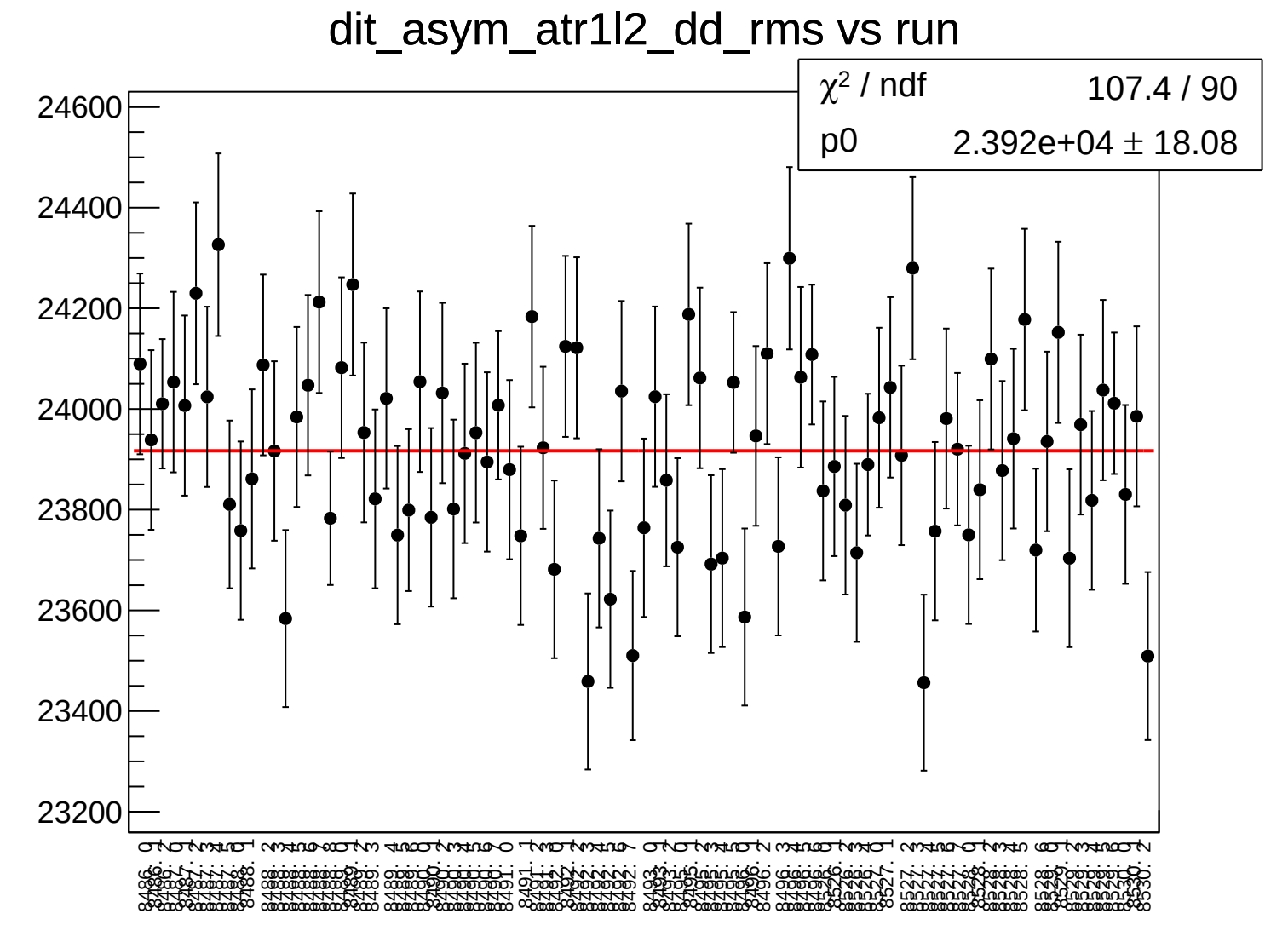

asym_atr1l2_dd_eigen_cor_correction_mean vs run
χ² / ndf 98.1 / 90
p0 −235.8 ± 1226
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 107.6
Std Dev 0
2
1
0
−1
−2
−3

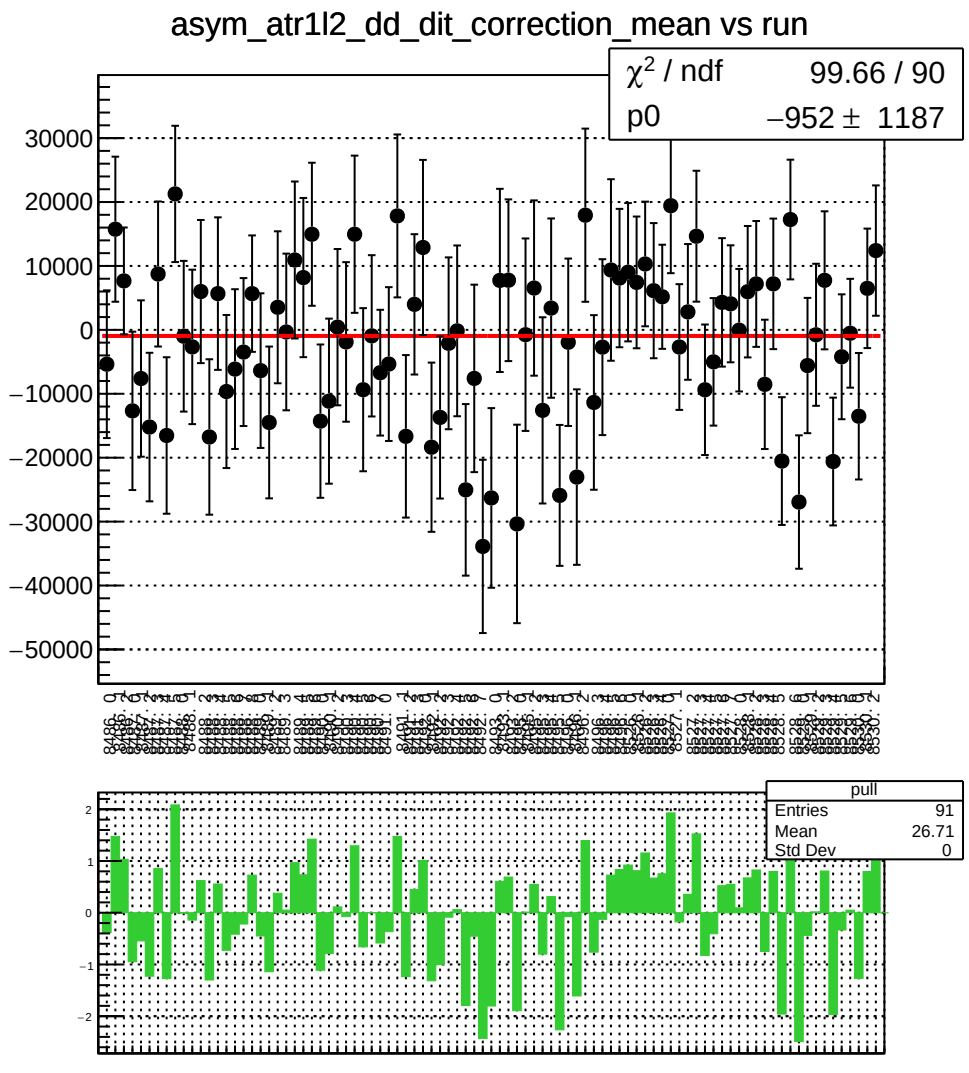

pull1D
Entries 91
Mean −0.005893
Std Dev 1.038
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

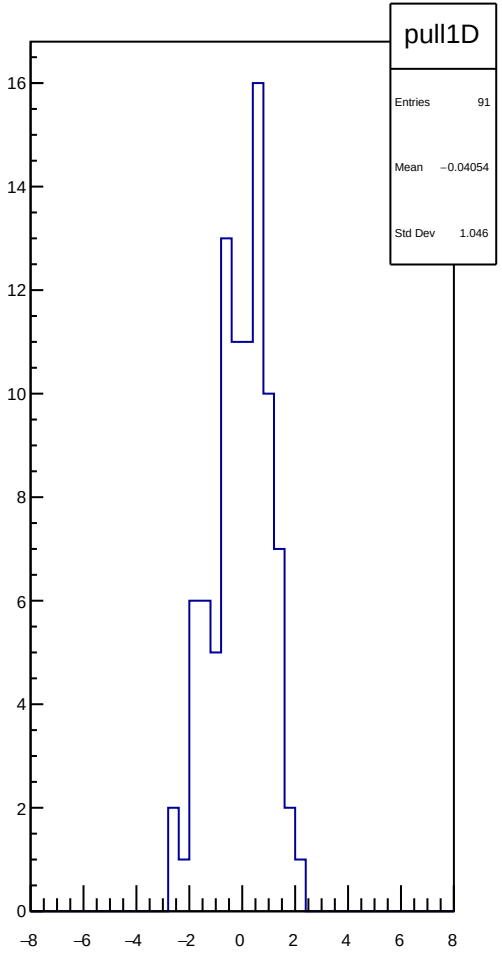

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 7.344e+04 / 90
p0 1123 ± 0.8672
2000
1800
1600
1400
1200
1000
800

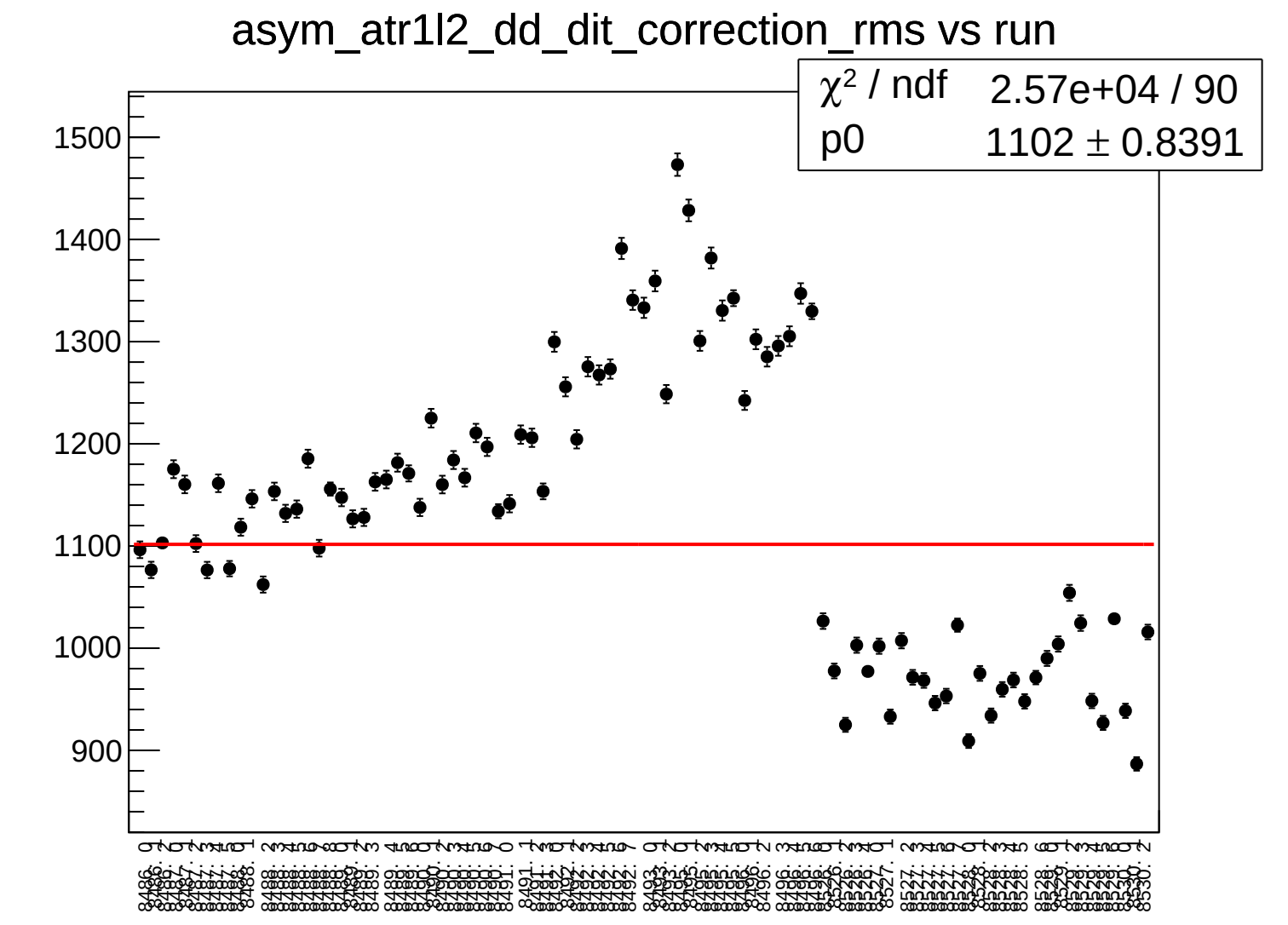

dit_asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 78.8 / 90
p0 1.959e+04 ± 2.557e+04
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 91
Mean −1093
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

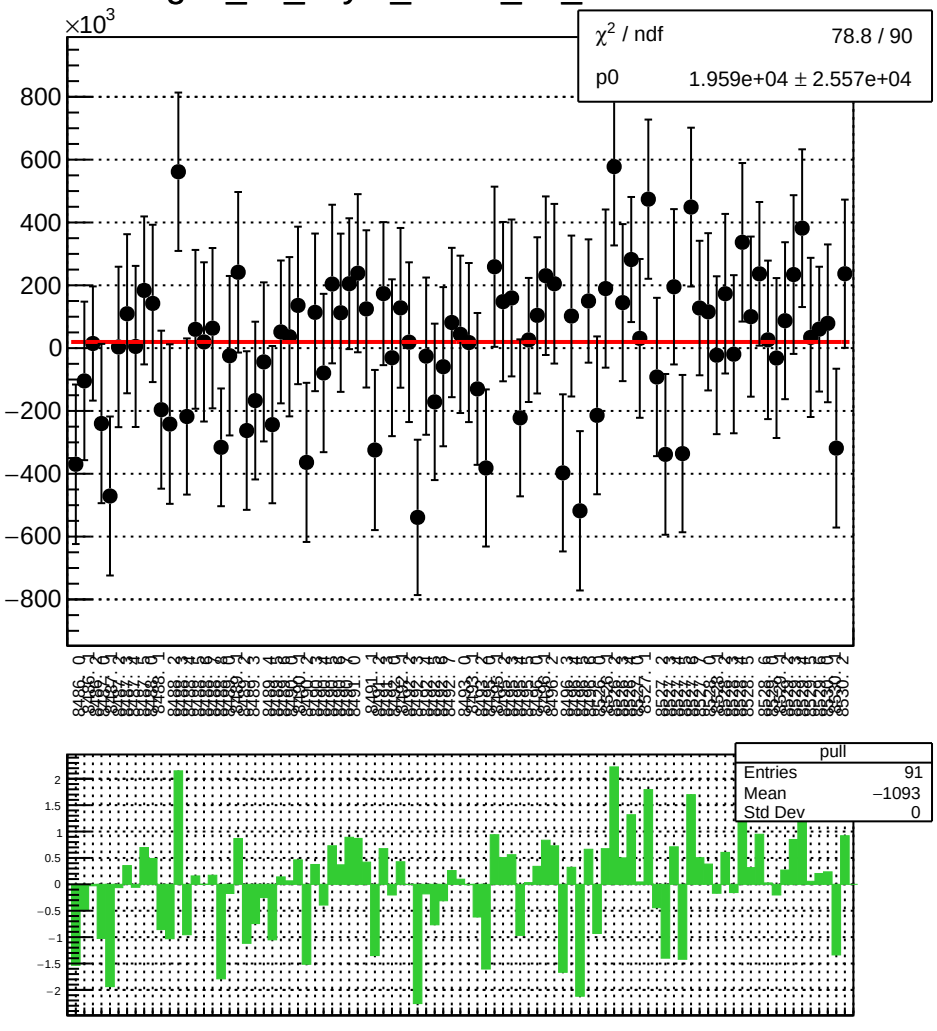

pull1D
Entries 91
Mean −0.005498
Std Dev 0.9305
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

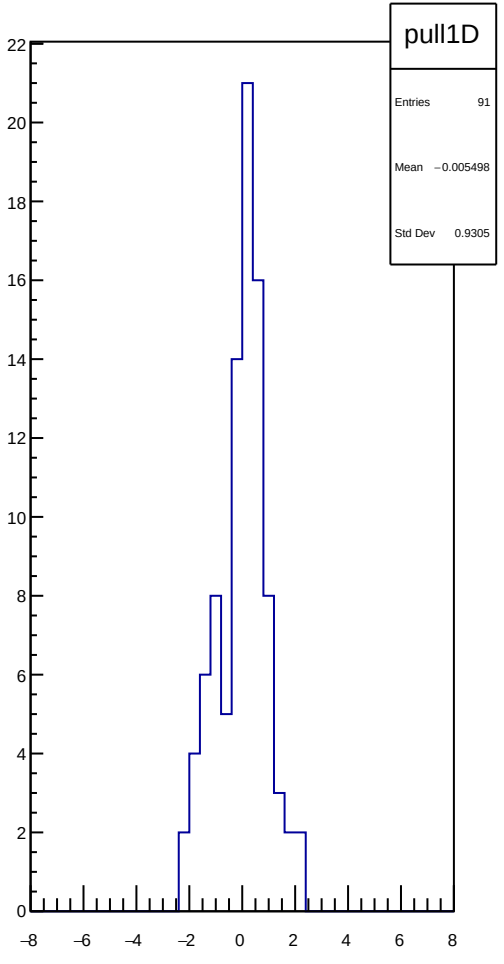

dit_asym_atr1l2_dd_rms vs run
χ² / ndf 107.4 / 90
p0 2.392e+04 ± 18.08
24600
24400
24200
24000
23800
23600
23400
23200

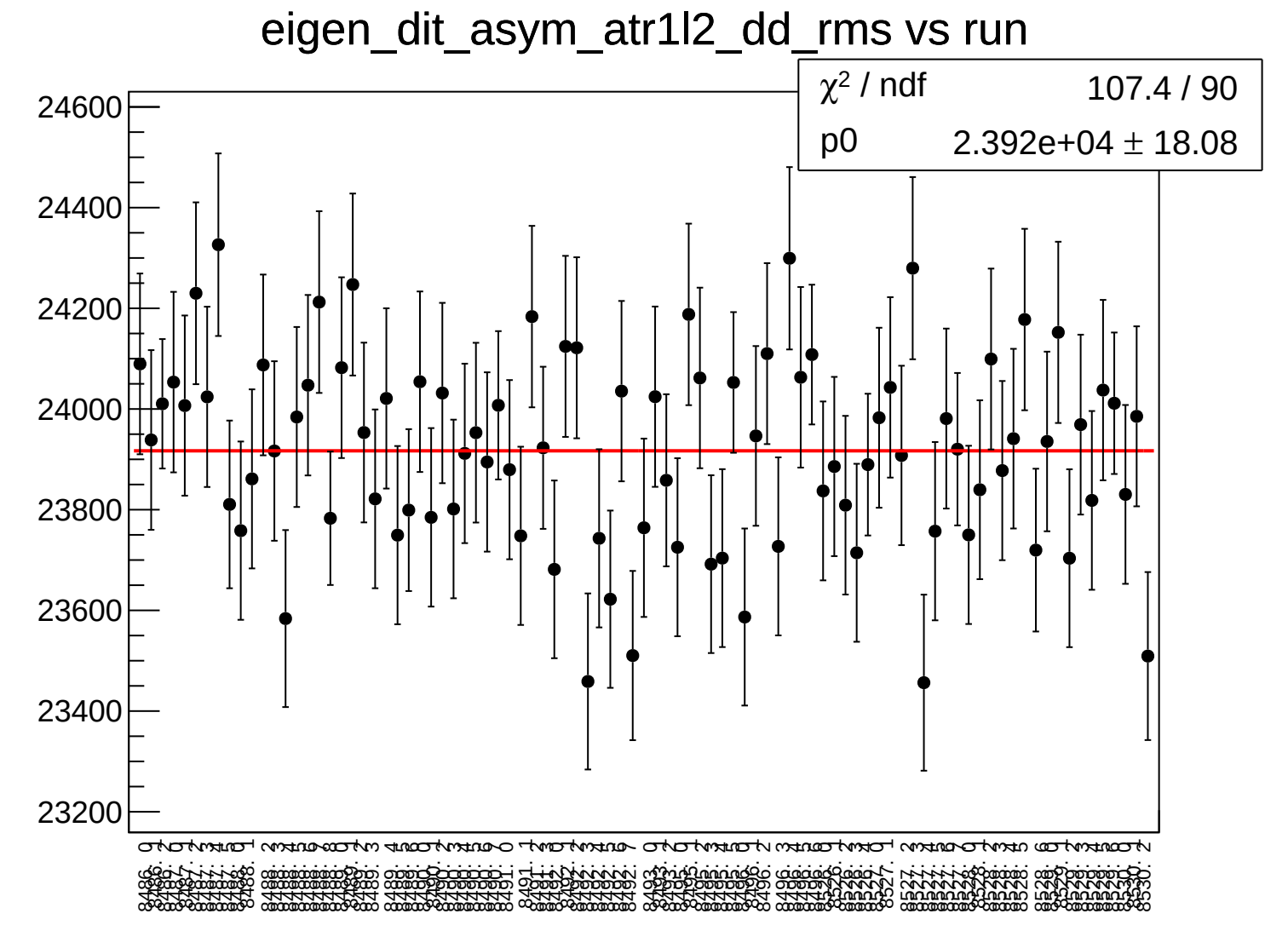

asym_atr1l2_dd_dit_correction_mean vs run
χ² / ndf 99.66 / 90
p0 −952 ± 1187
pull
Entries 91
Mean 26.71
Std Dev 0

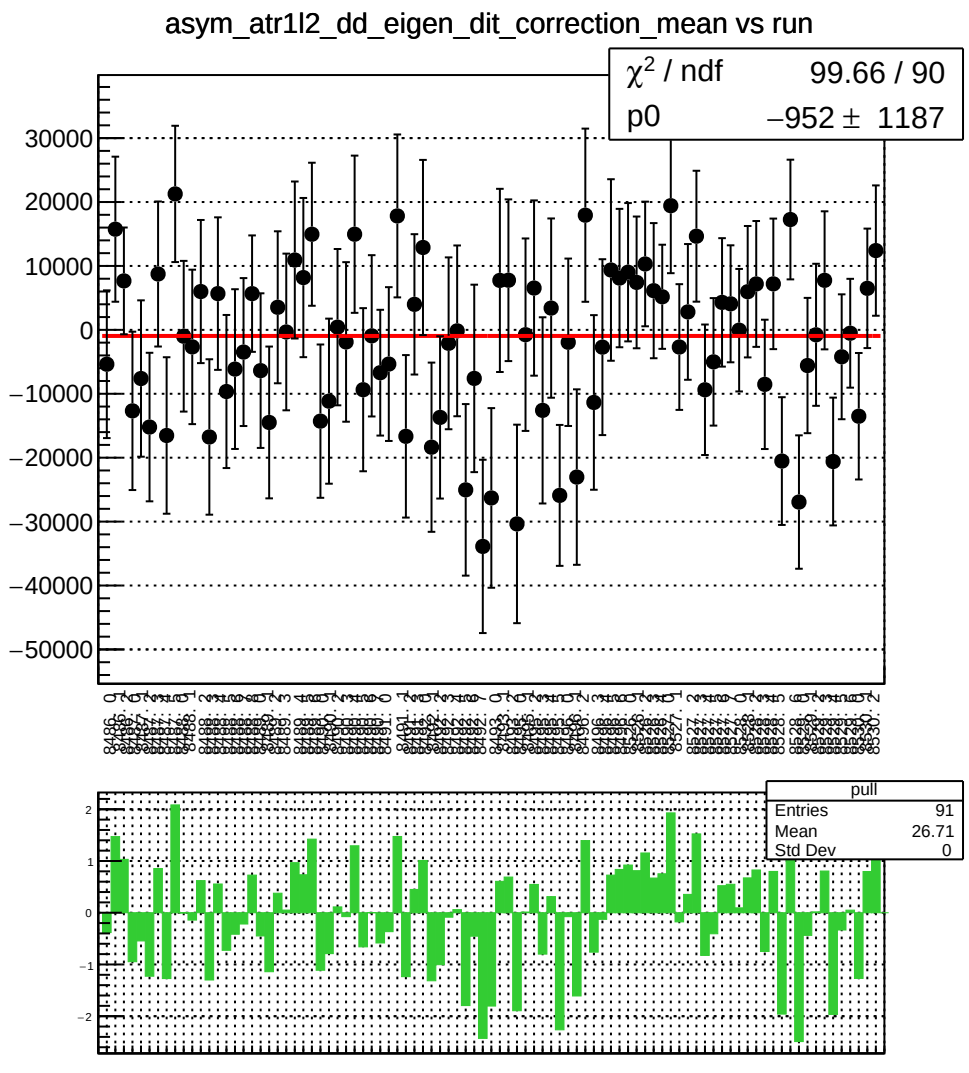

pull1D
Entries 91
Mean −0.04054
Std Dev 1.046

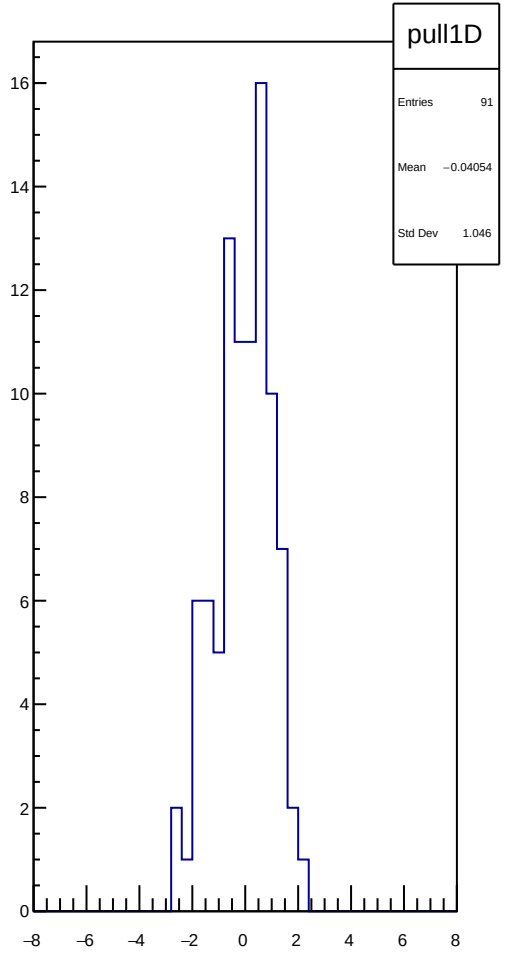

asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 2.57e+04 / 90
p0 1102 ± 0.8391
1500
1400
1300
1200
1100
1000
900

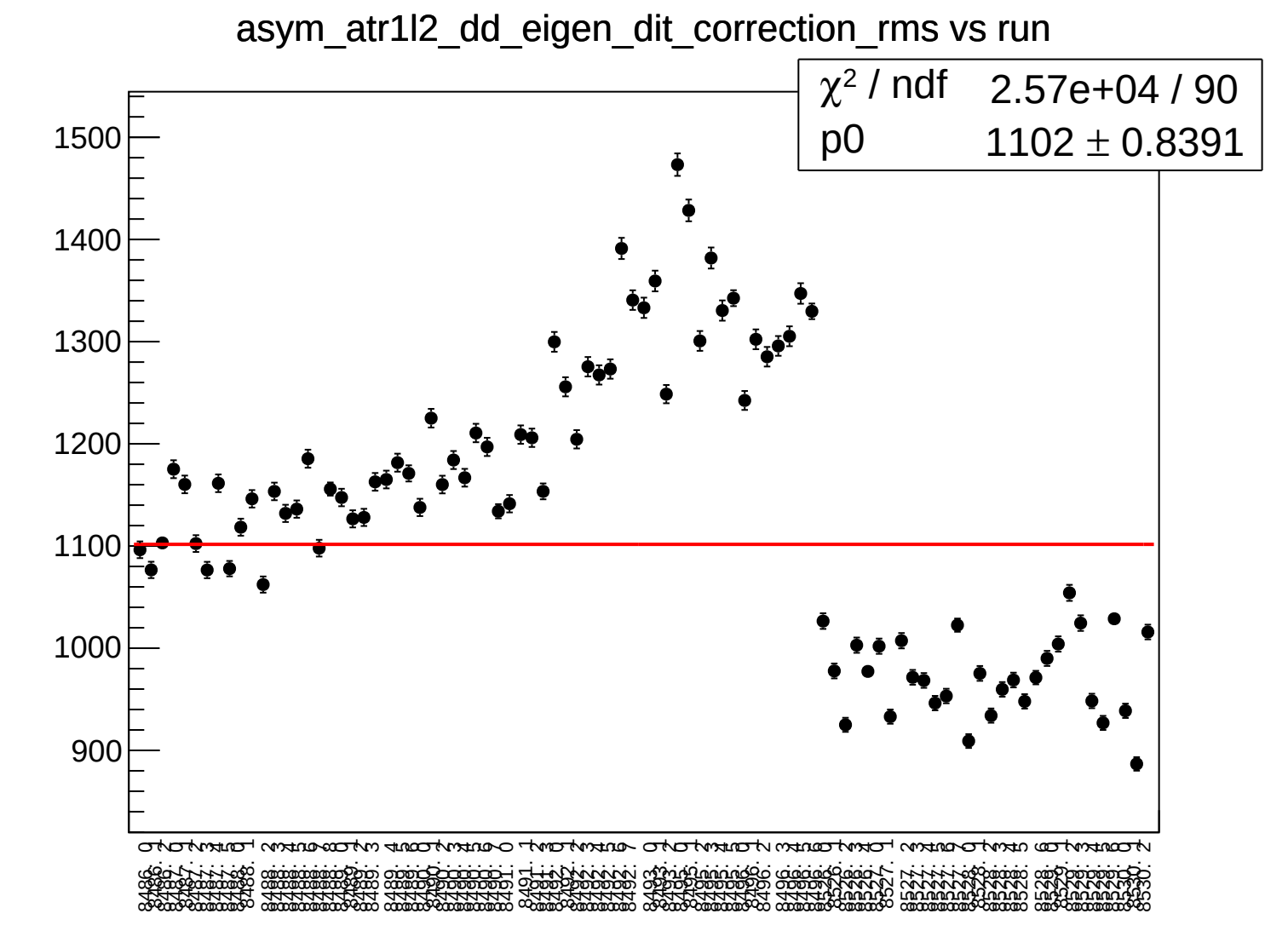

eigen_dit_asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 78.8 / 90
p0 1.959e+04 ± 2.557e+04
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 91
Mean −1093
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

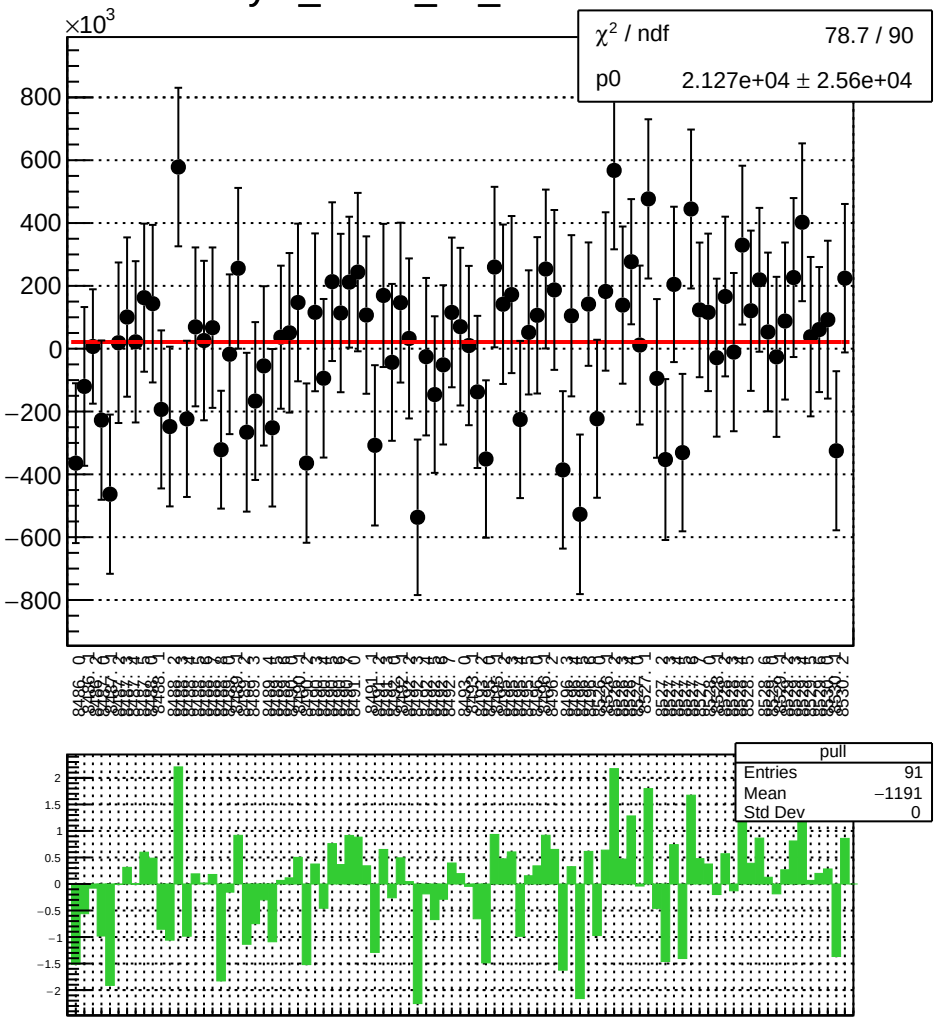

pull1D
Entries 91
Mean −0.005498
Std Dev 0.9305
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

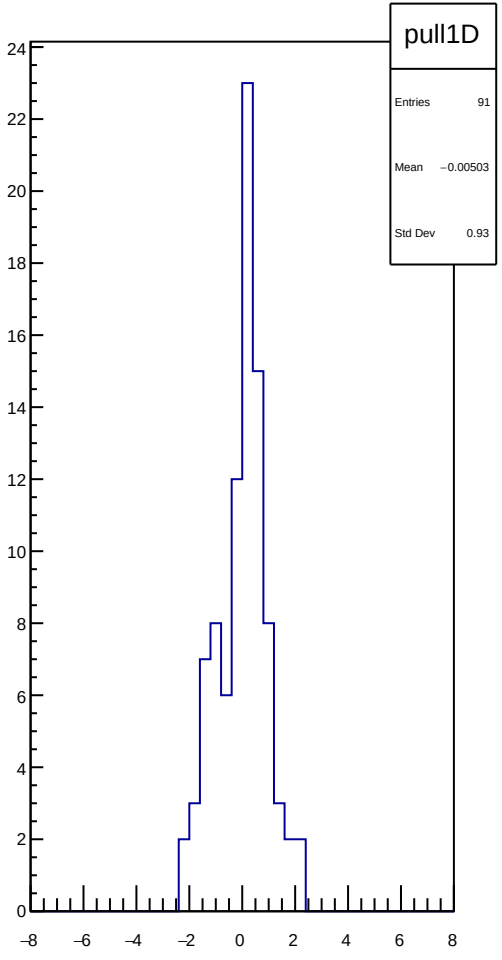

eigen_dit_asym_atr1l2_dd_rms vs run
χ² / ndf 107.4 / 90
p0 2.392e+04 ± 18.08
24600
24400
24200
24000
23800
23600
23400
23200

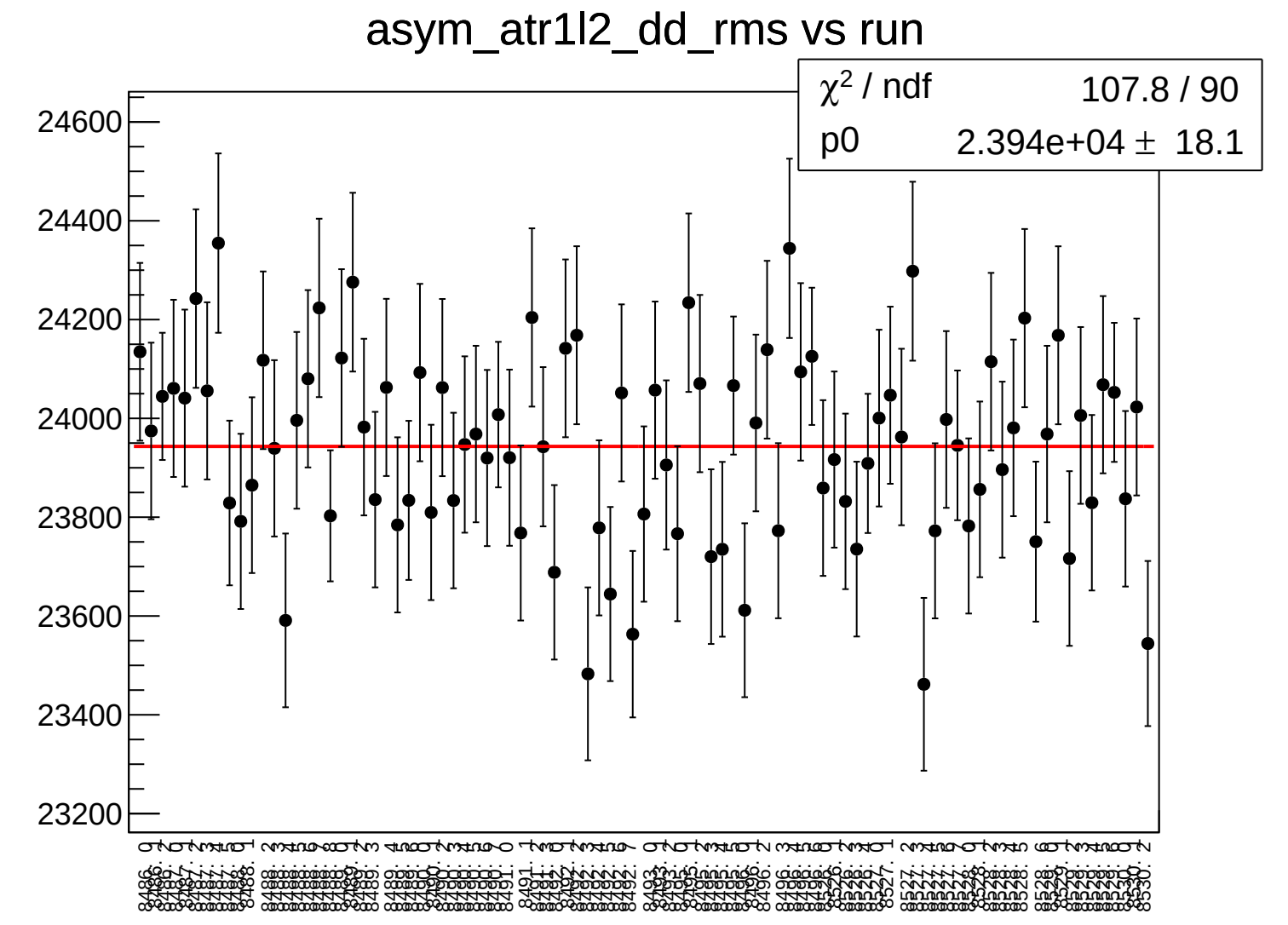

asym_atr1l2_dd_eigen_dit_correction_mean vs run
χ² / ndf 99.66 / 90
p0 −952 ± 1187
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 91
Mean 26.71
Std Dev 0
2
1
0
−1
−2

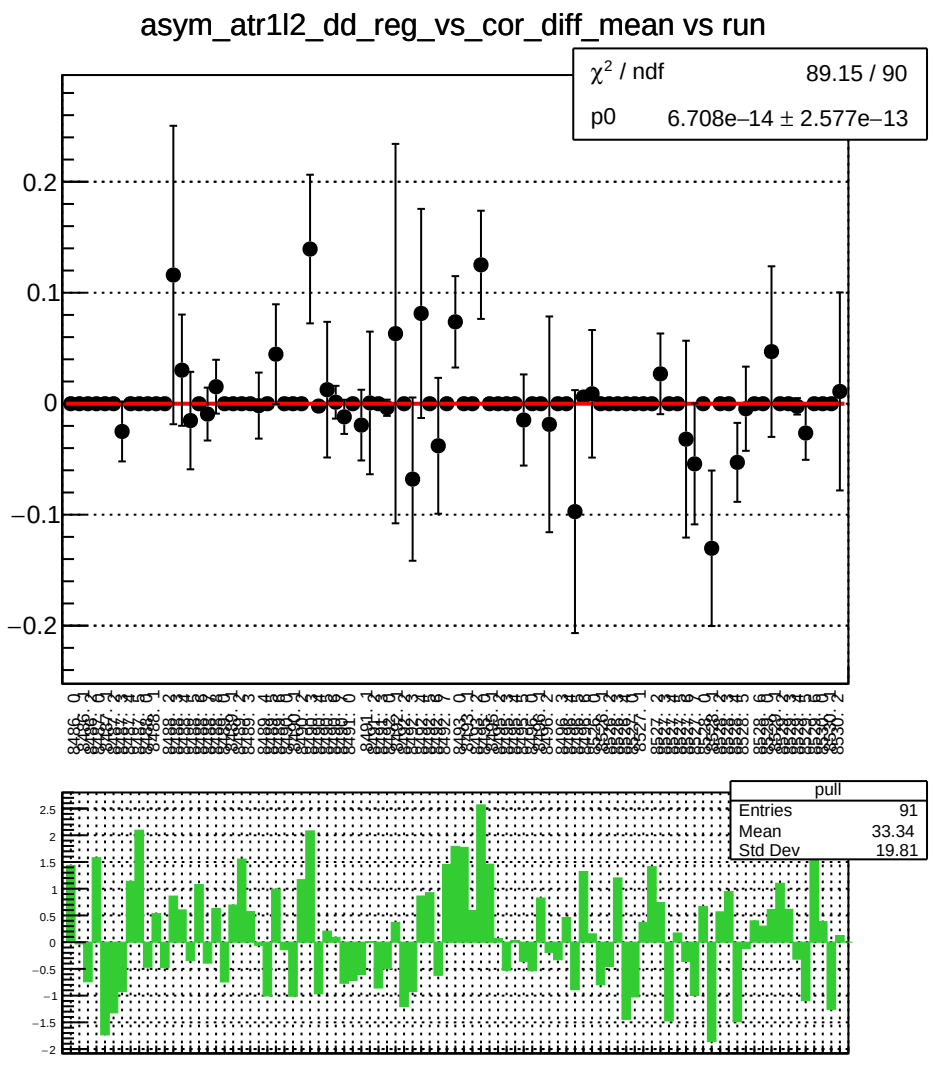

pull1D
Entries 91
Mean −0.04054
Std Dev 1.046
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

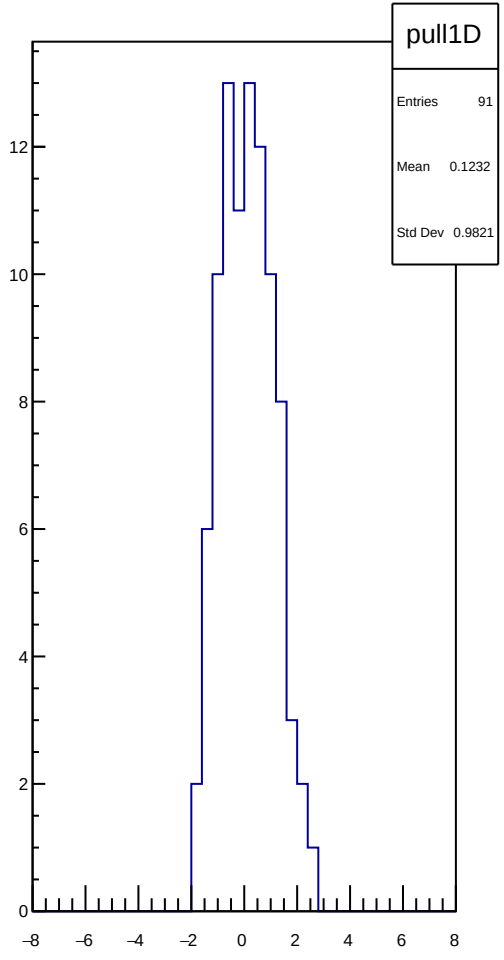

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.57e+04 / 90
p0 1102 ± 0.8391
1500
1400
1300
1200
1100
1000
900

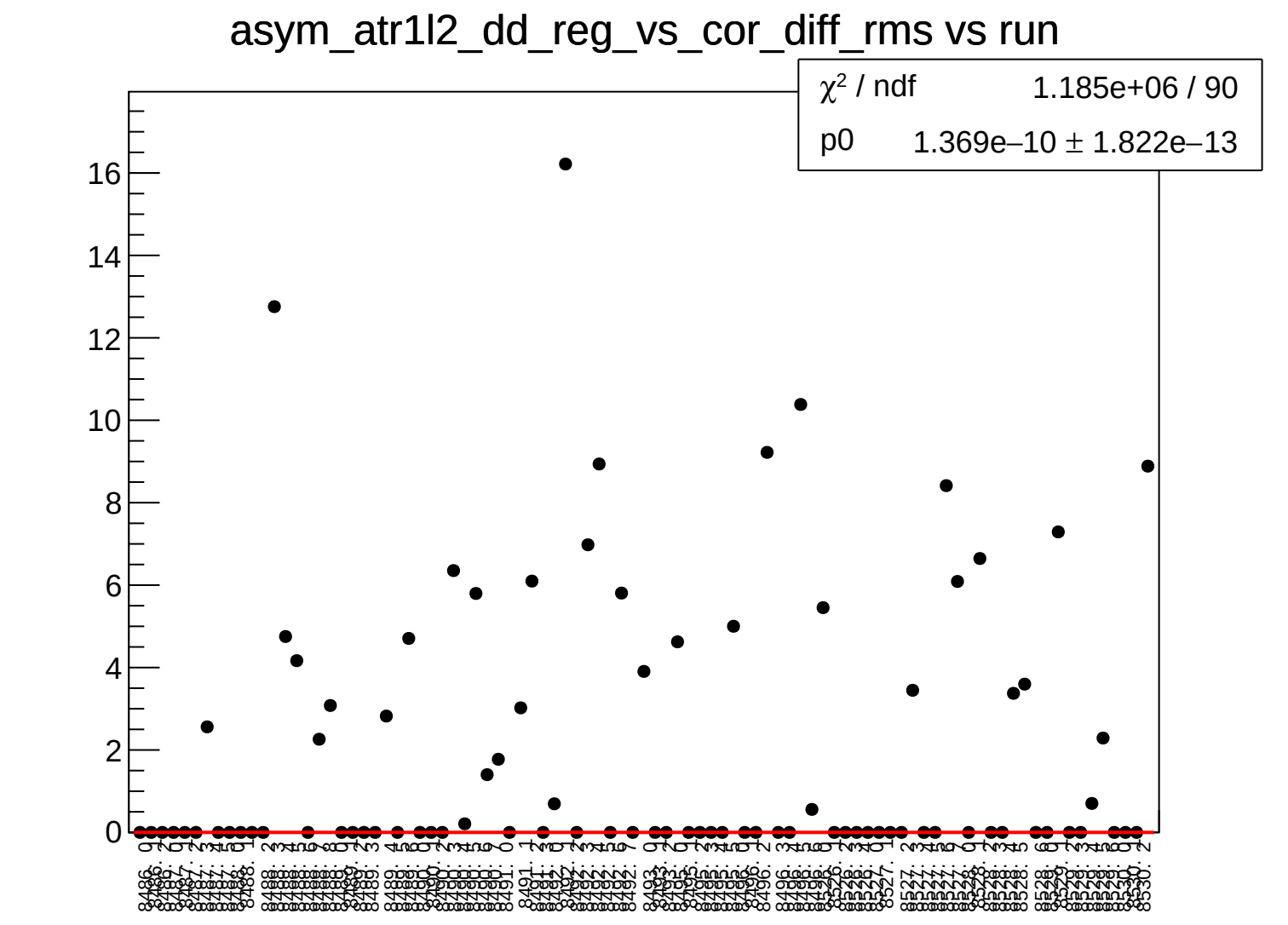

asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 78.7 / 90
p0 2.127e+04 ± 2.56e+04
pull
Entries 91
Mean −1191
Std Dev 0

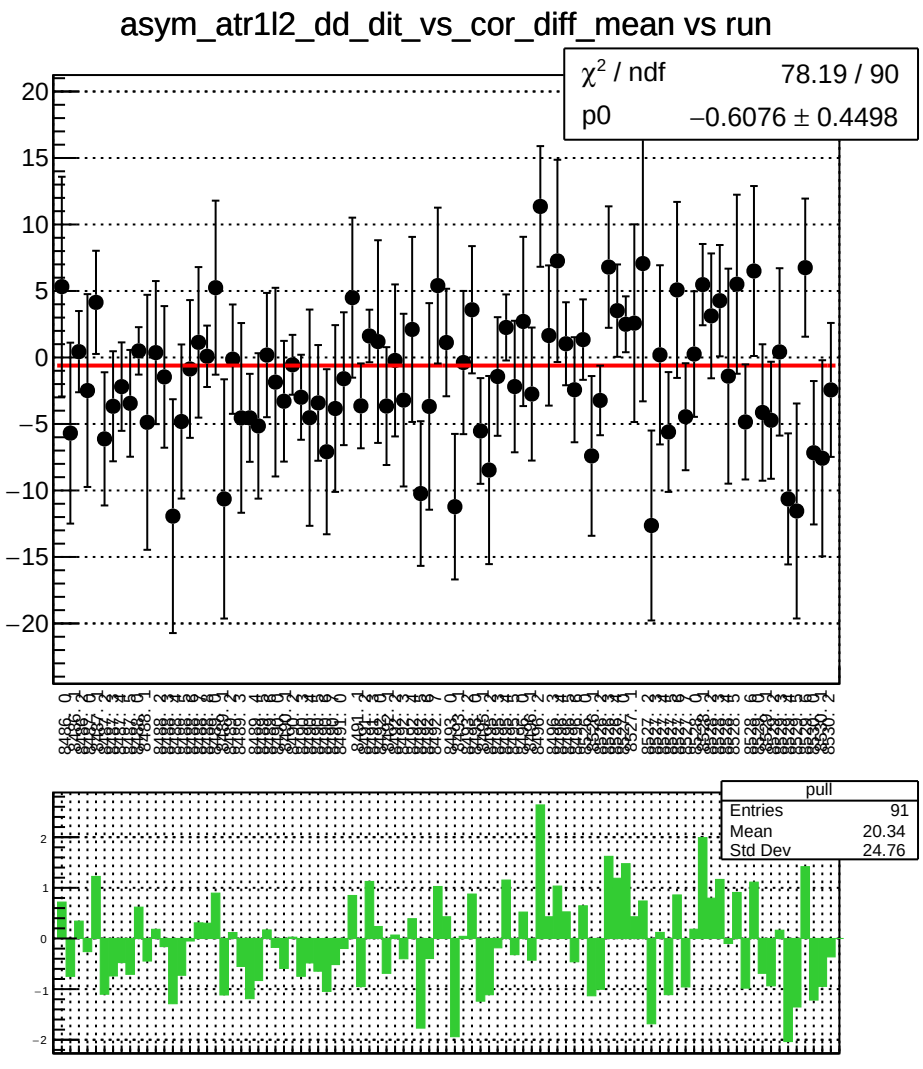

pull1D
Entries 91
Mean −0.00503
Std Dev 0.93

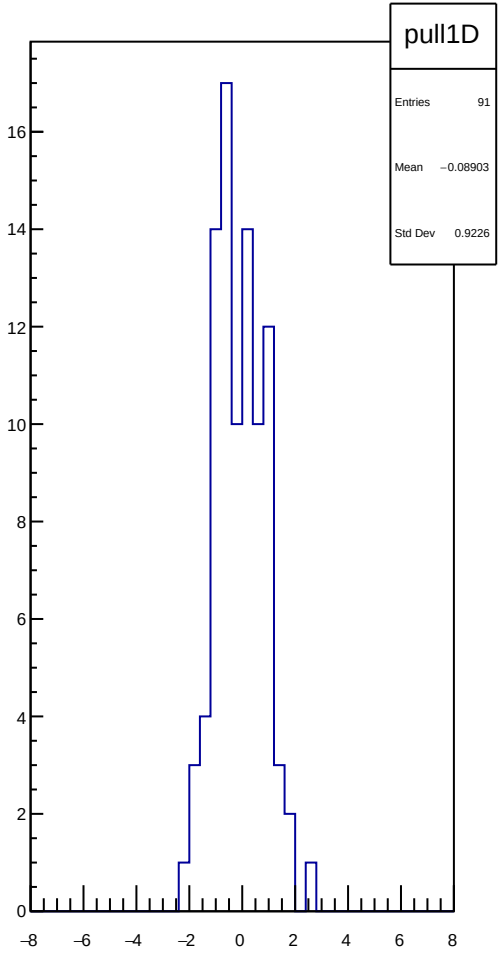

asym_atr1l2_dd_rms vs run
χ^2 / ndf 107.8 / 90
p0 2.394e+04 ± 18.1
24600
24400
24200
24000
23800
23600
23400
23200

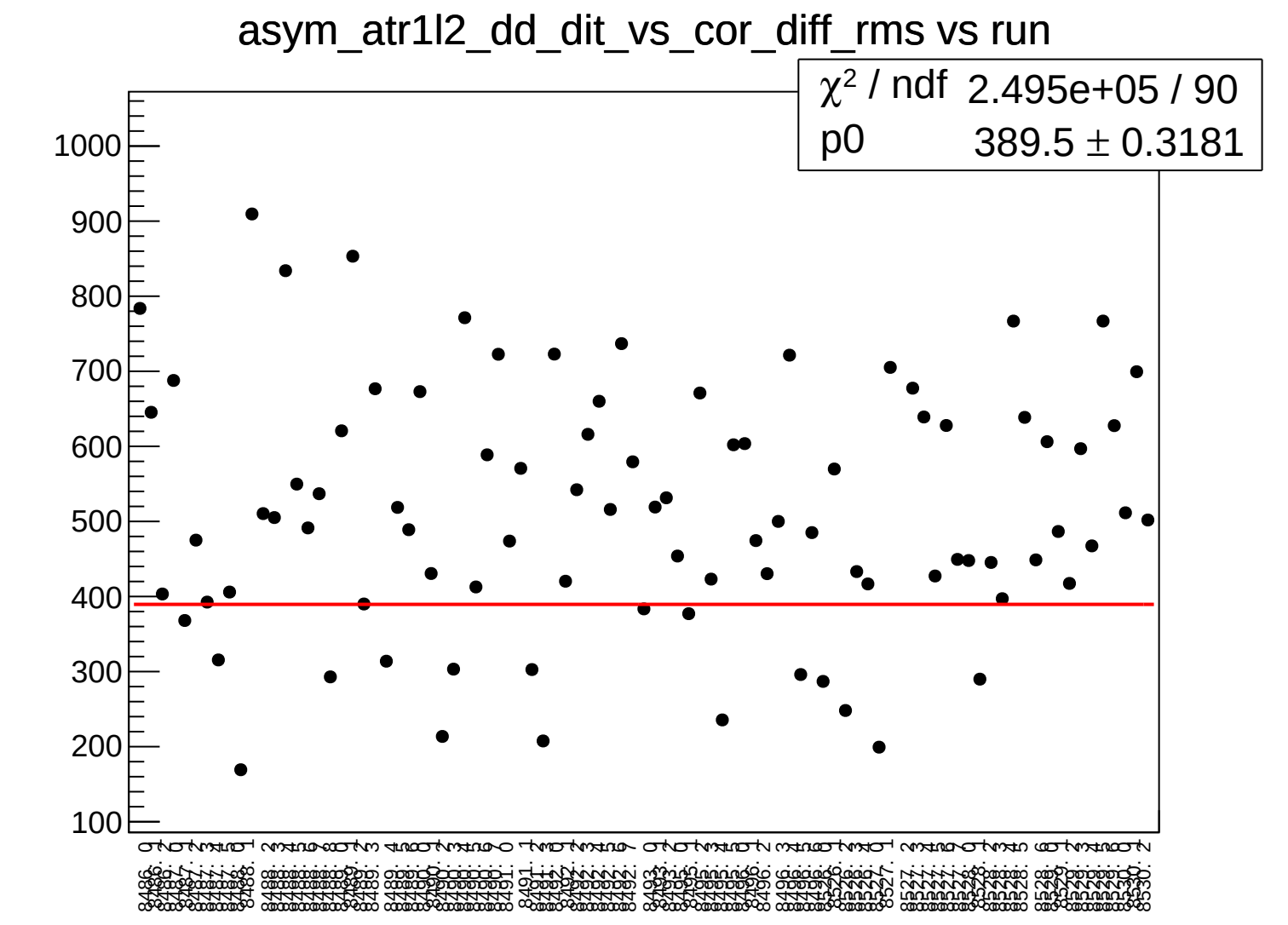

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 89.15 / 90
p0 6.708e−14 ± 2.577e−13
0.2
0.1
0
−0.1
−0.2
pull
Entries 91
Mean 33.34
Std Dev 19.81
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

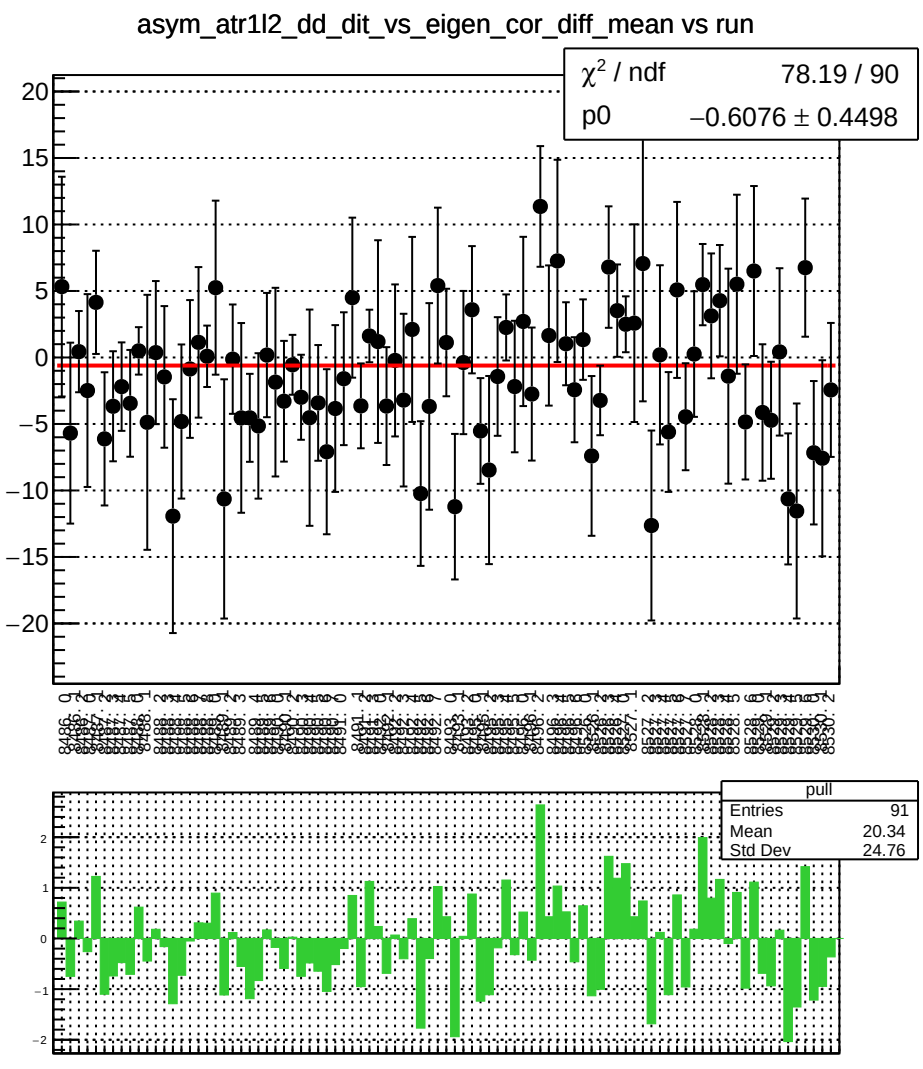

pull1D
Entries 91
Mean 0.1232
Std Dev 0.9821
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

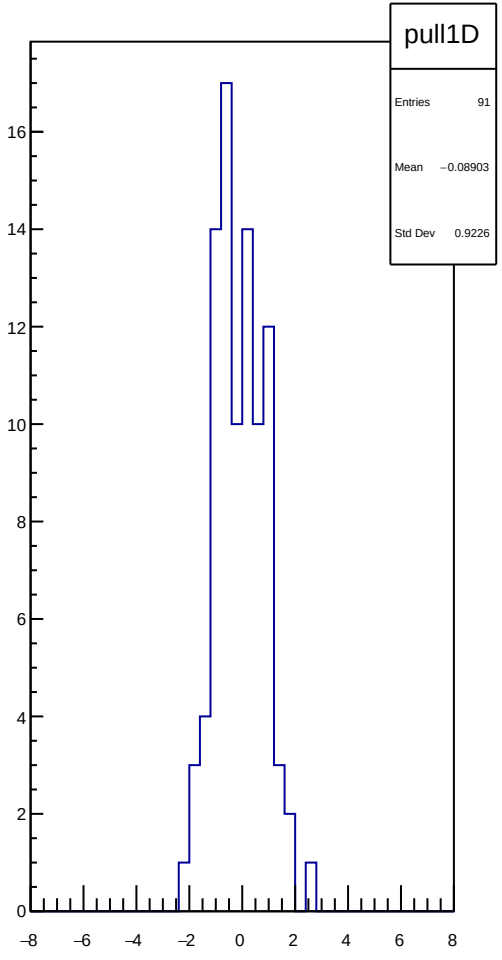

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.185e+06 / 90
p0 1.369e−10 ± 1.822e−13
0
2
4
6
8
10
12
14
16

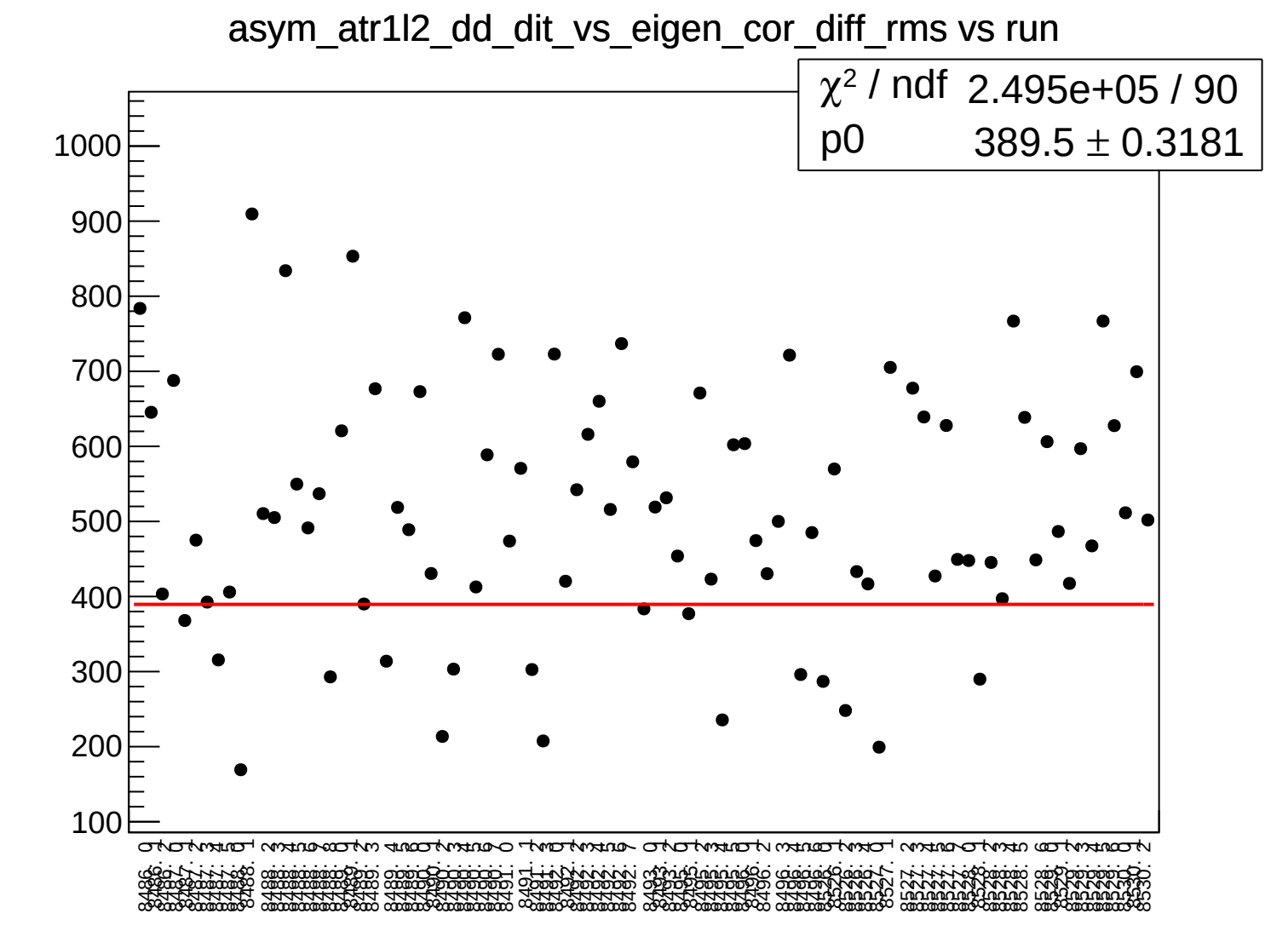

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 78.19 / 90
p0 −0.6076 ± 0.4498
pull
Entries 91
Mean 20.34
Std Dev 24.76

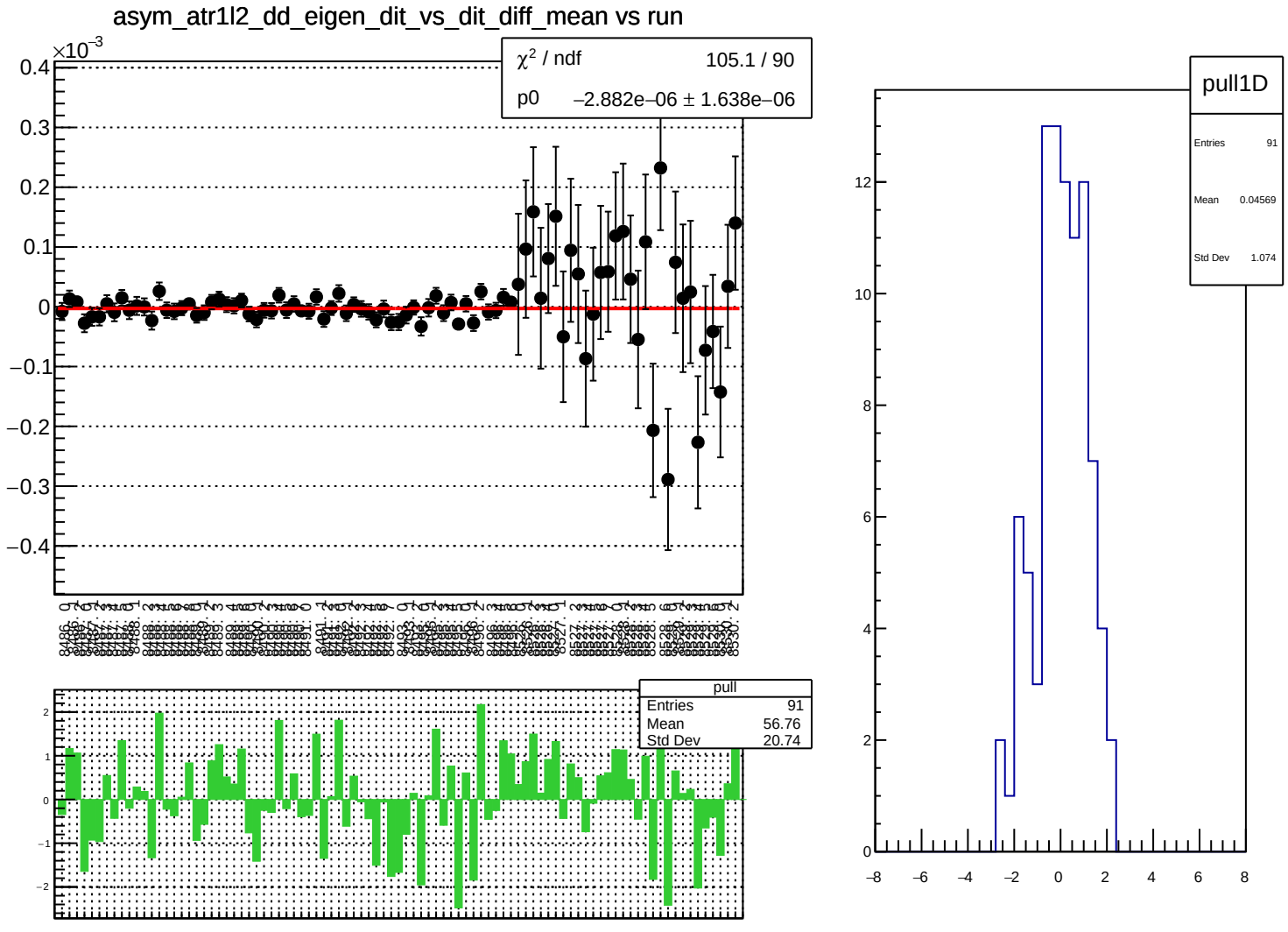

pull1D
Entries 91
Mean −0.08903
Std Dev 0.9226

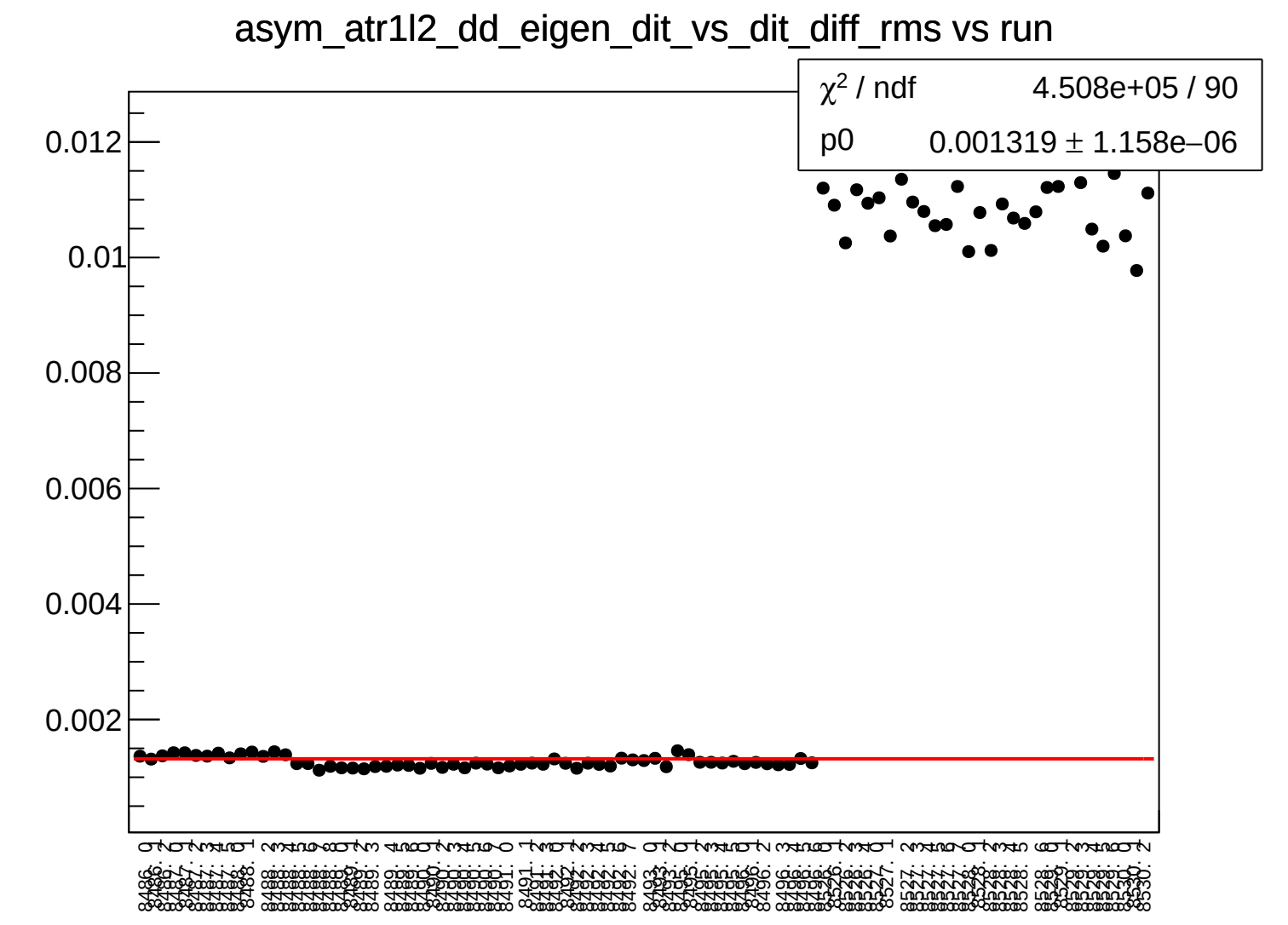

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.495e+05 / 90
p0 389.5 ± 0.3181
1000
900
800
700
600
500
400
300
200
100

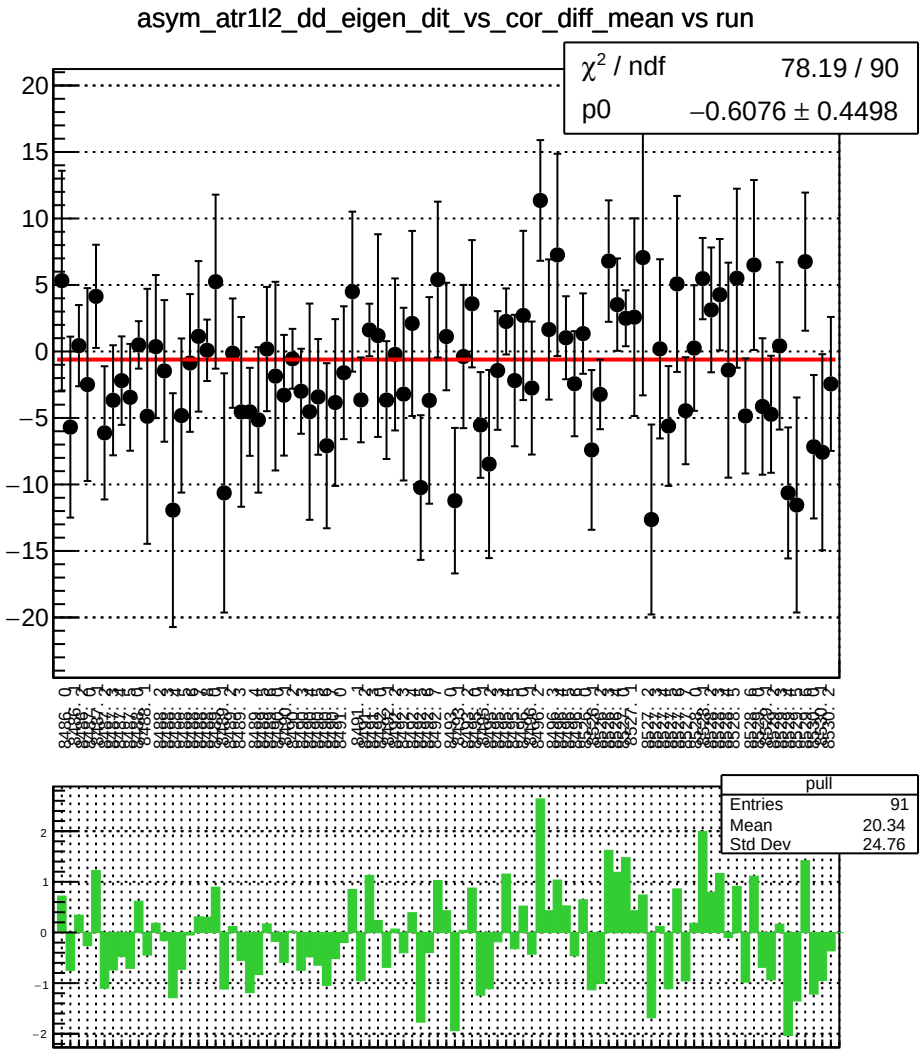

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.19 / 90
p0 −0.6076 ± 0.4498
pull
Entries 91
Mean 20.34
Std Dev 24.76

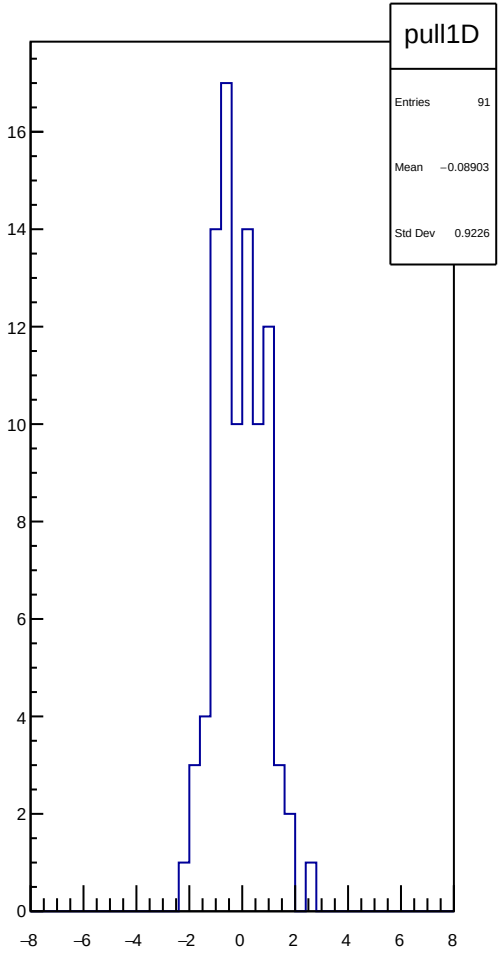

pull1D
Entries 91
Mean −0.08903
Std Dev 0.9226

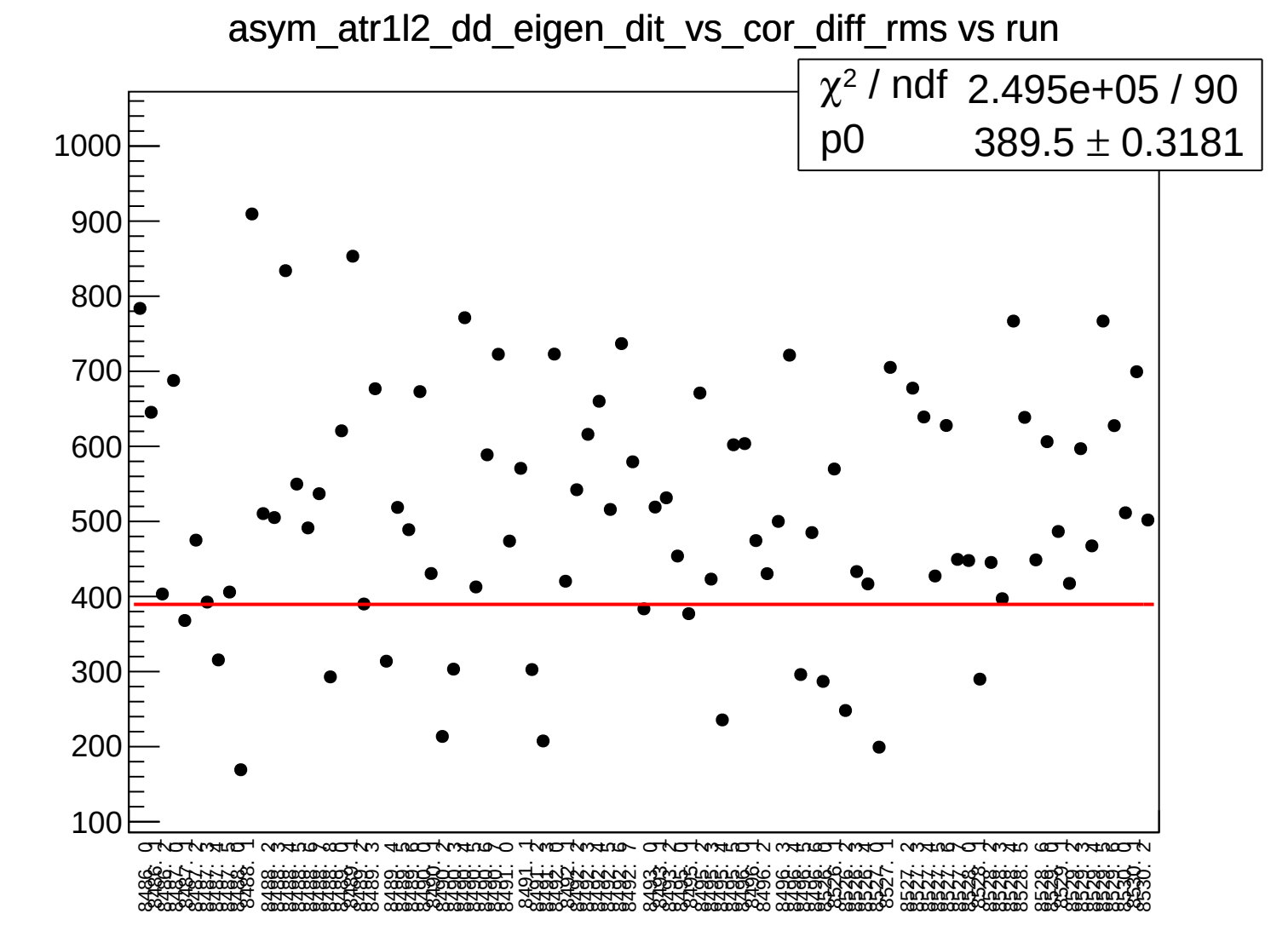

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.495e+05 / 90
p0 389.5 ± 0.3181
1000
900
800
700
600
500
400
300
200
100

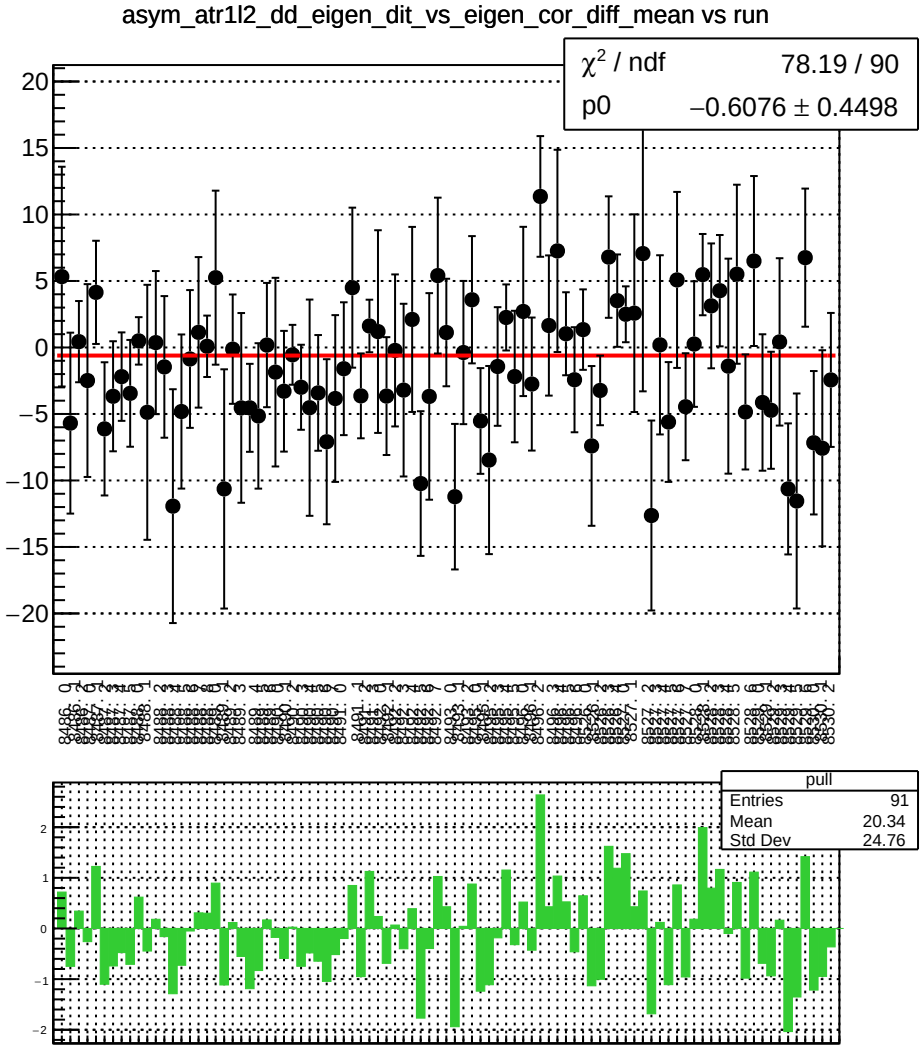

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 105.1 / 90
p0 −2.882e−06 ± 1.638e−06
pull
Entries 91
Mean 56.76
Std Dev 20.74
pull1D
Entries 91
Mean 0.04569
Std Dev 1.074

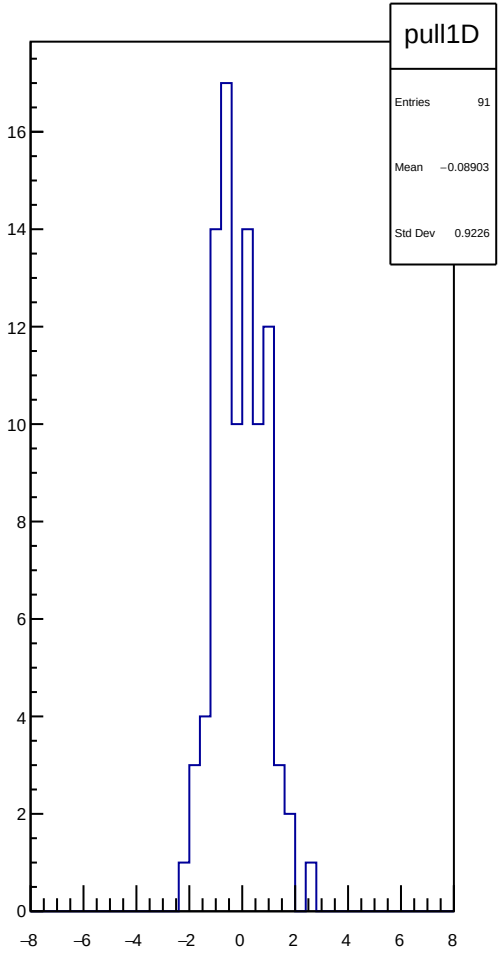

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.508e+05 / 90
p0 0.001319 ± 1.158e−06
0.012
0.01
0.008
0.006
0.004
0.002

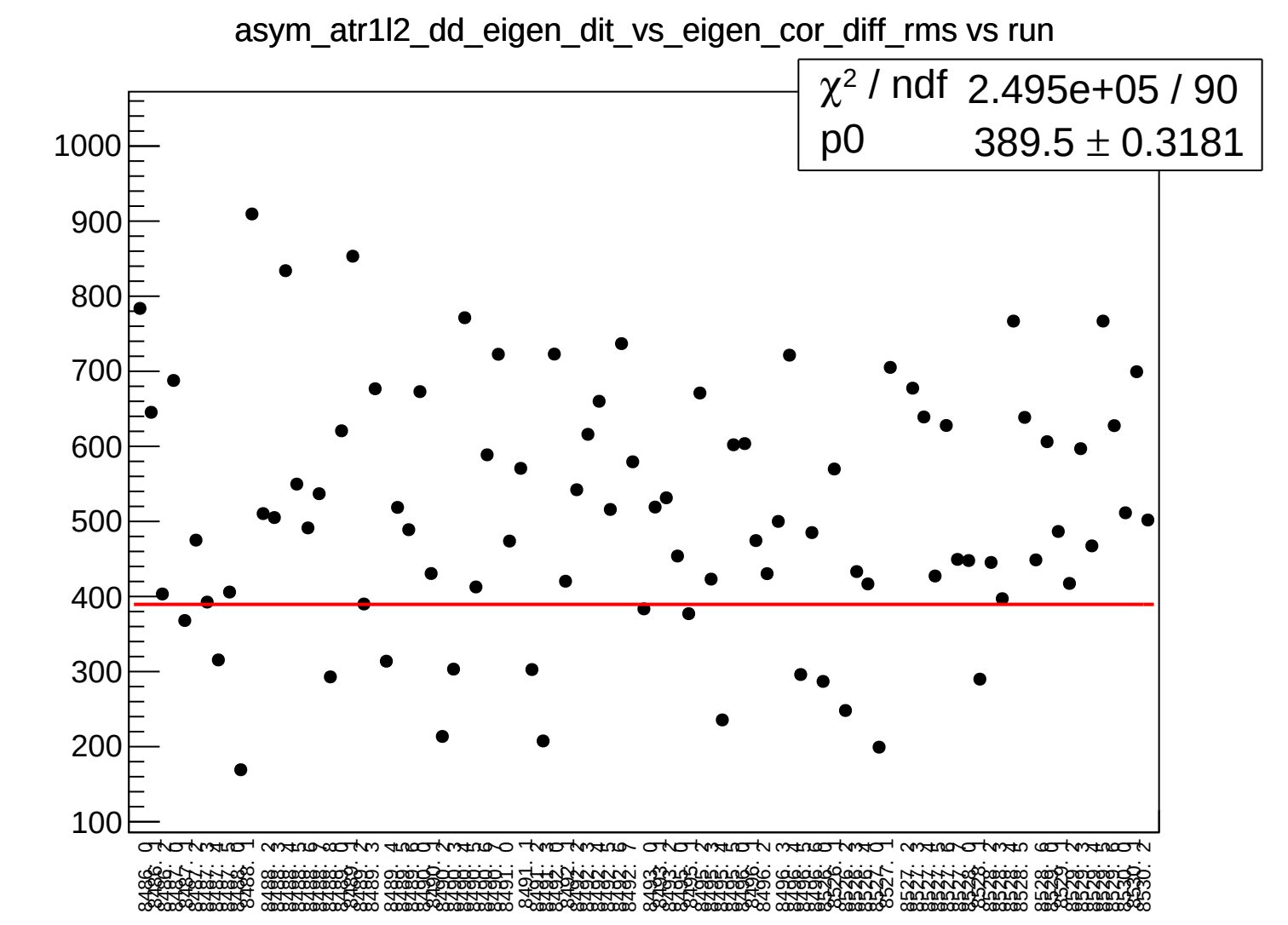

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.19 / 90
p0 −0.6076 ± 0.4498
pull
Entries 91
Mean 20.34
Std Dev 24.76

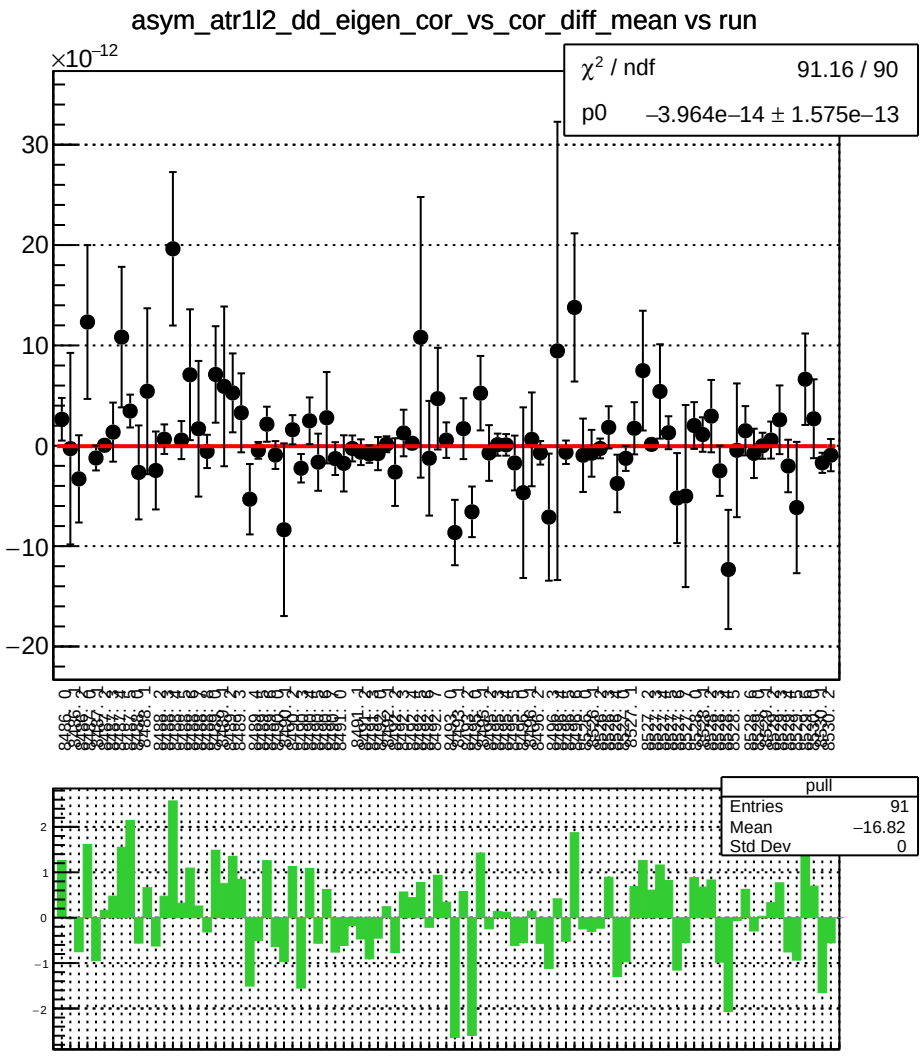

pull1D
Entries 91
Mean −0.08903
Std Dev 0.9226

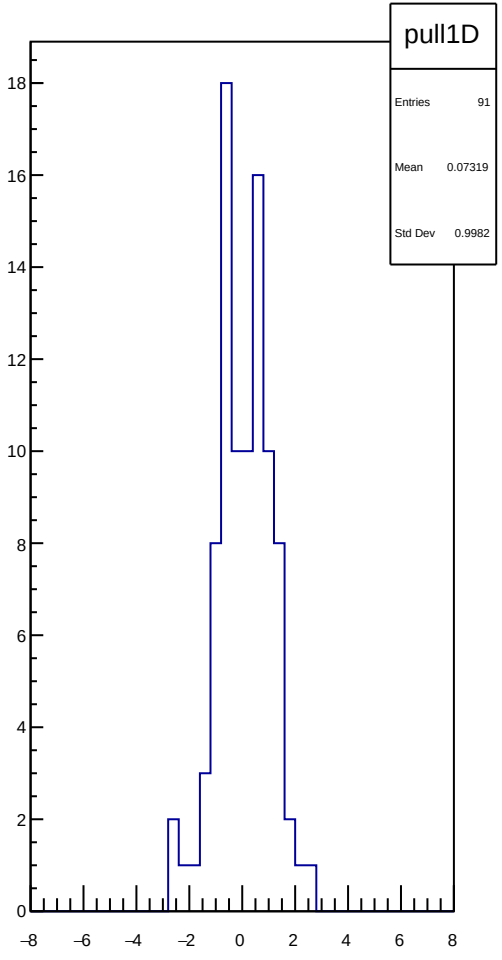

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.495e+05 / 90
p0 389.5 ± 0.3181
1000
900
800
700
600
500
400
300
200
100

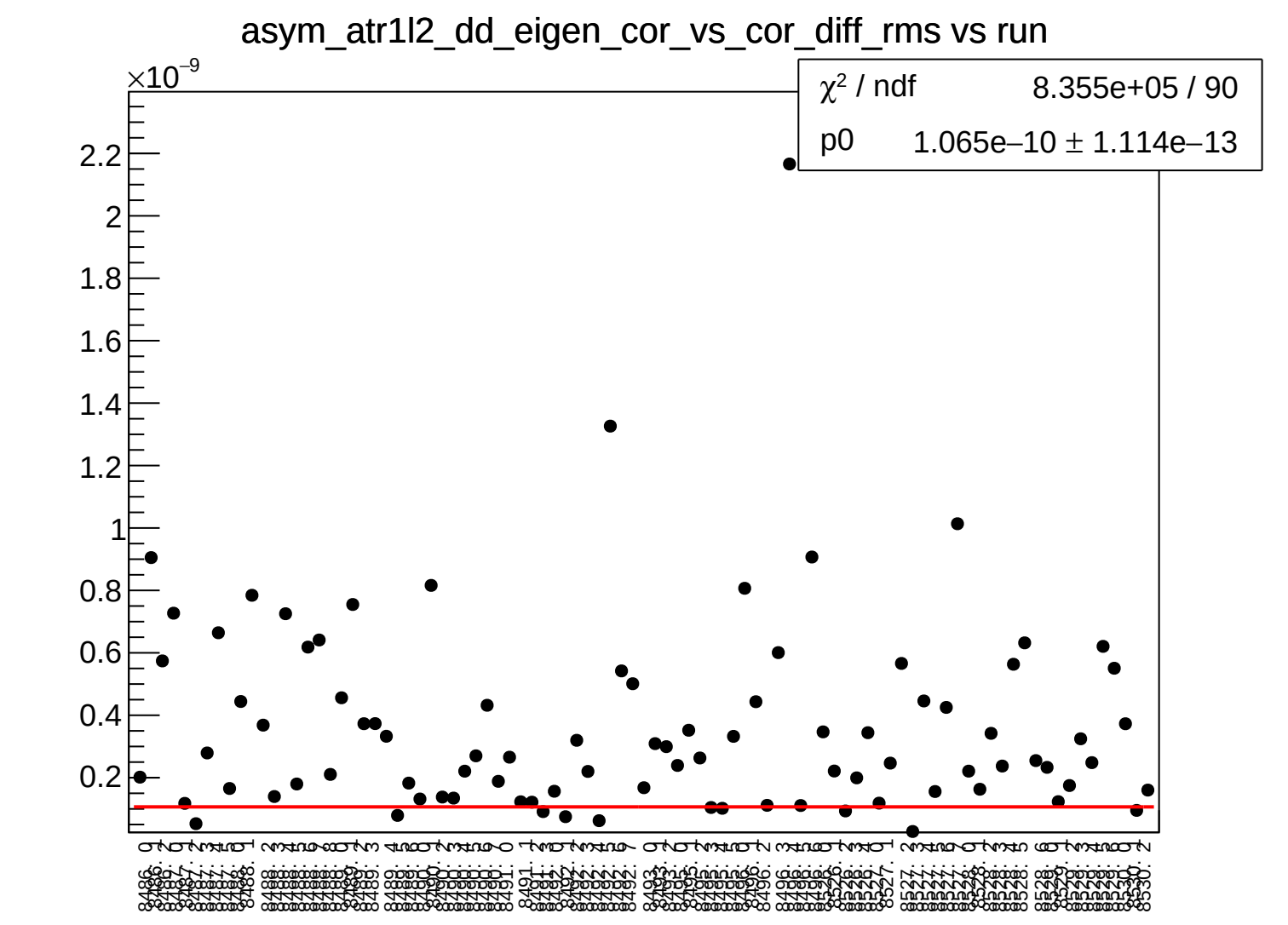

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.19 / 90
p0 −0.6076 ± 0.4498
pull
Entries 91
Mean 20.34
Std Dev 24.76

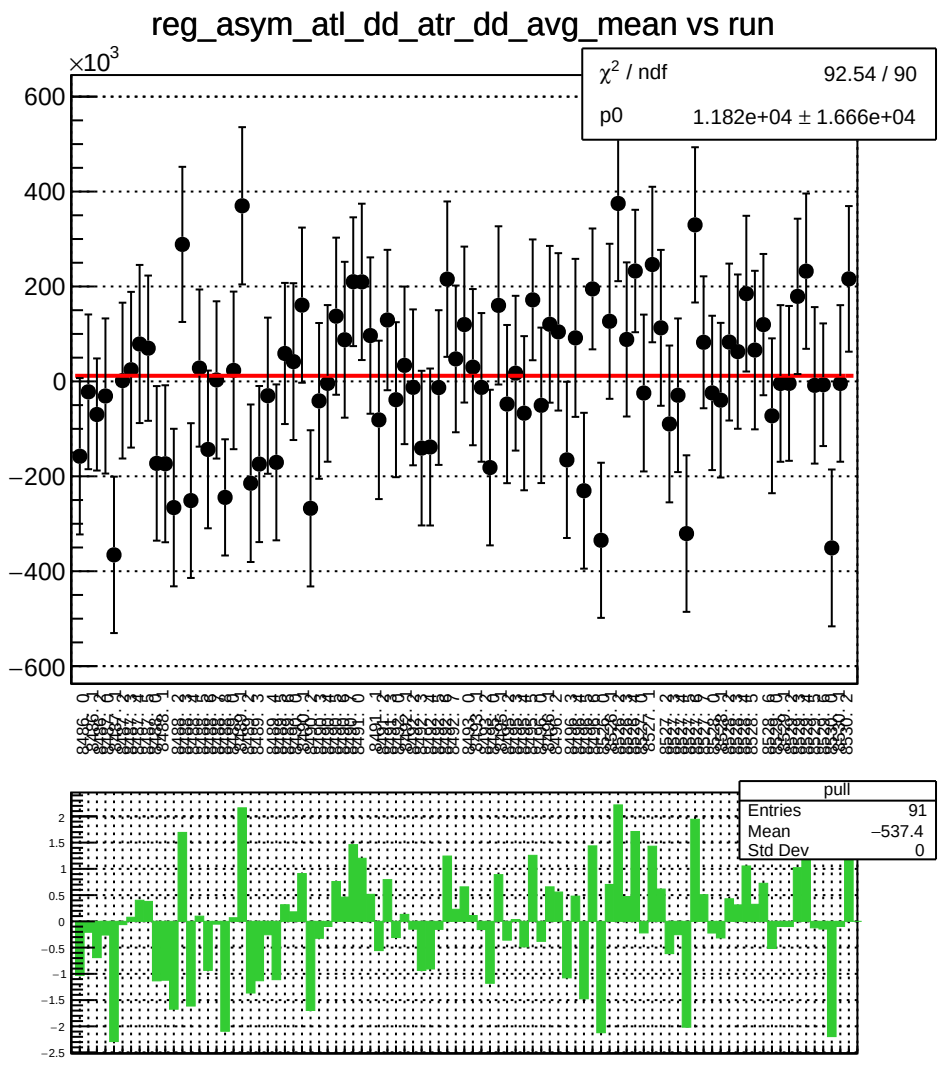

pull1D
Entries 91
Mean −0.08903
Std Dev 0.9226

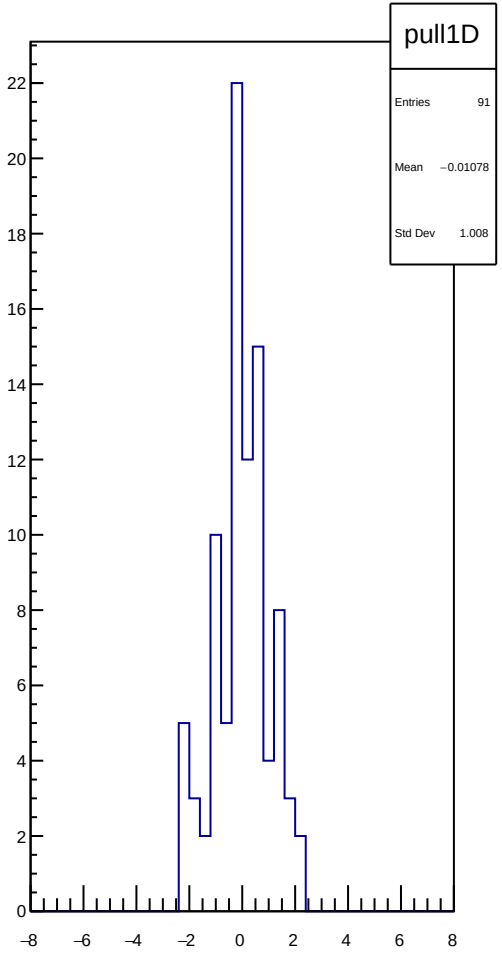

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.495e+05 / 90
p0 389.5 ± 0.3181
1000
900
800
700
600
500
400
300
200
100

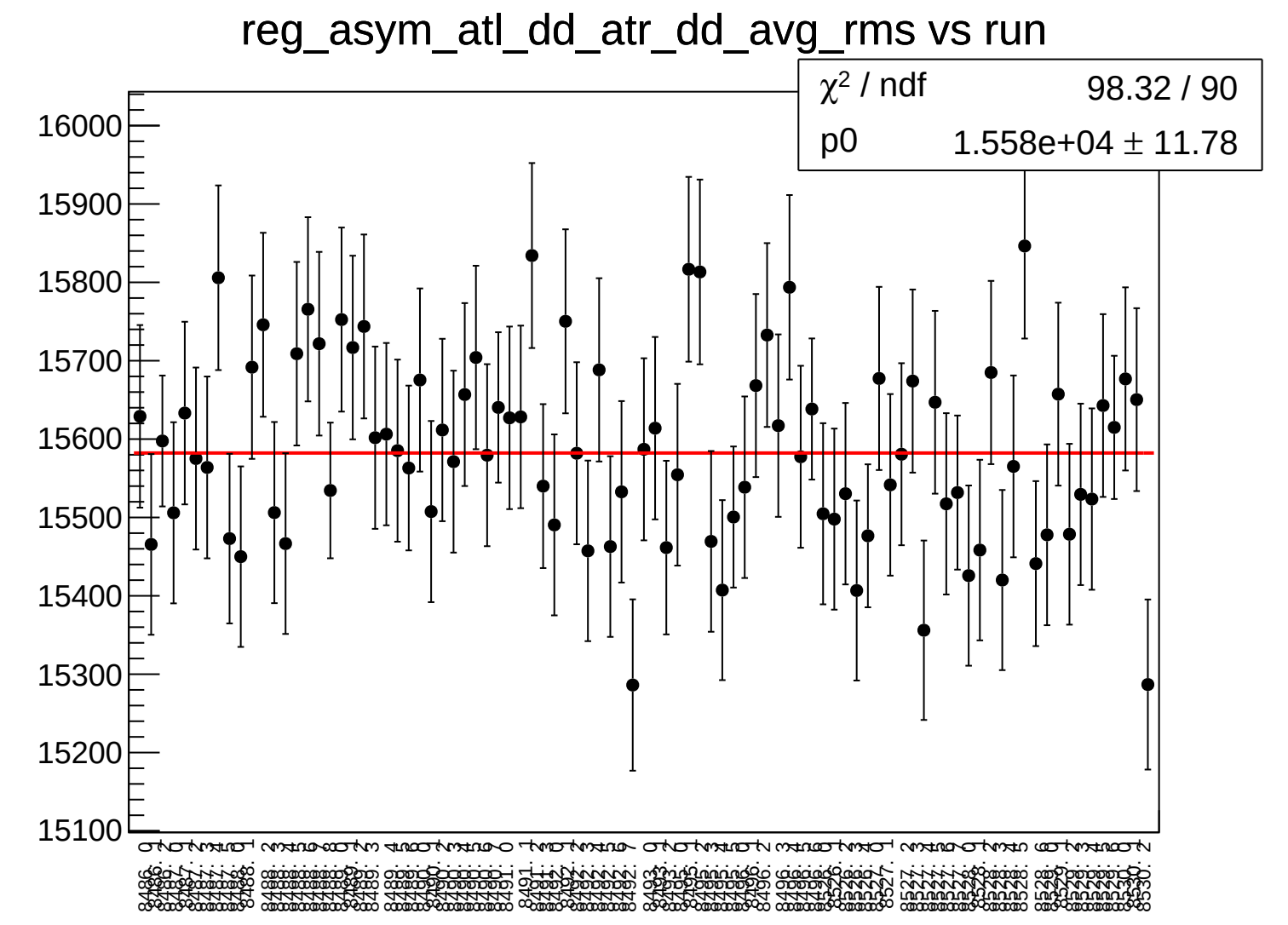

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.16 / 90
p0 −3.964e−14 ± 1.575e−13
pull
Entries 91
Mean −16.82
Std Dev 0

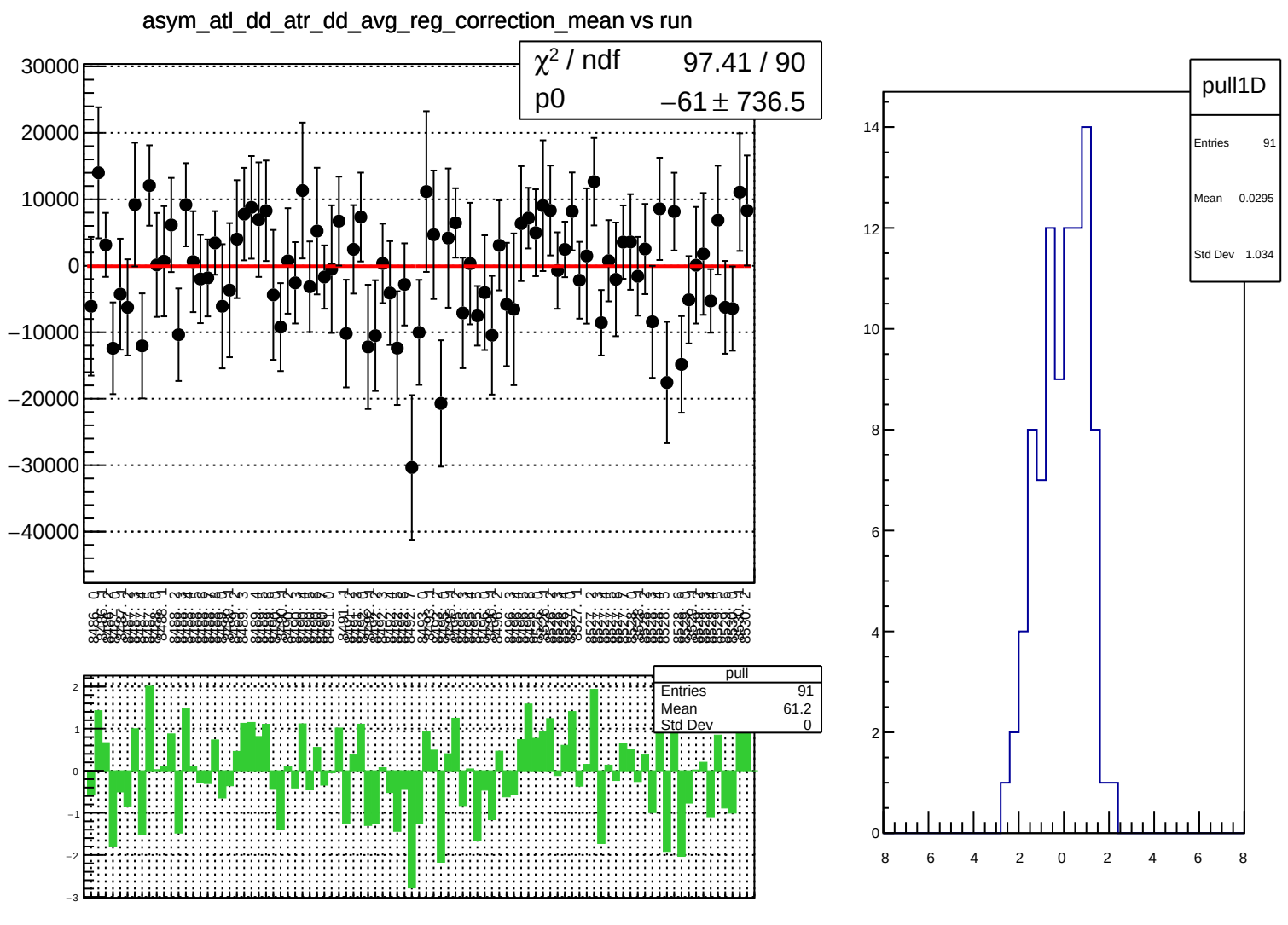

pull1D
Entries 91
Mean 0.07319
Std Dev 0.9982

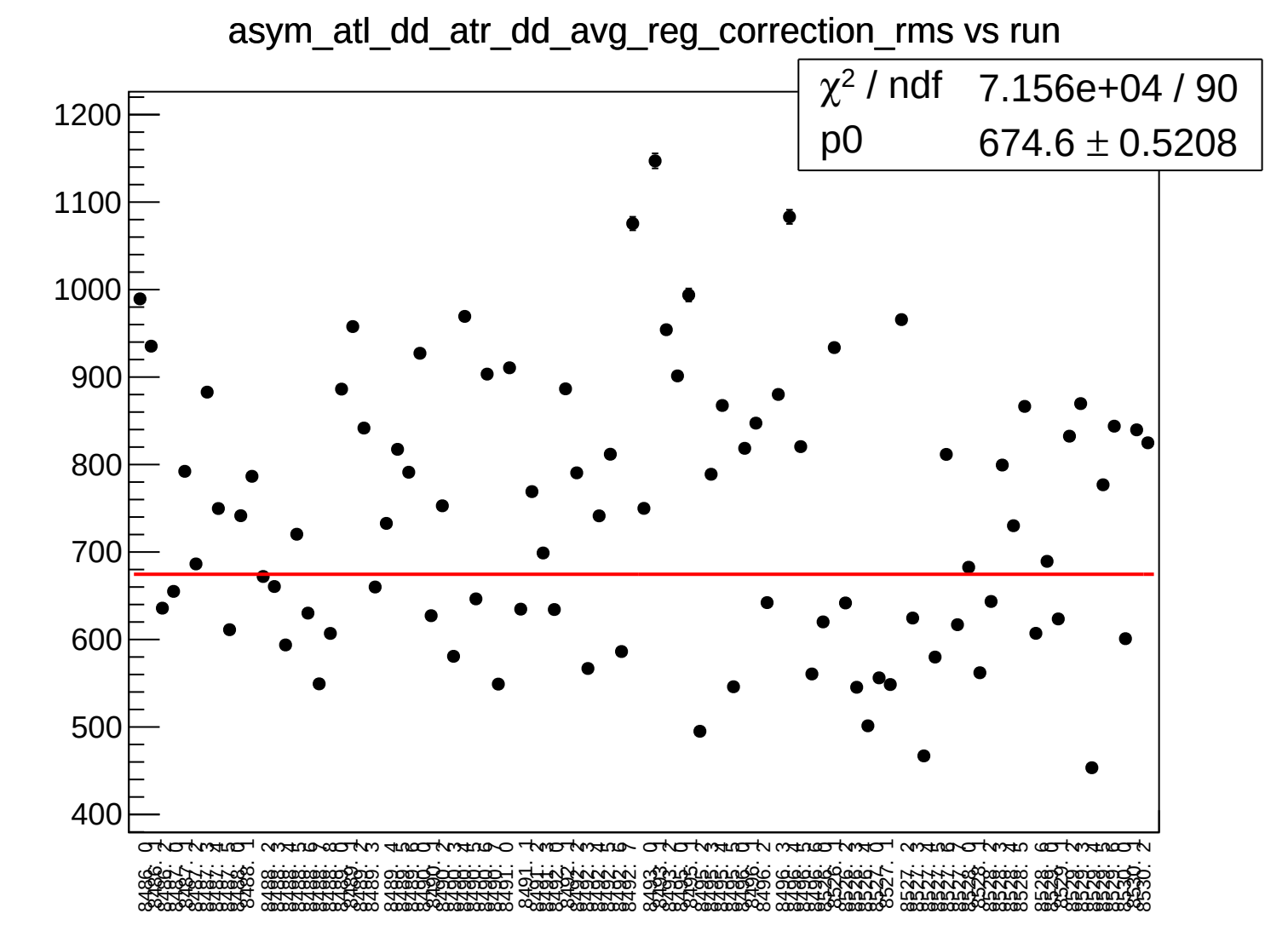

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.355e+05 / 90
p0 1.065e−10 ± 1.114e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

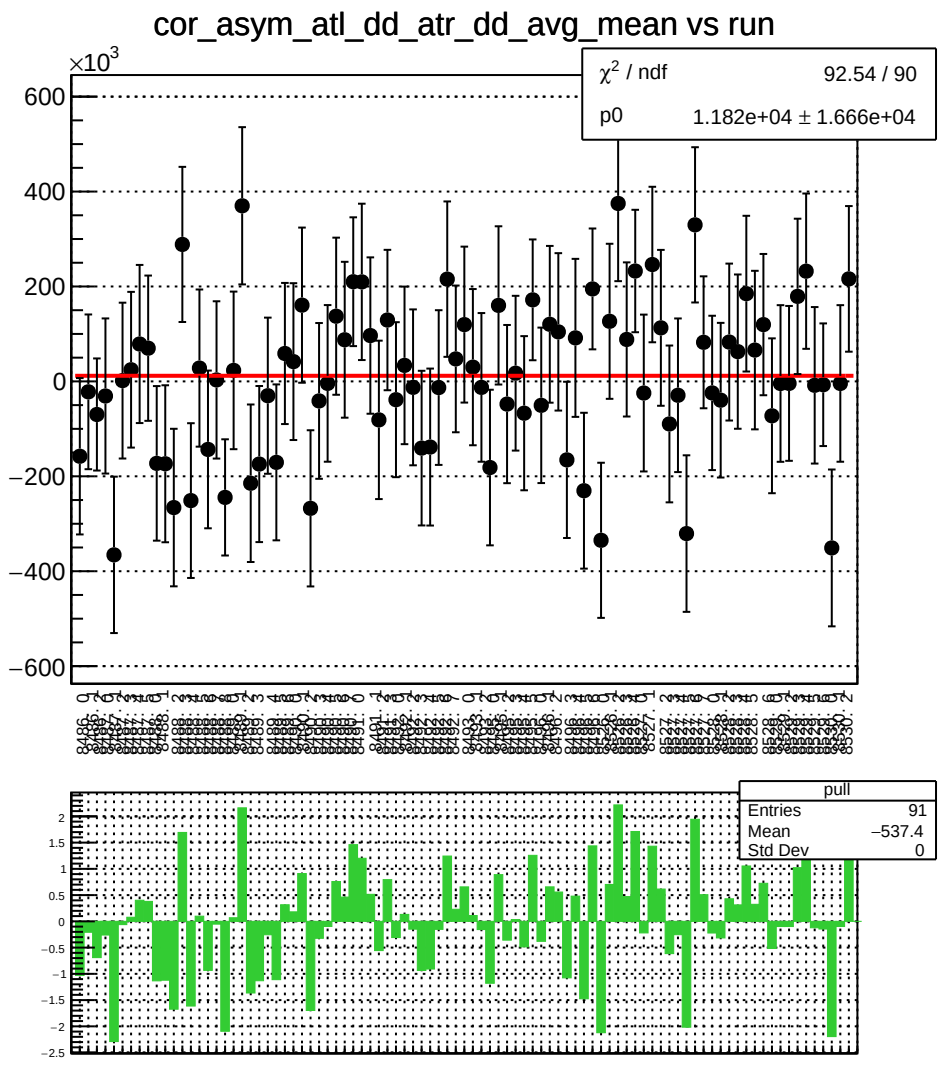

reg_asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 92.54 / 90
p0 1.182e+04 ± 1.666e+04
pull
Entries 91
Mean −537.4
Std Dev 0

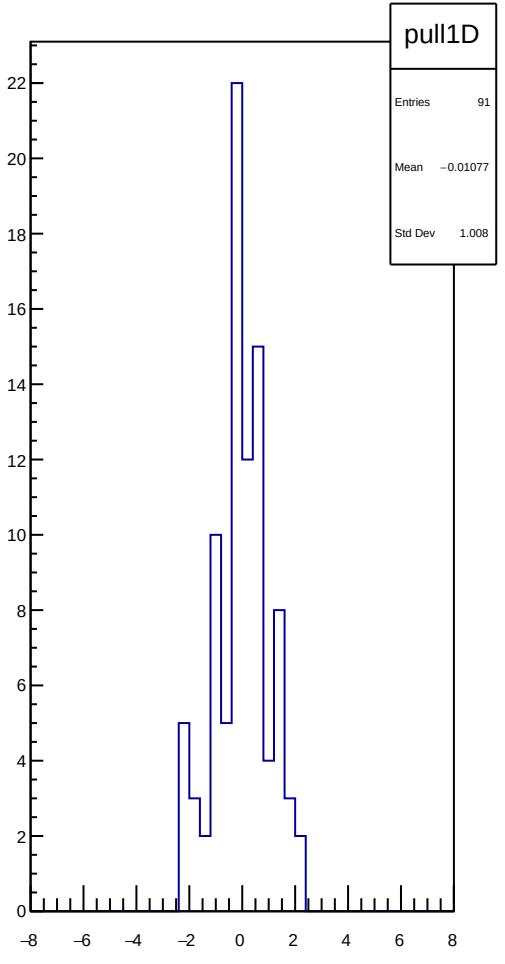

pull1D
Entries 91
Mean −0.01078
Std Dev 1.008

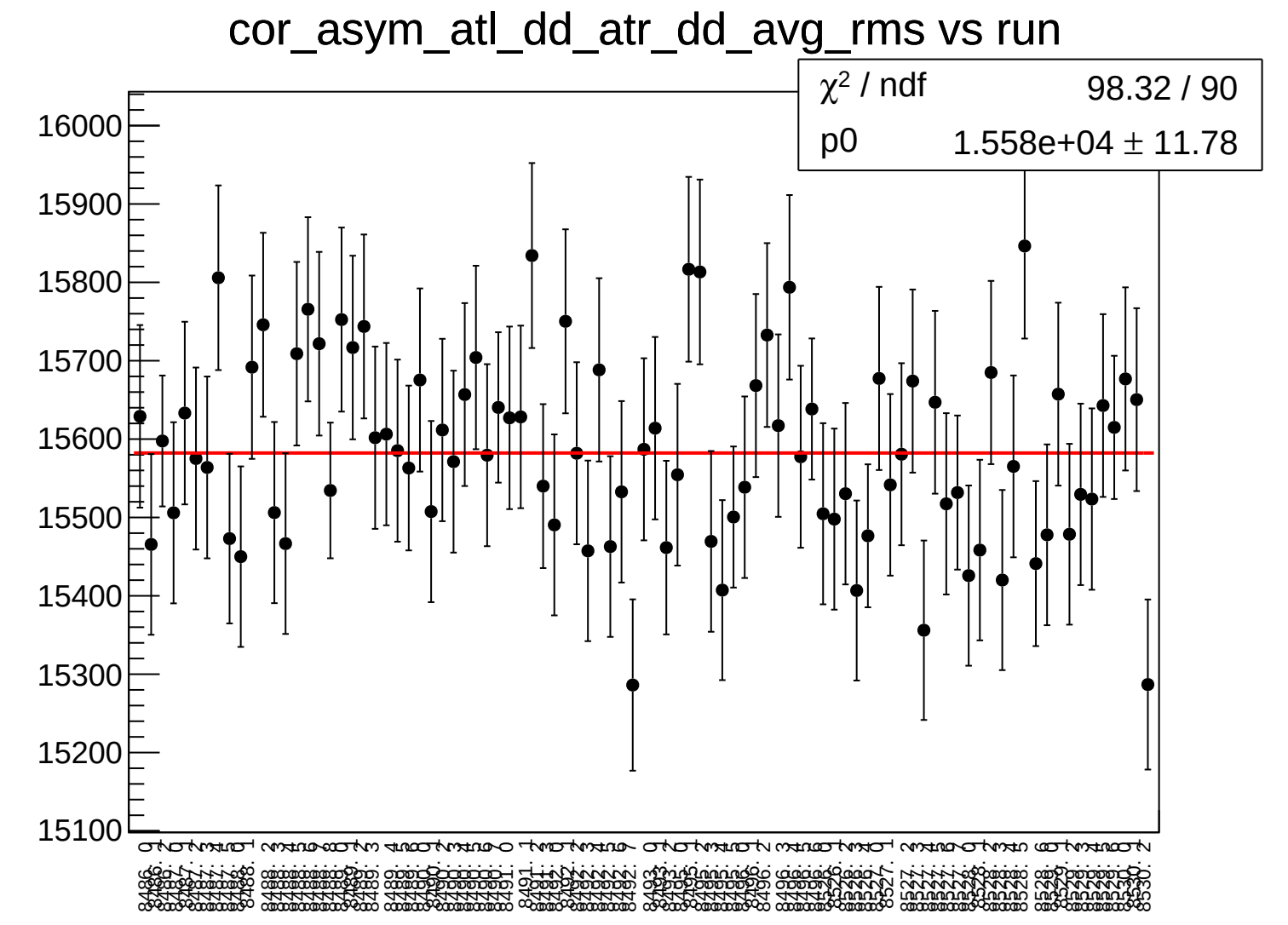

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 98.32 / 90
p0 1.558e+04 ± 11.78
16000
15900
15800
15700
15600
15500
15400
15300
15200
15100

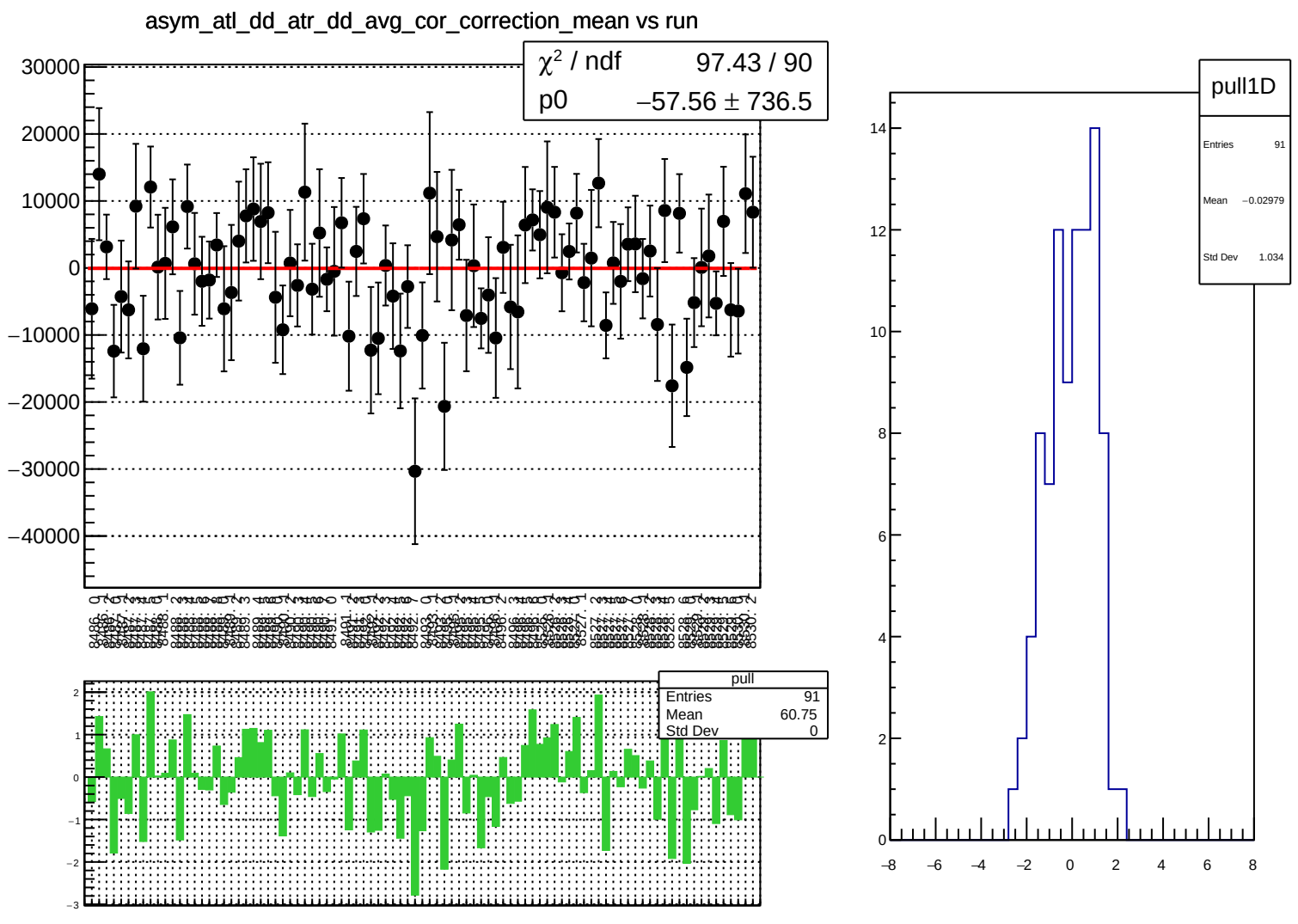

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
χ² / ndf 97.41 / 90
p0 −61 ± 736.5
pull
Entries 91
Mean 61.2
Std Dev 0
pull1D
Entries 91
Mean −0.0295
Std Dev 1.034

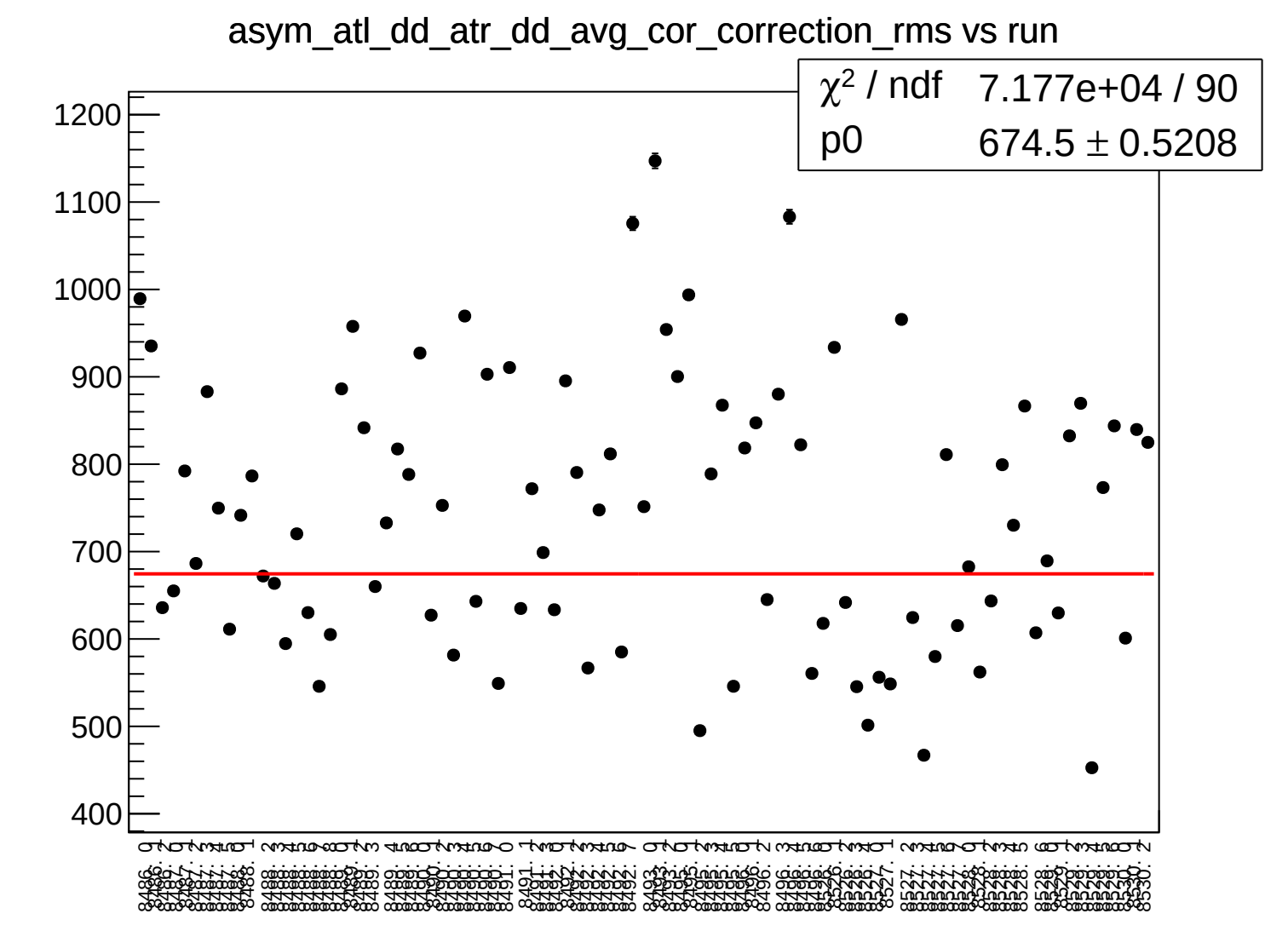

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 7.156e+04 / 90
p0 674.6 ± 0.5208
1200
1100
1000
900
800
700
600
500
400

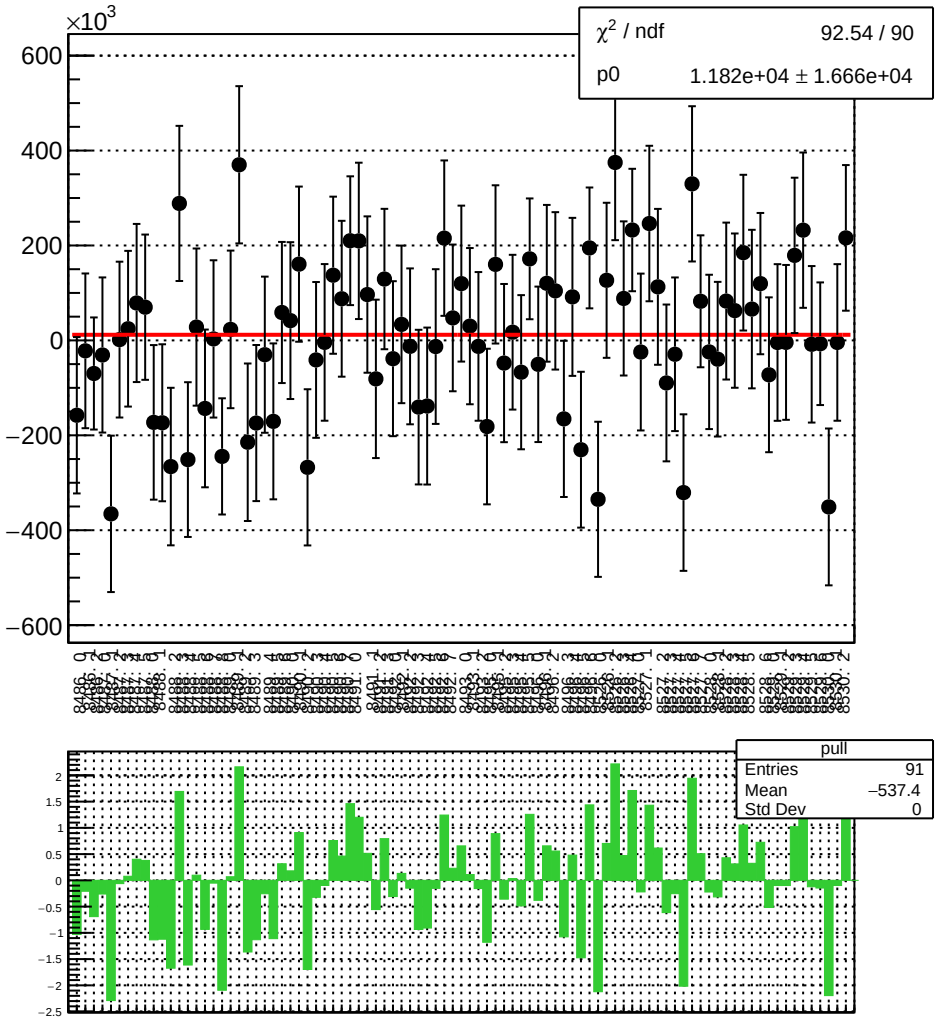

cor_asym_atl_dd_atr_dd_avg_mean vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 92.54 / 90
p0 1.182e+04 ± 1.666e+04
pull
Entries 91
Mean −537.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

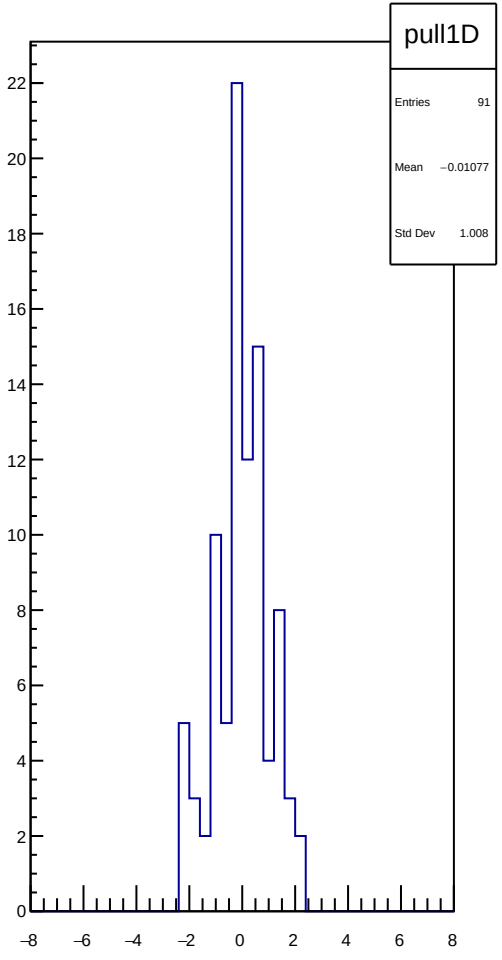

pull1D
Entries 91
Mean −0.01077
Std Dev 1.008
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

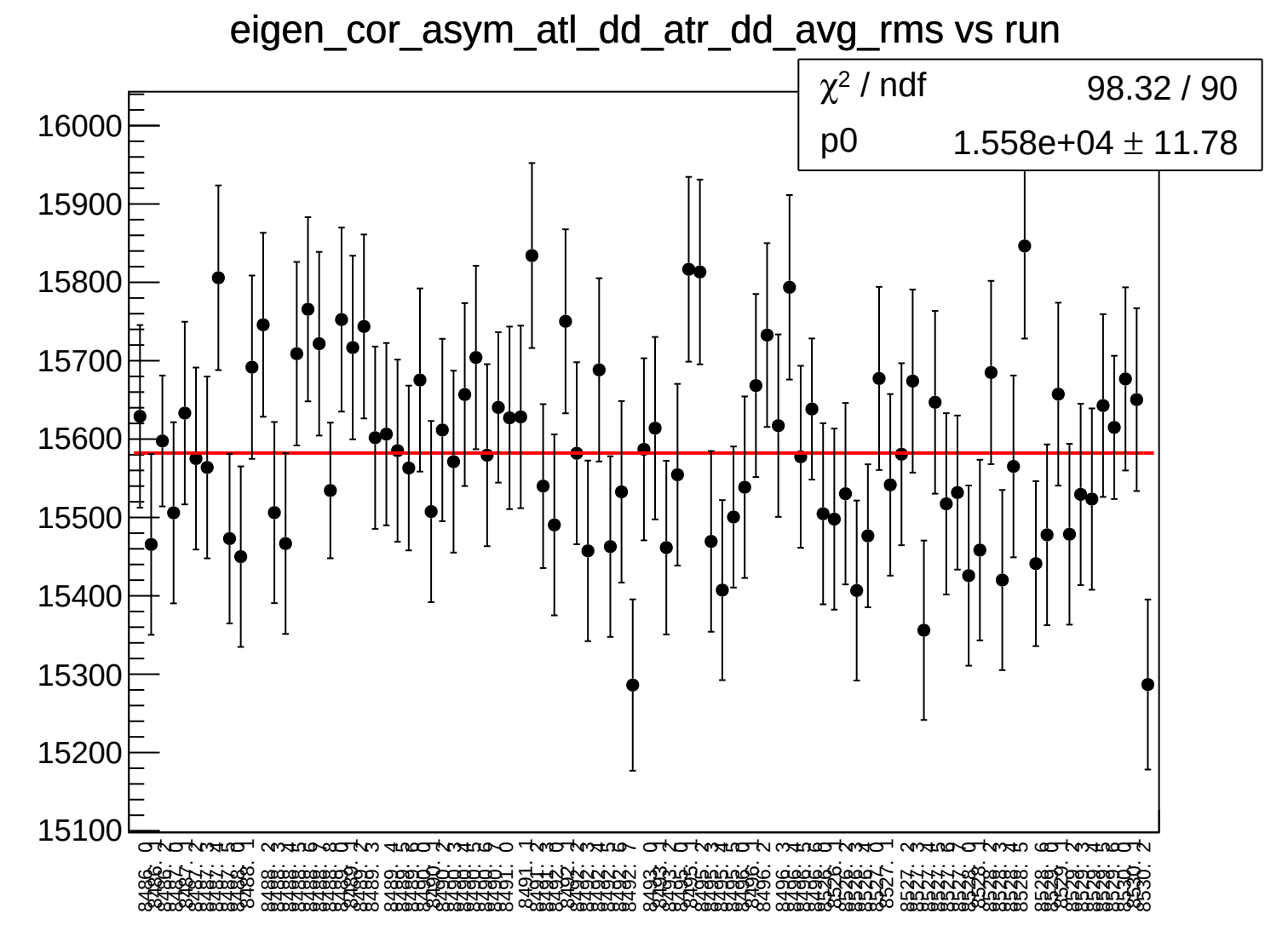

cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 98.32 / 90
p0 1.558e+04 ± 11.78
16000
15900
15800
15700
15600
15500
15400
15300
15200
15100

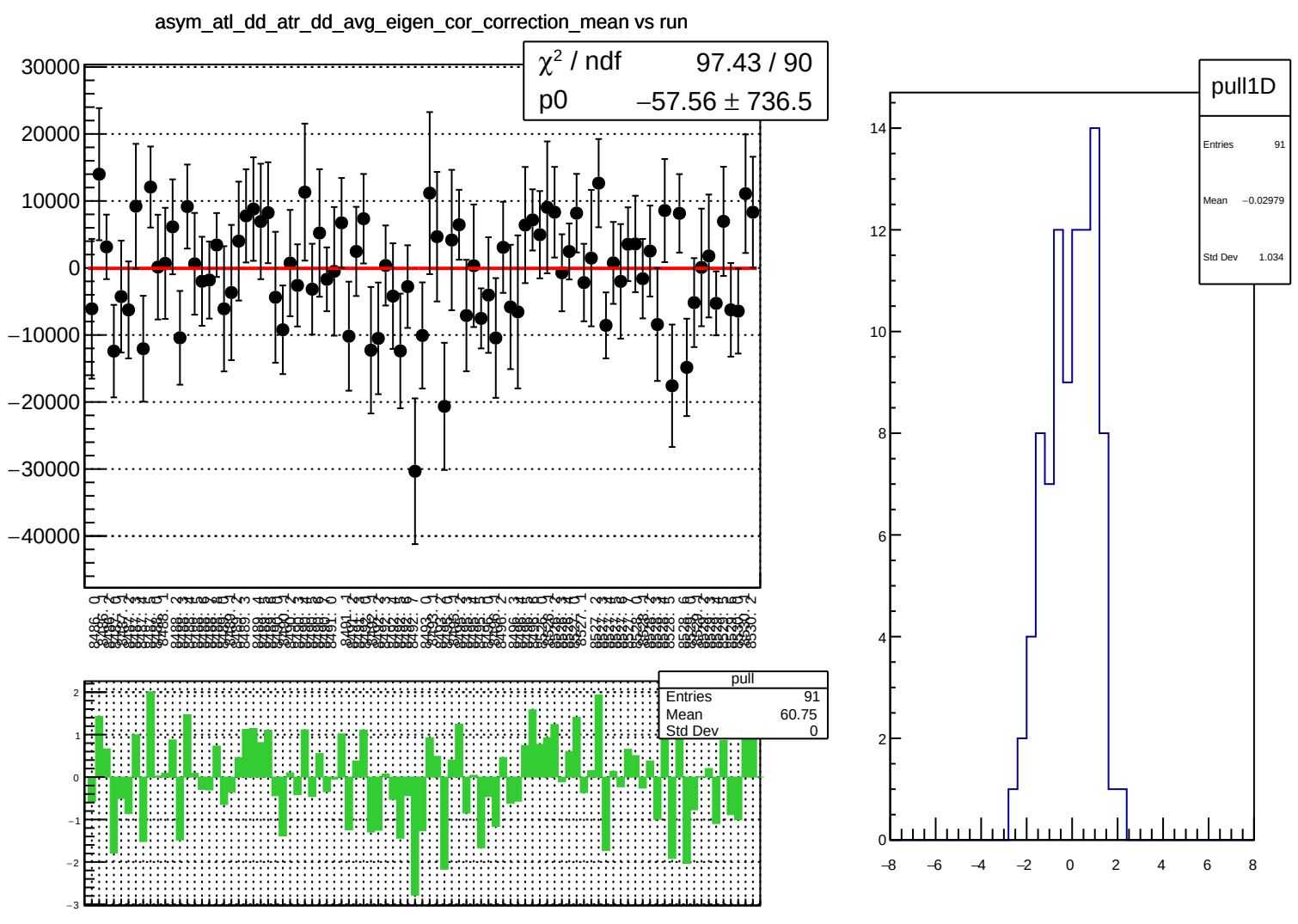

asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
χ² / ndf 97.43 / 90
p0 −57.56 ± 736.5
pull
Entries 91
Mean 60.75
Std Dev 0
pull1D
Entries 91
Mean −0.02979
Std Dev 1.034

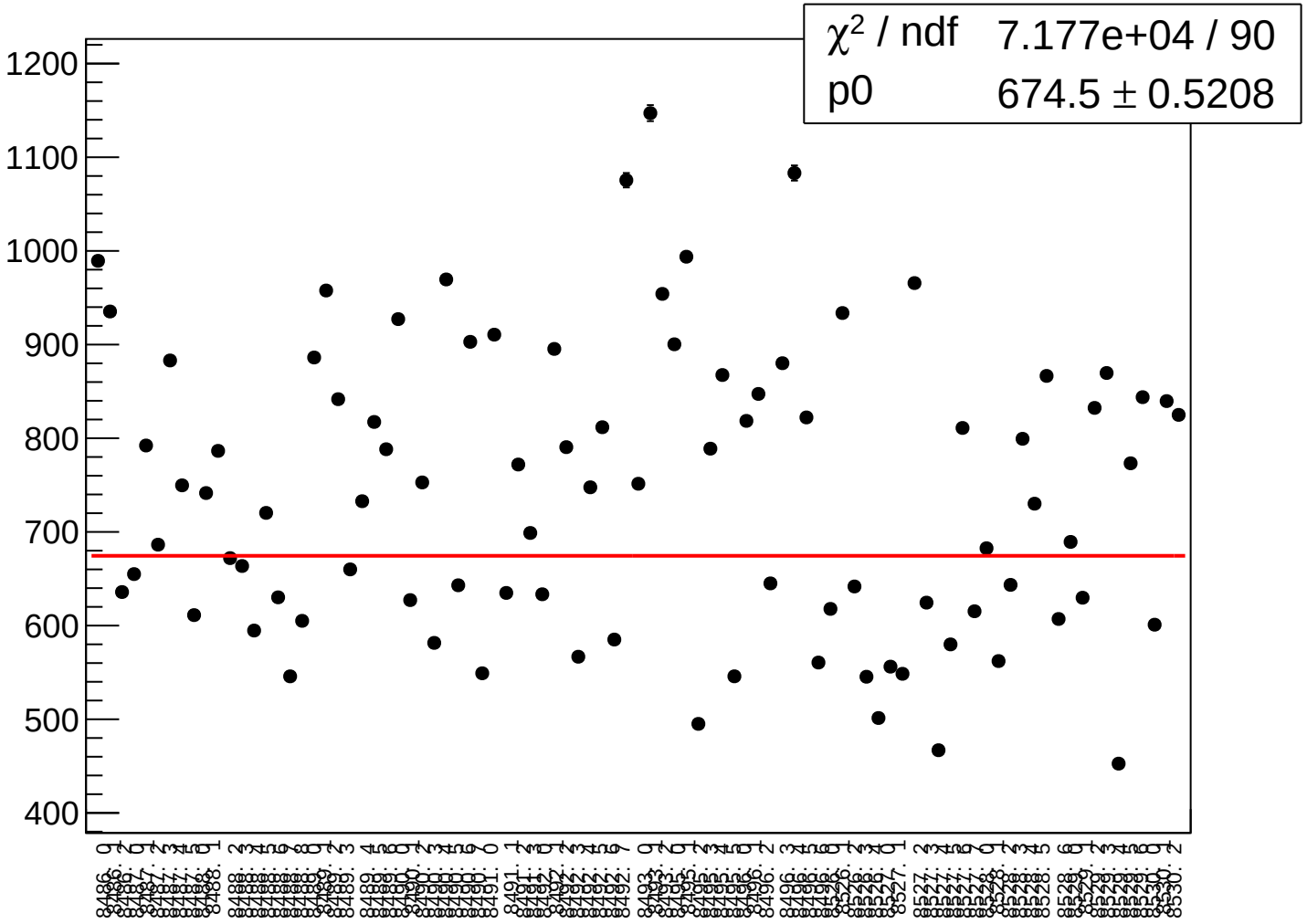

asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ² / ndf 7.177e+04 / 90
p0 674.5 ± 0.5208
1200
1100
1000
900
800
700
600
500
400

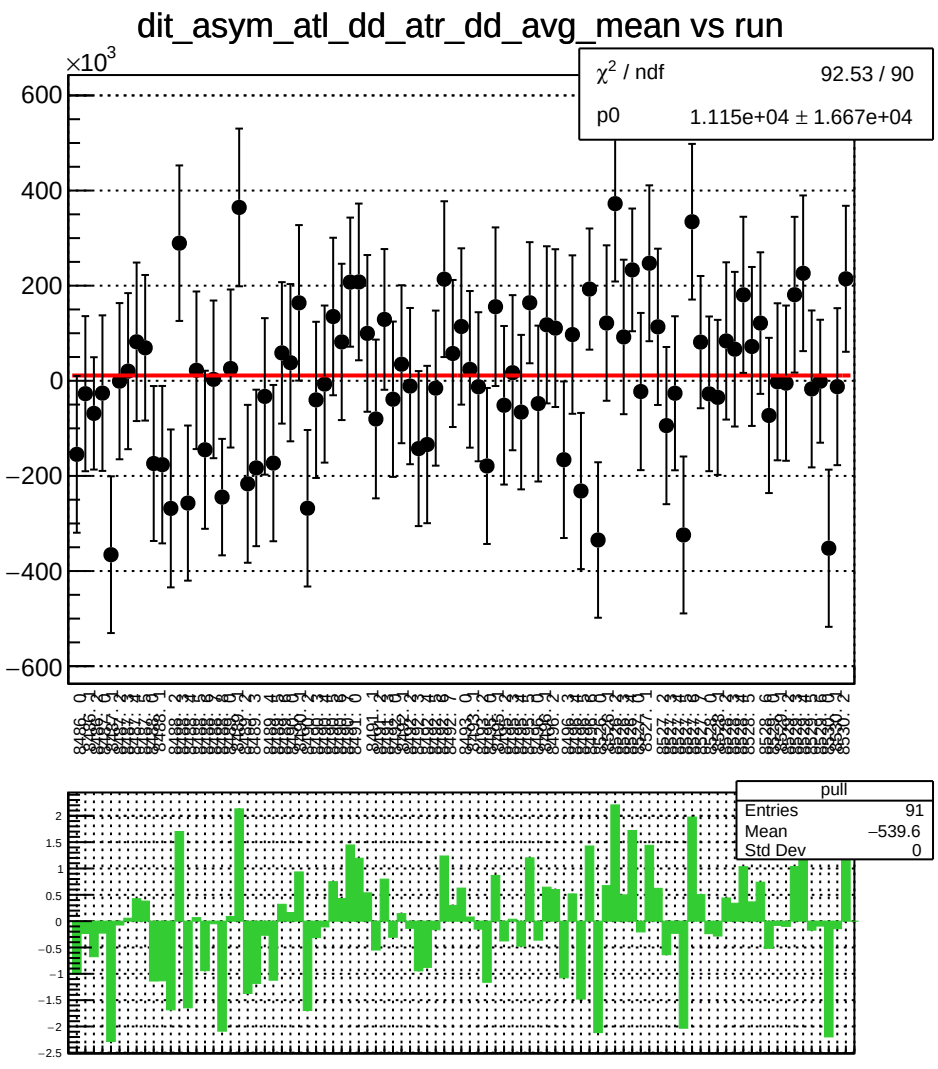

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 92.54 / 90
p0 1.182e+04 ± 1.666e+04
pull
Entries 91
Mean −537.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

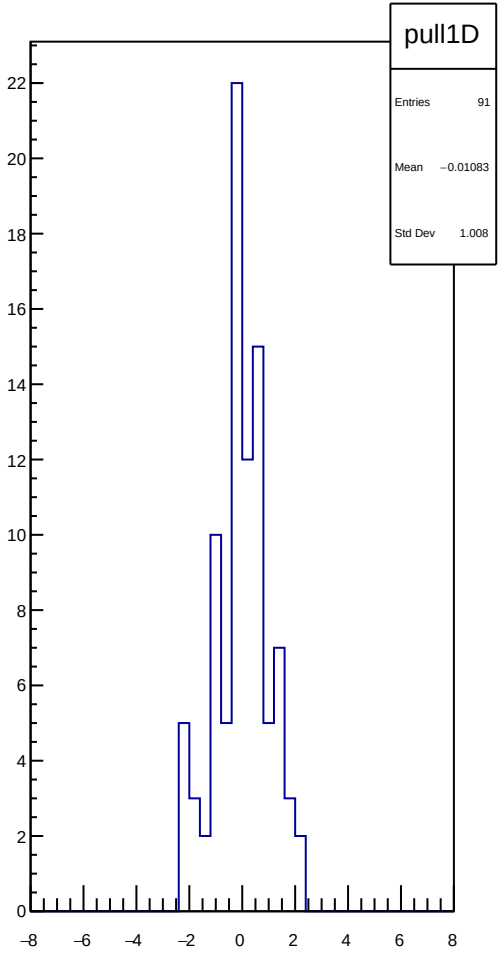

pull1D
Entries 91
Mean −0.01077
Std Dev 1.008
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

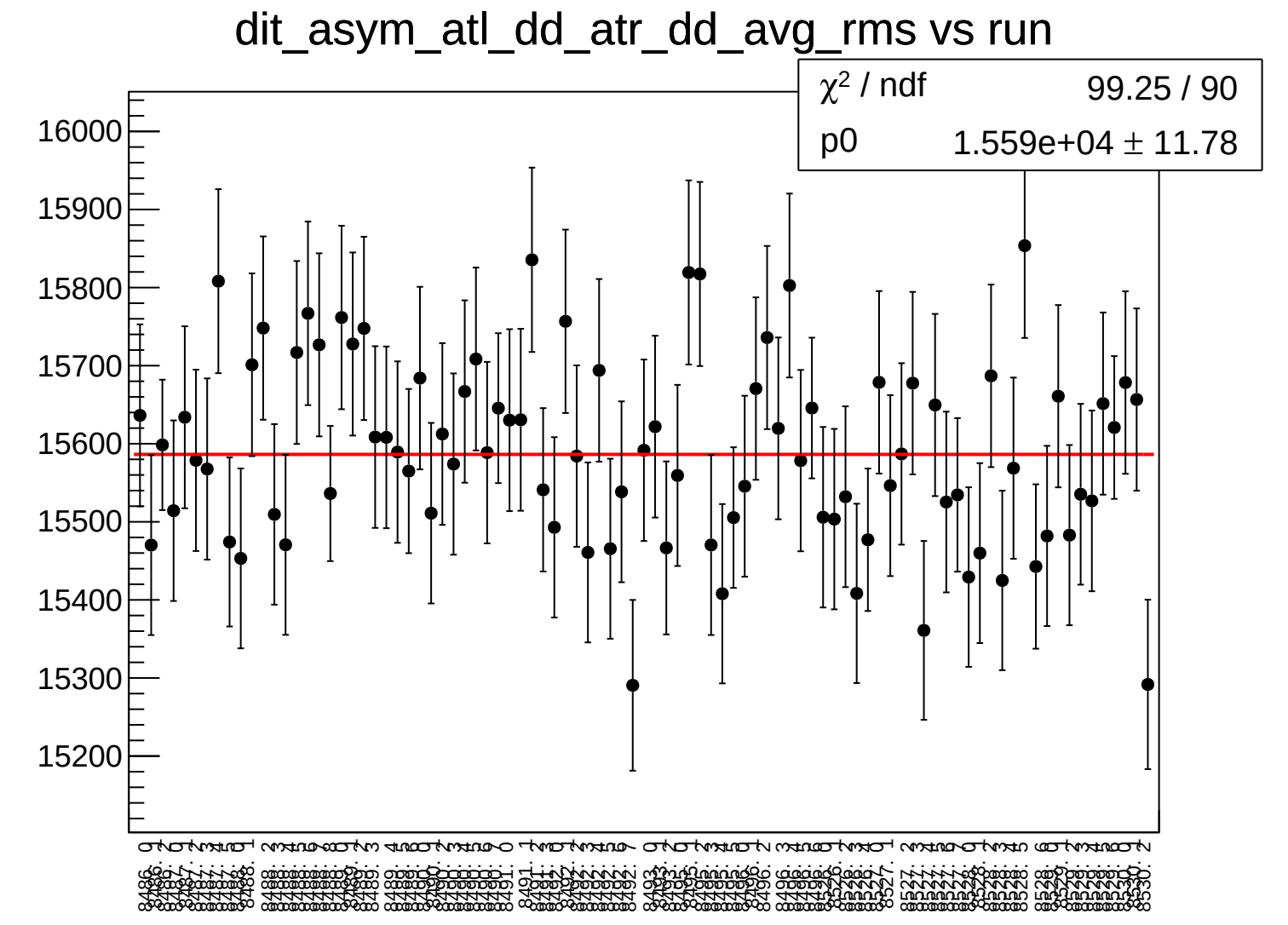

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 98.32 / 90
p0 1.558e+04 ± 11.78
16000
15900
15800
15700
15600
15500
15400
15300
15200
15100

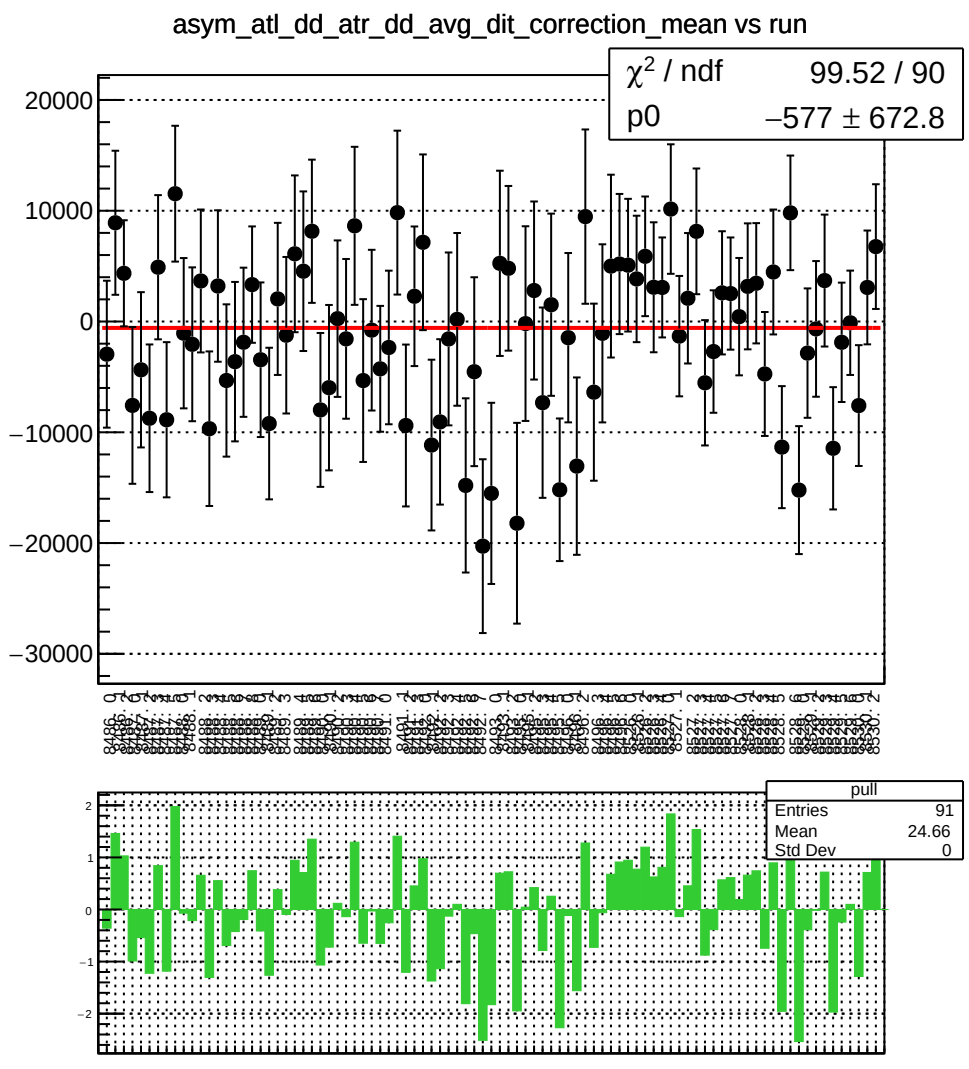

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 97.43 / 90
p0 −57.56 ± 736.5
pull
Entries 91
Mean 60.75
Std Dev 0
pull1D
Entries 91
Mean −0.02979
Std Dev 1.034

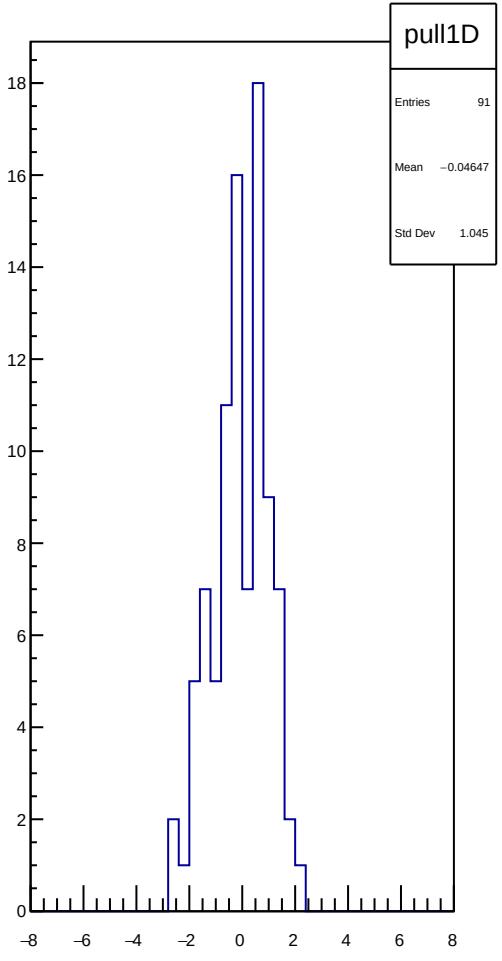

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 7.177e+04 / 90
p0 674.5 ± 0.5208
1200
1100
1000
900
800
700
600
500
400

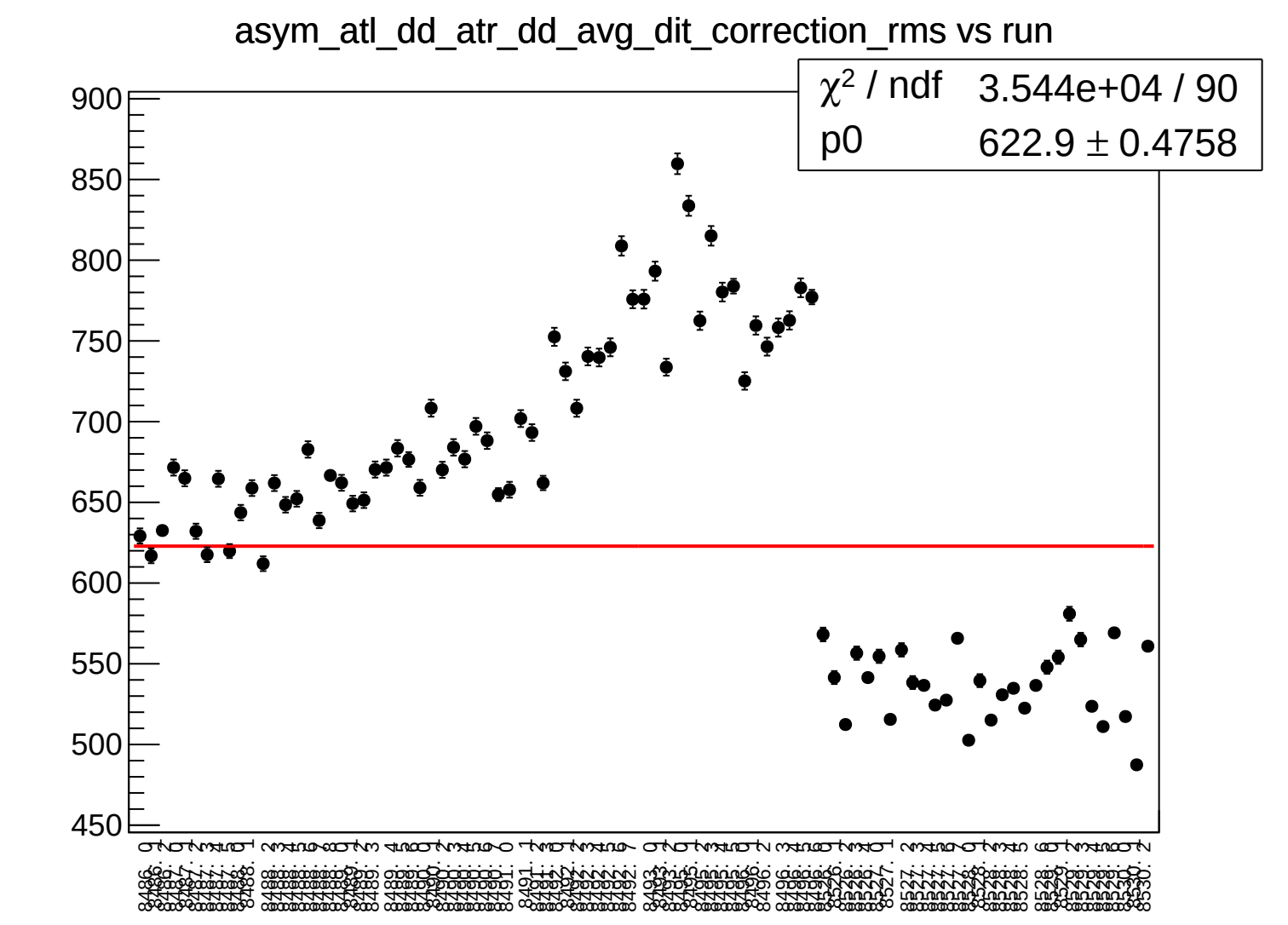

dit_asym_atl_dd_atr_dd_avg_mean vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 92.53 / 90
p0 1.115e+04 ± 1.667e+04
pull
Entries 91
Mean −539.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

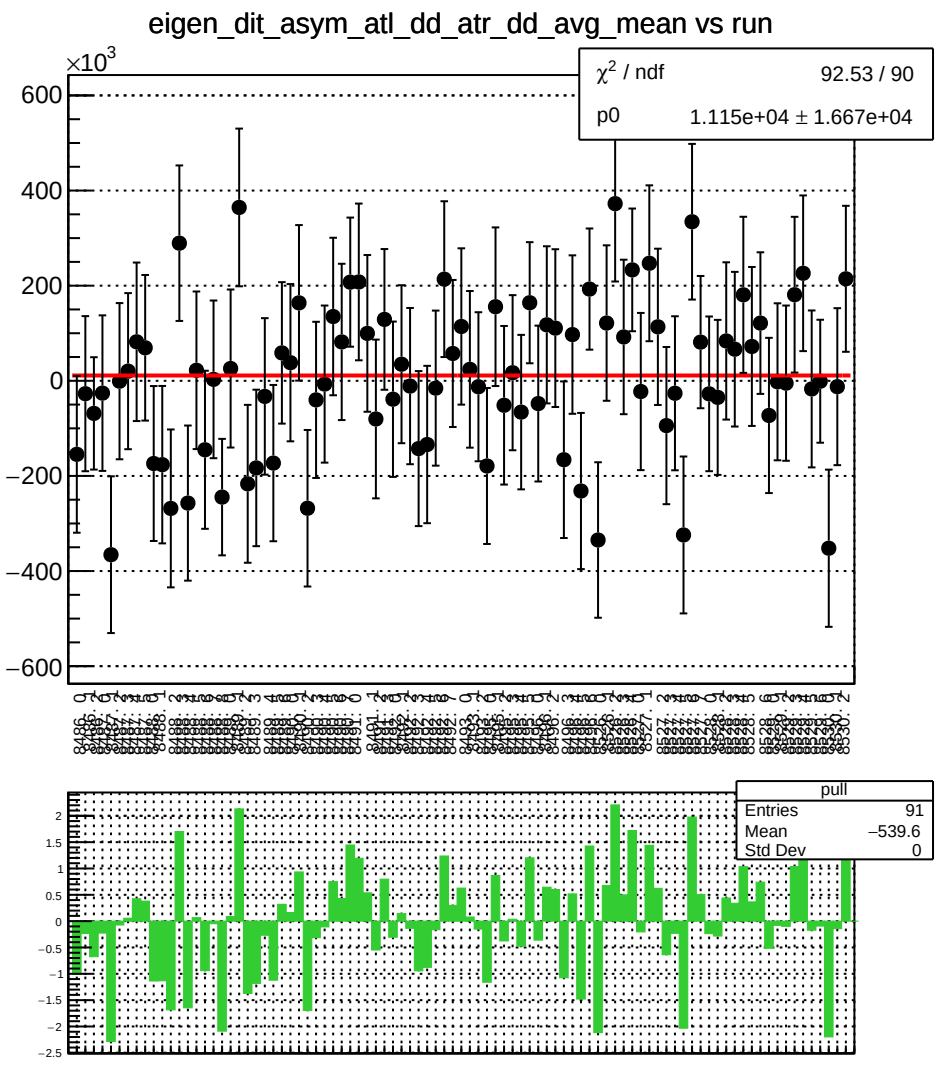

pull1D
Entries 91
Mean −0.01083
Std Dev 1.008
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

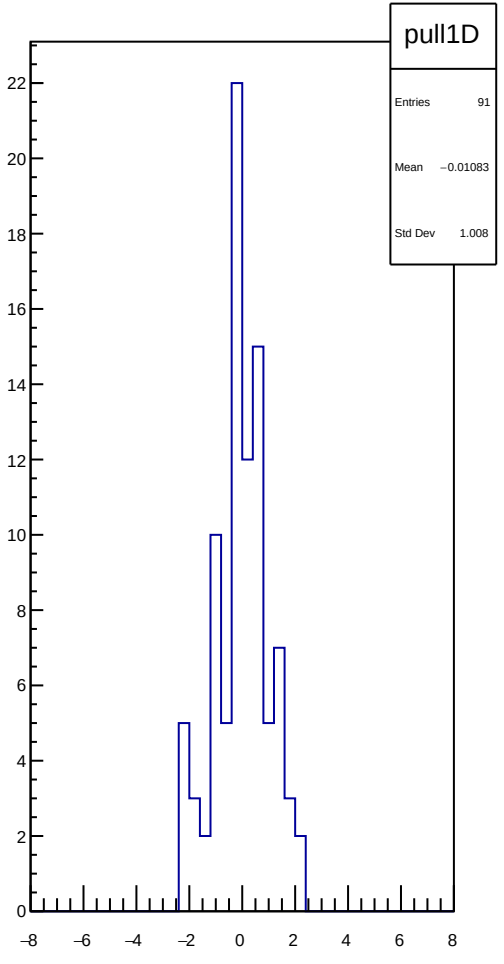

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 99.25 / 90
p0 1.559e+04 ± 11.78
16000
15900
15800
15700
15600
15500
15400
15300
15200

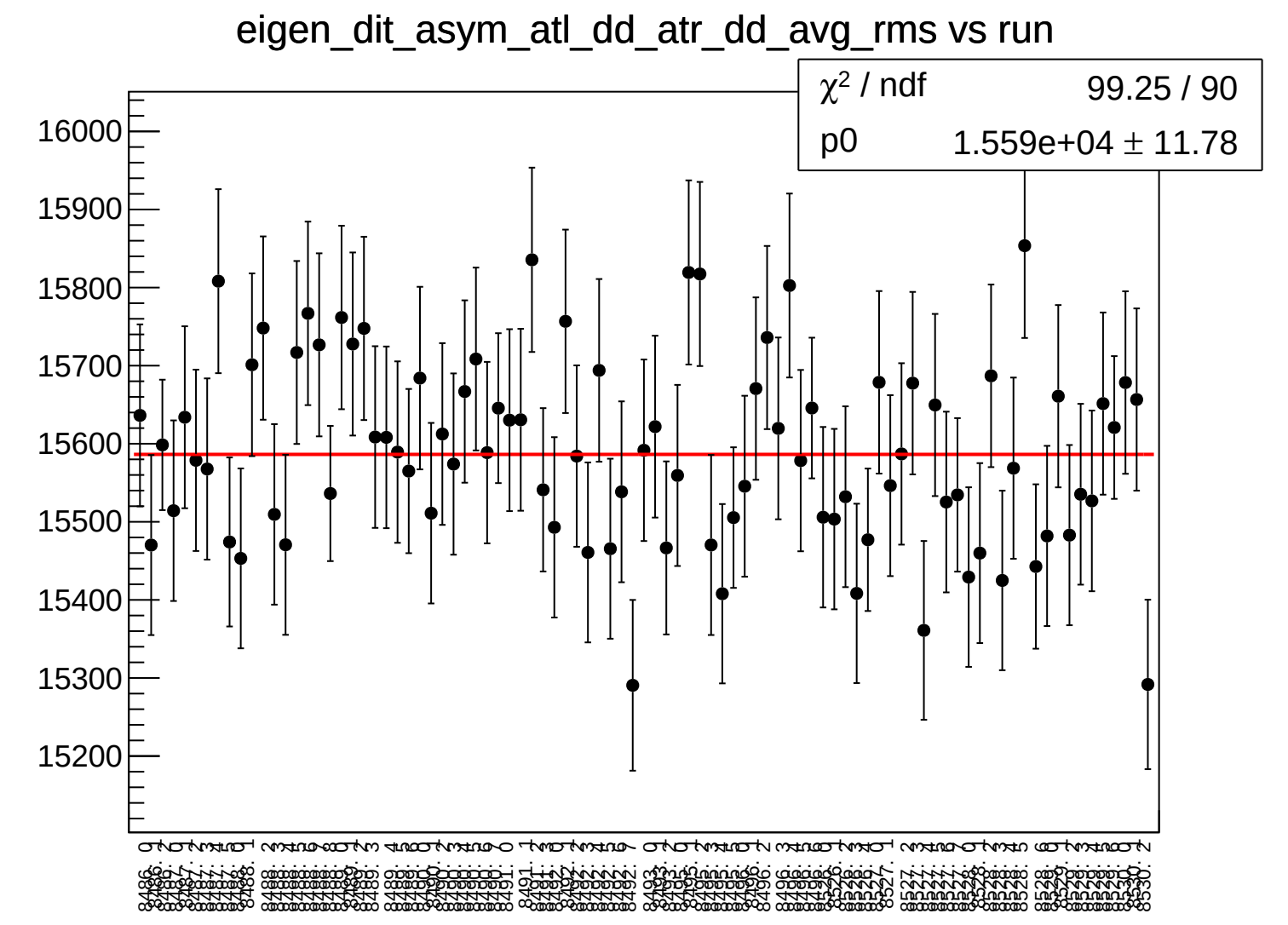

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
χ² / ndf 99.52 / 90
p0 −577 ± 672.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 24.66
Std Dev 0
2
1
0
−1
−2

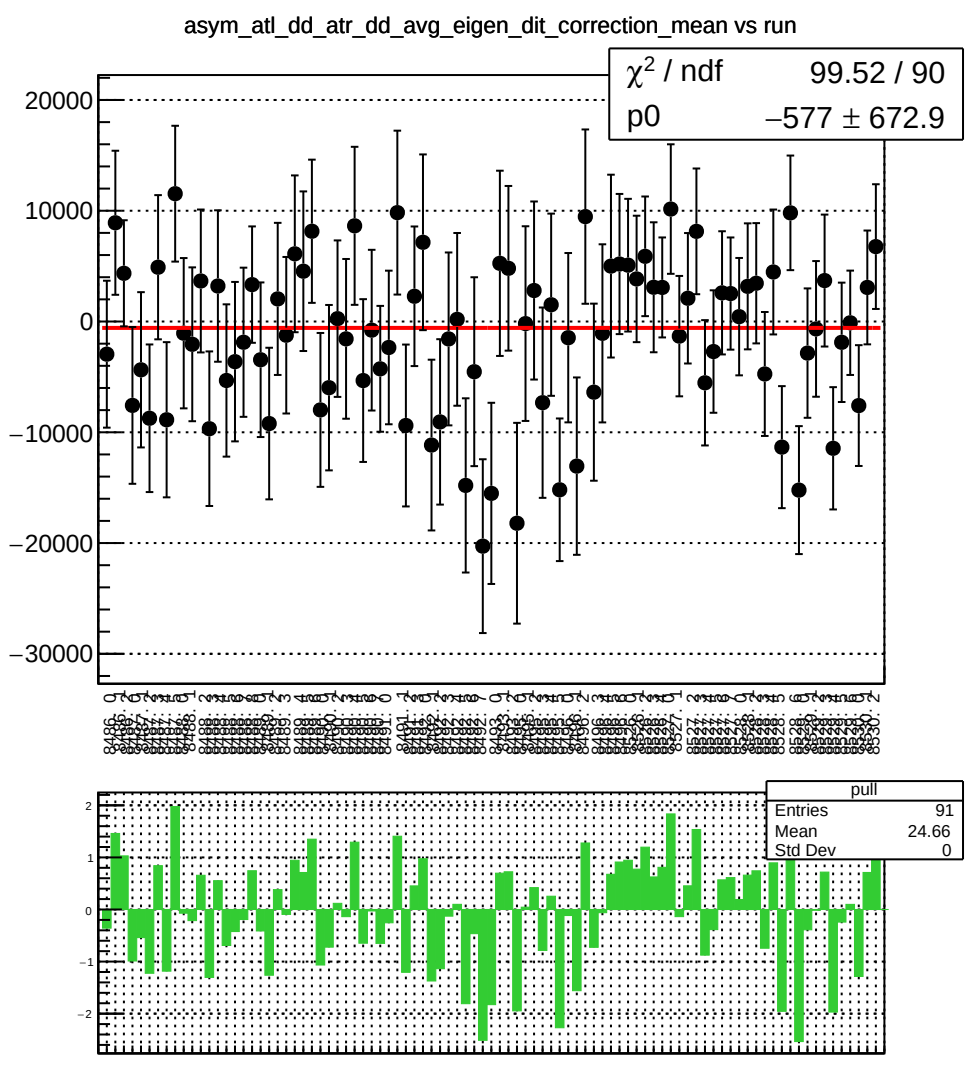

pull1D
Entries 91
Mean −0.04647
Std Dev 1.045
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

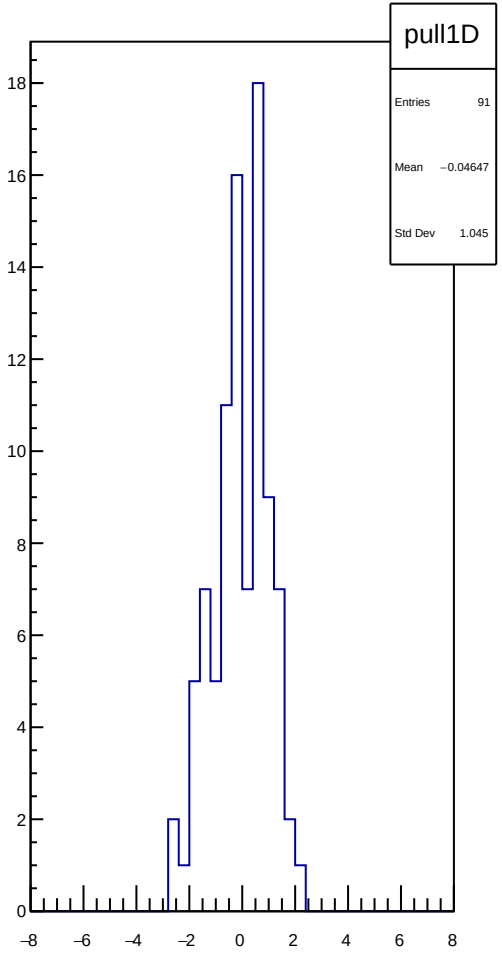

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 3.544e+04 / 90
p0 622.9 ± 0.4758
900
850
800
750
700
650
600
550
500
450

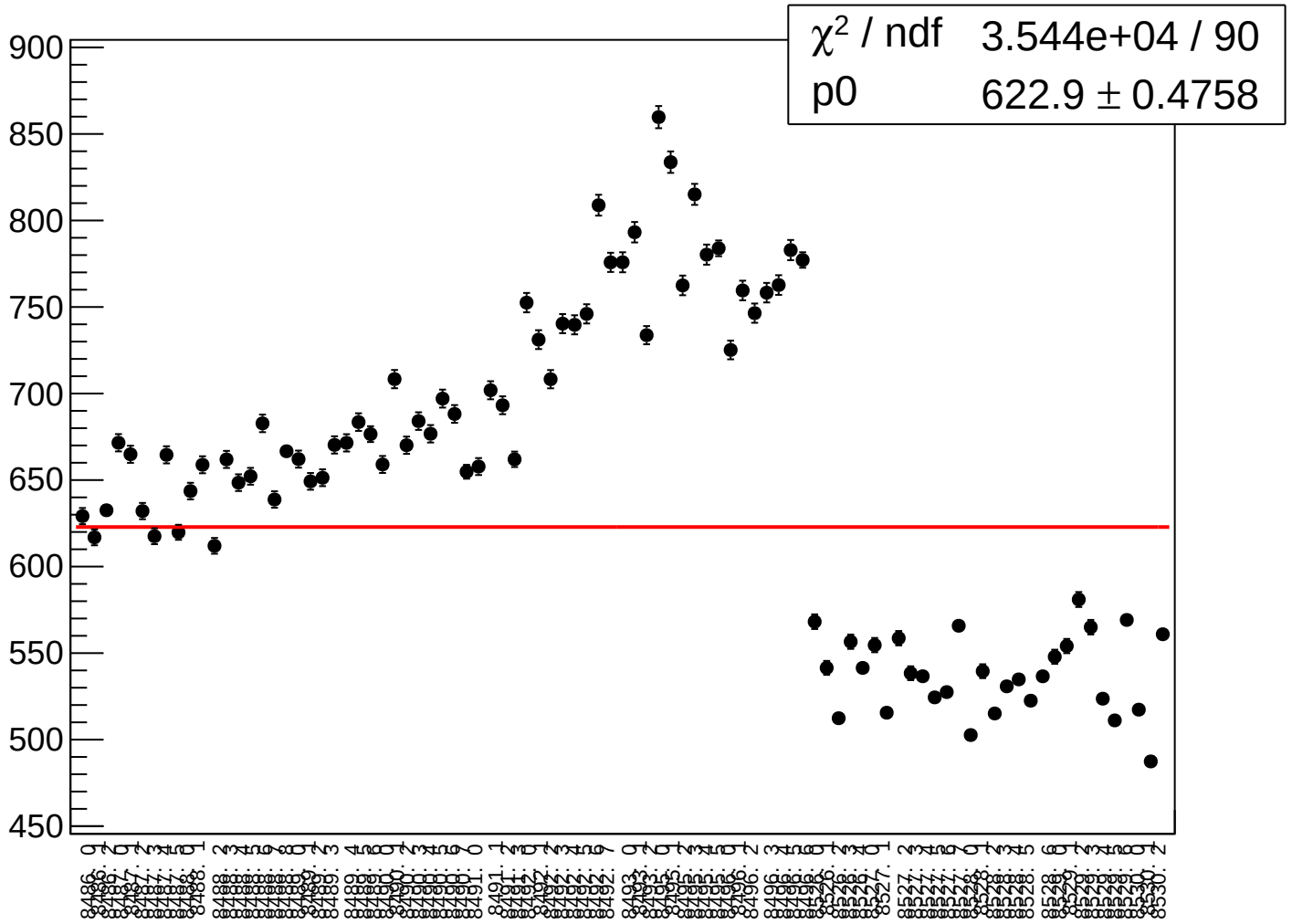

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 92.53 / 90
p0 1.115e+04 ± 1.667e+04
pull
Entries 91
Mean −539.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

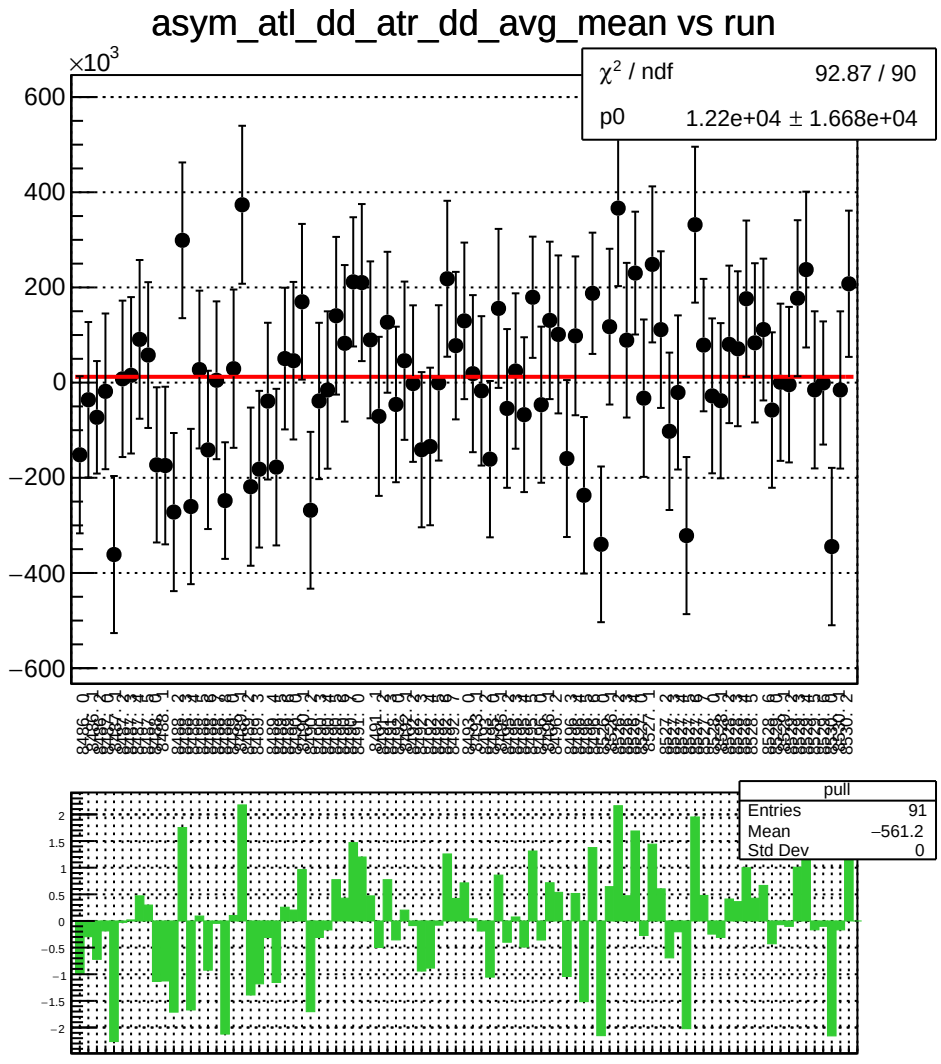

pull1D
Entries 91
Mean −0.01083
Std Dev 1.008
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

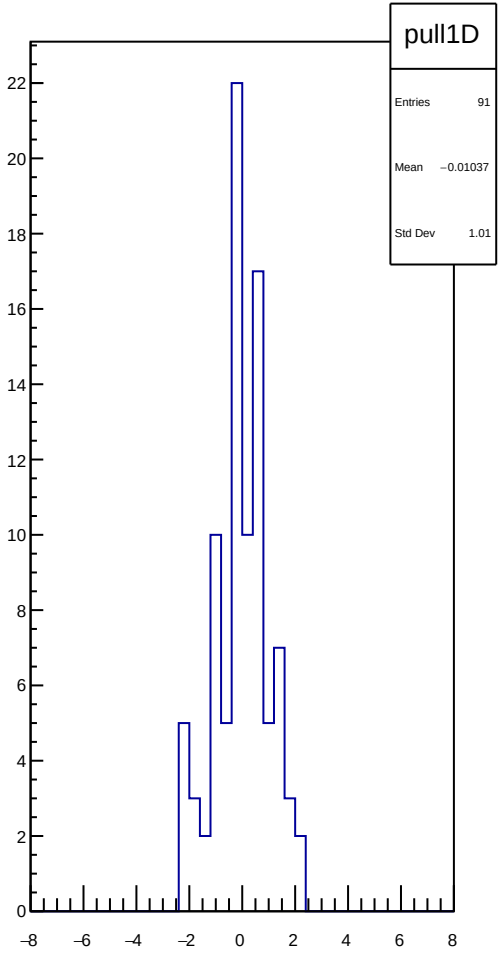

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 99.25 / 90
p0 1.559e+04 ± 11.78
16000
15900
15800
15700
15600
15500
15400
15300
15200

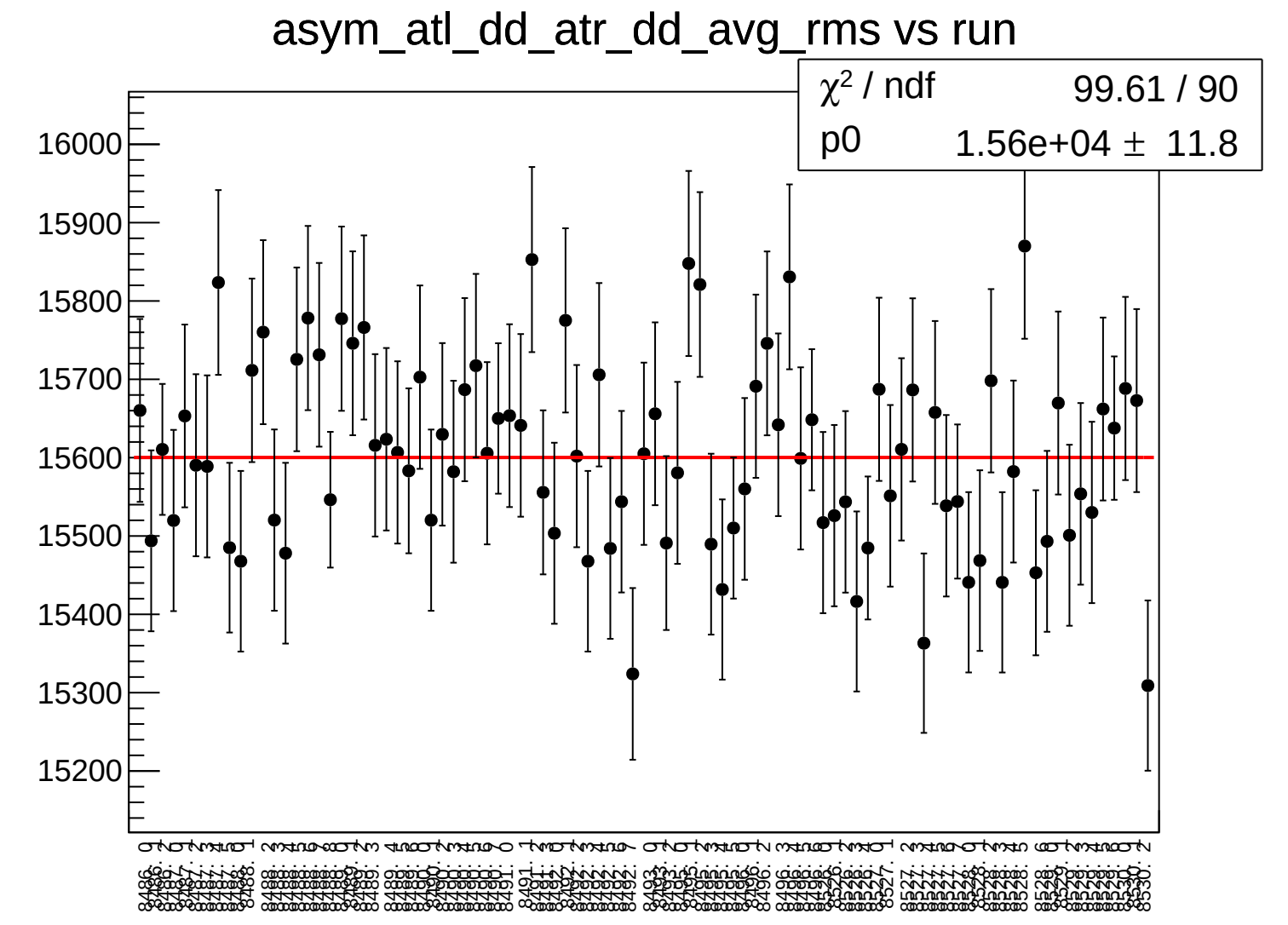

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 99.52 / 90
p0 −577 ± 672.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 24.66
Std Dev 0
2
1
0
−1
−2

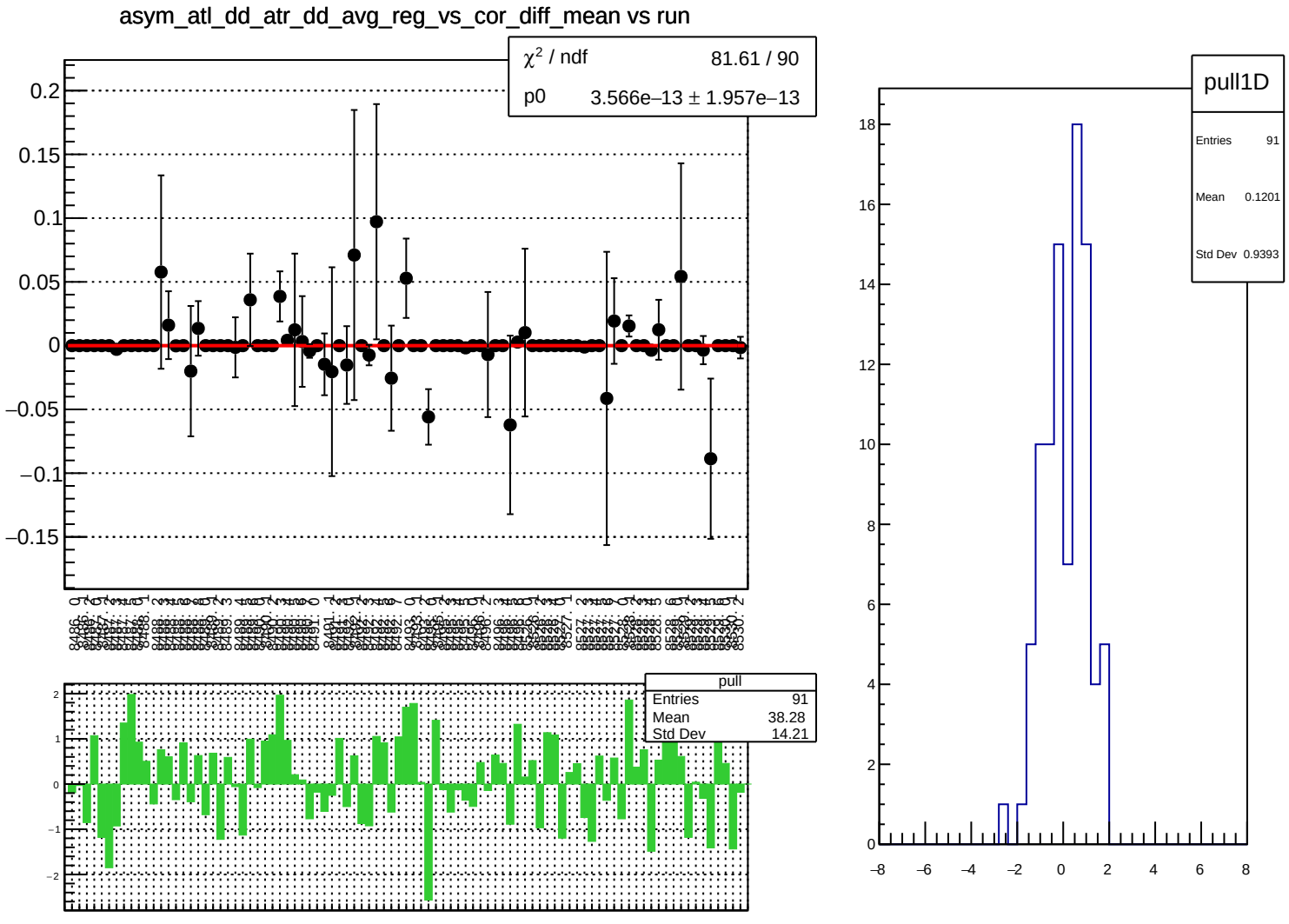

pull1D
Entries 91
Mean −0.04647
Std Dev 1.045
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

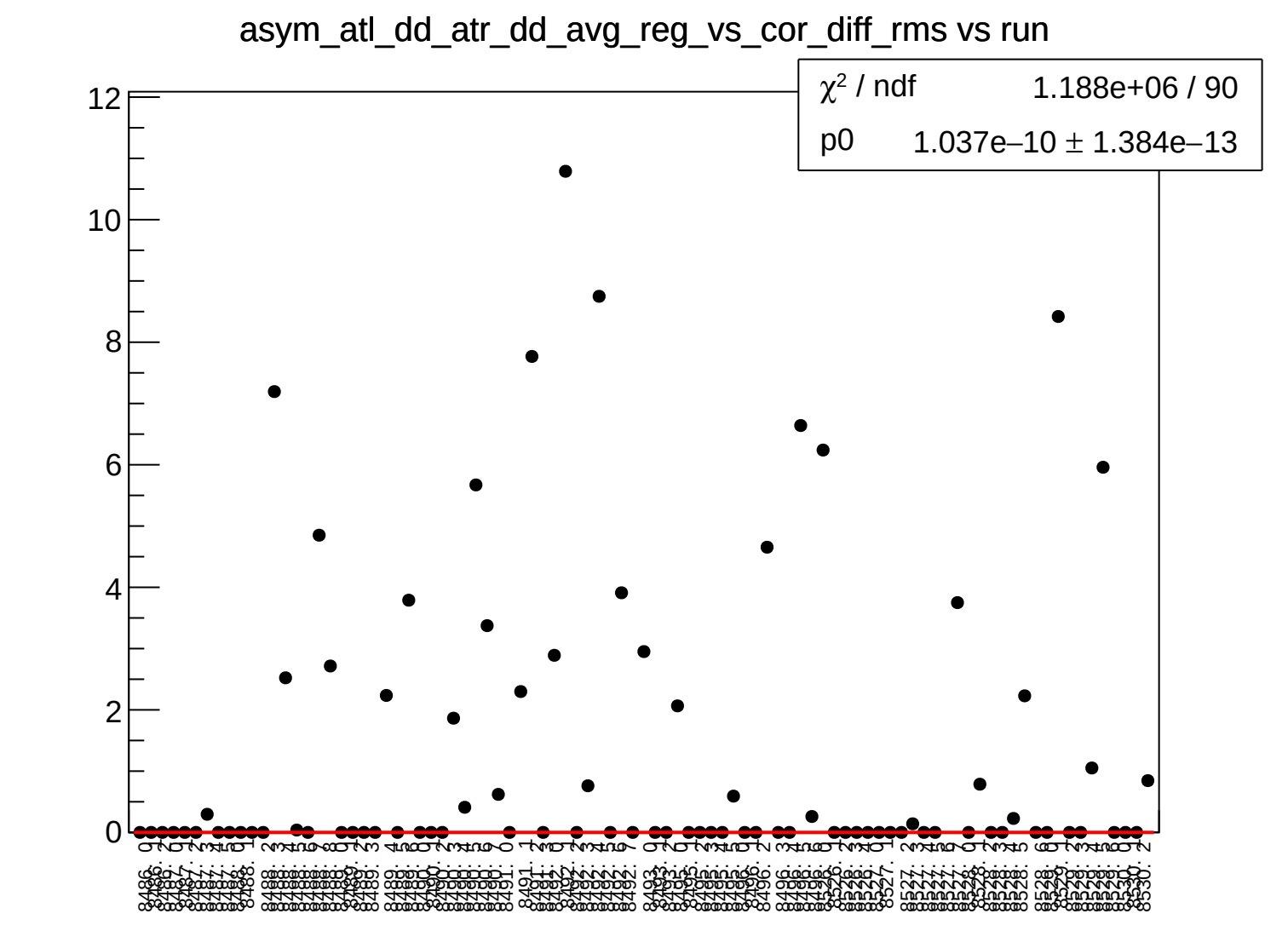

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.544e+04 / 90
p0 622.9 ± 0.4758
900
850
800
750
700
650
600
550
500
450

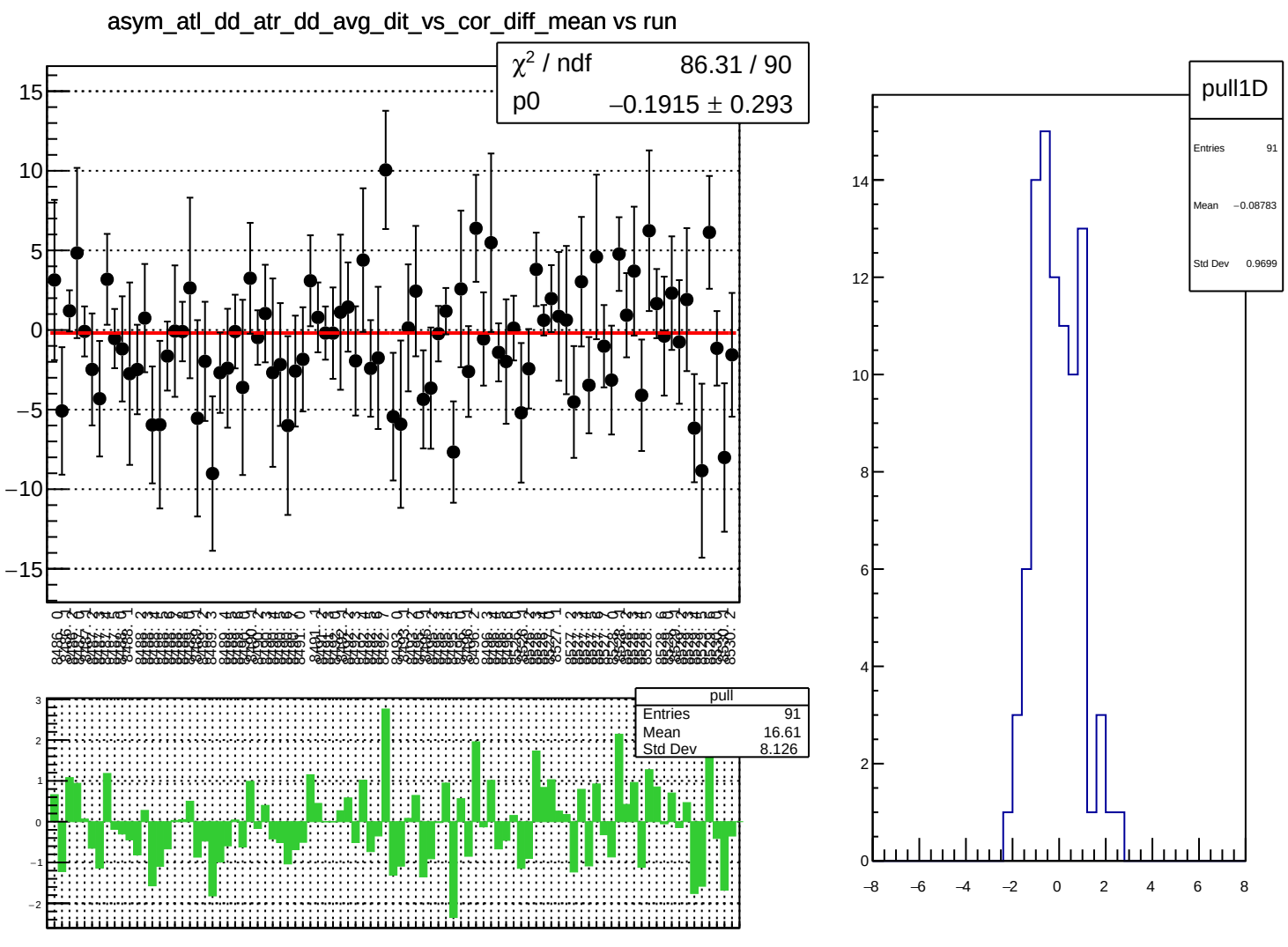

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 92.87 / 90
p0 1.22e+04 ± 1.668e+04
pull
Entries 91
Mean −561.2
Std Dev 0

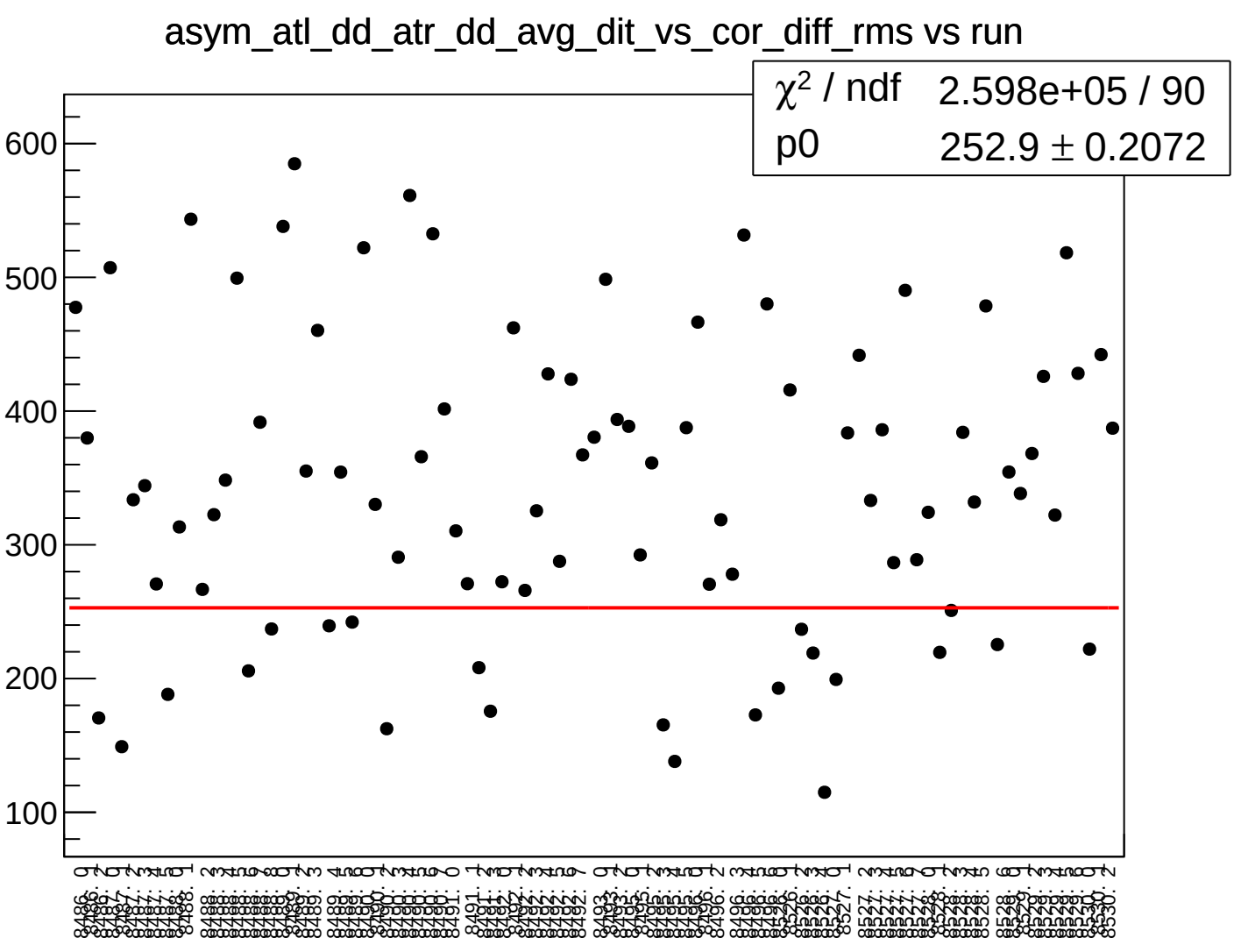

pull1D
Entries 91
Mean −0.01037
Std Dev 1.01

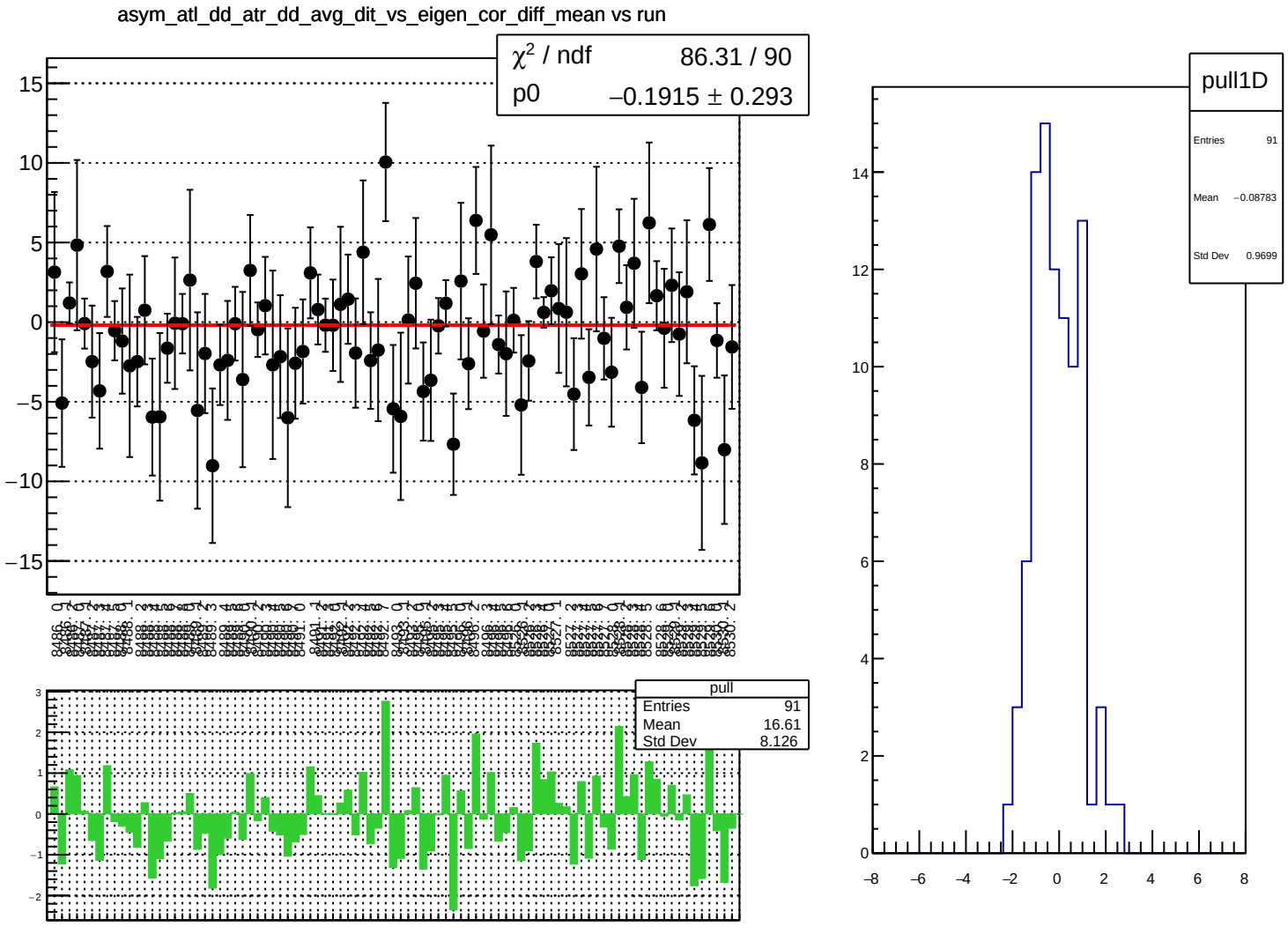

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 99.61 / 90
p0 1.56e+04 ± 11.8
16000
15900
15800
15700
15600
15500
15400
15300
15200

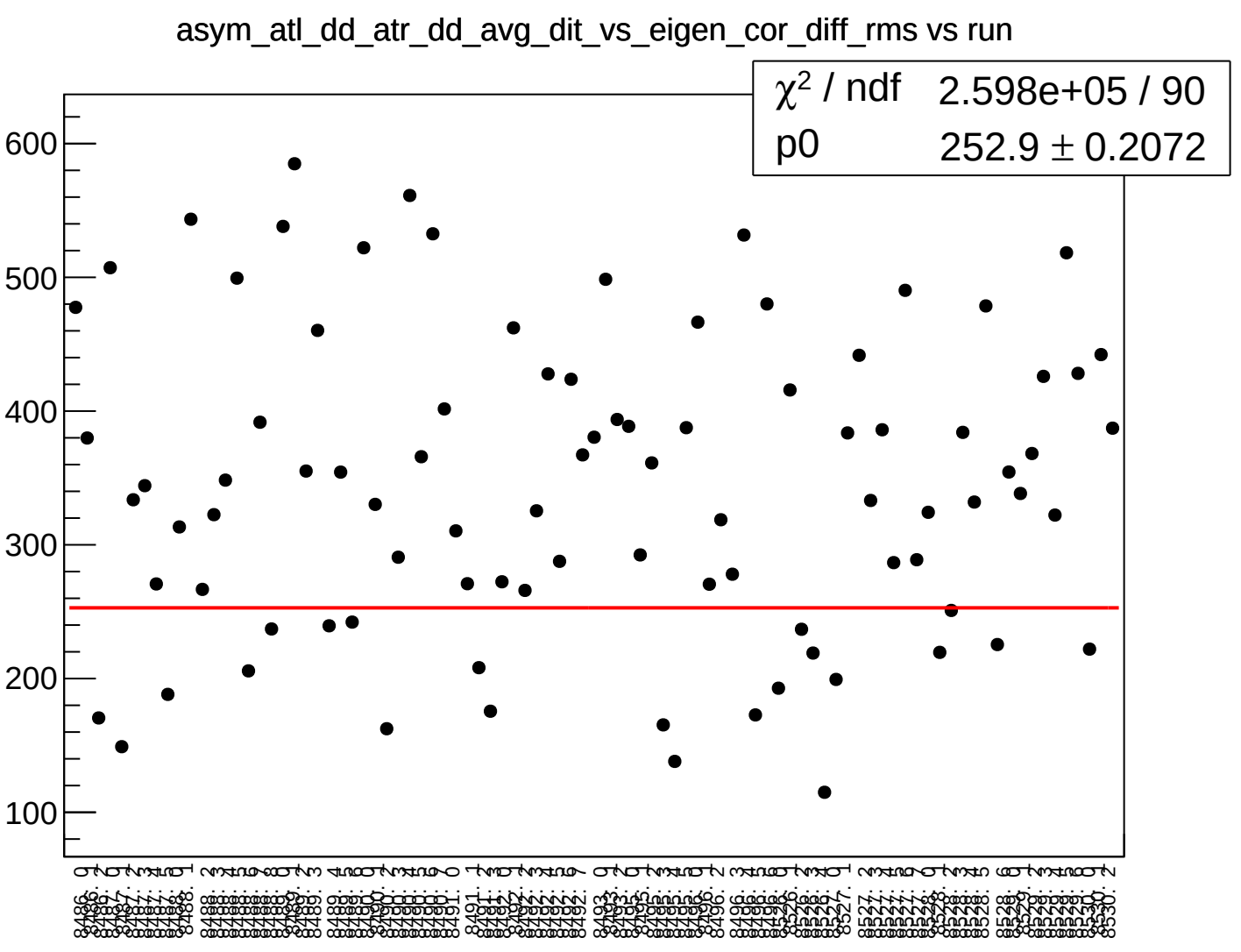

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 81.61 / 90
p0 3.566e−13 ± 1.957e−13
pull
Entries 91
Mean 38.28
Std Dev 14.21
pull1D
Entries 91
Mean 0.1201
Std Dev 0.9393

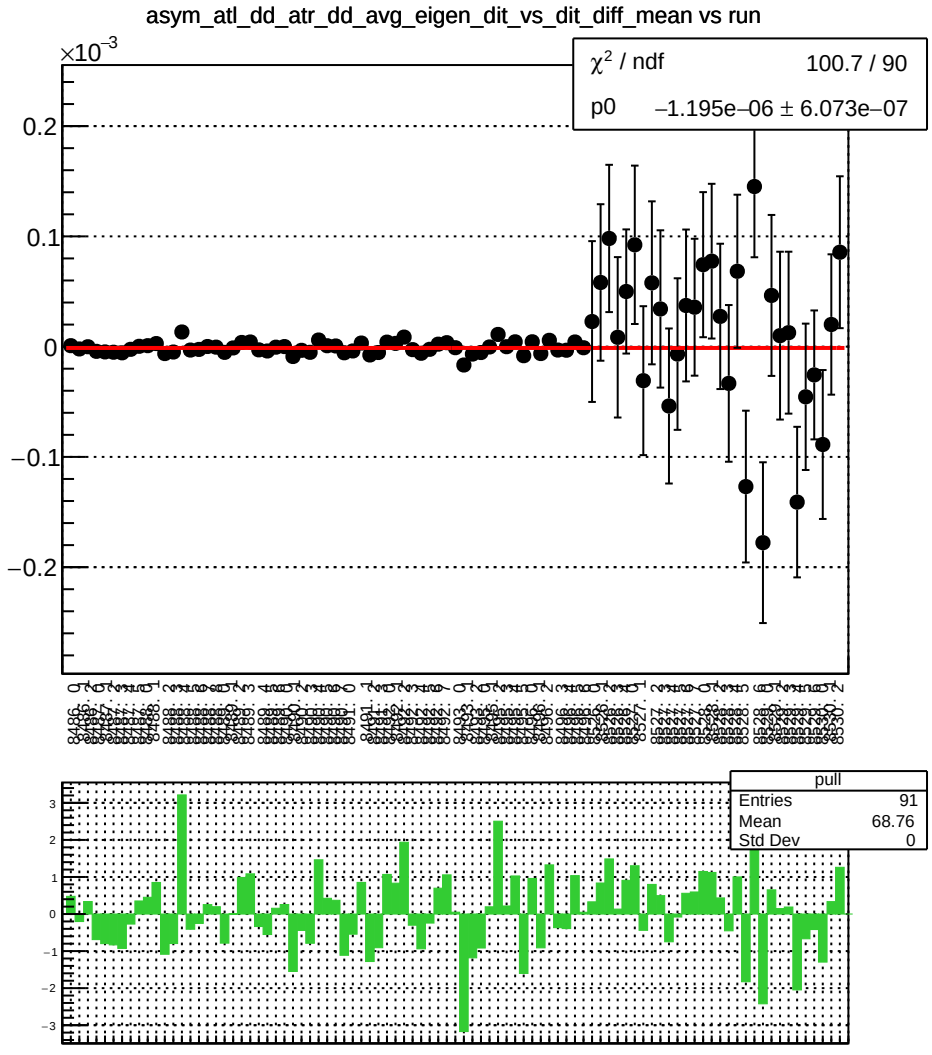

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.188e+06 / 90
p0 1.037e−10 ± 1.384e−13
12
10
8
6
4
2
0

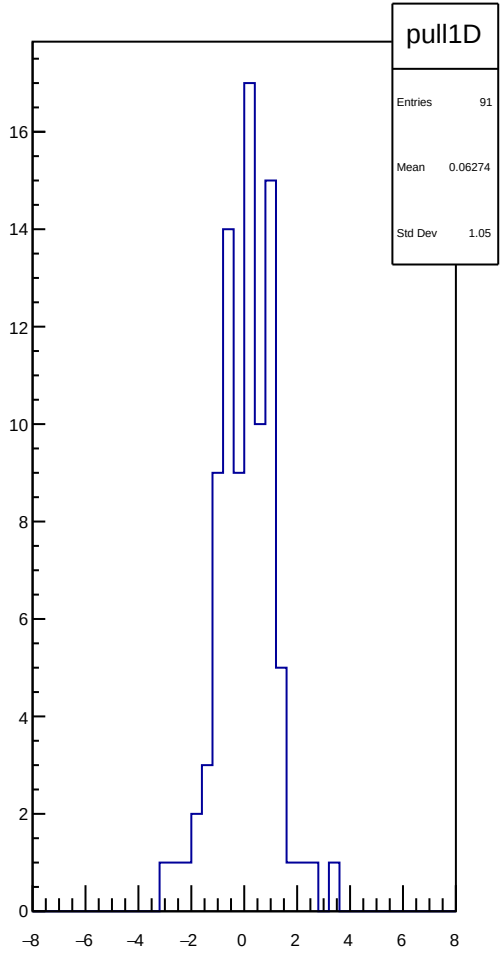

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 86.31 / 90
p0 −0.1915 ± 0.293
pull
Entries 91
Mean 16.61
Std Dev 8.126
pull1D
Entries 91
Mean −0.08783
Std Dev 0.9699

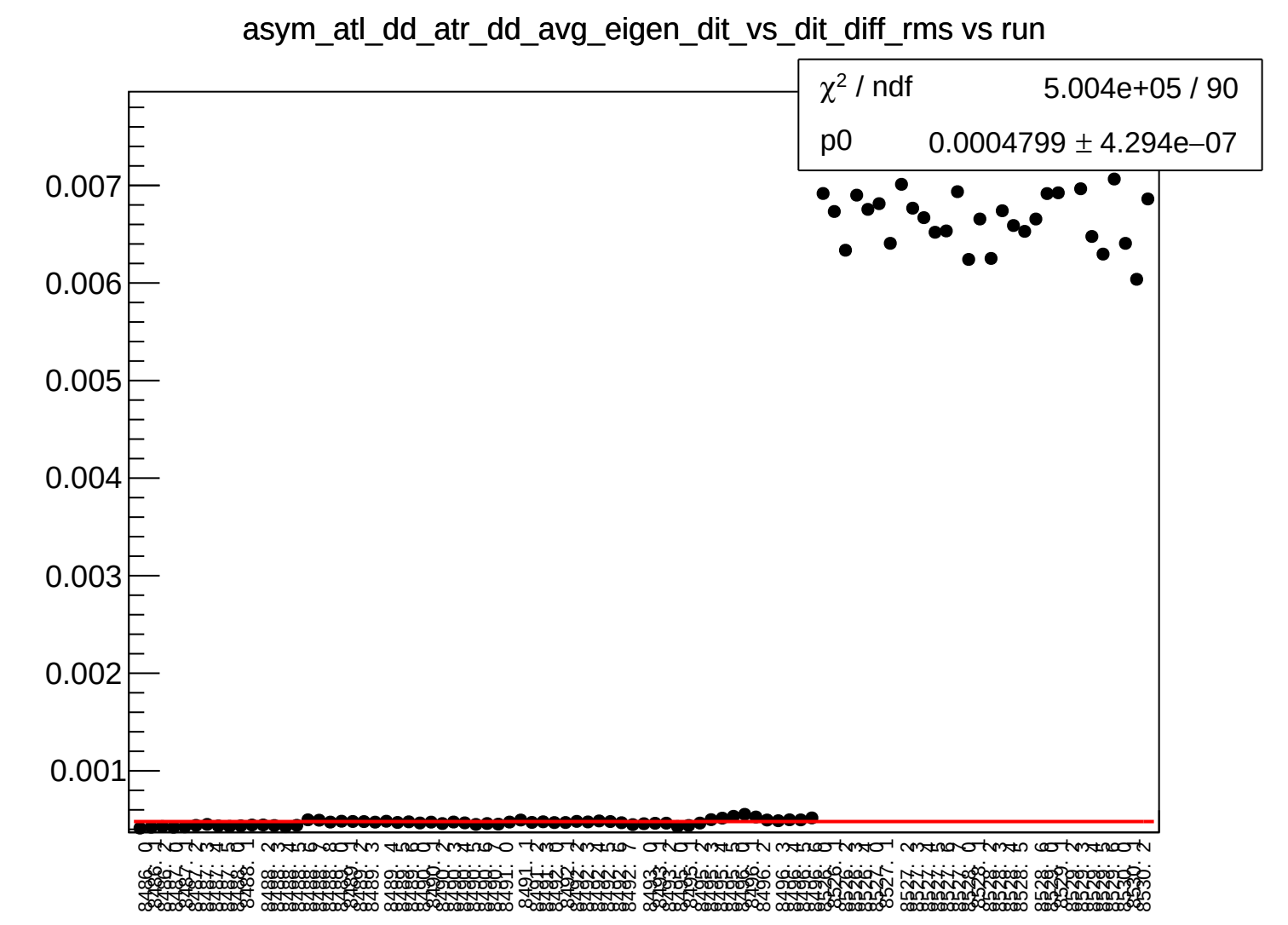

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.598e+05 / 90
p0 252.9 ± 0.2072
600
500
400
300
200
100

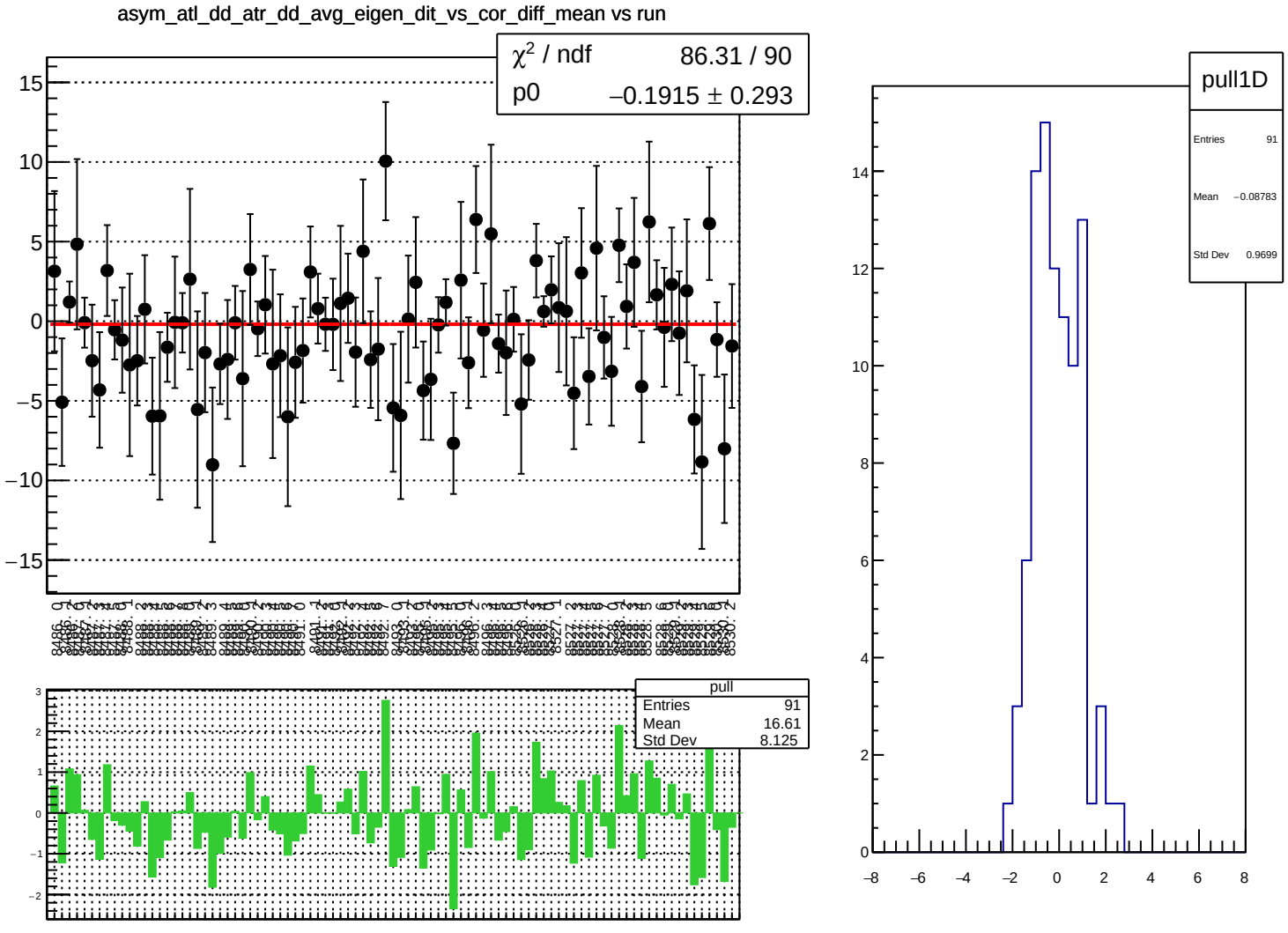

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.31 / 90
p0 −0.1915 ± 0.293
pull
Entries 91
Mean 16.61
Std Dev 8.126
pull1D
Entries 91
Mean −0.08783
Std Dev 0.9699

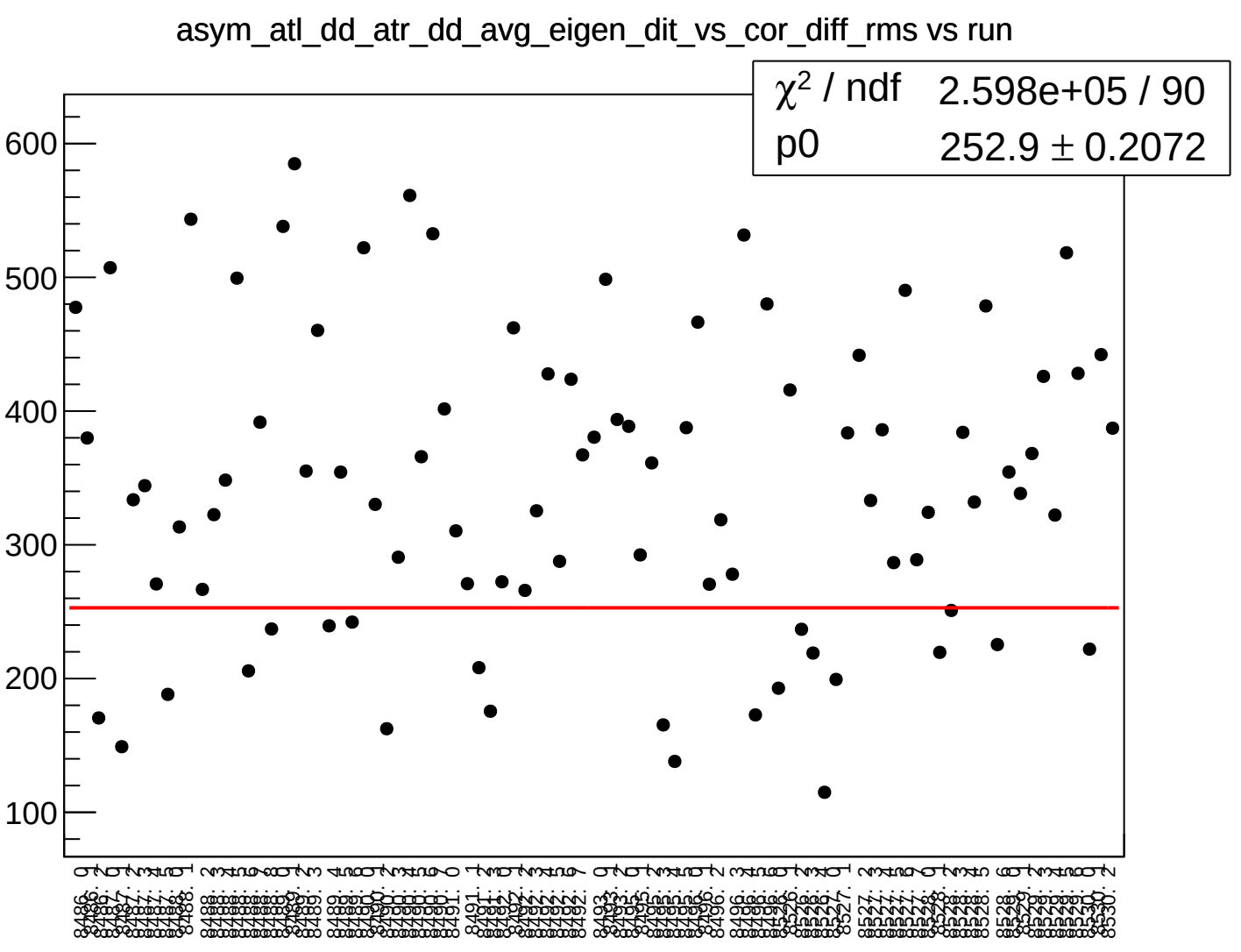

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.598e+05 / 90
p0 252.9 ± 0.2072
600
500
400
300
200
100

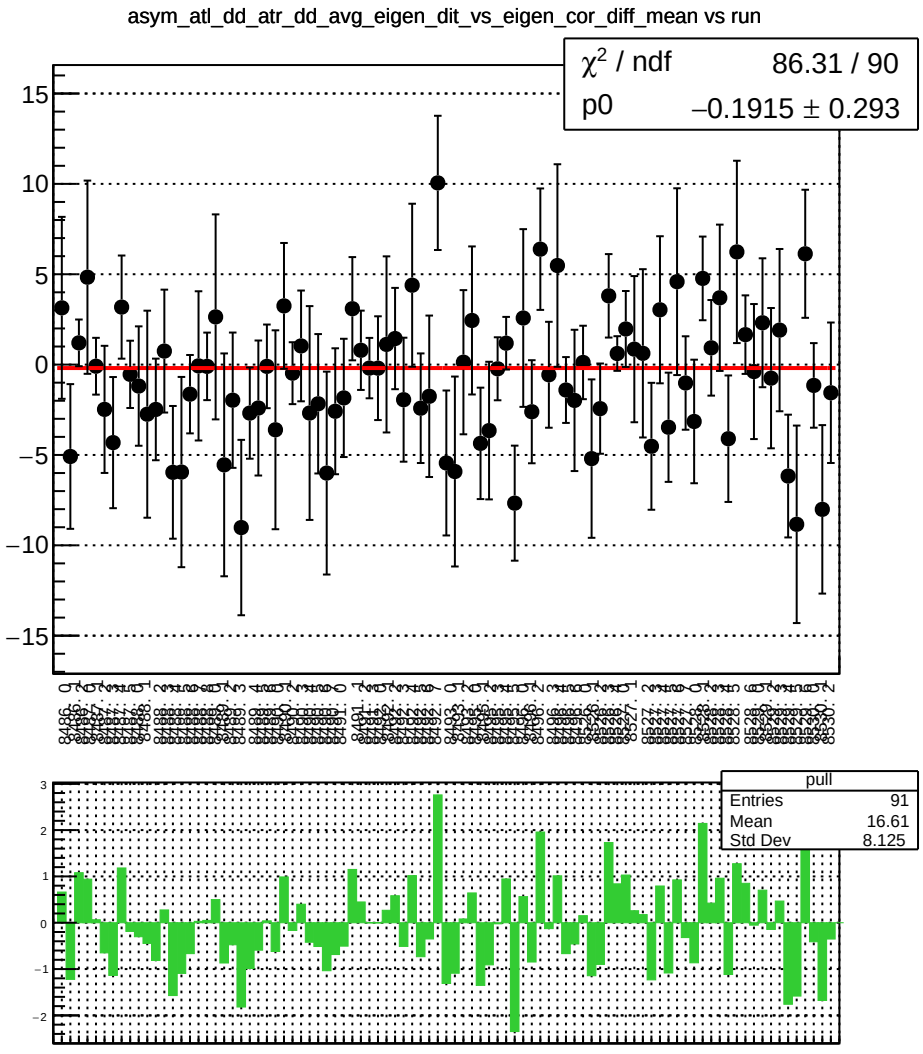

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.7 / 90
p0 −1.195e−06 ± 6.073e−07
0.2
0.1
0
−0.1
−0.2
pull
Entries 91
Mean 68.76
Std Dev 0
3
2
1
0
−1
−2
−3

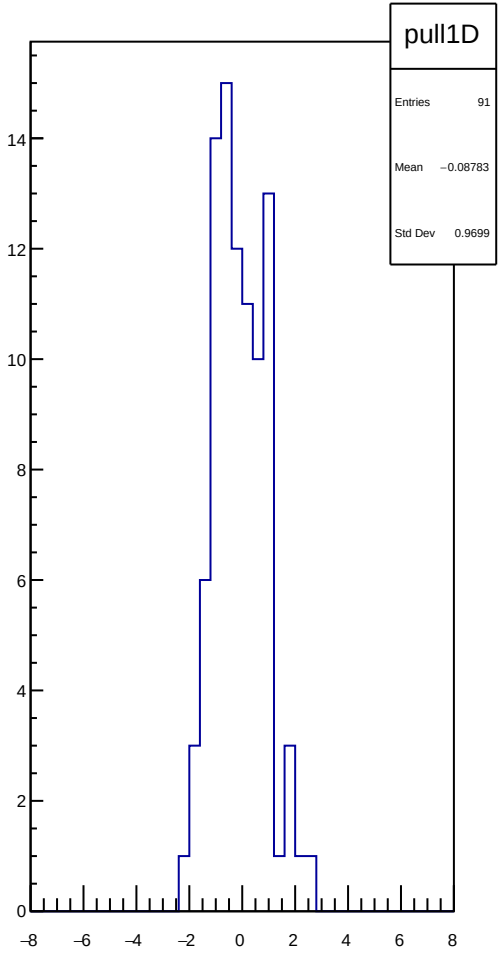

pull1D
Entries 91
Mean 0.06274
Std Dev 1.05
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

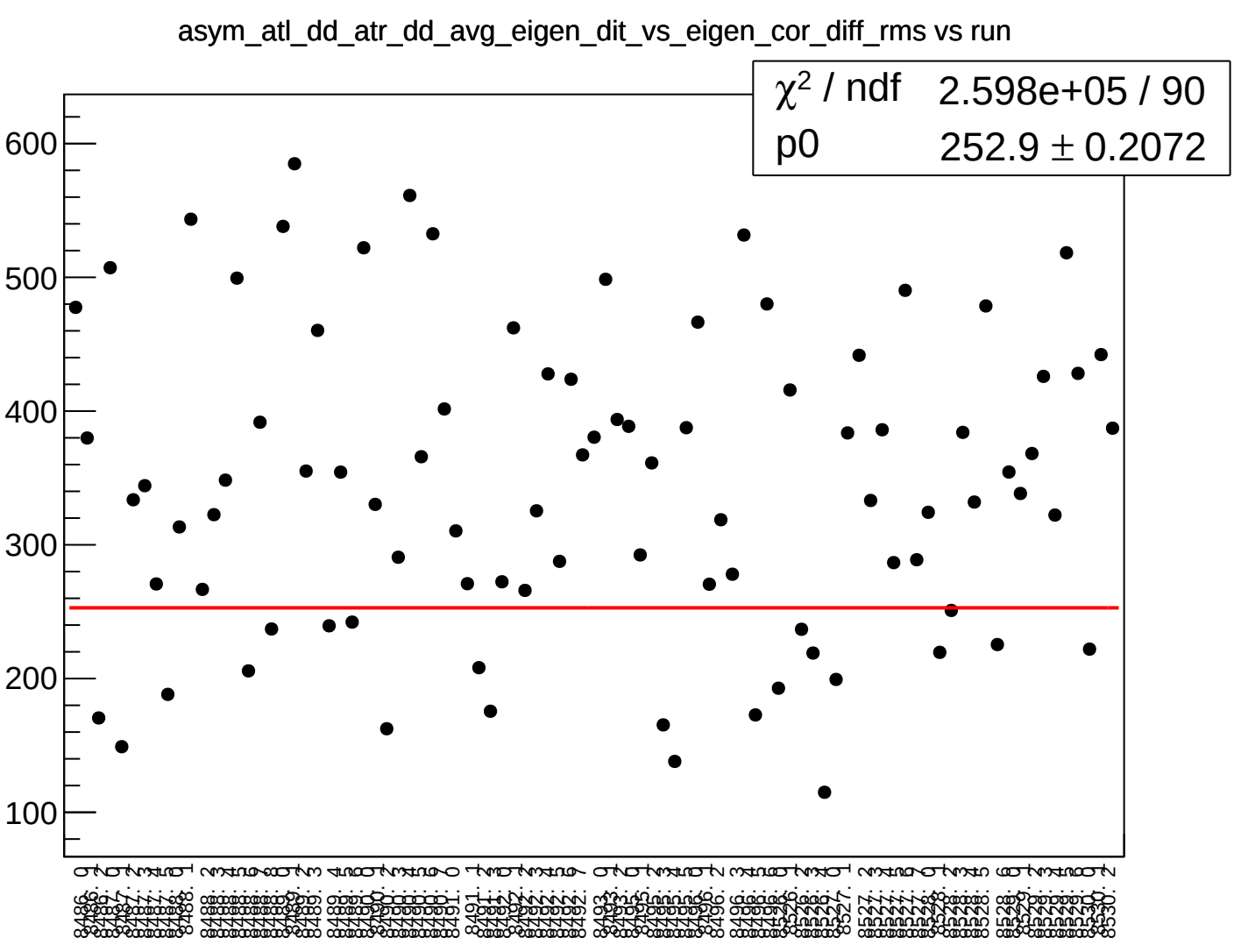

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.004e+05 / 90
p0 0.0004799 ± 4.294e−07
0.007
0.006
0.005
0.004
0.003
0.002
0.001

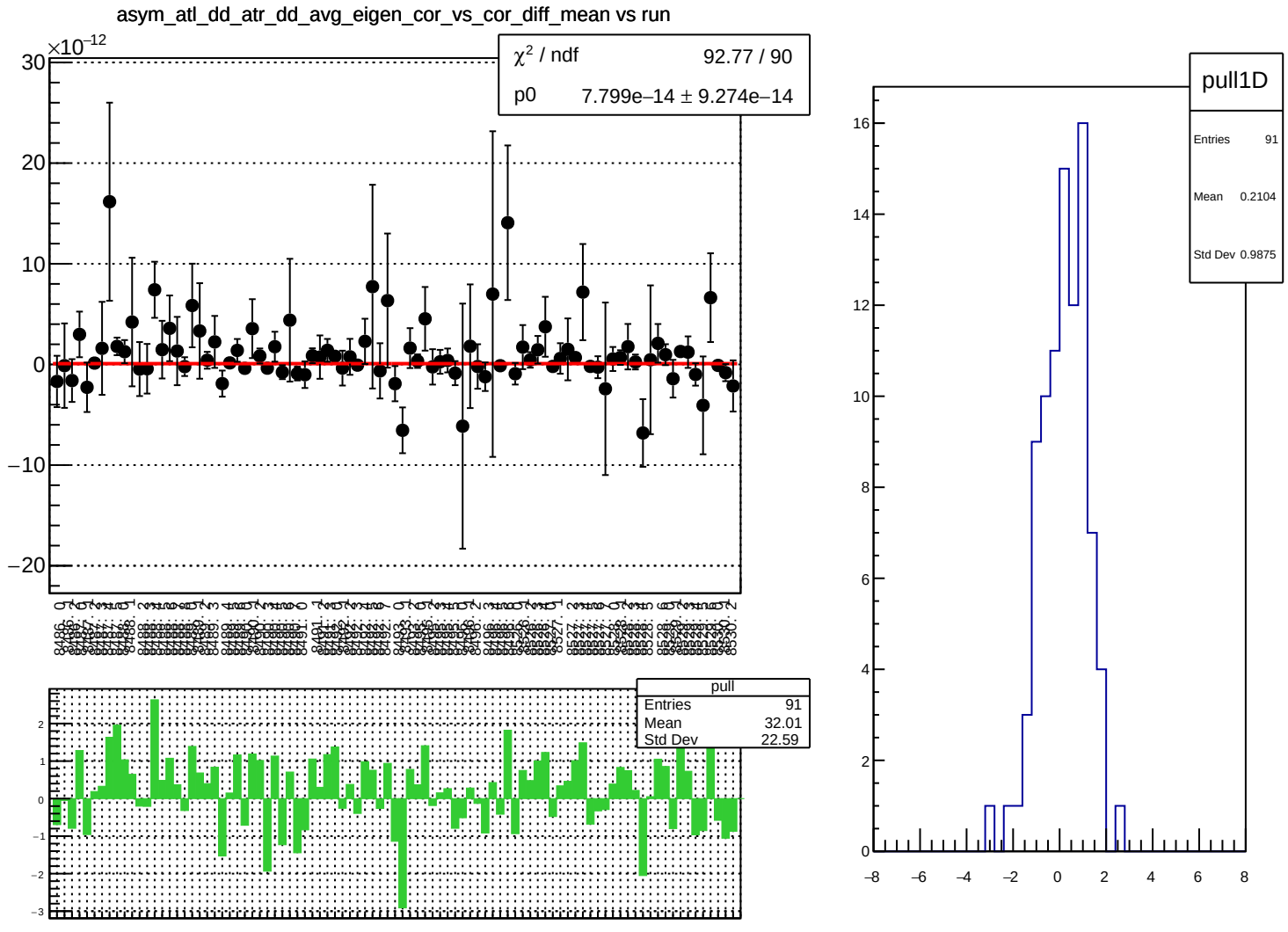

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.31 / 90
p0 −0.1915 ± 0.293
pull
Entries 91
Mean 16.61
Std Dev 8.125
pull1D
Entries 91
Mean −0.08783
Std Dev 0.9699

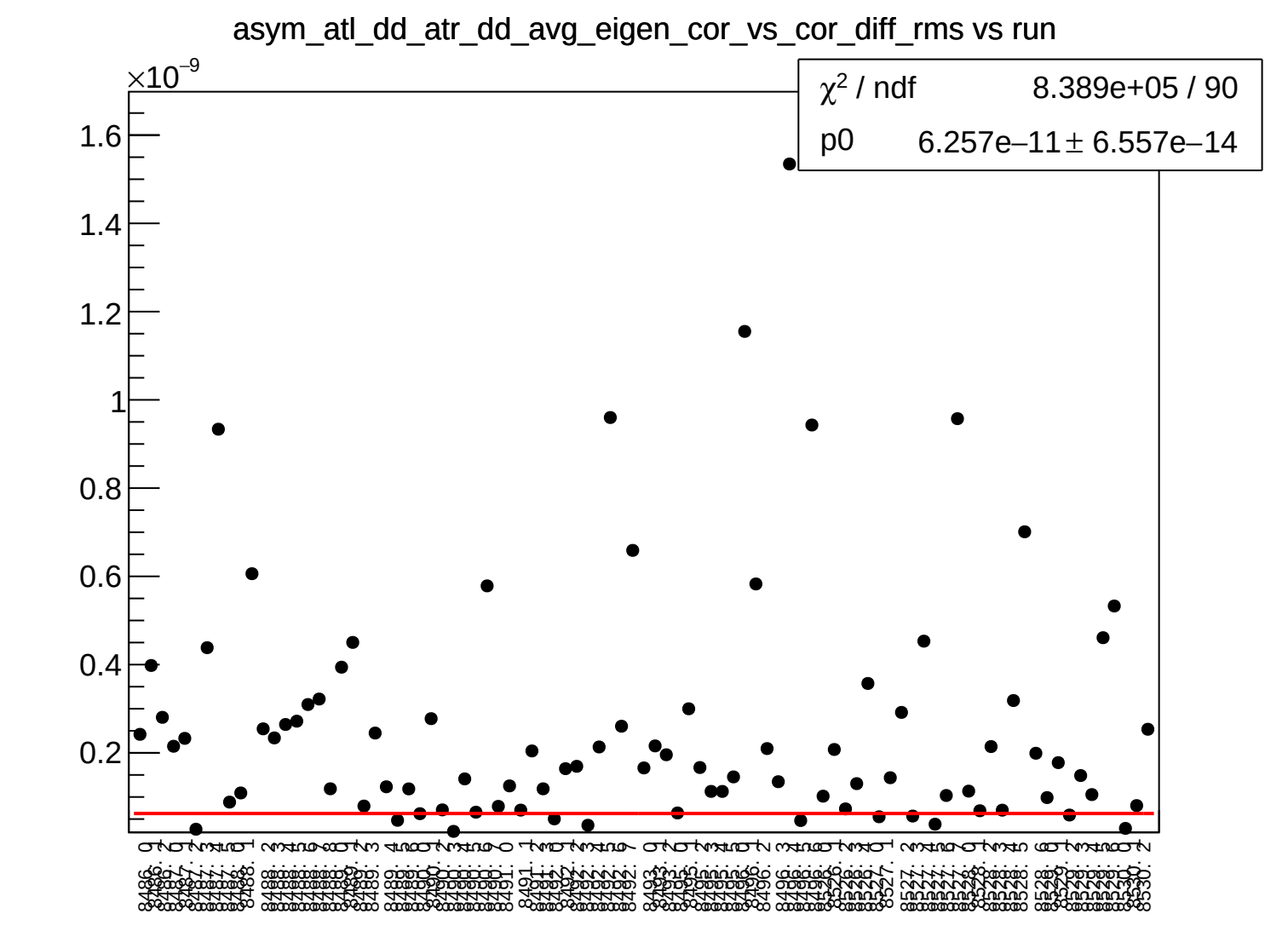

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.598e+05 / 90
p0 252.9 ± 0.2072
600
500
400
300
200
100

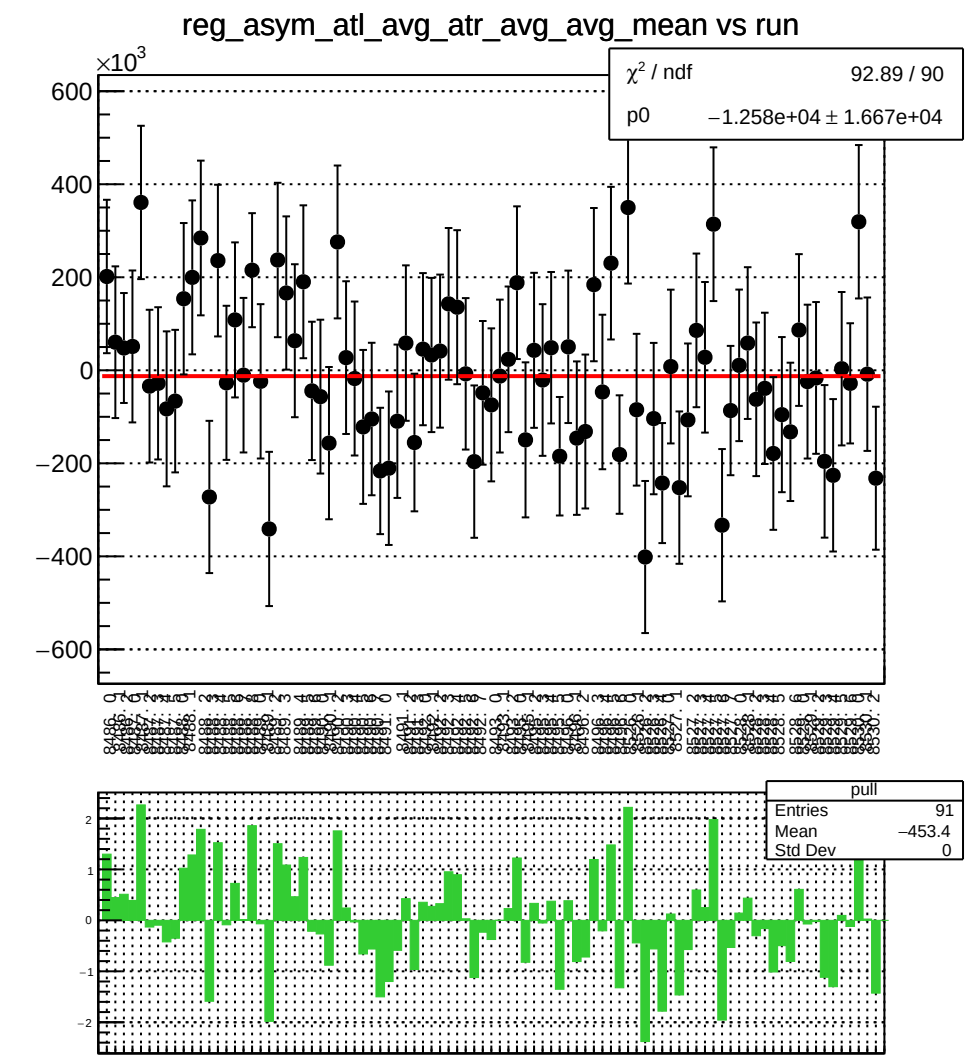

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.31 / 90
p0 −0.1915 ± 0.293
pull
Entries 91
Mean 16.61
Std Dev 8.125

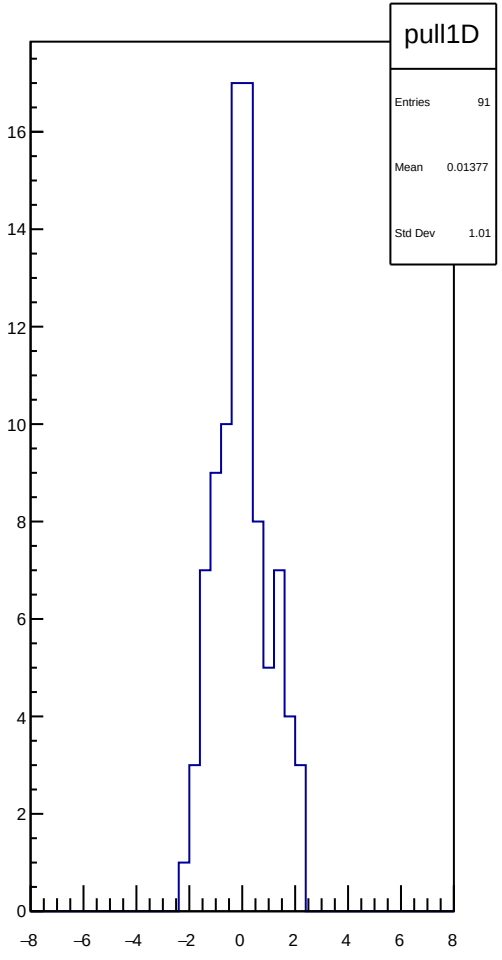

pull1D
Entries 91
Mean −0.08783
Std Dev 0.9699

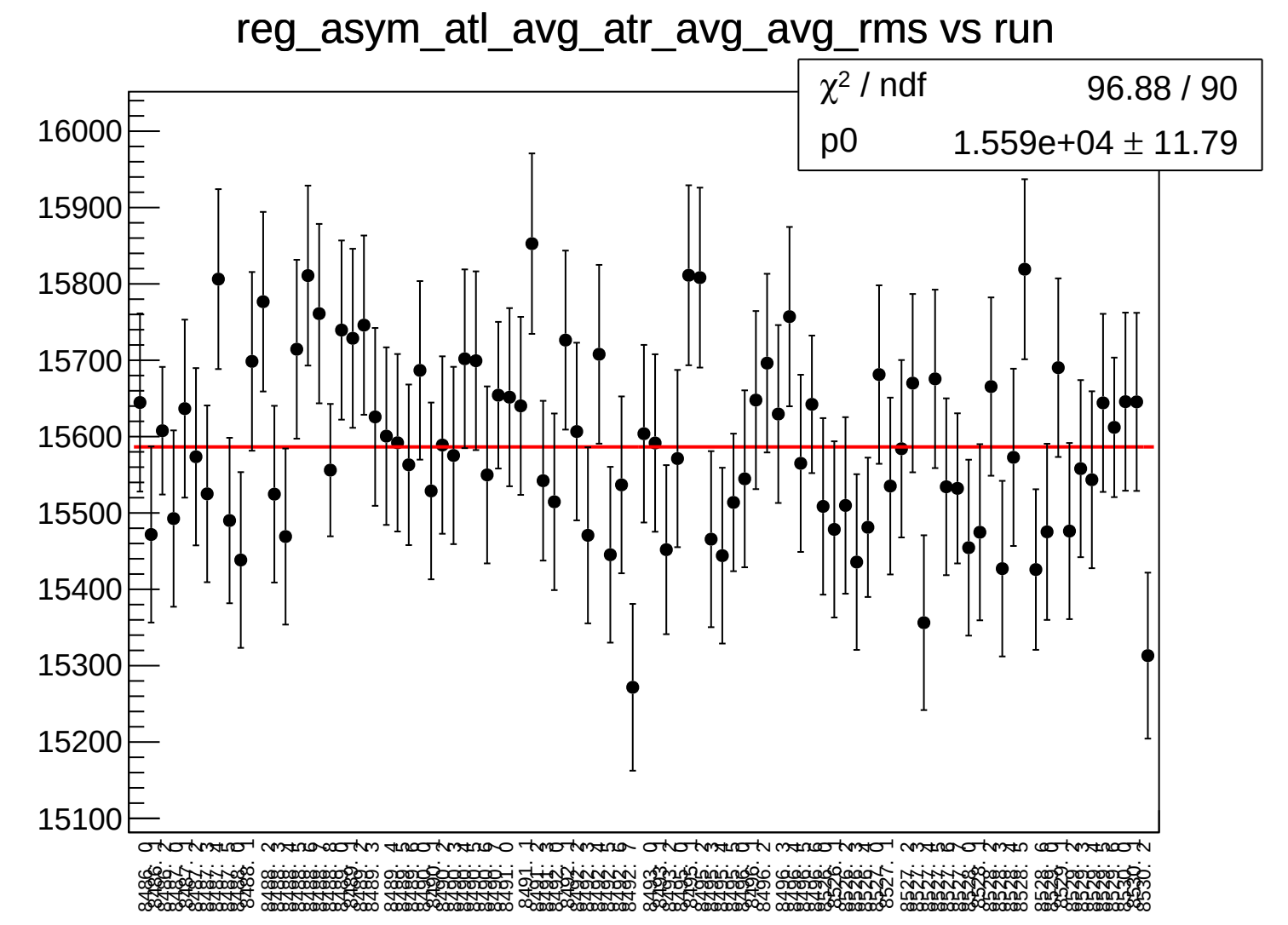

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.598e+05 / 90
p0 252.9 ± 0.2072
600
500
400
300
200
100

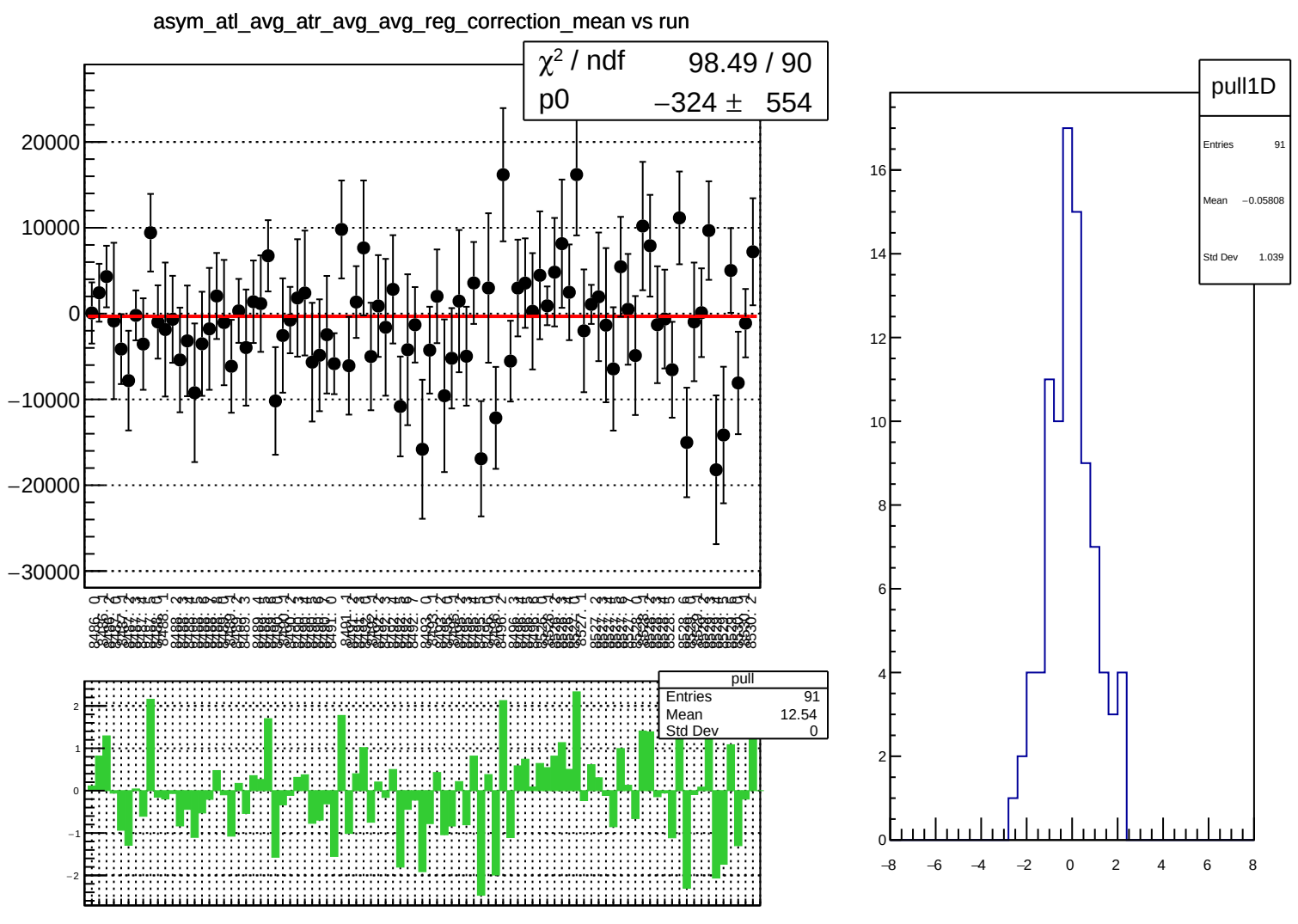

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.77 / 90
p0 7.799e−14 ± 9.274e−14
pull
Entries 91
Mean 32.01
Std Dev 22.59
pull1D
Entries 91
Mean 0.2104
Std Dev 0.9875

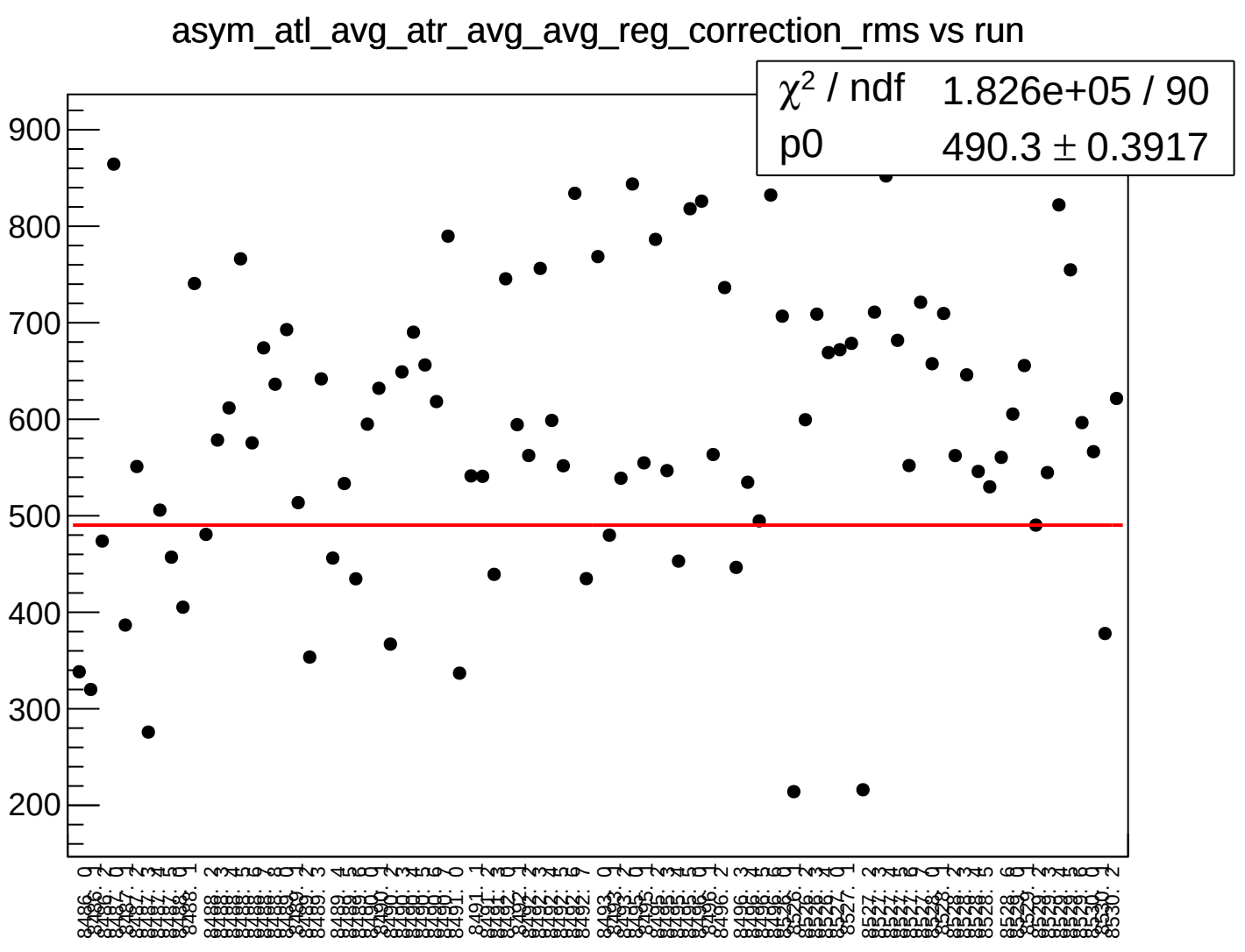

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.389e+05 / 90
p0 6.257e−11 ± 6.557e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

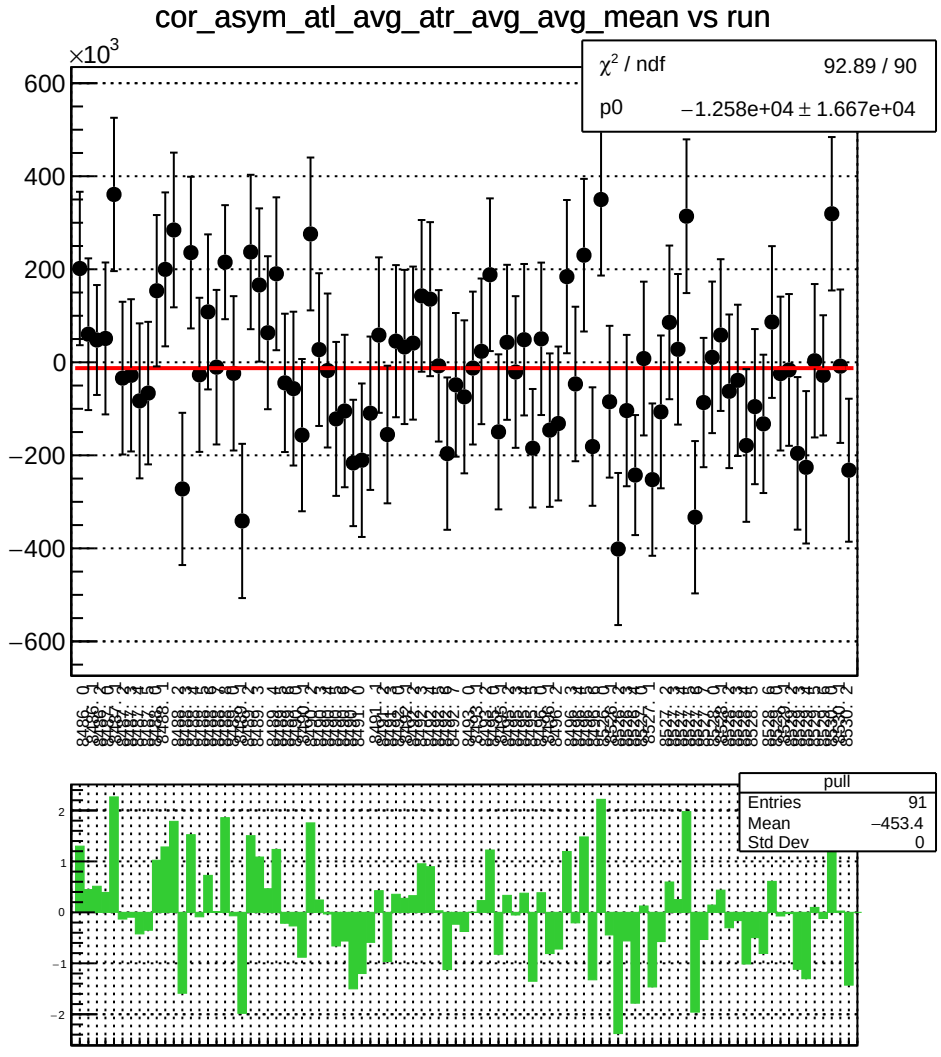

reg_asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 92.89 / 90
p0 −1.258e+04 ± 1.667e+04
pull
Entries 91
Mean −453.4
Std Dev 0

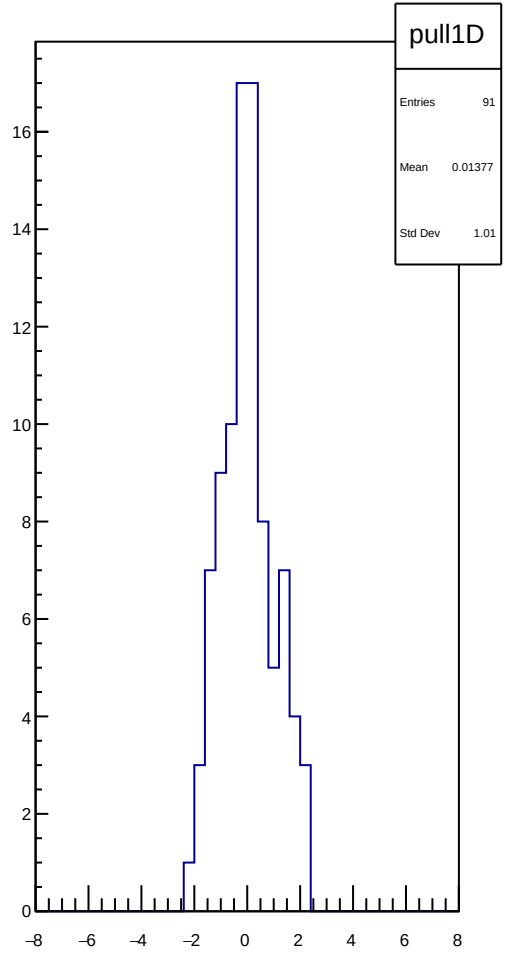

pull1D
Entries 91
Mean 0.01377
Std Dev 1.01

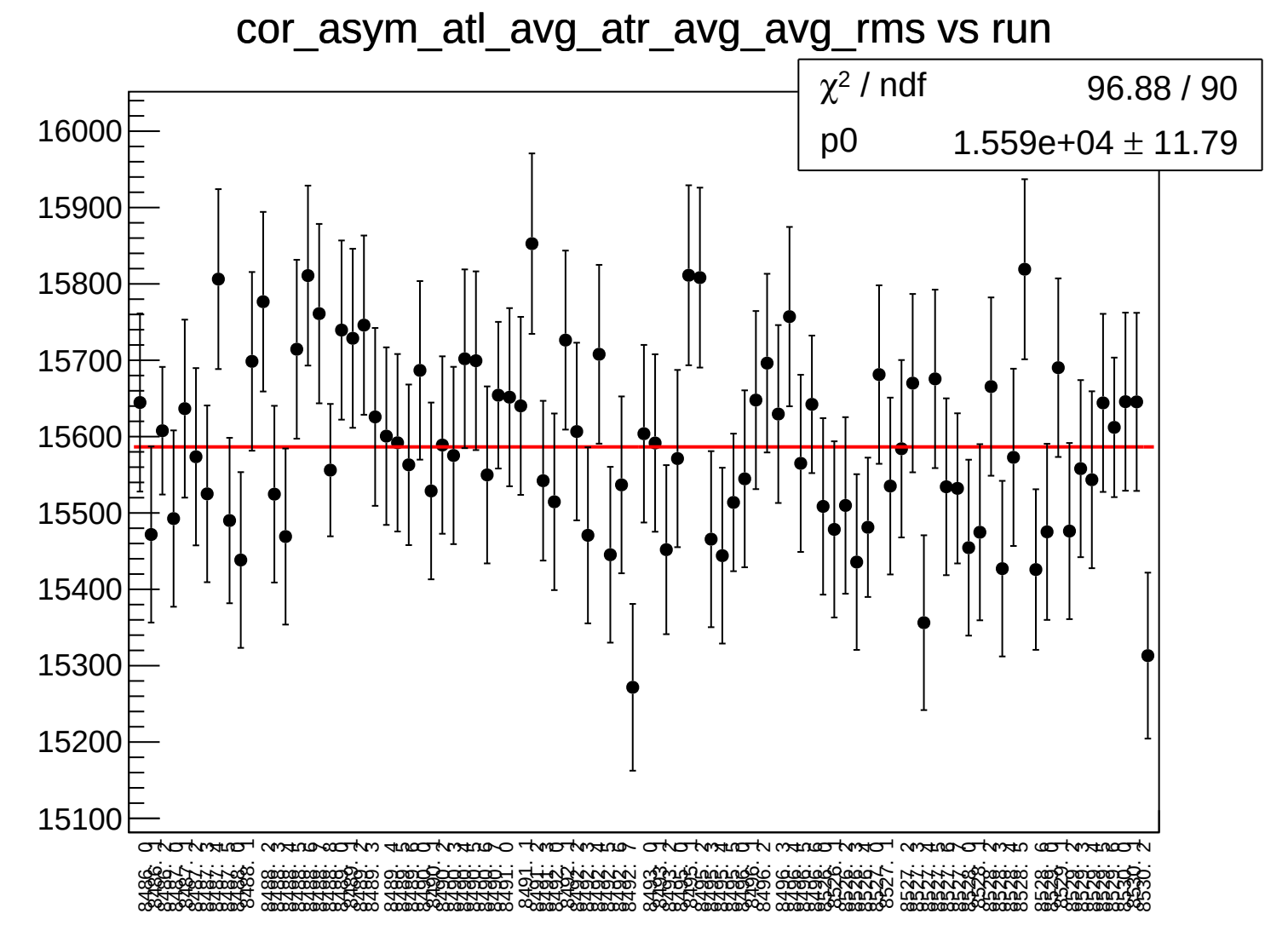

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 96.88 / 90
p0 1.559e+04 ± 11.79
16000
15900
15800
15700
15600
15500
15400
15300
15200
15100

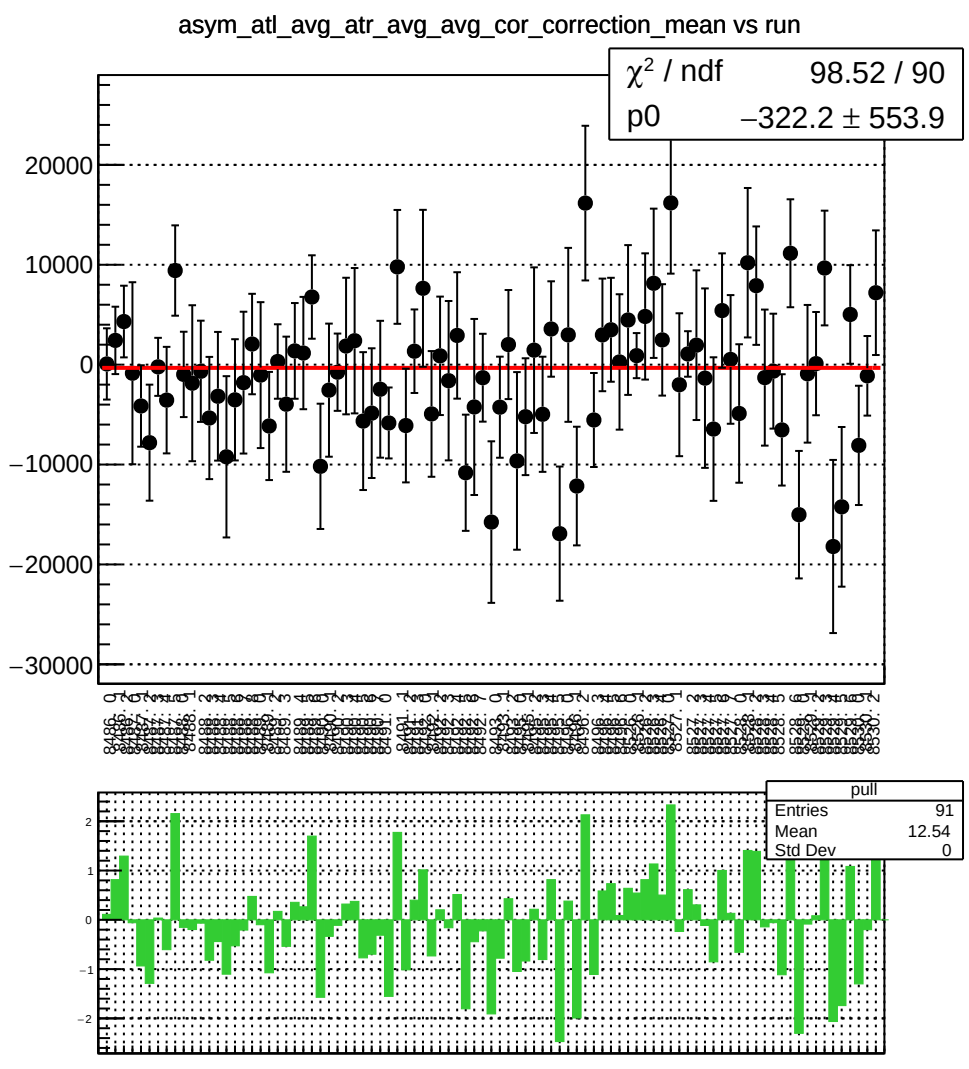

asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
χ² / ndf 98.49 / 90
p0 −324 ± 554
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 12.54
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.05808
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

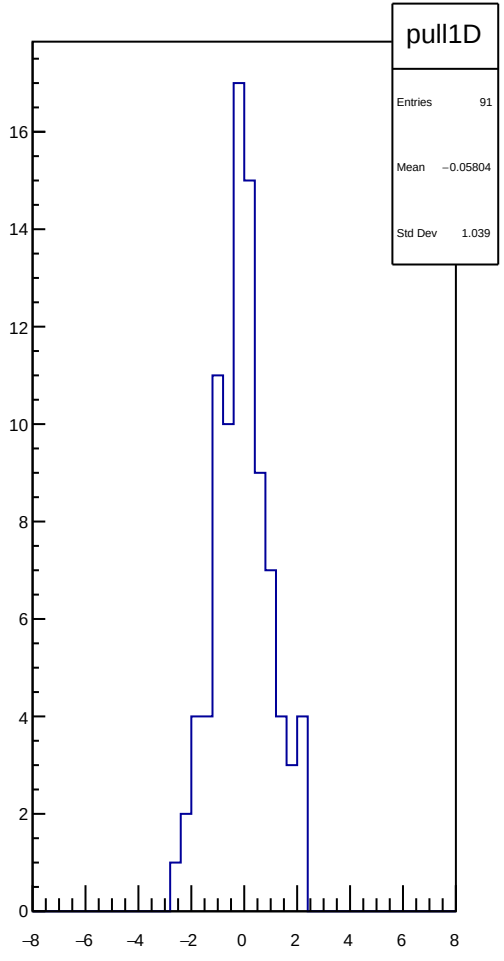

asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.826e+05 / 90
p0 490.3 ± 0.3917
900
800
700
600
500
400
300
200

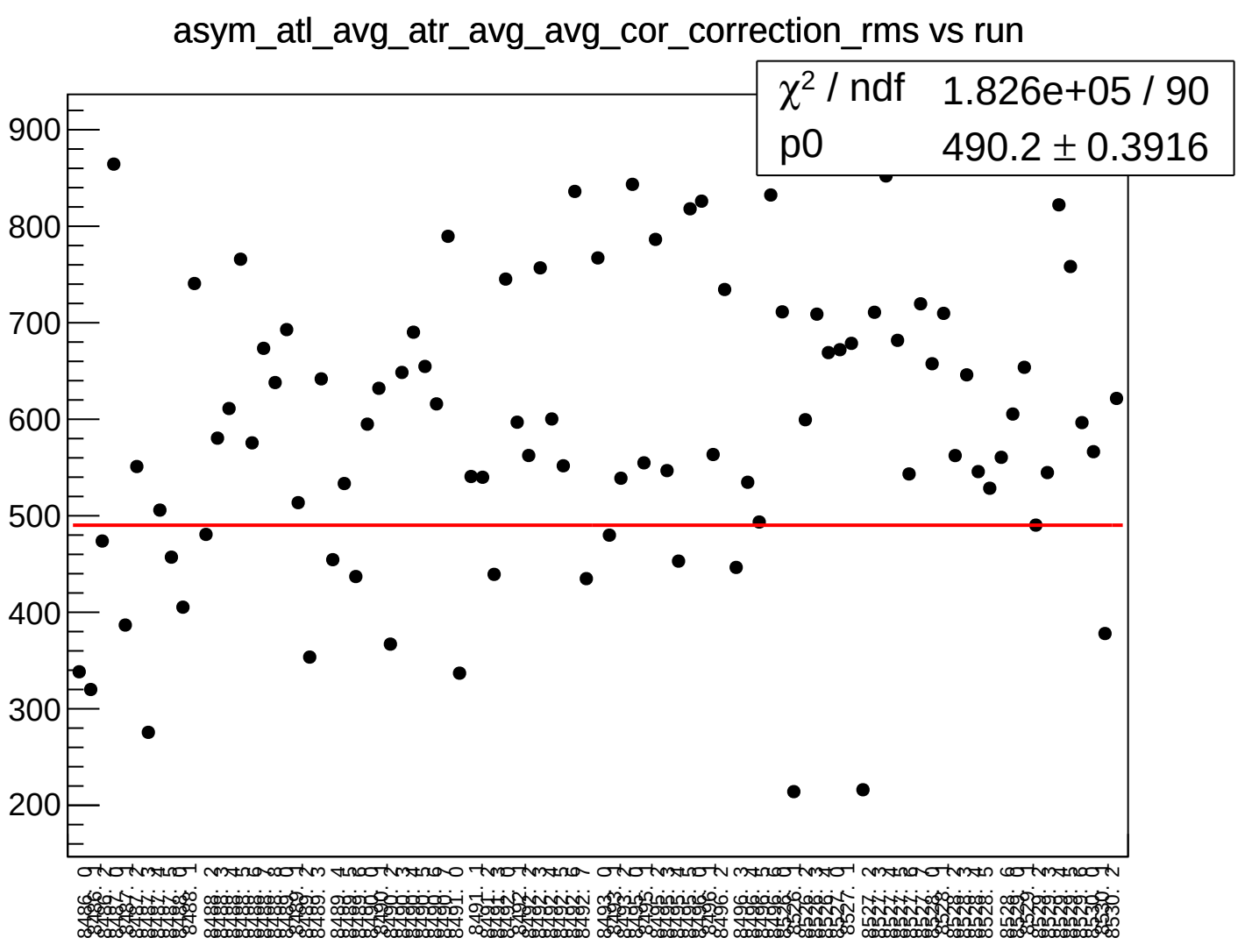

cor_asym_atl_avg_atr_avg_avg_mean vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 92.89 / 90
p0 −1.258e+04 ± 1.667e+04
pull
Entries 91
Mean −453.4
Std Dev 0
2
1
0
−1
−2

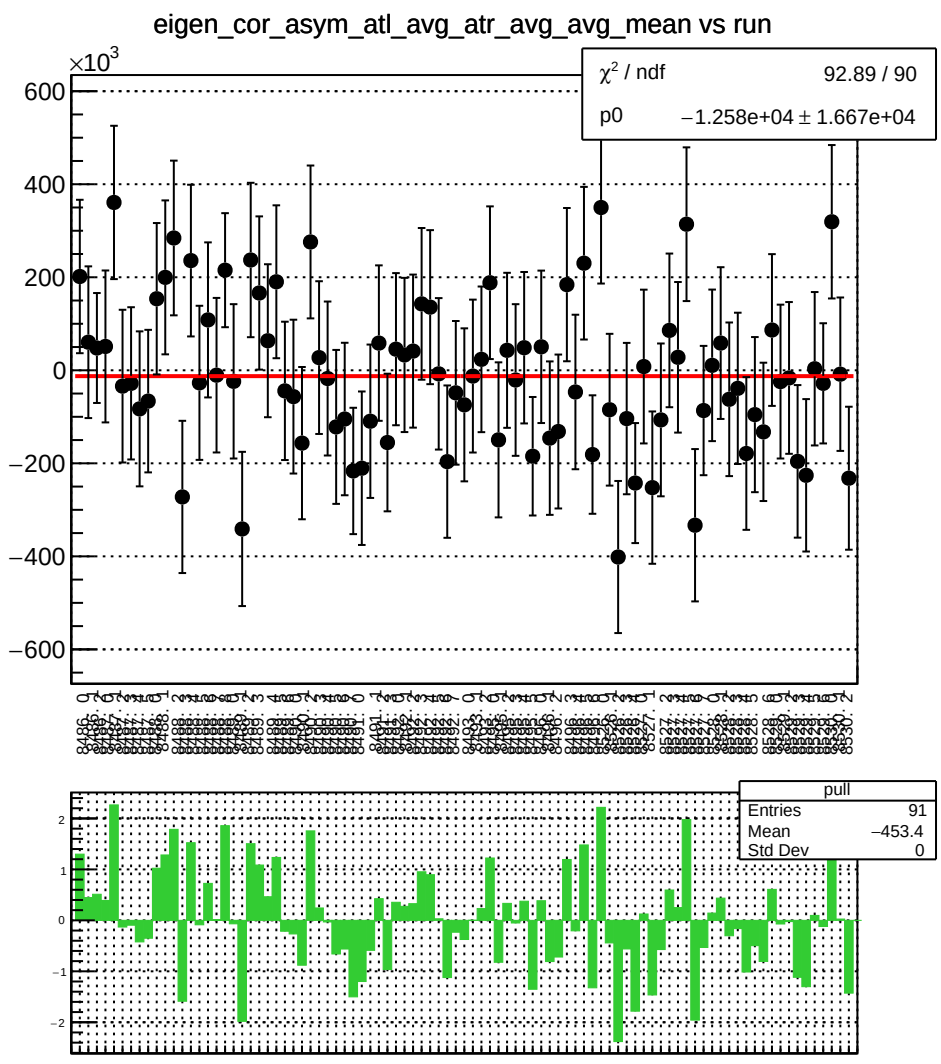

pull1D
Entries 91
Mean 0.01377
Std Dev 1.01
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

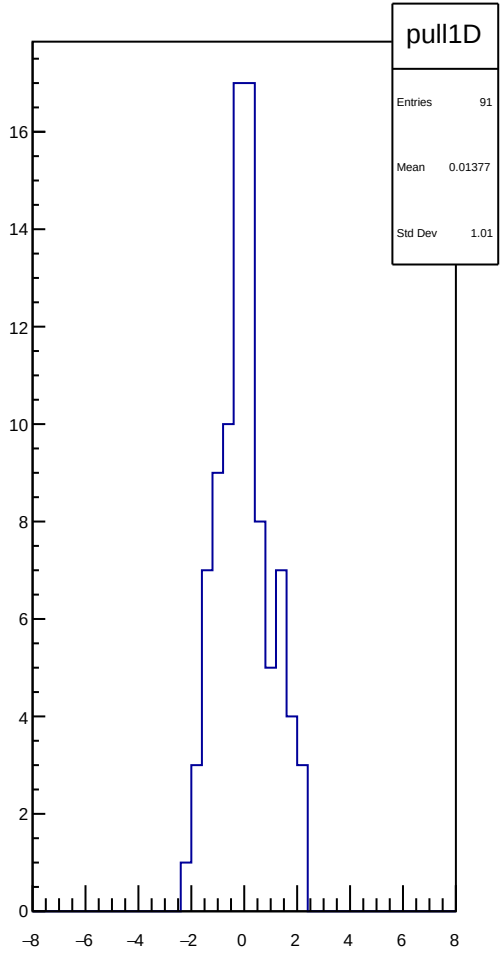

cor_asym_atl_avg_atr_avg_avg_rms vs run
χ^2 / ndf 96.88 / 90
p0 1.559e+04 ± 11.79
16000
15900
15800
15700
15600
15500
15400
15300
15200
15100

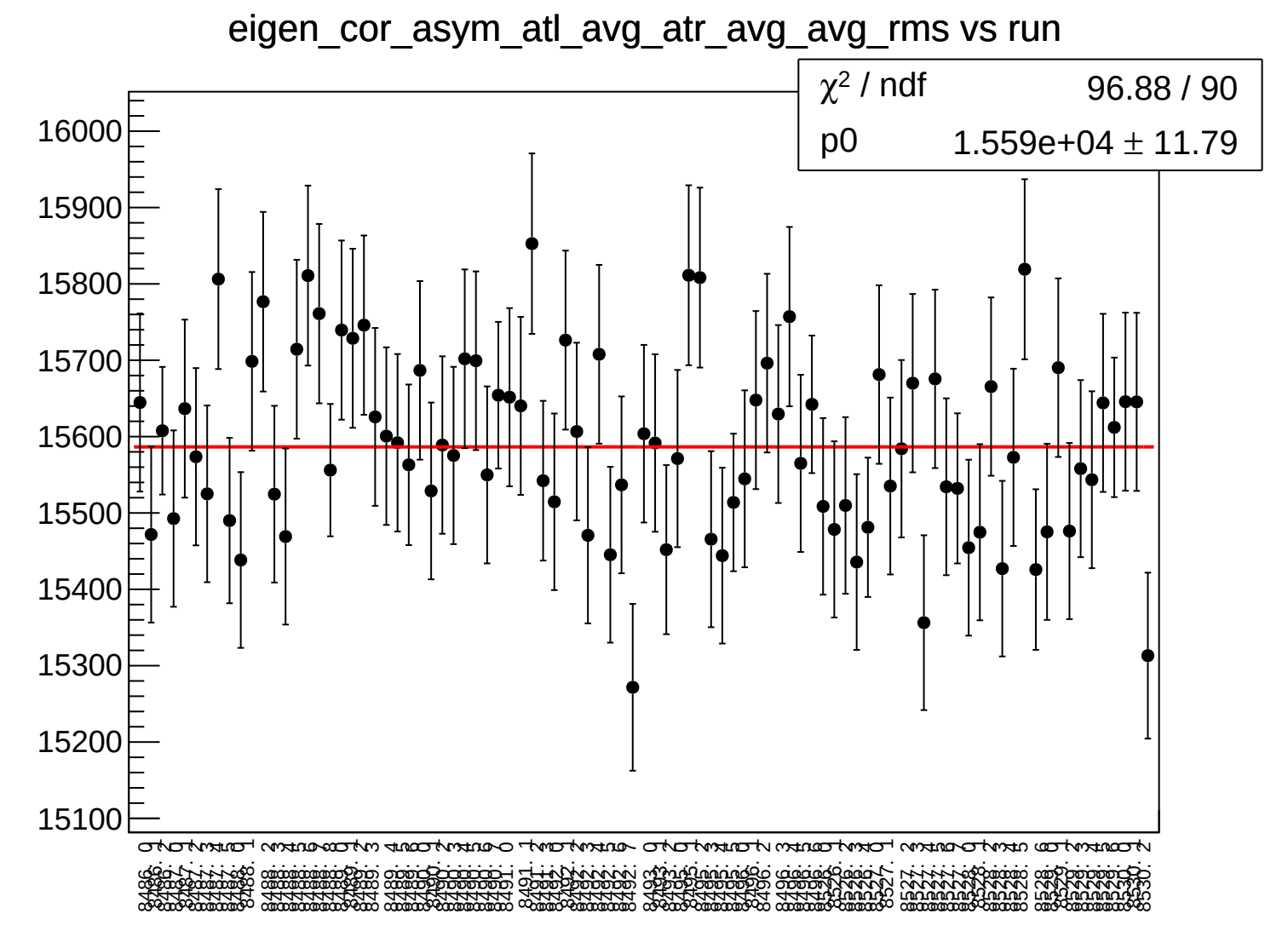

asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
χ² / ndf 98.52 / 90
p0 −322.2 ± 553.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 12.54
Std Dev 0
2
1
0
−1
−2

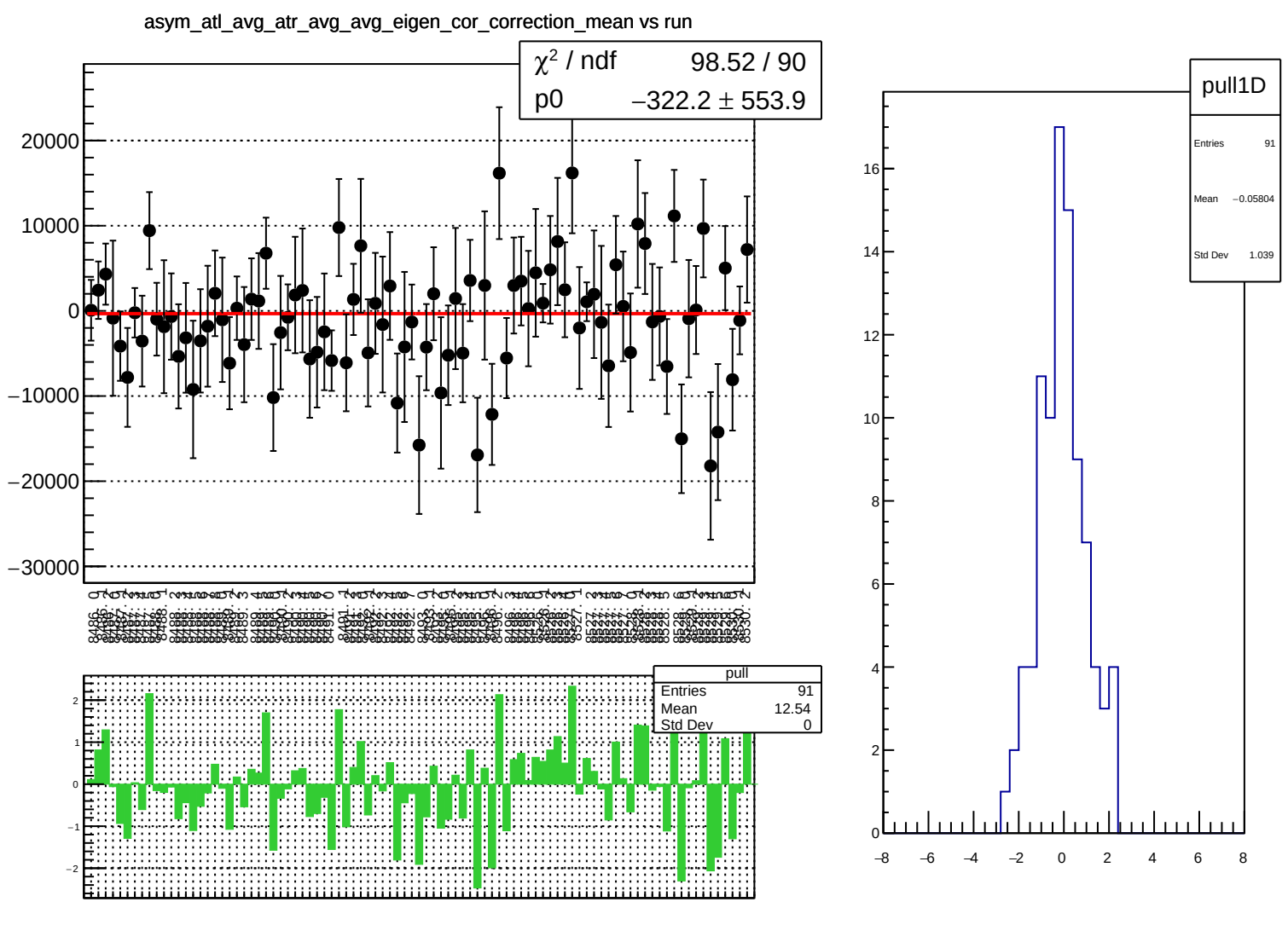

pull1D
Entries 91
Mean −0.05804
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

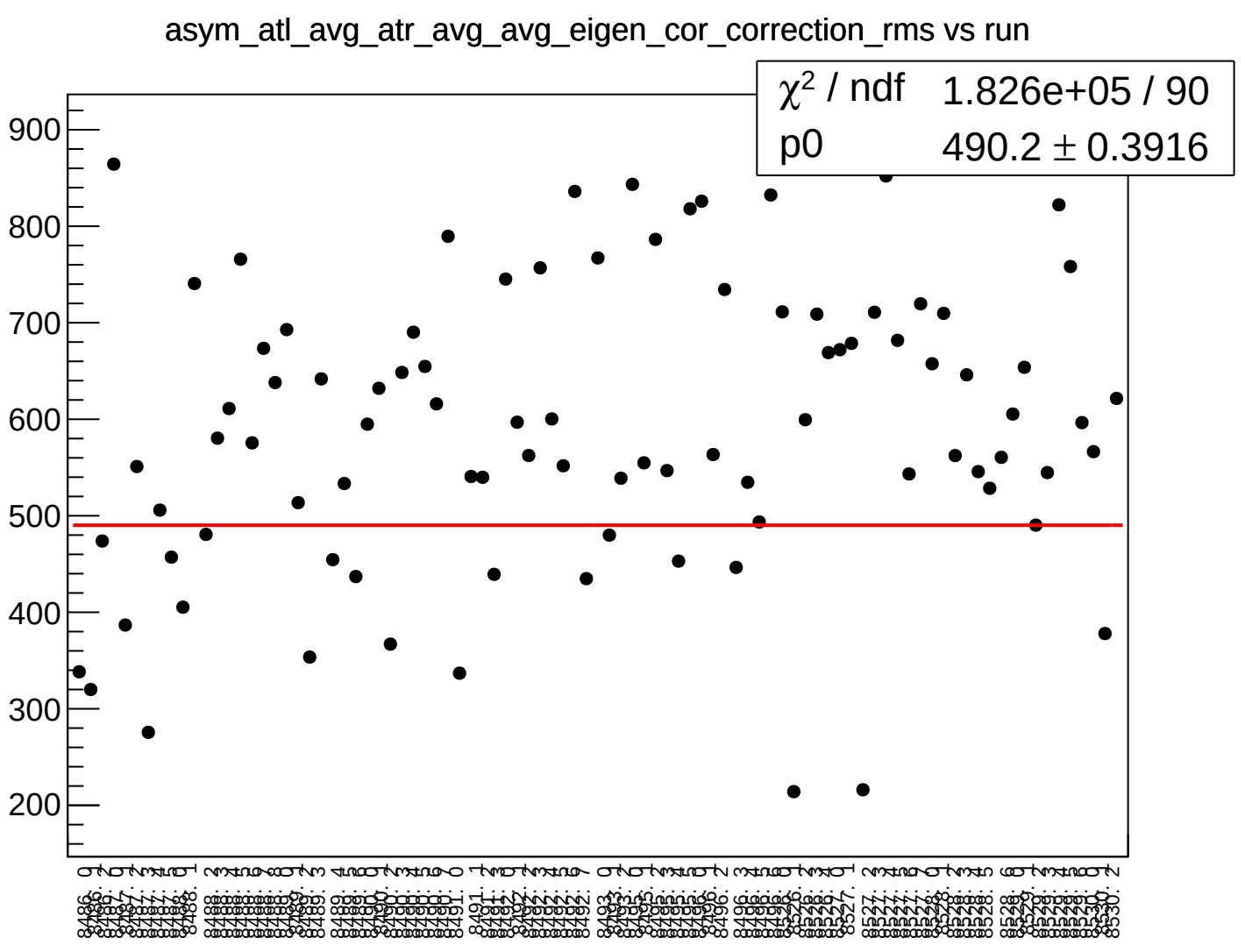

asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.826e+05 / 90
p0 490.2 ± 0.3916
900
800
700
600
500
400
300
200

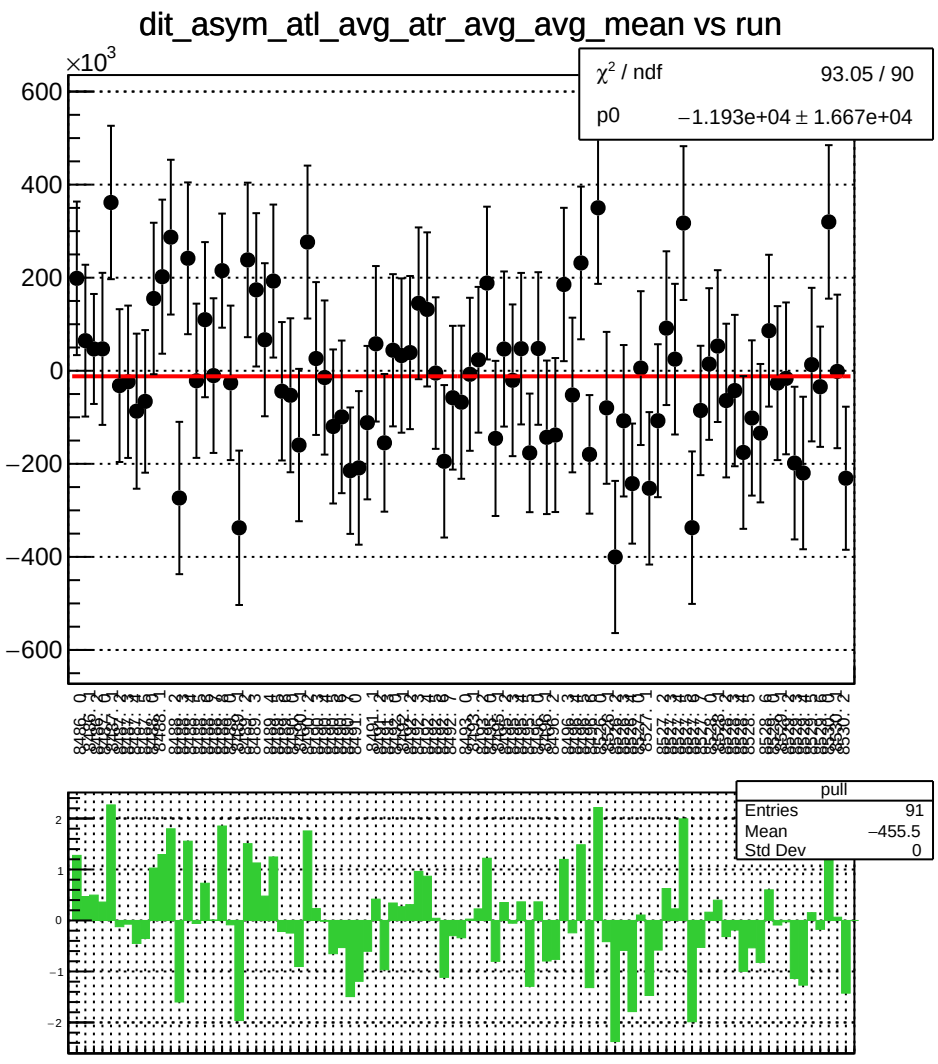

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 92.89 / 90
p0 −1.258e+04 ± 1.667e+04
pull
Entries 91
Mean −453.4
Std Dev 0
2
1
0
−1
−2

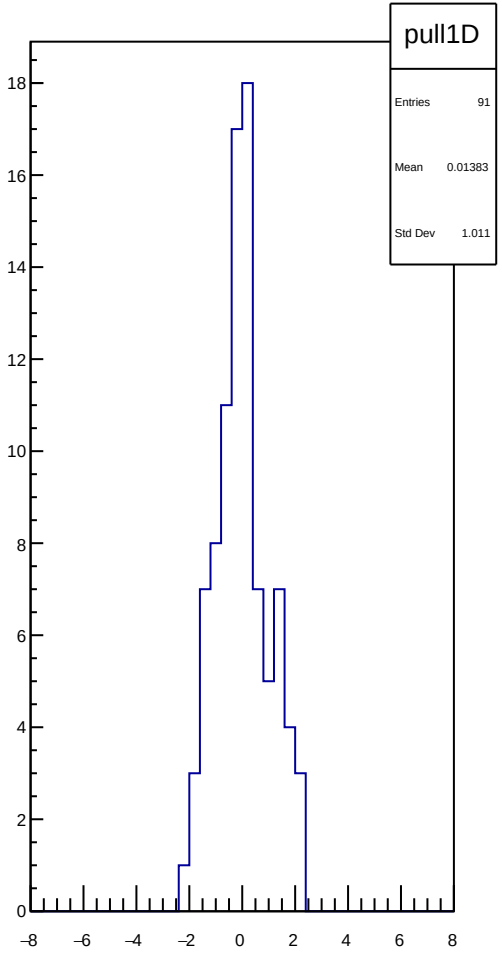

pull1D
Entries 91
Mean 0.01377
Std Dev 1.01
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

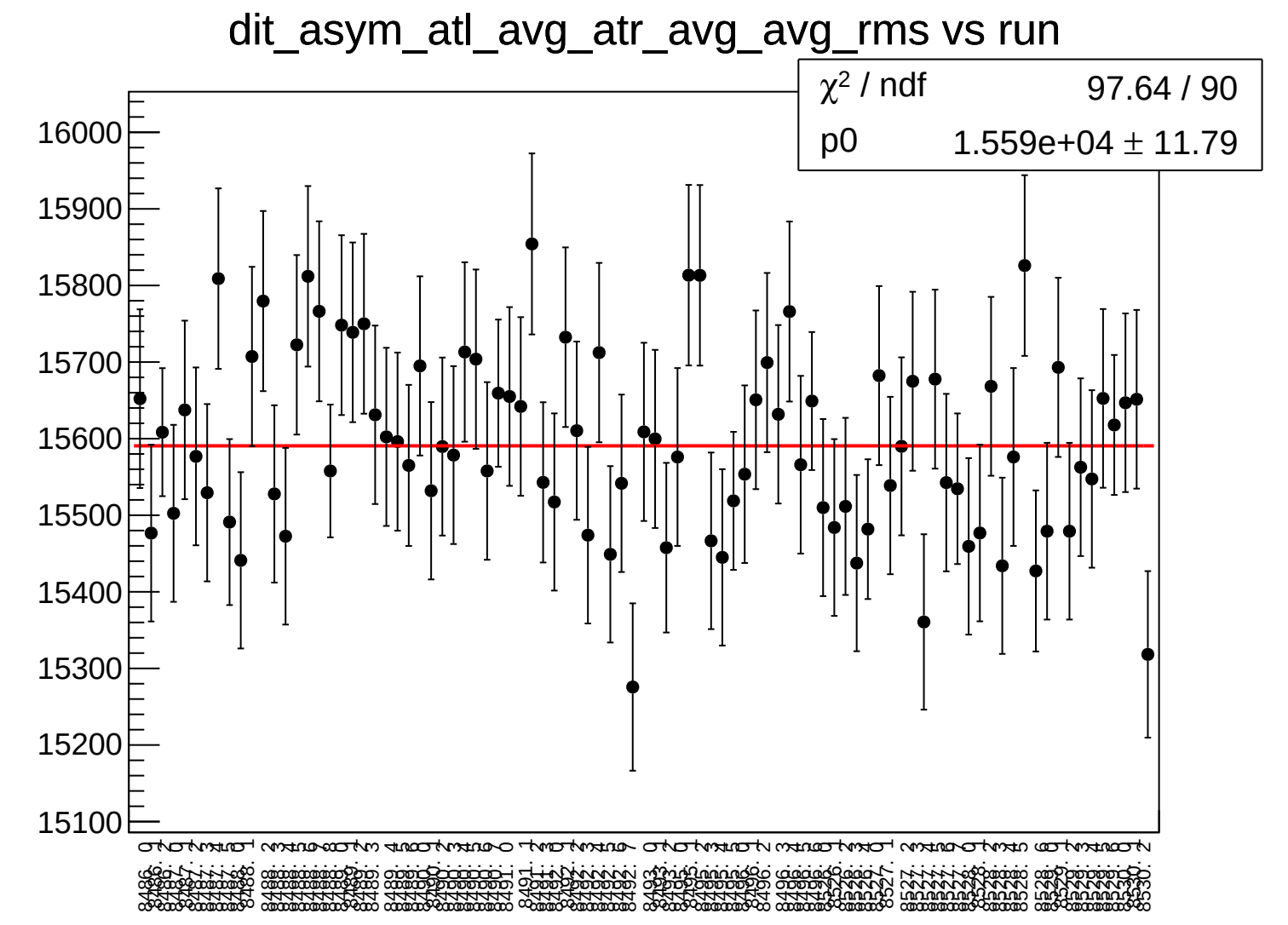

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 96.88 / 90
p0 1.559e+04 ± 11.79
16000
15900
15800
15700
15600
15500
15400
15300
15200
15100

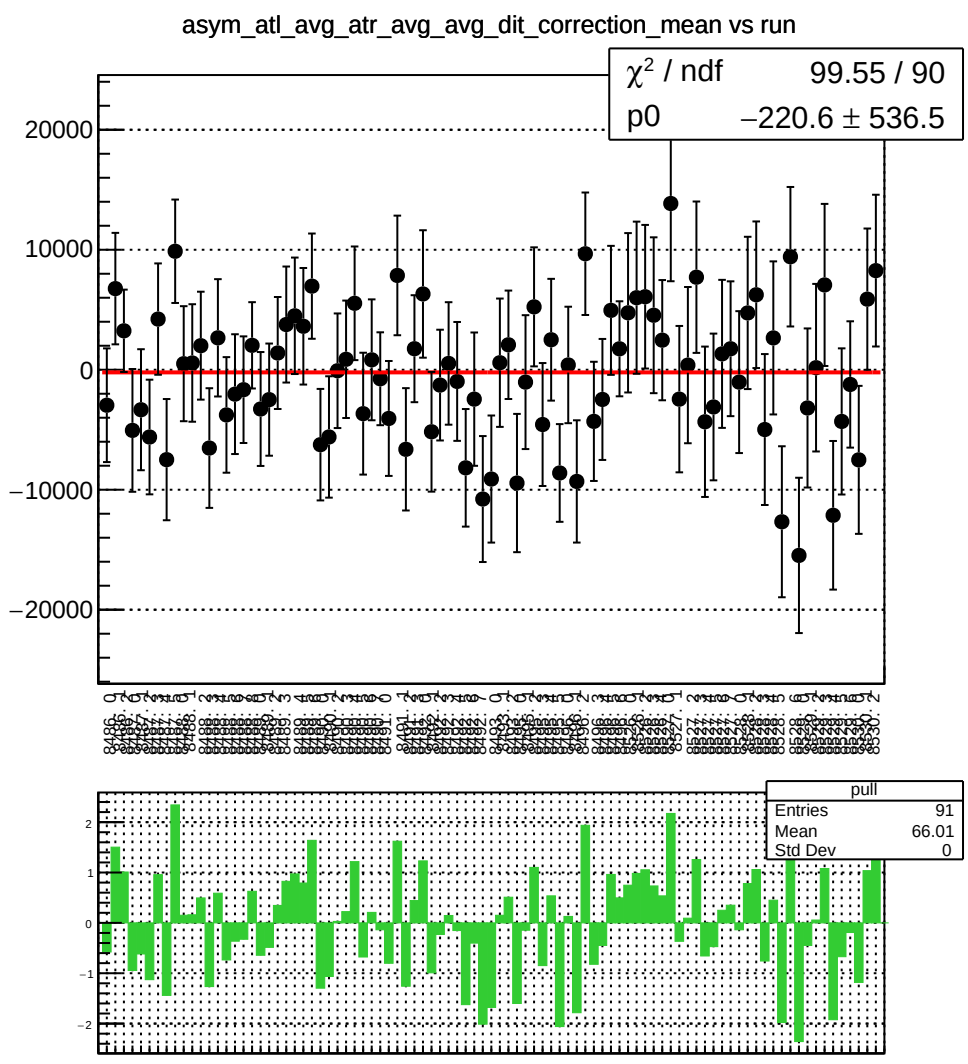

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
χ² / ndf 98.52 / 90
p0 −322.2 ± 553.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 12.54
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.05804
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

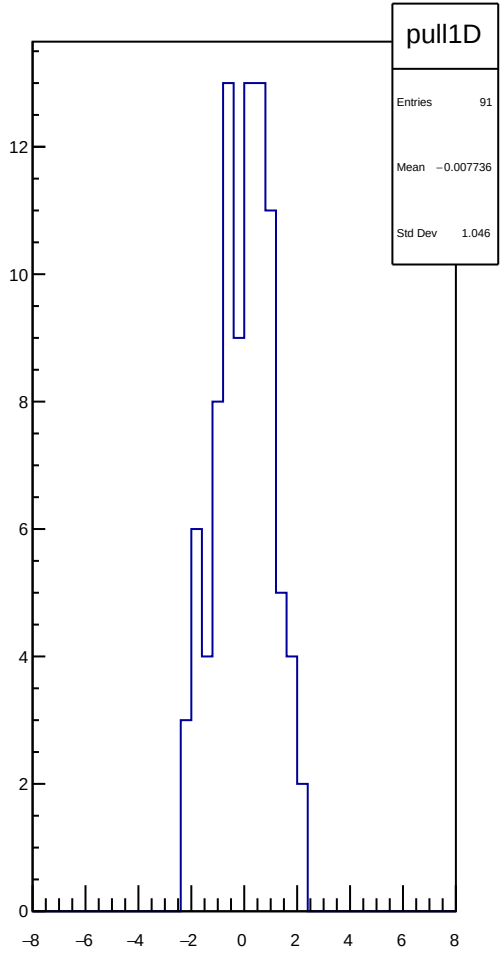

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.826e+05 / 90
p0 490.2 ± 0.3916
900
800
700
600
500
400
300
200

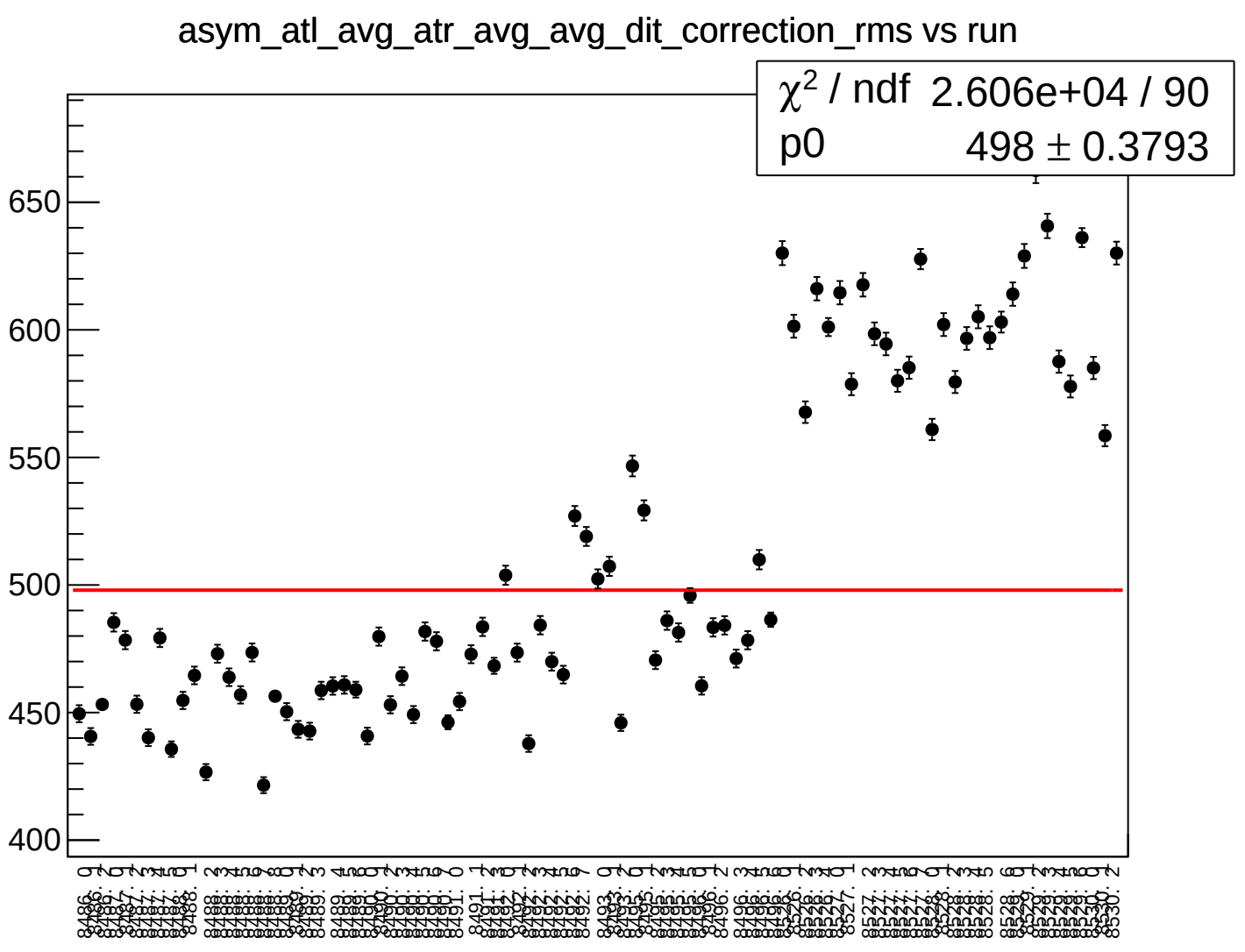

dit_asym_atl_avg_atr_avg_avg_mean vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 93.05 / 90
p0 −1.193e+04 ± 1.667e+04
pull
Entries 91
Mean −455.5
Std Dev 0
2
1
0
−1
−2

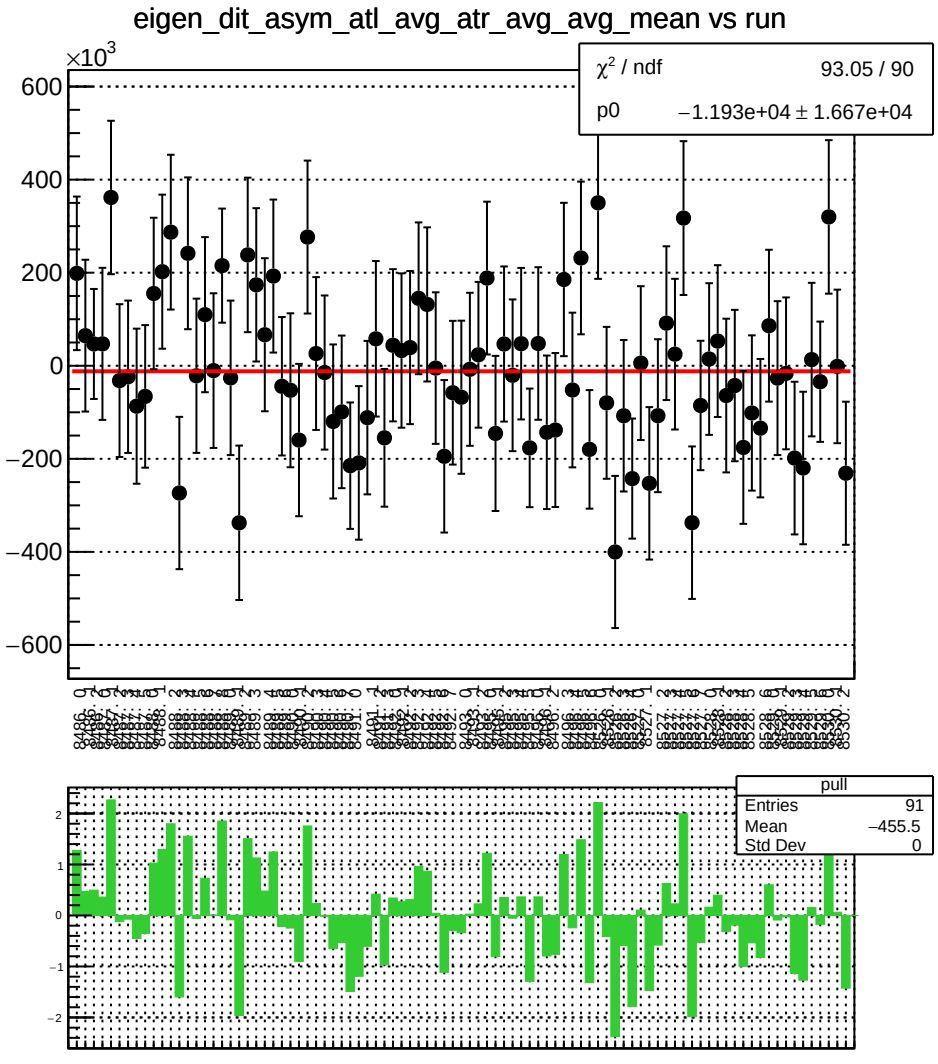

pull1D
Entries 91
Mean 0.01383
Std Dev 1.011
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

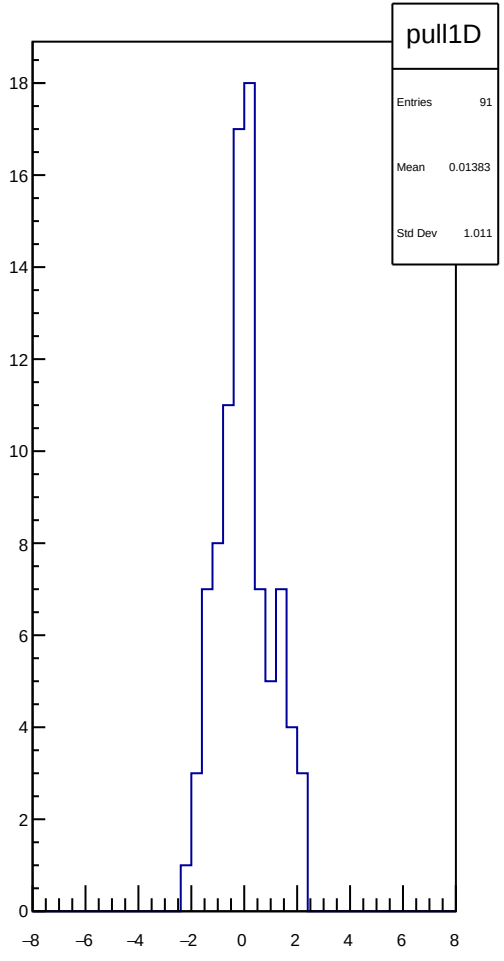

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 97.64 / 90
p0 1.559e+04 ± 11.79
16000
15900
15800
15700
15600
15500
15400
15300
15200
15100

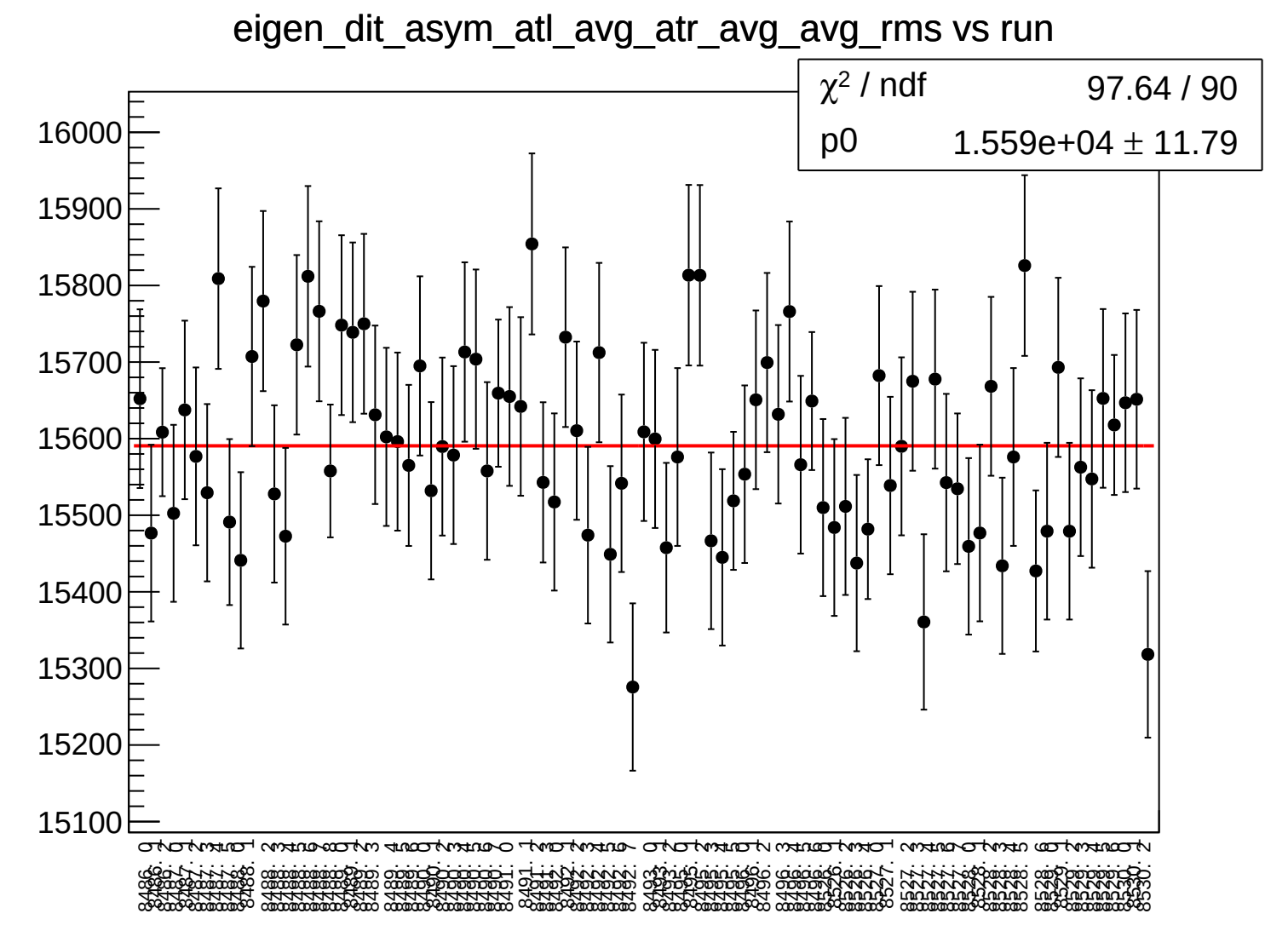

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
χ² / ndf 99.55 / 90
p0 −220.6 ± 536.5
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 66.01
Std Dev 0
2
1
0
−1
−2

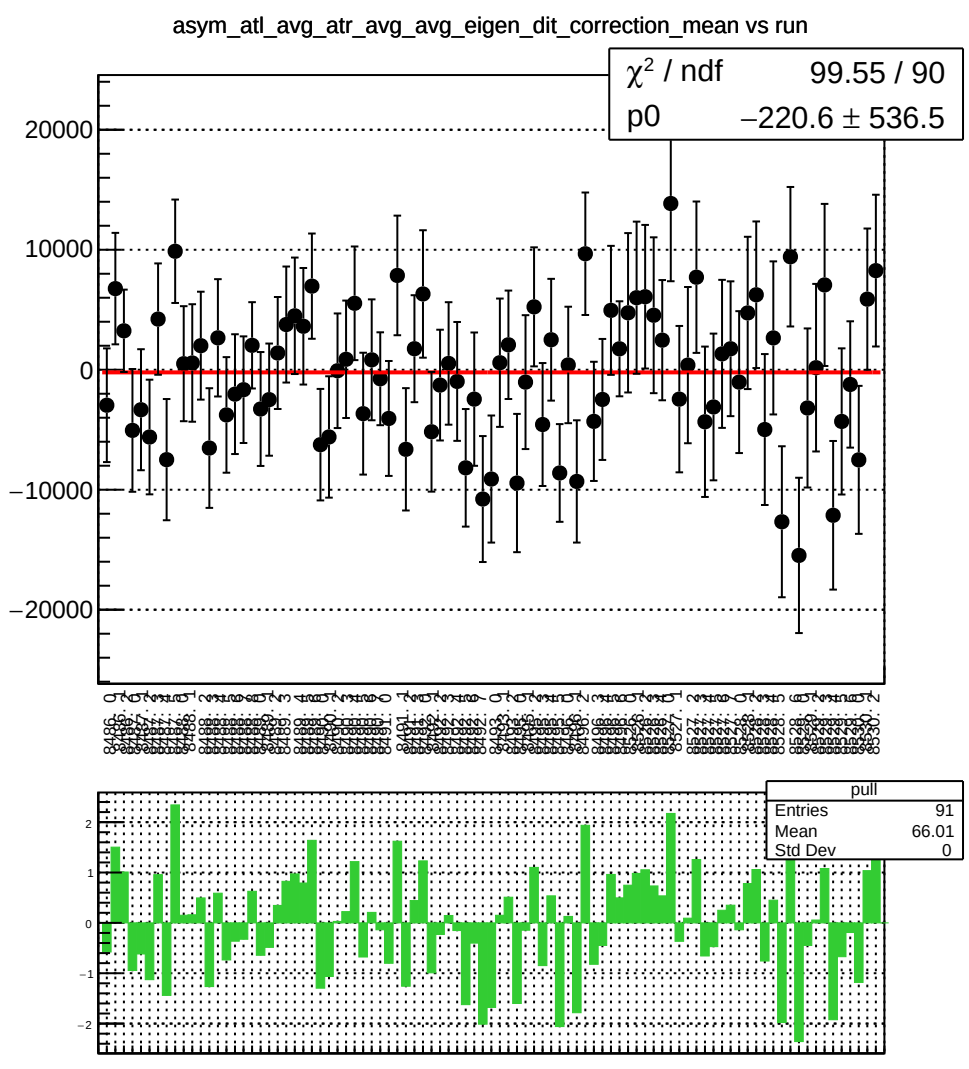

pull1D
Entries 91
Mean −0.007736
Std Dev 1.046
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

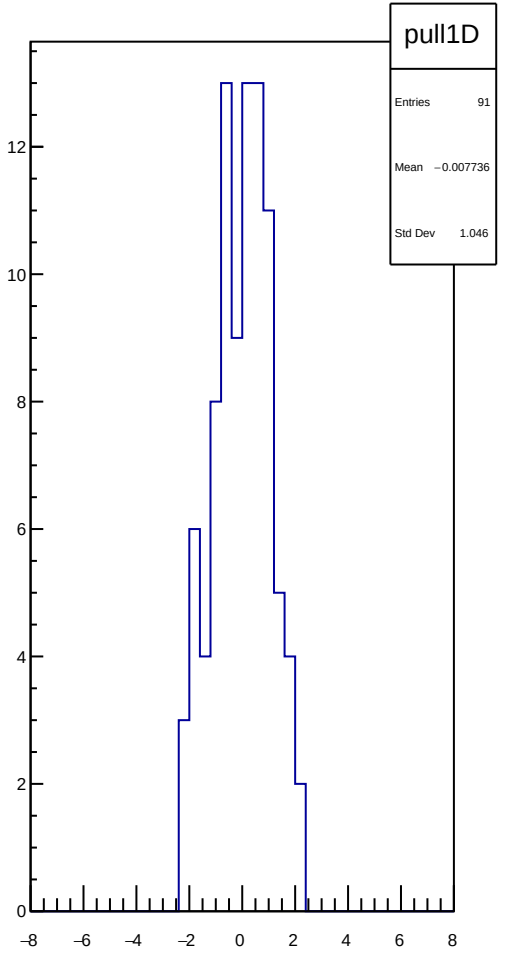

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 2.606e+04 / 90
p0 498 ± 0.3793
650
600
550
500
450
400

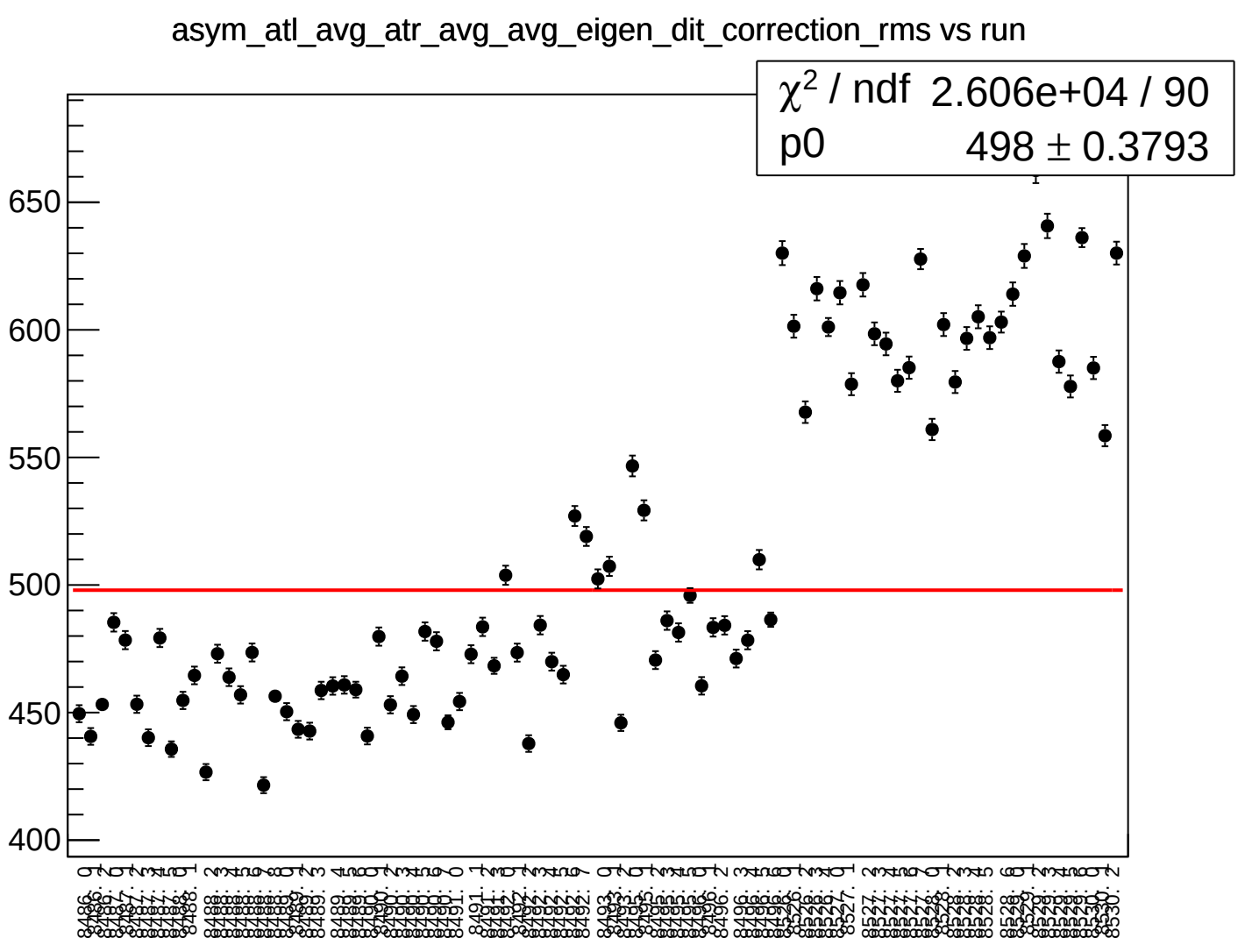

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 93.05 / 90
p0 −1.193e+04 ± 1.667e+04
pull
Entries 91
Mean −455.5
Std Dev 0

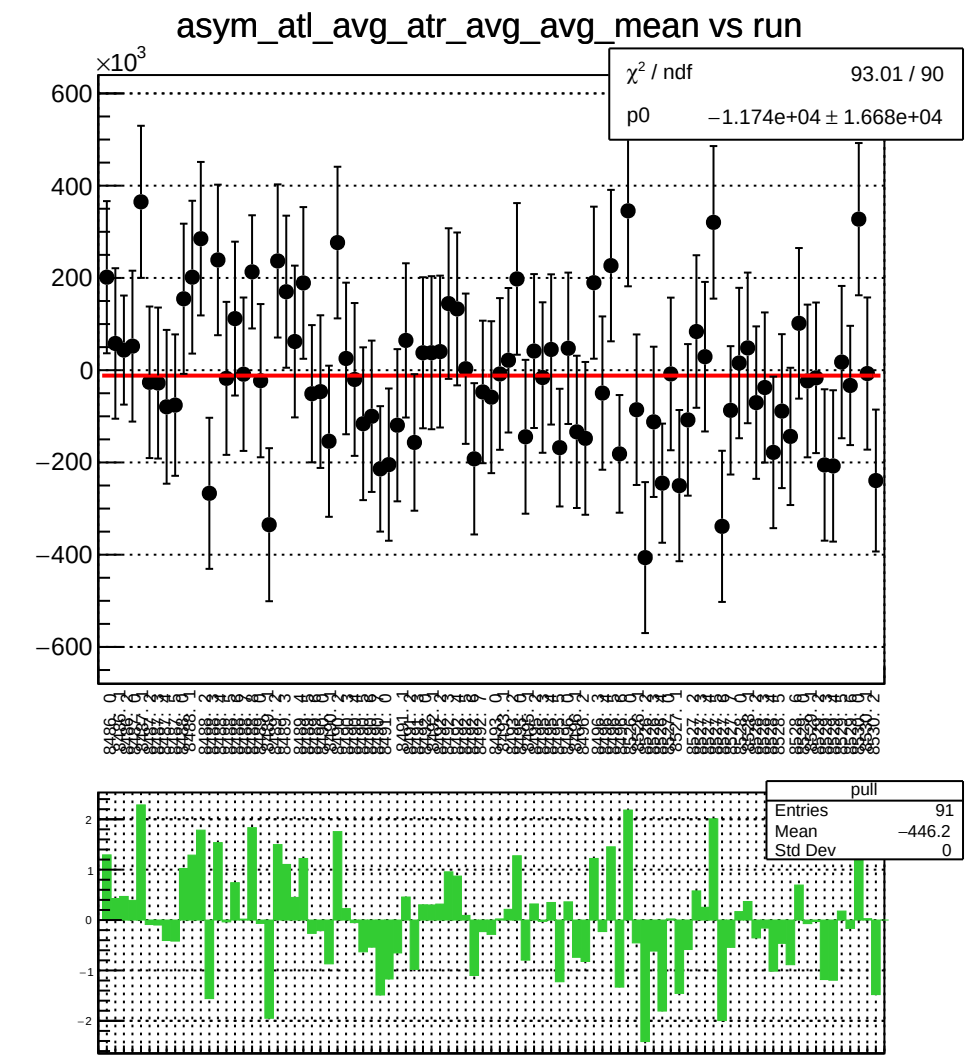

pull1D
Entries 91
Mean 0.01383
Std Dev 1.011

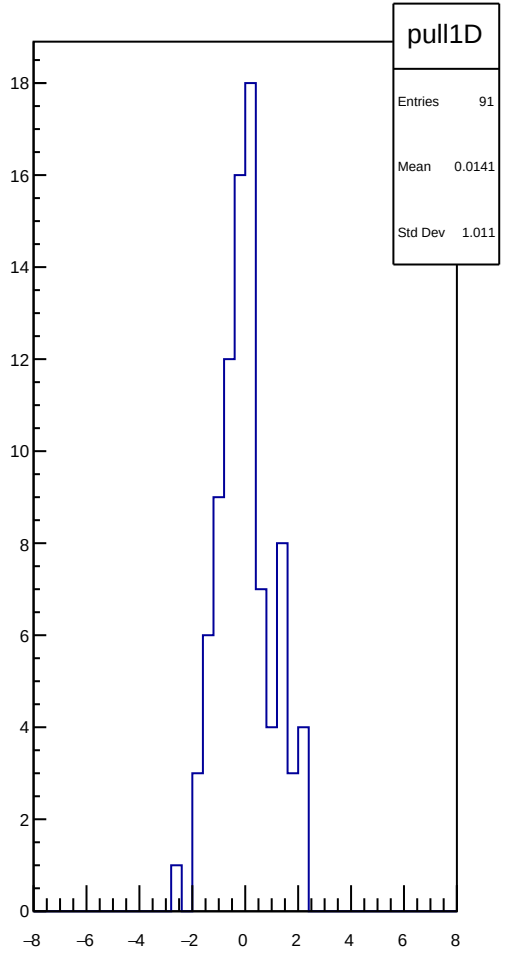

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 97.64 / 90
p0 1.559e+04 ± 11.79
16000
15900
15800
15700
15600
15500
15400
15300
15200
15100

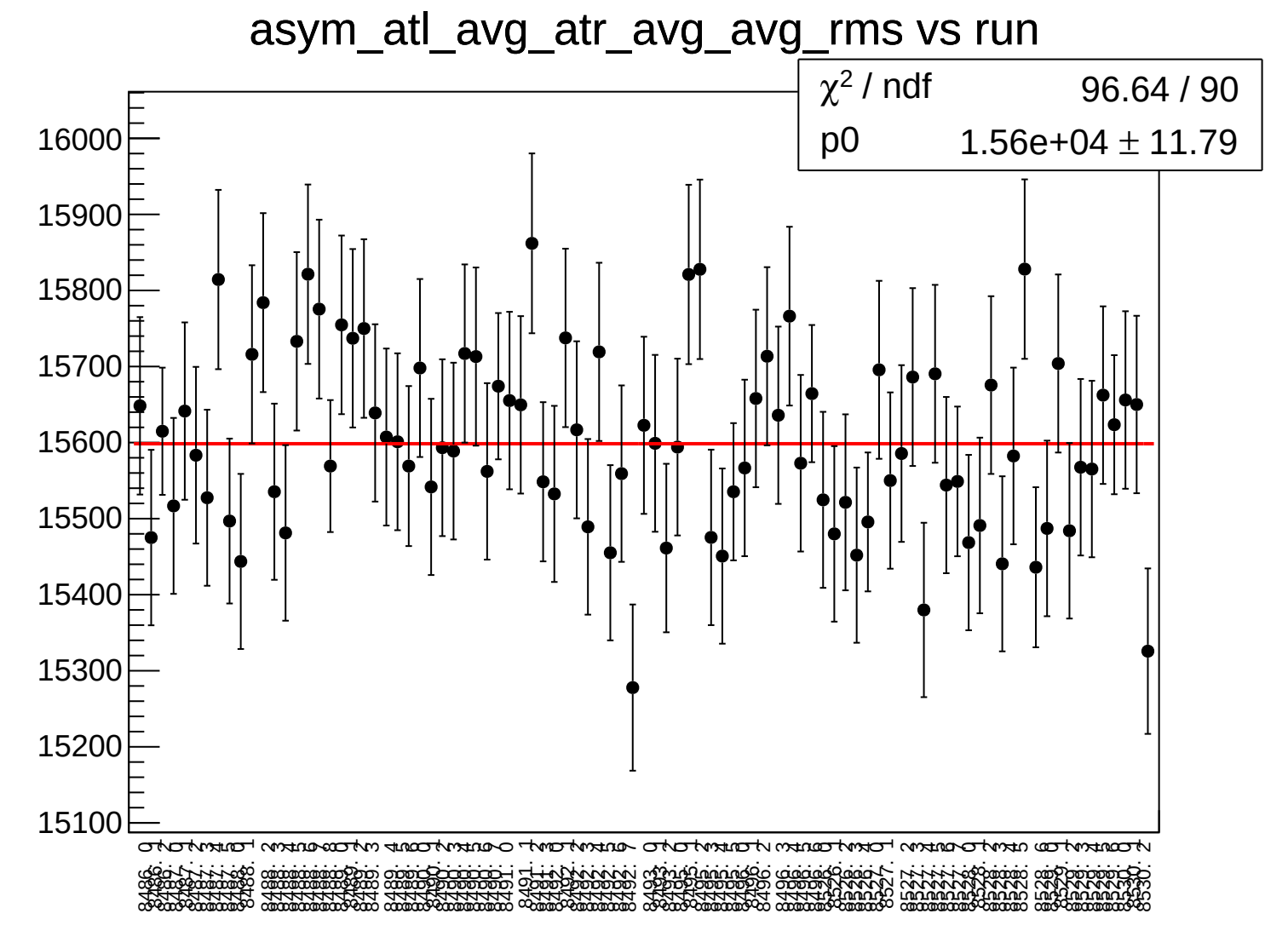

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
χ² / ndf 99.55 / 90
p0 −220.6 ± 536.5
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 66.01
Std Dev 0
2
1
0
−1
−2

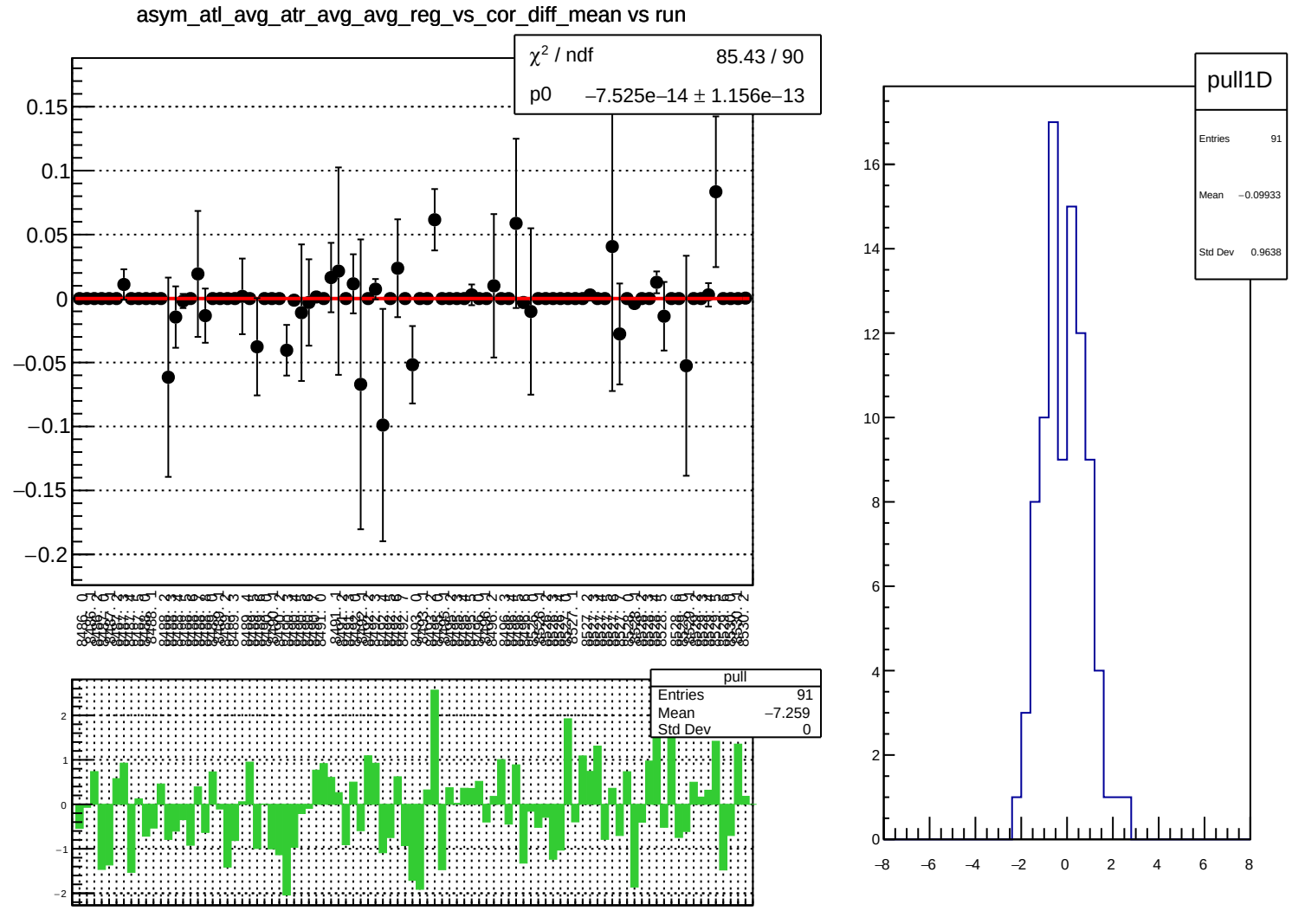

pull1D
Entries 91
Mean −0.007736
Std Dev 1.046
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

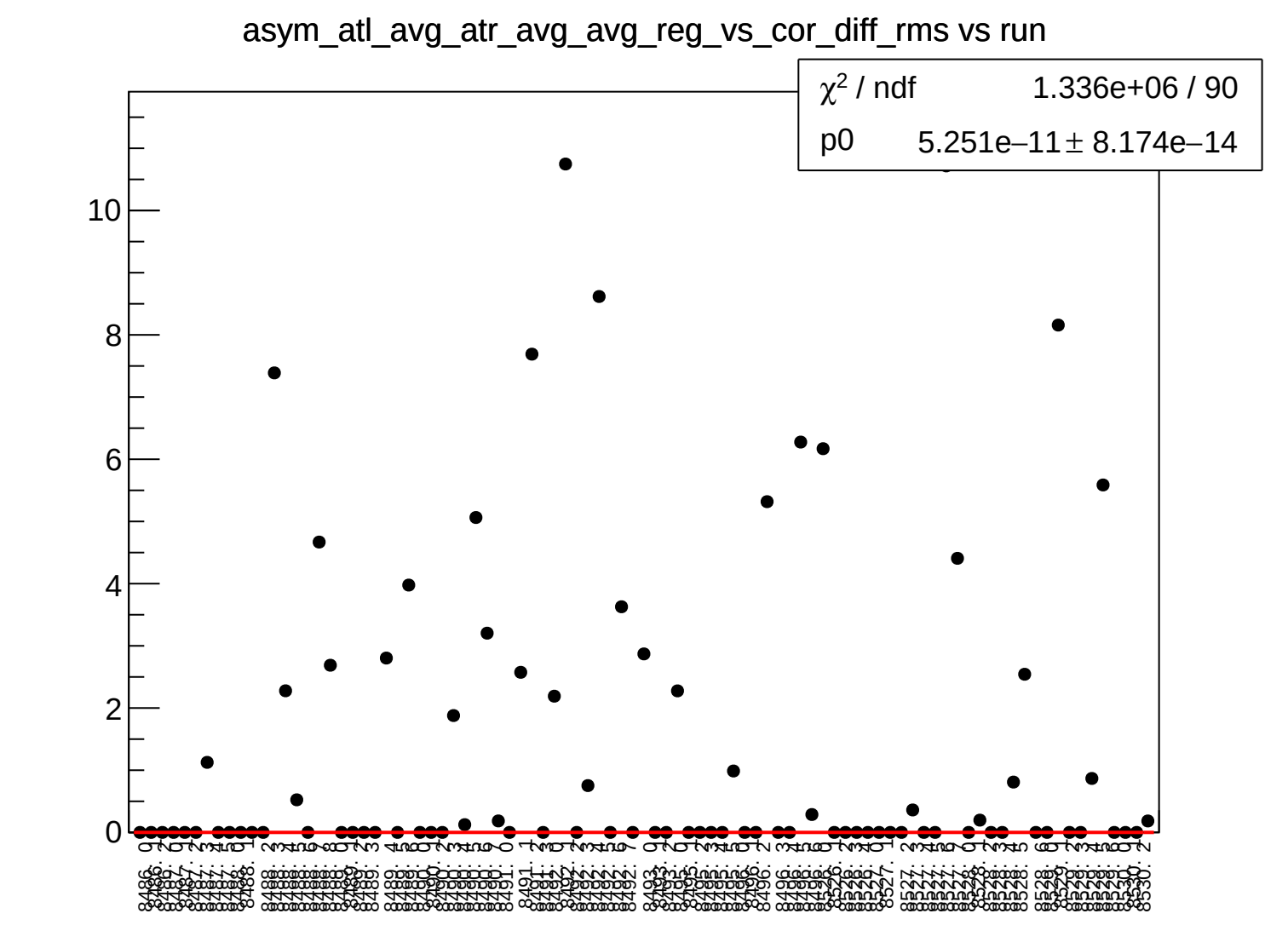

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.606e+04 / 90
p0 498 ± 0.3793
650
600
550
500
450
400

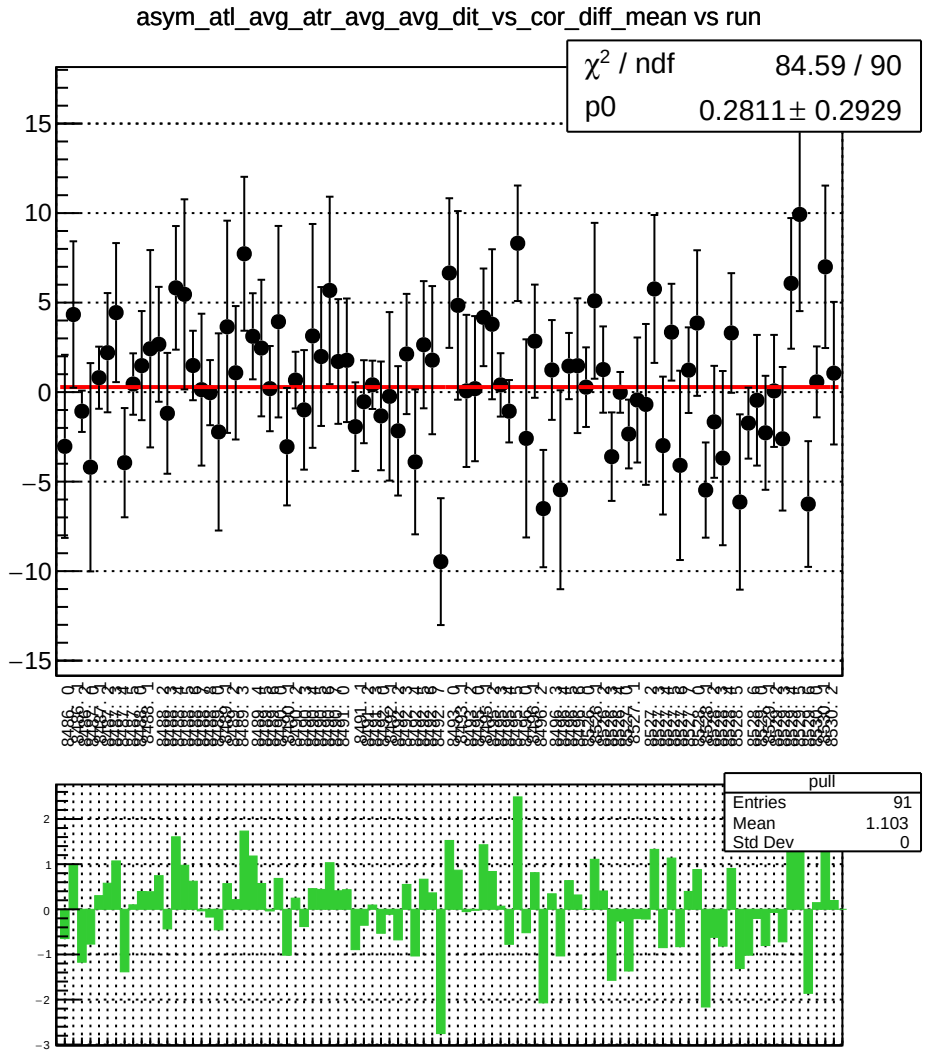

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 93.01 / 90
p0 −1.174e+04 ± 1.668e+04
pull
Entries 91
Mean −446.2
Std Dev 0
2
1
0
−1
−2

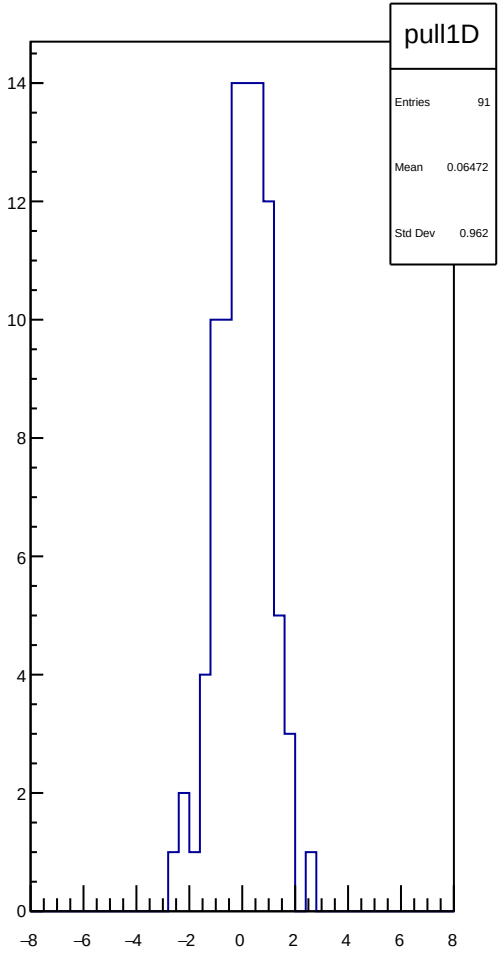

pull1D
Entries 91
Mean 0.0141
Std Dev 1.011
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

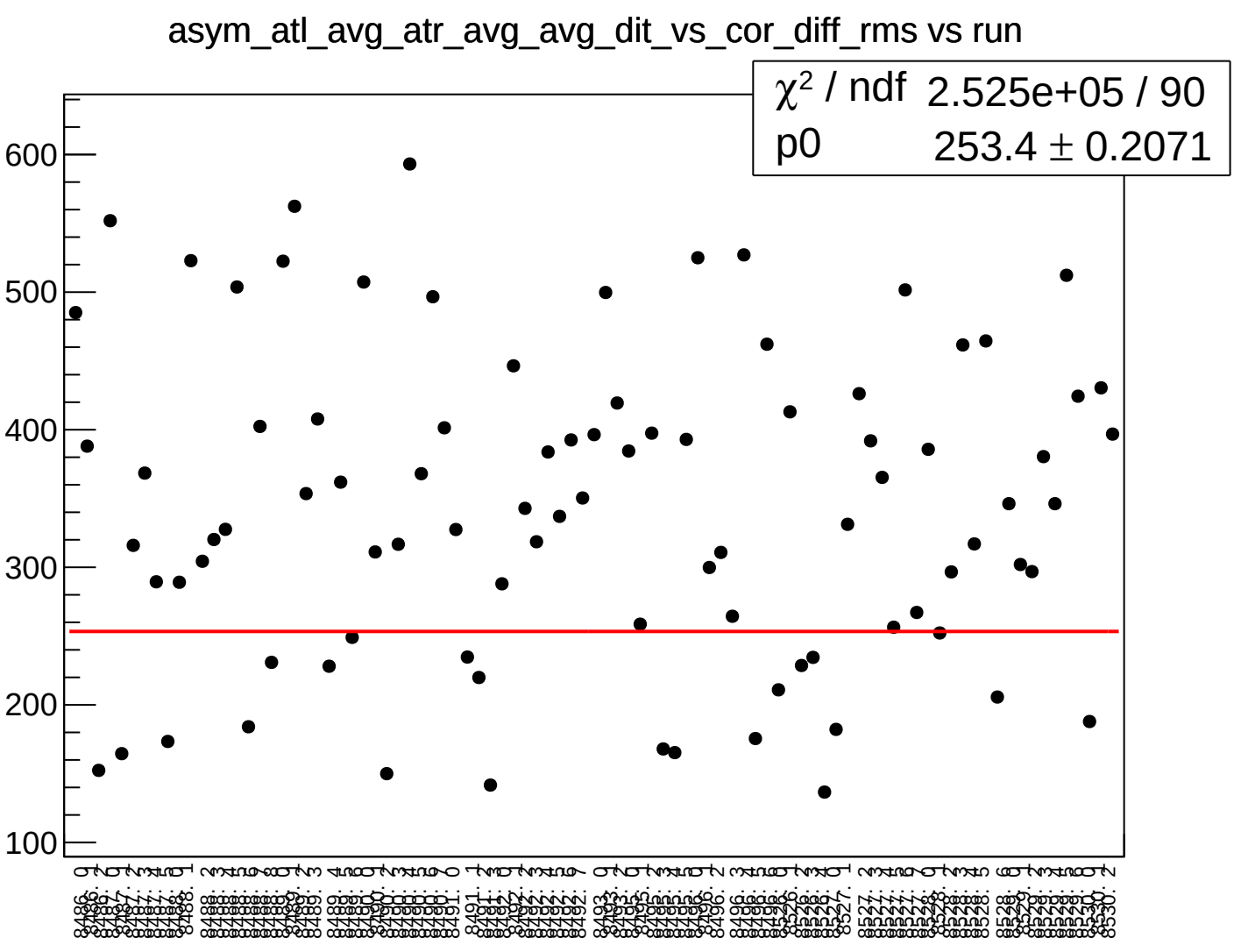

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 96.64 / 90
p0 1.56e+04 ± 11.79
16000
15900
15800
15700
15600
15500
15400
15300
15200
15100

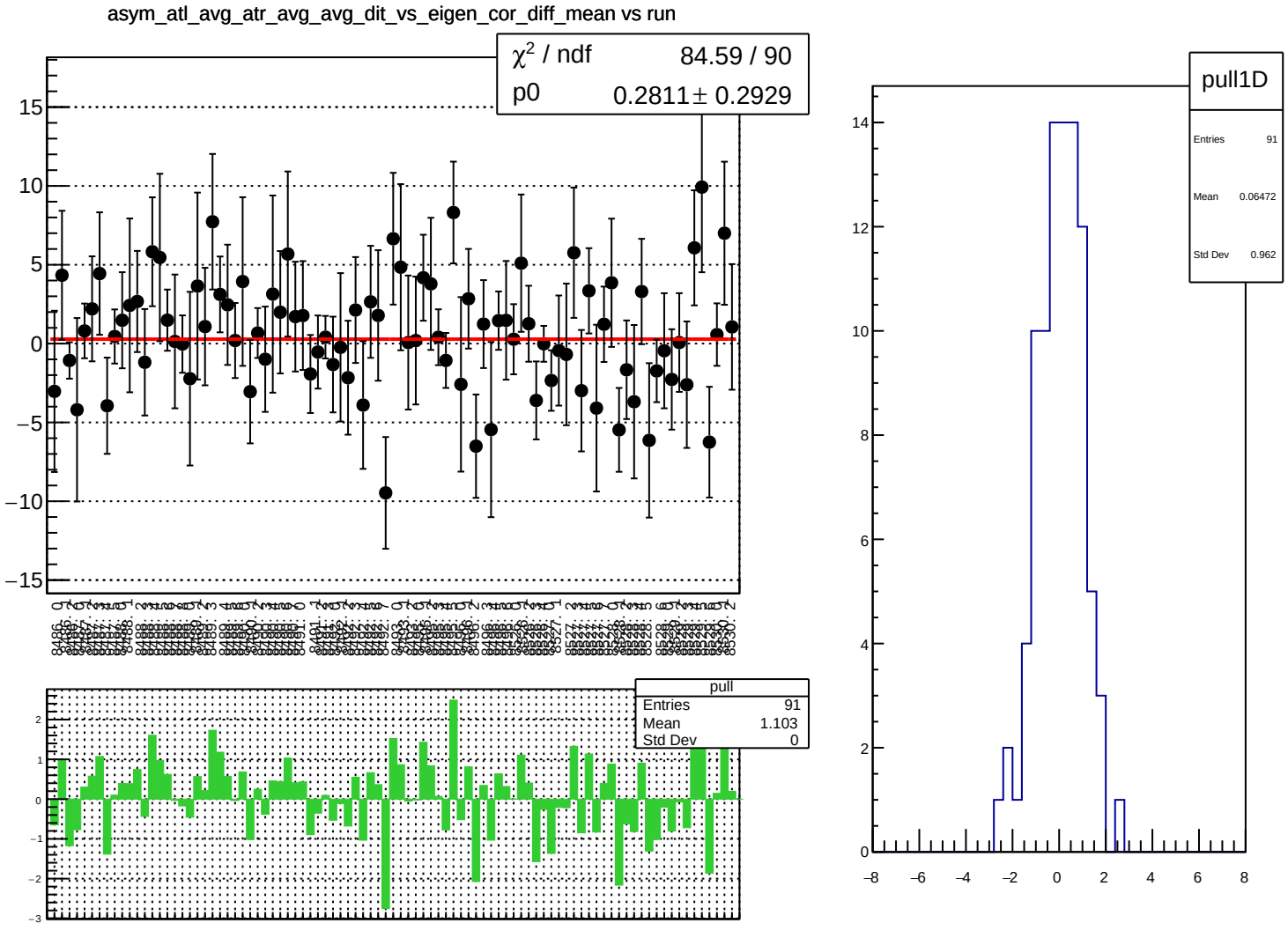

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 85.43 / 90
p0 −7.525e−14 ± 1.156e−13
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 91
Mean −7.259
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.09933
Std Dev 0.9638
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

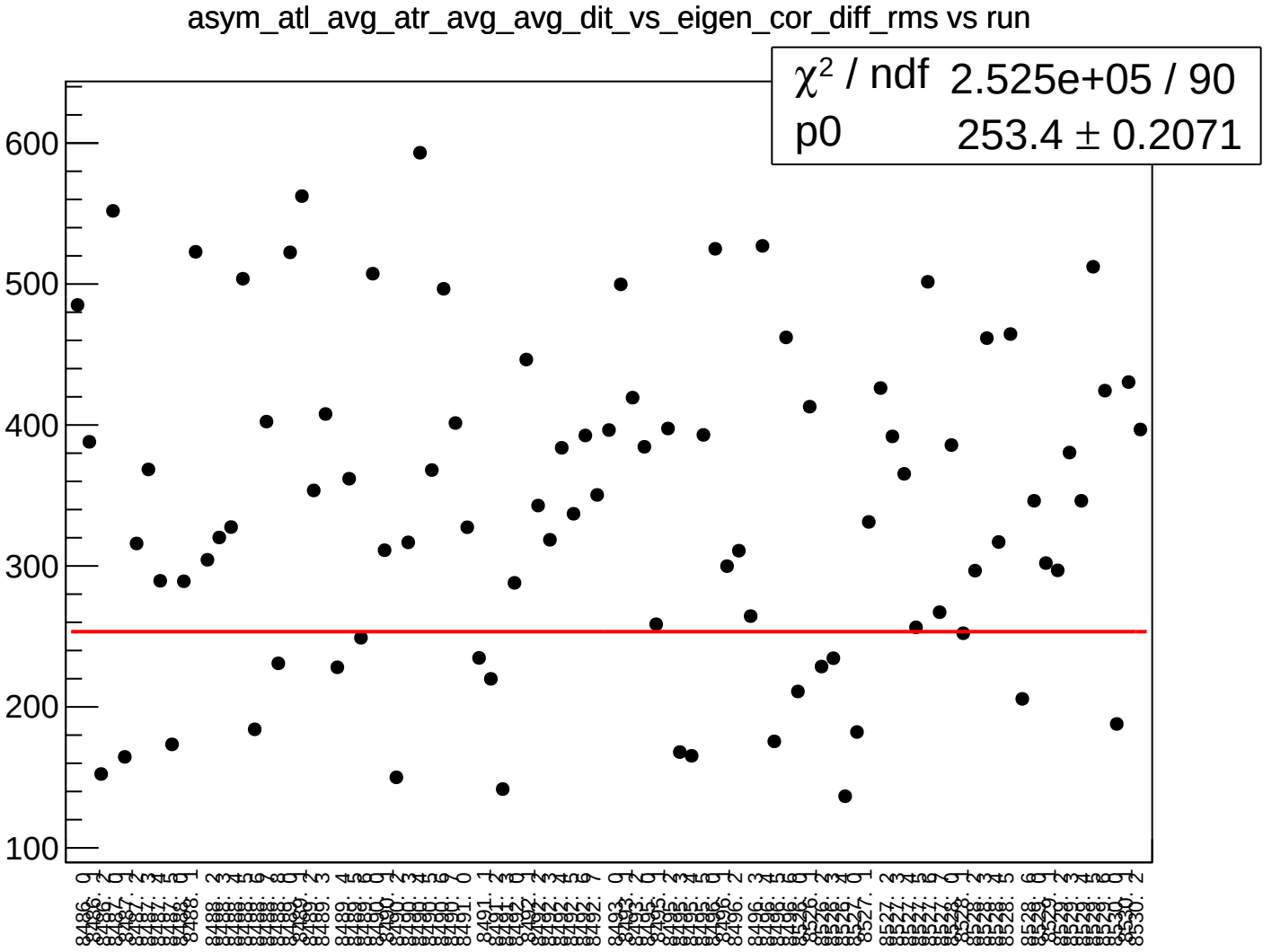

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.336e+06 / 90
p0 5.251e−11 ± 8.174e−14
0
2
4
6
8
10

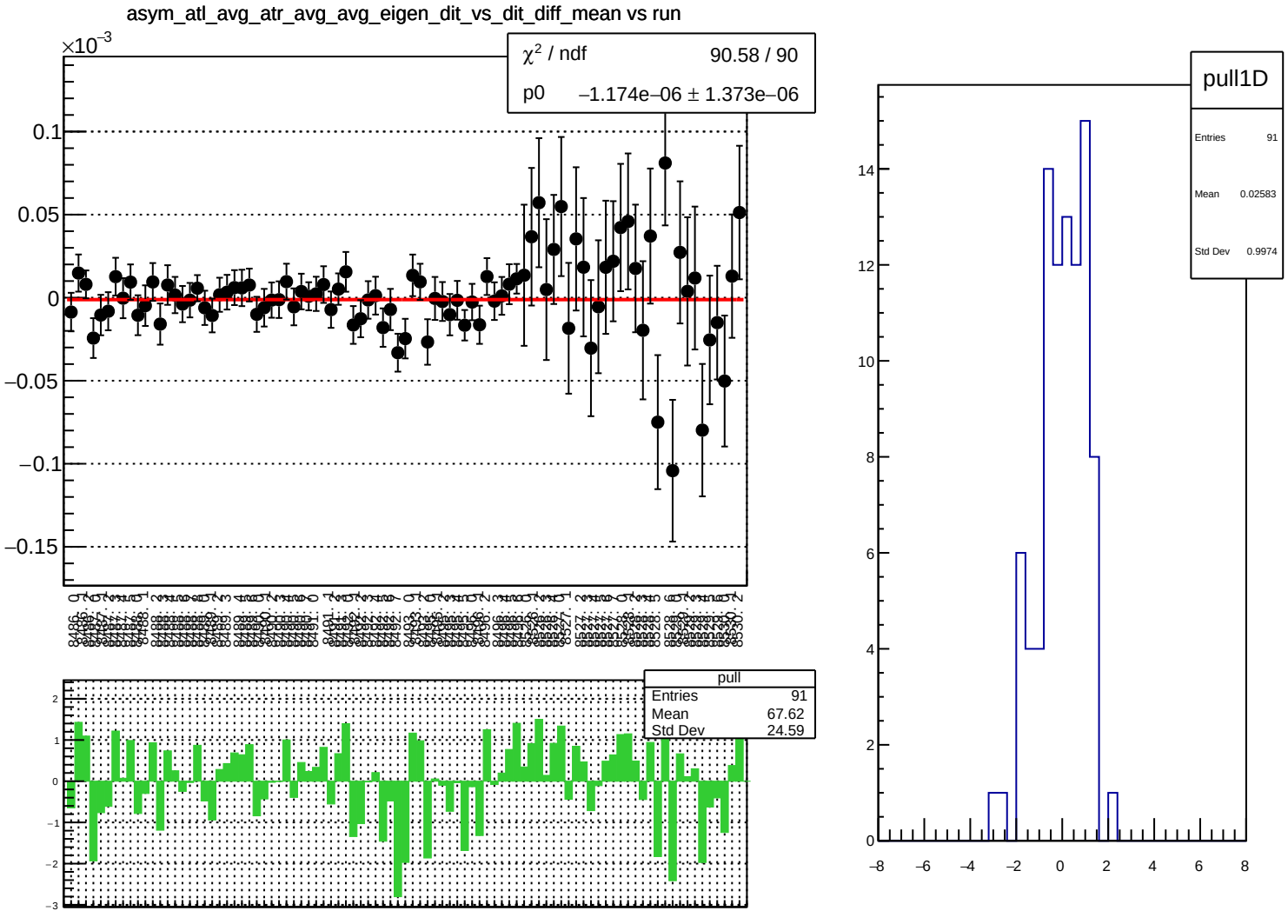

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 84.59 / 90
p0 0.2811 ± 0.2929
pull
Entries 91
Mean 1.103
Std Dev 0

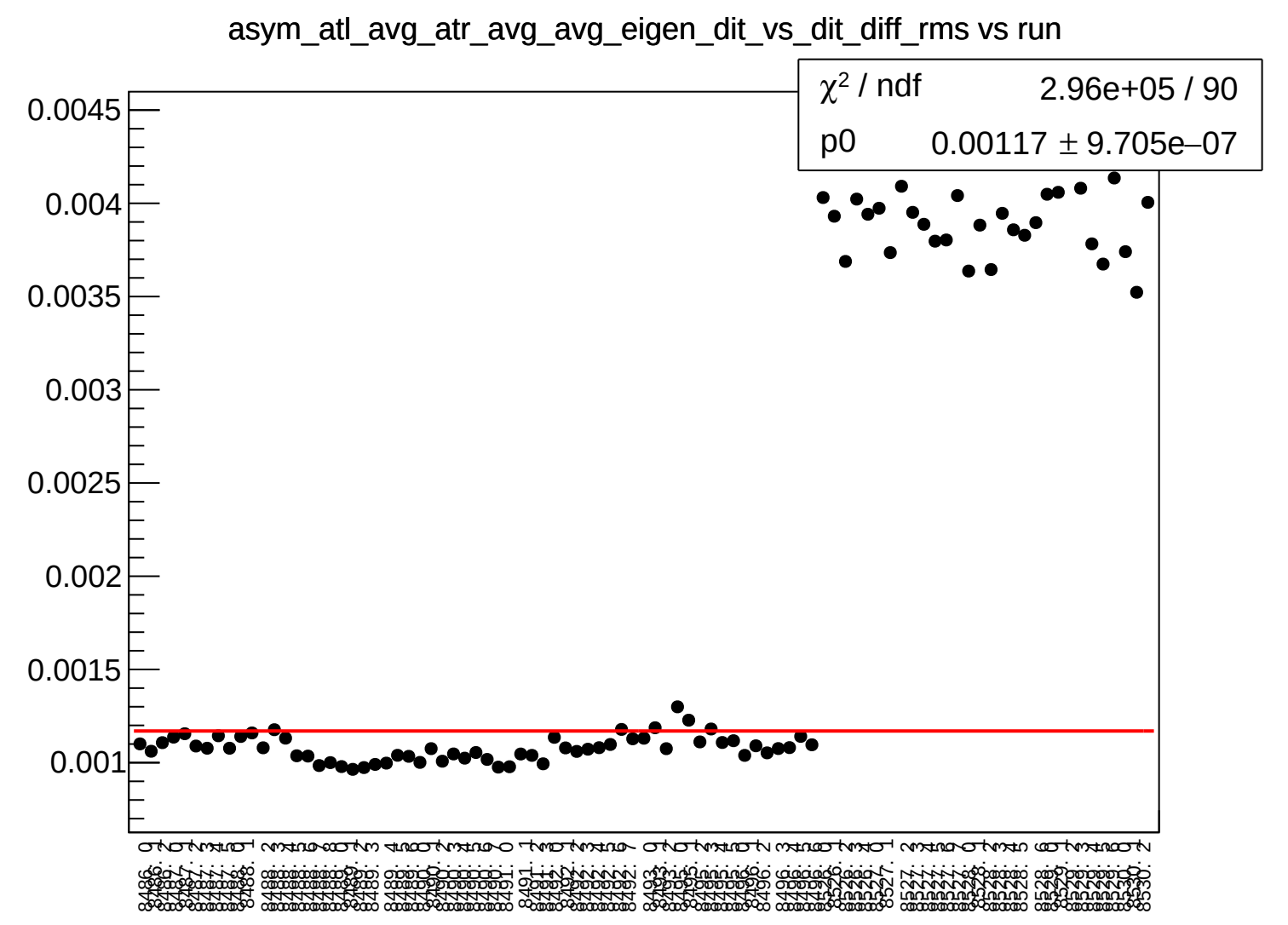

pull1D
Entries 91
Mean 0.06472
Std Dev 0.962

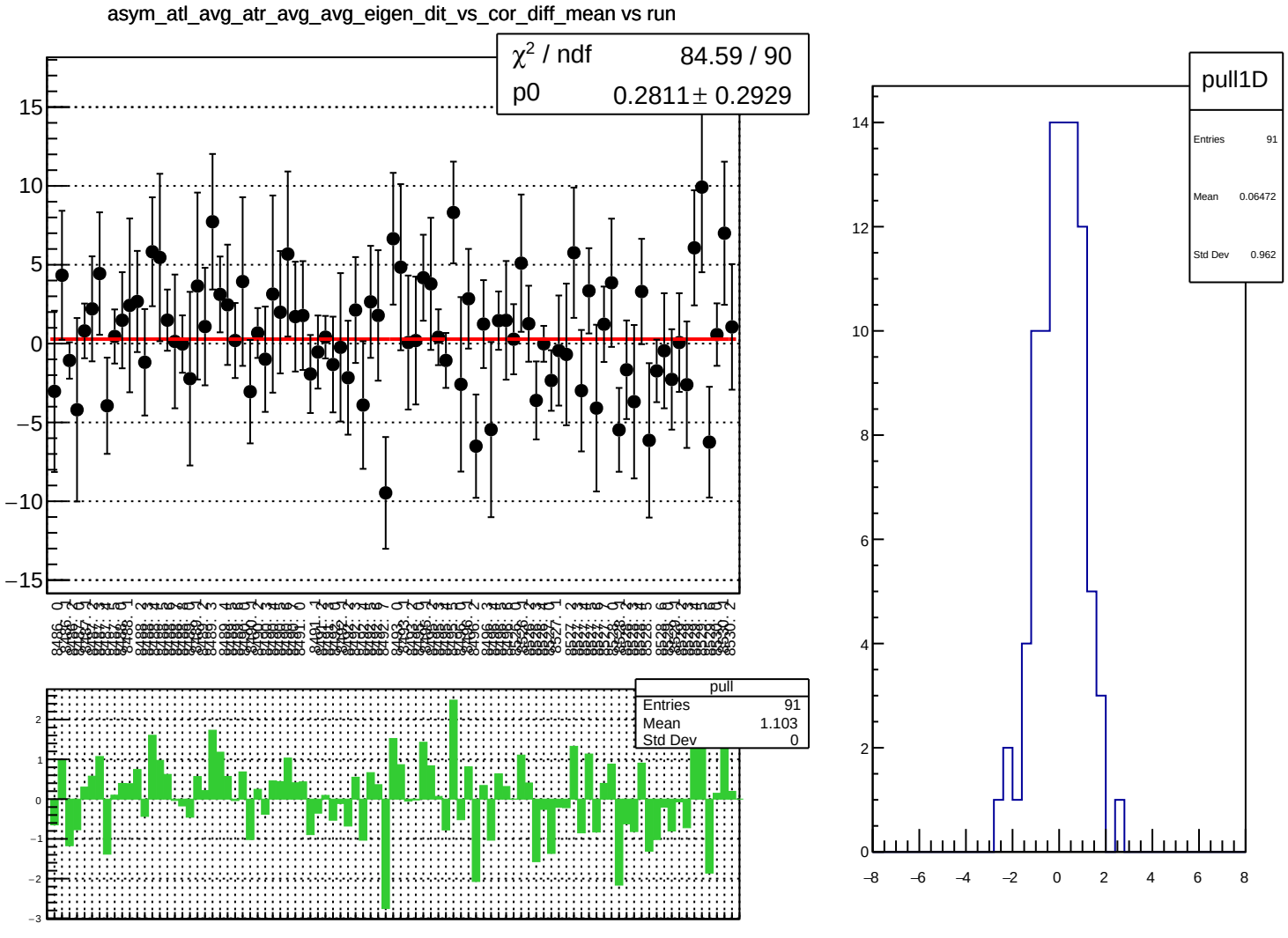

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.525e+05 / 90
p0 253.4 ± 0.2071
600
500
400
300
200
100

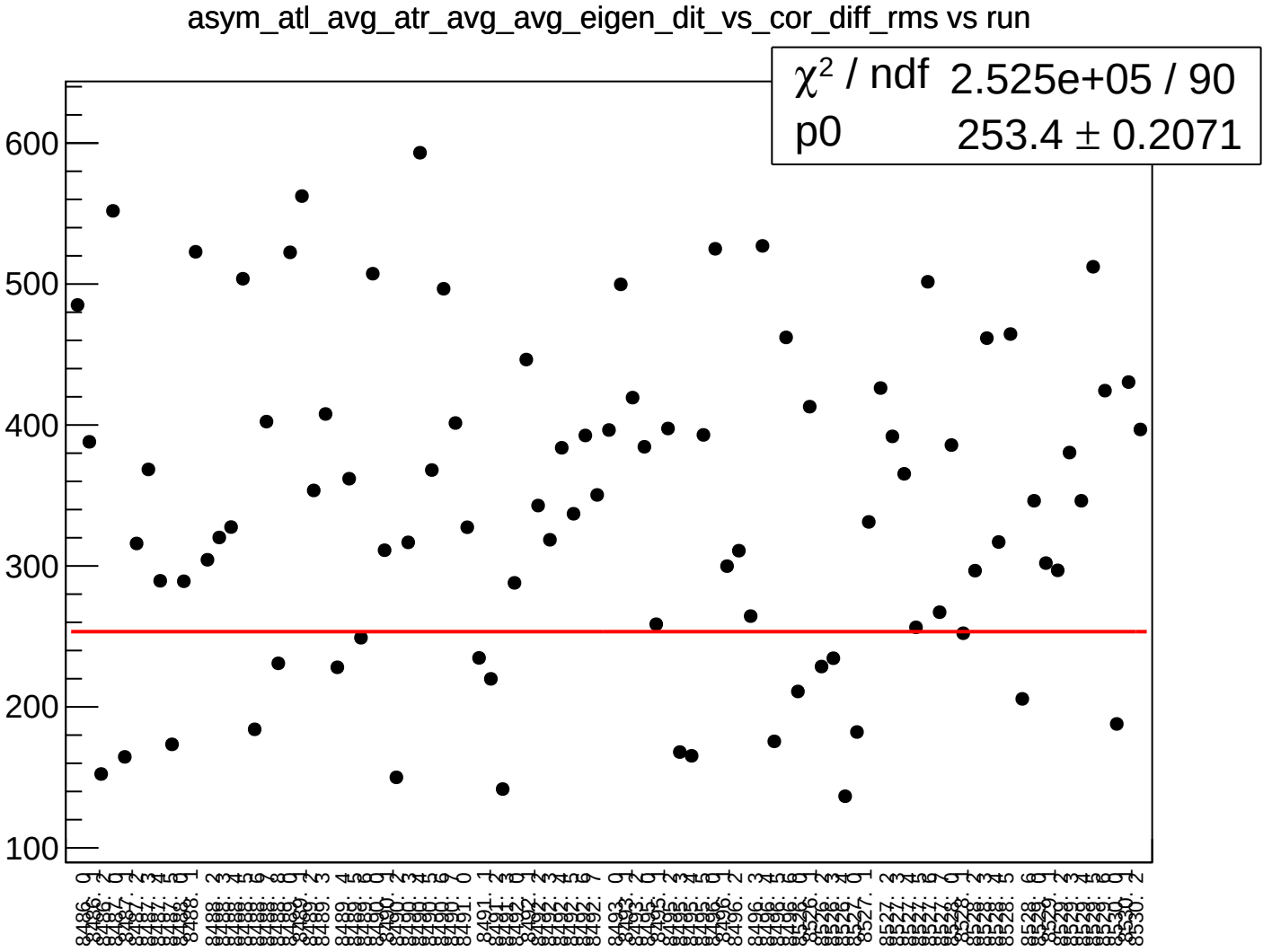

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.59 / 90
p0 0.2811± 0.2929
pull
Entries 91
Mean 1.103
Std Dev 0
pull1D
Entries 91
Mean 0.06472
Std Dev 0.962

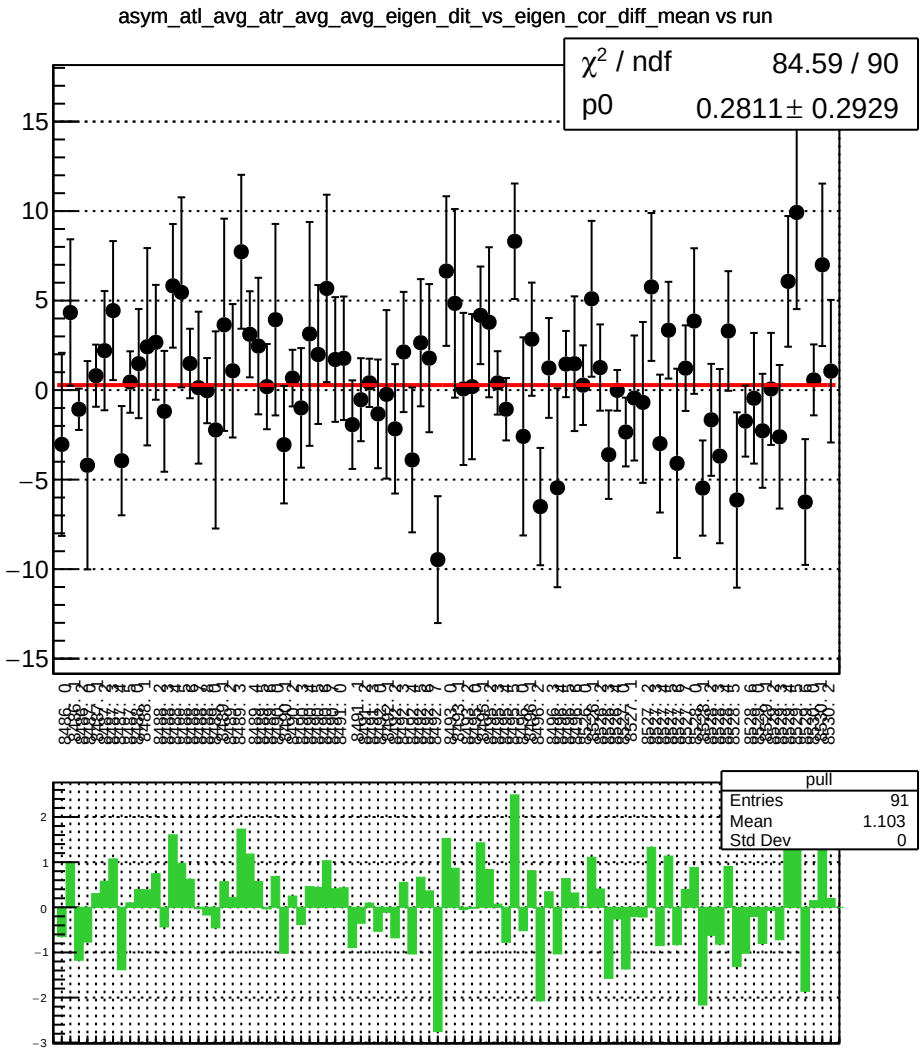

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.525e+05 / 90
p0 253.4 ± 0.2071
600
500
400
300
200
100

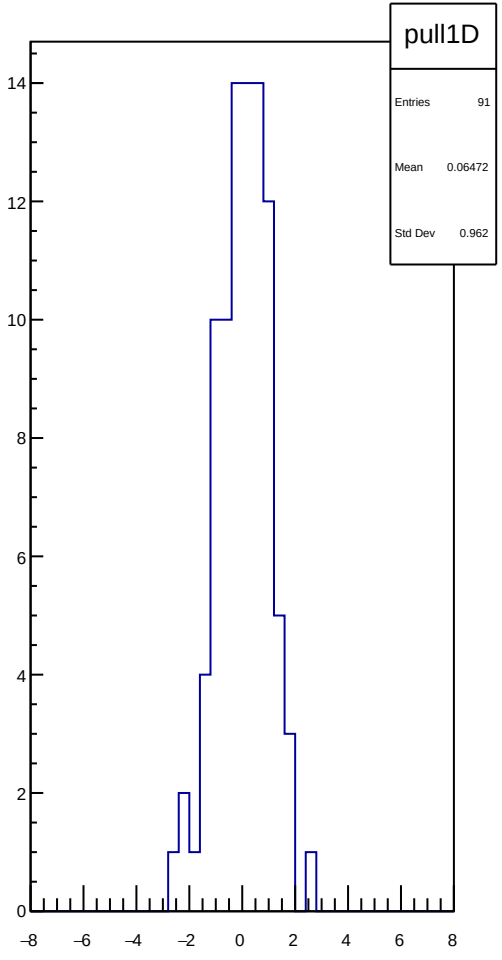

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.58 / 90
p0 −1.174e−06 ± 1.373e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 91
Mean 67.62
Std Dev 24.59
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean 0.02583
Std Dev 0.9974
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

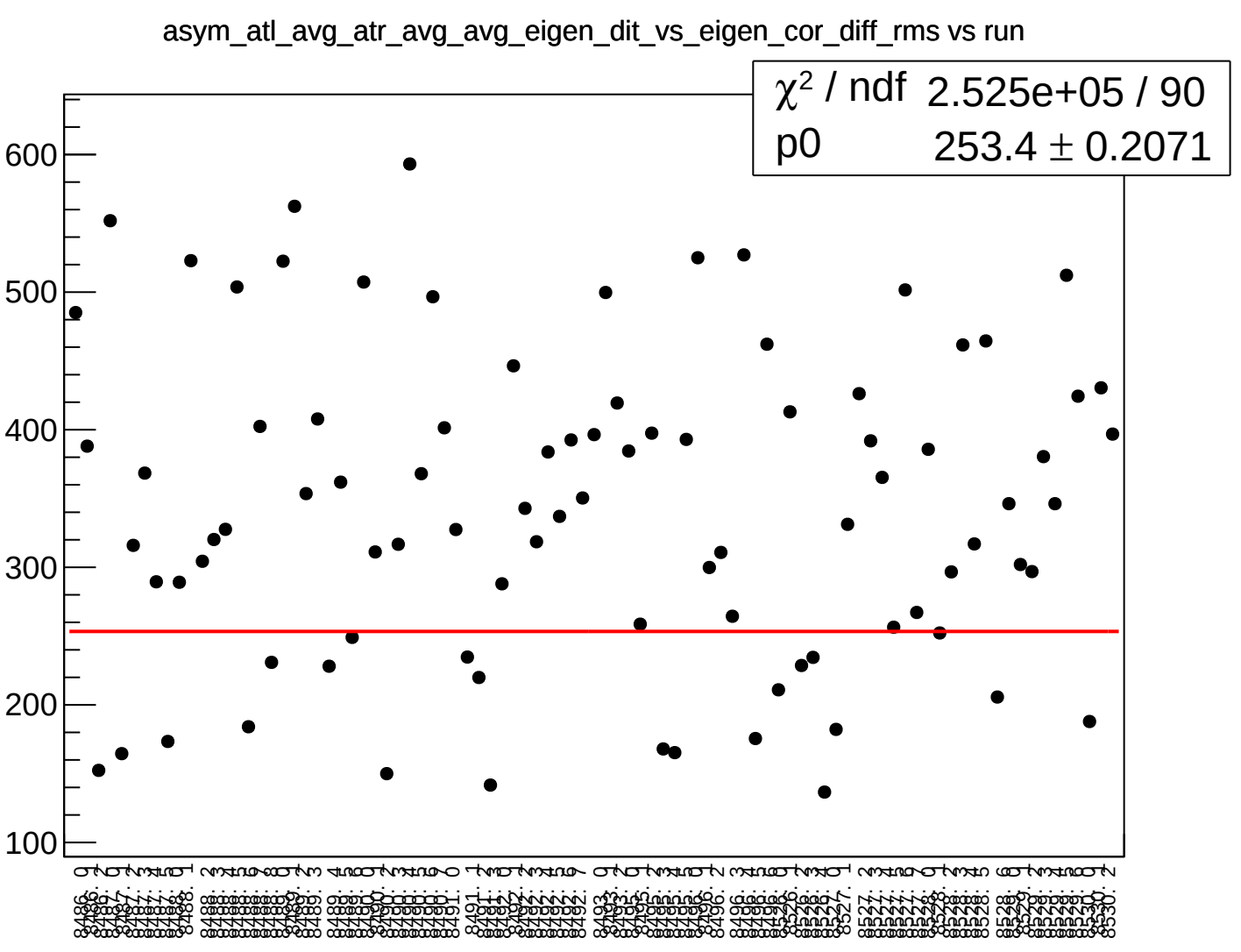

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.96e+05 / 90
p0 0.00117 ± 9.705e–07
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

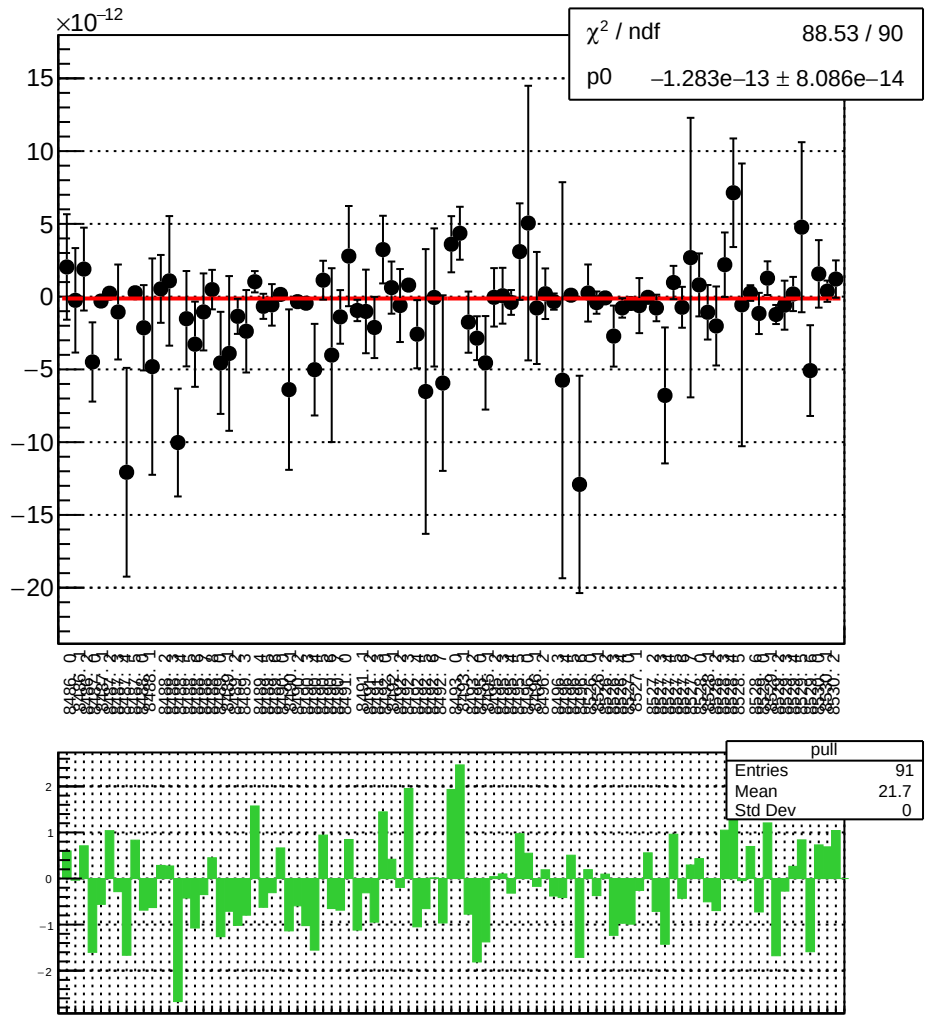

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.59 / 90
p0 0.2811± 0.2929
pull
Entries 91
Mean 1.103
Std Dev 0
pull1D
Entries 91
Mean 0.06472
Std Dev 0.962

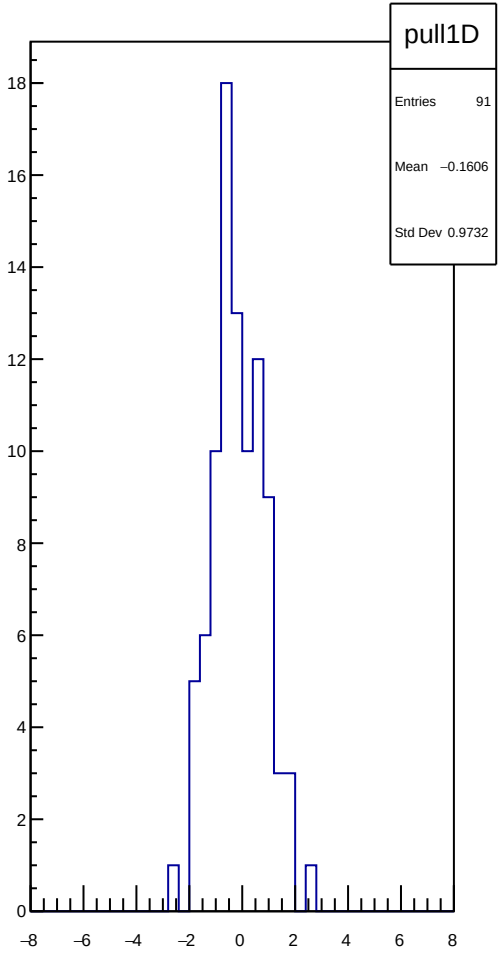

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.525e+05 / 90
p0 253.4 ± 0.2071
600
500
400
300
200
100

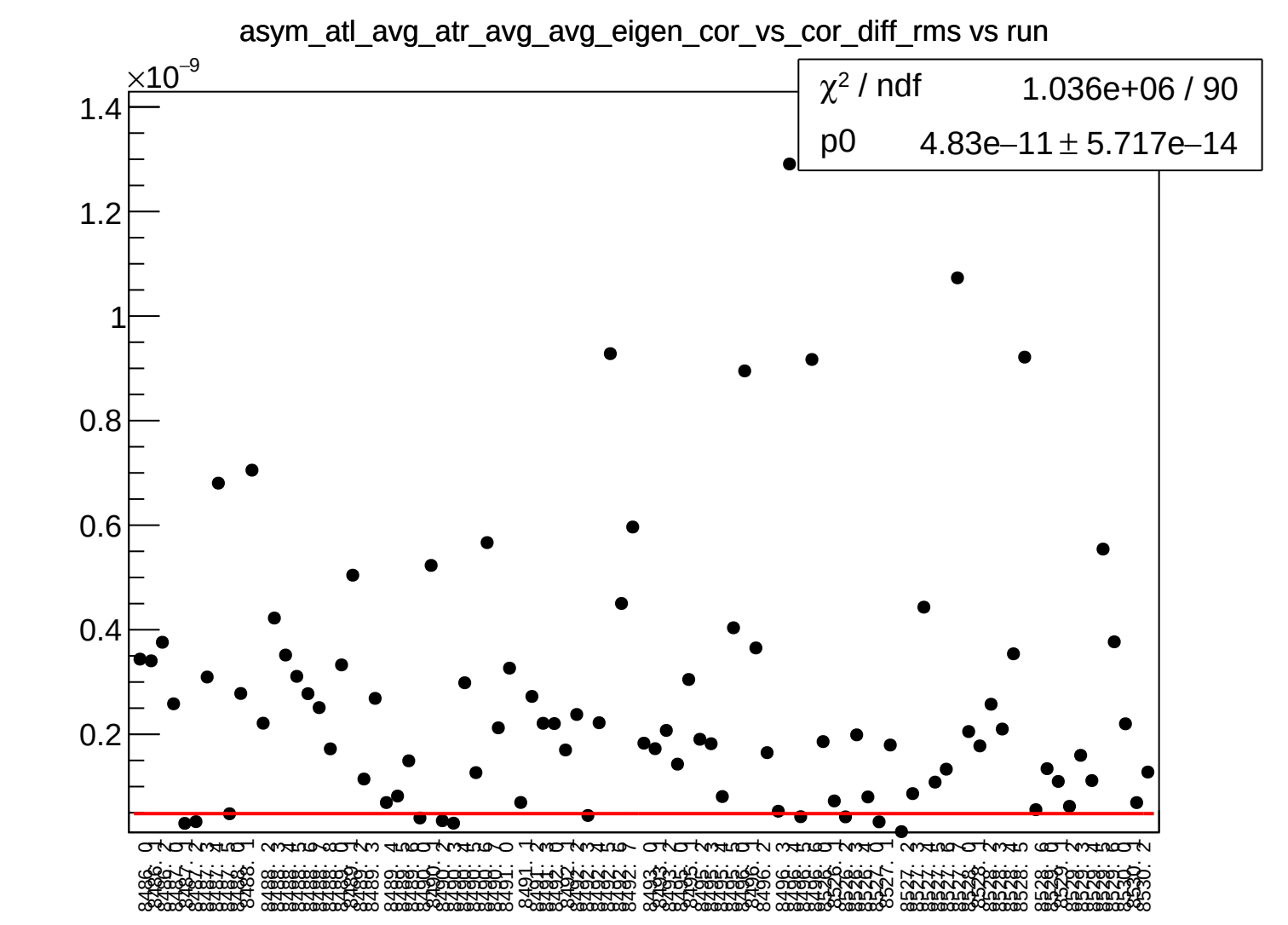

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.59 / 90
p0 0.2811 ± 0.2929
pull
Entries 91
Mean 1.103
Std Dev 0

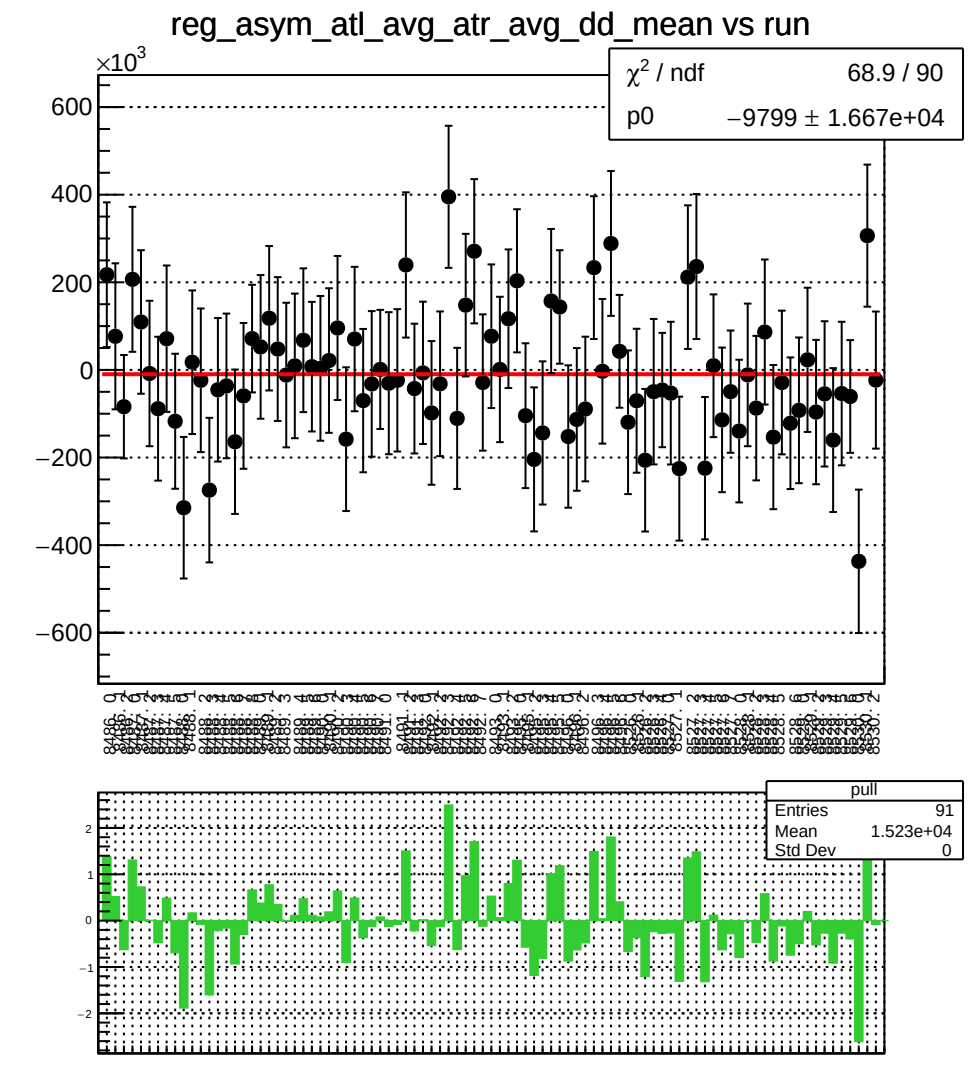

pull1D
Entries 91
Mean 0.06472
Std Dev 0.962

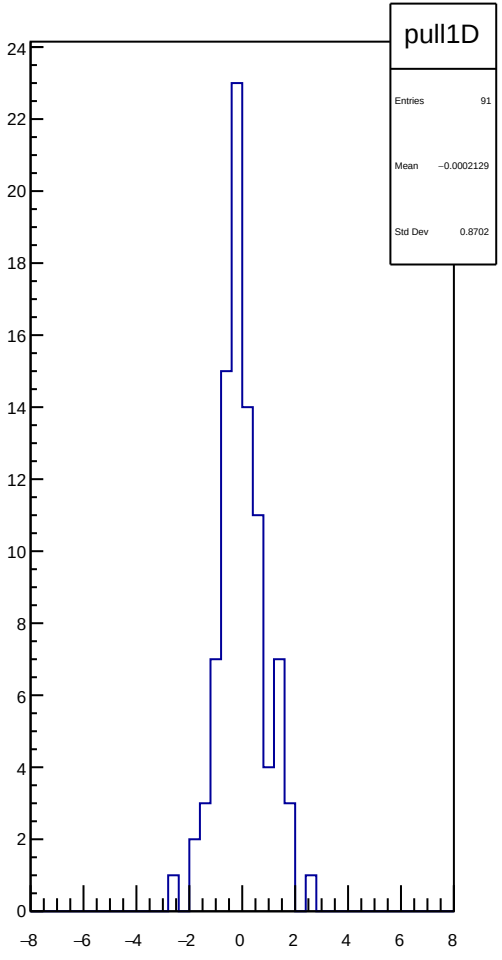

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.525e+05 / 90
p0 253.4 ± 0.2071
600
500
400
300
200
100

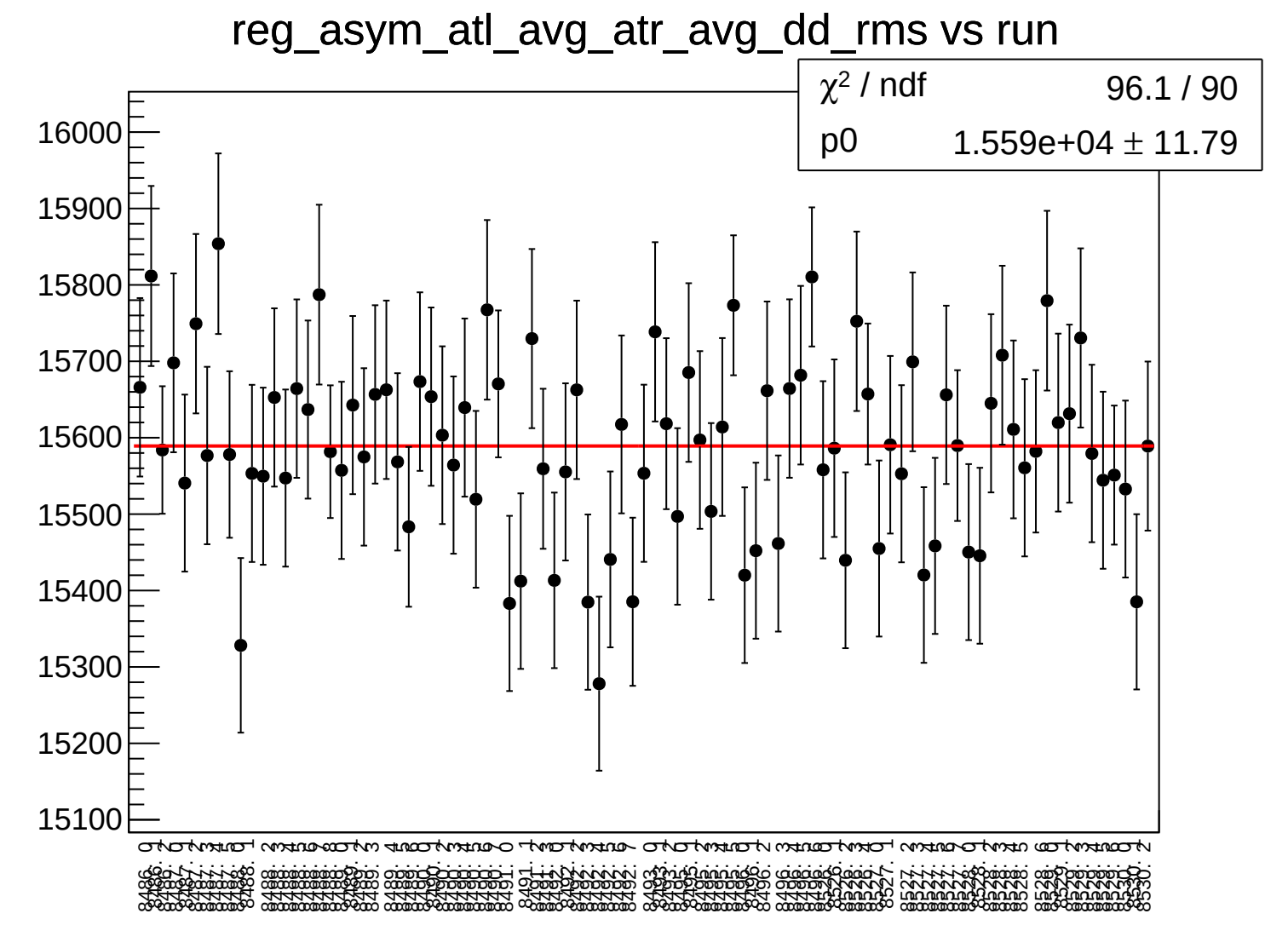

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.53 / 90
p0 −1.283e−13 ± 8.086e−14
pull
Entries 91
Mean 21.7
Std Dev 0

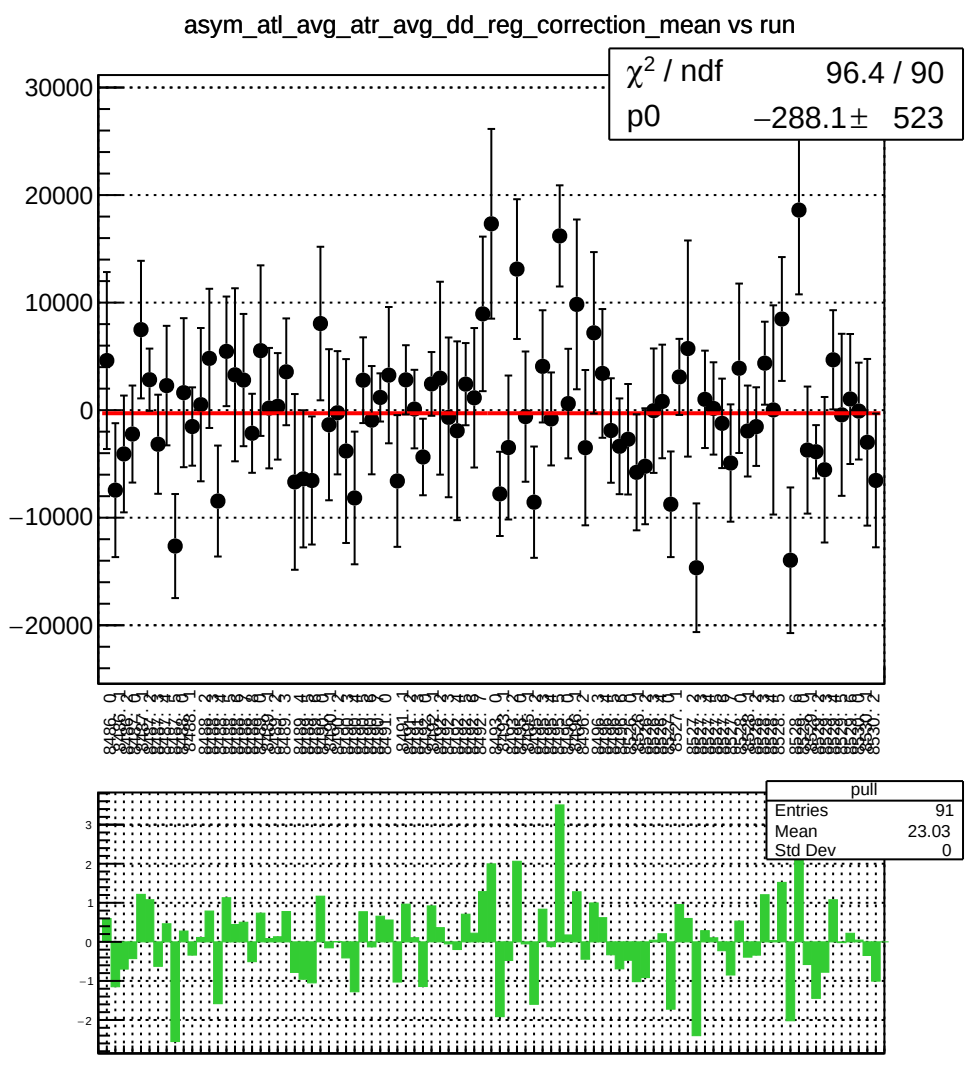

pull1D
Entries 91
Mean −0.1606
Std Dev 0.9732

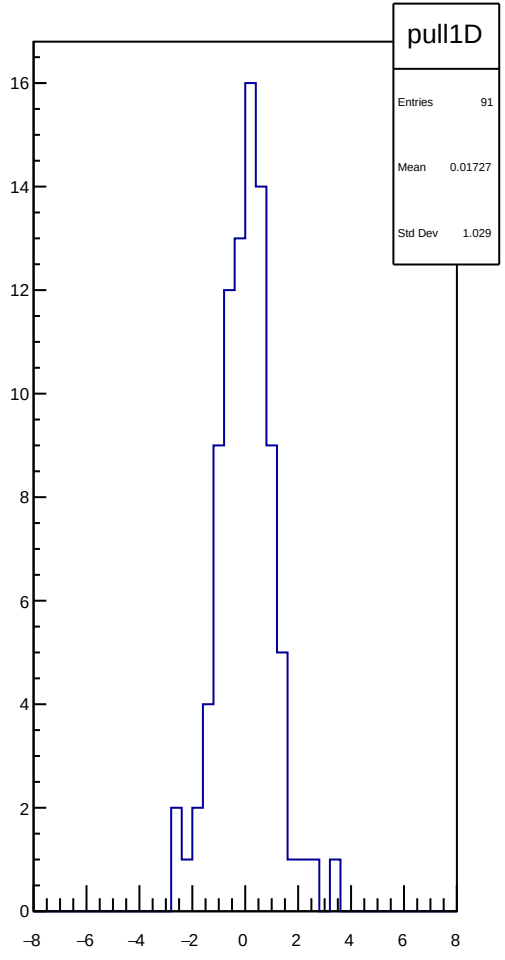

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.036e+06 / 90
p0 4.83e−11 ± 5.717e−14
1.4
1.2
1
0.8
0.6
0.4
0.2

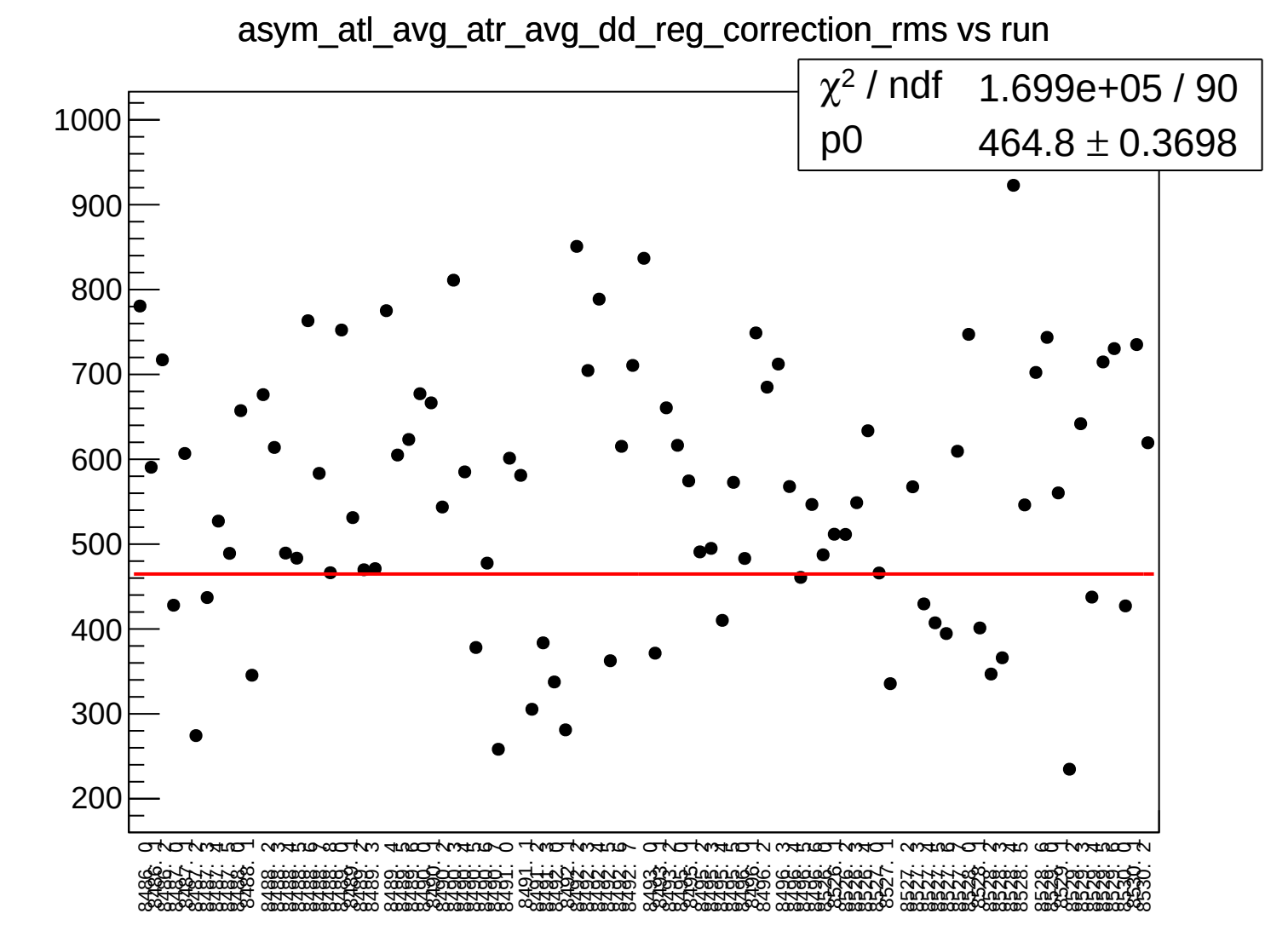

reg_asym_atl_avg_atr_avg_dd_mean vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 68.9 / 90
p0 −9799 ± 1.667e+04
pull
Entries 91
Mean 1.523e+04
Std Dev 0
2
1
0
−1
−2

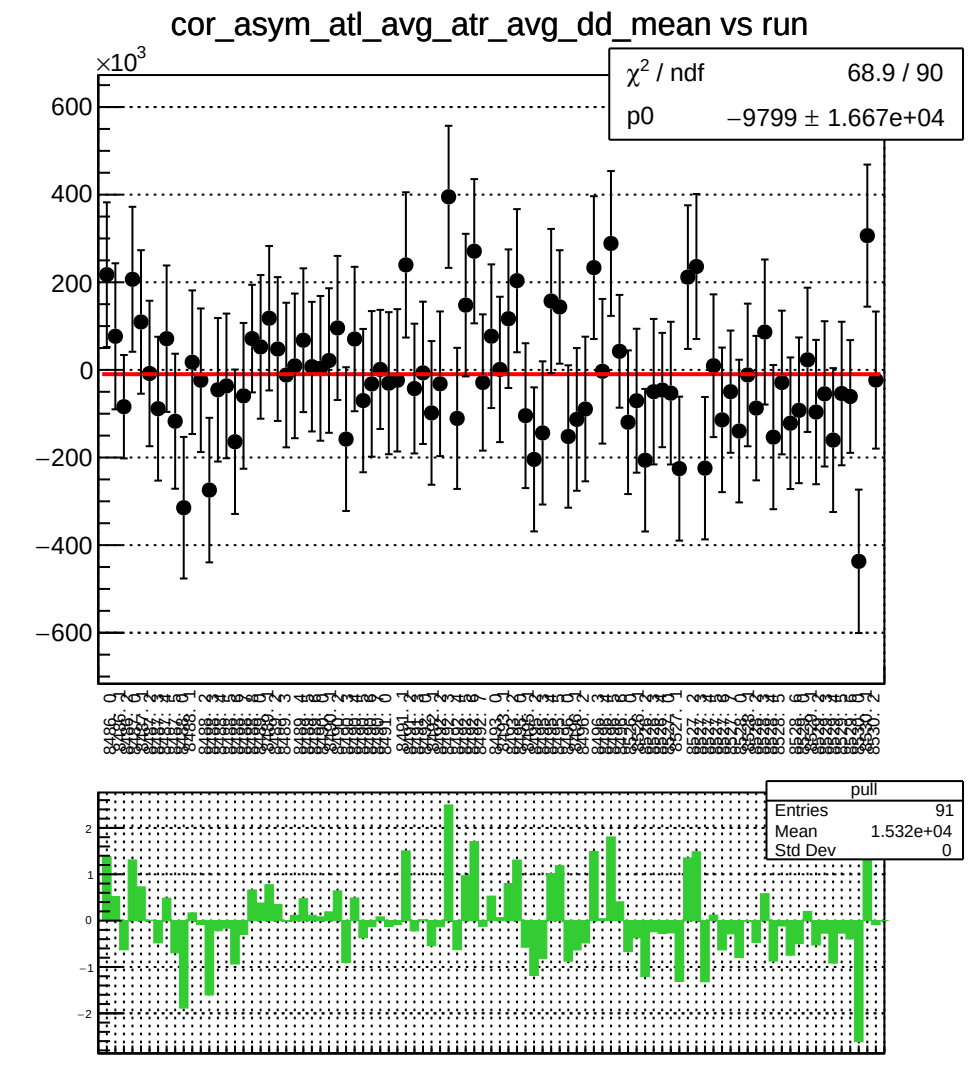

pull1D
Entries 91
Mean −0.0002129
Std Dev 0.8702
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

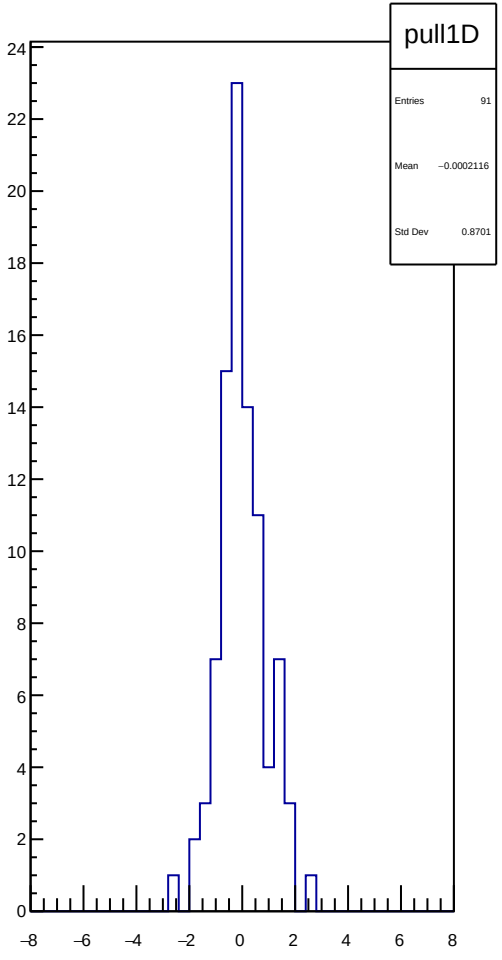

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 96.1 / 90
p0 1.559e+04 ± 11.79
16000
15900
15800
15700
15600
15500
15400
15300
15200
15100

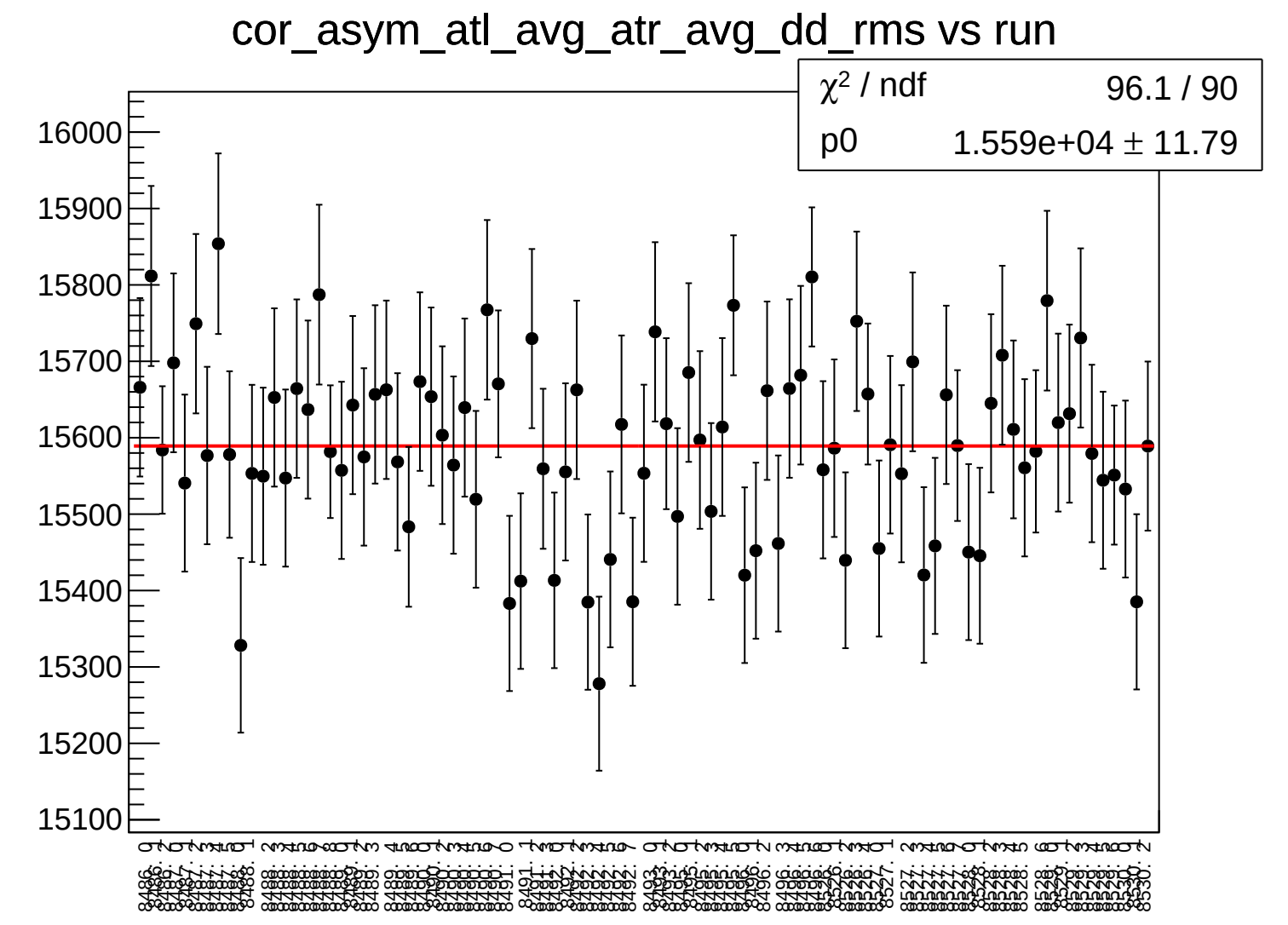

asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 96.4 / 90
p0 −288.1± 523
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 23.03
Std Dev 0
3
2
1
0
−1
−2

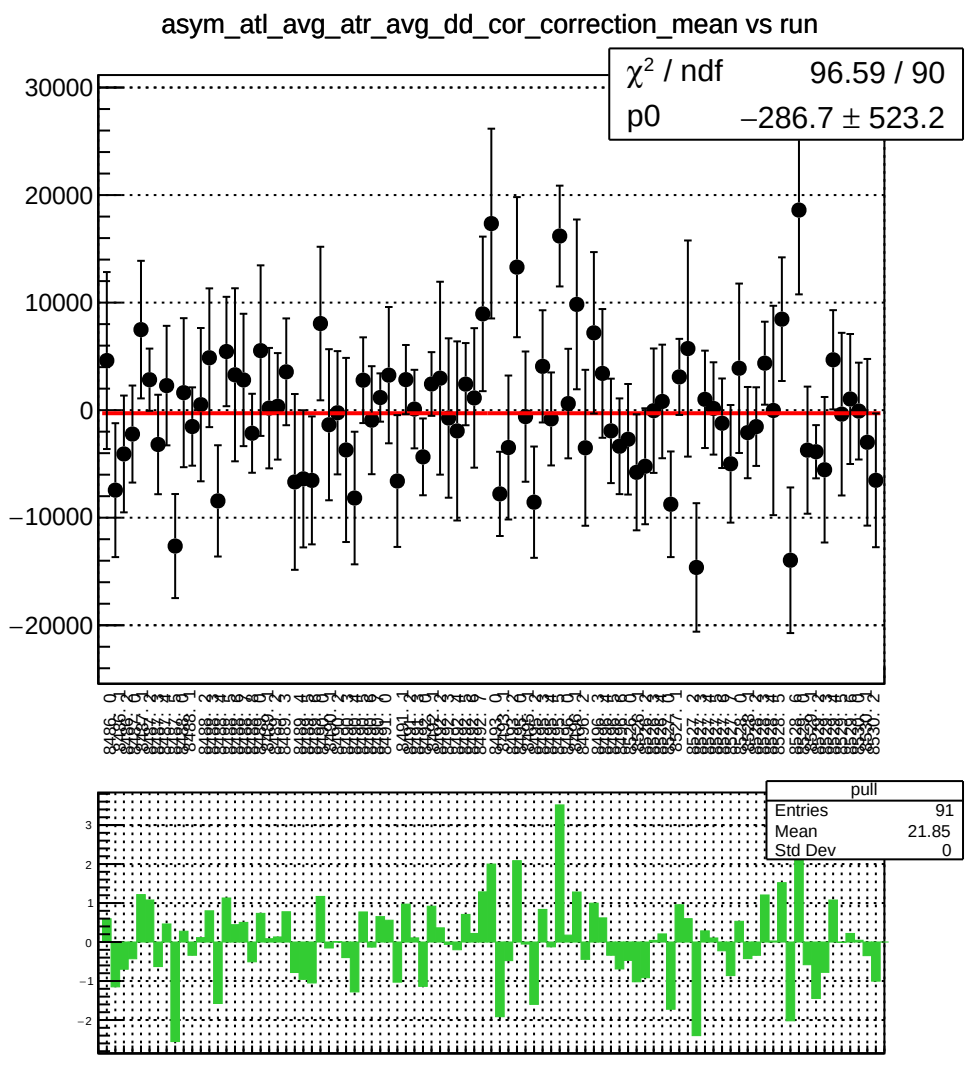

pull1D
Entries 91
Mean 0.01727
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

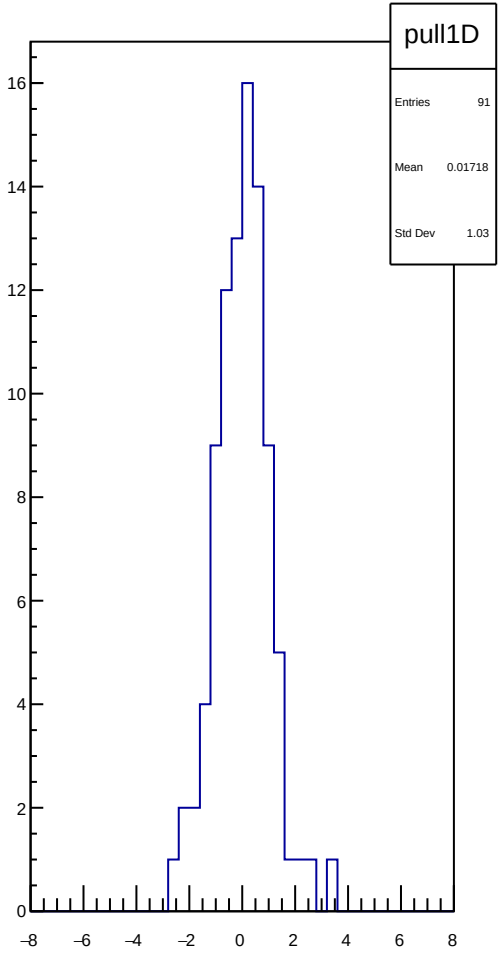

asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.699e+05 / 90
p0 464.8 ± 0.3698
1000
900
800
700
600
500
400
300
200

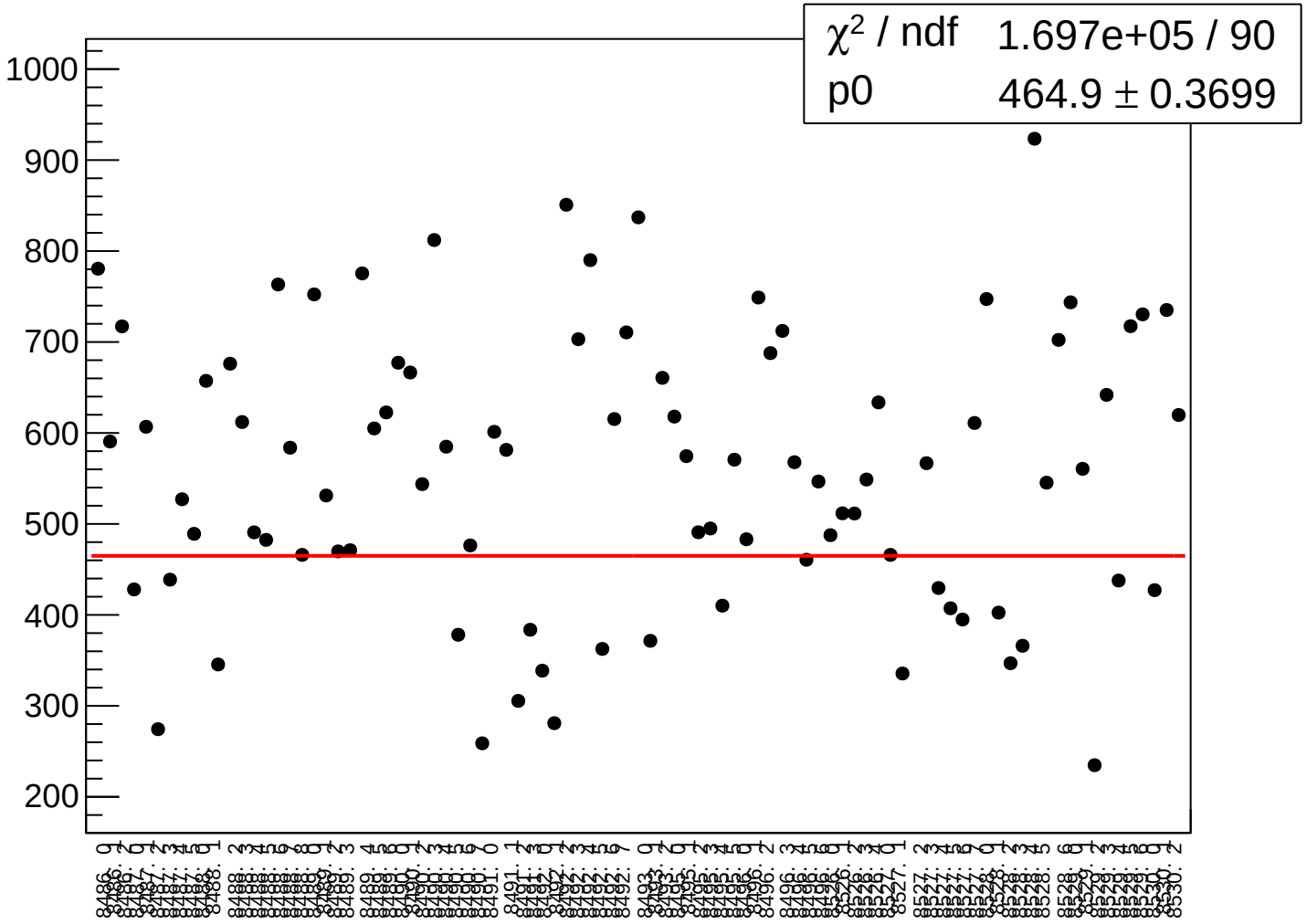

cor_asym_atl_avg_atr_avg_dd_mean vs run
×10^3
χ² / ndf 68.9 / 90
p0 −9799 ± 1.667e+04
pull
Entries 91
Mean 1.532e+04
Std Dev 0

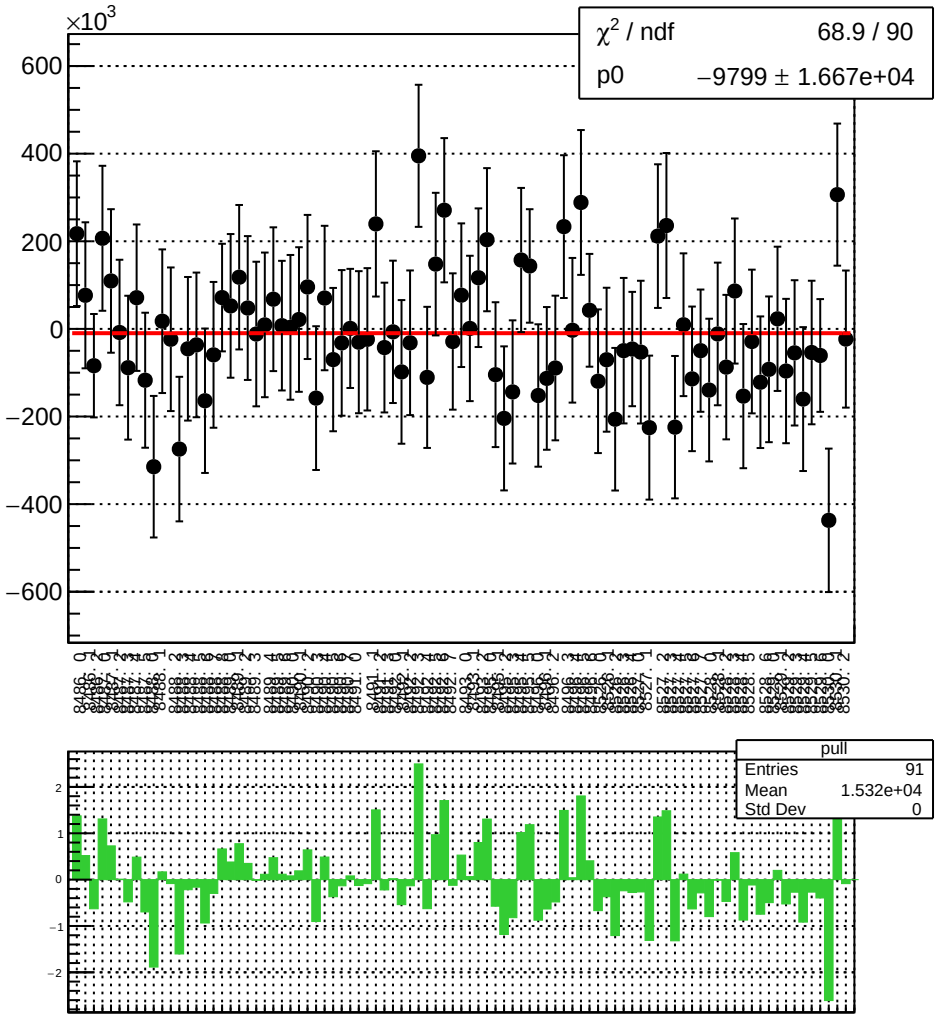

pull1D
Entries 91
Mean −0.0002116
Std Dev 0.8701

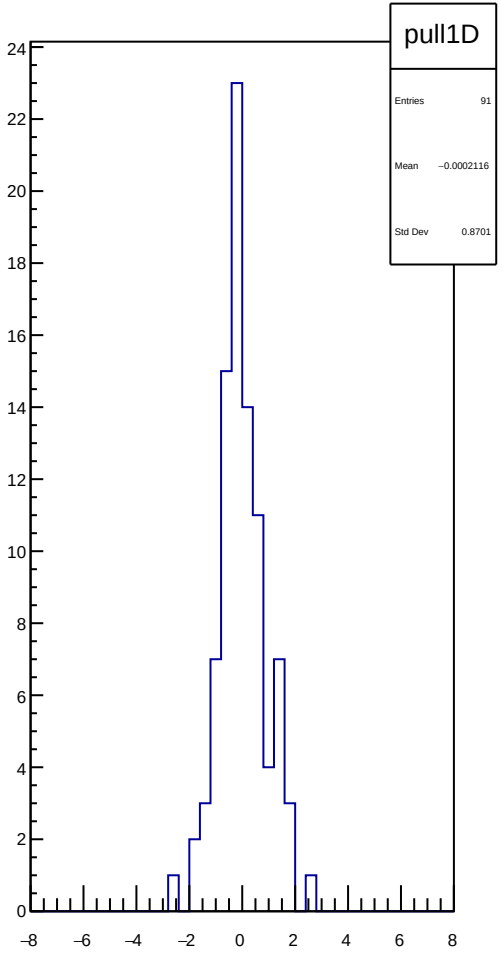

cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 96.1 / 90
p0 1.559e+04 ± 11.79
16000
15900
15800
15700
15600
15500
15400
15300
15200
15100

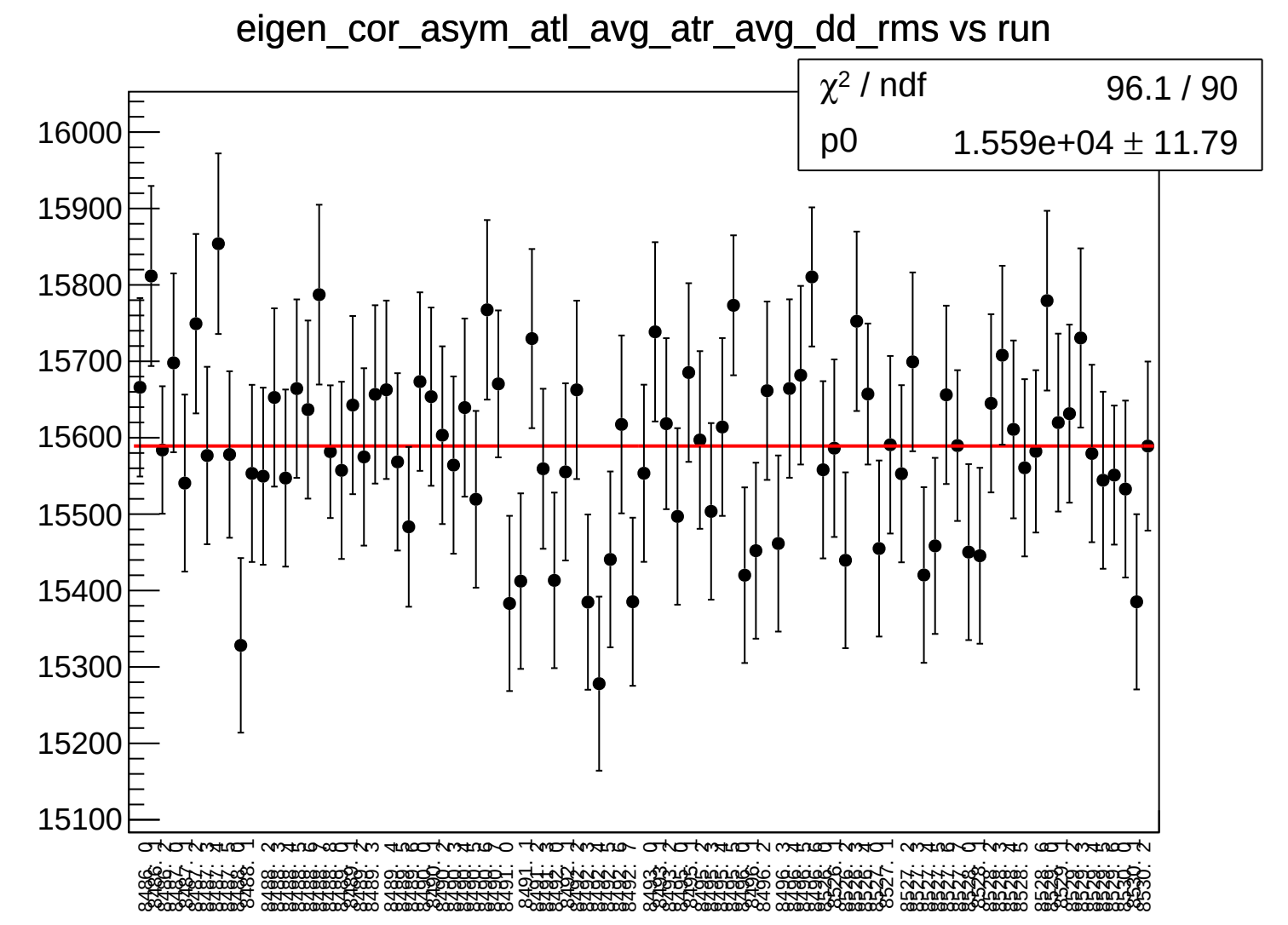

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 96.59 / 90
p0 −286.7 ± 523.2
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 21.85
Std Dev 0
3
2
1
0
−1
−2

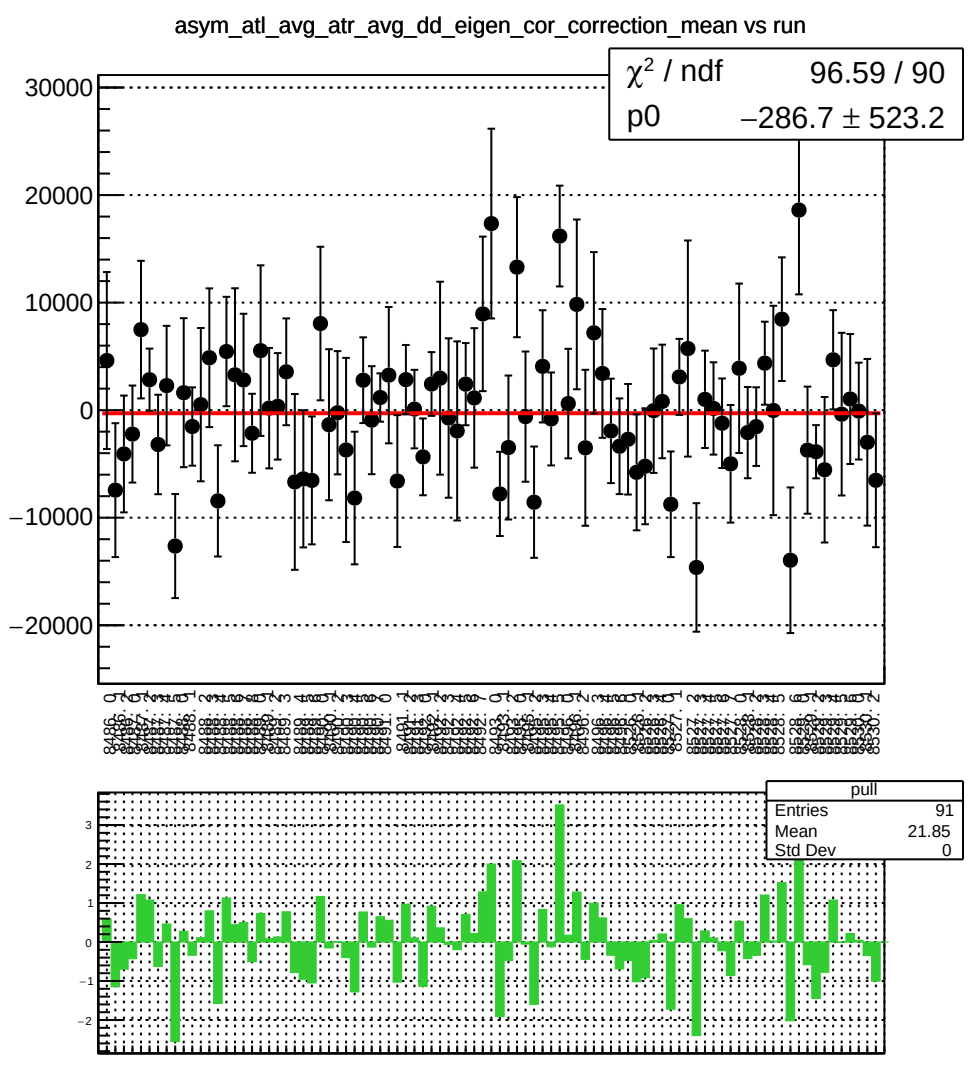

pull1D
Entries 91
Mean 0.01718
Std Dev 1.03
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

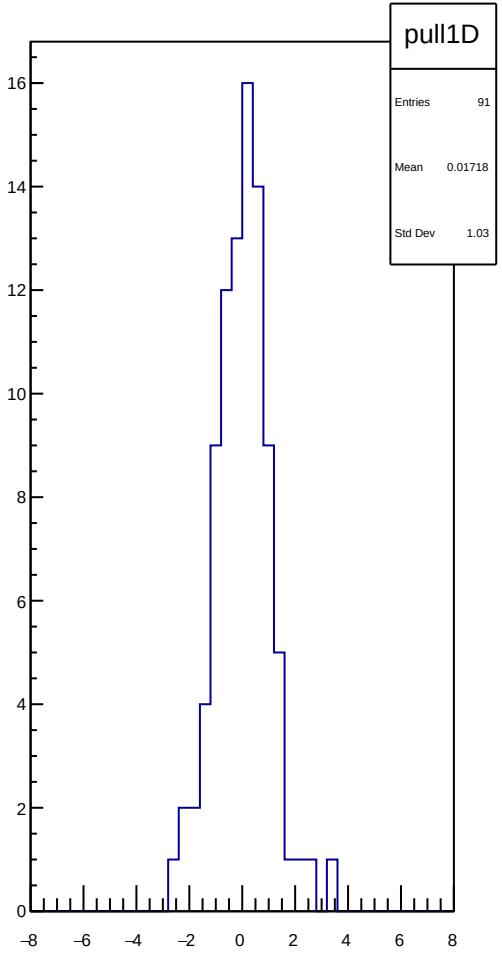

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.697e+05 / 90
p0 464.9 ± 0.3699
1000
900
800
700
600
500
400
300
200

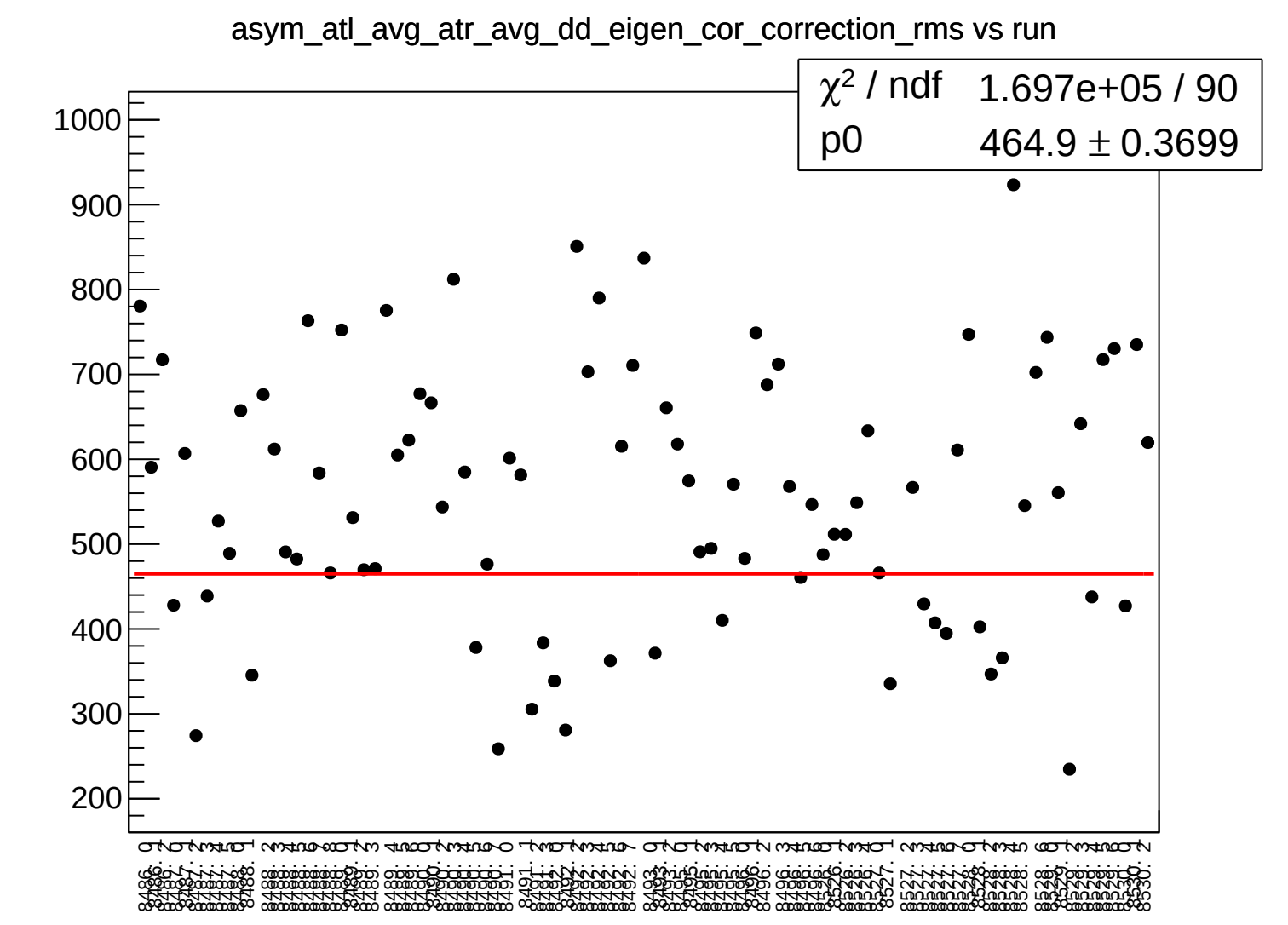

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
×10^3
χ² / ndf 68.9 / 90
p0 −9799 ± 1.667e+04
pull
Entries 91
Mean 1.532e+04
Std Dev 0

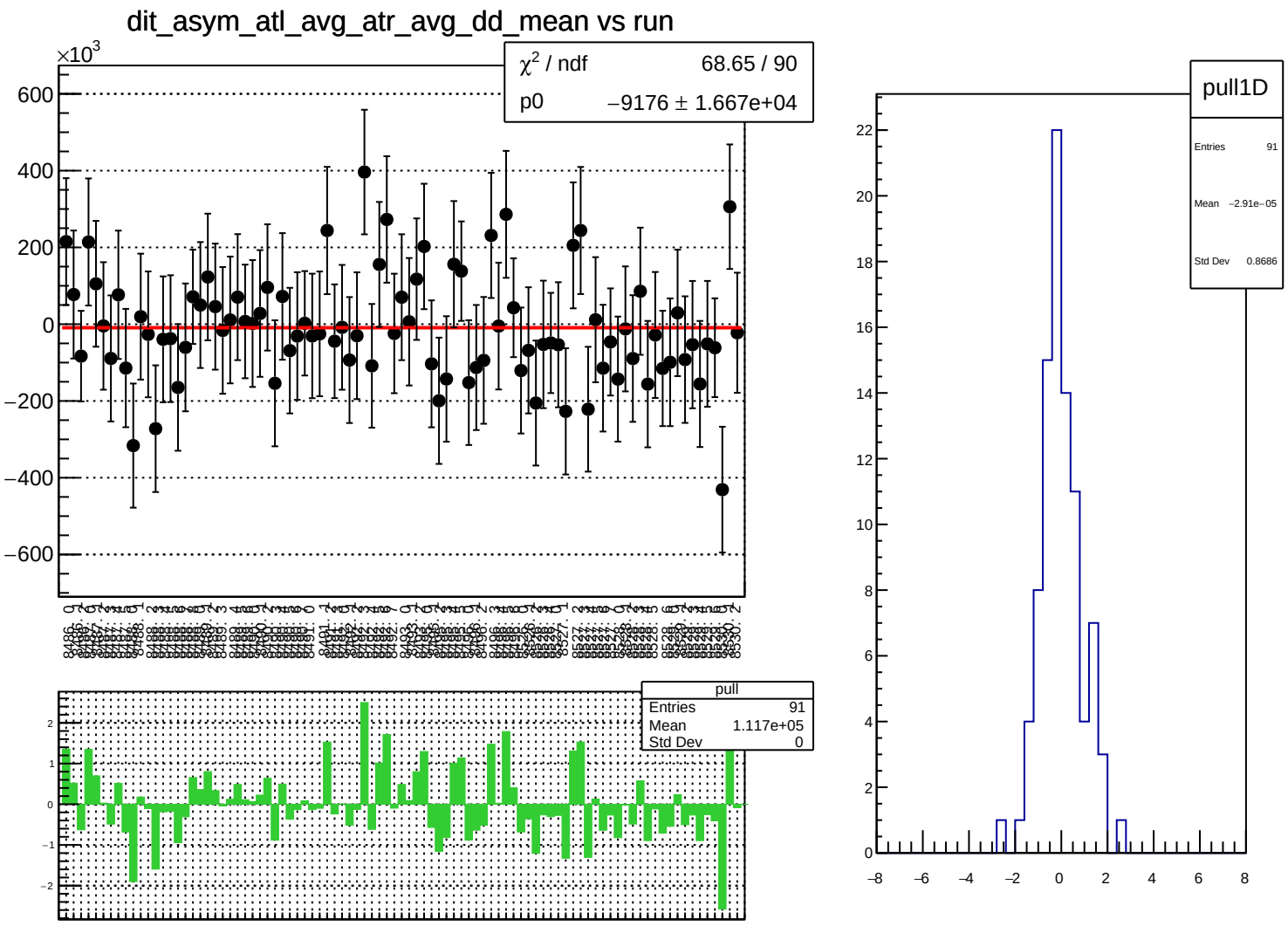

pull1D
Entries 91
Mean −0.0002116
Std Dev 0.8701

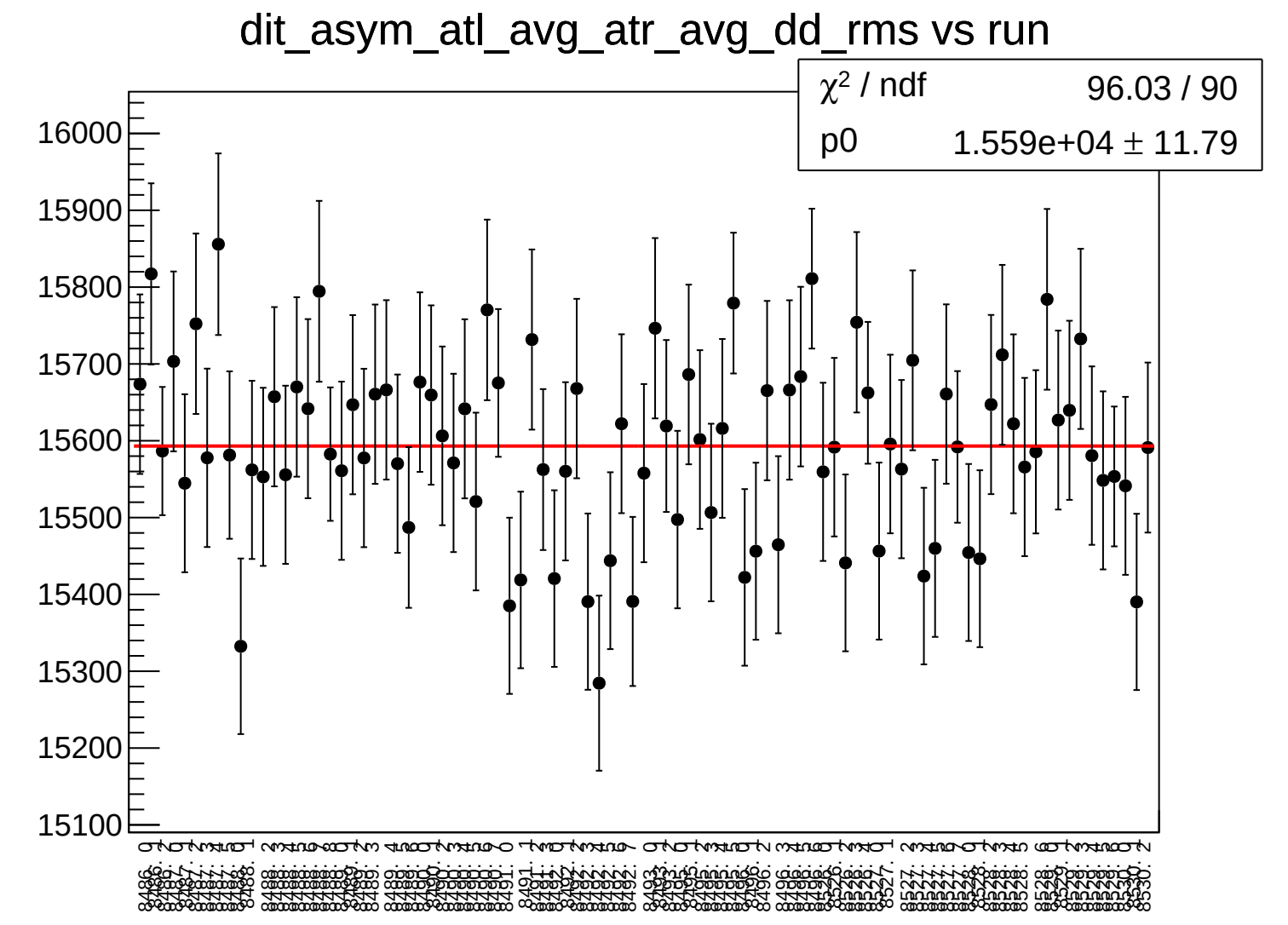

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 96.1 / 90
p0 1.559e+04 ± 11.79
16000
15900
15800
15700
15600
15500
15400
15300
15200
15100

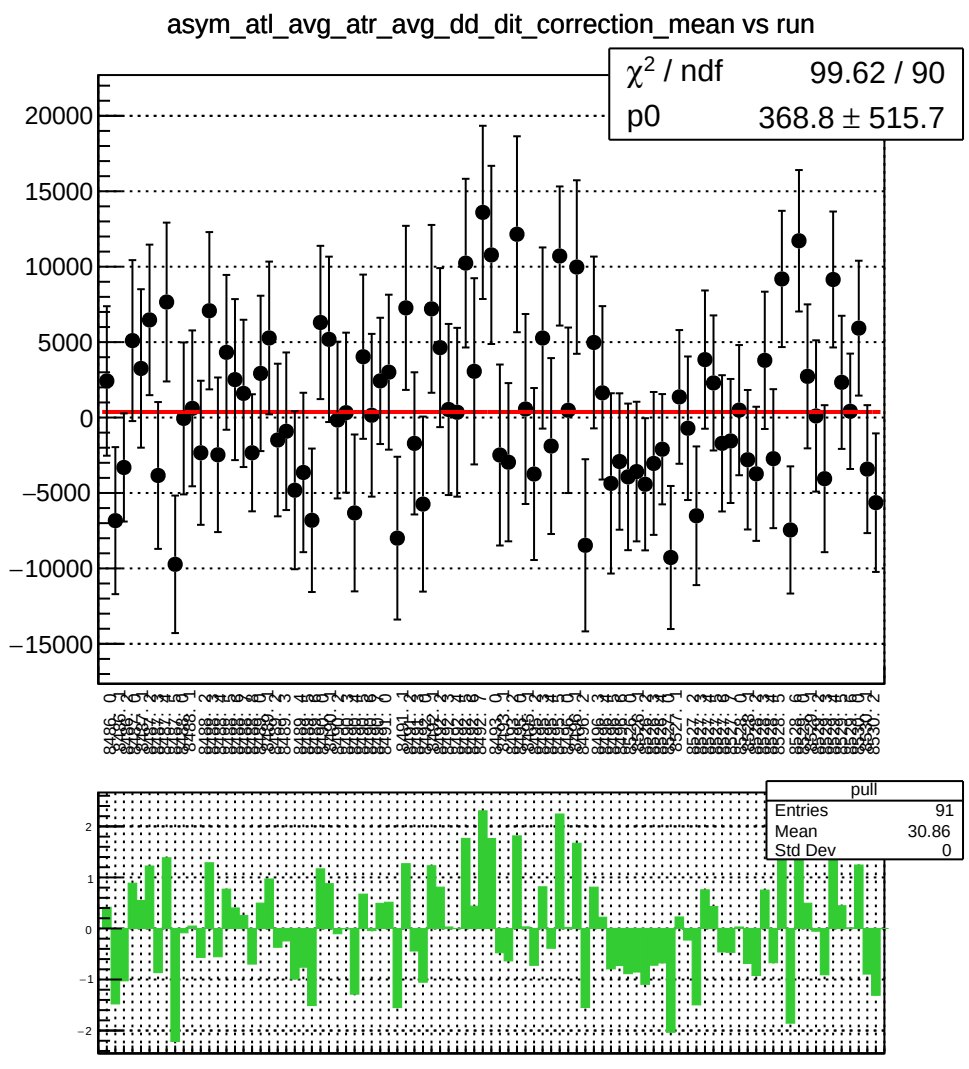

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 96.59 / 90
p0 −286.7 ± 523.2
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 21.85
Std Dev 0
3
2
1
0
−1
−2

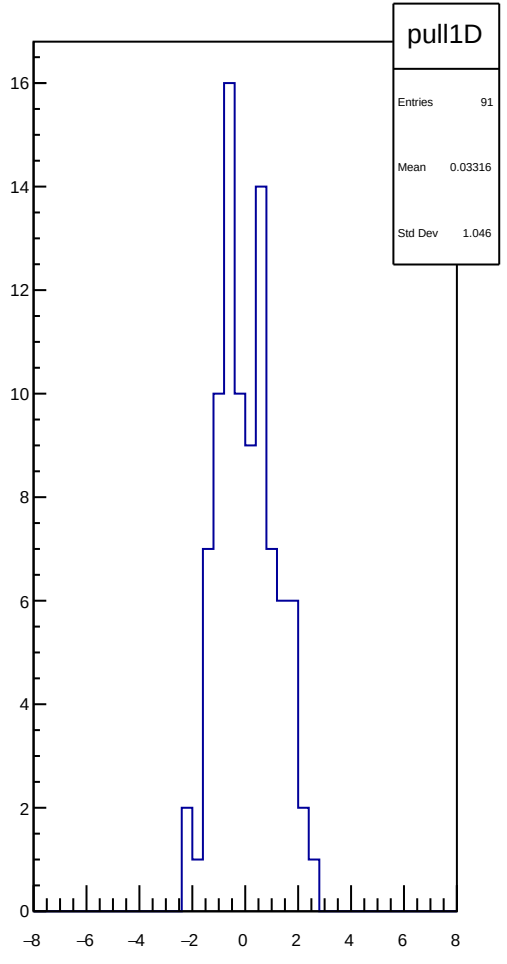

pull1D
Entries 91
Mean 0.01718
Std Dev 1.03
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

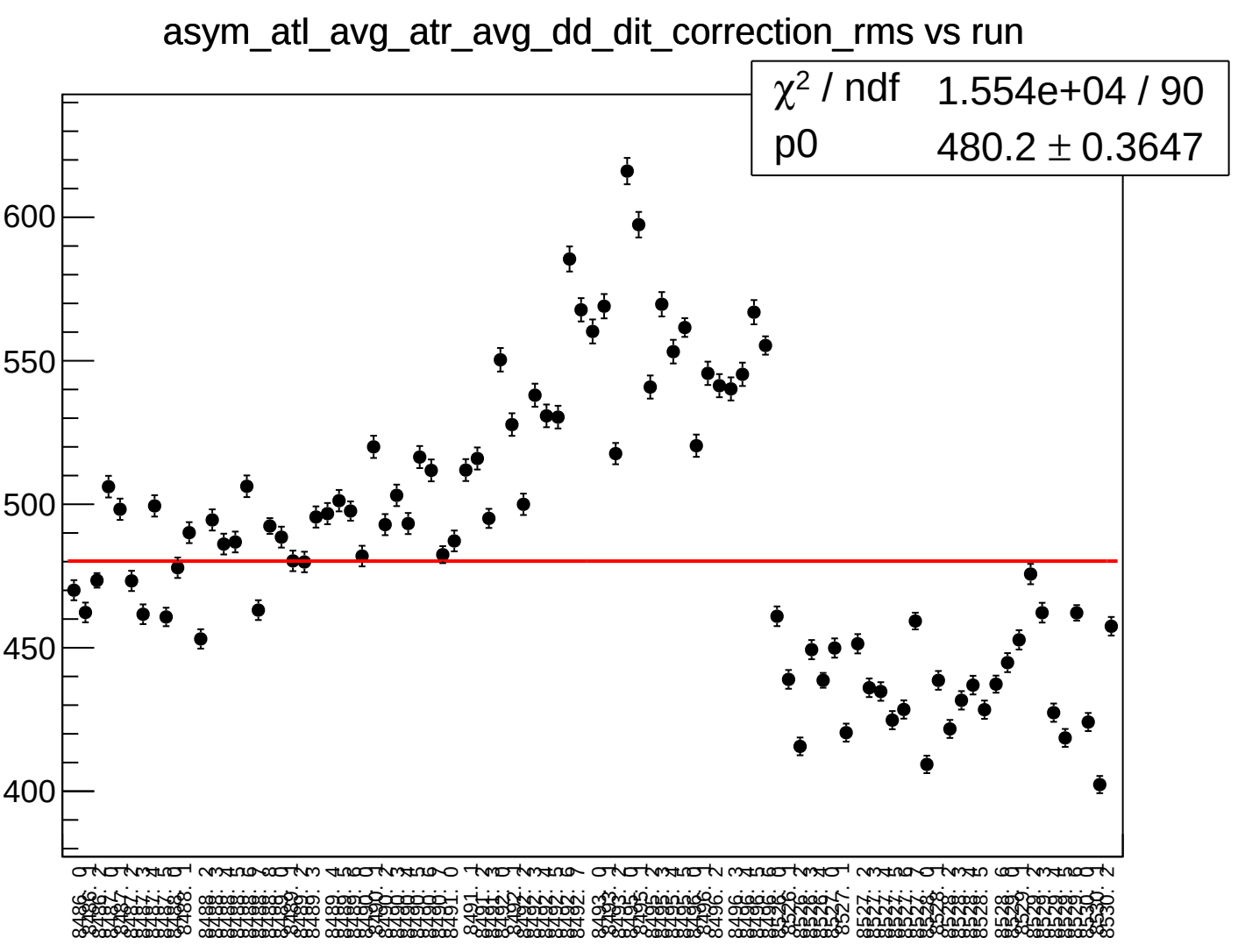

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.697e+05 / 90
p0 464.9 ± 0.3699
1000
900
800
700
600
500
400
300
200

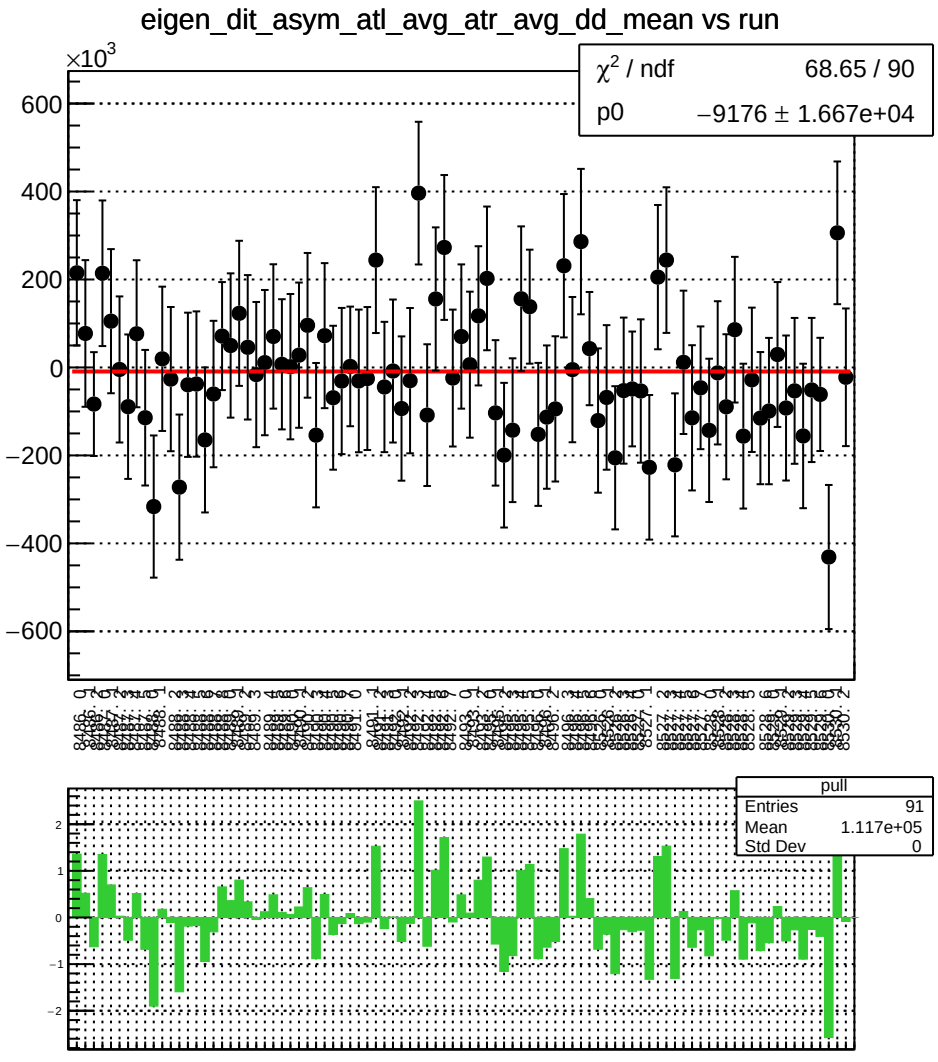

dit_asym_atl_avg_atr_avg_dd_mean vs run
×10^3
χ² / ndf 68.65 / 90
p0 −9176 ± 1.667e+04
pull
Entries 91
Mean 1.117e+05
Std Dev 0
pull1D
Entries 91
Mean −2.91e−05
Std Dev 0.8686

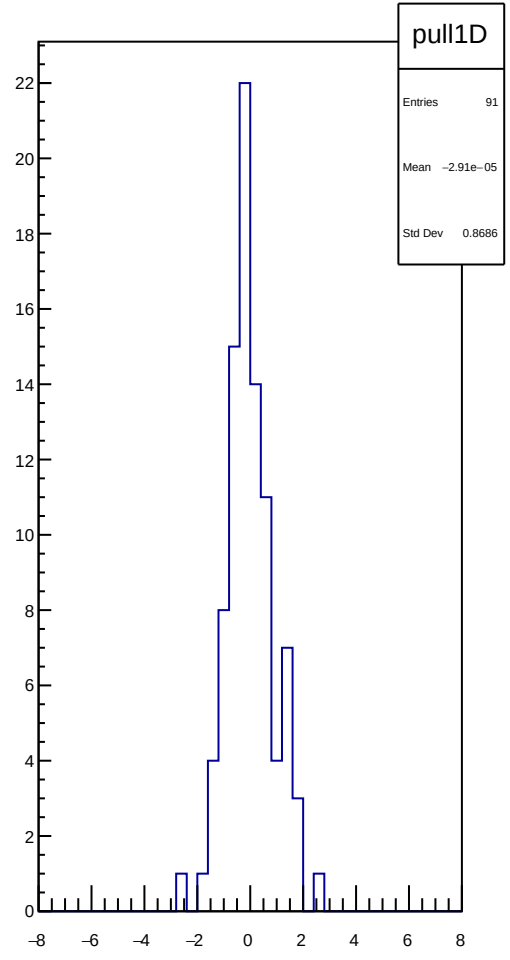

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 96.03 / 90
p0 1.559e+04 ± 11.79
16000
15900
15800
15700
15600
15500
15400
15300
15200
15100

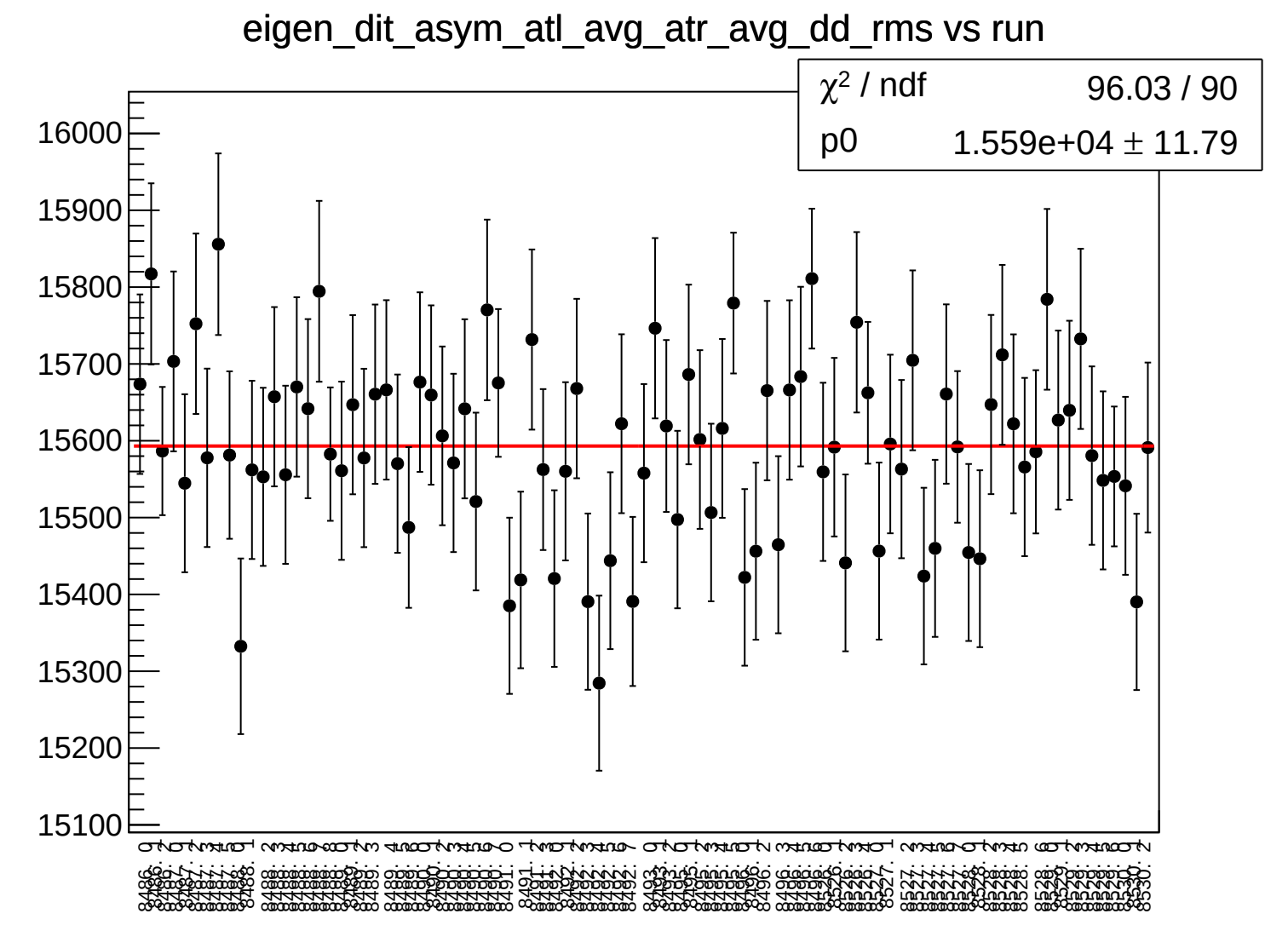

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 99.62 / 90
p0 368.8 ± 515.7
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 30.86
Std Dev 0
2
1
0
−1
−2

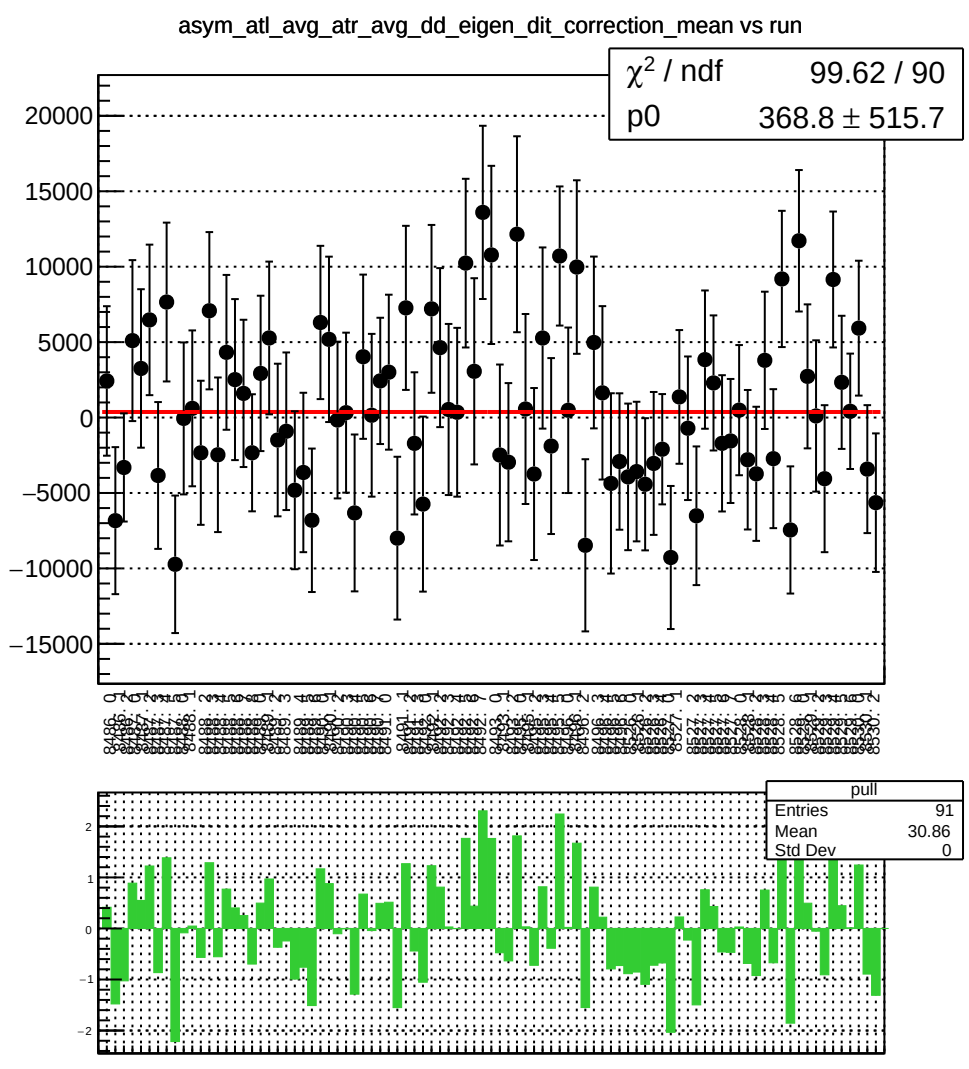

pull1D
Entries 91
Mean 0.03316
Std Dev 1.046
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

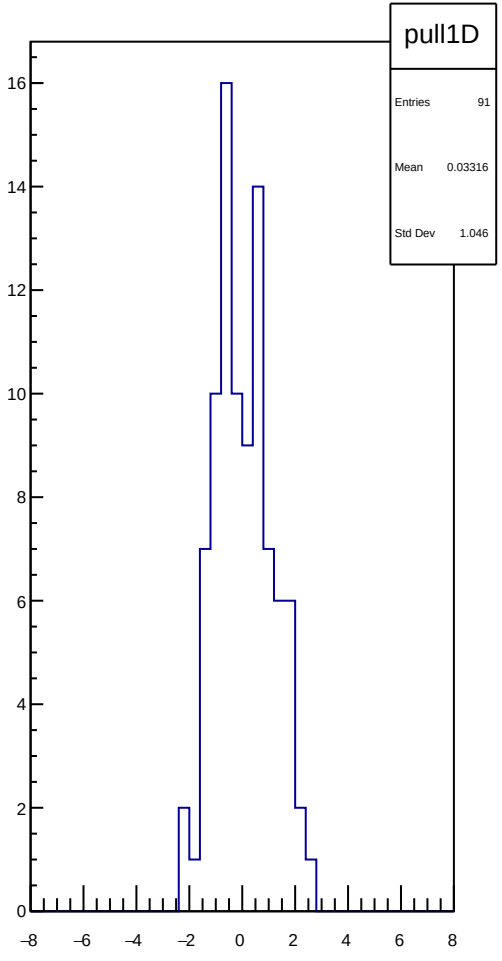

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 1.554e+04 / 90
p0 480.2 ± 0.3647
600
550
500
450
400

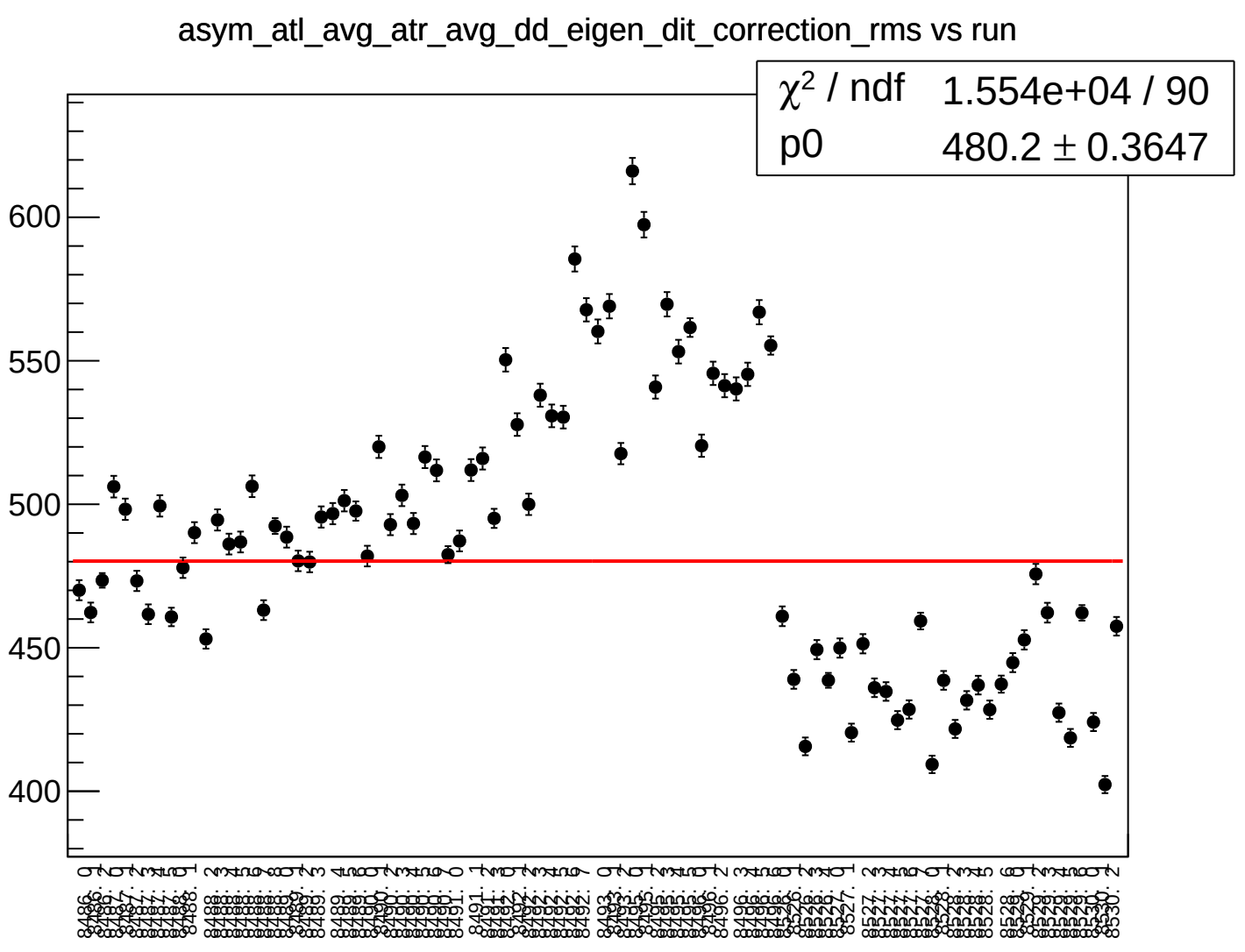

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
×10^3
χ² / ndf 68.65 / 90
p0 −9176 ± 1.667e+04
pull
Entries 91
Mean 1.117e+05
Std Dev 0

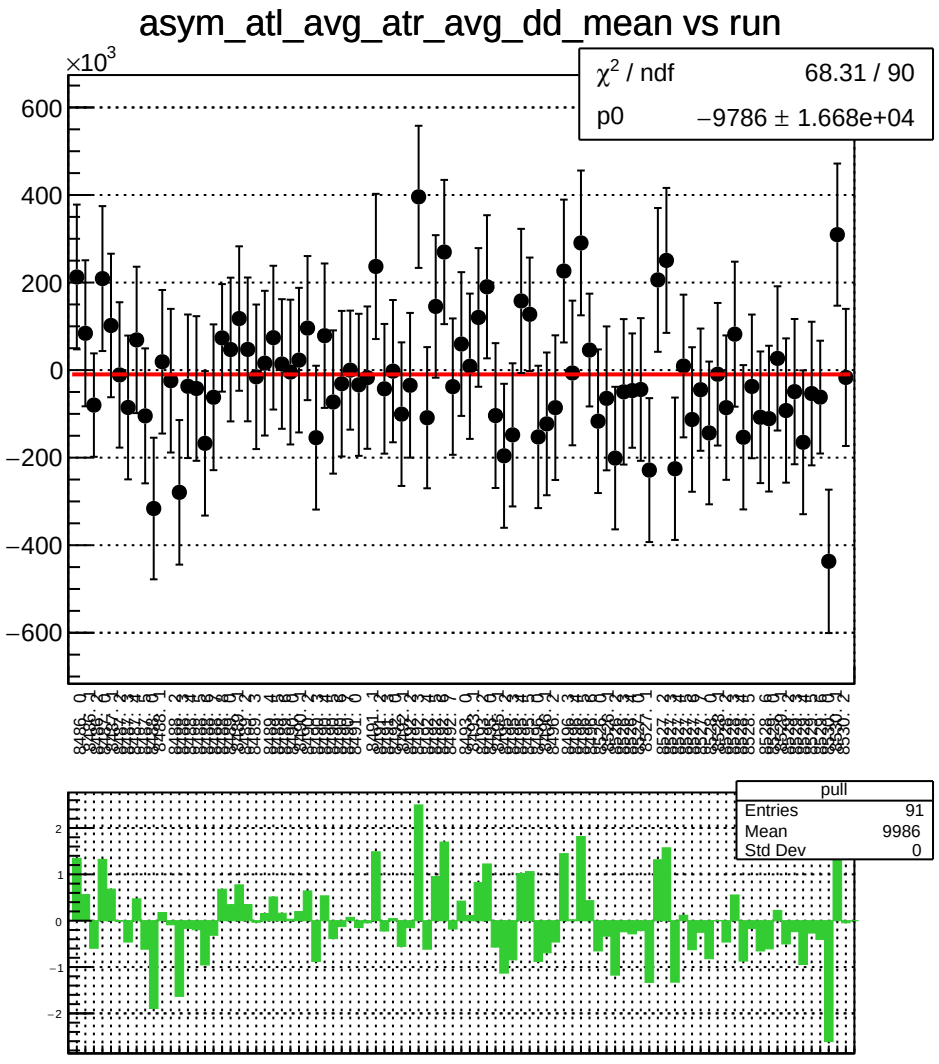

pull1D
Entries 91
Mean −2.91e−05
Std Dev 0.8686

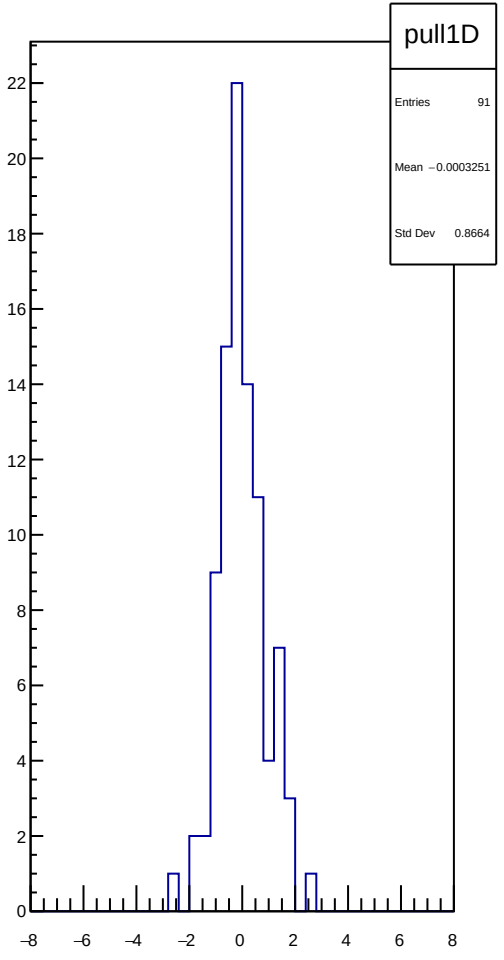

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 96.03 / 90
p0 1.559e+04 ± 11.79
16000
15900
15800
15700
15600
15500
15400
15300
15200
15100

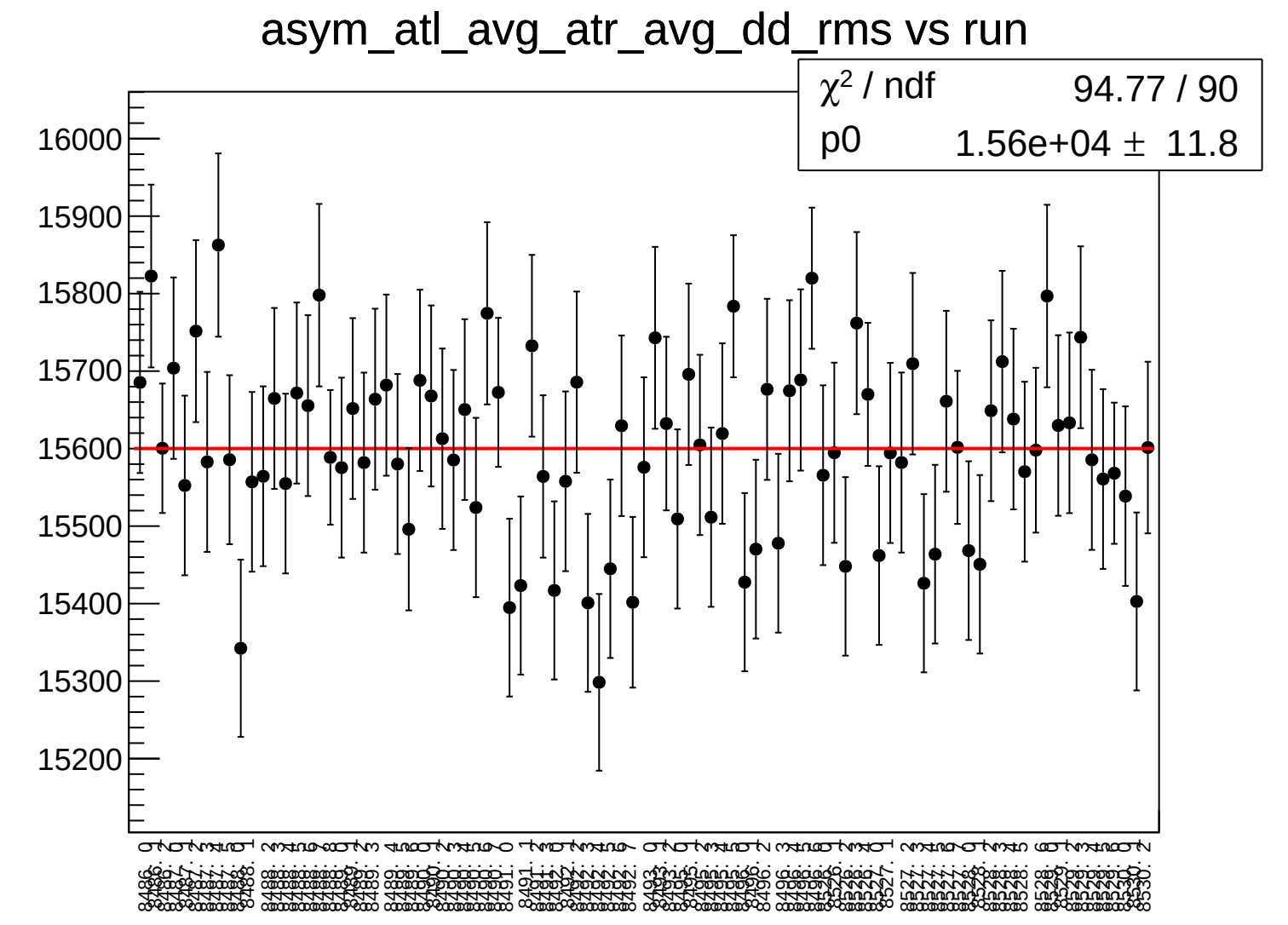

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 99.62 / 90
p0 368.8 ± 515.7
pull
Entries 91
Mean 30.86
Std Dev 0

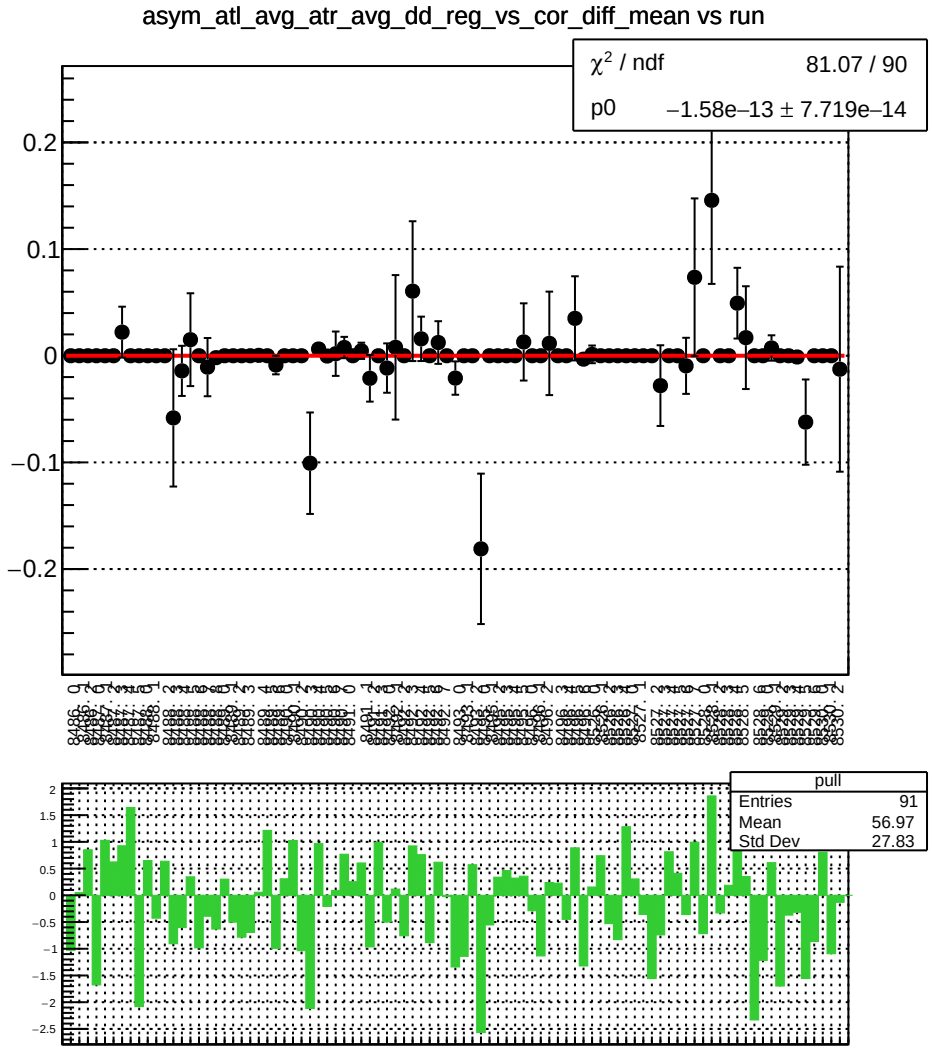

pull1D
Entries 91
Mean 0.03316
Std Dev 1.046

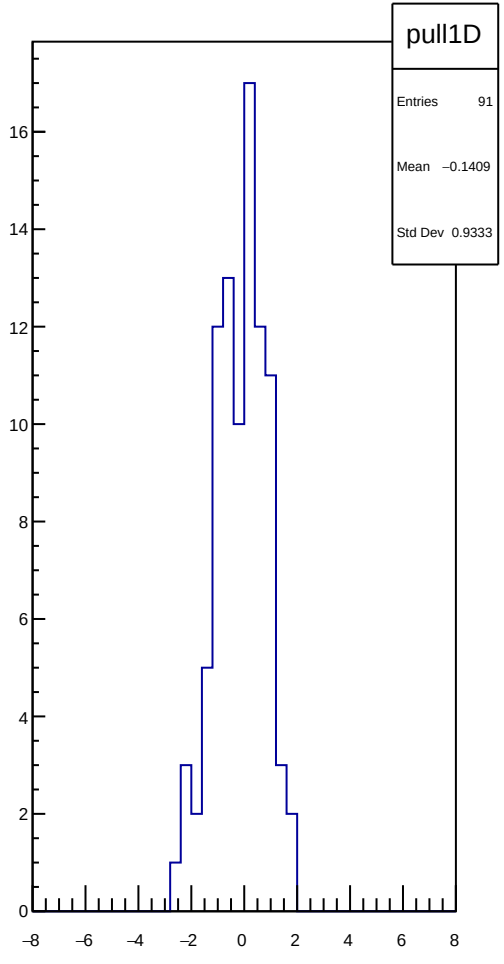

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.554e+04 / 90
p0 480.2 ± 0.3647
600
550
500
450
400

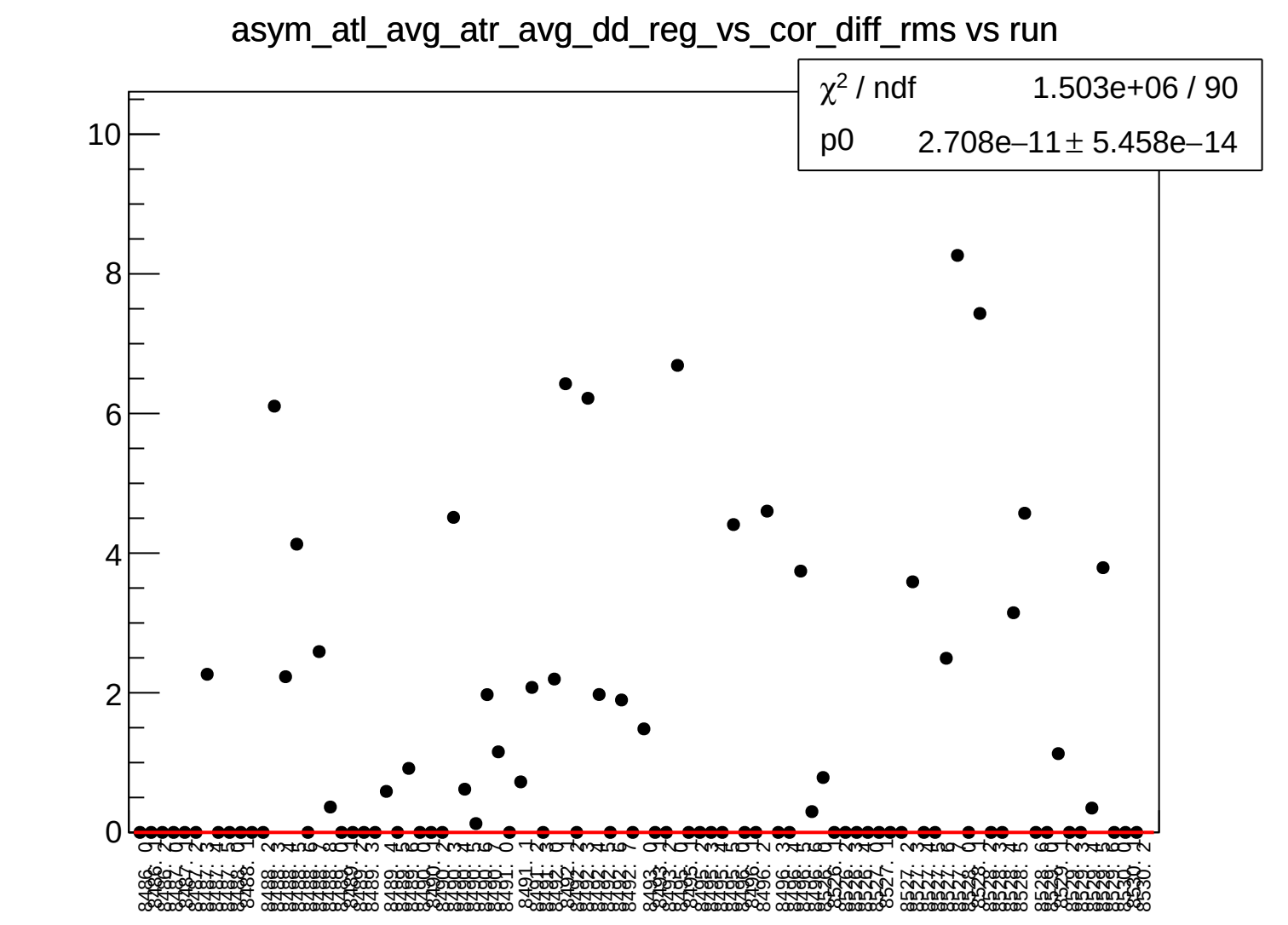

asym_atl_avg_atr_avg_dd_mean vs run
×10^3
χ² / ndf 68.31 / 90
p0 −9786 ± 1.668e+04
pull
Entries 91
Mean 9986
Std Dev 0

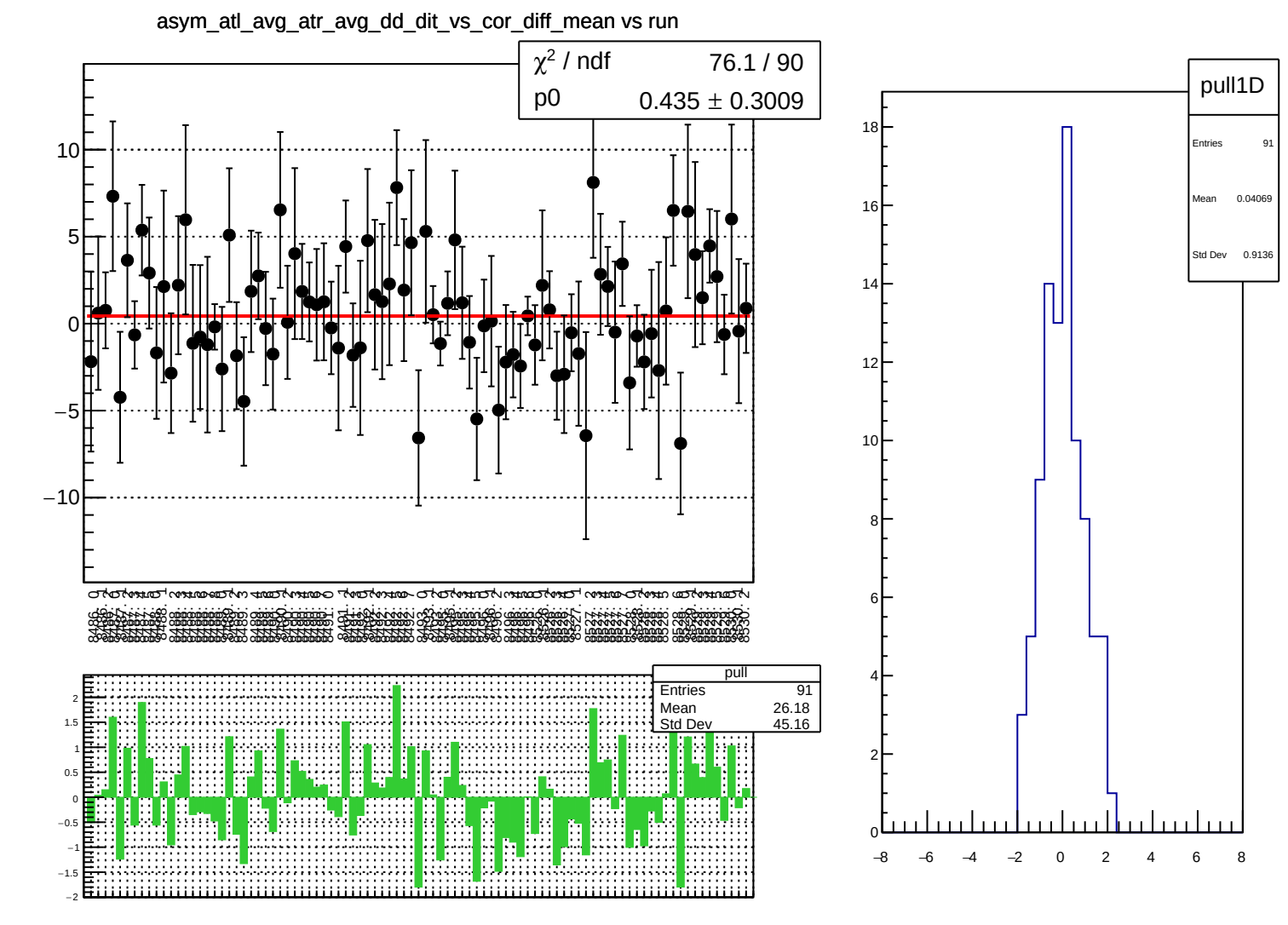

pull1D
Entries 91
Mean −0.0003251
Std Dev 0.8664

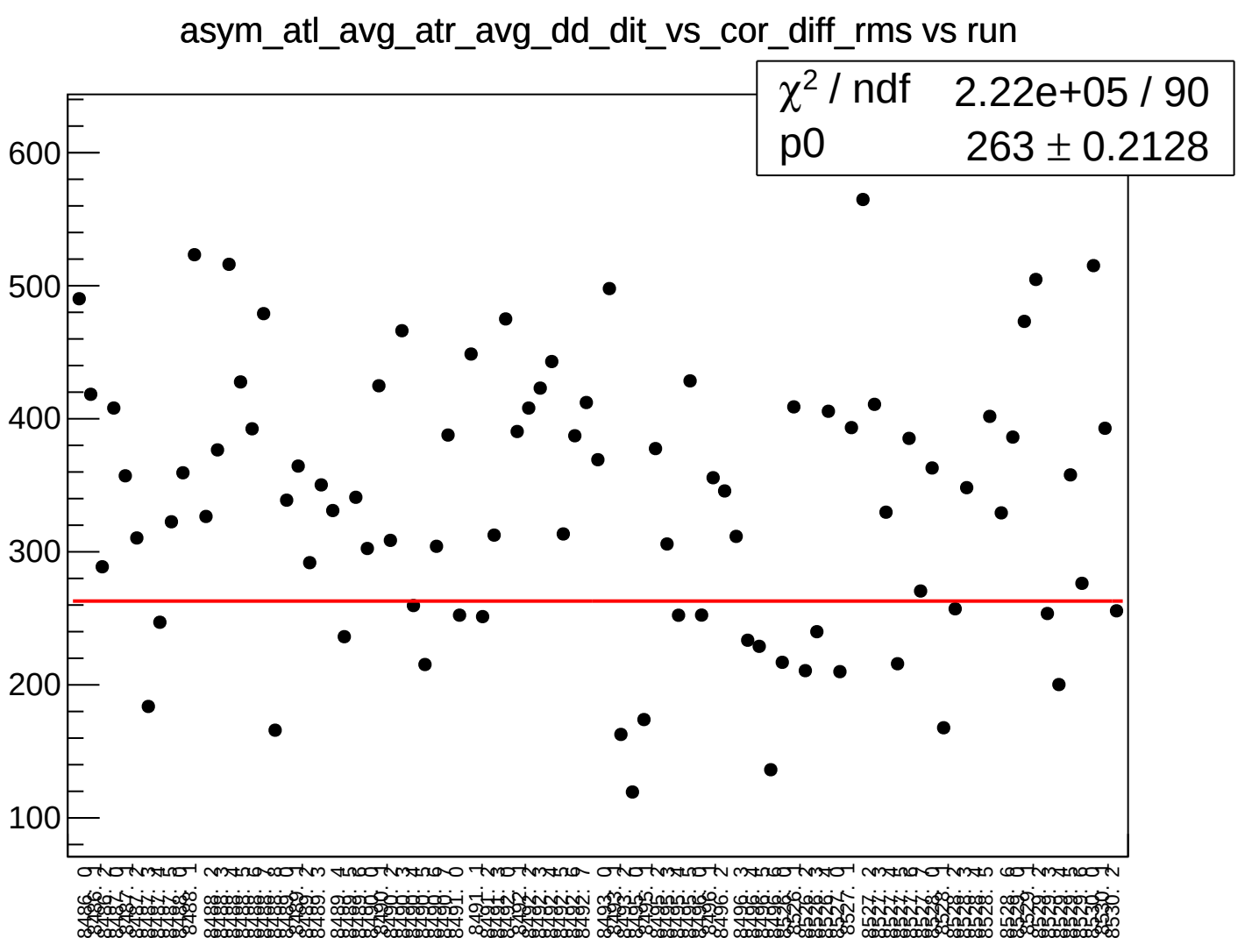

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 94.77 / 90
p0 1.56e+04 ± 11.8
16000
15900
15800
15700
15600
15500
15400
15300
15200

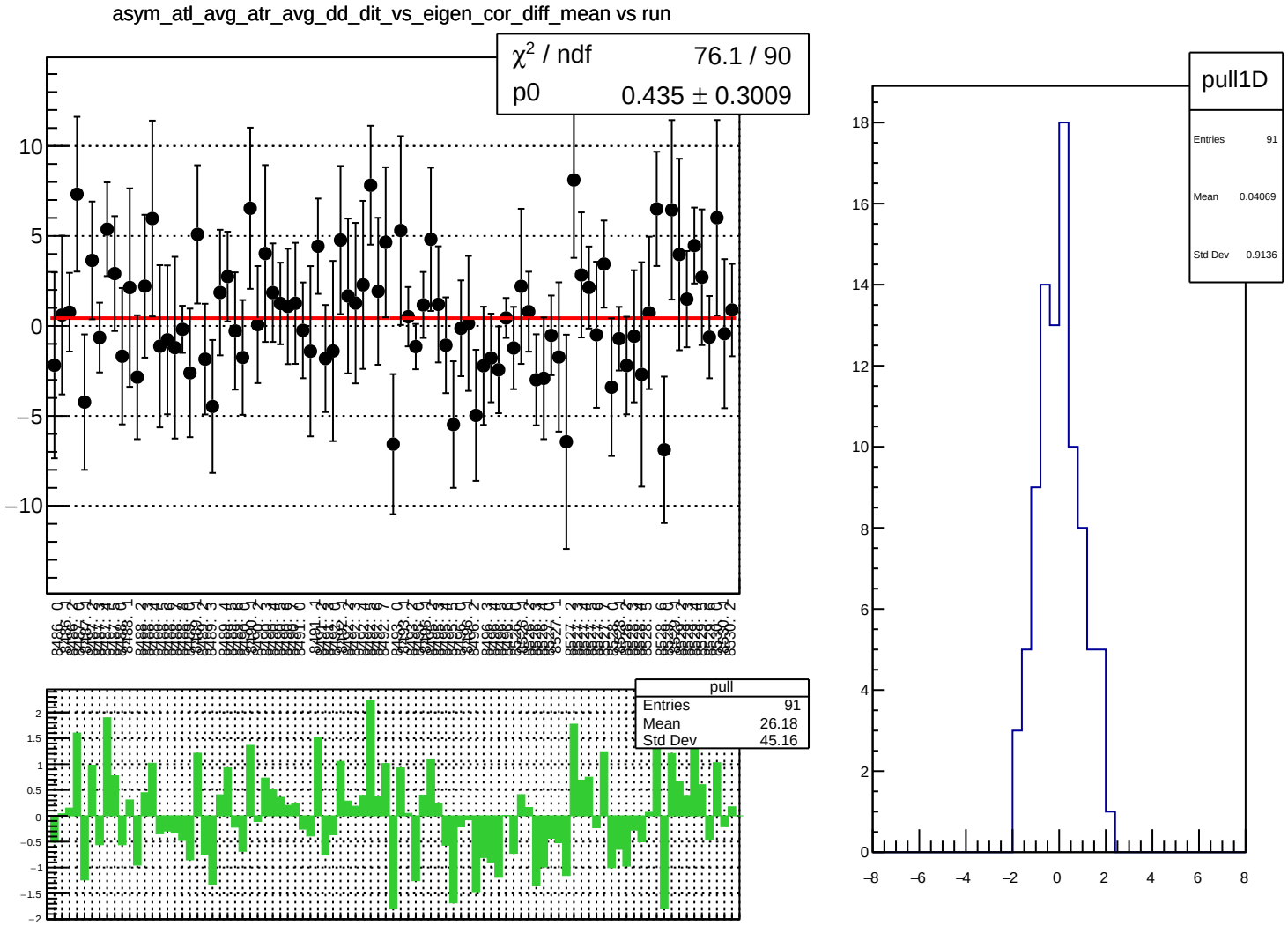

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 81.07 / 90
p0 −1.58e−13 ± 7.719e−14
pull
Entries 91
Mean 56.97
Std Dev 27.83

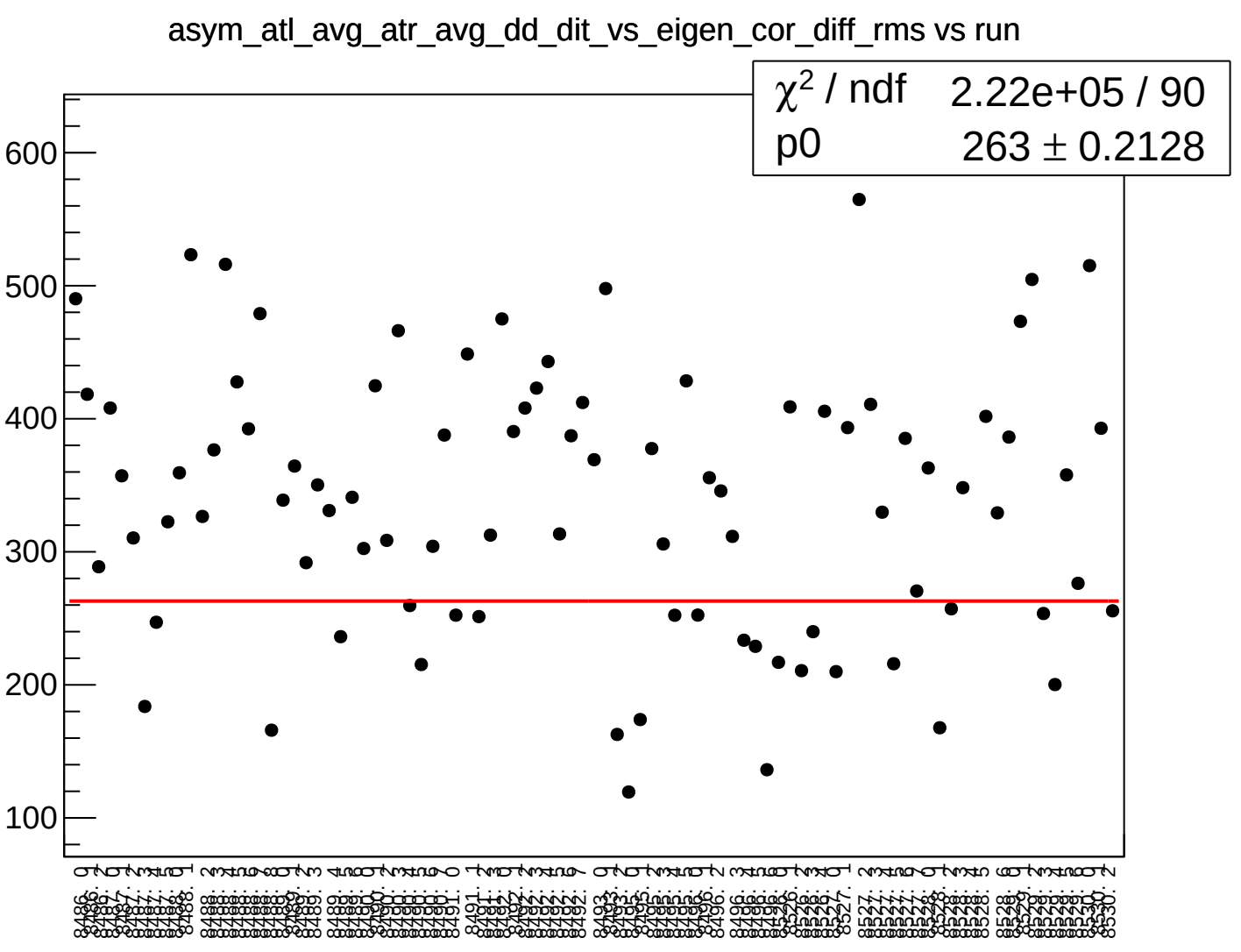

pull1D
Entries 91
Mean −0.1409
Std Dev 0.9333

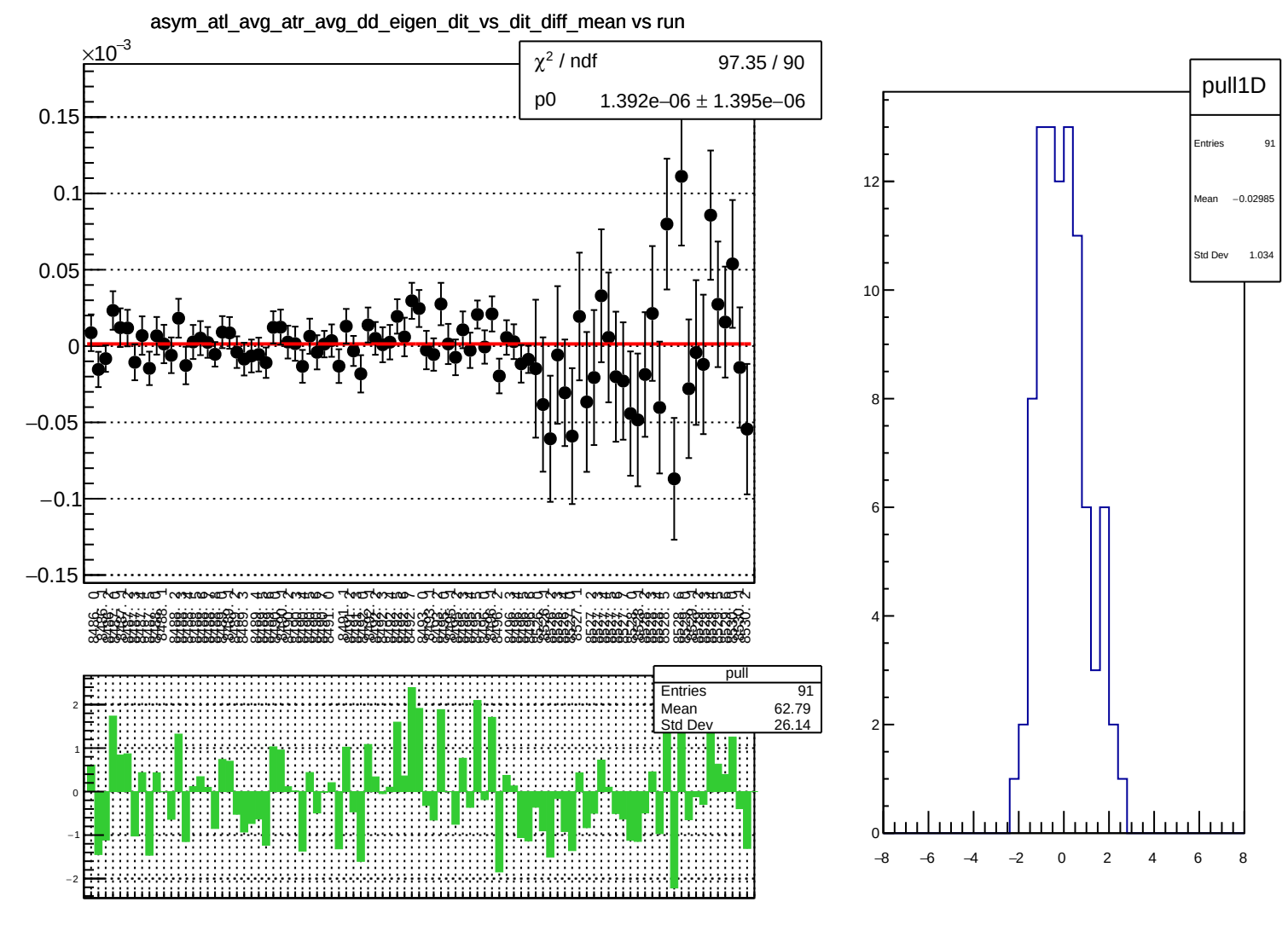

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.503e+06 / 90
p0 2.708e−11 ± 5.458e−14
10
8
6
4
2
0

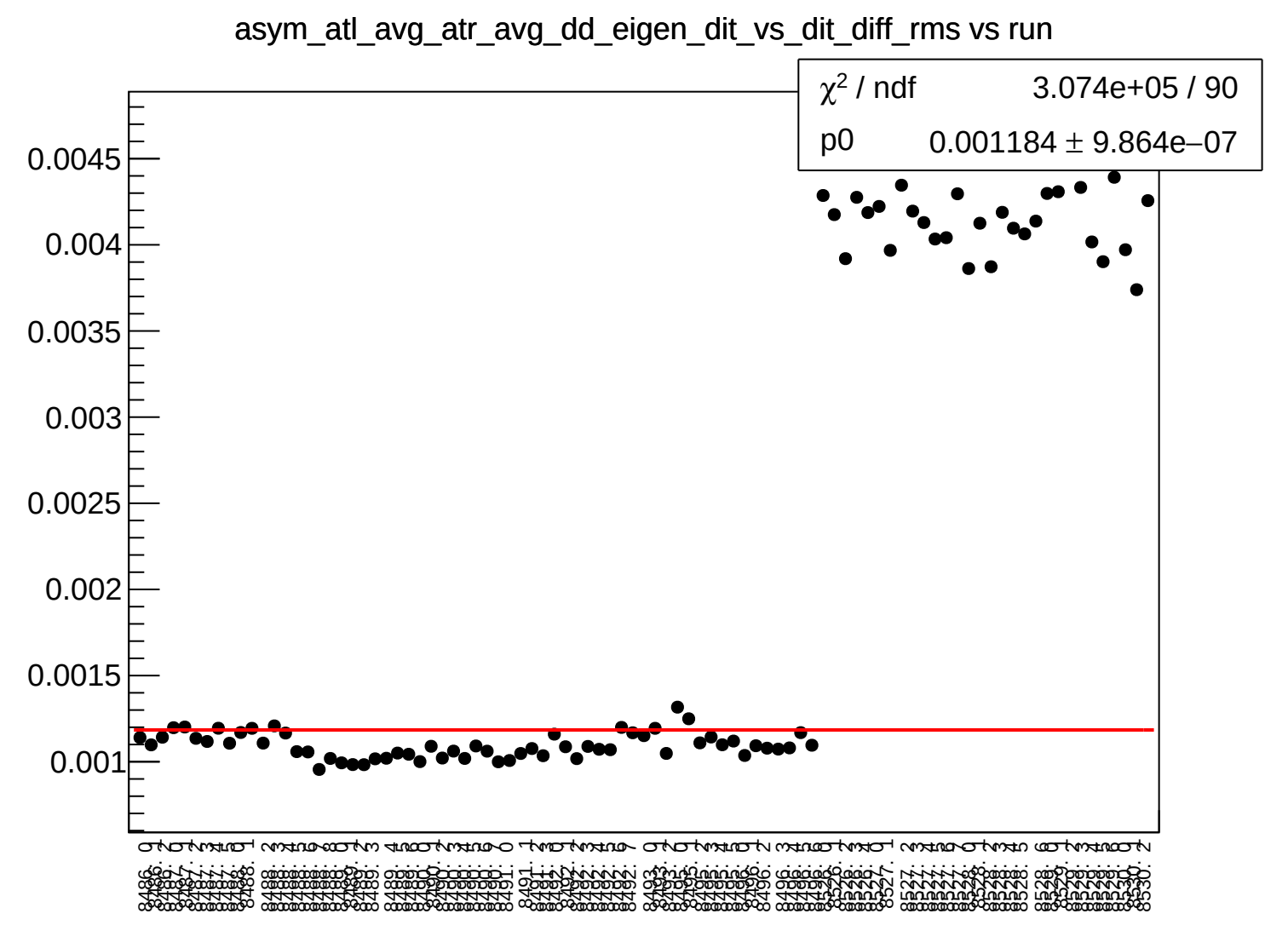

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 76.1 / 90
p0 0.435 ± 0.3009
pull
Entries 91
Mean 26.18
Std Dev 45.16
pull1D
Entries 91
Mean 0.04069
Std Dev 0.9136

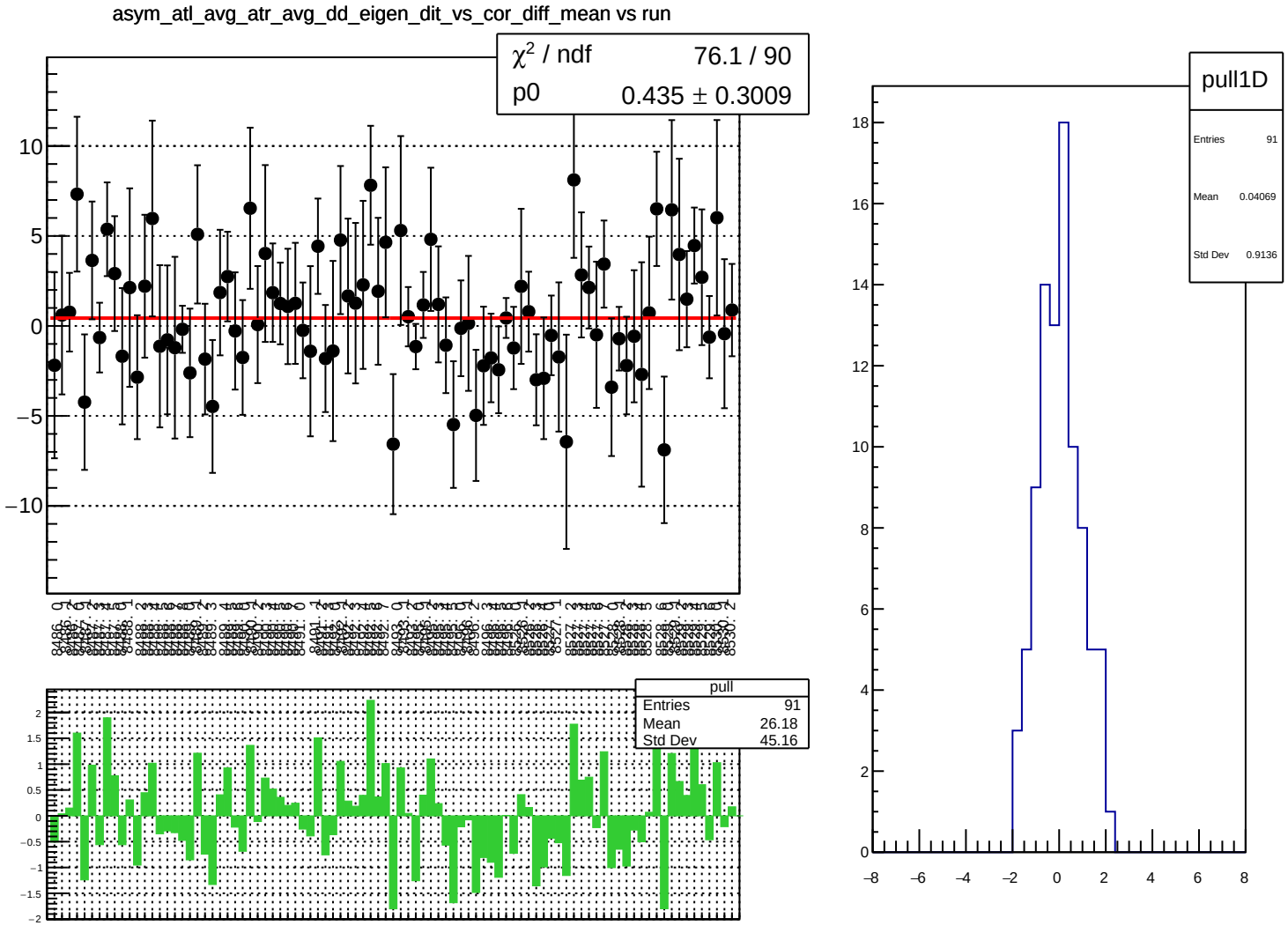

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.22e+05 / 90
p0 263 ± 0.2128
600
500
400
300
200
100

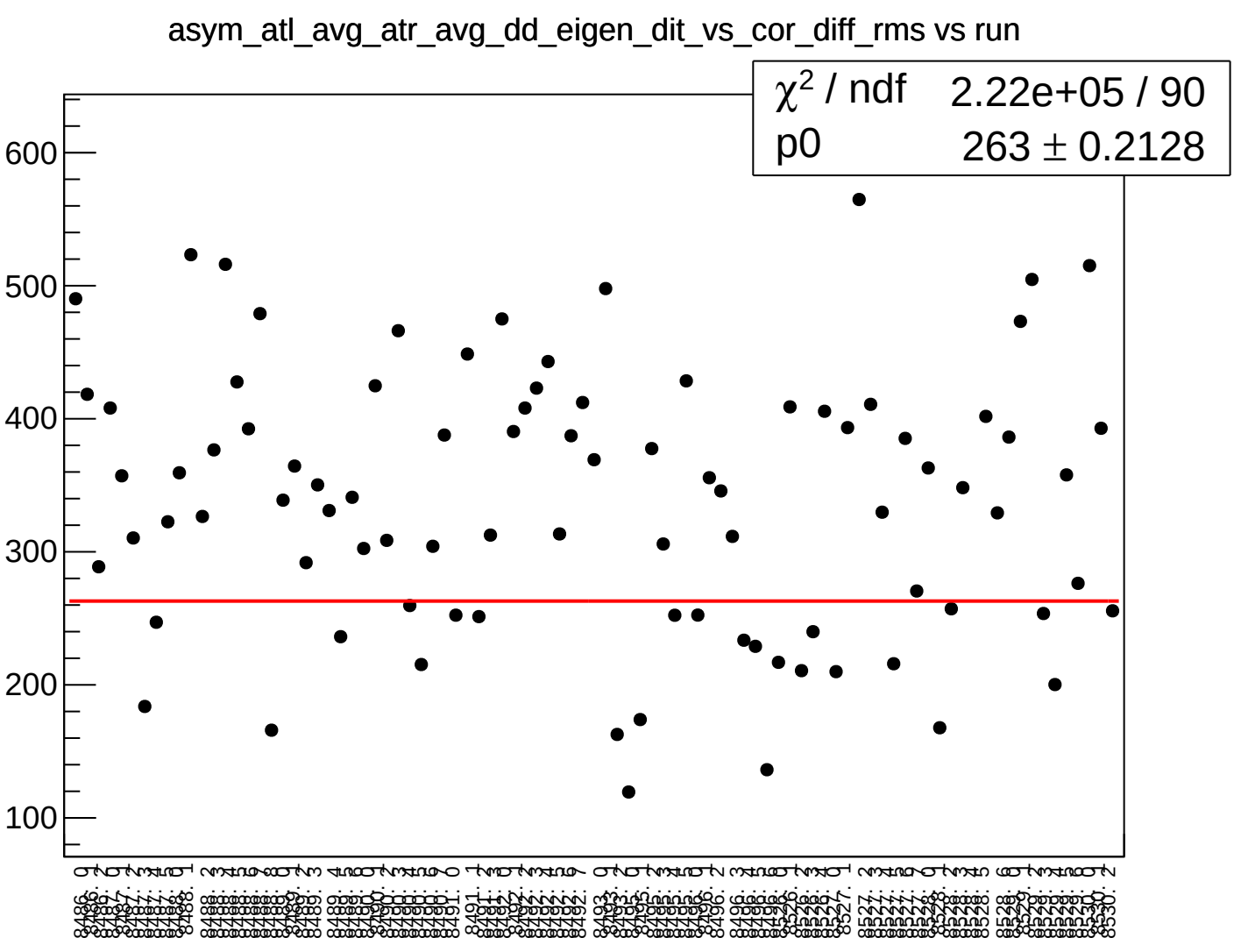

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.1 / 90
p0 0.435 ± 0.3009
pull
Entries 91
Mean 26.18
Std Dev 45.16
pull1D
Entries 91
Mean 0.04069
Std Dev 0.9136

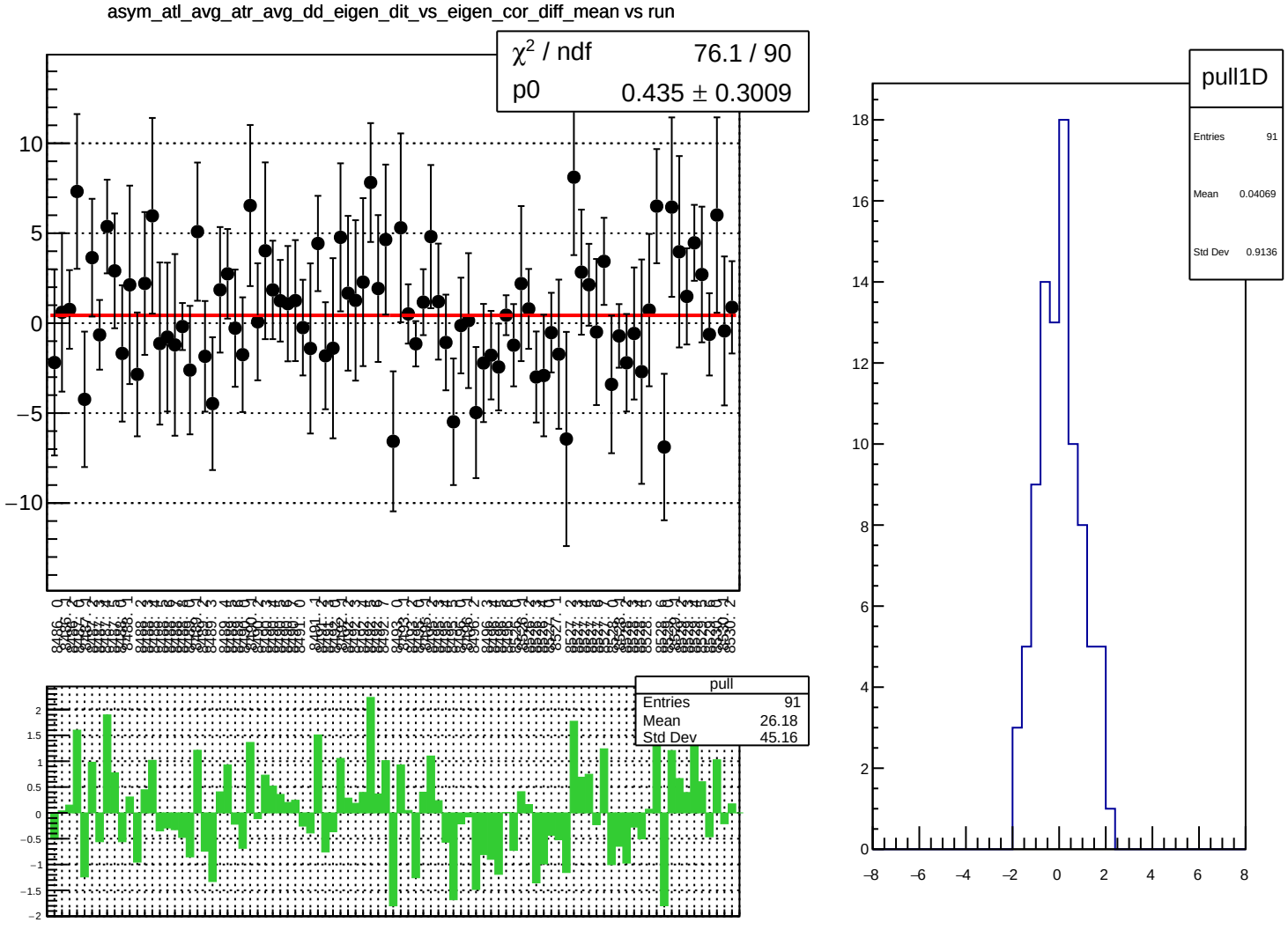

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.22e+05 / 90
p0 263 ± 0.2128
600
500
400
300
200
100

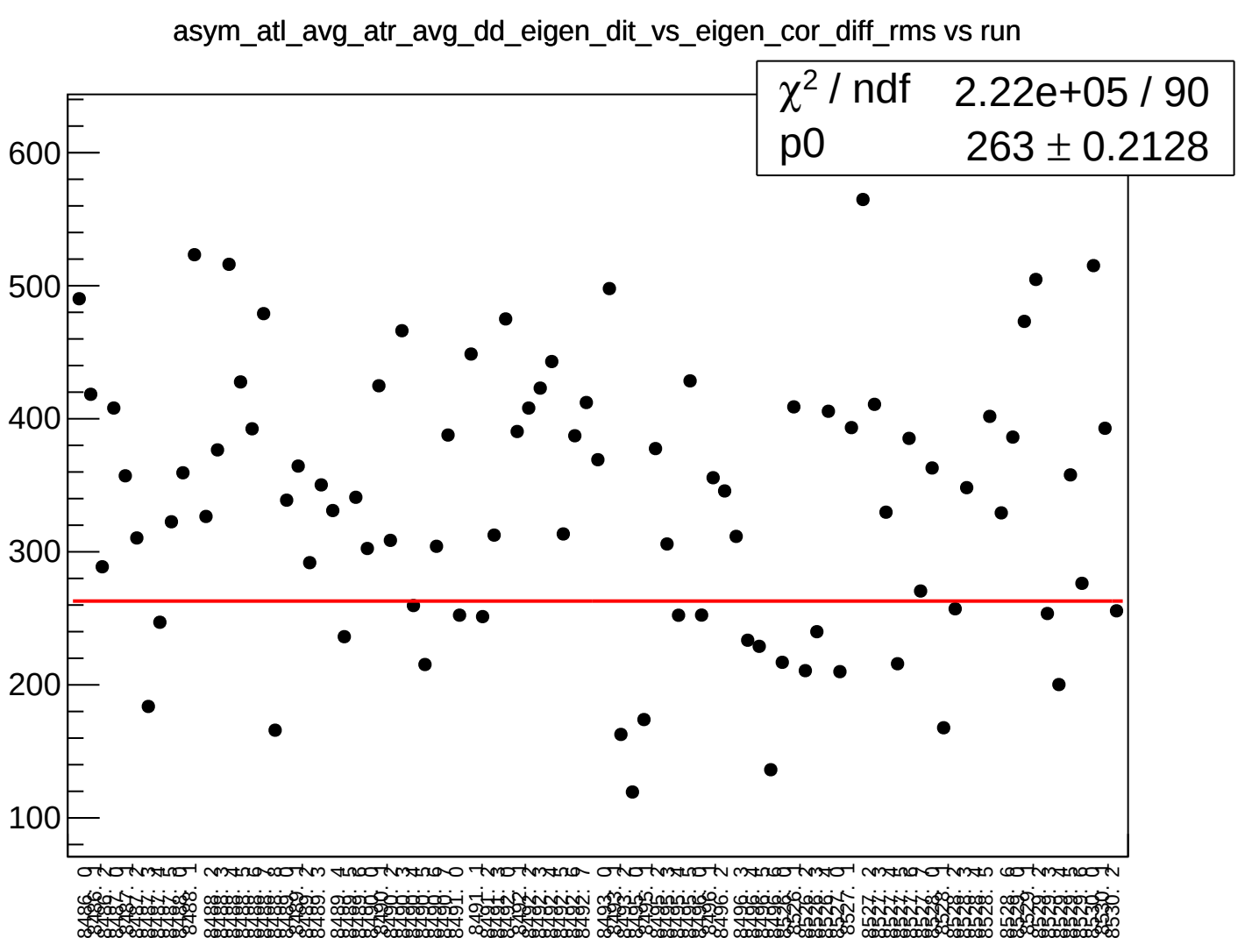

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.35 / 90
p0 1.392e−06 ± 1.395e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 91
Mean 62.79
Std Dev 26.14
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.02985
Std Dev 1.034
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

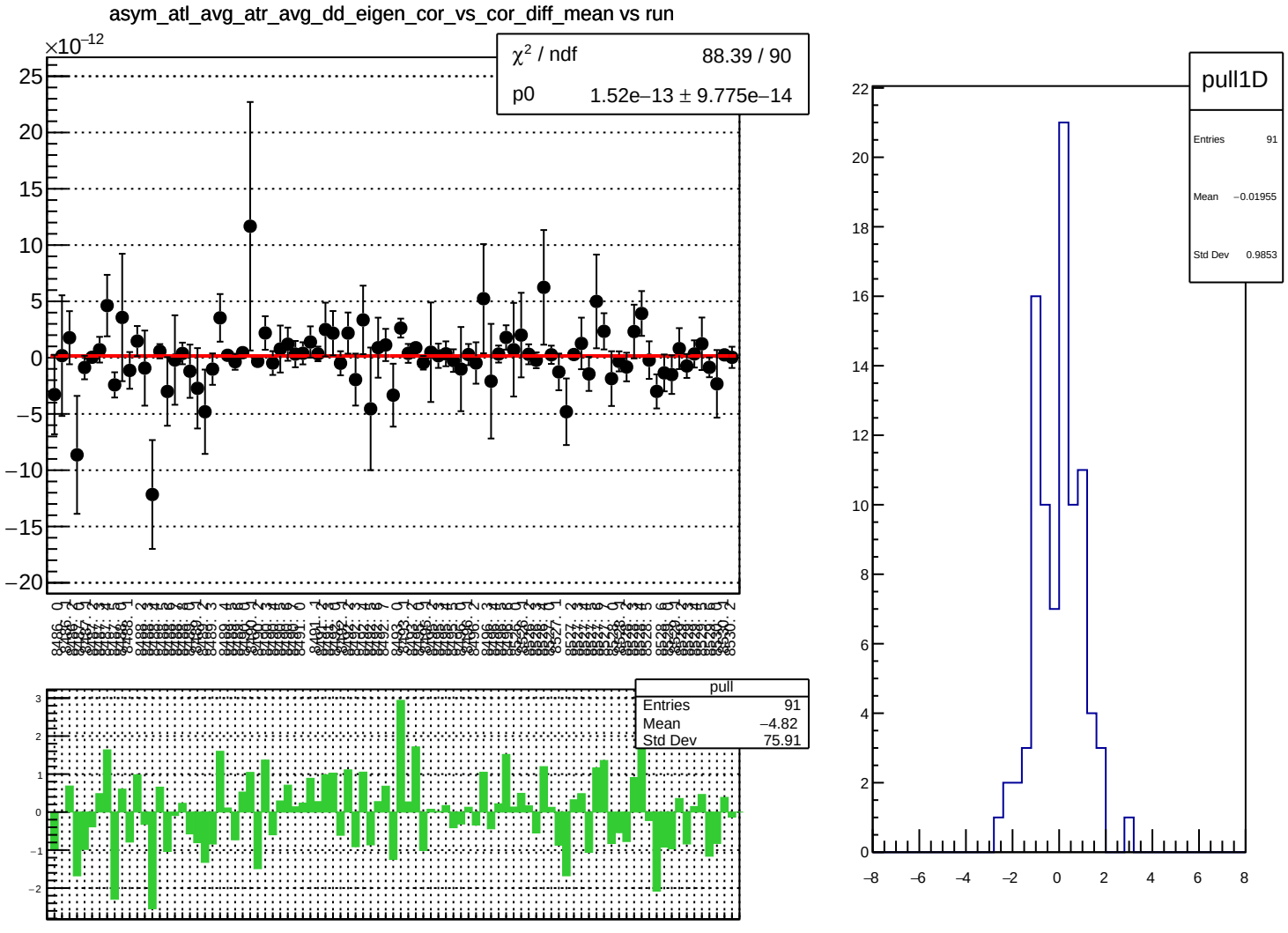

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.074e+05 / 90
p0 0.001184 ± 9.864e−07
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

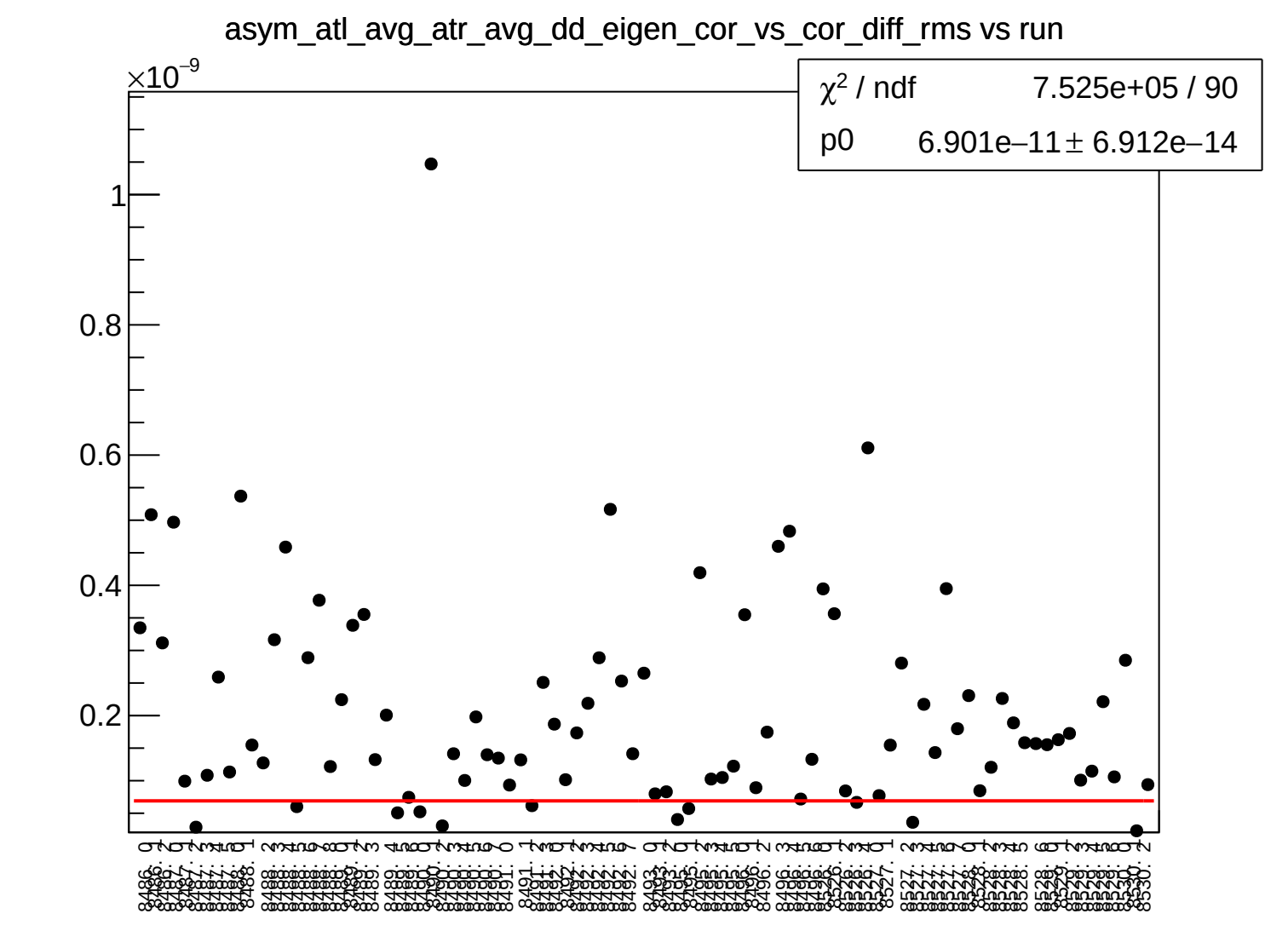

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.1 / 90
p0 0.435 ± 0.3009
pull
Entries 91
Mean 26.18
Std Dev 45.16
pull1D
Entries 91
Mean 0.04069
Std Dev 0.9136

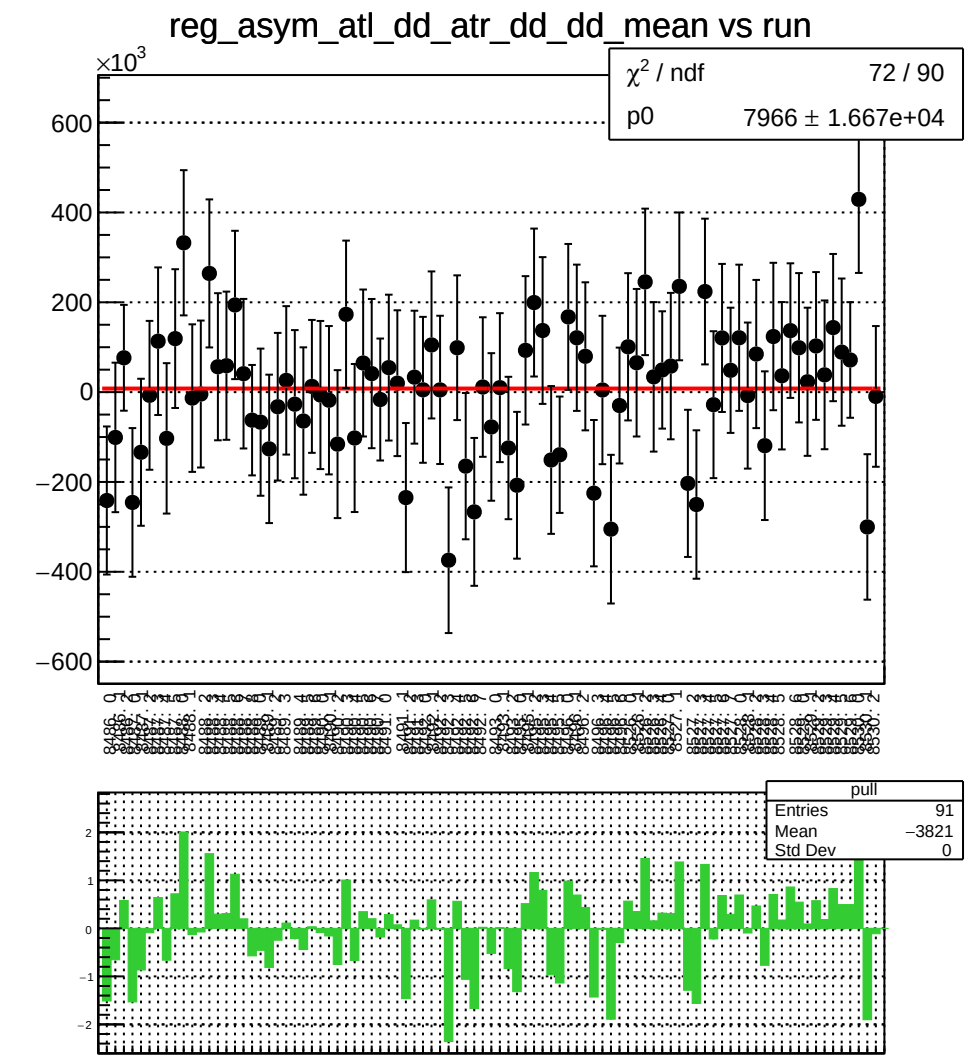

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.22e+05 / 90
p0 263 ± 0.2128
600
500
400
300
200
100

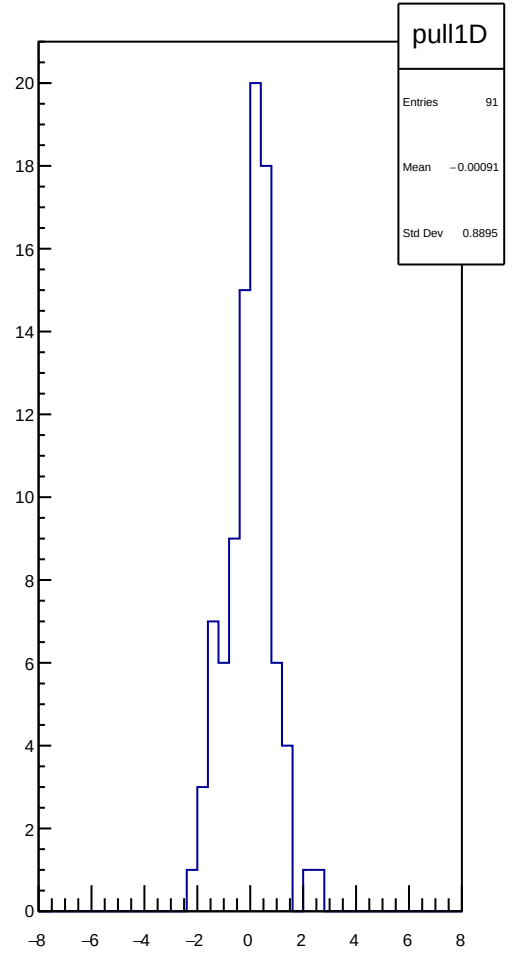

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.1 / 90
p0 0.435 ± 0.3009
pull
Entries 91
Mean 26.18
Std Dev 45.16
pull1D
Entries 91
Mean 0.04069
Std Dev 0.9136

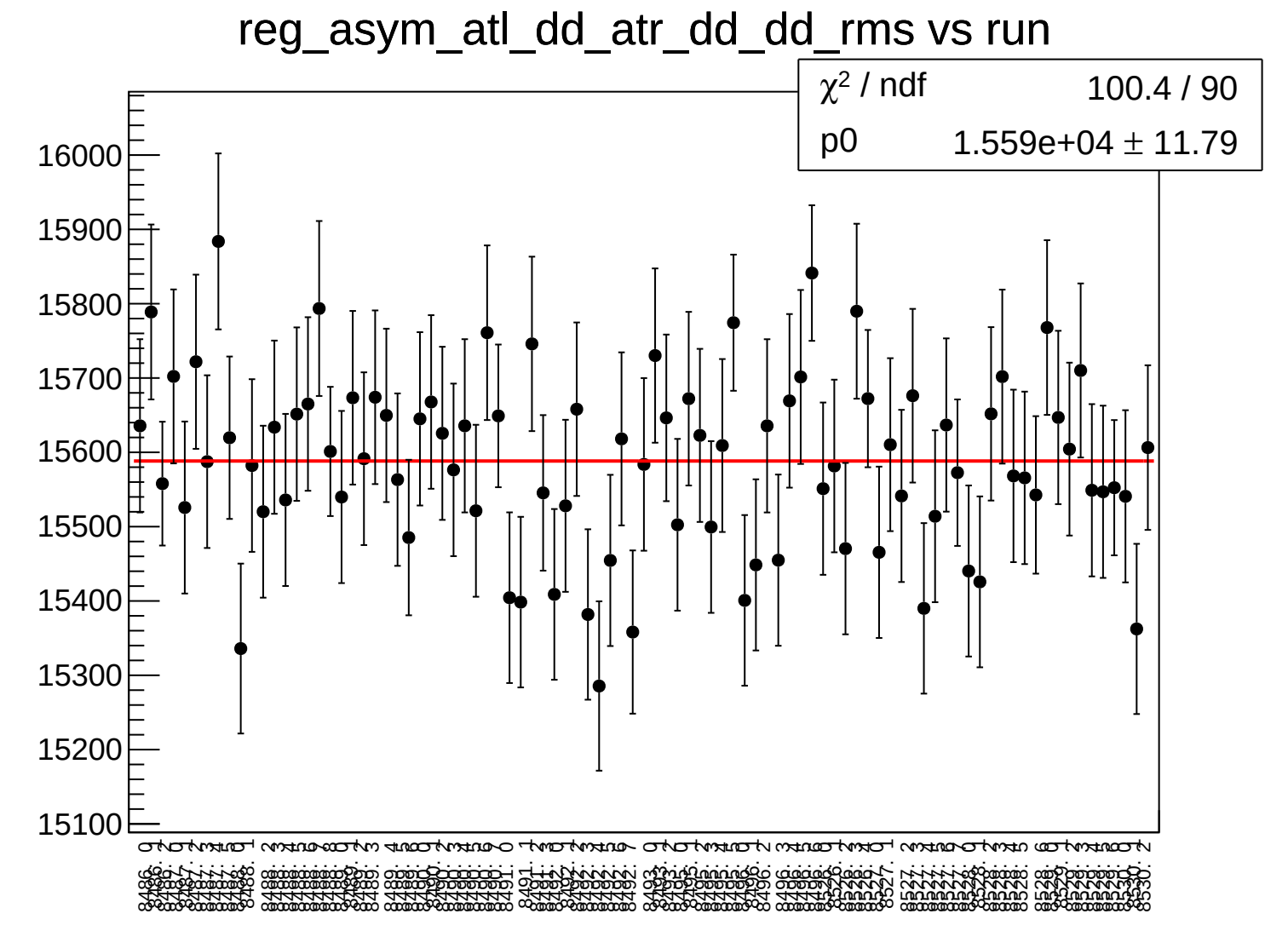

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.22e+05 / 90
p0 263 ± 0.2128
600
500
400
300
200
100

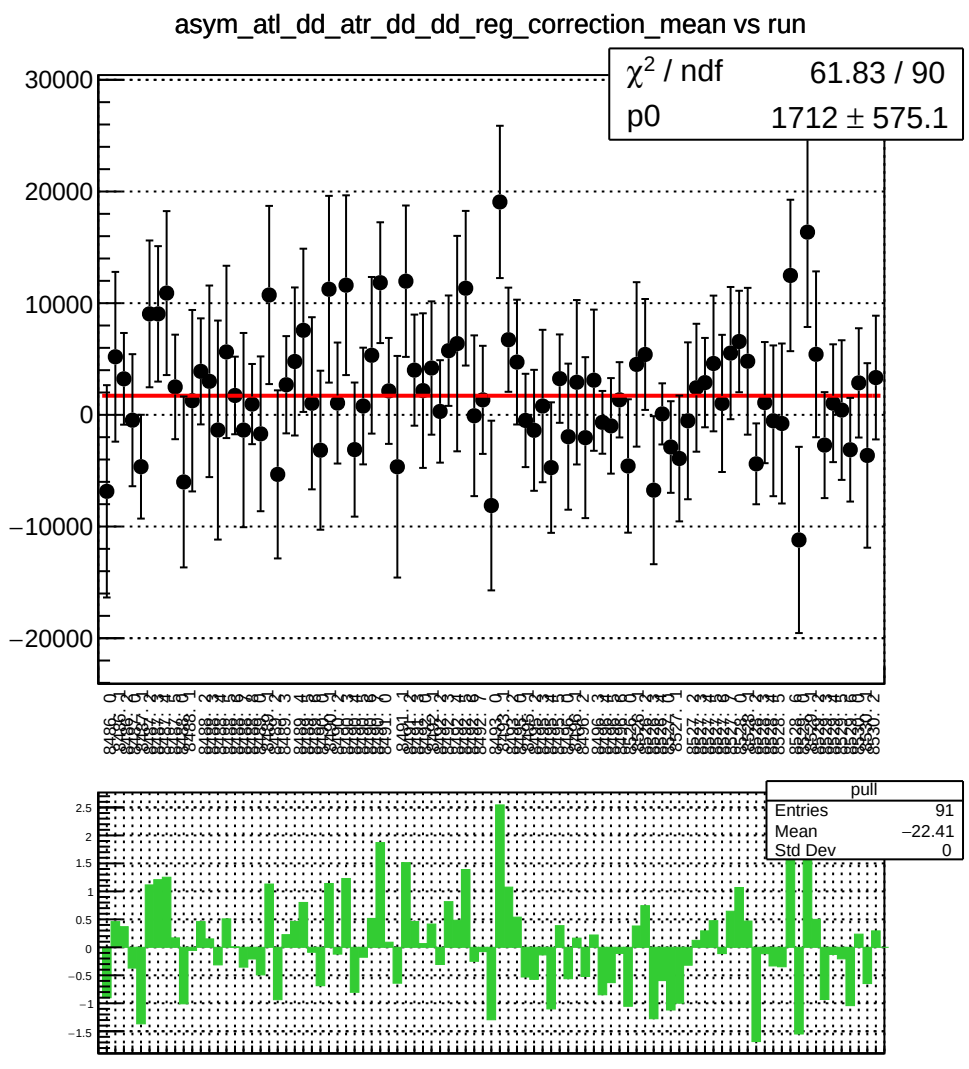

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.39 / 90
p0 1.52e−13 ± 9.775e−14
pull
Entries 91
Mean −4.82
Std Dev 75.91
pull1D
Entries 91
Mean −0.01955
Std Dev 0.9853

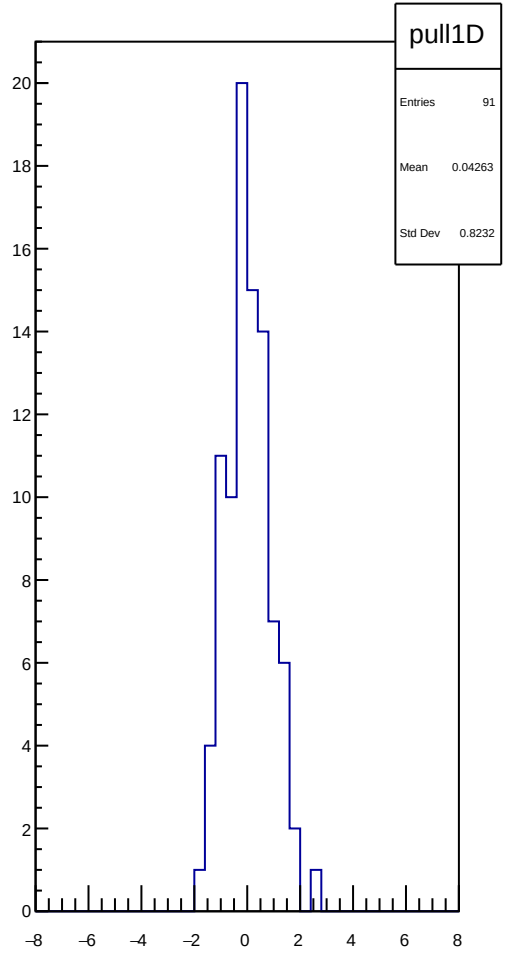

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.525e+05 / 90
p0 6.901e−11 ± 6.912e−14
1
0.8
0.6
0.4
0.2

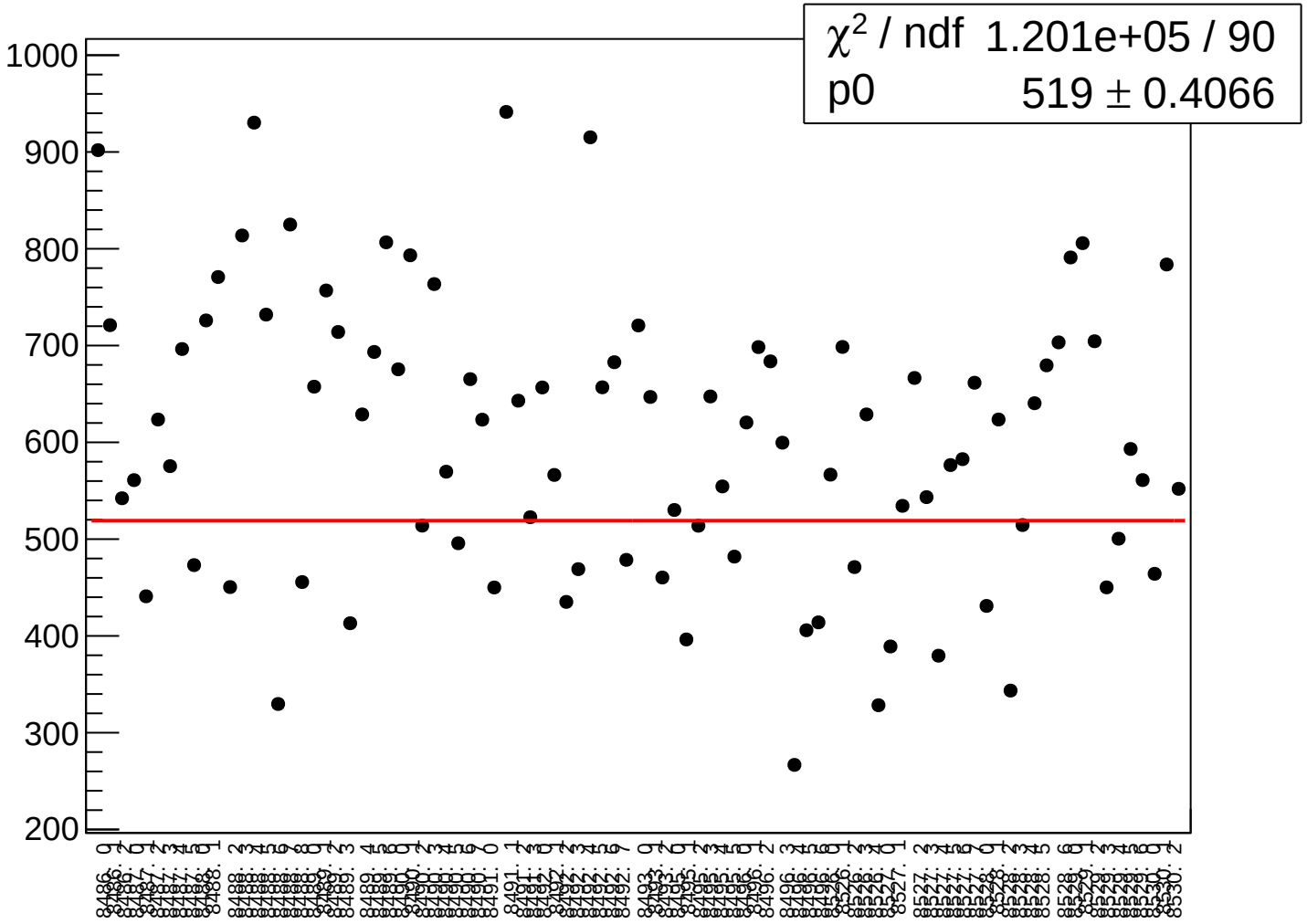

reg_asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ² / ndf 72 / 90
p0 7966 ± 1.667e+04
pull
Entries 91
Mean −3821
Std Dev 0

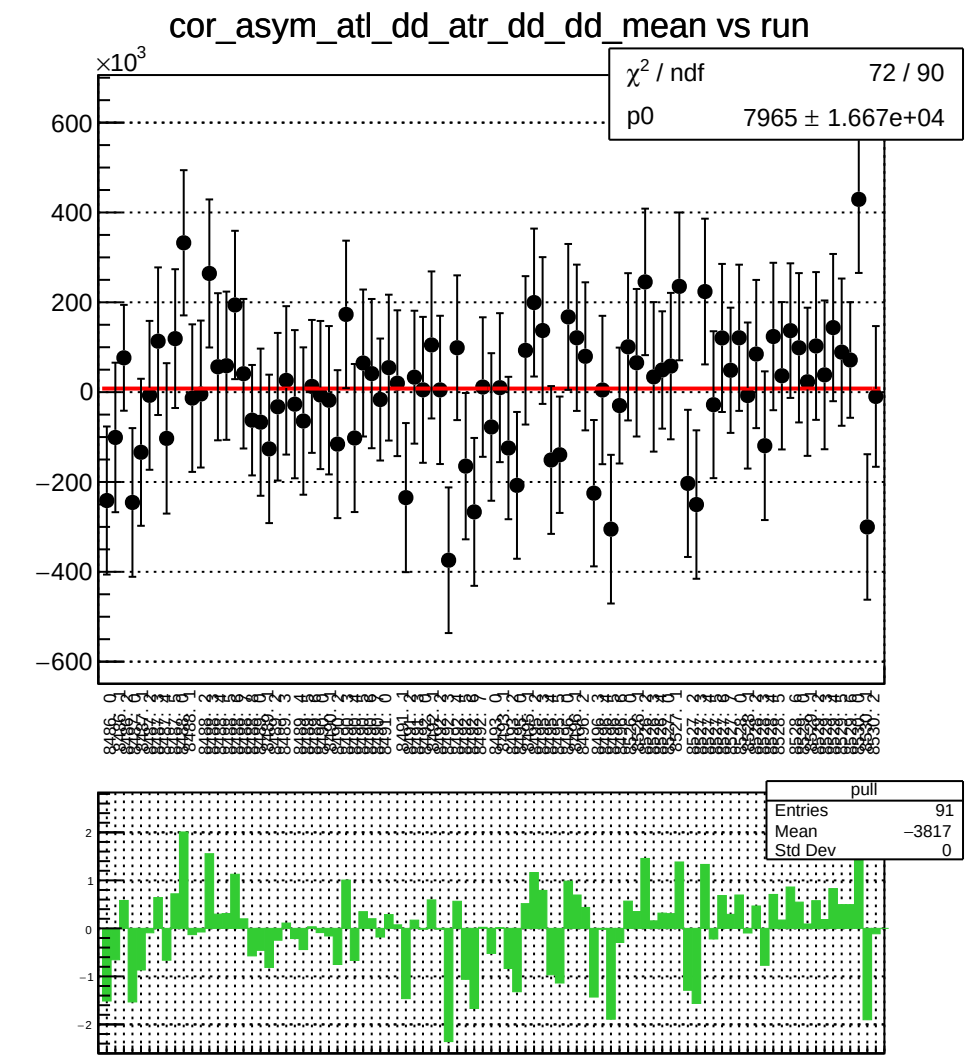

pull1D
Entries 91
Mean −0.00091
Std Dev 0.8895

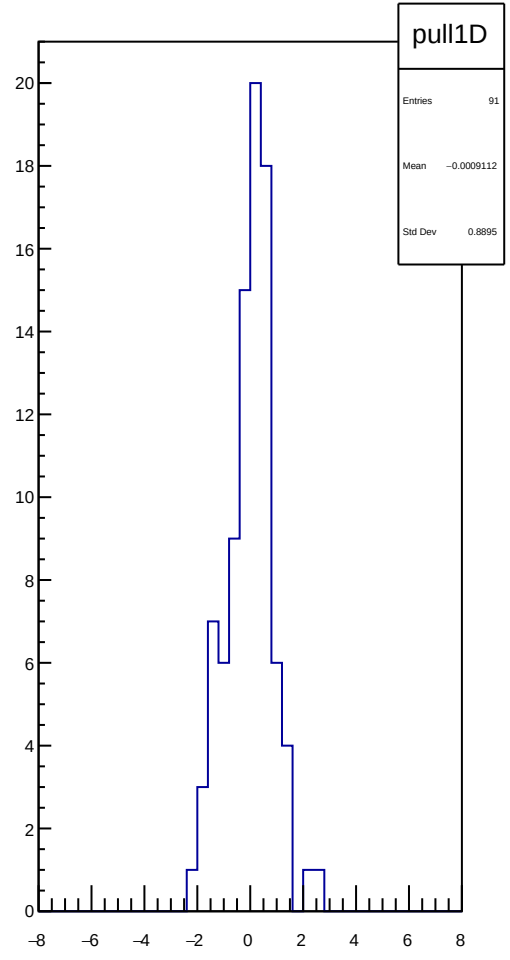

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 100.4 / 90
p0 1.559e+04 ± 11.79
16000
15900
15800
15700
15600
15500
15400
15300
15200
15100

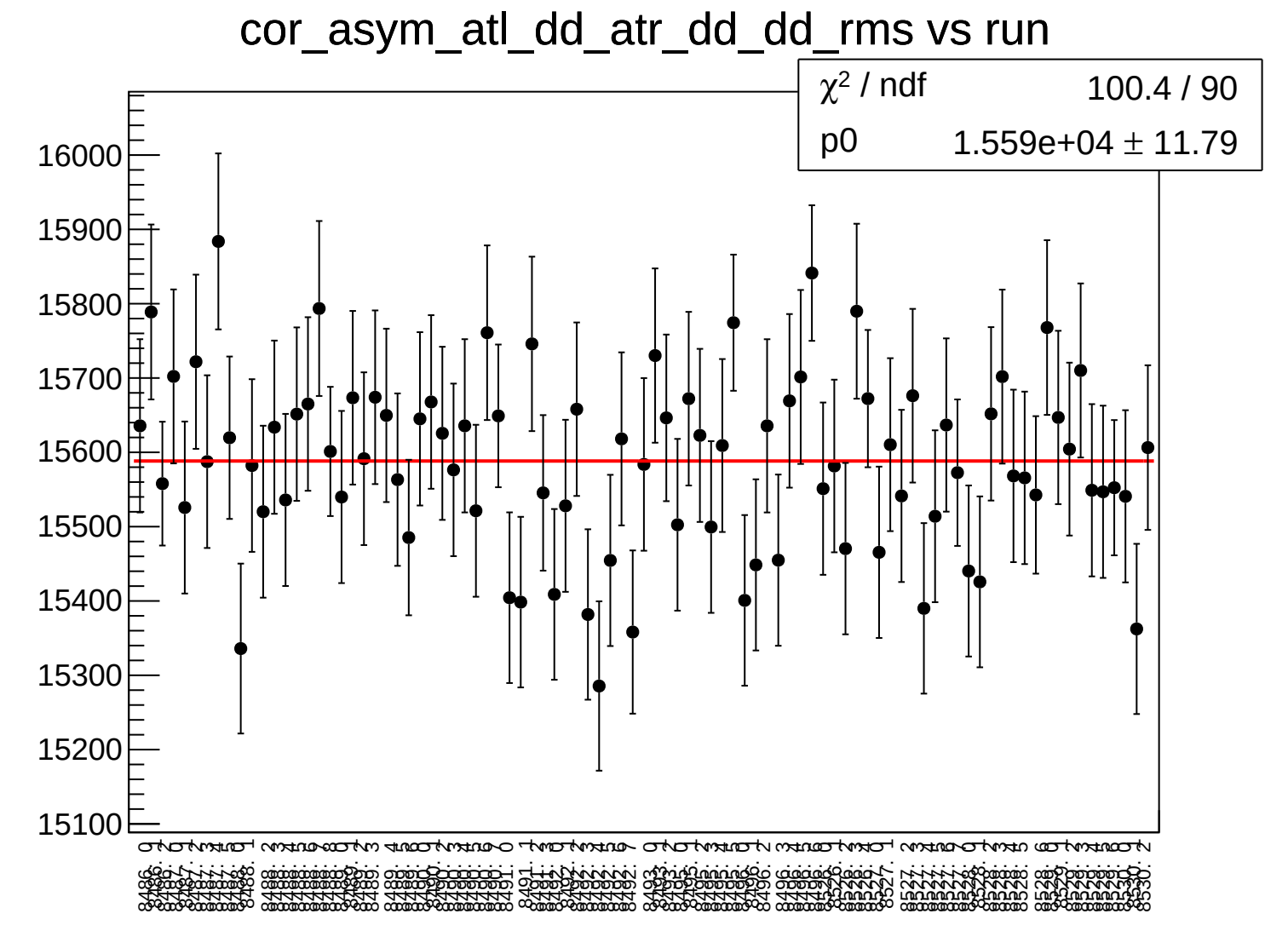

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 61.83 / 90
p0 1712 ± 575.1
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean −22.41
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

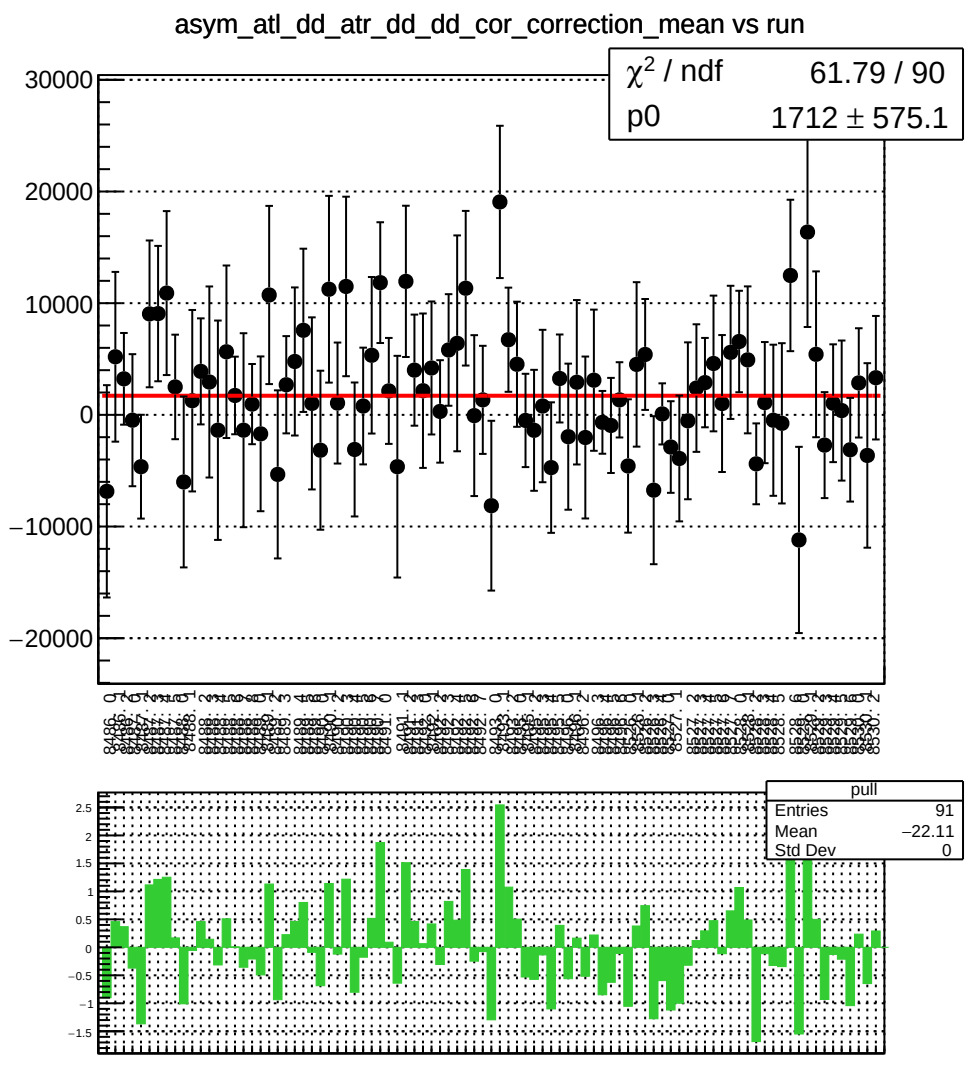

pull1D
Entries 91
Mean 0.04263
Std Dev 0.8232
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

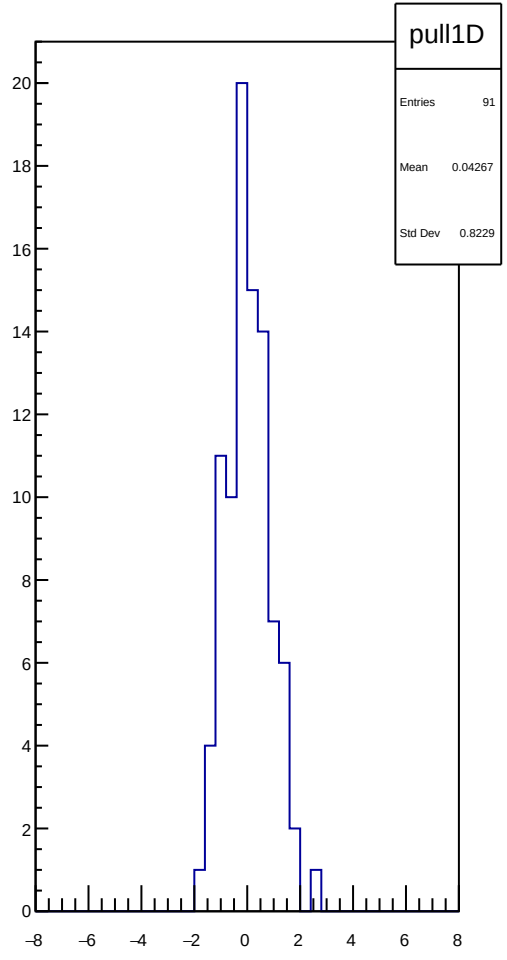

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.201e+05 / 90
p0 519 ± 0.4066
1000
900
800
700
600
500
400
300
200

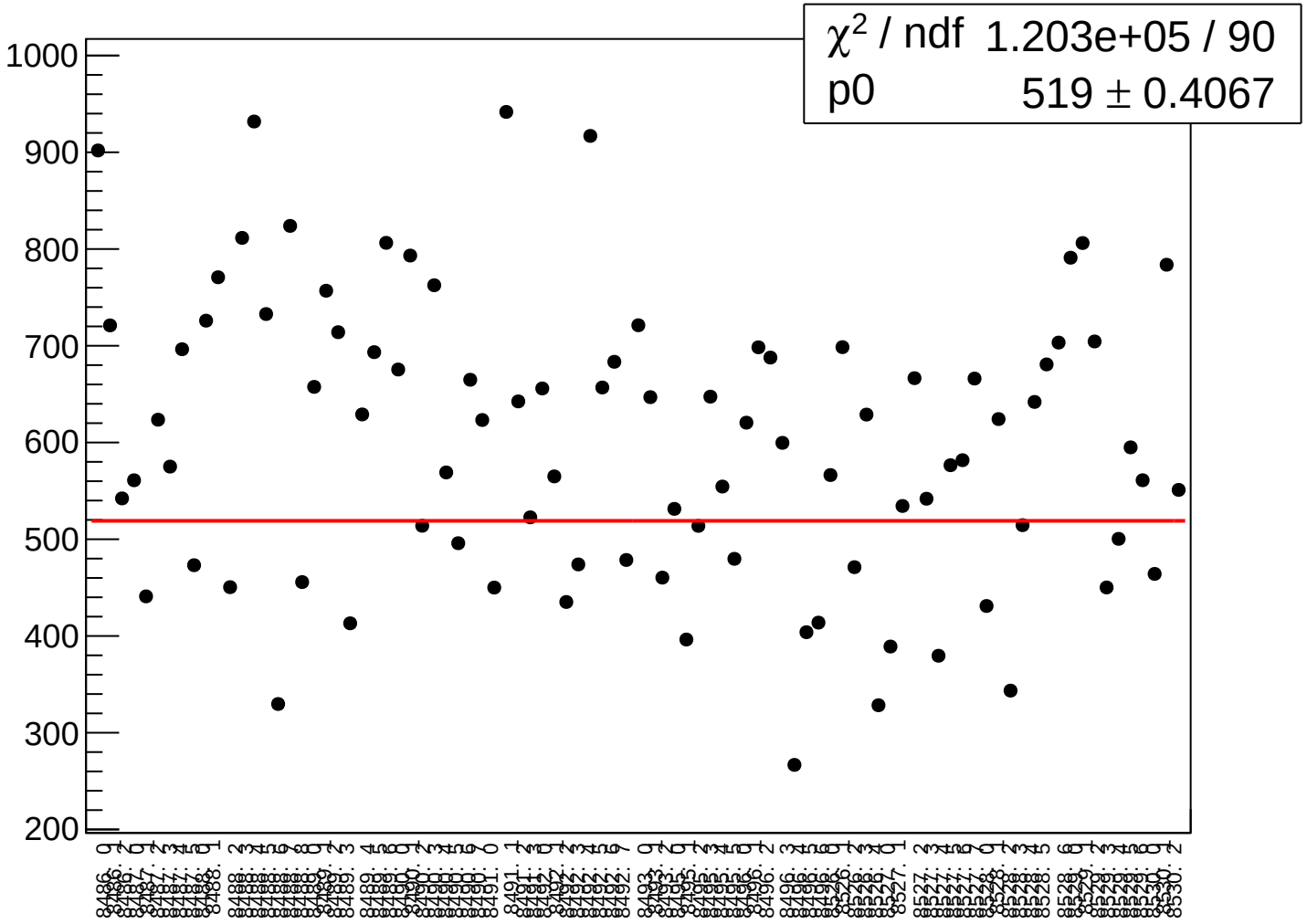

cor_asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ² / ndf 72 / 90
p0 7965 ± 1.667e+04
pull
Entries 91
Mean −3817
Std Dev 0

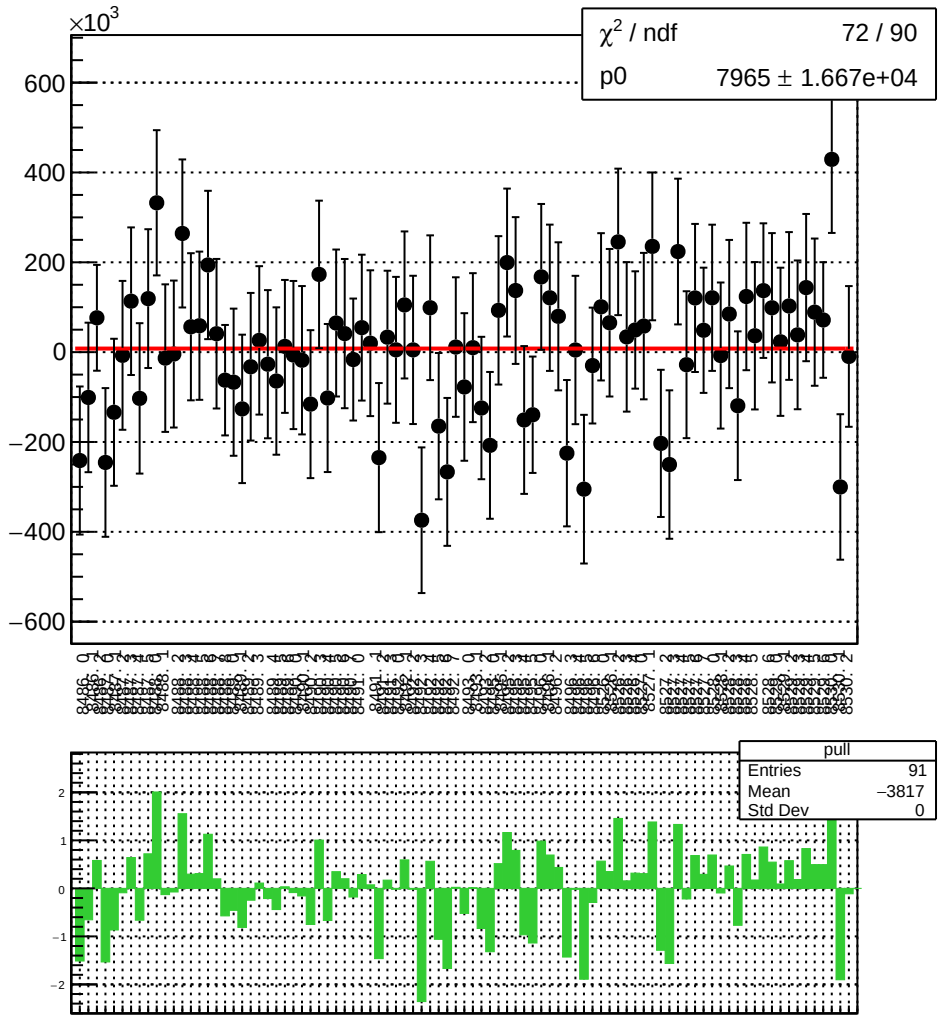

pull1D
Entries 91
Mean −0.0009112
Std Dev 0.8895

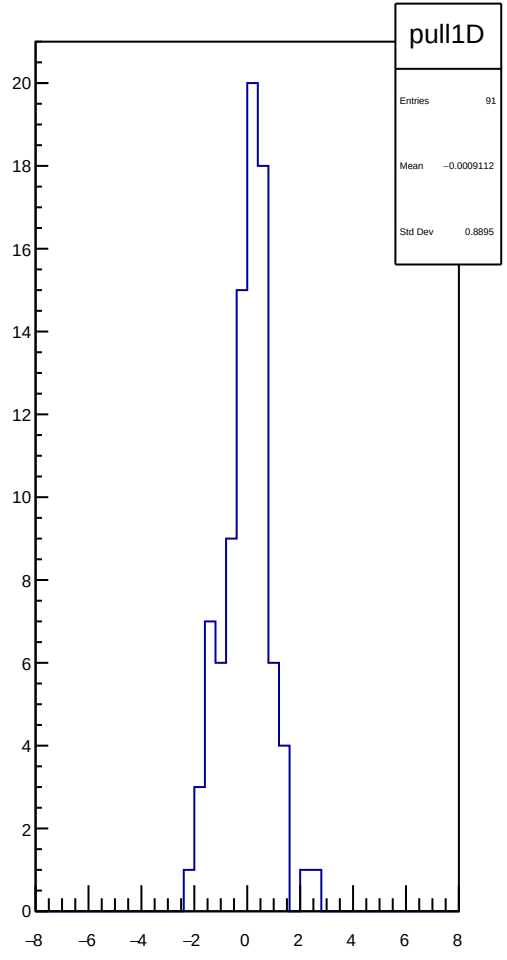

cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 100.4 / 90
p0 1.559e+04 ± 11.79
16000
15900
15800
15700
15600
15500
15400
15300
15200
15100

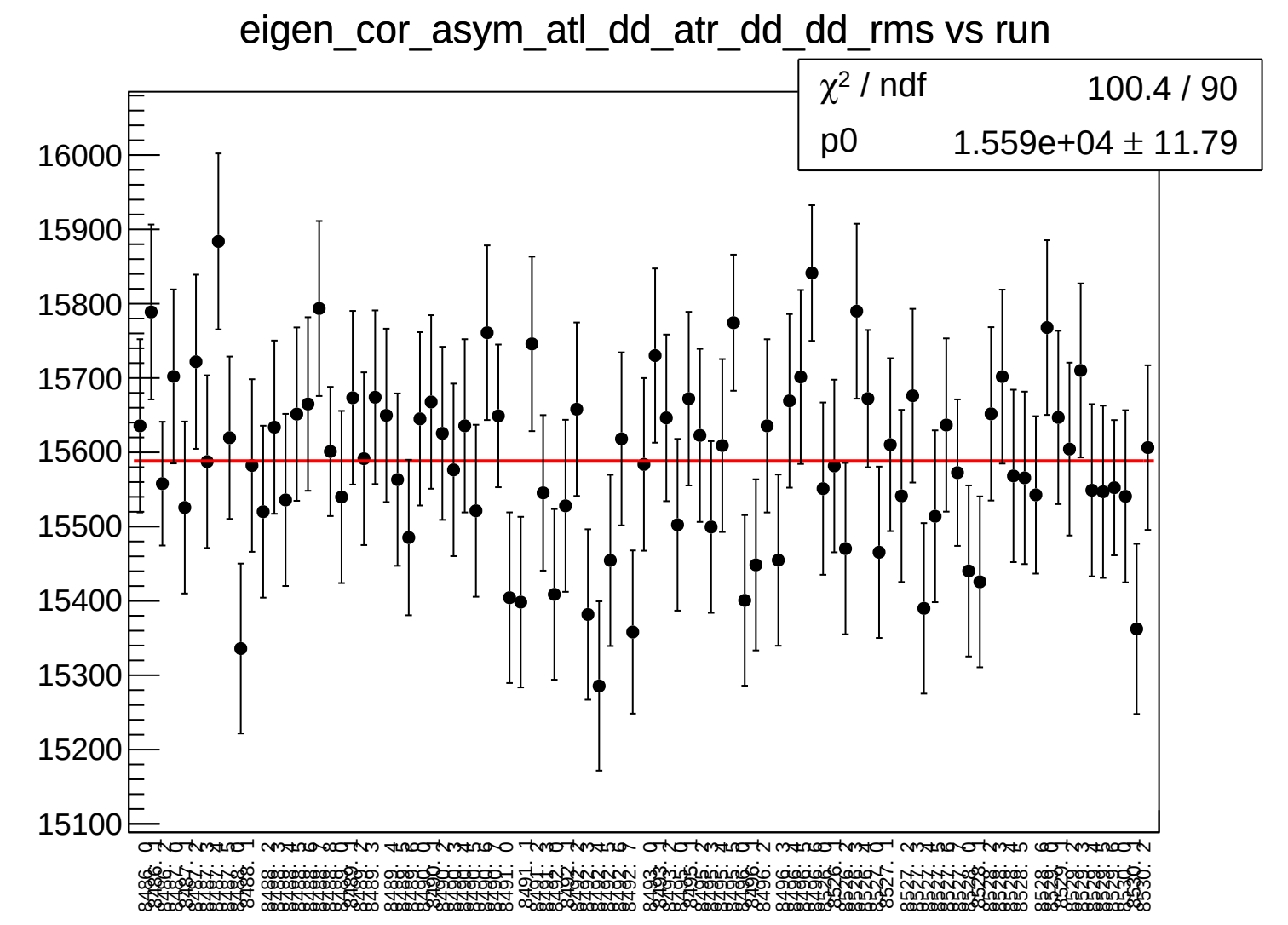

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 61.79 / 90
p0 1712 ± 575.1
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean −22.11
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

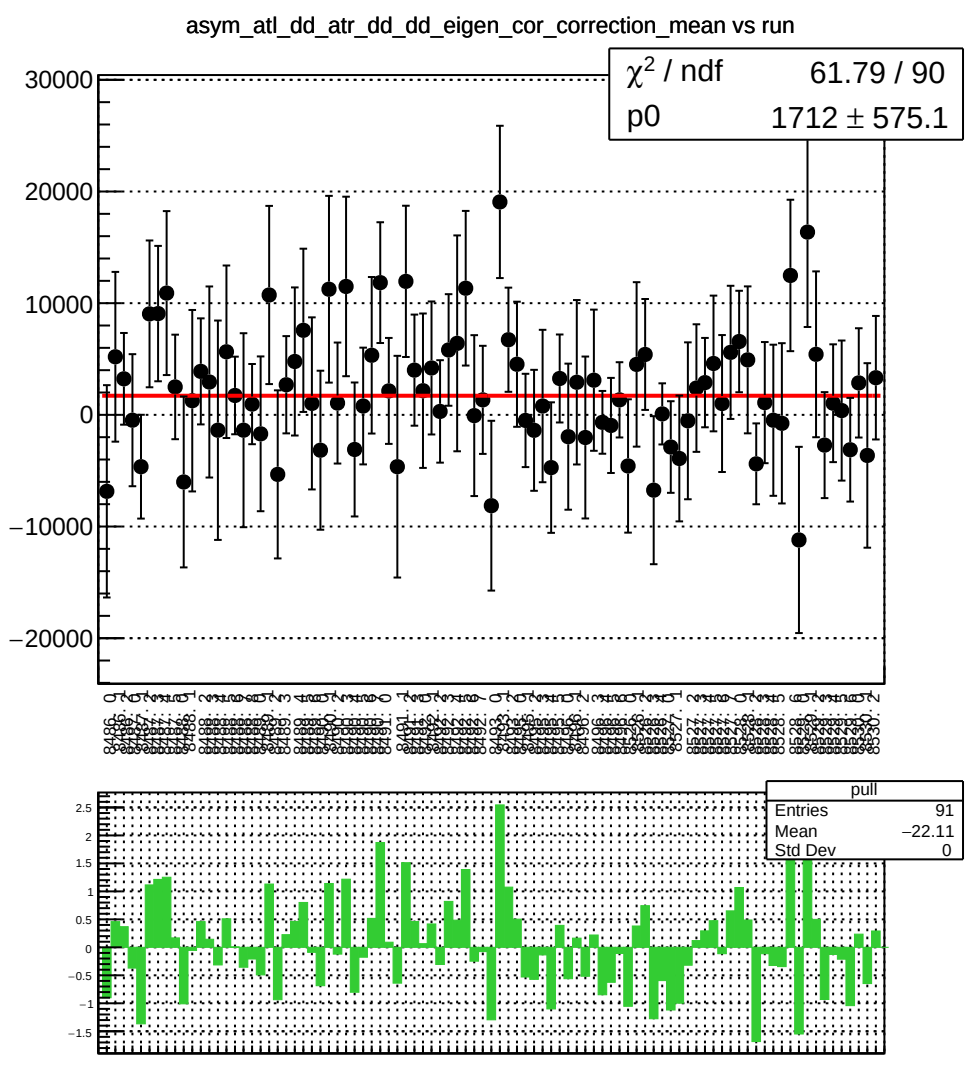

pull1D
Entries 91
Mean 0.04267
Std Dev 0.8229
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

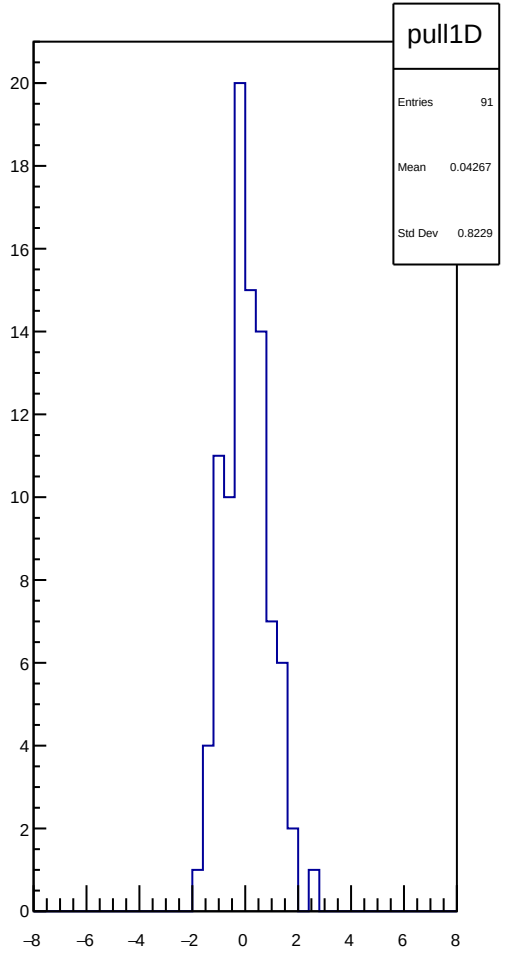

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.203e+05 / 90
p0 519 ± 0.4067
1000
900
800
700
600
500
400
300
200

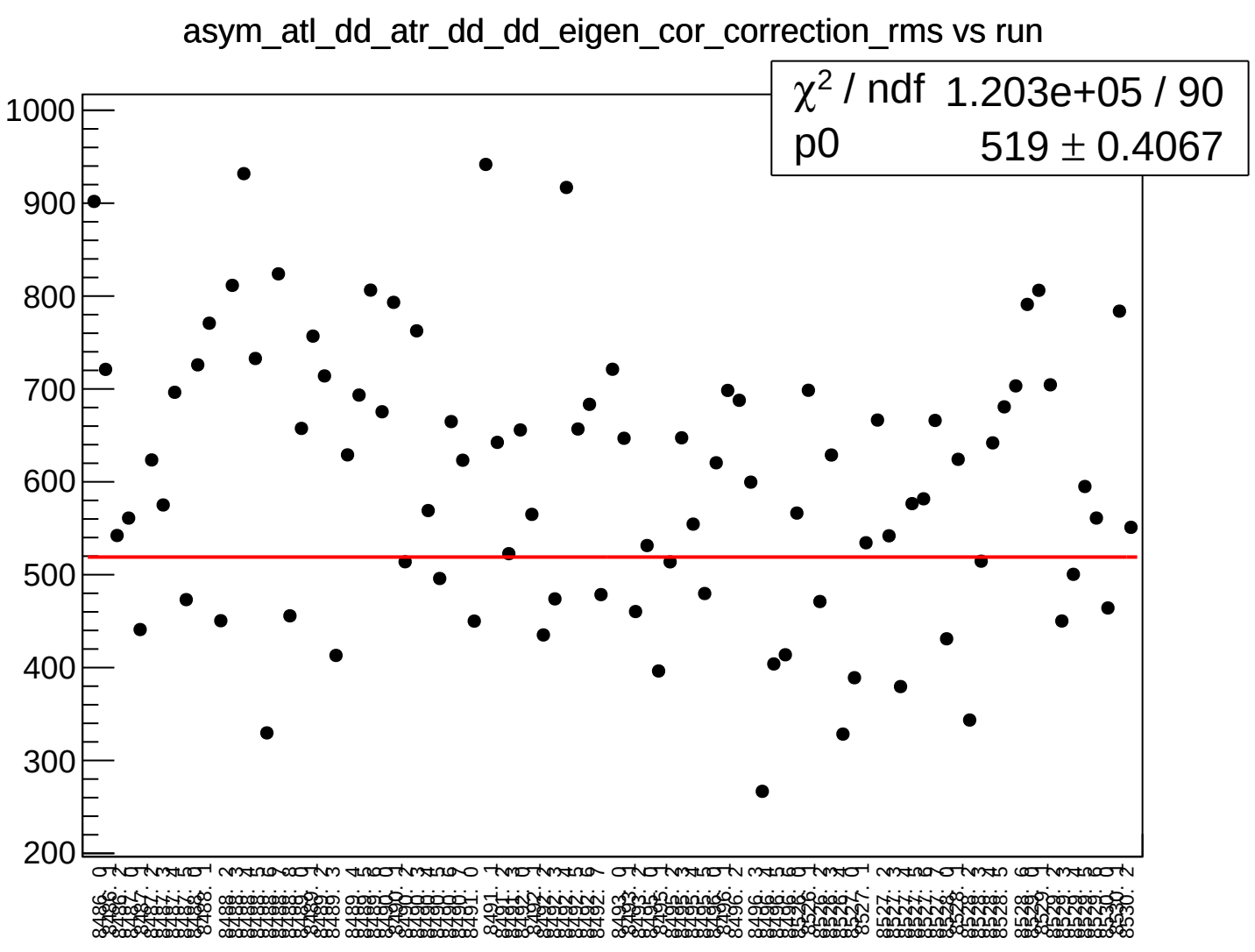

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ² / ndf 72 / 90
p0 7965 ± 1.667e+04
pull
Entries 91
Mean −3817
Std Dev 0

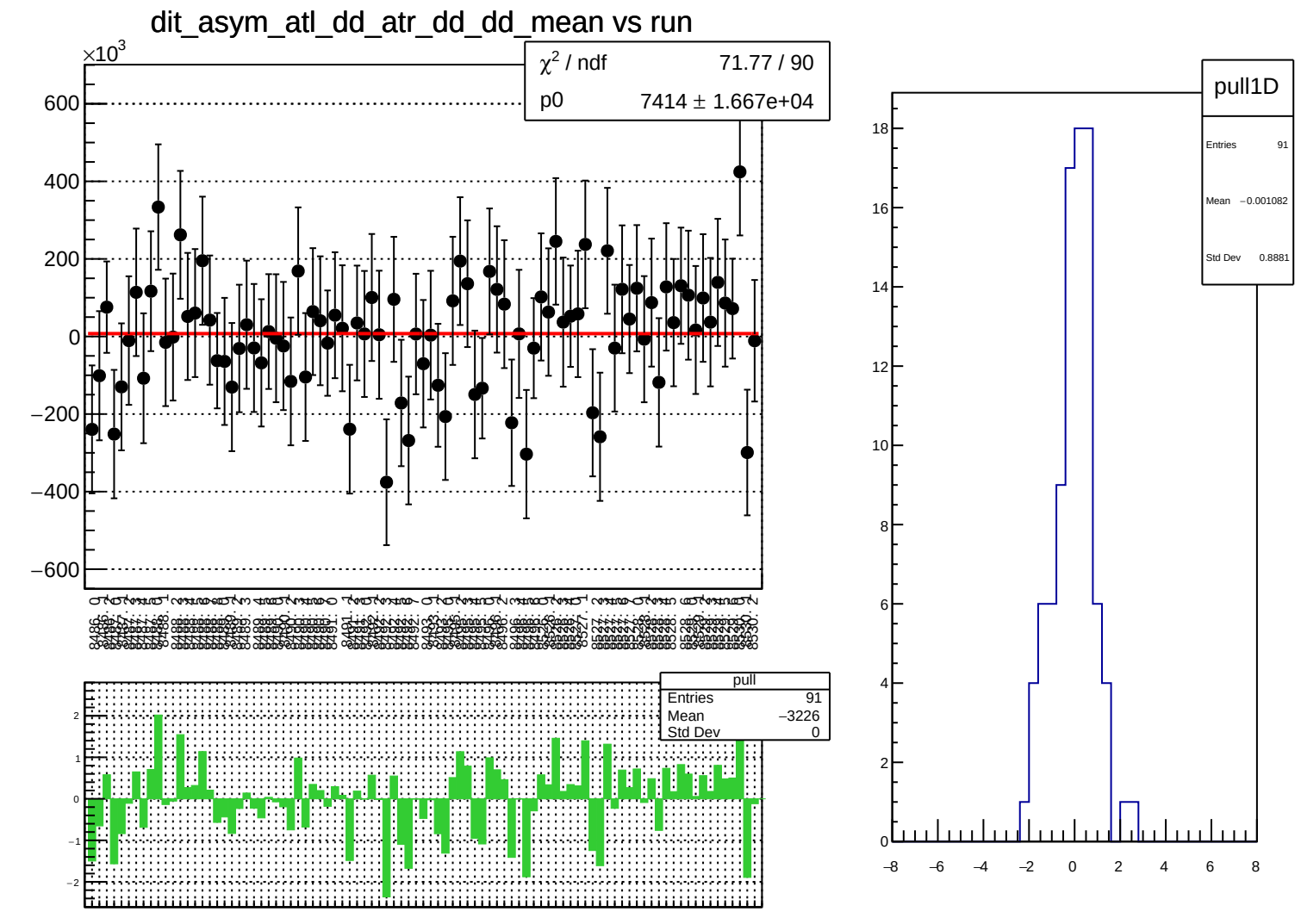

pull1D
Entries 91
Mean −0.0009112
Std Dev 0.8895


eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 100.4 / 90
p0 1.559e+04 ± 11.79
16000
15900
15800
15700
15600
15500
15400
15300
15200
15100

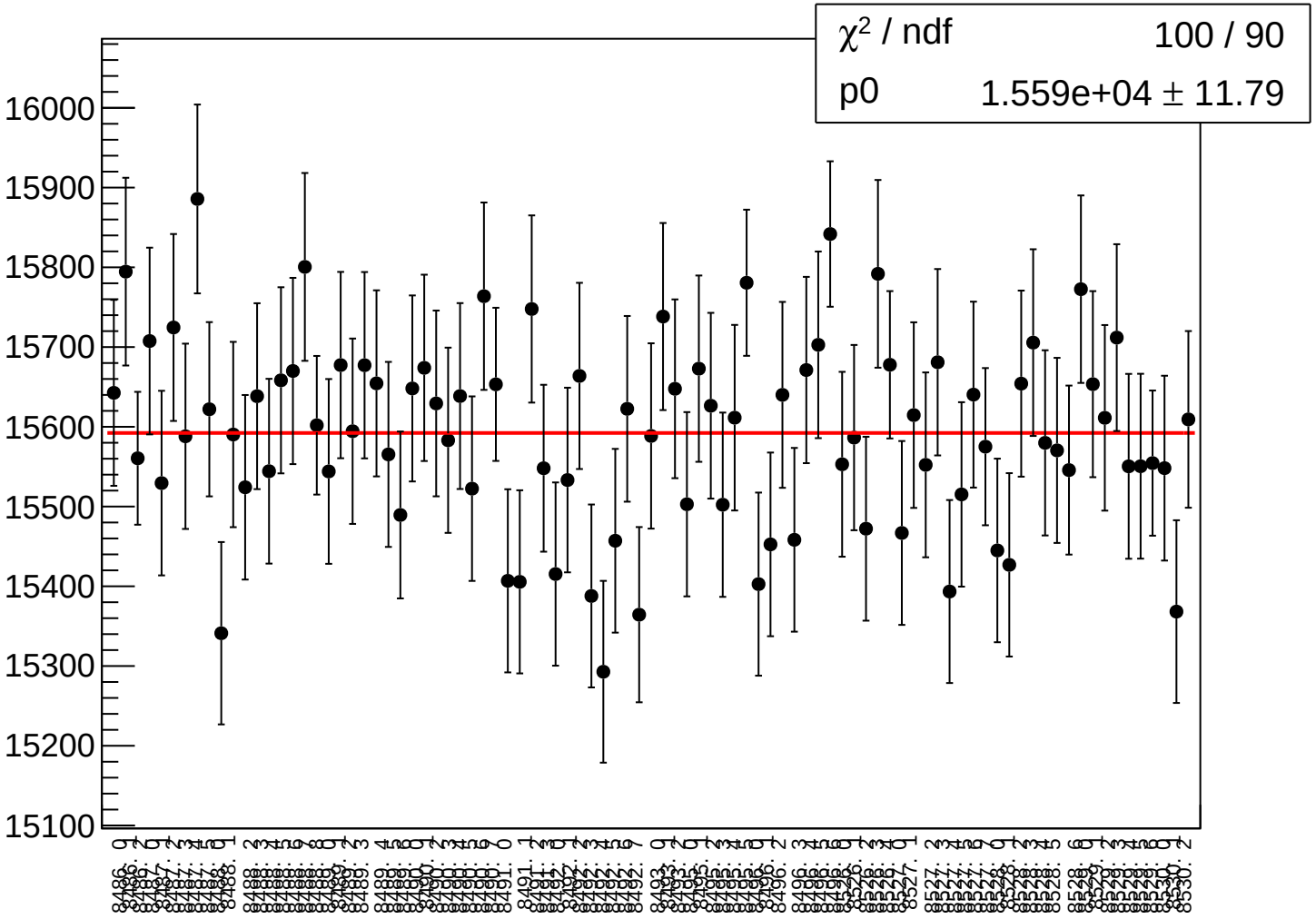

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 61.79 / 90
p0 1712 ± 575.1
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean −22.11
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

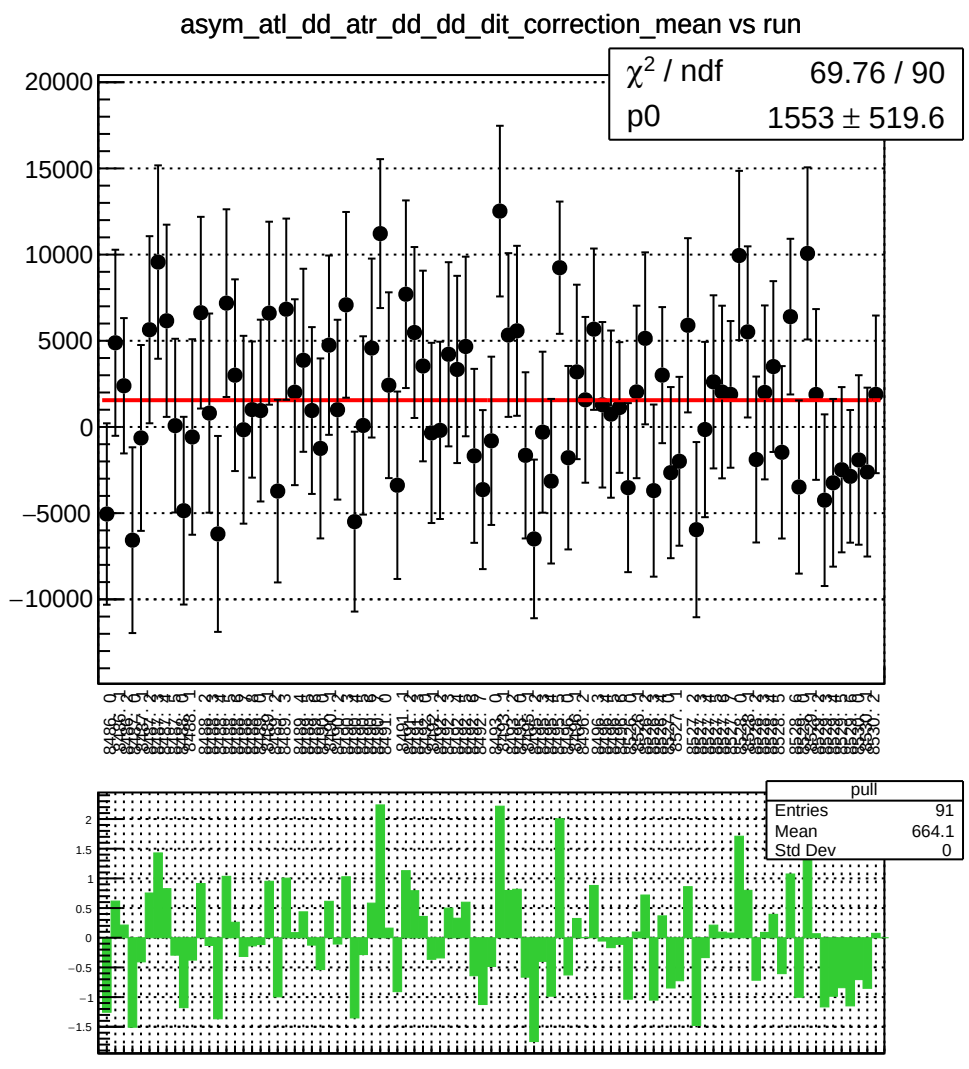

pull1D
Entries 91
Mean 0.04267
Std Dev 0.8229
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

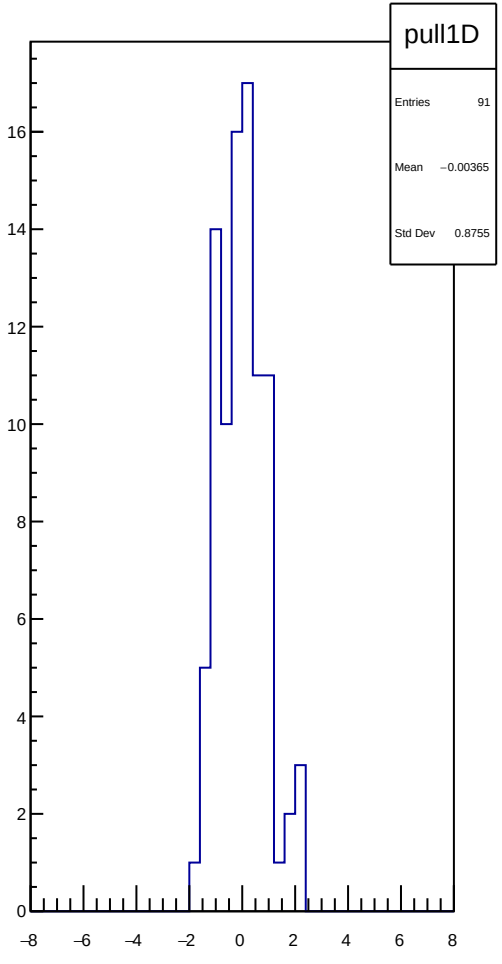

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.203e+05 / 90
p0 519 ± 0.4067
1000
900
800
700
600
500
400
300
200

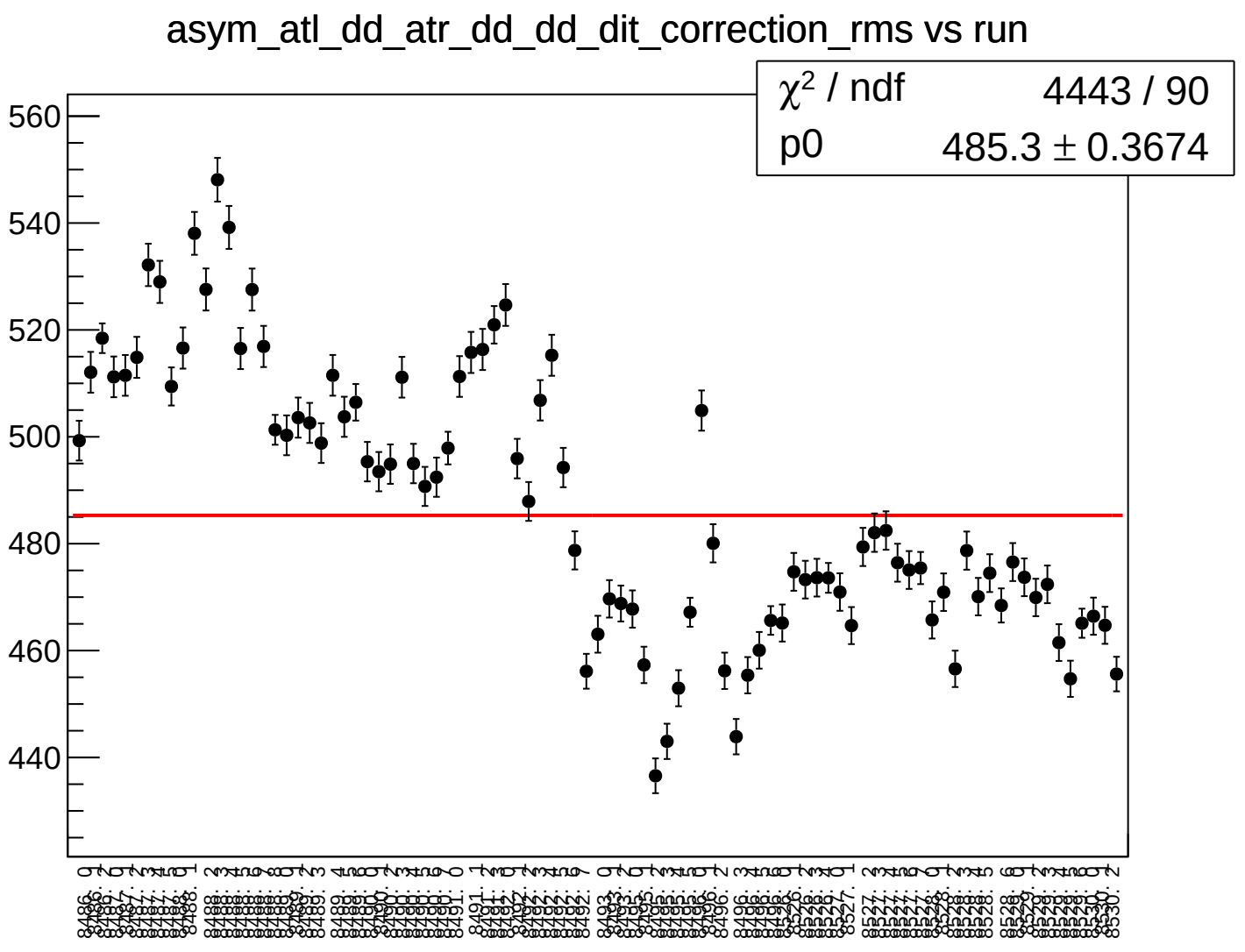

dit_asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ² / ndf 71.77 / 90
p0 7414 ± 1.667e+04
pull
Entries 91
Mean −3226
Std Dev 0
pull1D
Entries 91
Mean −0.001082
Std Dev 0.8881

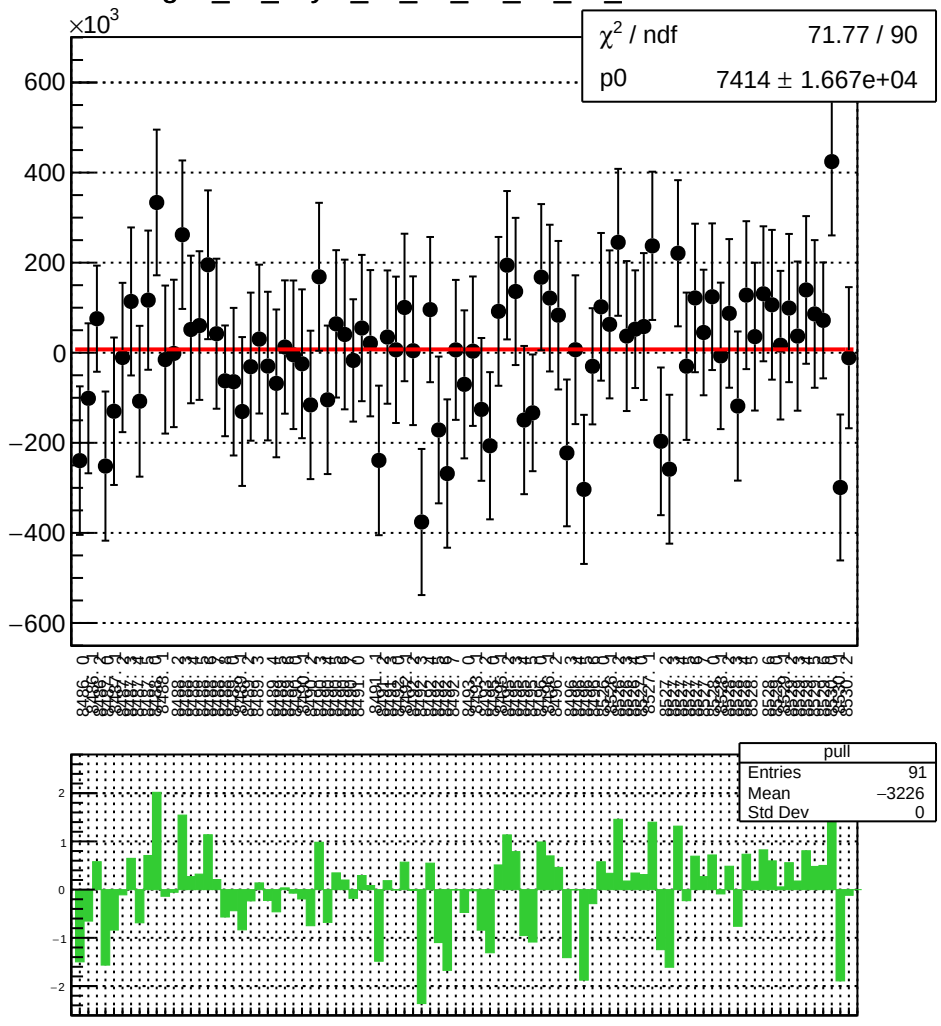
dit_asym_atl_dd_atr_dd_dd_rms vs run

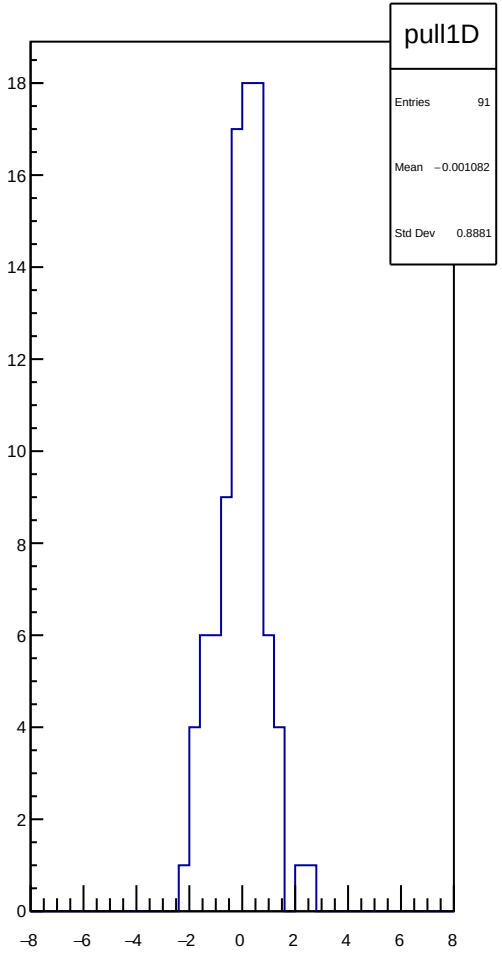


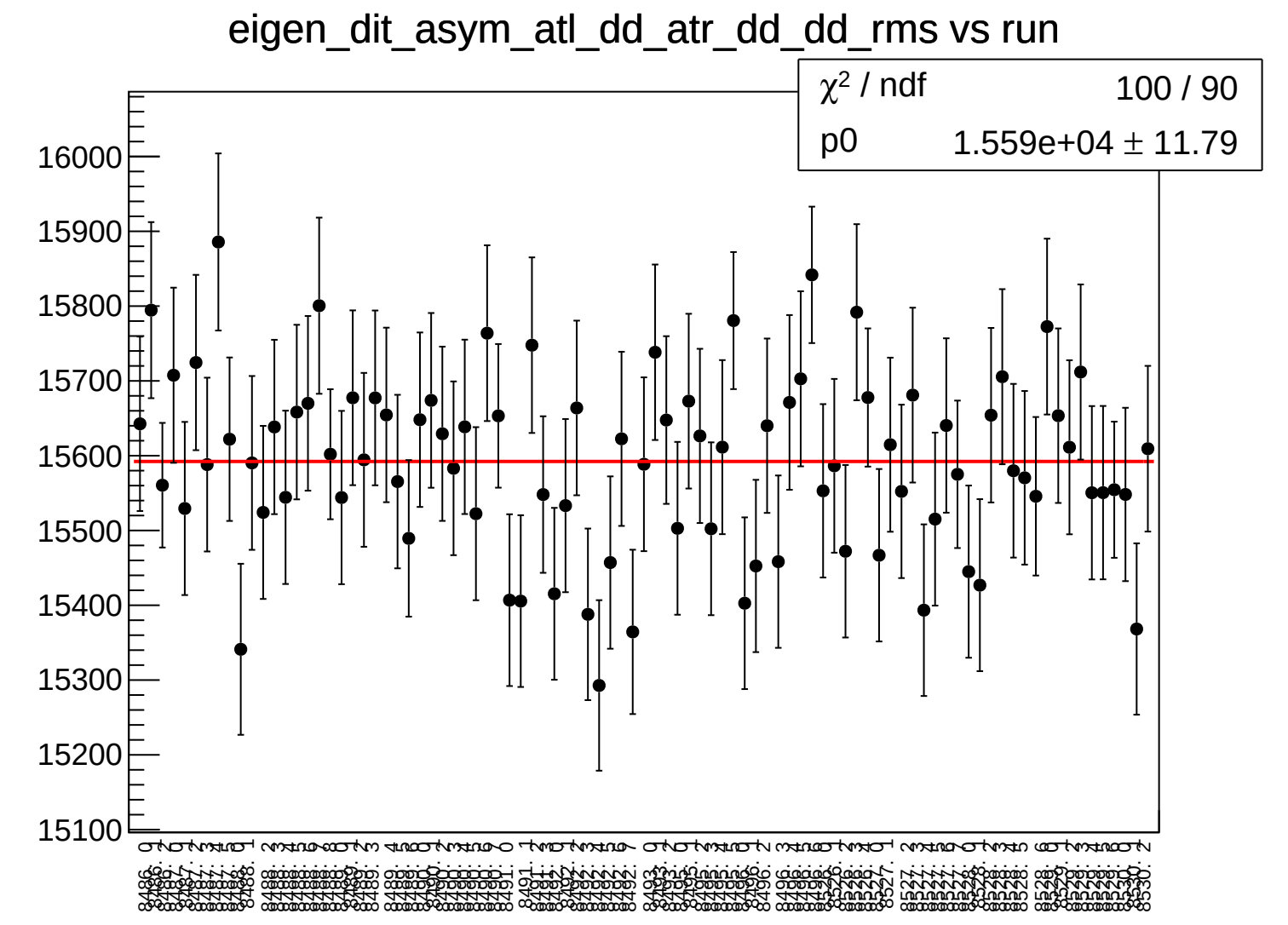

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 69.76 / 90
p0 1553 ± 519.6
pull
Entries 91
Mean 664.1
Std Dev 0

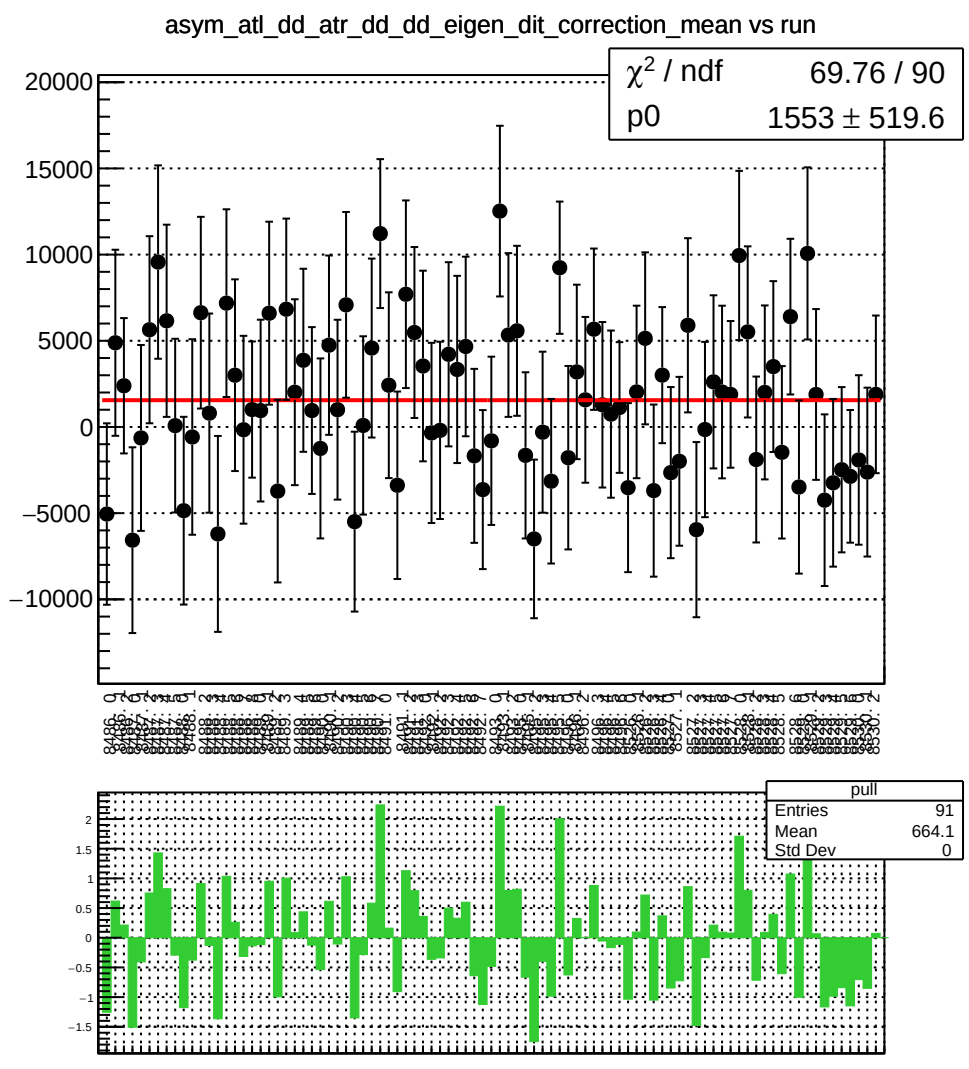

pull1D
Entries 91
Mean −0.00365
Std Dev 0.8755

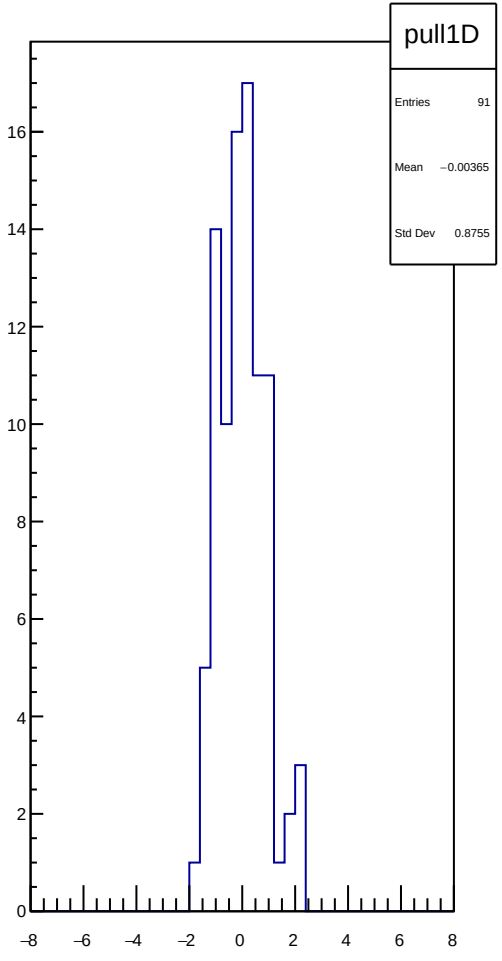

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 4443 / 90
p0 485.3 ± 0.3674
560
540
520
500
480
460
440

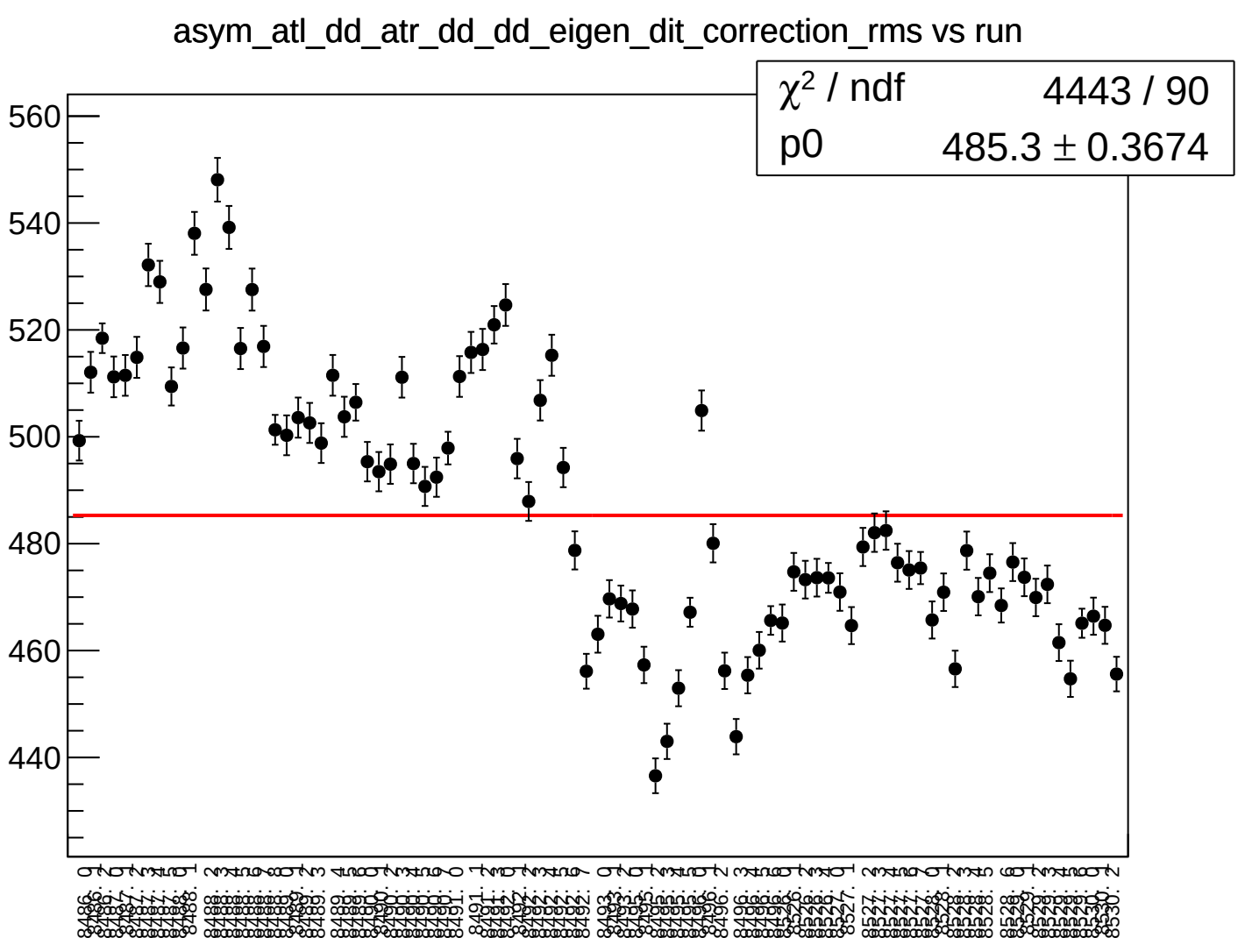

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ² / ndf 71.77 / 90
p0 7414 ± 1.667e+04
pull
Entries 91
Mean −3226
Std Dev 0

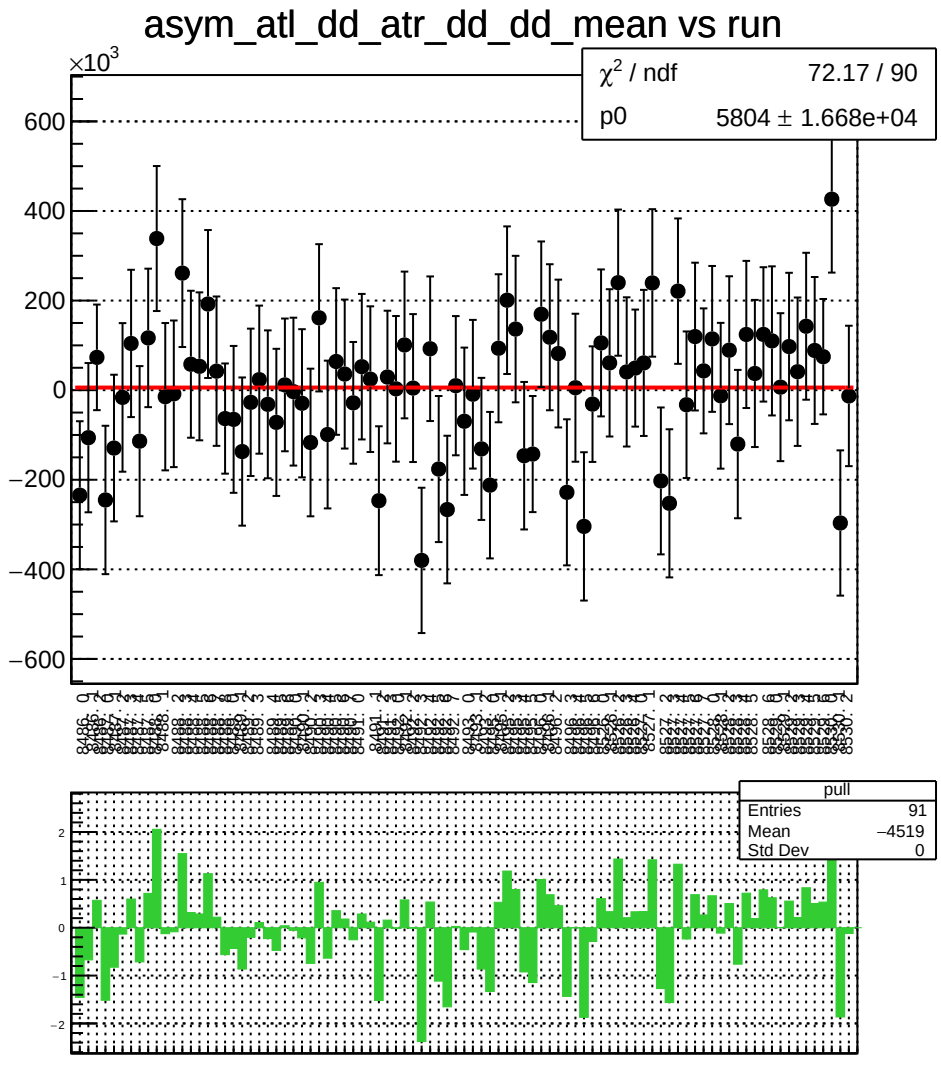

pull1D
Entries 91
Mean −0.001082
Std Dev 0.8881

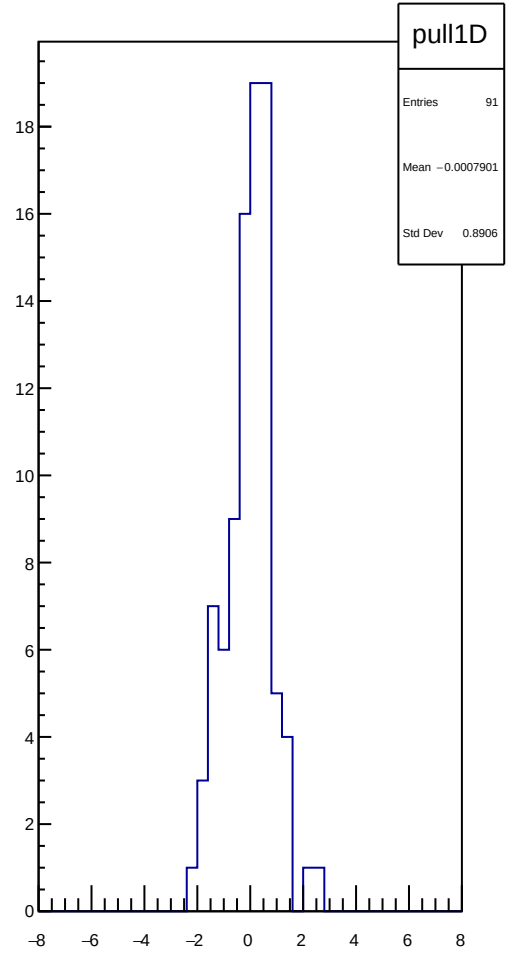

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 100 / 90
p0 1.559e+04 ± 11.79
16000
15900
15800
15700
15600
15500
15400
15300
15200
15100

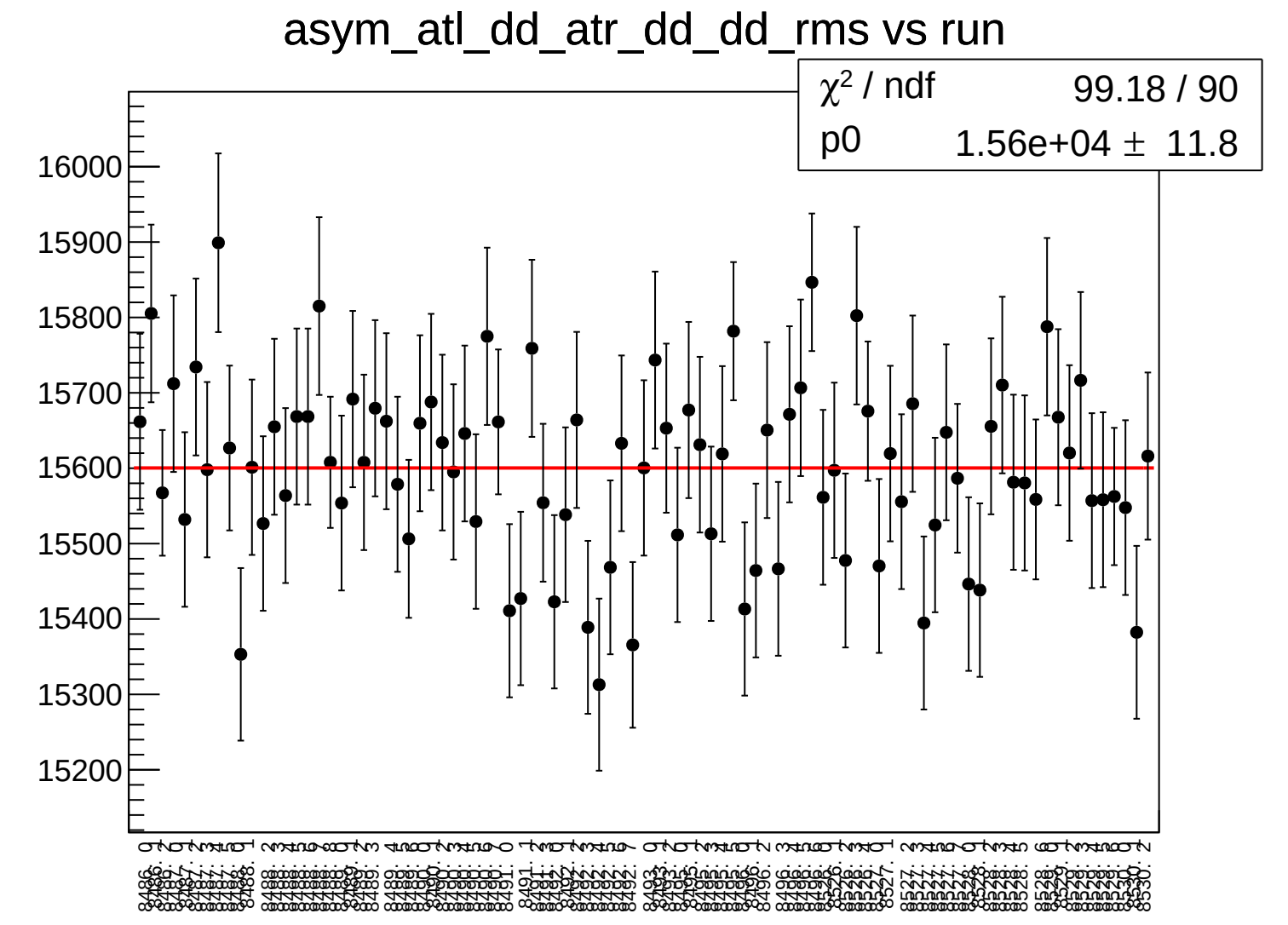

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 69.76 / 90
p0 1553 ± 519.6
pull
Entries 91
Mean 664.1
Std Dev 0

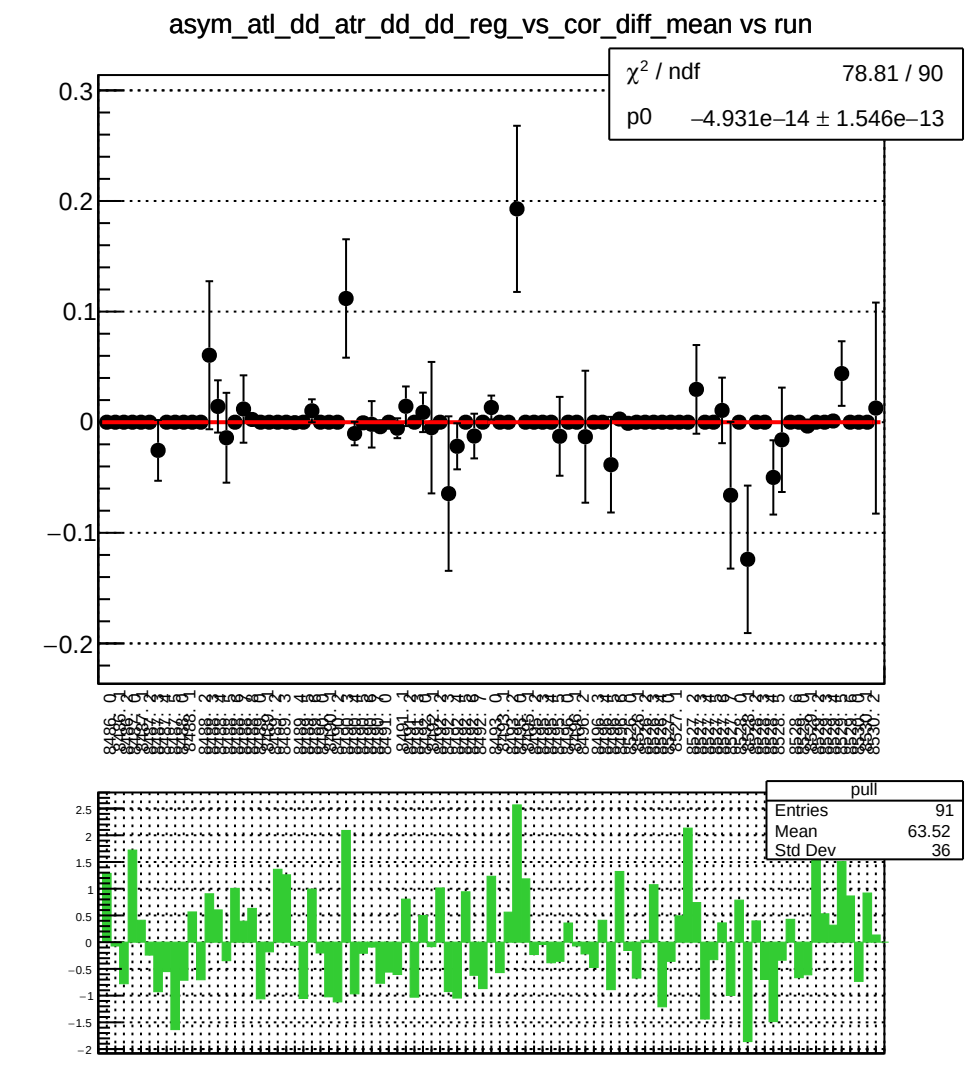

pull1D
Entries 91
Mean −0.00365
Std Dev 0.8755

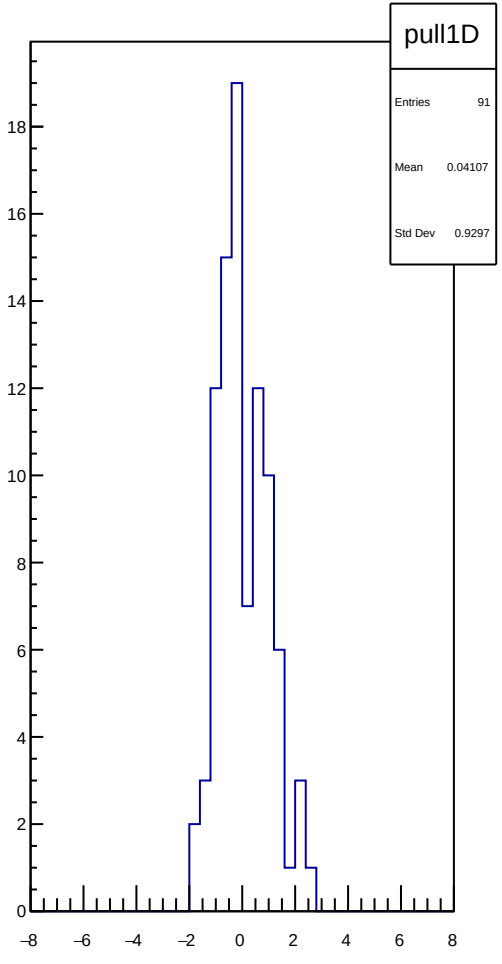

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 4443 / 90
p0 485.3 ± 0.3674
560
540
520
500
480
460
440

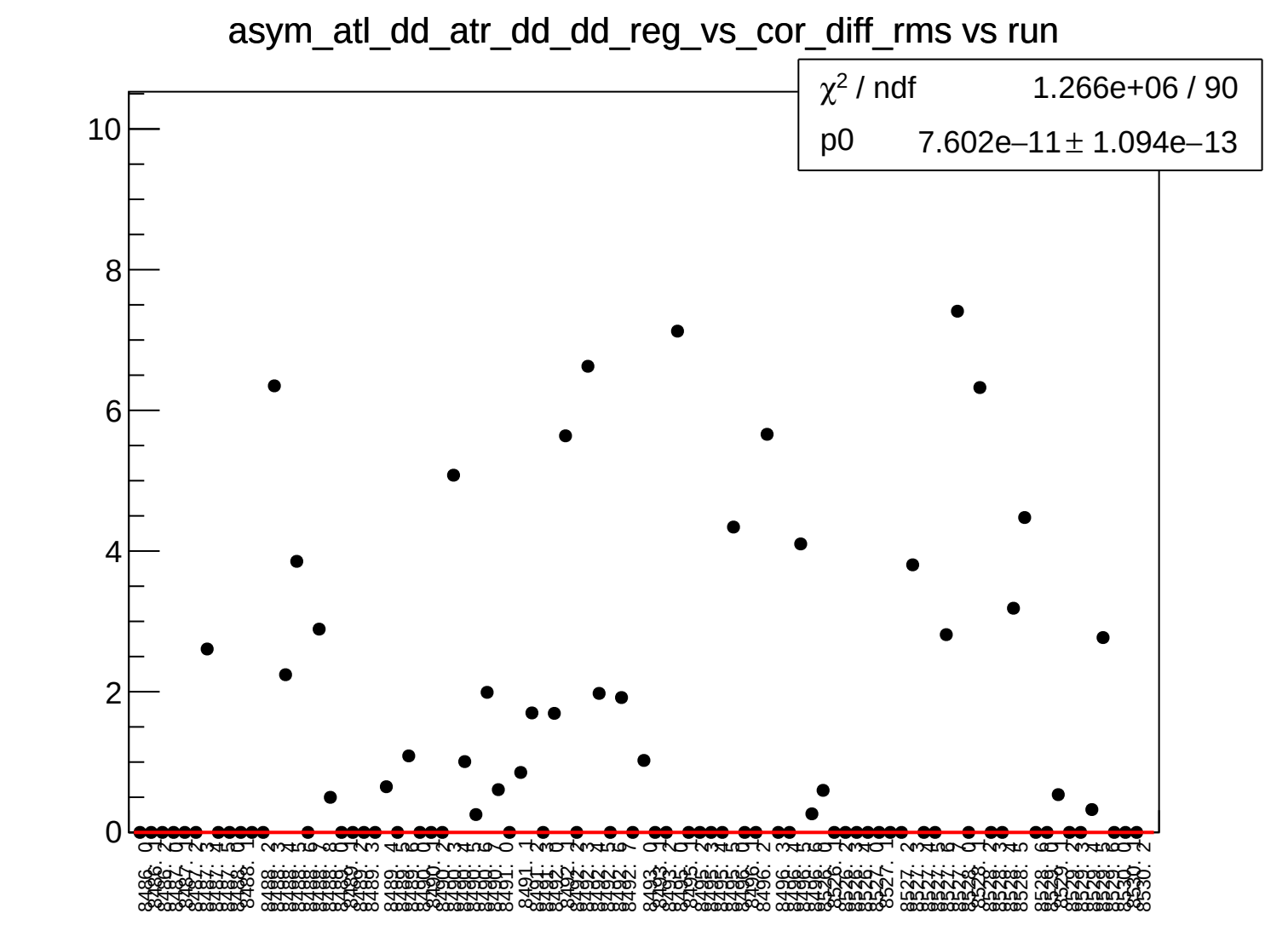

asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ² / ndf 72.17 / 90
p0 5804 ± 1.668e+04
pull
Entries 91
Mean −4519
Std Dev 0

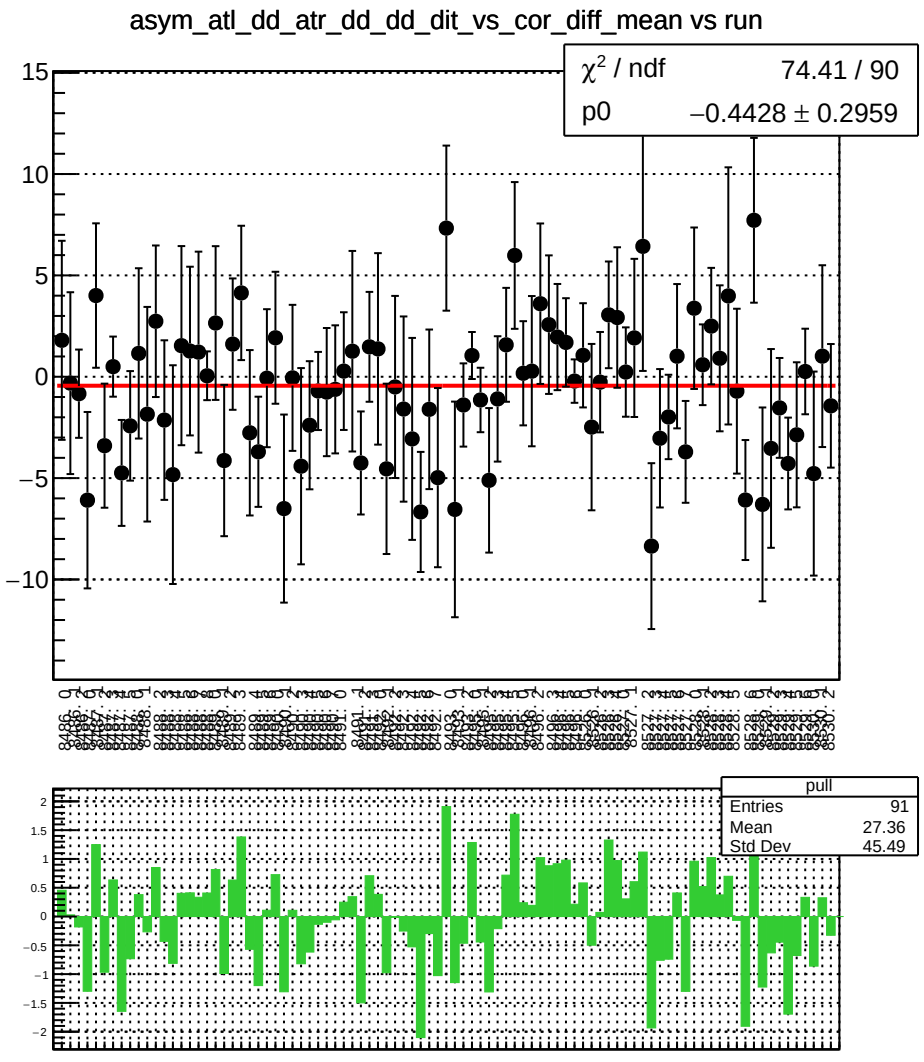

pull1D
Entries 91
Mean −0.0007901
Std Dev 0.8906

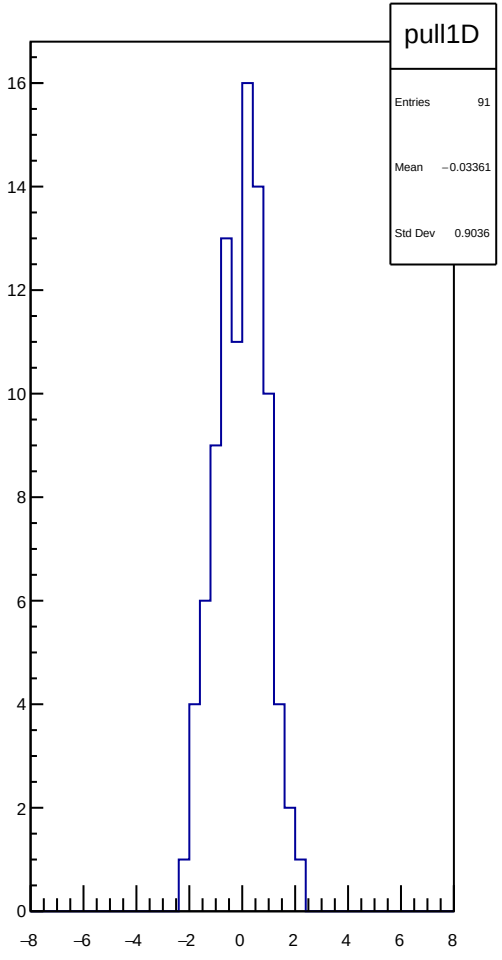

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 99.18 / 90
p0 1.56e+04 ± 11.8
16000
15900
15800
15700
15600
15500
15400
15300
15200

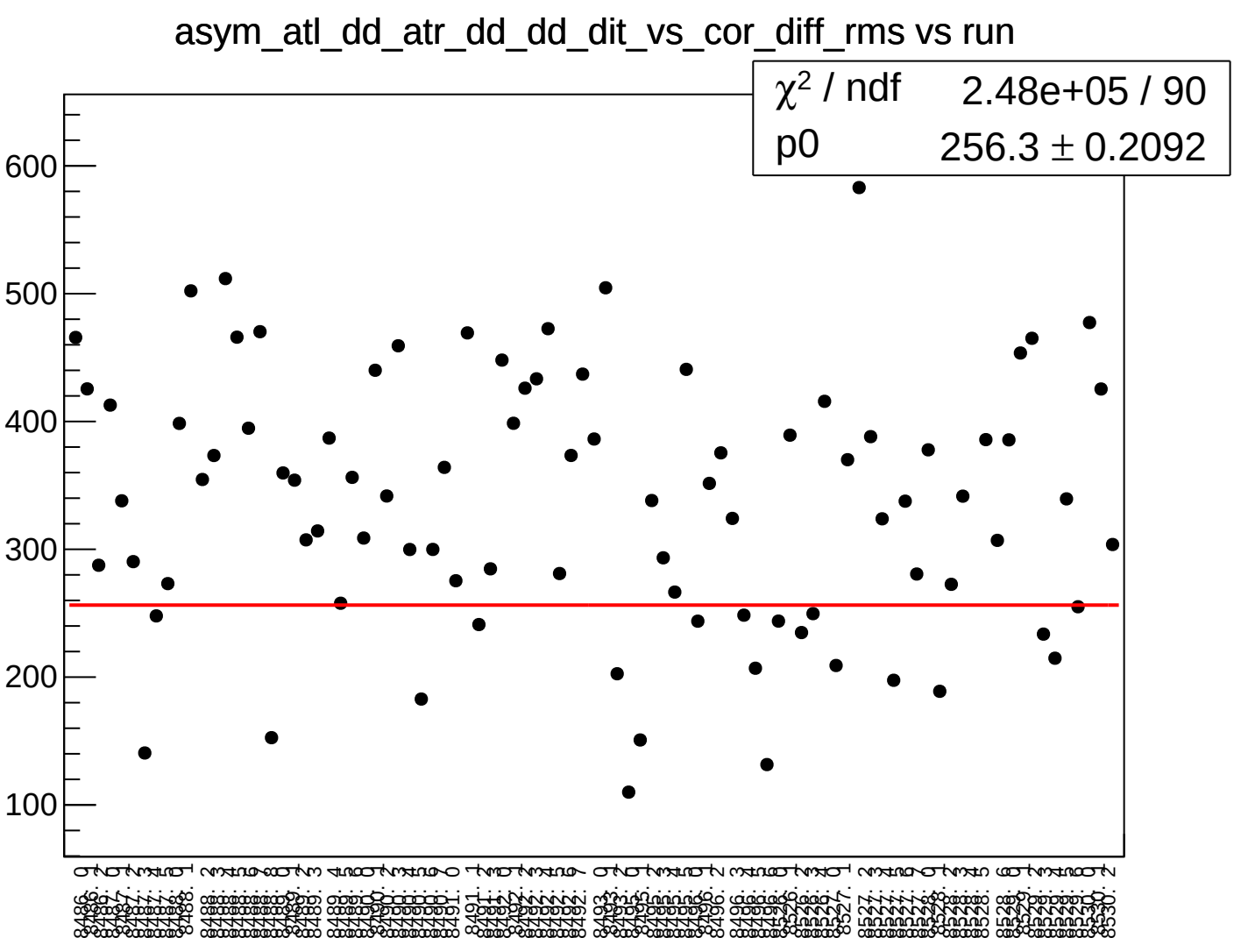

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 78.81 / 90
p0 −4.931e−14 ± 1.546e−13
pull
Entries 91
Mean 63.52
Std Dev 36

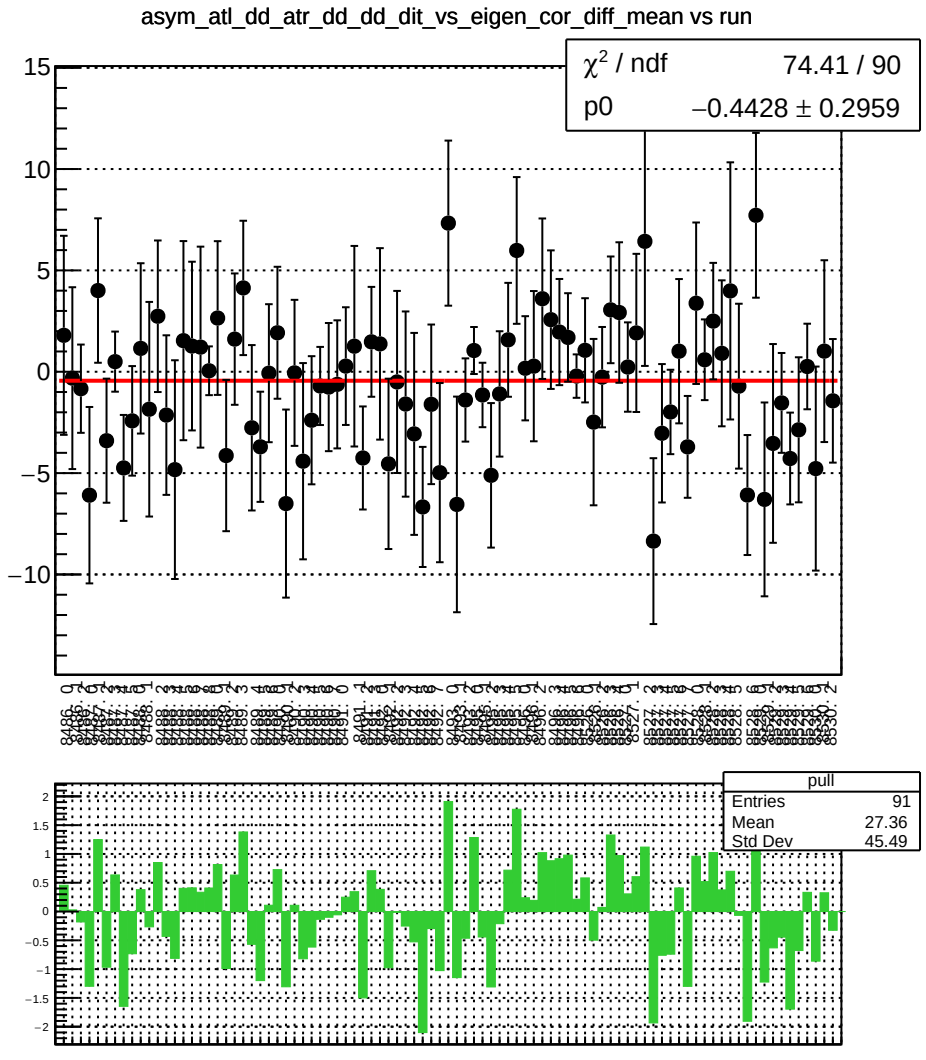

pull1D
Entries 91
Mean 0.04107
Std Dev 0.9297

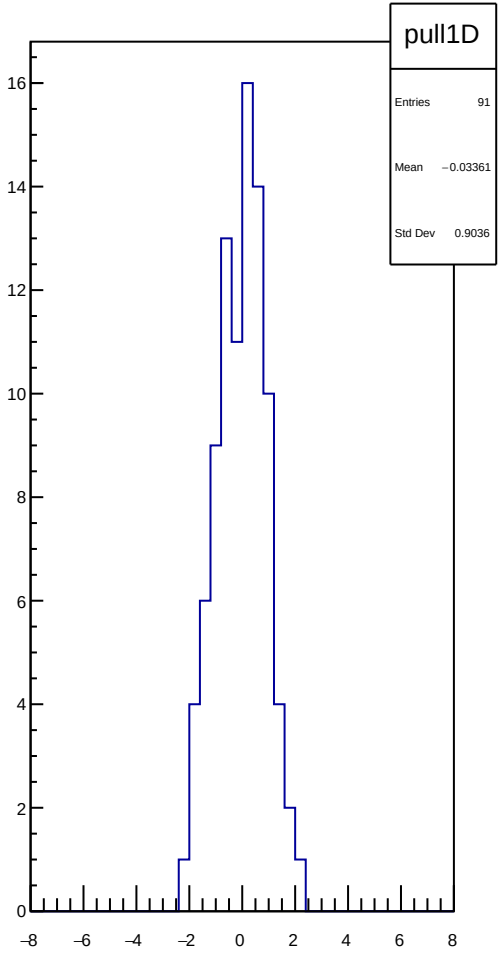

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.266e+06 / 90
p0 7.602e−11 ± 1.094e−13
10
8
6
4
2
0

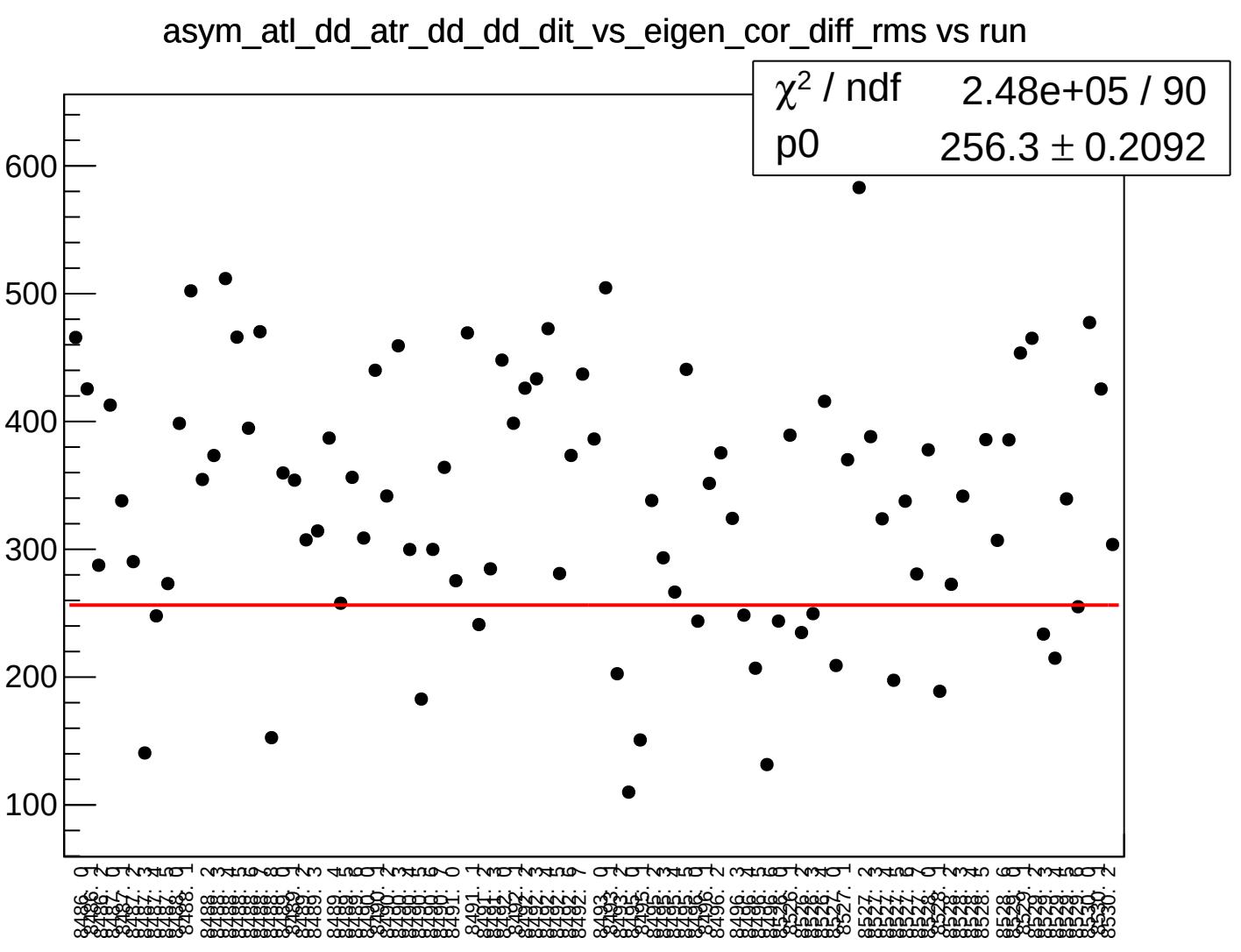

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 74.41 / 90
p0 −0.4428 ± 0.2959
pull
Entries 91
Mean 27.36
Std Dev 45.49

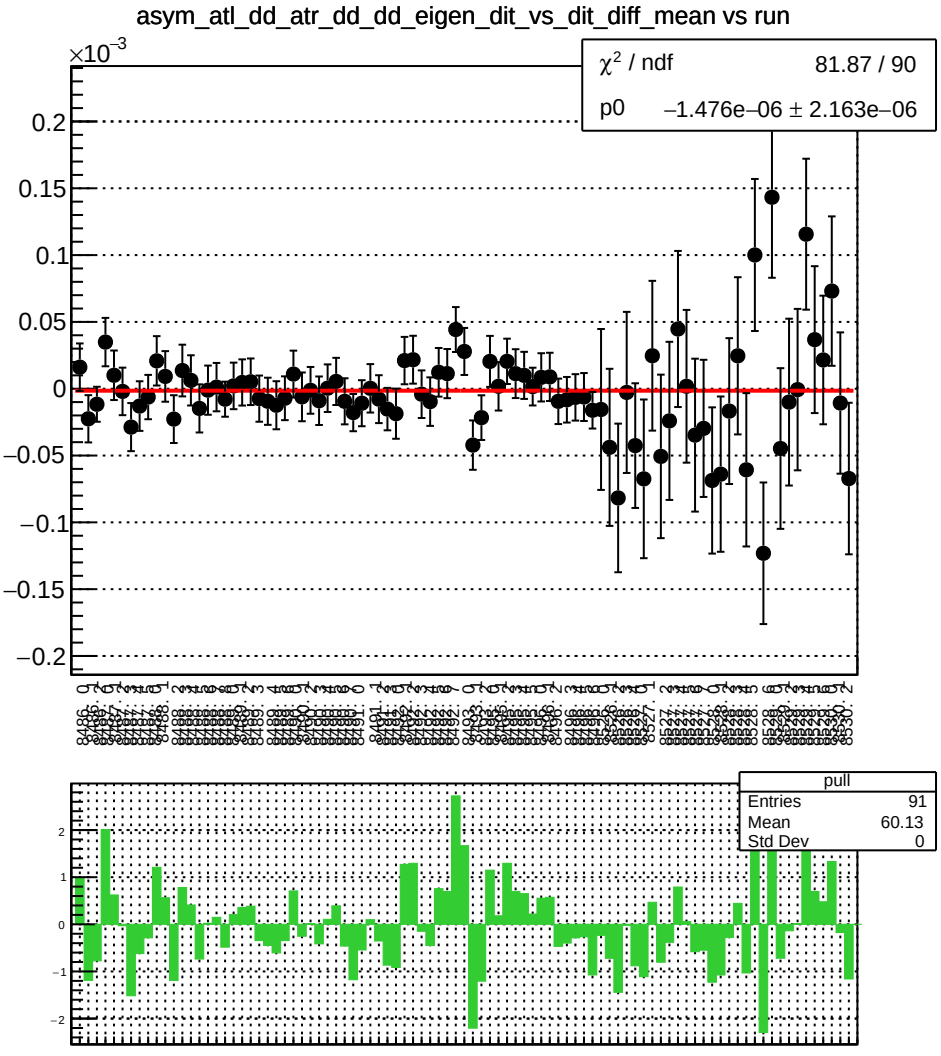

pull1D
Entries 91
Mean −0.03361
Std Dev 0.9036

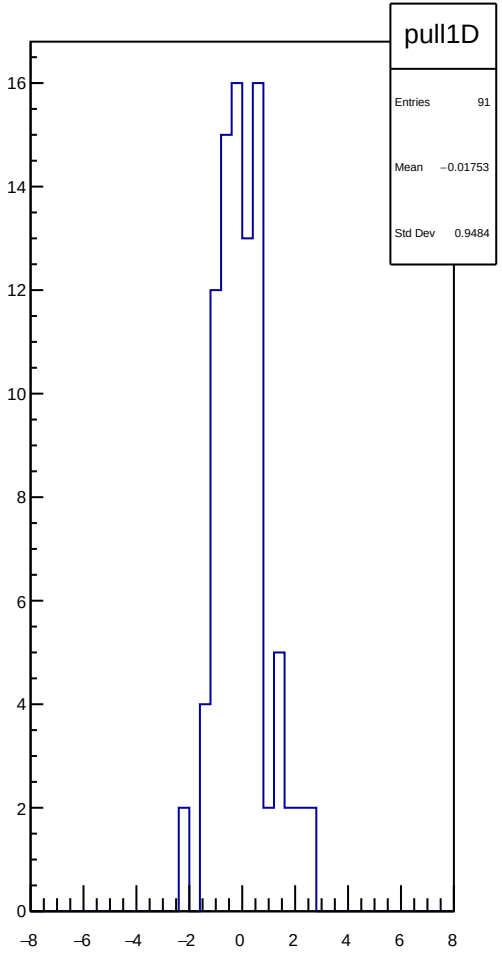

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.48e+05 / 90
p0 256.3 ± 0.2092
600
500
400
300
200
100

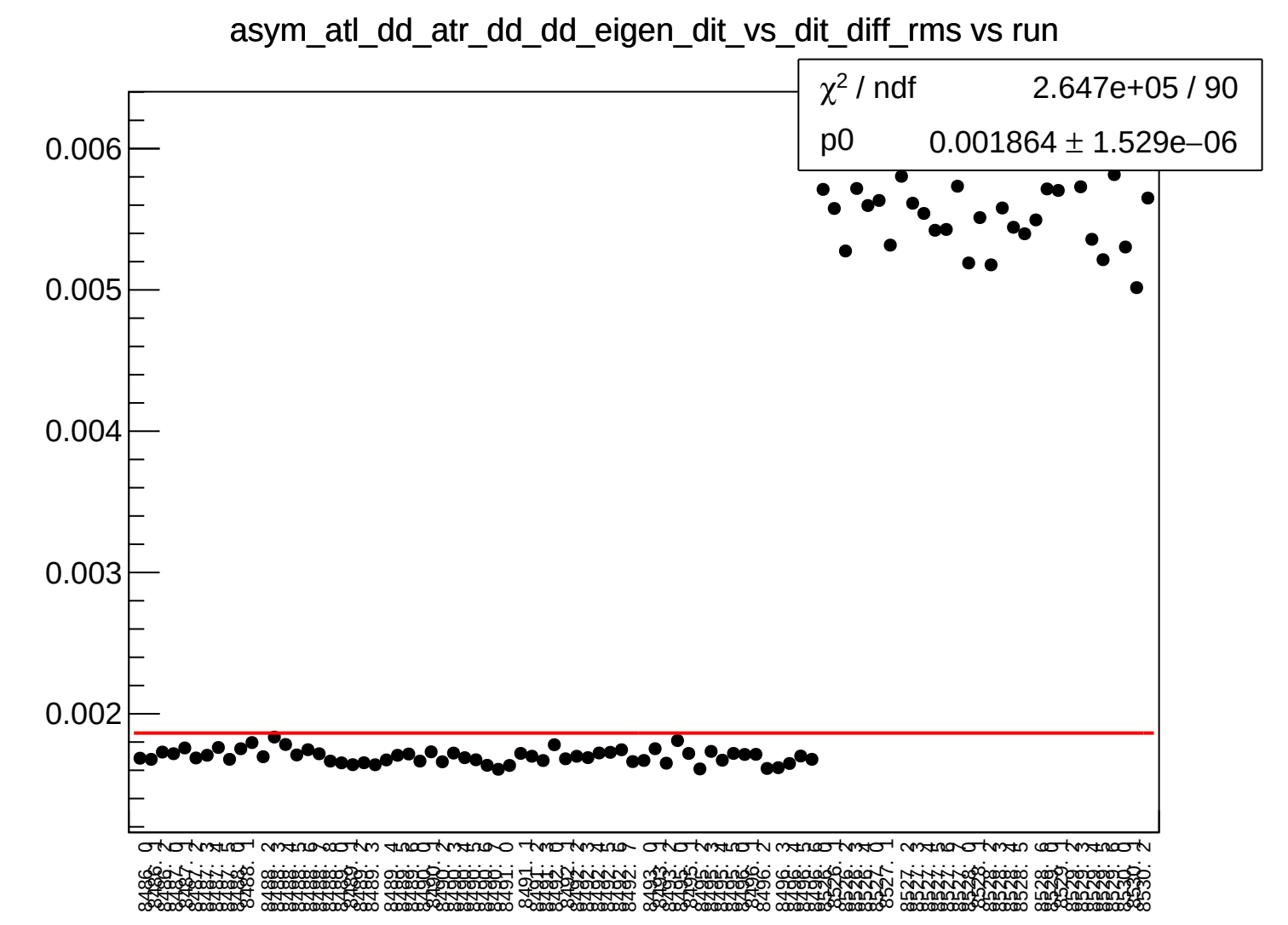

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.41 / 90
p0 −0.4428 ± 0.2959
pull
Entries 91
Mean 27.36
Std Dev 45.49

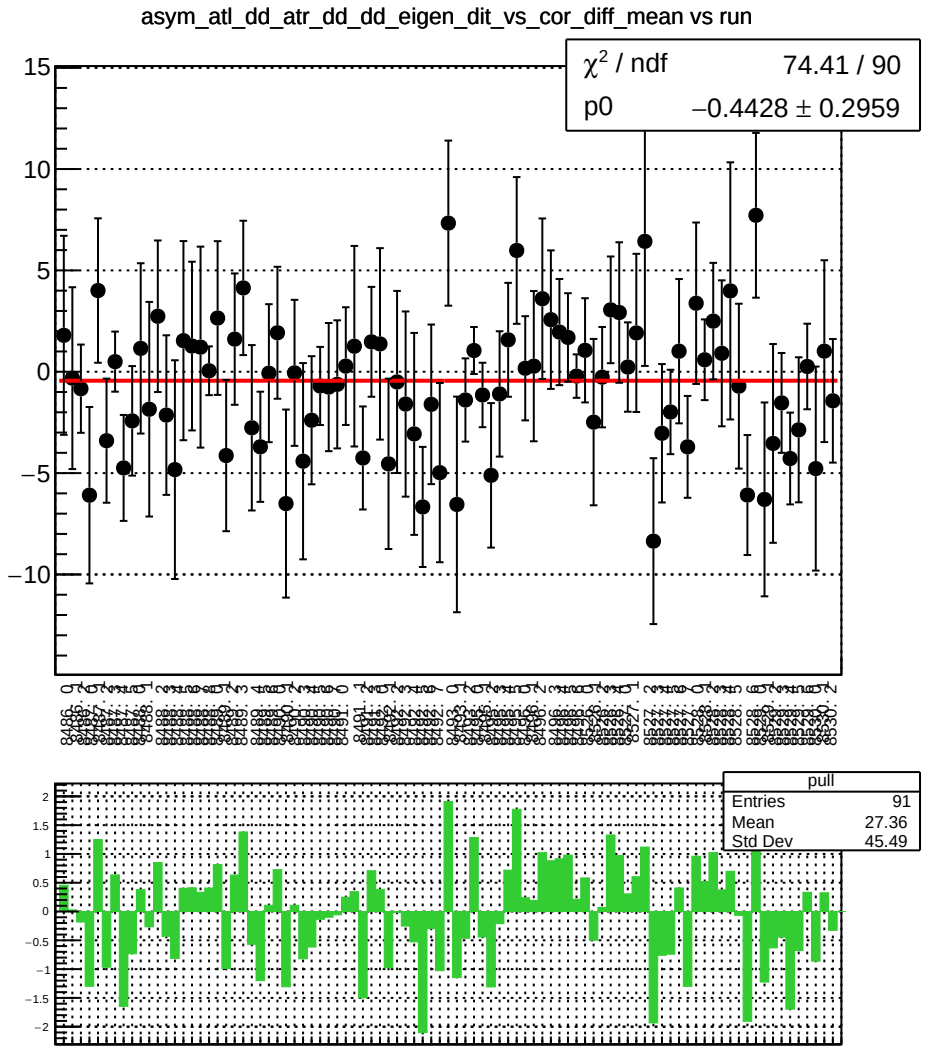

pull1D
Entries 91
Mean −0.03361
Std Dev 0.9036

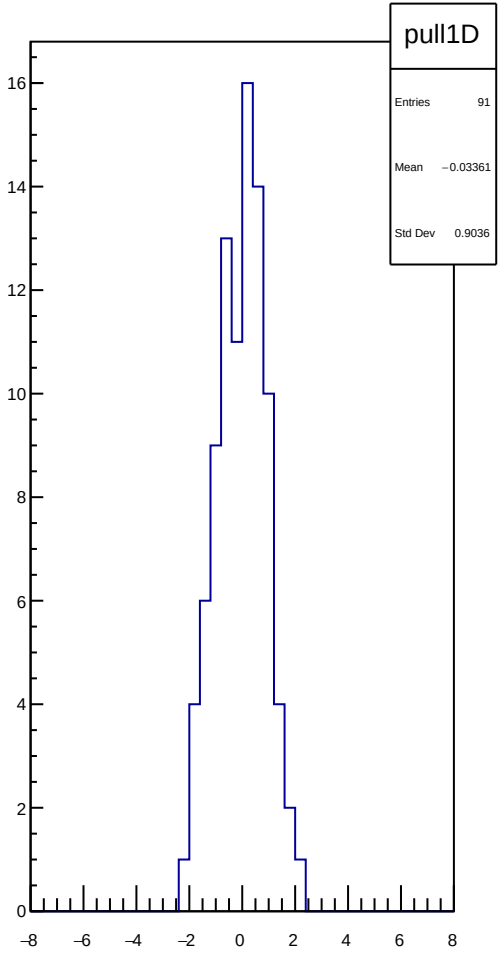

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.48e+05 / 90
p0 256.3 ± 0.2092
600
500
400
300
200
100

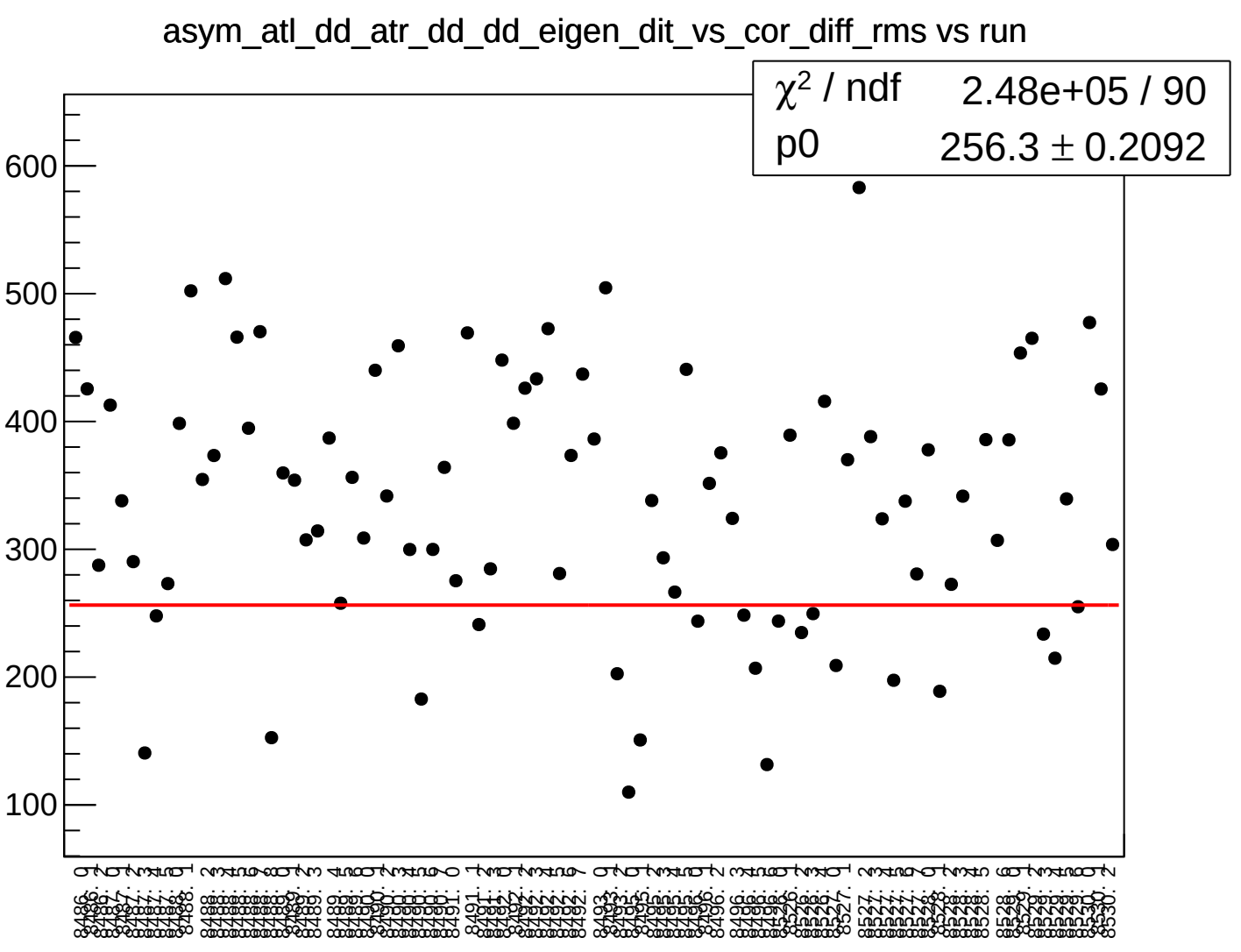

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.87 / 90
p0 −1.476e−06 ± 2.163e−06
pull
Entries 91
Mean 60.13
Std Dev 0

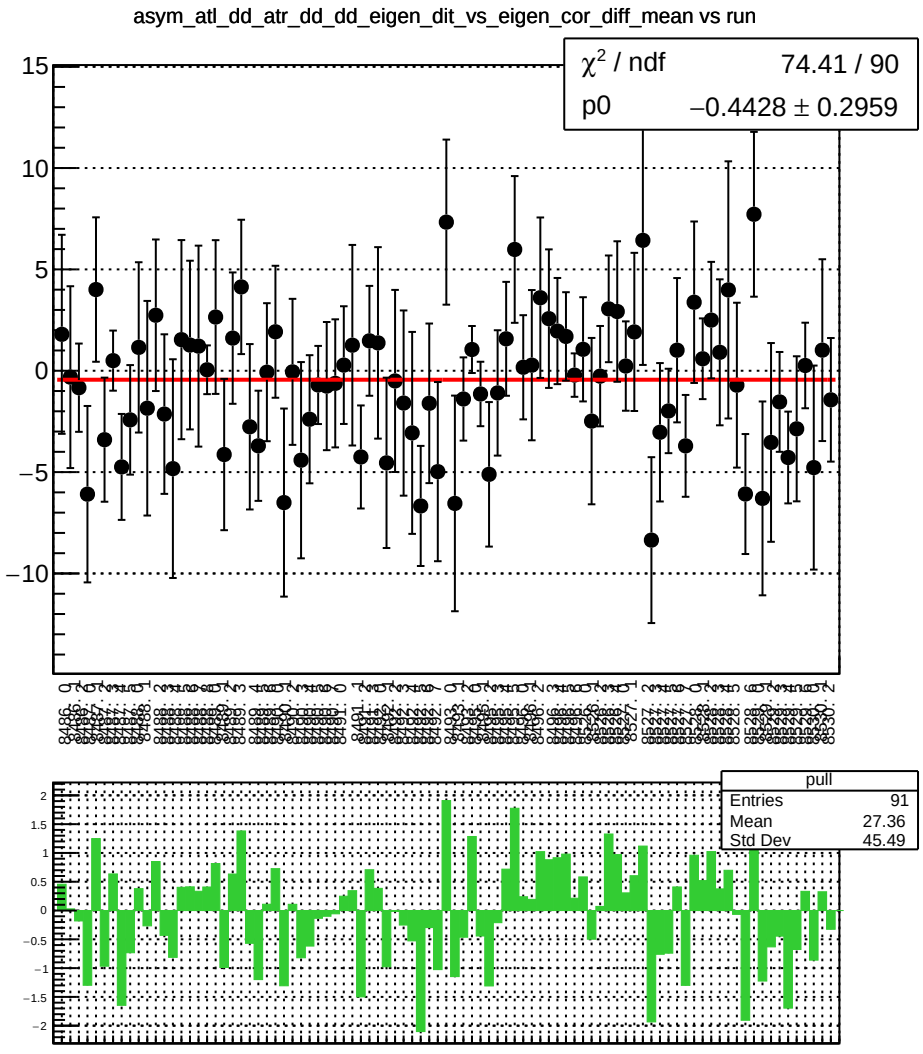

pull1D
Entries 91
Mean −0.01753
Std Dev 0.9484

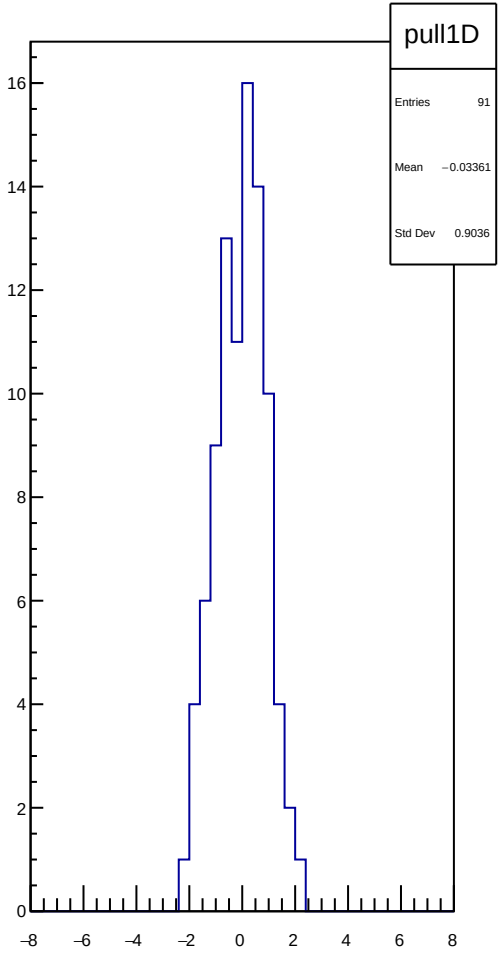

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.647e+05 / 90
p0 0.001864 ± 1.529e−06
0.006
0.005
0.004
0.003
0.002

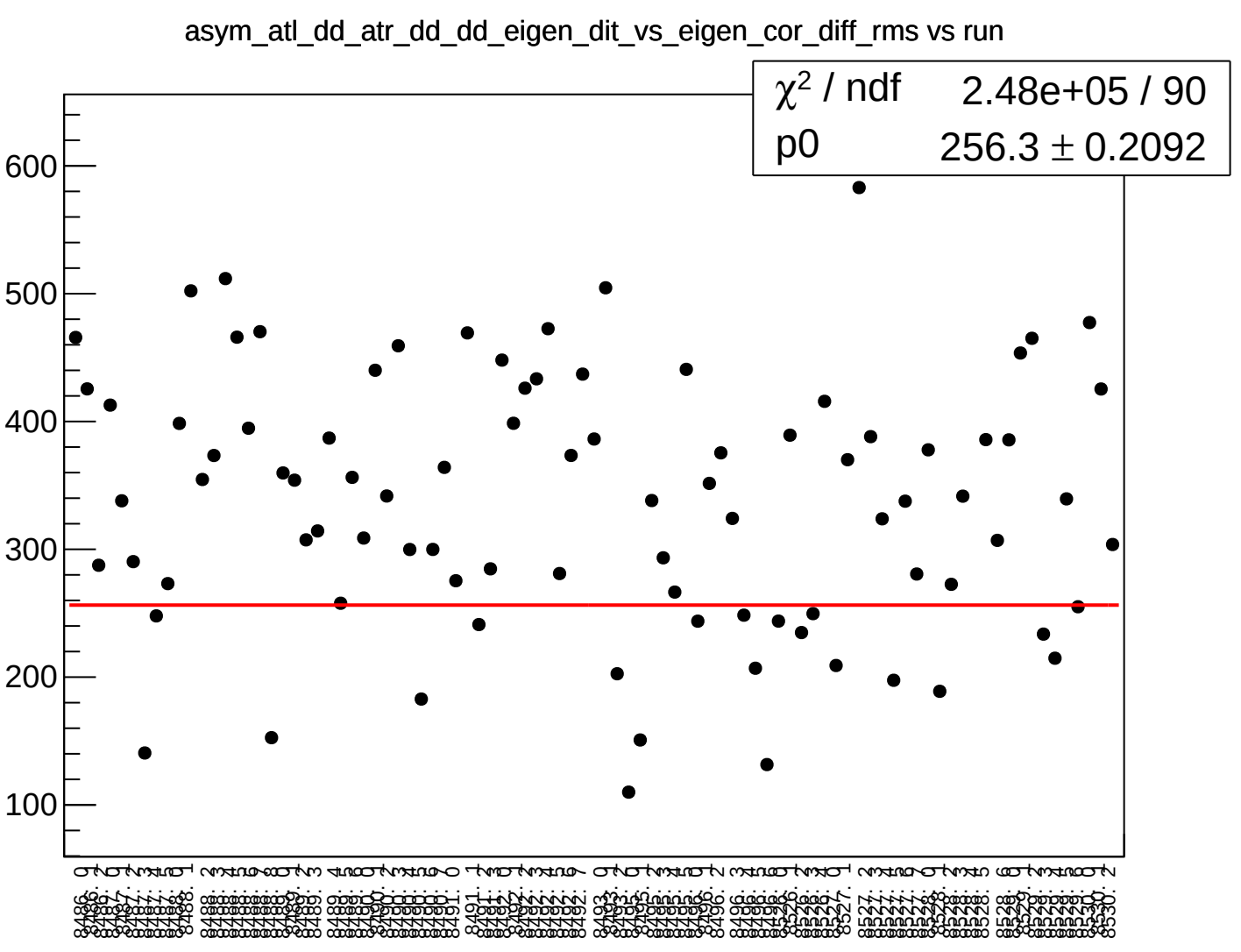

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.41 / 90
p0 −0.4428 ± 0.2959
pull
Entries 91
Mean 27.36
Std Dev 45.49

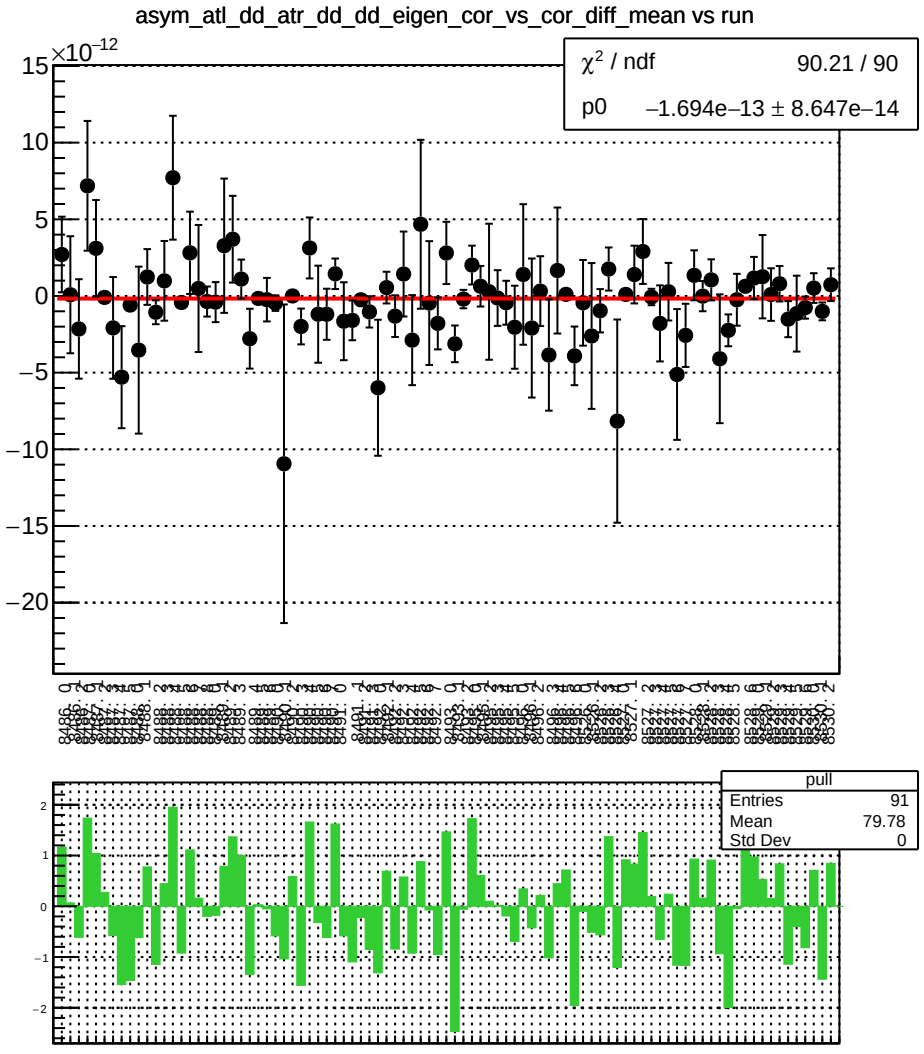

pull1D
Entries 91
Mean −0.03361
Std Dev 0.9036

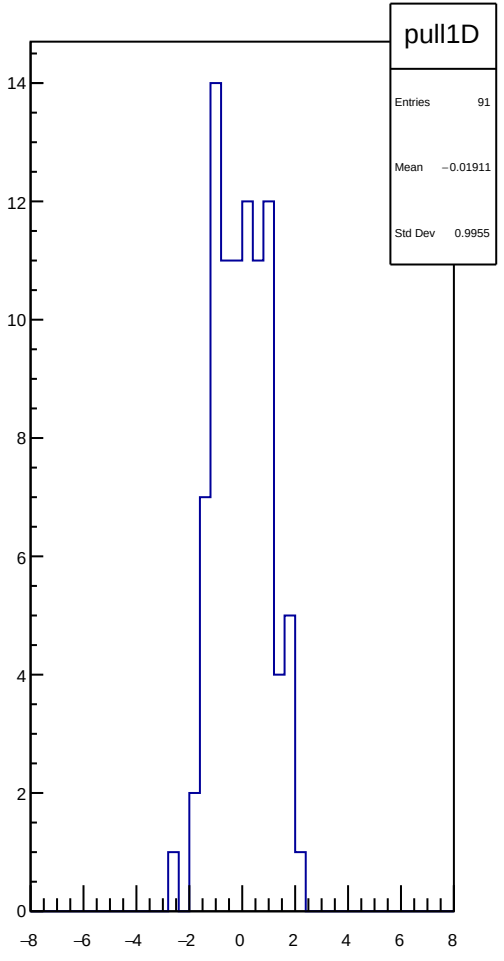

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.48e+05 / 90
p0 256.3 ± 0.2092
600
500
400
300
200
100

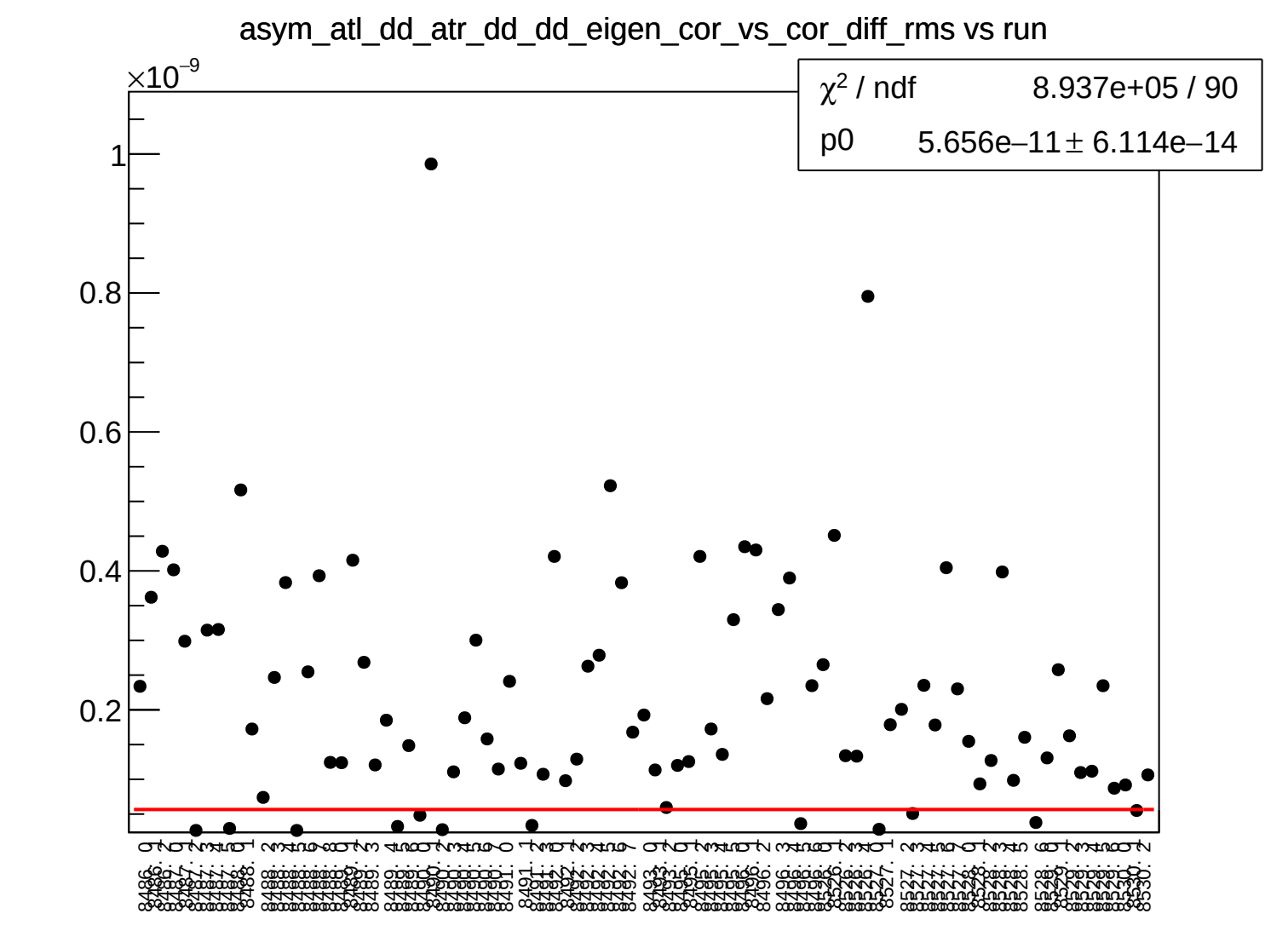

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.41 / 90
p0 −0.4428 ± 0.2959
pull
Entries 91
Mean 27.36
Std Dev 45.49

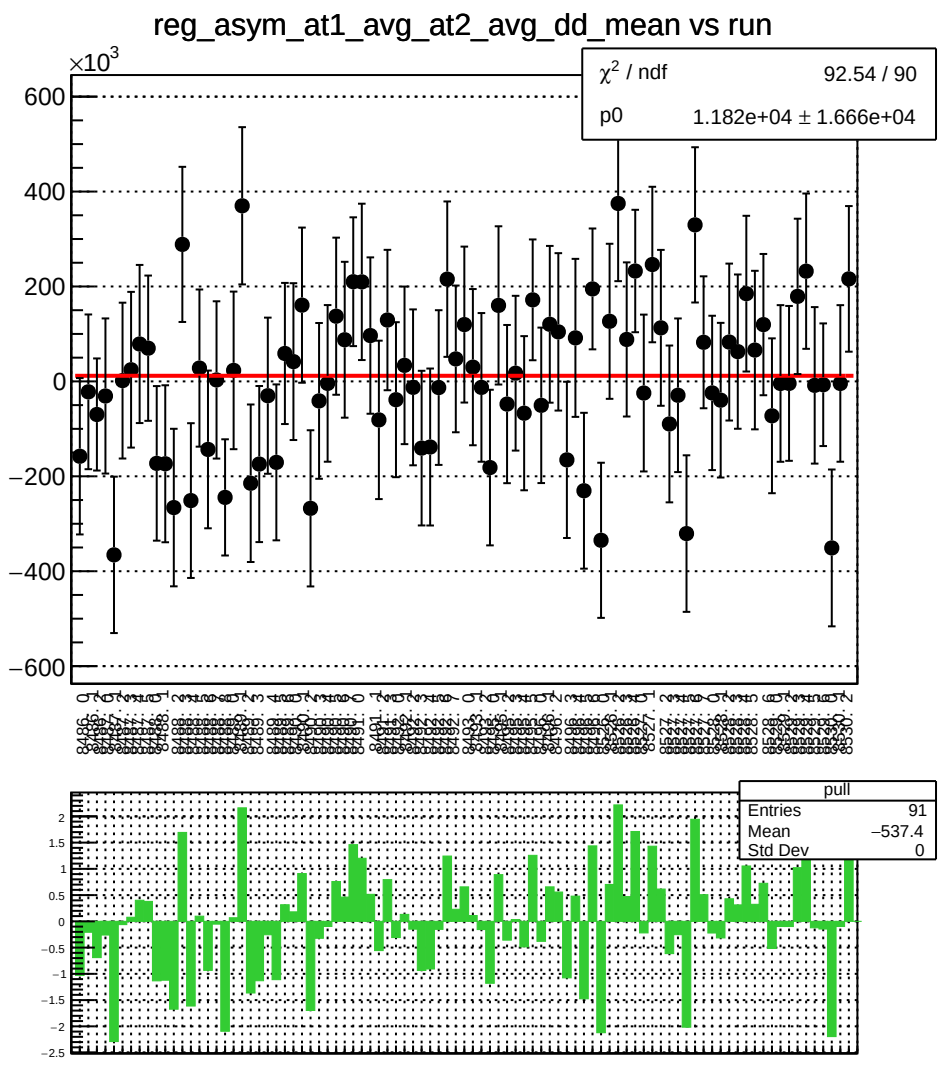

pull1D
Entries 91
Mean −0.03361
Std Dev 0.9036

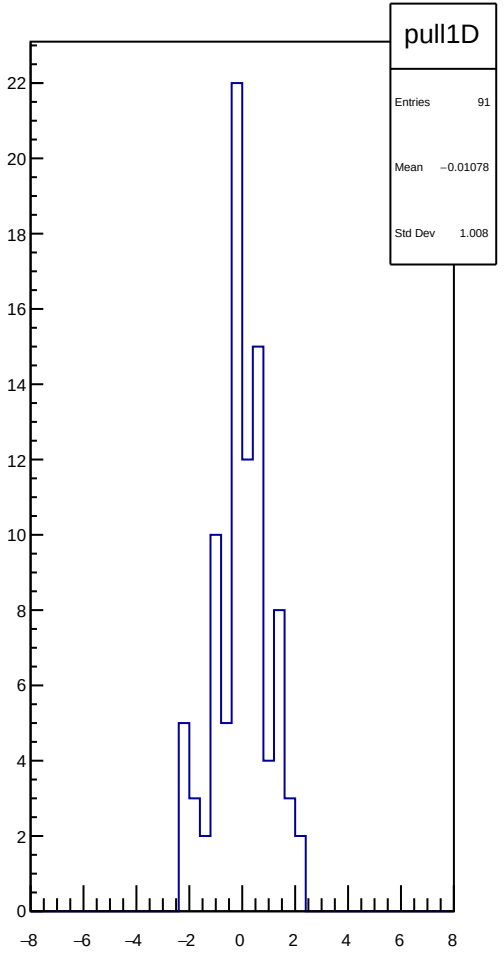

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.48e+05 / 90
p0 256.3 ± 0.2092
600
500
400
300
200
100

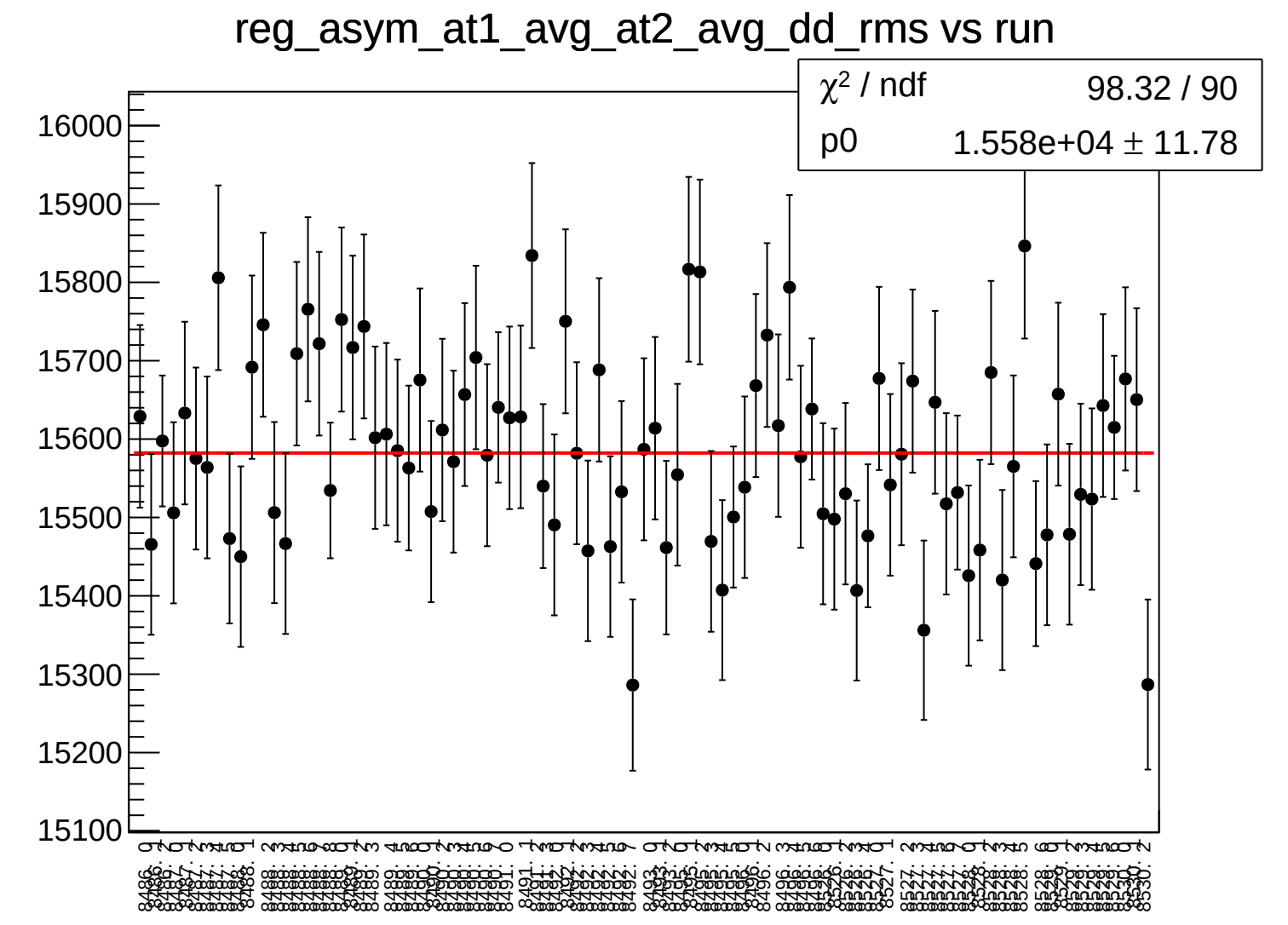

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.21 / 90
p0 −1.694e−13 ± 8.647e−14
pull
Entries 91
Mean 79.78
Std Dev 0

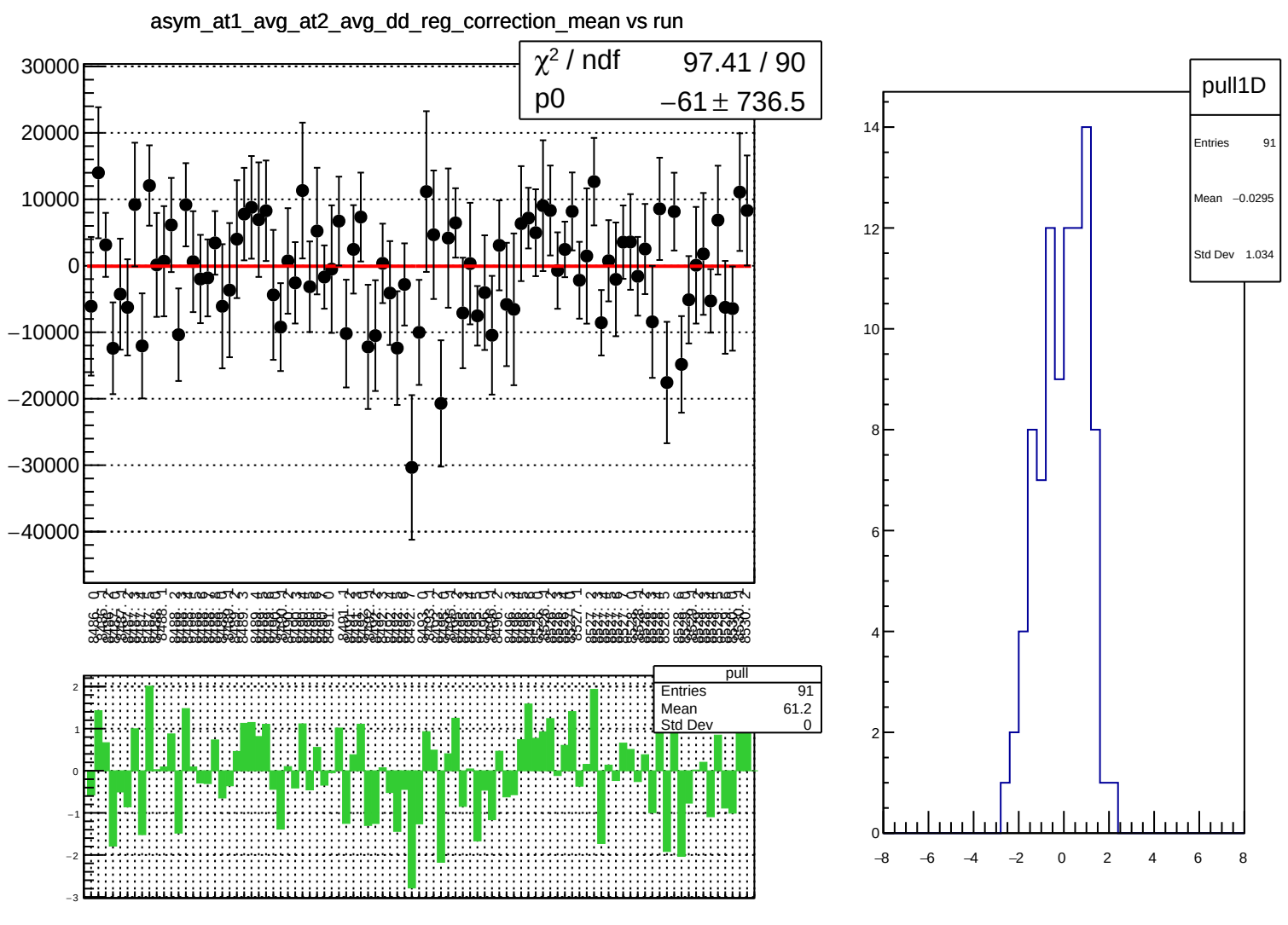

pull1D
Entries 91
Mean −0.01911
Std Dev 0.9955

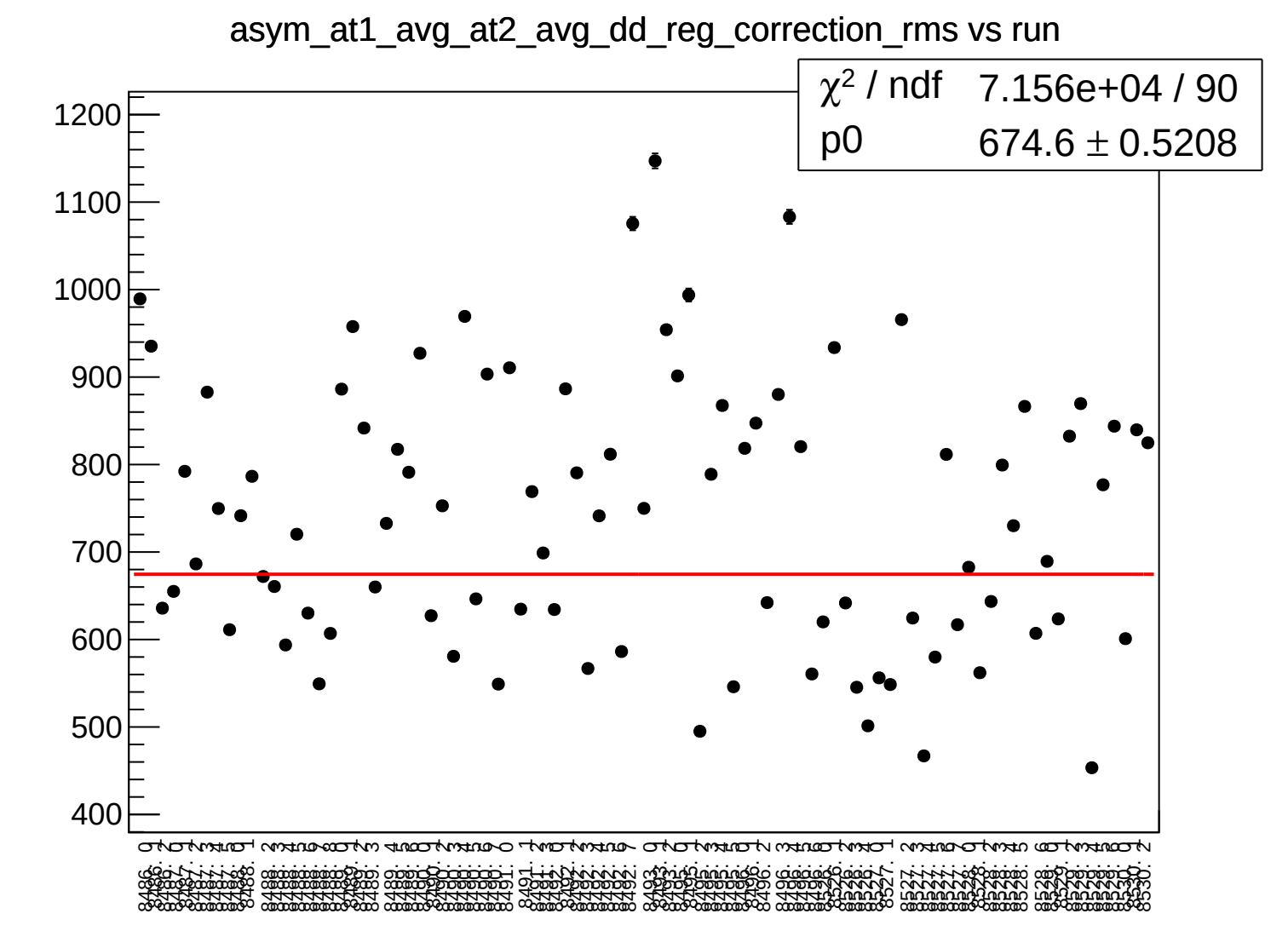

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.937e+05 / 90
p0 5.656e−11 ± 6.114e−14
1
0.8
0.6
0.4
0.2

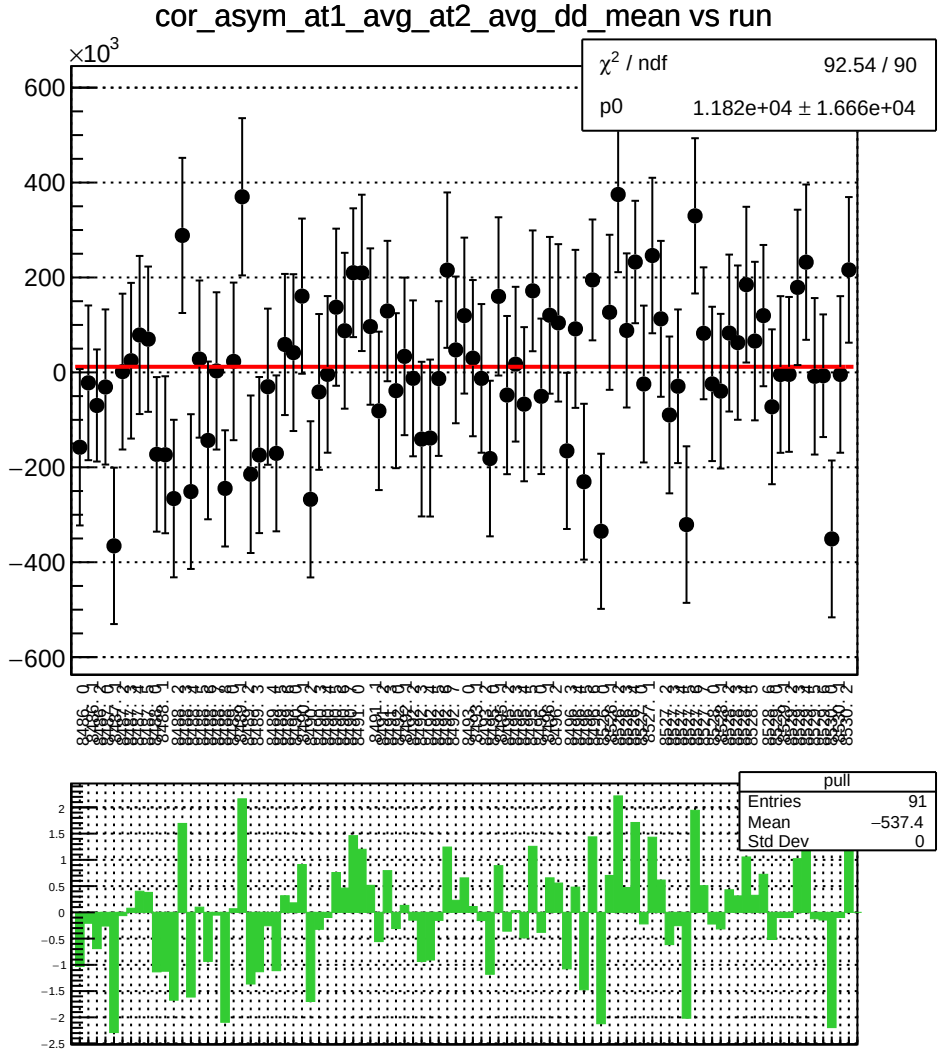

reg_asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 92.54 / 90
p0 1.182e+04 ± 1.666e+04
pull
Entries 91
Mean −537.4
Std Dev 0

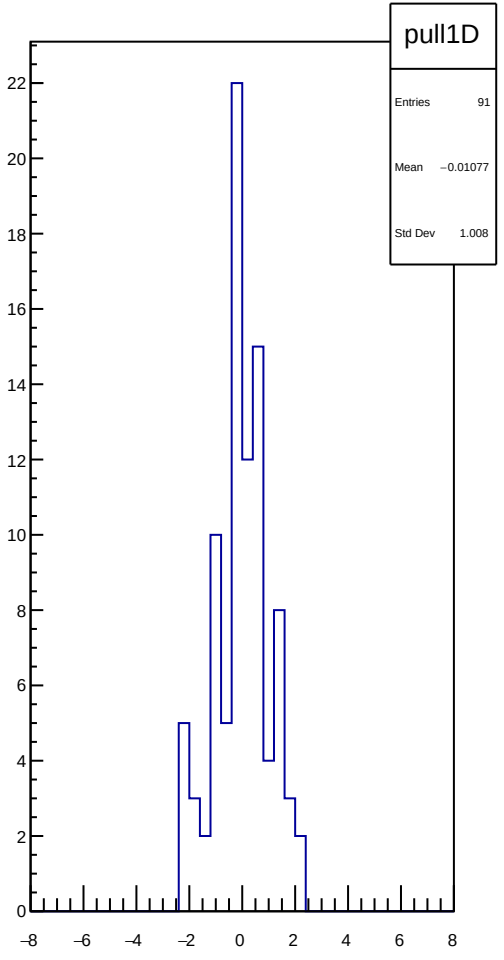

pull1D
Entries 91
Mean −0.01078
Std Dev 1.008

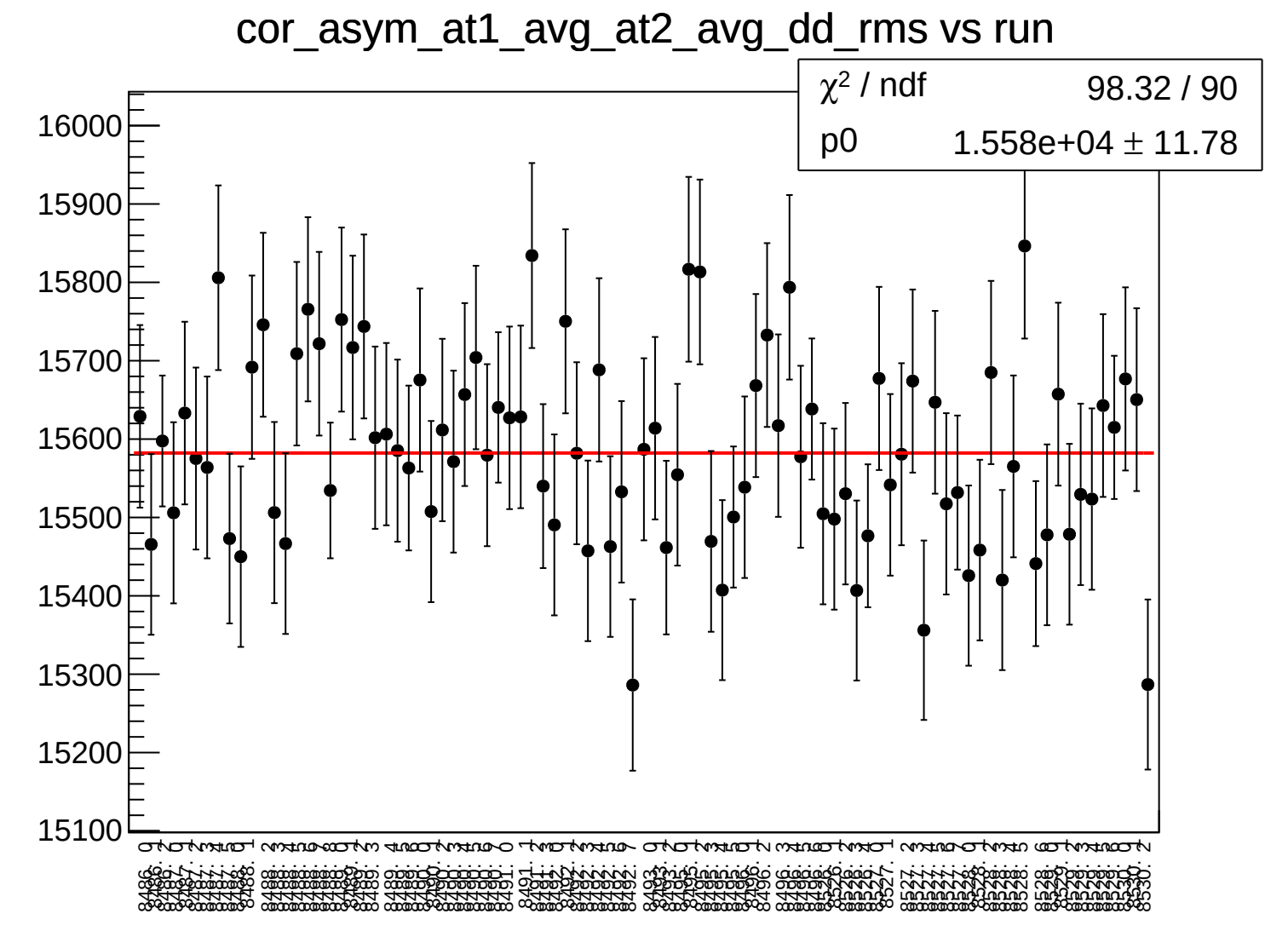

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 98.32 / 90
p0 1.558e+04 ± 11.78
16000
15900
15800
15700
15600
15500
15400
15300
15200
15100

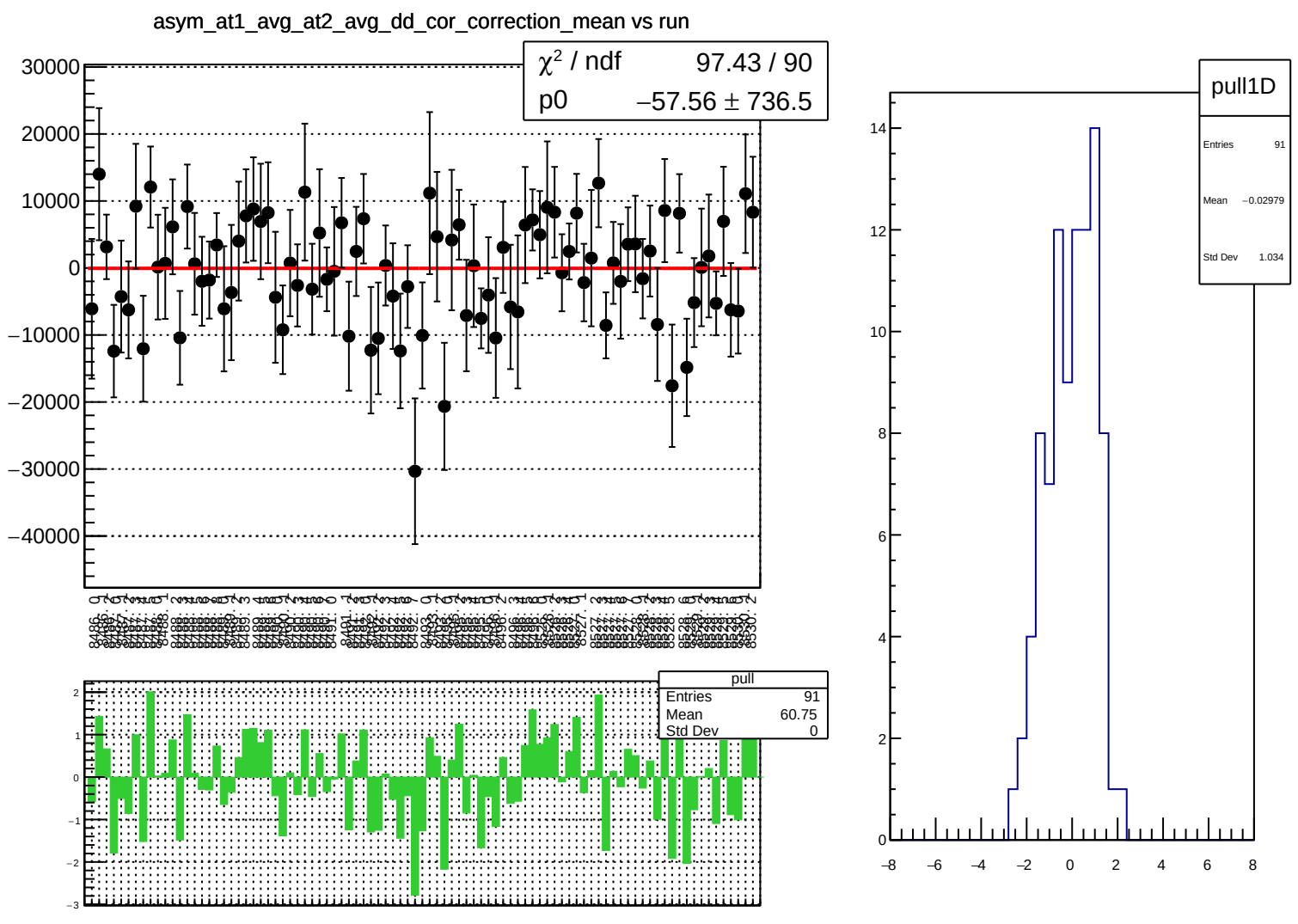

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
χ² / ndf 97.41 / 90
p0 −61 ± 736.5
pull
Entries 91
Mean 61.2
Std Dev 0
pull1D
Entries 91
Mean −0.0295
Std Dev 1.034

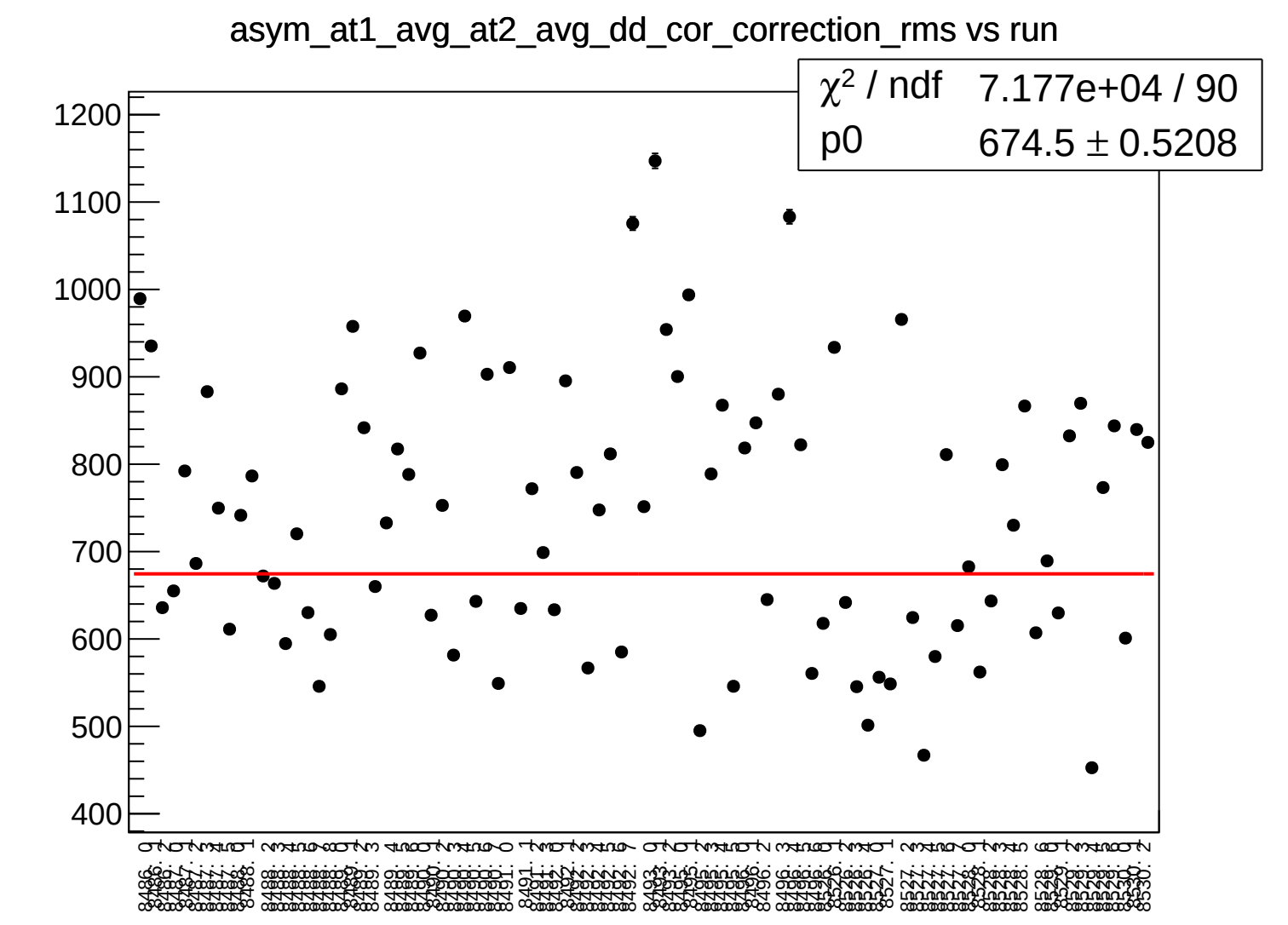

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ² / ndf 7.156e+04 / 90
p0 674.6 ± 0.5208
1200
1100
1000
900
800
700
600
500
400

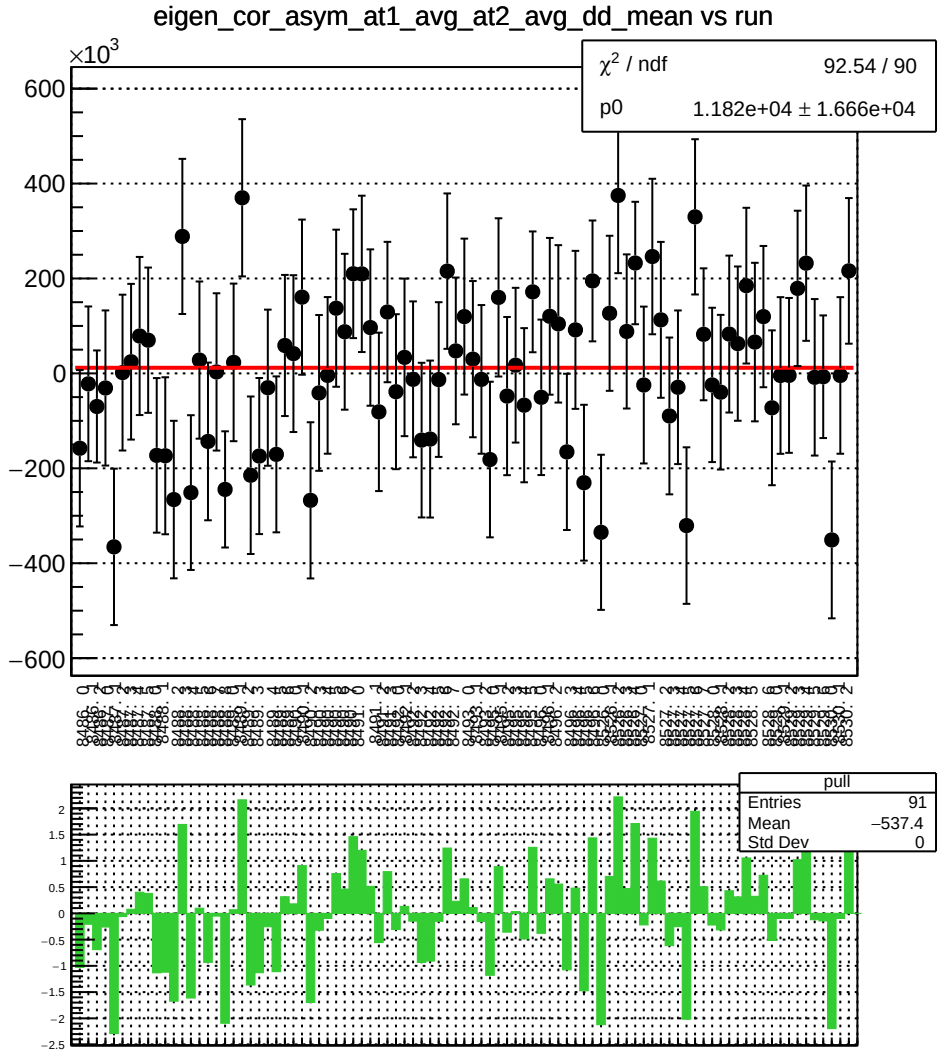

cor_asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 92.54 / 90
p0 1.182e+04 ± 1.666e+04
pull
Entries 91
Mean −537.4
Std Dev 0

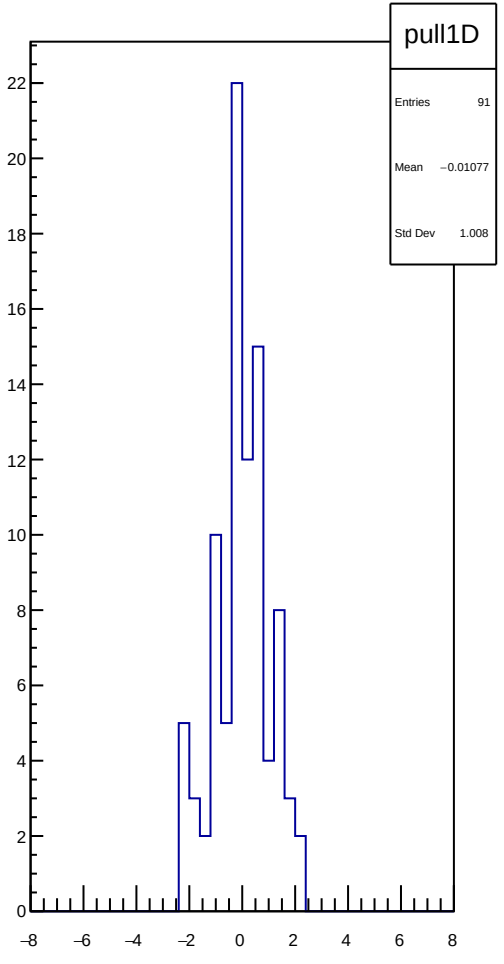

pull1D
Entries 91
Mean −0.01077
Std Dev 1.008

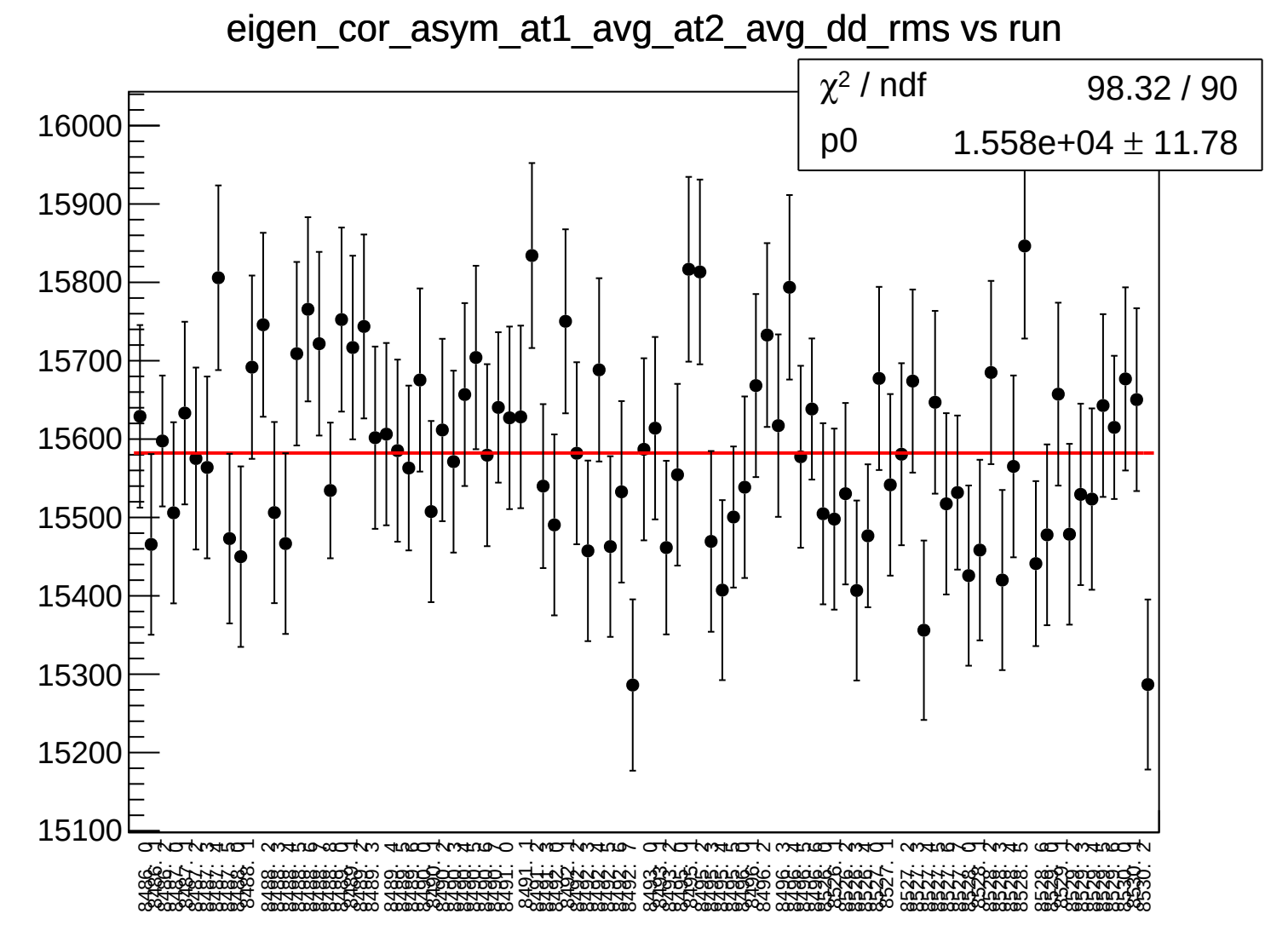

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 98.32 / 90
p0 1.558e+04 ± 11.78
16000
15900
15800
15700
15600
15500
15400
15300
15200
15100

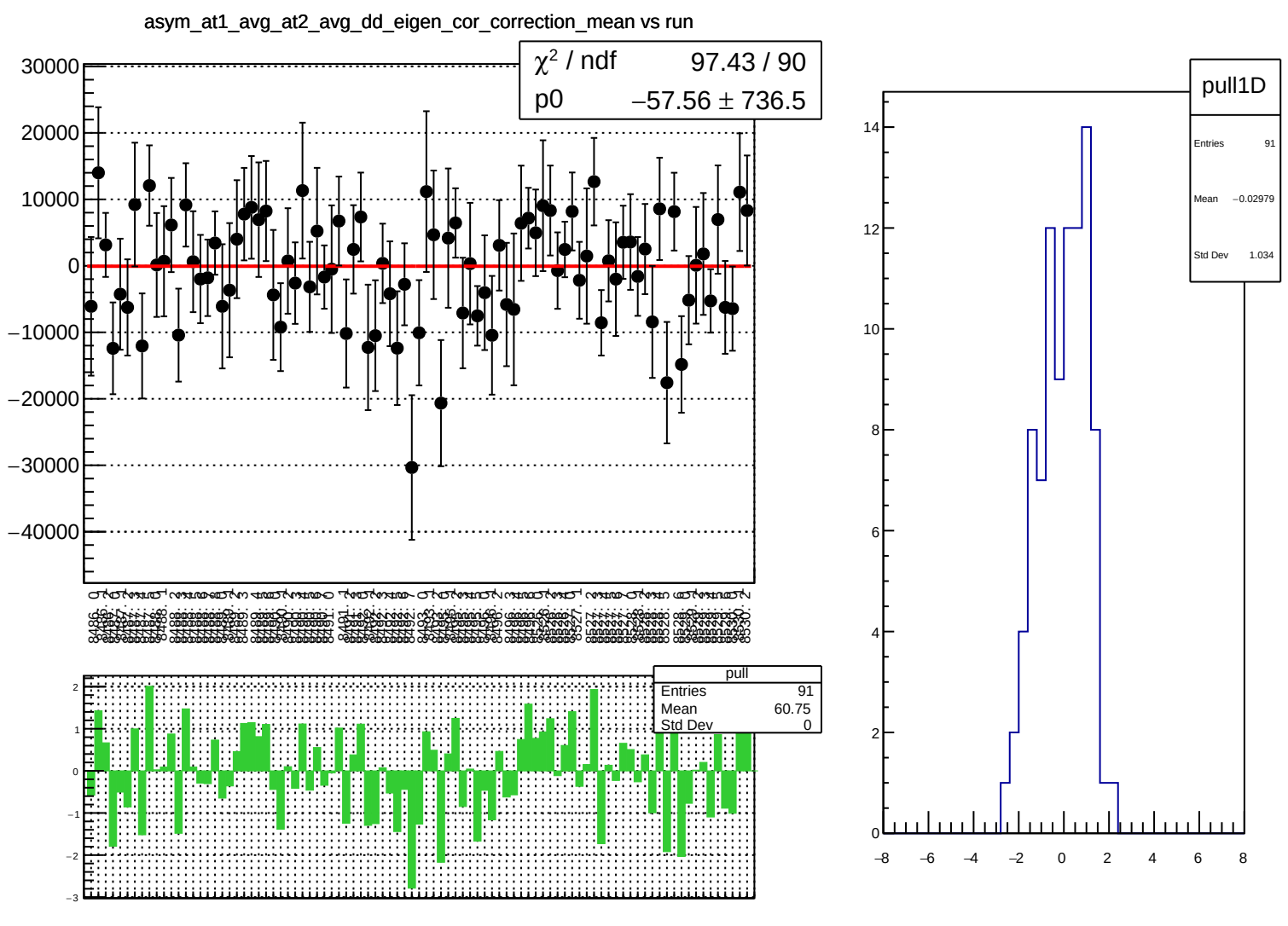

asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
χ² / ndf 97.43 / 90
p0 −57.56 ± 736.5
pull
Entries 91
Mean 60.75
Std Dev 0
pull1D
Entries 91
Mean −0.02979
Std Dev 1.034

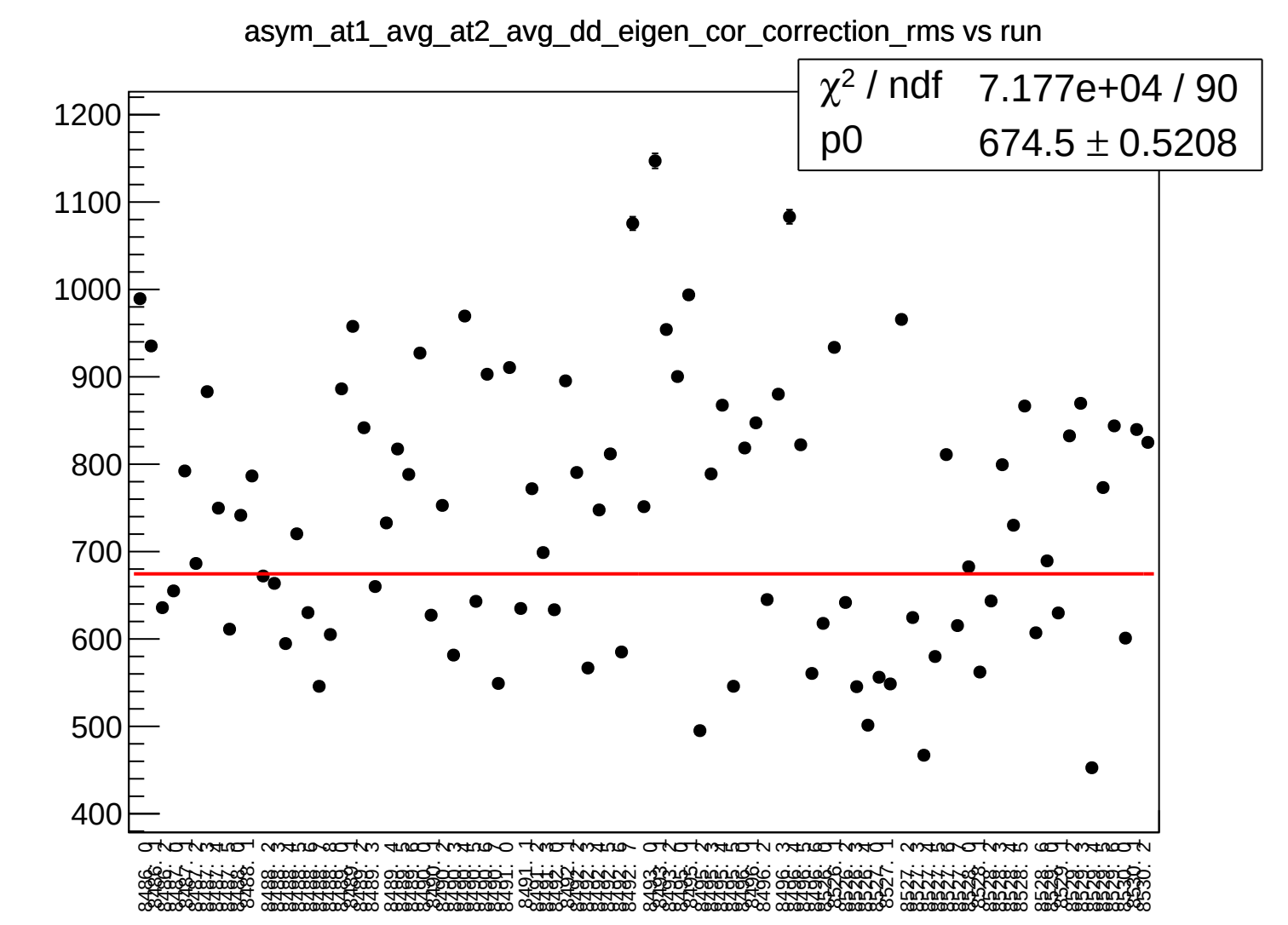

asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 7.177e+04 / 90
p0 674.5 ± 0.5208
1200
1100
1000
900
800
700
600
500
400

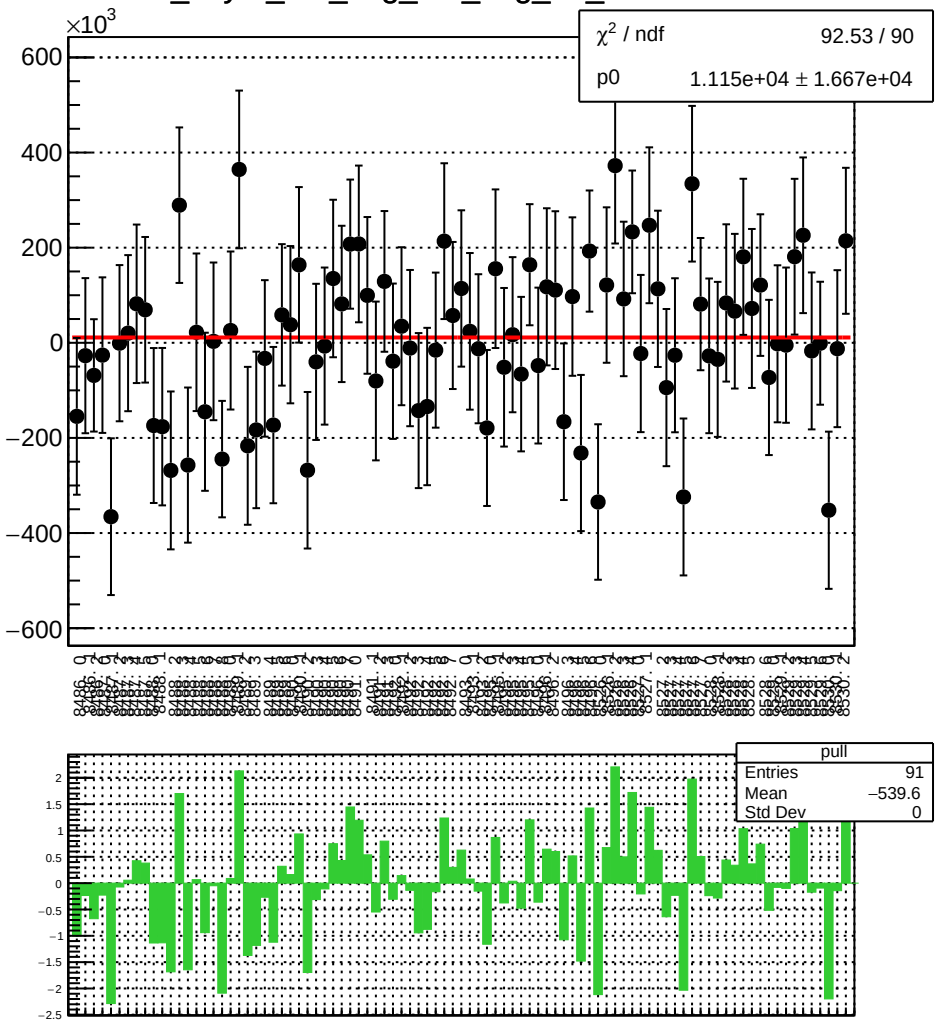

eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 92.54 / 90
p0 1.182e+04 ± 1.666e+04
pull
Entries 91
Mean −537.4
Std Dev 0

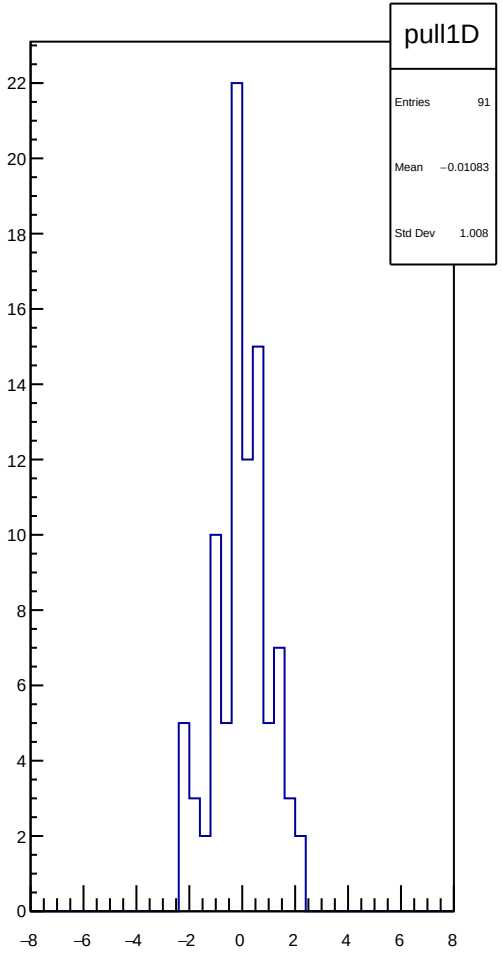

pull1D
Entries 91
Mean −0.01077
Std Dev 1.008

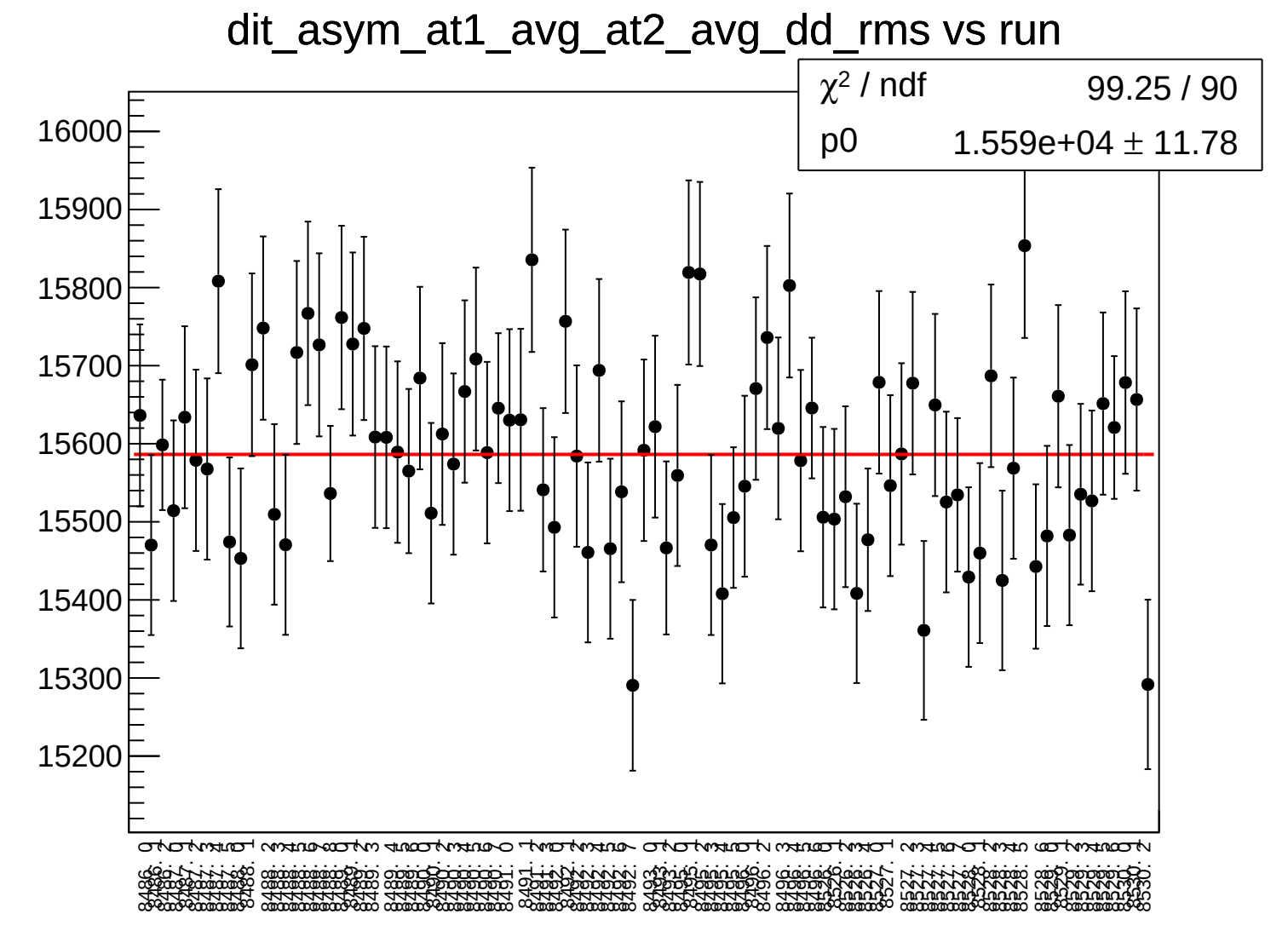

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 98.32 / 90
p0 1.558e+04 ± 11.78
16000
15900
15800
15700
15600
15500
15400
15300
15200
15100

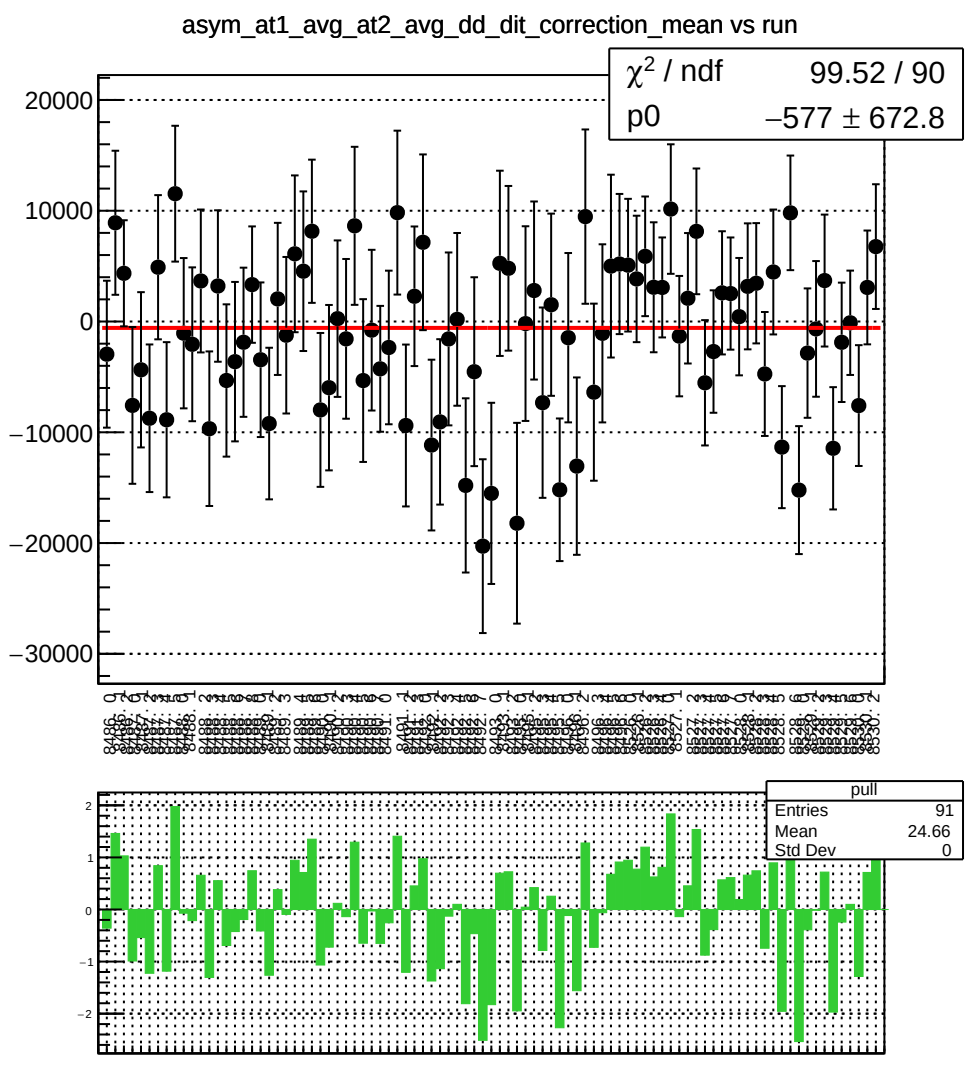

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 97.43 / 90
p0 −57.56 ± 736.5
pull
Entries 91
Mean 60.75
Std Dev 0
pull1D
Entries 91
Mean −0.02979
Std Dev 1.034

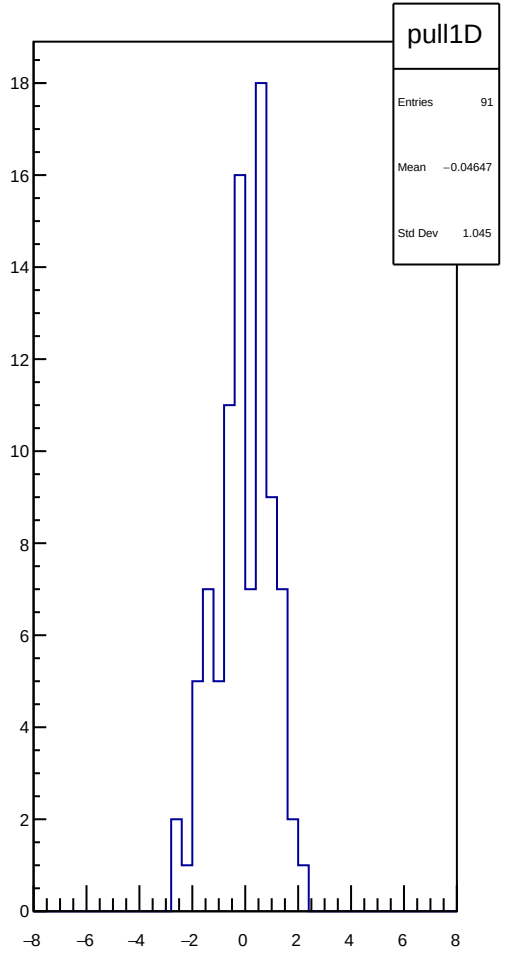

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 7.177e+04 / 90
p0 674.5 ± 0.5208
1200
1100
1000
900
800
700
600
500
400

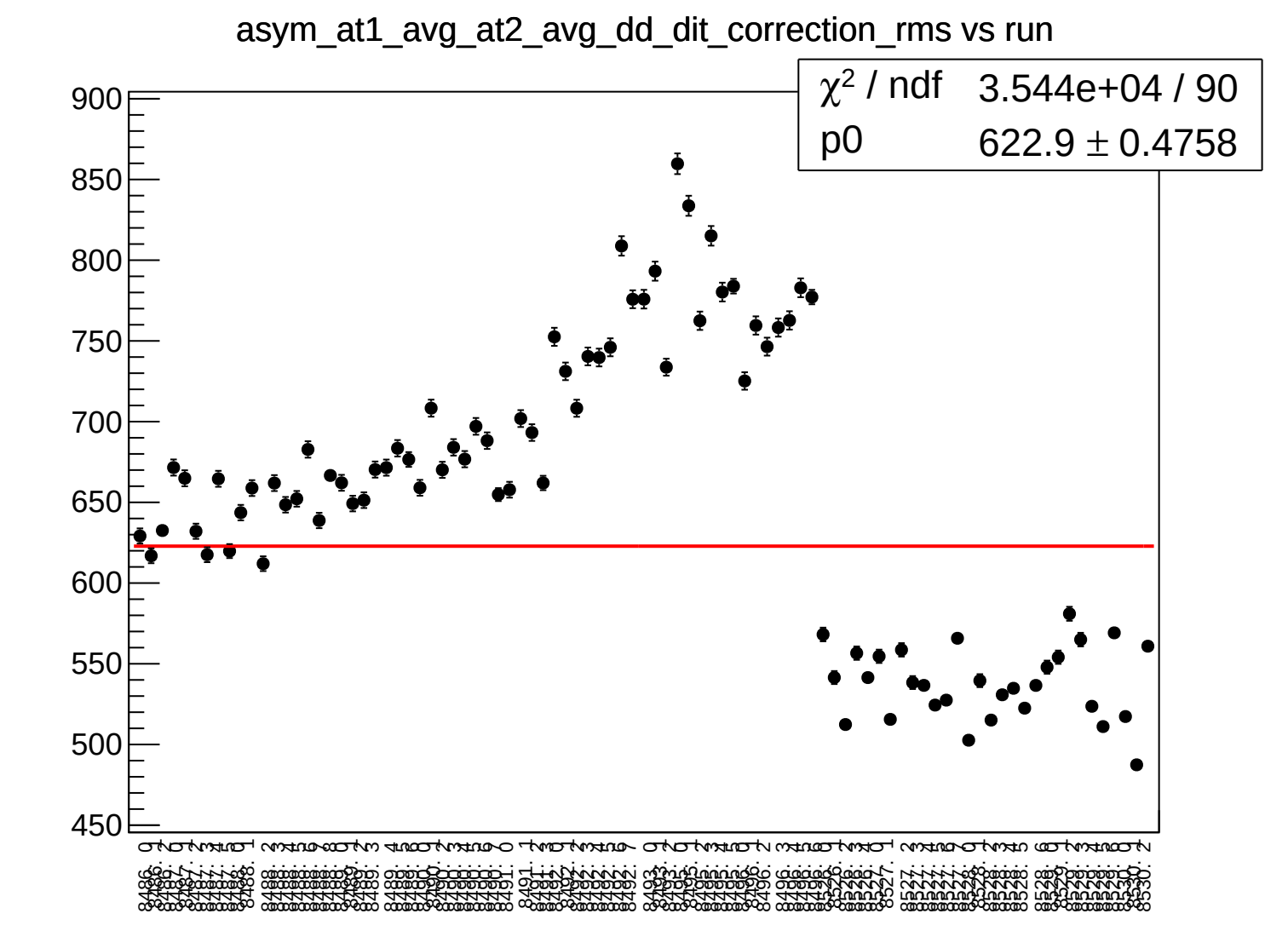

dit_asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 92.53 / 90
p0 1.115e+04 ± 1.667e+04
pull
Entries 91
Mean −539.6
Std Dev 0

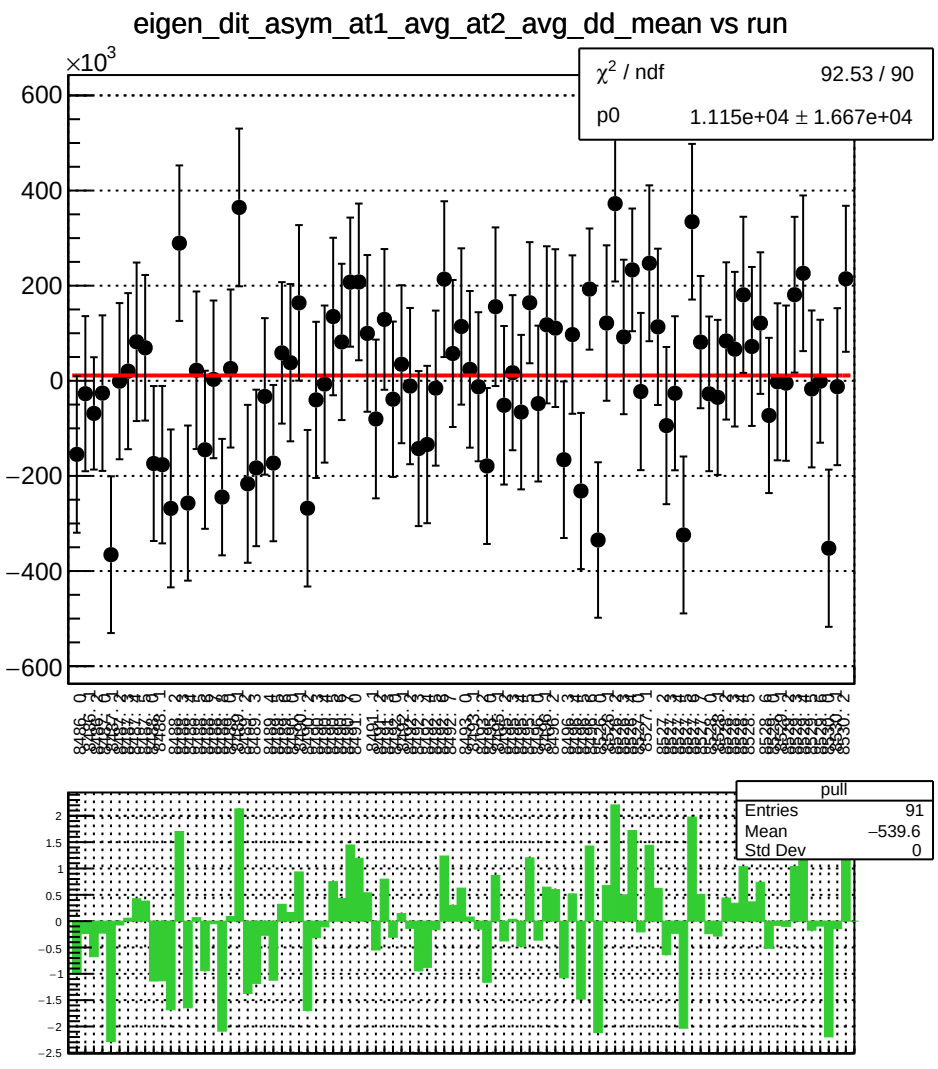

pull1D
Entries 91
Mean −0.01083
Std Dev 1.008

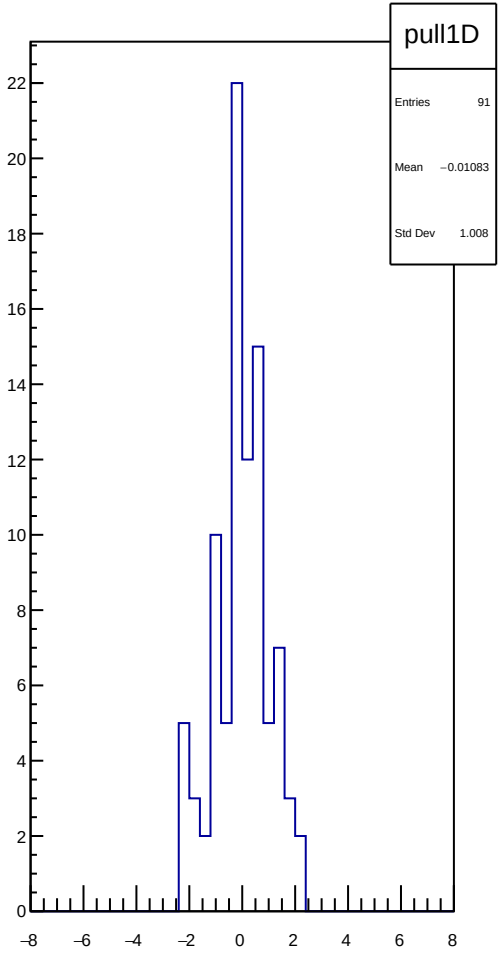

dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 99.25 / 90
p0 1.559e+04 ± 11.78
16000
15900
15800
15700
15600
15500
15400
15300
15200

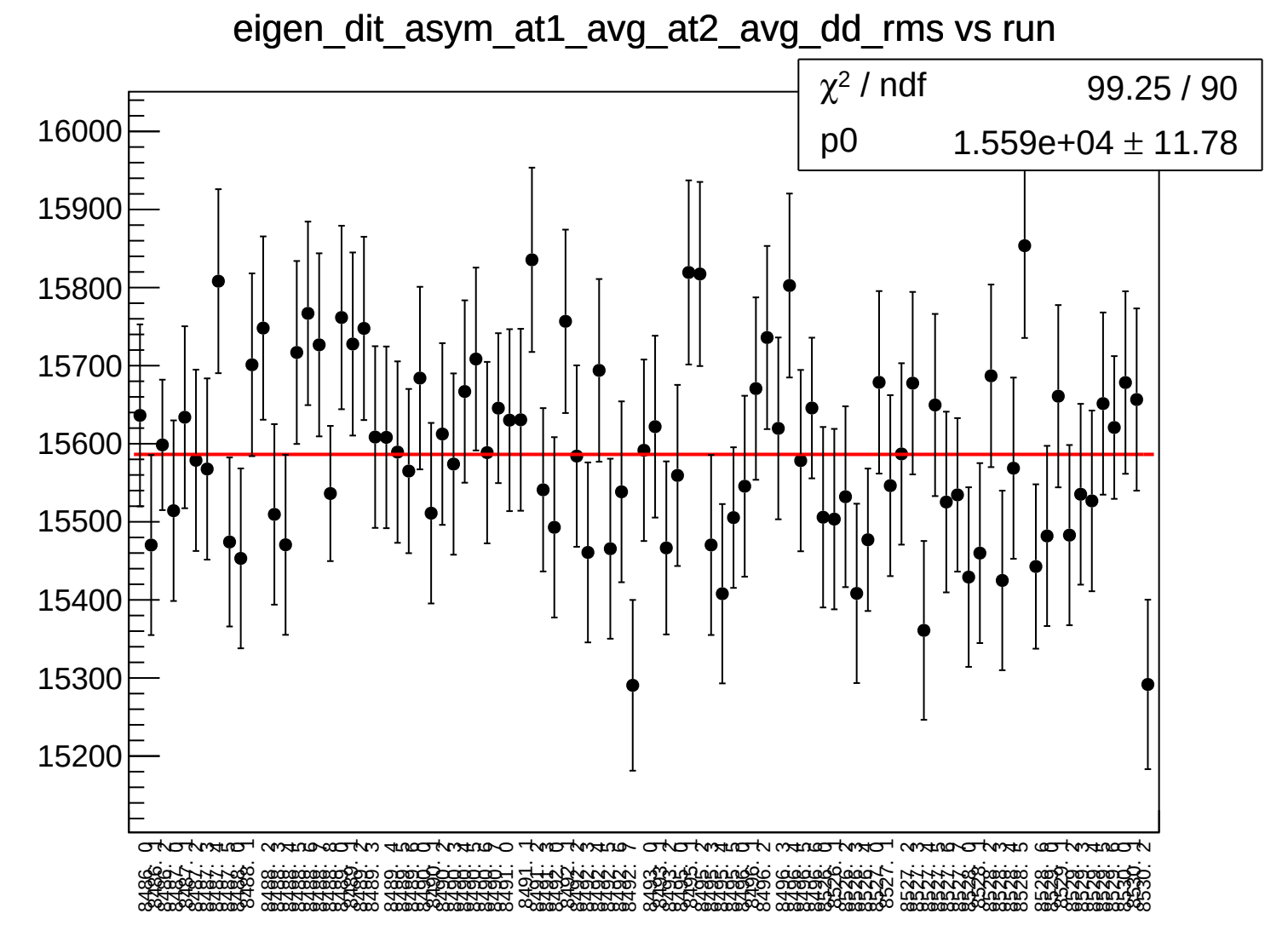

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
χ² / ndf 99.52 / 90
p0 −577 ± 672.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 24.66
Std Dev 0
2
1
0
−1
−2

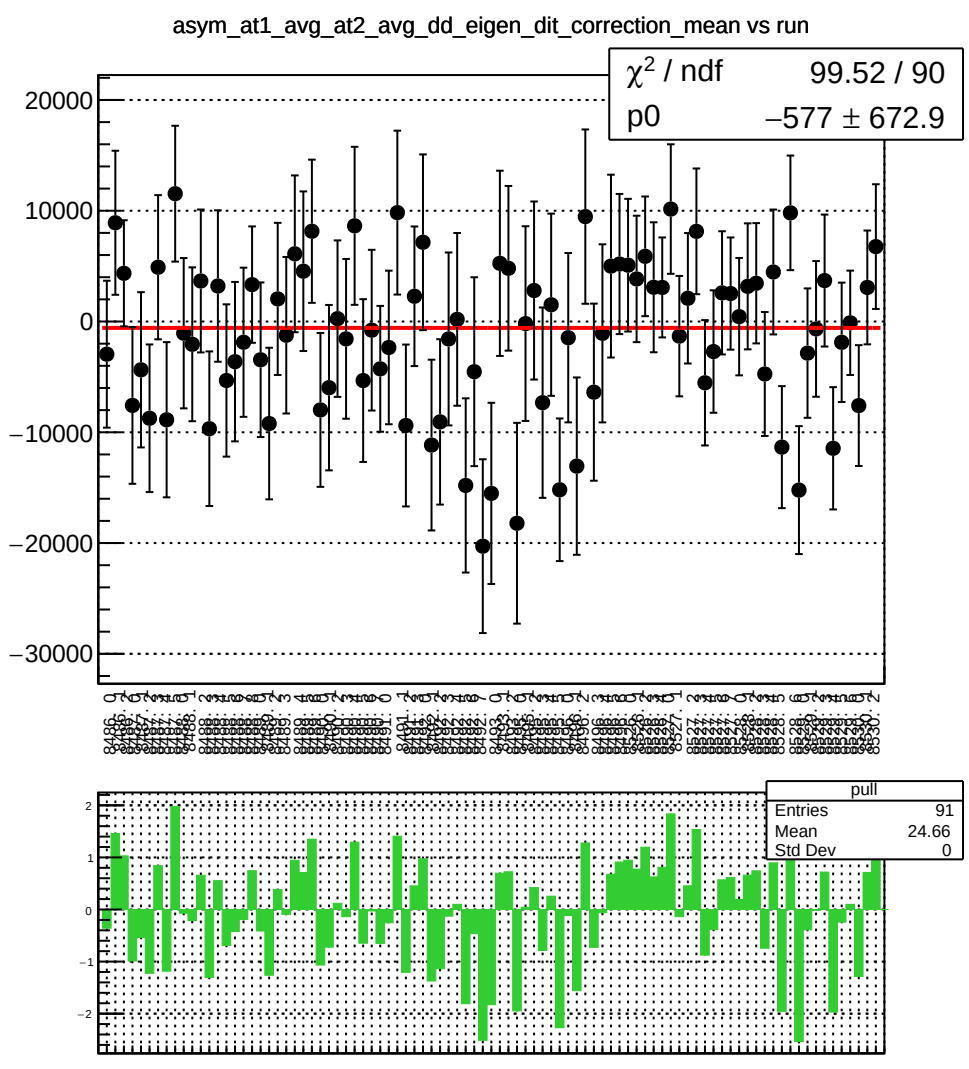

pull1D
Entries 91
Mean −0.04647
Std Dev 1.045
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

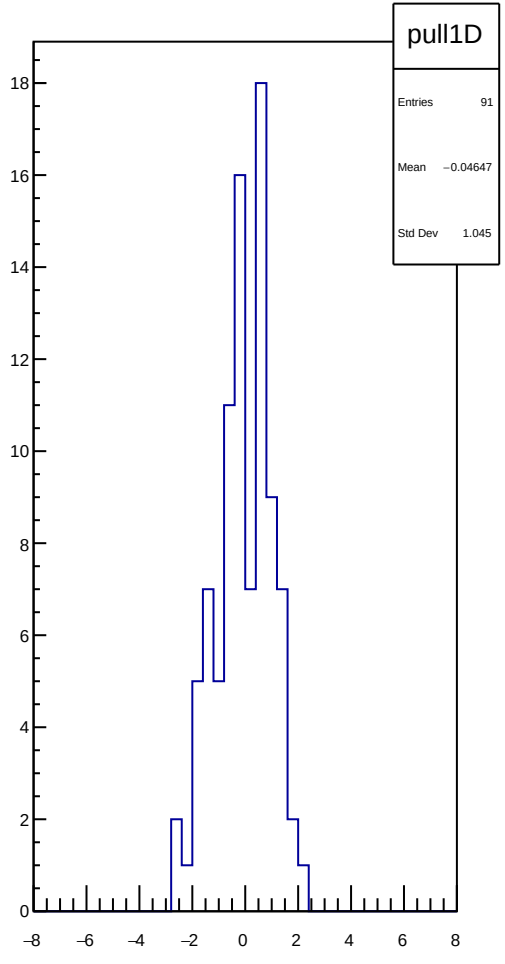

asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 3.544e+04 / 90
p0 622.9 ± 0.4758
900
850
800
750
700
650
600
550
500
450

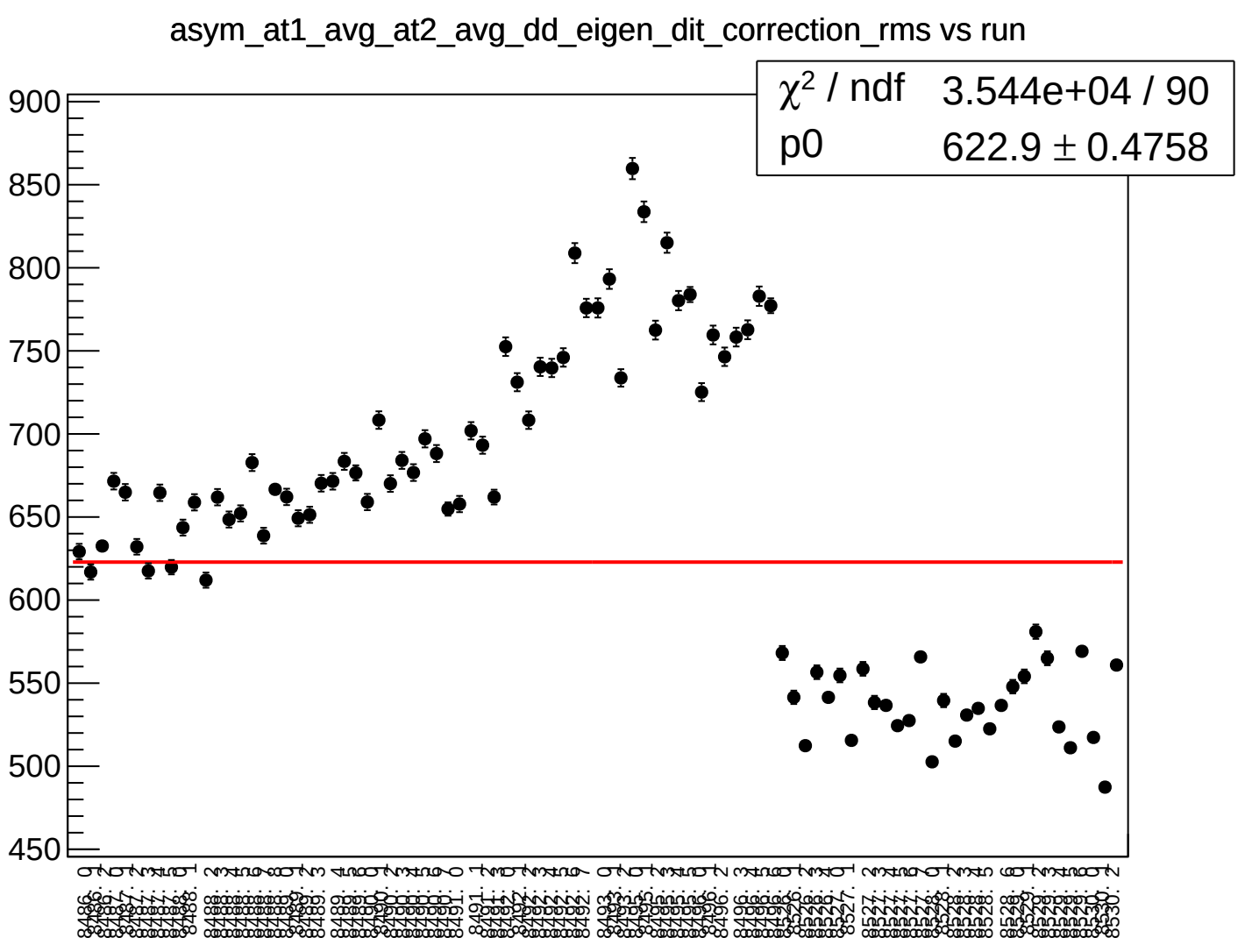

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 92.53 / 90
p0 1.115e+04 ± 1.667e+04
pull
Entries 91
Mean −539.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

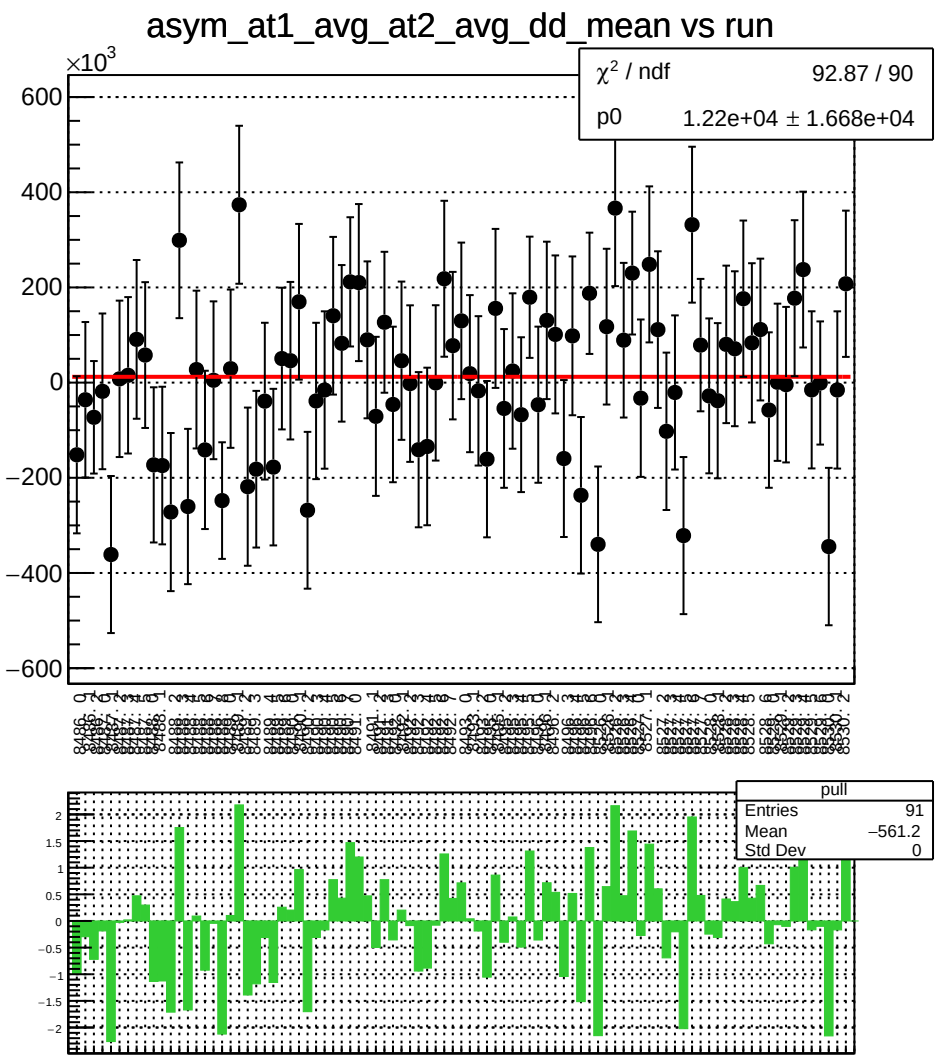

pull1D
Entries 91
Mean −0.01083
Std Dev 1.008
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

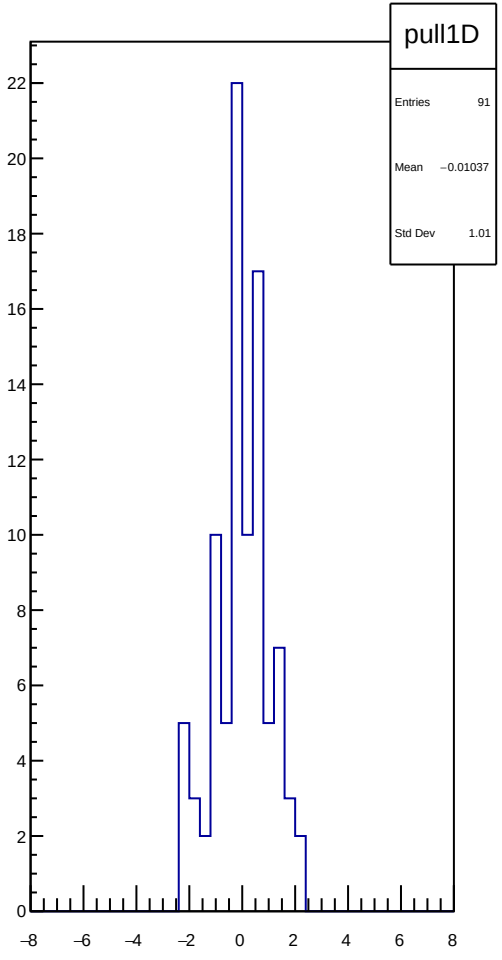

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 99.25 / 90
p0 1.559e+04 ± 11.78
16000
15900
15800
15700
15600
15500
15400
15300
15200

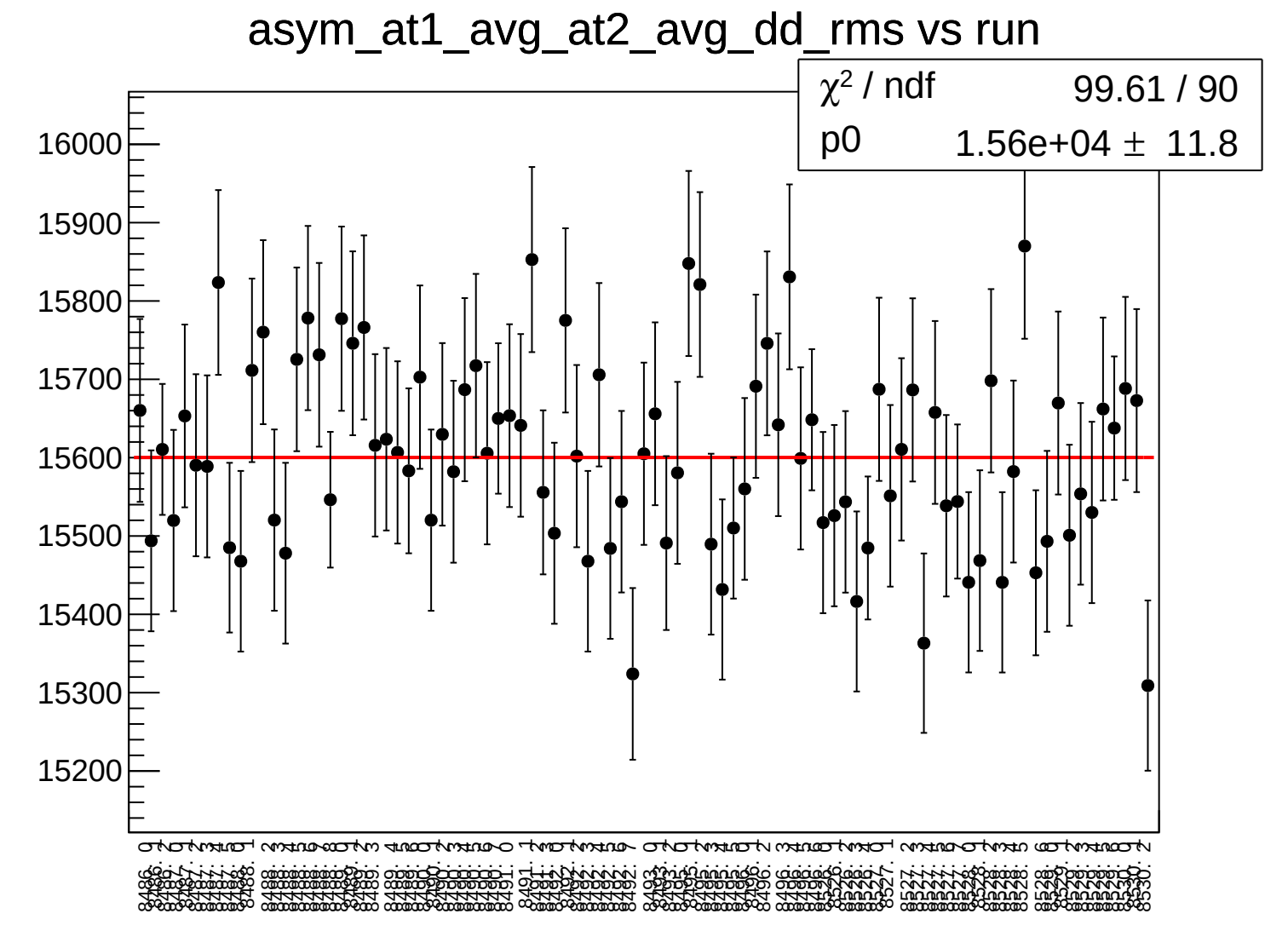

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 99.52 / 90
p0 −577 ± 672.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 24.66
Std Dev 0
2
1
0
−1
−2

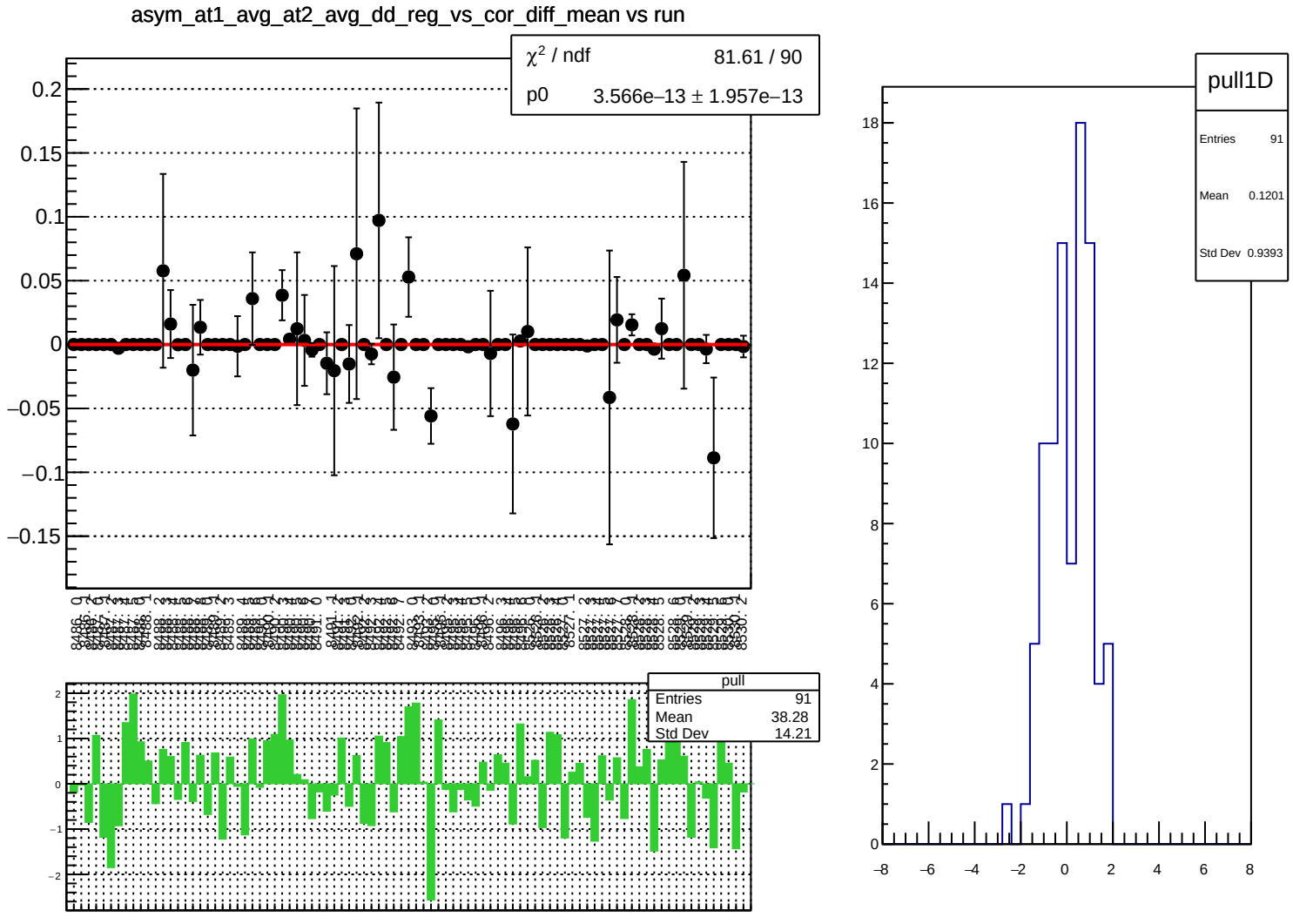

pull1D
Entries 91
Mean −0.04647
Std Dev 1.045
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

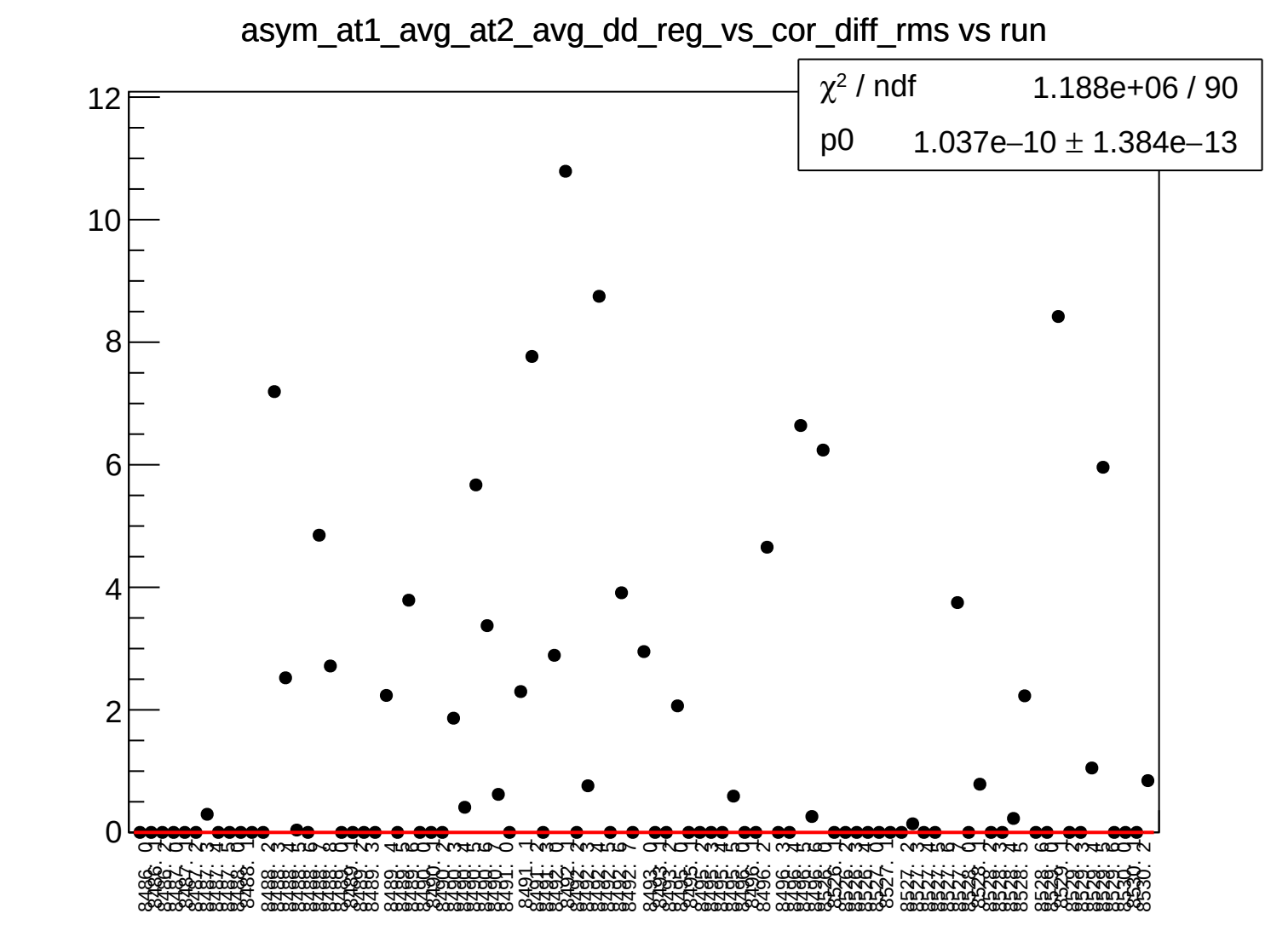

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.544e+04 / 90
p0 622.9 ± 0.4758
900
850
800
750
700
650
600
550
500
450

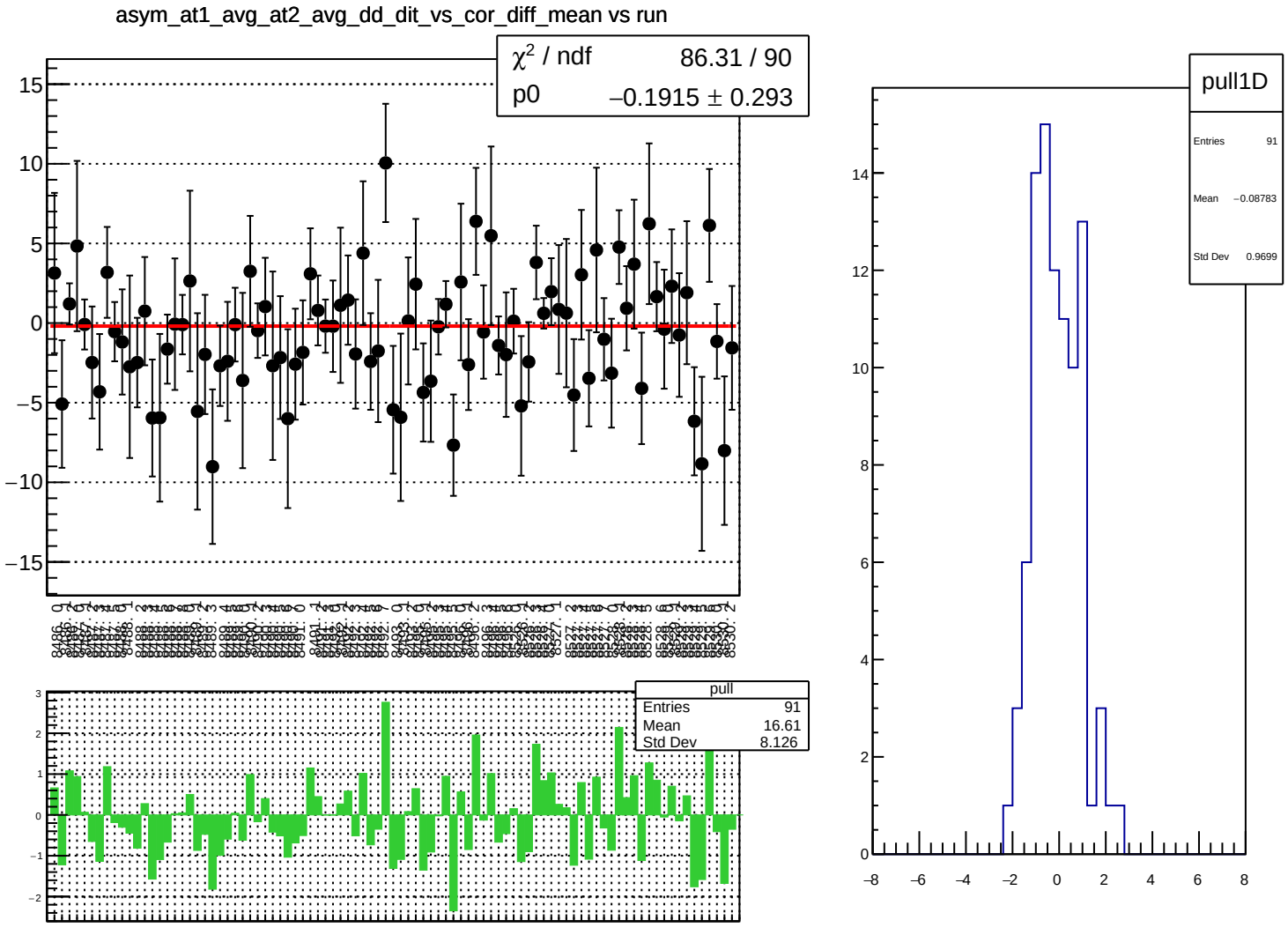

asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 92.87 / 90
p0 1.22e+04 ± 1.668e+04
pull
Entries 91
Mean −561.2
Std Dev 0

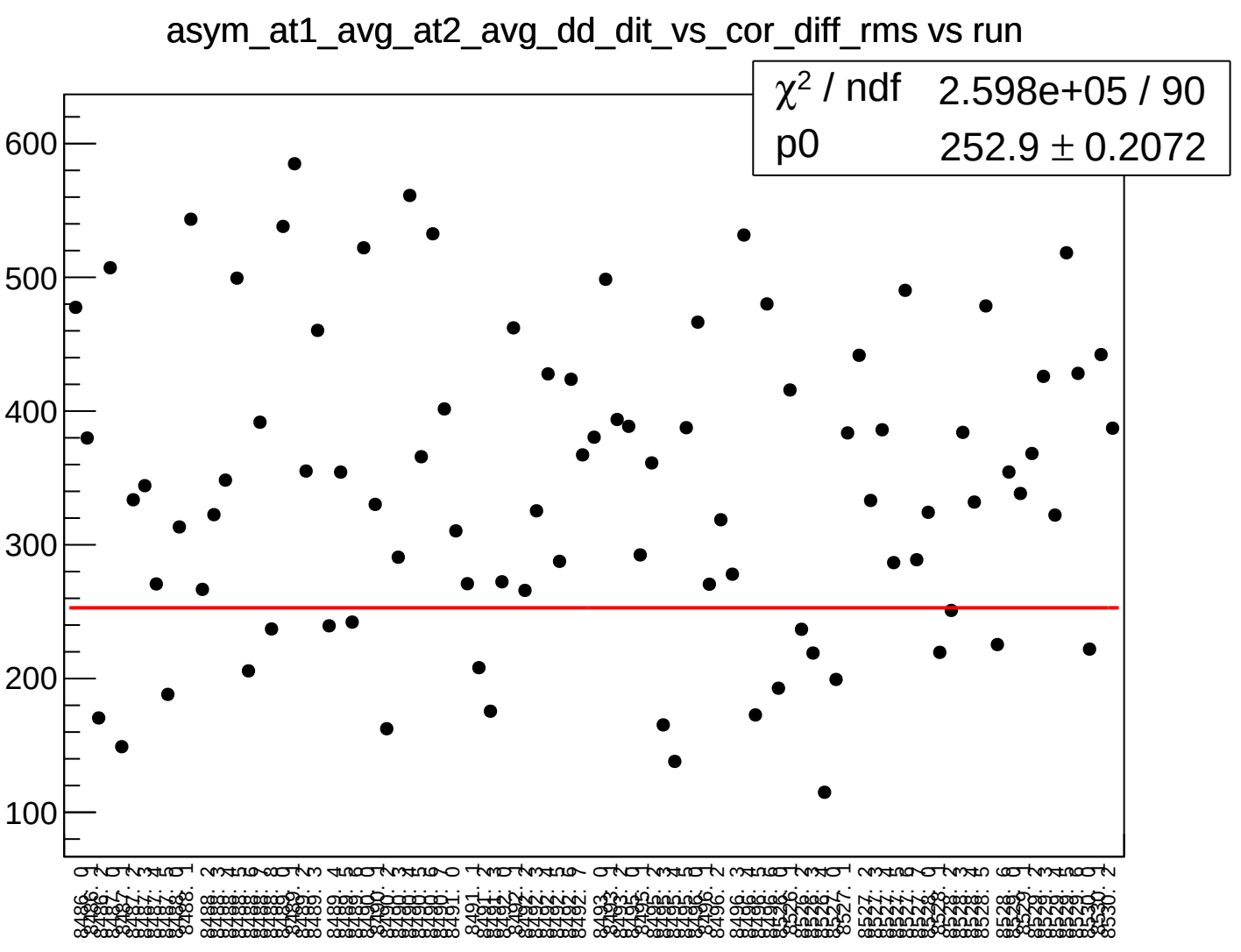

pull1D
Entries 91
Mean −0.01037
Std Dev 1.01

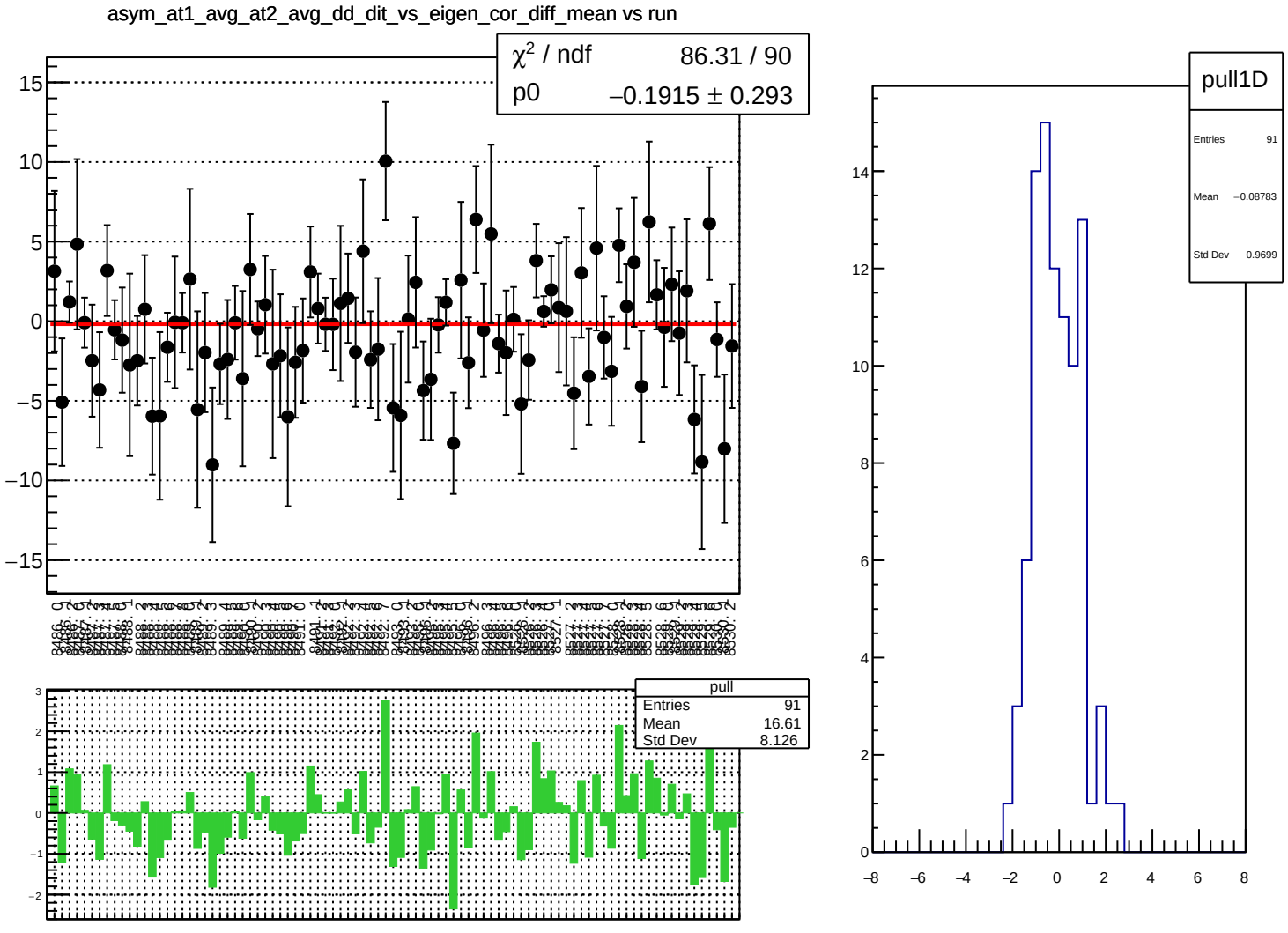

asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 99.61 / 90
p0 1.56e+04 ± 11.8
16000
15900
15800
15700
15600
15500
15400
15300
15200

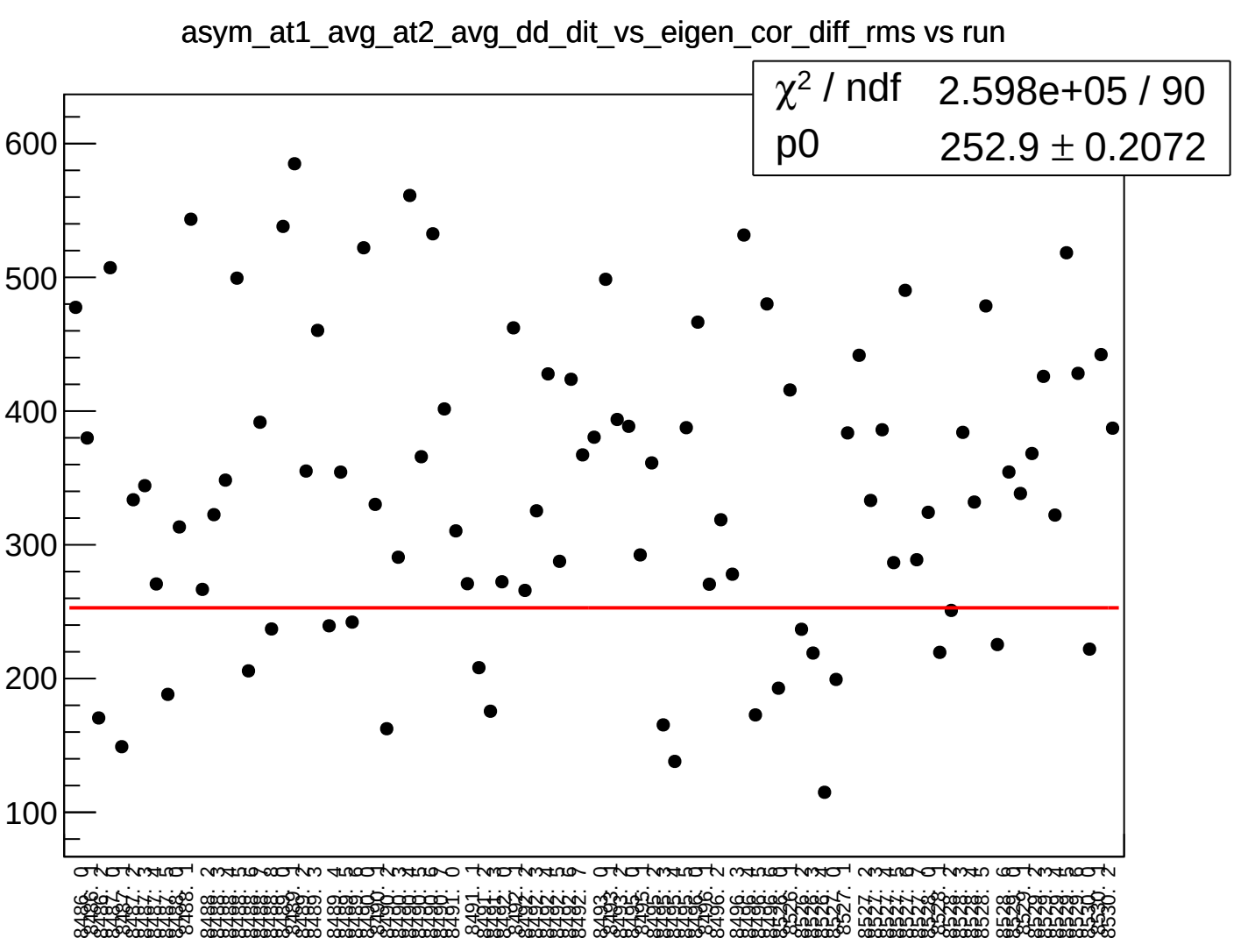

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 81.61 / 90
p0 3.566e−13 ± 1.957e−13
pull
Entries 91
Mean 38.28
Std Dev 14.21
pull1D
Entries 91
Mean 0.1201
Std Dev 0.9393

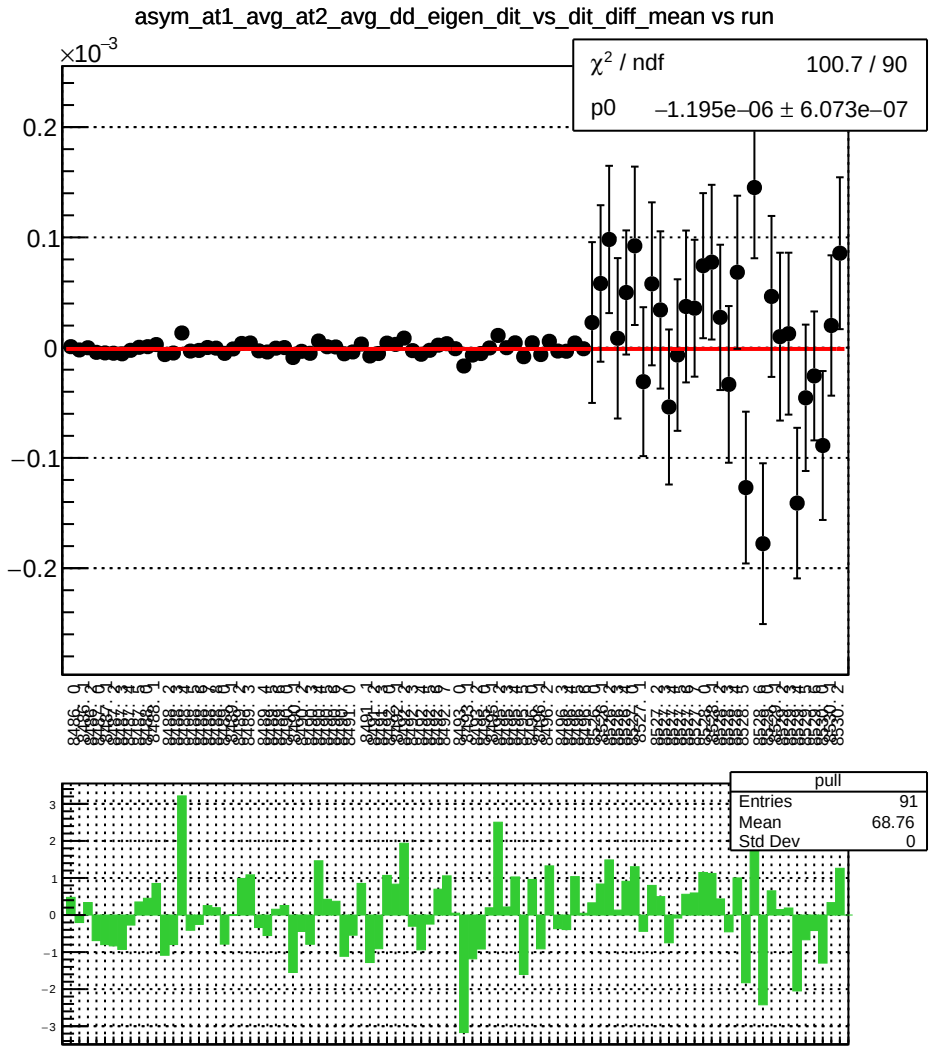

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.188e+06 / 90
p0 1.037e−10 ± 1.384e−13
12
10
8
6
4
2
0

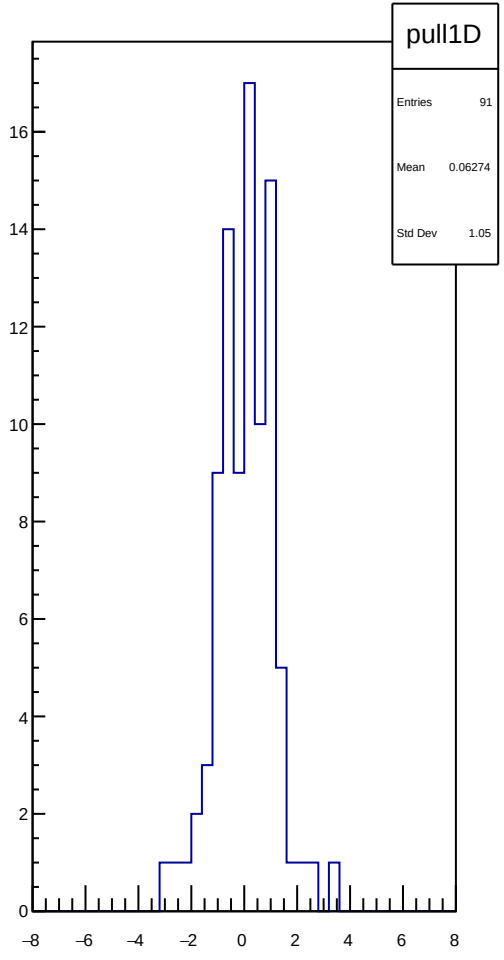

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.31 / 90
p0 −0.1915 ± 0.293
pull
Entries 91
Mean 16.61
Std Dev 8.126
pull1D
Entries 91
Mean −0.08783
Std Dev 0.9699

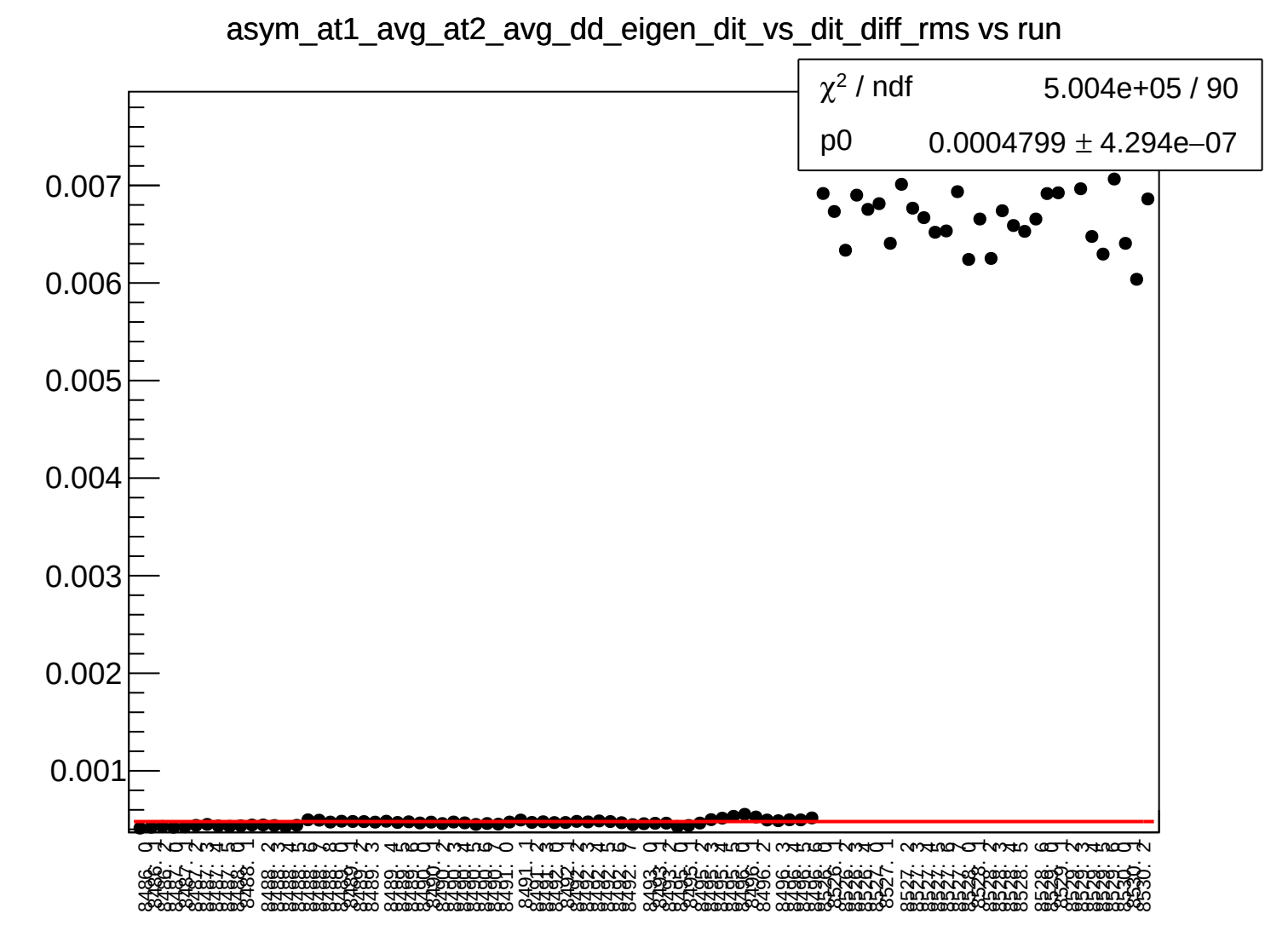

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.598e+05 / 90
p0 252.9 ± 0.2072
600
500
400
300
200
100

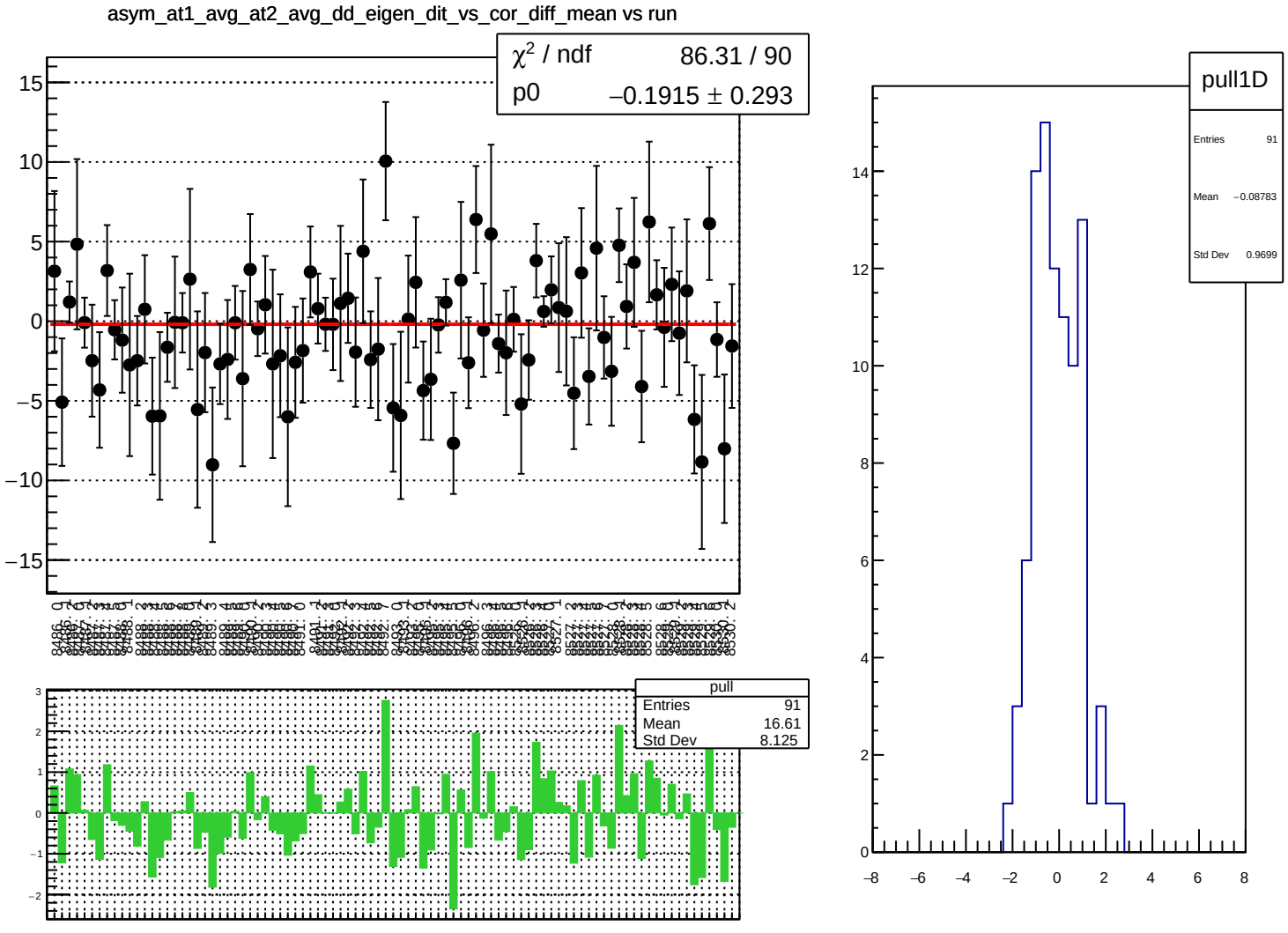

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.31 / 90
p0 −0.1915 ± 0.293
pull
Entries 91
Mean 16.61
Std Dev 8.126
pull1D
Entries 91
Mean −0.08783
Std Dev 0.9699

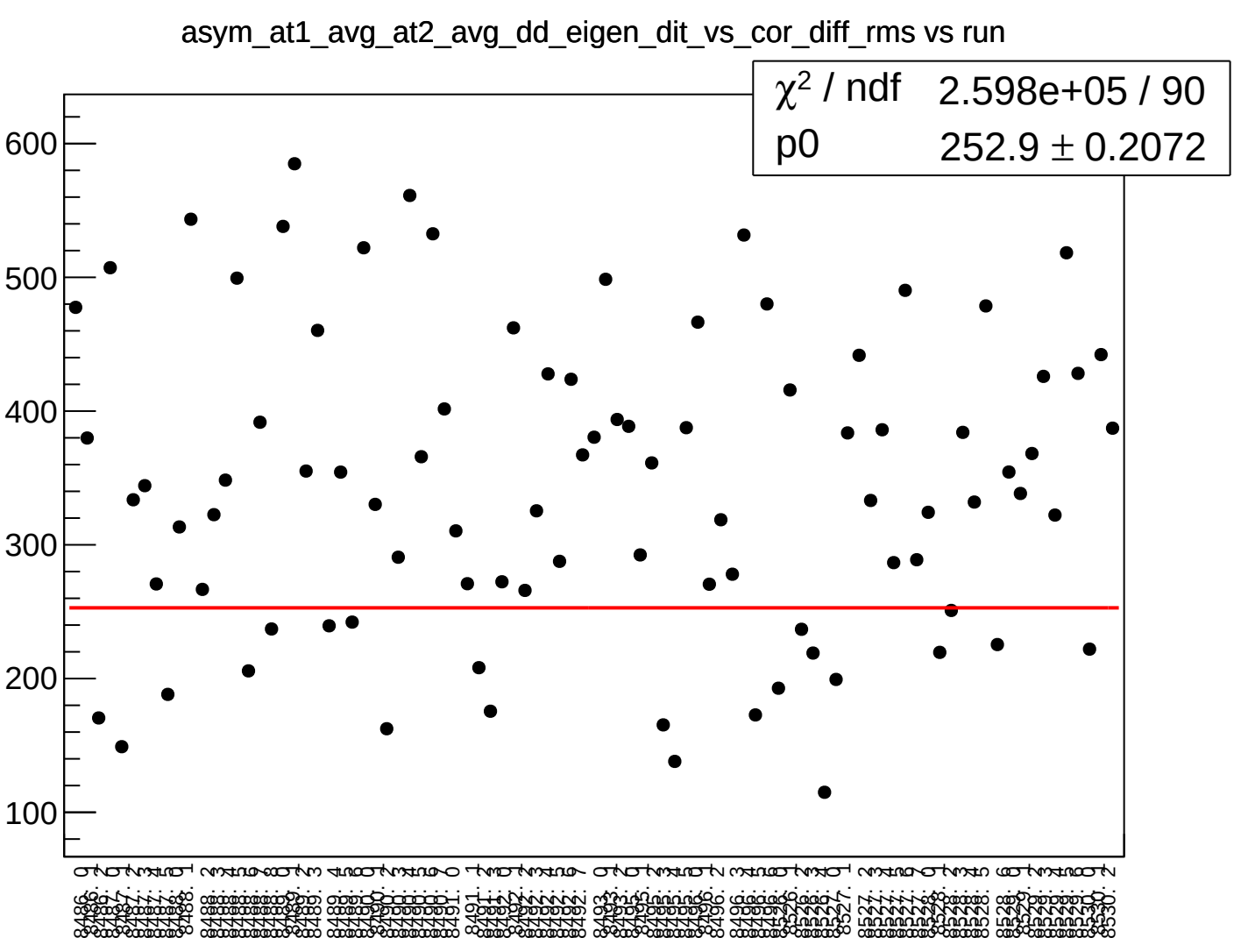

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.598e+05 / 90
p0 252.9 ± 0.2072
600
500
400
300
200
100

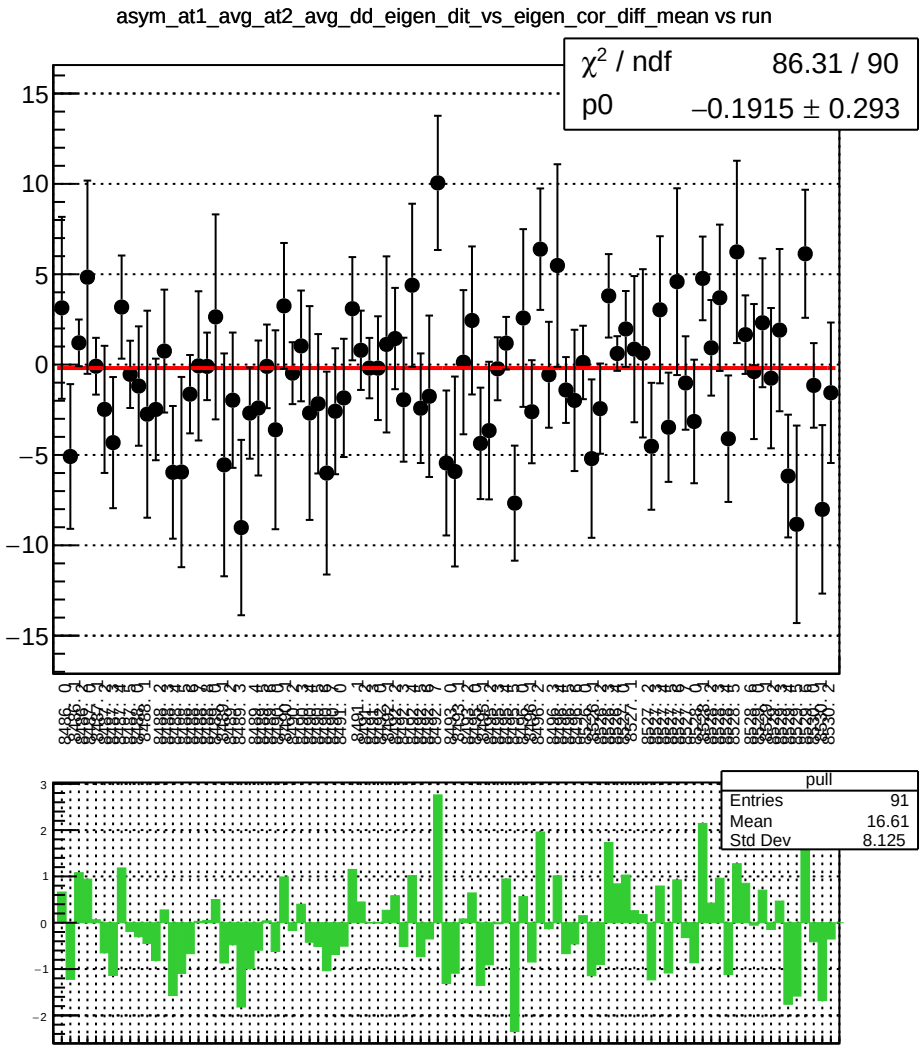

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.7 / 90
p0 −1.195e−06 ± 6.073e−07
0.2
0.1
0
−0.1
−0.2
pull
Entries 91
Mean 68.76
Std Dev 0
3
2
1
0
−1
−2
−3

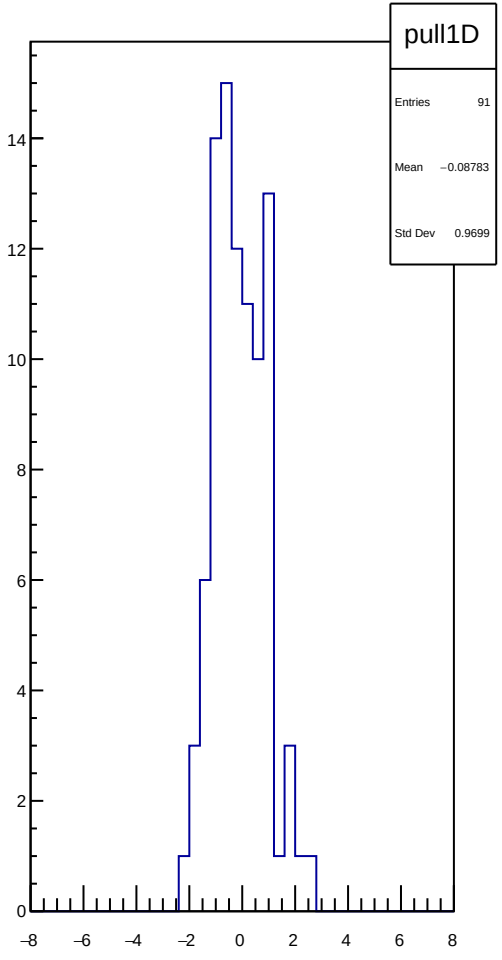

pull1D
Entries 91
Mean 0.06274
Std Dev 1.05
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

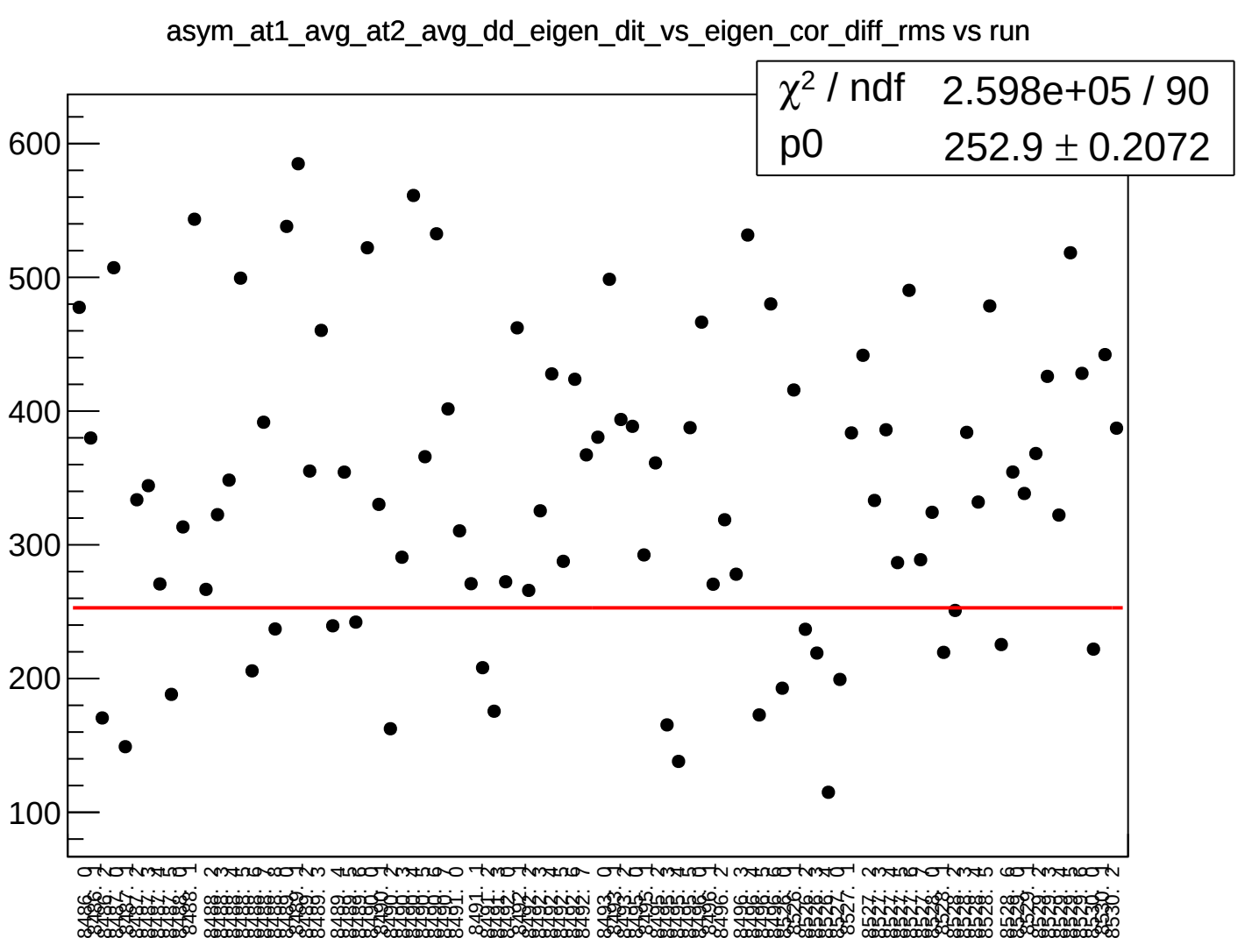

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.004e+05 / 90
p0 0.0004799 ± 4.294e−07
0.007
0.006
0.005
0.004
0.003
0.002
0.001

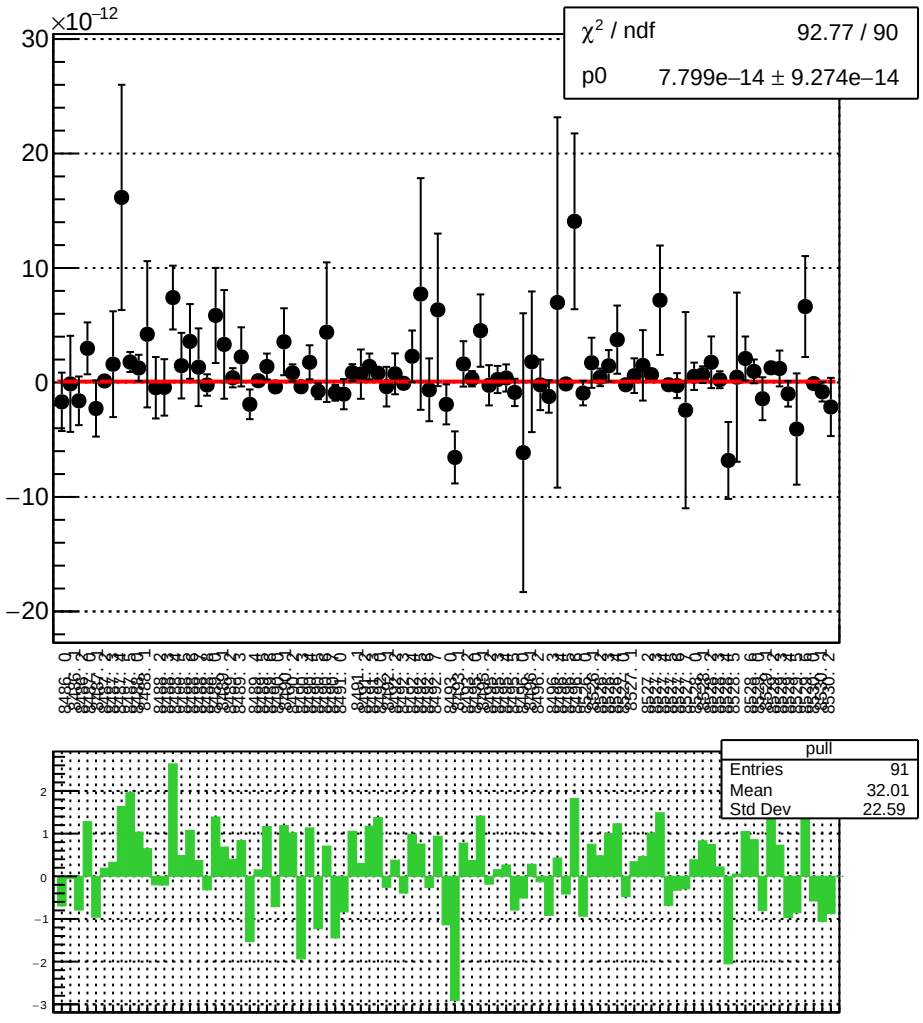

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.31 / 90
p0 −0.1915 ± 0.293
pull
Entries 91
Mean 16.61
Std Dev 8.125
pull1D
Entries 91
Mean −0.08783
Std Dev 0.9699

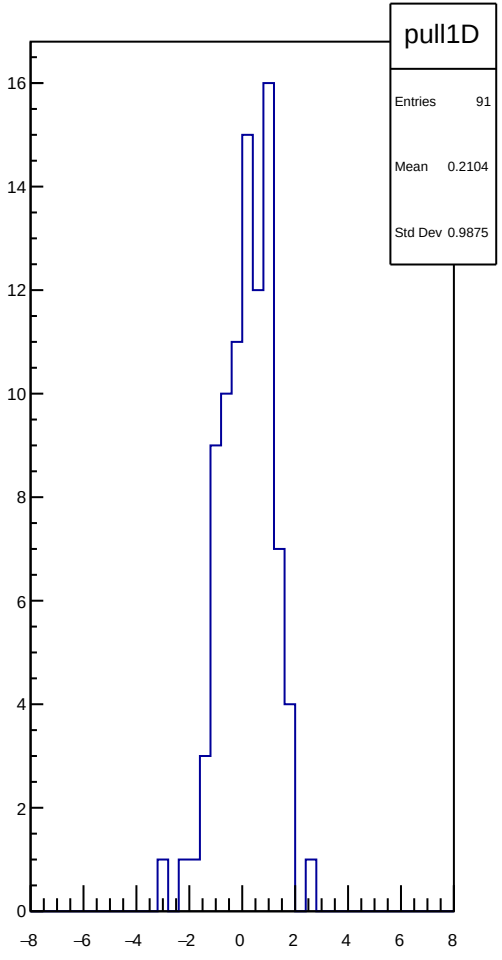

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.598e+05 / 90
p0 252.9 ± 0.2072
600
500
400
300
200
100

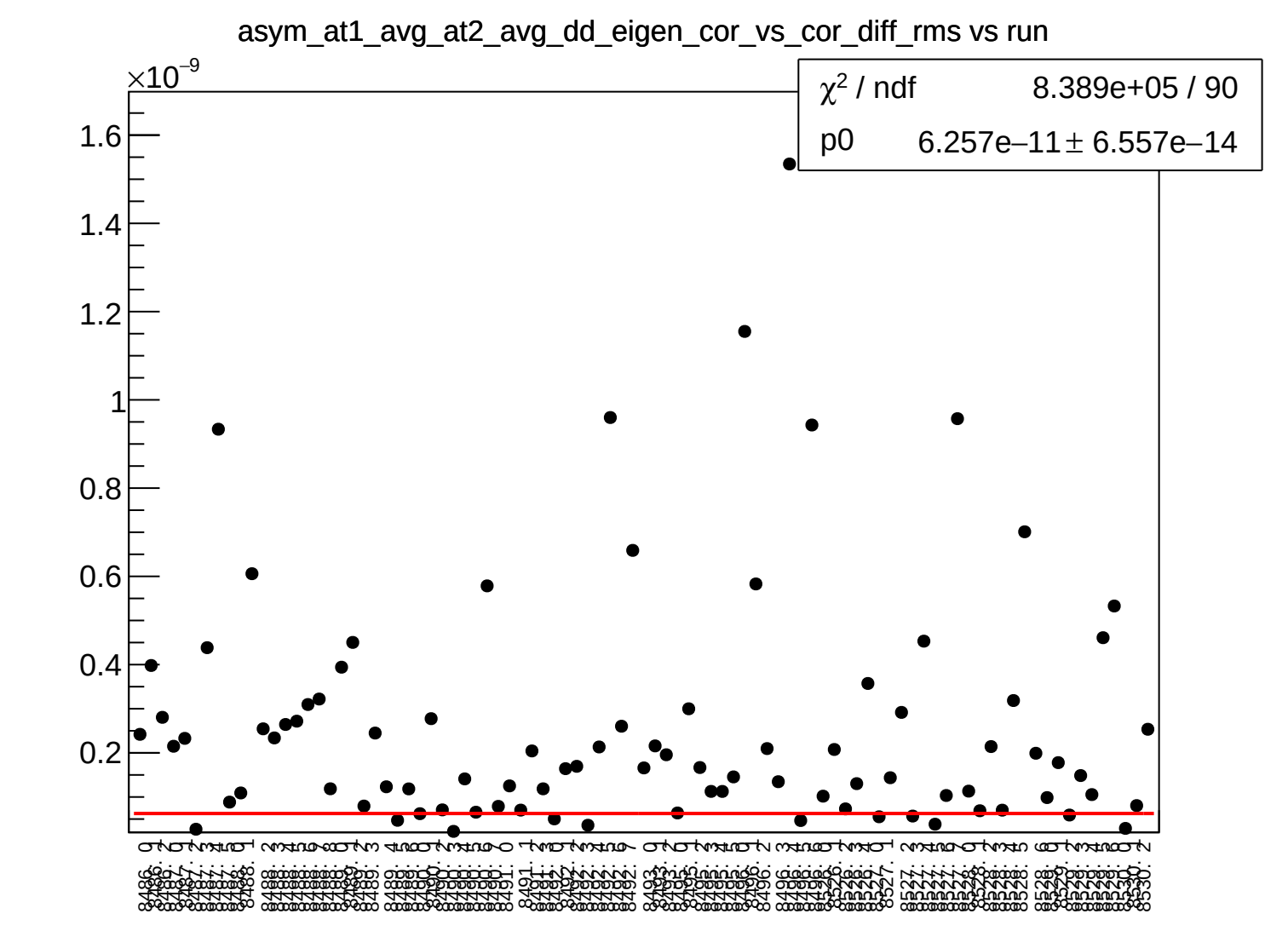

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.31 / 90
p0 −0.1915 ± 0.293
pull
Entries 91
Mean 16.61
Std Dev 8.125

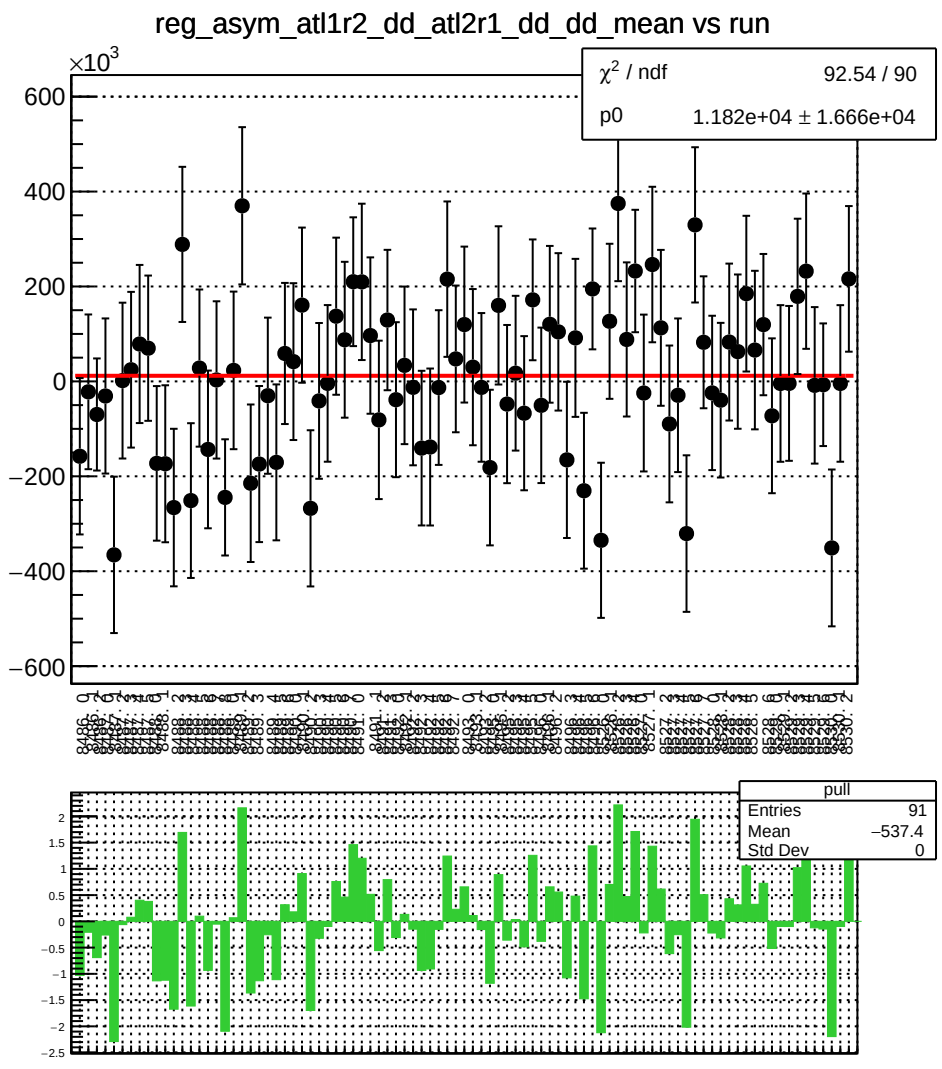

pull1D
Entries 91
Mean −0.08783
Std Dev 0.9699

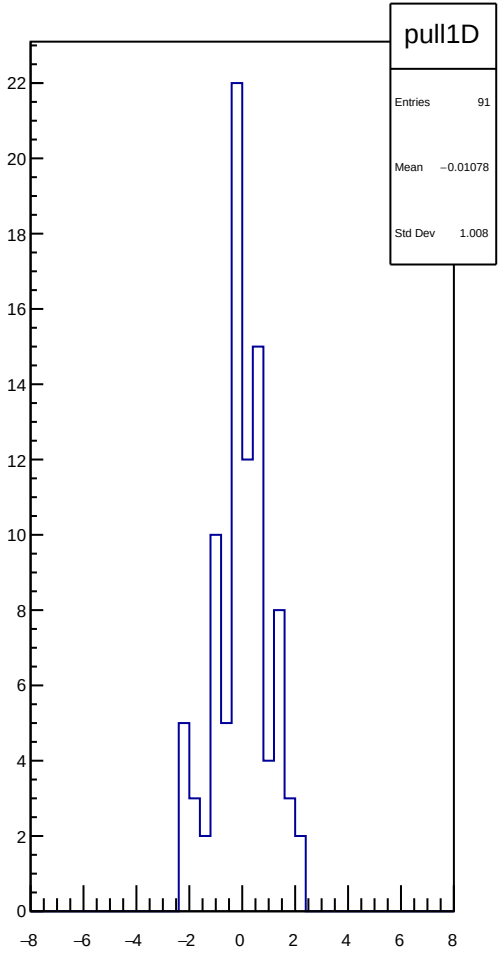

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.598e+05 / 90
p0 252.9 ± 0.2072
600
500
400
300
200
100

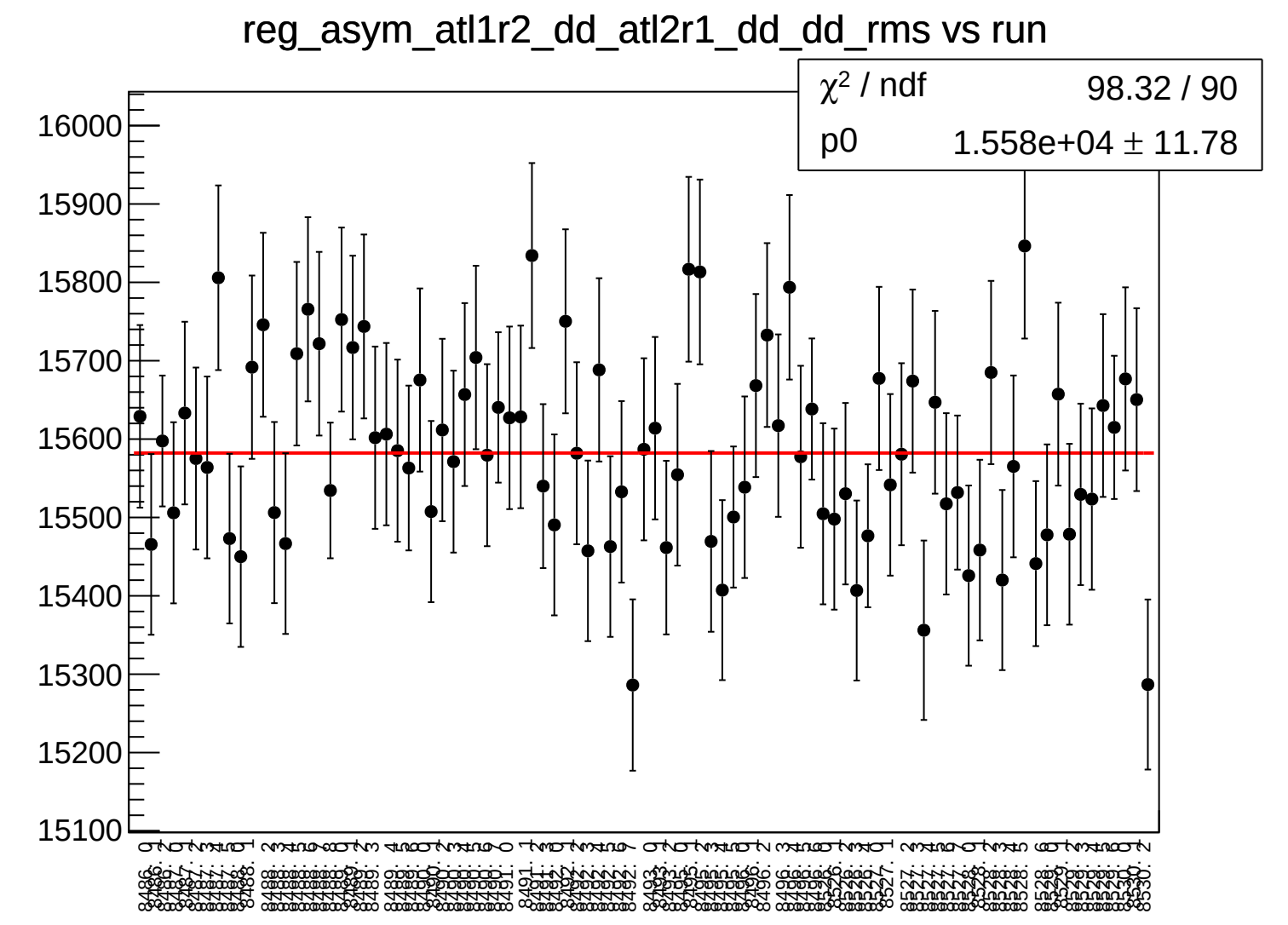

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.77 / 90
p0 7.799e−14 ± 9.274e−14
pull
Entries 91
Mean 32.01
Std Dev 22.59

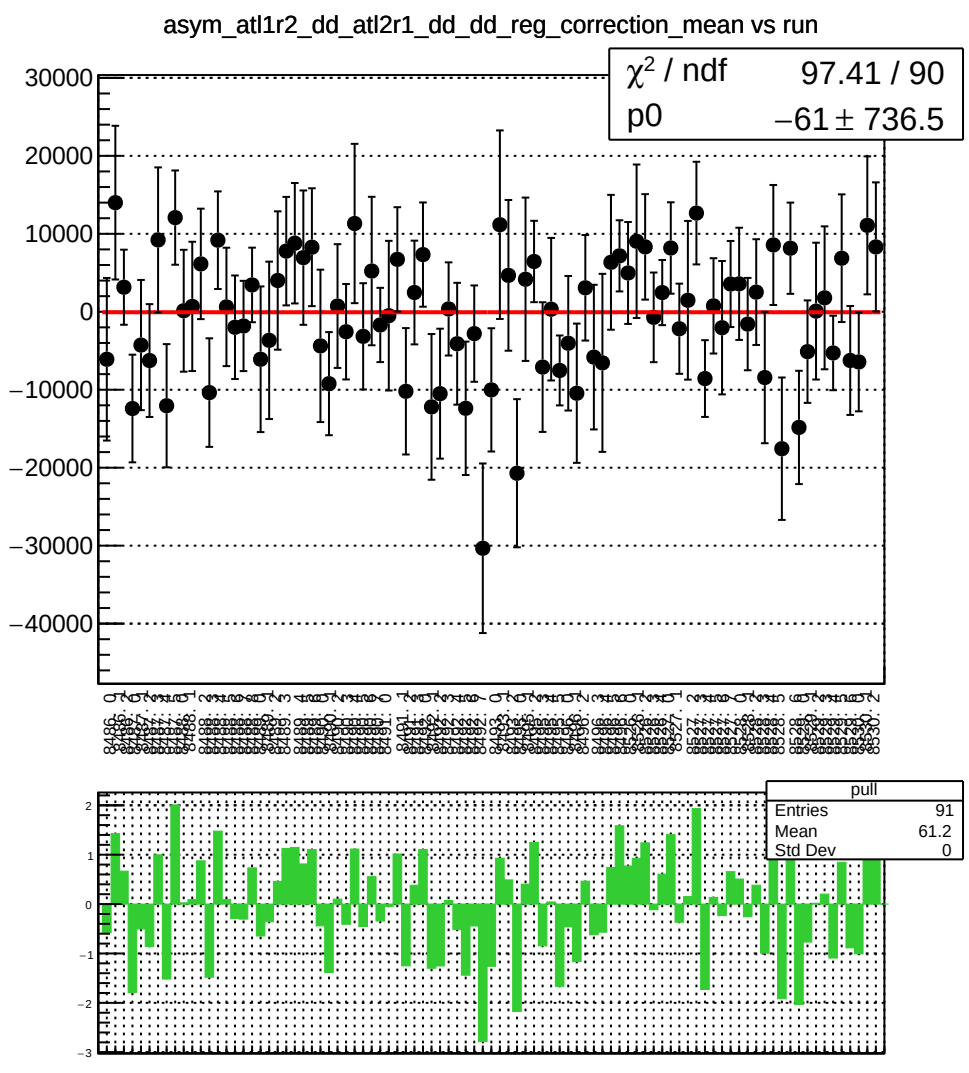

pull1D
Entries 91
Mean 0.2104
Std Dev 0.9875

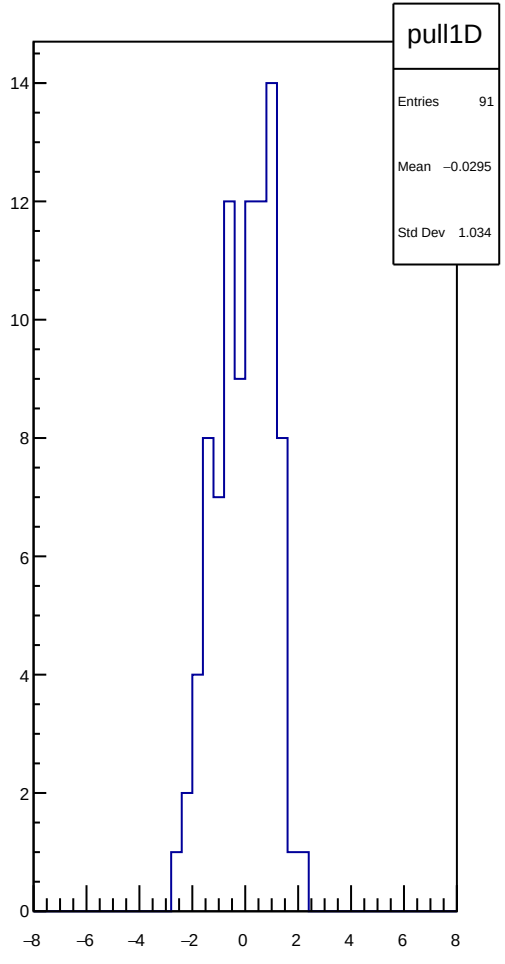

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.389e+05 / 90
p0 6.257e−11 ± 6.557e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

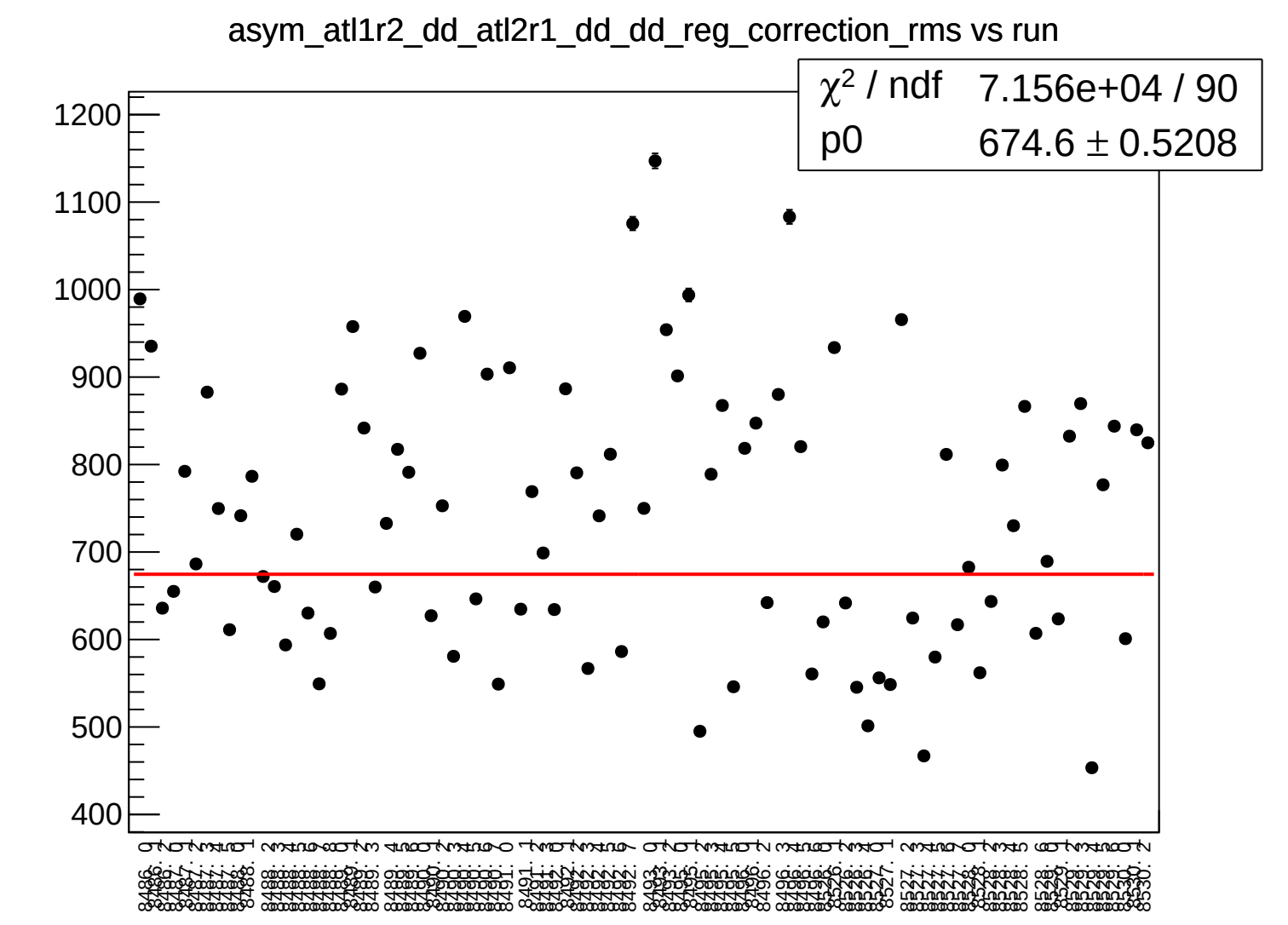

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 92.54 / 90
p0 1.182e+04 ± 1.666e+04
pull
Entries 91
Mean −537.4
Std Dev 0

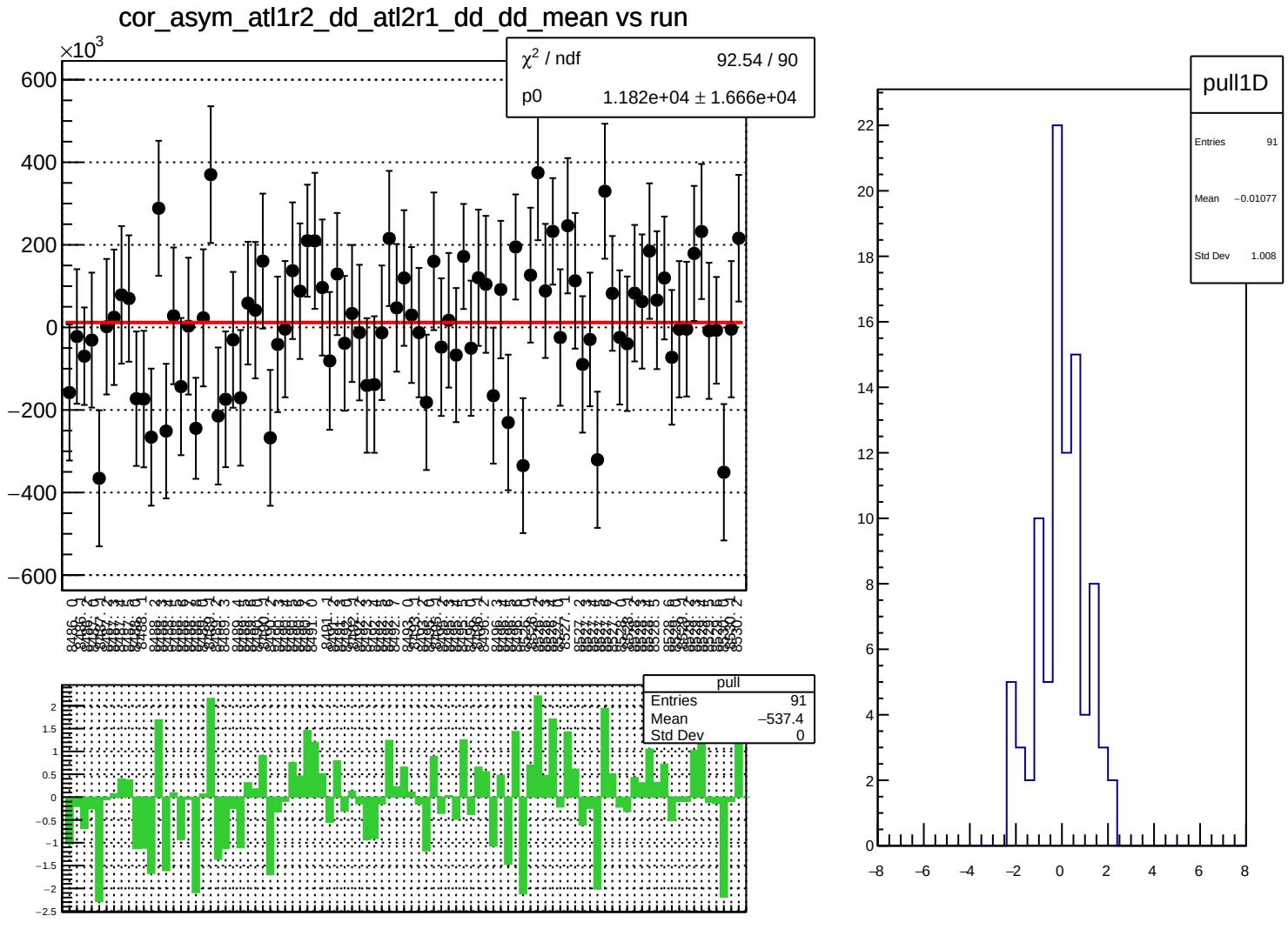

pull1D
Entries 91
Mean −0.01078
Std Dev 1.008

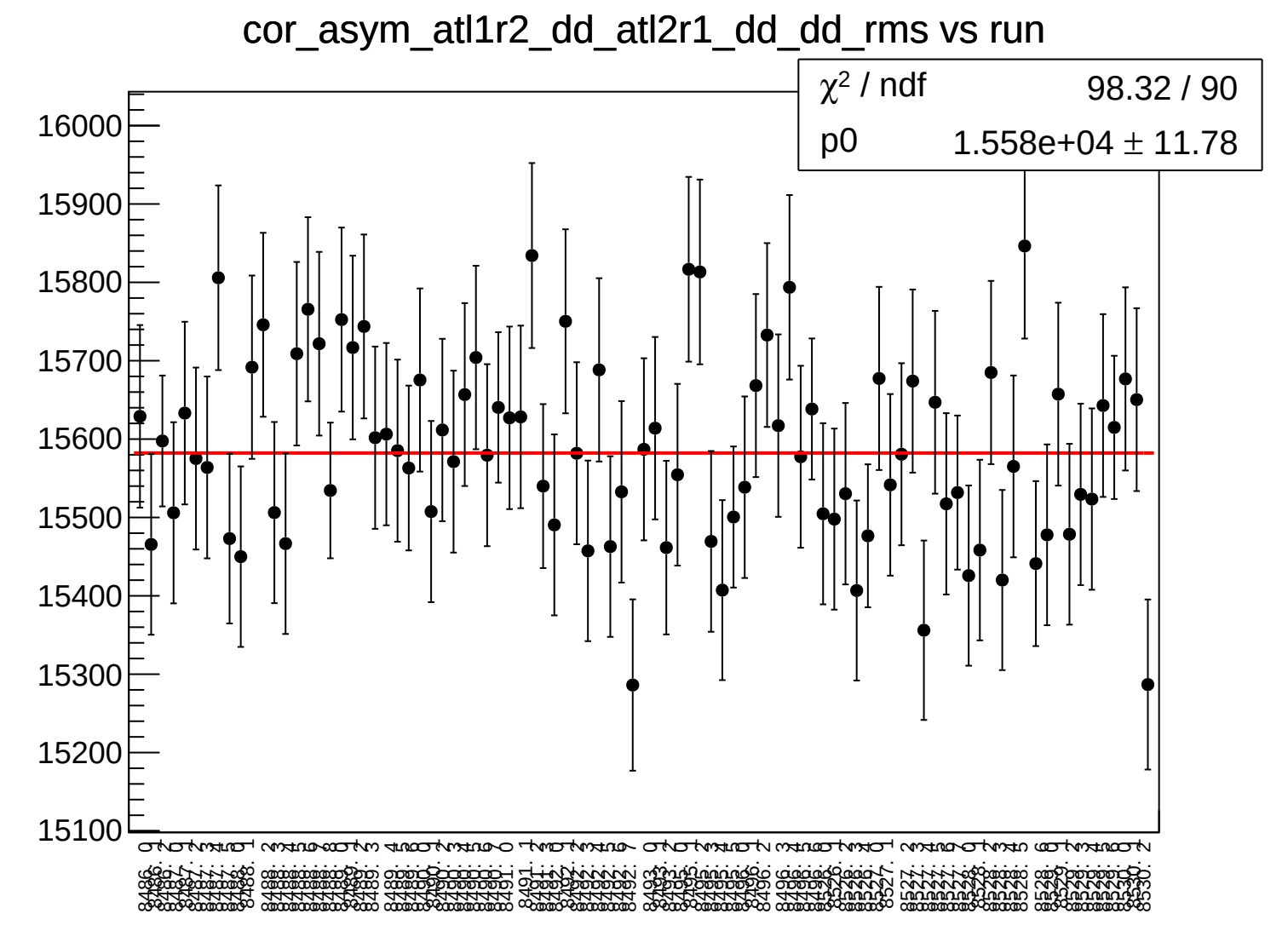

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 98.32 / 90
p0 1.558e+04 ± 11.78
16000
15900
15800
15700
15600
15500
15400
15300
15200
15100

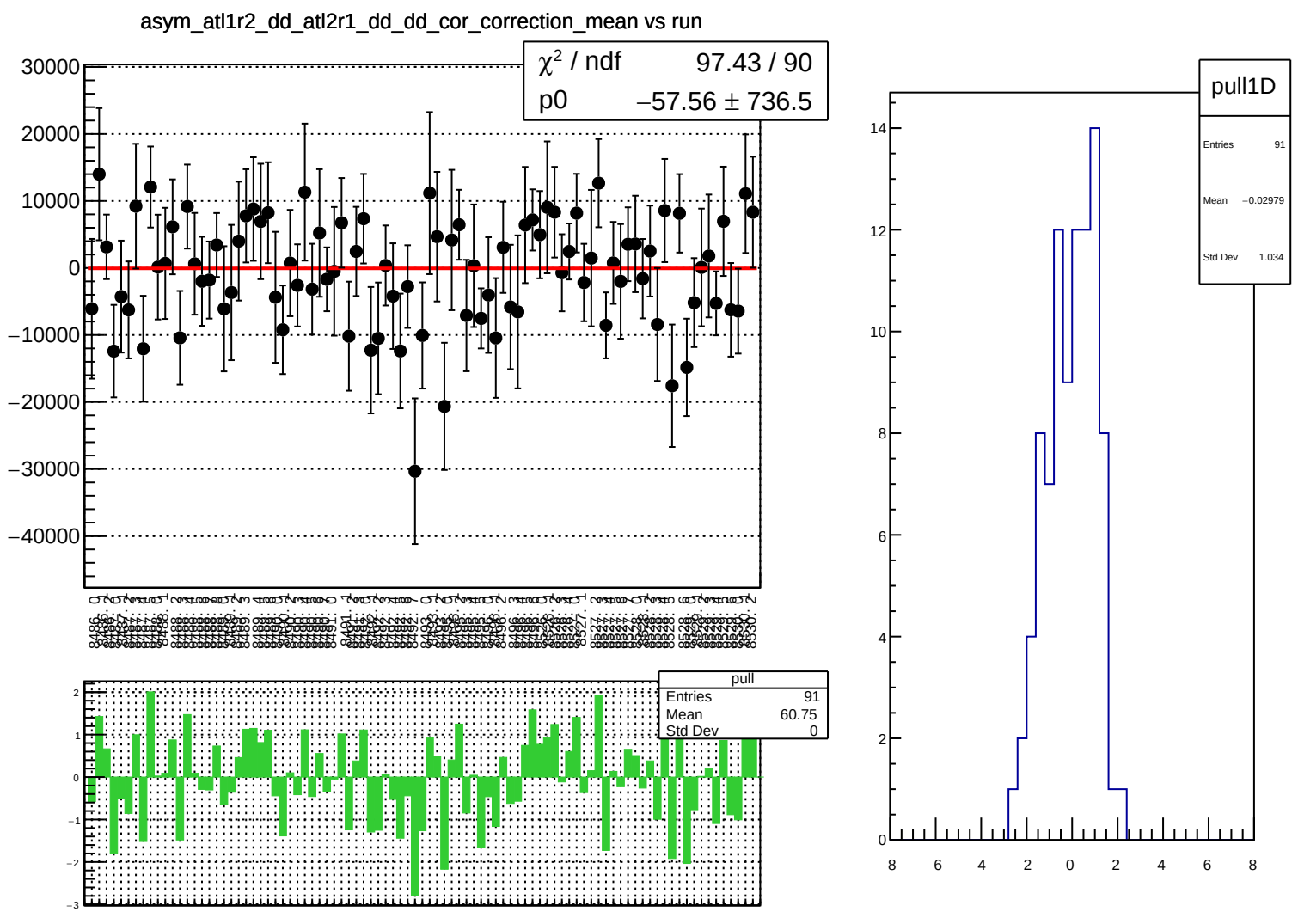

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
χ² / ndf 97.41 / 90
p0 −61 ± 736.5
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean 61.2
Std Dev 0
2
1
0
−1
−2
−3

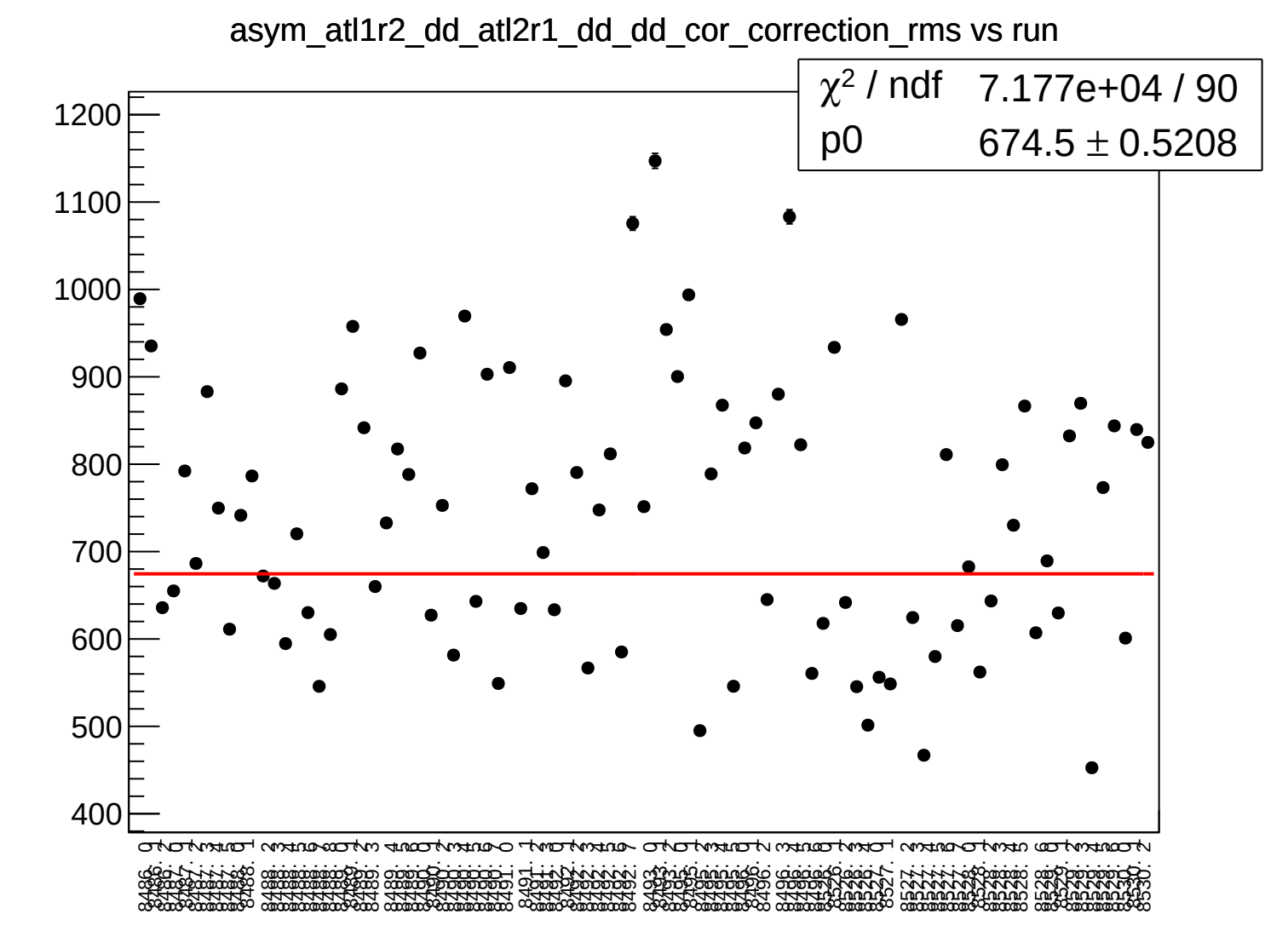

pull1D
Entries 91
Mean −0.0295
Std Dev 1.034
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

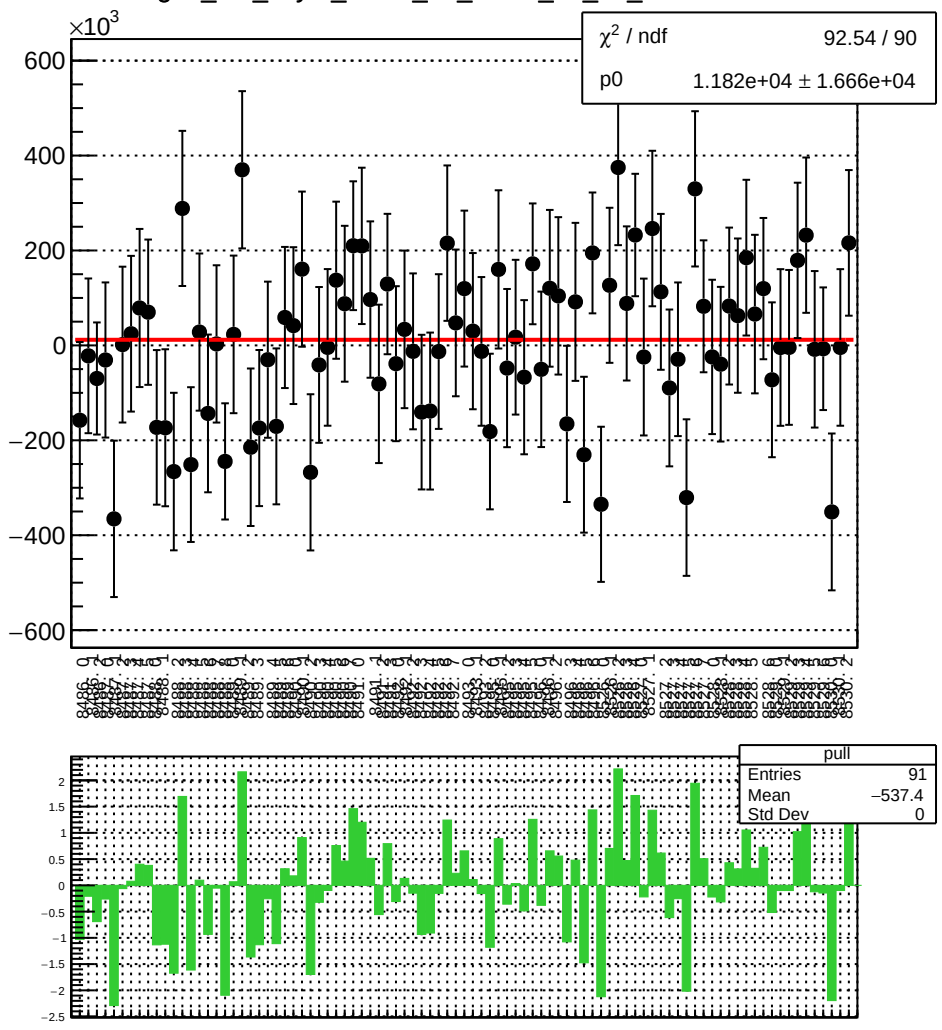

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 7.156e+04 / 90
p0 674.6 ± 0.5208
1200
1100
1000
900
800
700
600
500
400

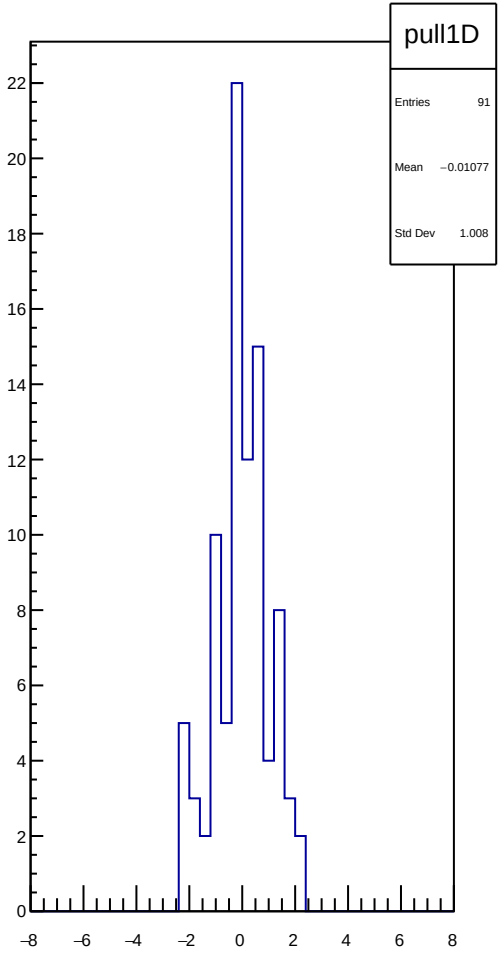

cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 92.54 / 90
p0 1.182e+04 ± 1.666e+04
pull
Entries 91
Mean −537.4
Std Dev 0
pull1D
Entries 91
Mean −0.01077
Std Dev 1.008

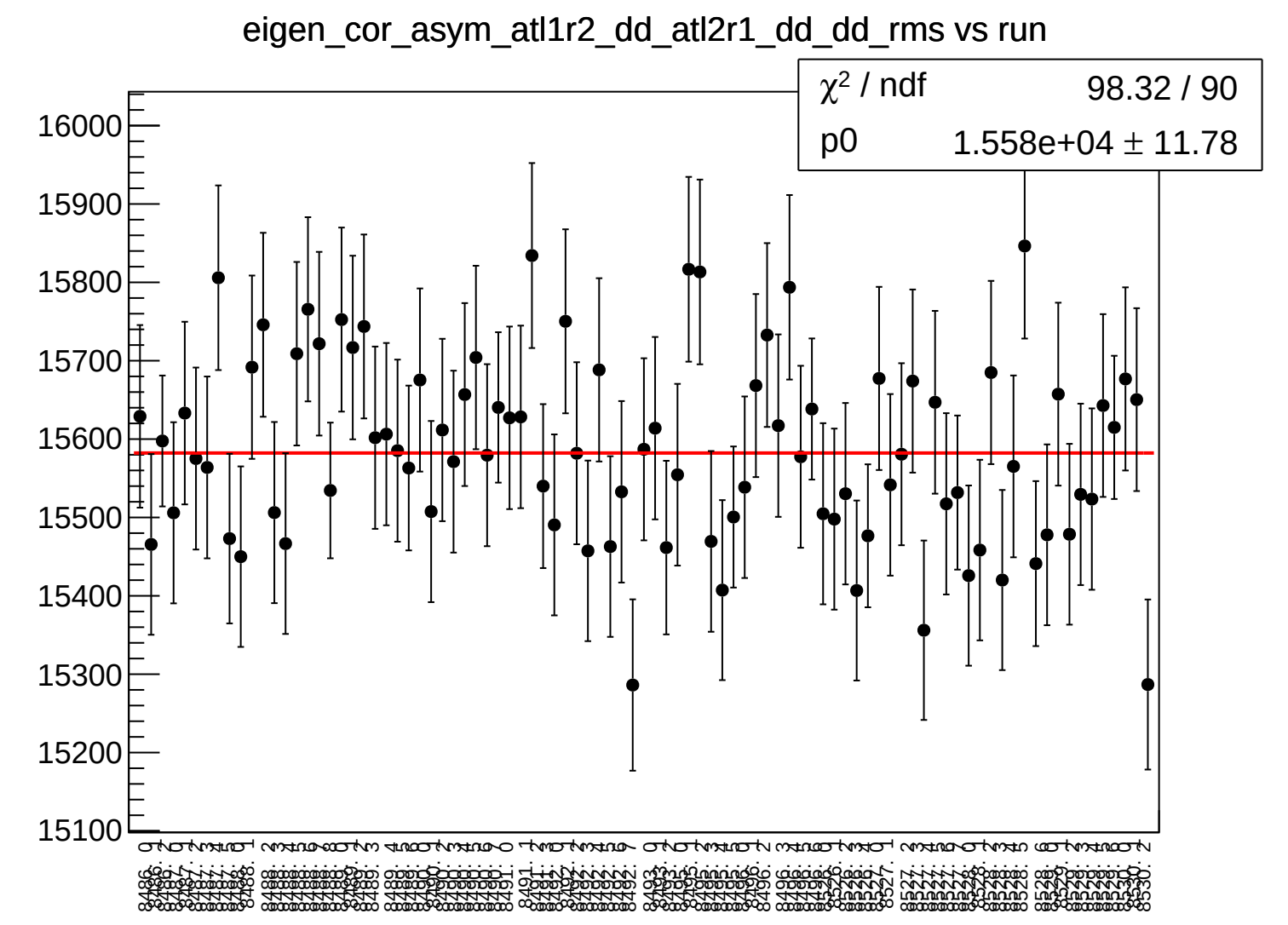

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 98.32 / 90
p0 1.558e+04 ± 11.78
16000
15900
15800
15700
15600
15500
15400
15300
15200
15100

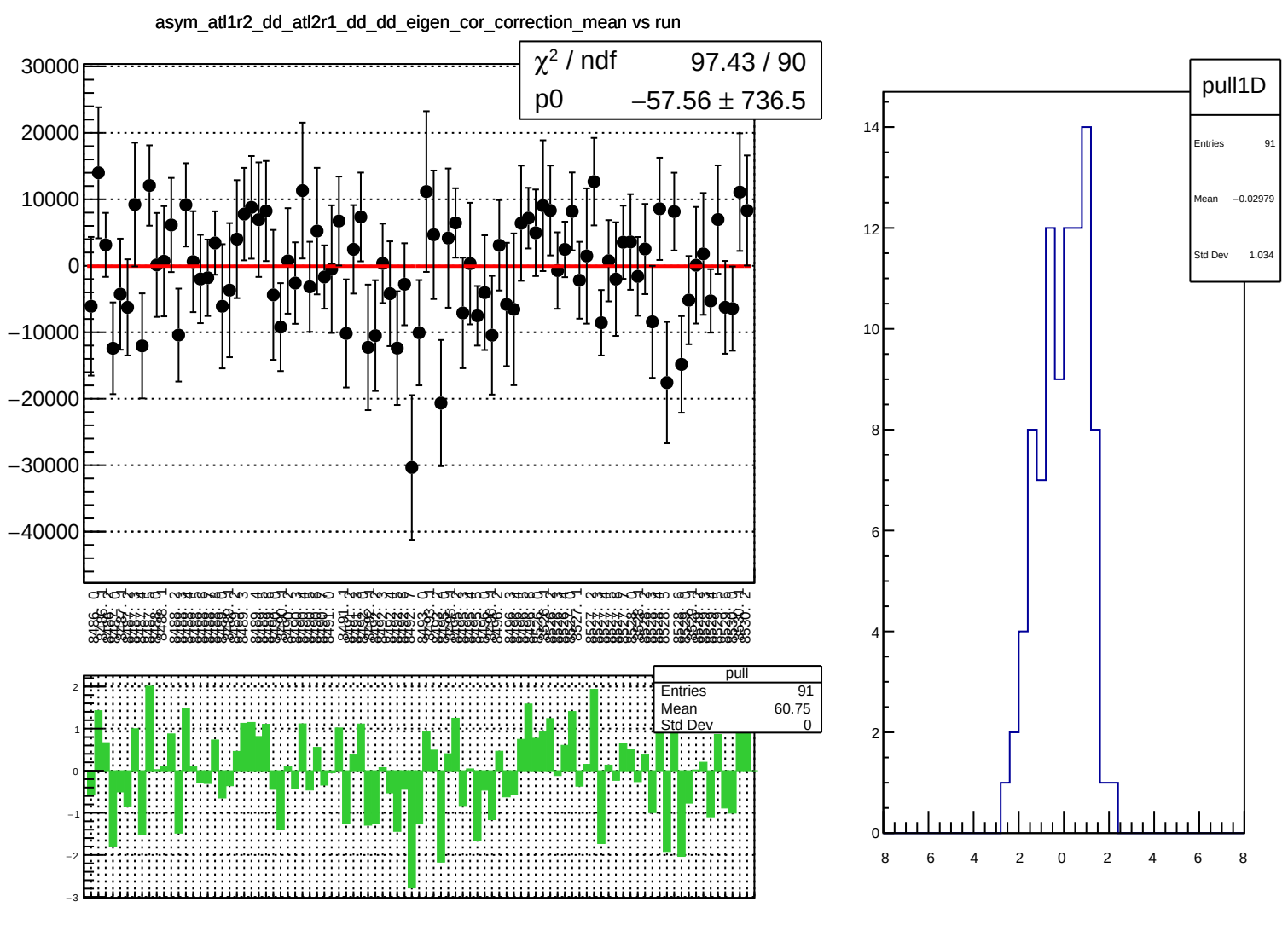

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
χ² / ndf 97.43 / 90
p0 −57.56 ± 736.5
pull
Entries 91
Mean 60.75
Std Dev 0
pull1D
Entries 91
Mean −0.02979
Std Dev 1.034

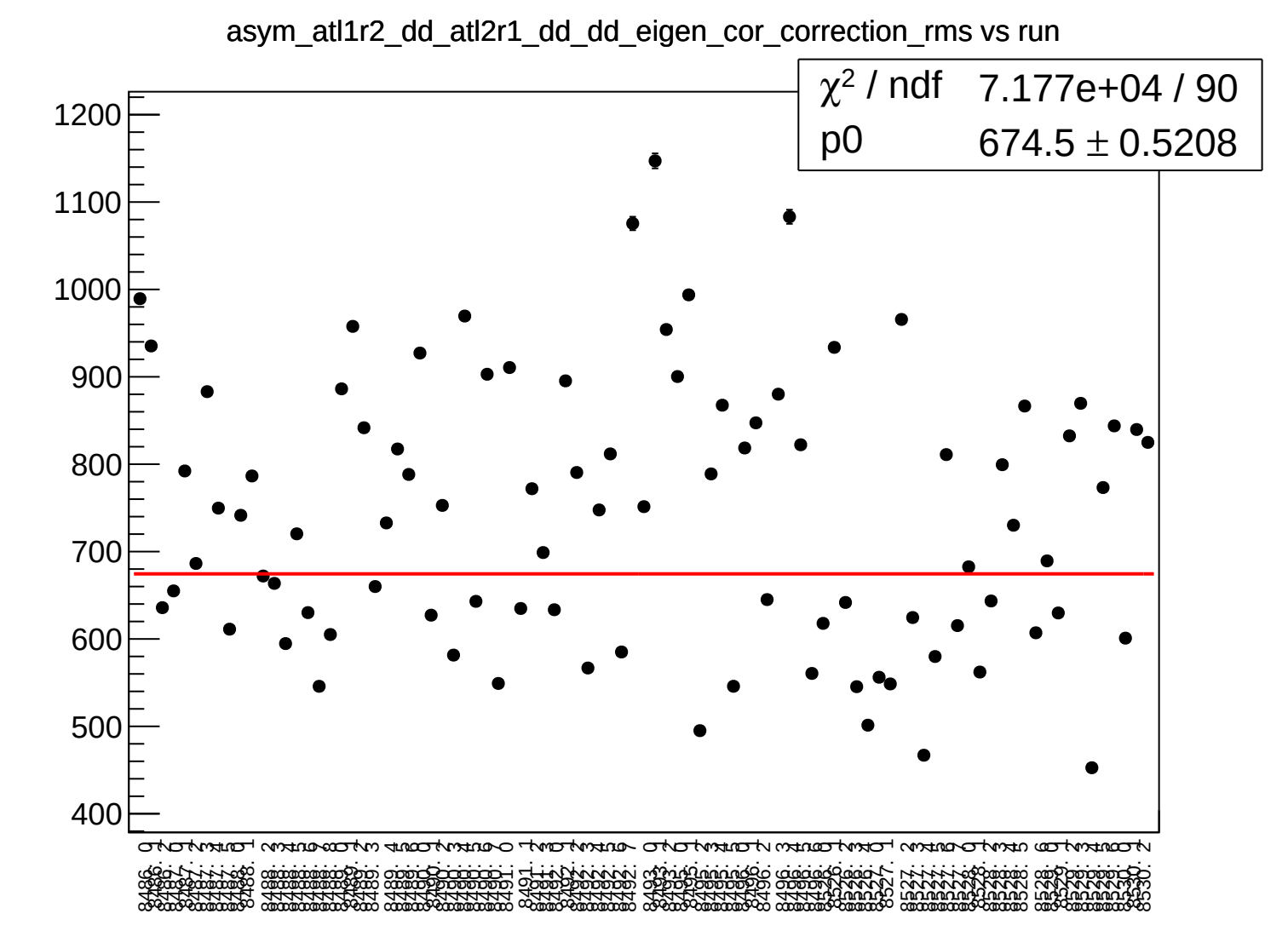

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 7.177e+04 / 90
p0 674.5 ± 0.5208
1200
1100
1000
900
800
700
600
500
400

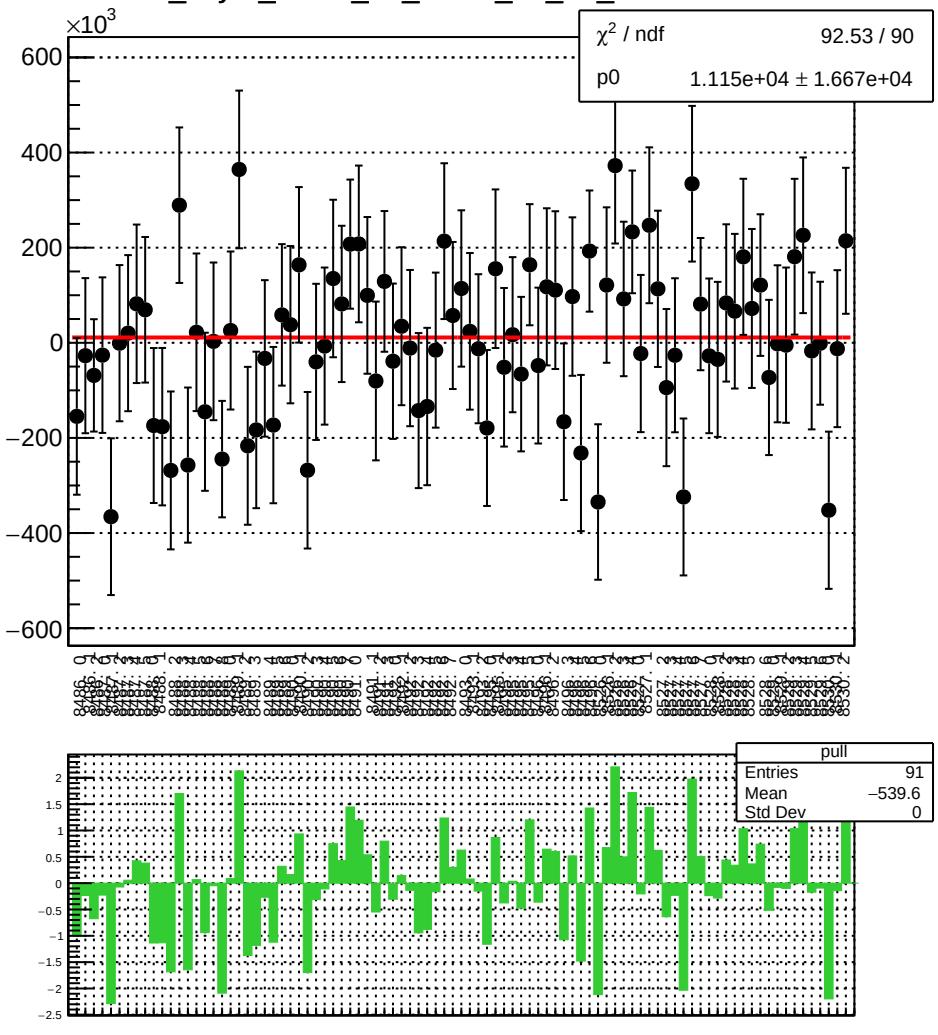

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 92.54 / 90
p0 1.182e+04 ± 1.666e+04
pull
Entries 91
Mean −537.4
Std Dev 0

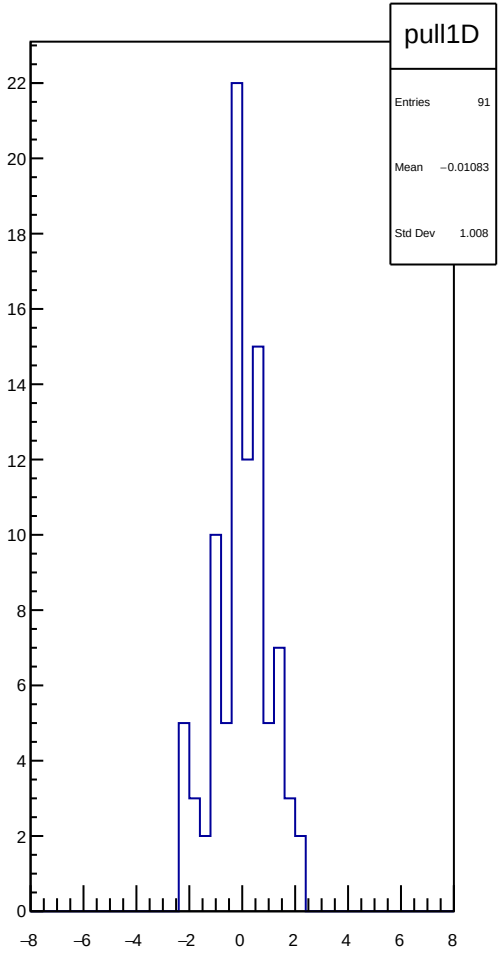

pull1D
Entries 91
Mean −0.01077
Std Dev 1.008

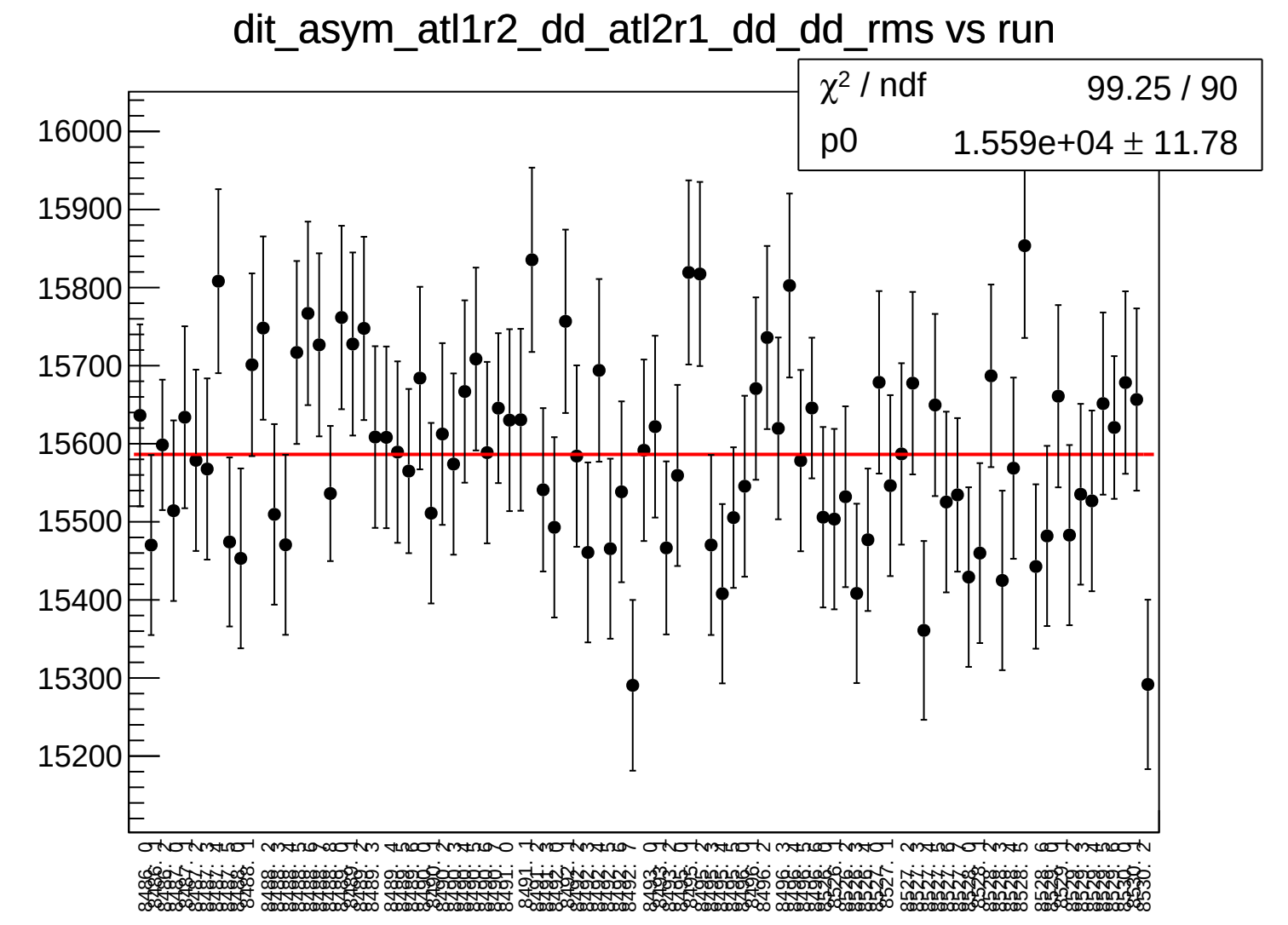

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 98.32 / 90
p0 1.558e+04 ± 11.78
16000
15900
15800
15700
15600
15500
15400
15300
15200
15100

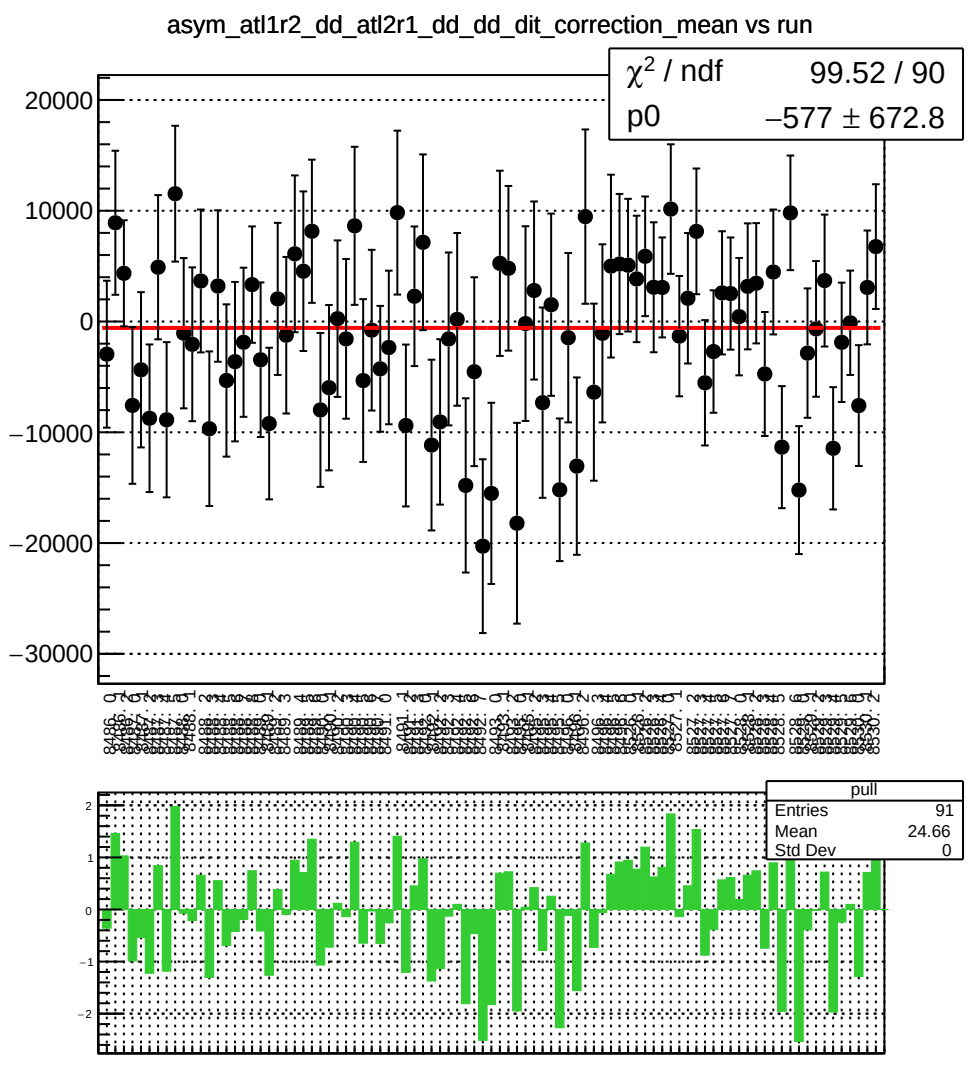

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 97.43 / 90
p0 −57.56 ± 736.5
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean 60.75
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean −0.02979
Std Dev 1.034
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

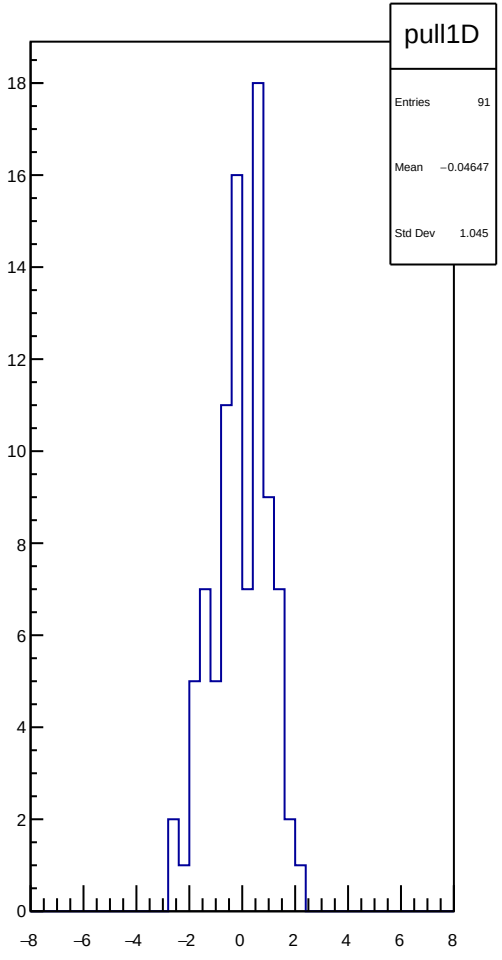

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 7.177e+04 / 90
p0 674.5 ± 0.5208
1200
1100
1000
900
800
700
600
500
400

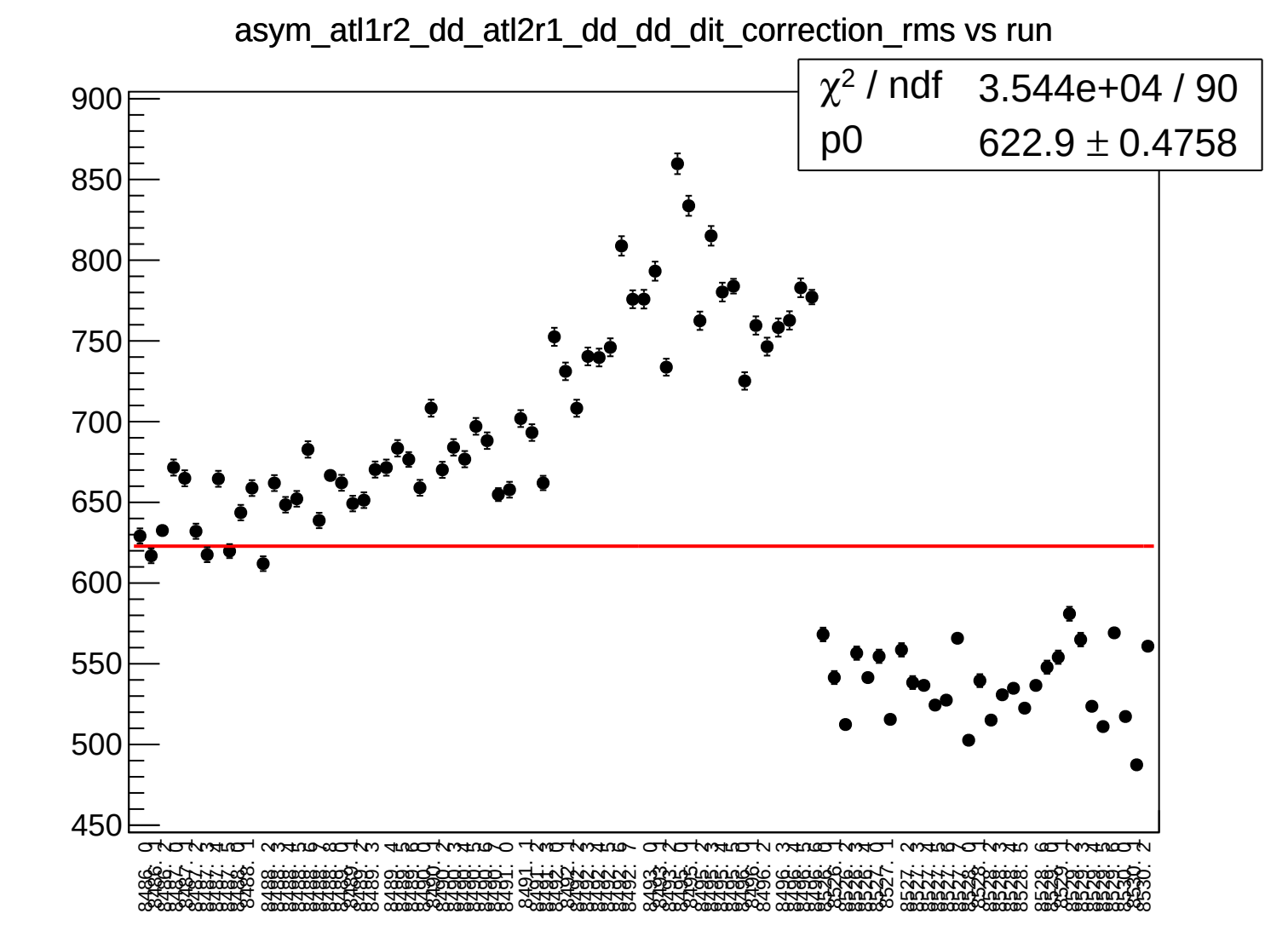

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 92.53 / 90
p0 1.115e+04 ± 1.667e+04
pull
Entries 91
Mean −539.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

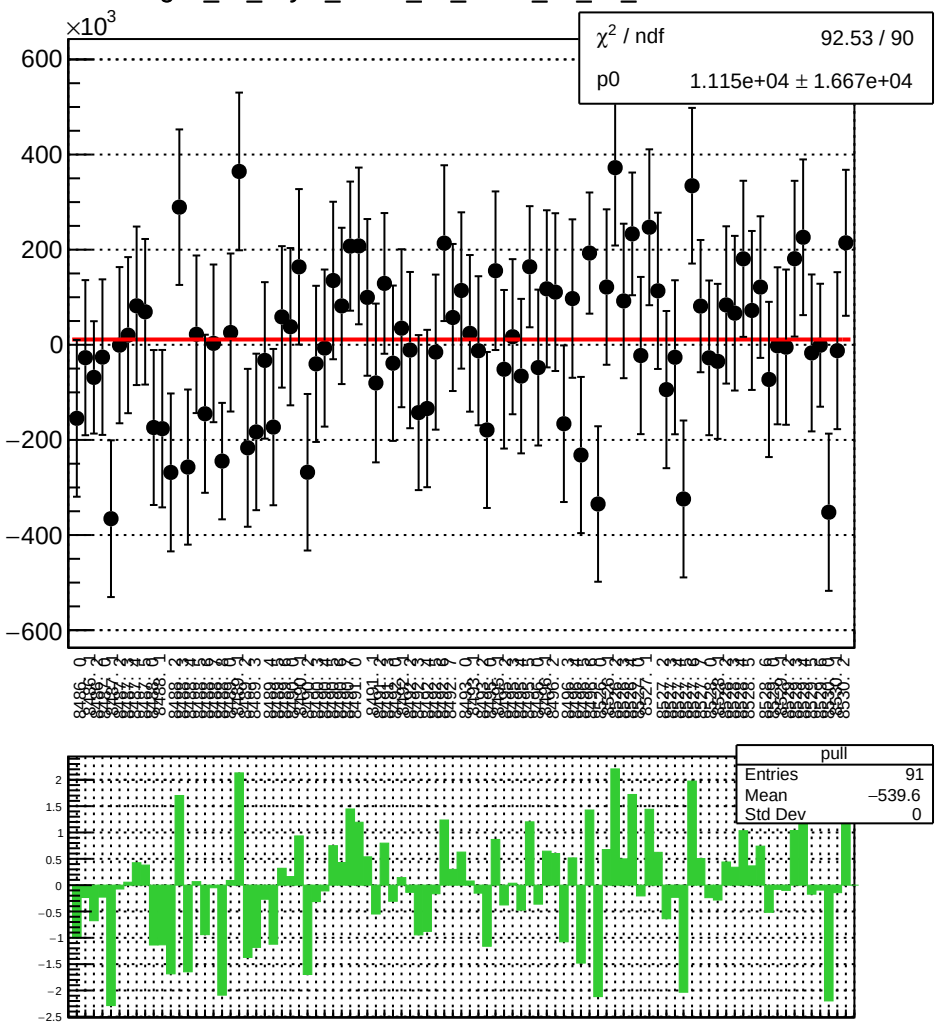

pull1D
Entries 91
Mean −0.01083
Std Dev 1.008
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

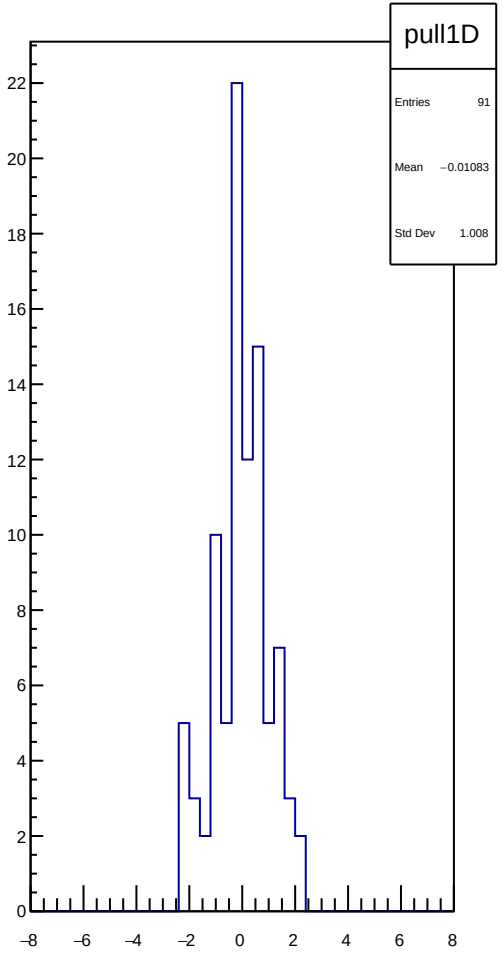

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 99.25 / 90
p0 1.559e+04 ± 11.78
16000
15900
15800
15700
15600
15500
15400
15300
15200

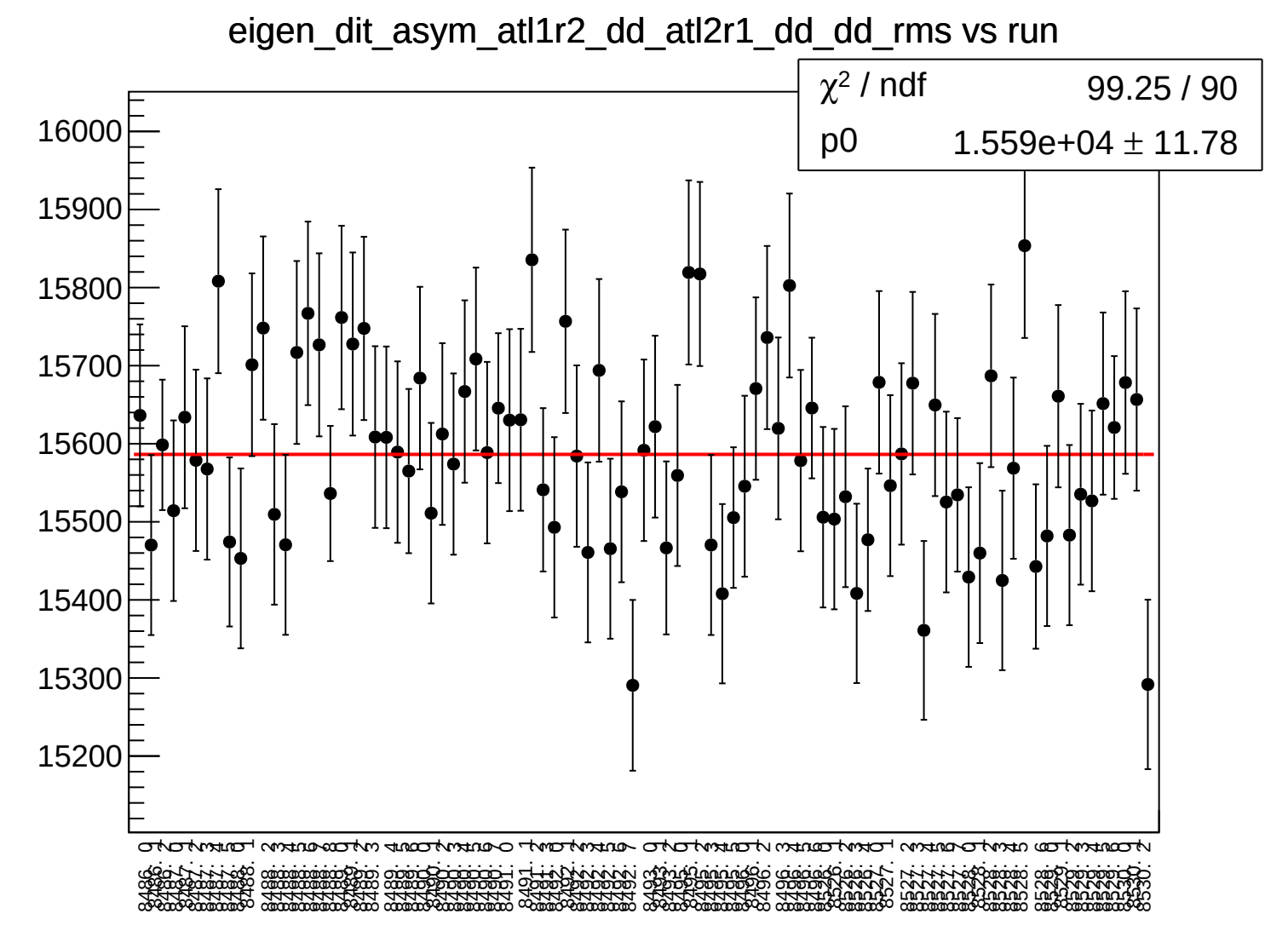

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
χ² / ndf 99.52 / 90
p0 −577 ± 672.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 24.66
Std Dev 0
2
1
0
−1
−2

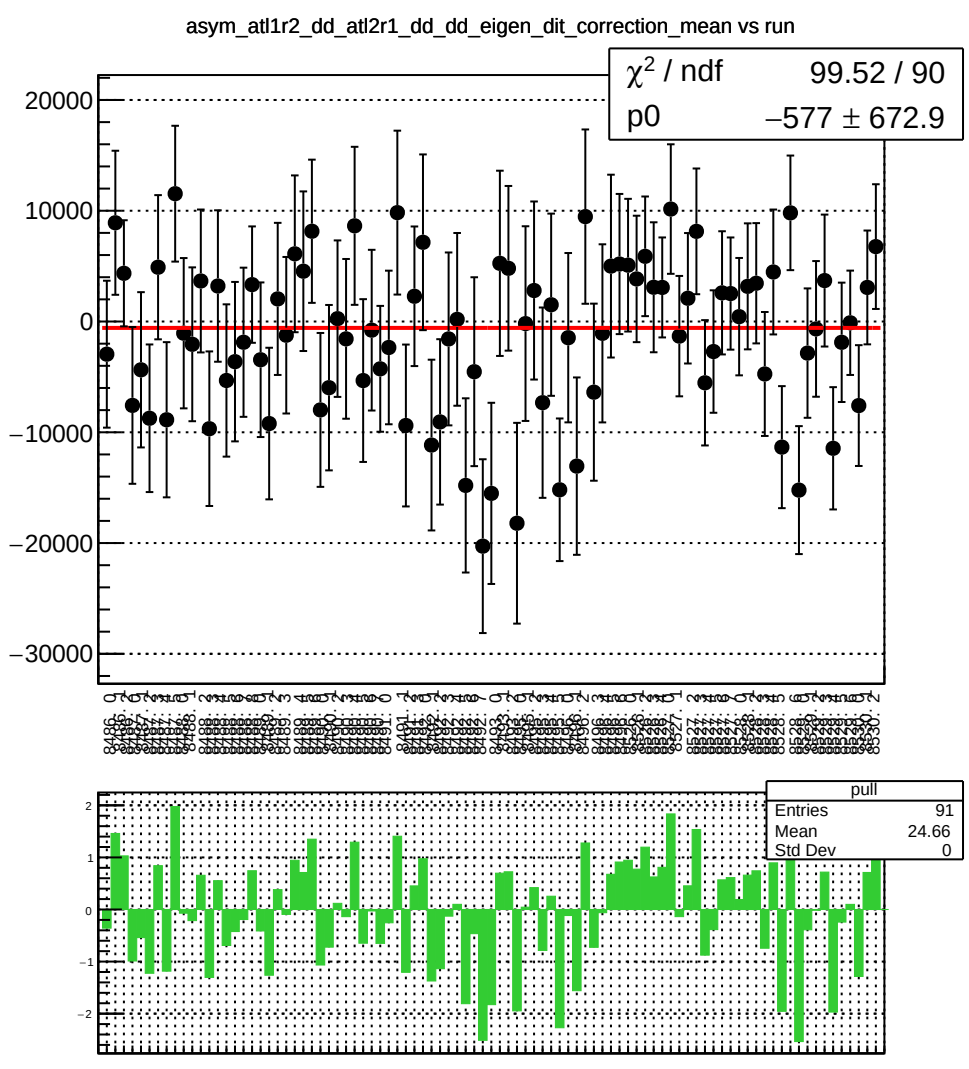

pull1D
Entries 91
Mean −0.04647
Std Dev 1.045
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

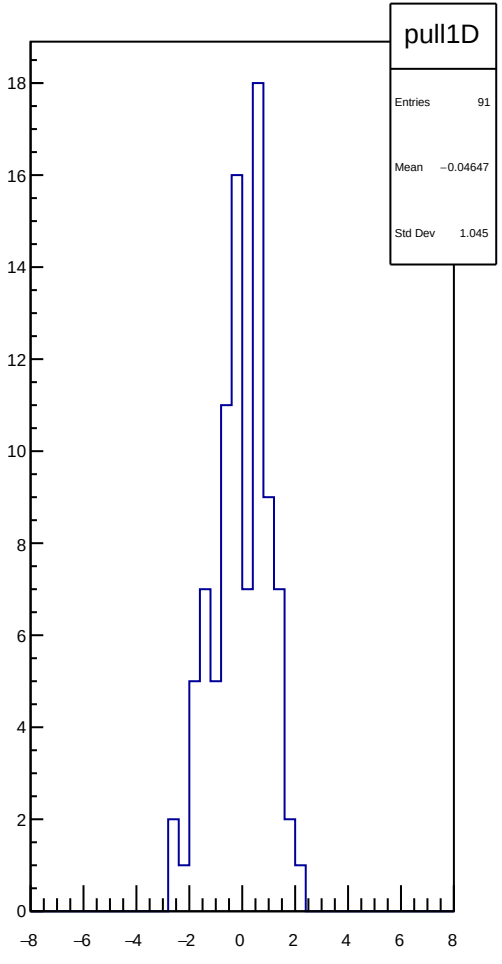

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 3.544e+04 / 90
p0 622.9 ± 0.4758
900
850
800
750
700
650
600
550
500
450

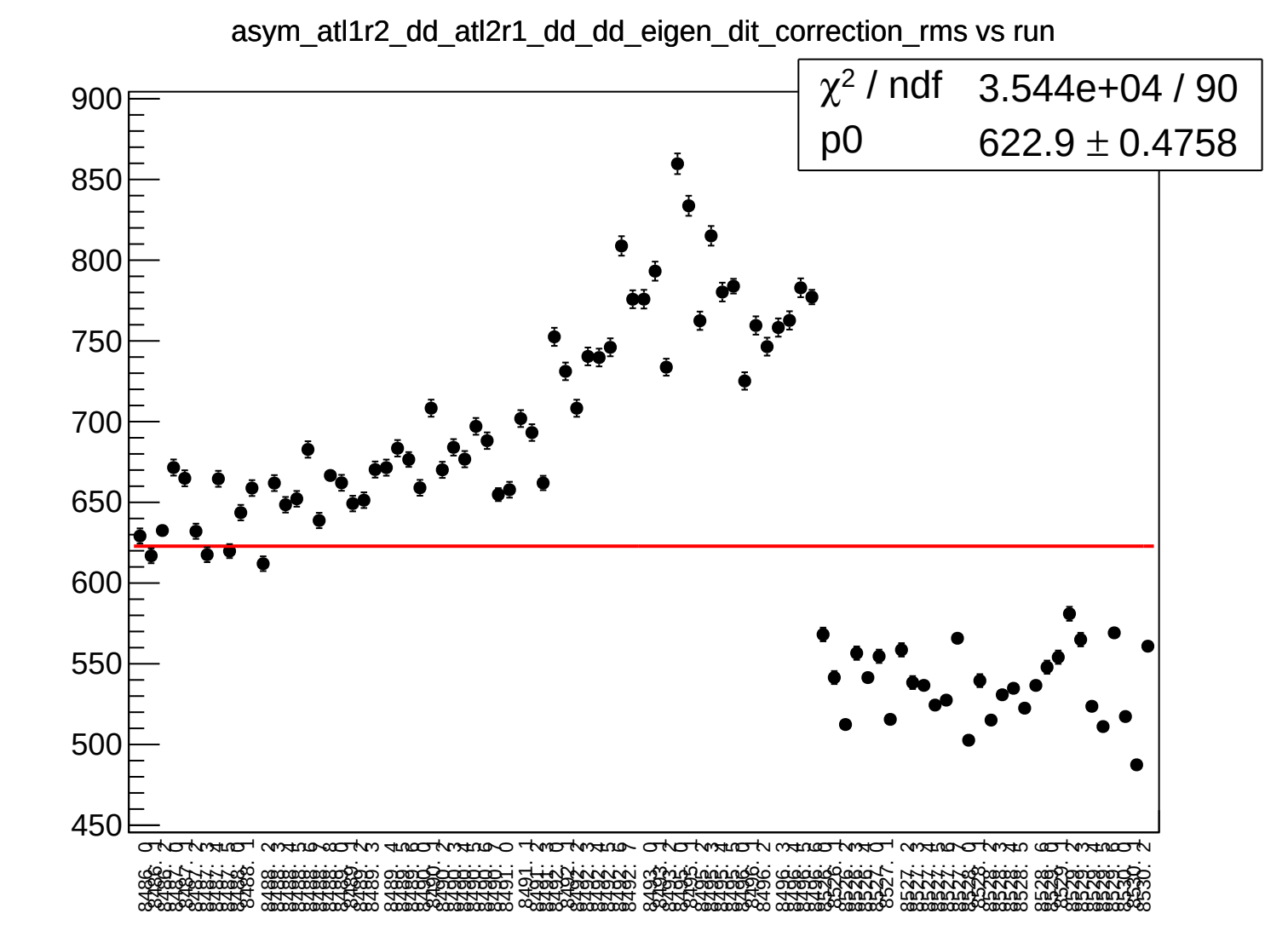

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 92.53 / 90
p0 1.115e+04 ± 1.667e+04
pull
Entries 91
Mean −539.6
Std Dev 0

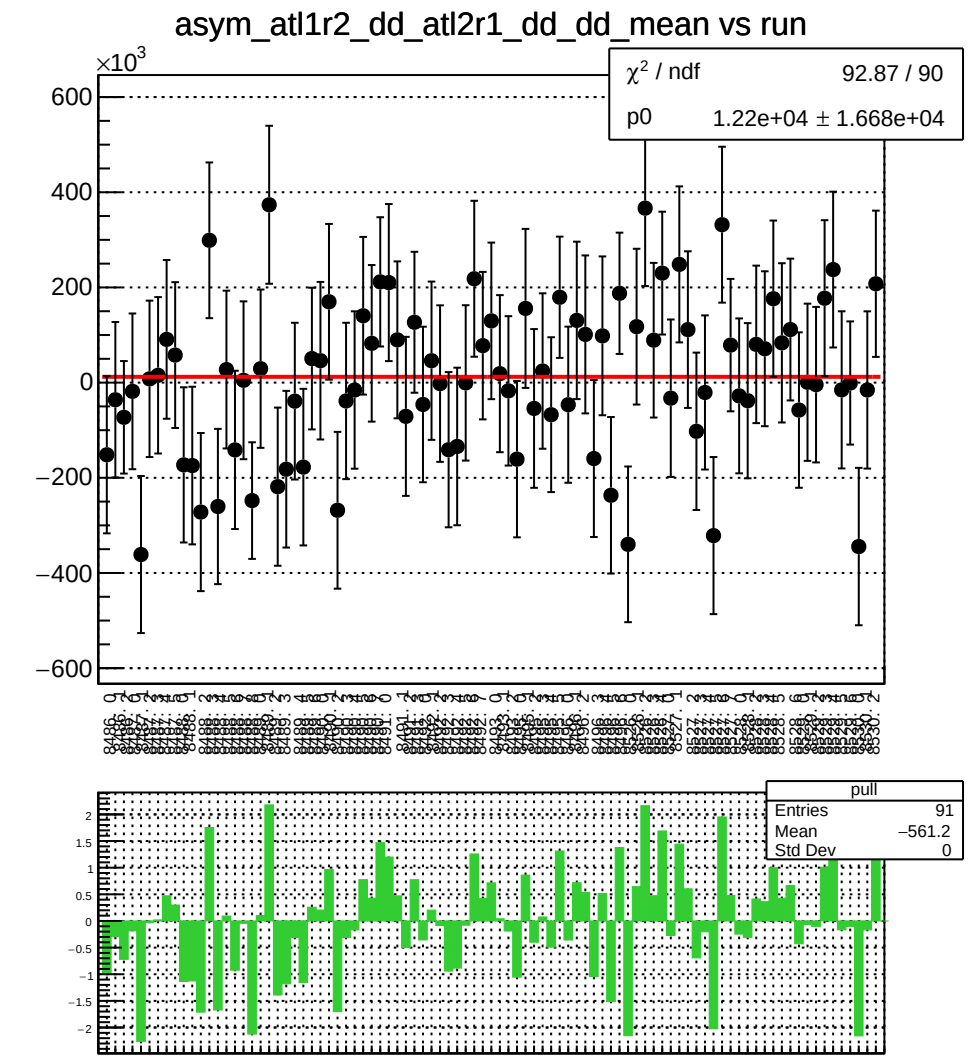

pull1D
Entries 91
Mean −0.01083
Std Dev 1.008

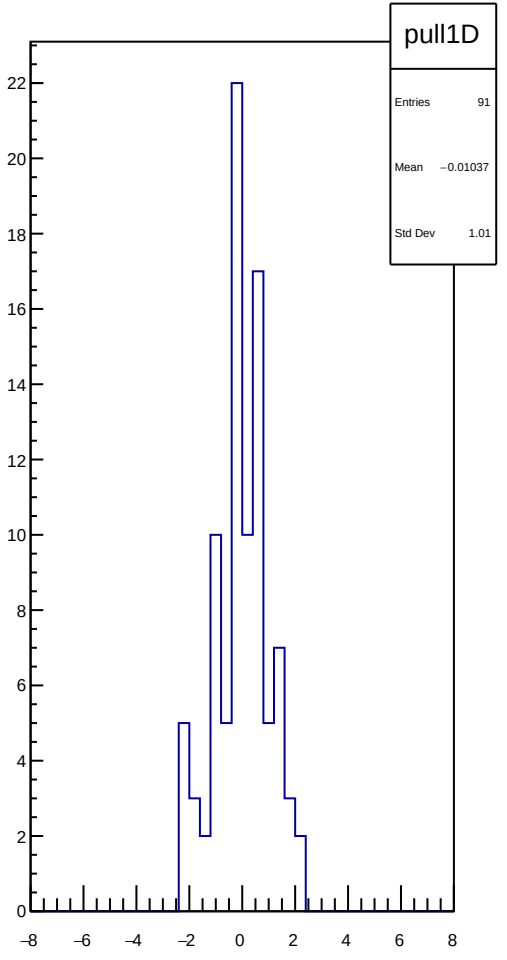

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 99.25 / 90
p0 1.559e+04 ± 11.78
16000
15900
15800
15700
15600
15500
15400
15300
15200

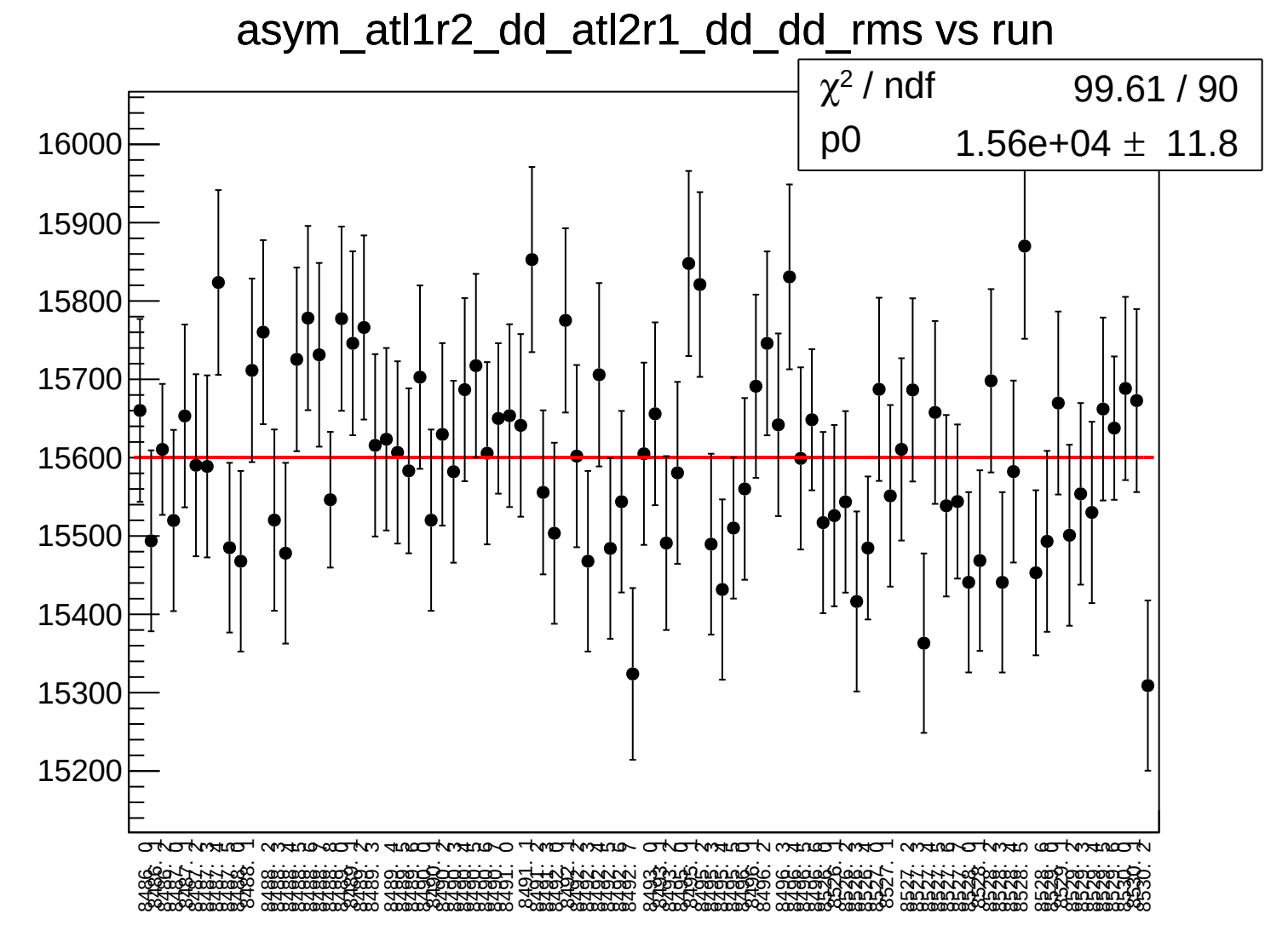

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 99.52 / 90
p0 −577 ± 672.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 24.66
Std Dev 0
2
1
0
−1
−2

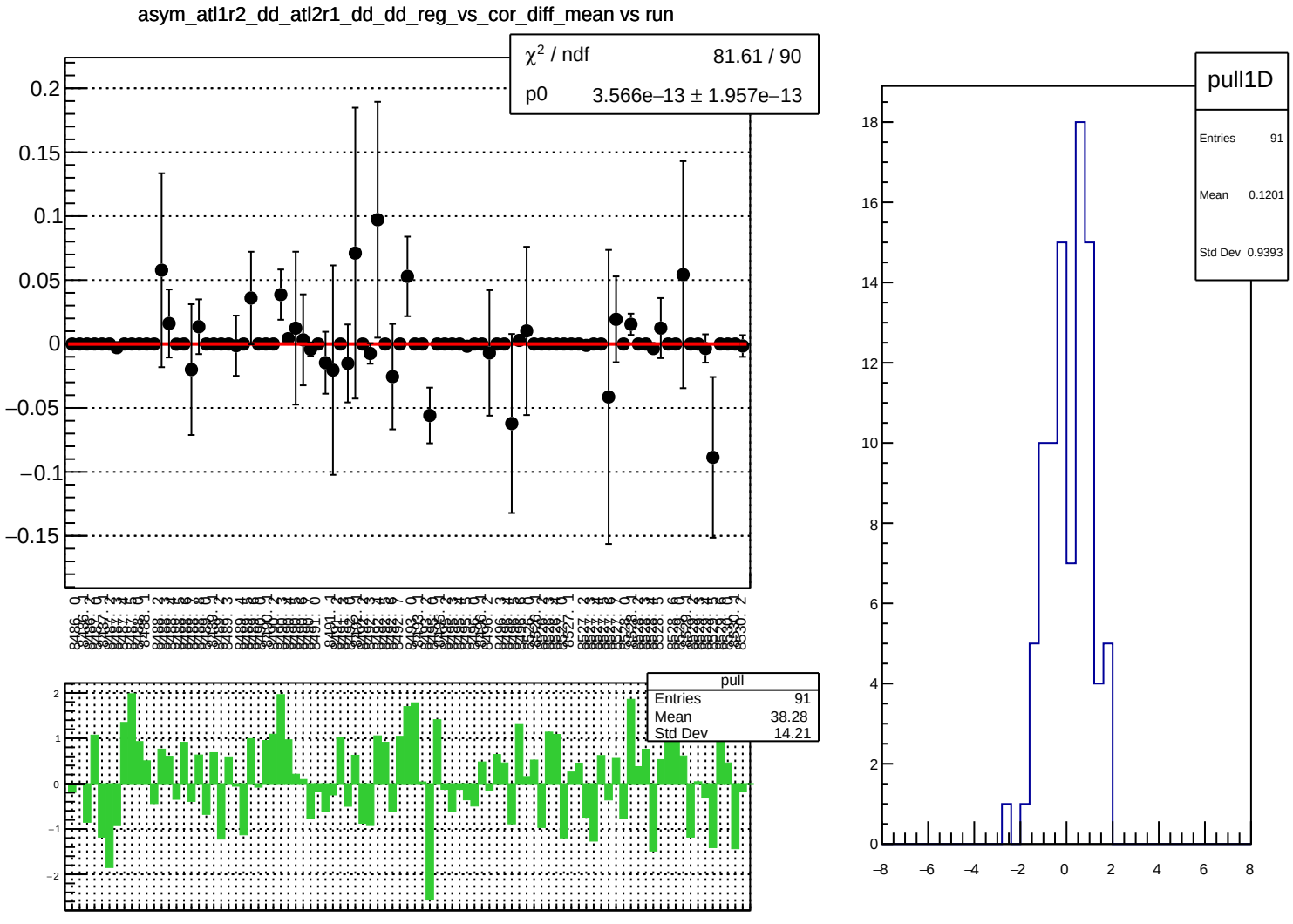

pull1D
Entries 91
Mean −0.04647
Std Dev 1.045
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

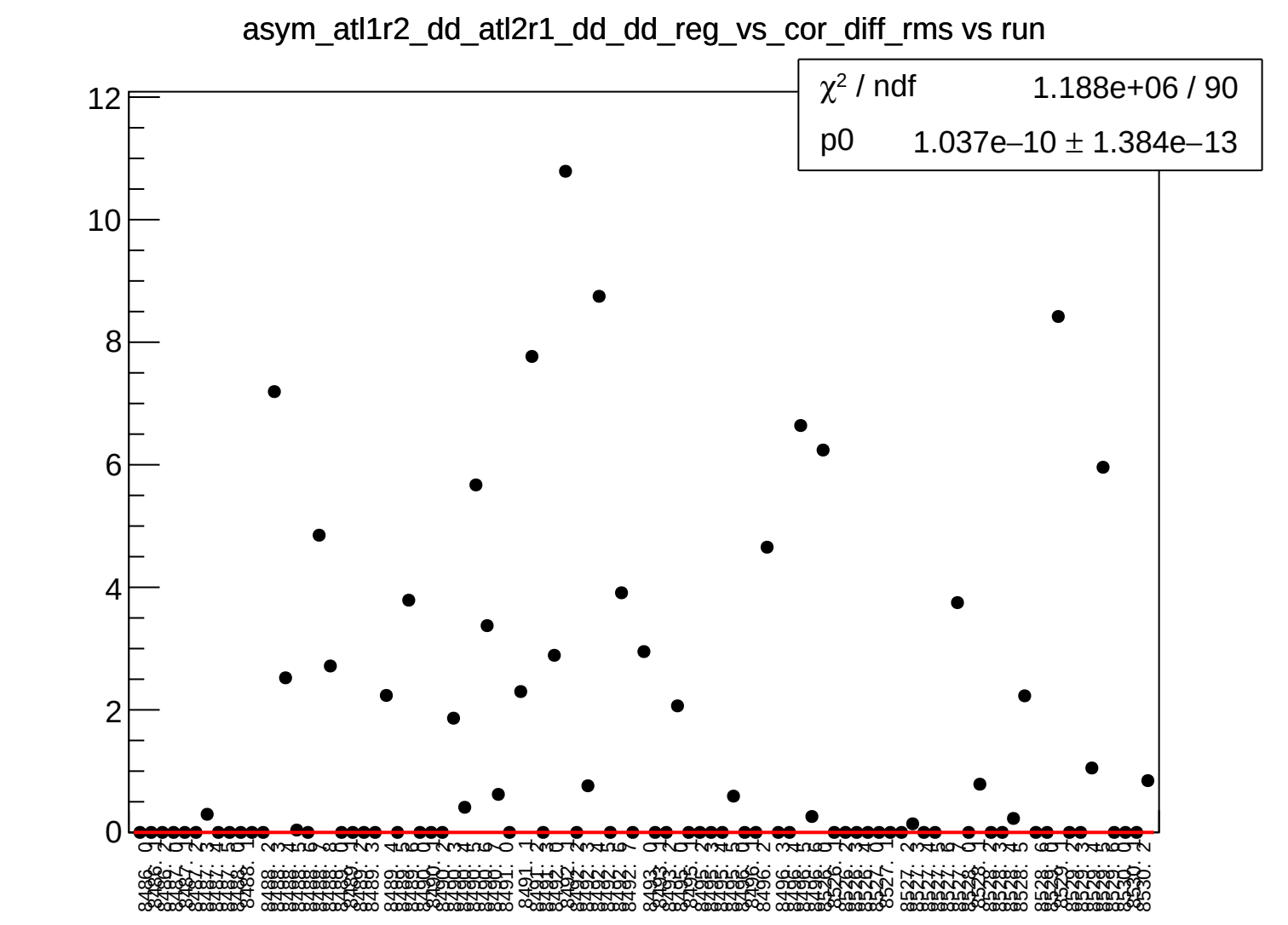

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.544e+04 / 90
p0 622.9 ± 0.4758
900
850
800
750
700
650
600
550
500
450

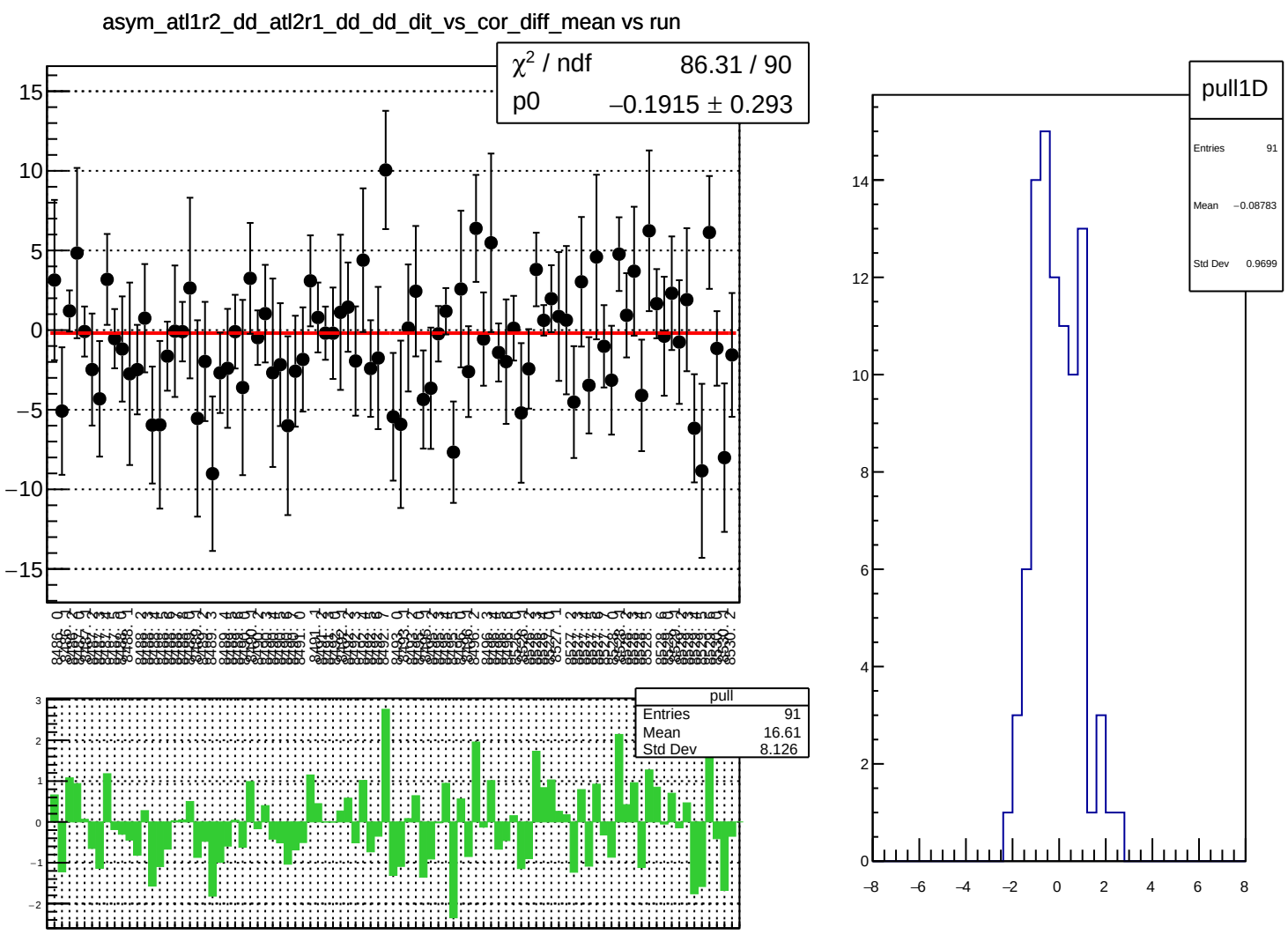

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 92.87 / 90
p0 1.22e+04 ± 1.668e+04
pull
Entries 91
Mean −561.2
Std Dev 0

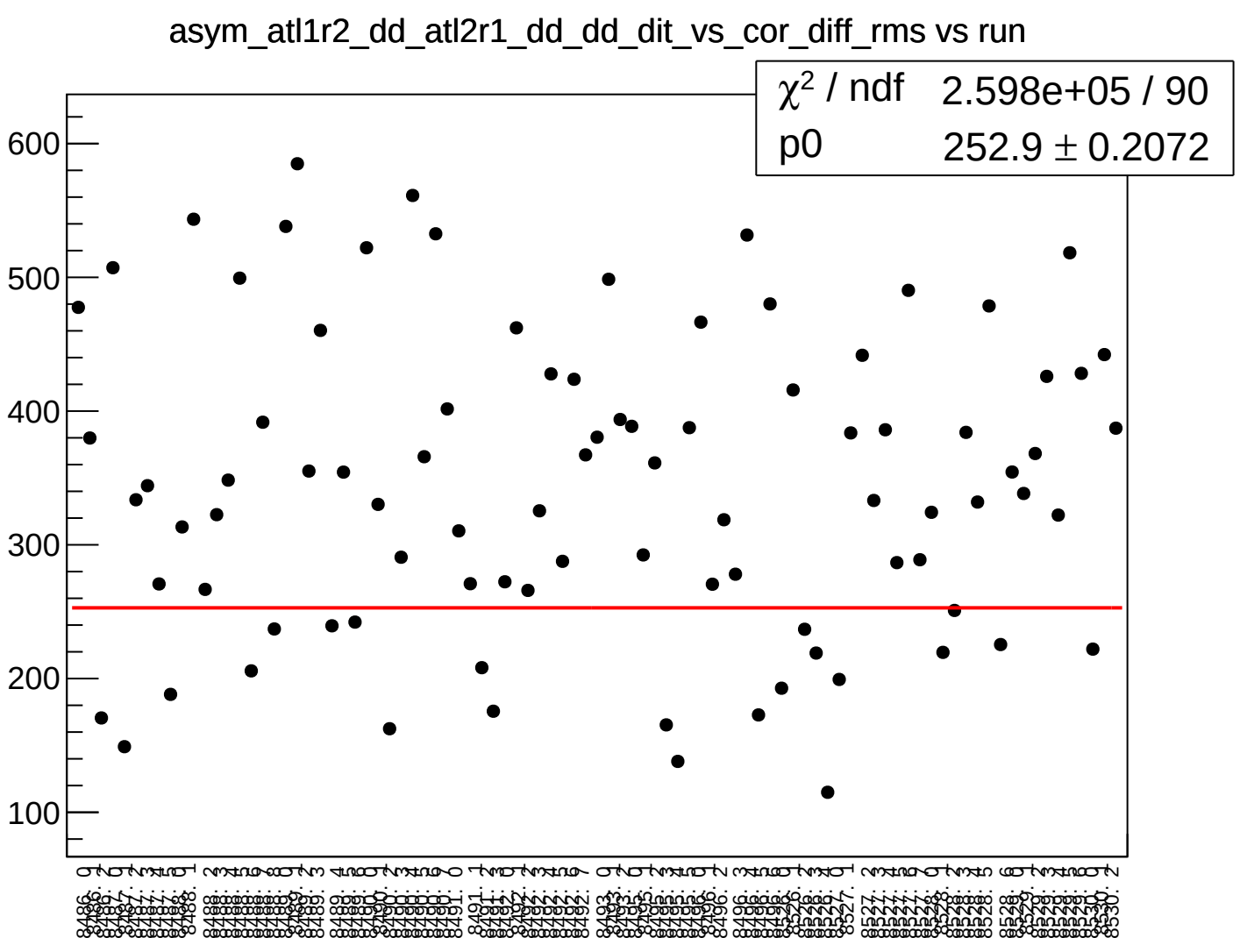

pull1D
Entries 91
Mean −0.01037
Std Dev 1.01

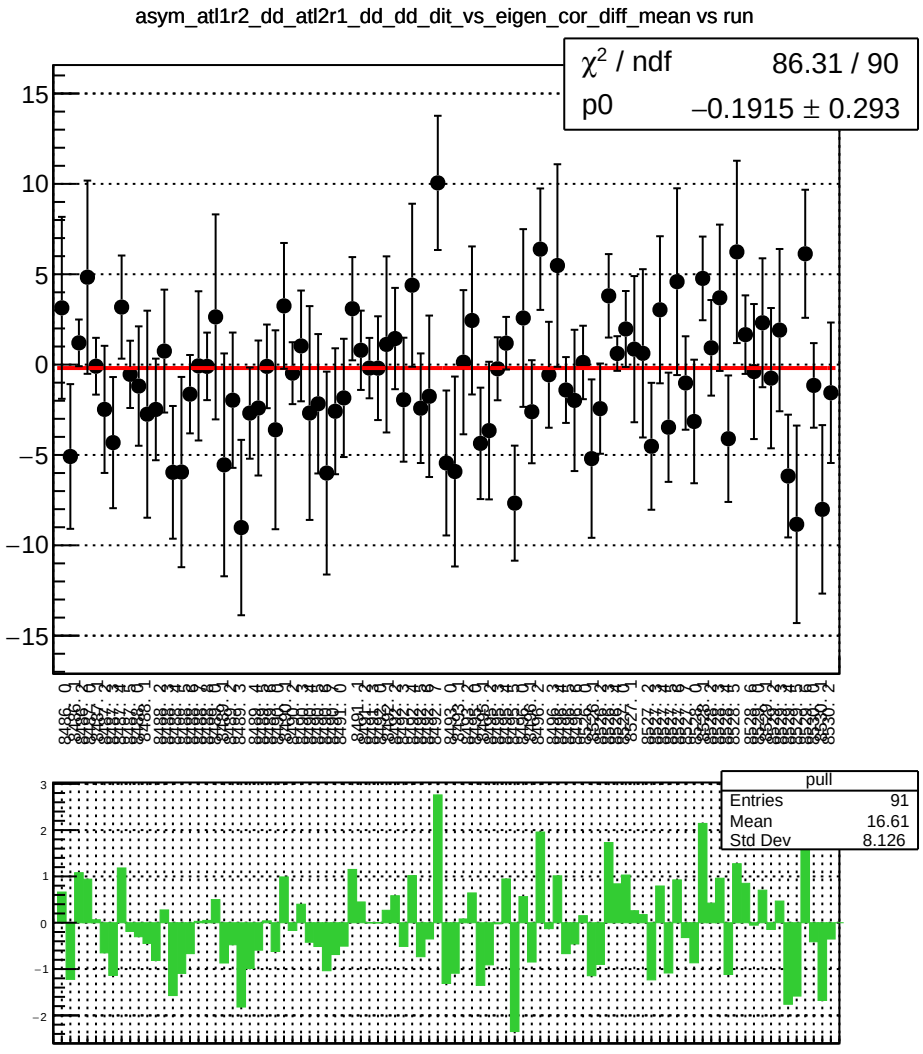

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 99.61 / 90
p0 1.56e+04 ± 11.8
16000
15900
15800
15700
15600
15500
15400
15300
15200

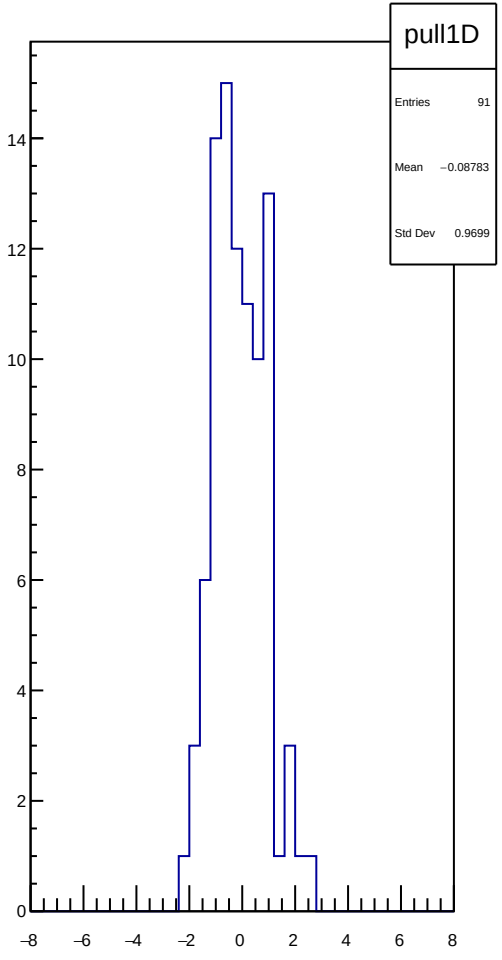

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 81.61 / 90
p0 3.566e−13 ± 1.957e−13
pull
Entries 91
Mean 38.28
Std Dev 14.21
pull1D
Entries 91
Mean 0.1201
Std Dev 0.9393

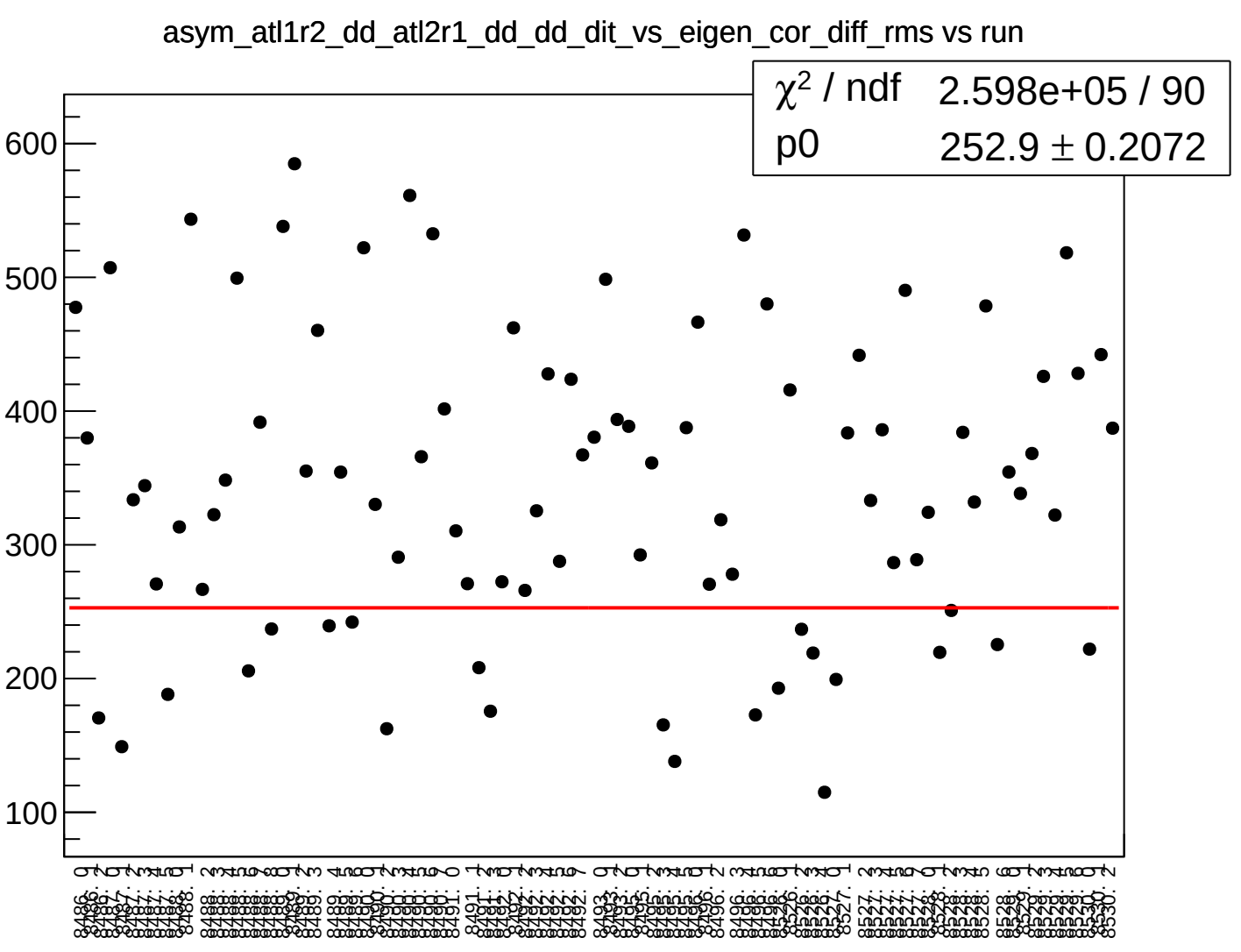

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.188e+06 / 90
p0 1.037e−10 ± 1.384e−13
12
10
8
6
4
2
0

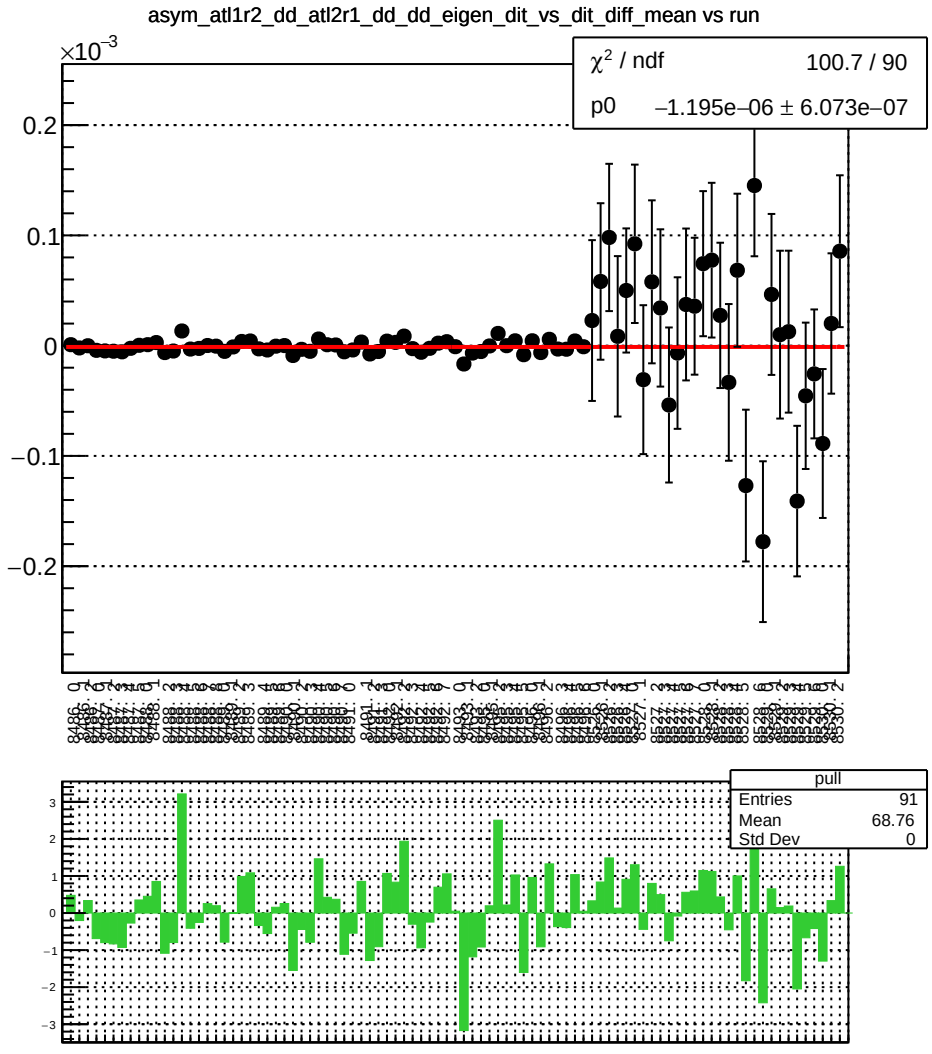

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.31 / 90
p0 −0.1915 ± 0.293
pull
Entries 91
Mean 16.61
Std Dev 8.126
pull1D
Entries 91
Mean −0.08783
Std Dev 0.9699

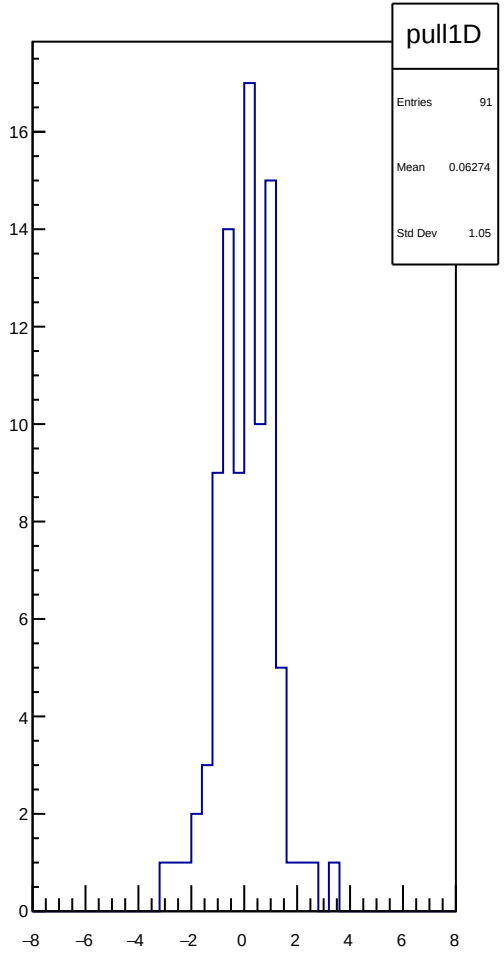

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.598e+05 / 90
p0 252.9 ± 0.2072
600
500
400
300
200
100

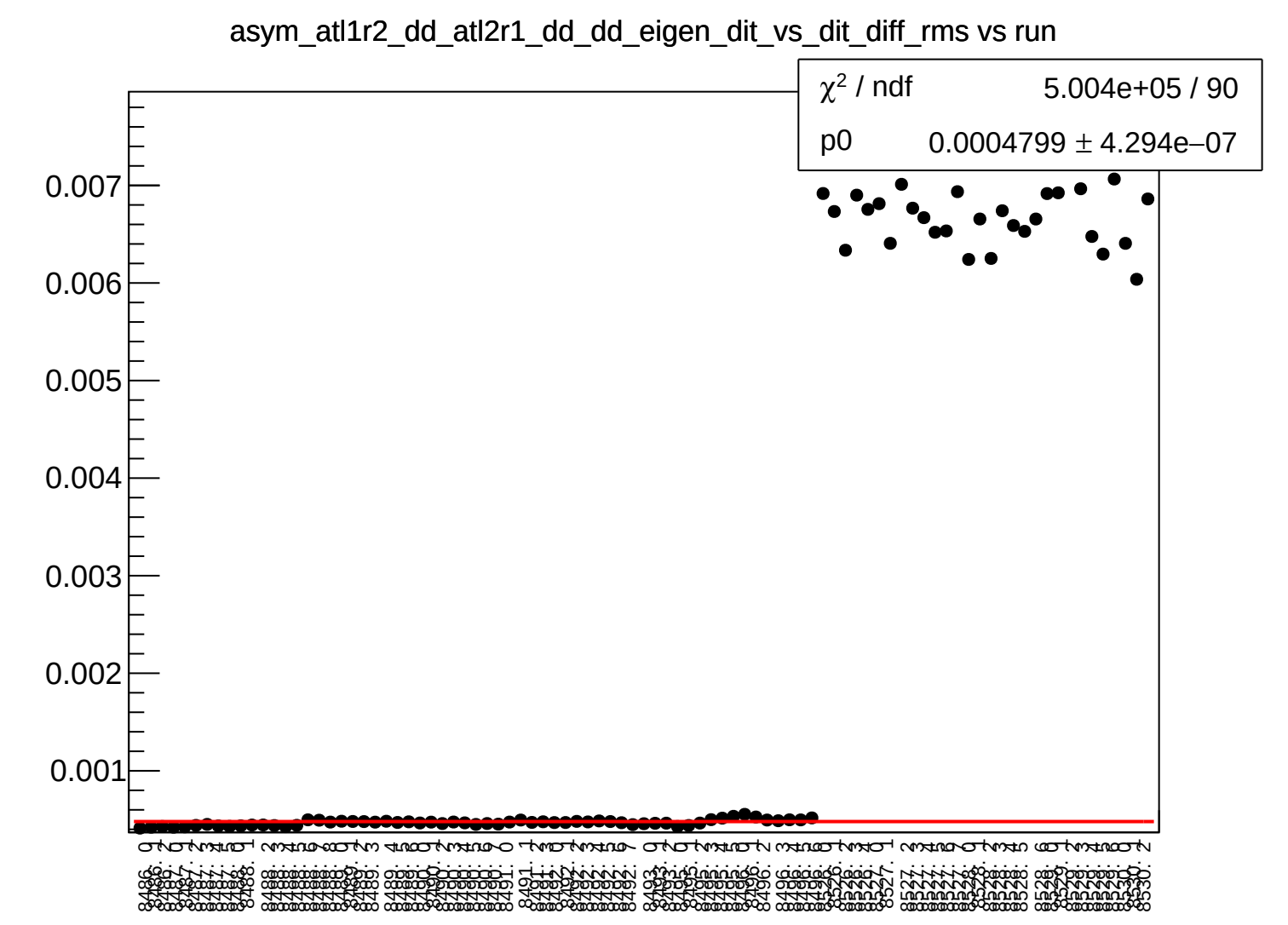

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.31 / 90
p0 −0.1915 ± 0.293
pull
Entries 91
Mean 16.61
Std Dev 8.126

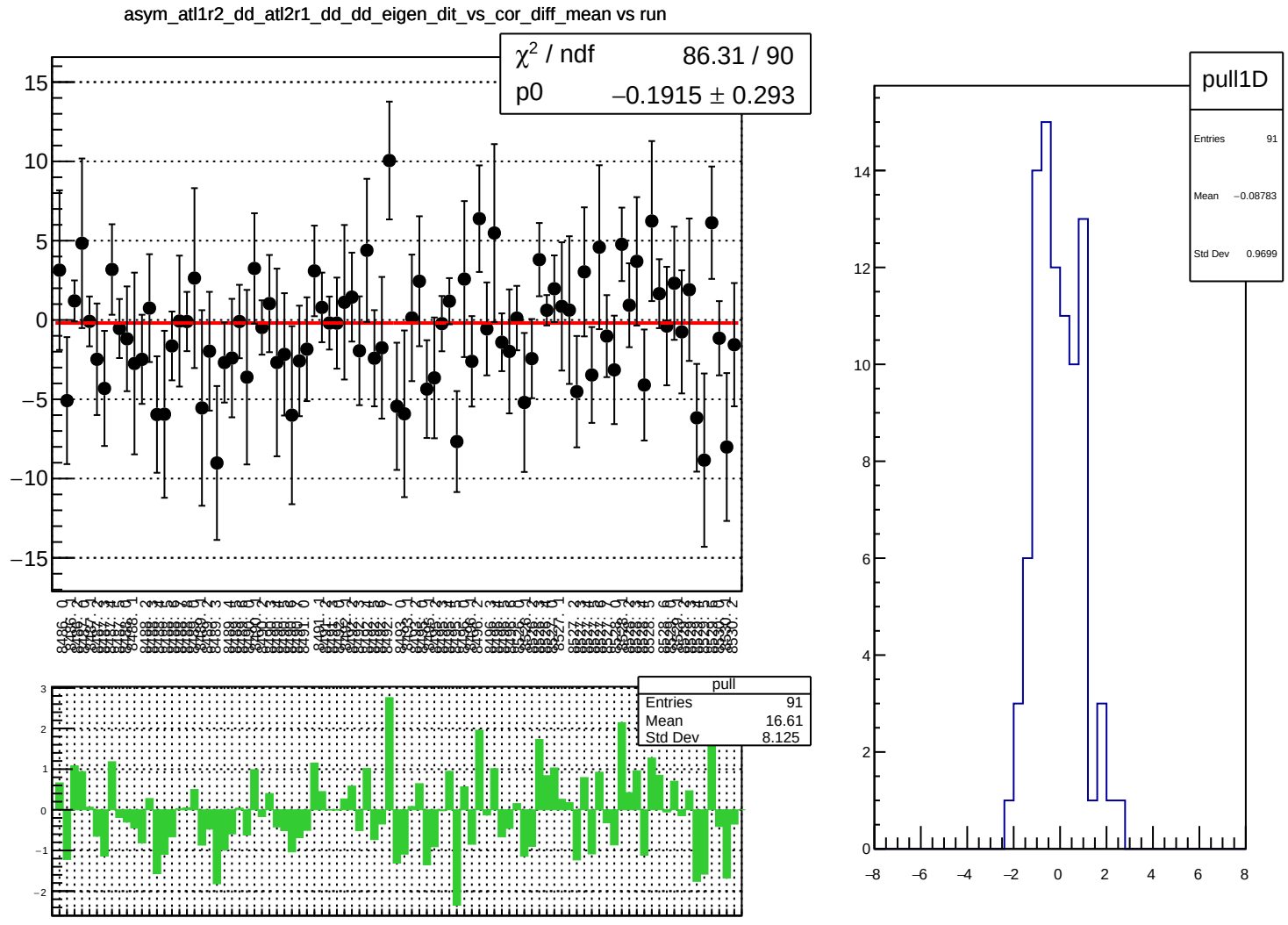

pull1D
Entries 91
Mean −0.08783
Std Dev 0.9699

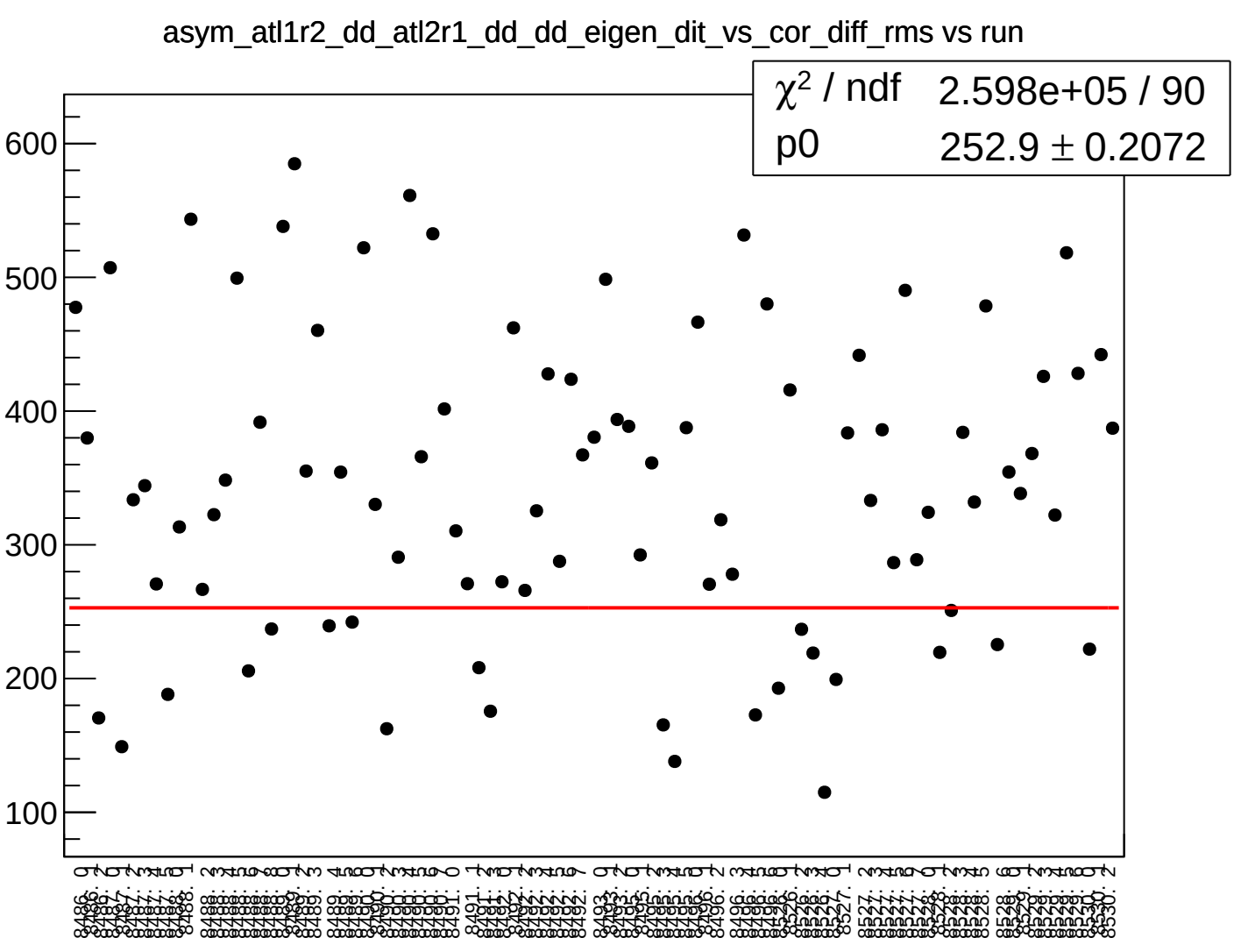

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.598e+05 / 90
p0 252.9 ± 0.2072
600
500
400
300
200
100

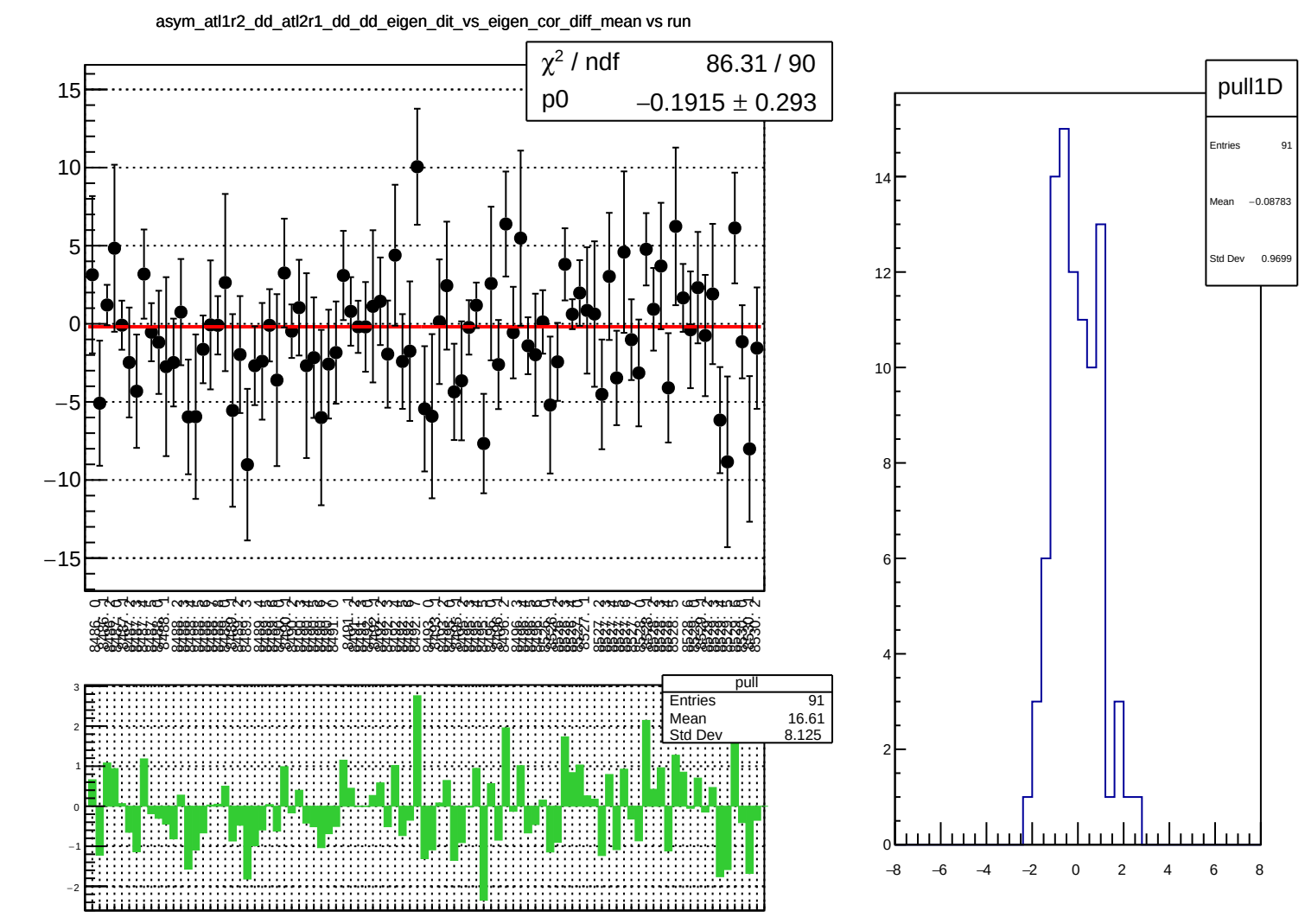

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.7 / 90
p0 −1.195e−06 ± 6.073e−07
0.2
0.1
0
−0.1
−0.2
pull
Entries 91
Mean 68.76
Std Dev 0
3
2
1
0
−1
−2
−3

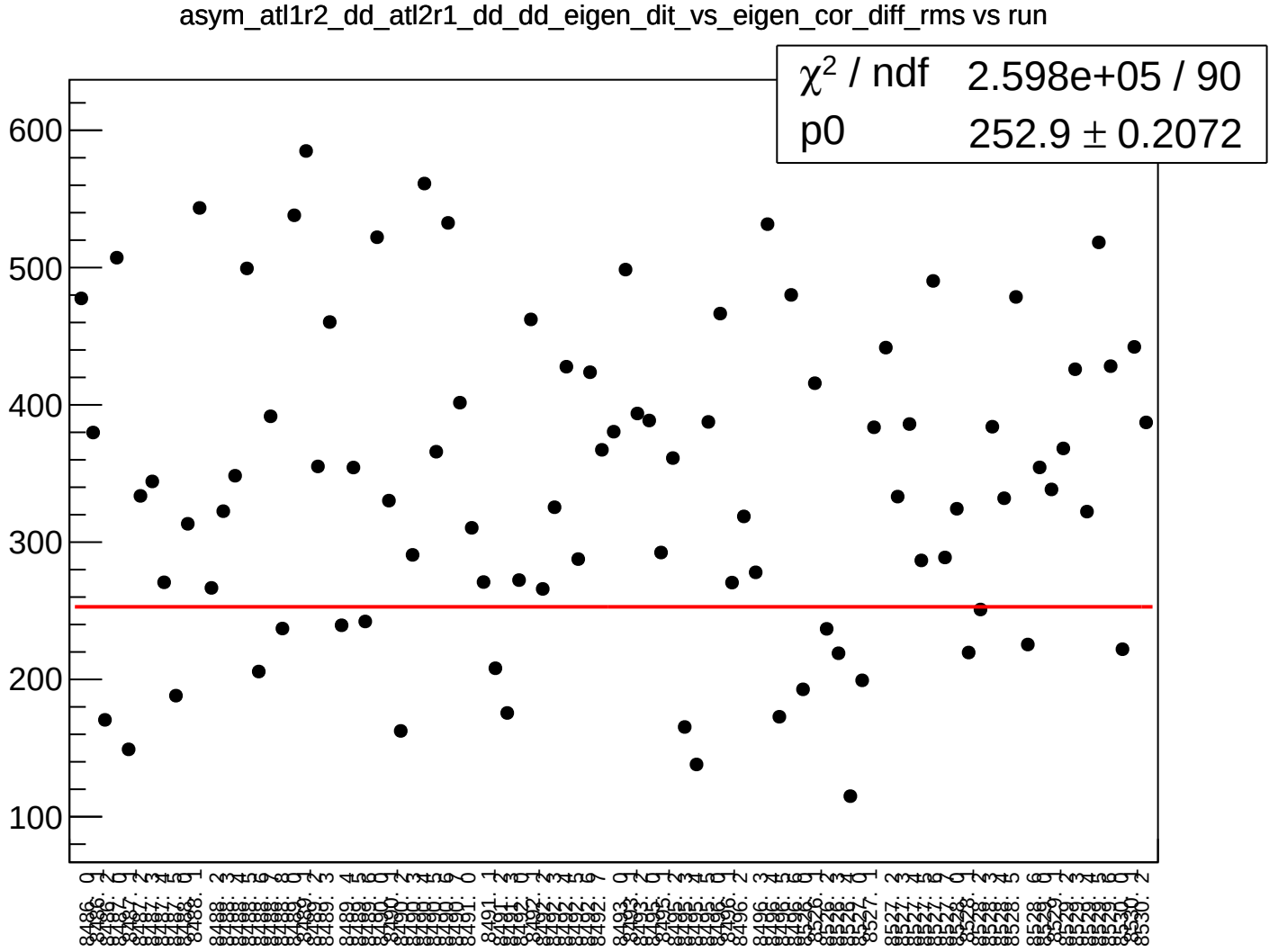

pull1D
Entries 91
Mean 0.06274
Std Dev 1.05
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

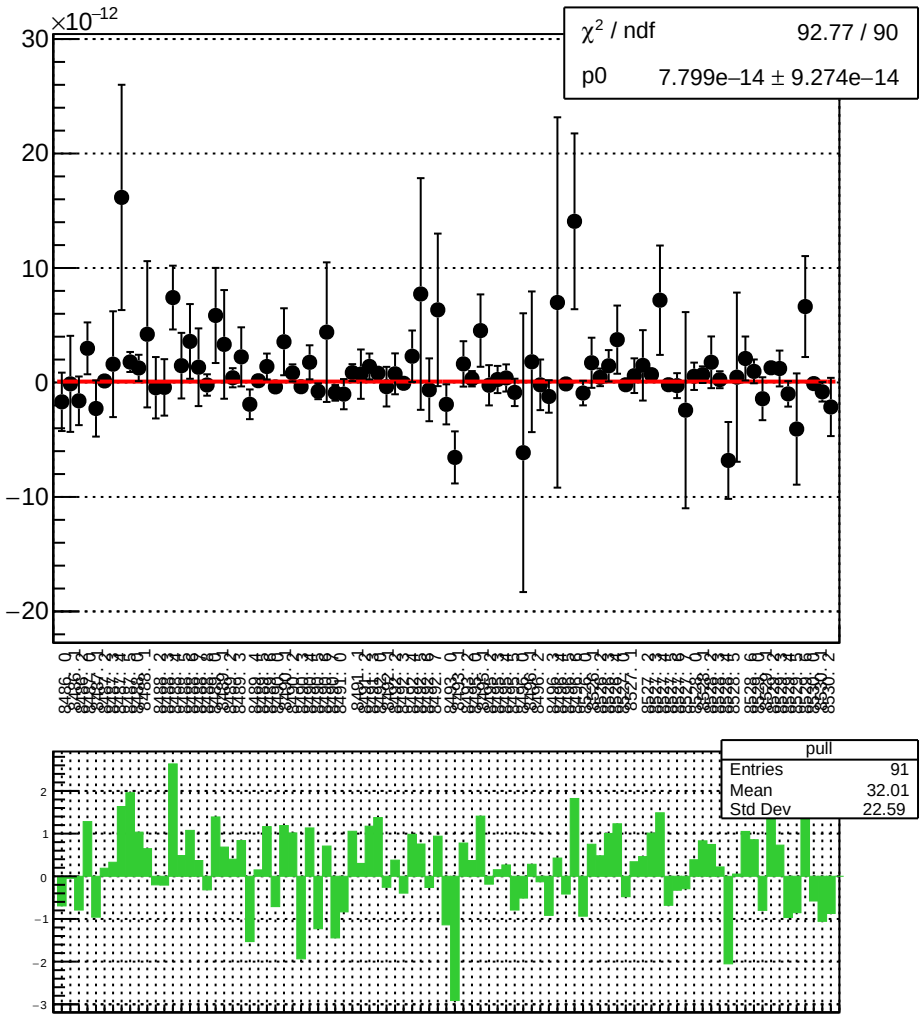

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.004e+05 / 90
p0 0.0004799 ± 4.294e−07
0.007
0.006
0.005
0.004
0.003
0.002
0.001

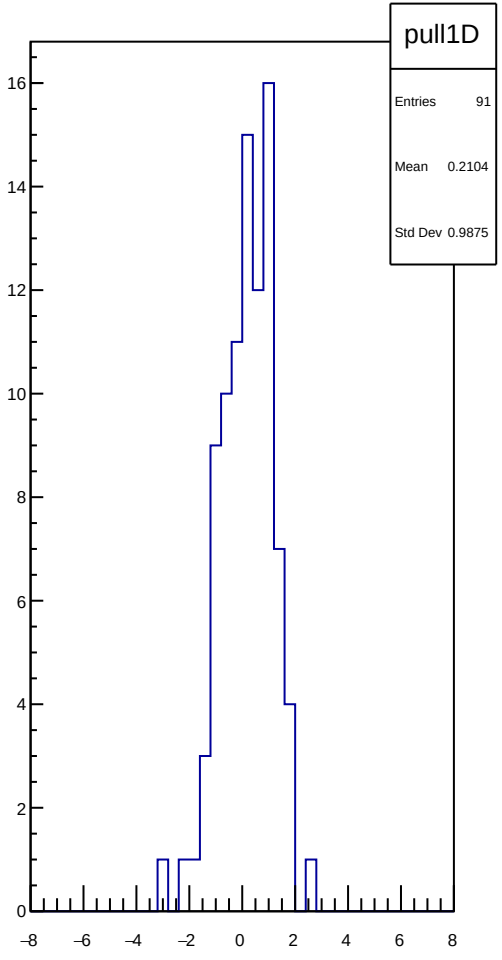

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.31 / 90
p0 −0.1915 ± 0.293
pull
Entries 91
Mean 16.61
Std Dev 8.125
pull1D
Entries 91
Mean −0.08783
Std Dev 0.9699

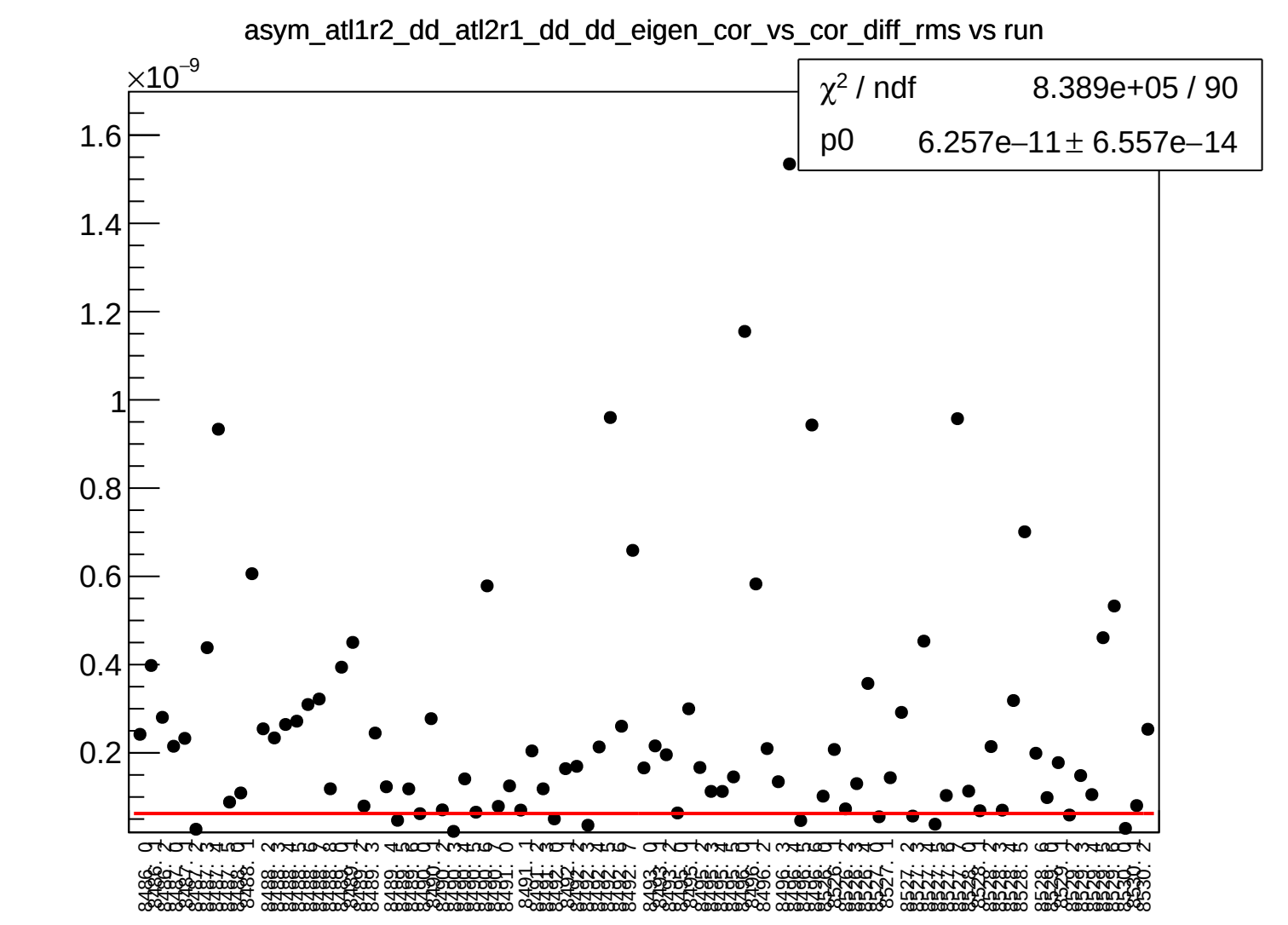

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.598e+05 / 90
p0 252.9 ± 0.2072
600
500
400
300
200
100

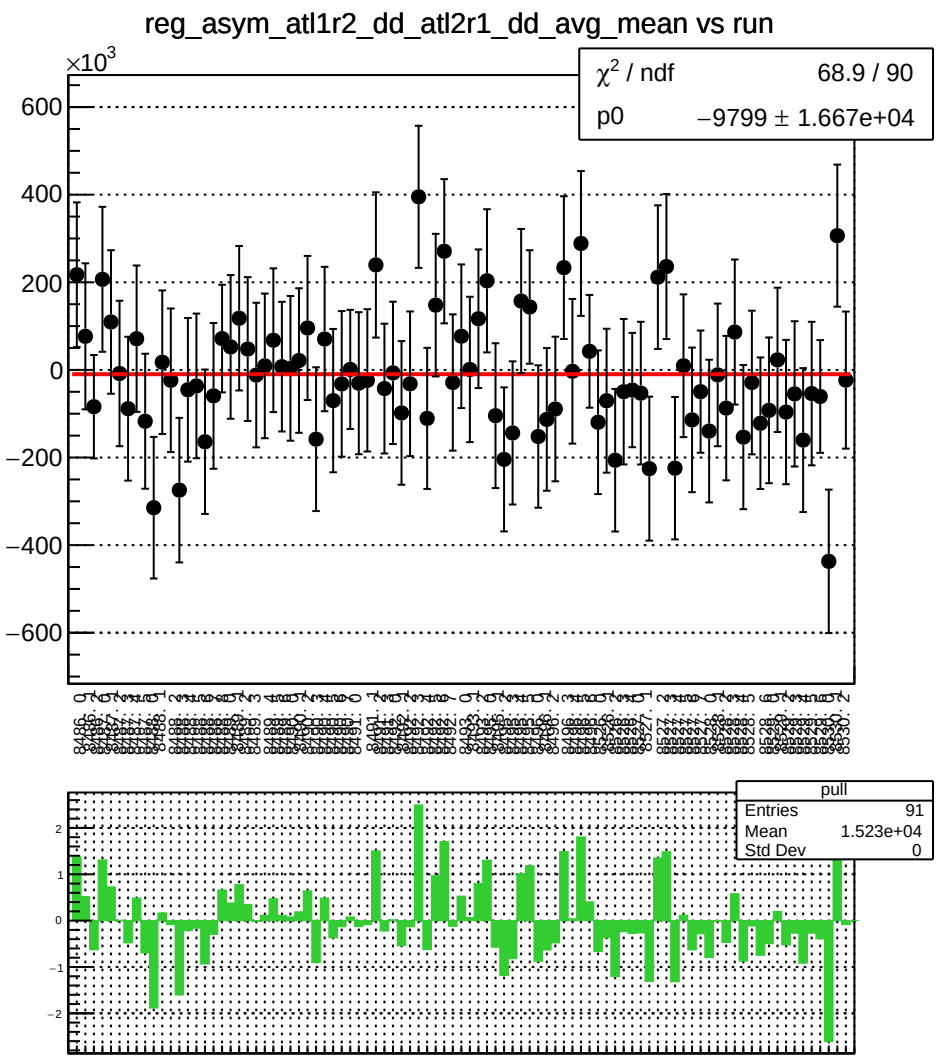

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.31 / 90
p0 −0.1915 ± 0.293
pull
Entries 91
Mean 16.61
Std Dev 8.125
pull1D
Entries 91
Mean −0.08783
Std Dev 0.9699

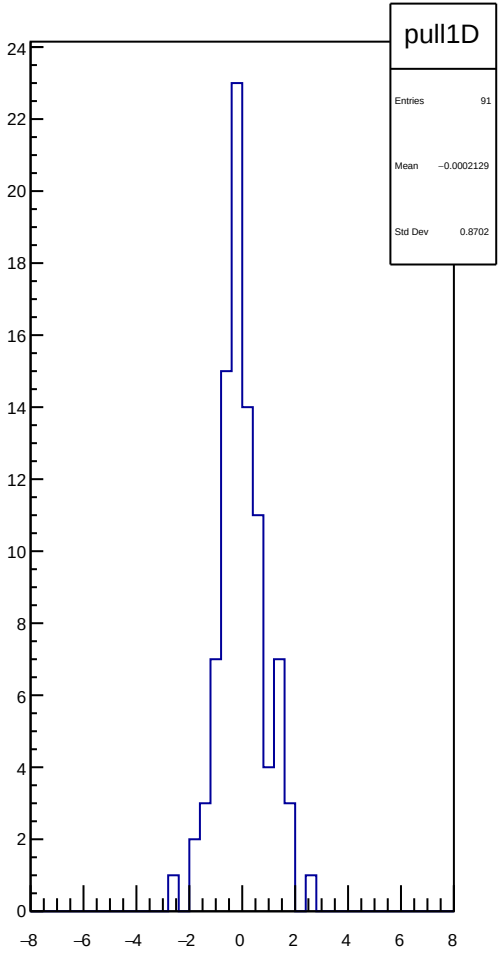

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.598e+05 / 90
p0 252.9 ± 0.2072
600
500
400
300
200
100

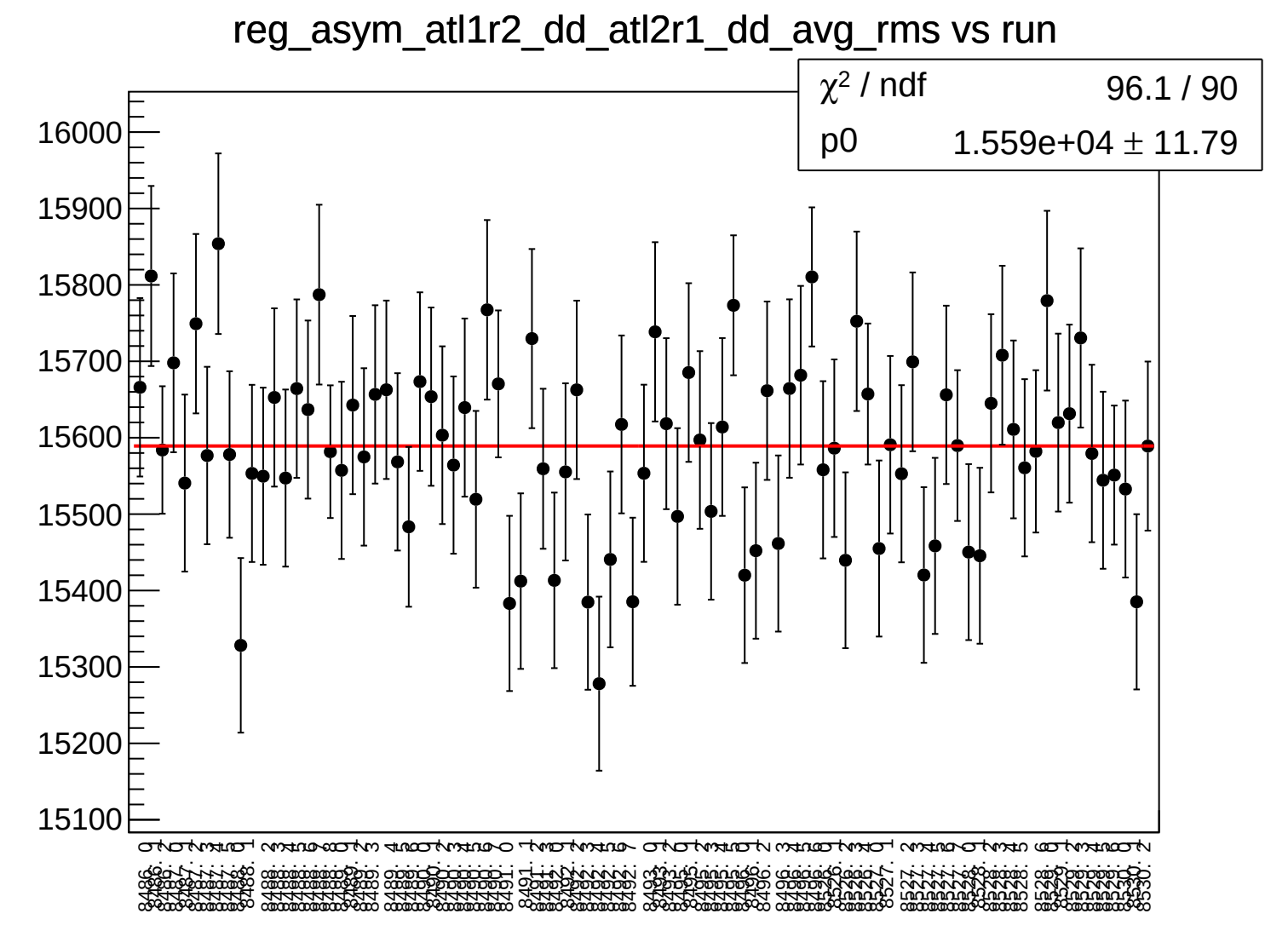

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.77 / 90
p0 7.799e−14 ± 9.274e−14
pull
Entries 91
Mean 32.01
Std Dev 22.59

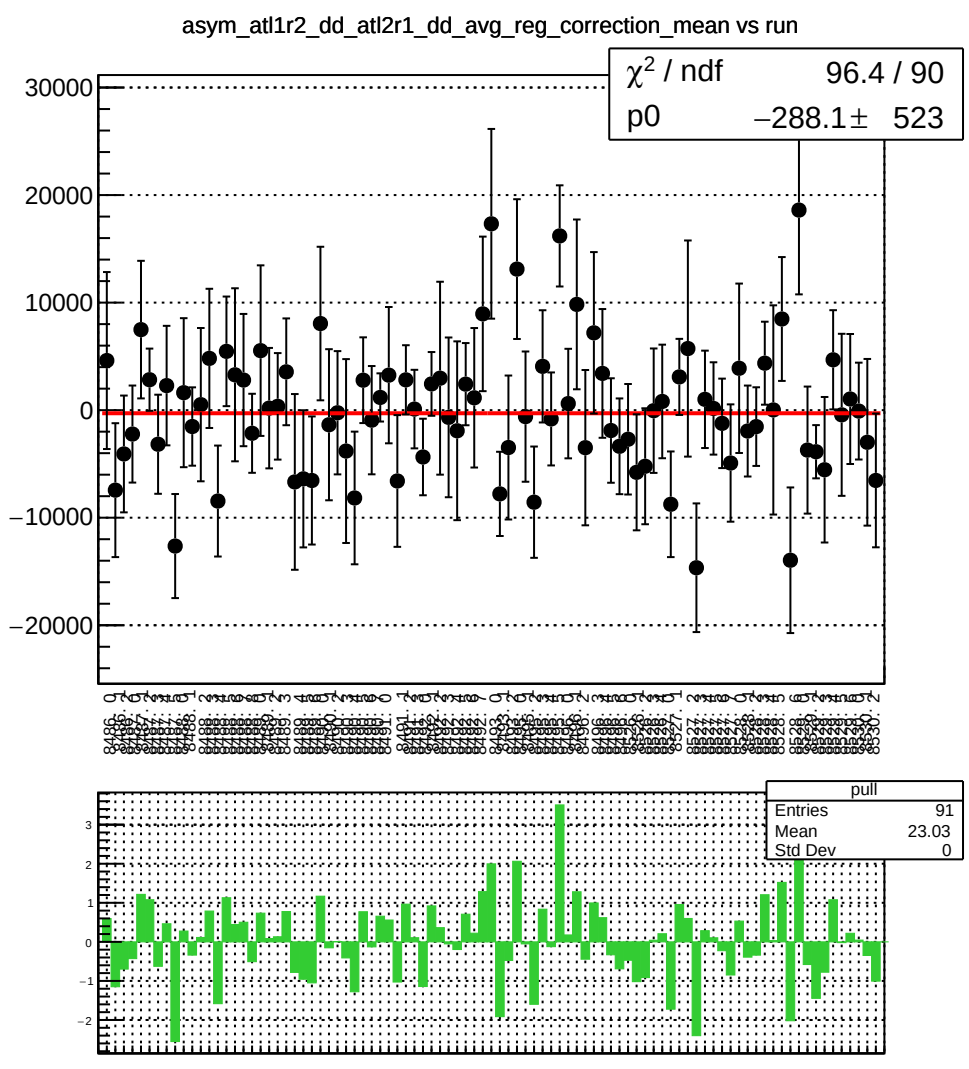

pull1D
Entries 91
Mean 0.2104
Std Dev 0.9875

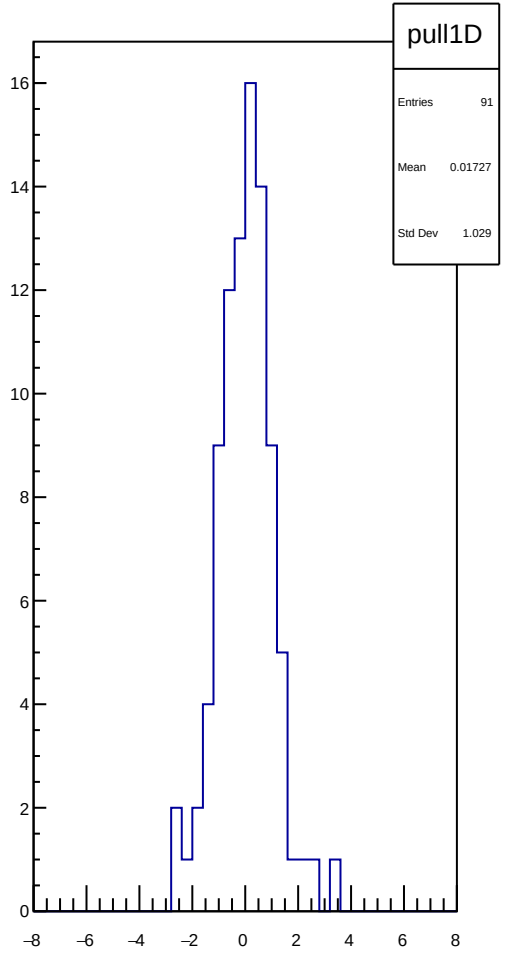

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.389e+05 / 90
p0 6.257e−11 ± 6.557e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

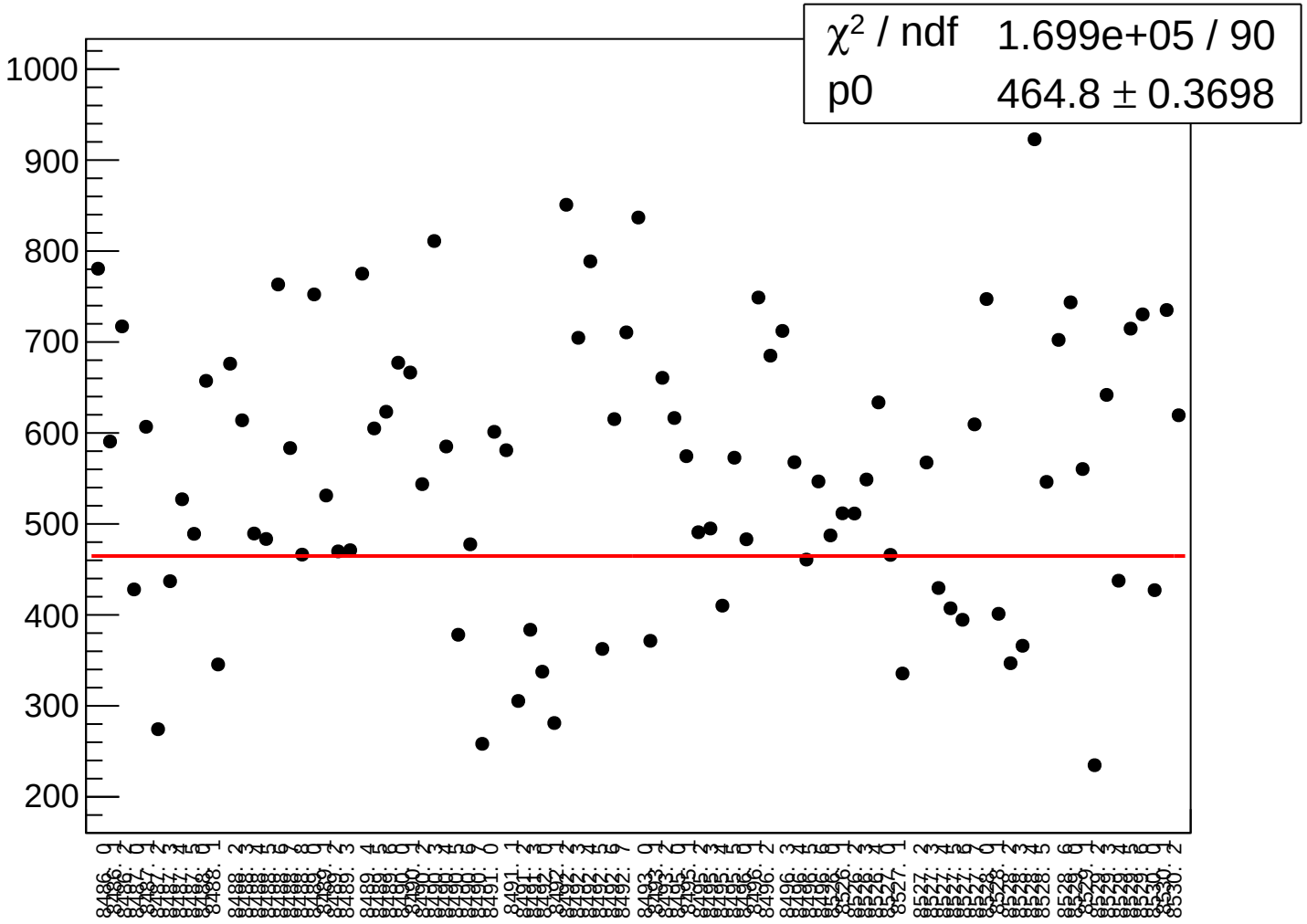

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
×10^3
χ² / ndf 68.9 / 90
p0 −9799 ± 1.667e+04
pull
Entries 91
Mean 1.523e+04
Std Dev 0

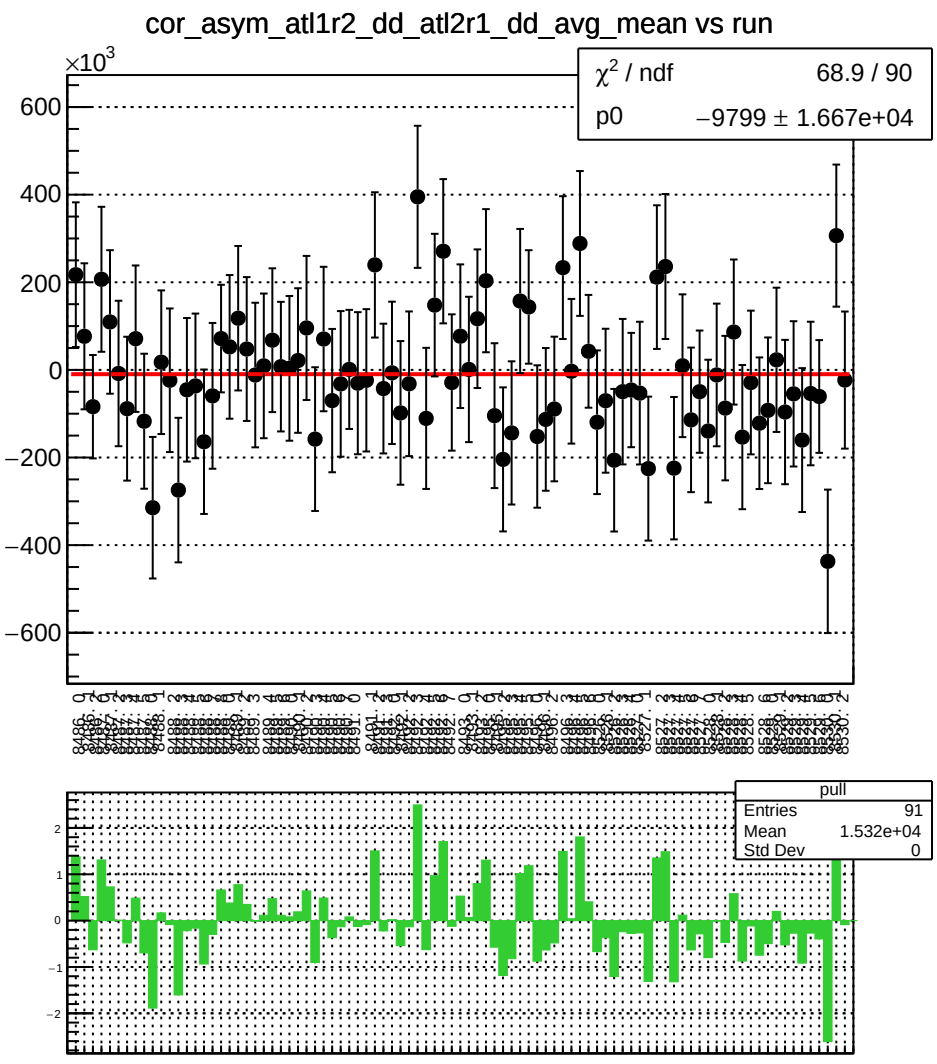

pull1D
Entries 91
Mean −0.0002129
Std Dev 0.8702

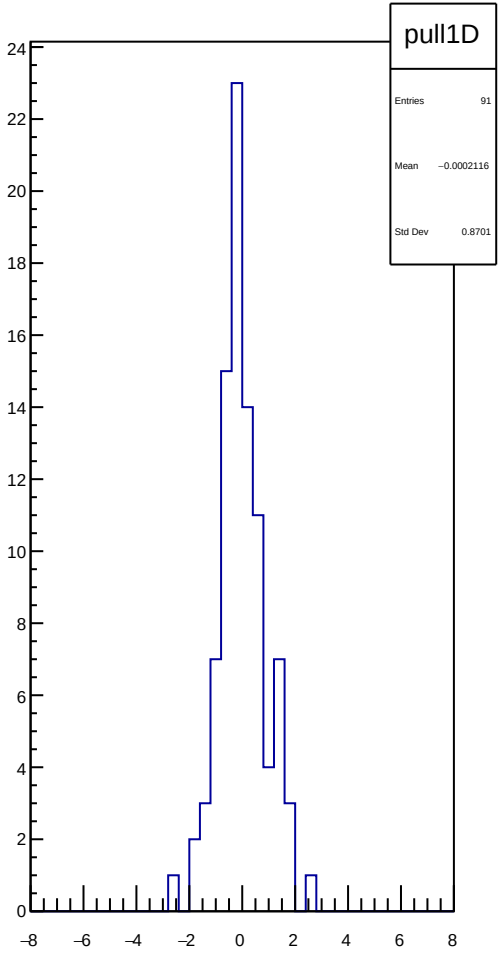

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 96.1 / 90
p0 1.559e+04 ± 11.79
16000
15900
15800
15700
15600
15500
15400
15300
15200
15100

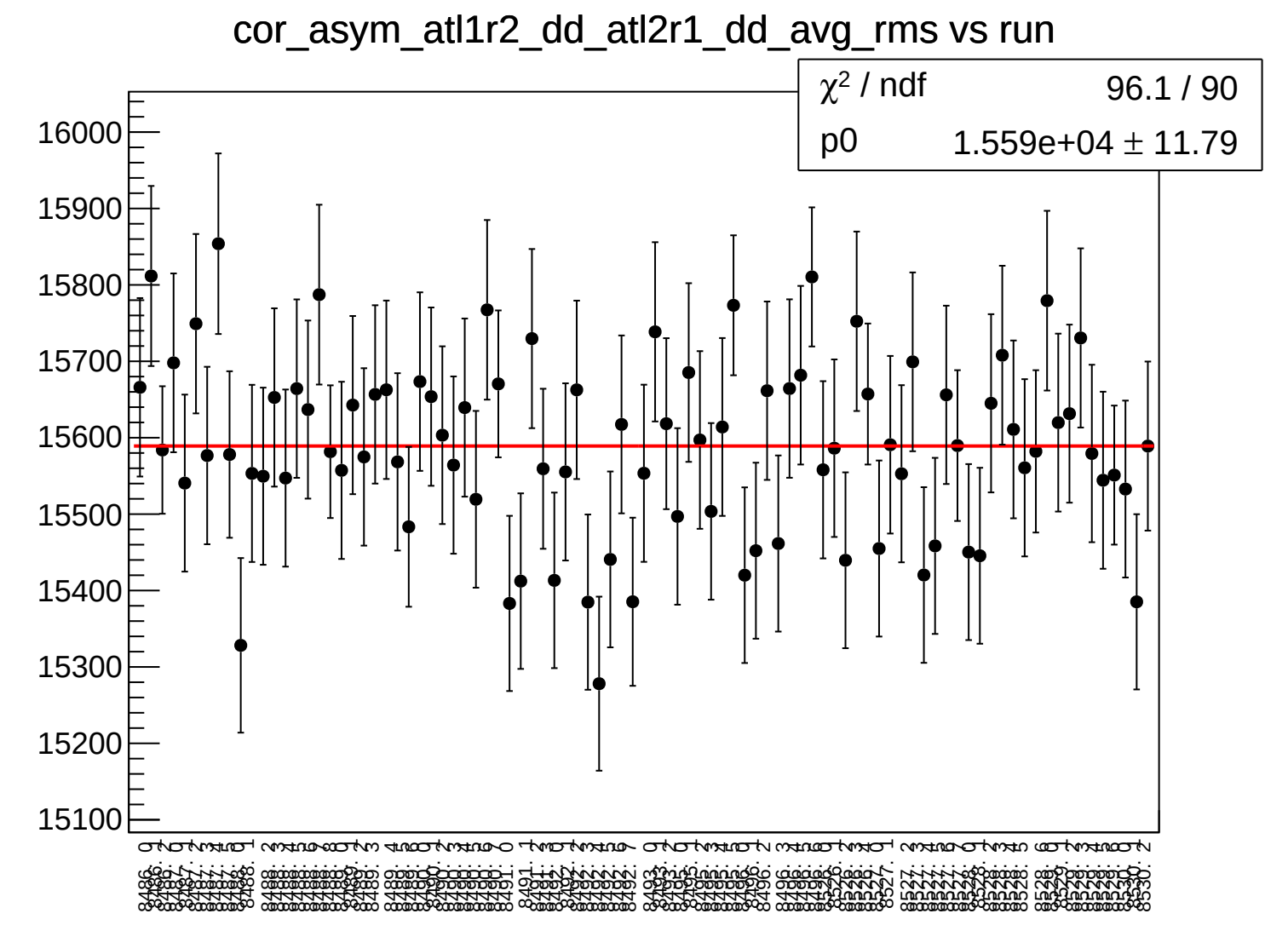

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 96.4 / 90
p0 −288.1± 523
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 23.03
Std Dev 0
3
2
1
0
−1
−2

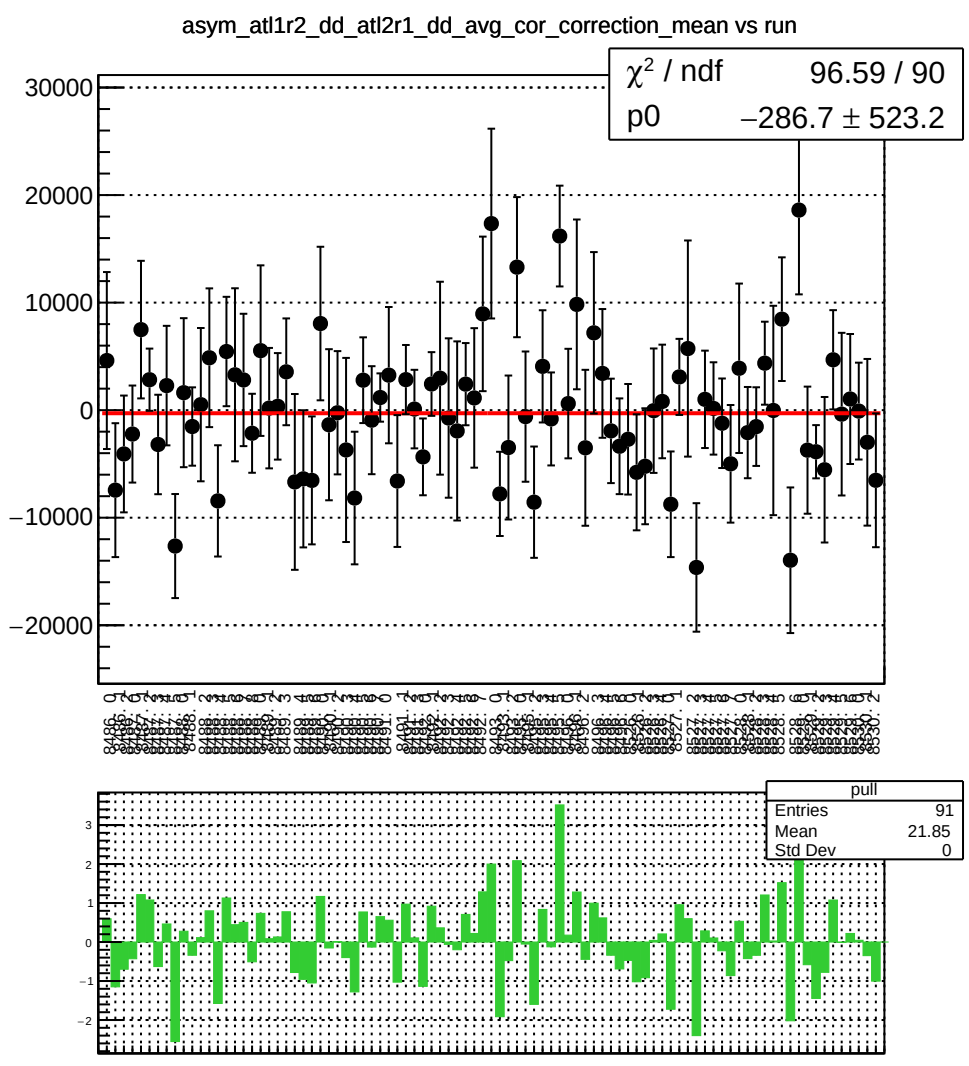

pull1D
Entries 91
Mean 0.01727
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

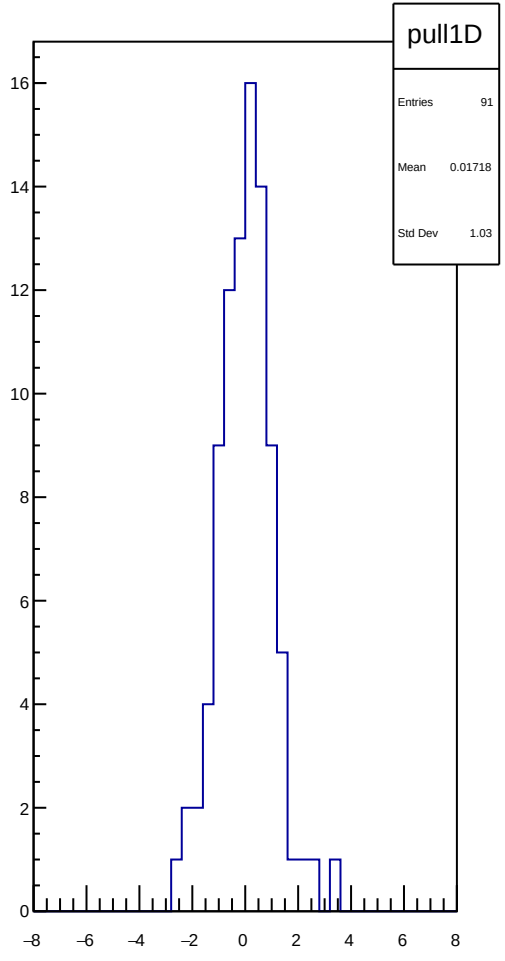

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 1.699e+05 / 90
p0 464.8 ± 0.3698
1000
900
800
700
600
500
400
300
200

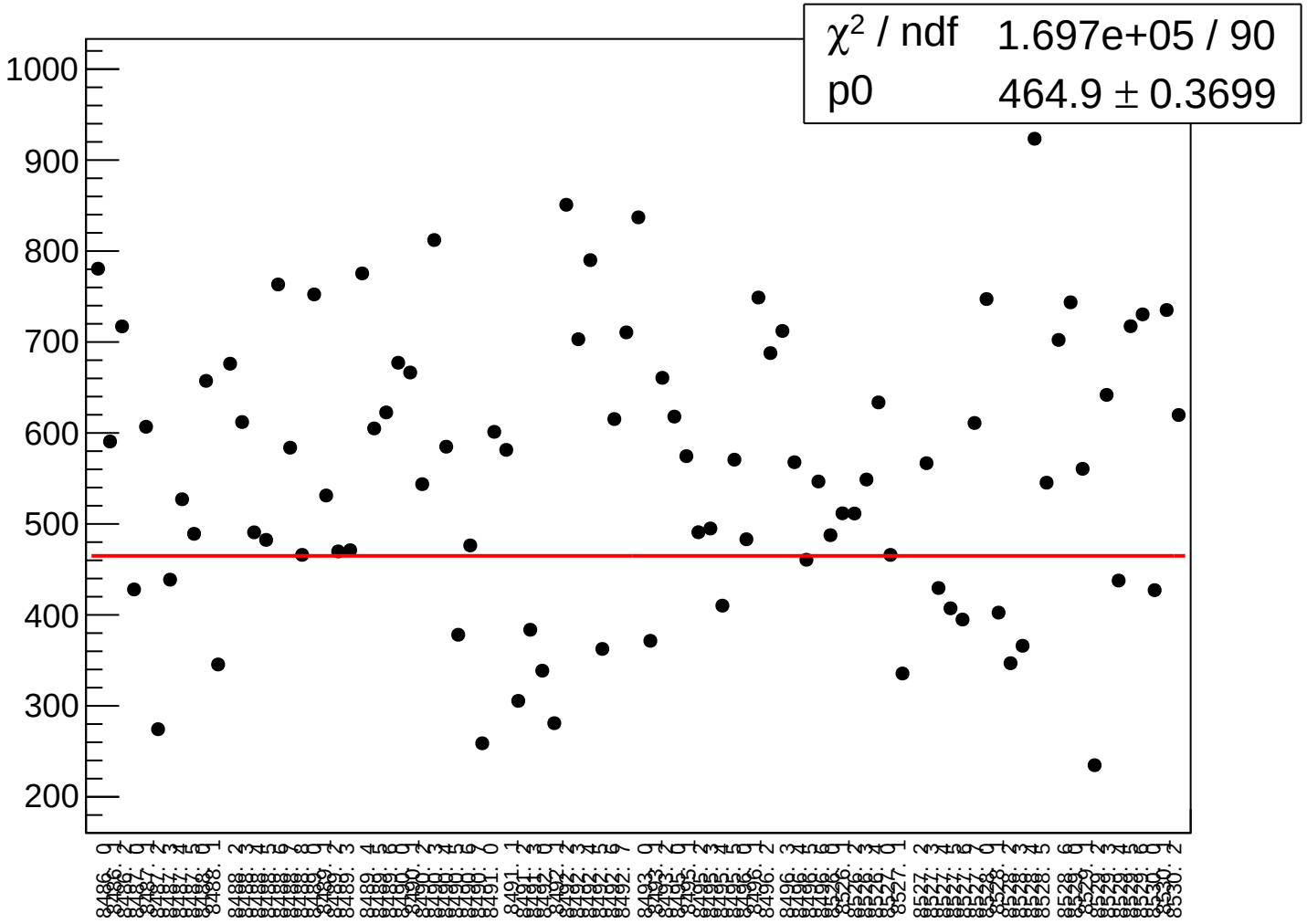

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
×10^3
χ² / ndf 68.9 / 90
p0 −9799 ± 1.667e+04
pull
Entries 91
Mean 1.532e+04
Std Dev 0

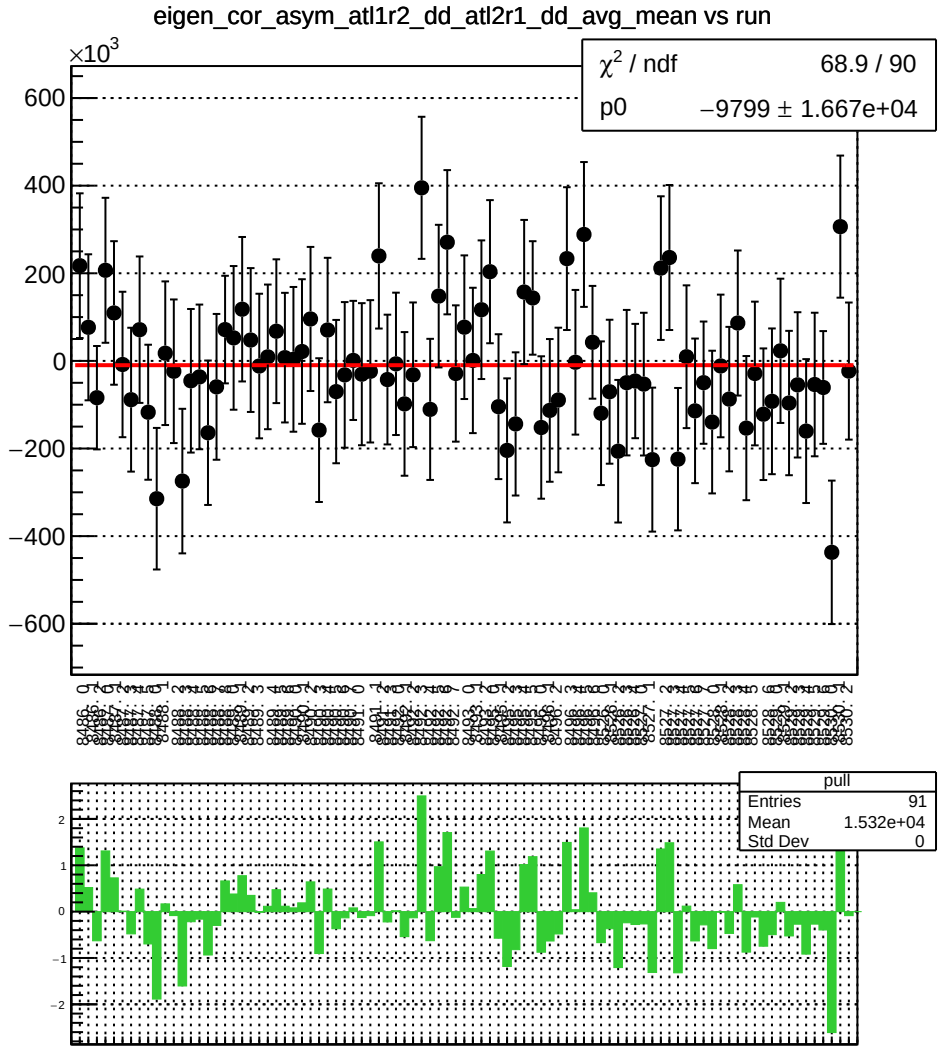

pull1D
Entries 91
Mean −0.0002116
Std Dev 0.8701

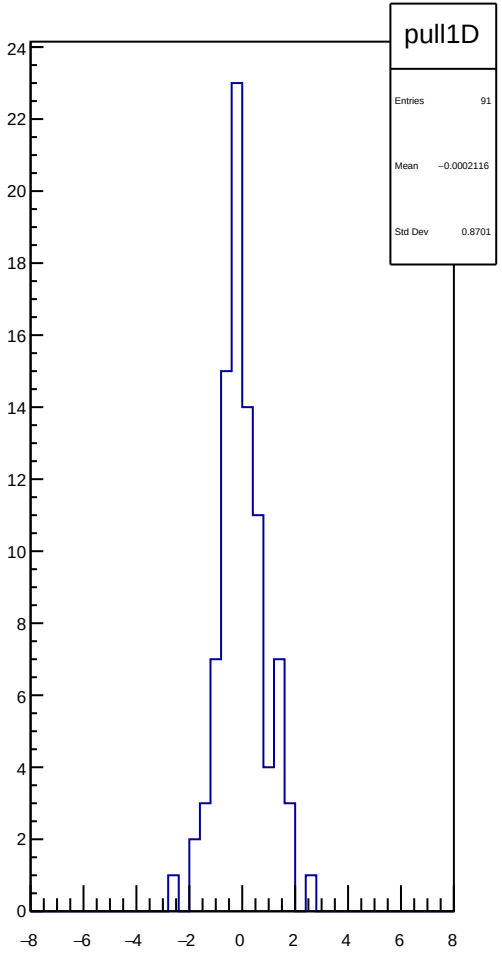

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 96.1 / 90
p0 1.559e+04 ± 11.79
16000
15900
15800
15700
15600
15500
15400
15300
15200
15100

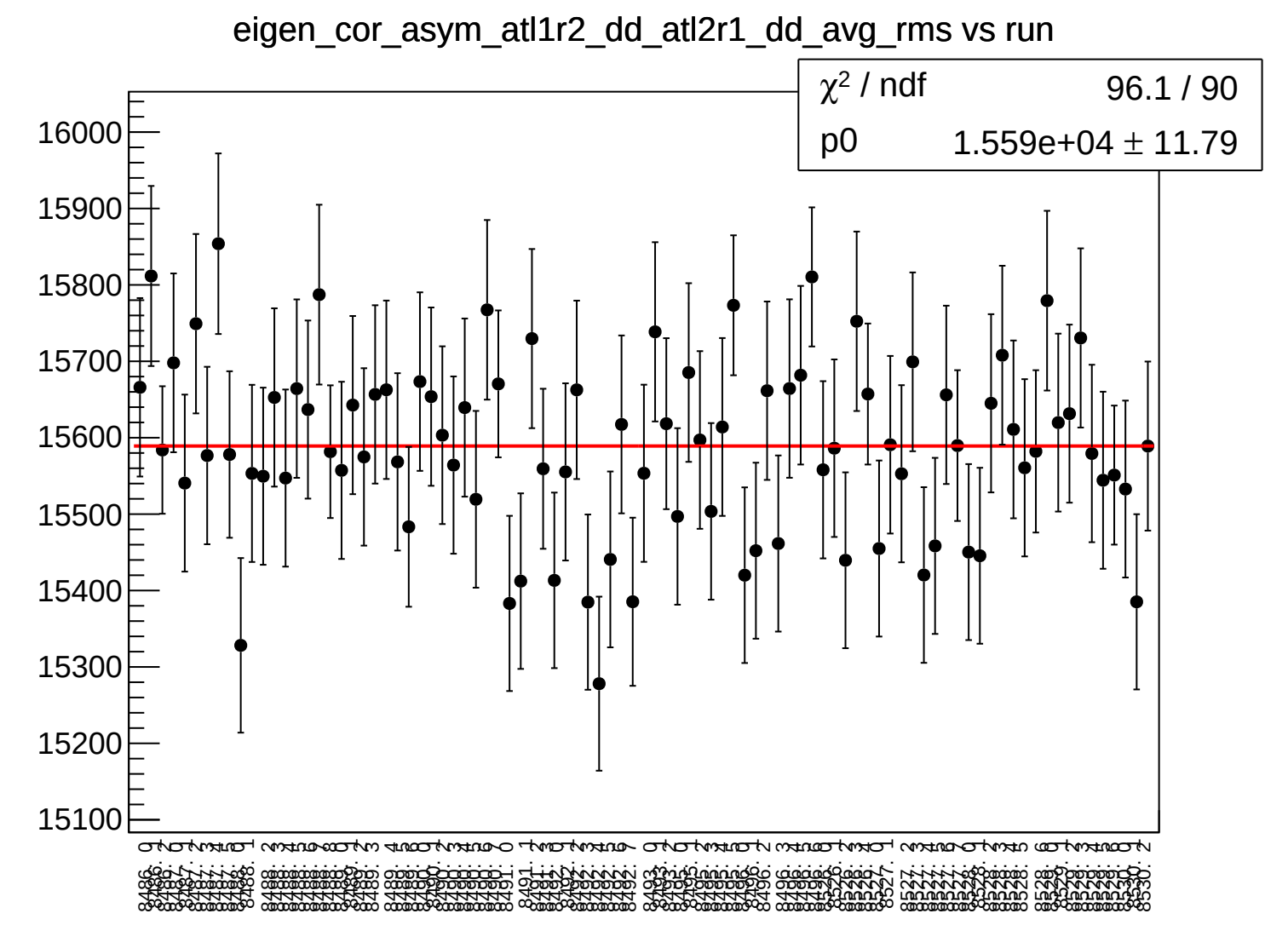

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 96.59 / 90
p0 −286.7 ± 523.2
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 21.85
Std Dev 0
3
2
1
0
−1
−2

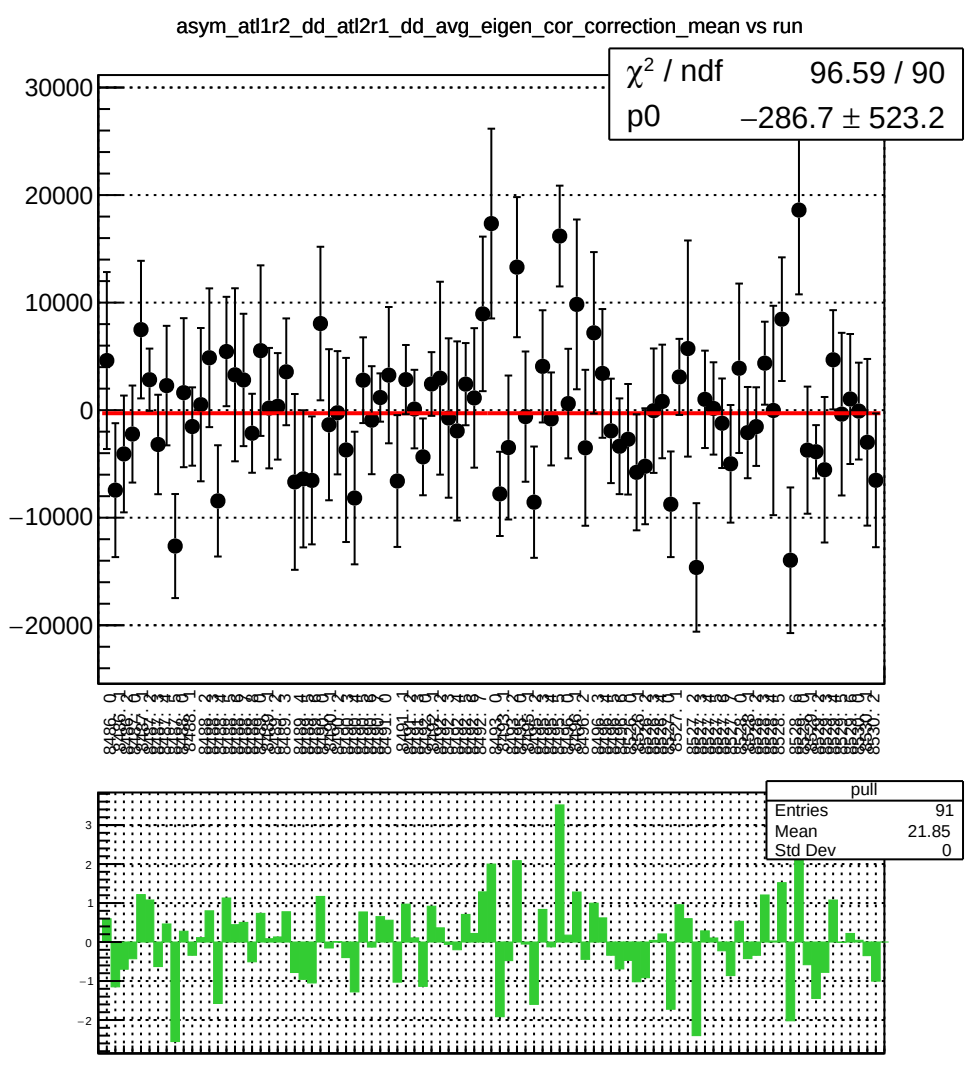

pull1D
Entries 91
Mean 0.01718
Std Dev 1.03
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

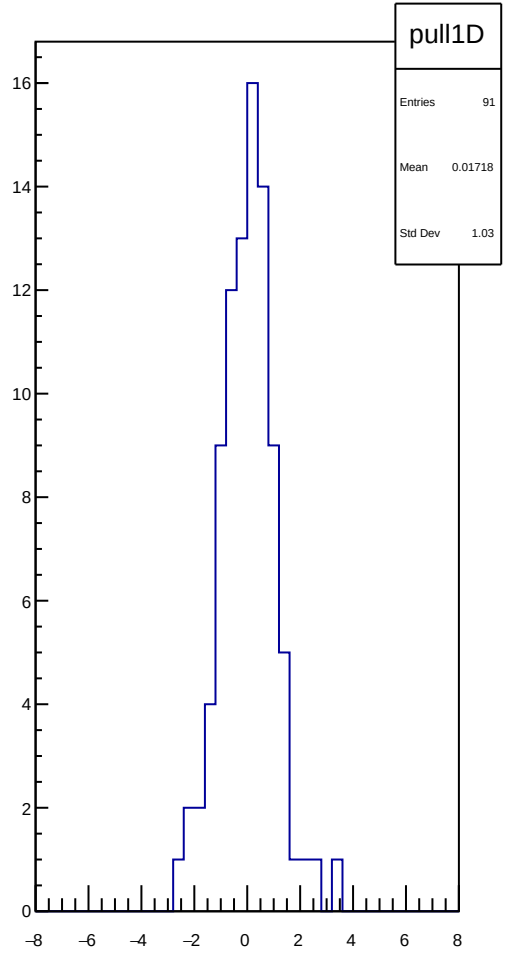

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 1.697e+05 / 90
p0 464.9 ± 0.3699
1000
900
800
700
600
500
400
300
200

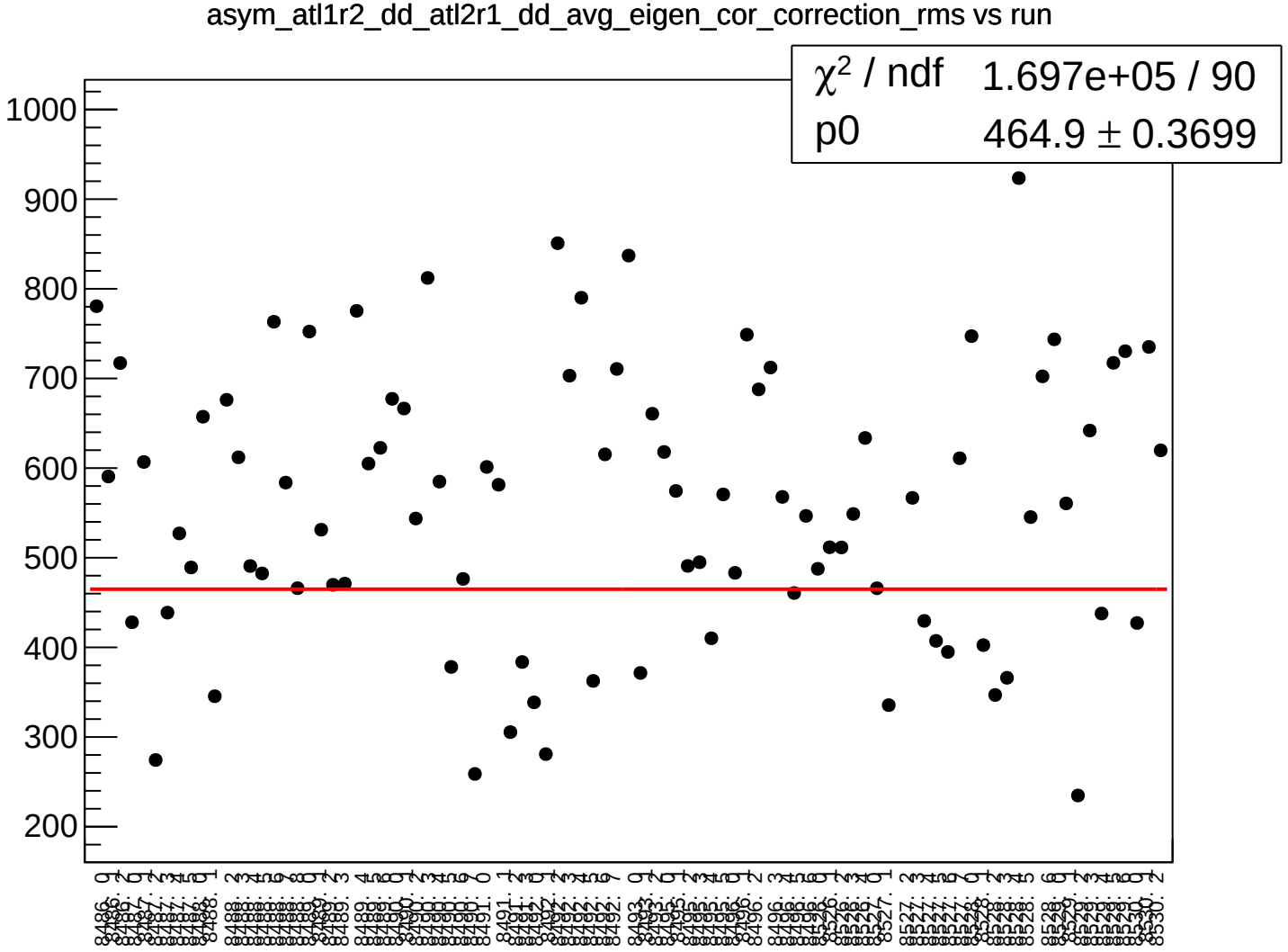

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
×10^3
χ² / ndf 68.9 / 90
p0 −9799 ± 1.667e+04
pull
Entries 91
Mean 1.532e+04
Std Dev 0

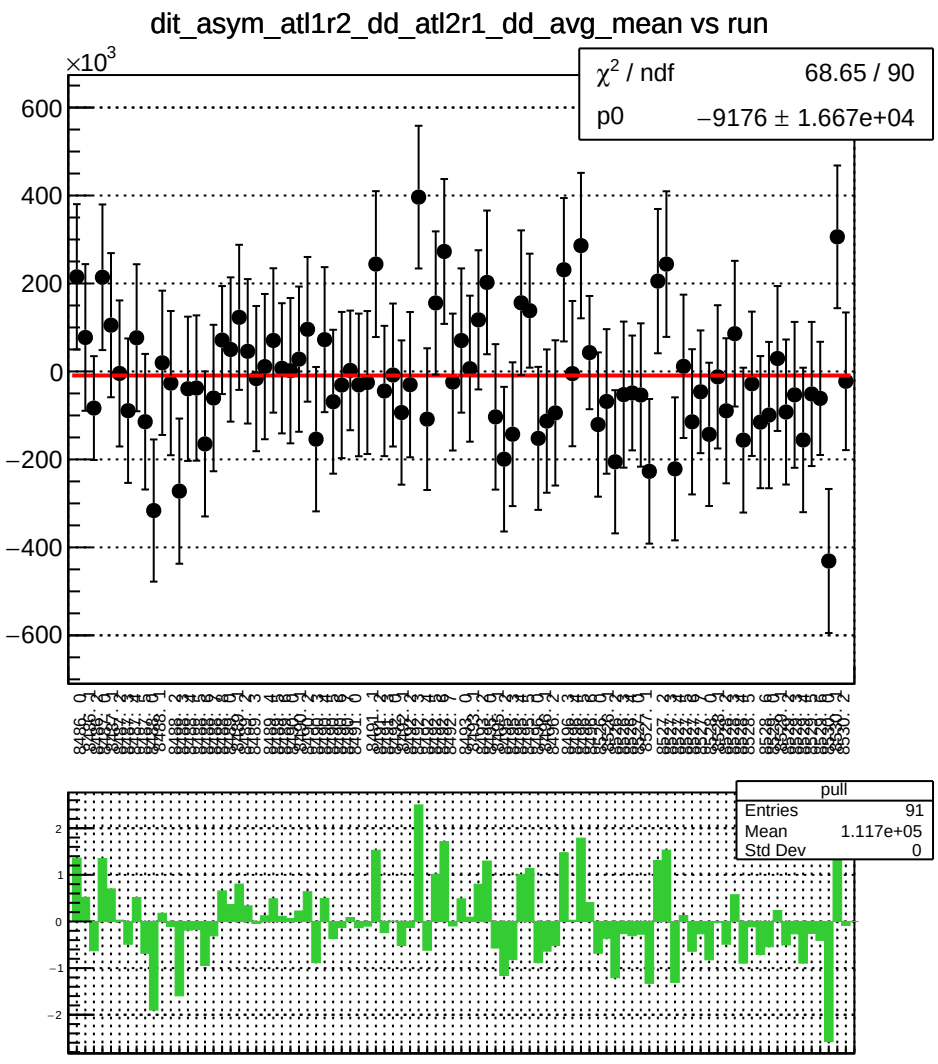

pull1D
Entries 91
Mean −0.0002116
Std Dev 0.8701

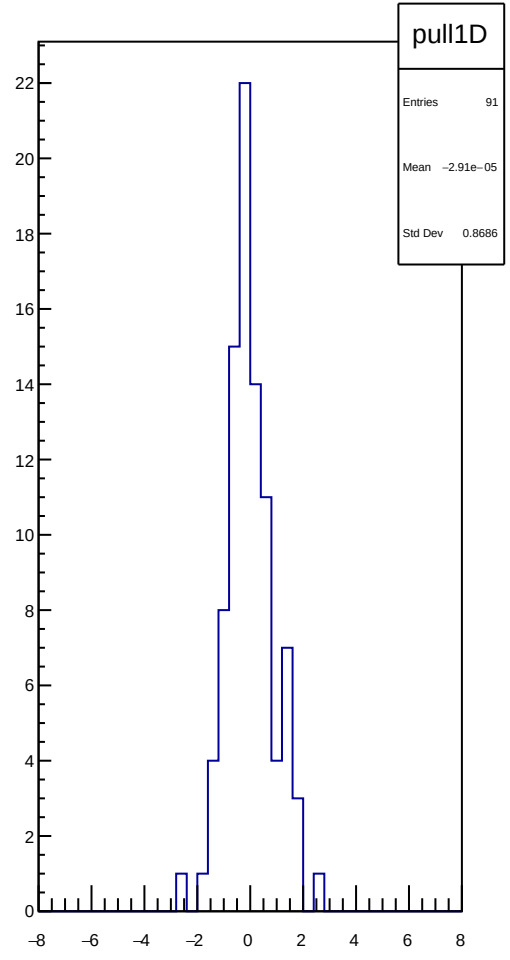

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 96.1 / 90
p0 1.559e+04 ± 11.79
16000
15900
15800
15700
15600
15500
15400
15300
15200
15100

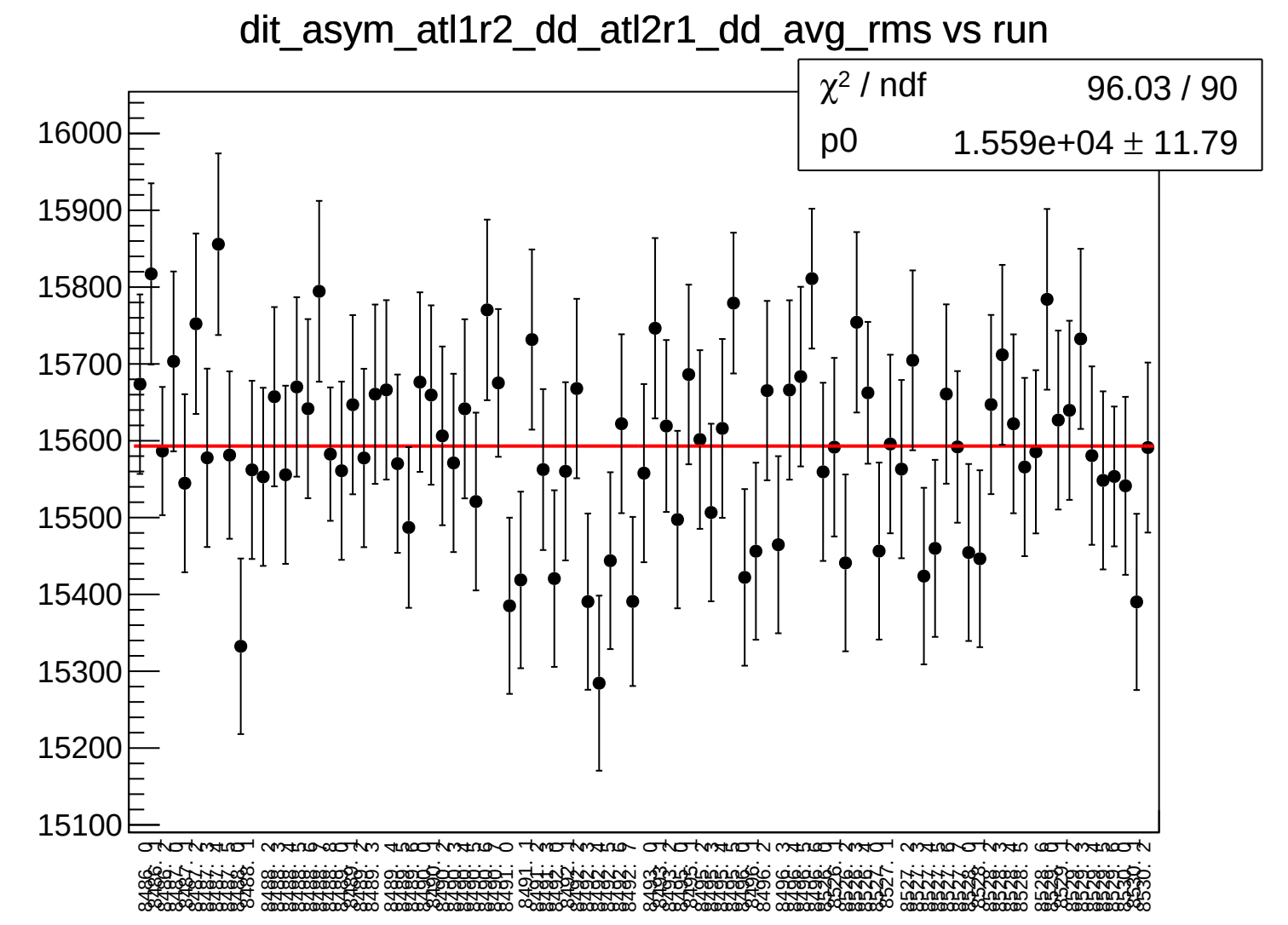

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 96.59 / 90
p0 −286.7 ± 523.2
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 21.85
Std Dev 0
3
2
1
0
−1
−2

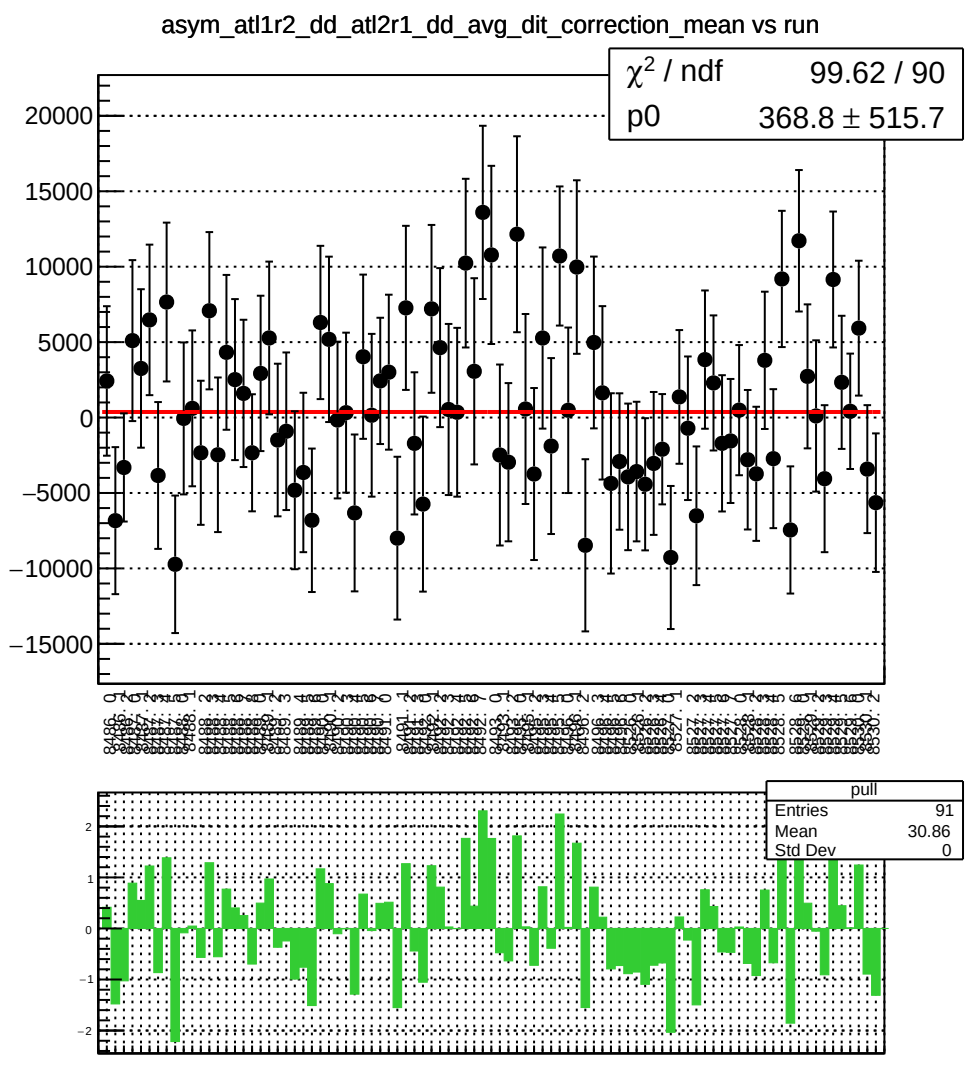

pull1D
Entries 91
Mean 0.01718
Std Dev 1.03
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

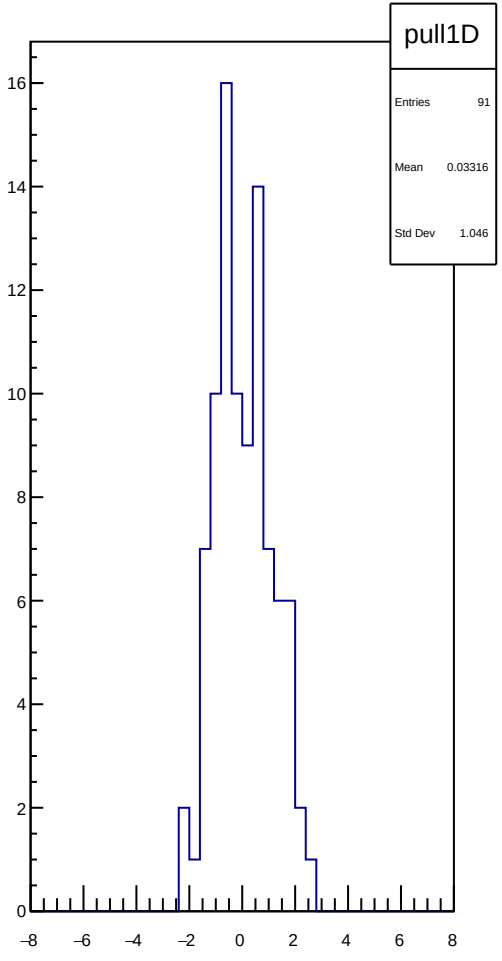

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.697e+05 / 90
p0 464.9 ± 0.3699
1000
900
800
700
600
500
400
300
200

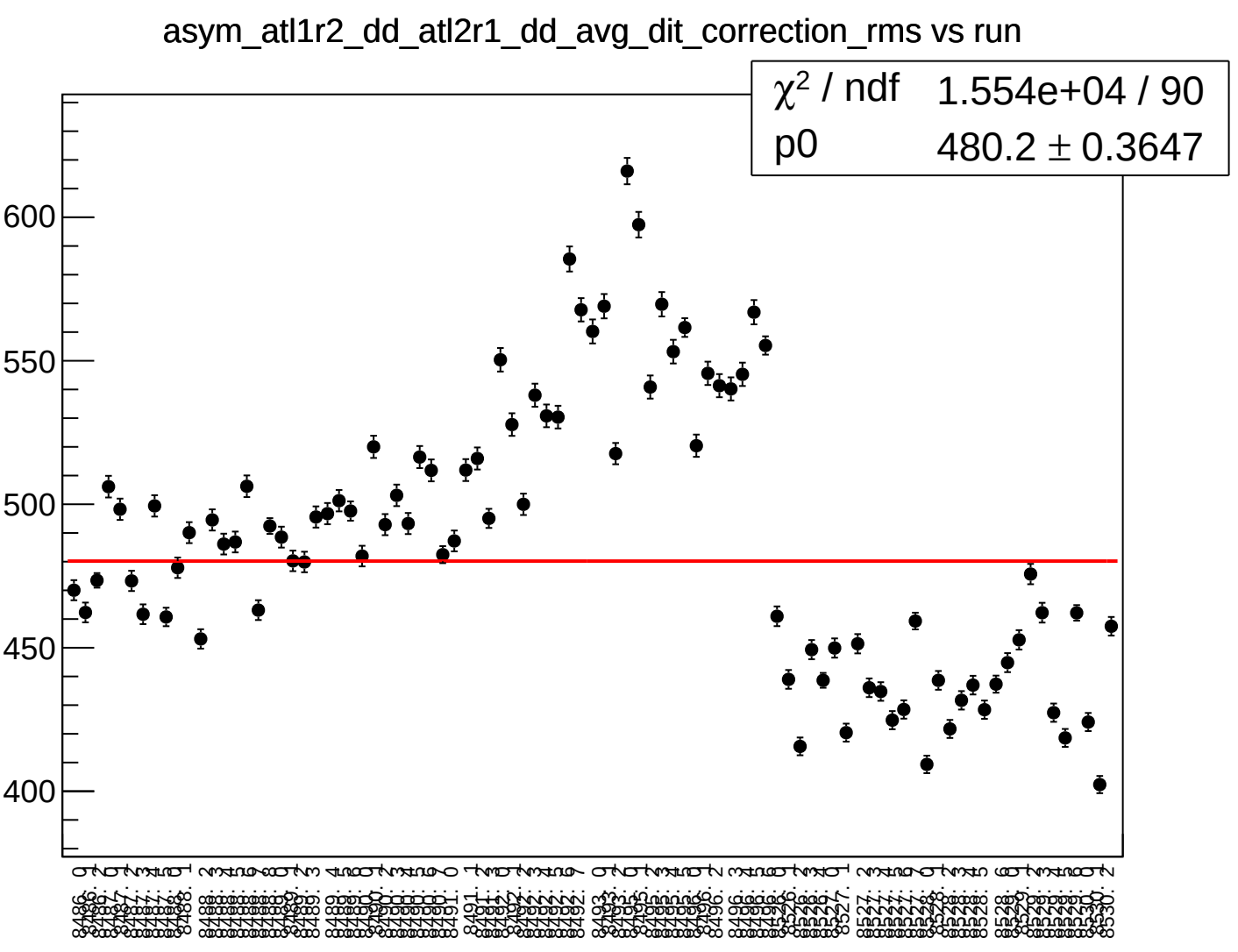

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
×10^3
χ² / ndf 68.65 / 90
p0 −9176 ± 1.667e+04
pull
Entries 91
Mean 1.117e+05
Std Dev 0

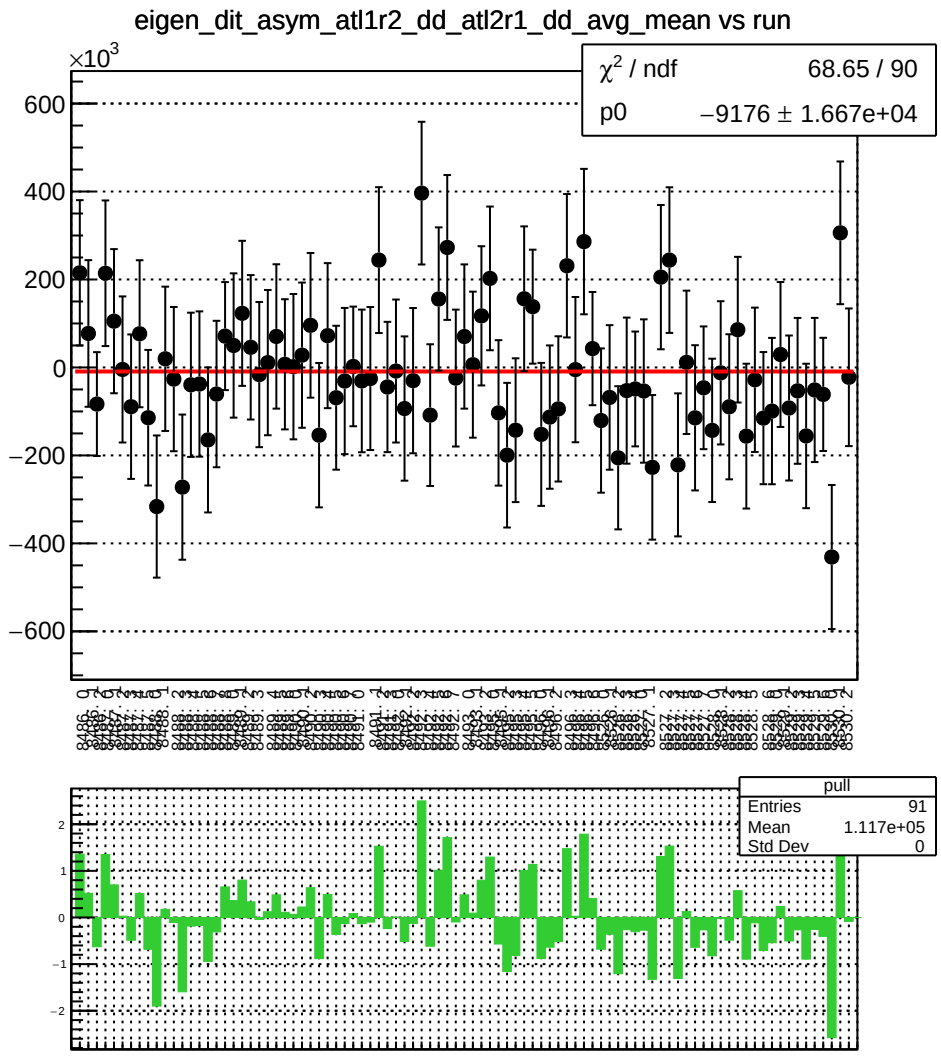

pull1D
Entries 91
Mean −2.91e−05
Std Dev 0.8686

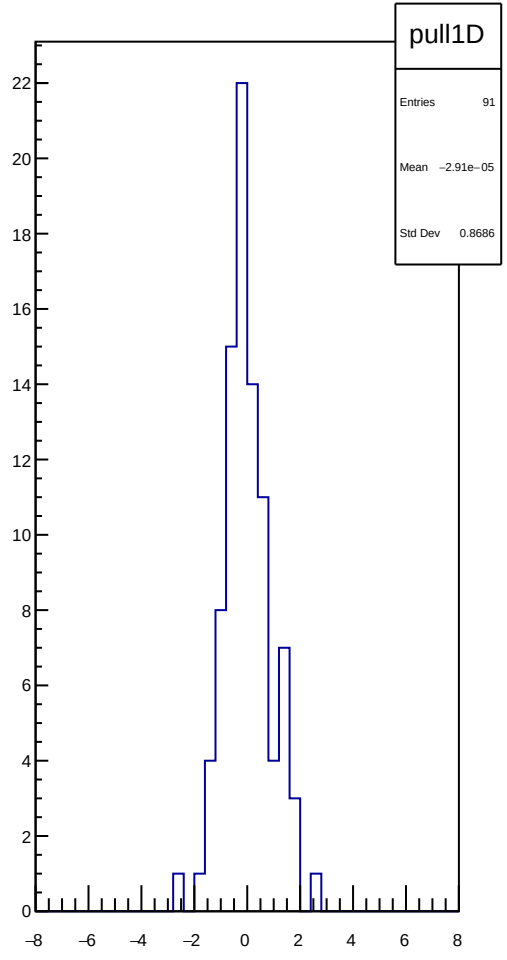

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 96.03 / 90
p0 1.559e+04 ± 11.79
16000
15900
15800
15700
15600
15500
15400
15300
15200
15100

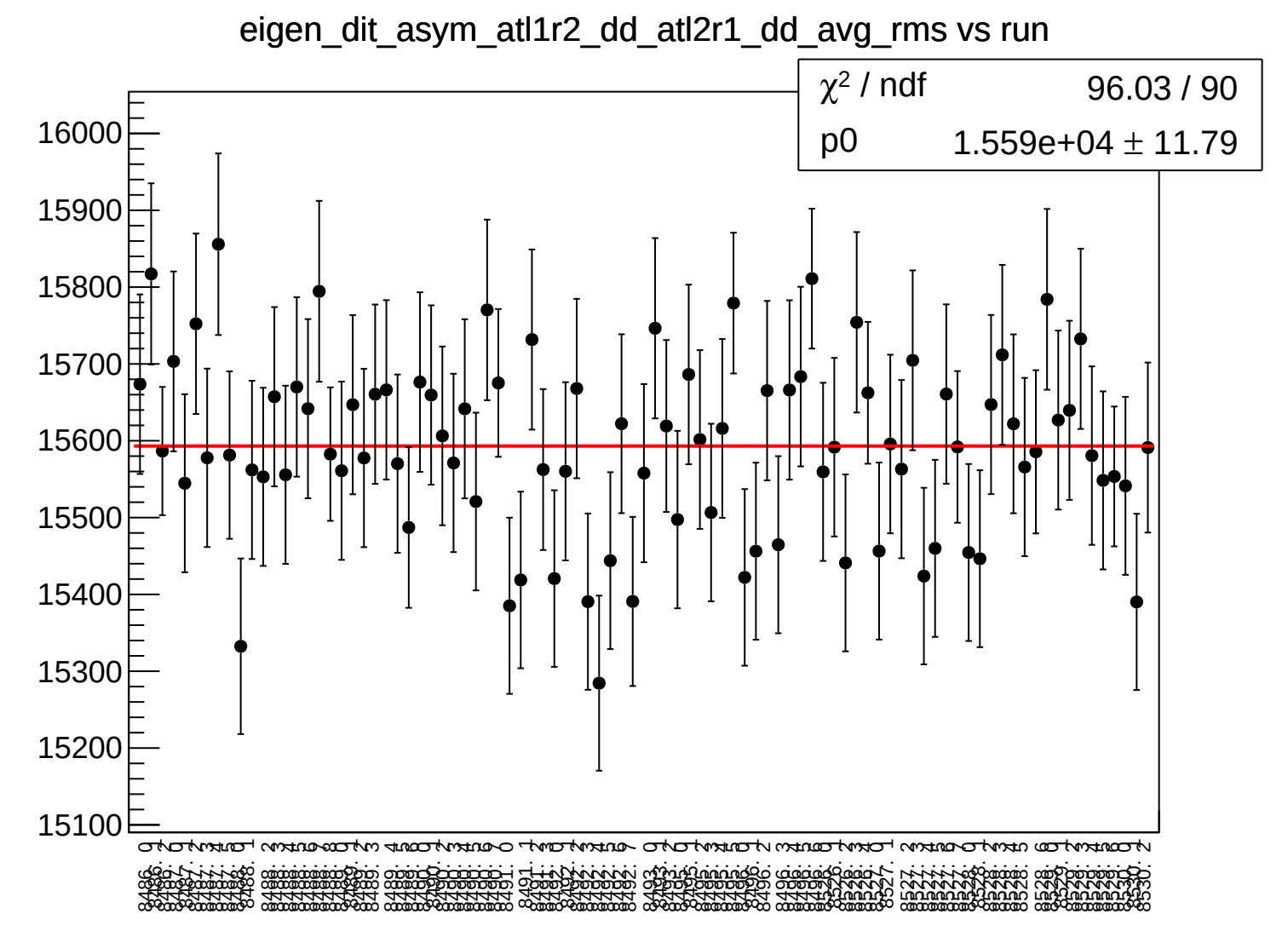

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 99.62 / 90
p0 368.8 ± 515.7
pull
Entries 91
Mean 30.86
Std Dev 0

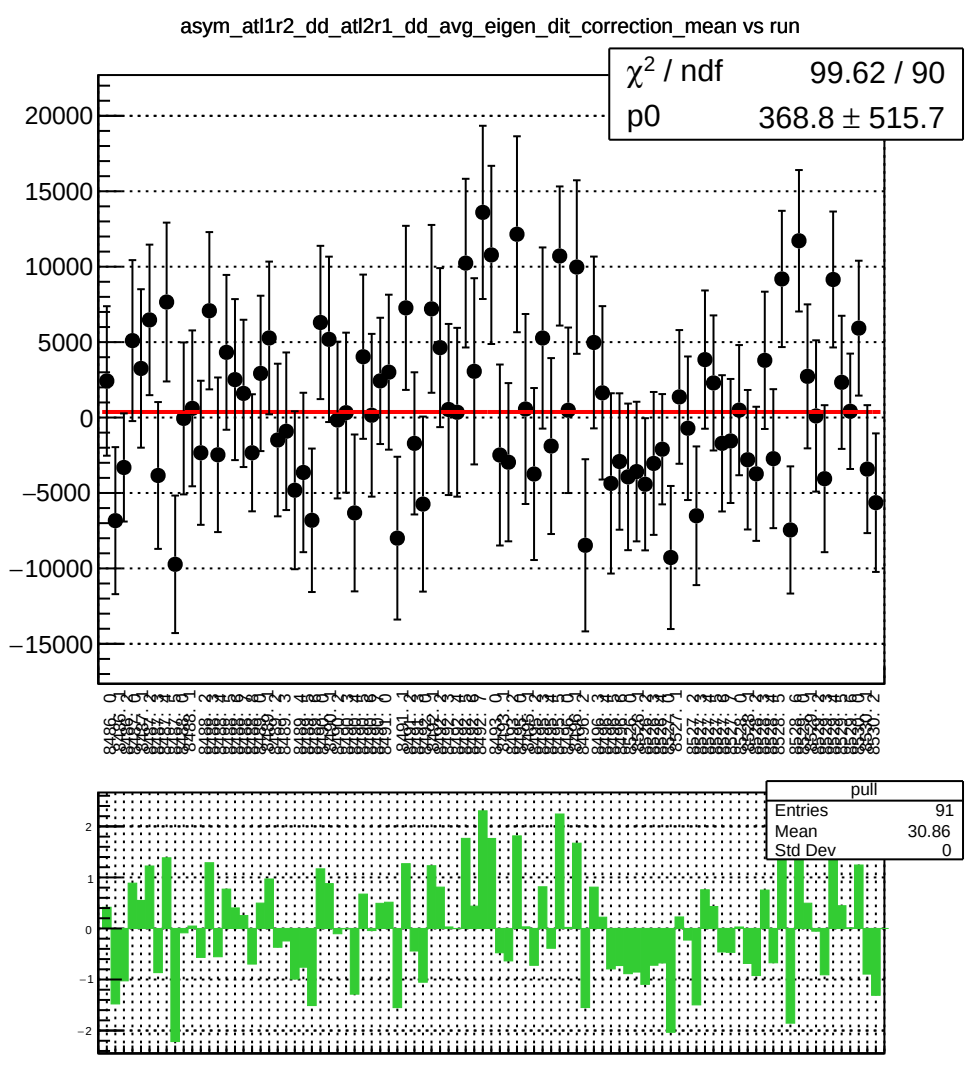

pull1D
Entries 91
Mean 0.03316
Std Dev 1.046

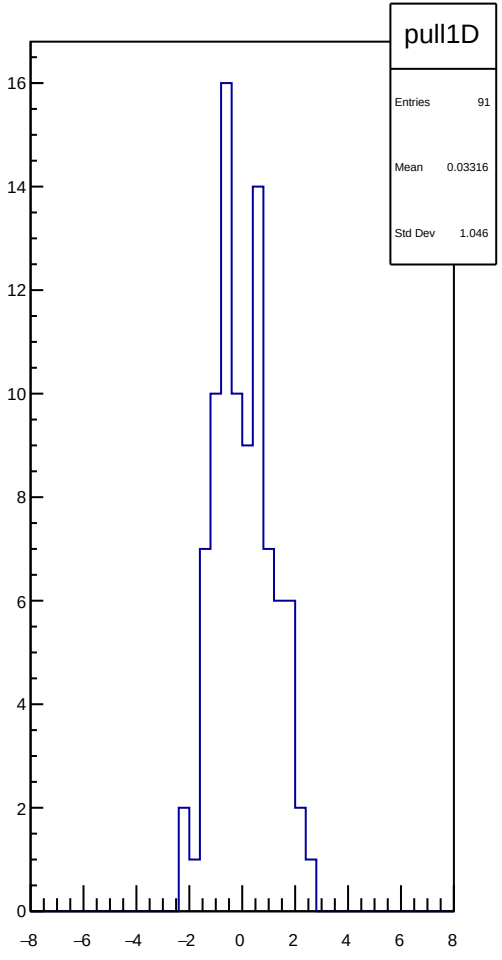

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 1.554e+04 / 90
p0 480.2 ± 0.3647
600
550
500
450
400

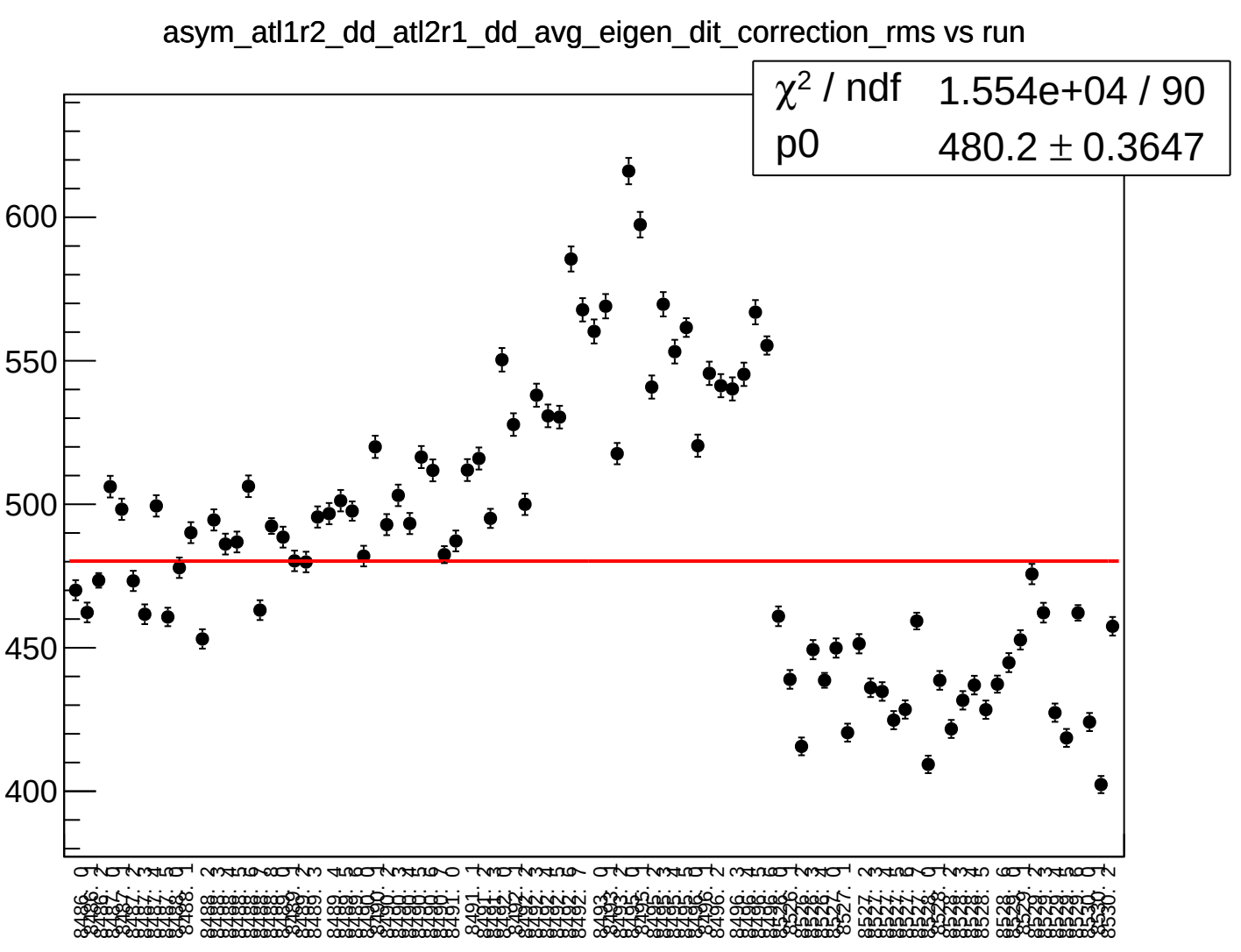

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
×10^3
χ² / ndf 68.65 / 90
p0 −9176 ± 1.667e+04
pull
Entries 91
Mean 1.117e+05
Std Dev 0

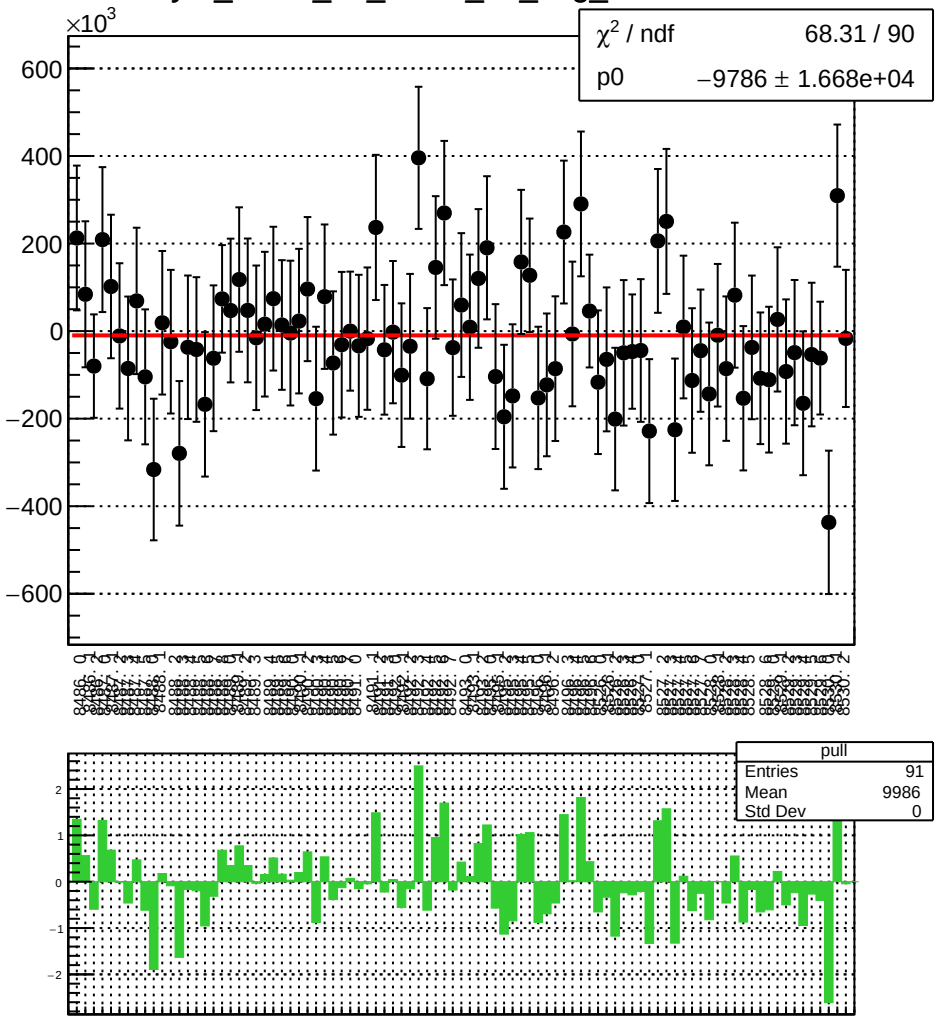

pull1D
Entries 91
Mean −2.91e−05
Std Dev 0.8686

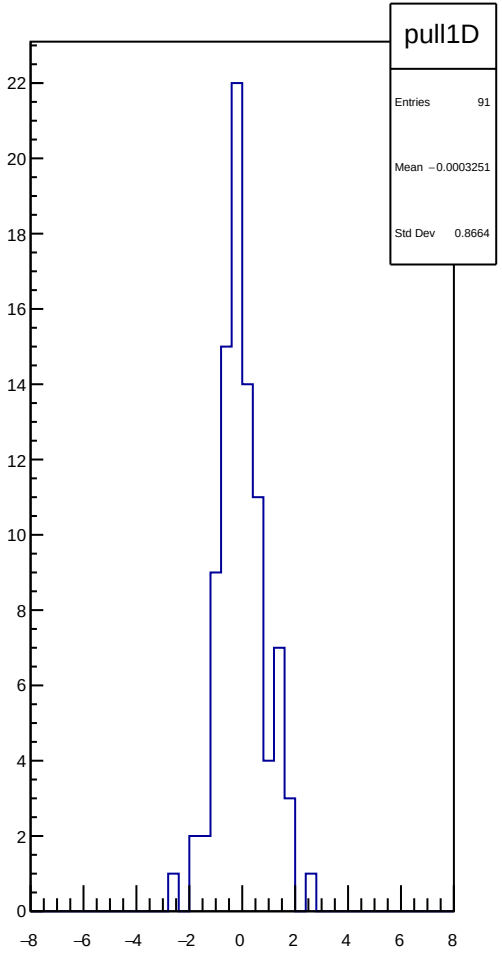

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 96.03 / 90
p0 1.559e+04 ± 11.79
16000
15900
15800
15700
15600
15500
15400
15300
15200
15100

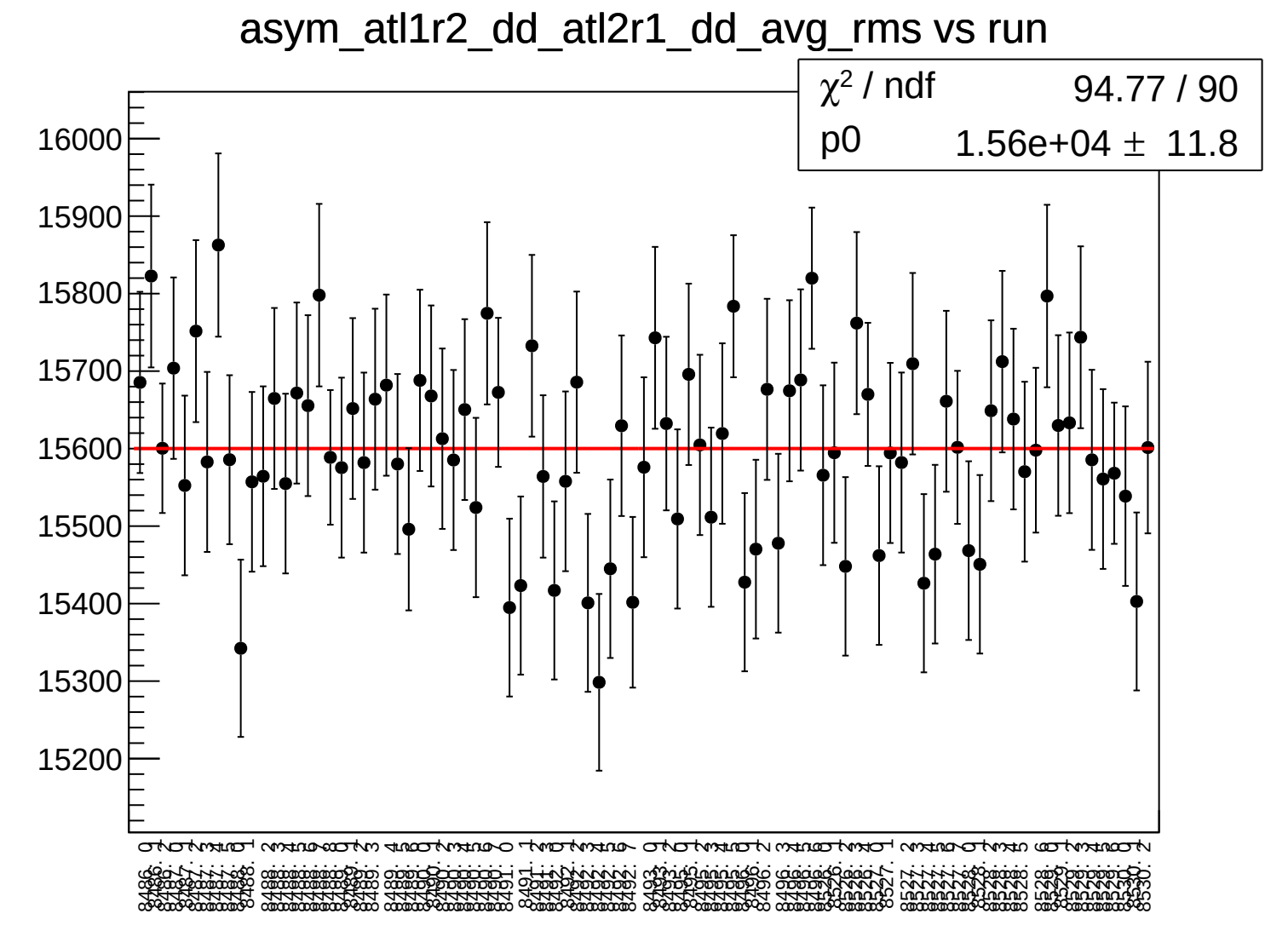

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 99.62 / 90
p0 368.8 ± 515.7
pull
Entries 91
Mean 30.86
Std Dev 0

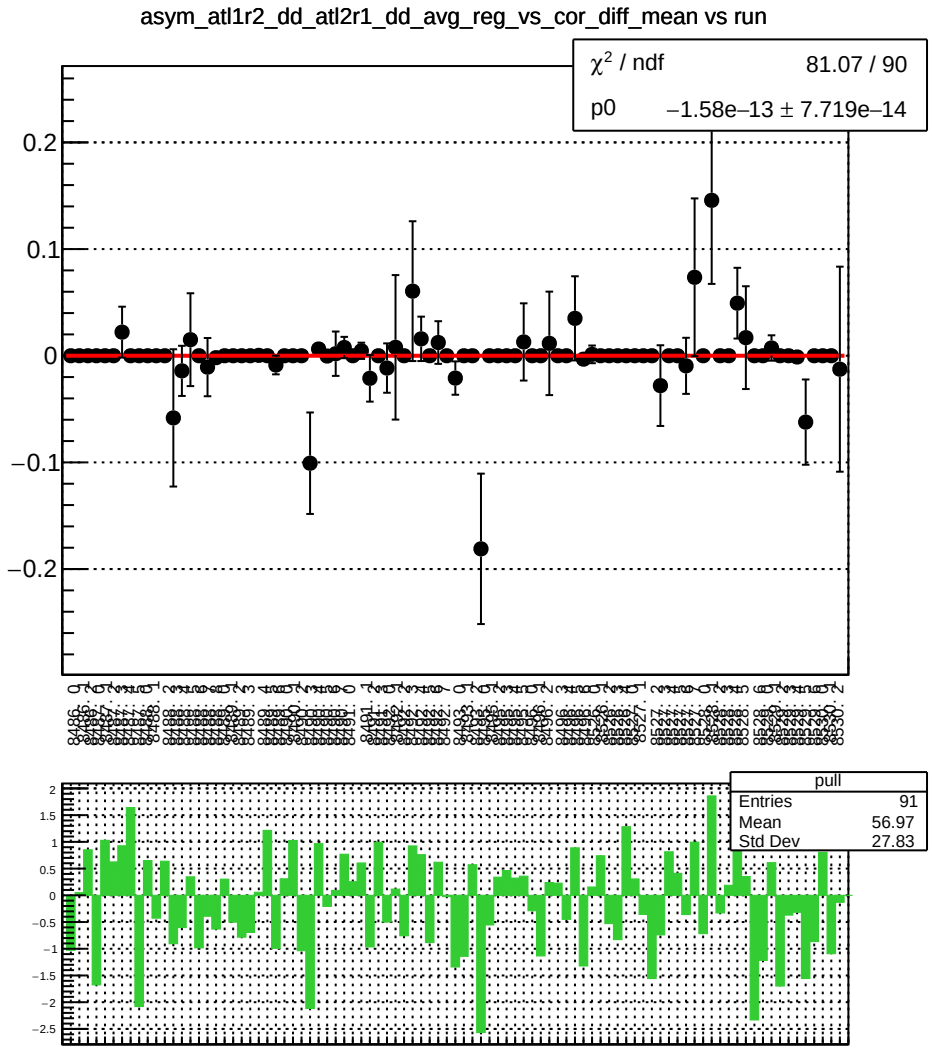

pull1D
Entries 91
Mean 0.03316
Std Dev 1.046

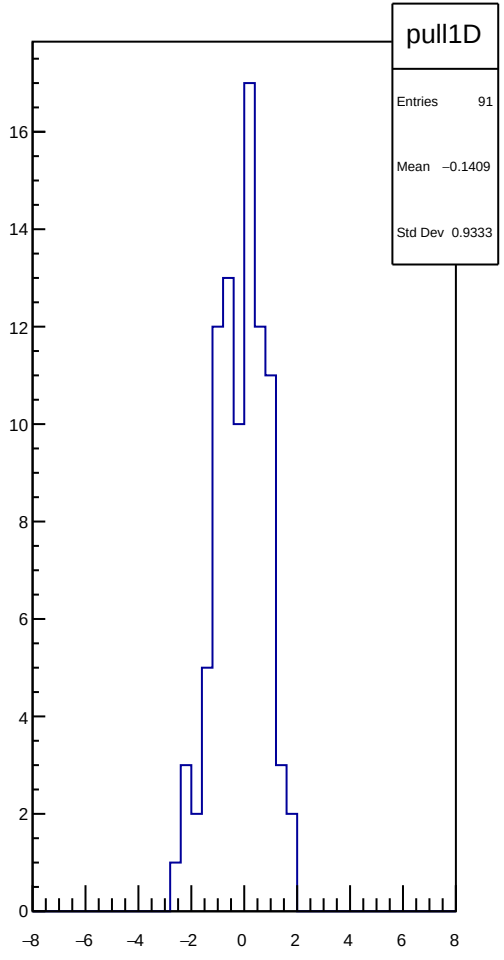

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.554e+04 / 90
p0 480.2 ± 0.3647
600
550
500
450
400

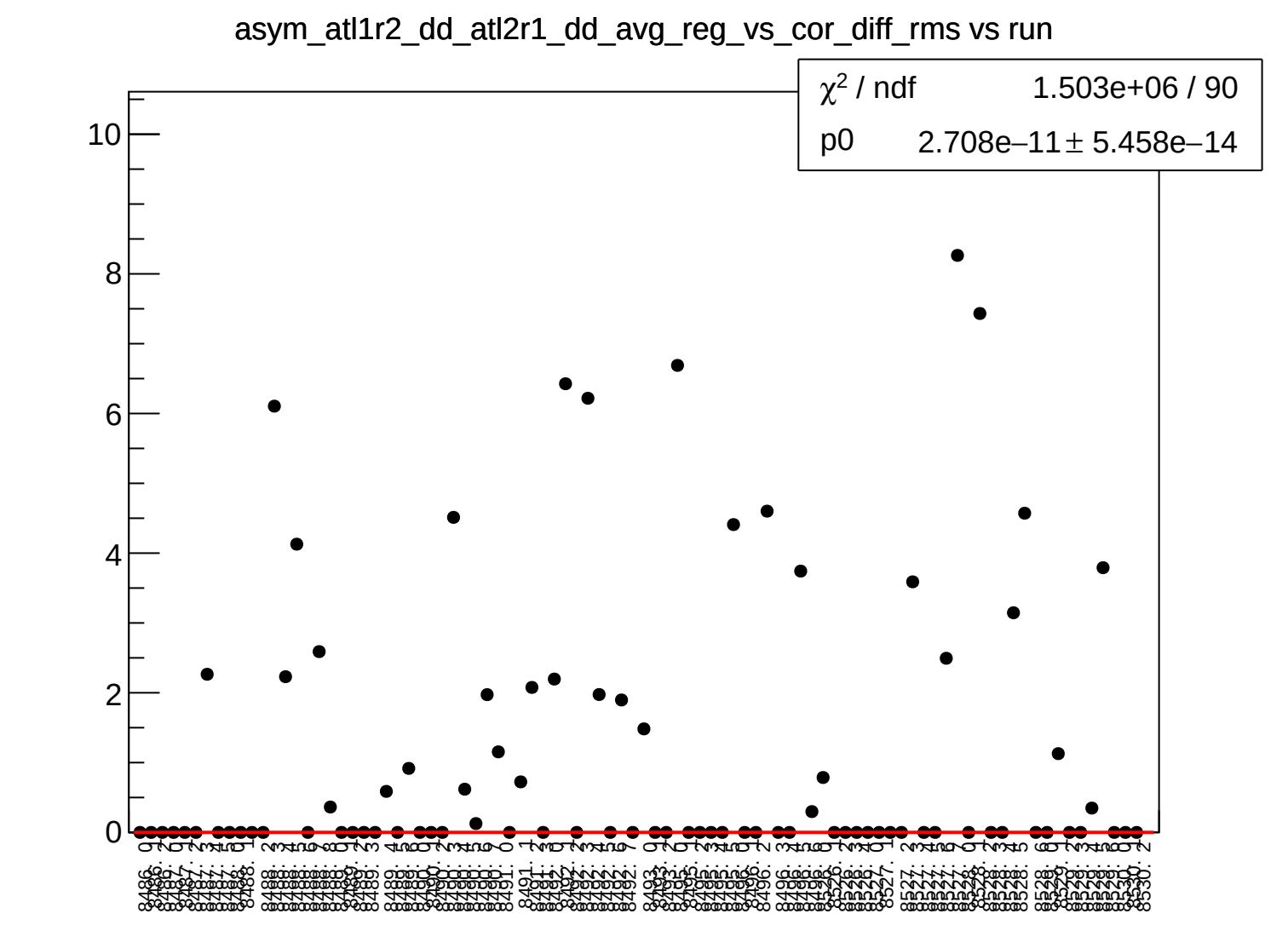

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
×10^3
χ² / ndf 68.31 / 90
p0 −9786 ± 1.668e+04
pull
Entries 91
Mean 9986
Std Dev 0

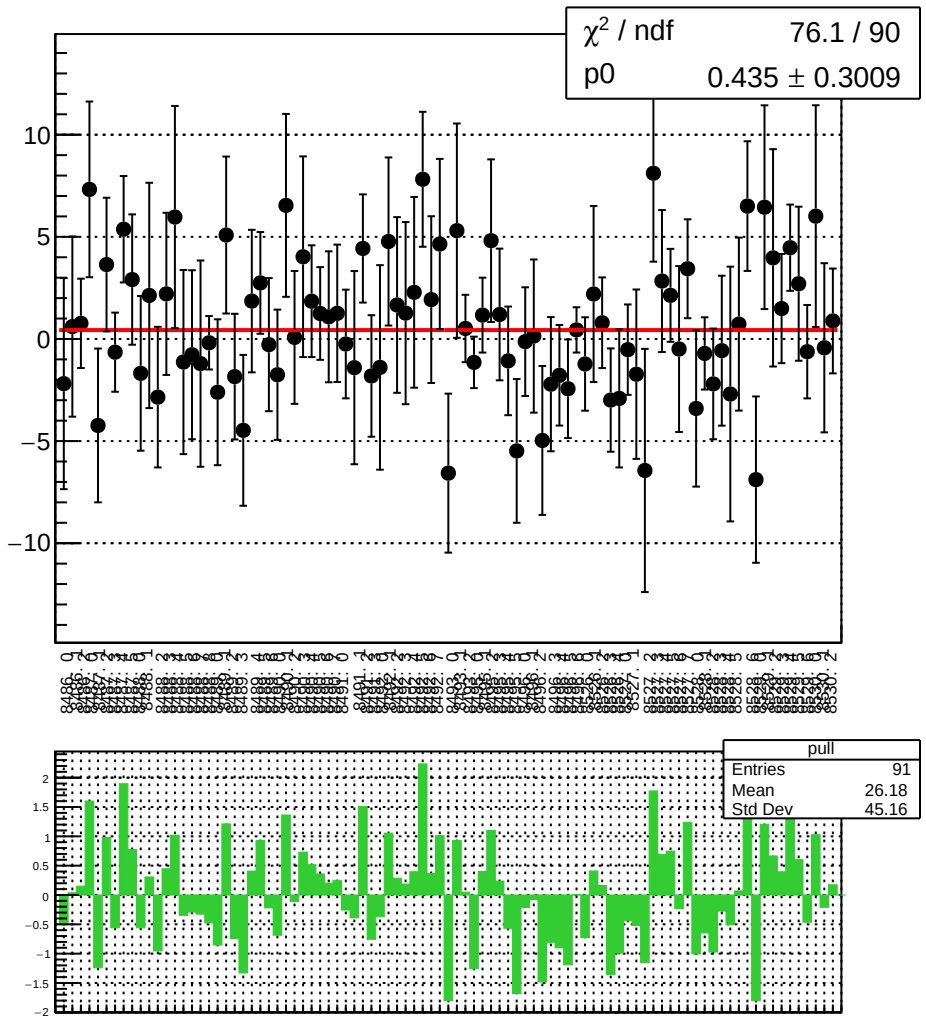

pull1D
Entries 91
Mean −0.0003251
Std Dev 0.8664

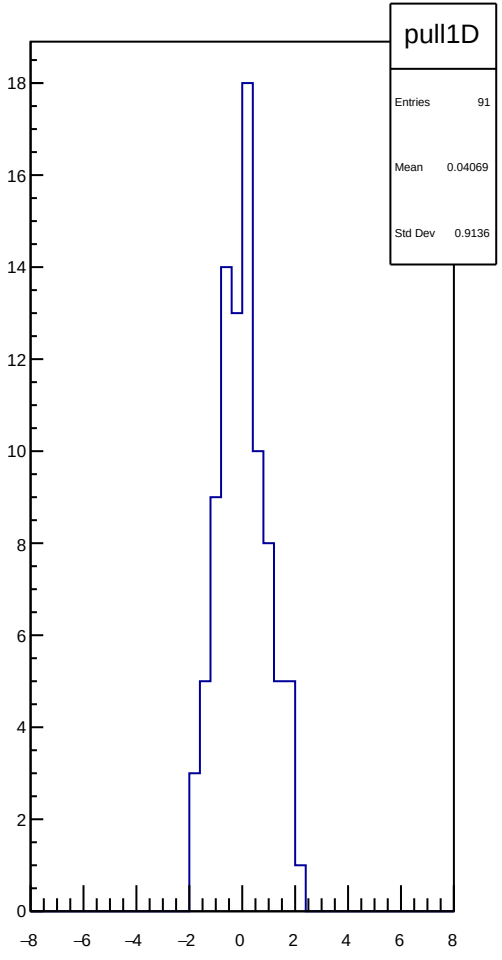

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 94.77 / 90
p0 1.56e+04 ± 11.8
16000
15900
15800
15700
15600
15500
15400
15300
15200

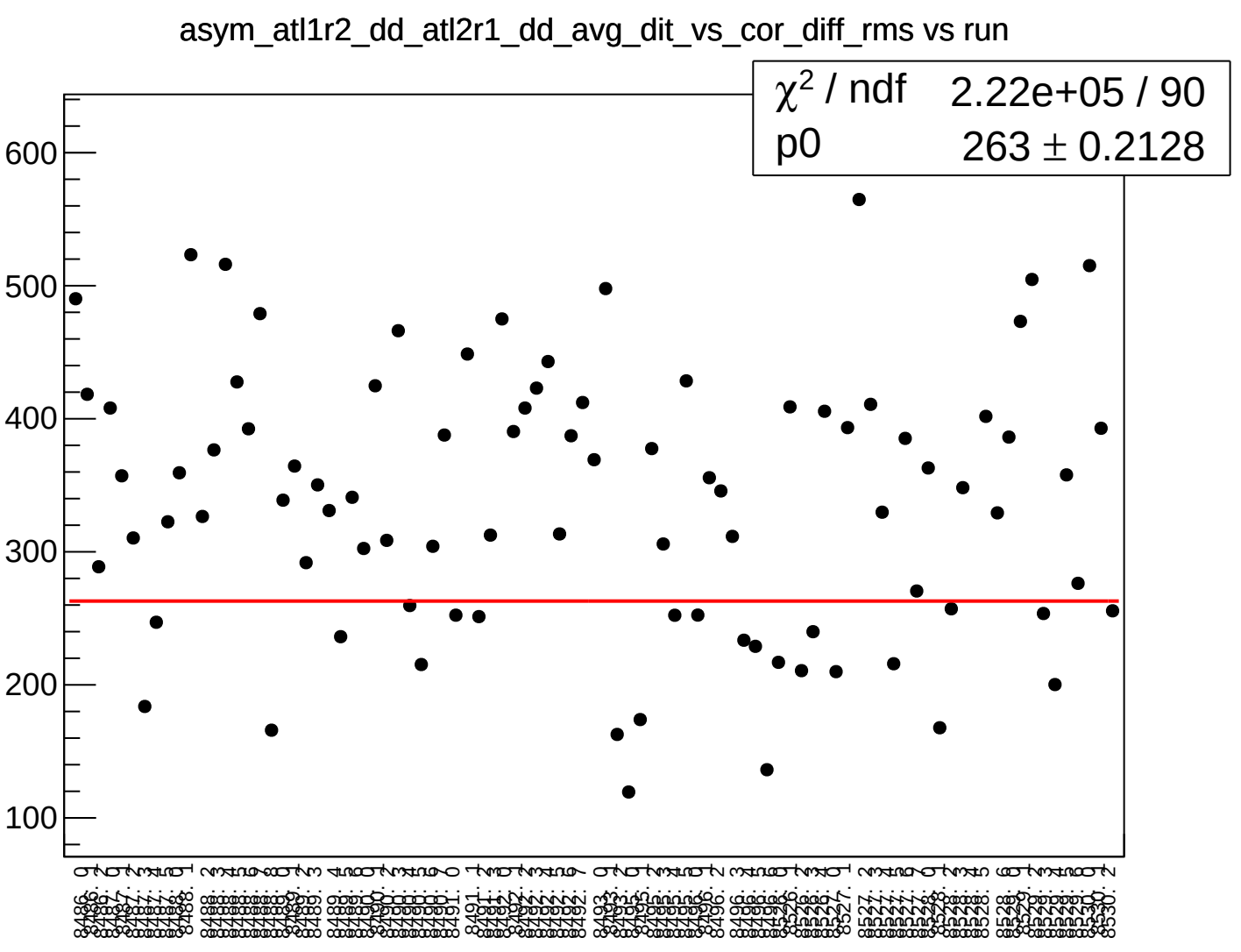

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 81.07 / 90
p0 −1.58e−13 ± 7.719e−14
pull
Entries 91
Mean 56.97
Std Dev 27.83

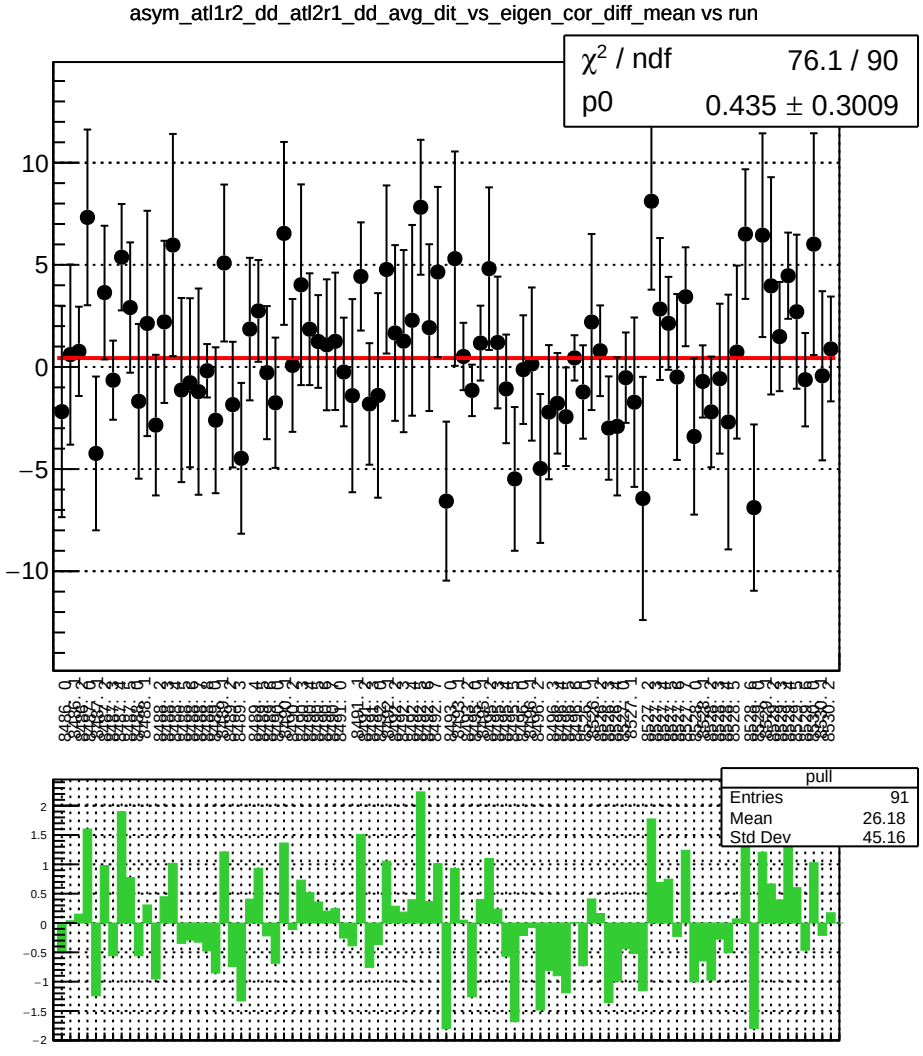

pull1D
Entries 91
Mean −0.1409
Std Dev 0.9333

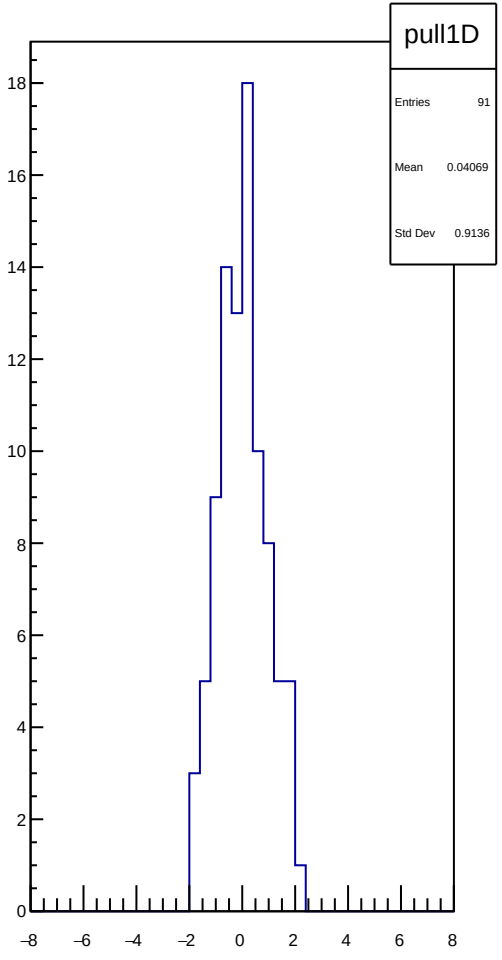

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.503e+06 / 90
p0 2.708e−11 ± 5.458e−14
10
8
6
4
2
0

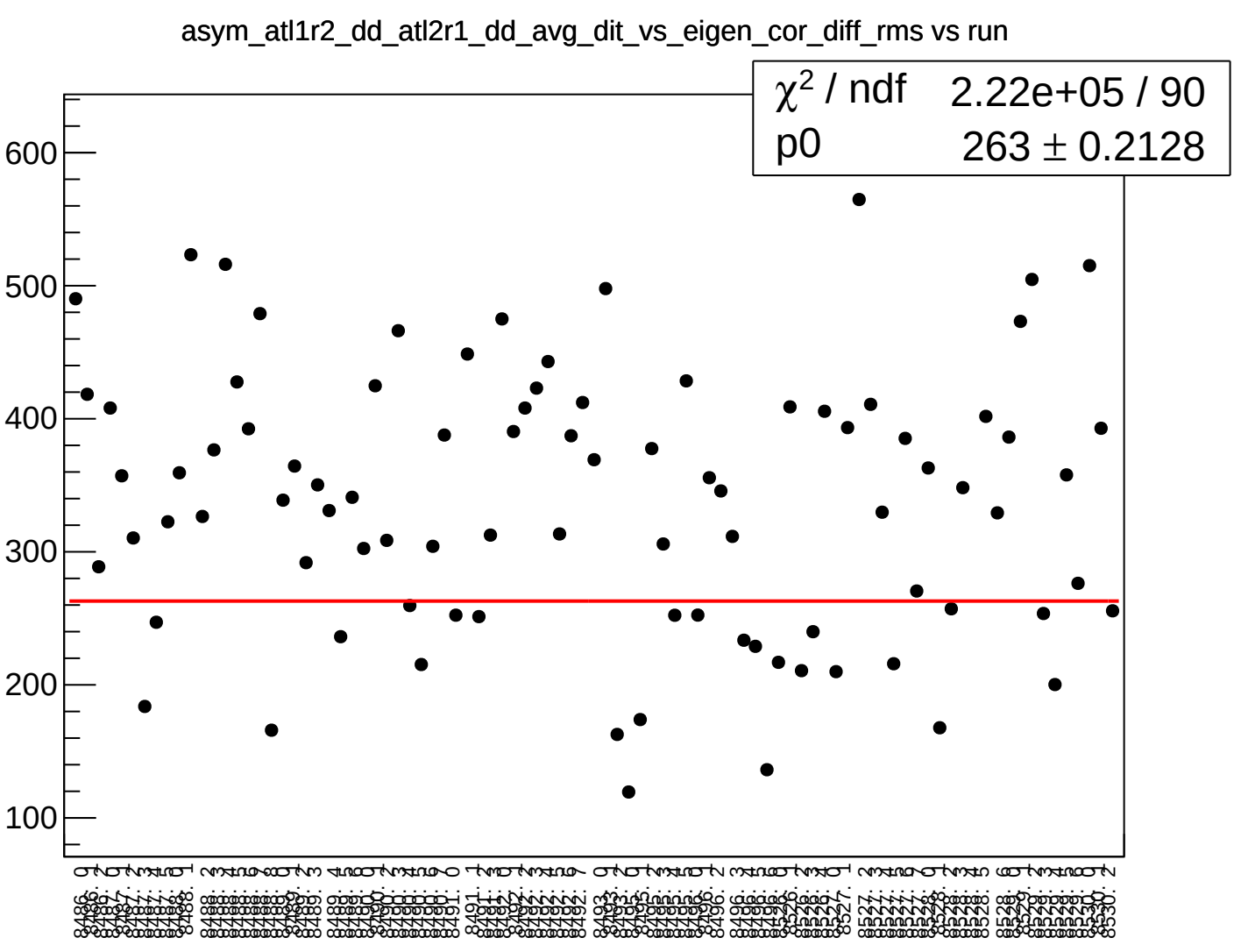

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 76.1 / 90
p0 0.435 ± 0.3009
pull
Entries 91
Mean 26.18
Std Dev 45.16

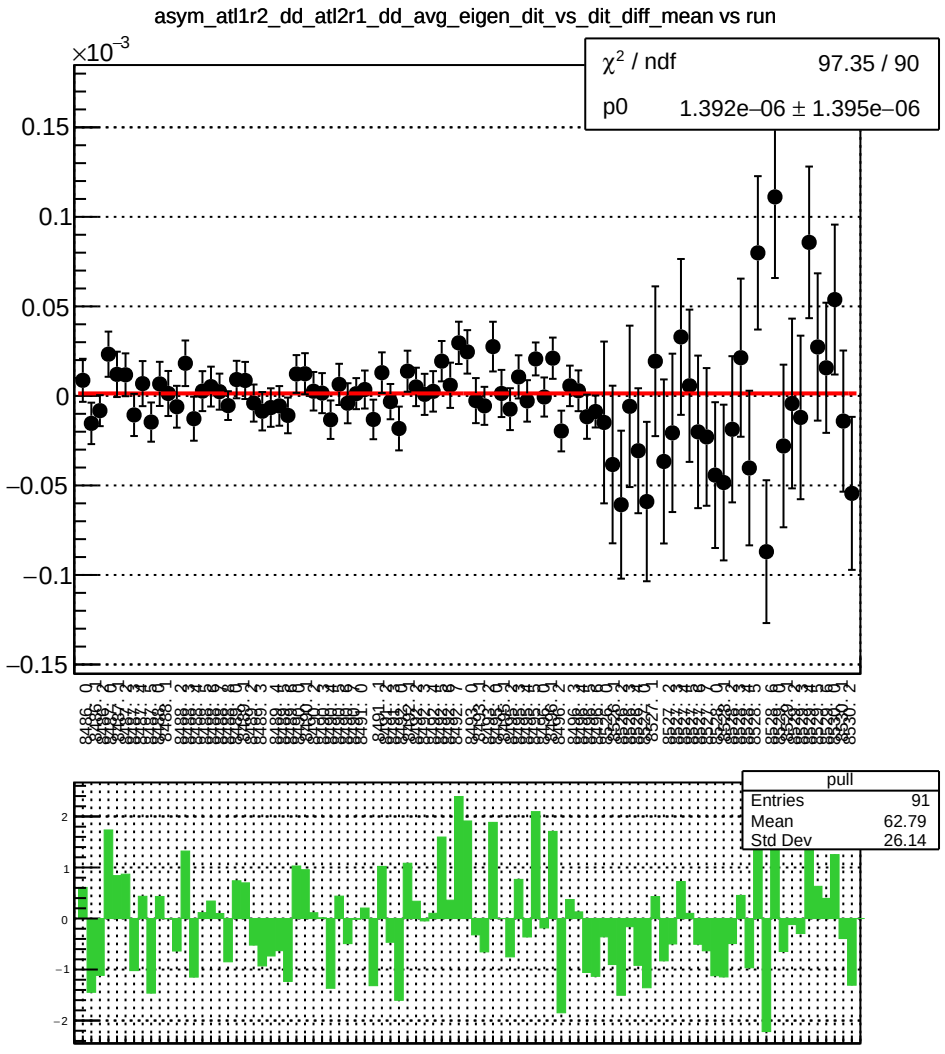

pull1D
Entries 91
Mean 0.04069
Std Dev 0.9136

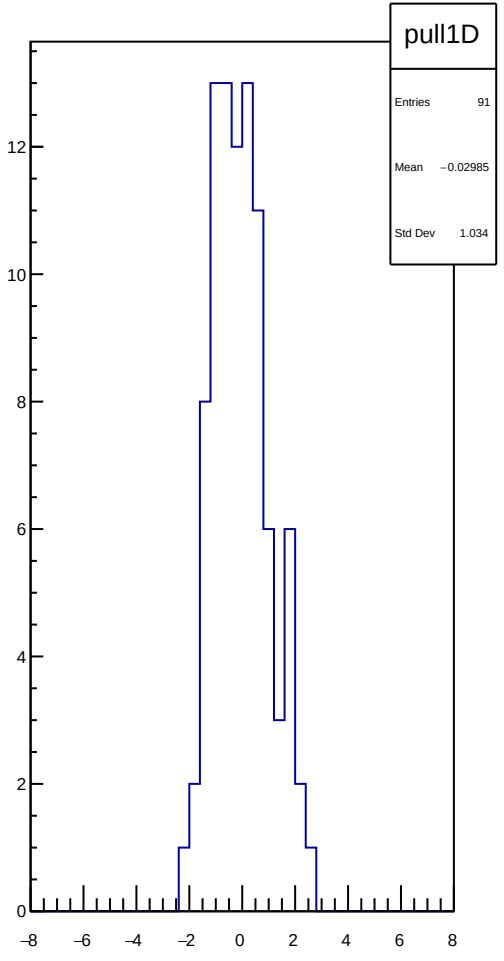

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.22e+05 / 90
p0 263 ± 0.2128
600
500
400
300
200
100

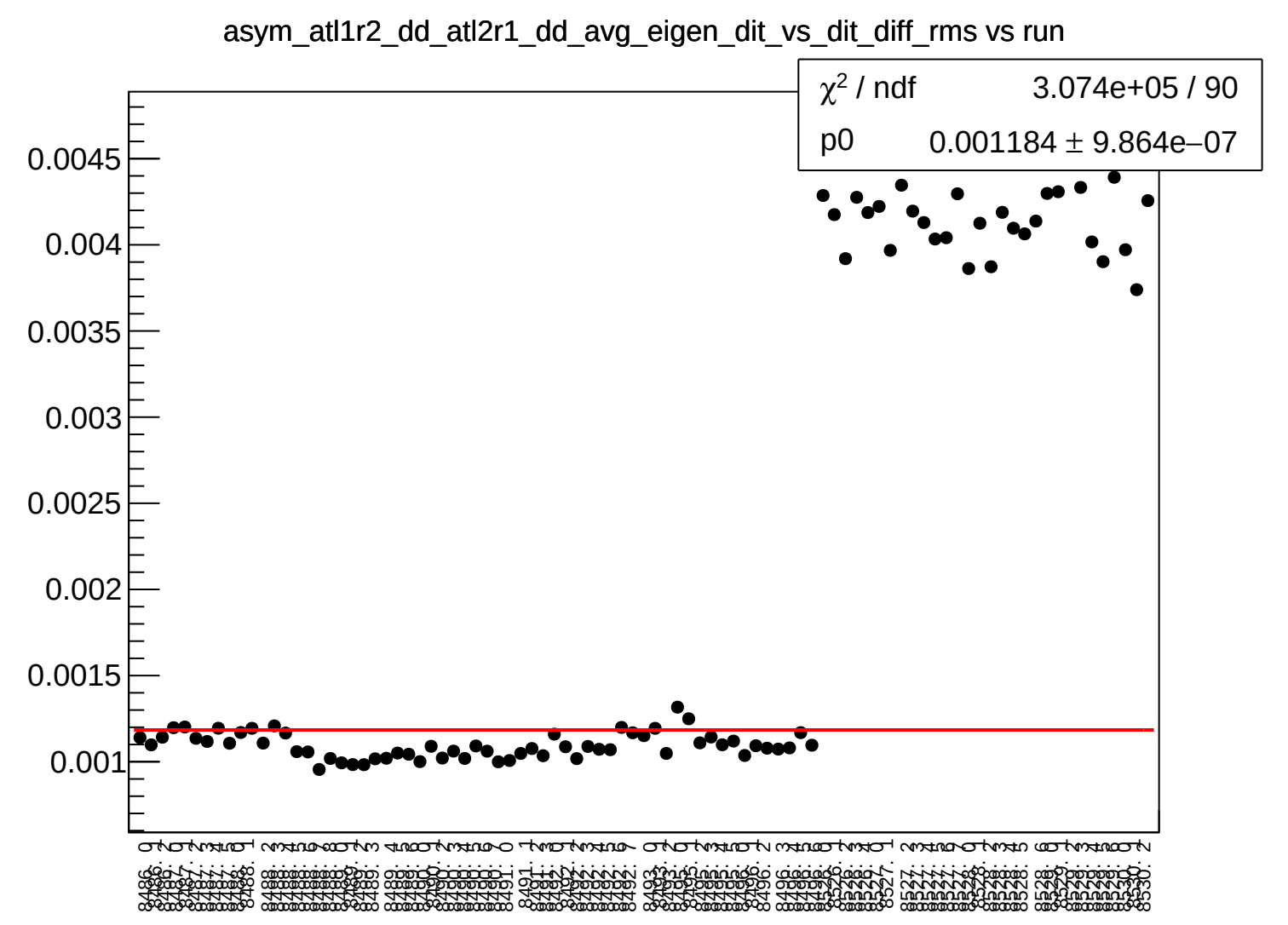

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.1 / 90
p0 0.435 ± 0.3009
pull
Entries 91
Mean 26.18
Std Dev 45.16

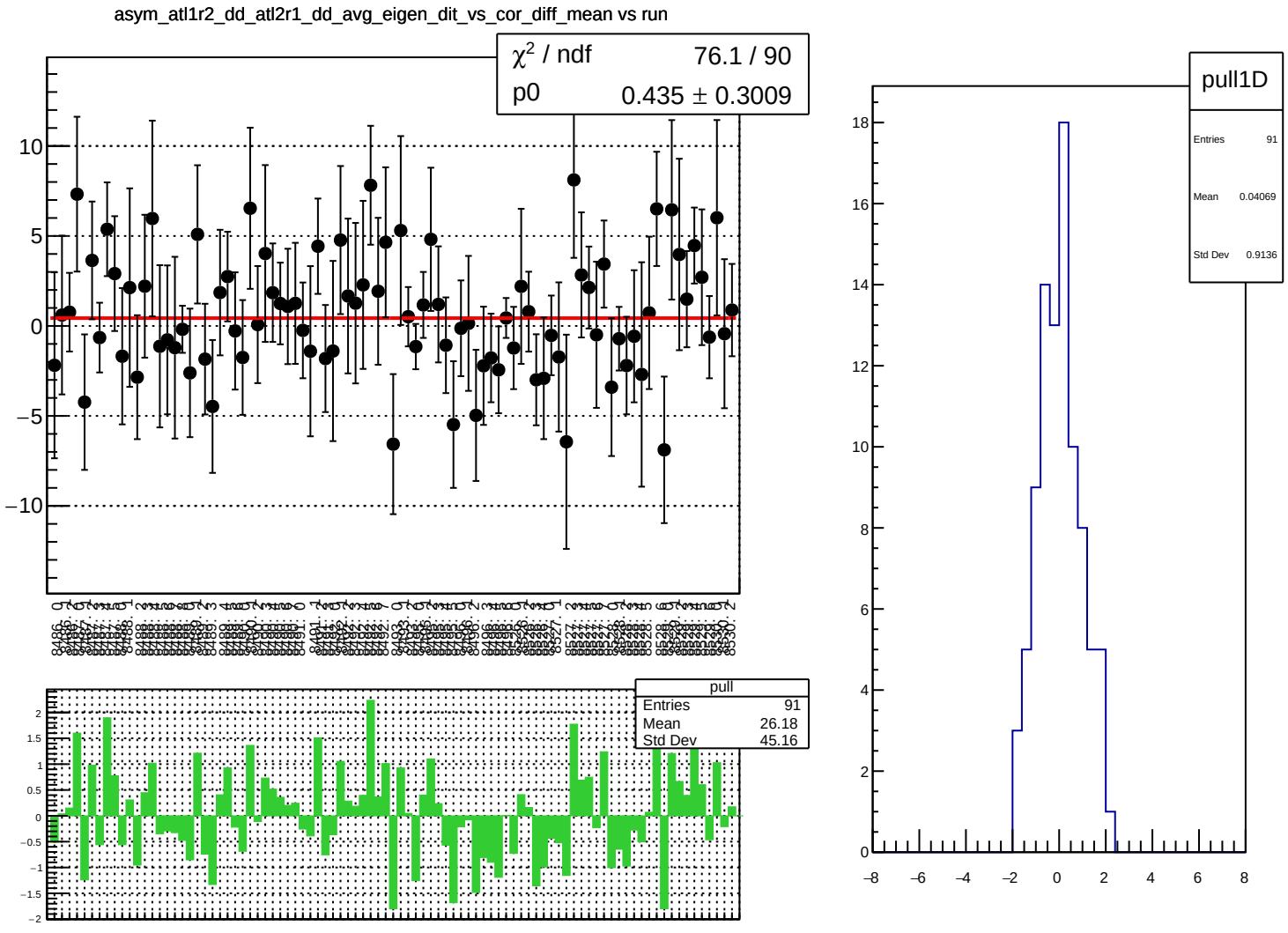

pull1D
Entries 91
Mean 0.04069
Std Dev 0.9136

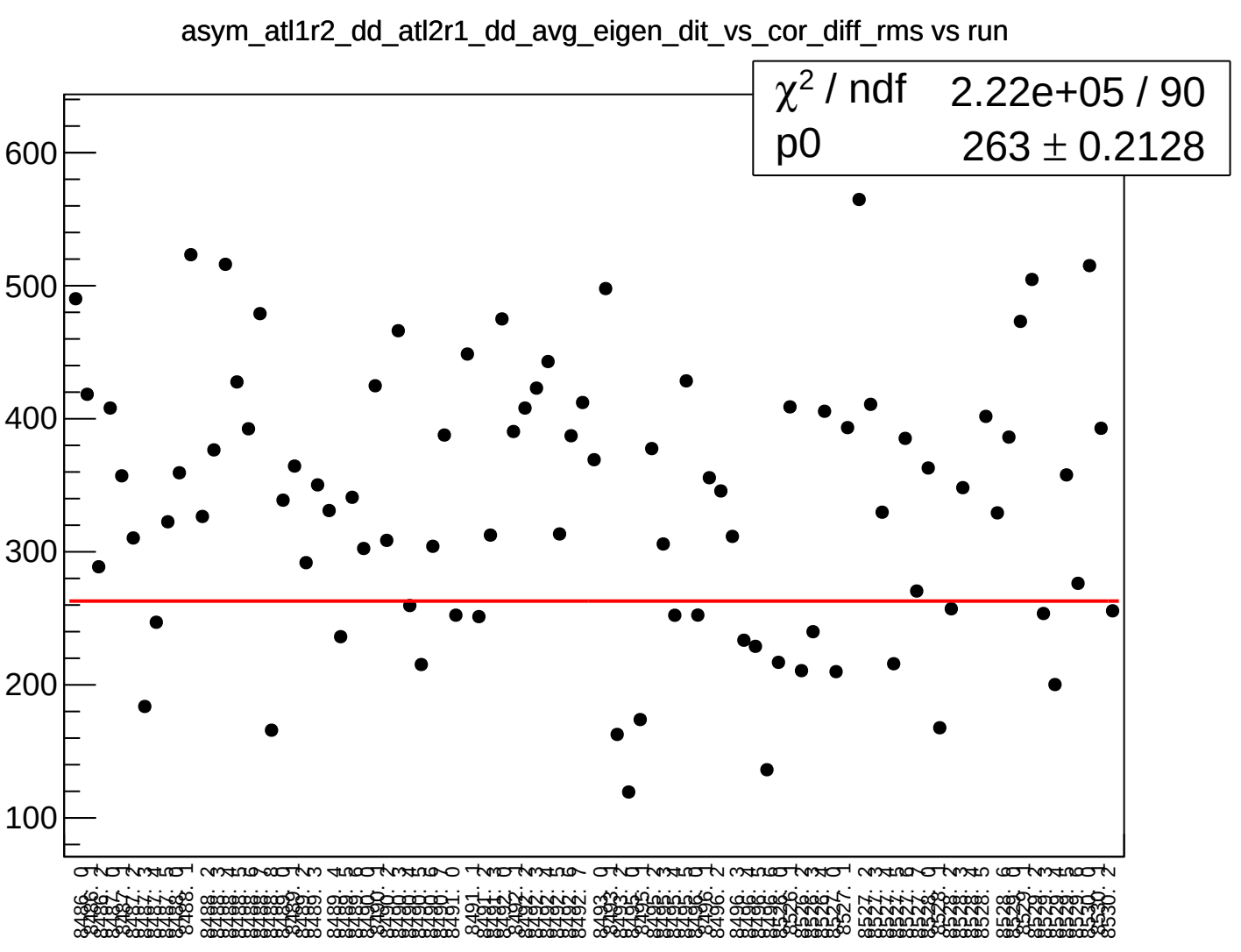

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.22e+05 / 90
p0 263 ± 0.2128
600
500
400
300
200
100

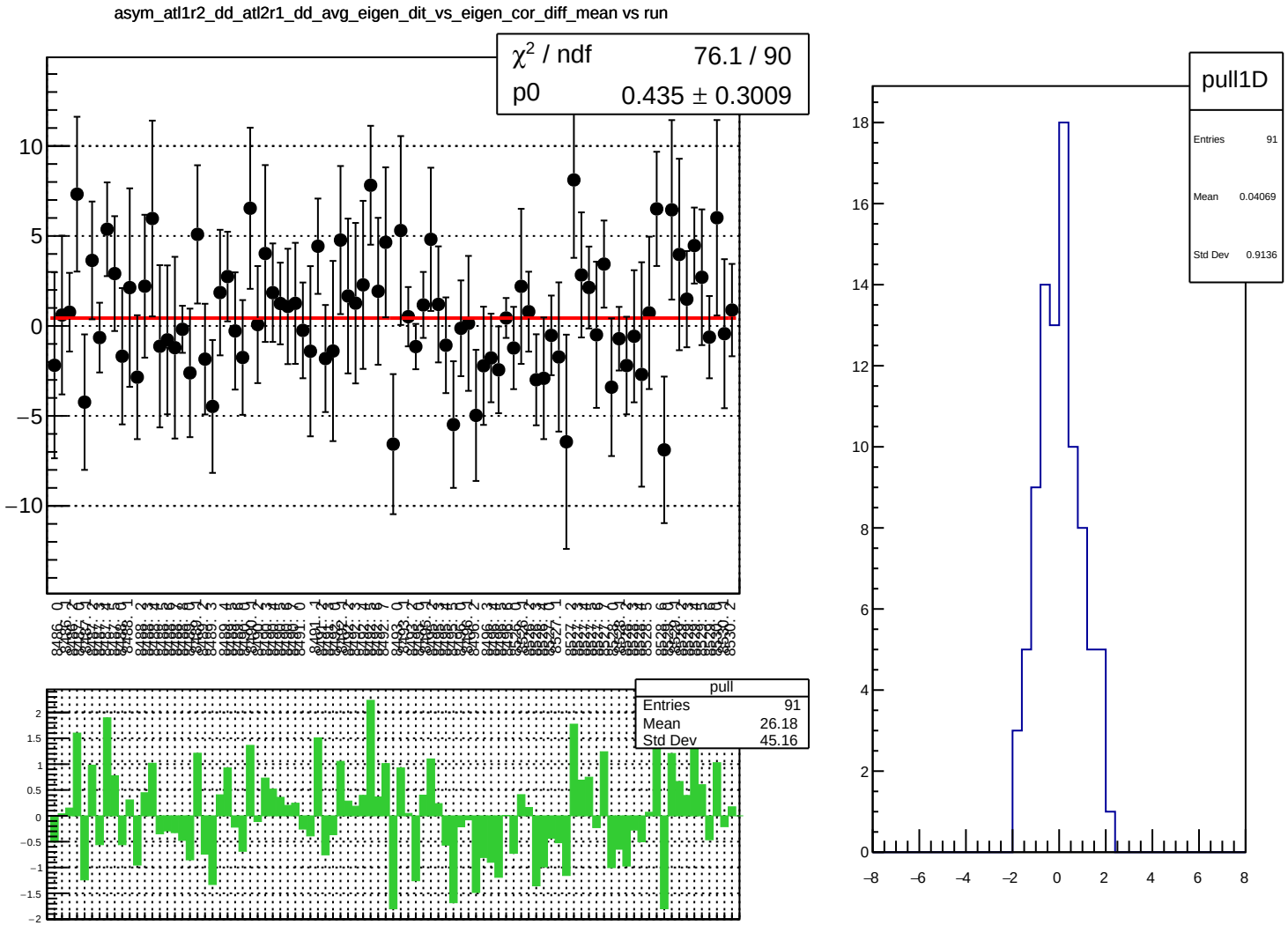

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.35 / 90
p0 1.392e−06 ± 1.395e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 91
Mean 62.79
Std Dev 26.14
2
1
0
−1
−2

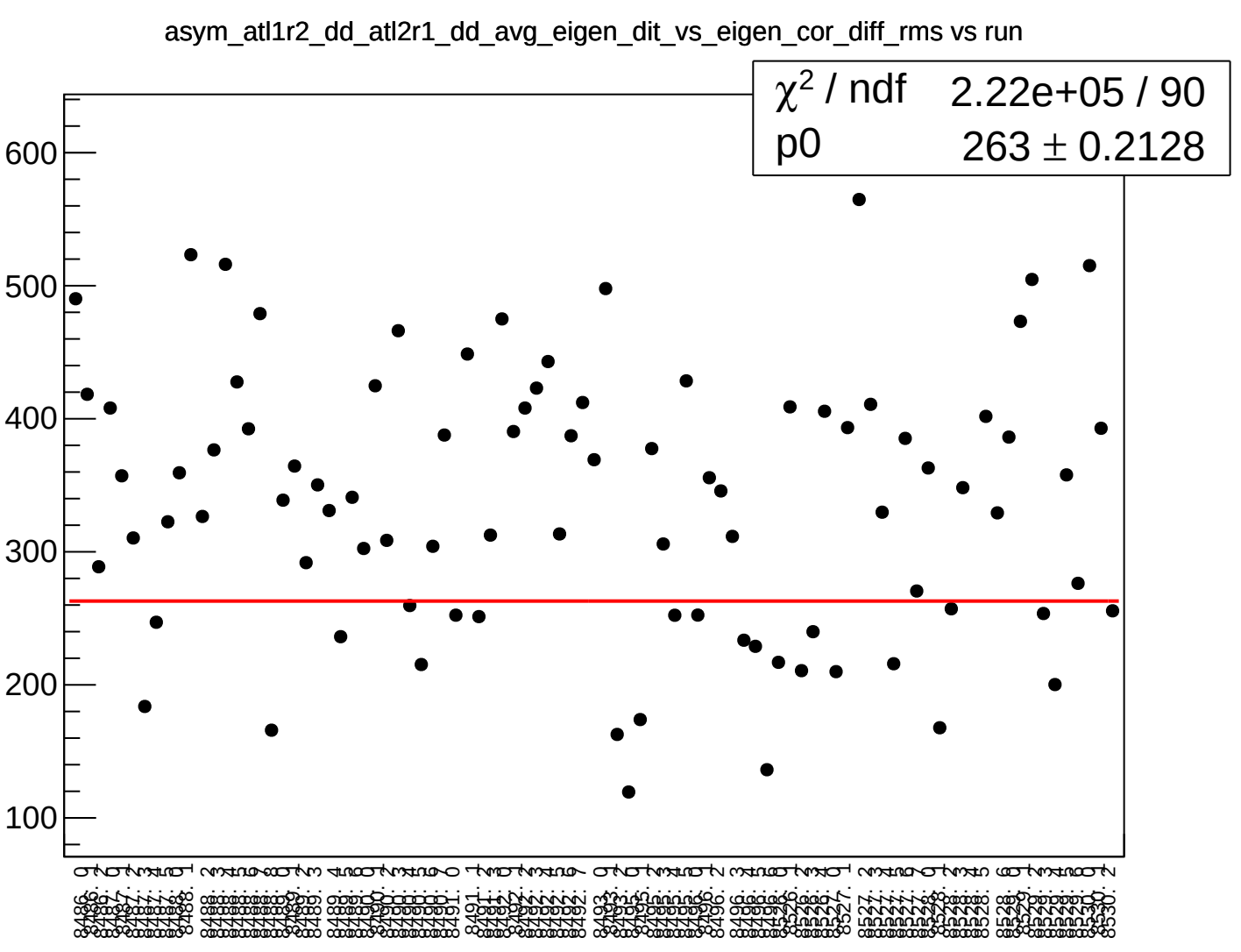

pull1D
Entries 91
Mean −0.02985
Std Dev 1.034
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

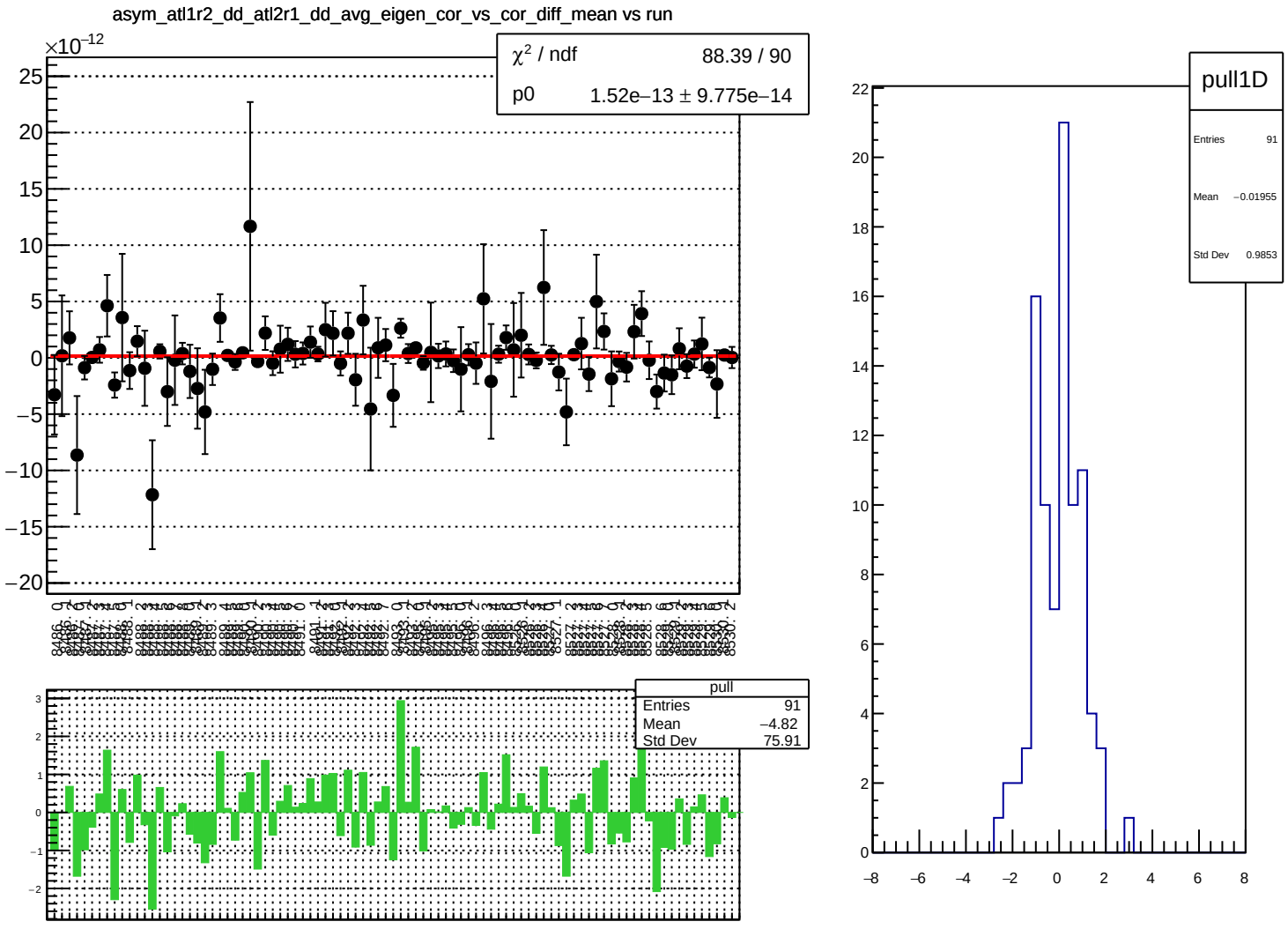

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.074e+05 / 90
p0 0.001184 ± 9.864e−07
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

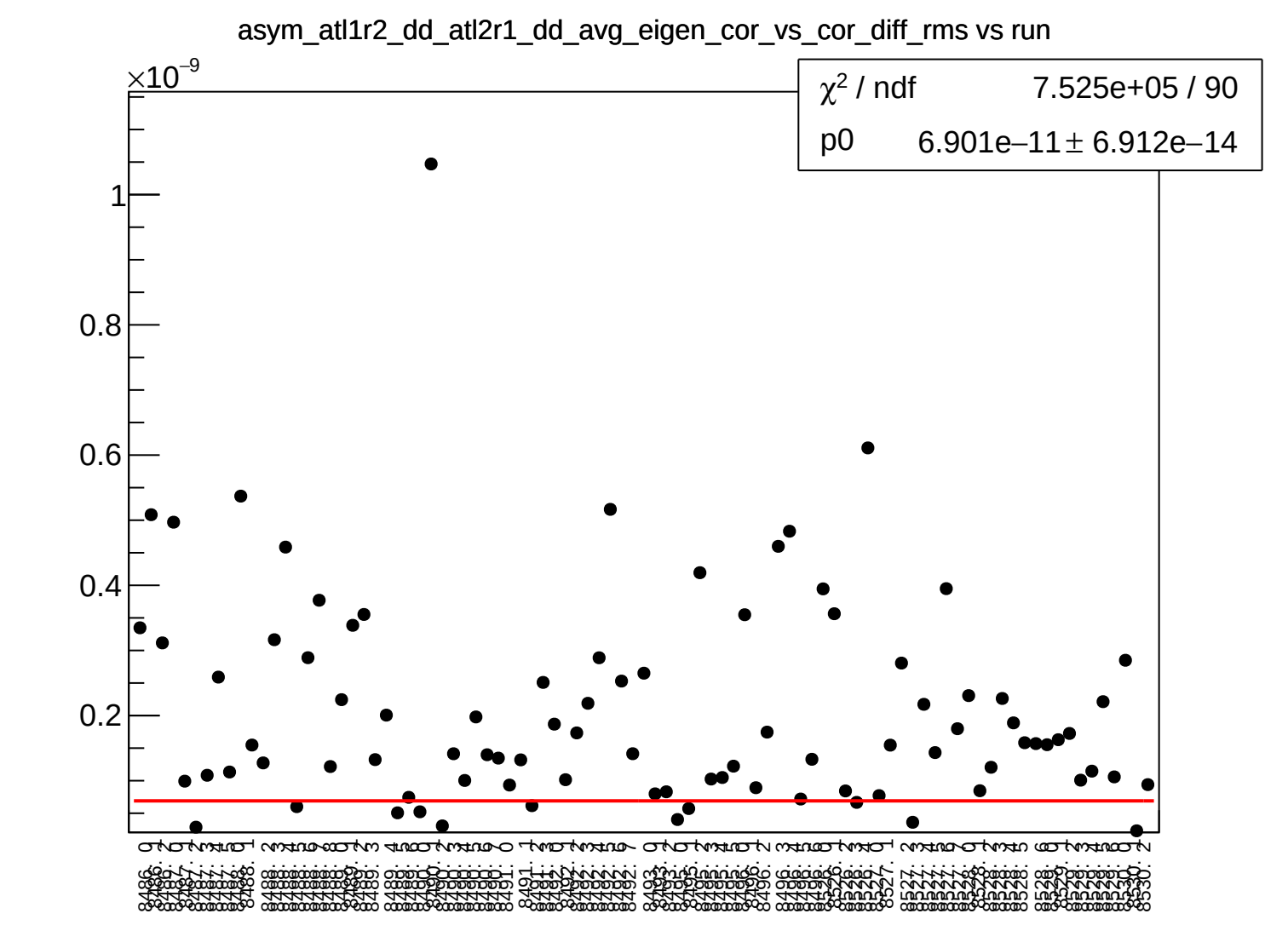

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.1 / 90
p0 0.435 ± 0.3009
pull
Entries 91
Mean 26.18
Std Dev 45.16
pull1D
Entries 91
Mean 0.04069
Std Dev 0.9136

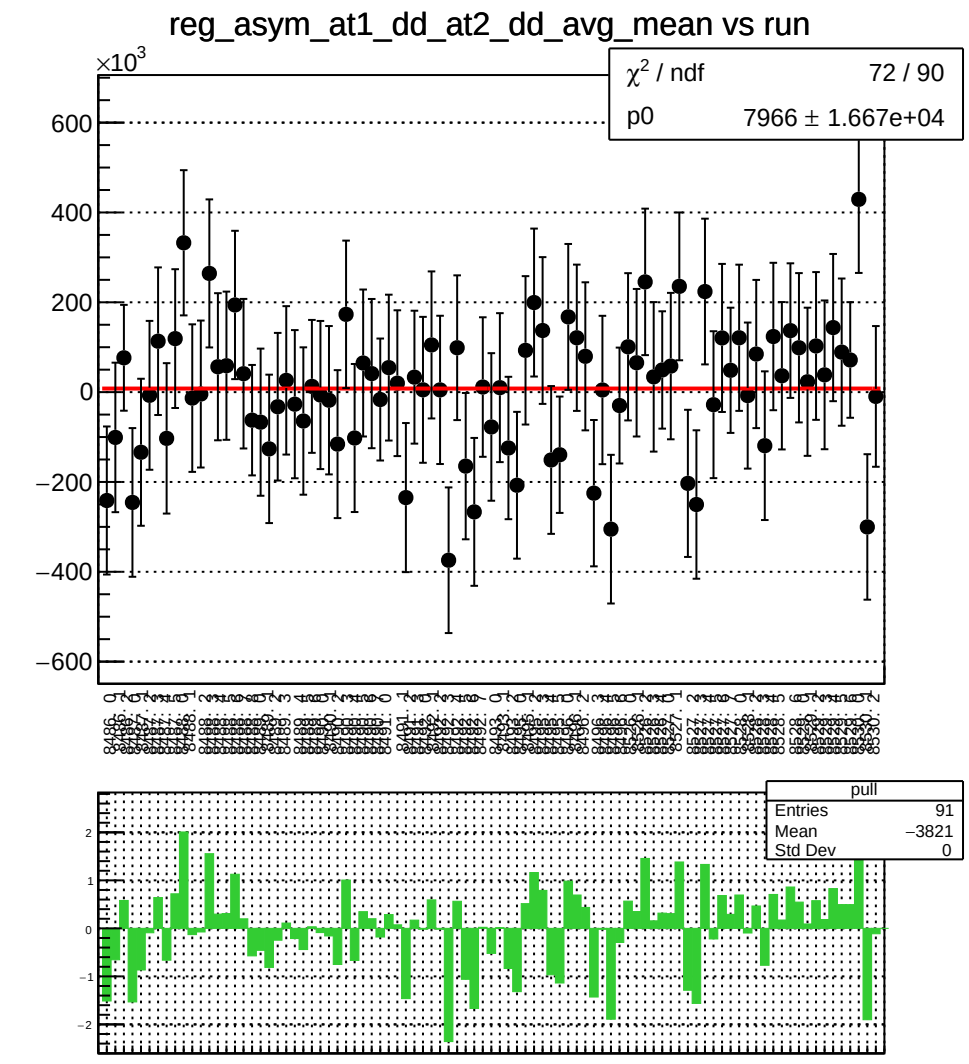

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.22e+05 / 90
p0 263 ± 0.2128
600
500
400
300
200
100

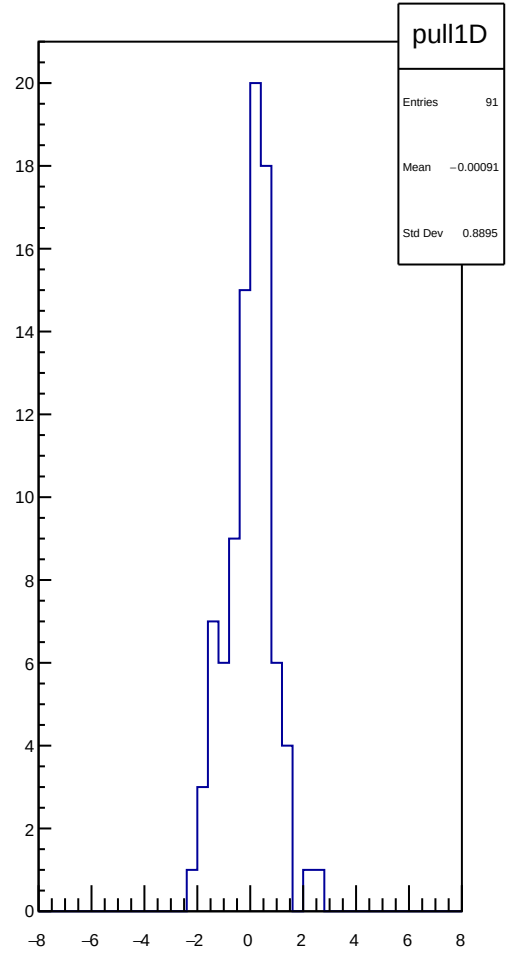

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.1 / 90
p0 0.435 ± 0.3009
pull
Entries 91
Mean 26.18
Std Dev 45.16
pull1D
Entries 91
Mean 0.04069
Std Dev 0.9136

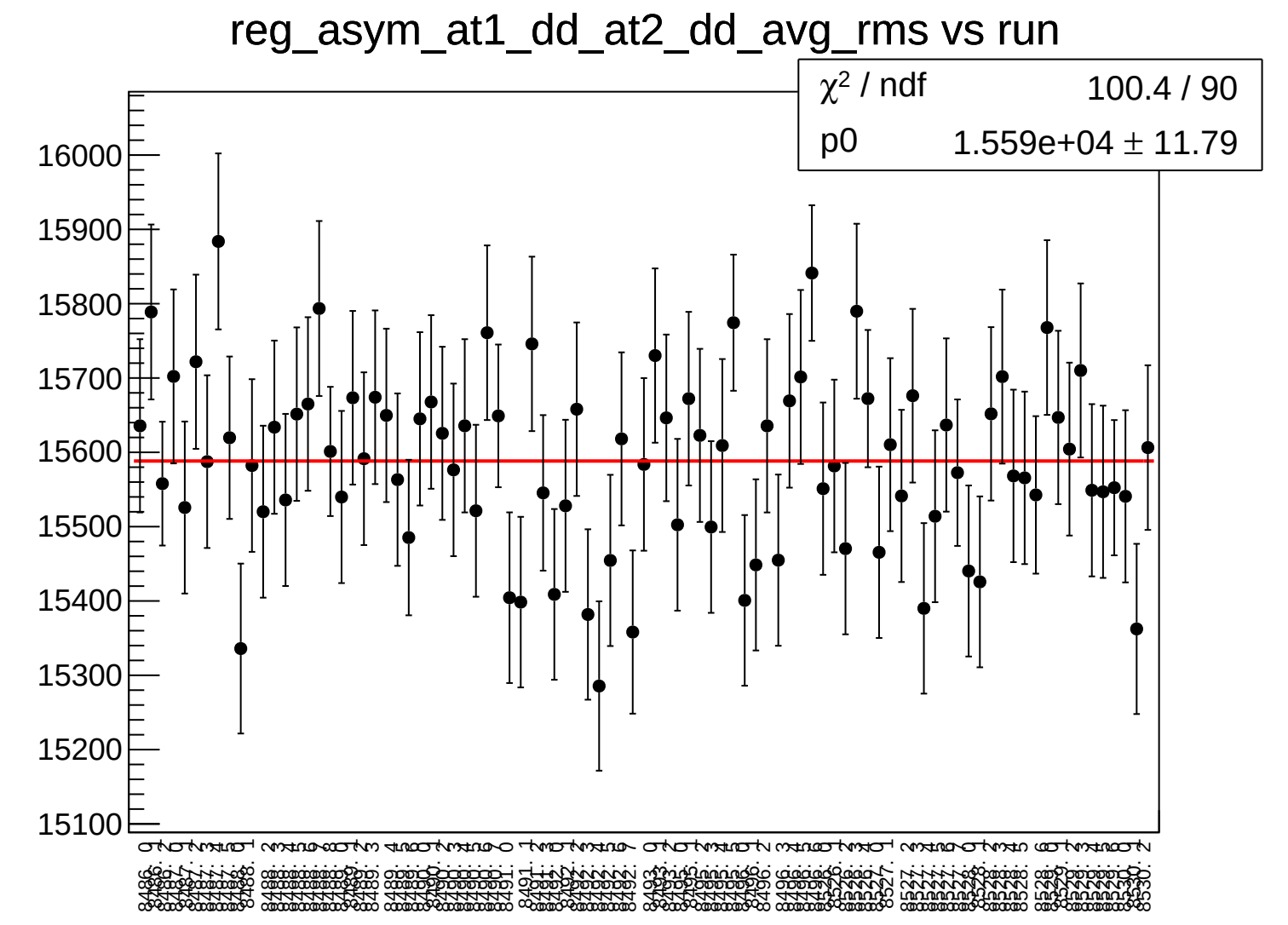

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.22e+05 / 90
p0 263 ± 0.2128
600
500
400
300
200
100

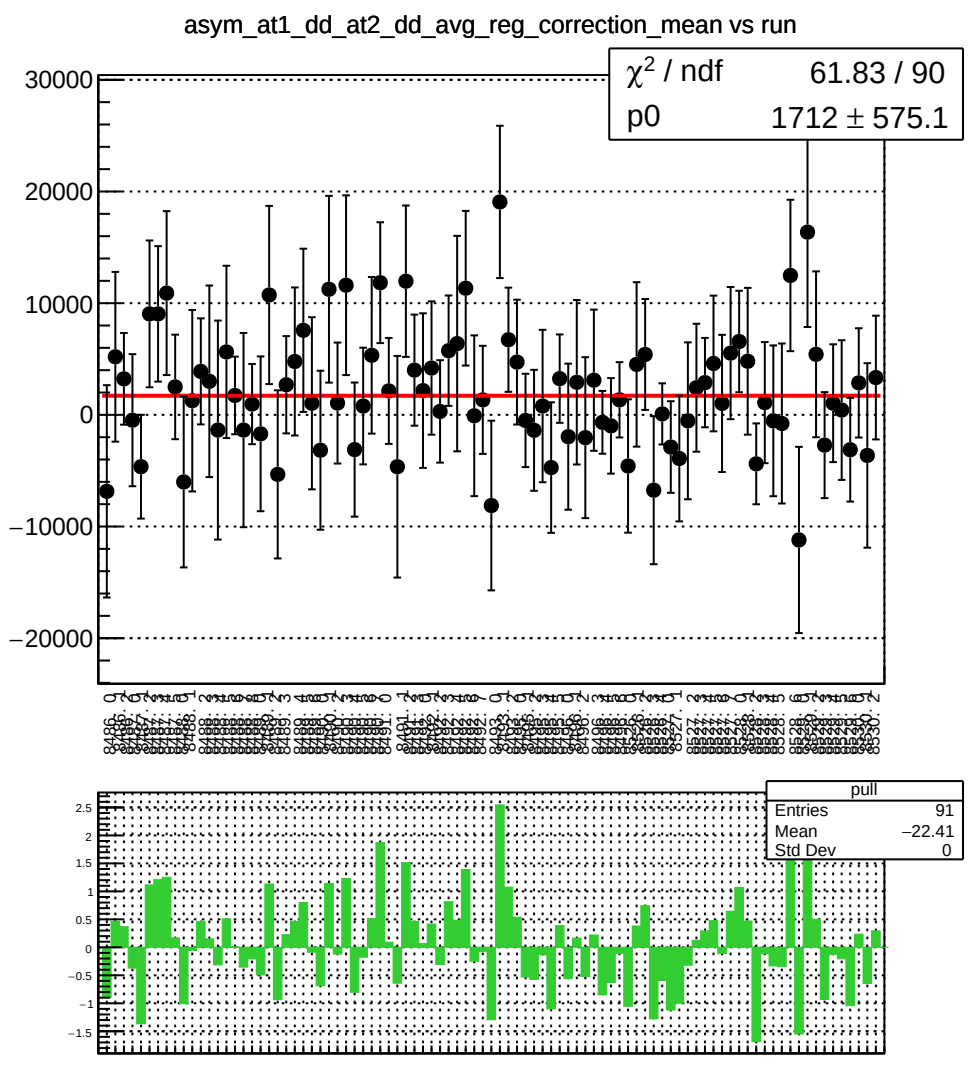

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.39 / 90
p0 1.52e−13 ± 9.775e−14
pull
Entries 91
Mean −4.82
Std Dev 75.91
pull1D
Entries 91
Mean −0.01955
Std Dev 0.9853

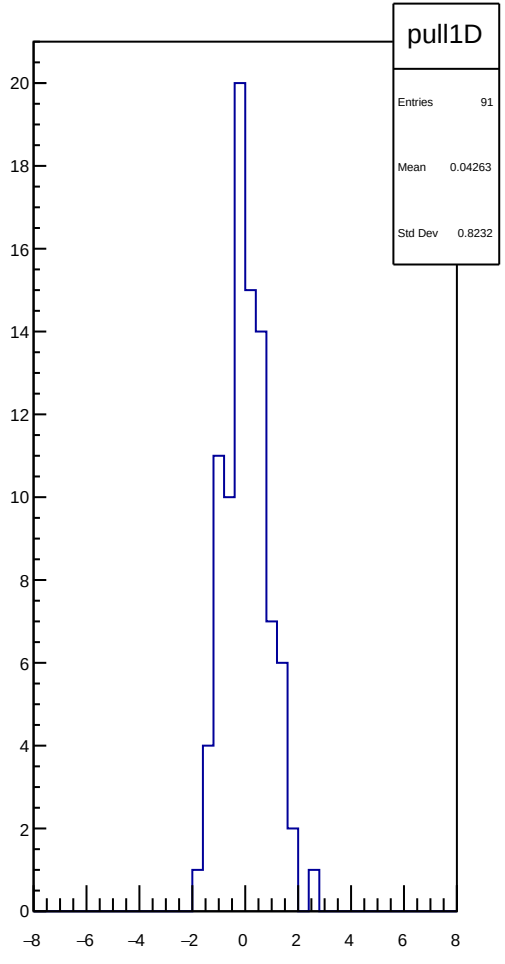

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.525e+05 / 90
p0 6.901e−11 ± 6.912e−14
1
0.8
0.6
0.4
0.2

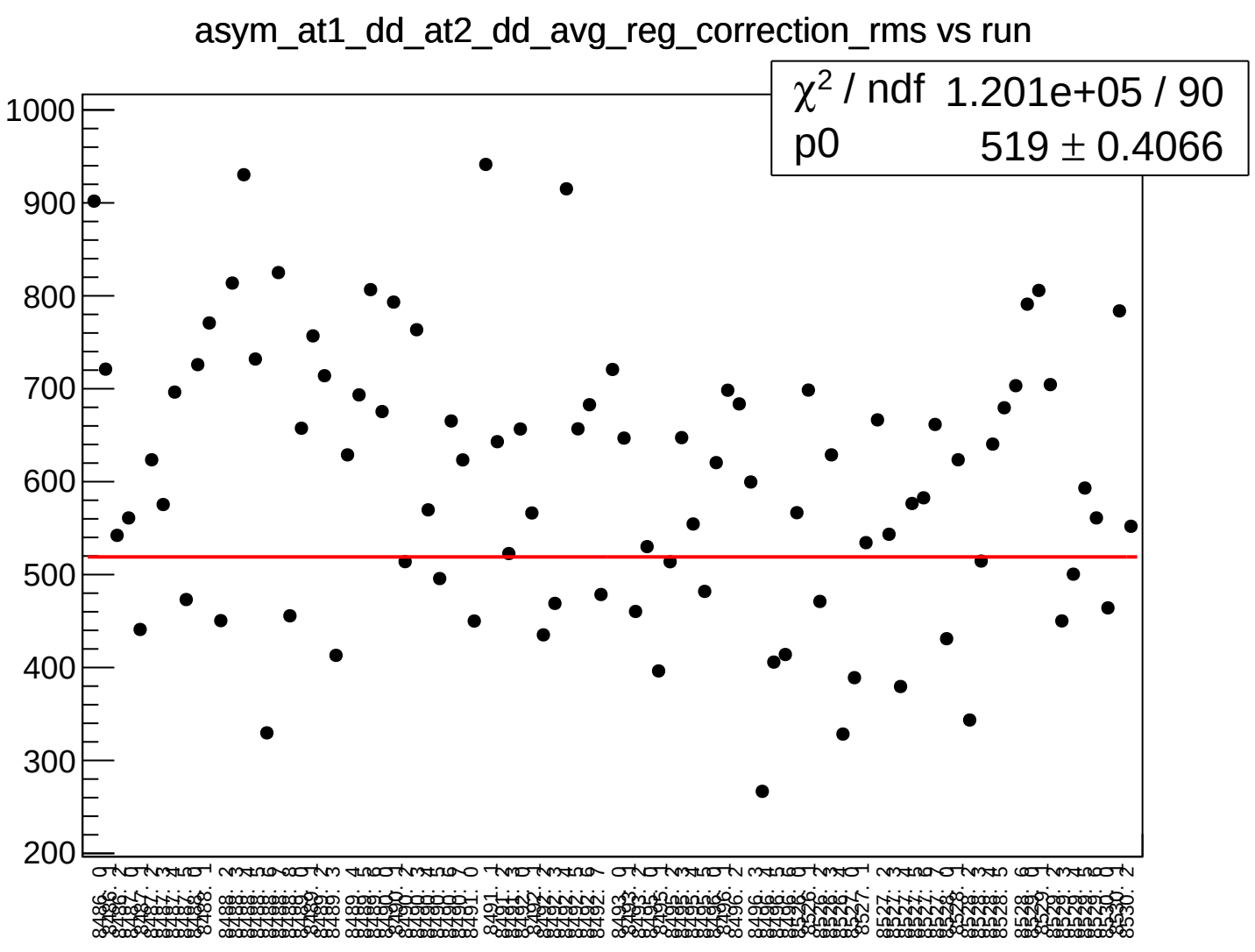

reg_asym_at1_dd_at2_dd_avg_mean vs run
×10^3
χ² / ndf 72 / 90
p0 7966 ± 1.667e+04
pull
Entries 91
Mean −3821
Std Dev 0

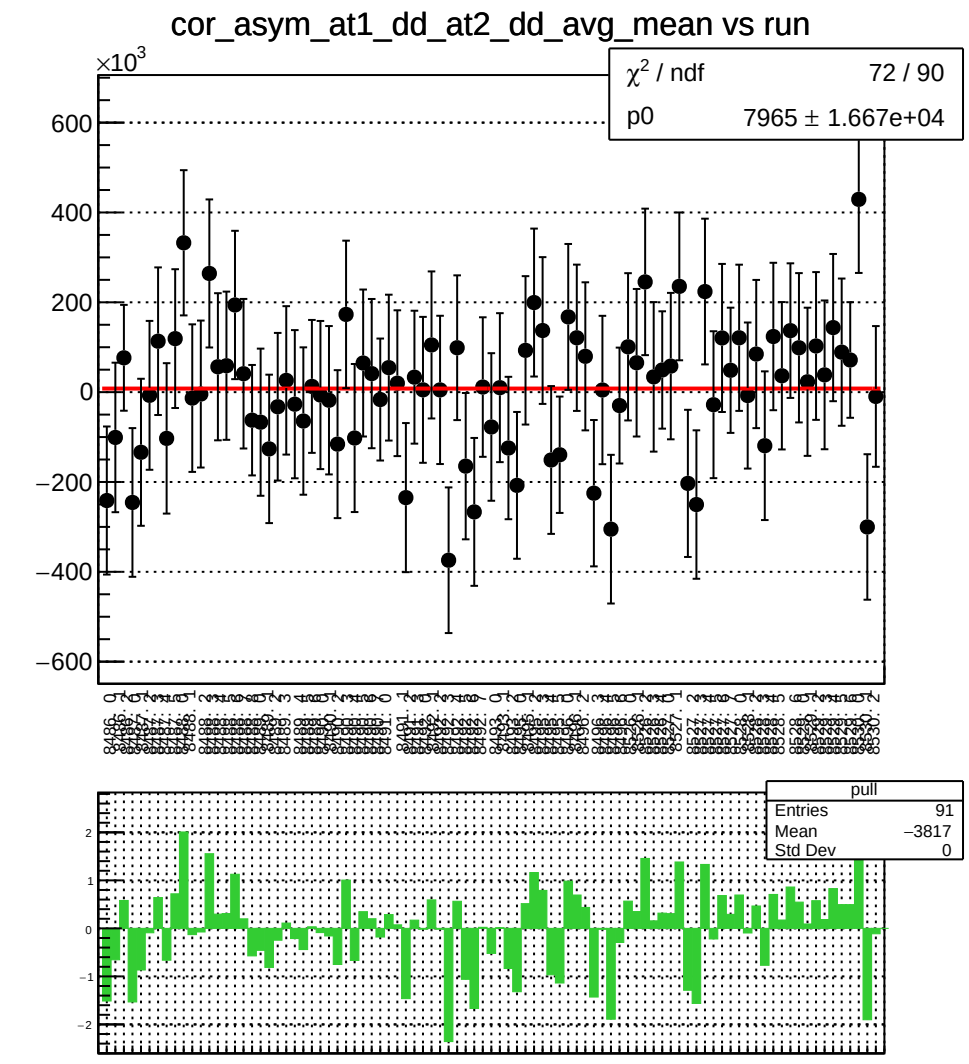

pull1D
Entries 91
Mean −0.00091
Std Dev 0.8895

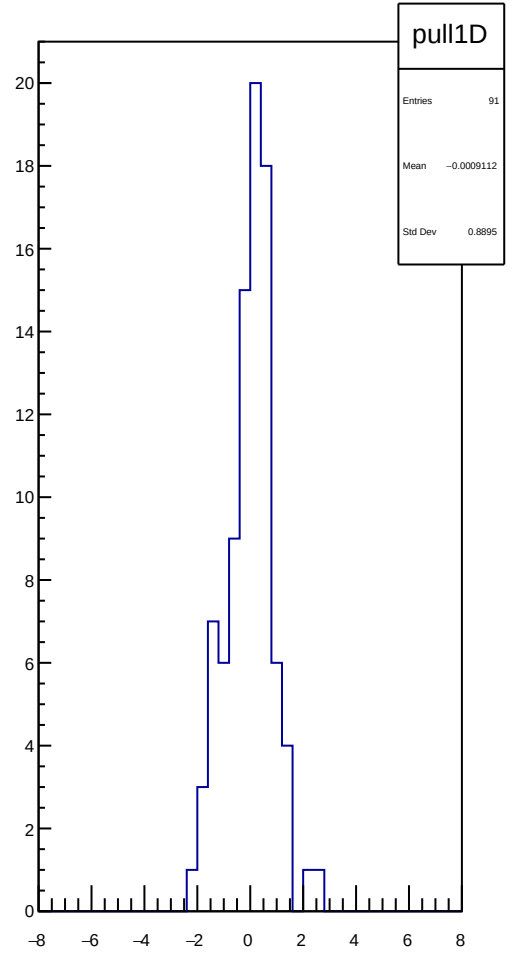

reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 100.4 / 90
p0 1.559e+04 ± 11.79
16000
15900
15800
15700
15600
15500
15400
15300
15200
15100

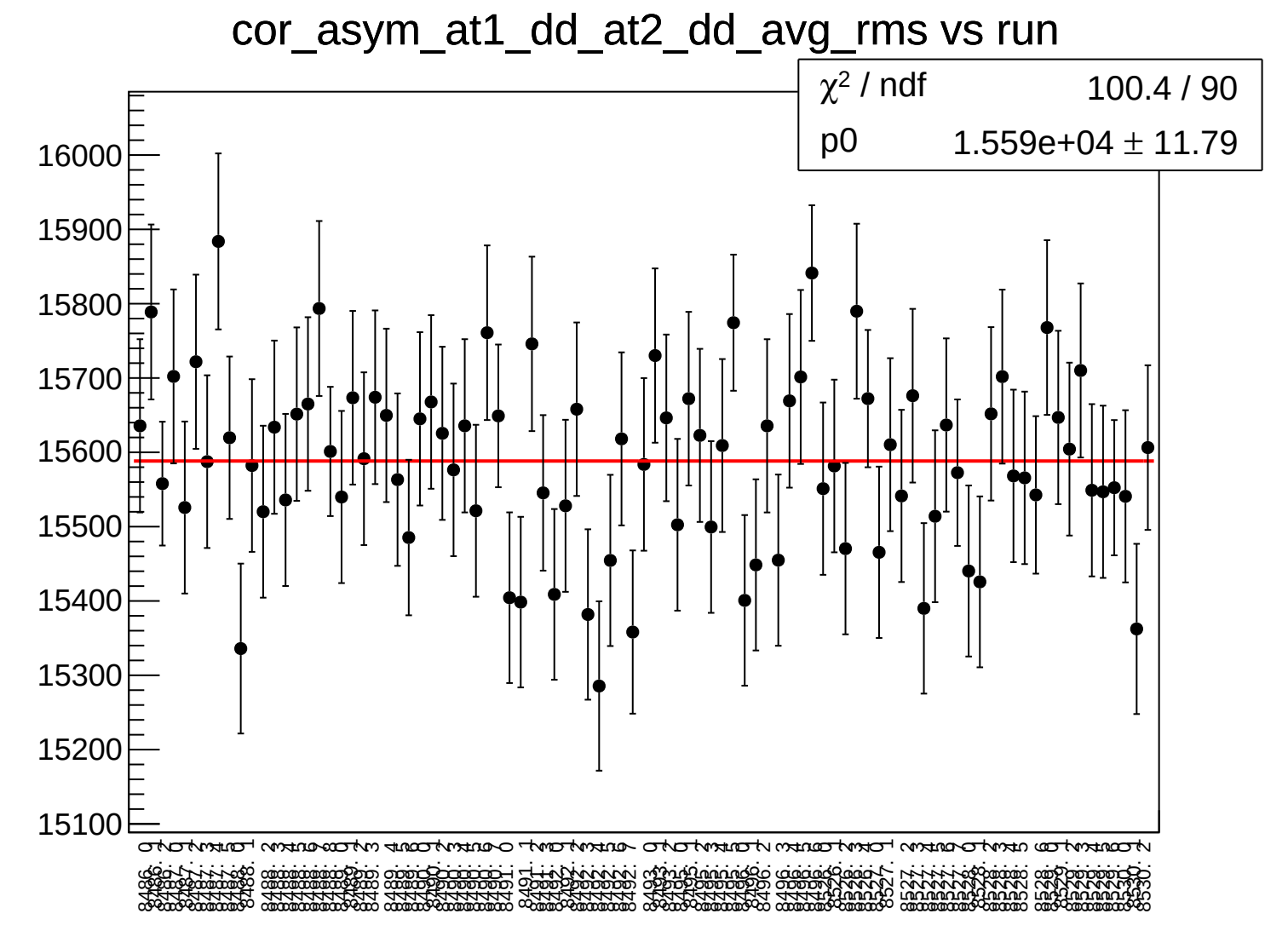

asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 61.83 / 90
p0 1712 ± 575.1
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean −22.41
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

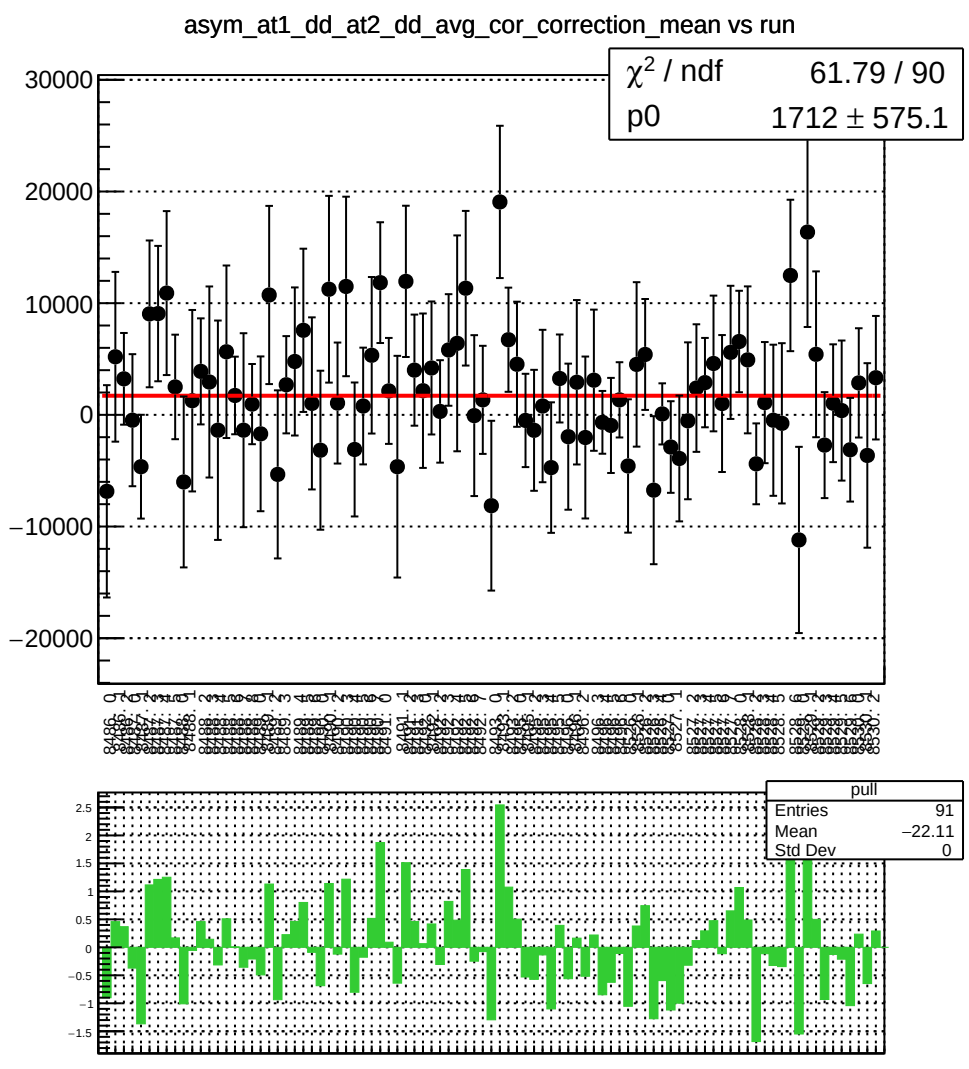

pull1D
Entries 91
Mean 0.04263
Std Dev 0.8232
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

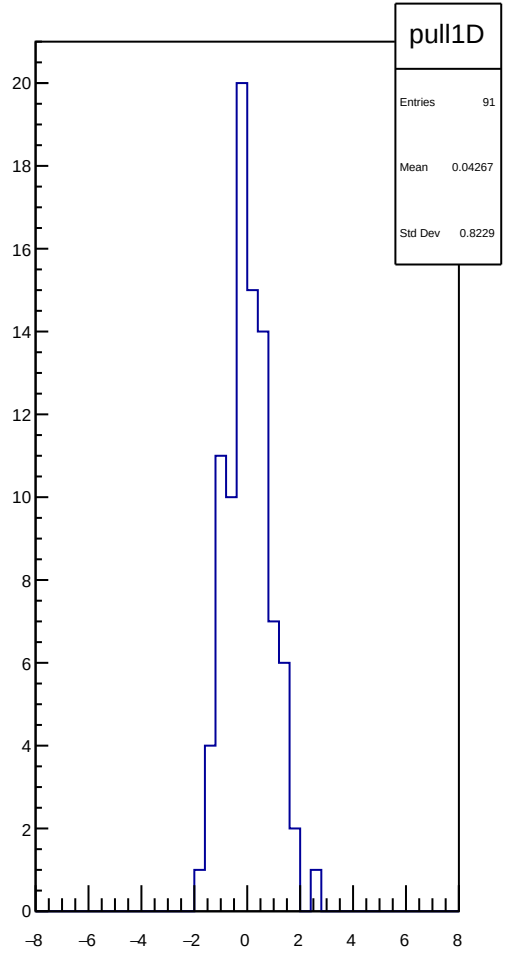

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ^2 / ndf 1.201e+05 / 90
p0 519 ± 0.4066
1000
900
800
700
600
500
400
300
200

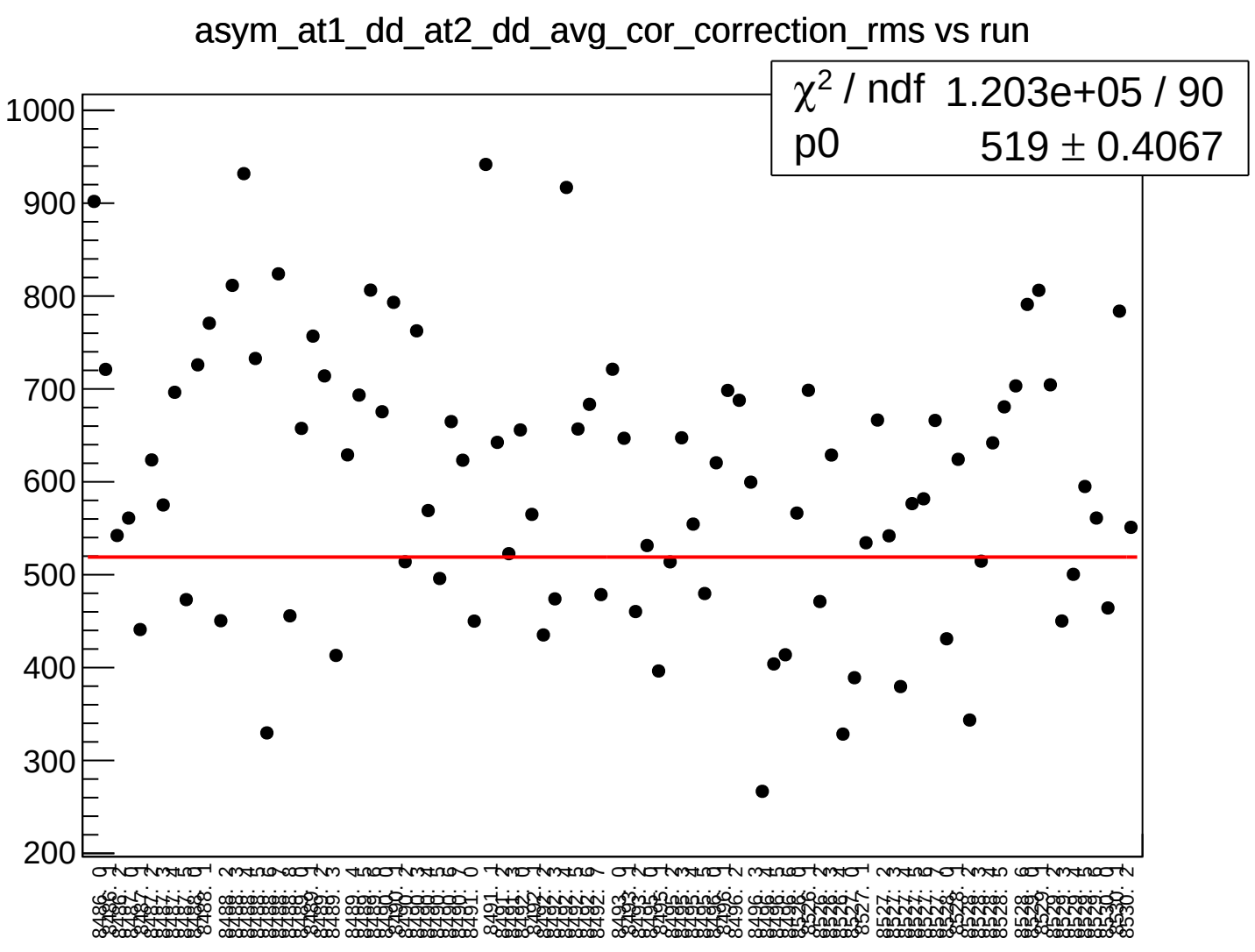

cor_asym_at1_dd_at2_dd_avg_mean vs run
×10^3
χ² / ndf 72 / 90
p0 7965 ± 1.667e+04
pull
Entries 91
Mean −3817
Std Dev 0

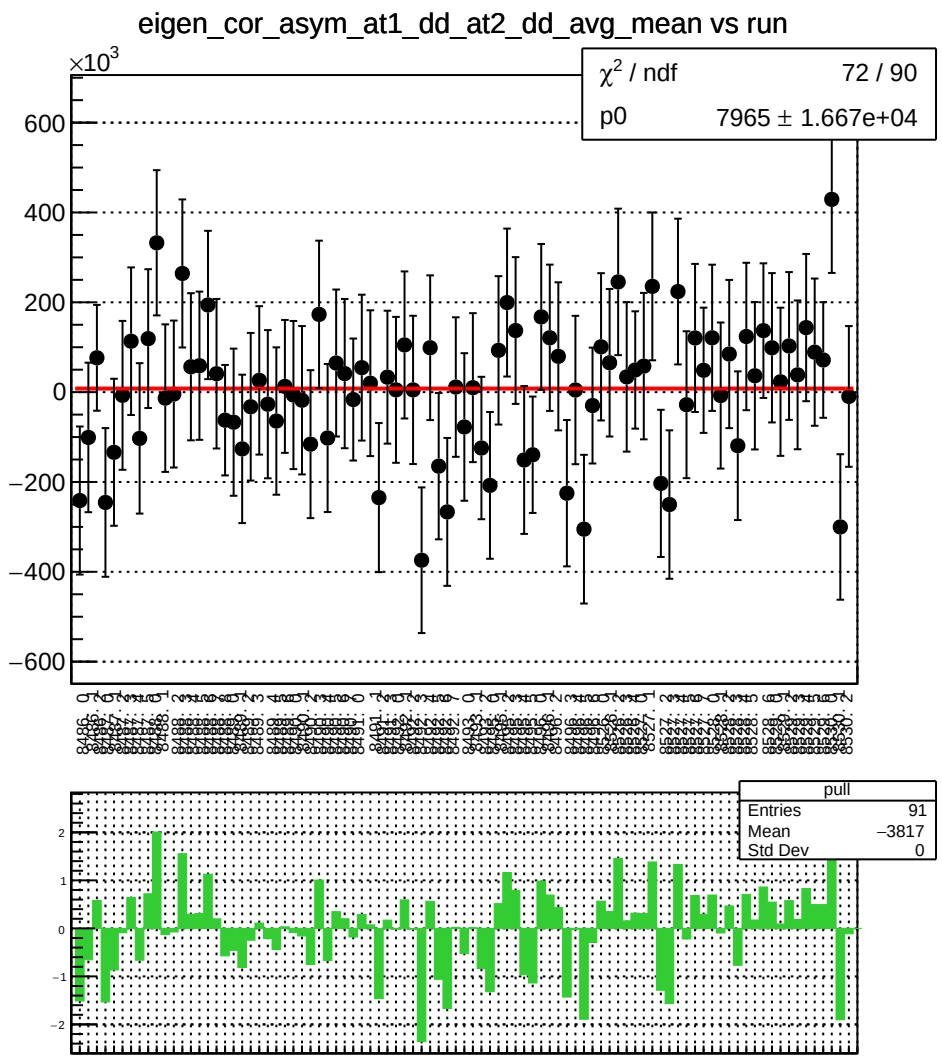

pull1D
Entries 91
Mean −0.0009112
Std Dev 0.8895

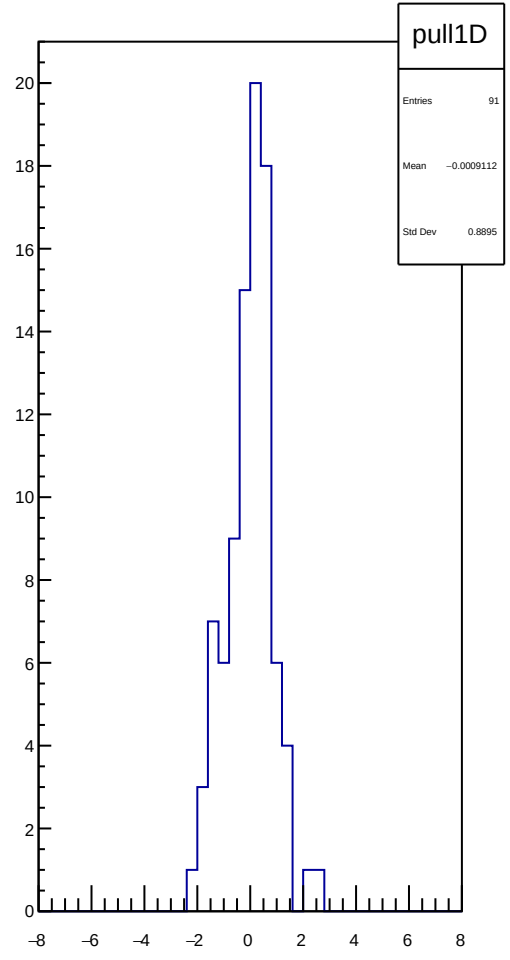

cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 100.4 / 90
p0 1.559e+04 ± 11.79
16000
15900
15800
15700
15600
15500
15400
15300
15200
15100

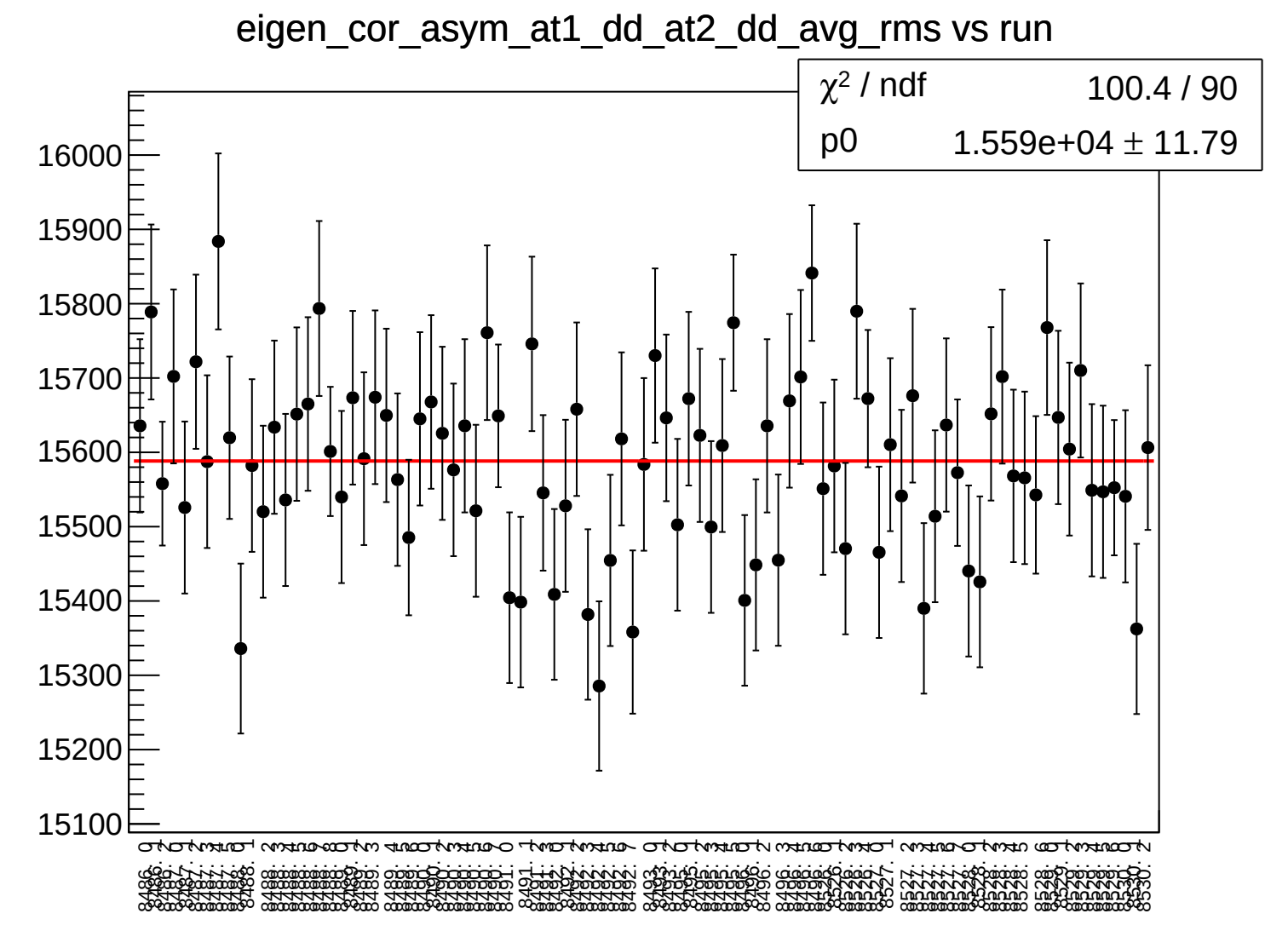

asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 61.79 / 90
p0 1712 ± 575.1
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean −22.11
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

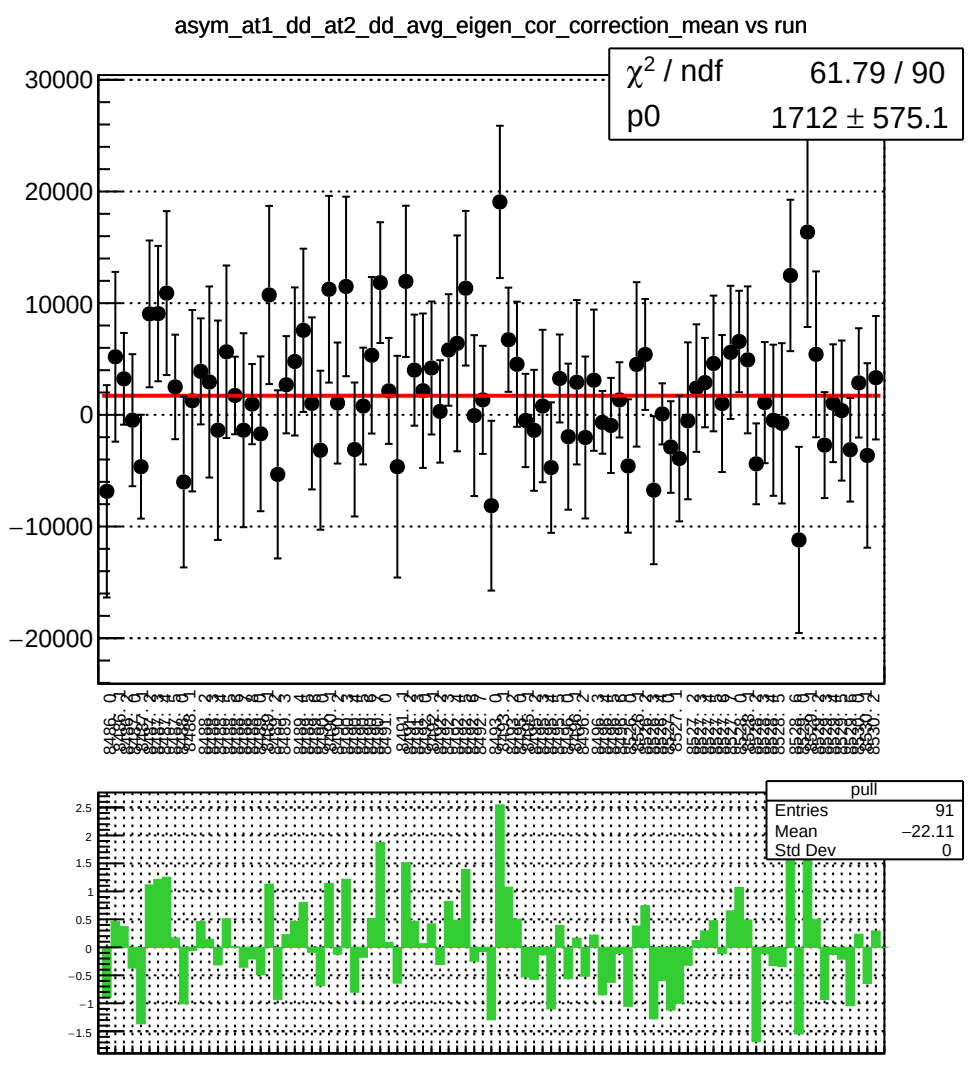

pull1D
Entries 91
Mean 0.04267
Std Dev 0.8229
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

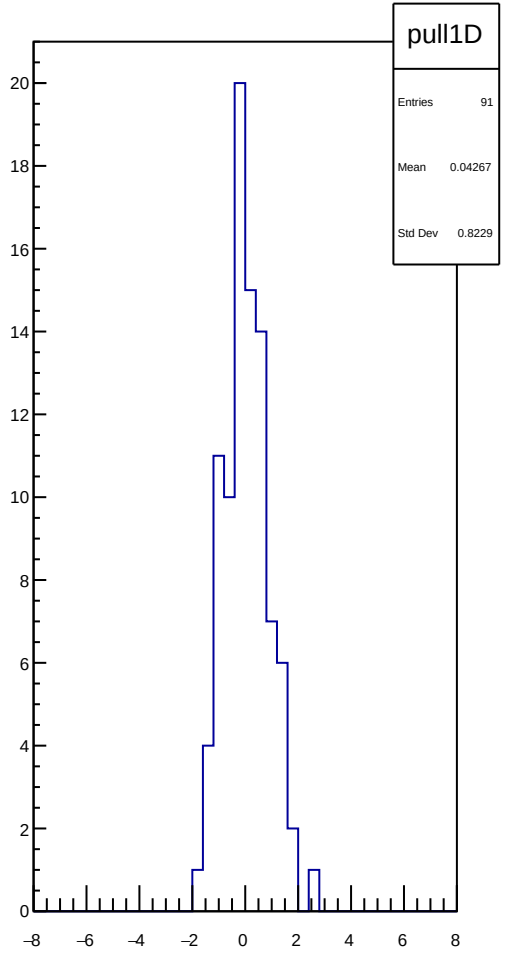

asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 1.203e+05 / 90
p0 519 ± 0.4067
1000
900
800
700
600
500
400
300
200

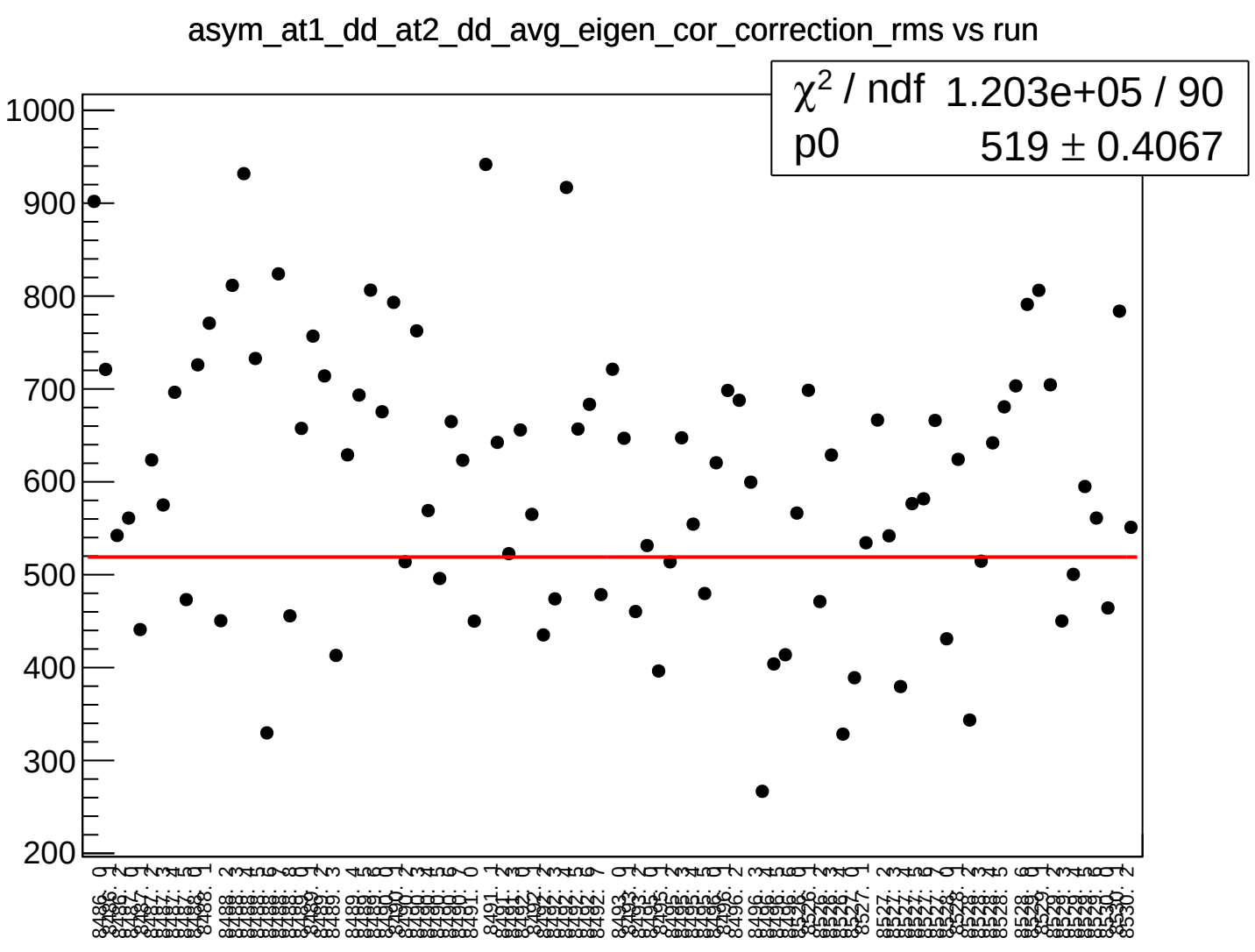

eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
×10^3
χ² / ndf 72 / 90
p0 7965 ± 1.667e+04
pull
Entries 91
Mean −3817
Std Dev 0

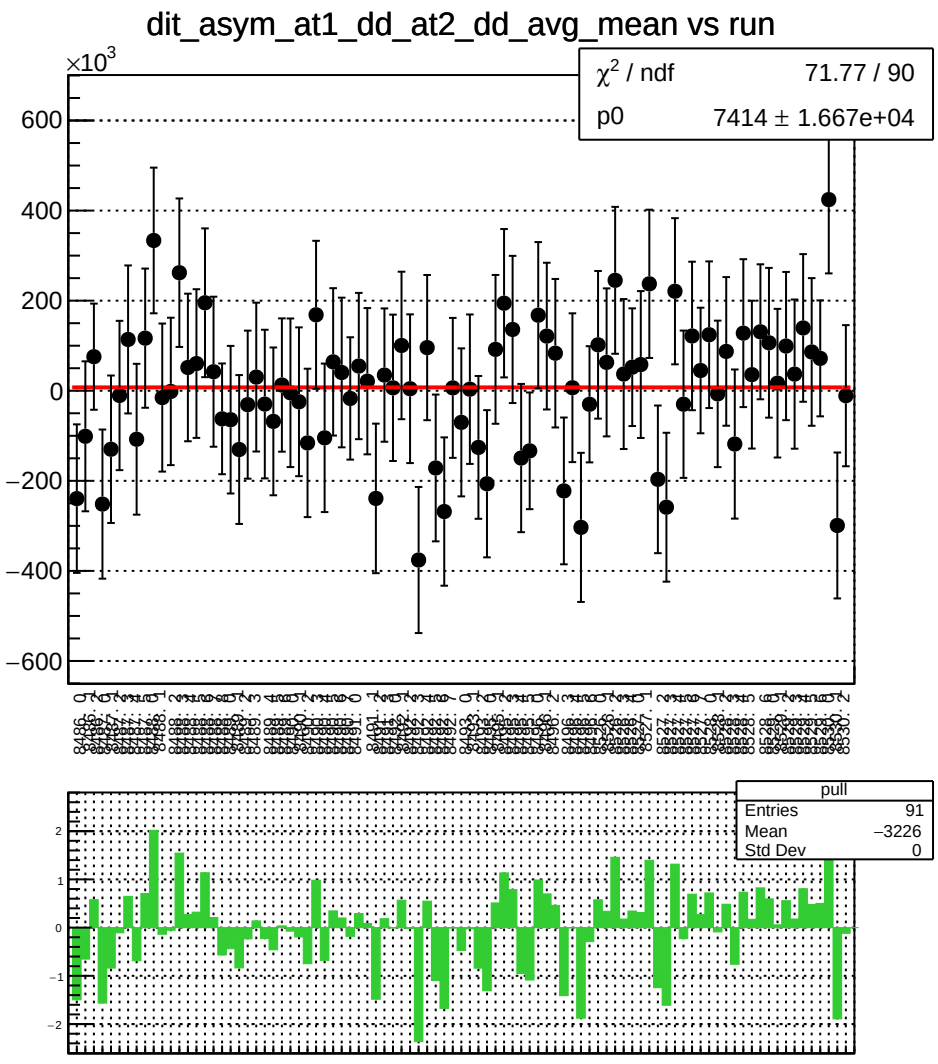

pull1D
Entries 91
Mean −0.0009112
Std Dev 0.8895

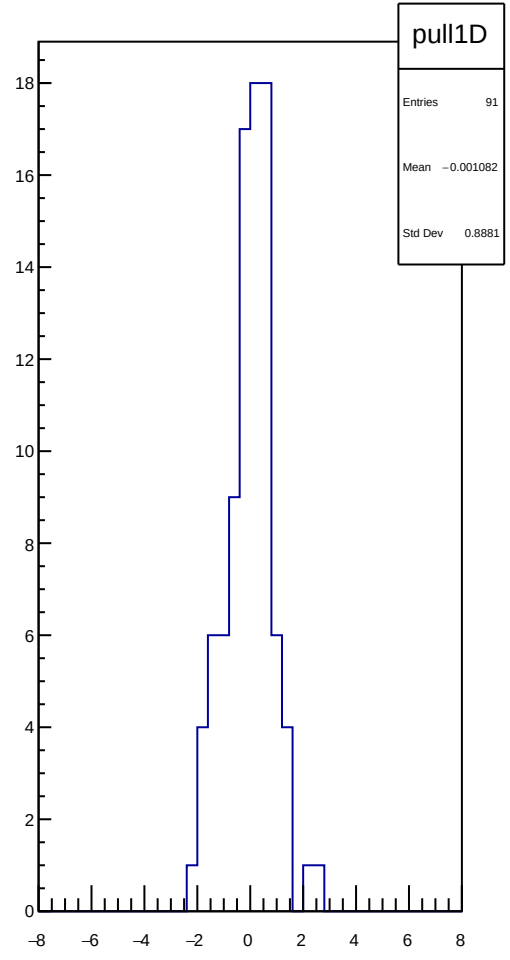

eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 100.4 / 90
p0 1.559e+04 ± 11.79
16000
15900
15800
15700
15600
15500
15400
15300
15200
15100

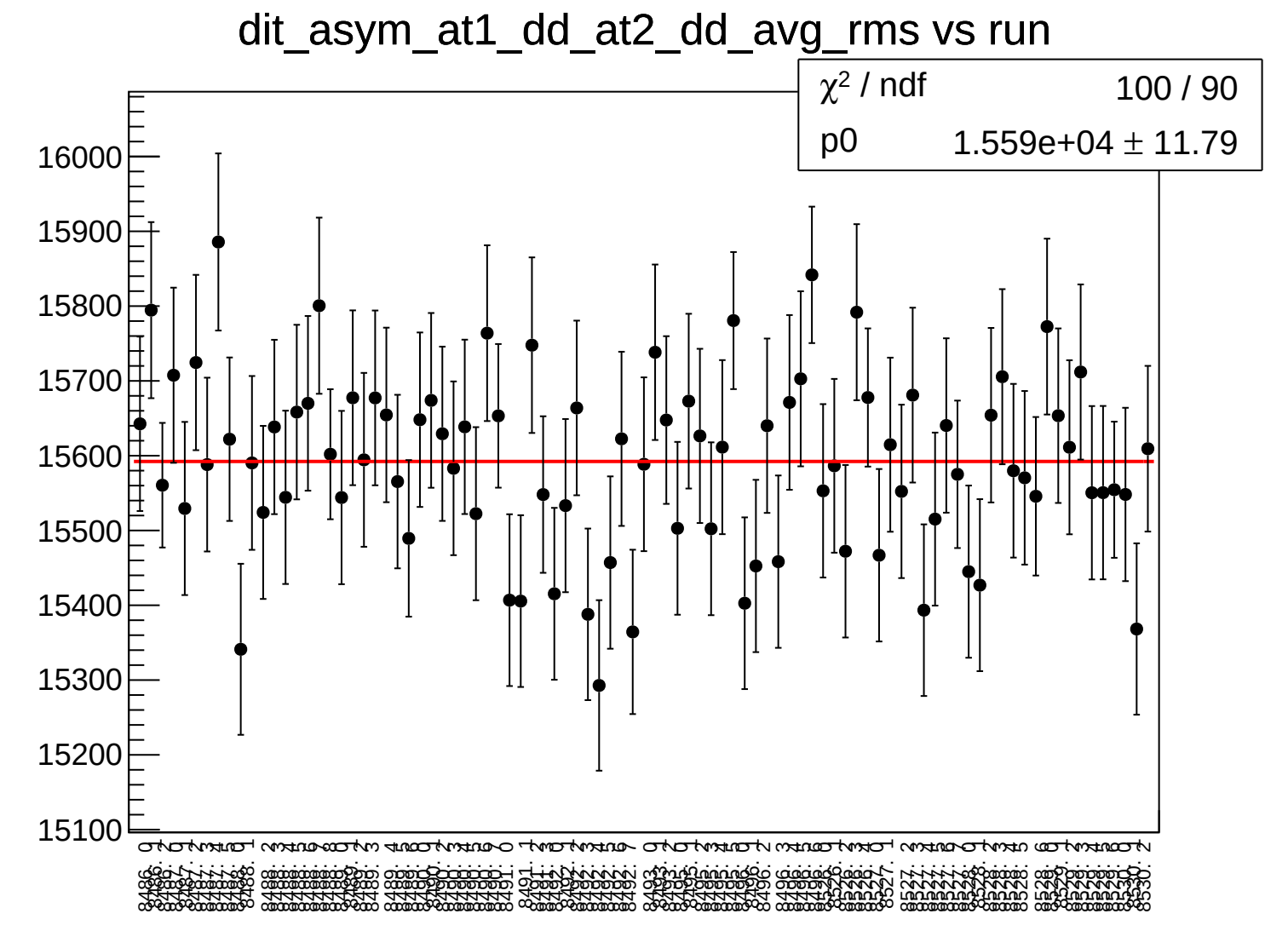

asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 61.79 / 90
p0 1712 ± 575.1
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean −22.11
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

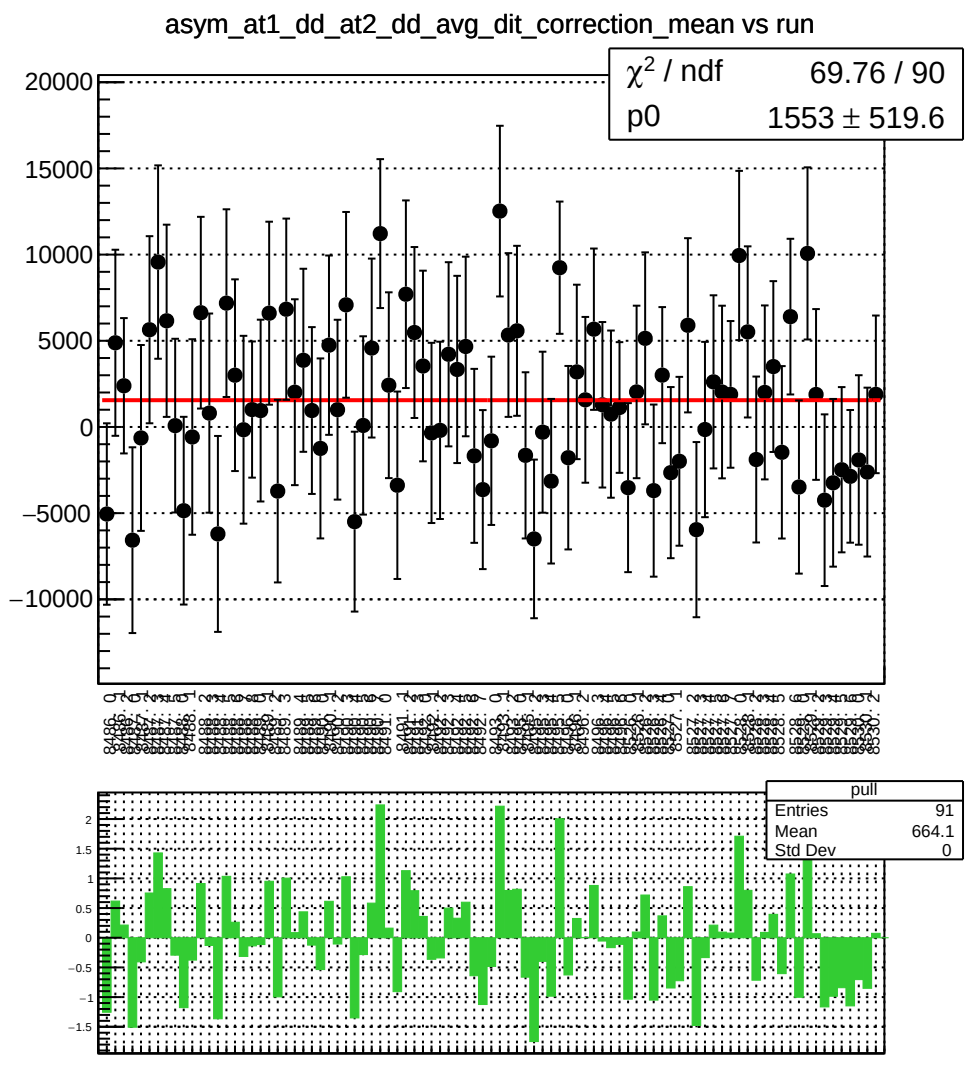

pull1D
Entries 91
Mean 0.04267
Std Dev 0.8229
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

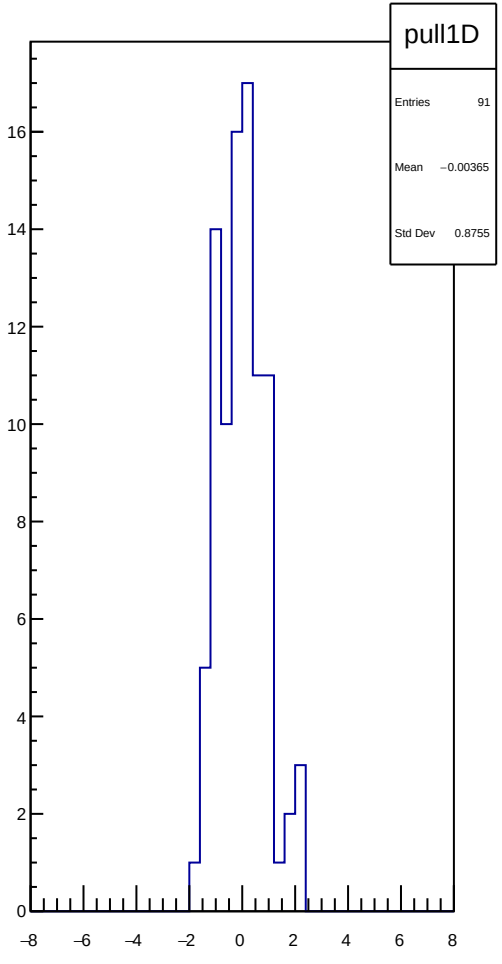

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.203e+05 / 90
p0 519 ± 0.4067
1000
900
800
700
600
500
400
300
200

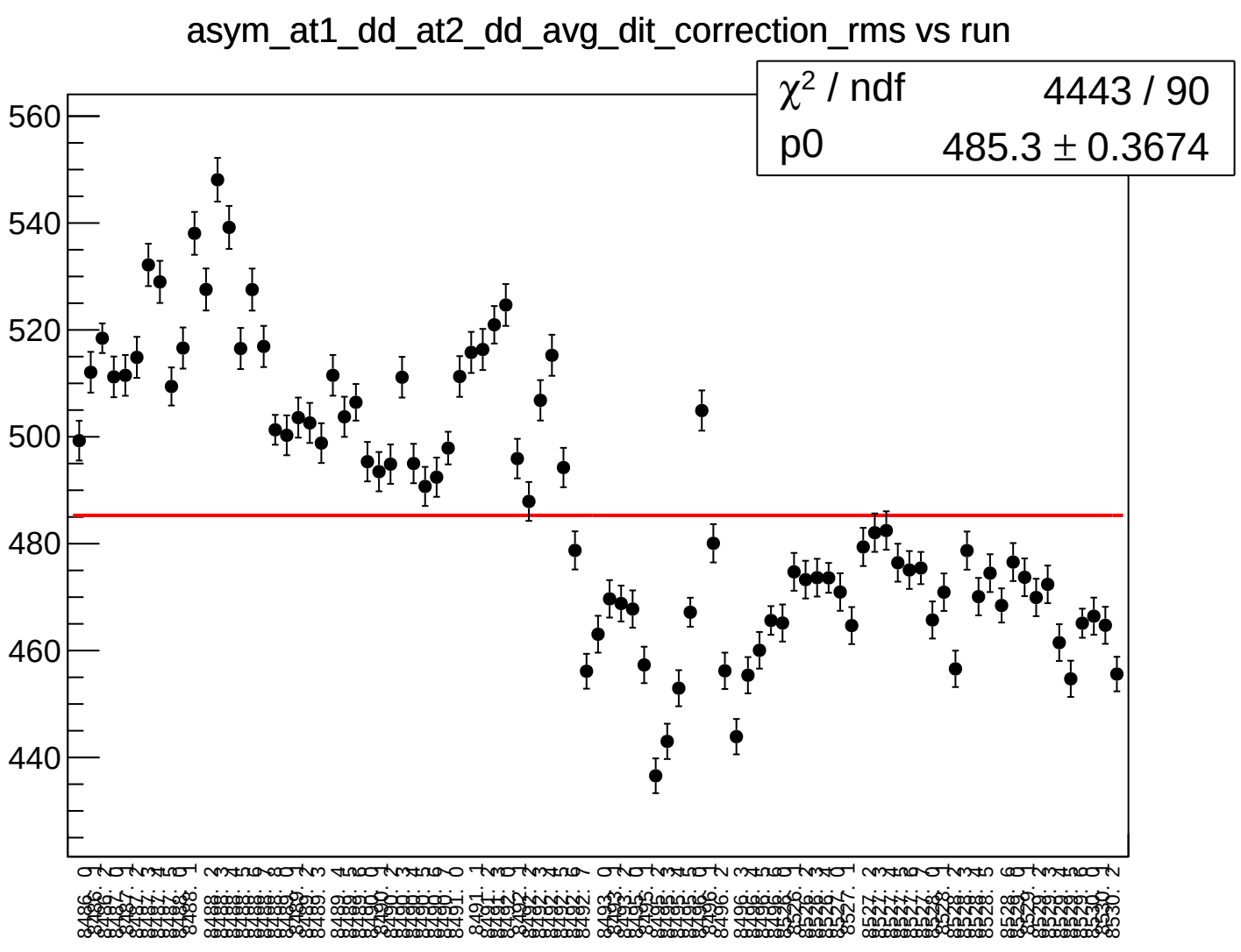

dit_asym_at1_dd_at2_dd_avg_mean vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 71.77 / 90
p0 7414 ± 1.667e+04
pull
Entries 91
Mean −3226
Std Dev 0
2
1
0
−1
−2

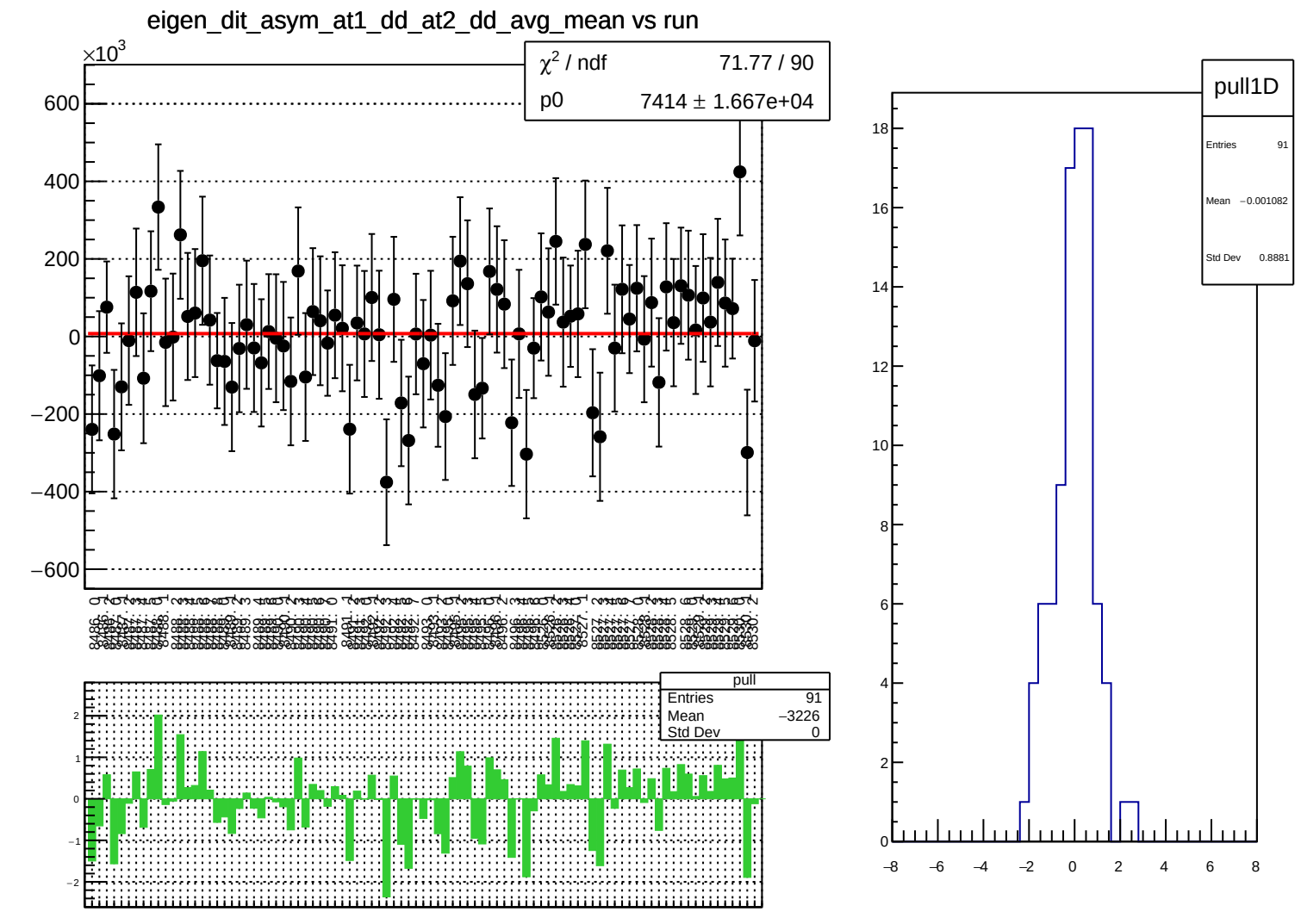

pull1D
Entries 91
Mean −0.001082
Std Dev 0.8881
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

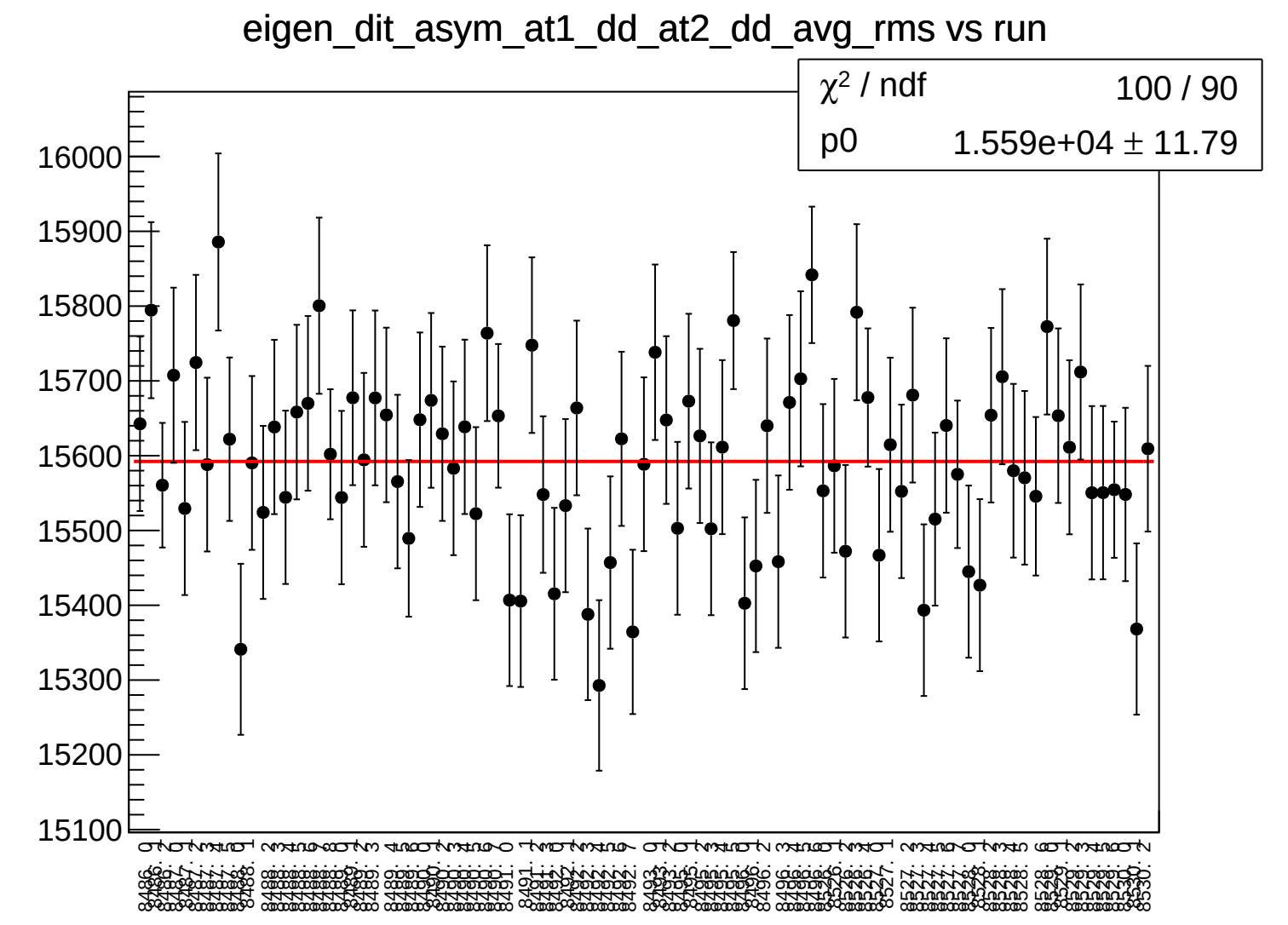

dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 100 / 90
p0 1.559e+04 ± 11.79
16000
15900
15800
15700
15600
15500
15400
15300
15200
15100

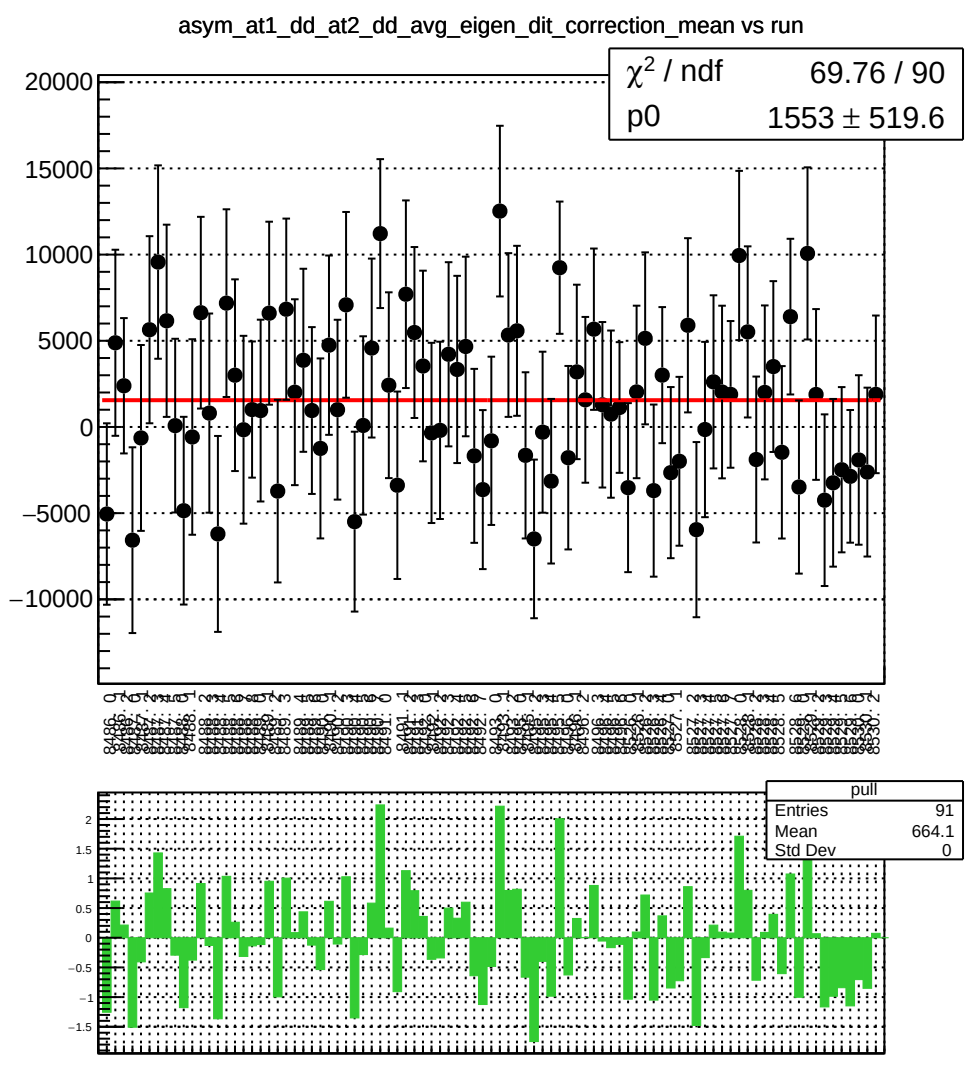

asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 69.76 / 90
p0 1553 ± 519.6
pull
Entries 91
Mean 664.1
Std Dev 0

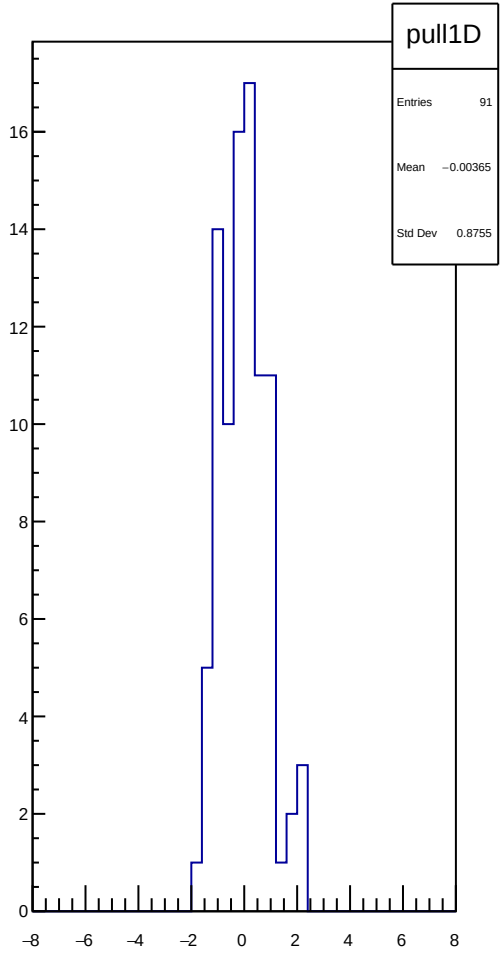

pull1D
Entries 91
Mean −0.00365
Std Dev 0.8755

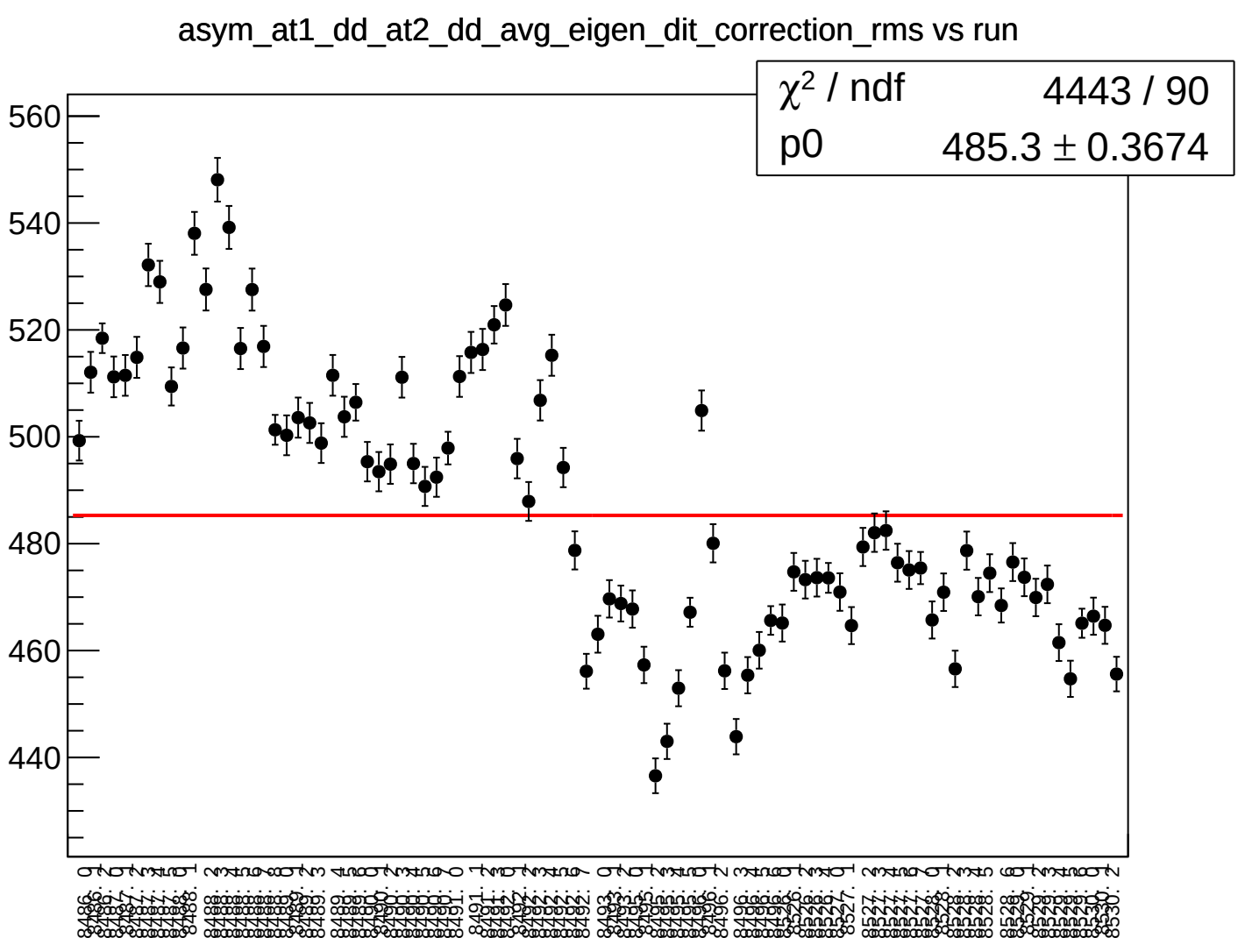

asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 4443 / 90
p0 485.3 ± 0.3674
560
540
520
500
480
460
440

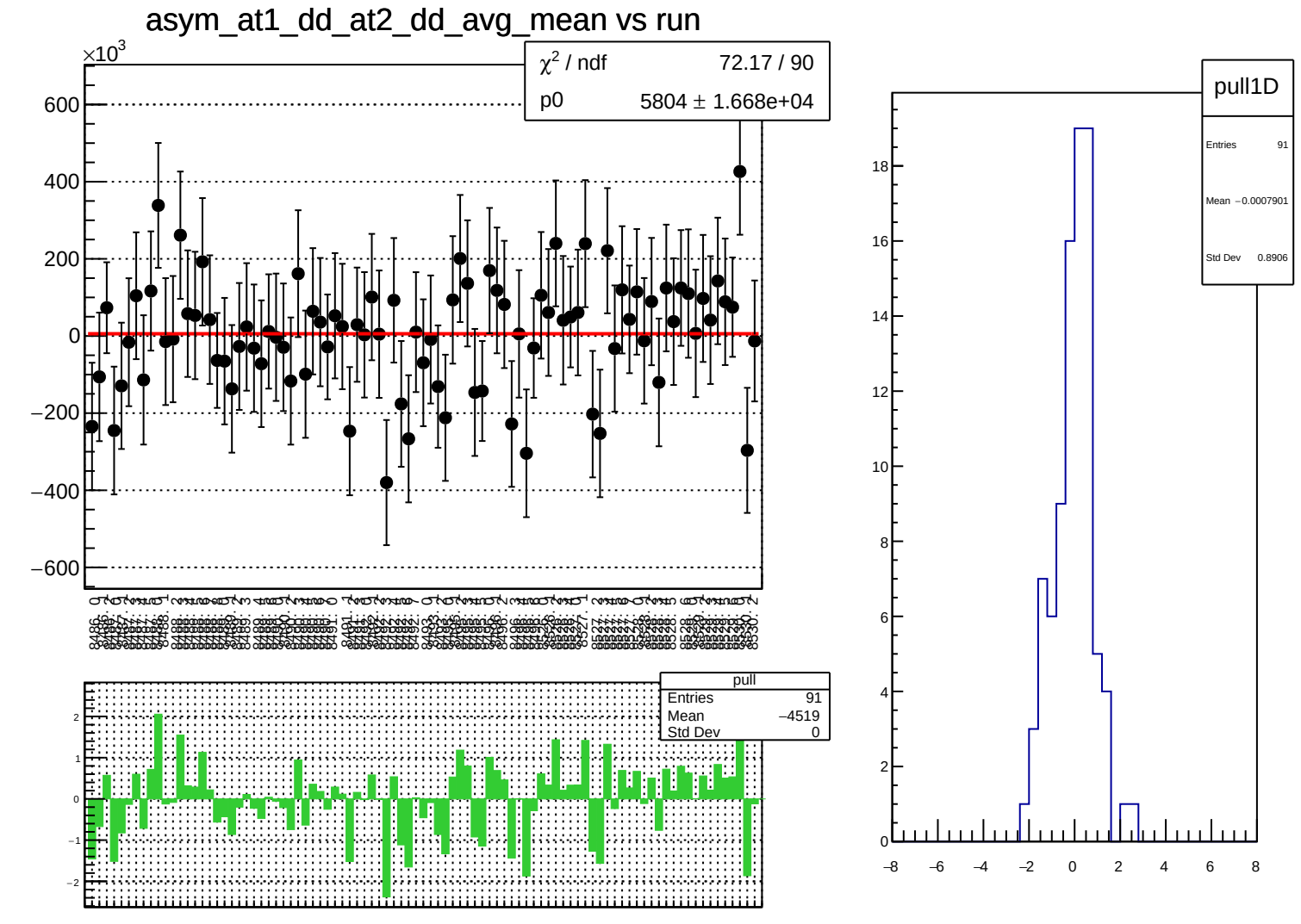

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
×10^3
χ² / ndf 71.77 / 90
p0 7414 ± 1.667e+04
600
400
200
0
−200
−400
−600
pull
Entries 91
Mean −3226
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.001082
Std Dev 0.8881
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

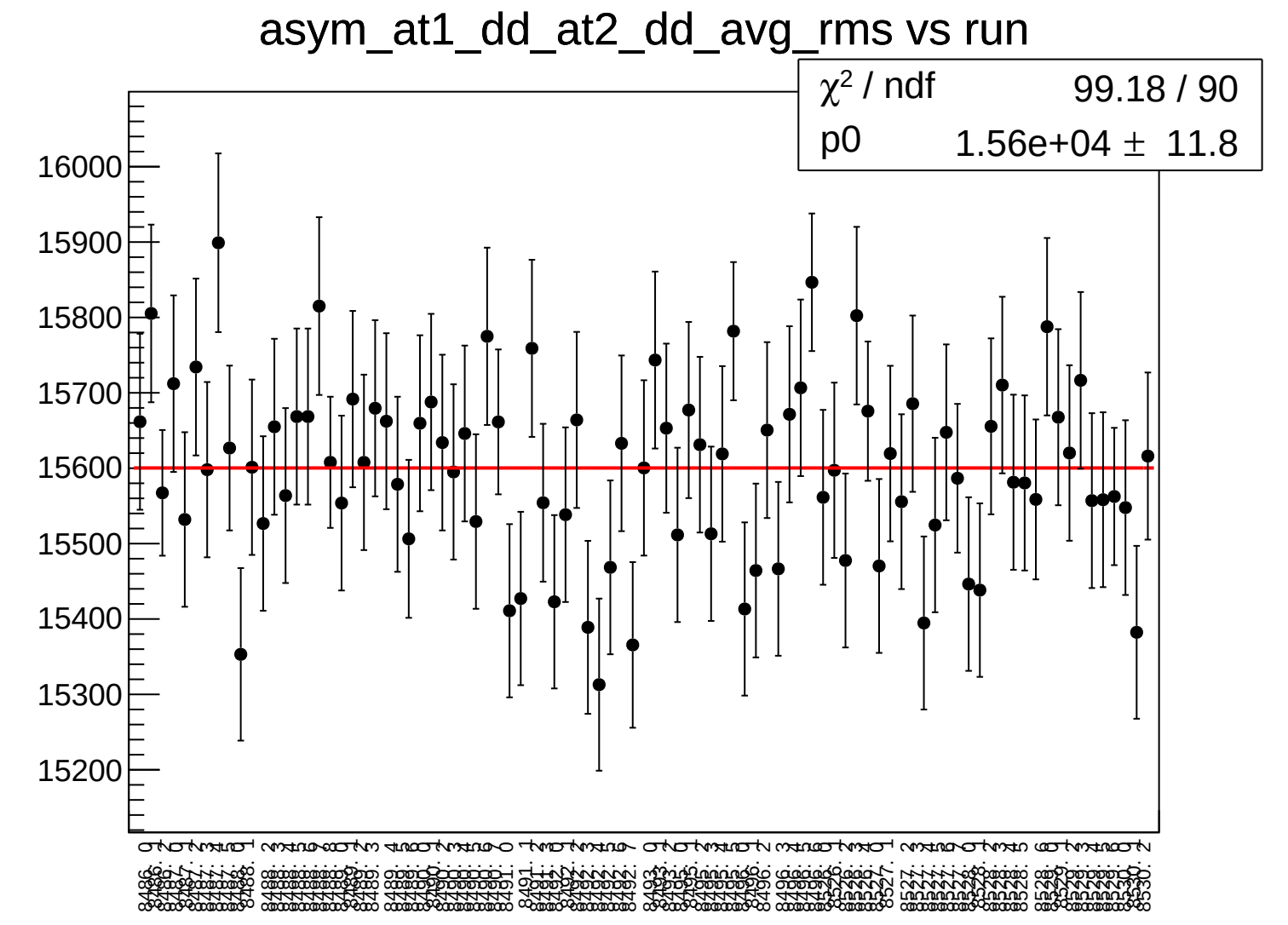

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 100 / 90
p0 1.559e+04 ± 11.79
16000
15900
15800
15700
15600
15500
15400
15300
15200
15100

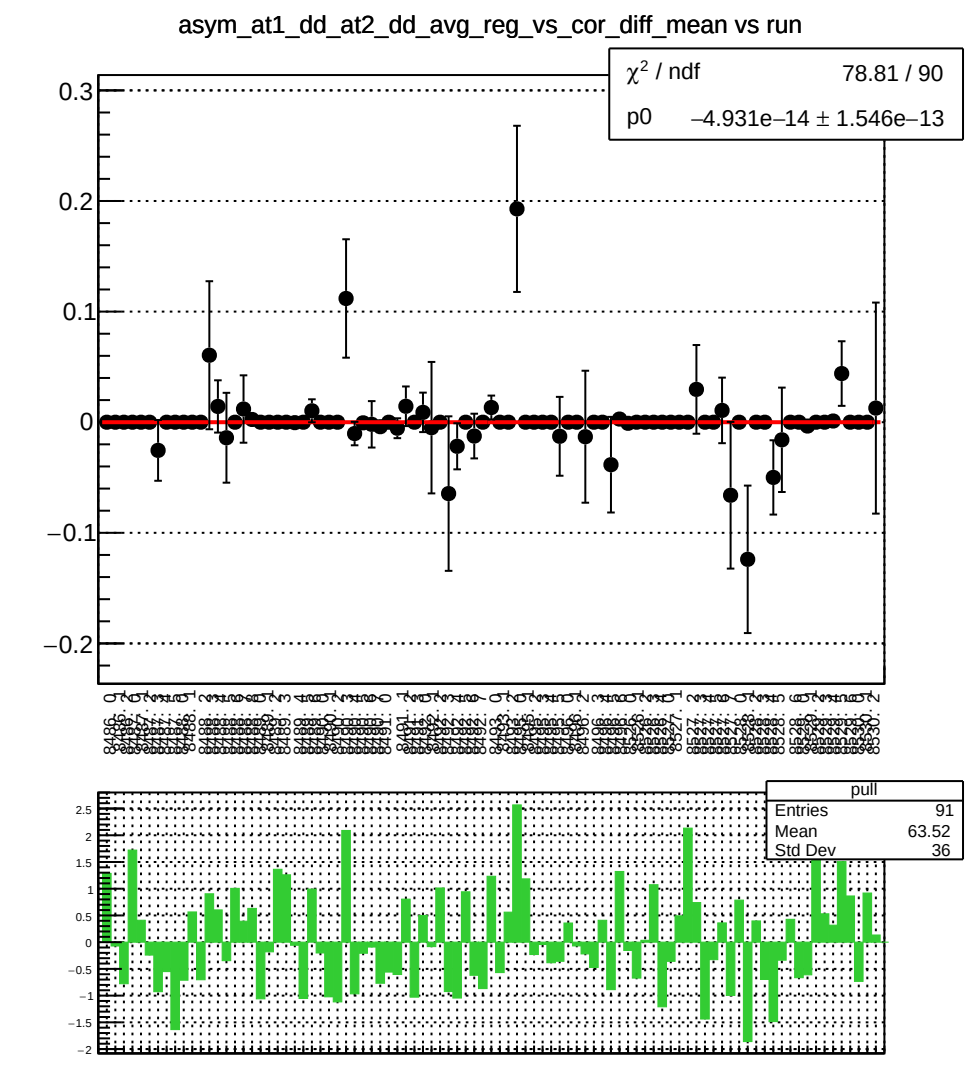

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 69.76 / 90
p0 1553 ± 519.6
20000
15000
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 664.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

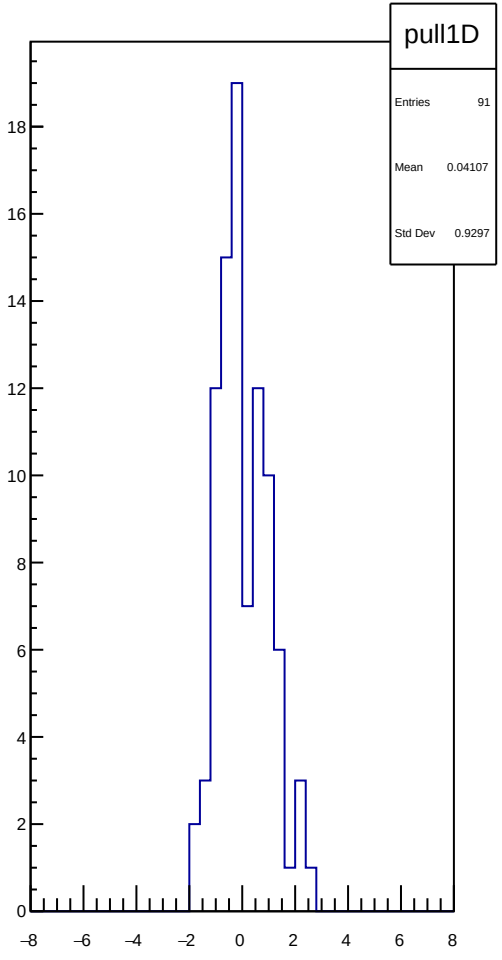

pull1D
Entries 91
Mean −0.00365
Std Dev 0.8755
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

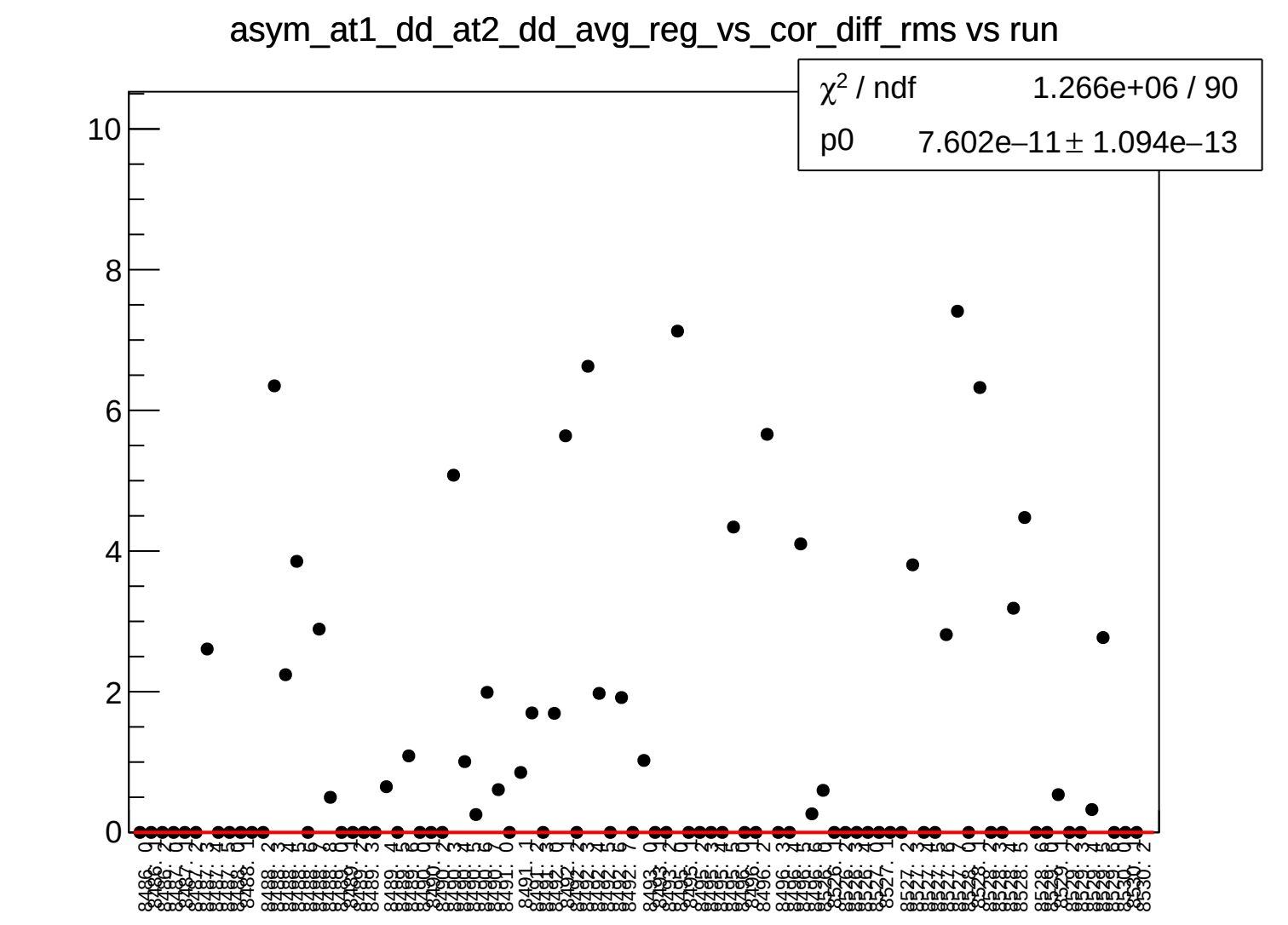

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 4443 / 90
p0 485.3 ± 0.3674
560
540
520
500
480
460
440

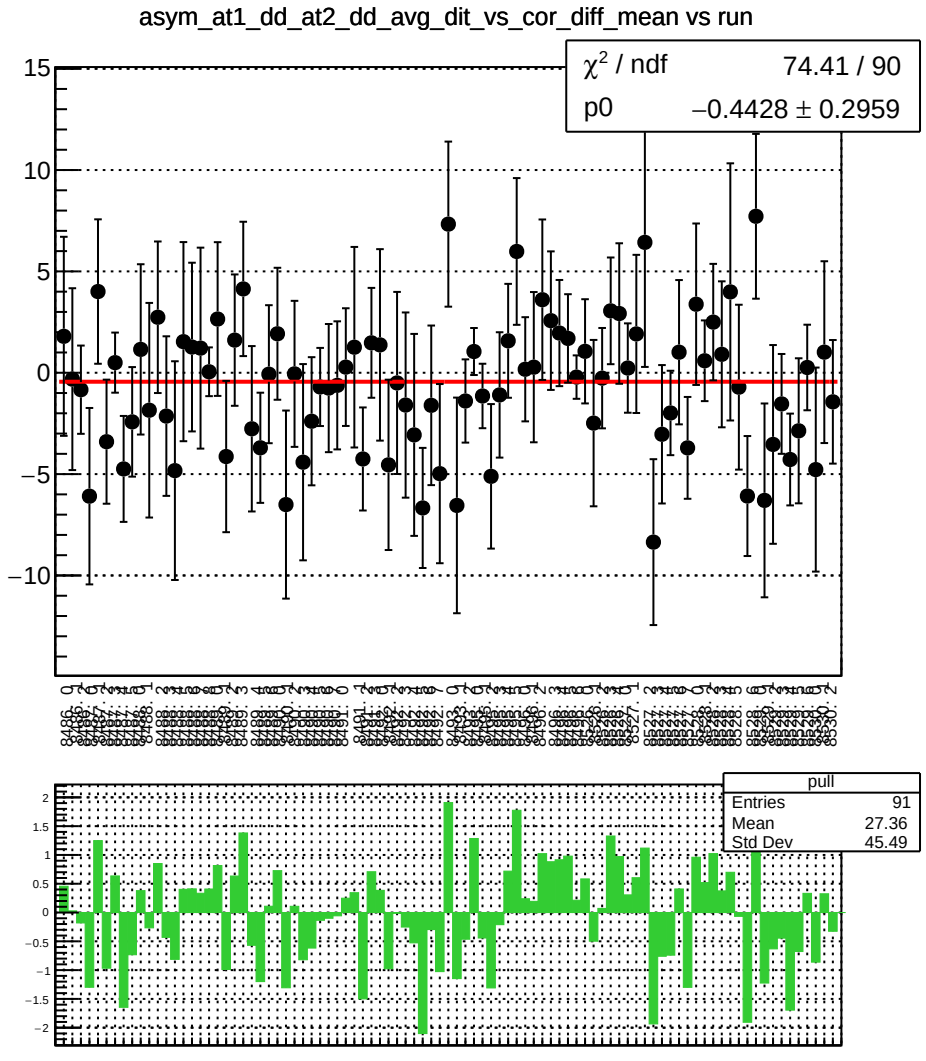

asym_at1_dd_at2_dd_avg_mean vs run
×10^3
χ² / ndf 72.17 / 90
p0 5804 ± 1.668e+04
600
400
200
0
−200
−400
−600
pull
Entries 91
Mean −4519
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.0007901
Std Dev 0.8906
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

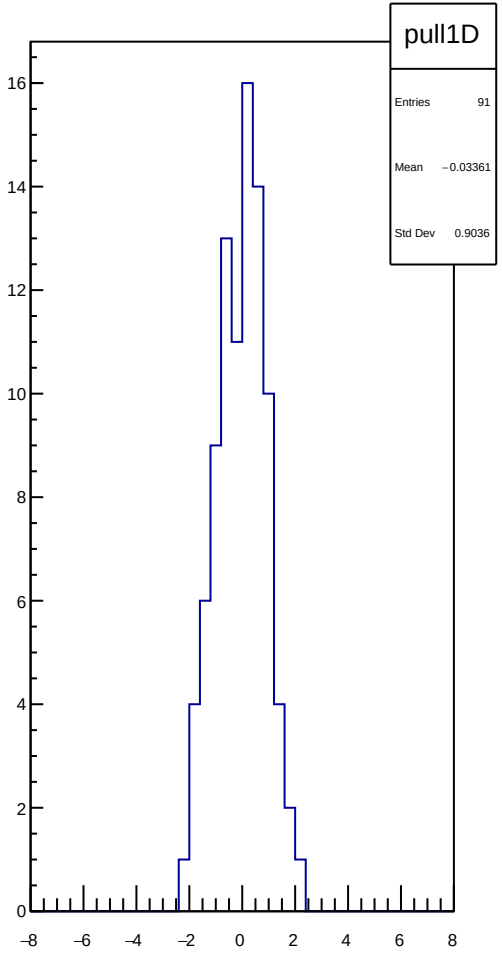

asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 99.18 / 90
p0 1.56e+04 ± 11.8
16000
15900
15800
15700
15600
15500
15400
15300
15200

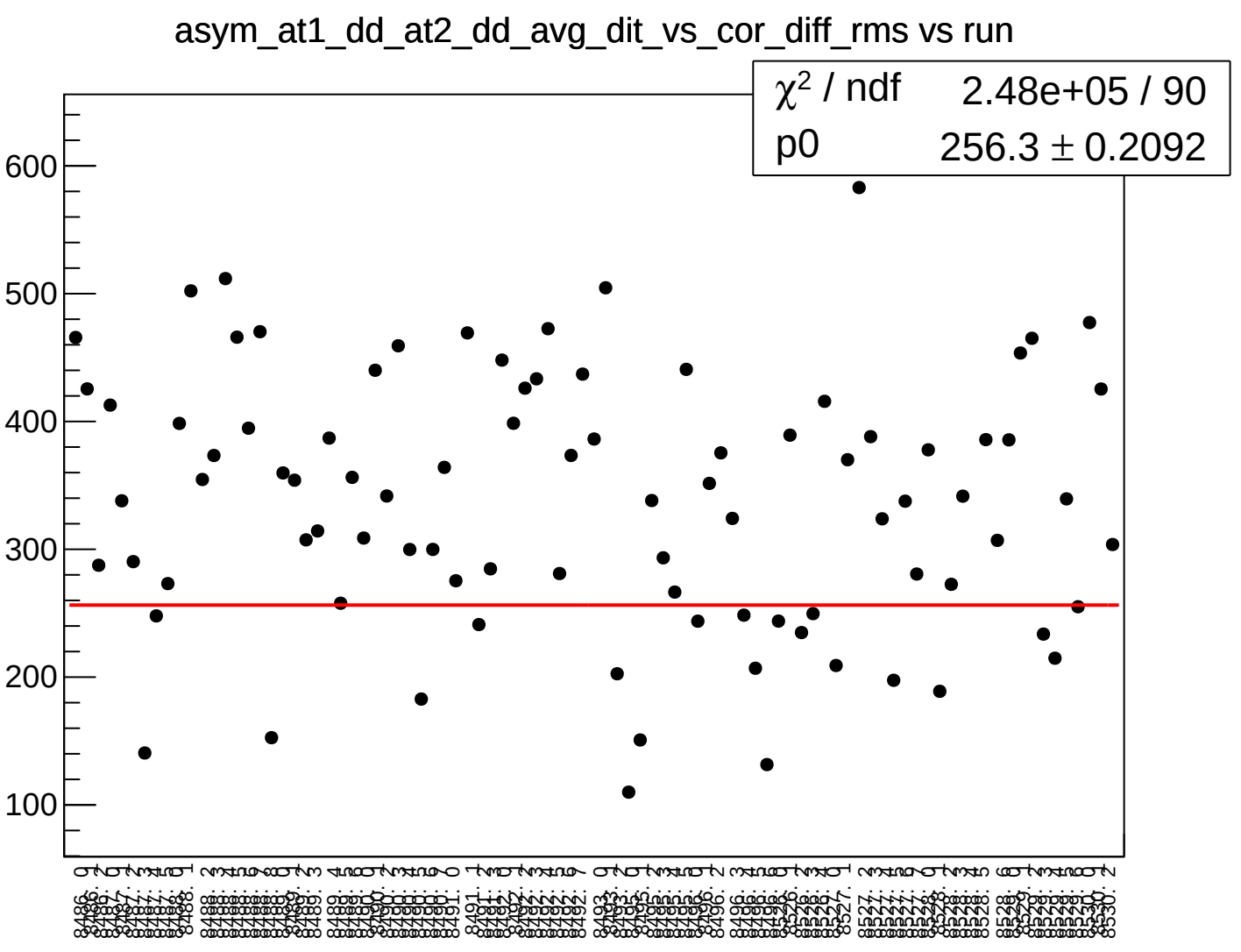

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 78.81 / 90
p0 −4.931e−14 ± 1.546e−13
pull
Entries 91
Mean 63.52
Std Dev 36

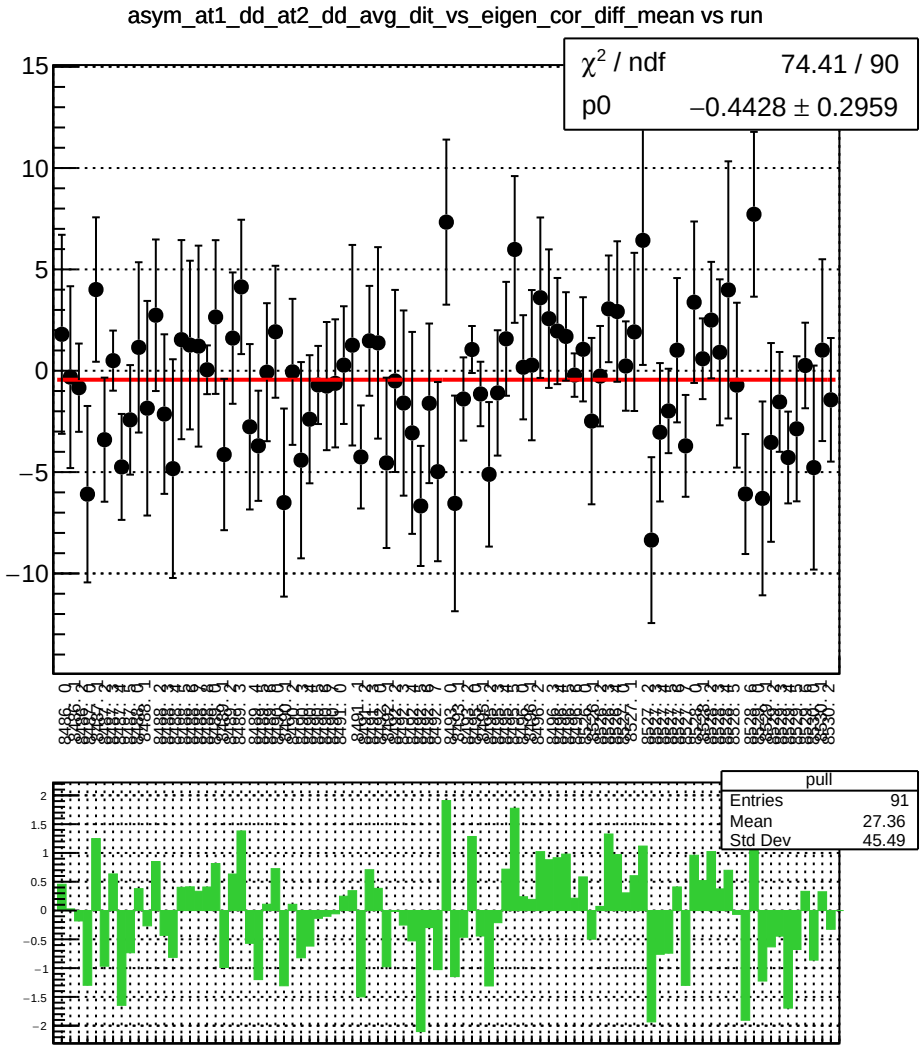

pull1D
Entries 91
Mean 0.04107
Std Dev 0.9297

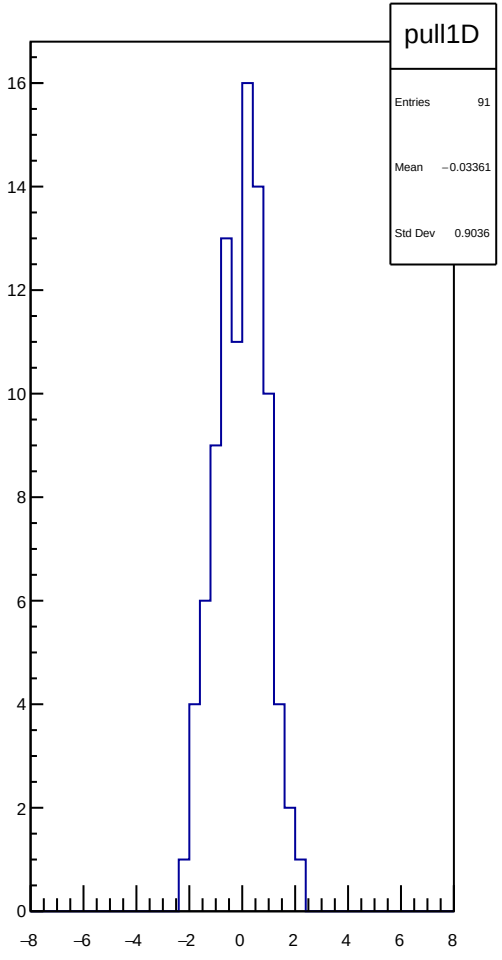

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.266e+06 / 90
p0 7.602e−11 ± 1.094e−13
10
8
6
4
2
0

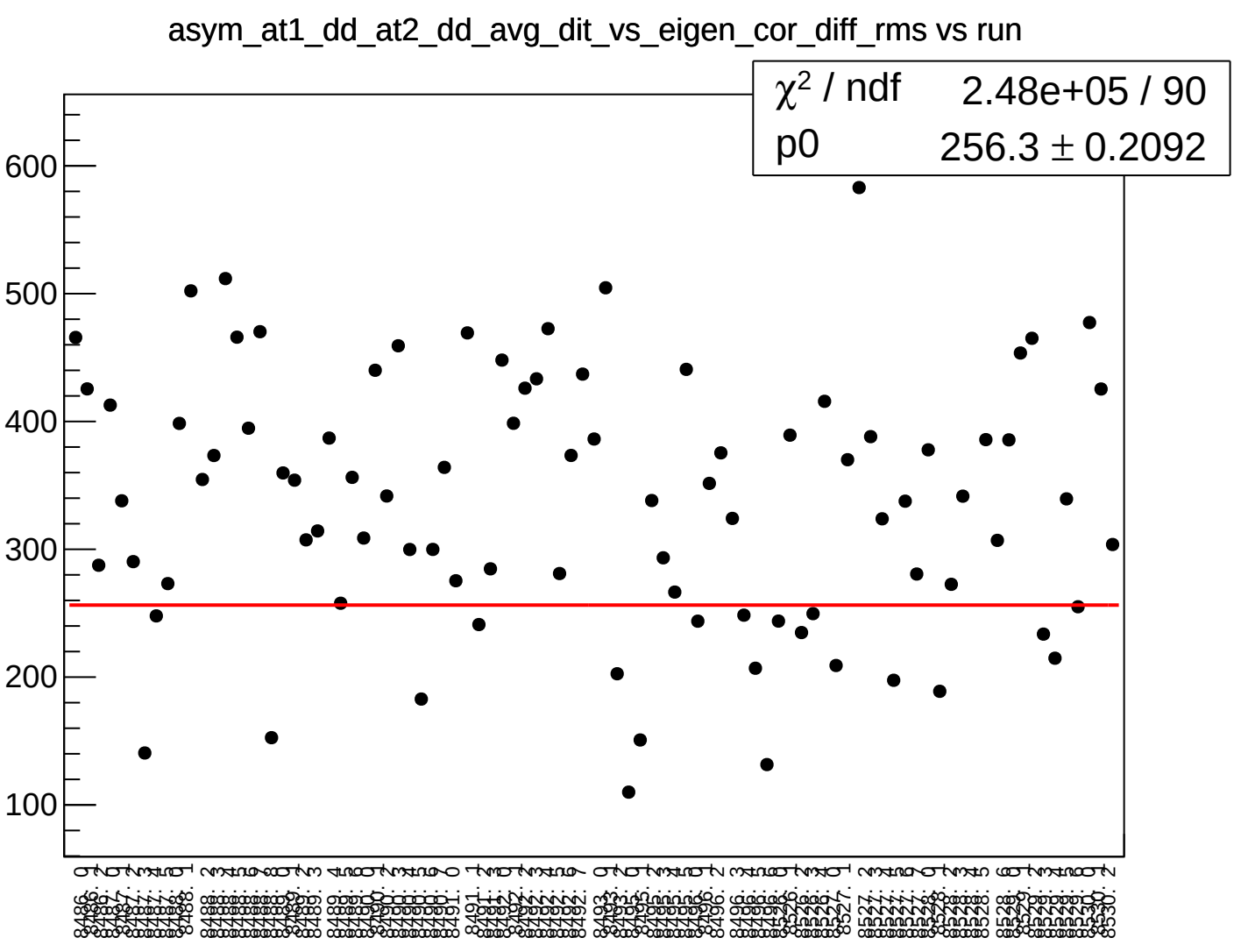

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 74.41 / 90
p0 −0.4428 ± 0.2959
pull
Entries 91
Mean 27.36
Std Dev 45.49

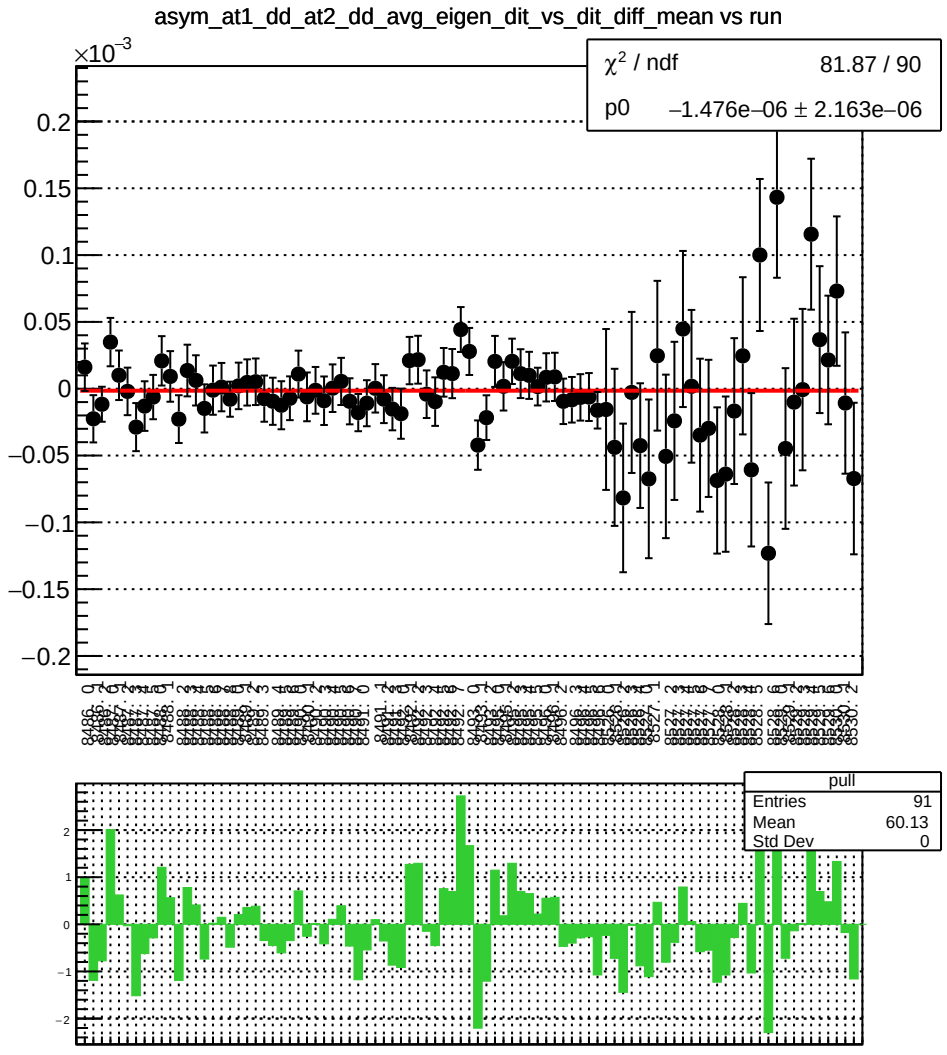

pull1D
Entries 91
Mean −0.03361
Std Dev 0.9036

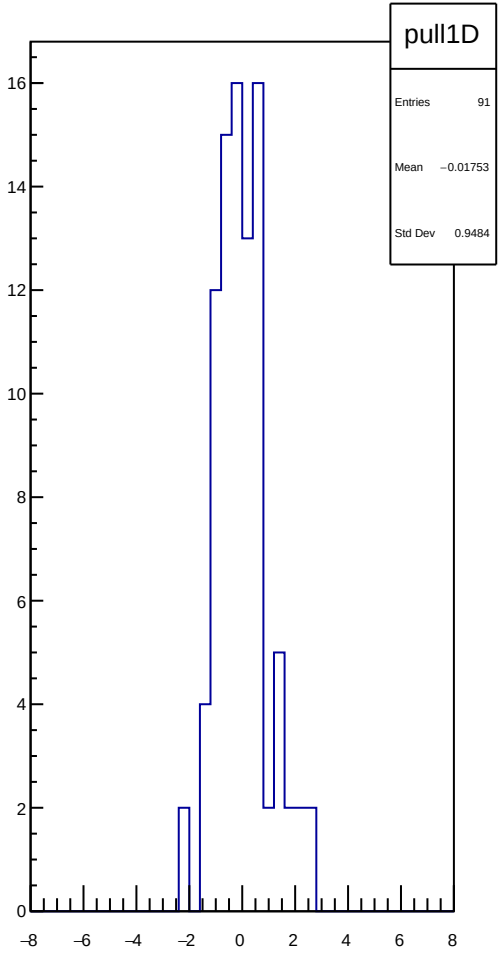

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.48e+05 / 90
p0 256.3 ± 0.2092
600
500
400
300
200
100

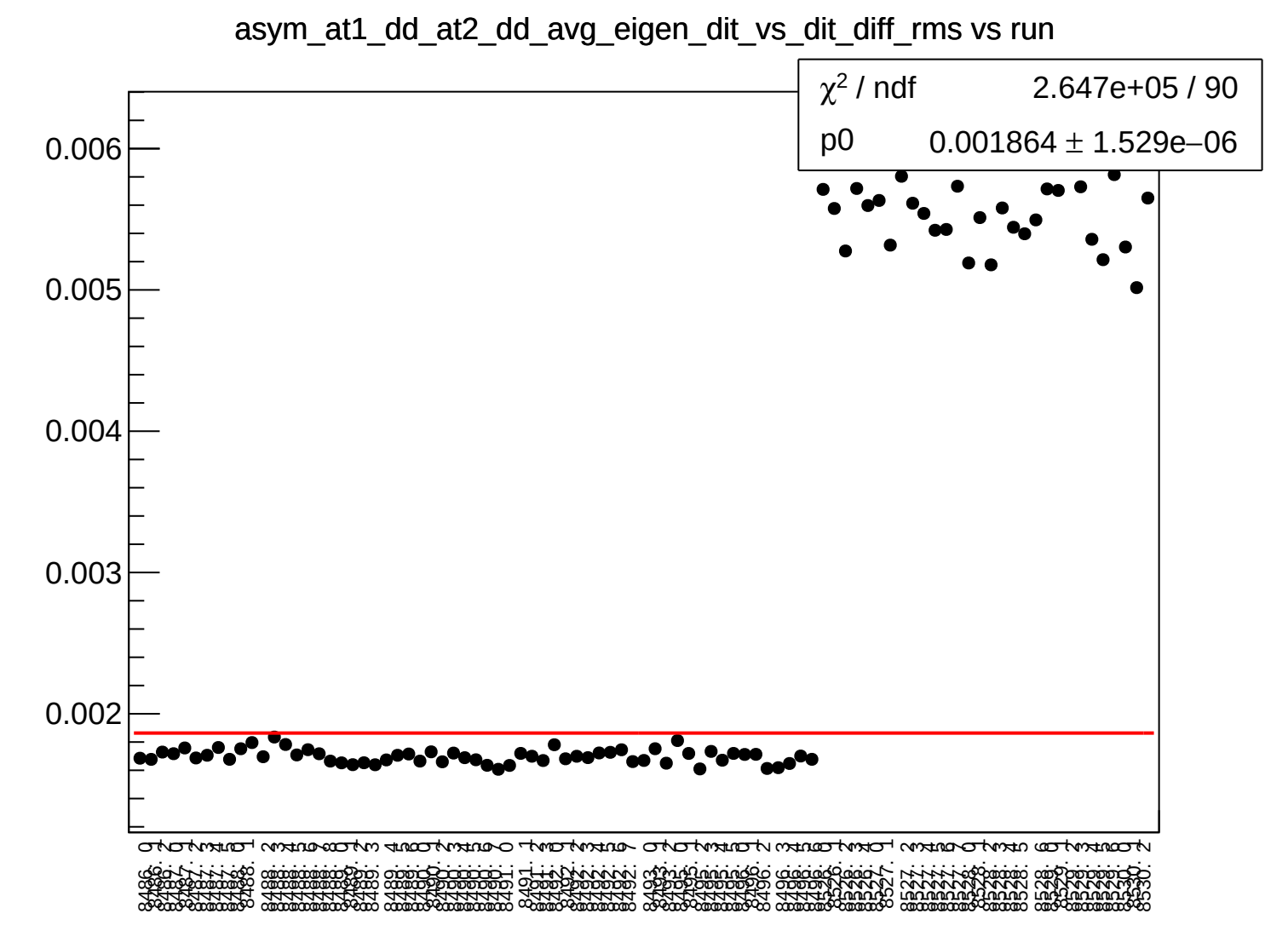

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.41 / 90
p0 −0.4428 ± 0.2959
pull
Entries 91
Mean 27.36
Std Dev 45.49

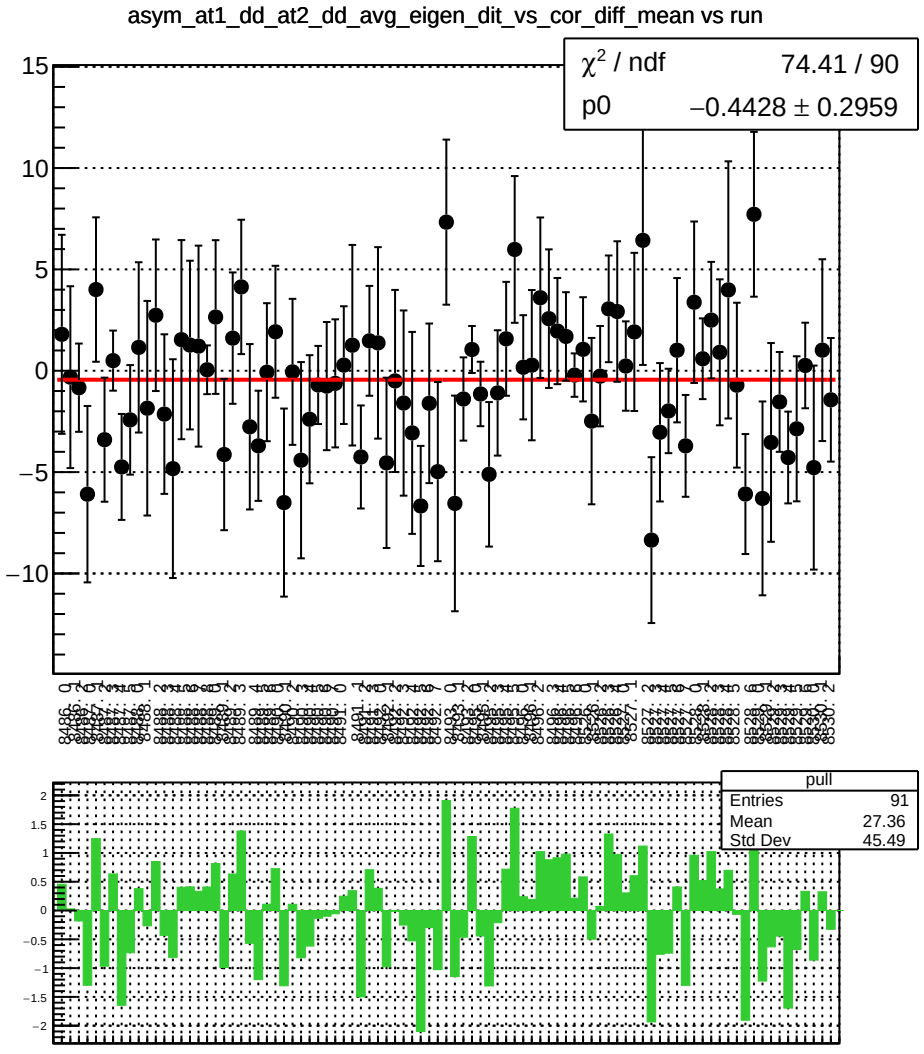

pull1D
Entries 91
Mean −0.03361
Std Dev 0.9036

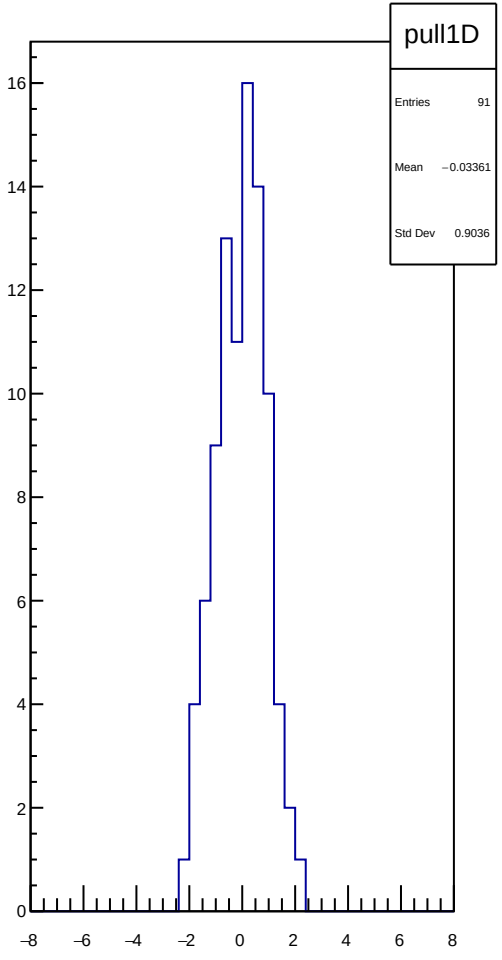

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.48e+05 / 90
p0 256.3 ± 0.2092
600
500
400
300
200
100

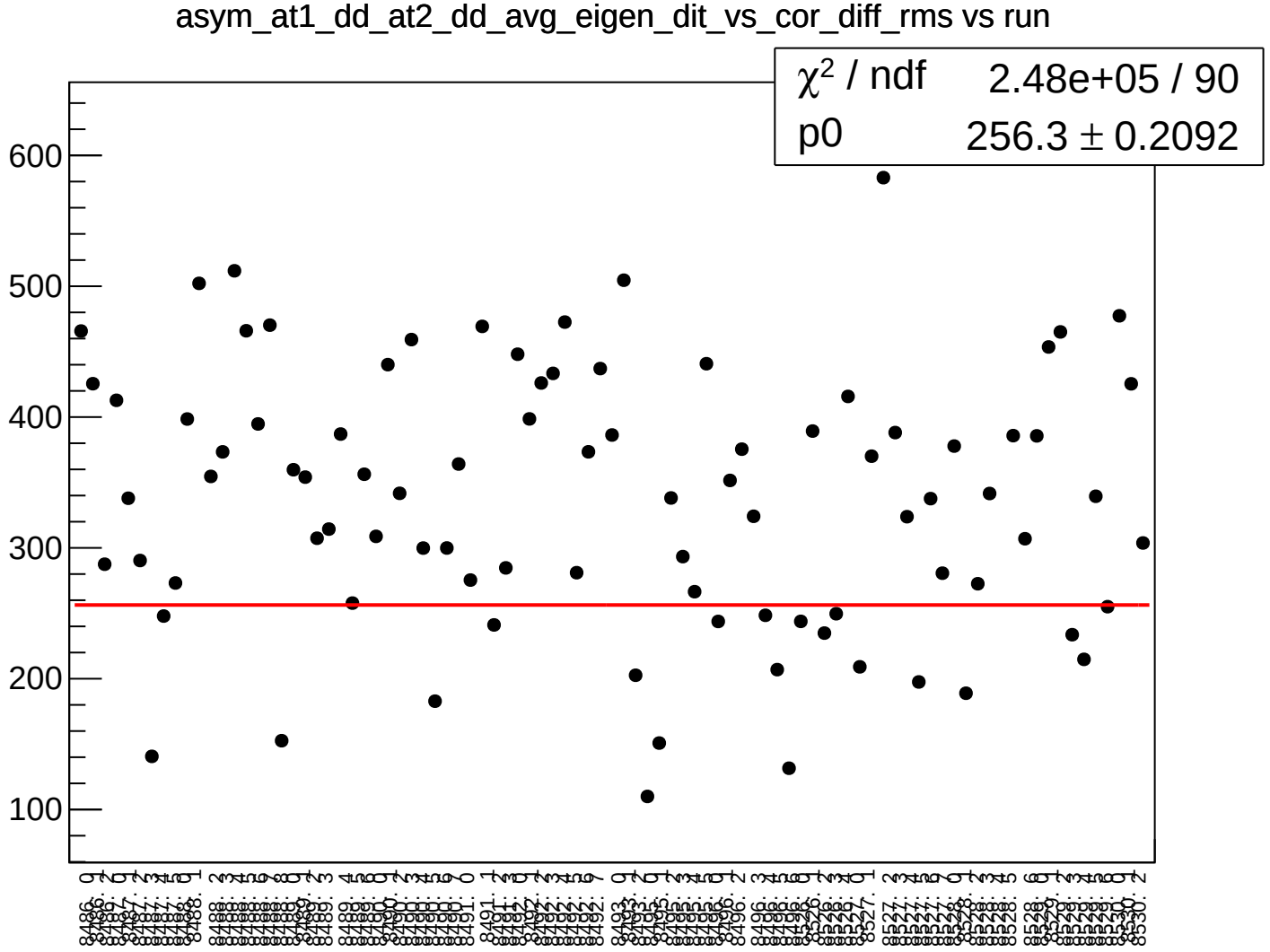

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.87 / 90
p0 −1.476e−06 ± 2.163e−06
pull
Entries 91
Mean 60.13
Std Dev 0

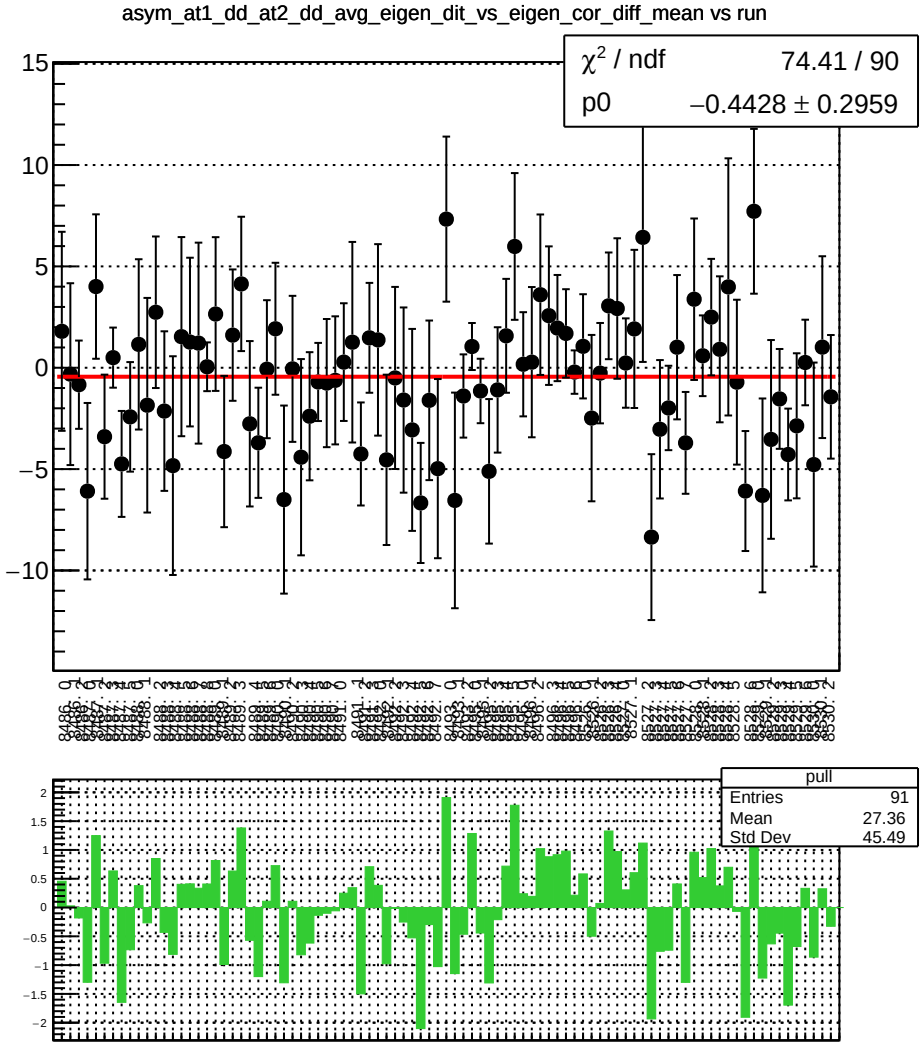

pull1D
Entries 91
Mean −0.01753
Std Dev 0.9484

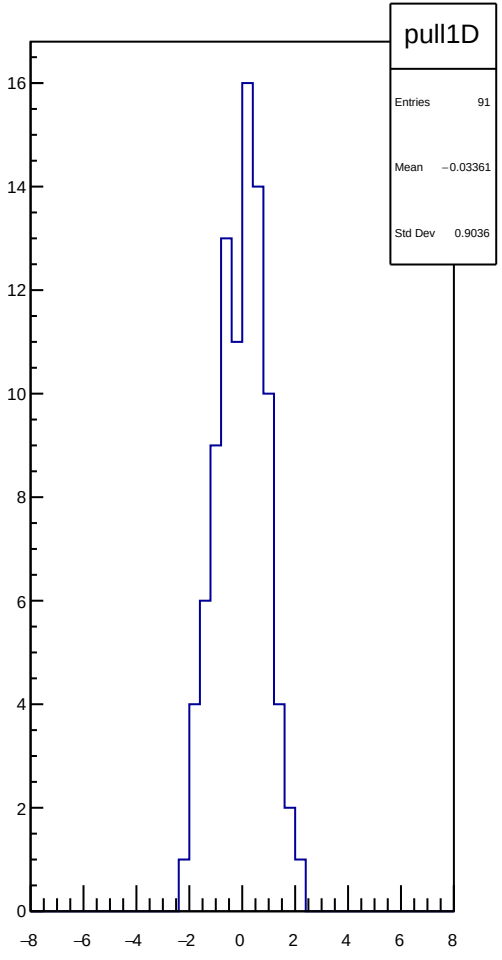

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.647e+05 / 90
p0 0.001864 ± 1.529e−06
0.006
0.005
0.004
0.003
0.002

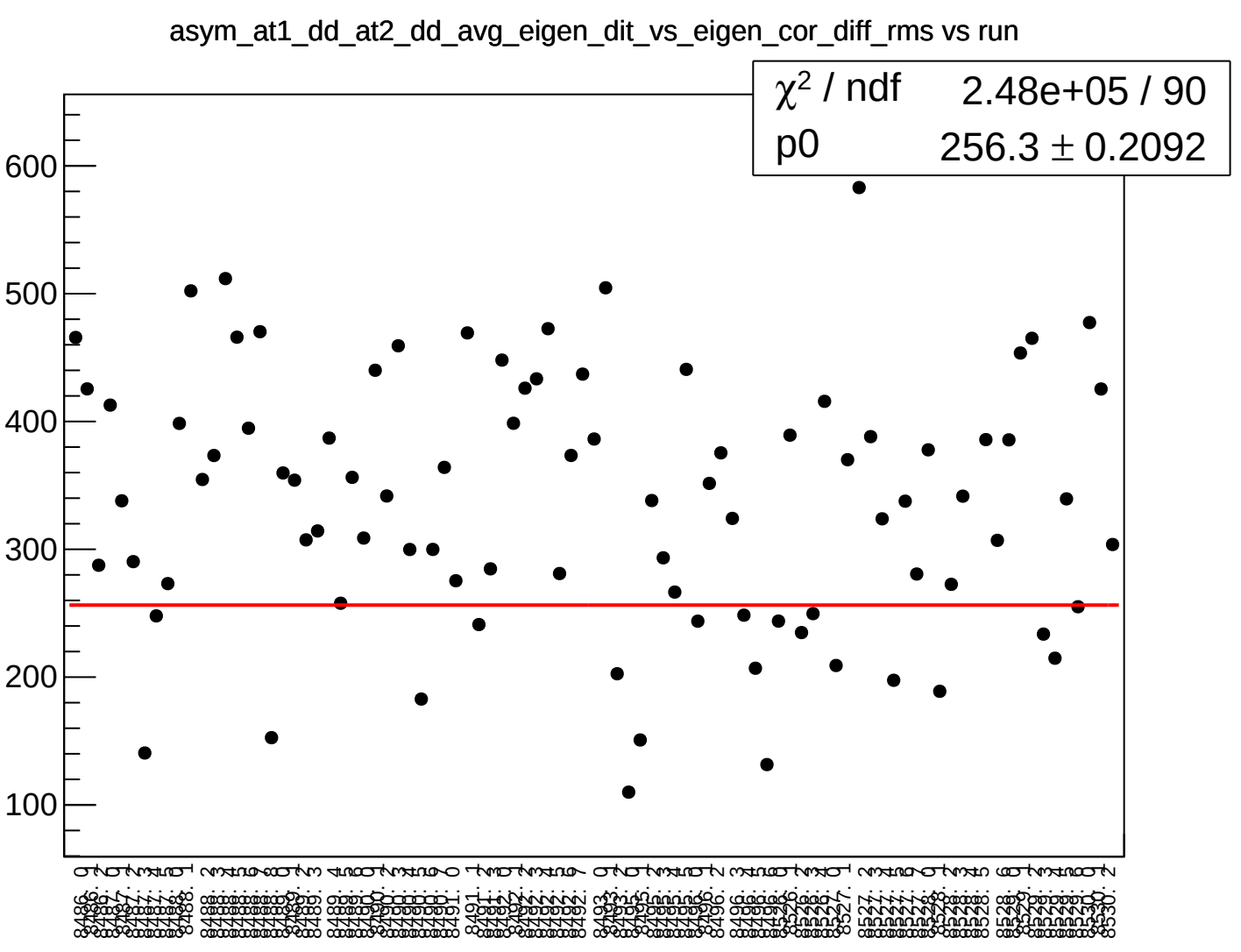

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.41 / 90
p0 −0.4428 ± 0.2959
pull
Entries 91
Mean 27.36
Std Dev 45.49

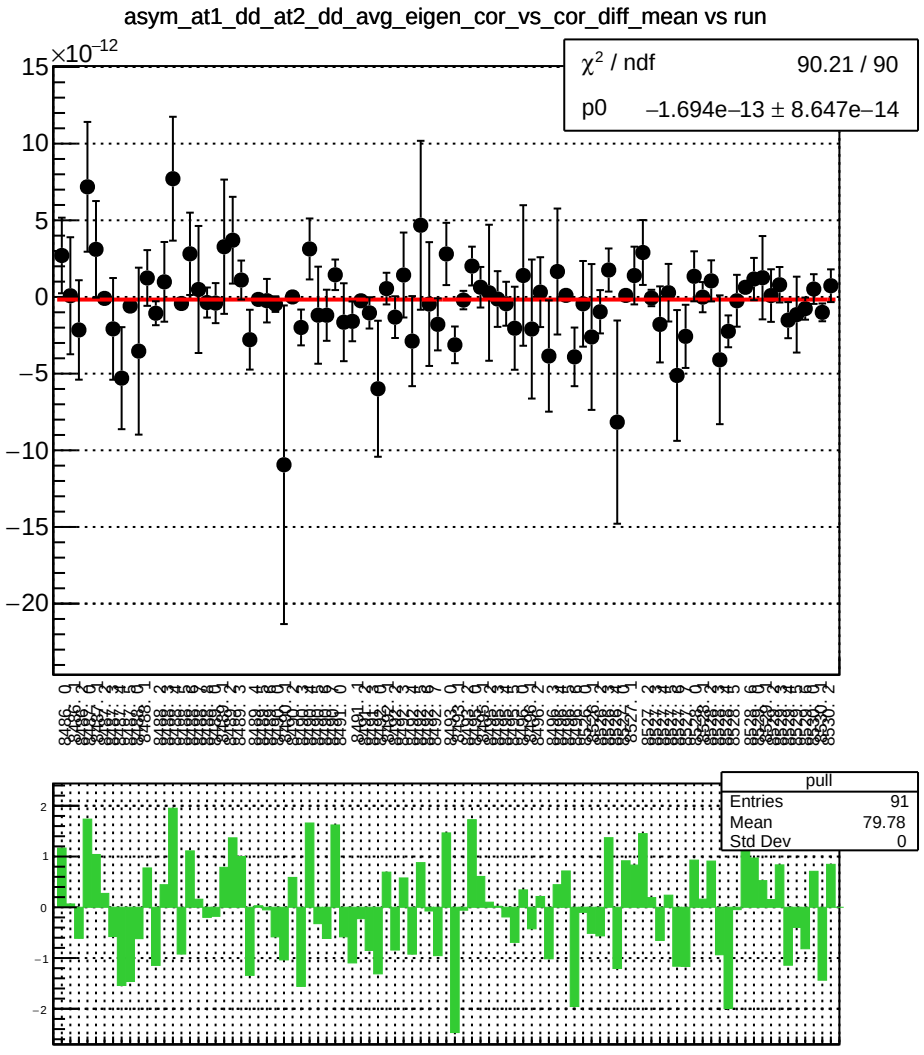

pull1D
Entries 91
Mean −0.03361
Std Dev 0.9036

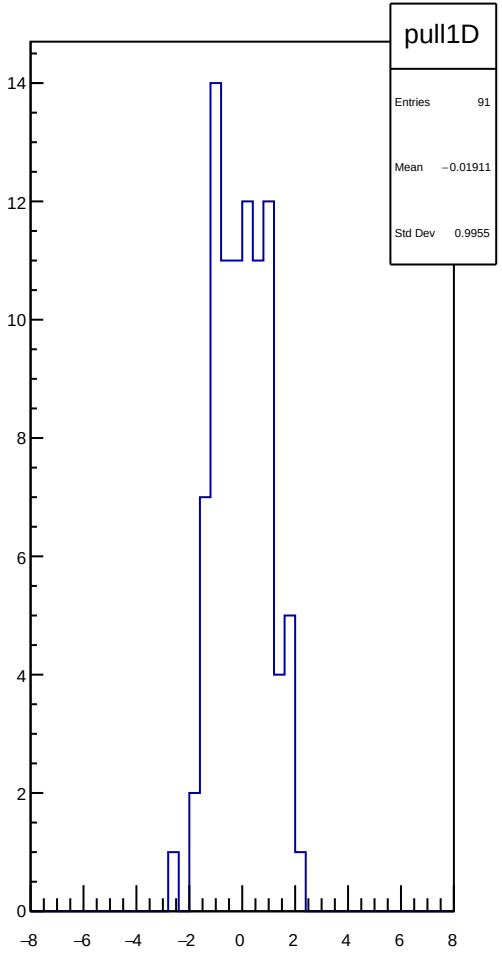

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.48e+05 / 90
p0 256.3 ± 0.2092
600
500
400
300
200
100

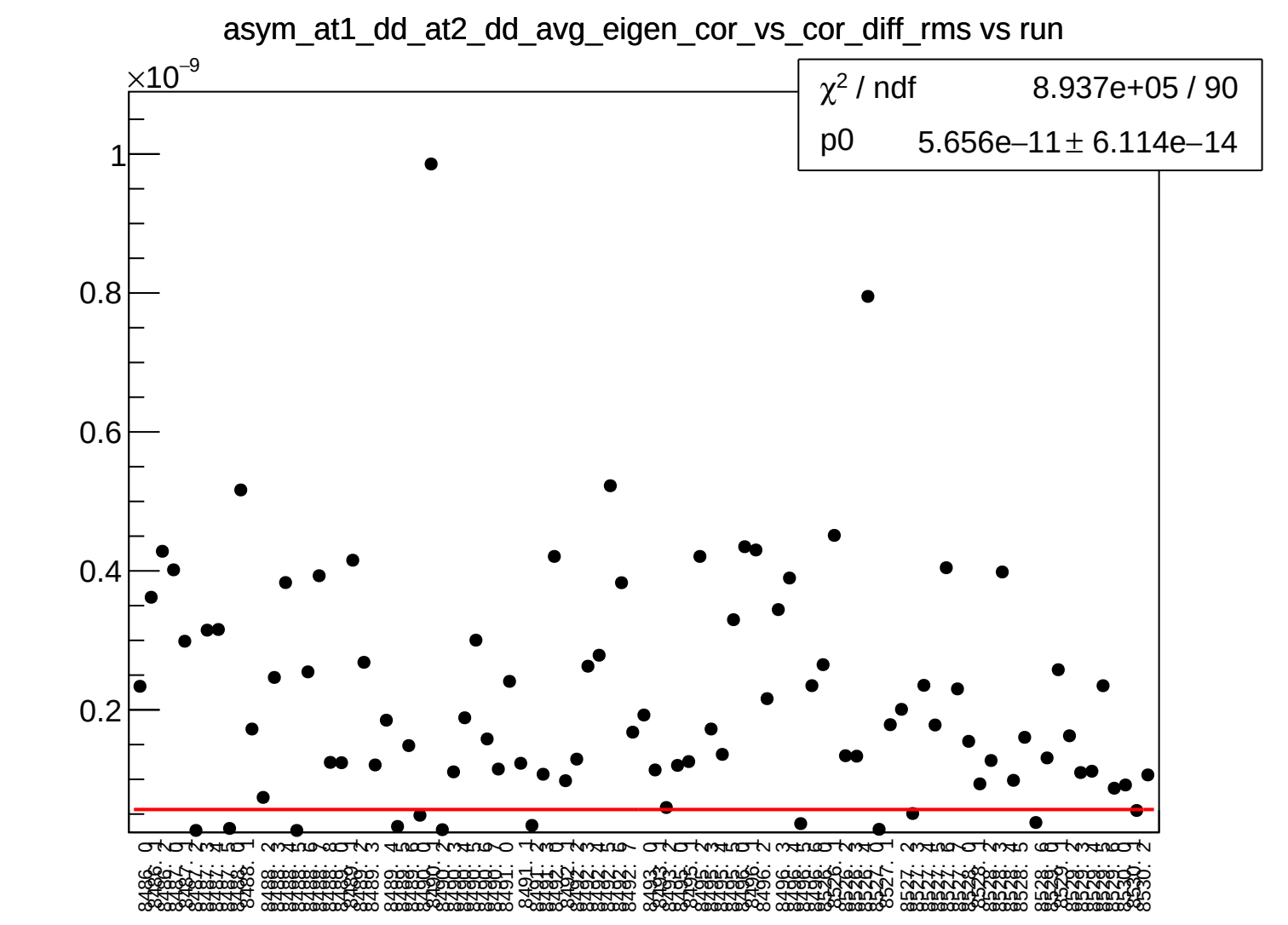

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.41 / 90
p0 −0.4428 ± 0.2959
pull
Entries 91
Mean 27.36
Std Dev 45.49

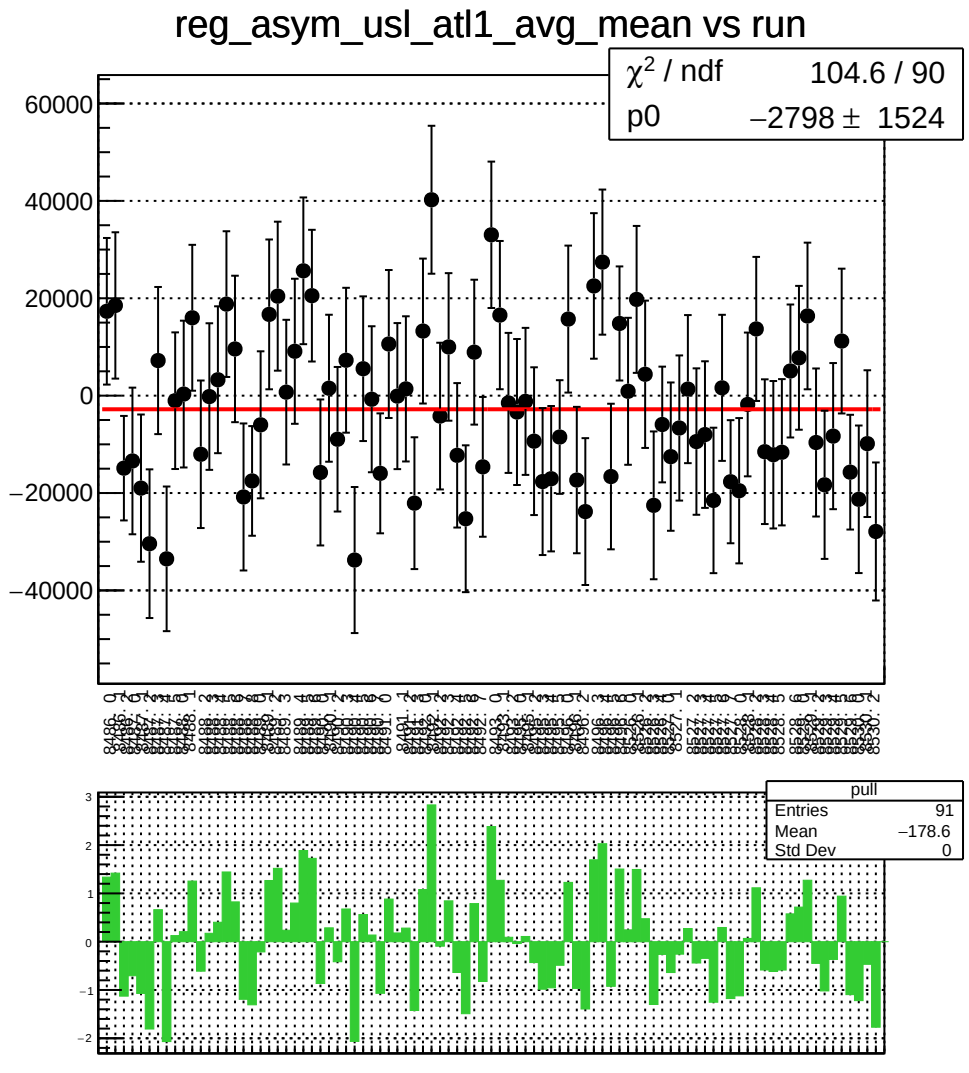

pull1D
Entries 91
Mean −0.03361
Std Dev 0.9036

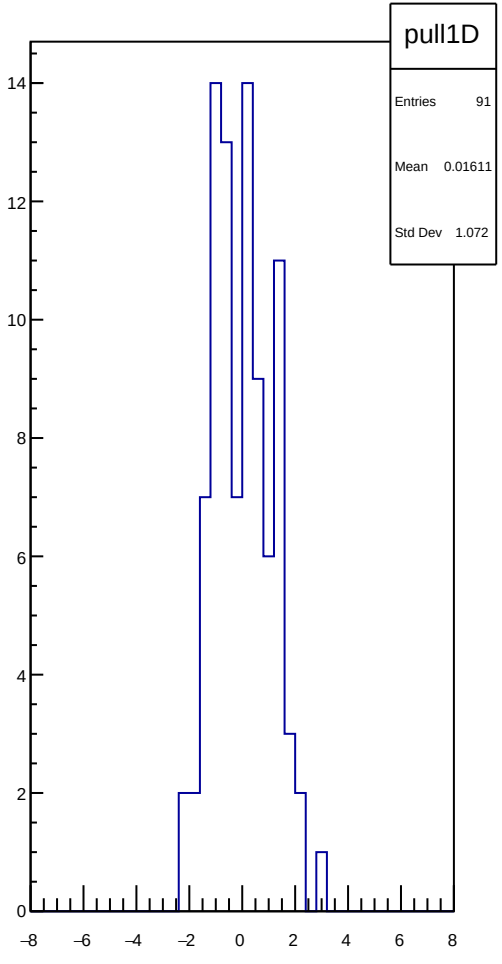

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.48e+05 / 90
p0 256.3 ± 0.2092
600
500
400
300
200
100

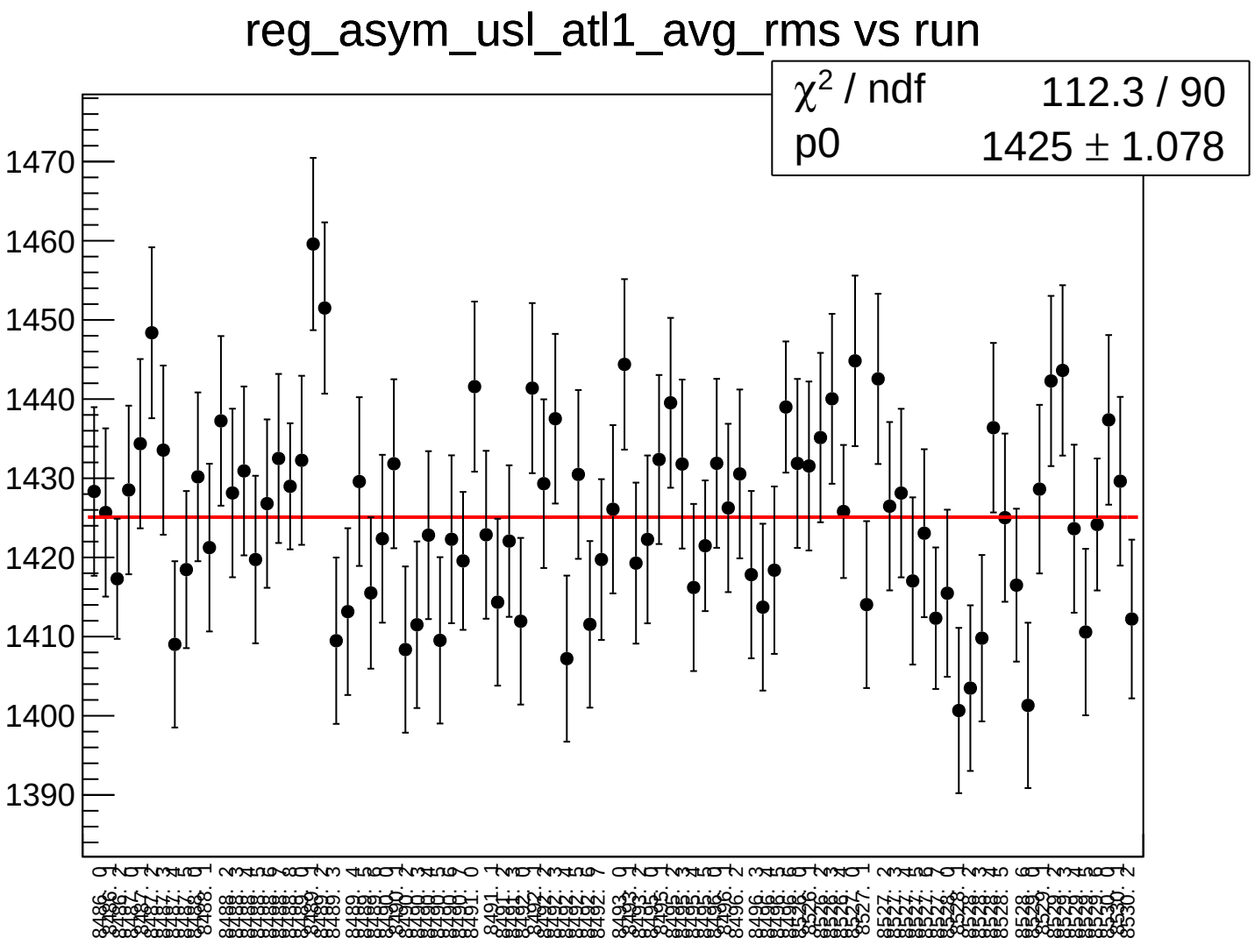

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.21 / 90
p0 −1.694e−13 ± 8.647e−14
pull
Entries 91
Mean 79.78
Std Dev 0

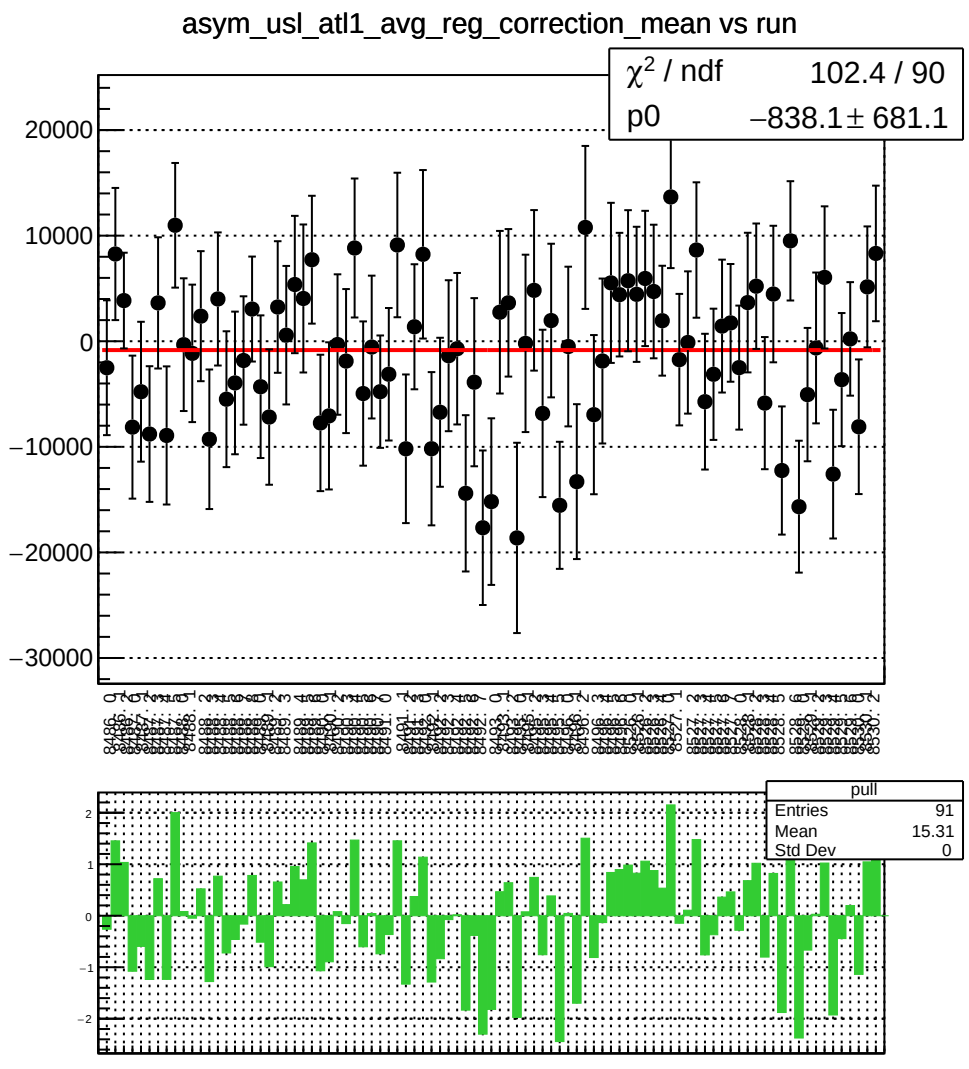

pull1D
Entries 91
Mean −0.01911
Std Dev 0.9955

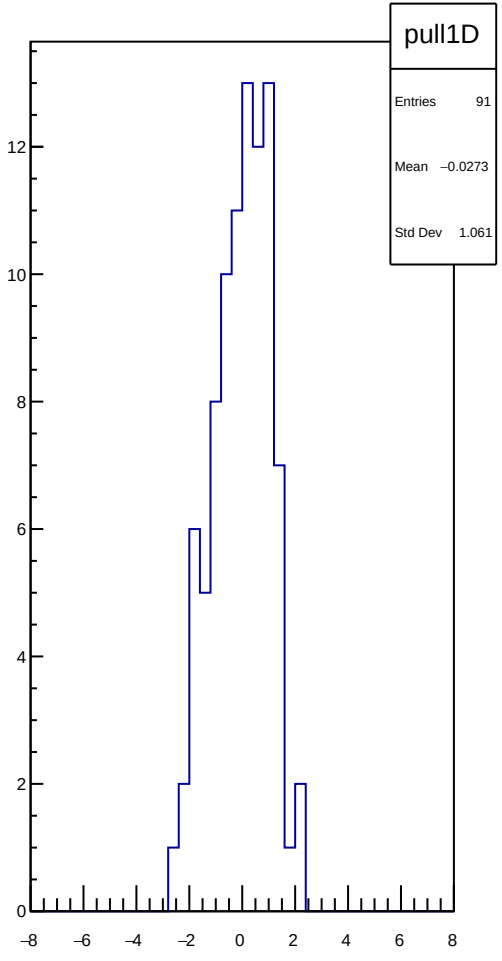

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.937e+05 / 90
p0 5.656e−11 ± 6.114e−14
1
0.8
0.6
0.4
0.2

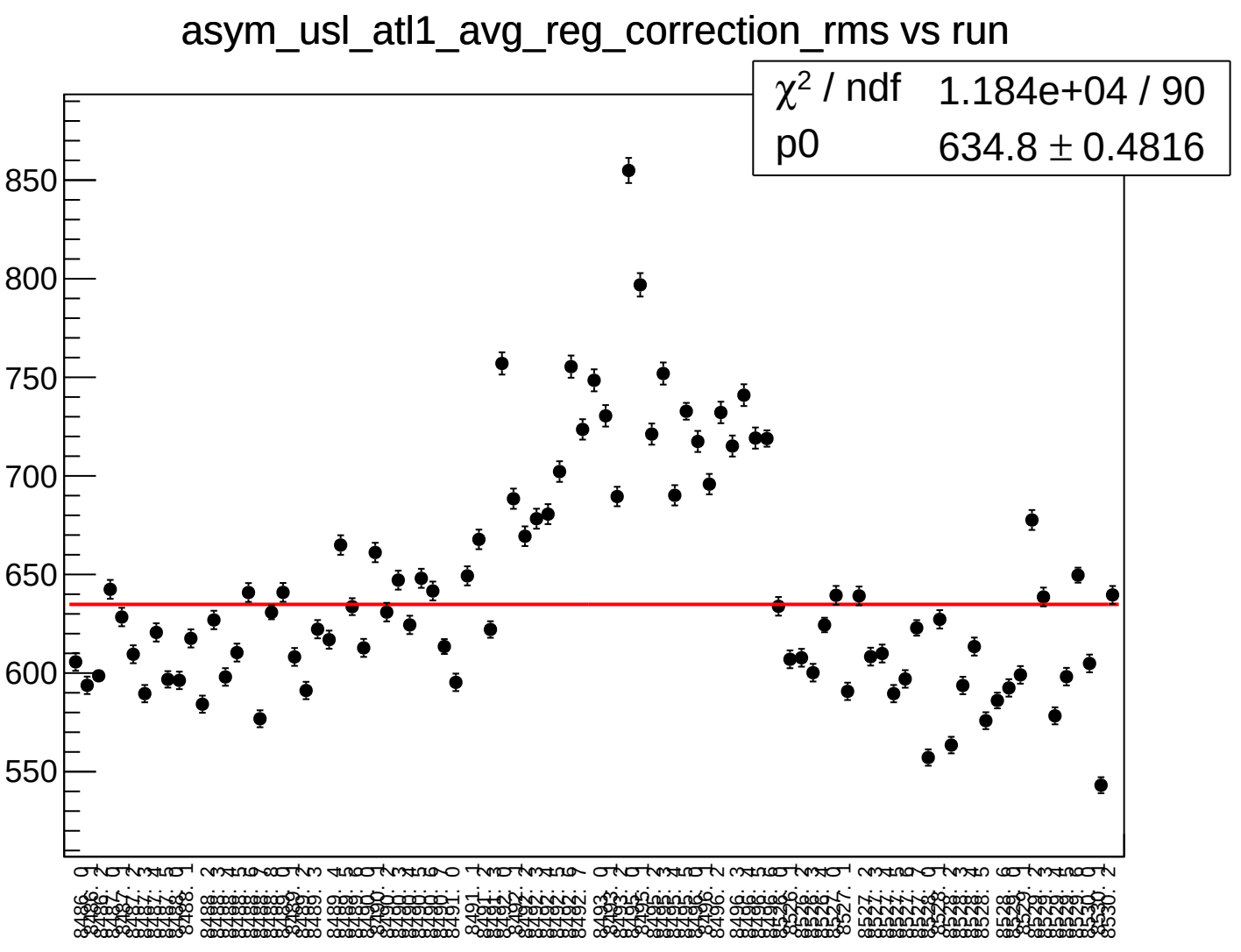

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 104.6 / 90
p0 −2798 ± 1524
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −178.6
Std Dev 0
3
2
1
0
−1
−2

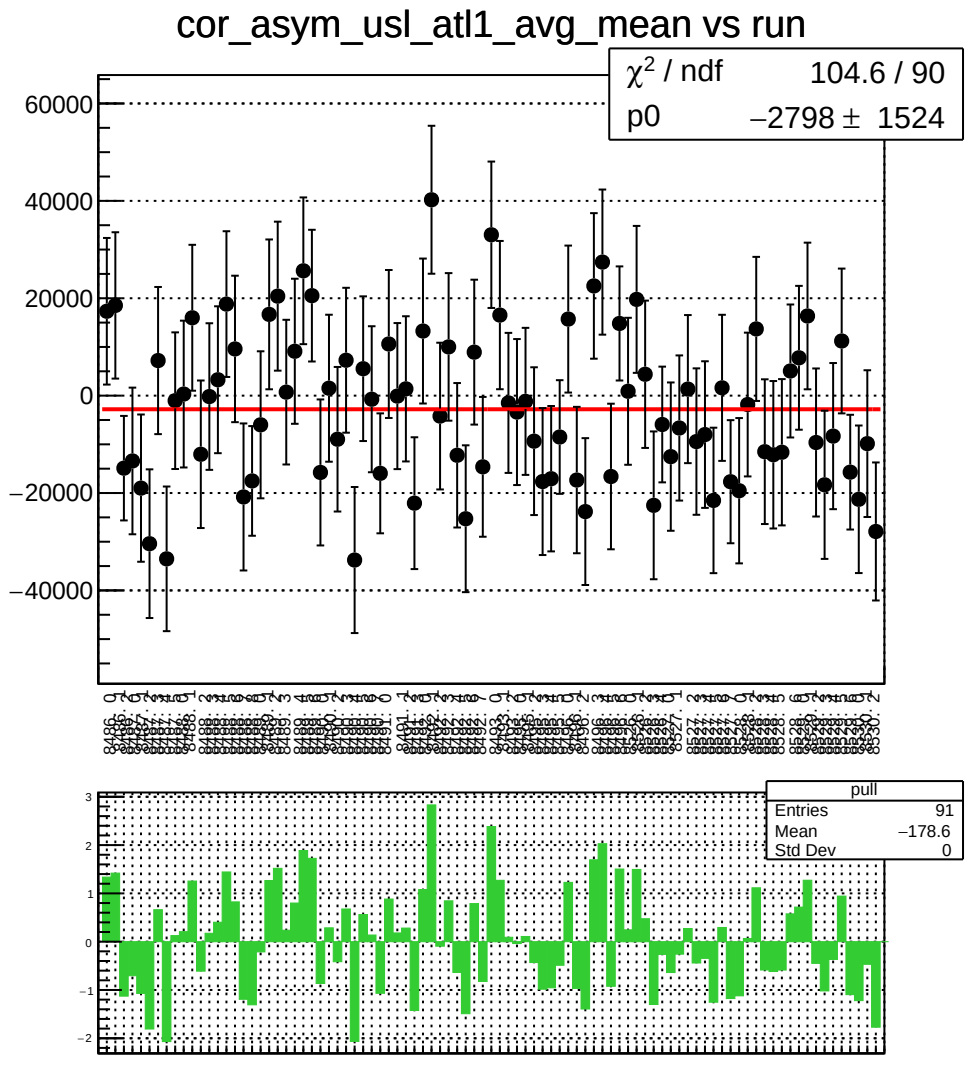

pull1D
Entries 91
Mean 0.01611
Std Dev 1.072
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

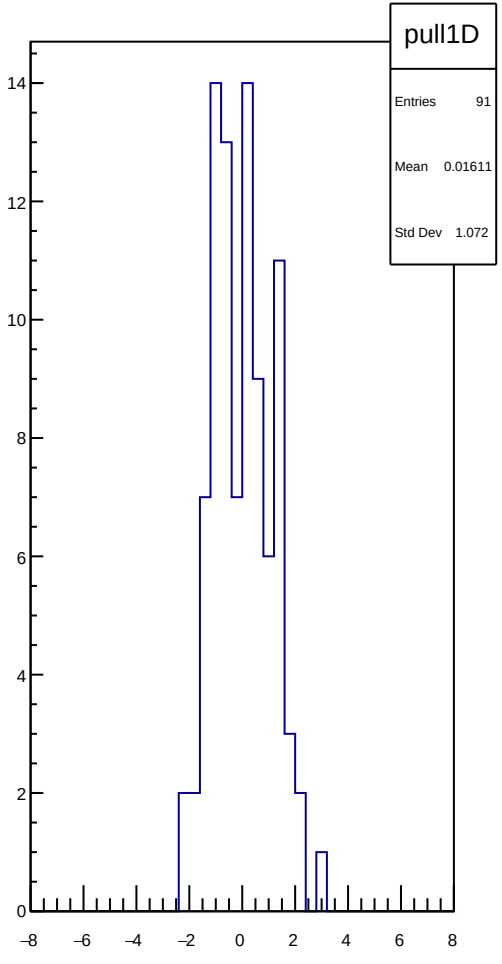

reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 112.3 / 90
p0 1425 ± 1.078
1470
1460
1450
1440
1430
1420
1410
1400
1390

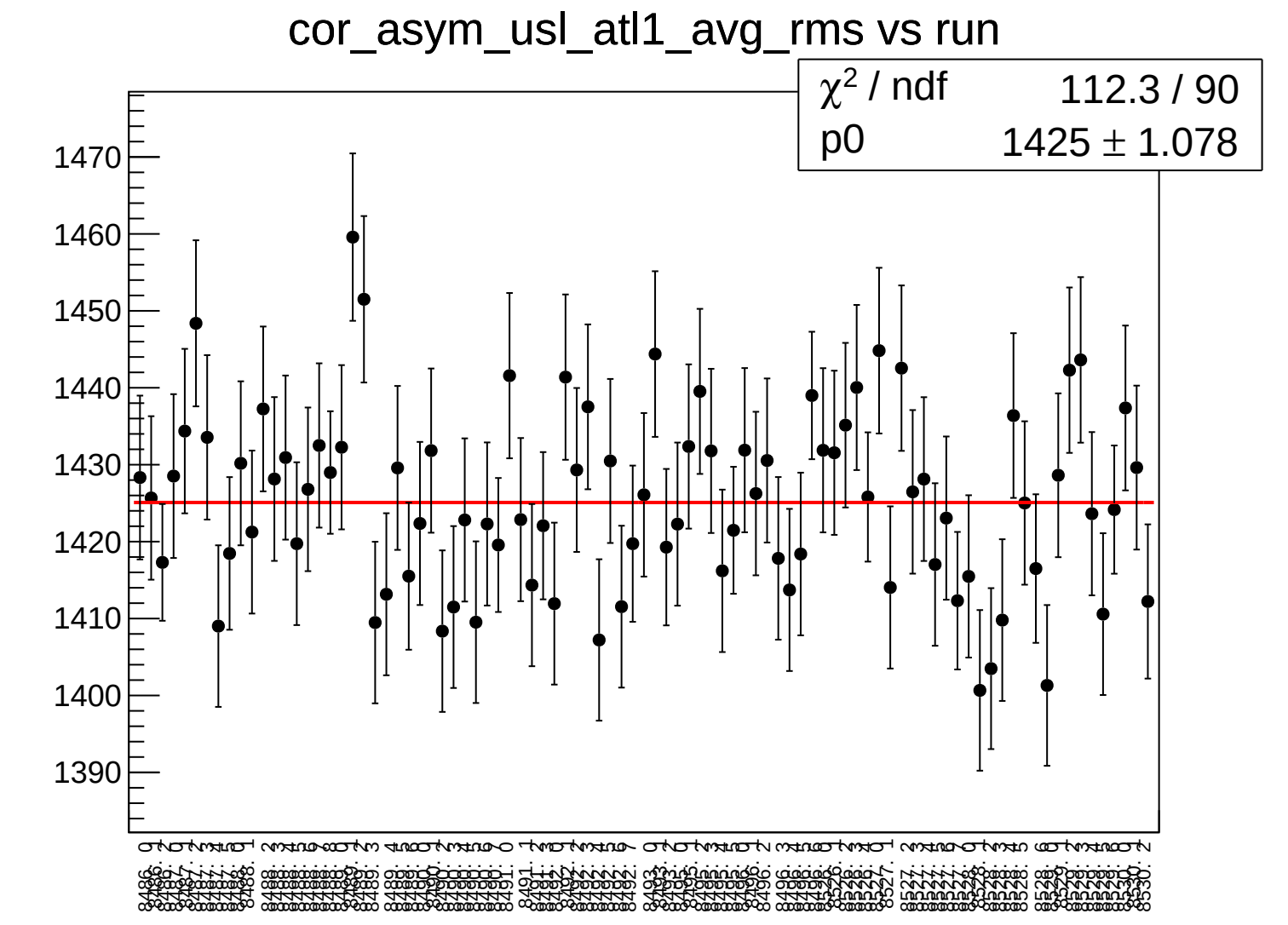

asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 102.4 / 90
p0 −838.1 ± 681.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 15.31
Std Dev 0
2
1
0
−1
−2

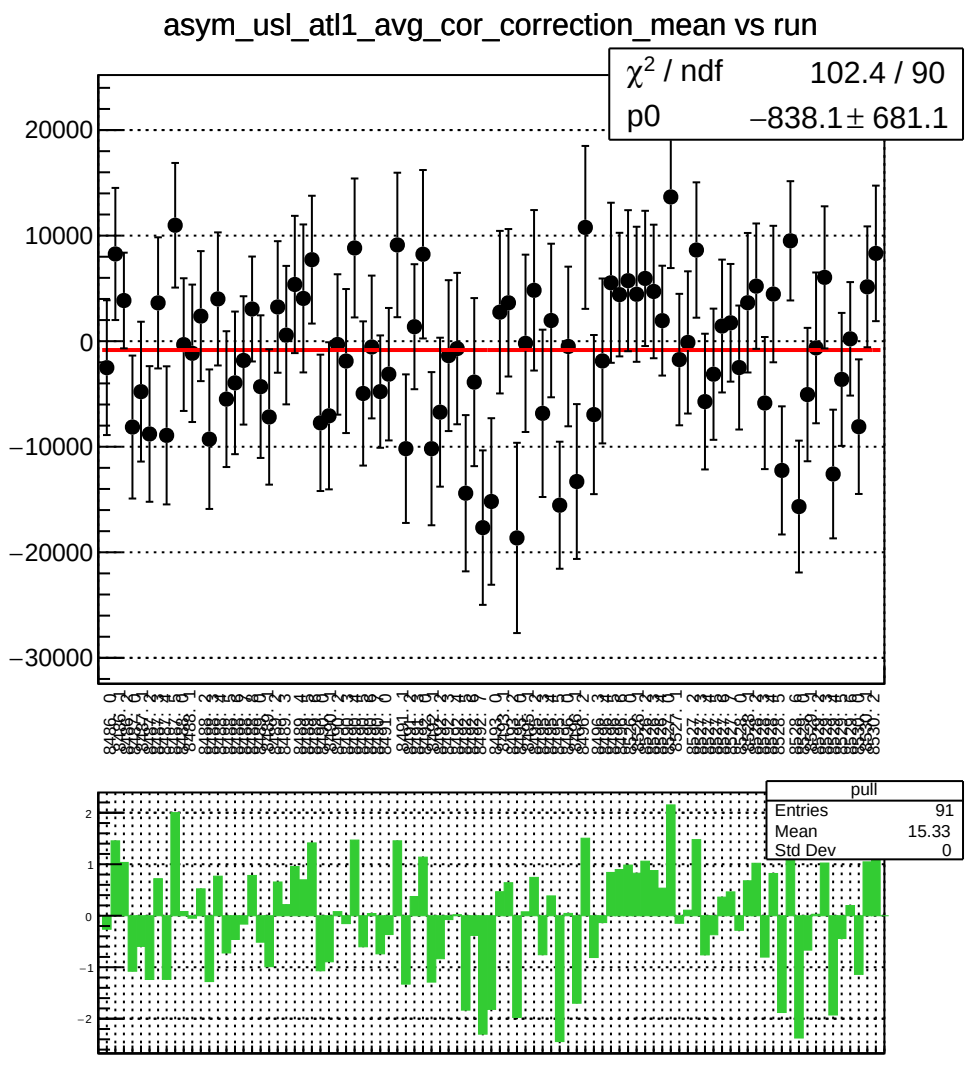

pull1D
Entries 91
Mean −0.0273
Std Dev 1.061
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

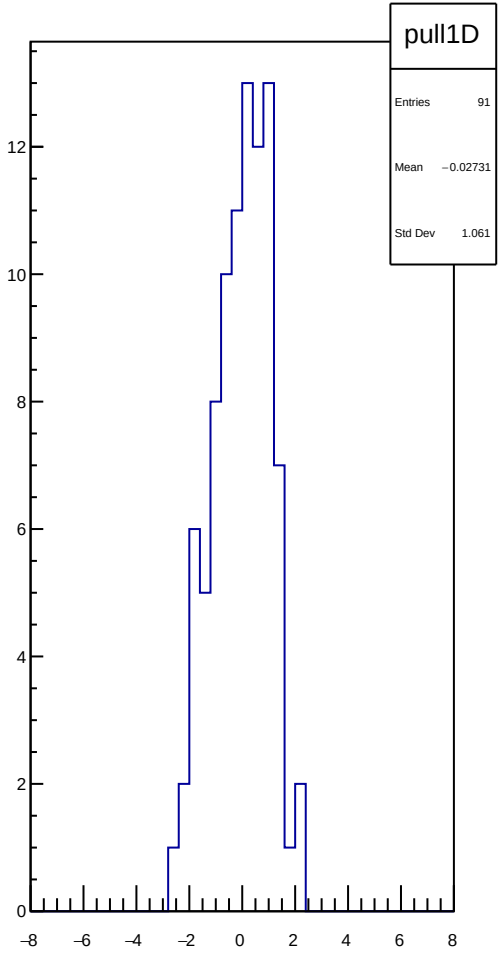

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 1.184e+04 / 90
p0 634.8 ± 0.4816
850
800
750
700
650
600
550

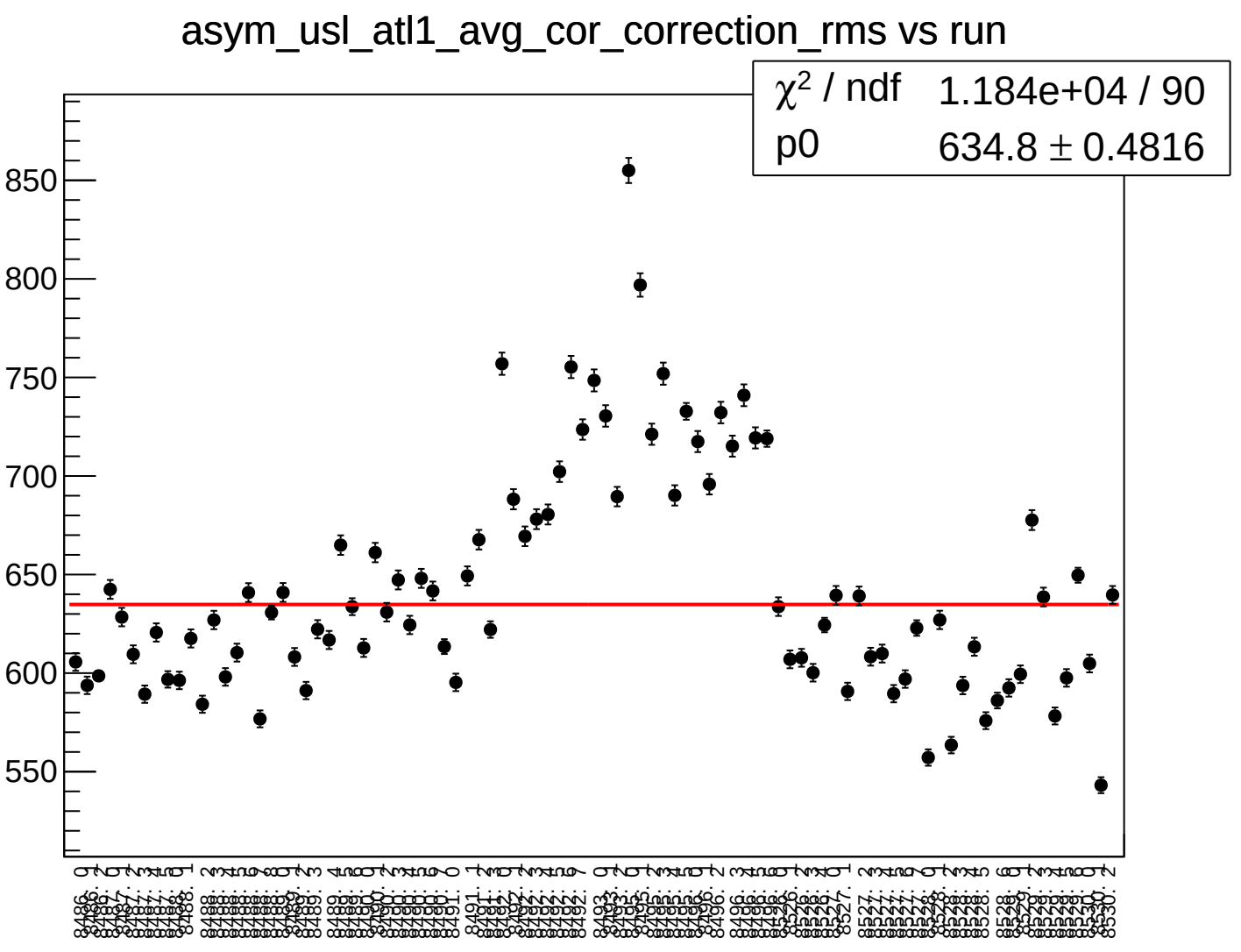

cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 104.6 / 90
p0 −2798 ± 1524
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −178.6
Std Dev 0
3
2
1
0
−1
−2

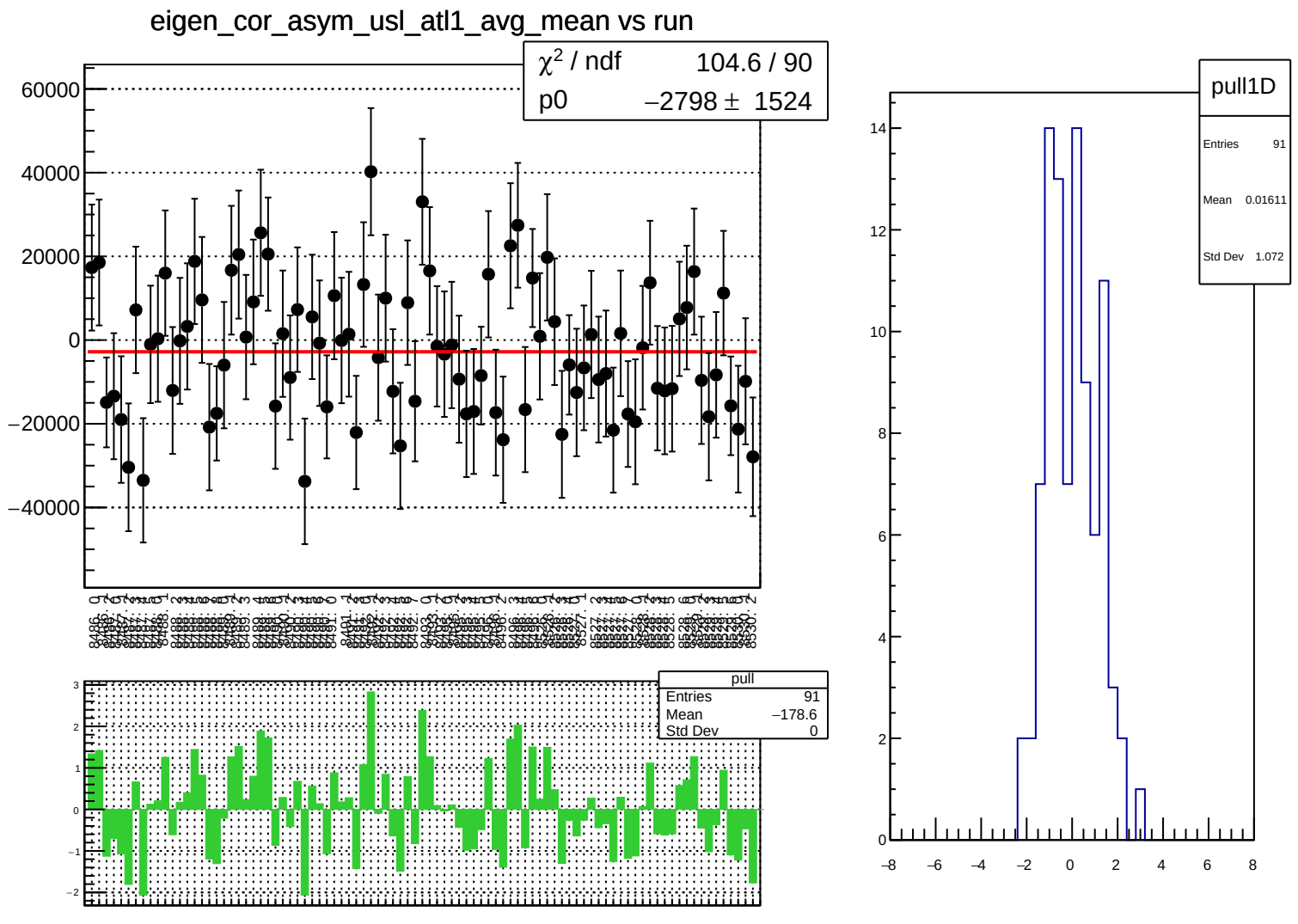

pull1D
Entries 91
Mean 0.01611
Std Dev 1.072
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

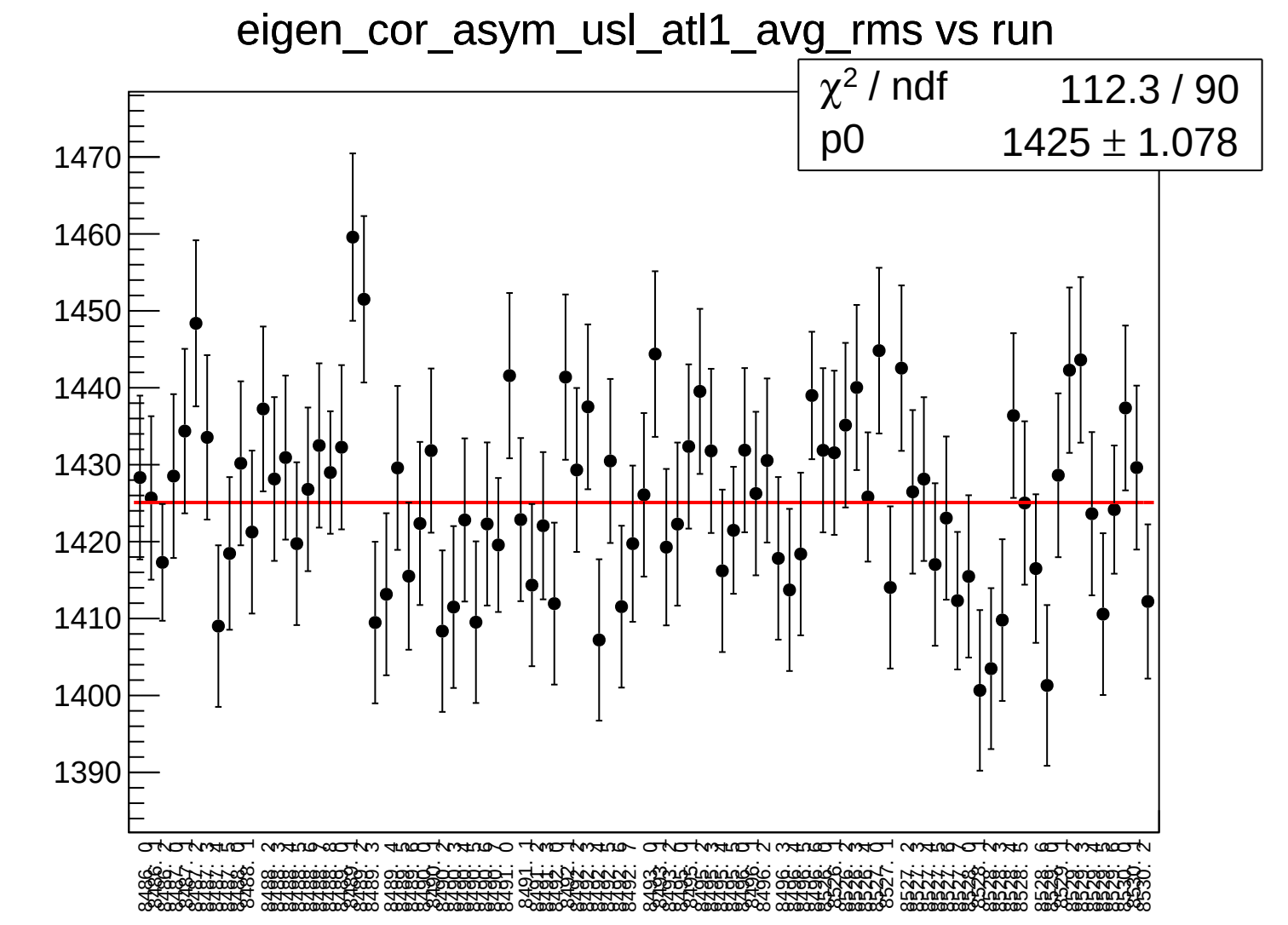

cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 112.3 / 90
p0 1425 ± 1.078
1470
1460
1450
1440
1430
1420
1410
1400
1390

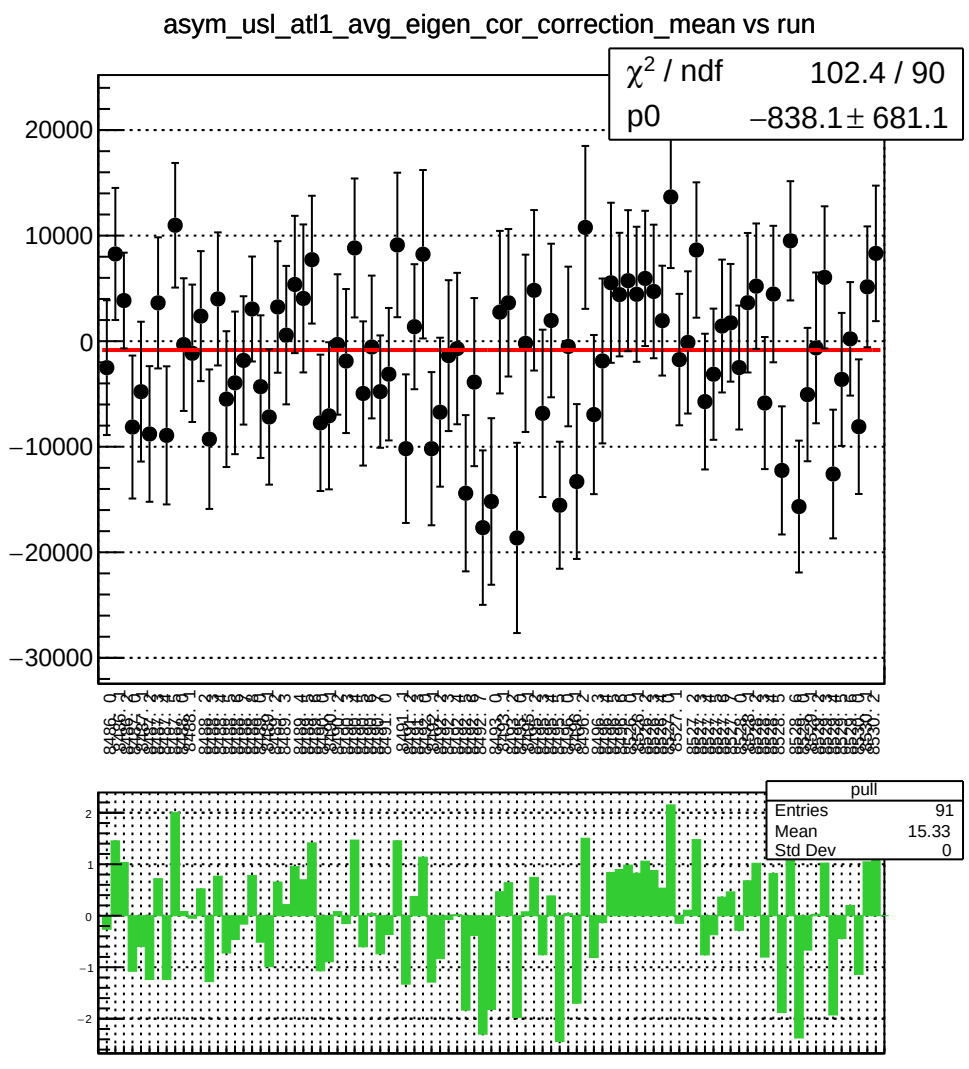

asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 102.4 / 90
p0 −838.1 ± 681.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 15.33
Std Dev 0
2
1
0
−1
−2

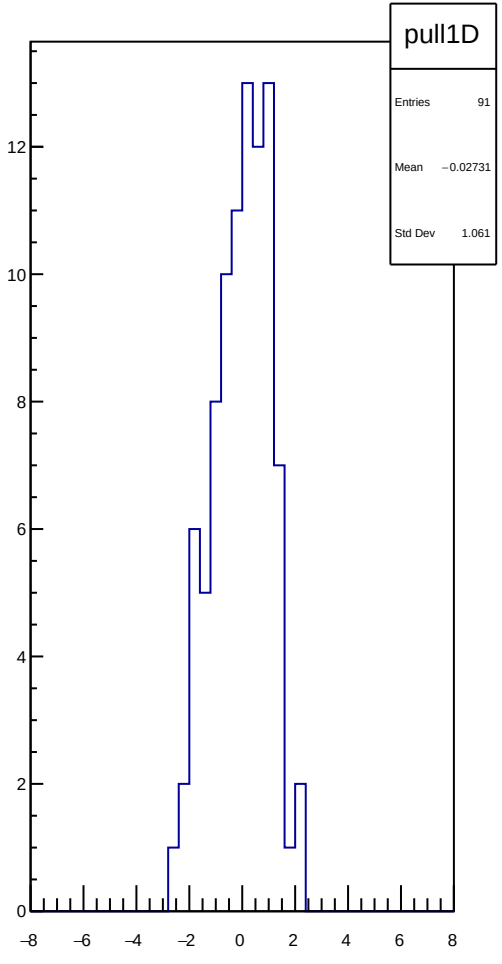

pull1D
Entries 91
Mean −0.02731
Std Dev 1.061
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 1.184e+04 / 90
p0 634.8 ± 0.4816
850
800
750
700
650
600
550


eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 104.6 / 90
p0 −2798 ± 1524
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −178.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.01611
Std Dev 1.072
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 112.3 / 90
p0 1425 ± 1.078
1470
1460
1450
1440
1430
1420
1410
1400
1390


asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 102.4 / 90
p0 −838.1 ± 681.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 15.33
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 91
Mean −0.02731
Std Dev 1.061
12
10
8
6
4
2
0
−8
−6
−4
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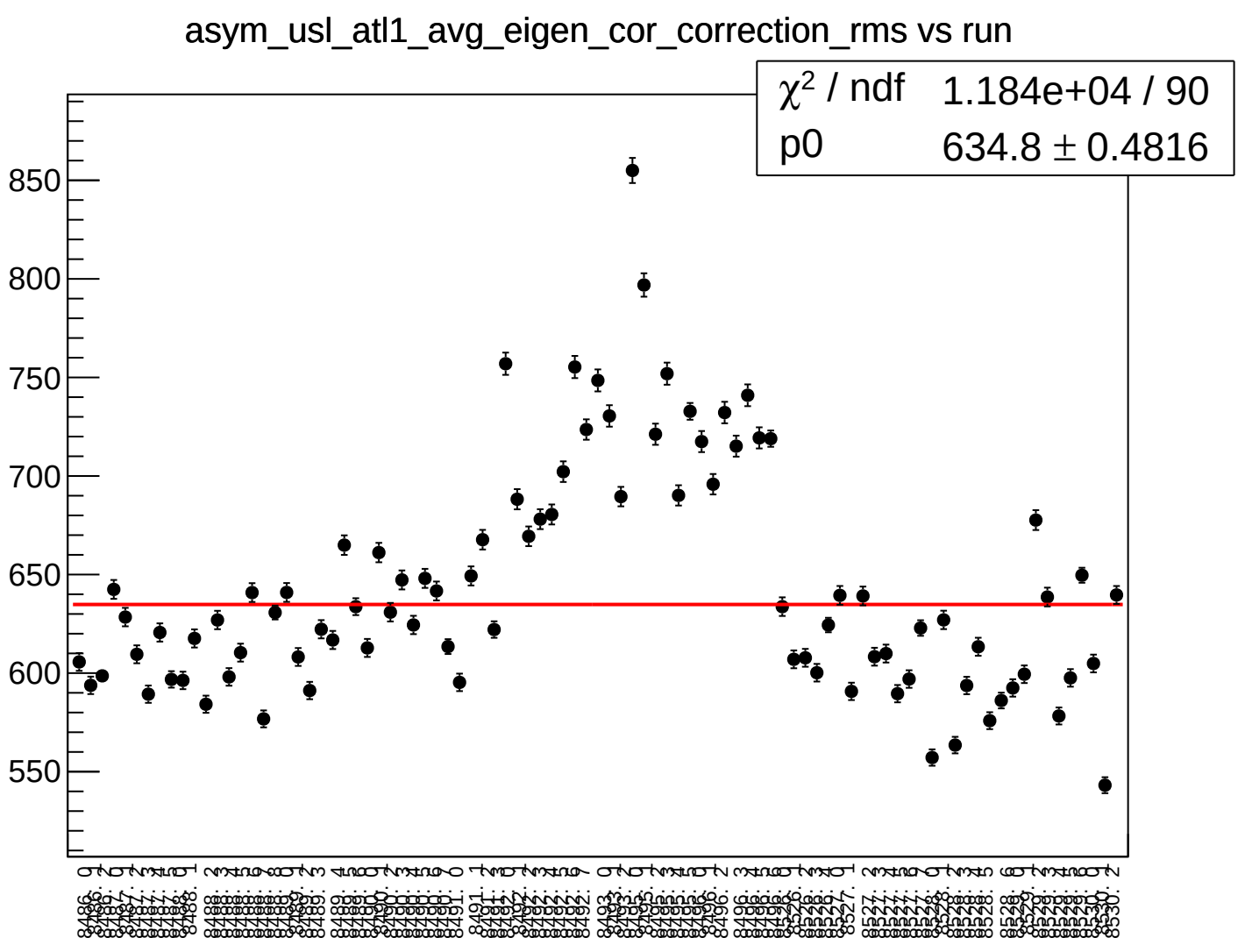
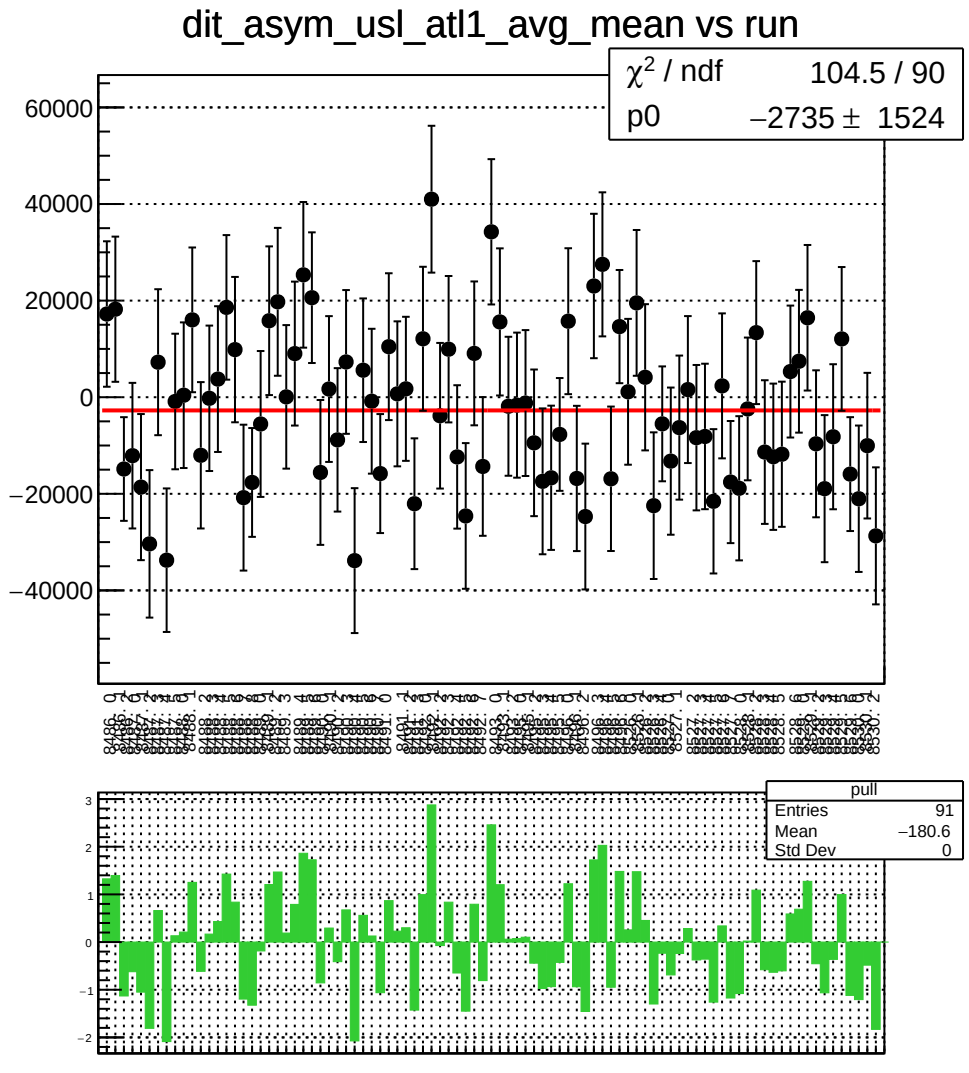
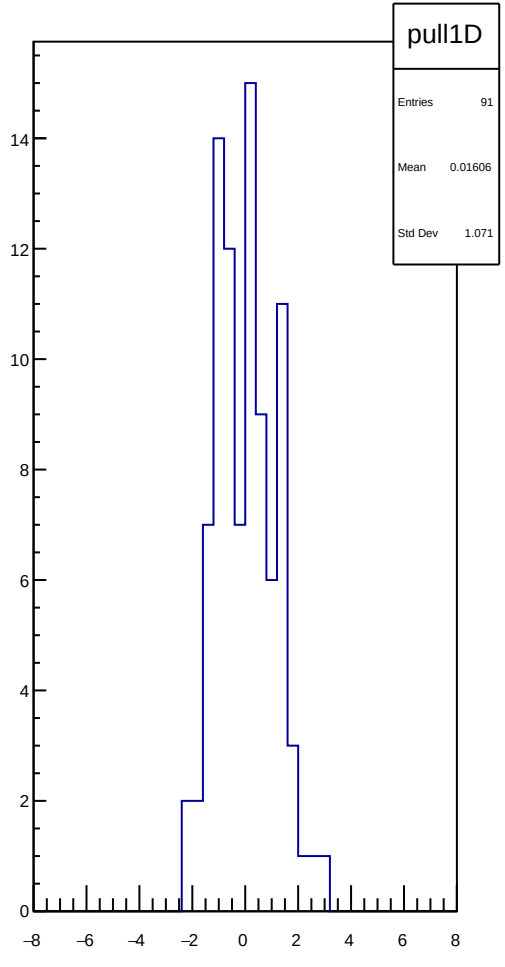
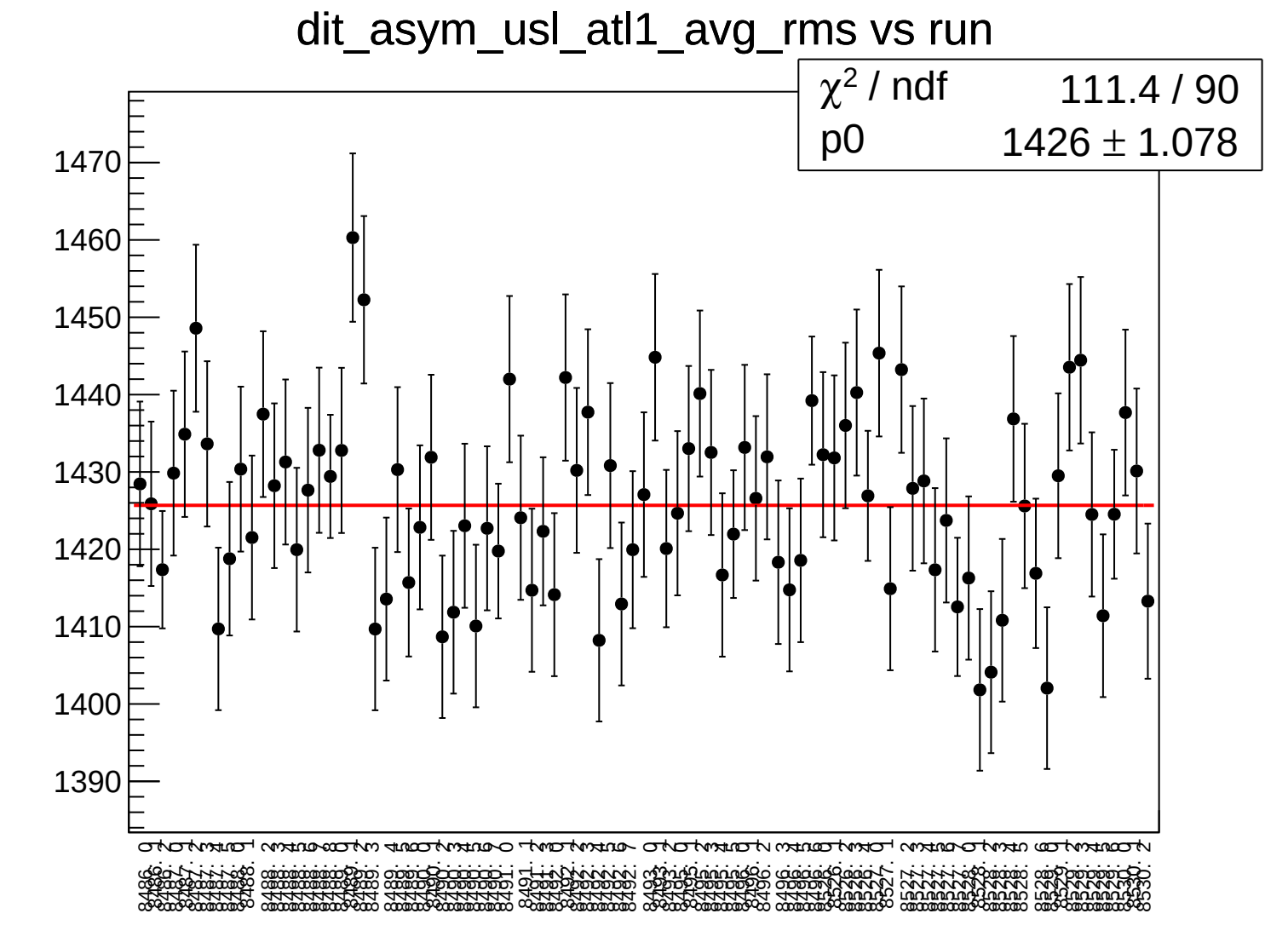
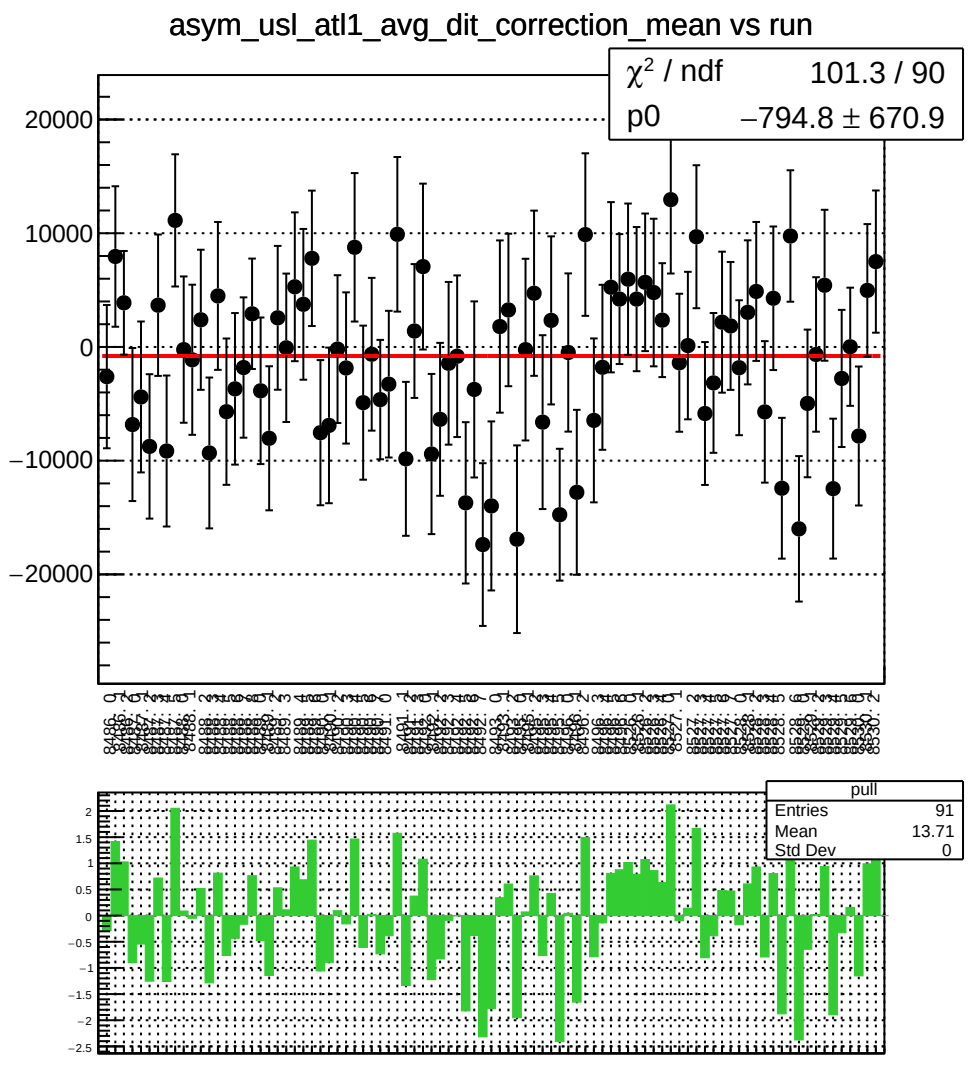
2
4
6
8

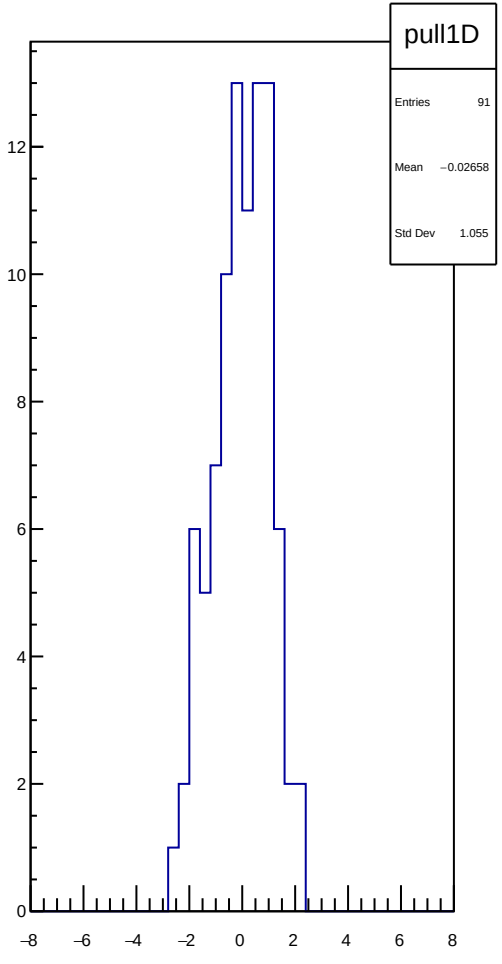

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.184e+04 / 90
p0 634.8 ± 0.4816
850
800
750
700
650
600
550

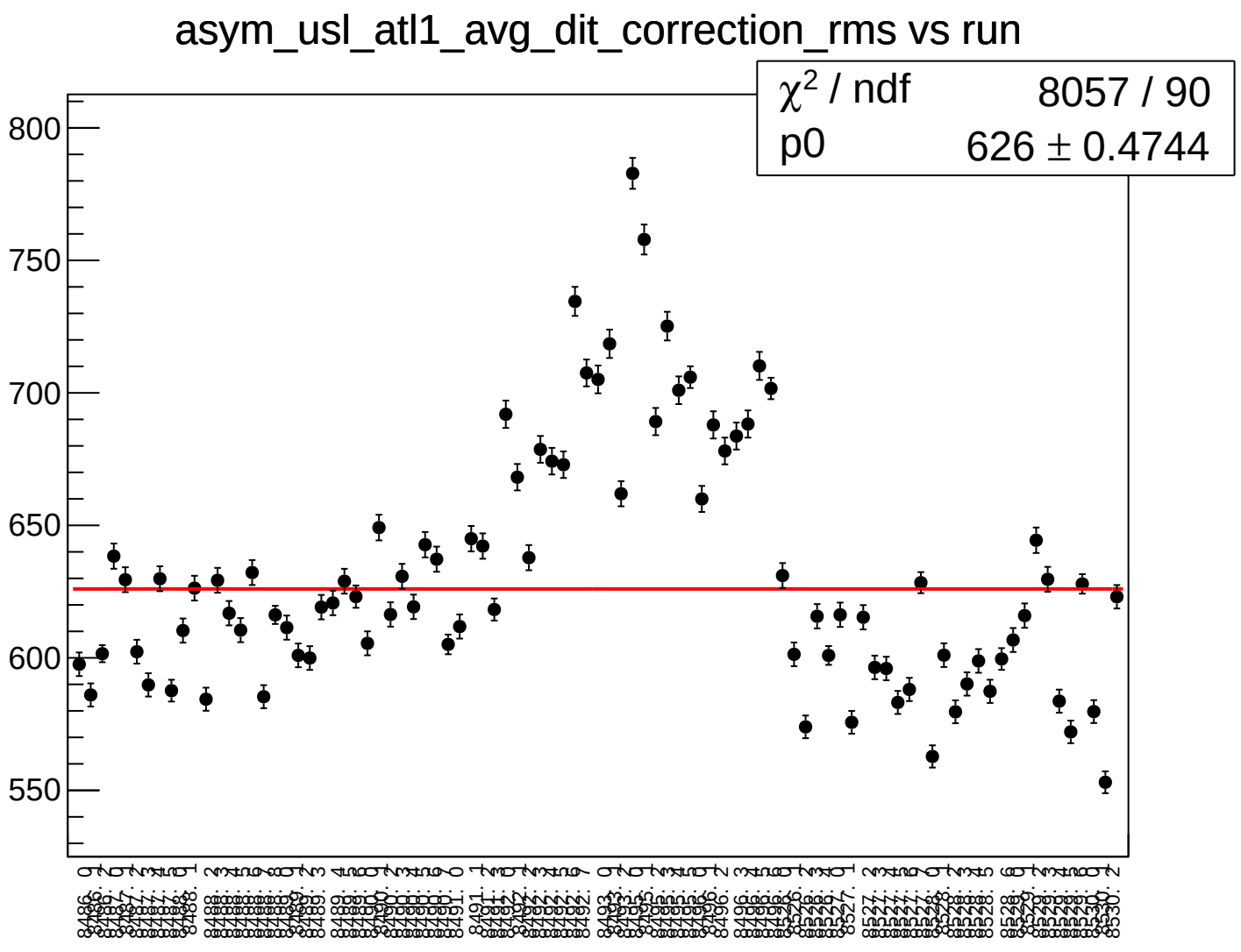

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 104.5 / 90
p0 −2735 ± 1524
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −180.6
Std Dev 0
3
2
1
0
−1
−2

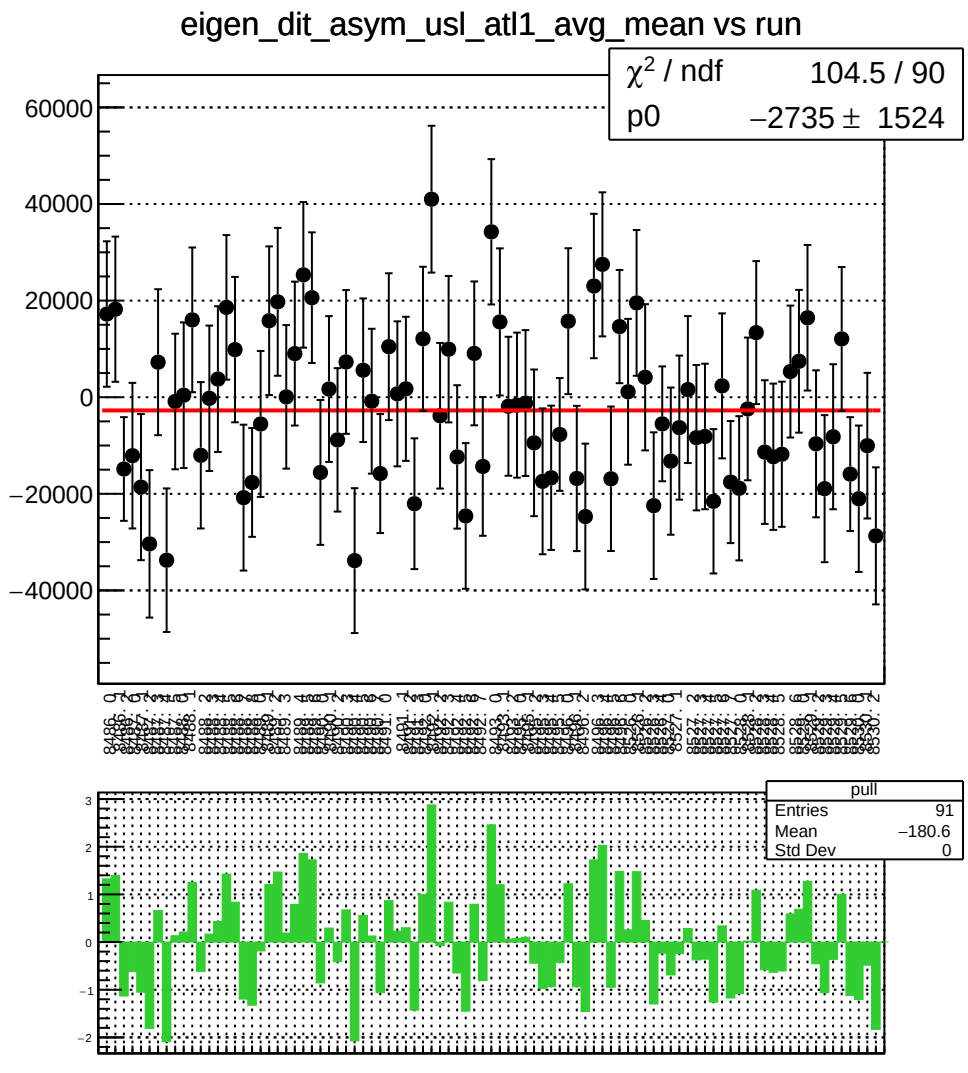

pull1D
Entries 91
Mean 0.01606
Std Dev 1.071
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

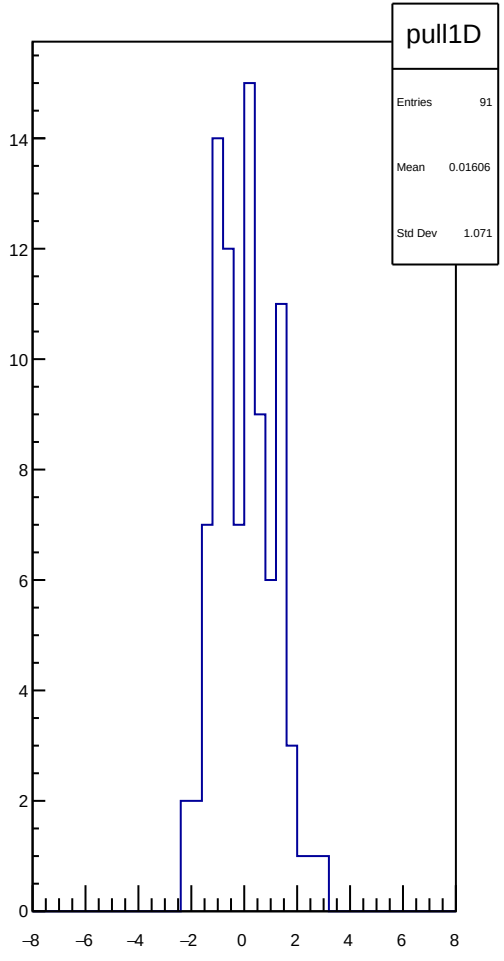

dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 111.4 / 90
p0 1426 ± 1.078
1470
1460
1450
1440
1430
1420
1410
1400
1390

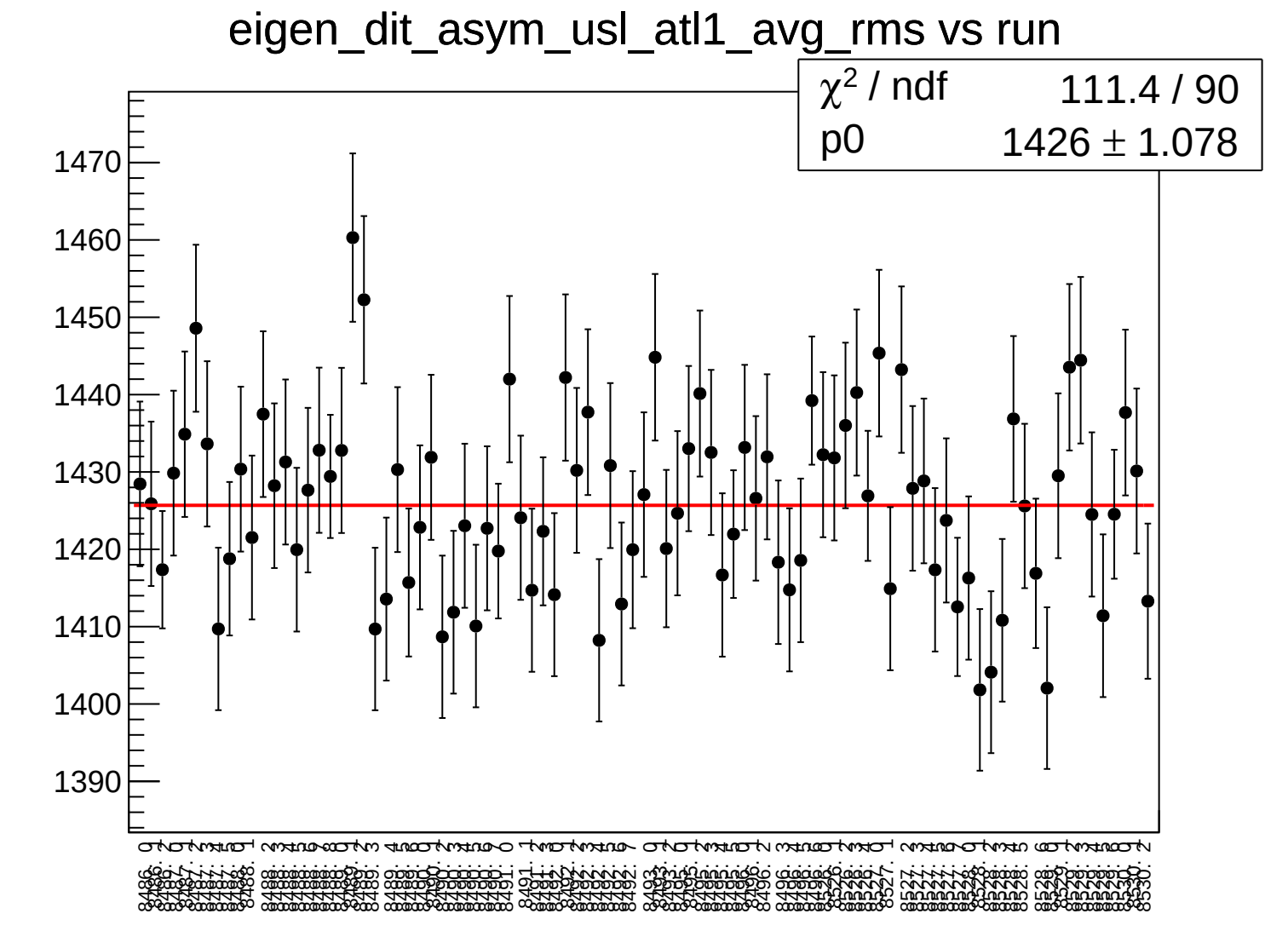

asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 101.3 / 90
p0 −794.8 ± 670.9
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 13.71
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

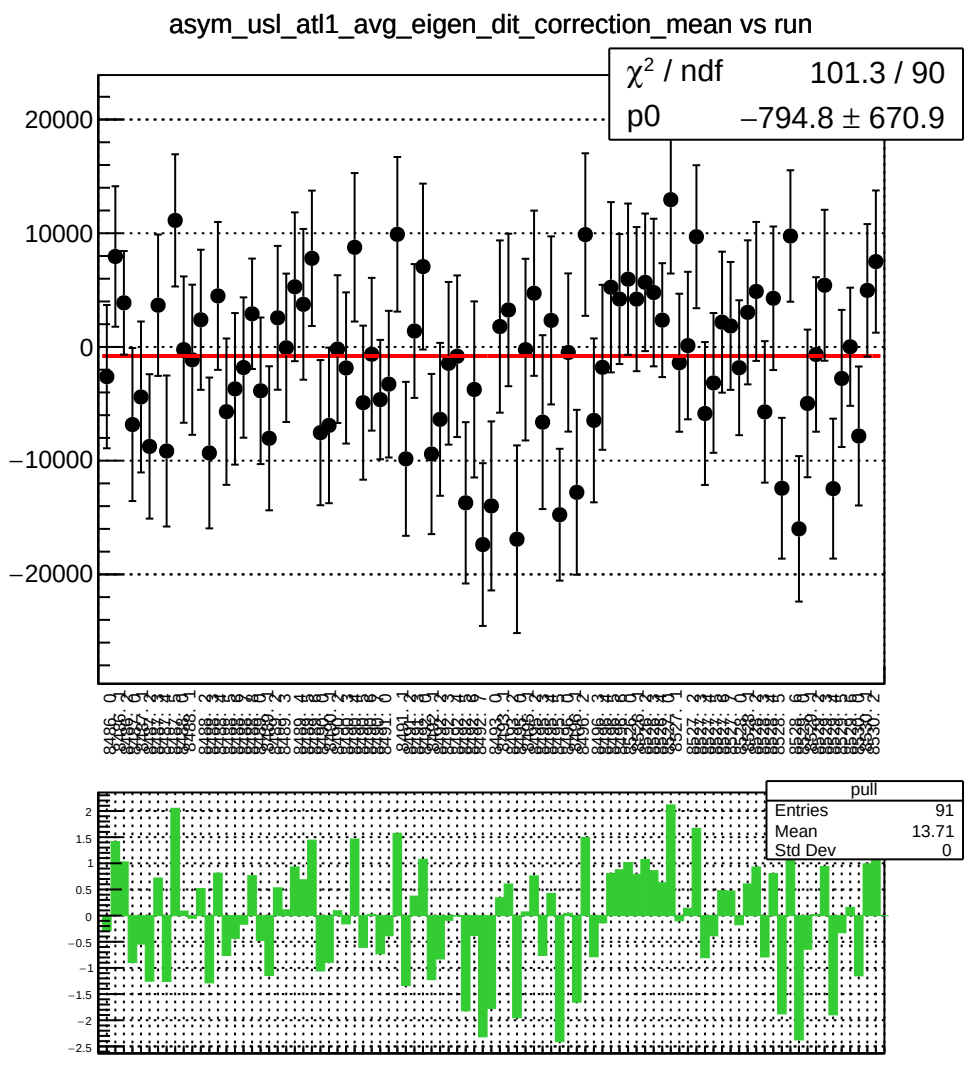

pull1D
Entries 91
Mean −0.02658
Std Dev 1.055
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

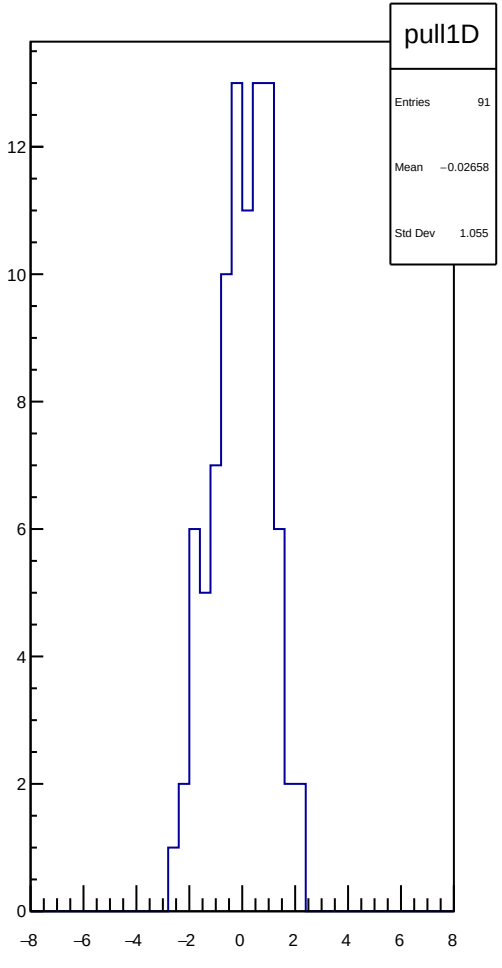

asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 8057 / 90
p0 626 ± 0.4744
800
750
700
650
600
550

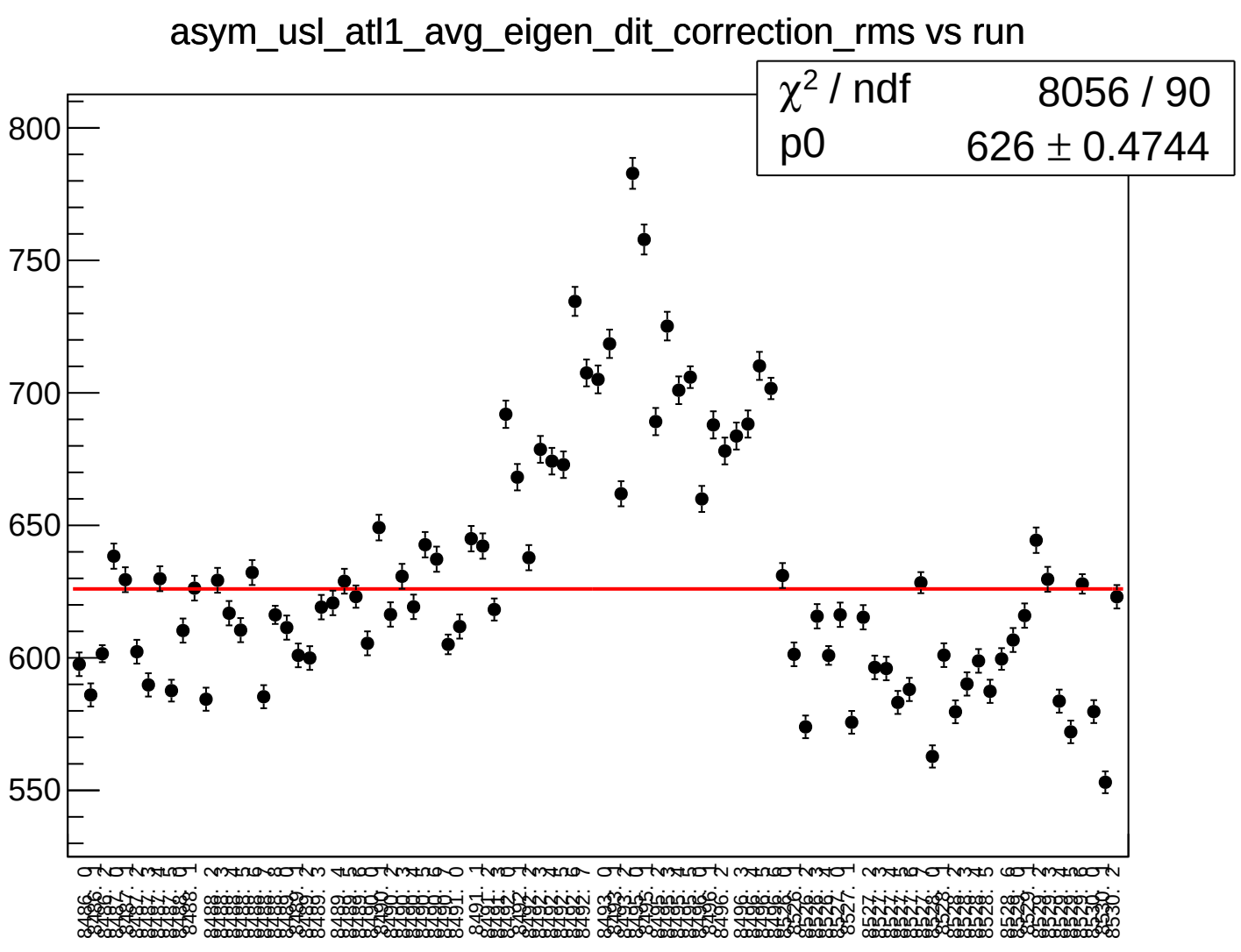

eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 104.5 / 90
p0 −2735 ± 1524
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −180.6
Std Dev 0
3
2
1
0
−1
−2

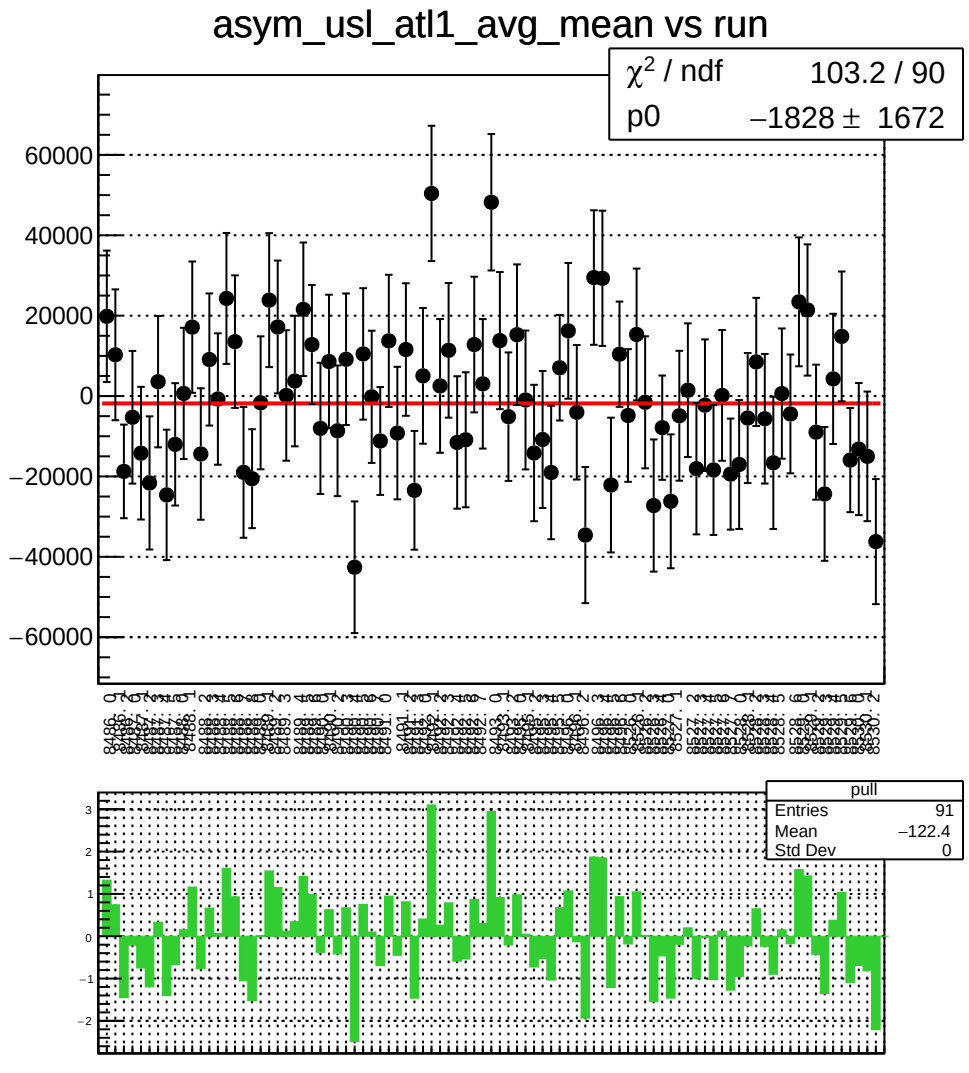

pull1D
Entries 91
Mean 0.01606
Std Dev 1.071
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

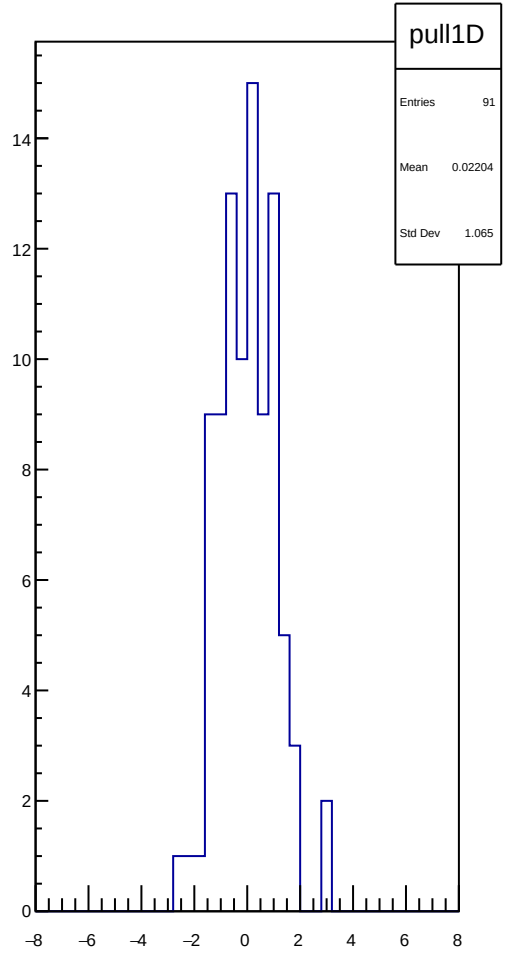

eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 111.4 / 90
p0 1426 ± 1.078
1470
1460
1450
1440
1430
1420
1410
1400
1390

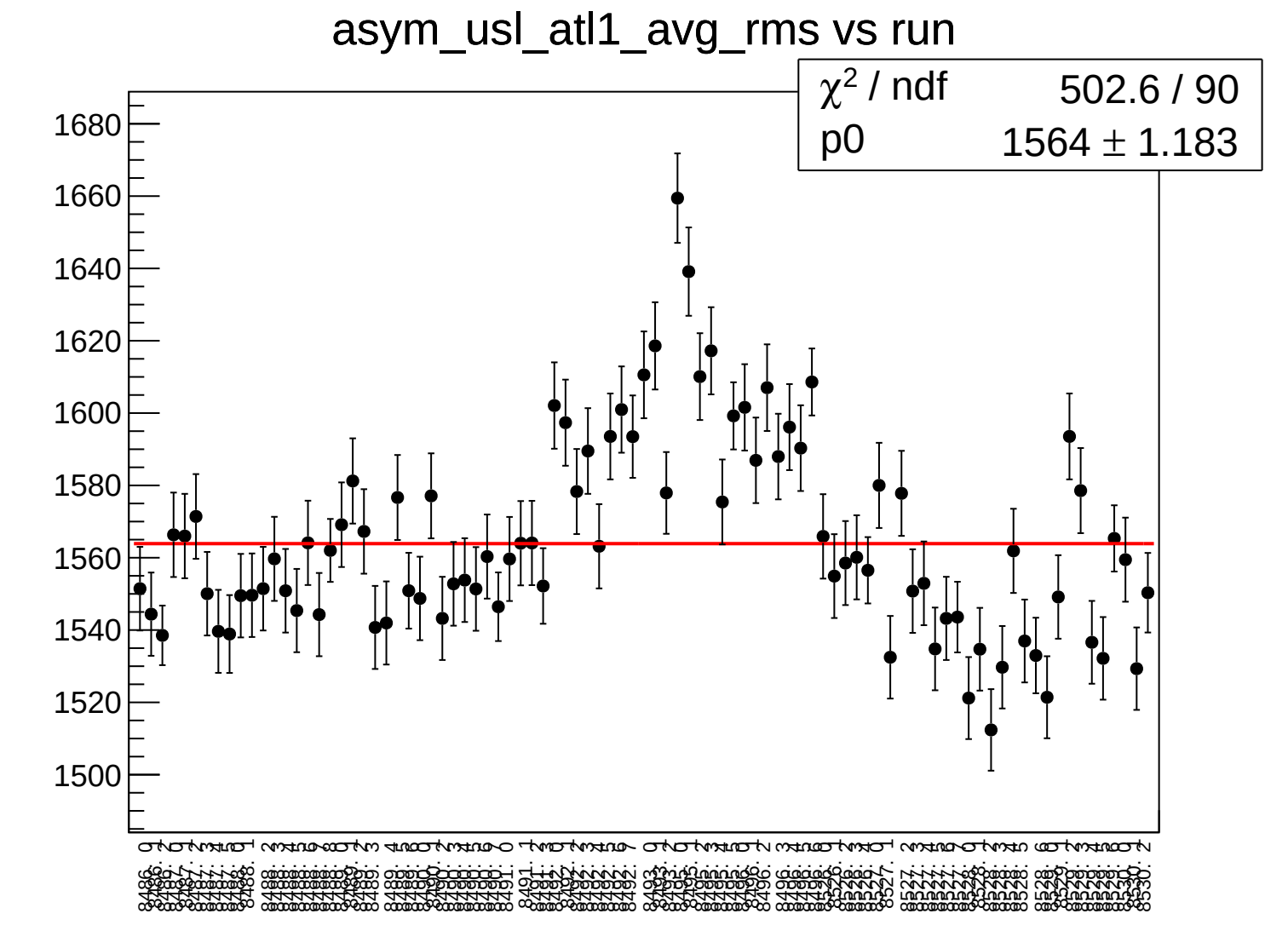

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 101.3 / 90
p0 −794.8 ± 670.9
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 13.71
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

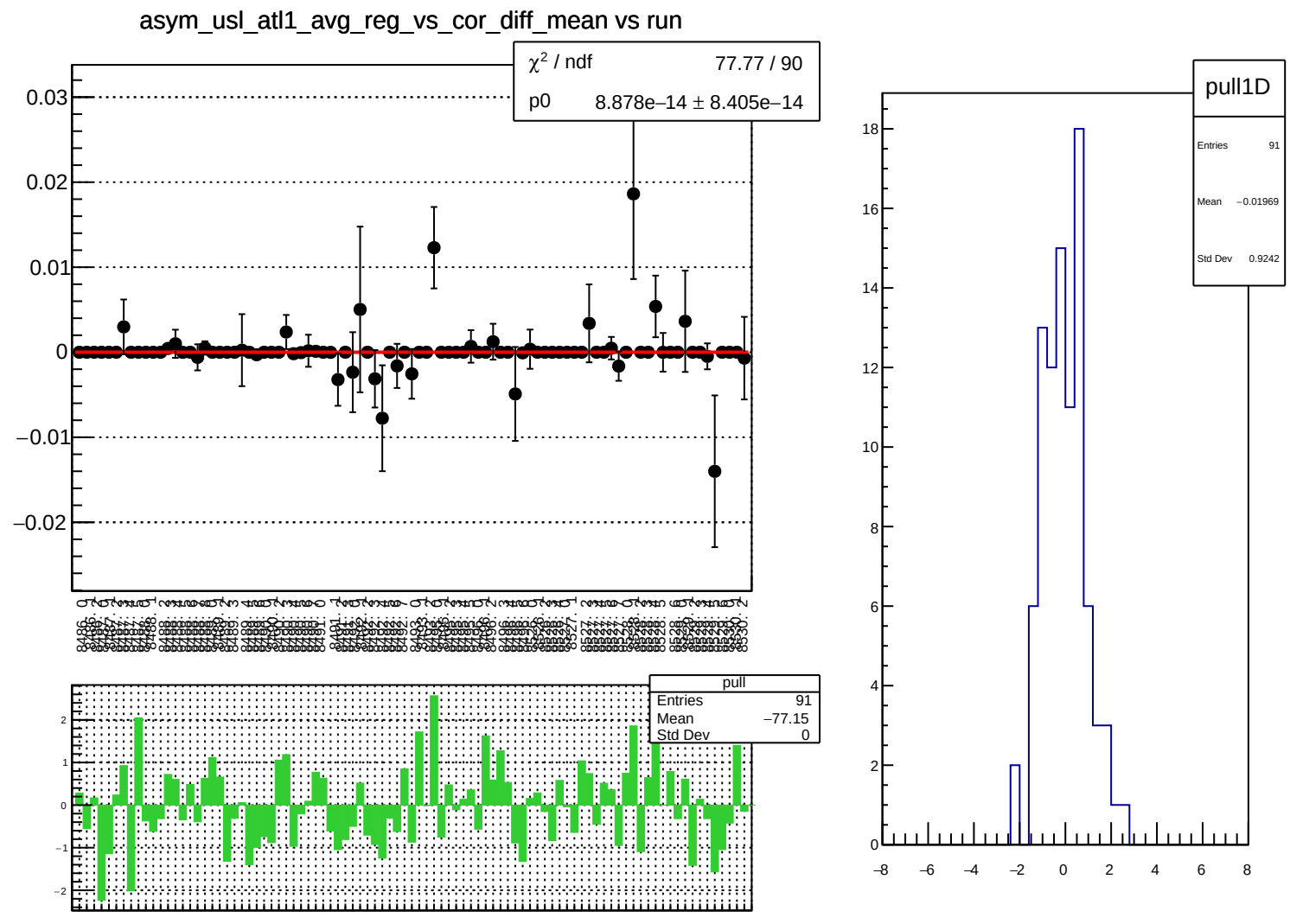

pull1D
Entries 91
Mean −0.02658
Std Dev 1.055
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

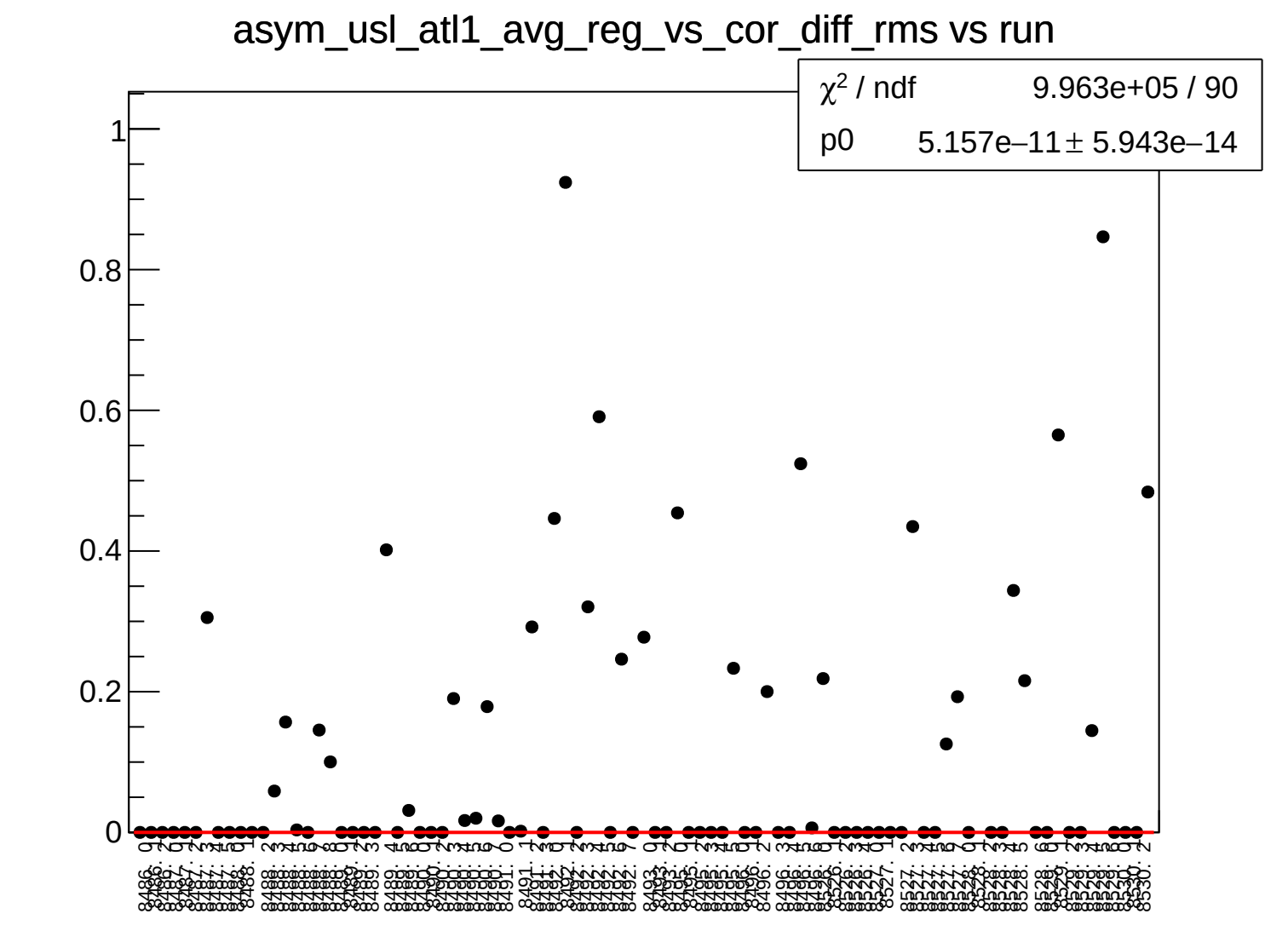

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 8056 / 90
p0 626 ± 0.4744
800
750
700
650
600
550

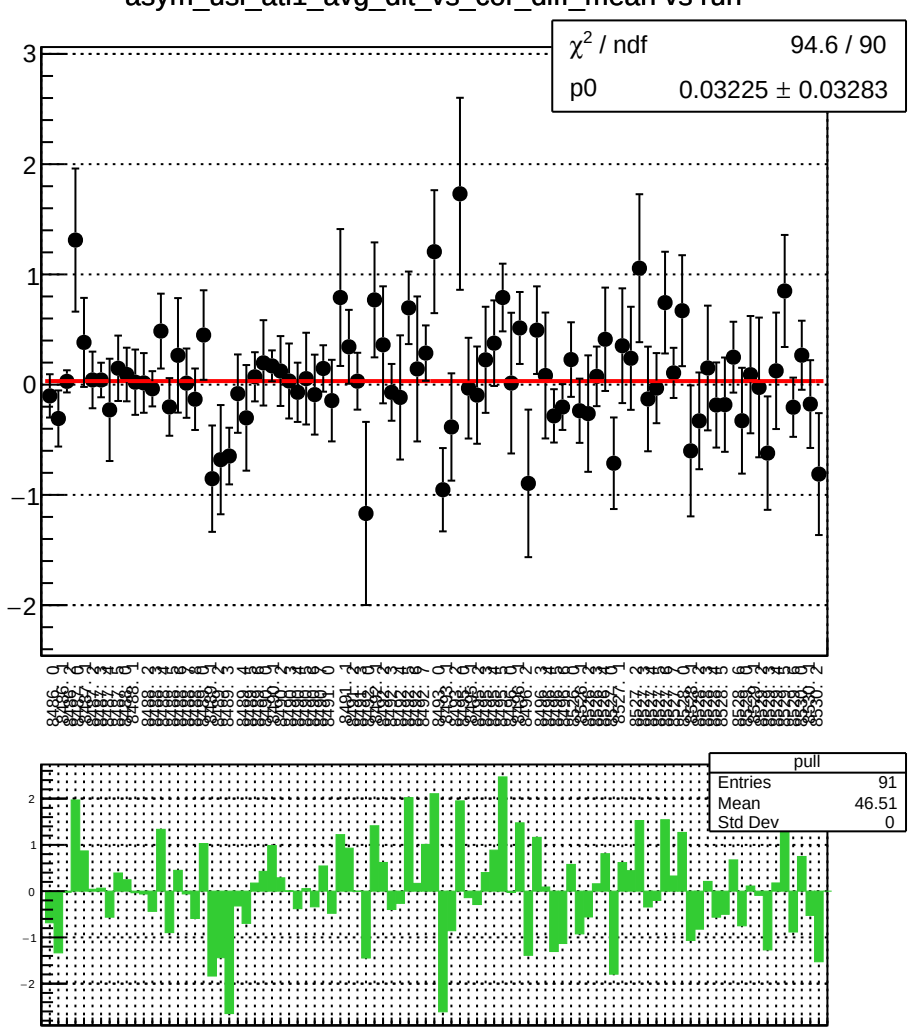

asym_usl_atl1_avg_mean vs run
χ² / ndf 103.2 / 90
p0 −1828 ± 1672
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −122.4
Std Dev 0
3
2
1
0
−1
−2

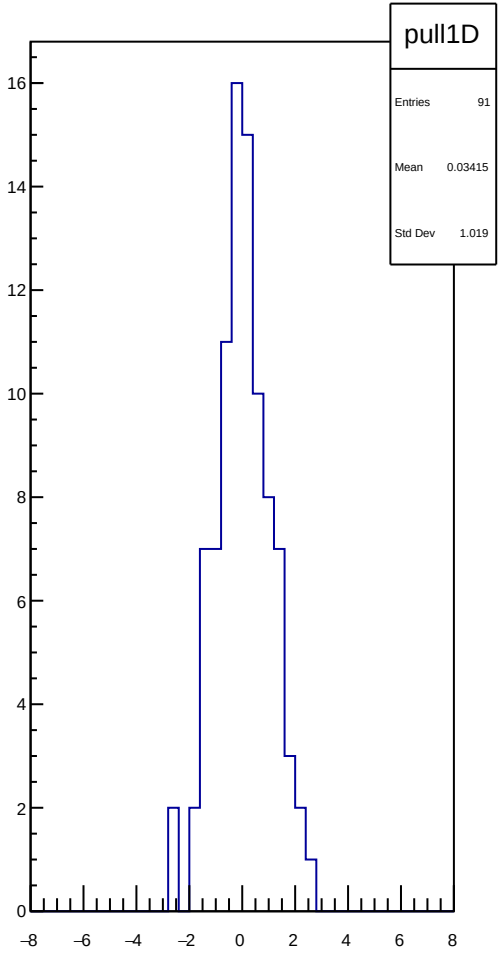

pull1D
Entries 91
Mean 0.02204
Std Dev 1.065
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

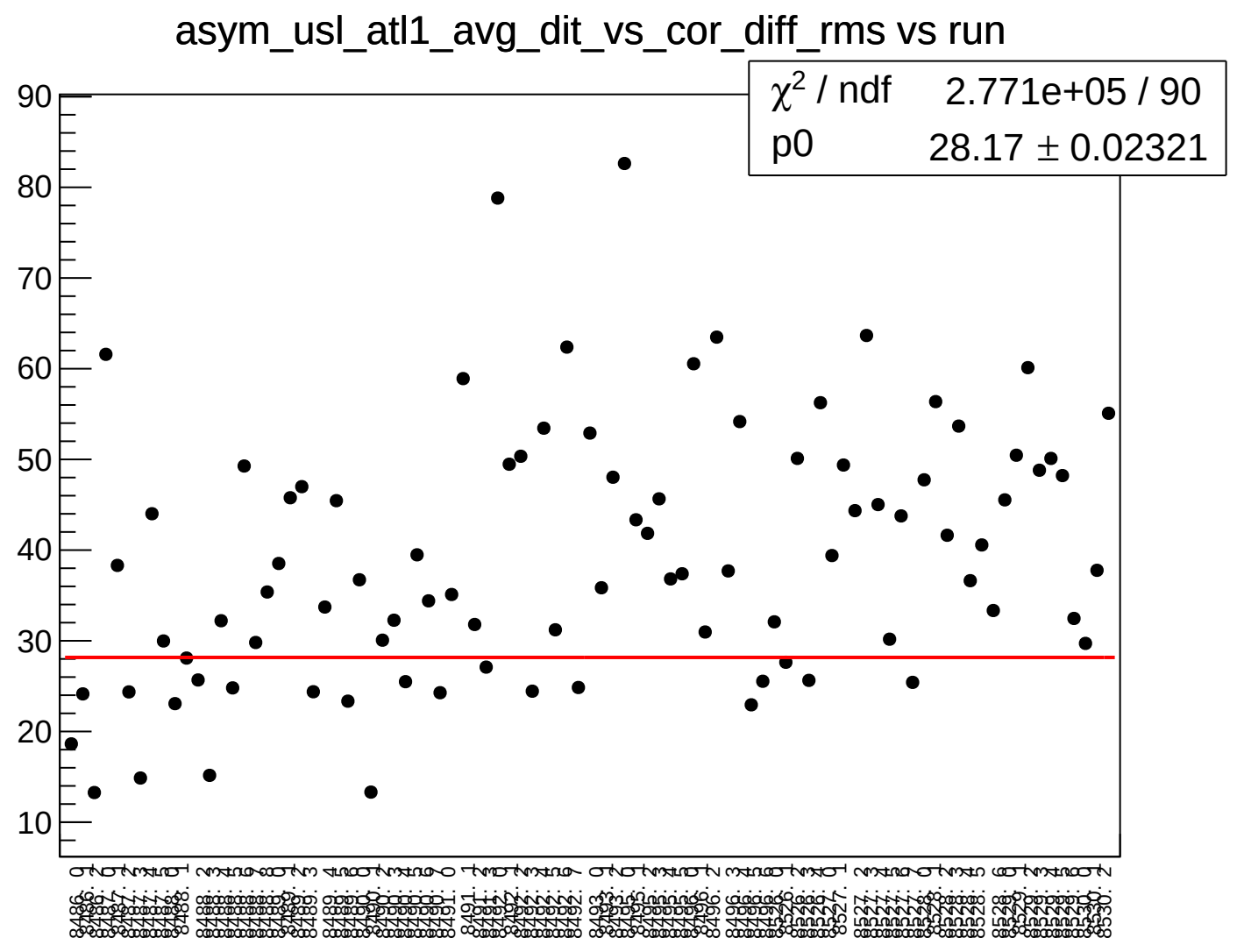

asym_usl_atl1_avg_rms vs run
χ² / ndf 502.6 / 90
p0 1564 ± 1.183
1680
1660
1640
1620
1600
1580
1560
1540
1520
1500

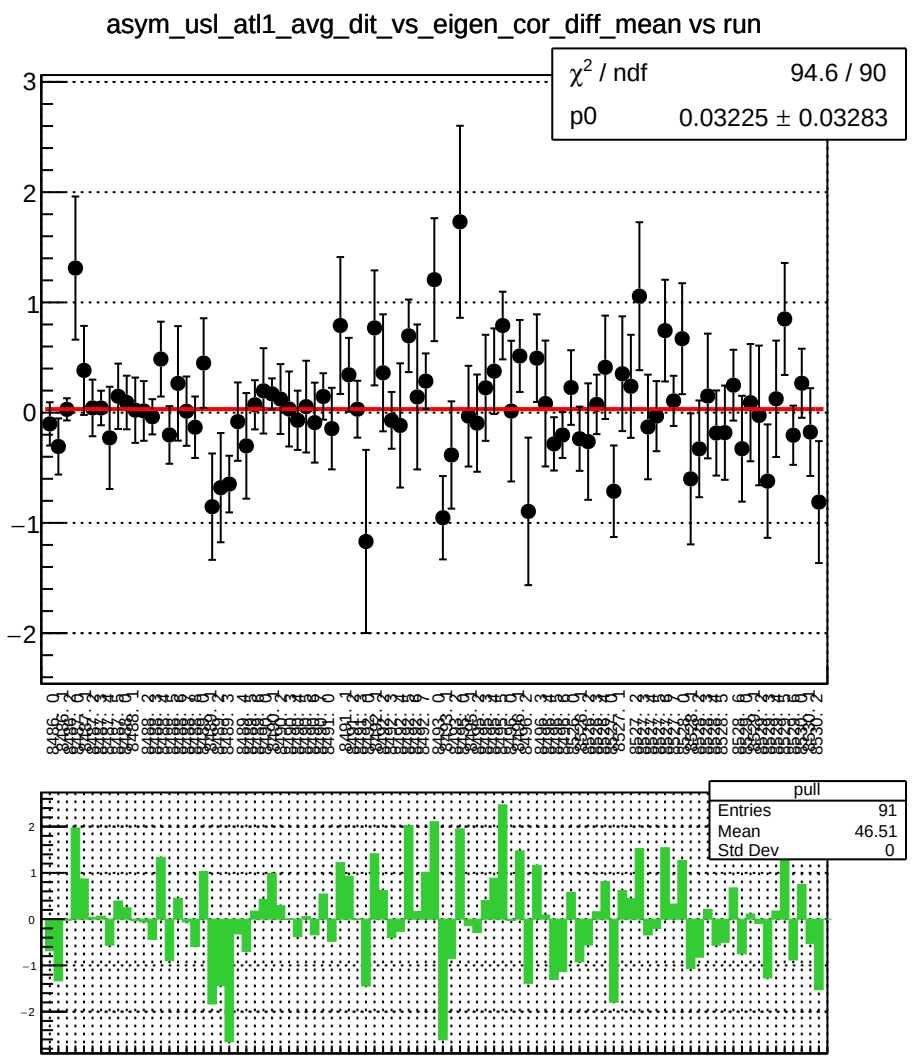

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 77.77 / 90
p0 8.878e−14 ± 8.405e−14
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 91
Mean −77.15
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.01969
Std Dev 0.9242
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

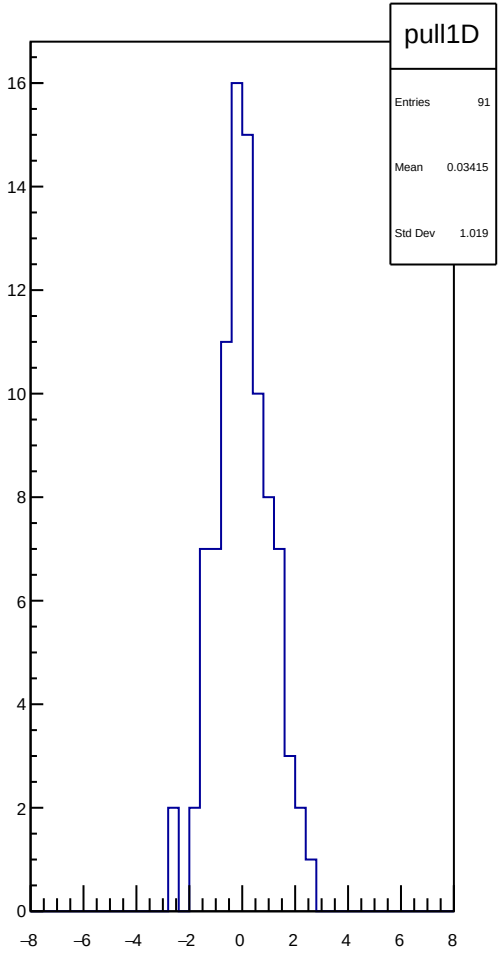

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.963e+05 / 90
p0 5.157e−11 ± 5.943e−14
1
0.8
0.6
0.4
0.2
0

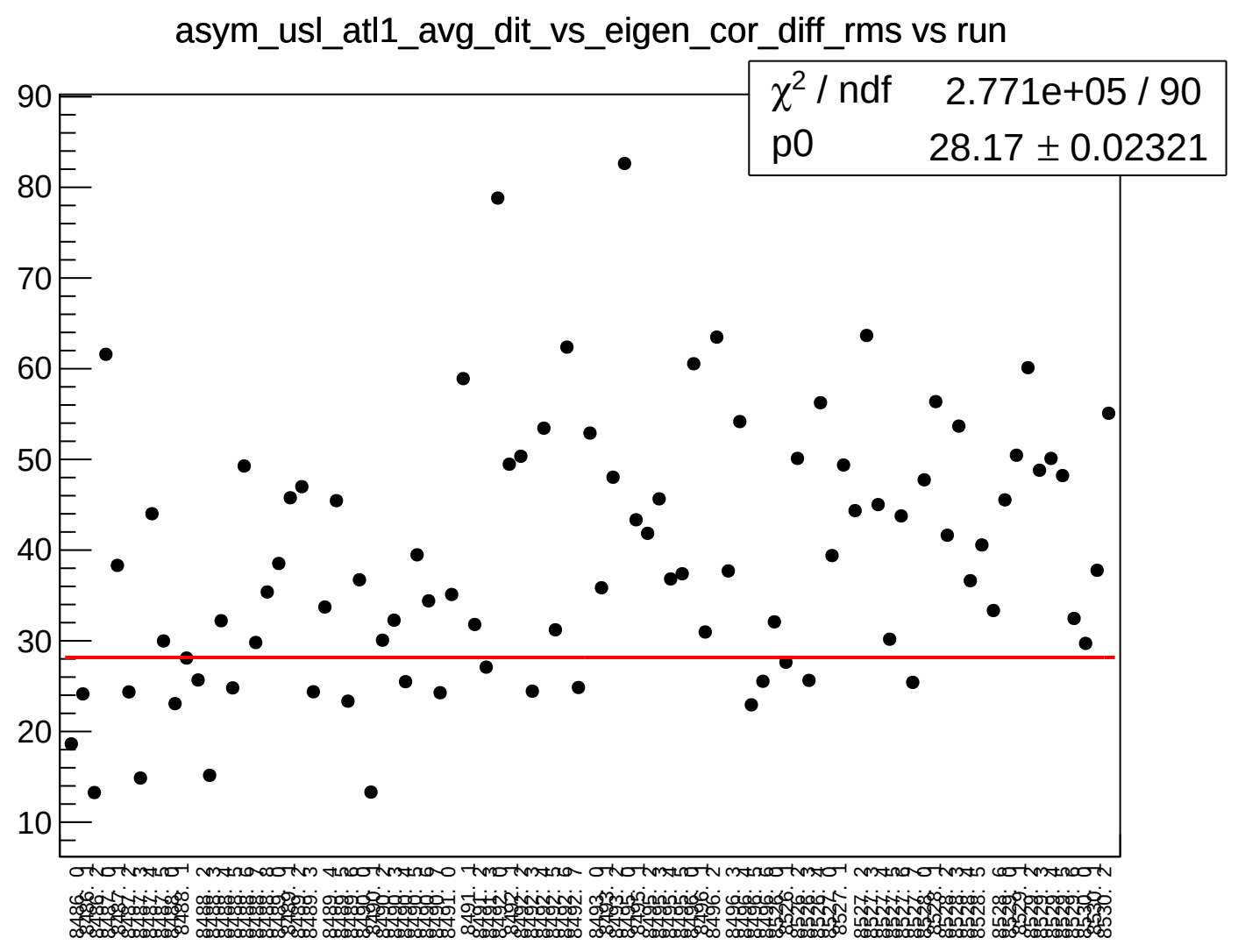

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 94.6 / 90
p0 0.03225 ± 0.03283
pull
Entries 91
Mean 46.51
Std Dev 0

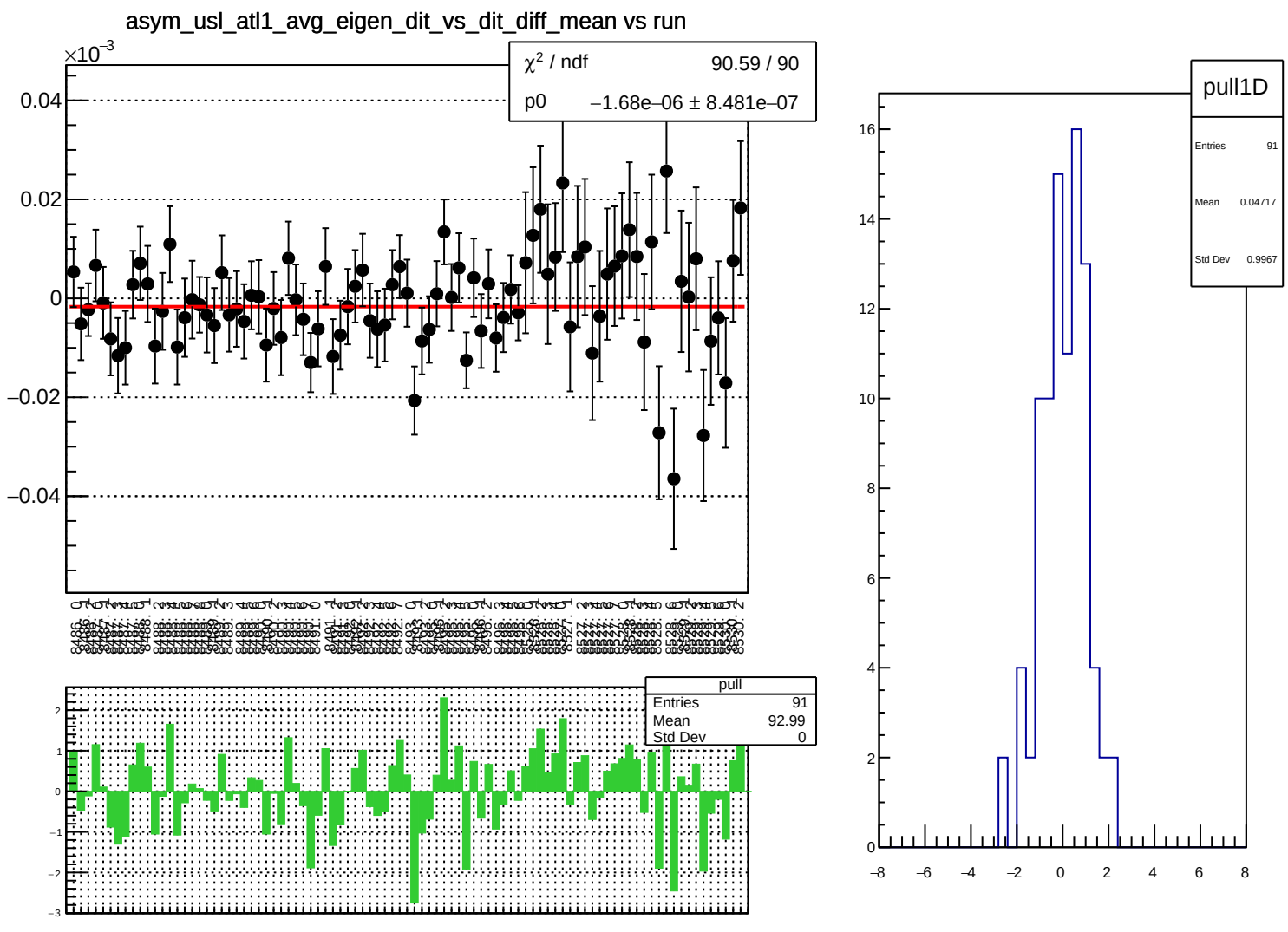

pull1D
Entries 91
Mean 0.03415
Std Dev 1.019

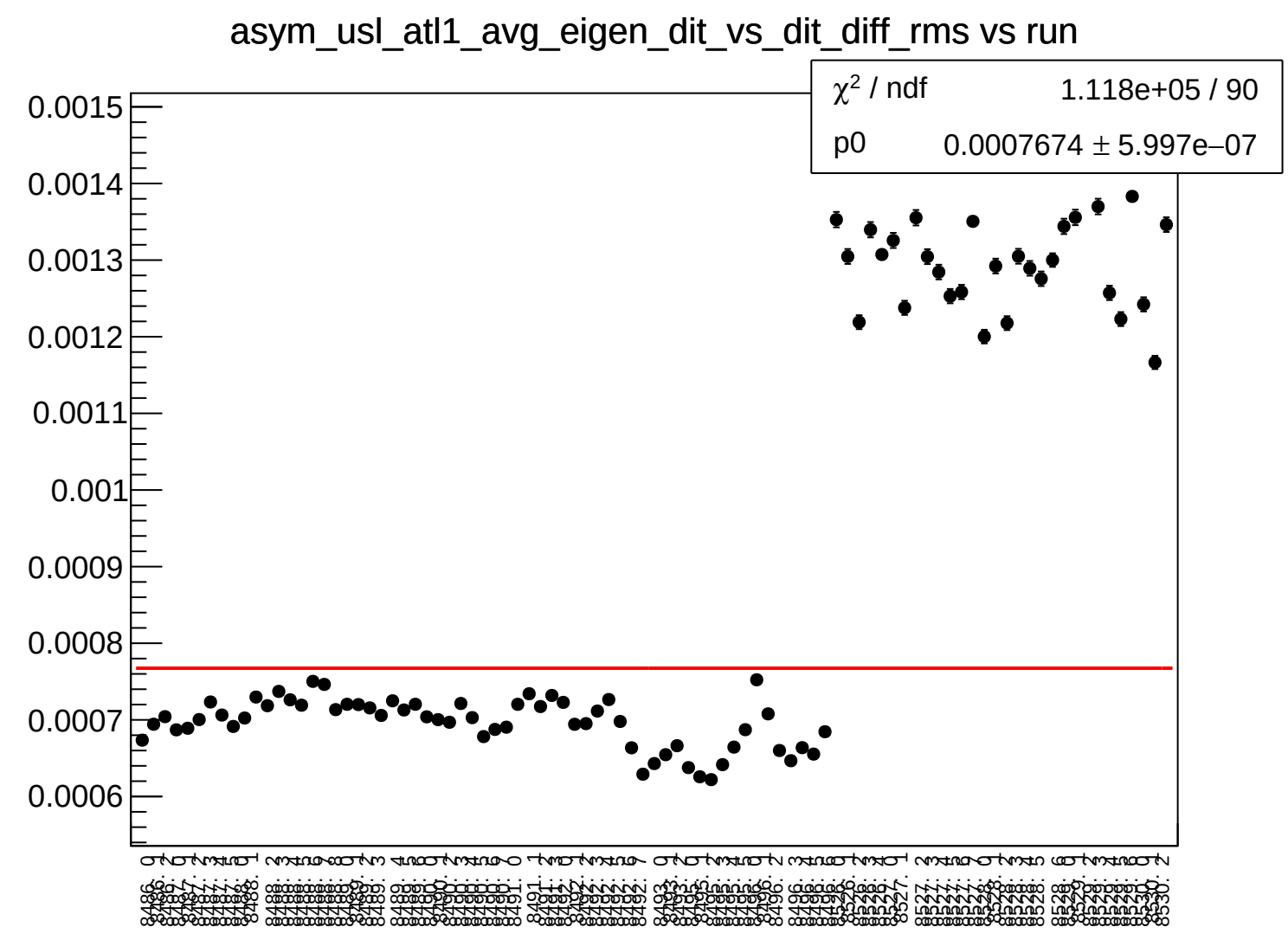

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.771e+05 / 90
p0 28.17 ± 0.02321
90
80
70
60
50
40
30
20
10

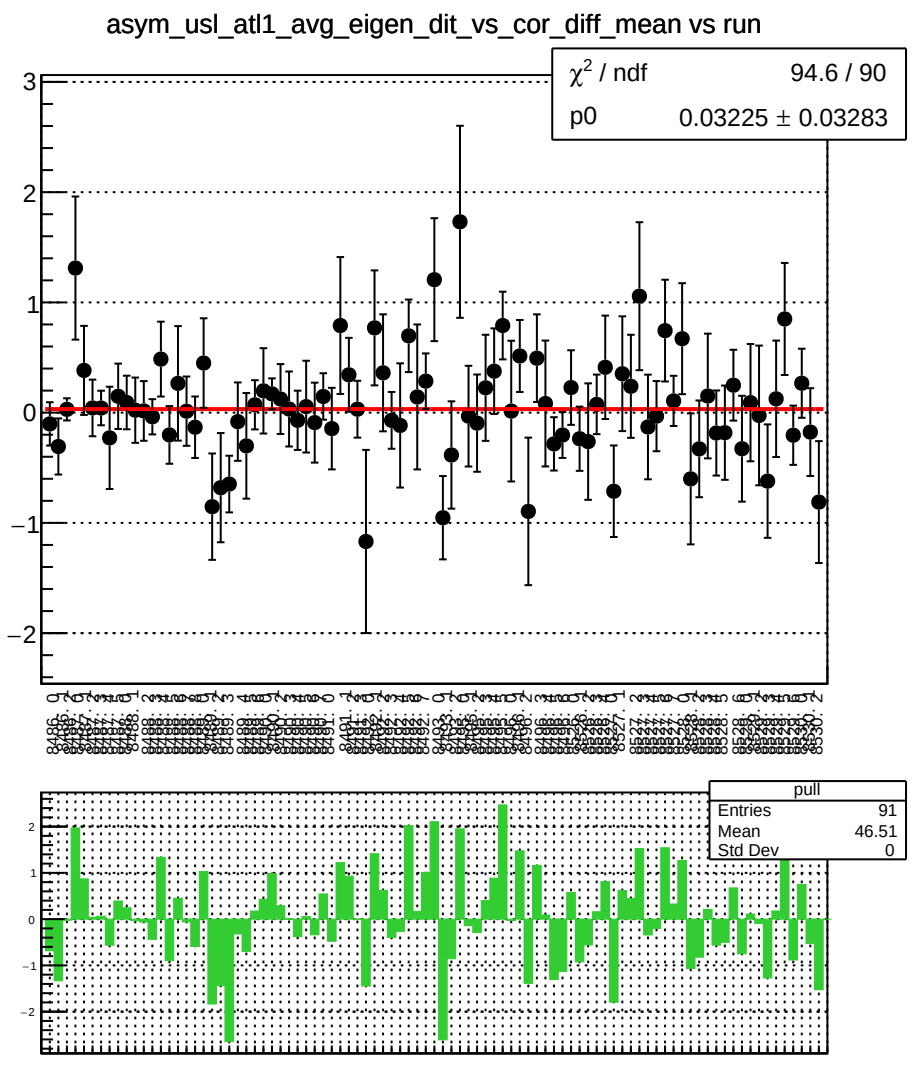

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.6 / 90
p0 0.03225 ± 0.03283
pull
Entries 91
Mean 46.51
Std Dev 0

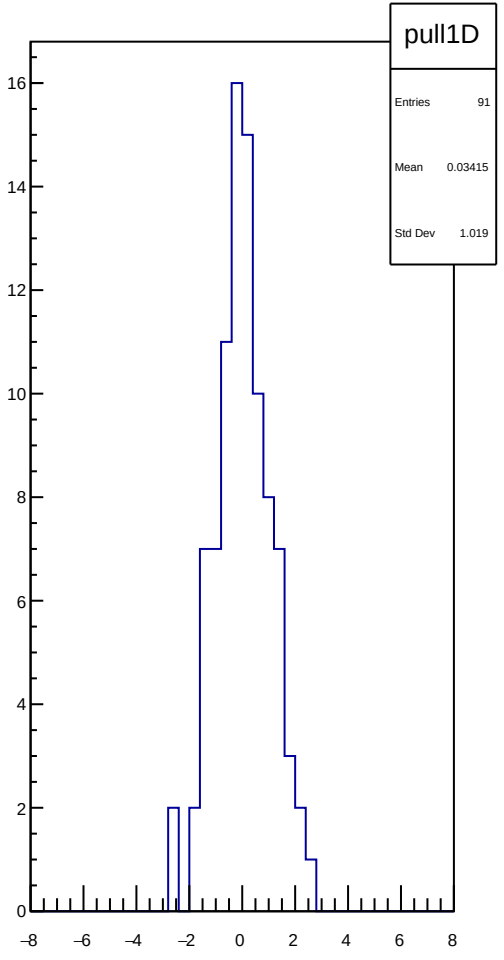

pull1D
Entries 91
Mean 0.03415
Std Dev 1.019

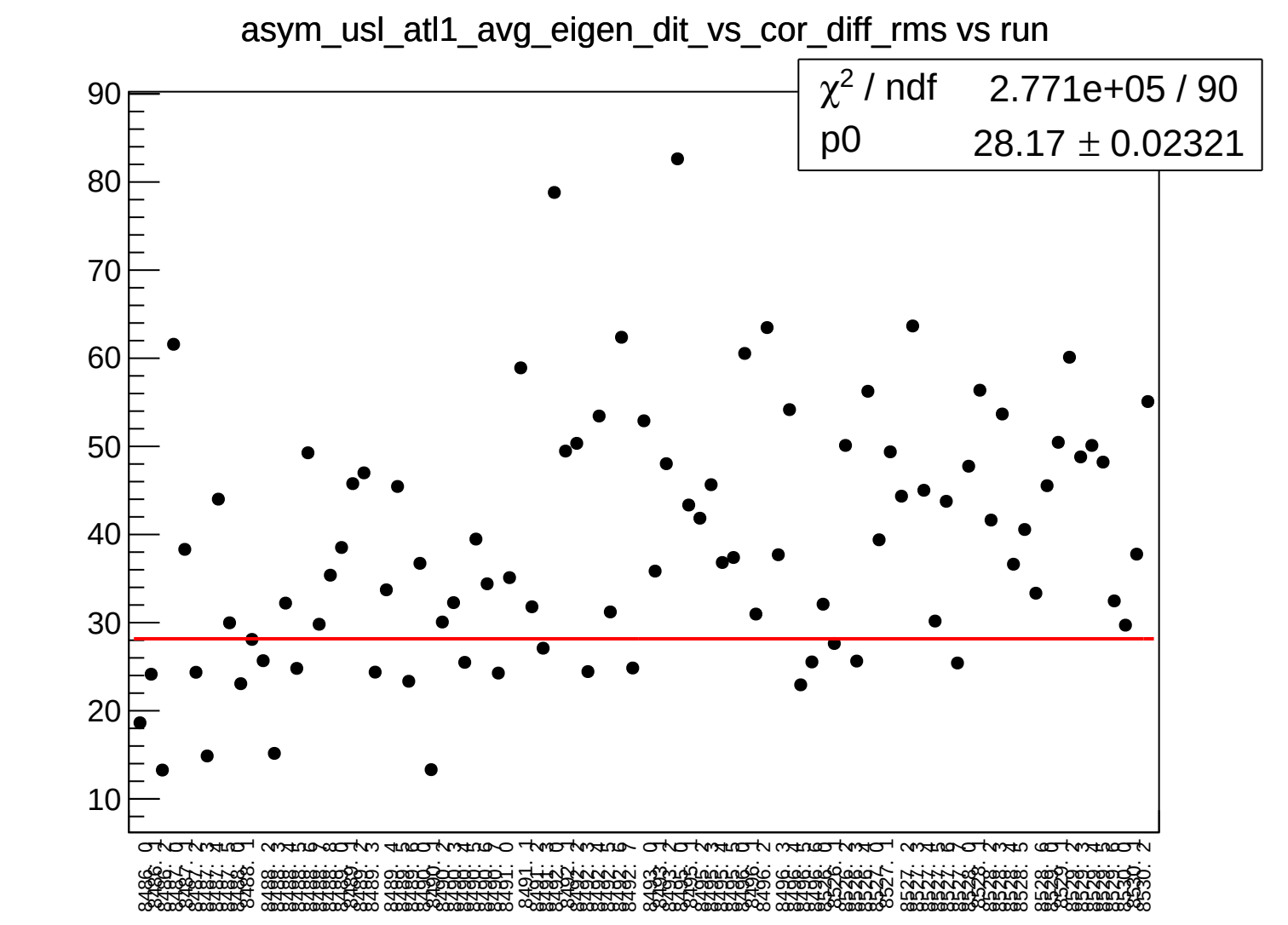

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.771e+05 / 90
p0 28.17 ± 0.02321
90
80
70
60
50
40
30
20
10

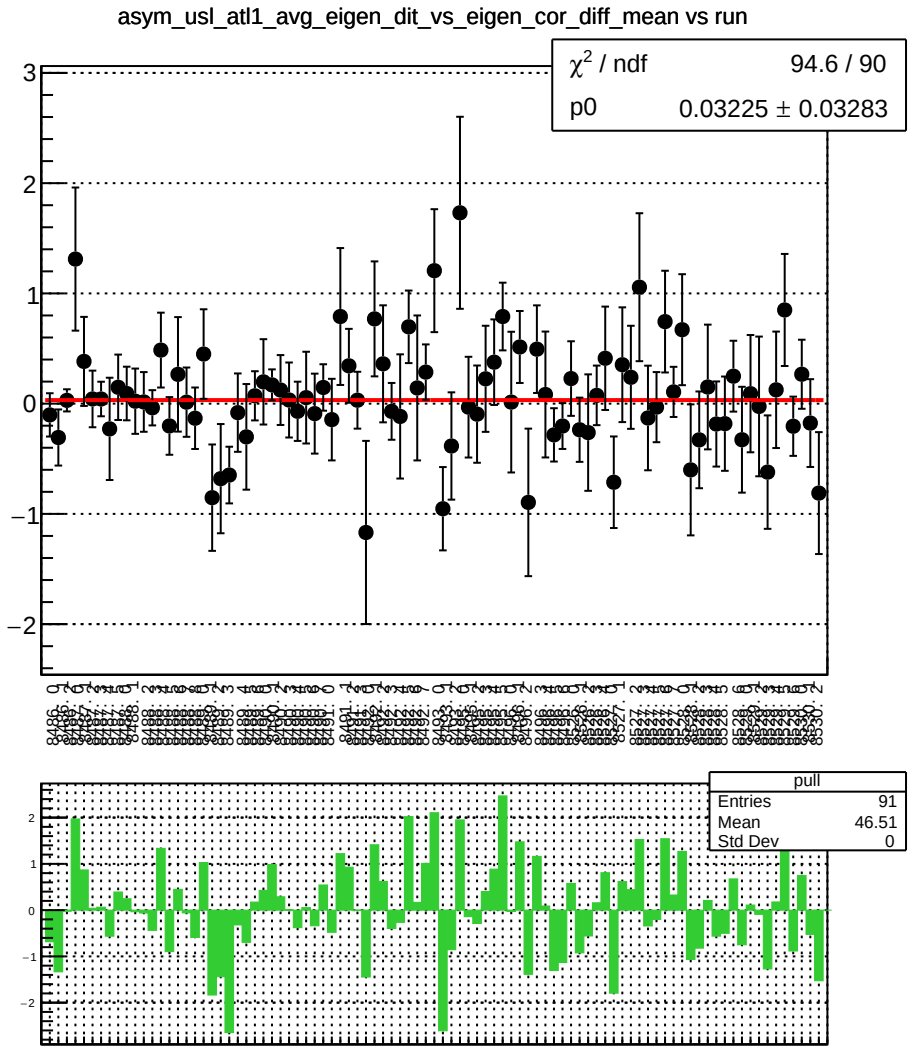

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.59 / 90
p0 −1.68e−06 ± 8.481e−07
0.04
0.02
0
−0.02
−0.04
pull
Entries 91
Mean 92.99
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean 0.04717
Std Dev 0.9967
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

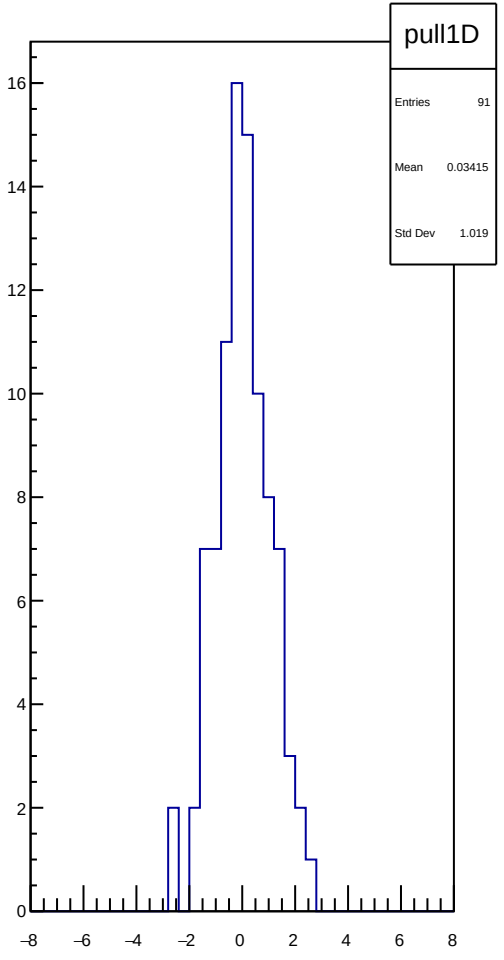

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.118e+05 / 90
p0 0.0007674 ± 5.997e−07
0.0015
0.0014
0.0013
0.0012
0.0011
0.001
0.0009
0.0008
0.0007
0.0006

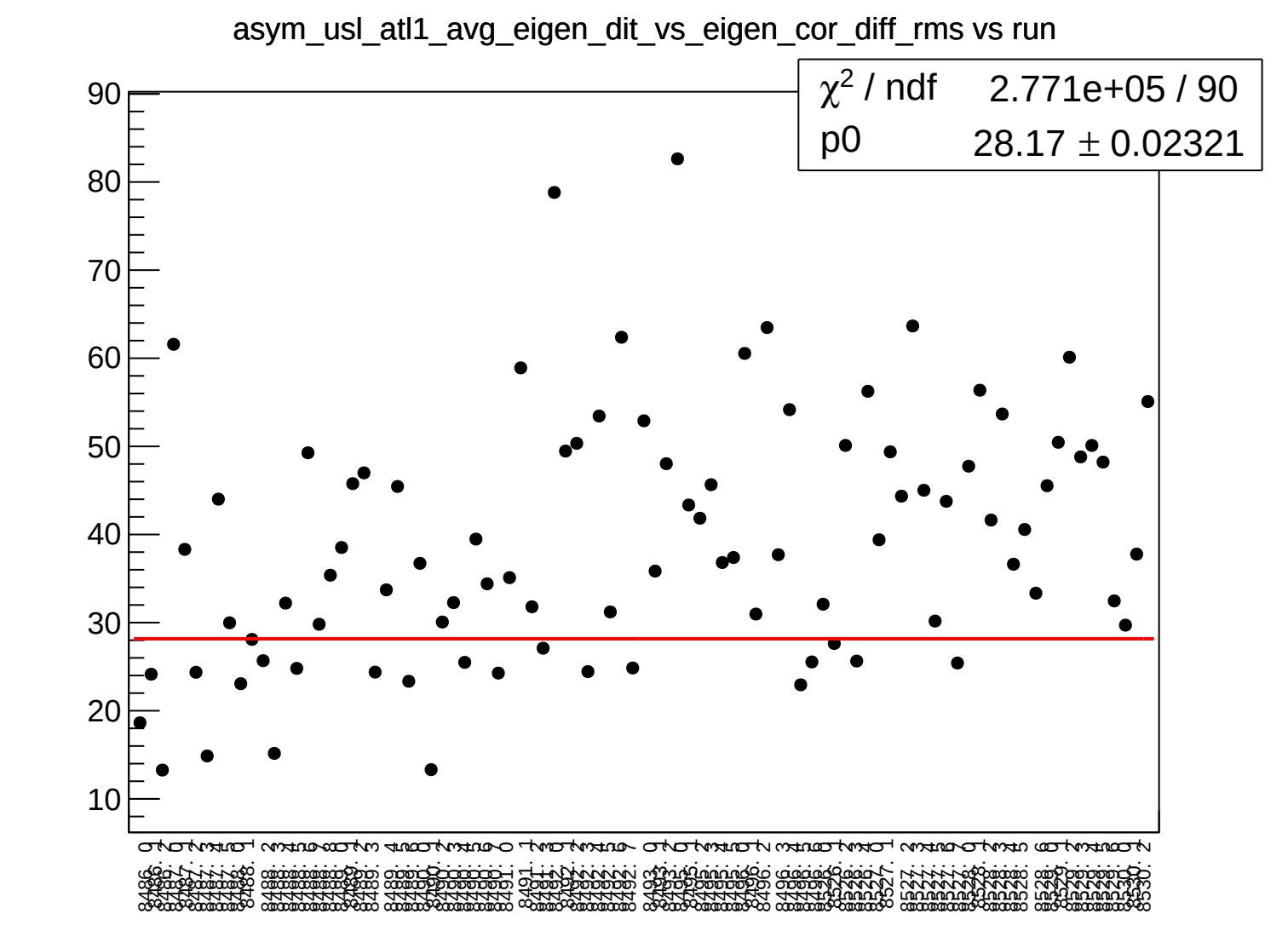

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.6 / 90
p0 0.03225 ± 0.03283
pull
Entries 91
Mean 46.51
Std Dev 0

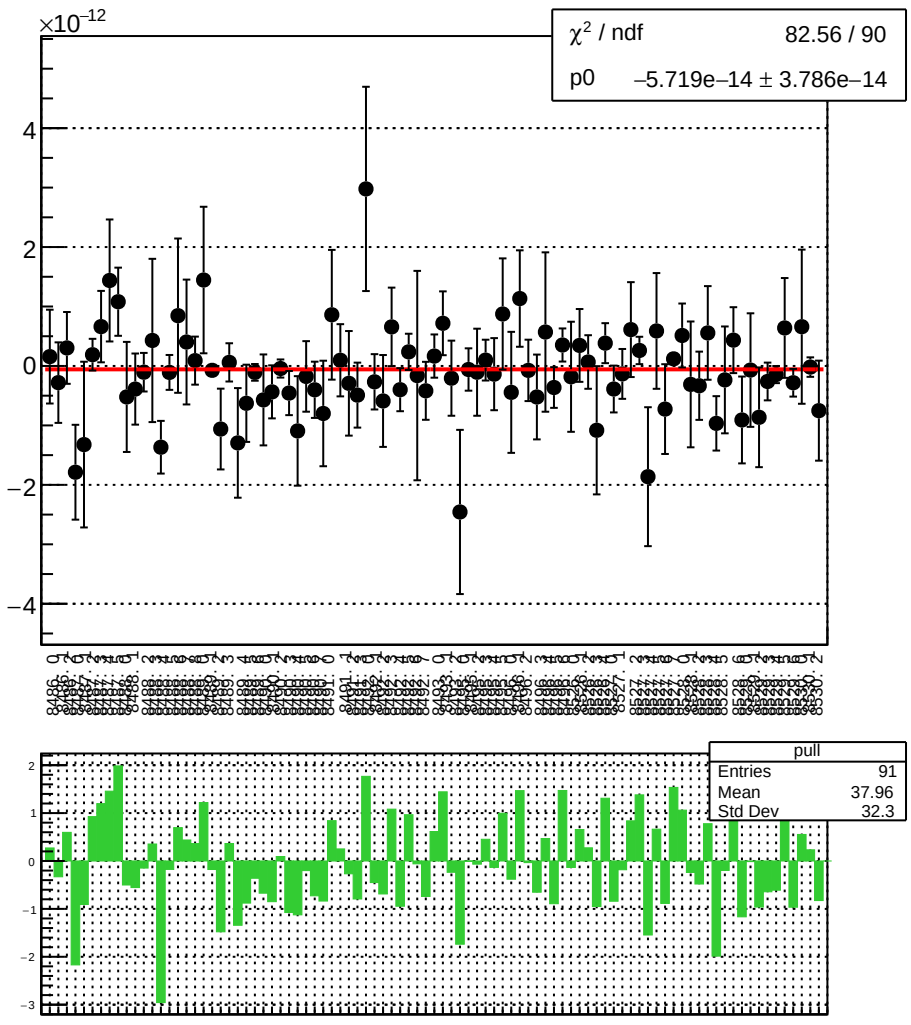

pull1D
Entries 91
Mean 0.03415
Std Dev 1.019

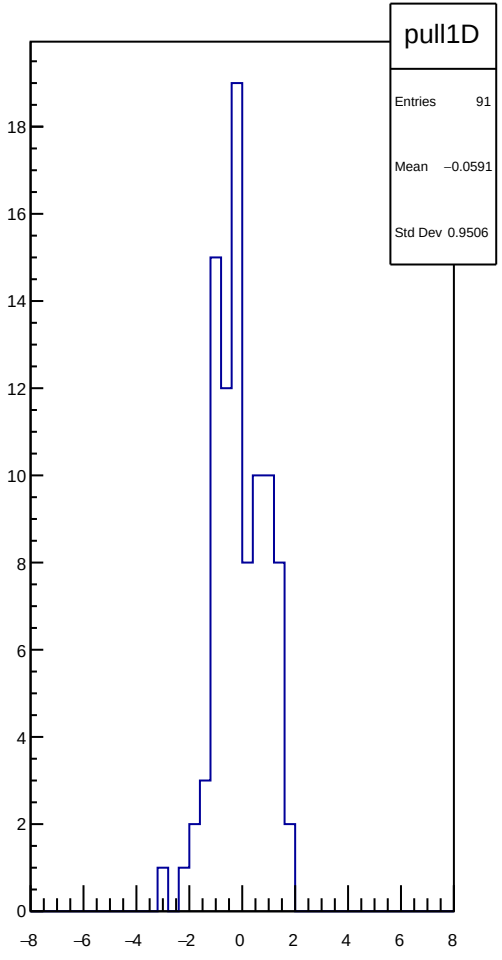

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.771e+05 / 90
p0 28.17 ± 0.02321
90
80
70
60
50
40
30
20
10

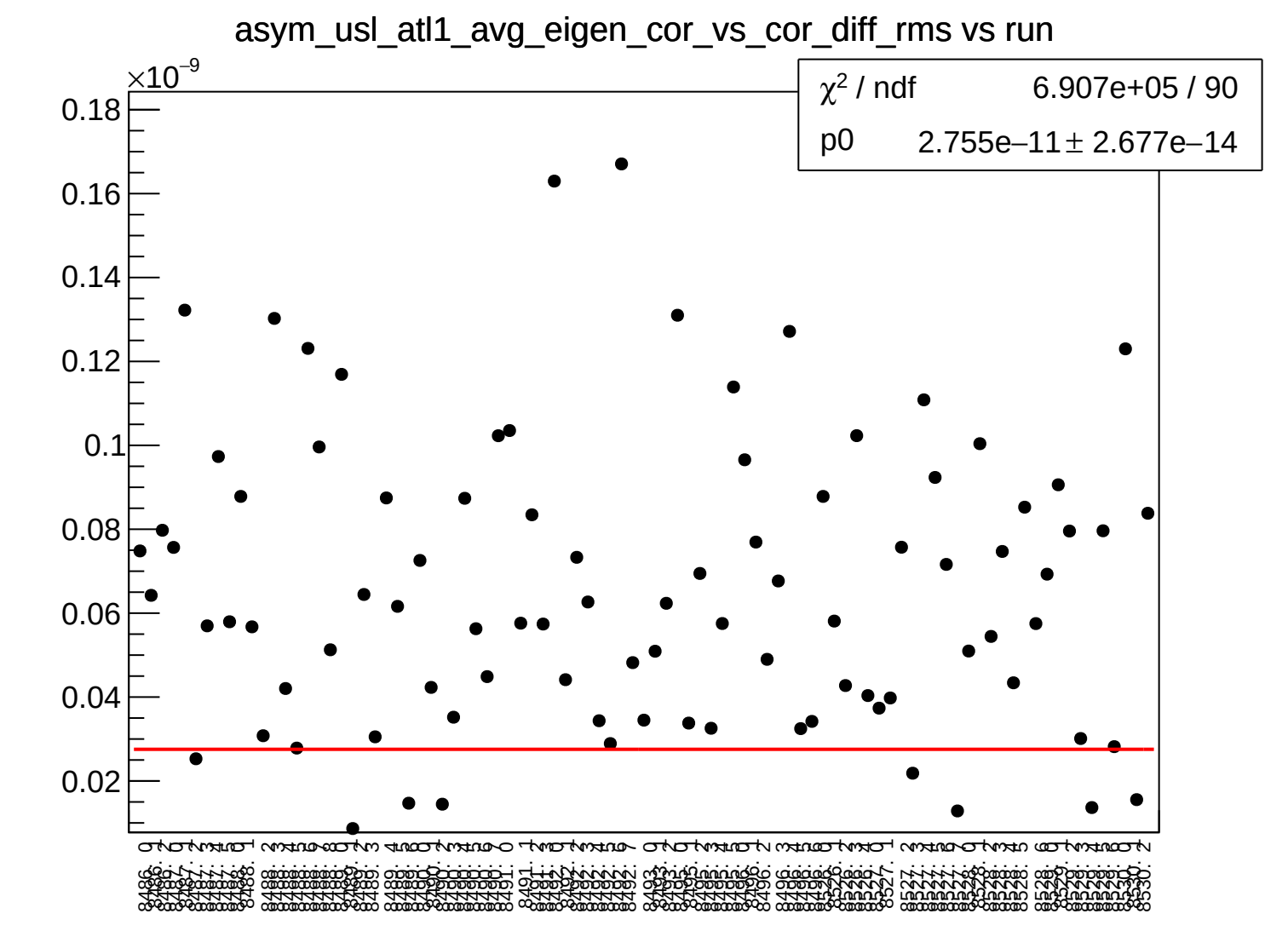

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.6 / 90
p0 0.03225 ± 0.03283
pull
Entries 91
Mean 46.51
Std Dev 0

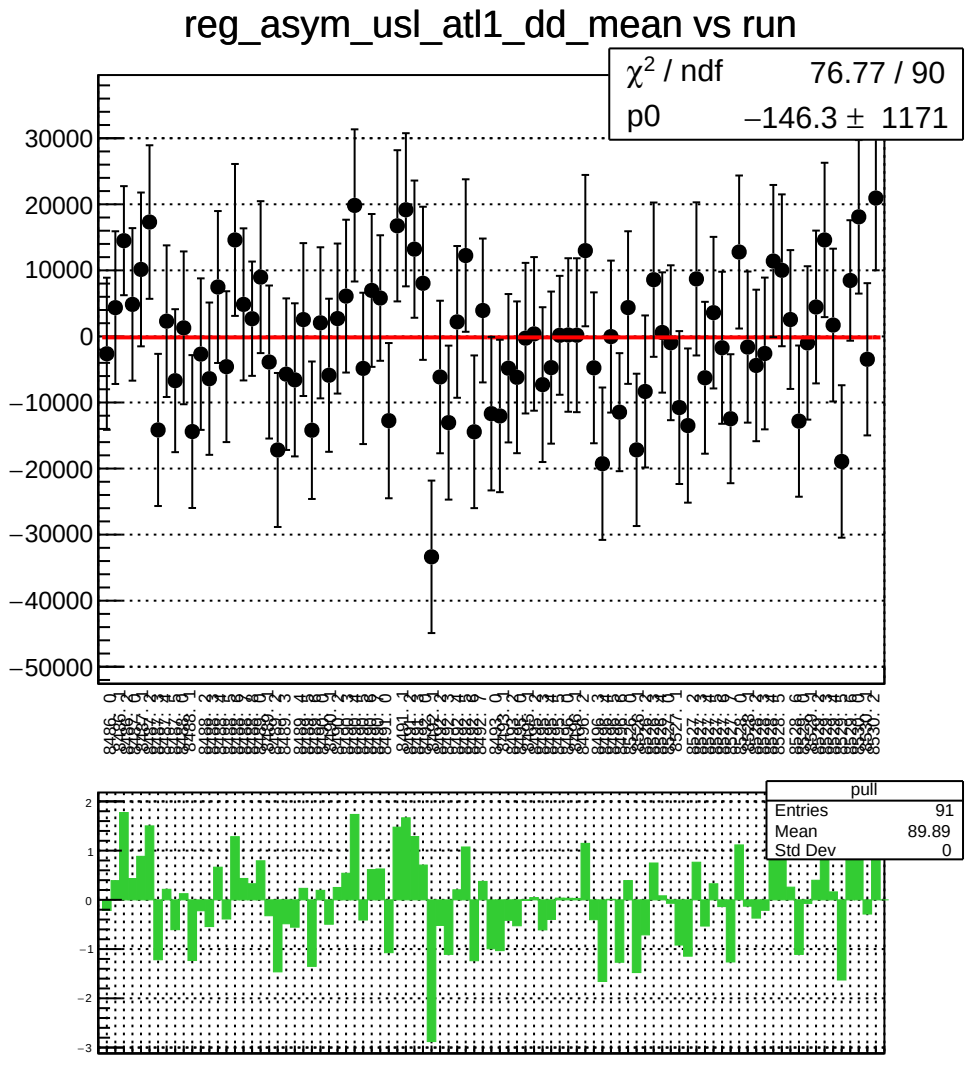

pull1D
Entries 91
Mean 0.03415
Std Dev 1.019

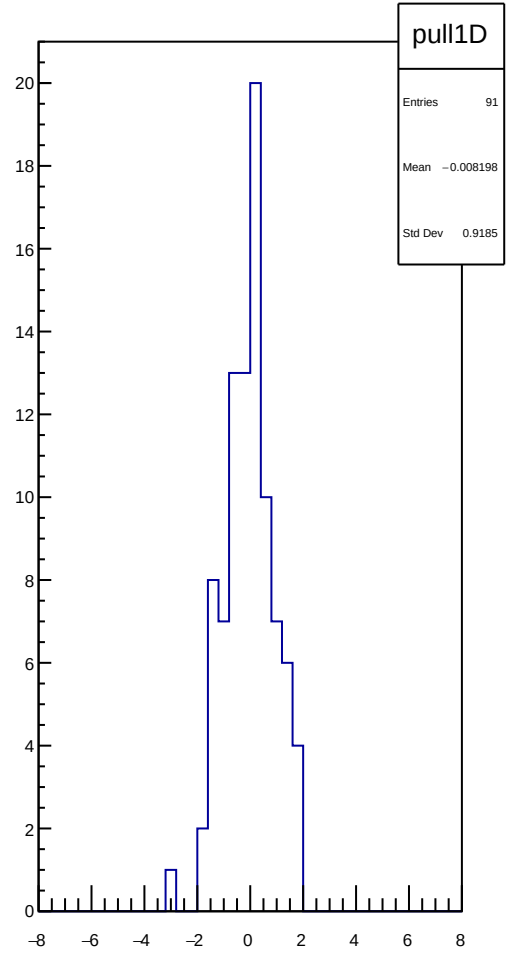

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.771e+05 / 90
p0 28.17 ± 0.02321
90
80
70
60
50
40
30
20
10

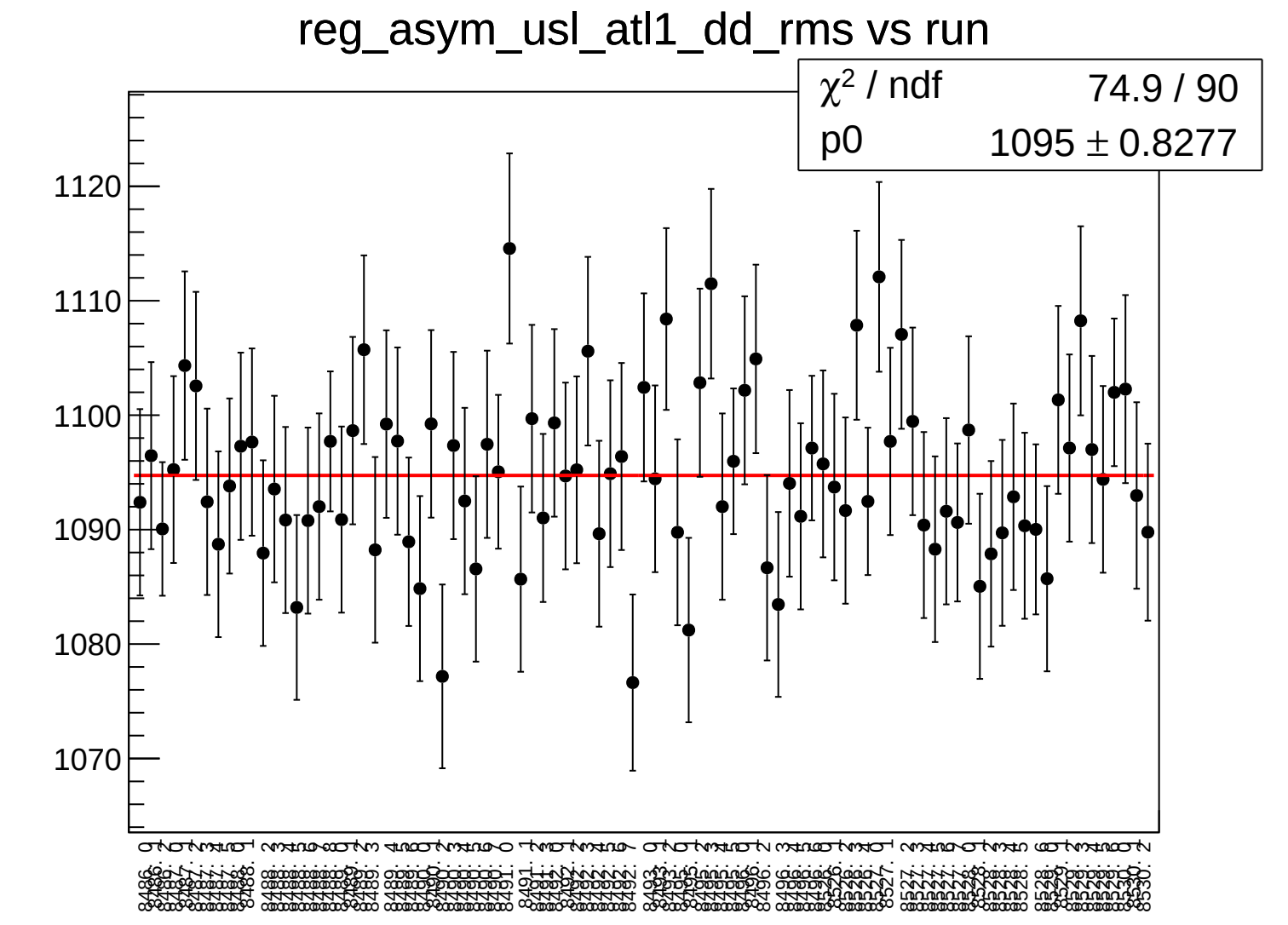

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.56 / 90
p0 −5.719e−14 ± 3.786e−14
pull
Entries 91
Mean 37.96
Std Dev 32.3

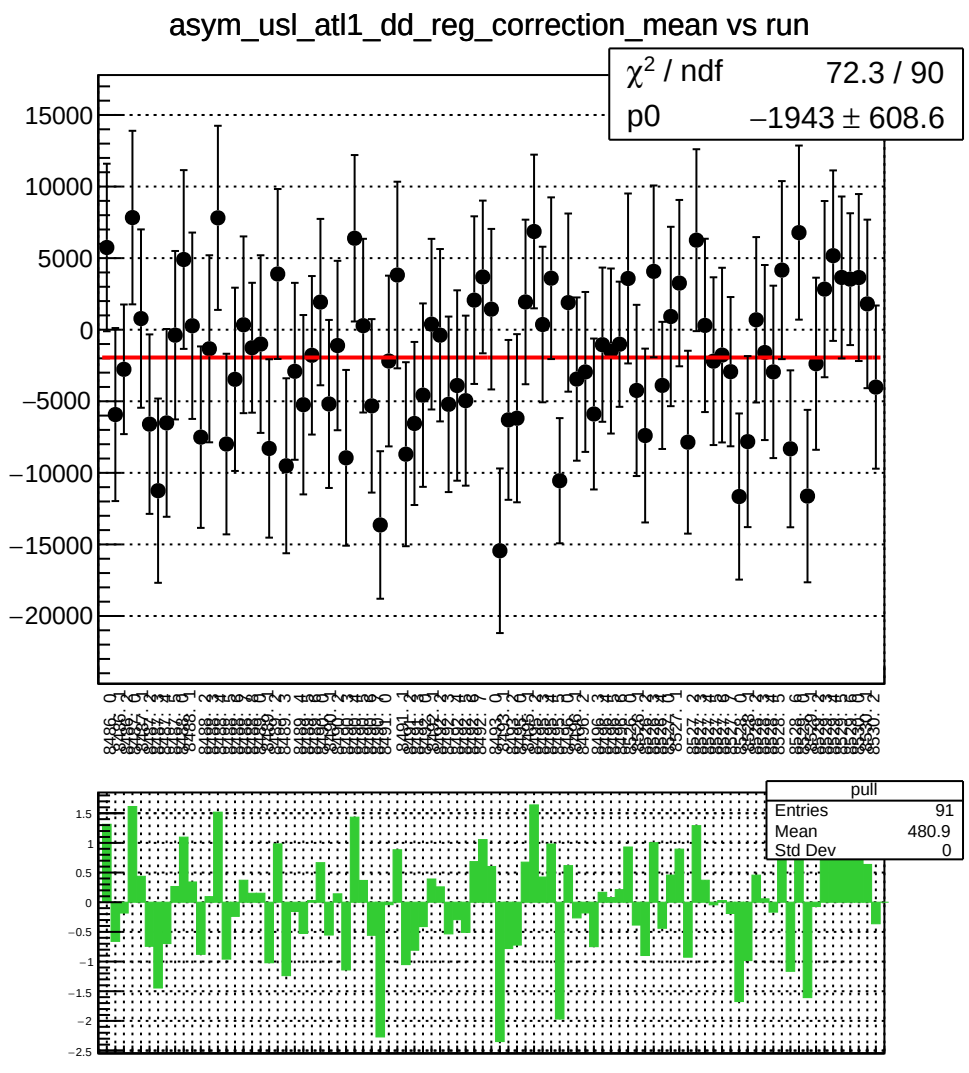

pull1D
Entries 91
Mean −0.0591
Std Dev 0.9506

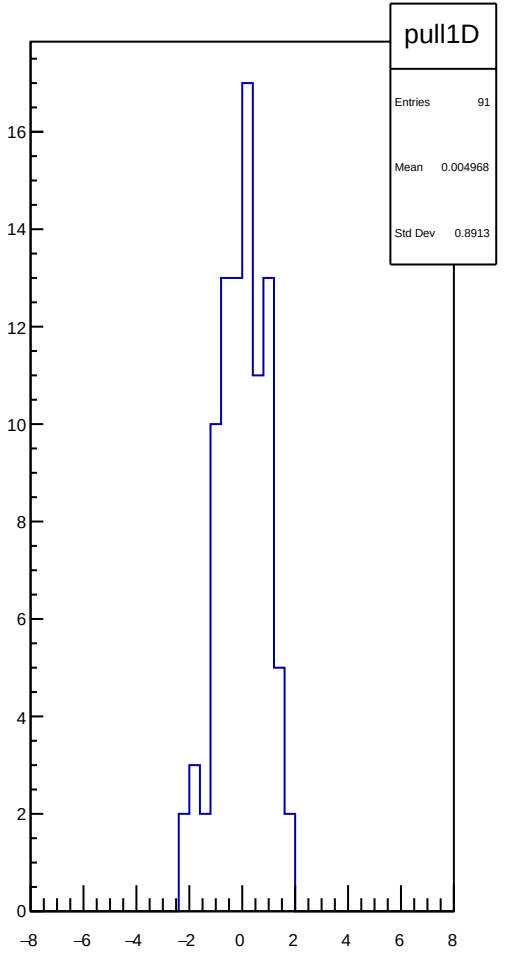

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.907e+05 / 90
p0 2.755e−11 ± 2.677e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

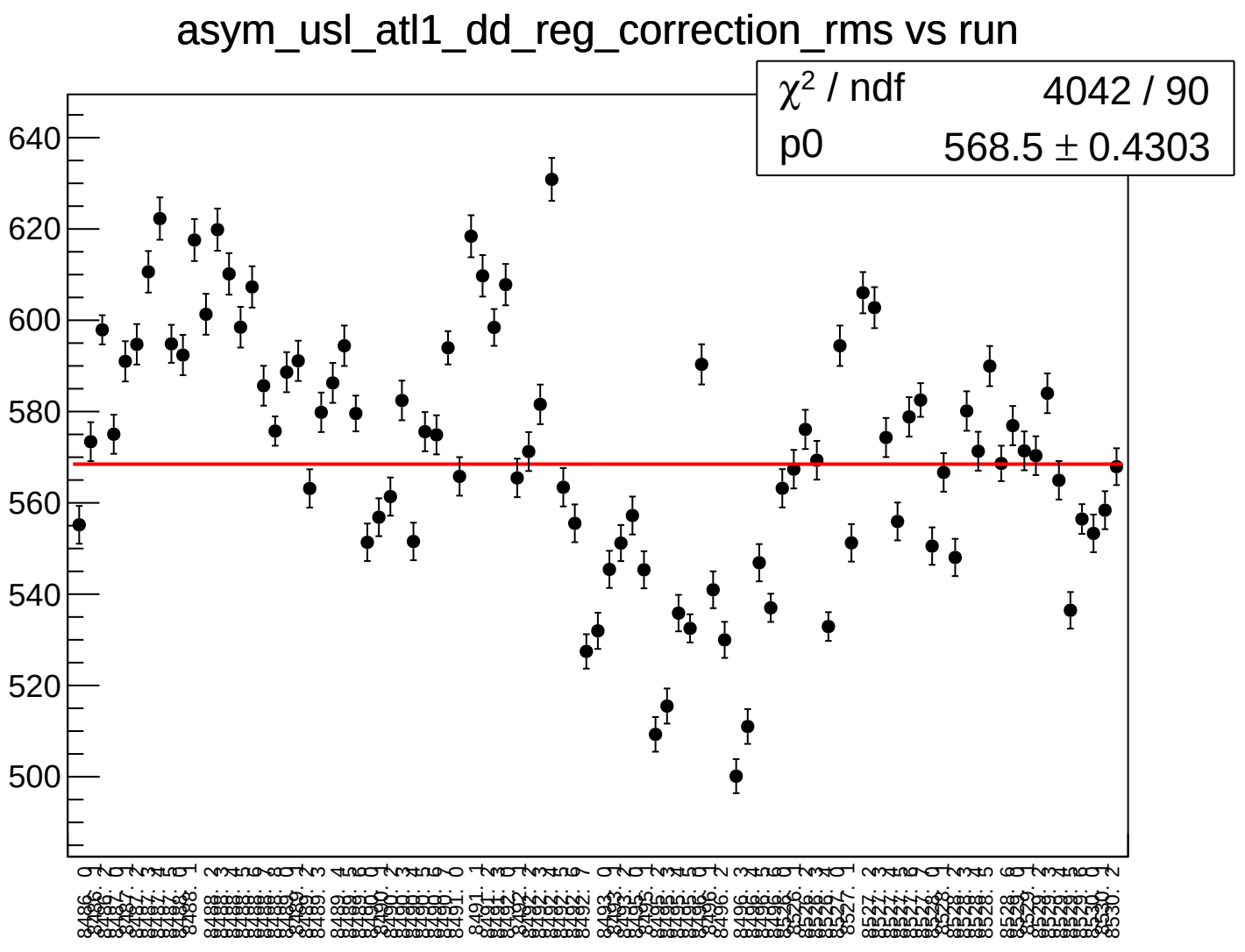

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 76.77 / 90
p0 −146.3 ± 1171
pull
Entries 91
Mean 89.89
Std Dev 0

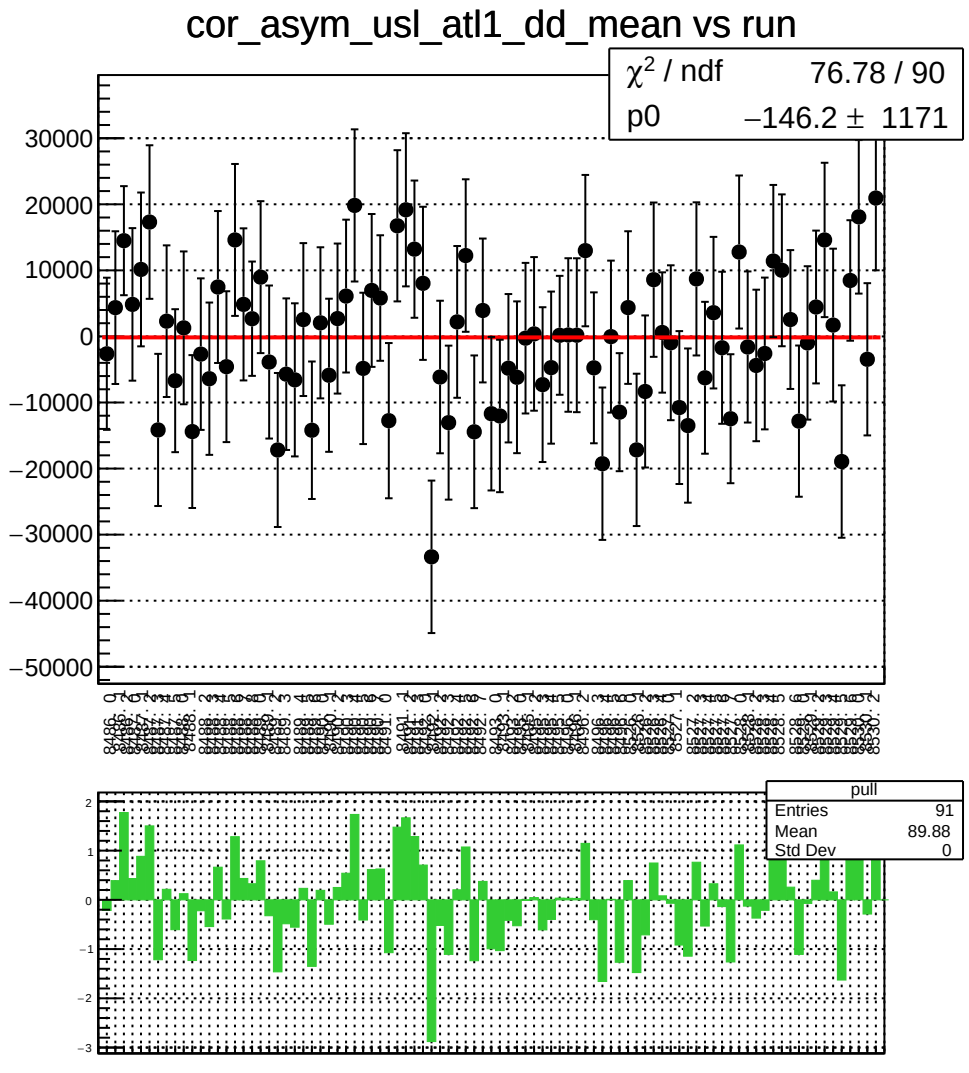

pull1D
Entries 91
Mean −0.008198
Std Dev 0.9185

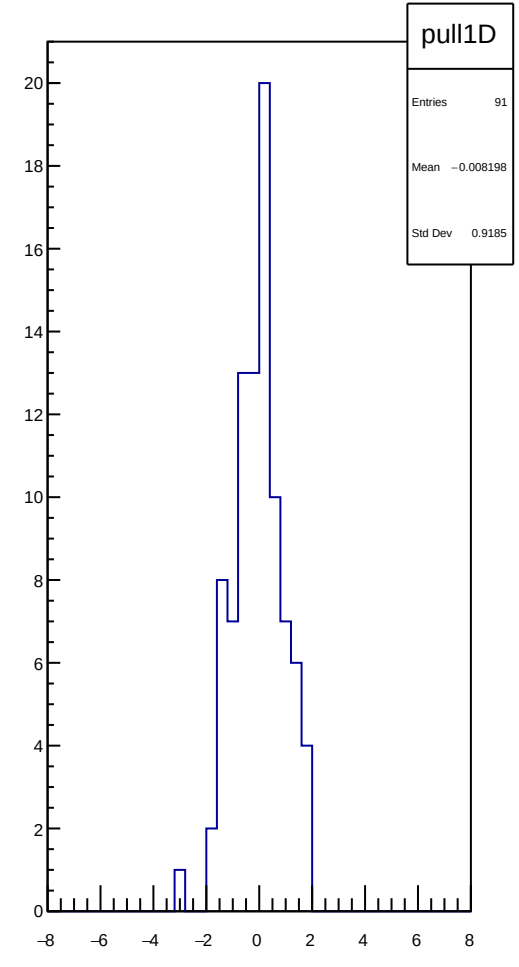

reg_asym_usl_atl1_dd_rms vs run
χ^2 / ndf 74.9 / 90
p0 1095 ± 0.8277
1120
1110
1100
1090
1080
1070

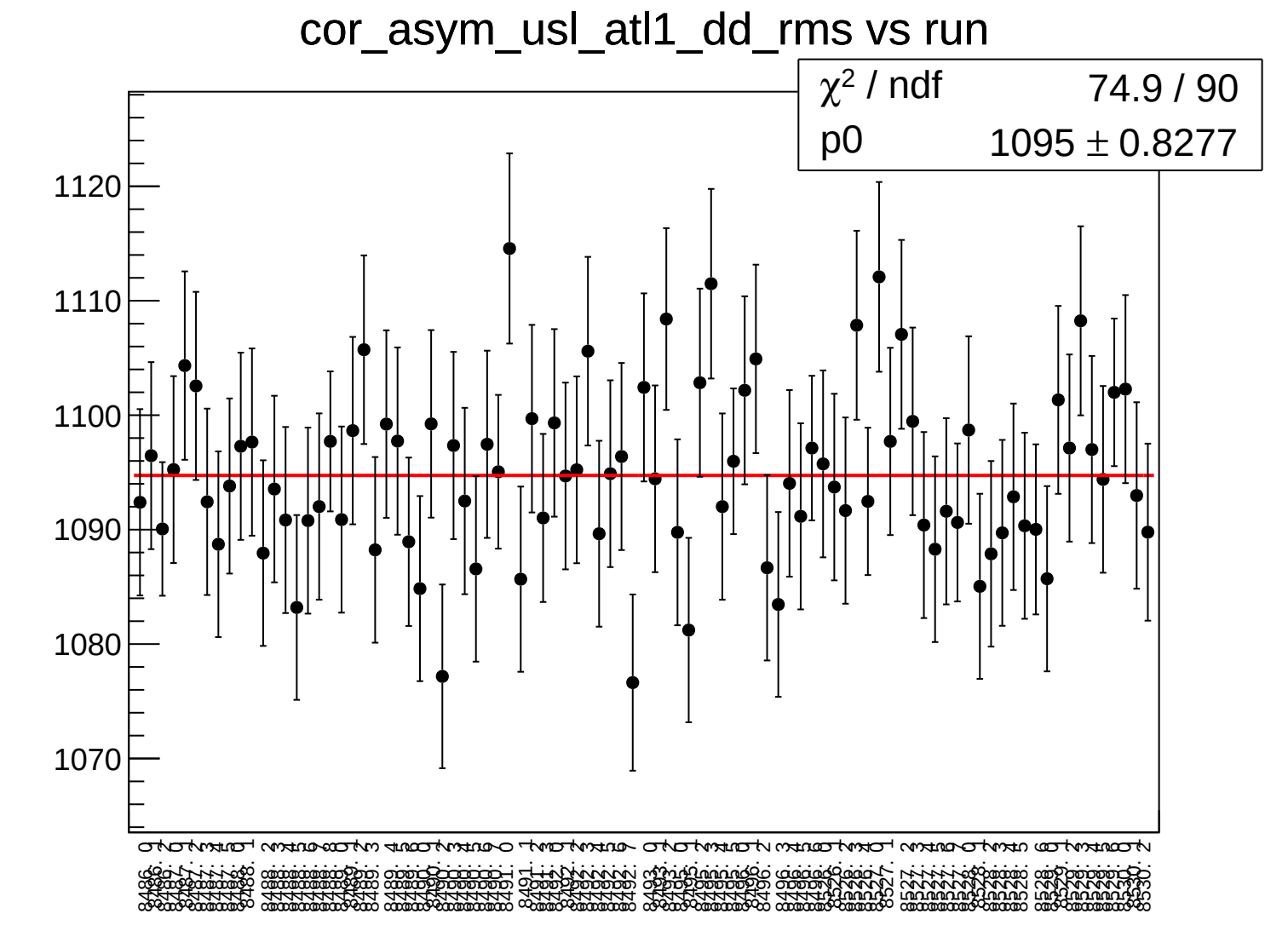

asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 72.3 / 90
p0 −1943 ± 608.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 91
Mean 480.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

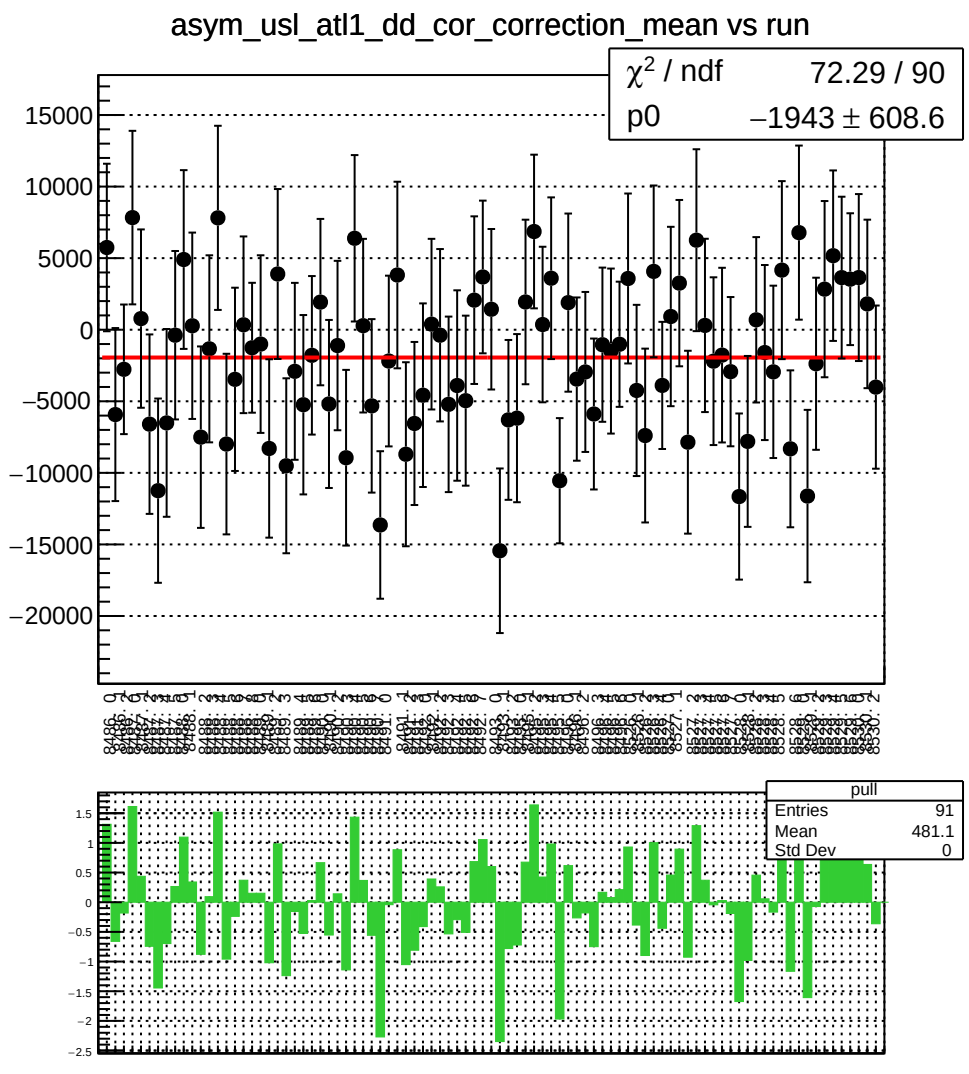

pull1D
Entries 91
Mean 0.004968
Std Dev 0.8913
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

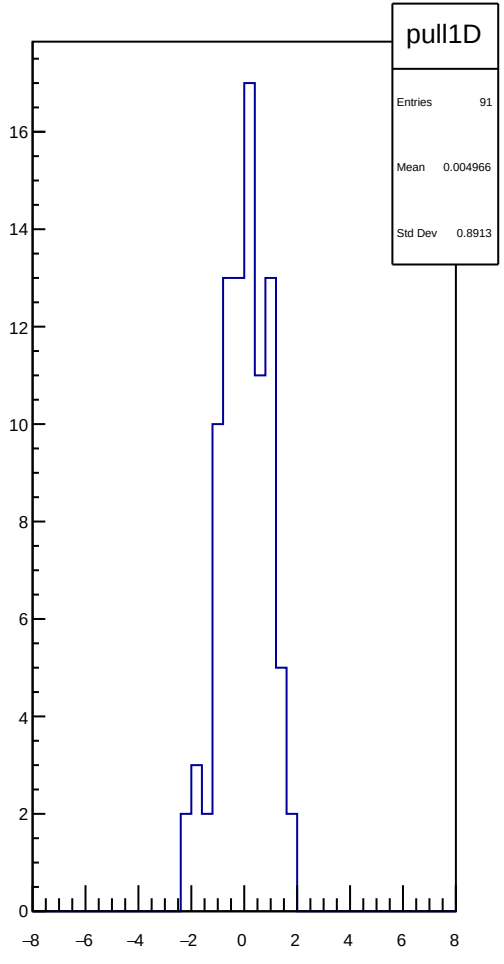

asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 4042 / 90
p0 568.5 ± 0.4303
640
620
600
580
560
540
520
500

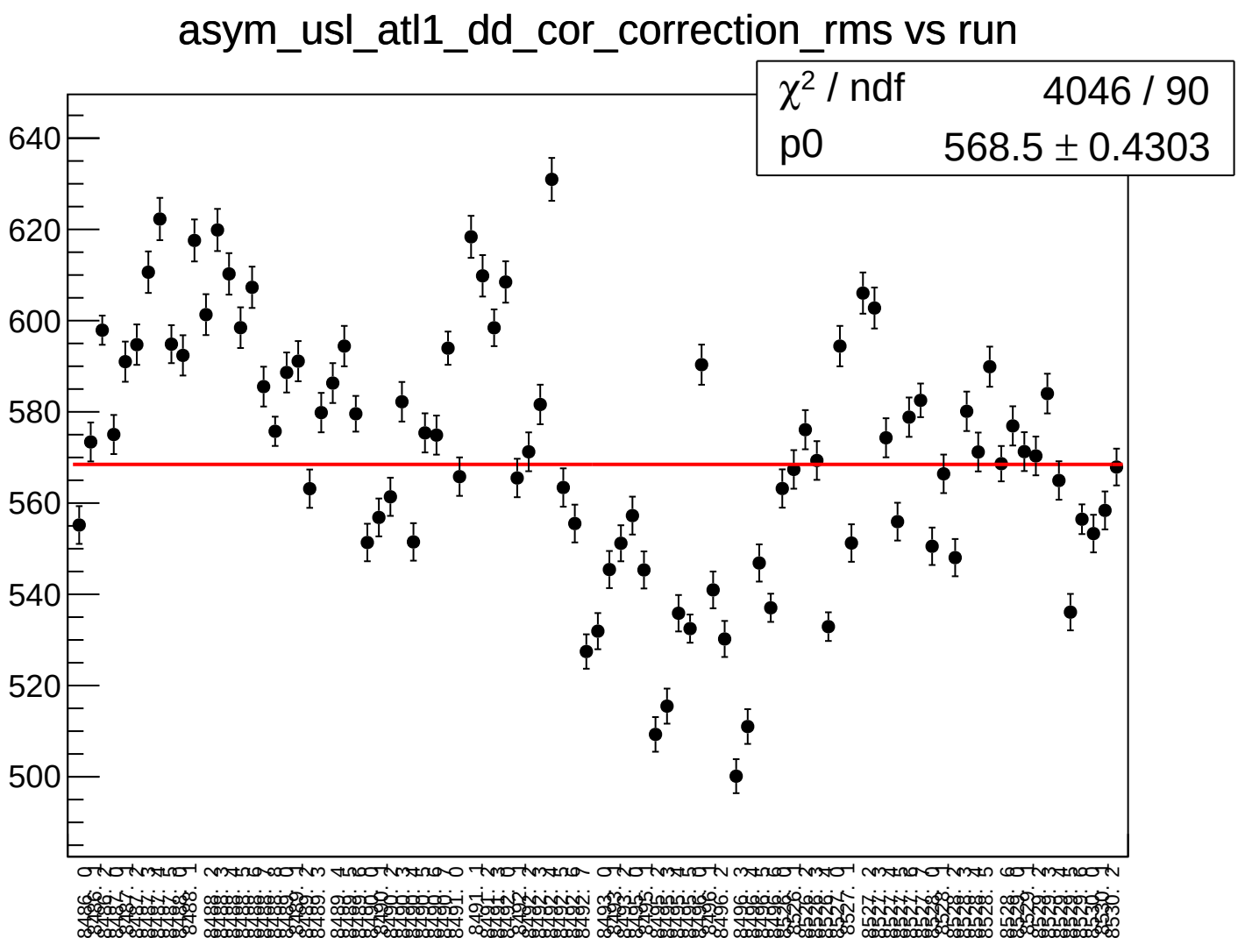

cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 76.78 / 90
p0 −146.2 ± 1171
pull
Entries 91
Mean 89.88
Std Dev 0

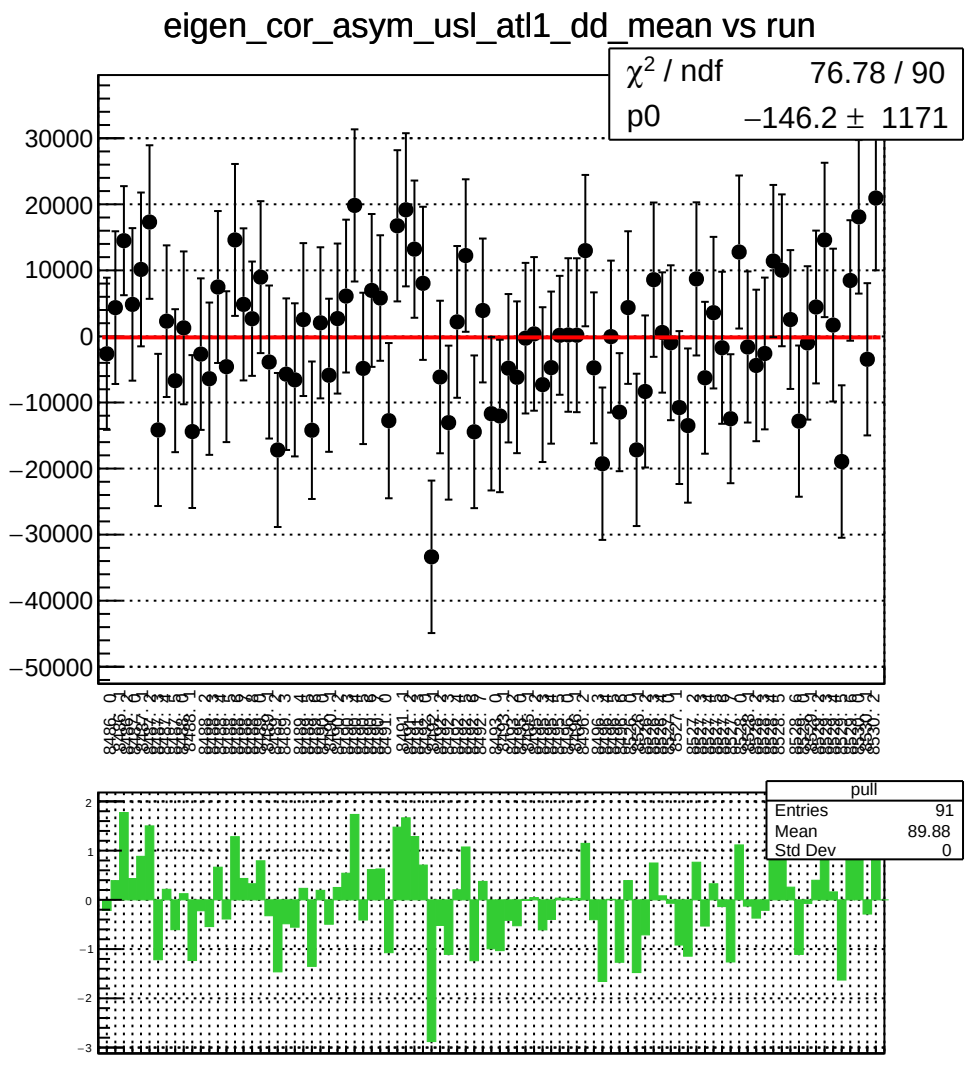

pull1D
Entries 91
Mean −0.008198
Std Dev 0.9185

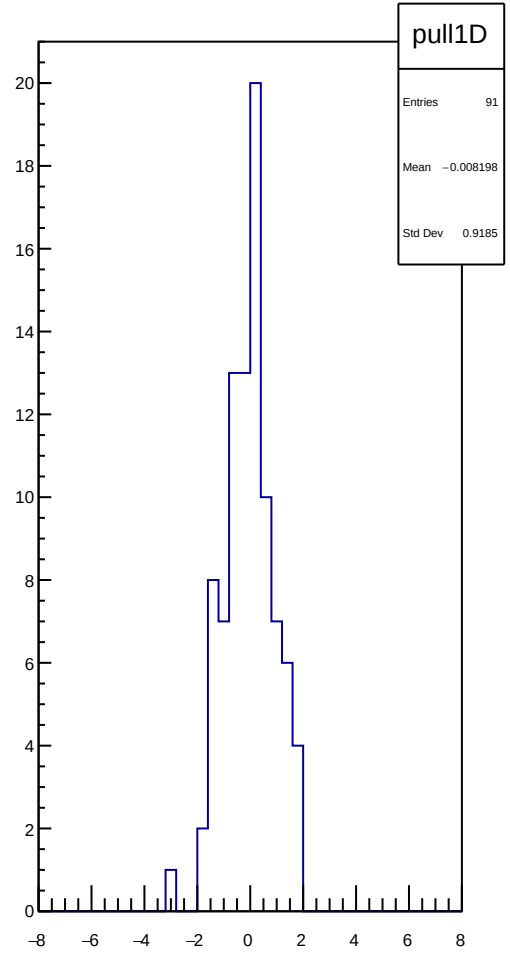

cor_asym_usl_atl1_dd_rms vs run
χ^2 / ndf 74.9 / 90
p0 1095 ± 0.8277
1120
1110
1100
1090
1080
1070

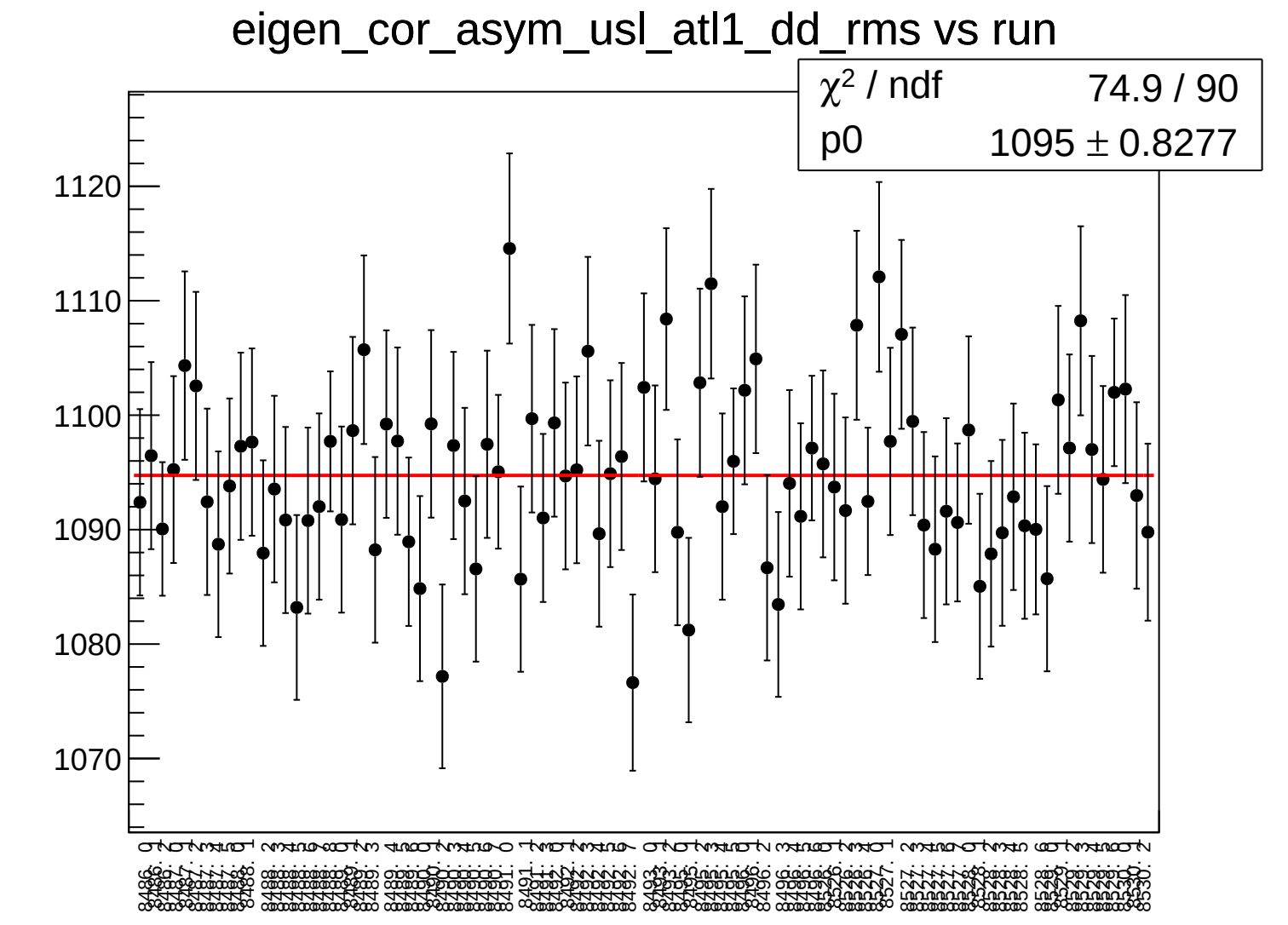

asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 72.29 / 90
p0 −1943 ± 608.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 91
Mean 481.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

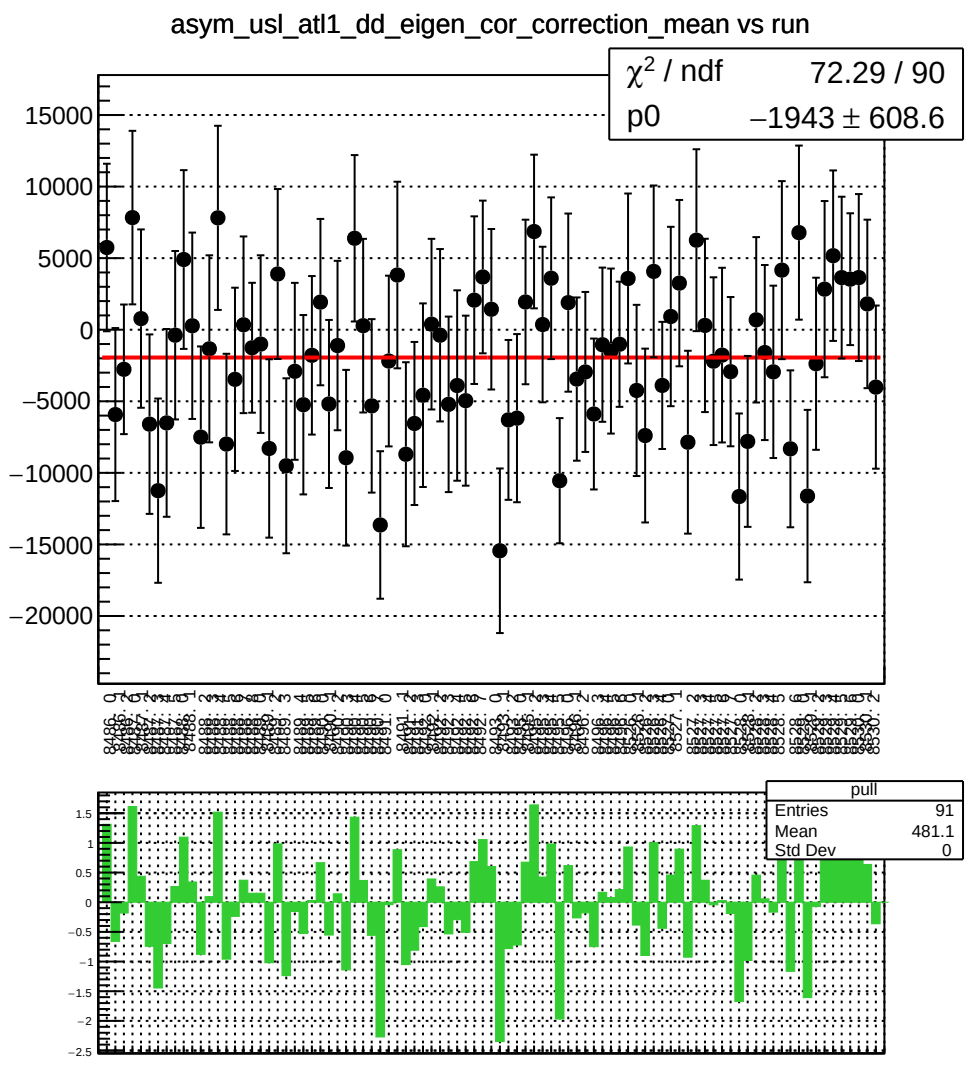

pull1D
Entries 91
Mean 0.004966
Std Dev 0.8913
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

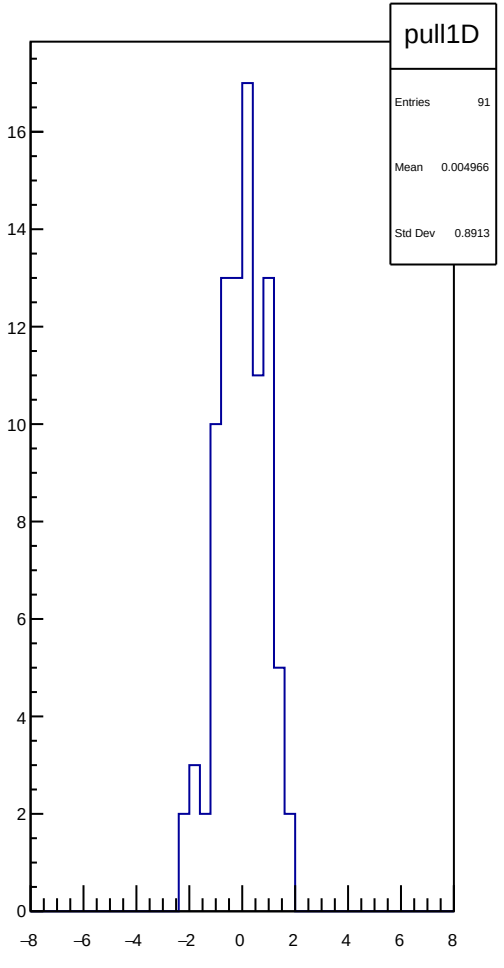

asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 4046 / 90
p0 568.5 ± 0.4303
640
620
600
580
560
540
520
500

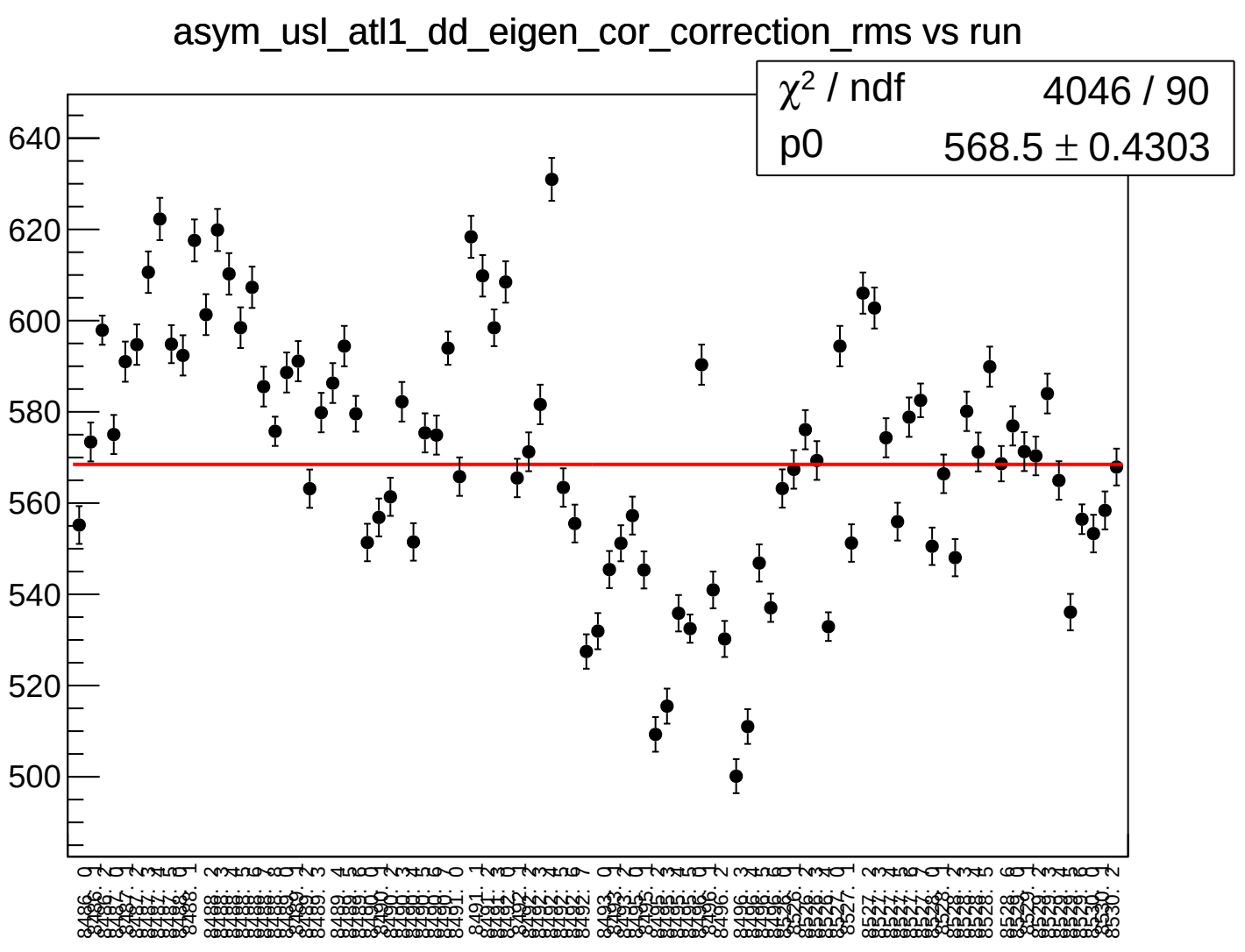

eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 76.78 / 90
p0 −146.2 ± 1171
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 91
Mean 89.88
Std Dev 0
2
1
0
−1
−2
−3

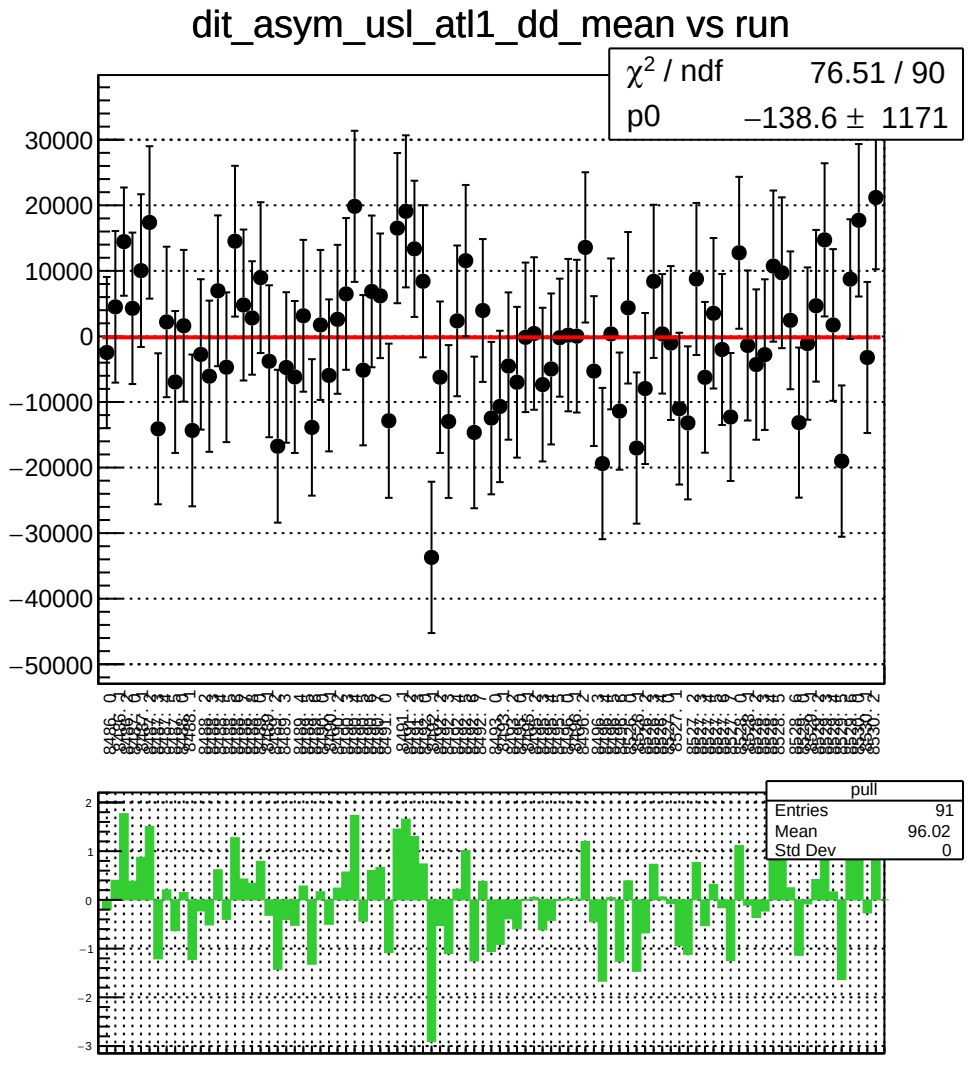

pull1D
Entries 91
Mean −0.008198
Std Dev 0.9185
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

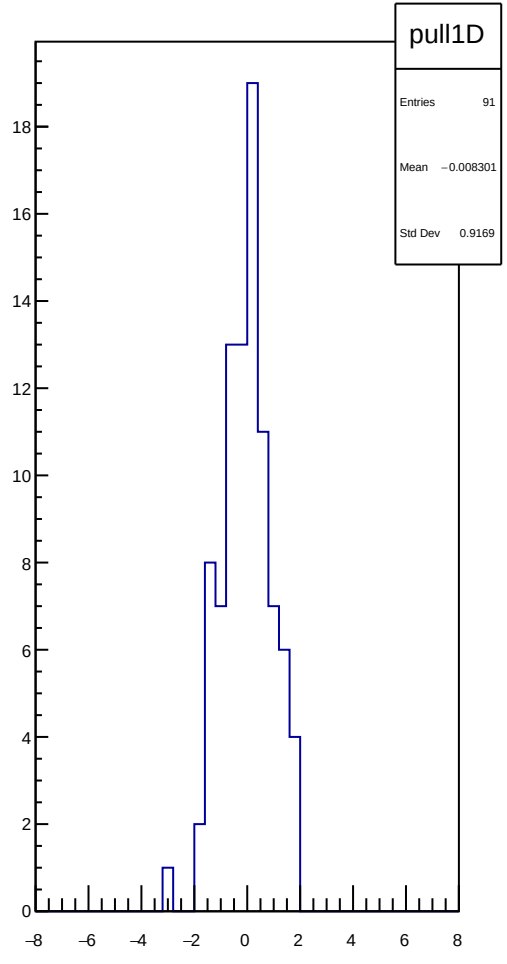

eigen_cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 74.9 / 90
p0 1095 ± 0.8277
1120
1110
1100
1090
1080
1070

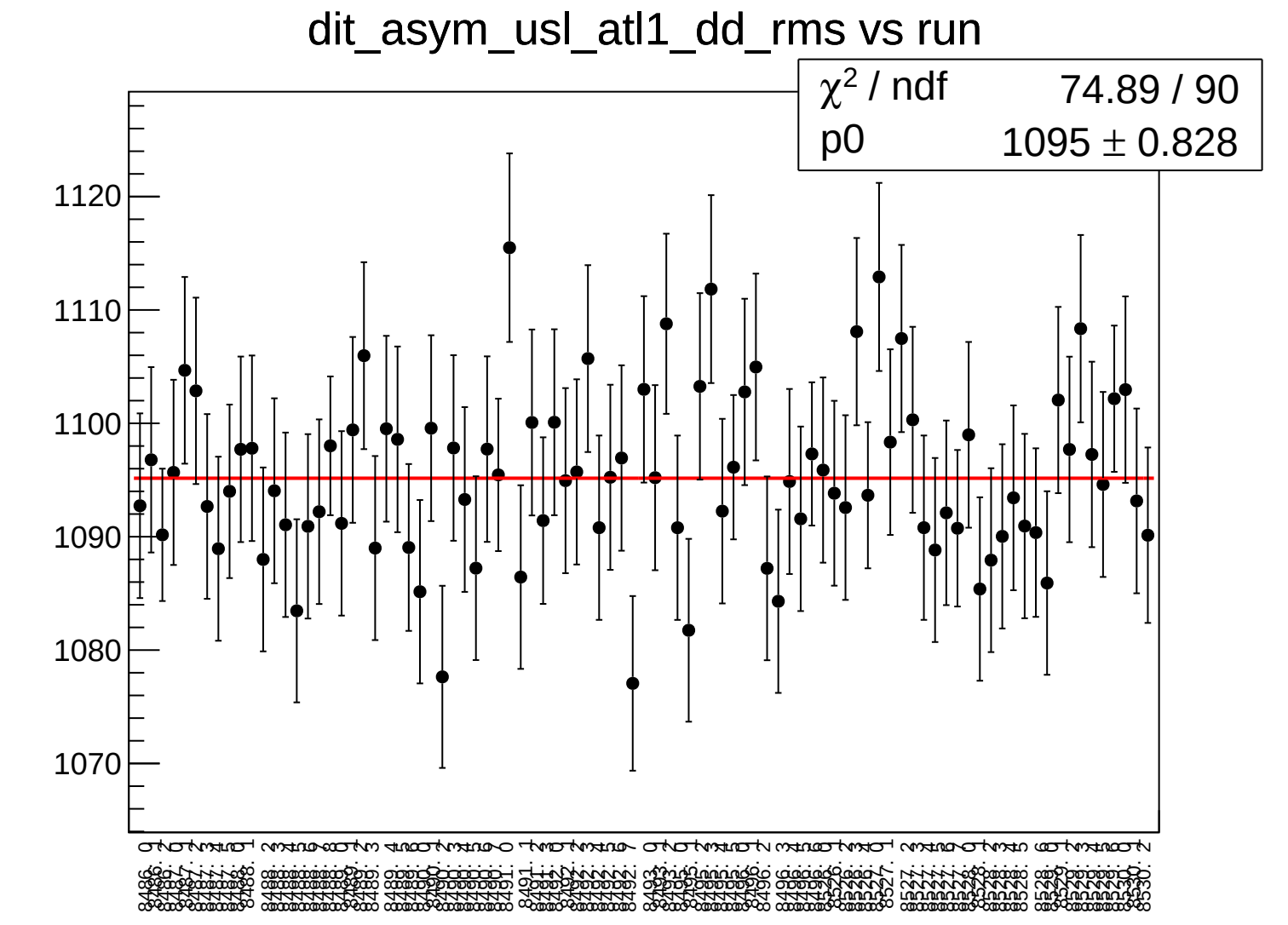

asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 72.29 / 90
p0 −1943 ± 608.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 91
Mean 481.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

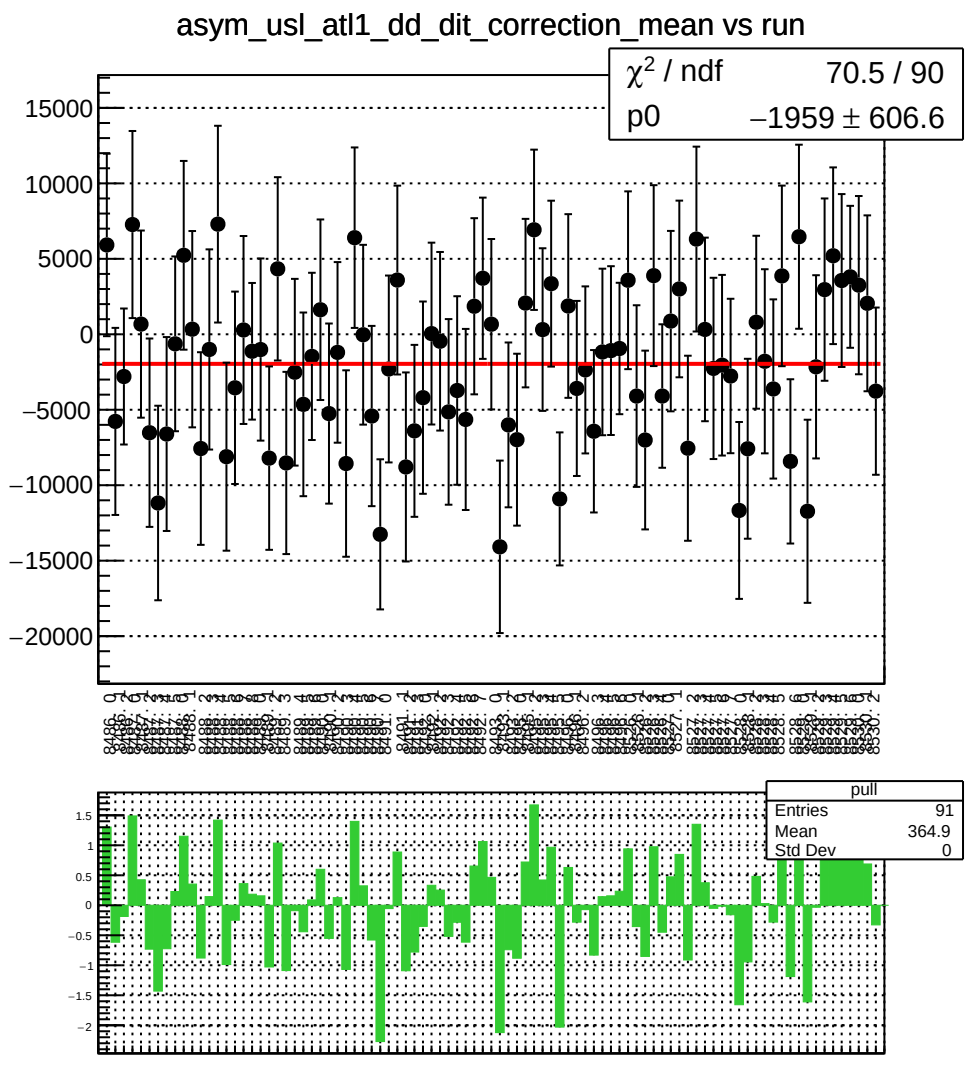

pull1D
Entries 91
Mean 0.004966
Std Dev 0.8913
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

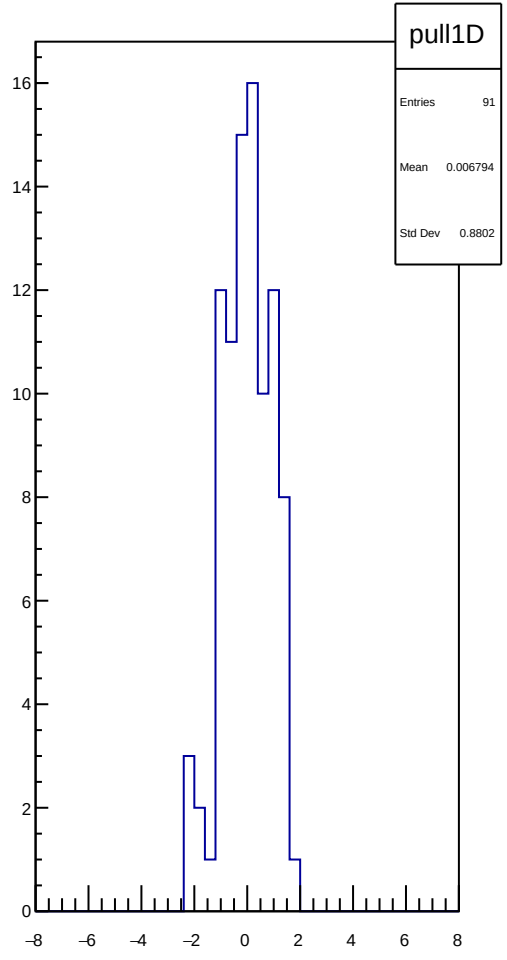

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 4046 / 90
p0 568.5 ± 0.4303
640
620
600
580
560
540
520
500

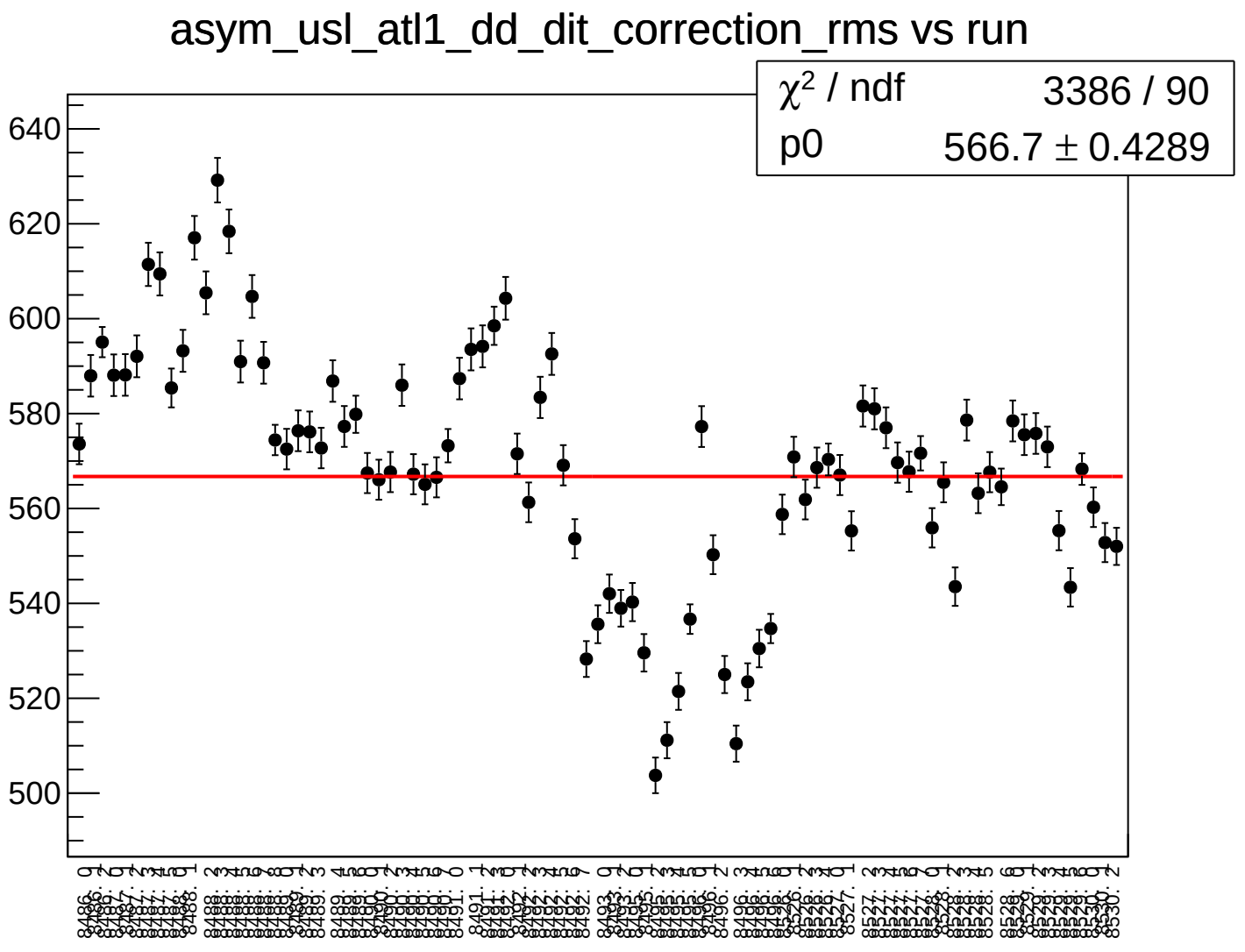

dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 76.51 / 90
p0 −138.6 ± 1171
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 91
Mean 96.02
Std Dev 0
2
1
0
−1
−2
−3

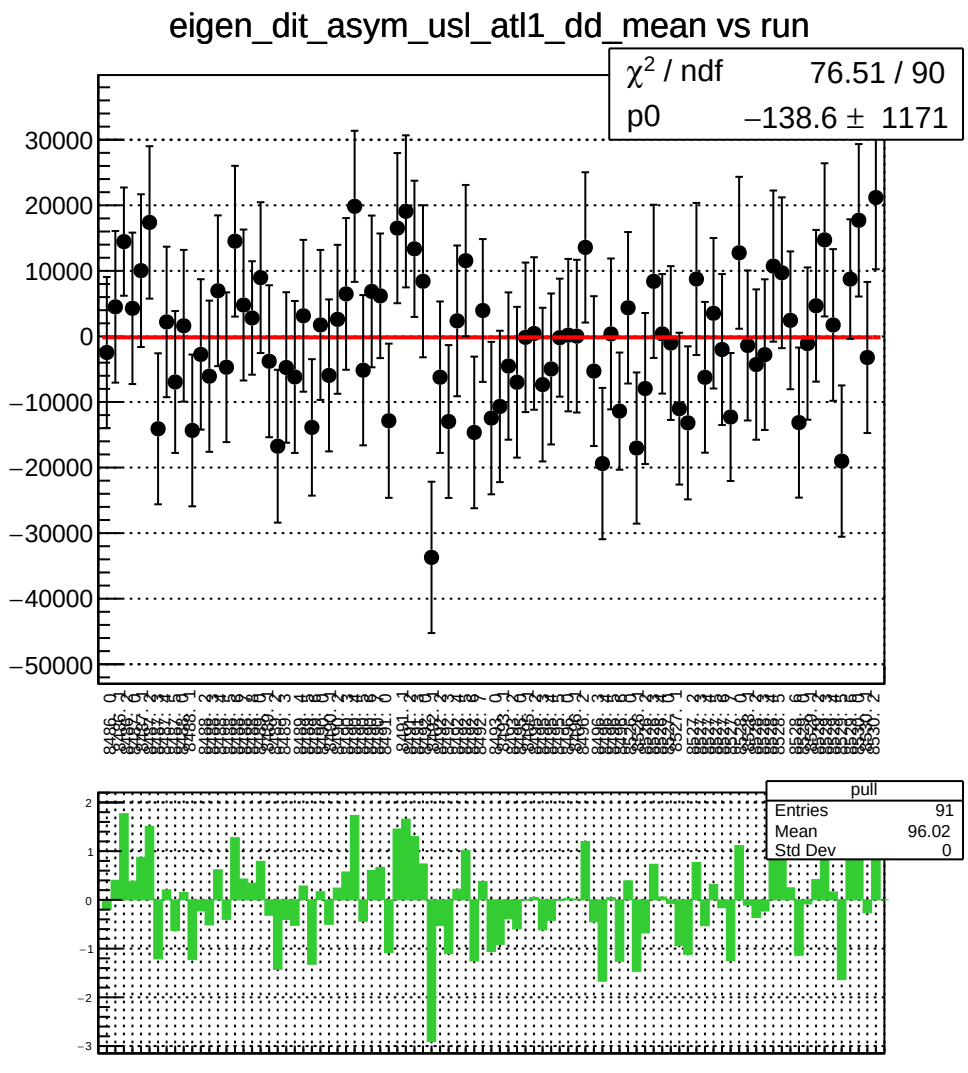

pull1D
Entries 91
Mean −0.008301
Std Dev 0.9169
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

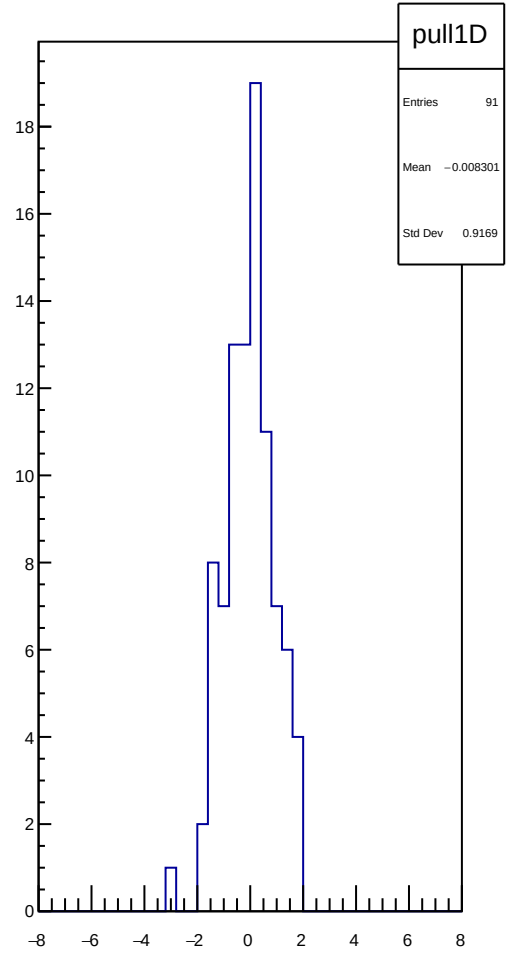

dit_asym_usl_atl1_dd_rms vs run
χ^2 / ndf 74.89 / 90
p0 1095 ± 0.828
1120
1110
1100
1090
1080
1070

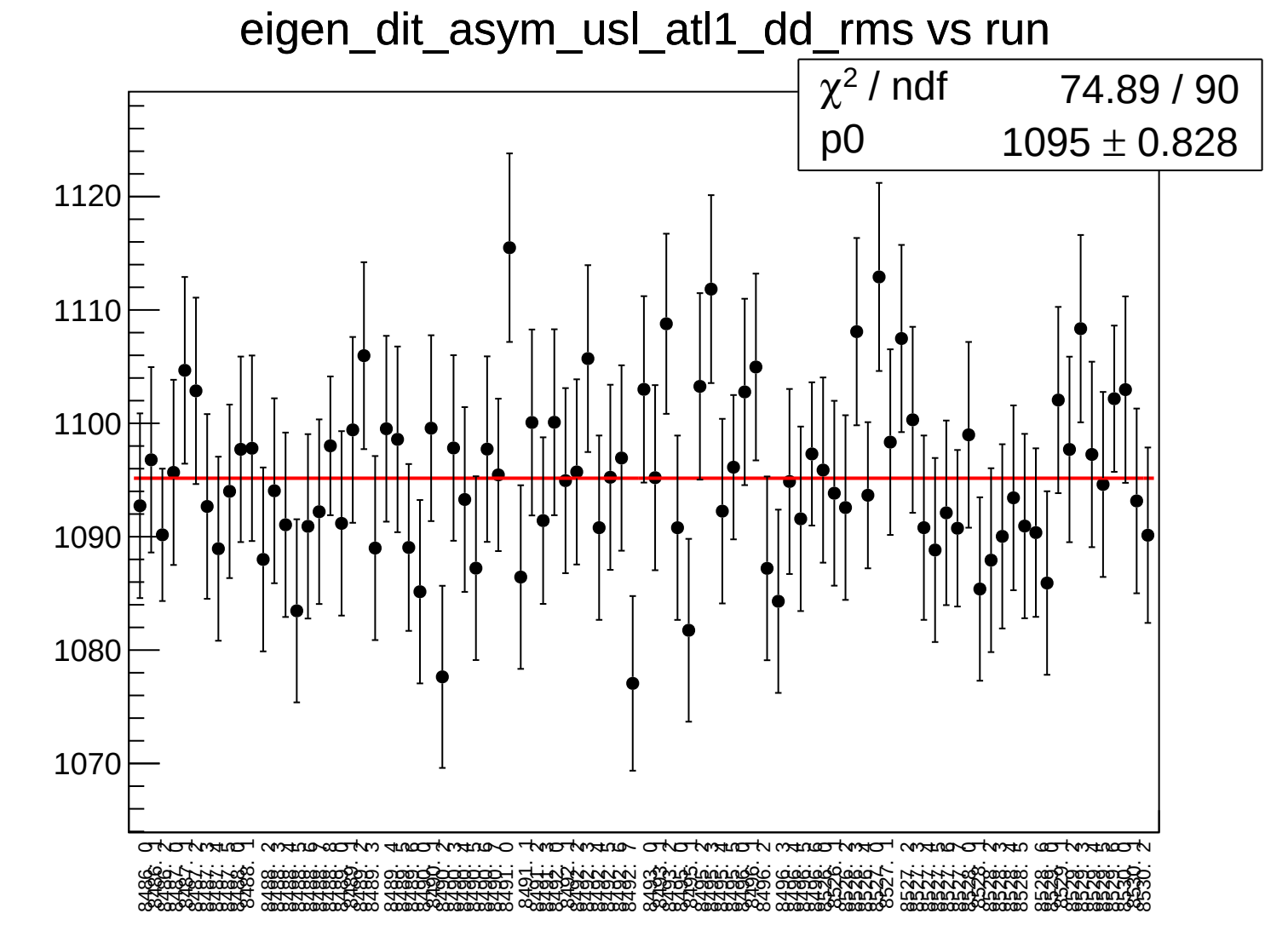

asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 70.5 / 90
p0 −1959 ± 606.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 91
Mean 364.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

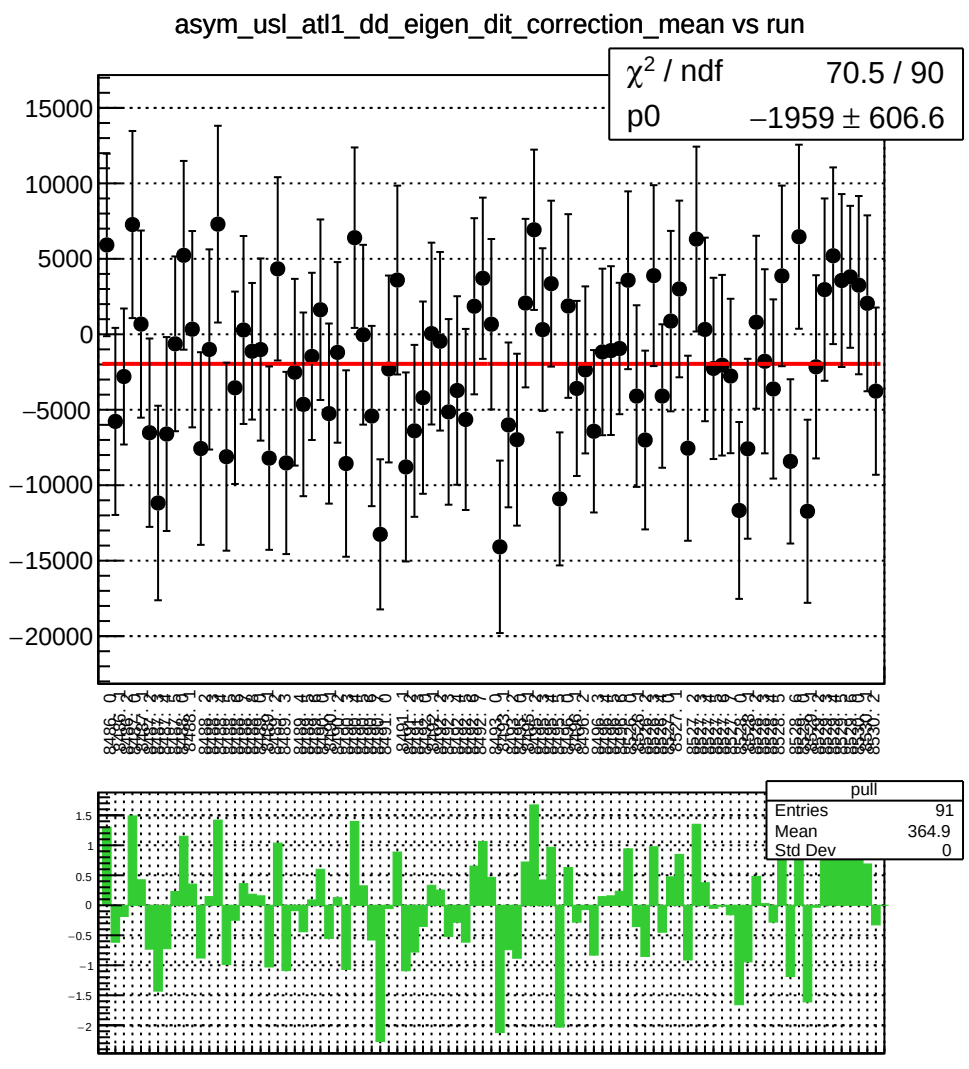

pull1D
Entries 91
Mean 0.006794
Std Dev 0.8802
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

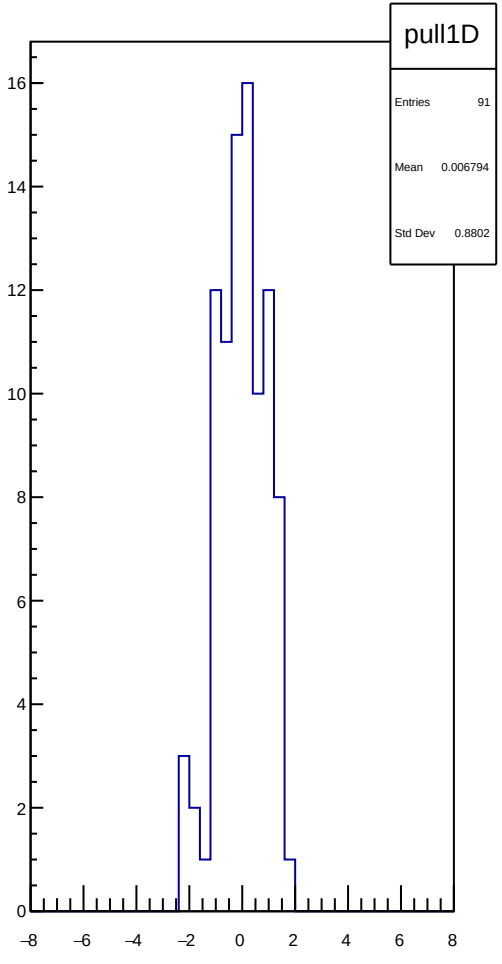

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 3386 / 90
p0 566.7 ± 0.4289
640
620
600
580
560
540
520
500

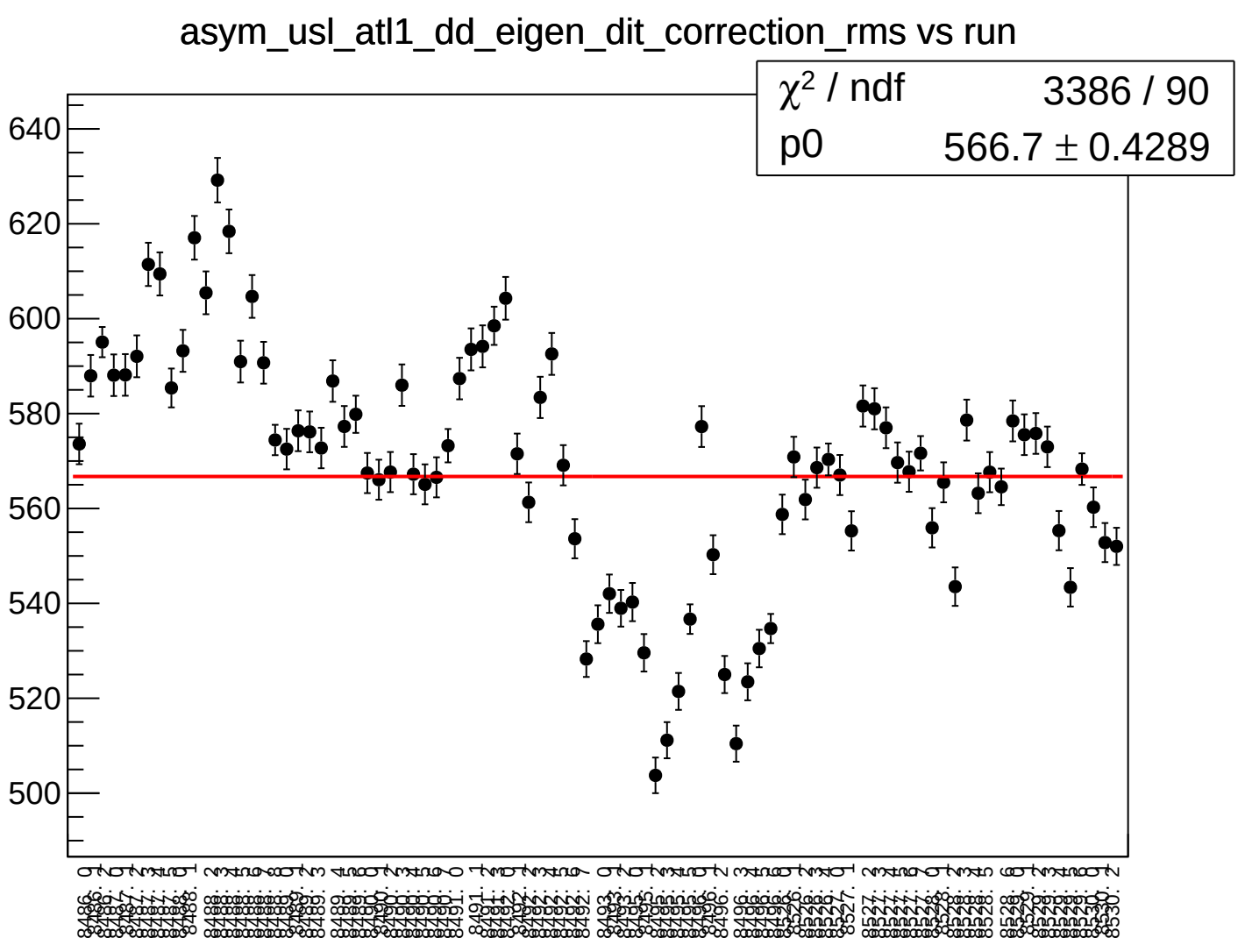

eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 76.51 / 90
p0 −138.6 ± 1171
pull
Entries 91
Mean 96.02
Std Dev 0

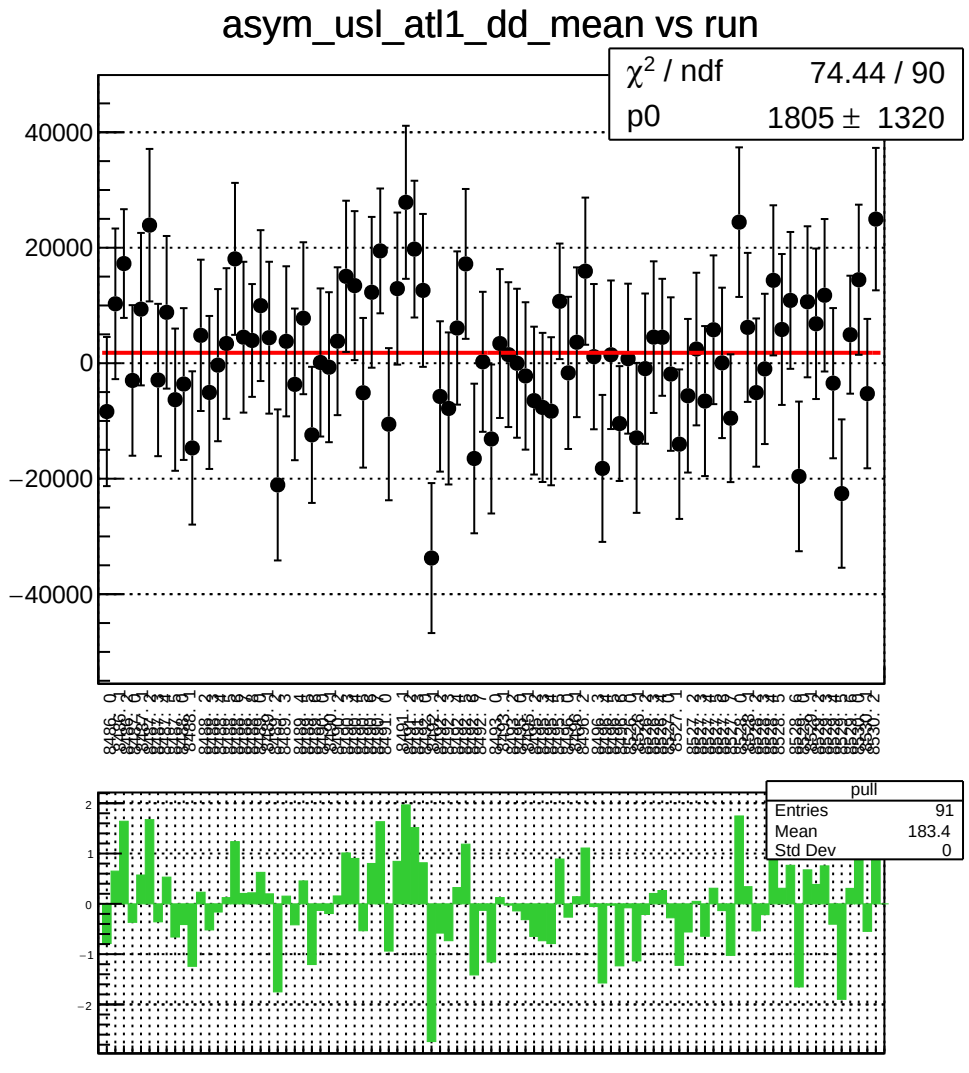

pull1D
Entries 91
Mean −0.008301
Std Dev 0.9169

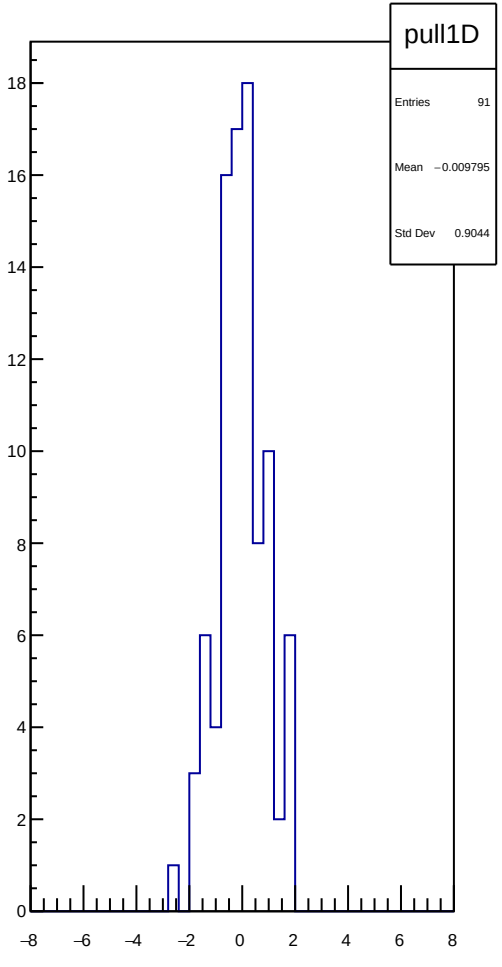

eigen_dit_asym_usl_atl1_dd_rms vs run
χ^2 / ndf 74.89 / 90
p0 1095 ± 0.828
1120
1110
1100
1090
1080
1070

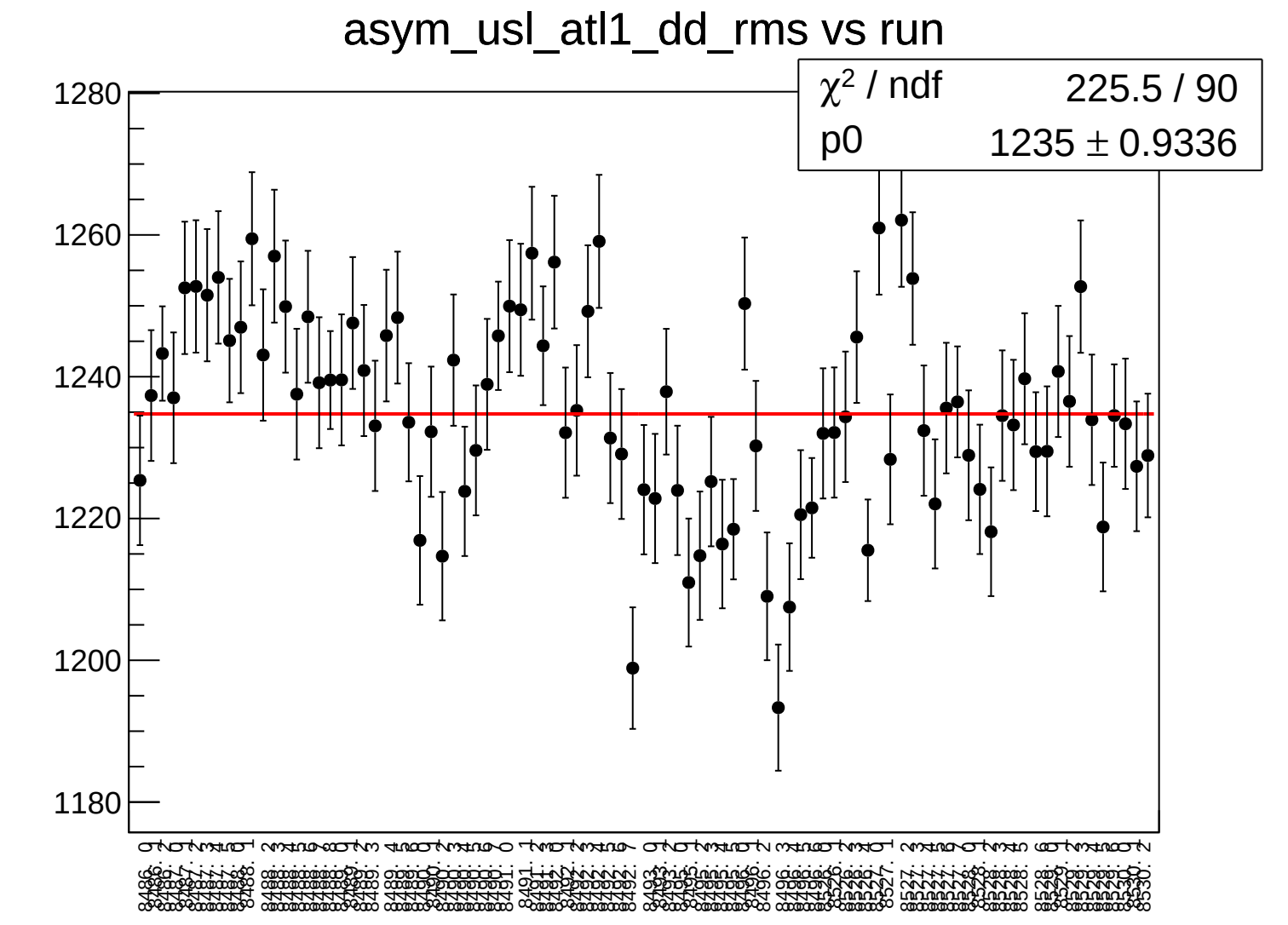

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 70.5 / 90
p0 −1959 ± 606.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 91
Mean 364.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

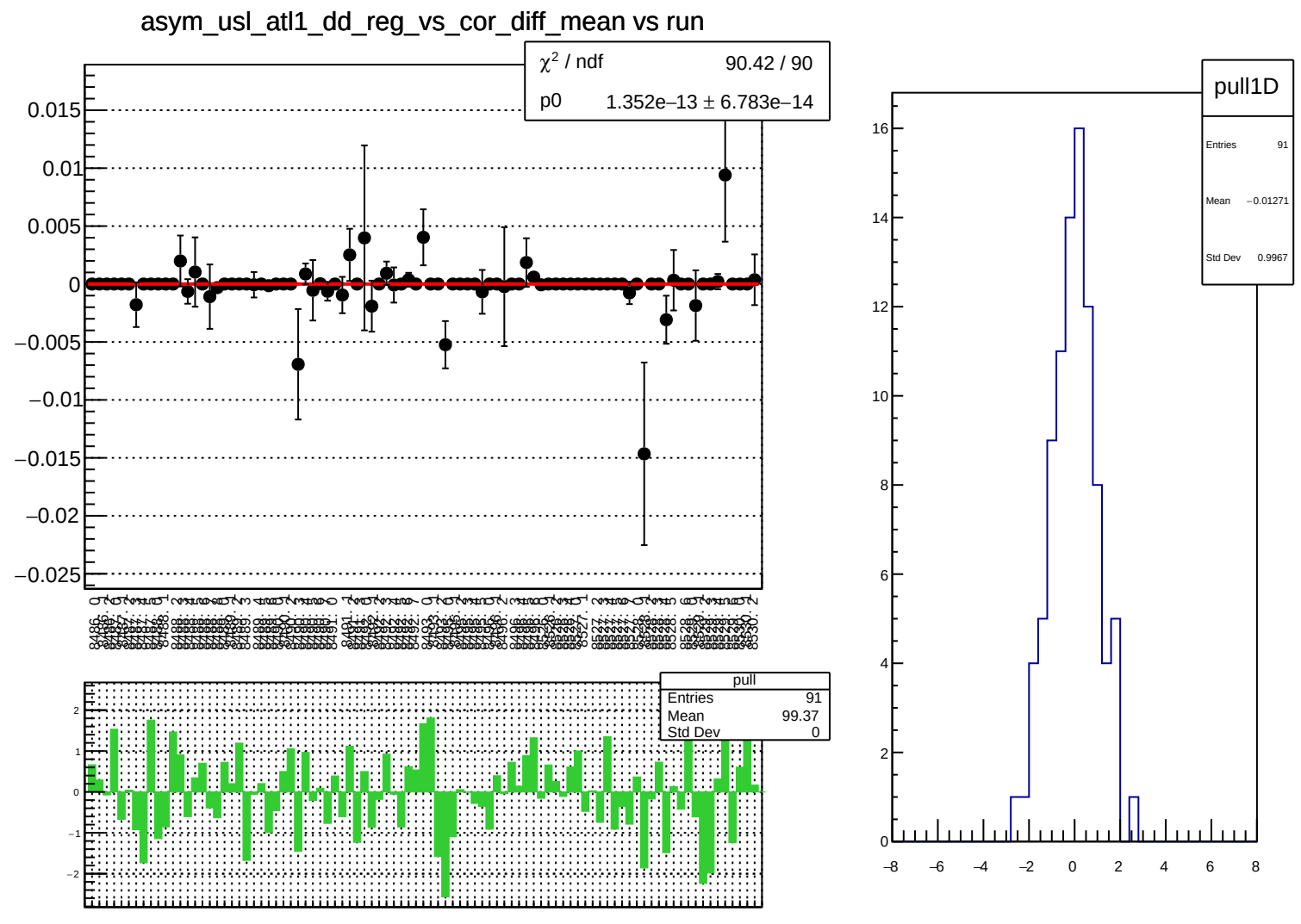

pull1D
Entries 91
Mean 0.006794
Std Dev 0.8802
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

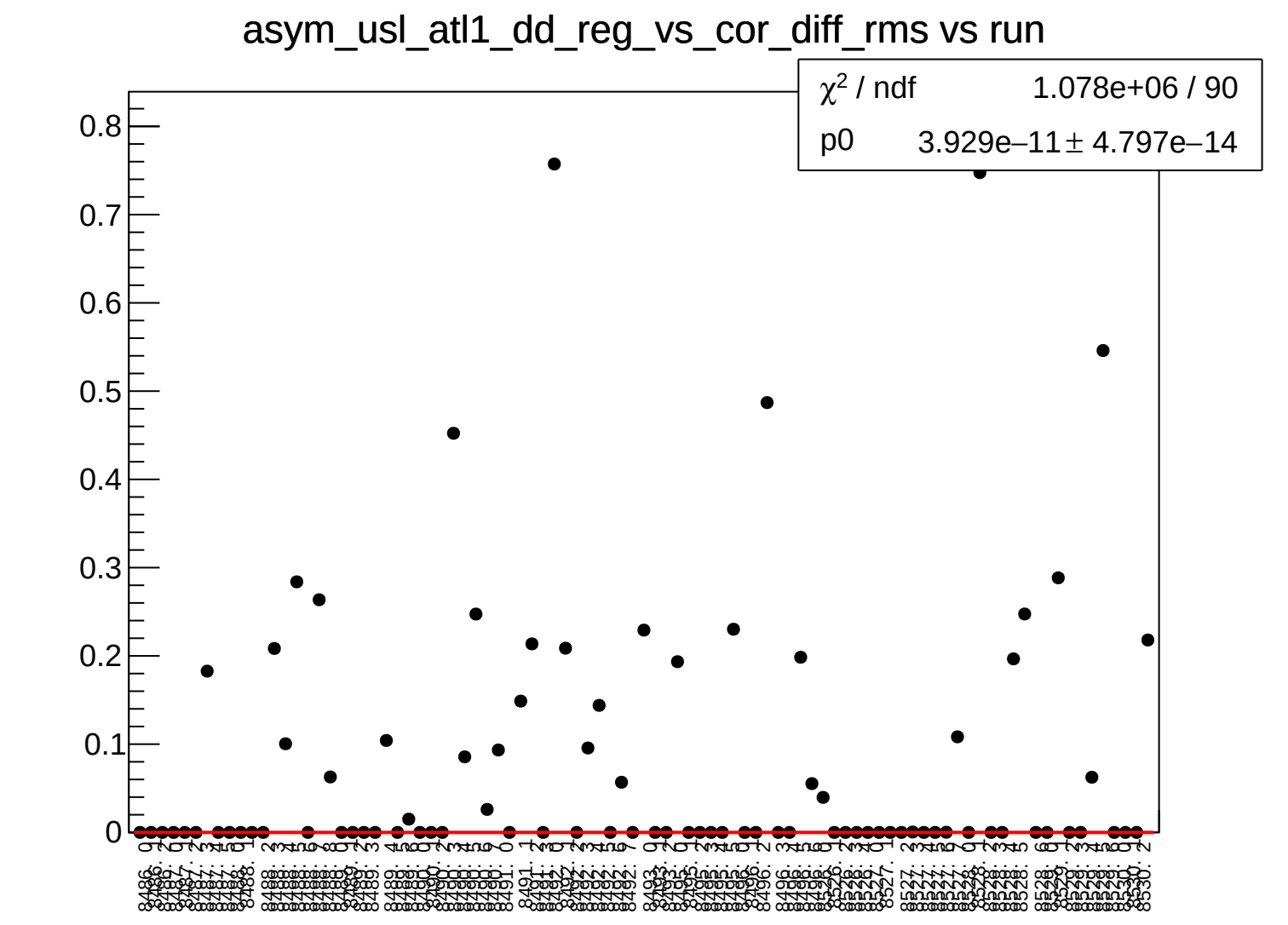

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 3386 / 90
p0 566.7 ± 0.4289
640
620
600
580
560
540
520
500

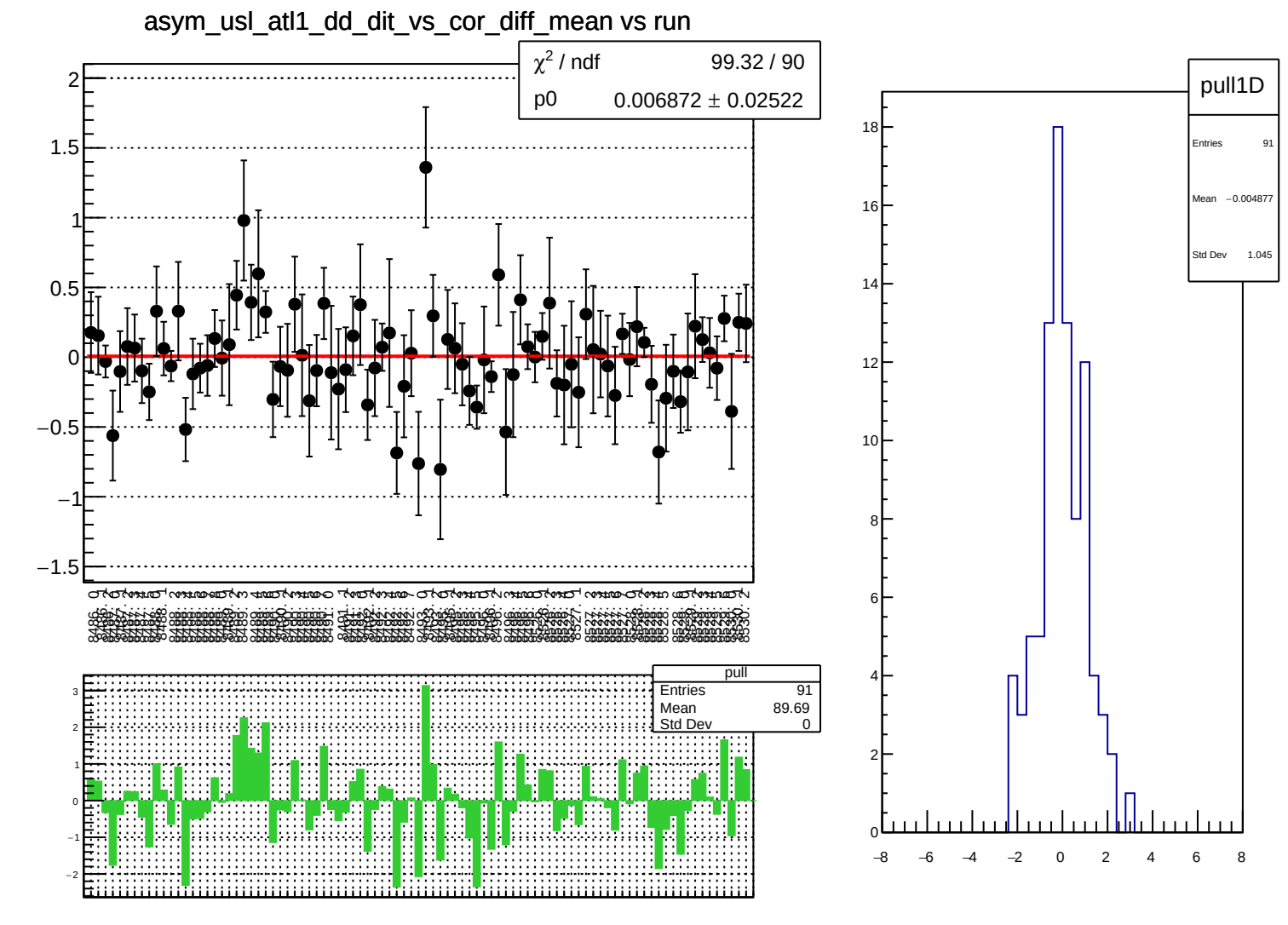

asym_usl_atl1_dd_mean vs run
χ² / ndf 74.44 / 90
p0 1805 ± 1320
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 183.4
Std Dev 0
2
1
0
−1
−2

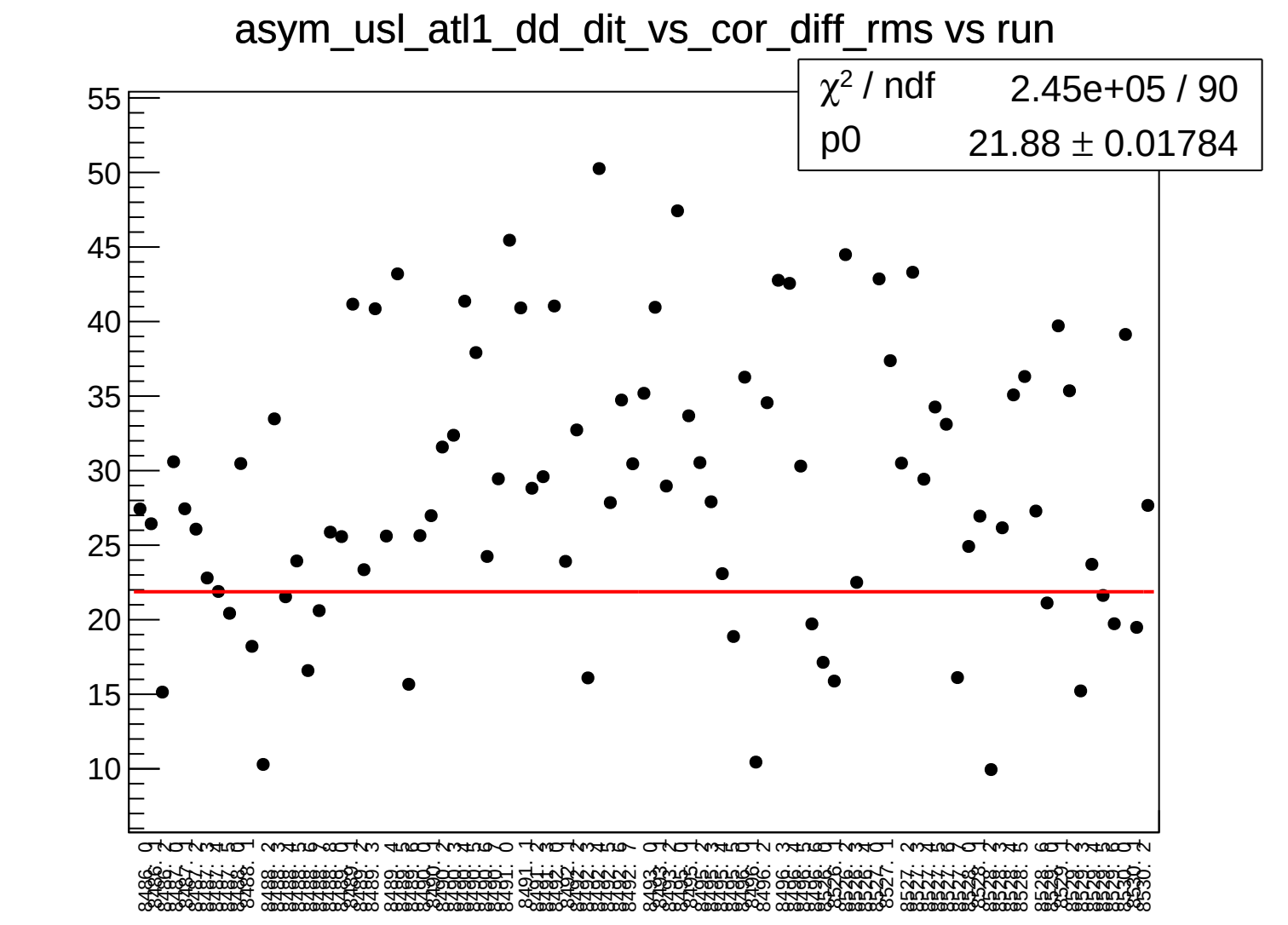

pull1D
Entries 91
Mean −0.009795
Std Dev 0.9044
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

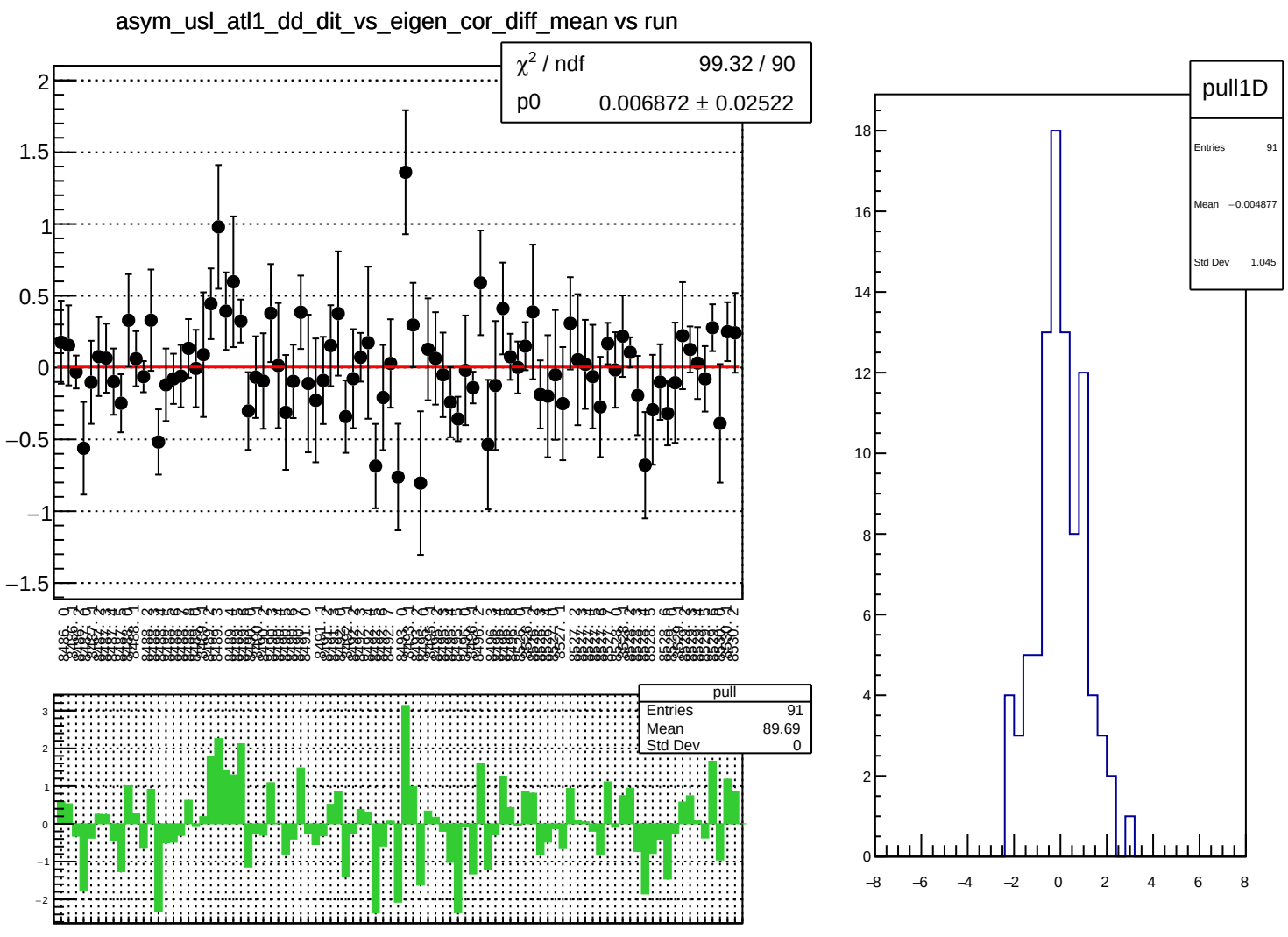

asym_usl_atl1_dd_rms vs run
χ² / ndf 225.5 / 90
p0 1235 ± 0.9336
1280
1260
1240
1220
1200
1180

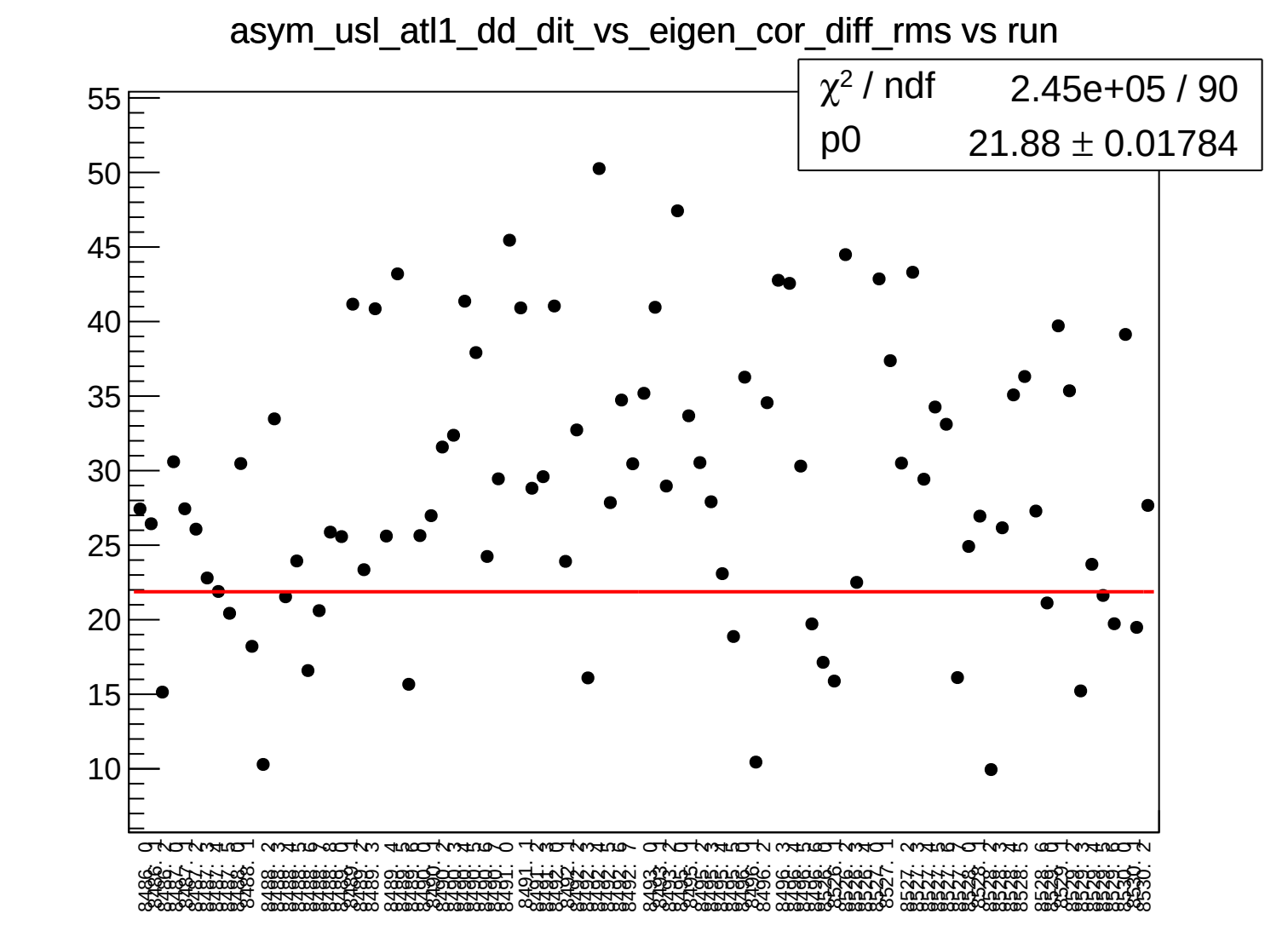

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 90.42 / 90
p0 1.352e−13 ± 6.783e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
pull
Entries 91
Mean 99.37
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.01271
Std Dev 0.9967
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

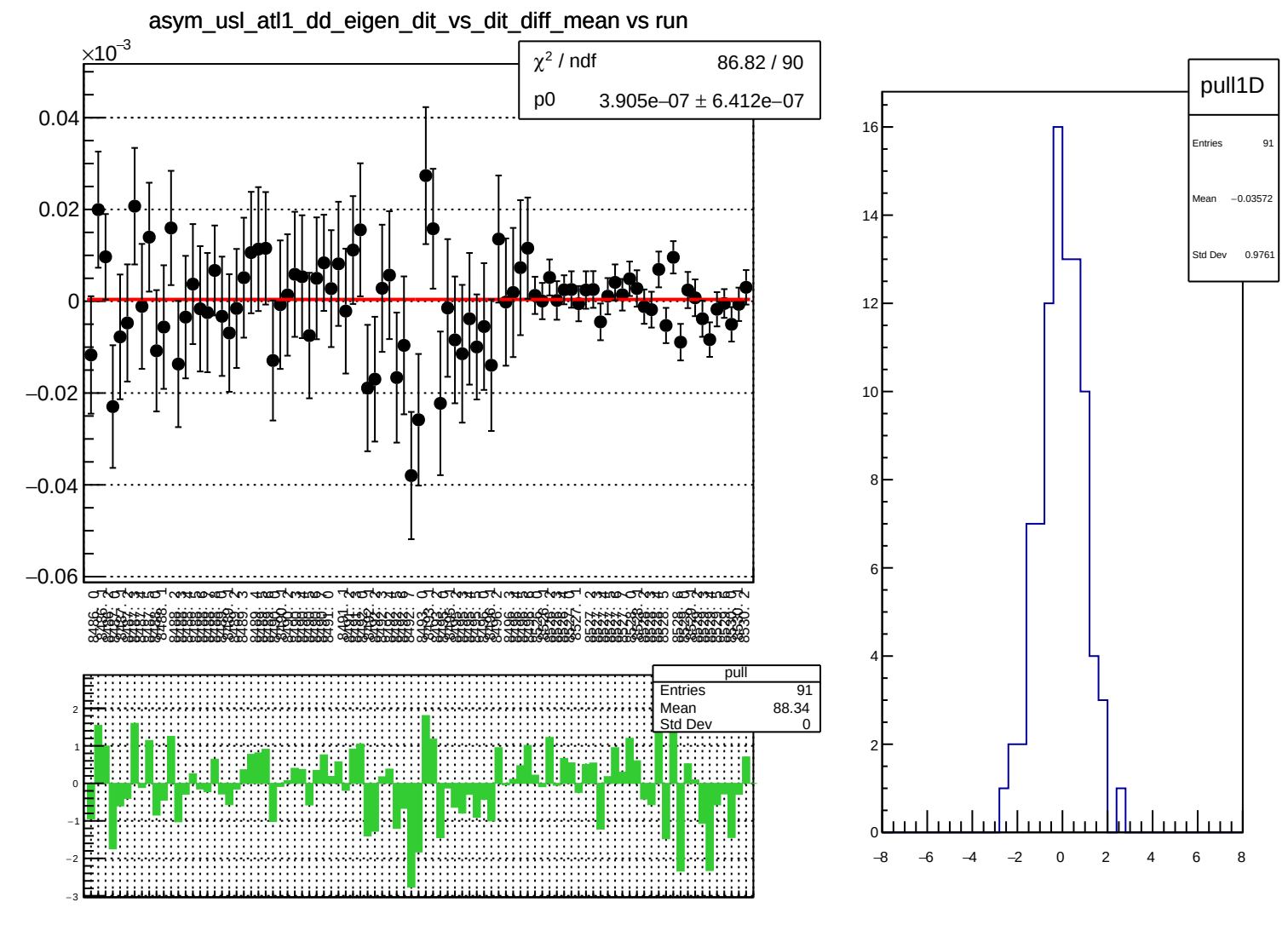

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.078e+06 / 90
p0 3.929e−11 ± 4.797e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

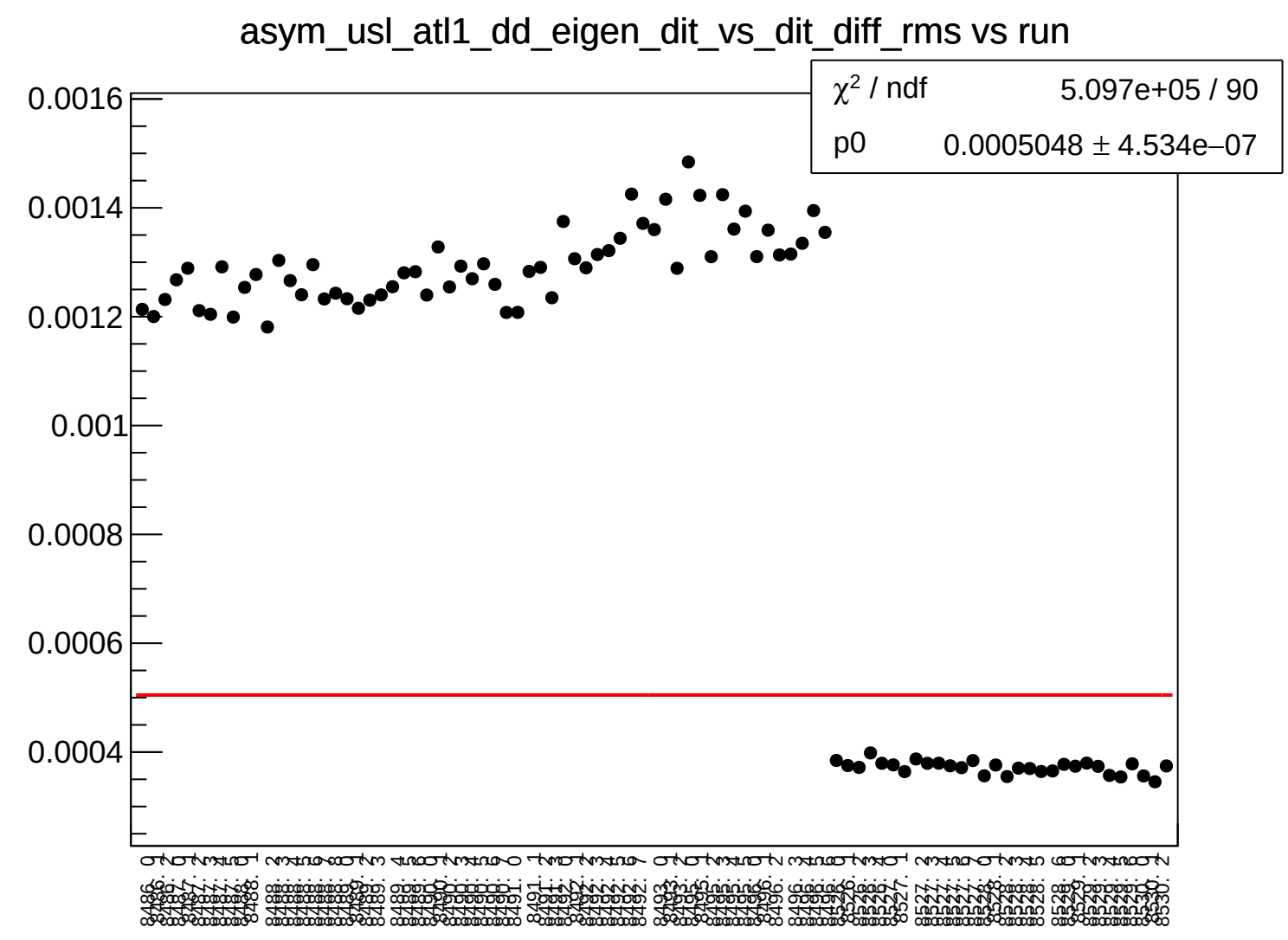

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 99.32 / 90
p0 0.006872 ± 0.02522
pull
Entries 91
Mean 89.69
Std Dev 0
pull1D
Entries 91
Mean −0.004877
Std Dev 1.045

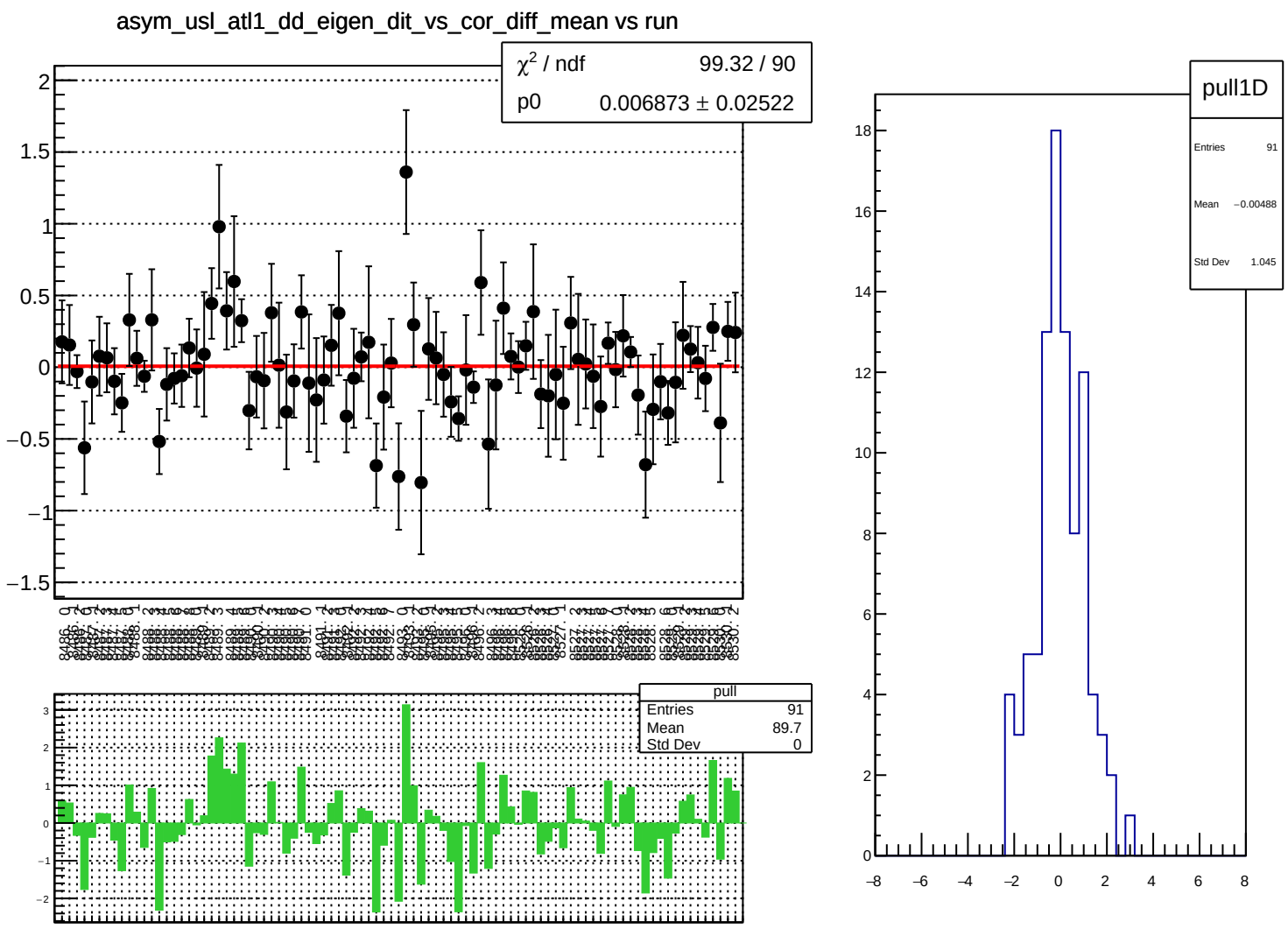

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.45e+05 / 90
p0 21.88 ± 0.01784
55
50
45
40
35
30
25
20
15
10

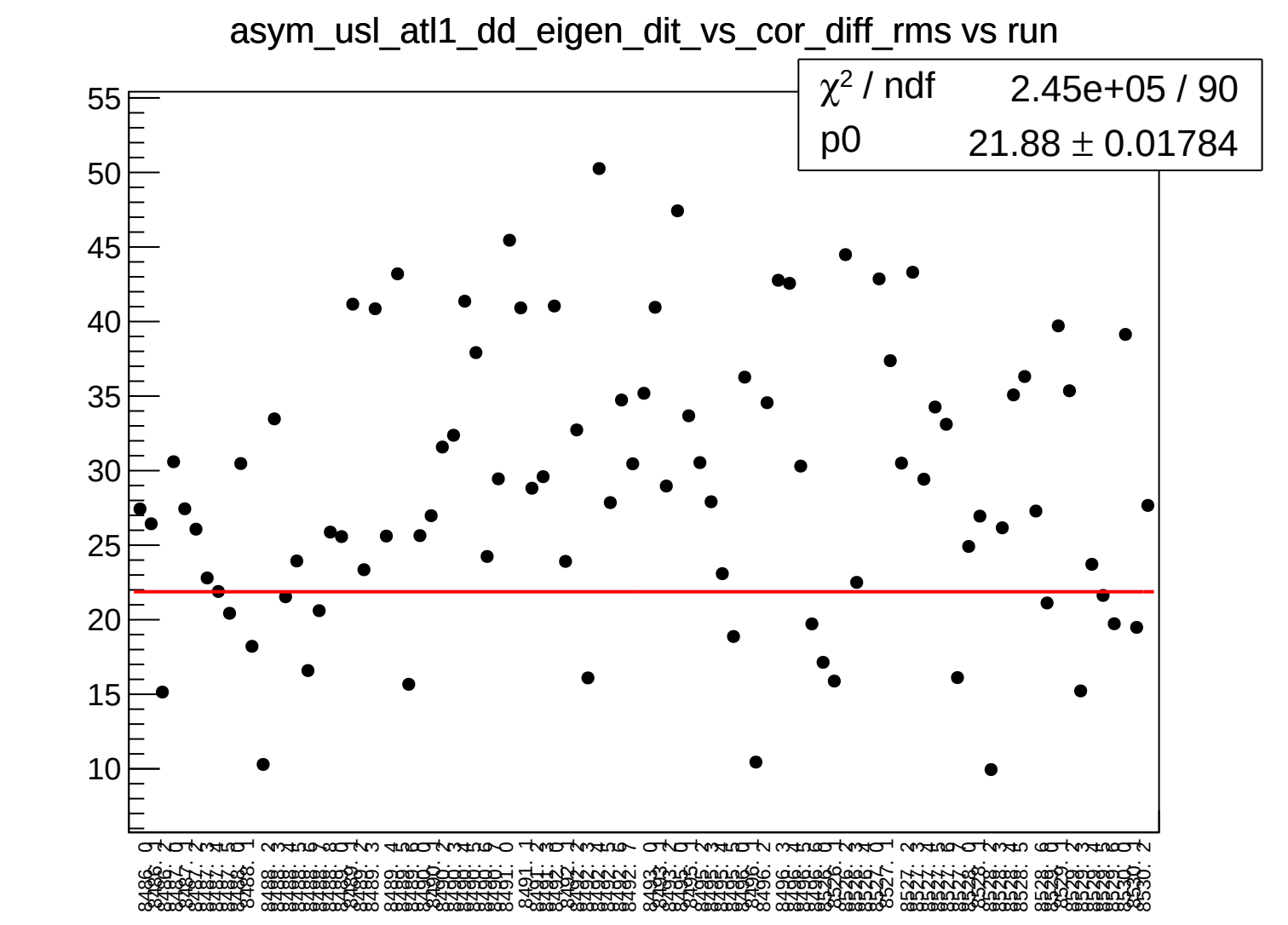

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.32 / 90
p0 0.006872 ± 0.02522
pull
Entries 91
Mean 89.69
Std Dev 0
pull1D
Entries 91
Mean −0.004877
Std Dev 1.045

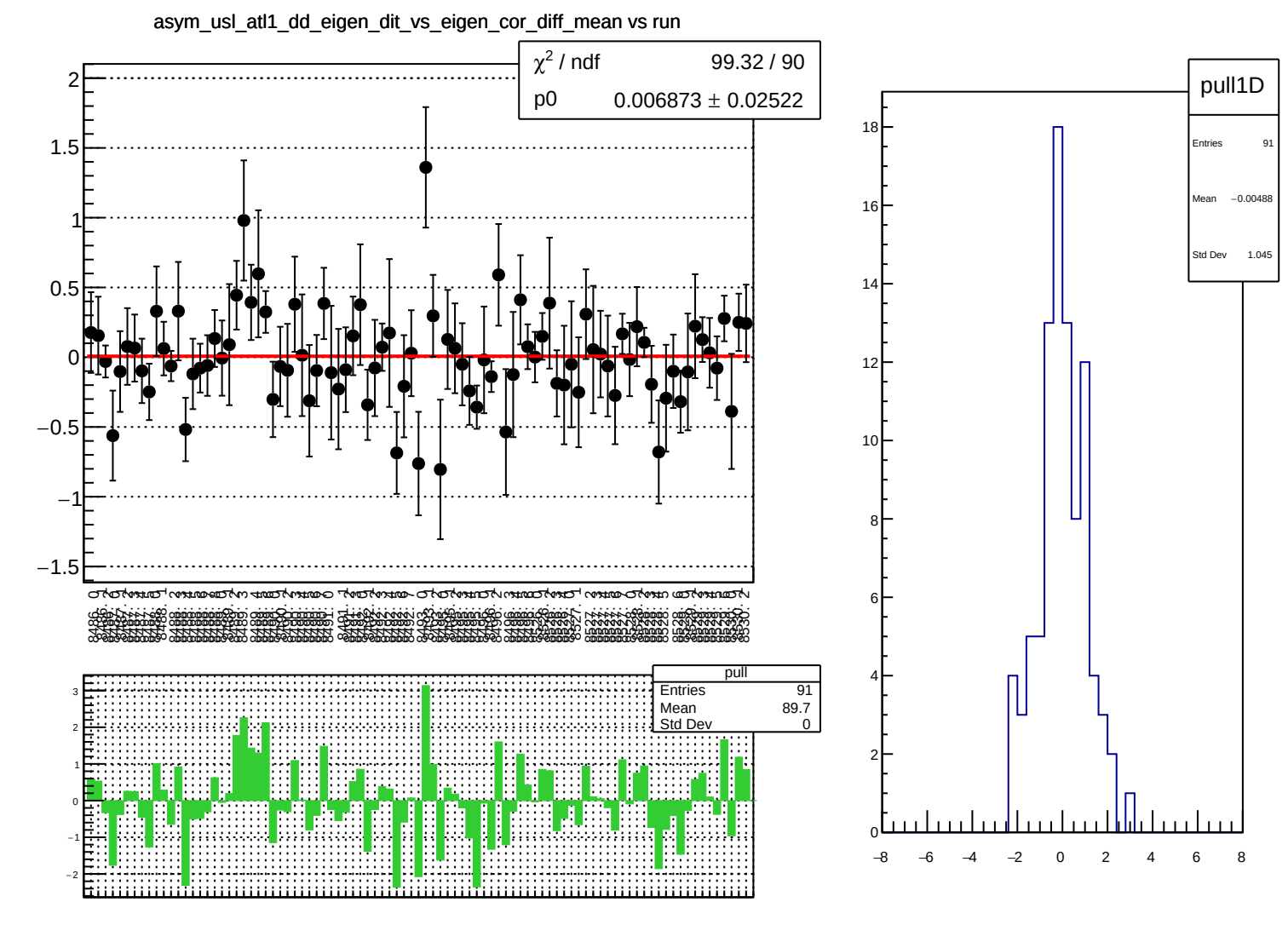

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.45e+05 / 90
p0 21.88 ± 0.01784
55
50
45
40
35
30
25
20
15
10

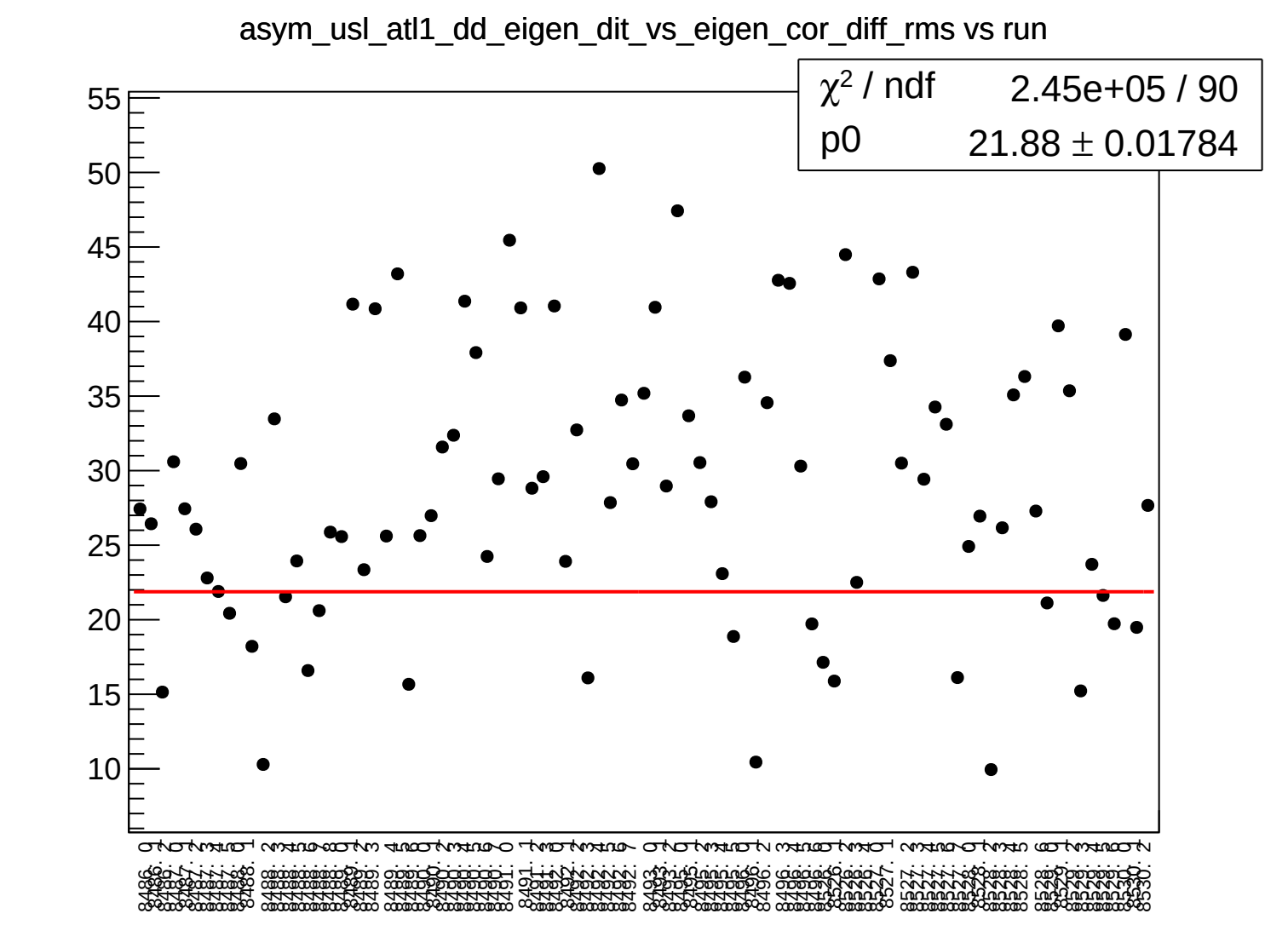

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.82 / 90
p0 3.905e−07 ± 6.412e−07
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 91
Mean 88.34
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean −0.03572
Std Dev 0.9761
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

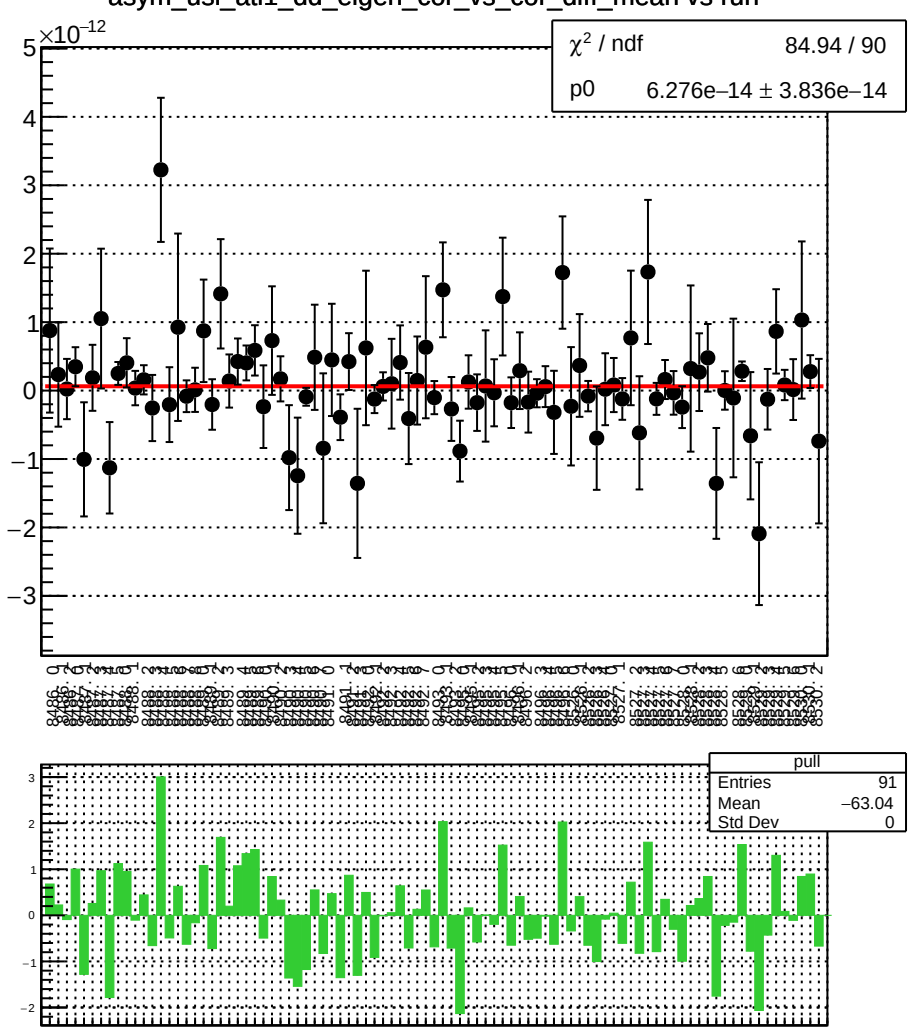

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.097e+05 / 90
p0 0.0005048 ± 4.534e−07
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004

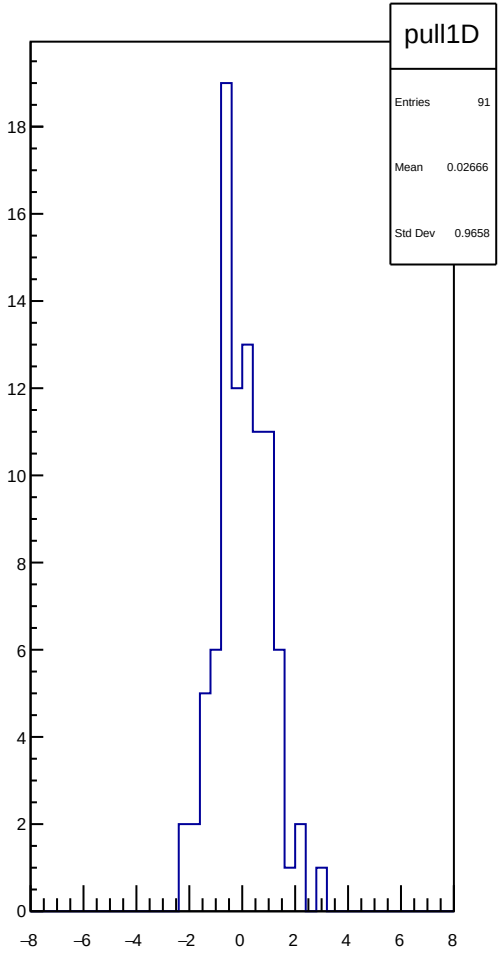

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.32 / 90
p0 0.006873 ± 0.02522
pull
Entries 91
Mean 89.7
Std Dev 0
pull1D
Entries 91
Mean −0.00488
Std Dev 1.045

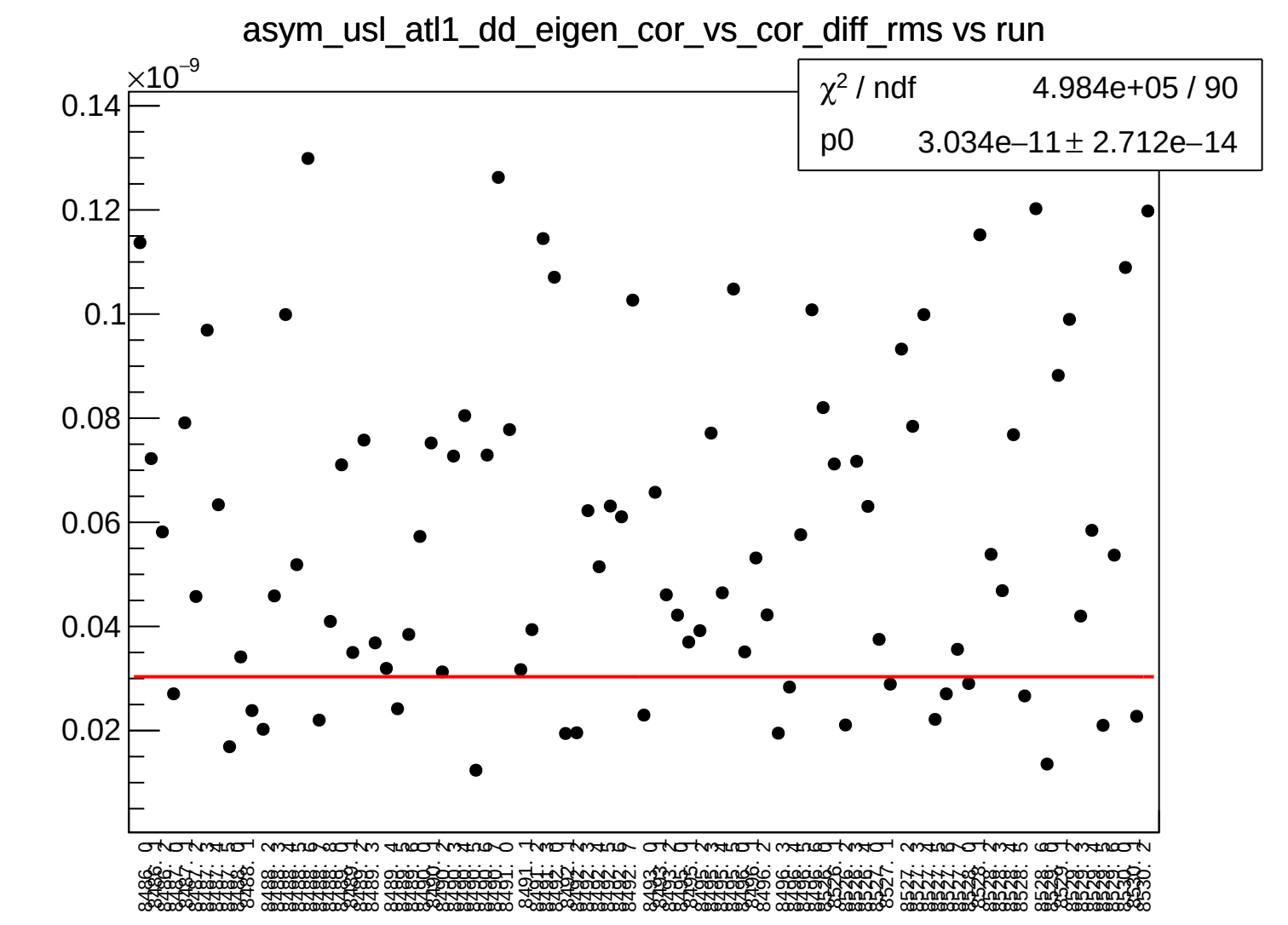

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.45e+05 / 90
p0 21.88 ± 0.01784
55
50
45
40
35
30
25
20
15
10

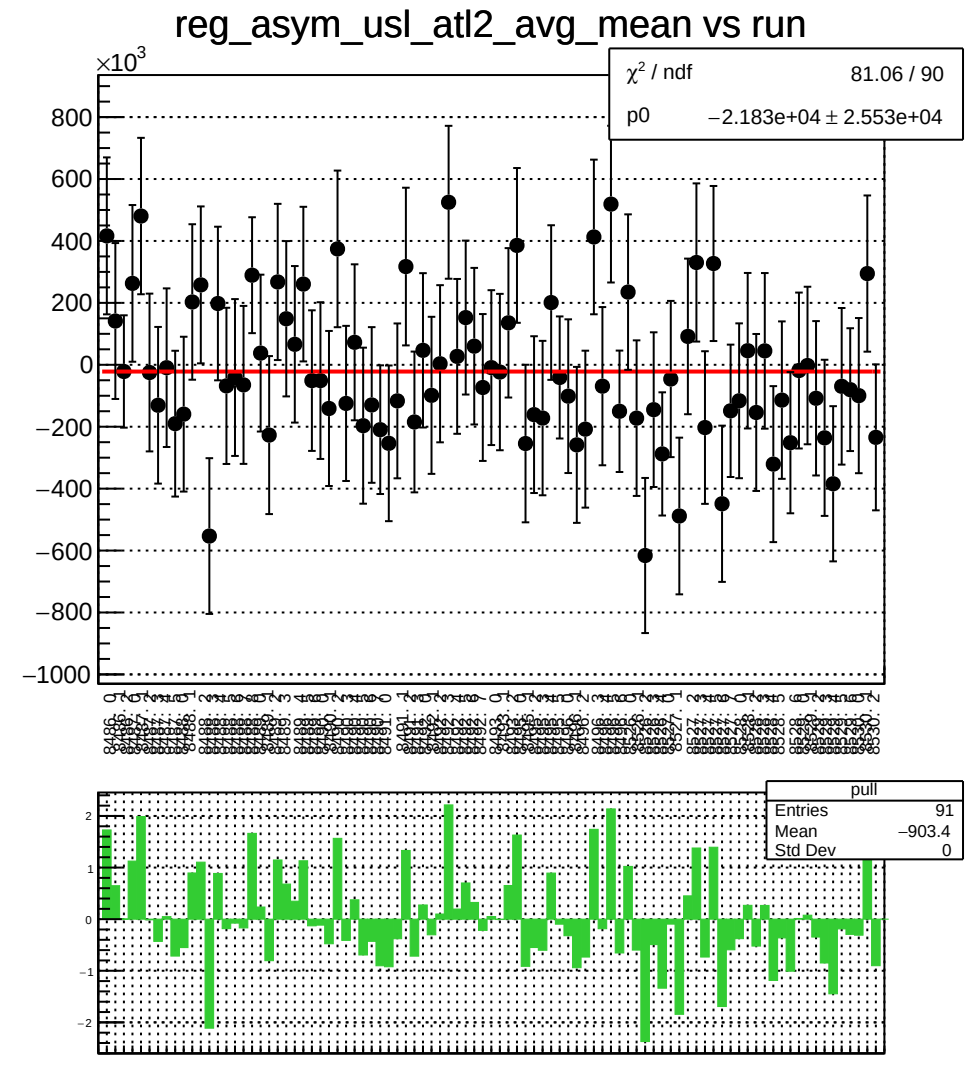

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.32 / 90
p0 0.006873 ± 0.02522
pull
Entries 91
Mean 89.7
Std Dev 0
pull1D
Entries 91
Mean −0.00488
Std Dev 1.045

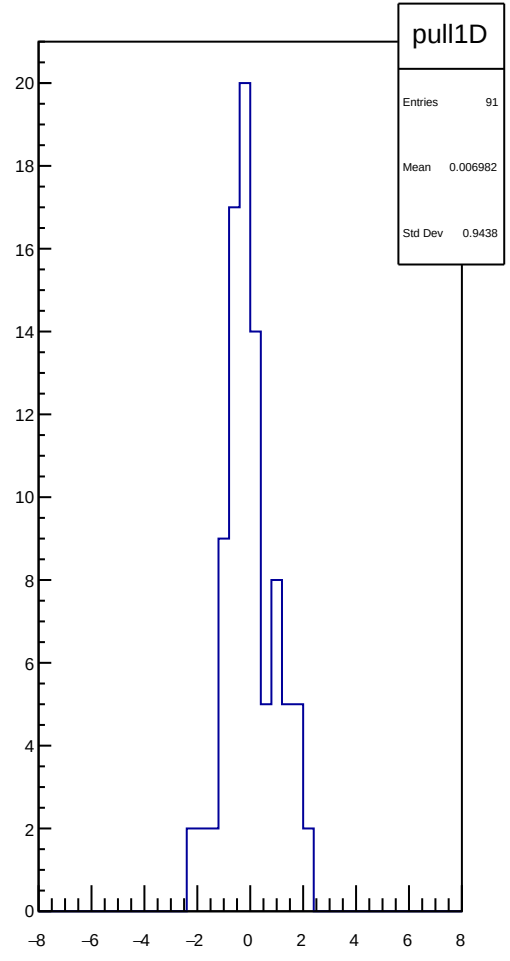

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.45e+05 / 90
p0 21.88 ± 0.01784
55
50
45
40
35
30
25
20
15
10

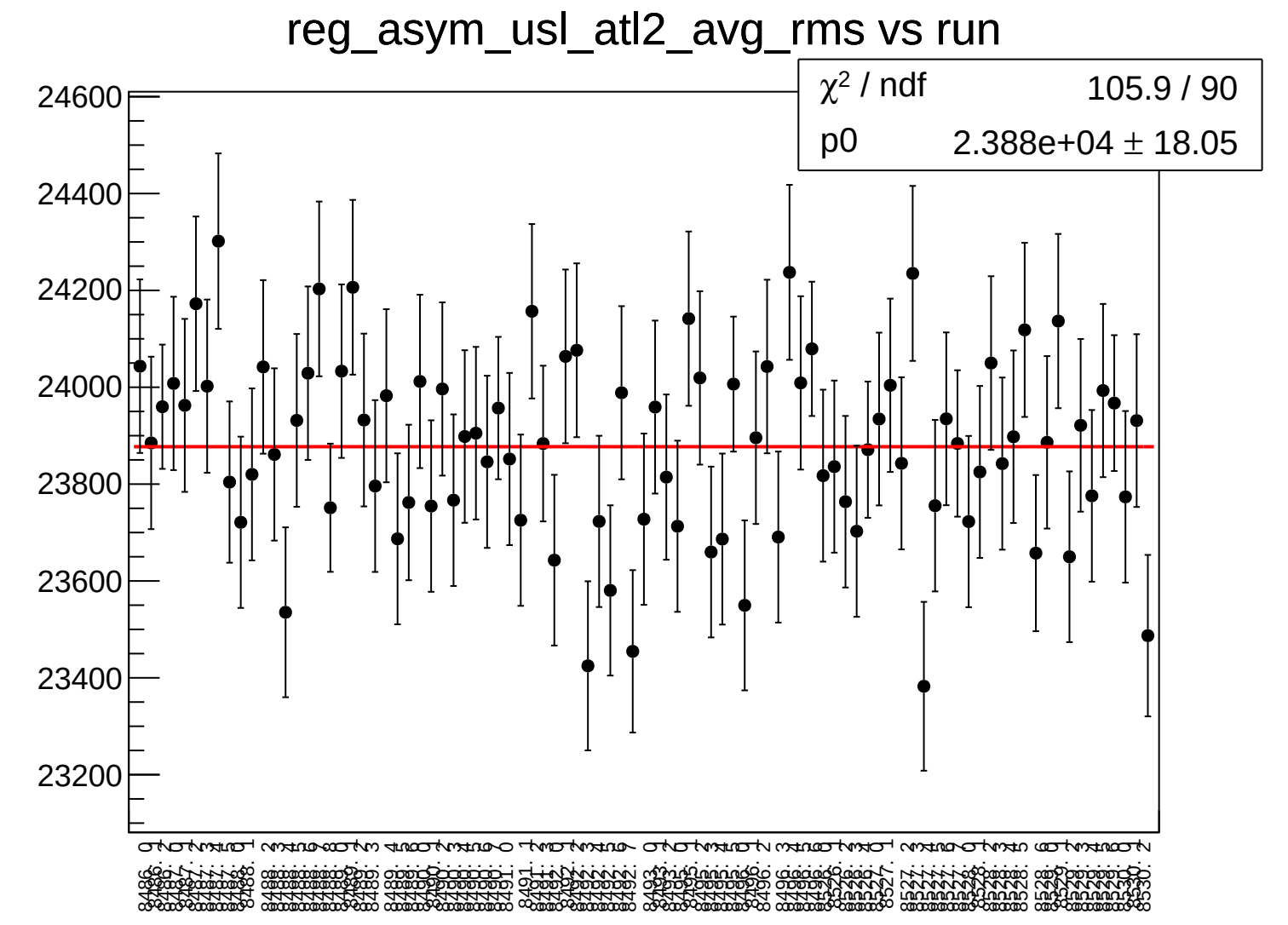

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.94 / 90
p0 6.276e−14 ± 3.836e−14
pull
Entries 91
Mean −63.04
Std Dev 0

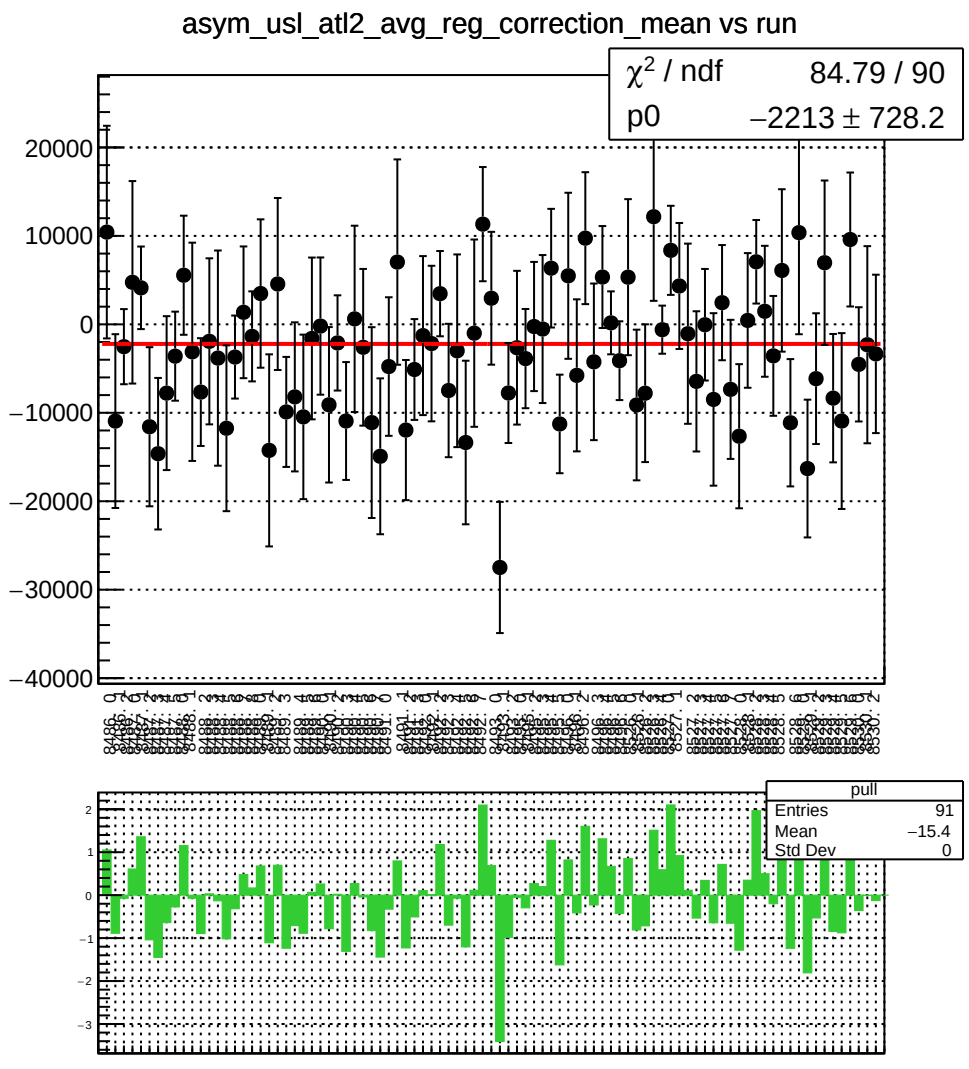

pull1D
Entries 91
Mean 0.02666
Std Dev 0.9658

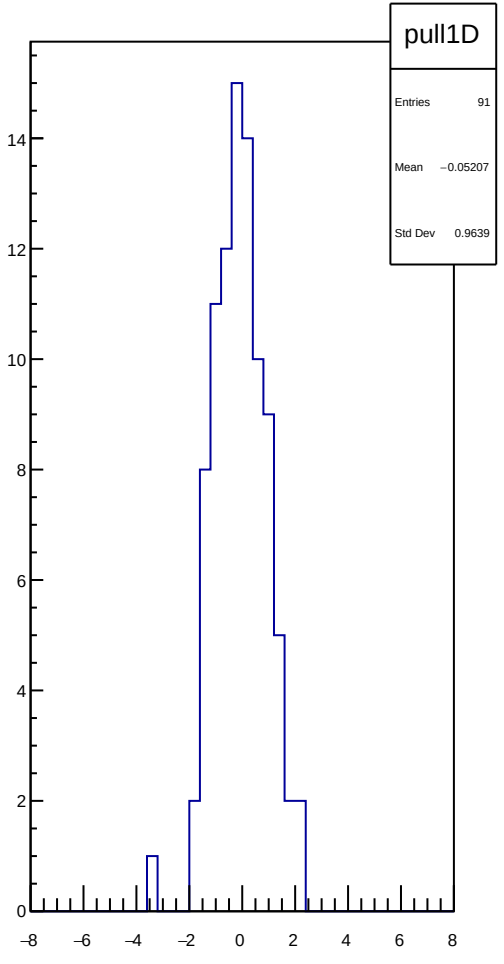

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.984e+05 / 90
p0 3.034e−11 ± 2.712e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

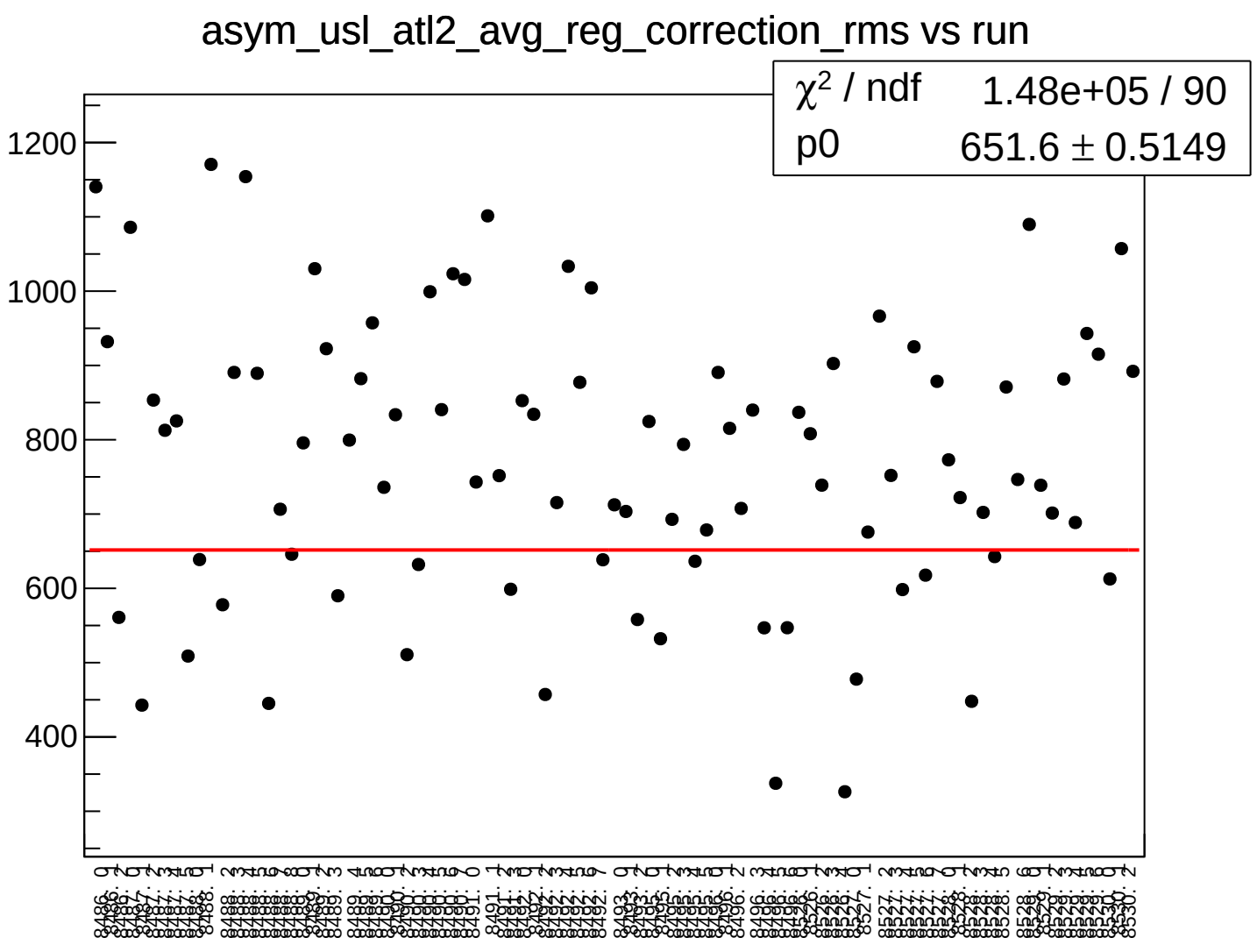

reg_asym_usl_atl2_avg_mean vs run
×10^3
χ² / ndf 81.06 / 90
p0 −2.183e+04 ± 2.553e+04
pull
Entries 91
Mean −903.4
Std Dev 0

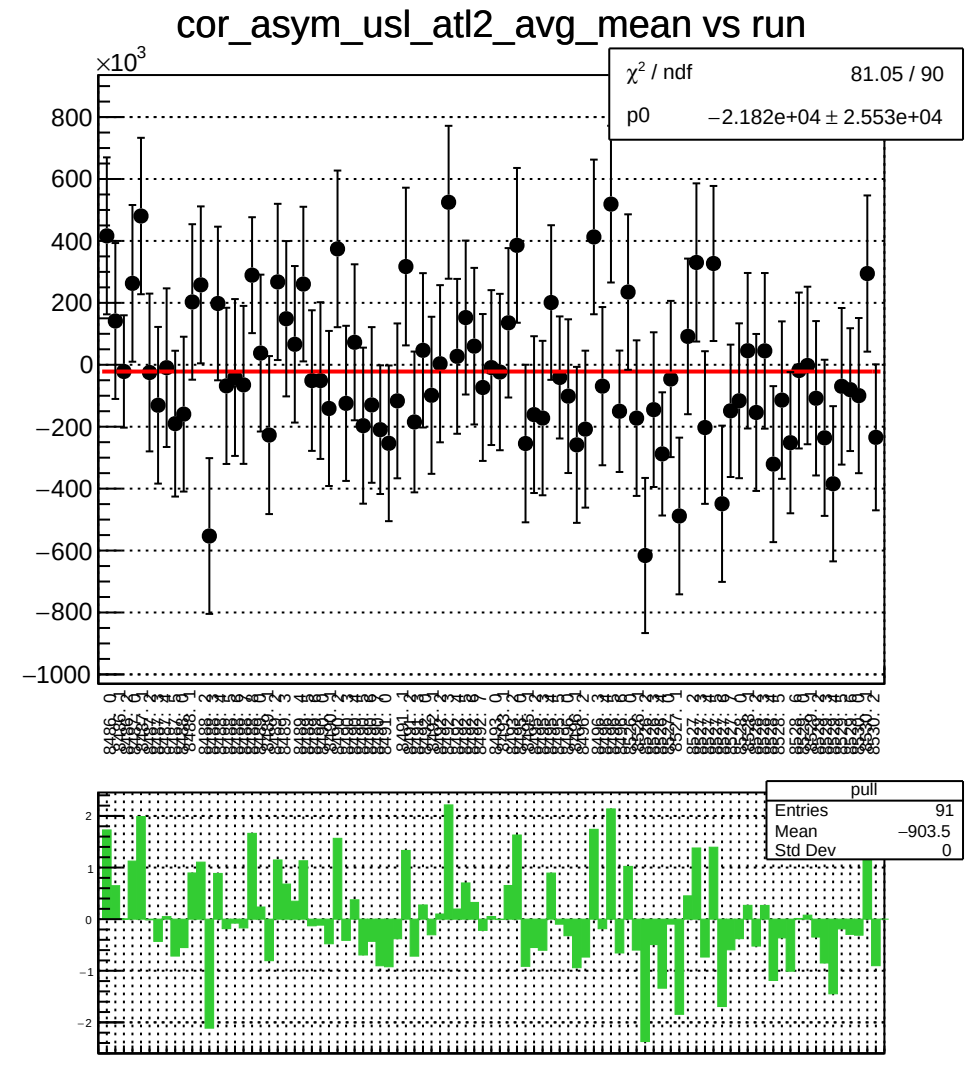

pull1D
Entries 91
Mean 0.006982
Std Dev 0.9438

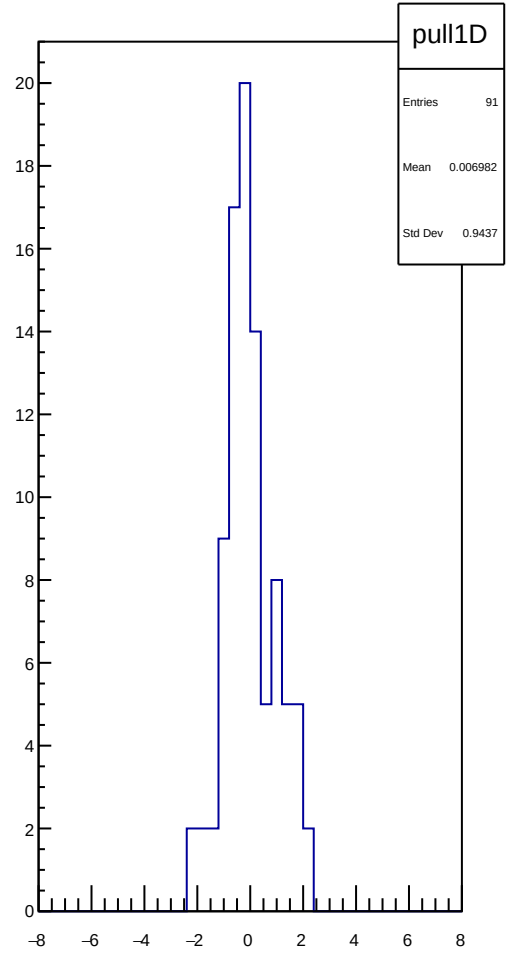

reg_asym_usl_atl2_avg_rms vs run
χ² / ndf 105.9 / 90
p0 2.388e+04 ± 18.05
24600
24400
24200
24000
23800
23600
23400
23200

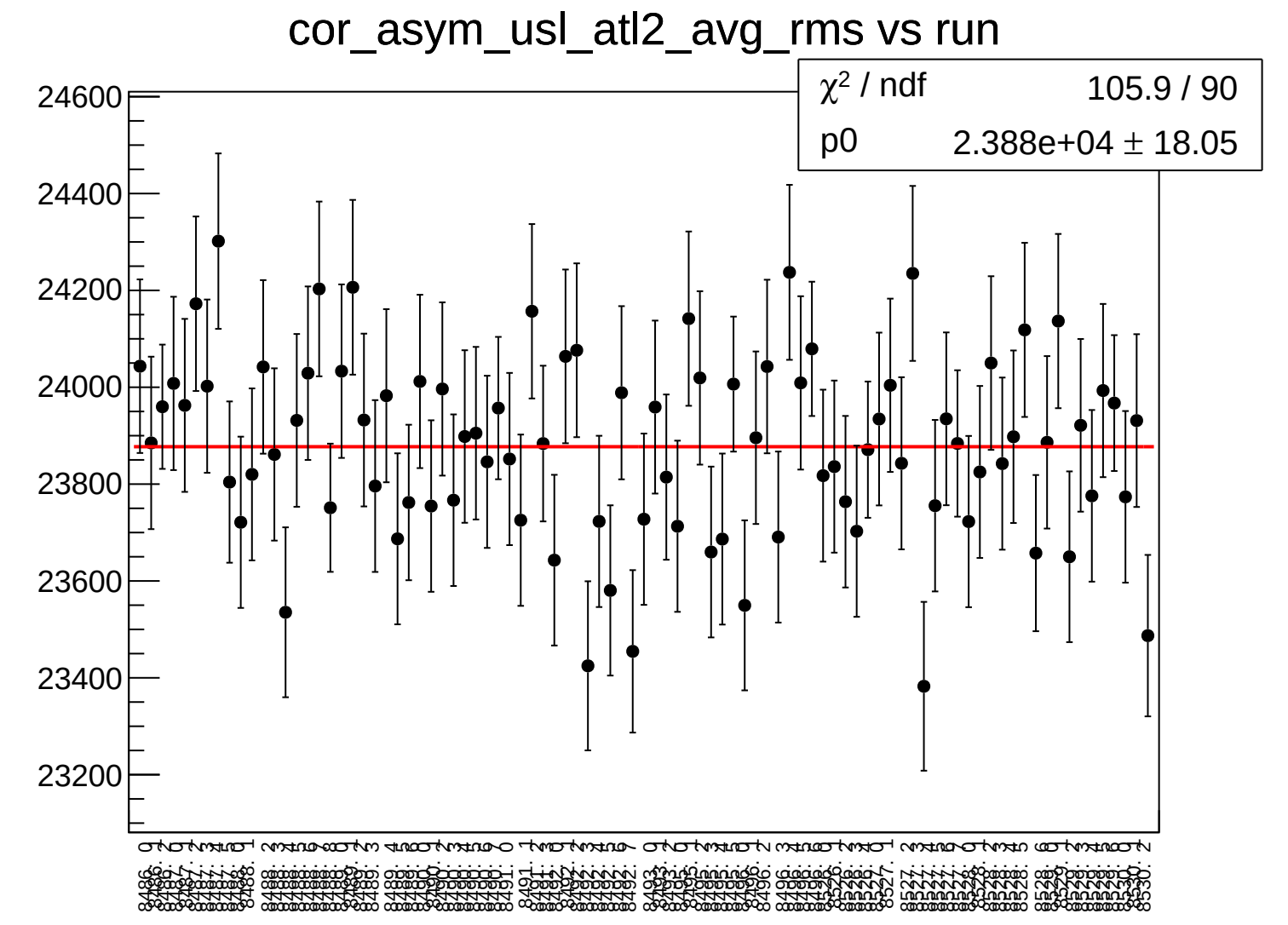

asym_usl_atl2_avg_reg_correction_mean vs run
χ² / ndf 84.79 / 90
p0 −2213 ± 728.2
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean −15.4
Std Dev 0
2
1
0
−1
−2
−3

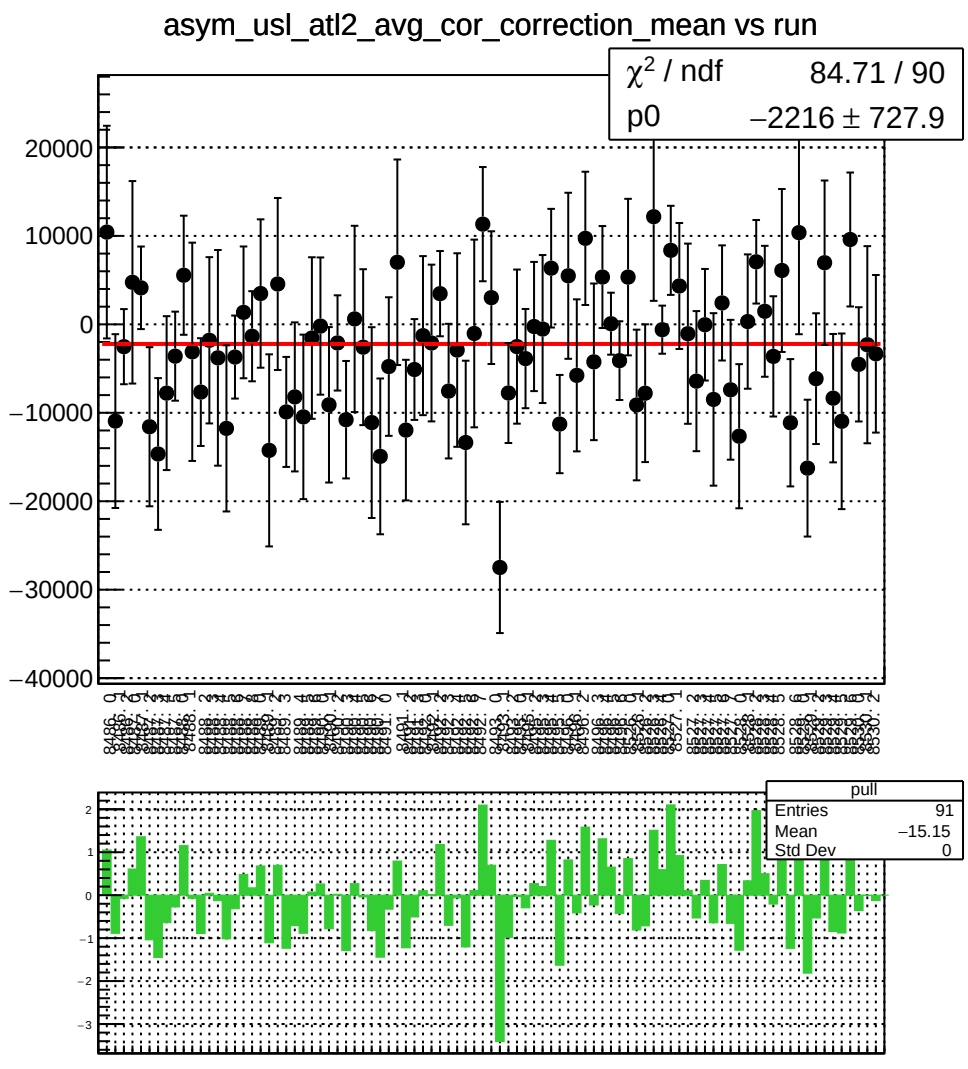

pull1D
Entries 91
Mean −0.05207
Std Dev 0.9639
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

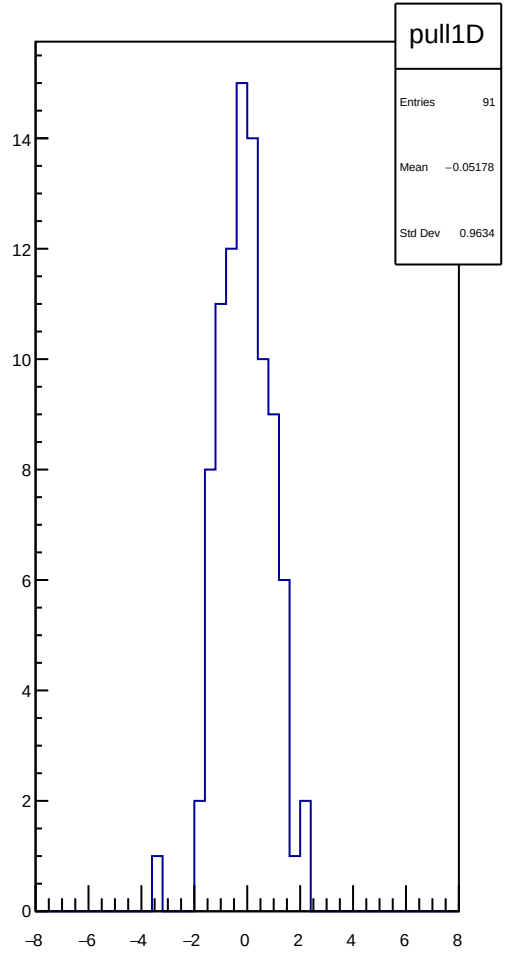

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 1.48e+05 / 90
p0 651.6 ± 0.5149
1200
1000
800
600
400

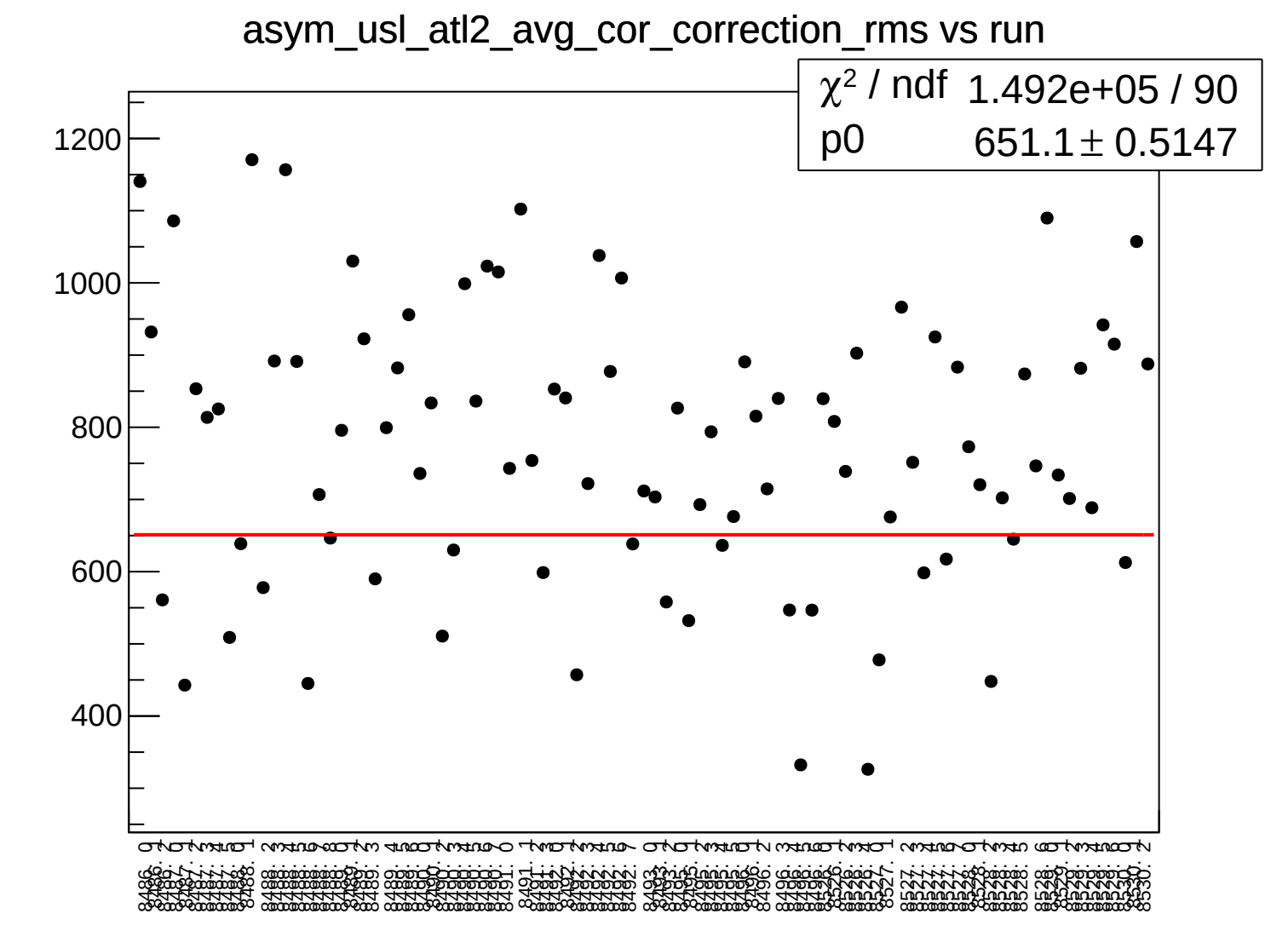

cor_asym_usl_atl2_avg_mean vs run
×10^3
χ² / ndf 81.05 / 90
p0 −2.182e+04 ± 2.553e+04
pull
Entries 91
Mean −903.5
Std Dev 0

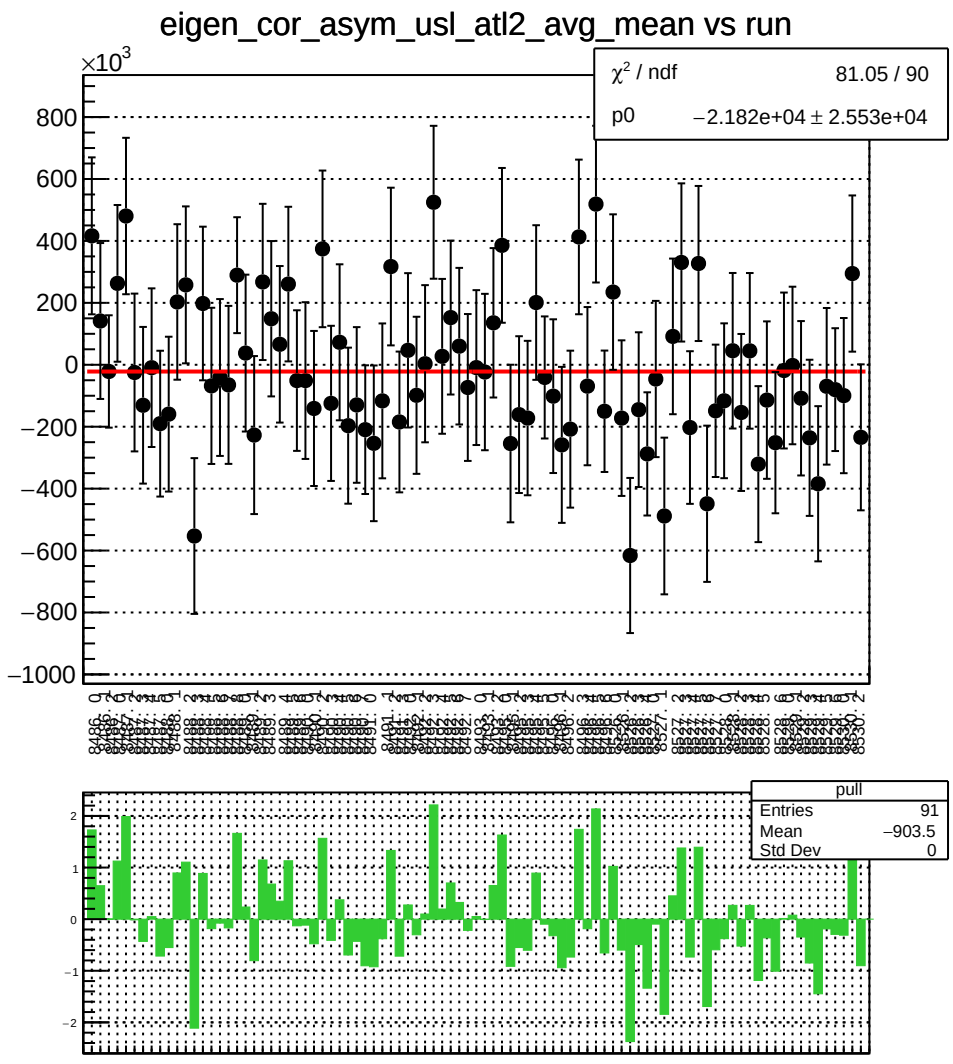

pull1D
Entries 91
Mean 0.006982
Std Dev 0.9437

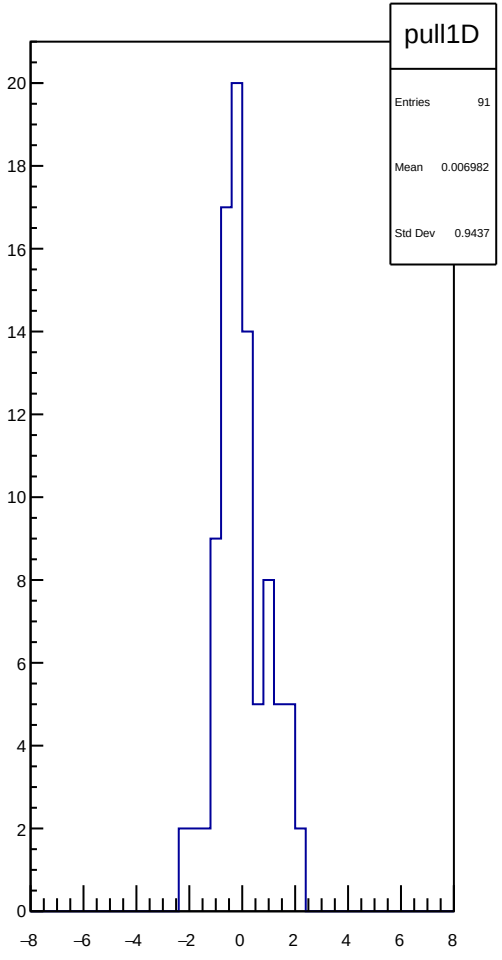

cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 105.9 / 90
p0 2.388e+04 ± 18.05
24600
24400
24200
24000
23800
23600
23400
23200

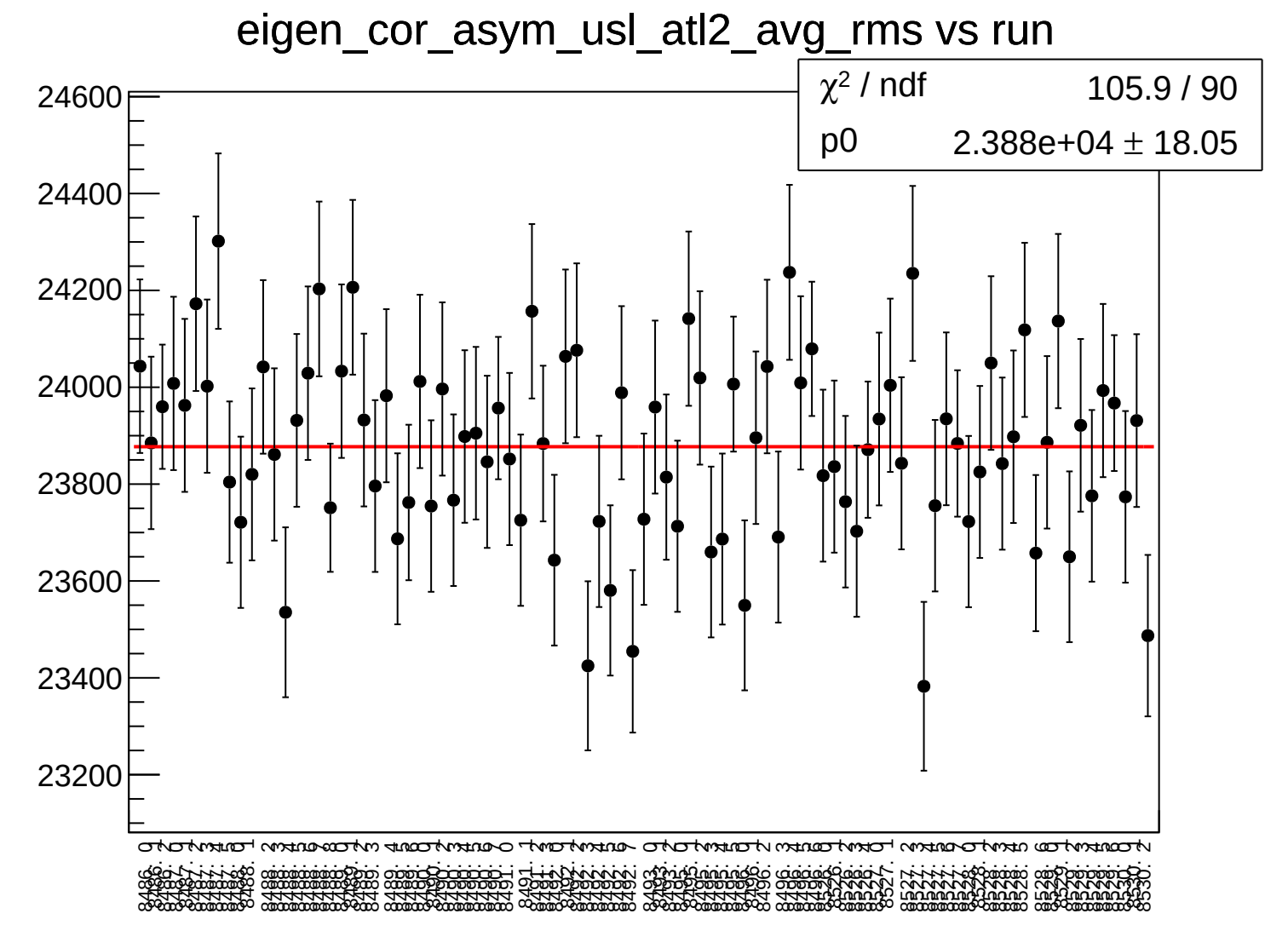

asym_usl_atl2_avg_cor_correction_mean vs run
χ² / ndf 84.71 / 90
p0 −2216 ± 727.9
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean −15.15
Std Dev 0
2
1
0
−1
−2
−3

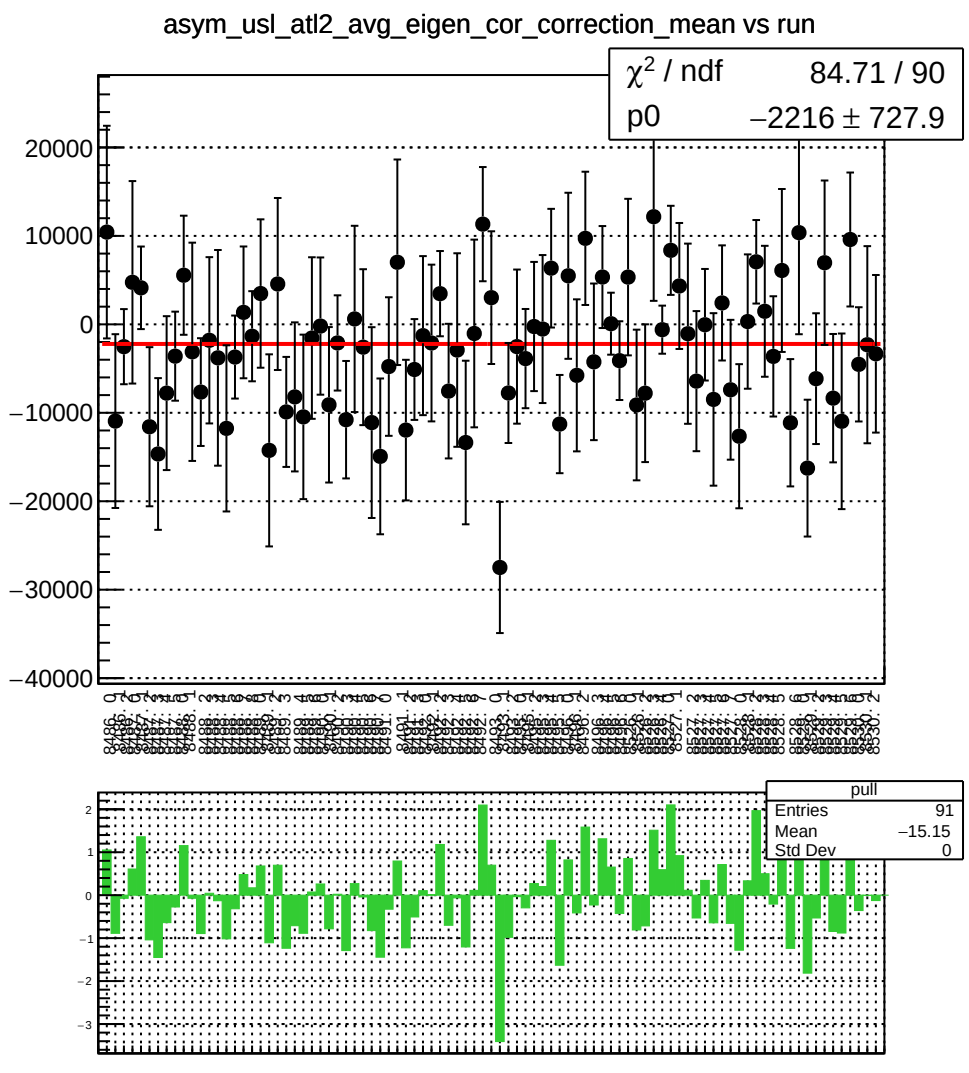

pull1D
Entries 91
Mean −0.05178
Std Dev 0.9634
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

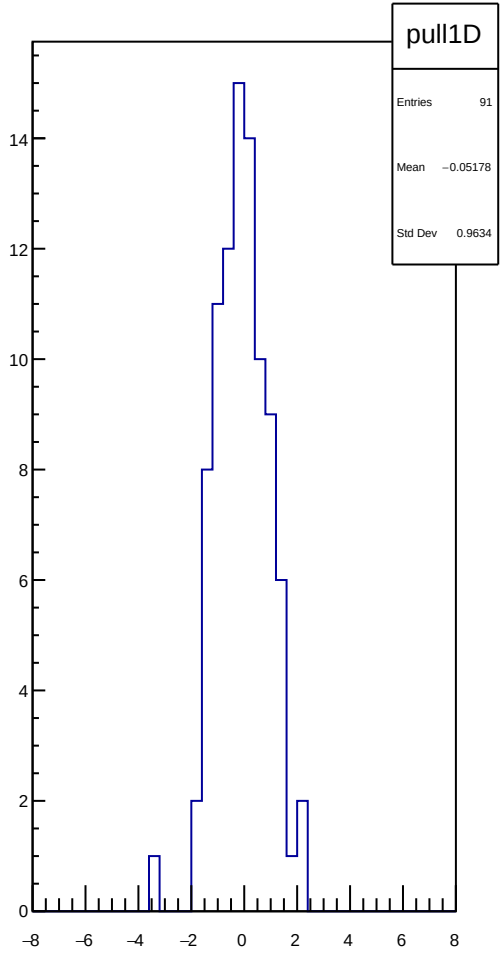

asym_usl_atl2_avg_cor_correction_rms vs run
χ² / ndf 1.492e+05 / 90
p0 651.1 ± 0.5147
1200
1000
800
600
400

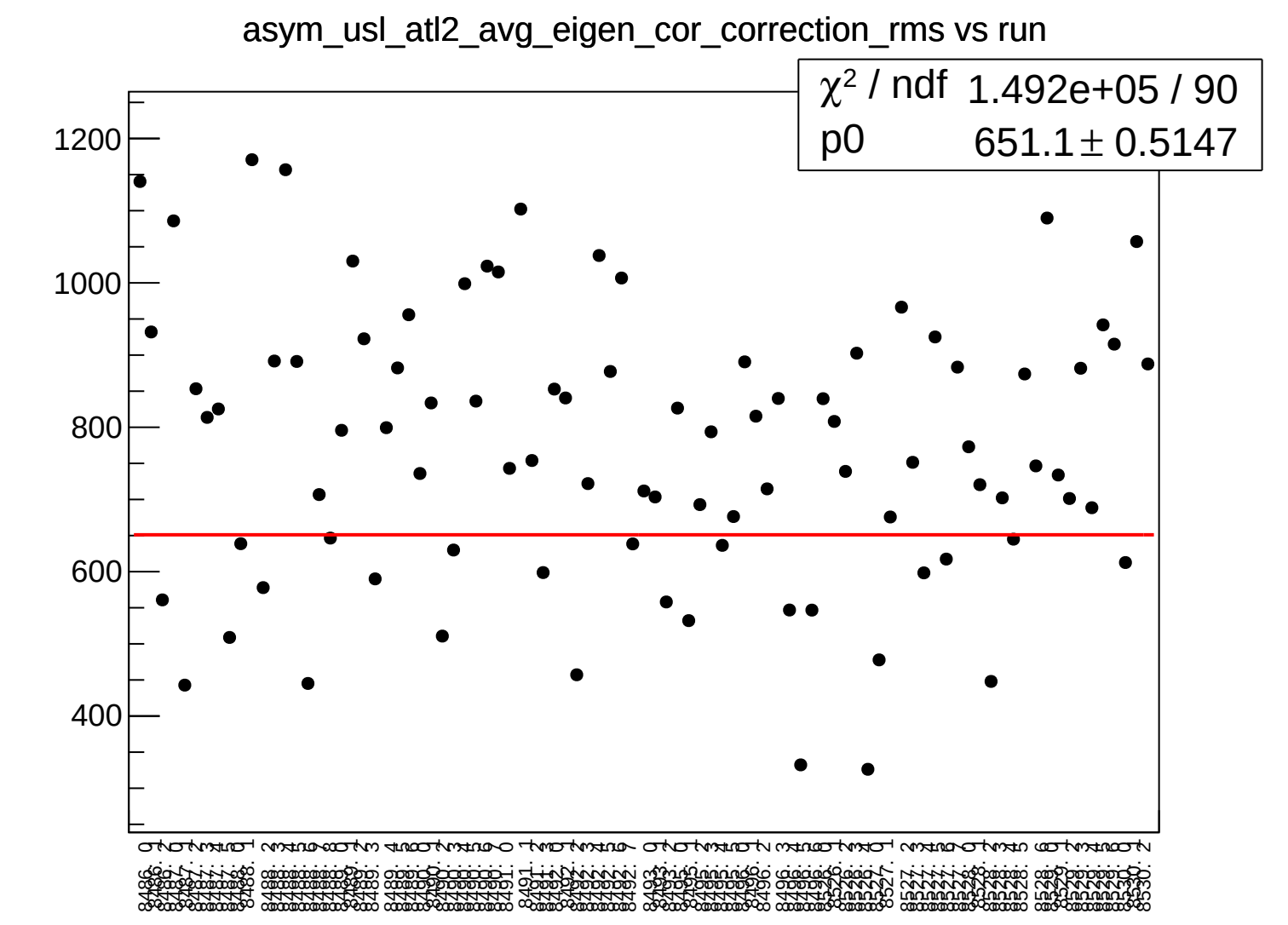

eigen_cor_asym_usl_atl2_avg_mean vs run
×10^3
χ² / ndf 81.05 / 90
p0 −2.182e+04 ± 2.553e+04
pull
Entries 91
Mean −903.5
Std Dev 0

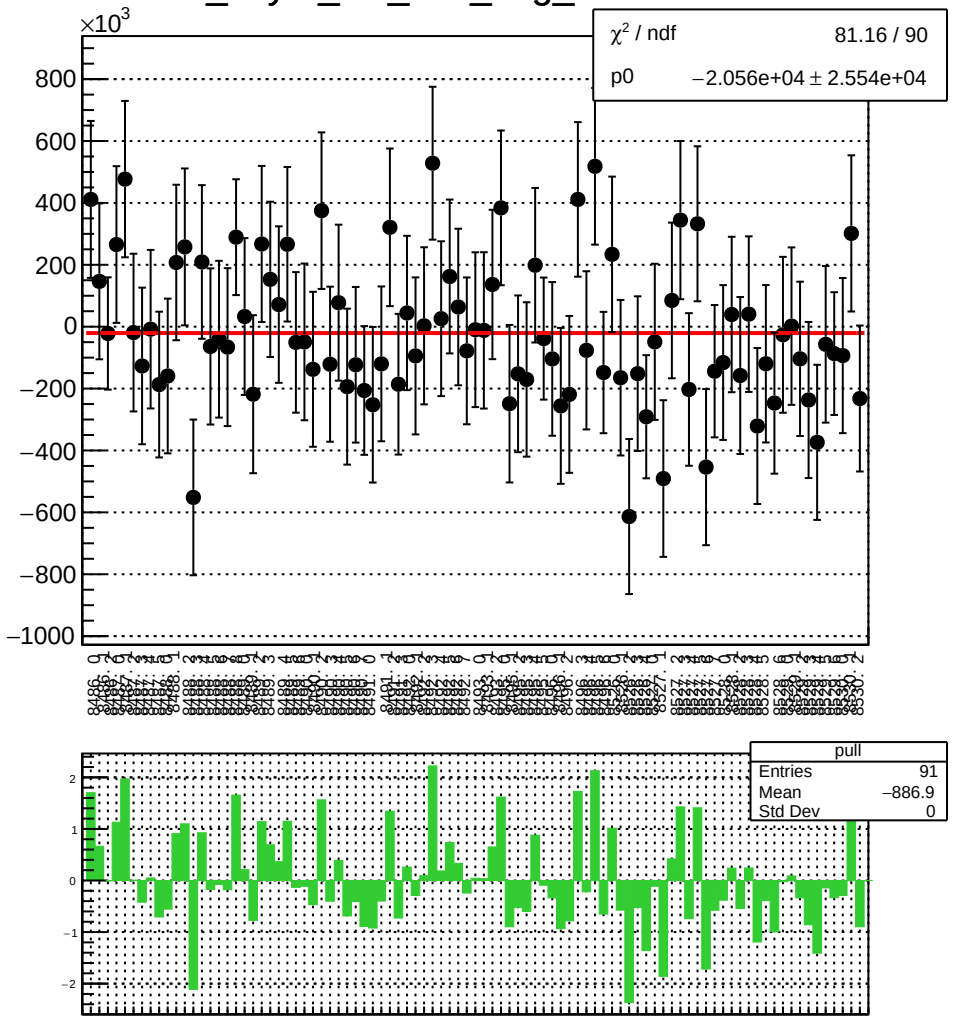

pull1D
Entries 91
Mean 0.006982
Std Dev 0.9437

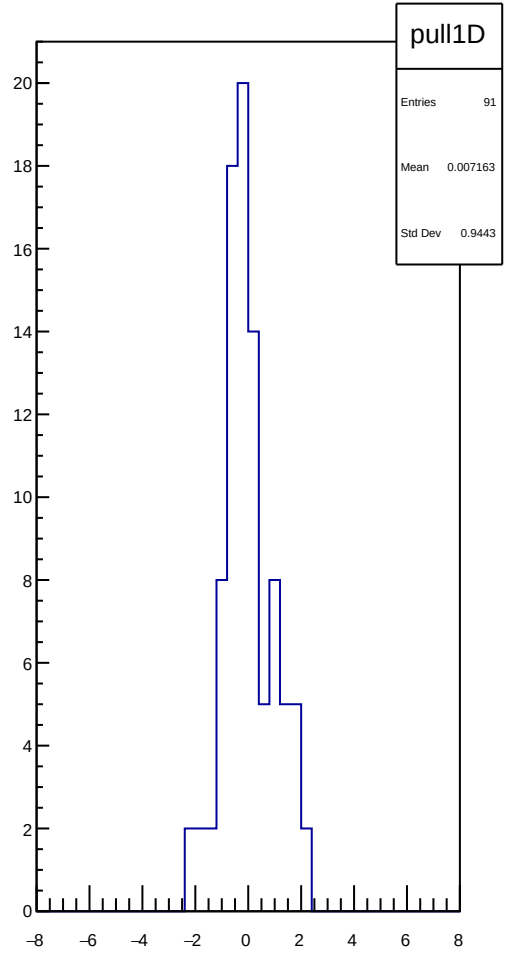

eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 105.9 / 90
p0 2.388e+04 ± 18.05
24600
24400
24200
24000
23800
23600
23400
23200

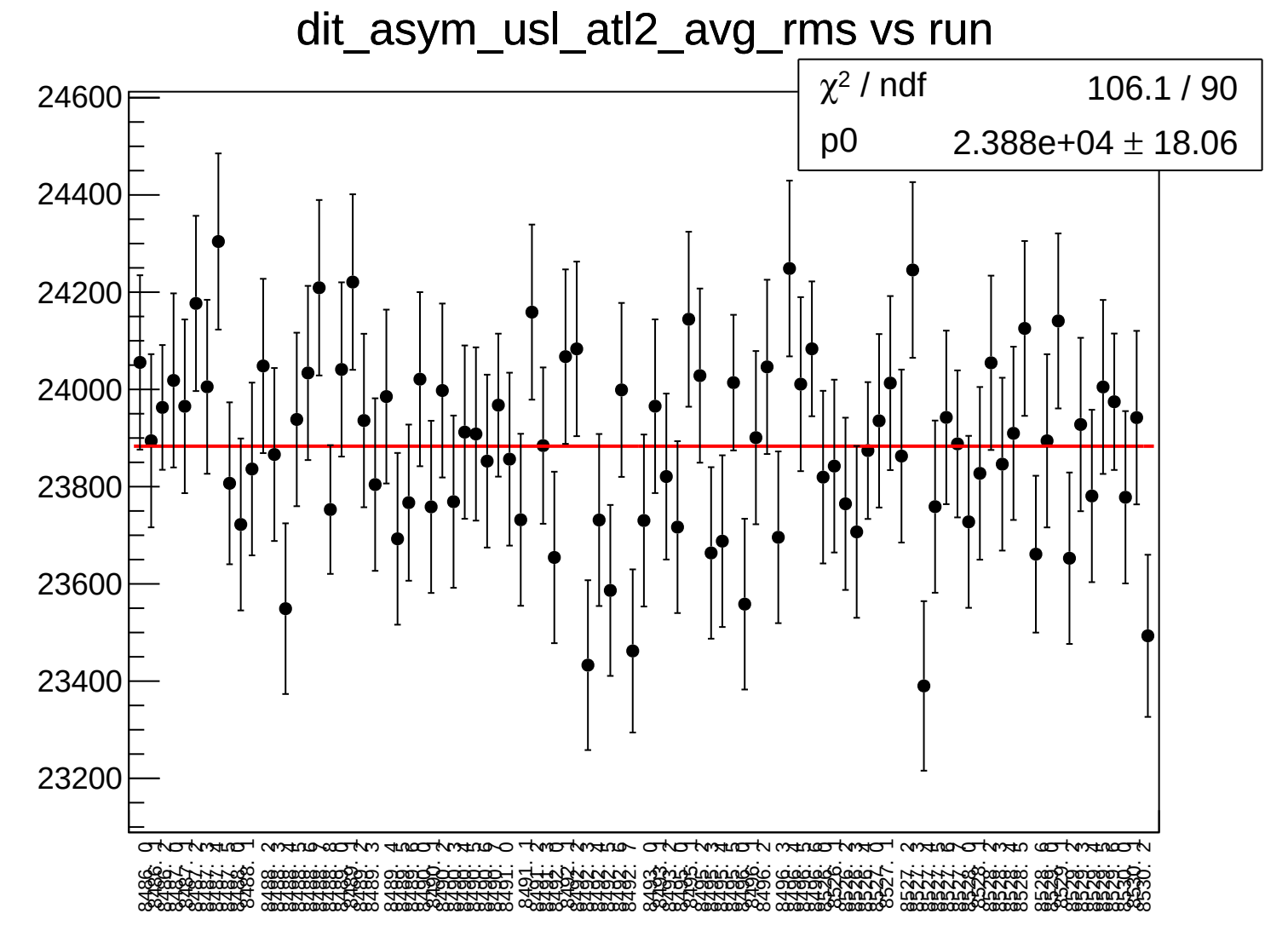

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
χ² / ndf 84.71 / 90
p0 −2216 ± 727.9
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean −15.15
Std Dev 0
2
1
0
−1
−2
−3

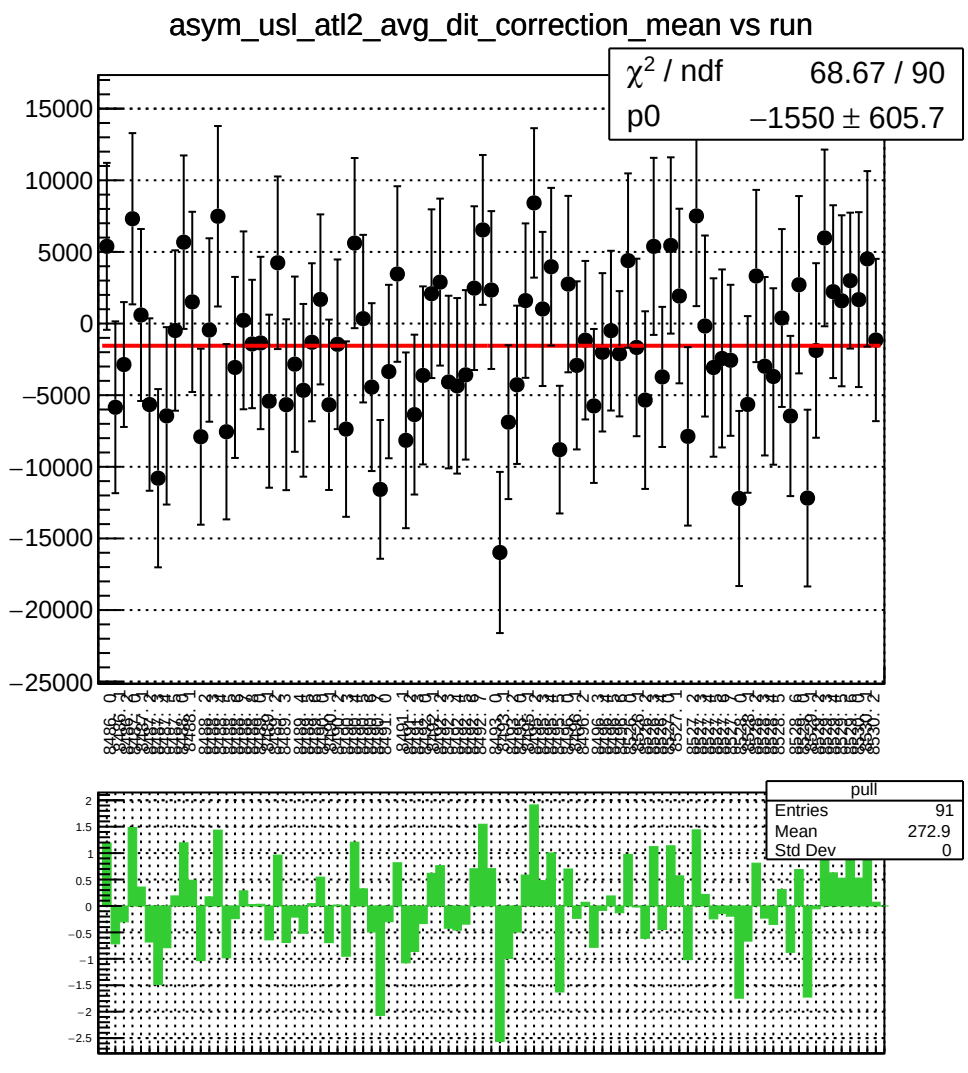

pull1D
Entries 91
Mean −0.05178
Std Dev 0.9634
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

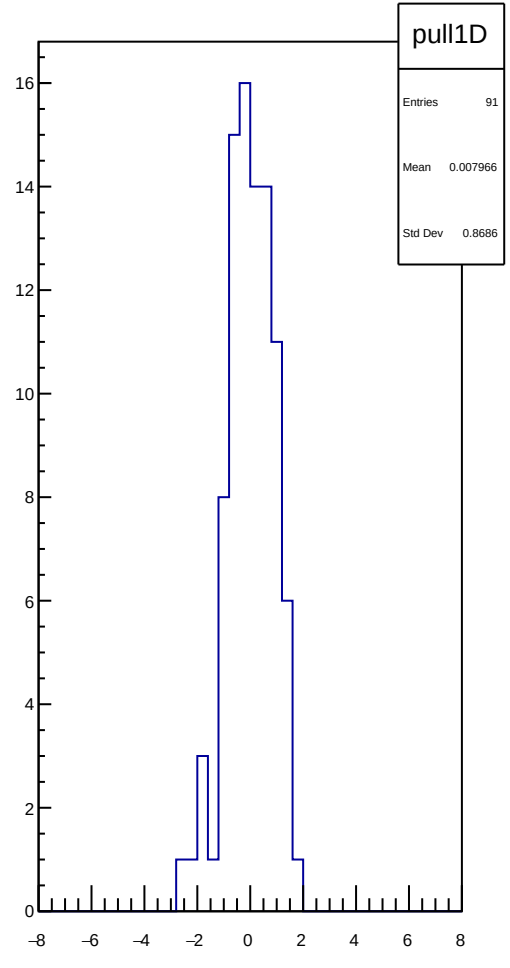

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.492e+05 / 90
p0 651.1 ± 0.5147
1200
1000
800
600
400

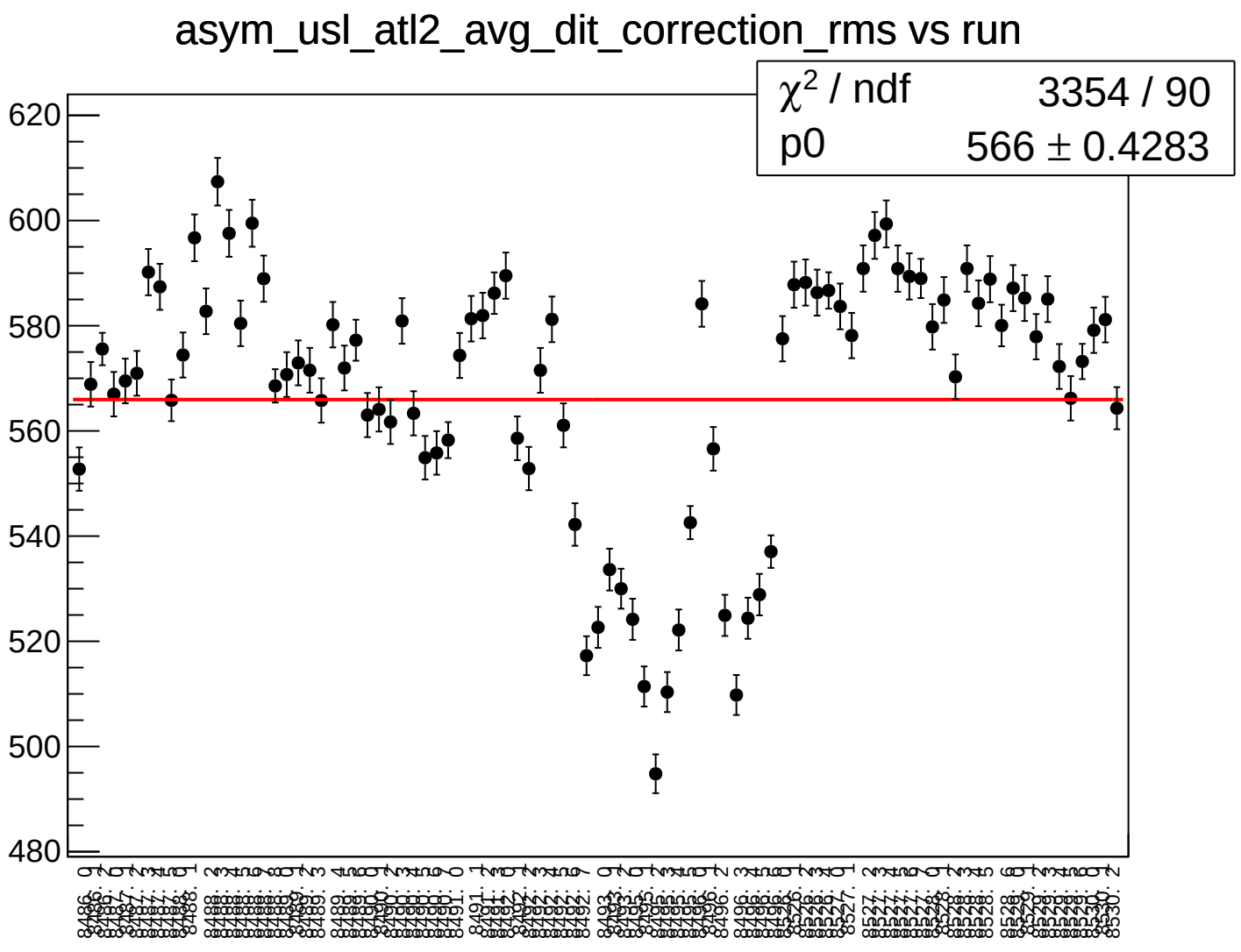

dit_asym_usl_atl2_avg_mean vs run
×10^3
χ² / ndf 81.16 / 90
p0 −2.056e+04 ± 2.554e+04
pull
Entries 91
Mean −886.9
Std Dev 0

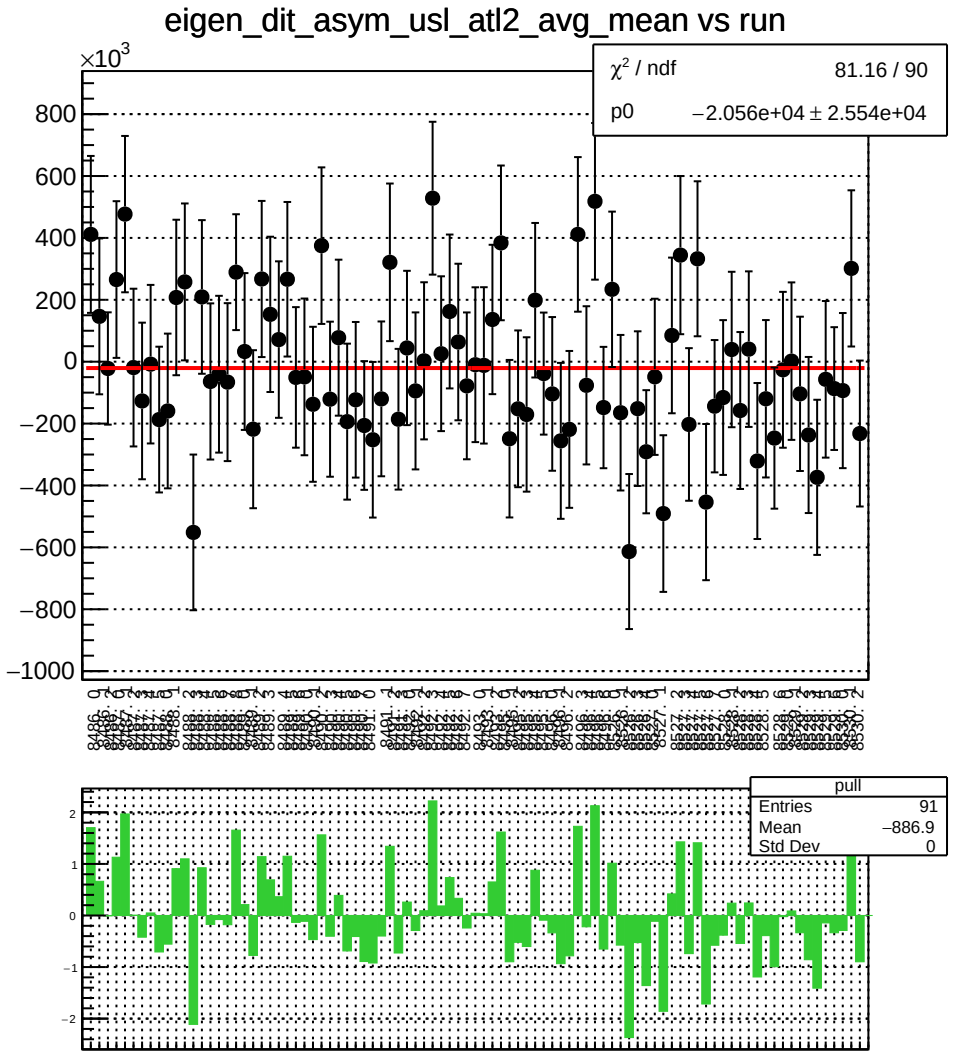

pull1D
Entries 91
Mean 0.007163
Std Dev 0.9443

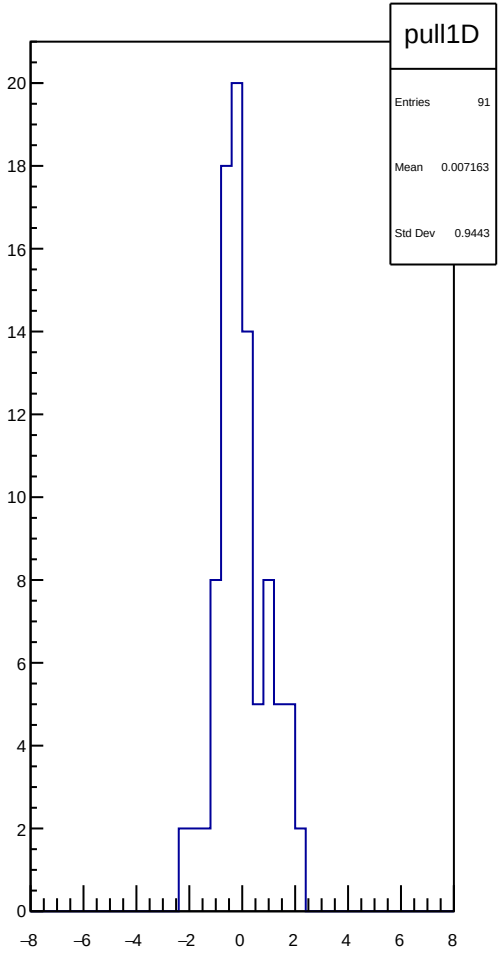

dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 106.1 / 90
p0 2.388e+04 ± 18.06
24600
24400
24200
24000
23800
23600
23400
23200

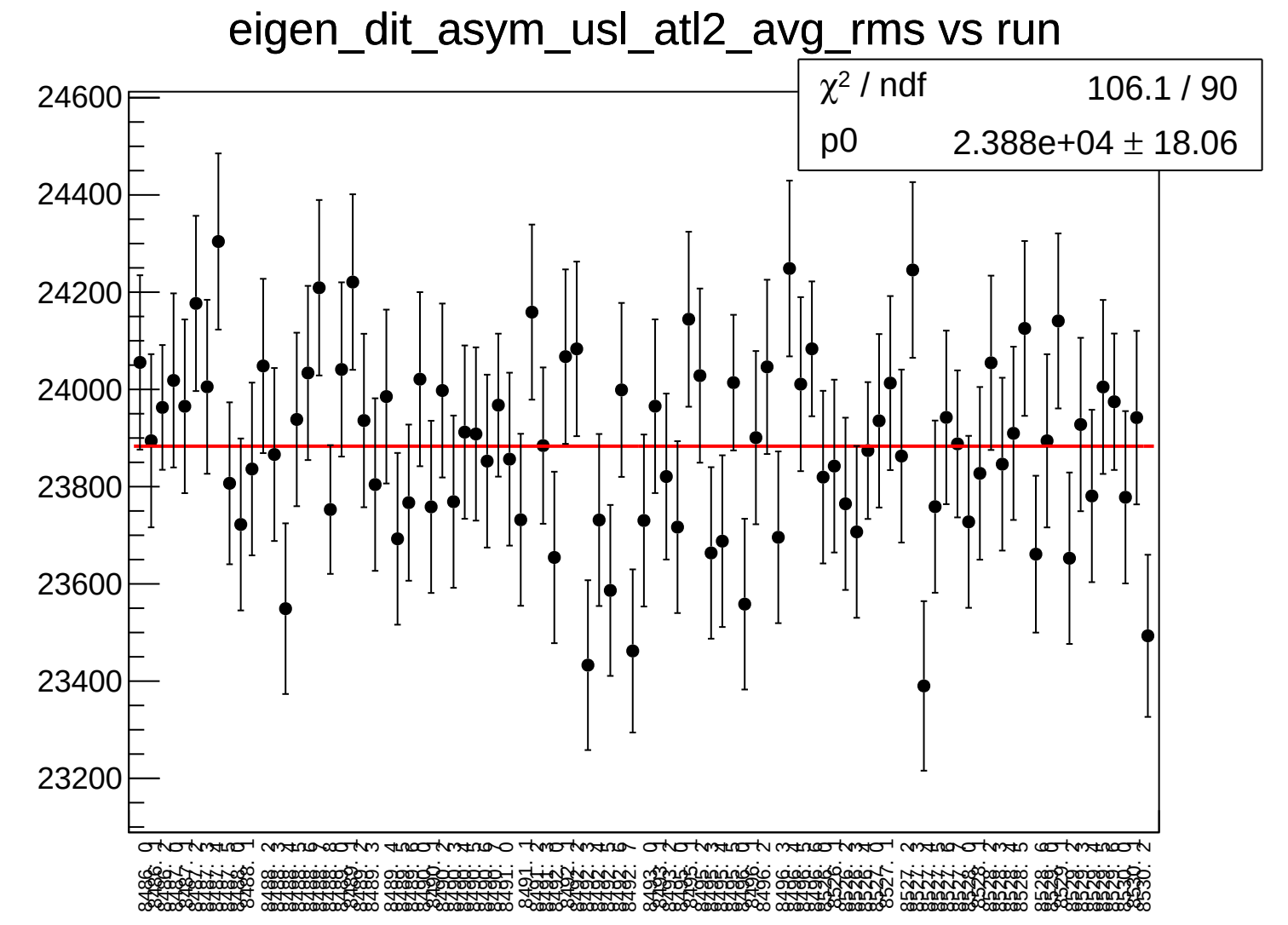

asym_usl_atl2_avg_dit_correction_mean vs run
χ² / ndf 68.67 / 90
p0 −1550 ± 605.7
pull
Entries 91
Mean 272.9
Std Dev 0

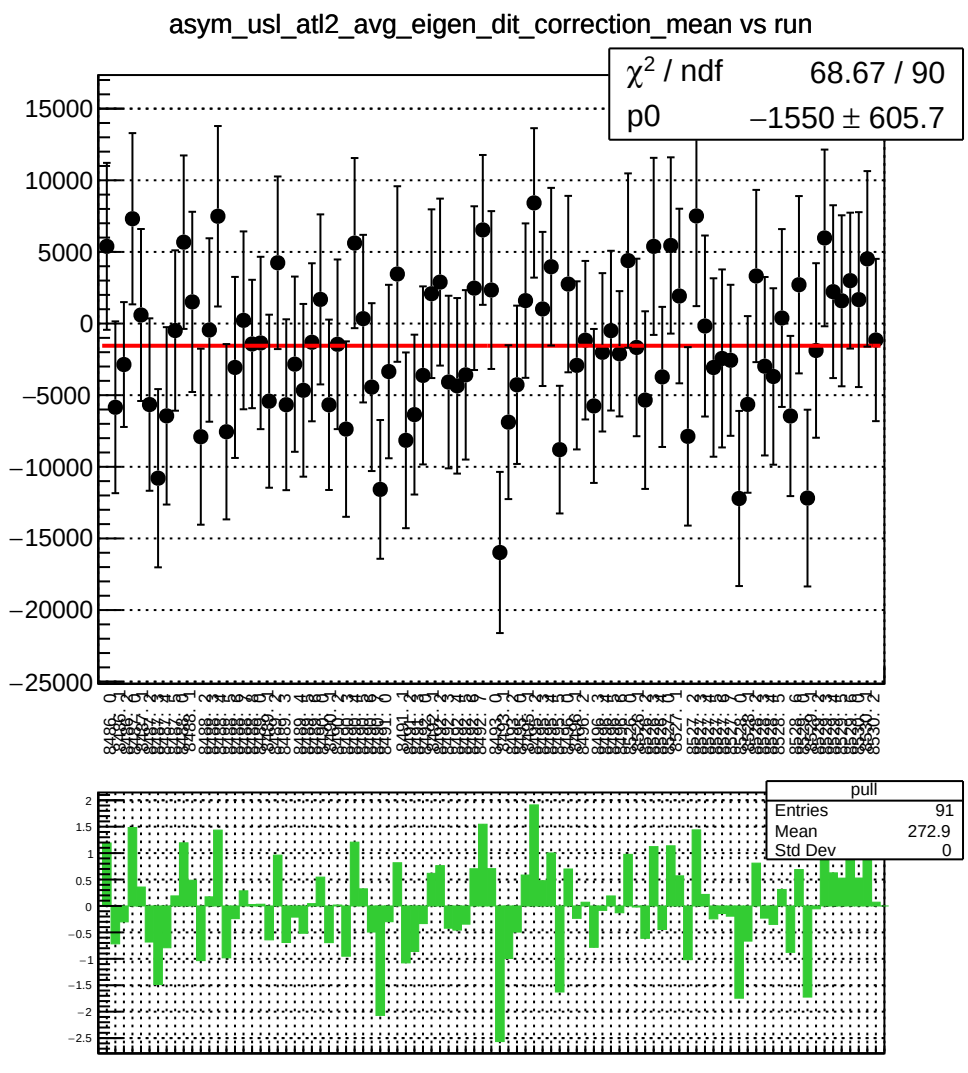

pull1D
Entries 91
Mean 0.007966
Std Dev 0.8686

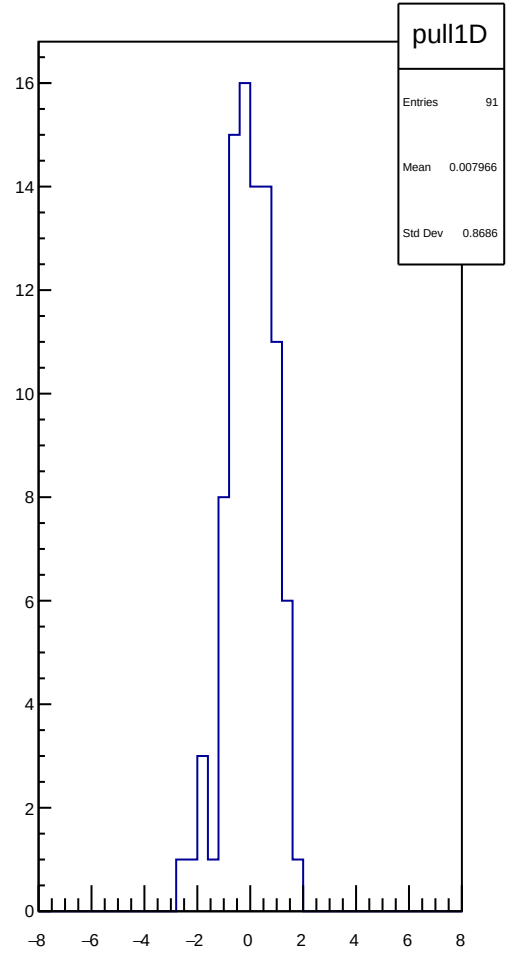

asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 3354 / 90
p0 566 ± 0.4283
620
600
580
560
540
520
500
480

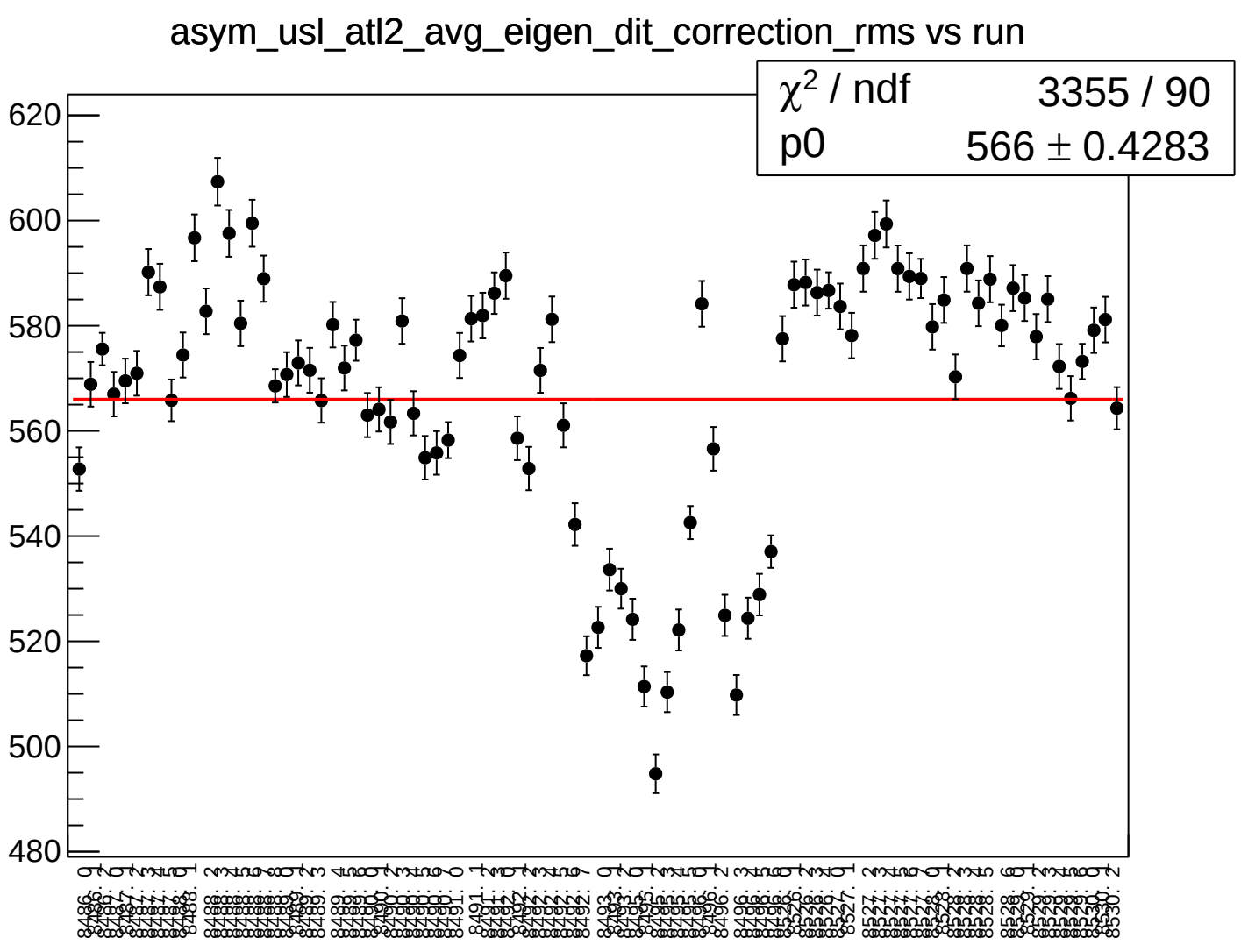

eigen_dit_asym_usl_atl2_avg_mean vs run
×10^3
χ² / ndf 81.16 / 90
p0 −2.056e+04 ± 2.554e+04
pull
Entries 91
Mean −886.9
Std Dev 0

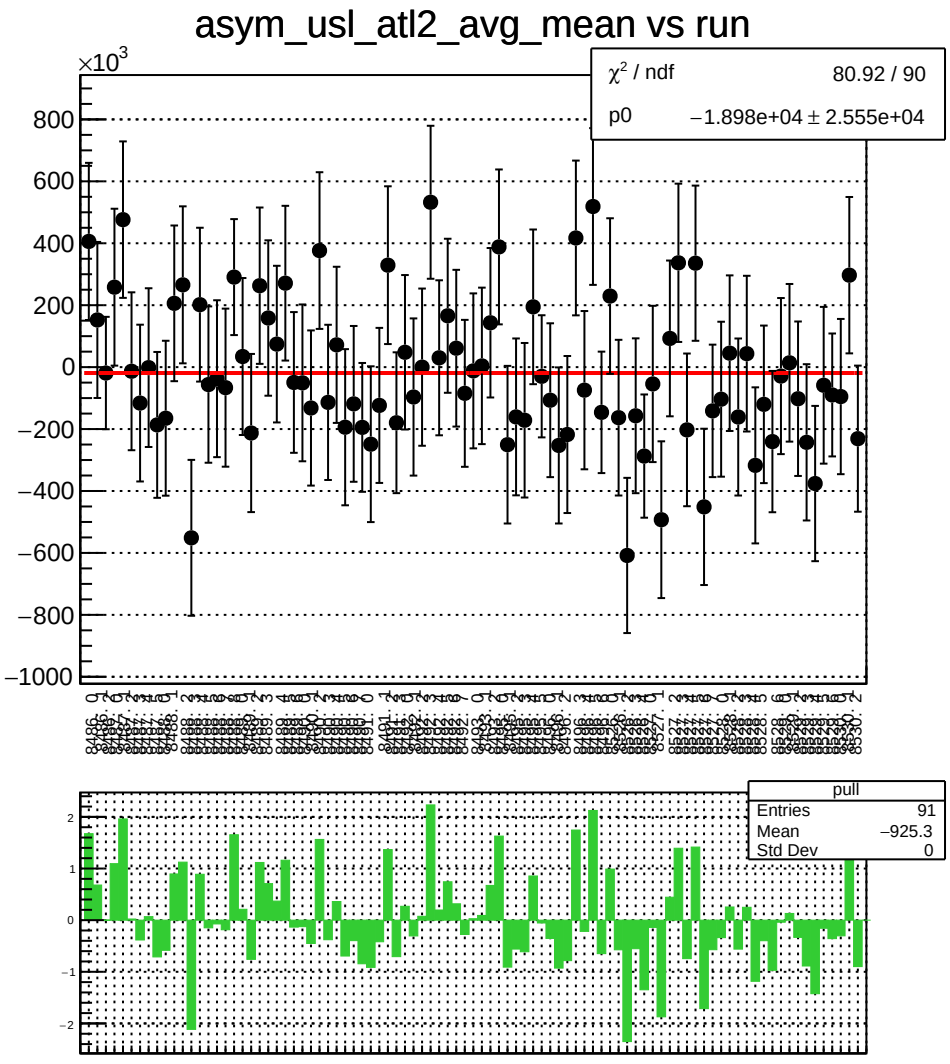

pull1D
Entries 91
Mean 0.007163
Std Dev 0.9443

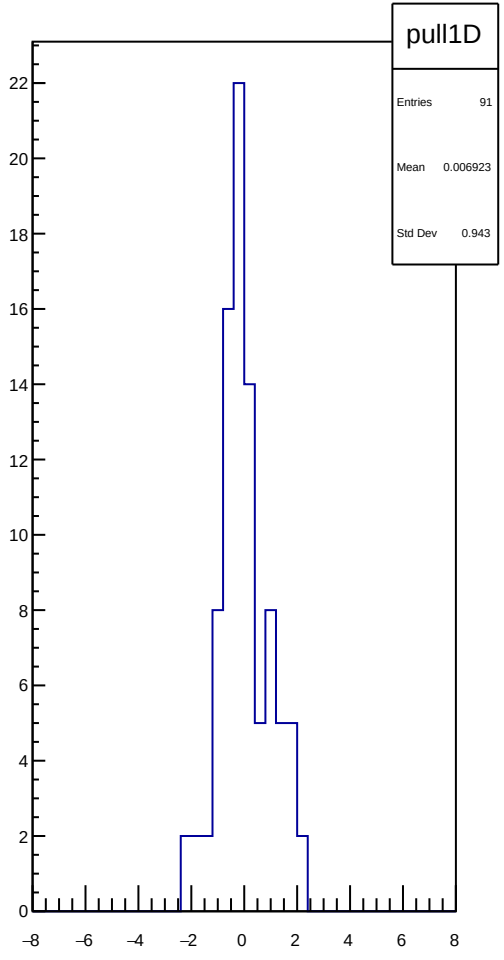

eigen_dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 106.1 / 90
p0 2.388e+04 ± 18.06
24600
24400
24200
24000
23800
23600
23400
23200

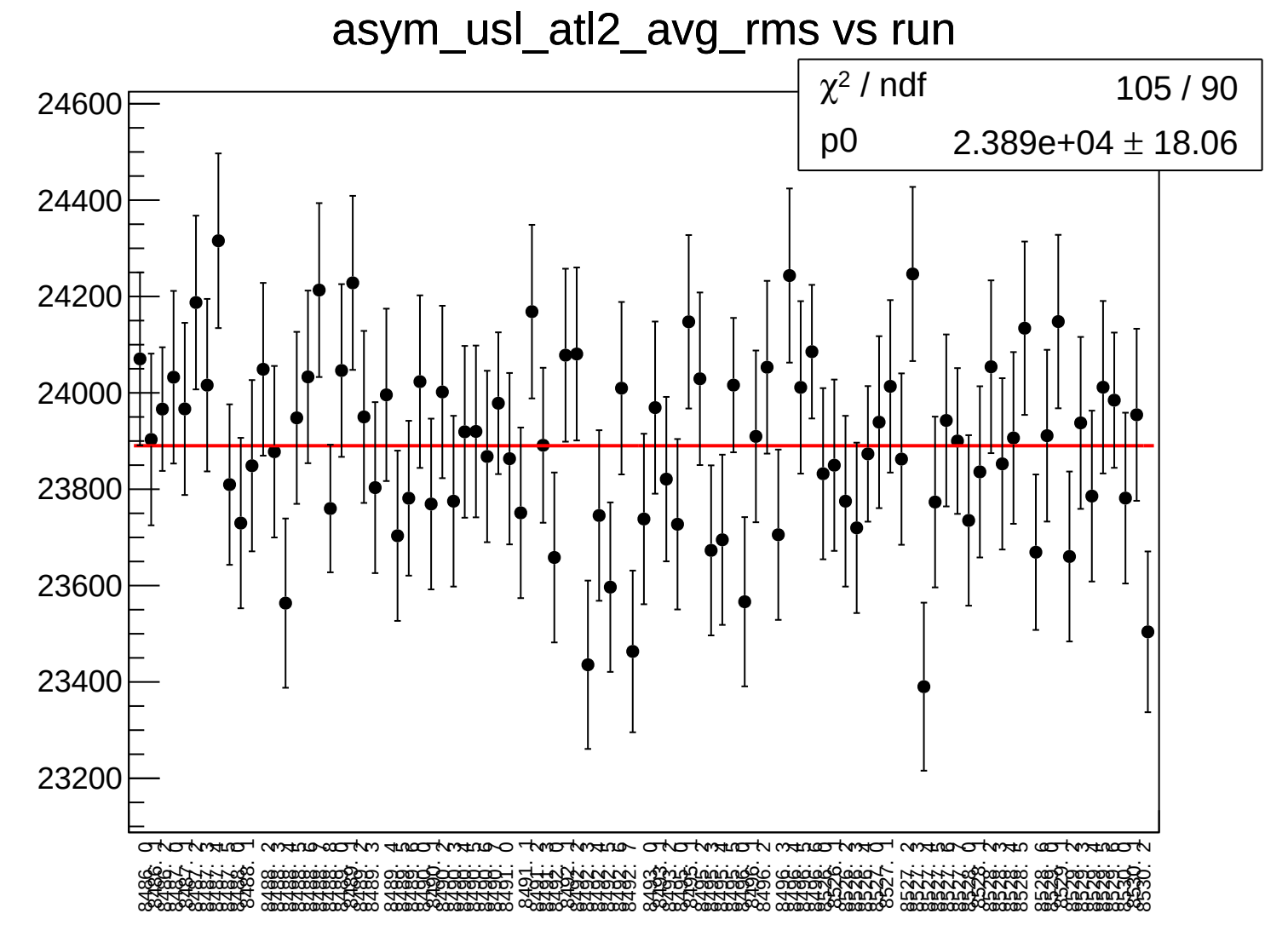

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
χ² / ndf 68.67 / 90
p0 −1550 ± 605.7
pull
Entries 91
Mean 272.9
Std Dev 0

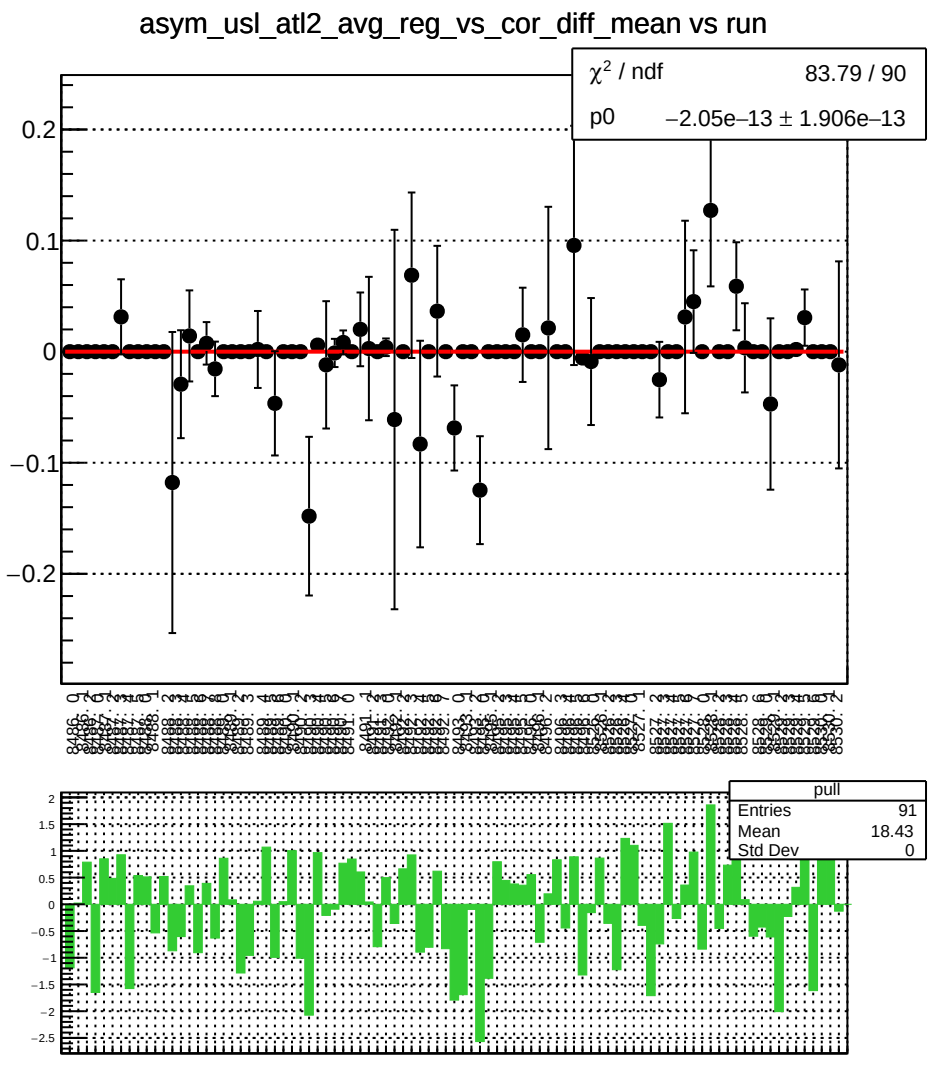

pull1D
Entries 91
Mean 0.007966
Std Dev 0.8686

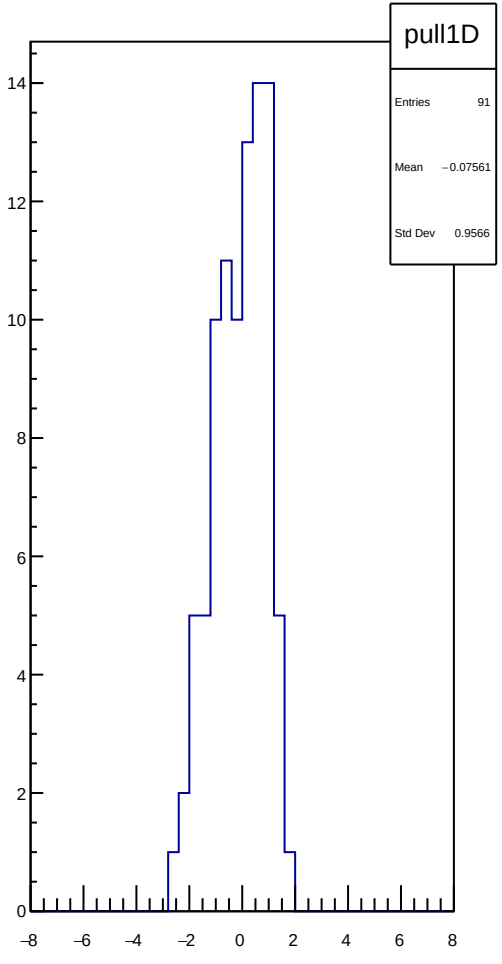

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 3355 / 90
p0 566 ± 0.4283
620
600
580
560
540
520
500
480

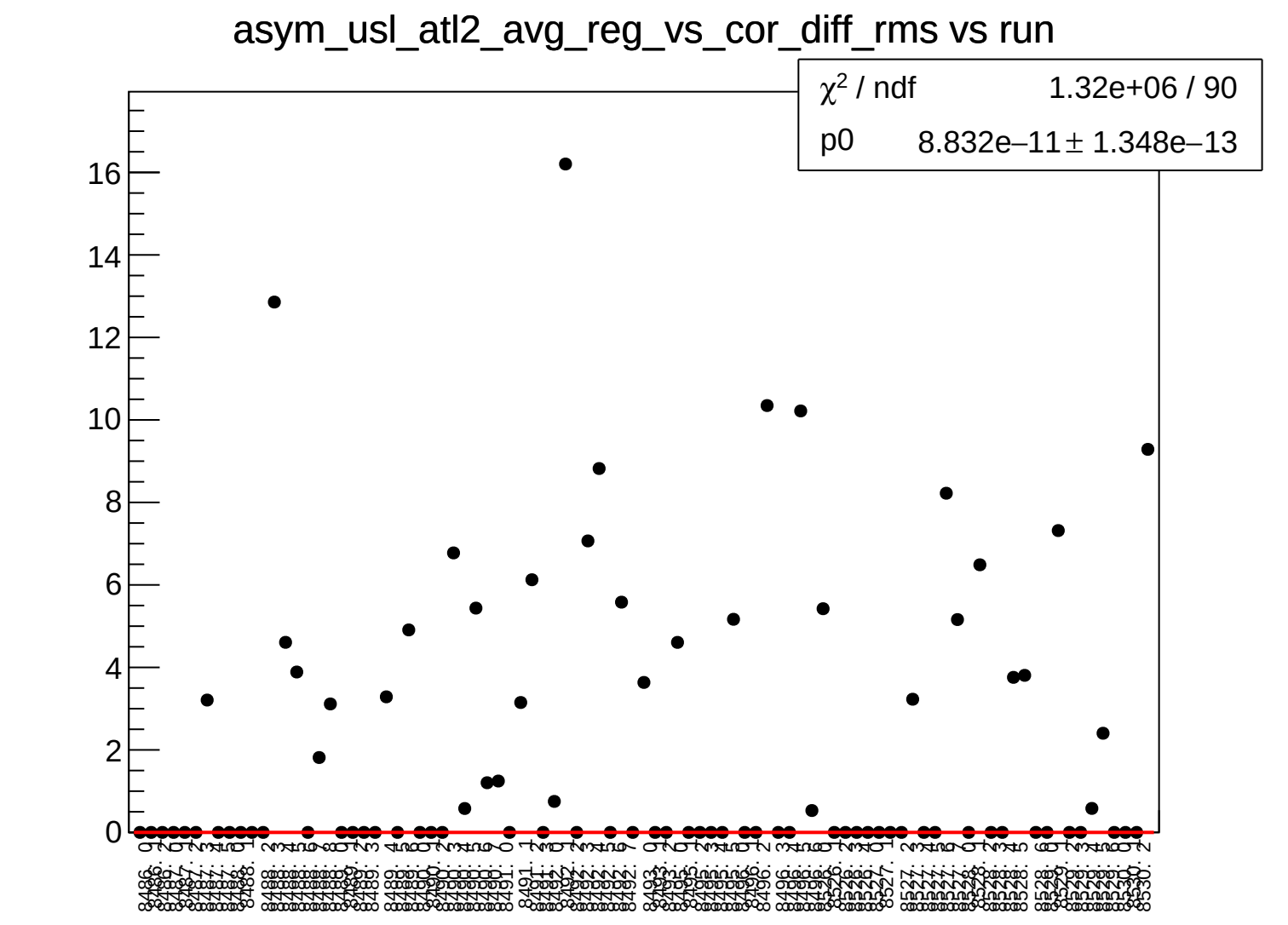

asym_usl_atl2_avg_mean vs run
×10^3
χ² / ndf 80.92 / 90
p0 −1.898e+04 ± 2.555e+04
pull
Entries 91
Mean −925.3
Std Dev 0

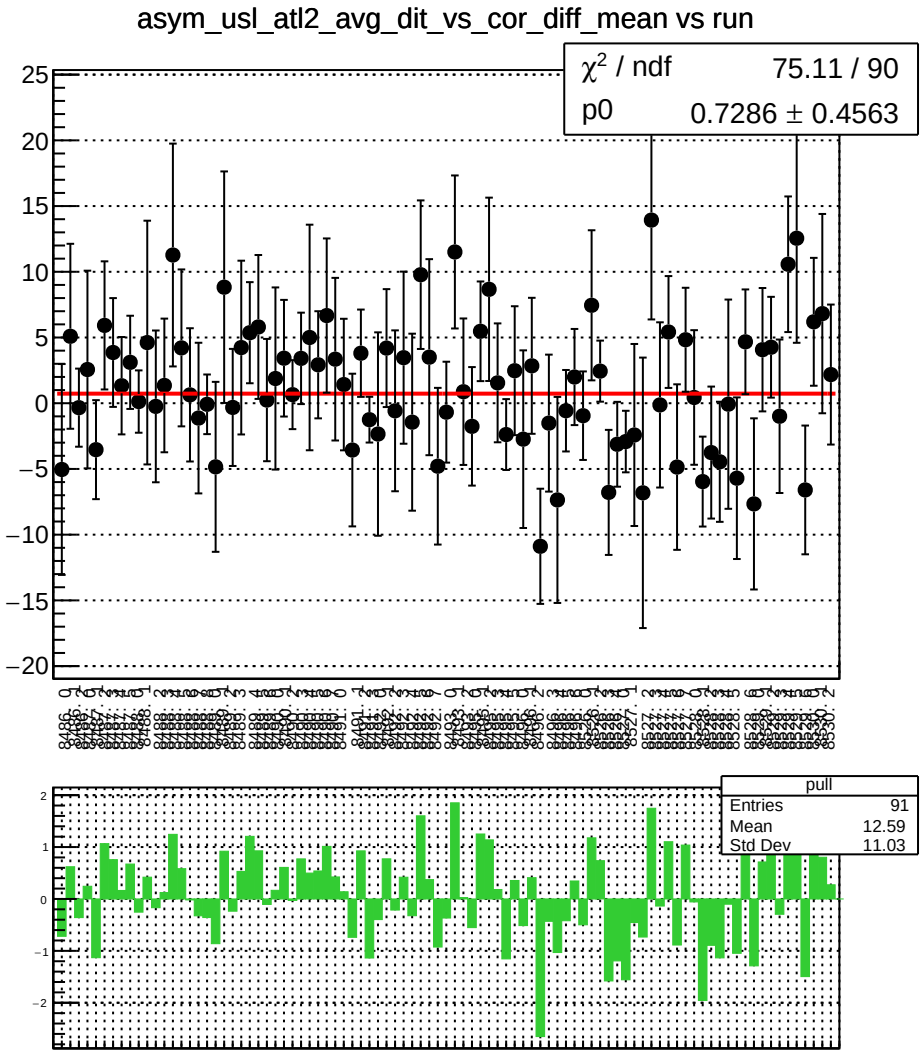

pull1D
Entries 91
Mean 0.006923
Std Dev 0.943

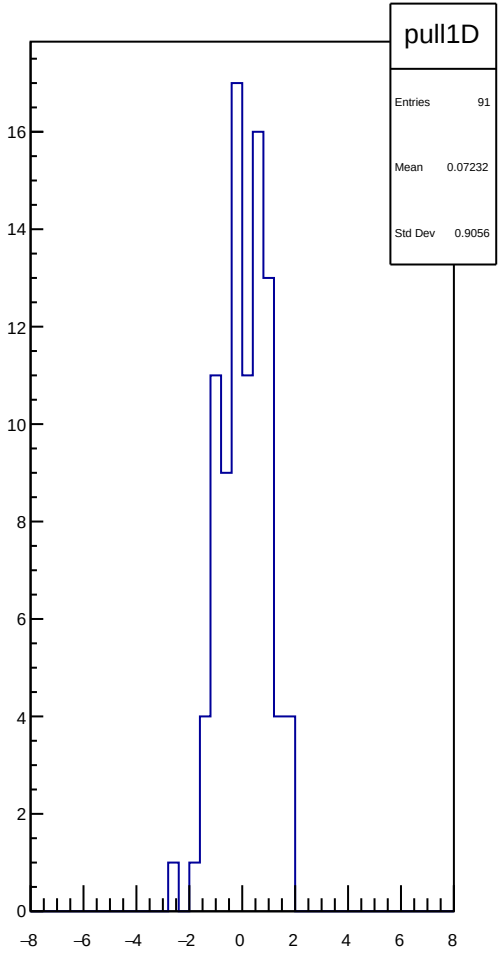

asym_usl_atl2_avg_rms vs run
χ² / ndf 105 / 90
p0 2.389e+04 ± 18.06
24600
24400
24200
24000
23800
23600
23400
23200

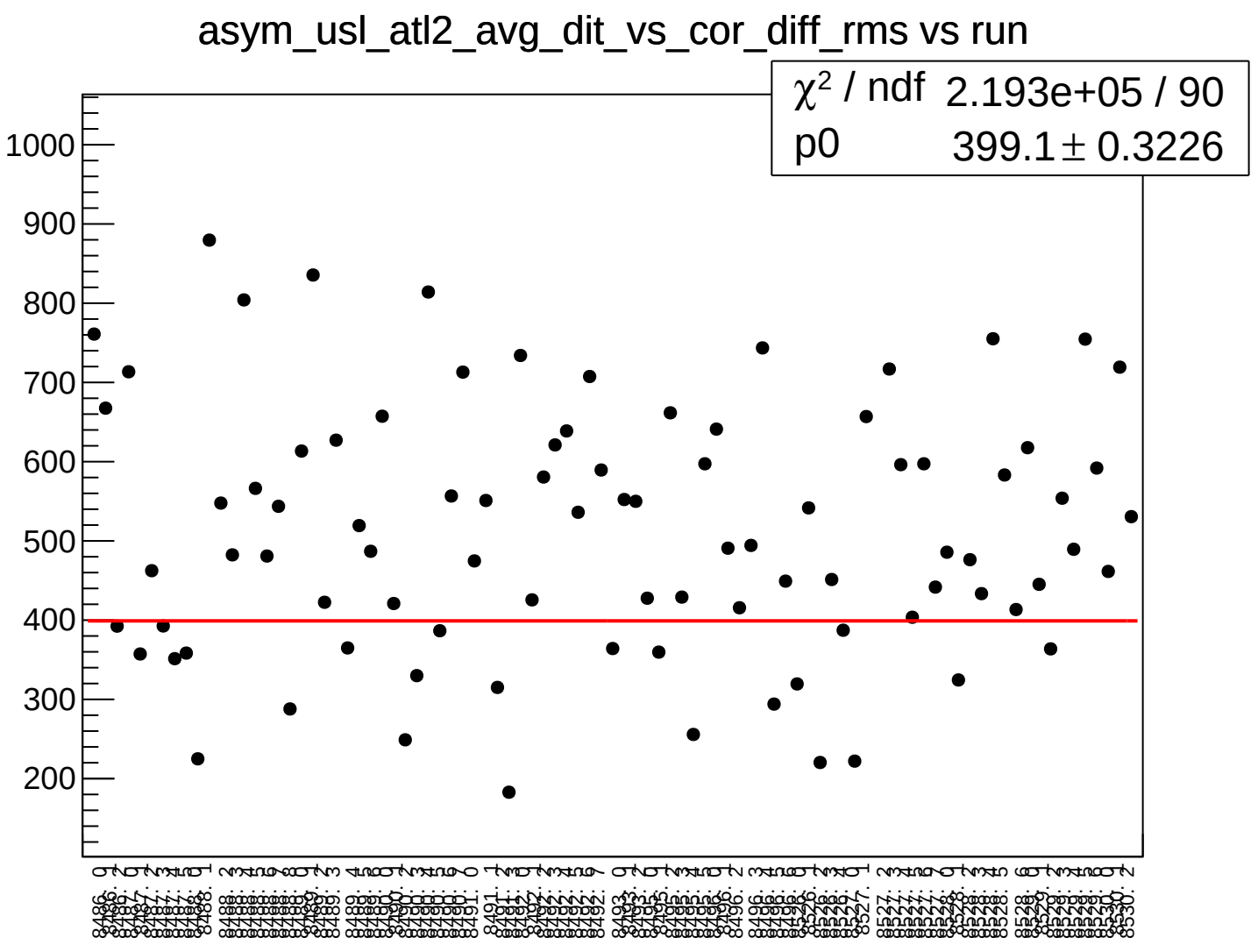

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 83.79 / 90
p0 −2.05e−13 ± 1.906e−13
0.2
0.1
0
−0.1
−0.2
pull
Entries 91
Mean 18.43
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

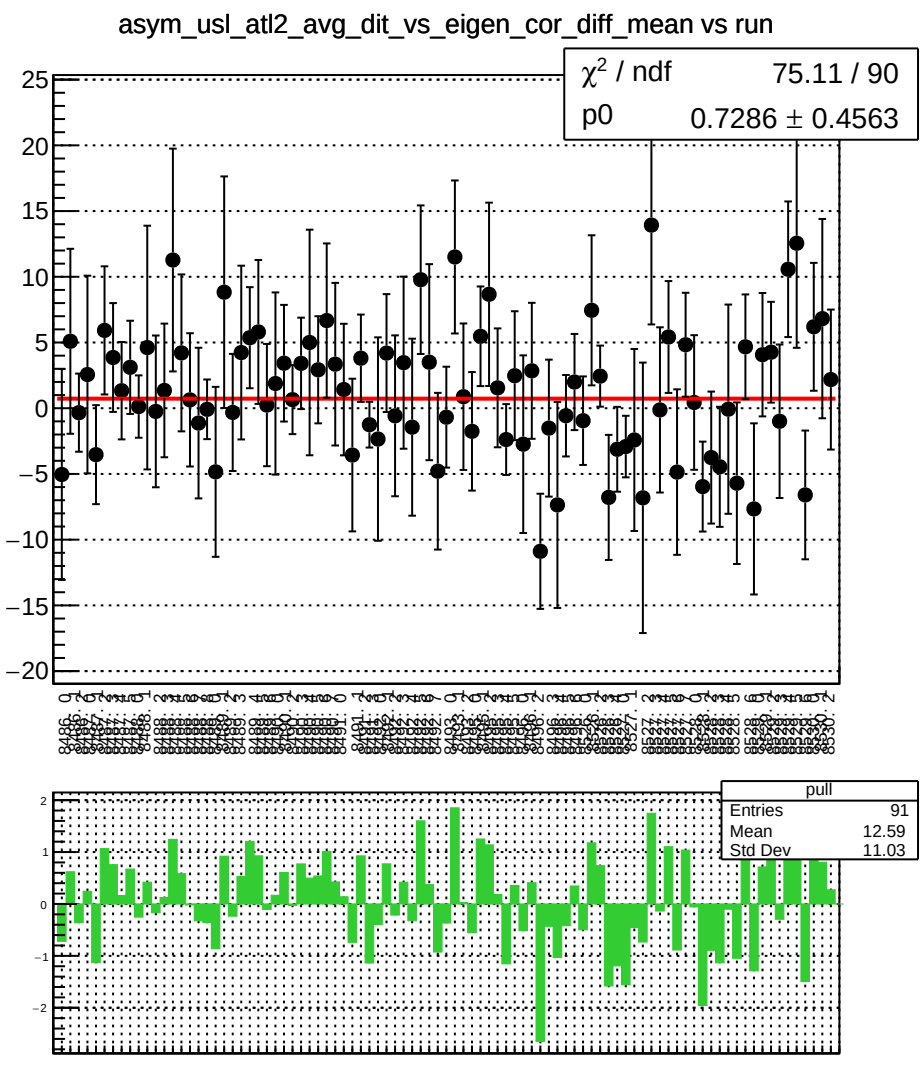

pull1D
Entries 91
Mean −0.07561
Std Dev 0.9566
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

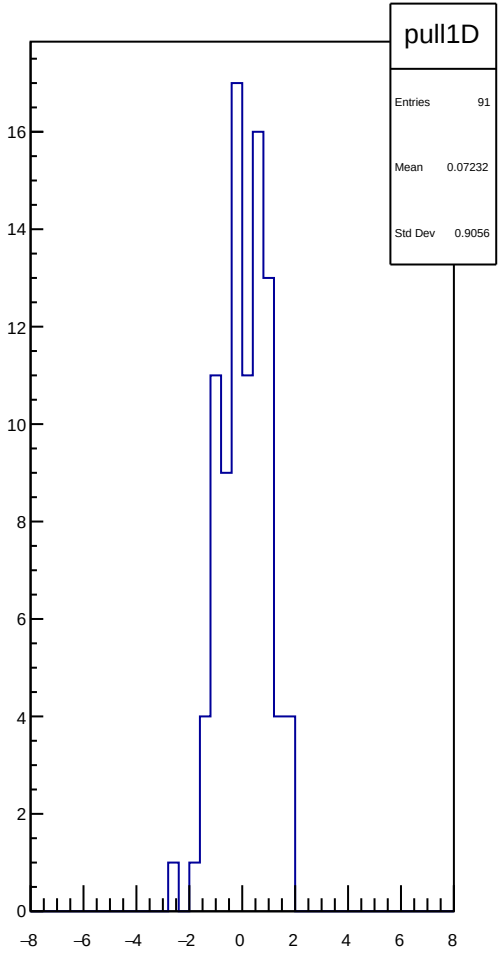

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.32e+06 / 90
p0 8.832e−11 ± 1.348e−13
0
2
4
6
8
10
12
14
16

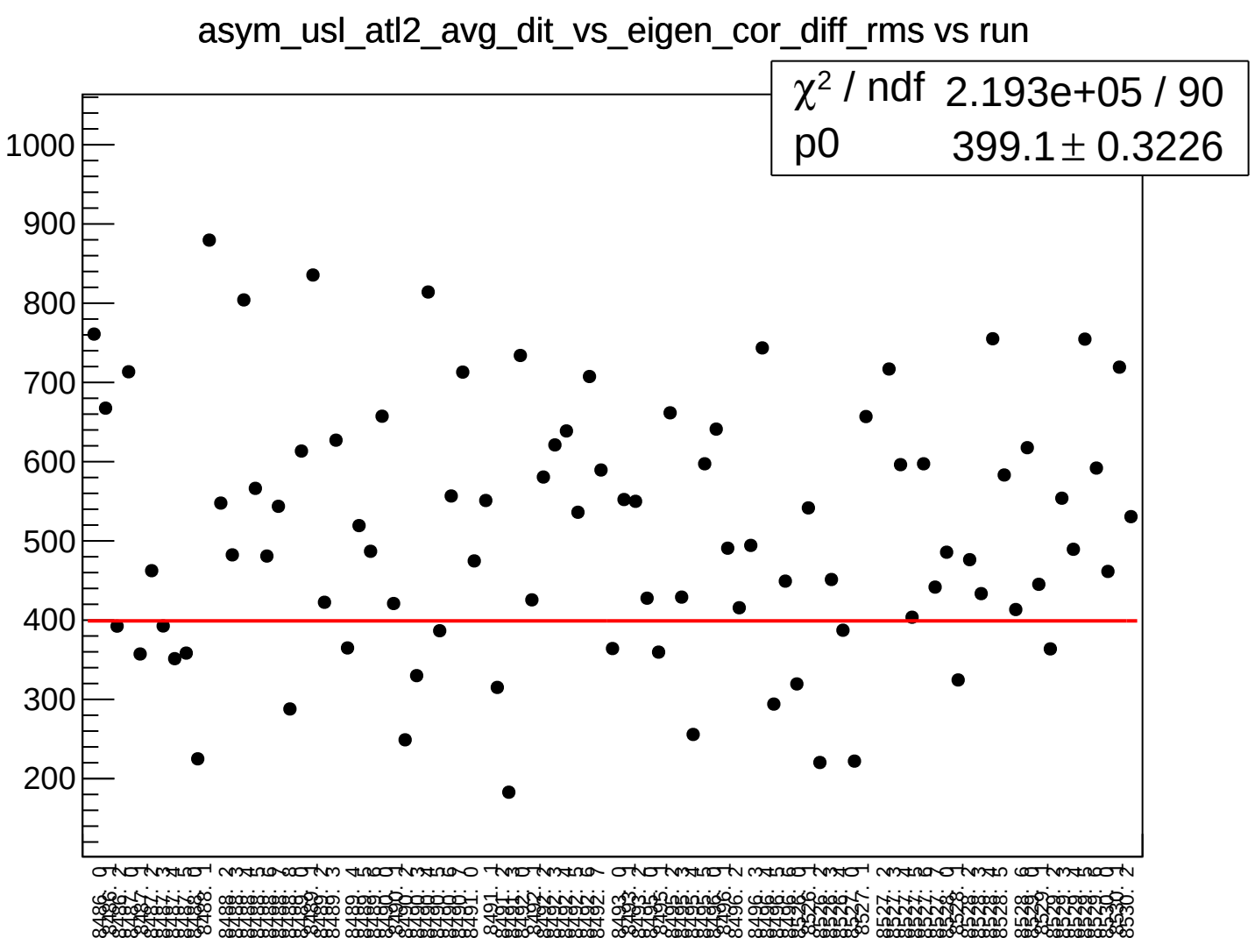

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 75.11 / 90
p0 0.7286 ± 0.4563
pull
Entries 91
Mean 12.59
Std Dev 11.03

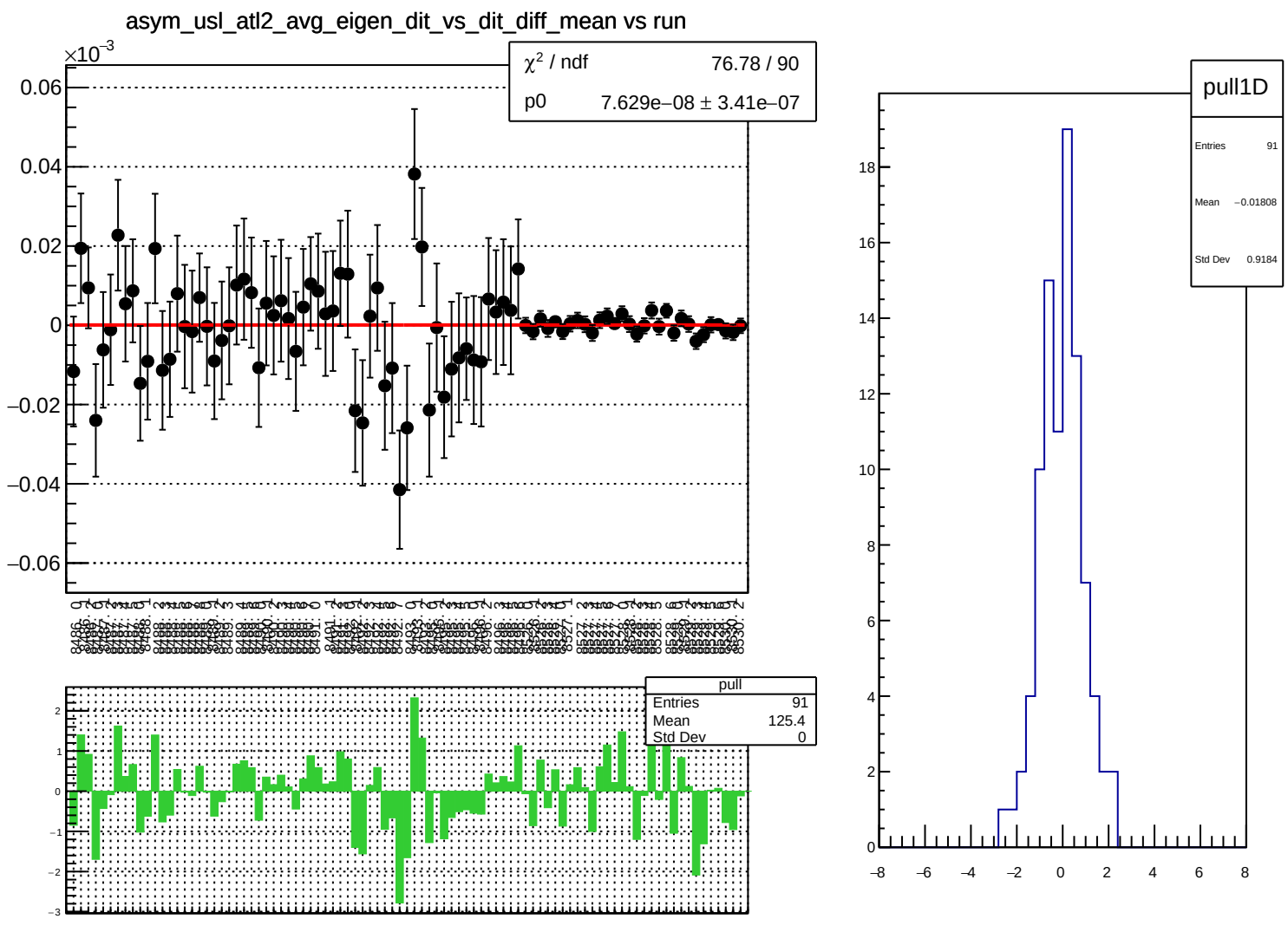

pull1D
Entries 91
Mean 0.07232
Std Dev 0.9056

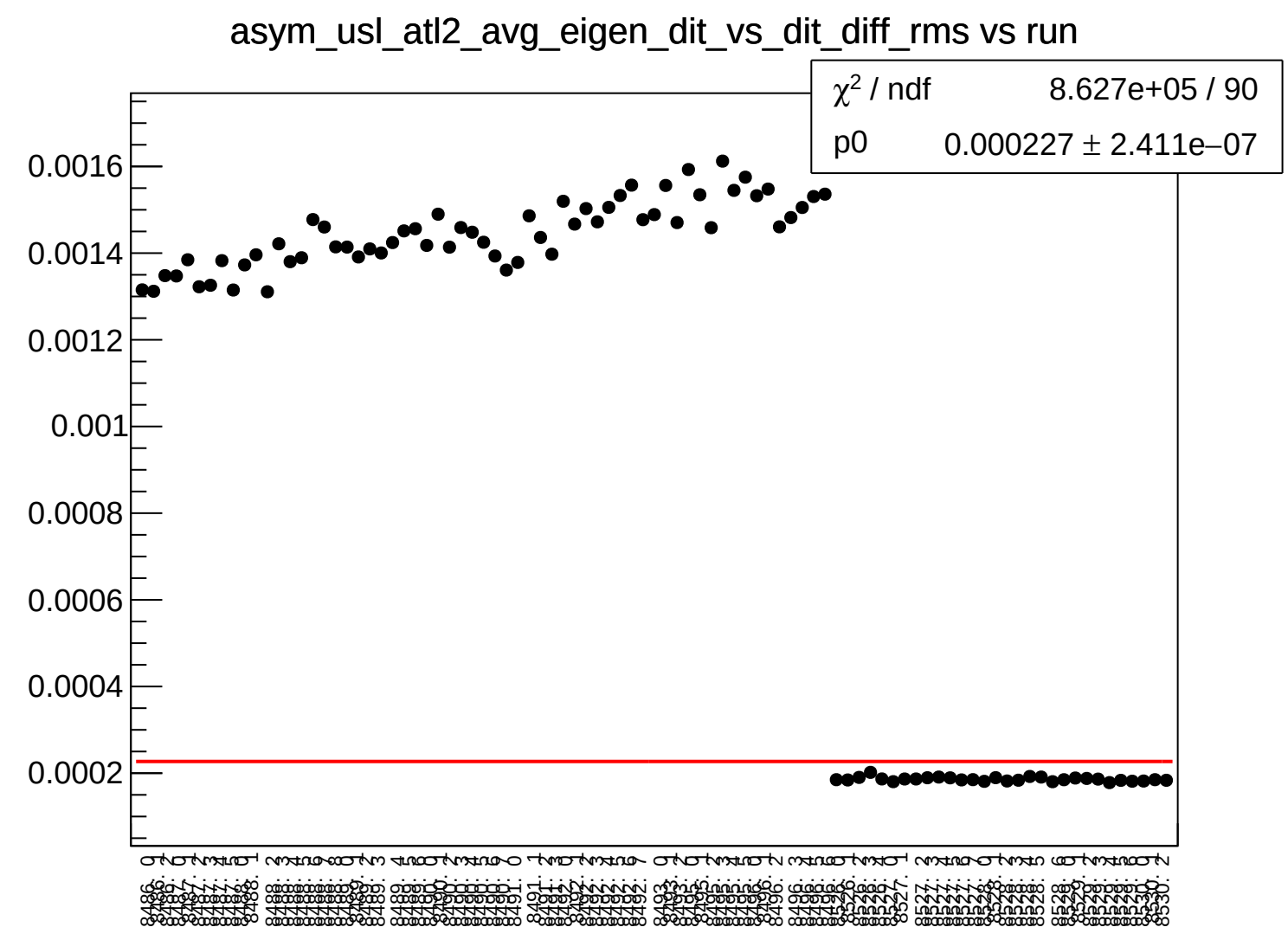

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.193e+05 / 90
p0 399.1 ± 0.3226
1000
900
800
700
600
500
400
300
200

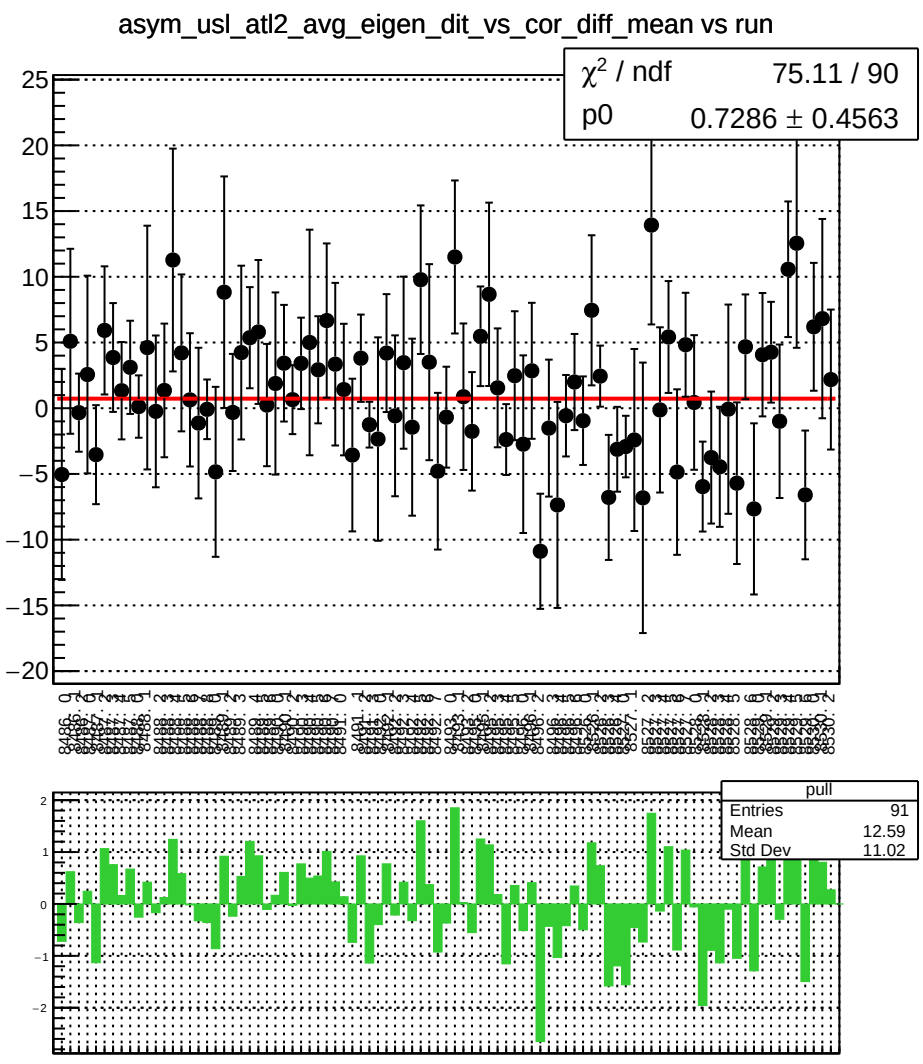

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.11 / 90
p0 0.7286 ± 0.4563
pull
Entries 91
Mean 12.59
Std Dev 11.03

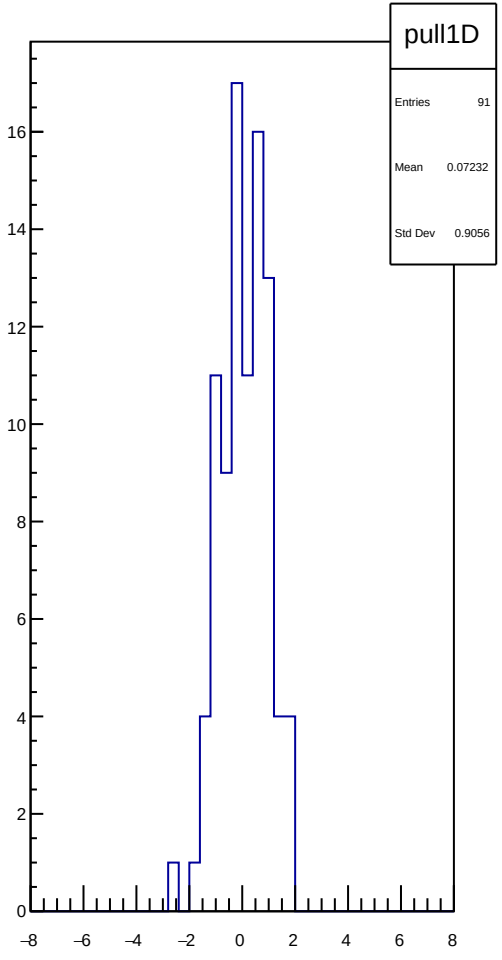

pull1D
Entries 91
Mean 0.07232
Std Dev 0.9056

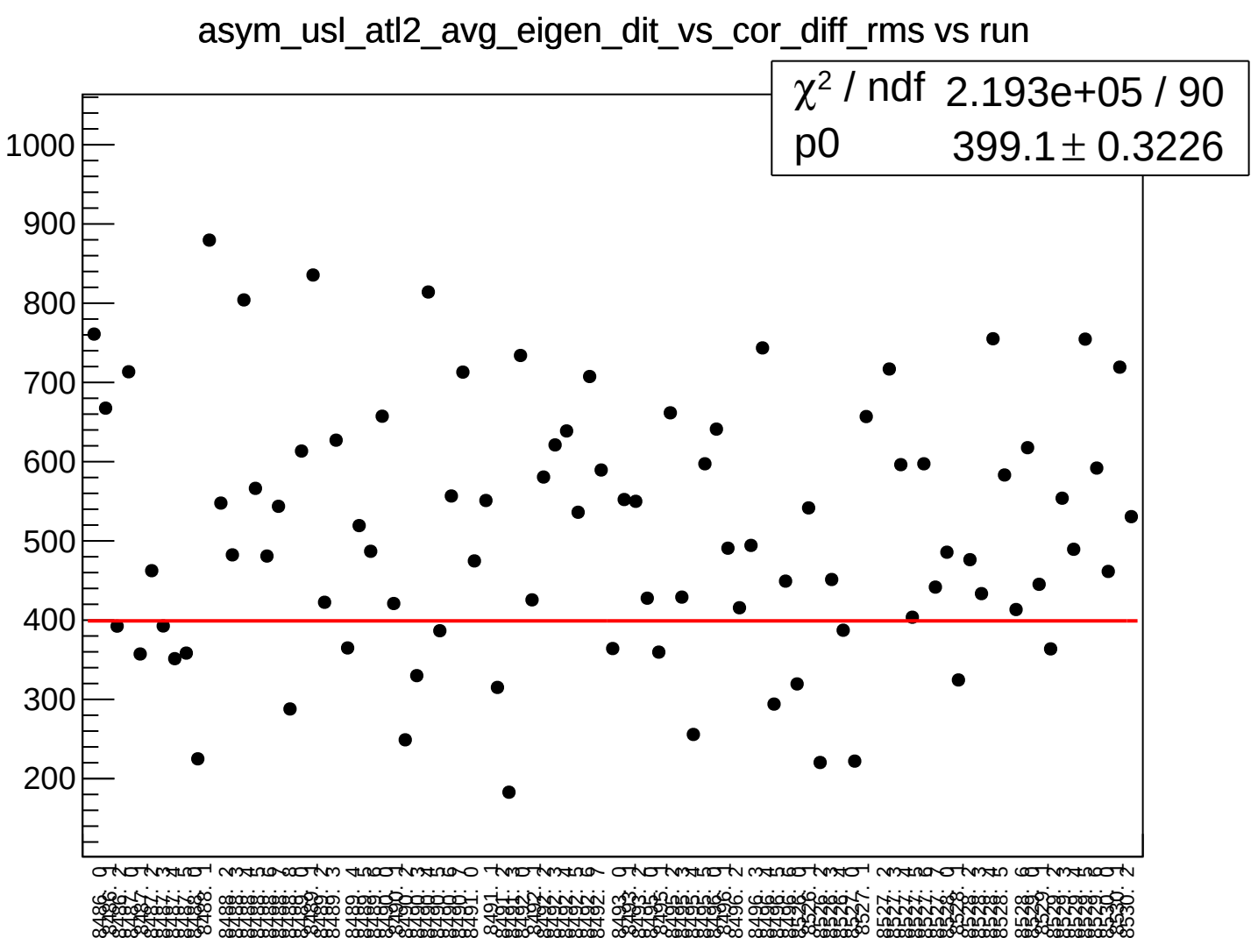

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.193e+05 / 90
p0 399.1 ± 0.3226
1000
900
800
700
600
500
400
300
200

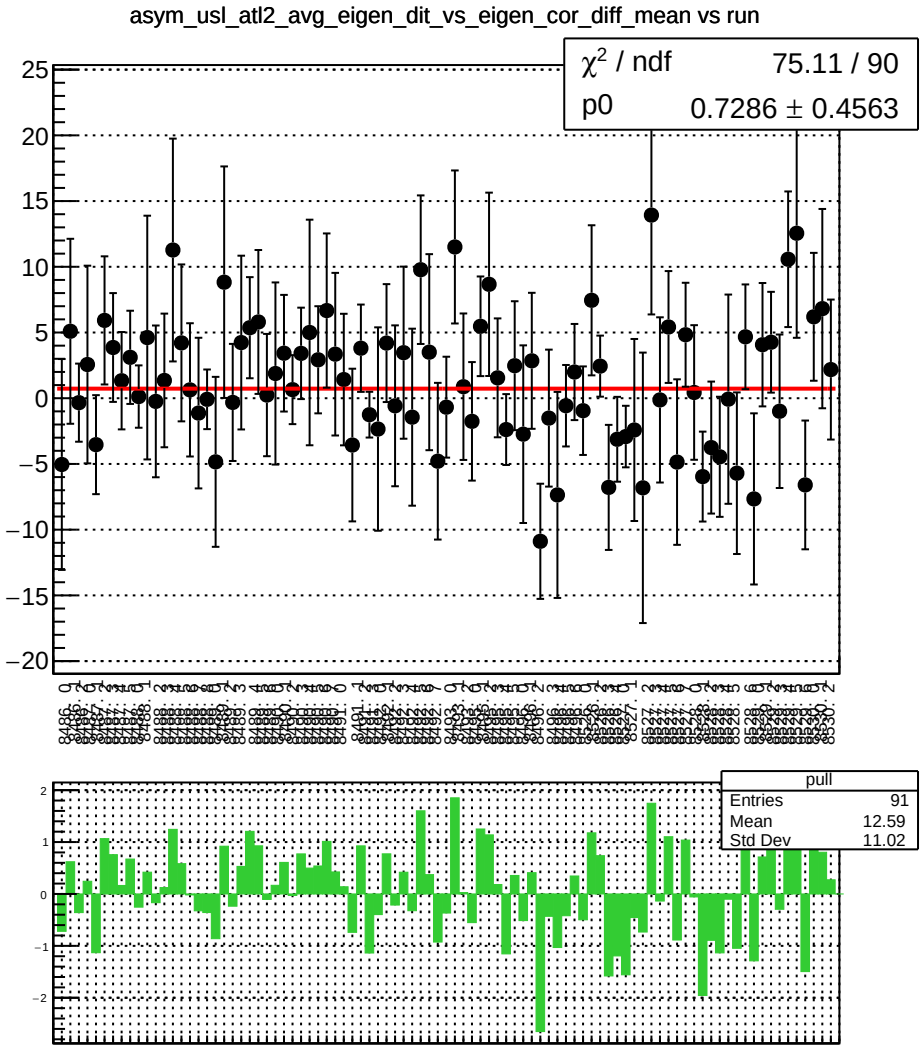

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.78 / 90
p0 7.629e−08 ± 3.41e−07
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 91
Mean 125.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean −0.01808
Std Dev 0.9184
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

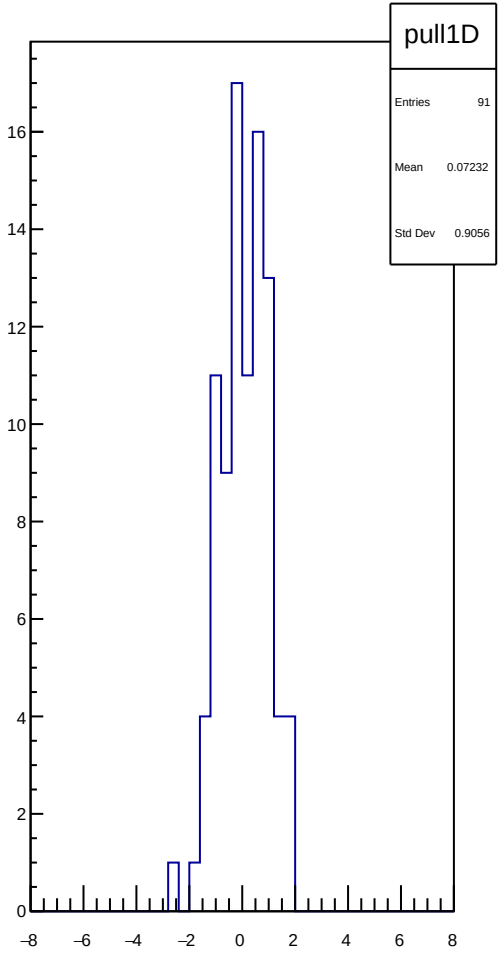

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.627e+05 / 90
p0 0.000227 ± 2.411e−07
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

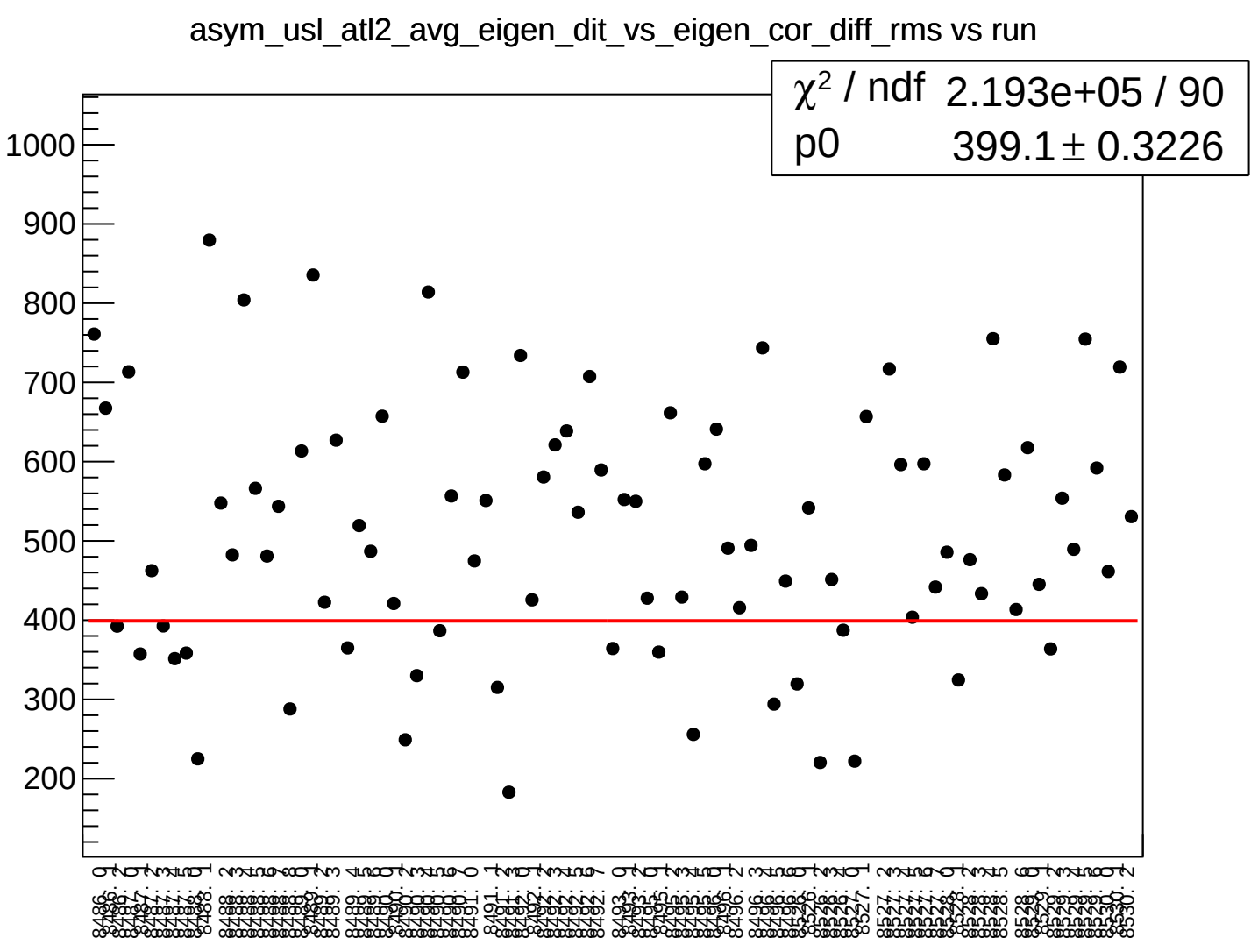

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.11 / 90
p0 0.7286 ± 0.4563
pull
Entries 91
Mean 12.59
Std Dev 11.02

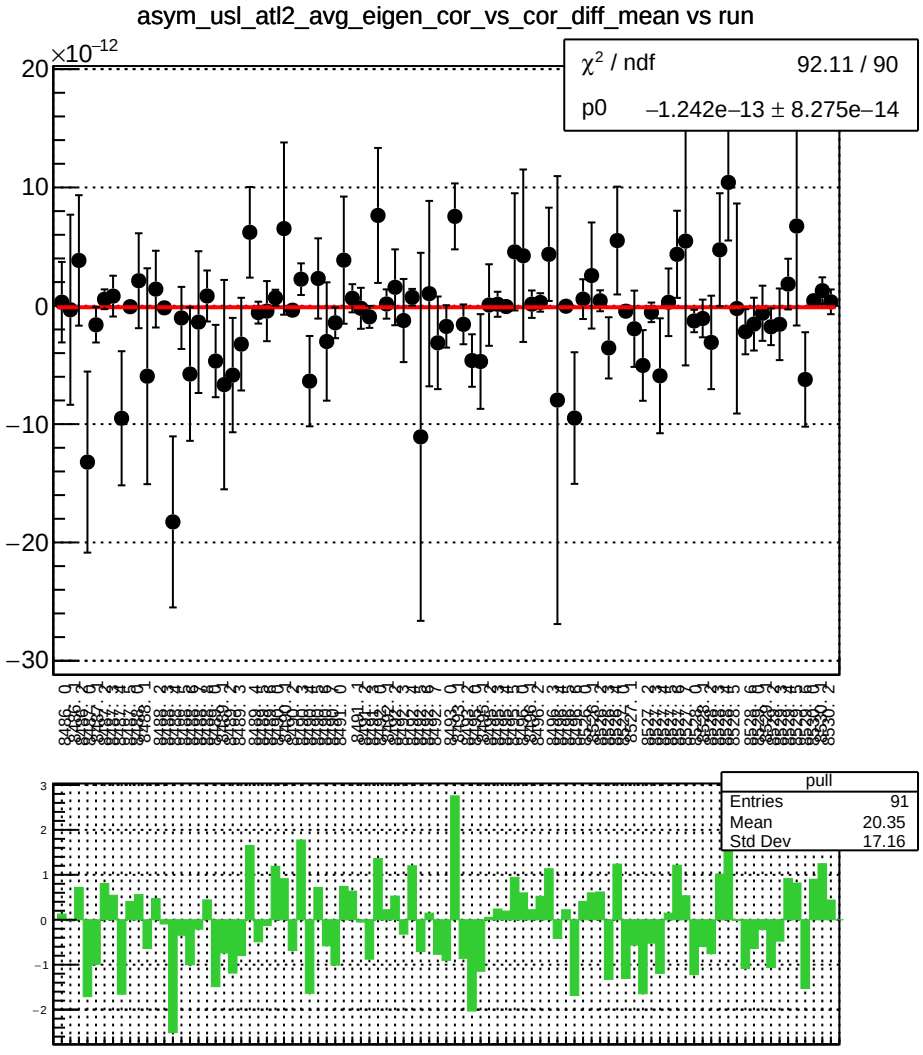

pull1D
Entries 91
Mean 0.07232
Std Dev 0.9056

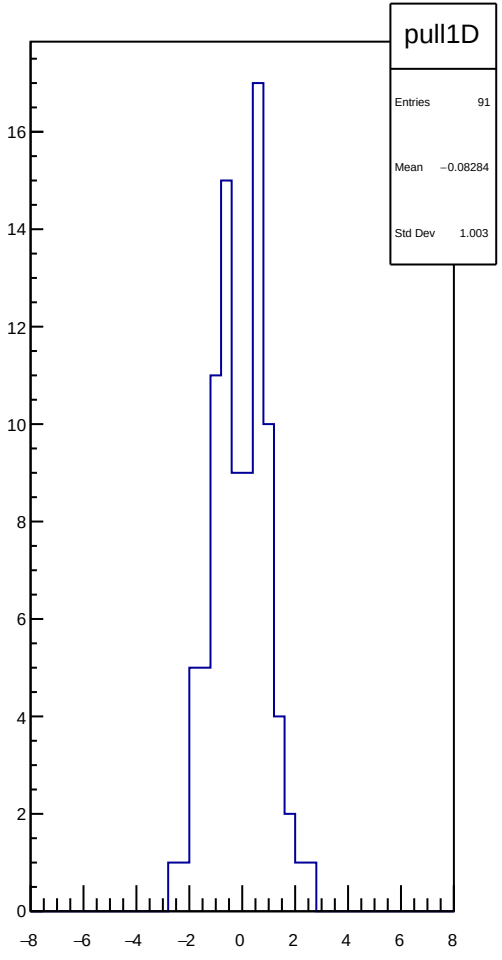

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.193e+05 / 90
p0 399.1 ± 0.3226
1000
900
800
700
600
500
400
300
200

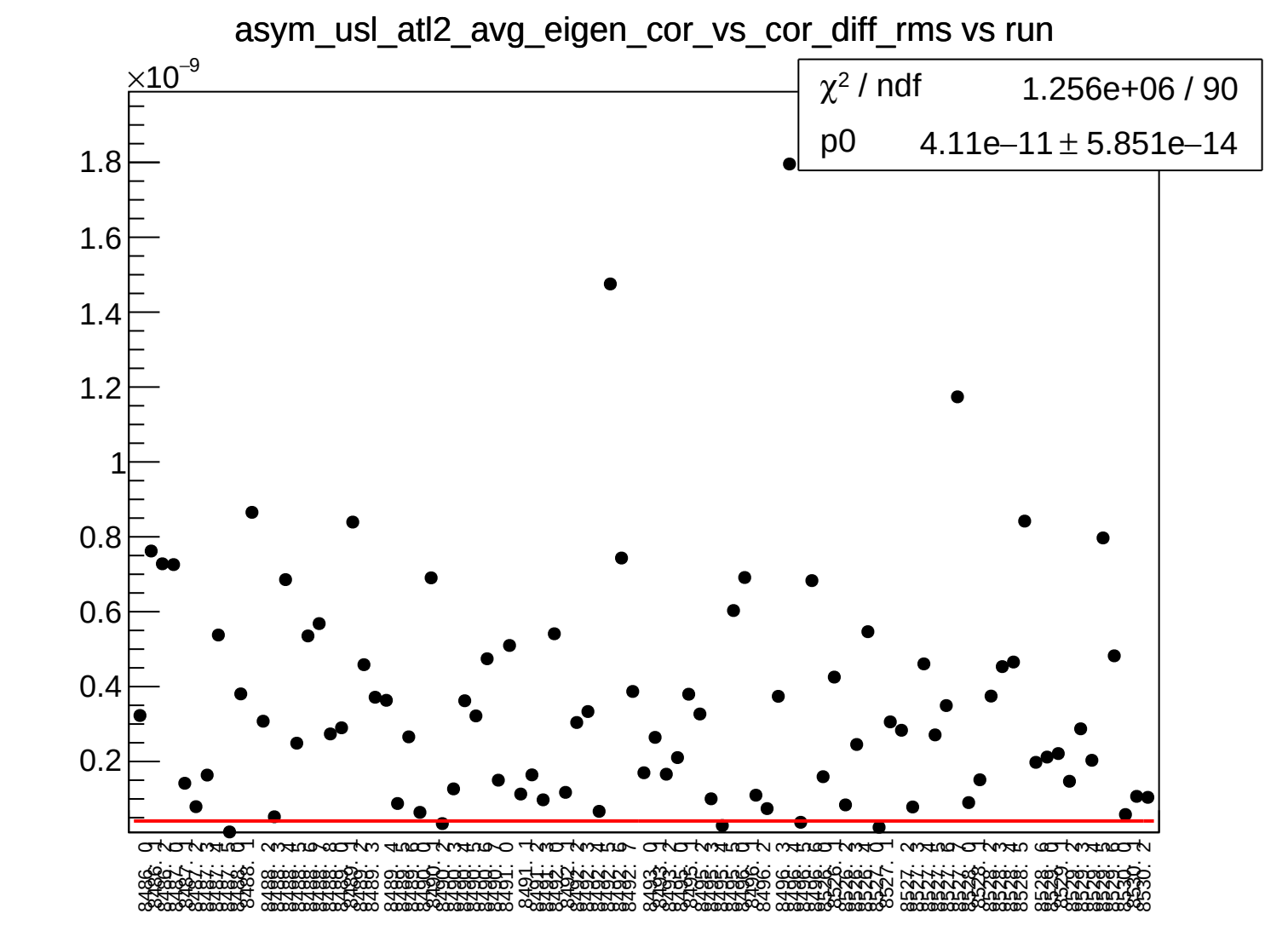

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.11 / 90
p0 0.7286 ± 0.4563
pull
Entries 91
Mean 12.59
Std Dev 11.02

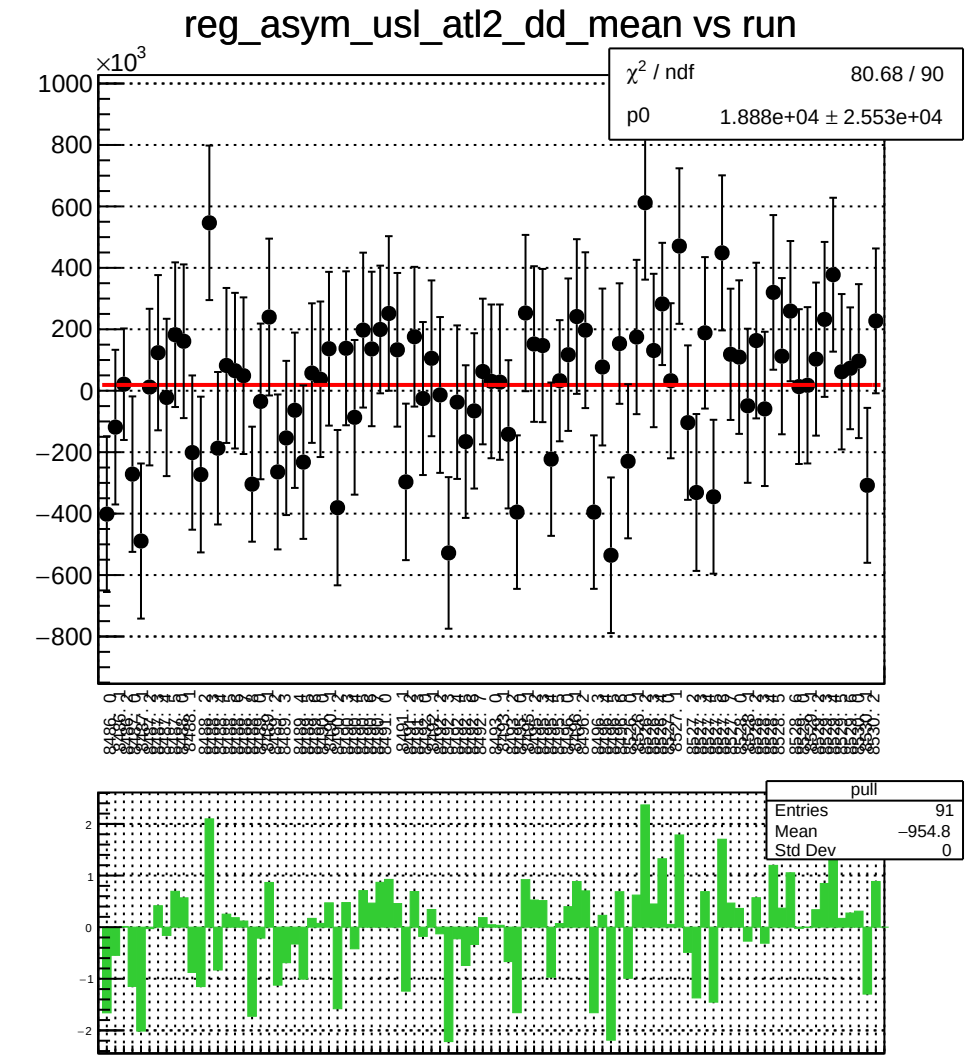

pull1D
Entries 91
Mean 0.07232
Std Dev 0.9056

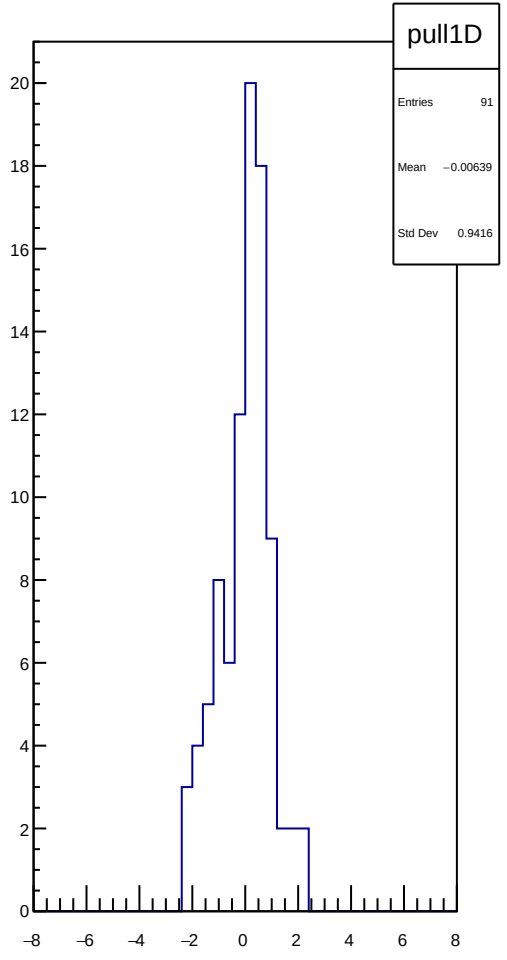

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.193e+05 / 90
p0 399.1 ± 0.3226
1000
900
800
700
600
500
400
300
200

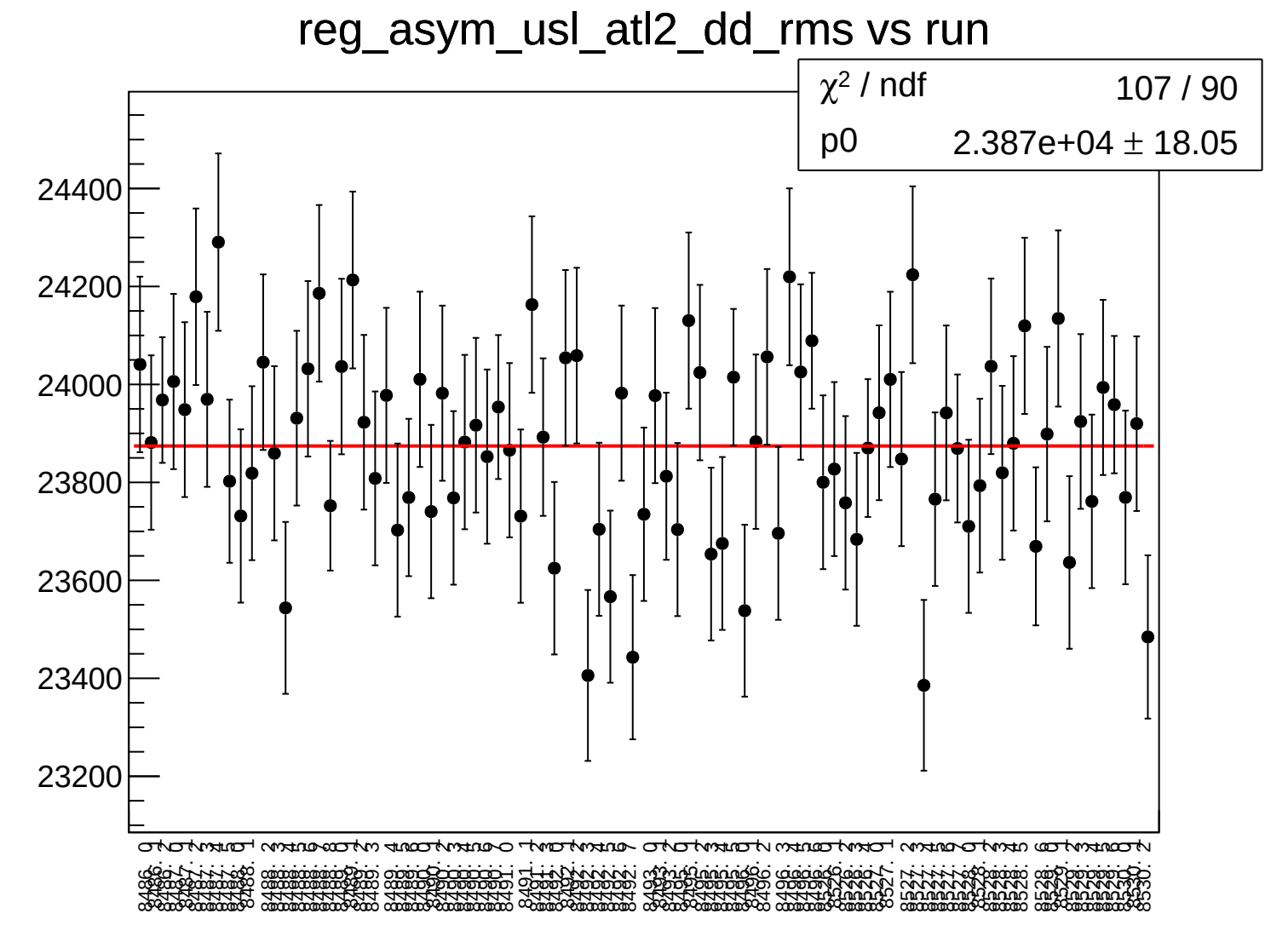

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.11 / 90
p0 −1.242e−13 ± 8.275e−14
pull
Entries 91
Mean 20.35
Std Dev 17.16

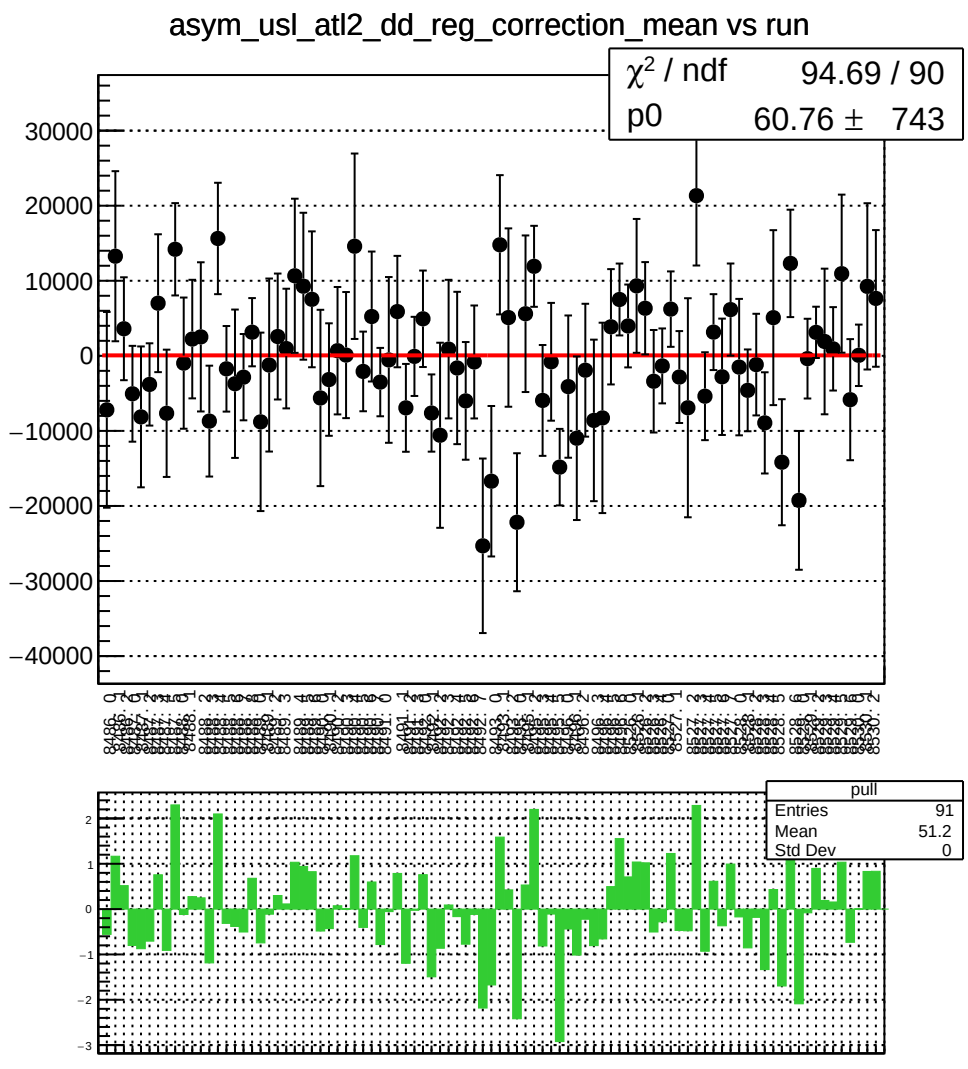

pull1D
Entries 91
Mean −0.08284
Std Dev 1.003

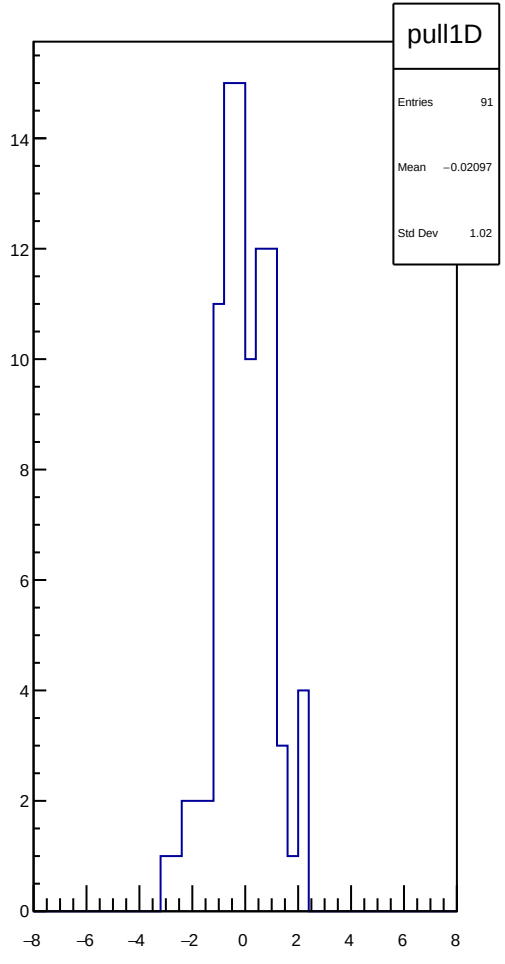

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.256e+06 / 90
p0 4.11e−11 ± 5.851e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

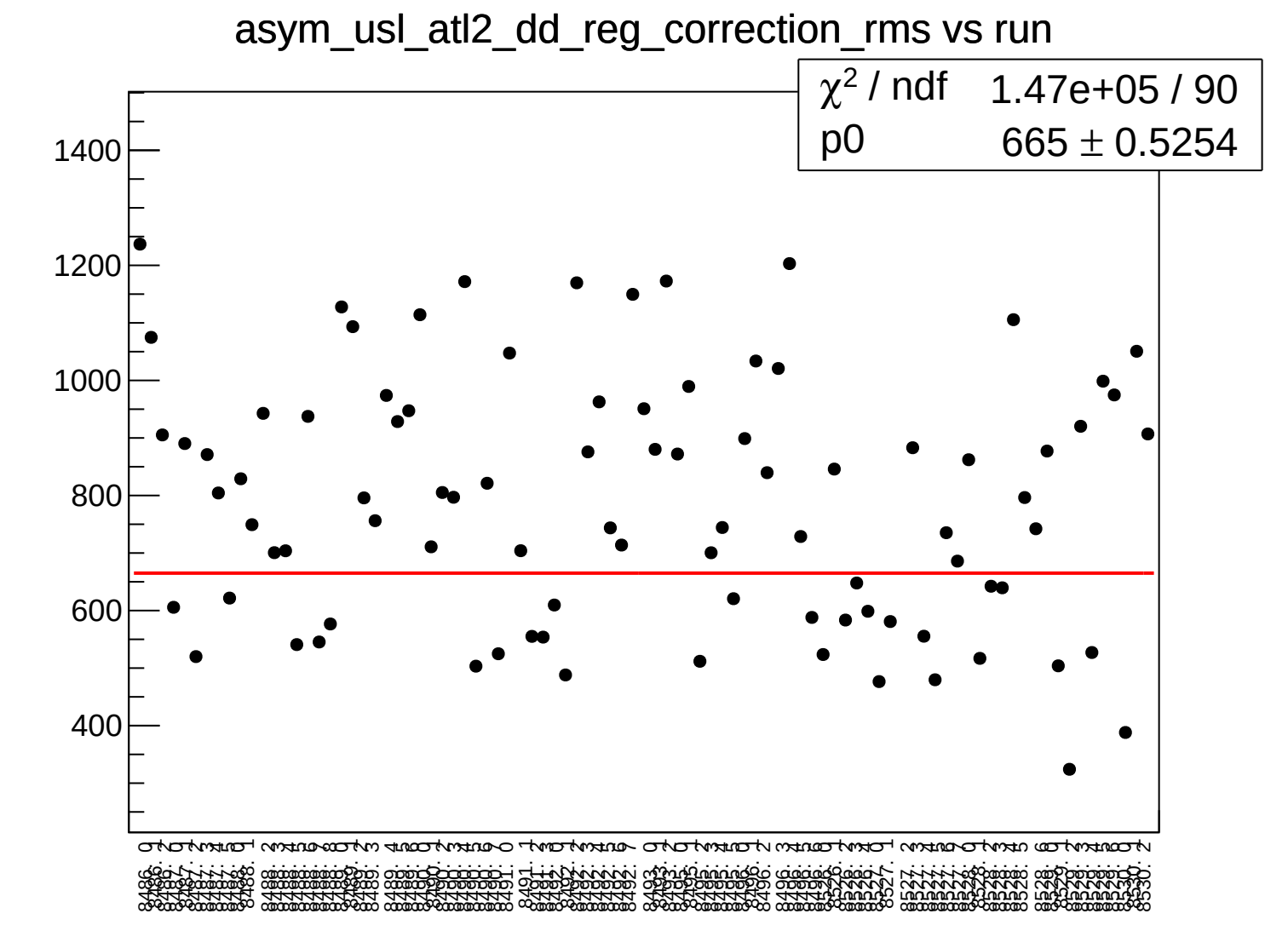

reg_asym_usl_atl2_dd_mean vs run
×10^3
χ² / ndf 80.68 / 90
p0 1.888e+04 ± 2.553e+04
pull
Entries 91
Mean −954.8
Std Dev 0

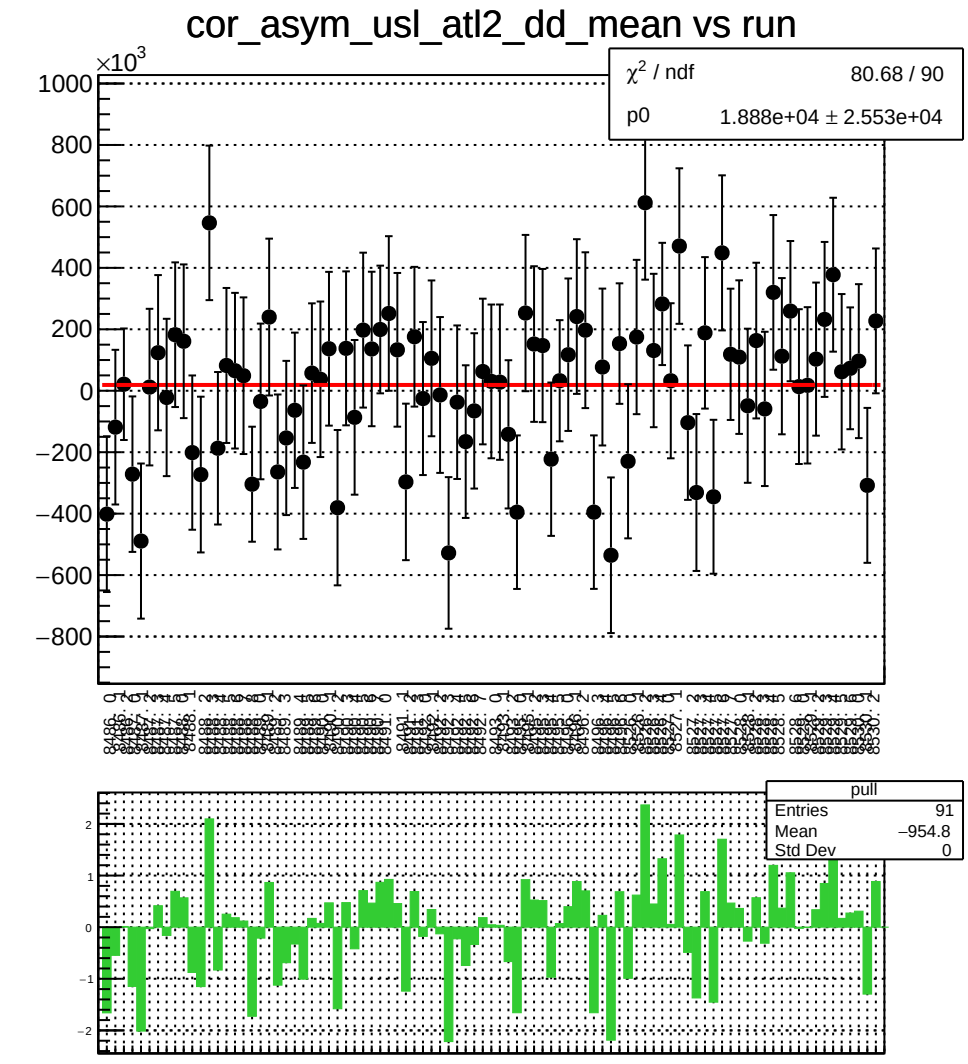

pull1D
Entries 91
Mean −0.00639
Std Dev 0.9416

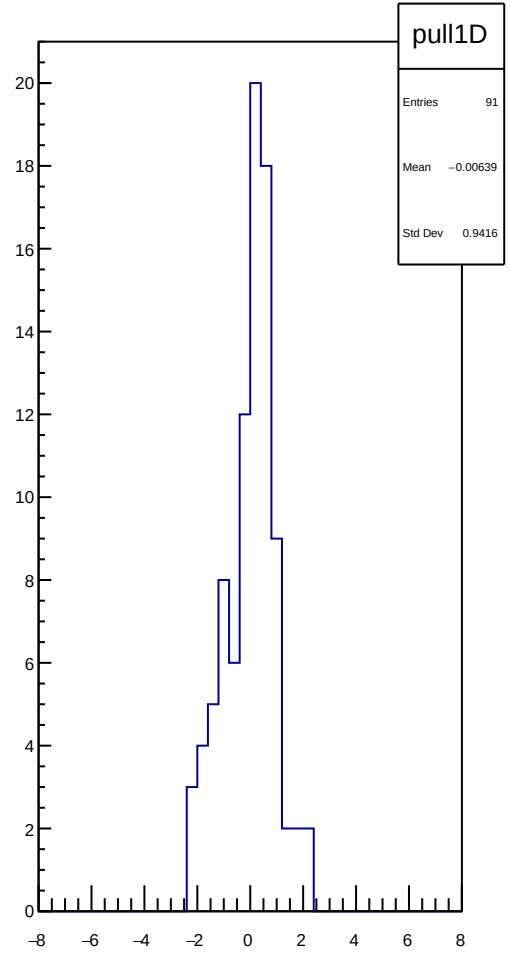

reg_asym_usl_atl2_dd_rms vs run
χ² / ndf 107 / 90
p0 2.387e+04 ± 18.05
24400
24200
24000
23800
23600
23400
23200

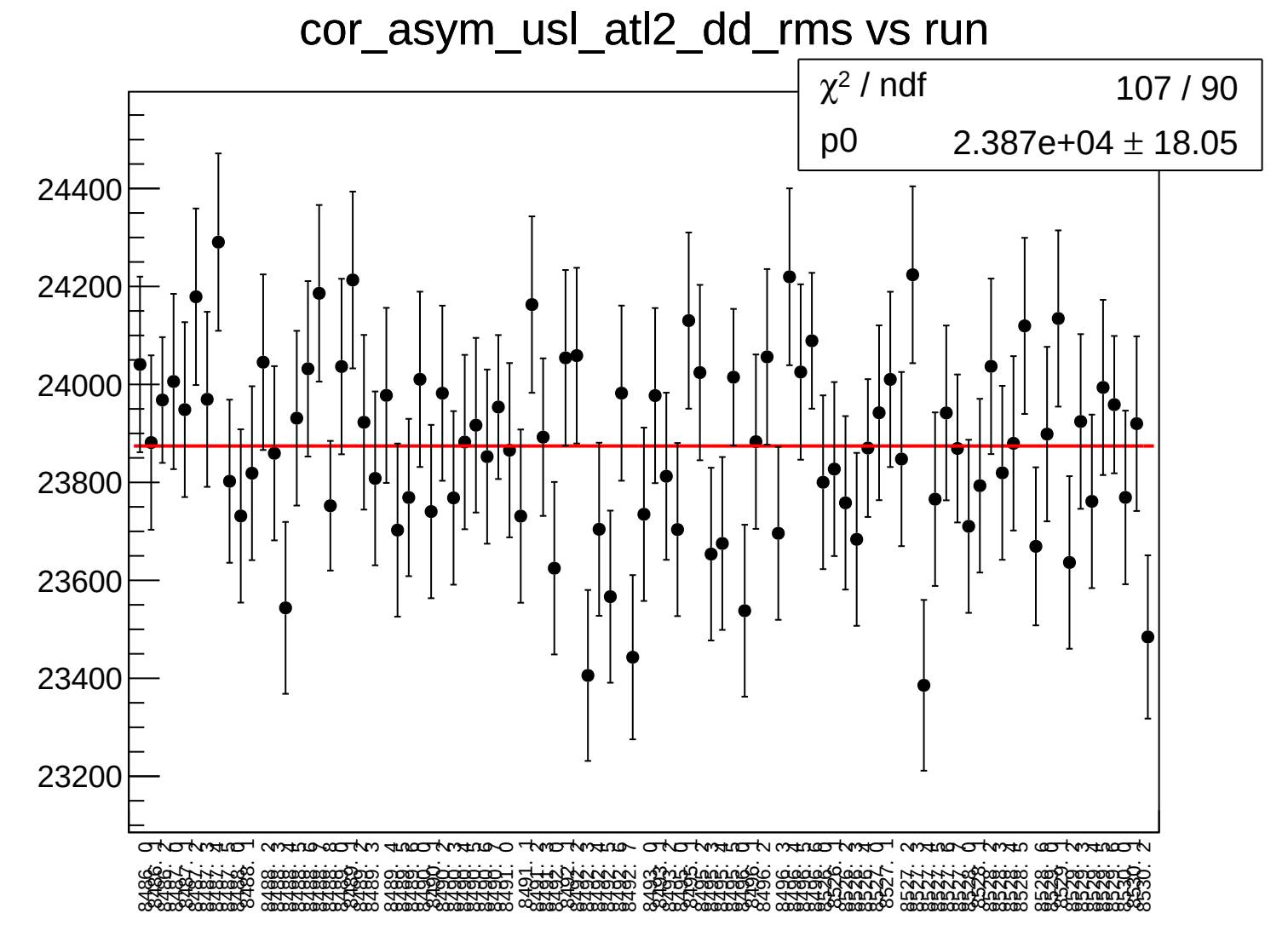

asym_usl_atl2_dd_reg_correction_mean vs run
χ² / ndf 94.69 / 90
p0 60.76 ± 743
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean 51.2
Std Dev 0
2
1
0
−1
−2
−3

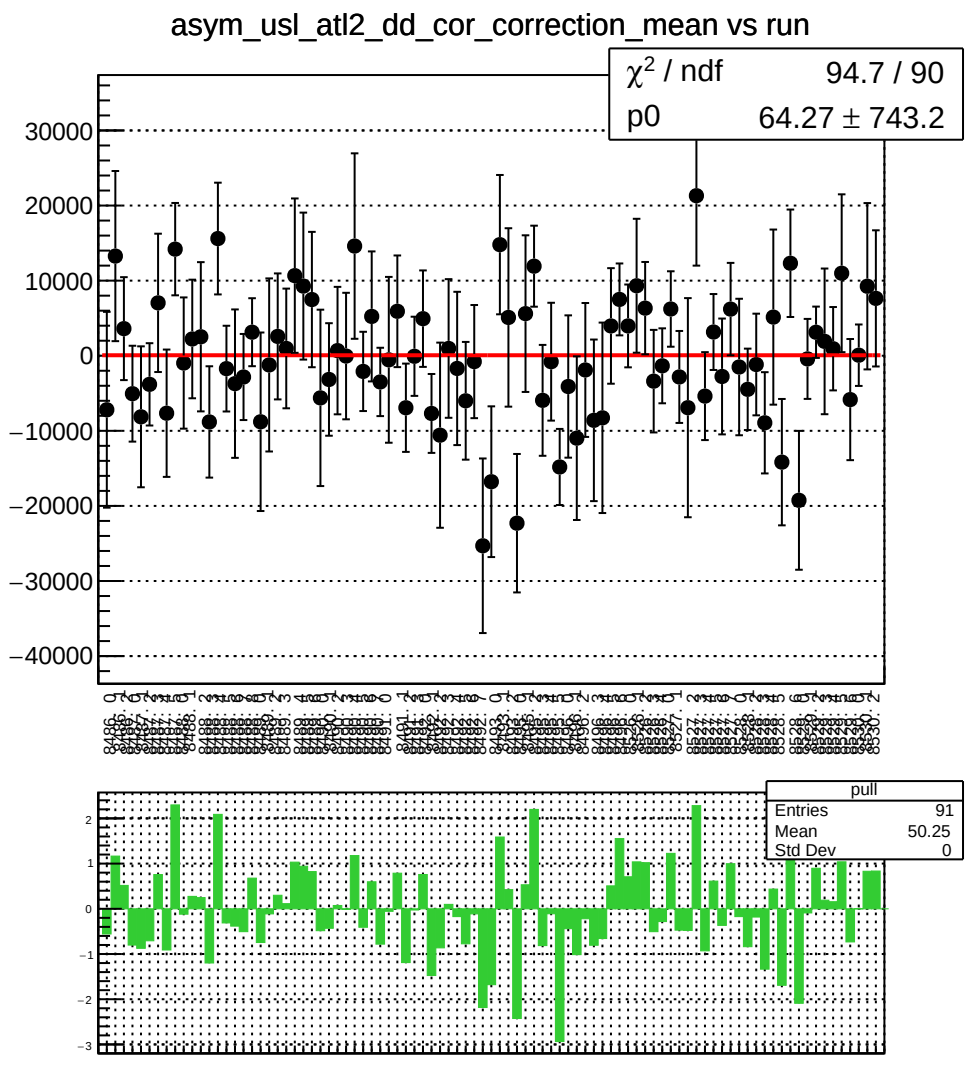

pull1D
Entries 91
Mean −0.02097
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

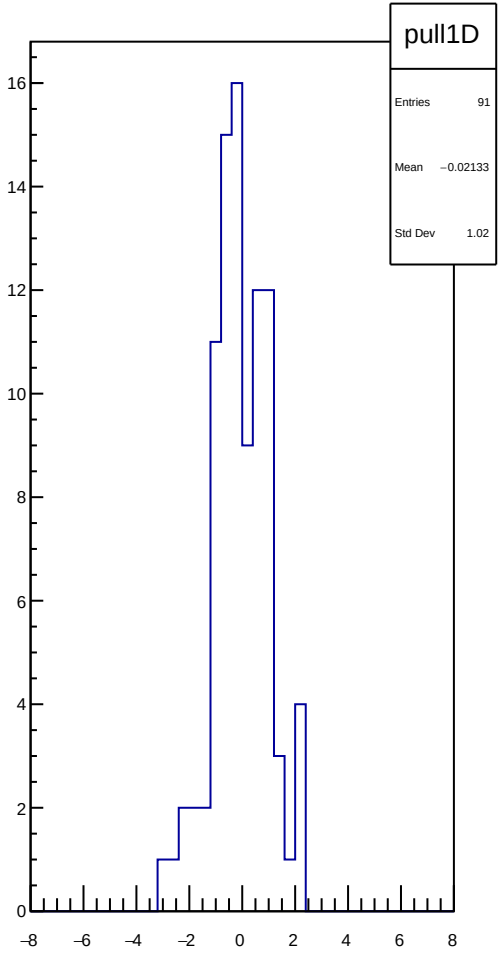

asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 1.47e+05 / 90
p0 665 ± 0.5254
1400
1200
1000
800
600
400

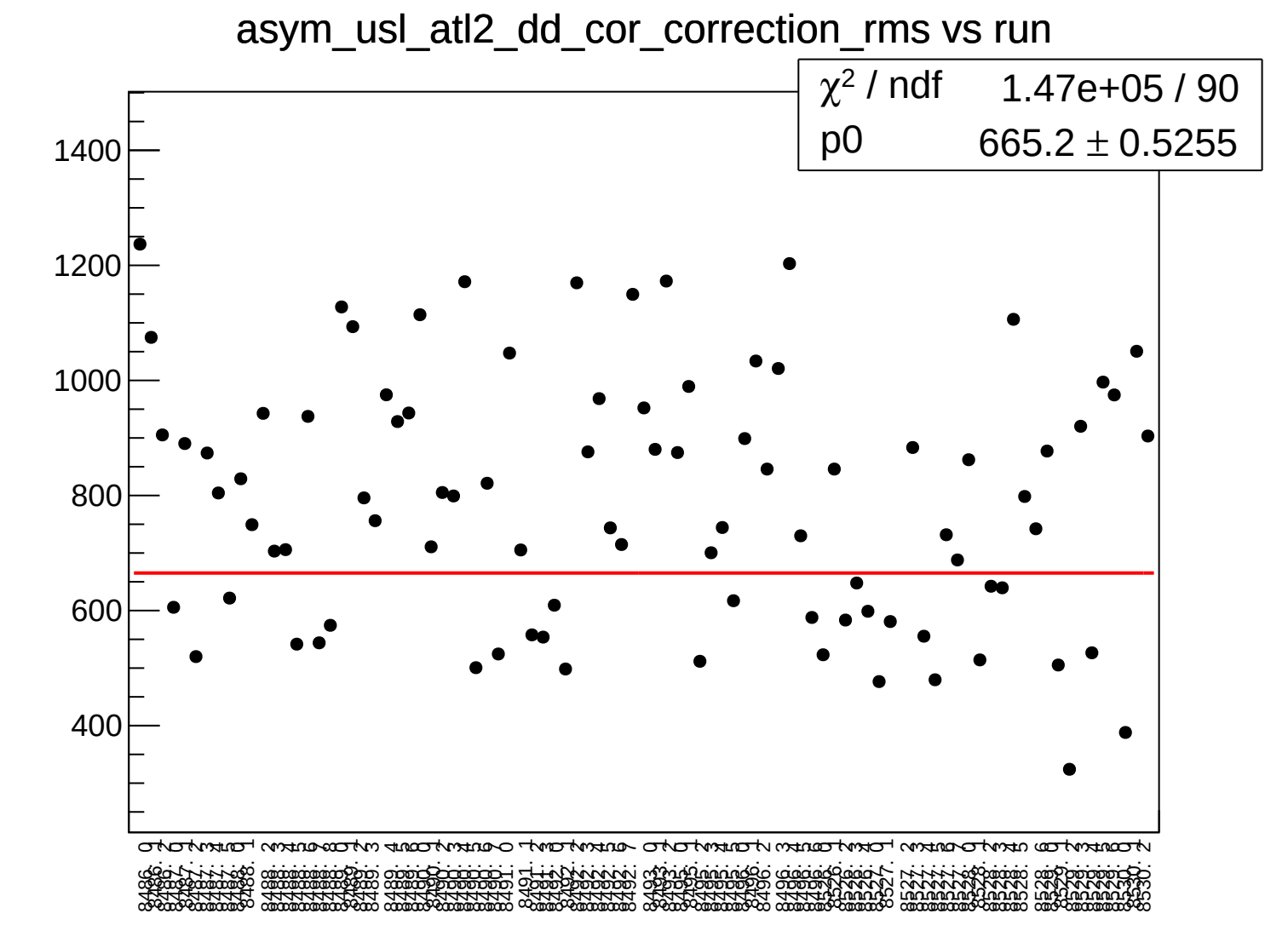

cor_asym_usl_atl2_dd_mean vs run
×10^3
χ² / ndf 80.68 / 90
p0 1.888e+04 ± 2.553e+04
pull
Entries 91
Mean −954.8
Std Dev 0

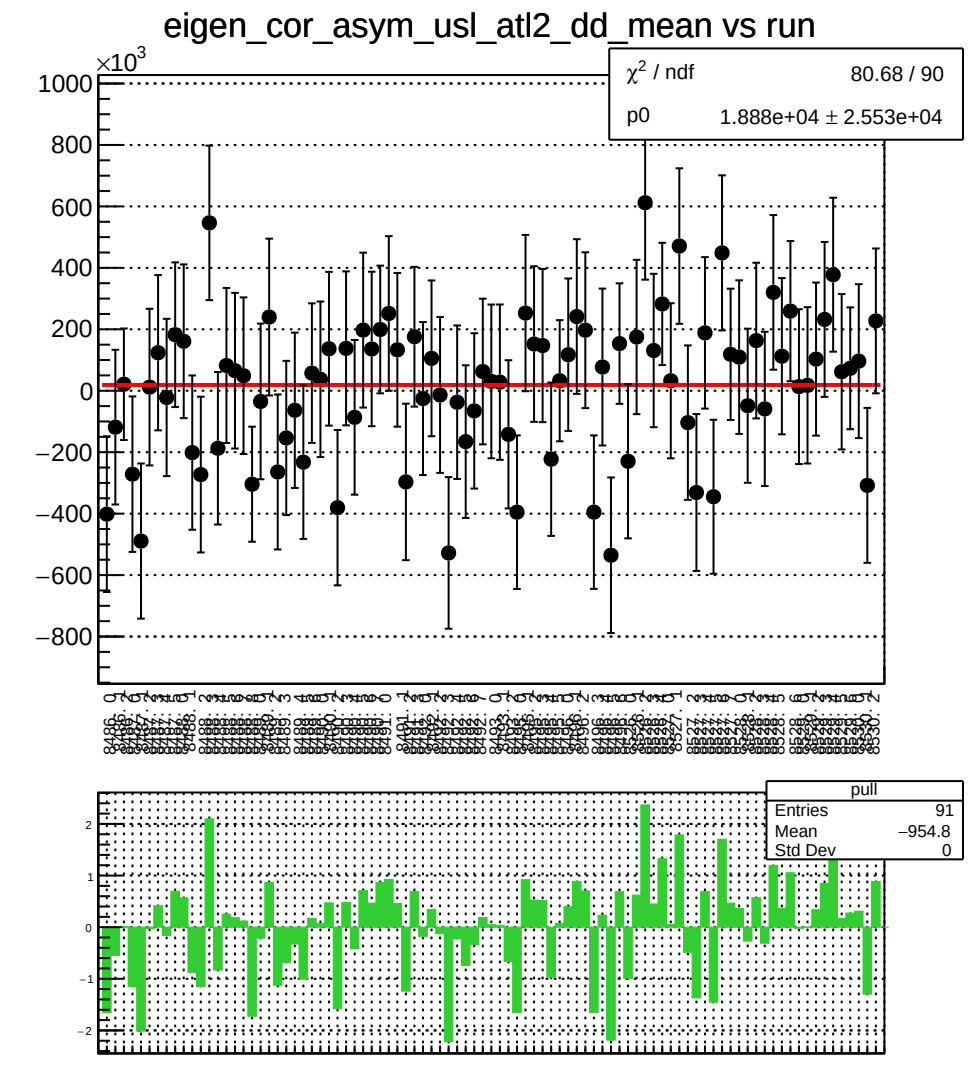

pull1D
Entries 91
Mean −0.00639
Std Dev 0.9416

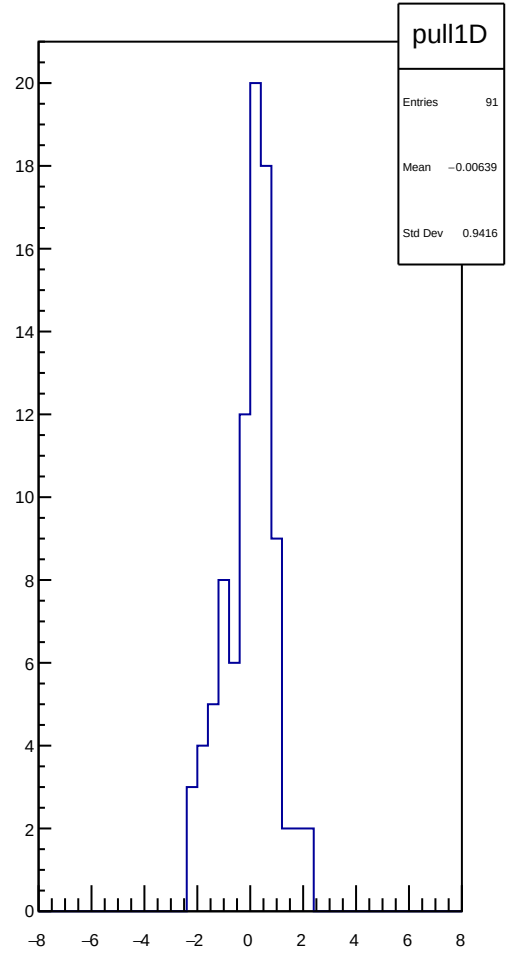

cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 107 / 90
p0 2.387e+04 ± 18.05
24400
24200
24000
23800
23600
23400
23200

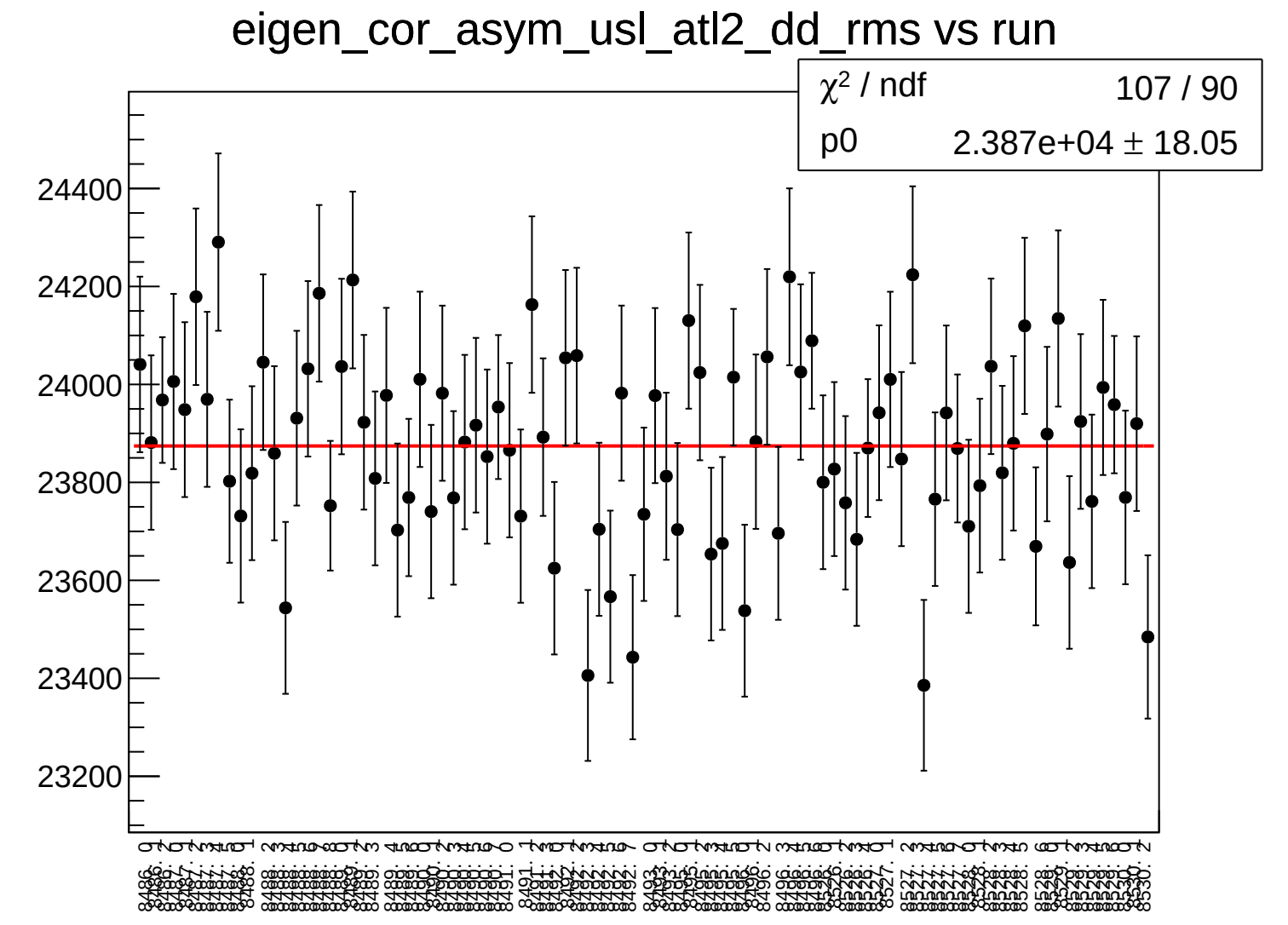

asym_usl_atl2_dd_cor_correction_mean vs run
χ² / ndf 94.7 / 90
p0 64.27 ± 743.2
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean 50.25
Std Dev 0
2
1
0
−1
−2
−3

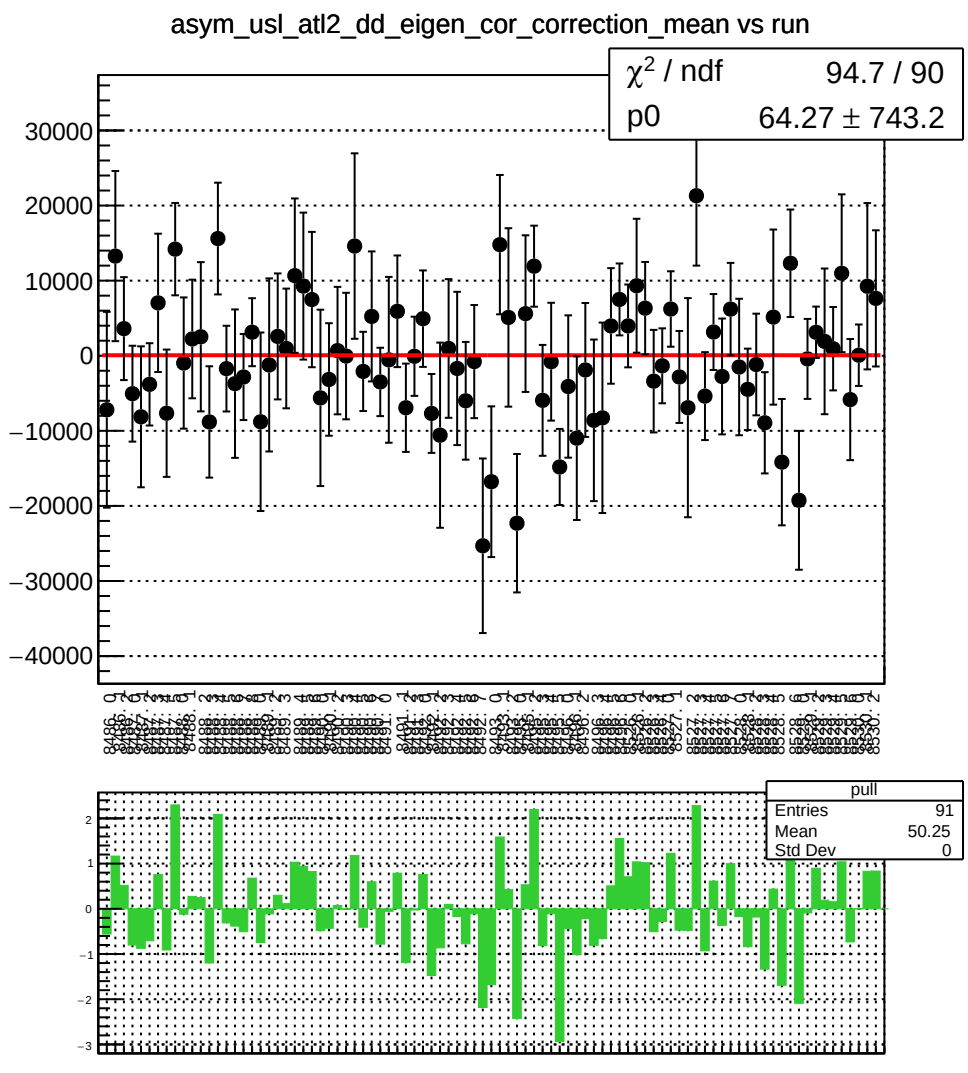

pull1D
Entries 91
Mean −0.02133
Std Dev 1.02
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

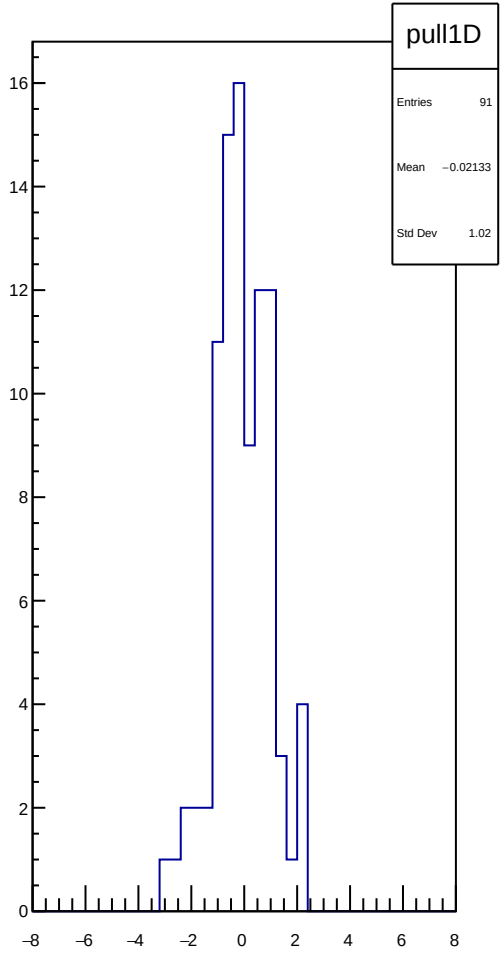

asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 1.47e+05 / 90
p0 665.2 ± 0.5255
1400
1200
1000
800
600
400

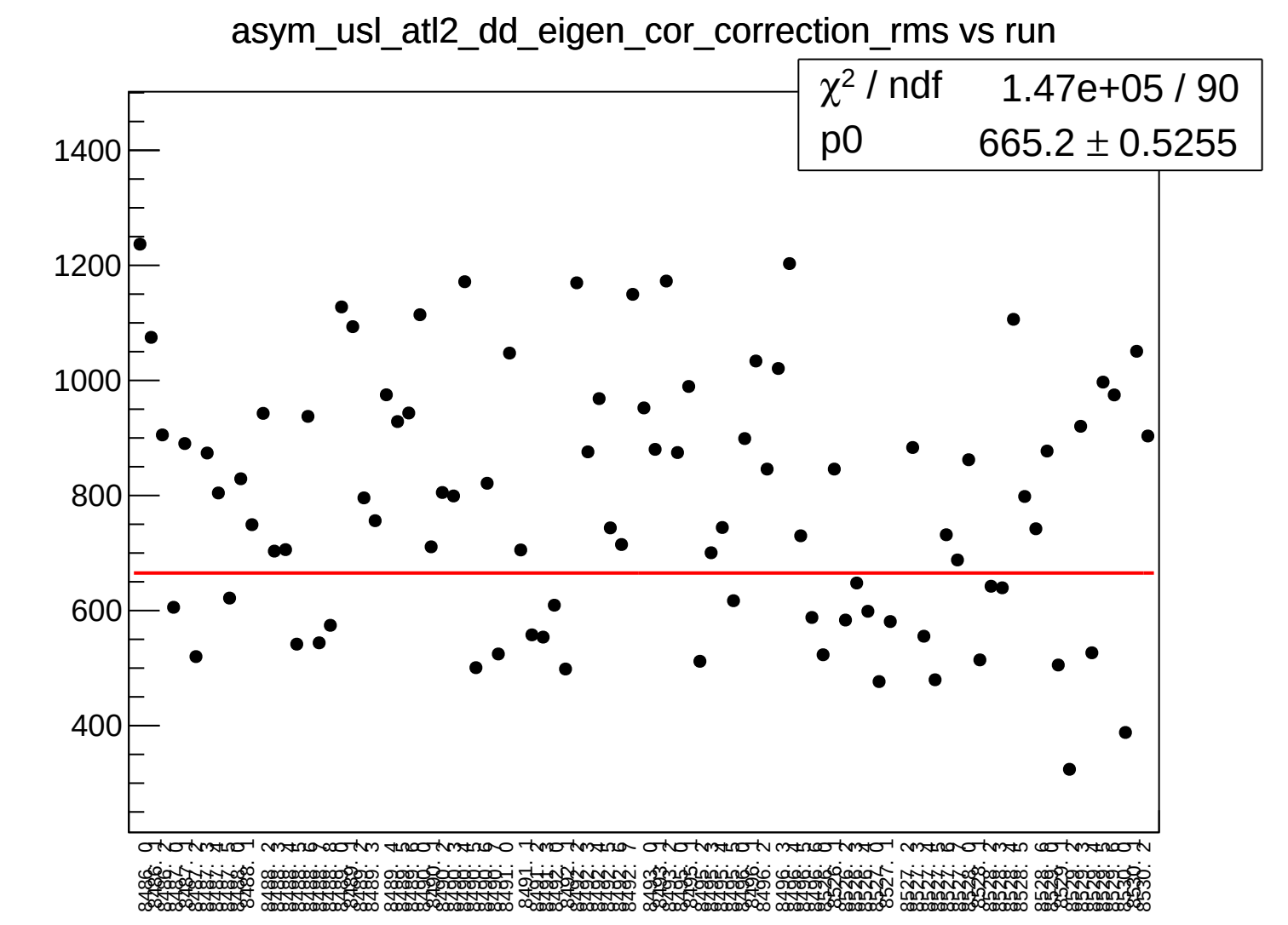

eigen_cor_asym_usl_atl2_dd_mean vs run
×10^3
χ² / ndf 80.68 / 90
p0 1.888e+04 ± 2.553e+04
pull
Entries 91
Mean −954.8
Std Dev 0

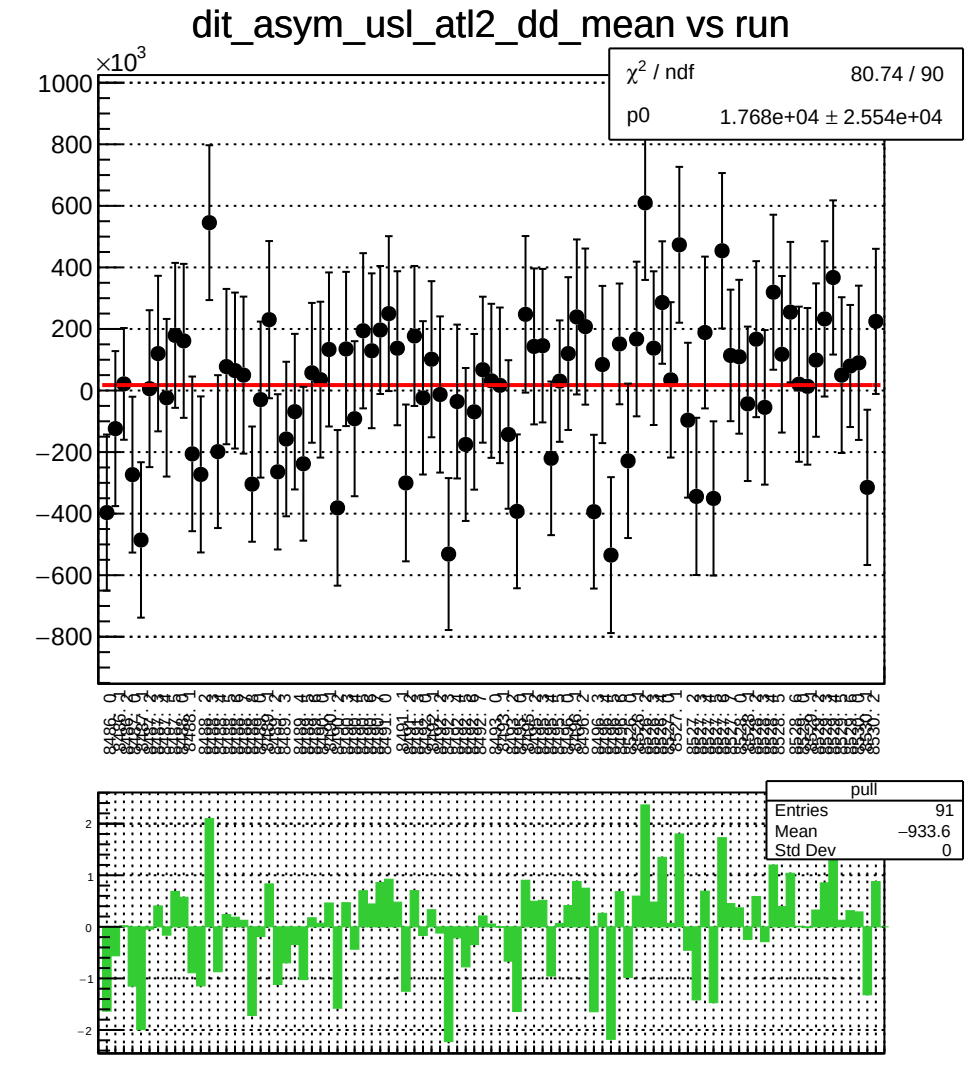

pull1D
Entries 91
Mean −0.00639
Std Dev 0.9416

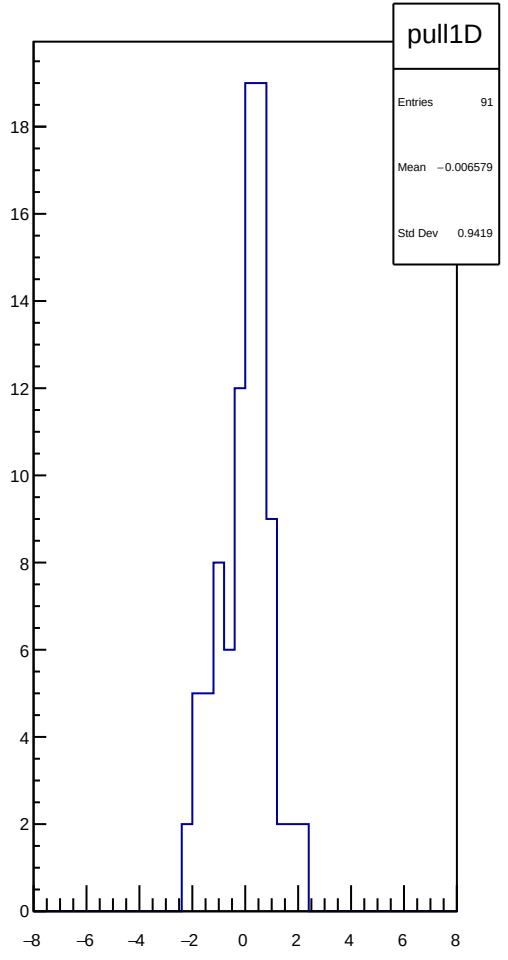

eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 107 / 90
p0 2.387e+04 ± 18.05
24400
24200
24000
23800
23600
23400
23200

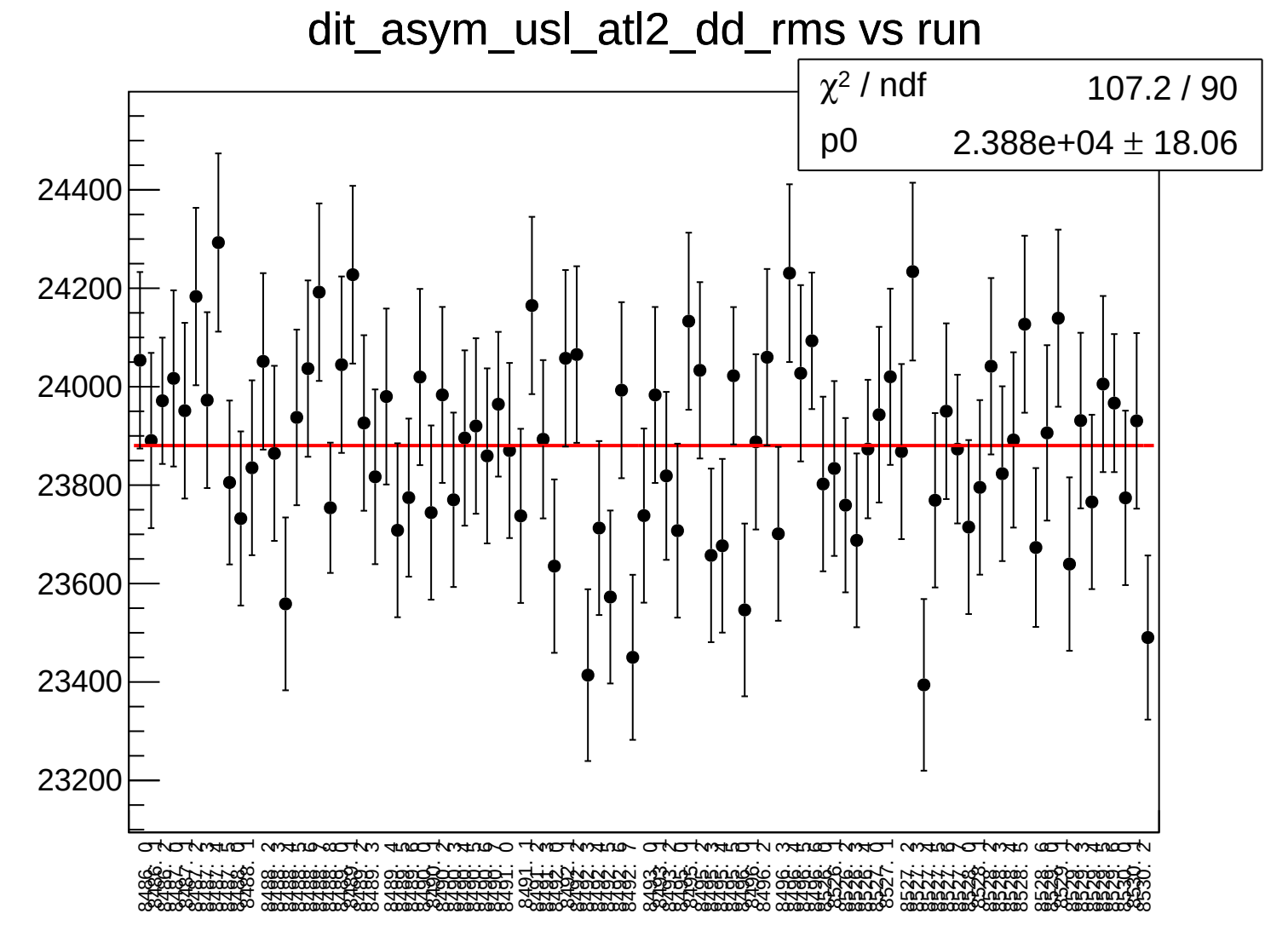

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
χ² / ndf 94.7 / 90
p0 64.27 ± 743.2
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean 50.25
Std Dev 0
2
1
0
−1
−2
−3

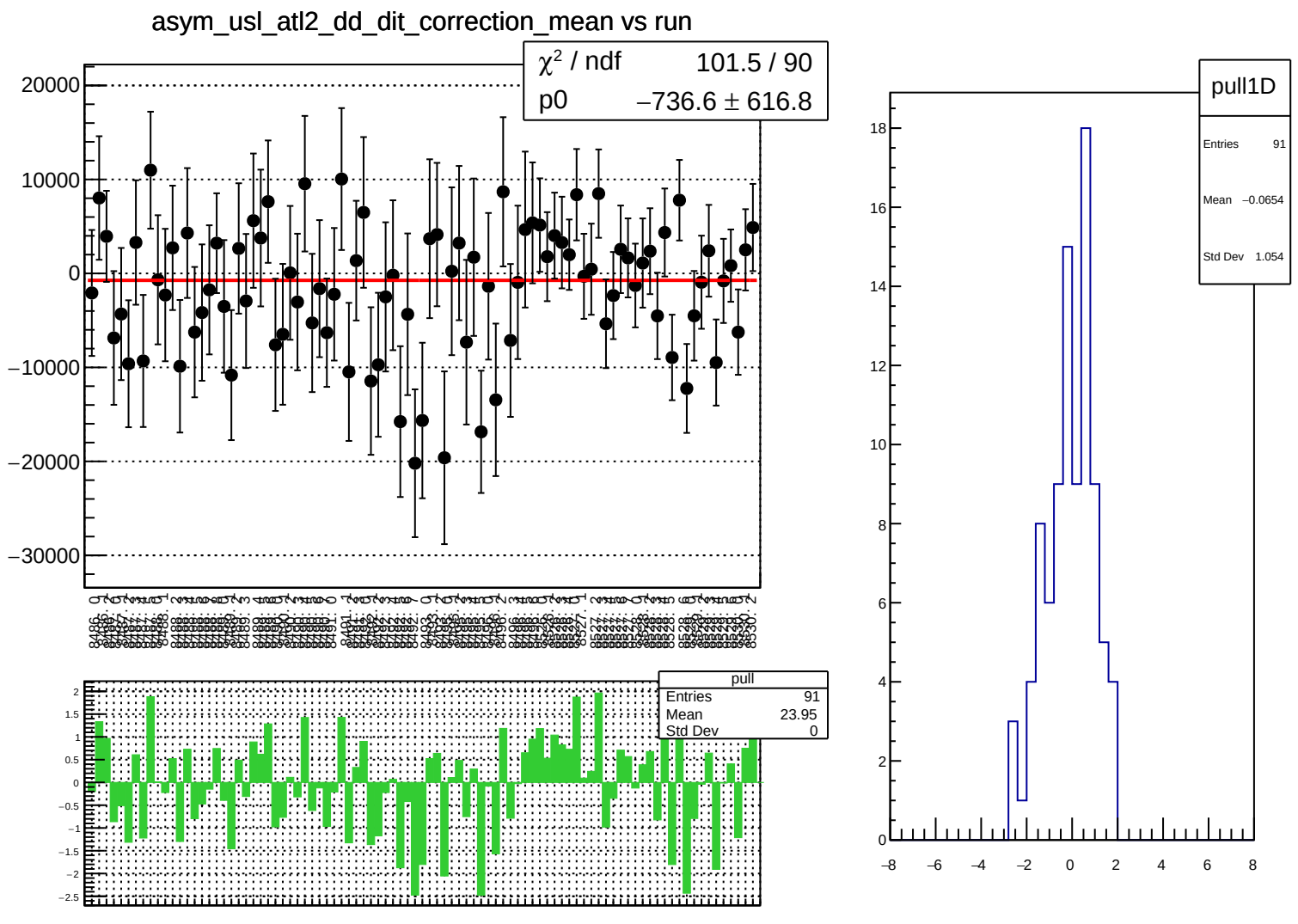

pull1D
Entries 91
Mean −0.02133
Std Dev 1.02
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

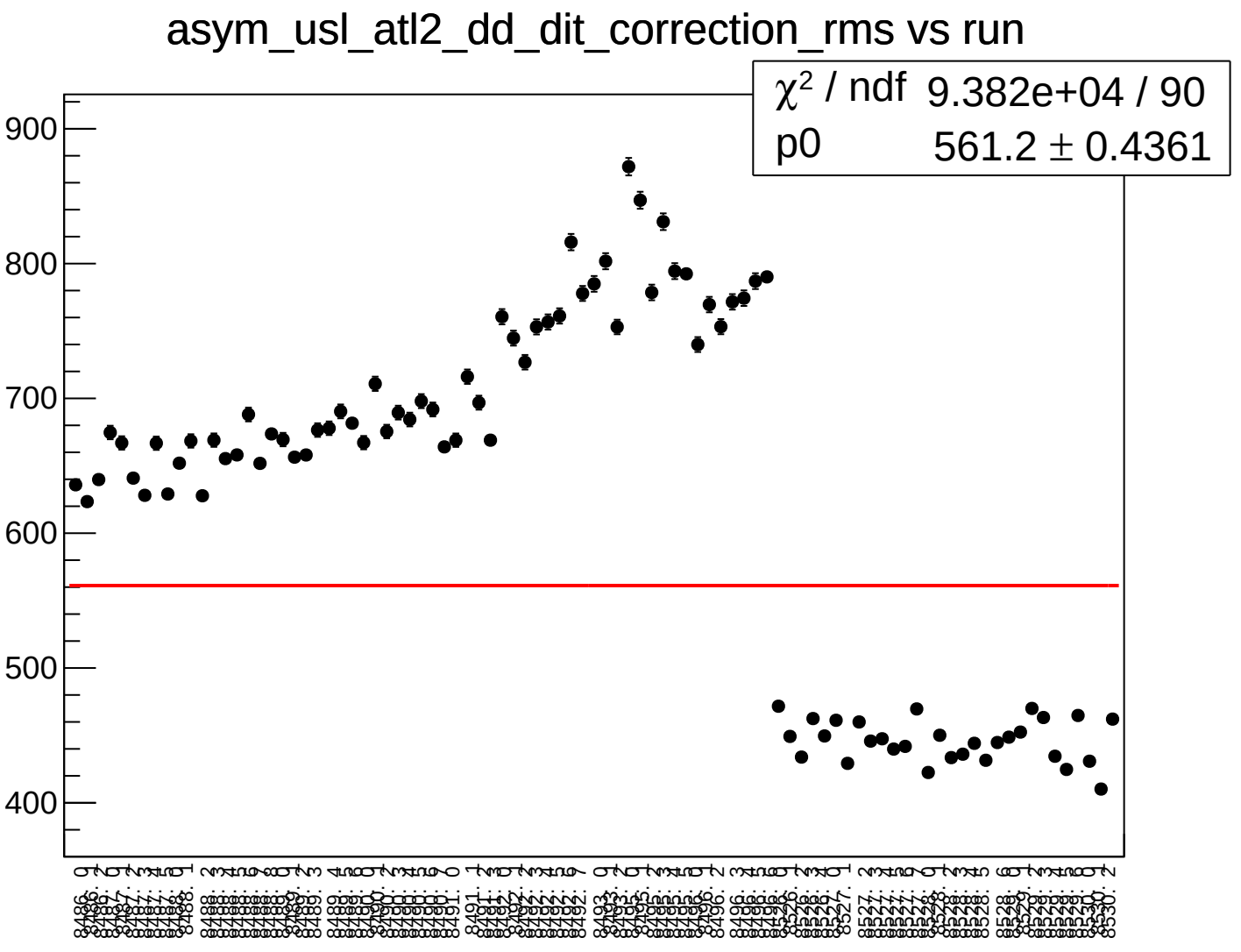

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.47e+05 / 90
p0 665.2 ± 0.5255
1400
1200
1000
800
600
400

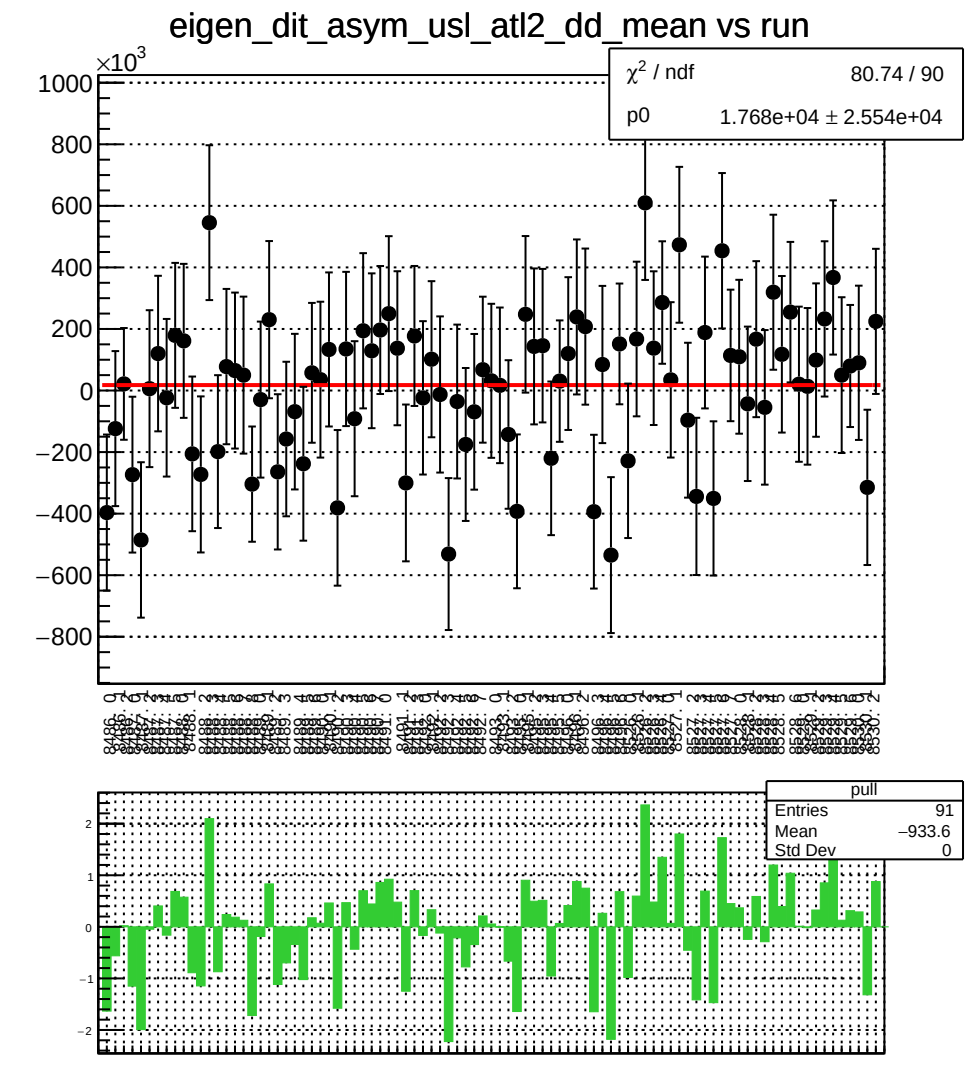

dit_asym_usl_atl2_dd_mean vs run
×10^3
χ² / ndf 80.74 / 90
p0 1.768e+04 ± 2.554e+04
pull
Entries 91
Mean −933.6
Std Dev 0

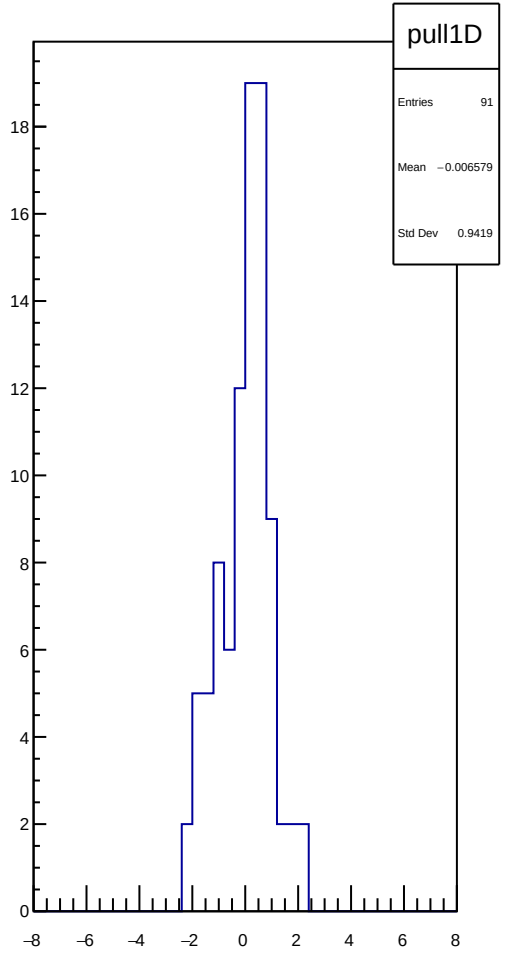

pull1D
Entries 91
Mean −0.006579
Std Dev 0.9419

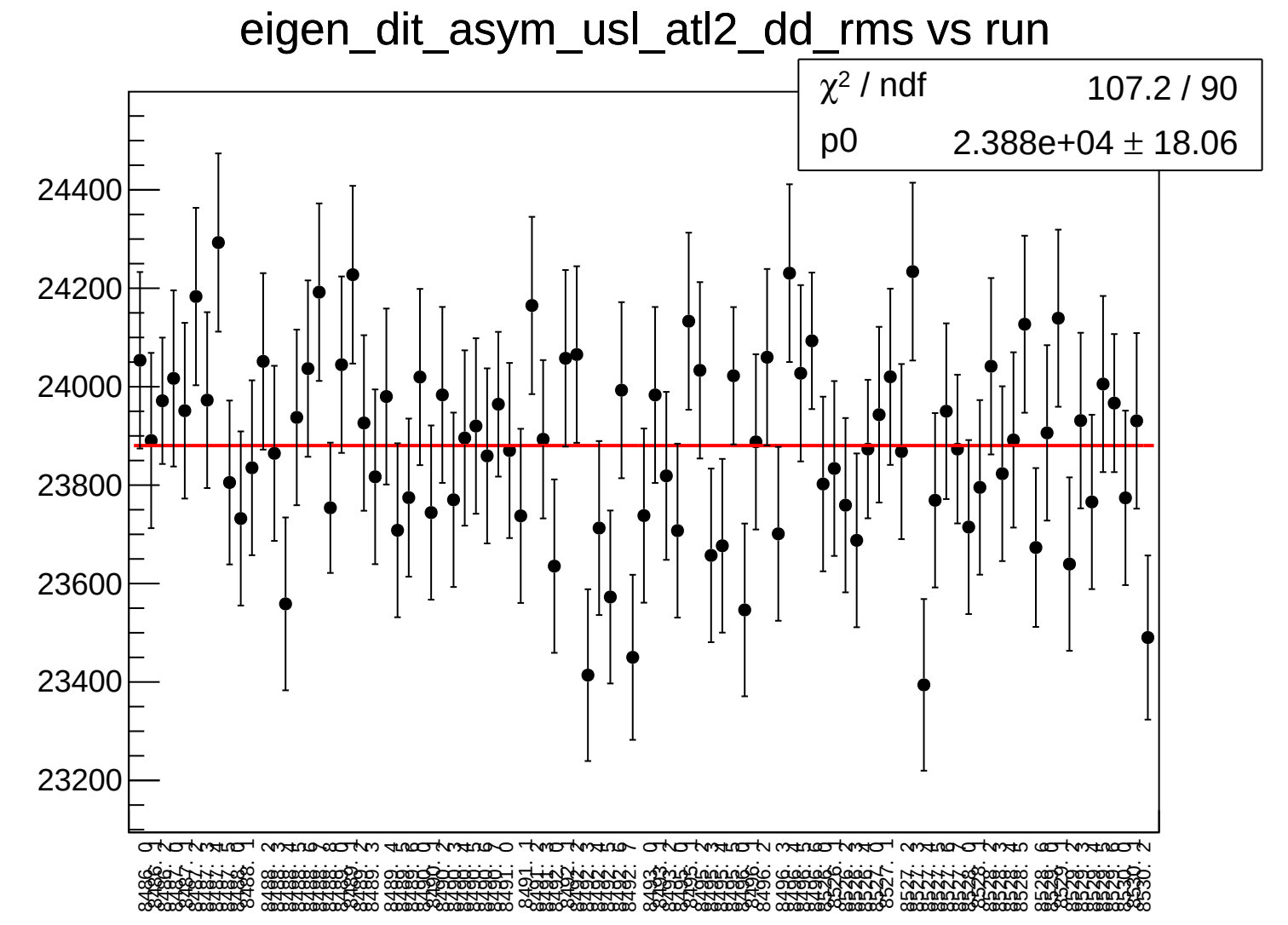

dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 107.2 / 90
p0 2.388e+04 ± 18.06
24400
24200
24000
23800
23600
23400
23200

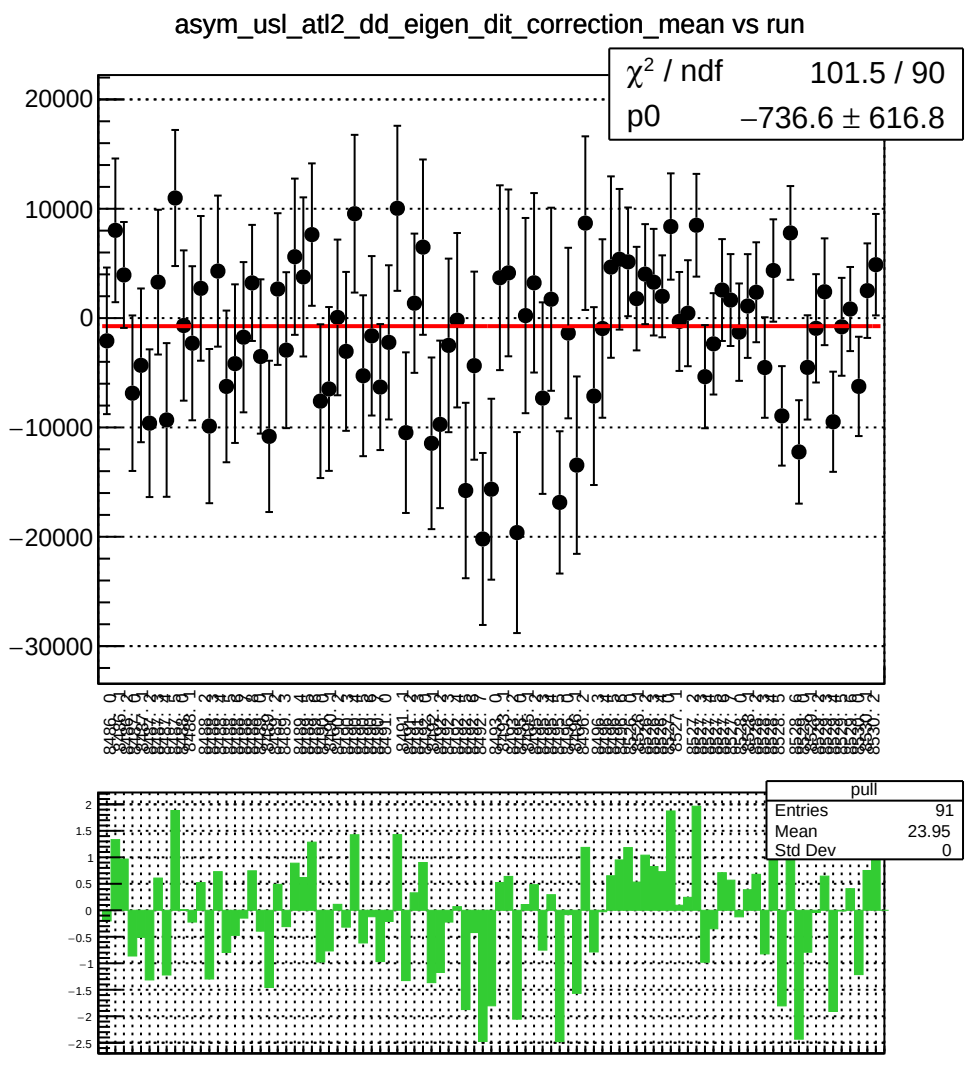

asym_usl_atl2_dd_dit_correction_mean vs run
χ² / ndf 101.5 / 90
p0 −736.6 ± 616.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 23.95
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 91
Mean −0.0654
Std Dev 1.054
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

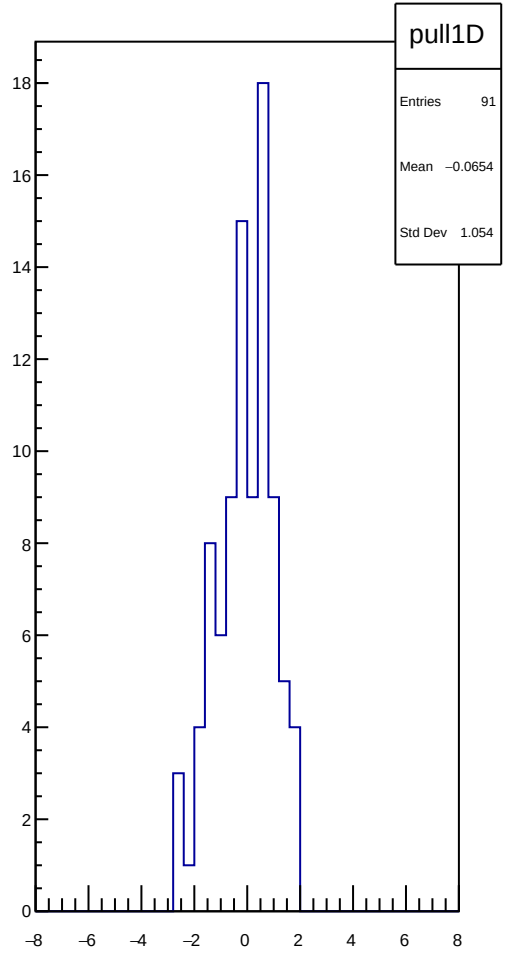

asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 9.382e+04 / 90
p0 561.2 ± 0.4361
900
800
700
600
500
400

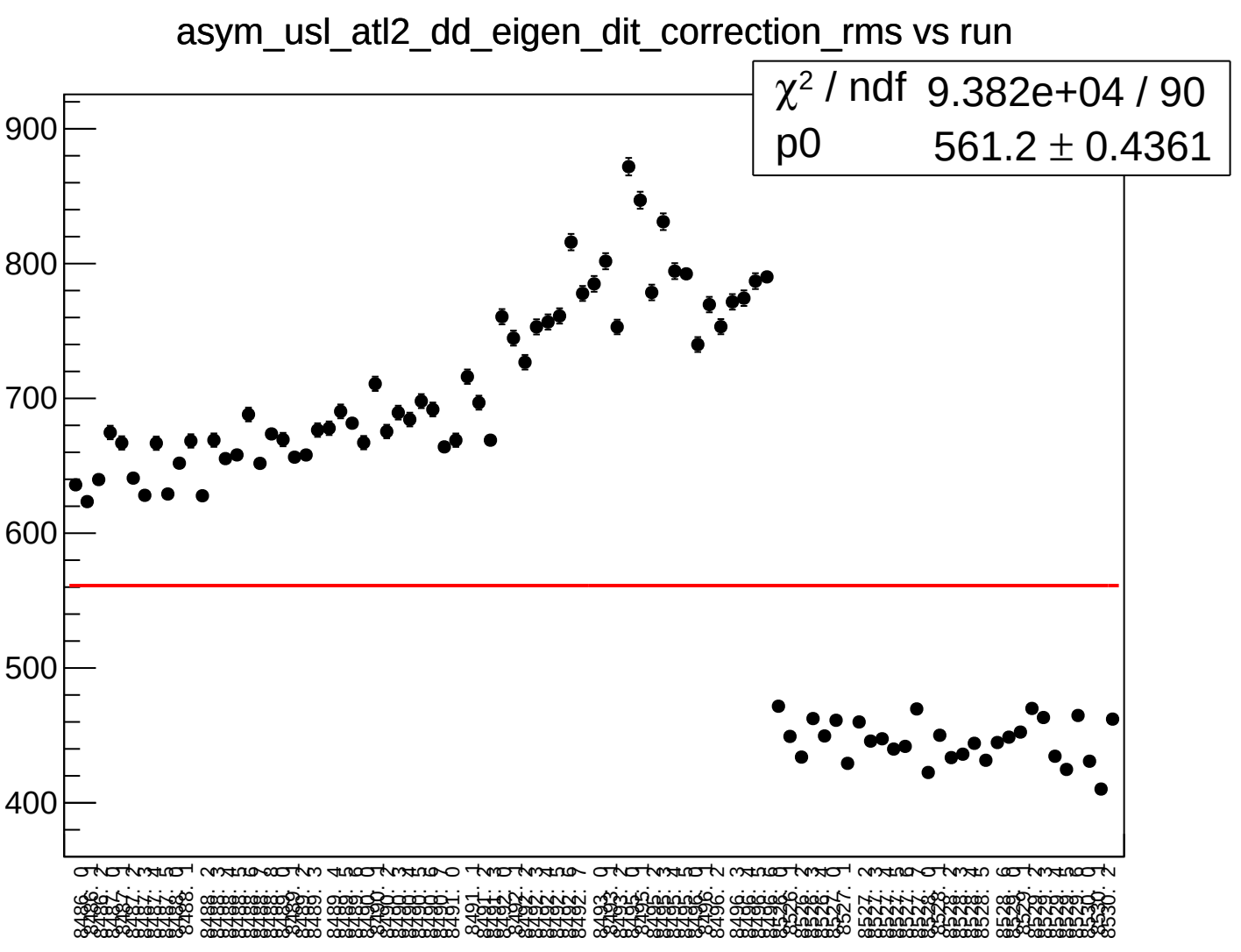

eigen_dit_asym_usl_atl2_dd_mean vs run
×10^3
χ² / ndf 80.74 / 90
p0 1.768e+04 ± 2.554e+04
pull
Entries 91
Mean −933.6
Std Dev 0

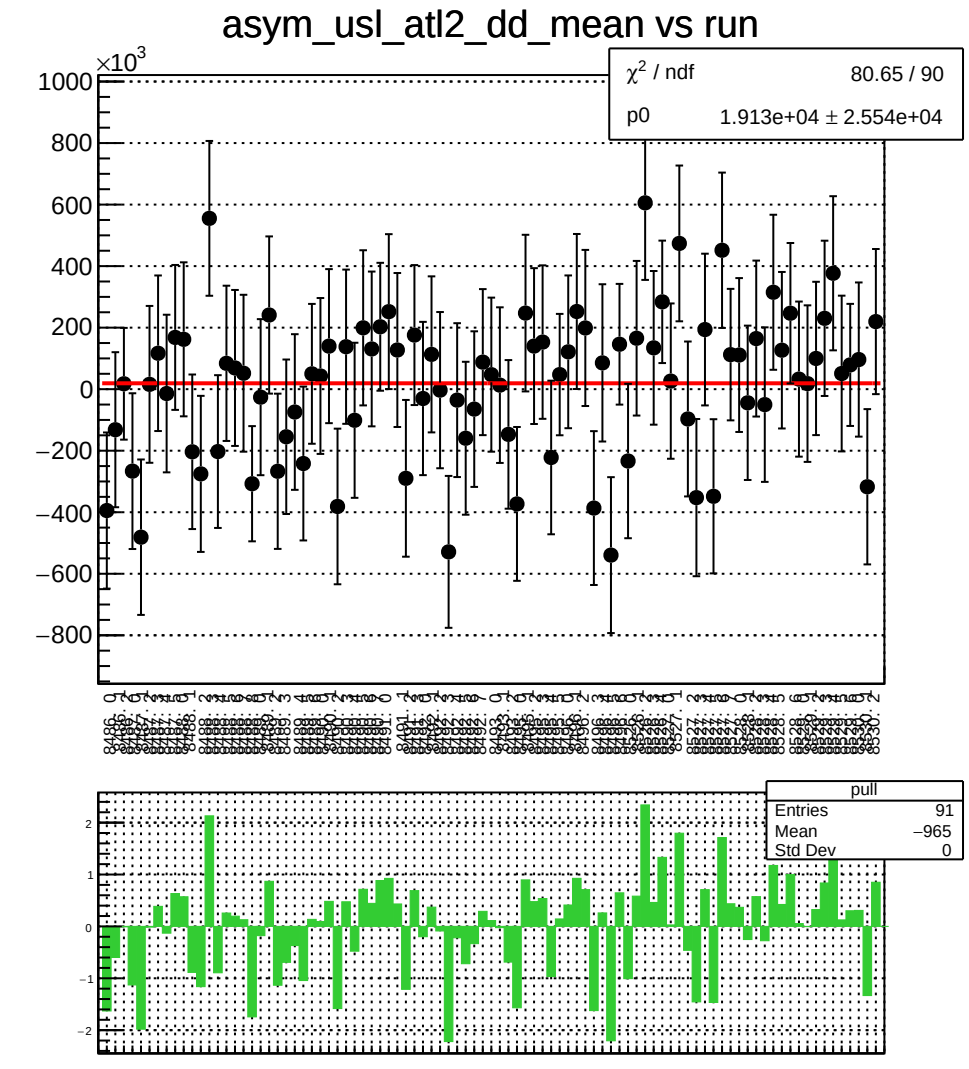

pull1D
Entries 91
Mean −0.006579
Std Dev 0.9419

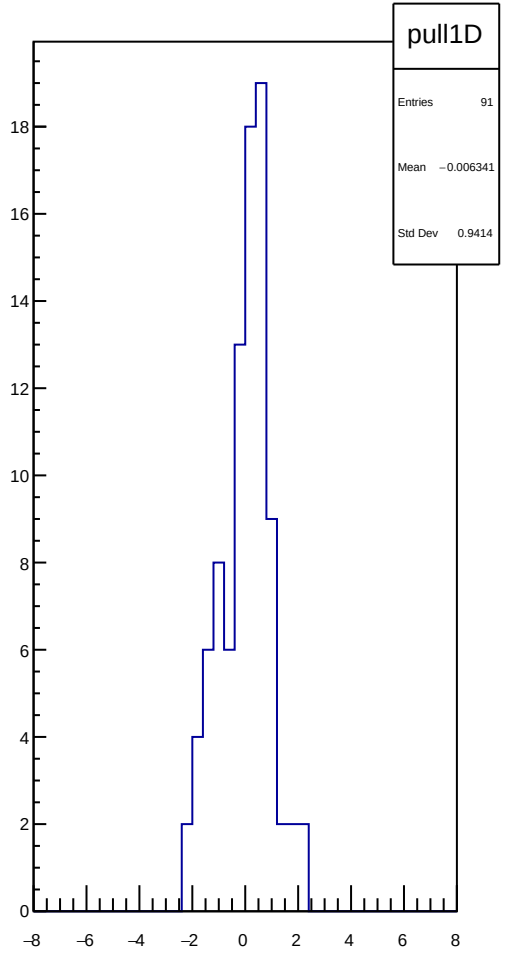

eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 107.2 / 90
p0 2.388e+04 ± 18.06
24400
24200
24000
23800
23600
23400
23200

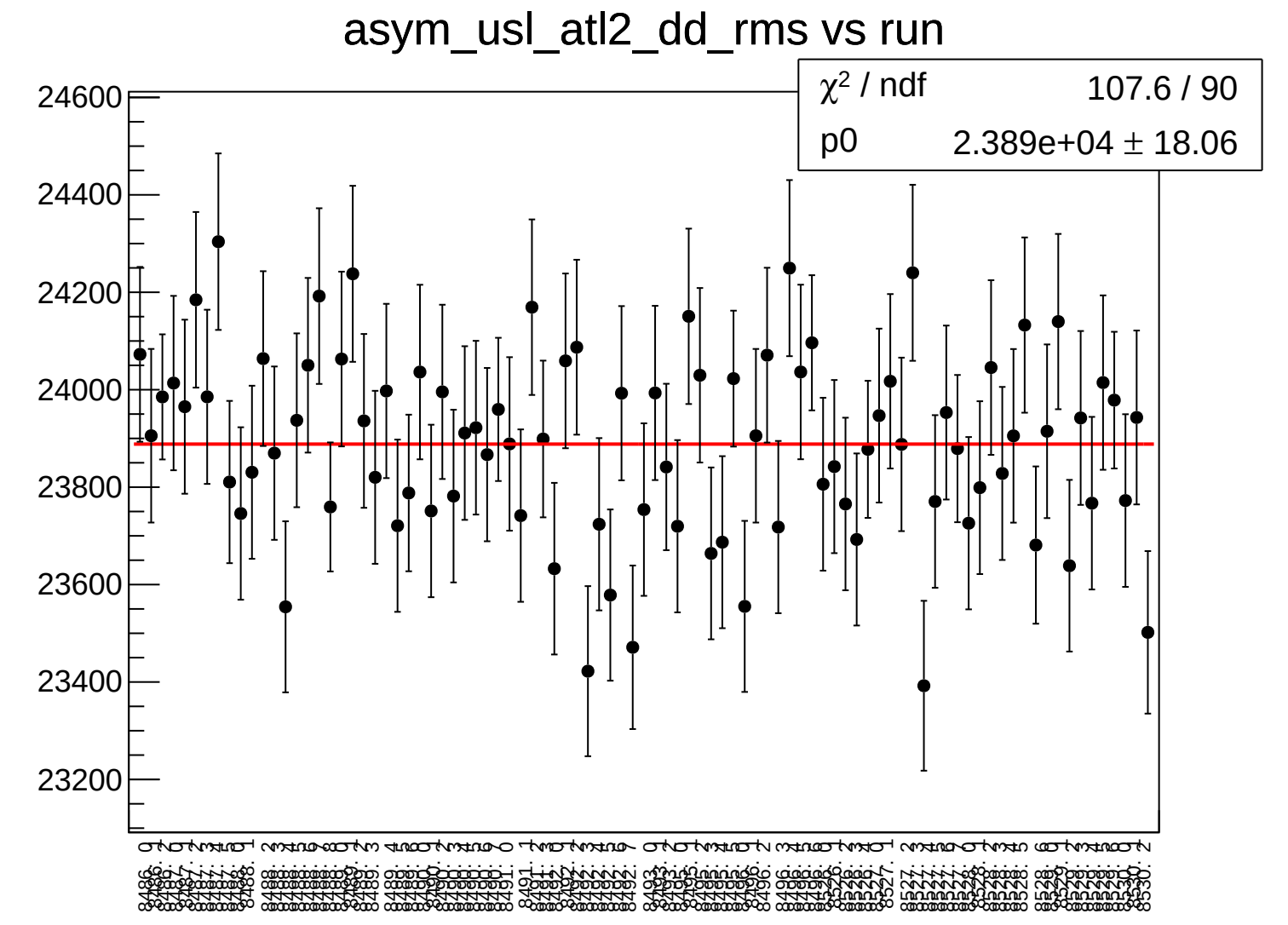

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
χ² / ndf 101.5 / 90
p0 −736.6 ± 616.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 23.95
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

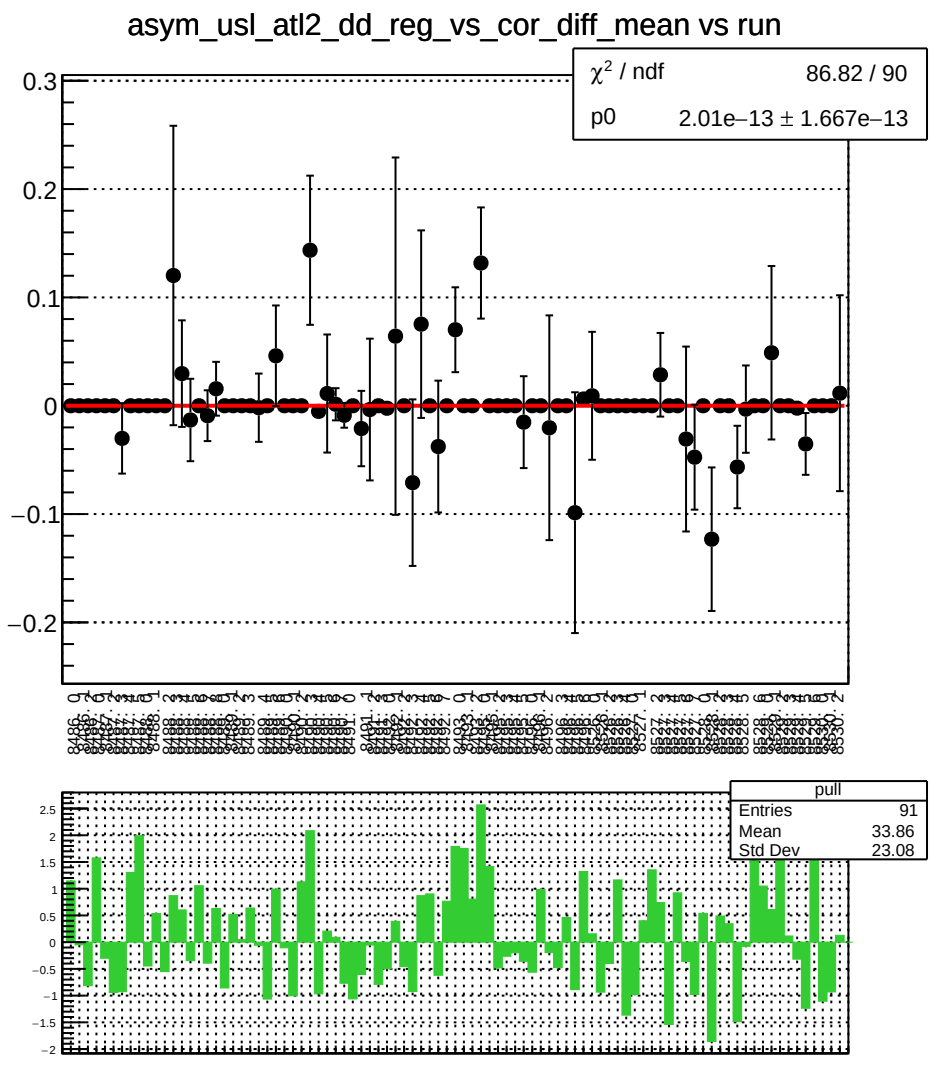

pull1D
Entries 91
Mean −0.0654
Std Dev 1.054
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

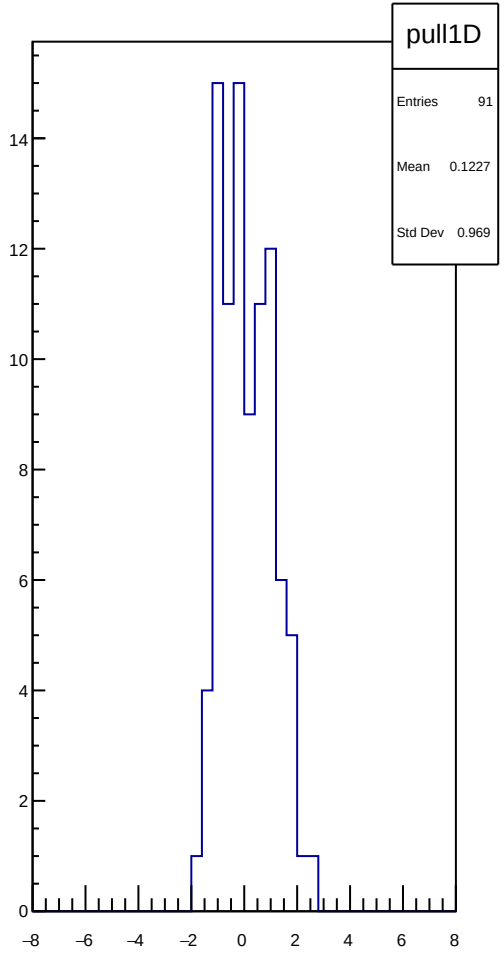

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 9.382e+04 / 90
p0 561.2 ± 0.4361
900
800
700
600
500
400

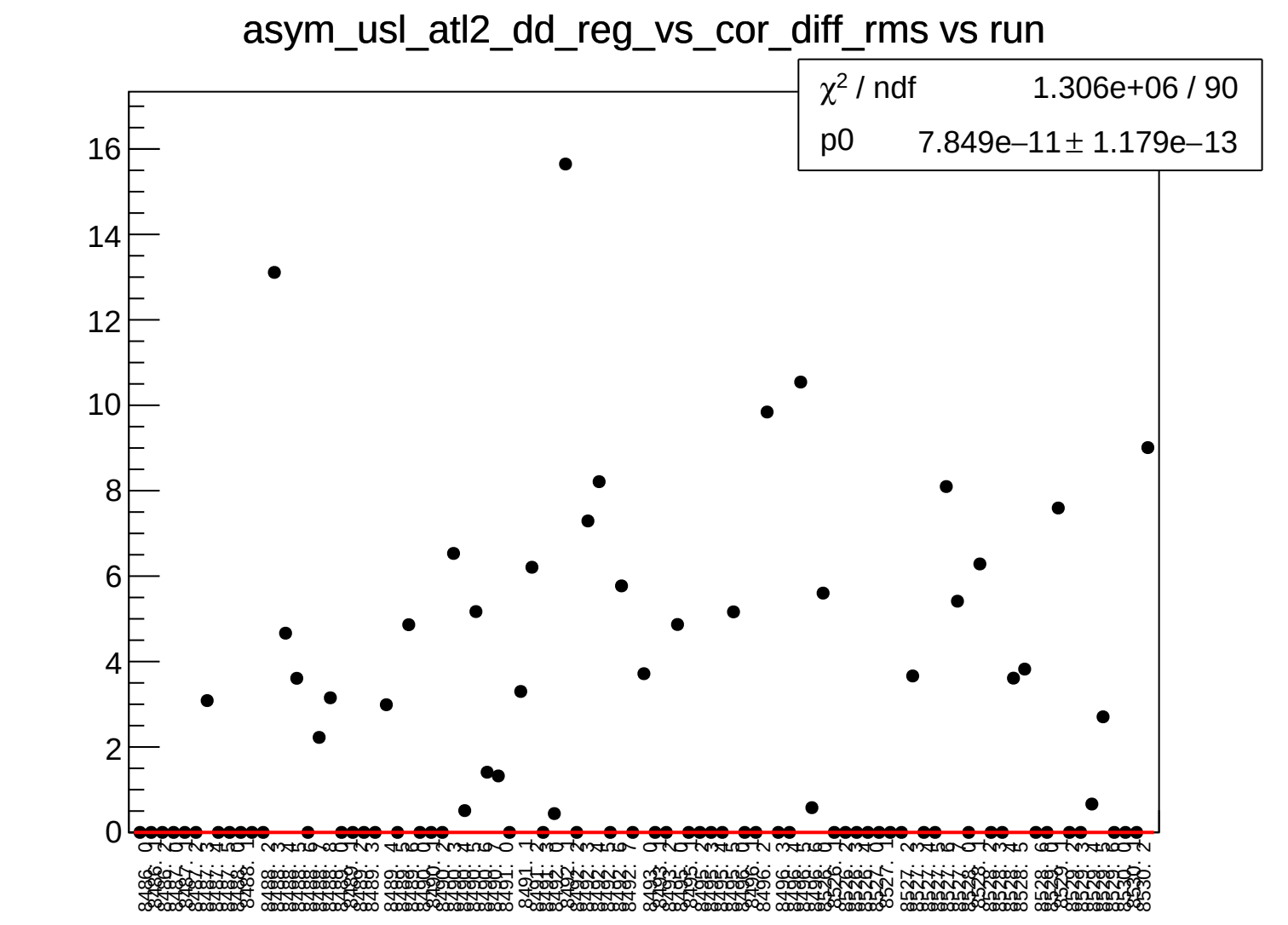

asym_usl_atl2_dd_mean vs run
×10^3
χ² / ndf 80.65 / 90
p0 1.913e+04 ± 2.554e+04
pull
Entries 91
Mean −965
Std Dev 0

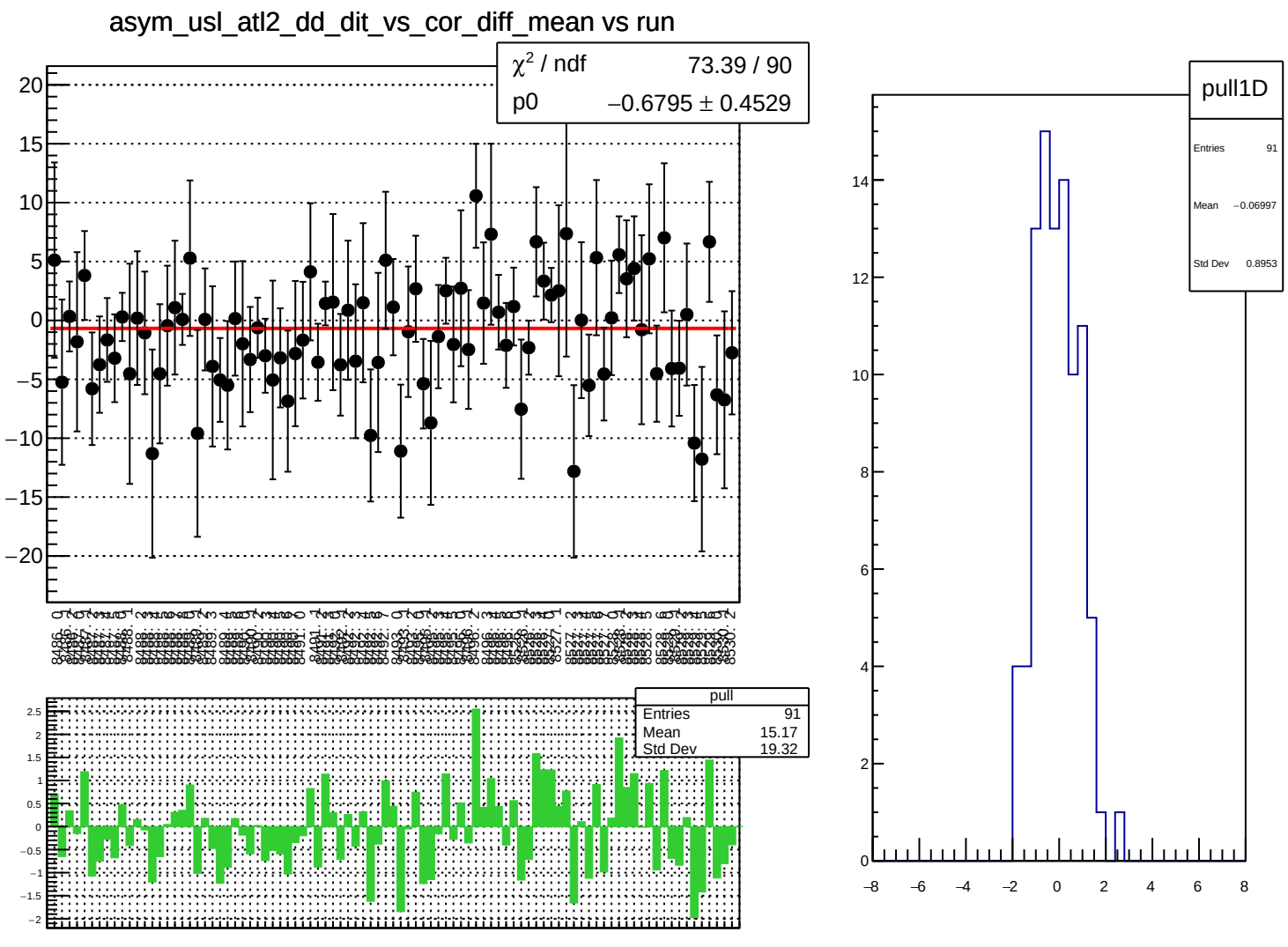

pull1D
Entries 91
Mean −0.006341
Std Dev 0.9414

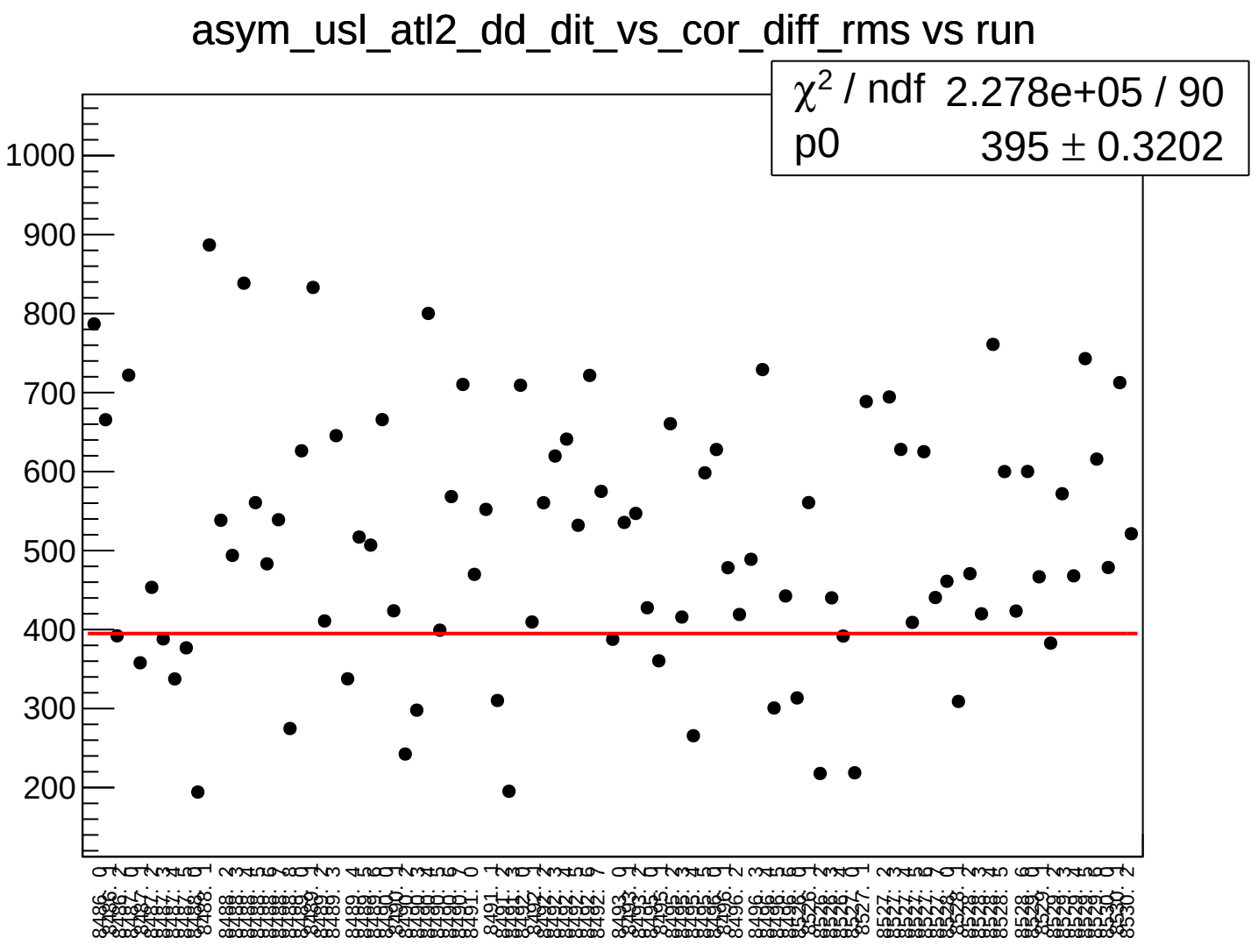

asym_usl_atl2_dd_rms vs run
χ² / ndf 107.6 / 90
p0 2.389e+04 ± 18.06
24600
24400
24200
24000
23800
23600
23400
23200

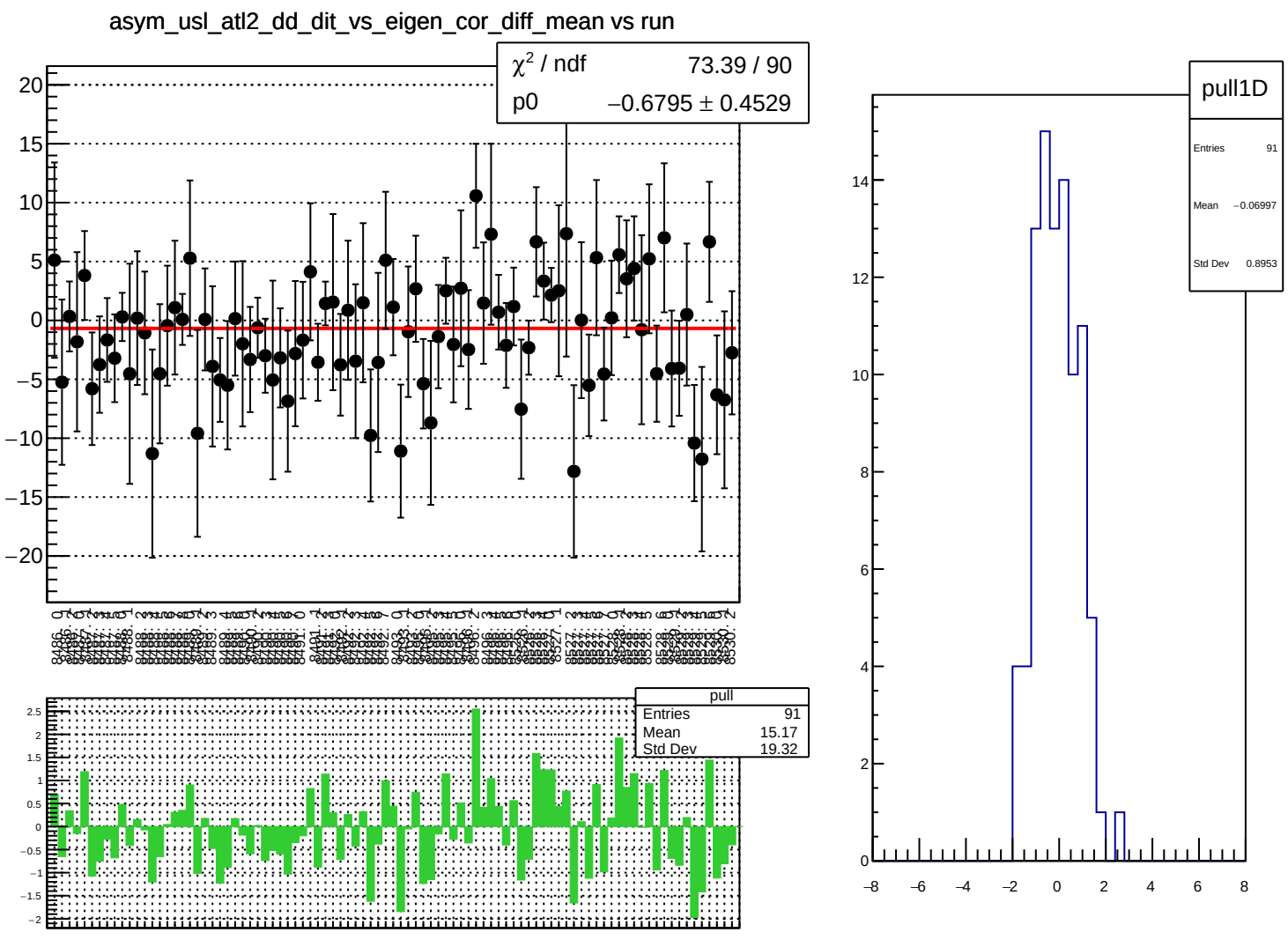

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 86.82 / 90
p0 2.01e−13 ± 1.667e−13
0.3
0.2
0.1
0
−0.1
−0.2
pull
Entries 91
Mean 33.86
Std Dev 23.08
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

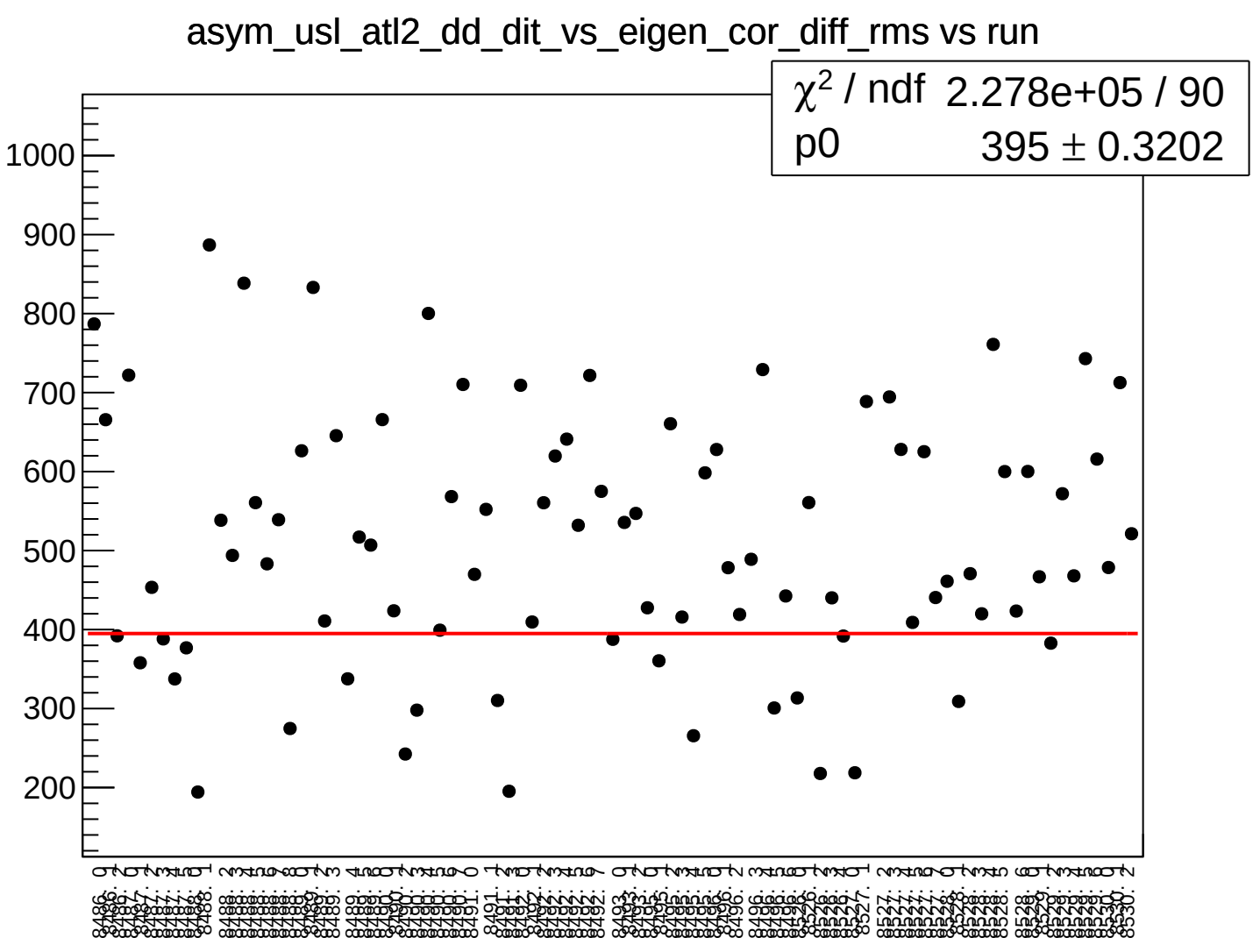

pull1D
Entries 91
Mean 0.1227
Std Dev 0.969
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

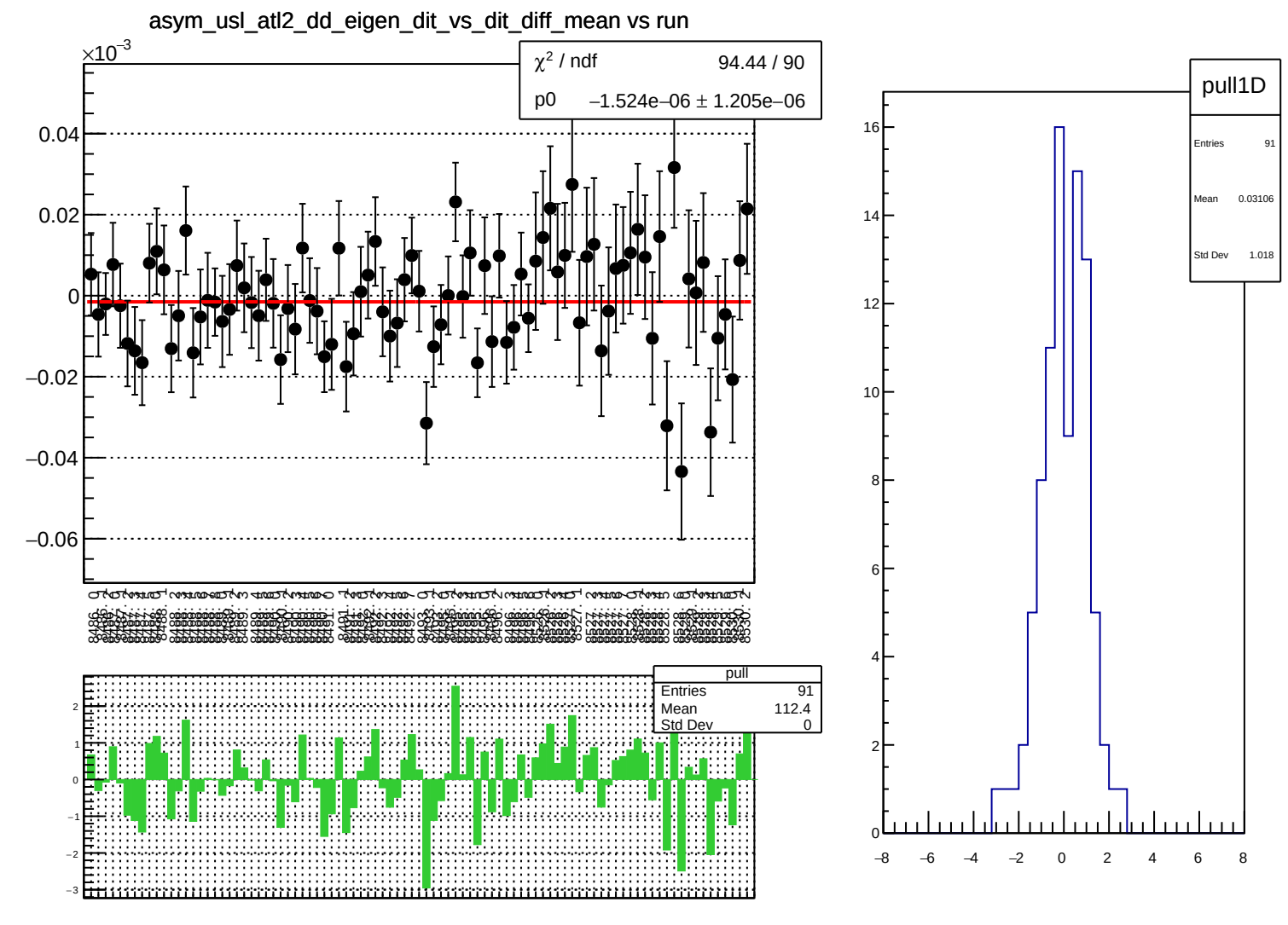

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.306e+06 / 90
p0 7.849e−11 ± 1.179e−13
16
14
12
10
8
6
4
2
0

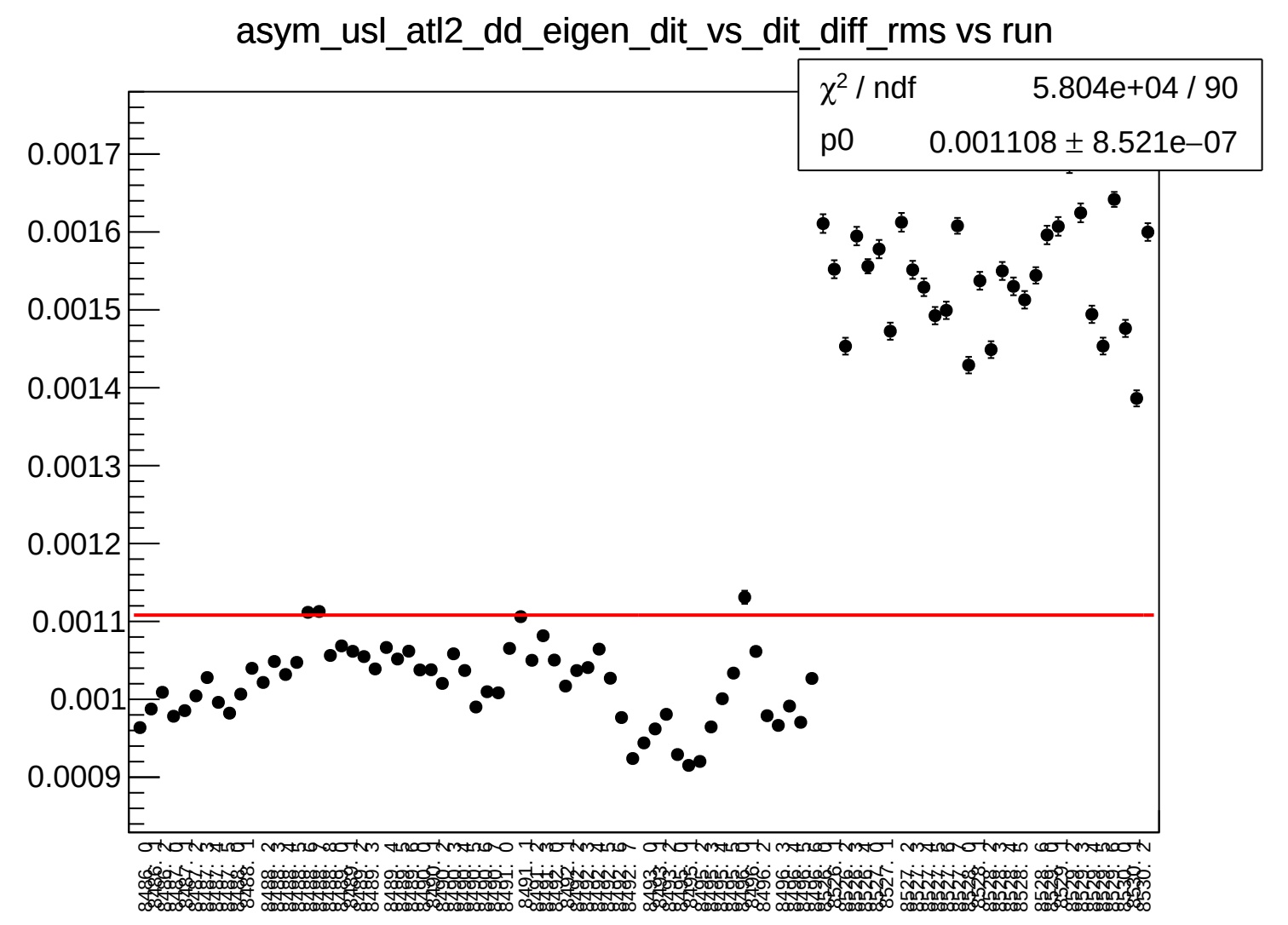

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 73.39 / 90
p0 −0.6795 ± 0.4529
pull
Entries 91
Mean 15.17
Std Dev 19.32
pull1D
Entries 91
Mean −0.06997
Std Dev 0.8953

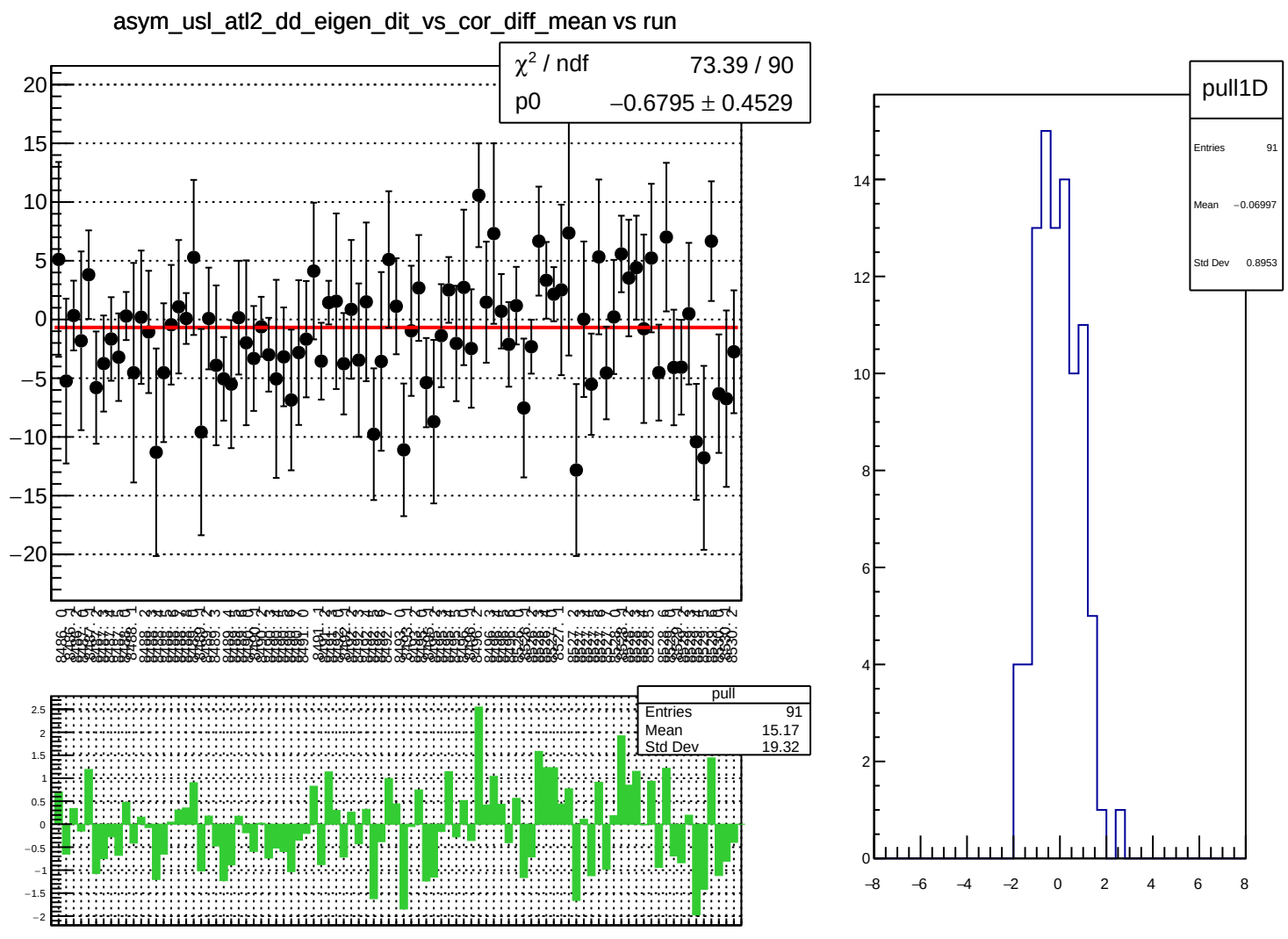

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.278e+05 / 90
p0 395 ± 0.3202
1000
900
800
700
600
500
400
300
200

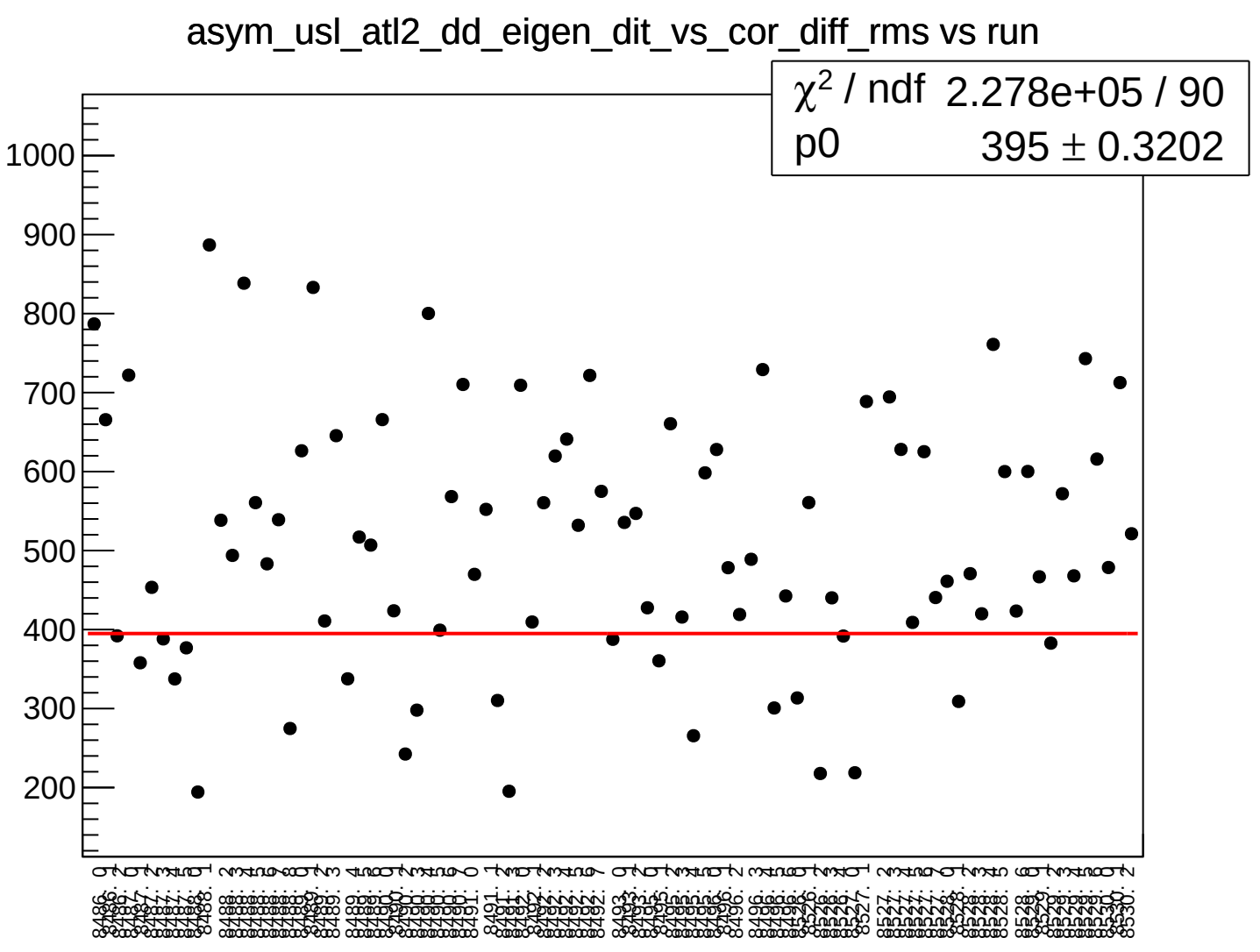

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.39 / 90
p0 −0.6795 ± 0.4529
pull
Entries 91
Mean 15.17
Std Dev 19.32
pull1D
Entries 91
Mean −0.06997
Std Dev 0.8953

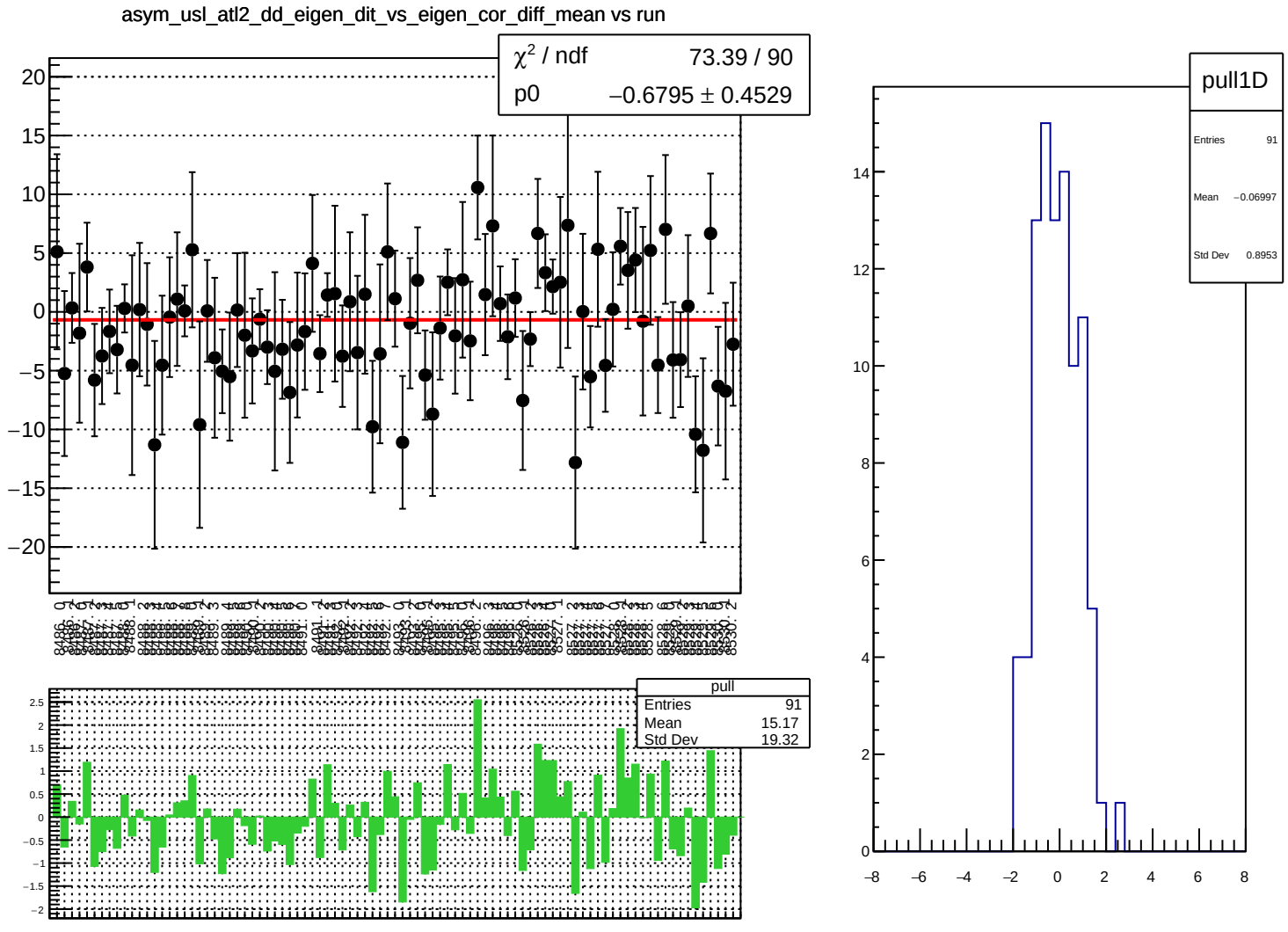

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.278e+05 / 90
p0 395 ± 0.3202
1000
900
800
700
600
500
400
300
200

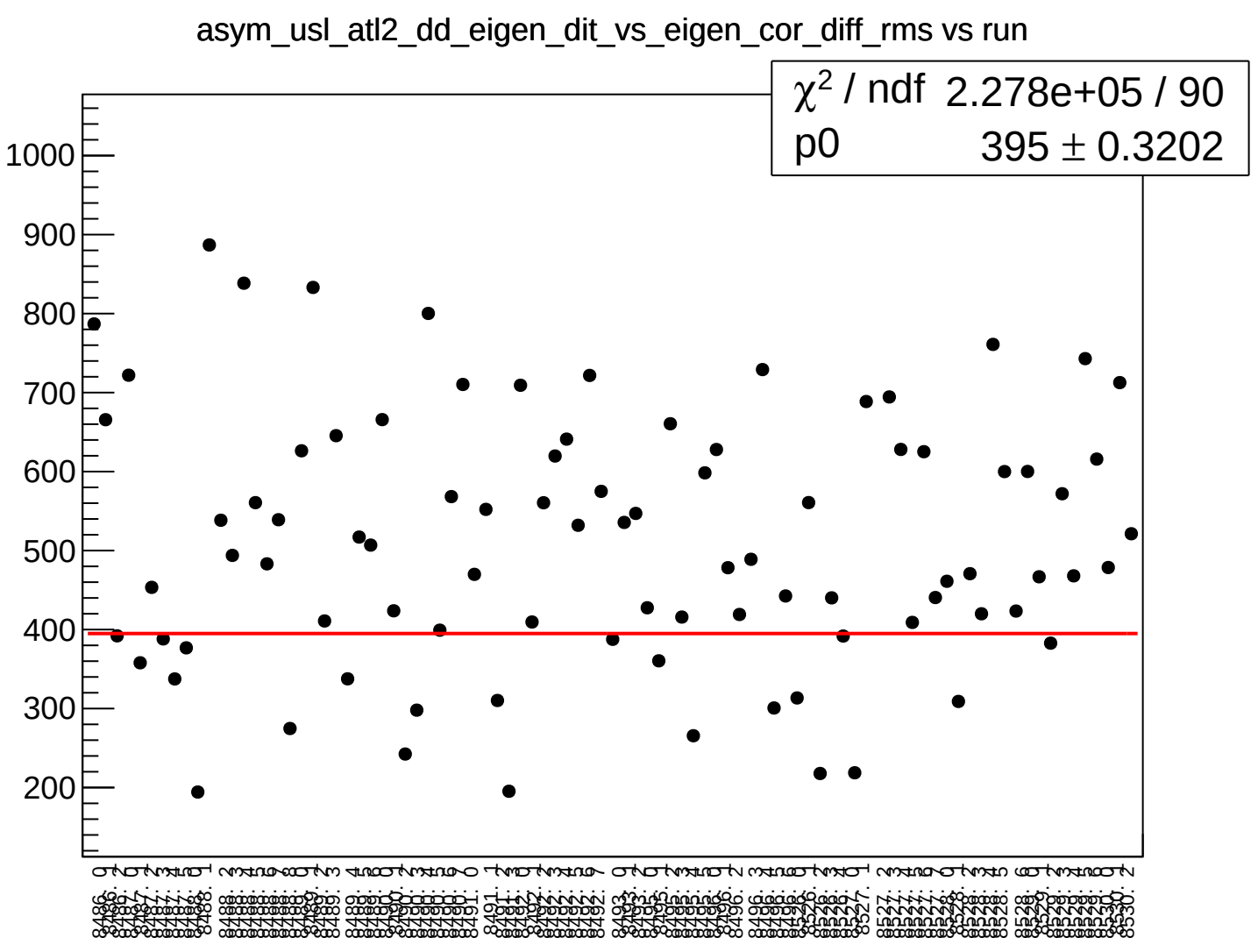

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.44 / 90
p0 −1.524e−06 ± 1.205e−06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 91
Mean 112.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean 0.03106
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

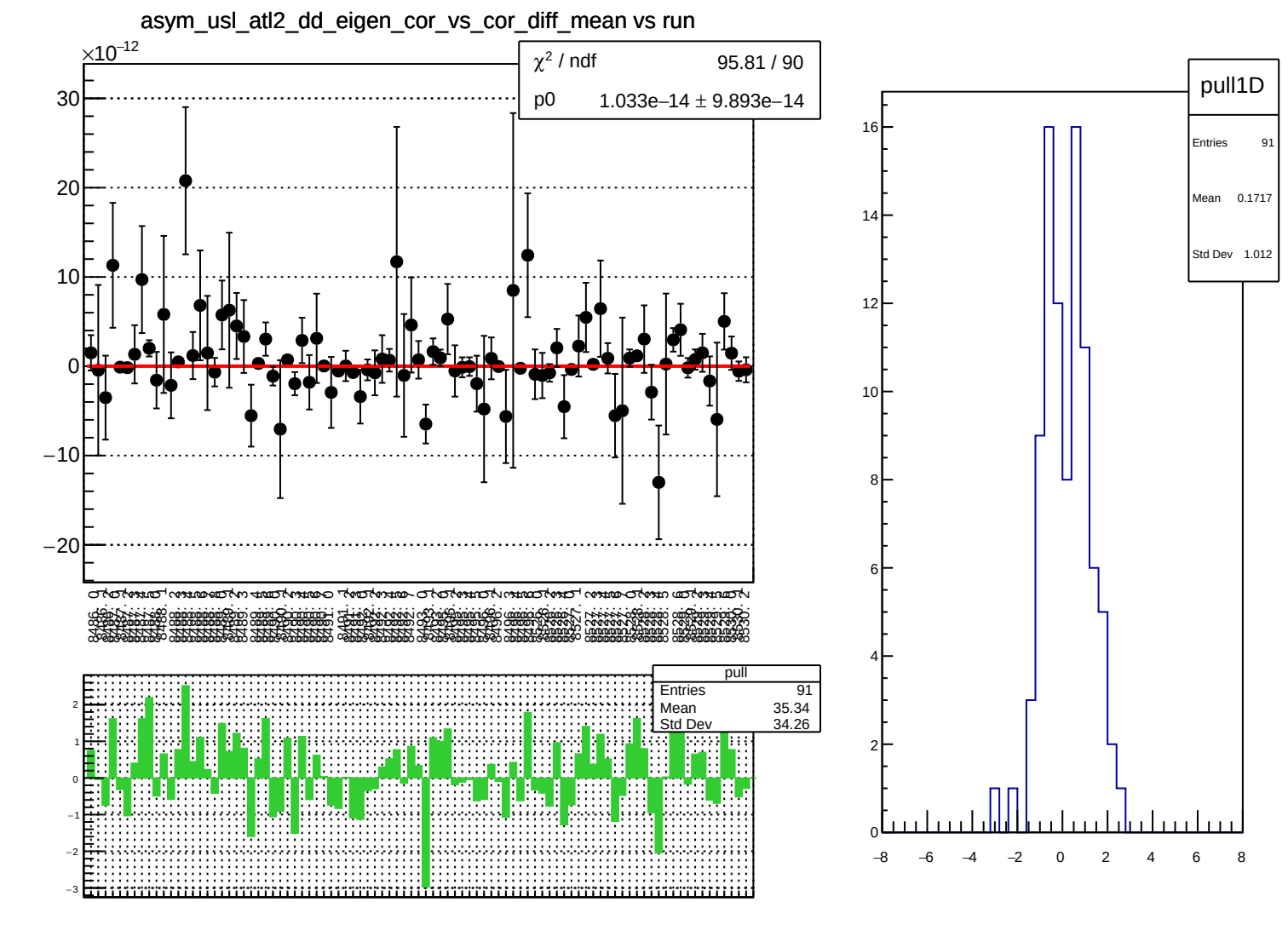

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.804e+04 / 90
p0 0.001108 ± 8.521e−07
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012
0.0011
0.001
0.0009

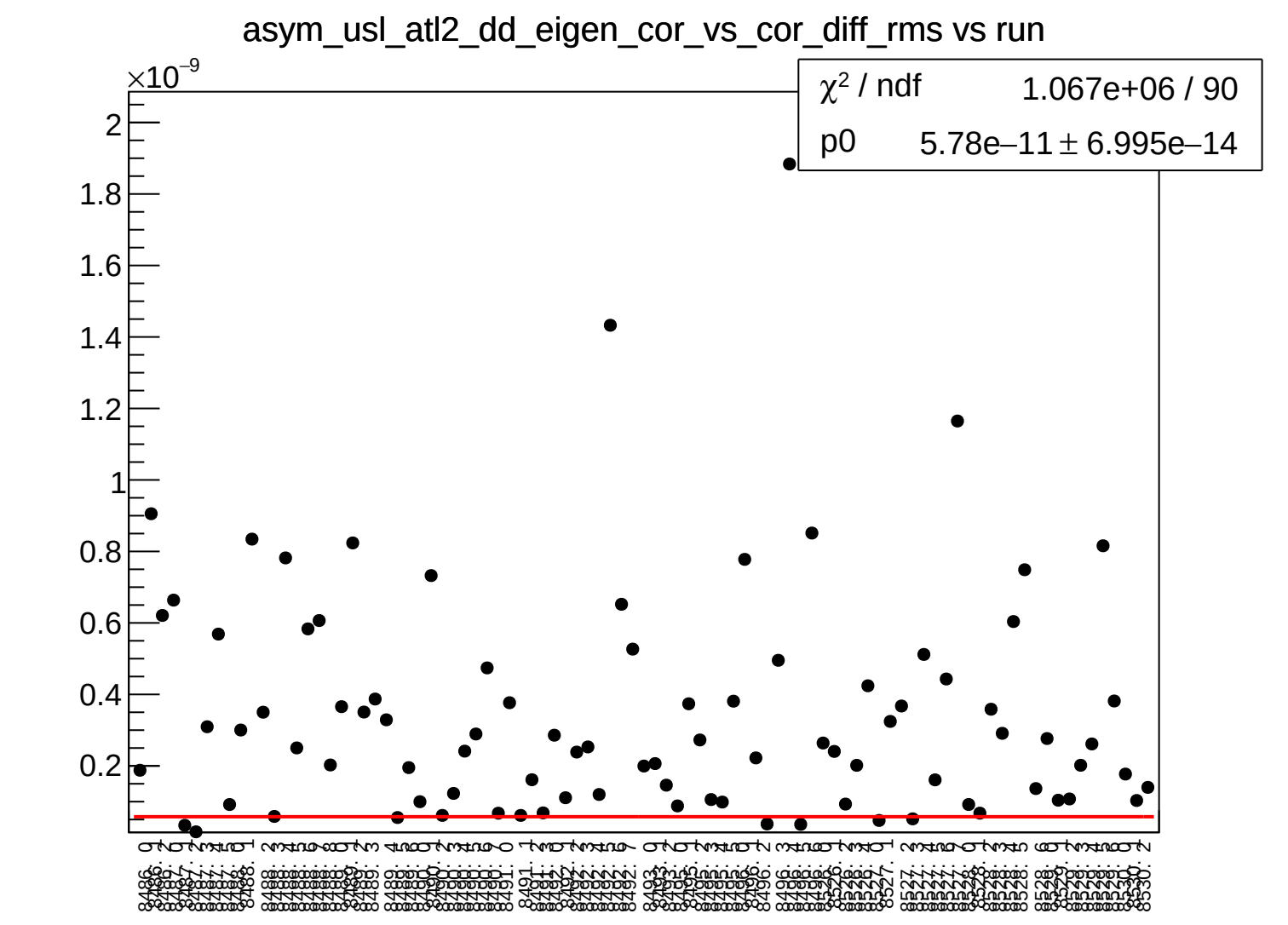

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.39 / 90
p0 −0.6795 ± 0.4529
pull
Entries 91
Mean 15.17
Std Dev 19.32
pull1D
Entries 91
Mean −0.06997
Std Dev 0.8953

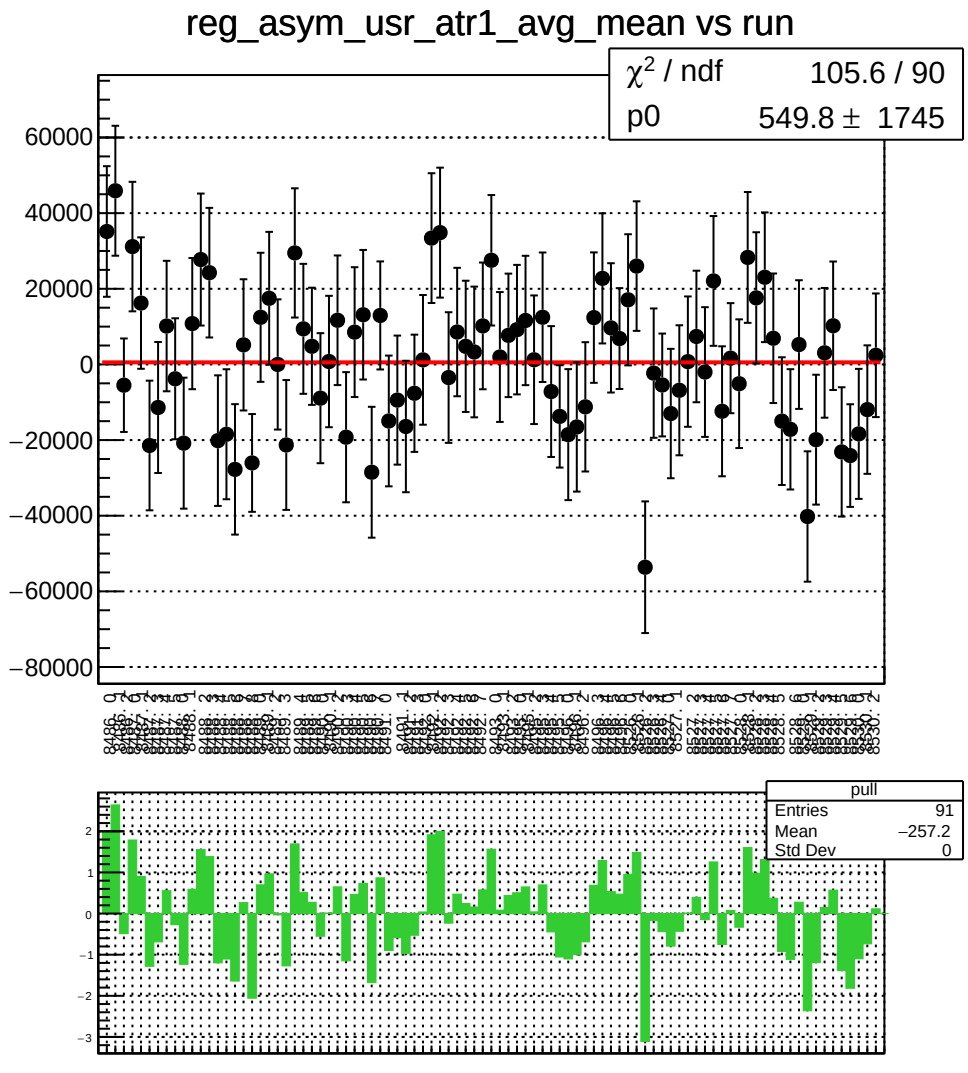

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.278e+05 / 90
p0 395 ± 0.3202
1000
900
800
700
600
500
400
300
200

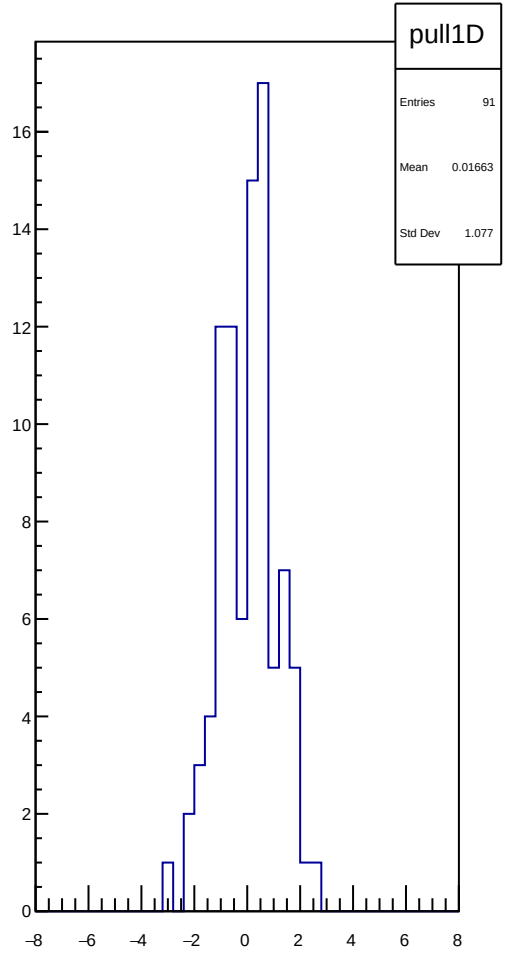

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.39 / 90
p0 −0.6795 ± 0.4529
pull
Entries 91
Mean 15.17
Std Dev 19.32
pull1D
Entries 91
Mean −0.06997
Std Dev 0.8953

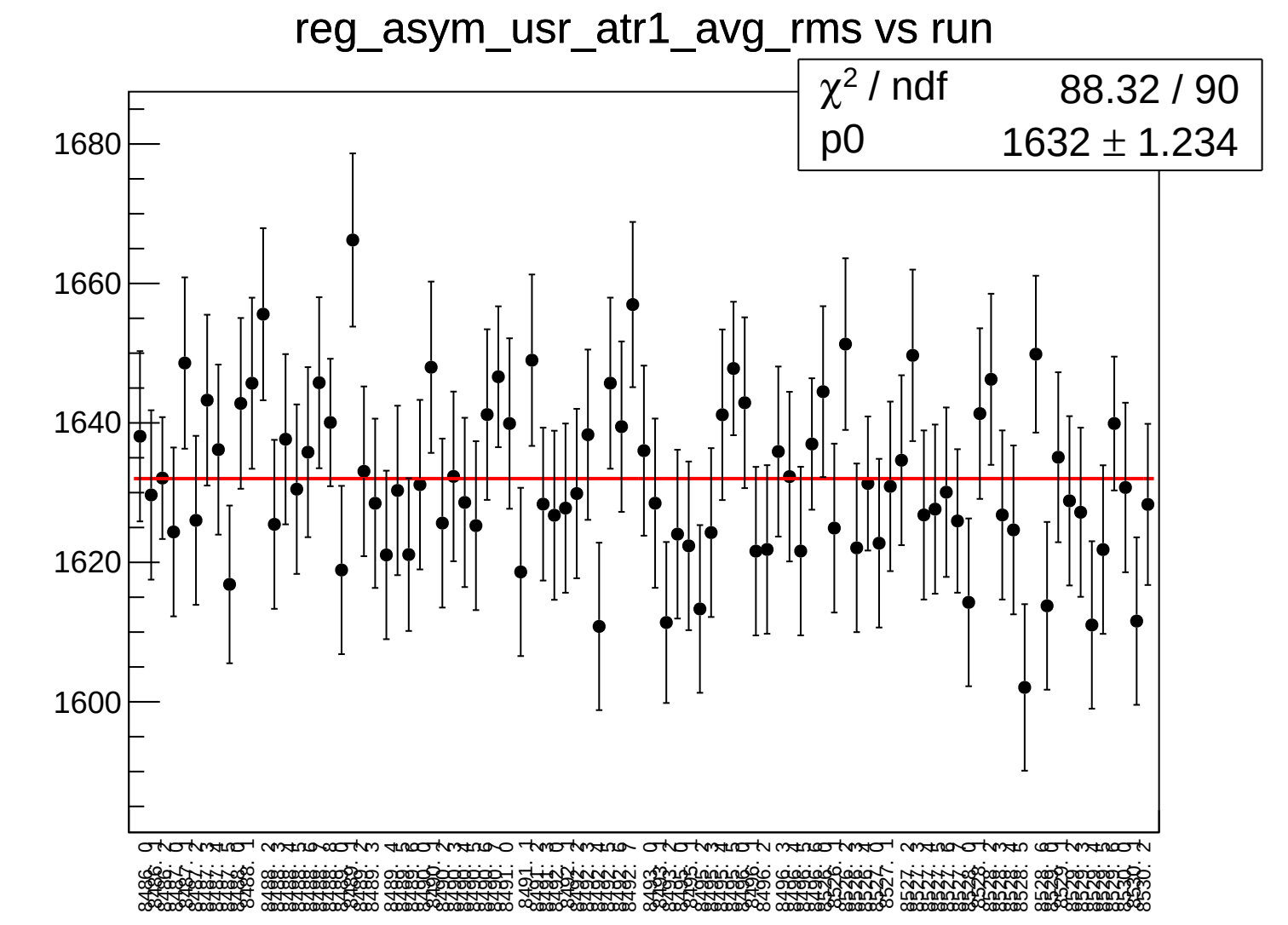

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.278e+05 / 90
p0 395 ± 0.3202
1000
900
800
700
600
500
400
300
200

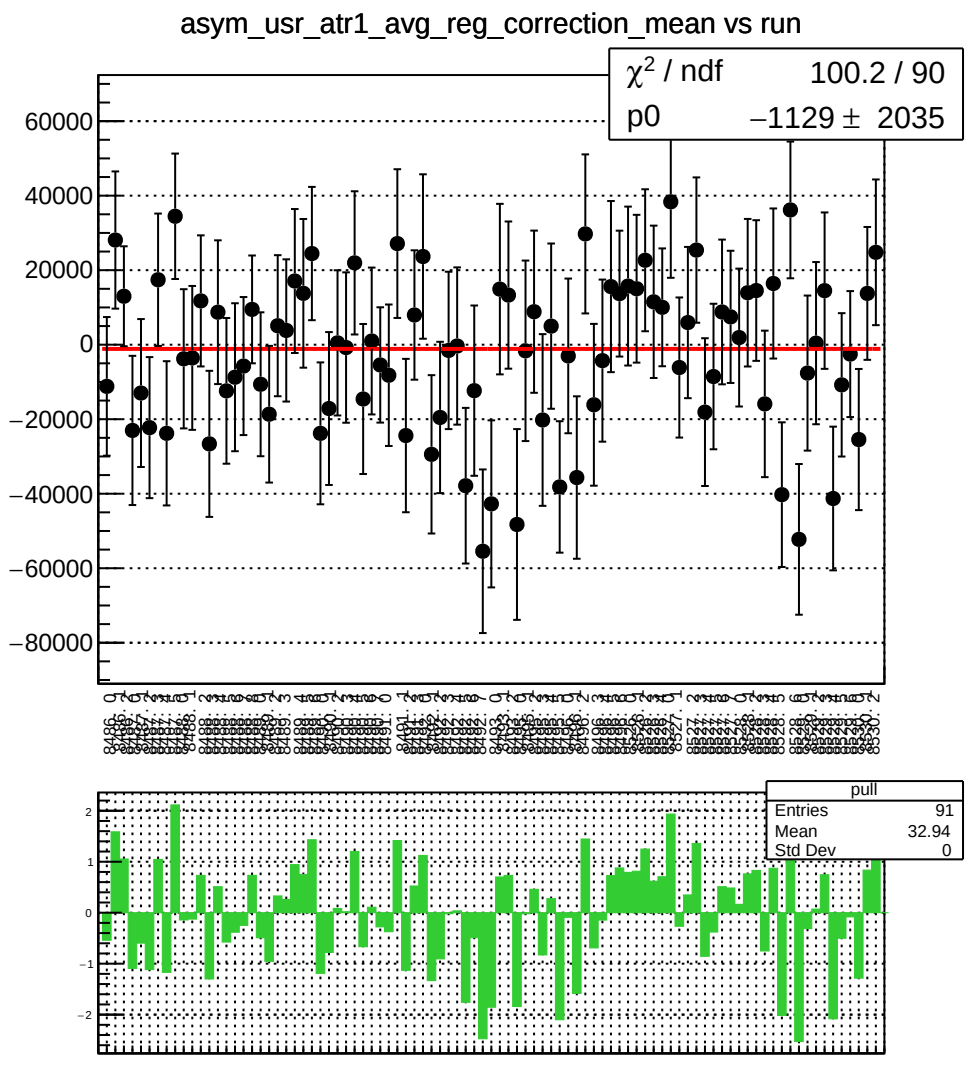

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 95.81 / 90
p0 1.033e−14 ± 9.893e−14
pull
Entries 91
Mean 35.34
Std Dev 34.26
pull1D
Entries 91
Mean 0.1717
Std Dev 1.012

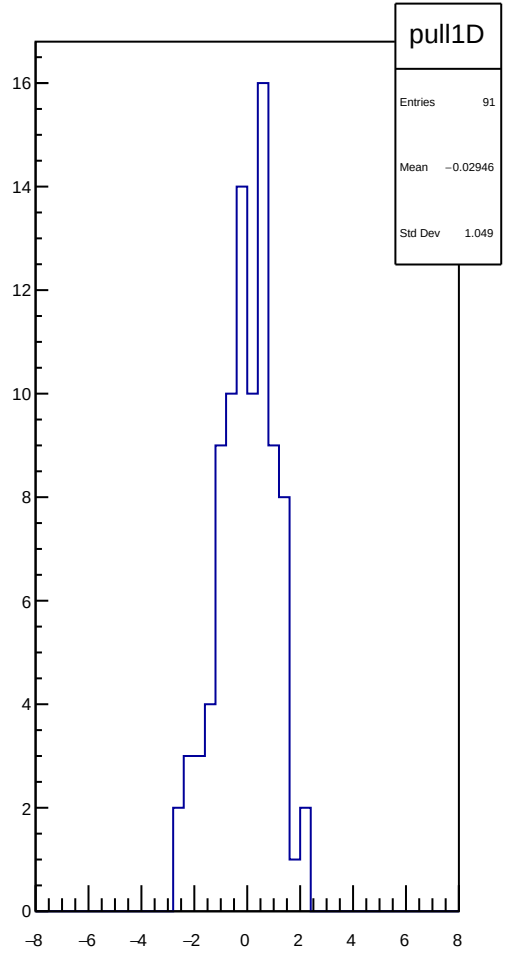

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.067e+06 / 90
p0 5.78e−11 ± 6.995e−14
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

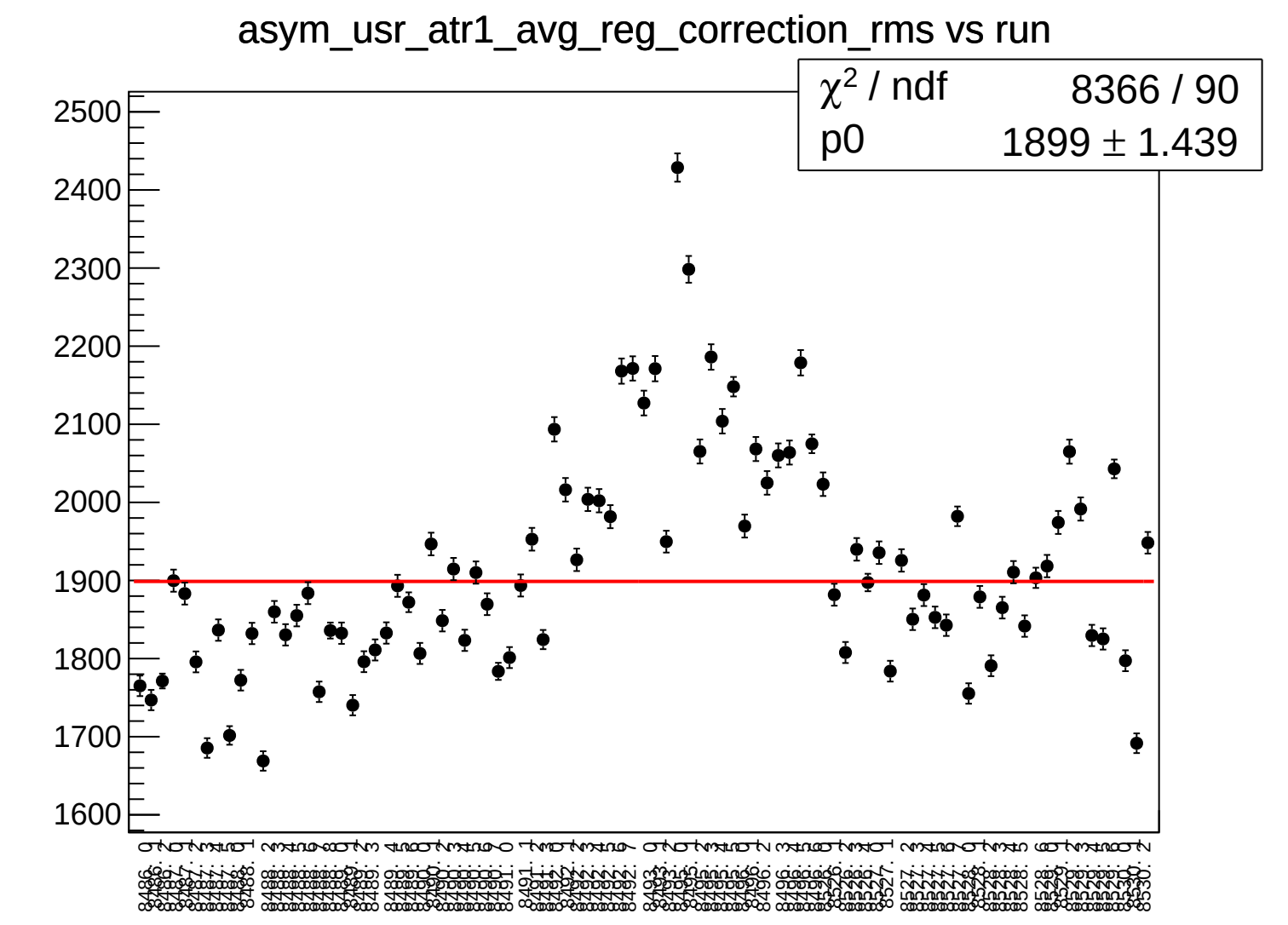

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 105.6 / 90
p0 549.8 ± 1745
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean −257.2
Std Dev 0
2
1
0
−1
−2
−3

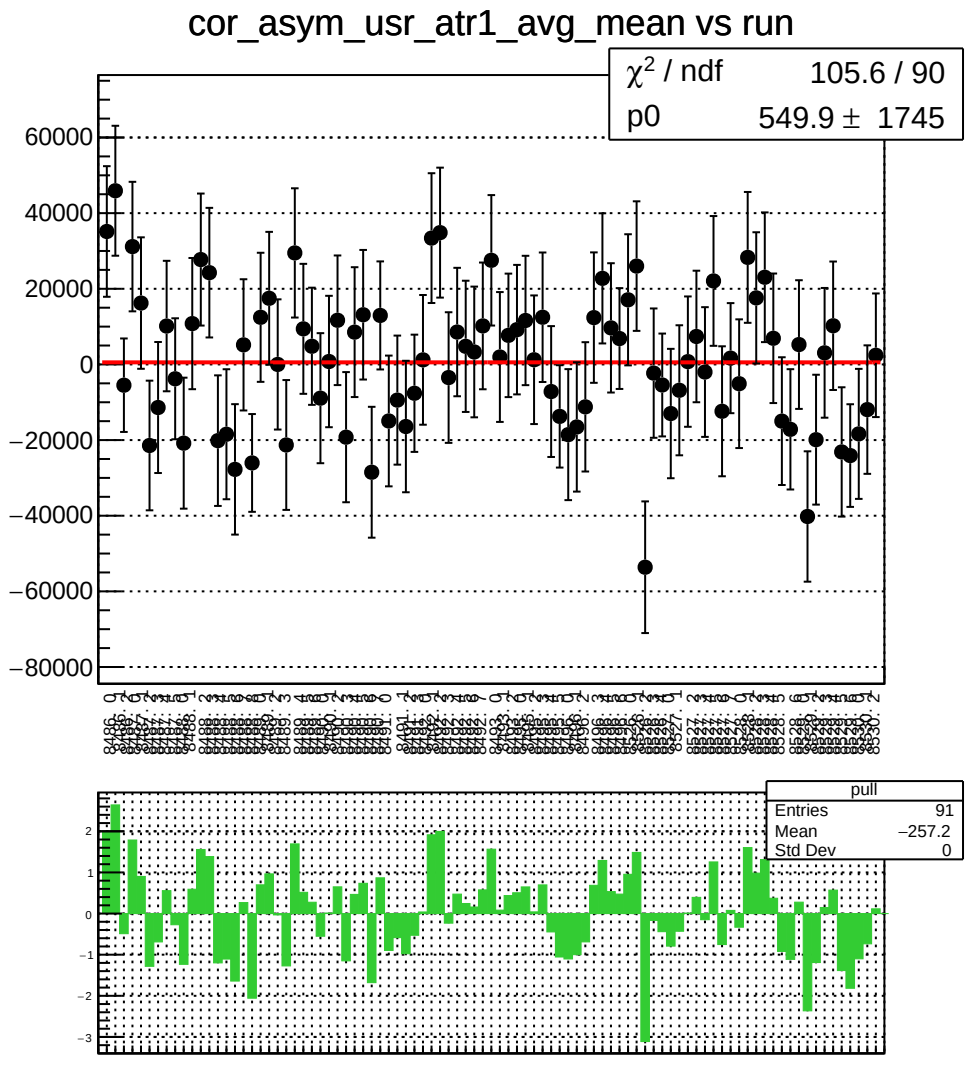

pull1D
Entries 91
Mean 0.01663
Std Dev 1.077
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

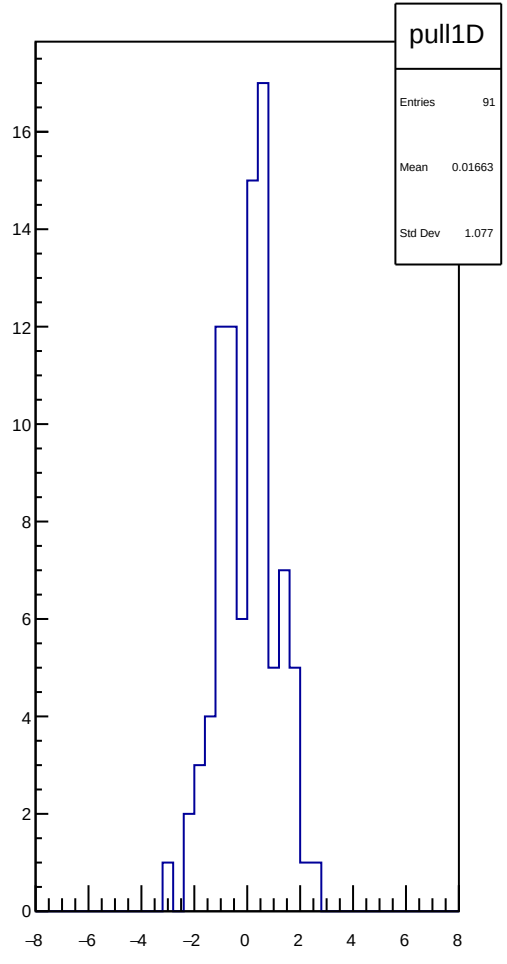

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 88.32 / 90
p0 1632 ± 1.234
1680
1660
1640
1620
1600

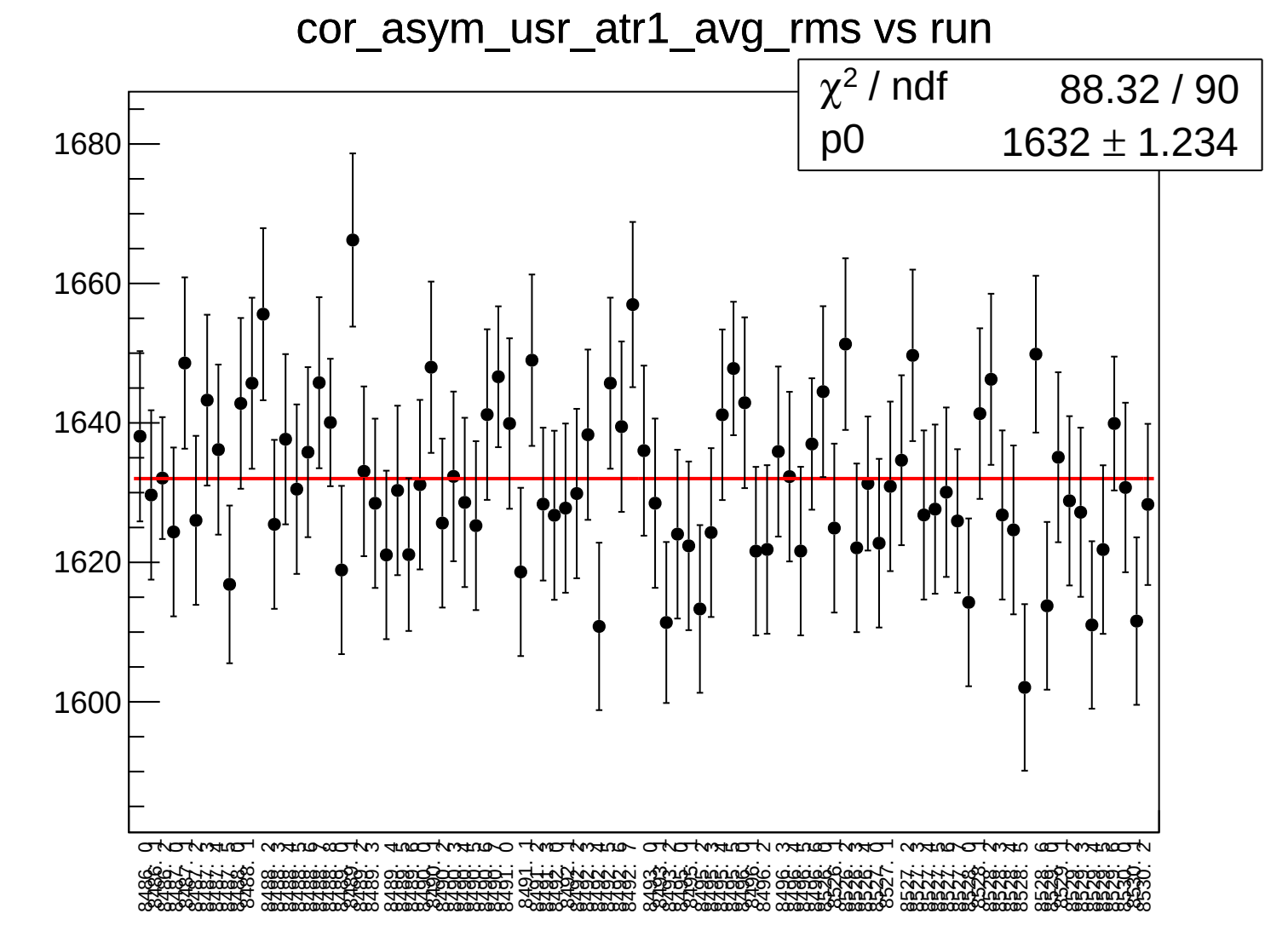

asym_usr_atr1_avg_reg_correction_mean vs run
χ² / ndf 100.2 / 90
p0 −1129 ± 2035
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean 32.94
Std Dev 0
2
1
0
−1
−2

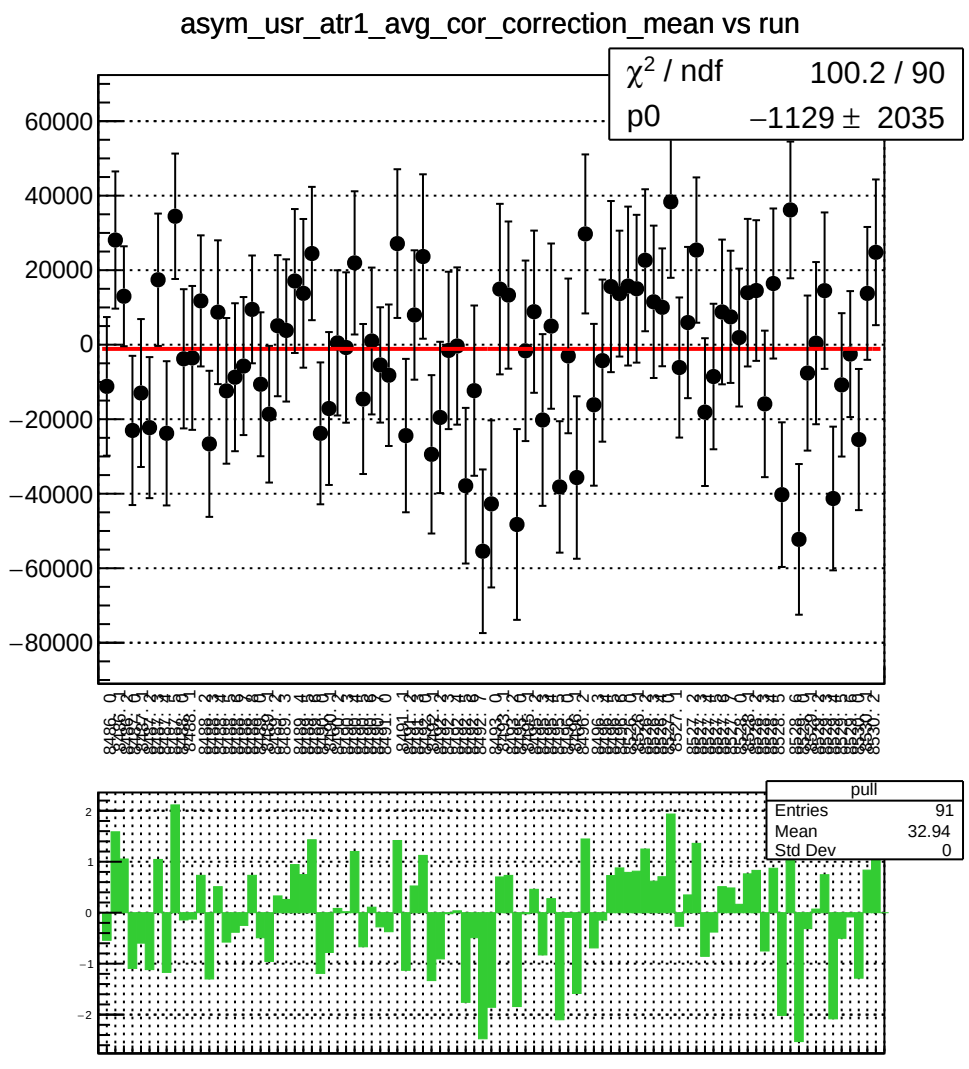

pull1D
Entries 91
Mean −0.02946
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

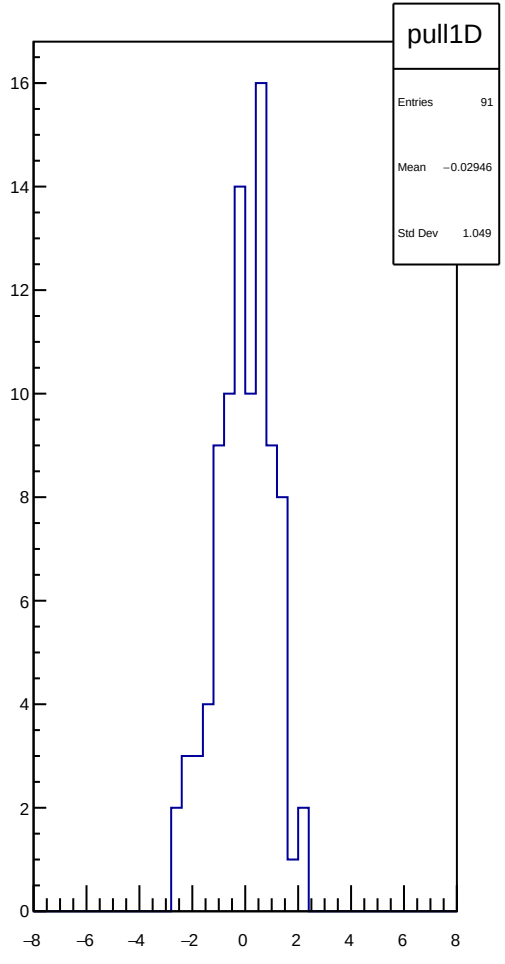

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 8366 / 90
p0 1899 ± 1.439
2500
2400
2300
2200
2100
2000
1900
1800
1700
1600

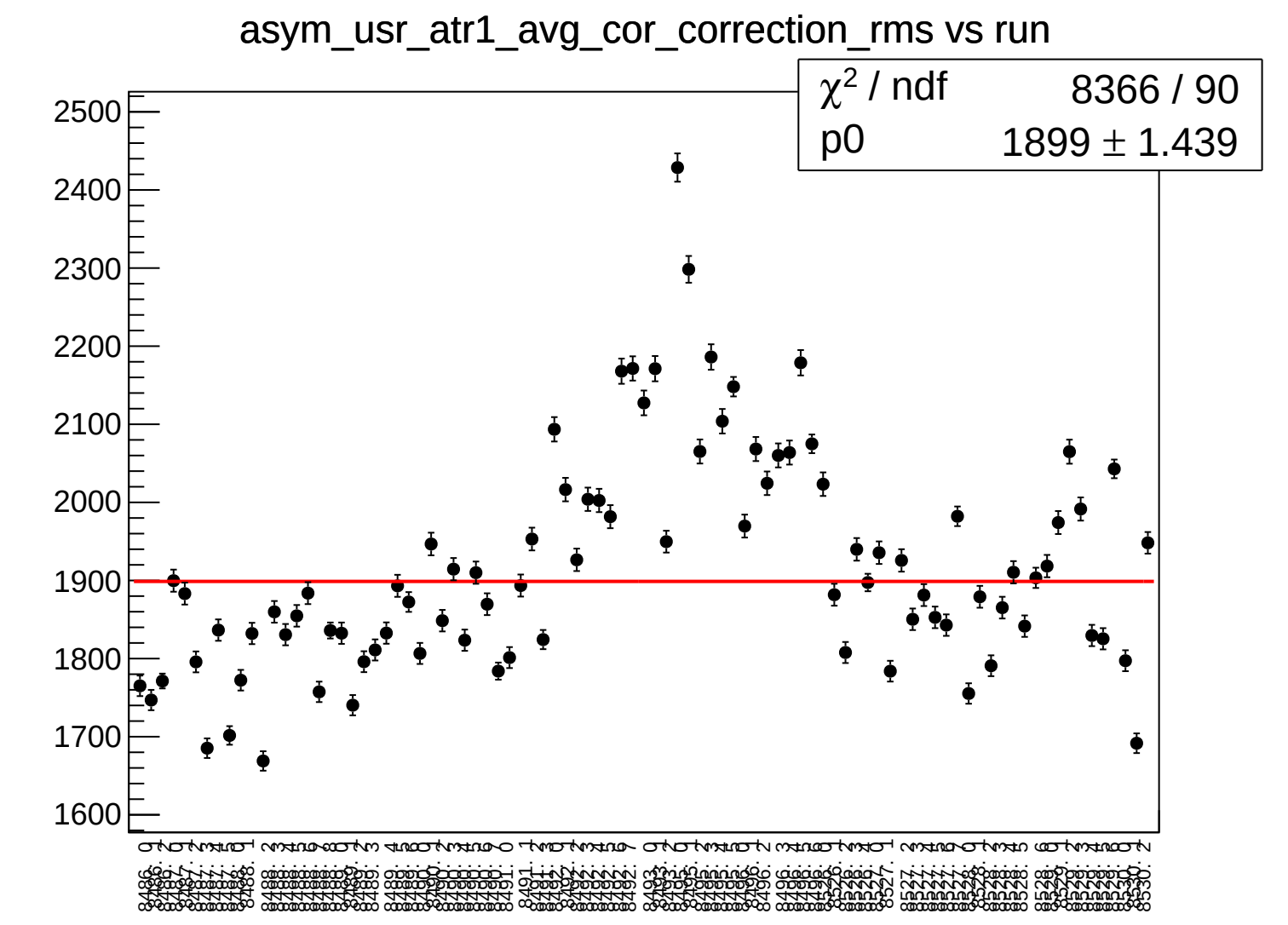

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 105.6 / 90
p0 549.9 ± 1745
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean −257.2
Std Dev 0
2
1
0
−1
−2
−3

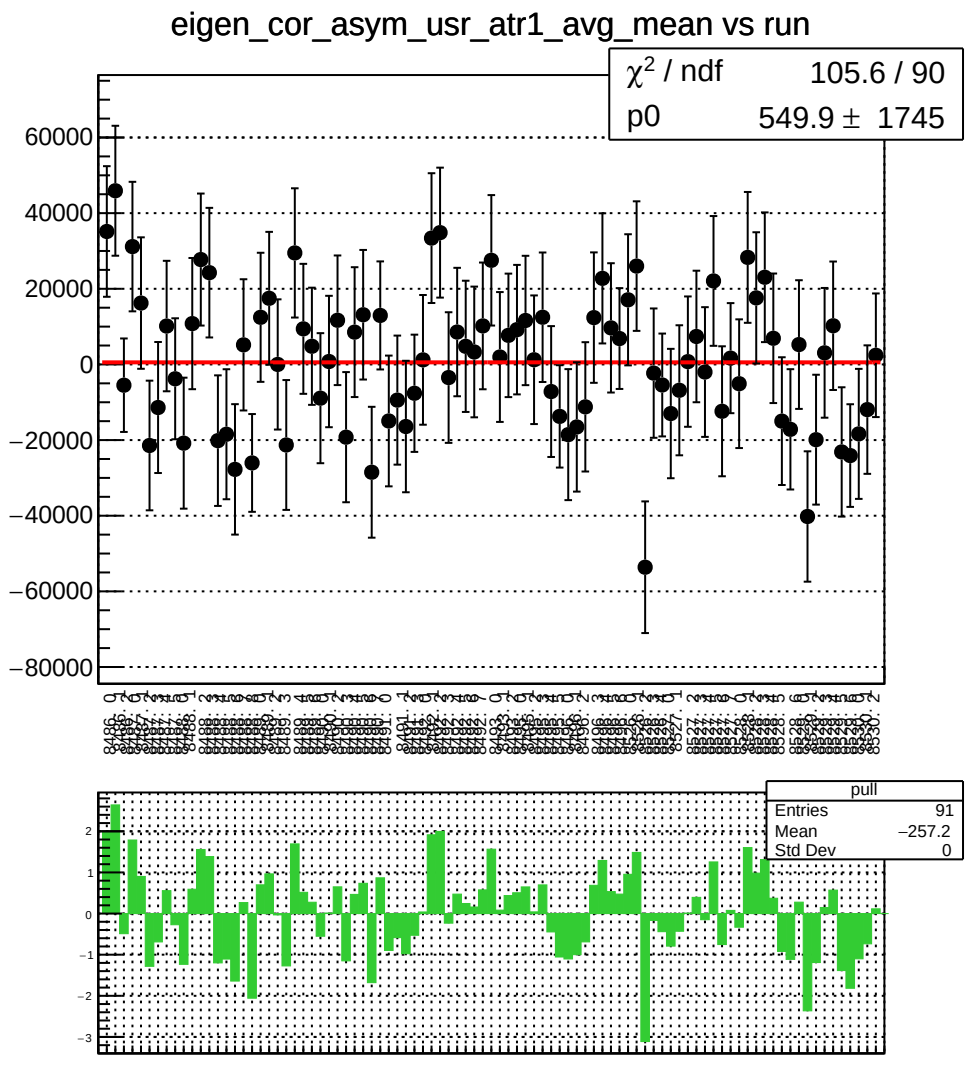

pull1D
Entries 91
Mean 0.01663
Std Dev 1.077
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

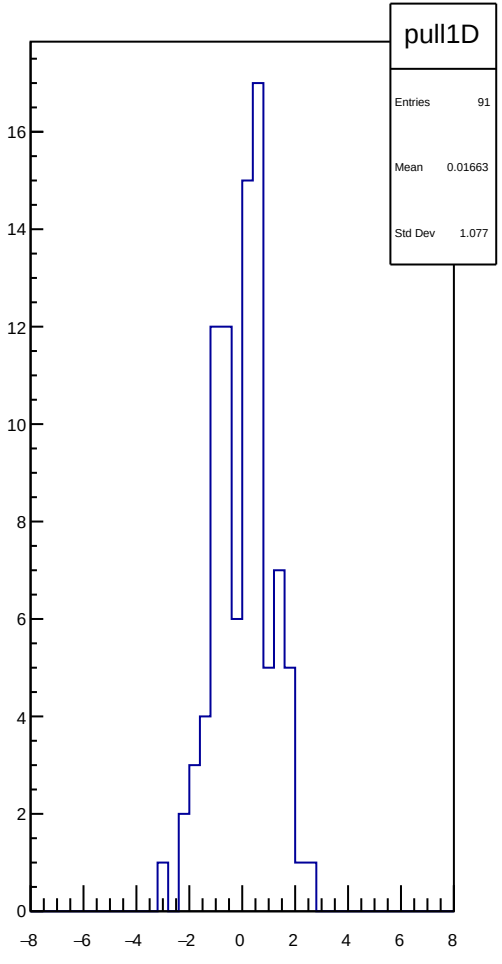

cor_asym_usr_atr1_avg_rms vs run
χ^2 / ndf 88.32 / 90
p0 1632 ± 1.234
1680
1660
1640
1620
1600

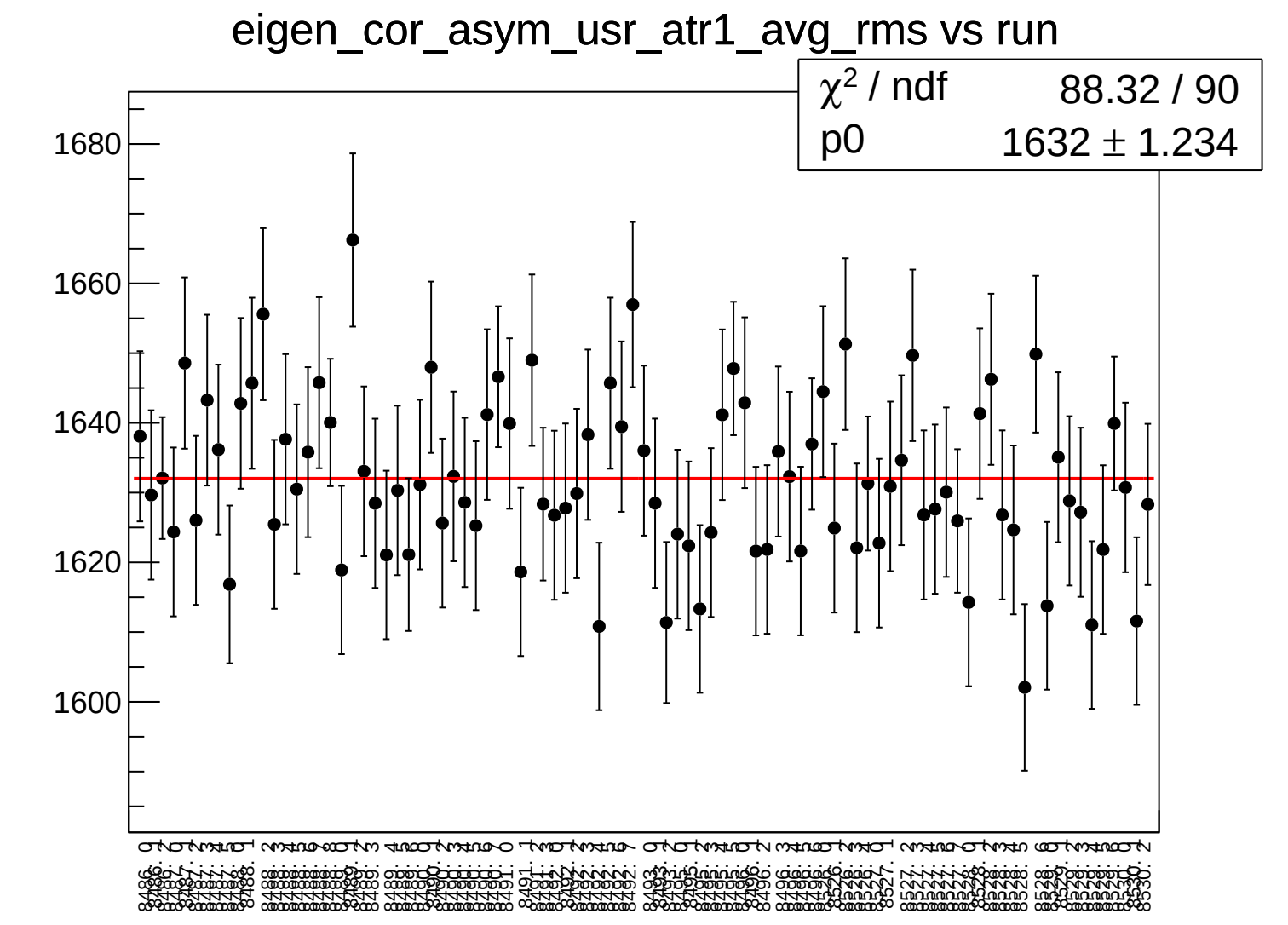

asym_usr_atr1_avg_cor_correction_mean vs run
χ² / ndf 100.2 / 90
p0 −1129 ± 2035
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean 32.94
Std Dev 0
2
1
0
−1
−2

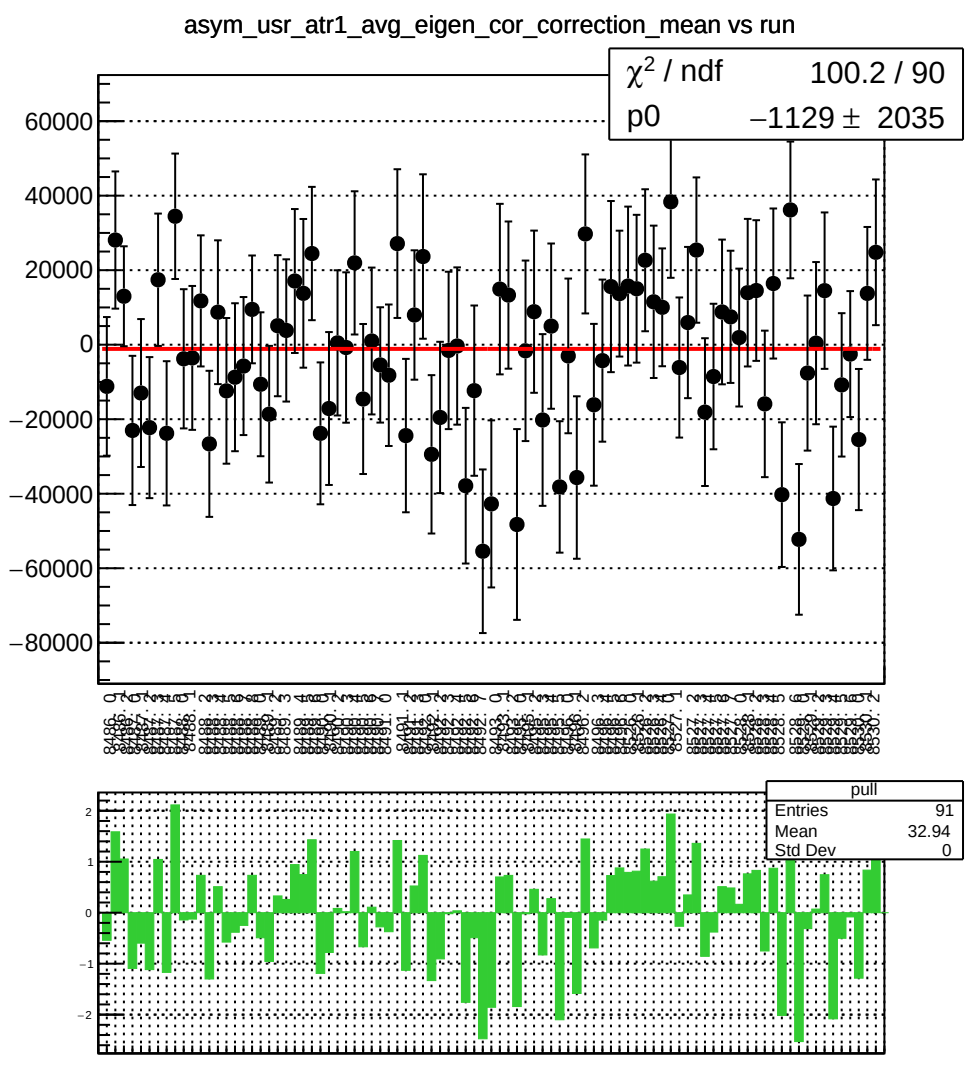

pull1D
Entries 91
Mean −0.02946
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

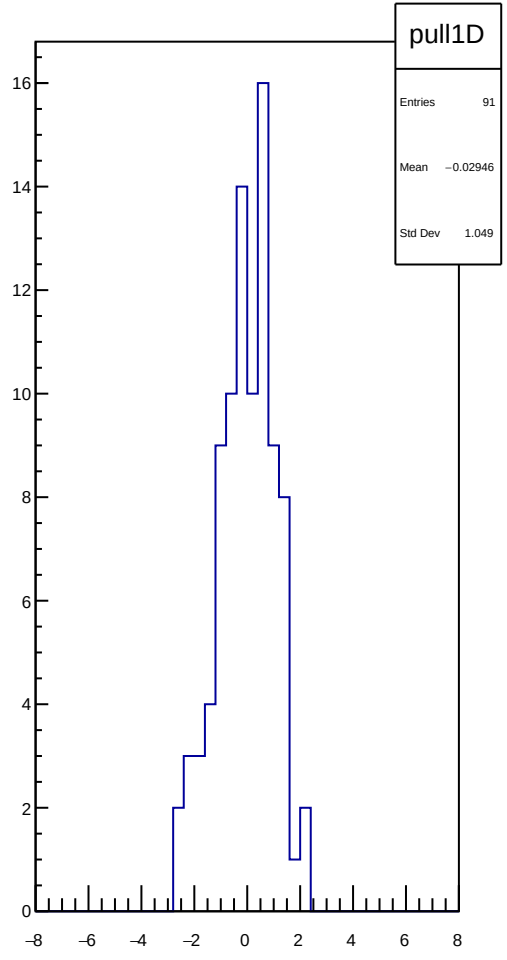

asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 8366 / 90
p0 1899 ± 1.439
2500
2400
2300
2200
2100
2000
1900
1800
1700
1600

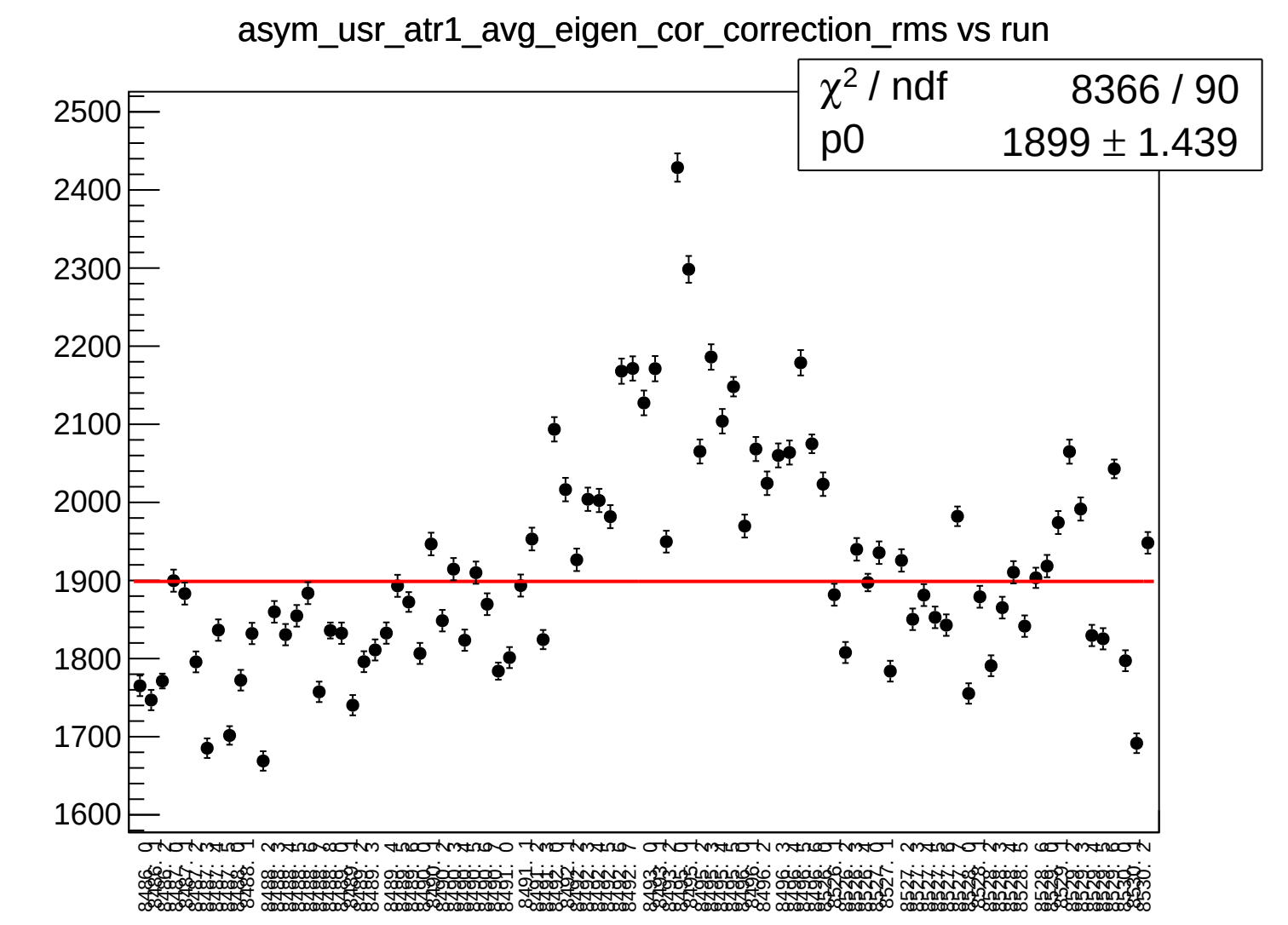

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 105.6 / 90
p0 549.9 ± 1745
pull
Entries 91
Mean −257.2
Std Dev 0

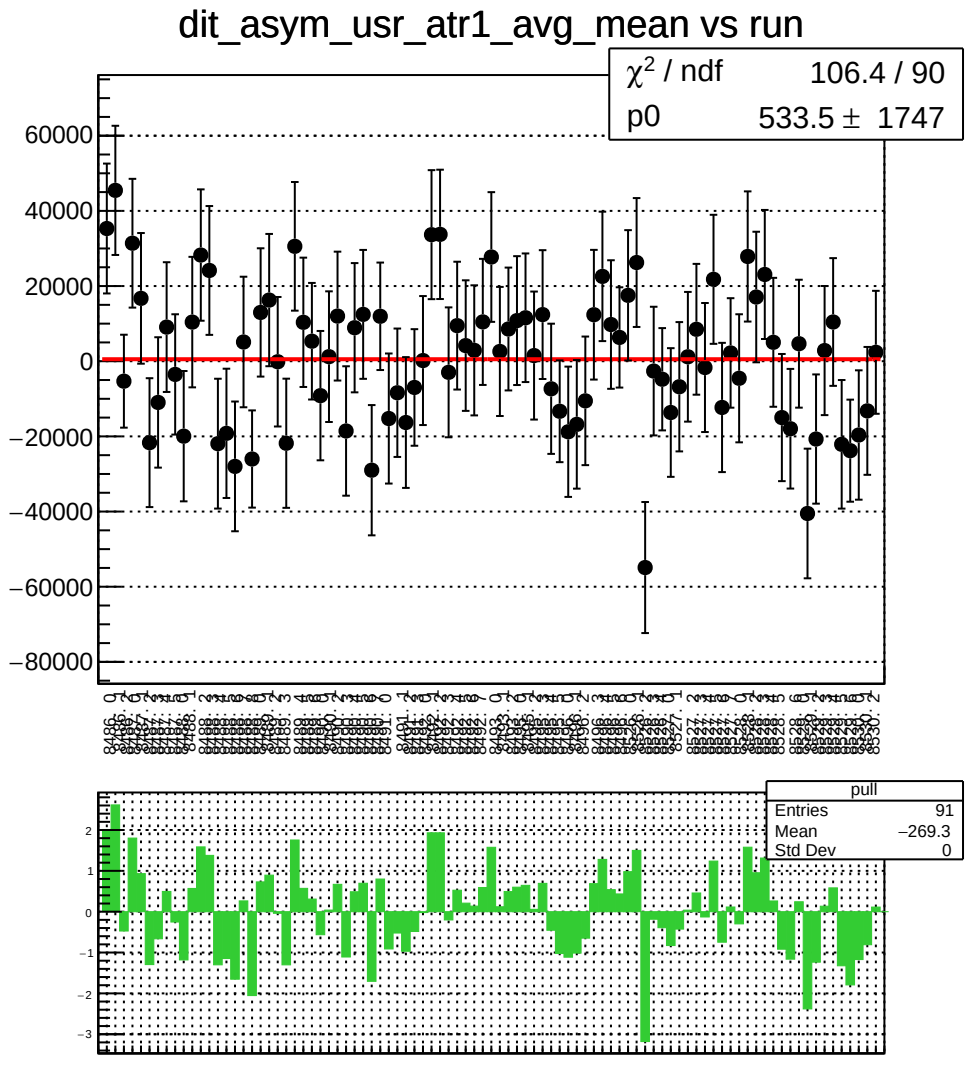

pull1D
Entries 91
Mean 0.01663
Std Dev 1.077

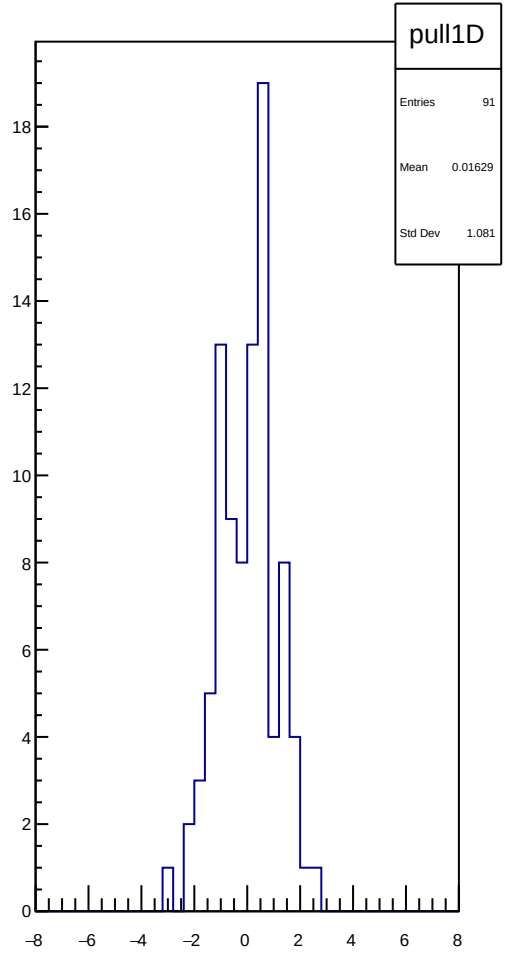

eigen_cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 88.32 / 90
p0 1632 ± 1.234
1680
1660
1640
1620
1600

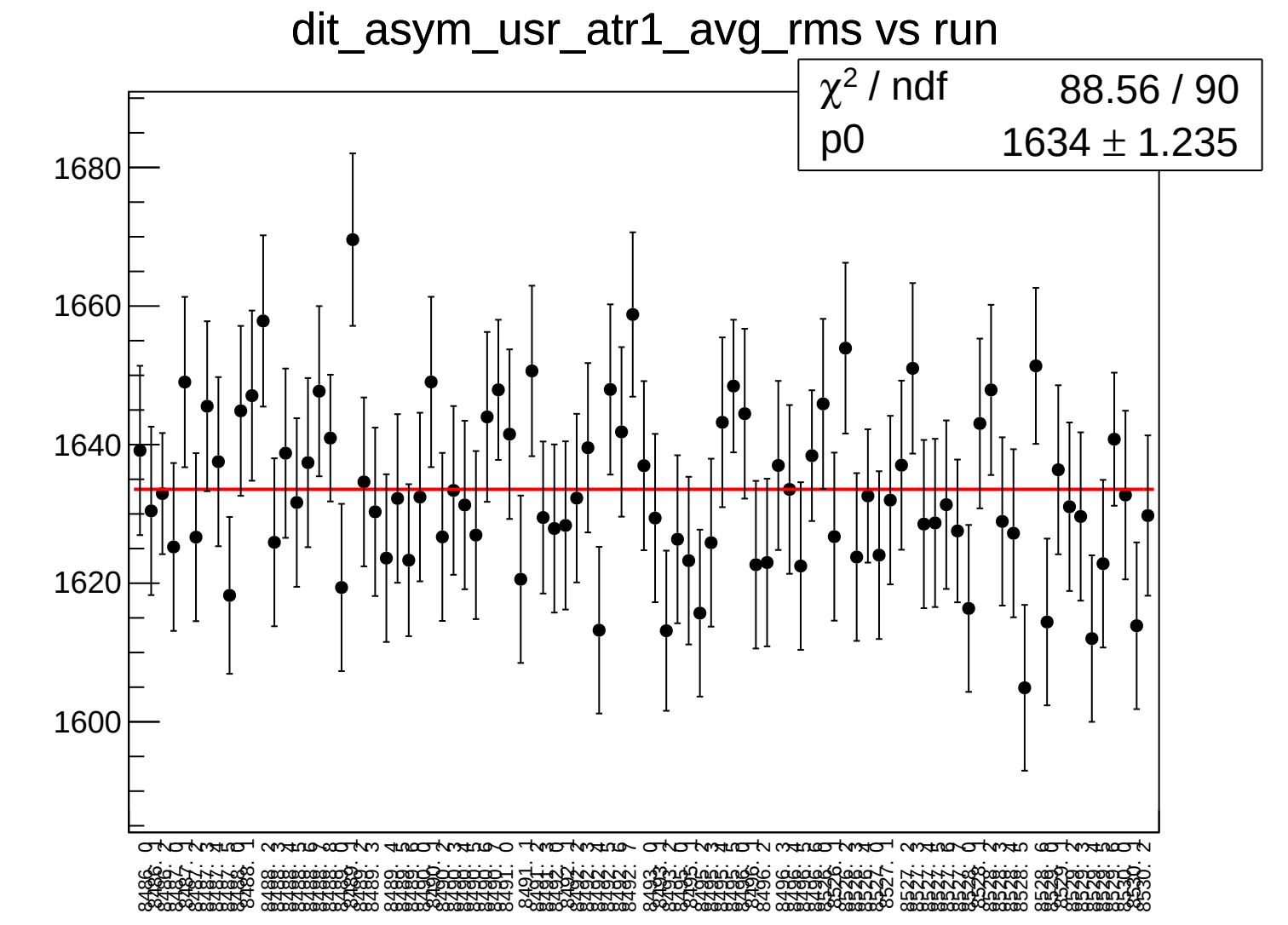

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
χ² / ndf 100.2 / 90
p0 −1129 ± 2035
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean 32.94
Std Dev 0
2
1
0
−1
−2

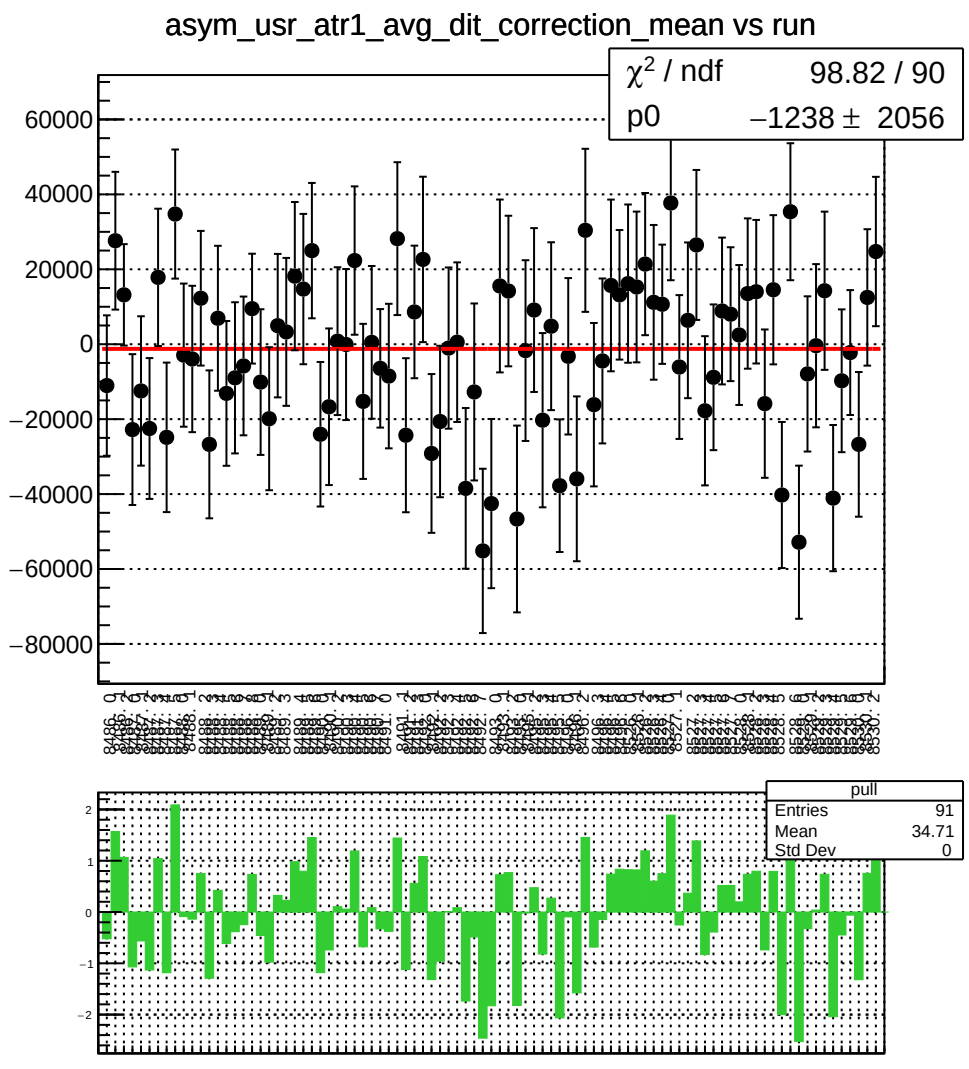

pull1D
Entries 91
Mean −0.02946
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

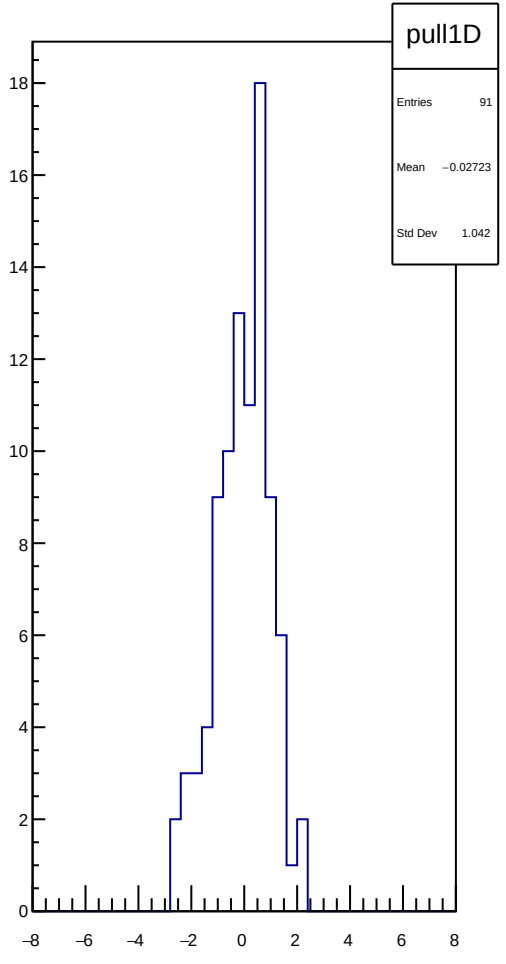

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 8366 / 90
p0 1899 ± 1.439
2500
2400
2300
2200
2100
2000
1900
1800
1700
1600

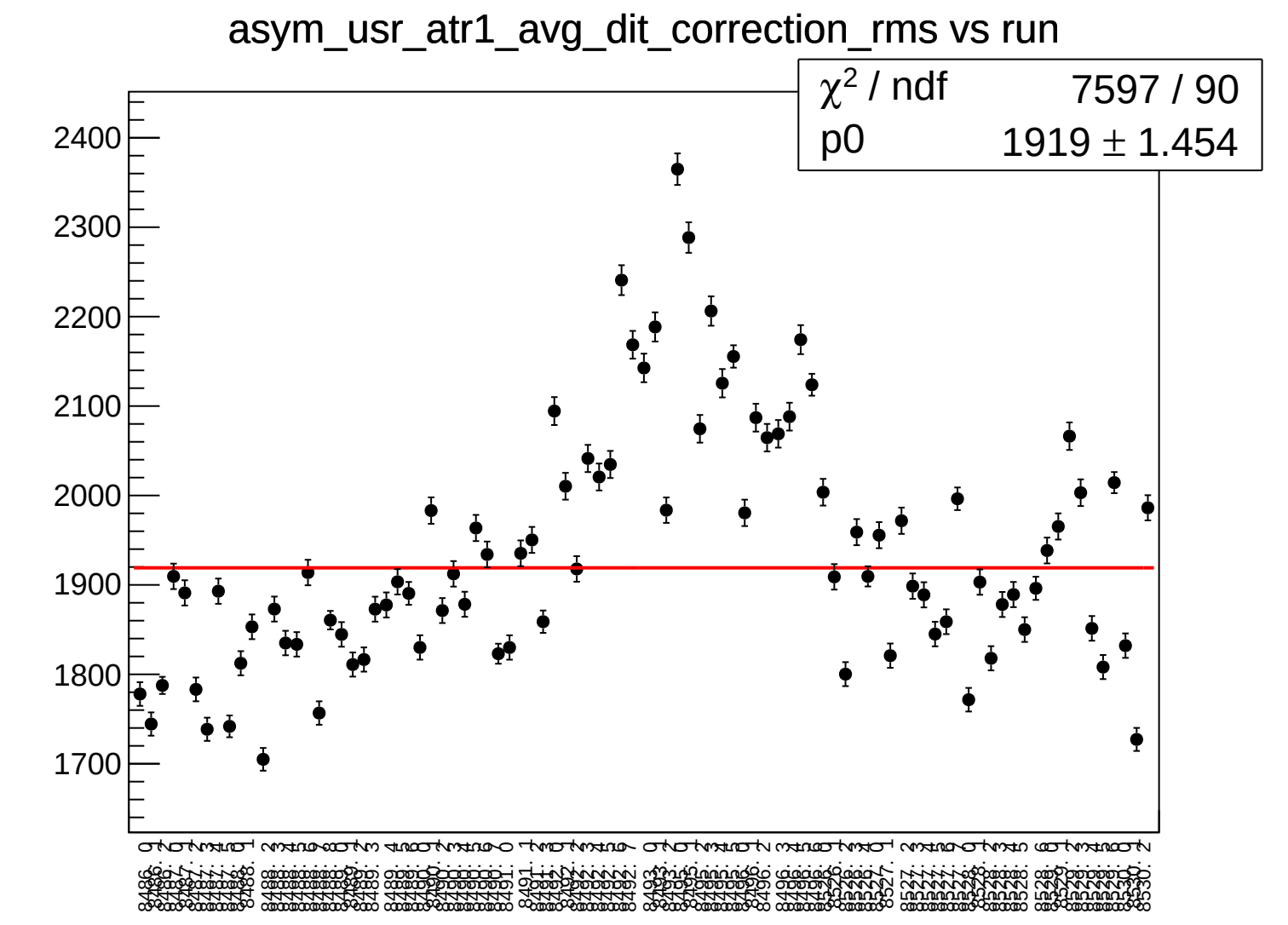

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 106.4 / 90
p0 533.5 ± 1747
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean −269.3
Std Dev 0
2
1
0
−1
−2
−3

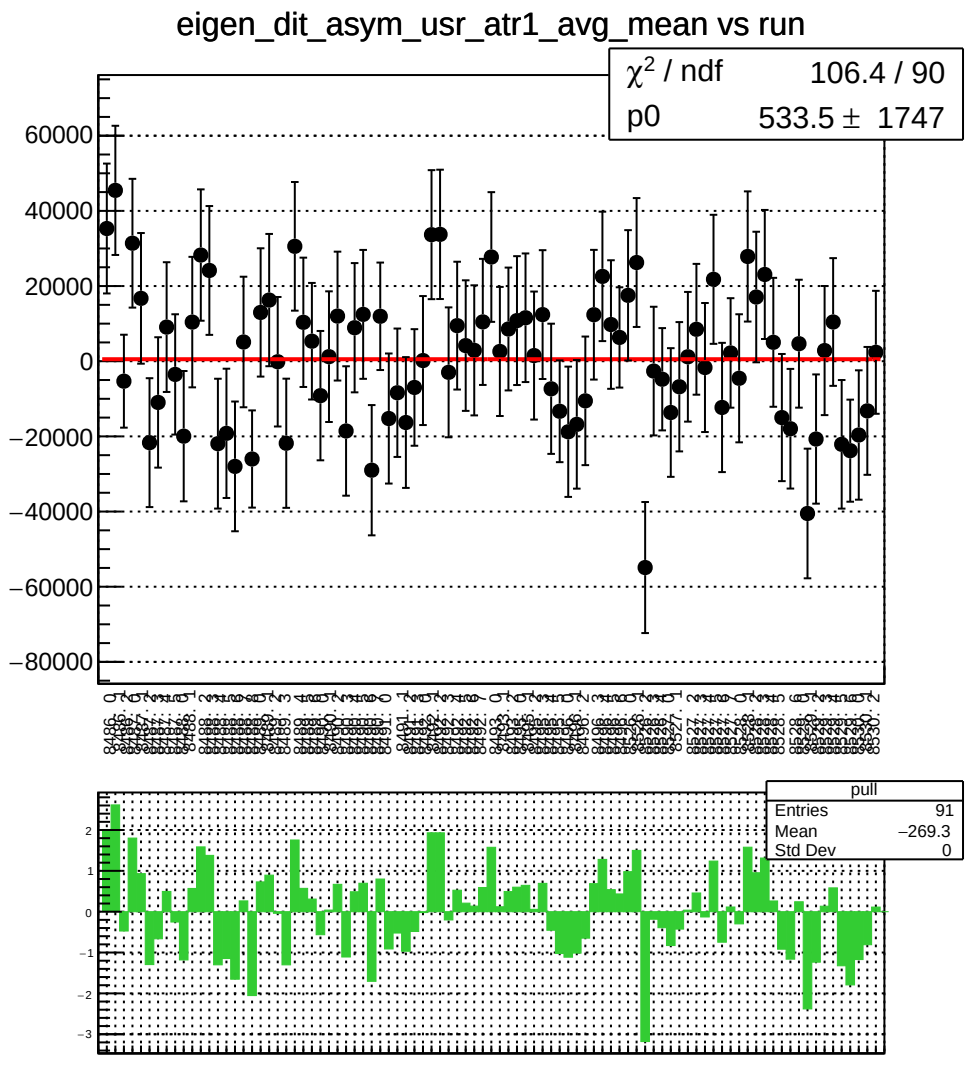

pull1D
Entries 91
Mean 0.01629
Std Dev 1.081
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

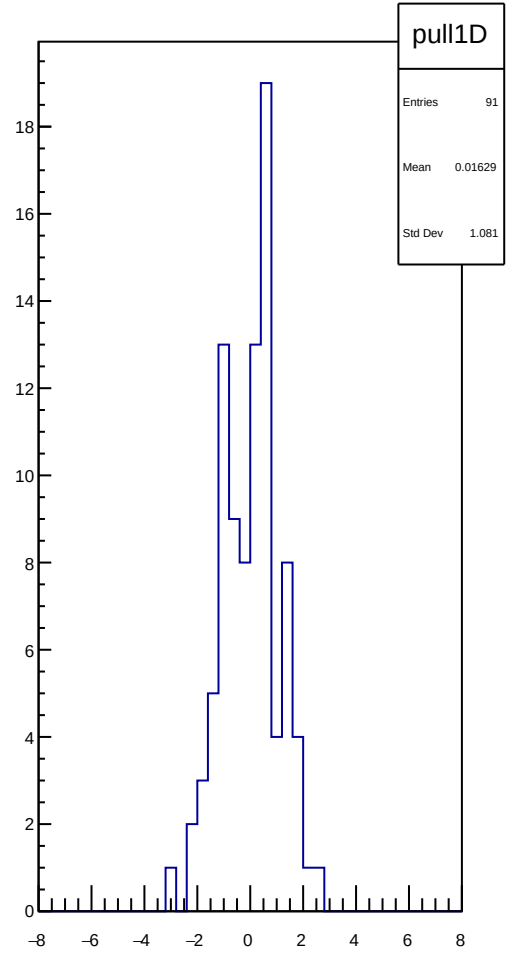

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 88.56 / 90
p0 1634 ± 1.235
1680
1660
1640
1620
1600


asym_usr_atr1_avg_dit_correction_mean vs run
χ² / ndf 98.82 / 90
p0 −1238 ± 2056
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean 34.71
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 91
Mean −0.02723
Std Dev 1.042
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 7597 / 90
p0 1919 ± 1.454
2400
2300
2200
2100
2000
1900
1800
1700


eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 106.4 / 90
p0 533.5 ± 1747
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean −269.3
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 91
Mean 0.01629
Std Dev 1.081
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
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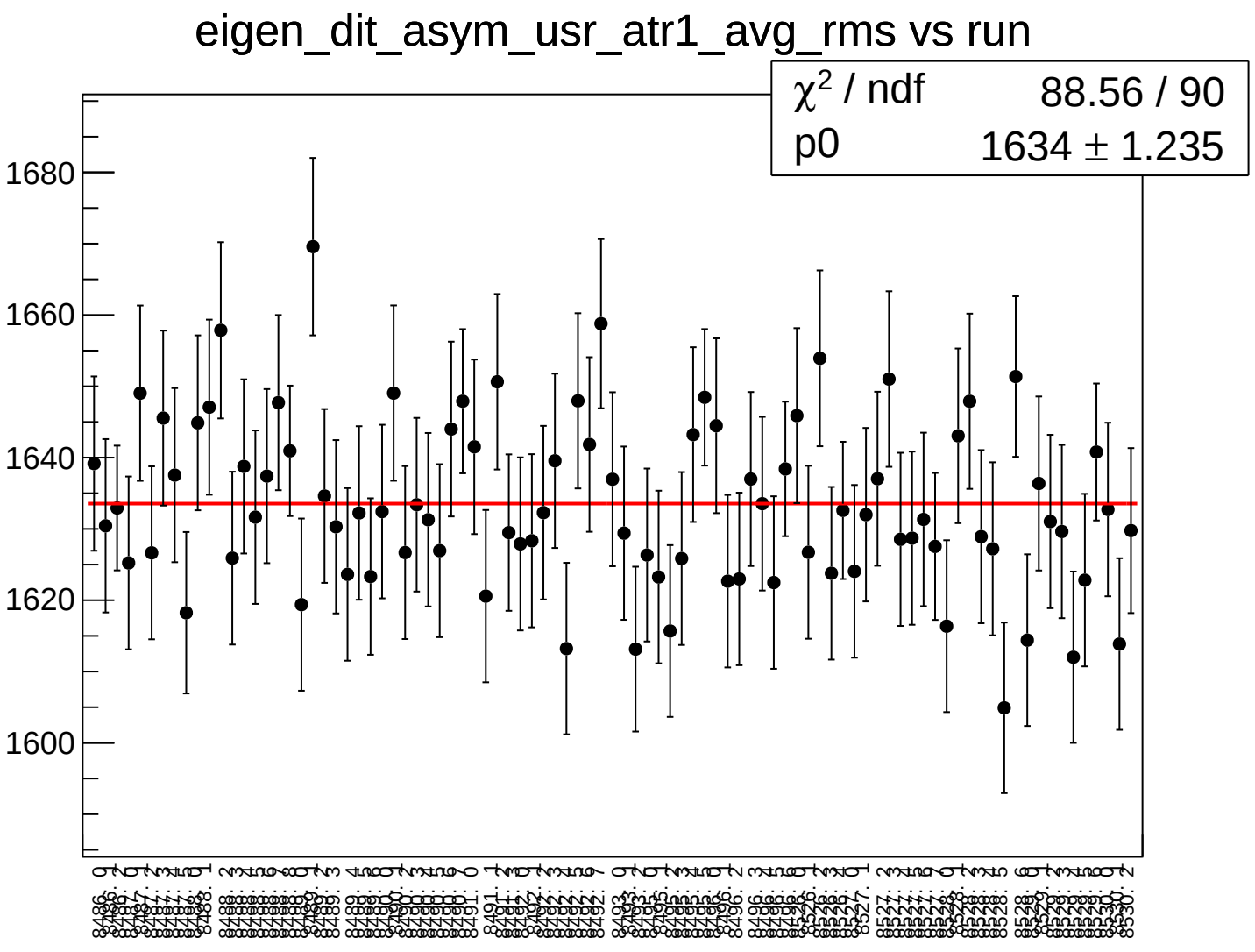
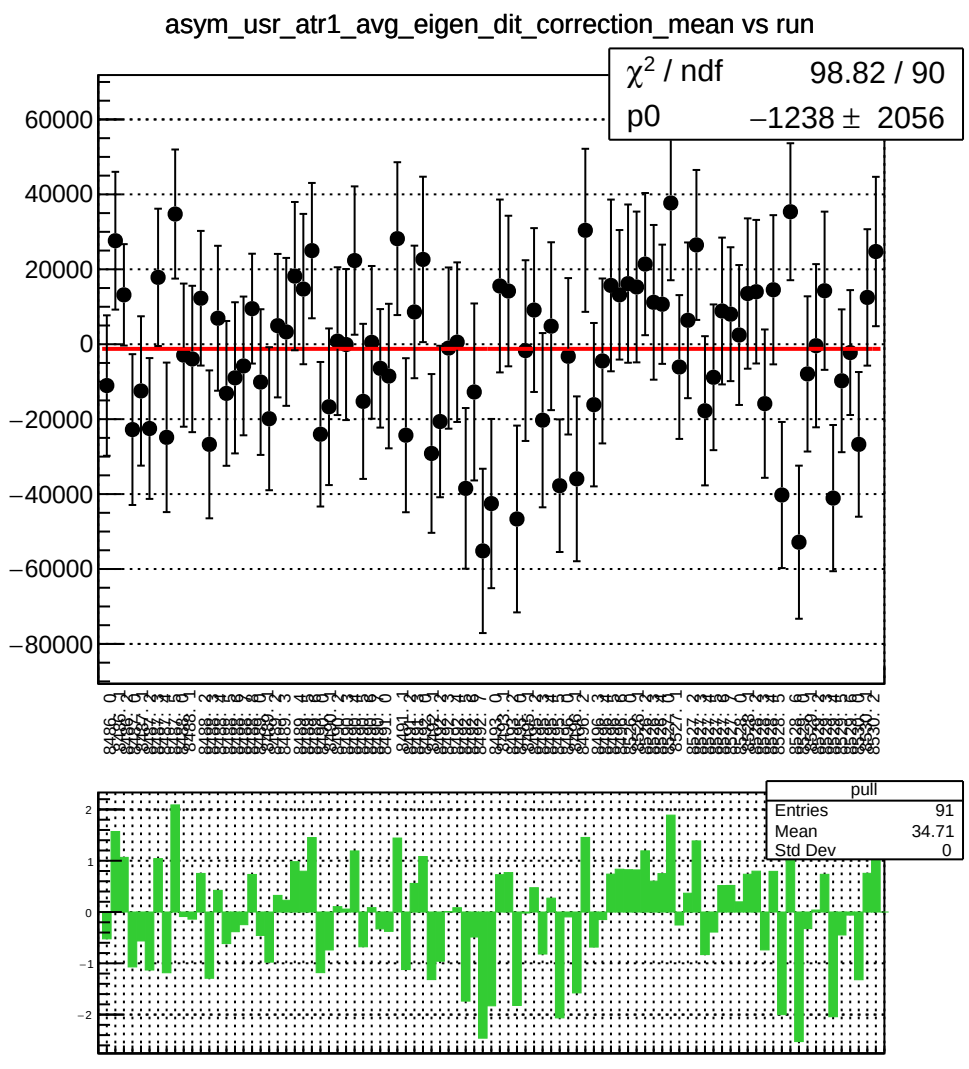
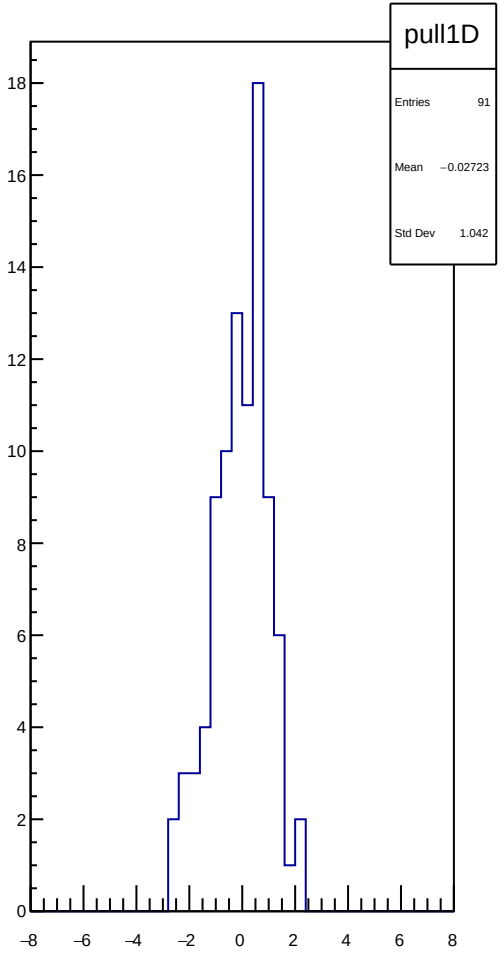
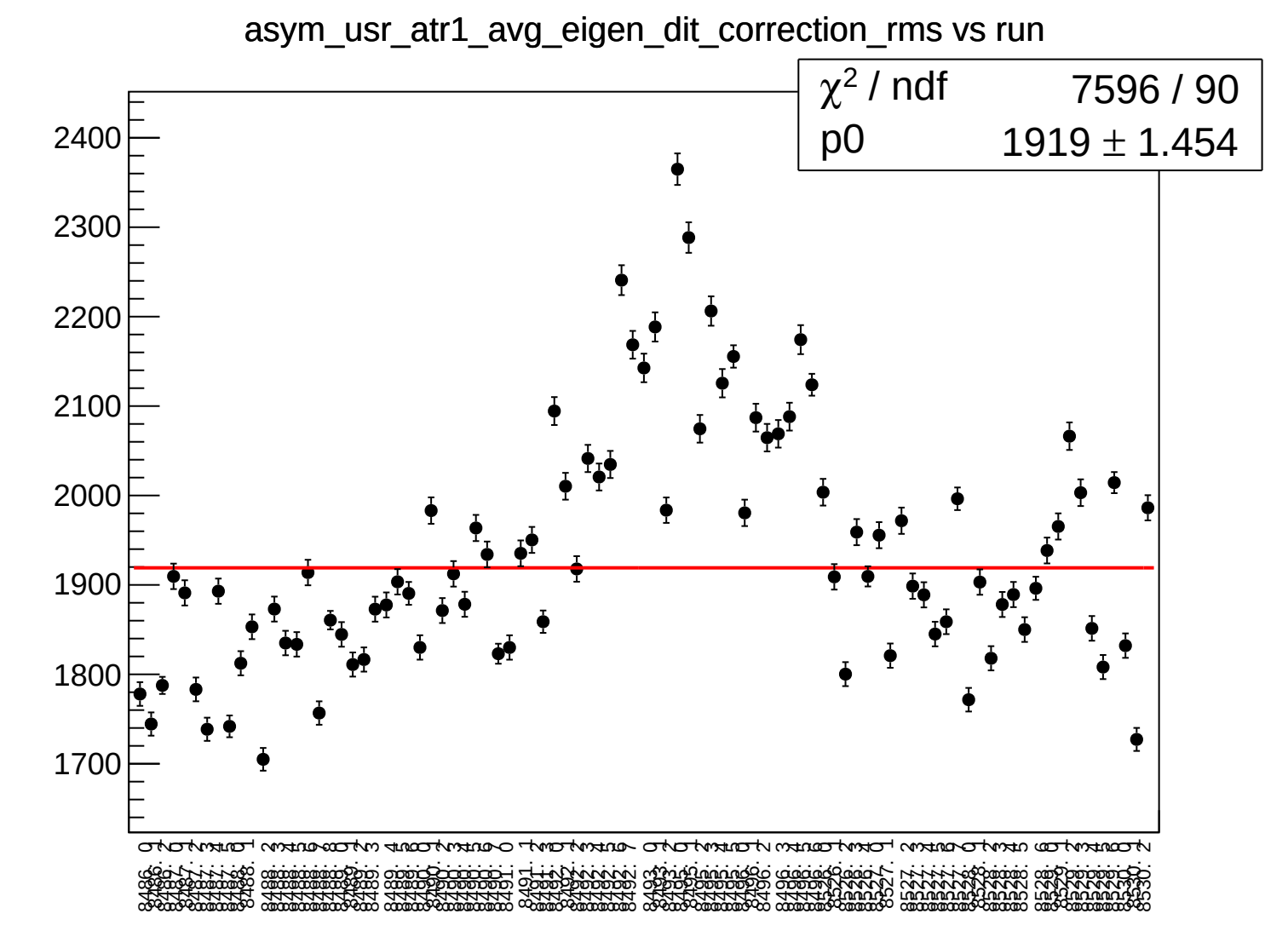
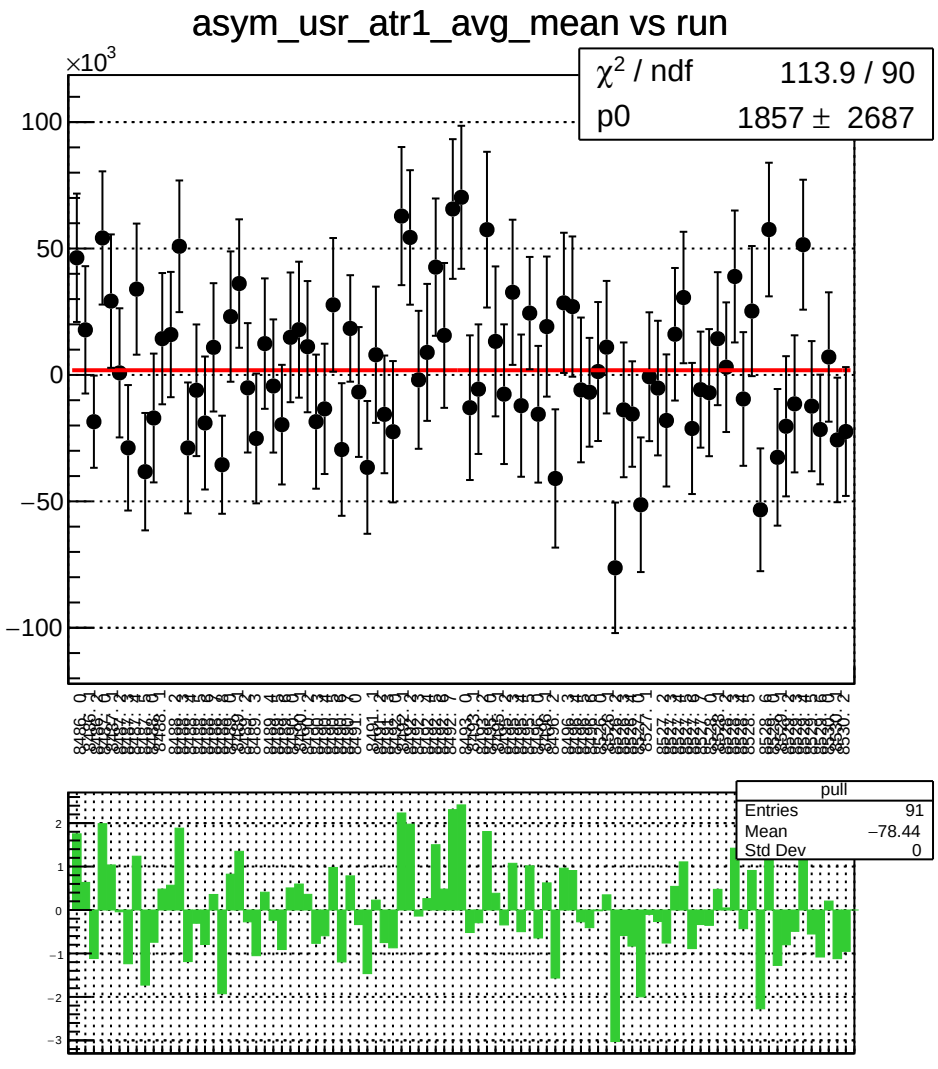
0
2
4
6
8

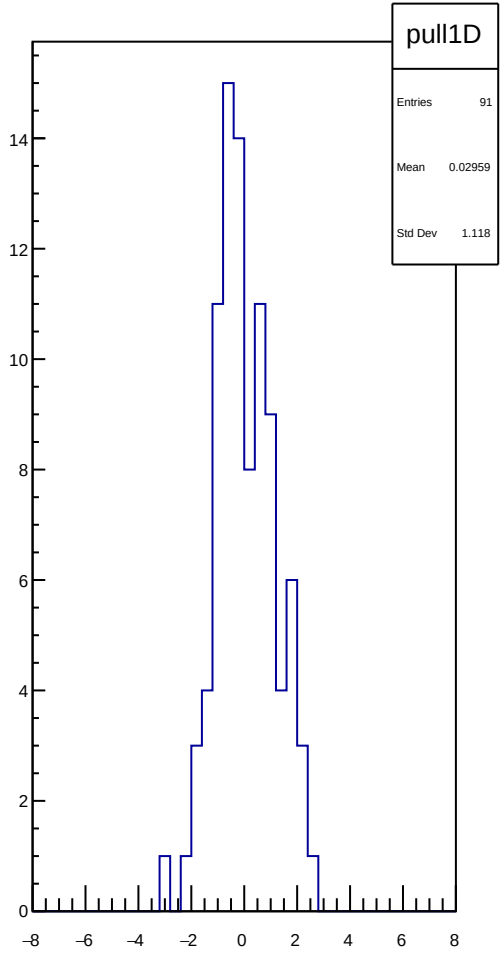

eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 88.56 / 90
p0 1634 ± 1.235
1680
1660
1640
1620
1600

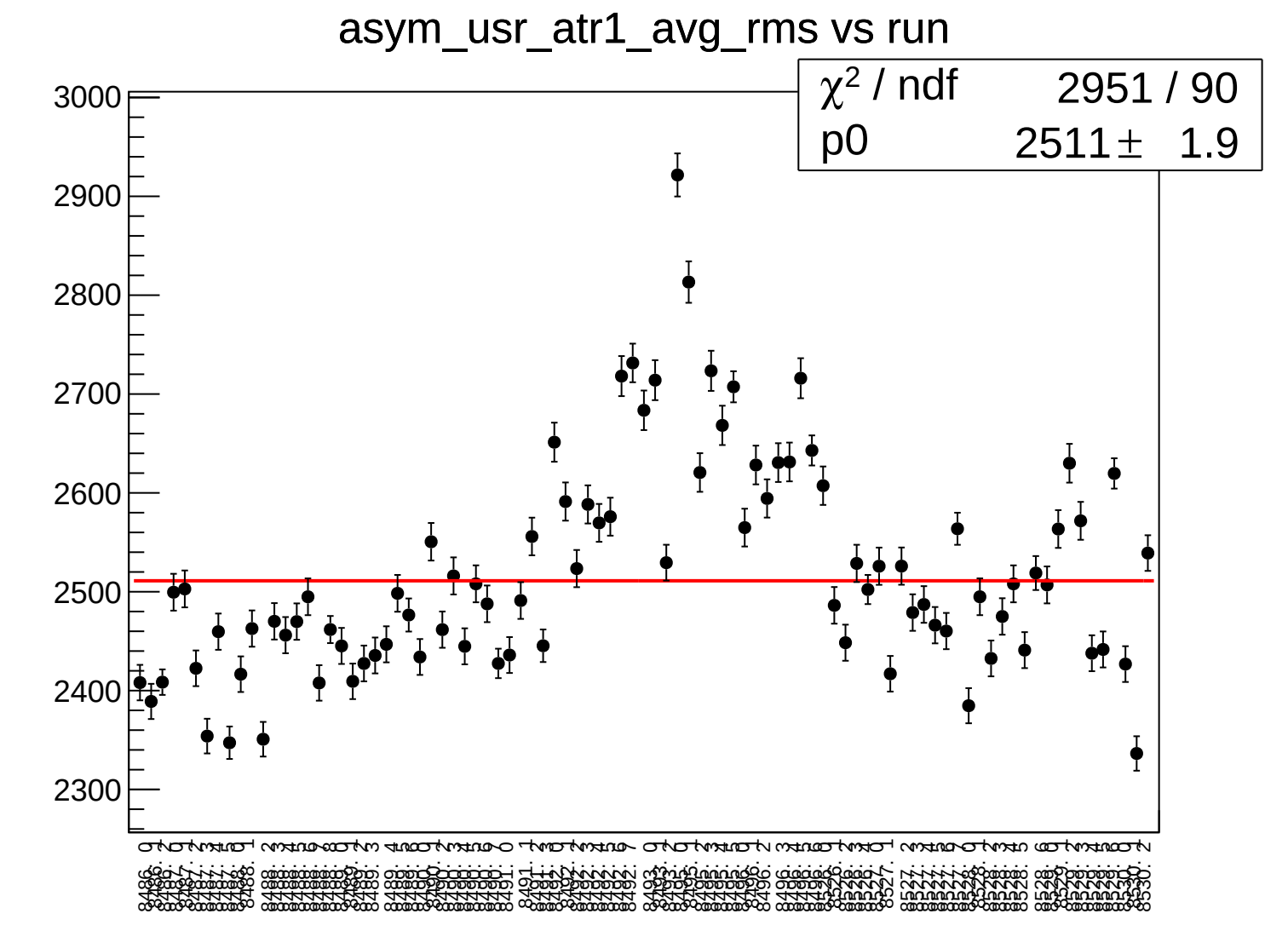

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
χ² / ndf 98.82 / 90
p0 −1238 ± 2056
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean 34.71
Std Dev 0
2
1
0
−1
−2

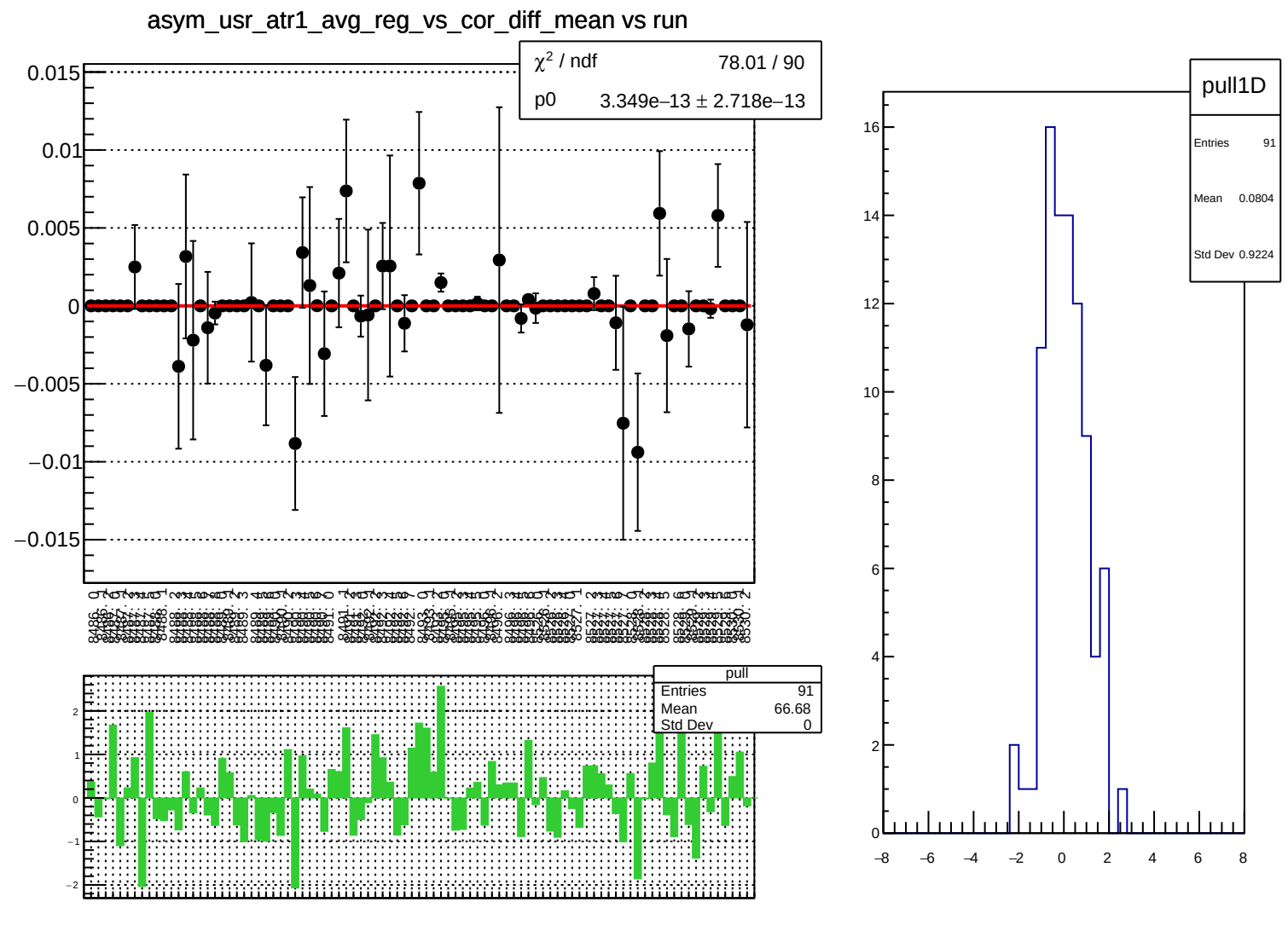

pull1D
Entries 91
Mean −0.02723
Std Dev 1.042
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

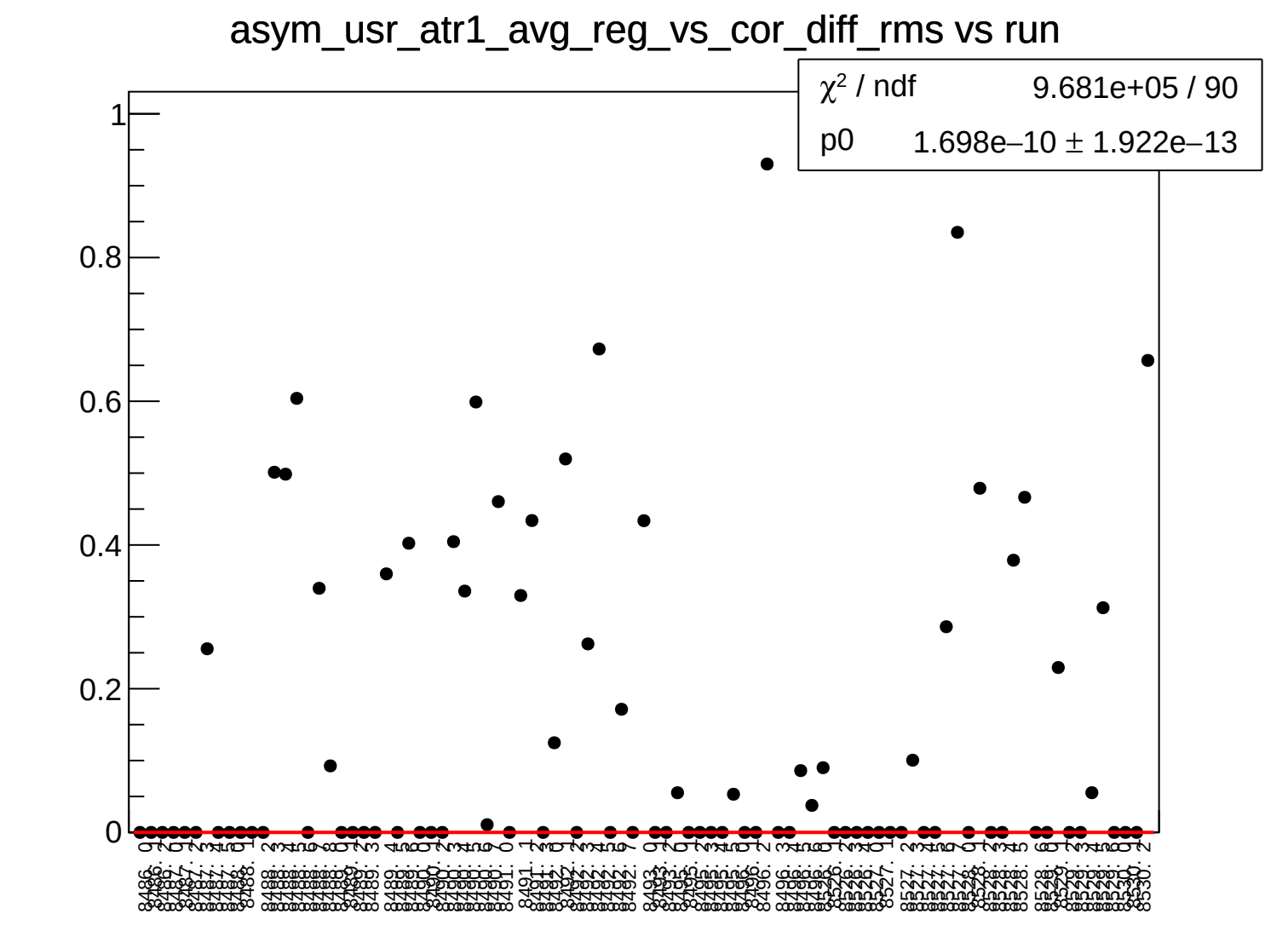

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 7596 / 90
p0 1919 ± 1.454
2400
2300
2200
2100
2000
1900
1800
1700

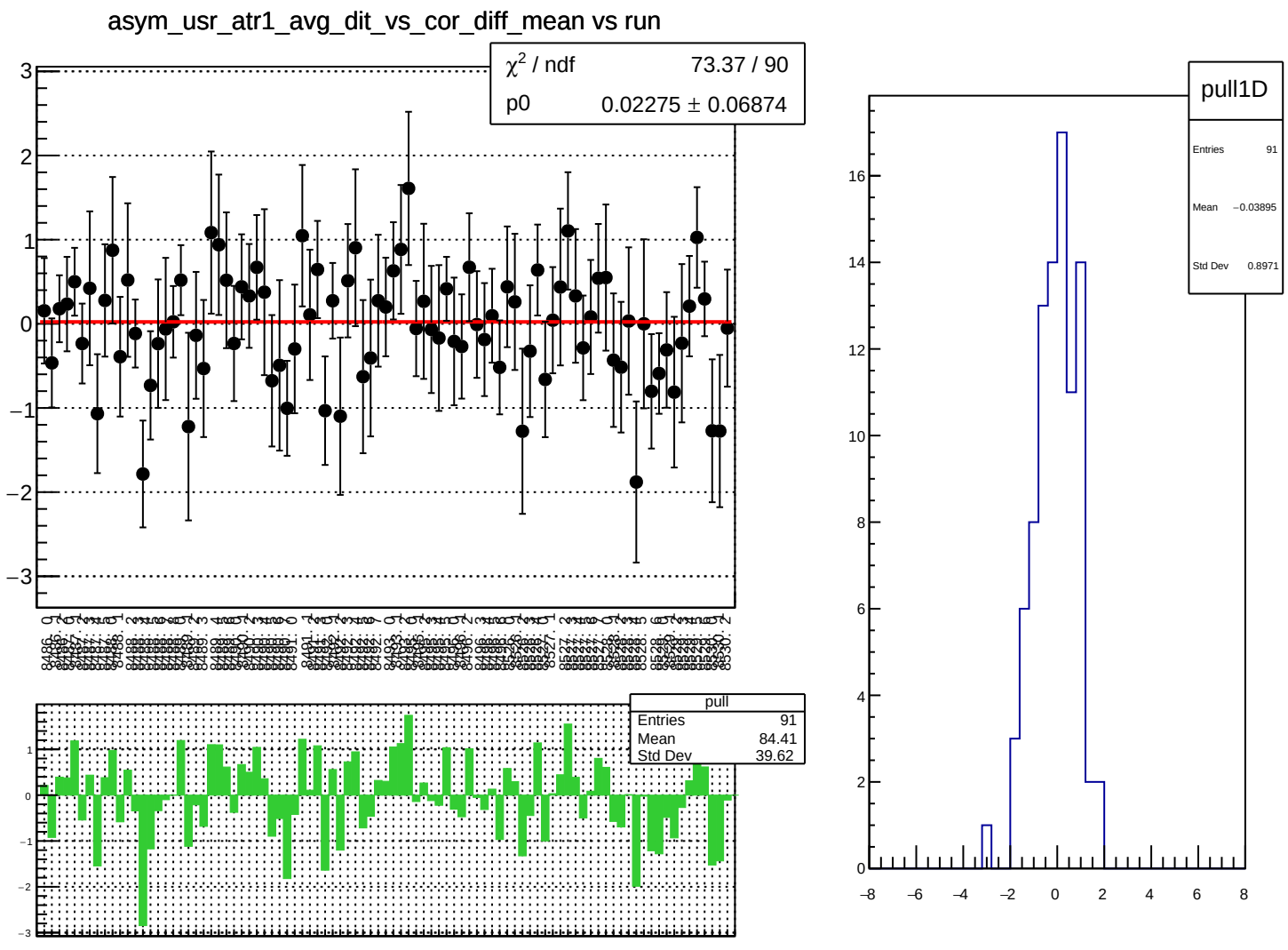

asym_usr_atr1_avg_mean vs run
×10^3
χ^2 / ndf 113.9 / 90
p0 1857 ± 2687
100
50
0
−50
−100
pull
Entries 91
Mean −78.44
Std Dev 0
2
1
0
−1
−2
−3

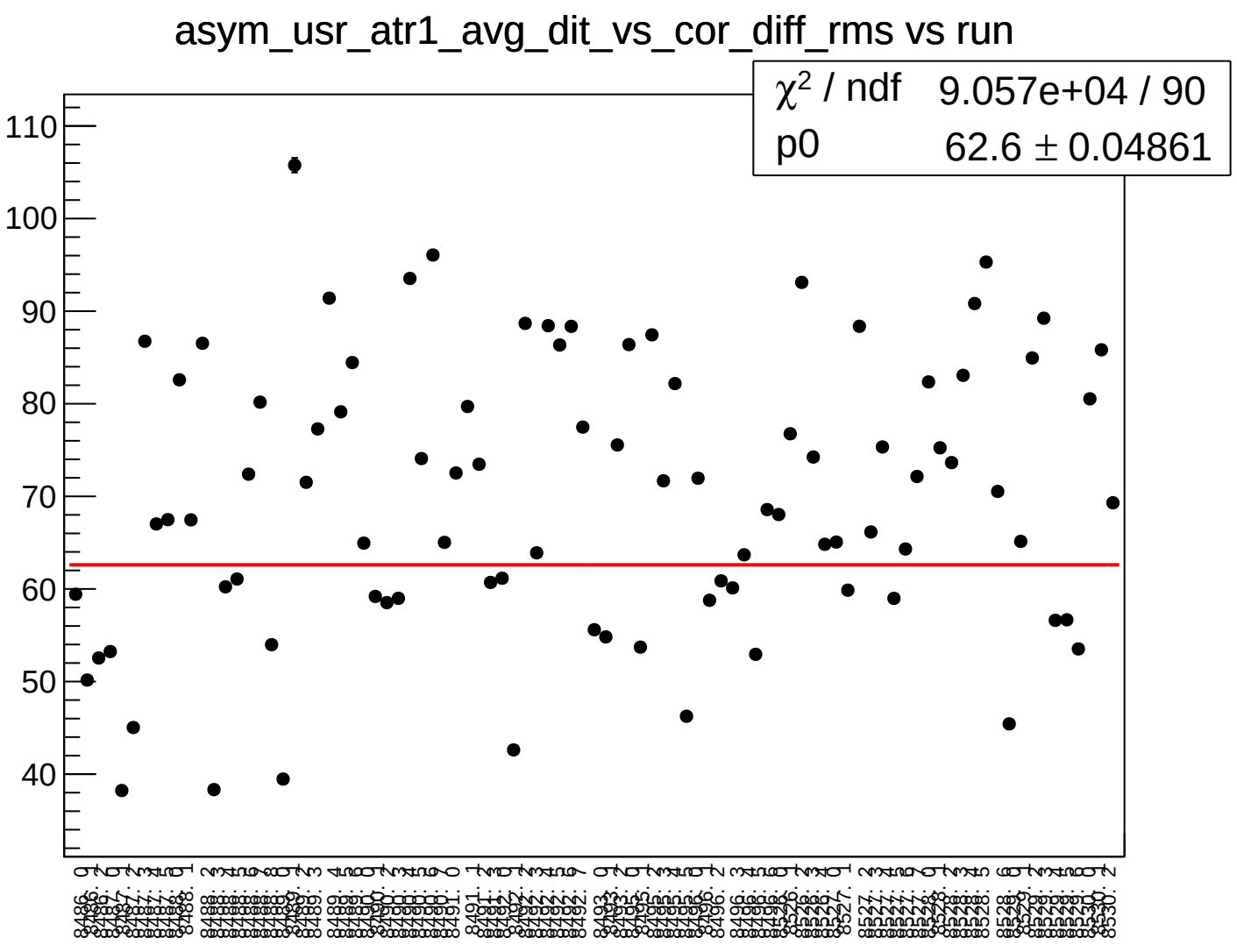

pull1D
Entries 91
Mean 0.02959
Std Dev 1.118
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

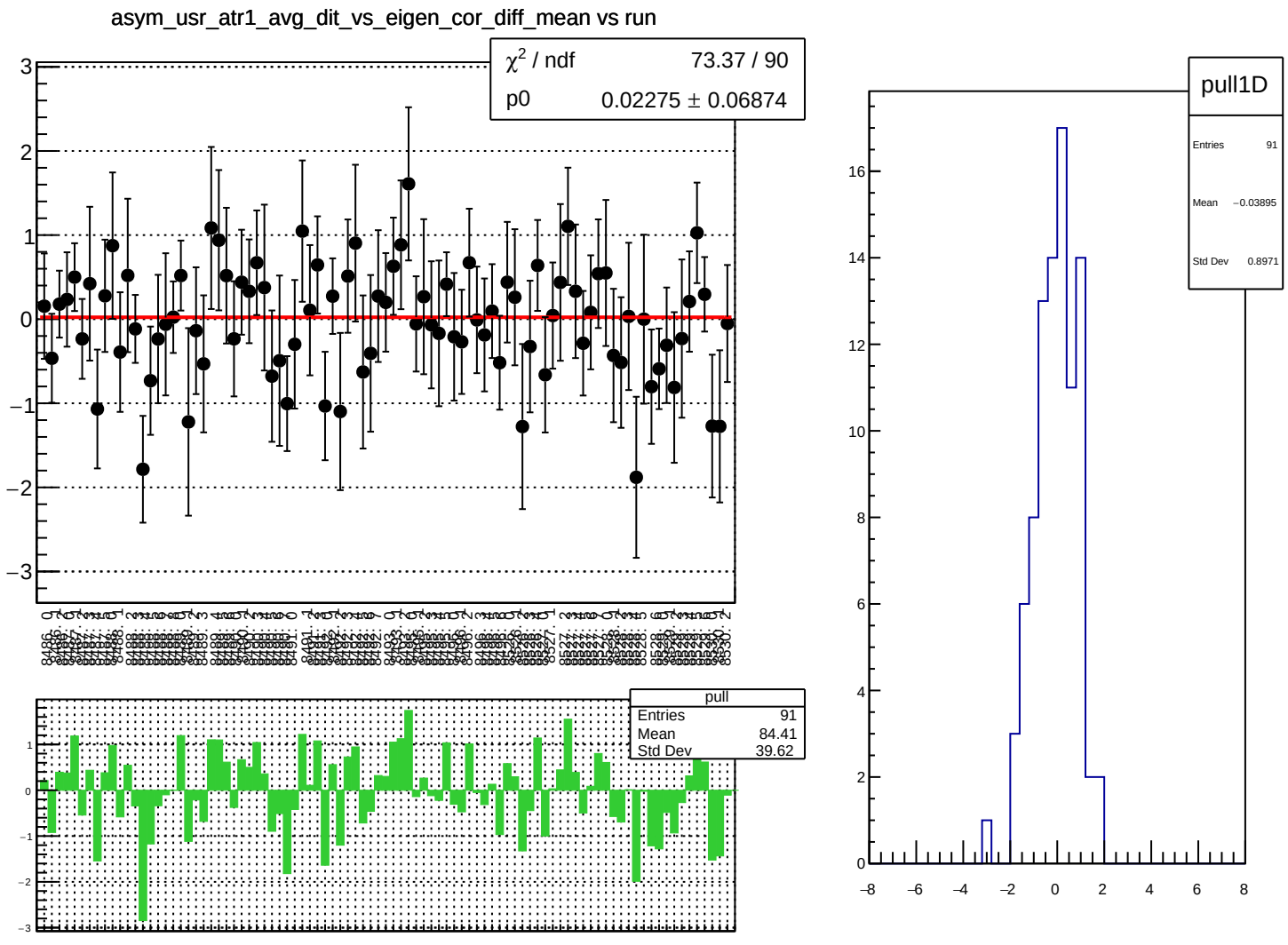

asym_usr_atr1_avg_rms vs run
χ² / ndf 2951 / 90
p0 2511 ± 1.9
3000
2900
2800
2700
2600
2500
2400
2300

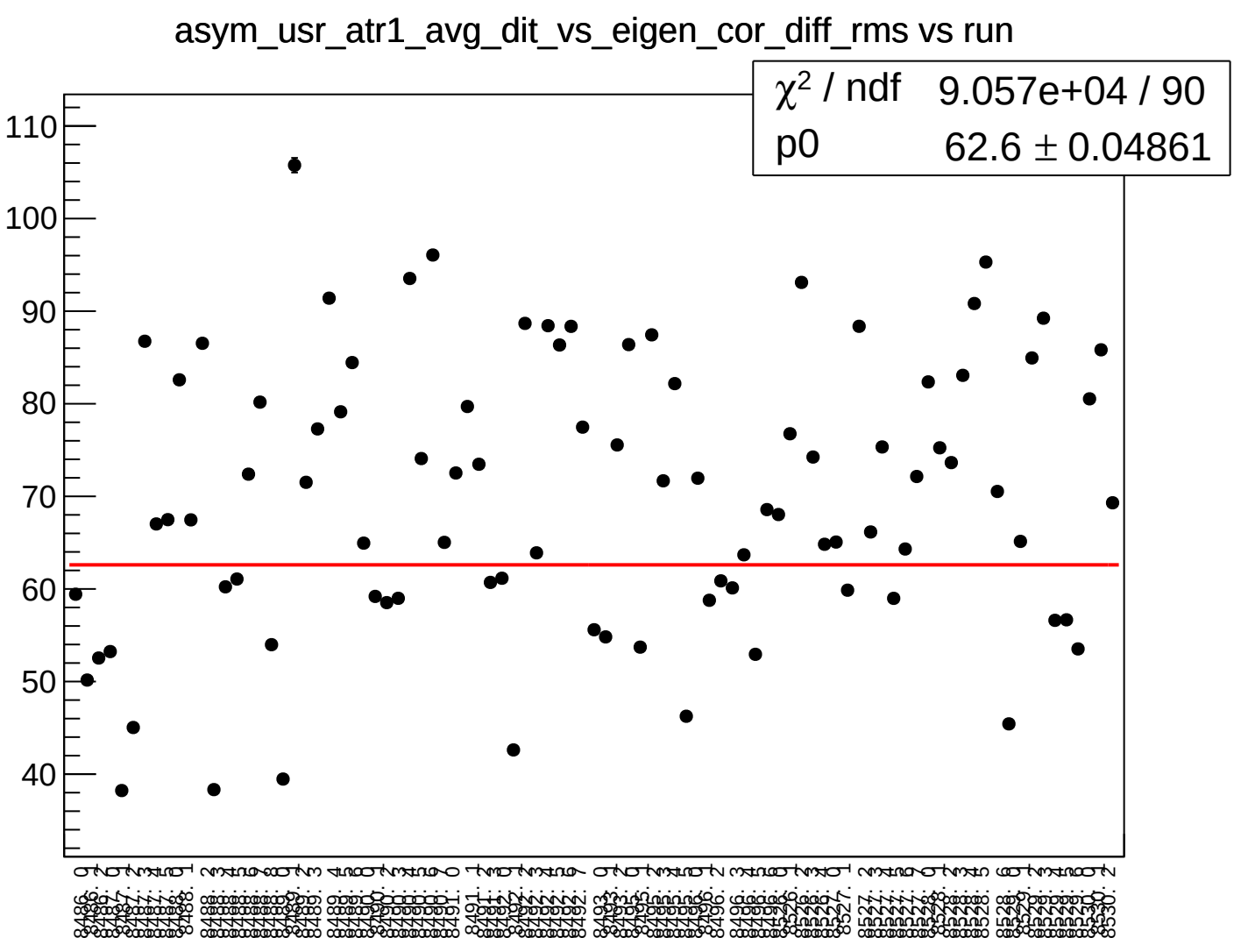

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 78.01 / 90
p0 3.349e−13 ± 2.718e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 91
Mean 66.68
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.0804
Std Dev 0.9224
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

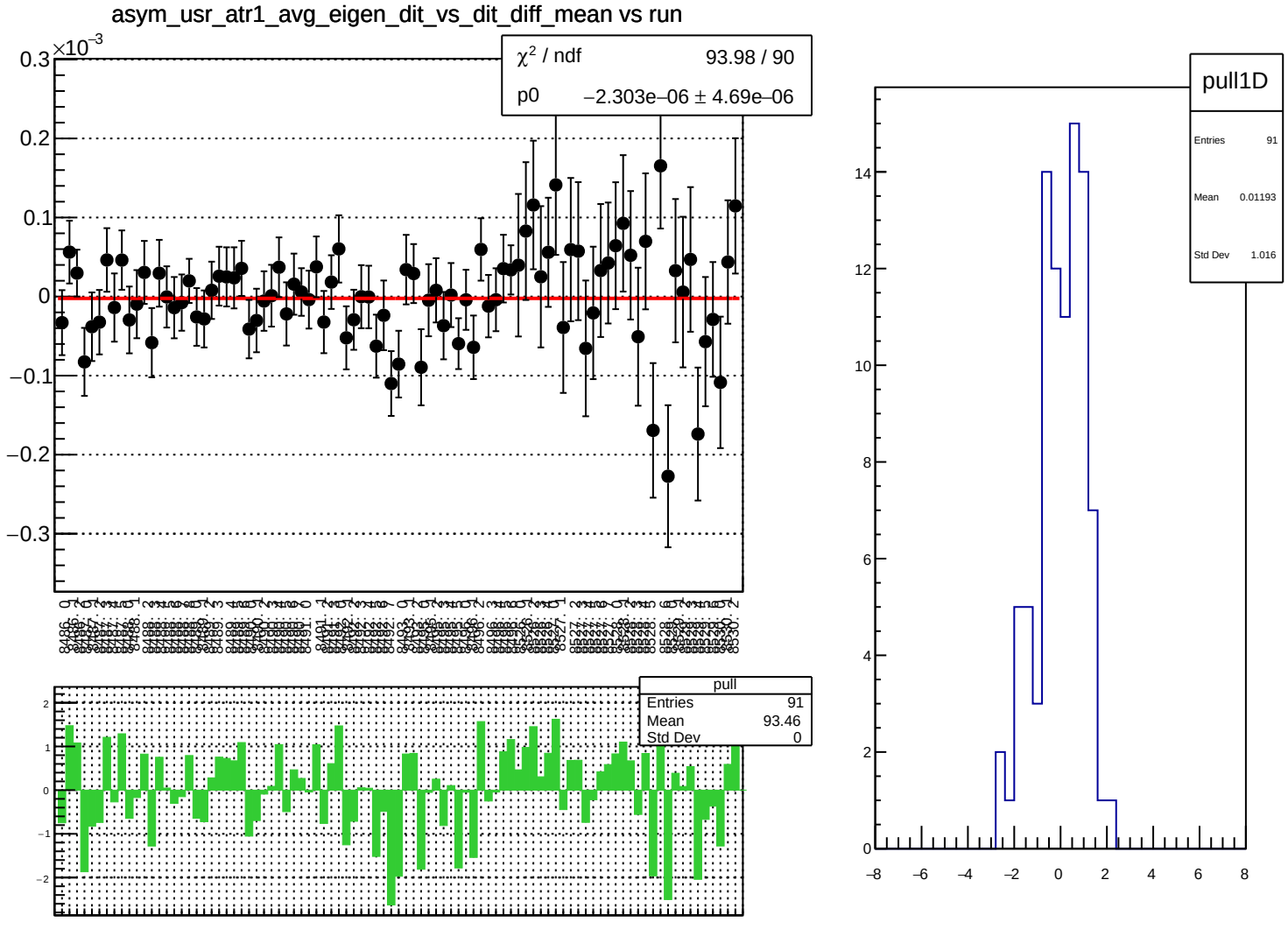

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.681e+05 / 90
p0 1.698e−10 ± 1.922e−13
1
0.8
0.6
0.4
0.2
0

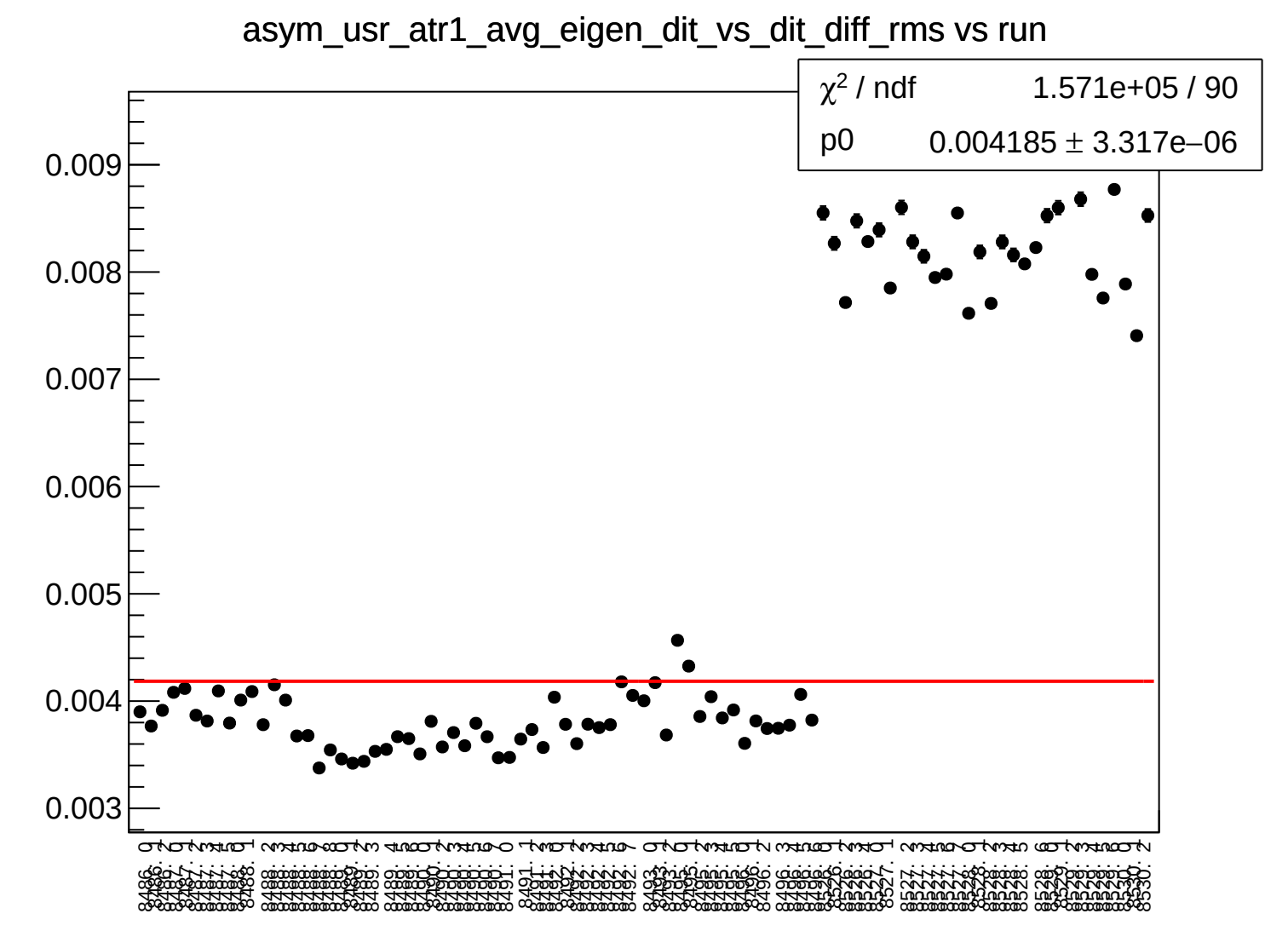

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 73.37 / 90
p0 0.02275 ± 0.06874
pull
Entries 91
Mean 84.41
Std Dev 39.62
pull1D
Entries 91
Mean −0.03895
Std Dev 0.8971

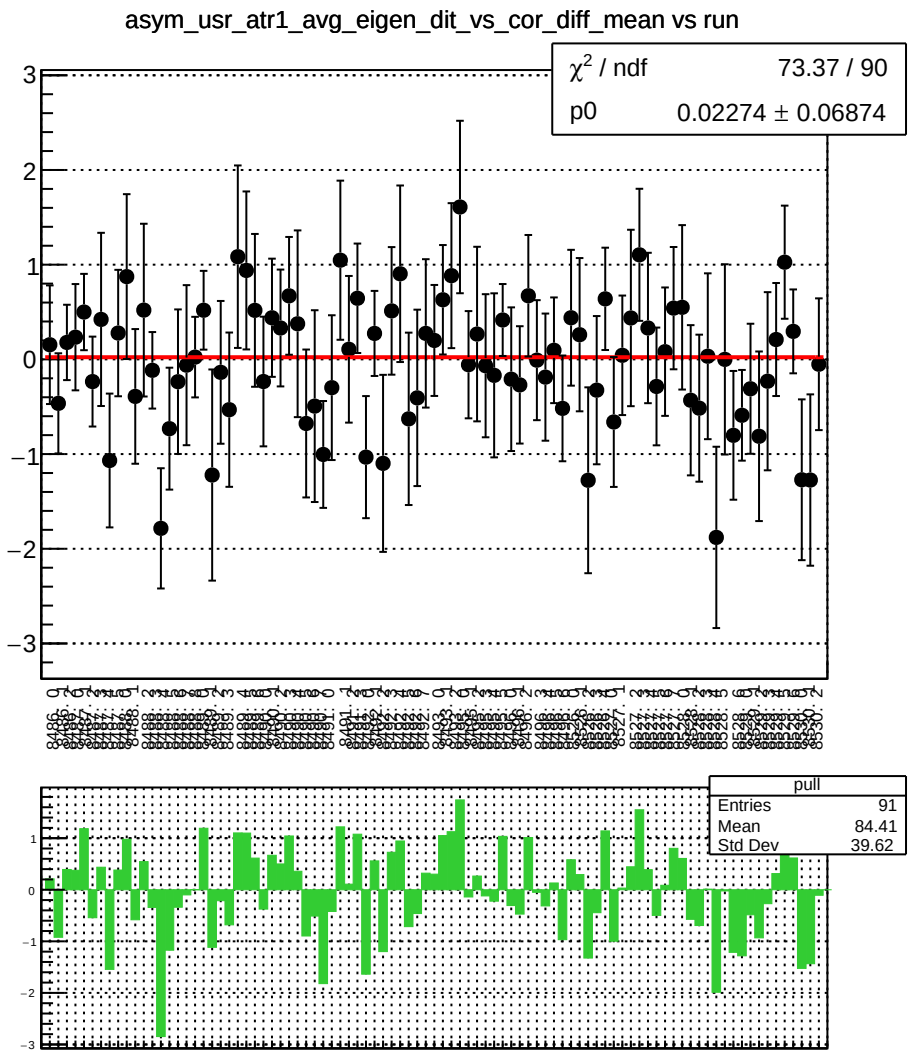

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.057e+04 / 90
p0 62.6 ± 0.04861
110
100
90
80
70
60
50
40

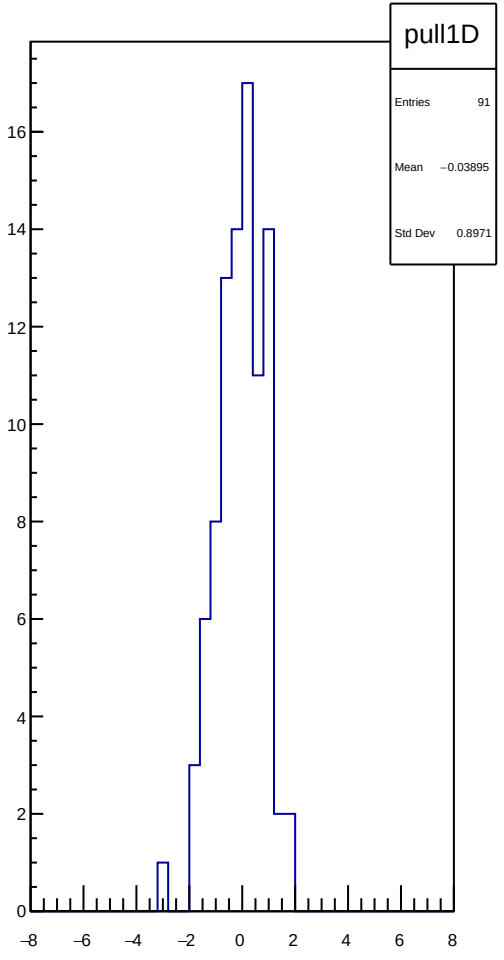

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.37 / 90
p0 0.02275 ± 0.06874
pull
Entries 91
Mean 84.41
Std Dev 39.62
pull1D
Entries 91
Mean −0.03895
Std Dev 0.8971

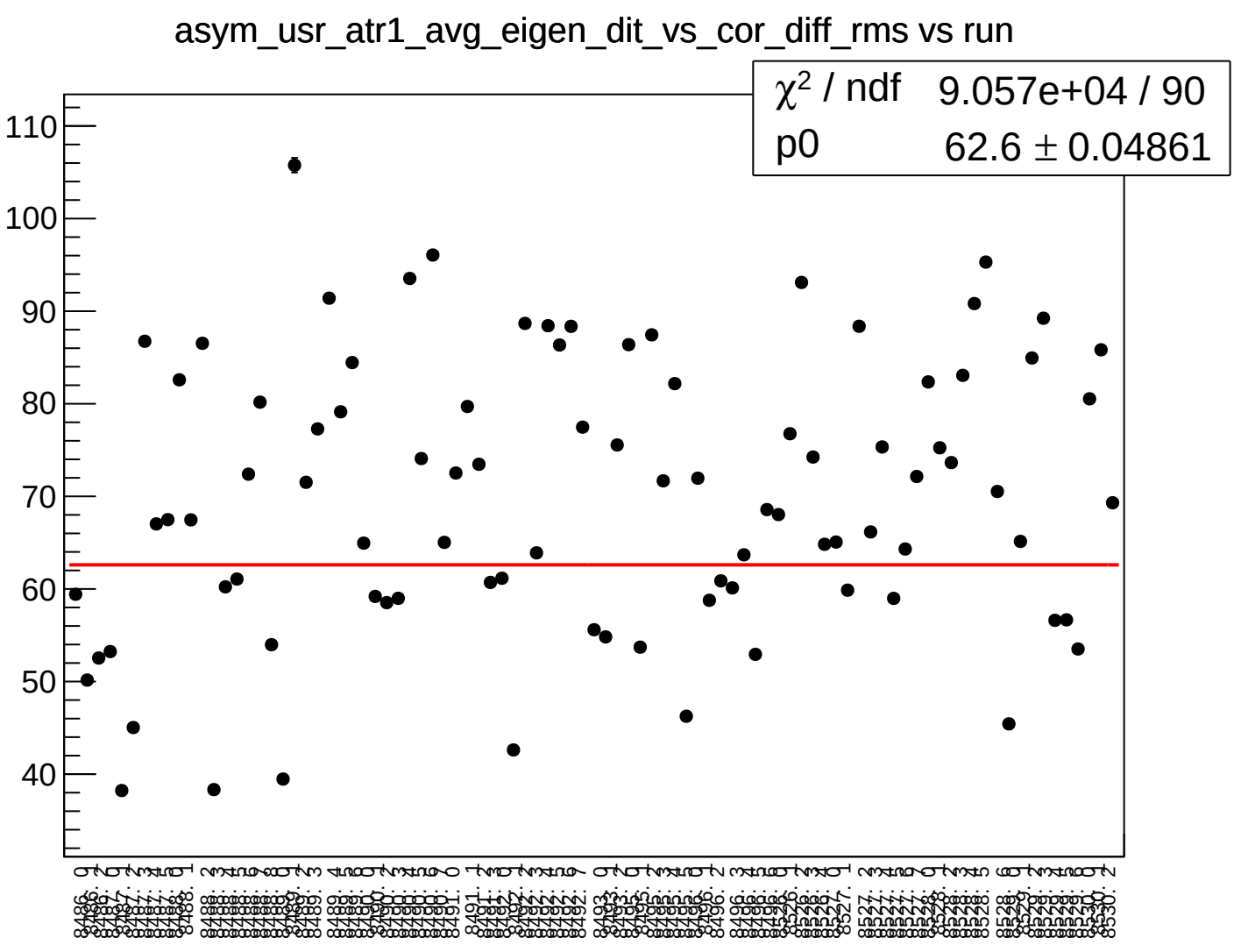

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.057e+04 / 90
p0 62.6 ± 0.04861
110
100
90
80
70
60
50
40

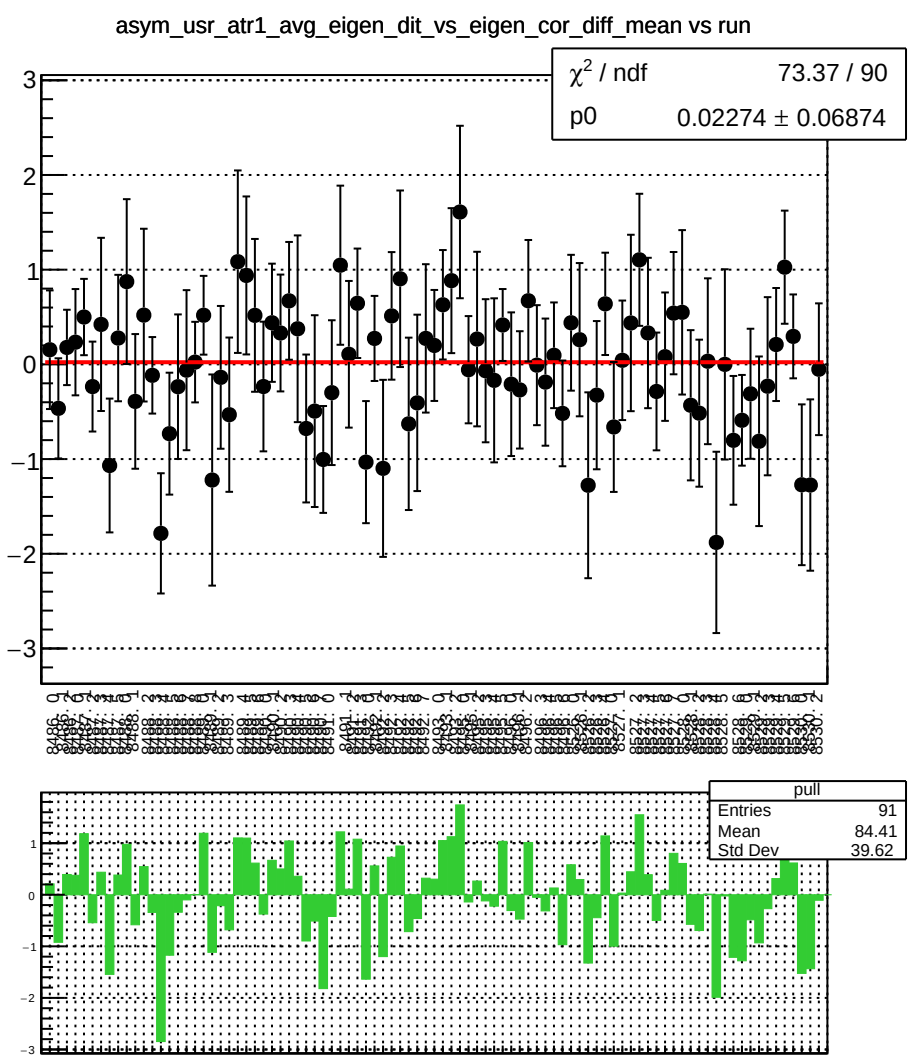

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.98 / 90
p0 −2.303e−06 ± 4.69e−06
pull
Entries 91
Mean 93.46
Std Dev 0
pull1D
Entries 91
Mean 0.01193
Std Dev 1.016

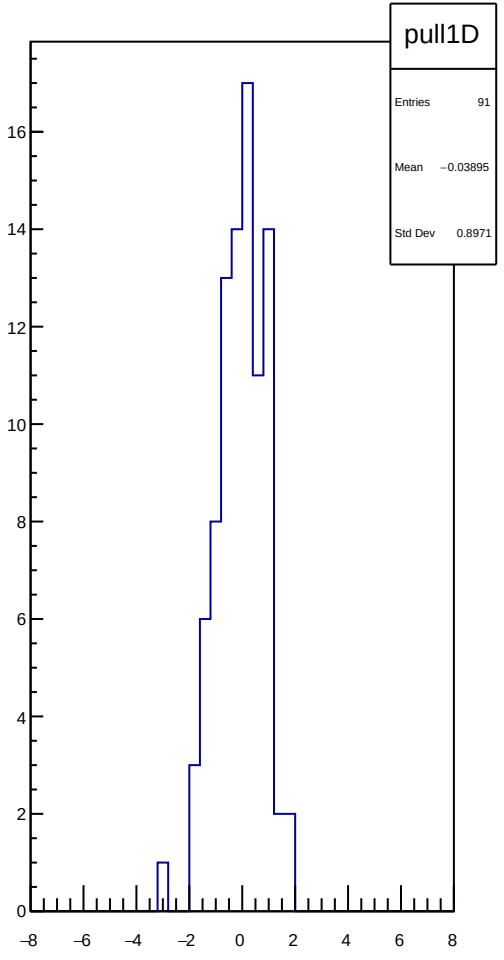

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.571e+05 / 90
p0 0.004185 ± 3.317e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003

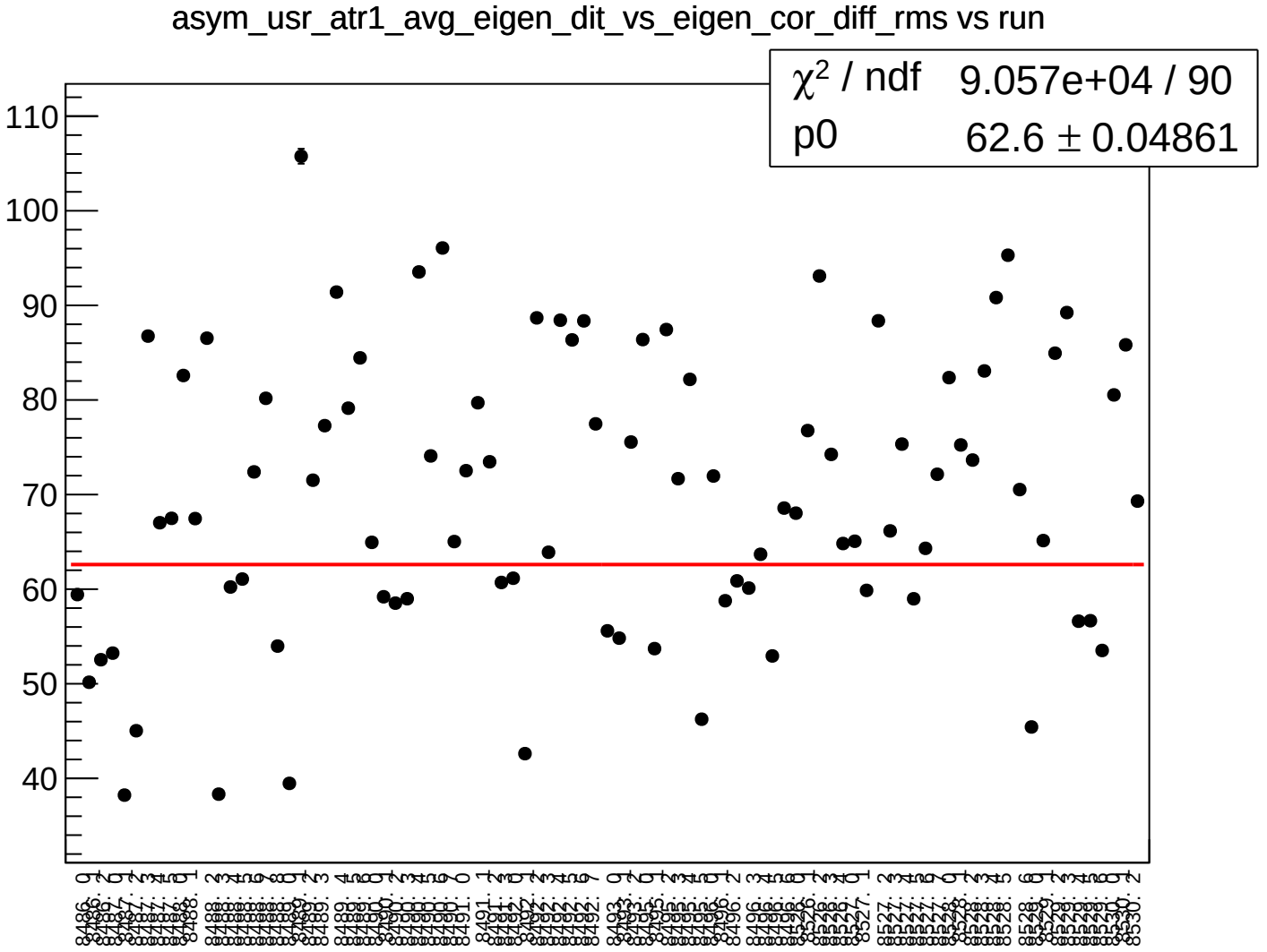

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.37 / 90
p0 0.02274 ± 0.06874
pull
Entries 91
Mean 84.41
Std Dev 39.62

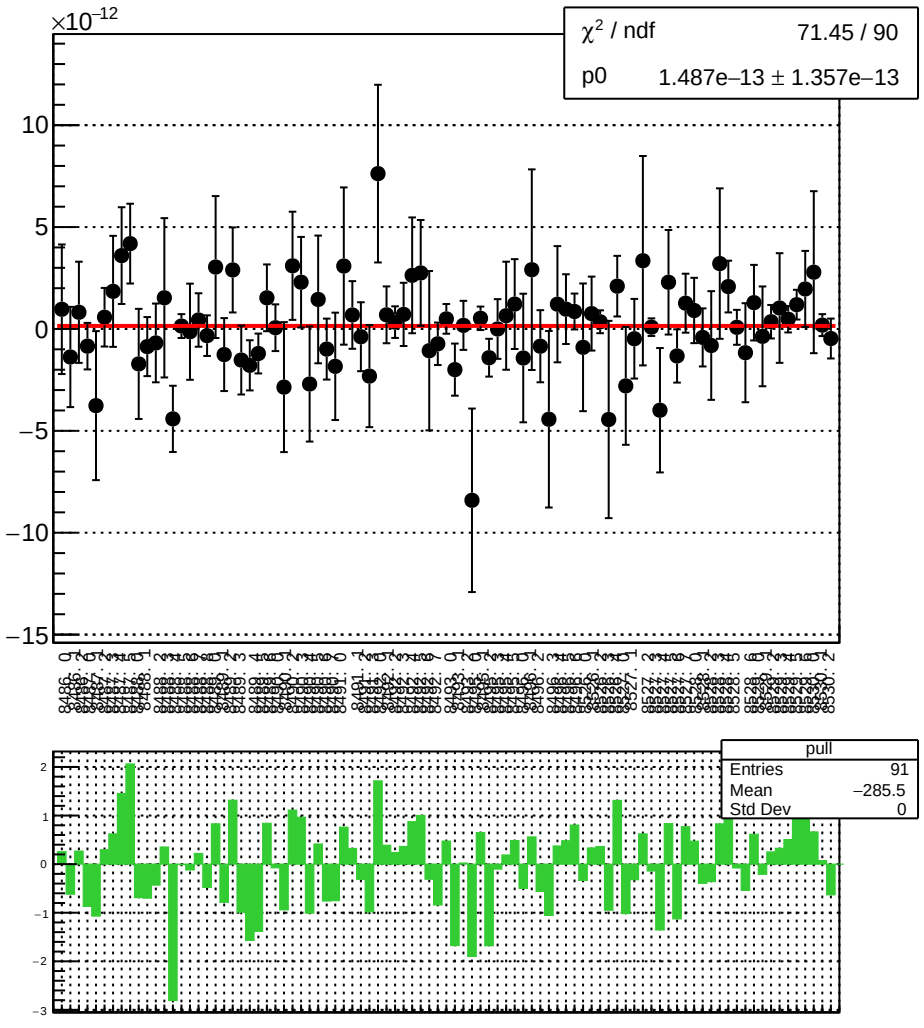

pull1D
Entries 91
Mean −0.03895
Std Dev 0.8971

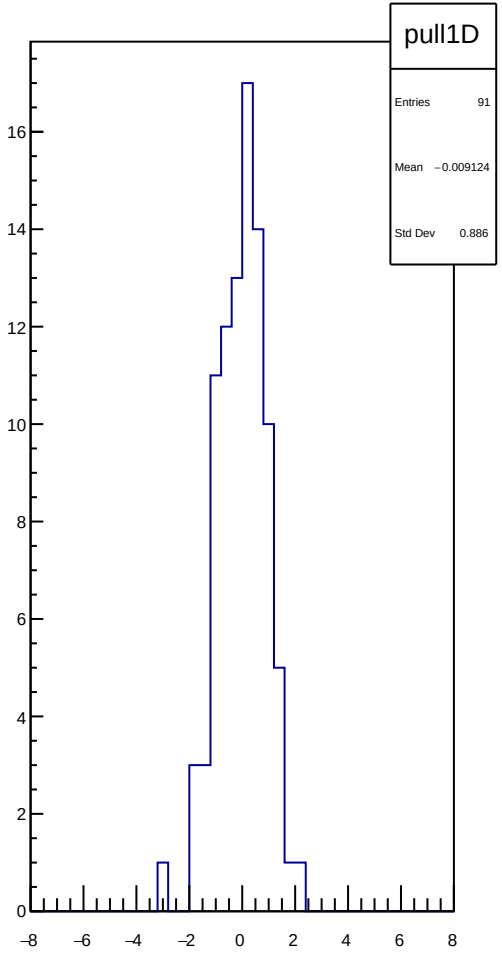

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.057e+04 / 90
p0 62.6 ± 0.04861
110
100
90
80
70
60
50
40

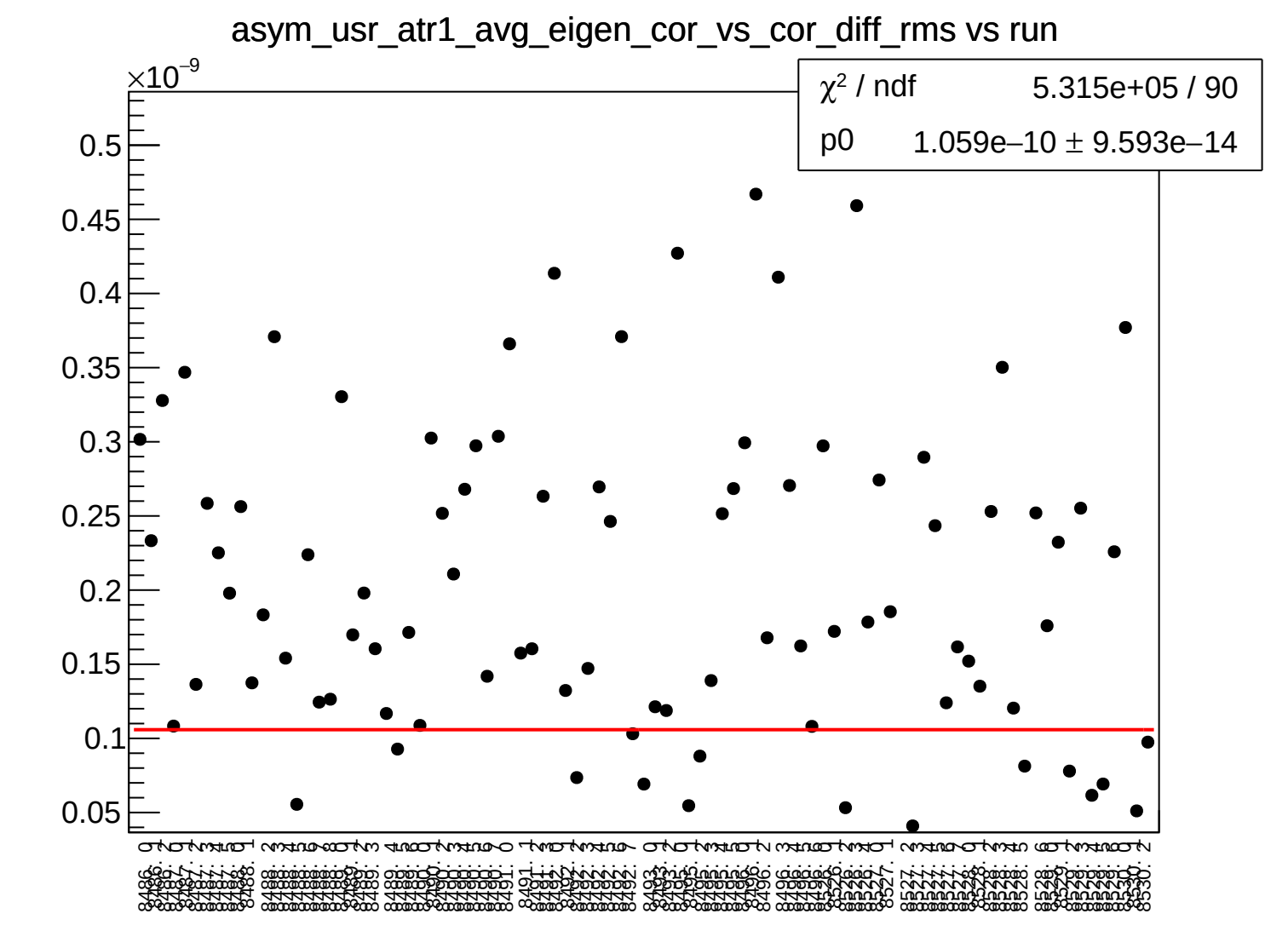

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.37 / 90
p0 0.02274 ± 0.06874
pull
Entries 91
Mean 84.41
Std Dev 39.62

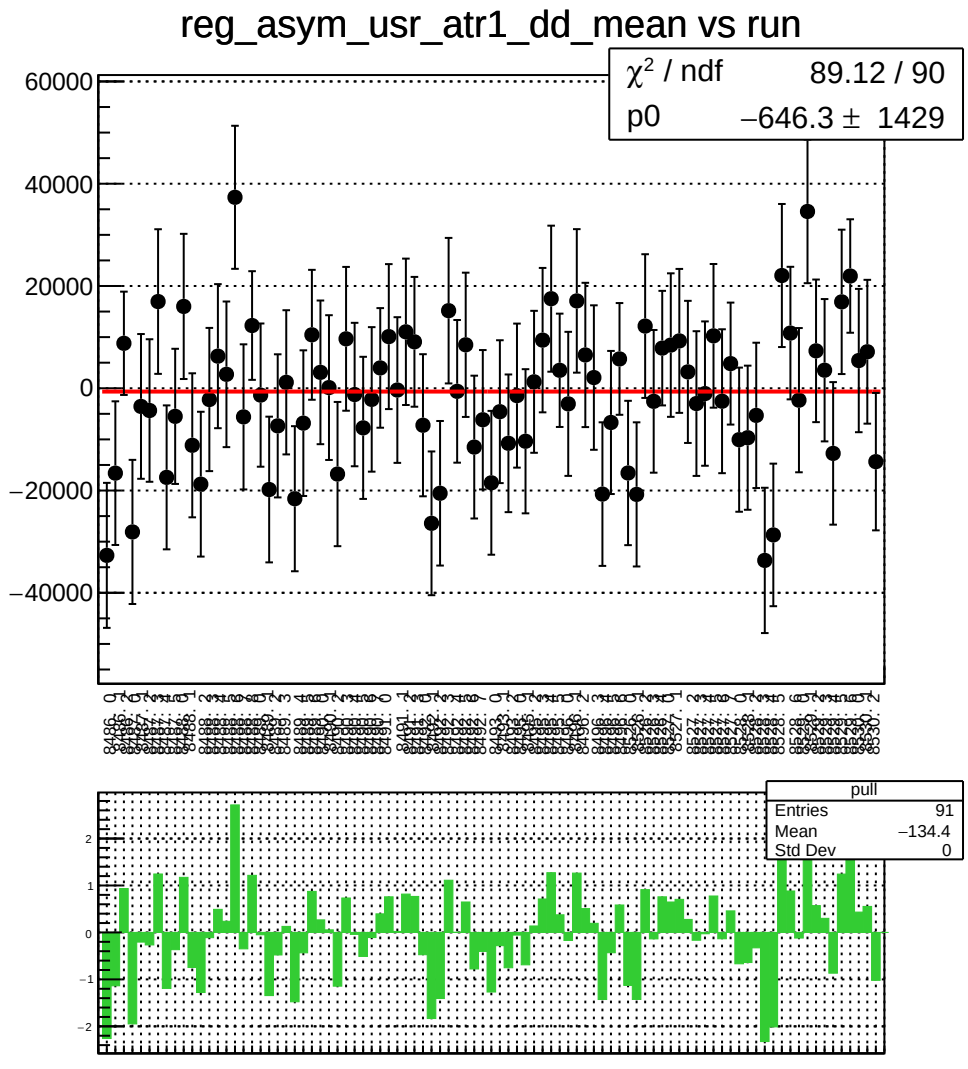

pull1D
Entries 91
Mean −0.03895
Std Dev 0.8971

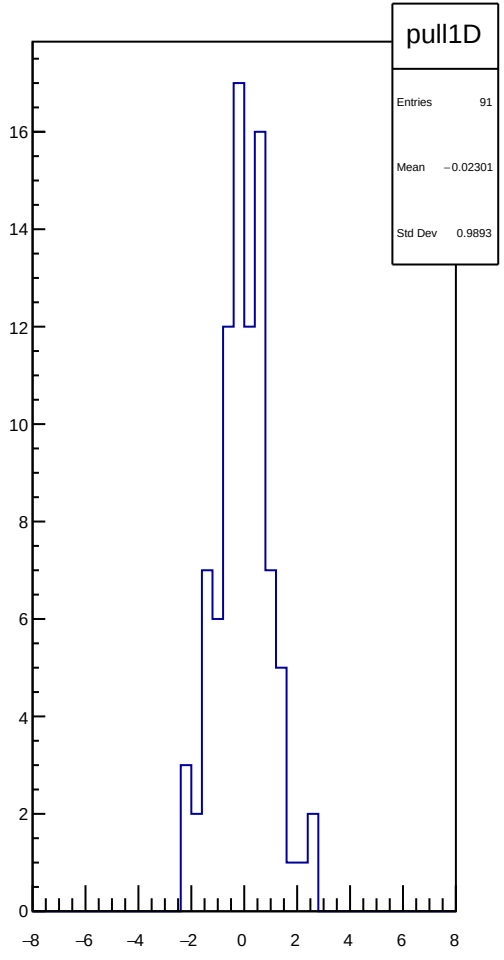

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.057e+04 / 90
p0 62.6 ± 0.04861
110
100
90
80
70
60
50
40

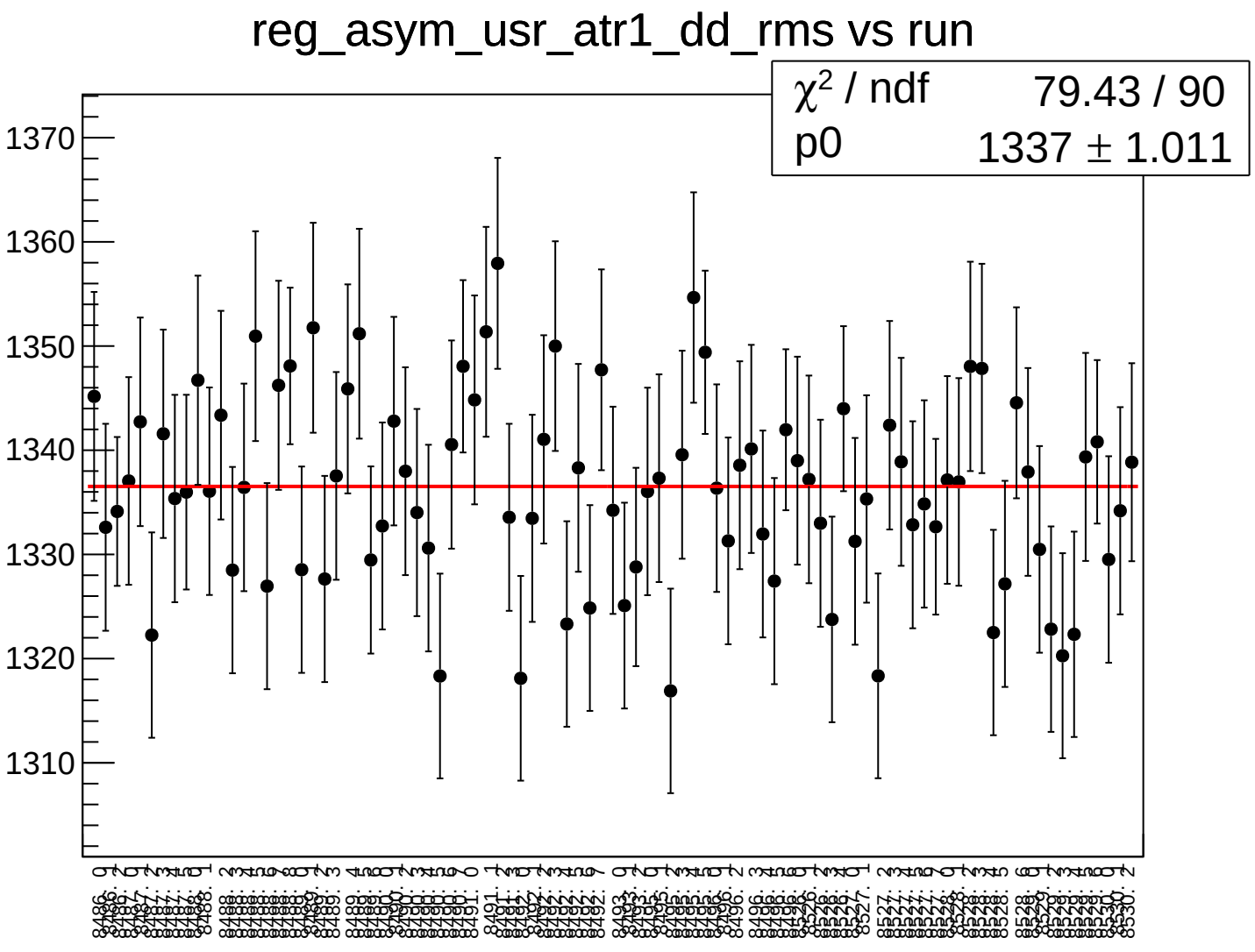

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71.45 / 90
p0 1.487e−13 ± 1.357e−13
pull
Entries 91
Mean −285.5
Std Dev 0

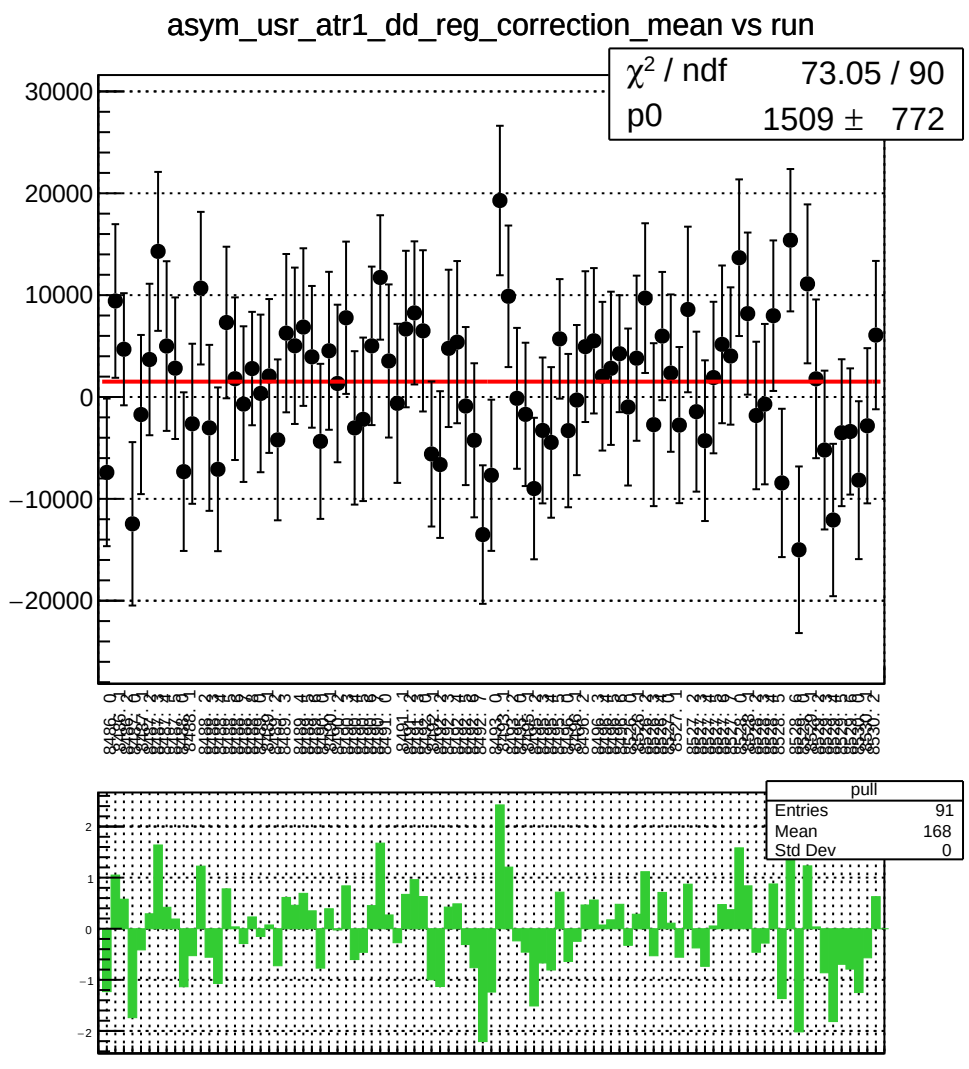

pull1D
Entries 91
Mean −0.009124
Std Dev 0.886

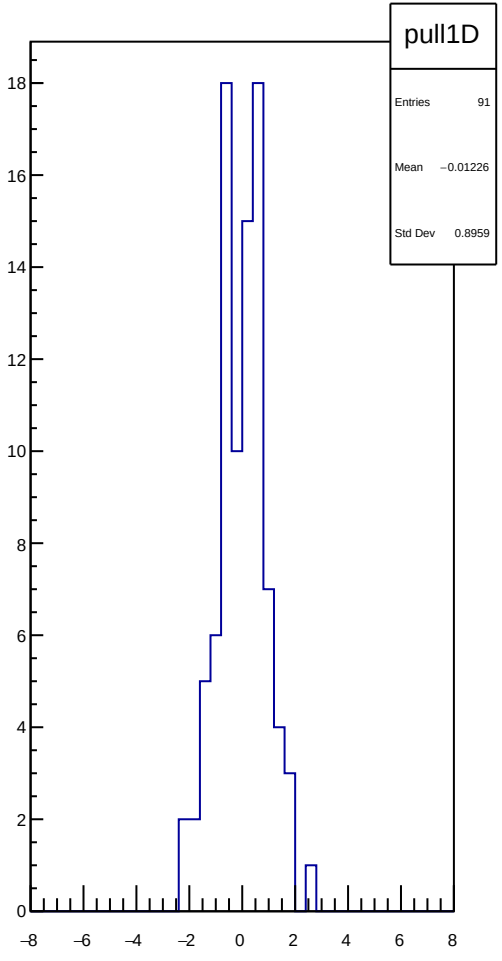

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.315e+05 / 90
p0 1.059e−10 ± 9.593e−14
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

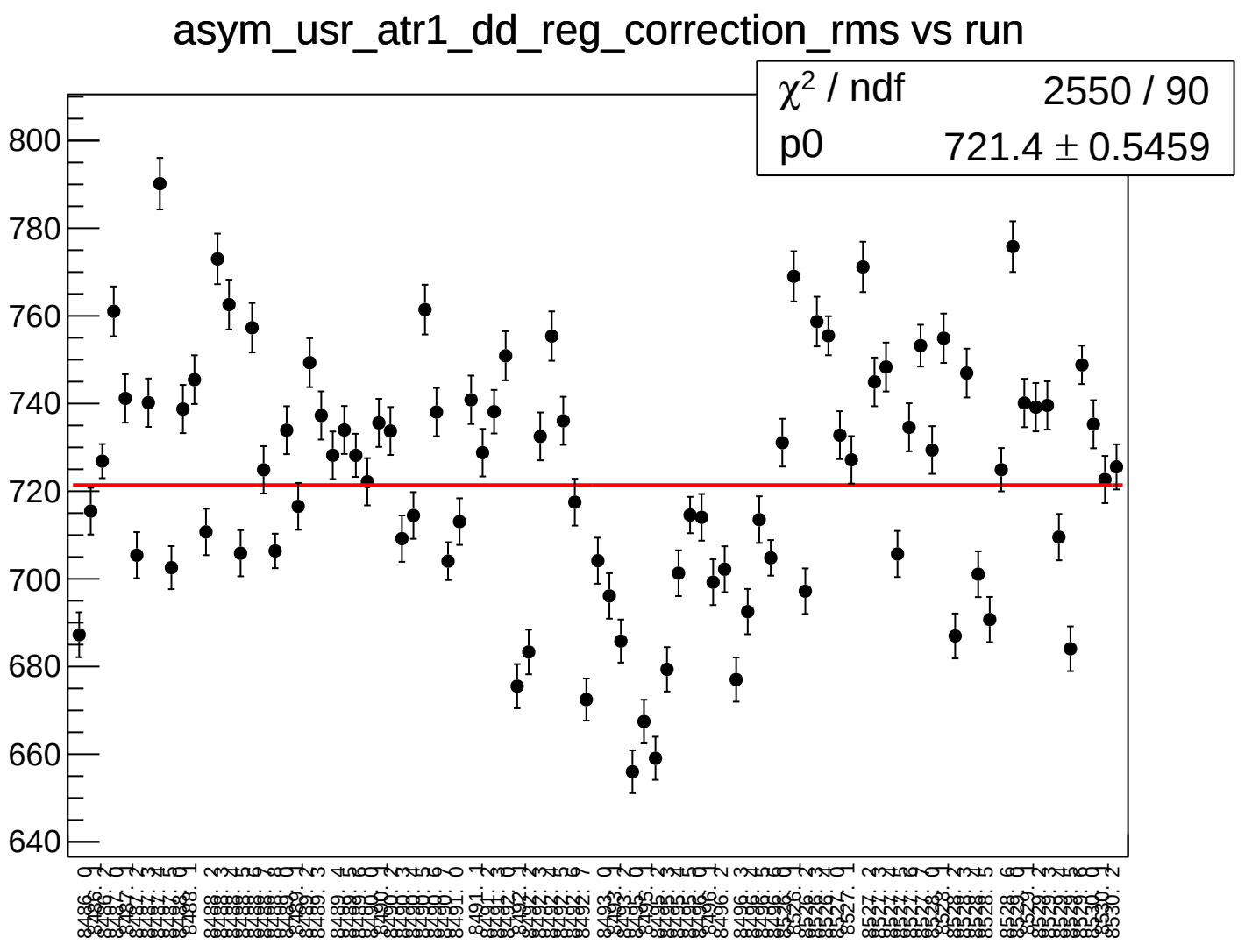

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 89.12 / 90
p0 −646.3 ± 1429
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −134.4
Std Dev 0
2
1
0
−1
−2

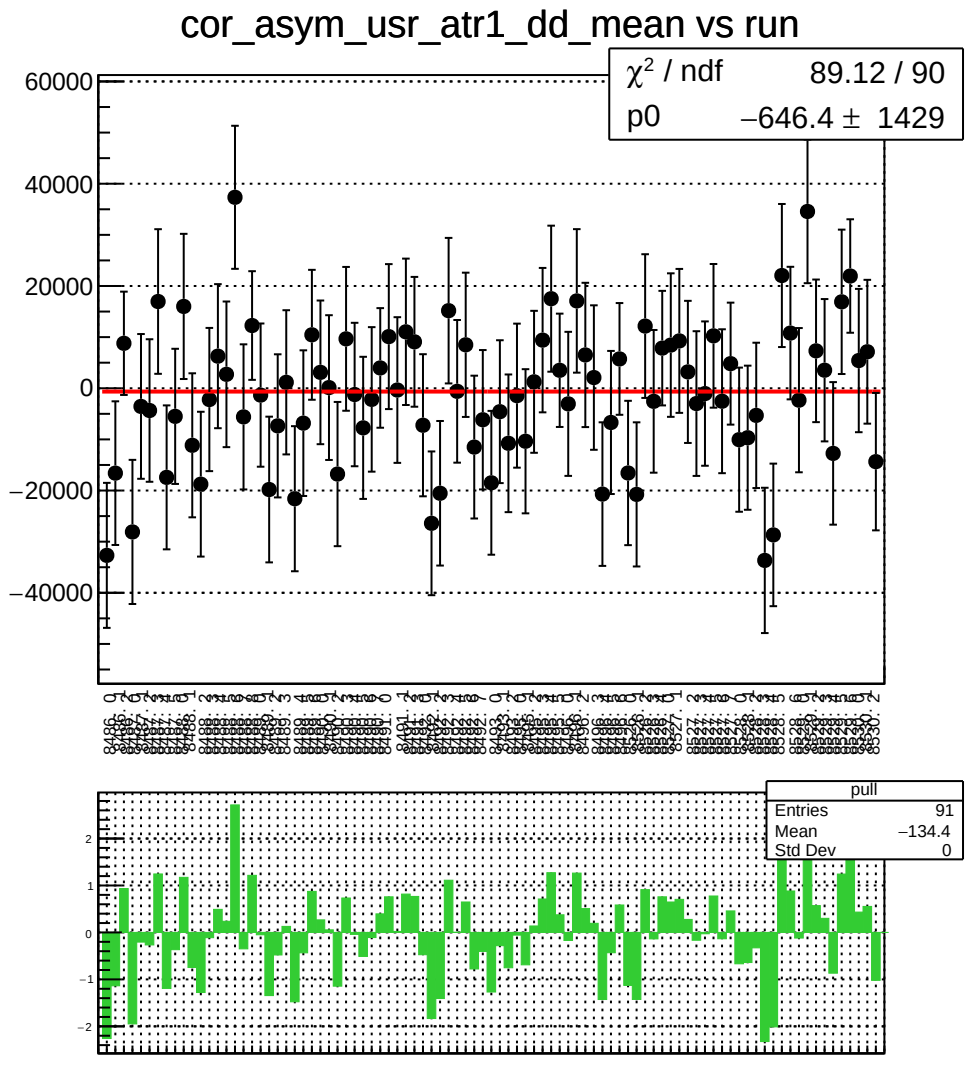

pull1D
Entries 91
Mean −0.02301
Std Dev 0.9893
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

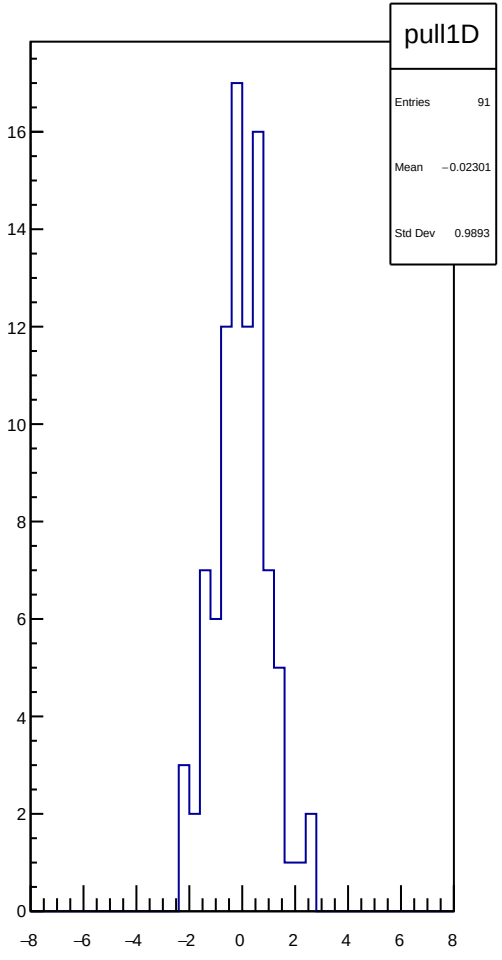

reg_asym_usr_atr1_dd_rms vs run
χ² / ndf 79.43 / 90
p0 1337 ± 1.011
1370
1360
1350
1340
1330
1320
1310

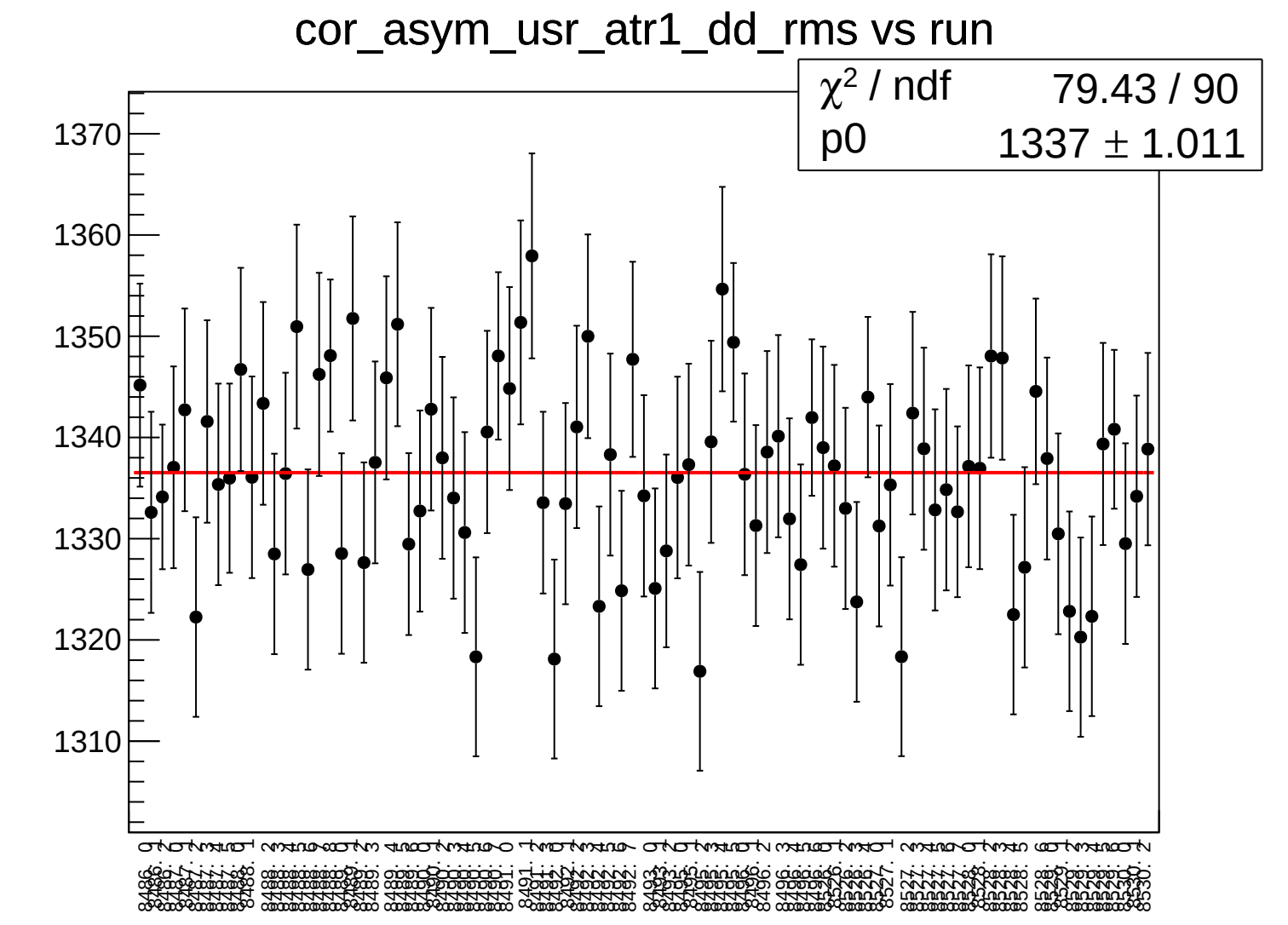

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 73.05 / 90
p0 1509 ± 772
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 168
Std Dev 0
2
1
0
−1
−2

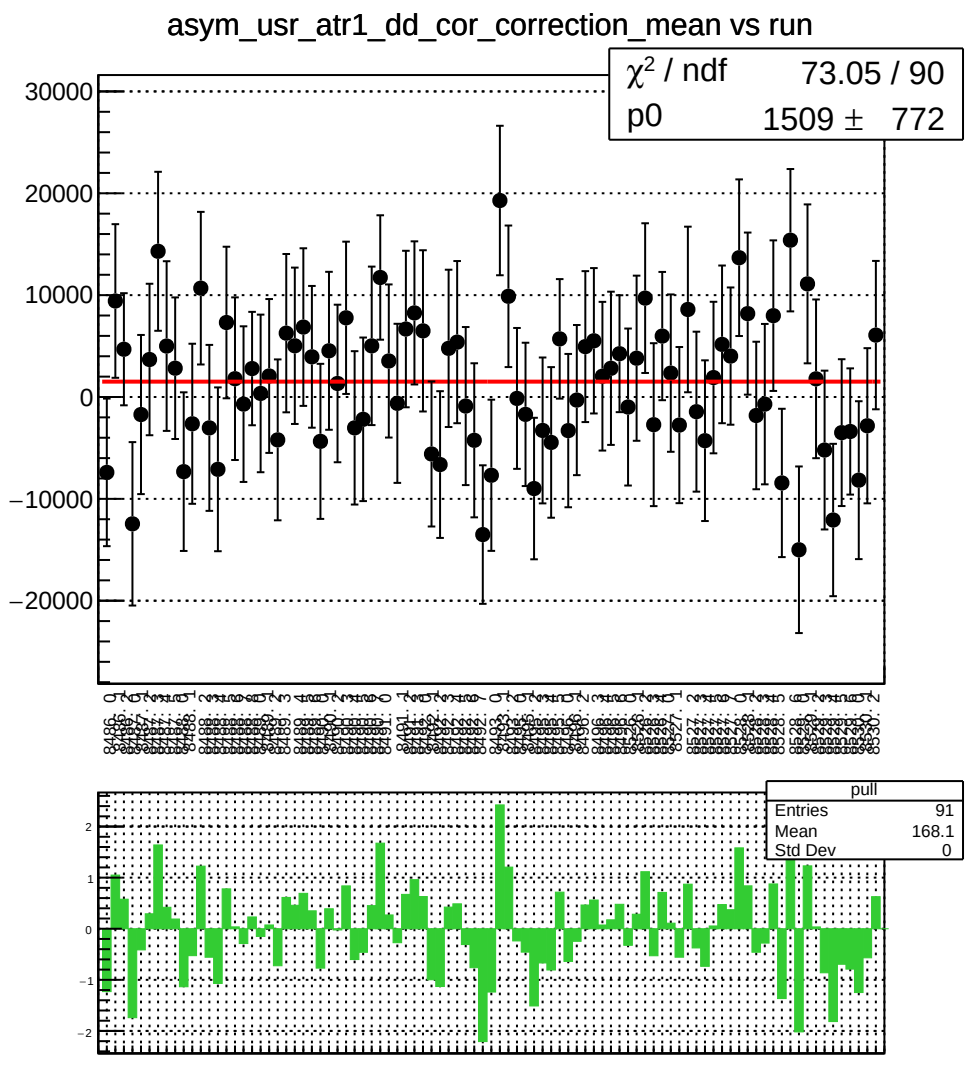

pull1D
Entries 91
Mean −0.01226
Std Dev 0.8959
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

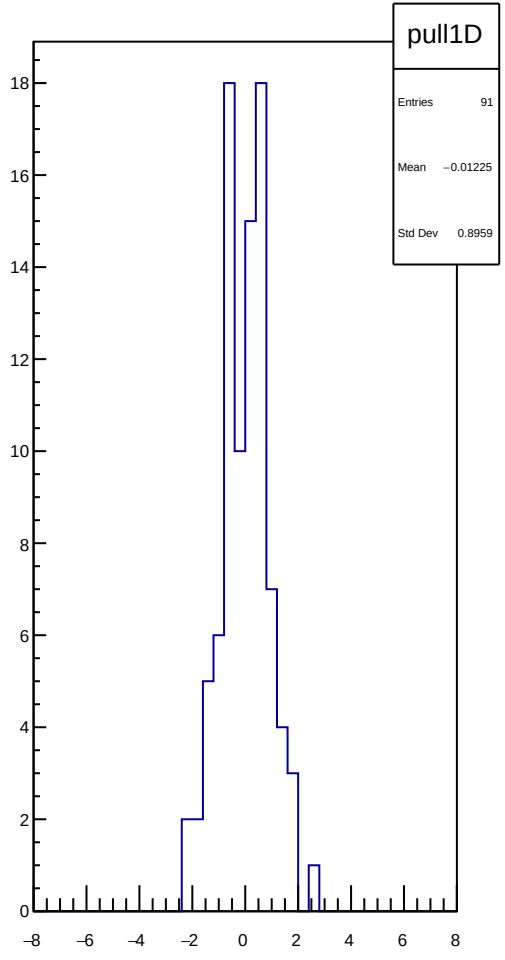

asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 2550 / 90
p0 721.4 ± 0.5459
800
780
760
740
720
700
680
660
640

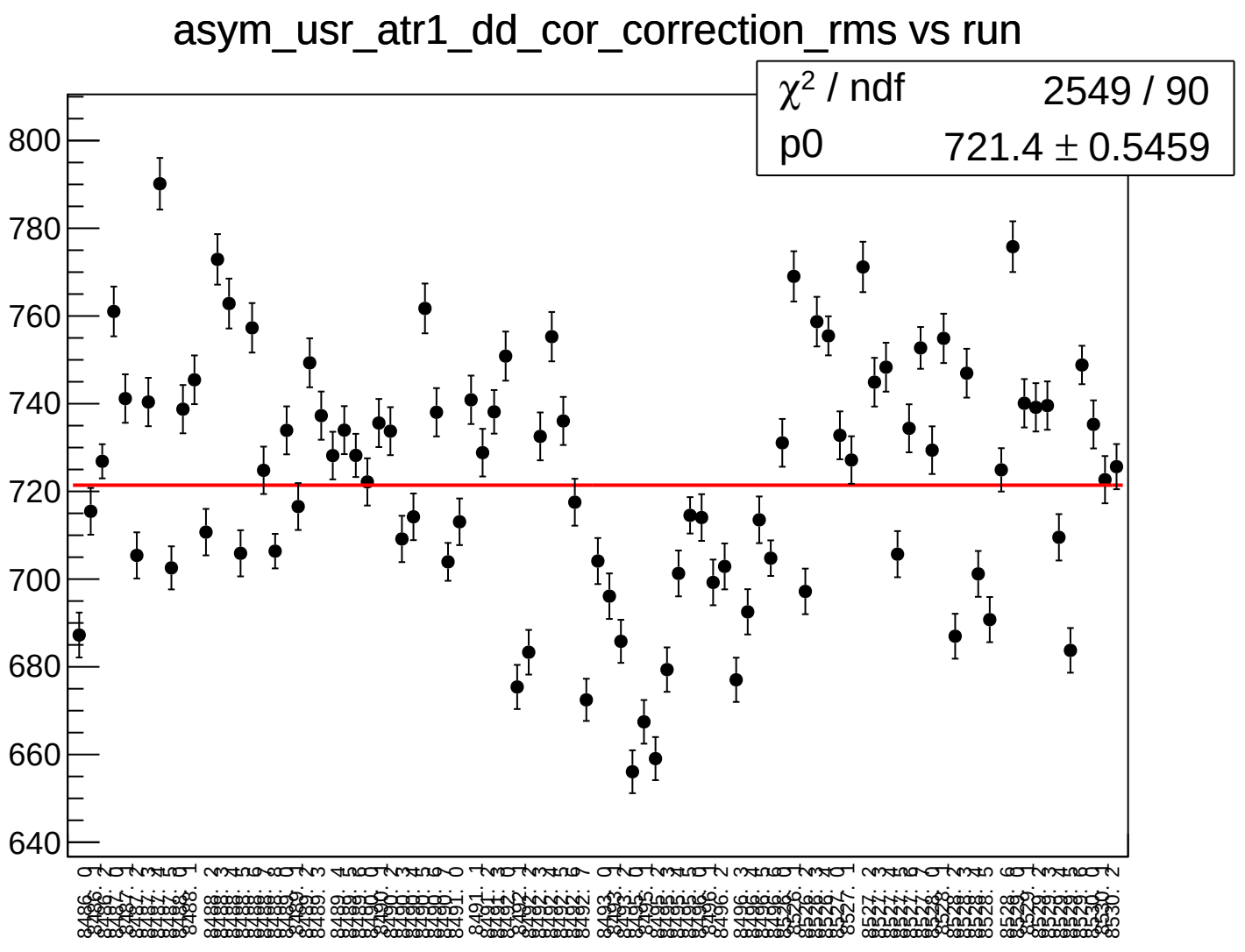

cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 89.12 / 90
p0 −646.4 ± 1429
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −134.4
Std Dev 0
2
1
0
−1
−2

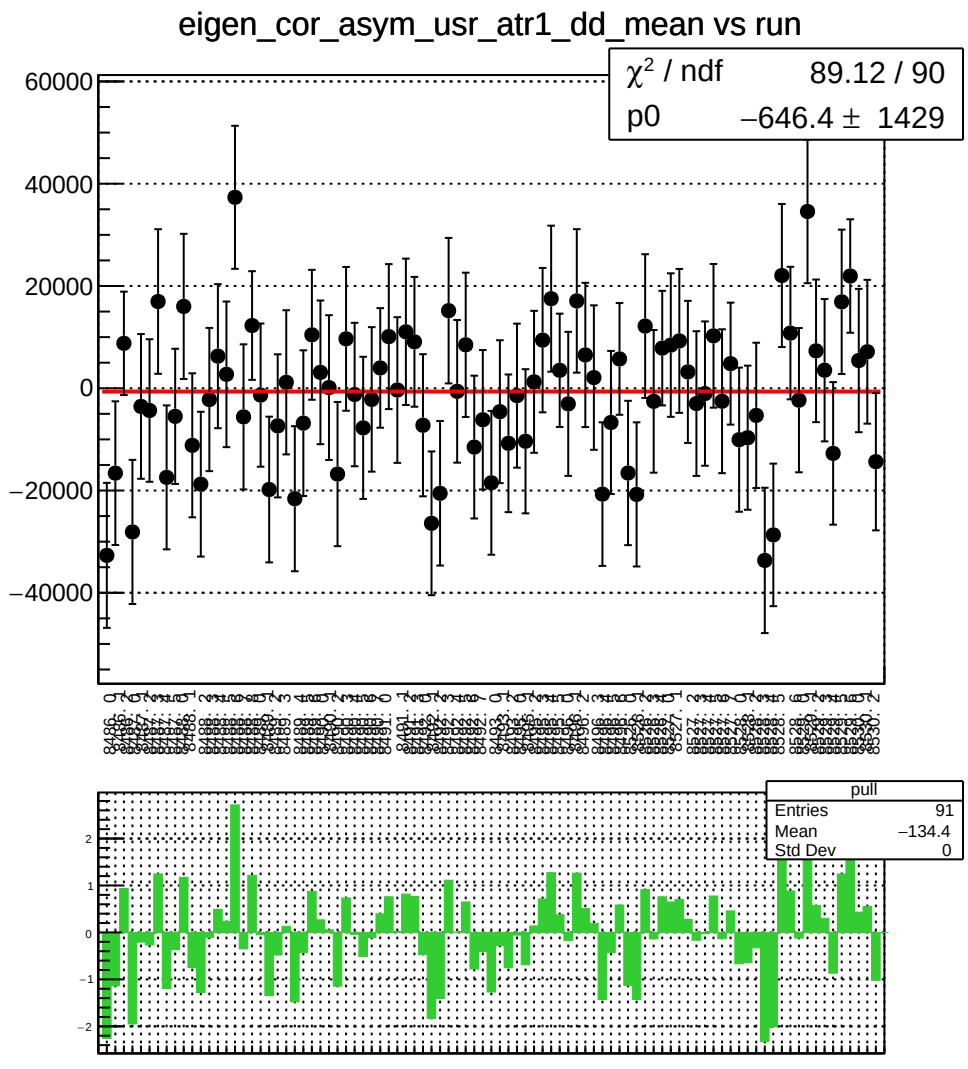

pull1D
Entries 91
Mean −0.02301
Std Dev 0.9893
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

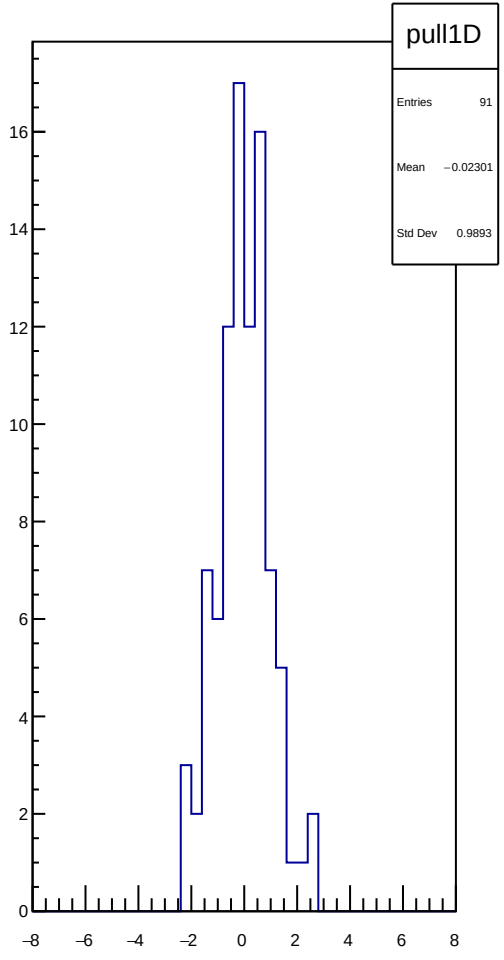

cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 79.43 / 90
p0 1337 ± 1.011
1370
1360
1350
1340
1330
1320
1310

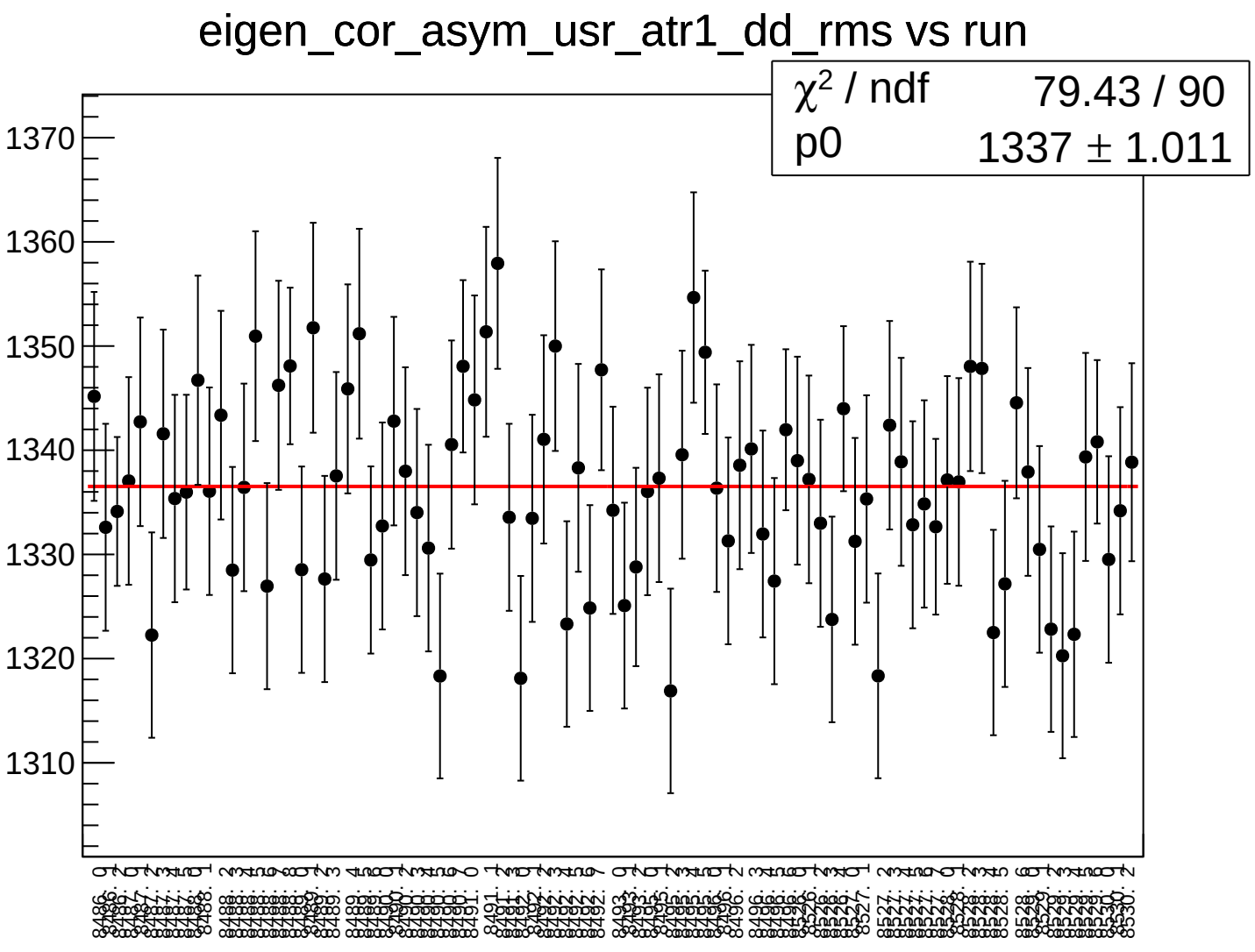

asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 73.05 / 90
p0 1509 ± 772
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 168.1
Std Dev 0
2
1
0
−1
−2

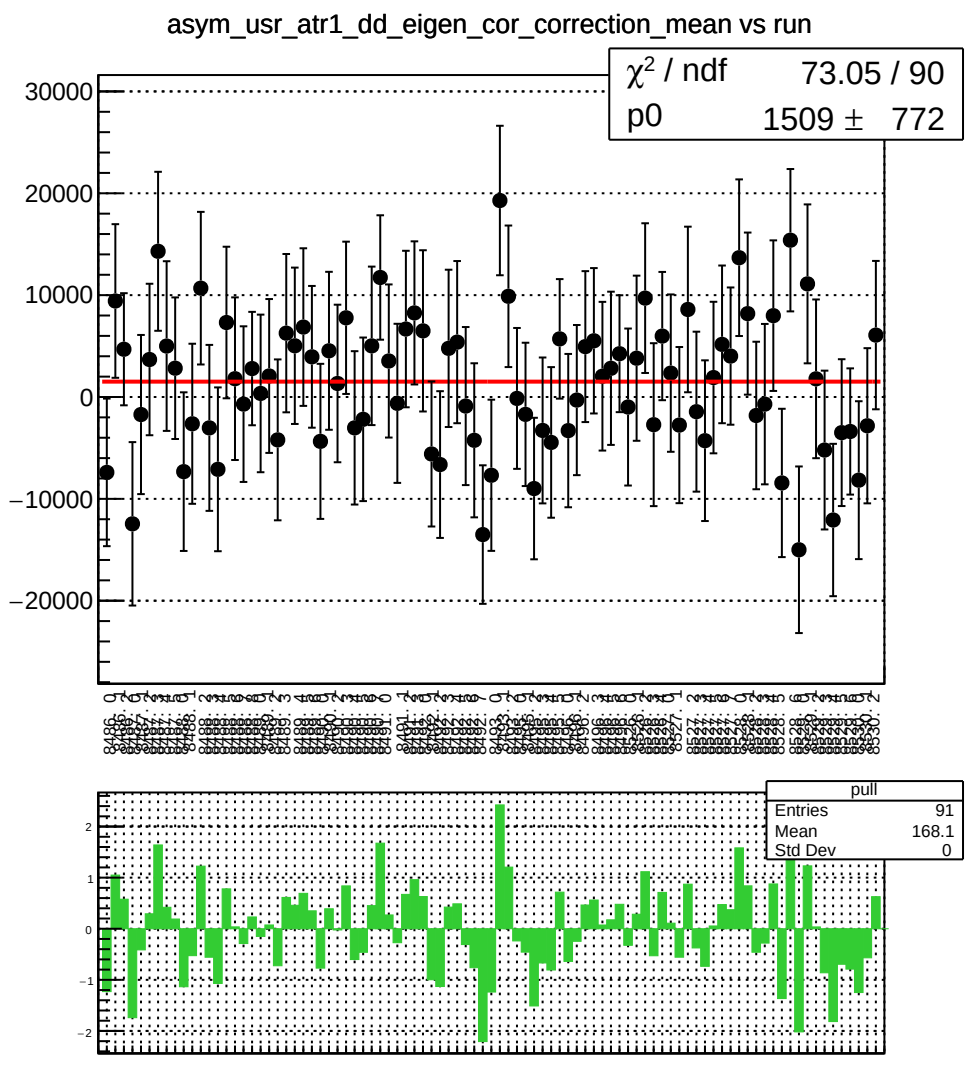

pull1D
Entries 91
Mean −0.01225
Std Dev 0.8959
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

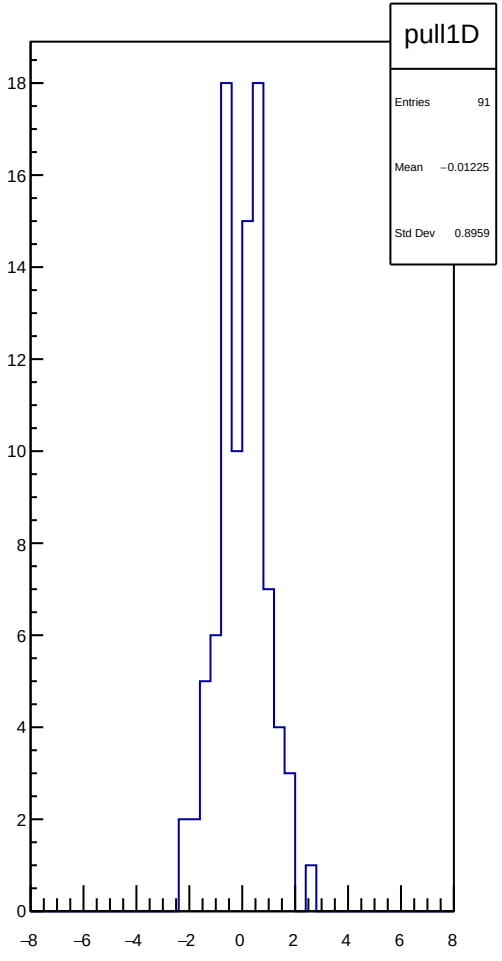

asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 2549 / 90
p0 721.4 ± 0.5459
800
780
760
740
720
700
680
660
640

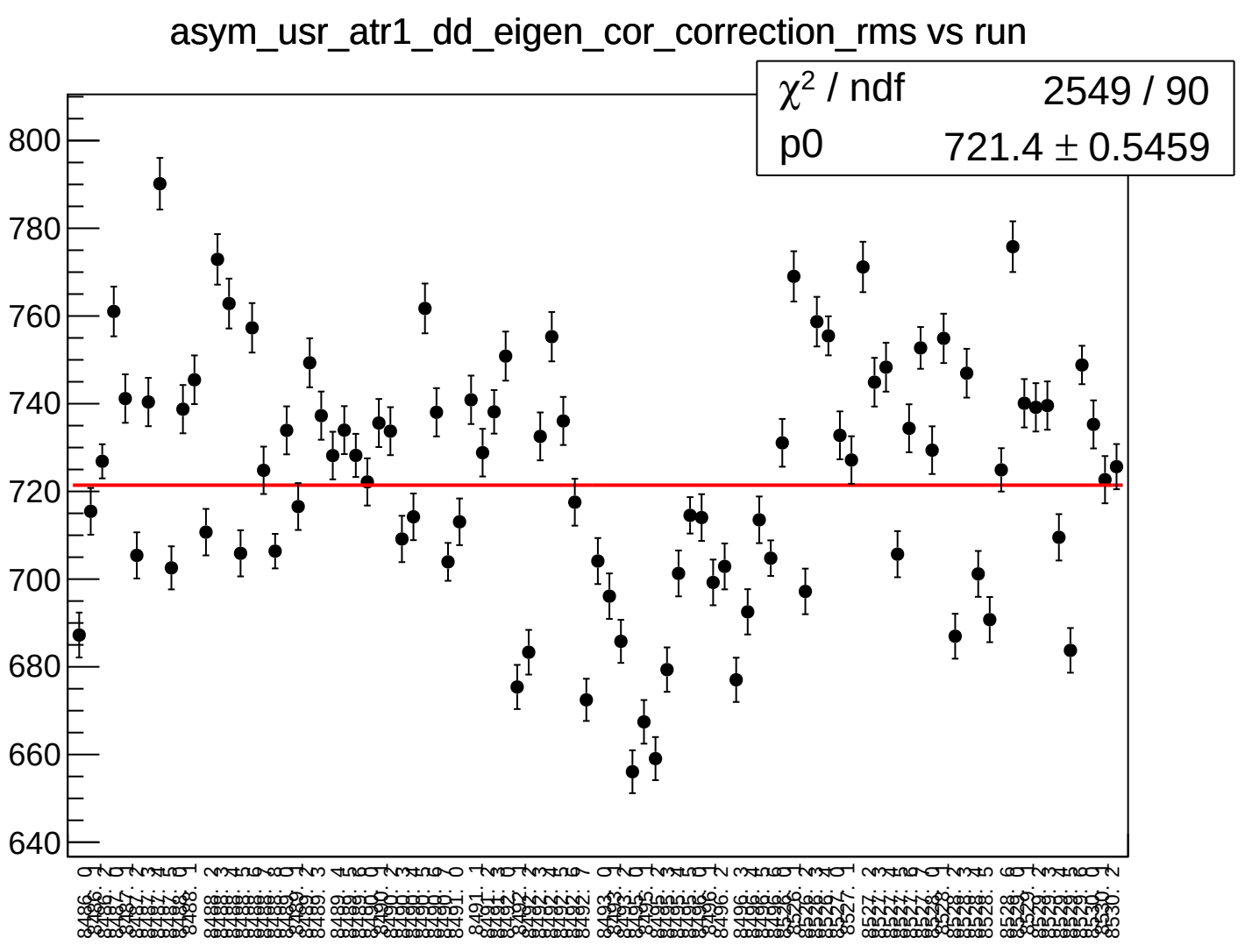

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 89.12 / 90
p0 −646.4 ± 1429
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −134.4
Std Dev 0
2
1
0
−1
−2

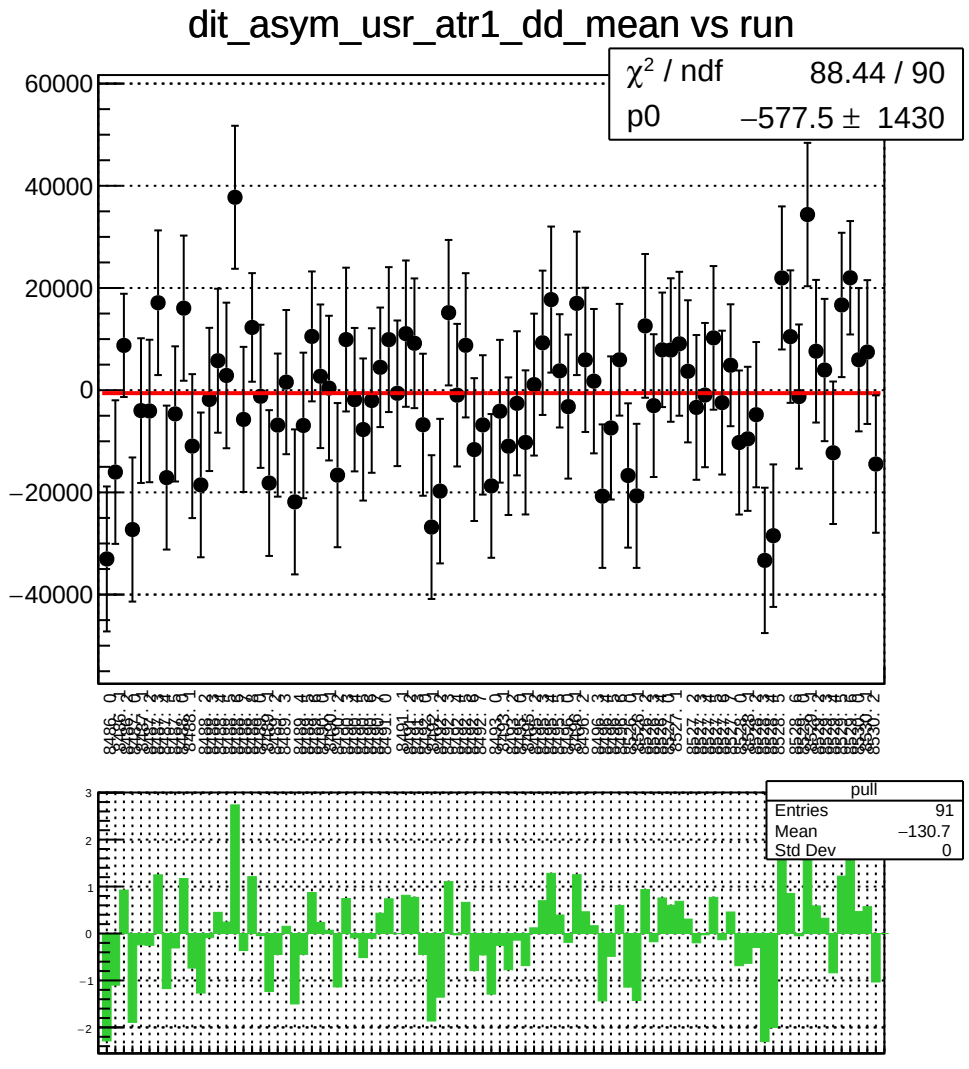

pull1D
Entries 91
Mean −0.02301
Std Dev 0.9893
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

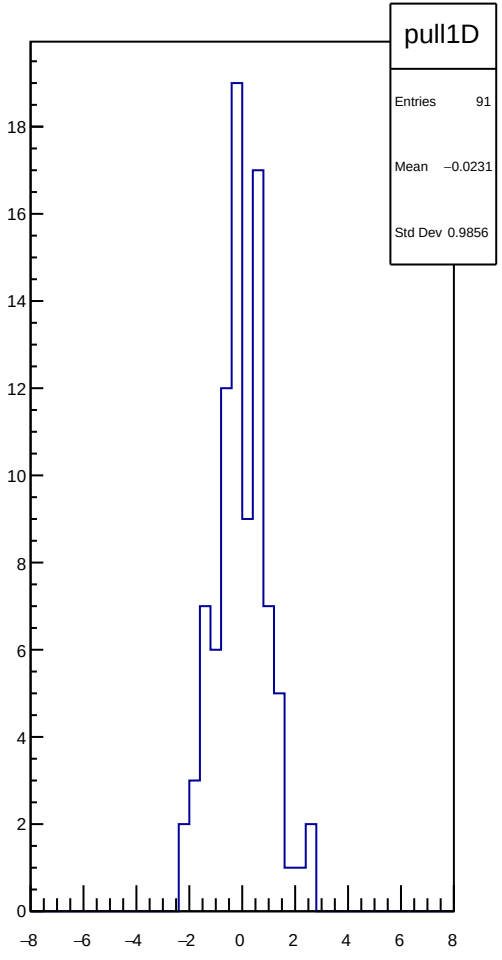

eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 79.43 / 90
p0 1337 ± 1.011
1370
1360
1350
1340
1330
1320
1310

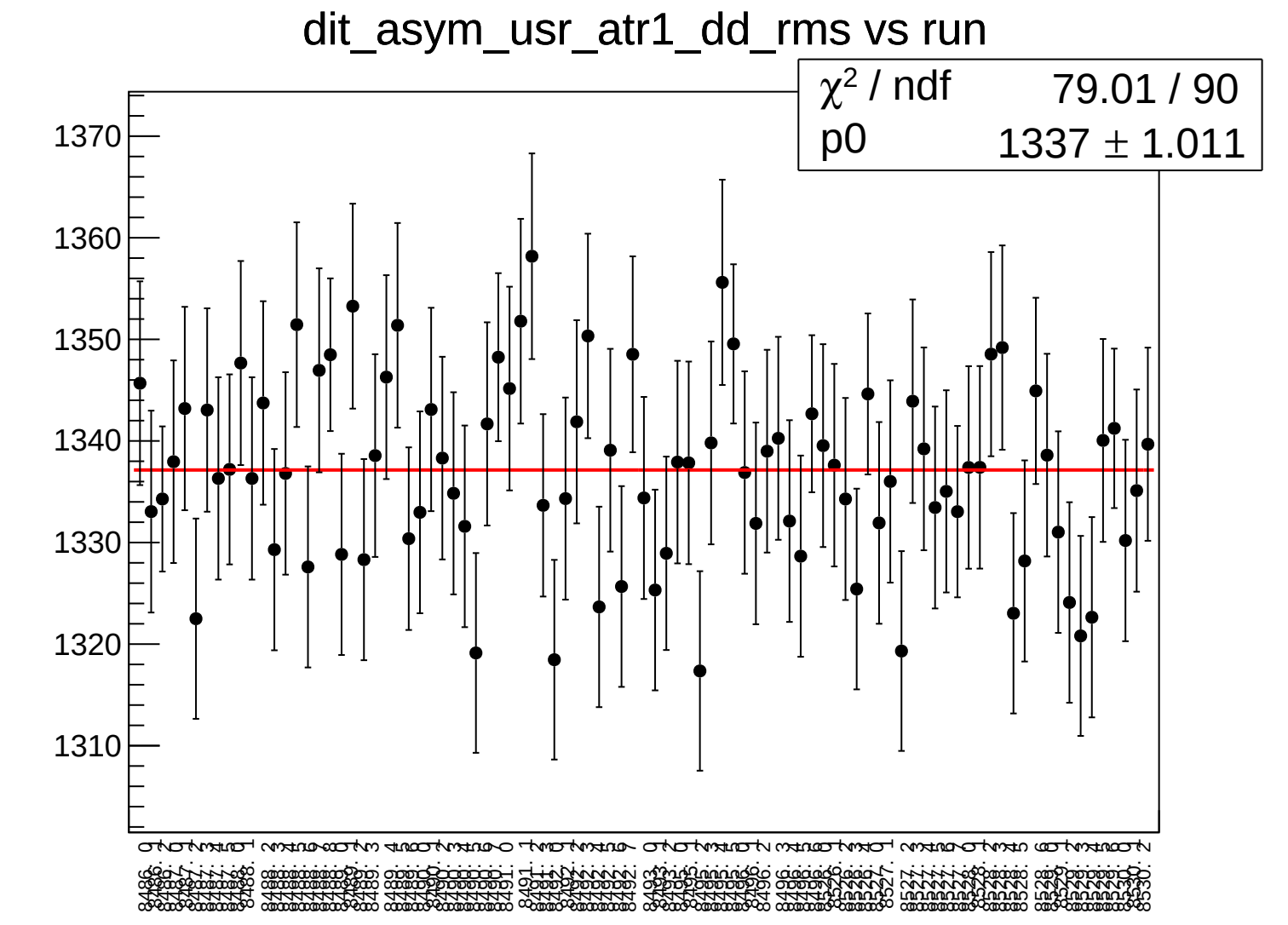

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 73.05 / 90
p0 1509 ± 772
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 168.1
Std Dev 0
2
1
0
−1
−2

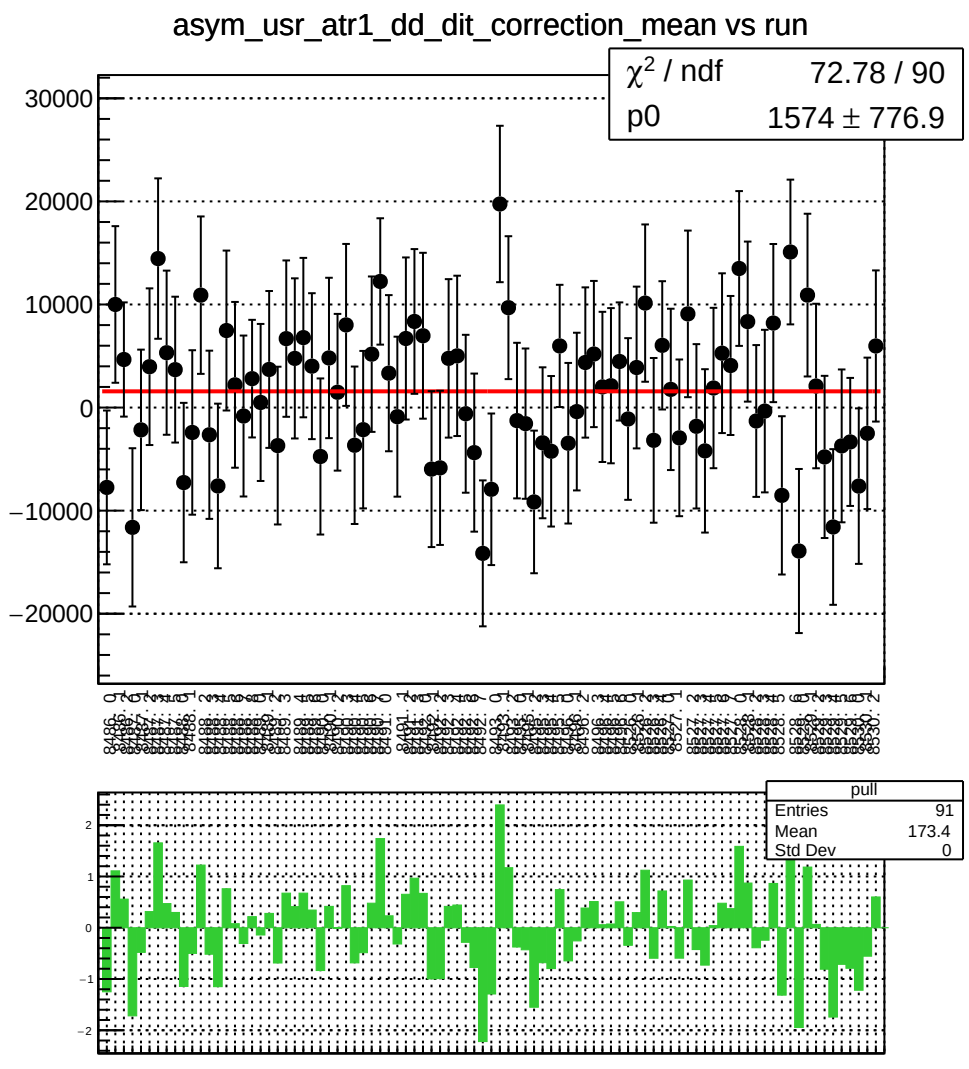

pull1D
Entries 91
Mean −0.01225
Std Dev 0.8959
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

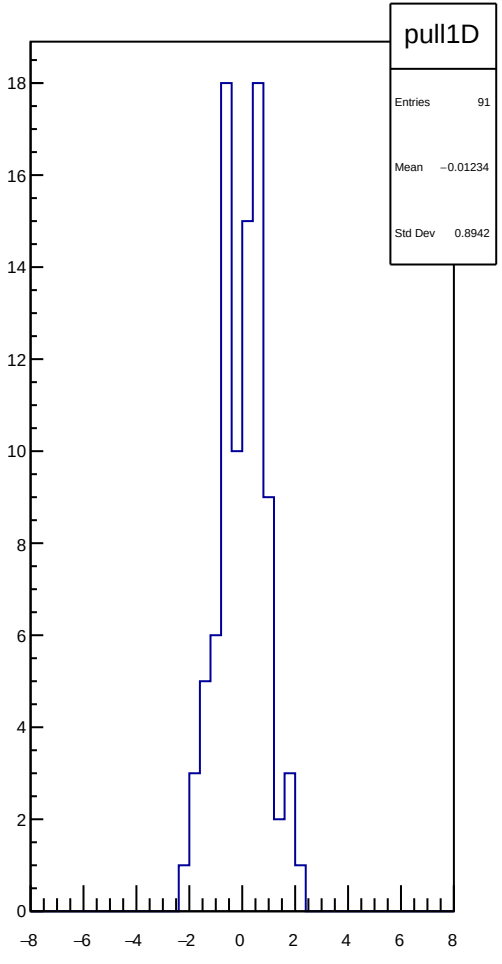

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 2549 / 90
p0 721.4 ± 0.5459
800
780
760
740
720
700
680
660
640

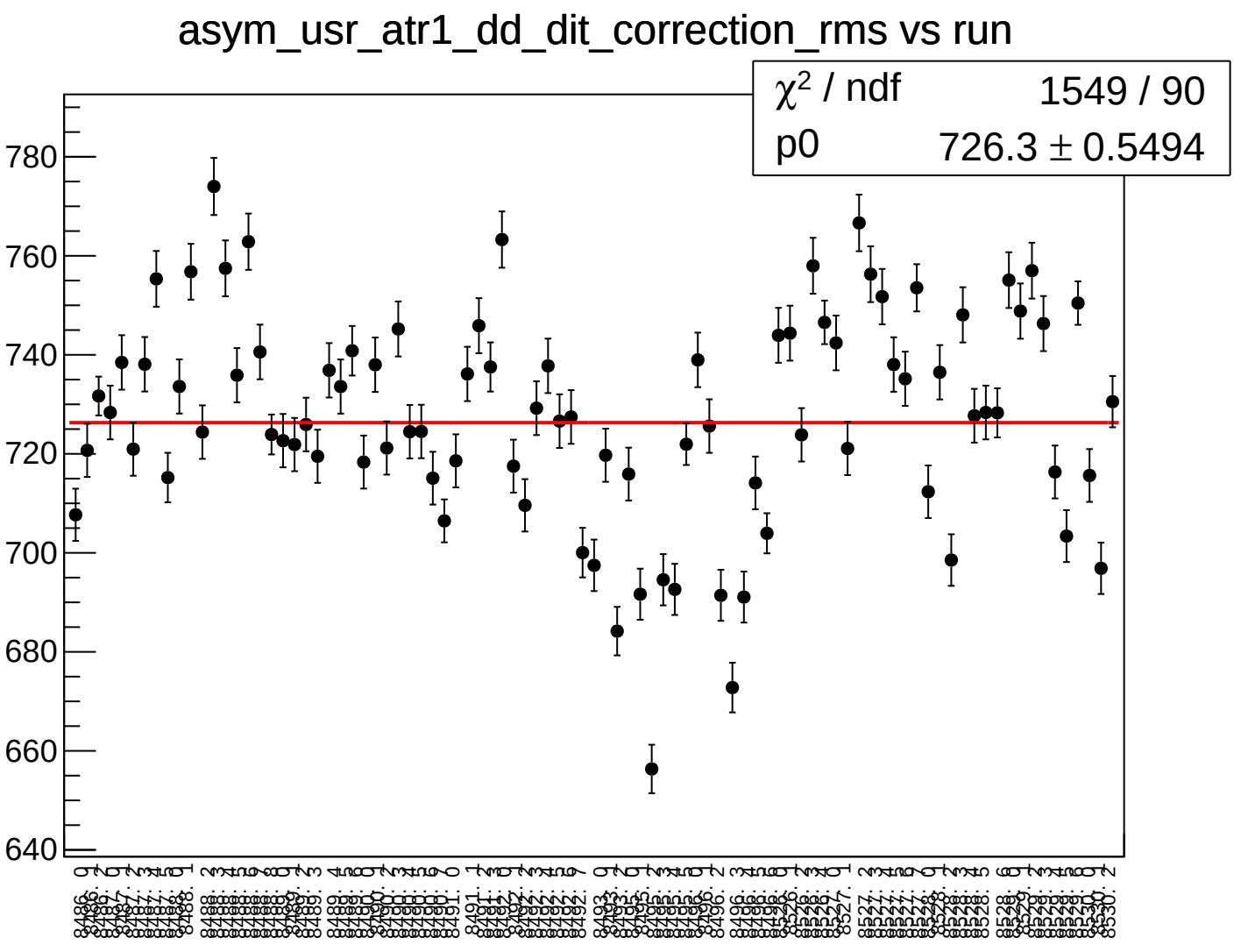

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 88.44 / 90
p0 −577.5 ± 1430
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −130.7
Std Dev 0
3
2
1
0
−1
−2

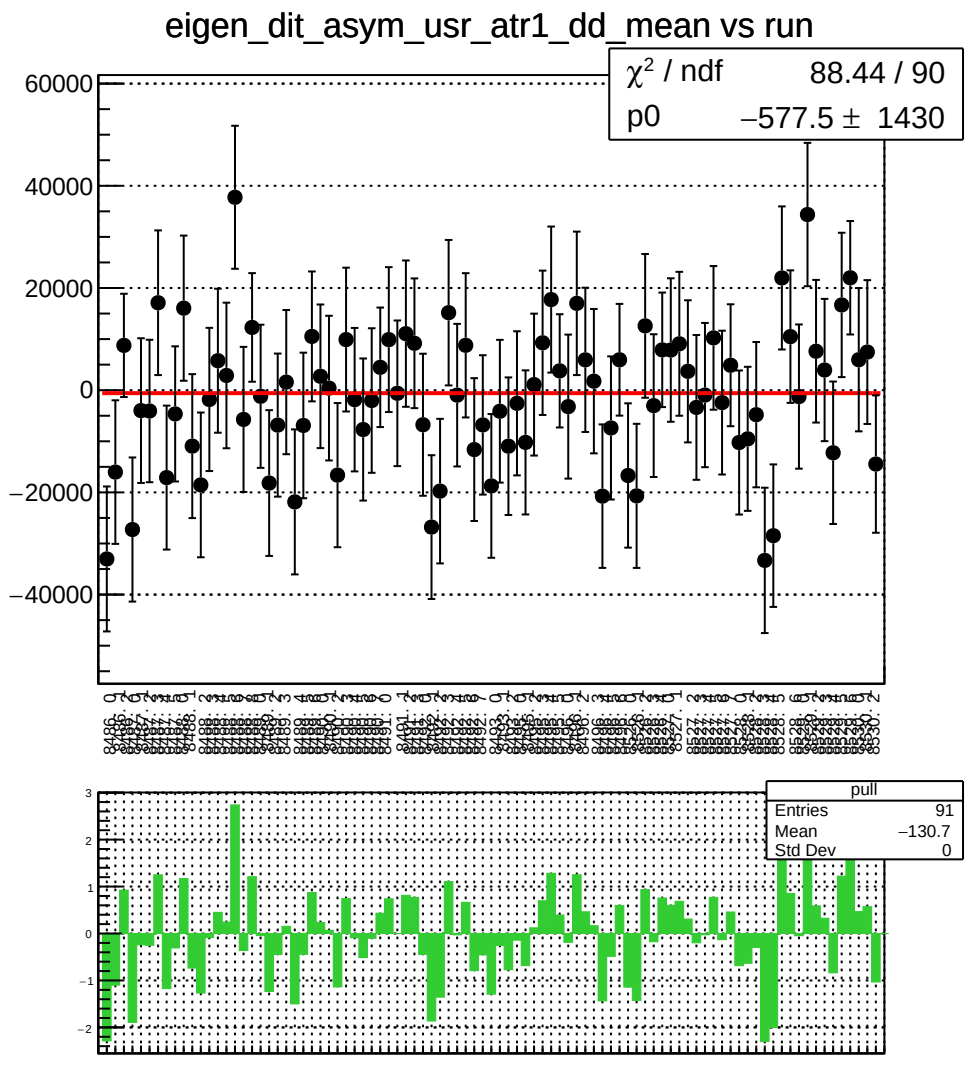

pull1D
Entries 91
Mean −0.0231
Std Dev 0.9856
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

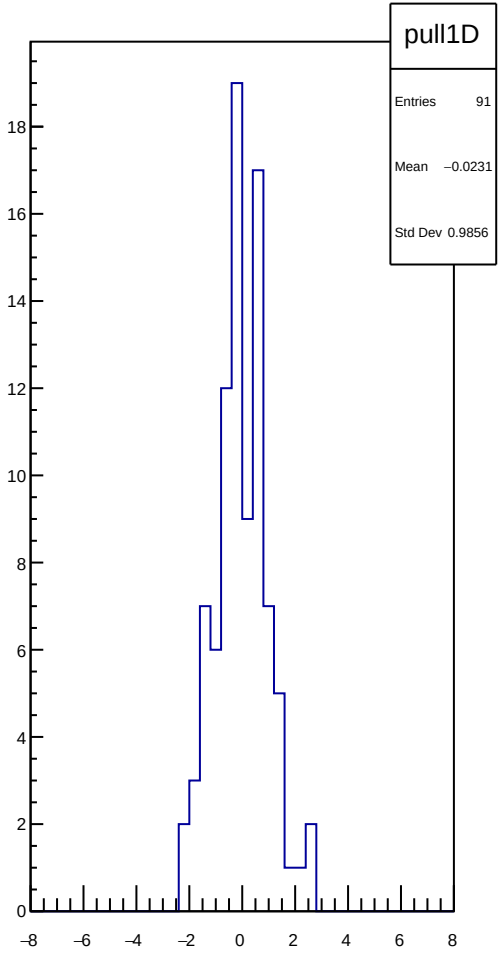

dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 79.01 / 90
p0 1337 ± 1.011
1370
1360
1350
1340
1330
1320
1310

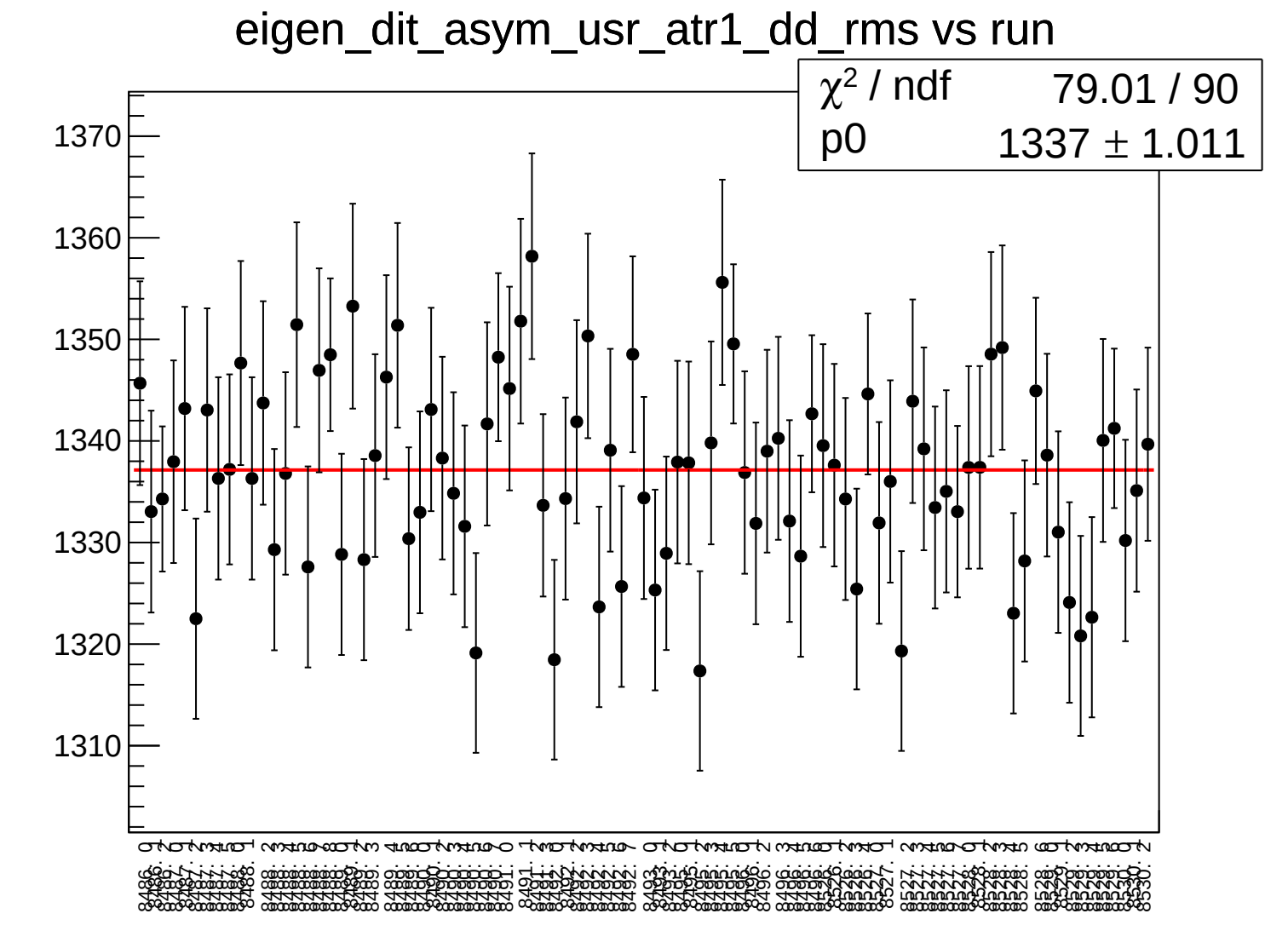

asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 72.78 / 90
p0 1574 ± 776.9
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 173.4
Std Dev 0
2
1
0
−1
−2

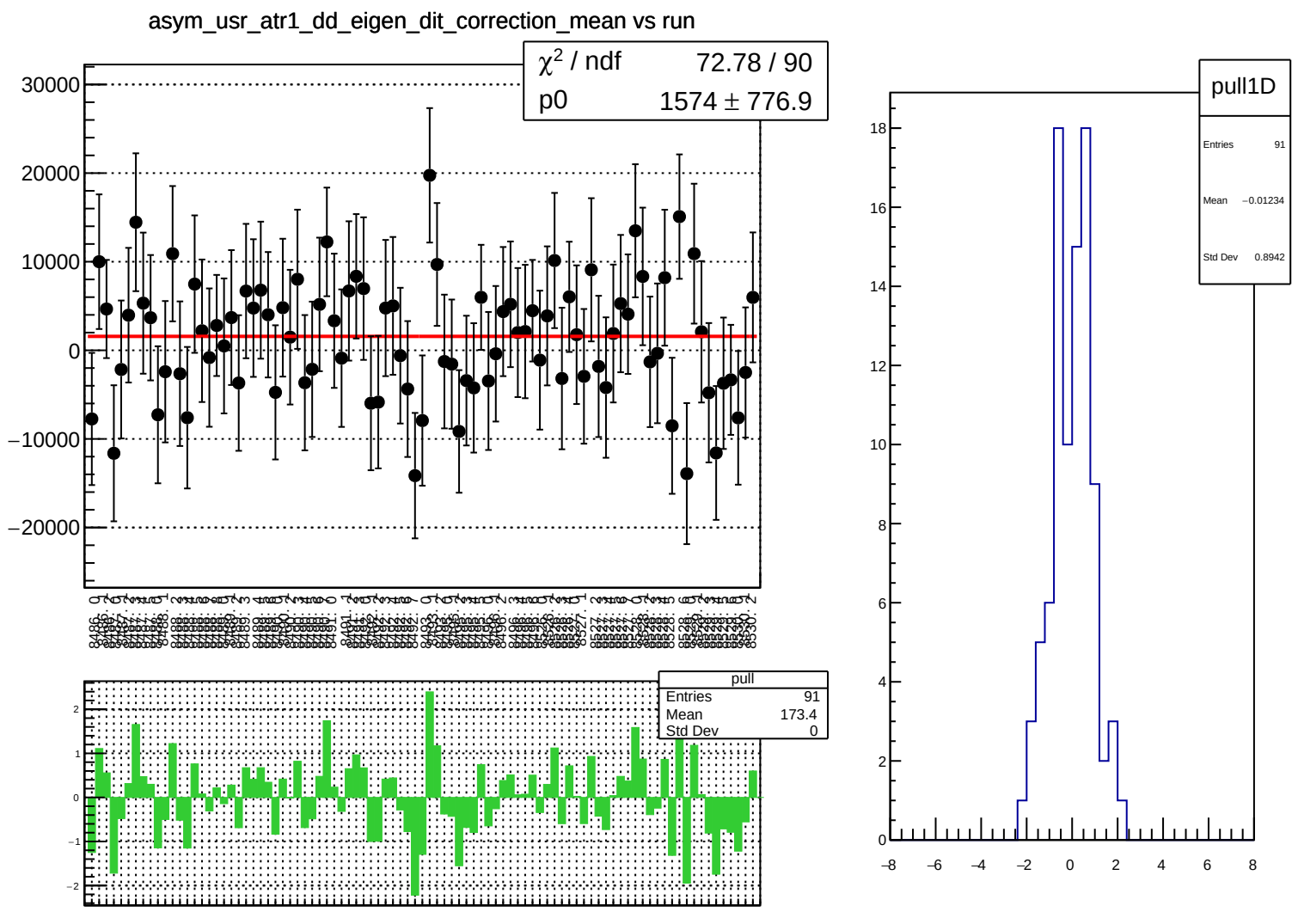

pull1D
Entries 91
Mean −0.01234
Std Dev 0.8942
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

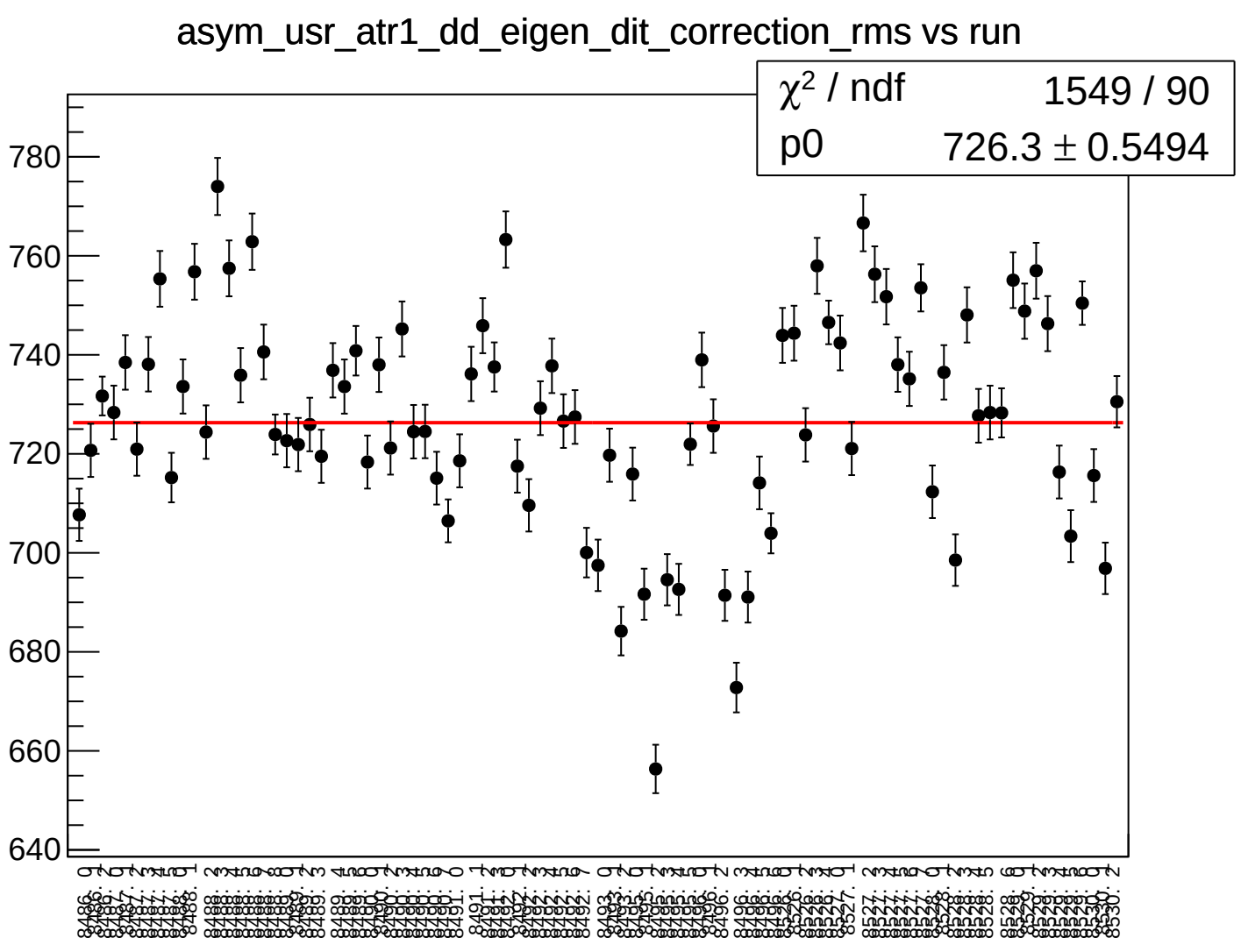

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 1549 / 90
p0 726.3 ± 0.5494
780
760
740
720
700
680
660
640

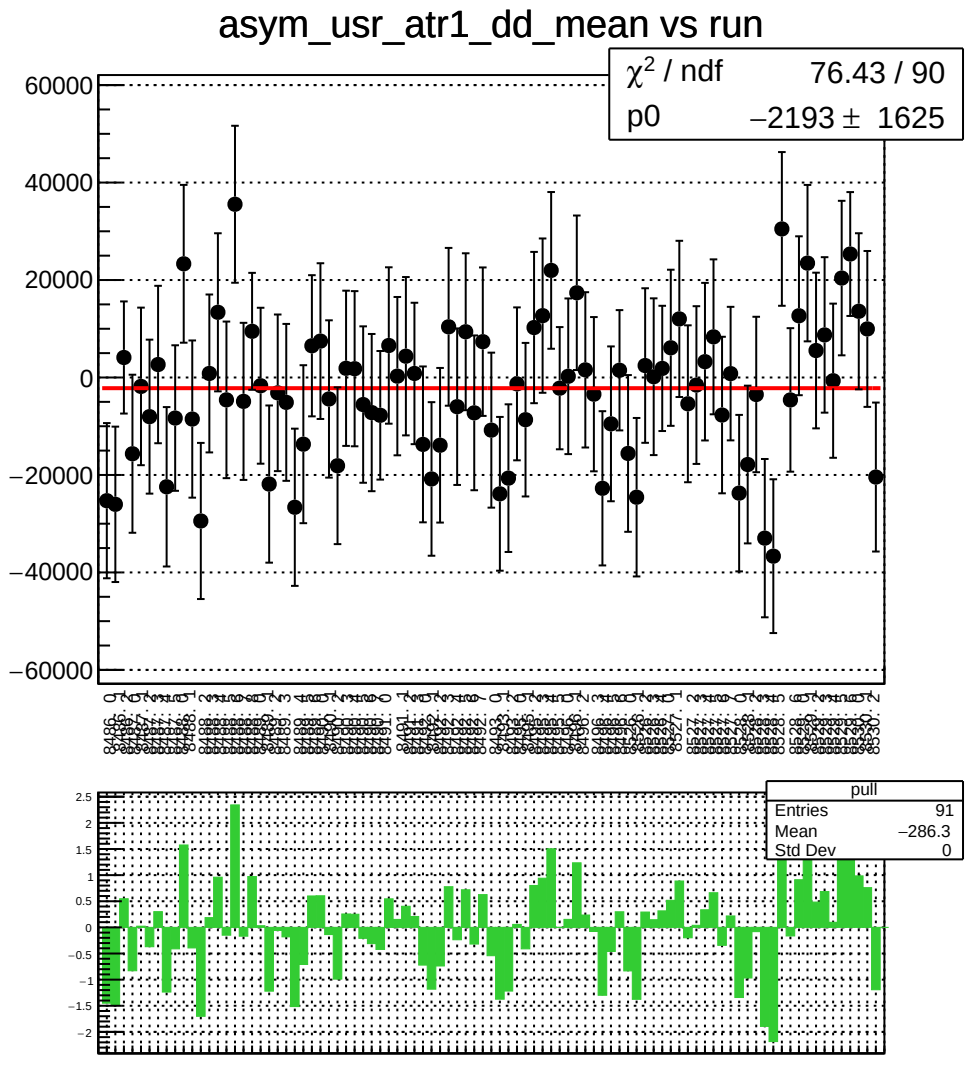

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 88.44 / 90
p0 −577.5 ± 1430
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −130.7
Std Dev 0
3
2
1
0
−1
−2

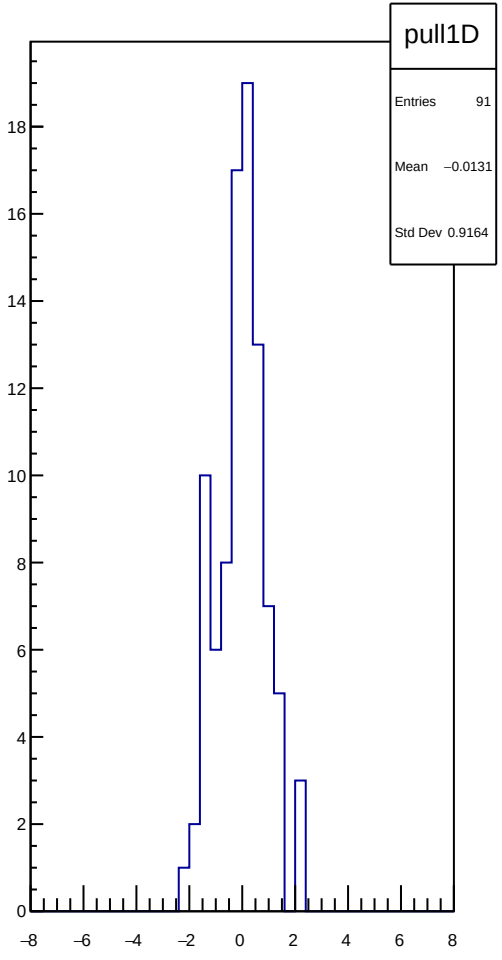

pull1D
Entries 91
Mean −0.0231
Std Dev 0.9856
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

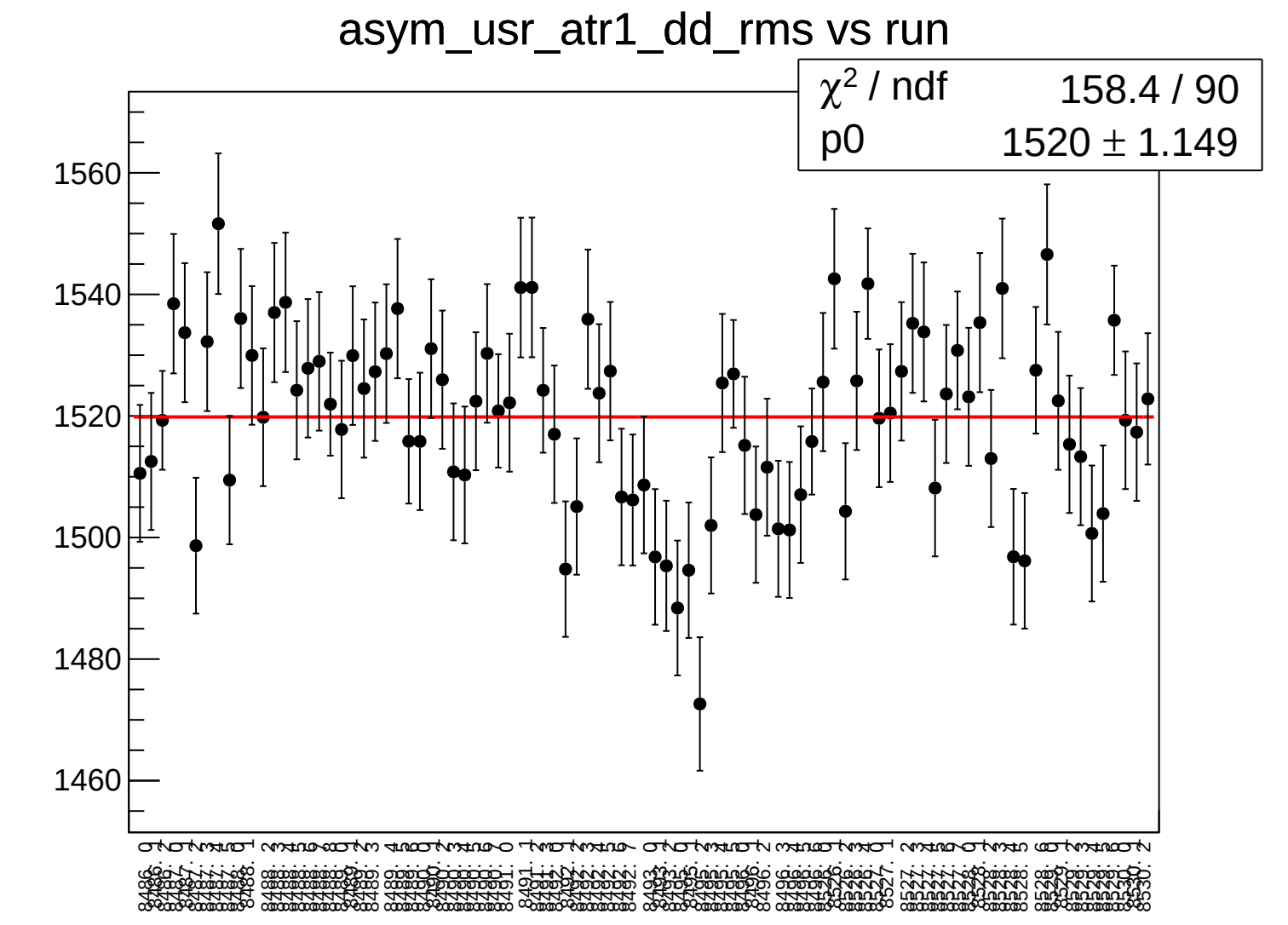

eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 79.01 / 90
p0 1337 ± 1.011
1370
1360
1350
1340
1330
1320
1310

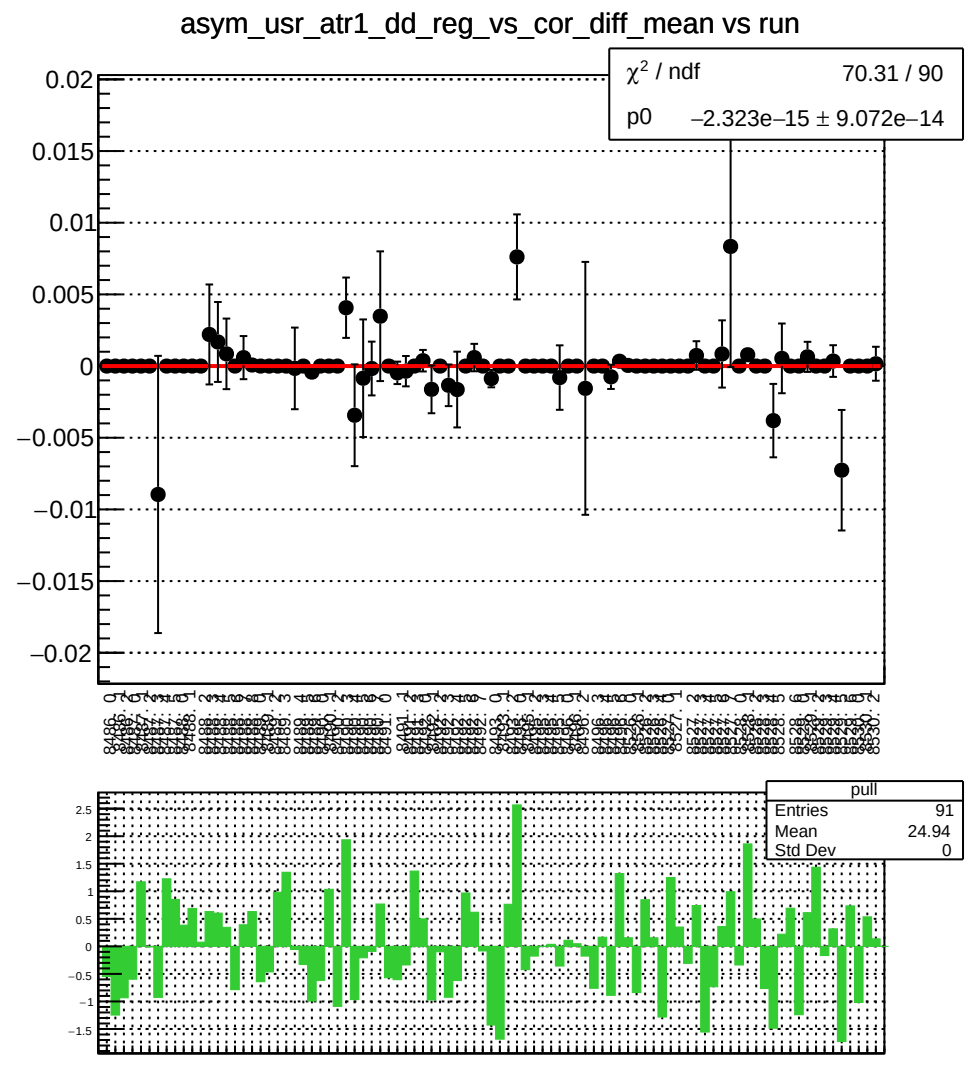

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 72.78 / 90
p0 1574 ± 776.9
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 173.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.01234
Std Dev 0.8942
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

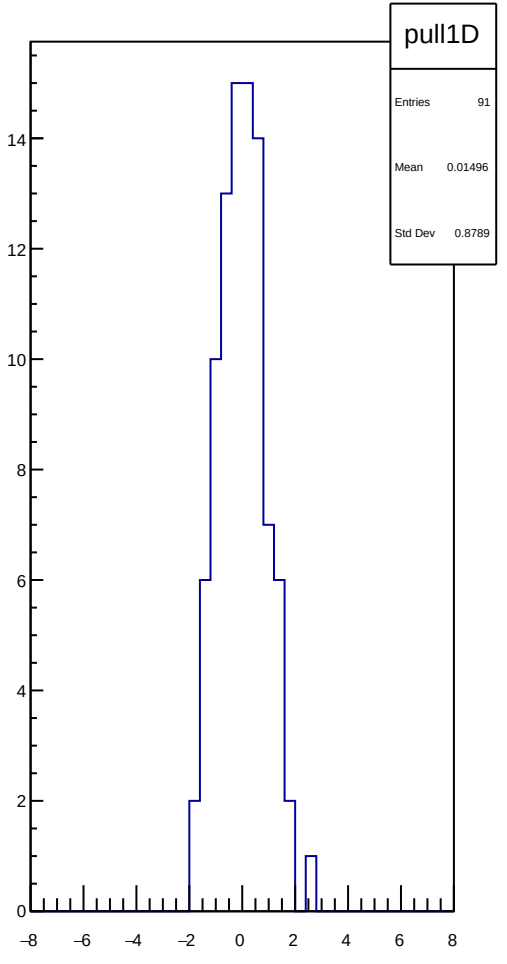

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1549 / 90
p0 726.3 ± 0.5494
780
760
740
720
700
680
660
640

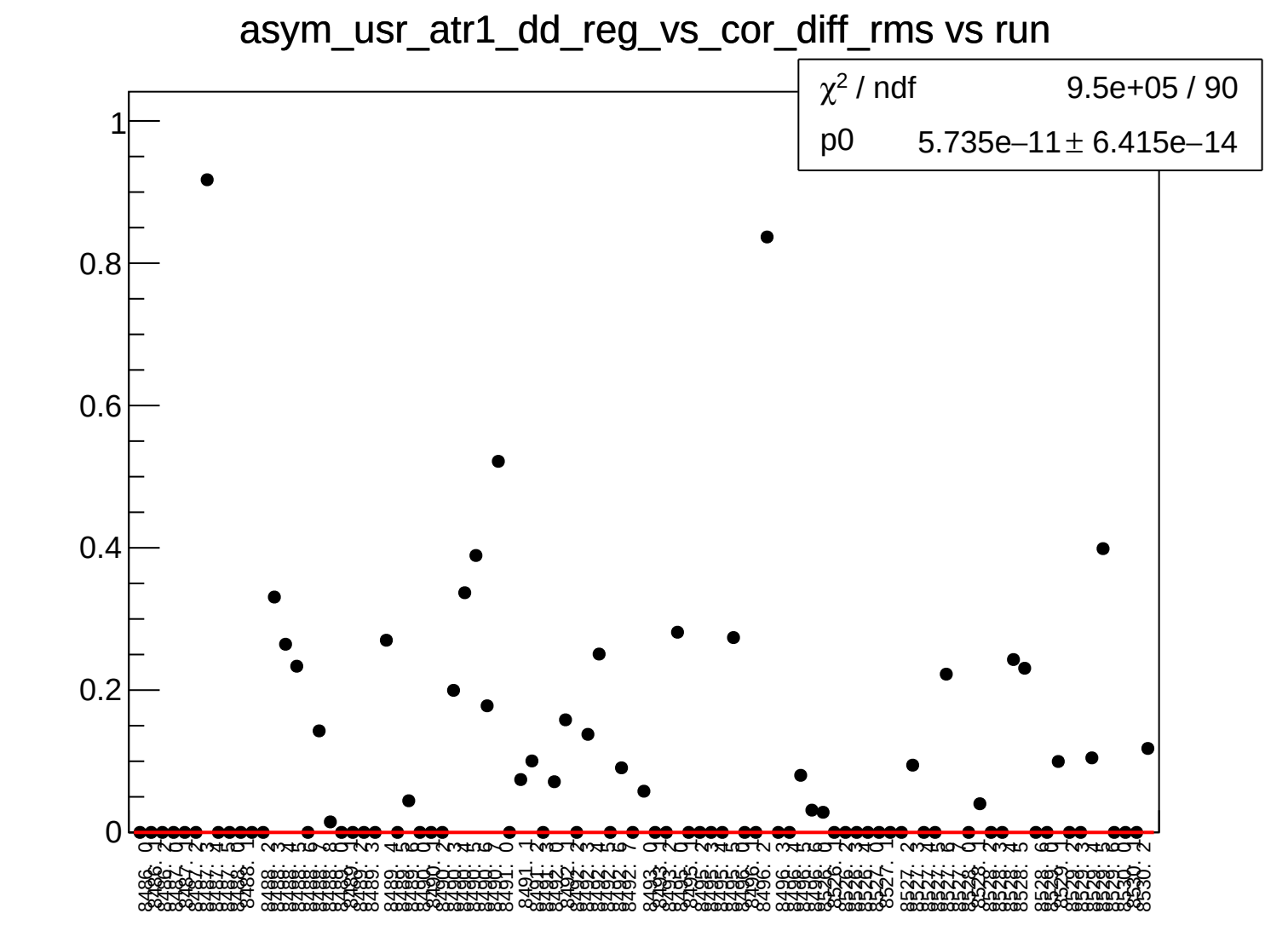

asym_usr_atr1_dd_mean vs run
χ² / ndf 76.43 / 90
p0 −2193 ± 1625
pull
Entries 91
Mean −286.3
Std Dev 0

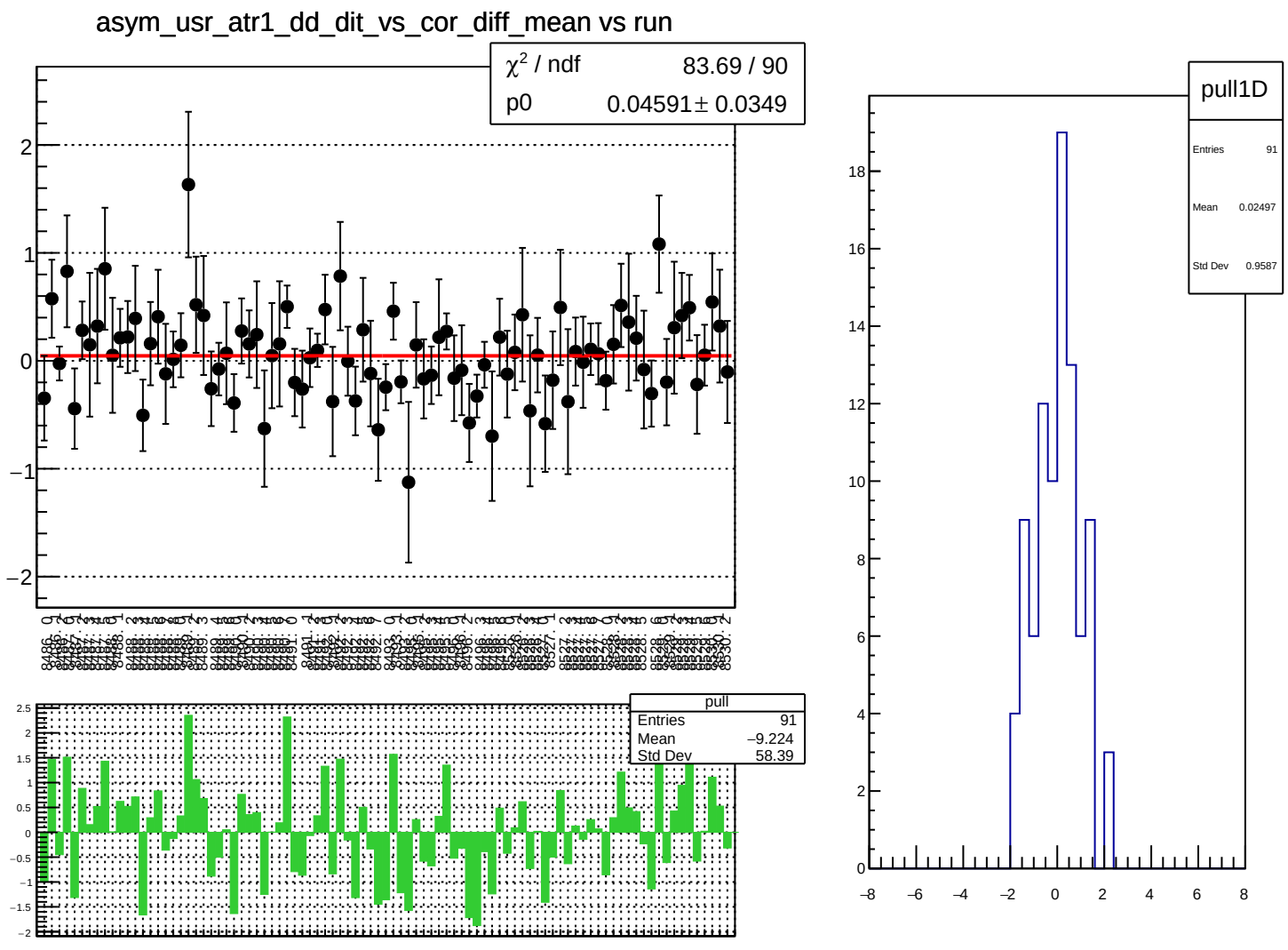

pull1D
Entries 91
Mean −0.0131
Std Dev 0.9164

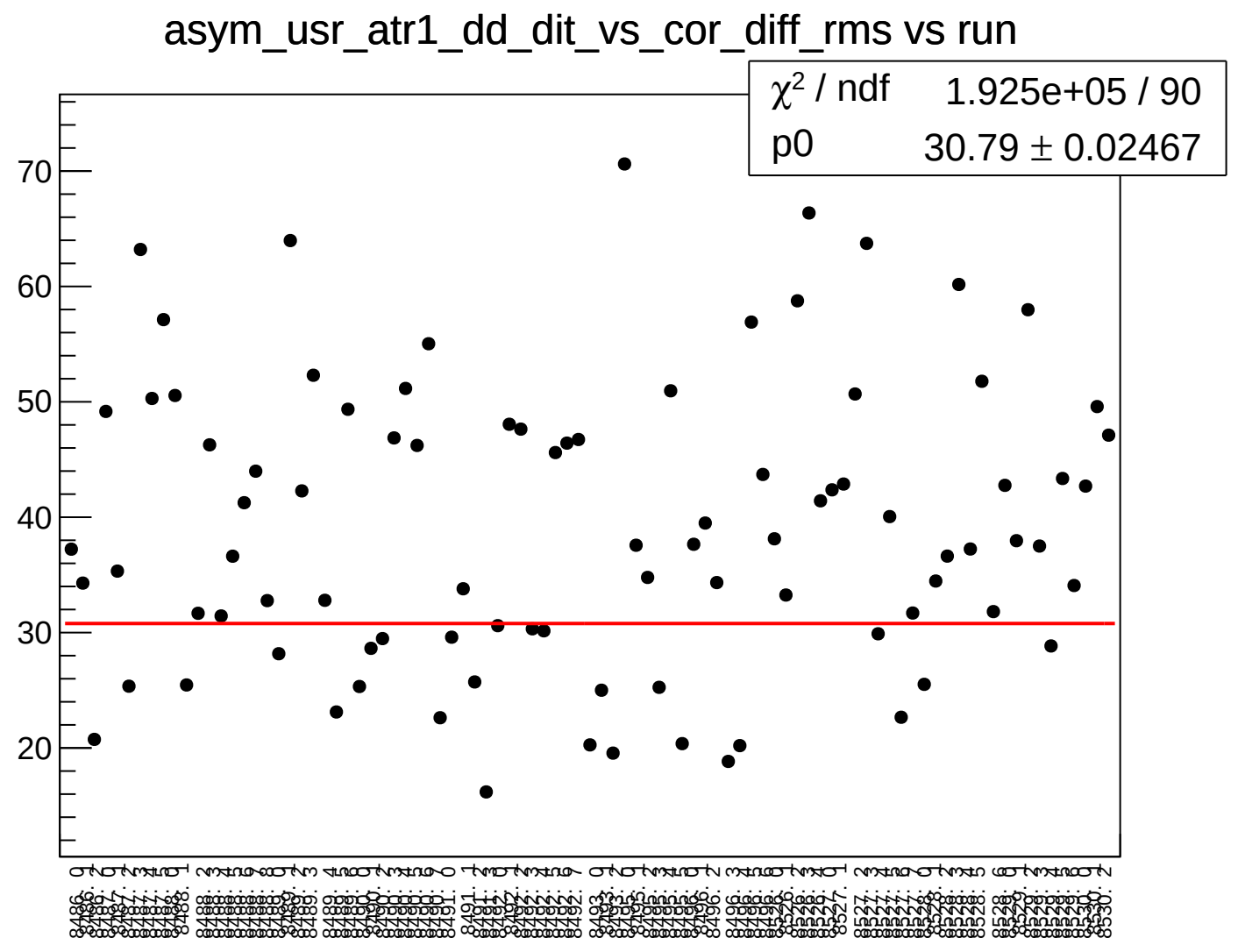

asym_usr_atr1_dd_rms vs run
χ² / ndf 158.4 / 90
p0 1520 ± 1.149
1560
1540
1520
1500
1480
1460

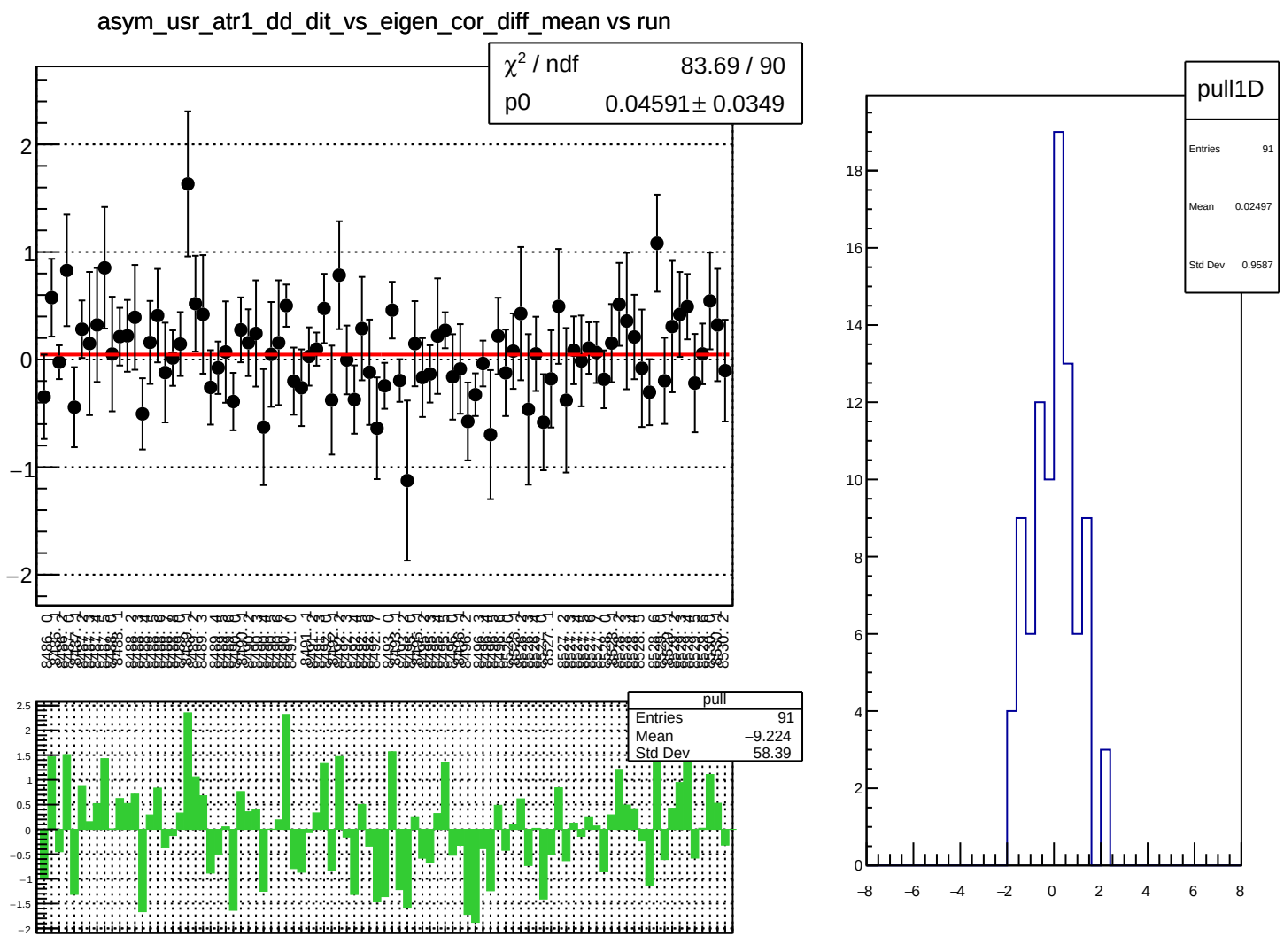

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 70.31 / 90
p0 −2.323e−15 ± 9.072e−14
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 91
Mean 24.94
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

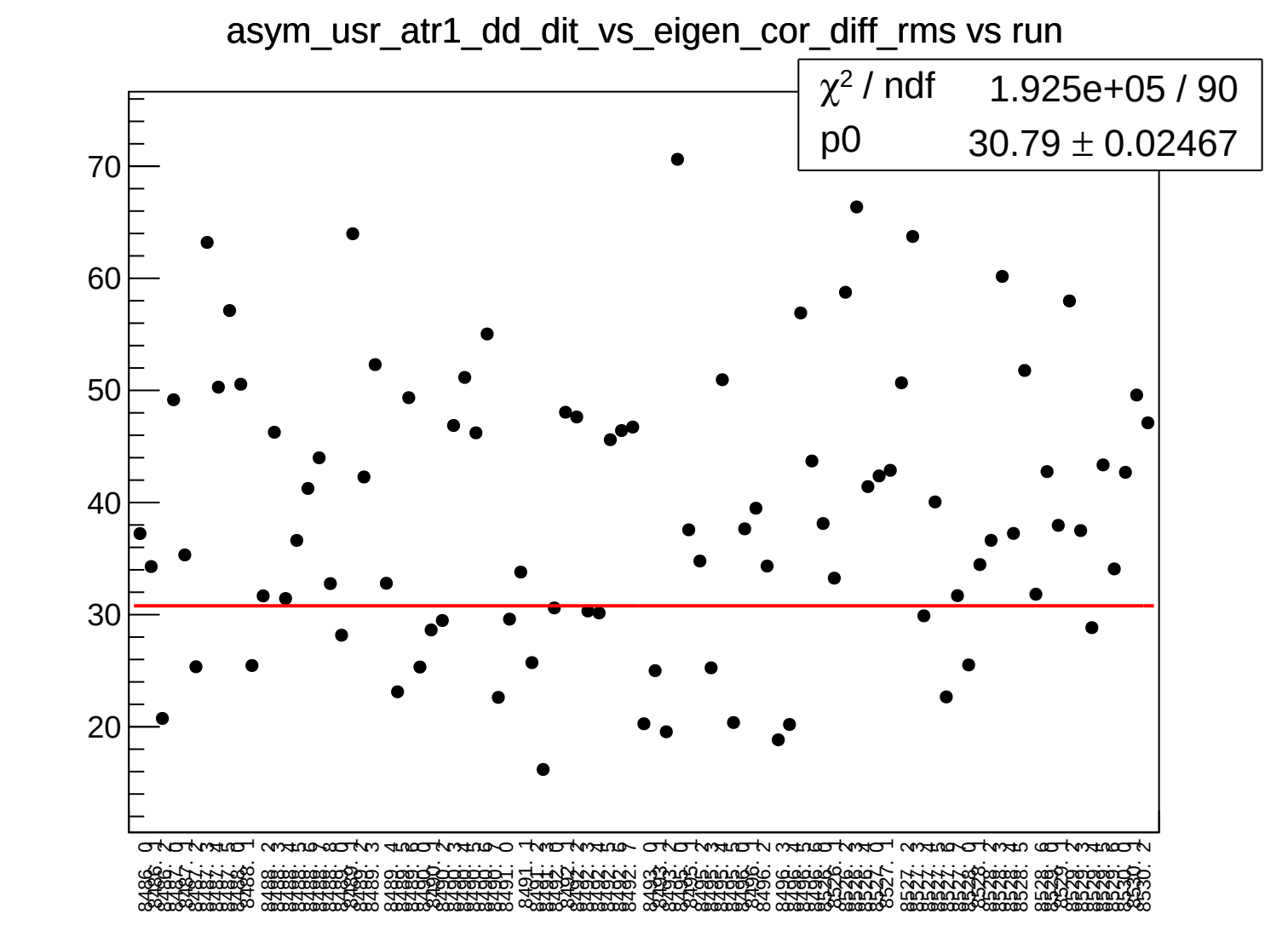

pull1D
Entries 91
Mean 0.01496
Std Dev 0.8789
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

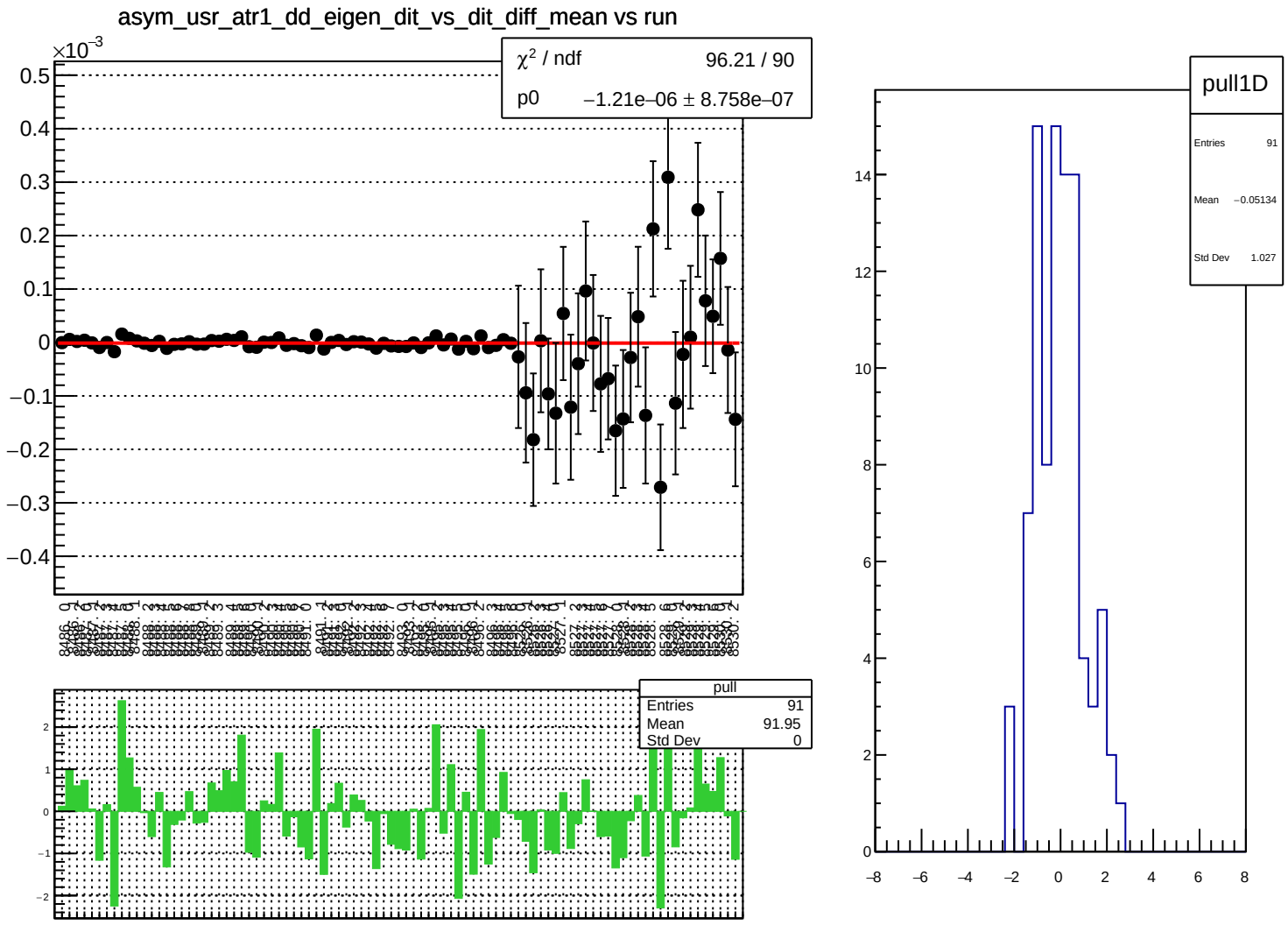

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.5e+05 / 90
p0 5.735e−11 ± 6.415e−14
1
0.8
0.6
0.4
0.2
0

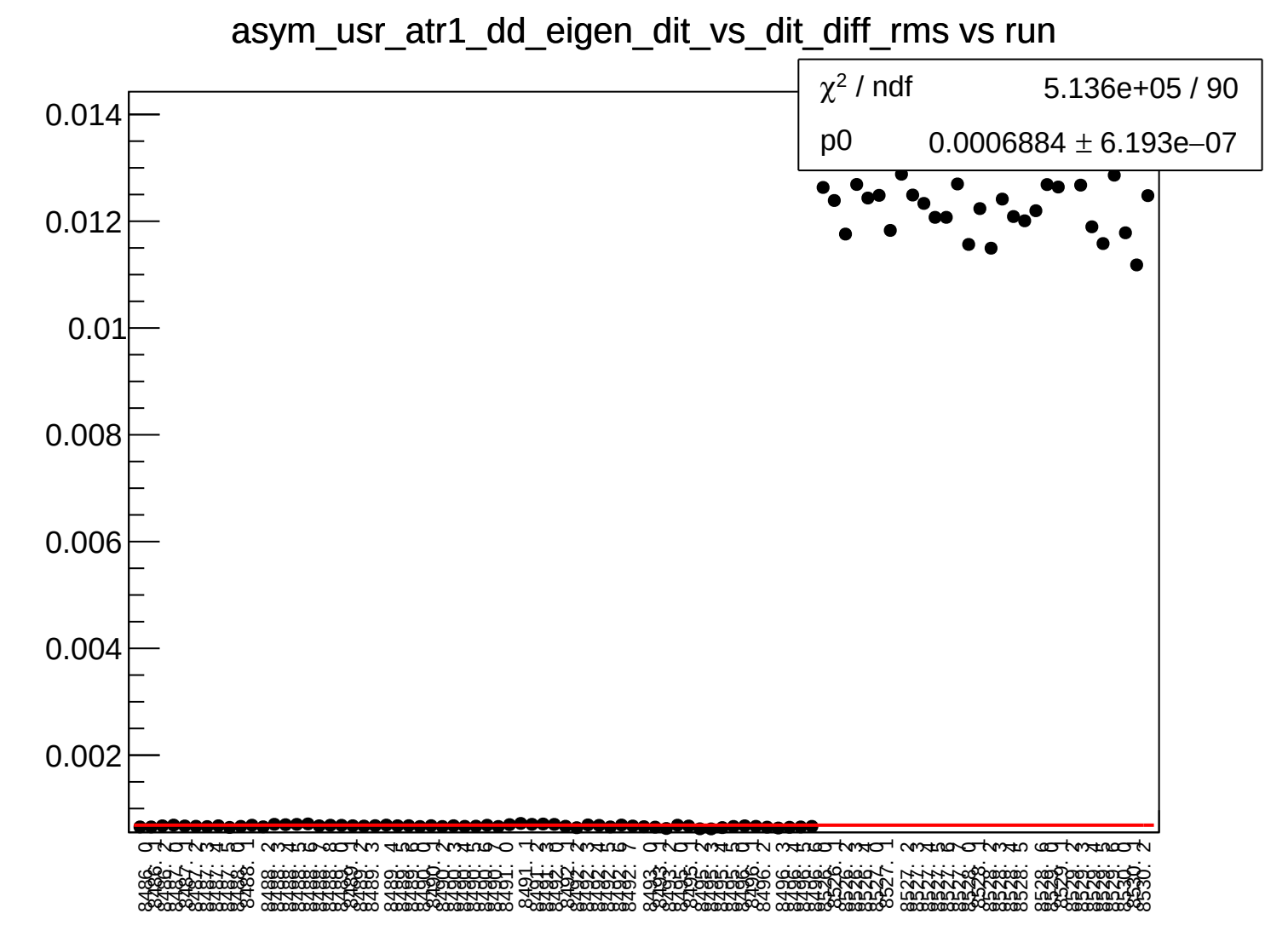

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 83.69 / 90
p0 0.04591 ± 0.0349
pull
Entries 91
Mean −9.224
Std Dev 58.39
pull1D
Entries 91
Mean 0.02497
Std Dev 0.9587

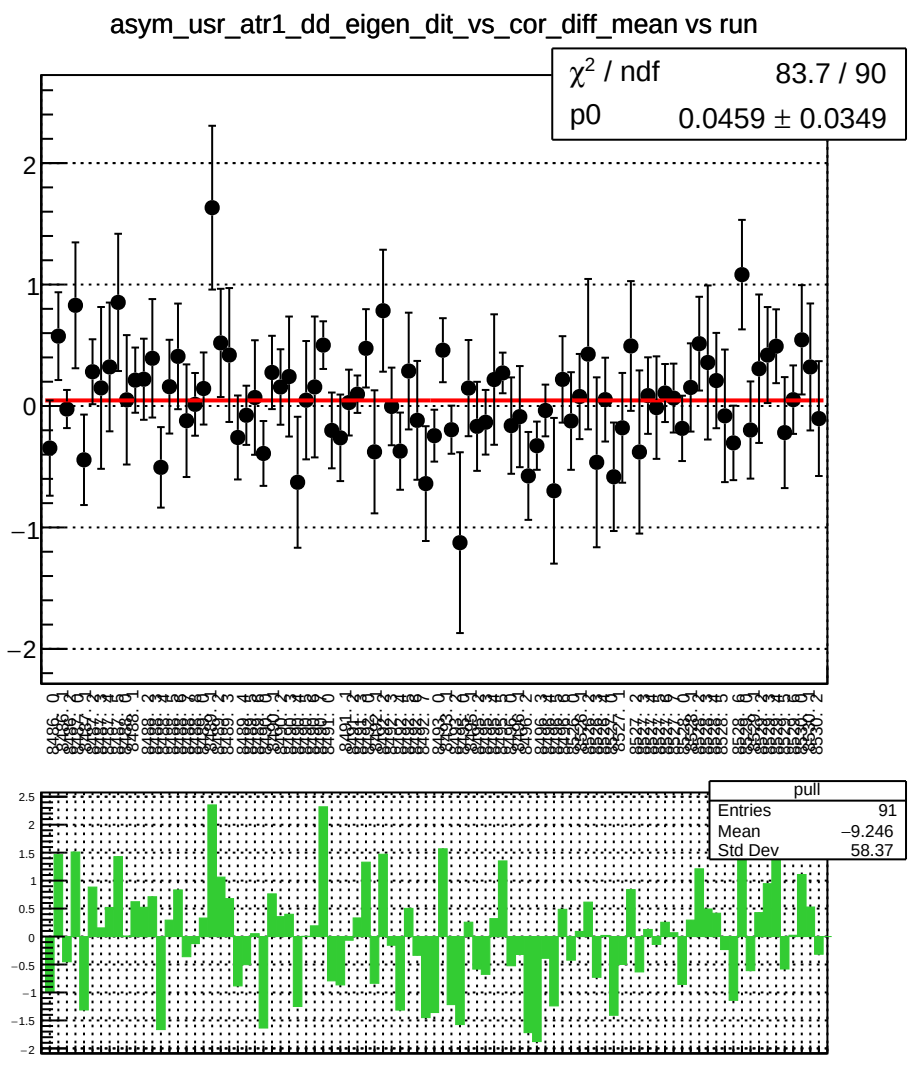

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.925e+05 / 90
p0 30.79 ± 0.02467
70
60
50
40
30
20

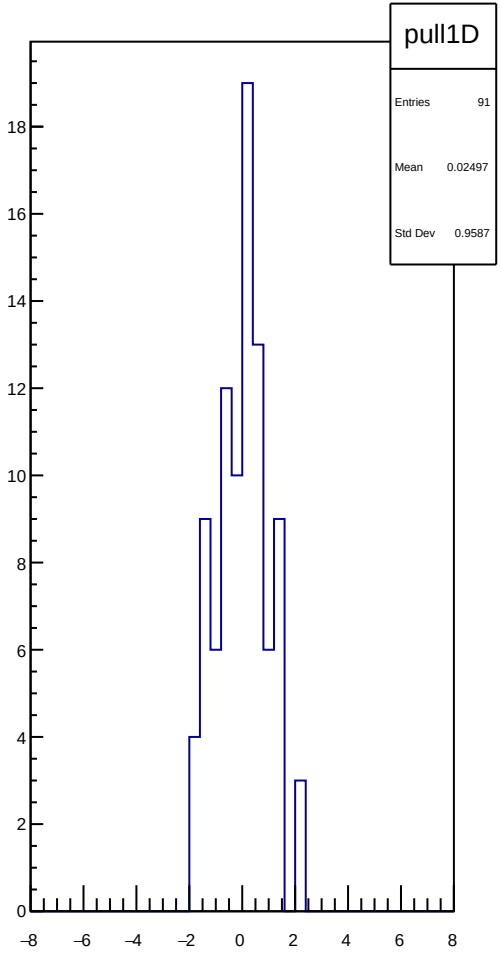

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.69 / 90
p0 0.04591 ± 0.0349
pull
Entries 91
Mean −9.224
Std Dev 58.39
pull1D
Entries 91
Mean 0.02497
Std Dev 0.9587

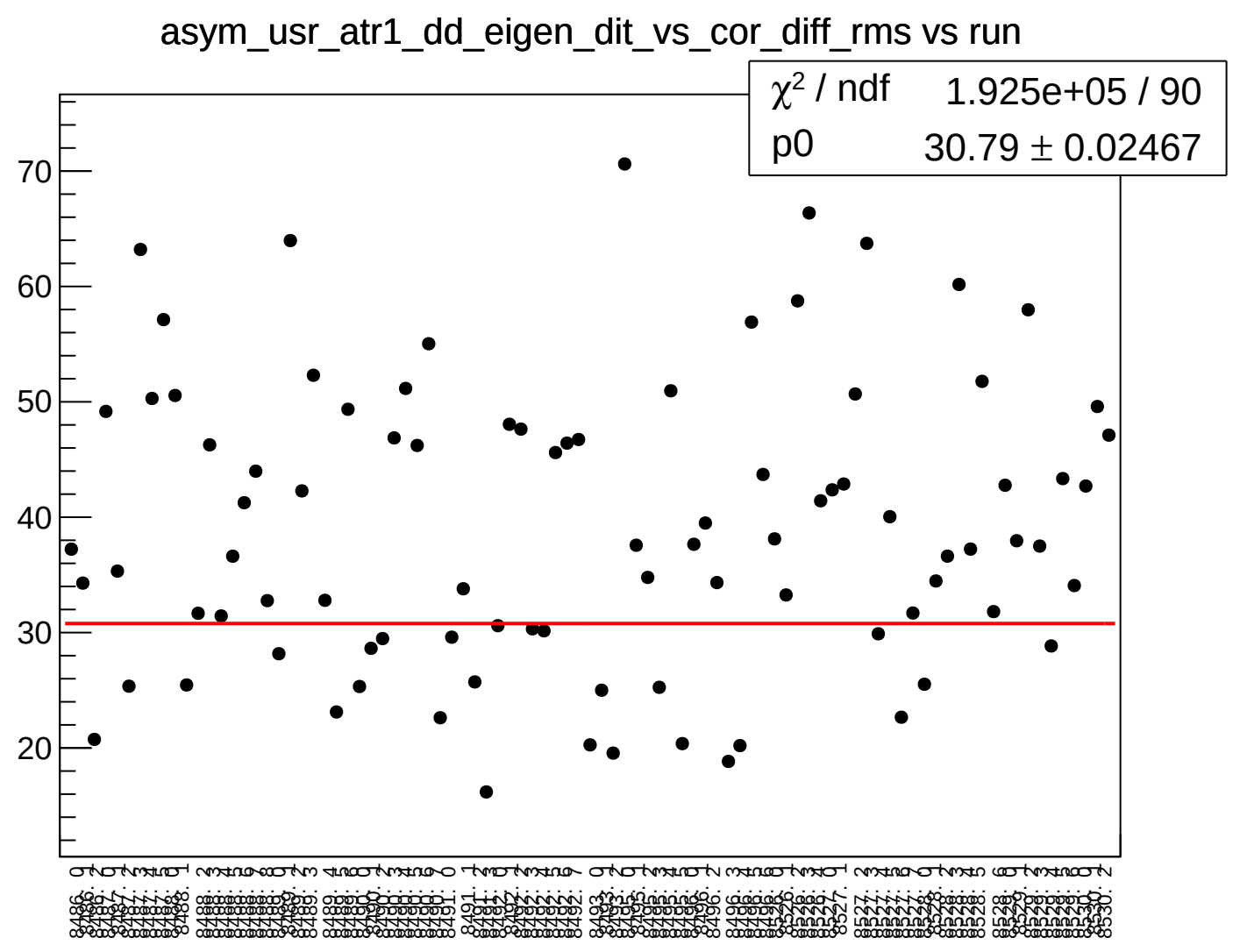

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.925e+05 / 90
p0 30.79 ± 0.02467
70
60
50
40
30
20

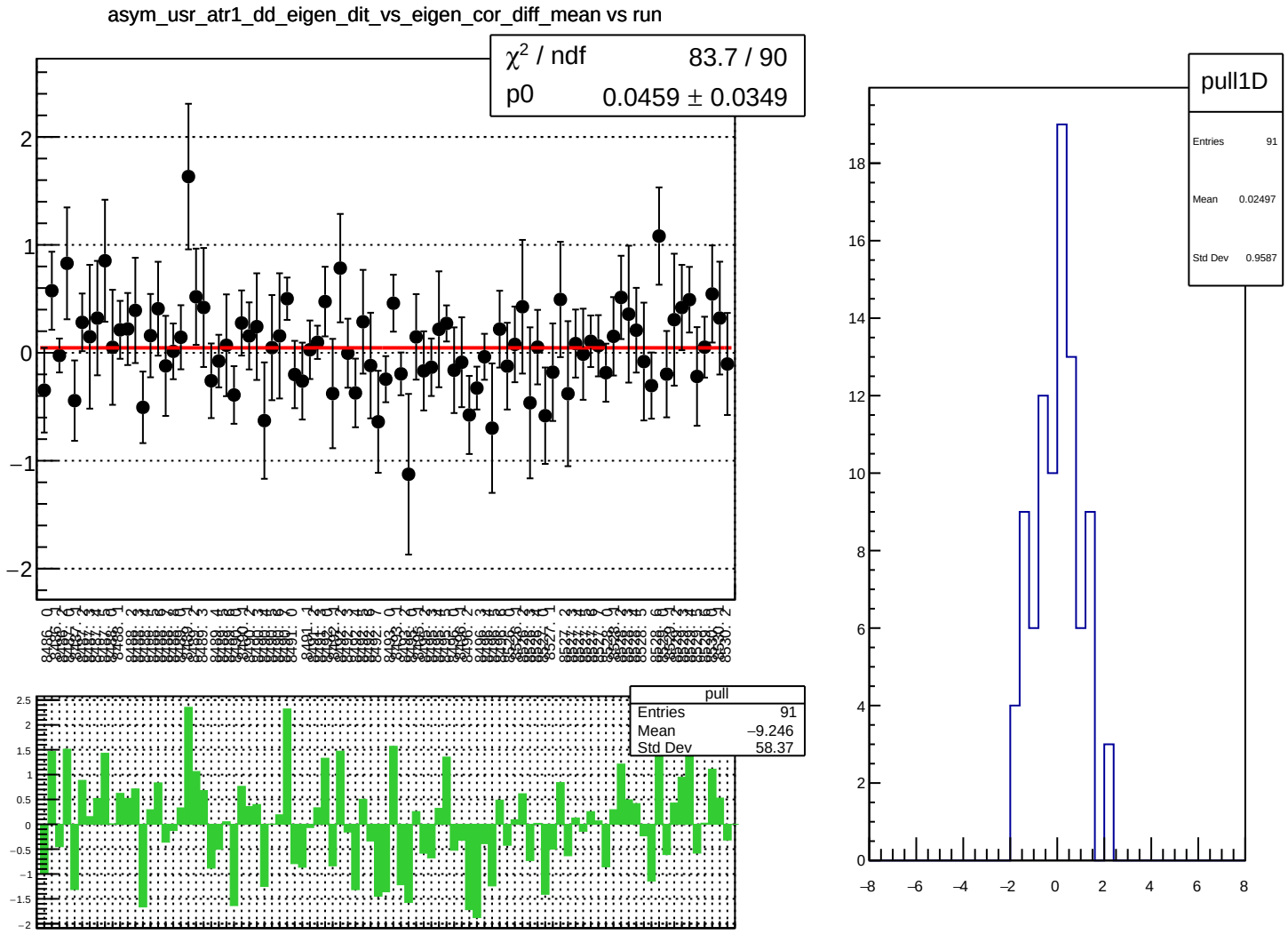

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.21 / 90
p0 −1.21e−06 ± 8.758e−07
pull
Entries 91
Mean 91.95
Std Dev 0
pull1D
Entries 91
Mean −0.05134
Std Dev 1.027

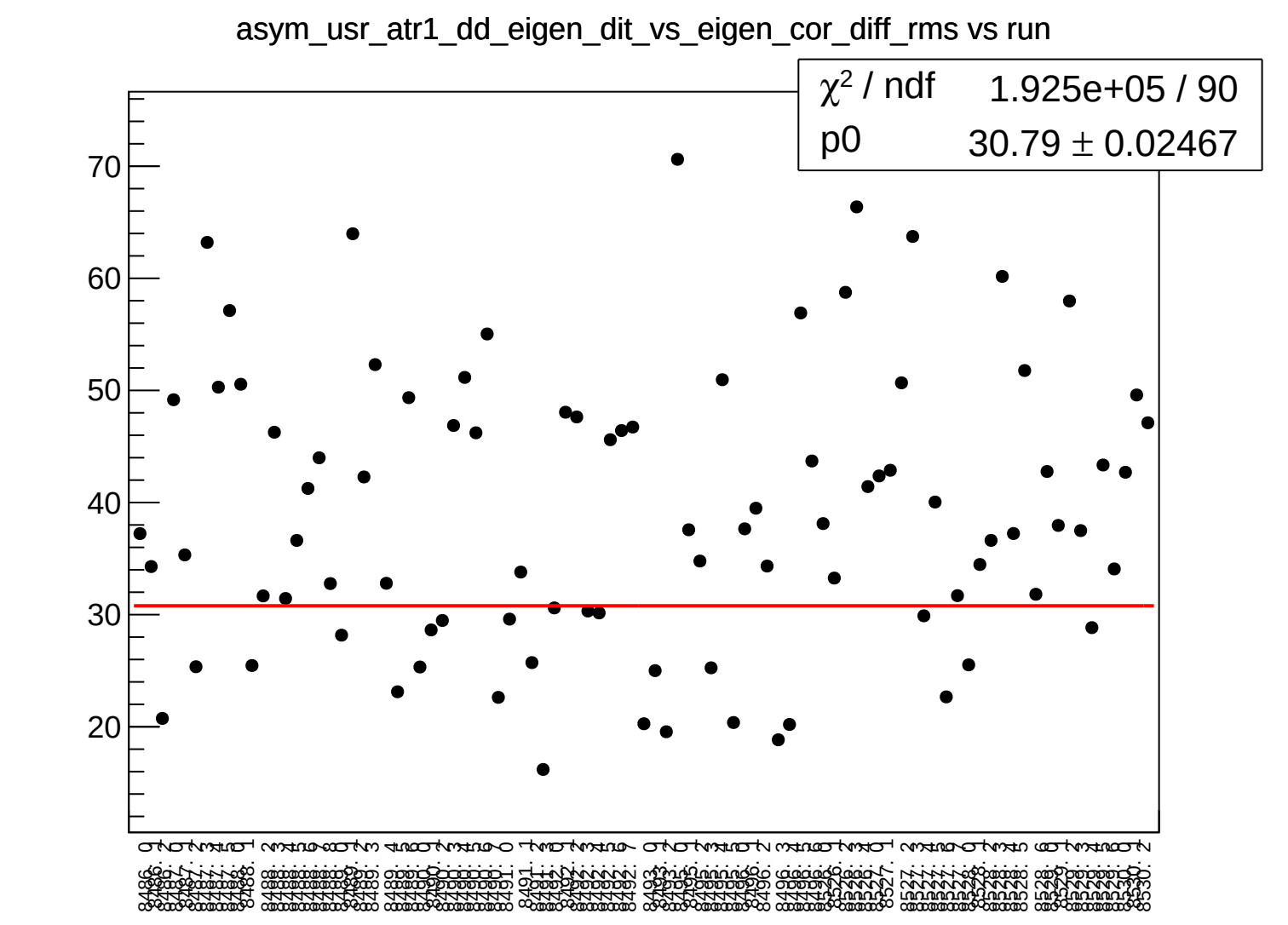

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.136e+05 / 90
p0 0.0006884 ± 6.193e−07
0.014
0.012
0.01
0.008
0.006
0.004
0.002

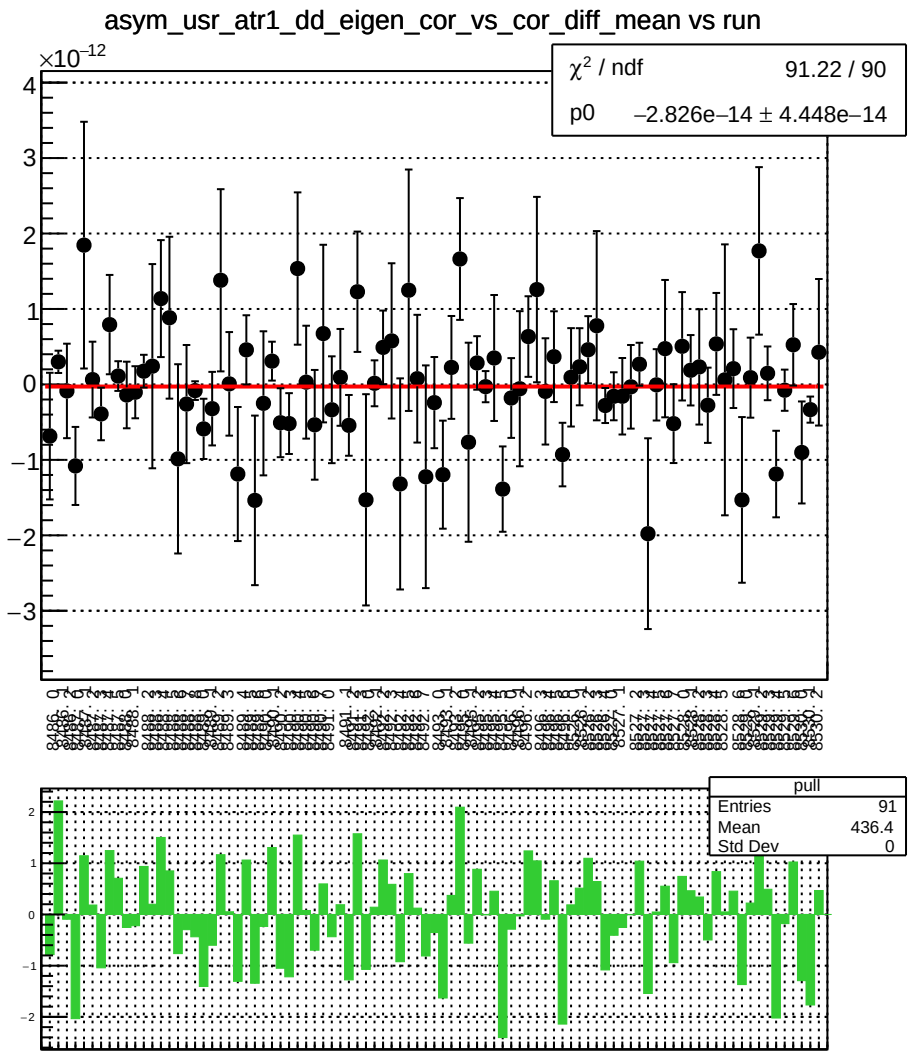

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.7 / 90
p0 0.0459 ± 0.0349
pull
Entries 91
Mean −9.246
Std Dev 58.37

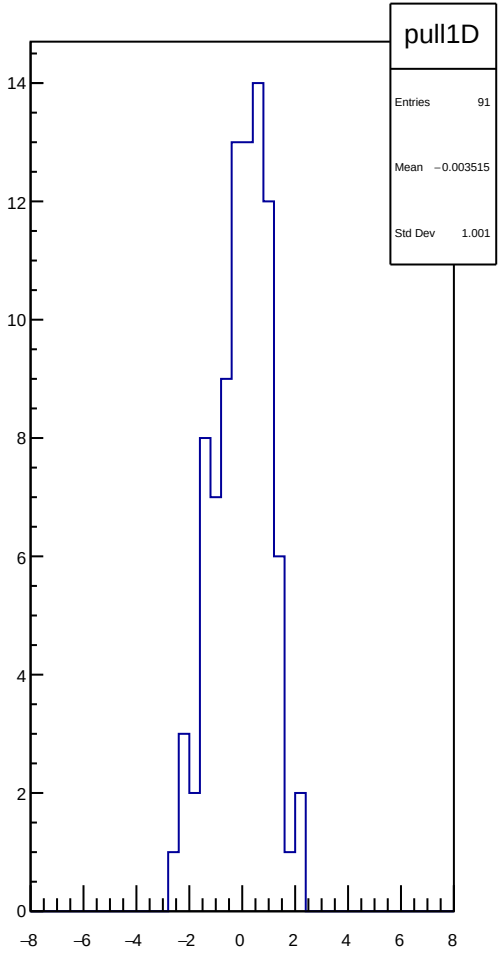

pull1D
Entries 91
Mean 0.02497
Std Dev 0.9587

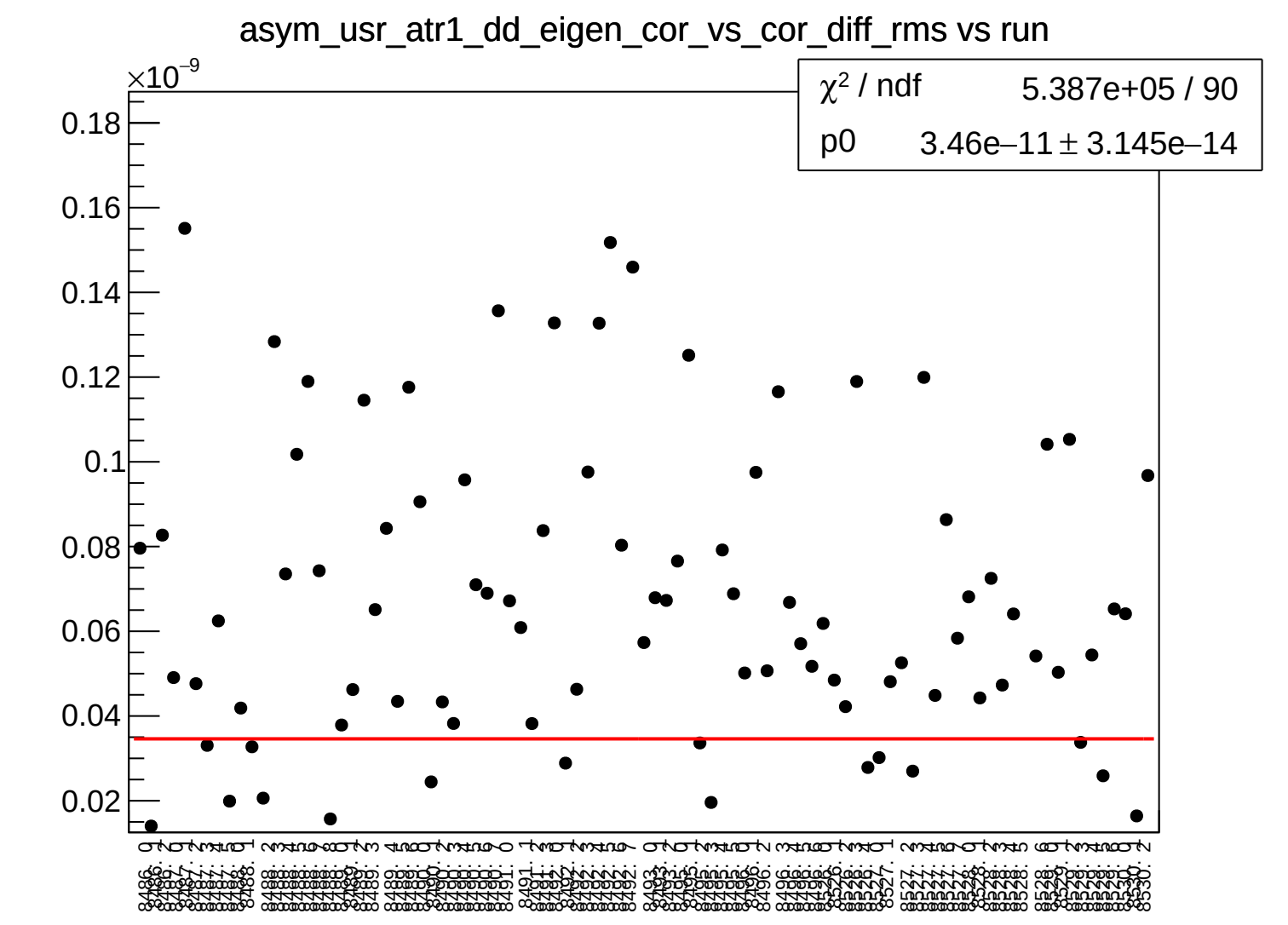

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.925e+05 / 90
p0 30.79 ± 0.02467
70
60
50
40
30
20

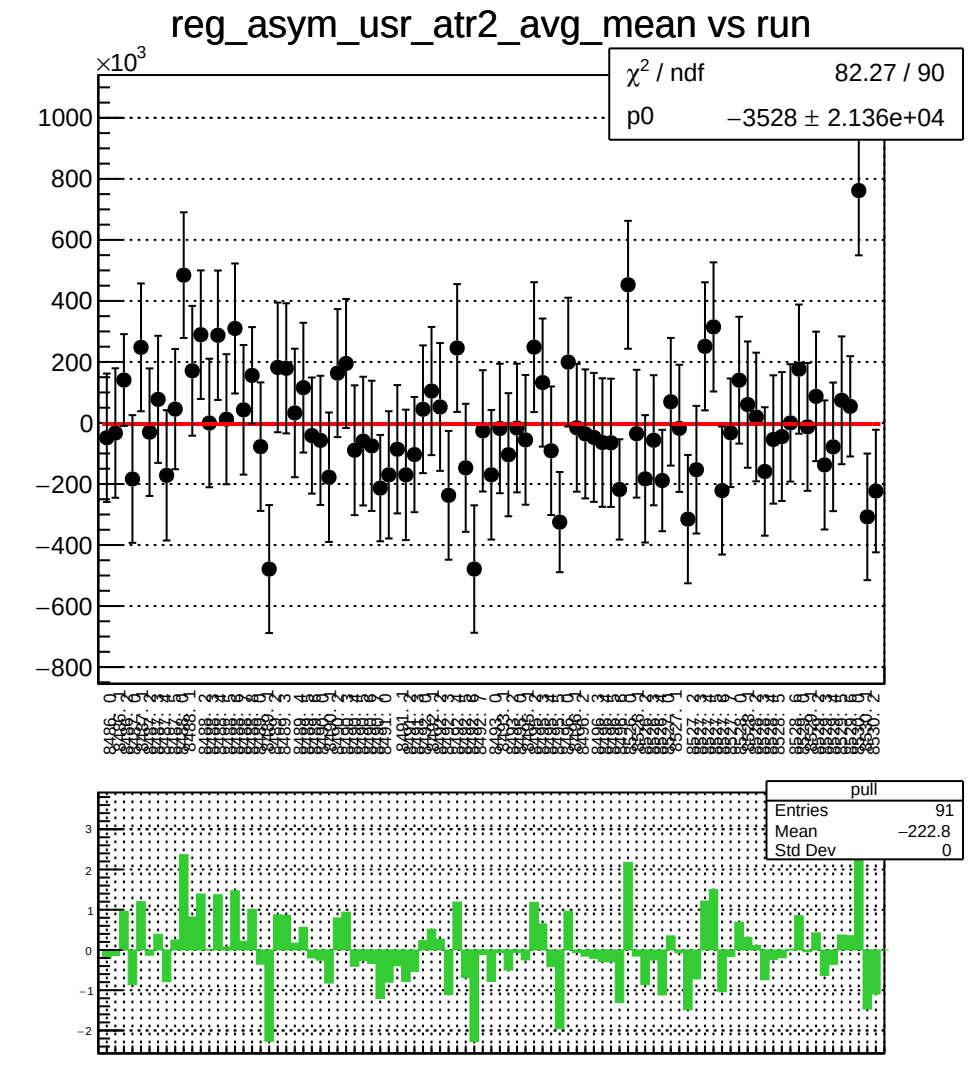

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.7 / 90
p0 0.0459 ± 0.0349
pull
Entries 91
Mean −9.246
Std Dev 58.37
pull1D
Entries 91
Mean 0.02497
Std Dev 0.9587

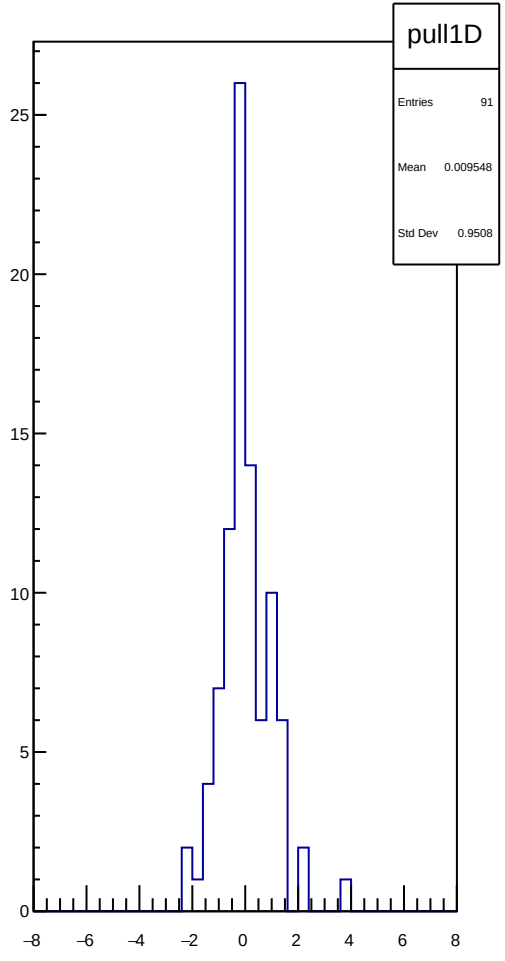

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.925e+05 / 90
p0 30.79 ± 0.02467
70
60
50
40
30
20

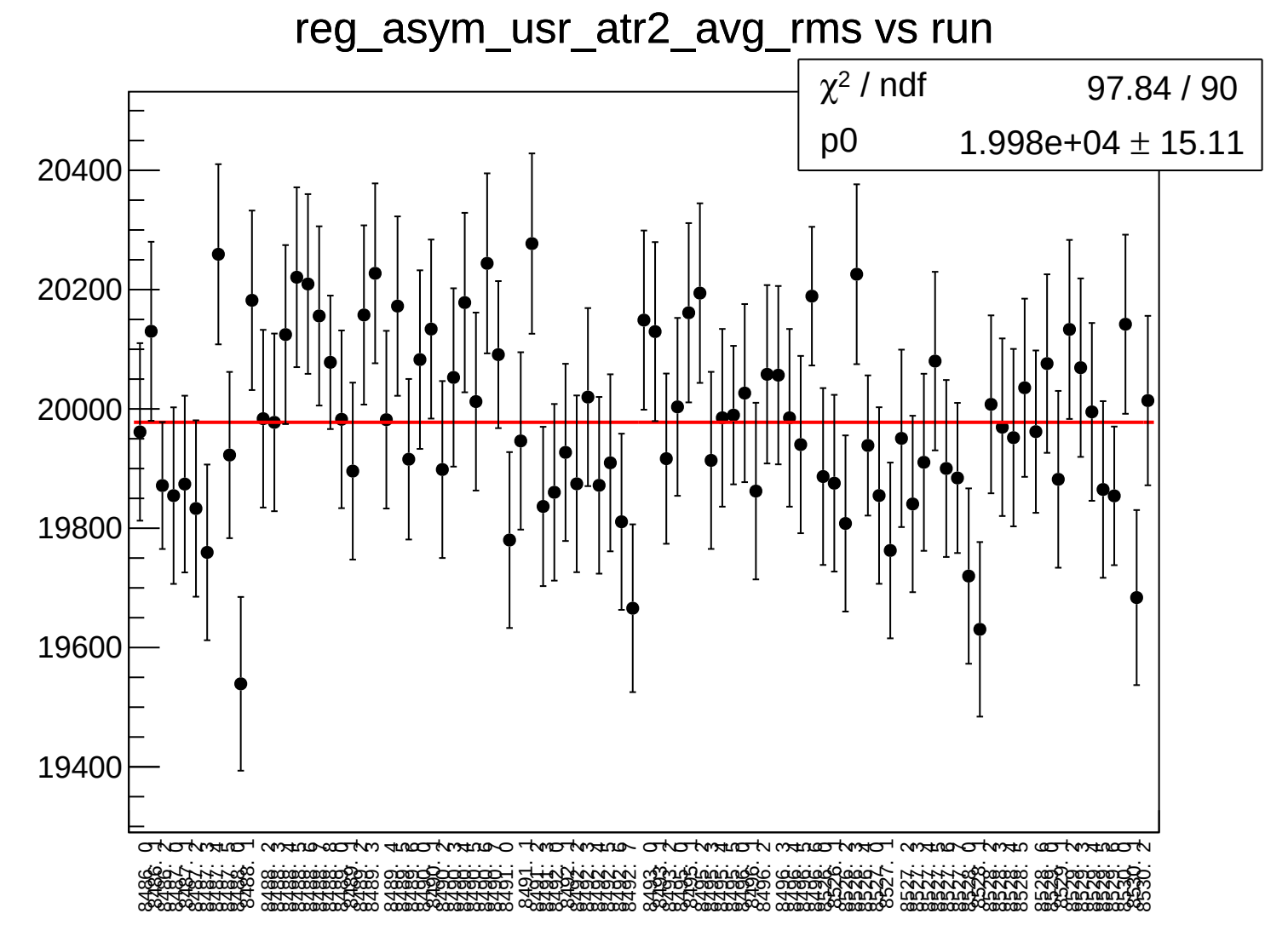

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.22 / 90
p0 −2.826e−14 ± 4.448e−14
pull
Entries 91
Mean 436.4
Std Dev 0

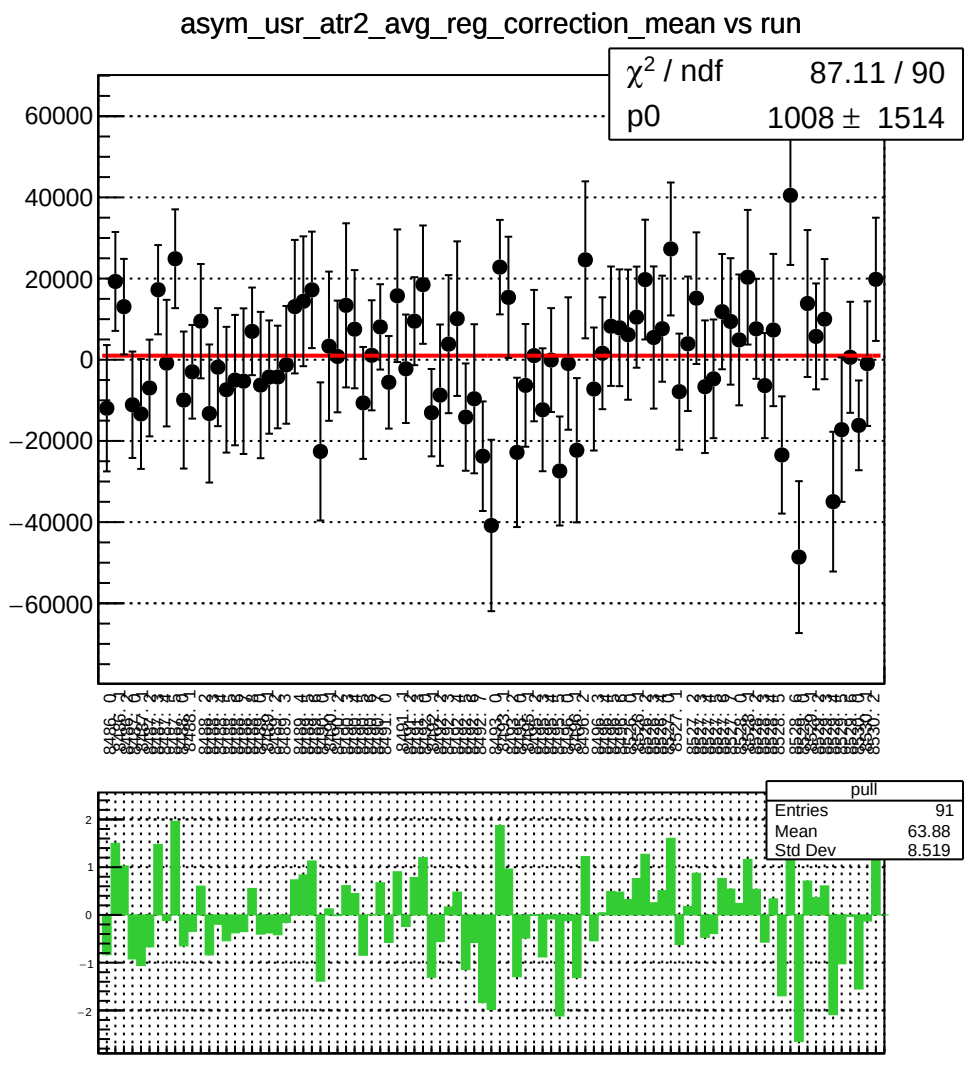

pull1D
Entries 91
Mean −0.003515
Std Dev 1.001

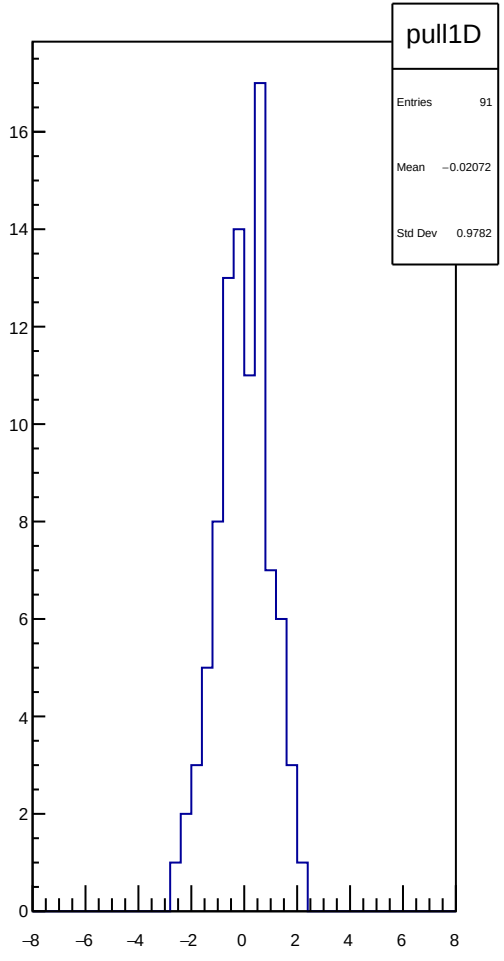

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.387e+05 / 90
p0 3.46e−11 ± 3.145e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

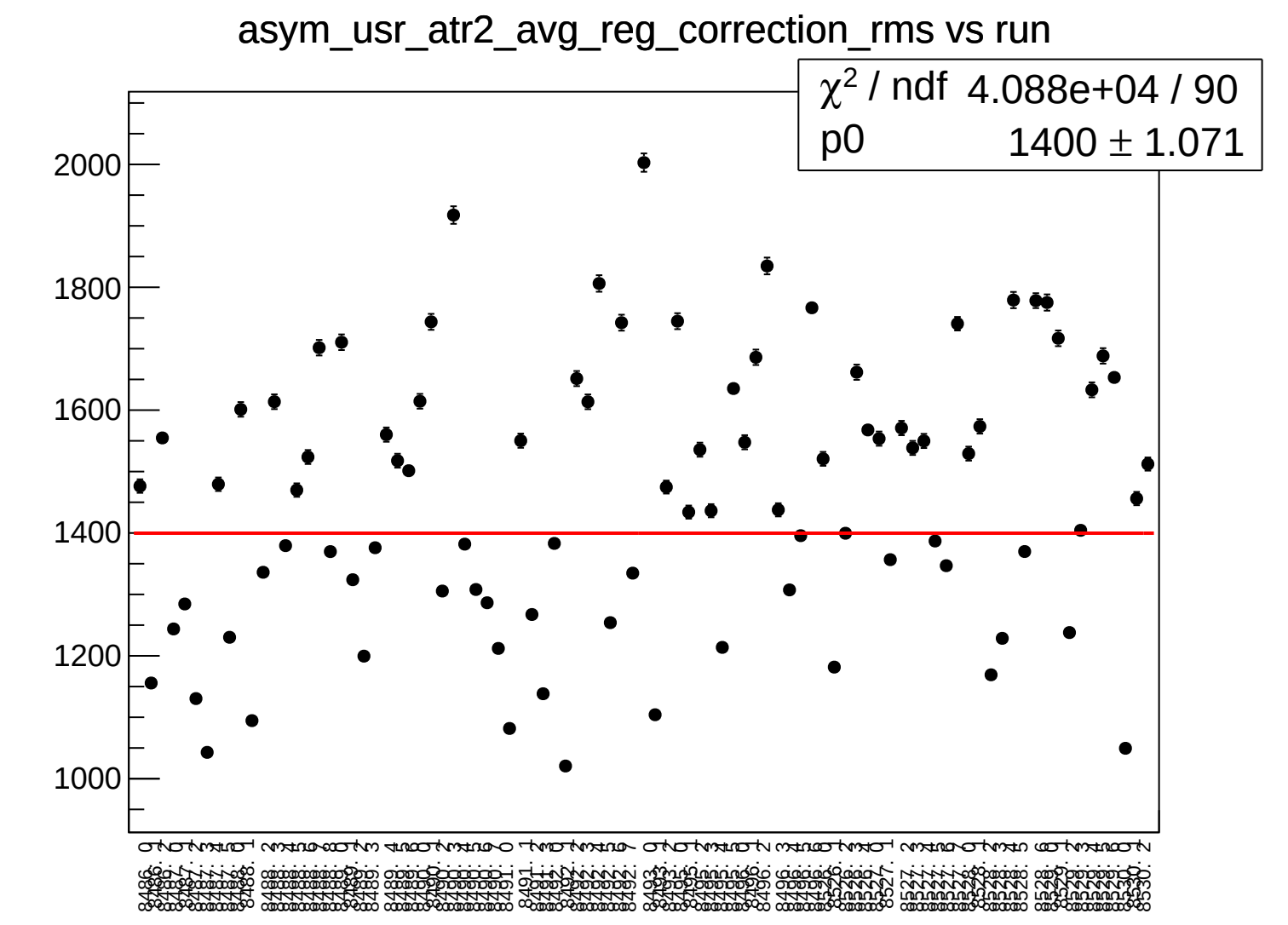

reg_asym_usr_atr2_avg_mean vs run
×10^3
χ² / ndf 82.27 / 90
p0 −3528 ± 2.136e+04
pull
Entries 91
Mean −222.8
Std Dev 0

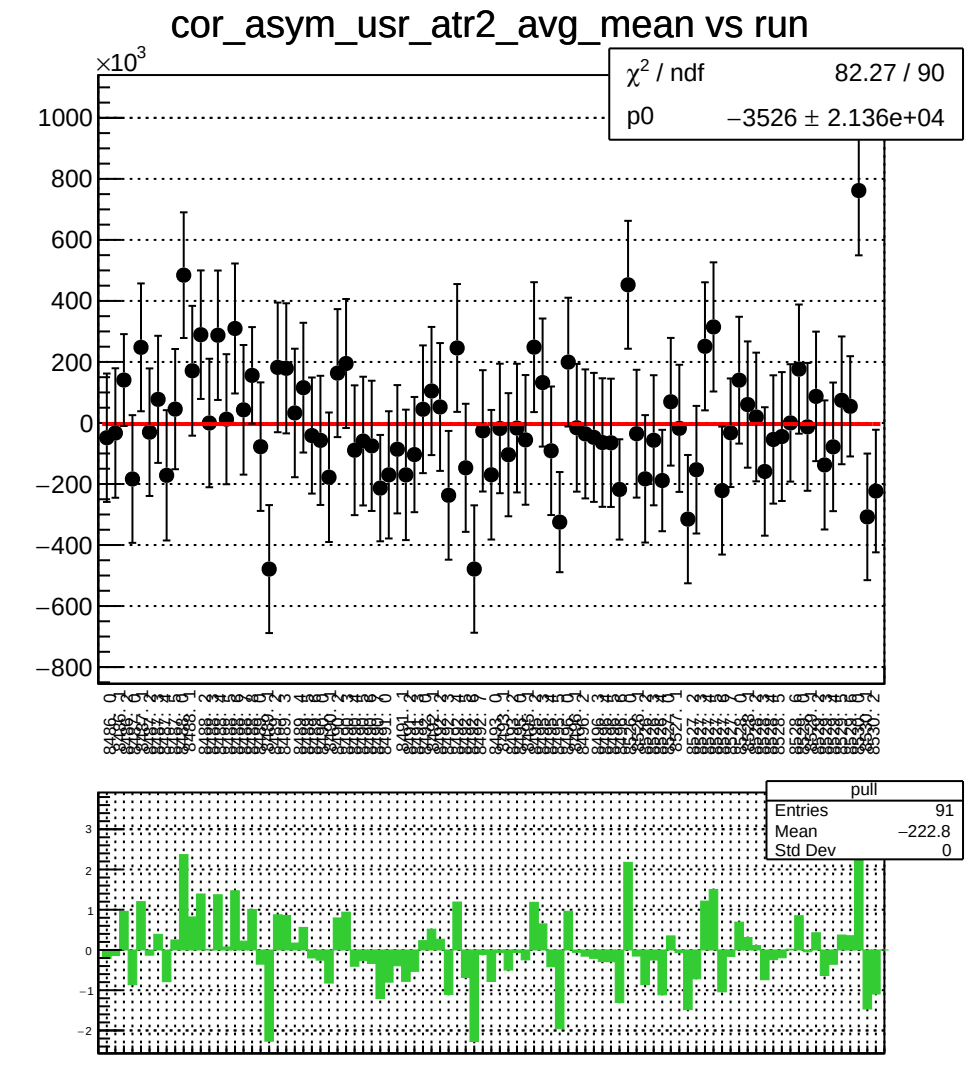

pull1D
Entries 91
Mean 0.009548
Std Dev 0.9508

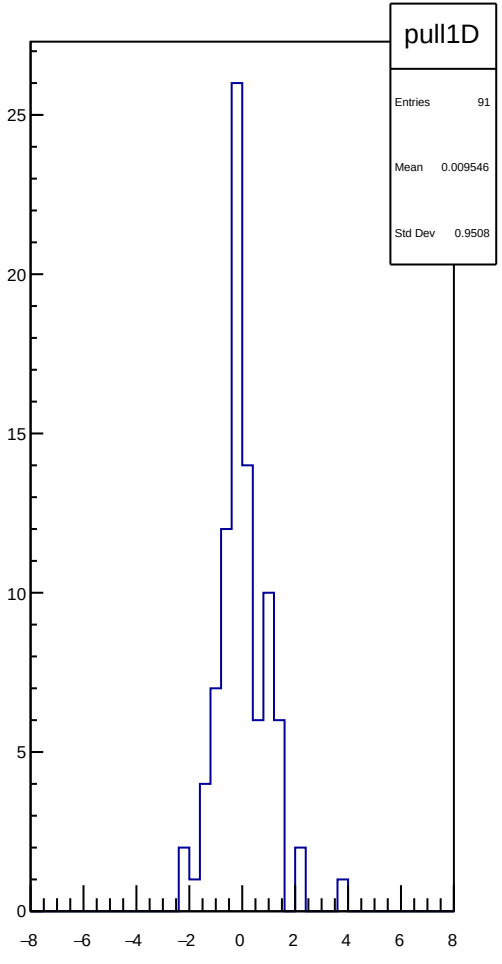

reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 97.84 / 90
p0 1.998e+04 ± 15.11
20400
20200
20000
19800
19600
19400

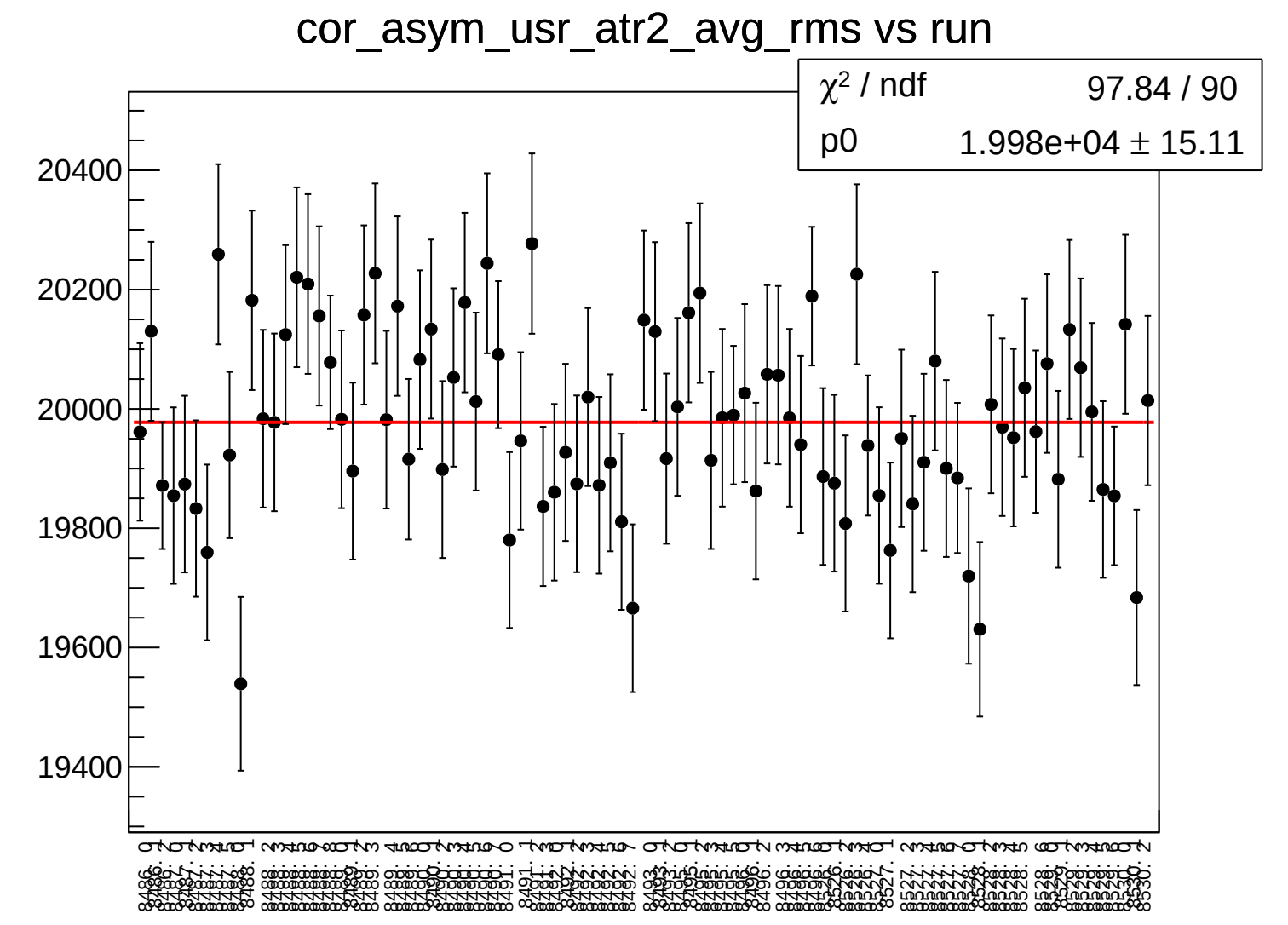

asym_usr_atr2_avg_reg_correction_mean vs run
χ² / ndf 87.11 / 90
p0 1008 ± 1514
pull
Entries 91
Mean 63.88
Std Dev 8.519

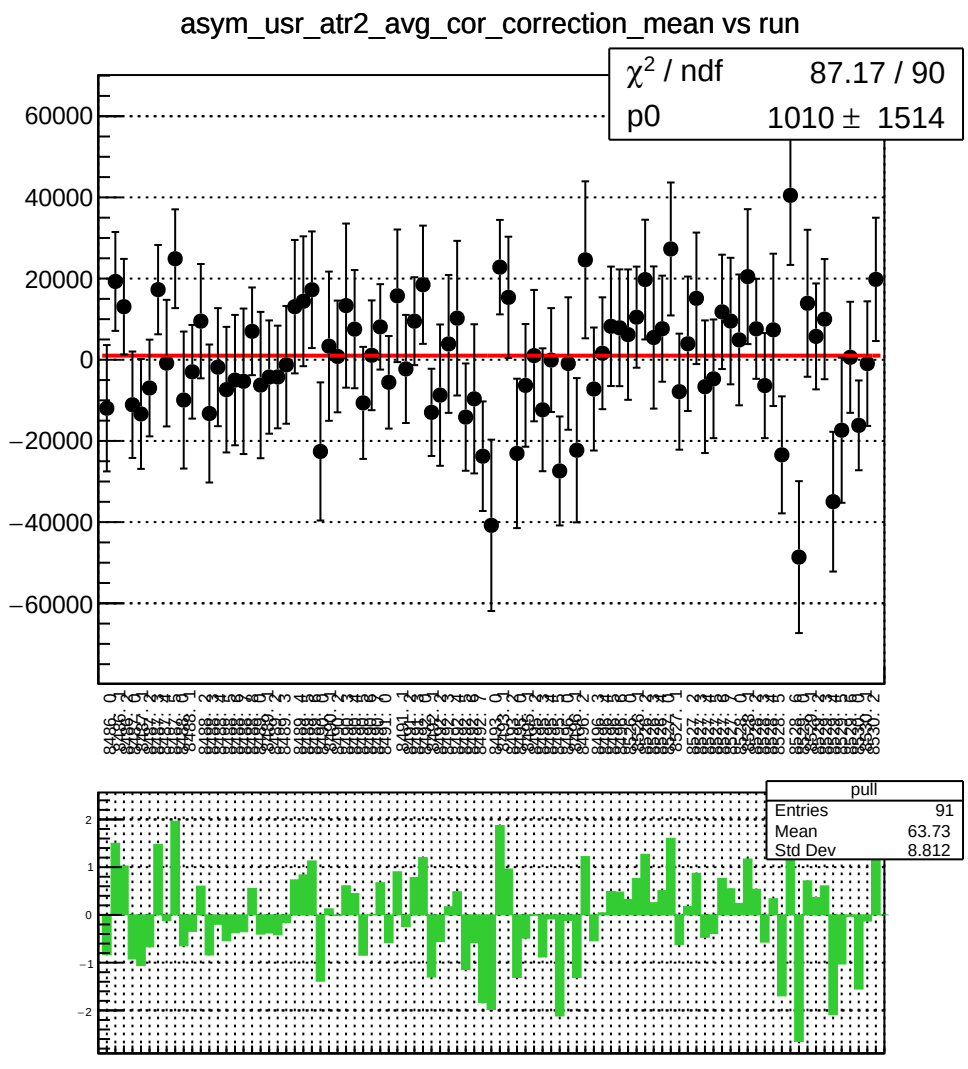

pull1D
Entries 91
Mean −0.02072
Std Dev 0.9782

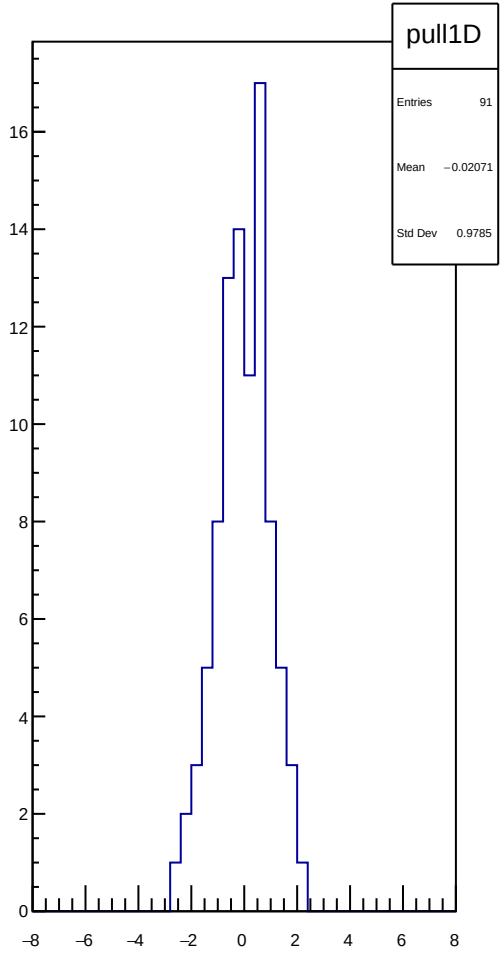

asym_usr_atr2_avg_reg_correction_rms vs run
χ² / ndf 4.088e+04 / 90
p0 1400 ± 1.071
2000
1800
1600
1400
1200
1000

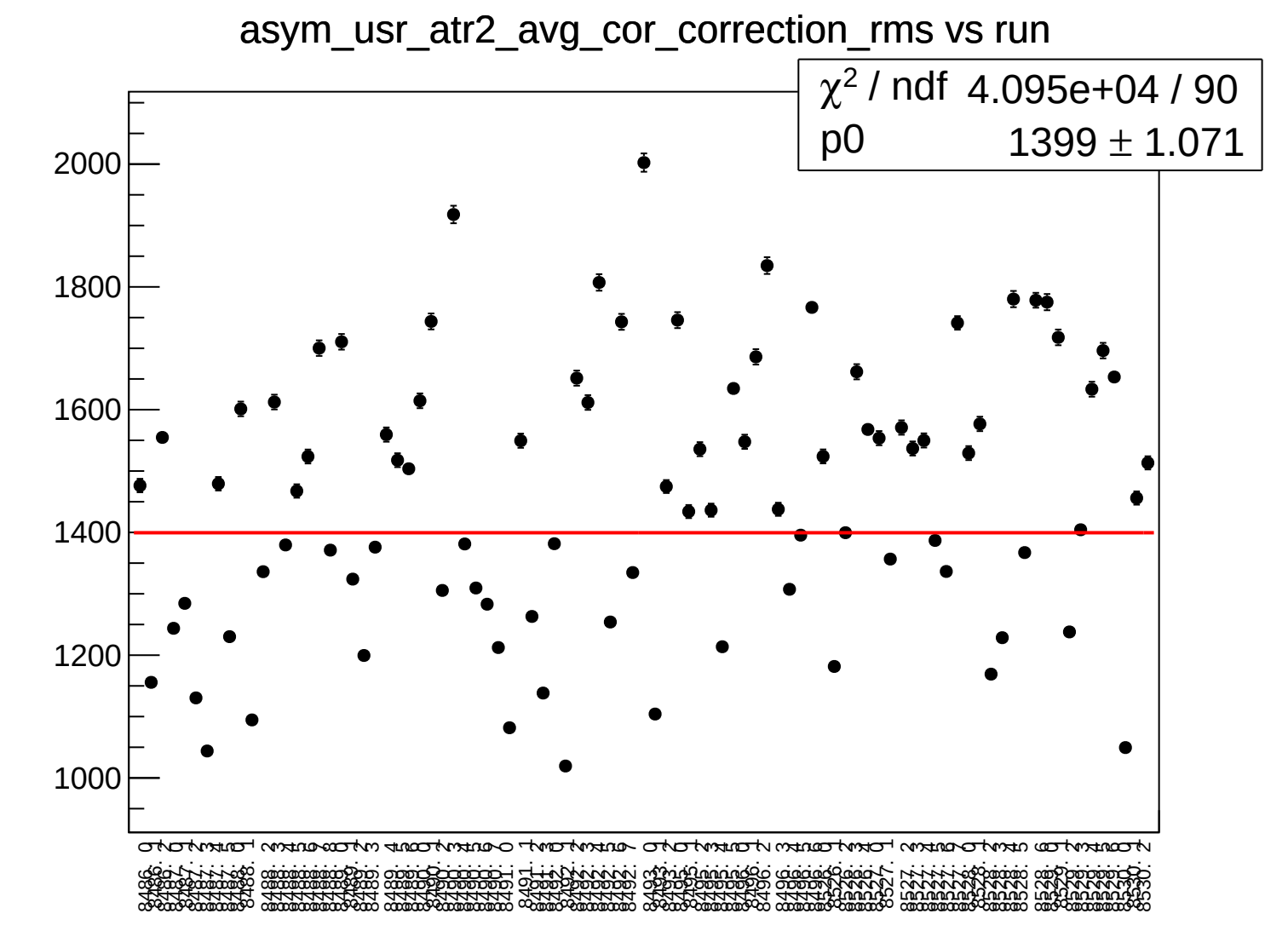

cor_asym_usr_atr2_avg_mean vs run
×10^3
χ² / ndf 82.27 / 90
p0 −3526 ± 2.136e+04
pull
Entries 91
Mean −222.8
Std Dev 0

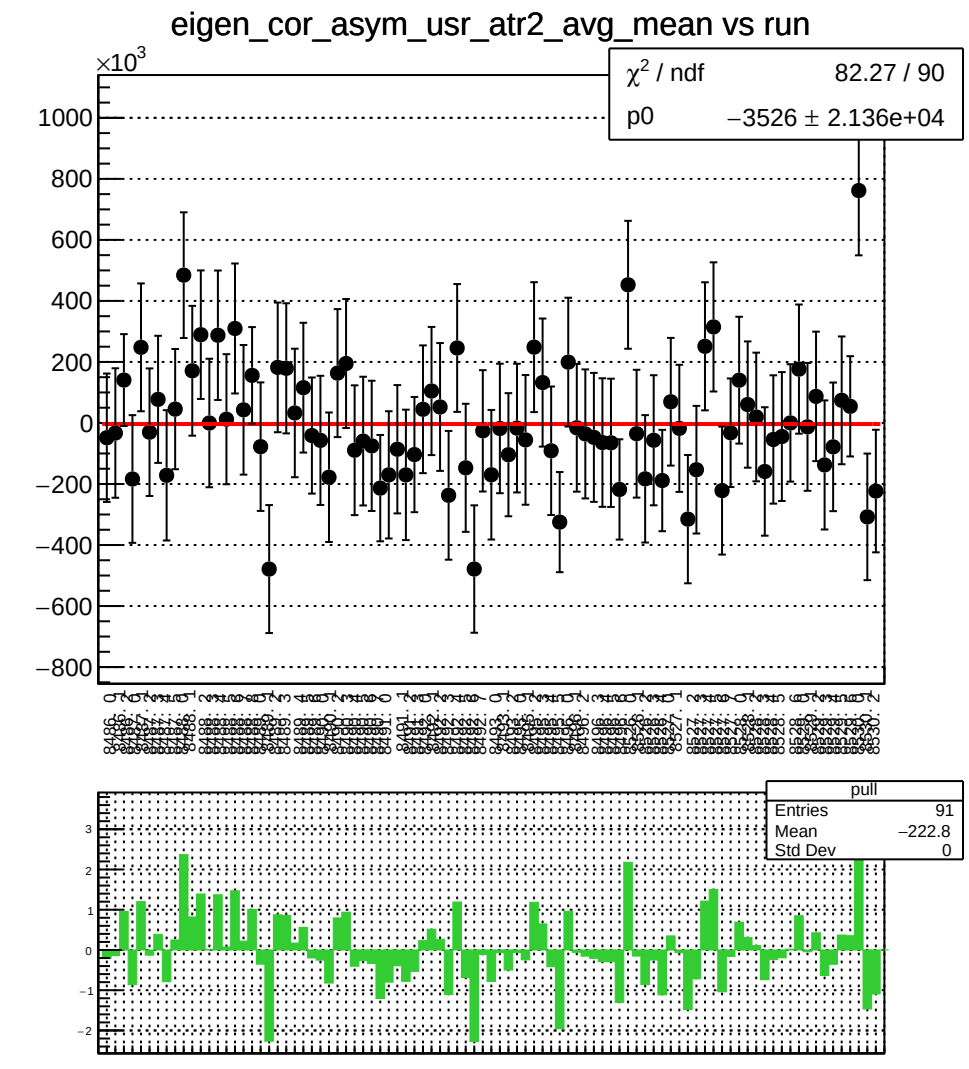

pull1D
Entries 91
Mean 0.009546
Std Dev 0.9508

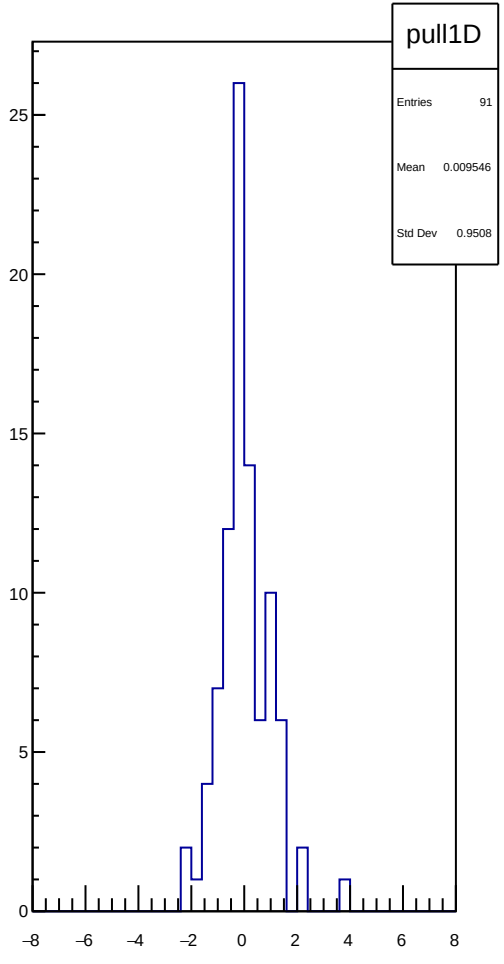

cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 97.84 / 90
p0 1.998e+04 ± 15.11
20400
20200
20000
19800
19600
19400


asym_usr_atr2_avg_cor_correction_mean vs run
χ² / ndf 87.17 / 90
p0 1010 ± 1514
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 63.73
Std Dev 8.812
2
1
0
−1
−2


pull1D
Entries 91
Mean −0.02071
Std Dev 0.9785
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr2_avg_cor_correction_rms vs run
χ² / ndf 4.095e+04 / 90
p0 1399 ± 1.071
2000
1800
1600
1400
1200
1000


eigen_cor_asym_usr_atr2_avg_mean vs run
×10^3
χ² / ndf 82.27 / 90
p0 −3526 ± 2.136e+04
1000
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 91
Mean −222.8
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 91
Mean 0.009546
Std Dev 0.9508
25
20
15
10
5
0
−8
−6
−4
−2
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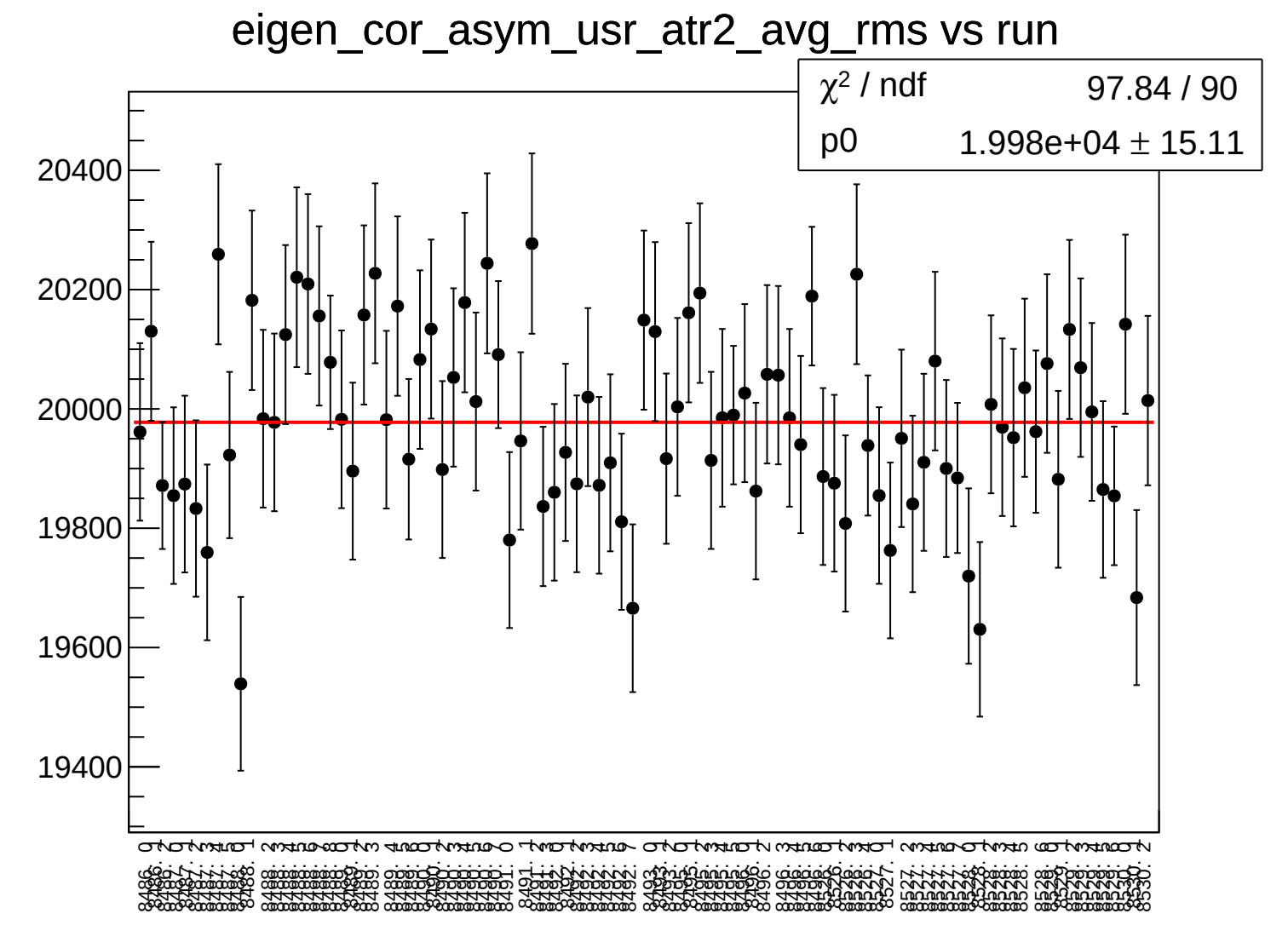
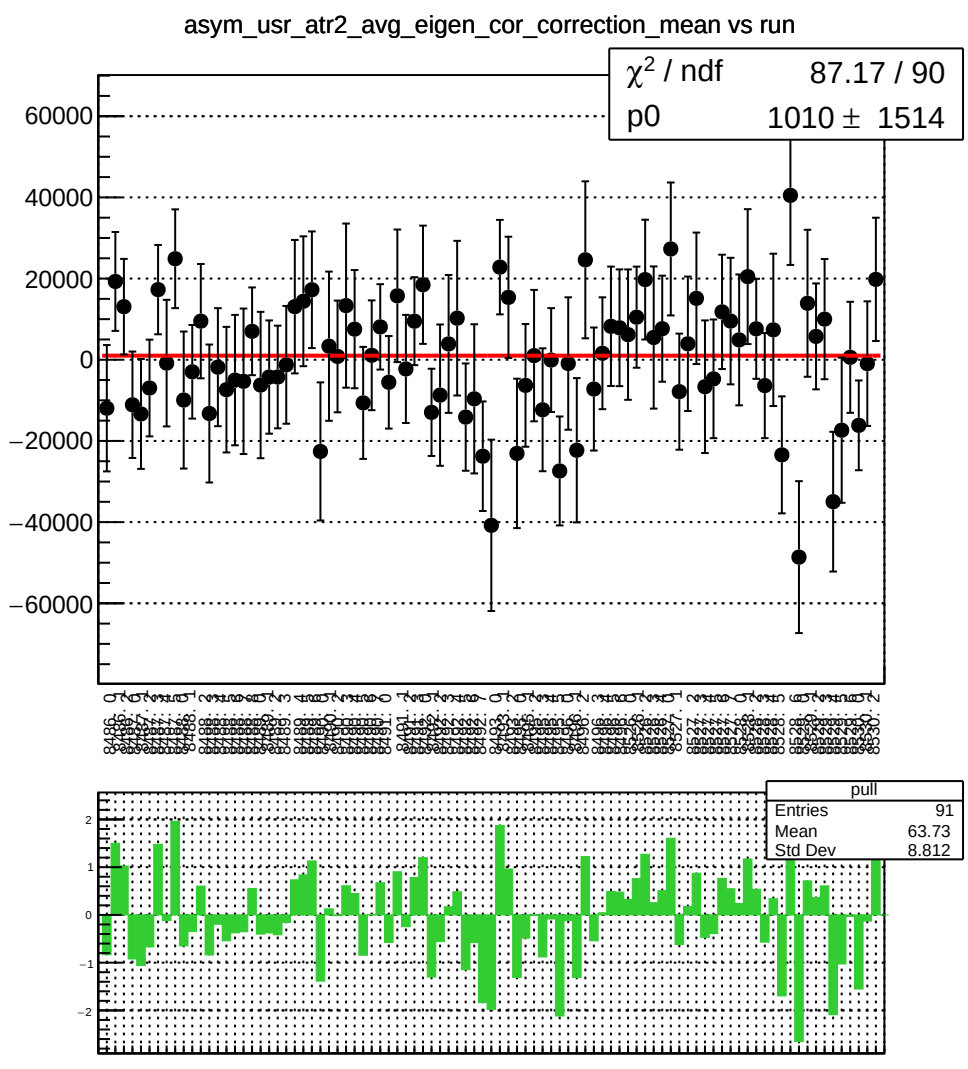
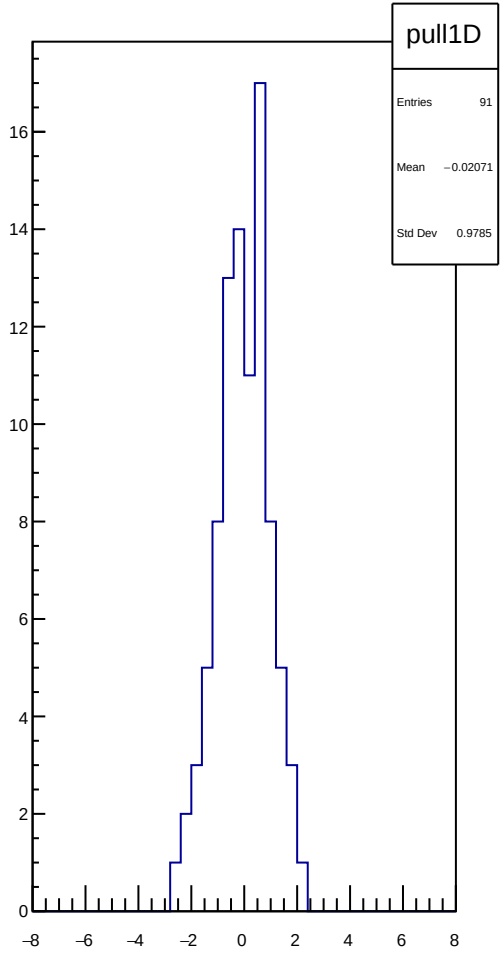
2
4
6
8


eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 97.84 / 90
p0 1.998e+04 ± 15.11
20400
20200
20000
19800
19600
19400


asym_usr_atr2_avg_eigen_cor_correction_mean vs run
χ² / ndf 87.17 / 90
p0 1010 ± 1514
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 63.73
Std Dev 8.812
2
1
0
−1
−2


pull1D
Entries 91
Mean −0.02071
Std Dev 0.9785
16
14
12
10
8
6
4
2
0
−8
−6
−4
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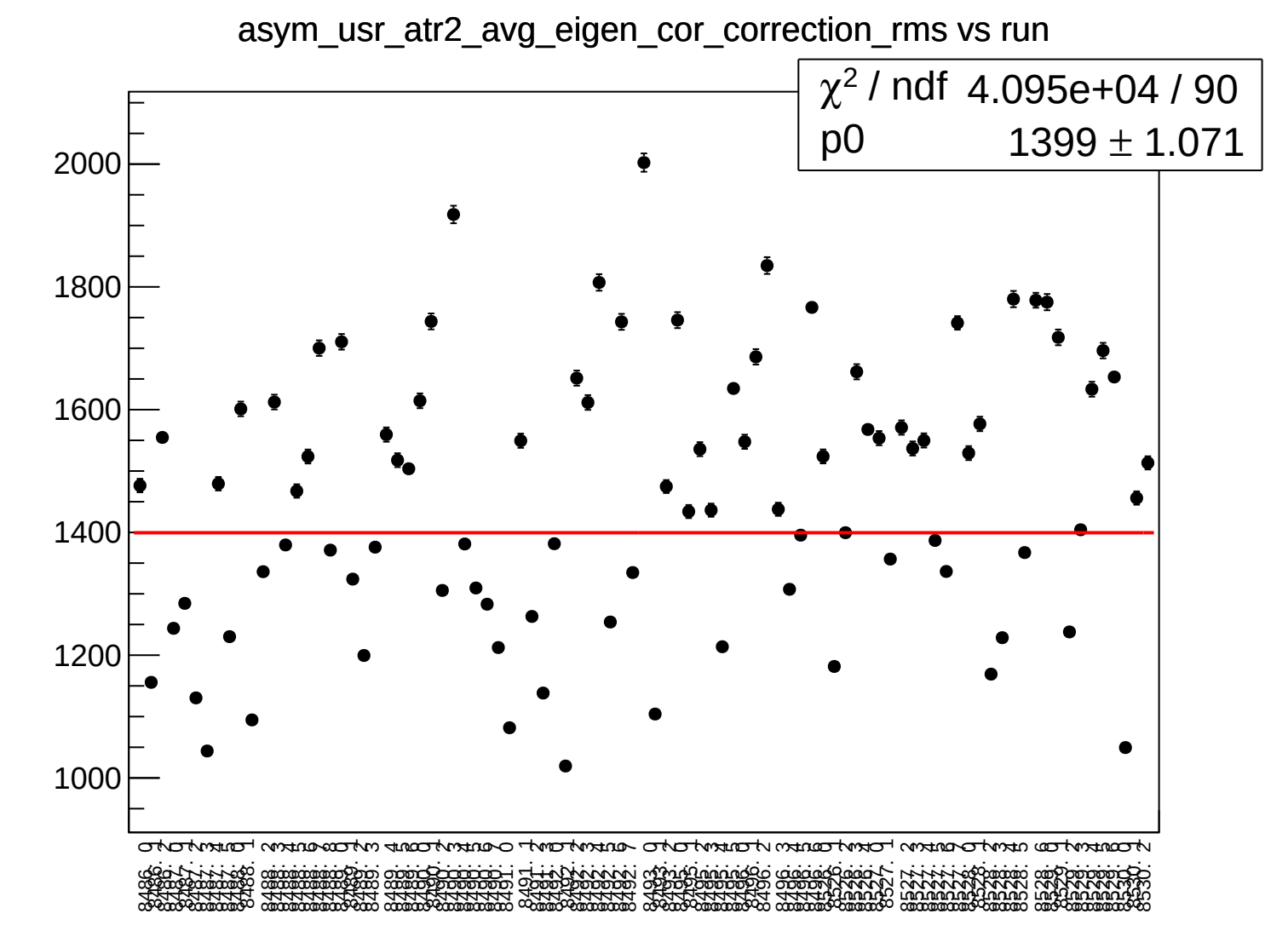
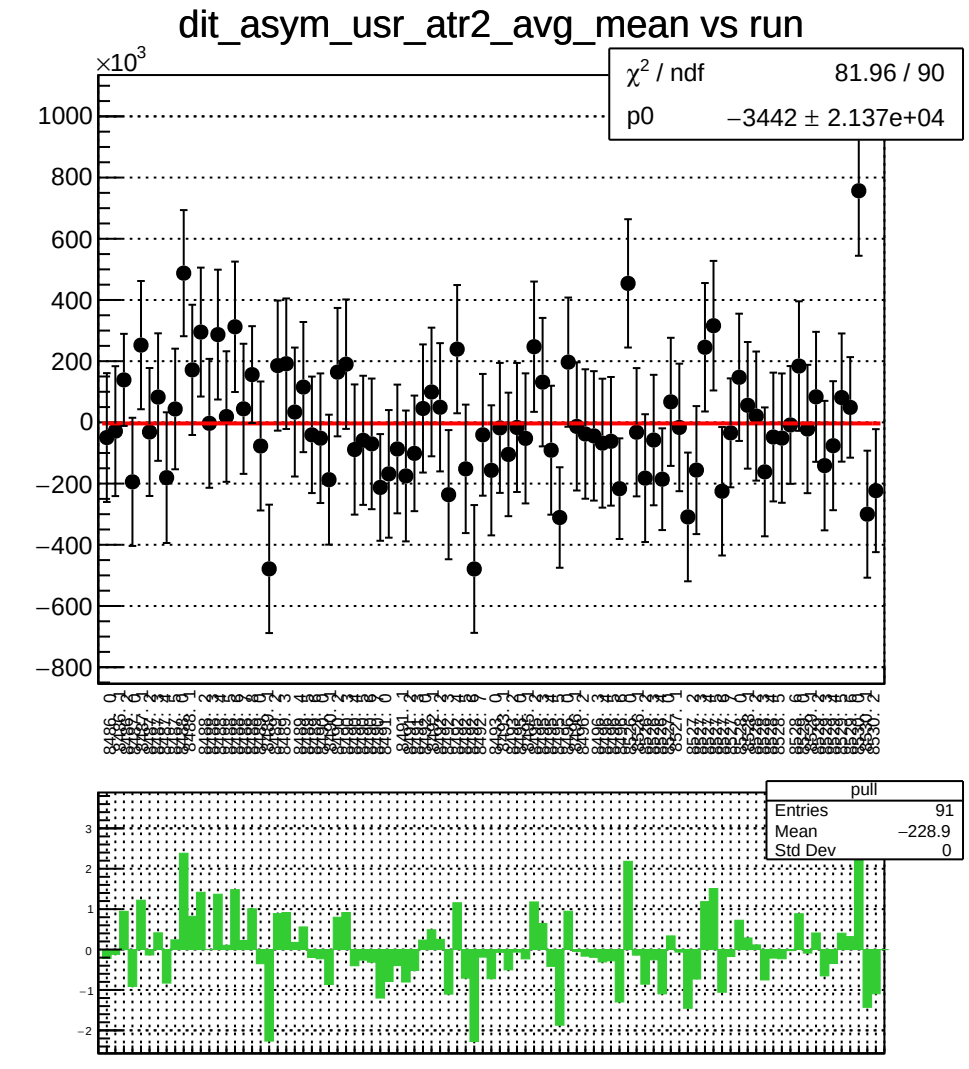
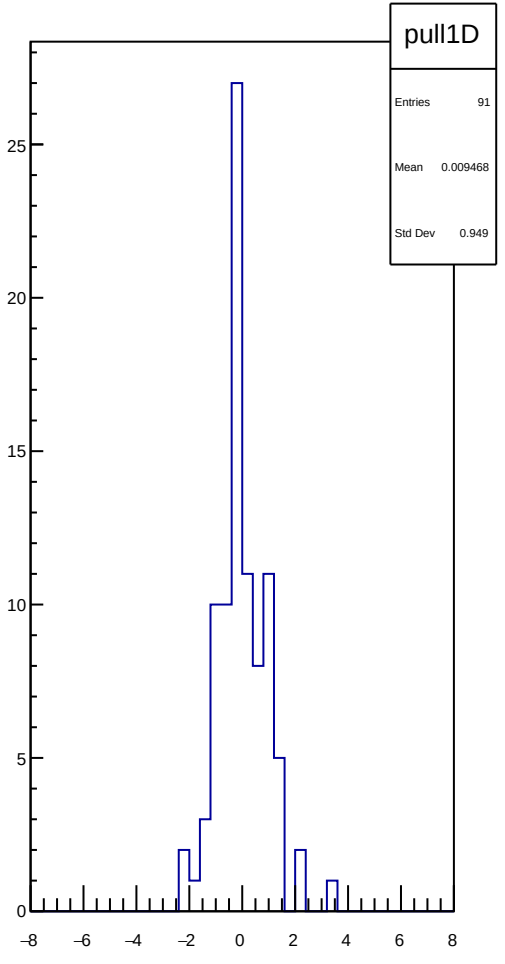
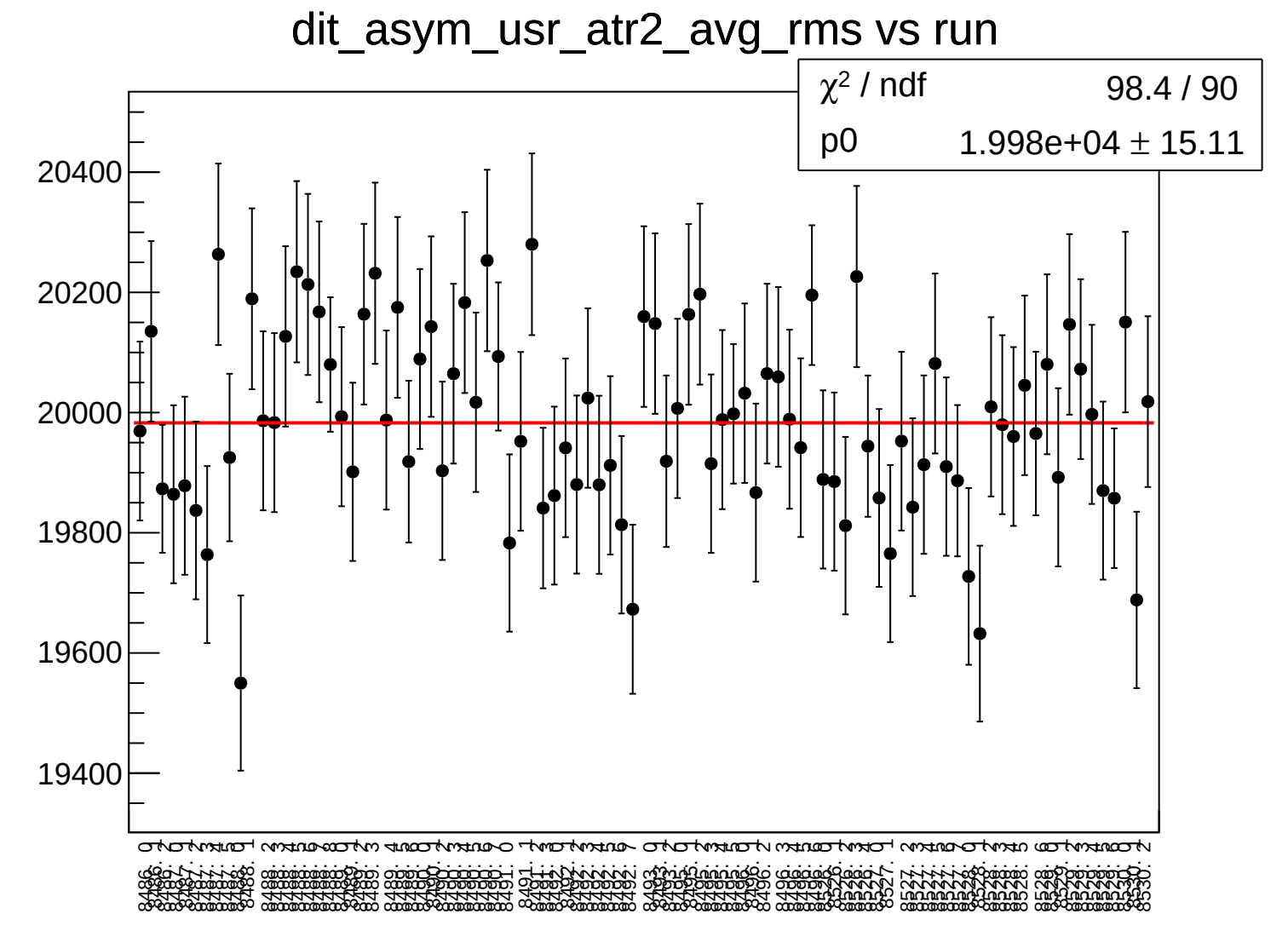
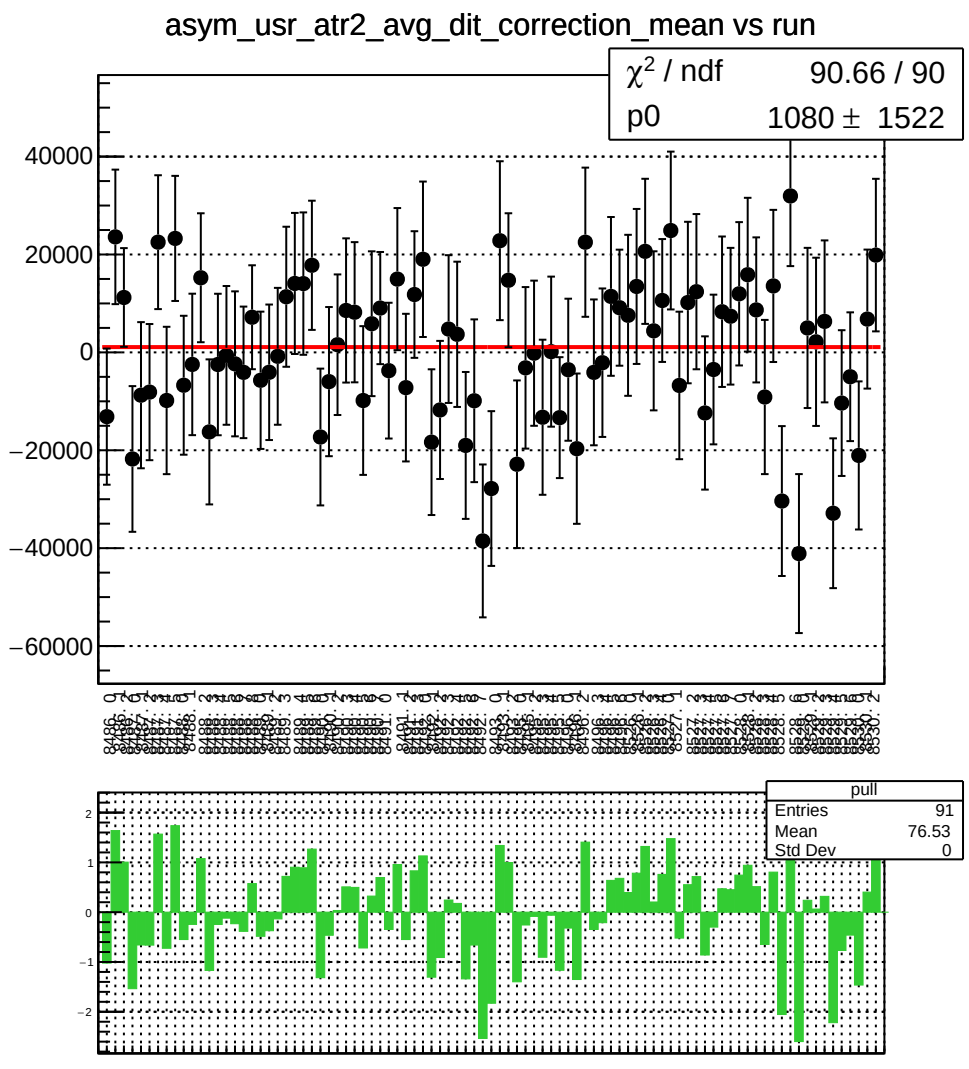
0
2
4
6
8

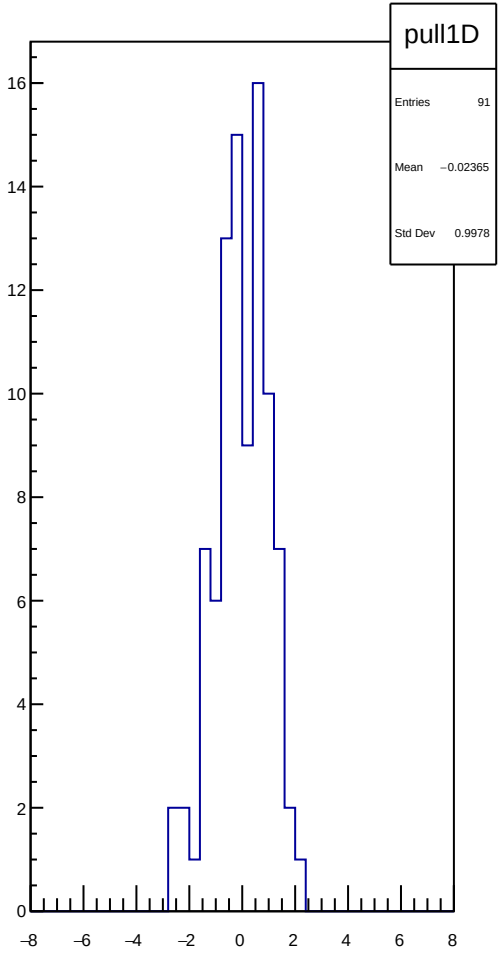

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ² / ndf 4.095e+04 / 90
p0 1399 ± 1.071
2000
1800
1600
1400
1200
1000

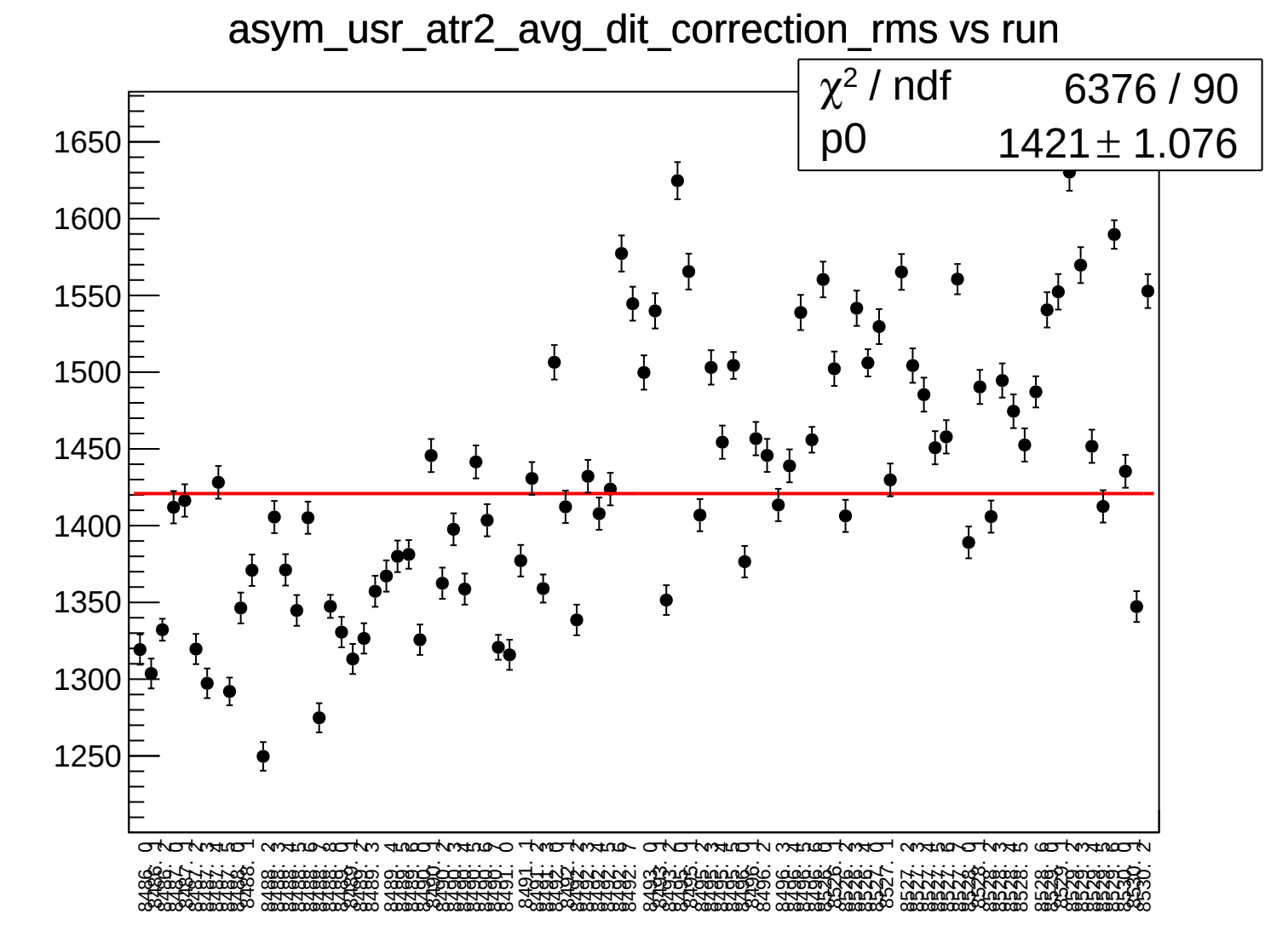

dit_asym_usr_atr2_avg_mean vs run
×10^3
χ² / ndf 81.96 / 90
p0 −3442 ± 2.137e+04
pull
Entries 91
Mean −228.9
Std Dev 0

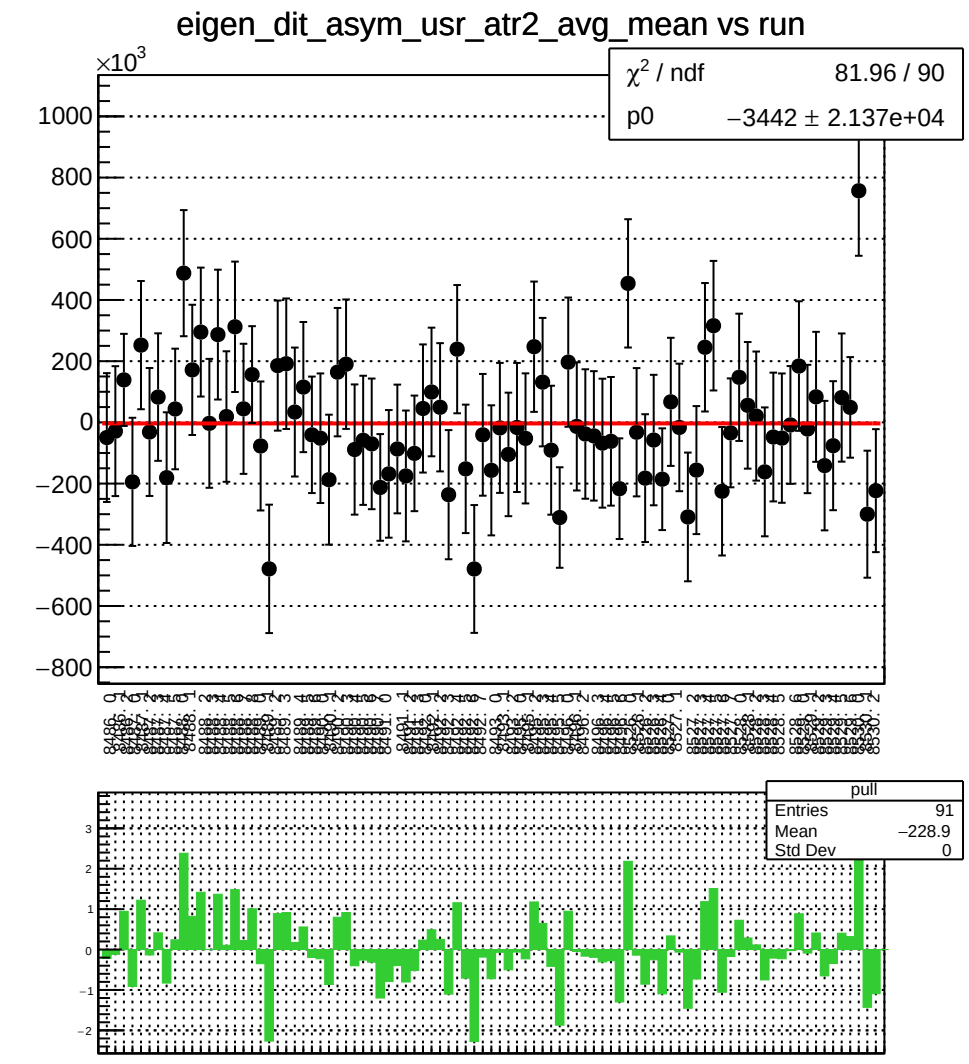

pull1D
Entries 91
Mean 0.009468
Std Dev 0.949

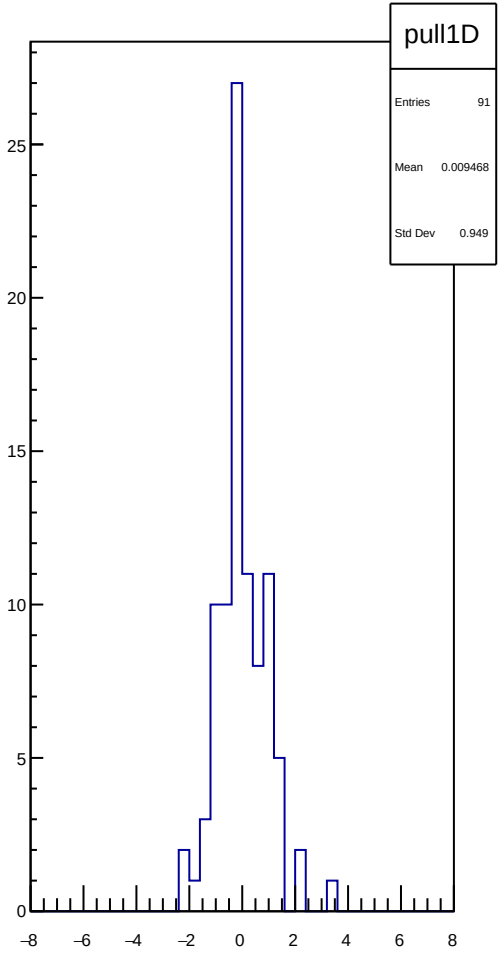

dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 98.4 / 90
p0 1.998e+04 ± 15.11
20400
20200
20000
19800
19600
19400

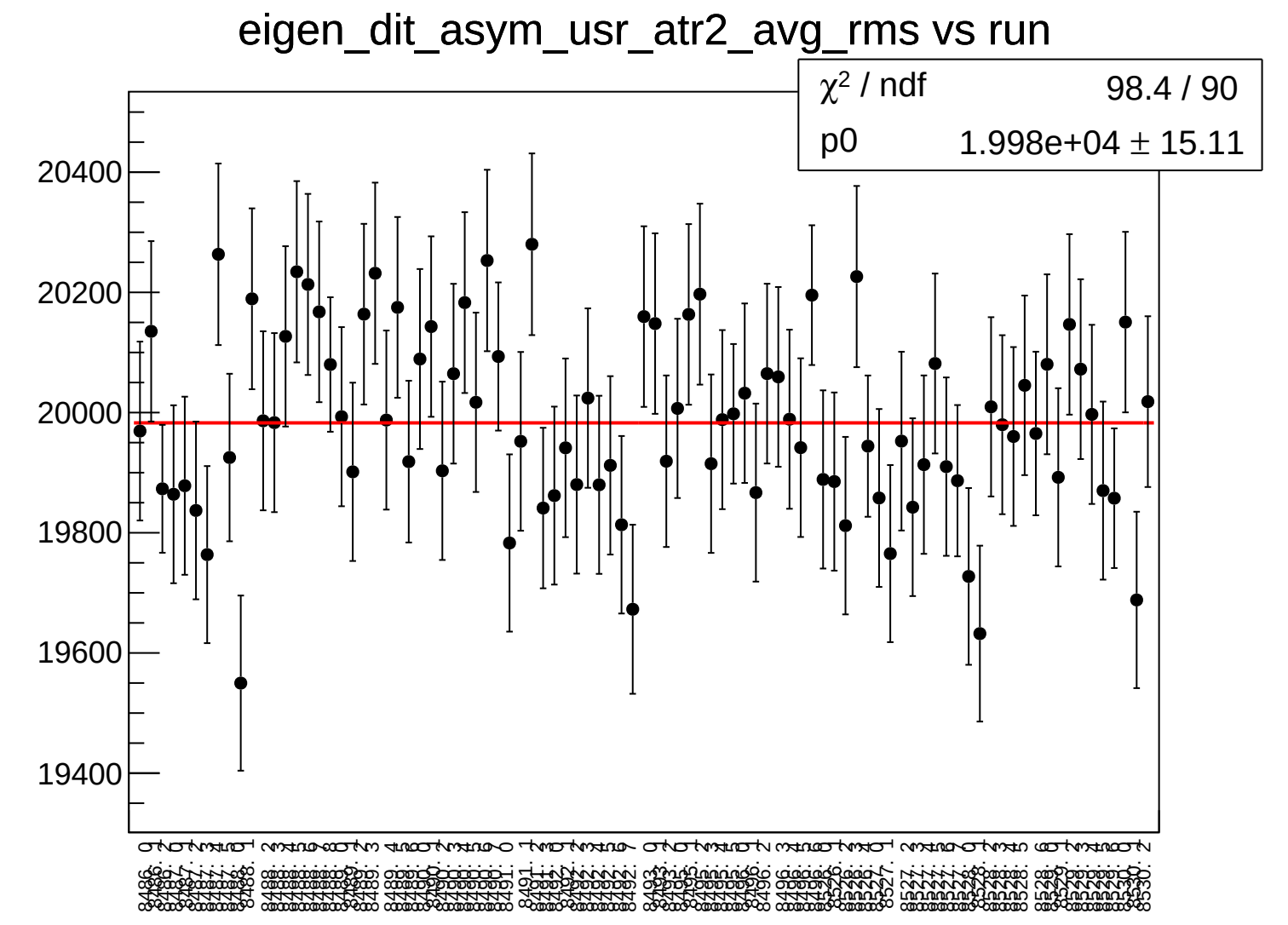

asym_usr_atr2_avg_dit_correction_mean vs run
χ² / ndf 90.66 / 90
p0 1080 ± 1522
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 76.53
Std Dev 0
2
1
0
−1
−2

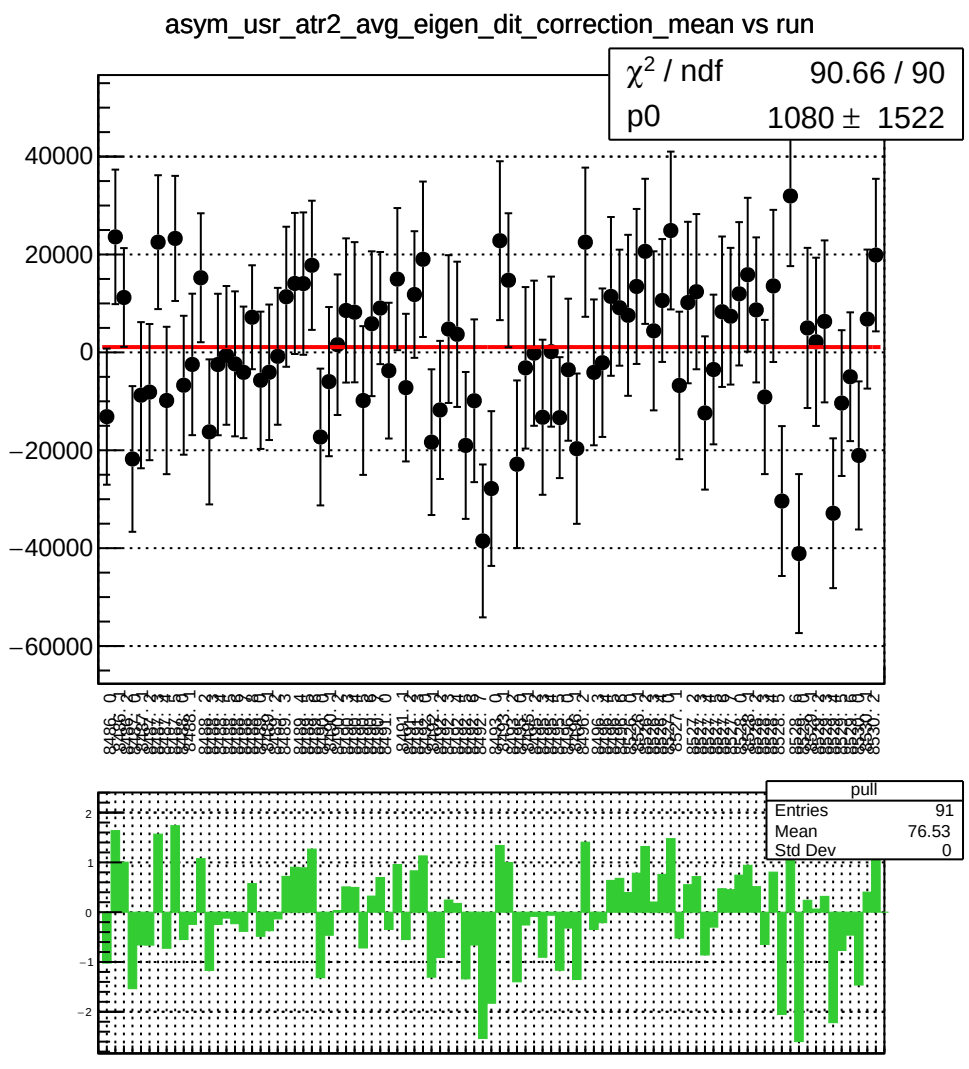

pull1D
Entries 91
Mean −0.02365
Std Dev 0.9978
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

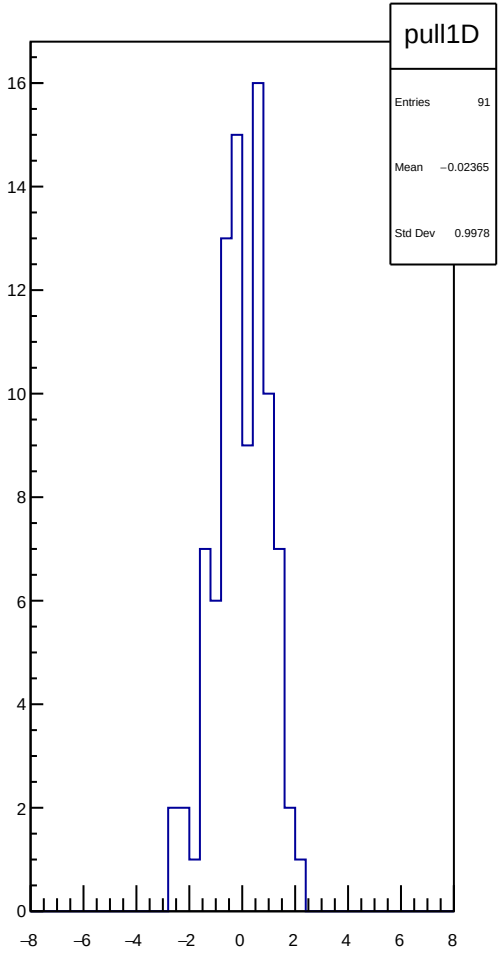

asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 6376 / 90
p0 1421 ± 1.076
1650
1600
1550
1500
1450
1400
1350
1300
1250

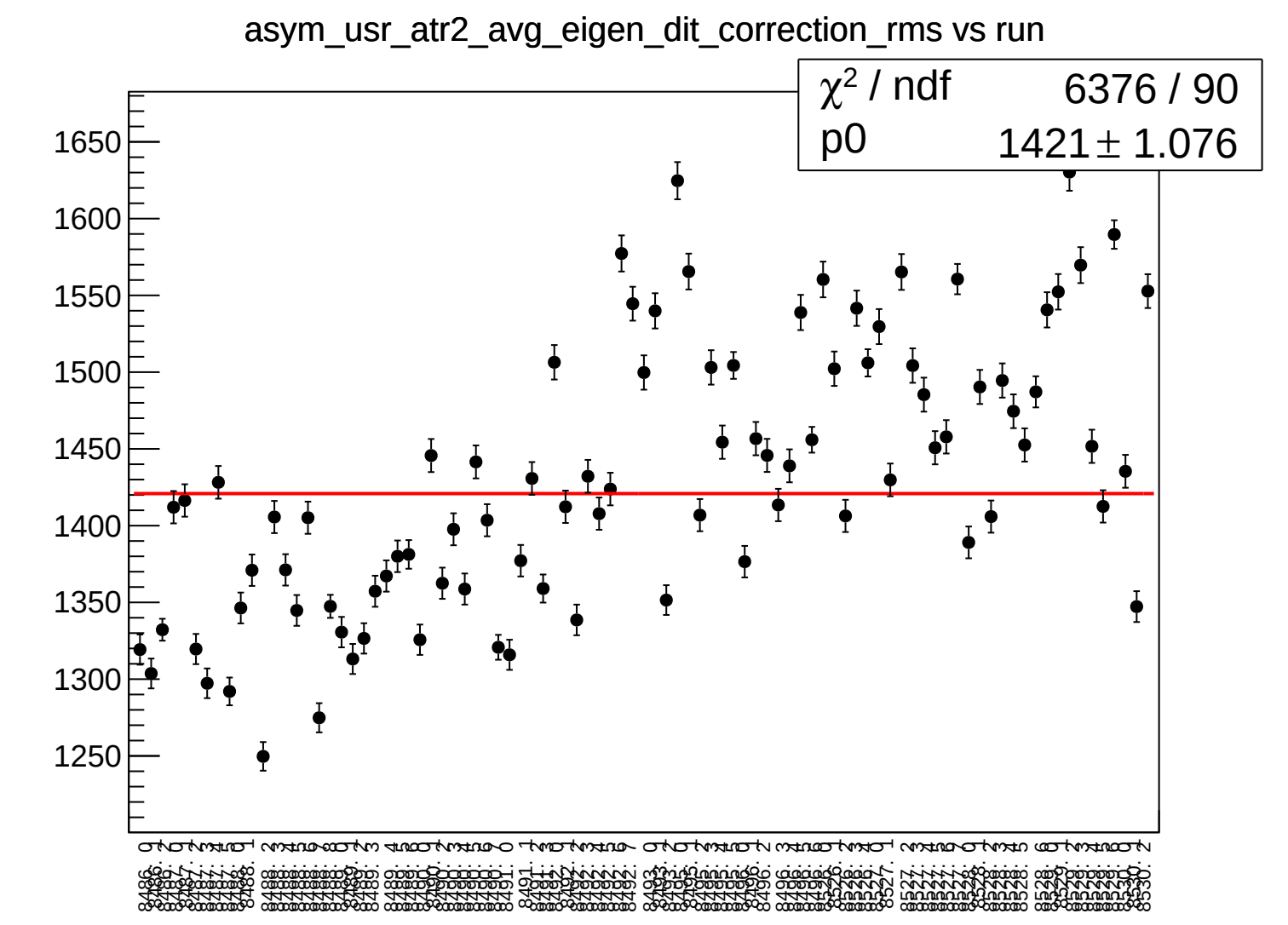

eigen_dit_asym_usr_atr2_avg_mean vs run
×10^3
χ² / ndf 81.96 / 90
p0 −3442 ± 2.137e+04
1000
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 91
Mean −228.9
Std Dev 0
3
2
1
0
−1
−2

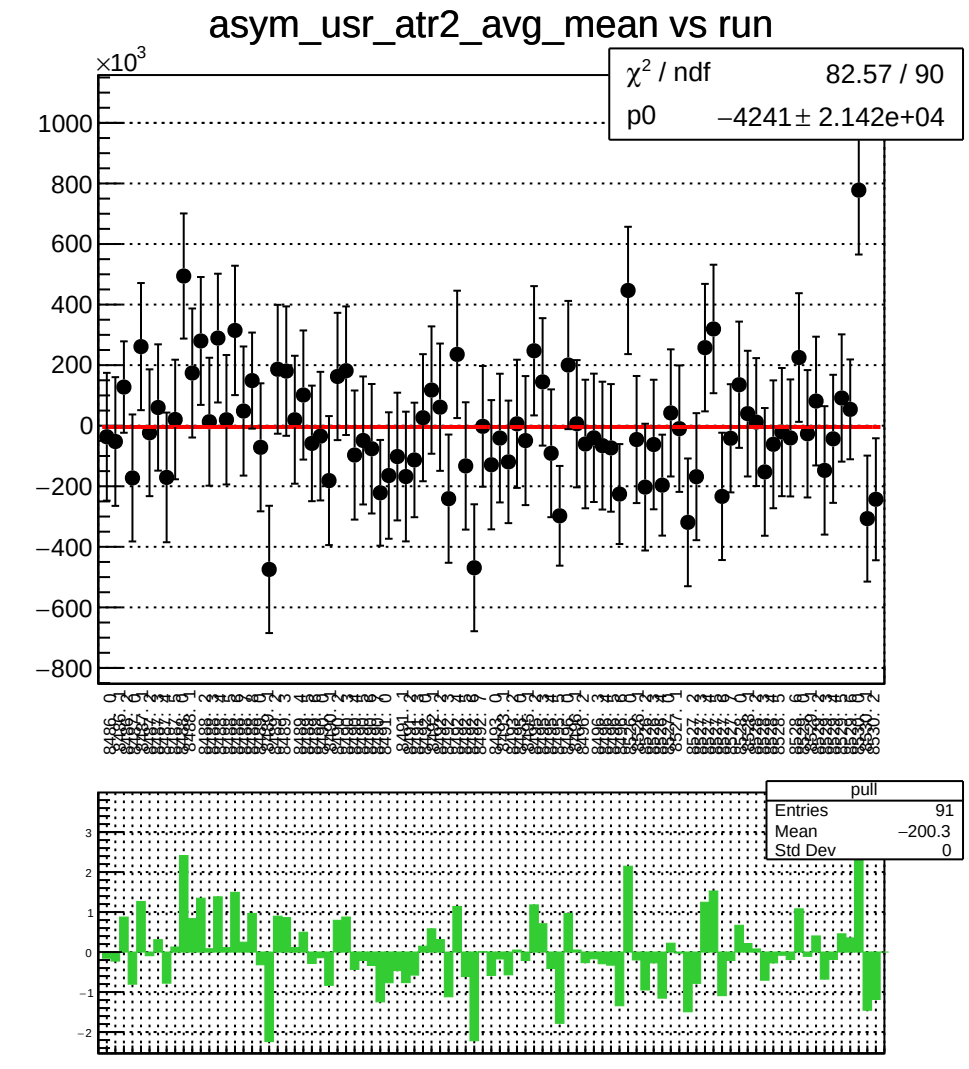

pull1D
Entries 91
Mean 0.009468
Std Dev 0.949
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

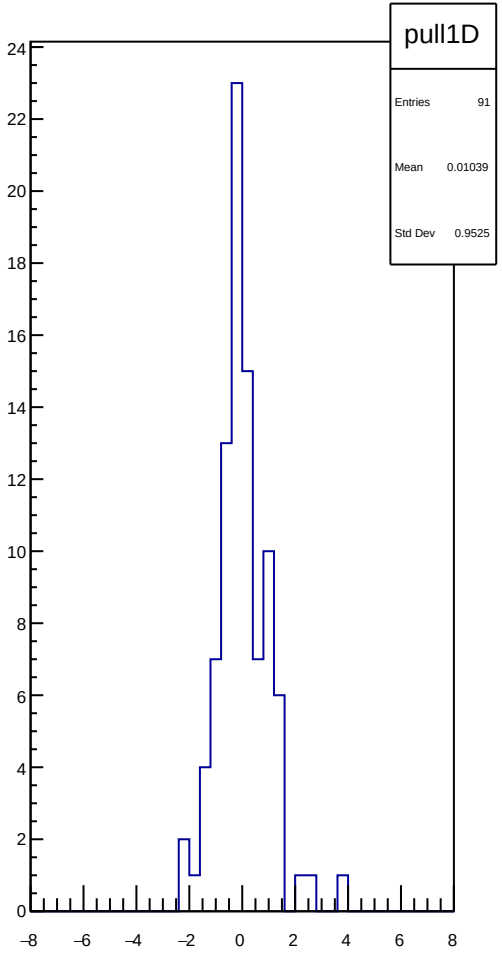

eigen_dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 98.4 / 90
p0 1.998e+04 ± 15.11
20400
20200
20000
19800
19600
19400

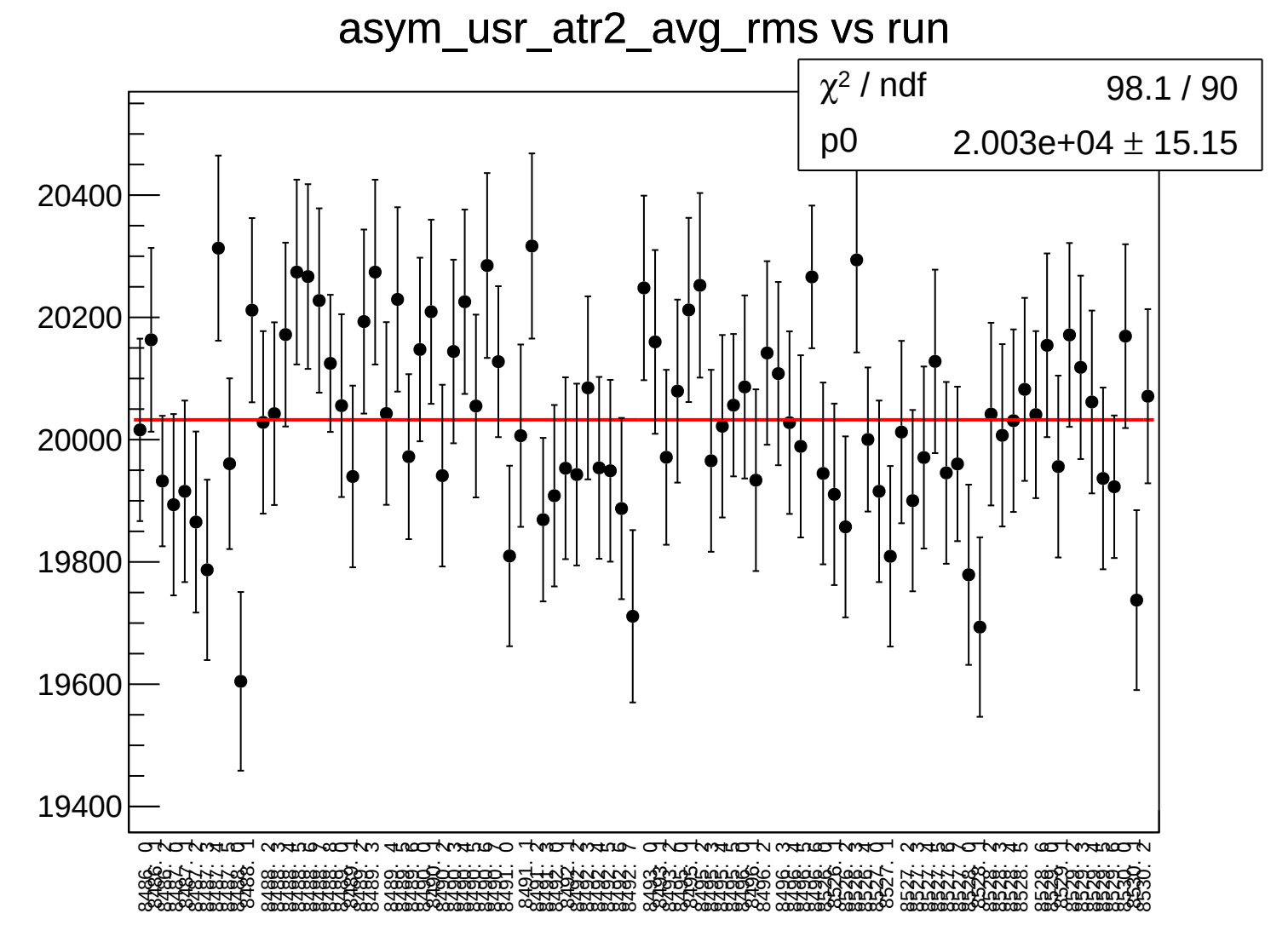

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
χ² / ndf 90.66 / 90
p0 1080 ± 1522
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 76.53
Std Dev 0
2
1
0
−1
−2

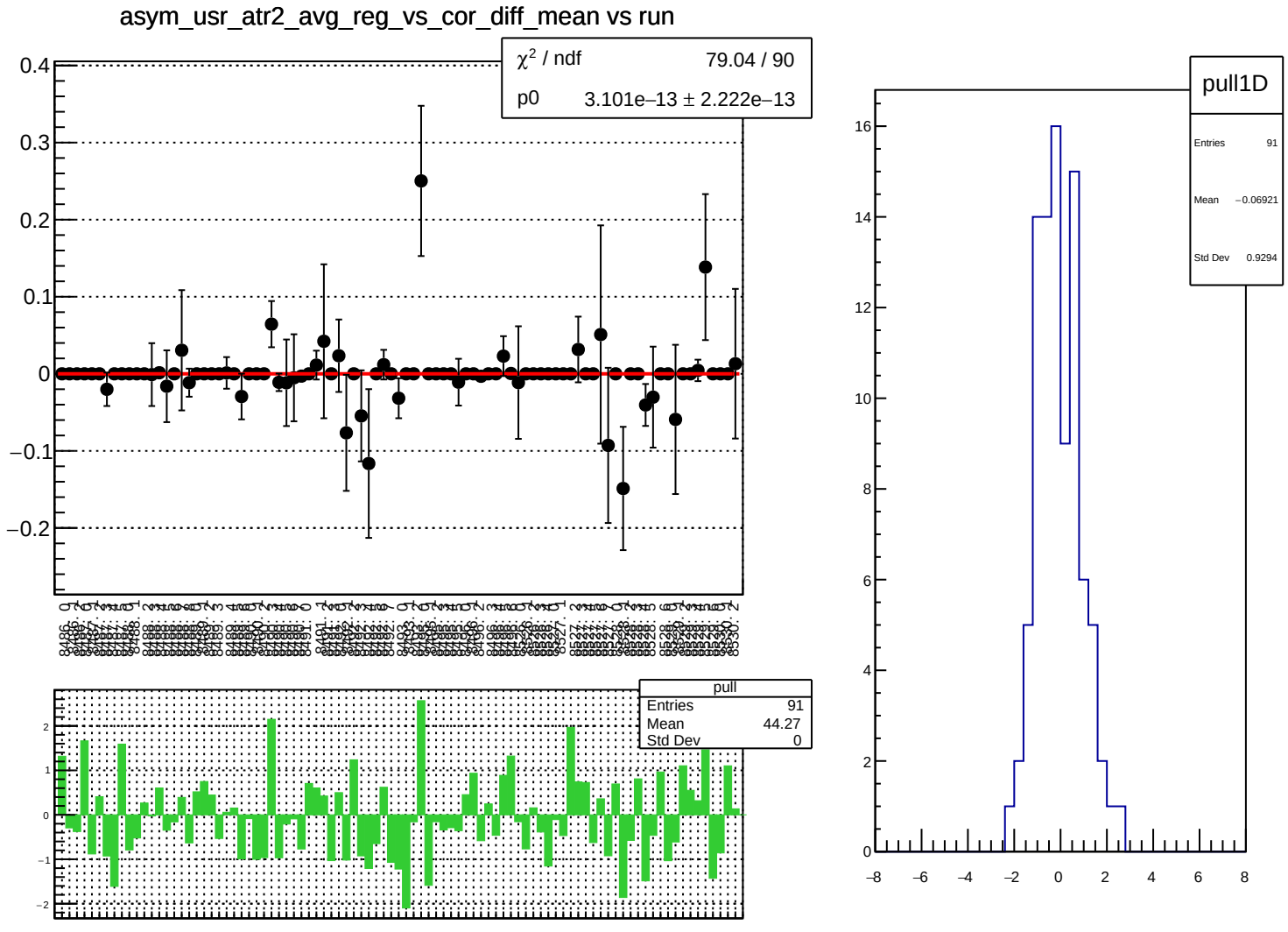

pull1D
Entries 91
Mean −0.02365
Std Dev 0.9978
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

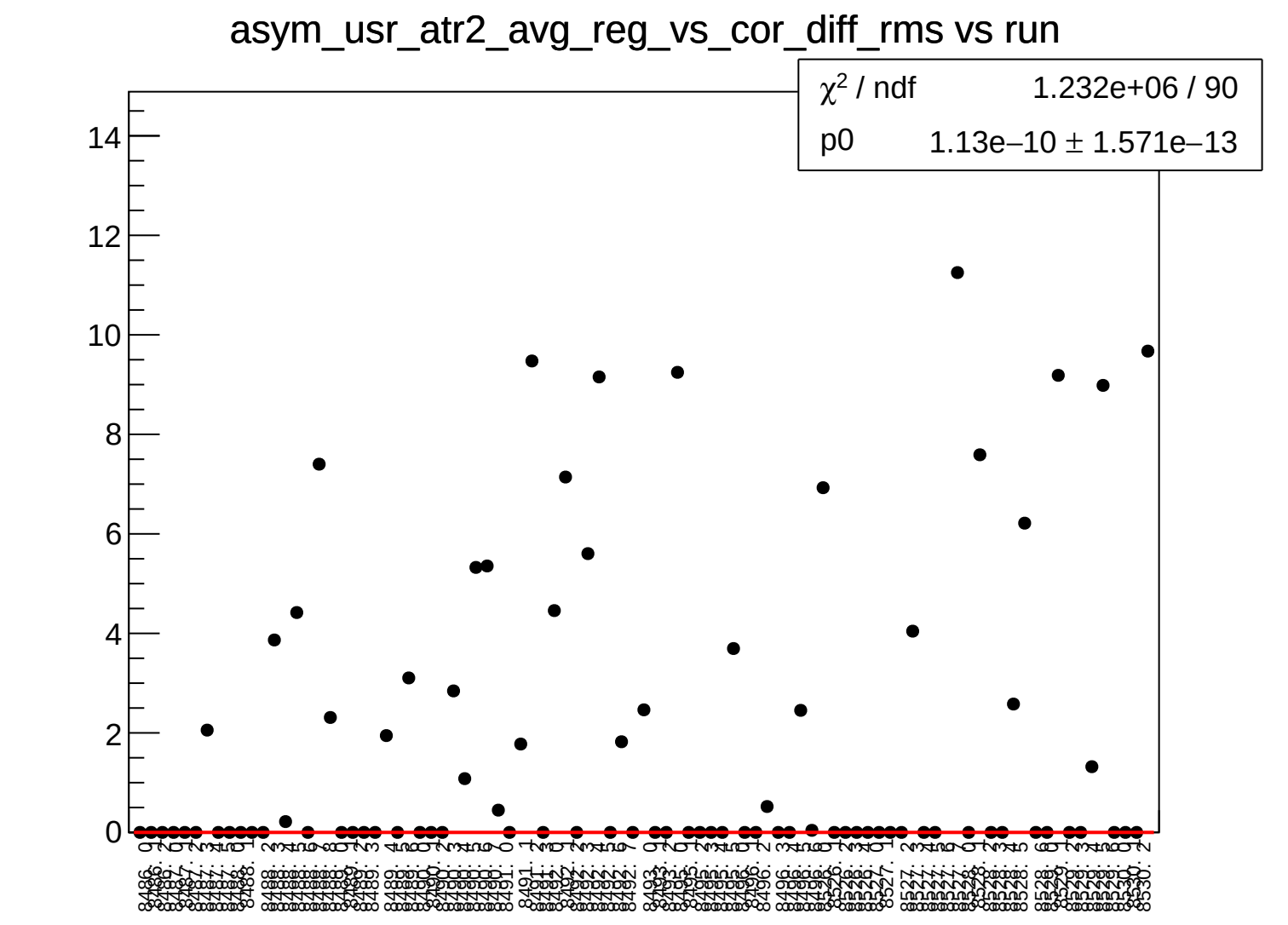

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 6376 / 90
p0 1421 ± 1.076
1650
1600
1550
1500
1450
1400
1350
1300
1250

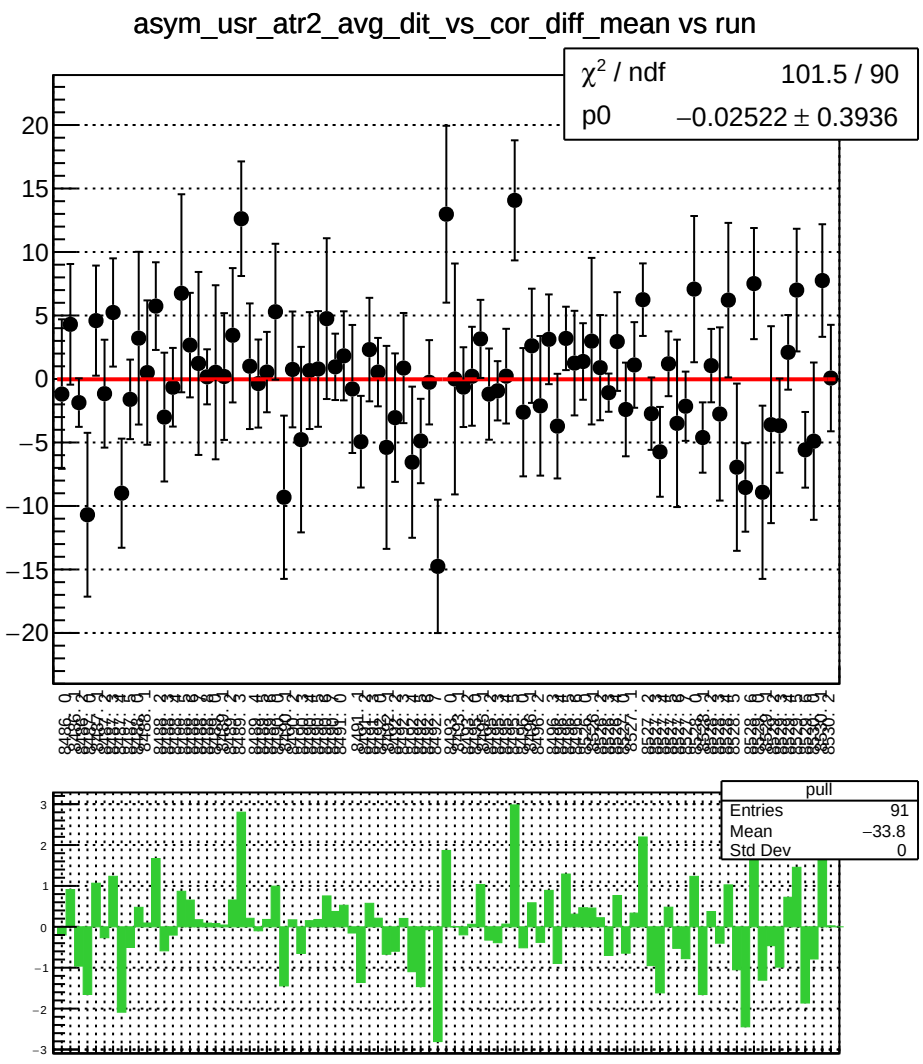

asym_usr_atr2_avg_mean vs run
×10^3
χ² / ndf 82.57 / 90
p0 −4241 ± 2.142e+04
pull
Entries 91
Mean −200.3
Std Dev 0

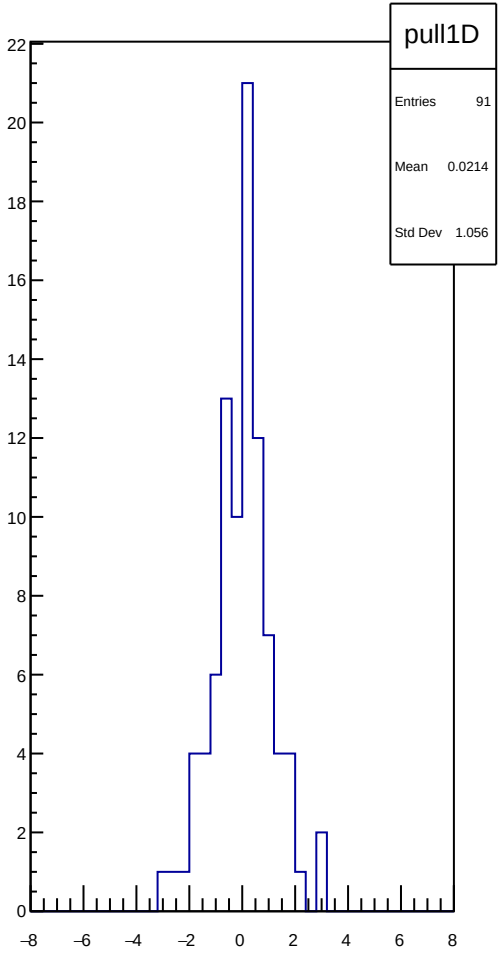

pull1D
Entries 91
Mean 0.01039
Std Dev 0.9525

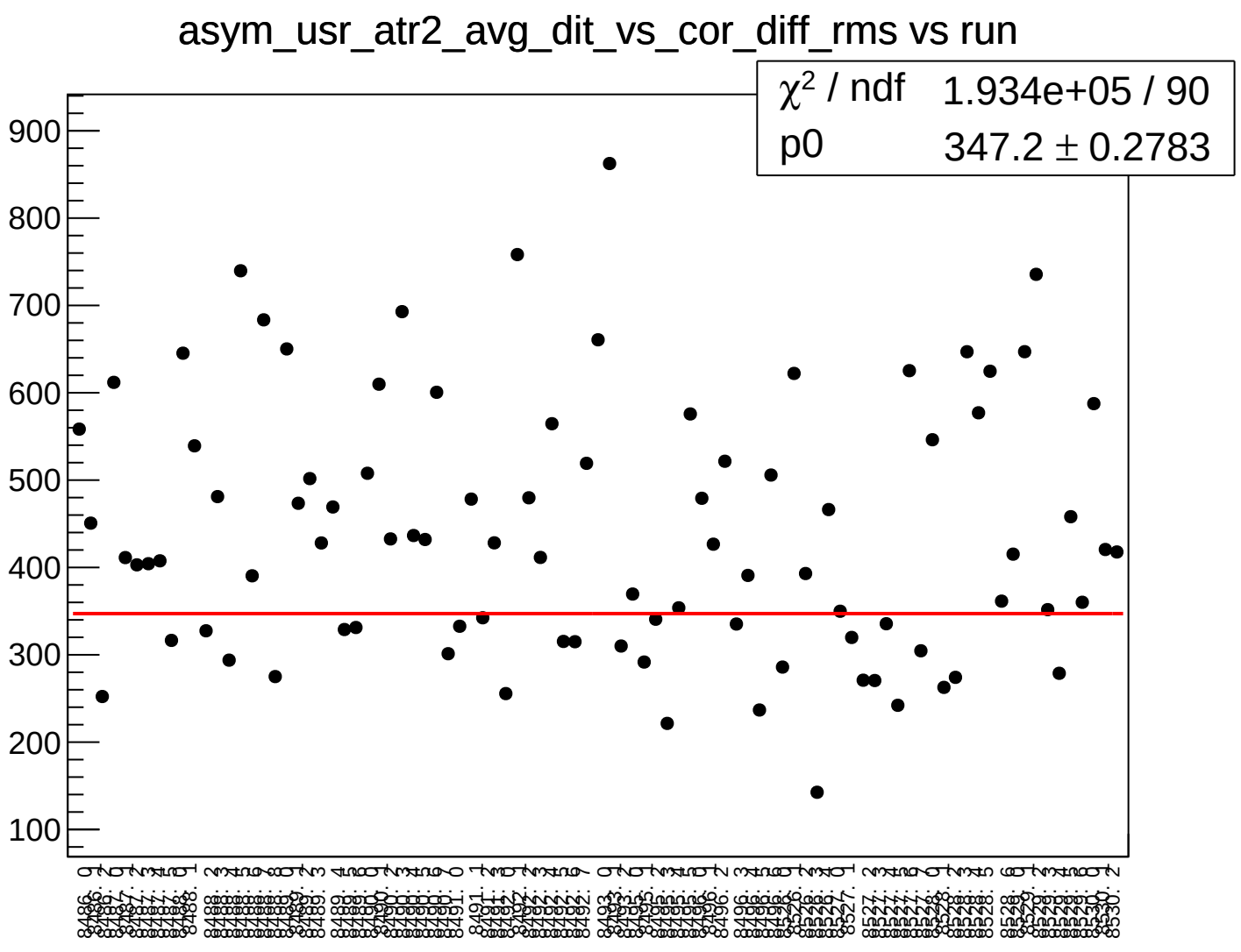

asym_usr_atr2_avg_rms vs run
χ² / ndf 98.1 / 90
p0 2.003e+04 ± 15.15
20400
20200
20000
19800
19600
19400

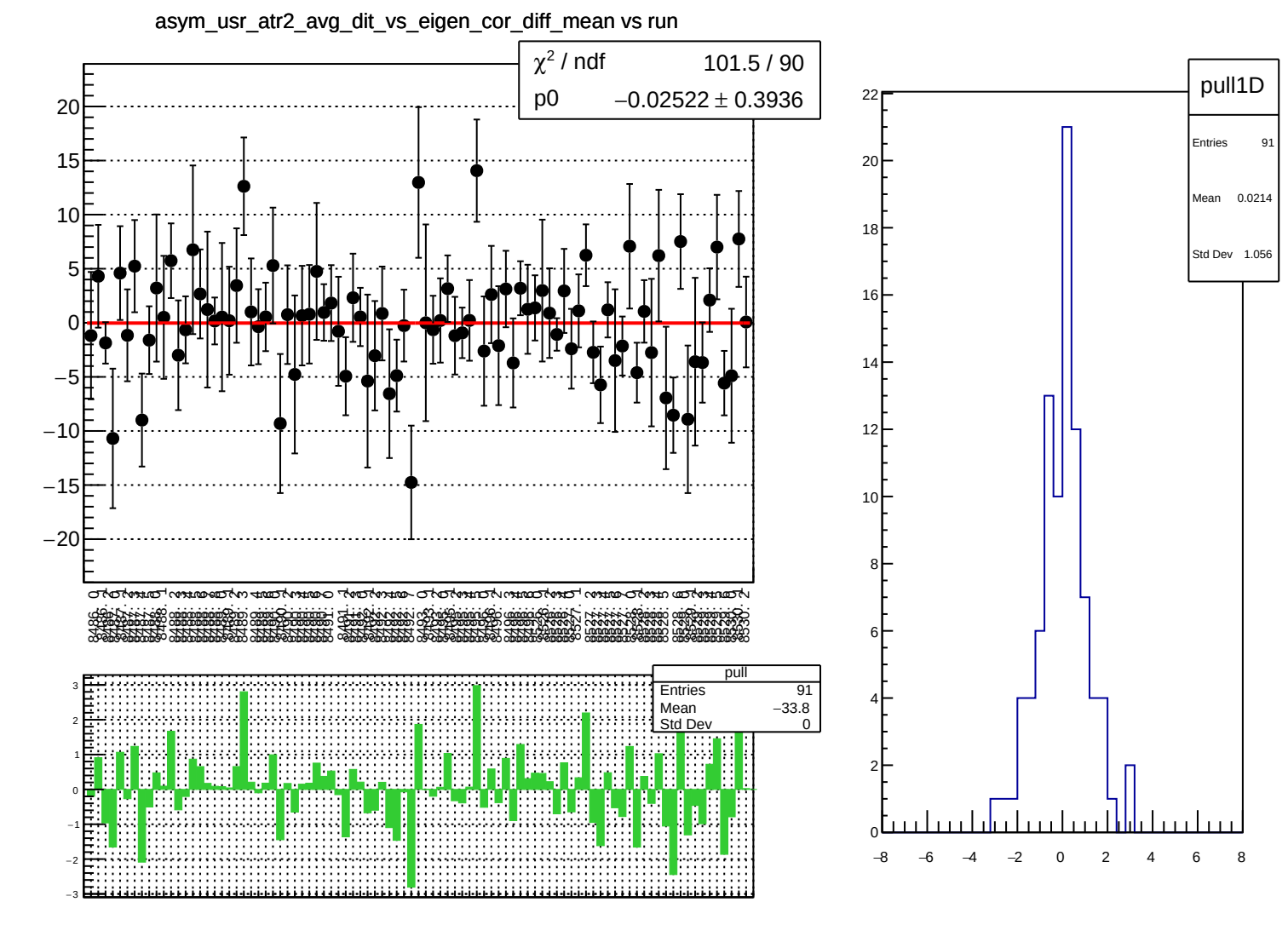

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 79.04 / 90
p0 3.101e−13 ± 2.222e−13
0.4
0.3
0.2
0.1
0
−0.1
−0.2
pull
Entries 91
Mean 44.27
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.06921
Std Dev 0.9294
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

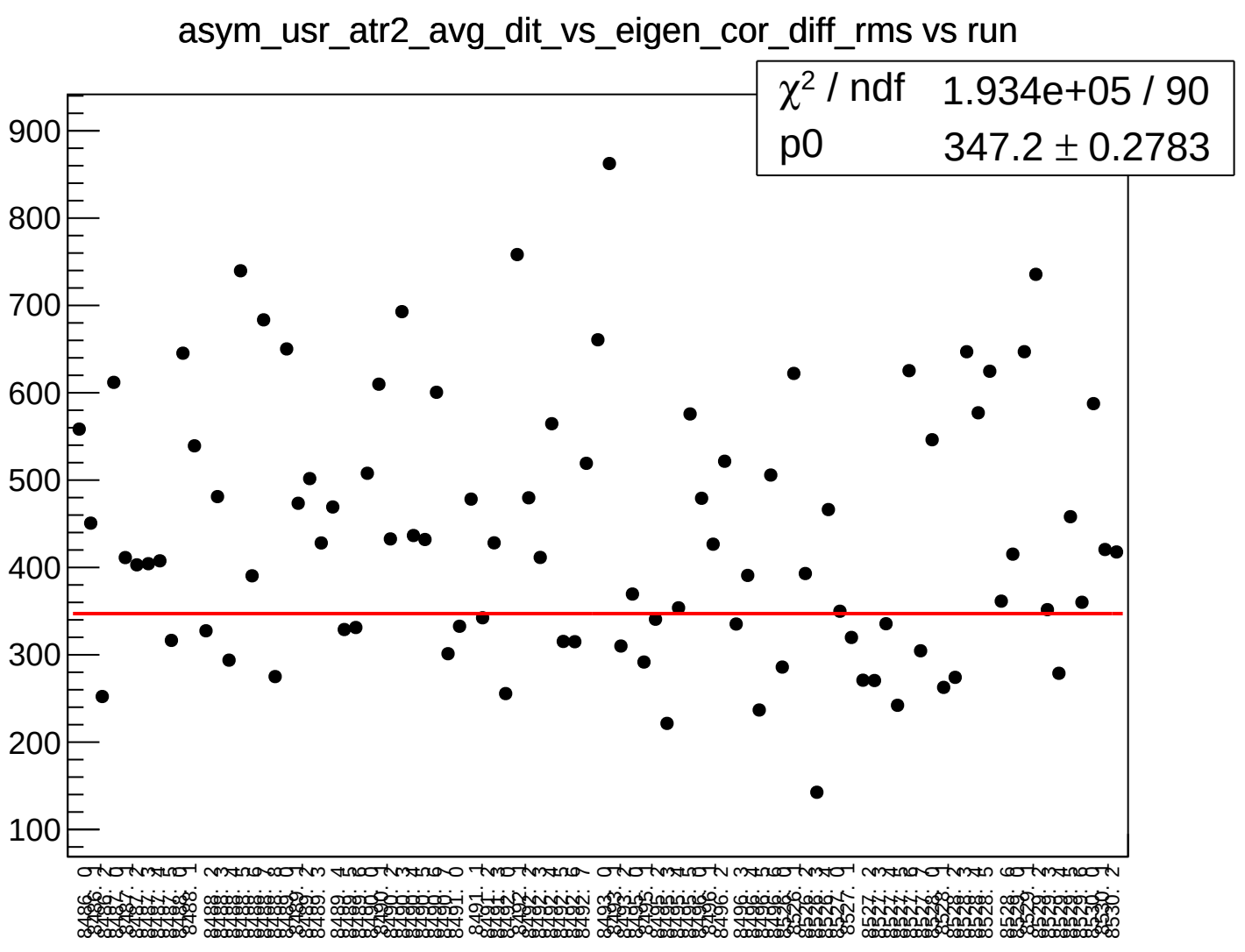

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.232e+06 / 90
p0 1.13e−10 ± 1.571e−13
0
2
4
6
8
10
12
14

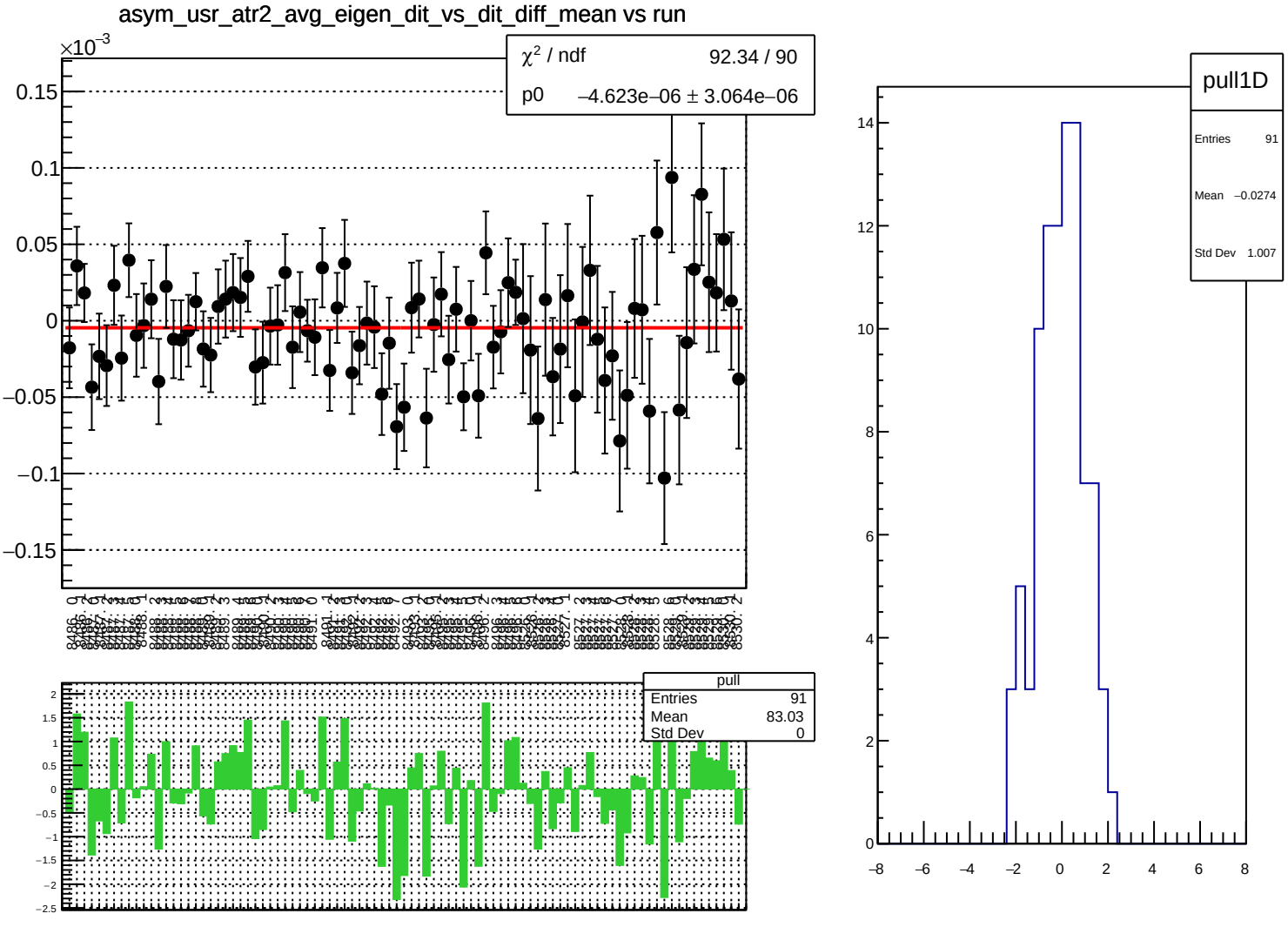

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 101.5 / 90
p0 −0.02522 ± 0.3936
pull
Entries 91
Mean −33.8
Std Dev 0

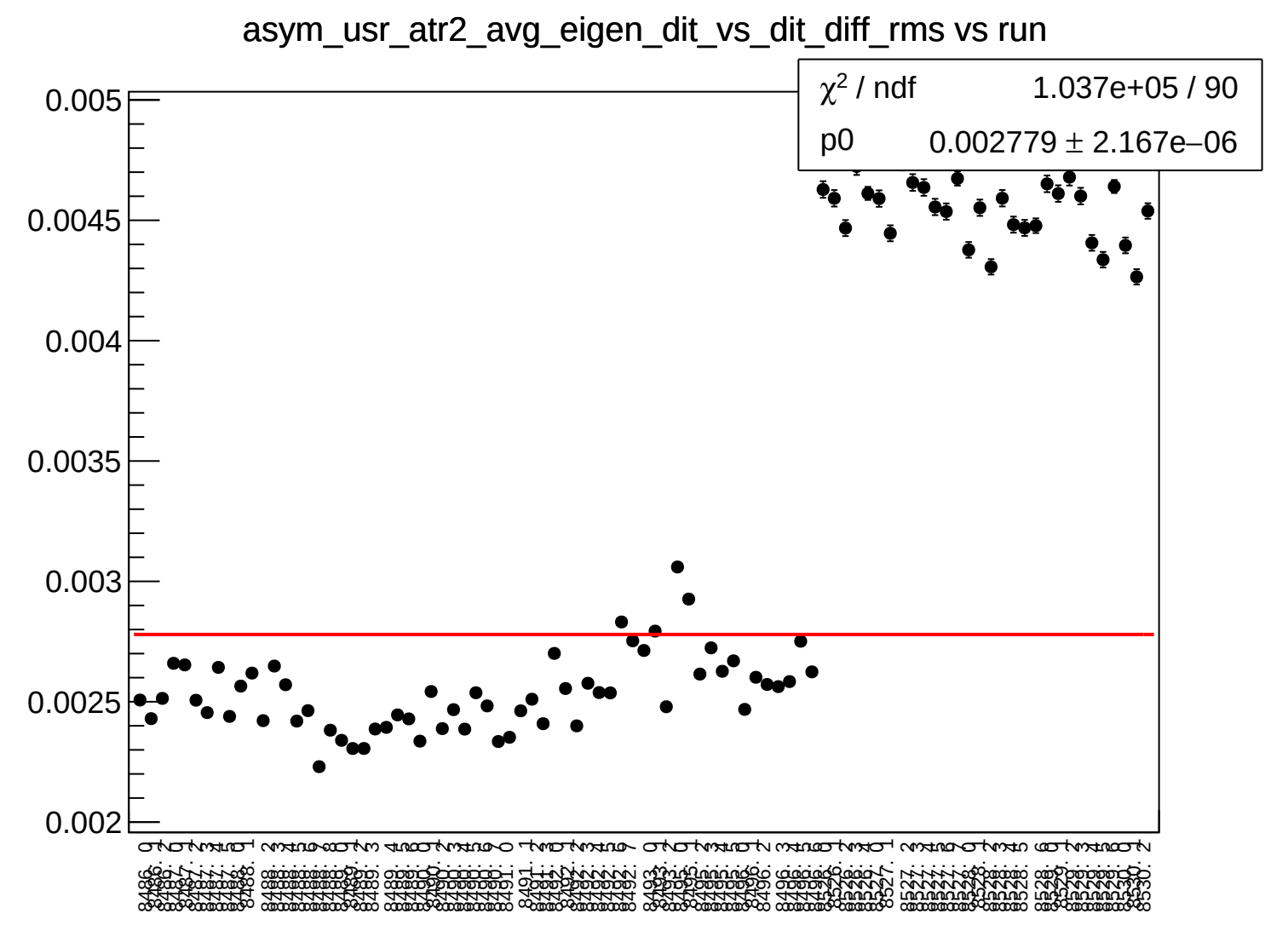

pull1D
Entries 91
Mean 0.0214
Std Dev 1.056

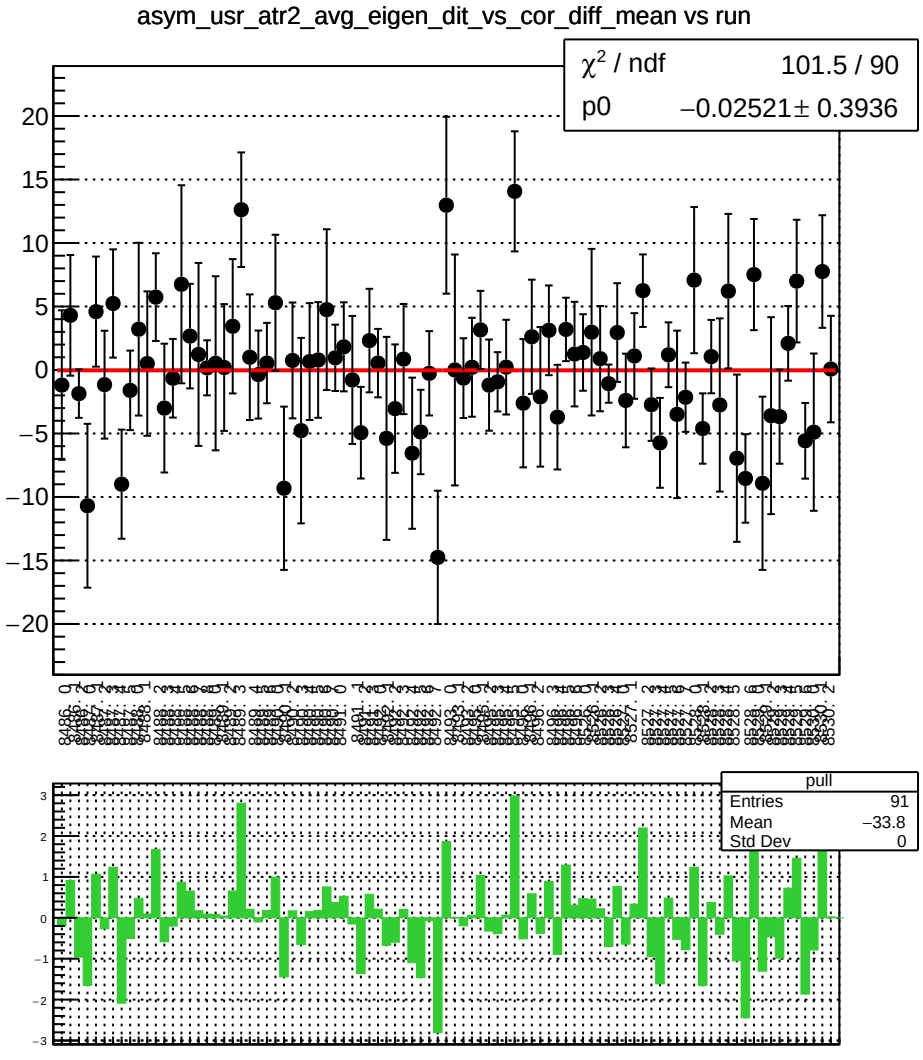

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.934e+05 / 90
p0 347.2 ± 0.2783
900
800
700
600
500
400
300
200
100

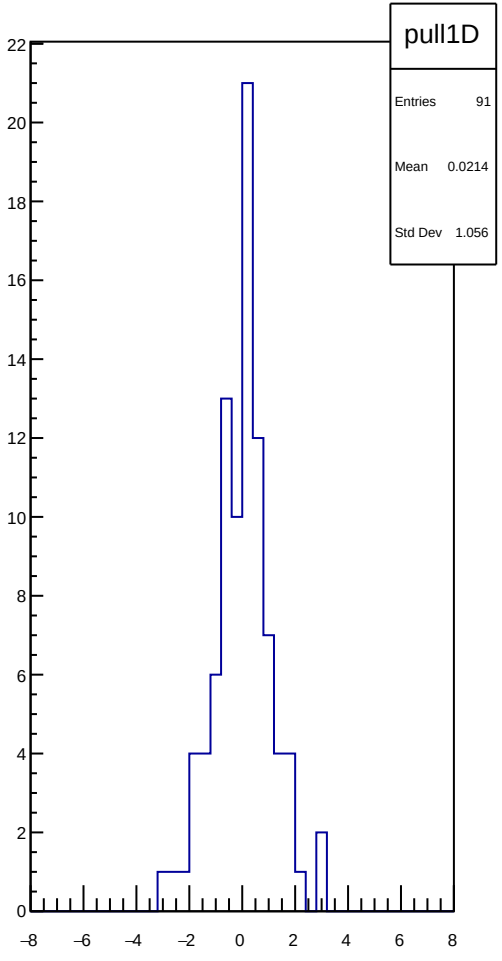

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.5 / 90
p0 −0.02522 ± 0.3936
pull
Entries 91
Mean −33.8
Std Dev 0
pull1D
Entries 91
Mean 0.0214
Std Dev 1.056

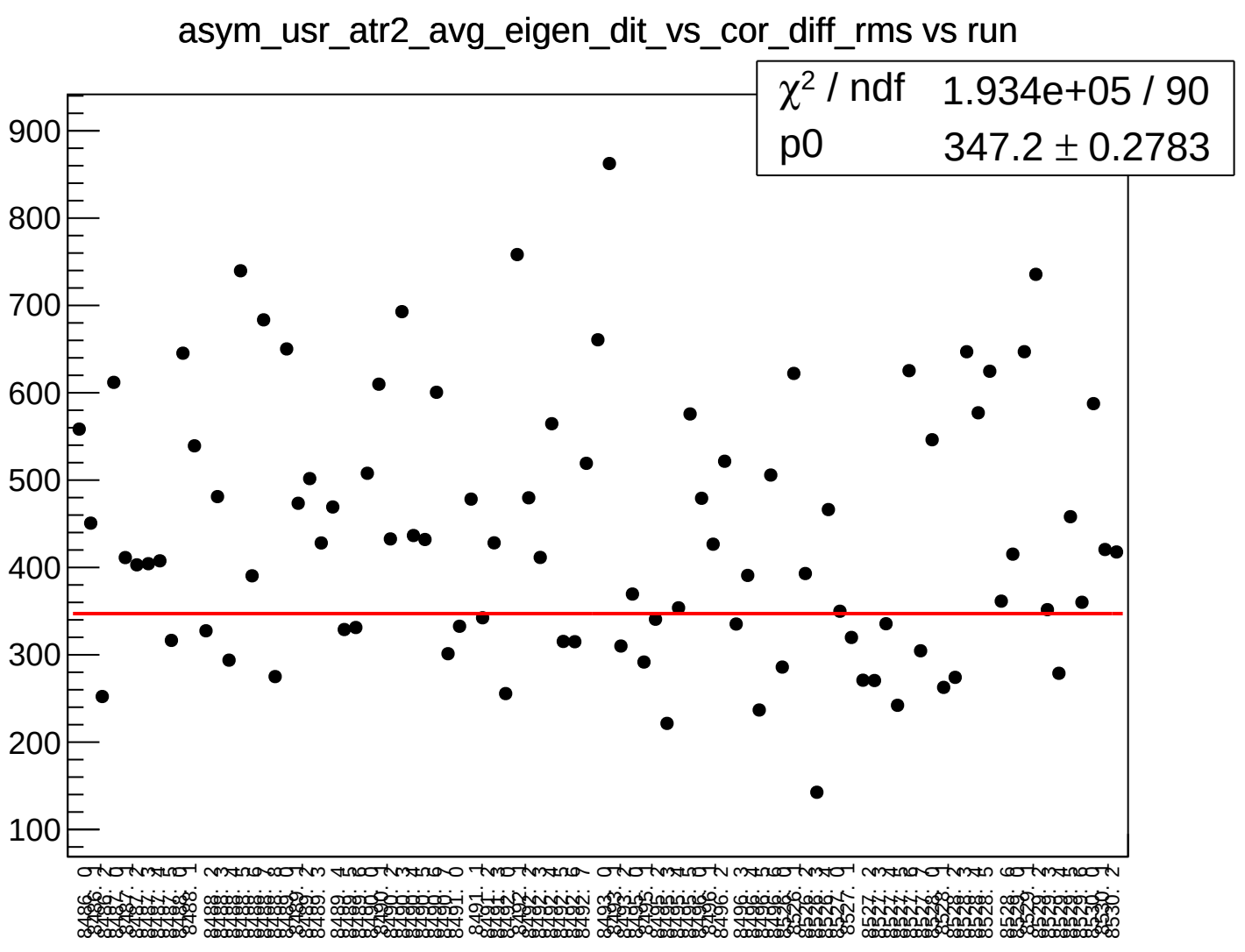

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.934e+05 / 90
p0 347.2 ± 0.2783
900
800
700
600
500
400
300
200
100

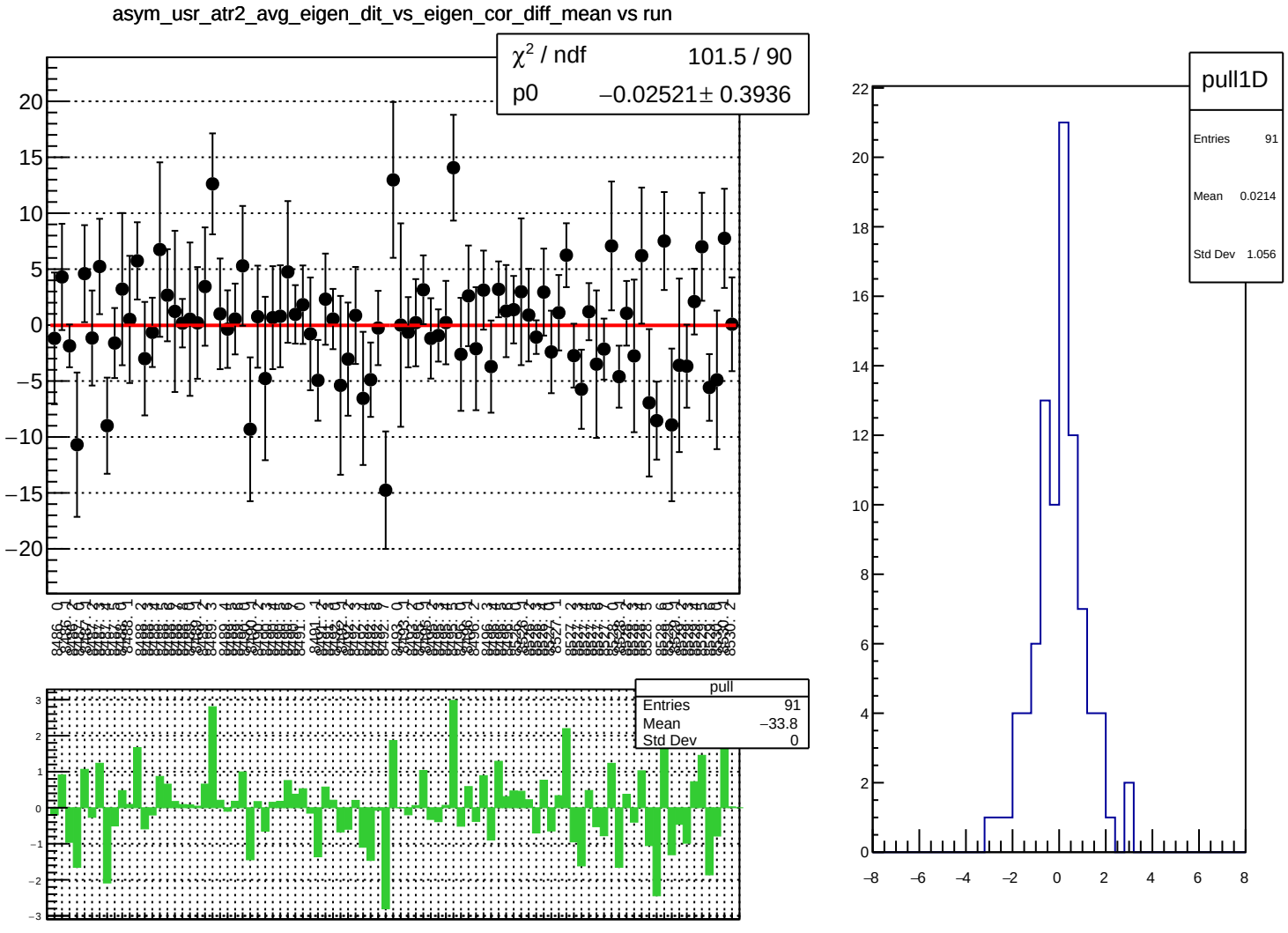

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.34 / 90
p0 −4.623e−06 ± 3.064e−06
pull
Entries 91
Mean 83.03
Std Dev 0
pull1D
Entries 91
Mean −0.0274
Std Dev 1.007

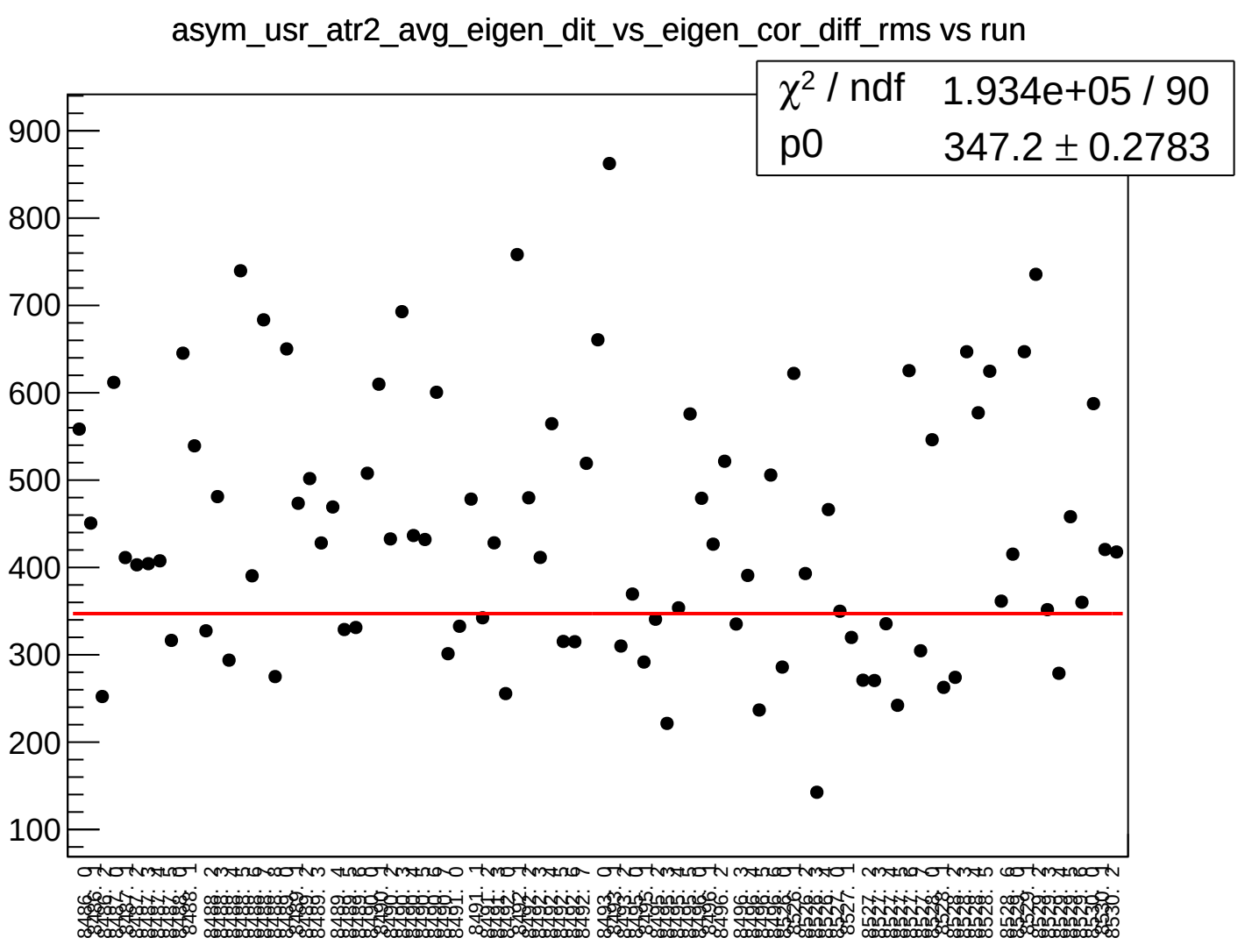

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.037e+05 / 90
p0 0.002779 ± 2.167e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

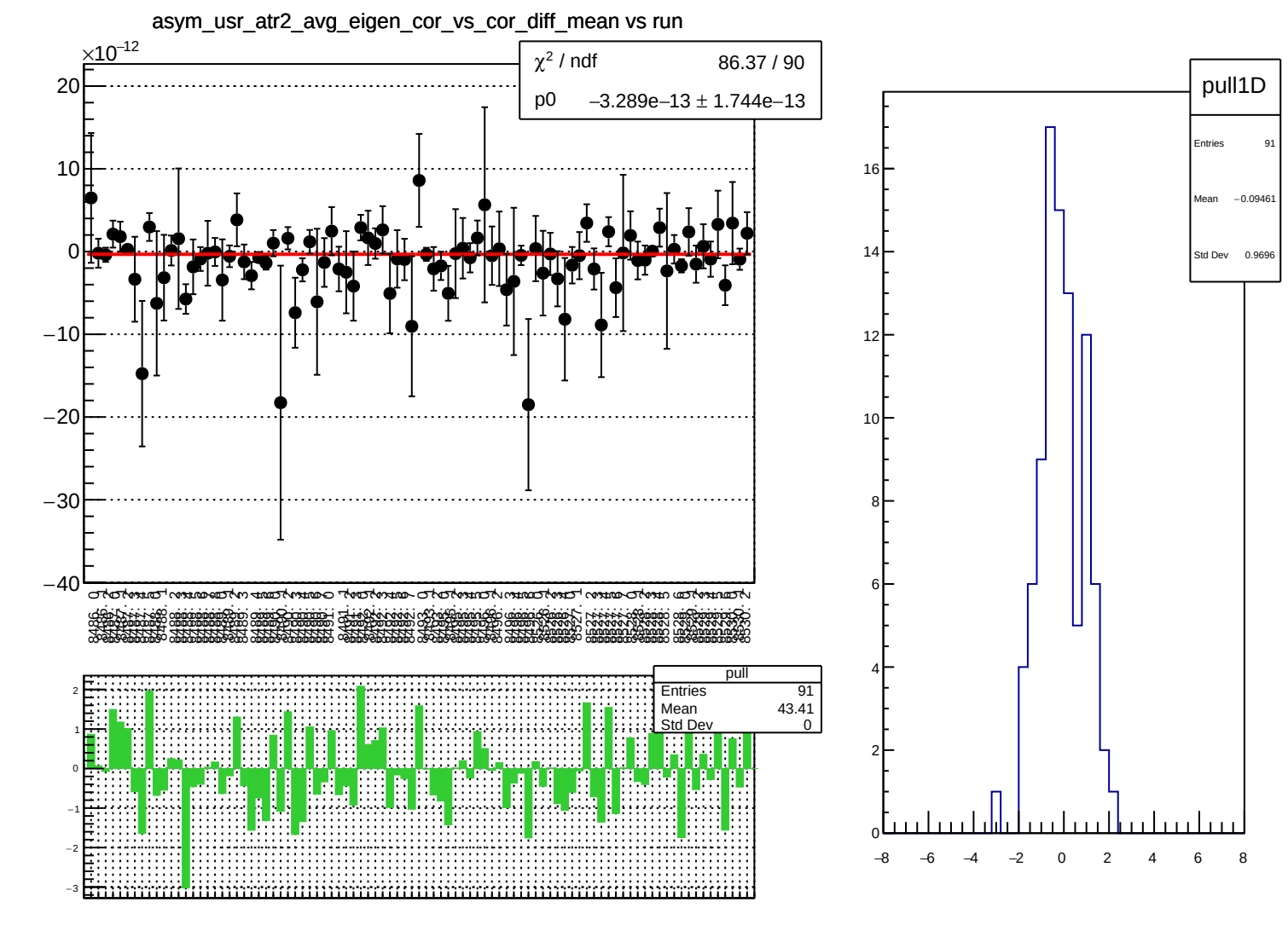

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101.5 / 90
p0 −0.02521 ± 0.3936
pull
Entries 91
Mean −33.8
Std Dev 0

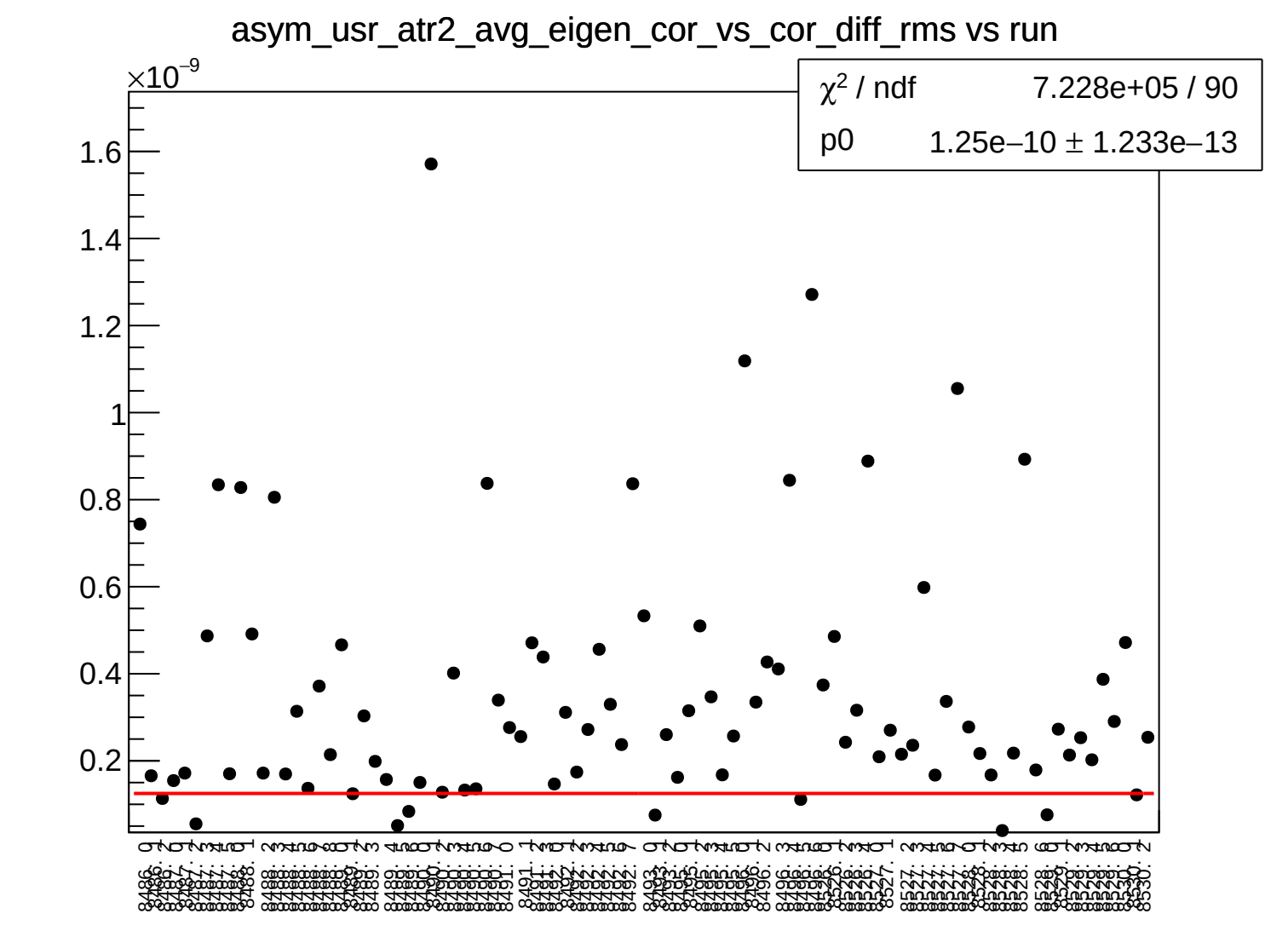

pull1D
Entries 91
Mean 0.0214
Std Dev 1.056

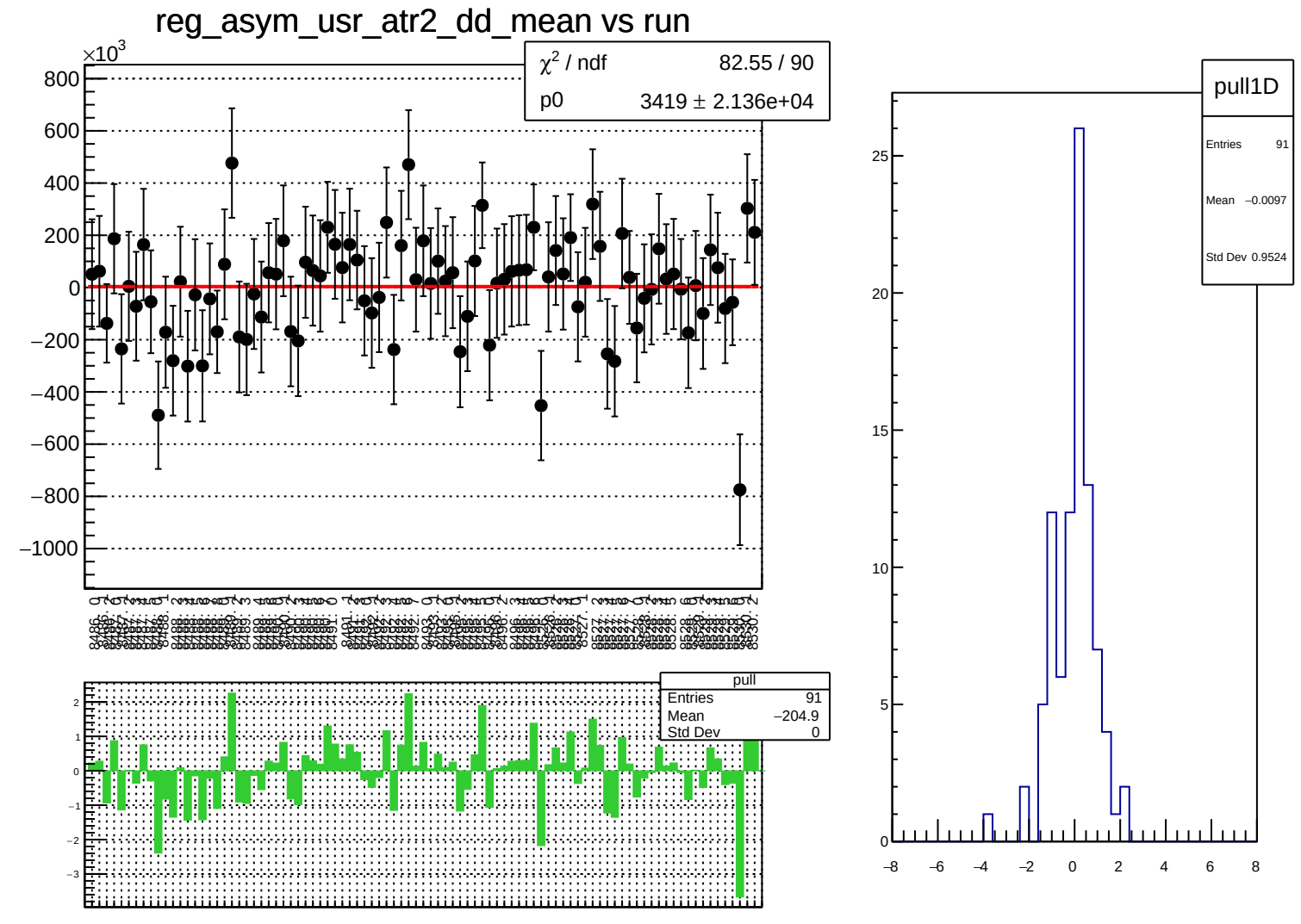

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.934e+05 / 90
p0 347.2 ± 0.2783
900
800
700
600
500
400
300
200
100

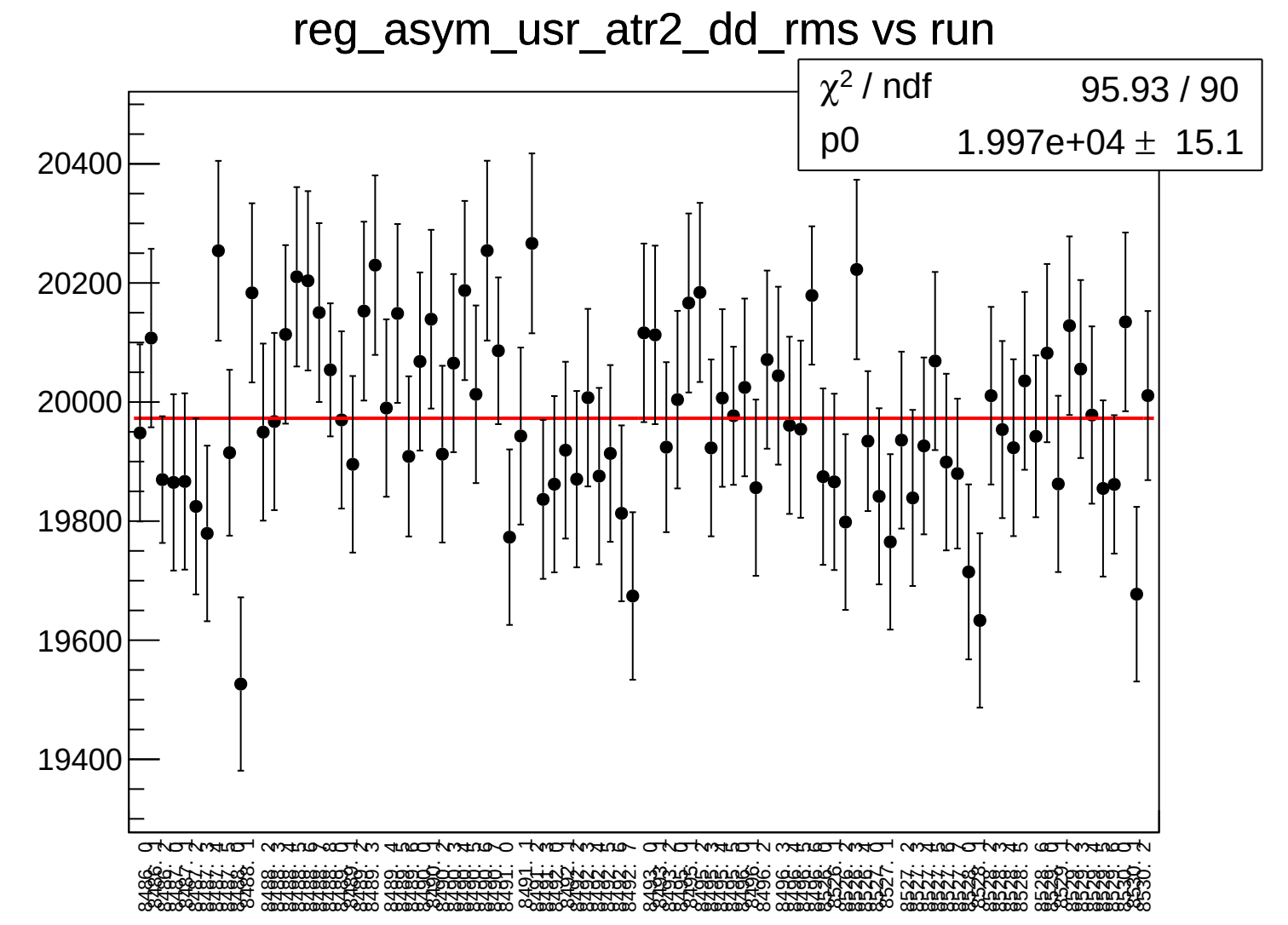

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.5 / 90
p0 −0.02521 ± 0.3936
pull
Entries 91
Mean −33.8
Std Dev 0
pull1D
Entries 91
Mean 0.0214
Std Dev 1.056

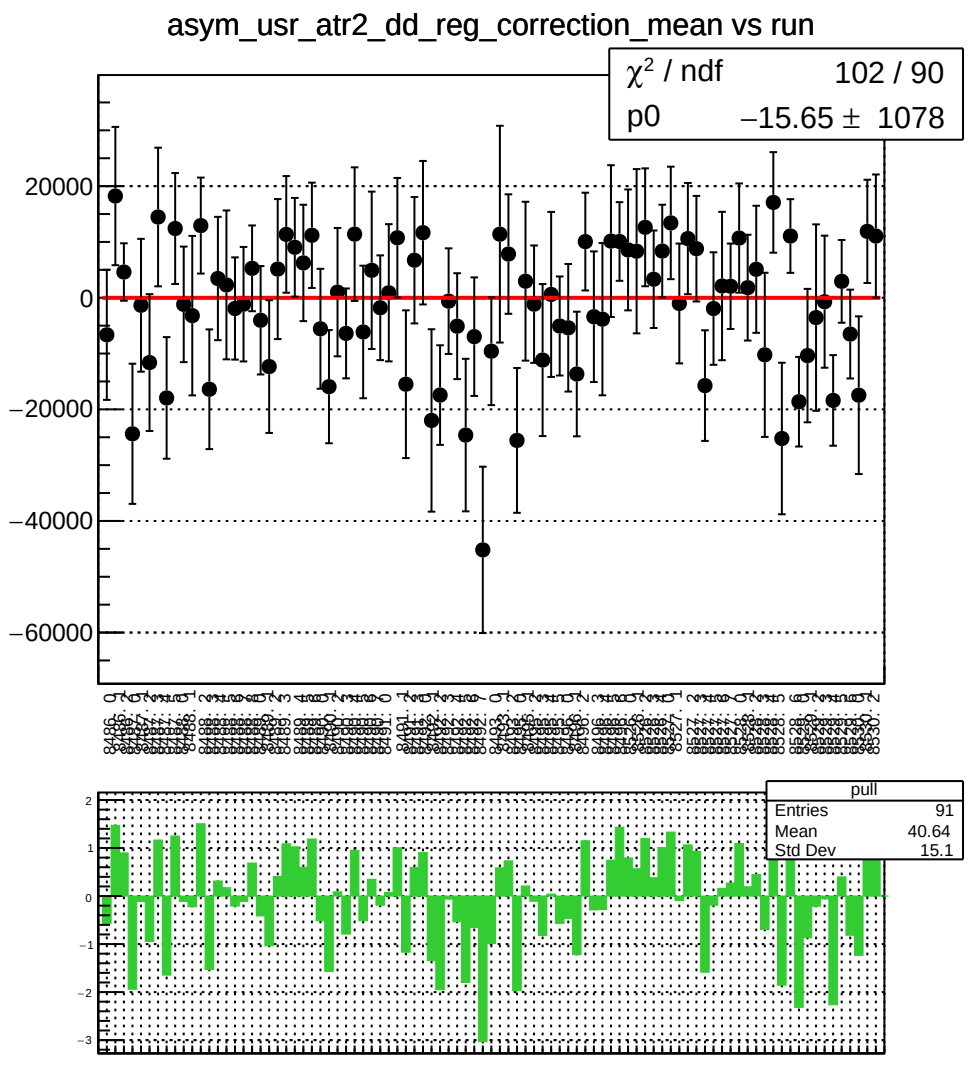

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.934e+05 / 90
p0 347.2 ± 0.2783
900
800
700
600
500
400
300
200
100

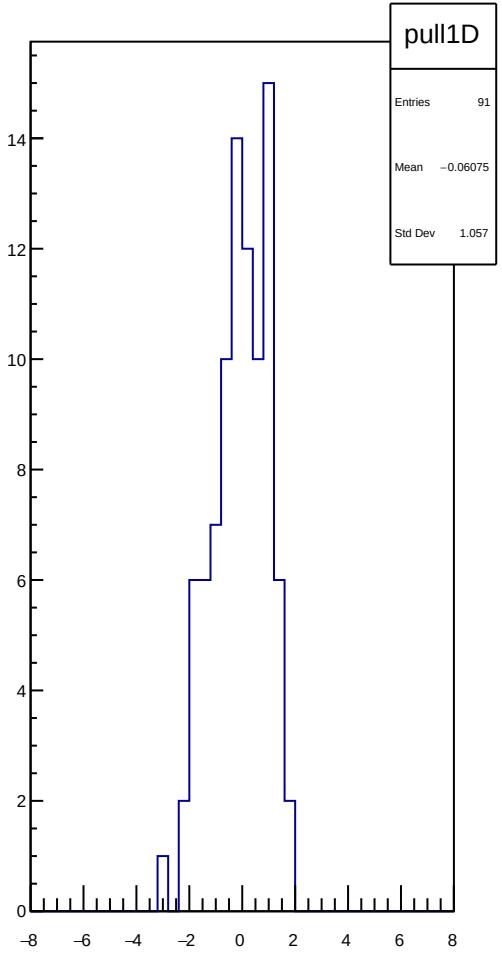

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.37 / 90
p0 −3.289e−13 ± 1.744e−13
pull
Entries 91
Mean 43.41
Std Dev 0
pull1D
Entries 91
Mean −0.09461
Std Dev 0.9696

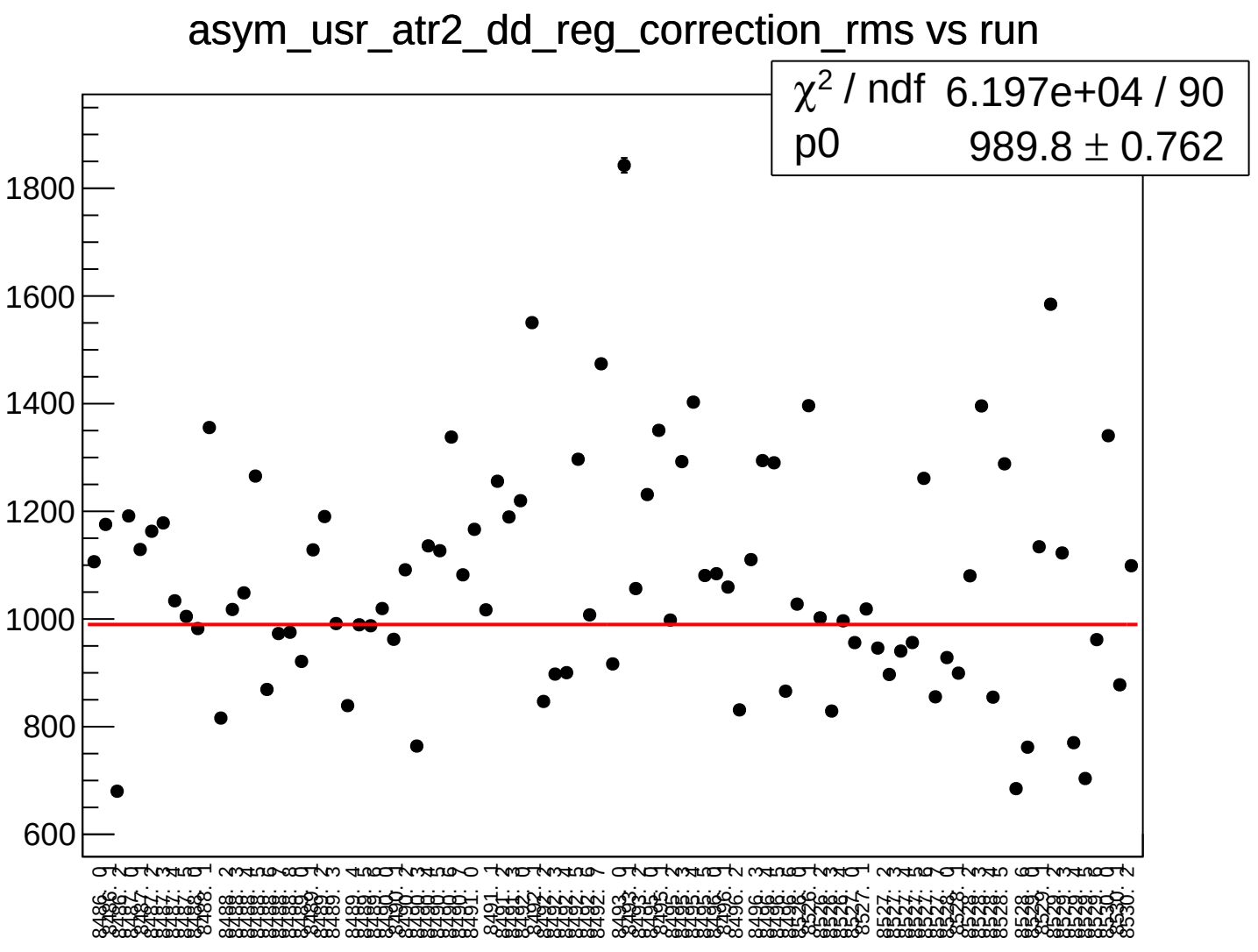

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.228e+05 / 90
p0 1.25e−10 ± 1.233e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

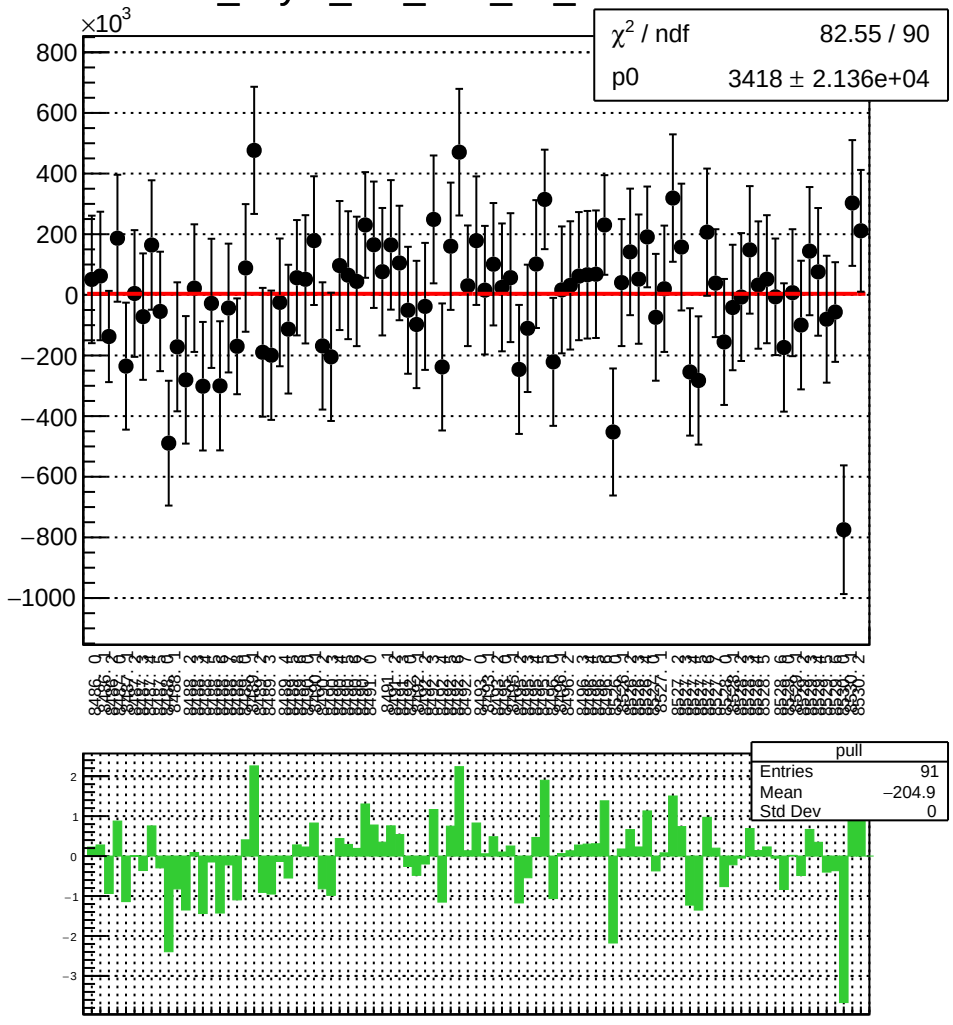

reg_asym_usr_atr2_dd_mean vs run
×10^3
χ² / ndf 82.55 / 90
p0 3419 ± 2.136e+04
pull
Entries 91
Mean −204.9
Std Dev 0
pull1D
Entries 91
Mean −0.0097
Std Dev 0.9524

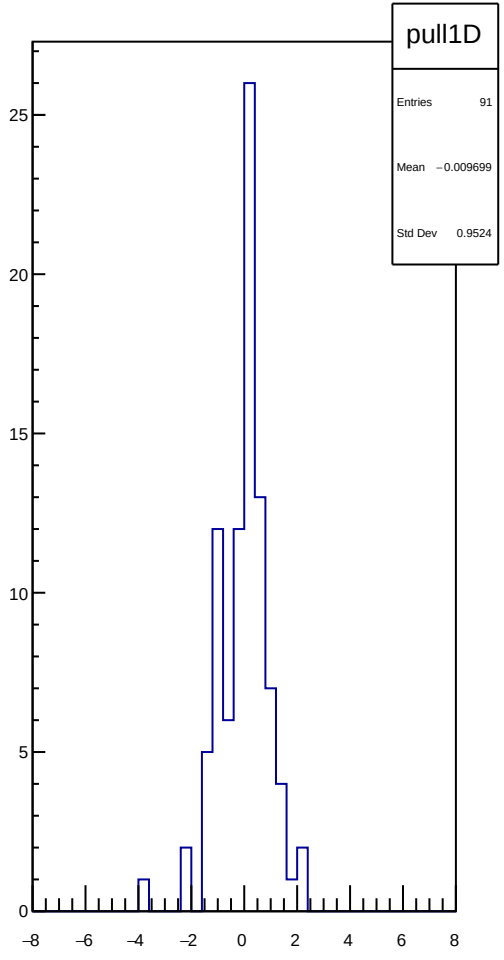

reg_asym_usr_atr2_dd_rms vs run
χ² / ndf 95.93 / 90
p0 1.997e+04 ± 15.1
20400
20200
20000
19800
19600
19400

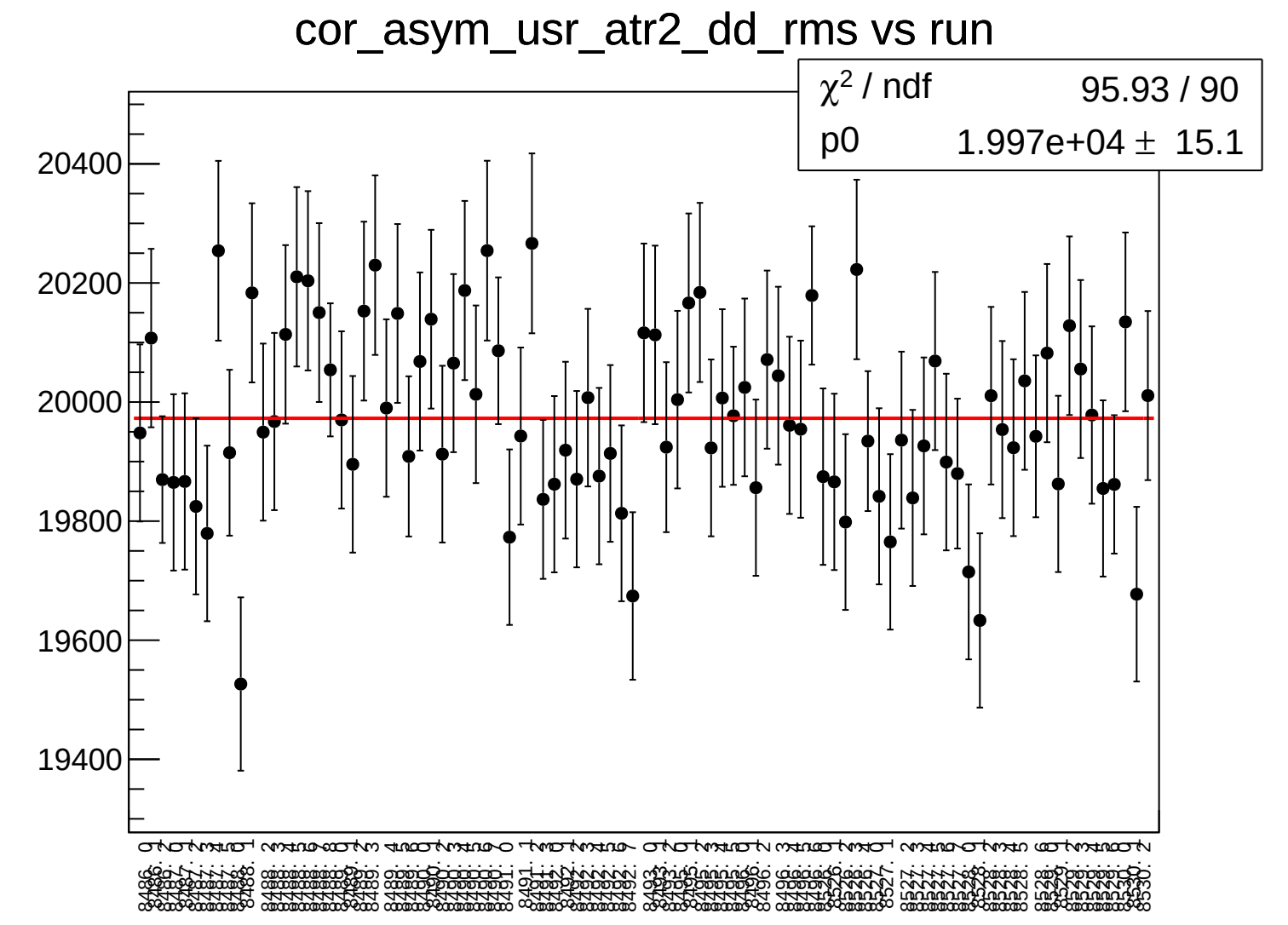

asym_usr_atr2_dd_reg_correction_mean vs run
χ² / ndf 102 / 90
p0 −15.65 ± 1078
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 40.64
Std Dev 15.1
2
1
0
−1
−2
−3

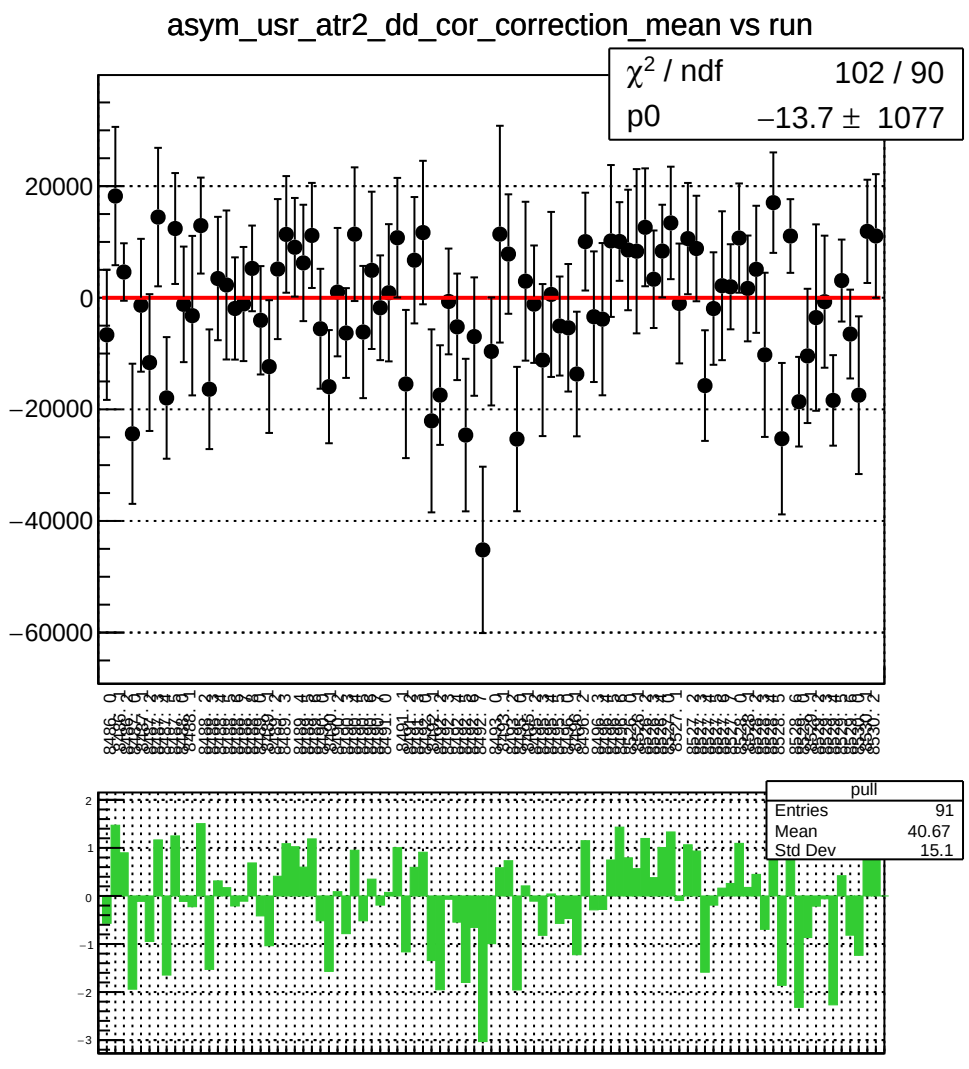

pull1D
Entries 91
Mean −0.06075
Std Dev 1.057
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

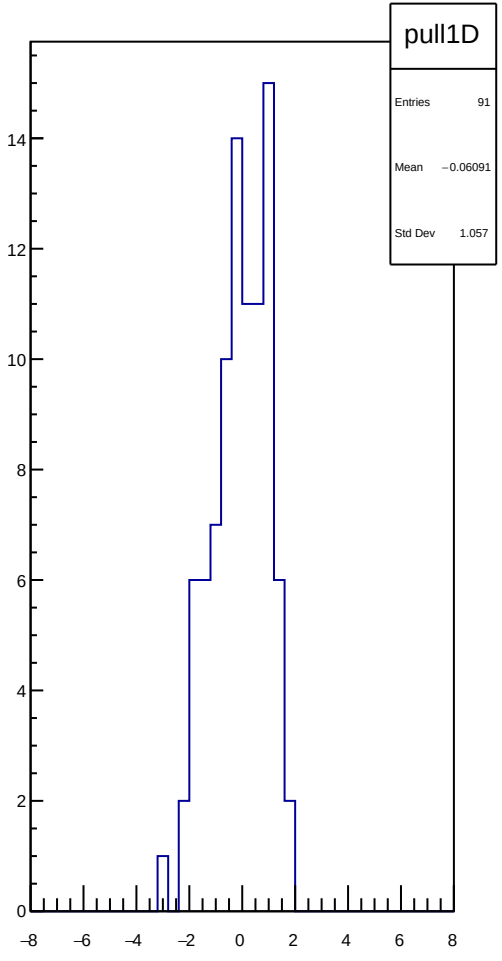

asym_usr_atr2_dd_reg_correction_rms vs run
χ^2 / ndf 6.197e+04 / 90
p0 989.8 ± 0.762
1800
1600
1400
1200
1000
800
600

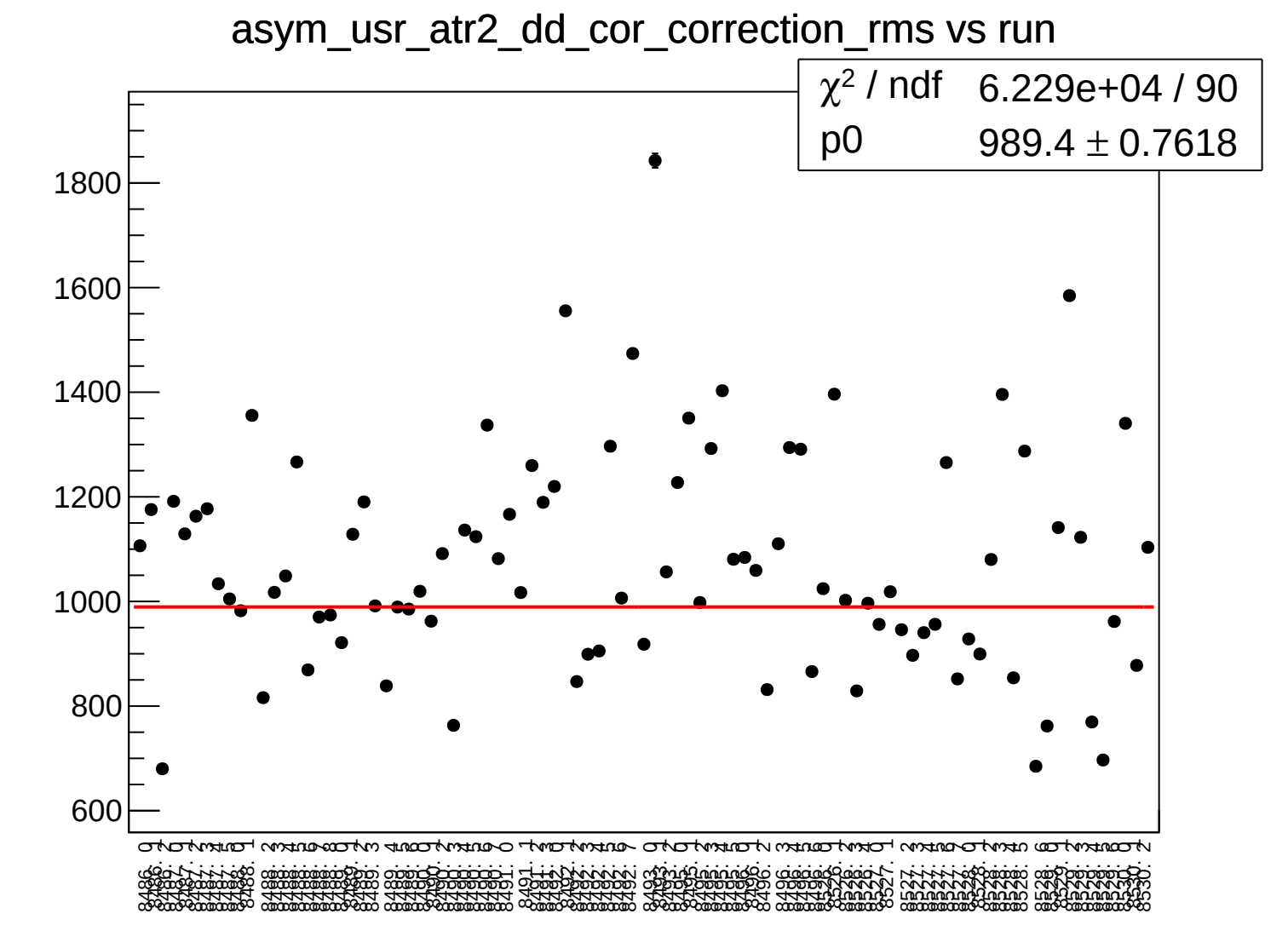

cor_asym_usr_atr2_dd_mean vs run
×10^3
χ² / ndf 82.55 / 90
p0 3418 ± 2.136e+04
pull
Entries 91
Mean −204.9
Std Dev 0

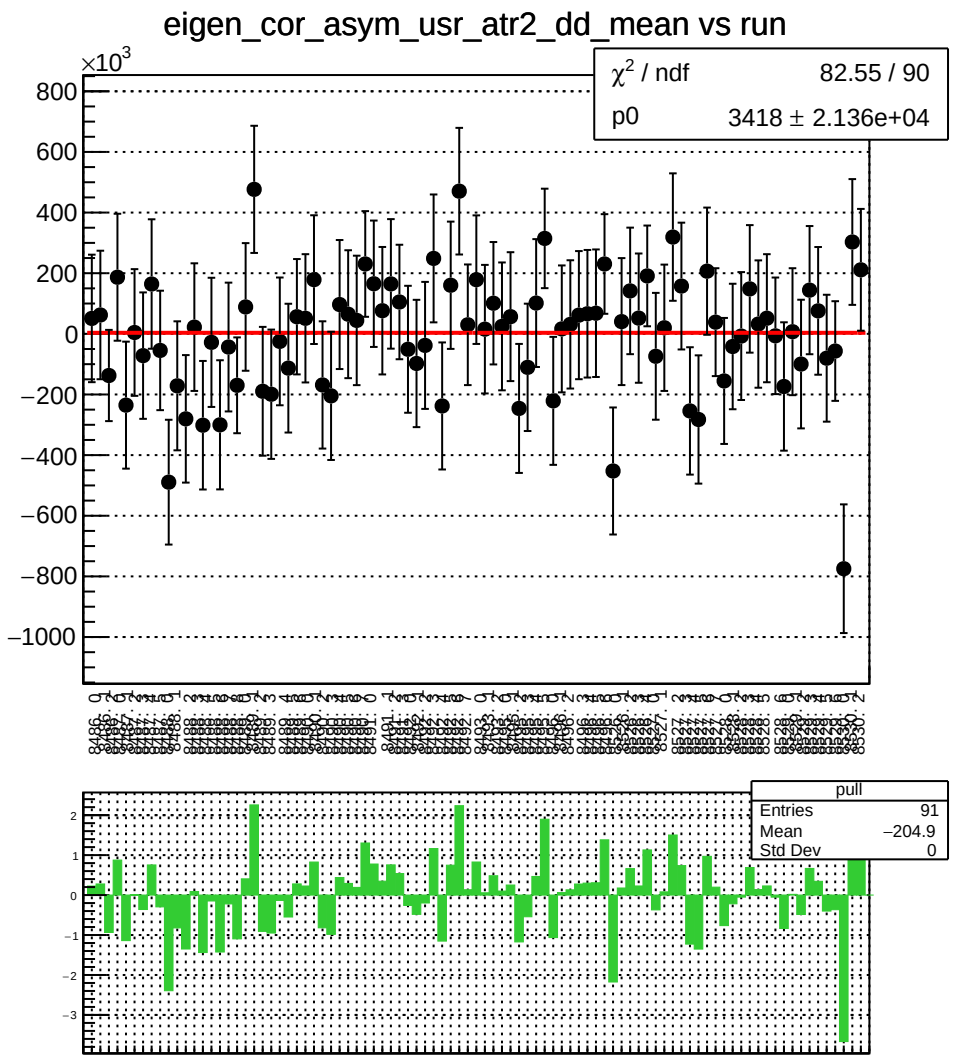

pull1D
Entries 91
Mean −0.009699
Std Dev 0.9524

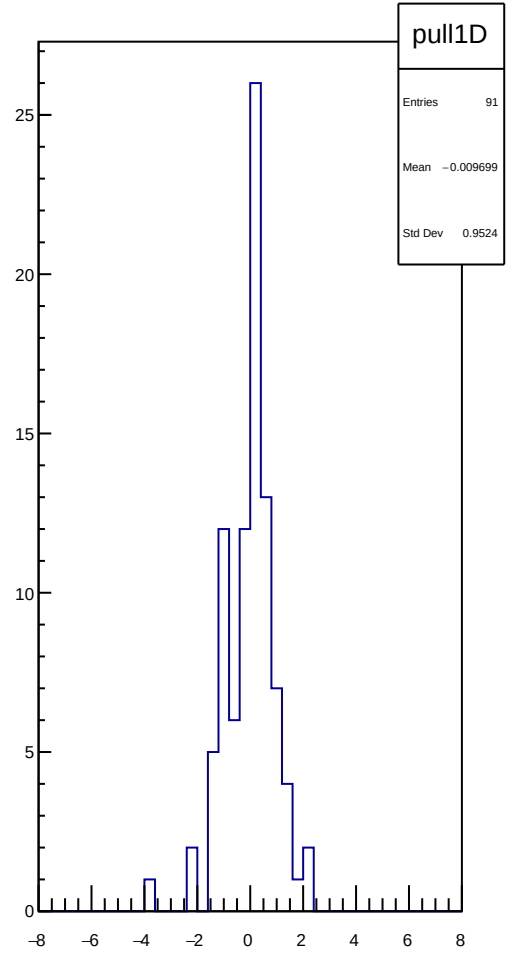

cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 95.93 / 90
p0 1.997e+04 ± 15.1
20400
20200
20000
19800
19600
19400

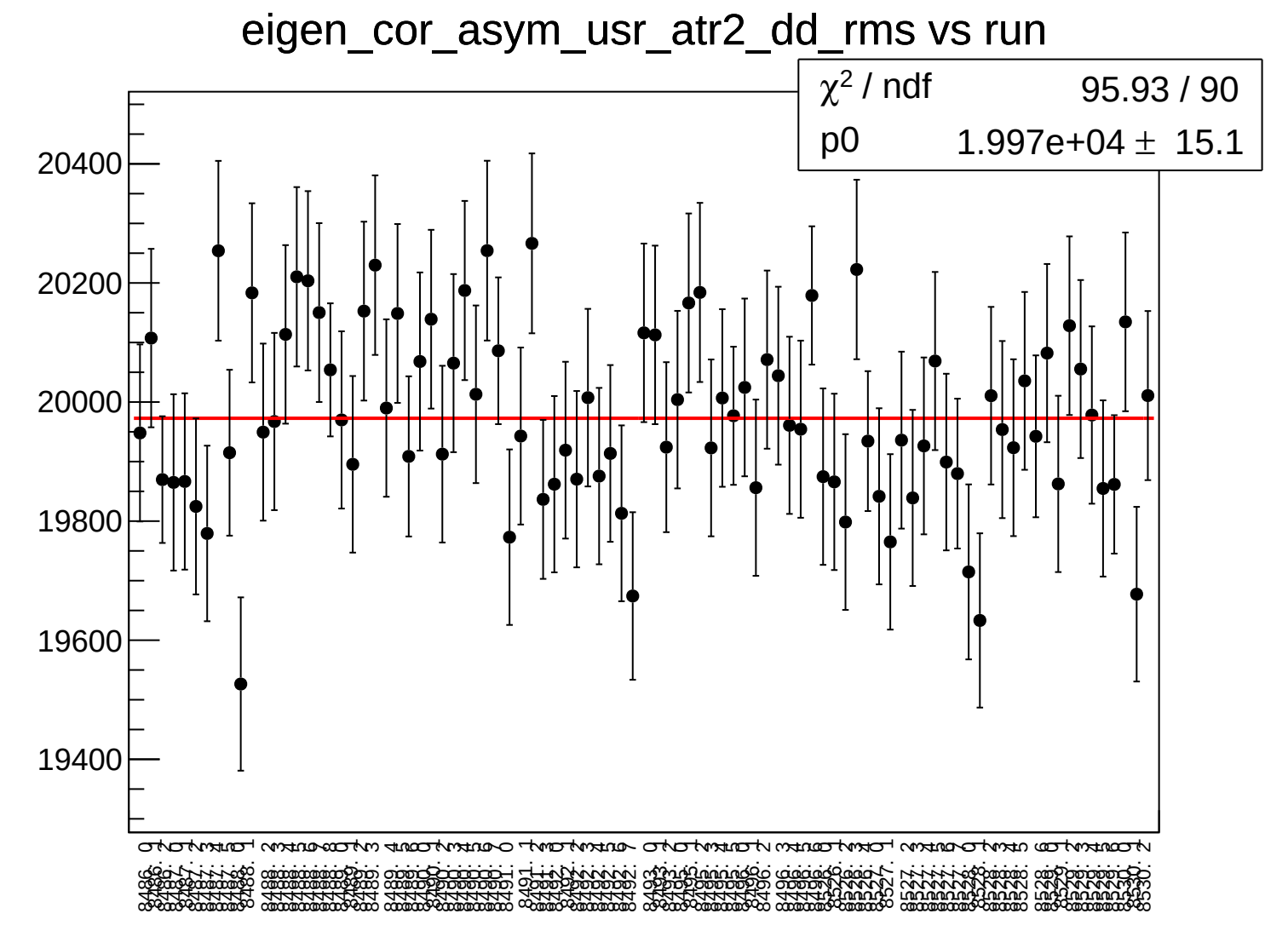

asym_usr_atr2_dd_cor_correction_mean vs run
χ² / ndf 102 / 90
p0 −13.7 ± 1077
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 40.67
Std Dev 15.1
2
1
0
−1
−2
−3

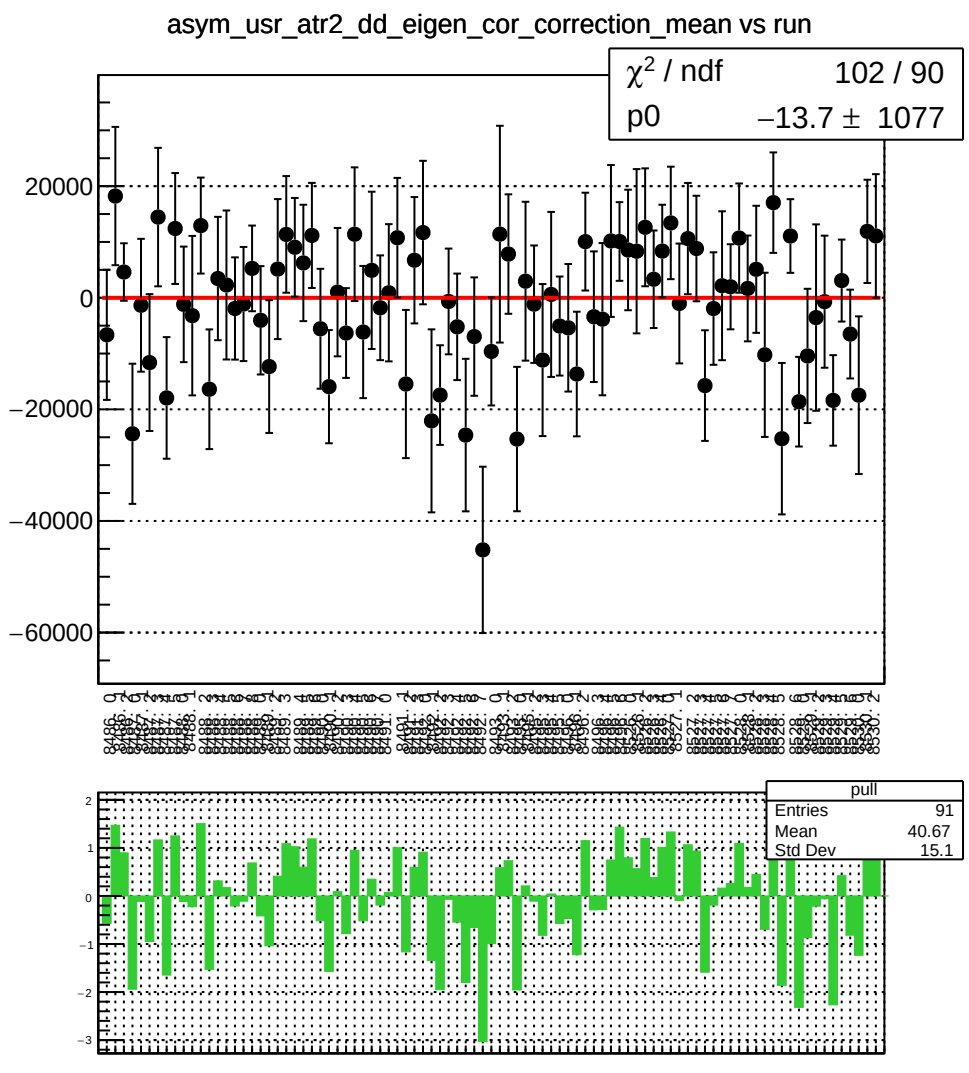

pull1D
Entries 91
Mean −0.06091
Std Dev 1.057
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

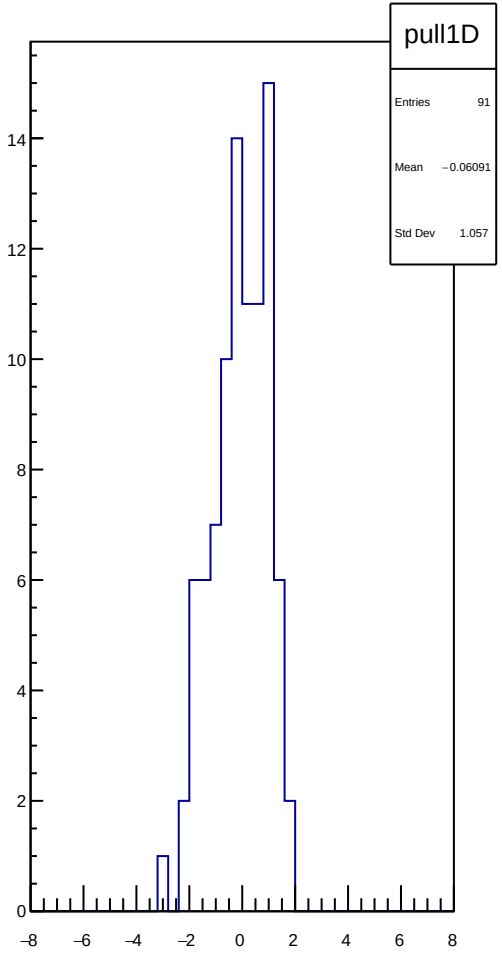

asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 6.229e+04 / 90
p0 989.4 ± 0.7618
1800
1600
1400
1200
1000
800
600

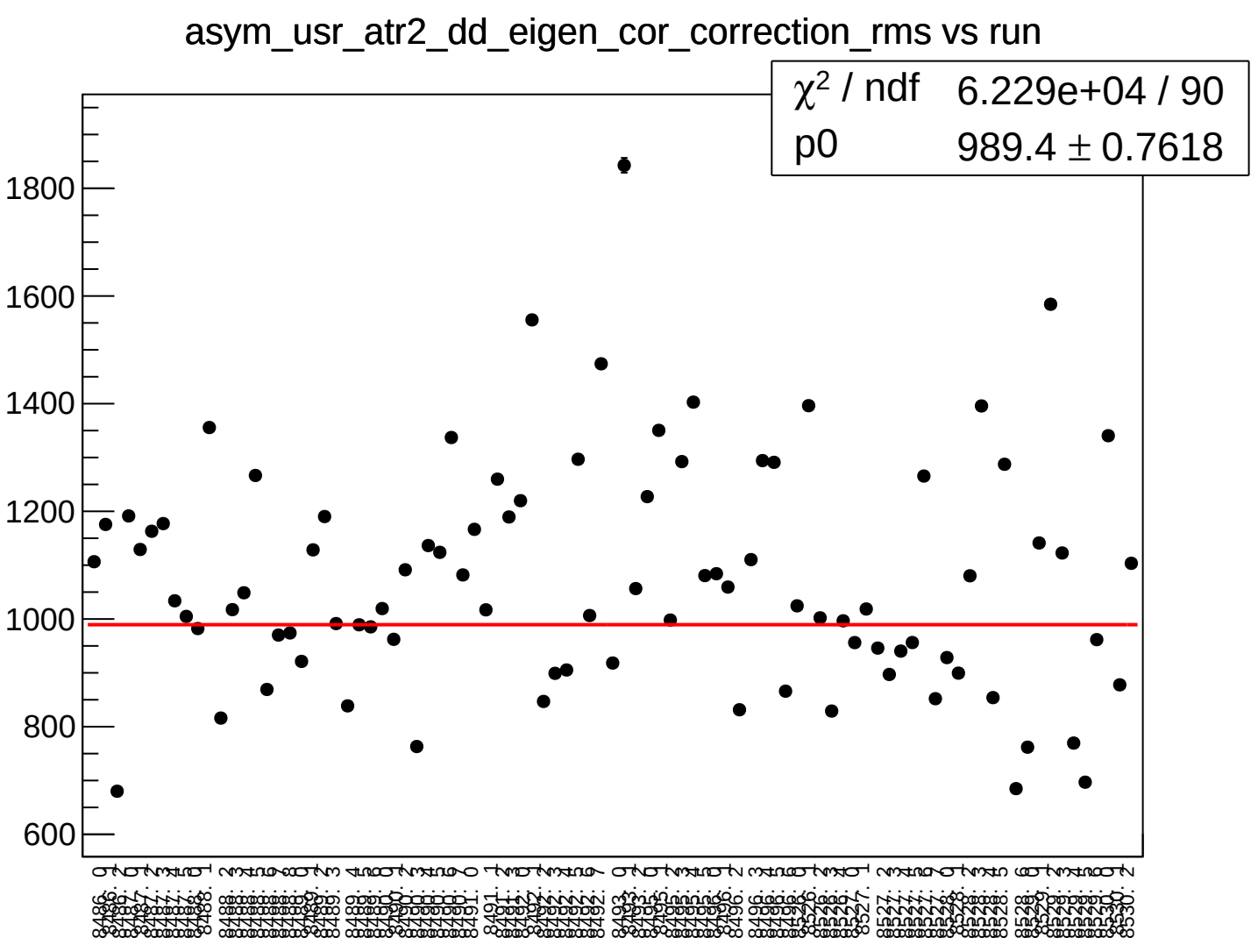

eigen_cor_asym_usr_atr2_dd_mean vs run
×10^3
χ² / ndf 82.55 / 90
p0 3418 ± 2.136e+04
pull
Entries 91
Mean −204.9
Std Dev 0

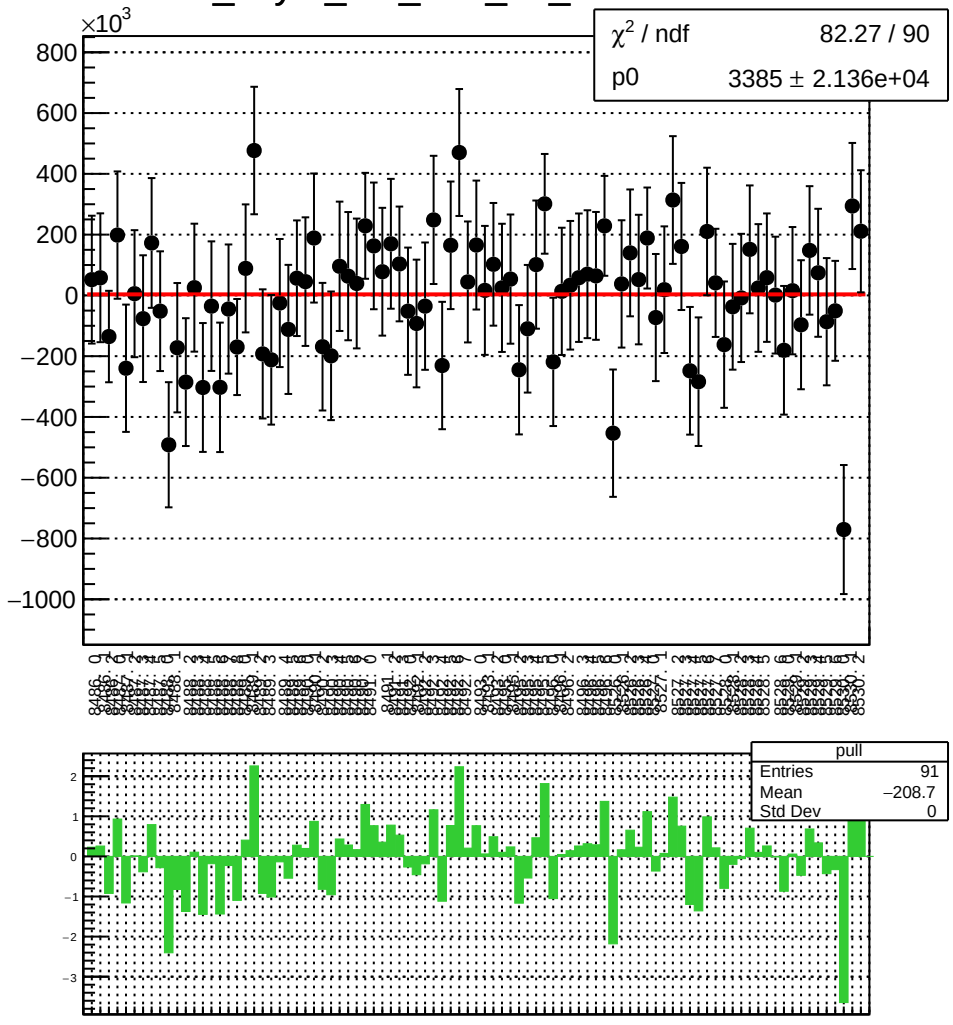

pull1D
Entries 91
Mean −0.009699
Std Dev 0.9524

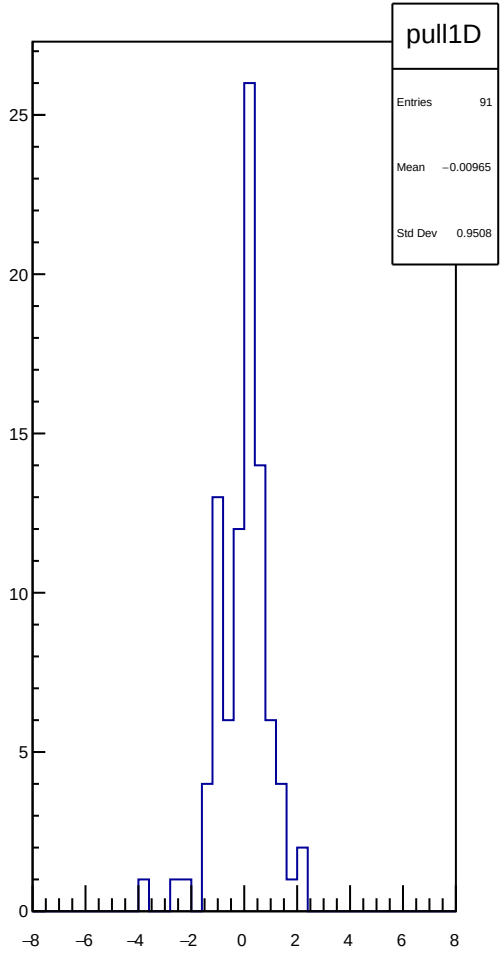

eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 95.93 / 90
p0 1.997e+04 ± 15.1
20400
20200
20000
19800
19600
19400

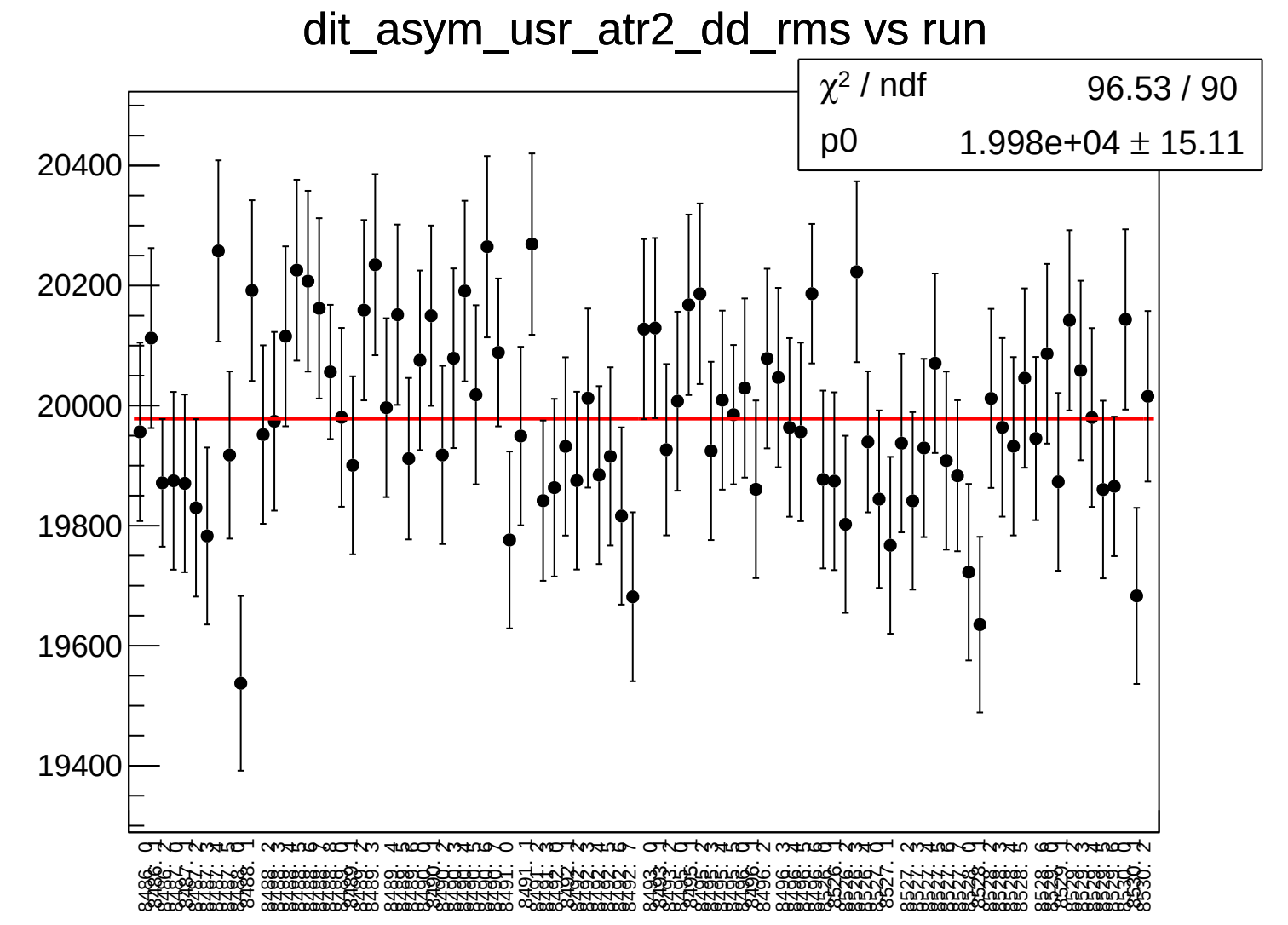

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
χ² / ndf 102 / 90
p0 −13.7 ± 1077
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 40.67
Std Dev 15.1
2
1
0
−1
−2
−3

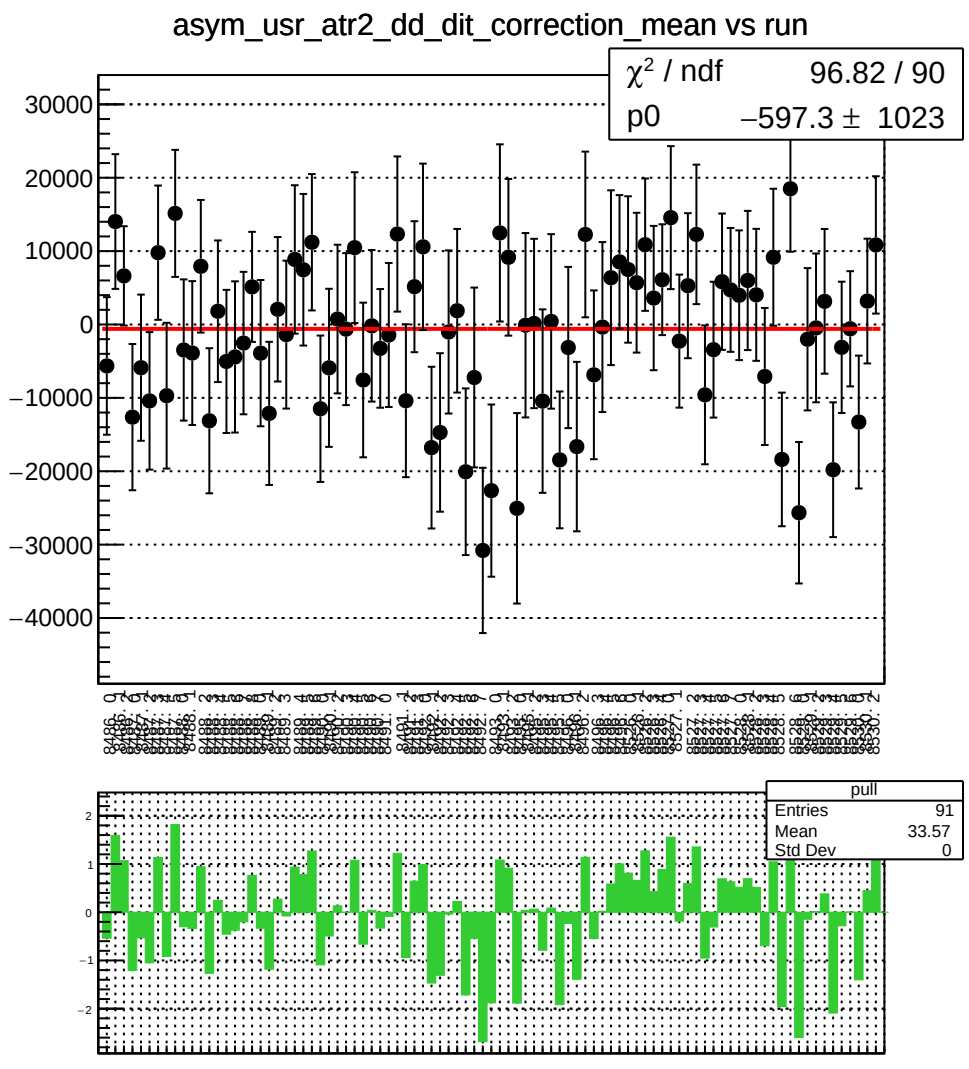

pull1D
Entries 91
Mean −0.06091
Std Dev 1.057
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

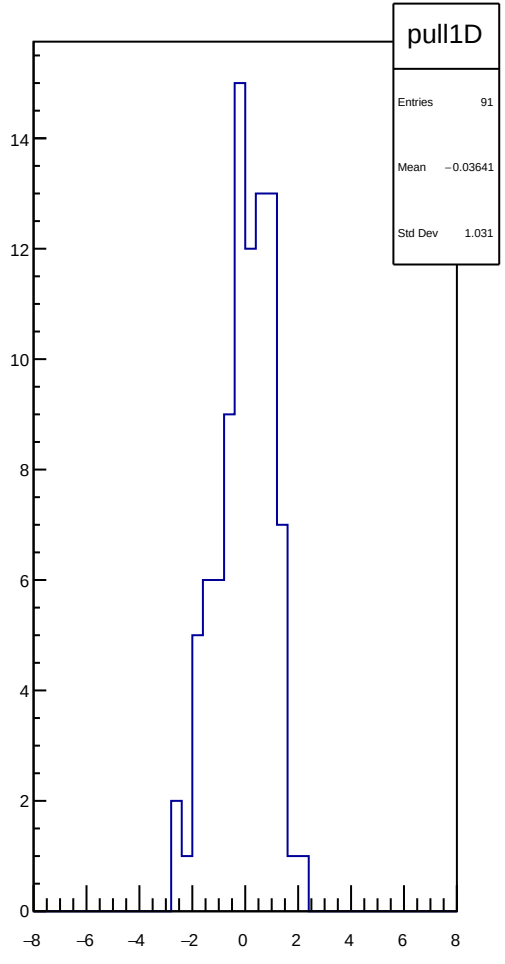

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 6.229e+04 / 90
p0 989.4 ± 0.7618
1800
1600
1400
1200
1000
800
600

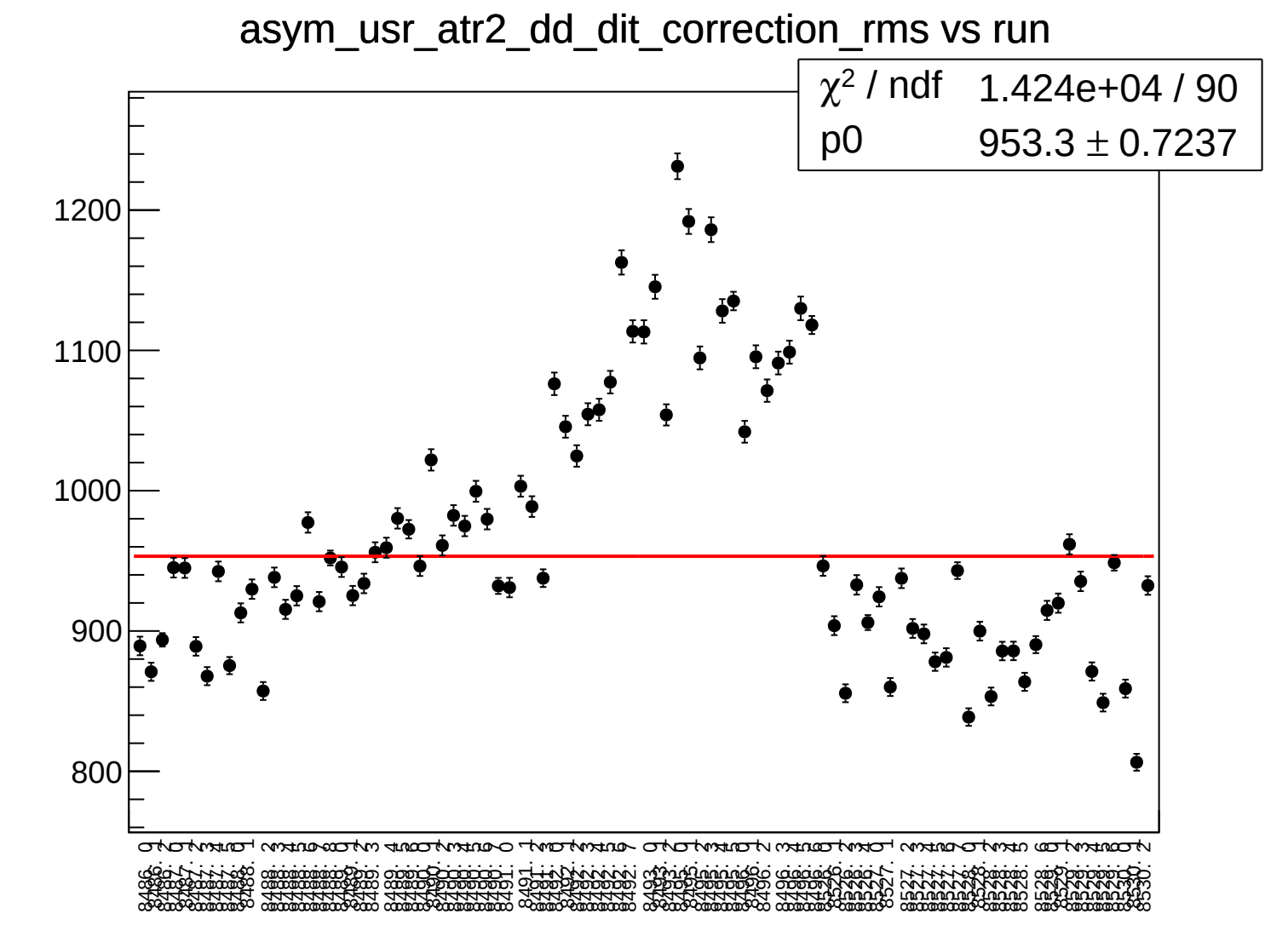

dit_asym_usr_atr2_dd_mean vs run
×10^3
χ² / ndf 82.27 / 90
p0 3385 ± 2.136e+04
pull
Entries 91
Mean −208.7
Std Dev 0

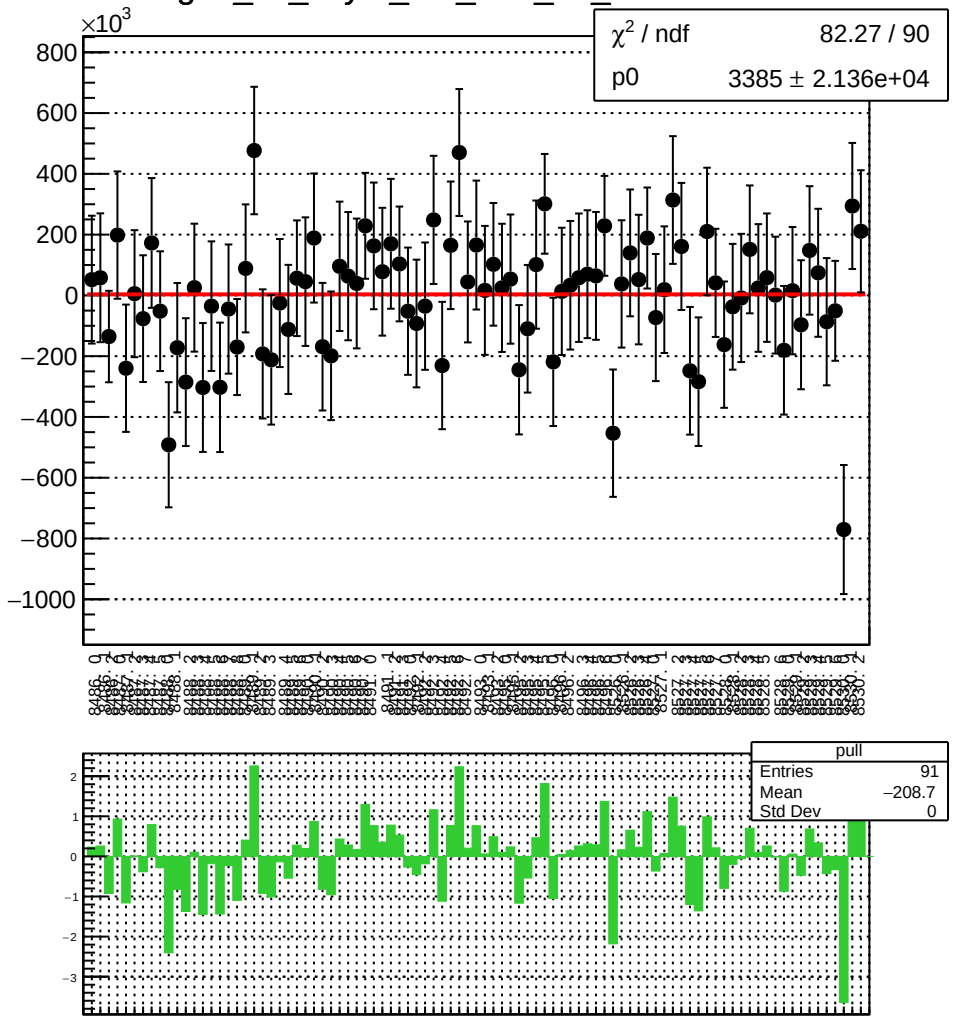

pull1D
Entries 91
Mean −0.00965
Std Dev 0.9508

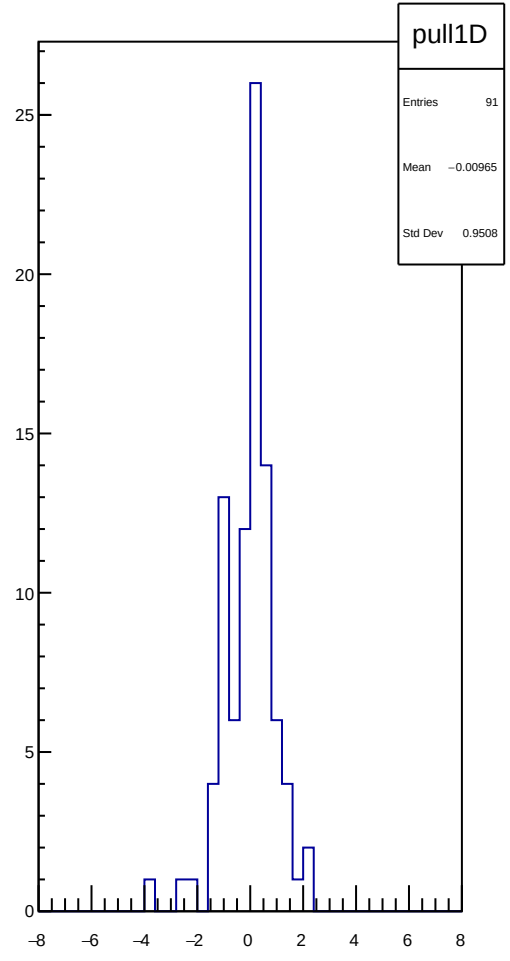

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 96.53 / 90
p0 1.998e+04 ± 15.11
20400
20200
20000
19800
19600
19400

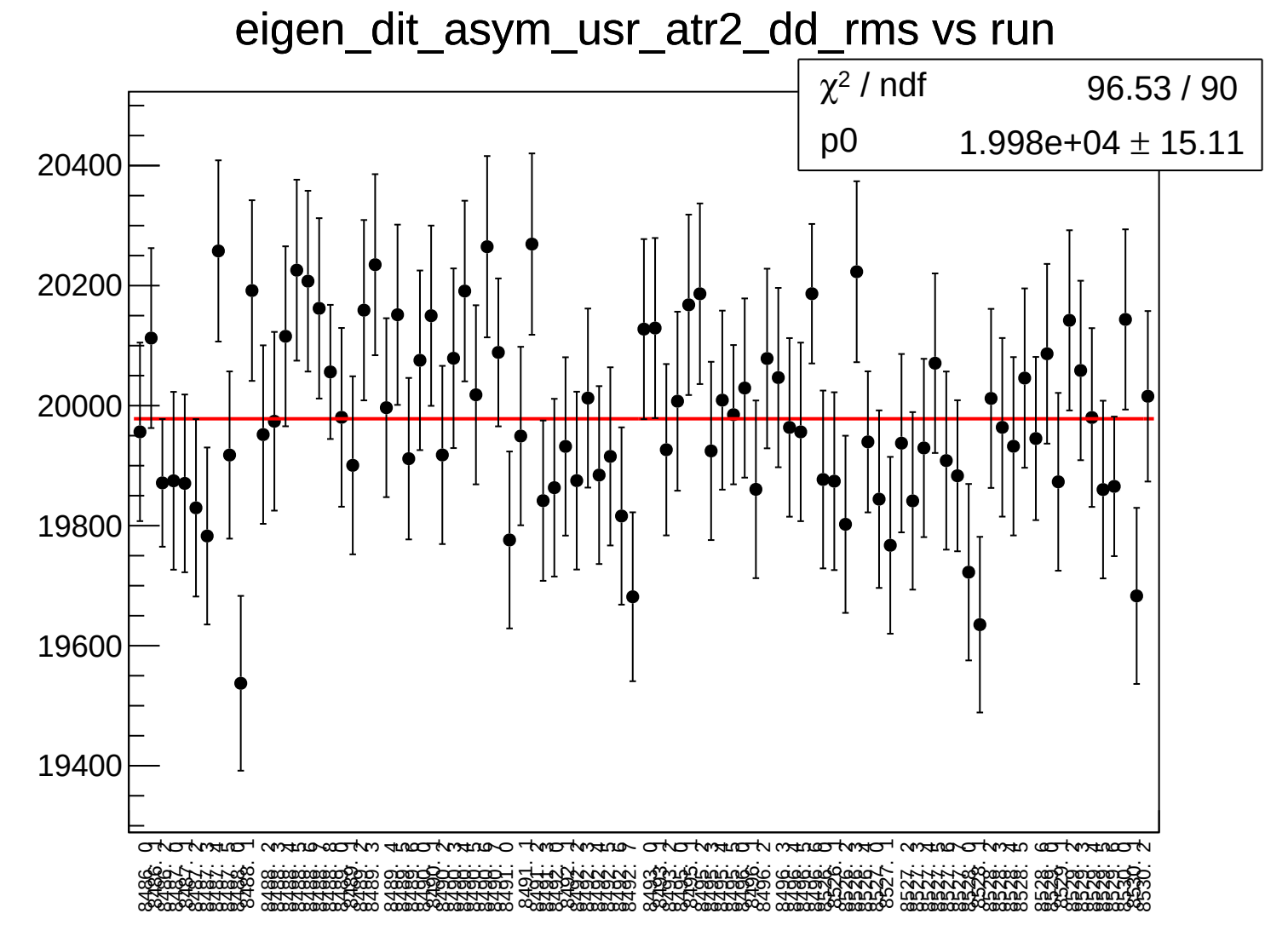

asym_usr_atr2_dd_dit_correction_mean vs run
χ² / ndf 96.82 / 90
p0 −597.3 ± 1023
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean 33.57
Std Dev 0
2
1
0
−1
−2

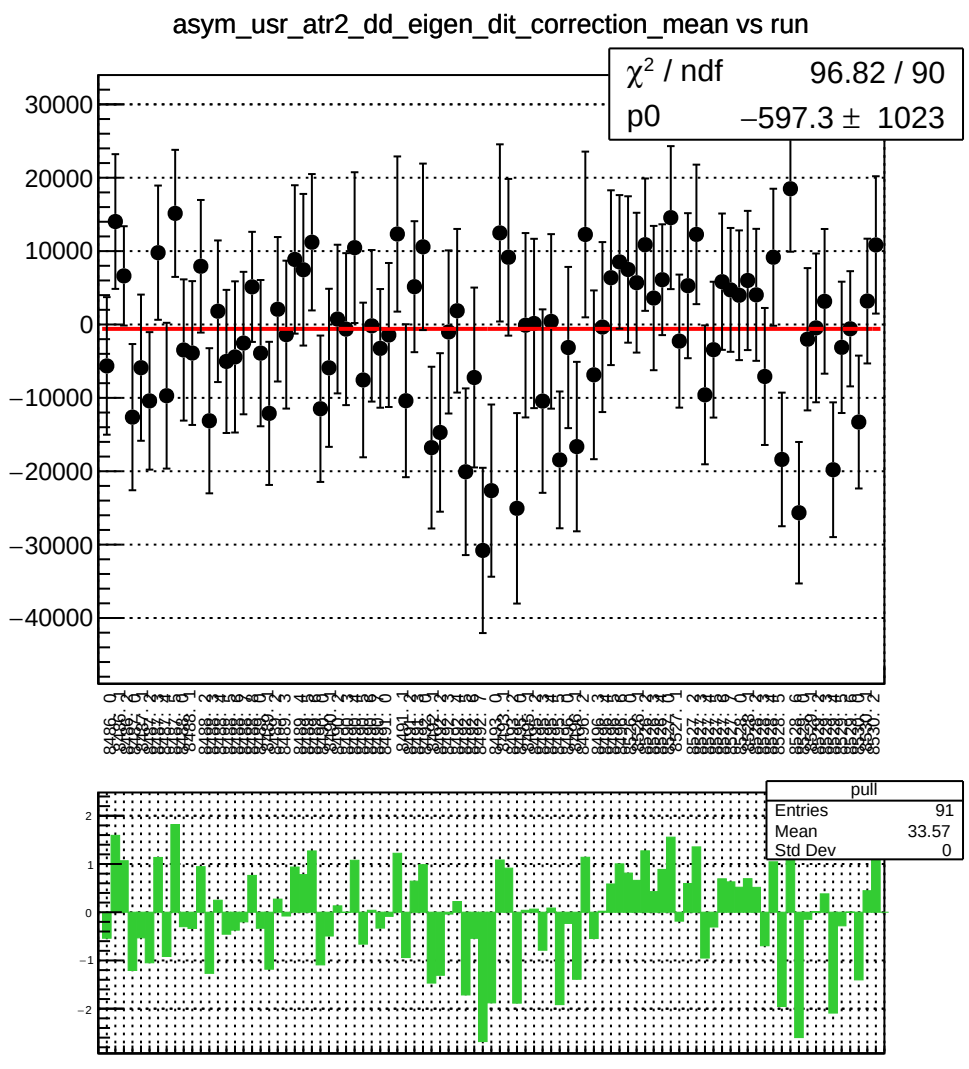

pull1D
Entries 91
Mean −0.03641
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

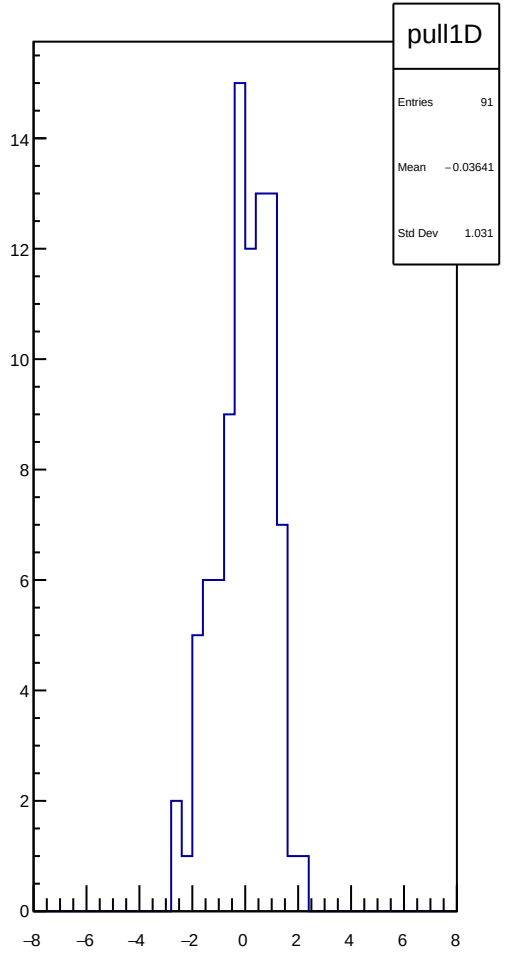

asym_usr_atr2_dd_dit_correction_rms vs run
χ² / ndf 1.424e+04 / 90
p0 953.3 ± 0.7237
1200
1100
1000
900
800

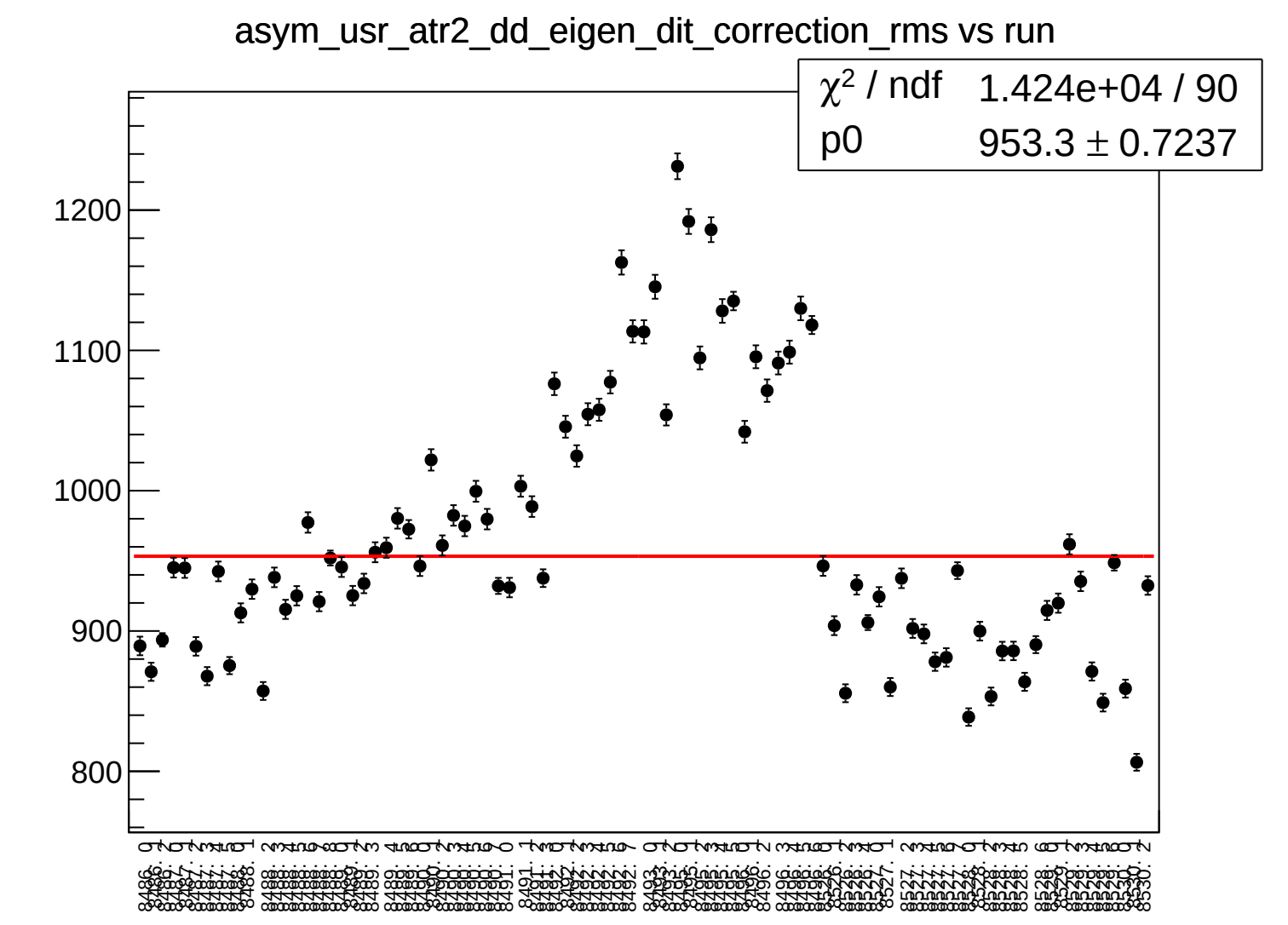

eigen_dit_asym_usr_atr2_dd_mean vs run
×10^3
χ² / ndf 82.27 / 90
p0 3385 ± 2.136e+04
pull
Entries 91
Mean −208.7
Std Dev 0

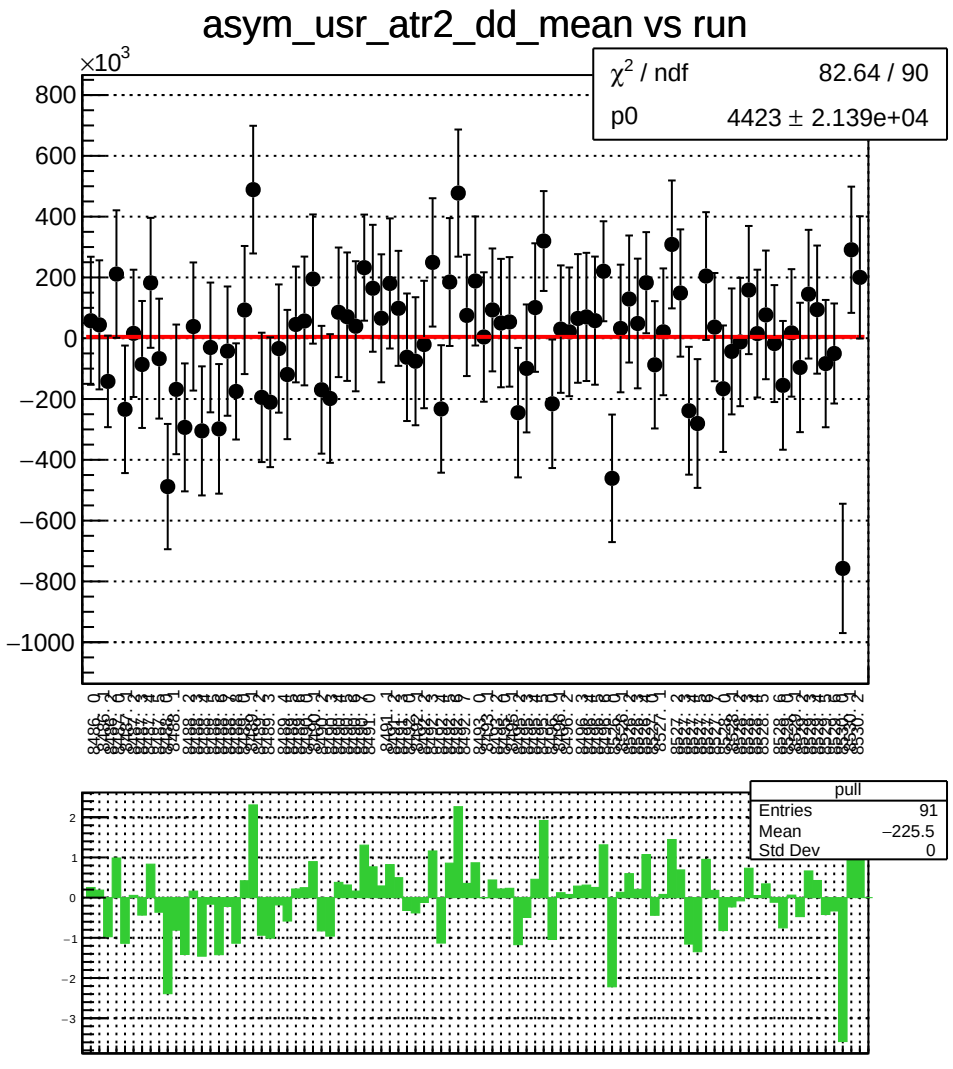

pull1D
Entries 91
Mean −0.00965
Std Dev 0.9508

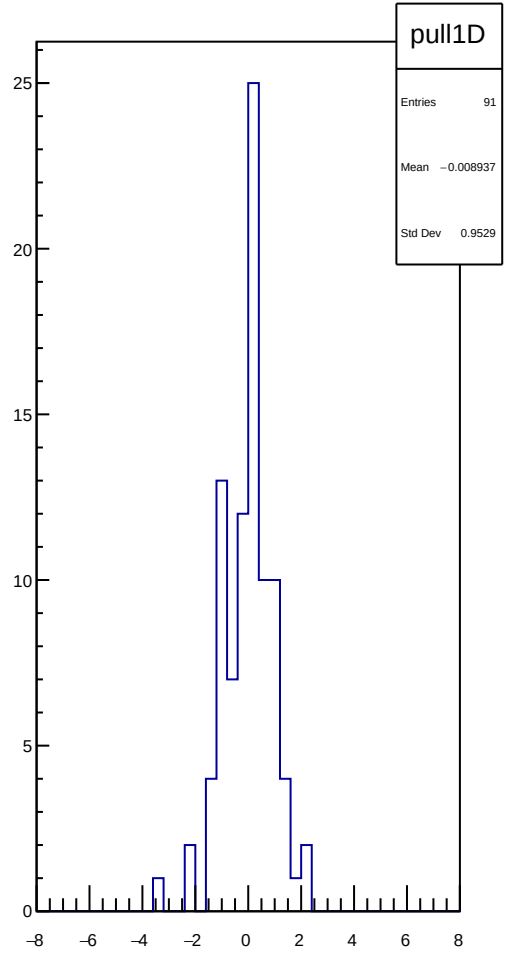

eigen_dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 96.53 / 90
p0 1.998e+04 ± 15.11
20400
20200
20000
19800
19600
19400

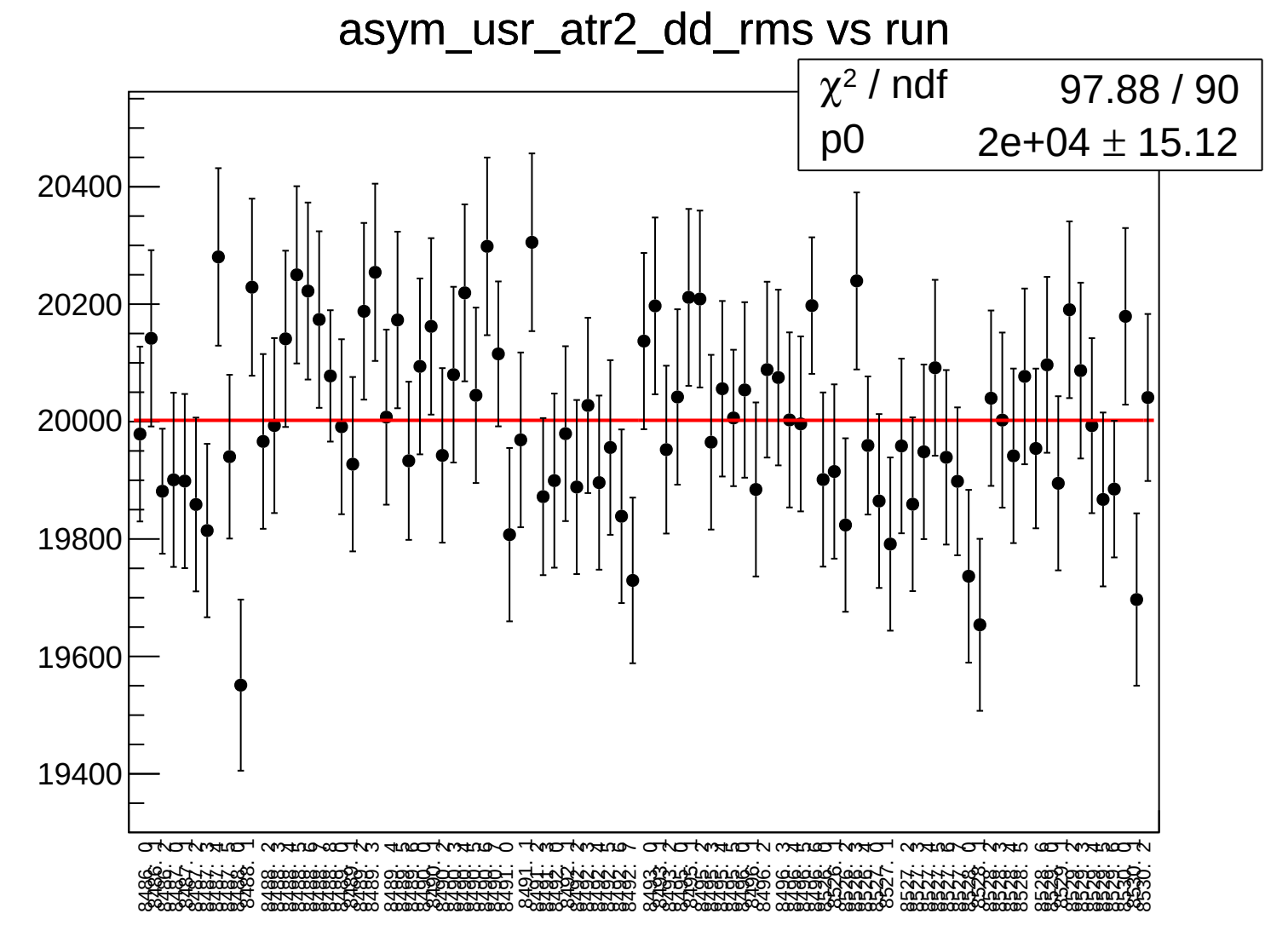

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
χ² / ndf 96.82 / 90
p0 −597.3 ± 1023
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean 33.57
Std Dev 0
2
1
0
−1
−2

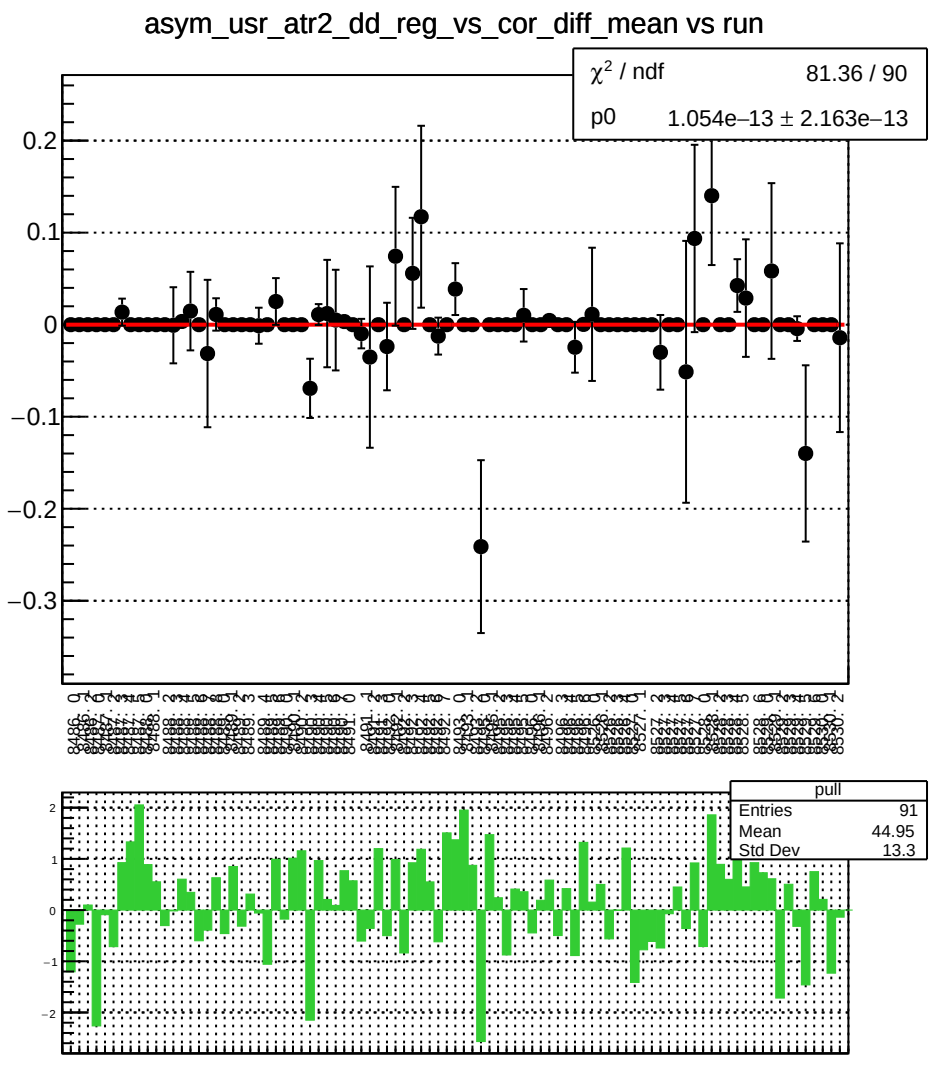

pull1D
Entries 91
Mean −0.03641
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

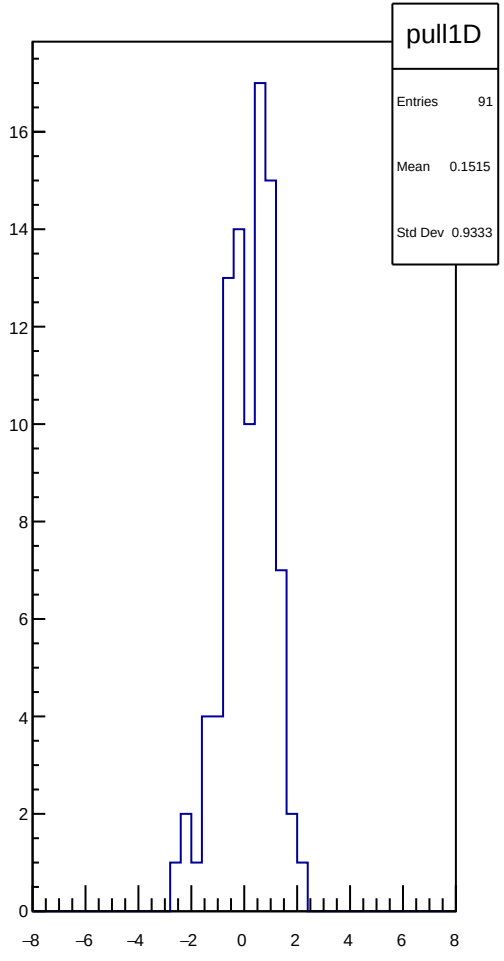

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.424e+04 / 90
p0 953.3 ± 0.7237
1200
1100
1000
900
800

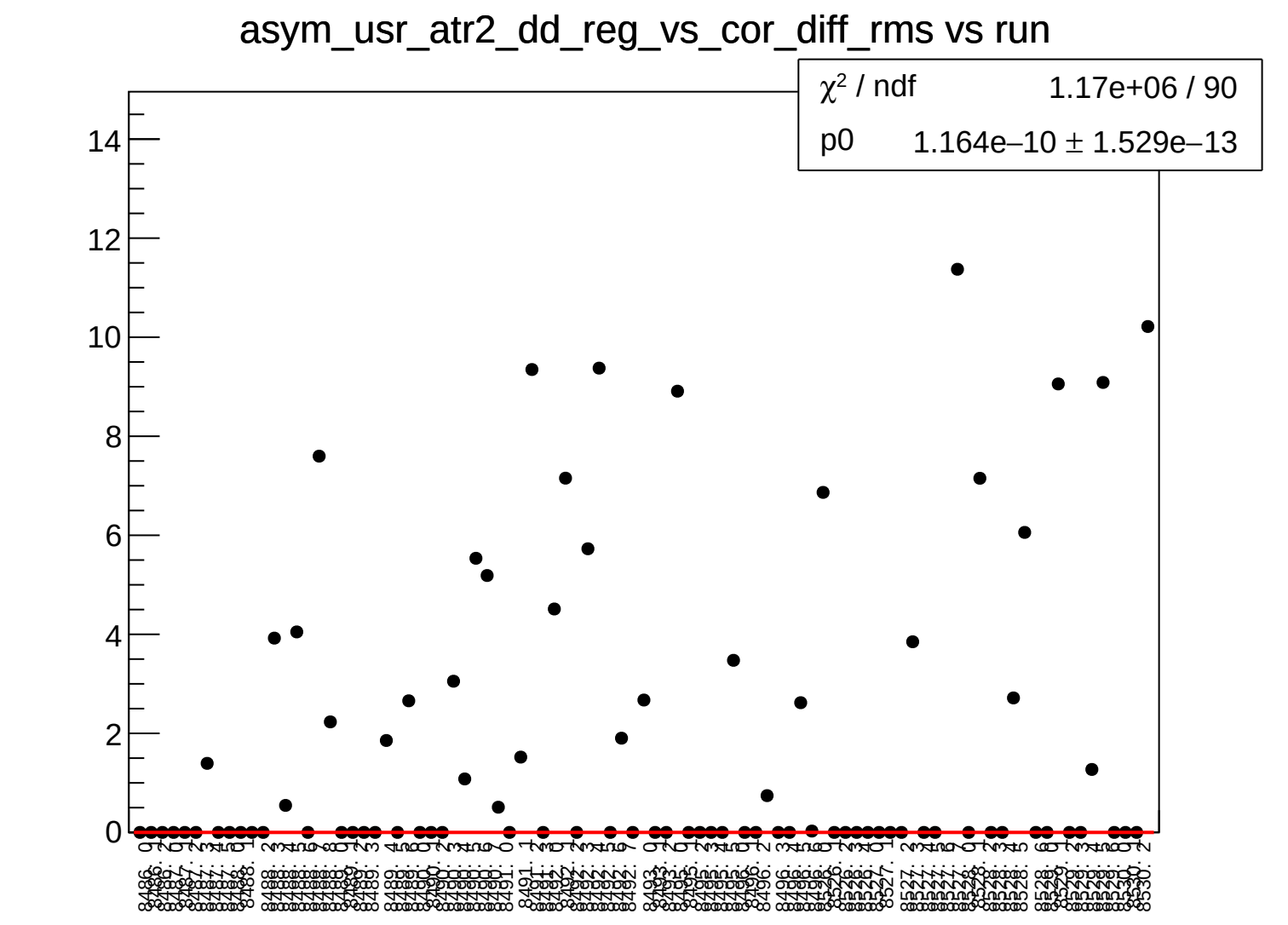

asym_usr_atr2_dd_mean vs run
×10^3
χ² / ndf 82.64 / 90
p0 4423 ± 2.139e+04
pull
Entries 91
Mean −225.5
Std Dev 0

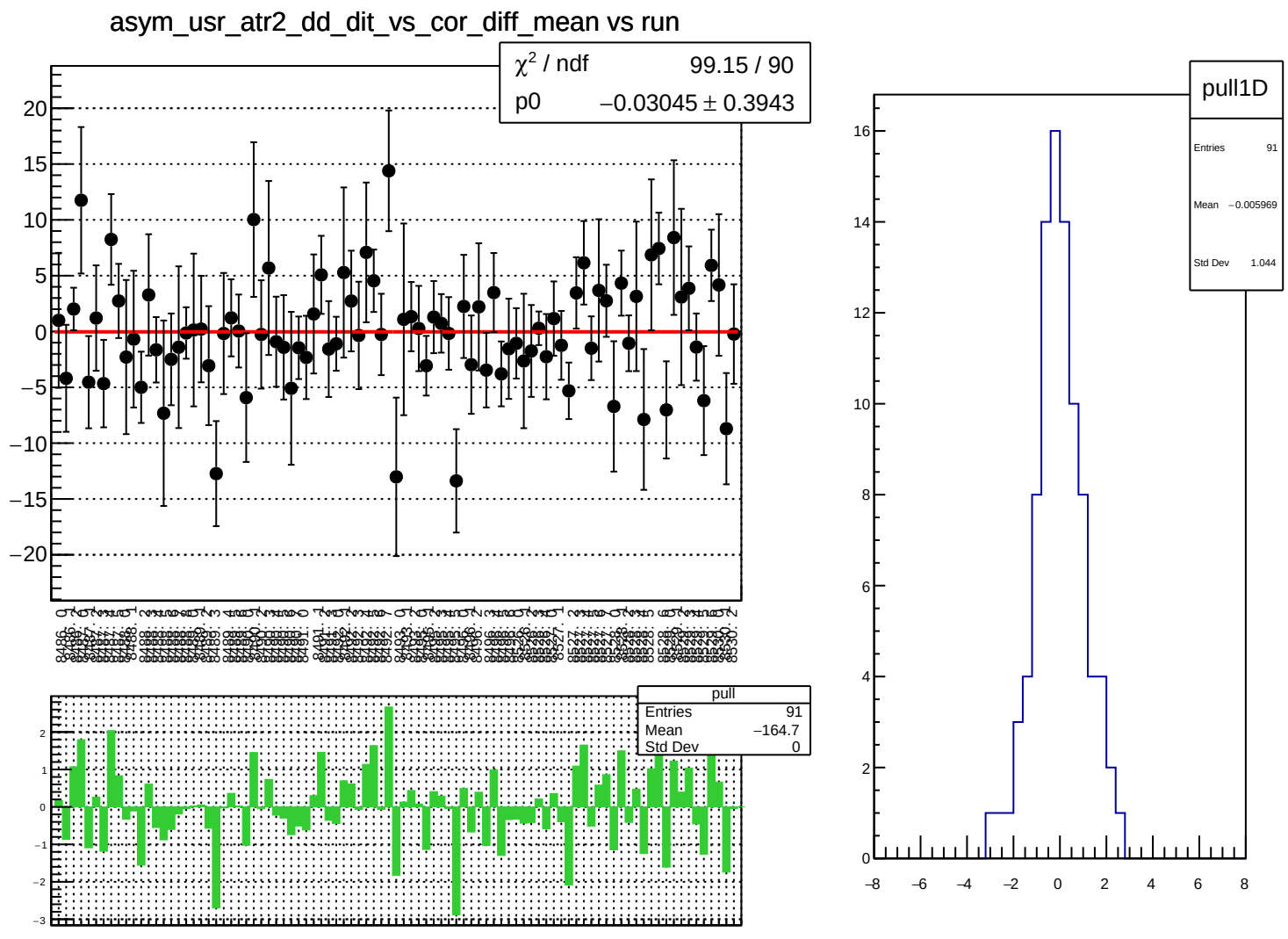

pull1D
Entries 91
Mean −0.008937
Std Dev 0.9529

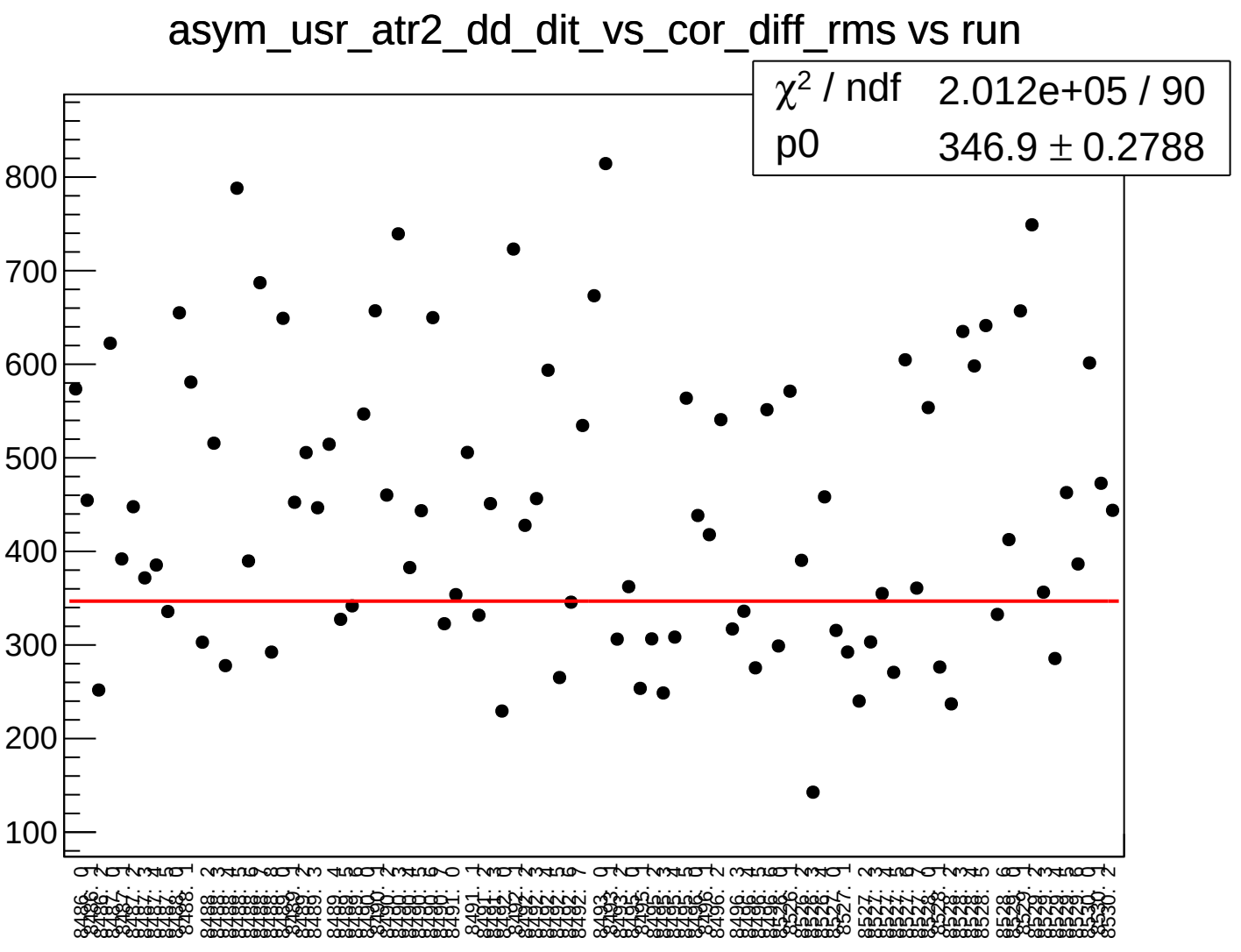

asym_usr_atr2_dd_rms vs run
χ² / ndf 97.88 / 90
p0 2e+04 ± 15.12
20400
20200
20000
19800
19600
19400

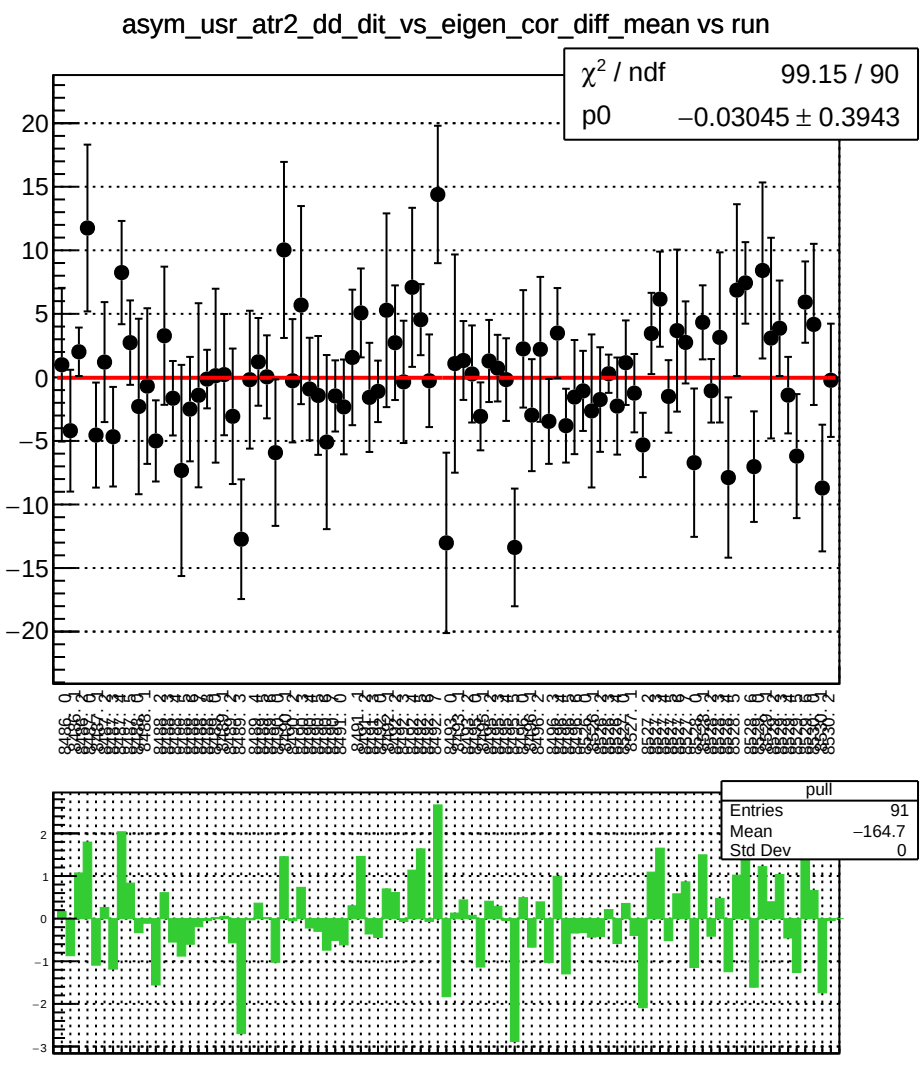

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 81.36 / 90
p0 1.054e−13 ± 2.163e−13
pull
Entries 91
Mean 44.95
Std Dev 13.3

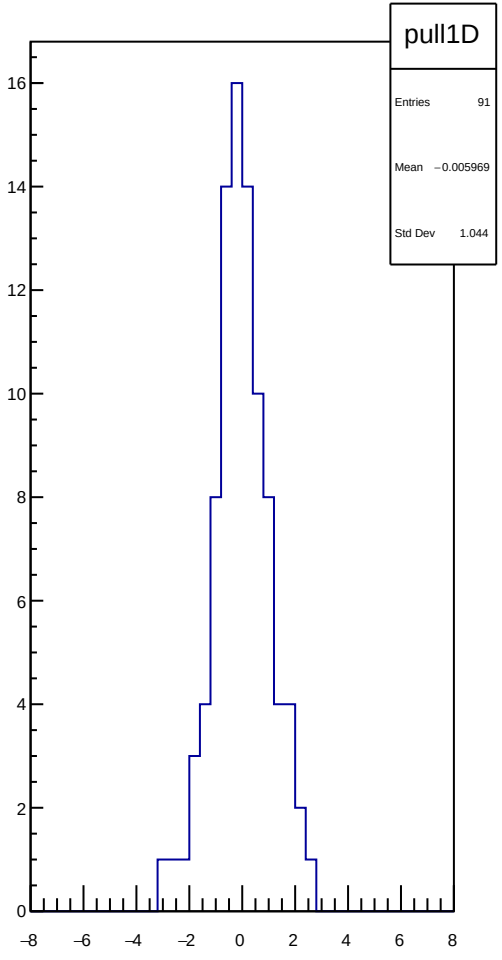

pull1D
Entries 91
Mean 0.1515
Std Dev 0.9333

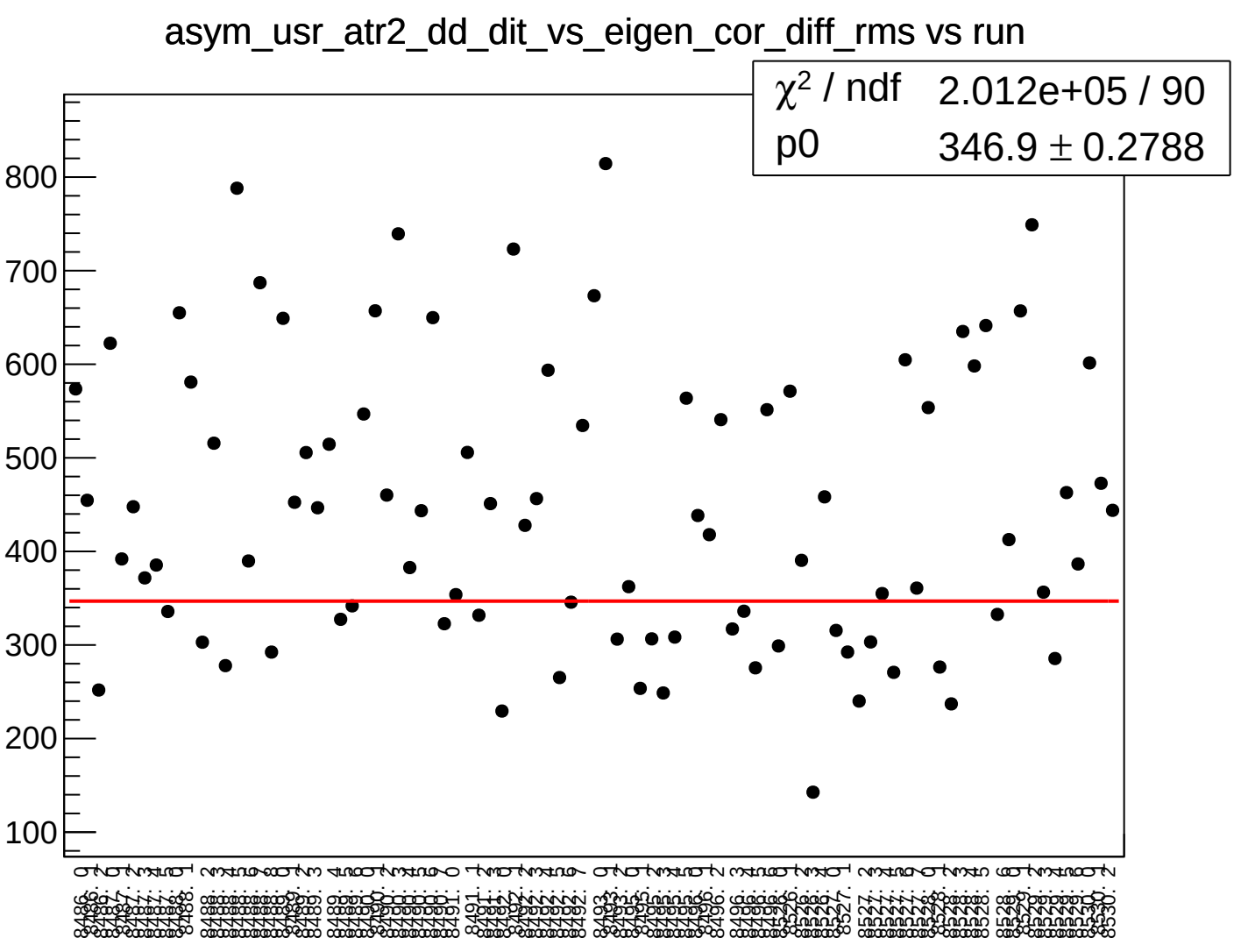

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.17e+06 / 90
p0 1.164e−10 ± 1.529e−13
0
2
4
6
8
10
12
14

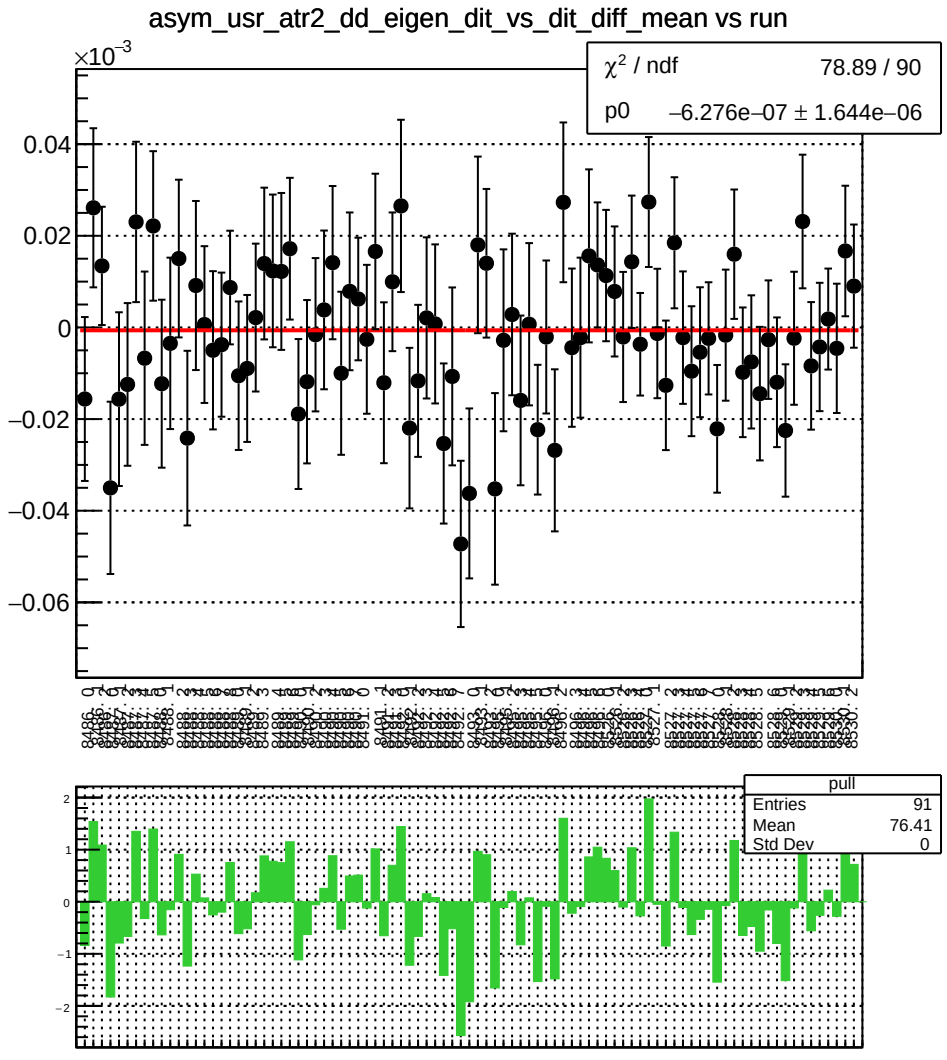

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 99.15 / 90
p0 −0.03045 ± 0.3943
pull
Entries 91
Mean −164.7
Std Dev 0
pull1D
Entries 91
Mean −0.005969
Std Dev 1.044

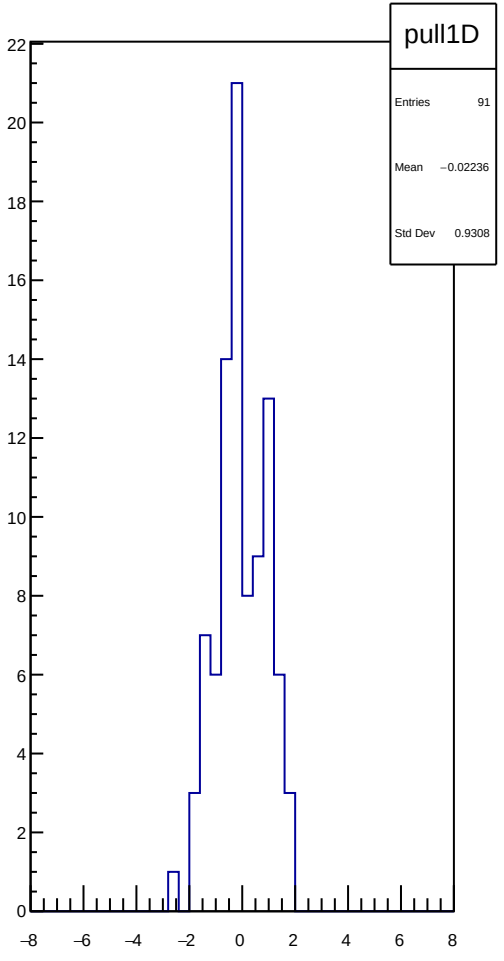

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.012e+05 / 90
p0 346.9 ± 0.2788
800
700
600
500
400
300
200
100

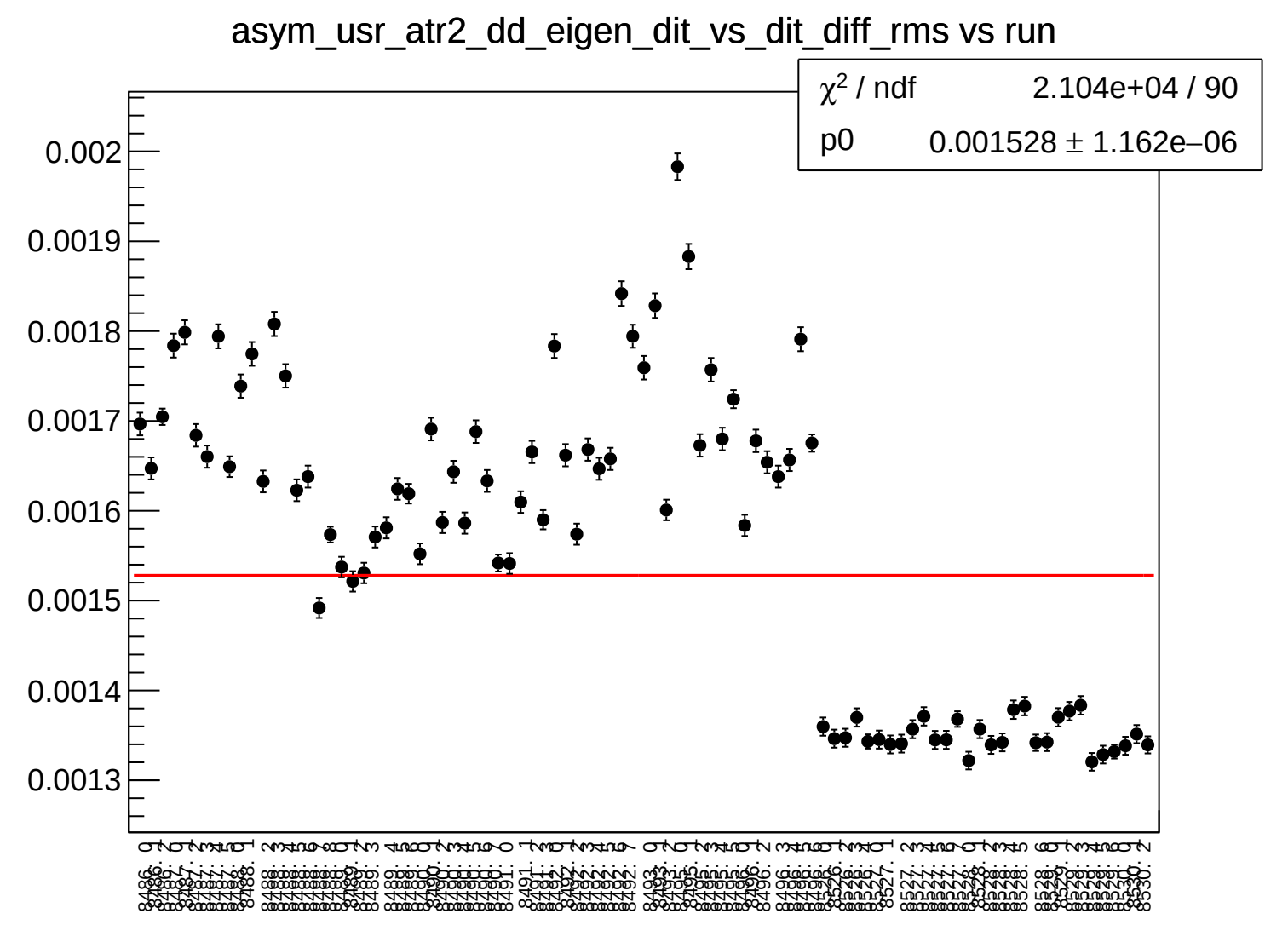

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.15 / 90
p0 −0.03045 ± 0.3943
pull
Entries 91
Mean −164.7
Std Dev 0

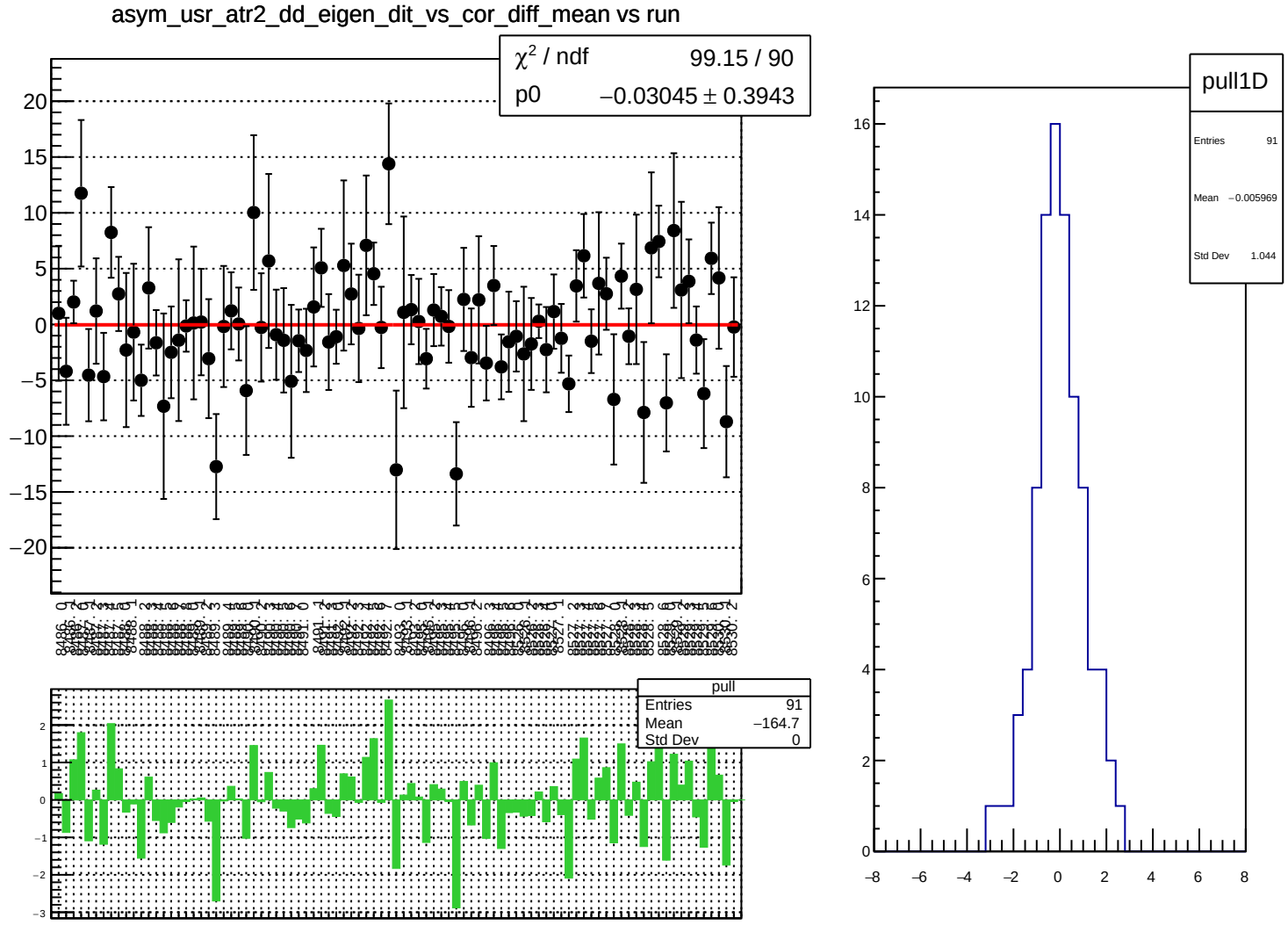

pull1D
Entries 91
Mean −0.005969
Std Dev 1.044

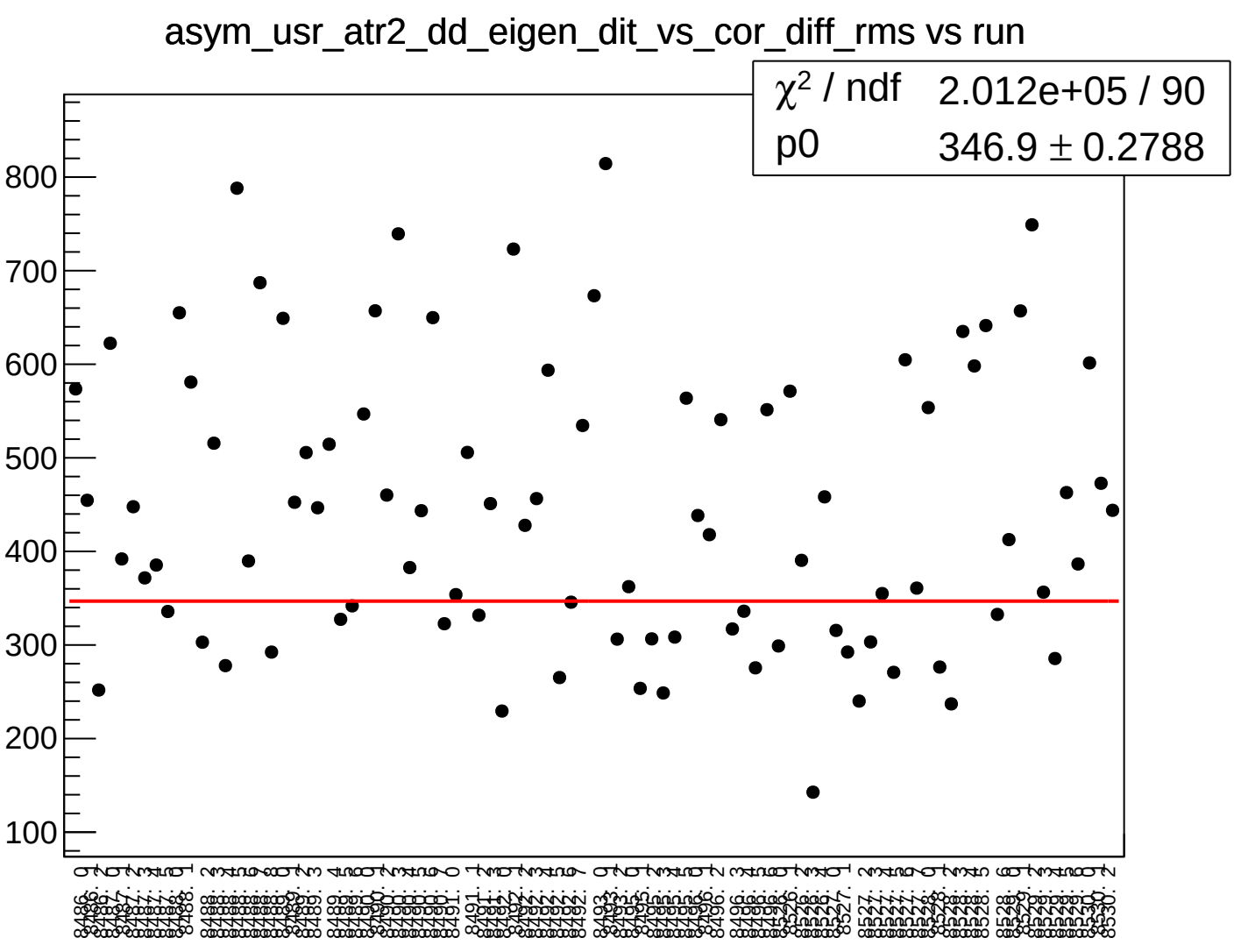

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.012e+05 / 90
p0 346.9 ± 0.2788
800
700
600
500
400
300
200
100

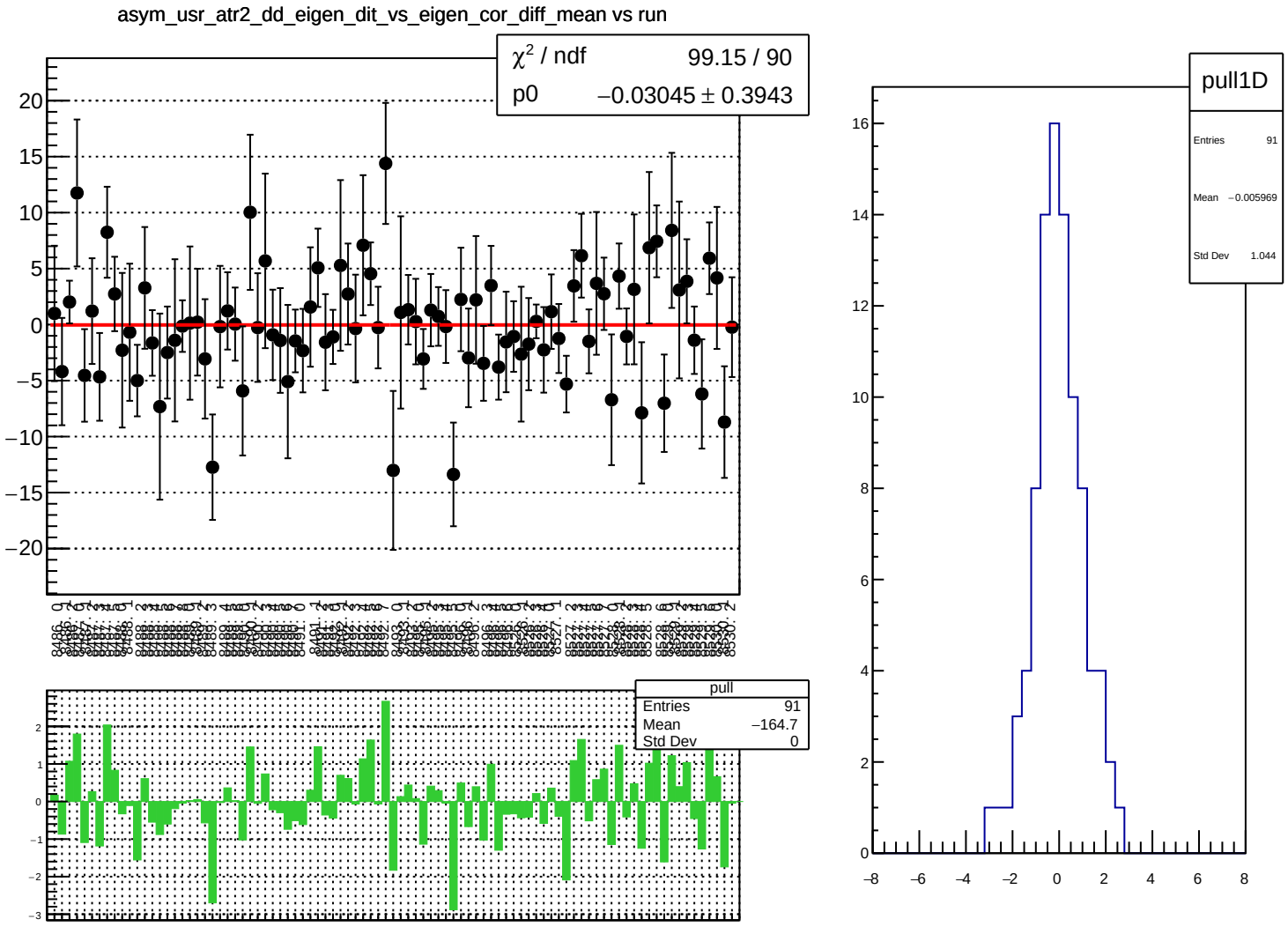

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.89 / 90
p0 −6.276e−07 ± 1.644e−06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 91
Mean 76.41
Std Dev 0
2
1
0
−1
−2

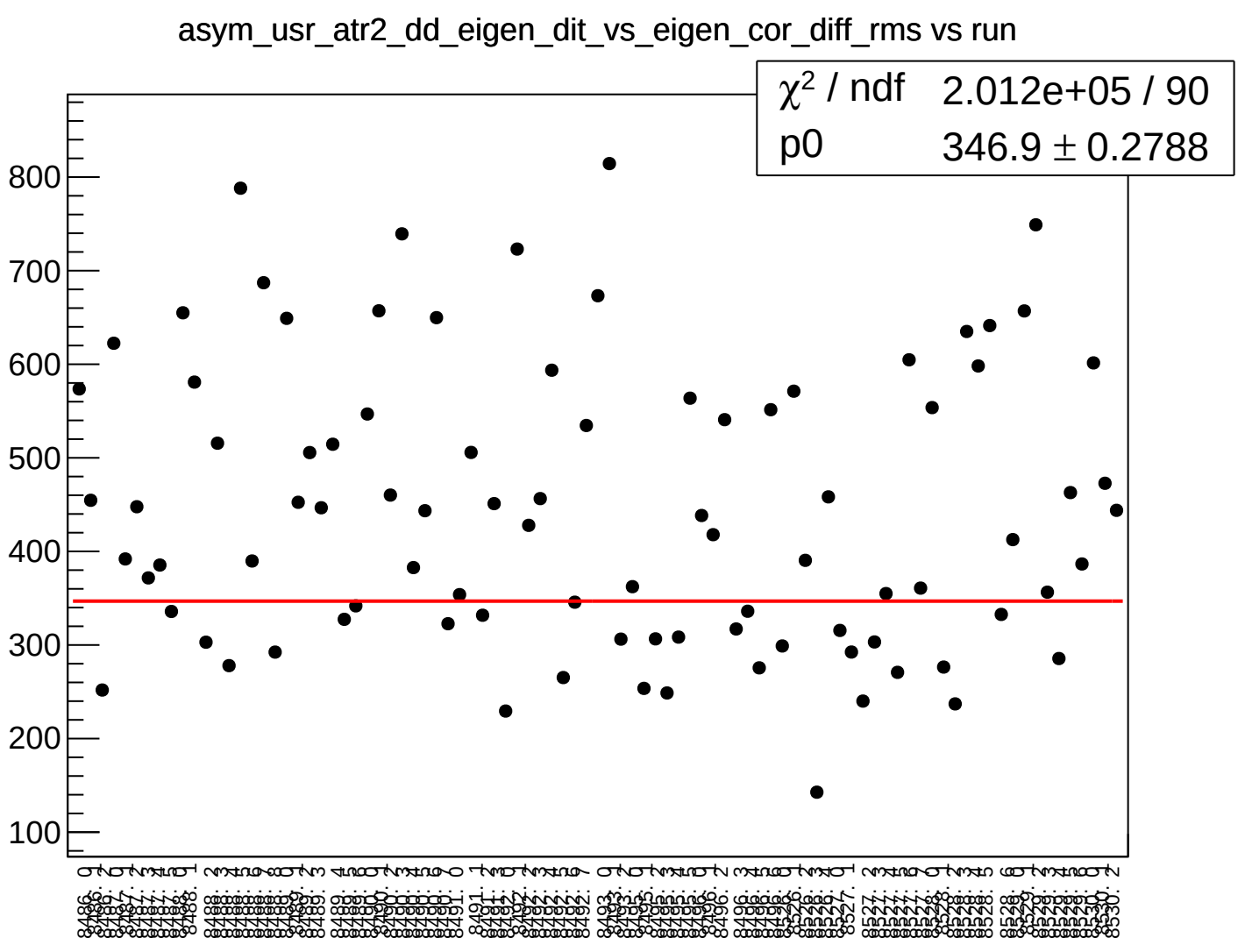

pull1D
Entries 91
Mean −0.02236
Std Dev 0.9308
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

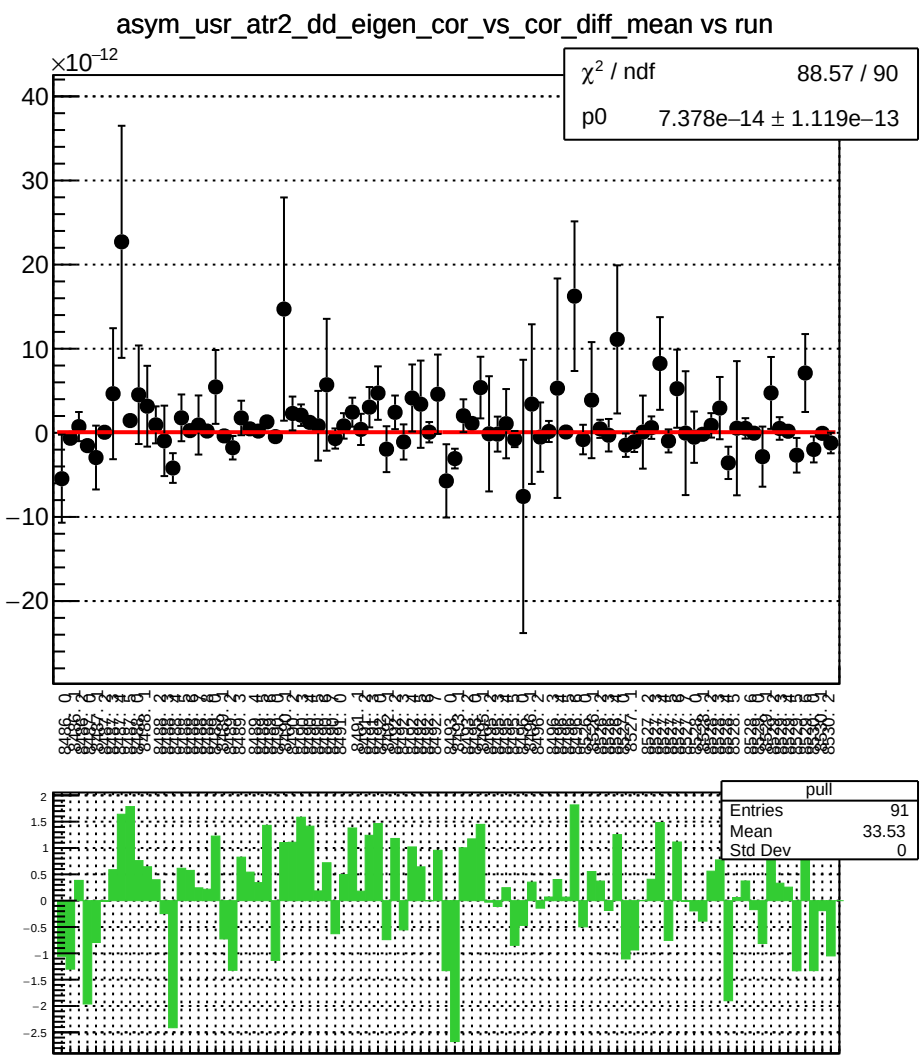

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.104e+04 / 90
p0 0.001528 ± 1.162e−06
0.002
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013

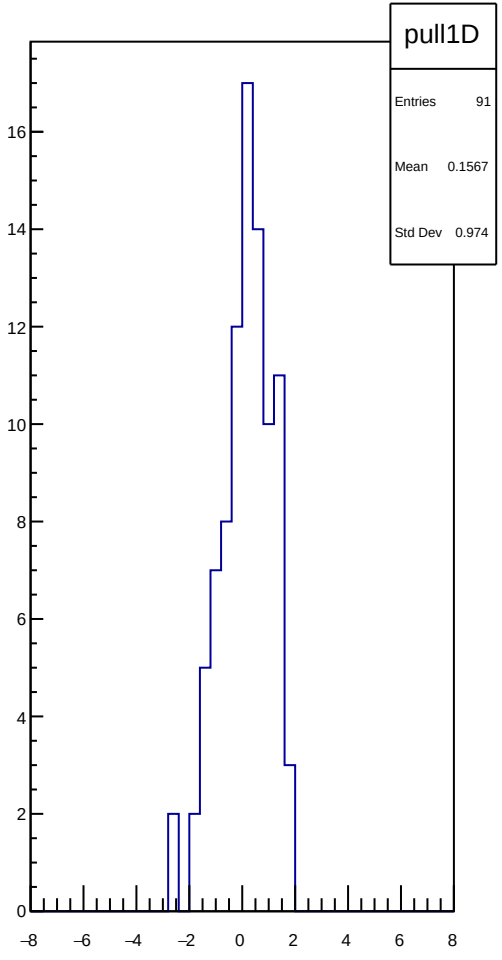

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.15 / 90
p0 −0.03045 ± 0.3943
pull
Entries 91
Mean −164.7
Std Dev 0
pull1D
Entries 91
Mean −0.005969
Std Dev 1.044

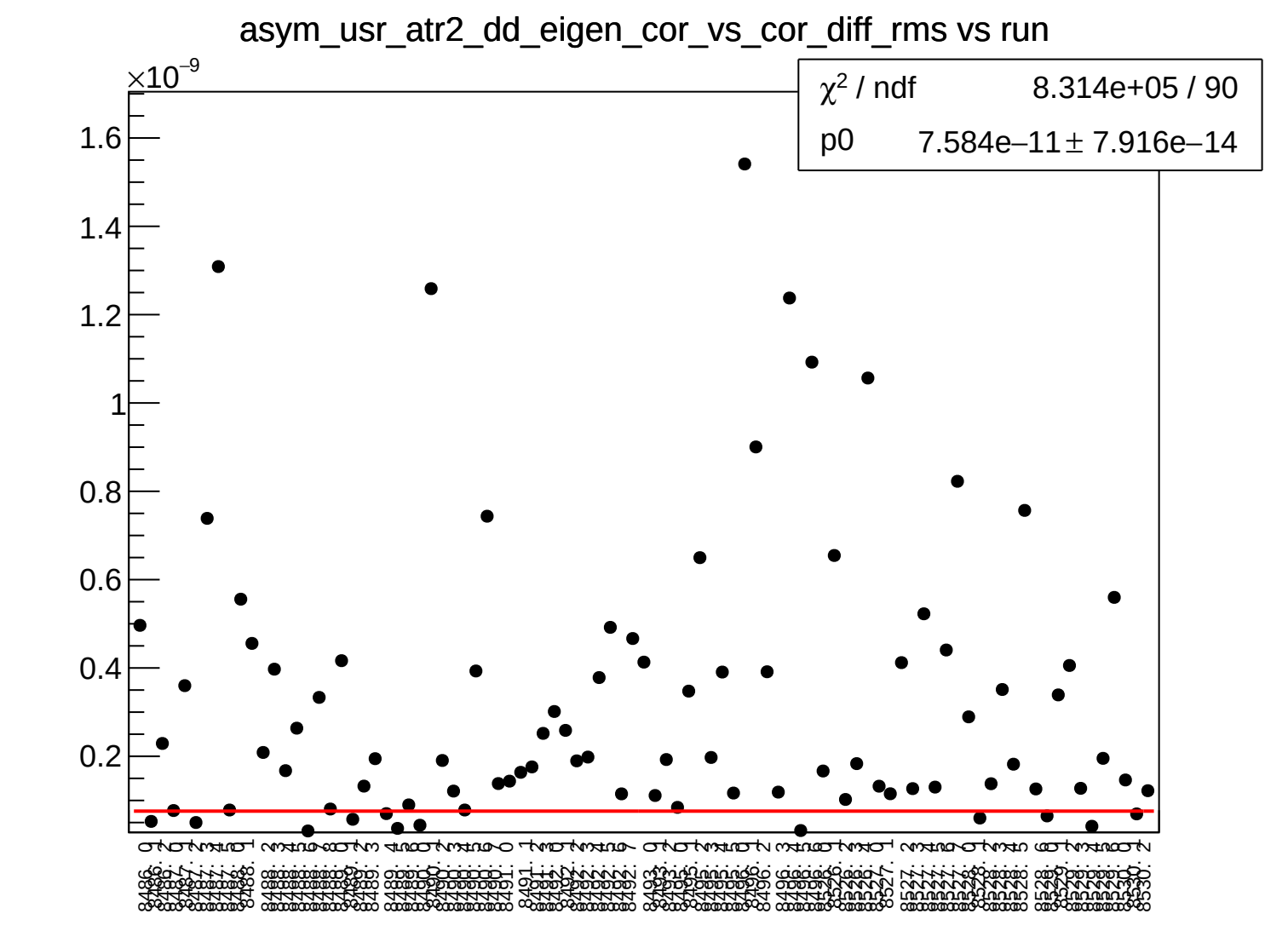

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.012e+05 / 90
p0 346.9 ± 0.2788
800
700
600
500
400
300
200
100

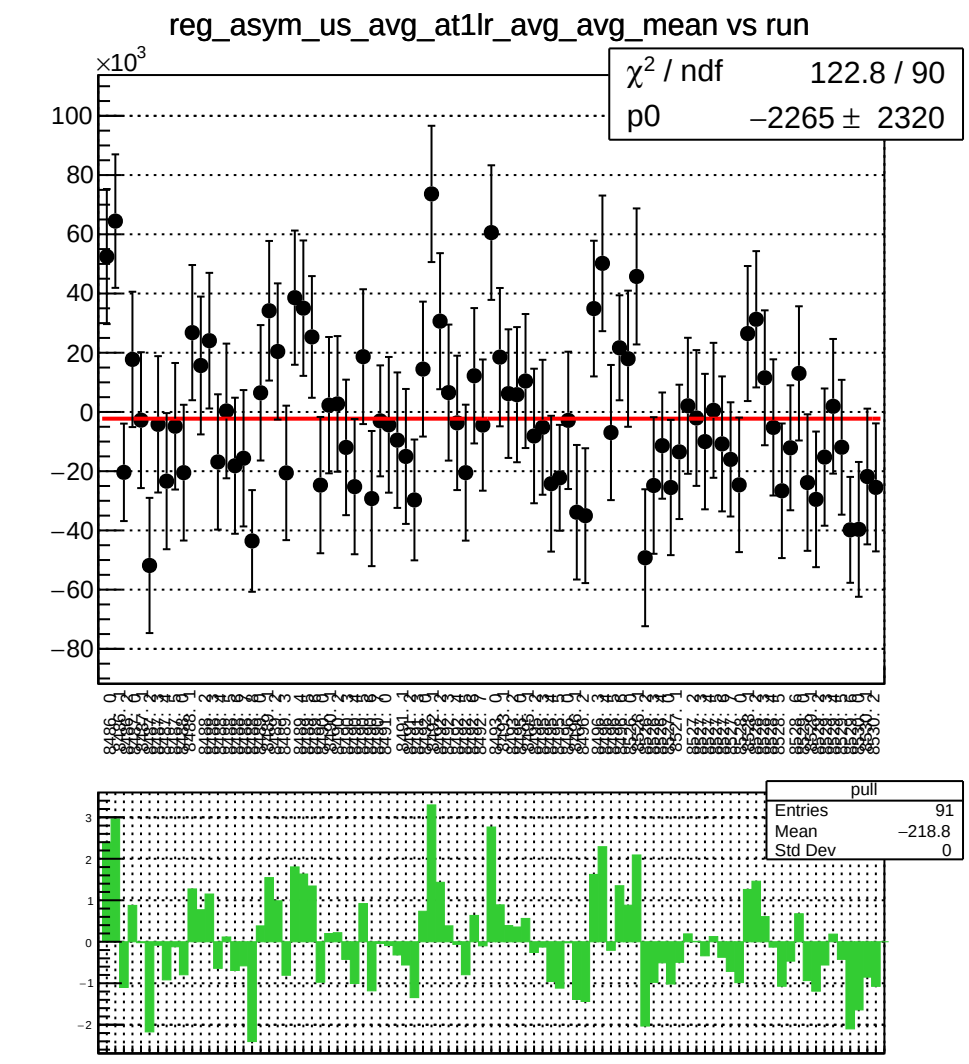

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.15 / 90
p0 −0.03045 ± 0.3943
pull
Entries 91
Mean −164.7
Std Dev 0
pull1D
Entries 91
Mean −0.005969
Std Dev 1.044

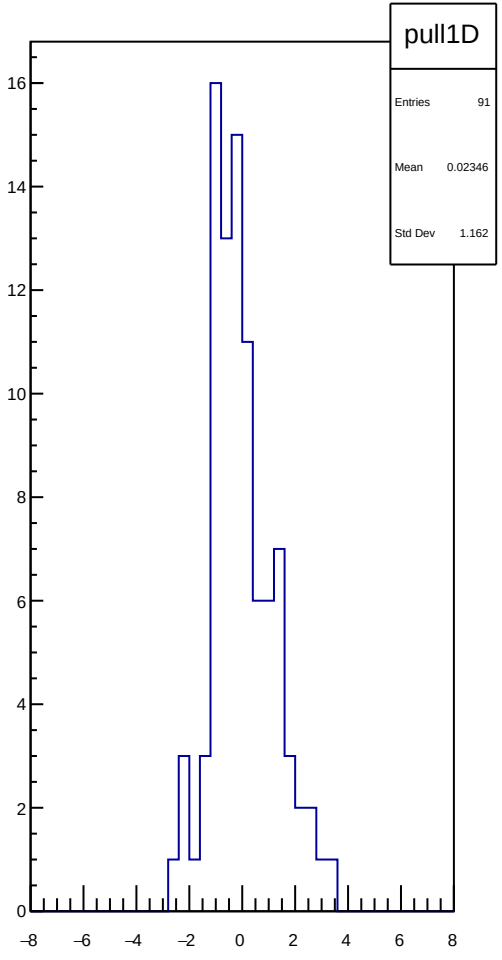

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.012e+05 / 90
p0 346.9 ± 0.2788
800
700
600
500
400
300
200
100

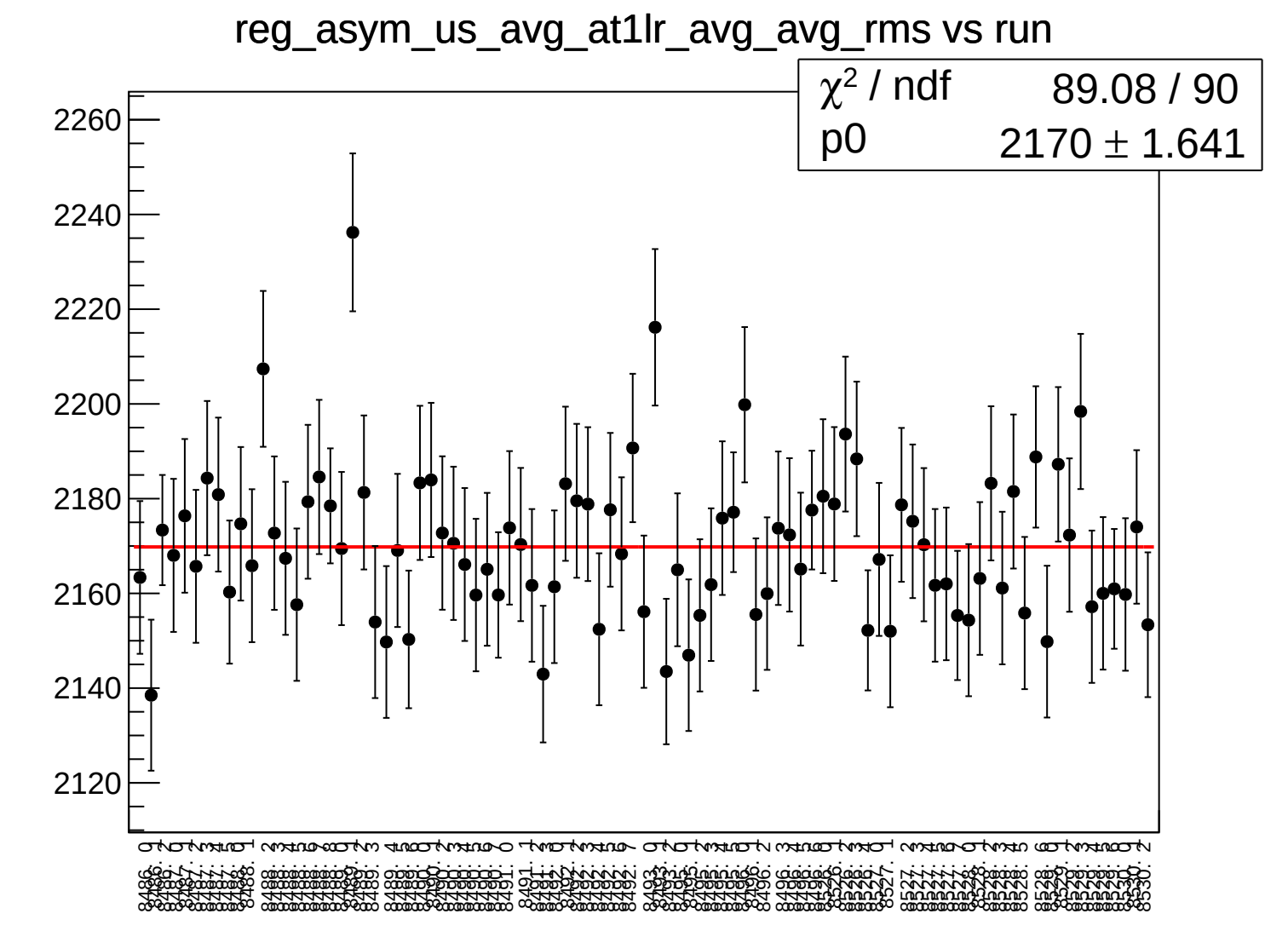

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.57 / 90
p0 7.378e−14 ± 1.119e−13
pull
Entries 91
Mean 33.53
Std Dev 0

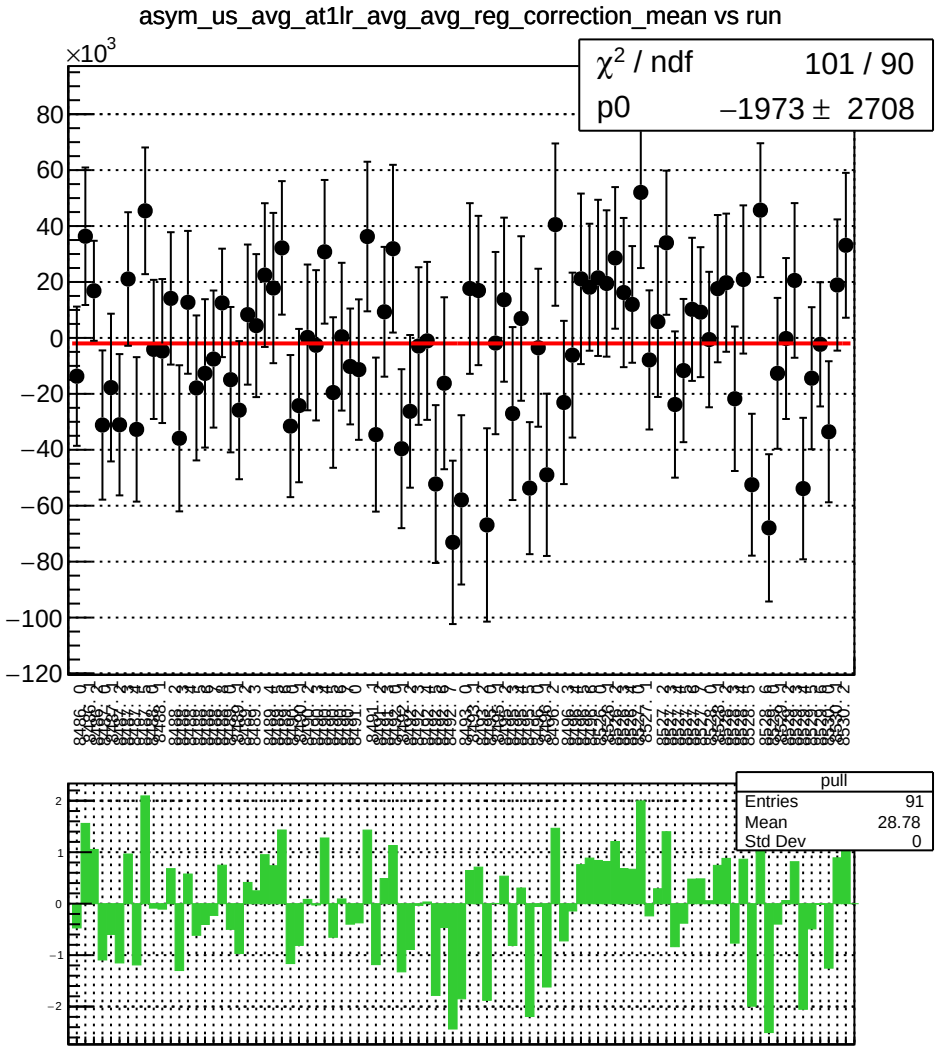

pull1D
Entries 91
Mean 0.1567
Std Dev 0.974

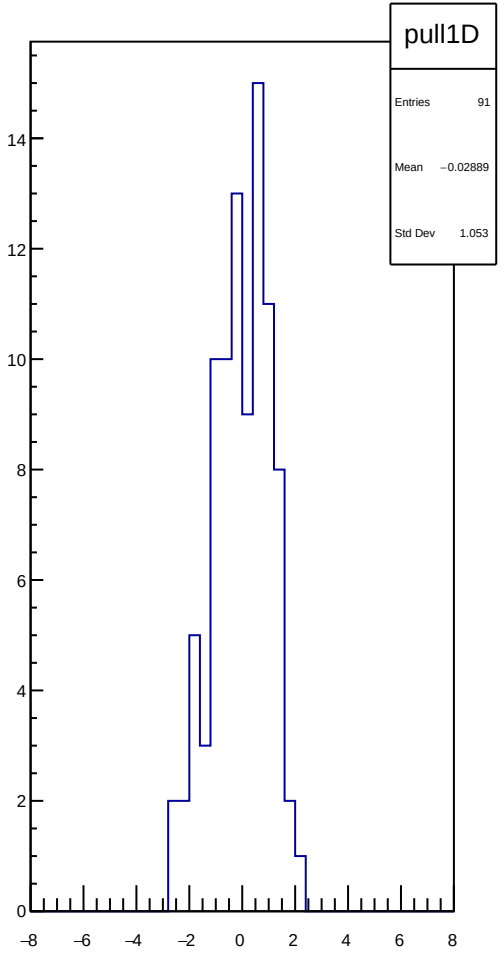

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.314e+05 / 90
p0 7.584e−11 ± 7.916e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

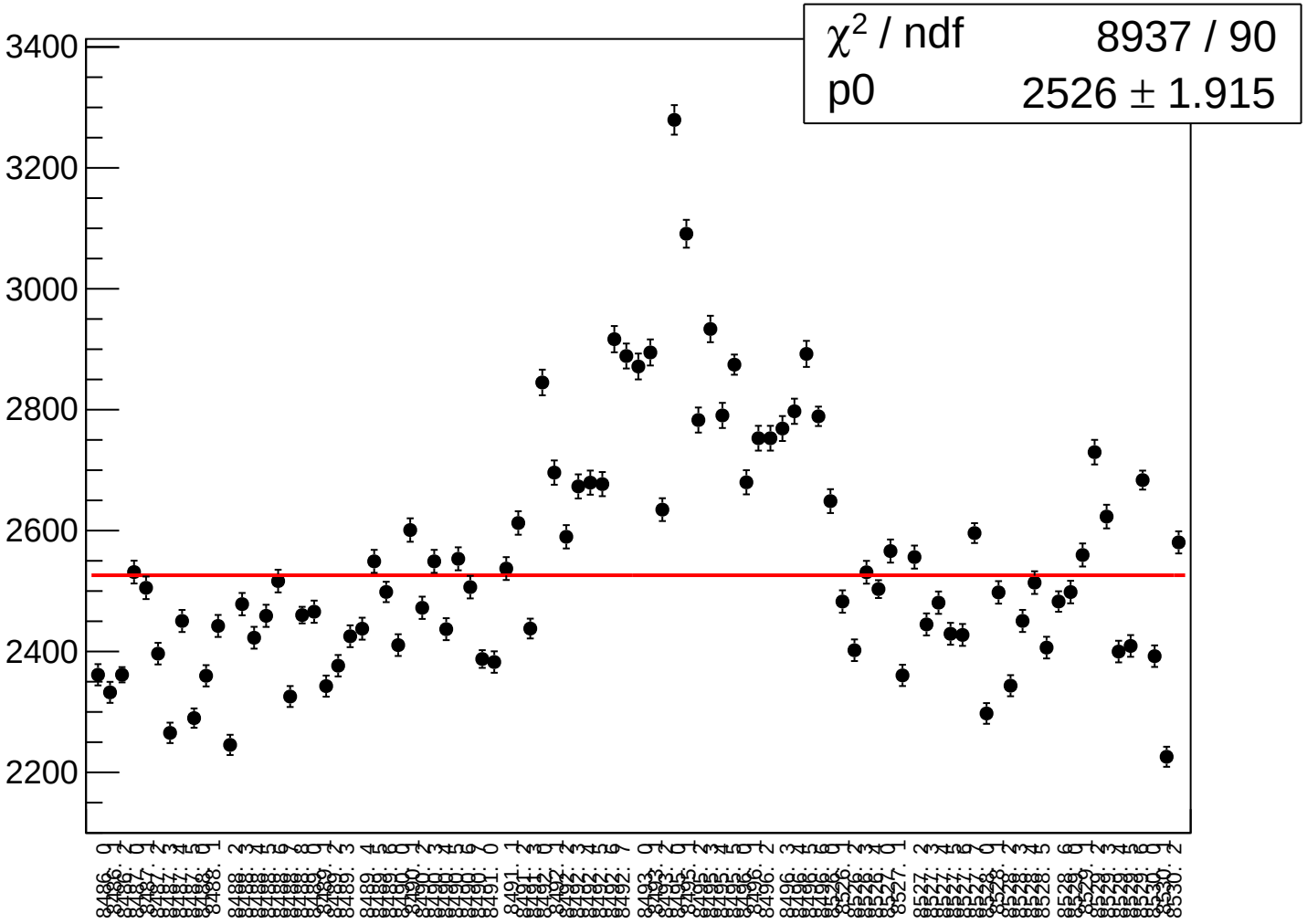

reg_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 122.8 / 90
p0 −2265 ± 2320
pull
Entries 91
Mean −218.8
Std Dev 0

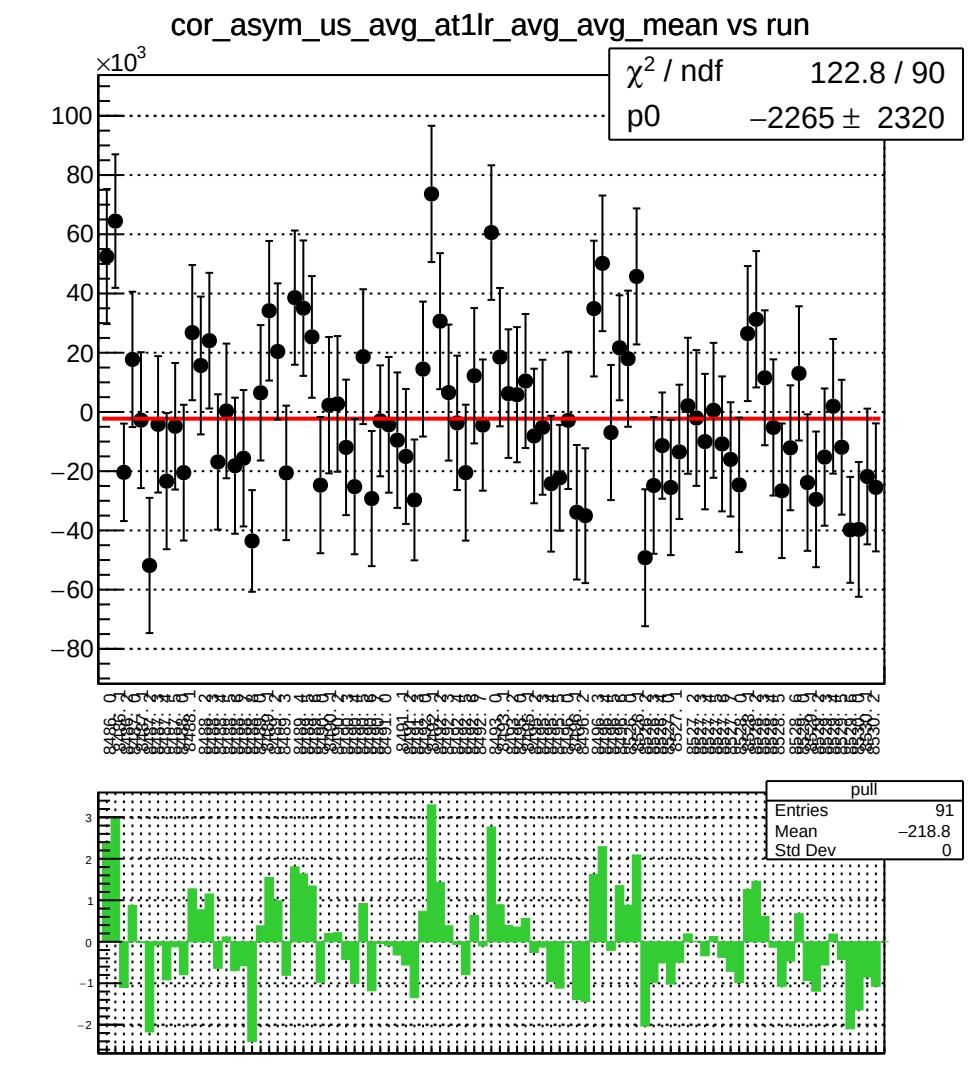

pull1D
Entries 91
Mean 0.02346
Std Dev 1.162

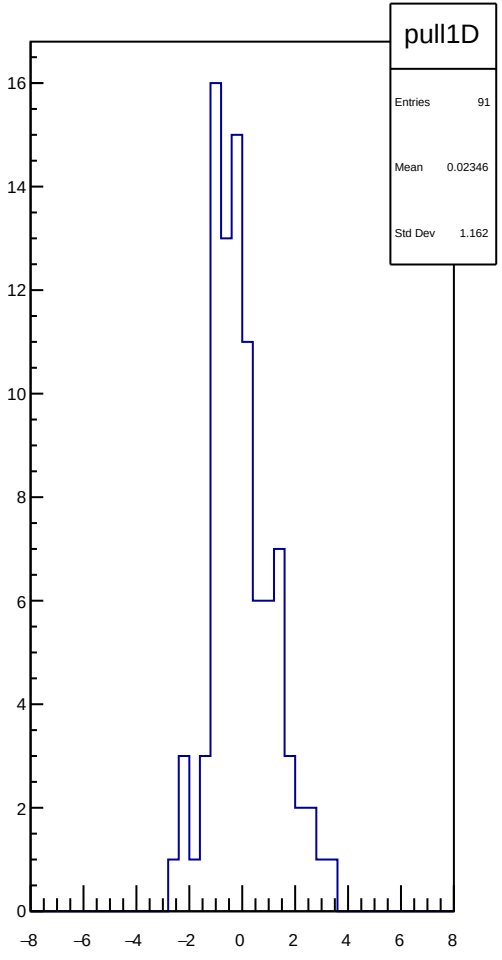

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 89.08 / 90
p0 2170 ± 1.641
2260
2240
2220
2200
2180
2160
2140
2120

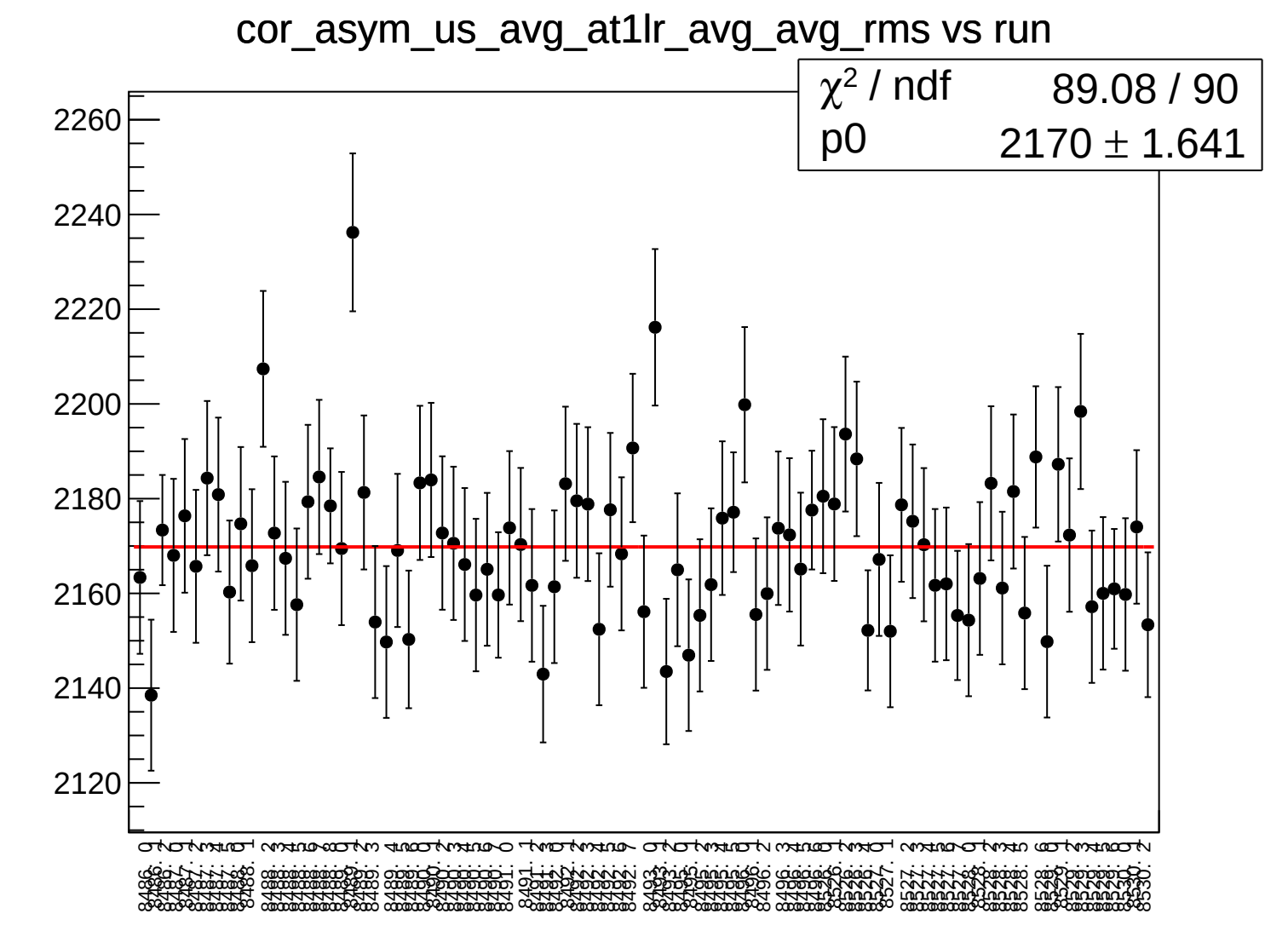

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 101 / 90
p0 −1973 ± 2708
pull
Entries 91
Mean 28.78
Std Dev 0

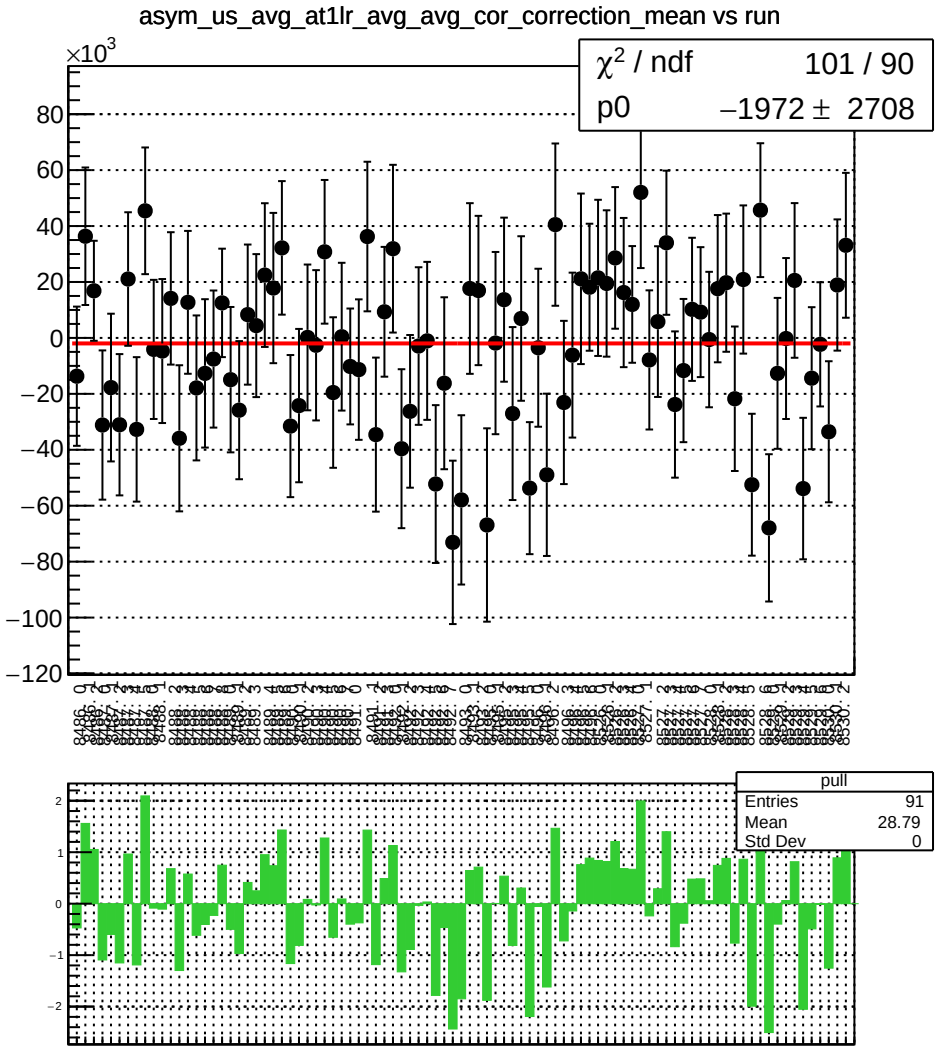

pull1D
Entries 91
Mean −0.02889
Std Dev 1.053

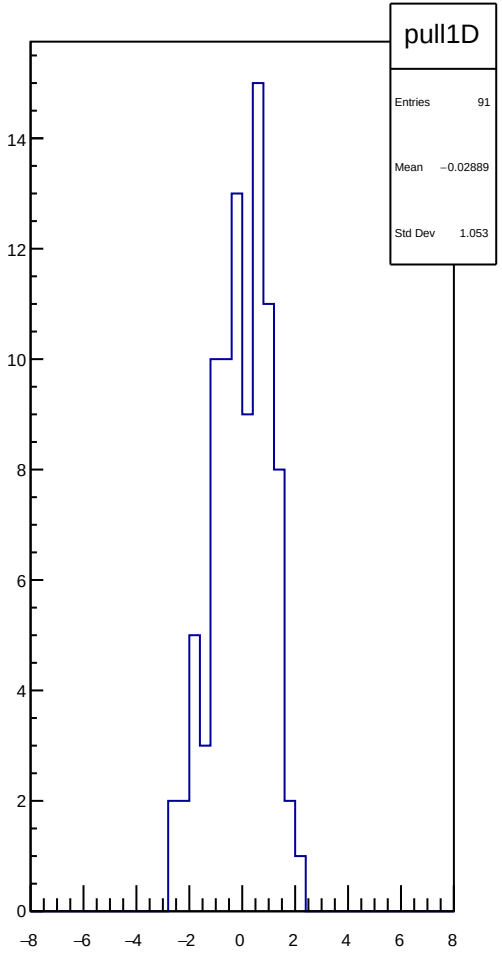

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 8937 / 90
p0 2526 ± 1.915
3400
3200
3000
2800
2600
2400
2200

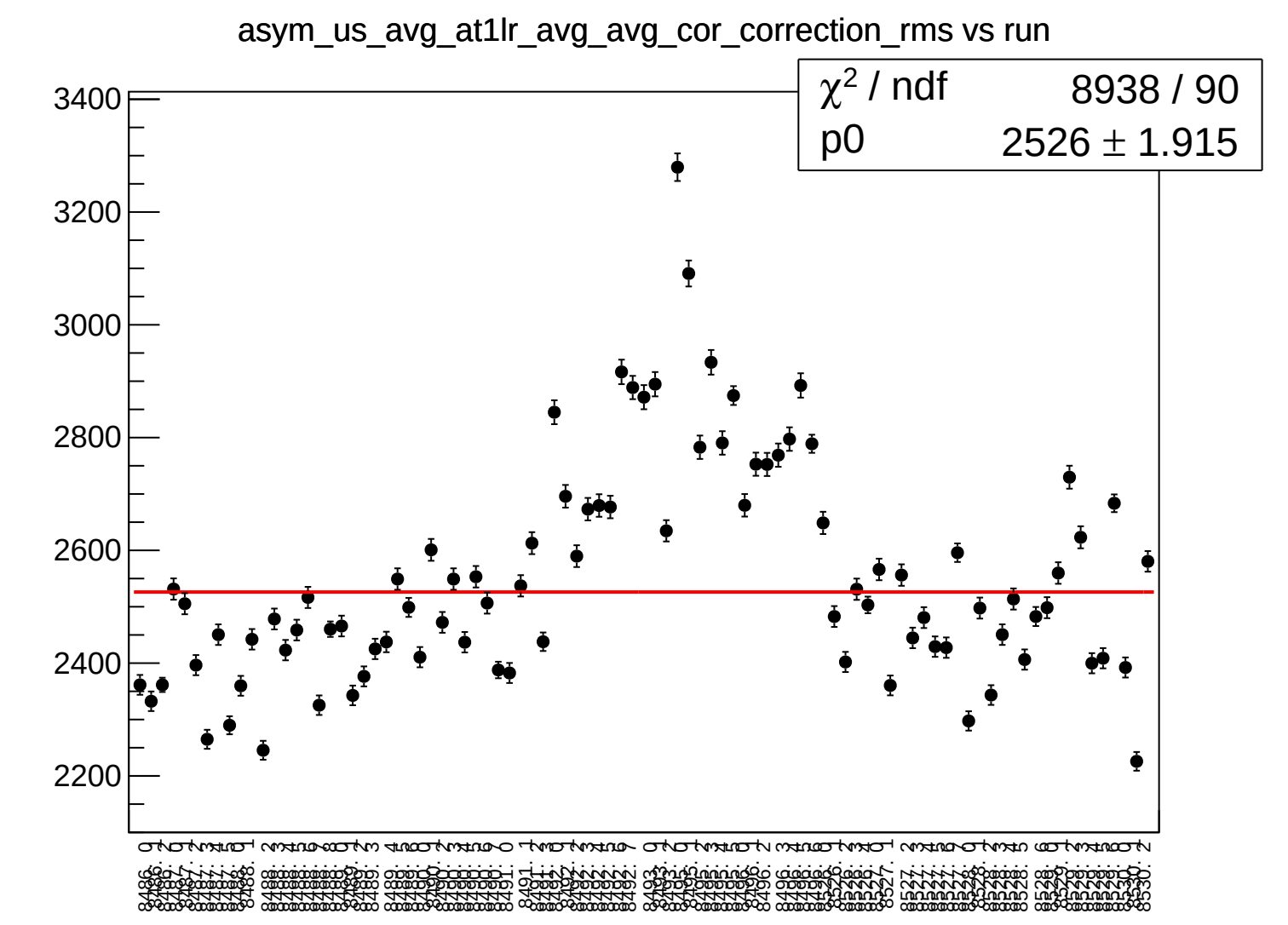

cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 122.8 / 90
p0 −2265 ± 2320
pull
Entries 91
Mean −218.8
Std Dev 0

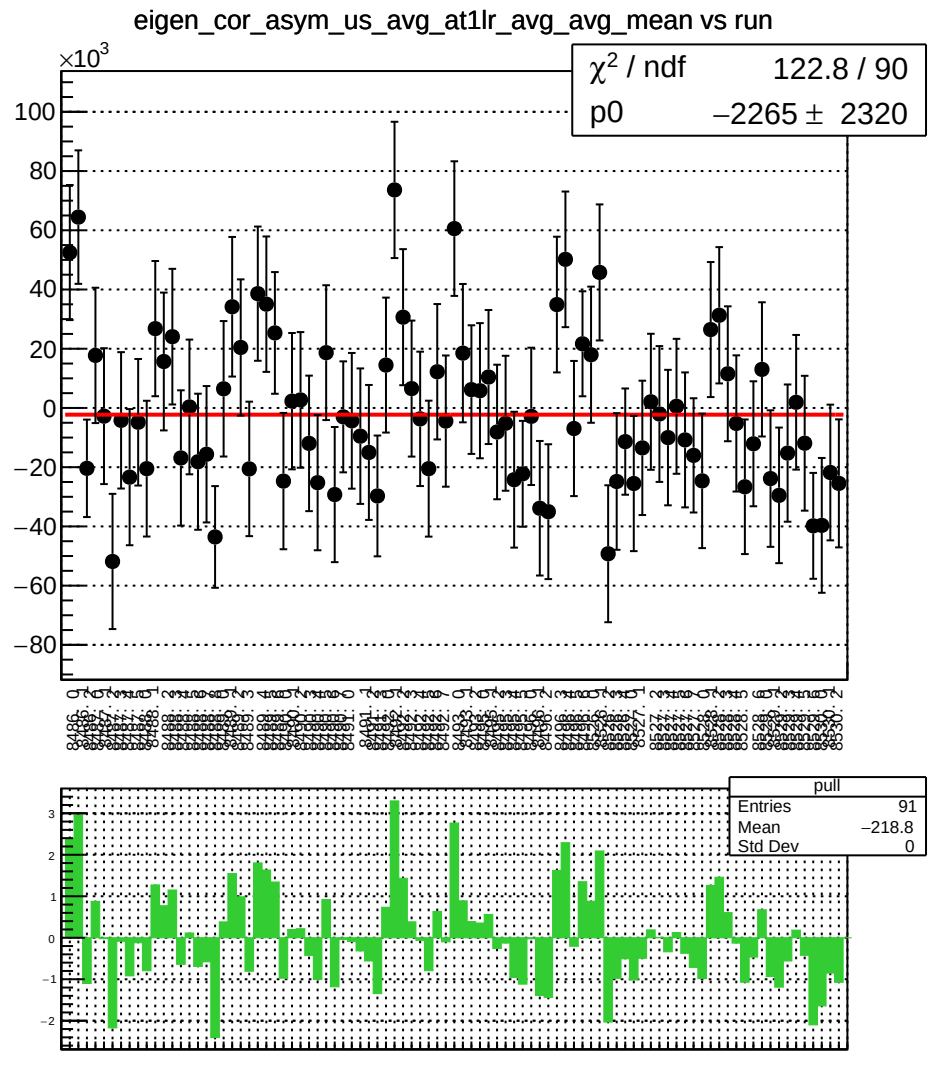

pull1D
Entries 91
Mean 0.02346
Std Dev 1.162

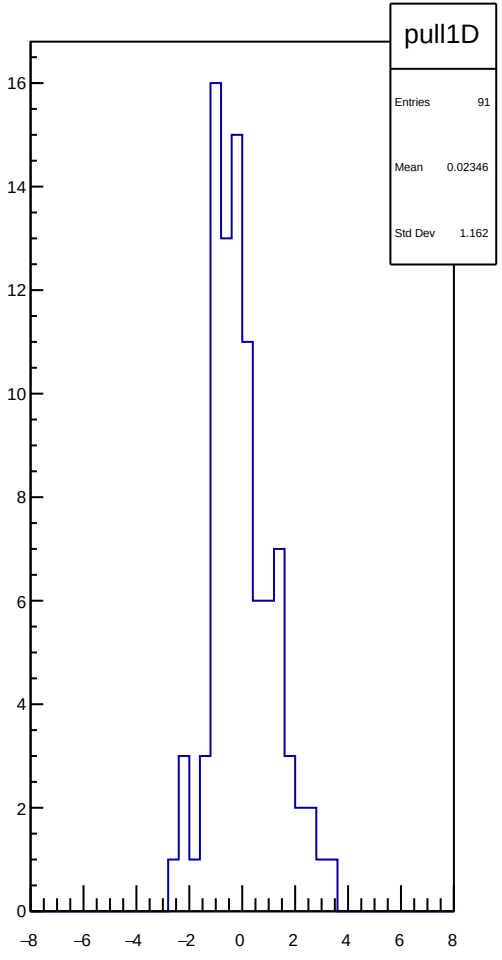

cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 89.08 / 90
p0 2170 ± 1.641
2260
2240
2220
2200
2180
2160
2140
2120

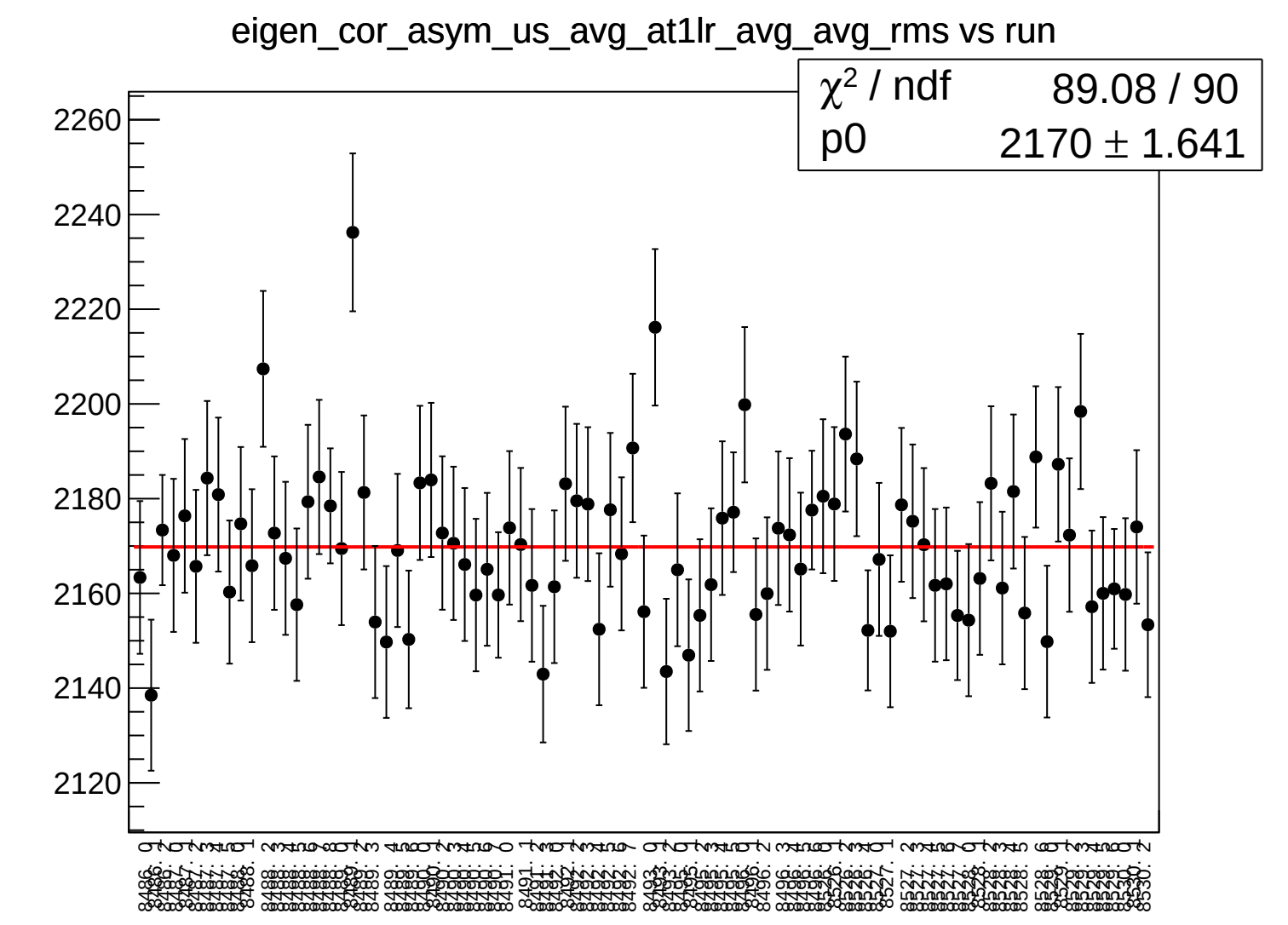

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 101 / 90
p0 −1972 ± 2708
pull
Entries 91
Mean 28.79
Std Dev 0

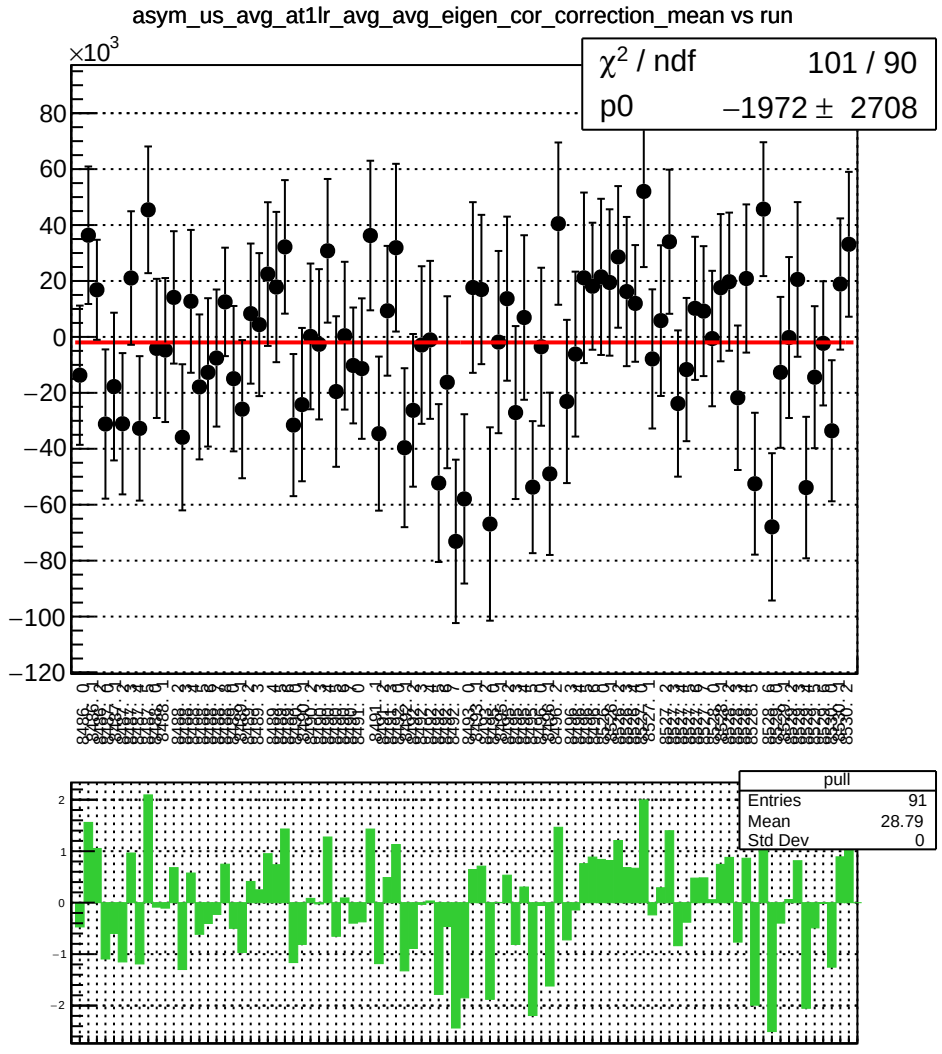

pull1D
Entries 91
Mean −0.02889
Std Dev 1.053

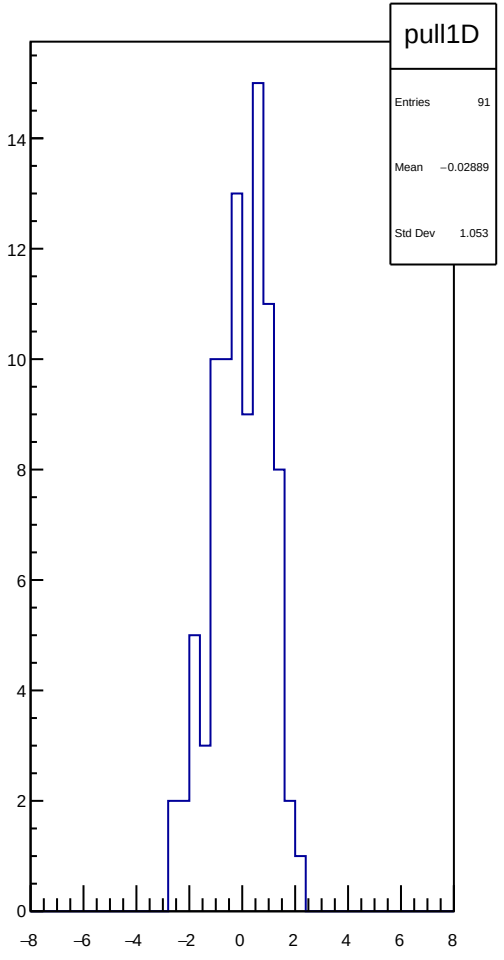

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 8938 / 90
p0 2526 ± 1.915
3400
3200
3000
2800
2600
2400
2200

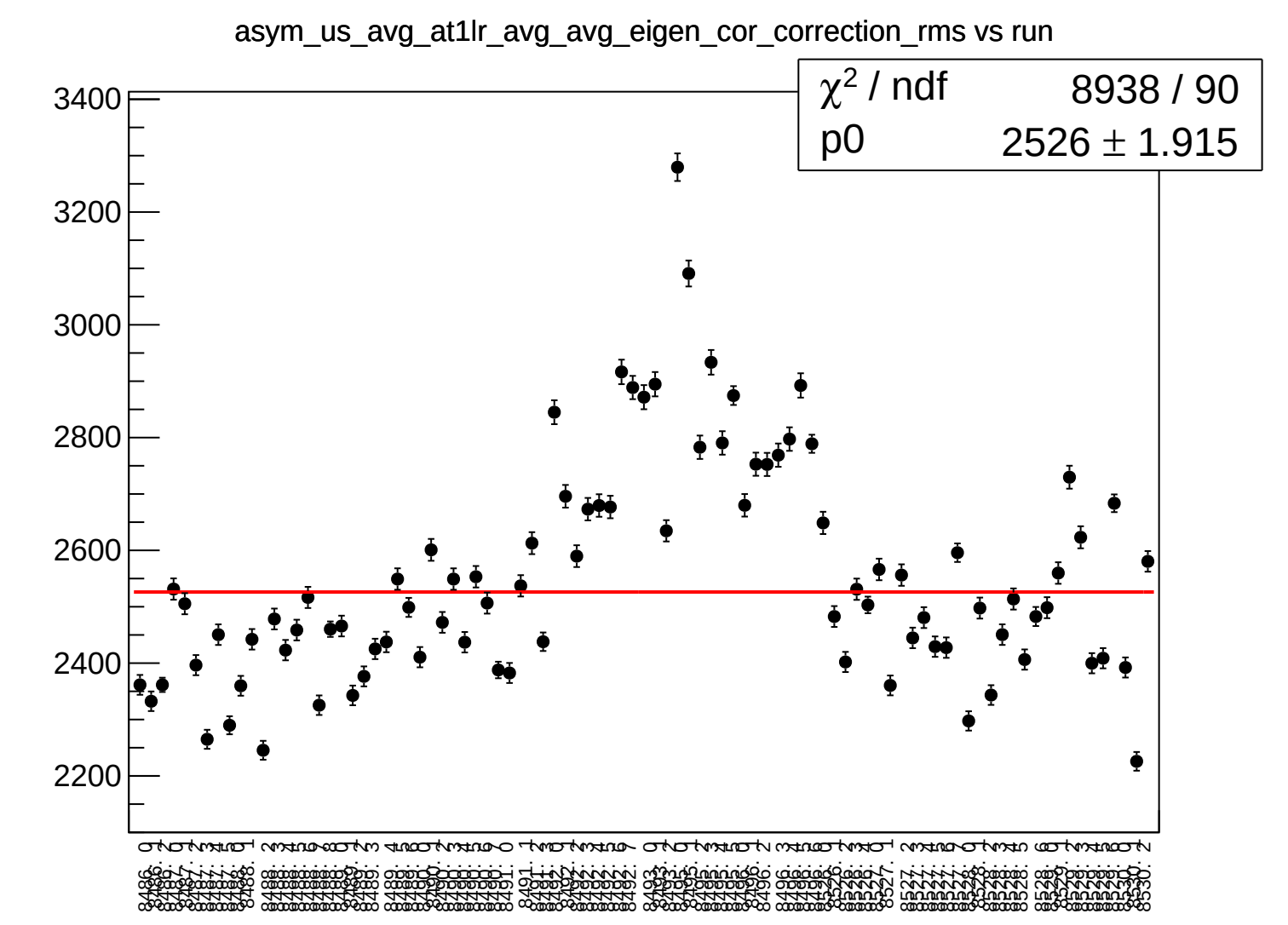

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 122.8 / 90
p0 −2265 ± 2320
pull
Entries 91
Mean −218.8
Std Dev 0

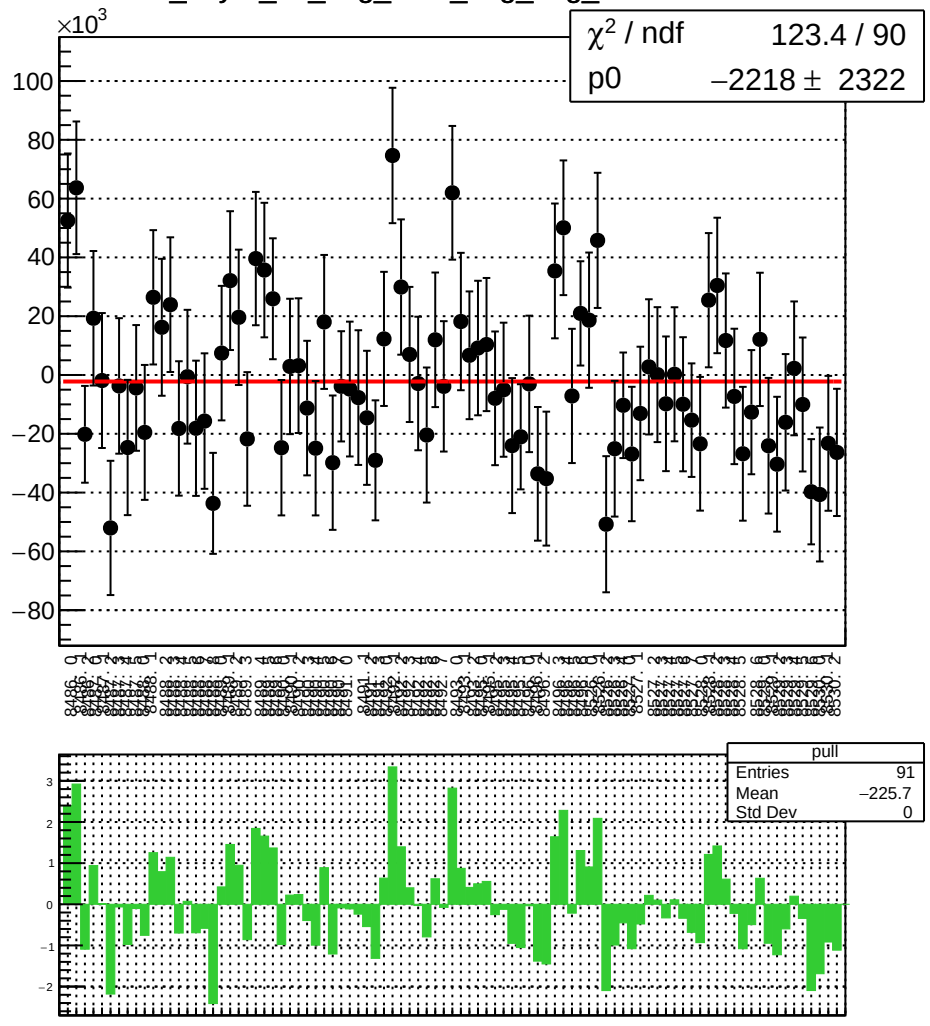

pull1D
Entries 91
Mean 0.02346
Std Dev 1.162

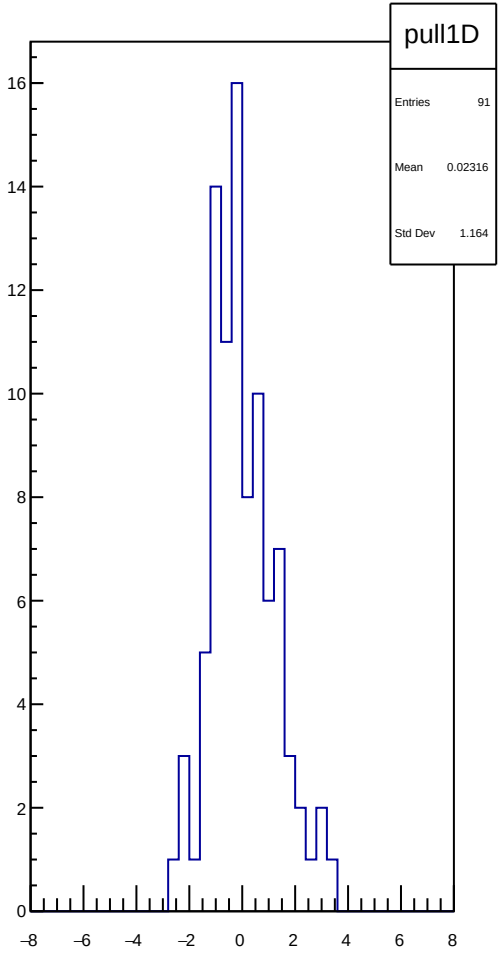

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ^2 / ndf 89.08 / 90
p0 2170 ± 1.641
2260
2240
2220
2200
2180
2160
2140
2120

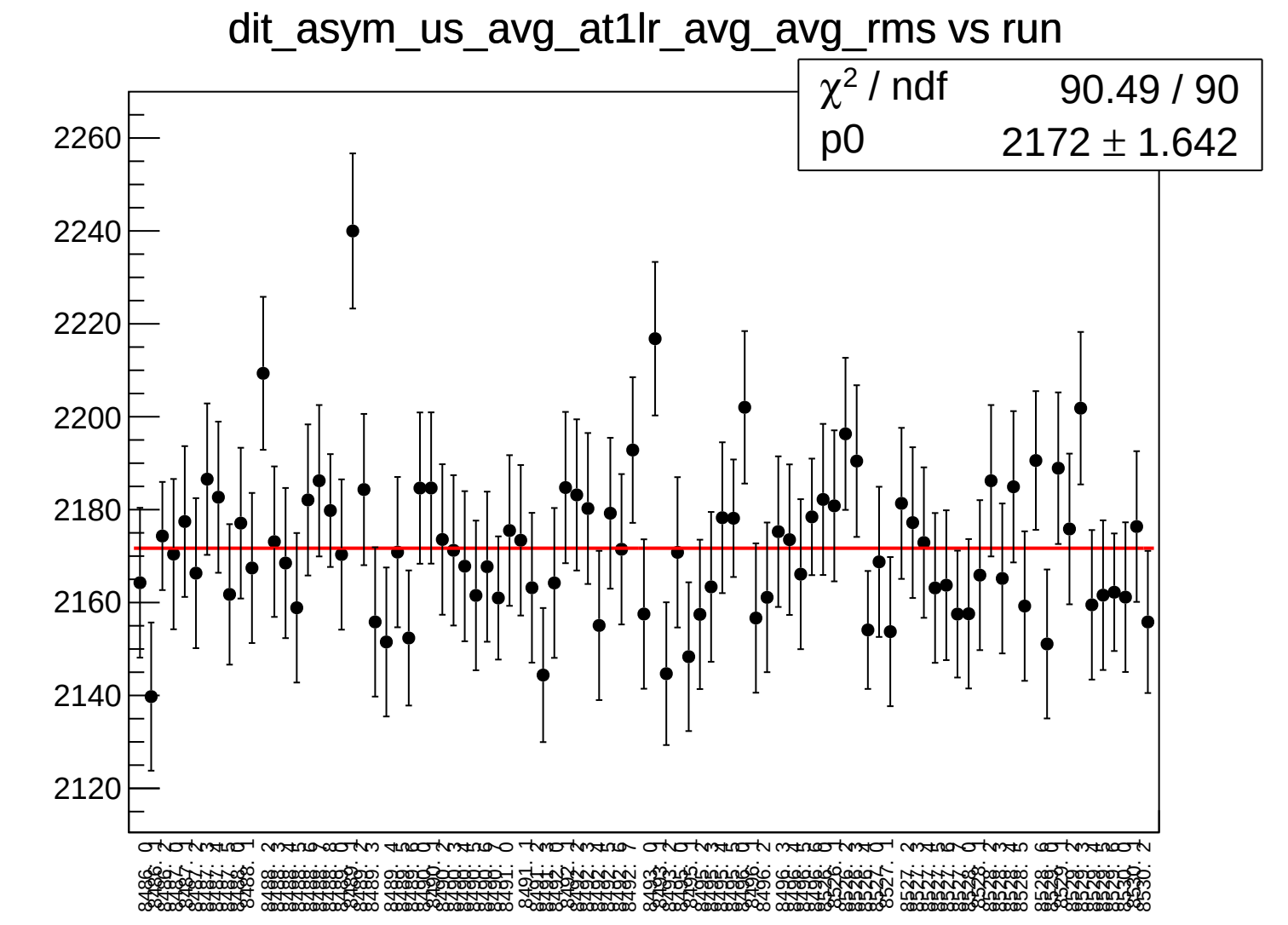

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 101 / 90
p0 −1972 ± 2708
pull
Entries 91
Mean 28.79
Std Dev 0

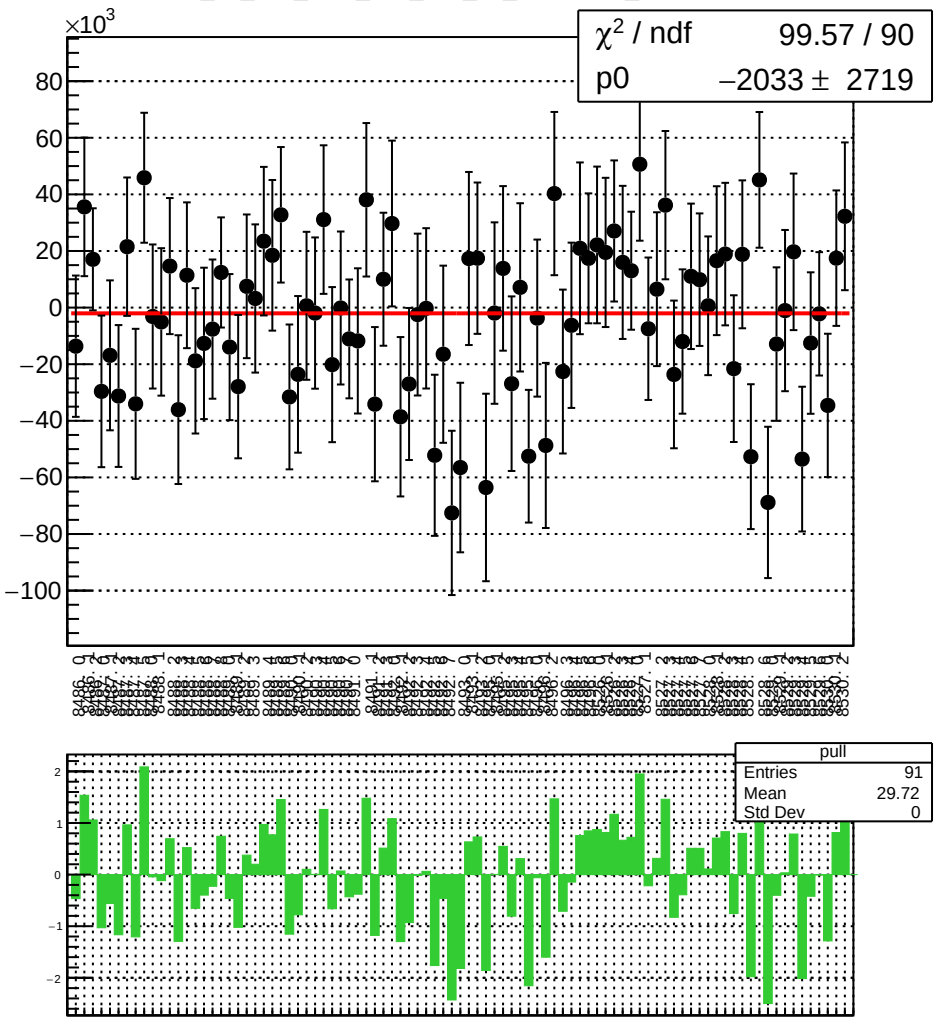

pull1D
Entries 91
Mean −0.02889
Std Dev 1.053

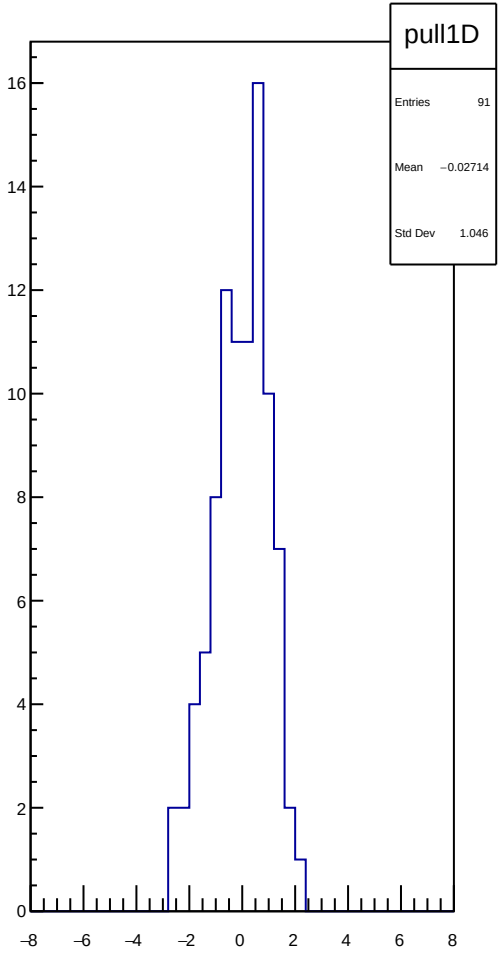

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 8938 / 90
p0 2526 ± 1.915
3400
3200
3000
2800
2600
2400
2200

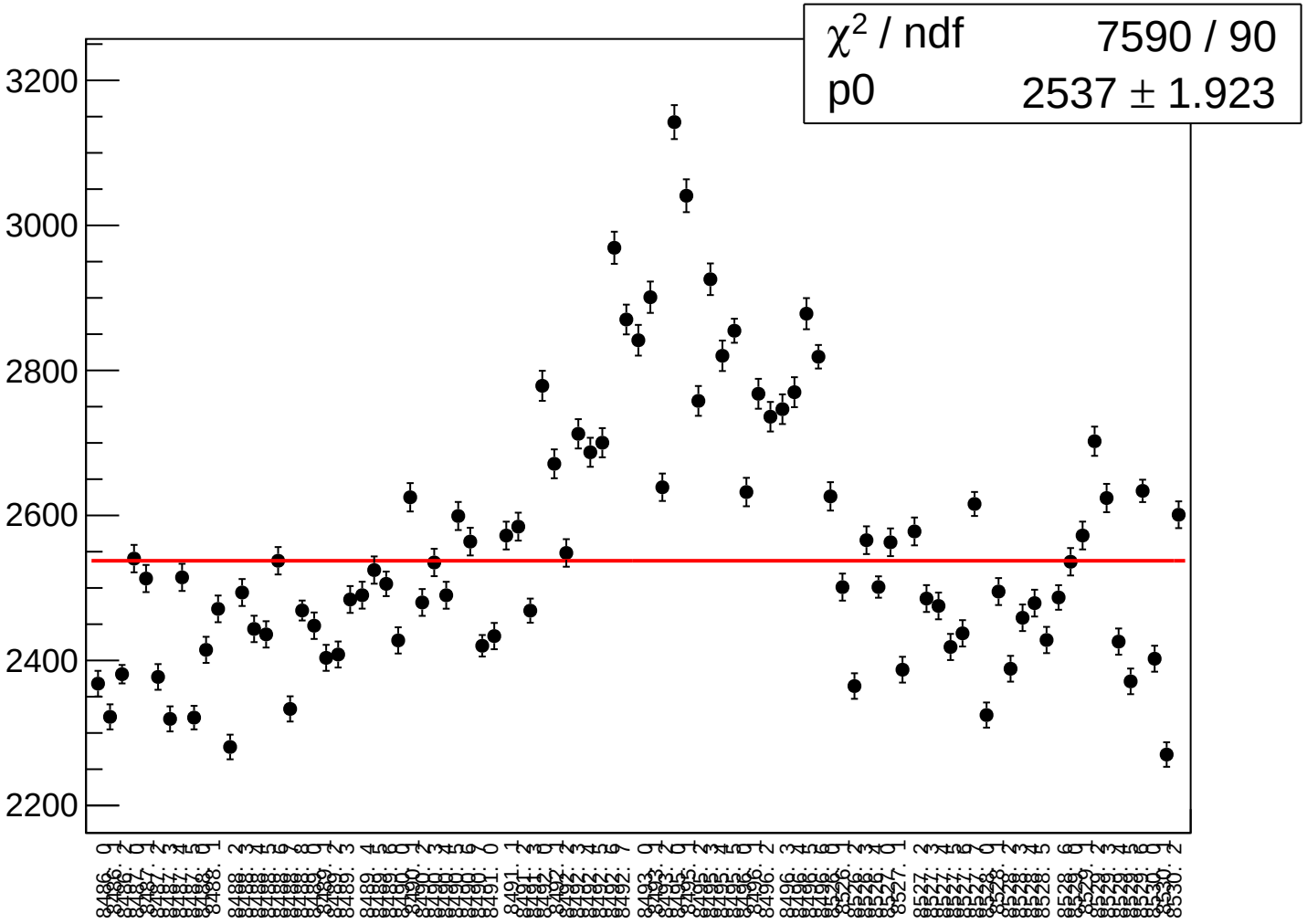

dit_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 123.4 / 90
p0 −2218 ± 2322
pull
Entries 91
Mean −225.7
Std Dev 0

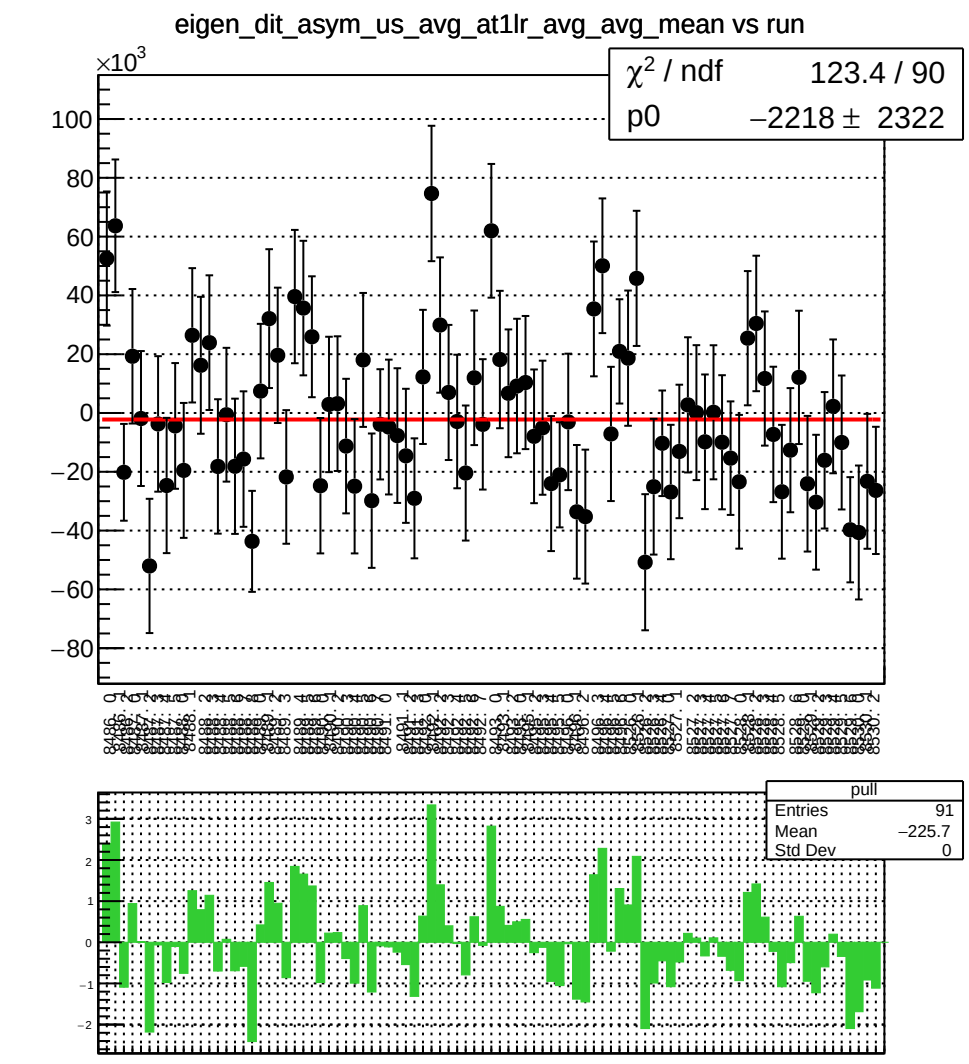

pull1D
Entries 91
Mean 0.02316
Std Dev 1.164

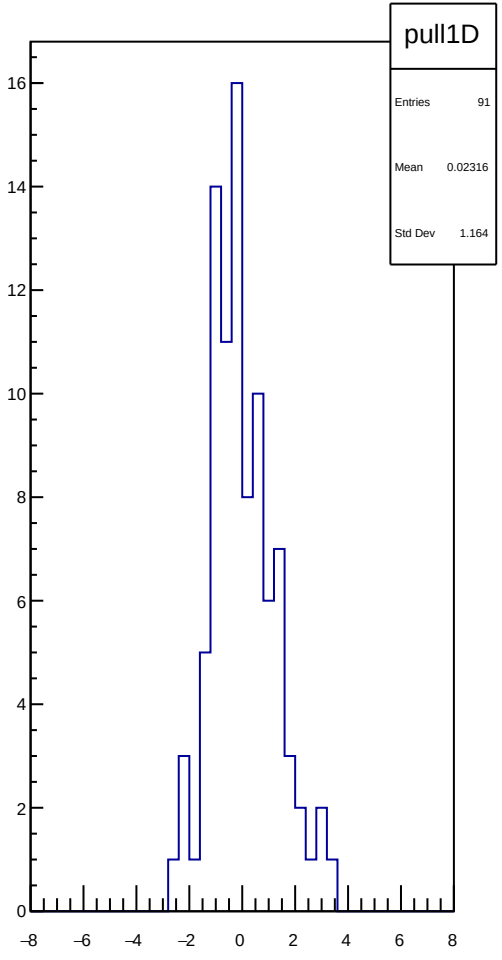

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 90.49 / 90
p0 2172 ± 1.642
2260
2240
2220
2200
2180
2160
2140
2120

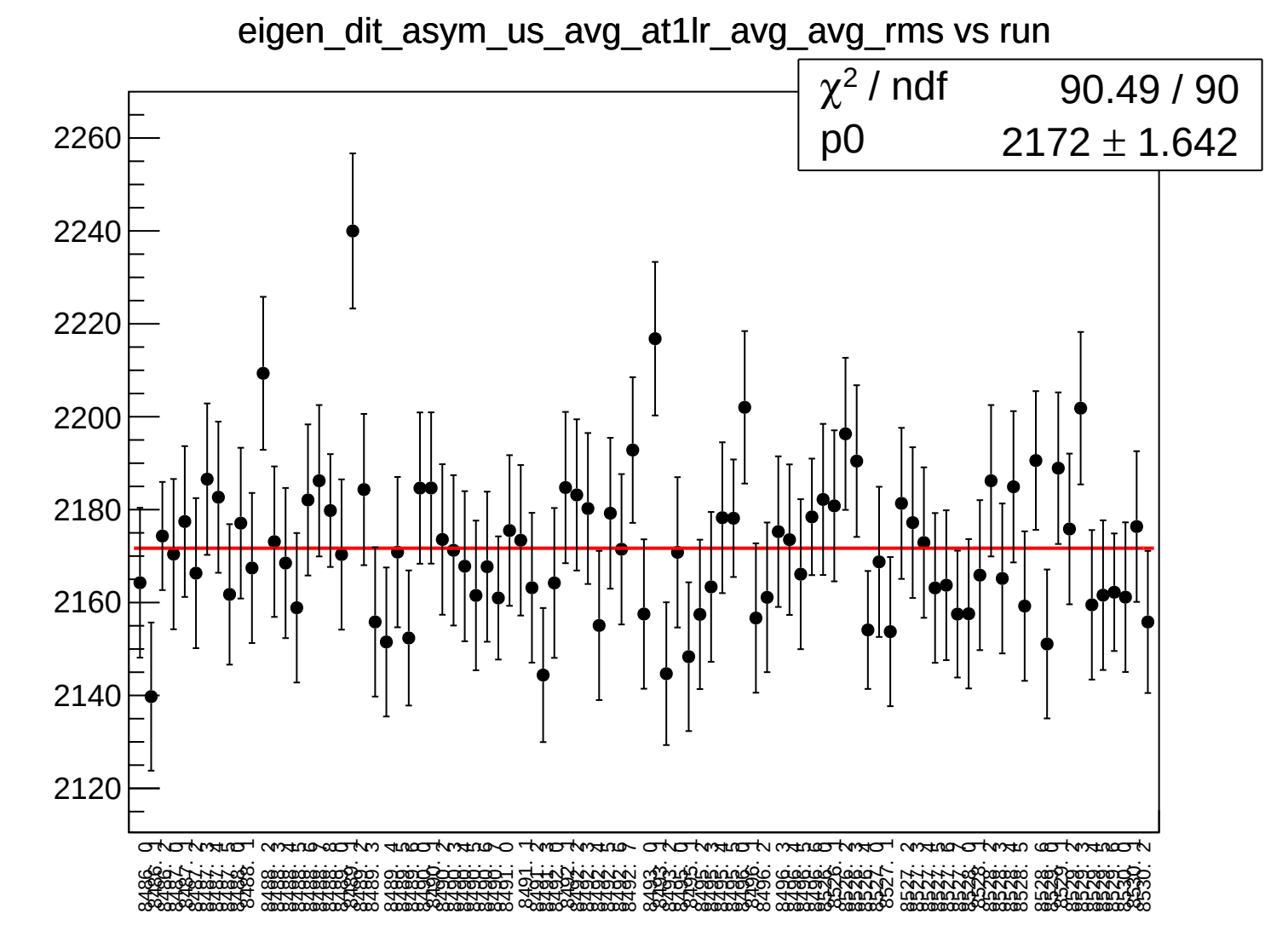

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 99.57 / 90
p0 −2033 ± 2719
pull
Entries 91
Mean 29.72
Std Dev 0

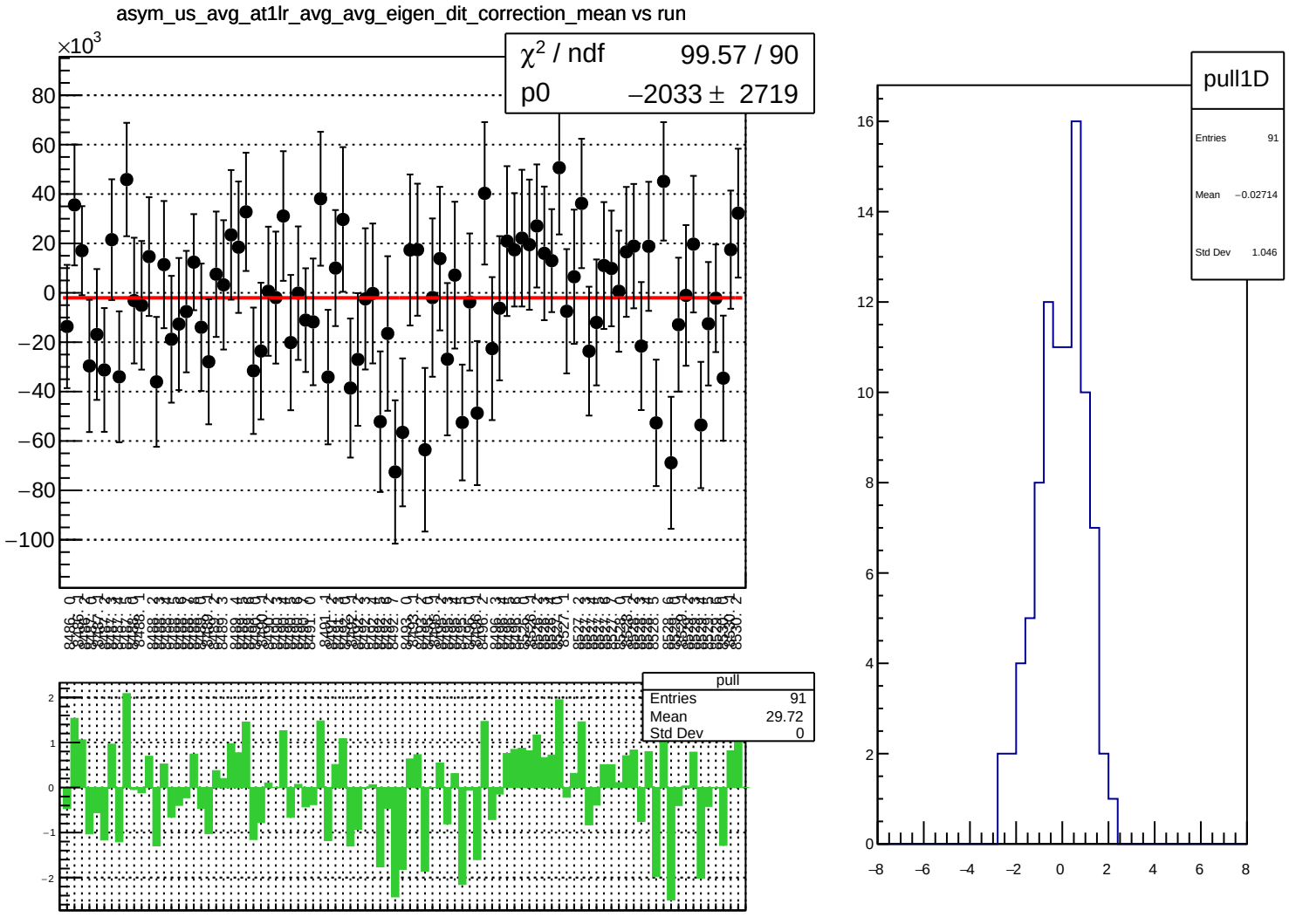

pull1D
Entries 91
Mean −0.02714
Std Dev 1.046

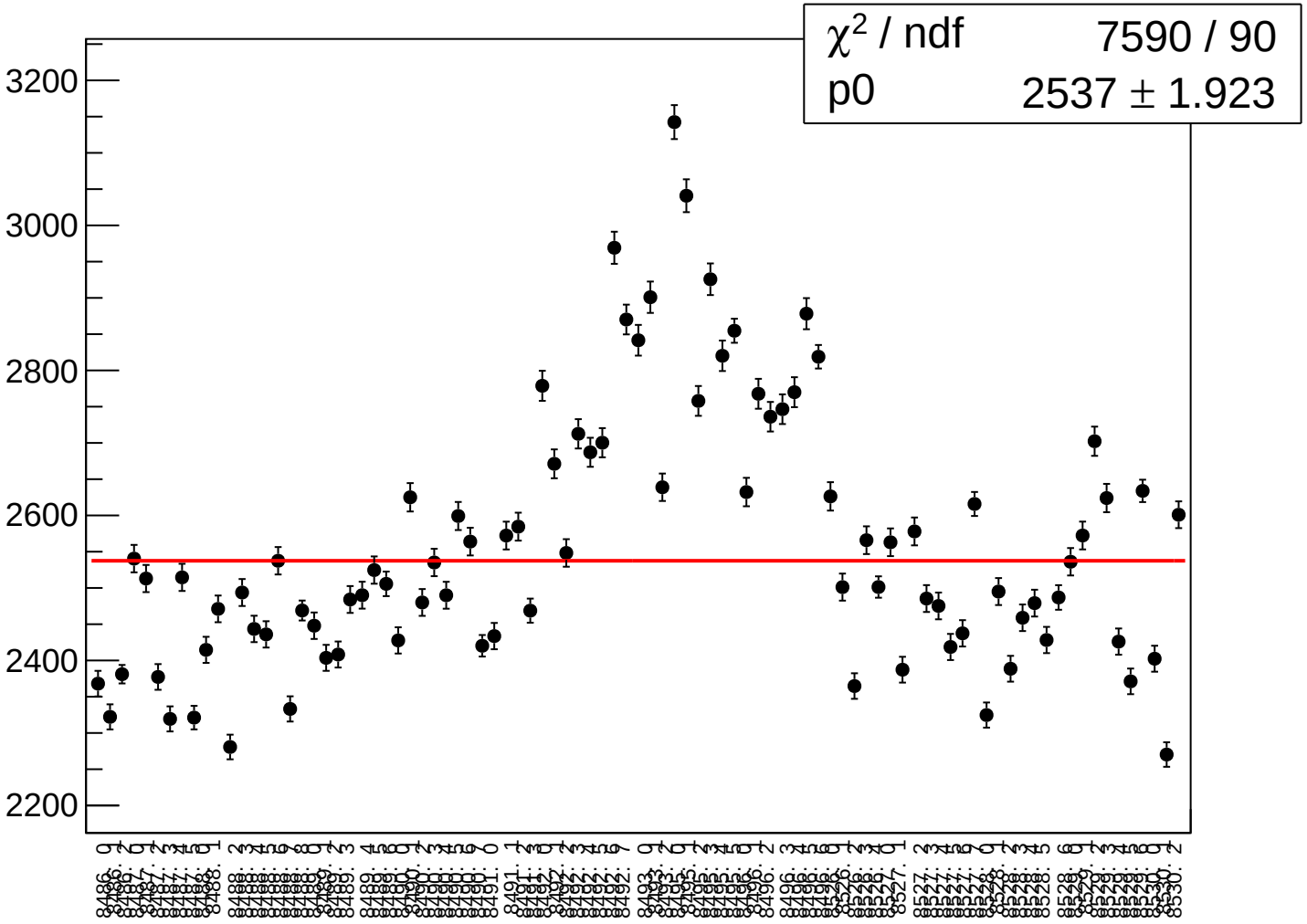

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 7590 / 90
p0 2537 ± 1.923
3200
3000
2800
2600
2400
2200

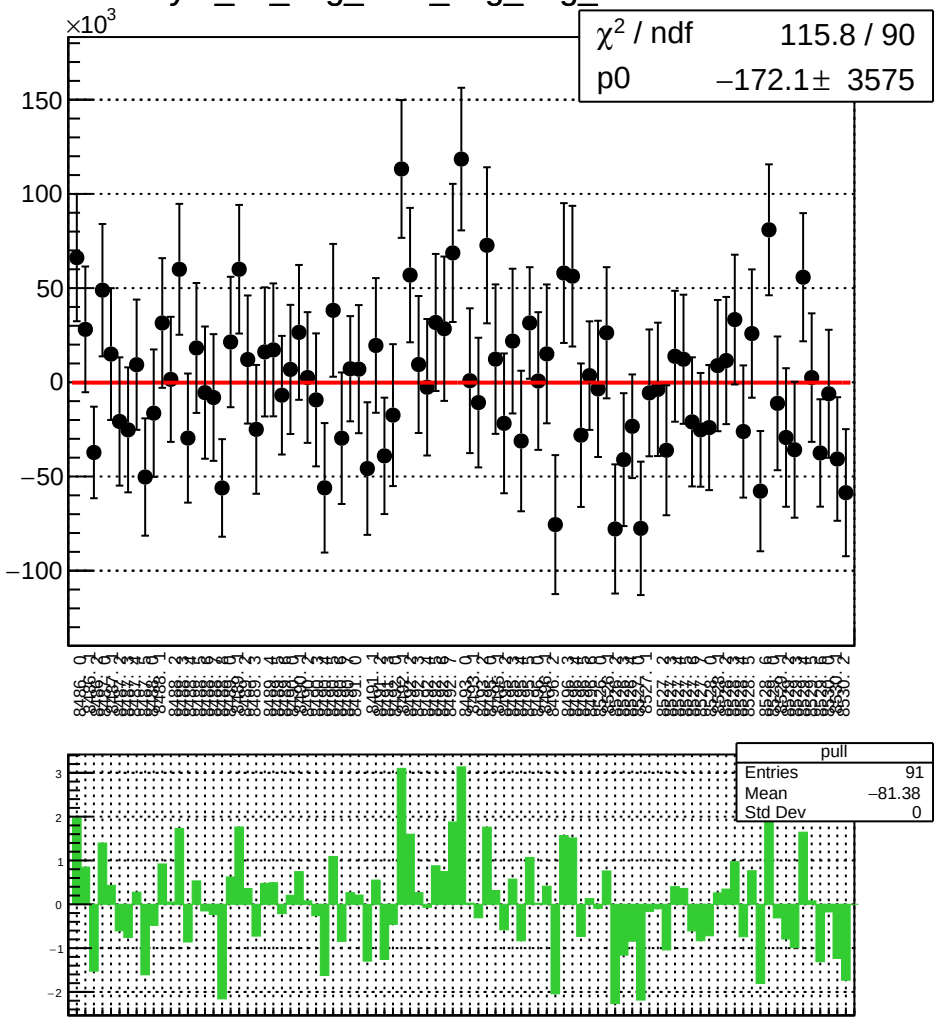

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 123.4 / 90
p0 −2218 ± 2322
100
80
60
40
20
0
−20
−40
−60
−80
pull
Entries 91
Mean −225.7
Std Dev 0
3
2
1
0
−1
−2

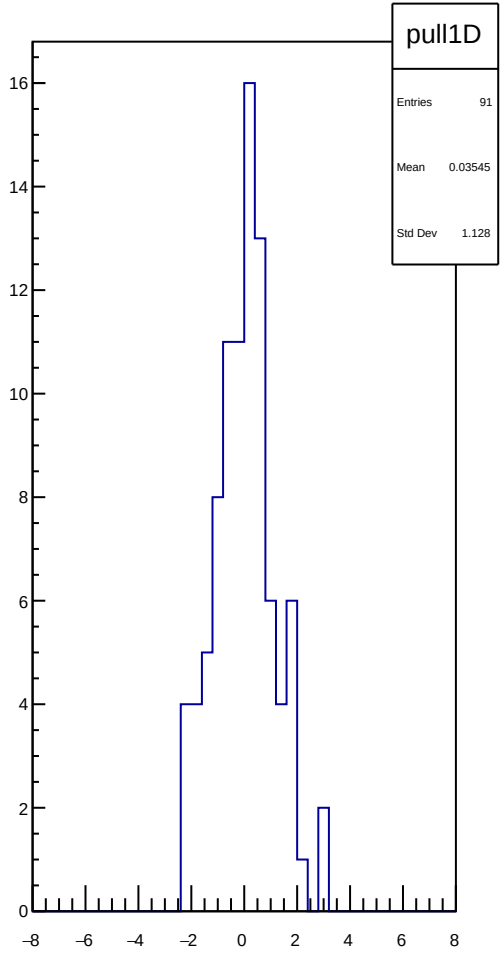

pull1D
Entries 91
Mean 0.02316
Std Dev 1.164
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

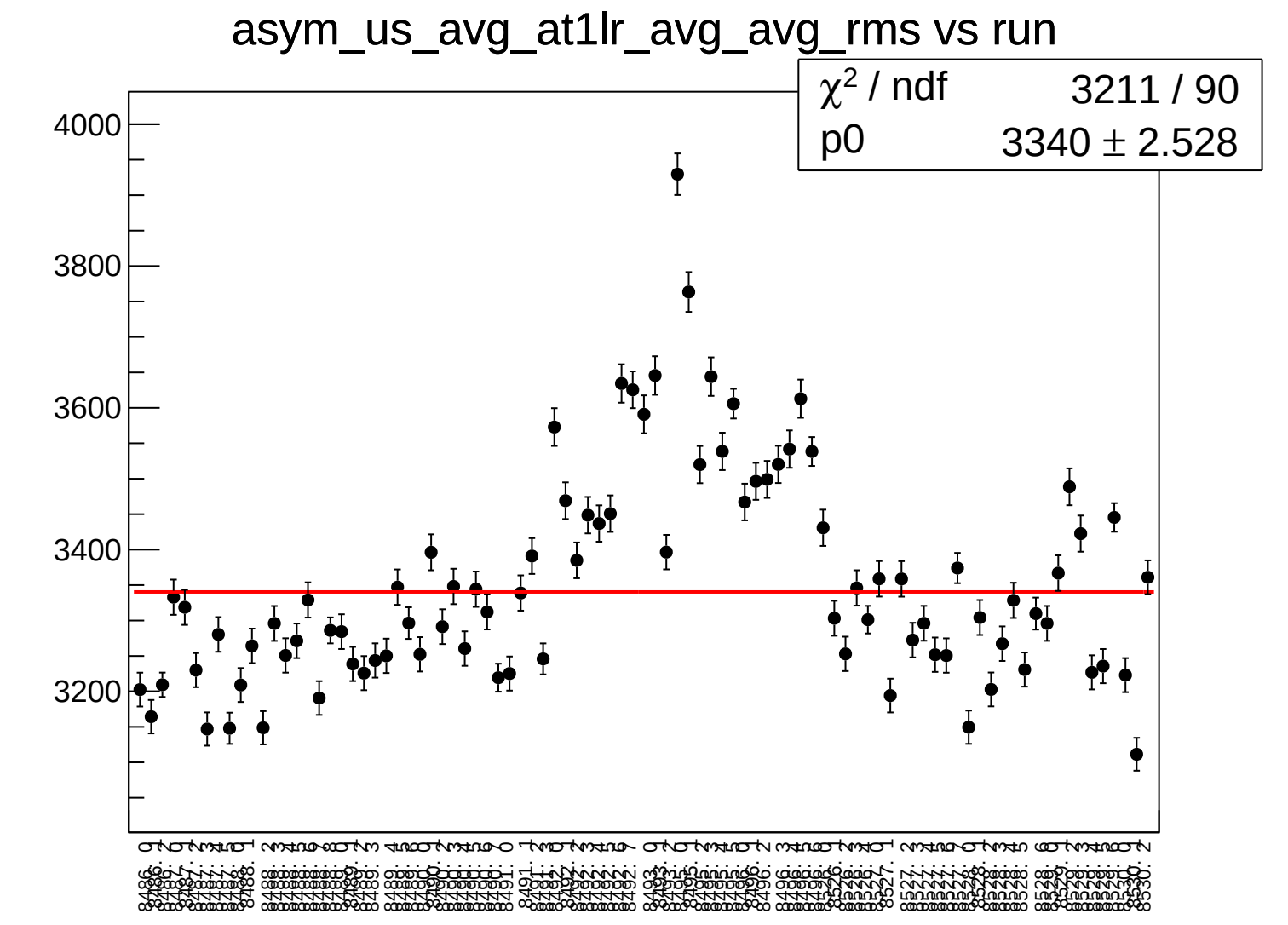

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 90.49 / 90
p0 2172 ± 1.642
2260
2240
2220
2200
2180
2160
2140
2120

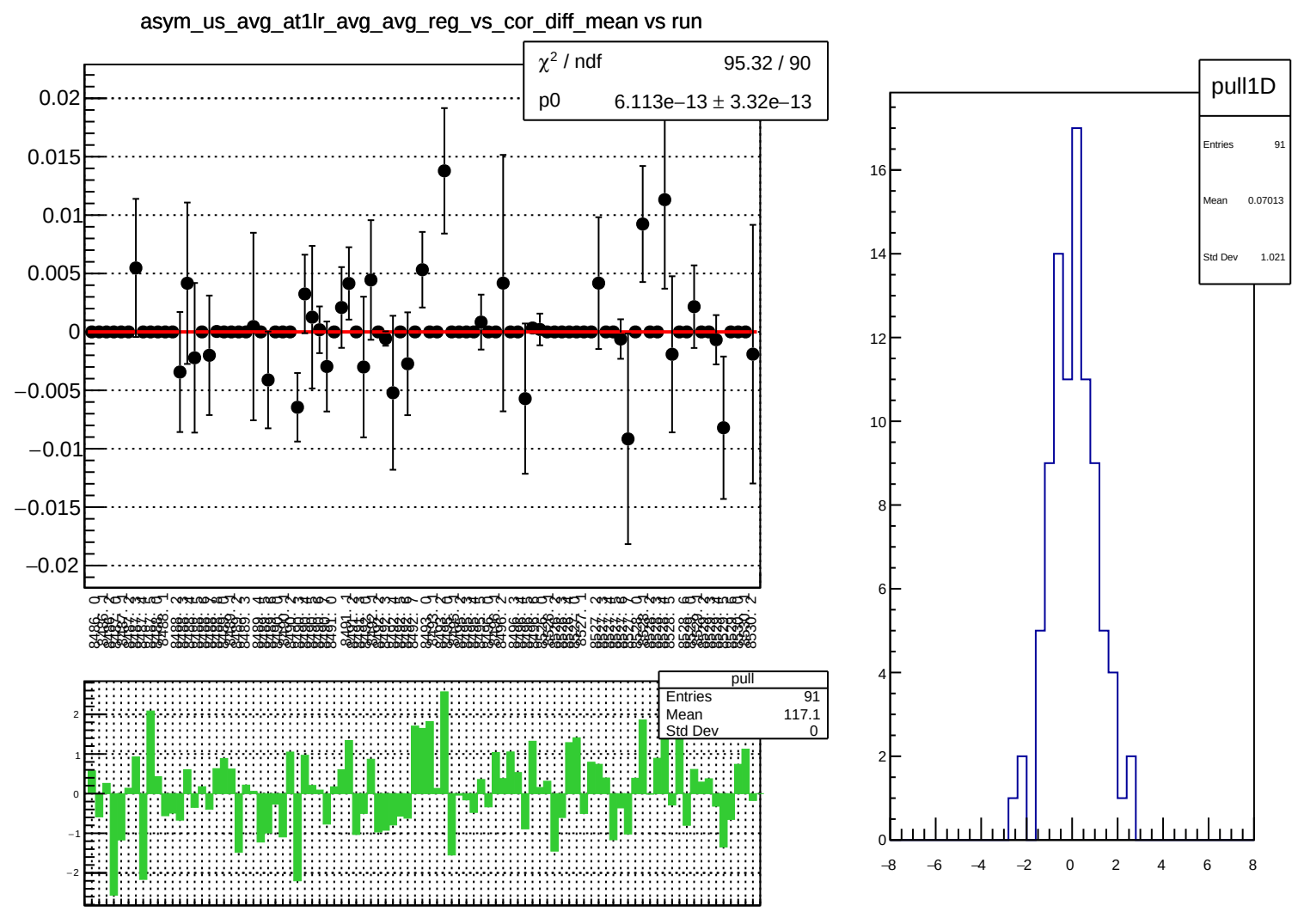

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 99.57 / 90
p0 −2033 ± 2719
pull
Entries 91
Mean 29.72
Std Dev 0
pull1D
Entries 91
Mean −0.02714
Std Dev 1.046

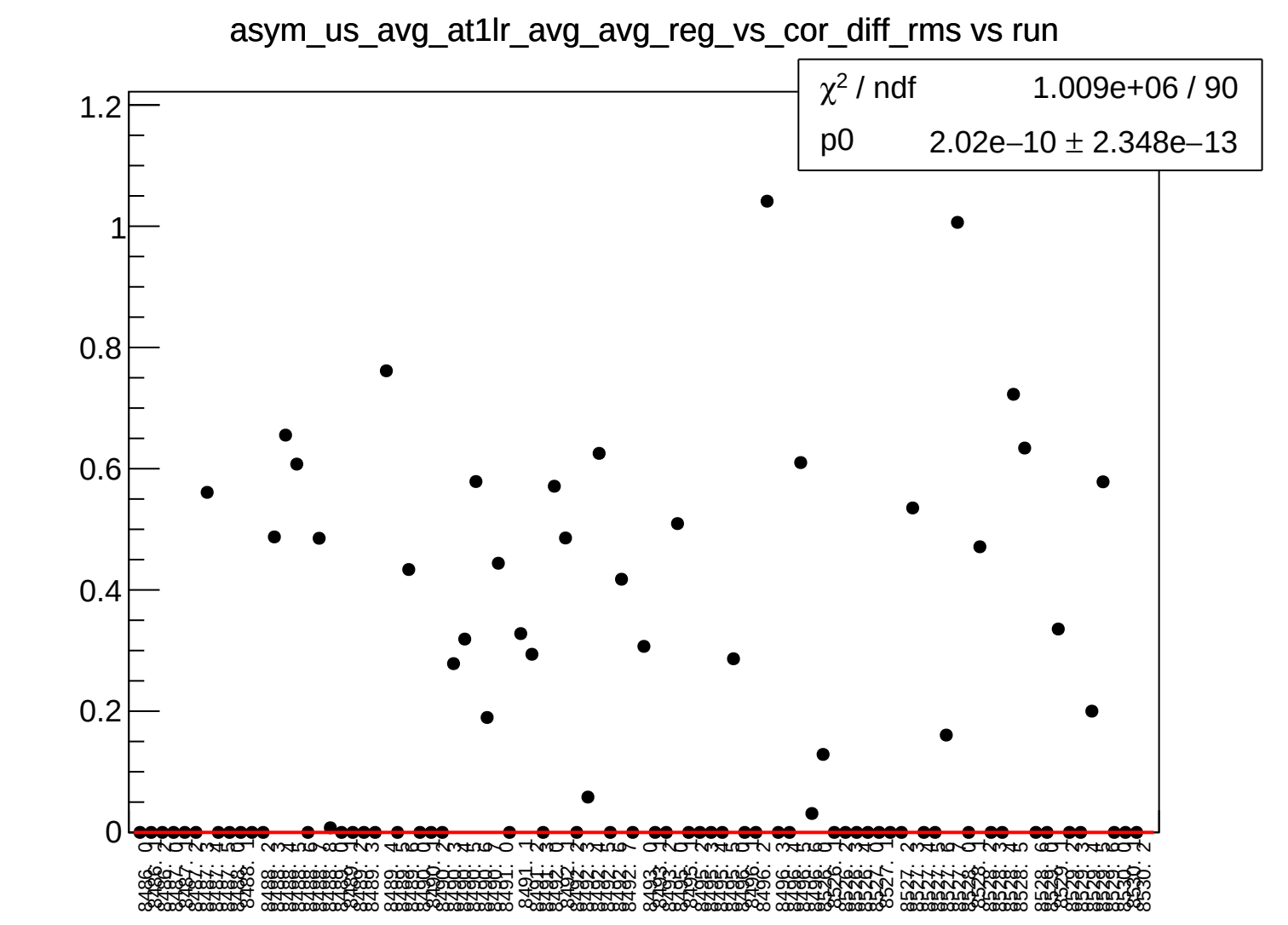

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 7590 / 90
p0 2537 ± 1.923
3200
3000
2800
2600
2400
2200

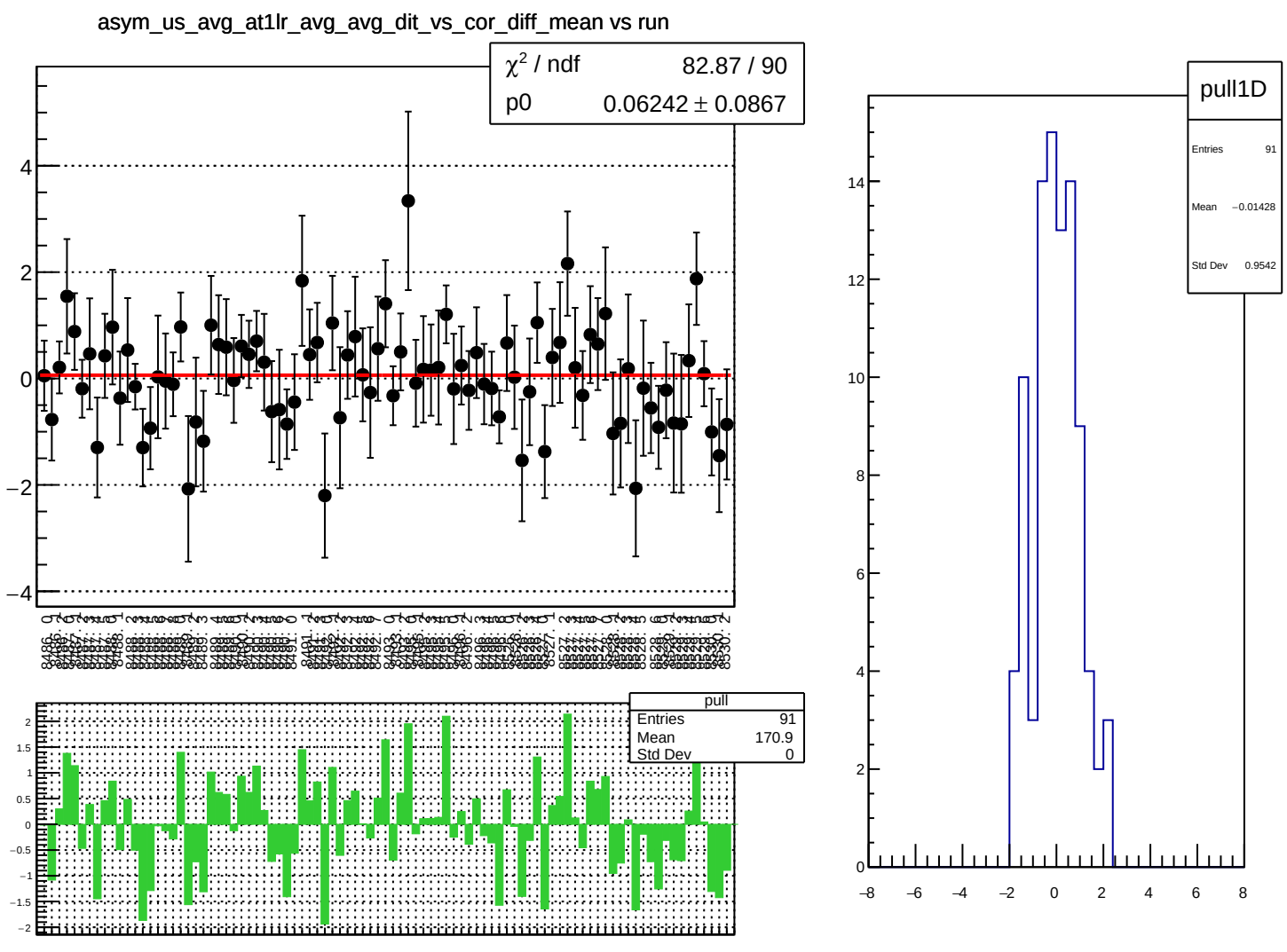

asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 115.8 / 90
p0 −172.1± 3575
150
100
50
0
−50
−100
pull
Entries 91
Mean −81.38
Std Dev 0
3
2
1
0
−1
−2

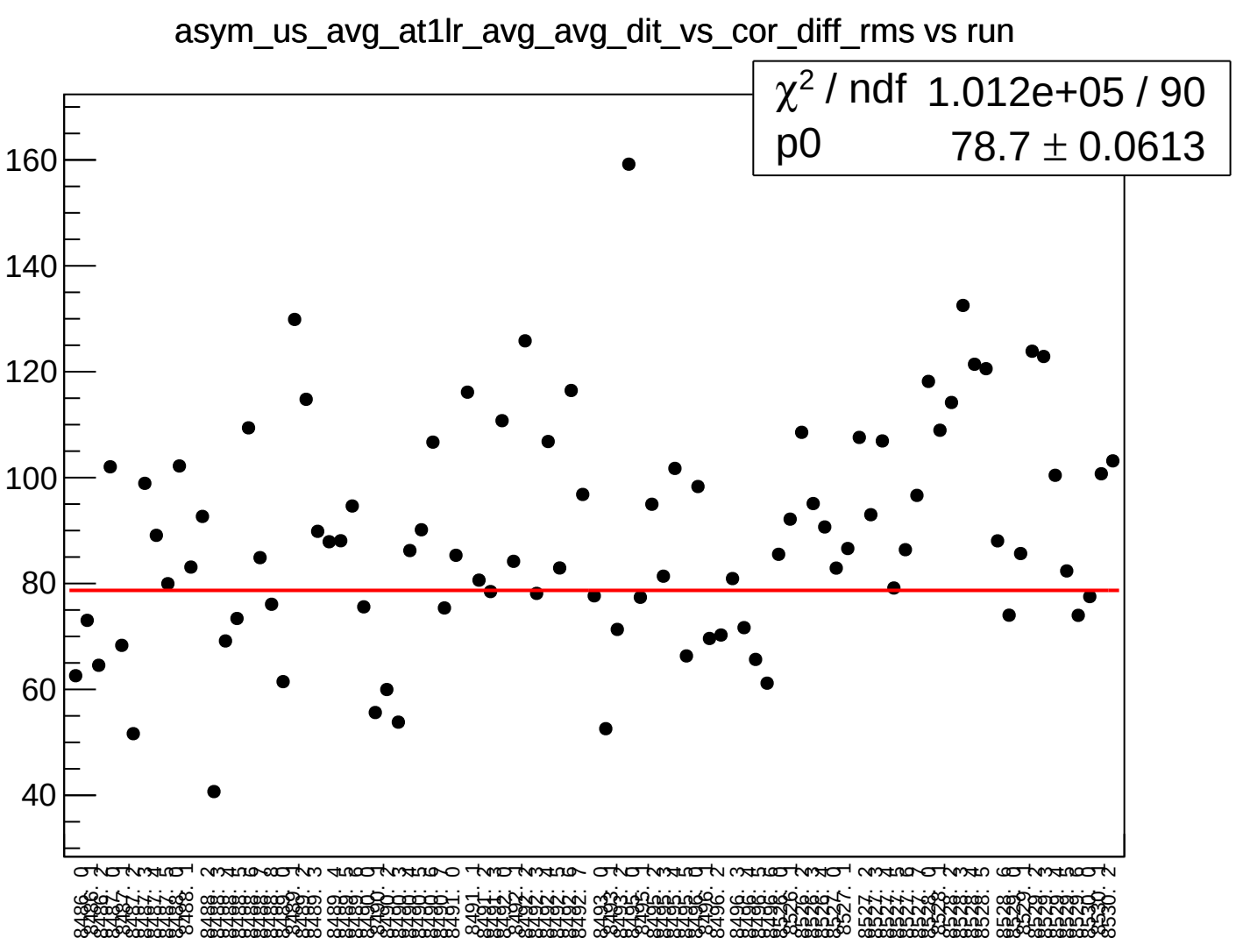

pull1D
Entries 91
Mean 0.03545
Std Dev 1.128
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

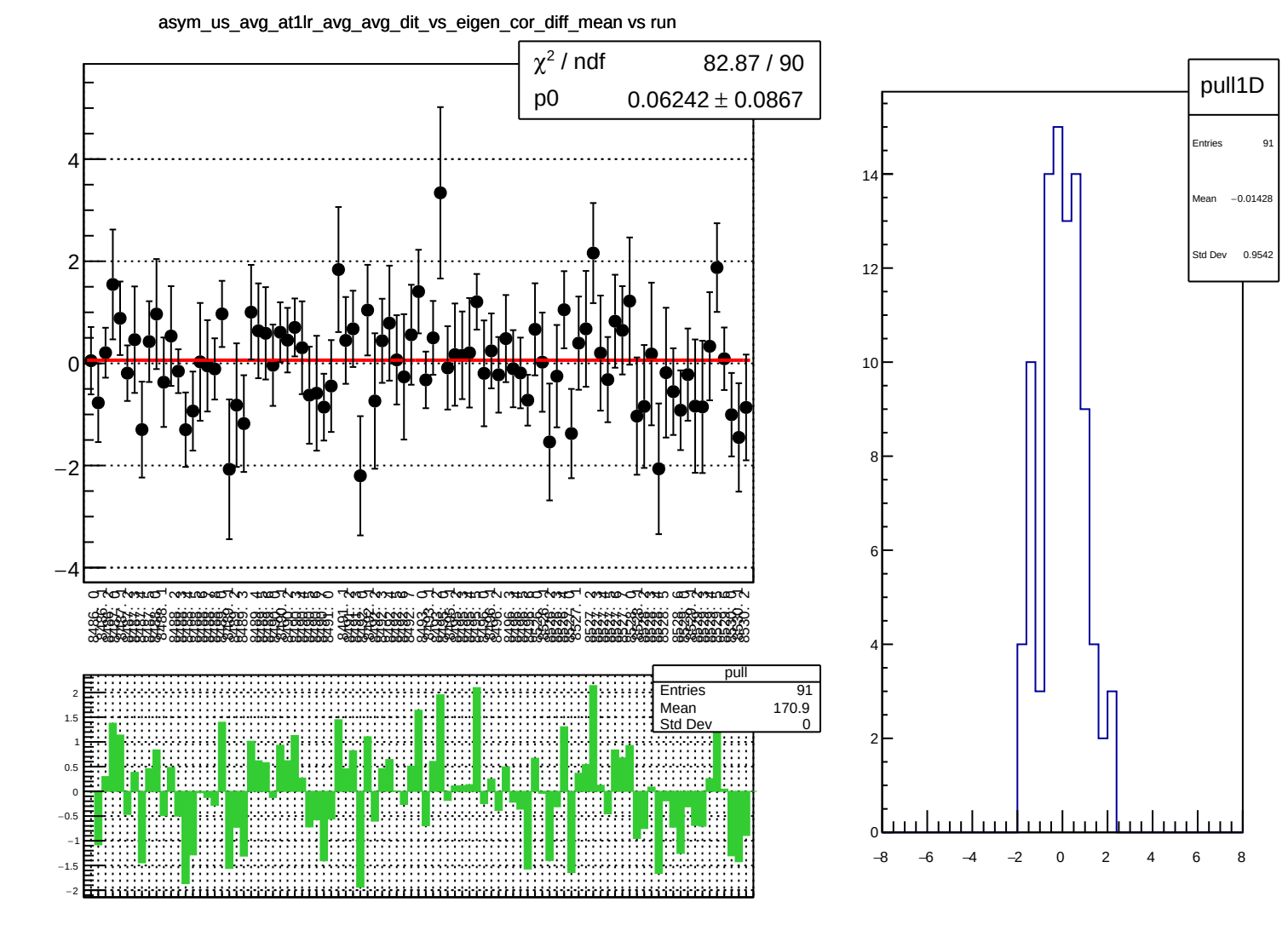

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 3211 / 90
p0 3340 ± 2.528
4000
3800
3600
3400
3200

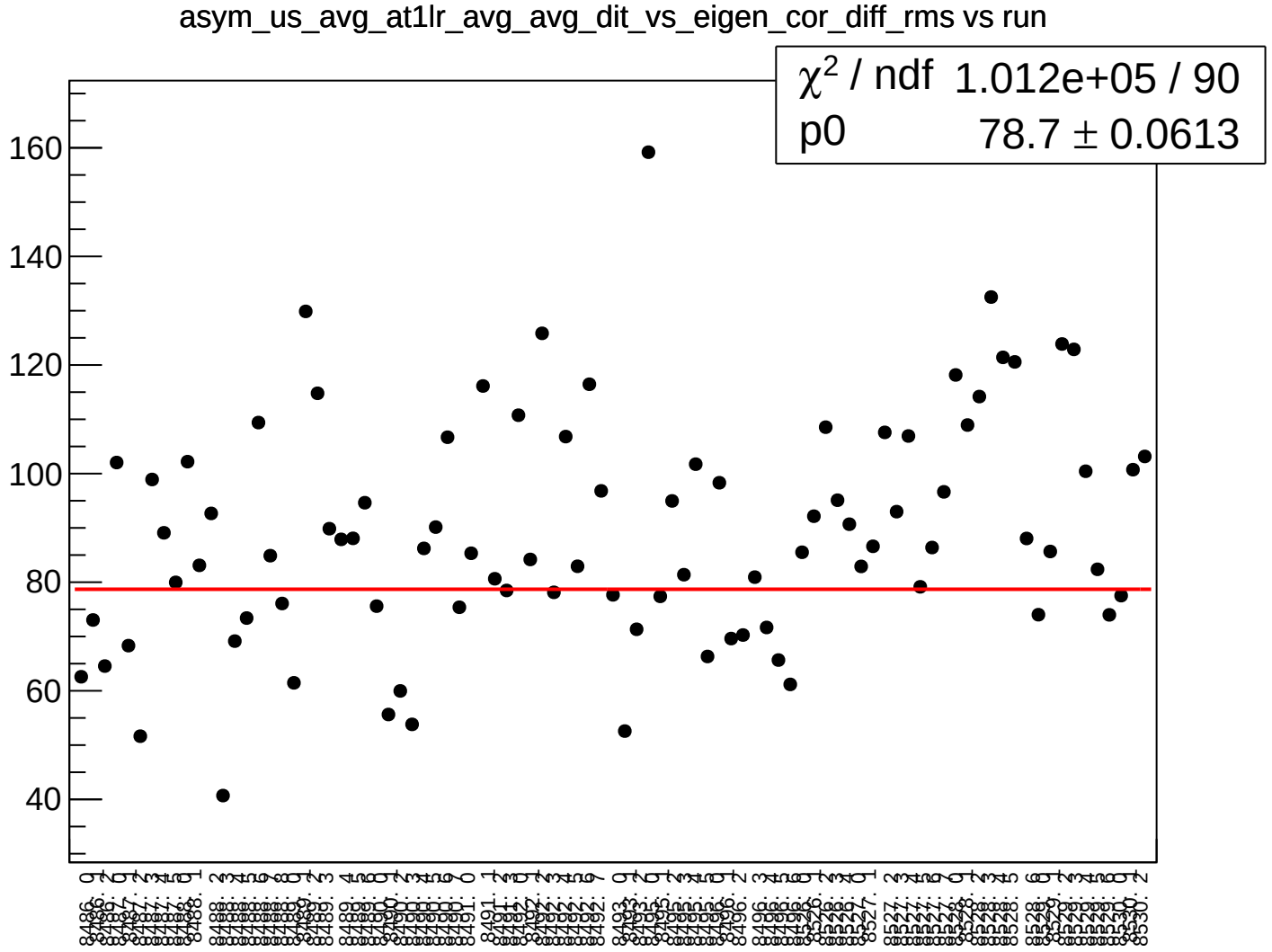

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 95.32 / 90
p0 6.113e−13 ± 3.32e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 91
Mean 117.1
Std Dev 0
pull1D
Entries 91
Mean 0.07013
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

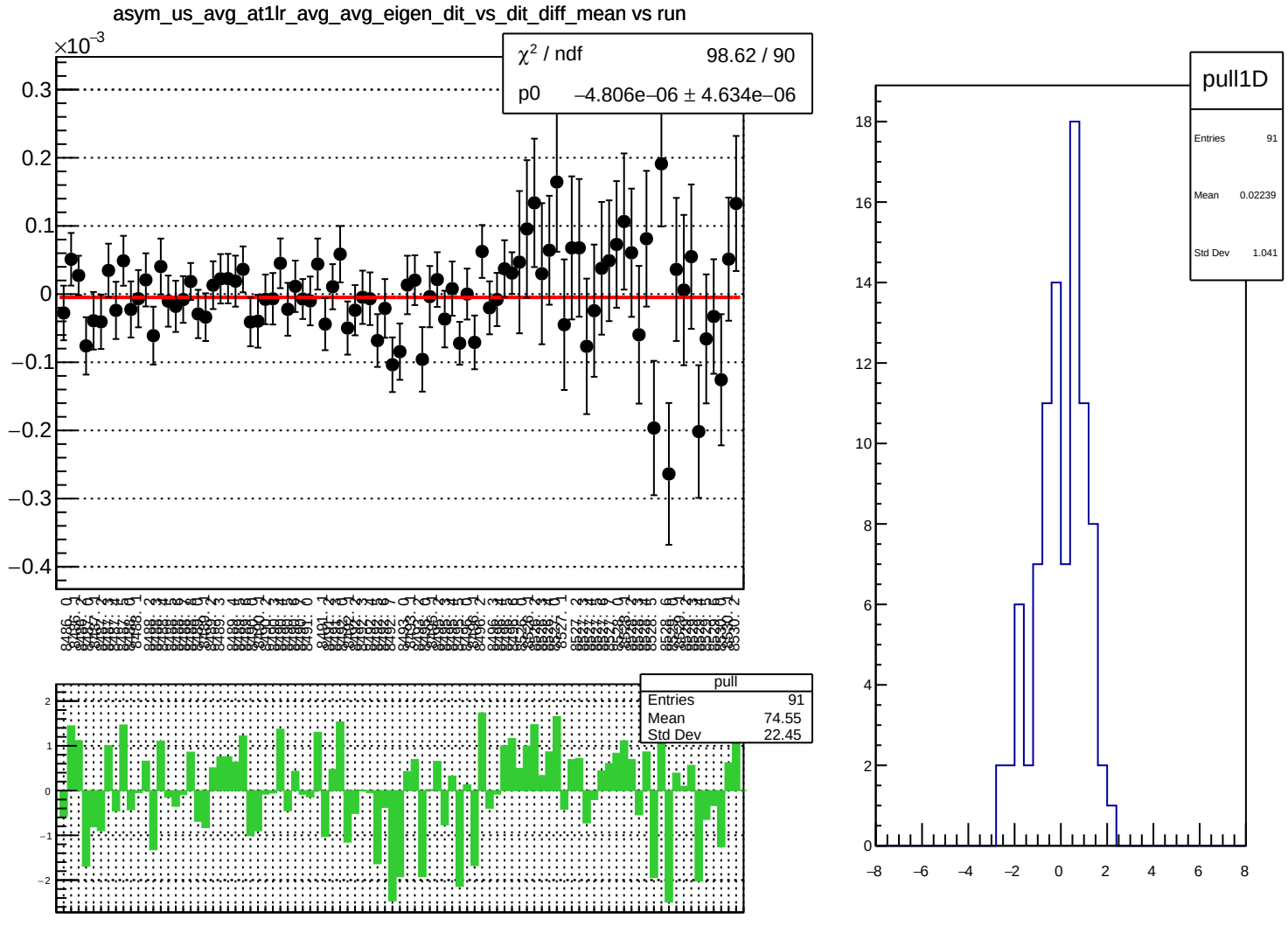

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.009e+06 / 90
p0 2.02e−10 ± 2.348e−13
1.2
1
0.8
0.6
0.4
0.2
0

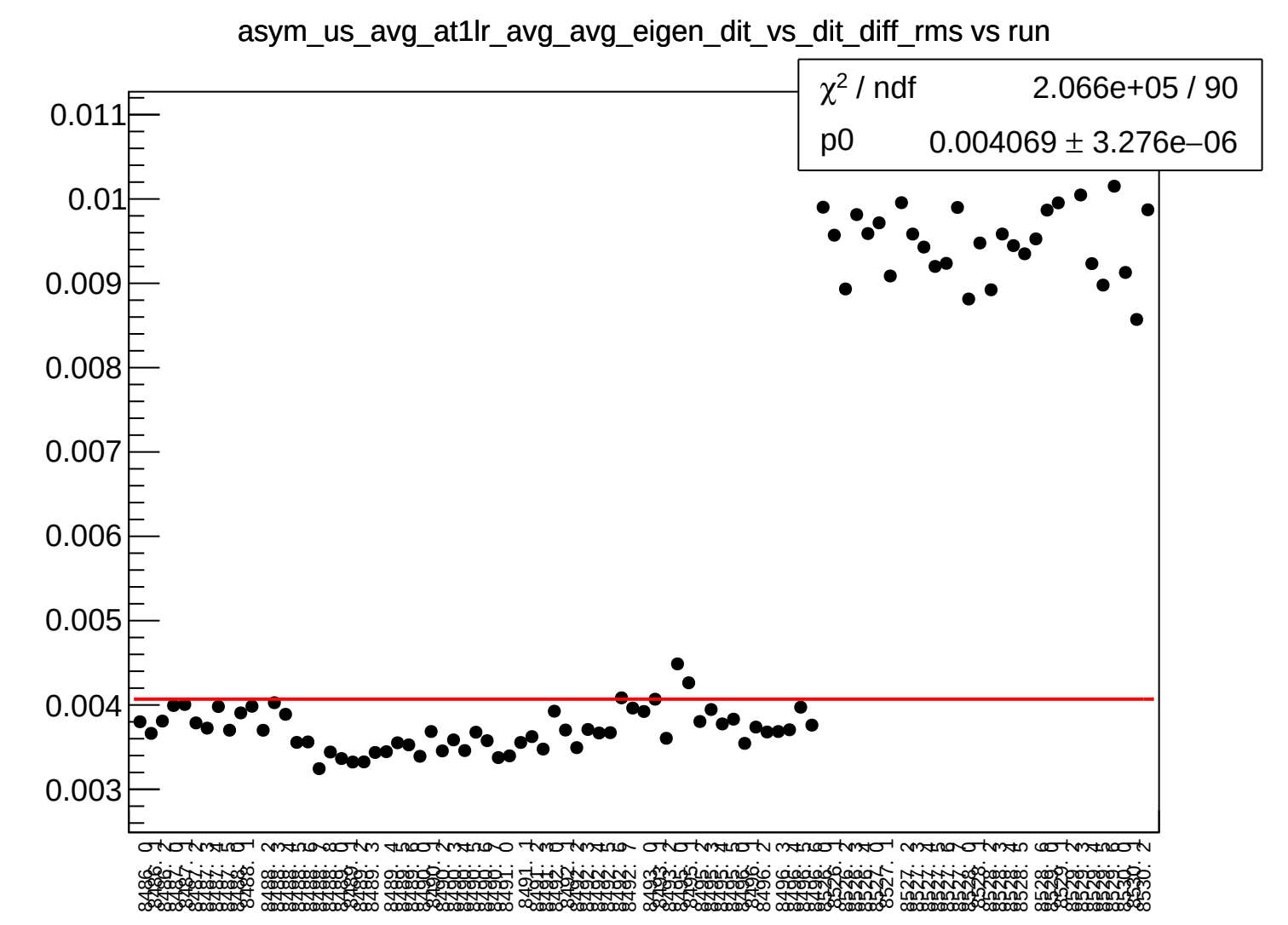

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 82.87 / 90
p0 0.06242 ± 0.0867
pull
Entries 91
Mean 170.9
Std Dev 0
pull1D
Entries 91
Mean −0.01428
Std Dev 0.9542

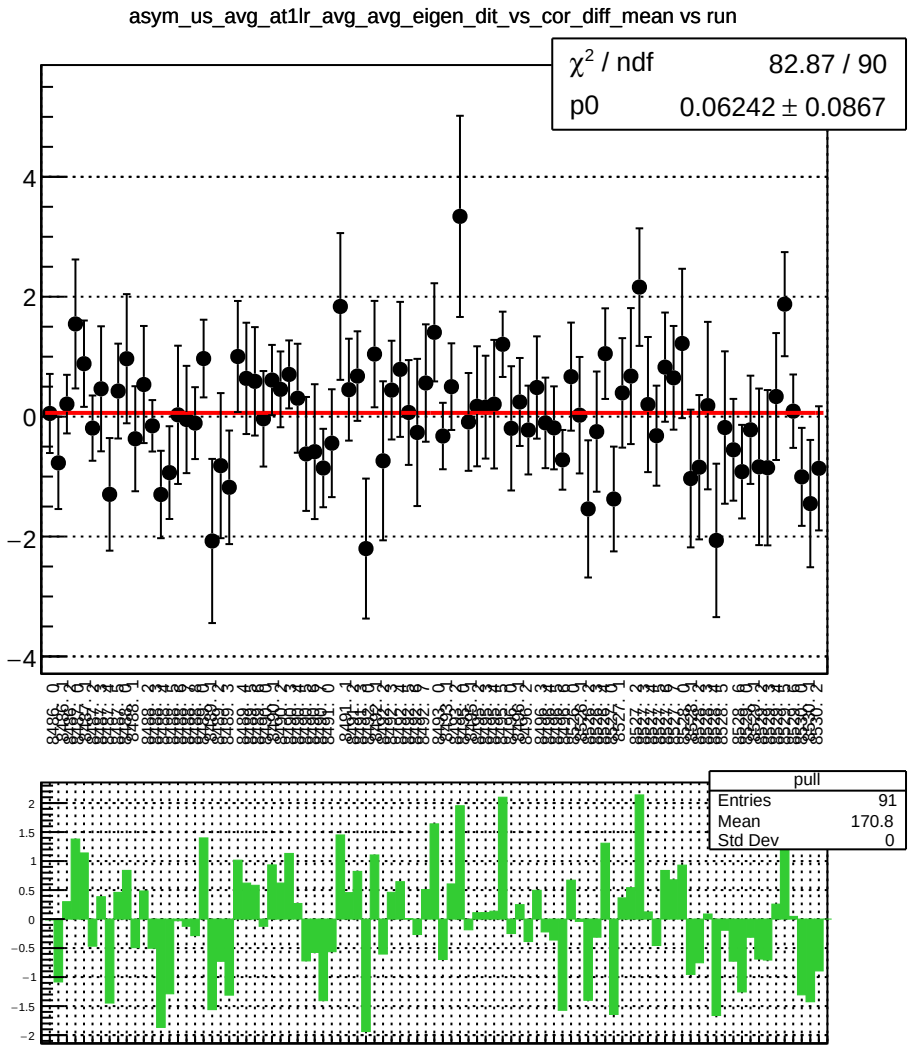

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.012e+05 / 90
p0 78.7 ± 0.0613
160
140
120
100
80
60
40

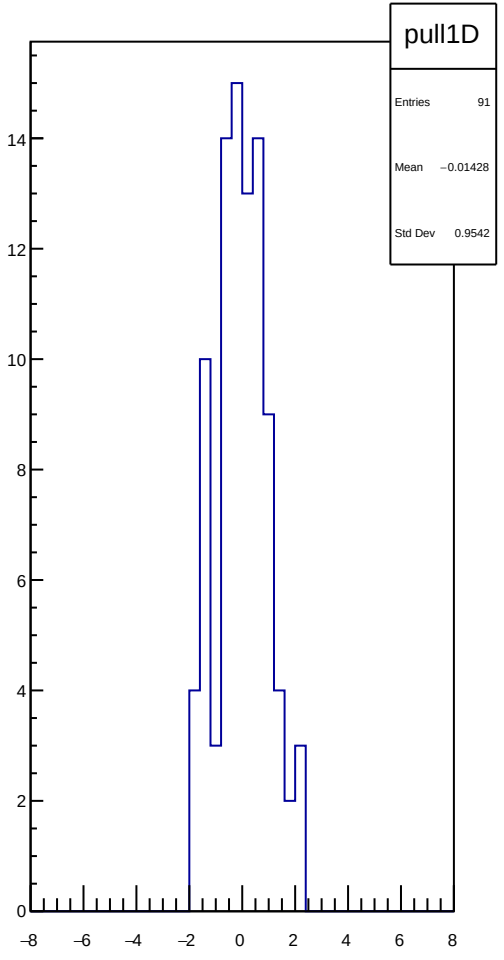

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.87 / 90
p0 0.06242 ± 0.0867
pull
Entries 91
Mean 170.9
Std Dev 0
pull1D
Entries 91
Mean −0.01428
Std Dev 0.9542

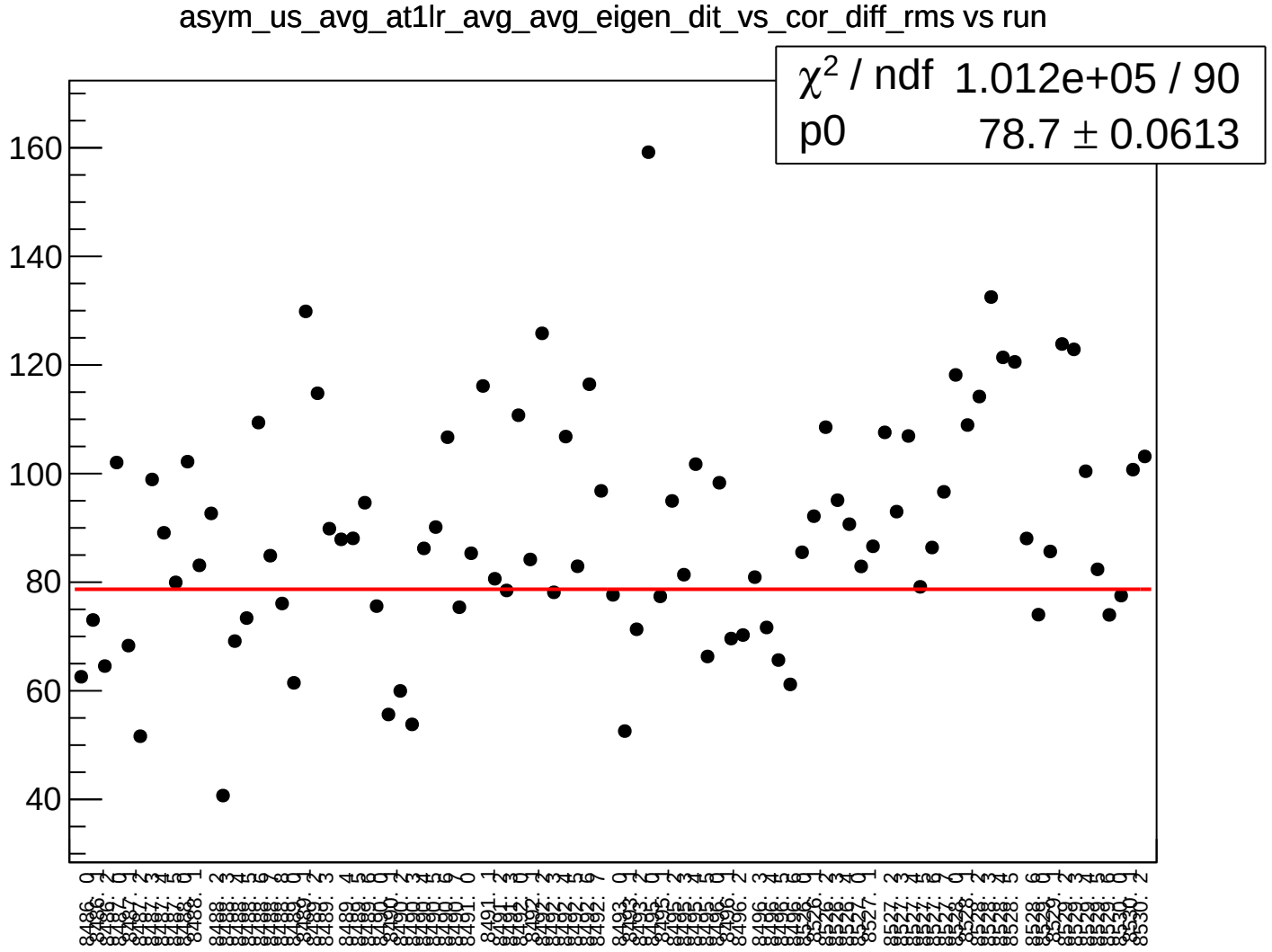

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.012e+05 / 90
p0 78.7 ± 0.0613
160
140
120
100
80
60
40

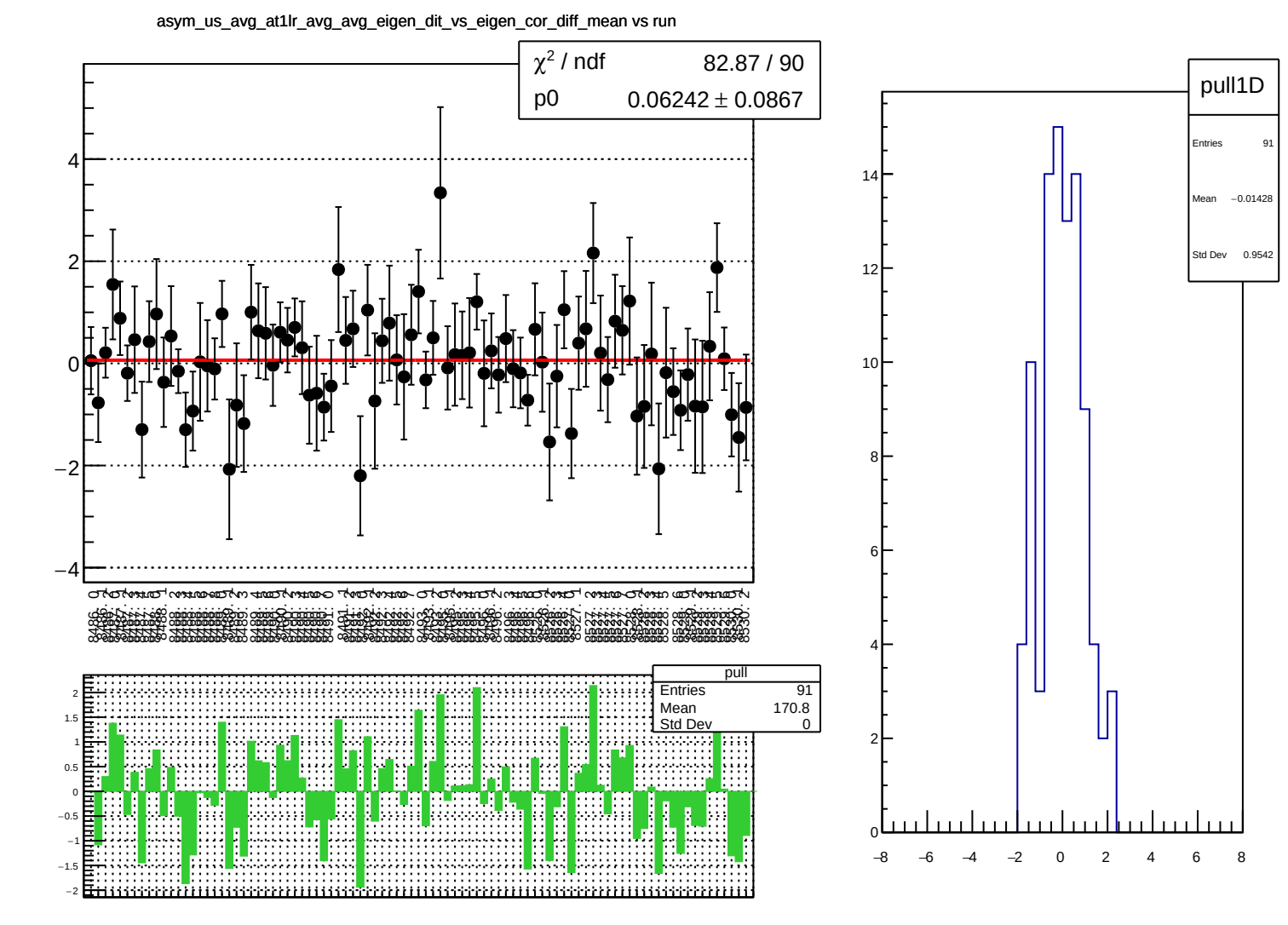

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.62 / 90
p0 −4.806e−06 ± 4.634e−06
pull
Entries 91
Mean 74.55
Std Dev 22.45
pull1D
Entries 91
Mean 0.02239
Std Dev 1.041

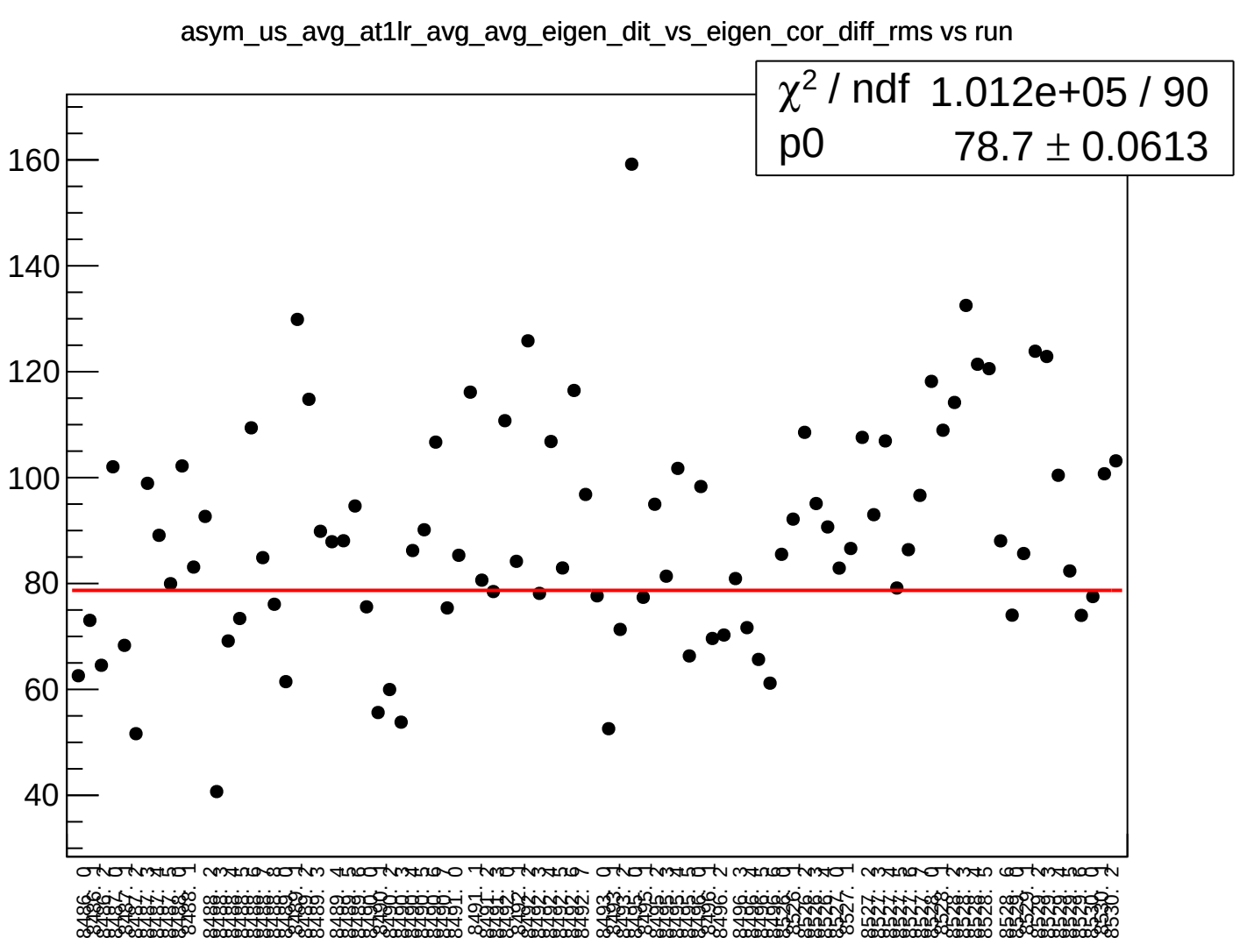

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.066e+05 / 90
p0 0.004069 ± 3.276e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

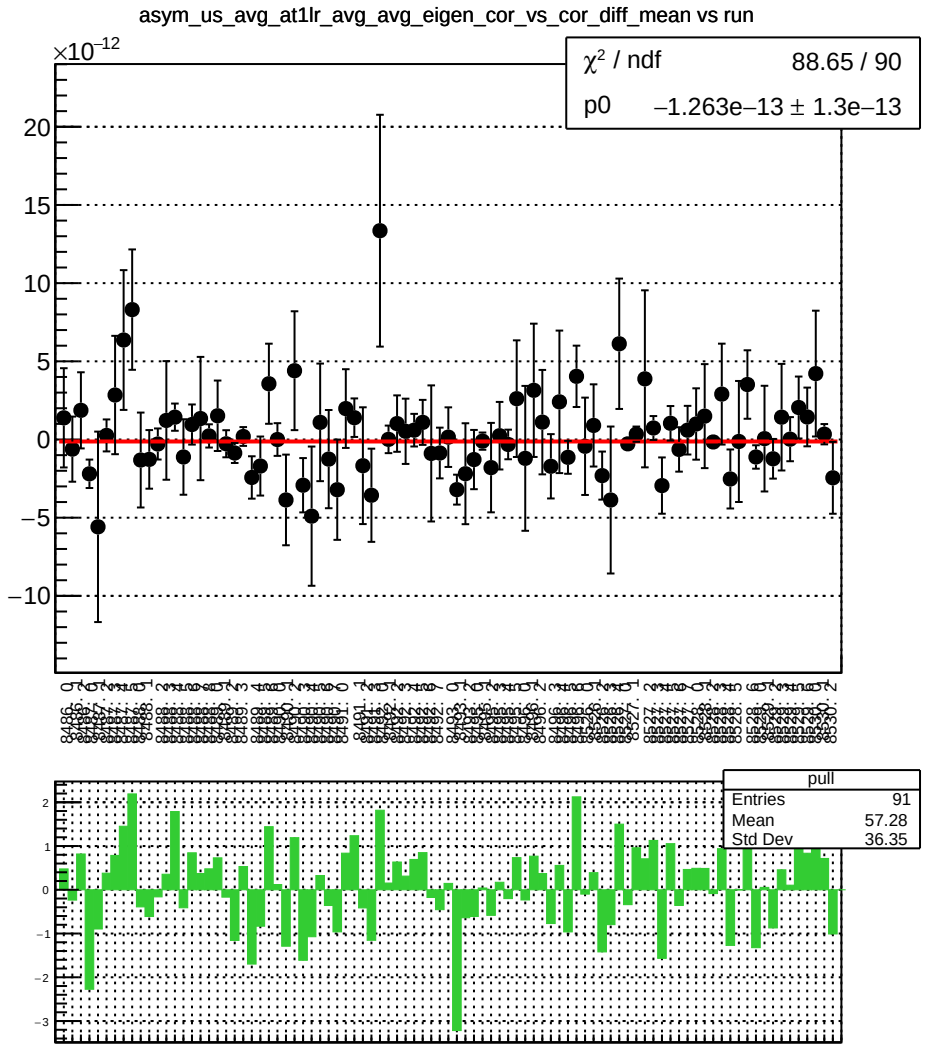

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.87 / 90
p0 0.06242 ± 0.0867
pull
Entries 91
Mean 170.8
Std Dev 0

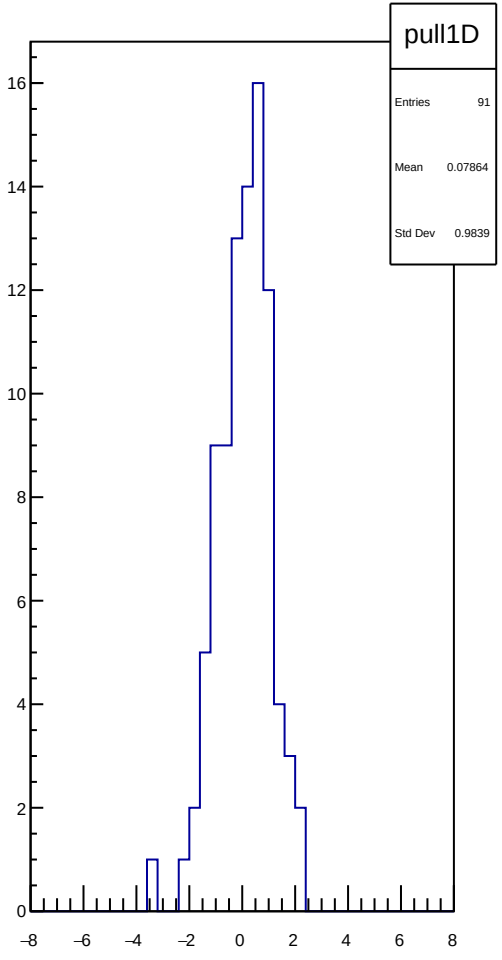

pull1D
Entries 91
Mean −0.01428
Std Dev 0.9542

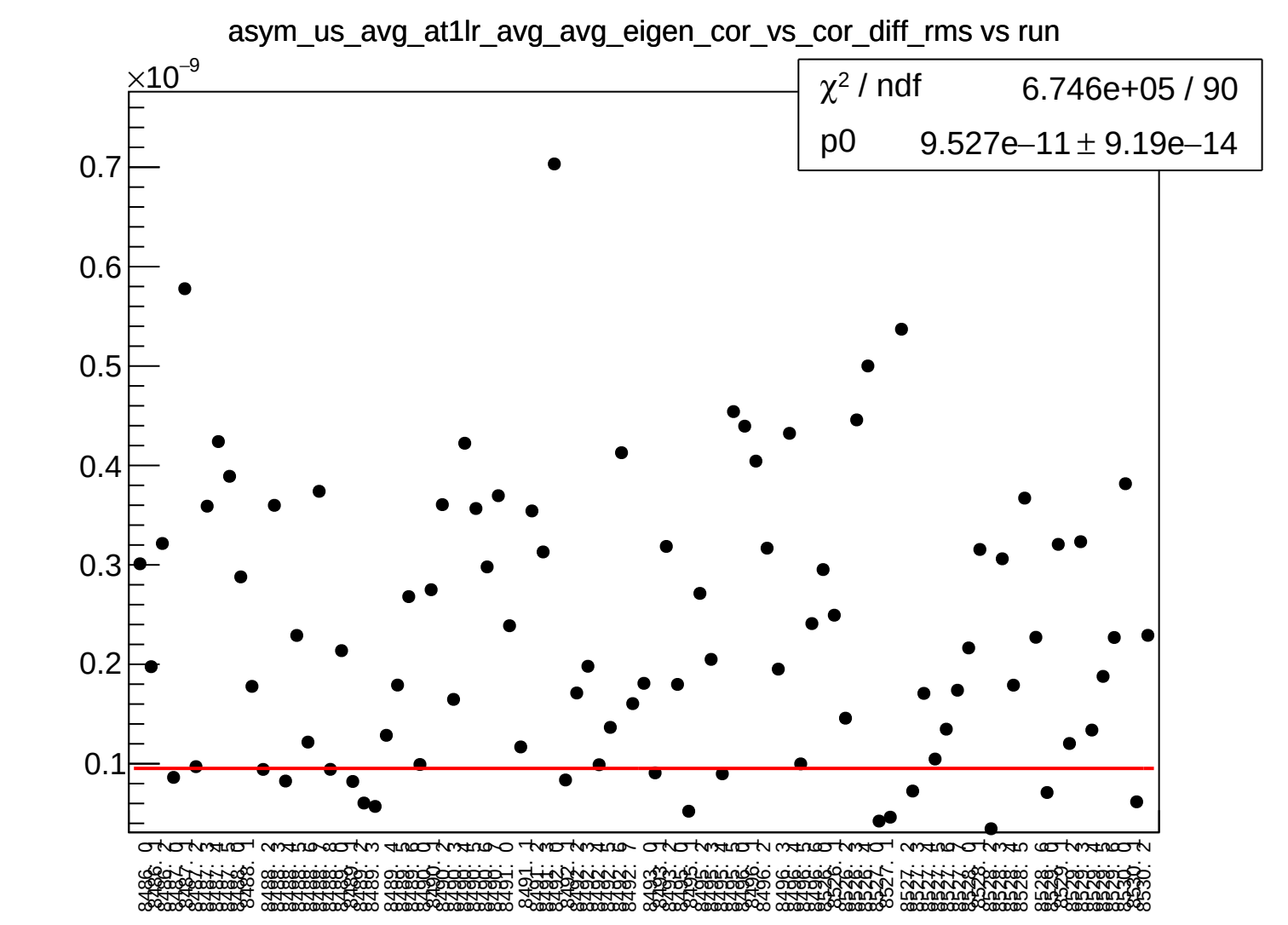

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.012e+05 / 90
p0 78.7 ± 0.0613
160
140
120
100
80
60
40

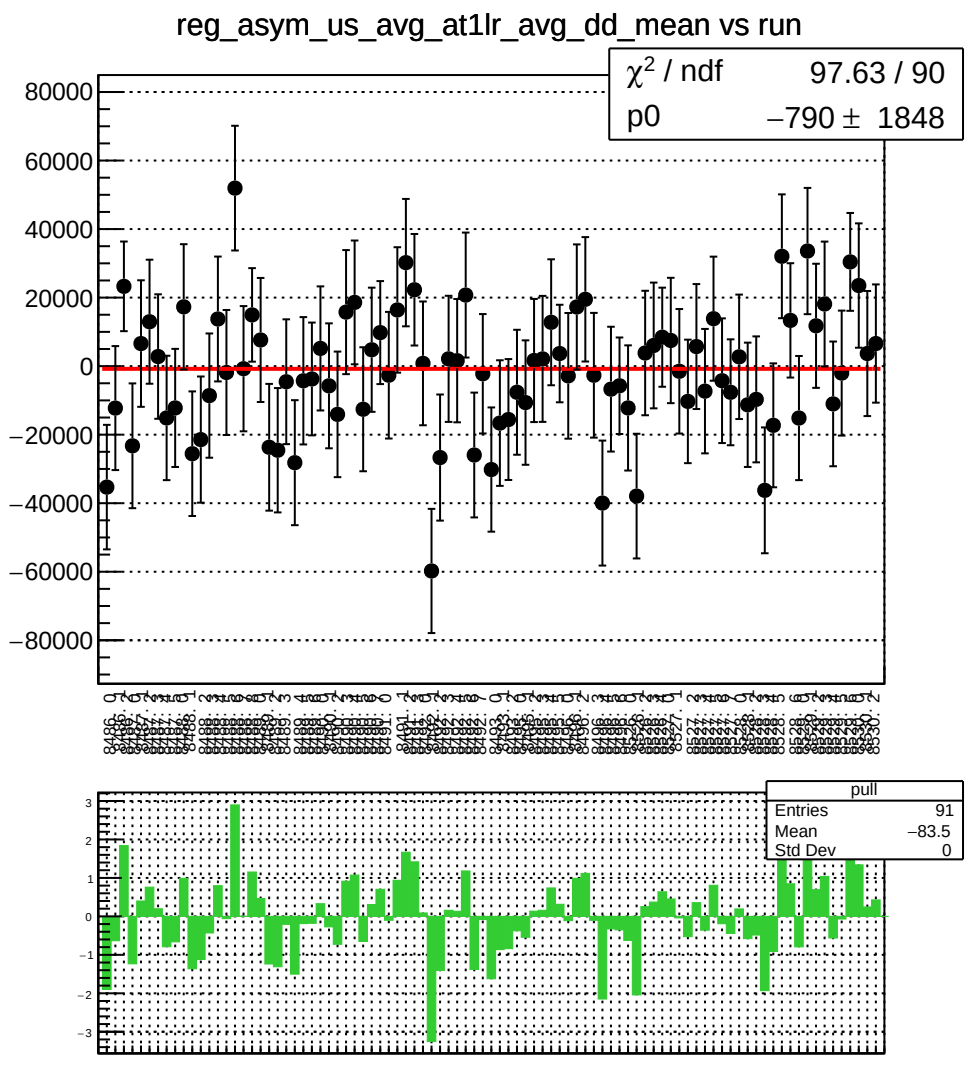

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.87 / 90
p0 0.06242 ± 0.0867
pull
Entries 91
Mean 170.8
Std Dev 0
pull1D
Entries 91
Mean −0.01428
Std Dev 0.9542

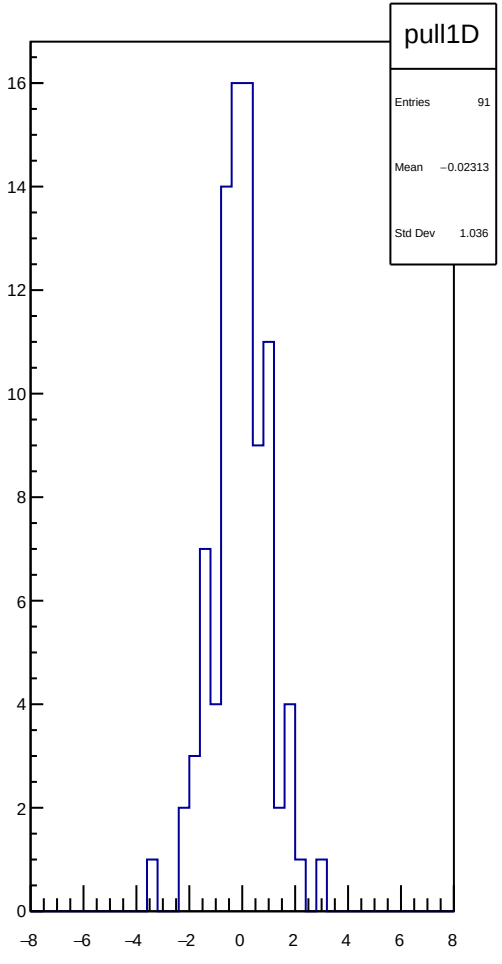

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.012e+05 / 90
p0 78.7 ± 0.0613
160
140
120
100
80
60
40

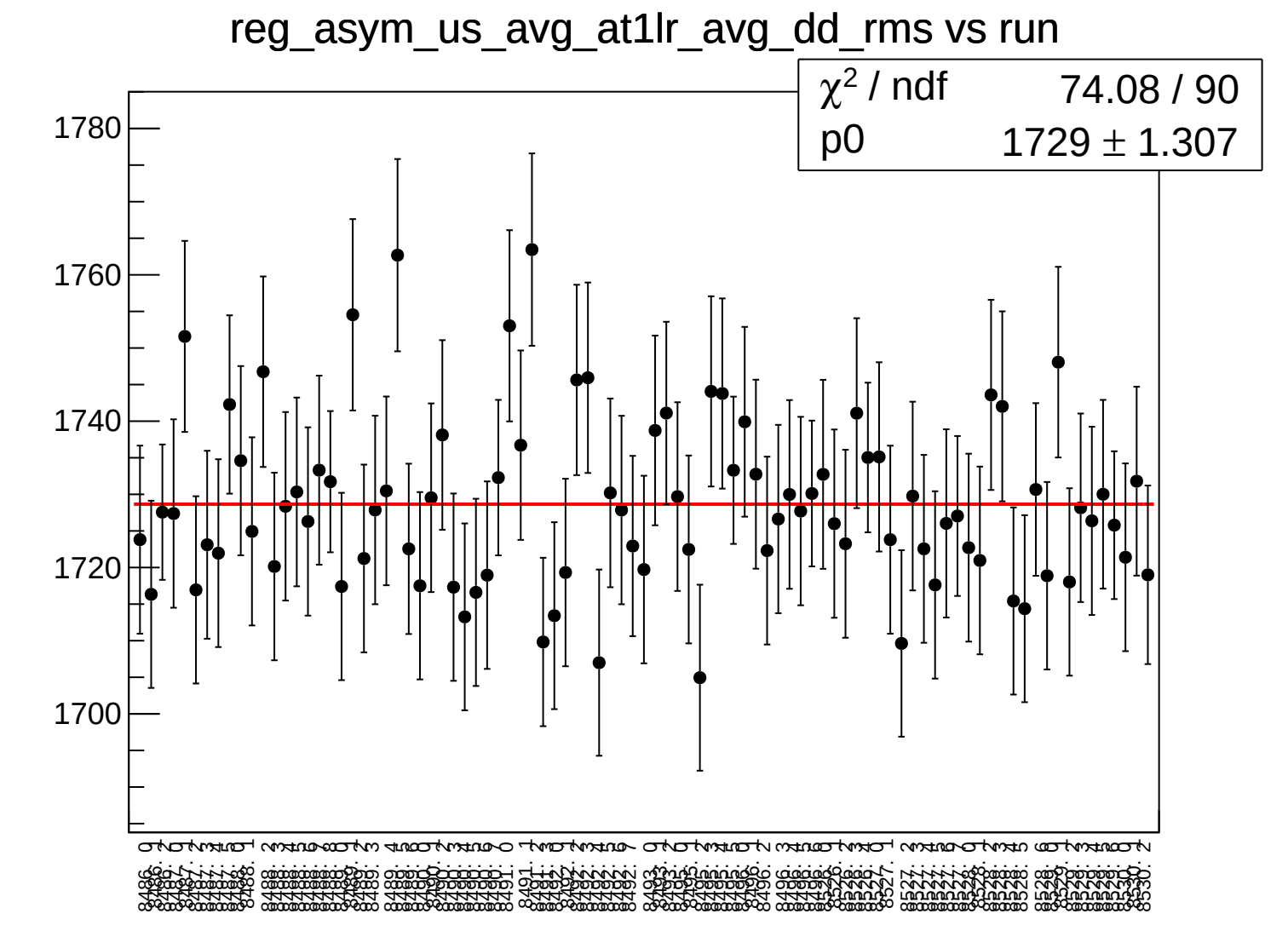

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.65 / 90
p0 −1.263e−13 ± 1.3e−13
pull
Entries 91
Mean 57.28
Std Dev 36.35

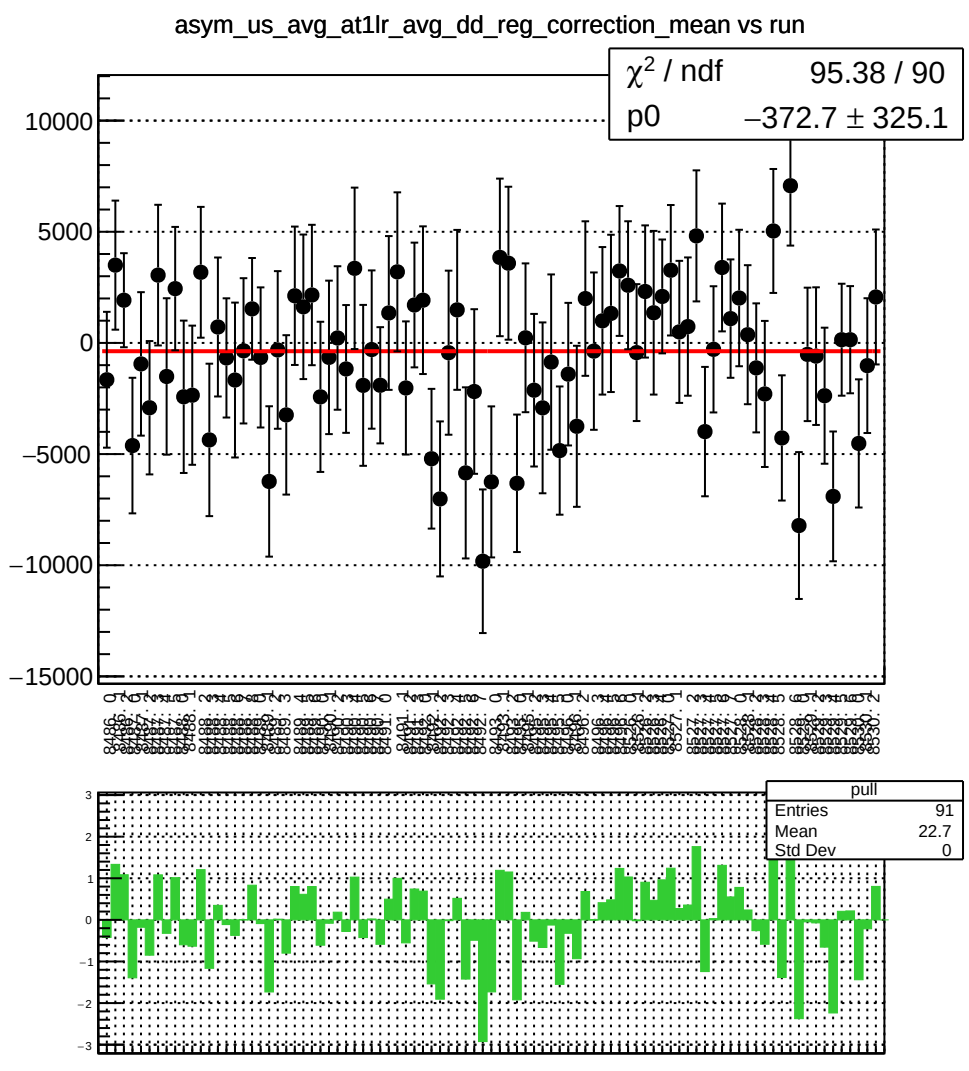

pull1D
Entries 91
Mean 0.07864
Std Dev 0.9839

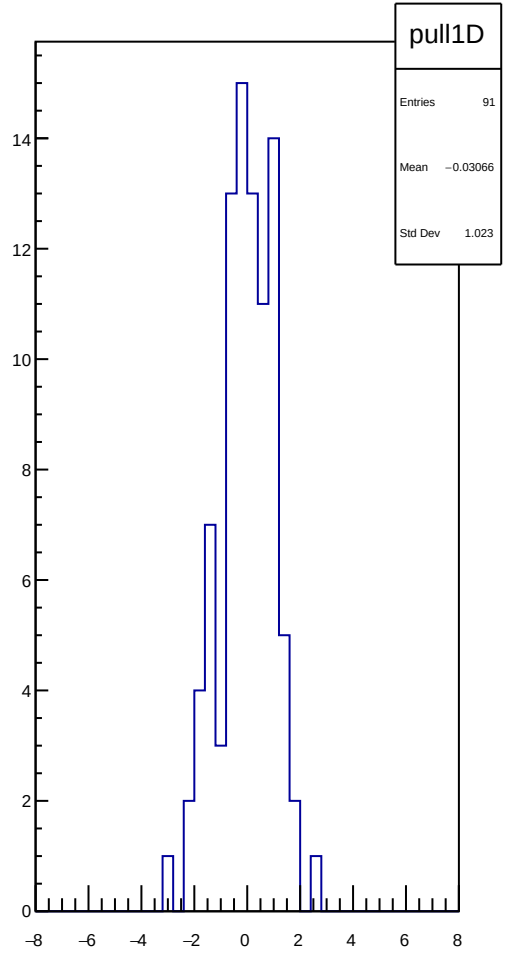

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.746e+05 / 90
p0 9.527e−11 ± 9.19e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

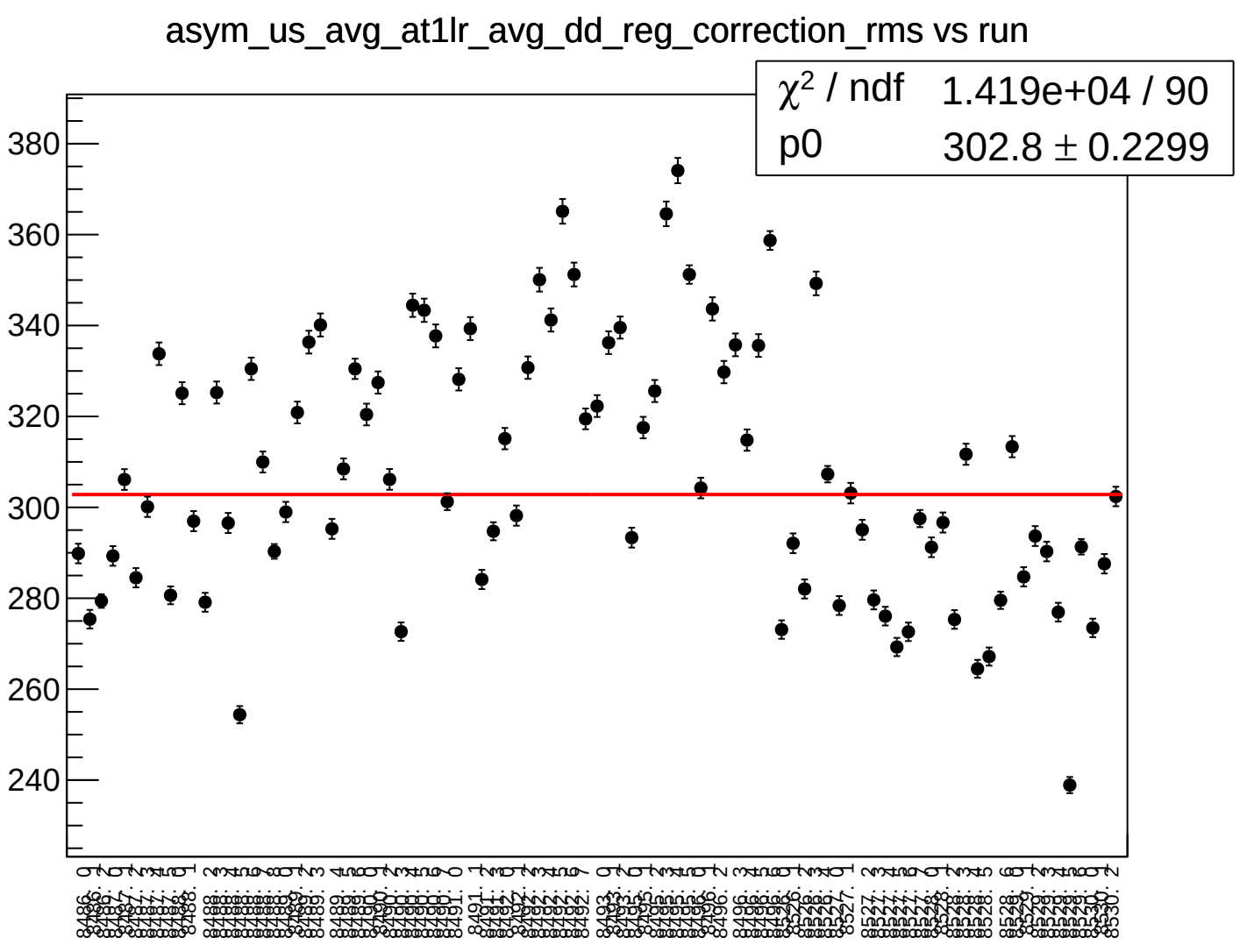

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 97.63 / 90
p0 −790 ± 1848
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean −83.5
Std Dev 0
3
2
1
0
−1
−2
−3

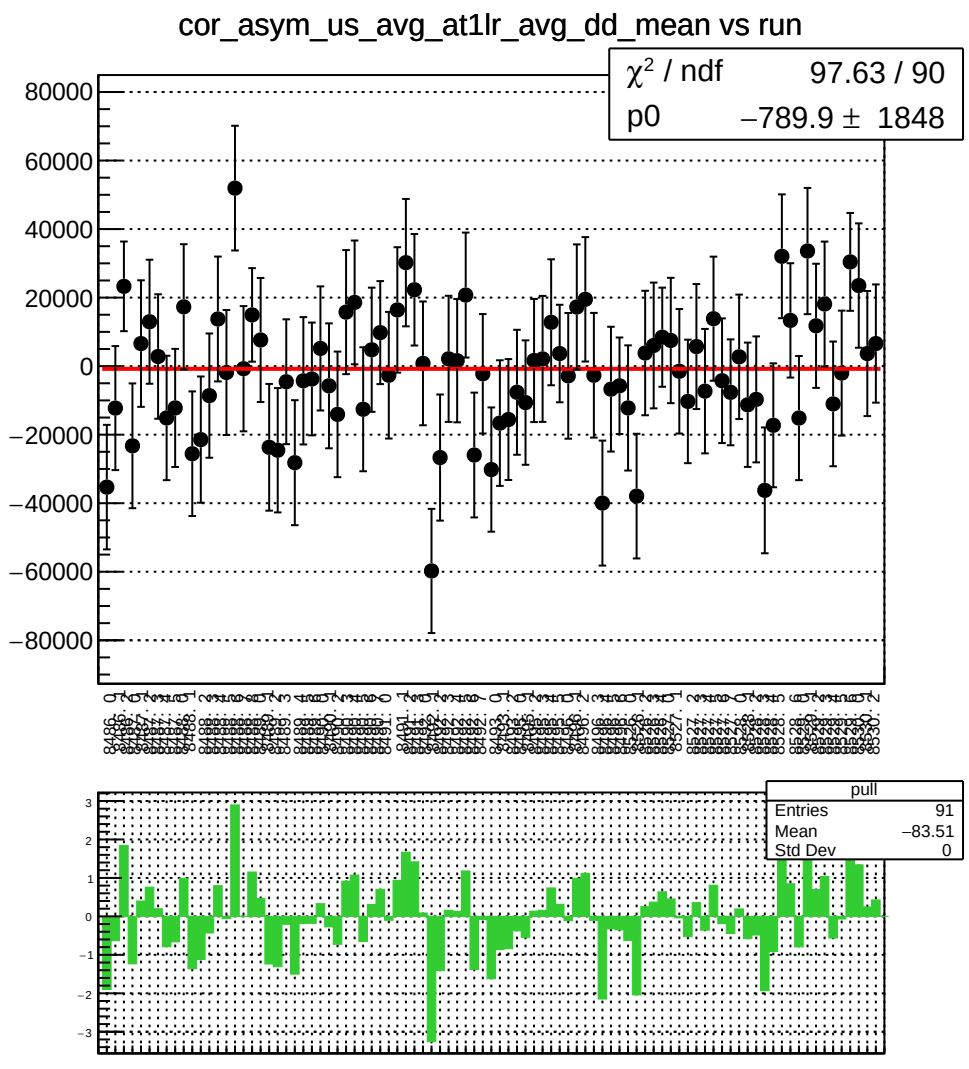

pull1D
Entries 91
Mean −0.02313
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

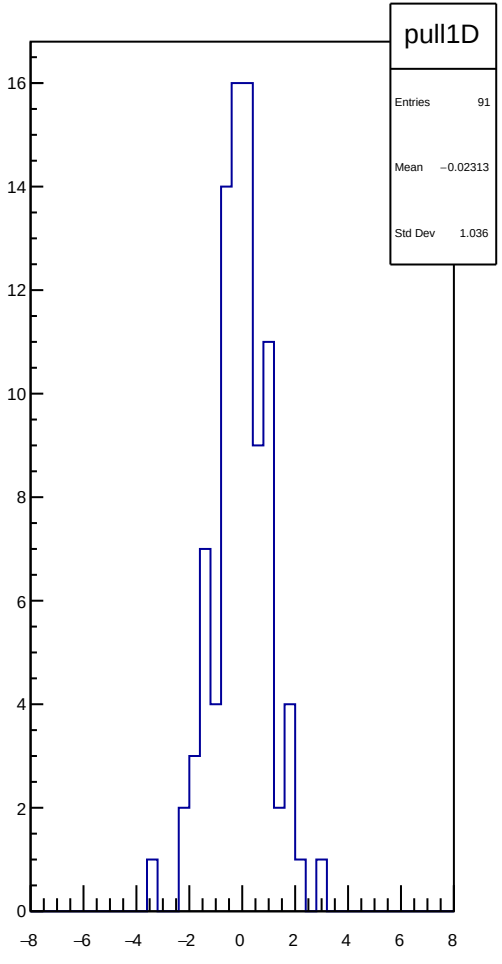

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 74.08 / 90
p0 1729 ± 1.307
1780
1760
1740
1720
1700

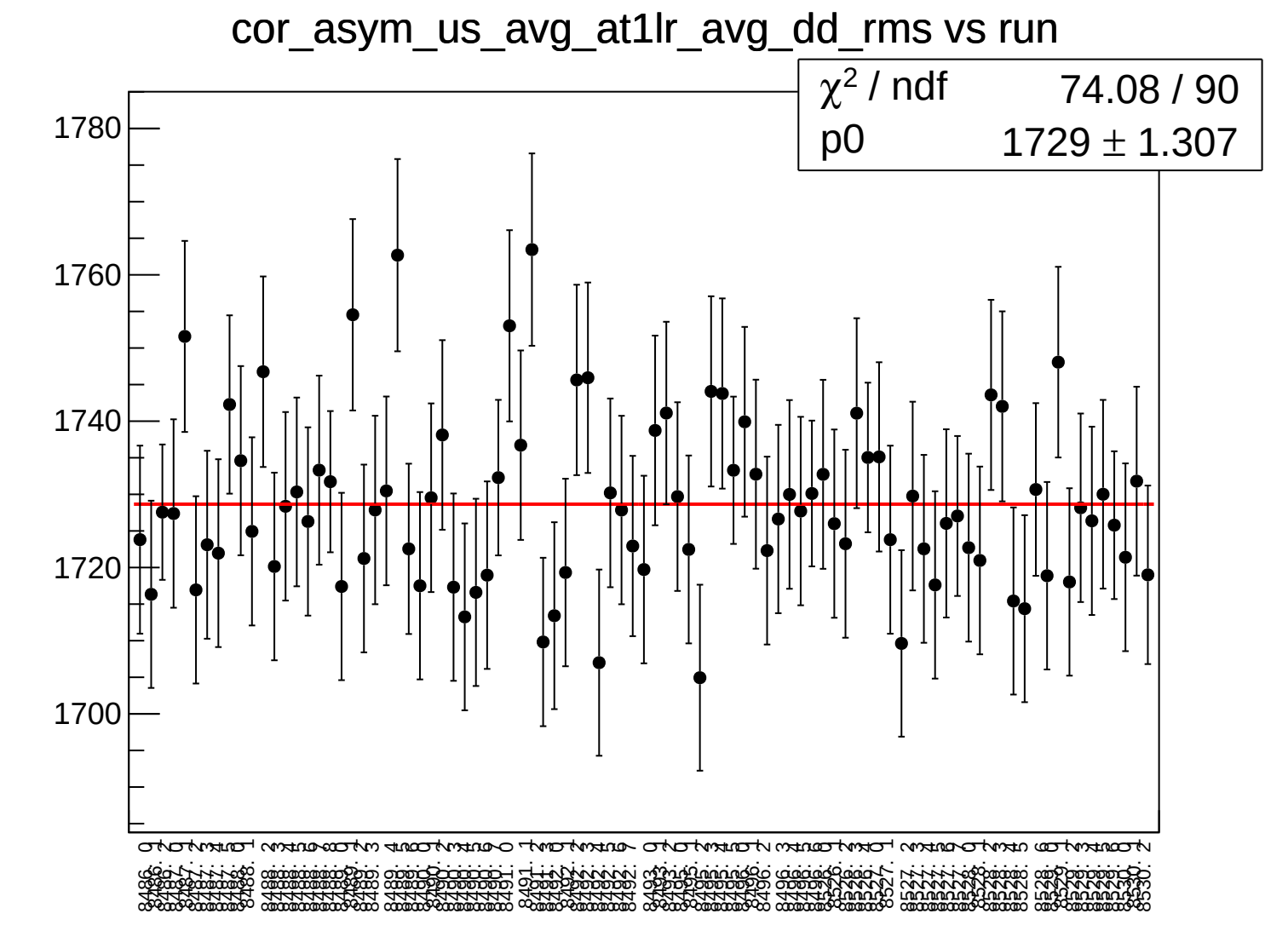

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 95.38 / 90
p0 −372.7 ± 325.1
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 22.7
Std Dev 0
3
2
1
0
−1
−2
−3

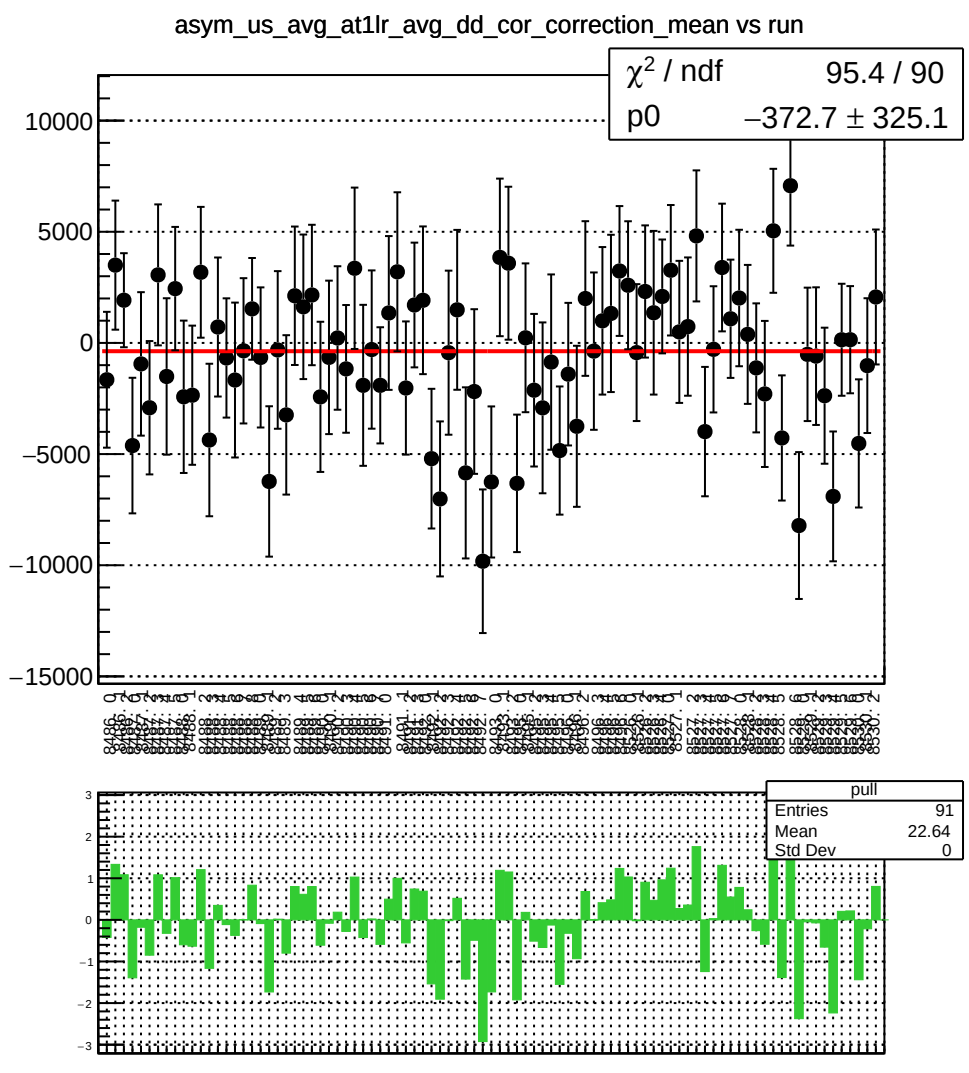

pull1D
Entries 91
Mean −0.03066
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

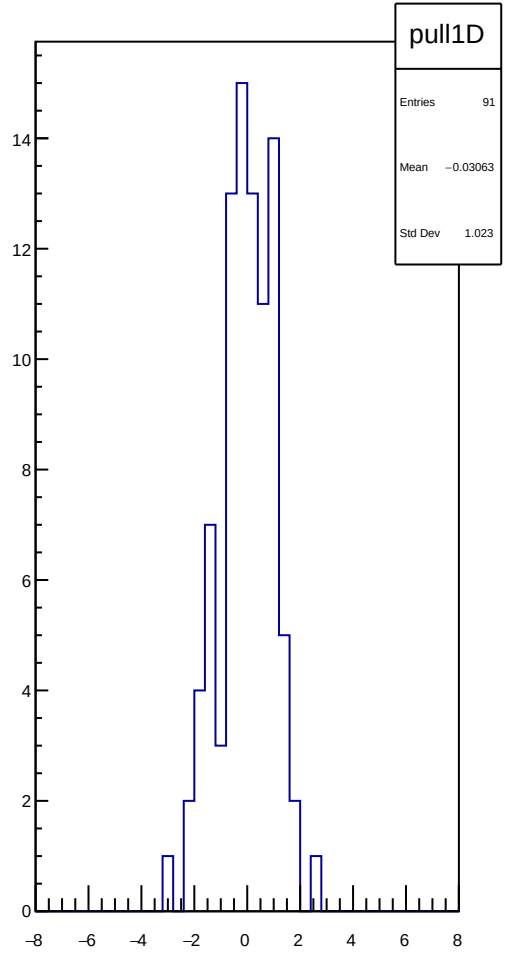

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.419e+04 / 90
p0 302.8 ± 0.2299
380
360
340
320
300
280
260
240

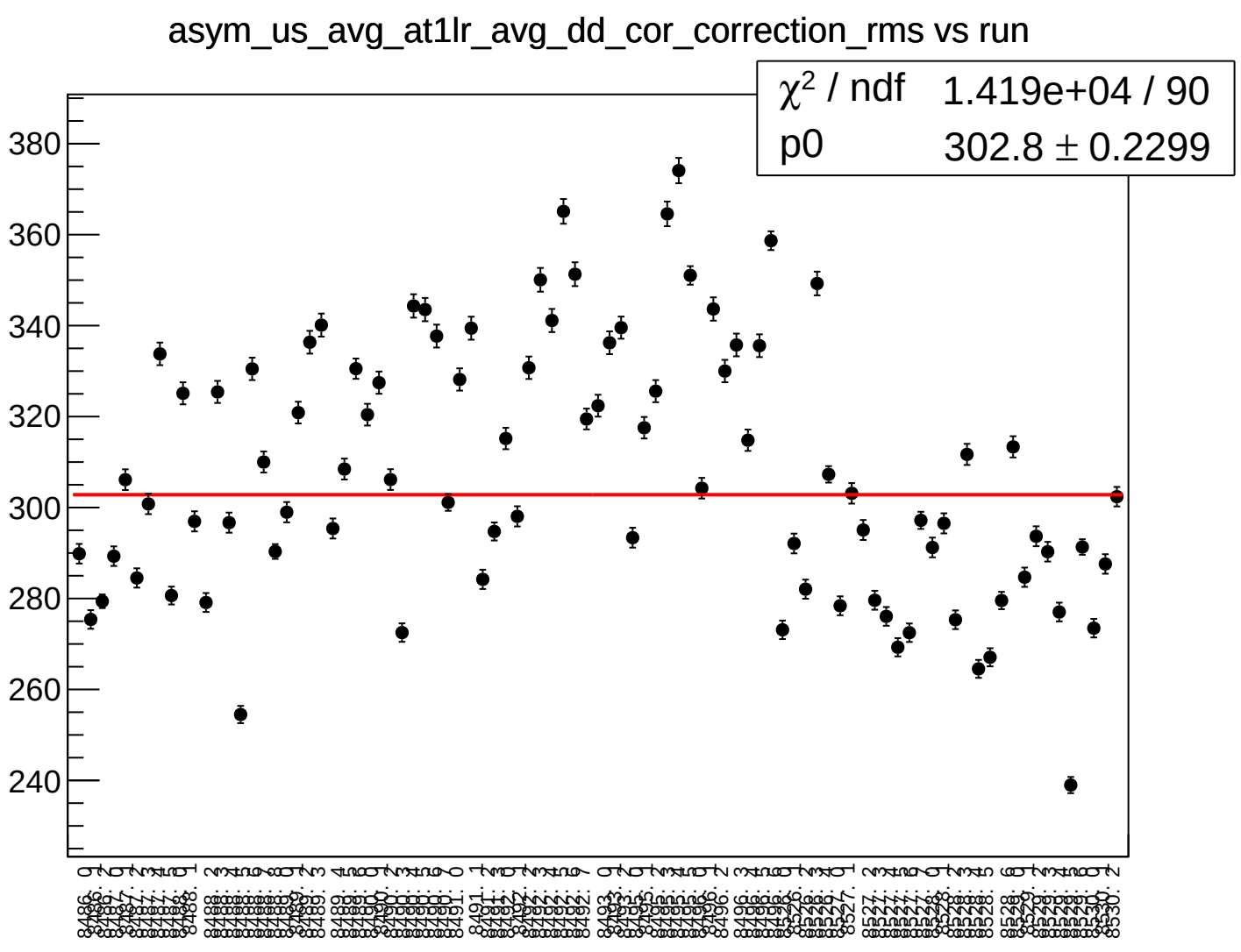

cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 97.63 / 90
p0 −789.9 ± 1848
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean −83.51
Std Dev 0
3
2
1
0
−1
−2
−3

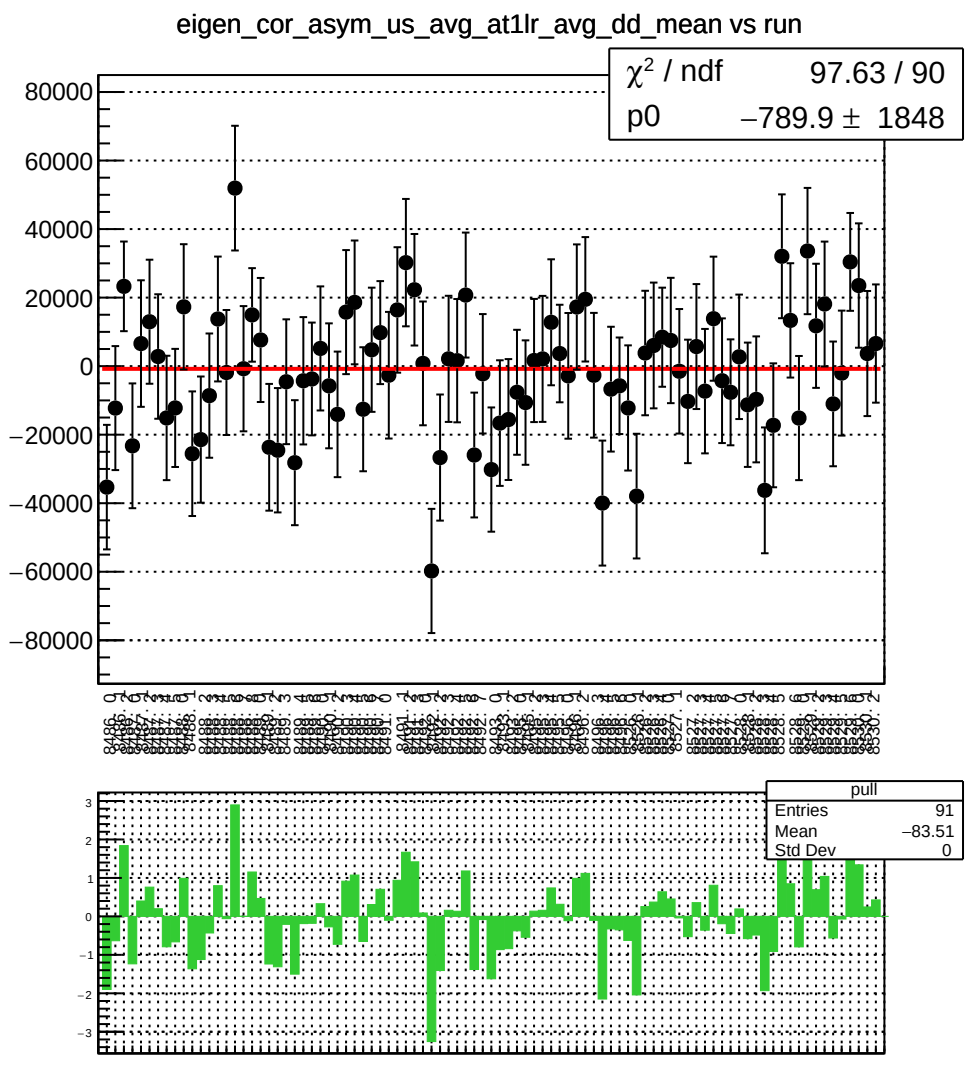

pull1D
Entries 91
Mean −0.02313
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

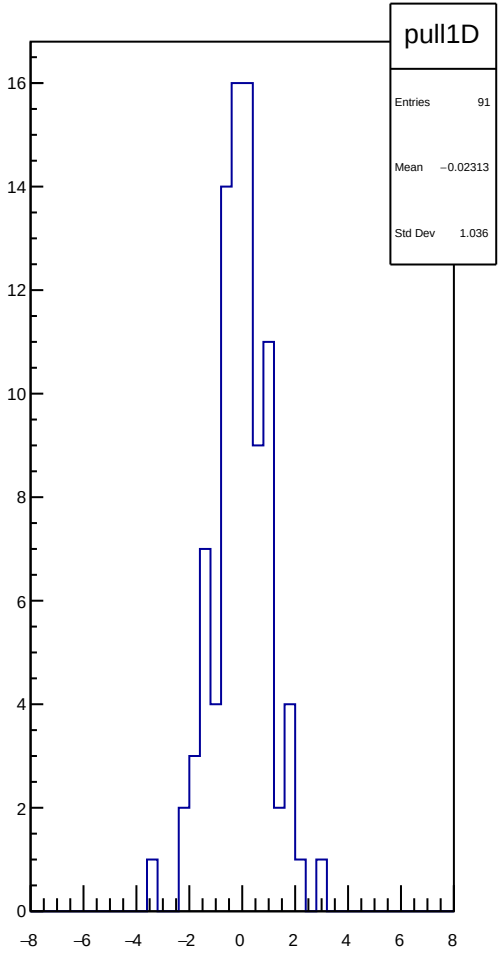

cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 74.08 / 90
p0 1729 ± 1.307
1780
1760
1740
1720
1700

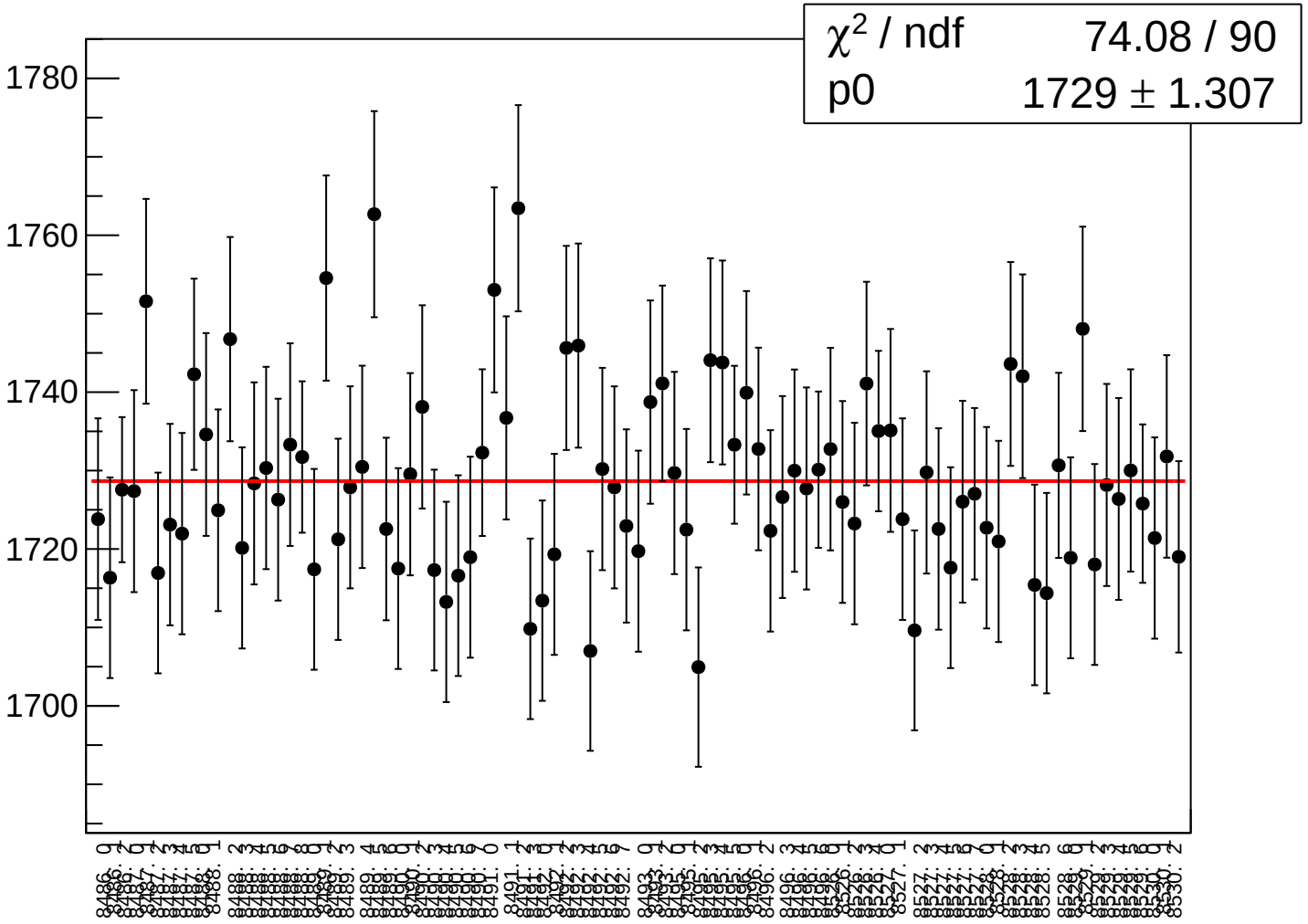

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 95.4 / 90
p0 −372.7 ± 325.1
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 22.64
Std Dev 0
3
2
1
0
−1
−2
−3

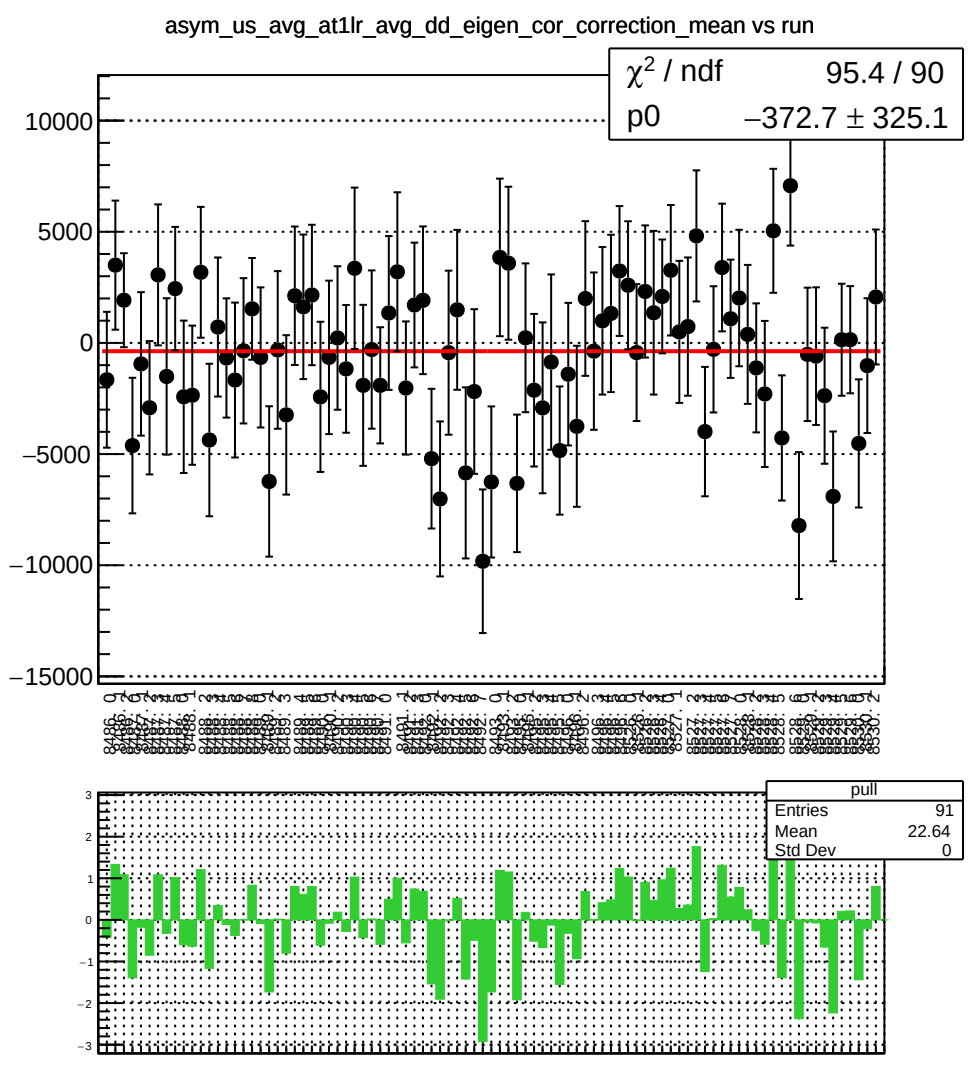

pull1D
Entries 91
Mean −0.03063
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

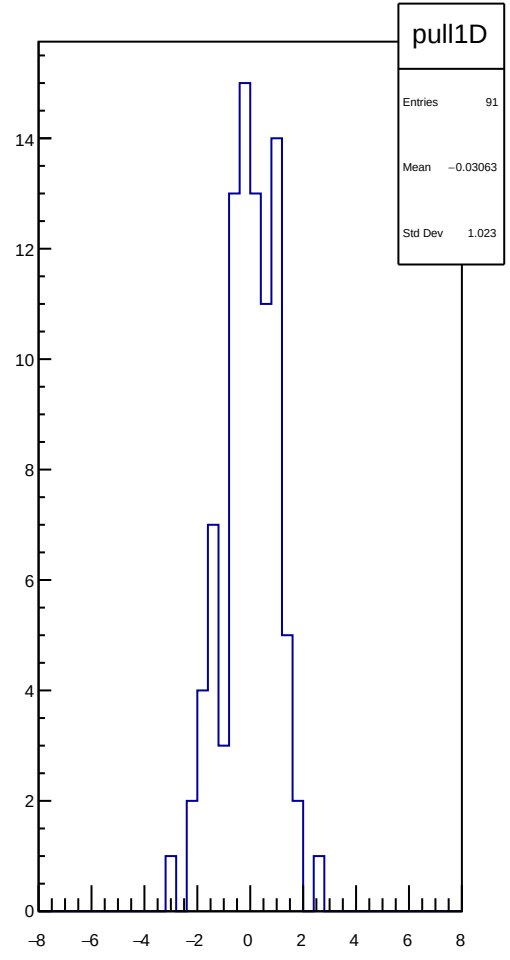

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.419e+04 / 90
p0 302.8 ± 0.2299
380
360
340
320
300
280
260
240

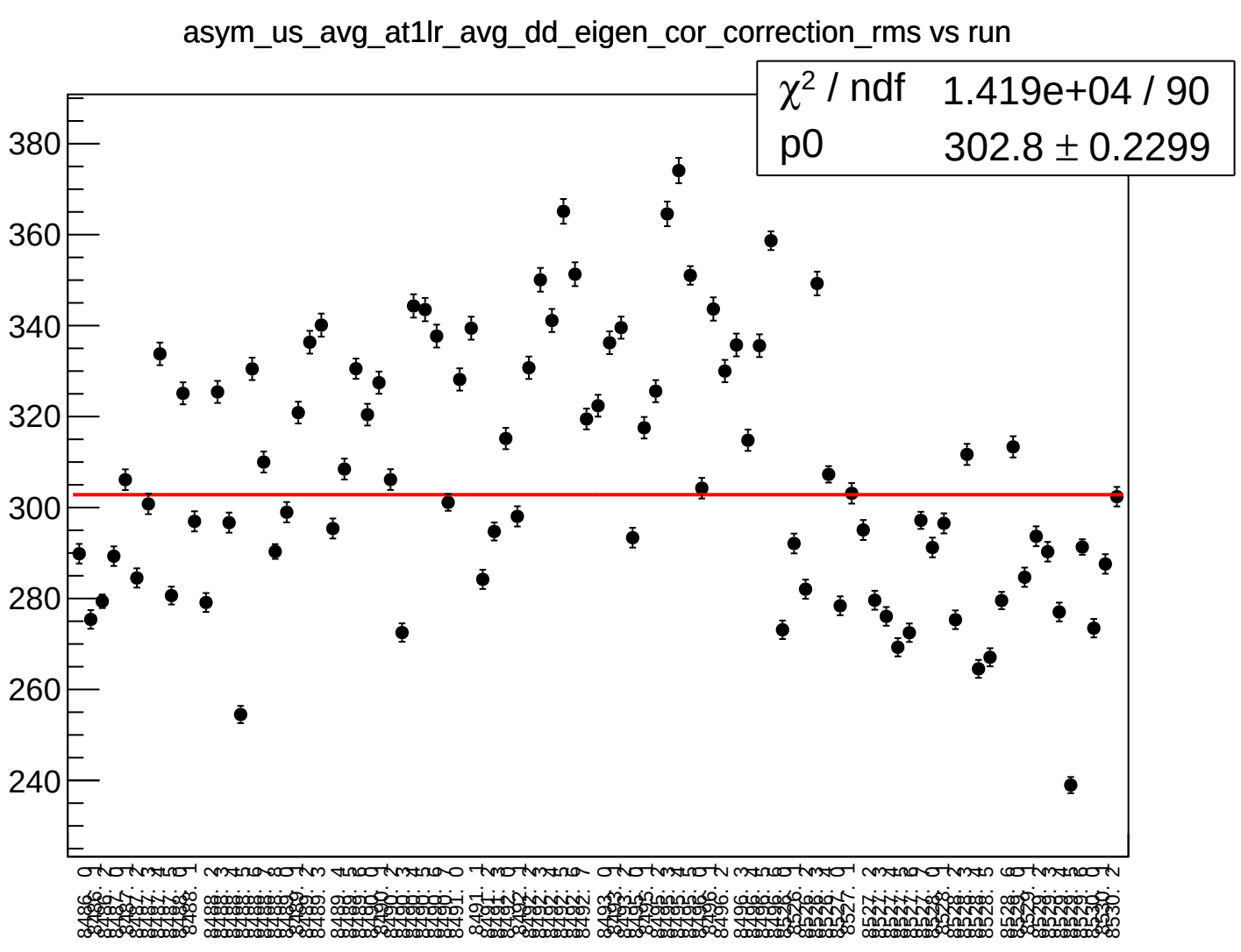

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 97.63 / 90
p0 −789.9 ± 1848
pull
Entries 91
Mean −83.51
Std Dev 0

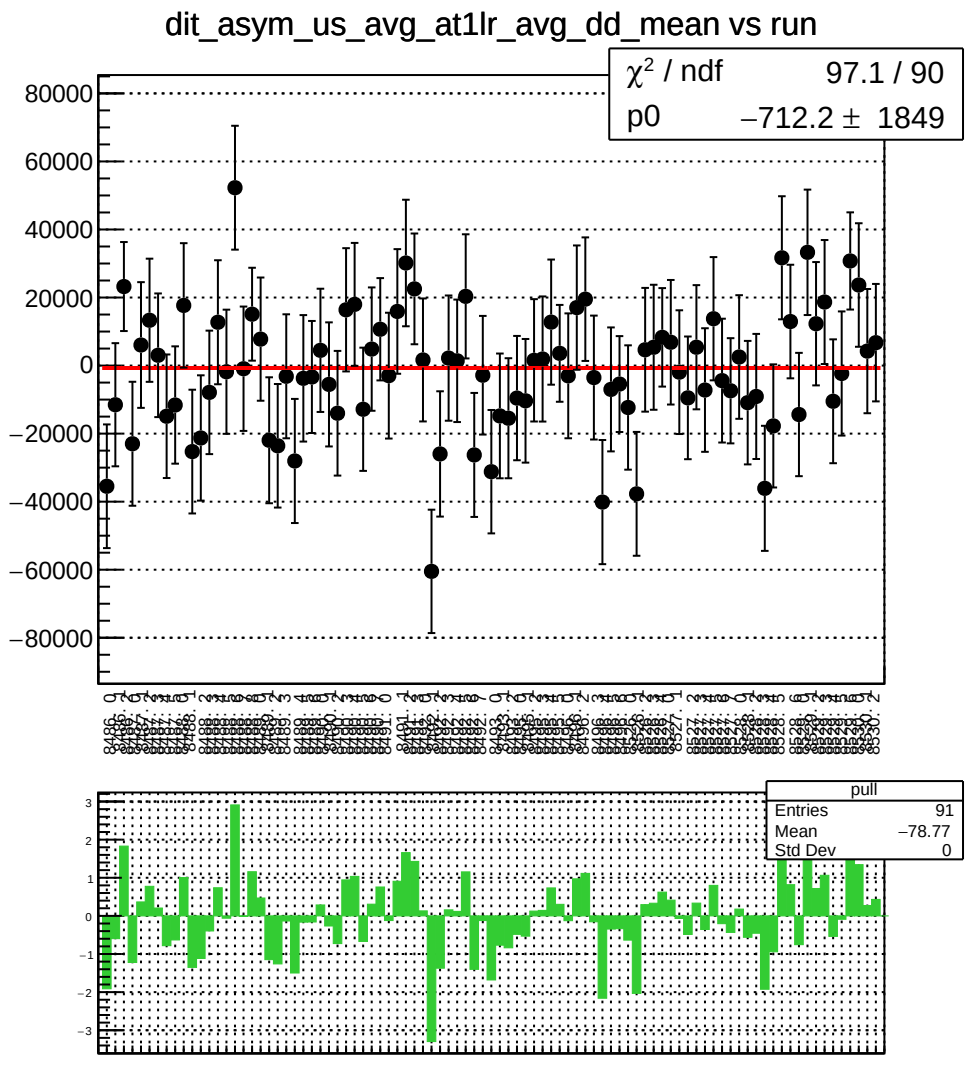

pull1D
Entries 91
Mean −0.02313
Std Dev 1.036

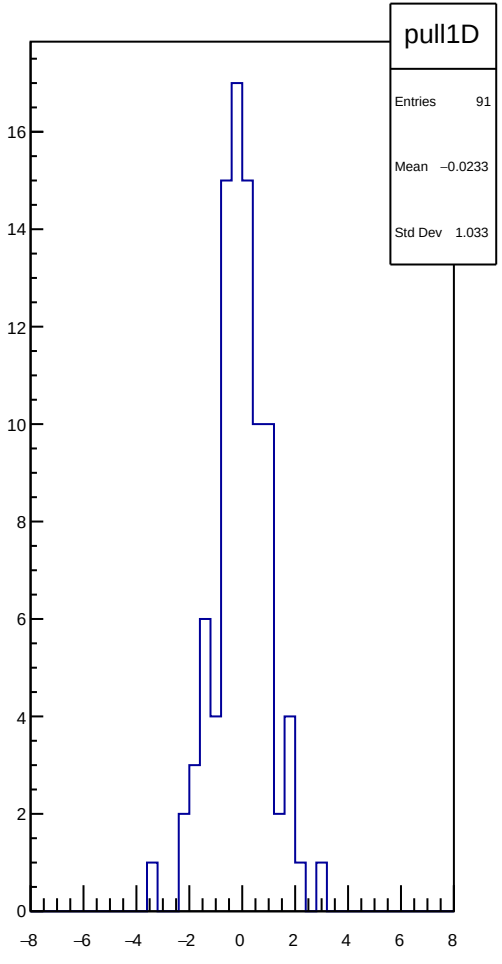

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 74.08 / 90
p0 1729 ± 1.307
1780
1760
1740
1720
1700

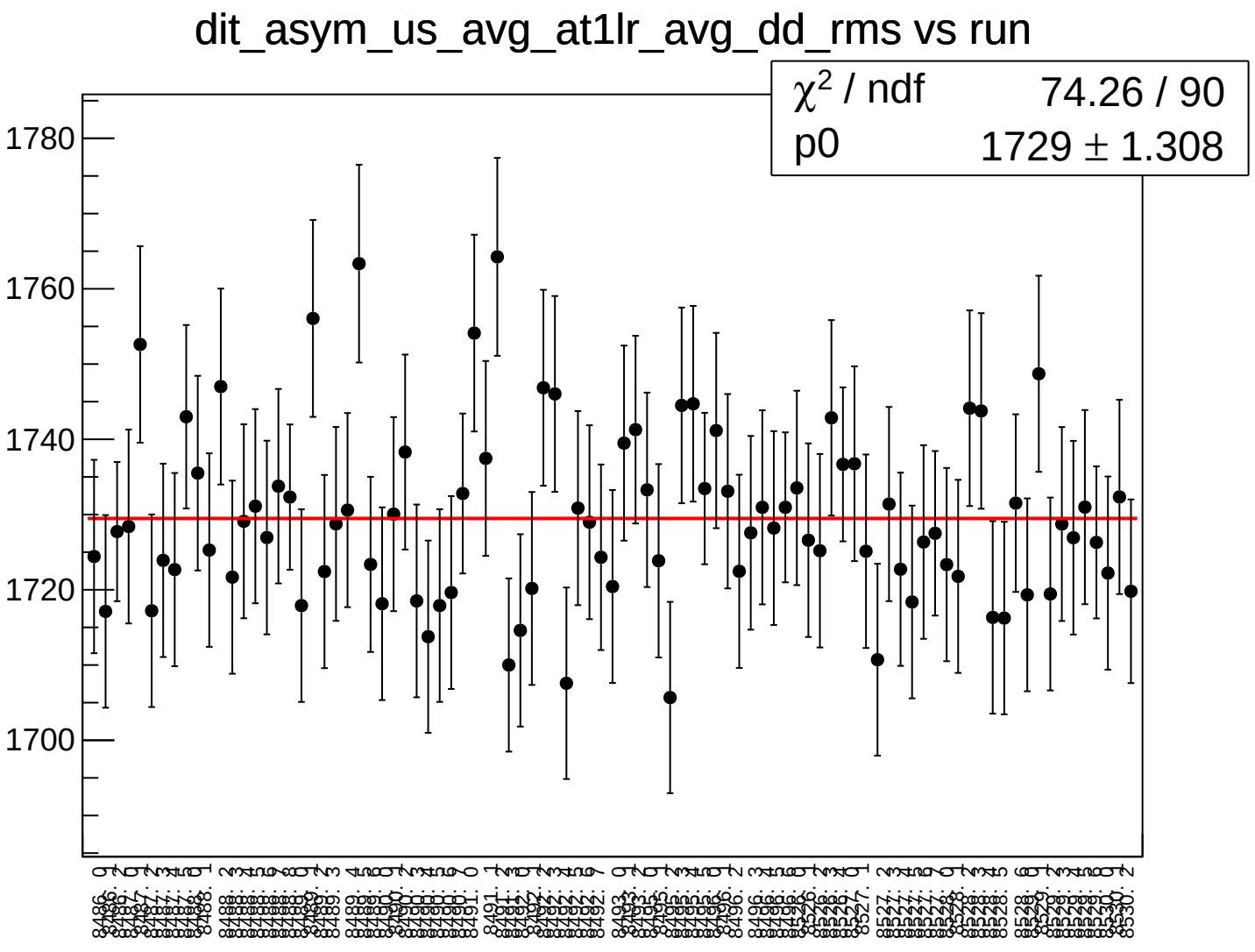

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 95.4 / 90
p0 −372.7 ± 325.1
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 22.64
Std Dev 0
3
2
1
0
−1
−2
−3

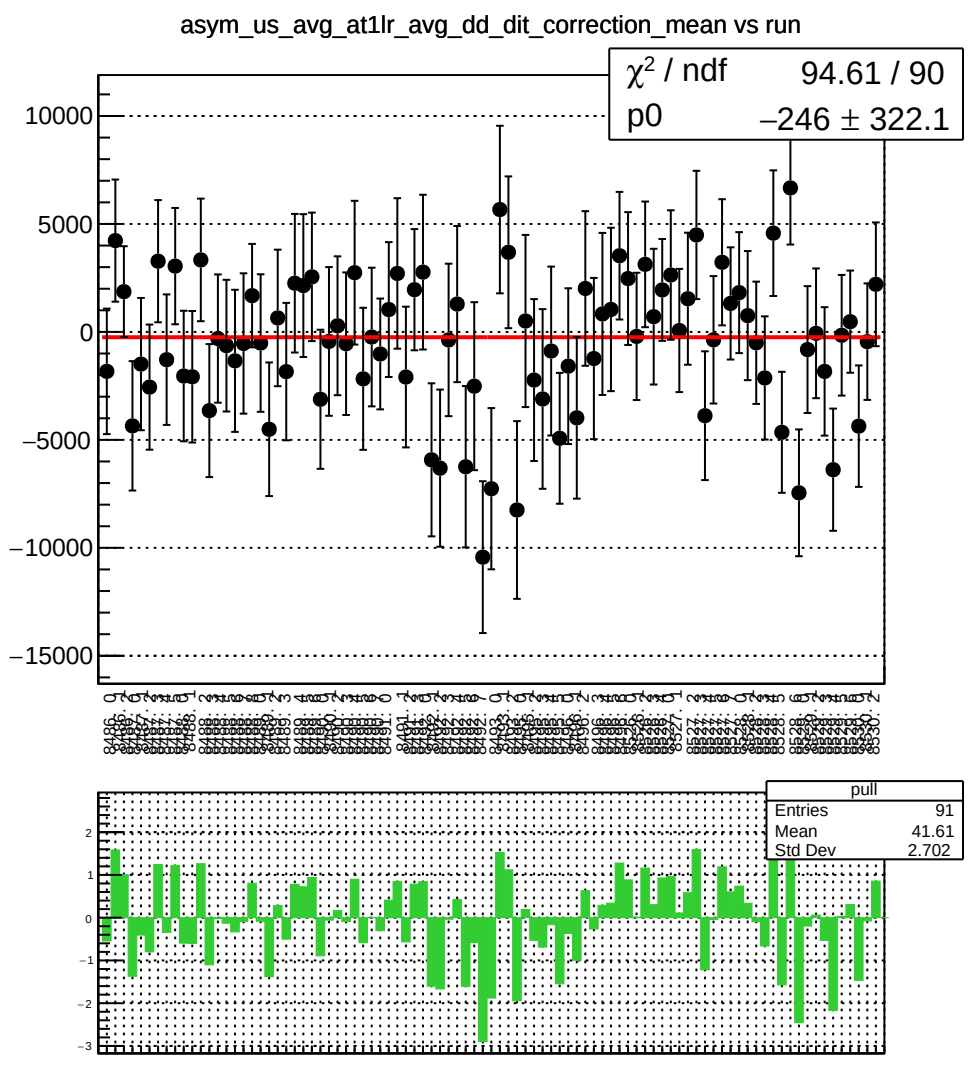

pull1D
Entries 91
Mean −0.03063
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

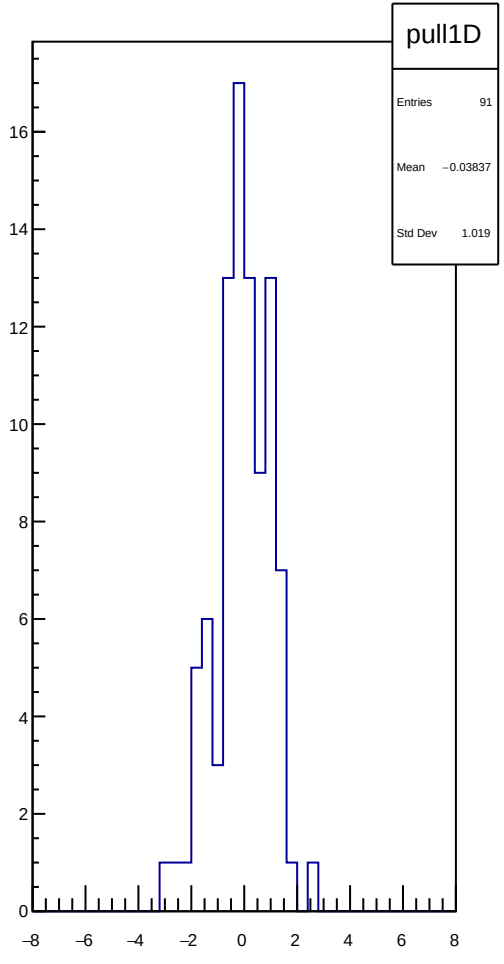

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.419e+04 / 90
p0 302.8 ± 0.2299
380
360
340
320
300
280
260
240

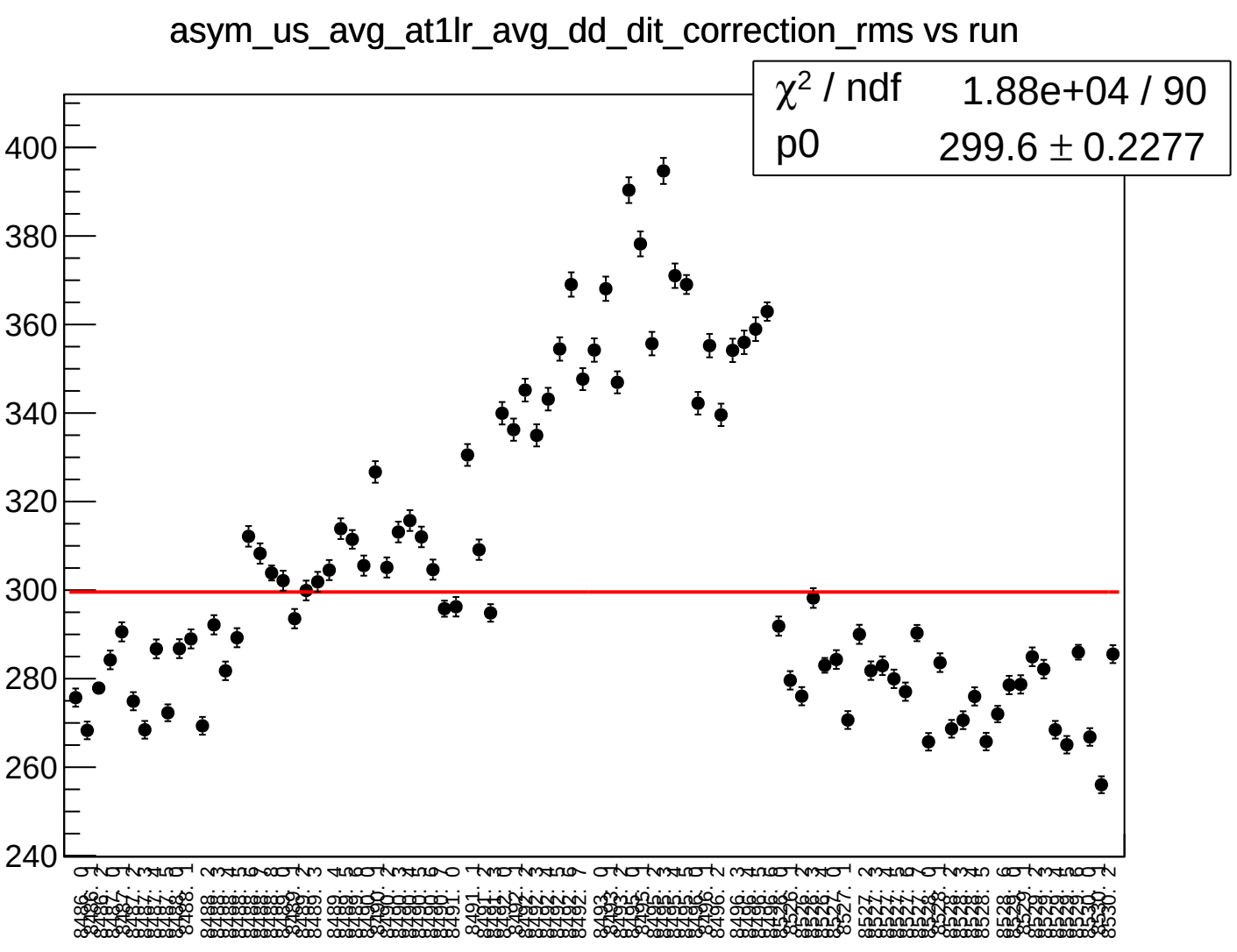

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 97.1 / 90
p0 −712.2 ± 1849
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean −78.77
Std Dev 0
3
2
1
0
−1
−2
−3

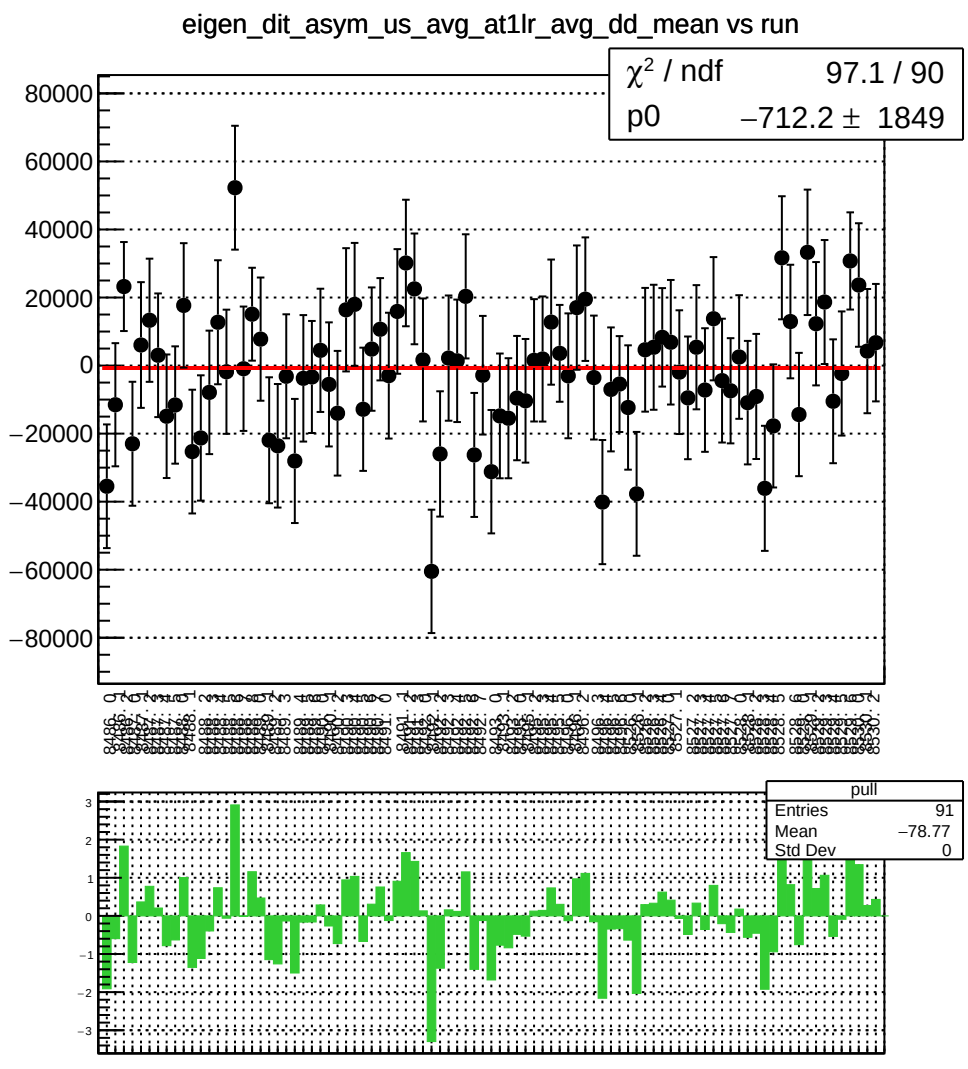

pull1D
Entries 91
Mean −0.0233
Std Dev 1.033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

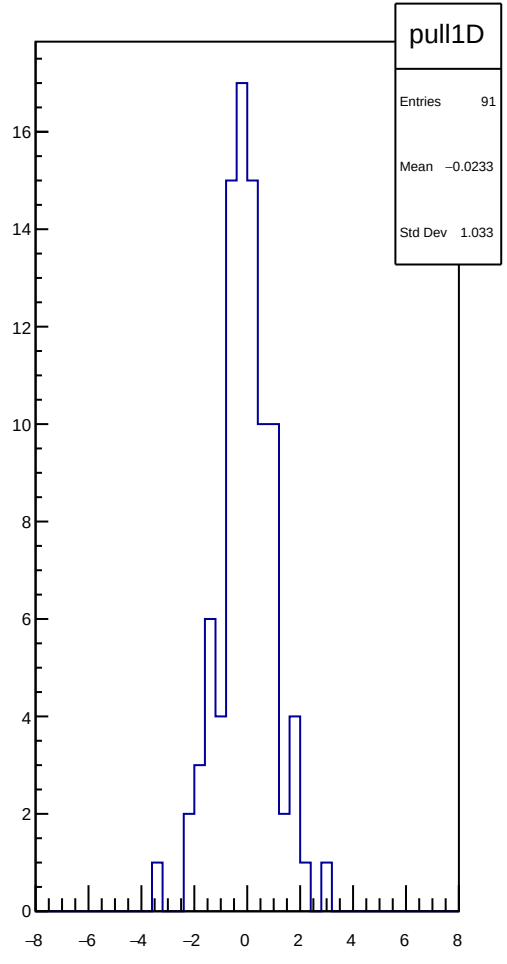

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 74.26 / 90
p0 1729 ± 1.308
1780
1760
1740
1720
1700

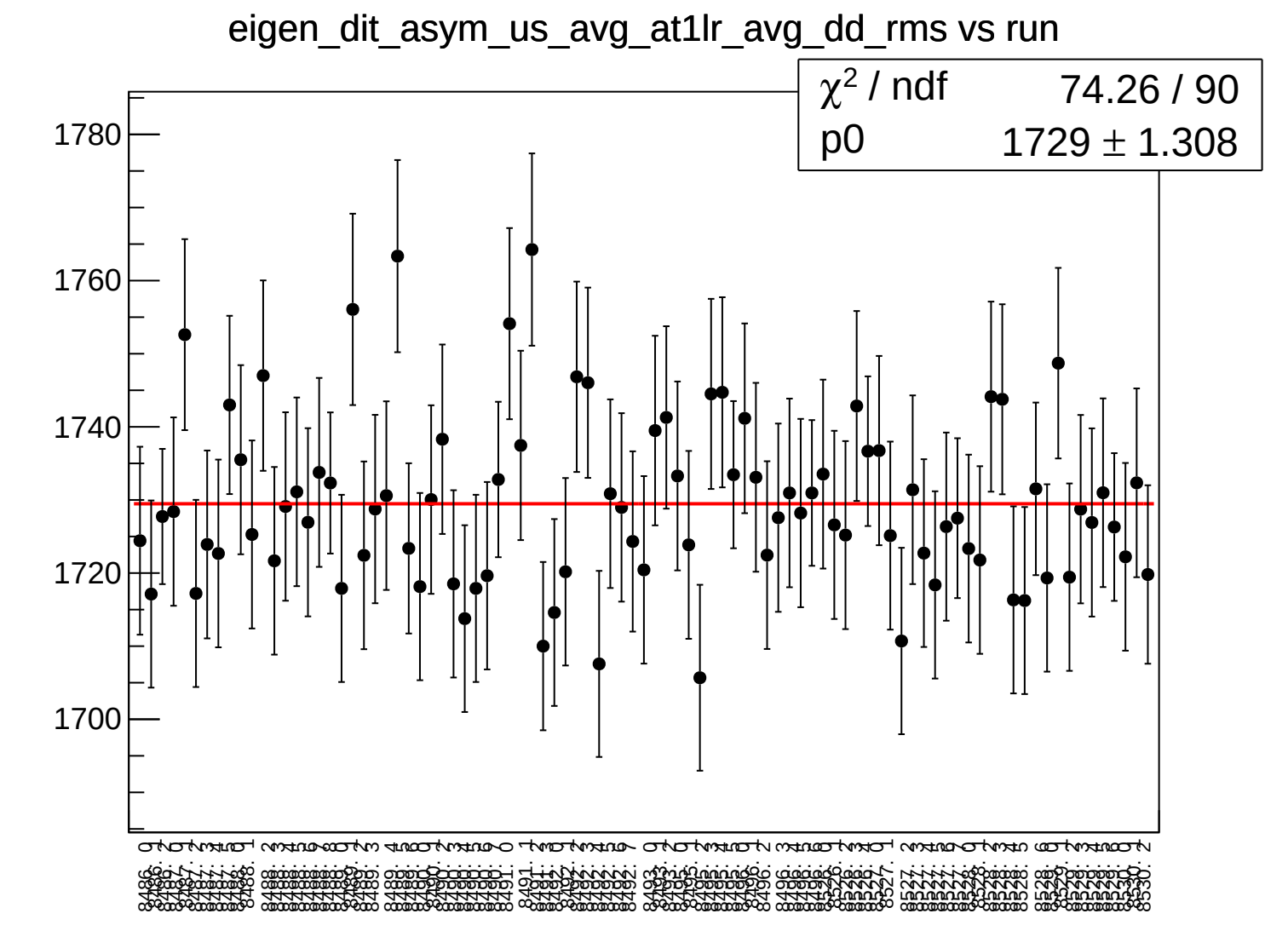

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 94.61 / 90
p0 −246 ± 322.1
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 41.61
Std Dev 2.702
2
1
0
−1
−2
−3

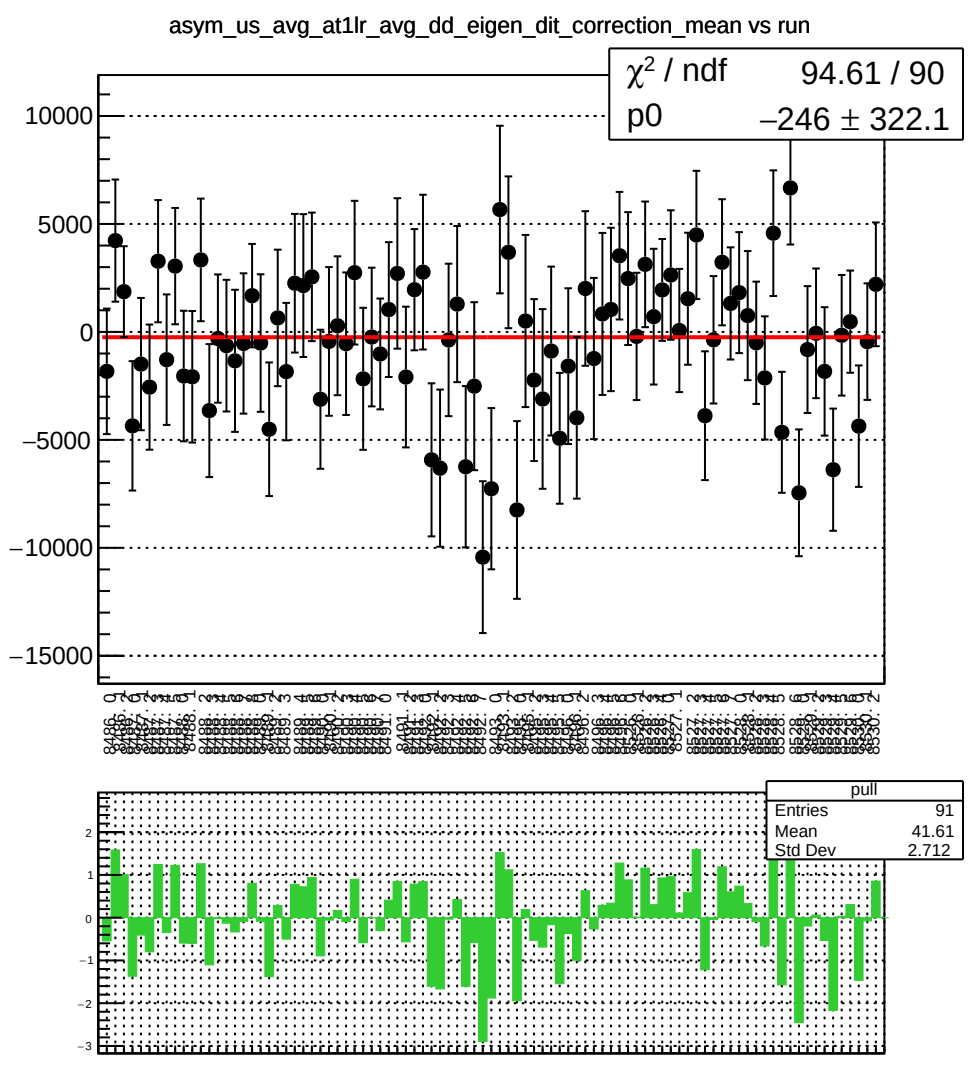

pull1D
Entries 91
Mean −0.03837
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

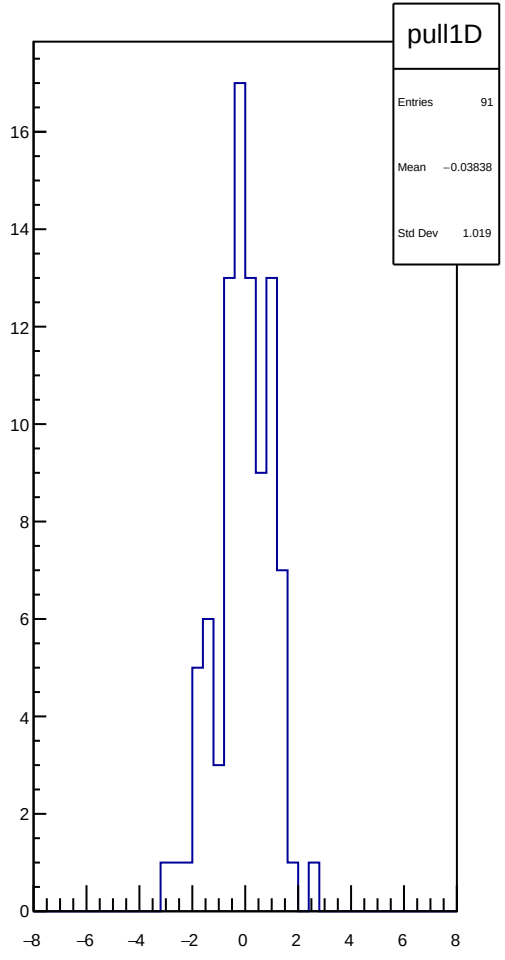

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 1.88e+04 / 90
p0 299.6 ± 0.2277
400
380
360
340
320
300
280
260
240

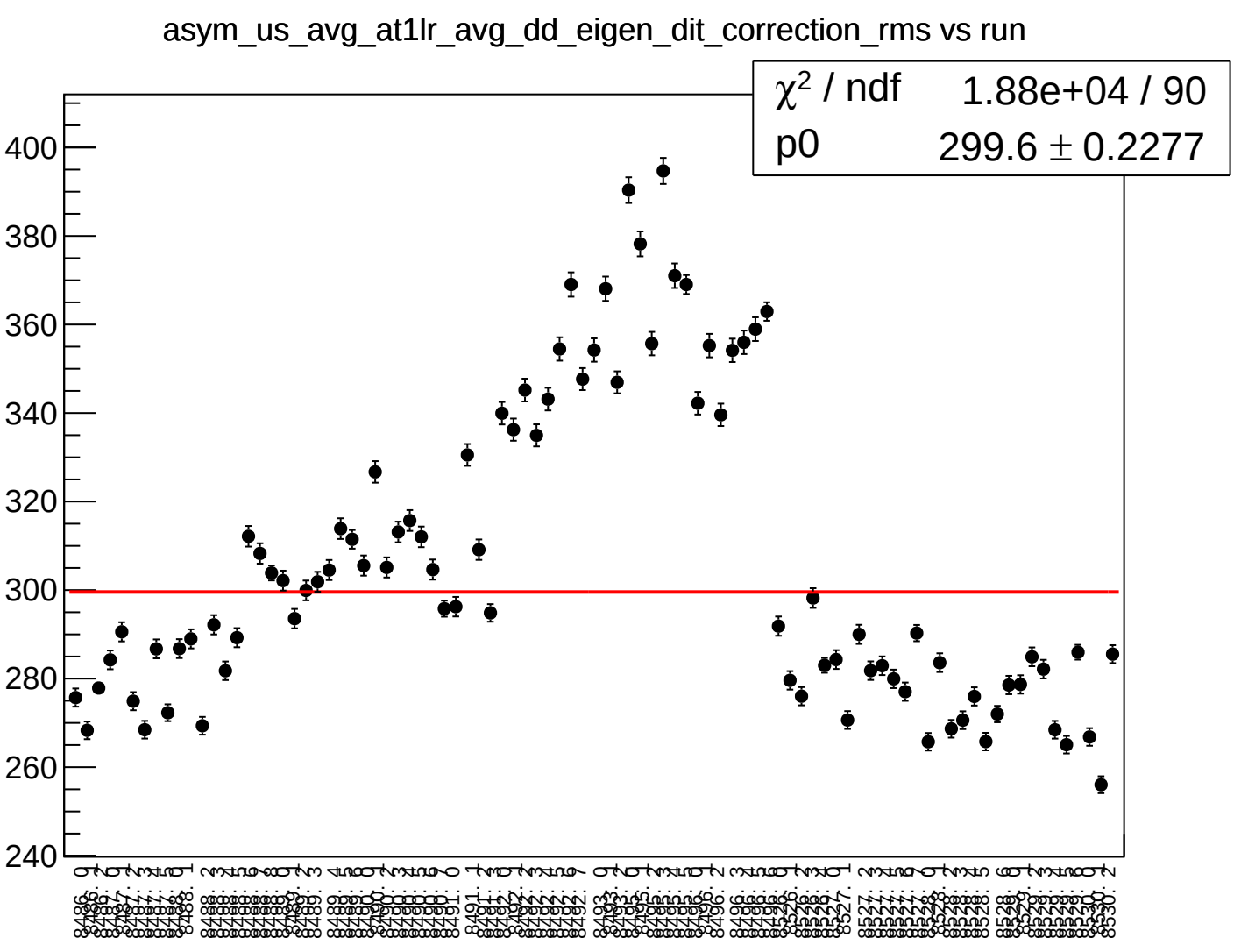

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 97.1 / 90
p0 −712.2 ± 1849
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean −78.77
Std Dev 0
3
2
1
0
−1
−2
−3

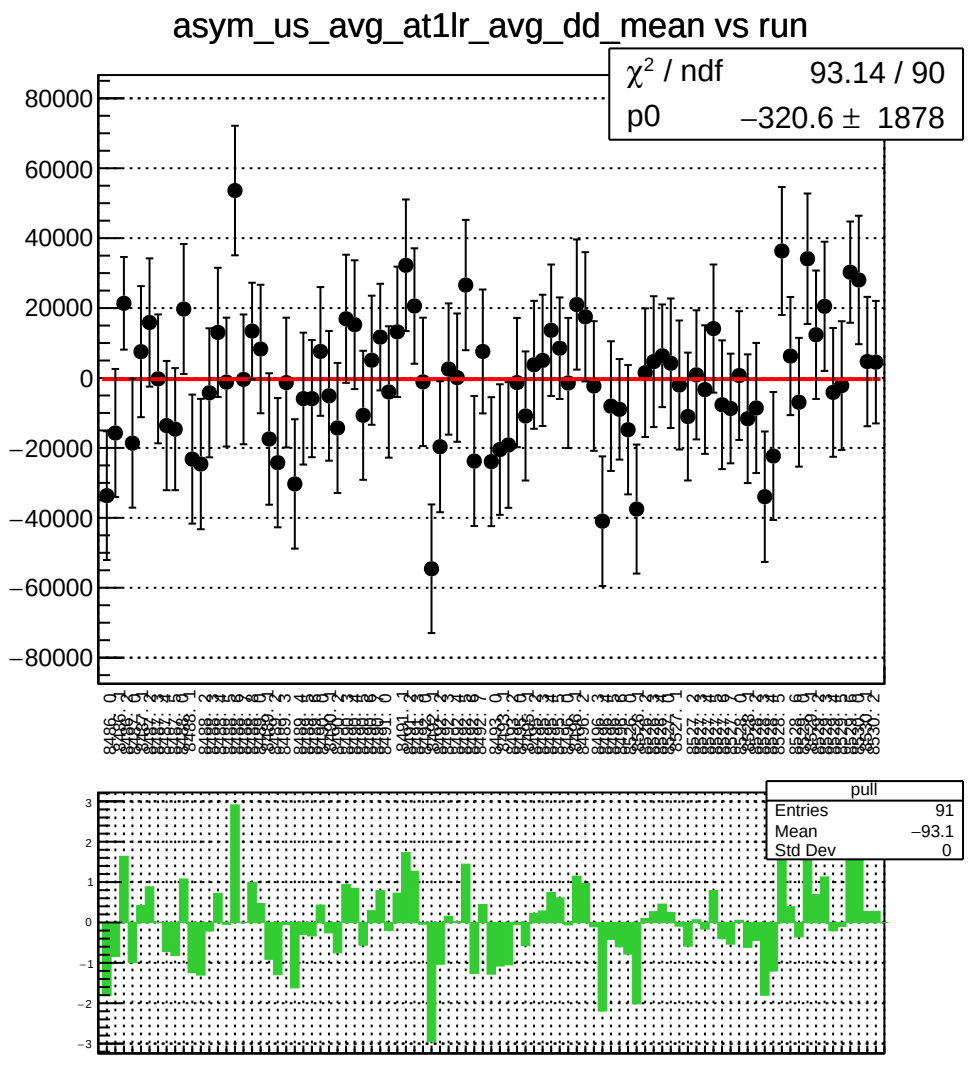

pull1D
Entries 91
Mean −0.0233
Std Dev 1.033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

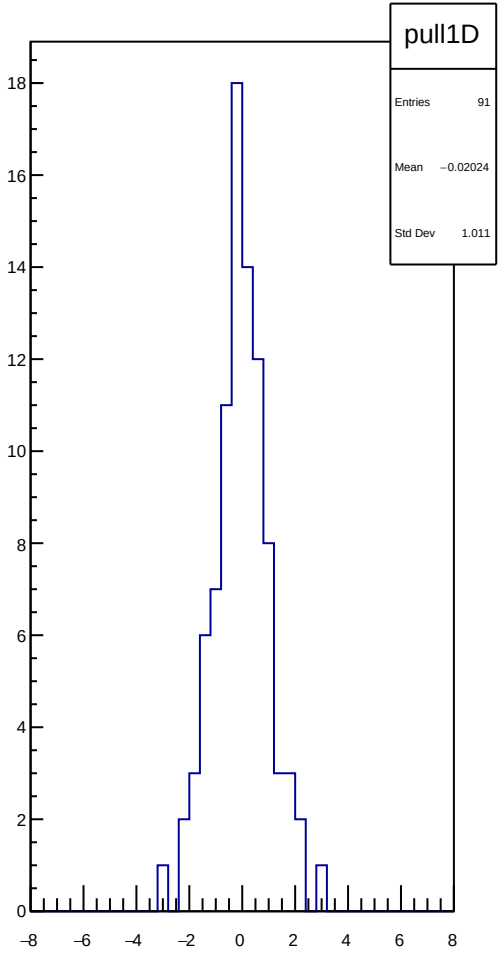

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 74.26 / 90
p0 1729 ± 1.308
1780
1760
1740
1720
1700

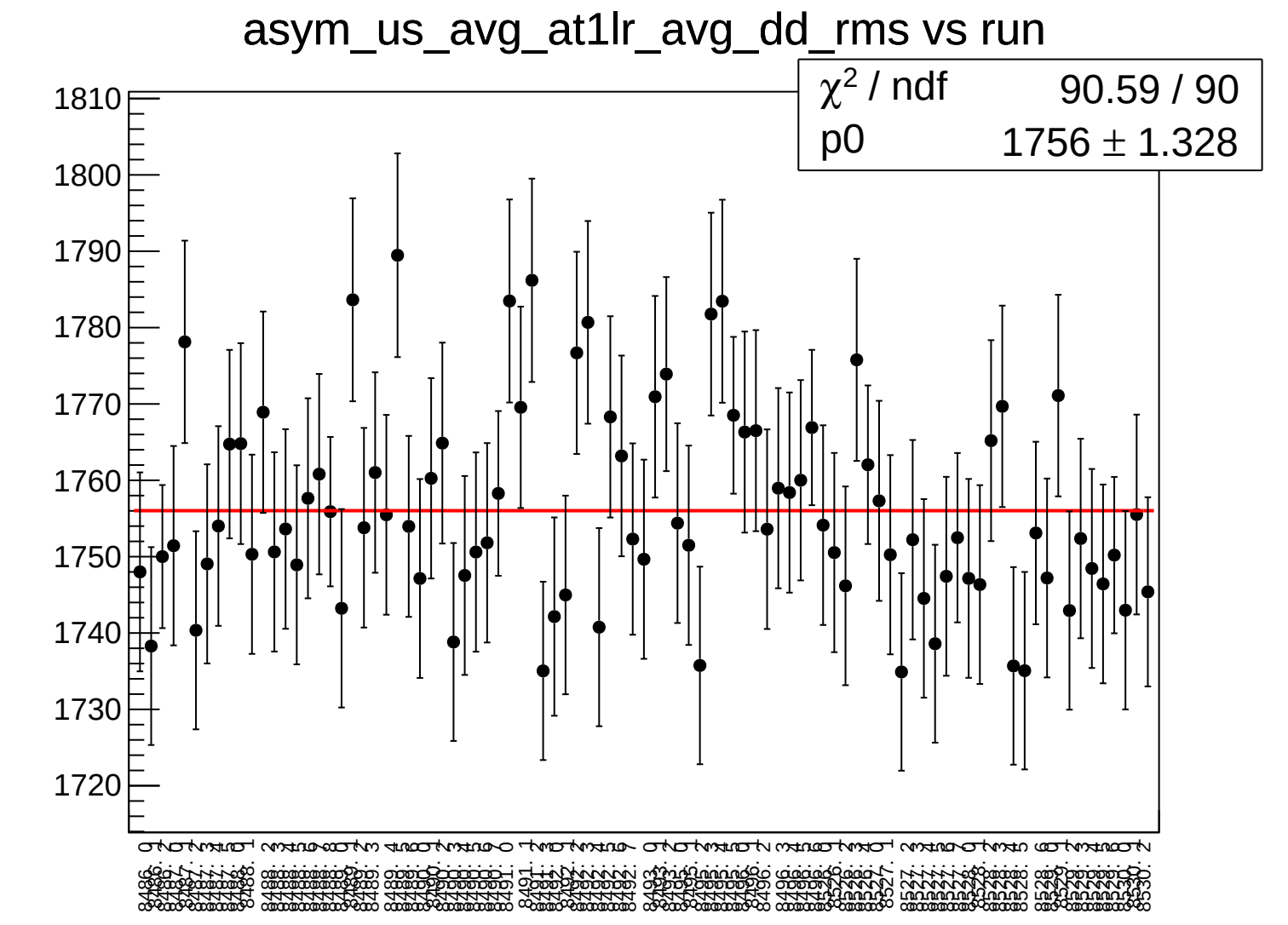

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 94.61 / 90
p0 −246 ± 322.1
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 41.61
Std Dev 2.712
2
1
0
−1
−2
−3

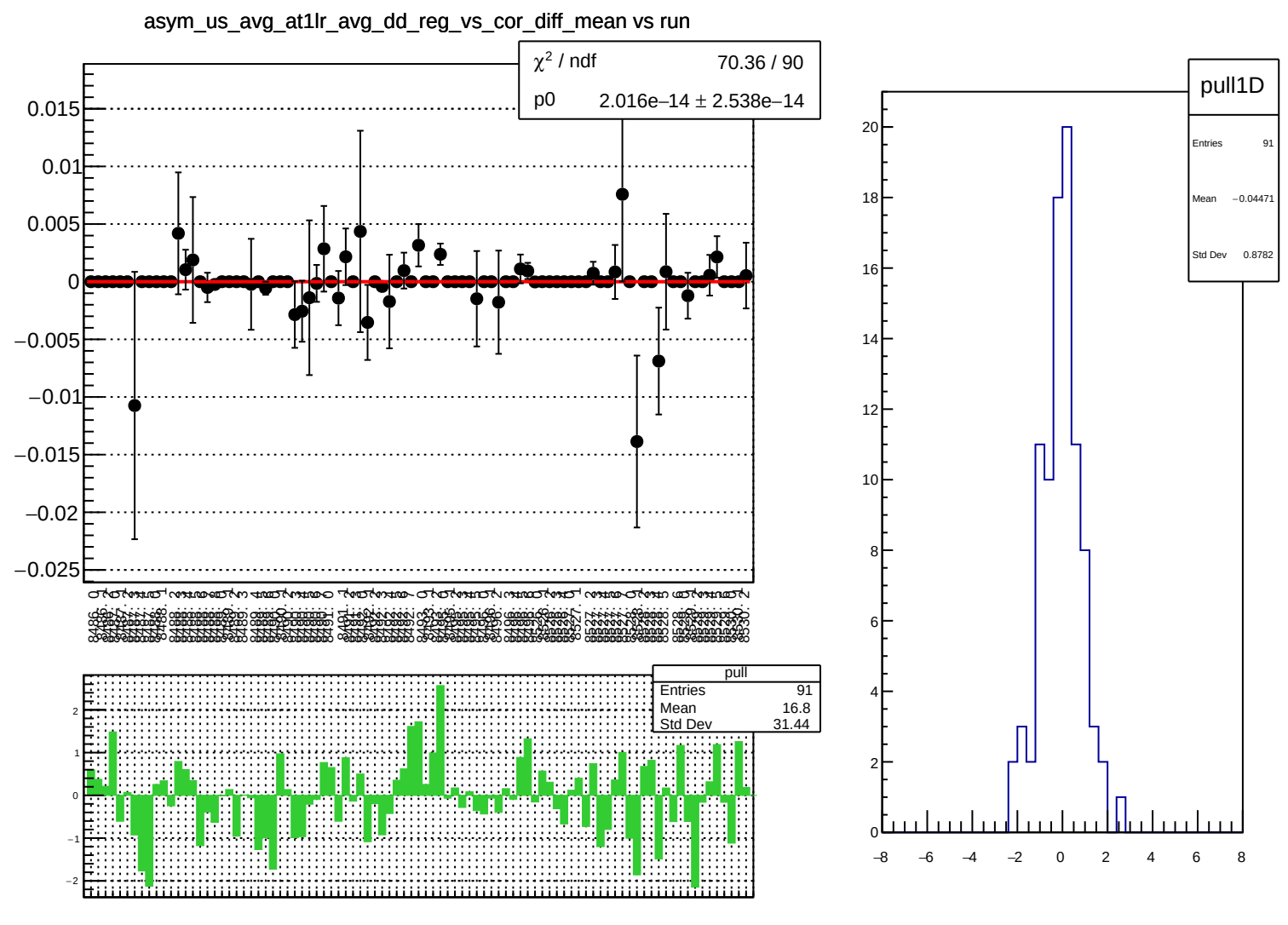

pull1D
Entries 91
Mean −0.03838
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

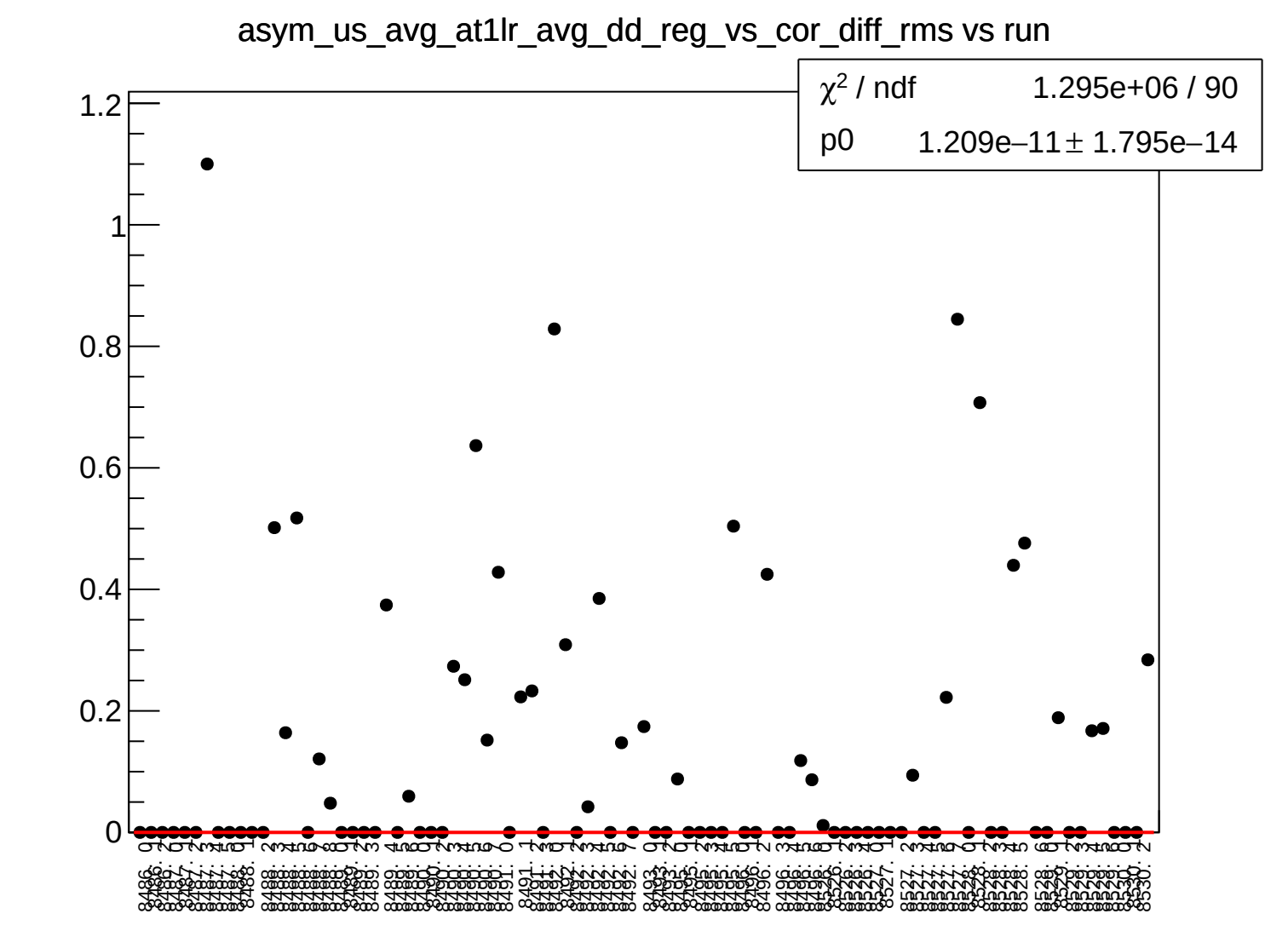

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.88e+04 / 90
p0 299.6 ± 0.2277
400
380
360
340
320
300
280
260
240

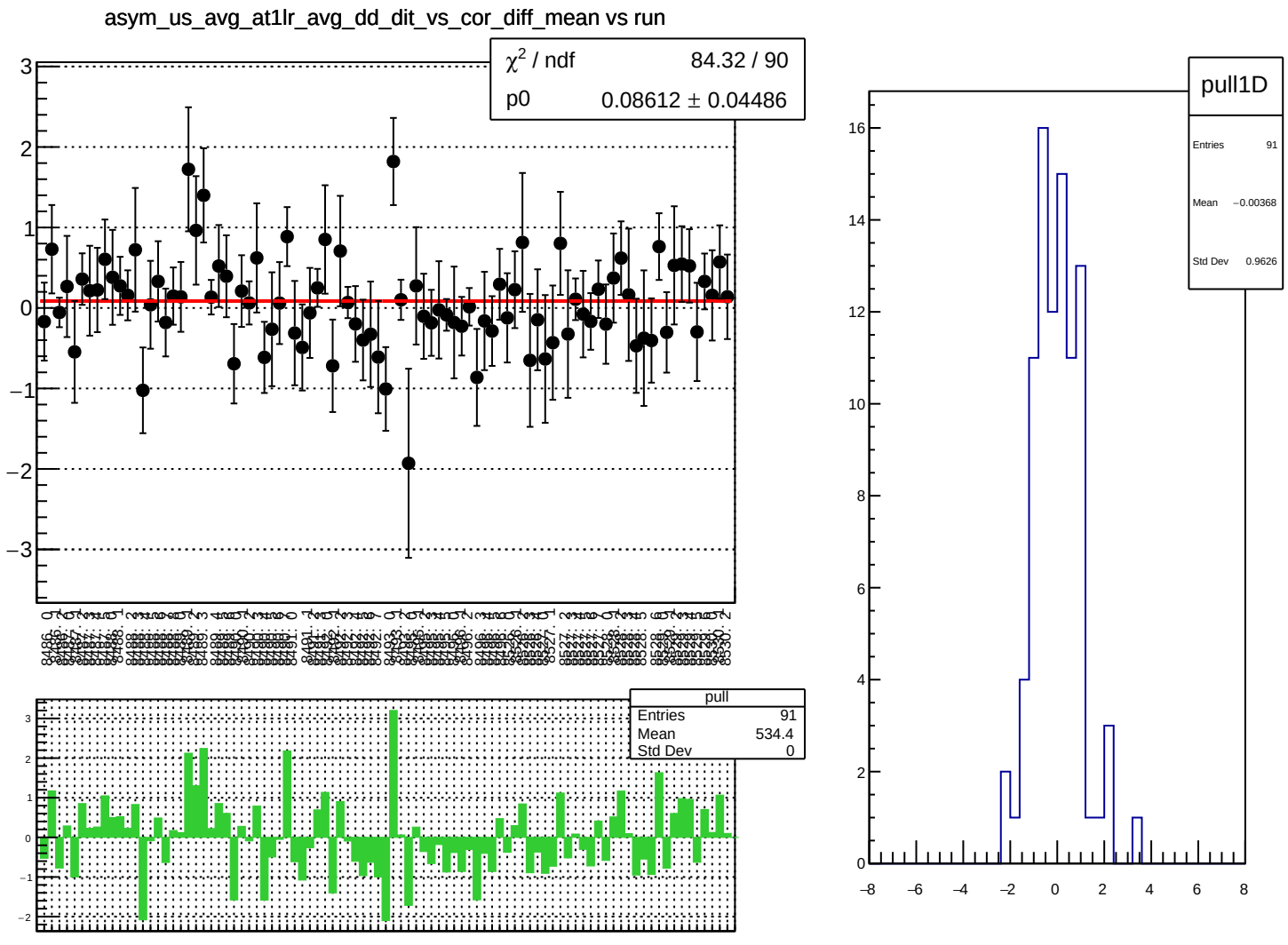

asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 93.14 / 90
p0 −320.6 ± 1878
pull
Entries 91
Mean −93.1
Std Dev 0

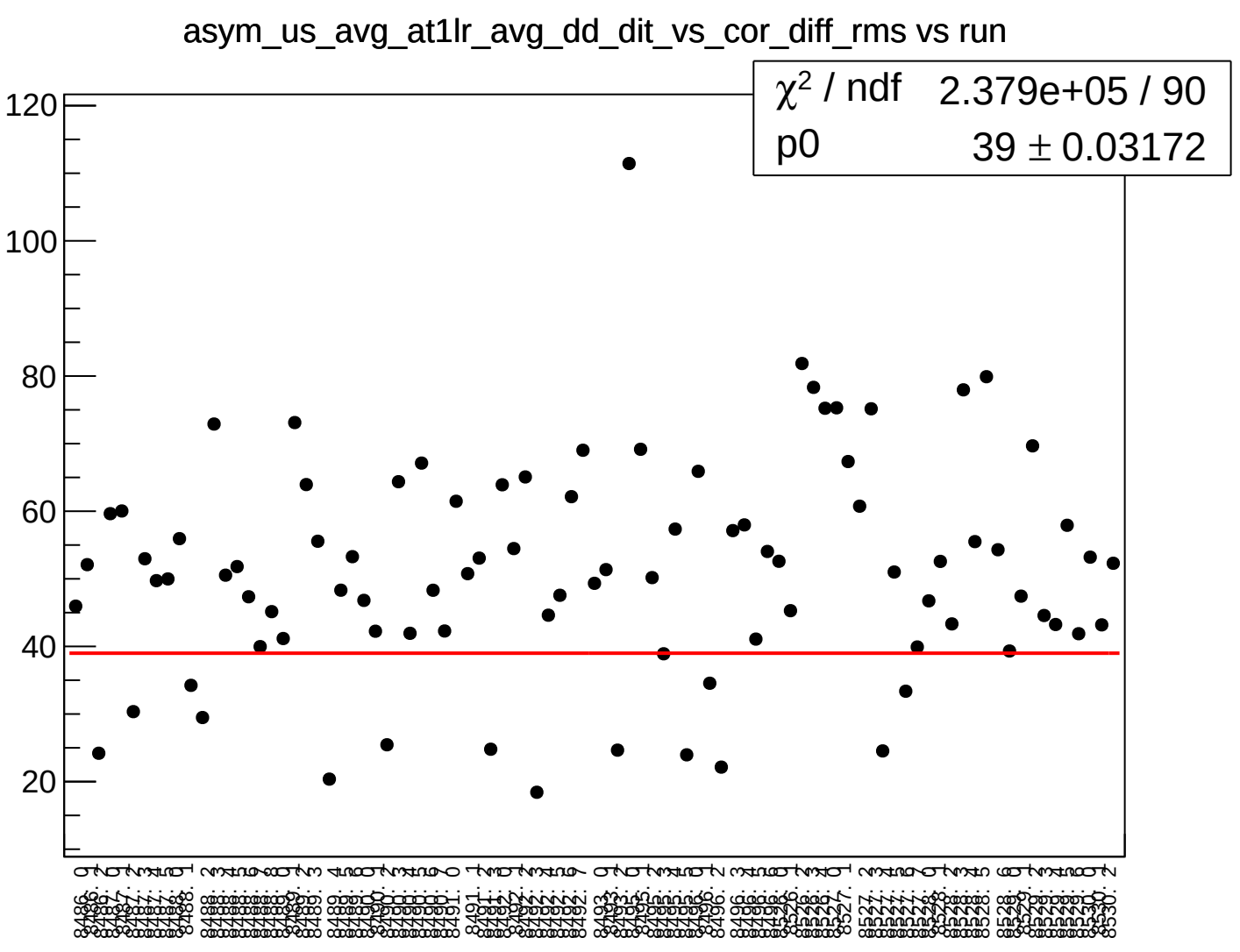

pull1D
Entries 91
Mean −0.02024
Std Dev 1.011

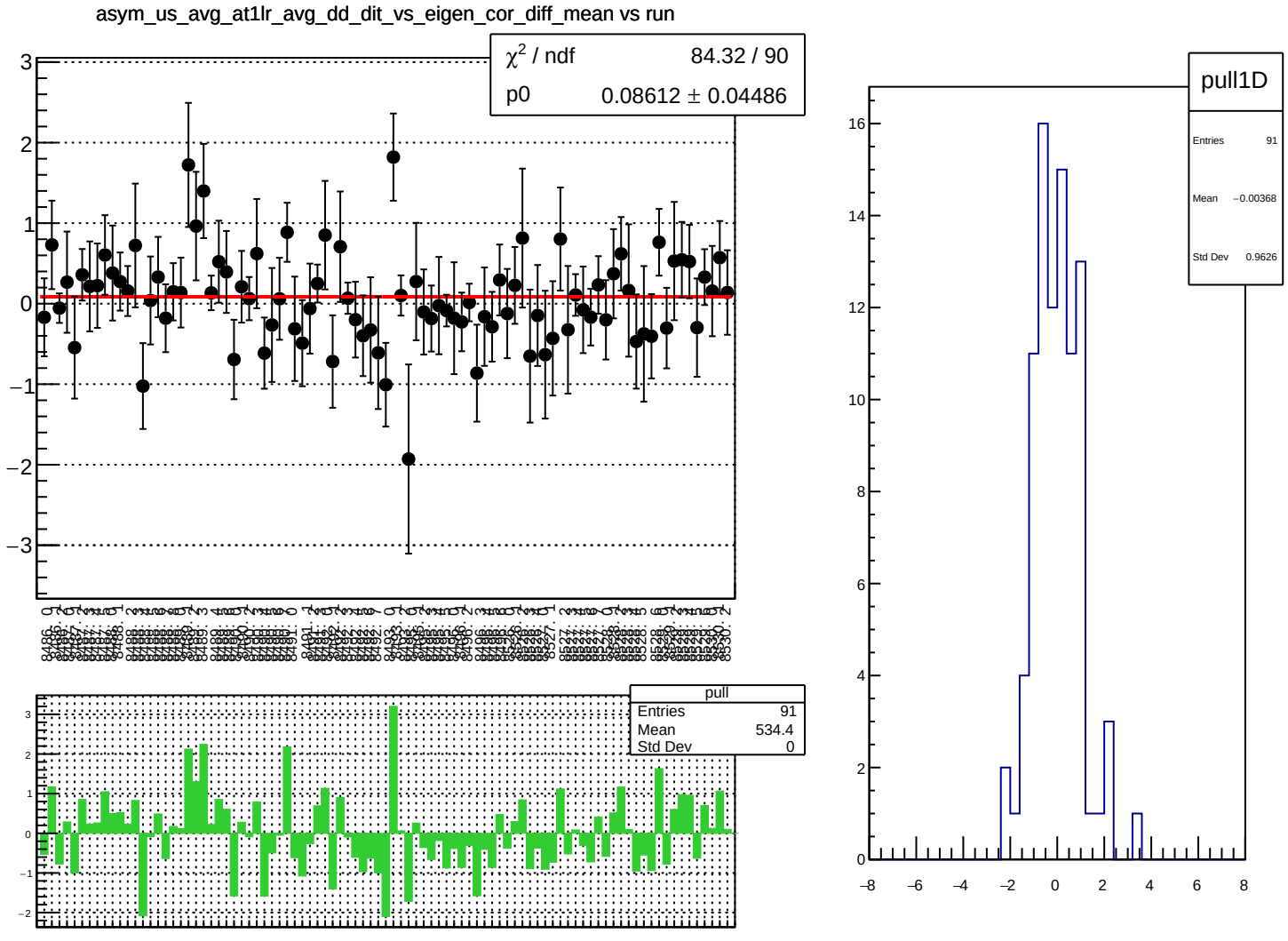

asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 90.59 / 90
p0 1756 ± 1.328
1810
1800
1790
1780
1770
1760
1750
1740
1730
1720

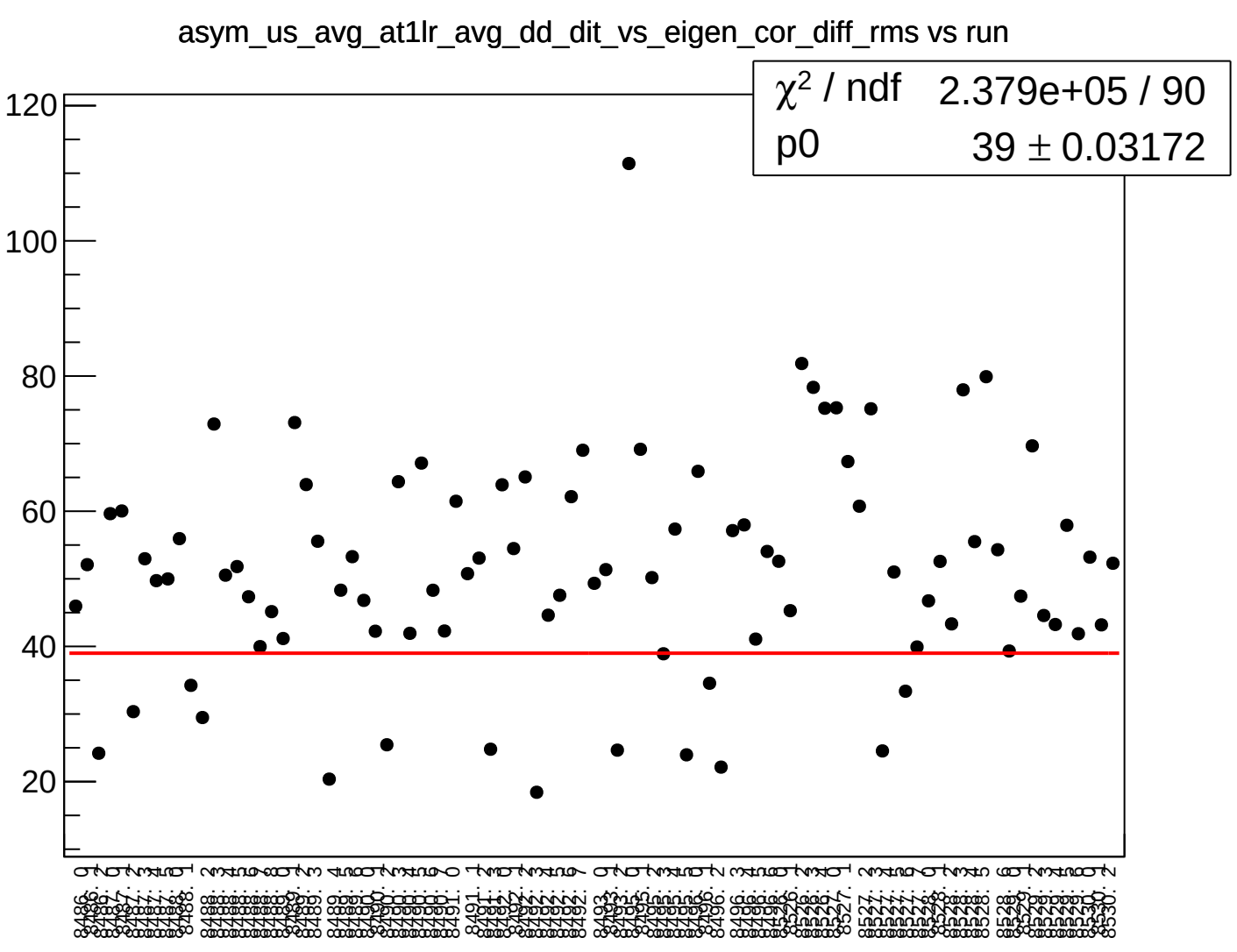

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 70.36 / 90
p0 2.016e−14 ± 2.538e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
pull
Entries 91
Mean 16.8
Std Dev 31.44
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.04471
Std Dev 0.8782
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

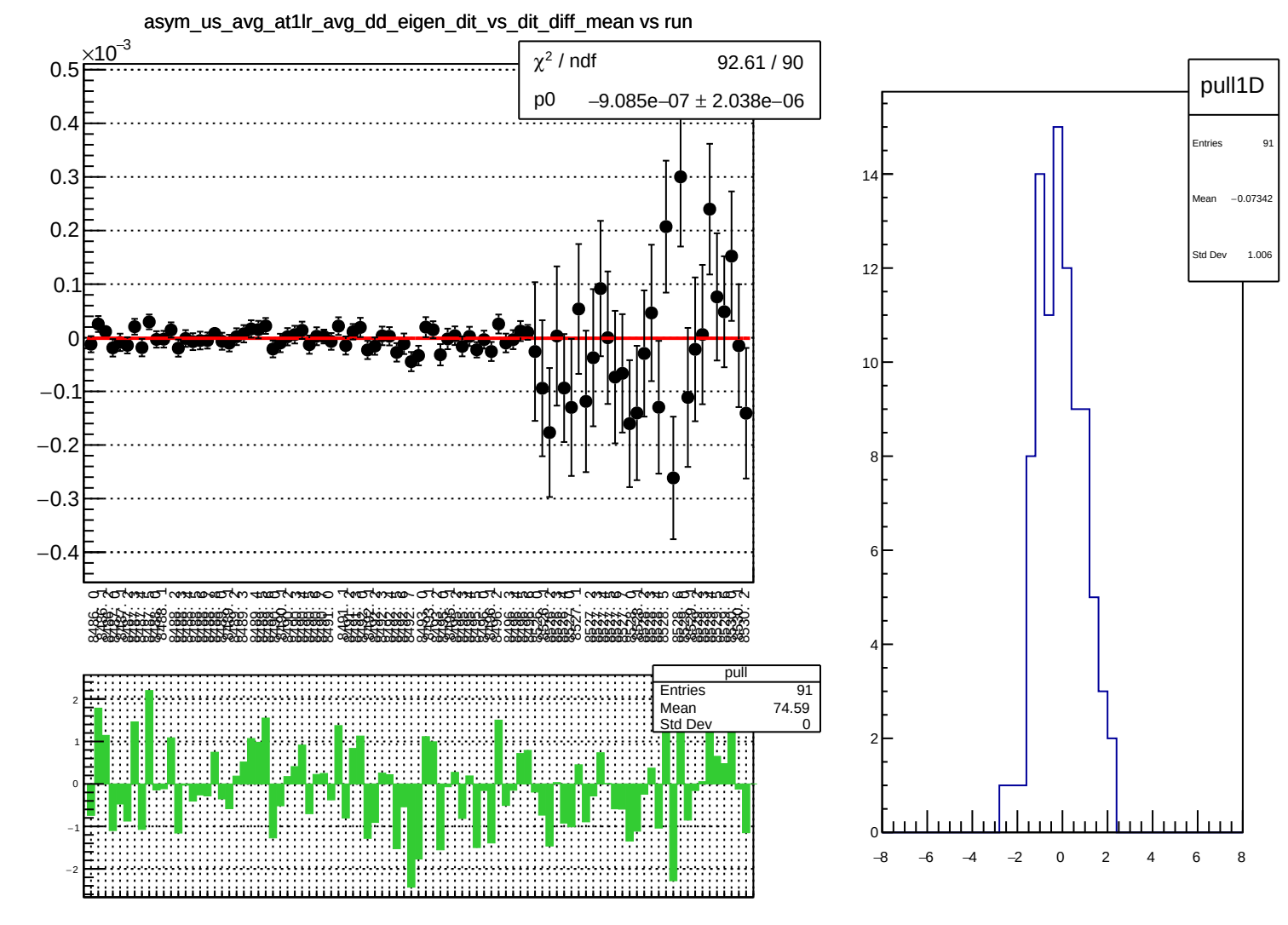

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.295e+06 / 90
p0 1.209e−11 ± 1.795e−14
1.2
1
0.8
0.6
0.4
0.2
0

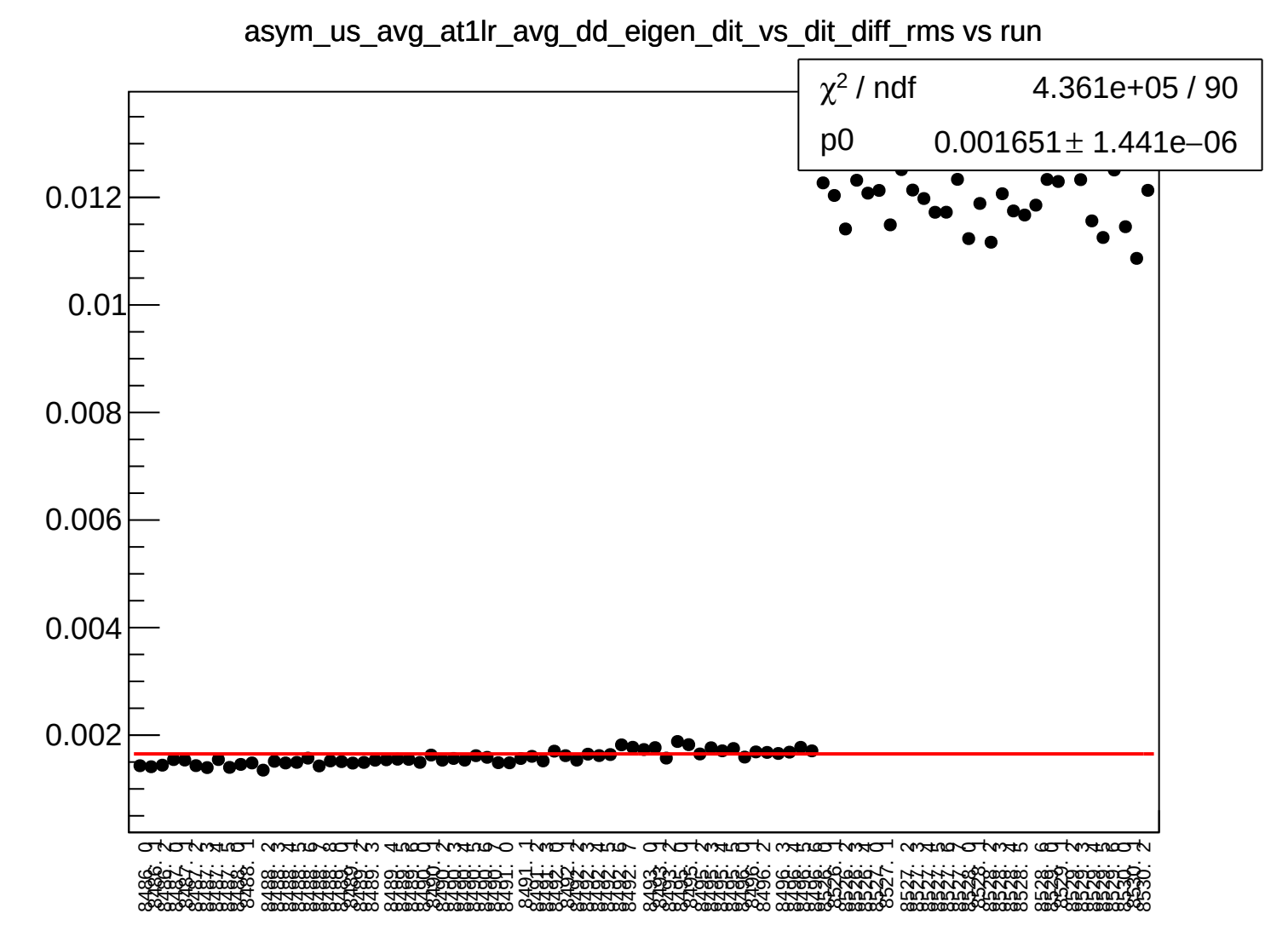

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 84.32 / 90
p0 0.08612 ± 0.04486
pull
Entries 91
Mean 534.4
Std Dev 0
pull1D
Entries 91
Mean −0.00368
Std Dev 0.9626

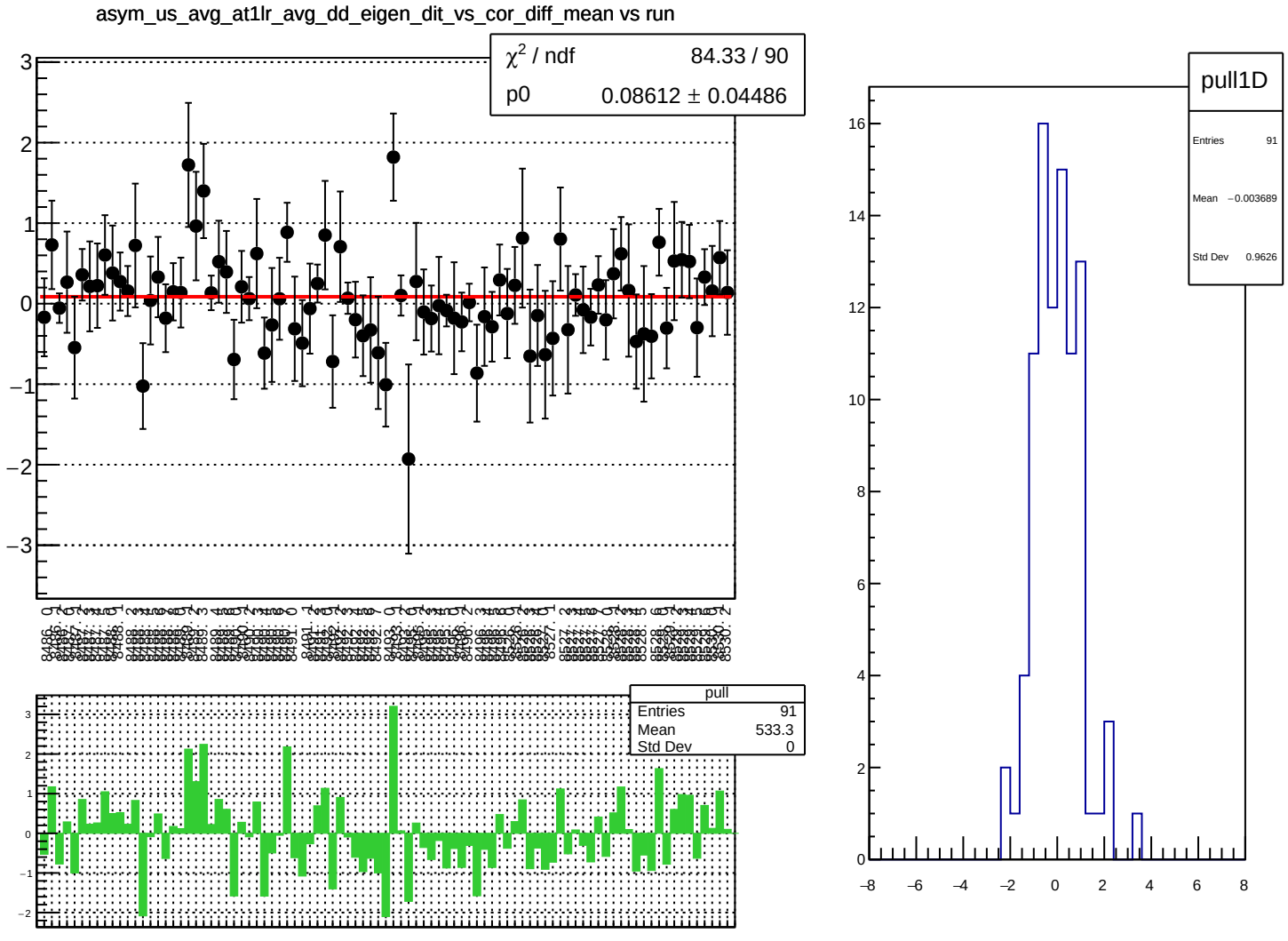

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.379e+05 / 90
p0 39 ± 0.03172
120
100
80
60
40
20

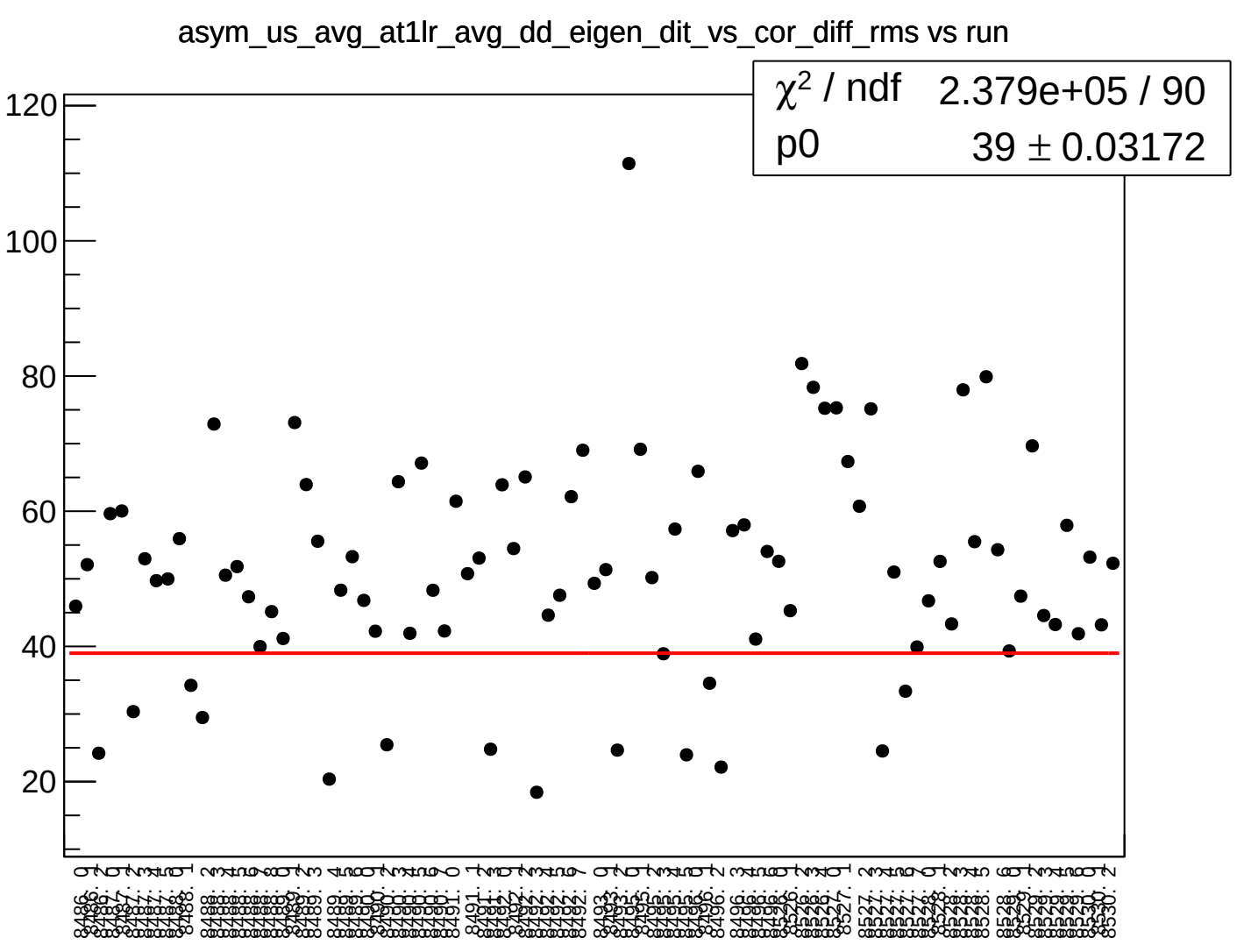

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.32 / 90
p0 0.08612 ± 0.04486
pull
Entries 91
Mean 534.4
Std Dev 0
pull1D
Entries 91
Mean −0.00368
Std Dev 0.9626

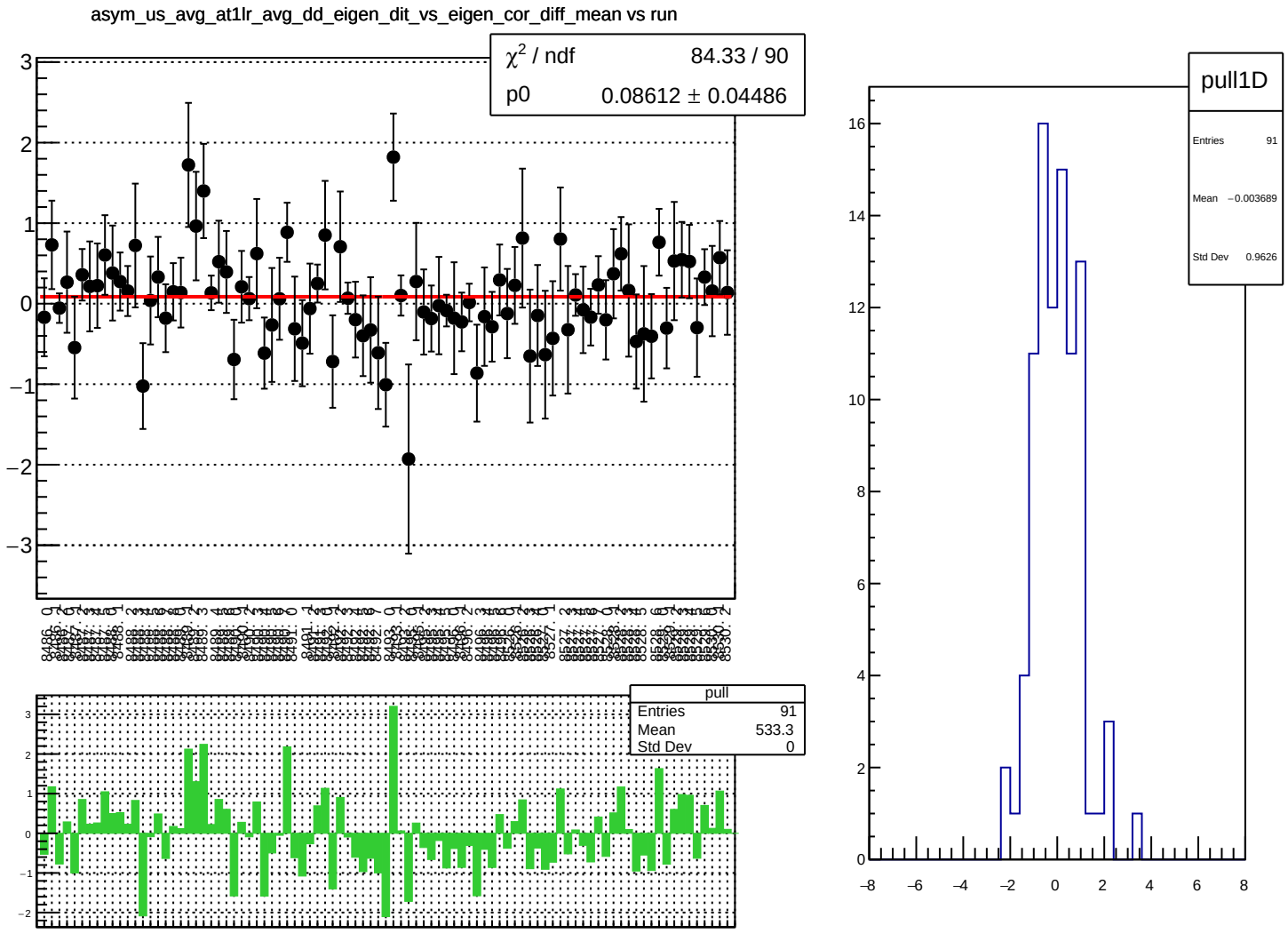

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.379e+05 / 90
p0 39 ± 0.03172
120
100
80
60
40
20

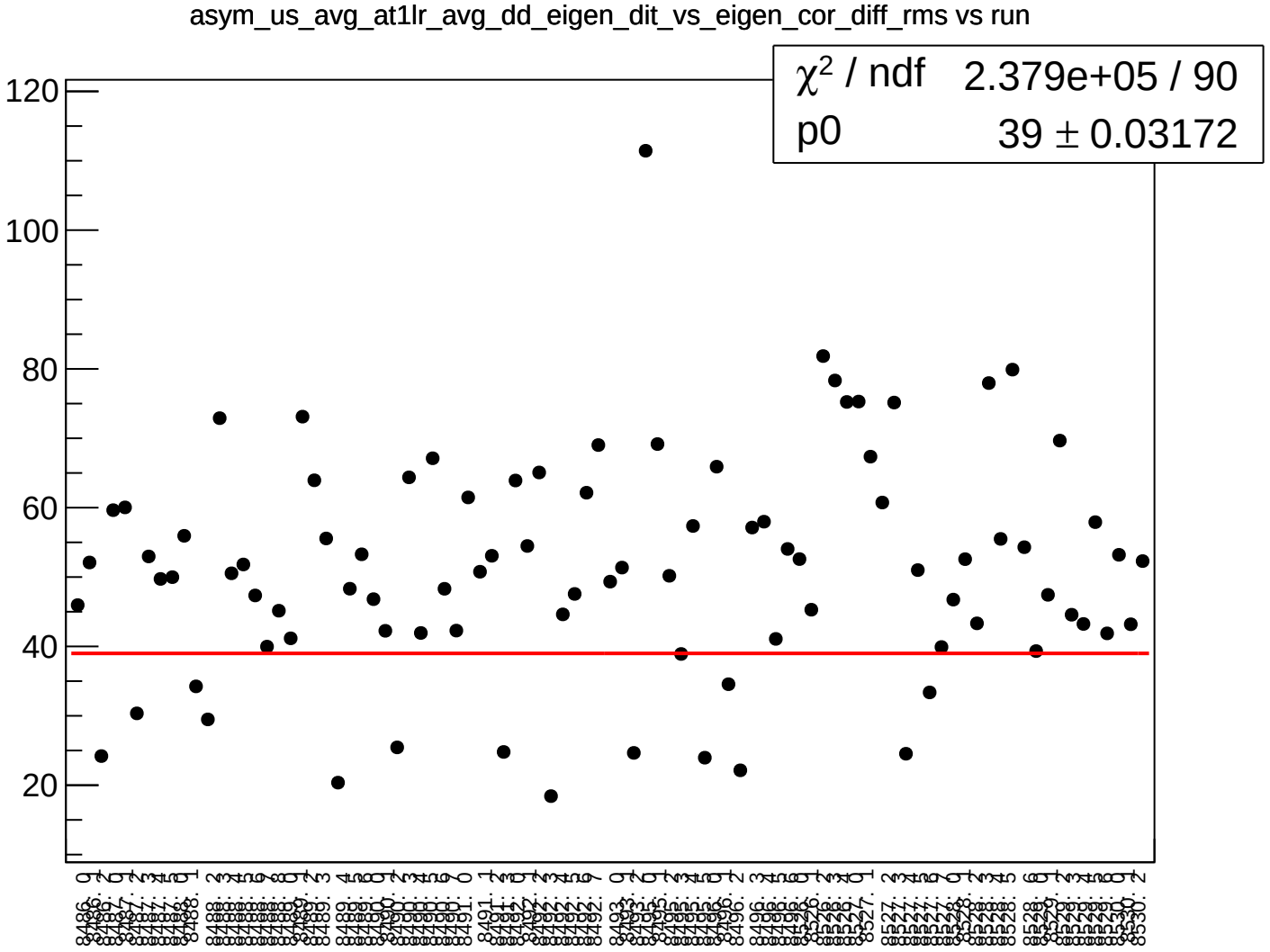

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 92.61 / 90
p0 −9.085e−07 ± 2.038e−06
pull
Entries 91
Mean 74.59
Std Dev 0
pull1D
Entries 91
Mean −0.07342
Std Dev 1.006

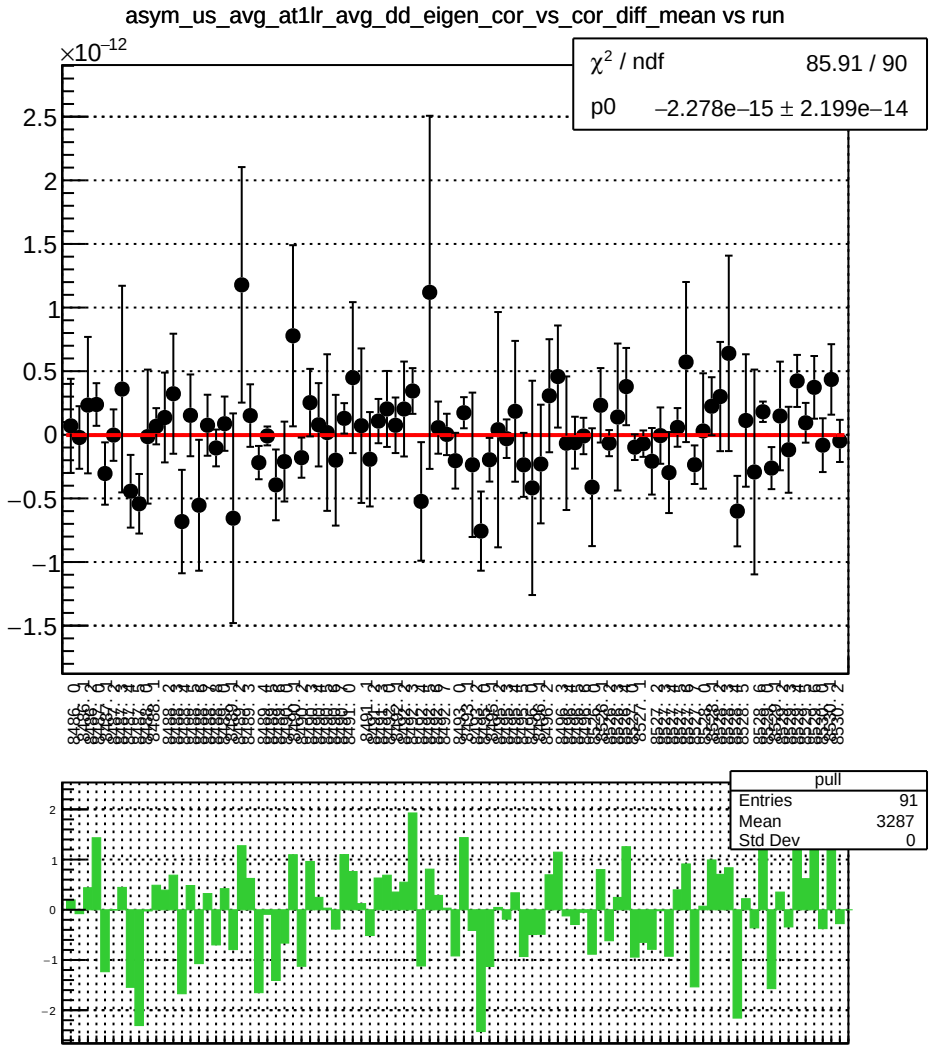

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.361e+05 / 90
p0 0.001651 ± 1.441e−06
0.012
0.01
0.008
0.006
0.004
0.002

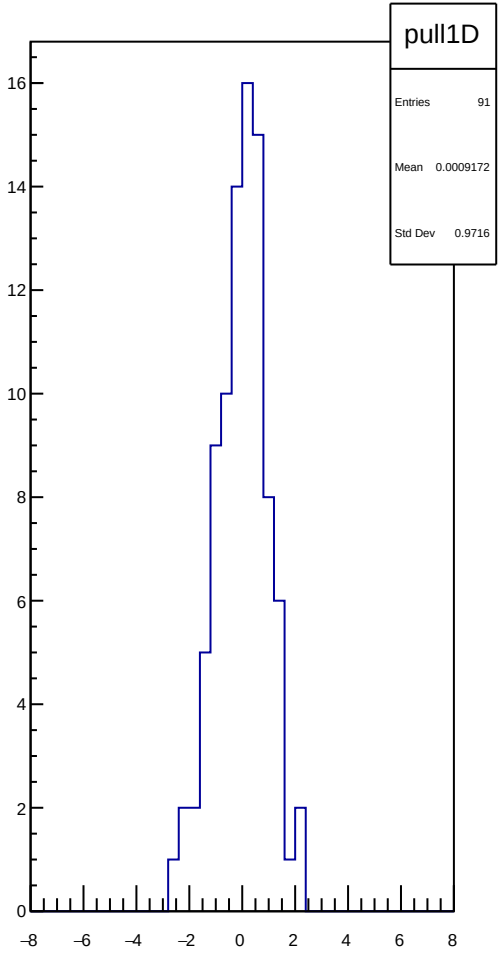

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.33 / 90
p0 0.08612 ± 0.04486
pull
Entries 91
Mean 533.3
Std Dev 0
pull1D
Entries 91
Mean −0.003689
Std Dev 0.9626

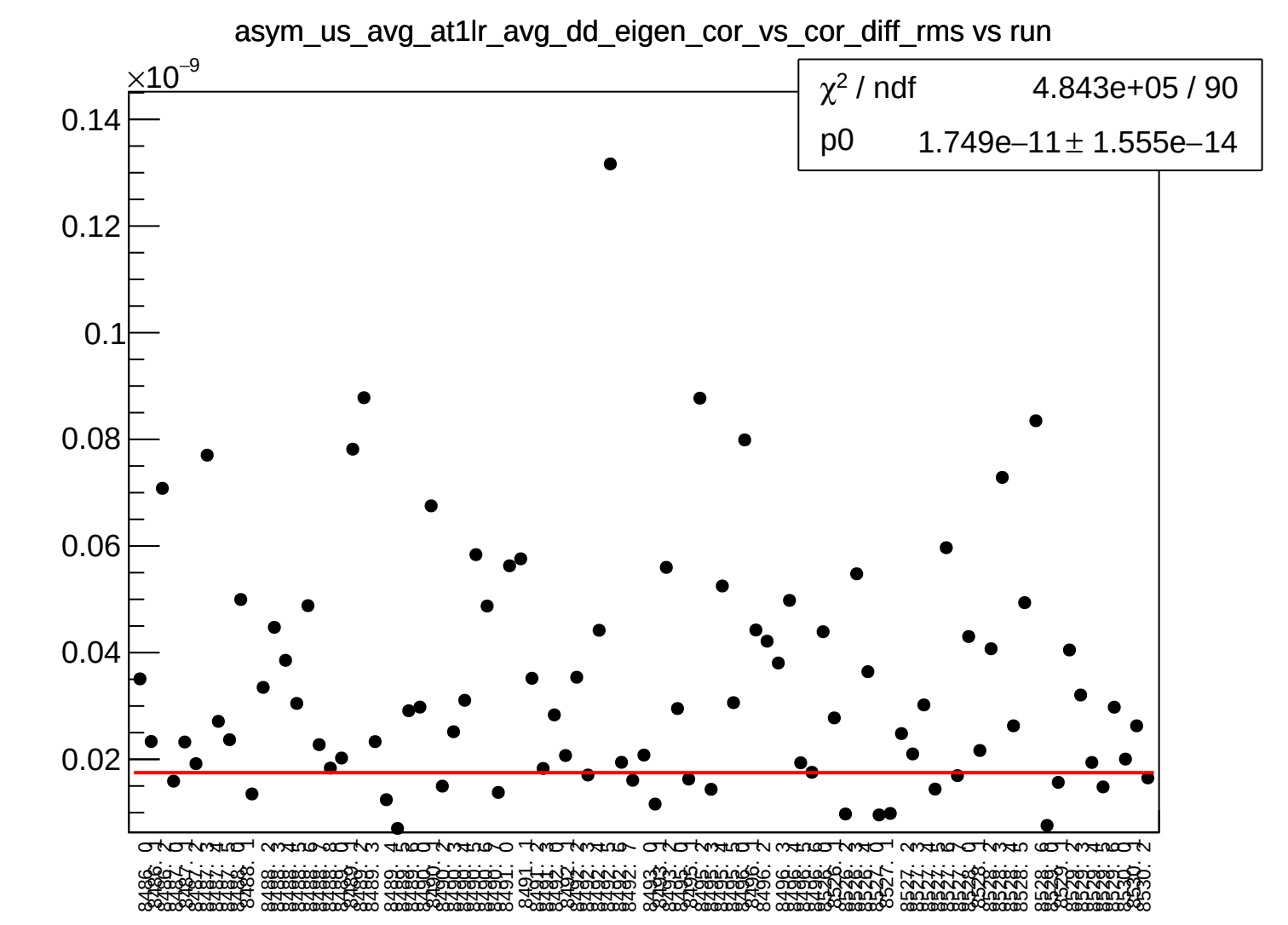

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.379e+05 / 90
p0 39 ± 0.03172
120
100
80
60
40
20

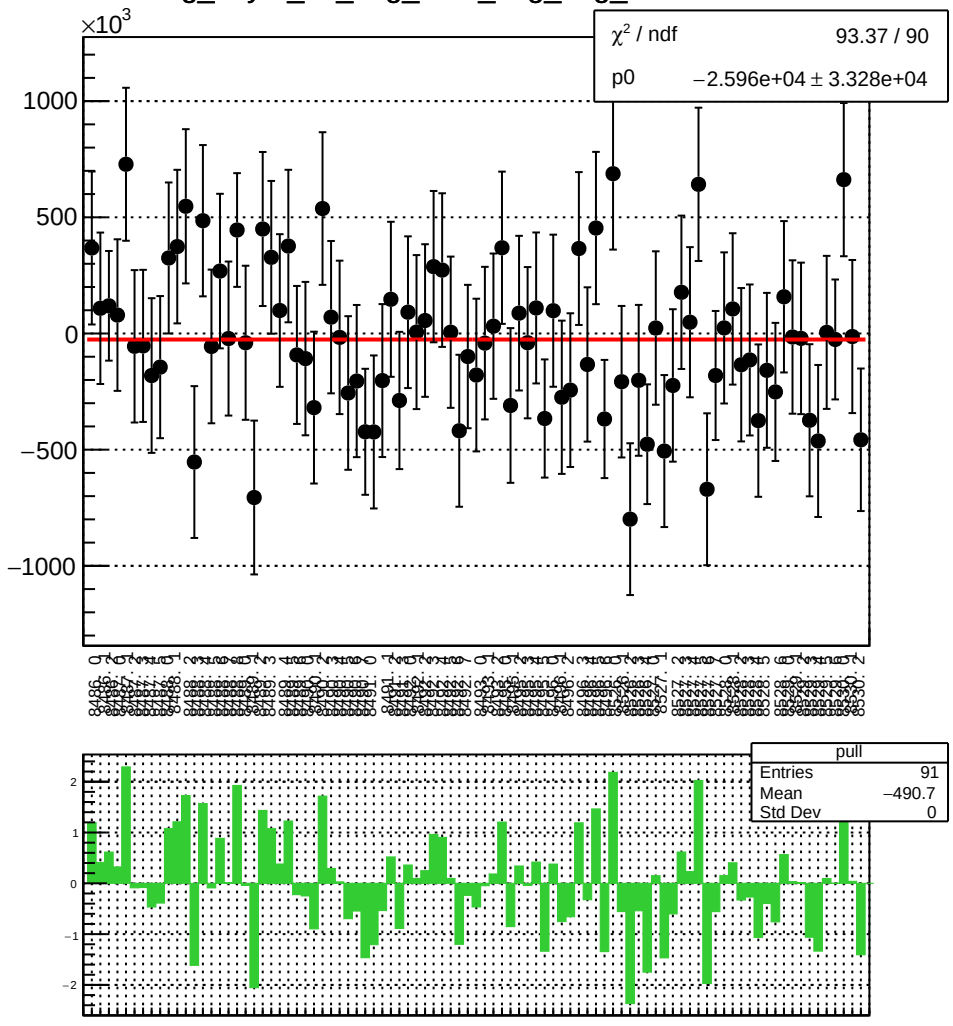

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.33 / 90
p0 0.08612 ± 0.04486
pull
Entries 91
Mean 533.3
Std Dev 0
pull1D
Entries 91
Mean −0.003689
Std Dev 0.9626

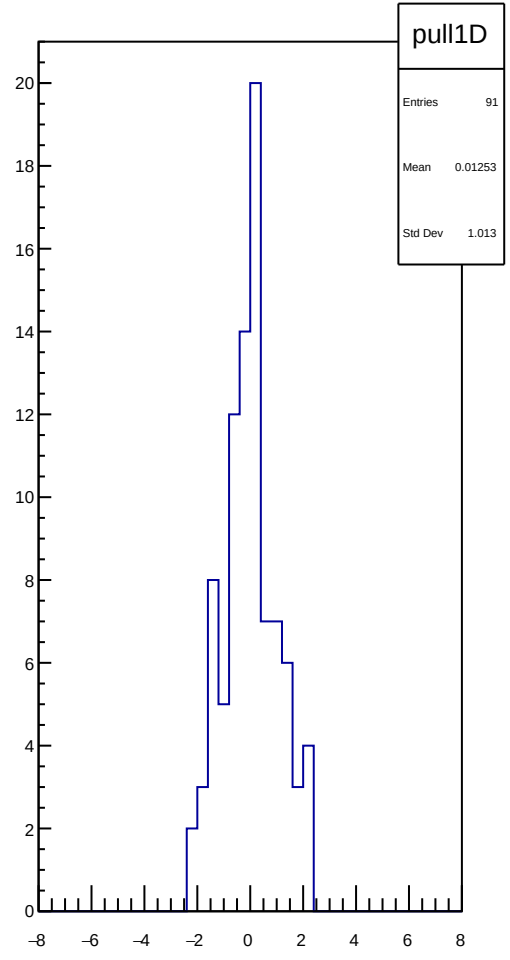

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.379e+05 / 90
p0 39 ± 0.03172
120
100
80
60
40
20

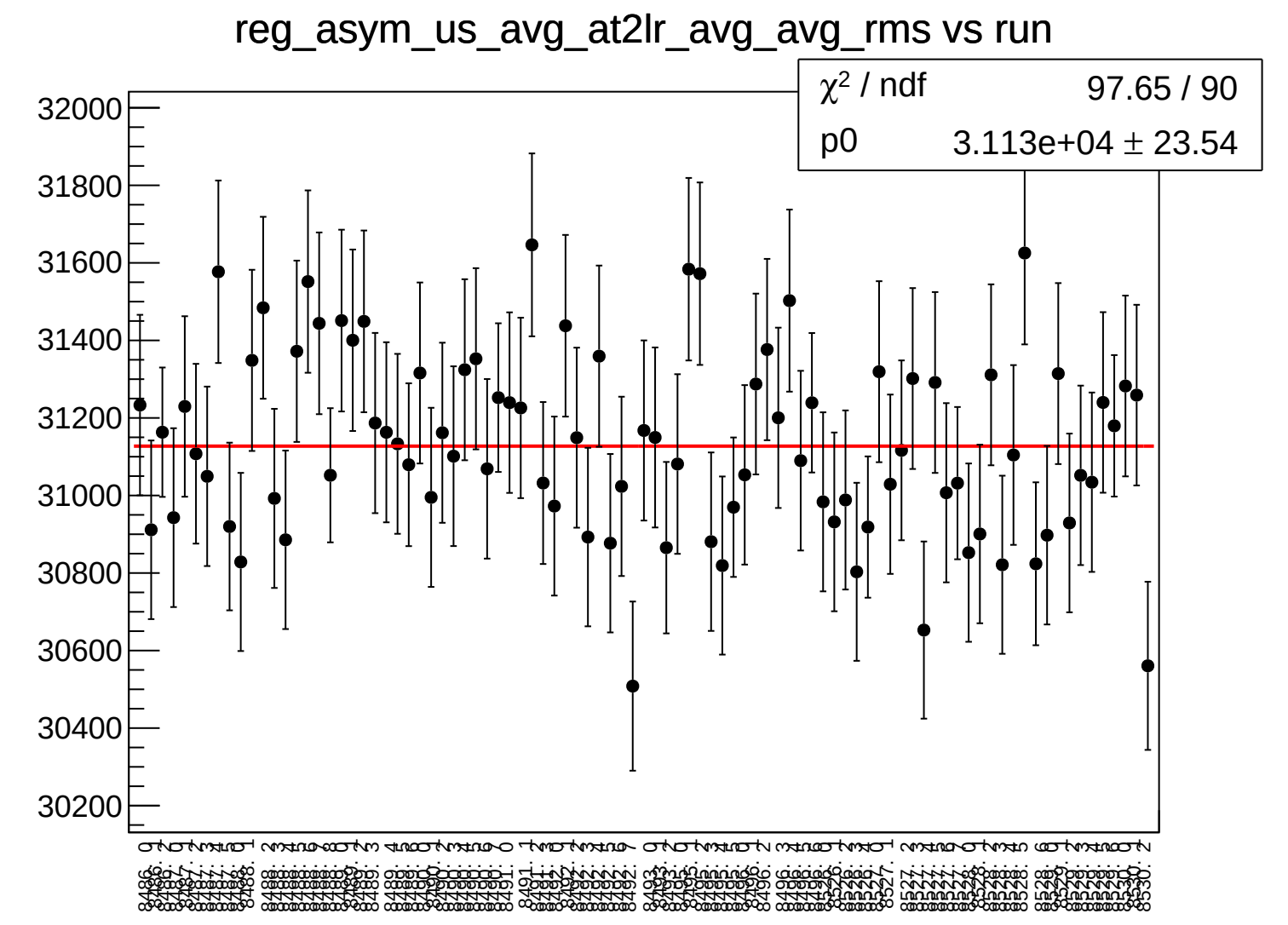

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.91 / 90
p0 −2.278e−15 ± 2.199e−14
pull
Entries 91
Mean 3287
Std Dev 0

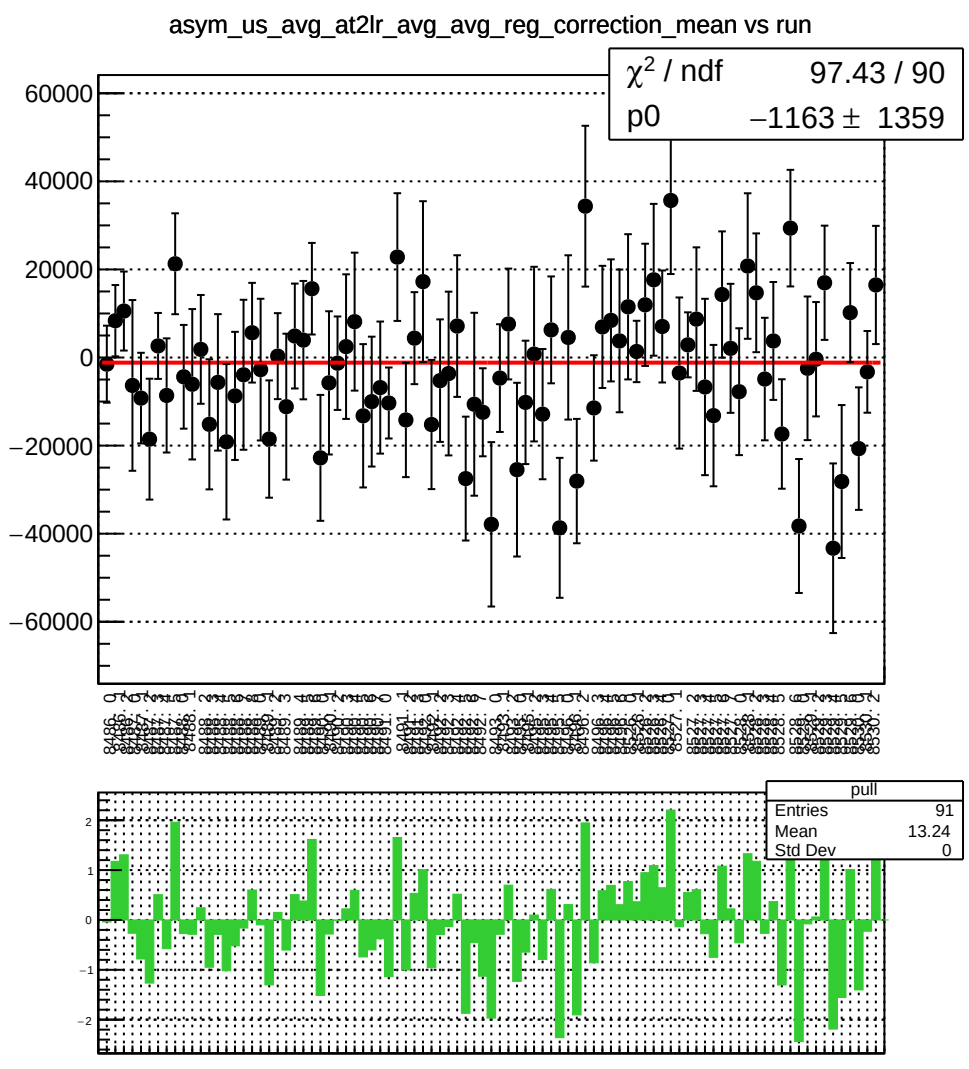

pull1D
Entries 91
Mean 0.0009172
Std Dev 0.9716

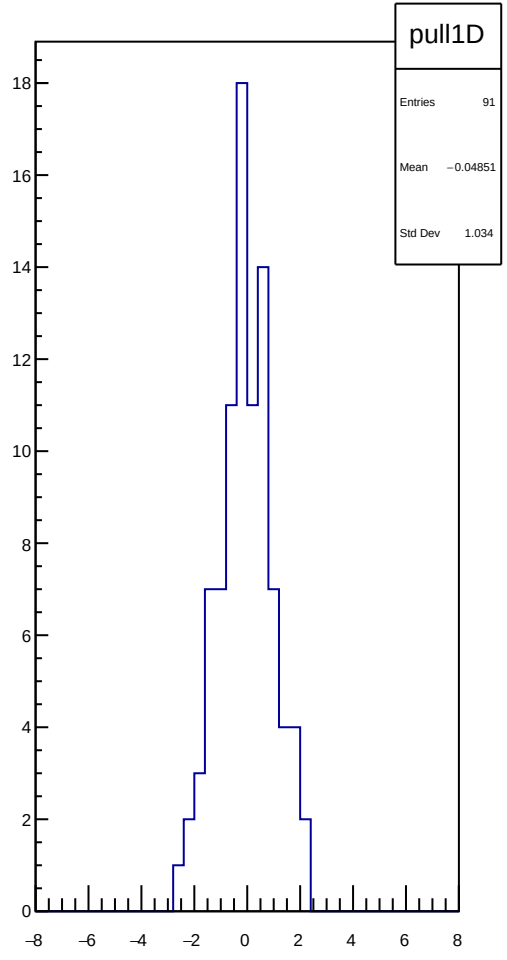

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.843e+05 / 90
p0 1.749e−11 ± 1.555e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

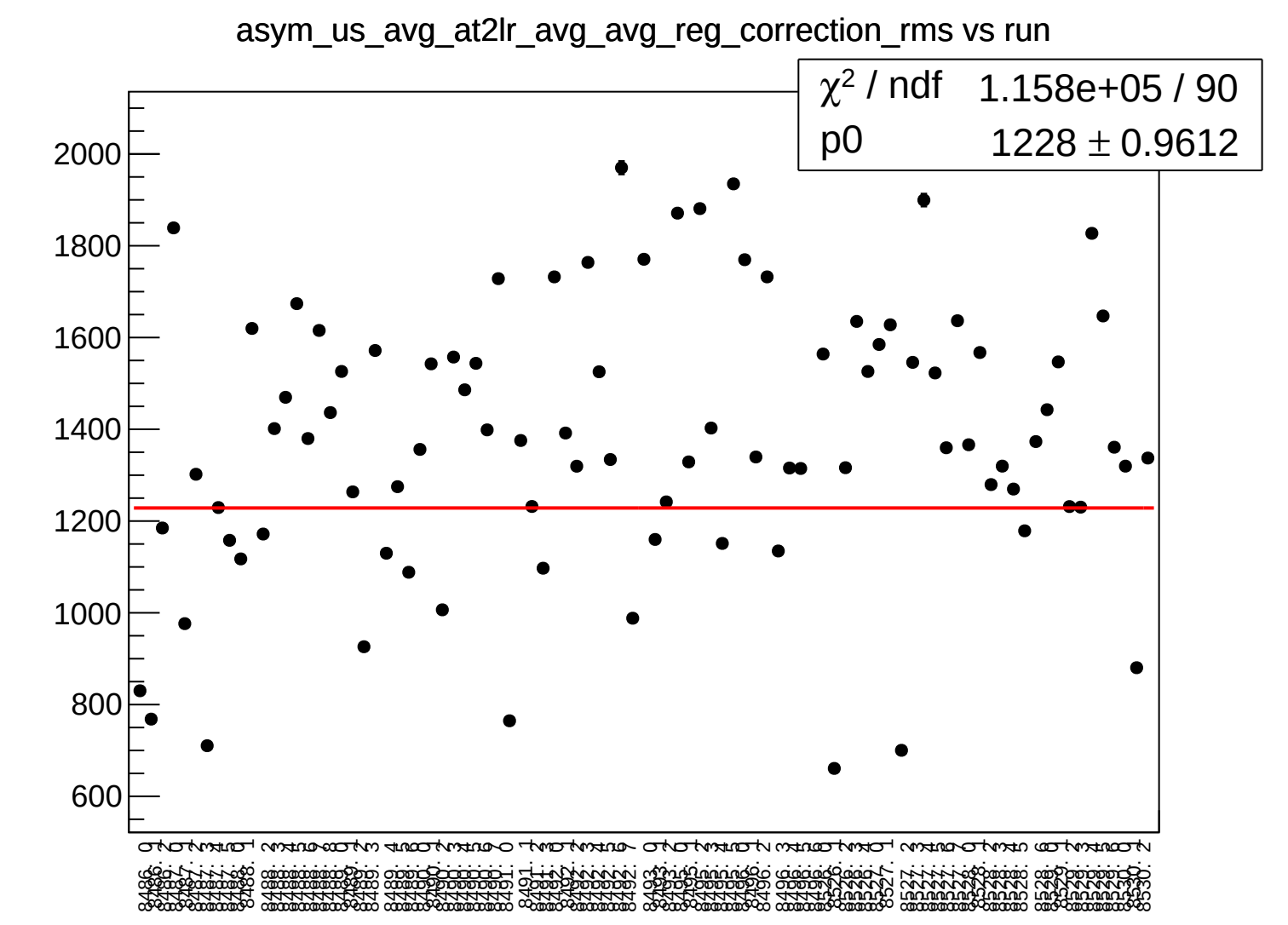

reg_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 93.37 / 90
p0 −2.596e+04 ± 3.328e+04
1000
500
0
−500
−1000
pull
Entries 91
Mean −490.7
Std Dev 0
2
1
0
−1
−2

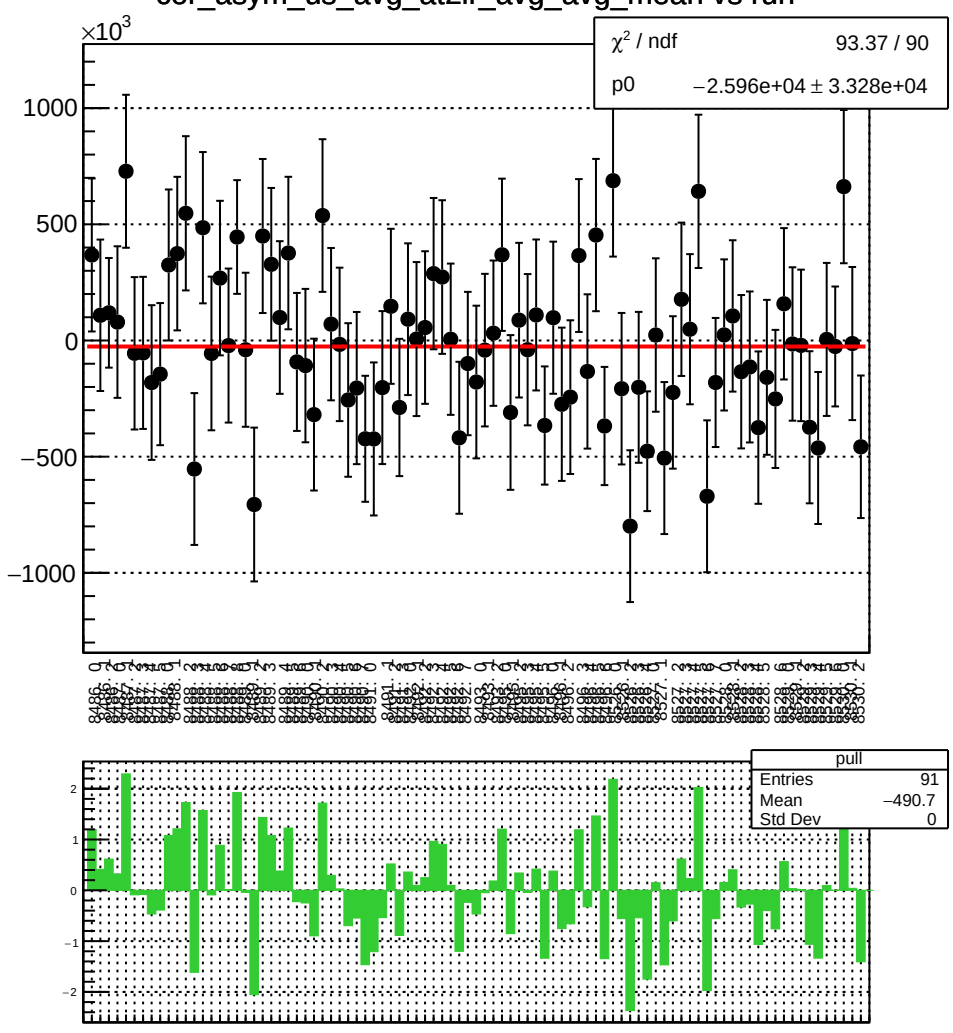

pull1D
Entries 91
Mean 0.01253
Std Dev 1.013
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

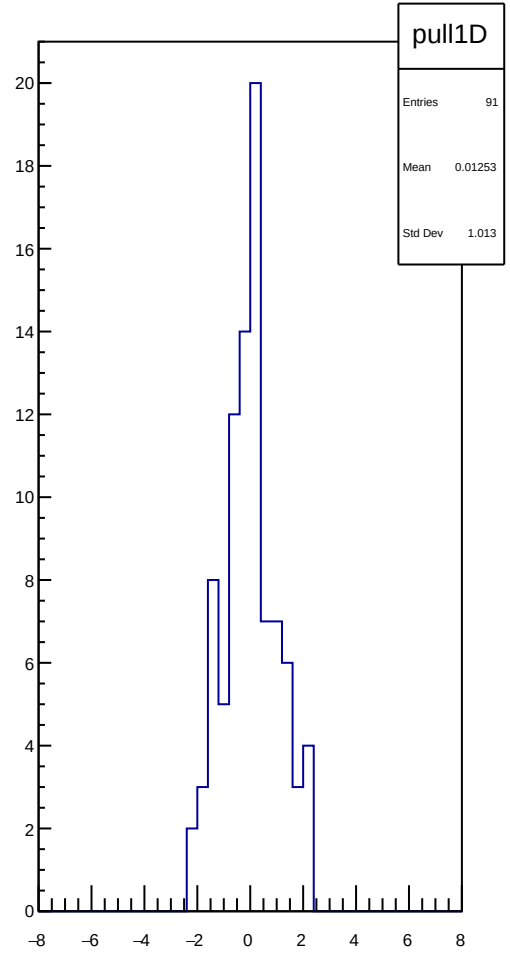

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 97.65 / 90
p0 3.113e+04 ± 23.54
32000
31800
31600
31400
31200
31000
30800
30600
30400
30200

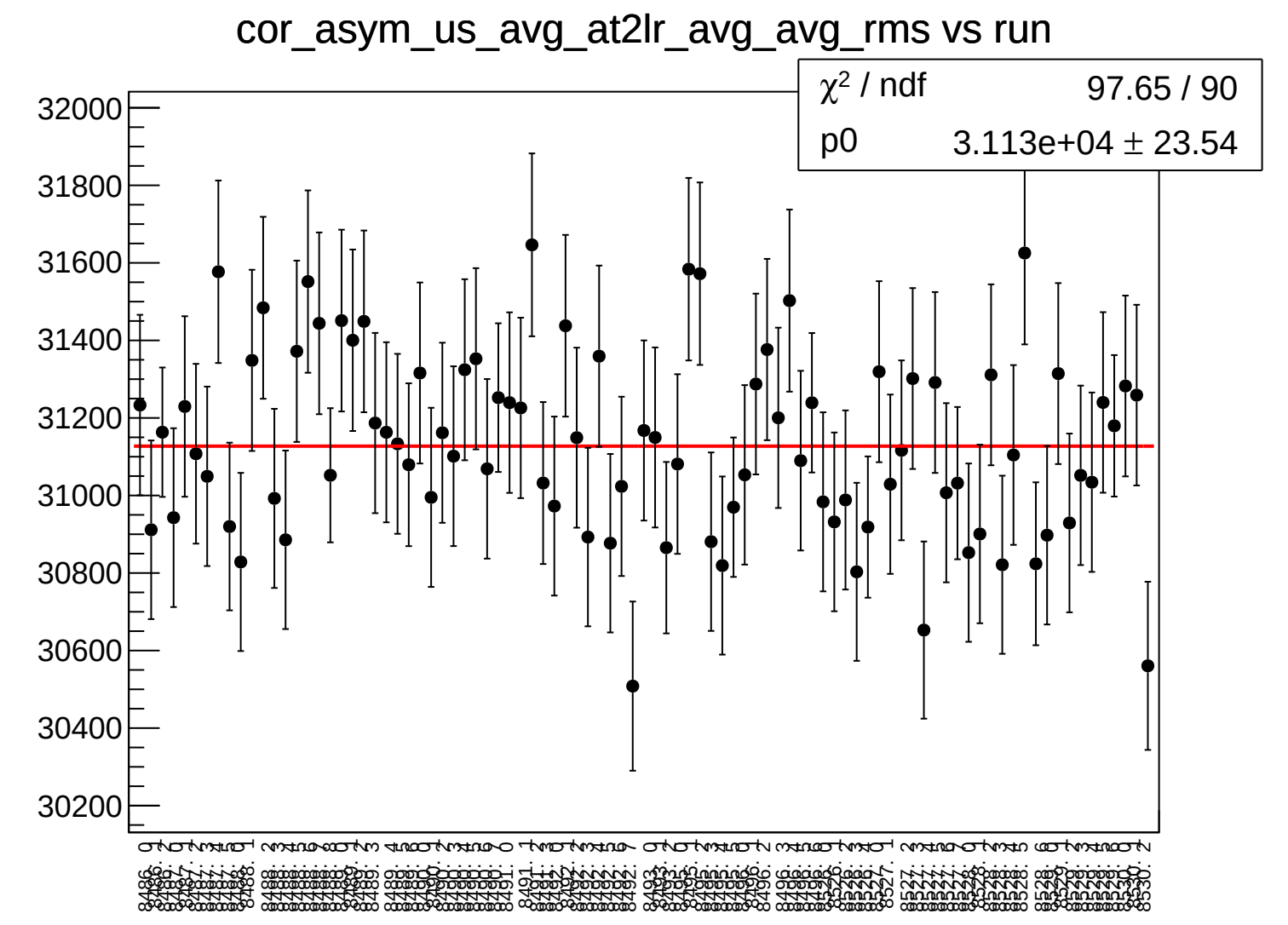

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
χ² / ndf 97.43 / 90
p0 −1163 ± 1359
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 13.24
Std Dev 0
2
1
0
−1
−2

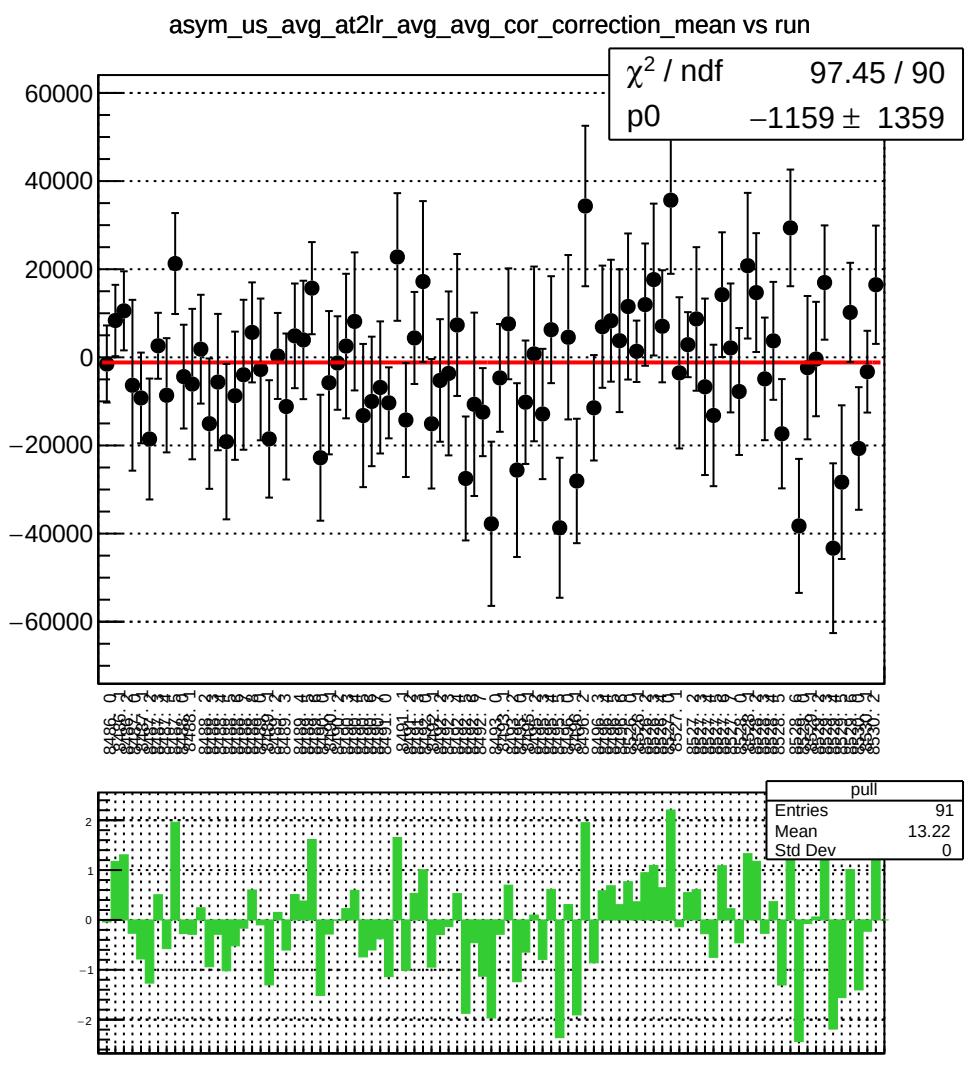

pull1D
Entries 91
Mean −0.04851
Std Dev 1.034
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

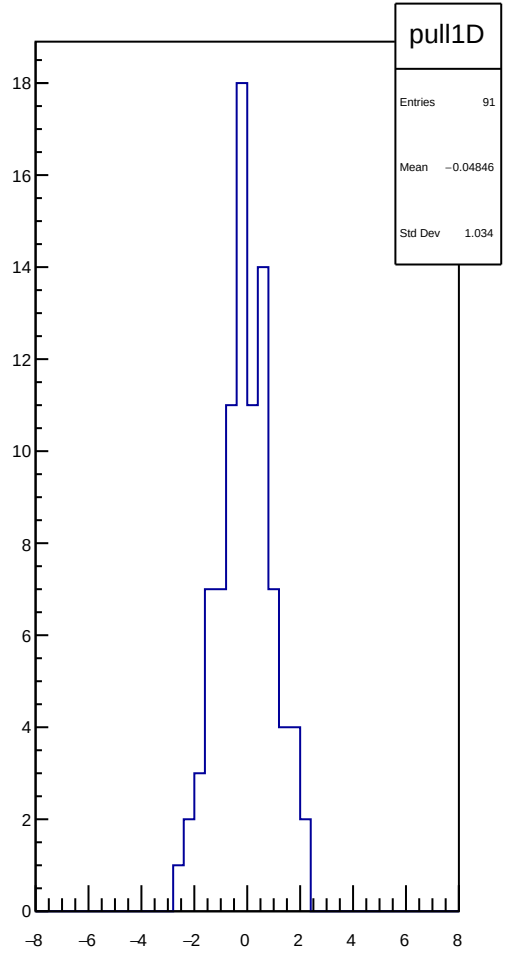

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.158e+05 / 90
p0 1228 ± 0.9612
2000
1800
1600
1400
1200
1000
800
600

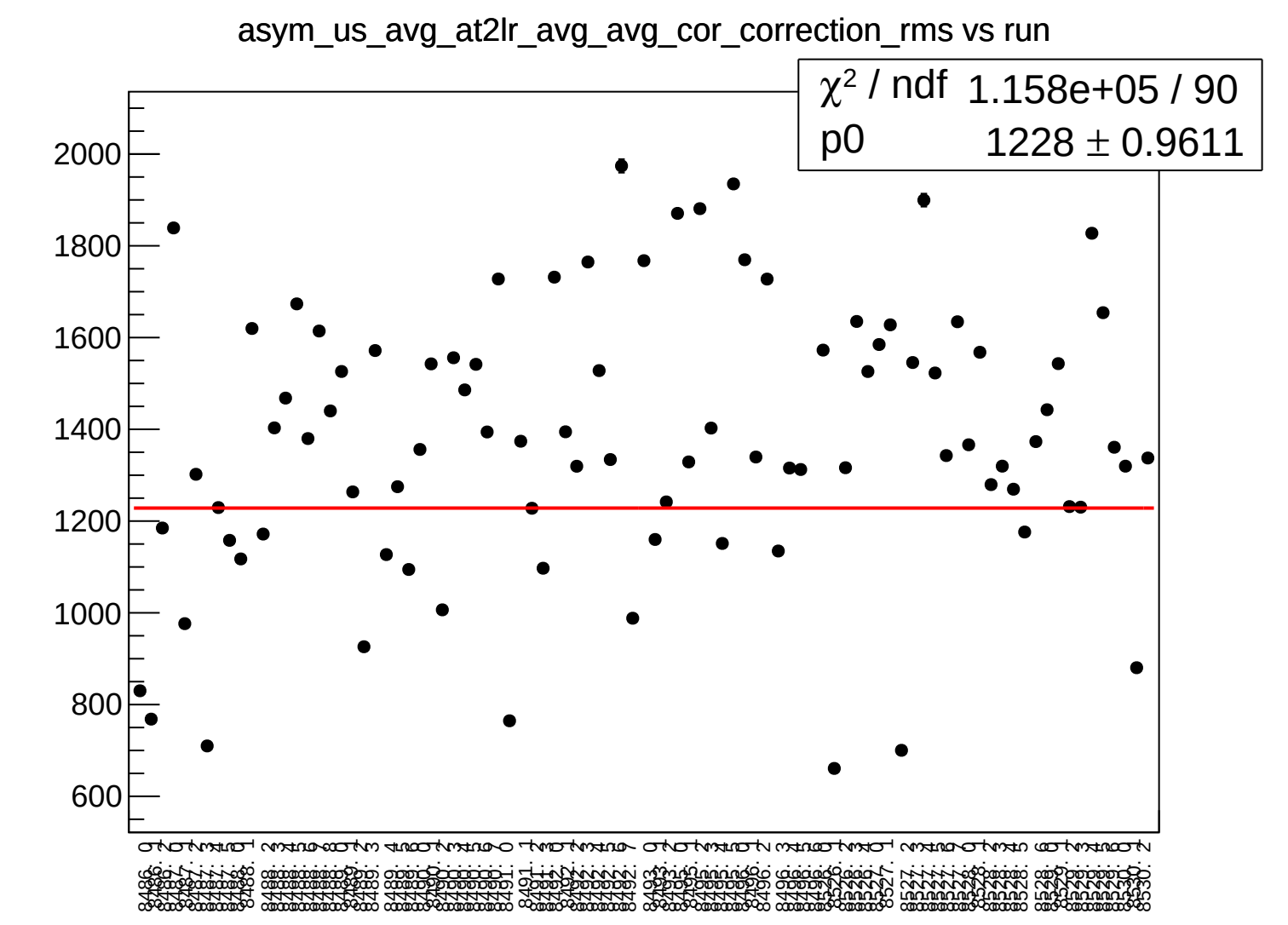

cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 93.37 / 90
p0 −2.596e+04 ± 3.328e+04
1000
500
0
−500
−1000
pull
Entries 91
Mean −490.7
Std Dev 0
2
1
0
−1
−2

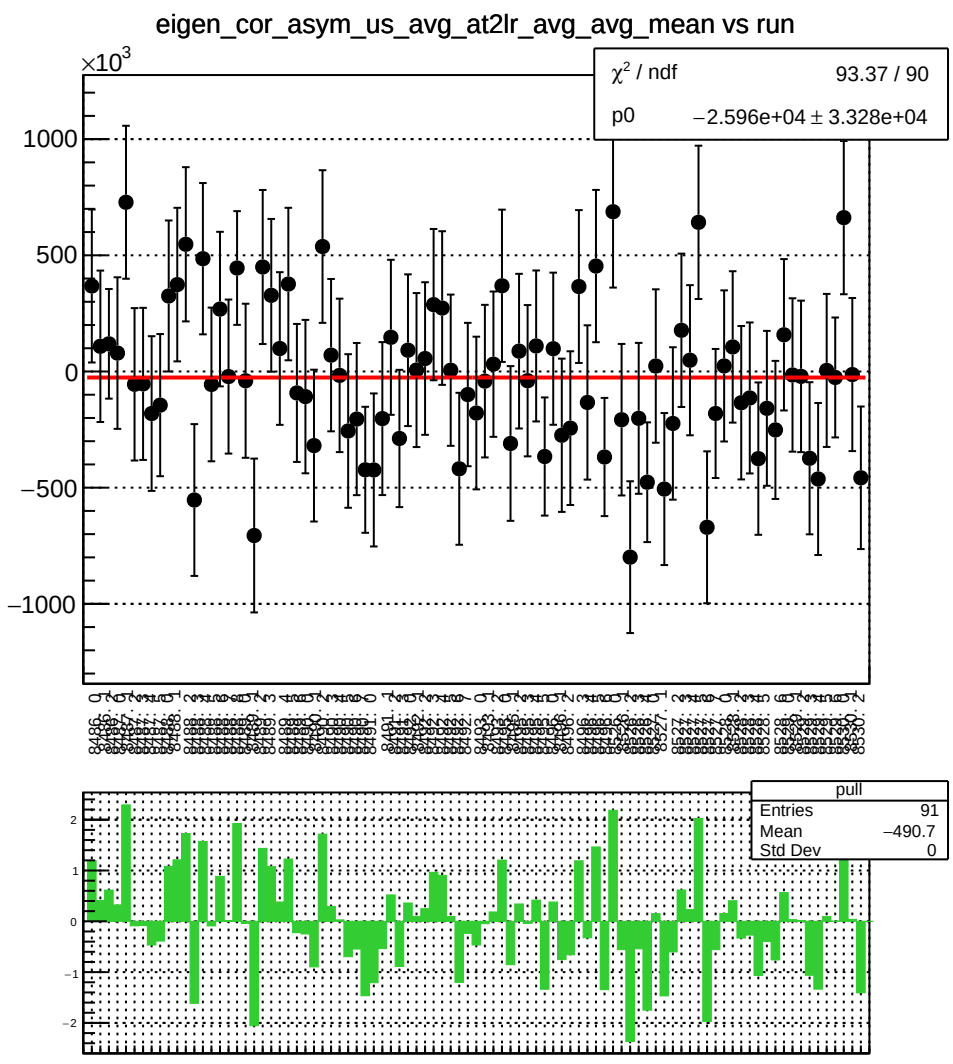

pull1D
Entries 91
Mean 0.01253
Std Dev 1.013
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

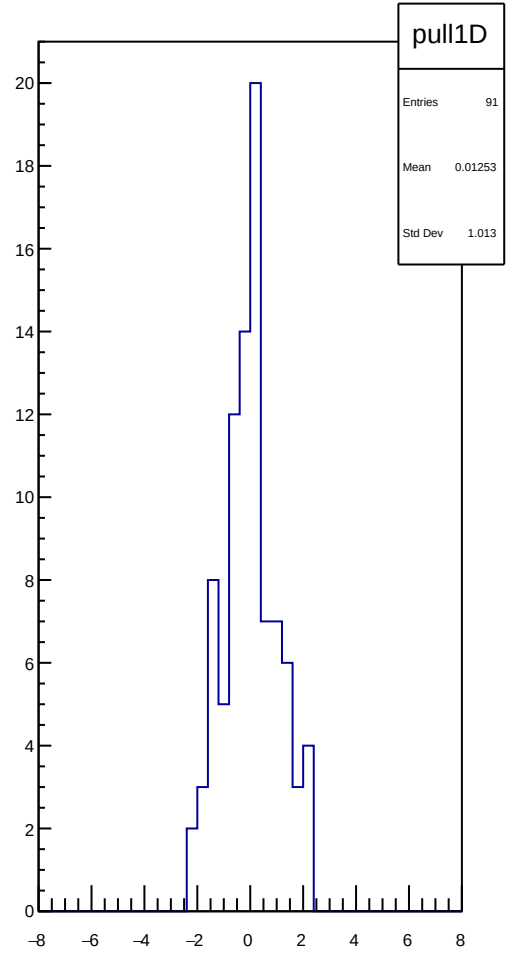

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 97.65 / 90
p0 3.113e+04 ± 23.54
32000
31800
31600
31400
31200
31000
30800
30600
30400
30200

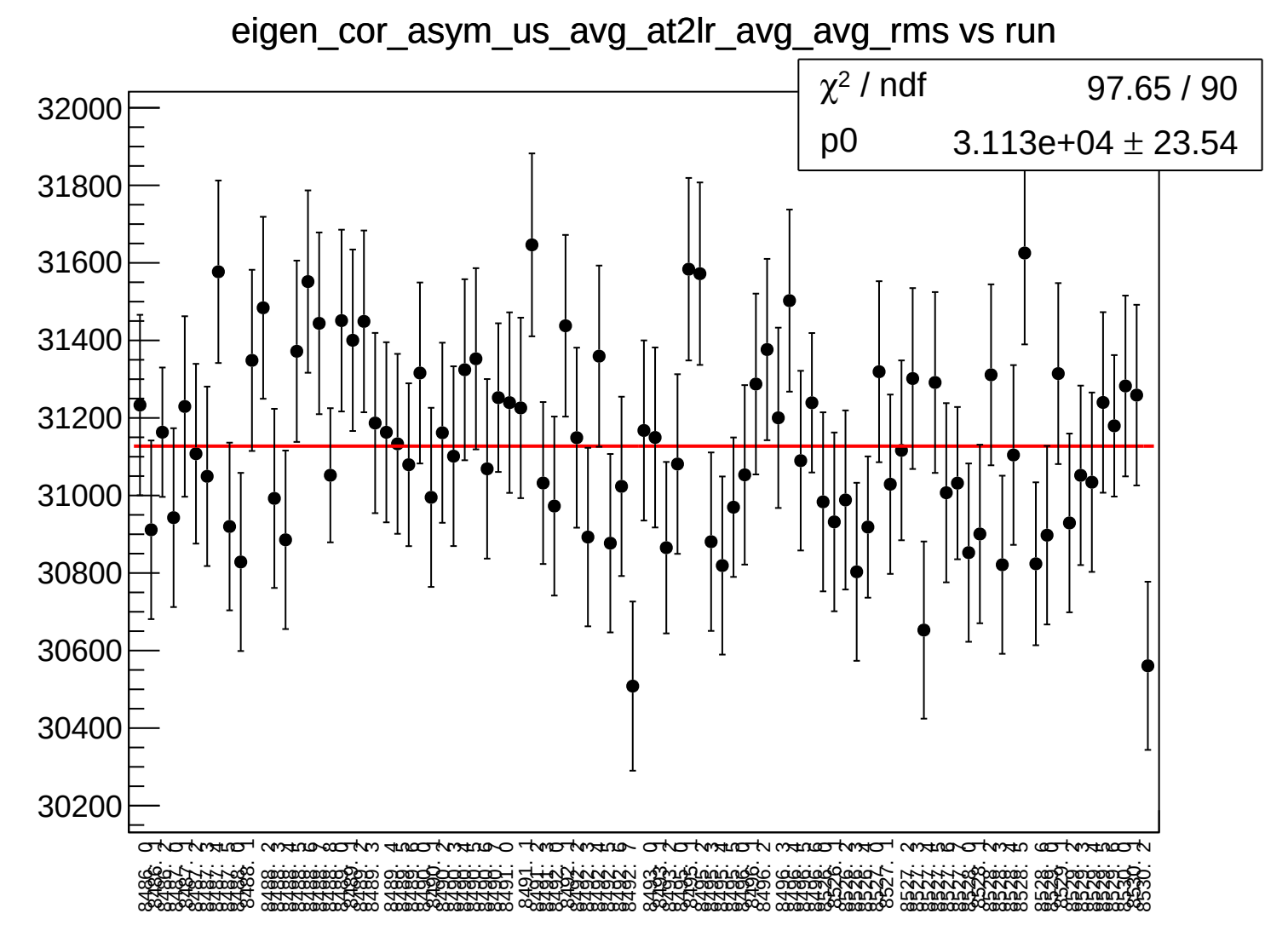

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
χ² / ndf 97.45 / 90
p0 −1159 ± 1359
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 13.22
Std Dev 0
2
1
0
−1
−2

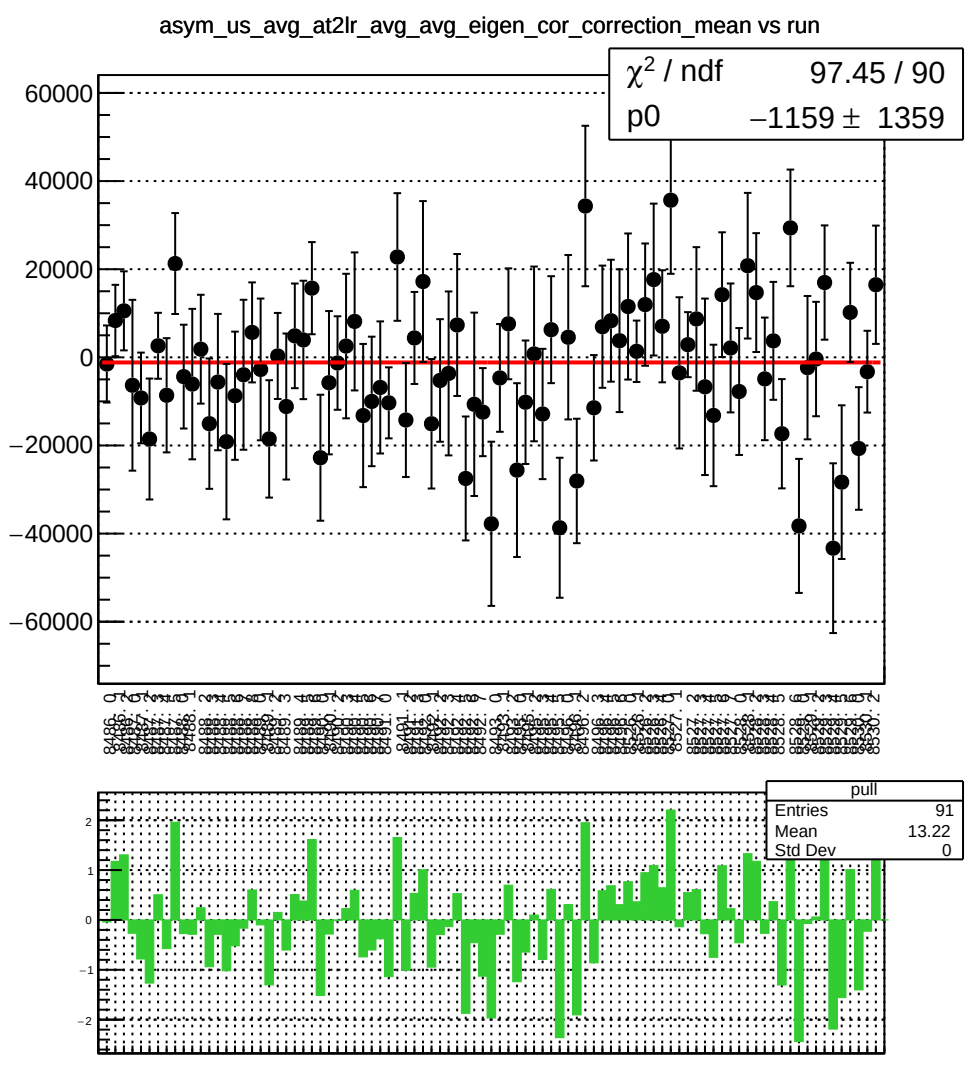

pull1D
Entries 91
Mean −0.04846
Std Dev 1.034
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

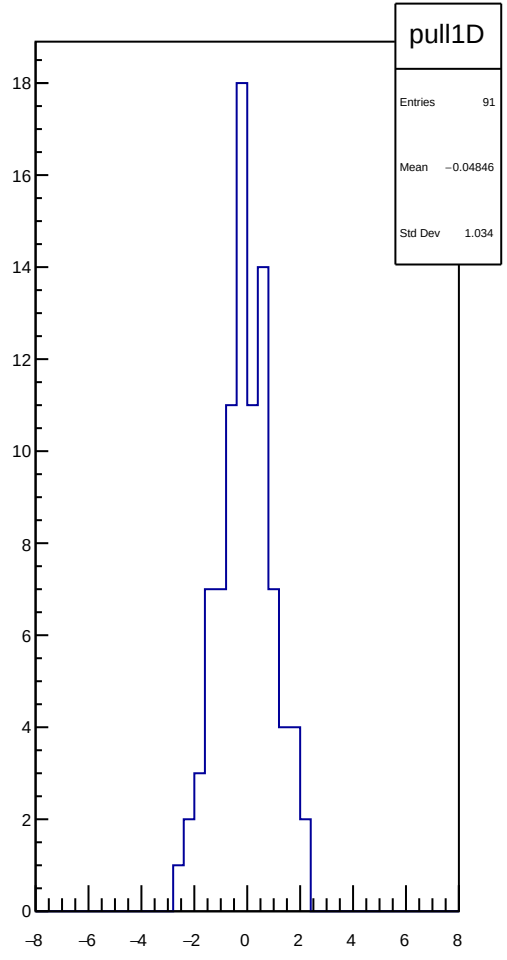

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.158e+05 / 90
p0 1228 ± 0.9611
2000
1800
1600
1400
1200
1000
800
600

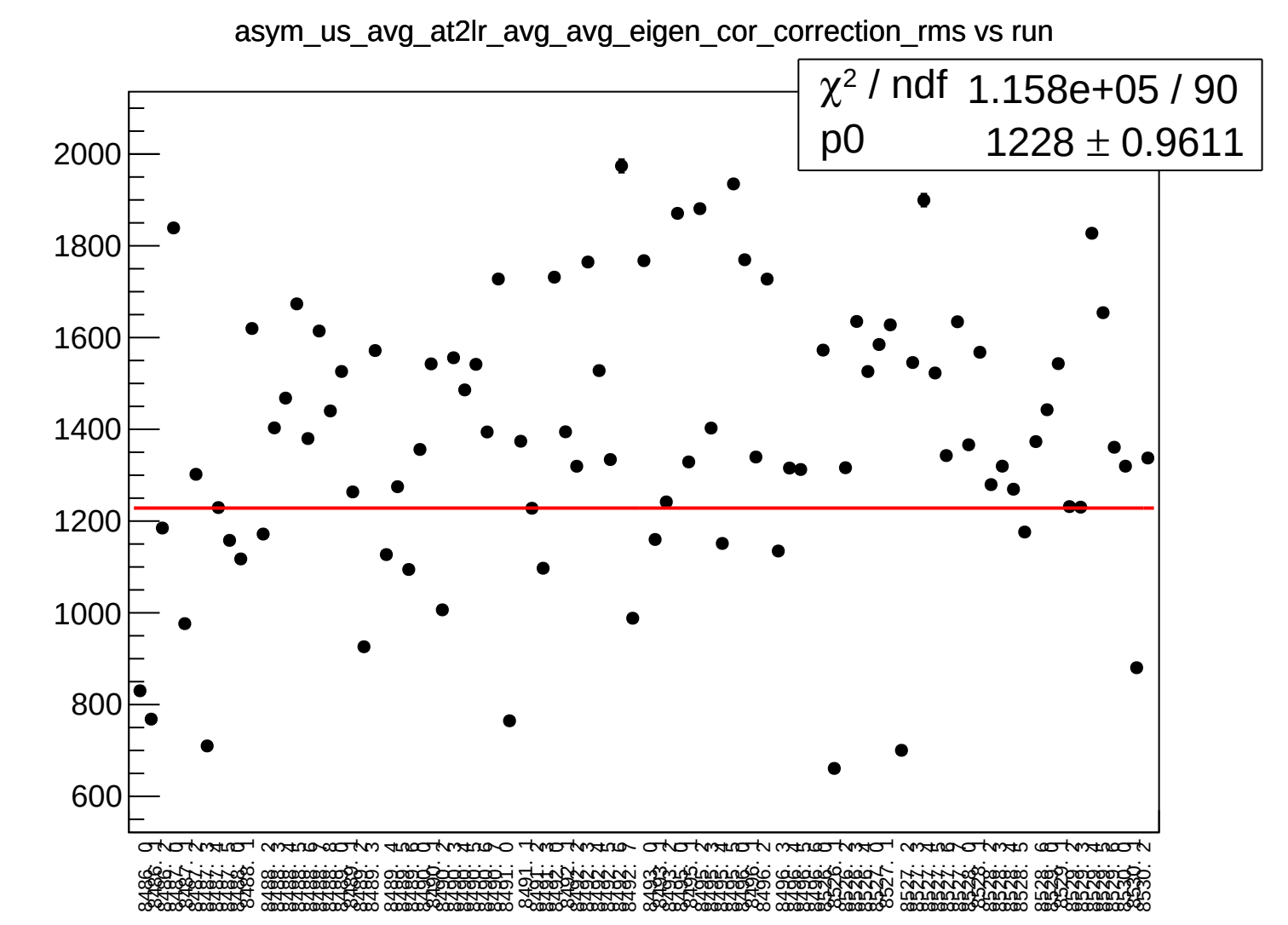

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 93.37 / 90
p0 −2.596e+04 ± 3.328e+04
1000
500
0
−500
−1000
pull
Entries 91
Mean −490.7
Std Dev 0
2
1
0
−1
−2

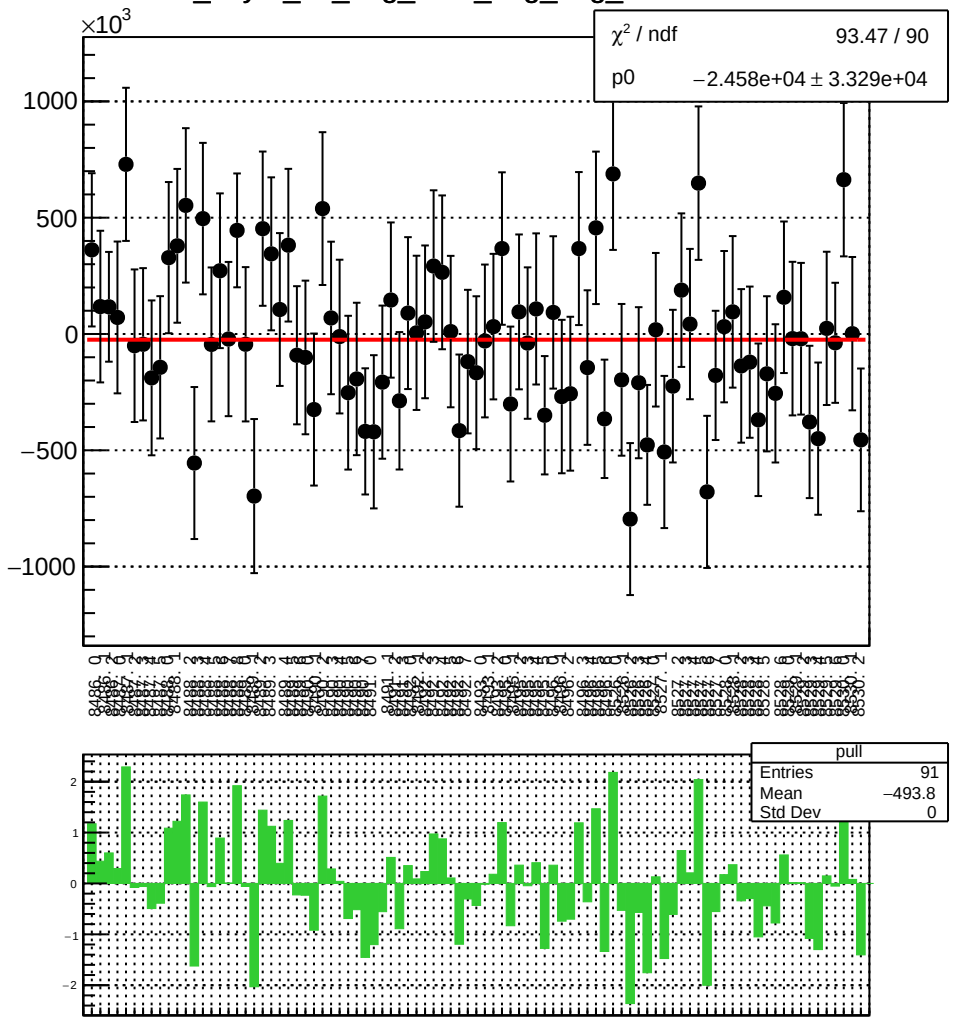

pull1D
Entries 91
Mean 0.01253
Std Dev 1.013
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

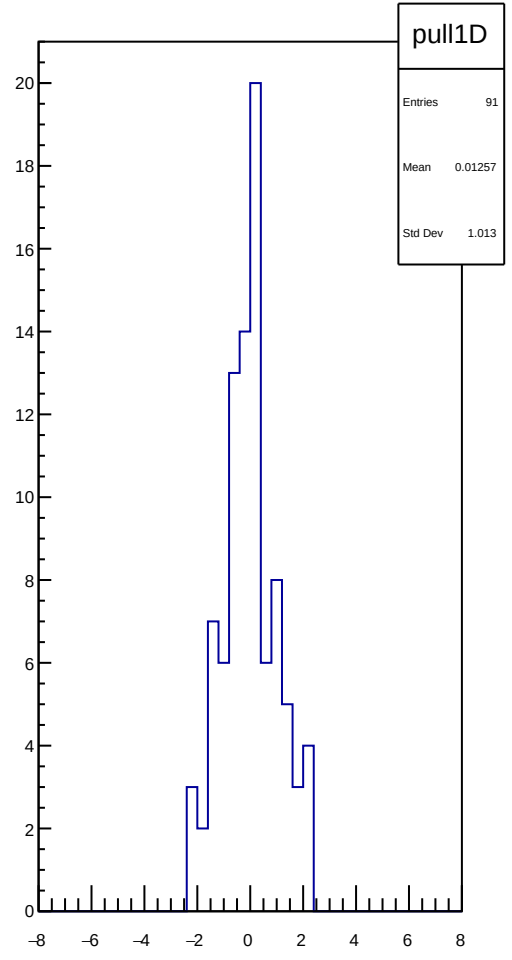

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 97.65 / 90
p0 3.113e+04 ± 23.54
32000
31800
31600
31400
31200
31000
30800
30600
30400
30200

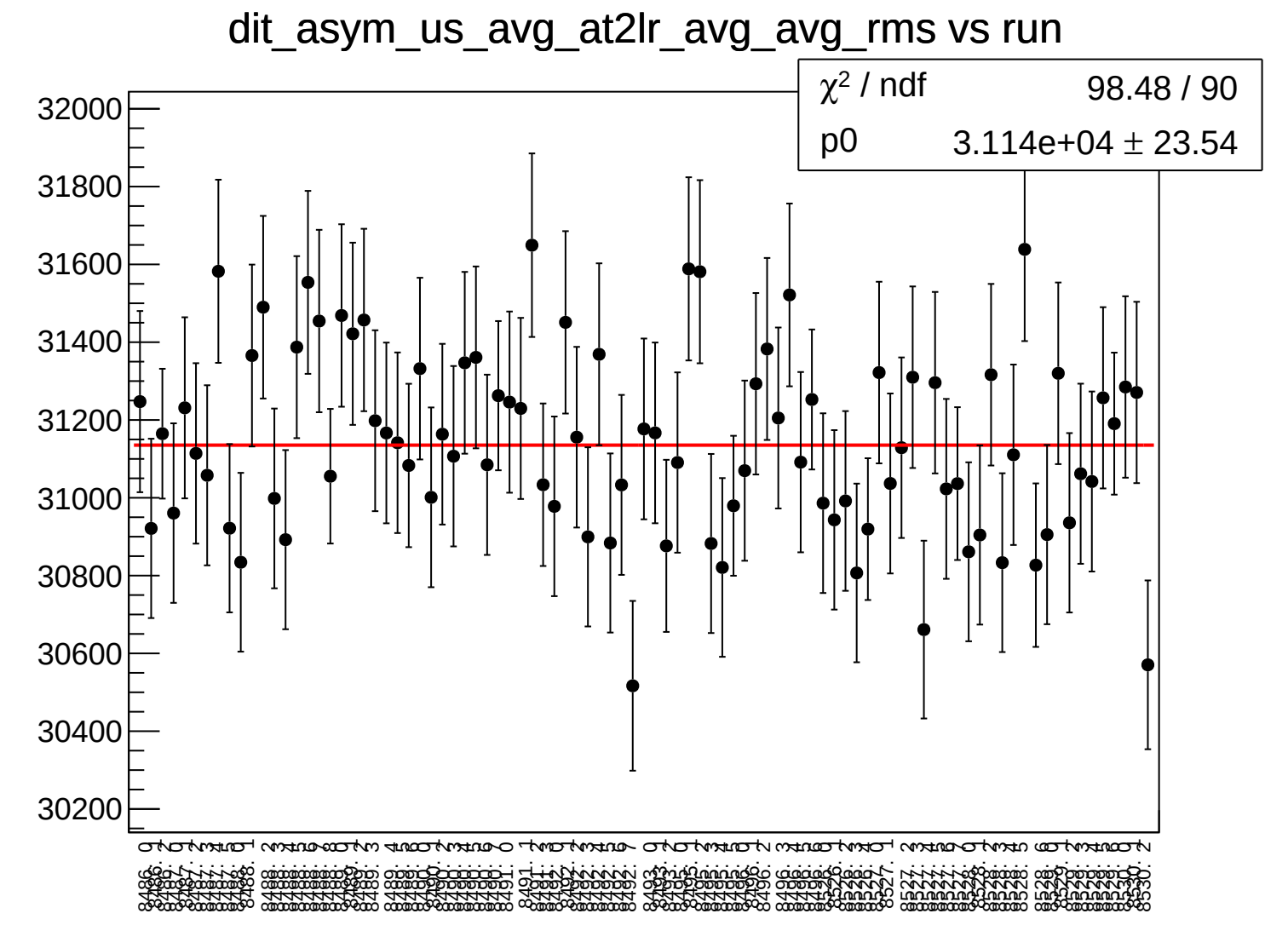

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
χ² / ndf 97.45 / 90
p0 −1159 ± 1359
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 13.22
Std Dev 0
2
1
0
−1
−2

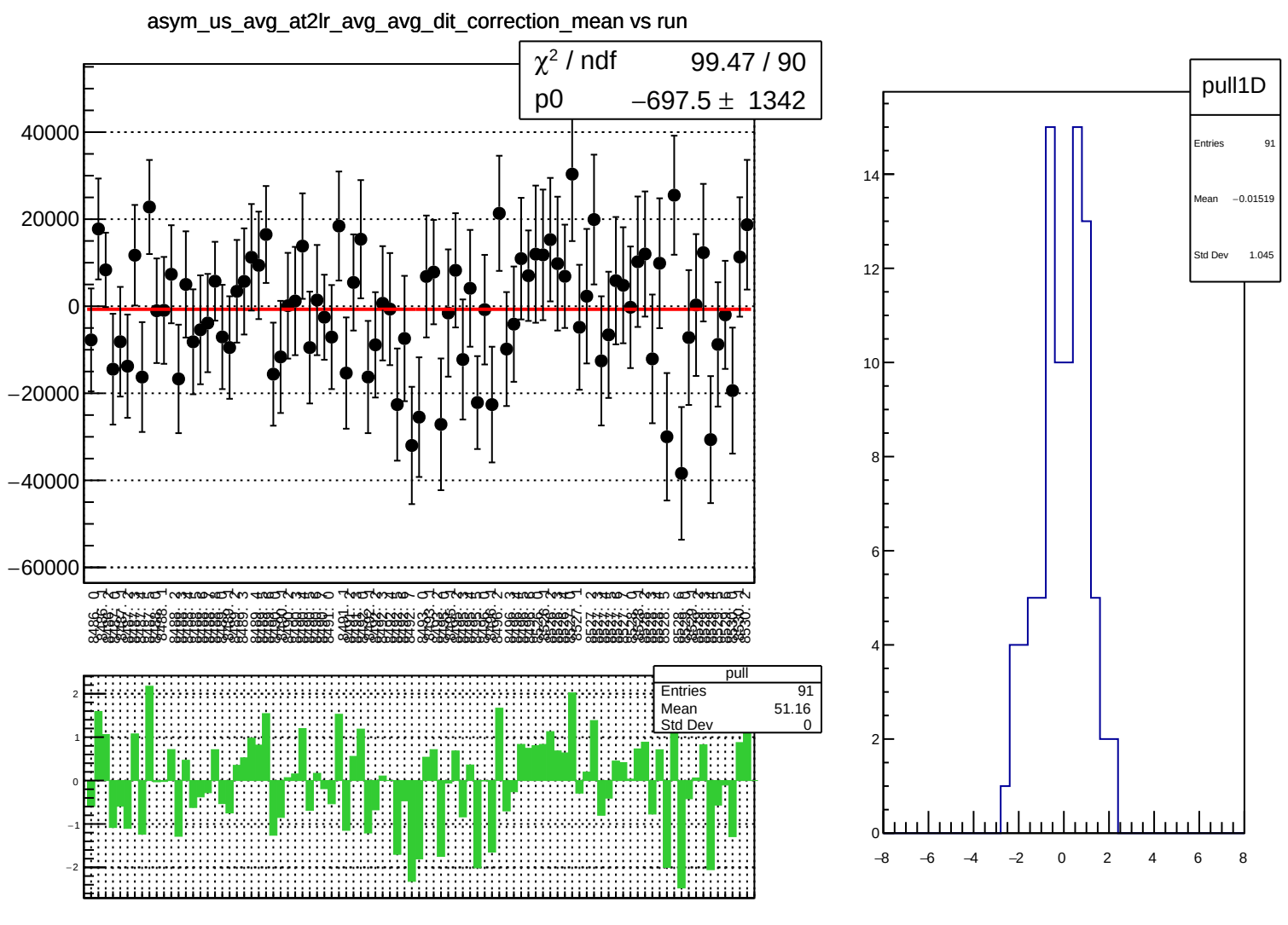

pull1D
Entries 91
Mean −0.04846
Std Dev 1.034
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

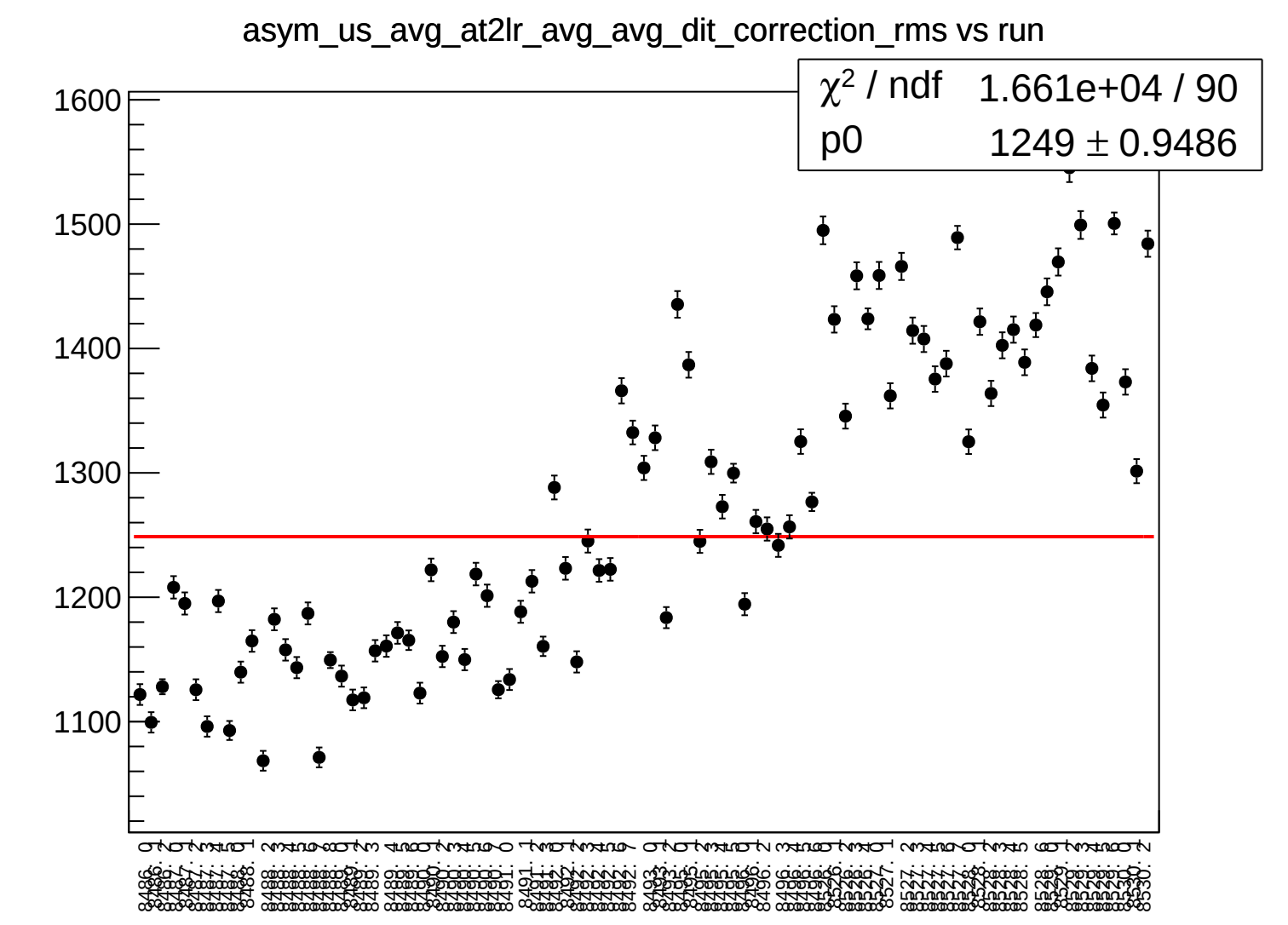

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.158e+05 / 90
p0 1228 ± 0.9611
2000
1800
1600
1400
1200
1000
800
600

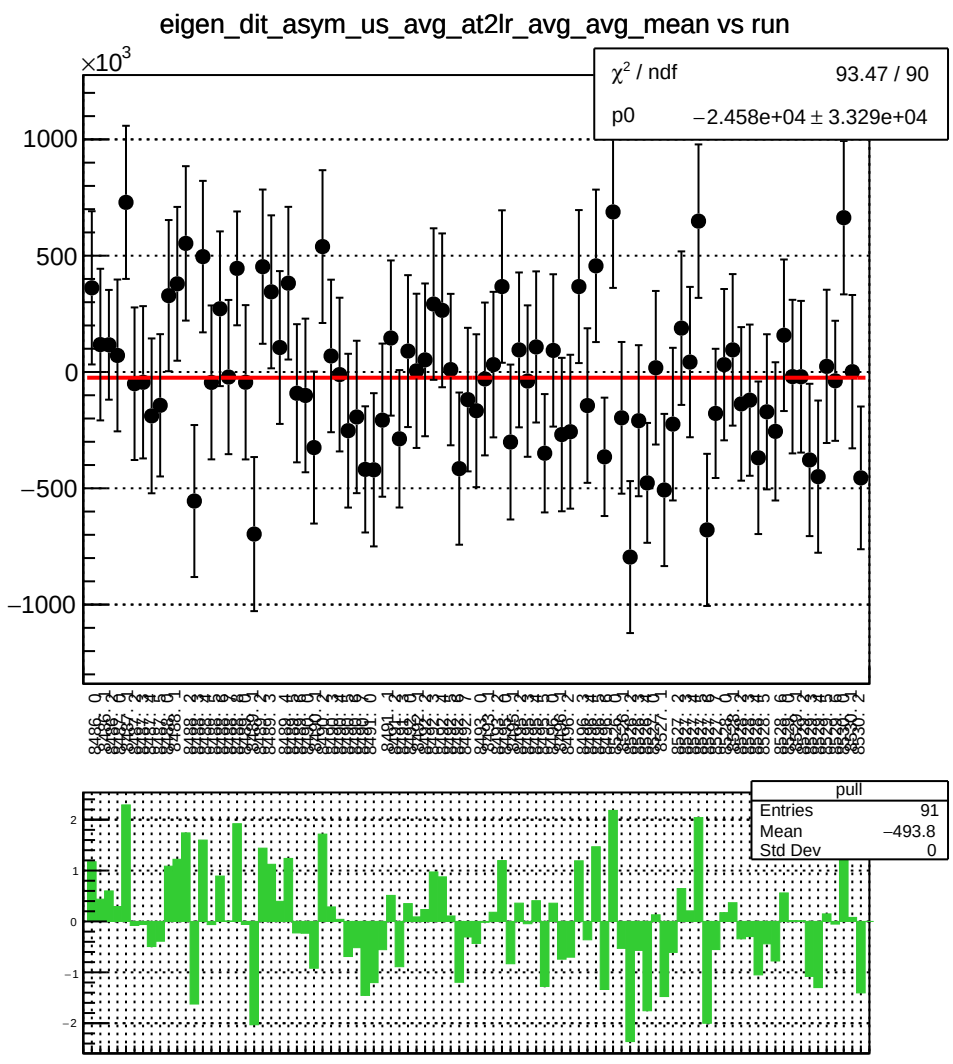

dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 93.47 / 90
p0 −2.458e+04 ± 3.329e+04
1000
500
0
−500
−1000
pull
Entries 91
Mean −493.8
Std Dev 0
2
1
0
−1
−2

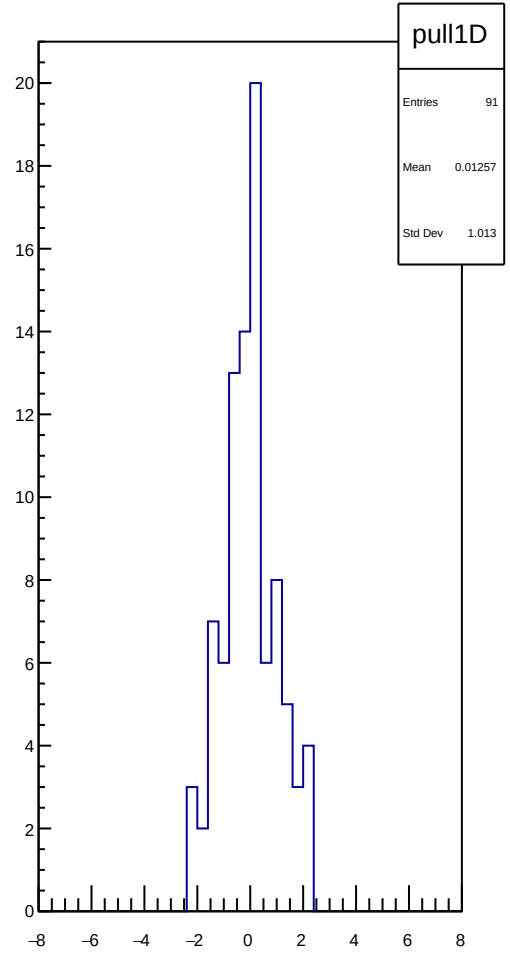

pull1D
Entries 91
Mean 0.01257
Std Dev 1.013
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 98.48 / 90
p0 3.114e+04 ± 23.54
32000
31800
31600
31400
31200
31000
30800
30600
30400
30200


asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
χ² / ndf 99.47 / 90
p0 −697.5 ± 1342
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 51.16
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.01519
Std Dev 1.045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 1.661e+04 / 90
p0 1249 ± 0.9486
1600
1500
1400
1300
1200
1100


eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 93.47 / 90
p0 −2.458e+04 ± 3.329e+04
1000
500
0
−500
−1000
pull
Entries 91
Mean −493.8
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 91
Mean 0.01257
Std Dev 1.013
20
18
16
14
12
10
8
6
4
2
0
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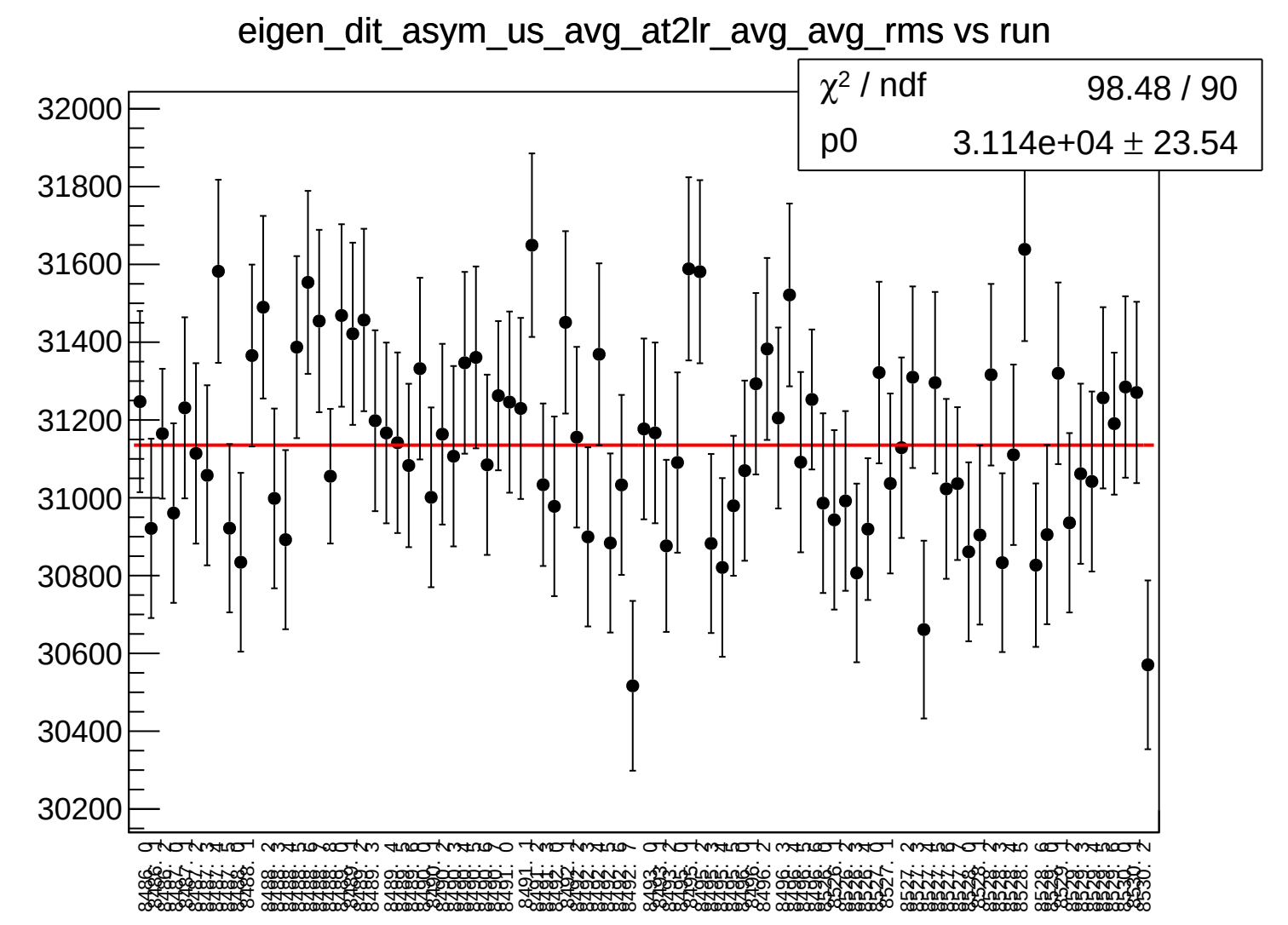
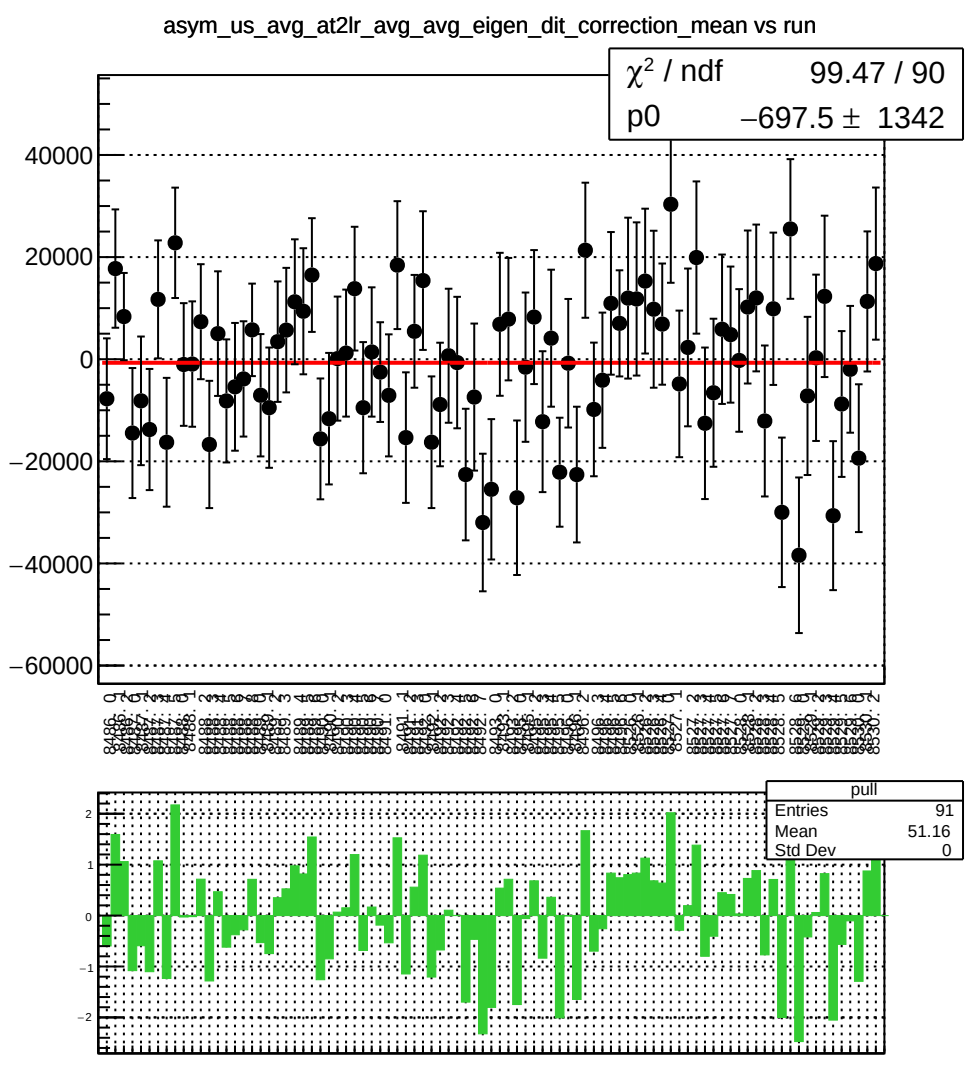
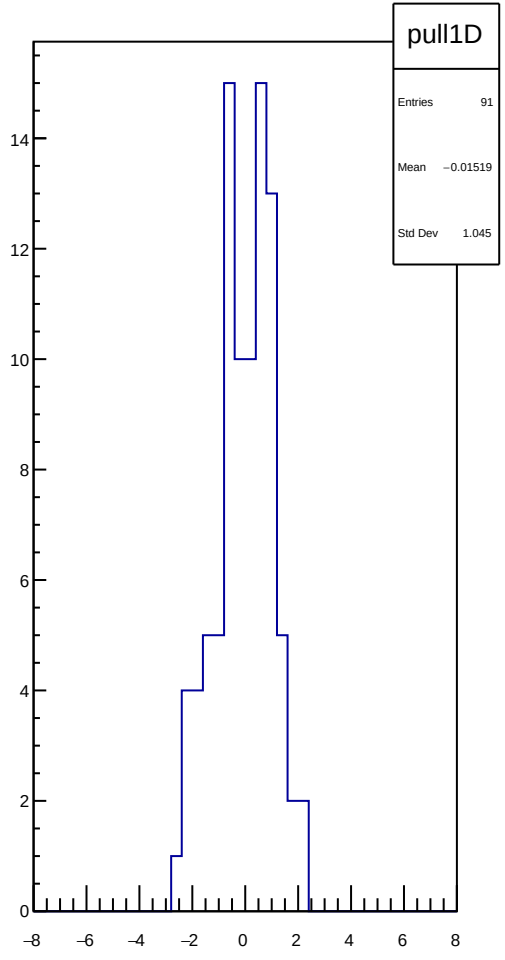
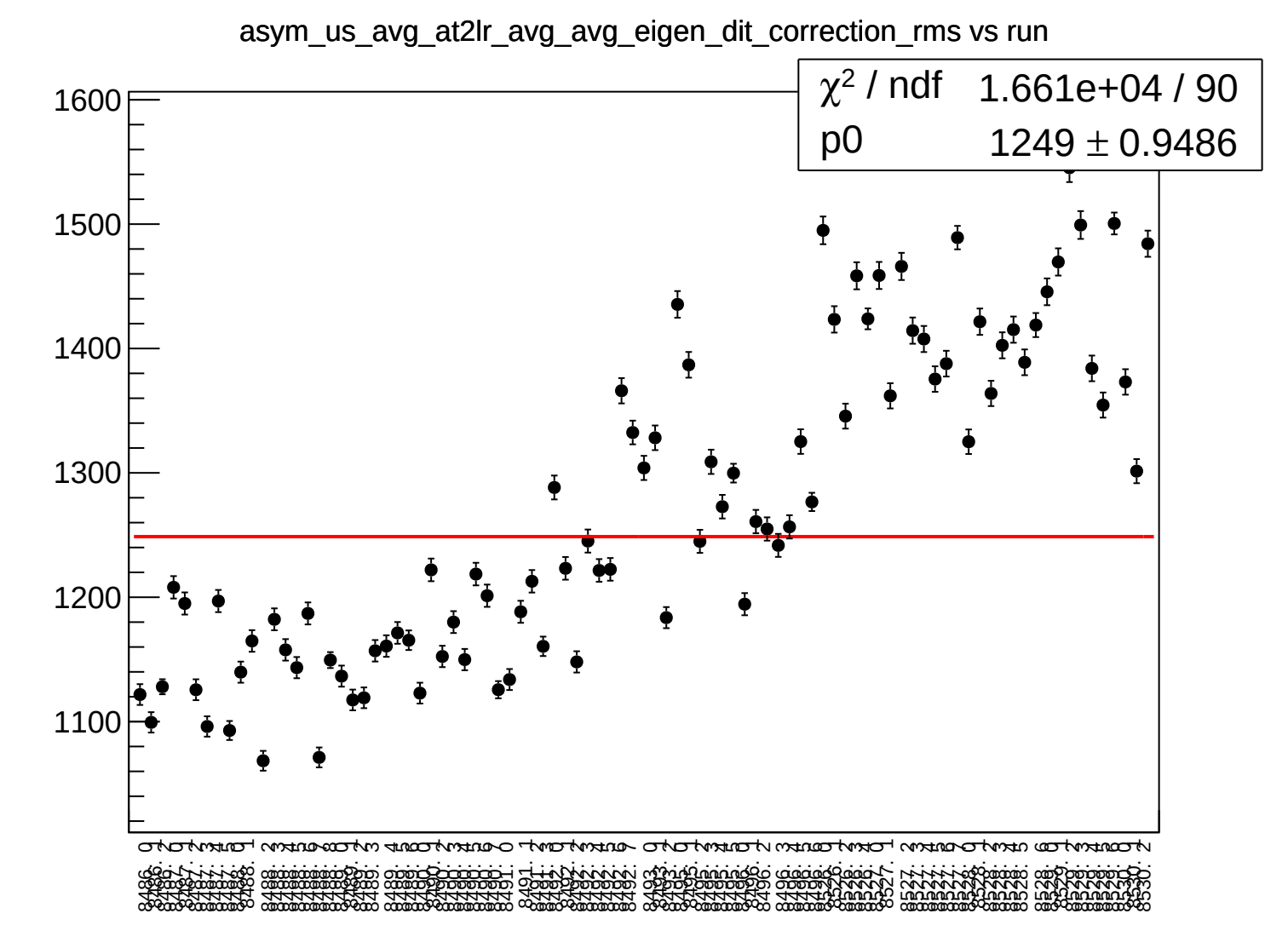
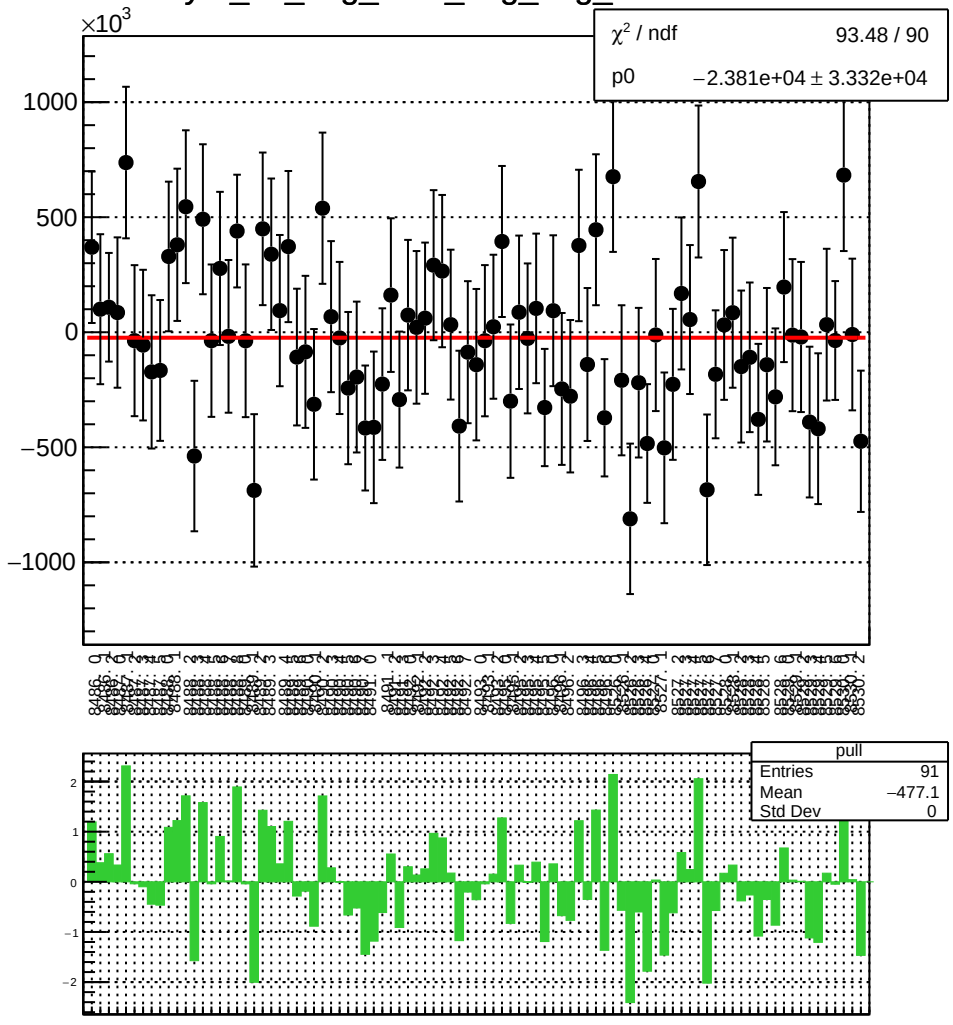
−4
−2
0
2
4
6
8

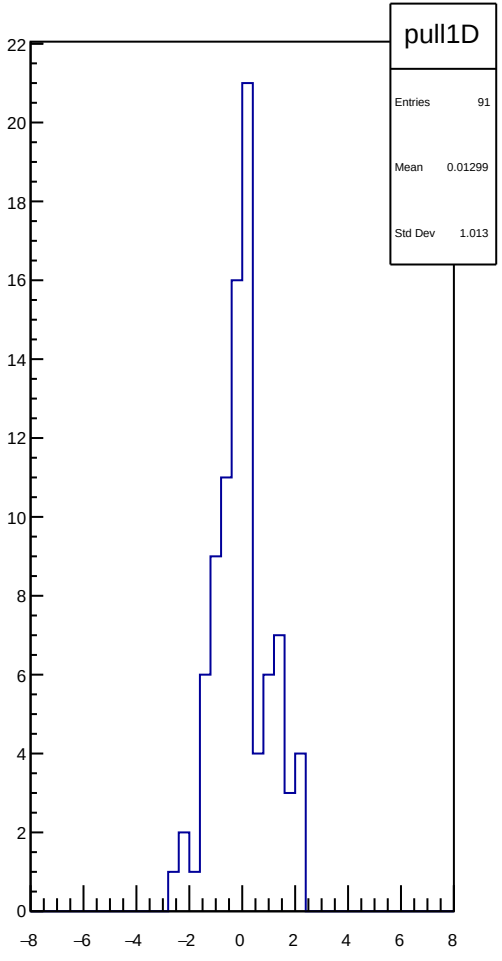

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 98.48 / 90
p0 3.114e+04 ± 23.54
32000
31800
31600
31400
31200
31000
30800
30600
30400
30200

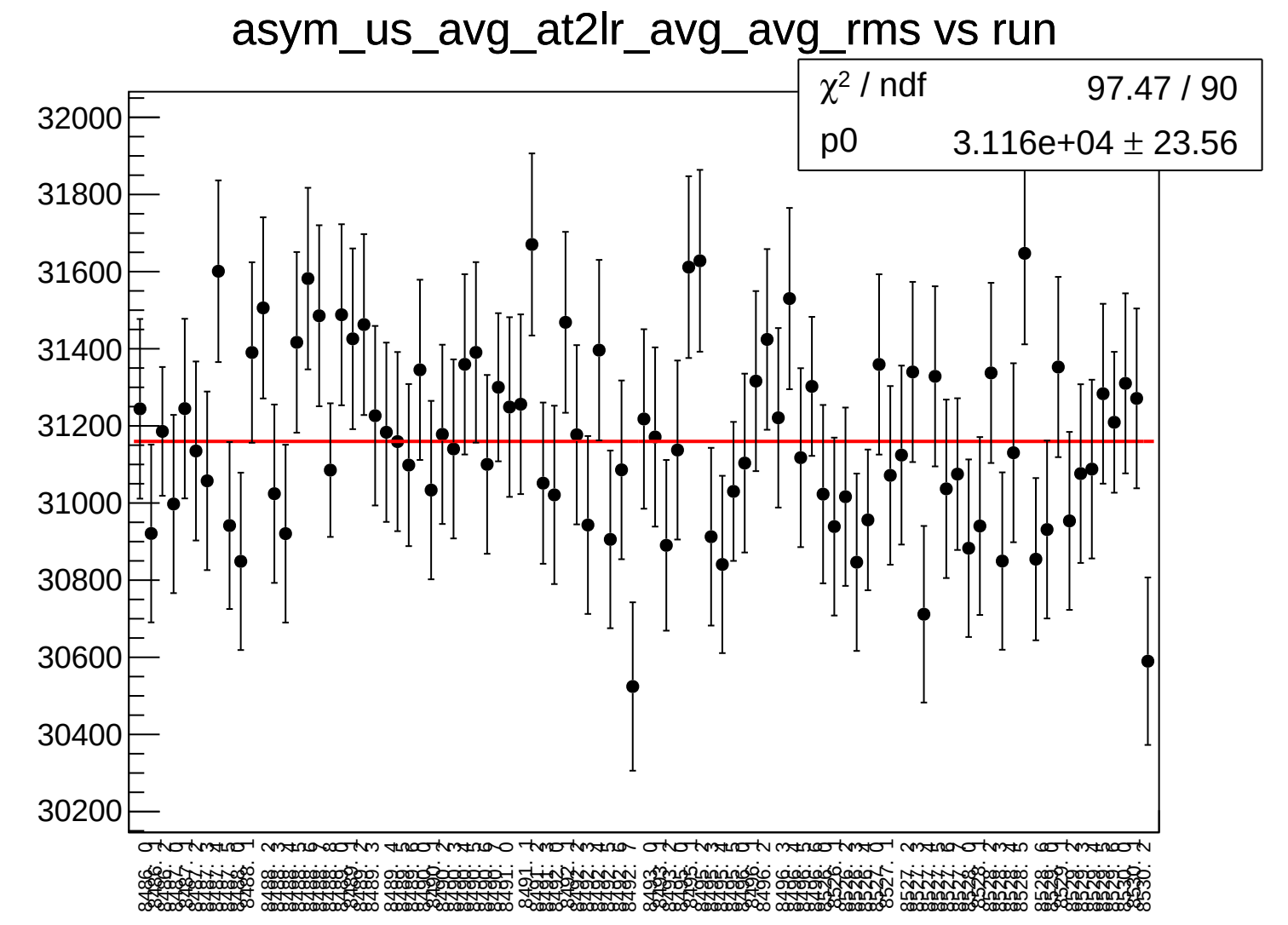

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
χ² / ndf 99.47 / 90
p0 −697.5 ± 1342
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 51.16
Std Dev 0
2
1
0
−1
−2

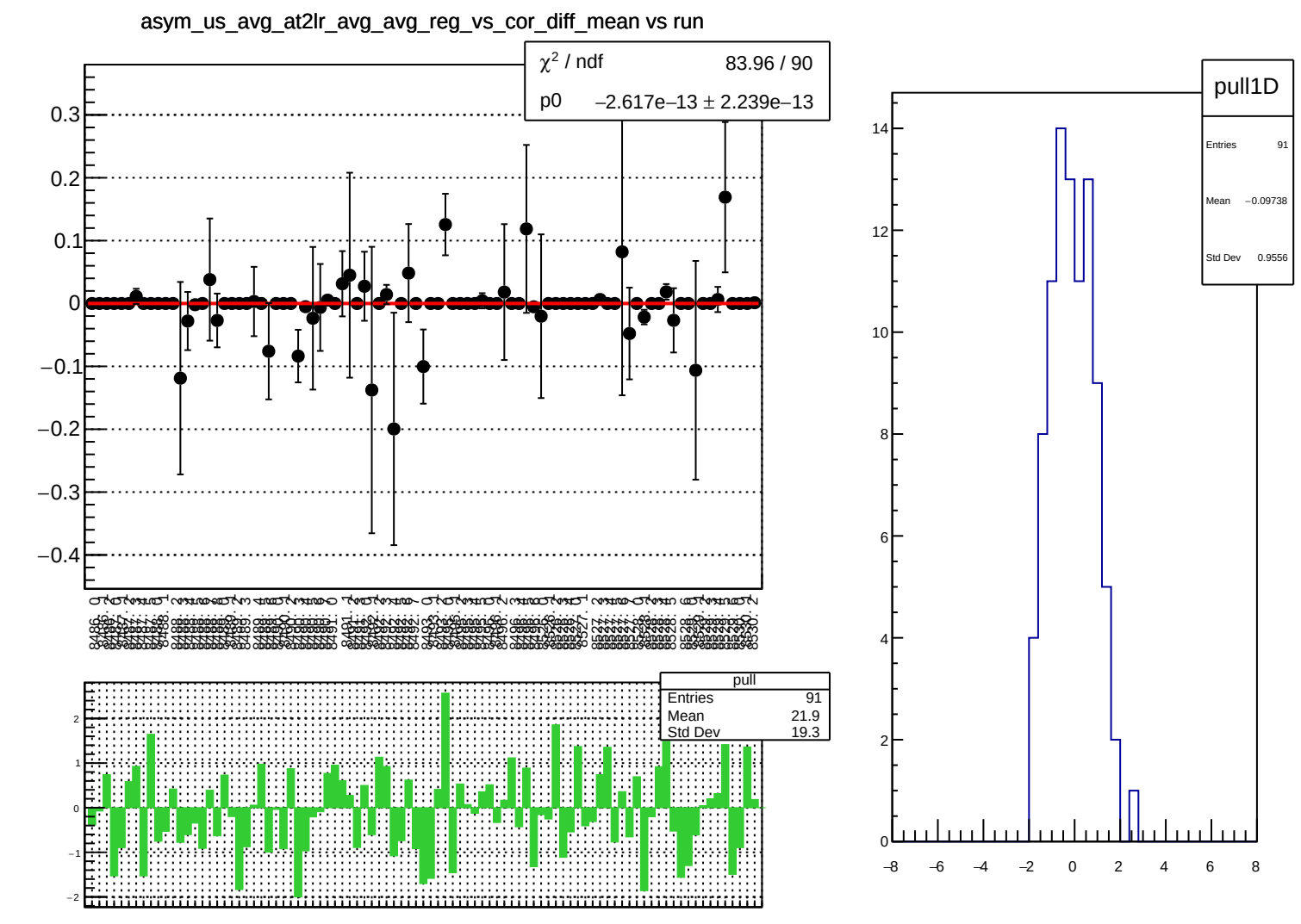

pull1D
Entries 91
Mean −0.01519
Std Dev 1.045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

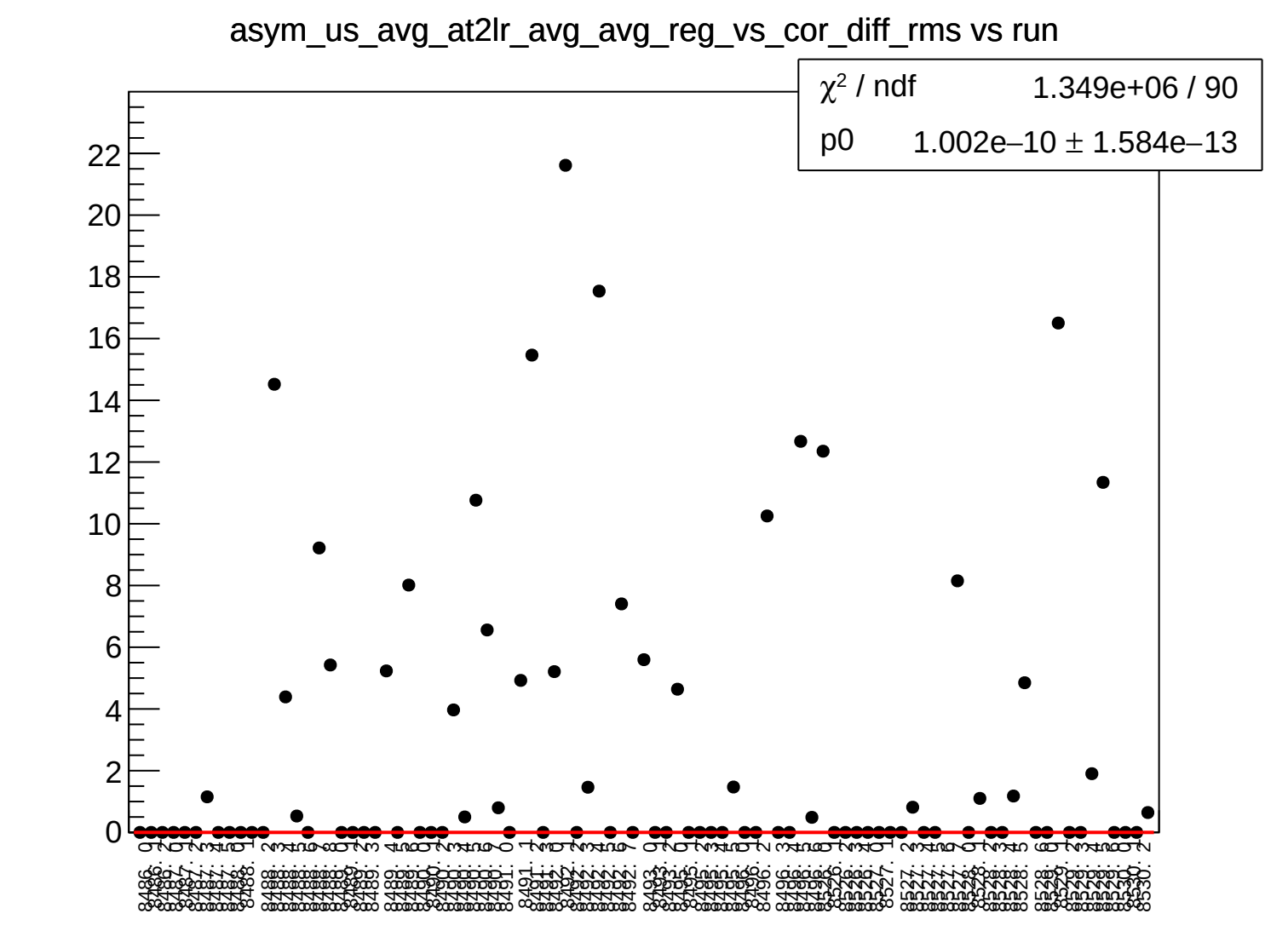

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.661e+04 / 90
p0 1249 ± 0.9486
1600
1500
1400
1300
1200
1100

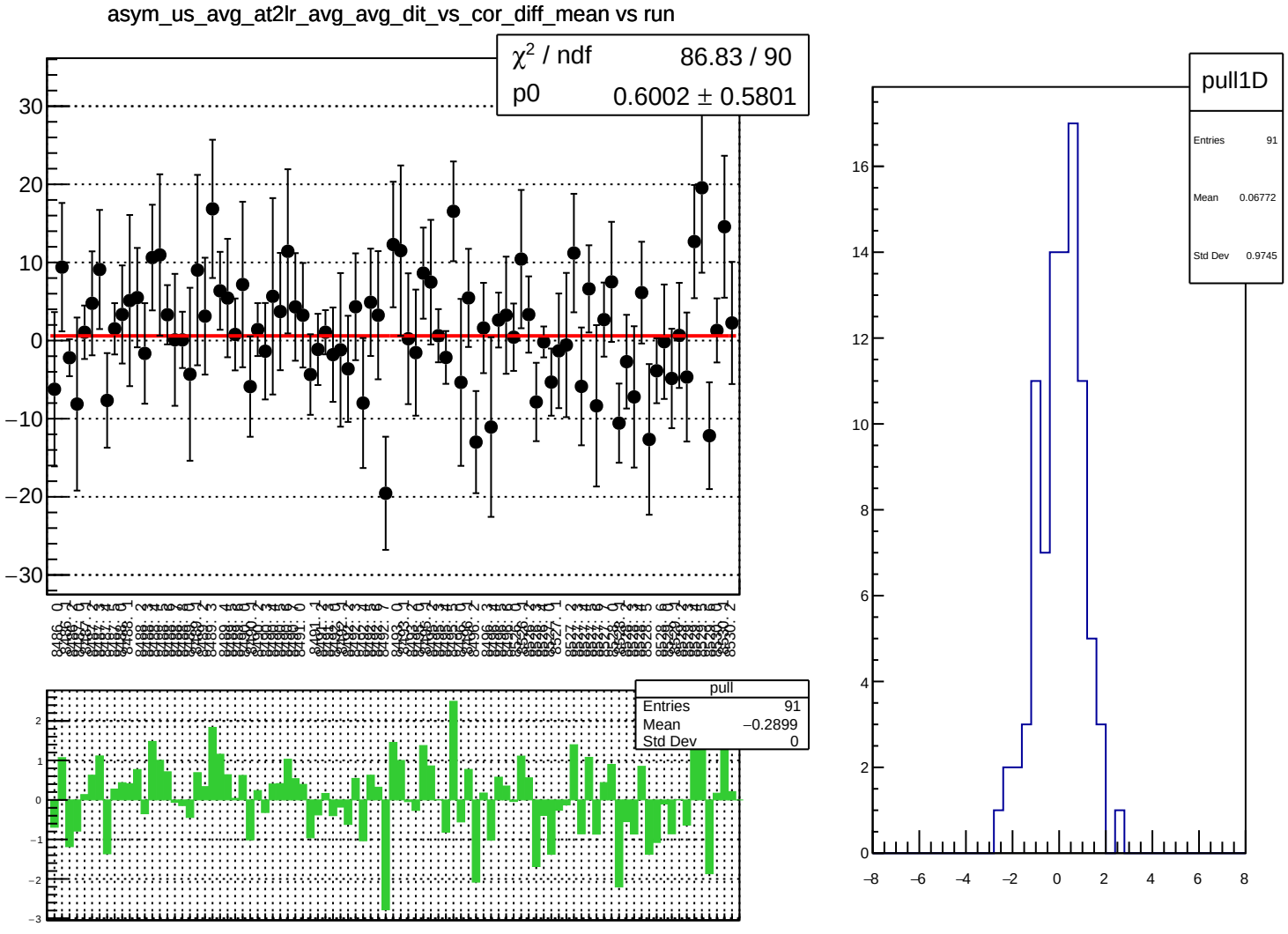

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 93.48 / 90
p0 −2.381e+04 ± 3.332e+04
1000
500
0
−500
−1000
pull
Entries 91
Mean −477.1
Std Dev 0
2
1
0
−1
−2

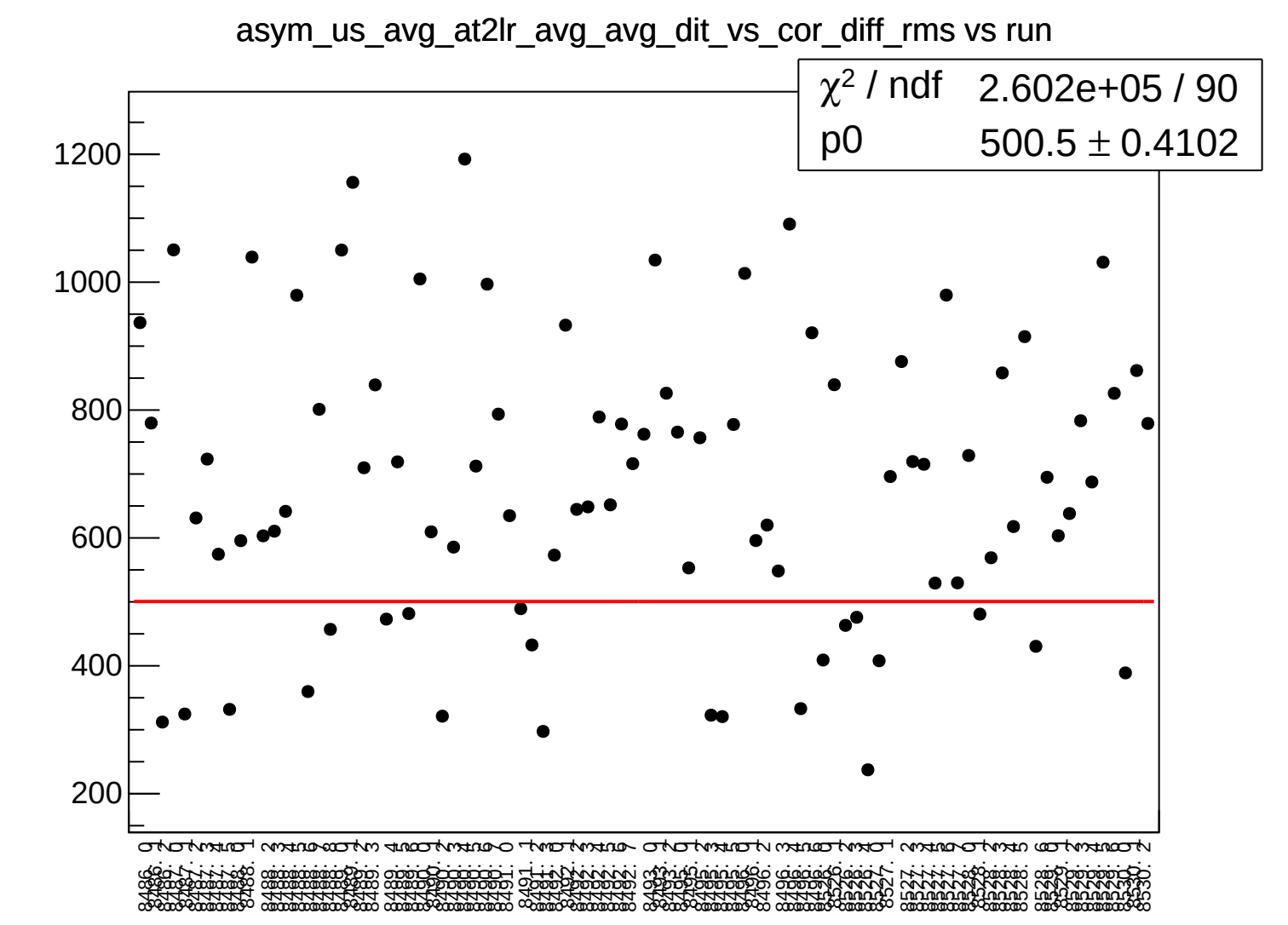

pull1D
Entries 91
Mean 0.01299
Std Dev 1.013
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

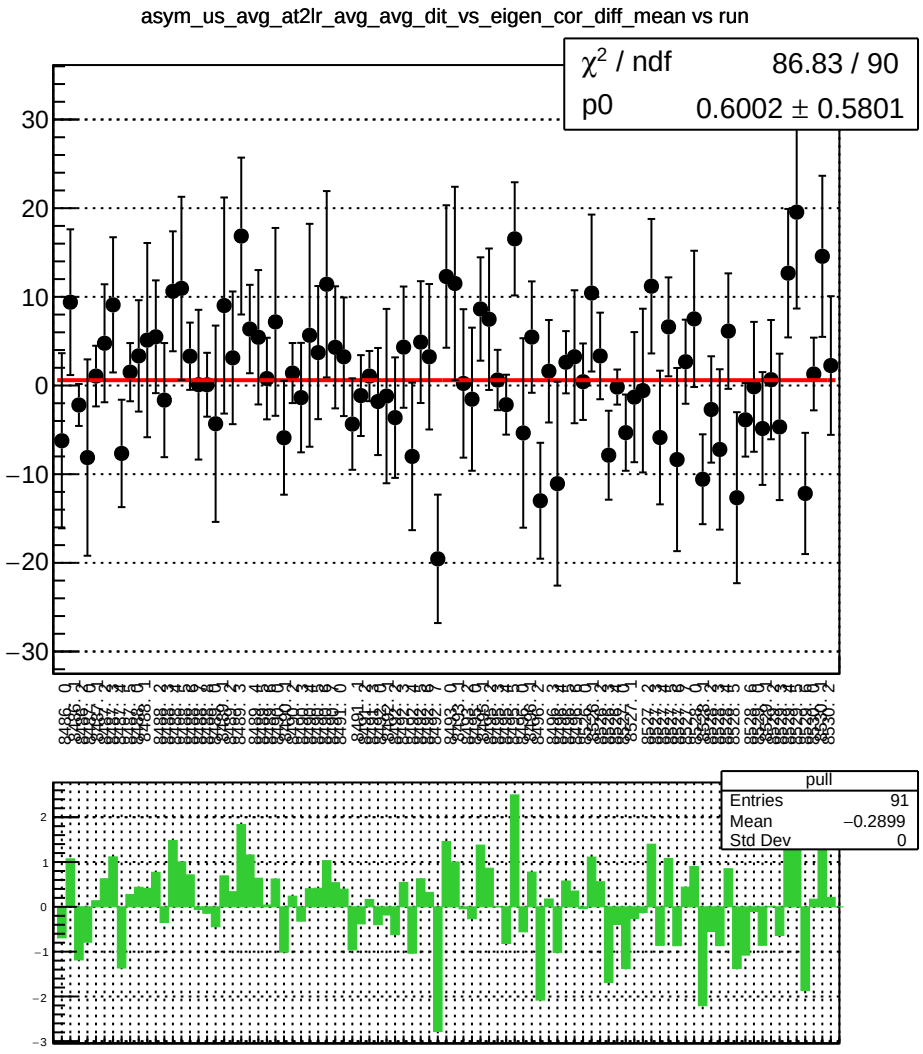

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 97.47 / 90
p0 3.116e+04 ± 23.56
32000
31800
31600
31400
31200
31000
30800
30600
30400
30200

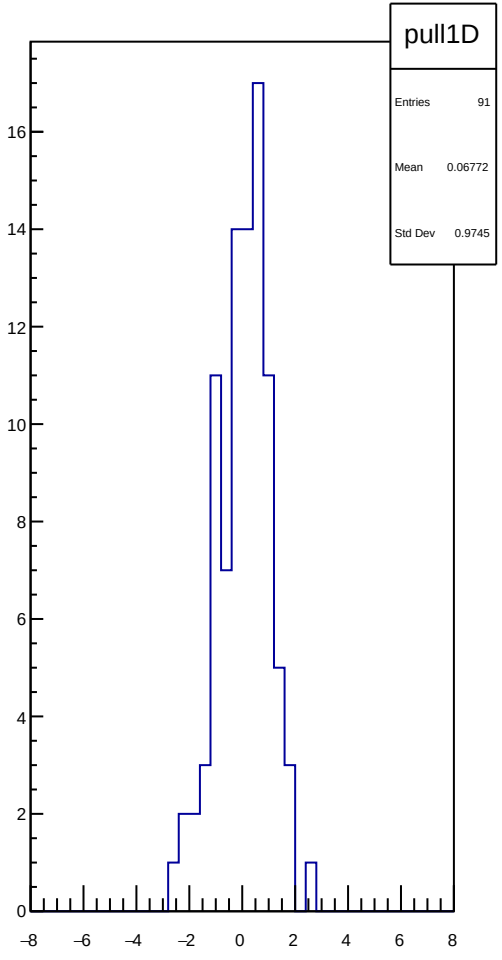

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 83.96 / 90
p0 −2.617e−13 ± 2.239e−13
pull
Entries 91
Mean 21.9
Std Dev 19.3
pull1D
Entries 91
Mean −0.09738
Std Dev 0.9556

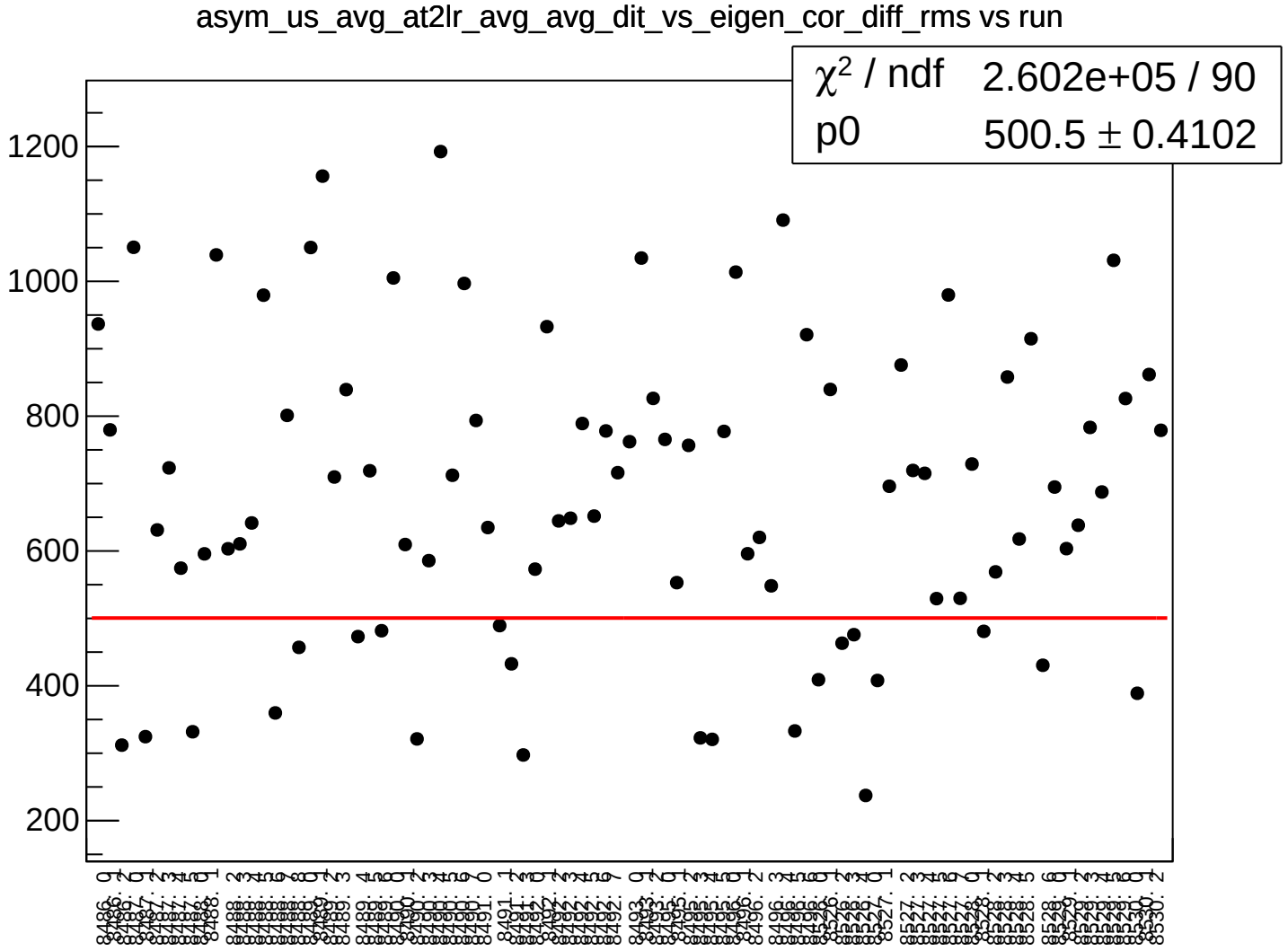

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.349e+06 / 90
p0 1.002e−10 ± 1.584e−13
0
2
4
6
8
10
12
14
16
18
20
22

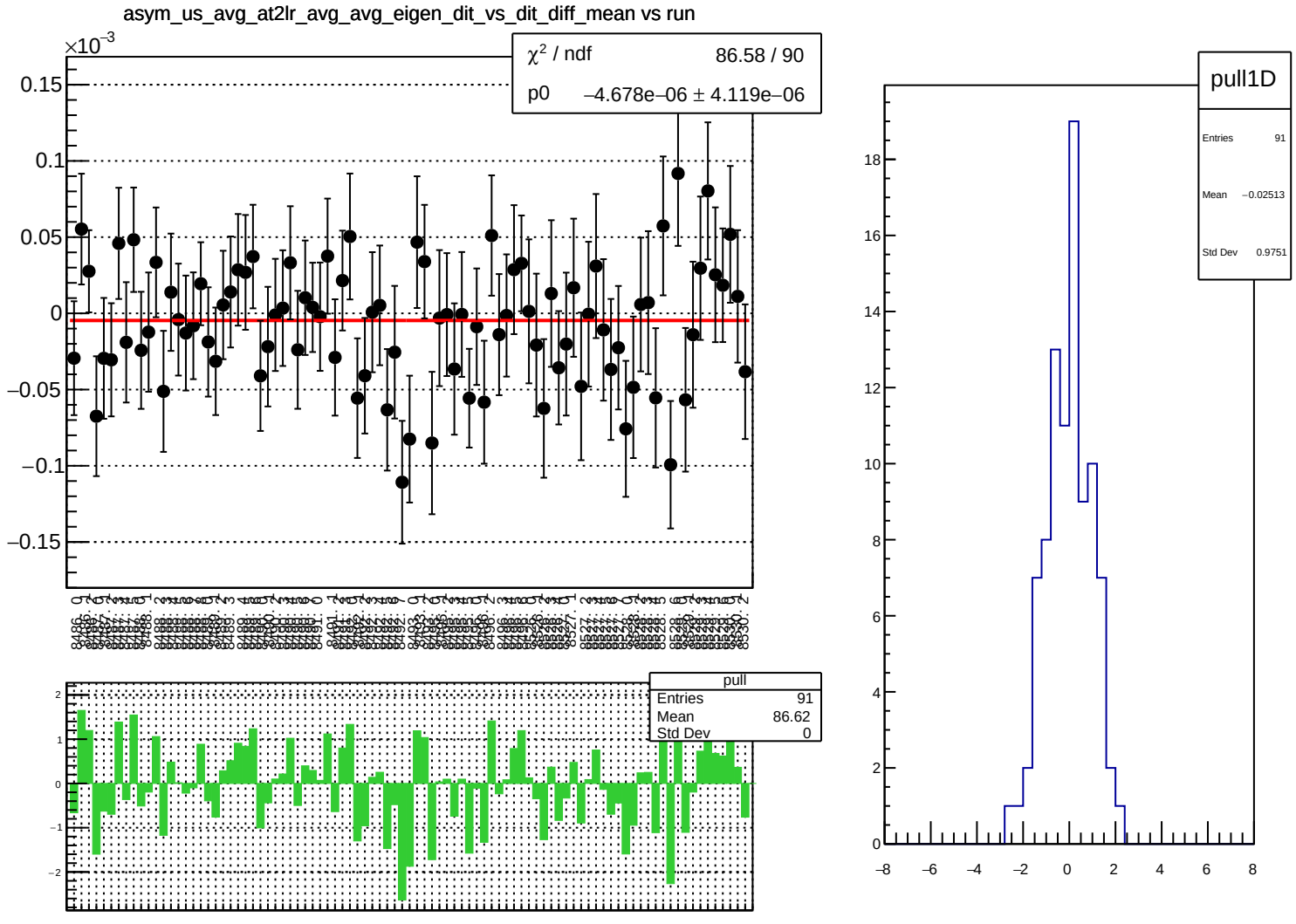

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 86.83 / 90
p0 0.6002 ± 0.5801
pull
Entries 91
Mean −0.2899
Std Dev 0
pull1D
Entries 91
Mean 0.06772
Std Dev 0.9745

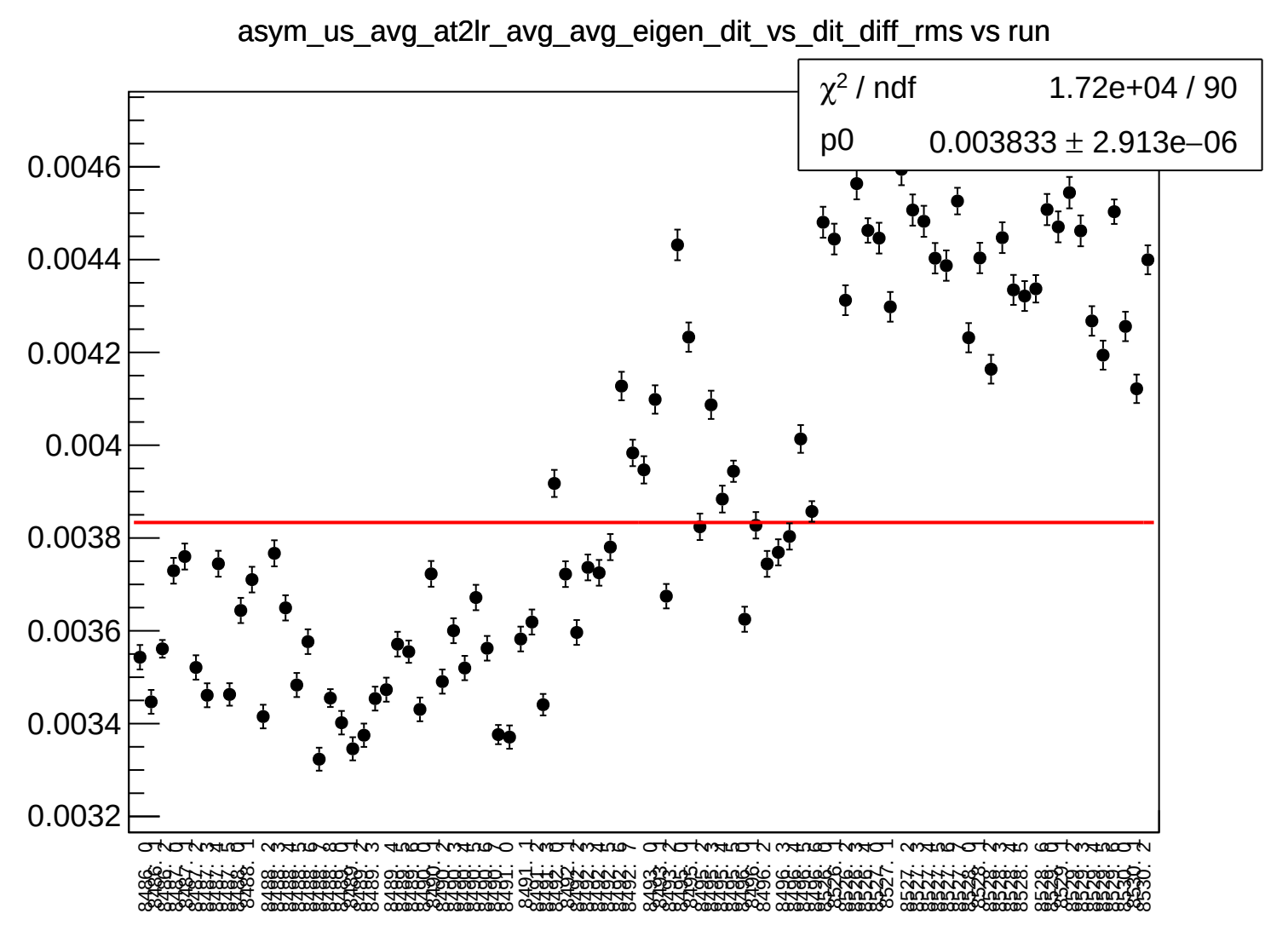

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.602e+05 / 90
p0 500.5 ± 0.4102
1200
1000
800
600
400
200

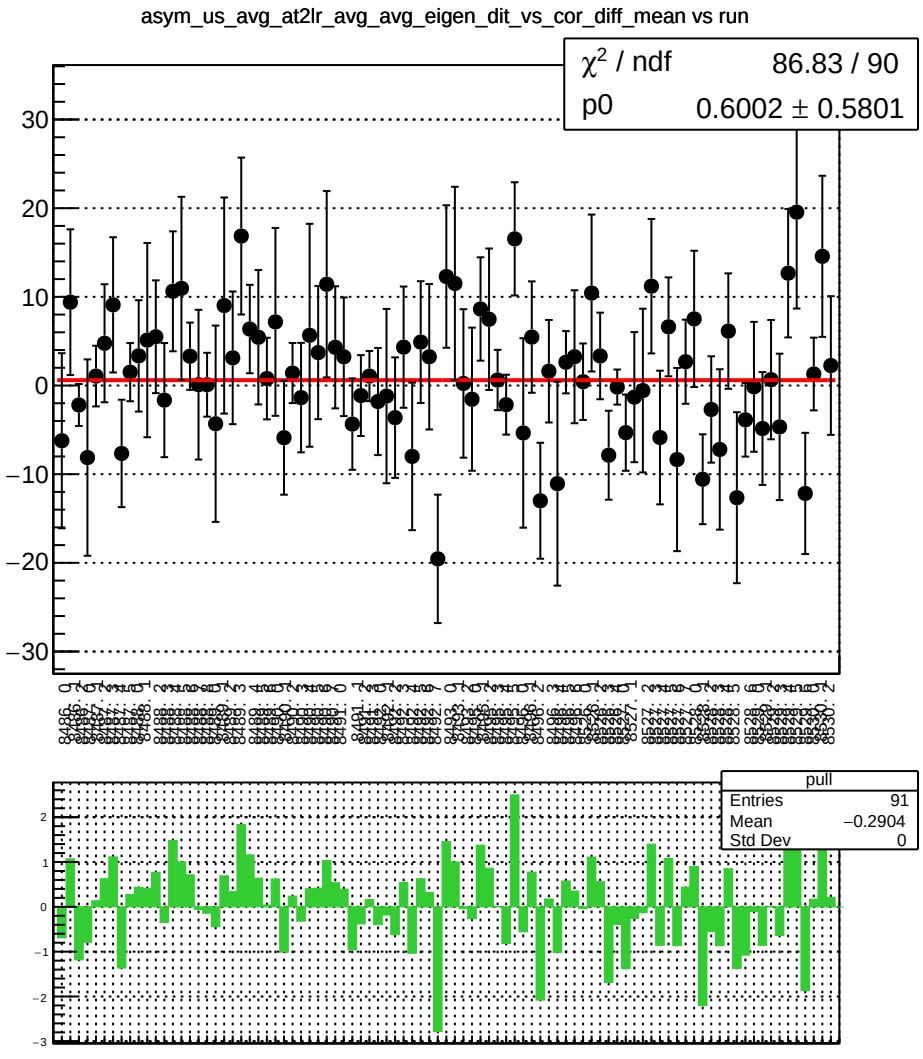

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.83 / 90
p0 0.6002 ± 0.5801
pull
Entries 91
Mean −0.2899
Std Dev 0

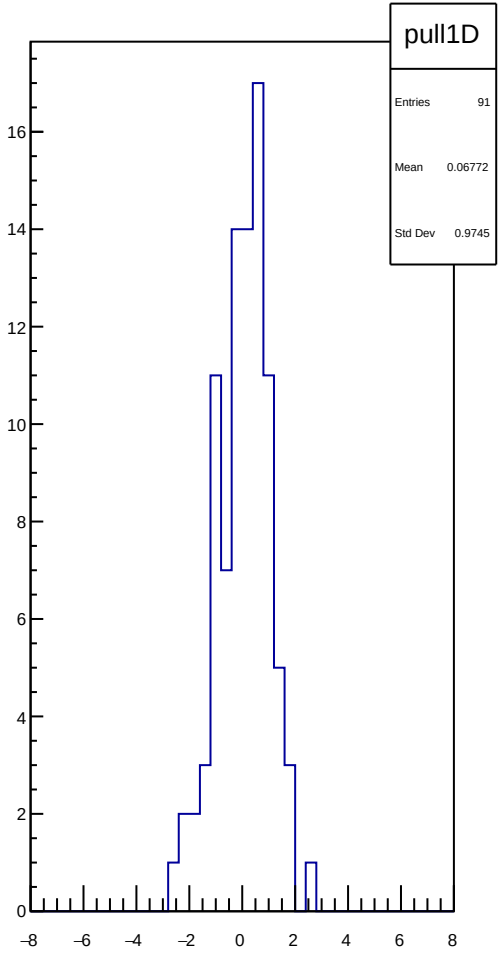

pull1D
Entries 91
Mean 0.06772
Std Dev 0.9745

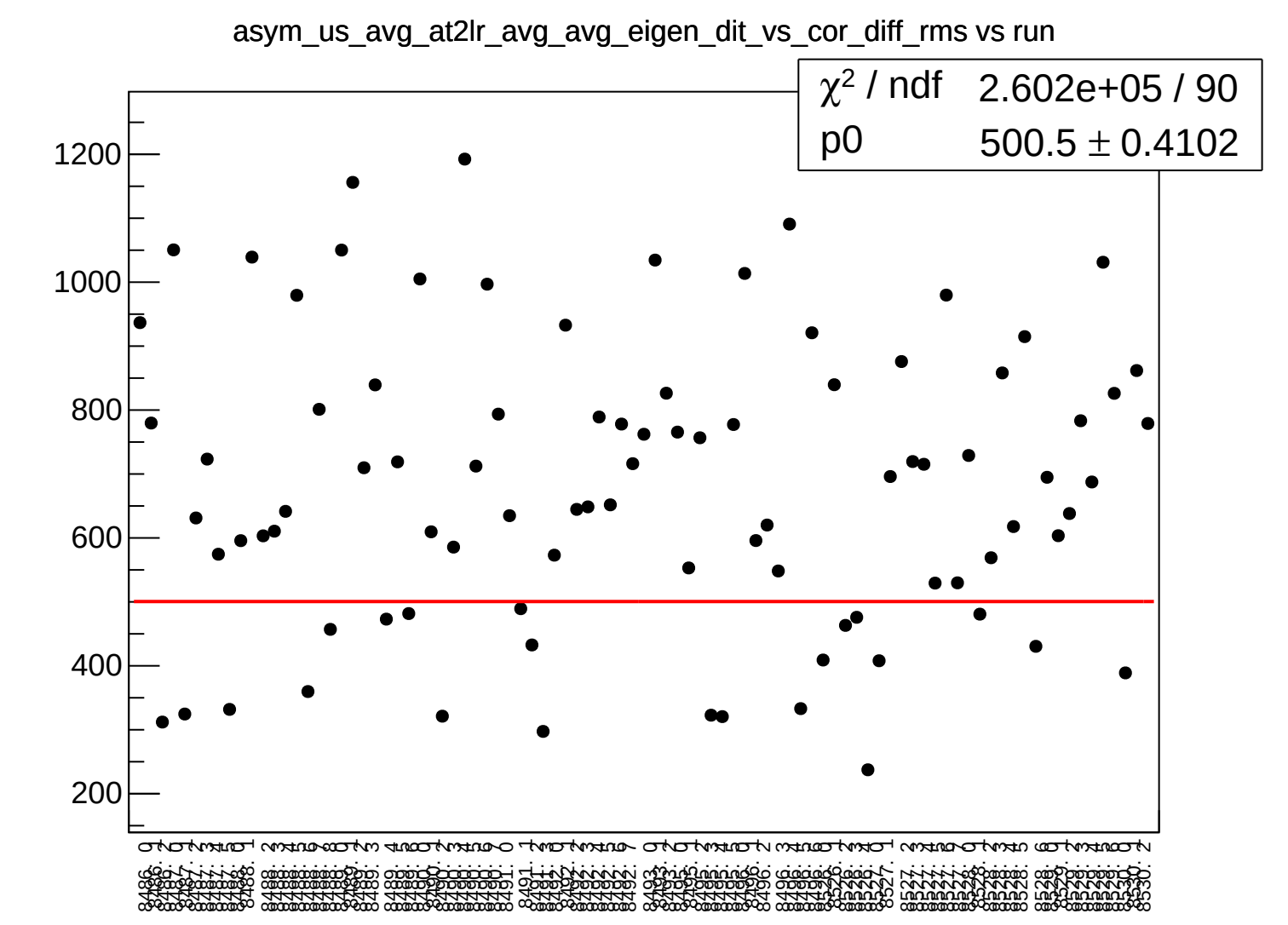

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.602e+05 / 90
p0 500.5 ± 0.4102
1200
1000
800
600
400
200

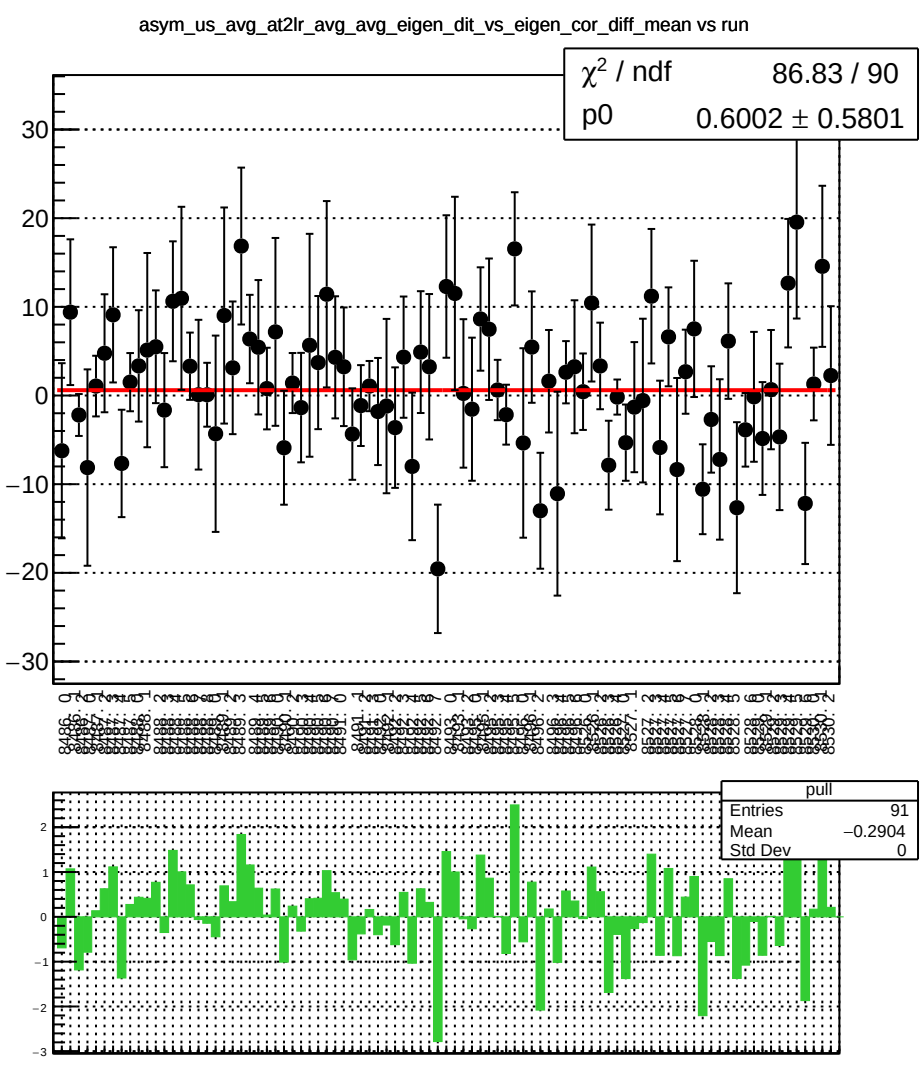

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.58 / 90
p0 −4.678e−06 ± 4.119e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 91
Mean 86.62
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.02513
Std Dev 0.9751
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

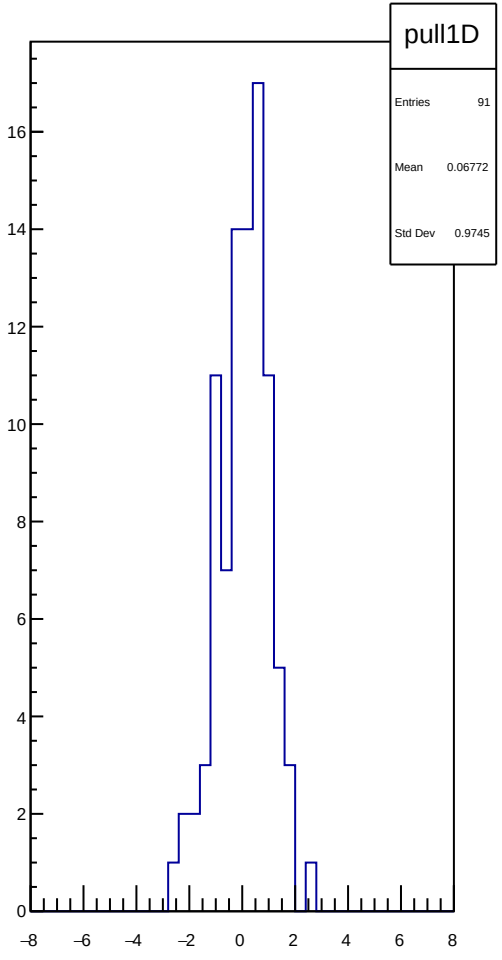

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.72e+04 / 90
p0 0.003833 ± 2.913e−06
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032

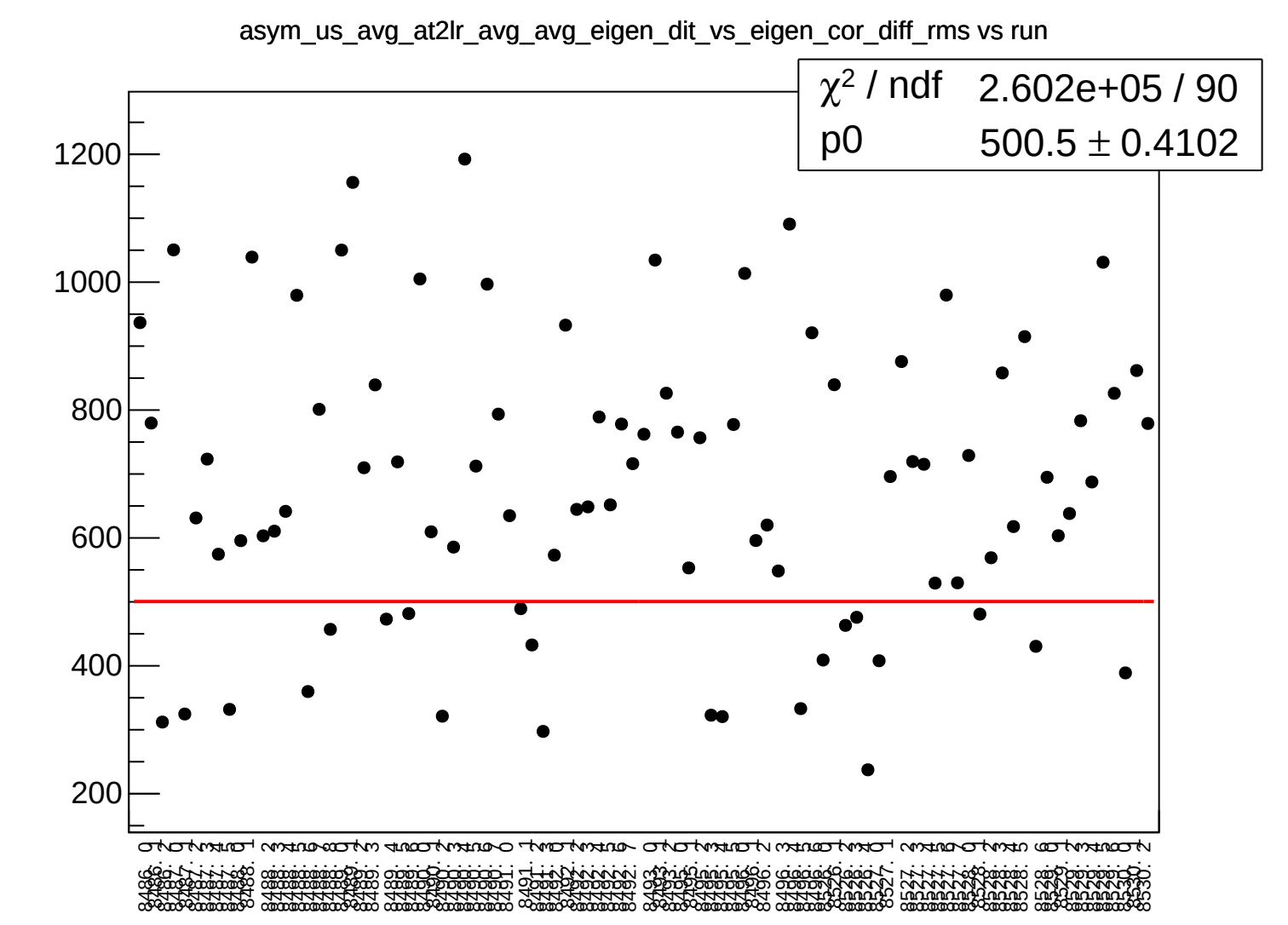

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.83 / 90
p0 0.6002 ± 0.5801
pull
Entries 91
Mean −0.2904
Std Dev 0

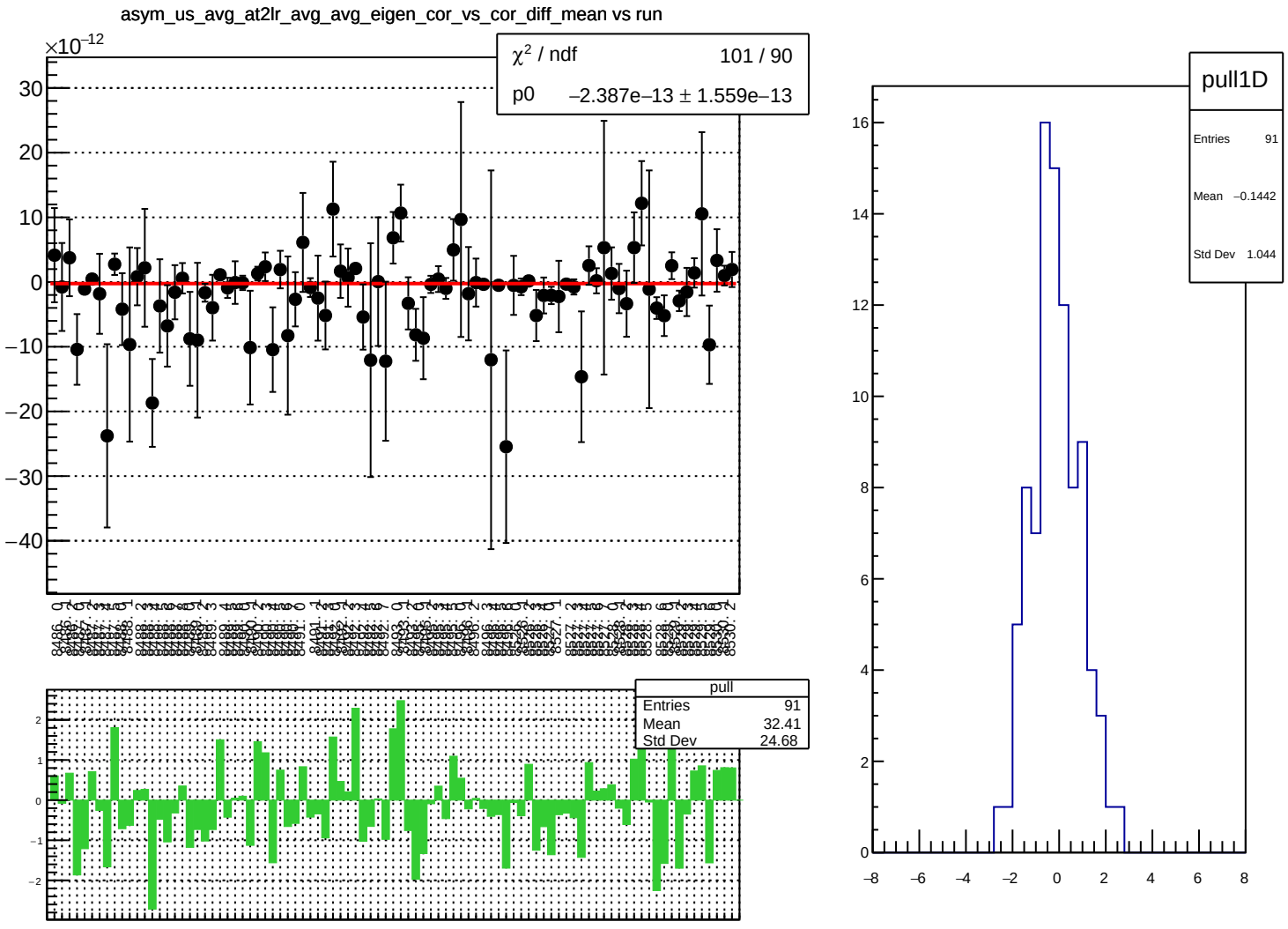

pull1D
Entries 91
Mean 0.06772
Std Dev 0.9745

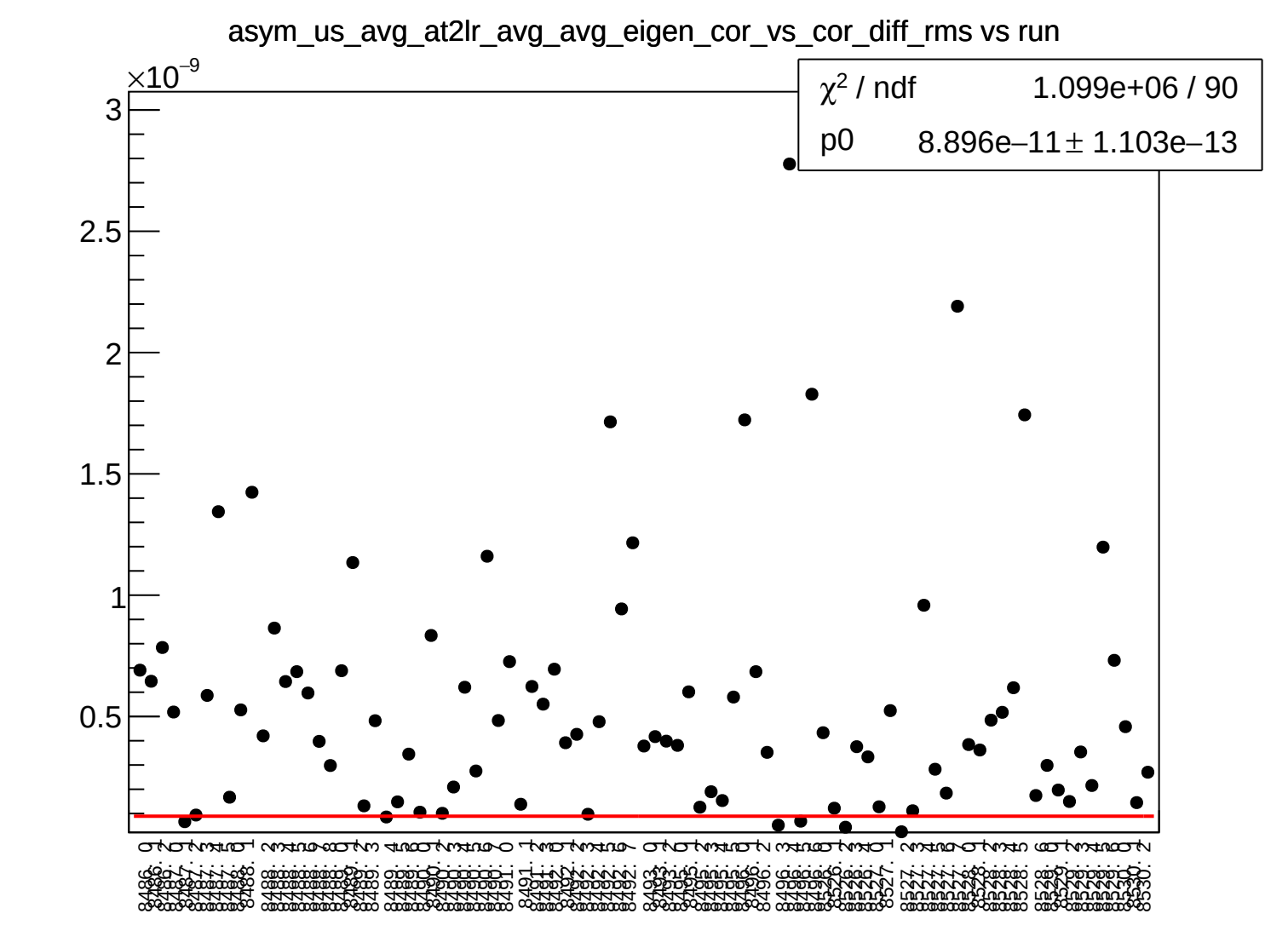

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.602e+05 / 90
p0 500.5 ± 0.4102
1200
1000
800
600
400
200

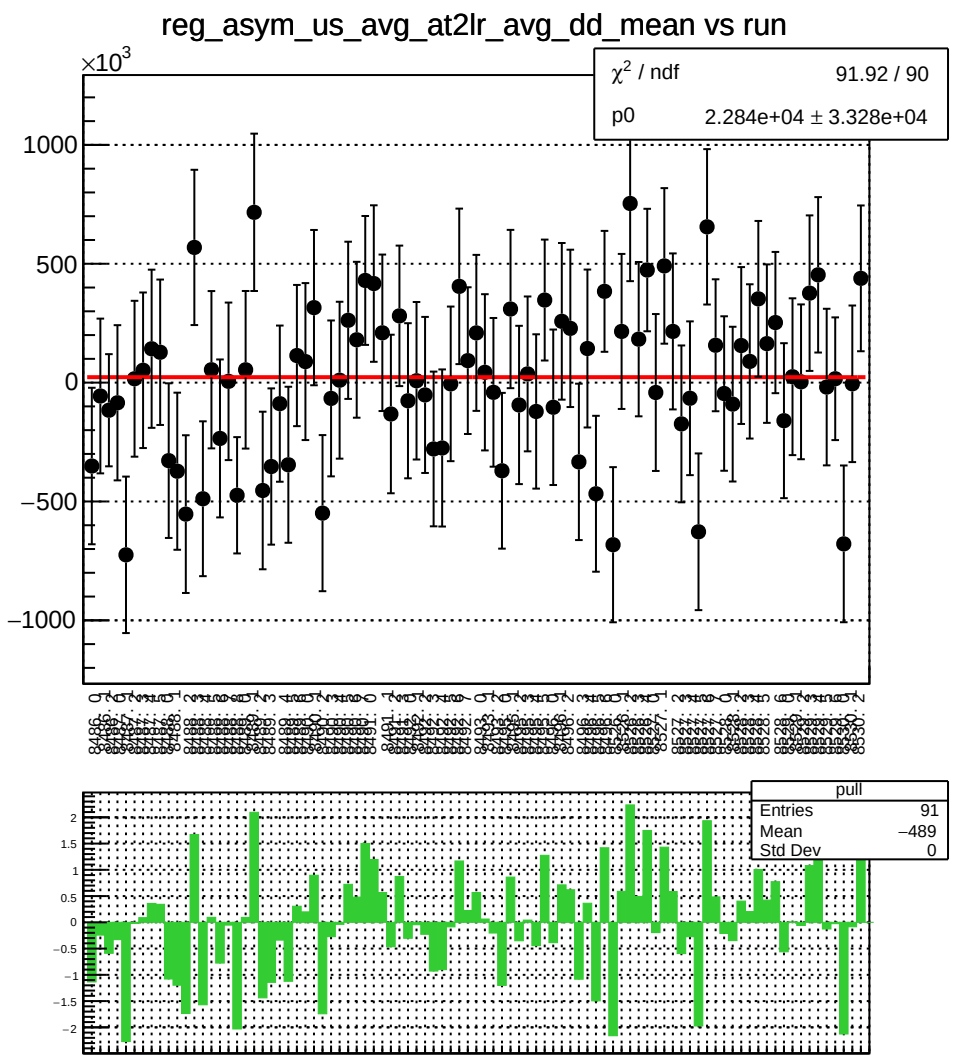

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.83 / 90
p0 0.6002 ± 0.5801
pull
Entries 91
Mean −0.2904
Std Dev 0

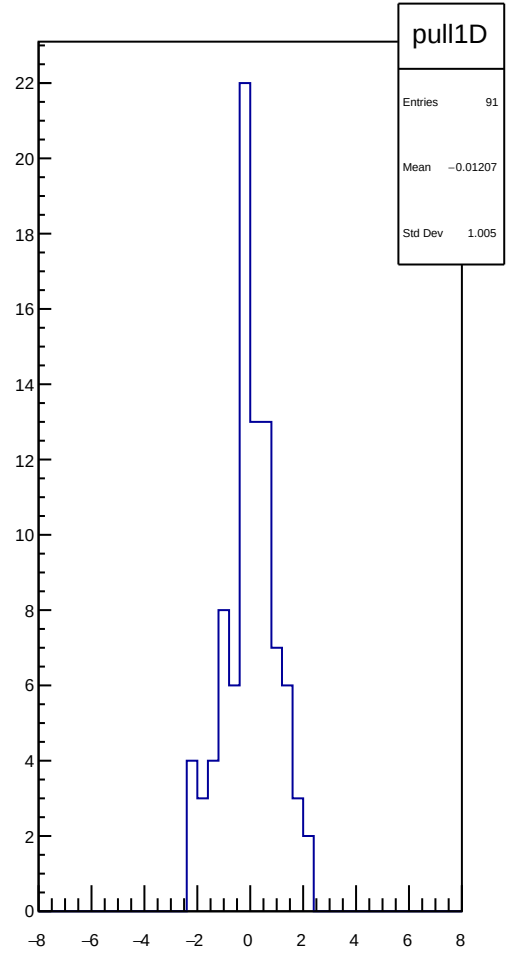

pull1D
Entries 91
Mean 0.06772
Std Dev 0.9745

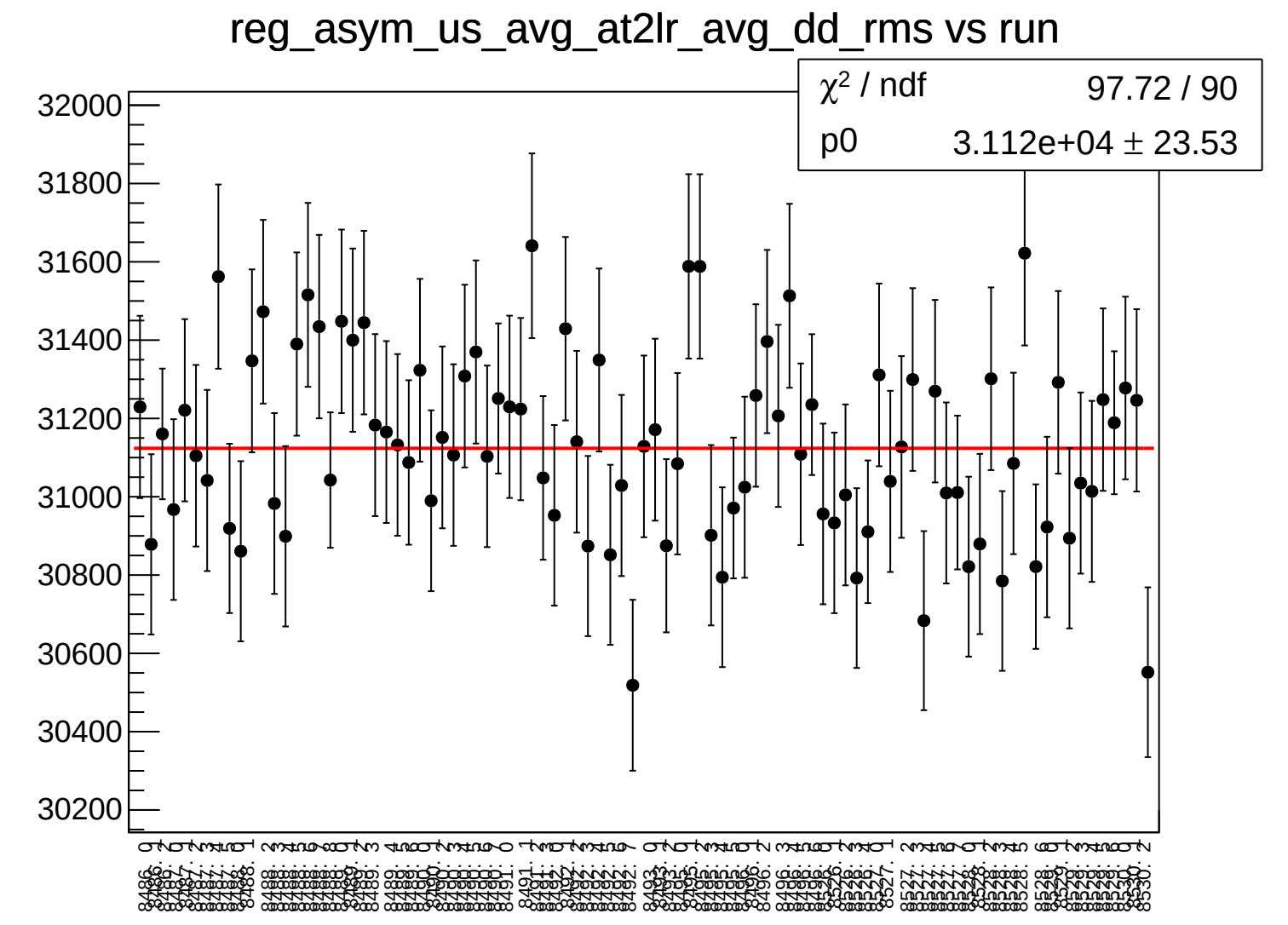

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.602e+05 / 90
p0 500.5 ± 0.4102
1200
1000
800
600
400
200

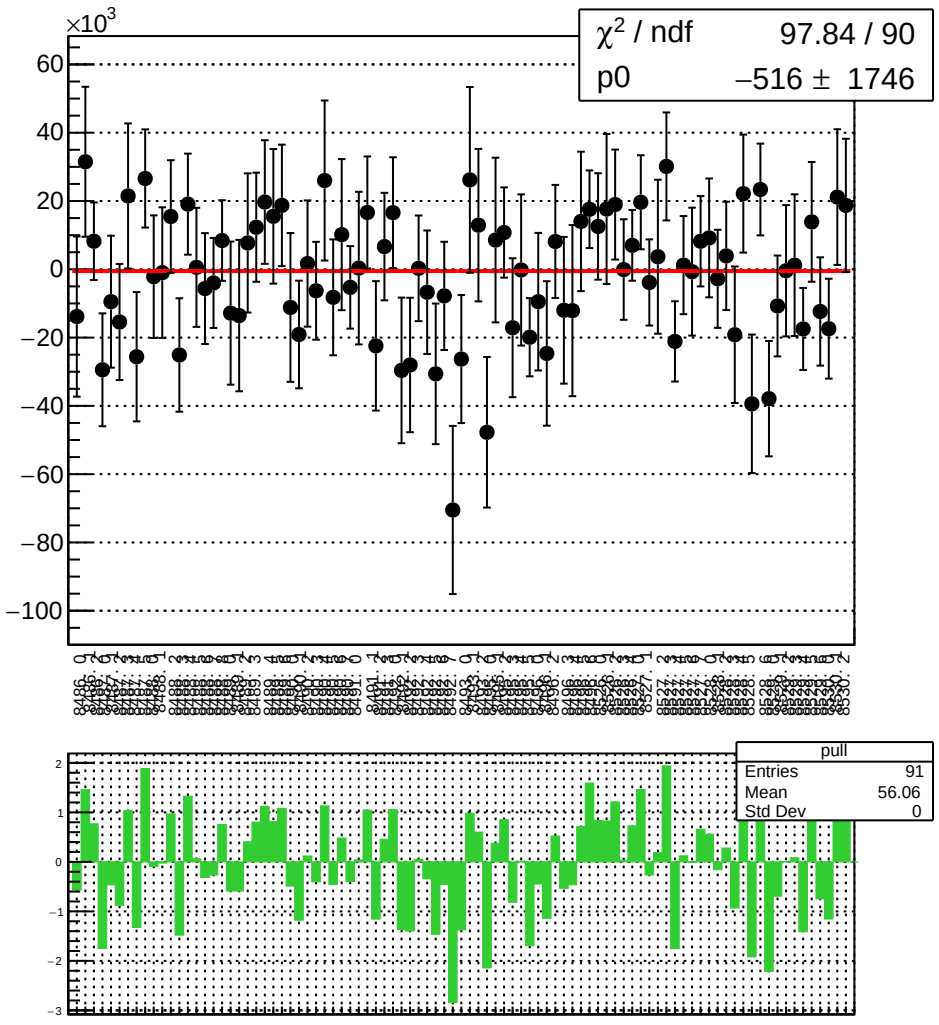

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 101 / 90
p0 −2.387e−13 ± 1.559e−13
pull
Entries 91
Mean 32.41
Std Dev 24.68
pull1D
Entries 91
Mean −0.1442
Std Dev 1.044

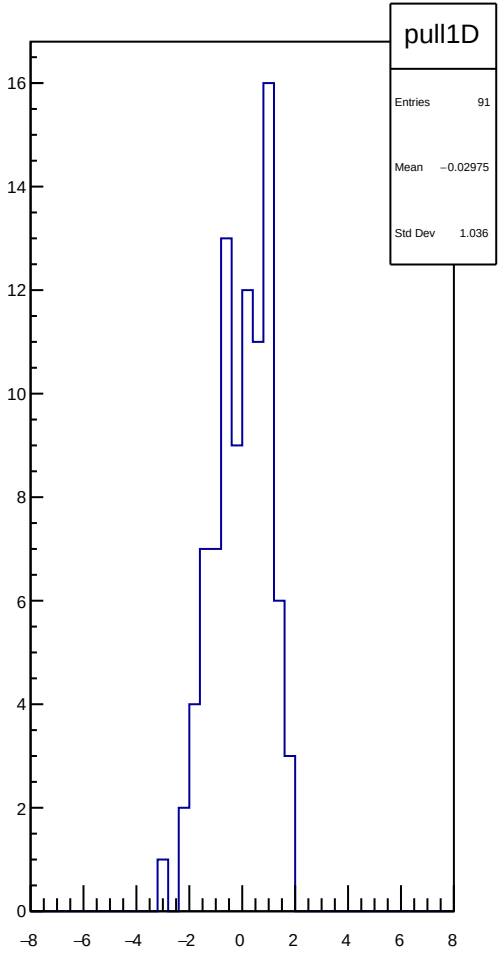

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.099e+06 / 90
p0 8.896e−11 ± 1.103e−13
3
2.5
2
1.5
1
0.5

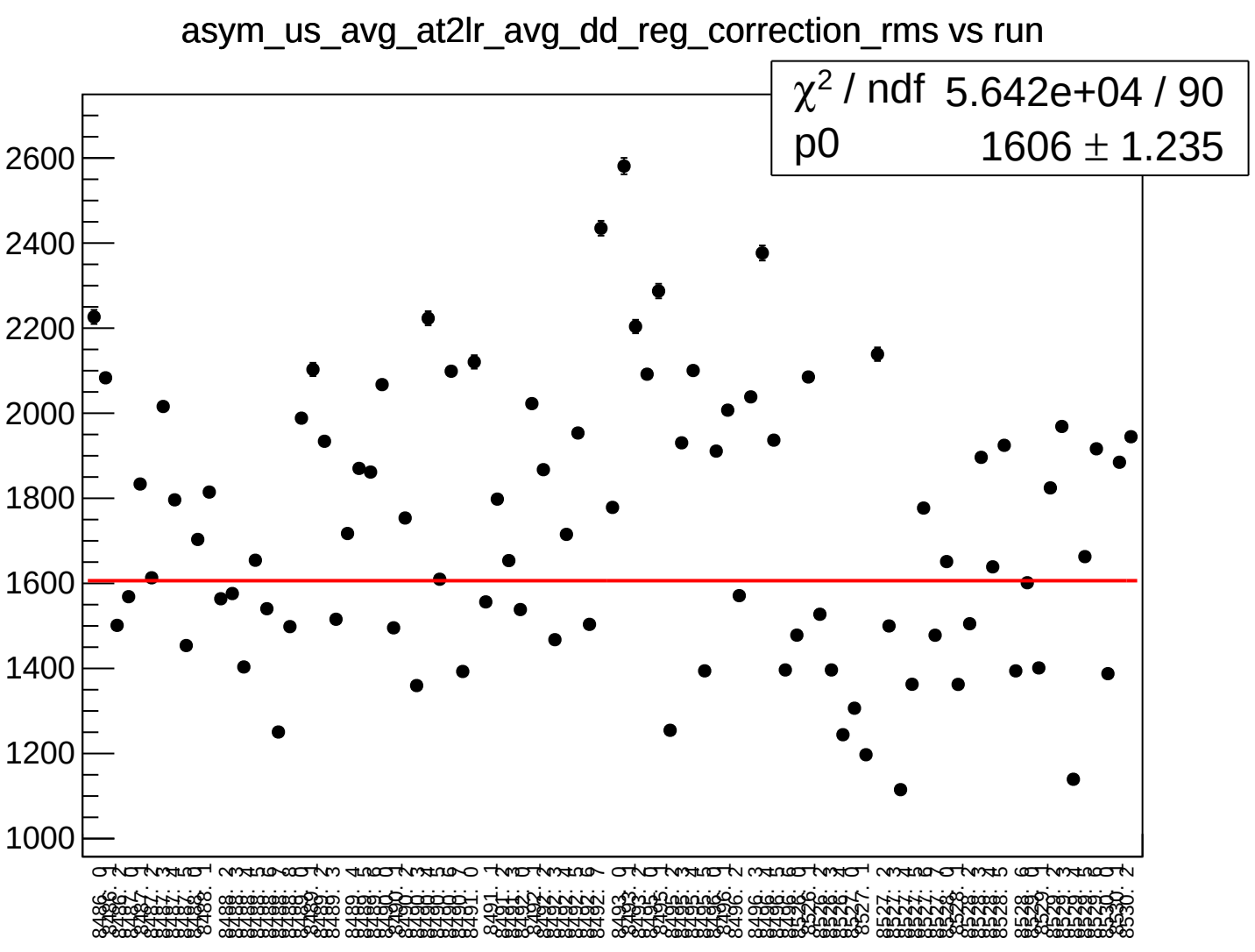

reg_asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 91.92 / 90
p0 2.284e+04 ± 3.328e+04
1000
500
0
−500
−1000
pull
Entries 91
Mean −489
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

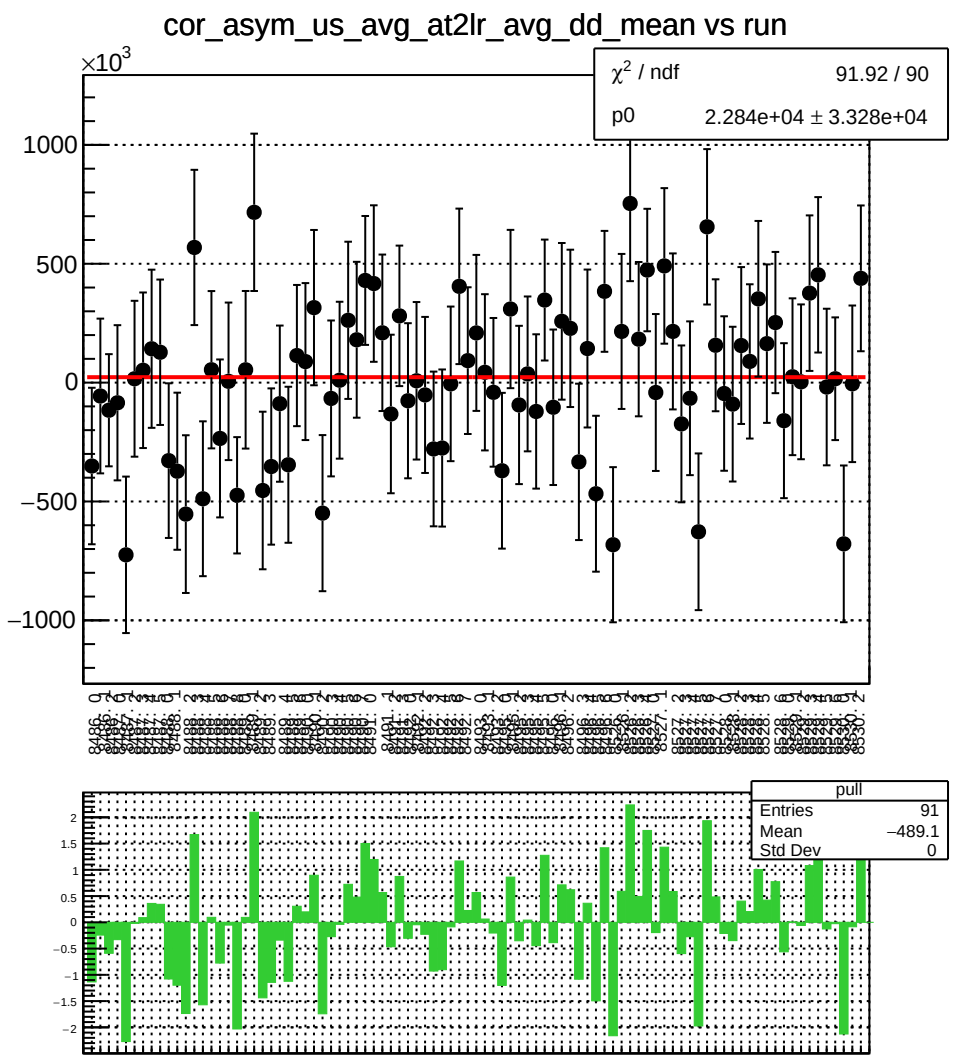

pull1D
Entries 91
Mean −0.01207
Std Dev 1.005
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

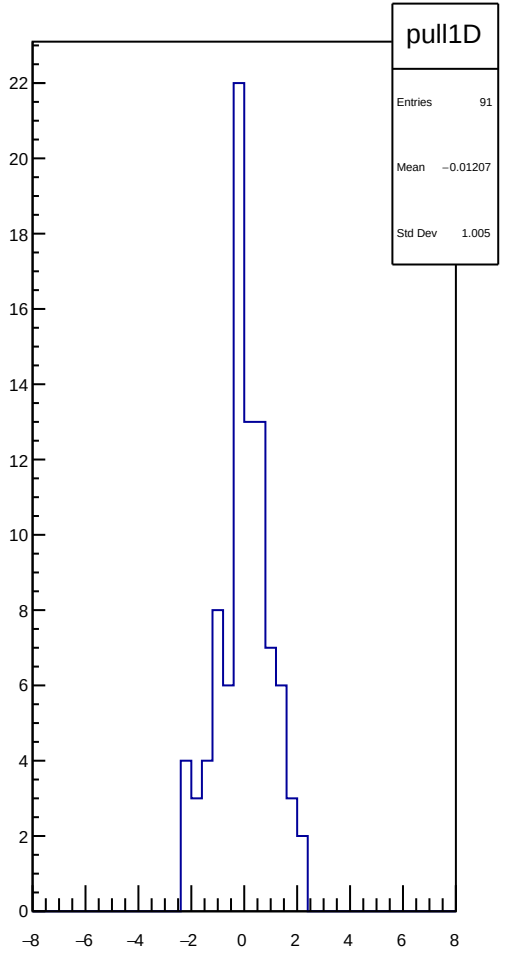

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 97.72 / 90
p0 3.112e+04 ± 23.53
32000
31800
31600
31400
31200
31000
30800
30600
30400
30200

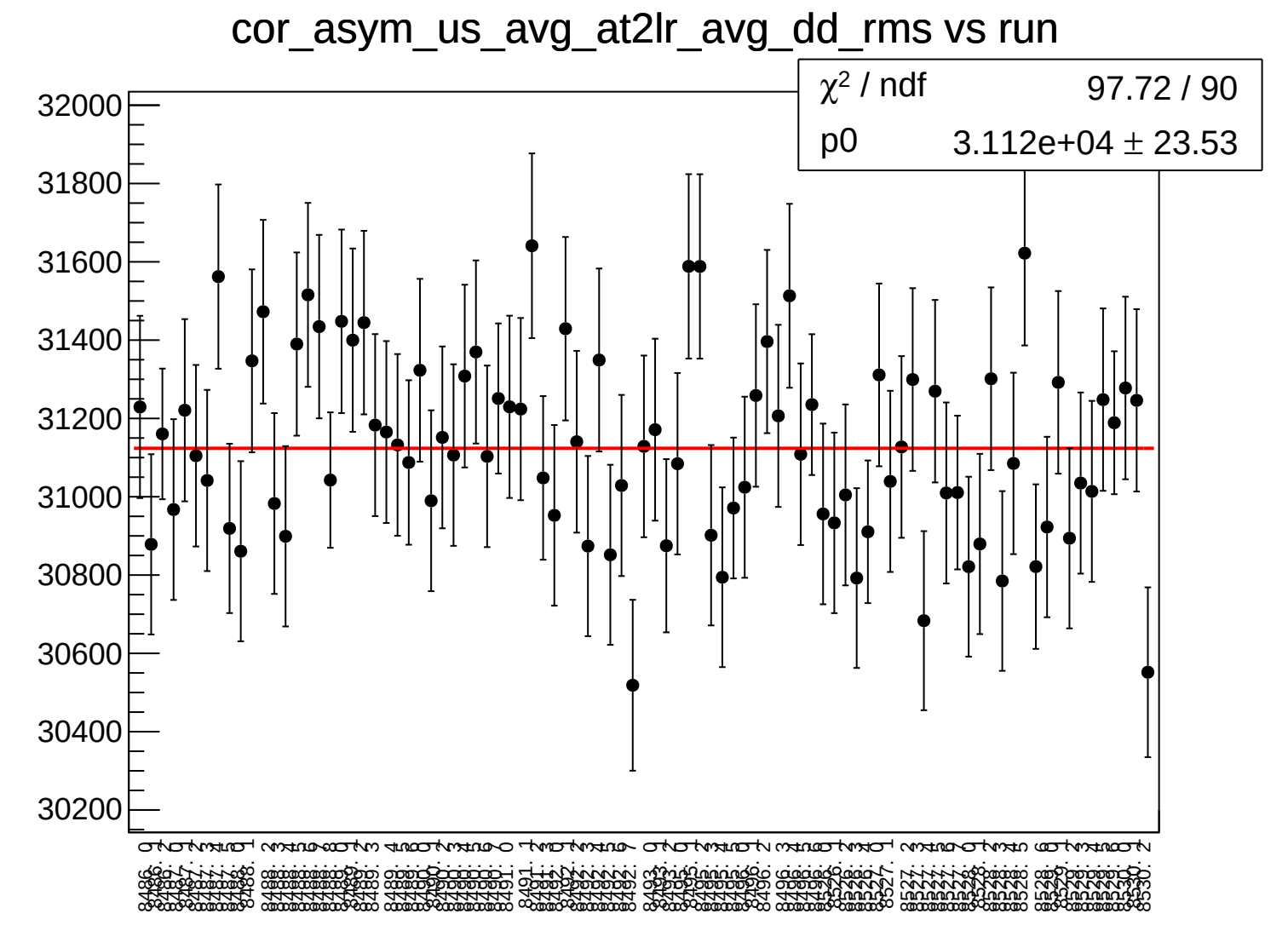

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 97.84 / 90
p0 −516 ± 1746
pull
Entries 91
Mean 56.06
Std Dev 0

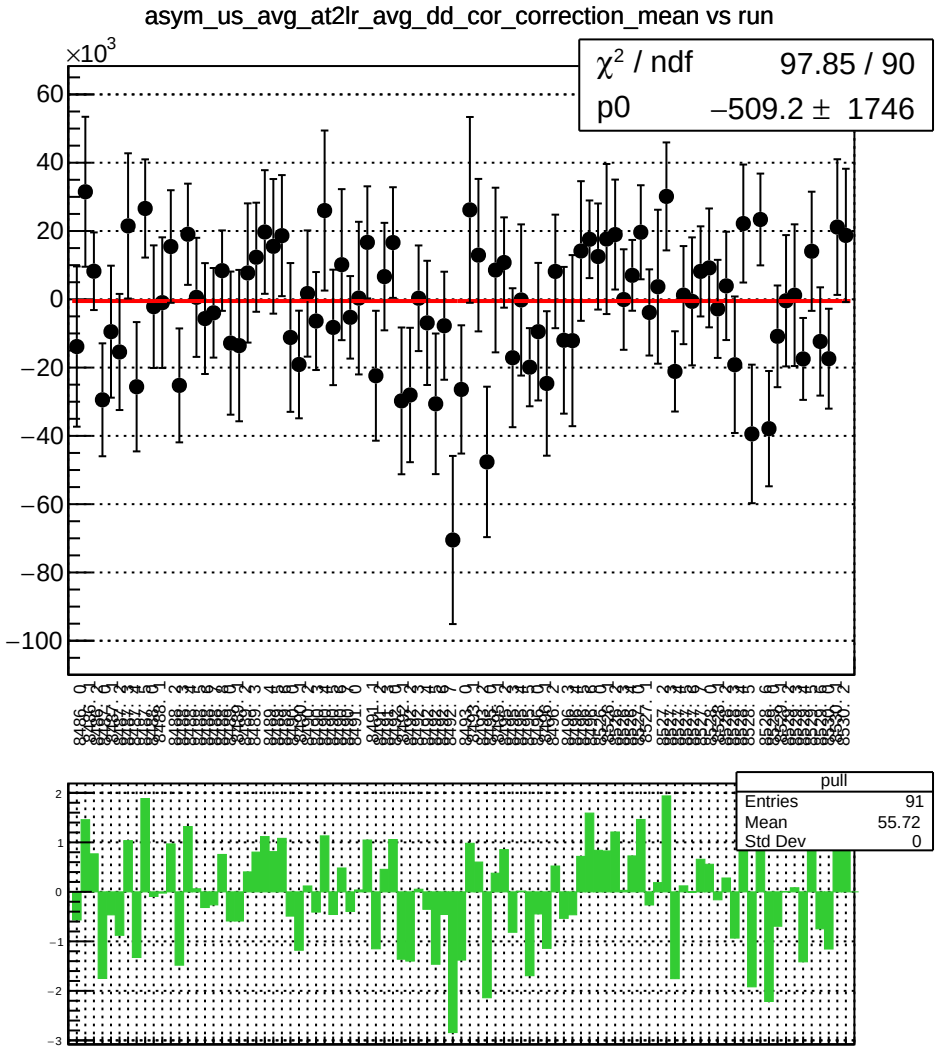

pull1D
Entries 91
Mean −0.02975
Std Dev 1.036

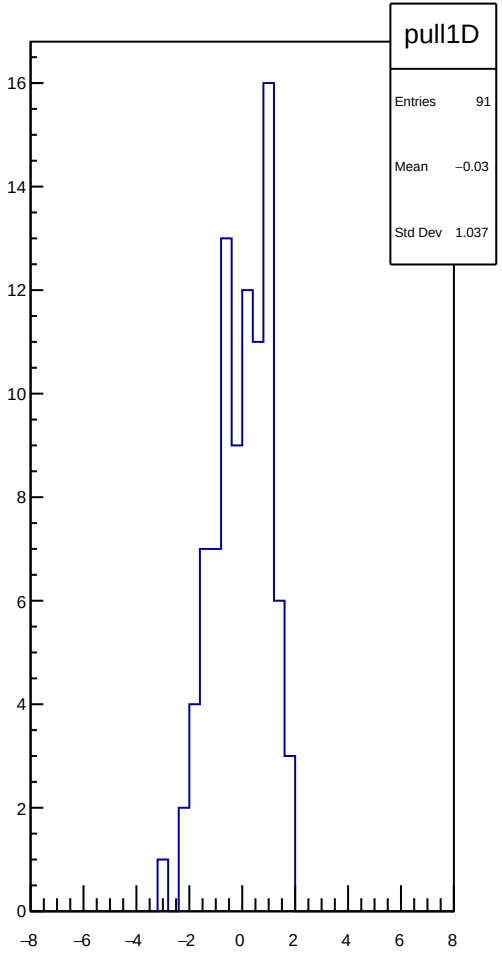

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 5.642e+04 / 90
p0 1606 ± 1.235
2600
2400
2200
2000
1800
1600
1400
1200
1000

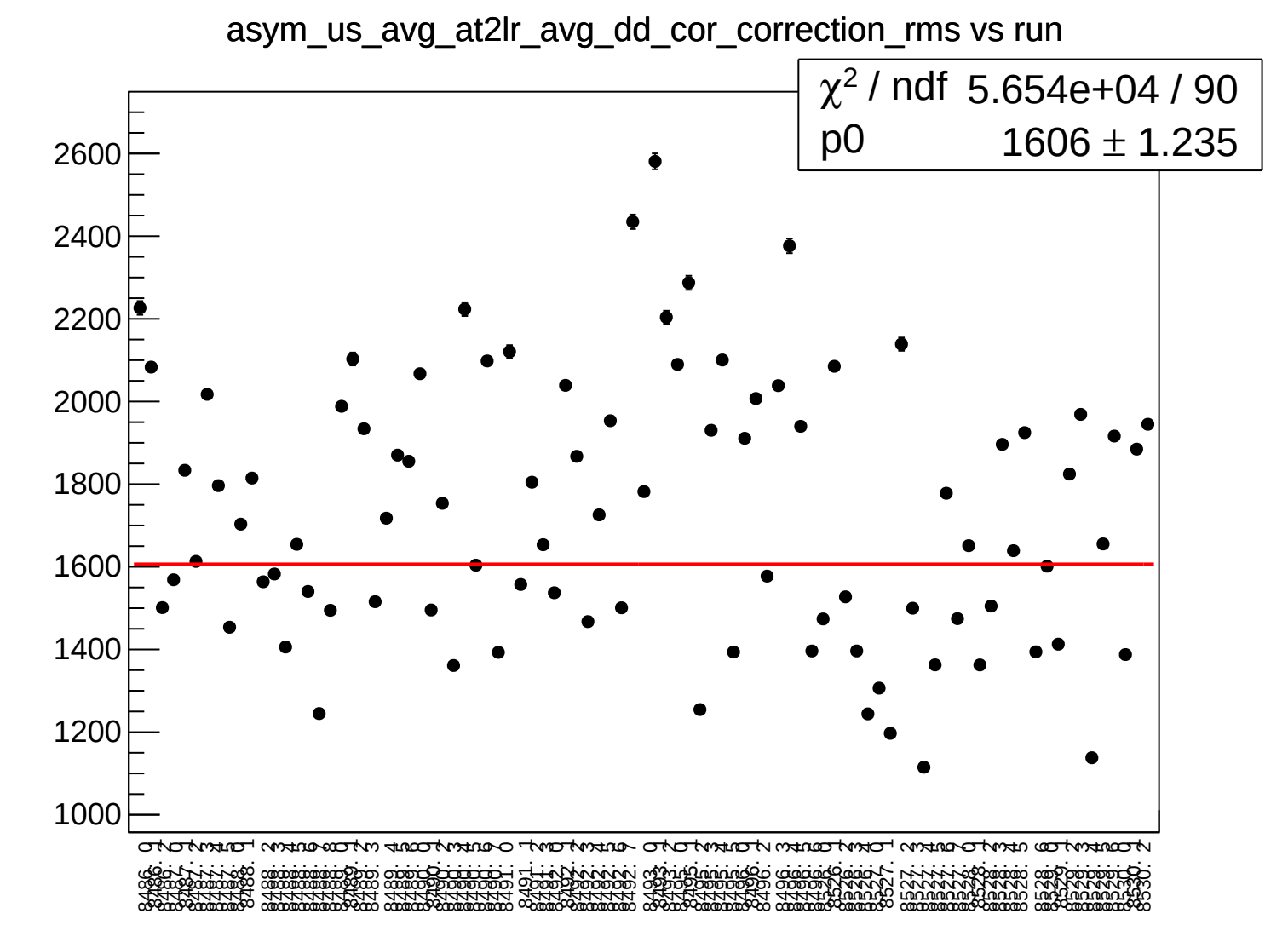

cor_asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 91.92 / 90
p0 2.284e+04 ± 3.328e+04
1000
500
0
−500
−1000
pull
Entries 91
Mean −489.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

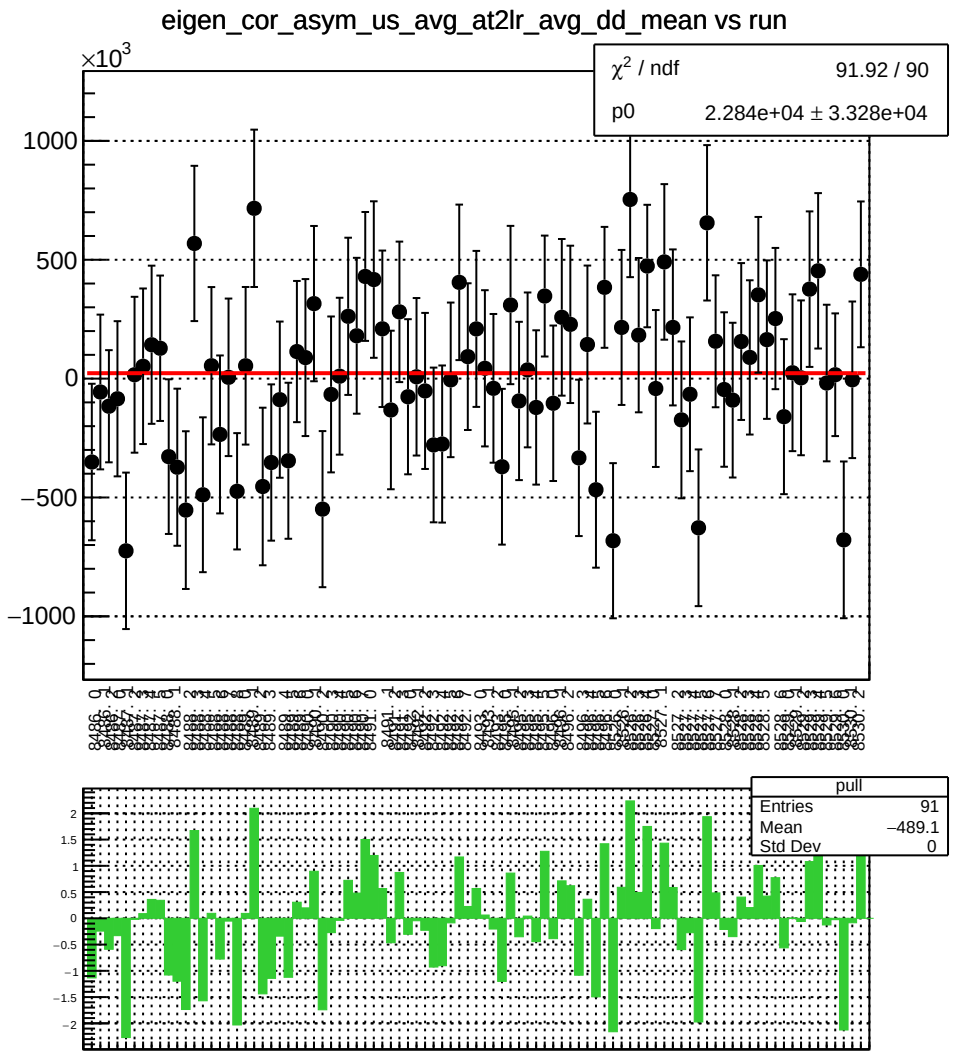

pull1D
Entries 91
Mean −0.01207
Std Dev 1.005
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

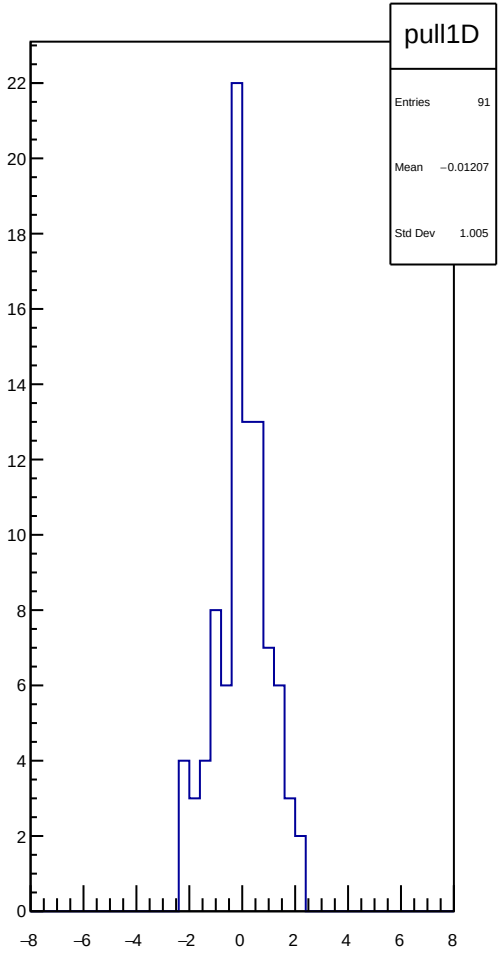

cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 97.72 / 90
p0 3.112e+04 ± 23.53
32000
31800
31600
31400
31200
31000
30800
30600
30400
30200

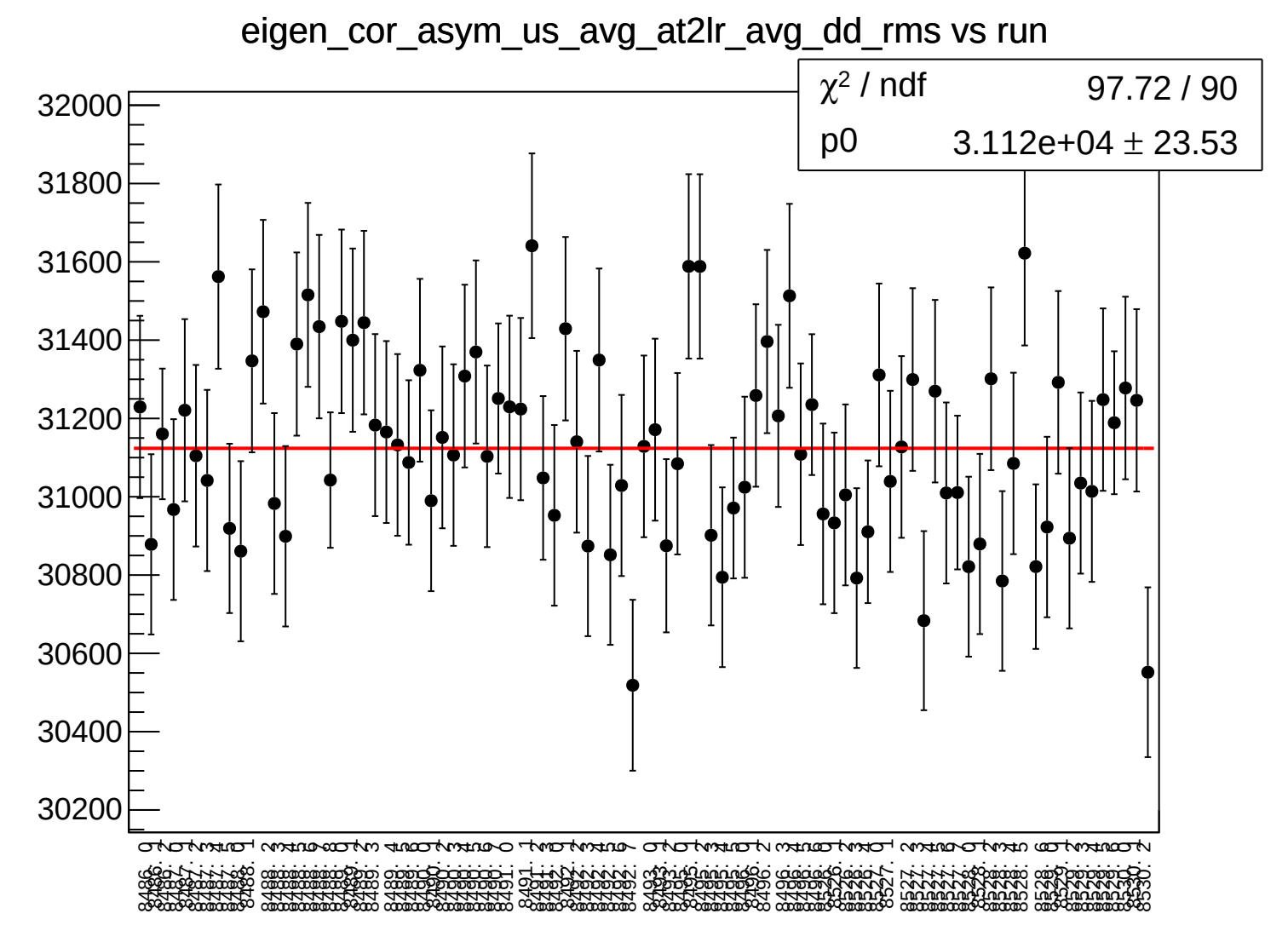

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 97.85 / 90
p0 −509.2 ± 1746
pull
Entries 91
Mean 55.72
Std Dev 0

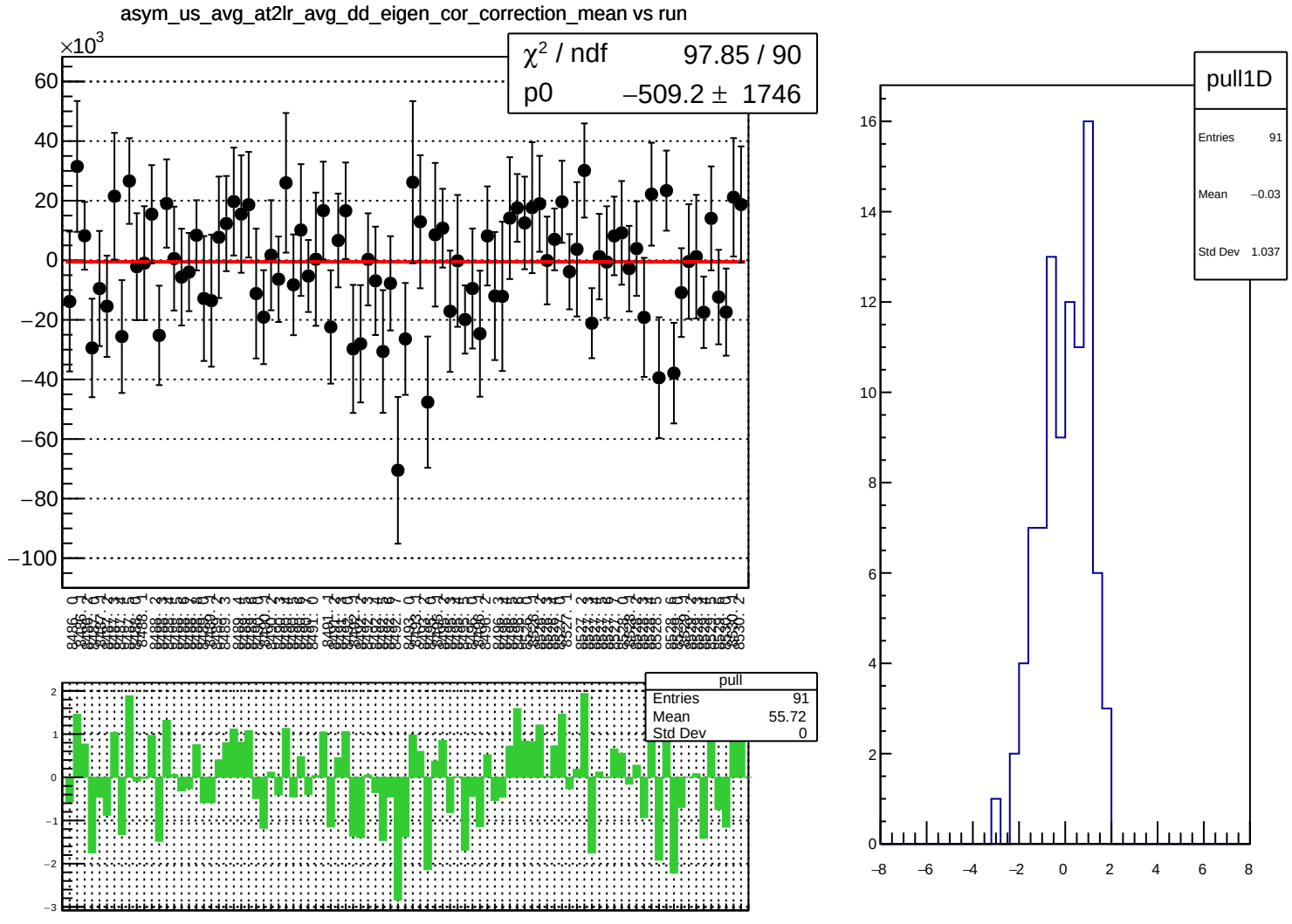

pull1D
Entries 91
Mean −0.03
Std Dev 1.037

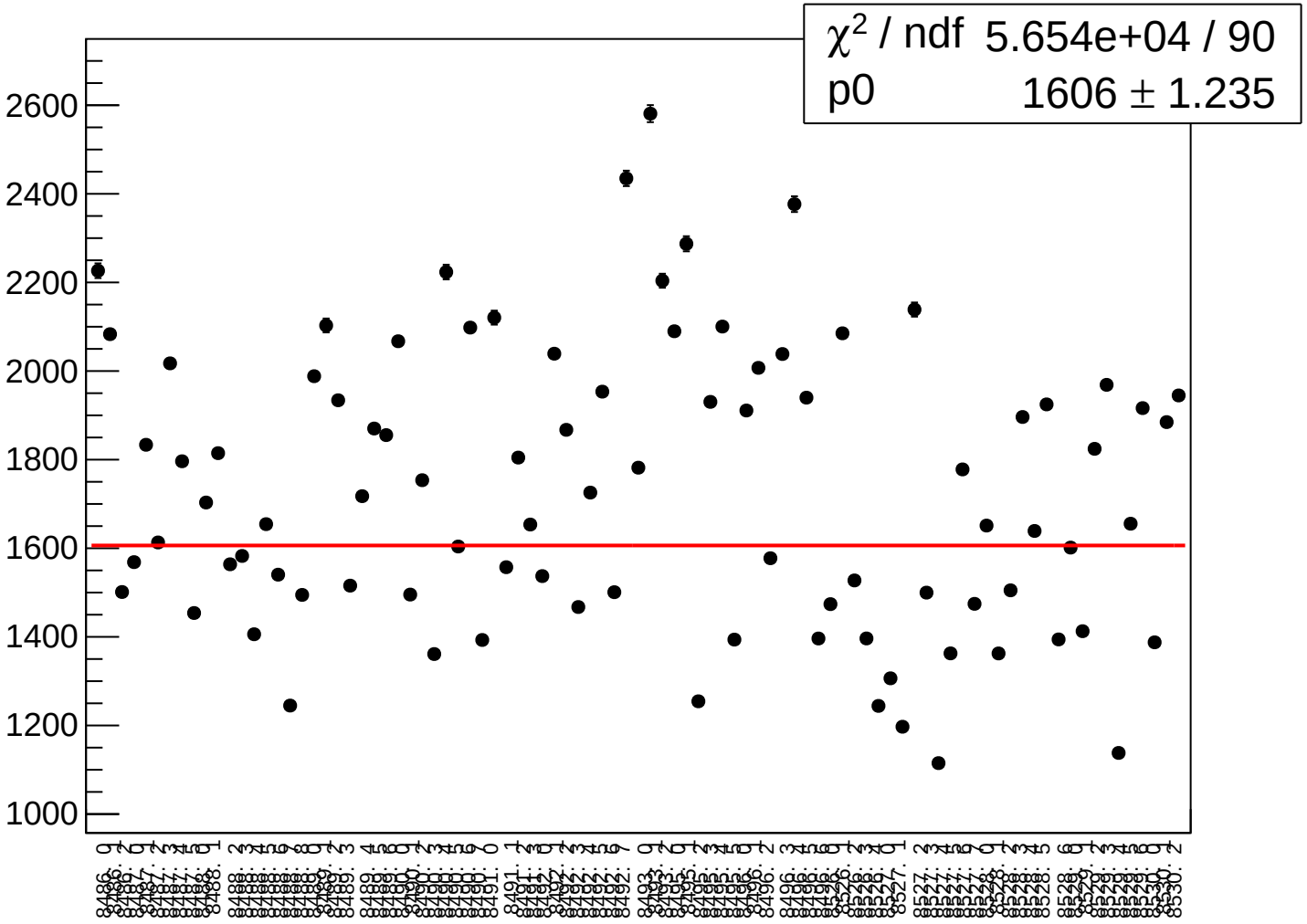

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ² / ndf 5.654e+04 / 90
p0 1606 ± 1.235
2600
2400
2200
2000
1800
1600
1400
1200
1000

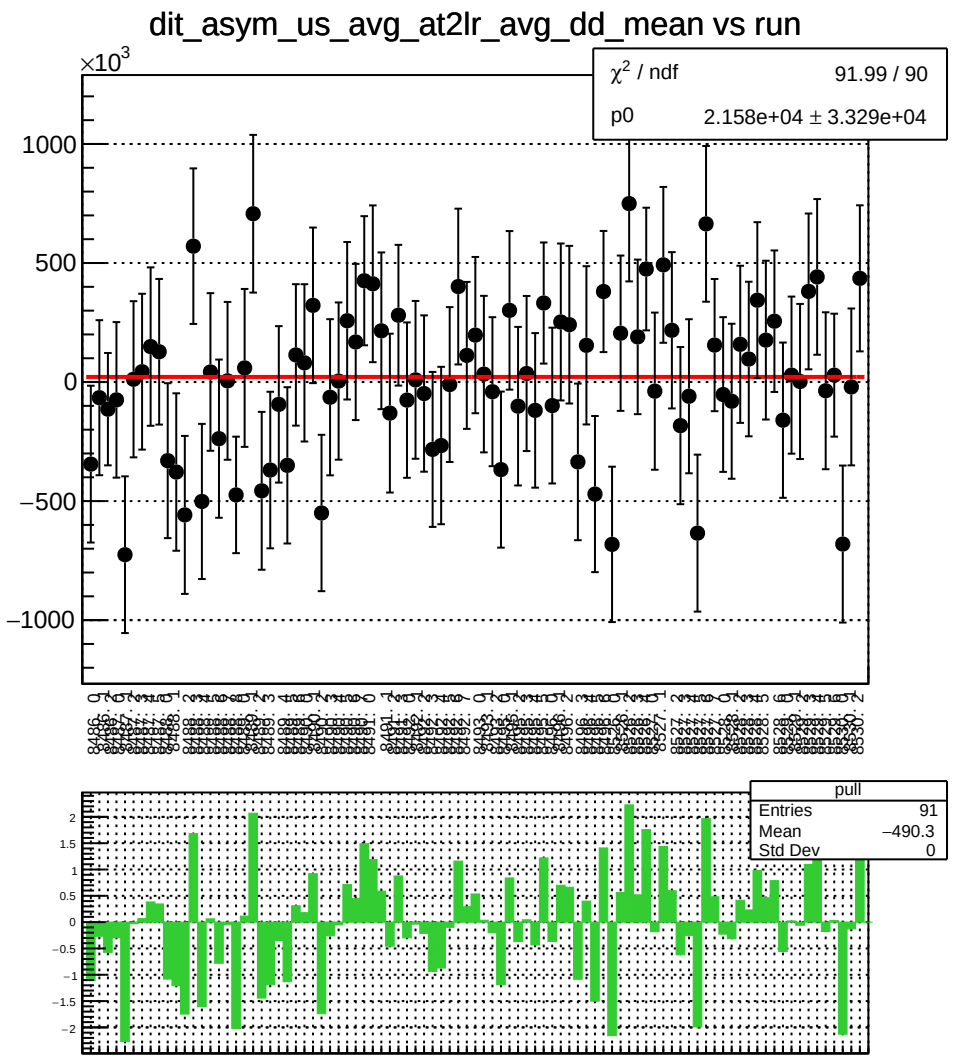

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 91.92 / 90
p0 2.284e+04 ± 3.328e+04
1000
500
0
−500
−1000
pull
Entries 91
Mean −489.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

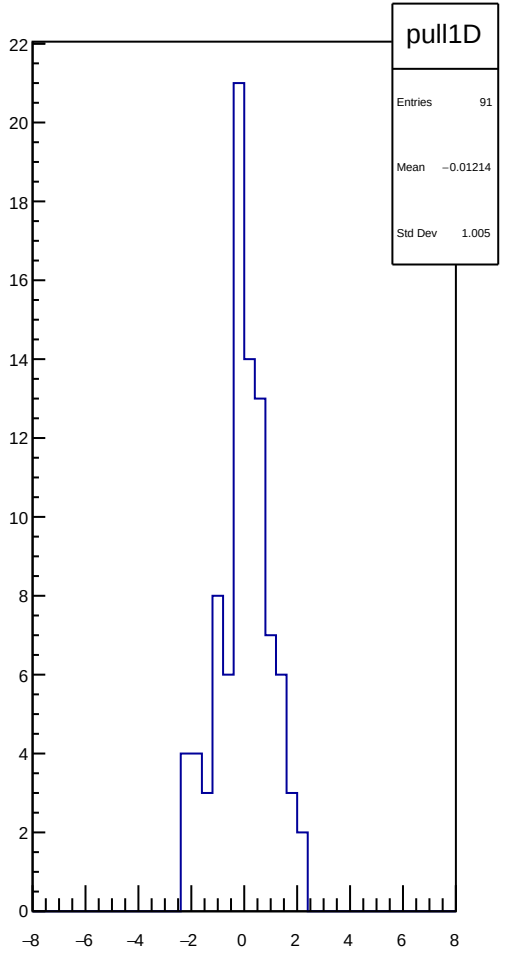

pull1D
Entries 91
Mean −0.01207
Std Dev 1.005
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

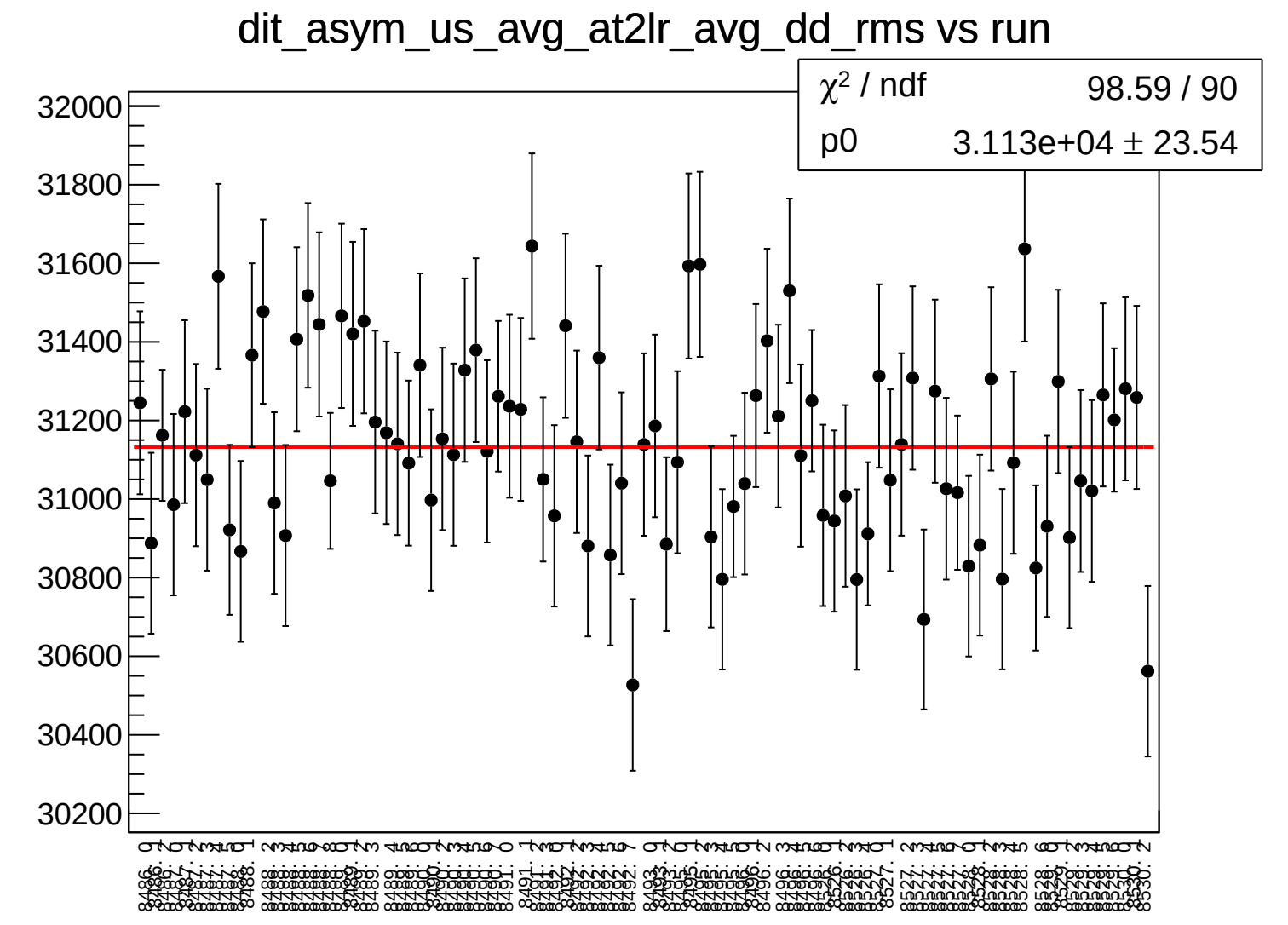

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 97.72 / 90
p0 3.112e+04 ± 23.53
32000
31800
31600
31400
31200
31000
30800
30600
30400
30200

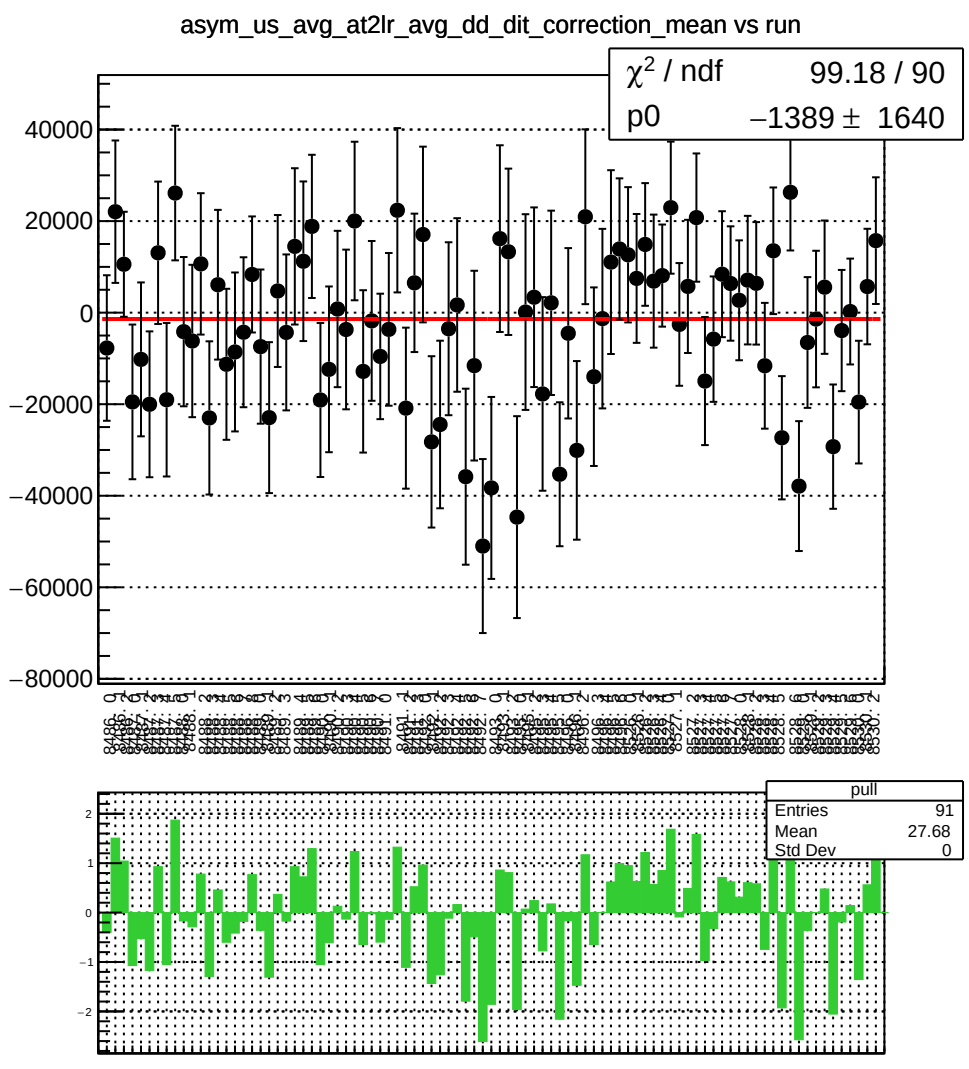

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 97.85 / 90
p0 −509.2 ± 1746
pull
Entries 91
Mean 55.72
Std Dev 0
pull1D
Entries 91
Mean −0.03
Std Dev 1.037

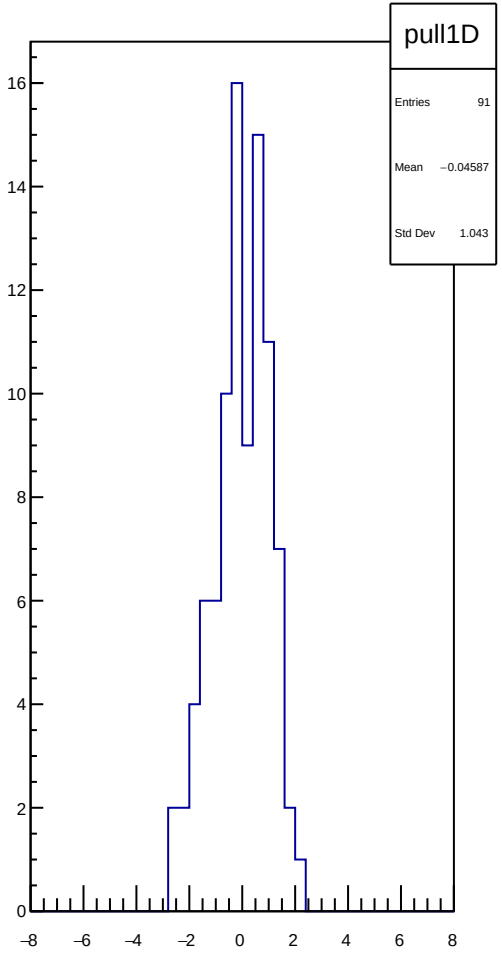

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 5.654e+04 / 90
p0 1606 ± 1.235
2600
2400
2200
2000
1800
1600
1400
1200
1000

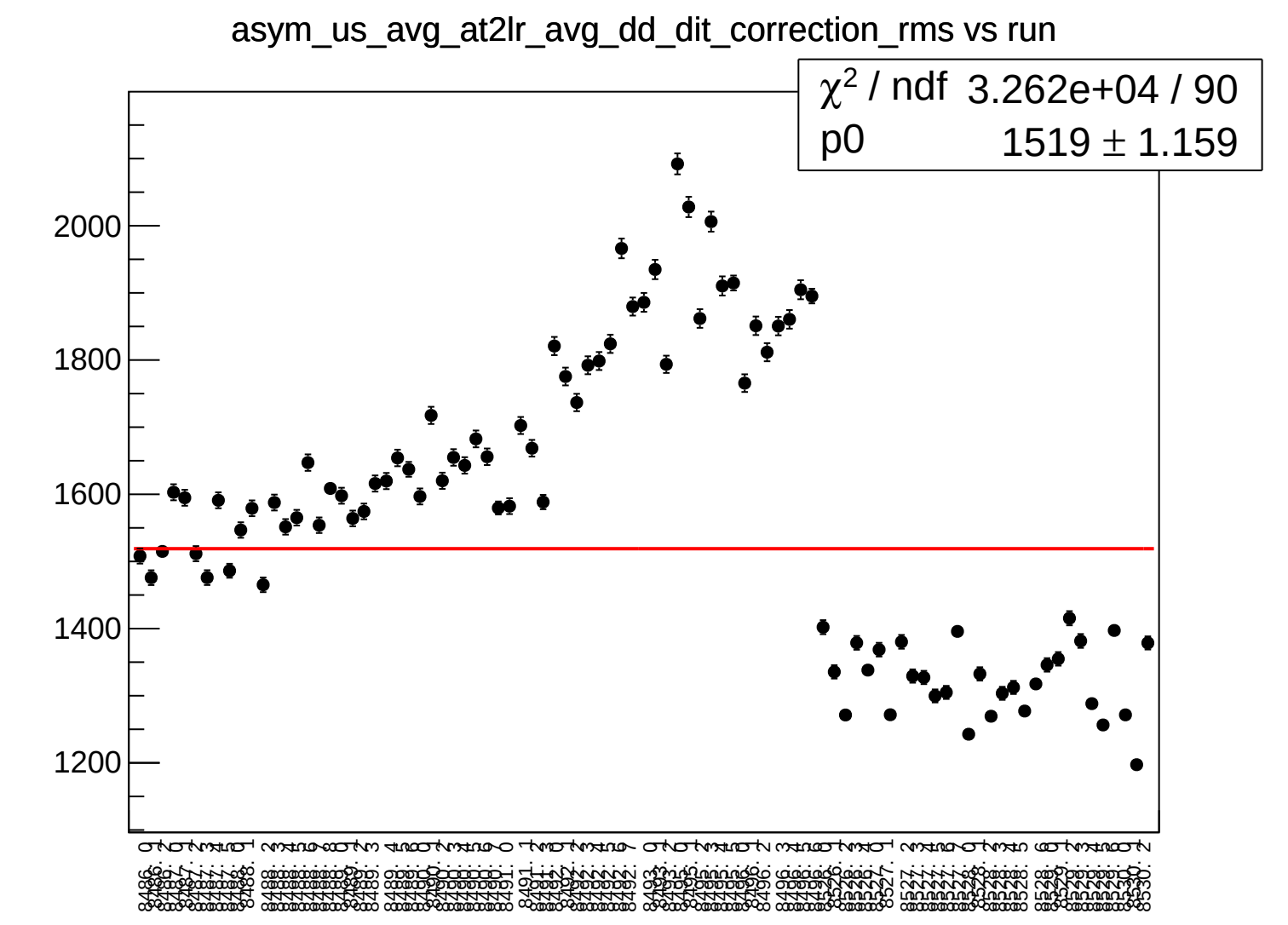

dit_asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 91.99 / 90
p0 2.158e+04 ± 3.329e+04
1000
500
0
−500
−1000
pull
Entries 91
Mean −490.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

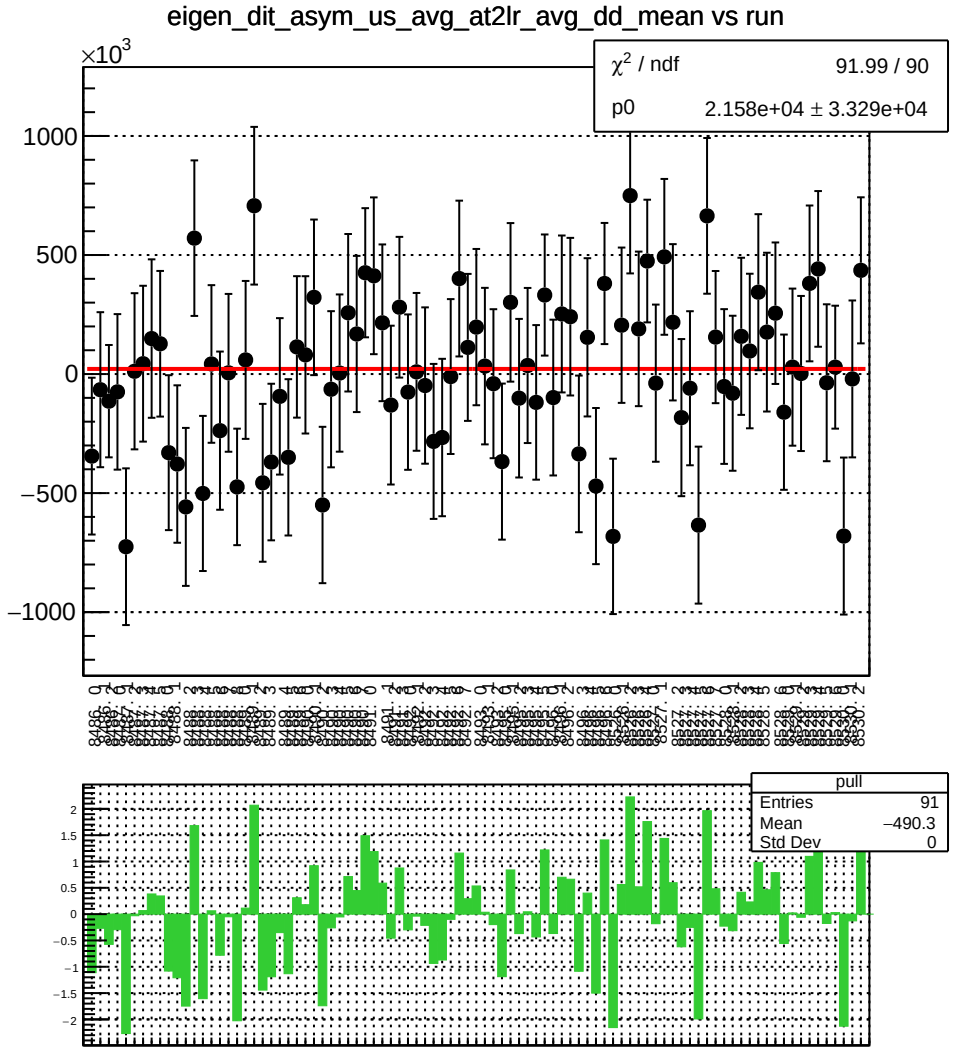

pull1D
Entries 91
Mean −0.01214
Std Dev 1.005
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

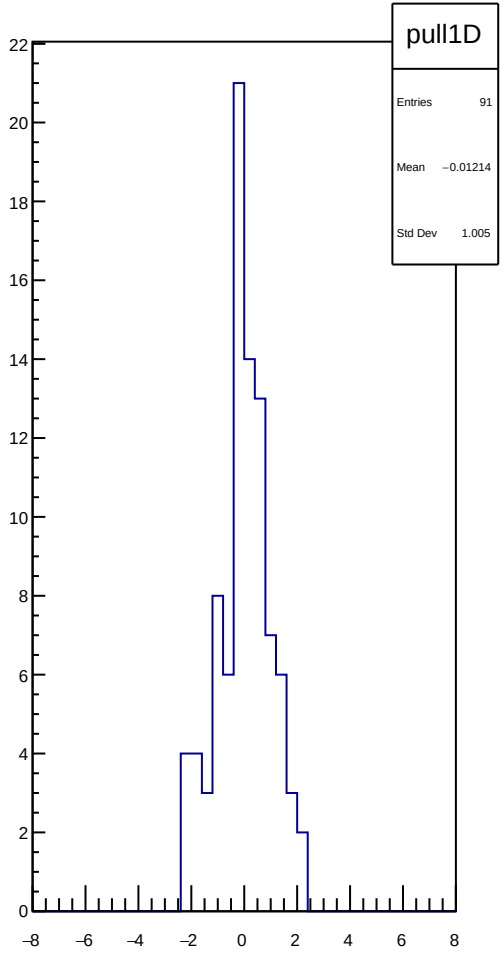

dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 98.59 / 90
p0 3.113e+04 ± 23.54
32000
31800
31600
31400
31200
31000
30800
30600
30400
30200

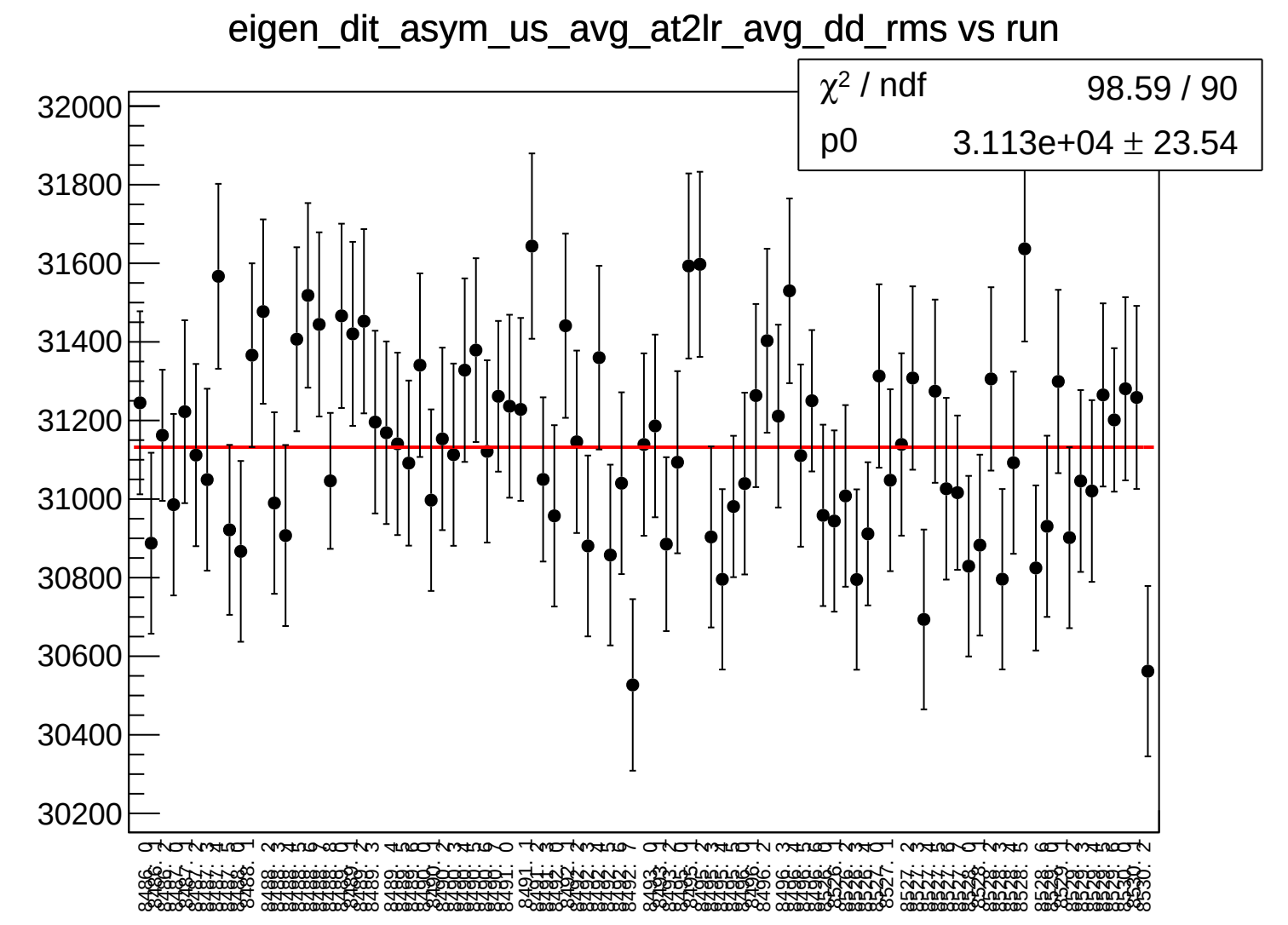

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
χ² / ndf 99.18 / 90
p0 −1389 ± 1640
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean 27.68
Std Dev 0
2
1
0
−1
−2

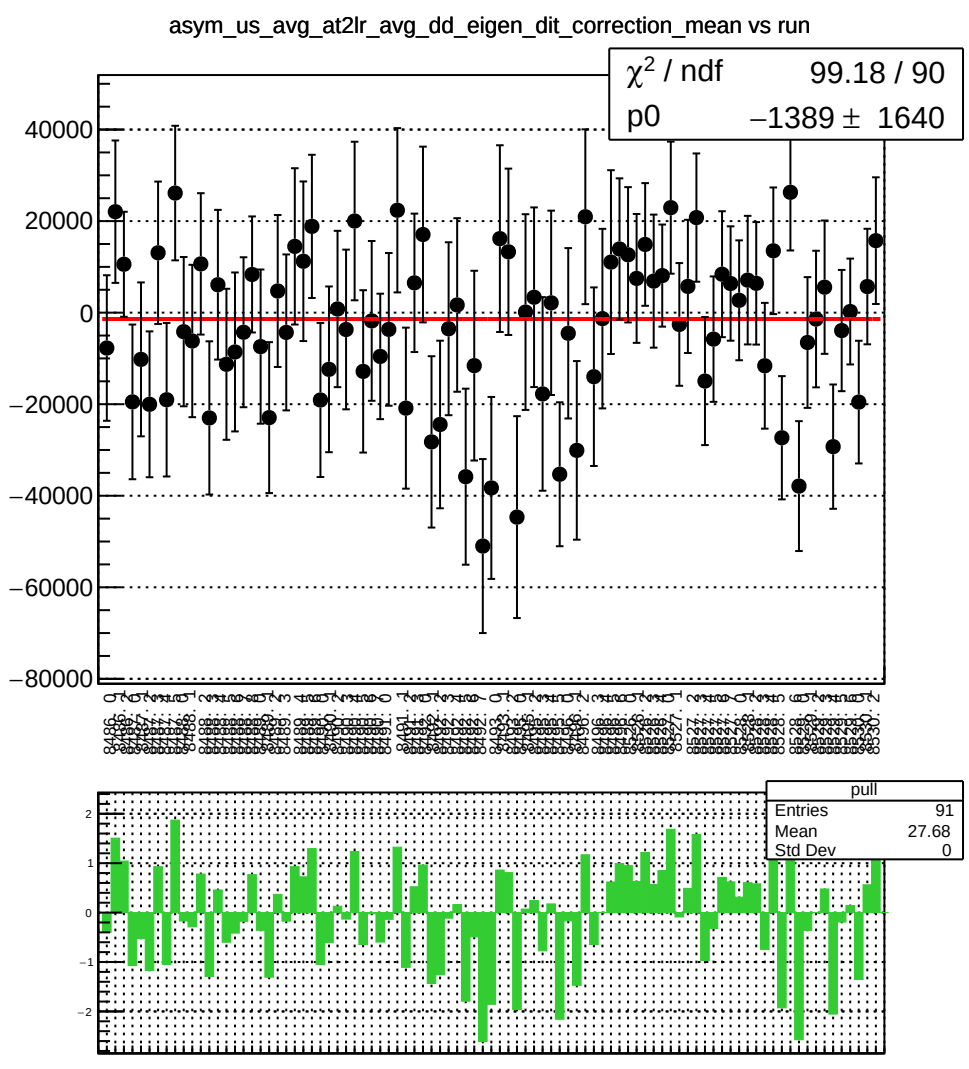

pull1D
Entries 91
Mean −0.04587
Std Dev 1.043
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

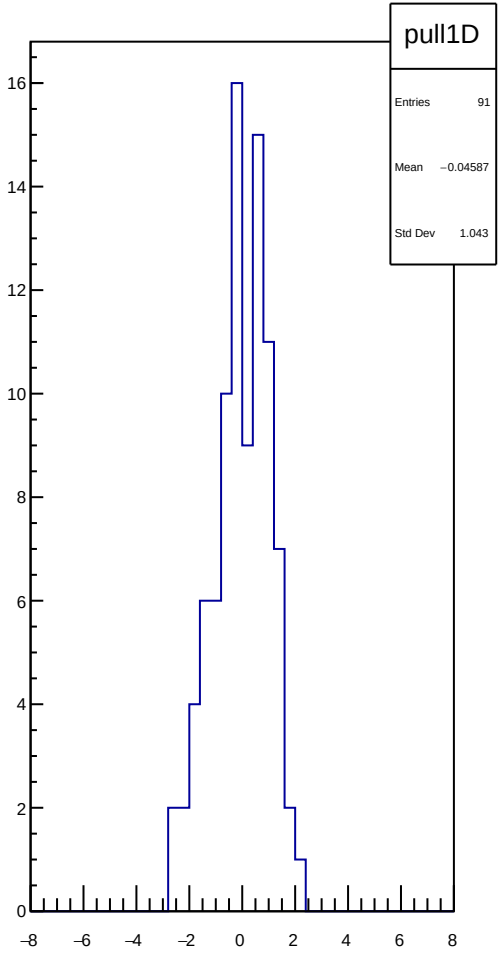

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 3.262e+04 / 90
p0 1519 ± 1.159
2000
1800
1600
1400
1200

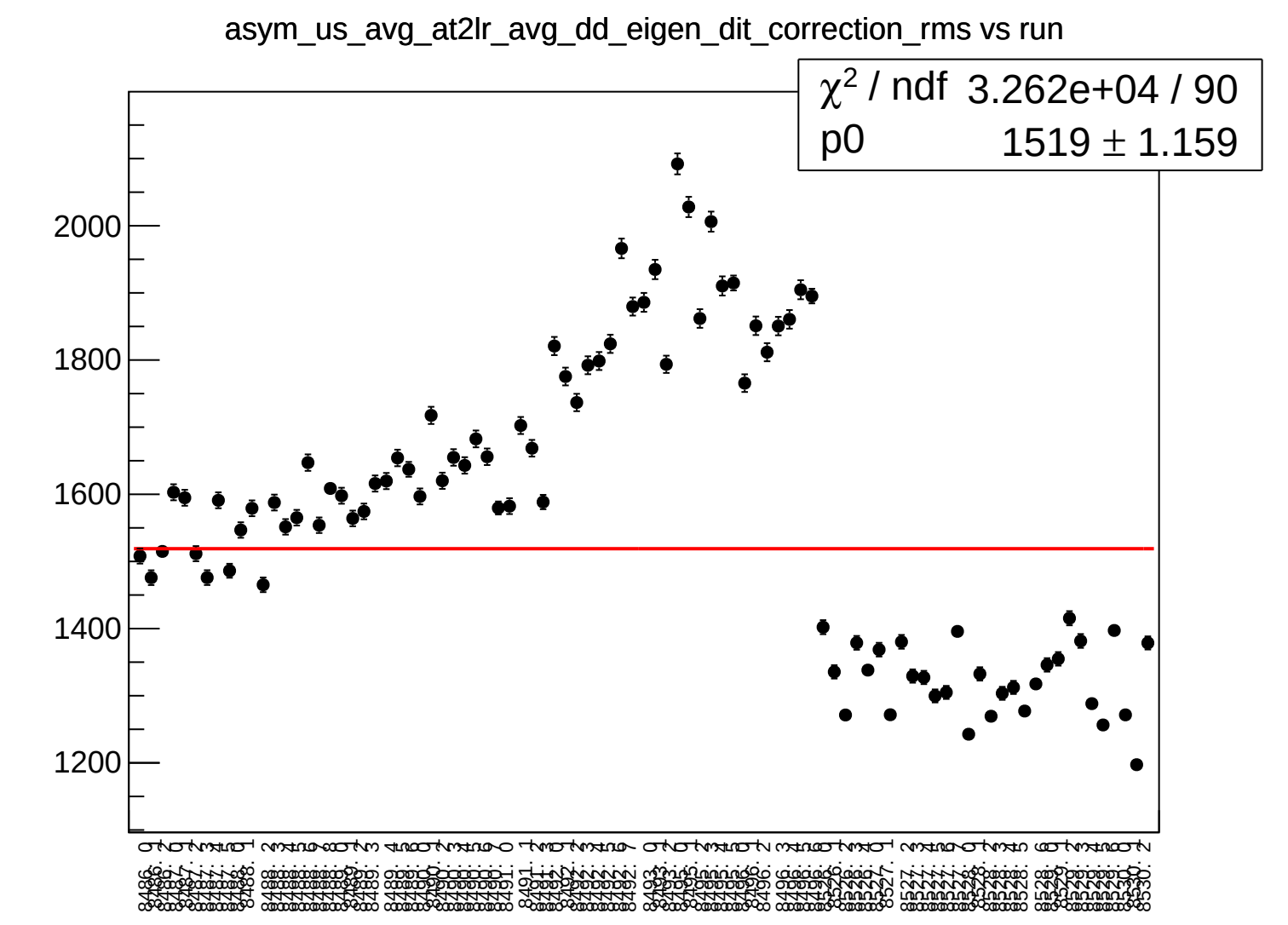

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 91.99 / 90
p0 2.158e+04 ± 3.329e+04
1000
500
0
−500
−1000
pull
Entries 91
Mean −490.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

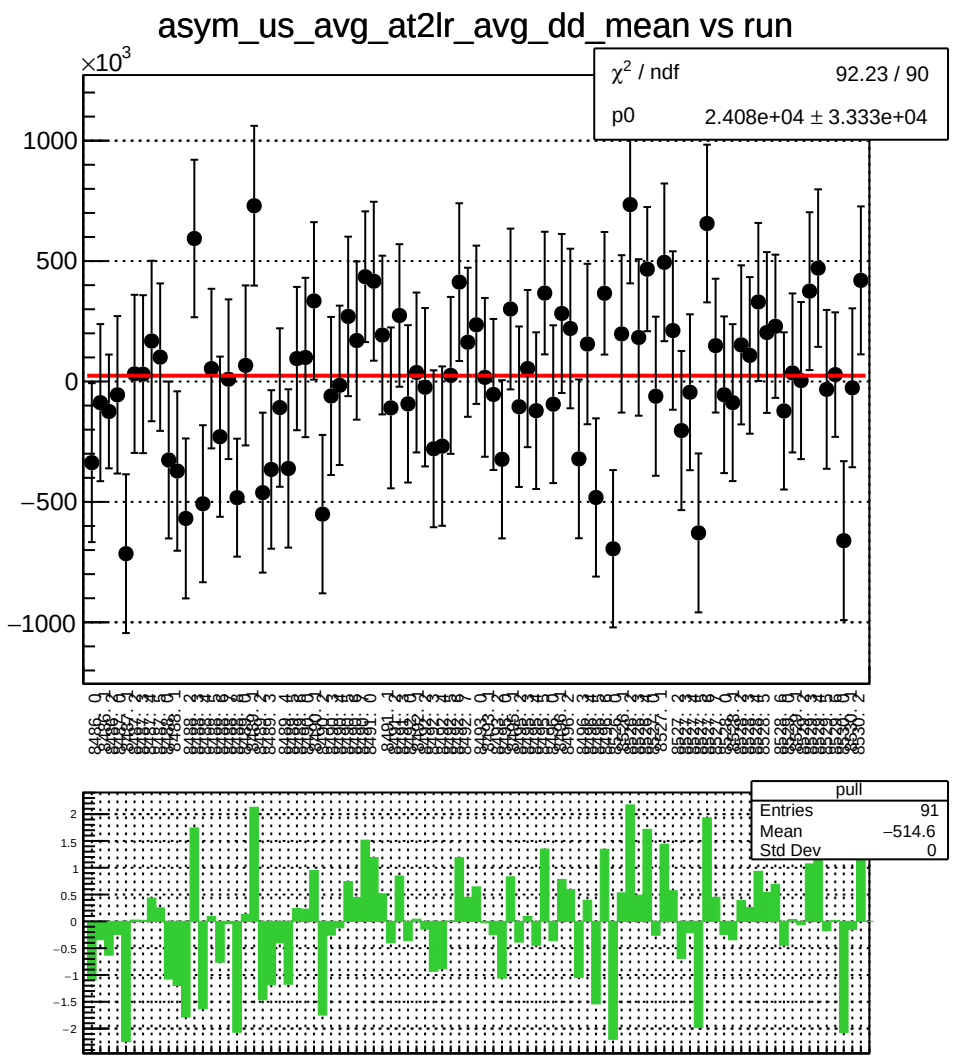

pull1D
Entries 91
Mean −0.01214
Std Dev 1.005
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

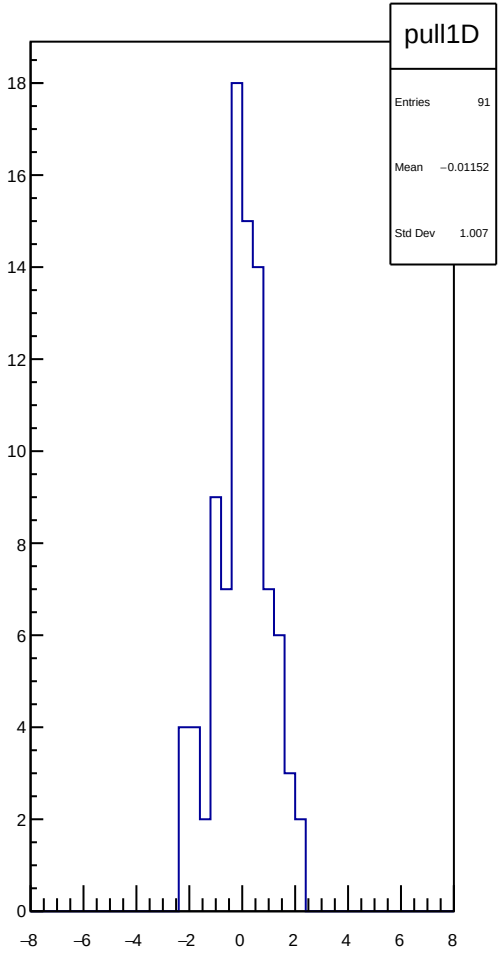

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 98.59 / 90
p0 3.113e+04 ± 23.54
32000
31800
31600
31400
31200
31000
30800
30600
30400
30200

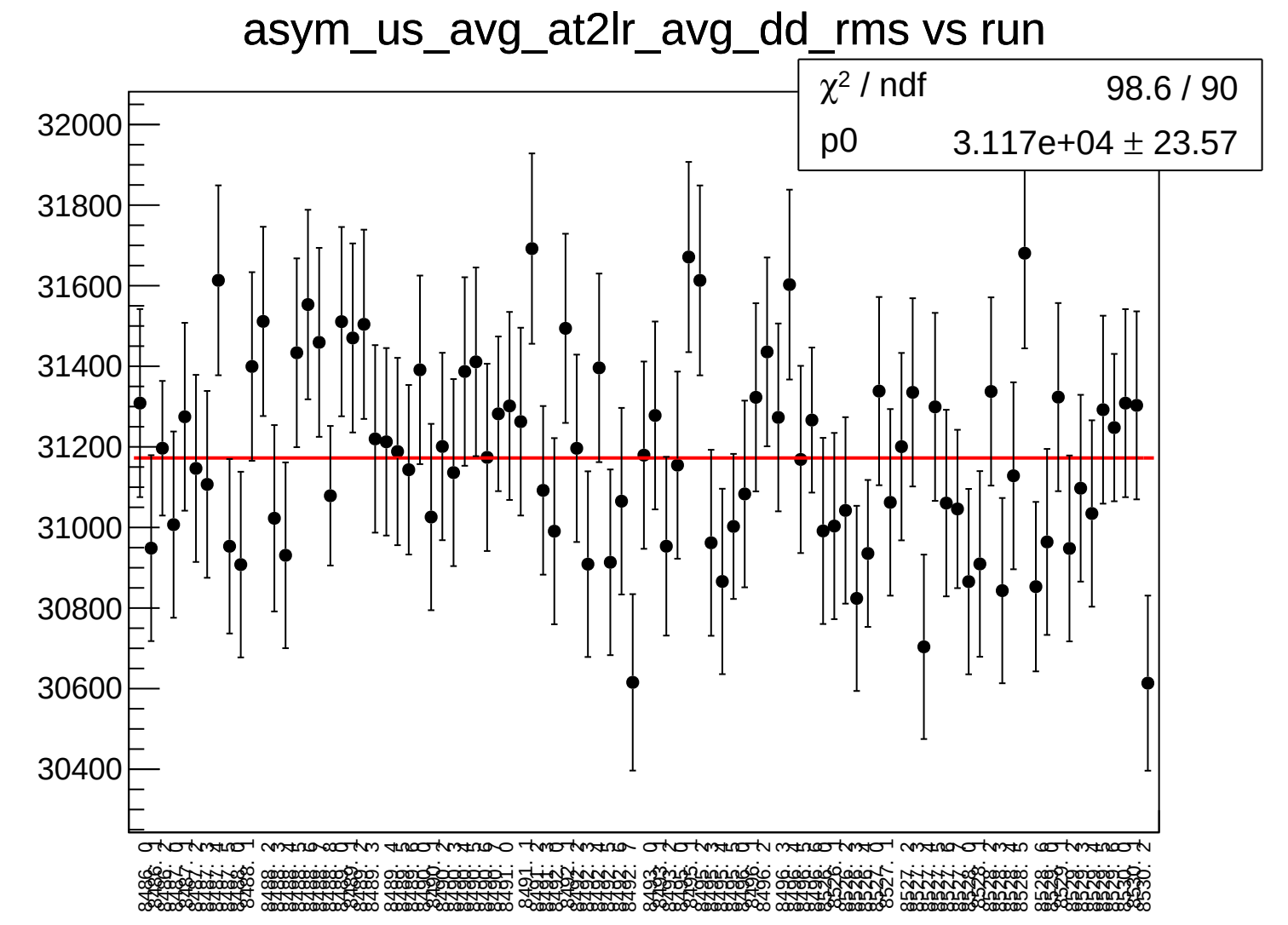

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 99.18 / 90
p0 −1389 ± 1640
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean 27.68
Std Dev 0
2
1
0
−1
−2

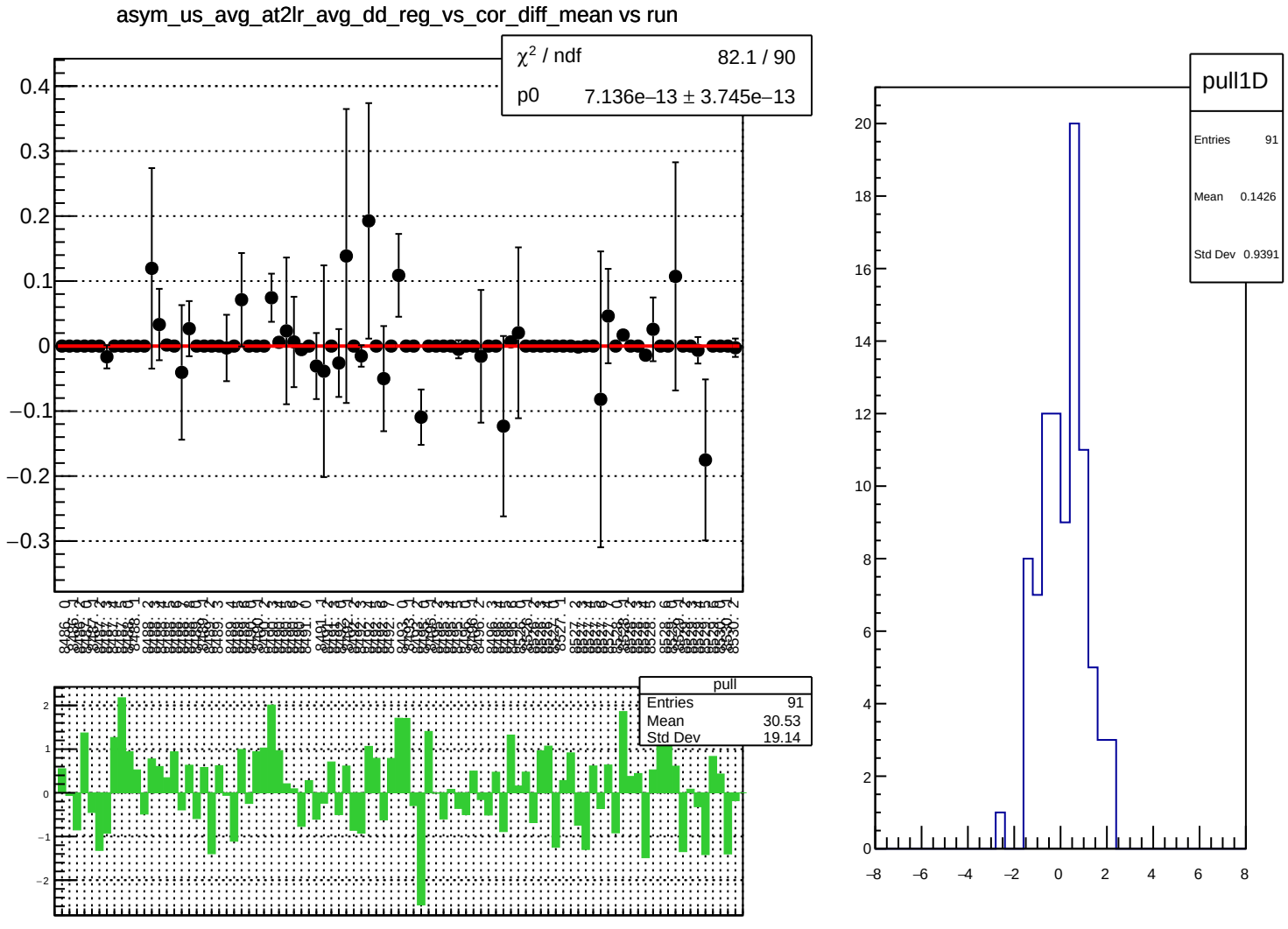

pull1D
Entries 91
Mean −0.04587
Std Dev 1.043
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

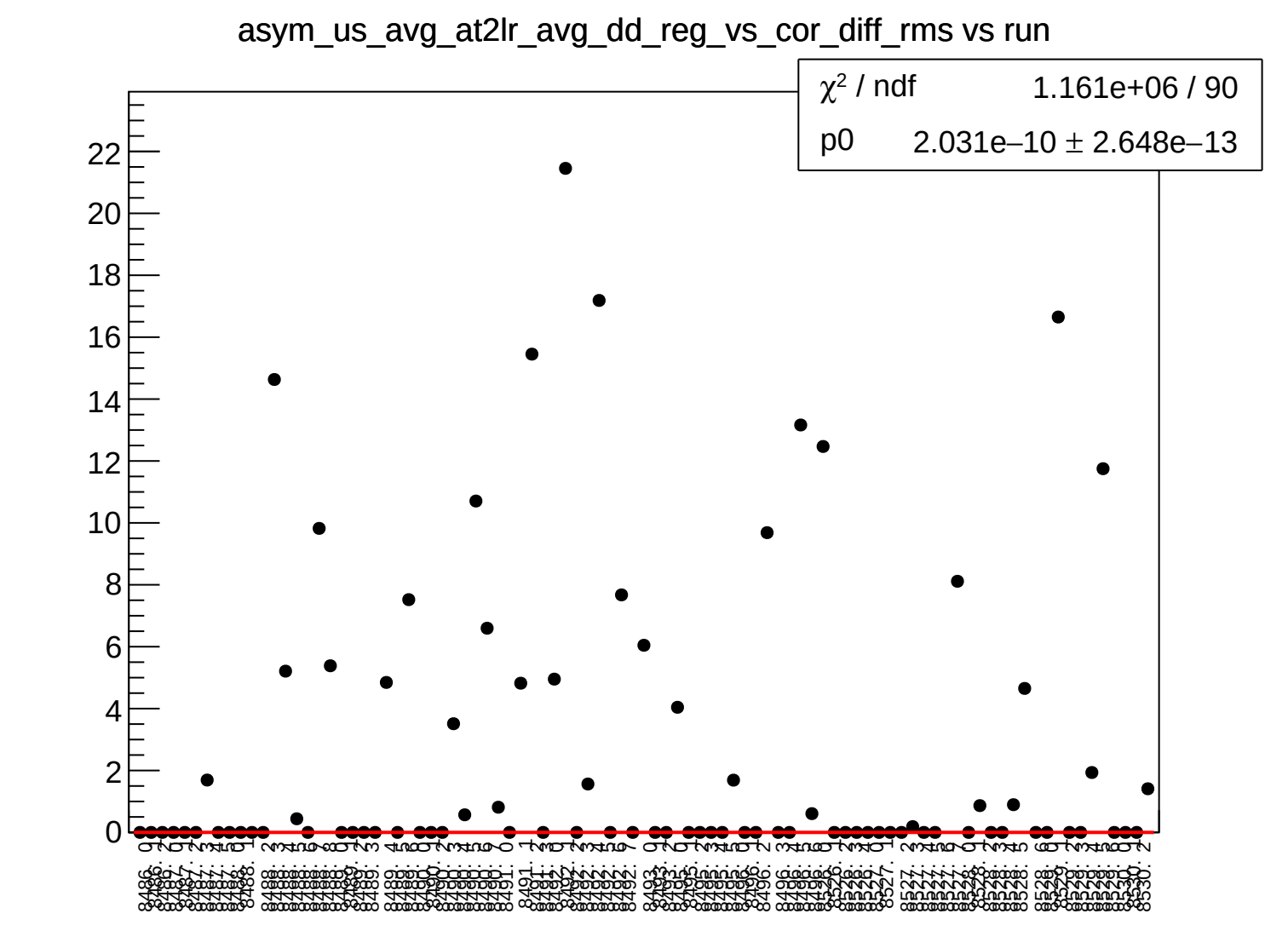

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.262e+04 / 90
p0 1519 ± 1.159
2000
1800
1600
1400
1200

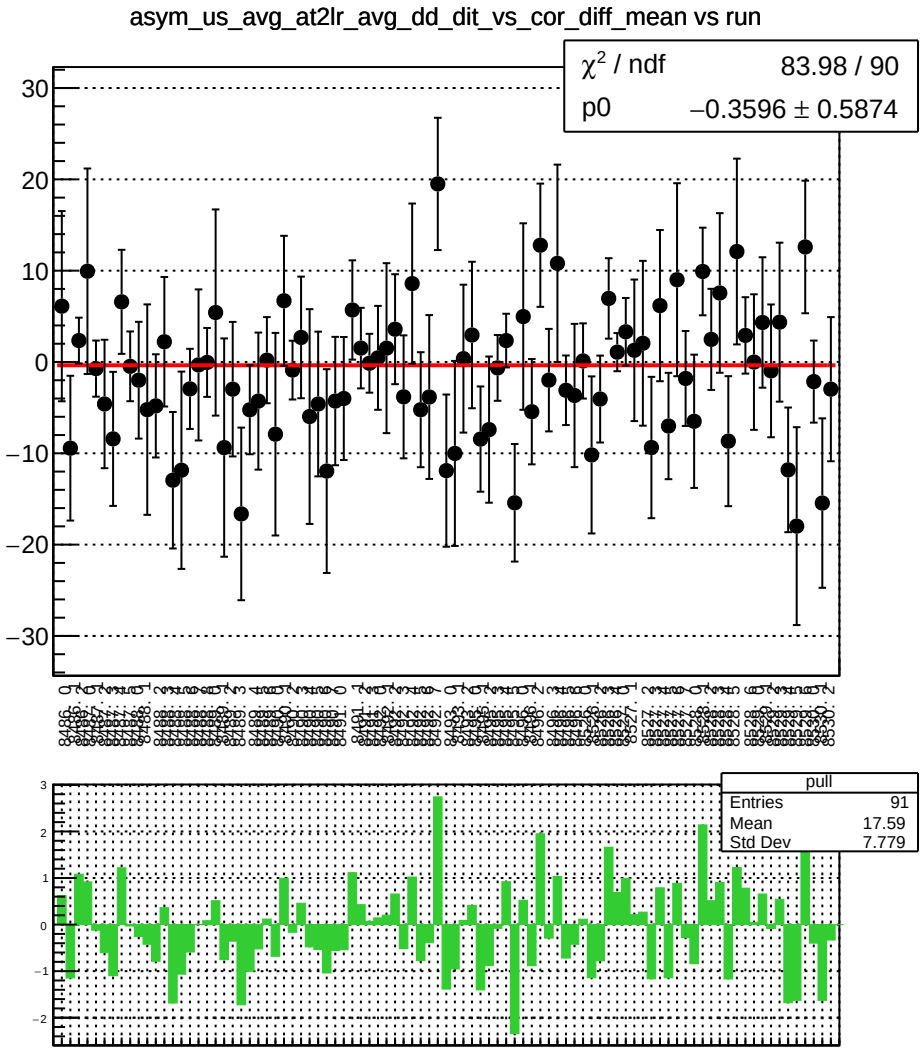

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 92.23 / 90
p0 2.408e+04 ± 3.333e+04
1000
500
0
−500
−1000
pull
Entries 91
Mean −514.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

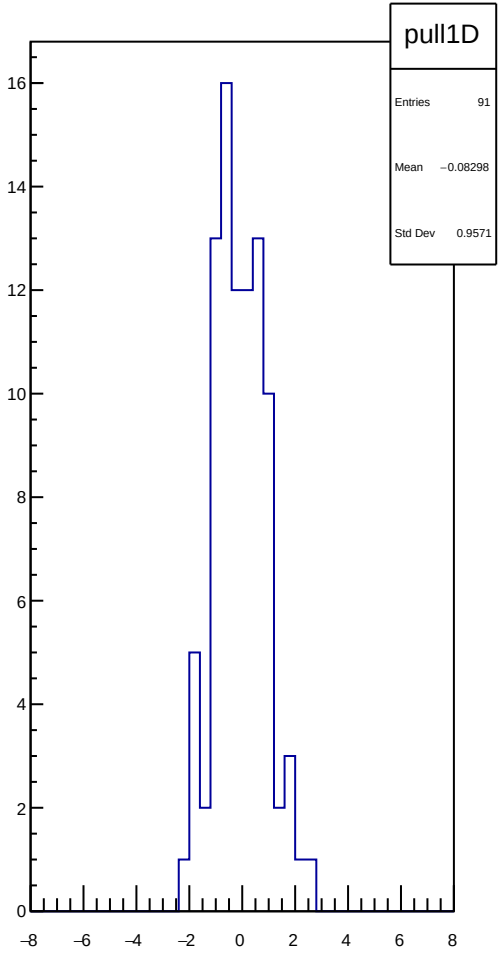

pull1D
Entries 91
Mean −0.01152
Std Dev 1.007
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

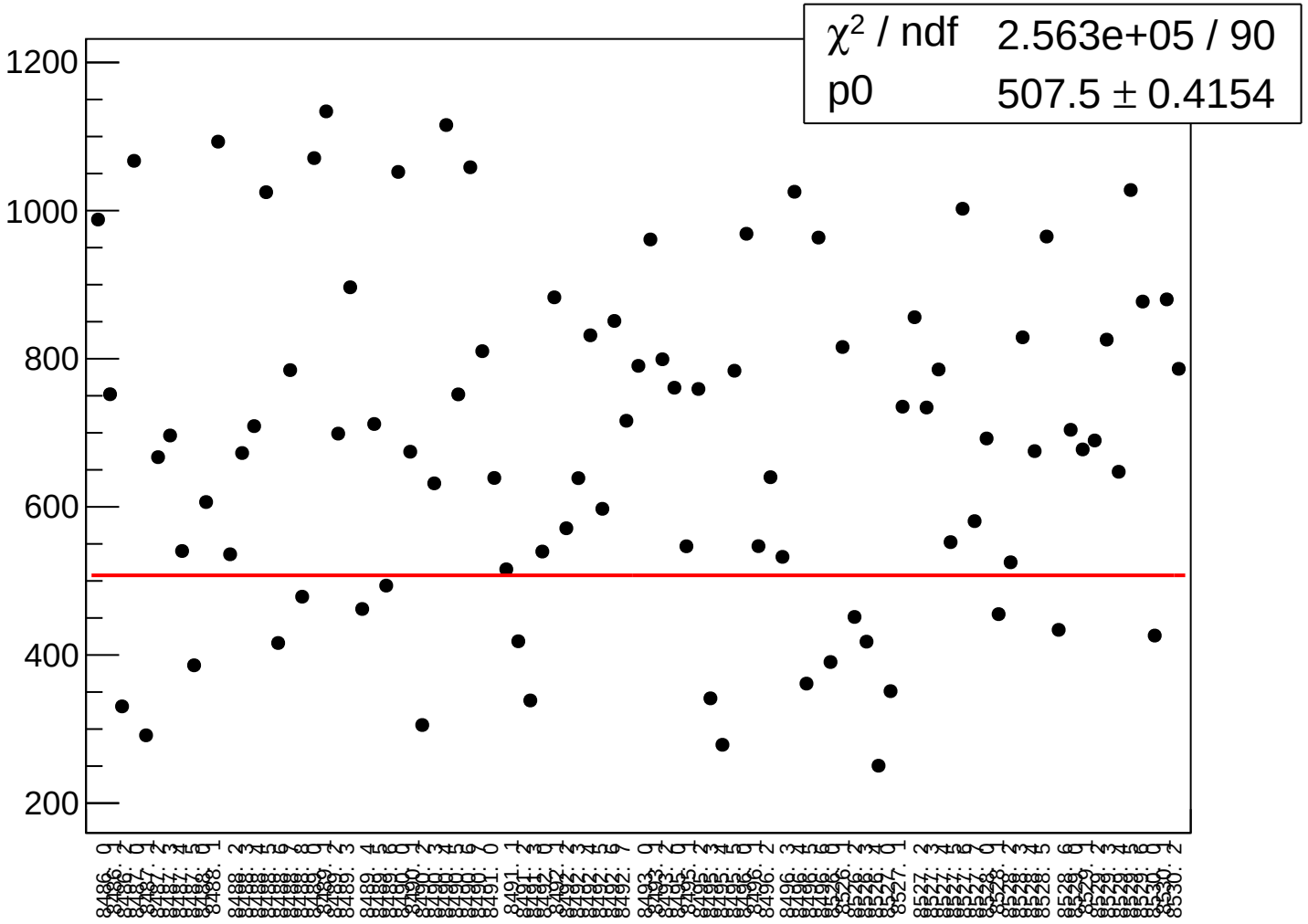

asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 98.6 / 90
p0 3.117e+04 ± 23.57
32000
31800
31600
31400
31200
31000
30800
30600
30400

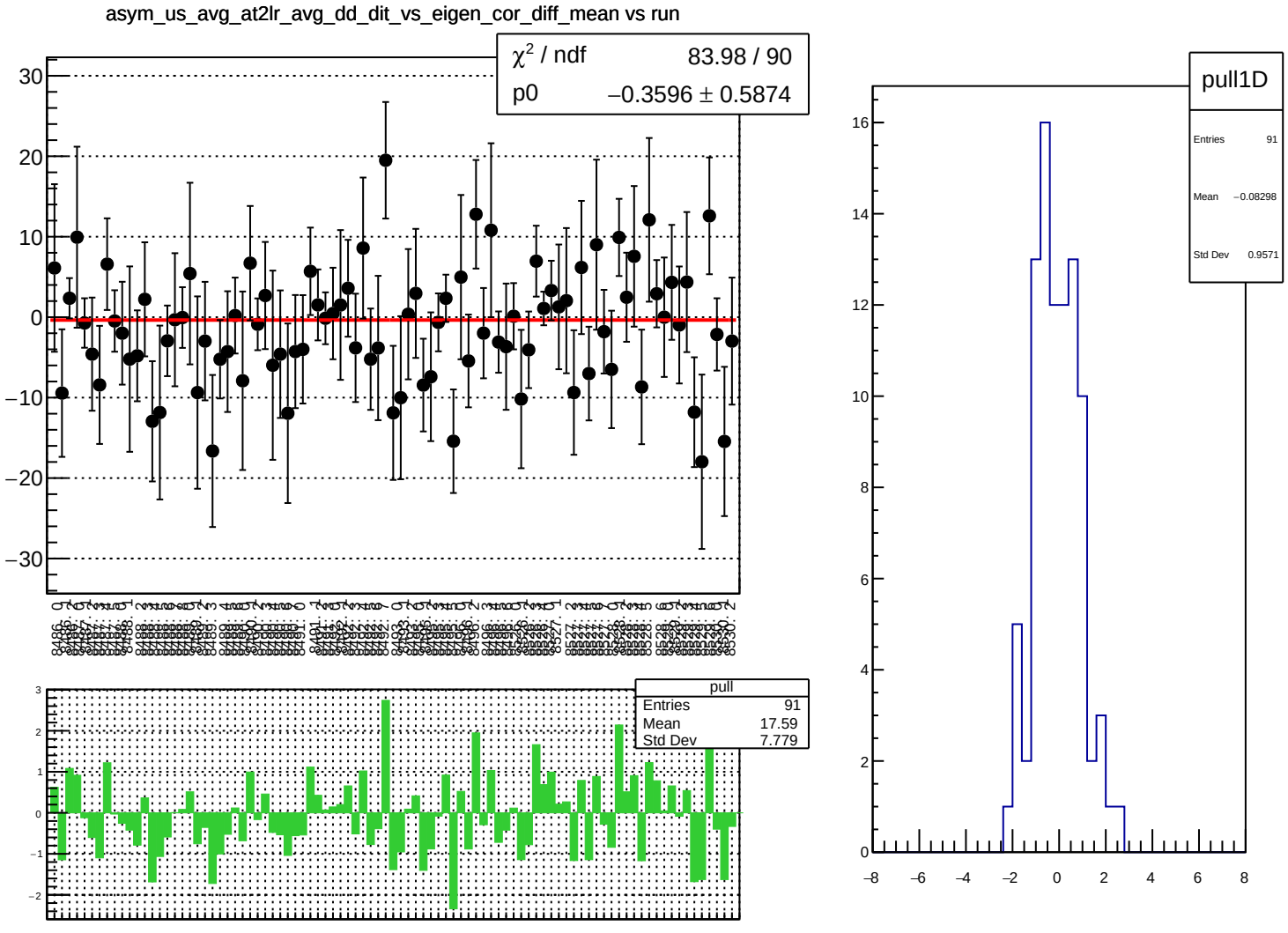

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 82.1 / 90
p0 7.136e−13 ± 3.745e−13
pull
Entries 91
Mean 30.53
Std Dev 19.14
pull1D
Entries 91
Mean 0.1426
Std Dev 0.9391

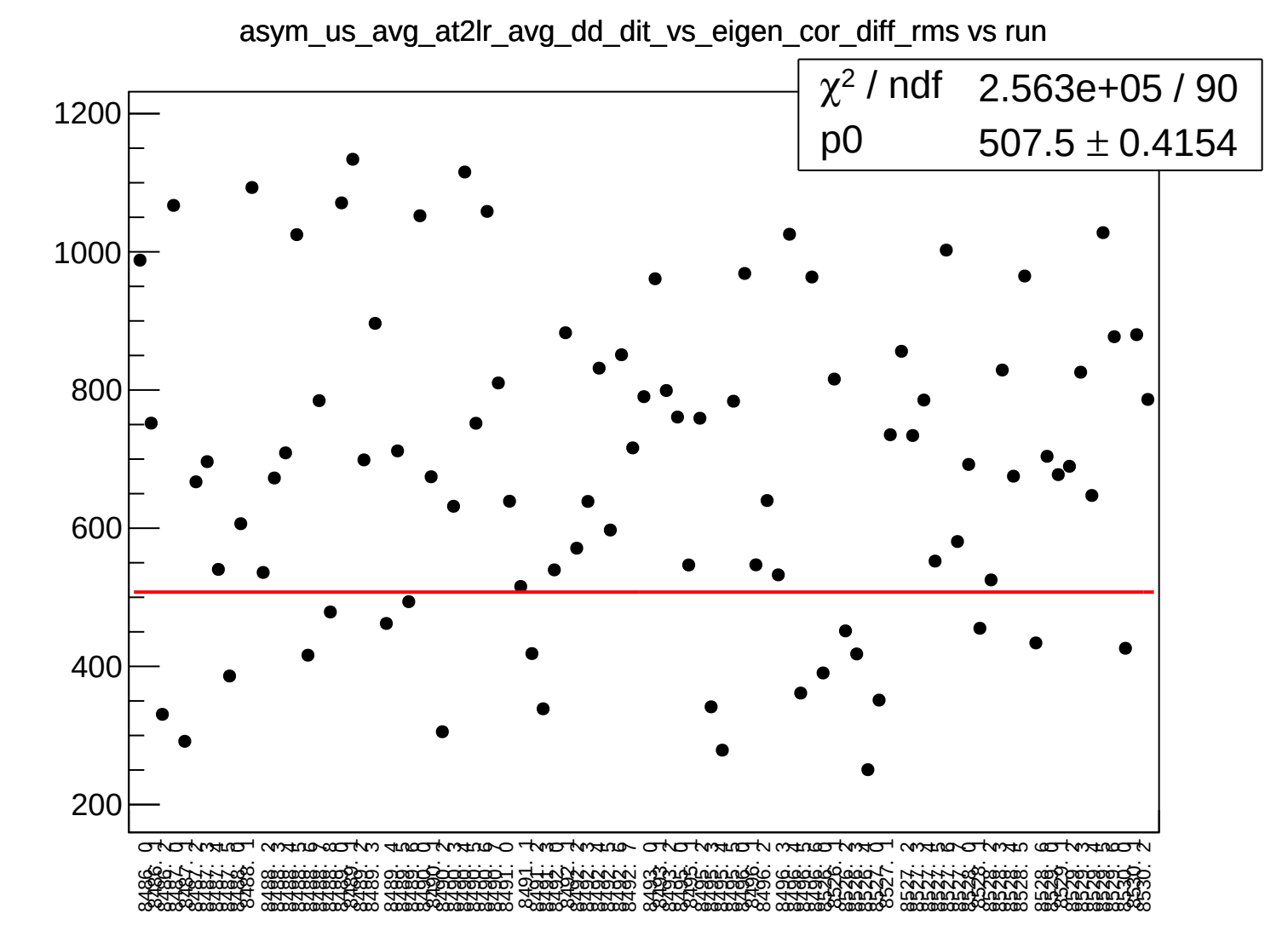

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.161e+06 / 90
p0 2.031e−10 ± 2.648e−13
0
2
4
6
8
10
12
14
16
18
20
22

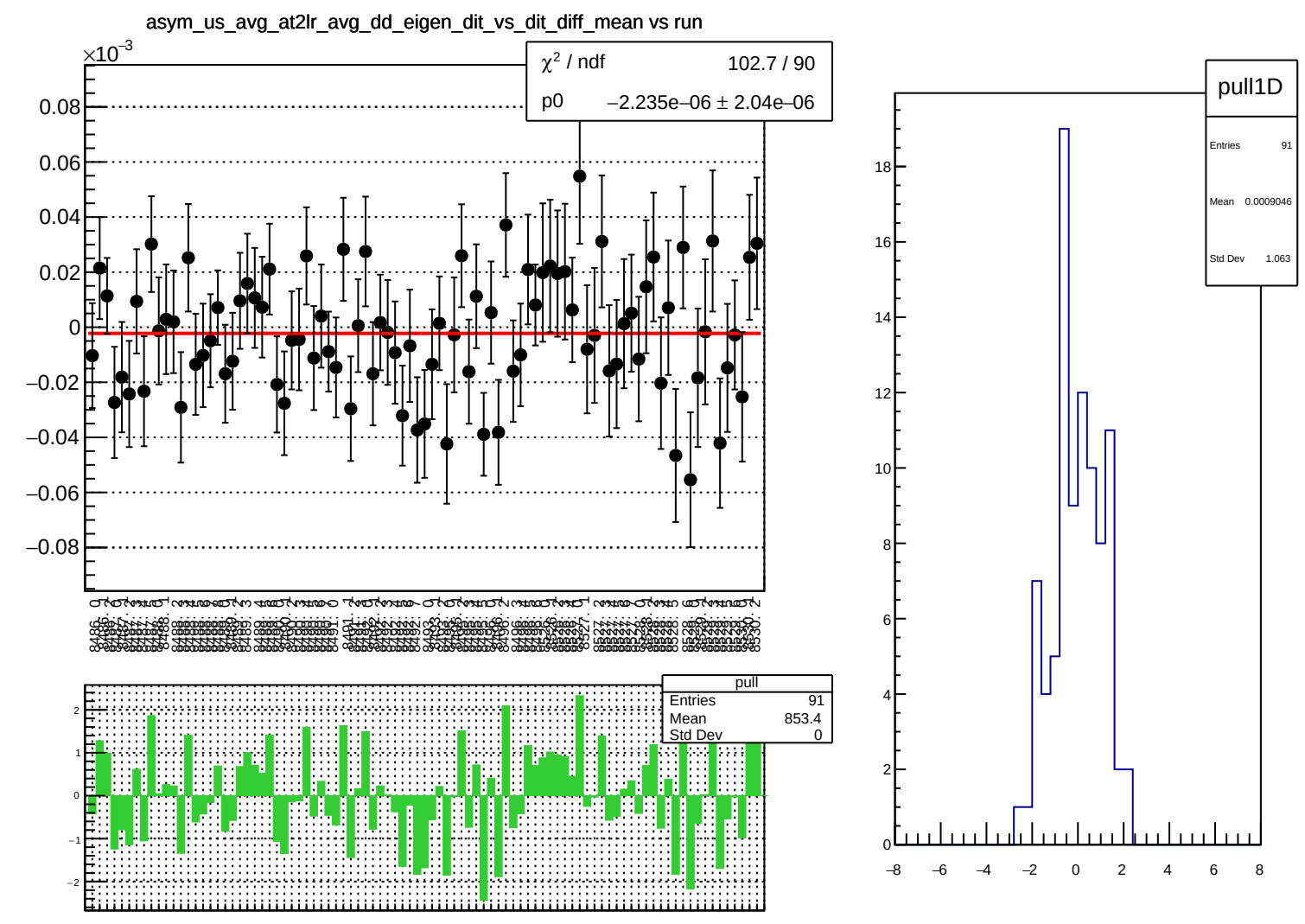

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 83.98 / 90
p0 −0.3596 ± 0.5874
pull
Entries 91
Mean 17.59
Std Dev 7.779

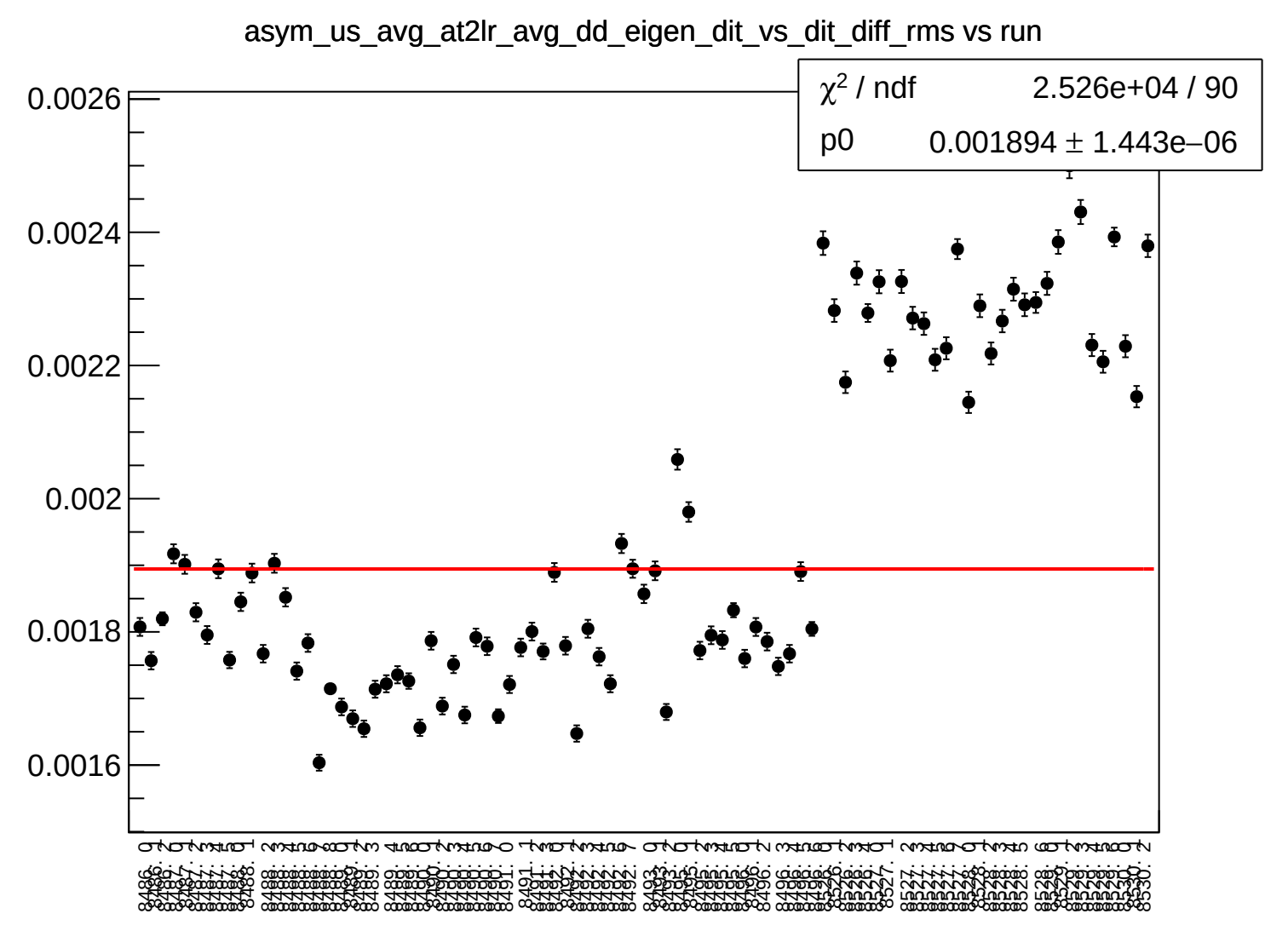

pull1D
Entries 91
Mean −0.08298
Std Dev 0.9571


asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.563e+05 / 90
p0 507.5 ± 0.4154
1200
1000
800
600
400
200

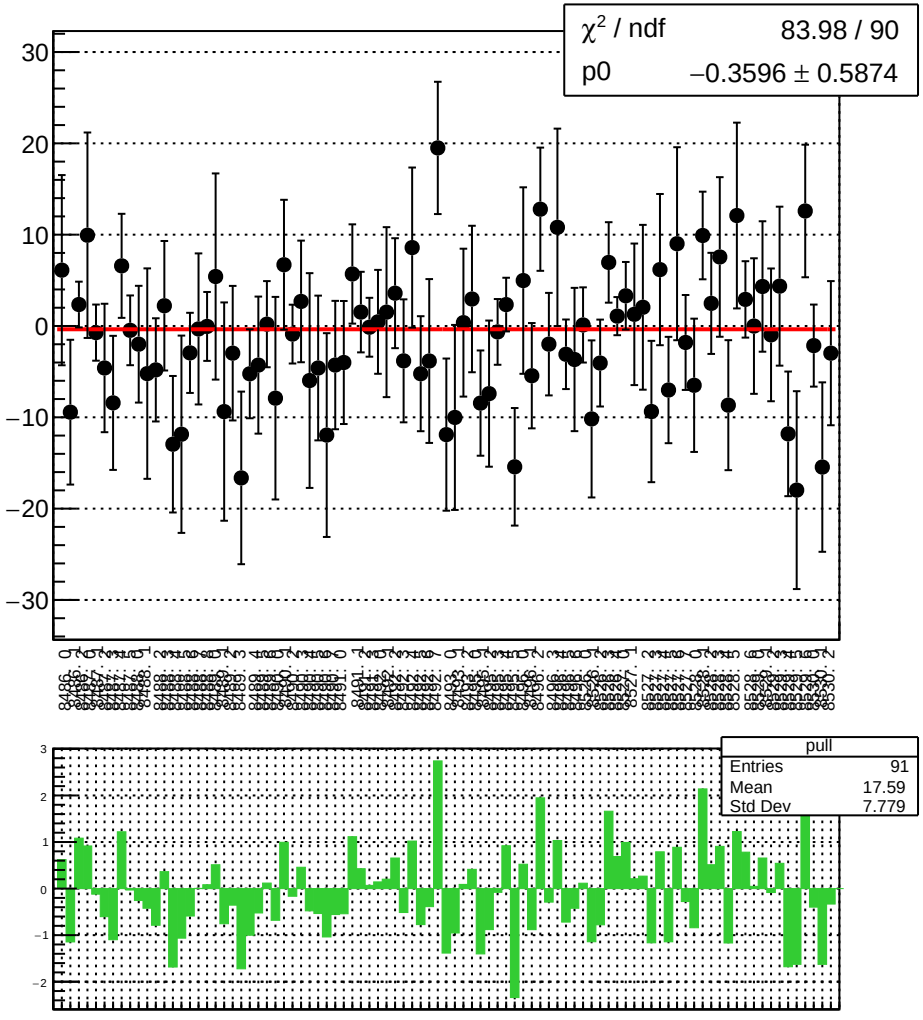

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.98 / 90
p0 −0.3596 ± 0.5874
pull
Entries 91
Mean 17.59
Std Dev 7.779
pull1D
Entries 91
Mean −0.08298
Std Dev 0.9571

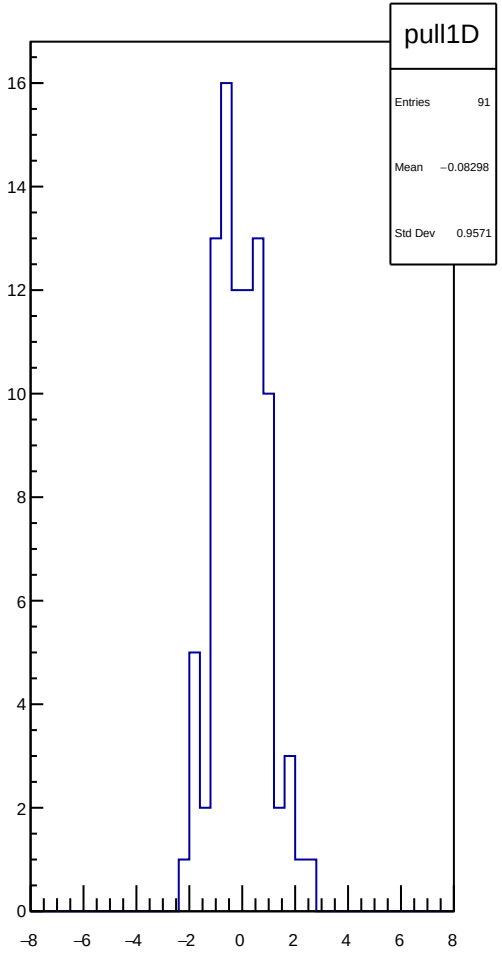

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.563e+05 / 90
p0 507.5 ± 0.4154
1200
1000
800
600
400
200

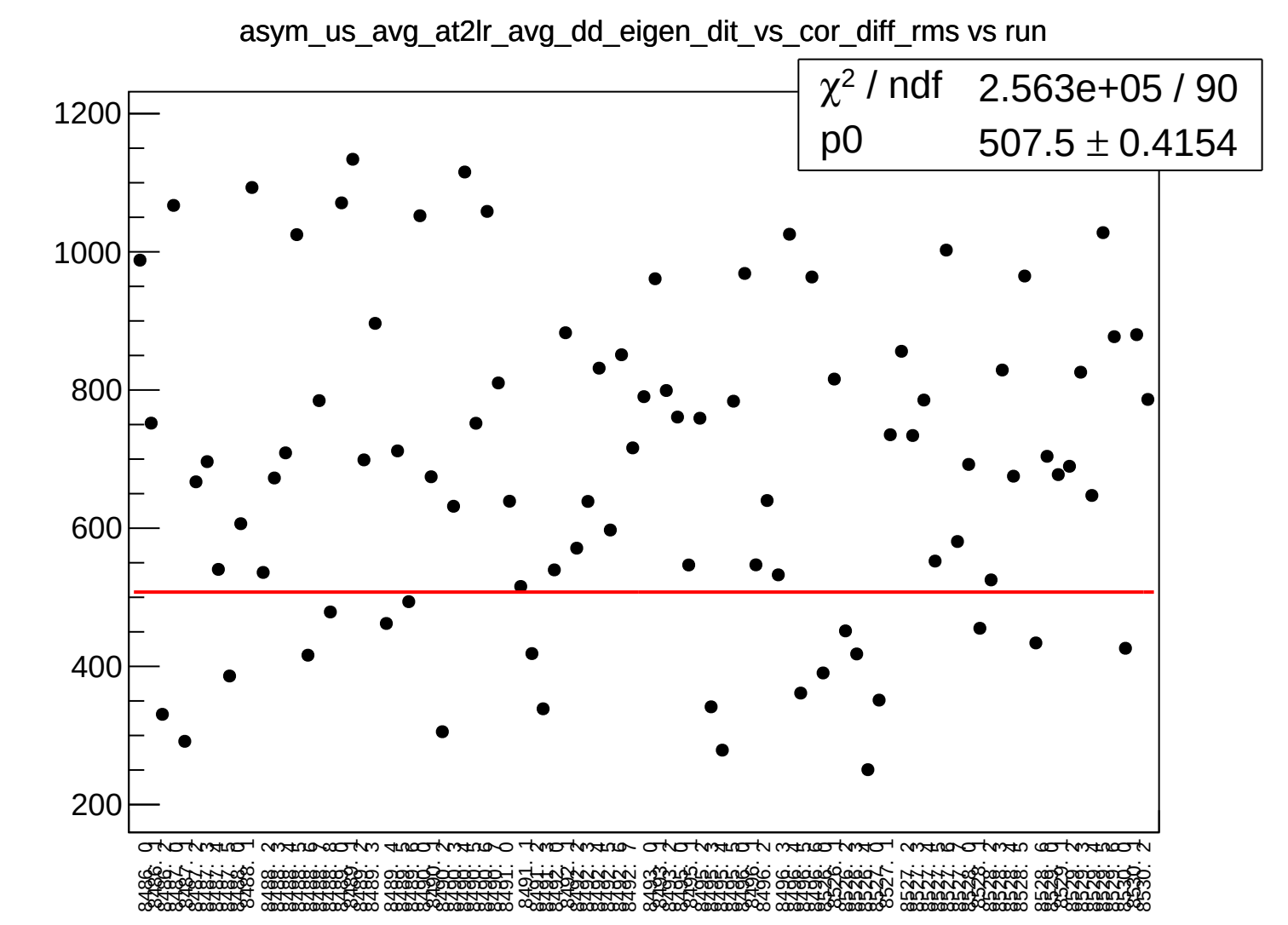

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 102.7 / 90
p0 −2.235e−06 ± 2.04e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 91
Mean 853.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.0009046
Std Dev 1.063
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

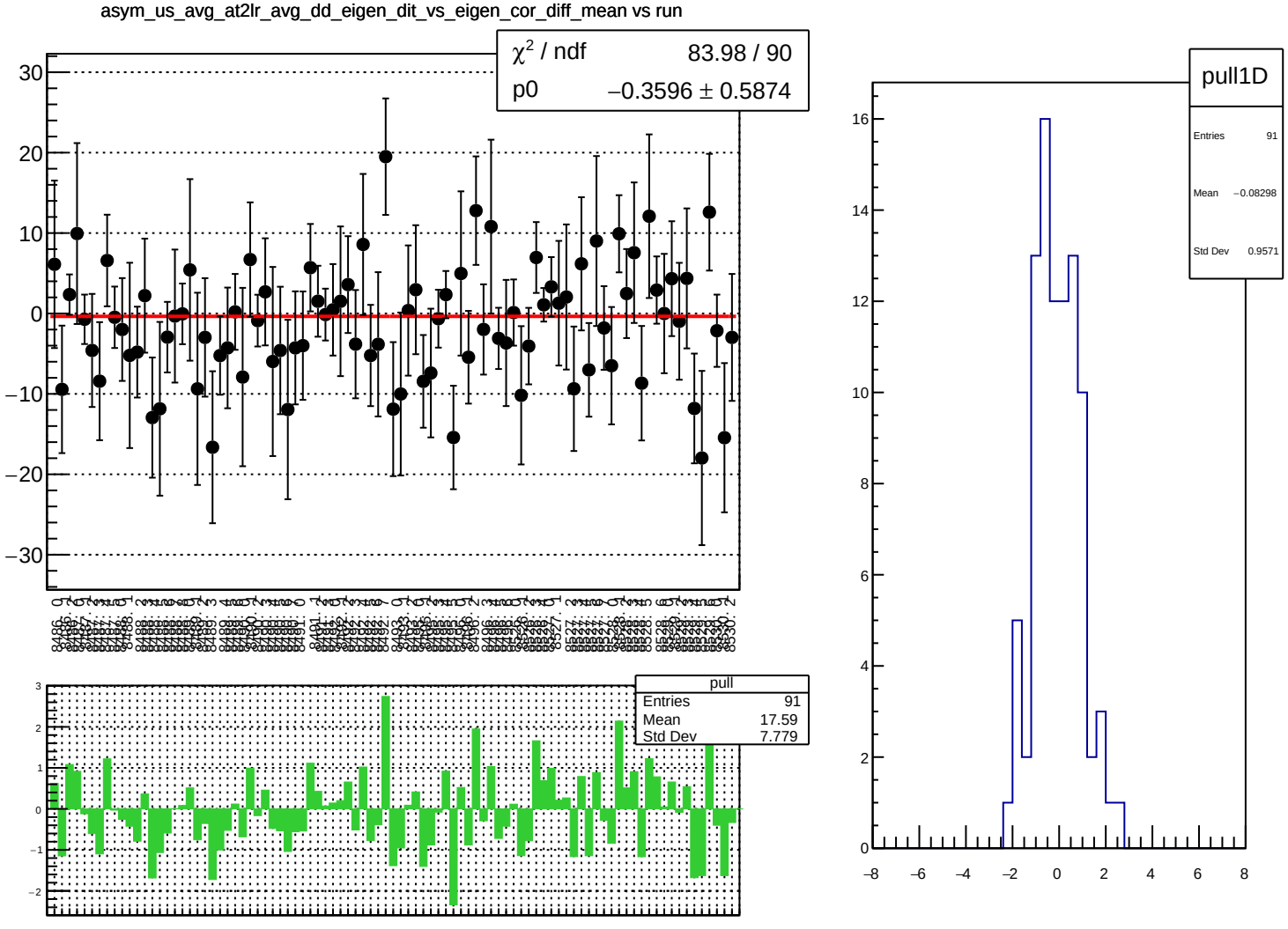

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.526e+04 / 90
p0 0.001894 ± 1.443e−06
0.0026
0.0024
0.0022
0.002
0.0018
0.0016

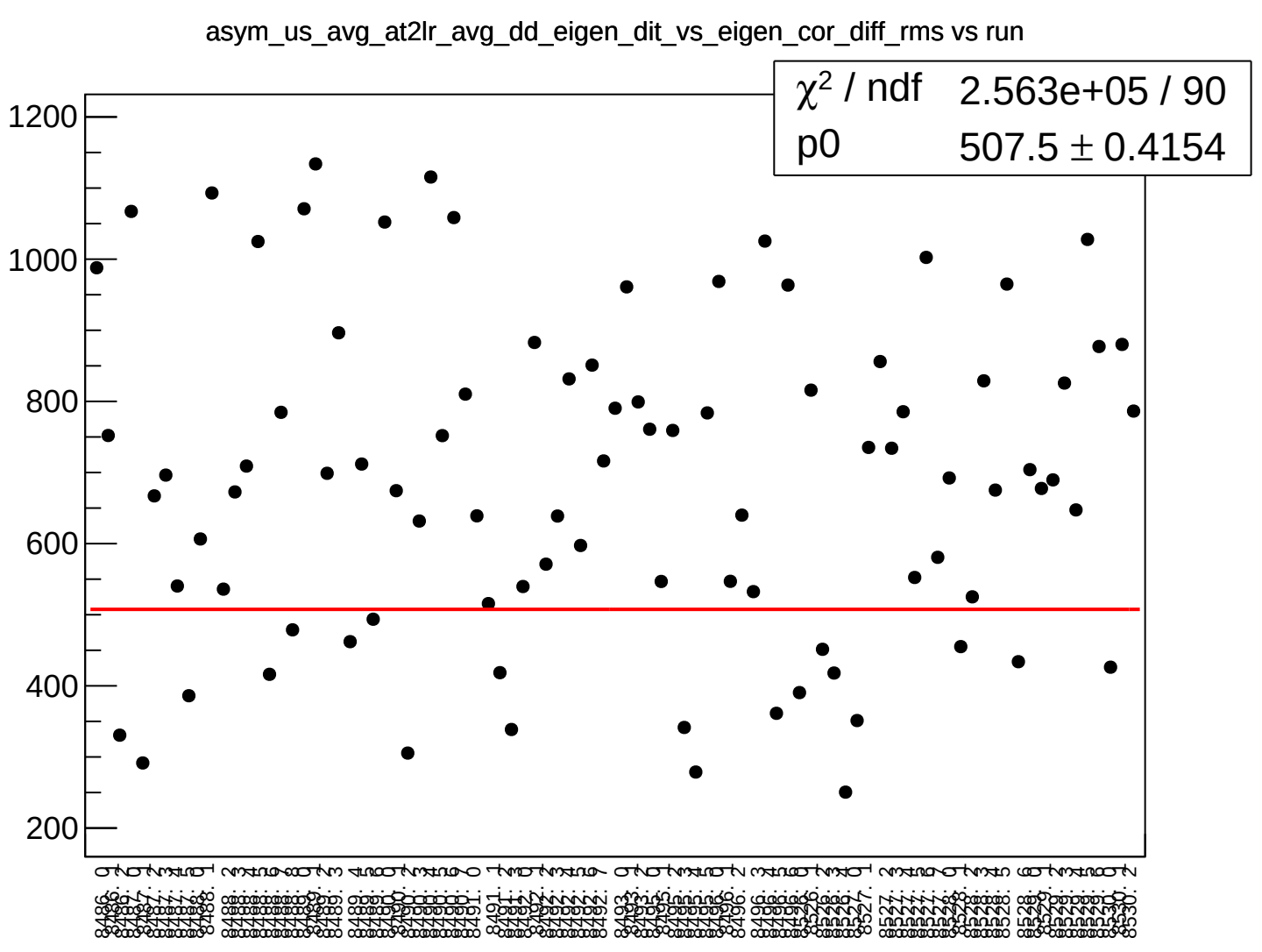
asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run

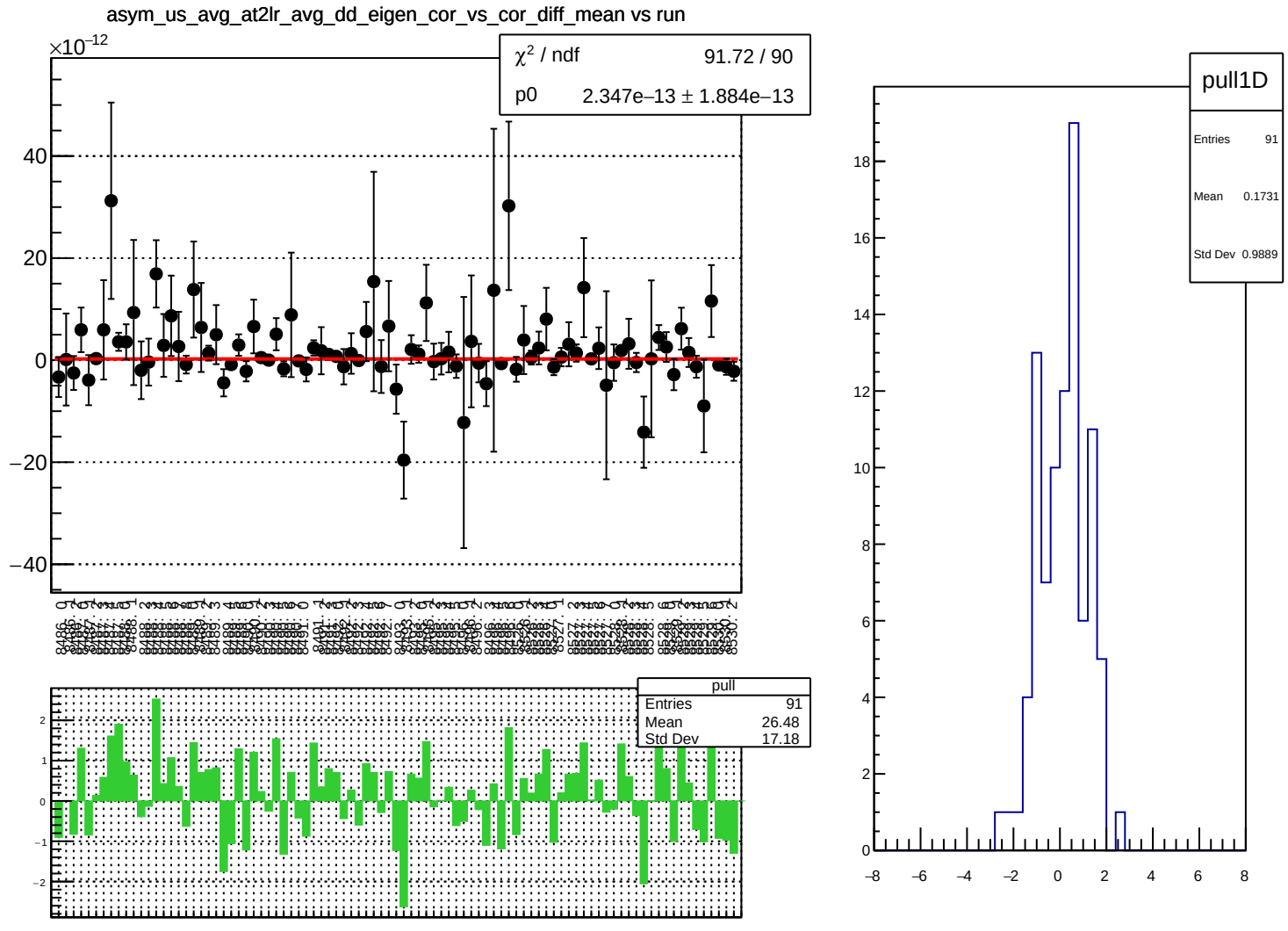


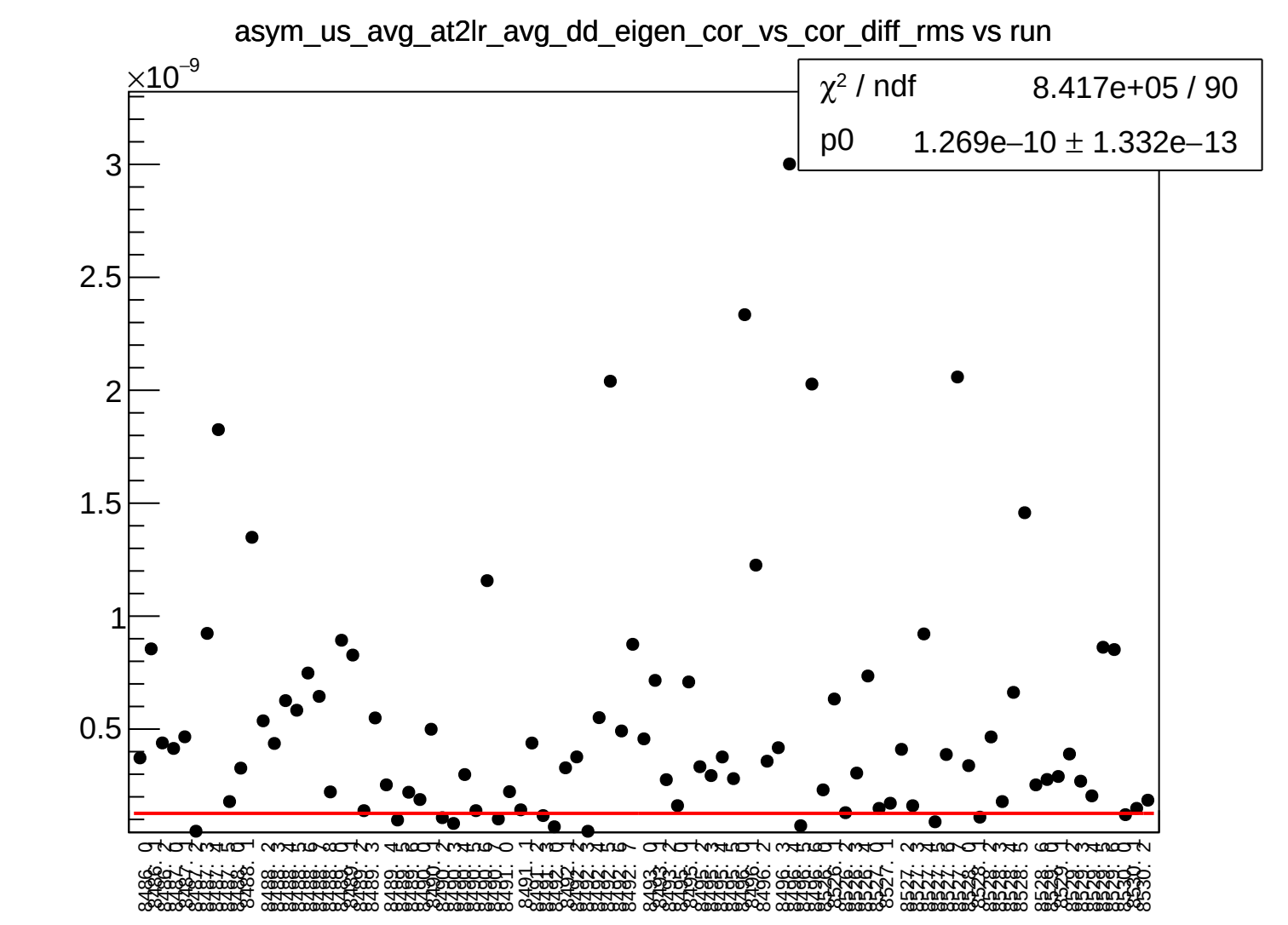


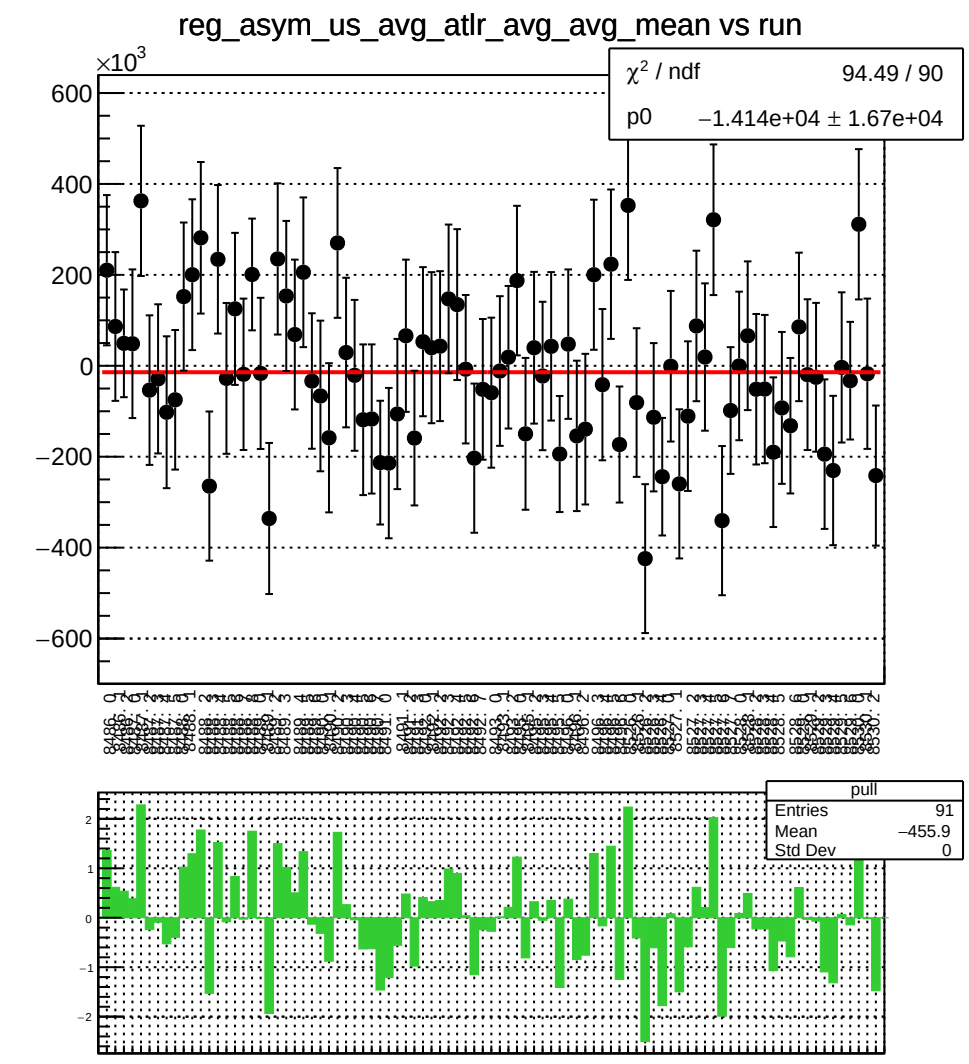

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.563e+05 / 90
p0 507.5 ± 0.4154
1200
1000
800
600
400
200

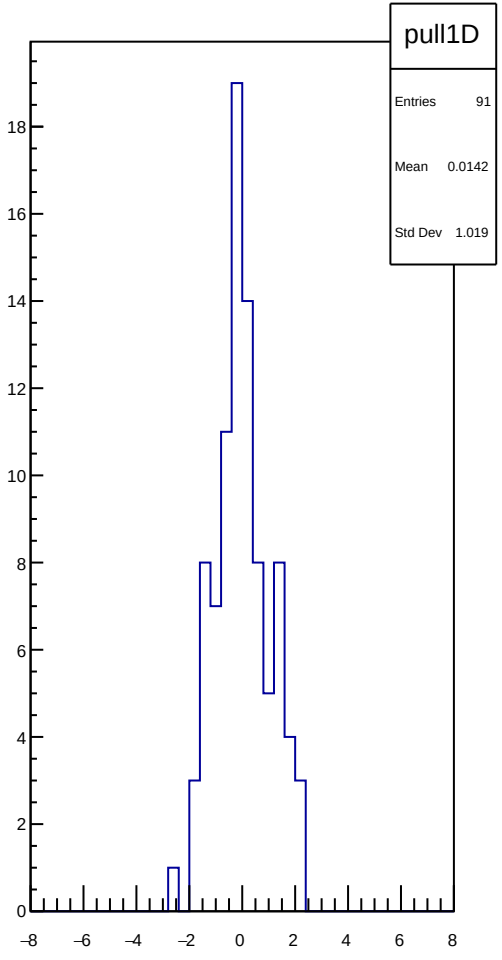

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.98 / 90
p0 −0.3596 ± 0.5874
pull
Entries 91
Mean 17.59
Std Dev 7.779
pull1D
Entries 91
Mean −0.08298
Std Dev 0.9571

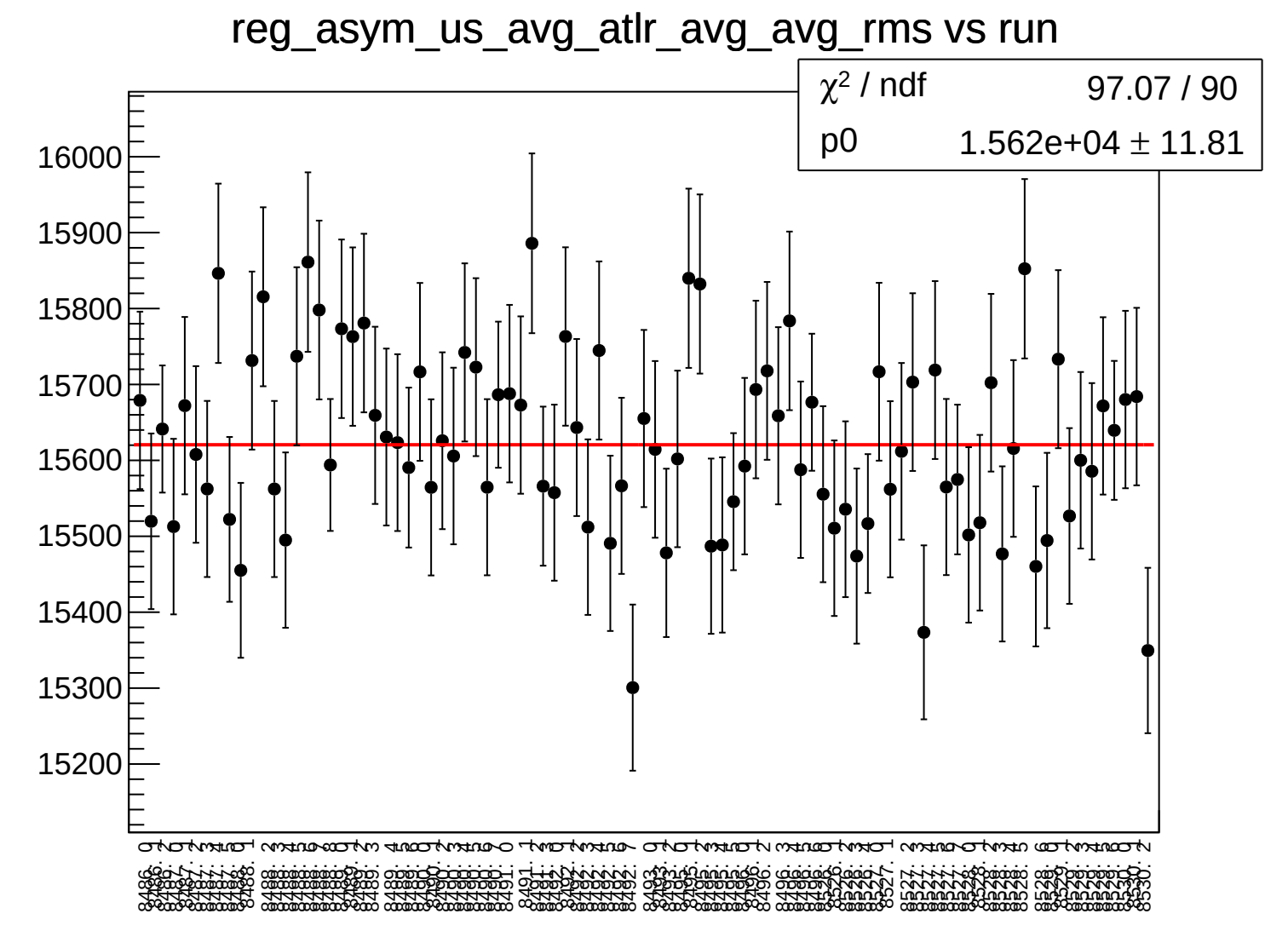

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.563e+05 / 90
p0 507.5 ± 0.4154
1200
1000
800
600
400
200

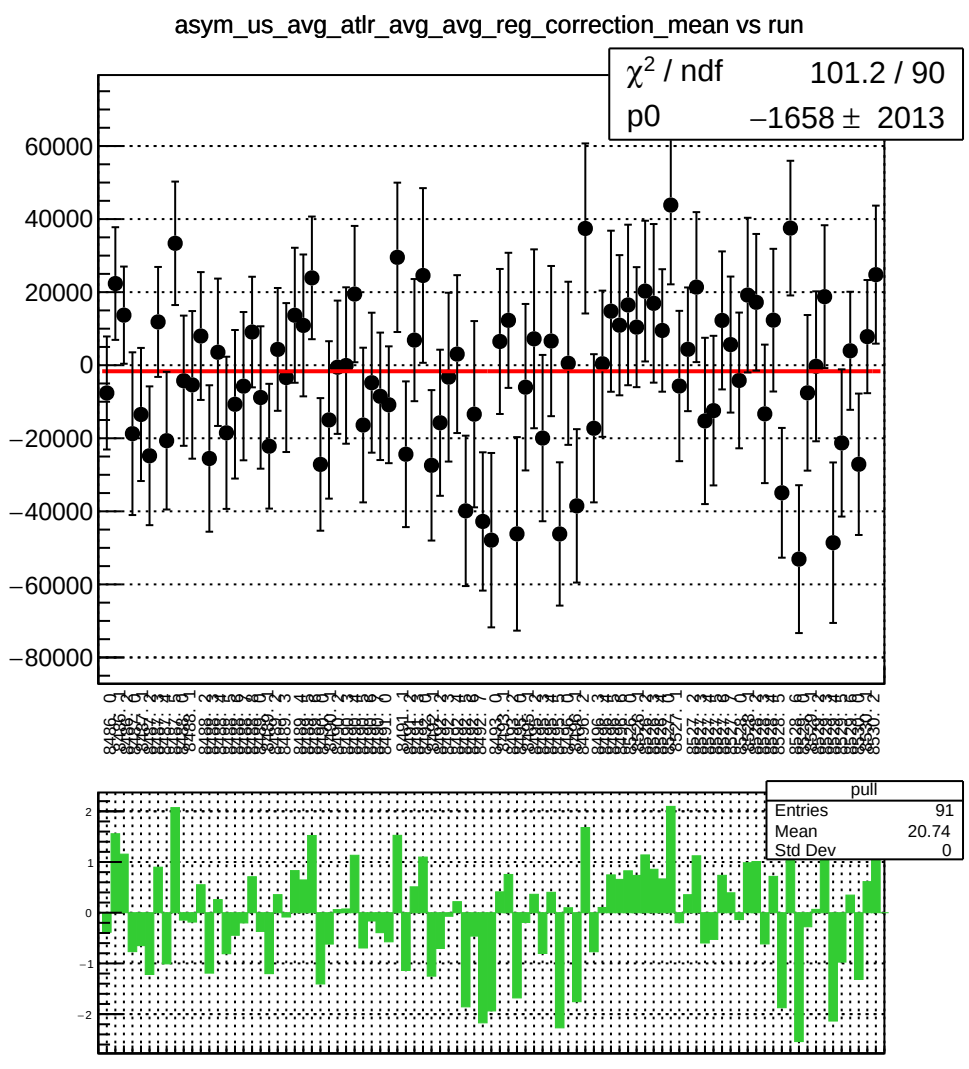

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.72 / 90
p0 2.347e−13 ± 1.884e−13
40
20
0
−20
−40
pull
Entries 91
Mean 26.48
Std Dev 17.18
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.1731
Std Dev 0.9889
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

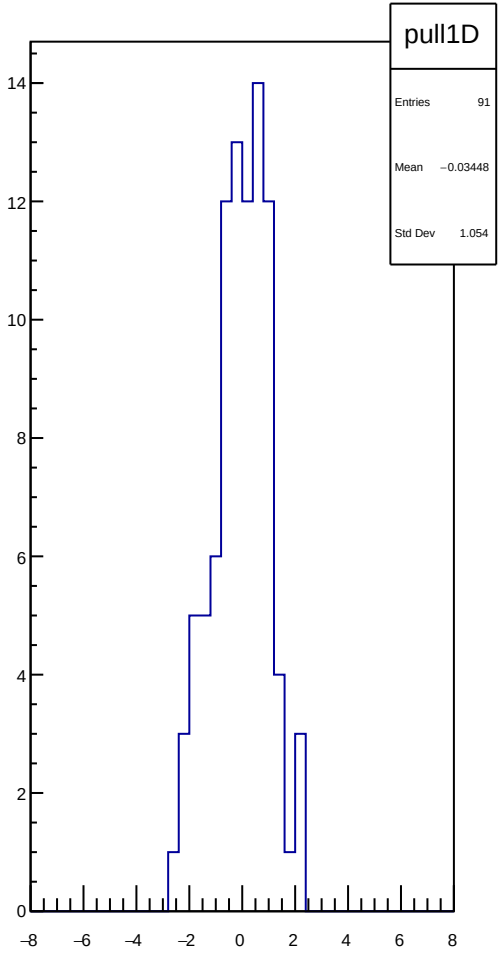

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.417e+05 / 90
p0 1.269e−10 ± 1.332e−13
3
2.5
2
1.5
1
0.5

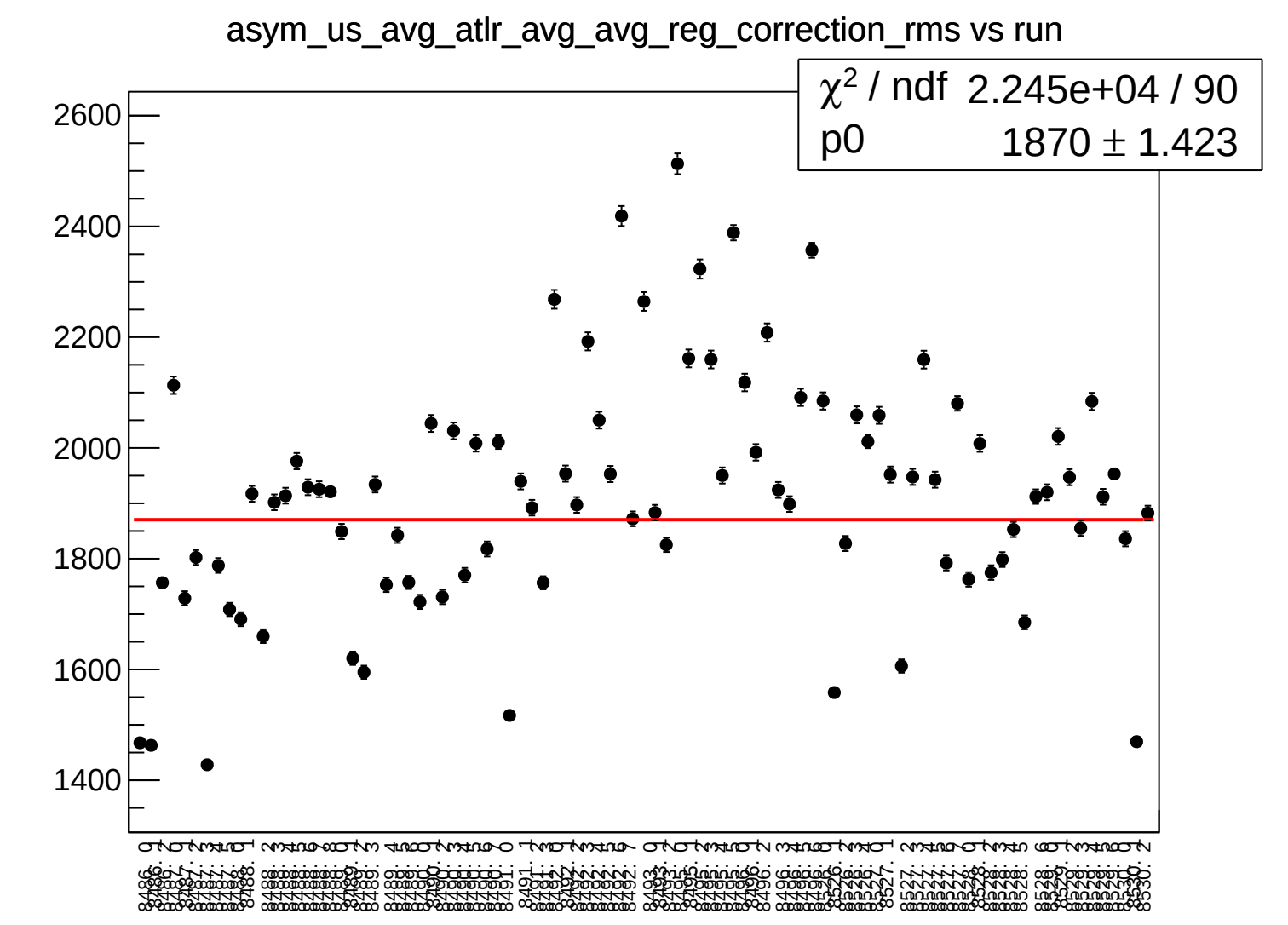

reg_asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ² / ndf 94.49 / 90
p0 −1.414e+04 ± 1.67e+04
pull
Entries 91
Mean −455.9
Std Dev 0

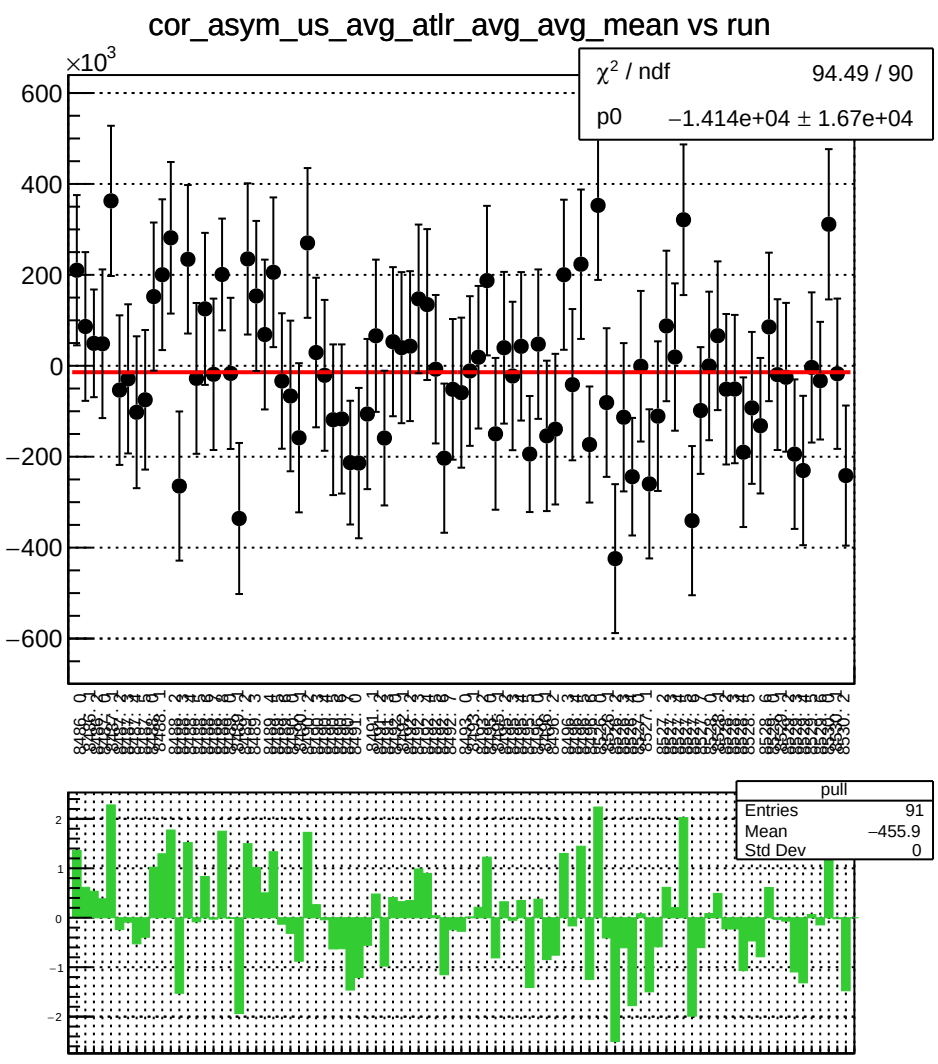

pull1D
Entries 91
Mean 0.0142
Std Dev 1.019

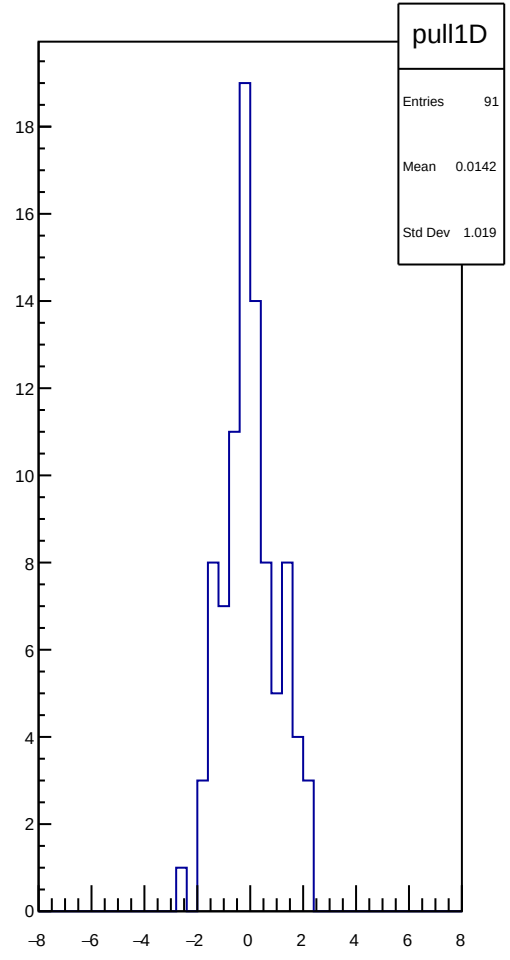

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 97.07 / 90
p0 1.562e+04 ± 11.81
16000
15900
15800
15700
15600
15500
15400
15300
15200

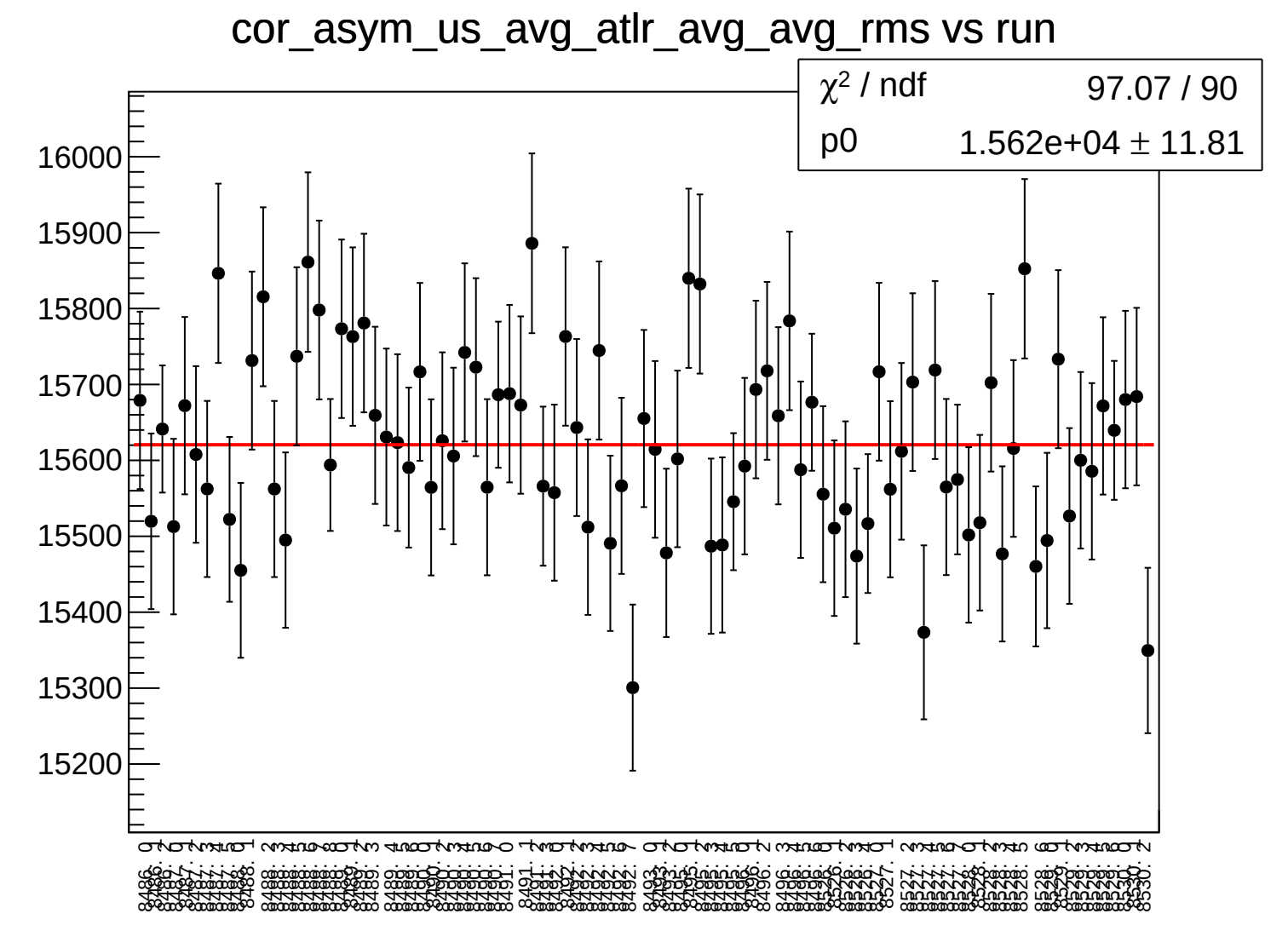

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
χ² / ndf 101.2 / 90
p0 −1658 ± 2013
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean 20.74
Std Dev 0
2
1
0
−1
−2

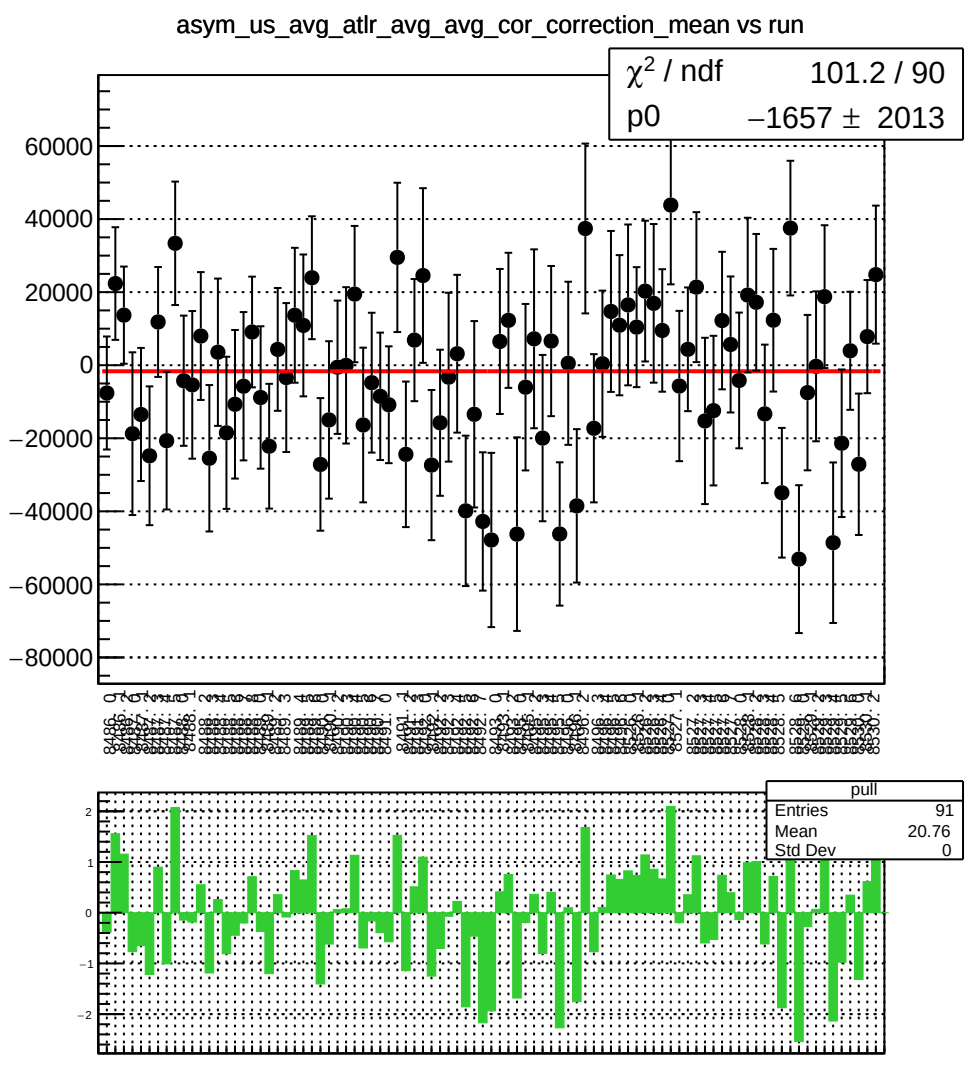

pull1D
Entries 91
Mean −0.03448
Std Dev 1.054
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

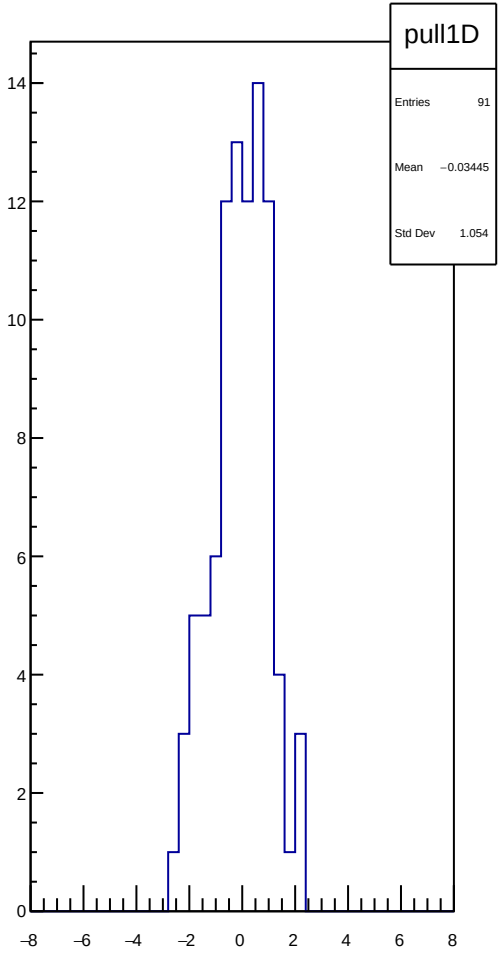

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ² / ndf 2.245e+04 / 90
p0 1870 ± 1.423
2600
2400
2200
2000
1800
1600
1400

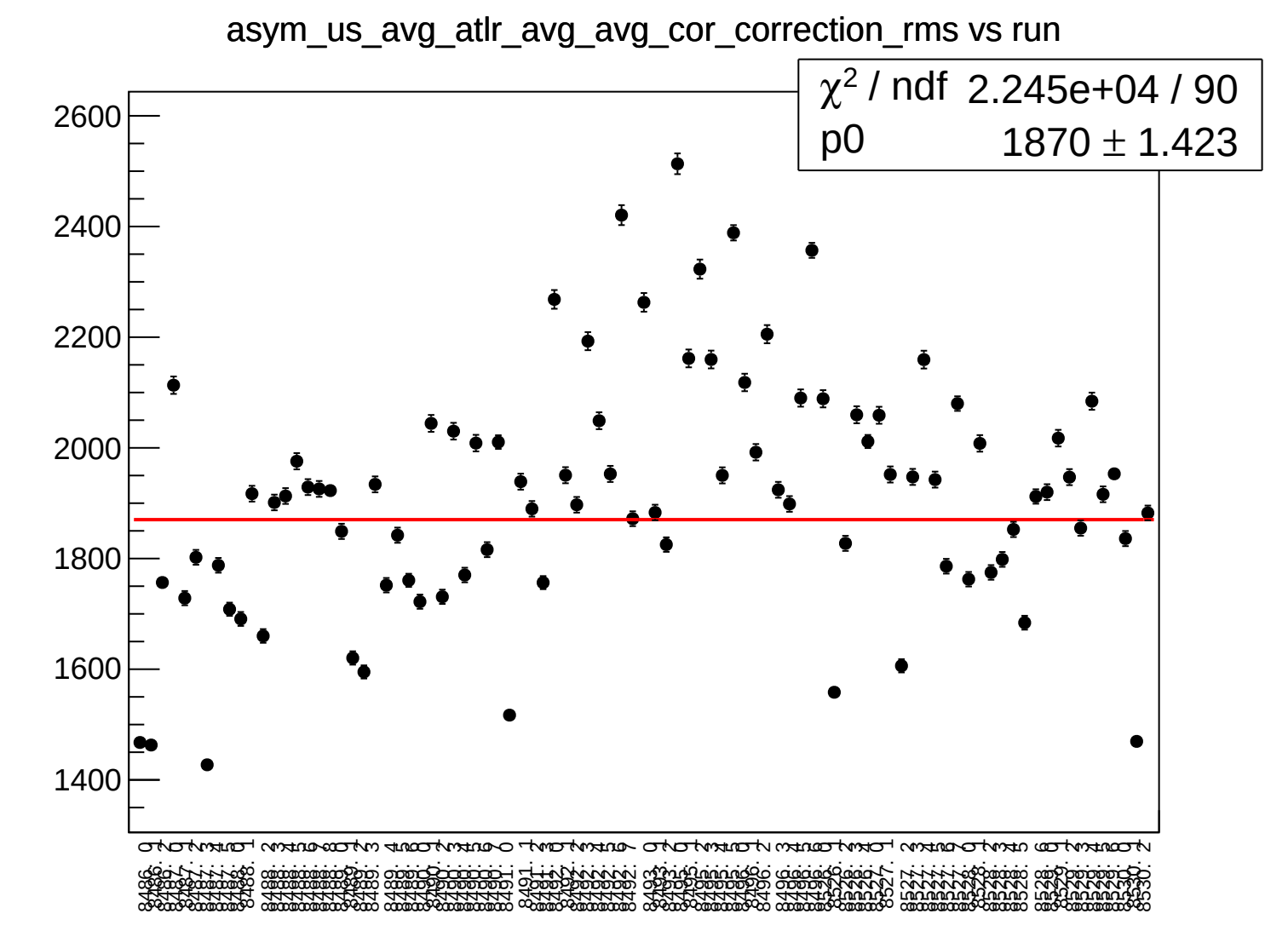

cor_asym_us_avg_atlr_avg_avg_mean vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 94.49 / 90
p0 −1.414e+04 ± 1.67e+04
pull
Entries 91
Mean −455.9
Std Dev 0
2
1
0
−1
−2

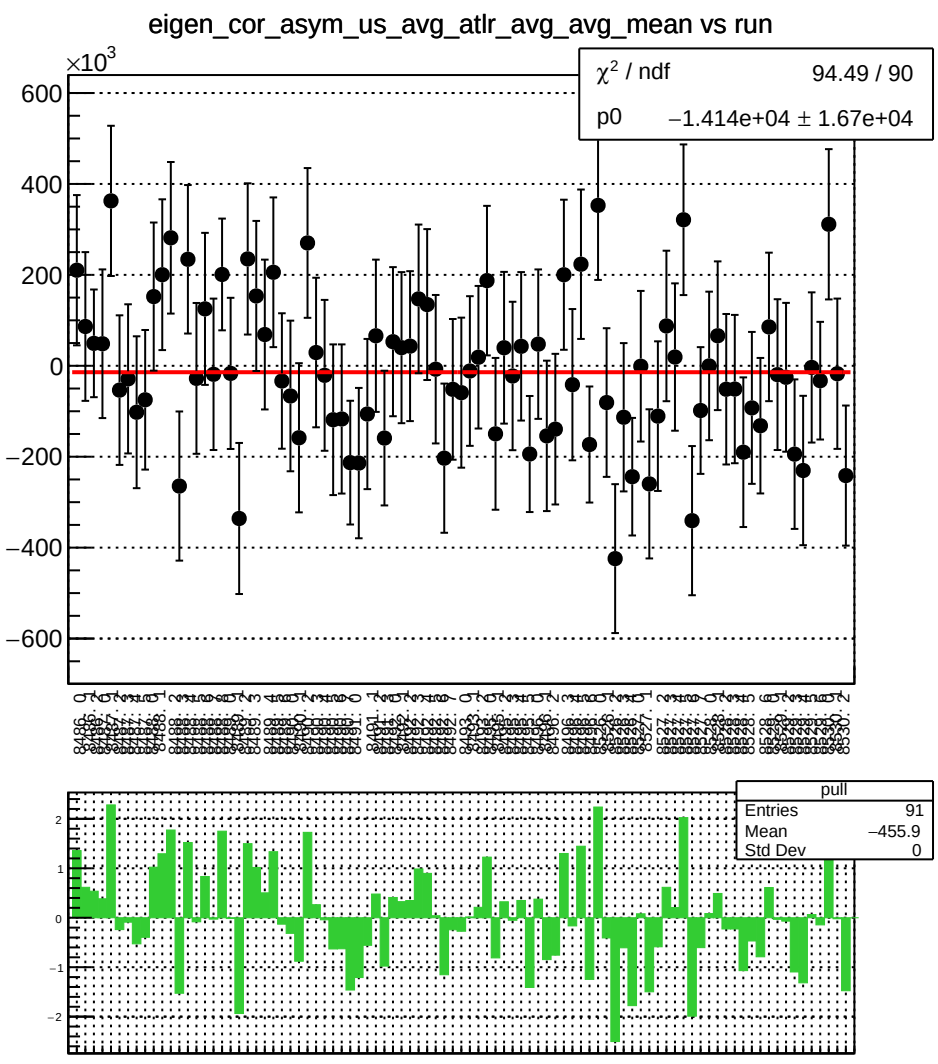

pull1D
Entries 91
Mean 0.0142
Std Dev 1.019
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

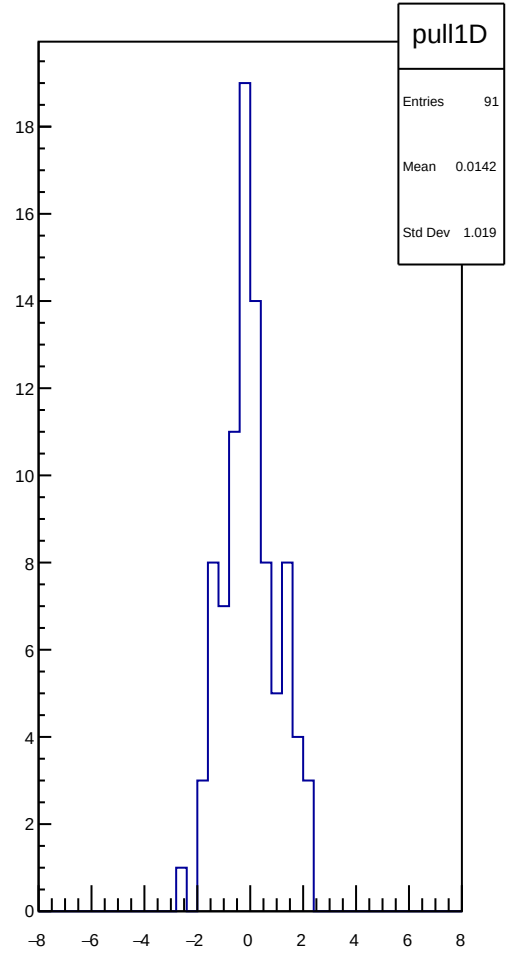

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 97.07 / 90
p0 1.562e+04 ± 11.81
16000
15900
15800
15700
15600
15500
15400
15300
15200

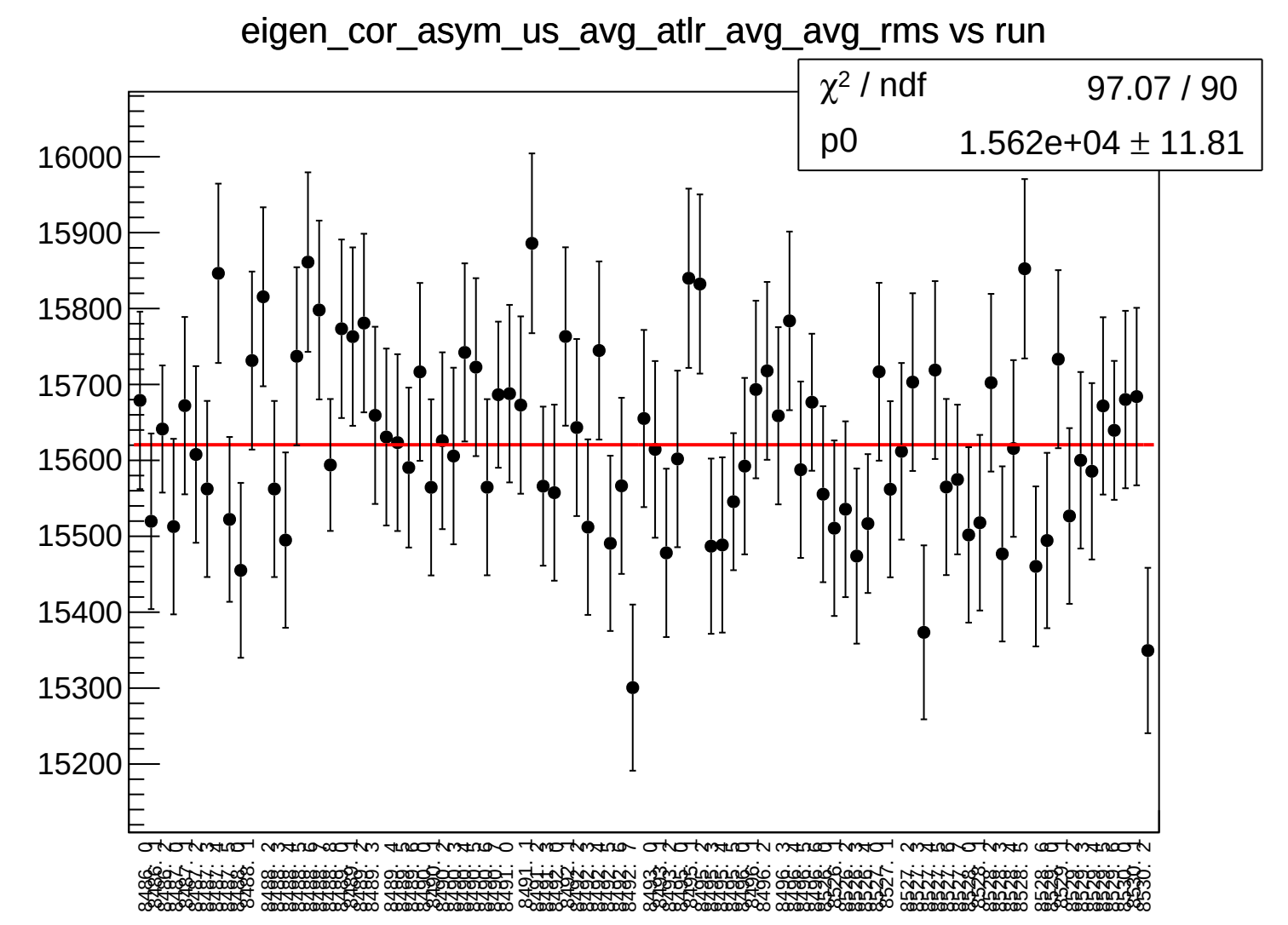

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
χ² / ndf 101.2 / 90
p0 −1657 ± 2013
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean 20.76
Std Dev 0
2
1
0
−1
−2

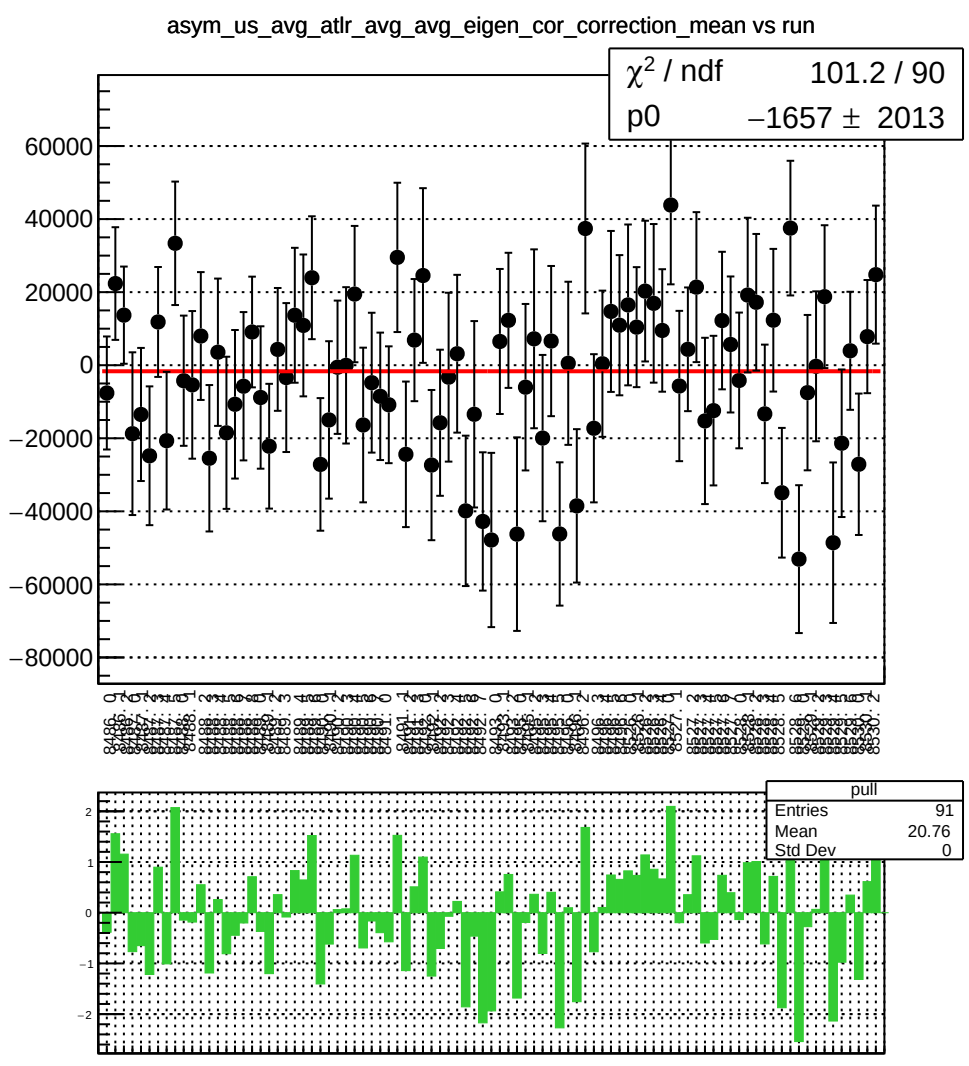

pull1D
Entries 91
Mean −0.03445
Std Dev 1.054
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

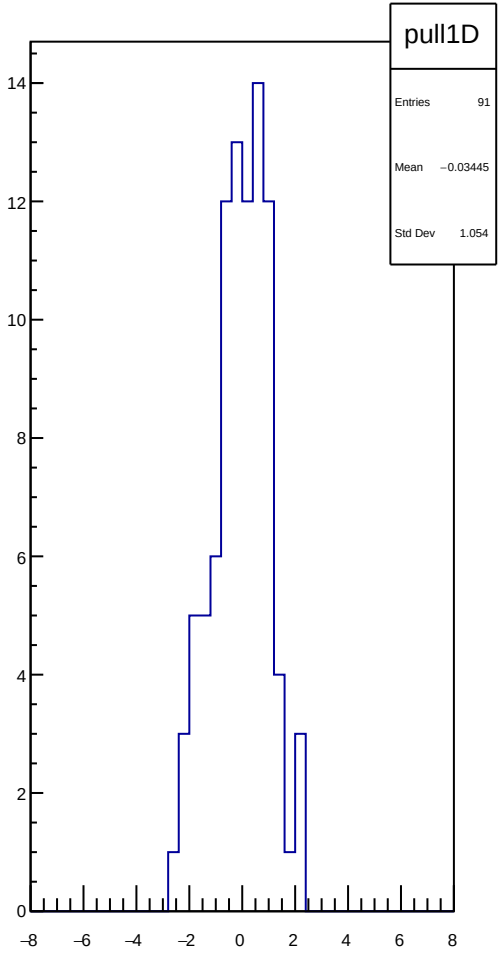

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ² / ndf 2.245e+04 / 90
p0 1870 ± 1.423
2600
2400
2200
2000
1800
1600
1400

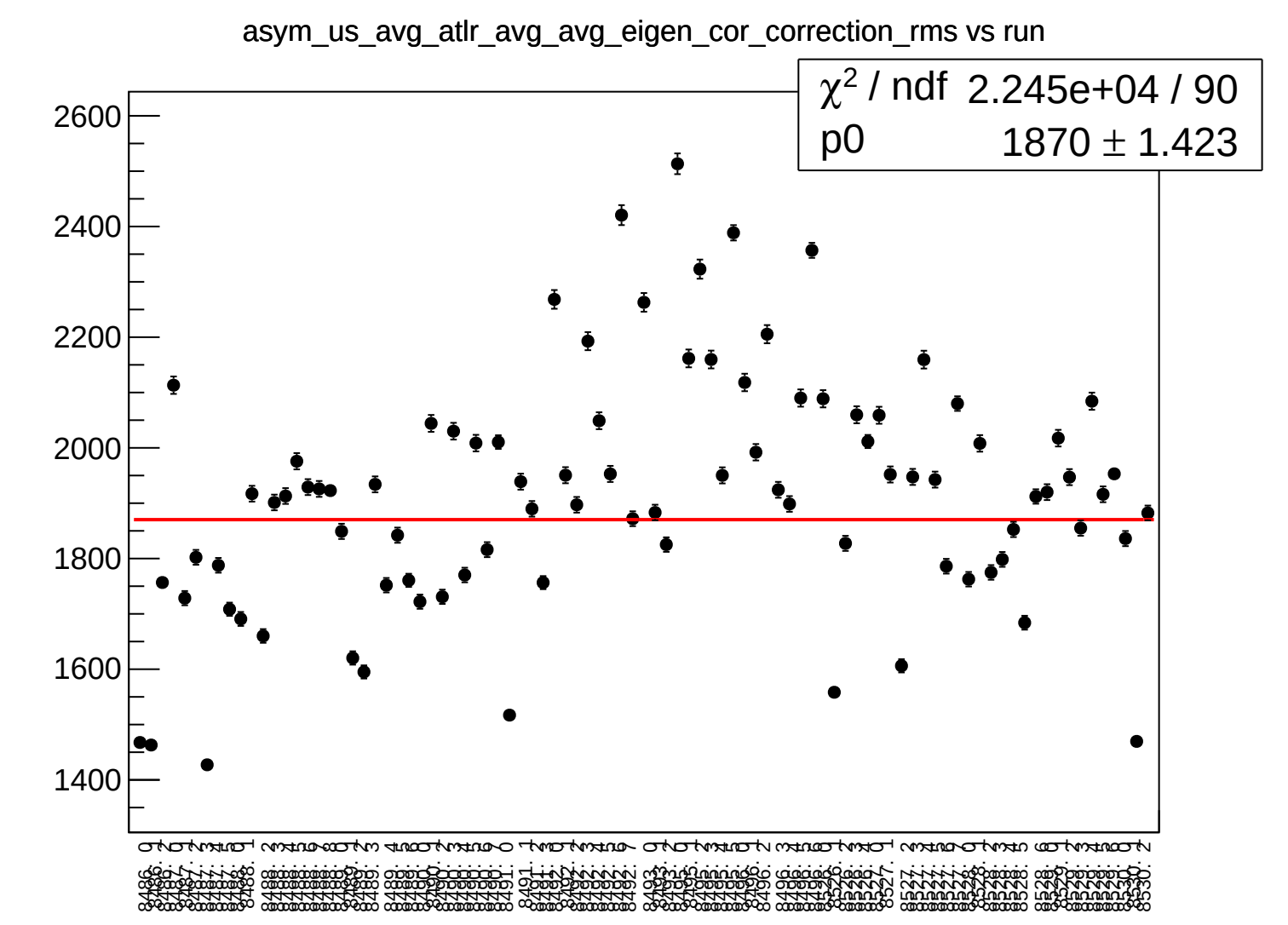

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ² / ndf 94.49 / 90
p0 −1.414e+04 ± 1.67e+04
pull
Entries 91
Mean −455.9
Std Dev 0

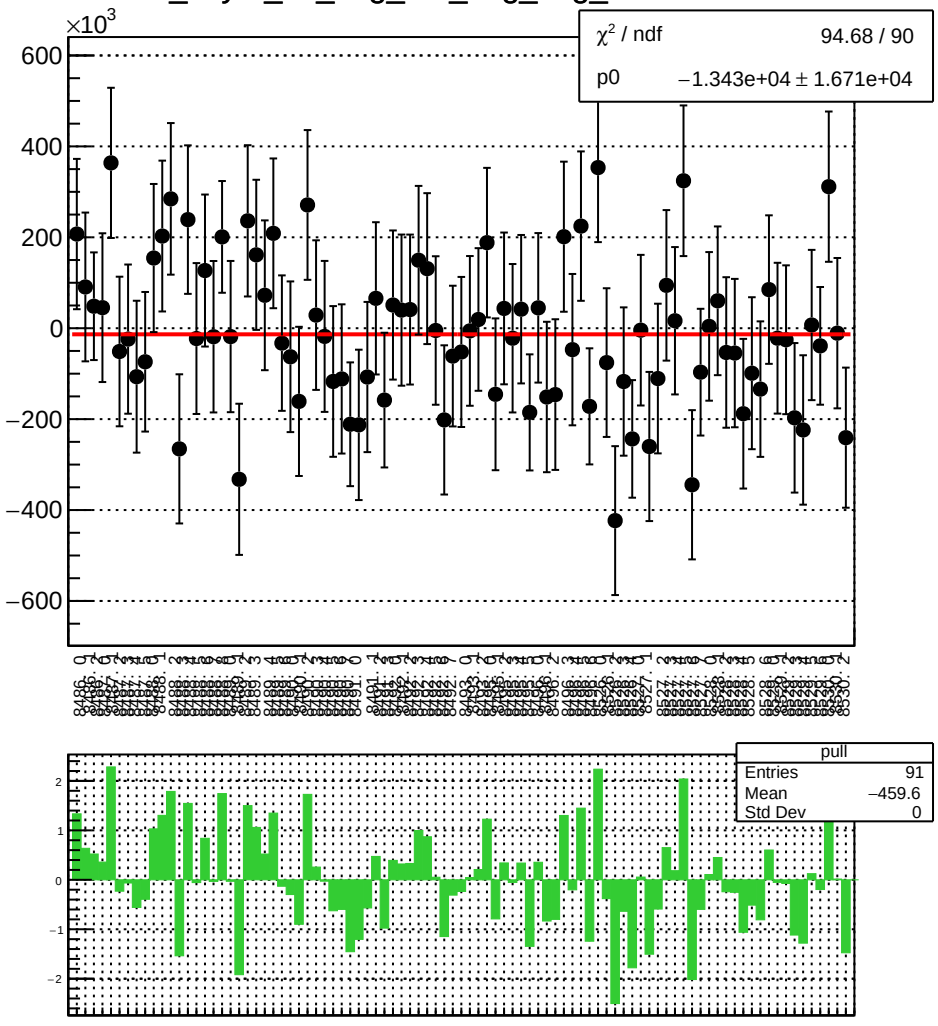

pull1D
Entries 91
Mean 0.0142
Std Dev 1.019

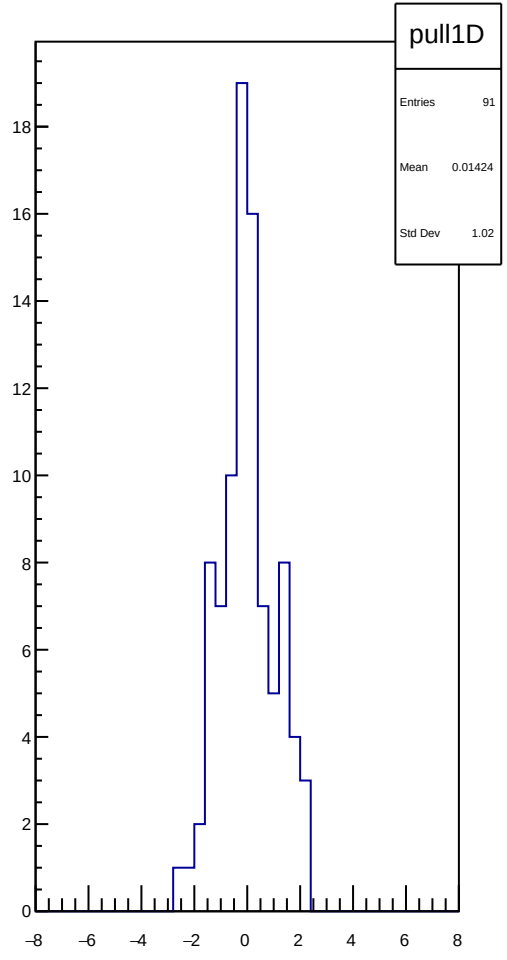

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 97.07 / 90
p0 1.562e+04 ± 11.81
16000
15900
15800
15700
15600
15500
15400
15300
15200

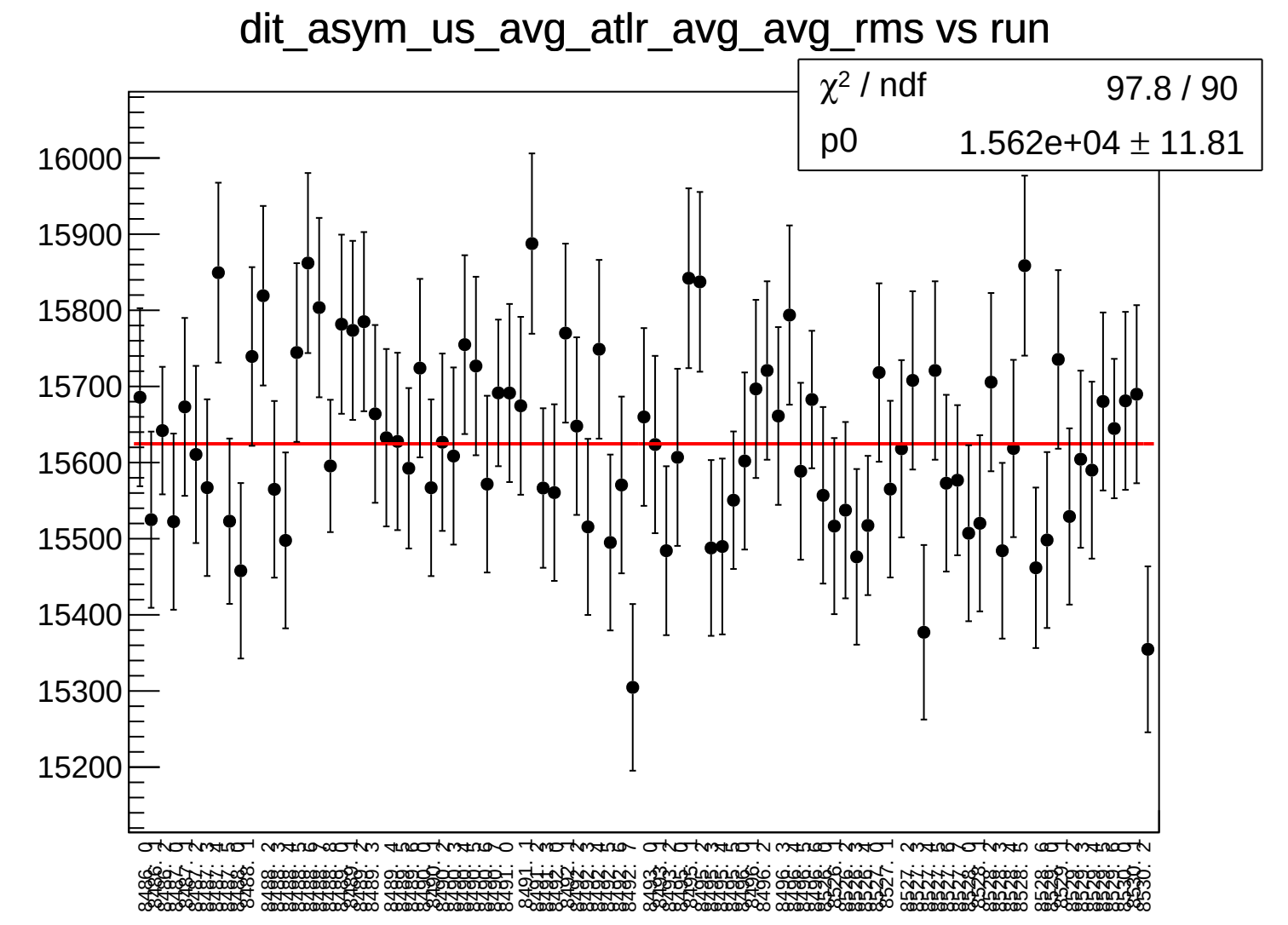

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
χ² / ndf 101.2 / 90
p0 −1657 ± 2013
pull
Entries 91
Mean 20.76
Std Dev 0

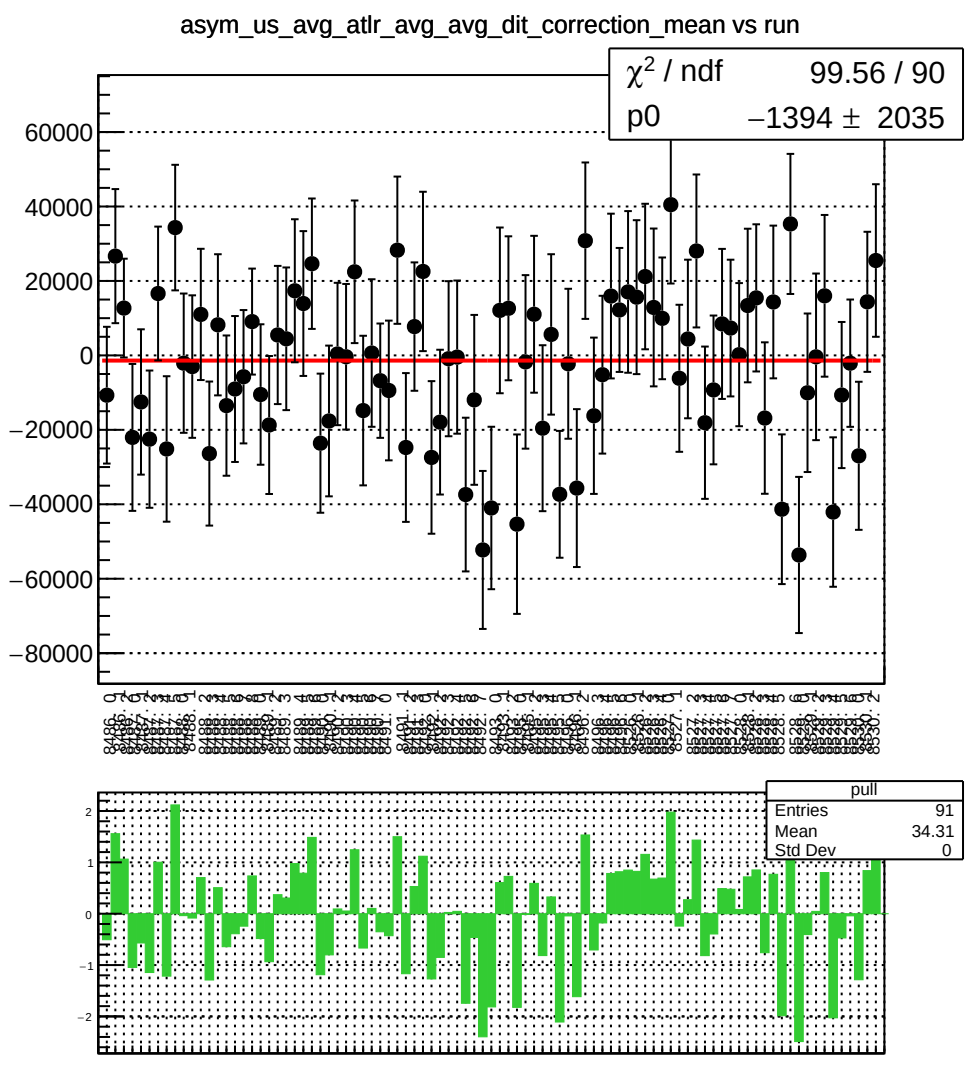

pull1D
Entries 91
Mean −0.03445
Std Dev 1.054

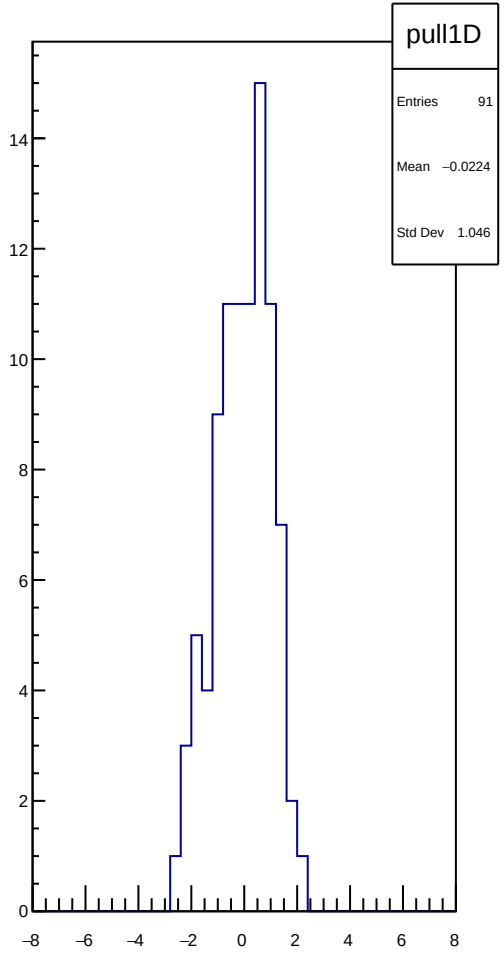

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.245e+04 / 90
p0 1870 ± 1.423
2600
2400
2200
2000
1800
1600
1400

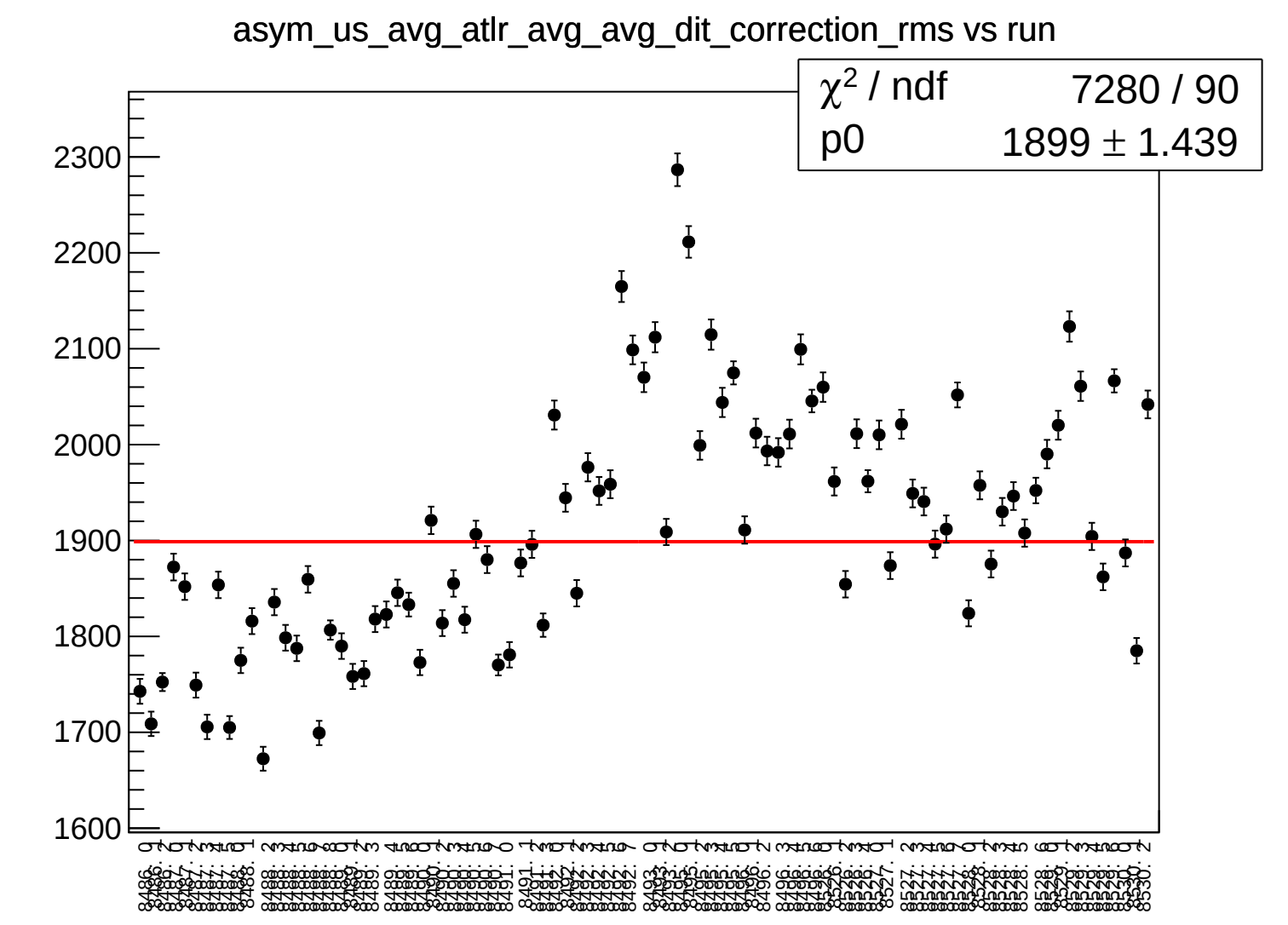

dit_asym_us_avg_atlr_avg_avg_mean vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 94.68 / 90
p0 −1.343e+04 ± 1.671e+04
pull
Entries 91
Mean −459.6
Std Dev 0
2
1
0
−1
−2

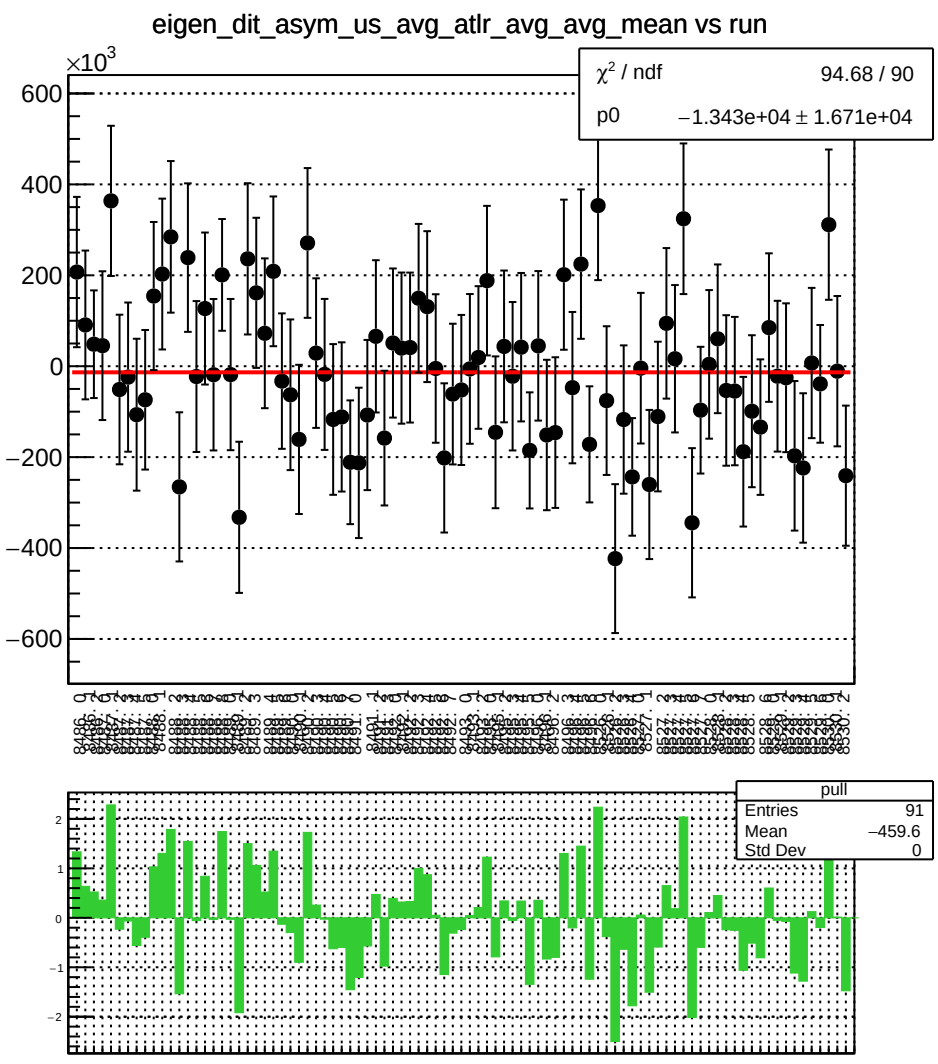

pull1D
Entries 91
Mean 0.01424
Std Dev 1.02
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

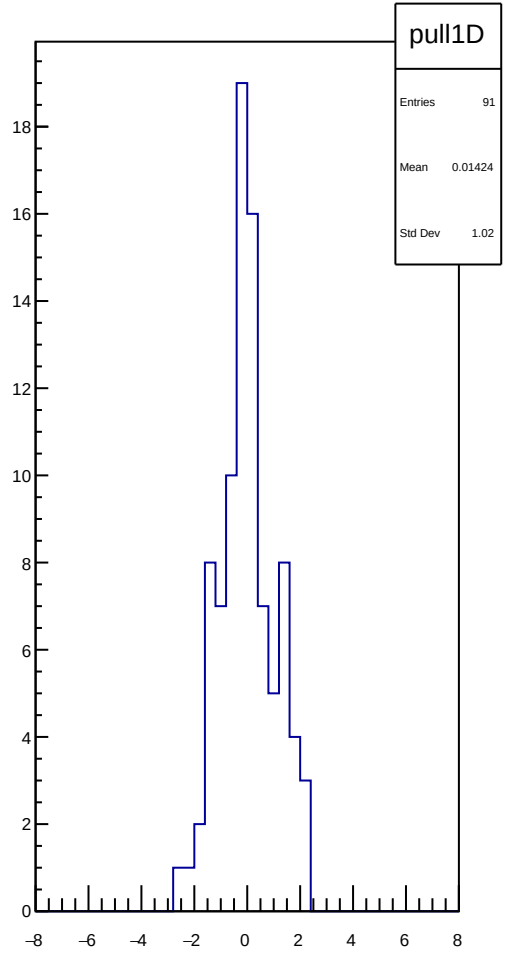

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 97.8 / 90
p0 1.562e+04 ± 11.81
16000
15900
15800
15700
15600
15500
15400
15300
15200

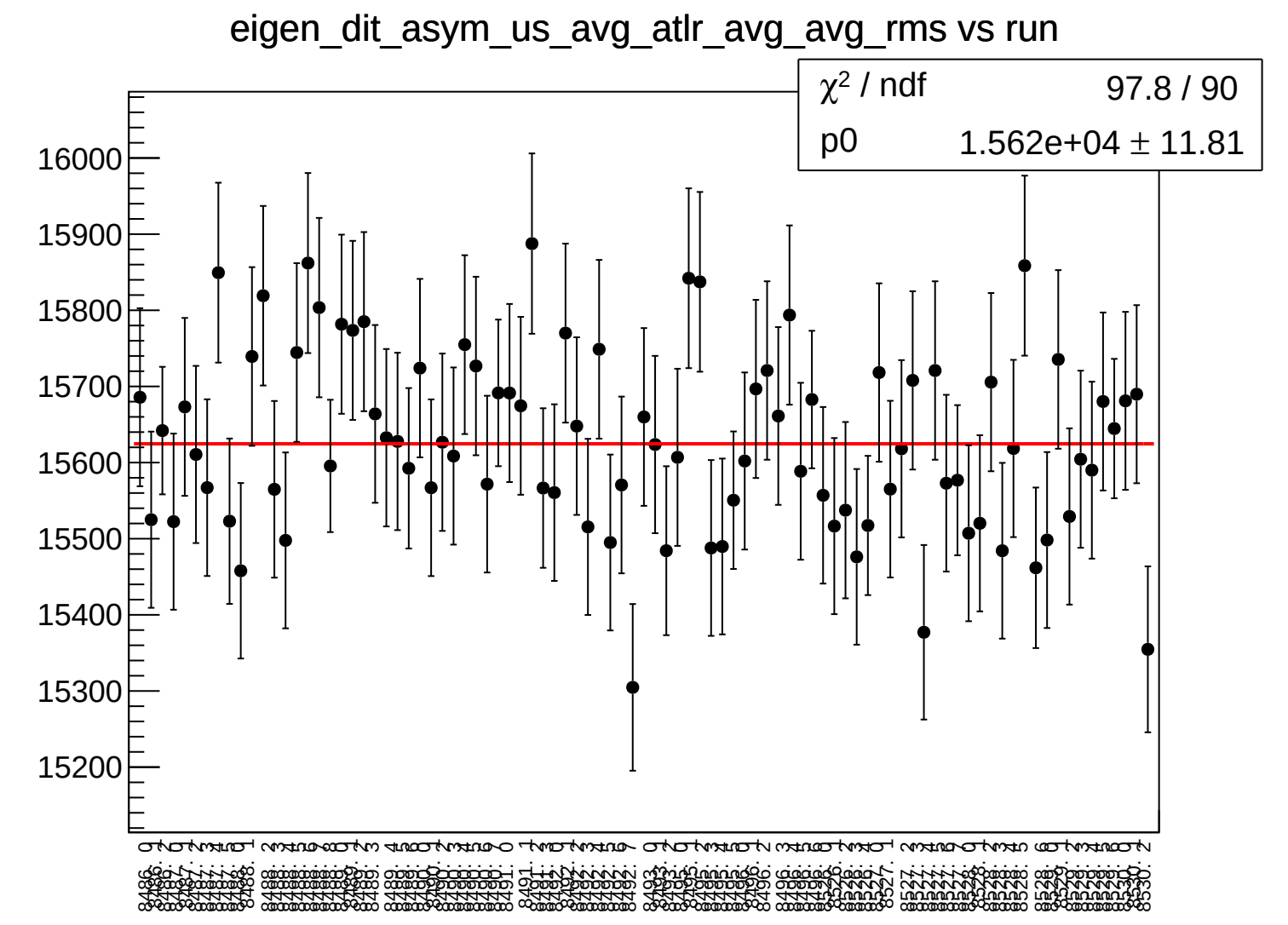

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
χ² / ndf 99.56 / 90
p0 −1394 ± 2035
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean 34.31
Std Dev 0
2
1
0
−1
−2

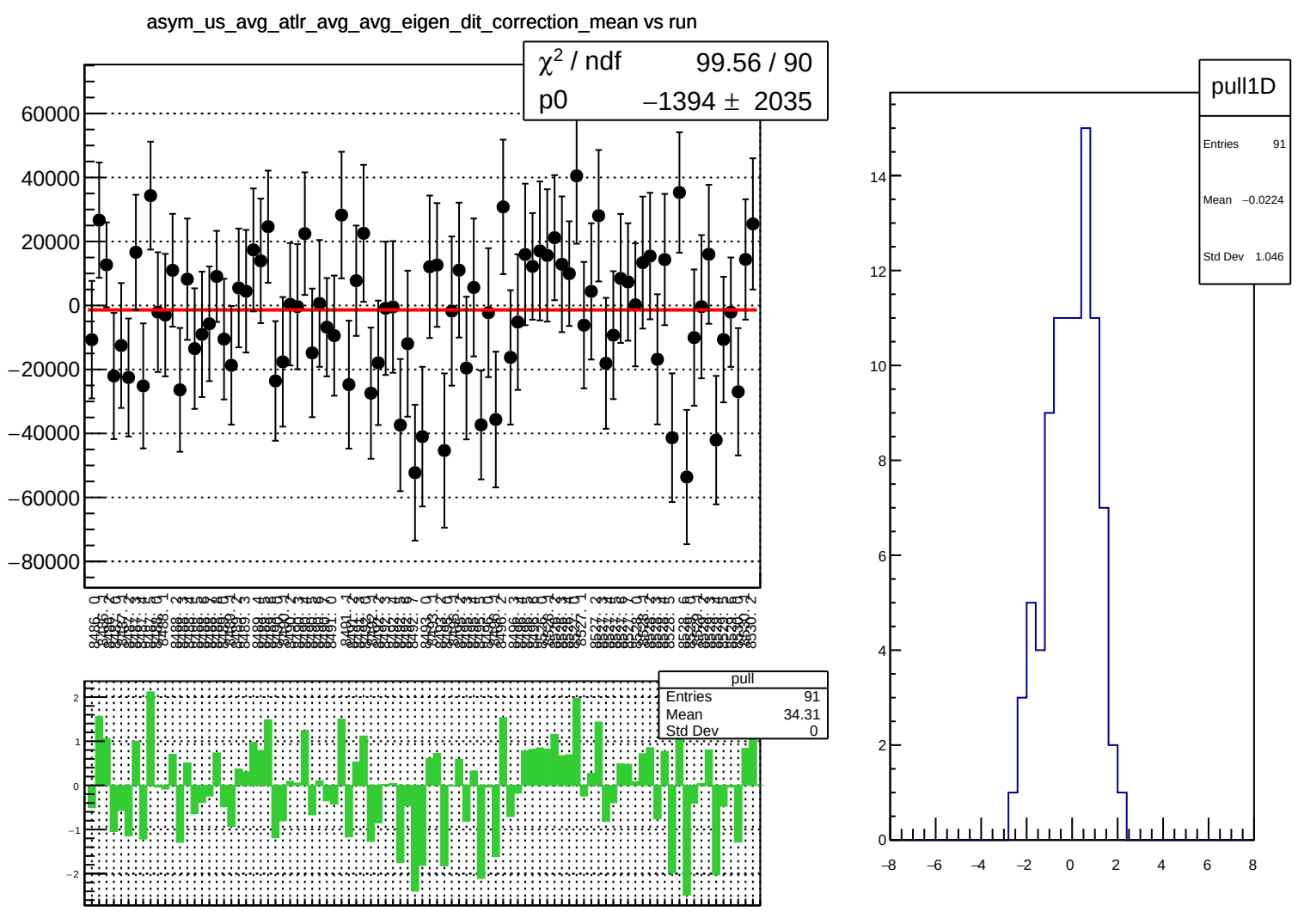

pull1D
Entries 91
Mean −0.0224
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

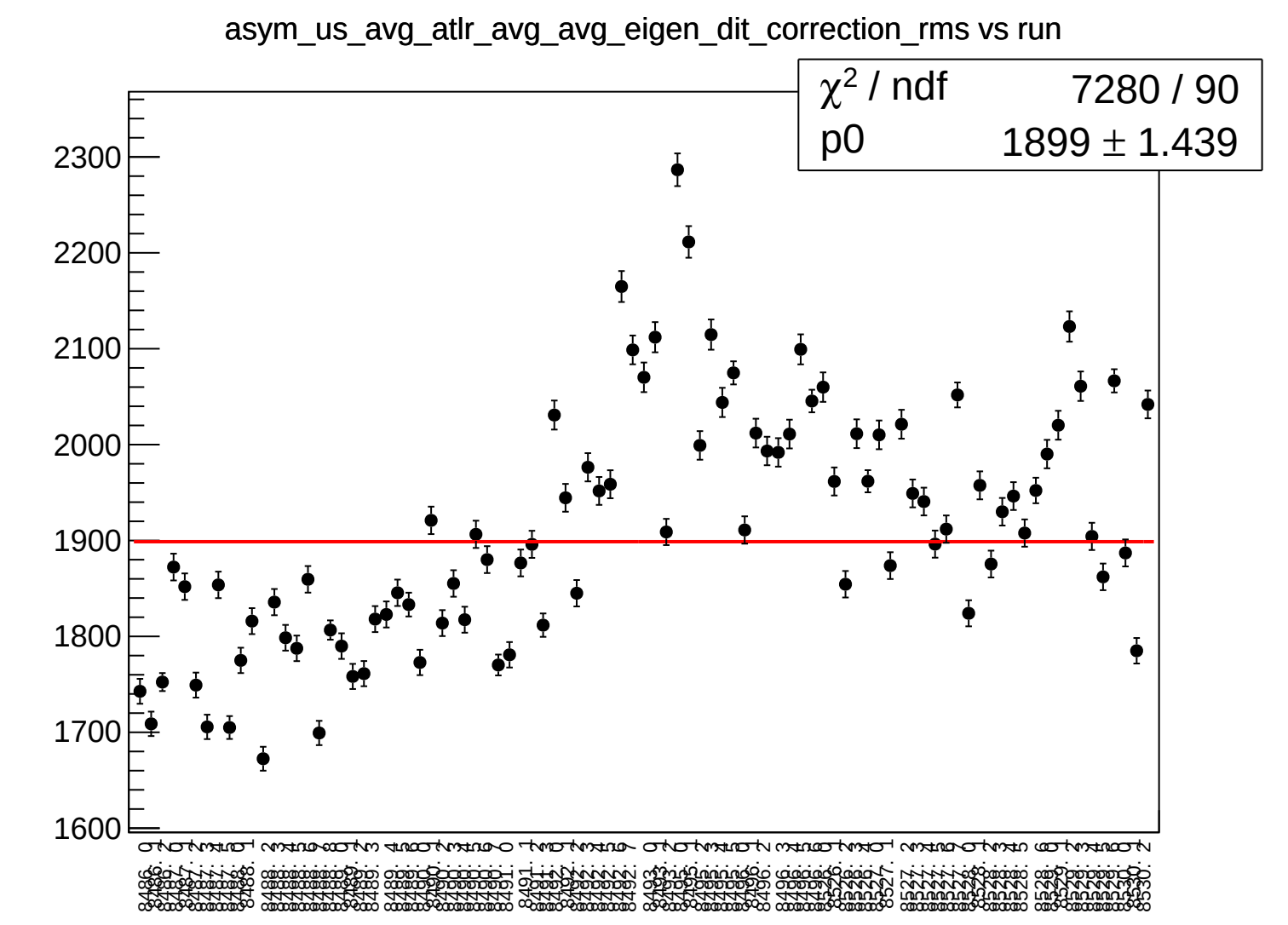

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ² / ndf 7280 / 90
p0 1899 ± 1.439
2300
2200
2100
2000
1900
1800
1700
1600

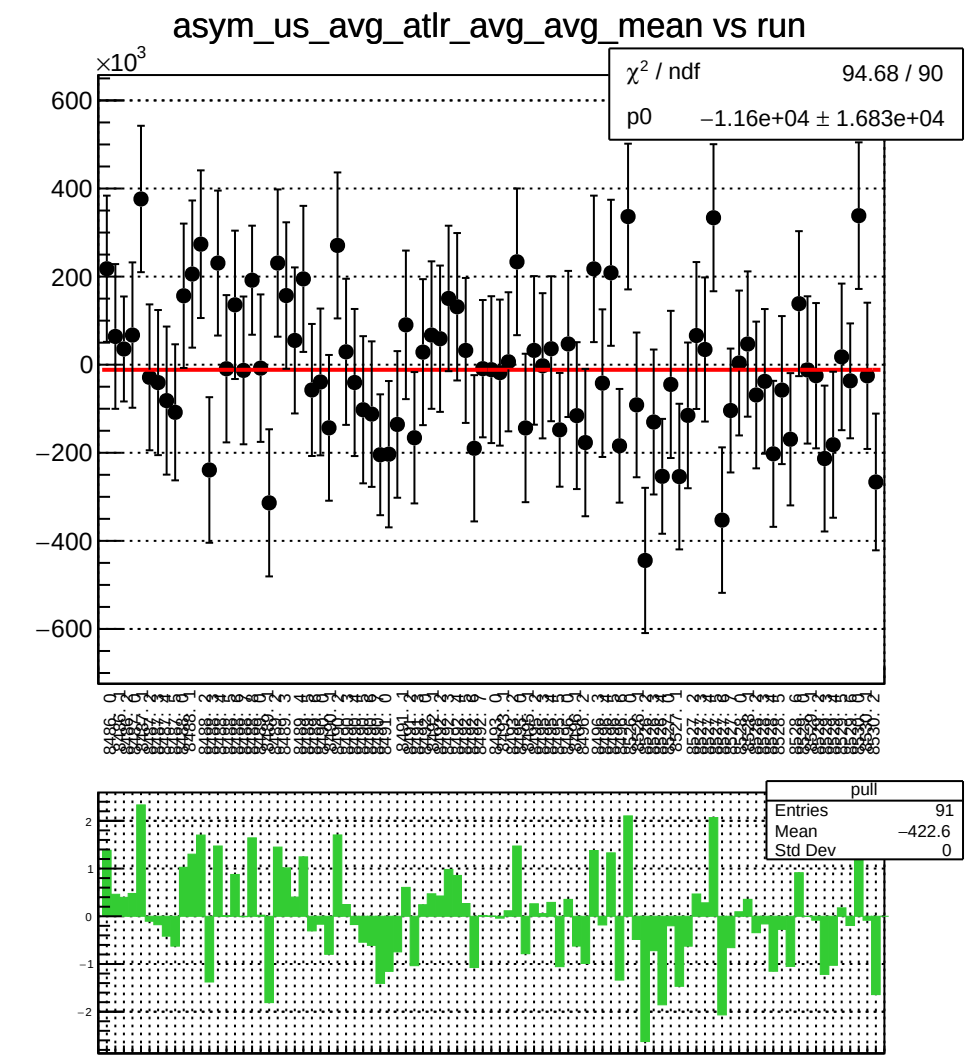

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 94.68 / 90
p0 −1.343e+04 ± 1.671e+04
pull
Entries 91
Mean −459.6
Std Dev 0
2
1
0
−1
−2

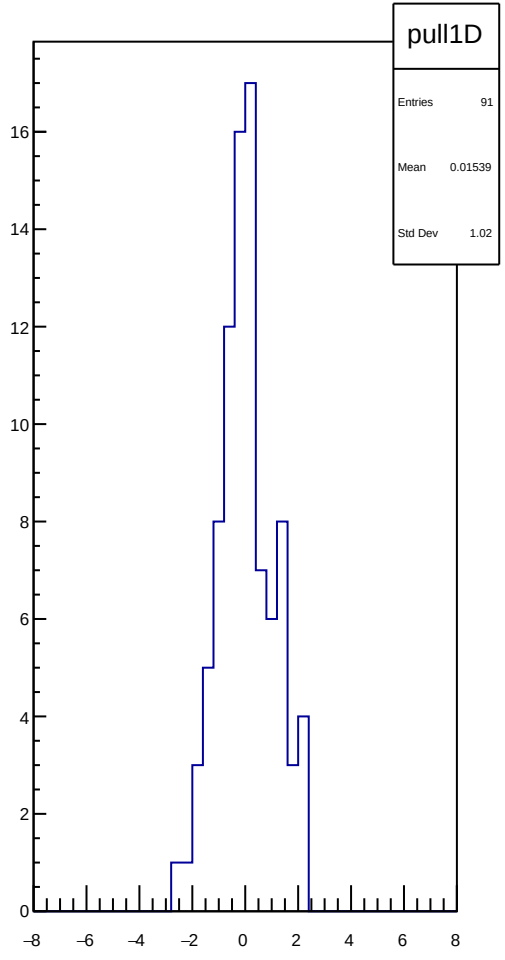

pull1D
Entries 91
Mean 0.01424
Std Dev 1.02
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

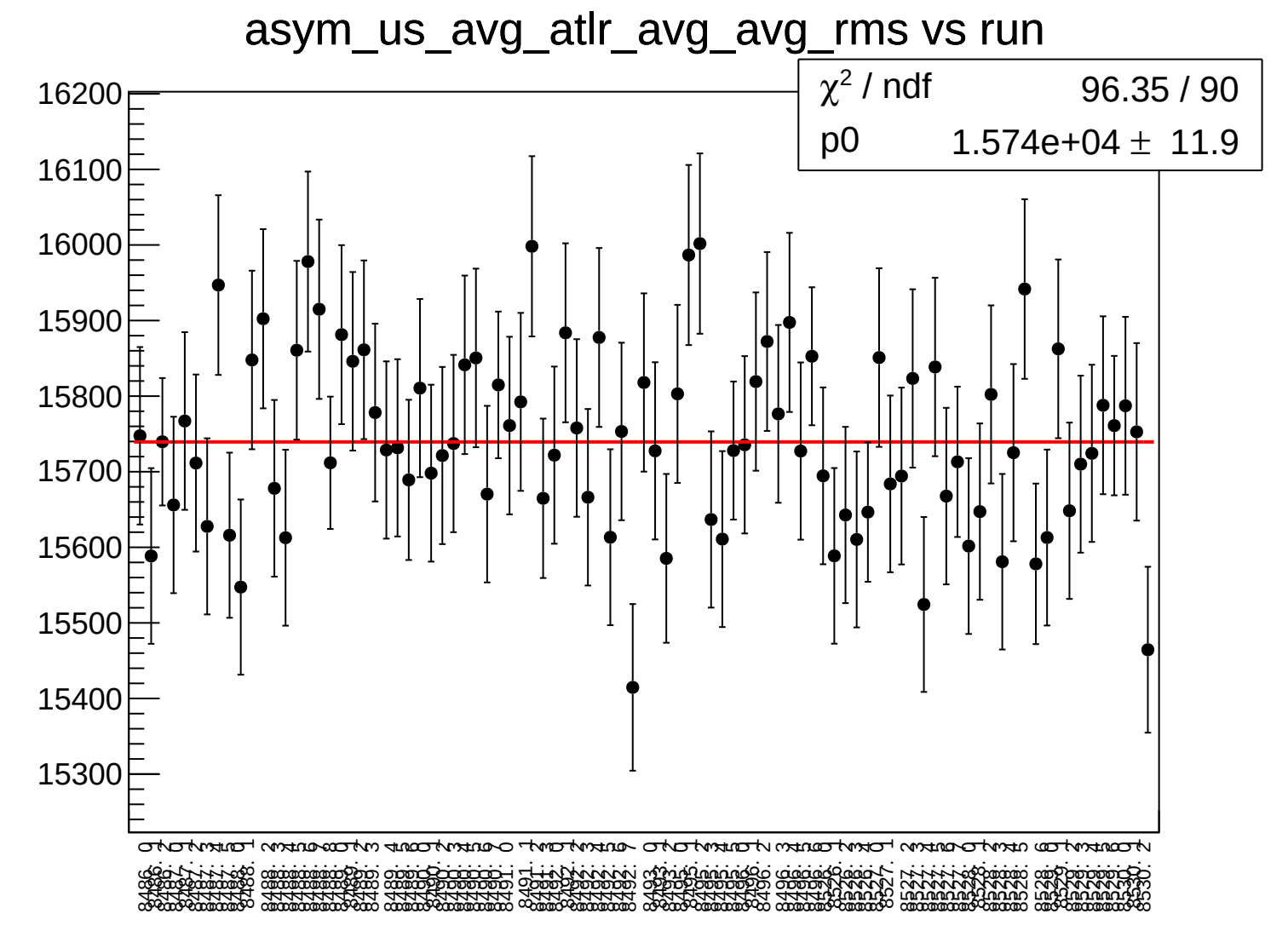

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 97.8 / 90
p0 1.562e+04 ± 11.81
16000
15900
15800
15700
15600
15500
15400
15300
15200

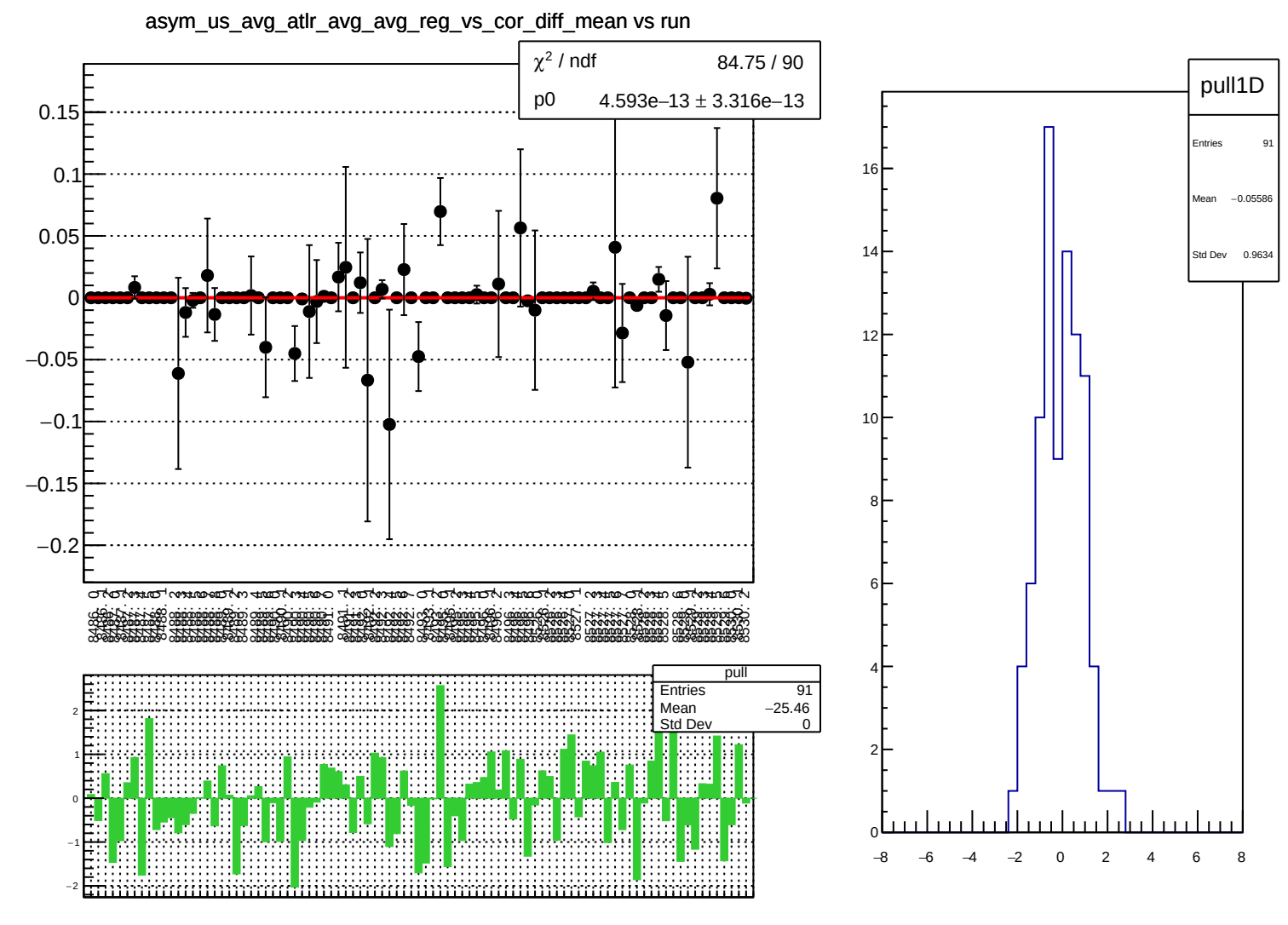

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
χ² / ndf 99.56 / 90
p0 −1394 ± 2035
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean 34.31
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.0224
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

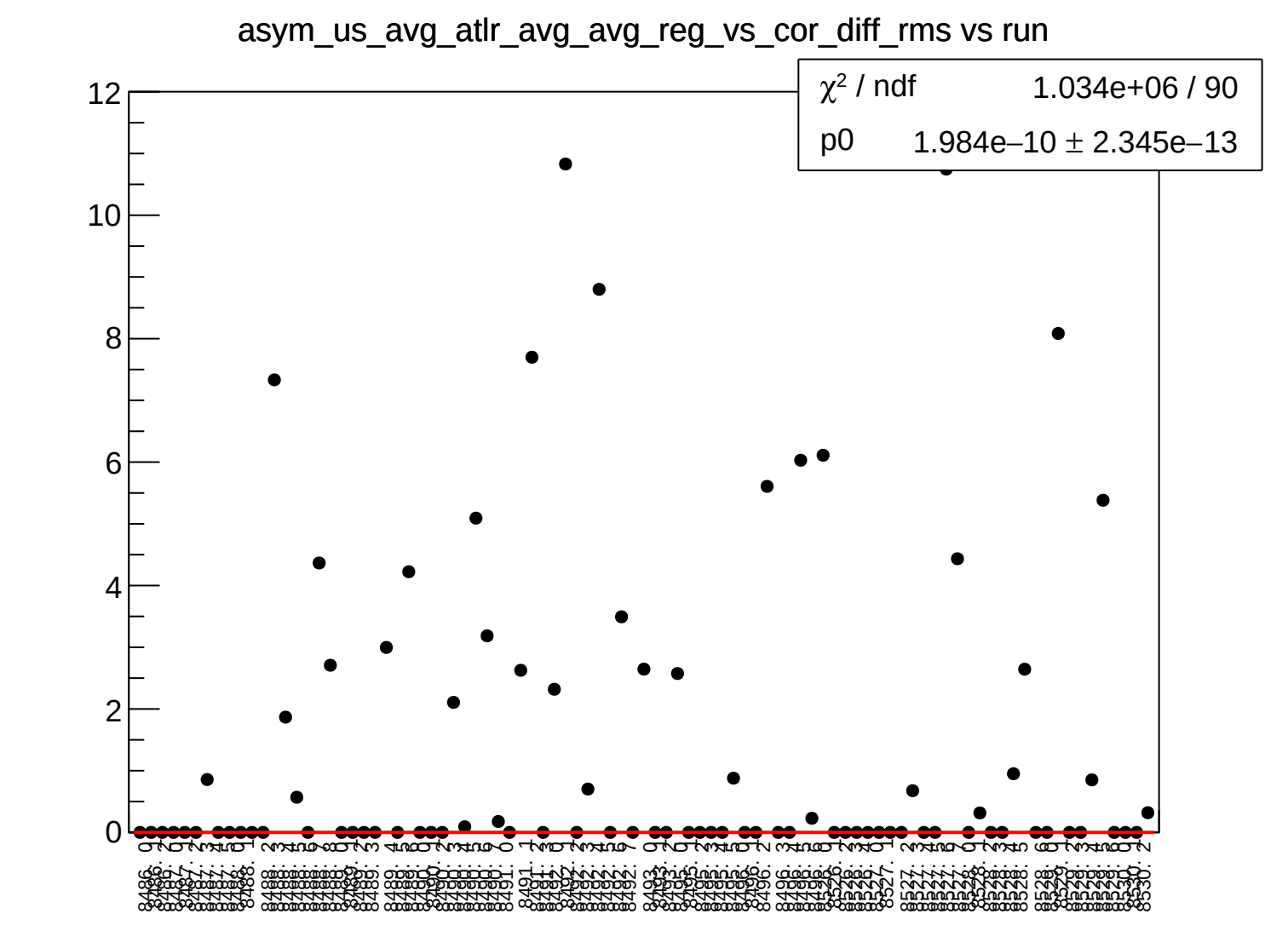

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 7280 / 90
p0 1899 ± 1.439
2300
2200
2100
2000
1900
1800
1700
1600

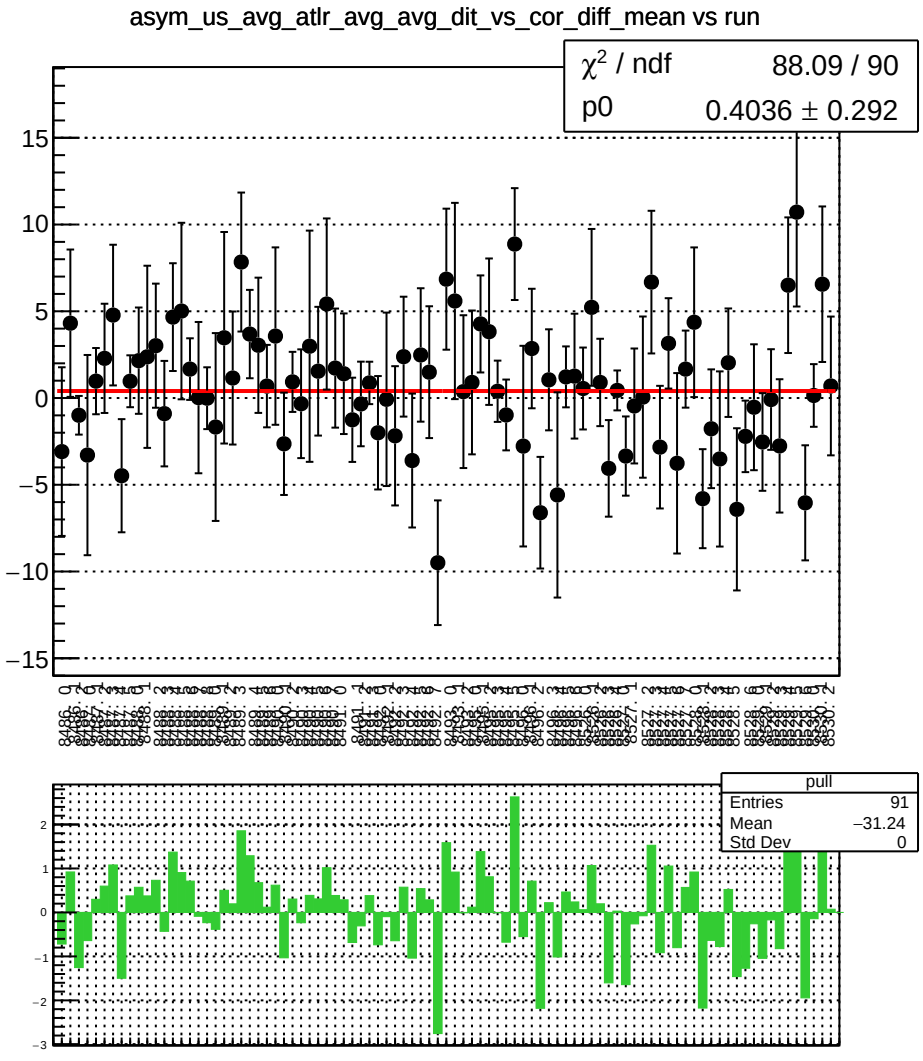

asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ² / ndf 94.68 / 90
p0 −1.16e+04 ± 1.683e+04
600
400
200
0
−200
−400
−600
pull
Entries 91
Mean −422.6
Std Dev 0
2
1
0
−1
−2

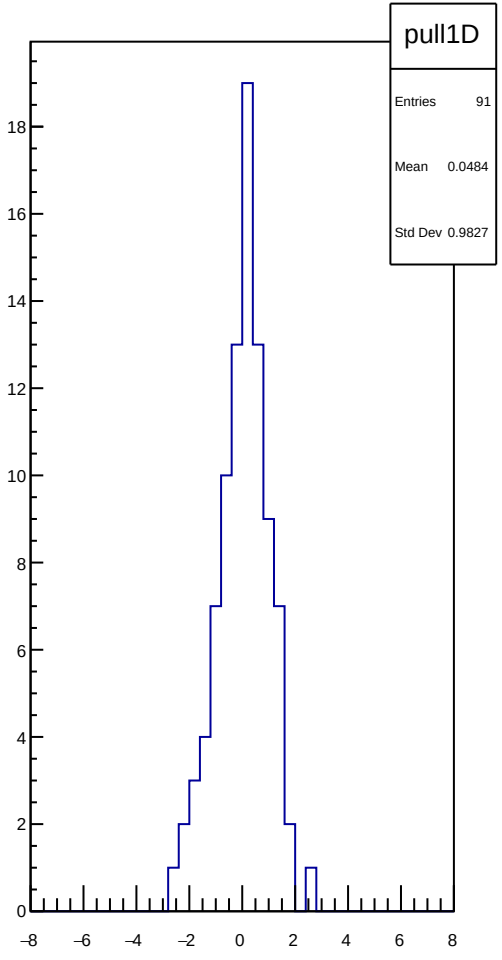

pull1D
Entries 91
Mean 0.01539
Std Dev 1.02
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

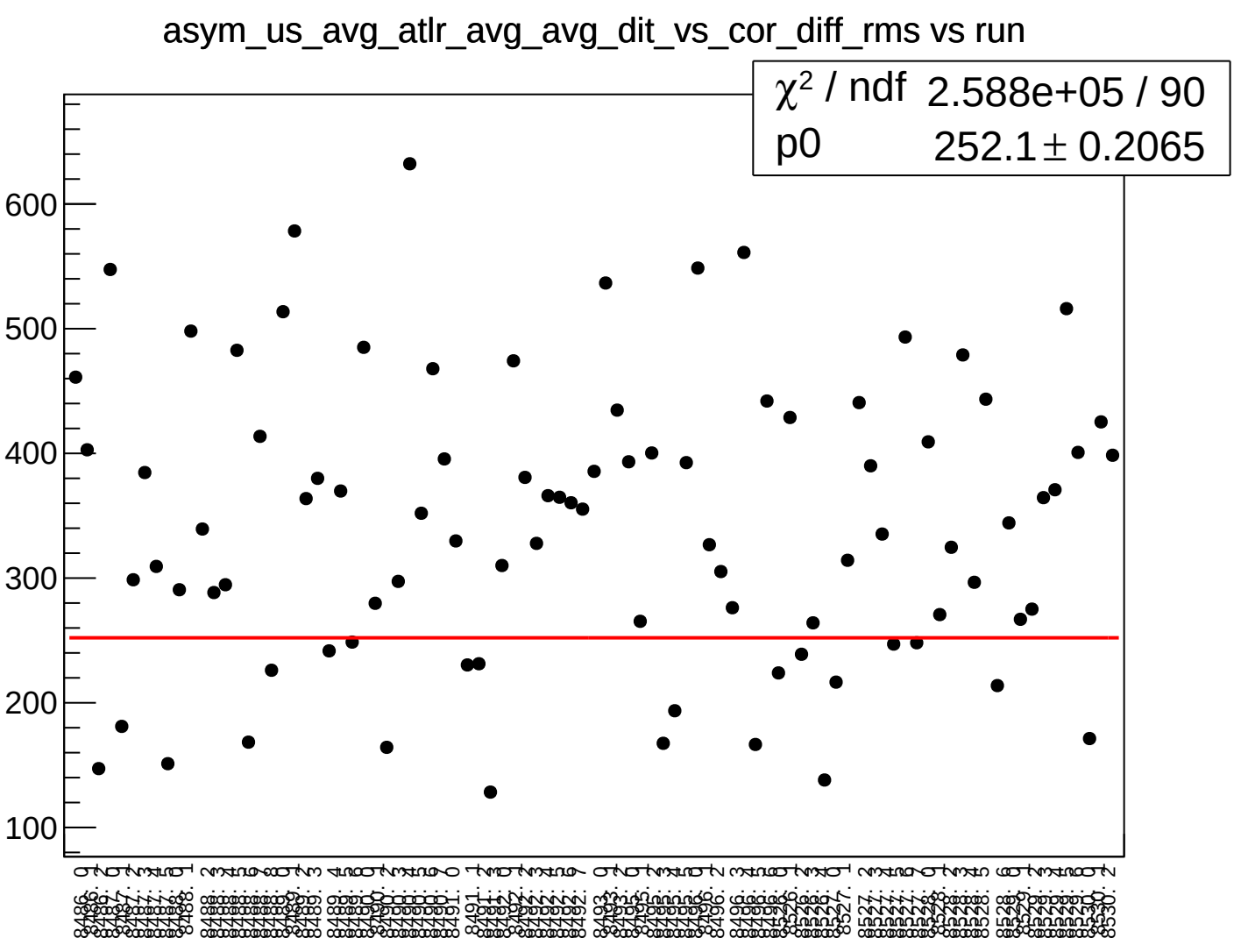

asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 96.35 / 90
p0 1.574e+04 ± 11.9
16200
16100
16000
15900
15800
15700
15600
15500
15400
15300

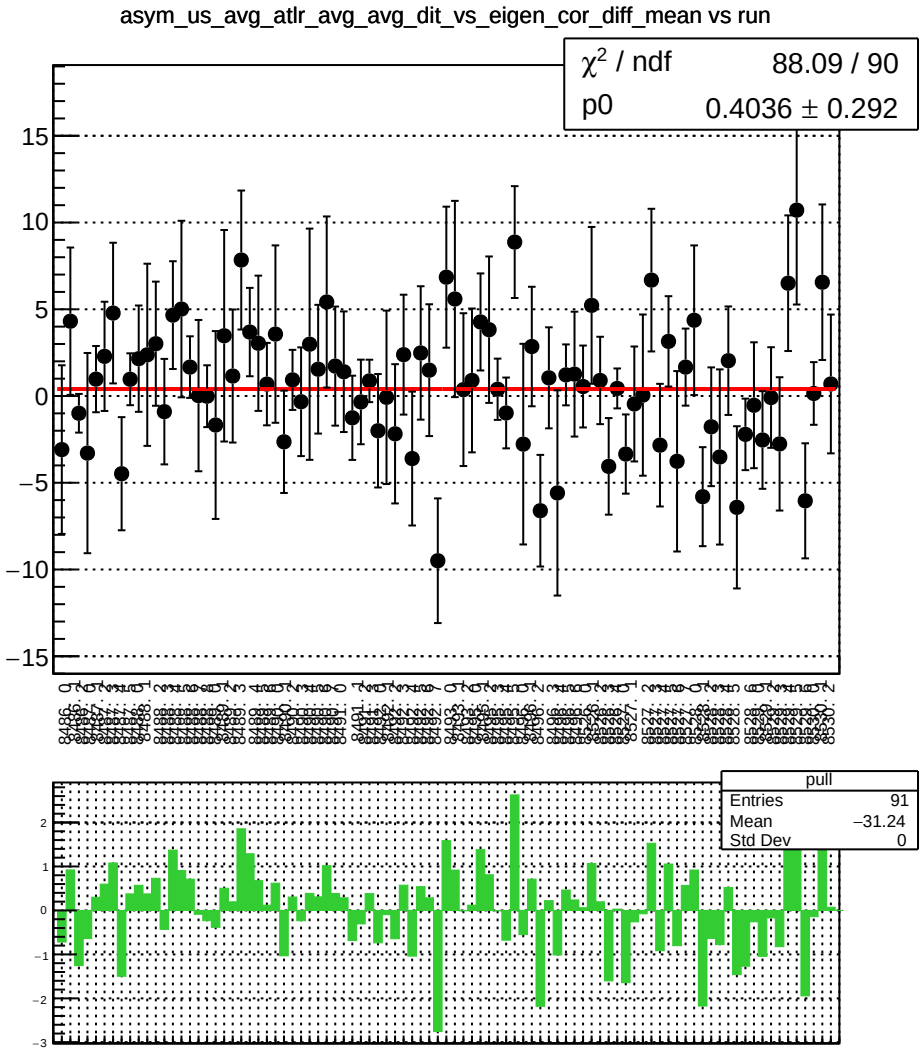

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.75 / 90
p0 4.593e−13 ± 3.316e−13
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 91
Mean −25.46
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.05586
Std Dev 0.9634
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

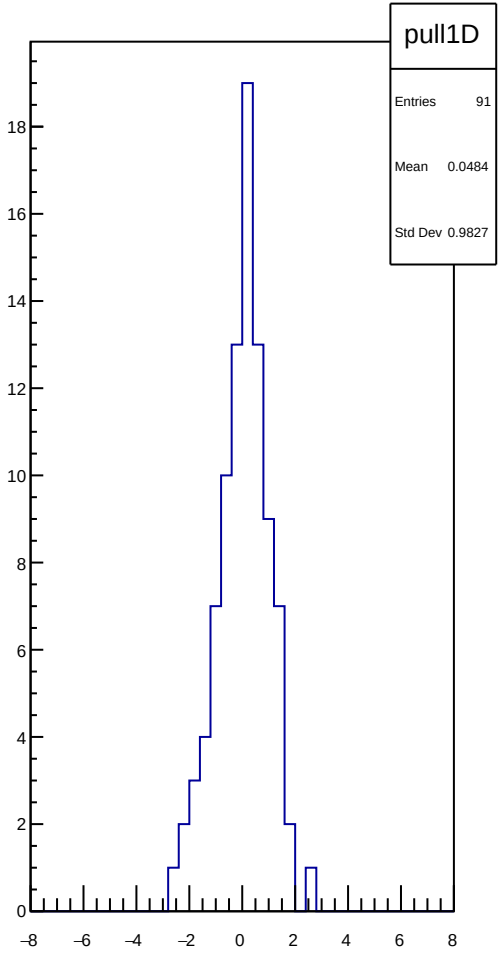

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.034e+06 / 90
p0 1.984e−10 ± 2.345e−13
12
10
8
6
4
2
0

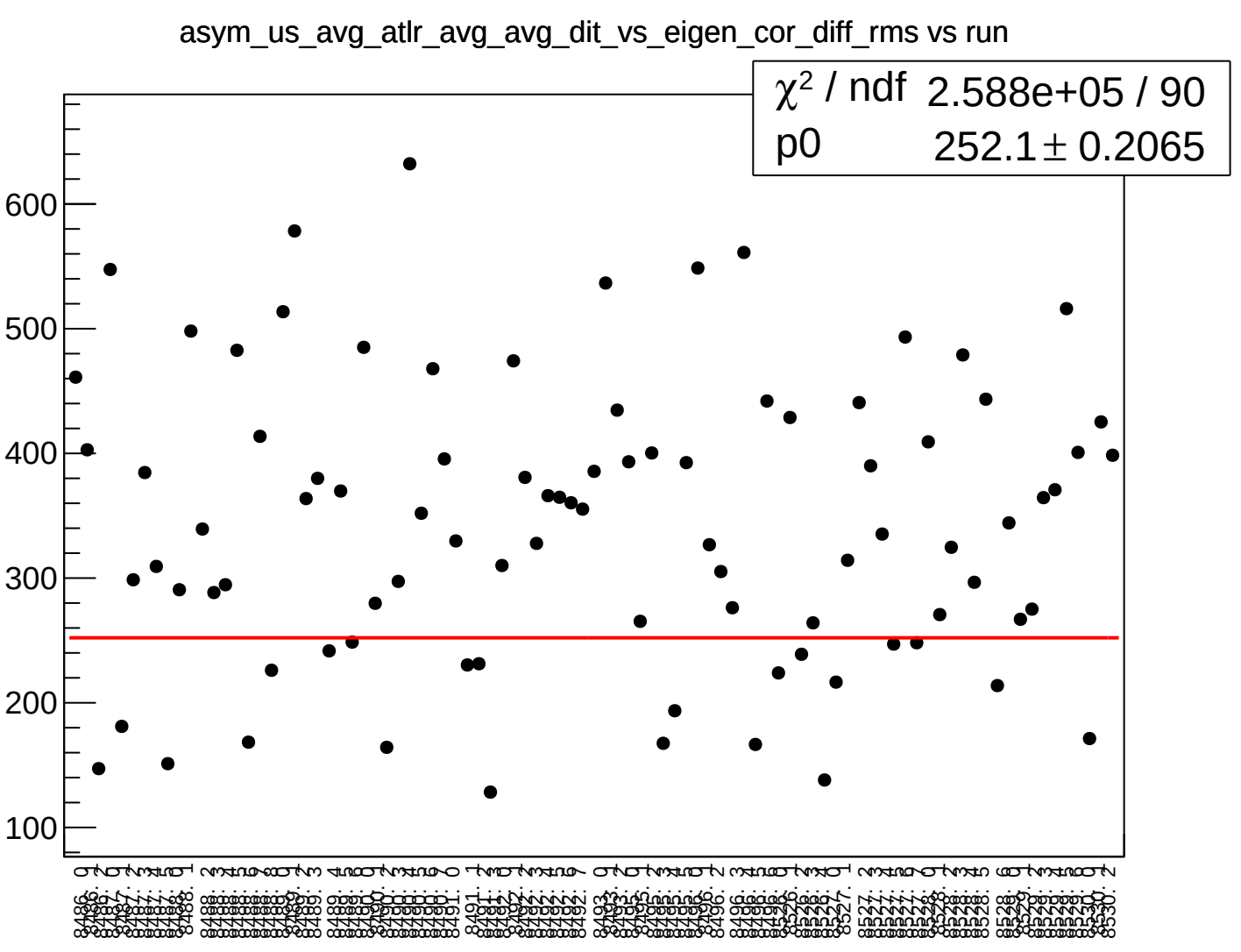

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 88.09 / 90
p0 0.4036 ± 0.292
pull
Entries 91
Mean −31.24
Std Dev 0

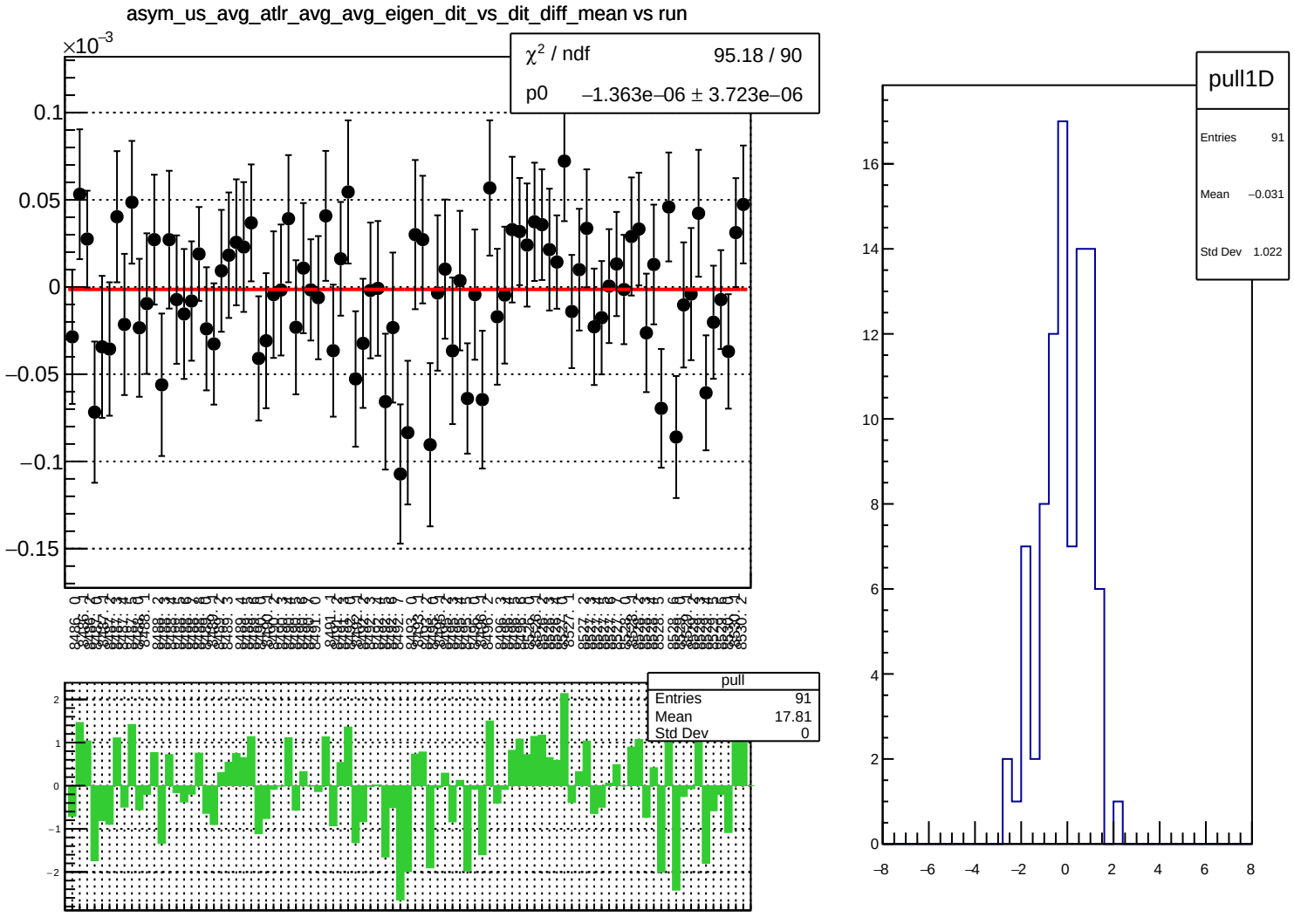

pull1D
Entries 91
Mean 0.0484
Std Dev 0.9827

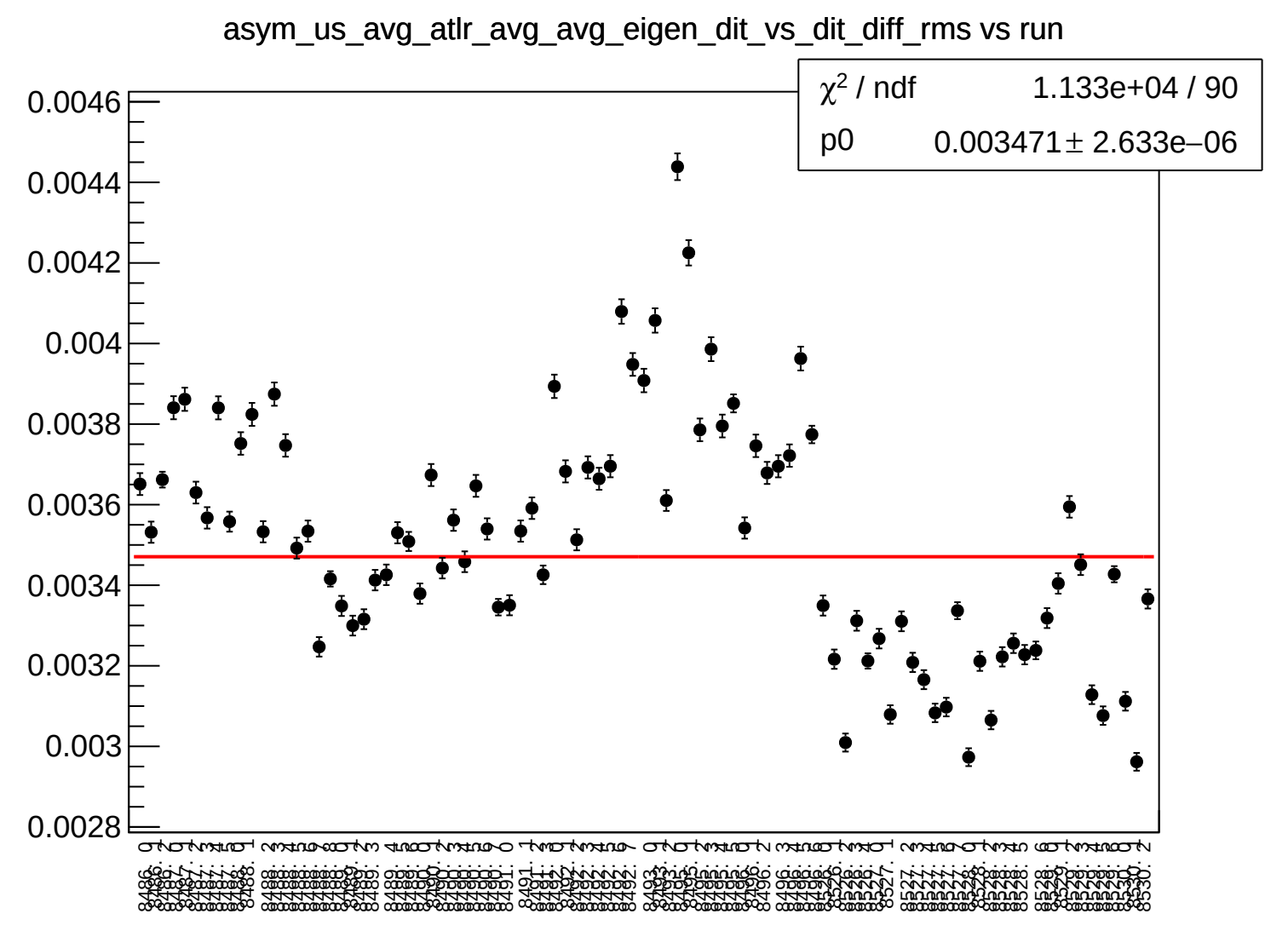

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.588e+05 / 90
p0 252.1 ± 0.2065
600
500
400
300
200
100

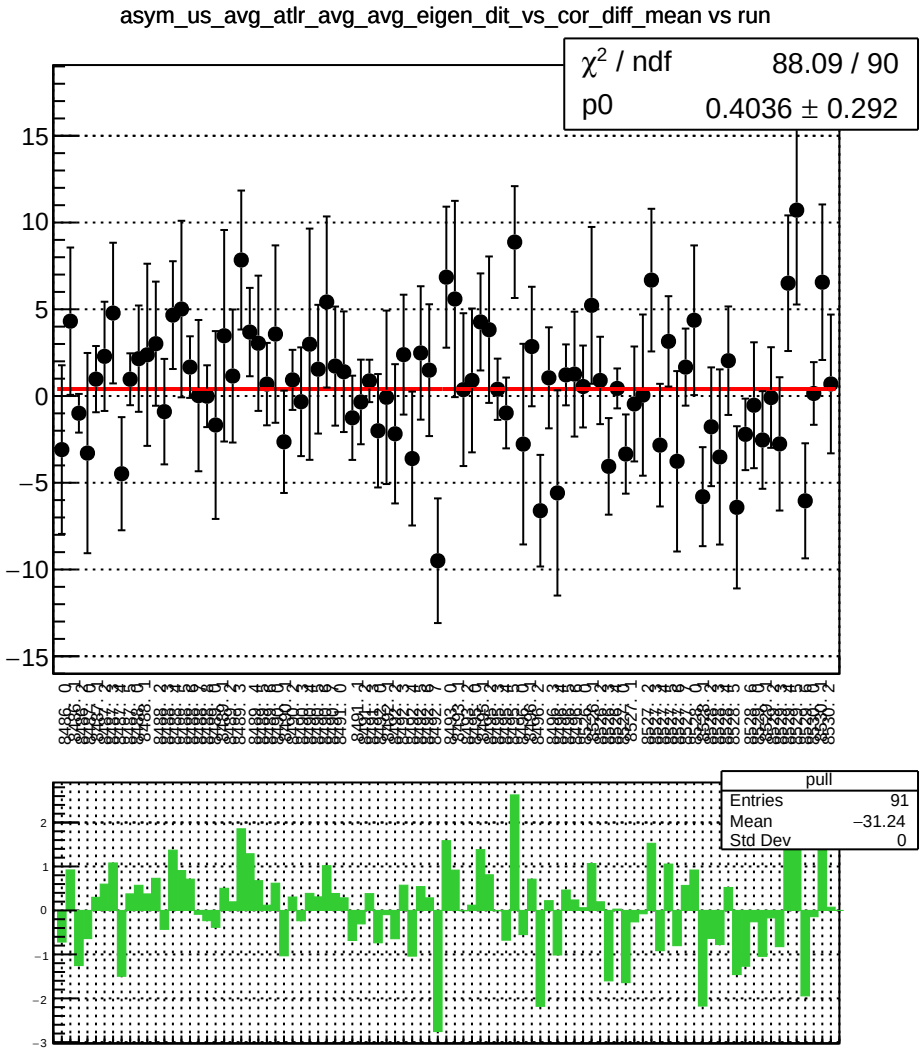

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.09 / 90
p0 0.4036 ± 0.292
pull
Entries 91
Mean −31.24
Std Dev 0

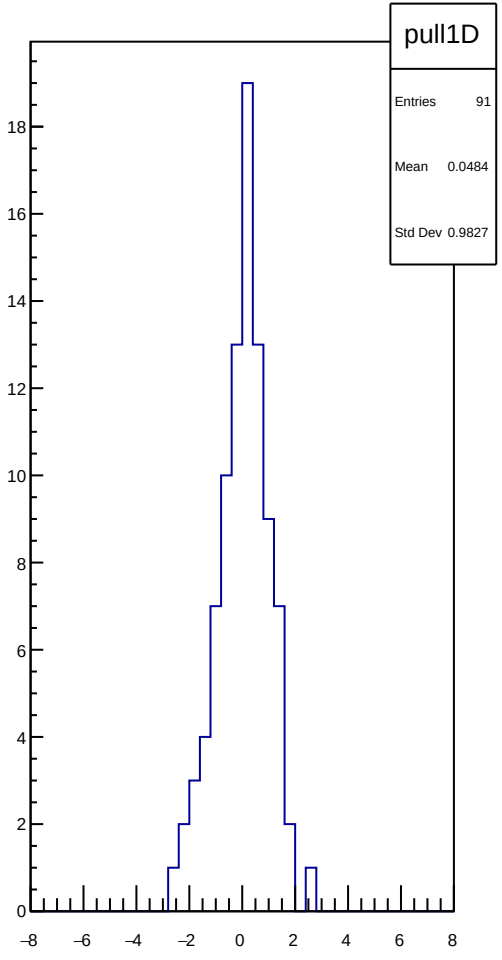

pull1D
Entries 91
Mean 0.0484
Std Dev 0.9827

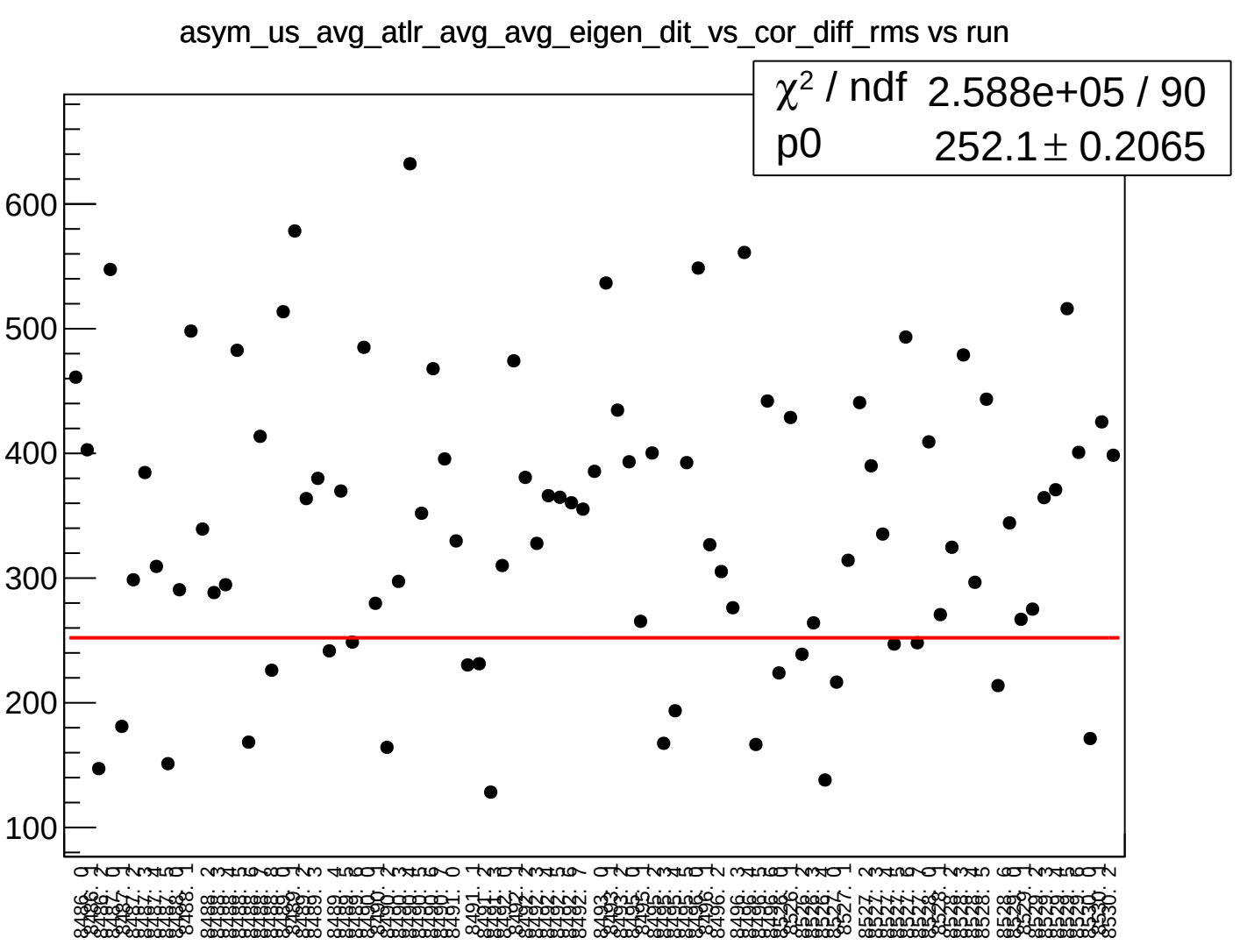

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.588e+05 / 90
p0 252.1 ± 0.2065
600
500
400
300
200
100

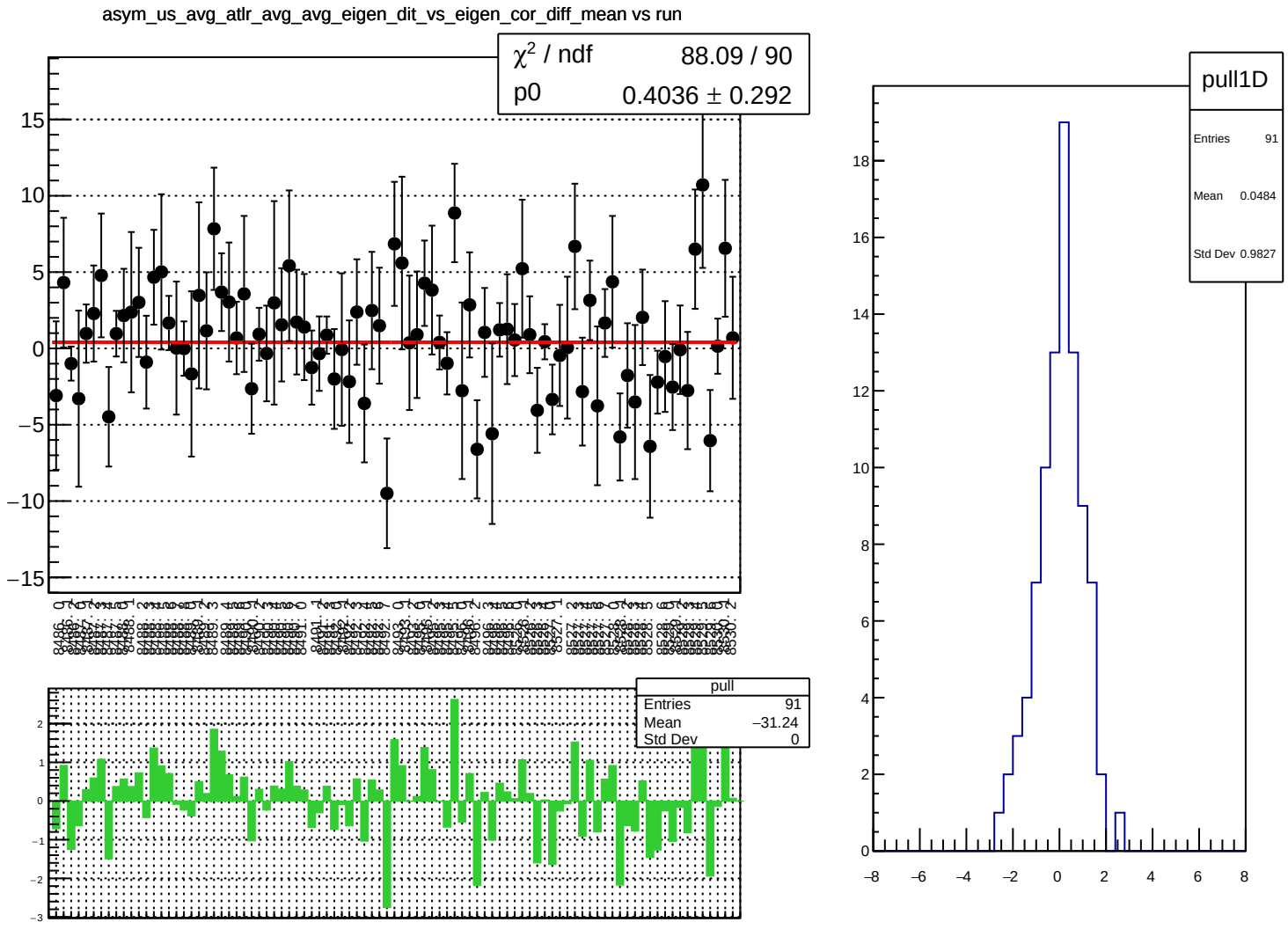

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.18 / 90
p0 −1.363e−06 ± 3.723e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 91
Mean 17.81
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.031
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

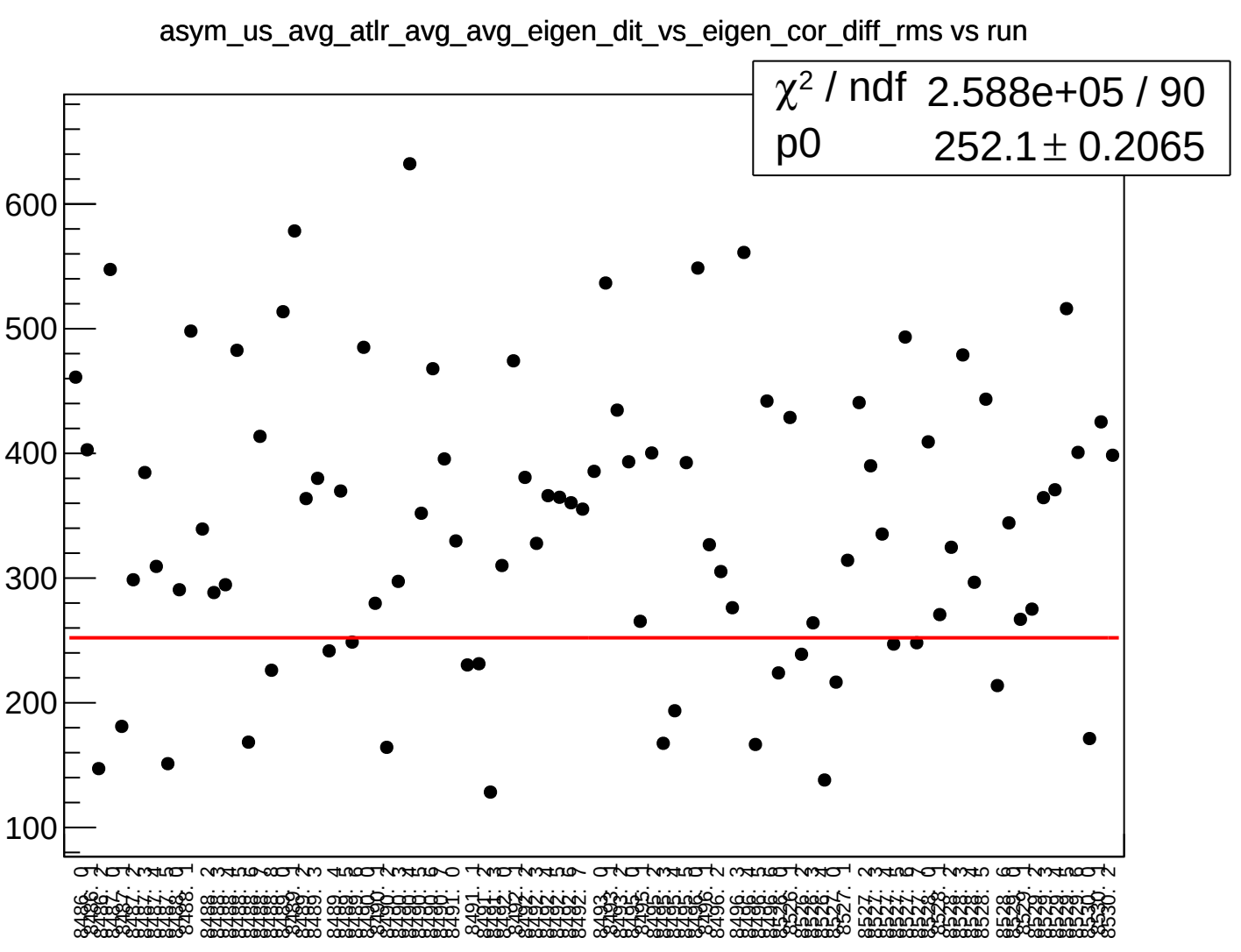

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.133e+04 / 90
p0 0.003471 ± 2.633e−06
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028

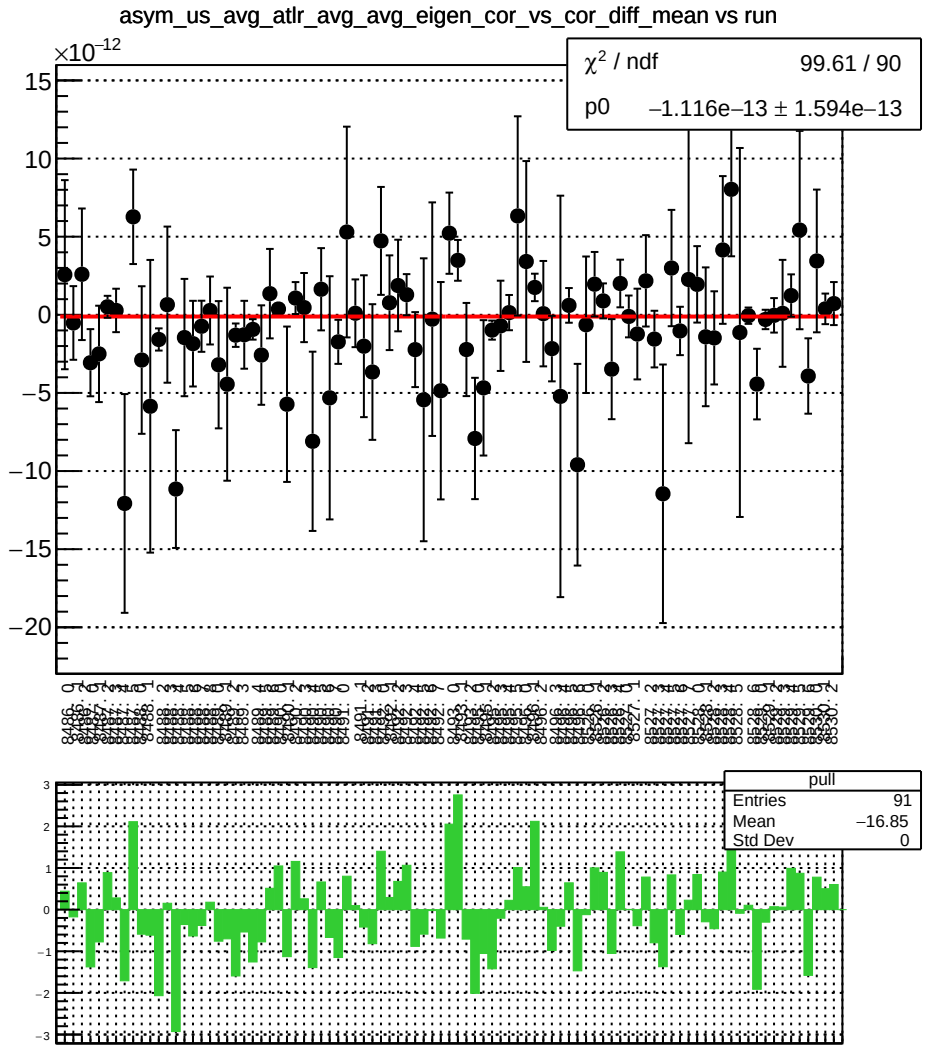

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.09 / 90
p0 0.4036 ± 0.292
pull
Entries 91
Mean −31.24
Std Dev 0

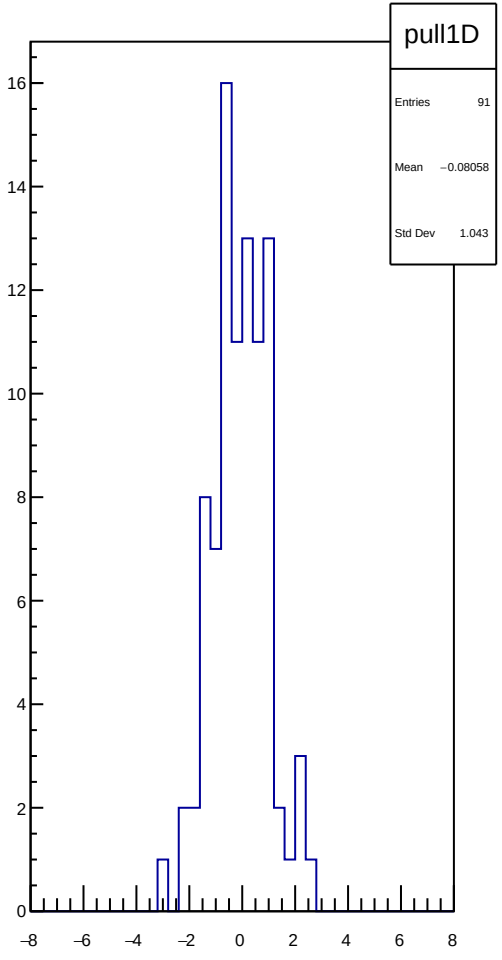

pull1D
Entries 91
Mean 0.0484
Std Dev 0.9827

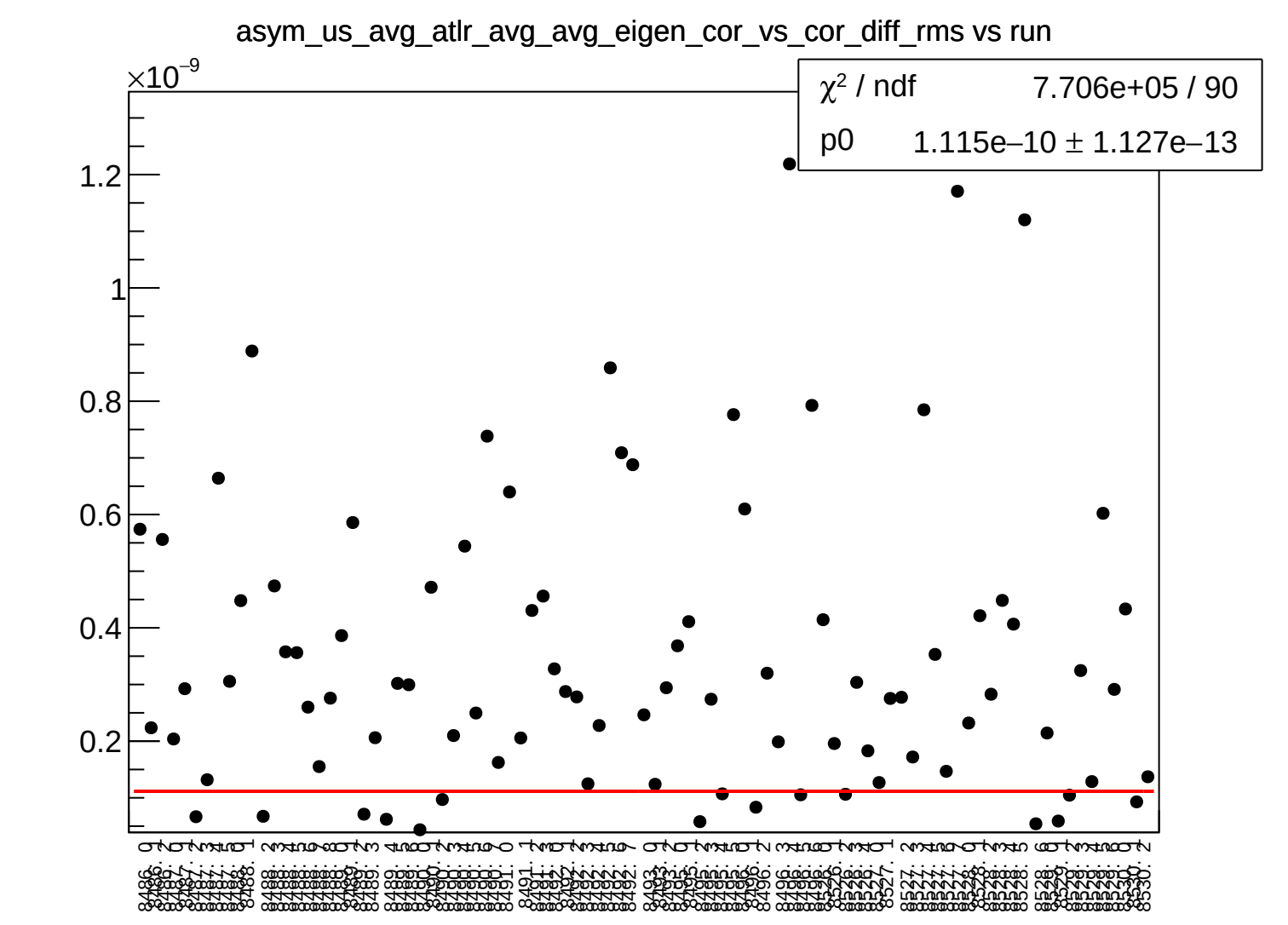

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.588e+05 / 90
p0 252.1 ± 0.2065
600
500
400
300
200
100

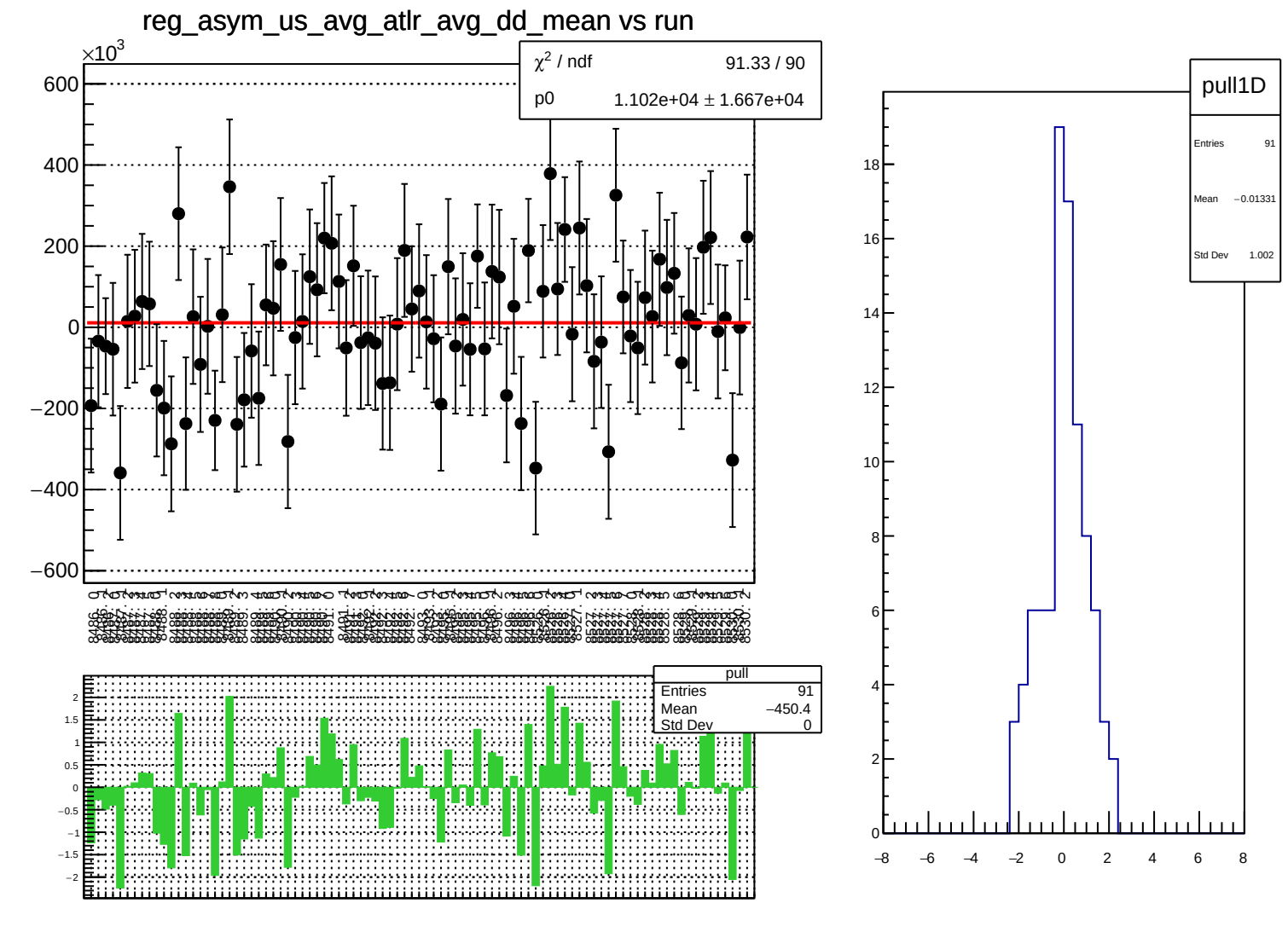

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.09 / 90
p0 0.4036 ± 0.292
pull
Entries 91
Mean −31.24
Std Dev 0
pull1D
Entries 91
Mean 0.0484
Std Dev 0.9827

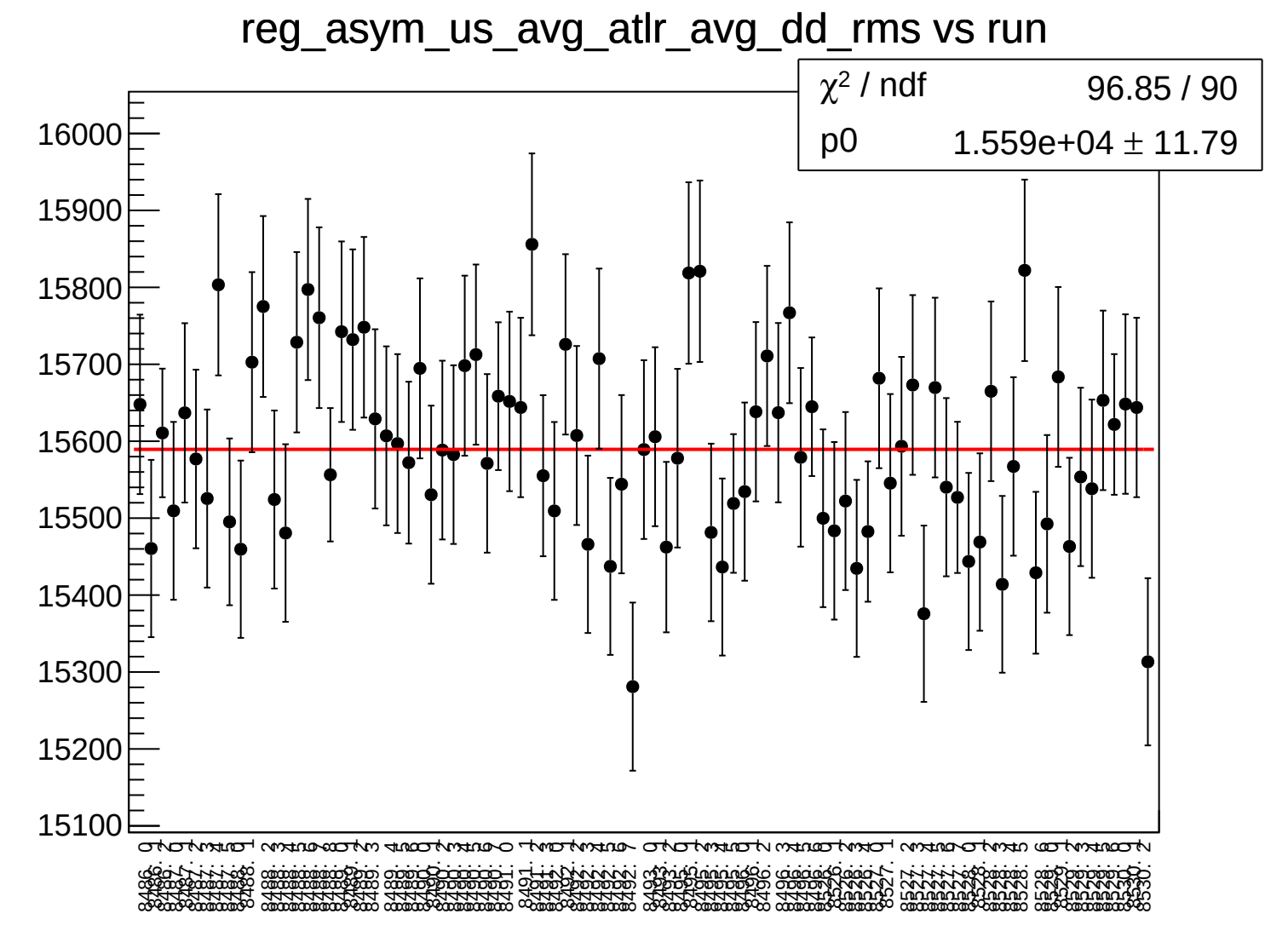

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.588e+05 / 90
p0 252.1 ± 0.2065
600
500
400
300
200
100

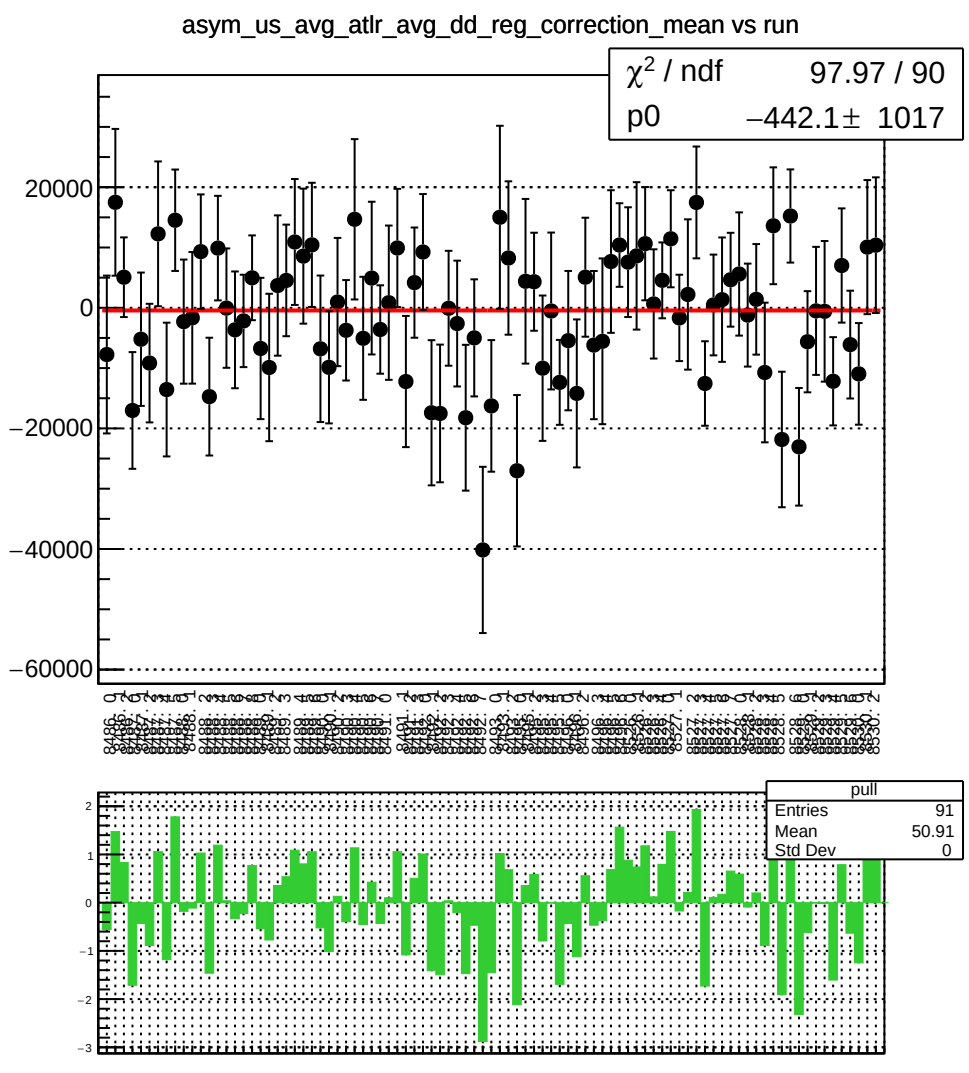

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.61 / 90
p0 −1.116e−13 ± 1.594e−13
pull
Entries 91
Mean −16.85
Std Dev 0

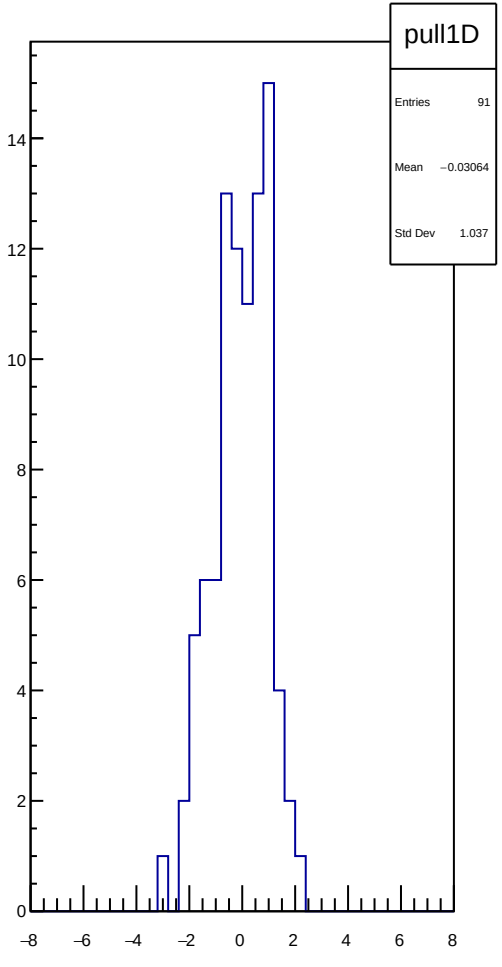

pull1D
Entries 91
Mean −0.08058
Std Dev 1.043

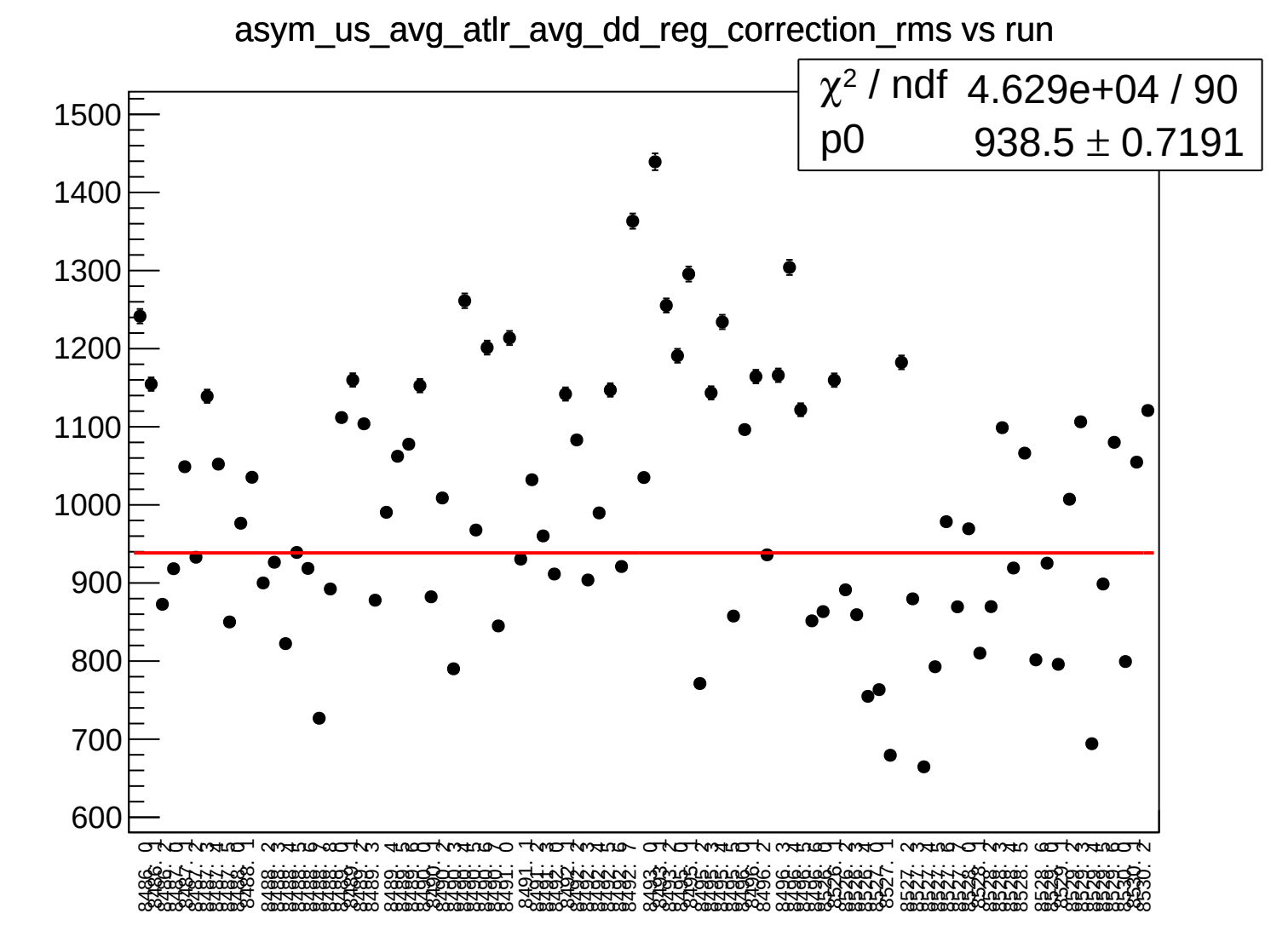

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.706e+05 / 90
p0 1.115e−10 ± 1.127e−13
1.2
1
0.8
0.6
0.4
0.2

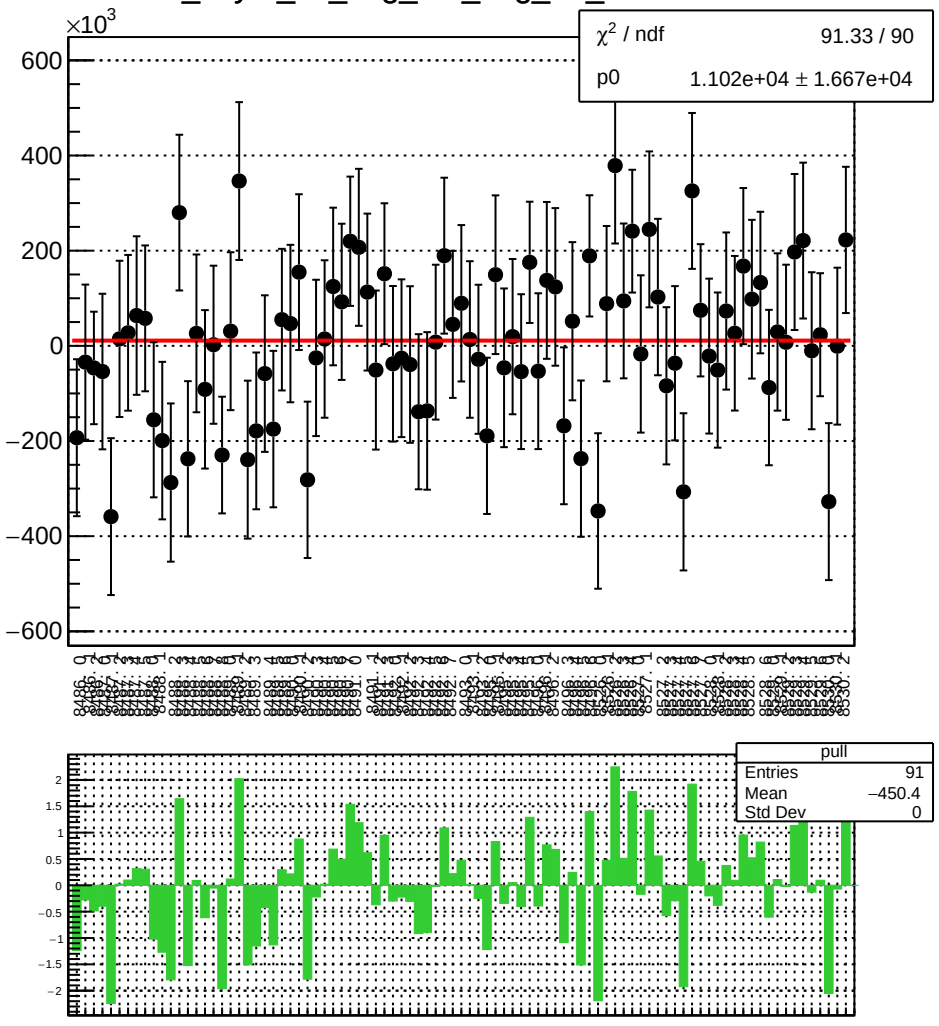

reg_asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ² / ndf 91.33 / 90
p0 1.102e+04 ± 1.667e+04
pull
Entries 91
Mean −450.4
Std Dev 0
pull1D
Entries 91
Mean −0.01331
Std Dev 1.002

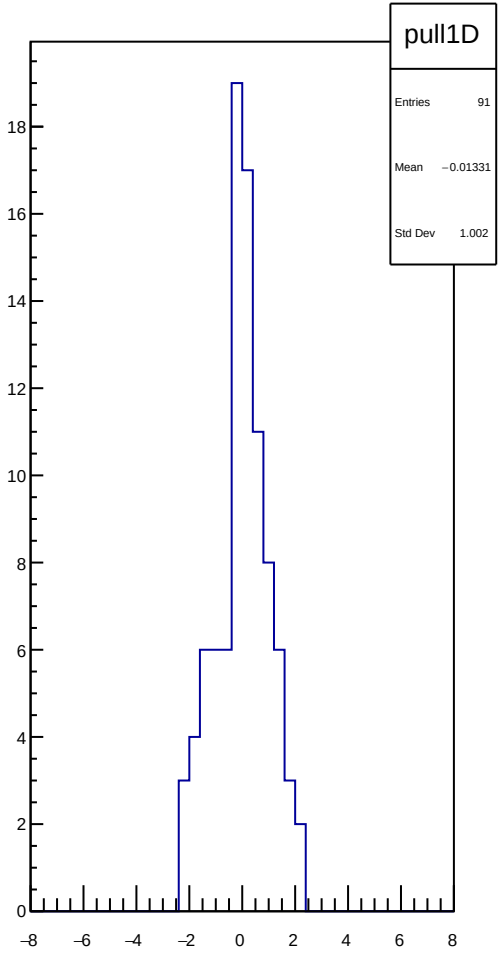

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 96.85 / 90
p0 1.559e+04 ± 11.79
16000
15900
15800
15700
15600
15500
15400
15300
15200
15100

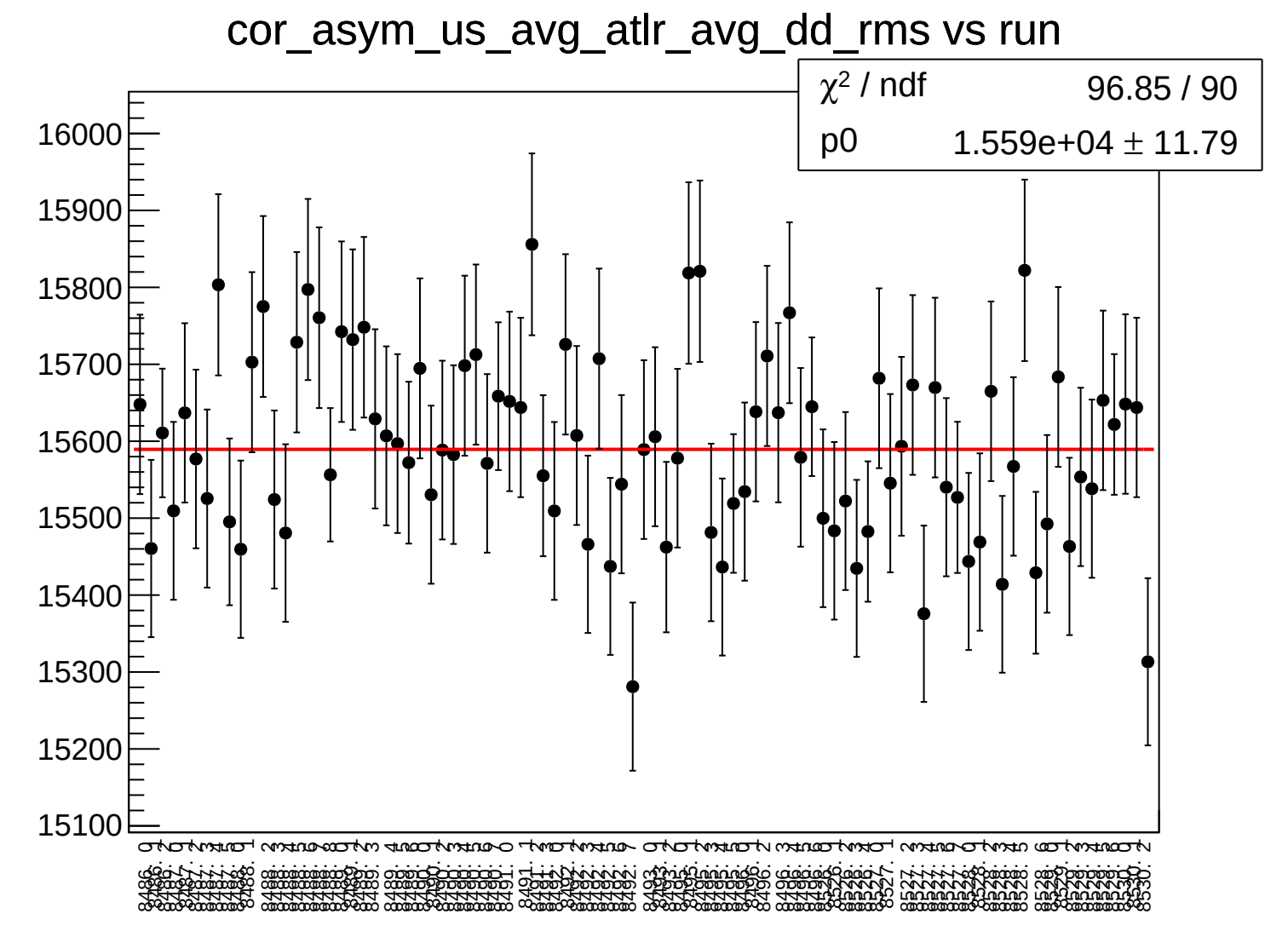

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
χ² / ndf 97.97 / 90
p0 −442.1± 1017
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 50.91
Std Dev 0
2
1
0
−1
−2
−3

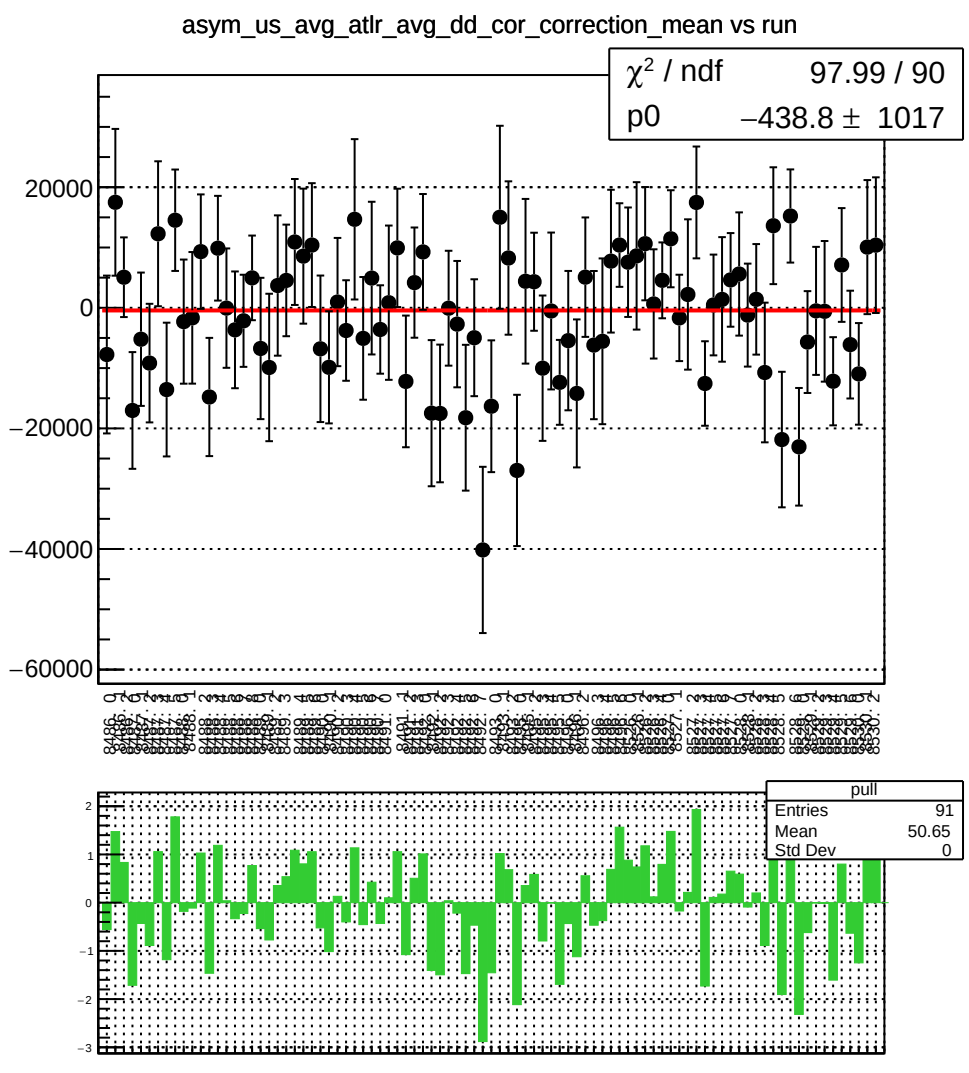

pull1D
Entries 91
Mean −0.03064
Std Dev 1.037
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

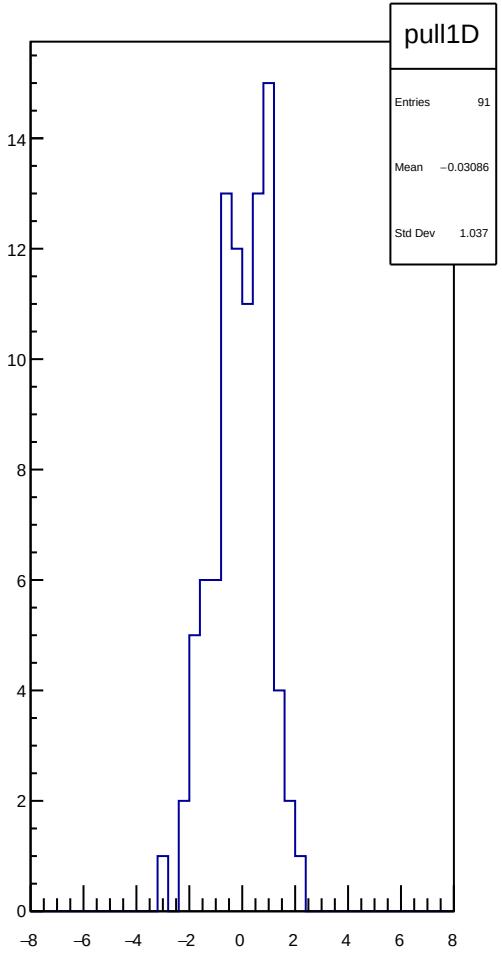

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 4.629e+04 / 90
p0 938.5 ± 0.7191
1500
1400
1300
1200
1100
1000
900
800
700
600

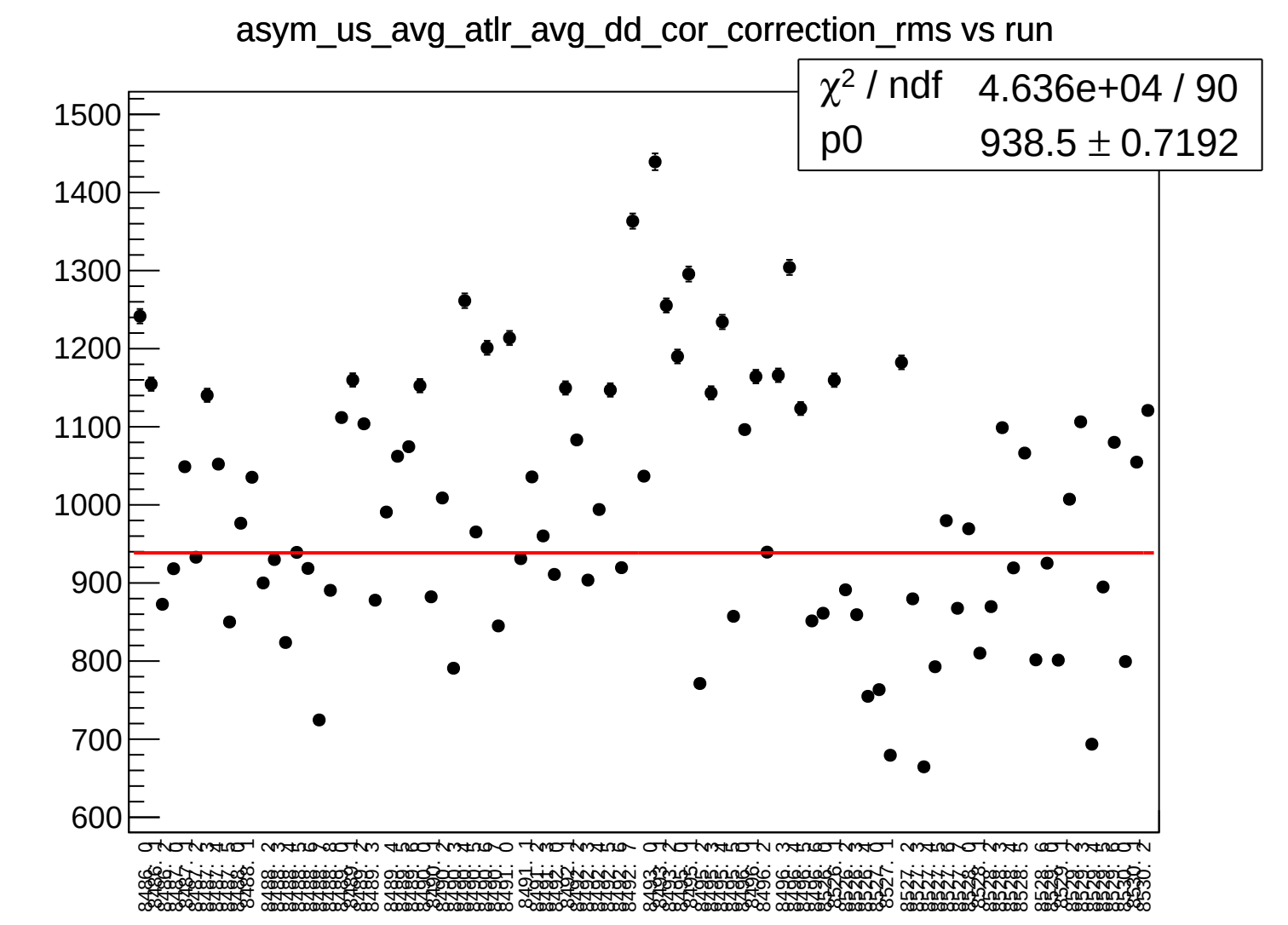

cor_asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ² / ndf 91.33 / 90
p0 1.102e+04 ± 1.667e+04
pull
Entries 91
Mean −450.4
Std Dev 0

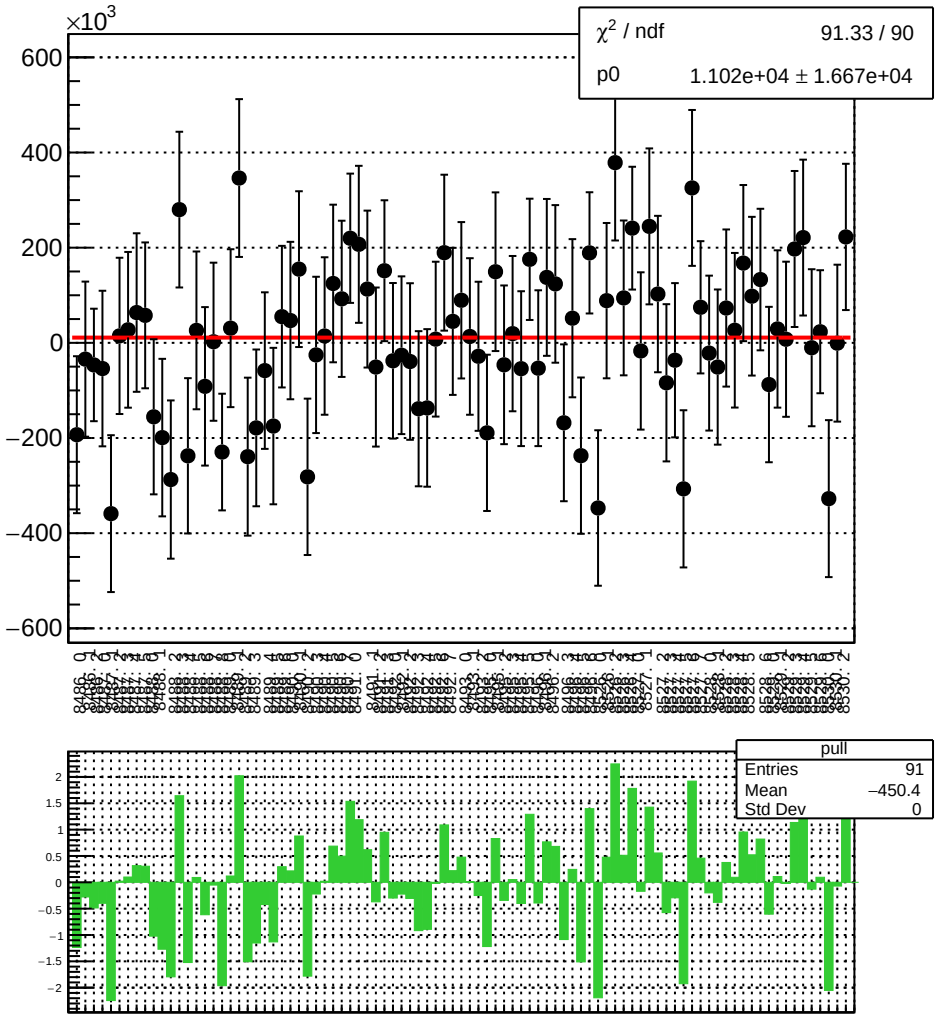

pull1D
Entries 91
Mean −0.01331
Std Dev 1.002

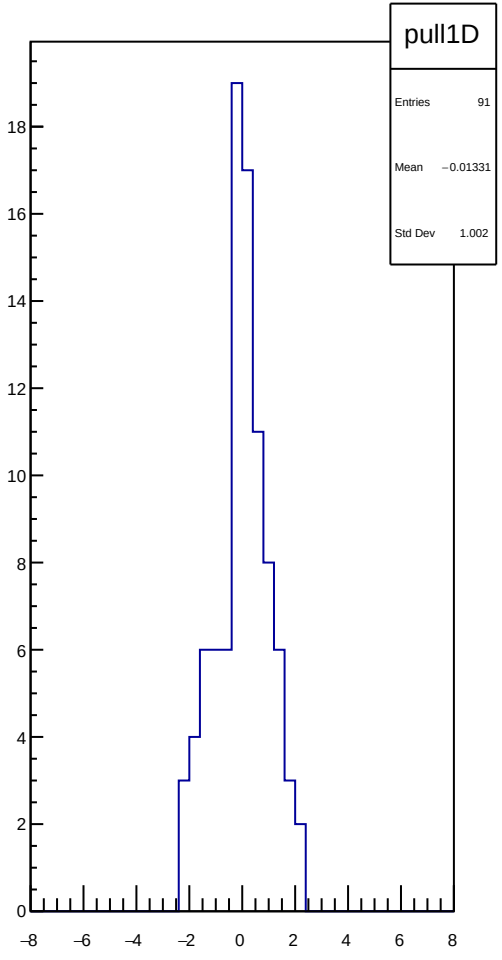

cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 96.85 / 90
p0 1.559e+04 ± 11.79
16000
15900
15800
15700
15600
15500
15400
15300
15200
15100

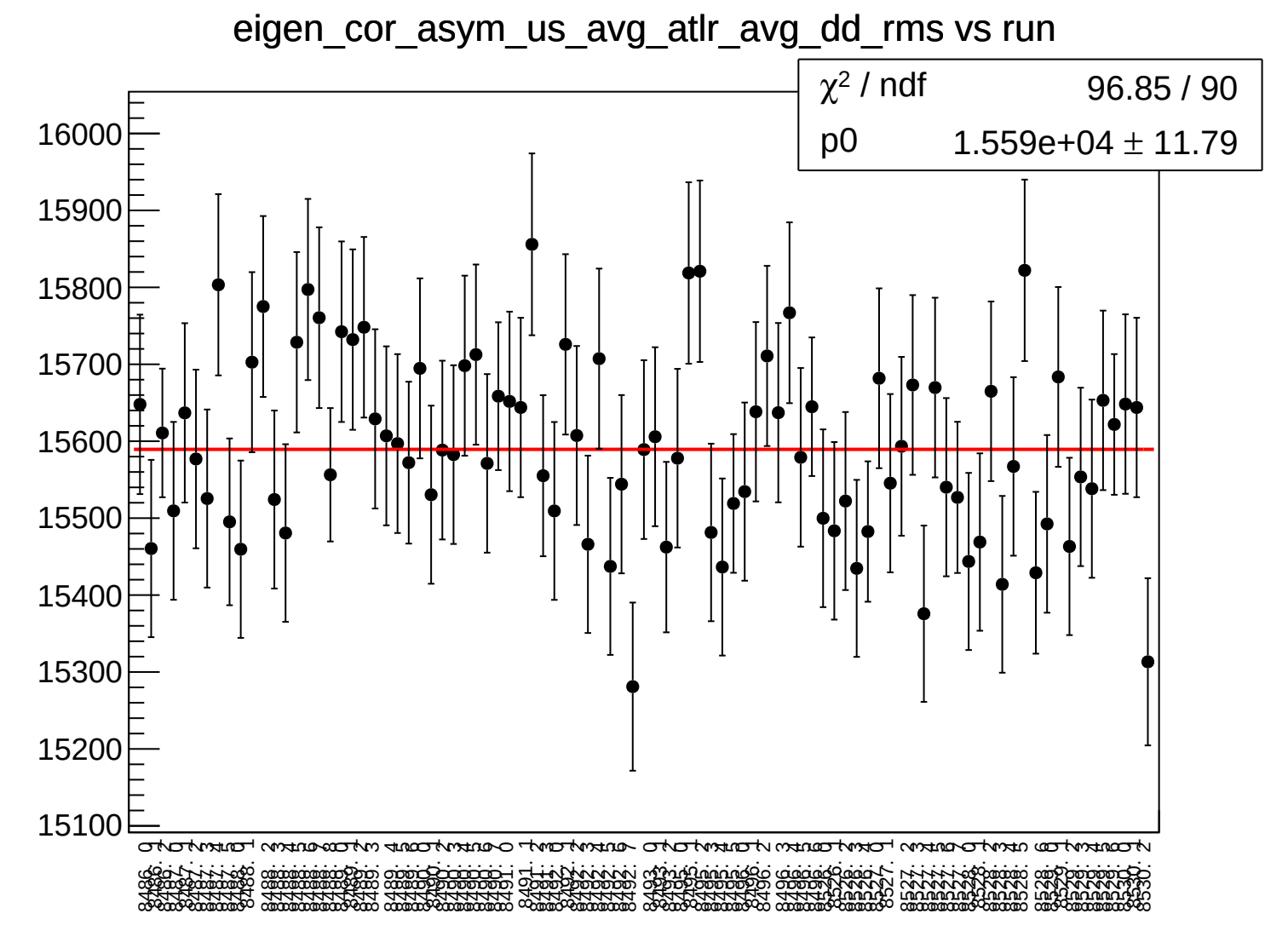

asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
χ² / ndf 97.99 / 90
p0 −438.8 ± 1017
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 50.65
Std Dev 0
2
1
0
−1
−2
−3

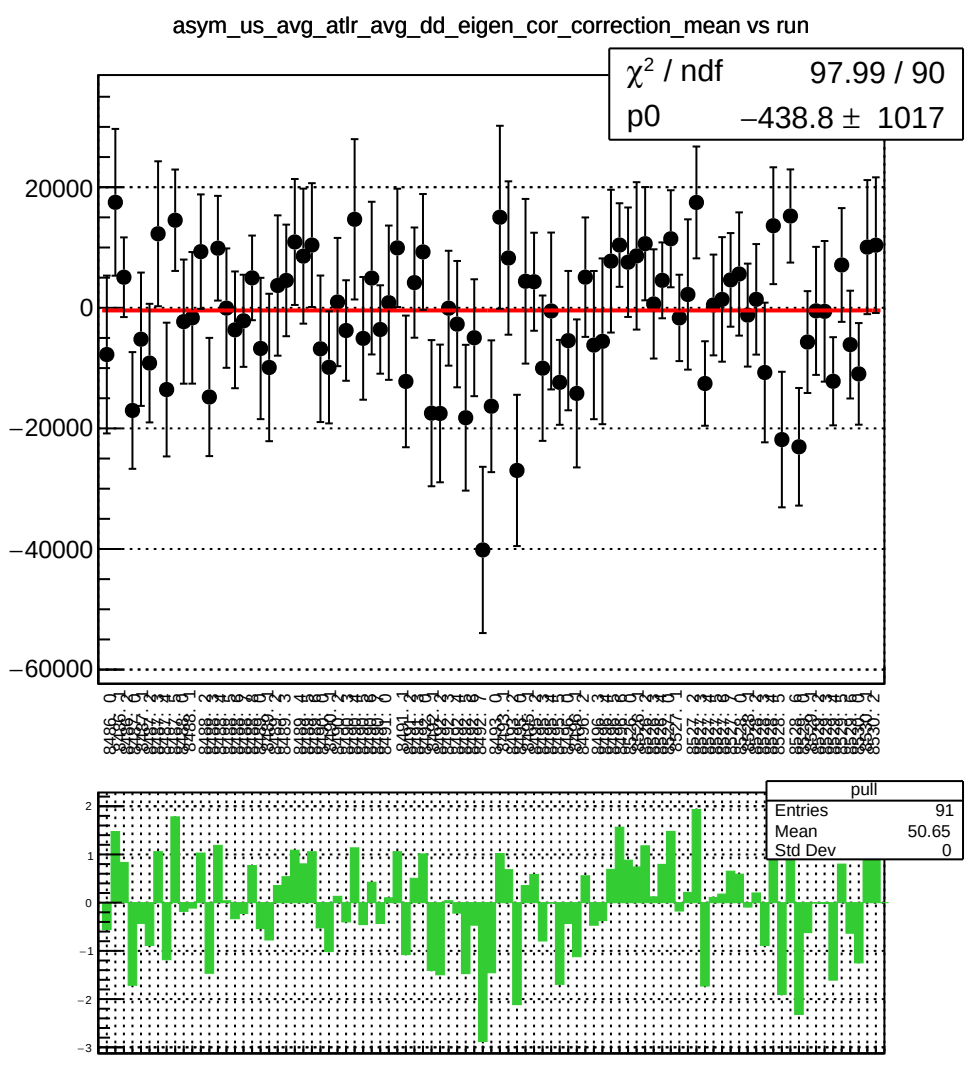

pull1D
Entries 91
Mean −0.03086
Std Dev 1.037
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

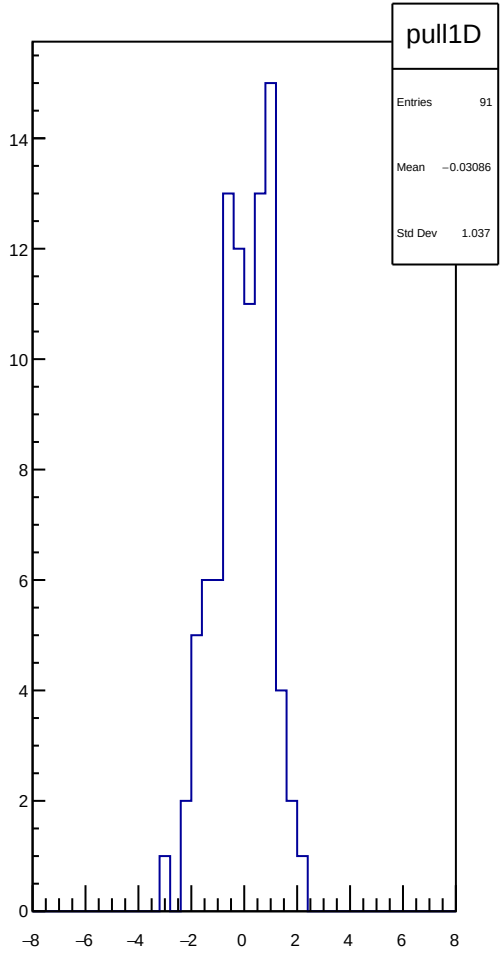

asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 4.636e+04 / 90
p0 938.5 ± 0.7192
1500
1400
1300
1200
1100
1000
900
800
700
600

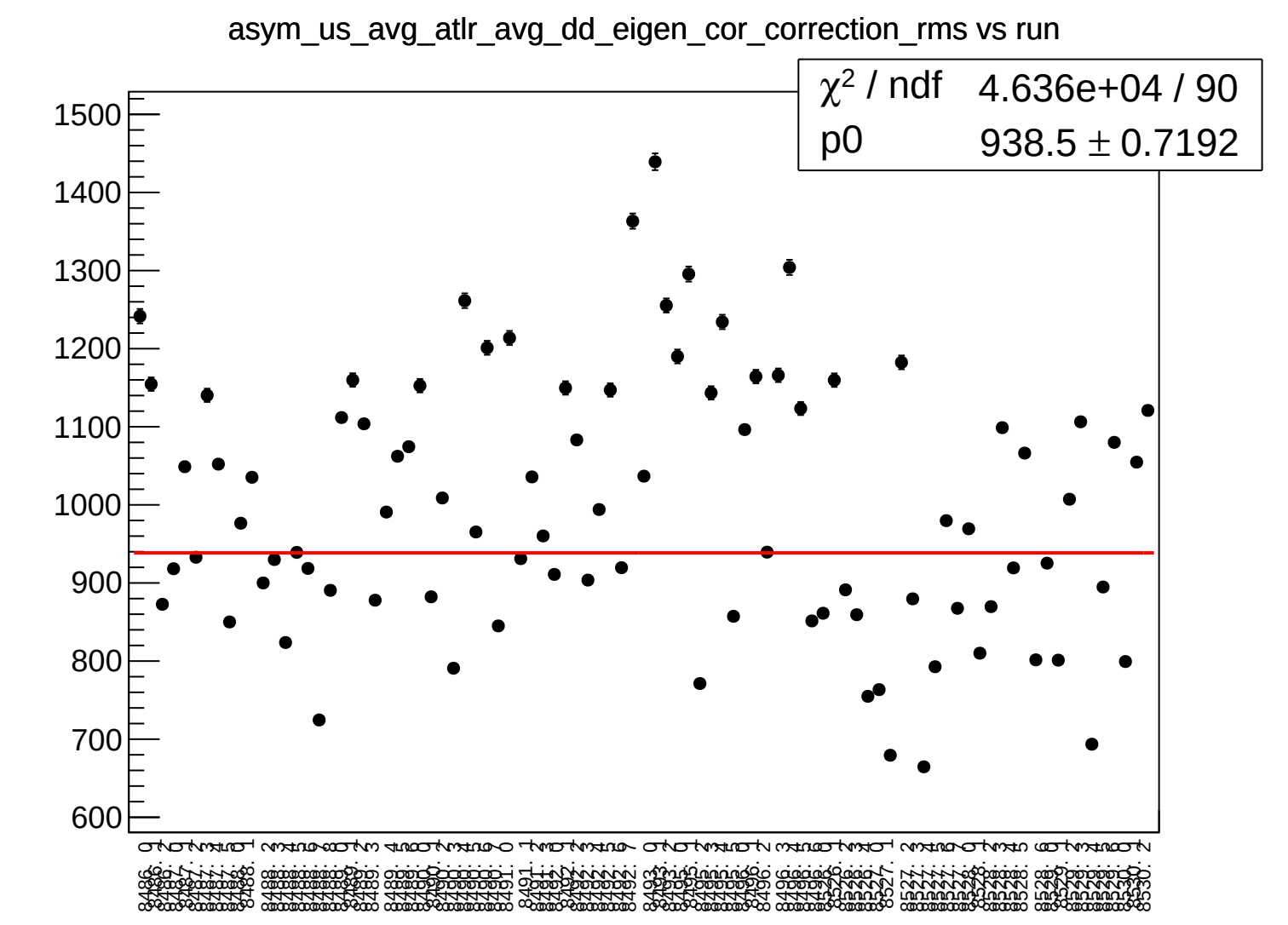

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 91.33 / 90
p0 1.102e+04 ± 1.667e+04
pull
Entries 91
Mean −450.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

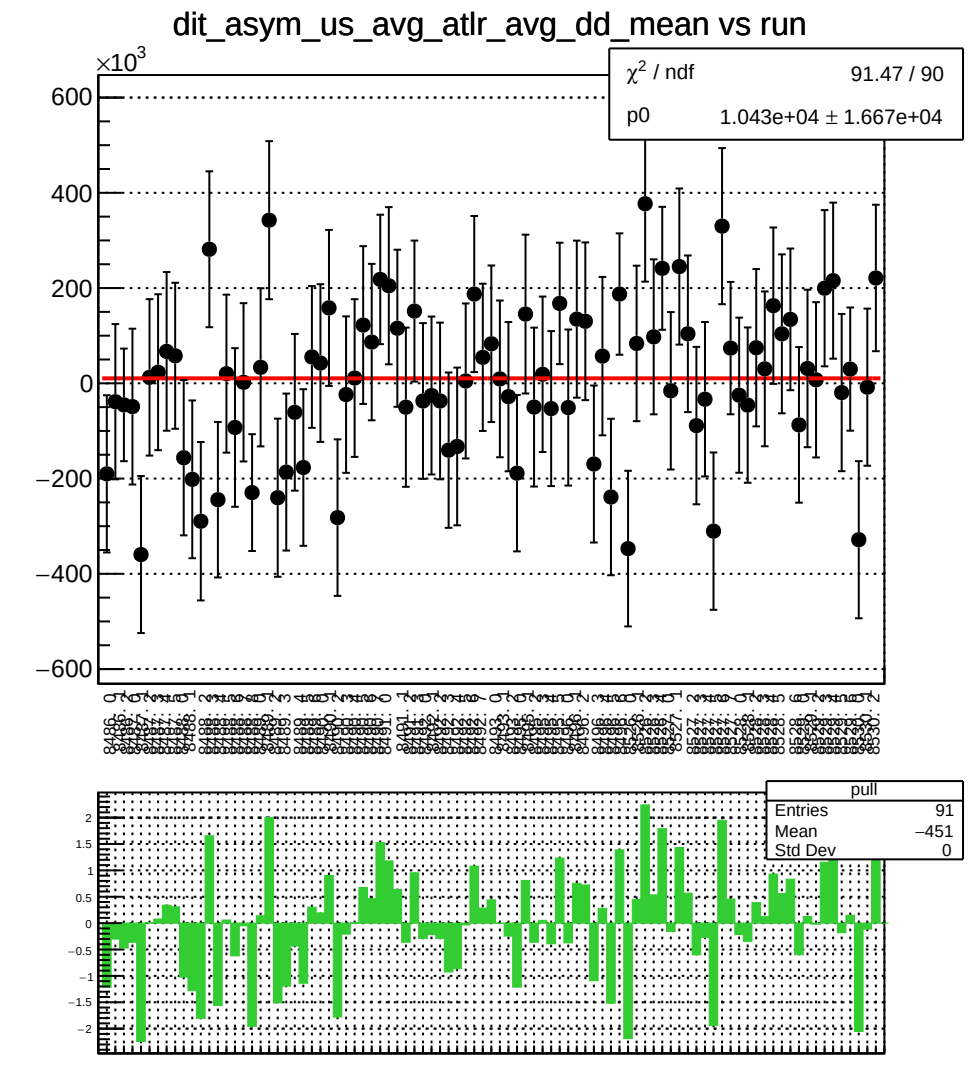

pull1D
Entries 91
Mean −0.01331
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

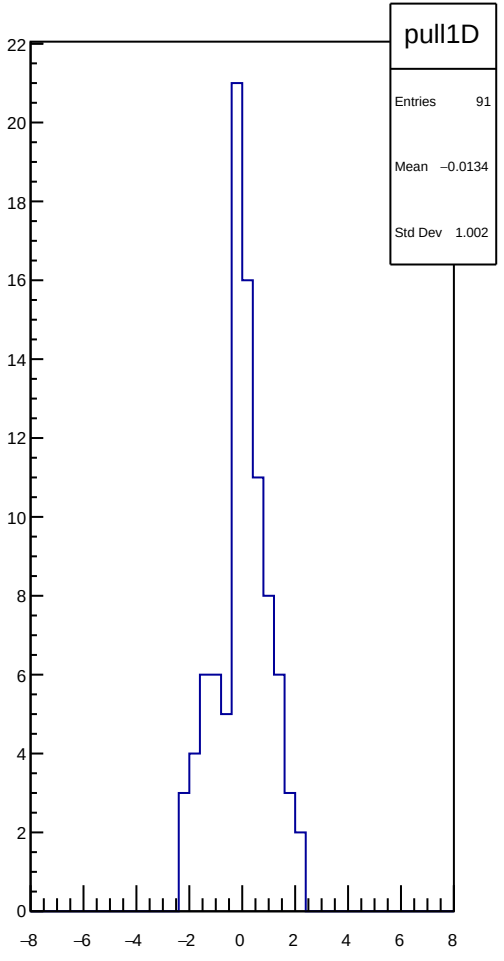

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 96.85 / 90
p0 1.559e+04 ± 11.79
16000
15900
15800
15700
15600
15500
15400
15300
15200
15100

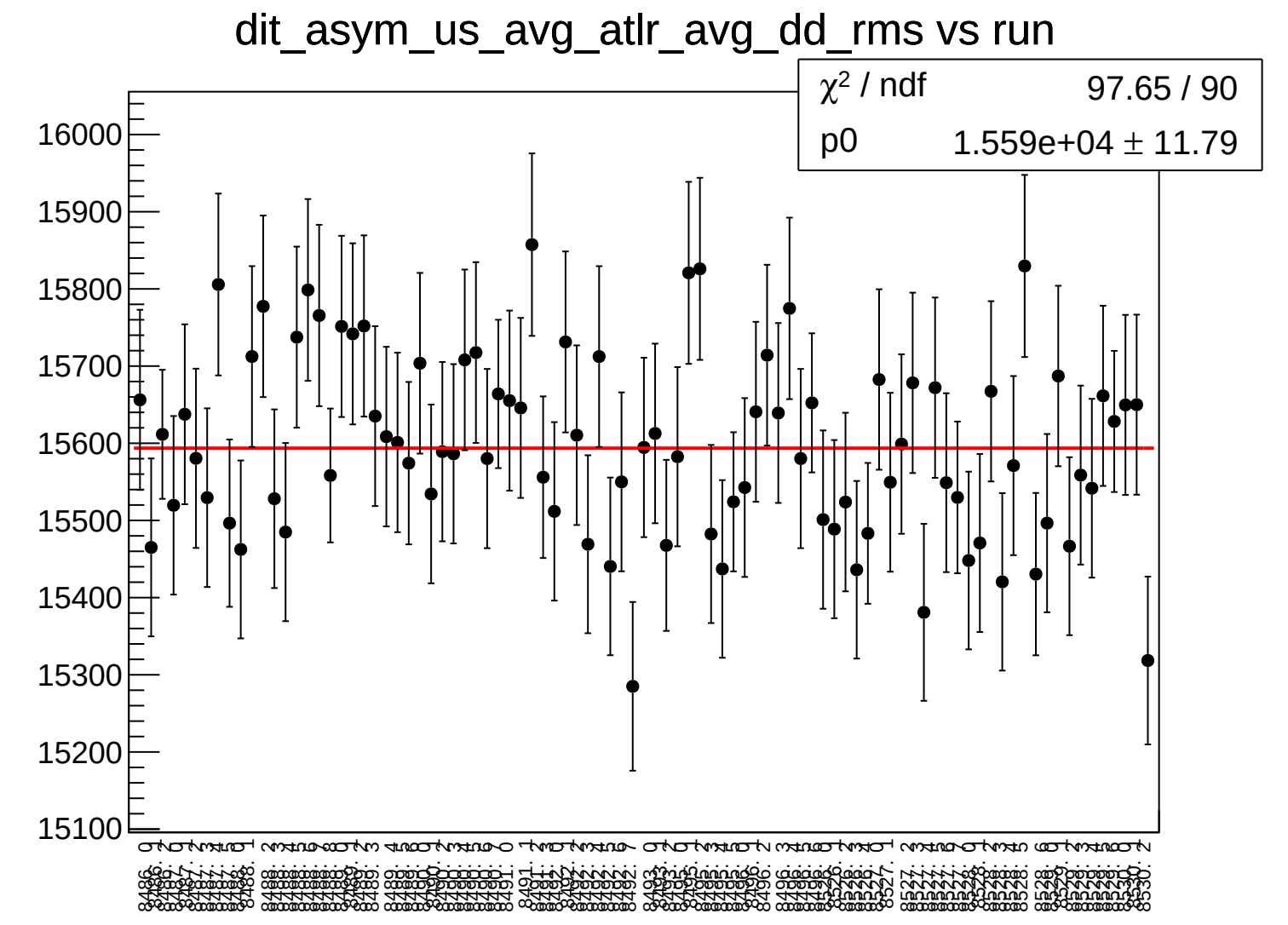

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 97.99 / 90
p0 −438.8 ± 1017
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 50.65
Std Dev 0
2
1
0
−1
−2
−3

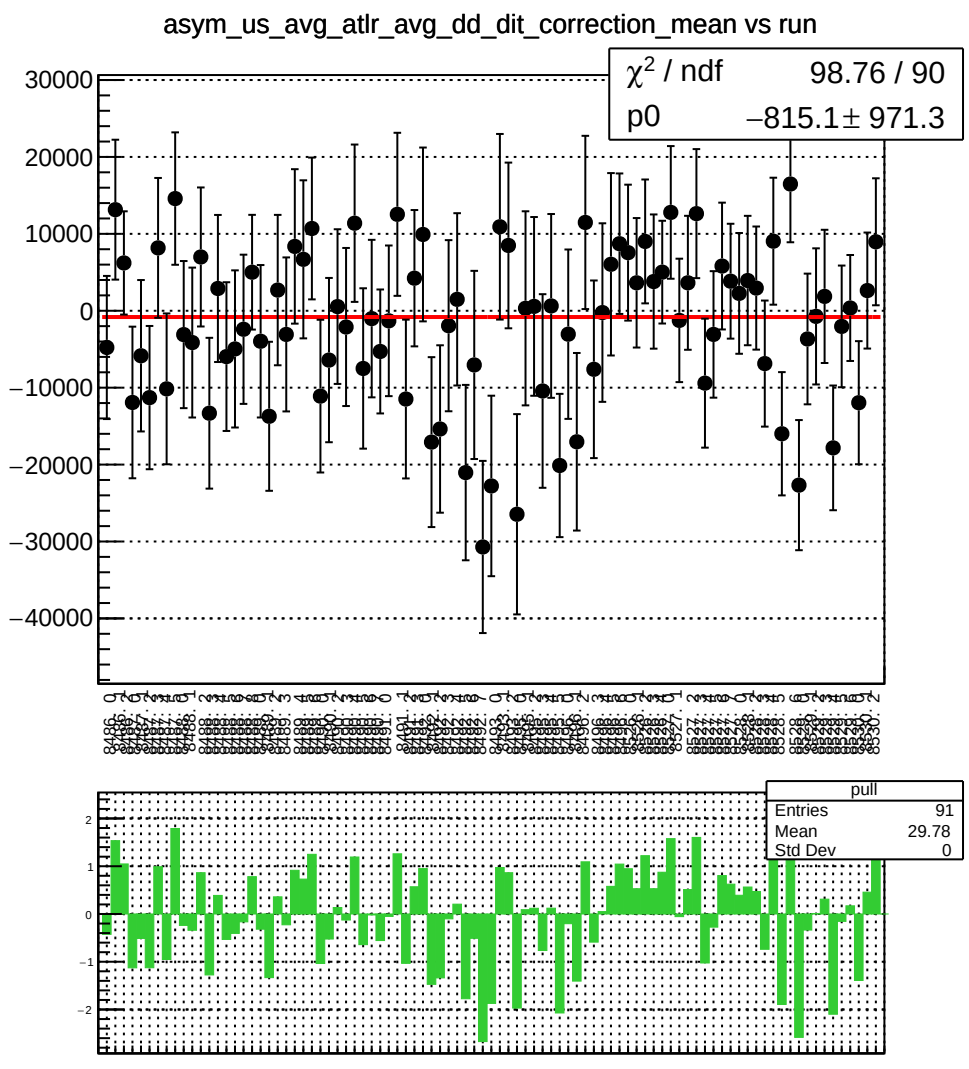

pull1D
Entries 91
Mean −0.03086
Std Dev 1.037
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

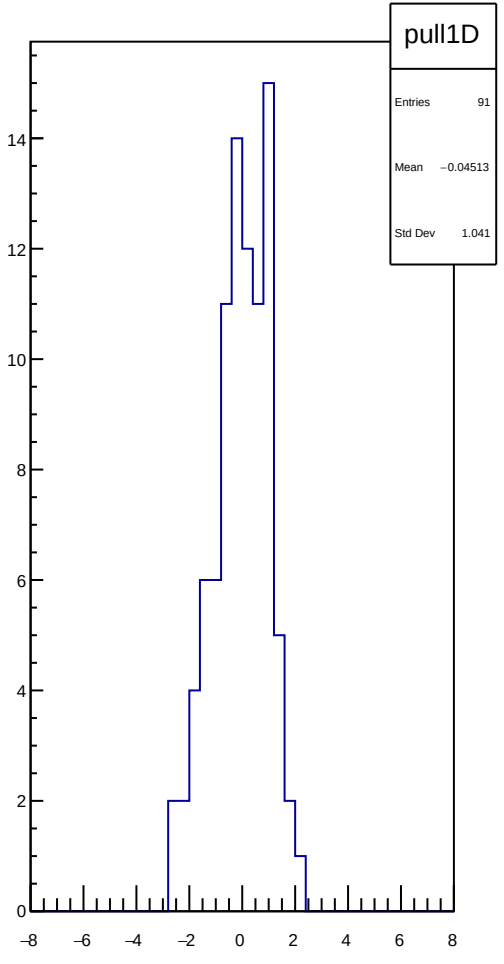

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 4.636e+04 / 90
p0 938.5 ± 0.7192
1500
1400
1300
1200
1100
1000
900
800
700
600

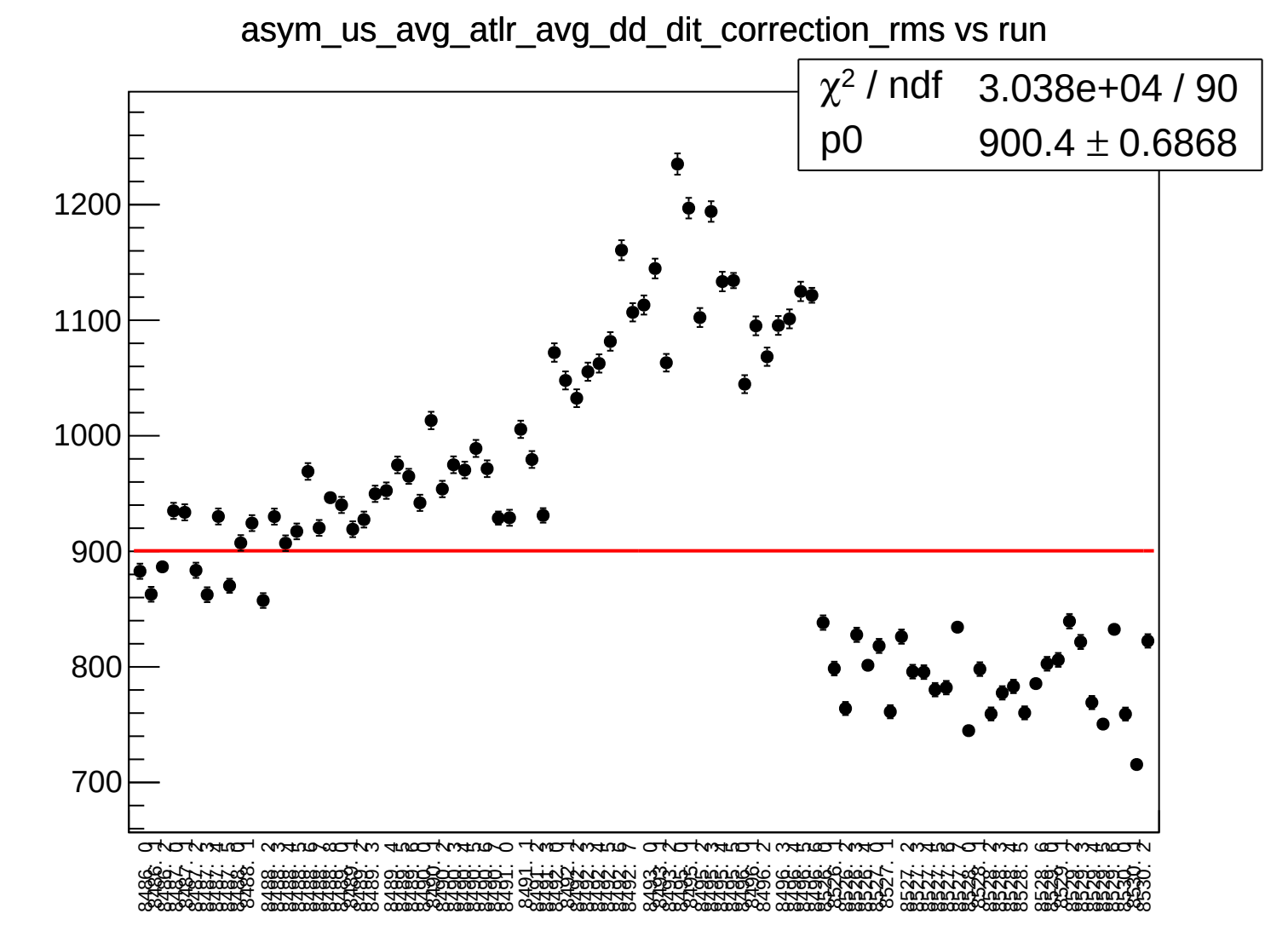

dit_asym_us_avg_atlr_avg_dd_mean vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 91.47 / 90
p0 1.043e+04 ± 1.667e+04
pull
Entries 91
Mean −451
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

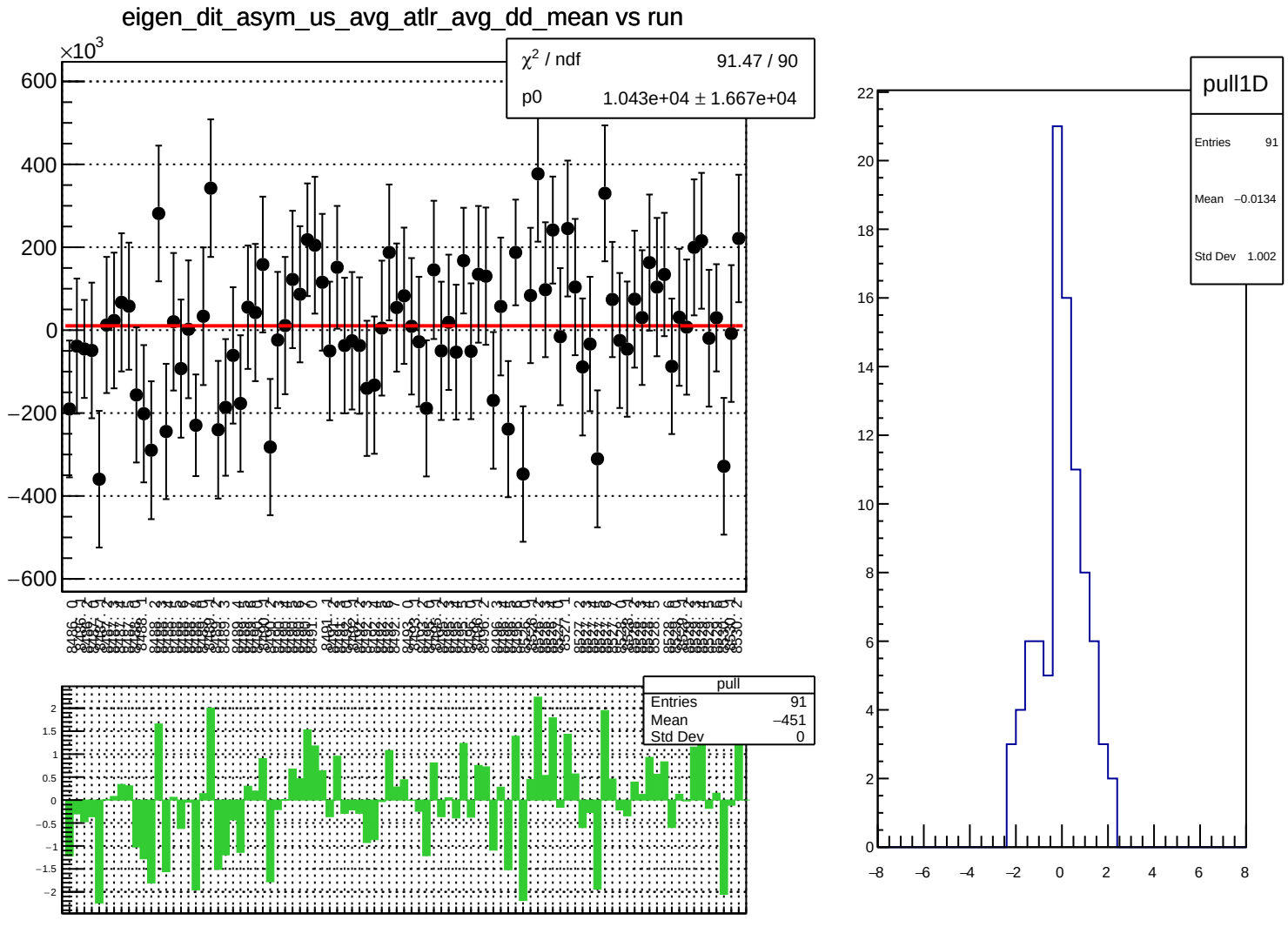

pull1D
Entries 91
Mean −0.0134
Std Dev 1.002
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

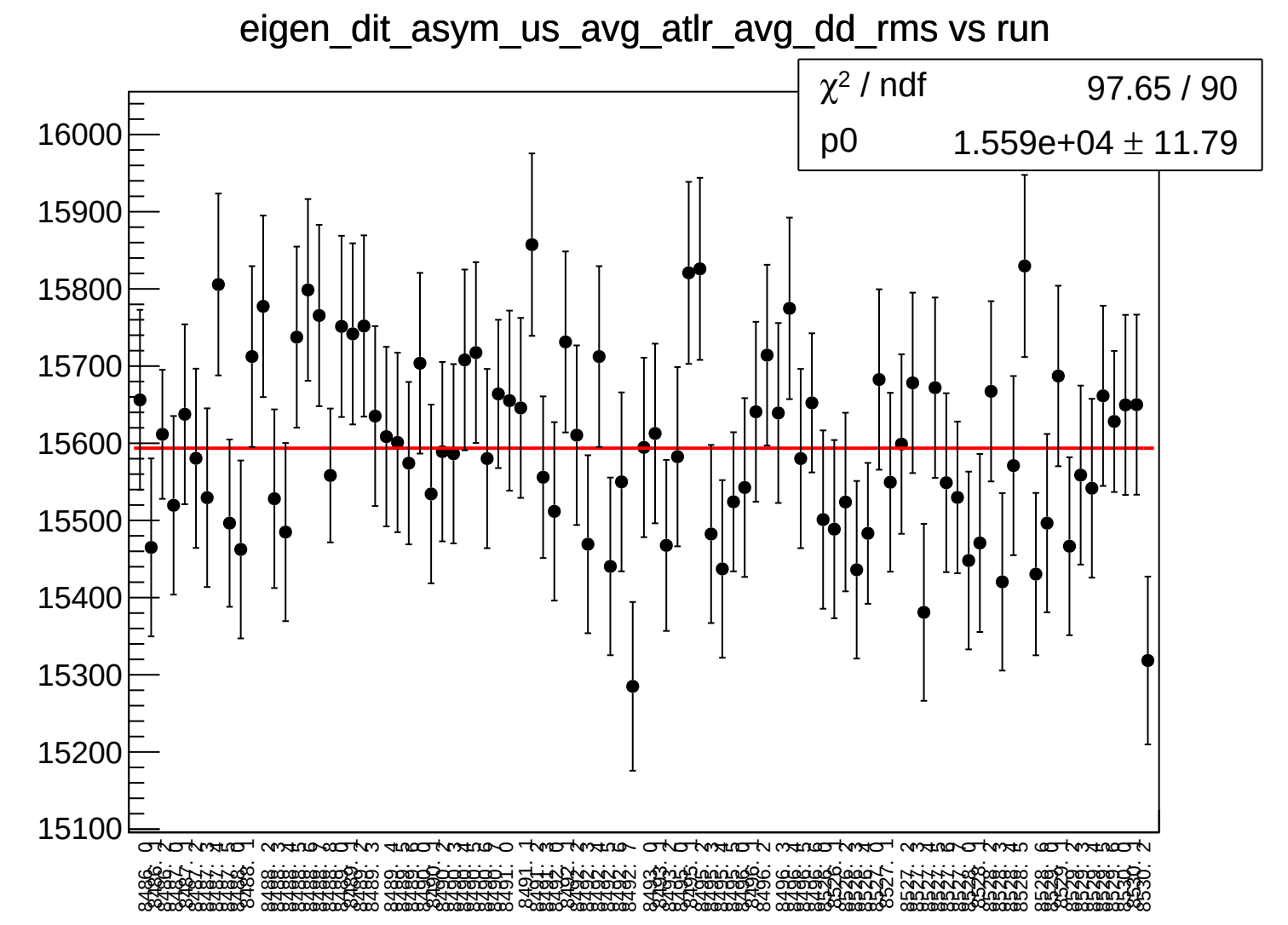

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 97.65 / 90
p0 1.559e+04 ± 11.79
16000
15900
15800
15700
15600
15500
15400
15300
15200
15100

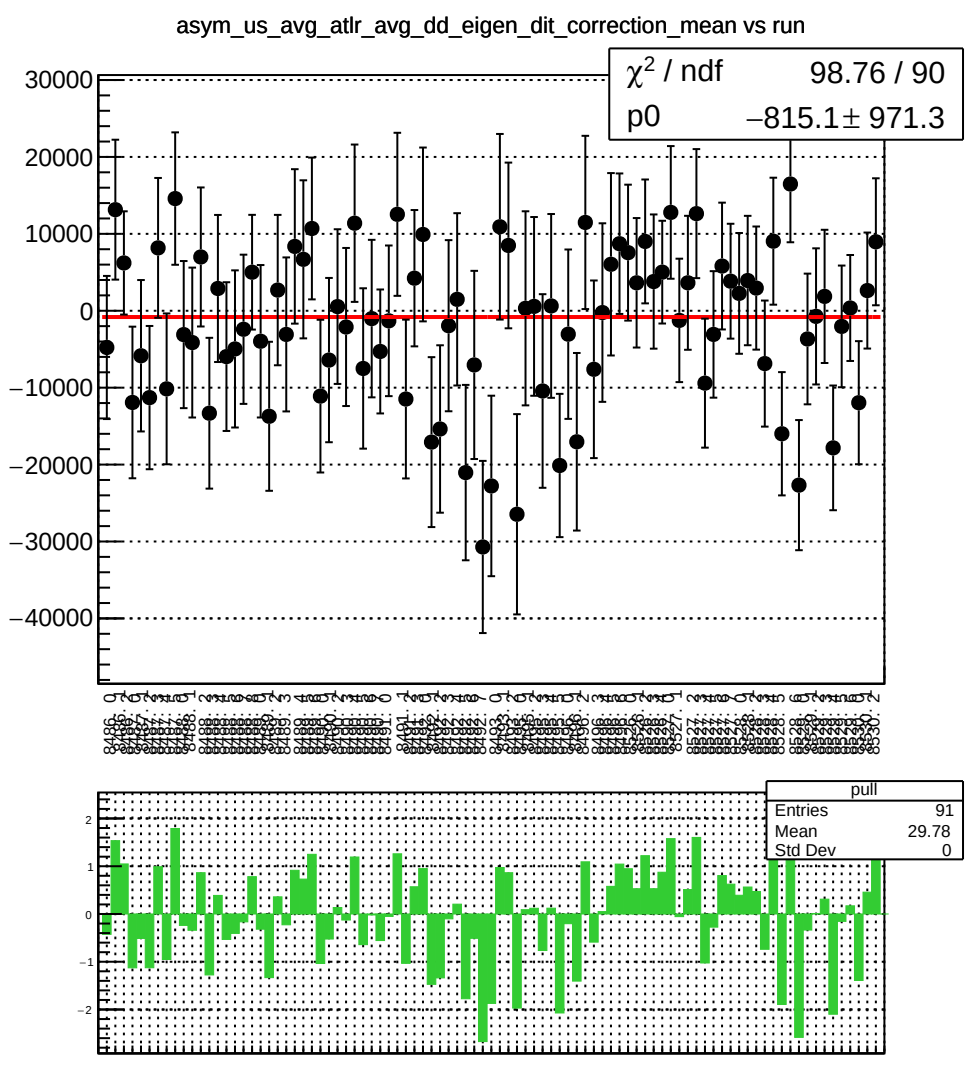

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
χ² / ndf 98.76 / 90
p0 −815.1 ± 971.3
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean 29.78
Std Dev 0
2
1
0
−1
−2

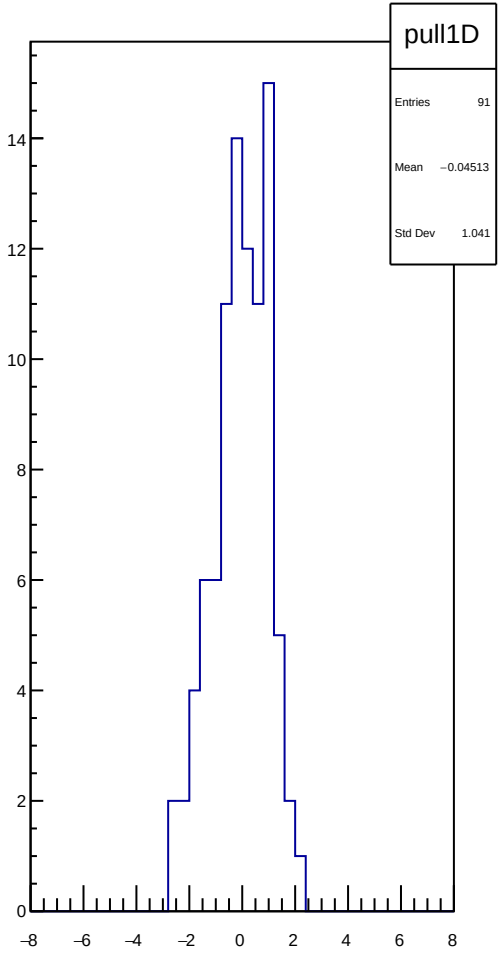

pull1D
Entries 91
Mean −0.04513
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

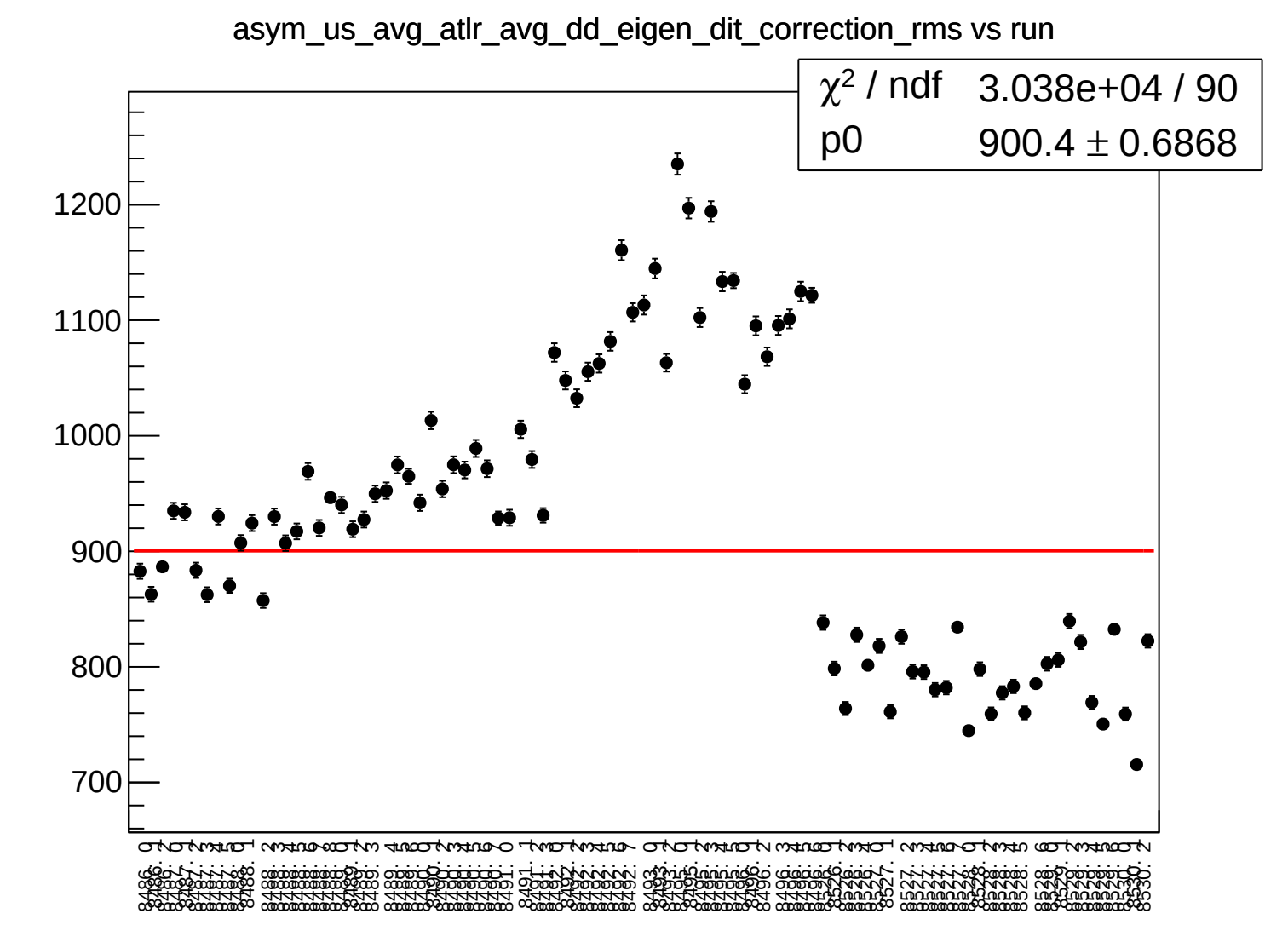

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ² / ndf 3.038e+04 / 90
p0 900.4 ± 0.6868
1200
1100
1000
900
800
700

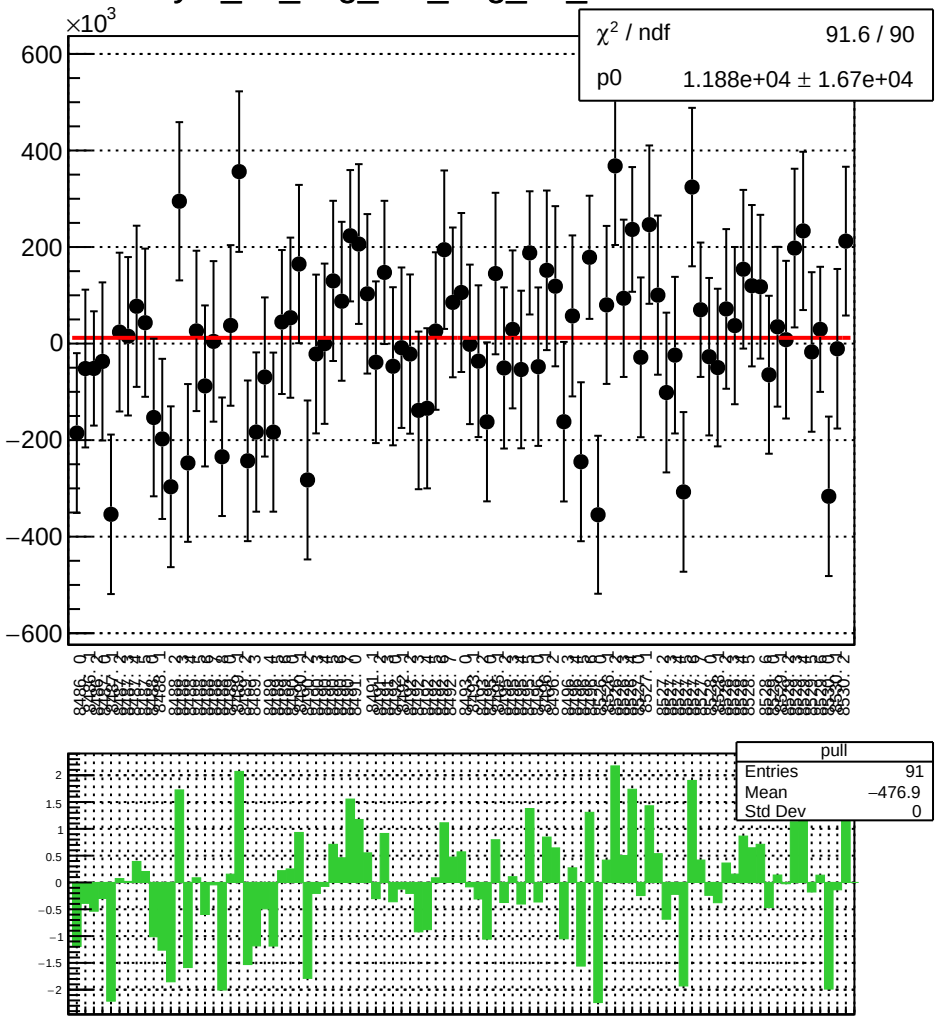

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ² / ndf 91.47 / 90
p0 1.043e+04 ± 1.667e+04
pull
Entries 91
Mean −451
Std Dev 0
pull1D
Entries 91
Mean −0.0134
Std Dev 1.002

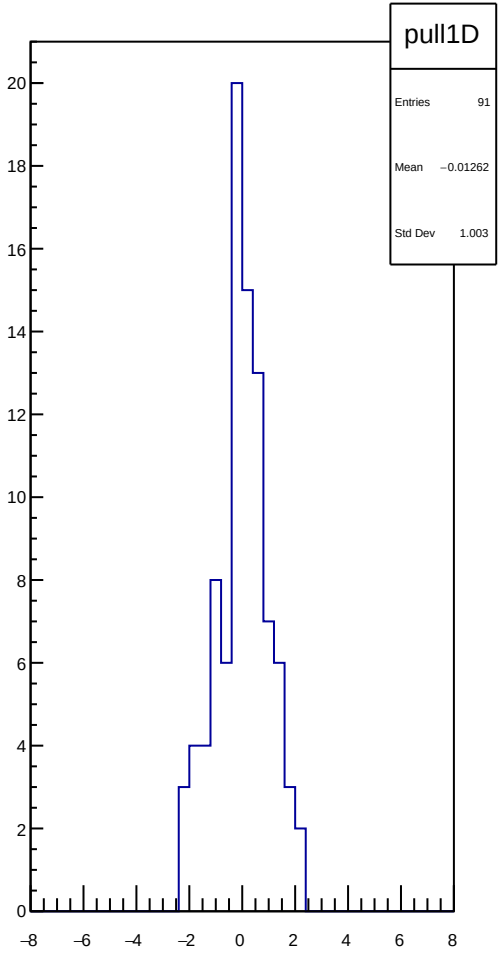

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 97.65 / 90
p0 1.559e+04 ± 11.79
16000
15900
15800
15700
15600
15500
15400
15300
15200
15100

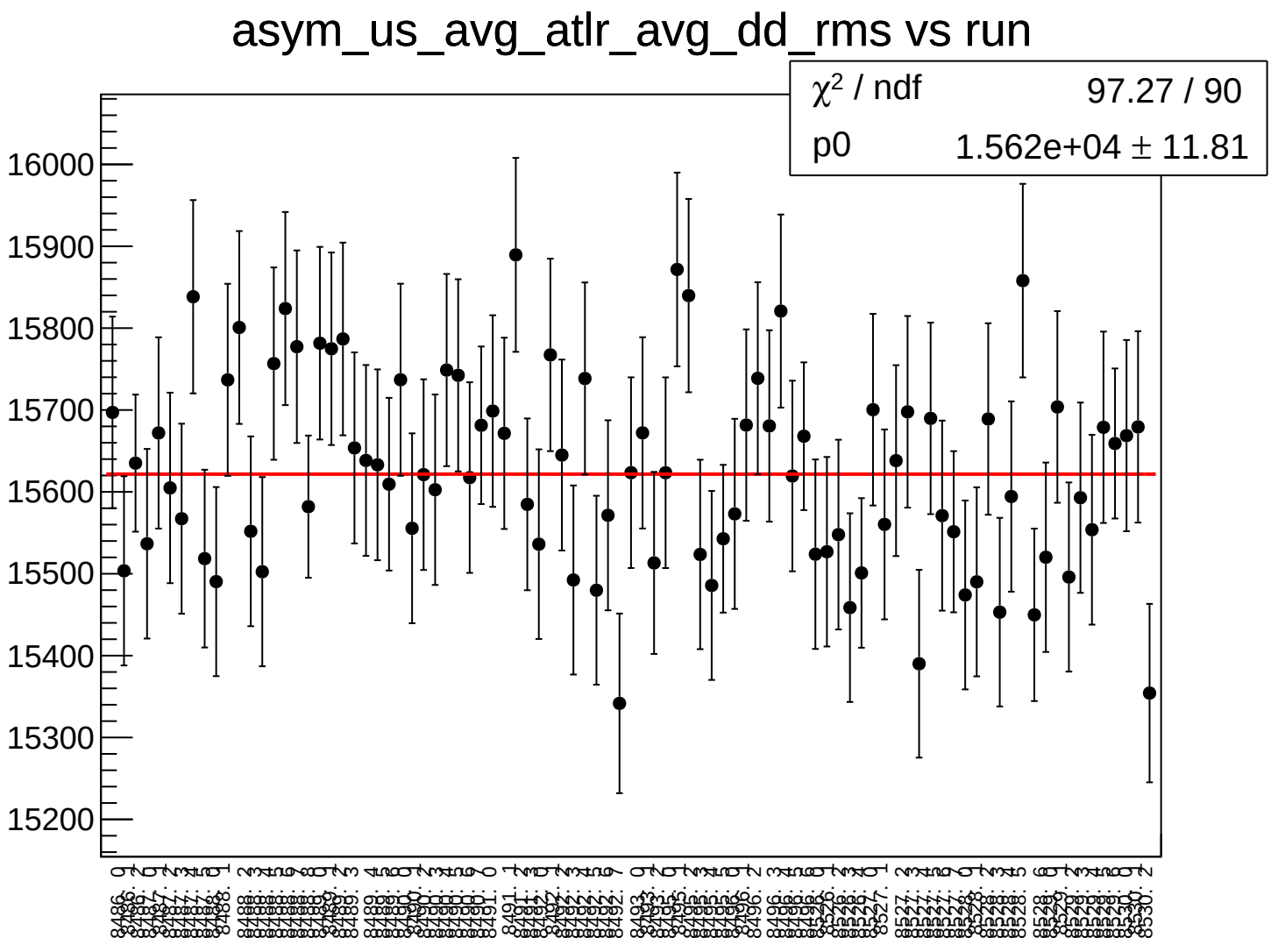

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 98.76 / 90
p0 −815.1 ± 971.3
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean 29.78
Std Dev 0
2
1
0
−1
−2

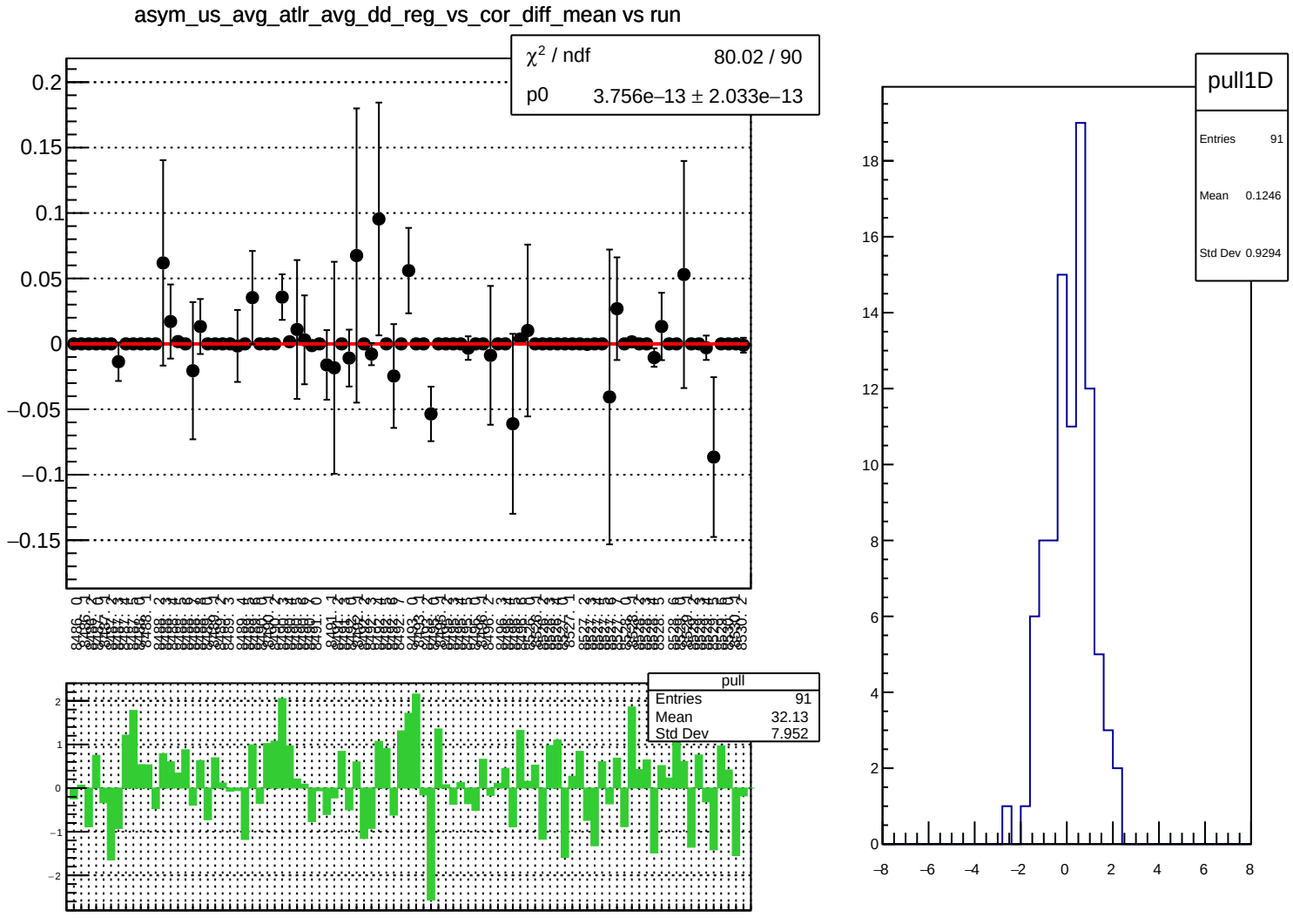

pull1D
Entries 91
Mean −0.04513
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

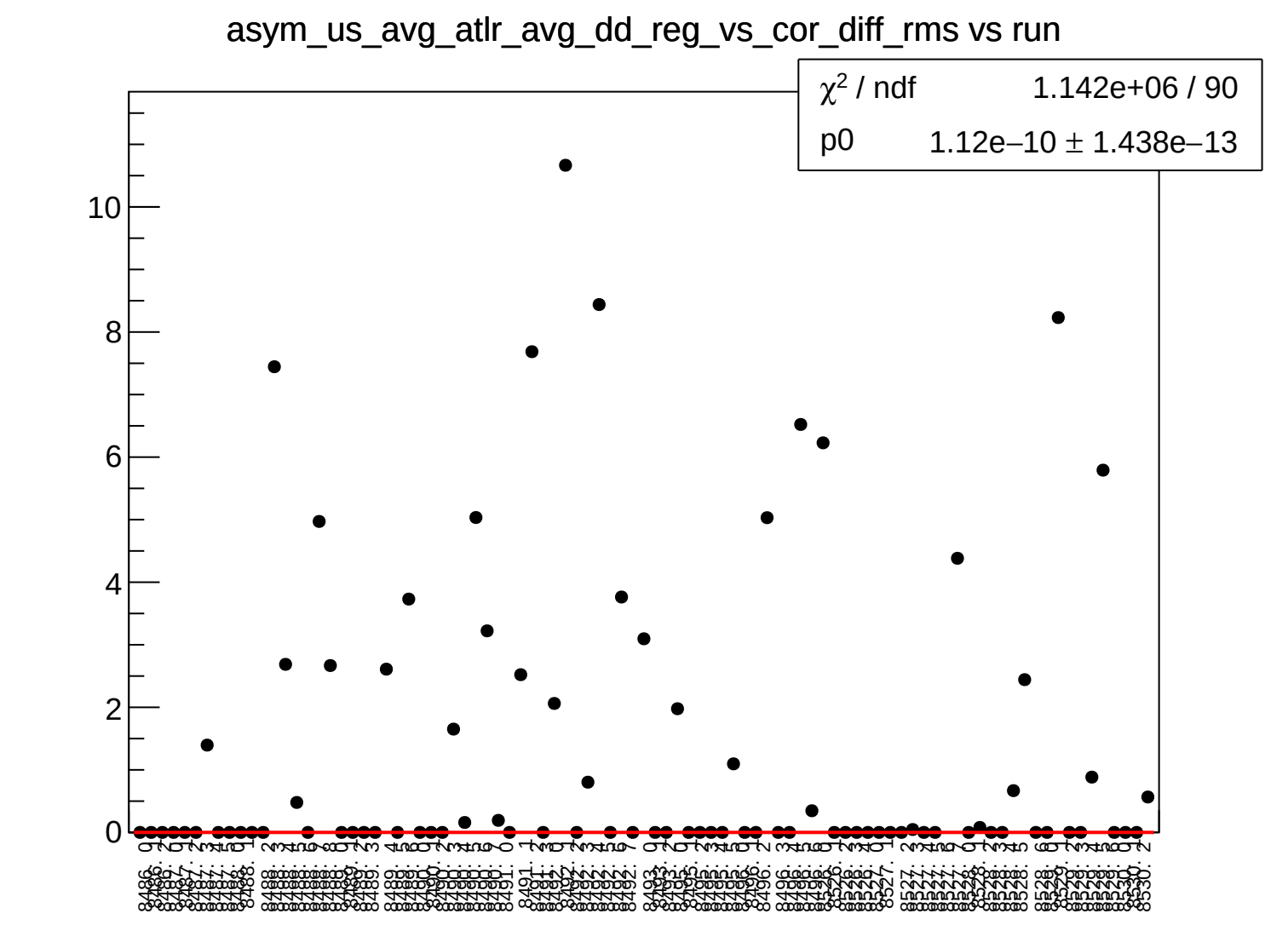

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.038e+04 / 90
p0 900.4 ± 0.6868
1200
1100
1000
900
800
700

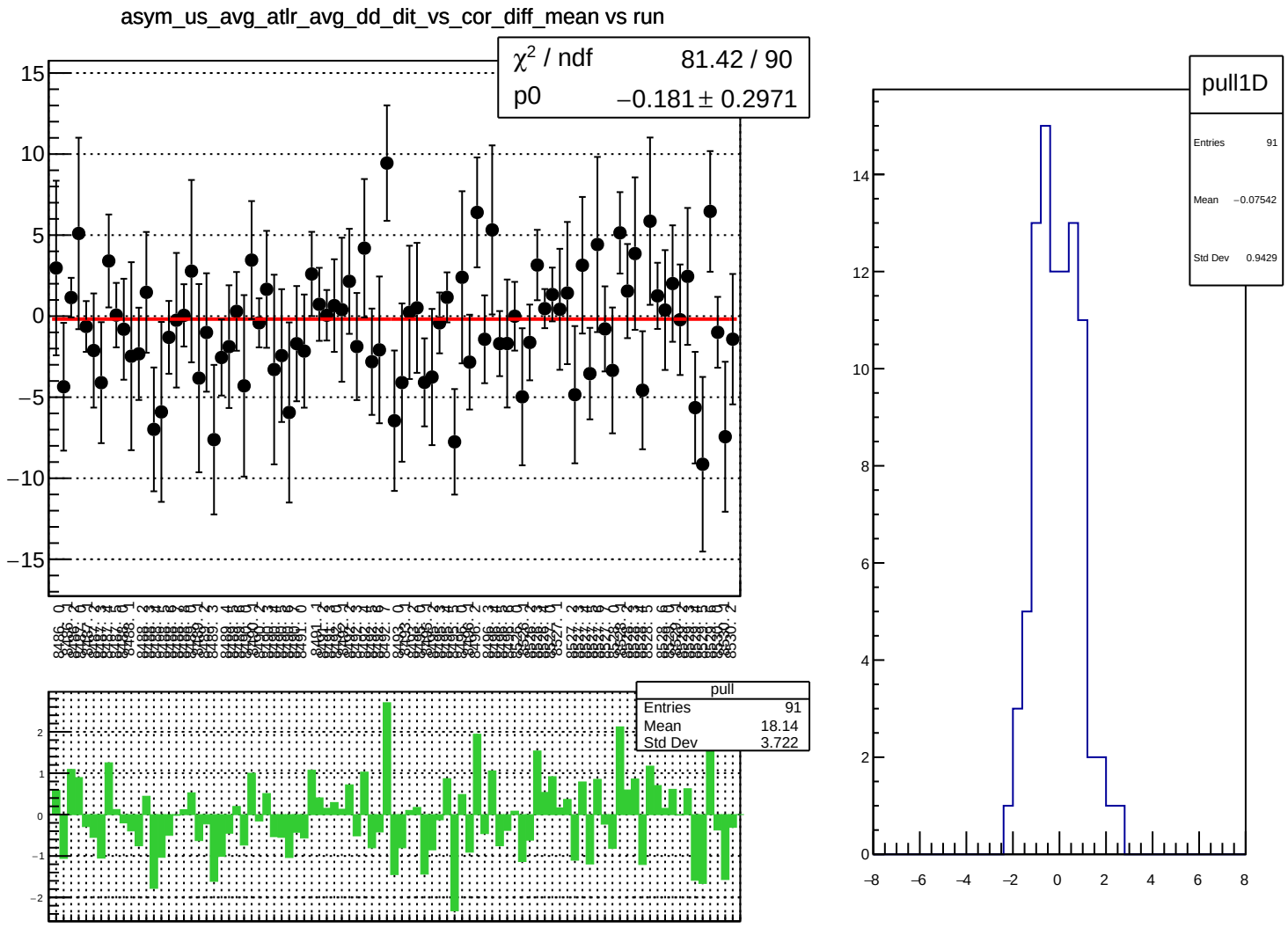

asym_us_avg_atlr_avg_dd_mean vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 91.6 / 90
p0 1.188e+04 ± 1.67e+04
pull
Entries 91
Mean −476.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

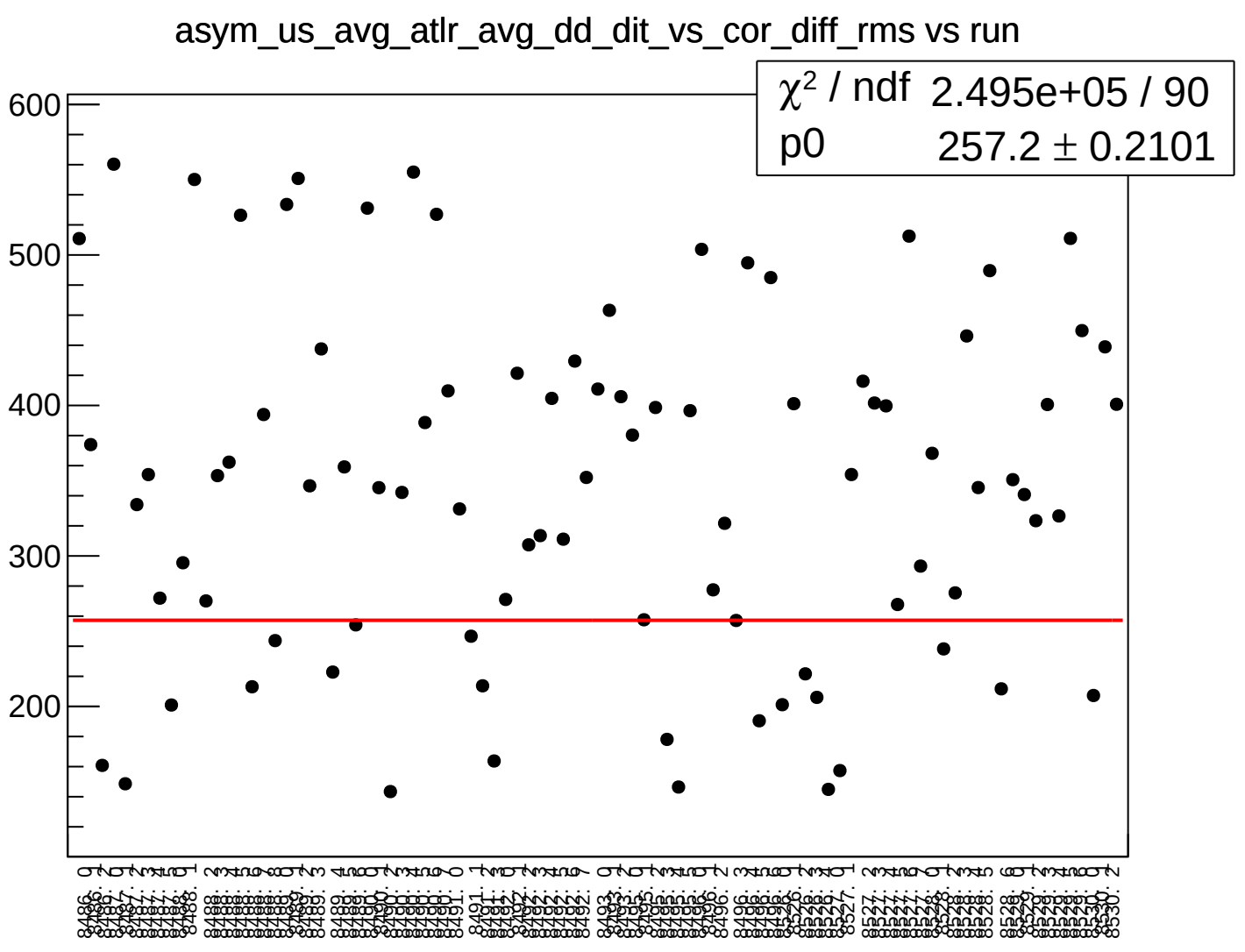

pull1D
Entries 91
Mean −0.01262
Std Dev 1.003
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

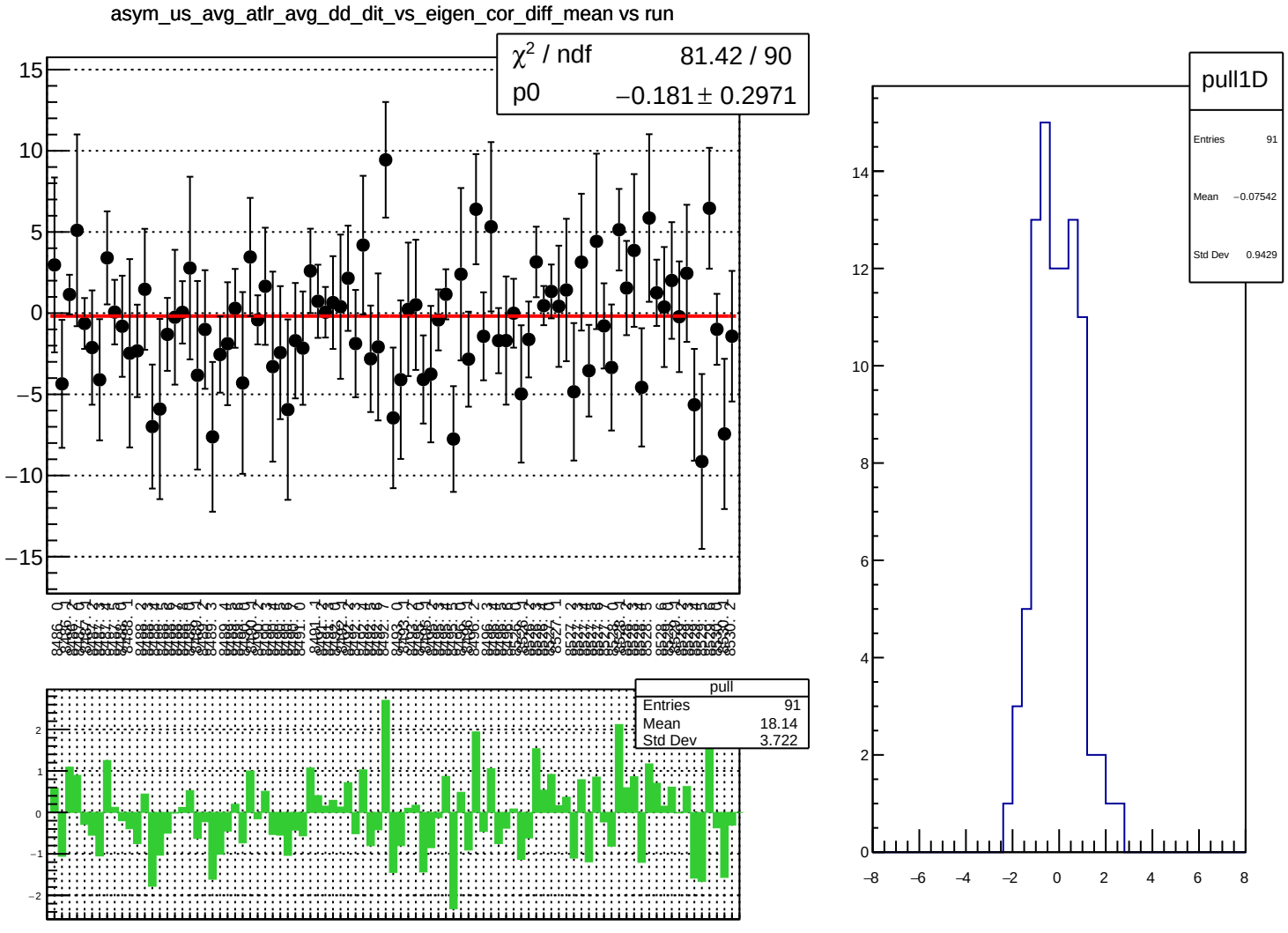

asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 97.27 / 90
p0 1.562e+04 ± 11.81
16000
15900
15800
15700
15600
15500
15400
15300
15200

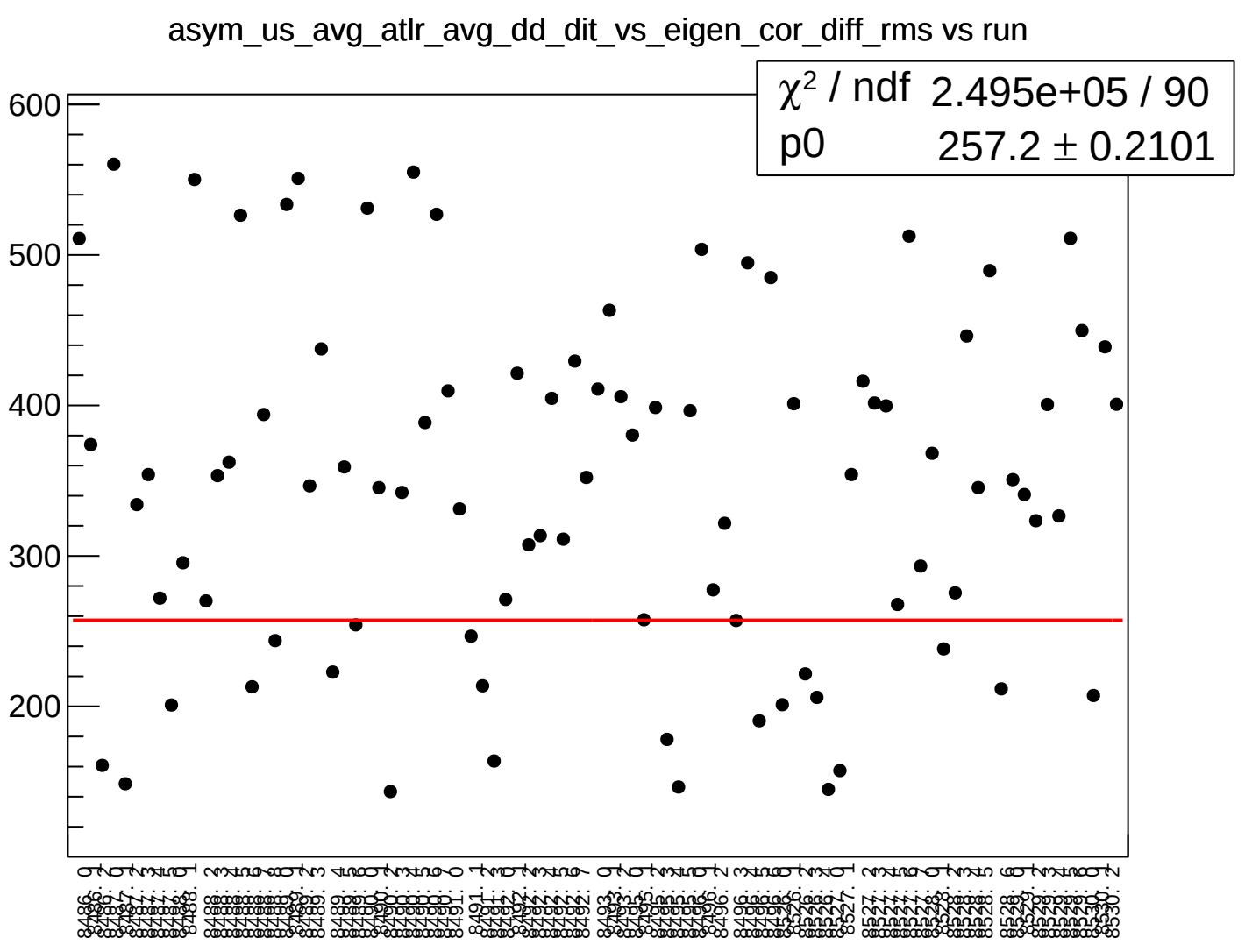

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 80.02 / 90
p0 3.756e−13 ± 2.033e−13
pull
Entries 91
Mean 32.13
Std Dev 7.952
pull1D
Entries 91
Mean 0.1246
Std Dev 0.9294

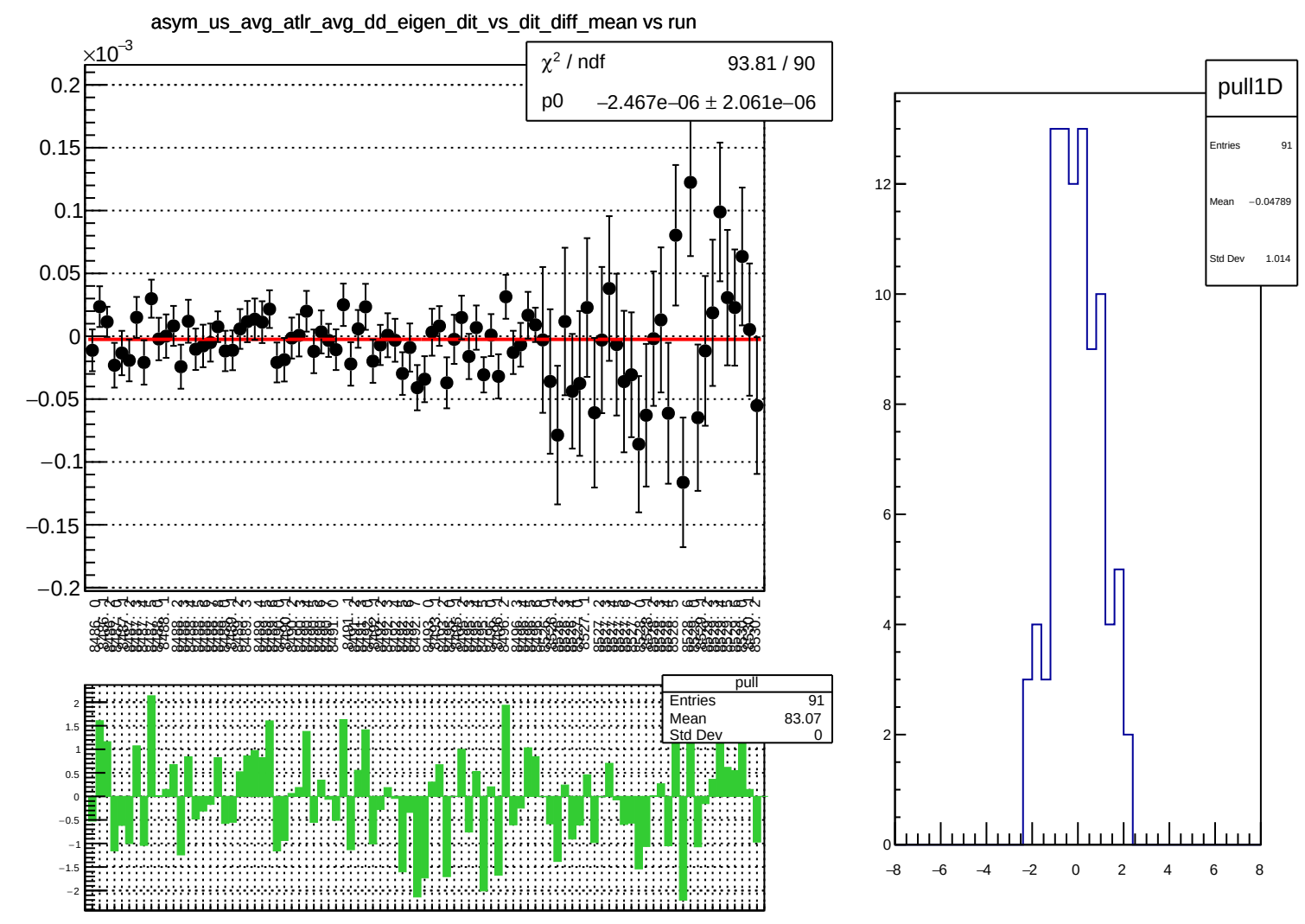

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.142e+06 / 90
p0 1.12e−10 ± 1.438e−13
0
2
4
6
8
10

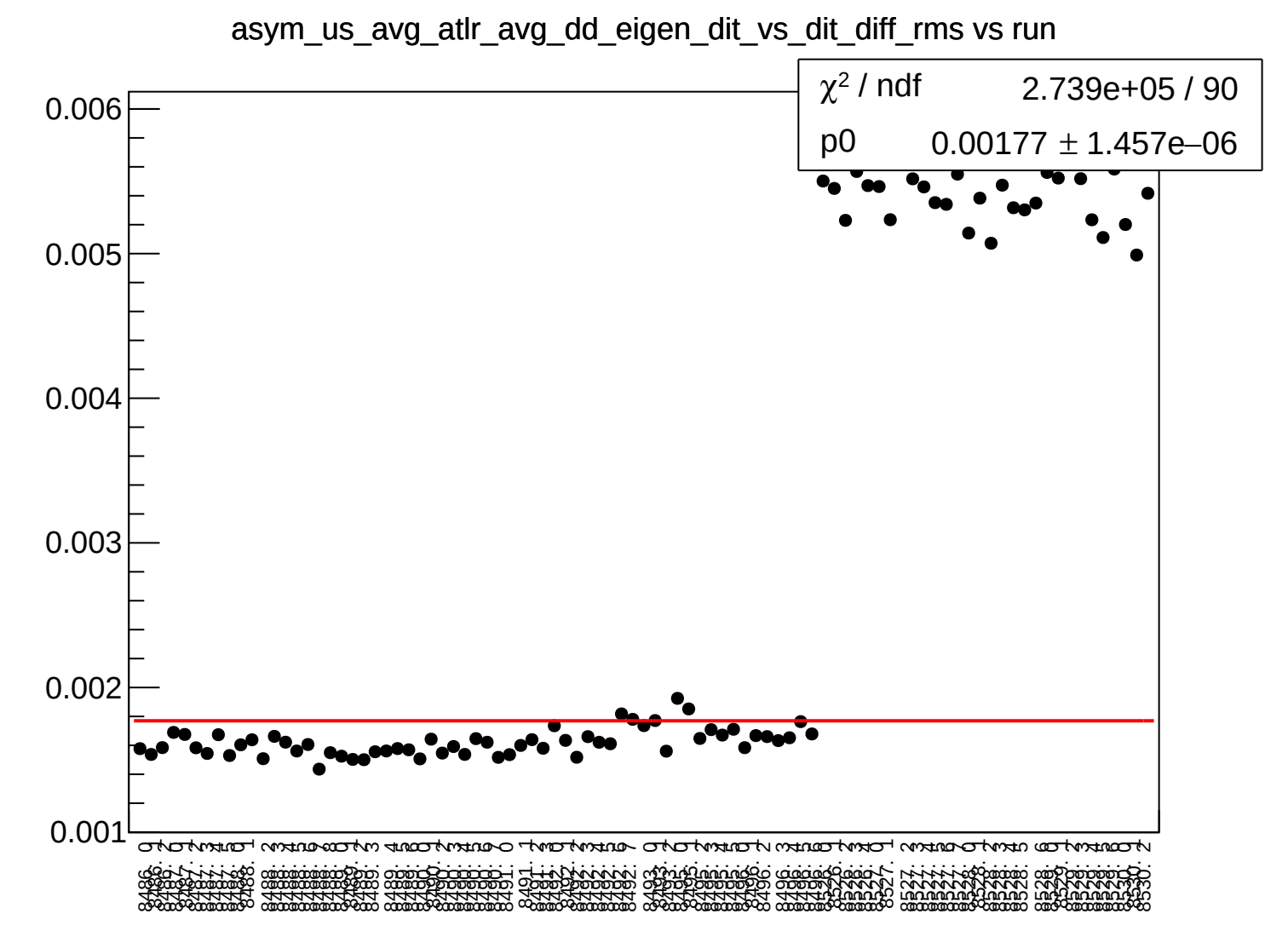

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 81.42 / 90
p0 −0.181 ± 0.2971
pull
Entries 91
Mean 18.14
Std Dev 3.722
pull1D
Entries 91
Mean −0.07542
Std Dev 0.9429

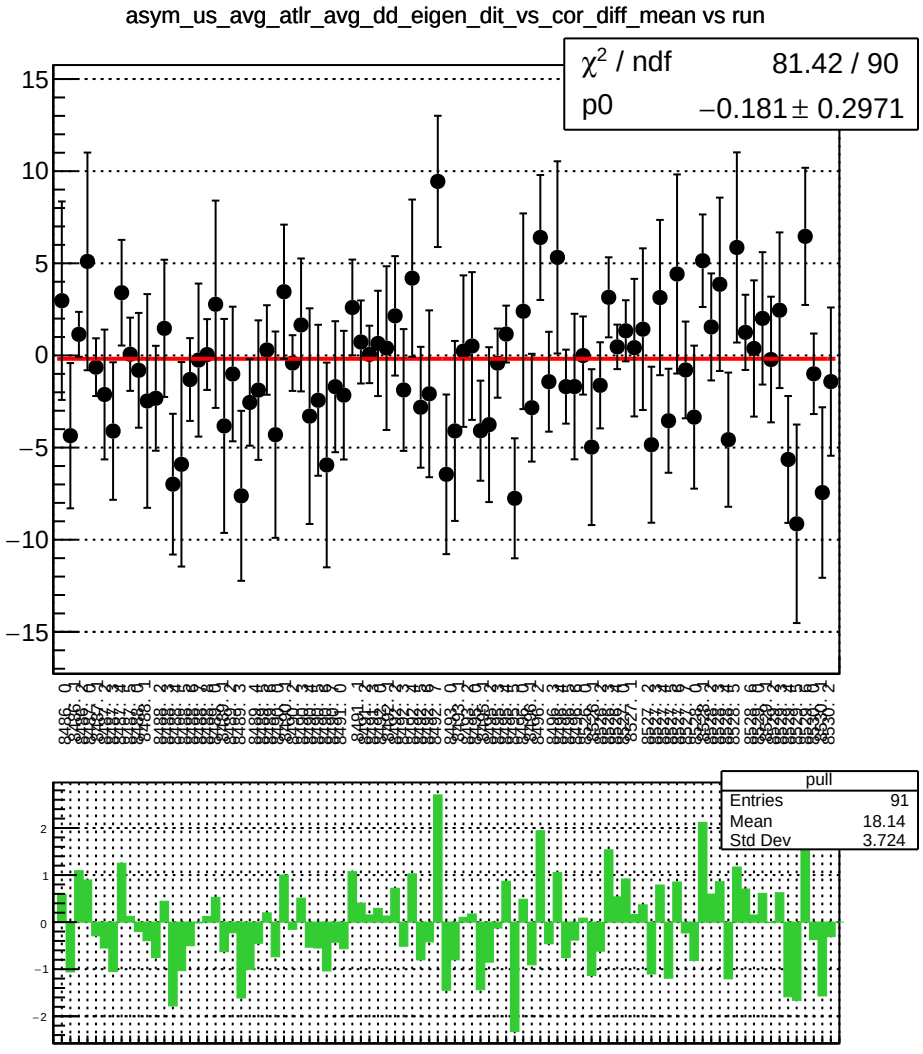

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.495e+05 / 90
p0 257.2 ± 0.2101
600
500
400
300
200

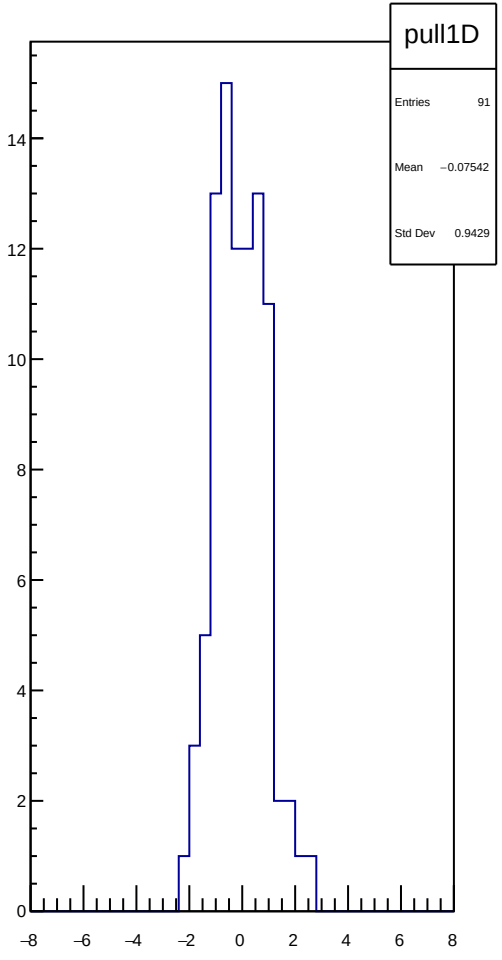

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.42 / 90
p0 −0.181 ± 0.2971
pull
Entries 91
Mean 18.14
Std Dev 3.722
pull1D
Entries 91
Mean −0.07542
Std Dev 0.9429

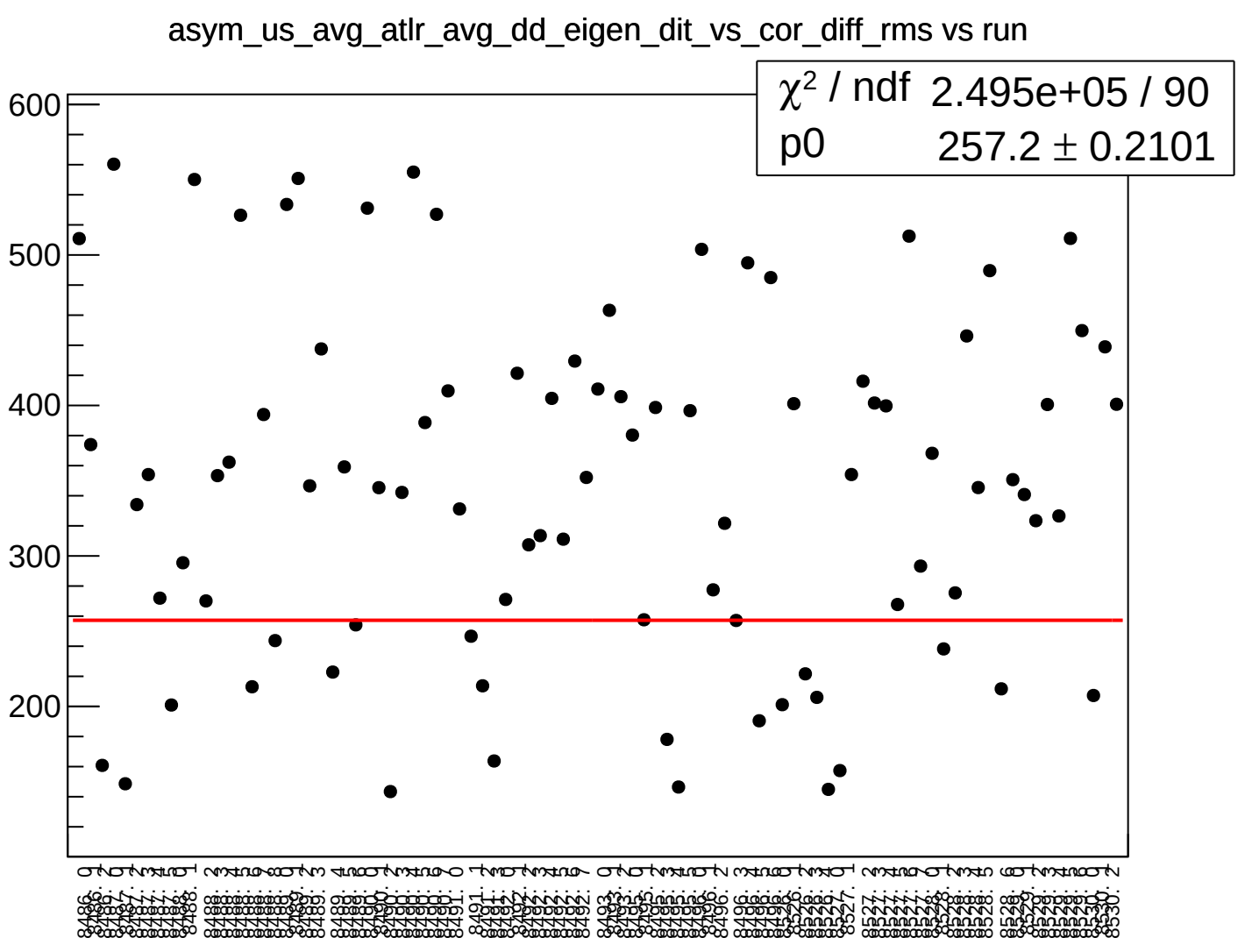

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.495e+05 / 90
p0 257.2 ± 0.2101
600
500
400
300
200

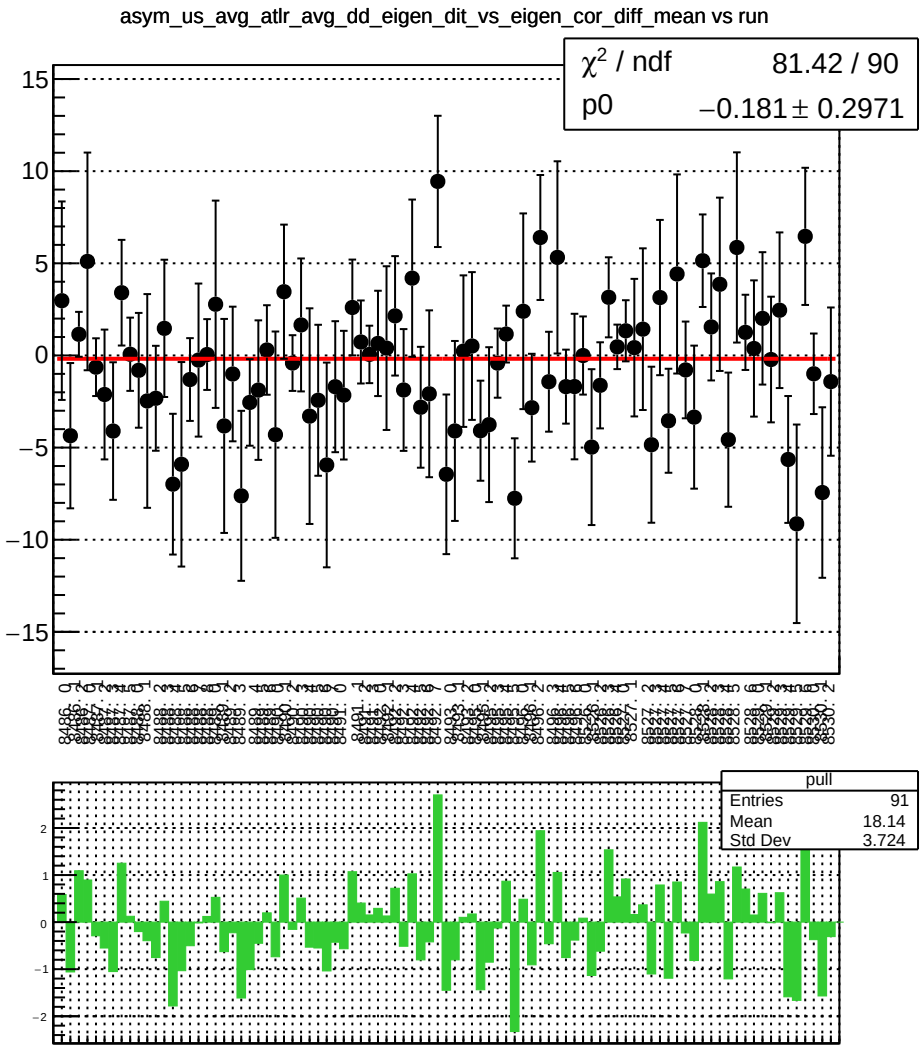

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.81 / 90
p0 −2.467e−06 ± 2.061e−06
pull
Entries 91
Mean 83.07
Std Dev 0
pull1D
Entries 91
Mean −0.04789
Std Dev 1.014

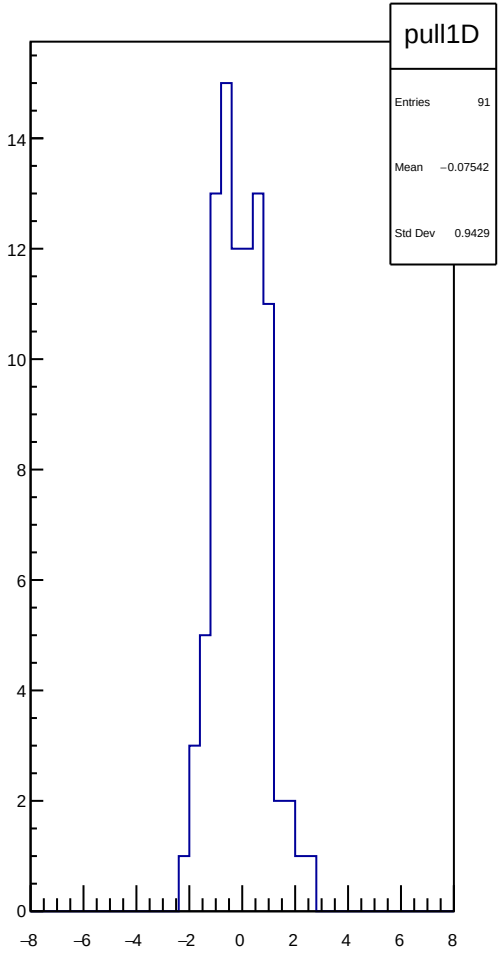

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.739e+05 / 90
p0 0.00177 ± 1.457e−06
0.006
0.005
0.004
0.003
0.002
0.001

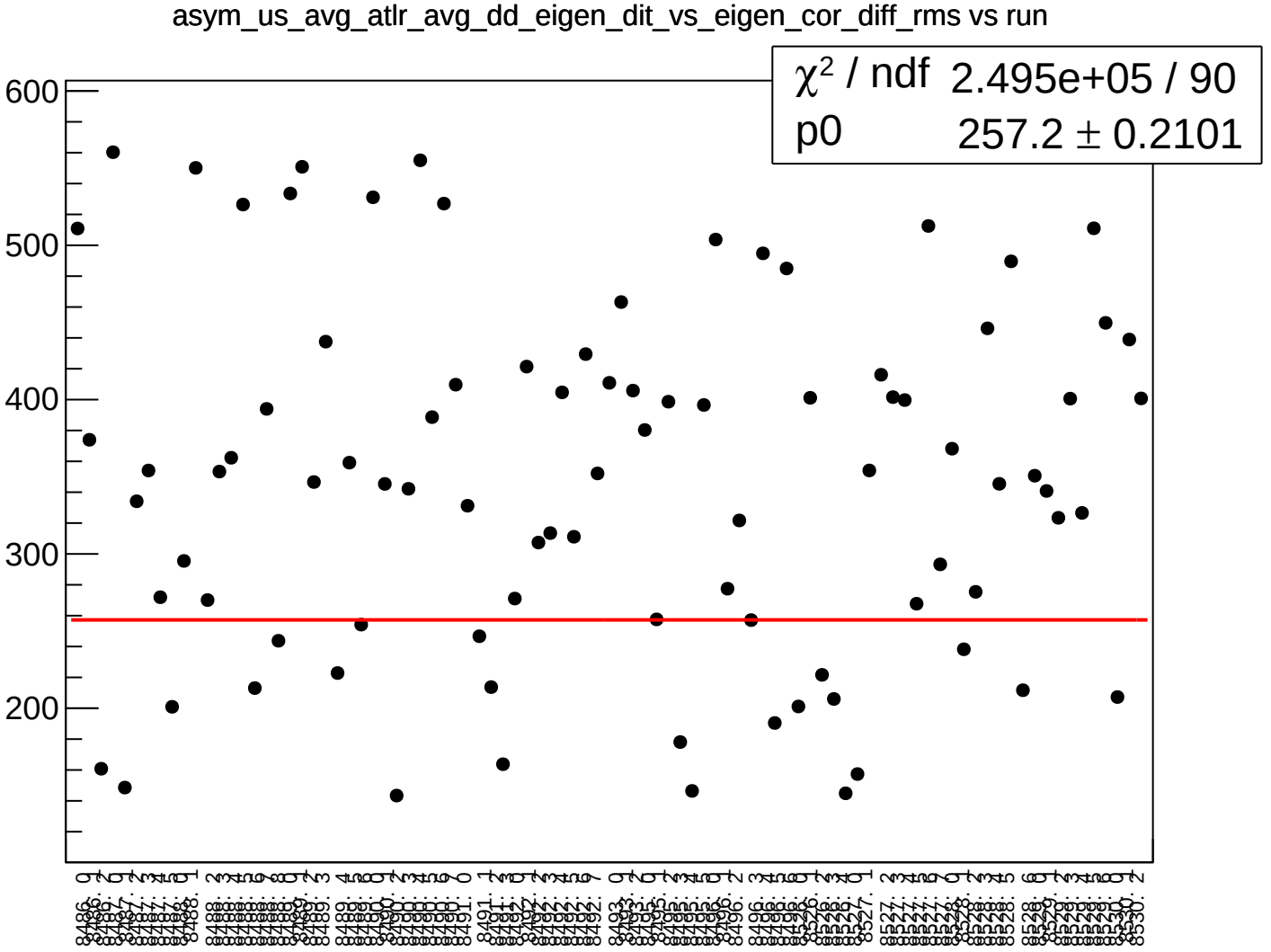

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.42 / 90
p0 −0.181 ± 0.2971
pull
Entries 91
Mean 18.14
Std Dev 3.724

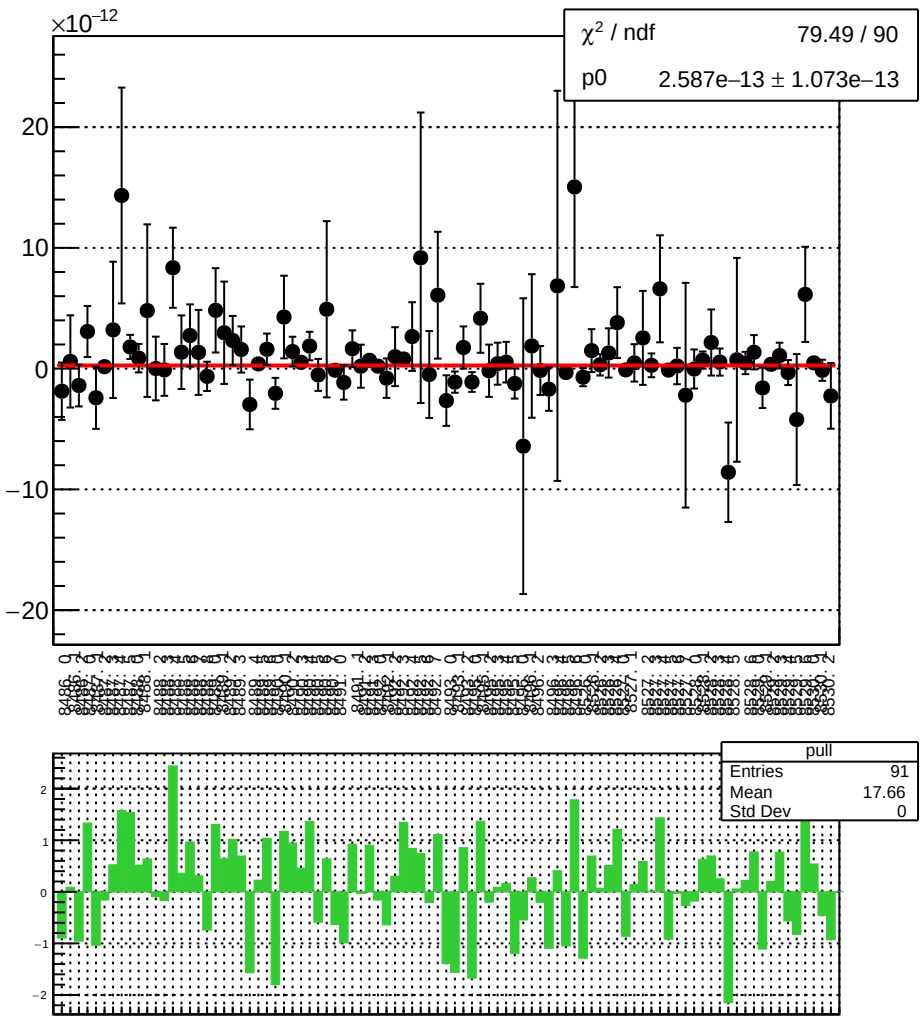

pull1D
Entries 91
Mean −0.07542
Std Dev 0.9429

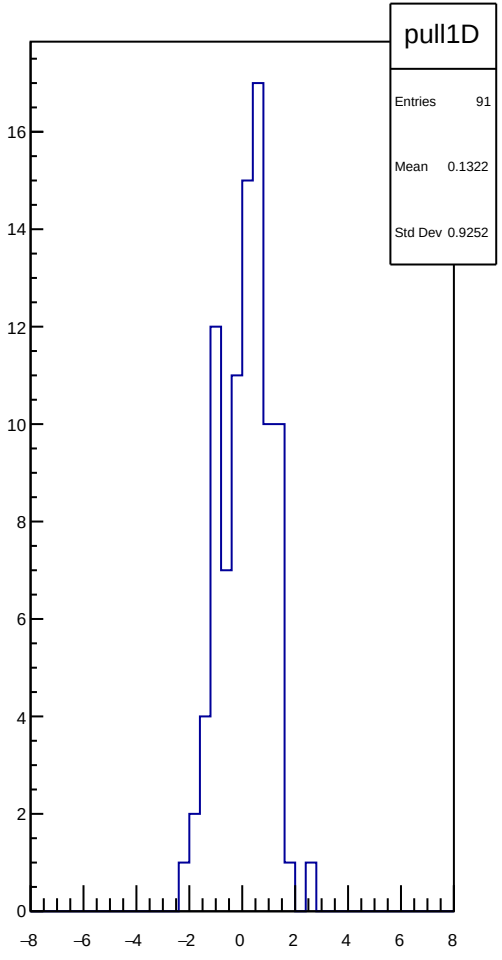

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.495e+05 / 90
p0 257.2 ± 0.2101
600
500
400
300
200

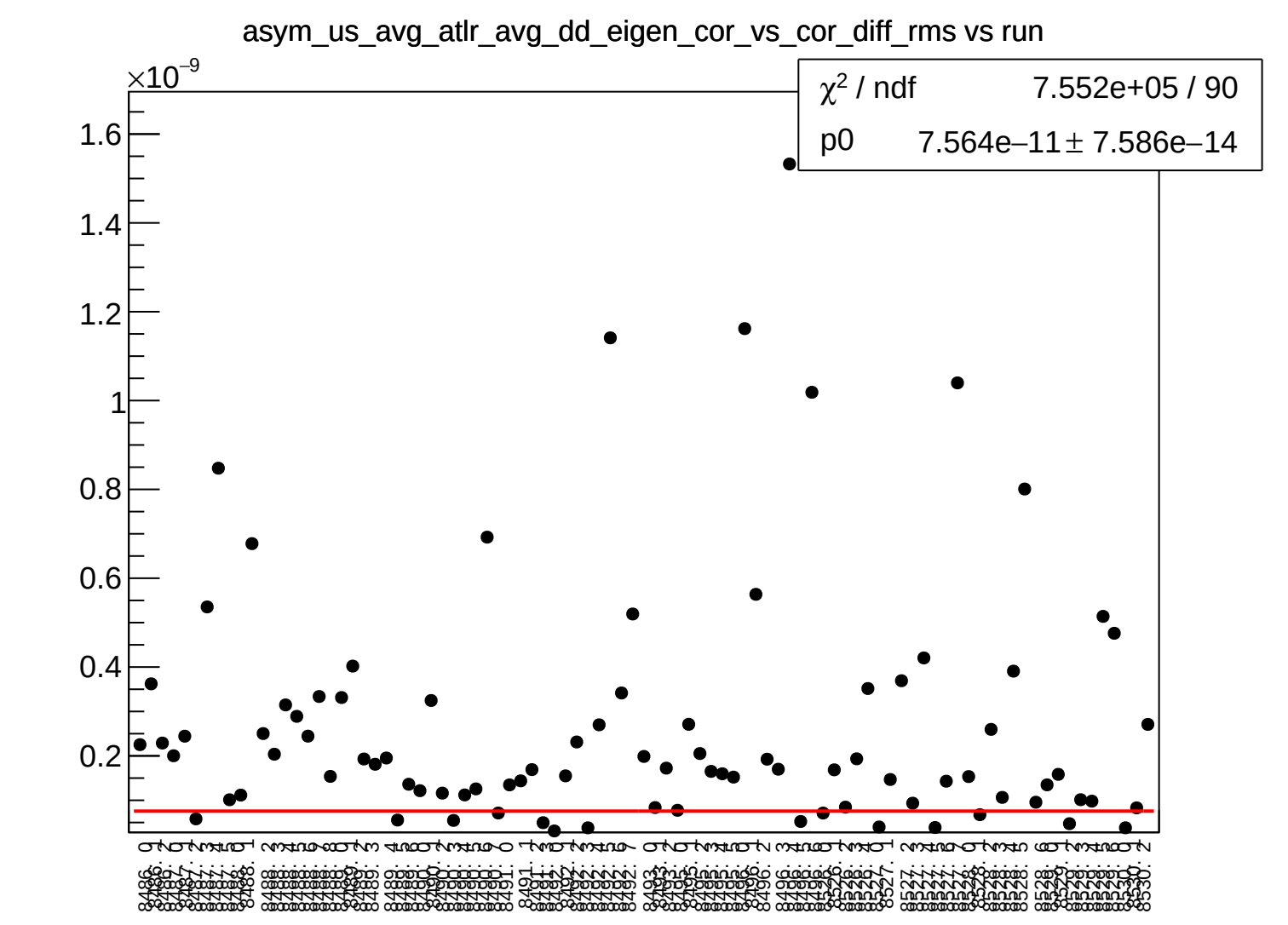

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.42 / 90
p0 −0.181 ± 0.2971
pull
Entries 91
Mean 18.14
Std Dev 3.724

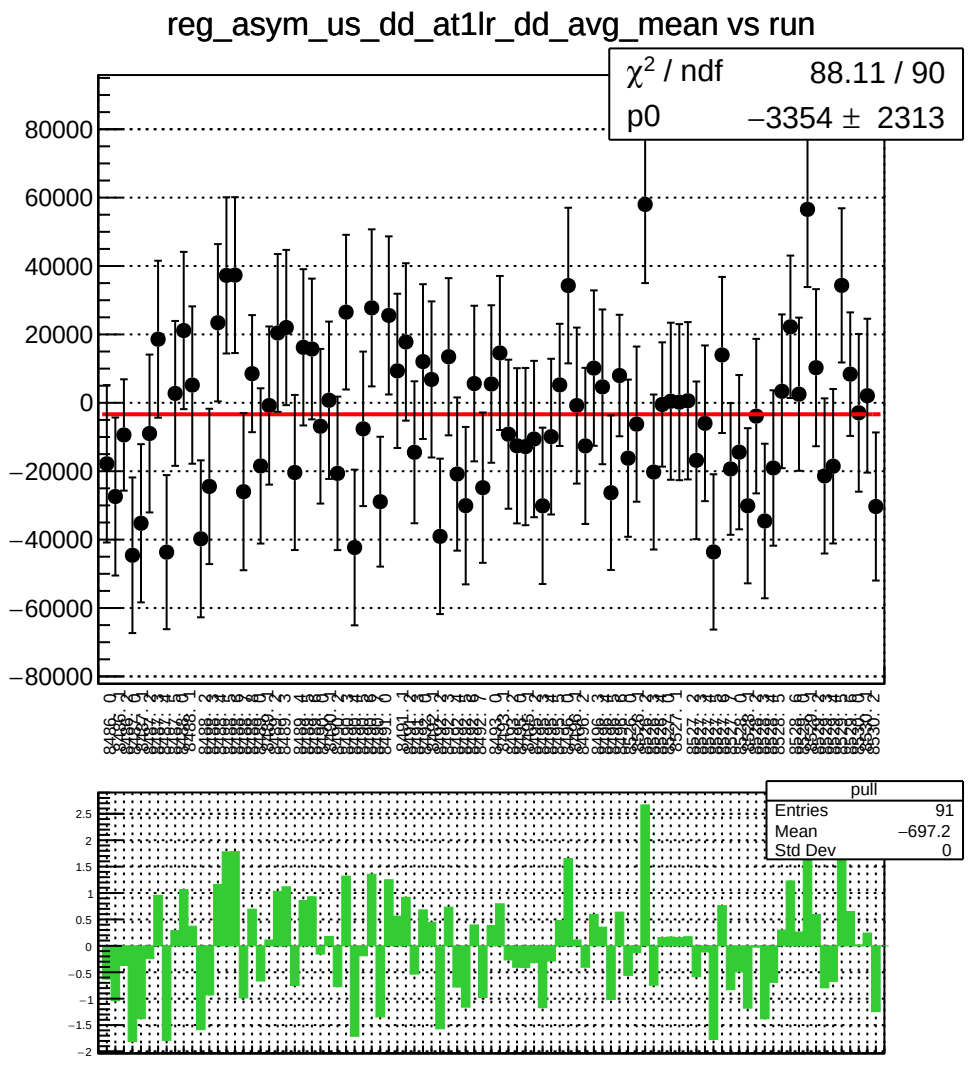

pull1D
Entries 91
Mean −0.07542
Std Dev 0.9429

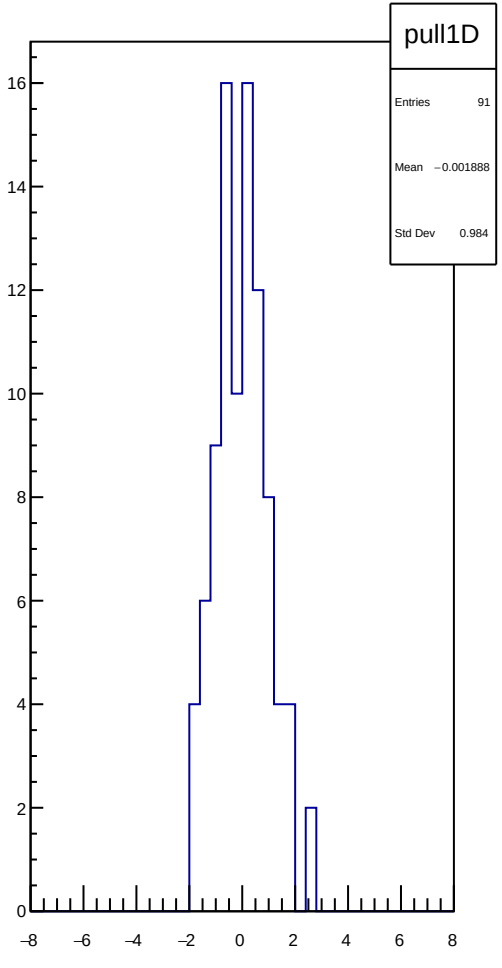

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.495e+05 / 90
p0 257.2 ± 0.2101
600
500
400
300
200

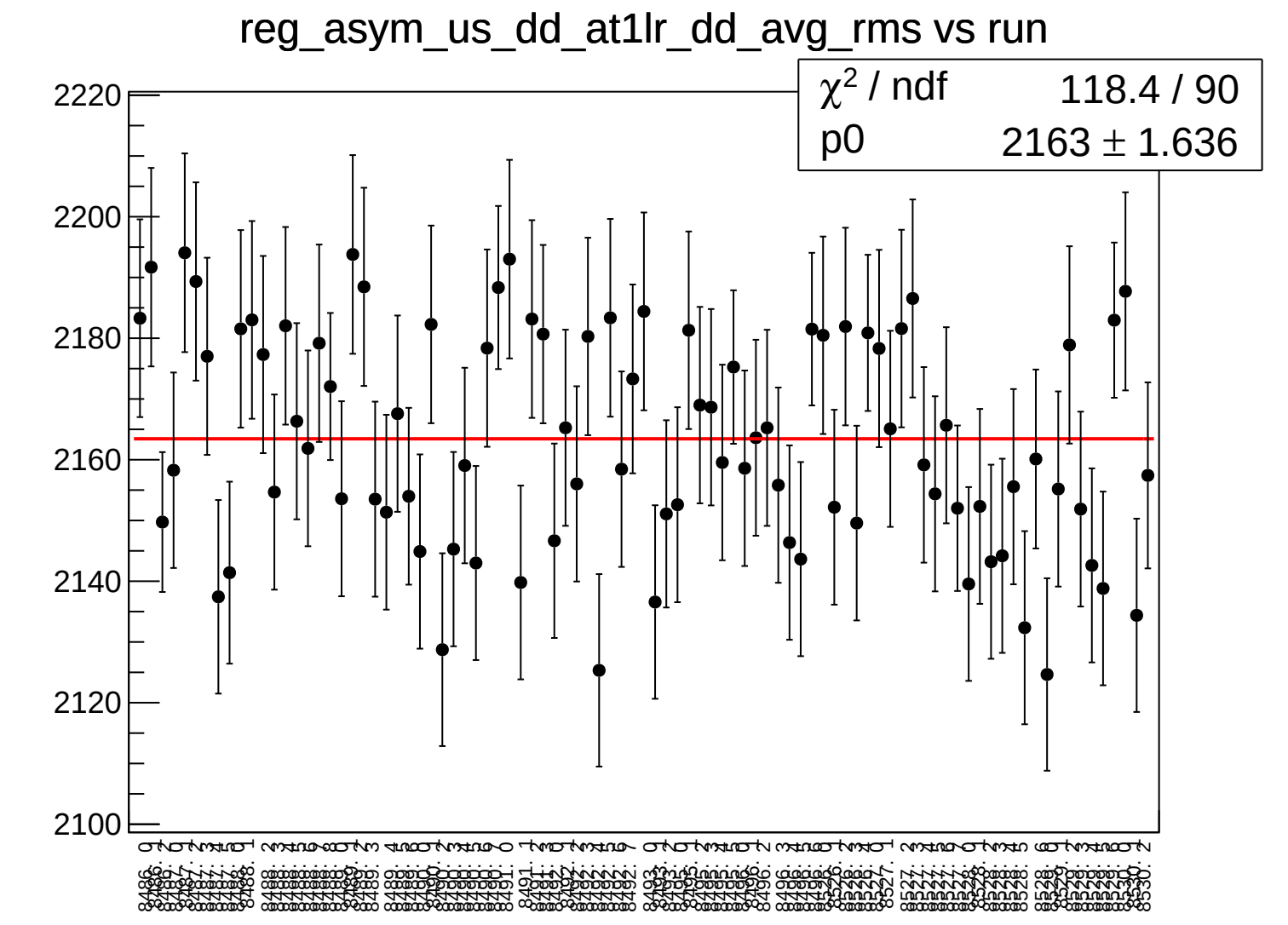

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.49 / 90
p0 2.587e−13 ± 1.073e−13
20
10
0
−10
−20
pull
Entries 91
Mean 17.66
Std Dev 0
2
1
0
−1
−2

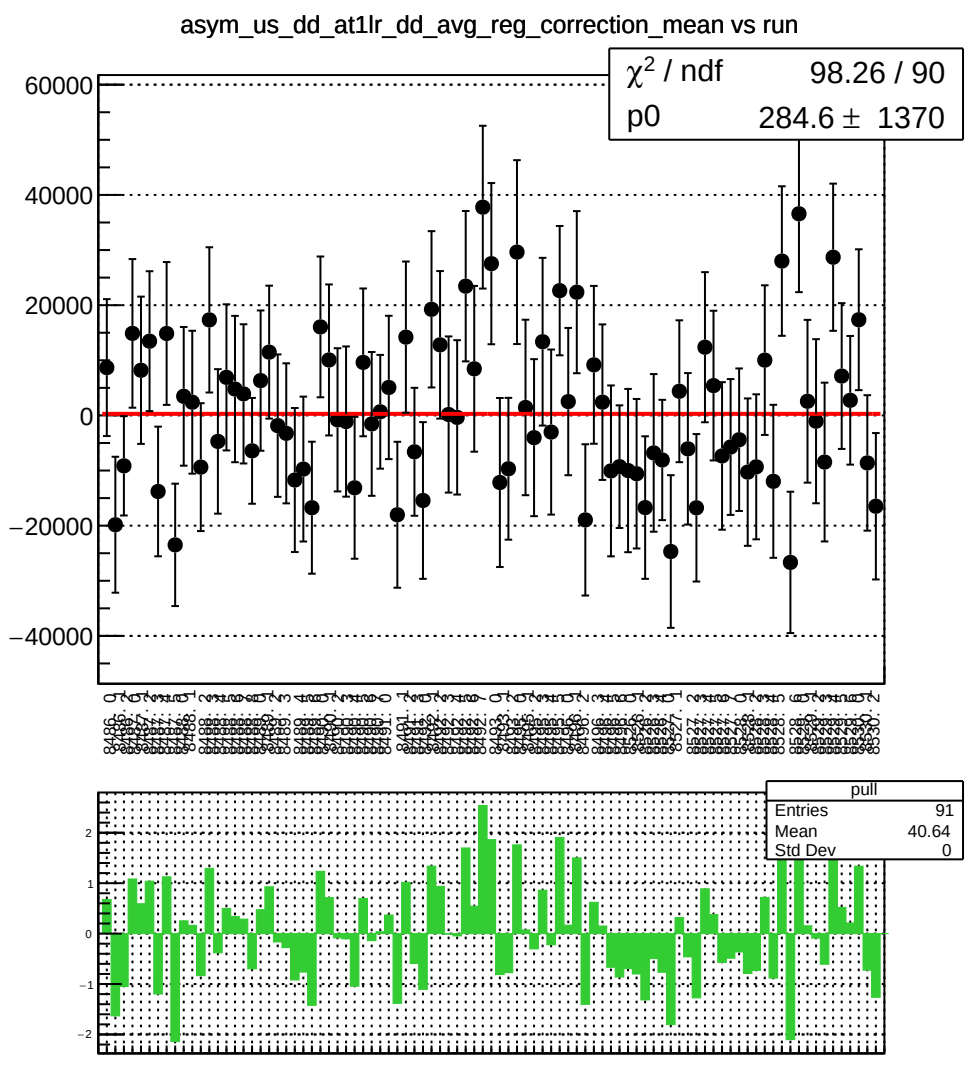

pull1D
Entries 91
Mean 0.1322
Std Dev 0.9252
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

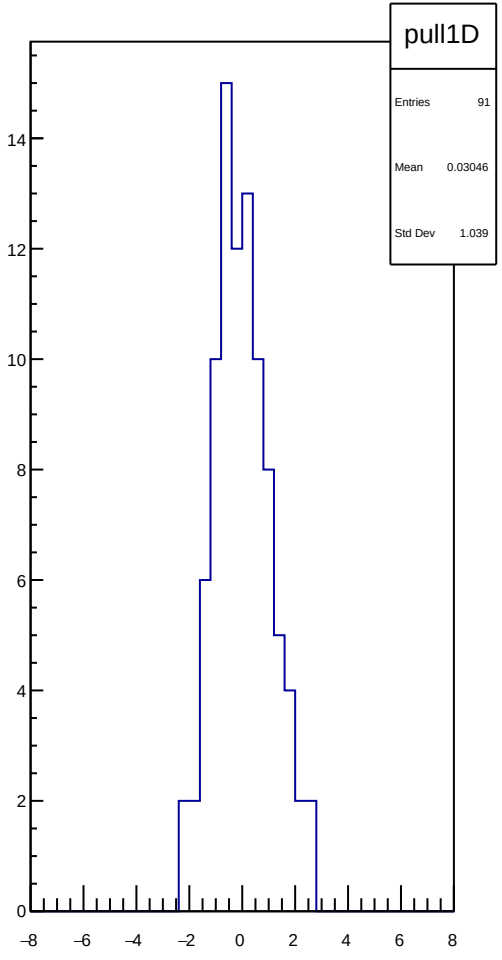

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.552e+05 / 90
p0 7.564e−11 ± 7.586e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

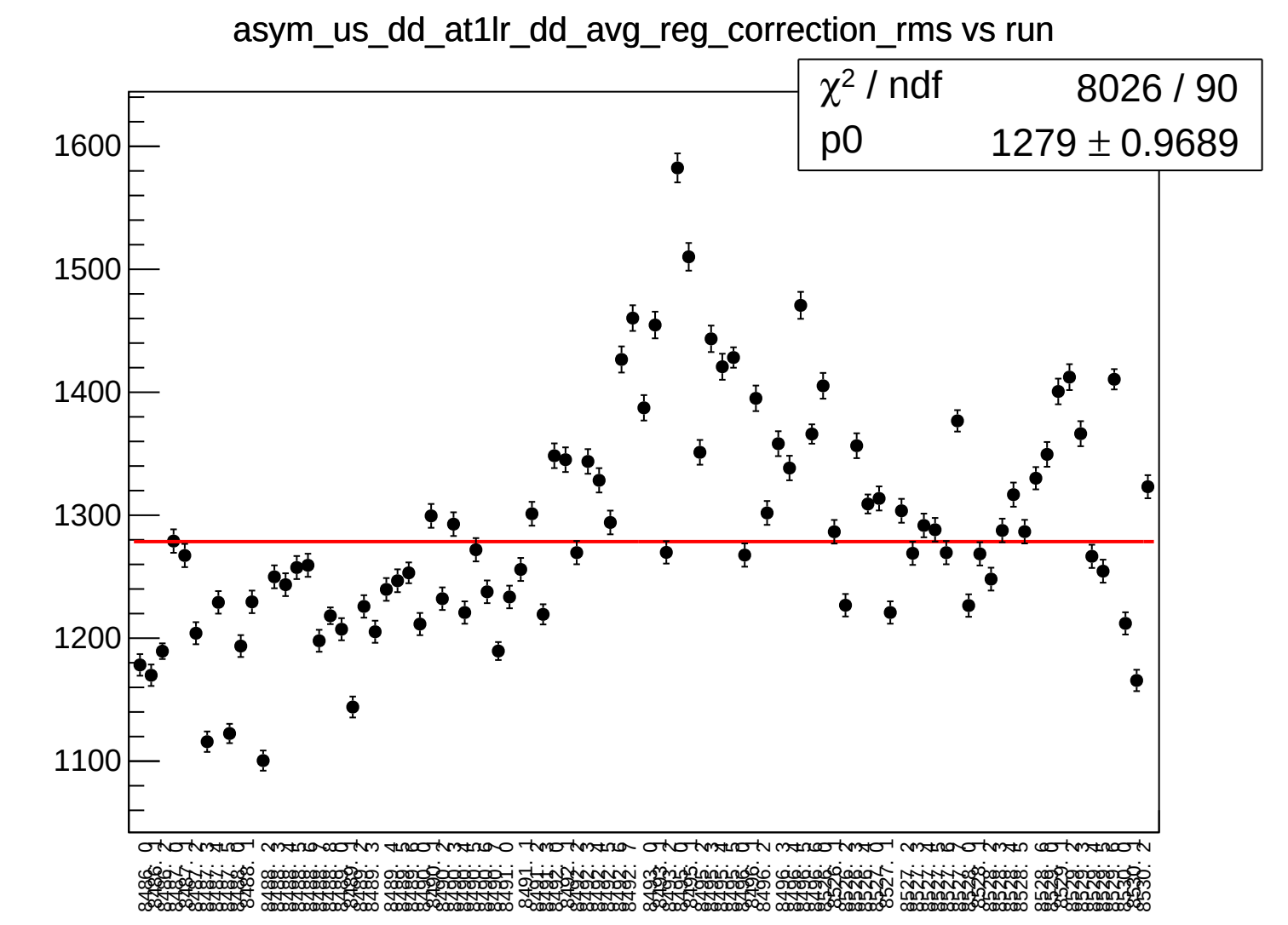

reg_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 88.11 / 90
p0 −3354 ± 2313
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean −697.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

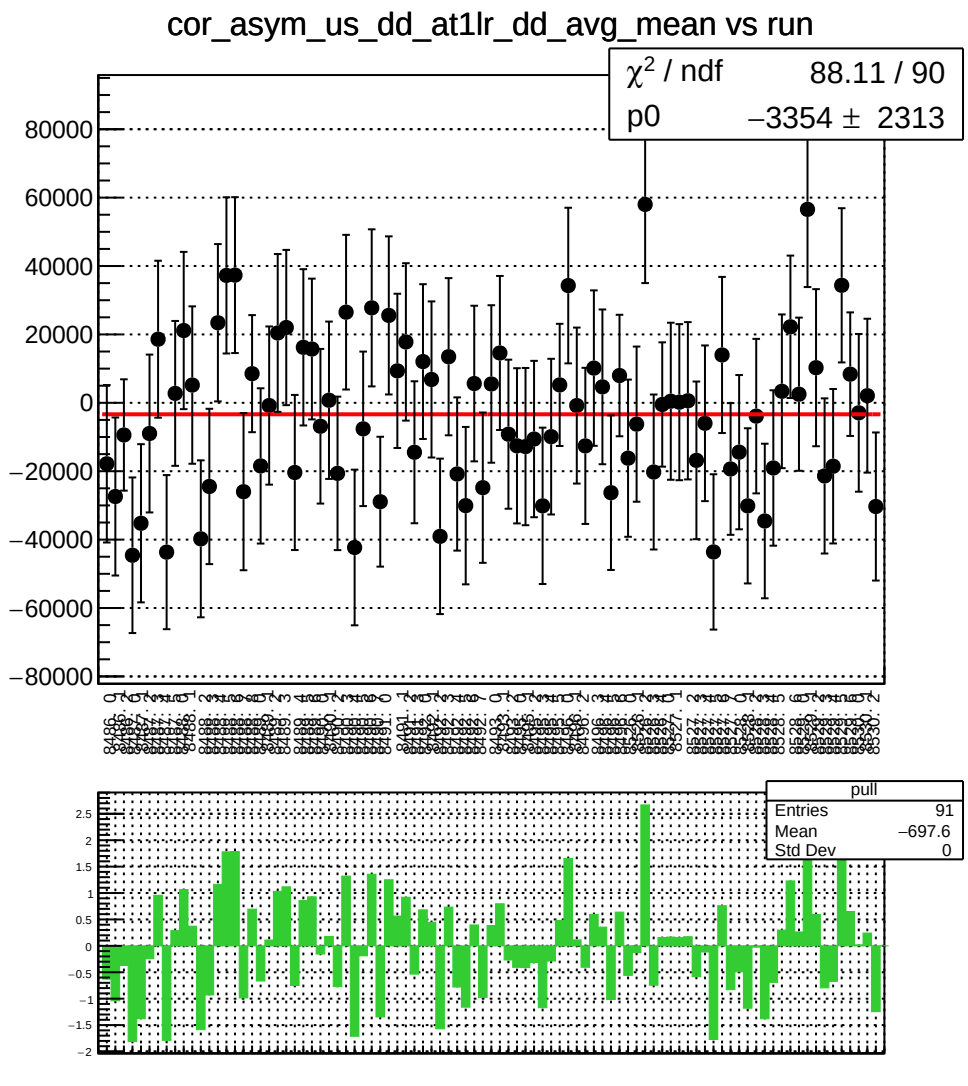

pull1D
Entries 91
Mean −0.001888
Std Dev 0.984
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

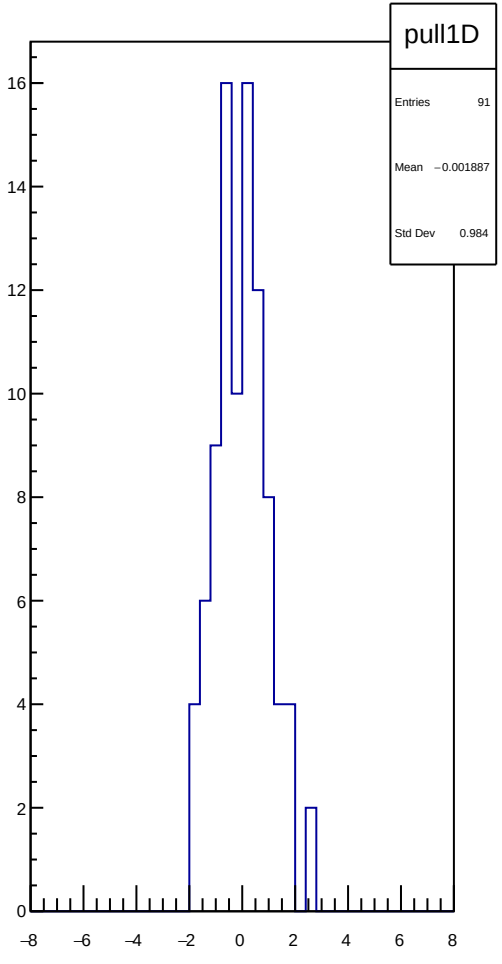

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 118.4 / 90
p0 2163 ± 1.636
2220
2200
2180
2160
2140
2120
2100

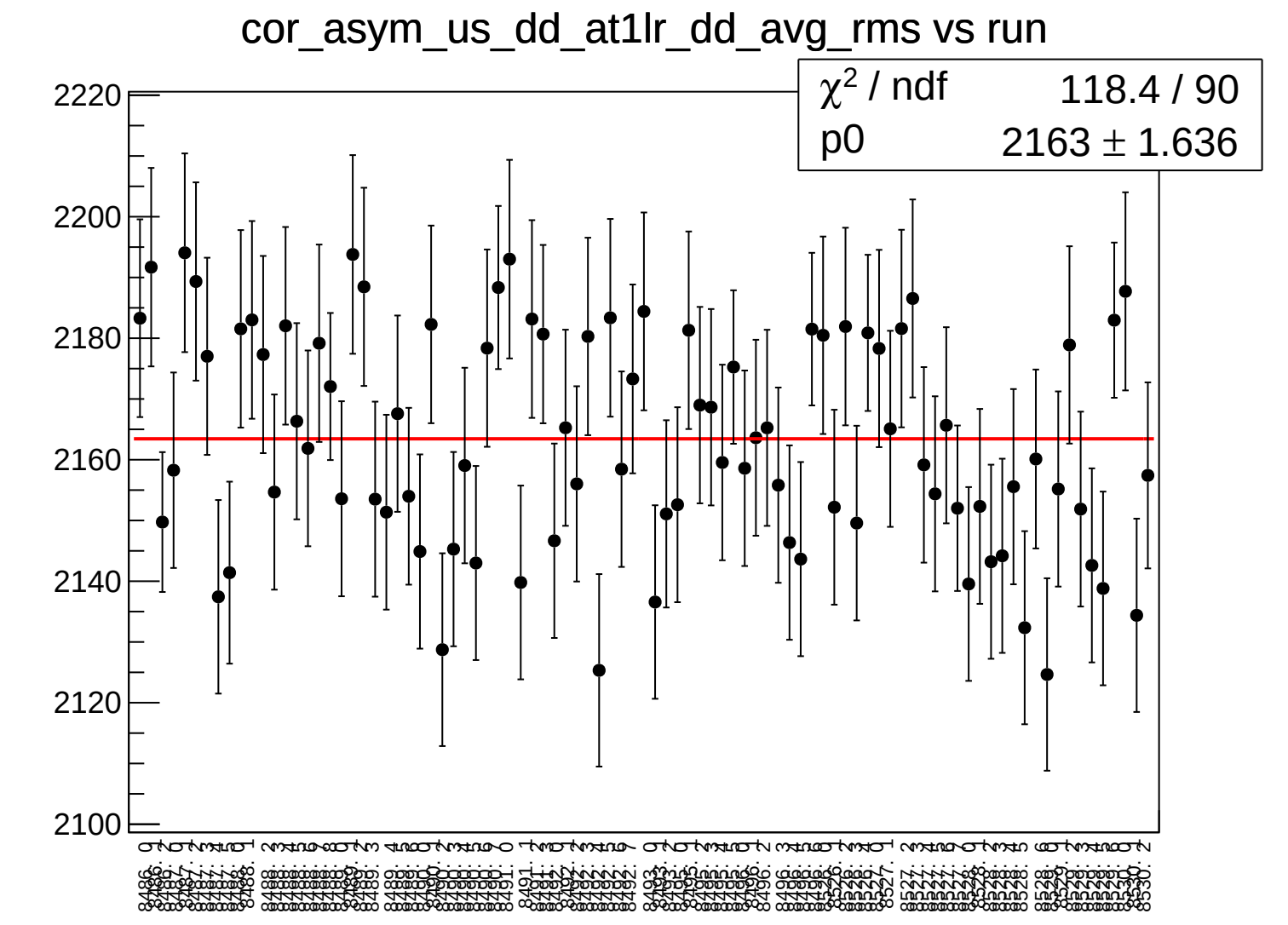

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 98.26 / 90
p0 284.6 ± 1370
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 40.64
Std Dev 0
2
1
0
−1
−2

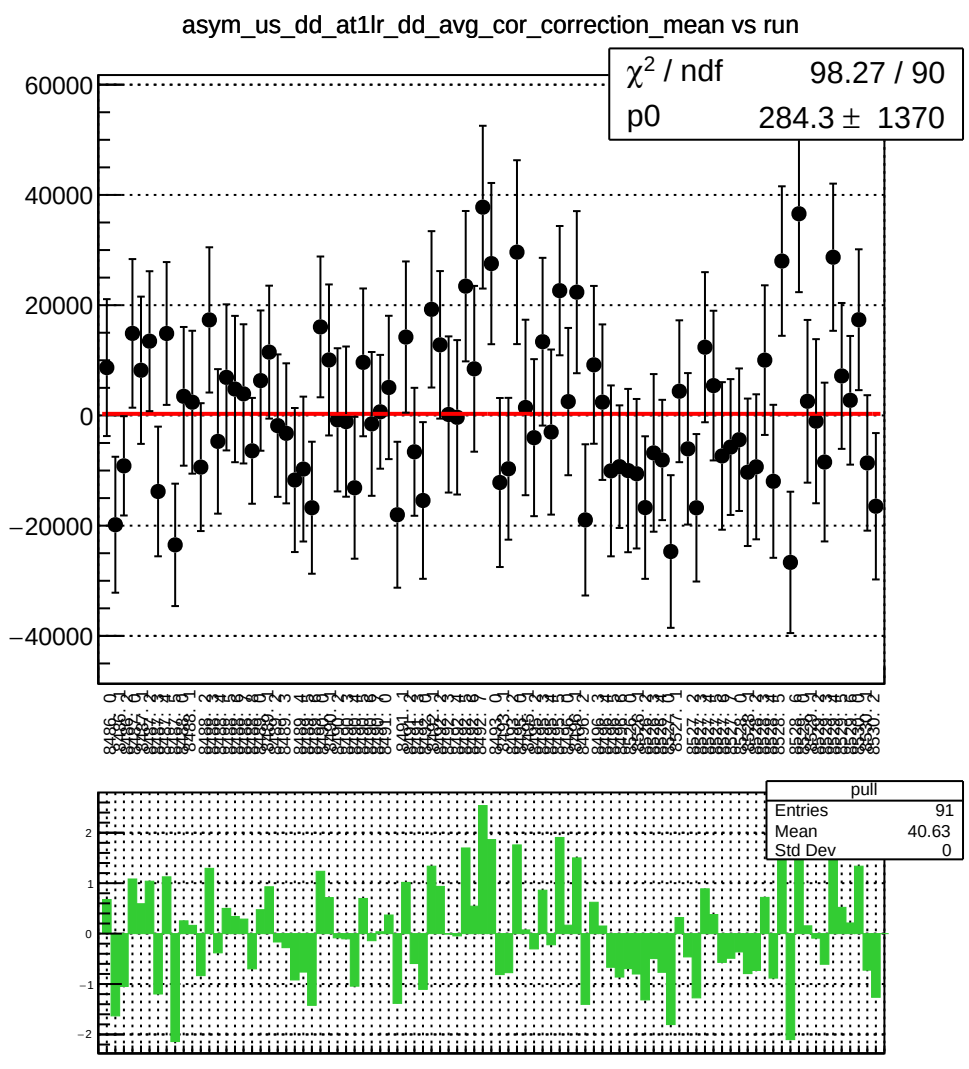

pull1D
Entries 91
Mean 0.03046
Std Dev 1.039
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

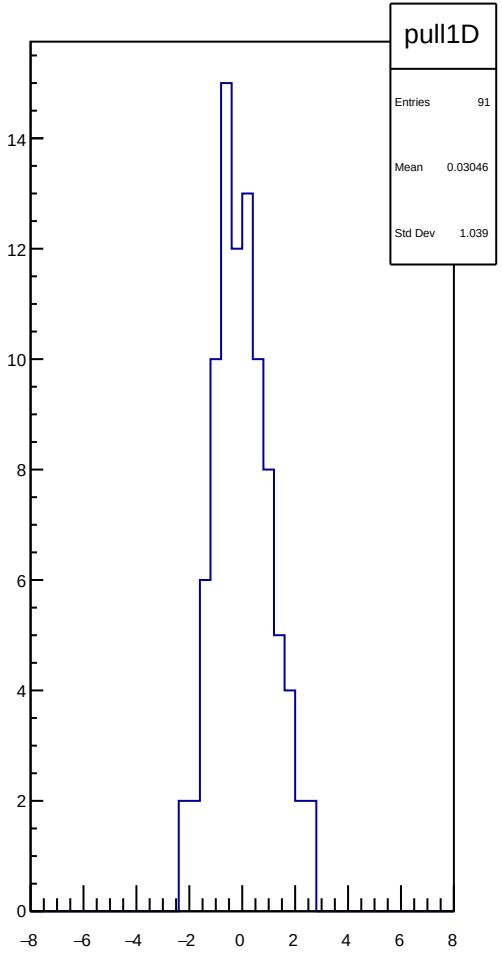

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 8026 / 90
p0 1279 ± 0.9689
1600
1500
1400
1300
1200
1100

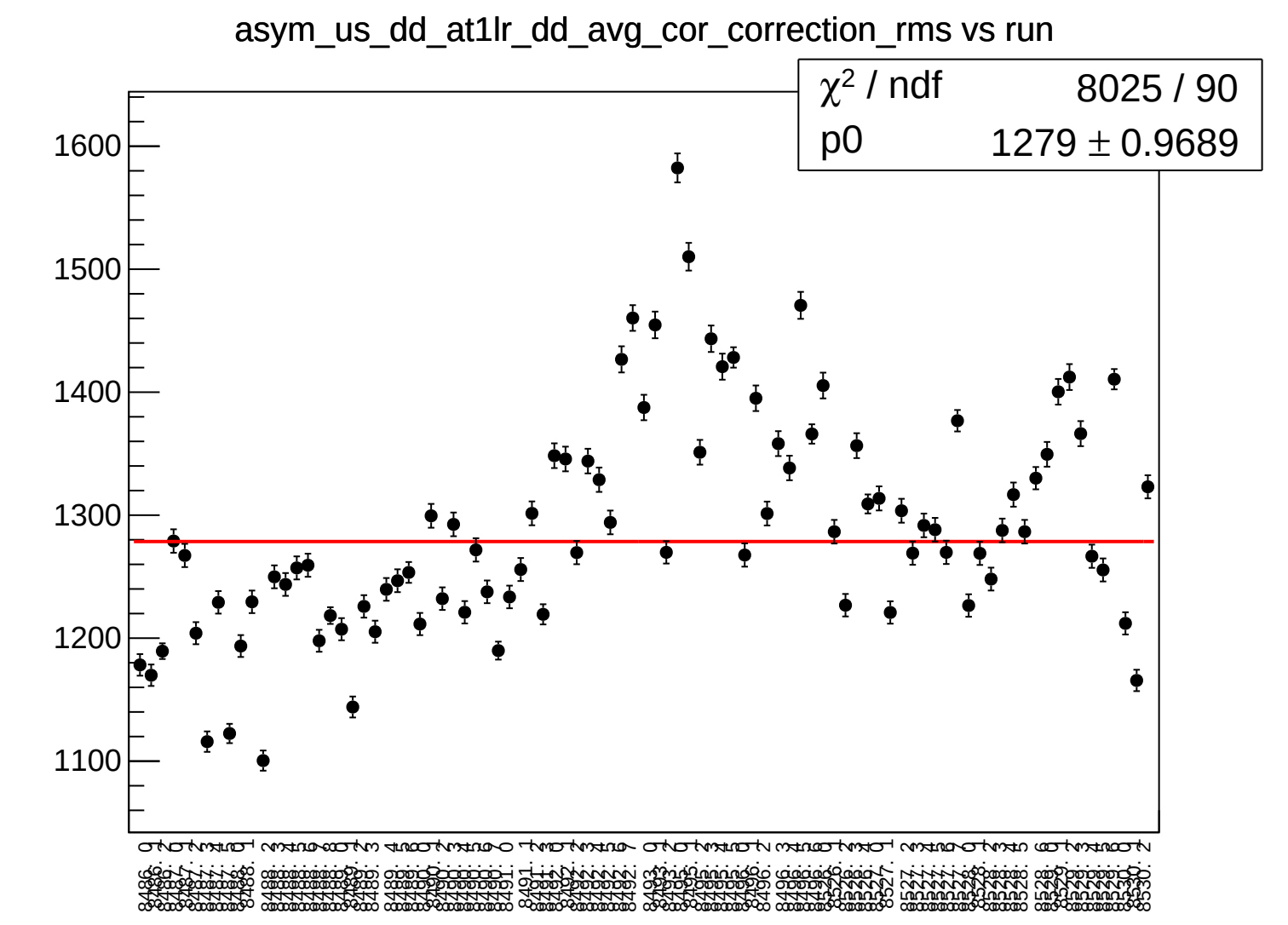

cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 88.11 / 90
p0 −3354 ± 2313
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean −697.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

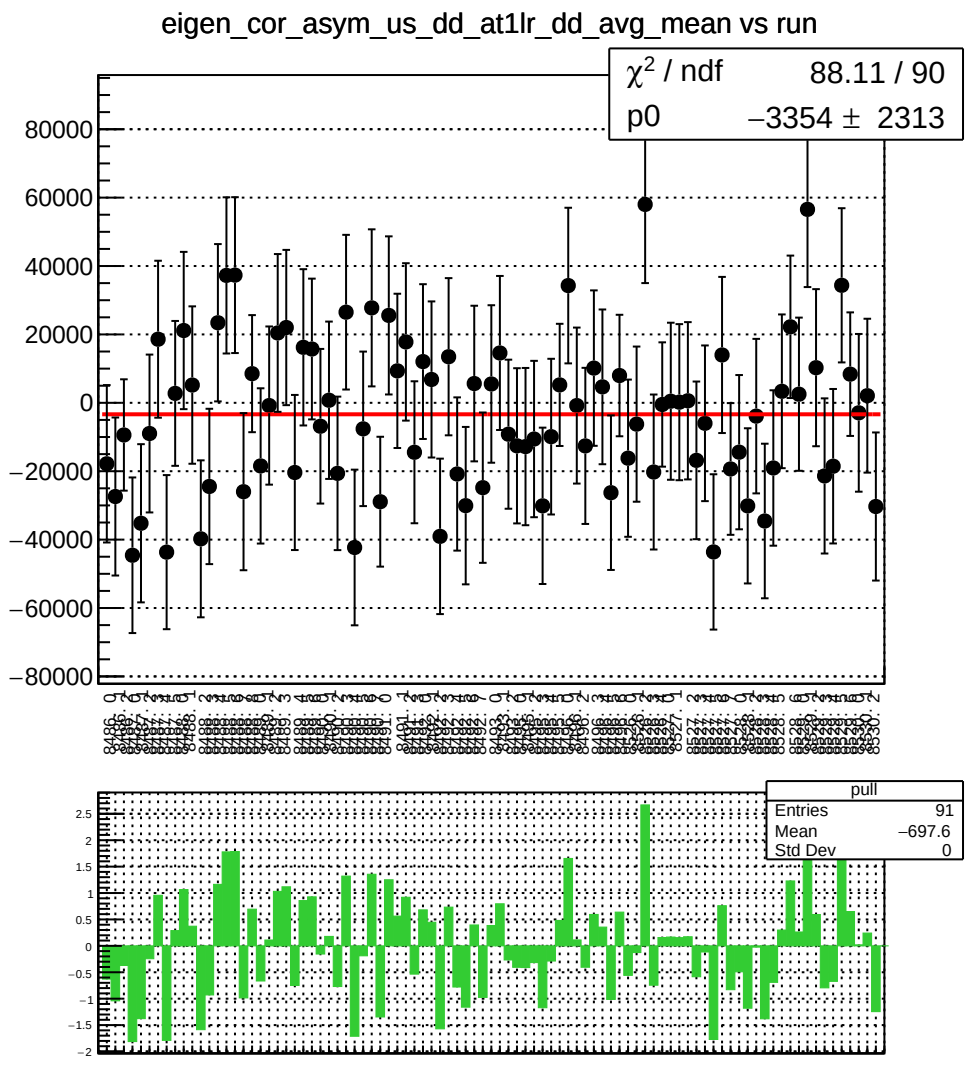

pull1D
Entries 91
Mean −0.001887
Std Dev 0.984
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

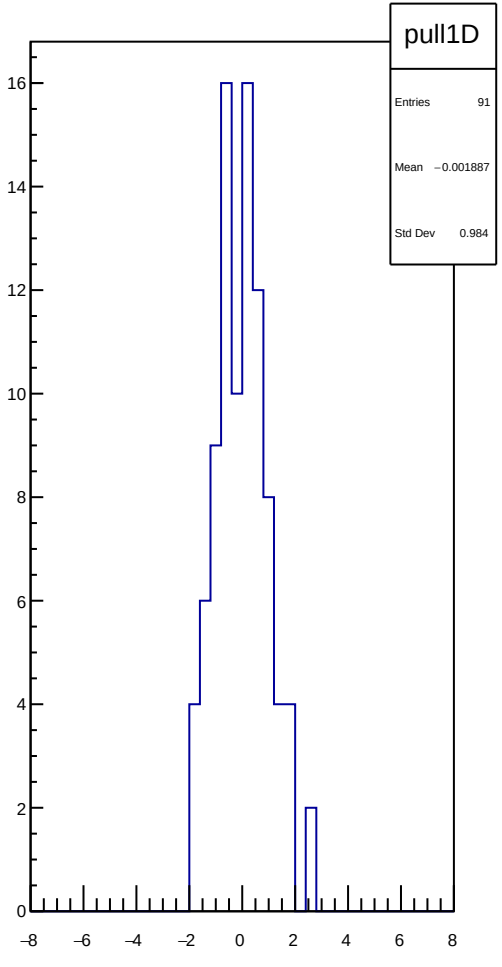

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 118.4 / 90
p0 2163 ± 1.636
2220
2200
2180
2160
2140
2120
2100

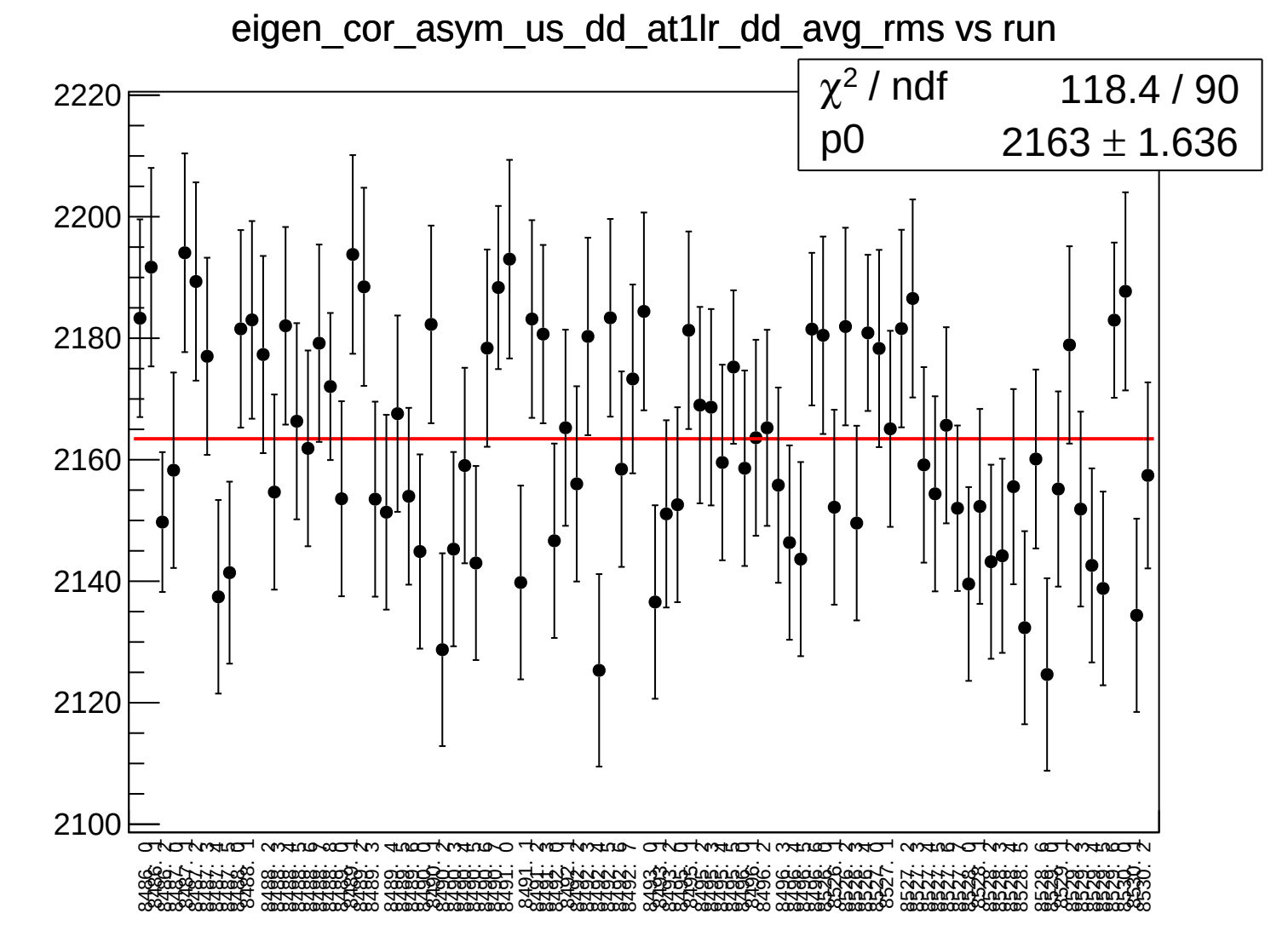

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 98.27 / 90
p0 284.3 ± 1370
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 40.63
Std Dev 0
2
1
0
−1
−2

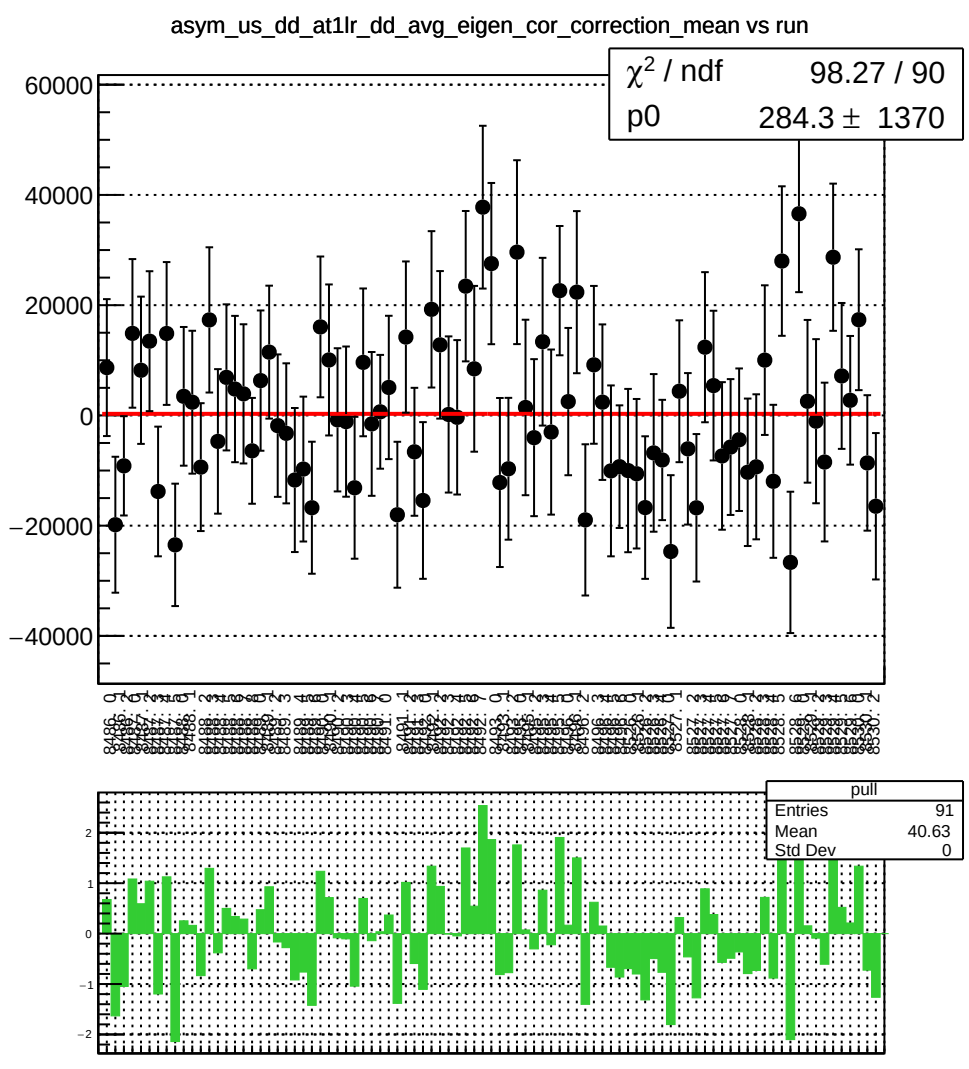

pull1D
Entries 91
Mean 0.03046
Std Dev 1.039
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

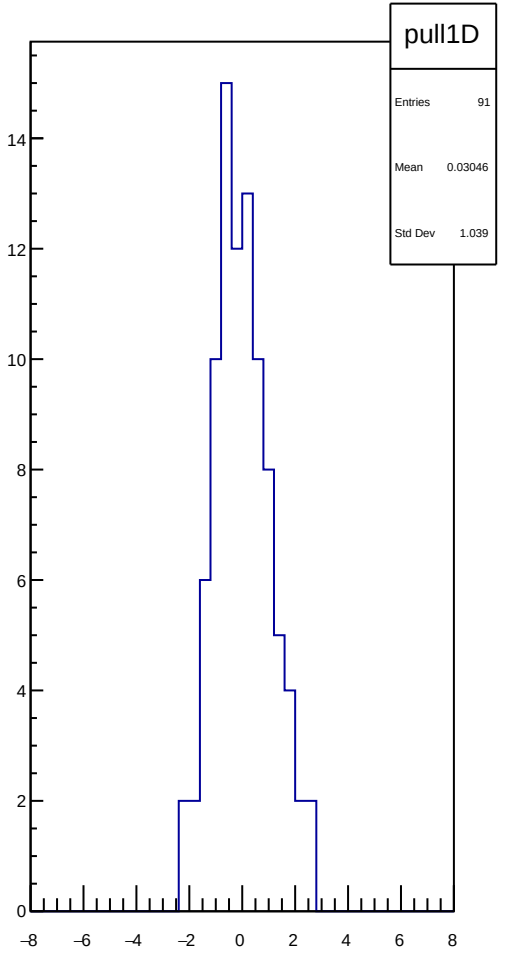

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ² / ndf 8025 / 90
p0 1279 ± 0.9689
1600
1500
1400
1300
1200
1100

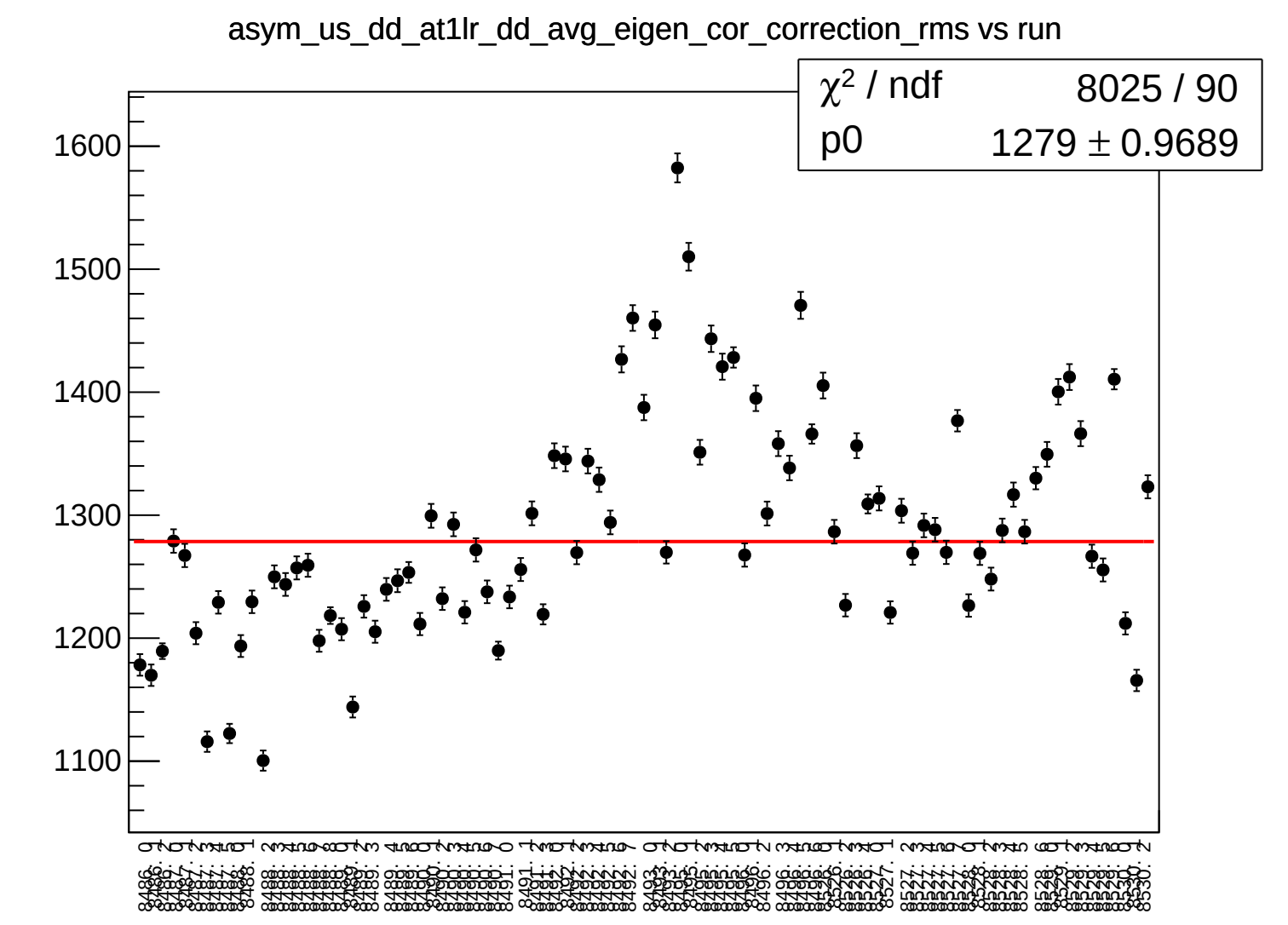

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 88.11 / 90
p0 −3354 ± 2313
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean −697.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

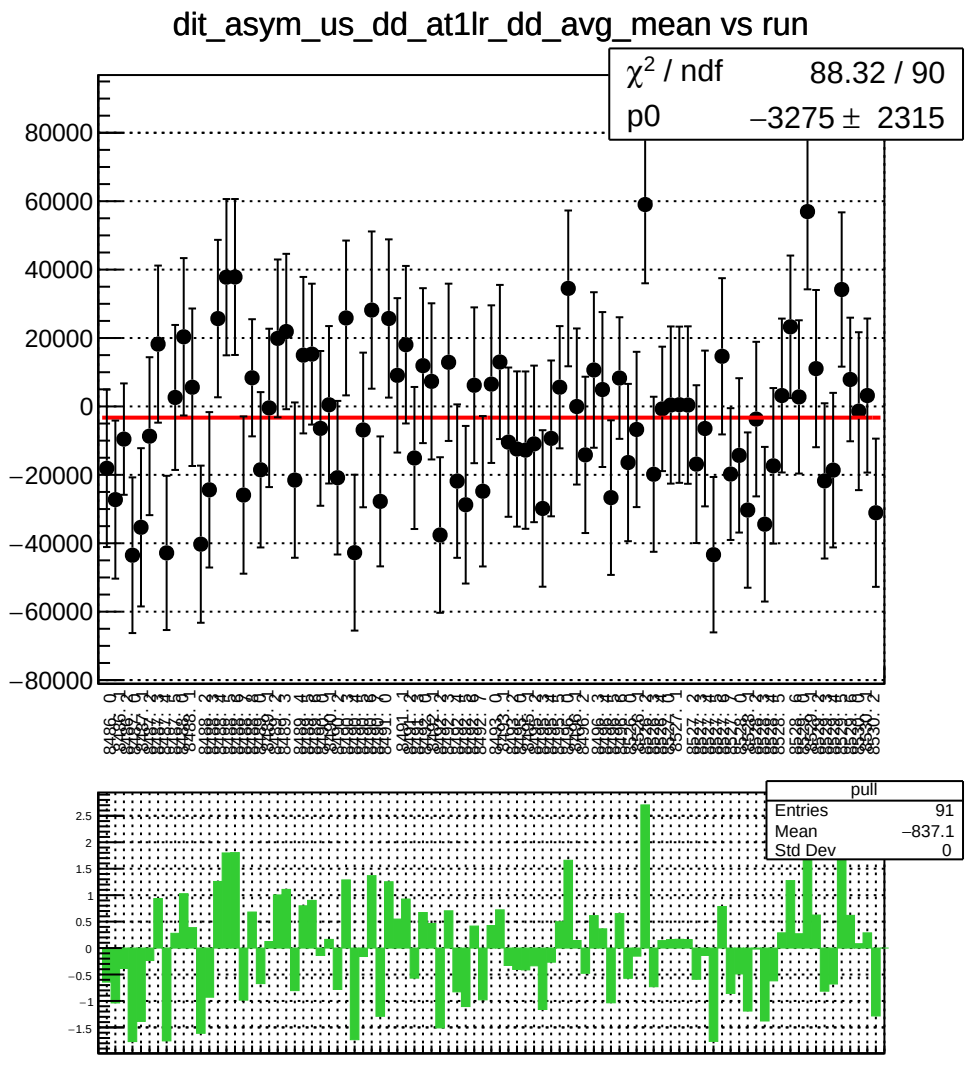

pull1D
Entries 91
Mean −0.001887
Std Dev 0.984
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

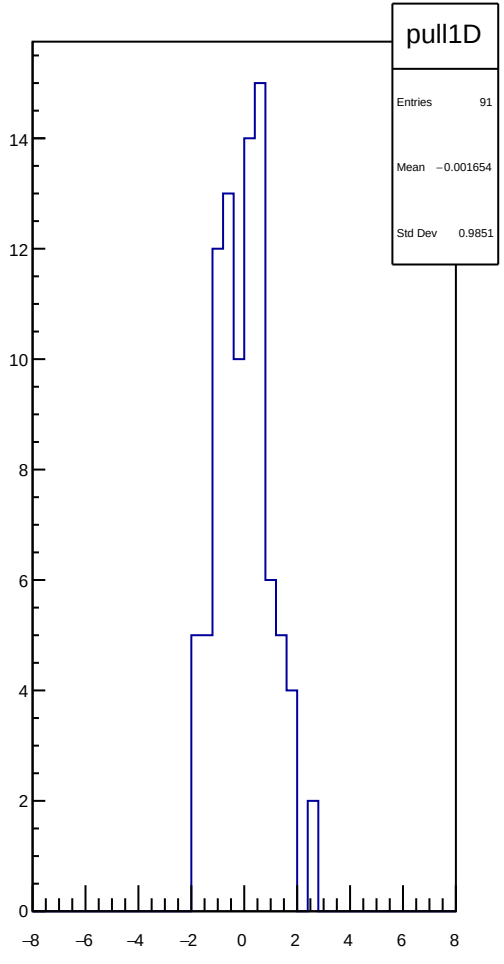

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ^2 / ndf 118.4 / 90
p0 2163 ± 1.636
2220
2200
2180
2160
2140
2120
2100

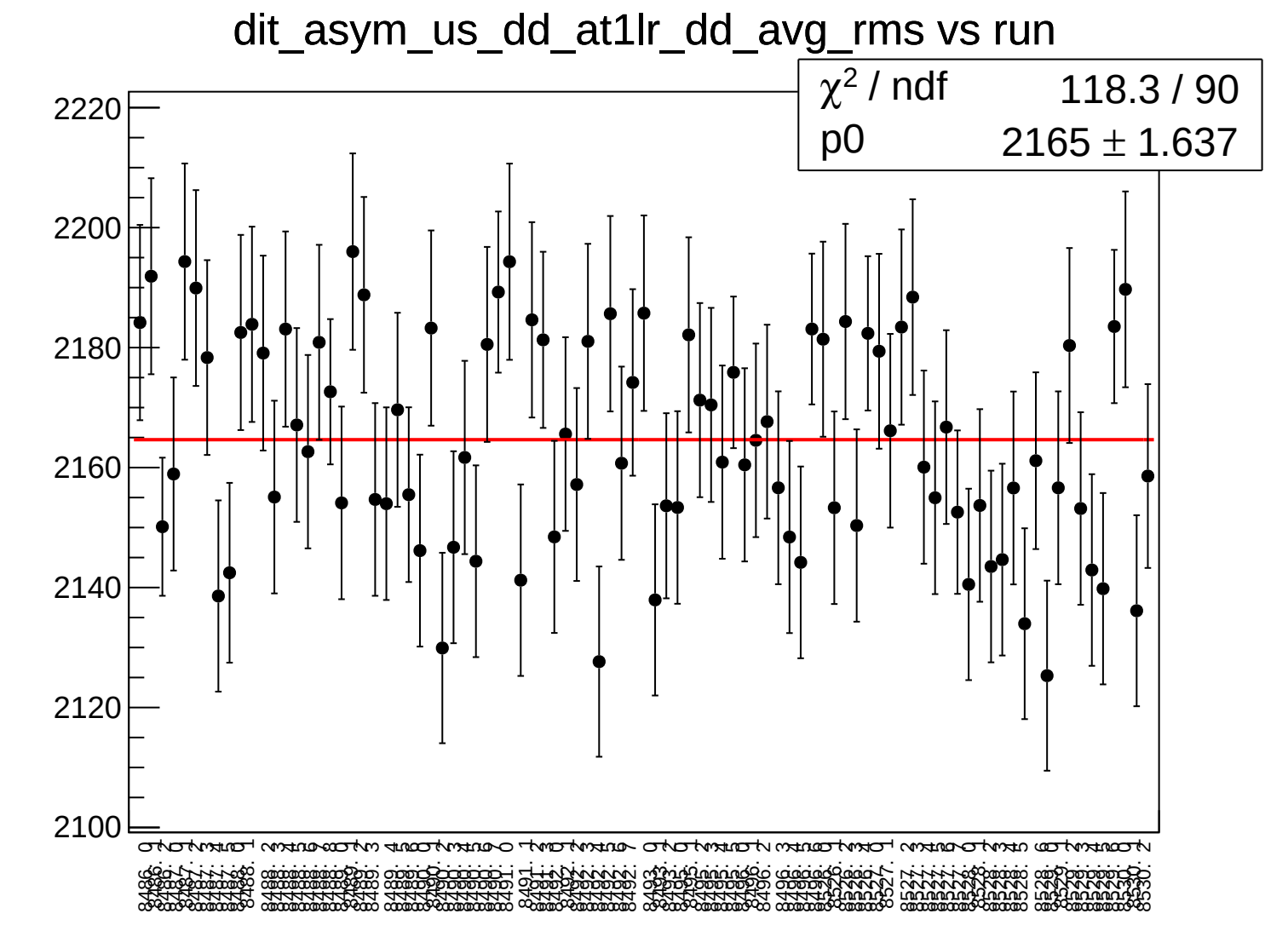

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 98.27 / 90
p0 284.3 ± 1370
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 40.63
Std Dev 0
2
1
0
−1
−2

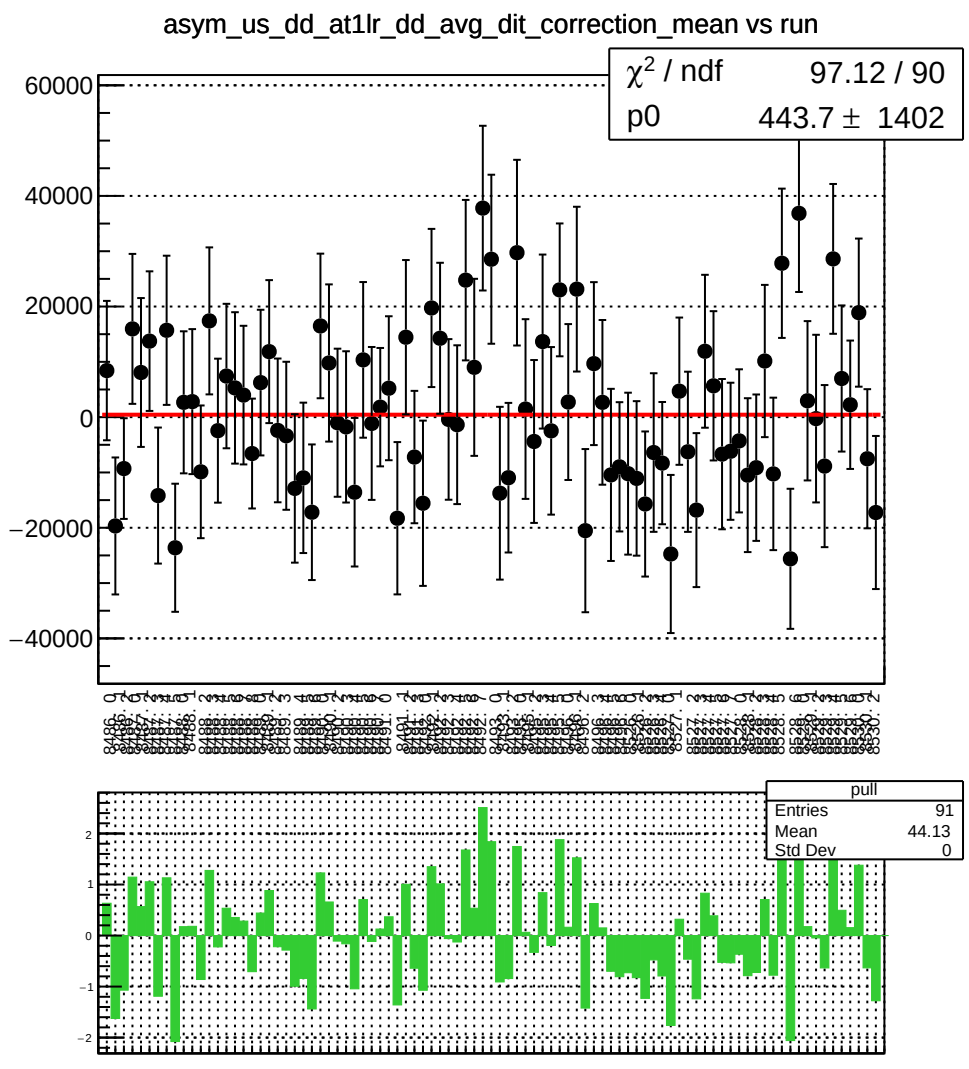

pull1D
Entries 91
Mean 0.03046
Std Dev 1.039
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

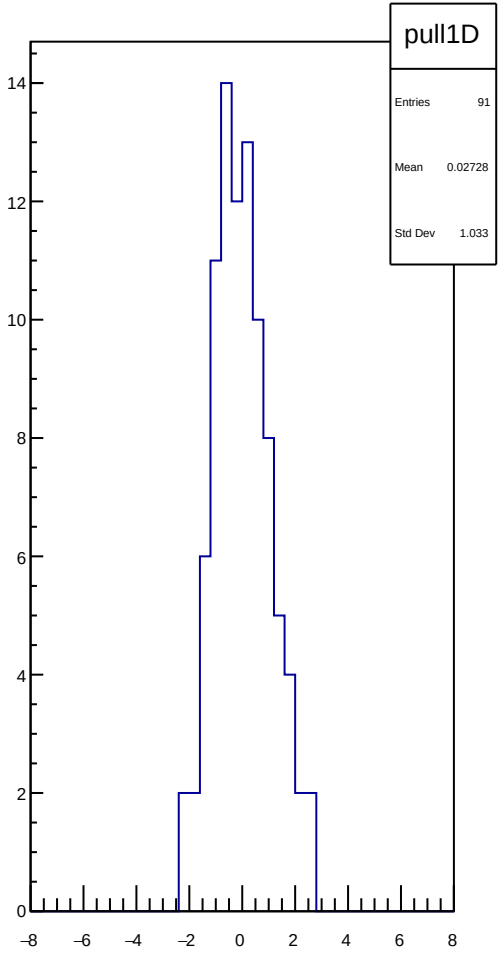

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 8025 / 90
p0 1279 ± 0.9689
1600
1500
1400
1300
1200
1100

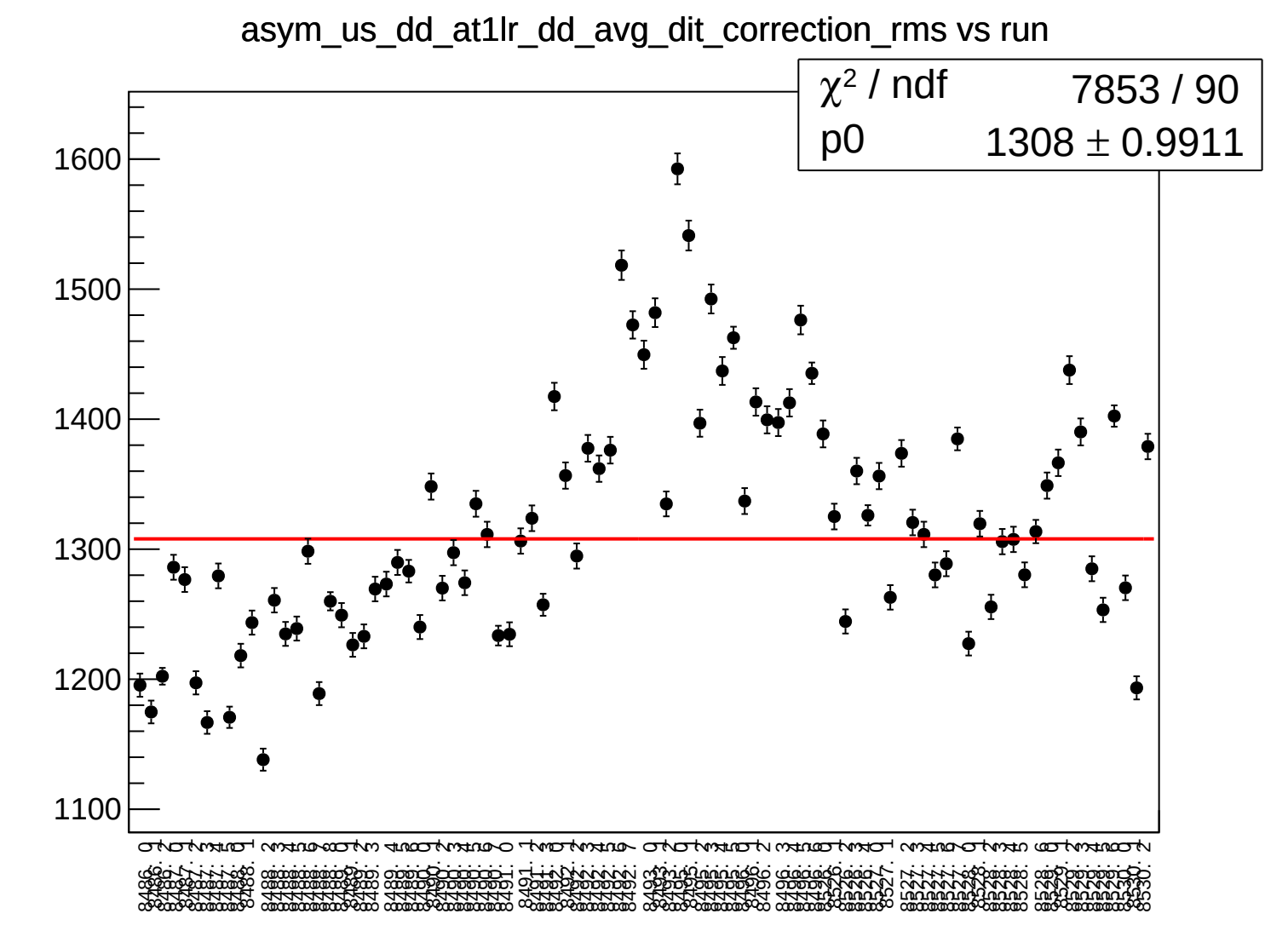

dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 88.32 / 90
p0 −3275 ± 2315
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean −837.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

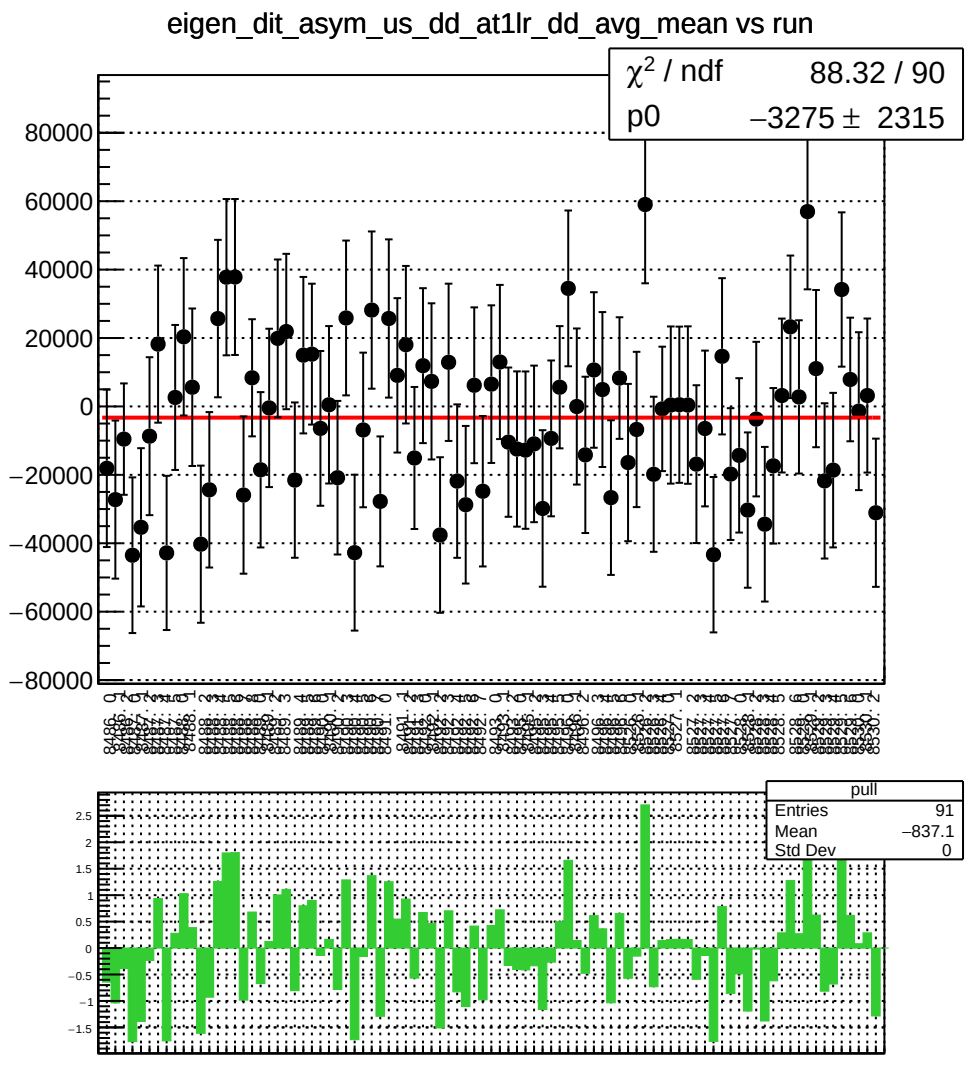

pull1D
Entries 91
Mean −0.001654
Std Dev 0.9851
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

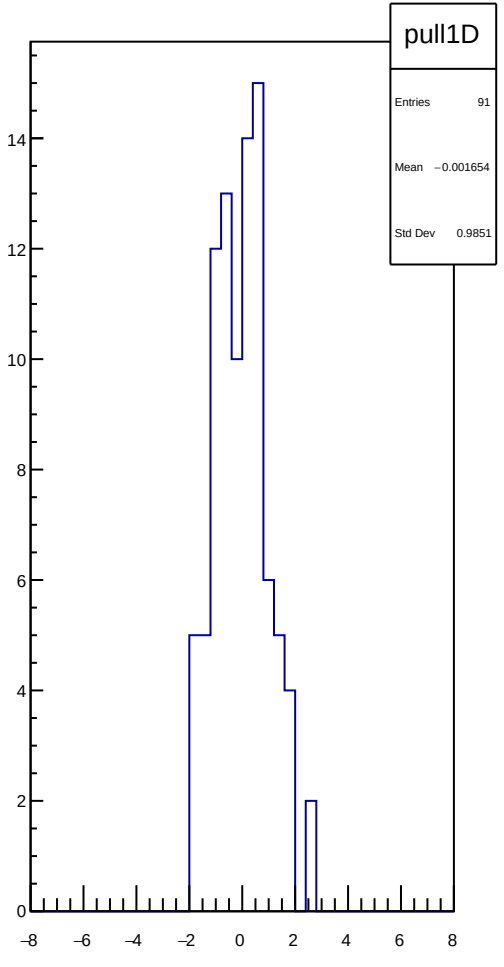

dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 118.3 / 90
p0 2165 ± 1.637
2220
2200
2180
2160
2140
2120
2100

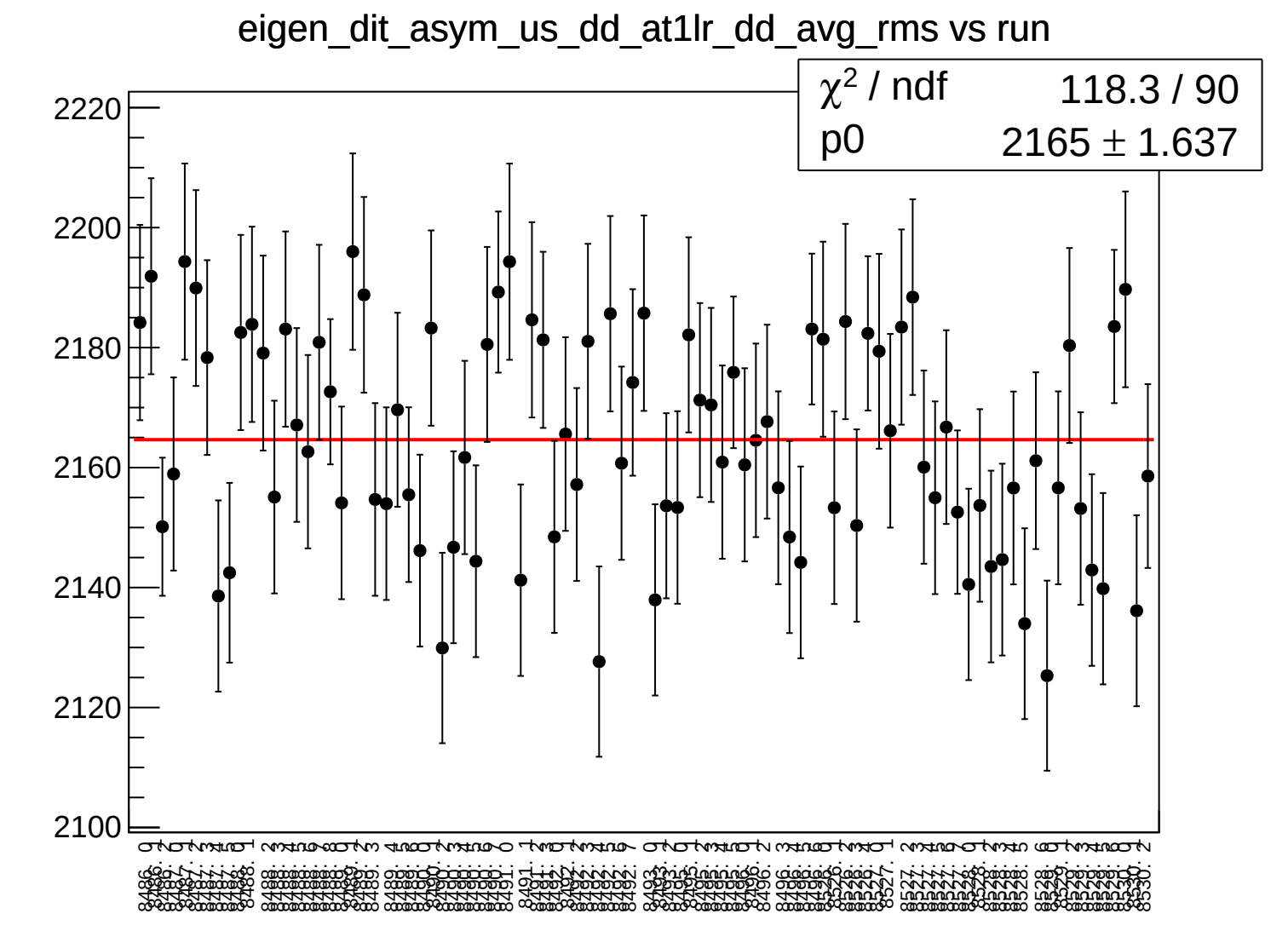

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 97.12 / 90
p0 443.7 ± 1402
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 44.13
Std Dev 0
2
1
0
−1
−2

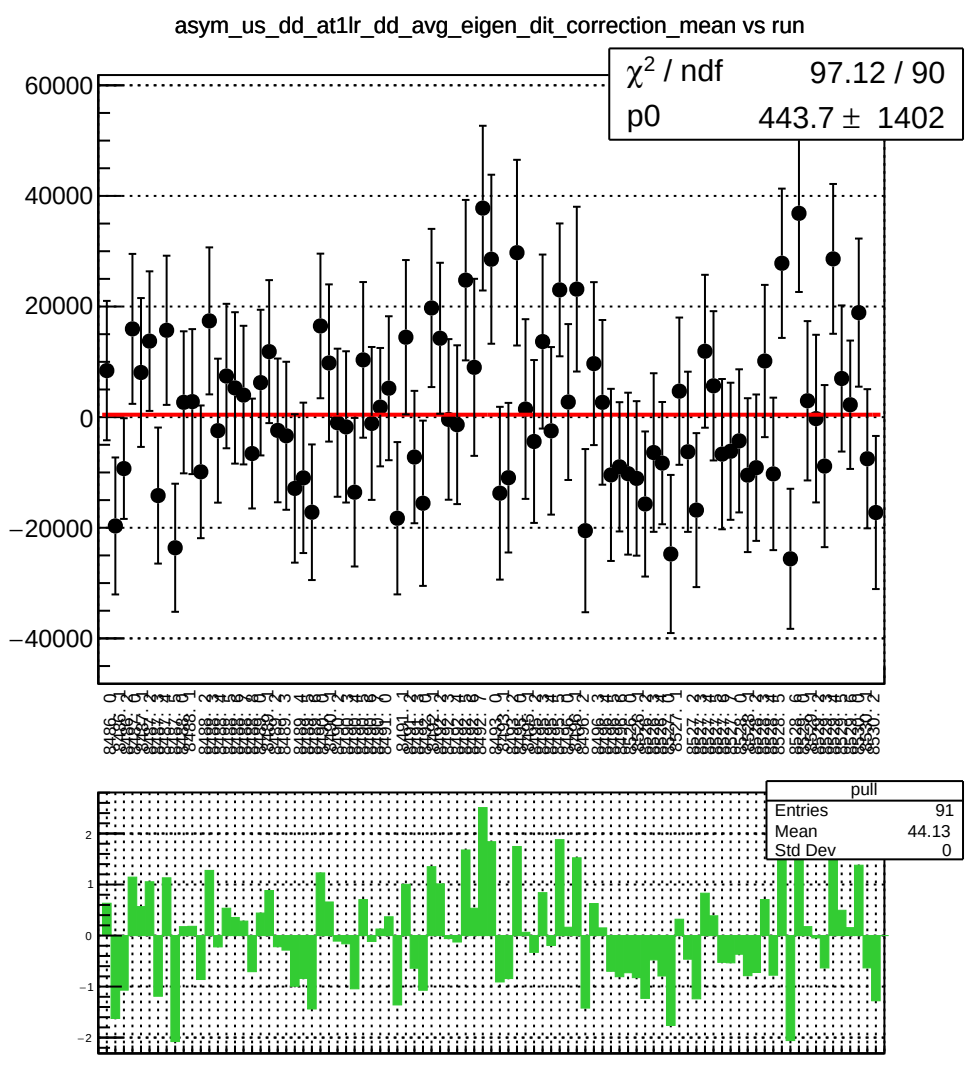

pull1D
Entries 91
Mean 0.02728
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

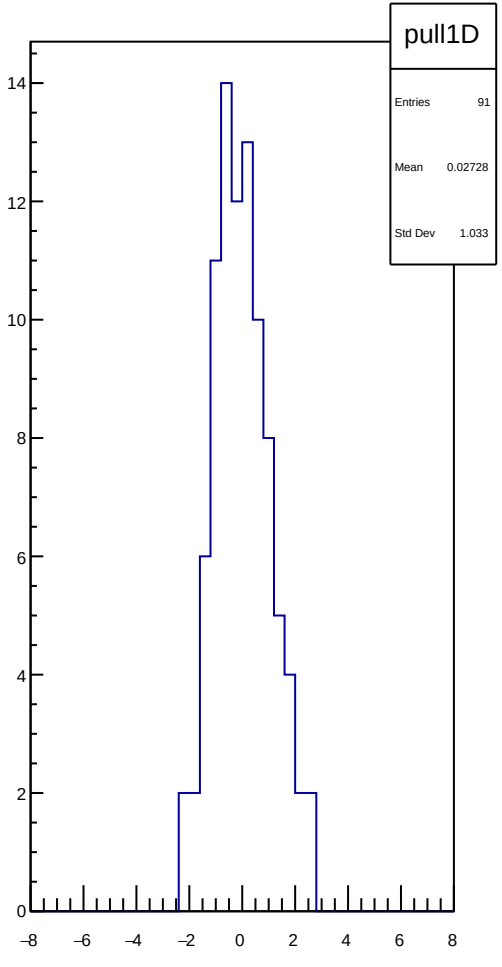

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 7853 / 90
p0 1308 ± 0.9911
1600
1500
1400
1300
1200
1100

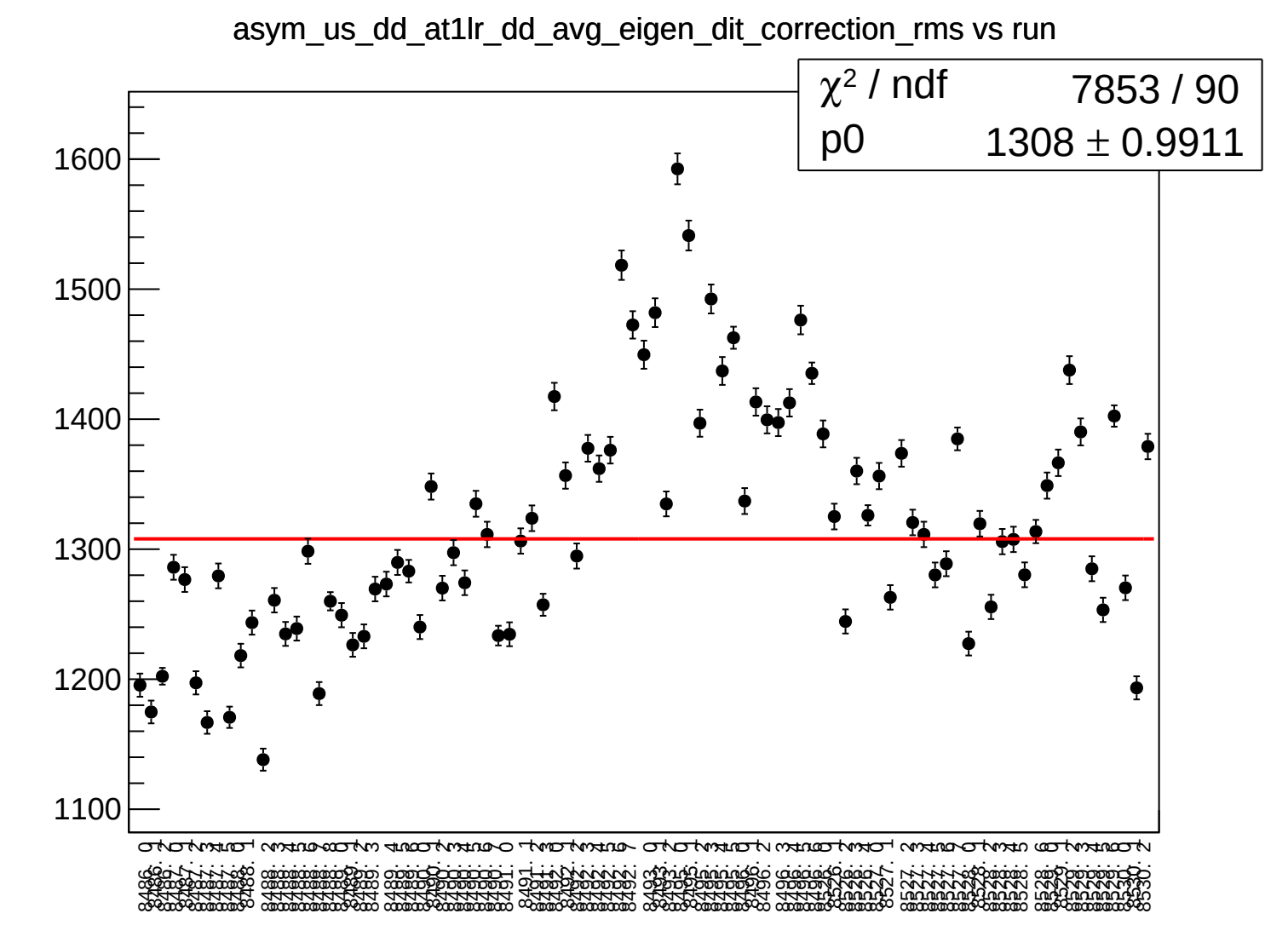

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 88.32 / 90
p0 −3275 ± 2315
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean −837.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

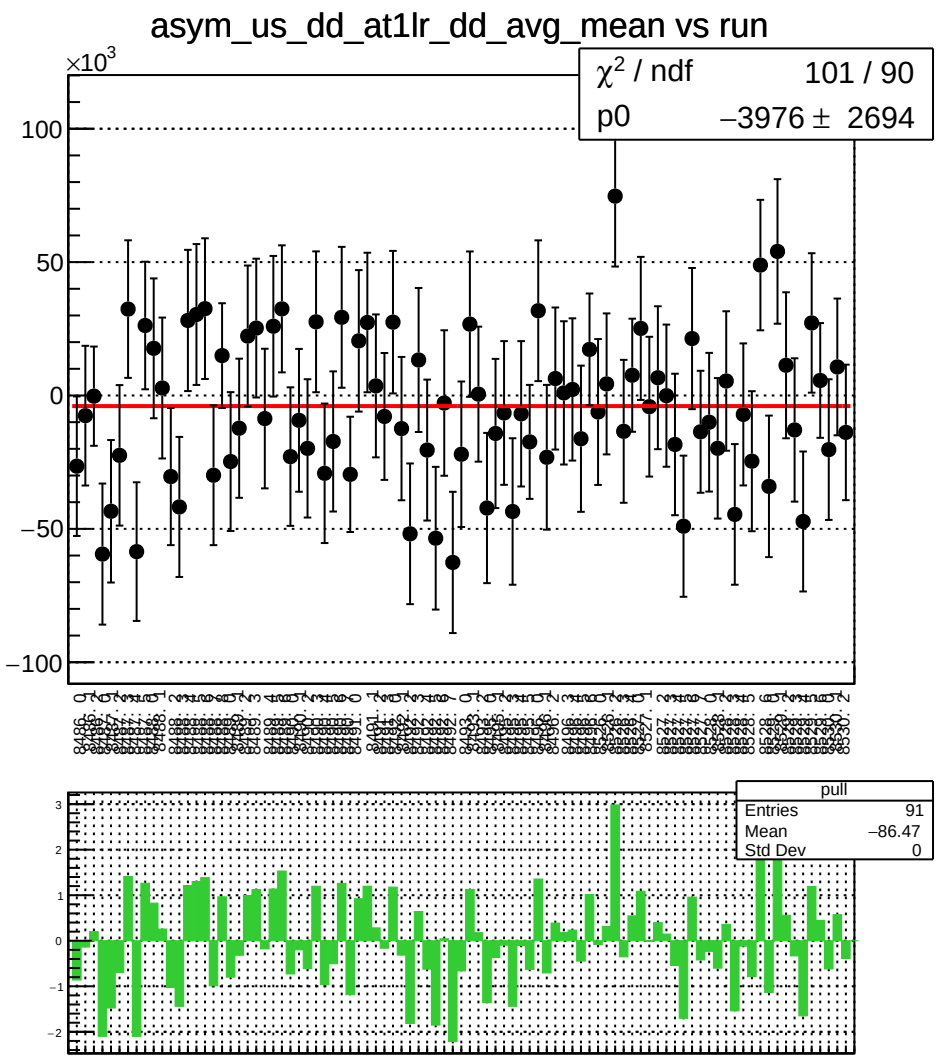

pull1D
Entries 91
Mean −0.001654
Std Dev 0.9851
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

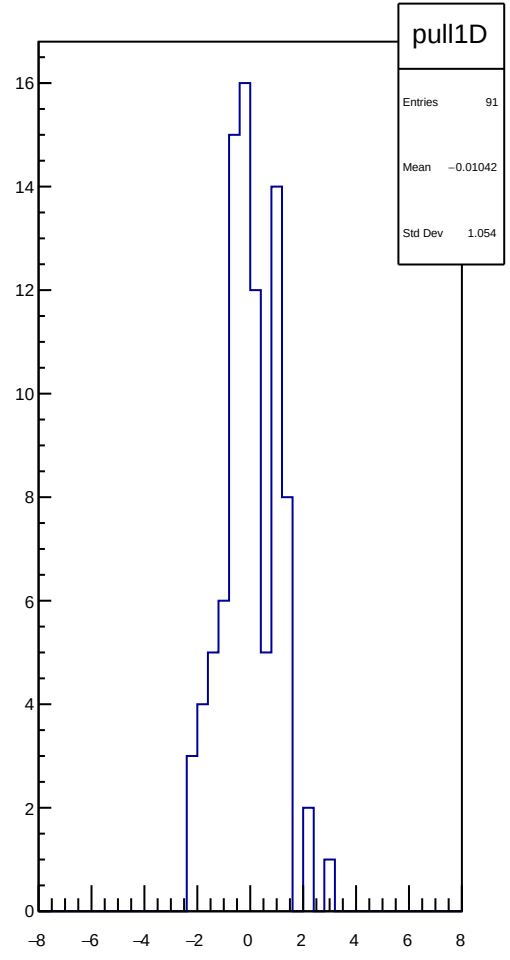

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 118.3 / 90
p0 2165 ± 1.637
2220
2200
2180
2160
2140
2120
2100

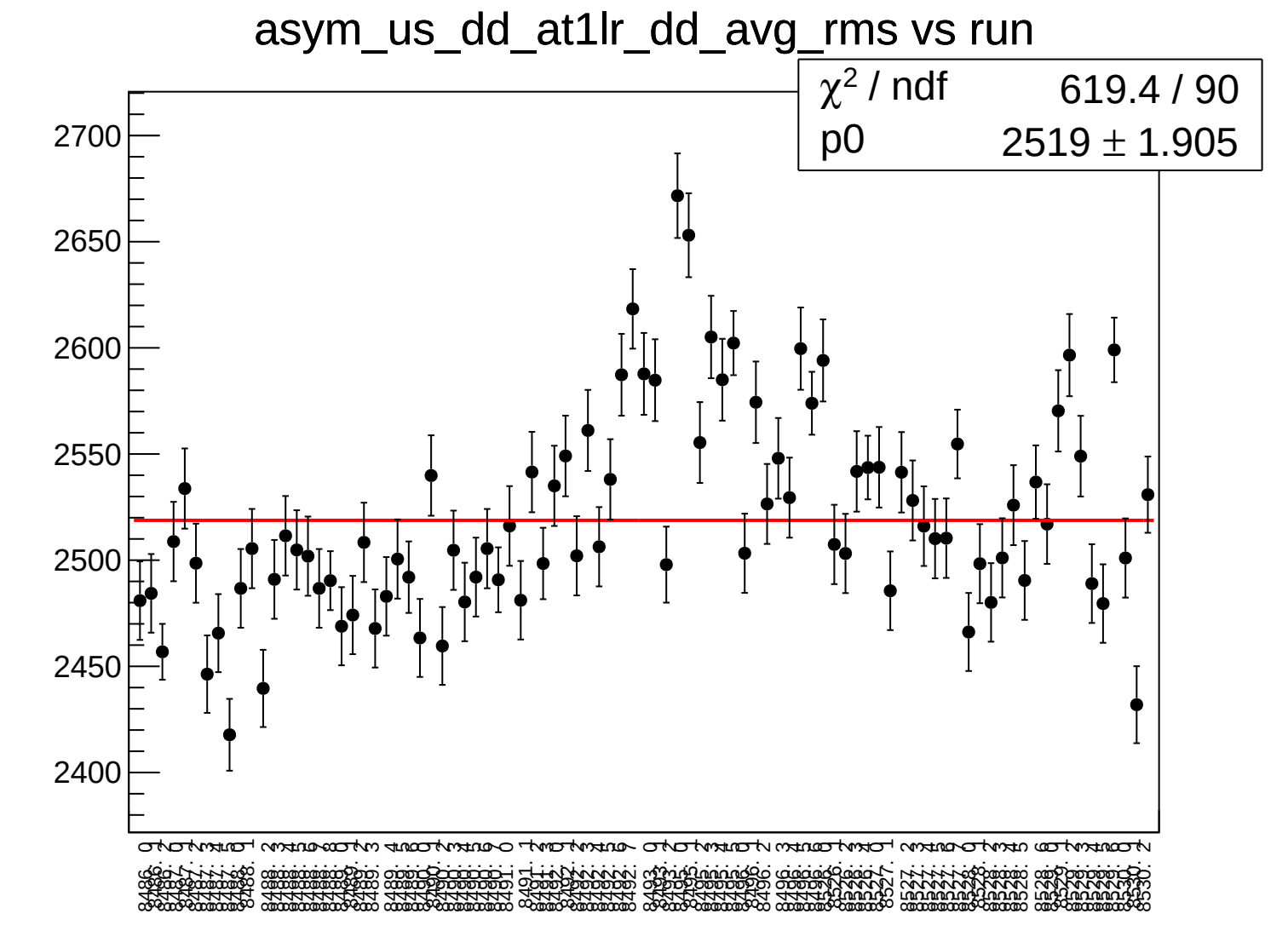

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 97.12 / 90
p0 443.7 ± 1402
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 44.13
Std Dev 0
2
1
0
−1
−2

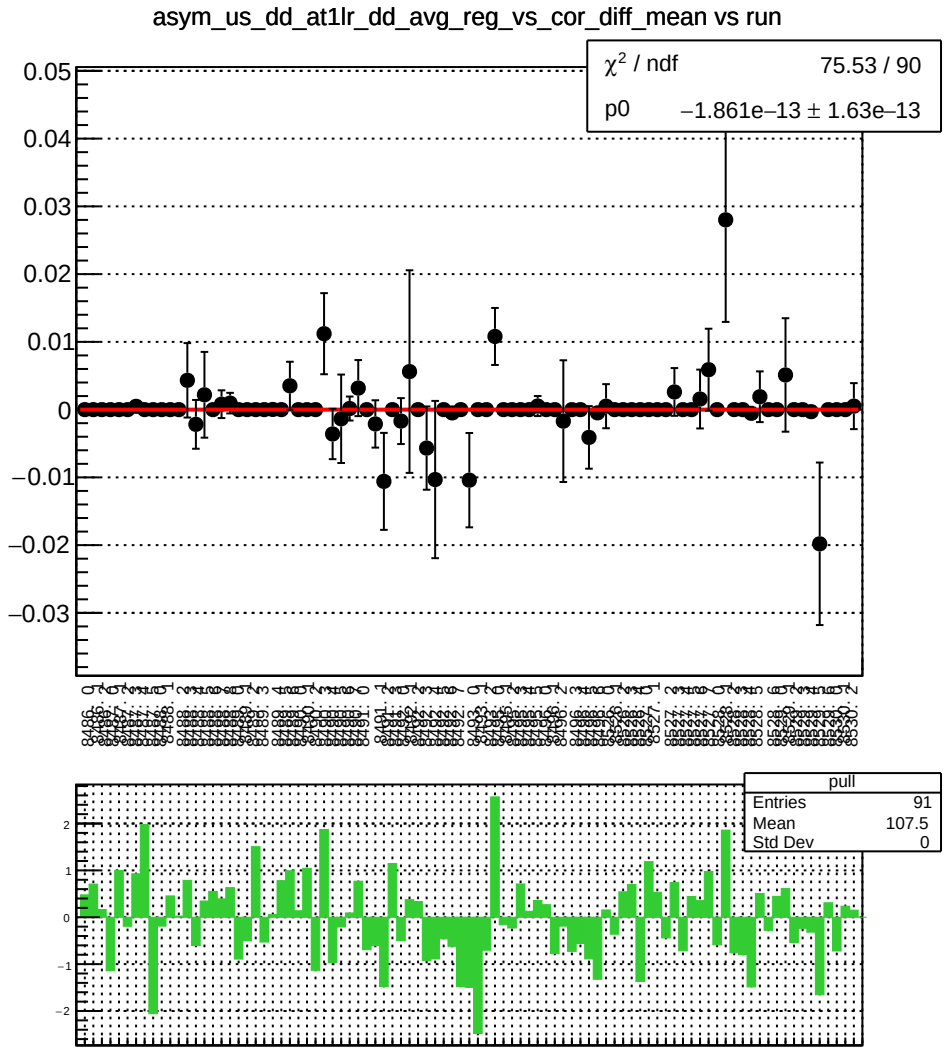

pull1D
Entries 91
Mean 0.02728
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

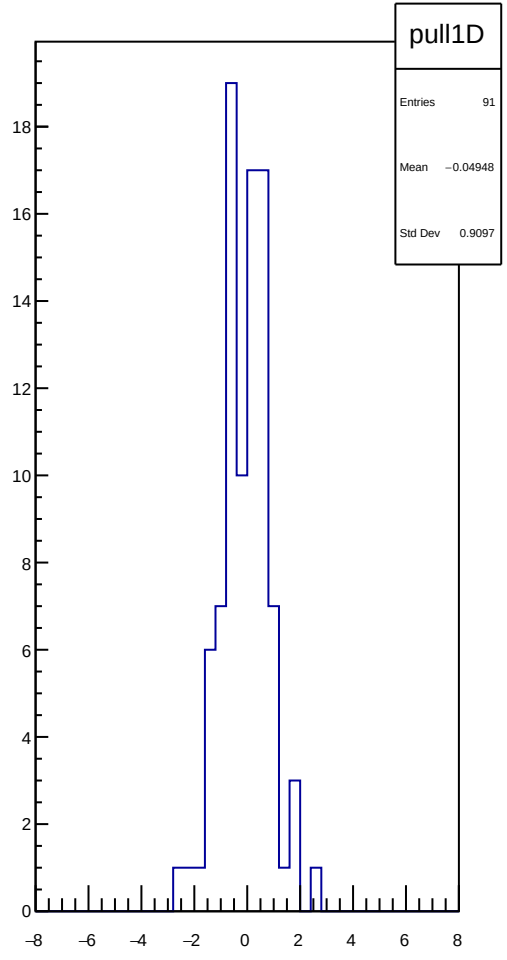

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 7853 / 90
p0 1308 ± 0.9911
1600
1500
1400
1300
1200
1100

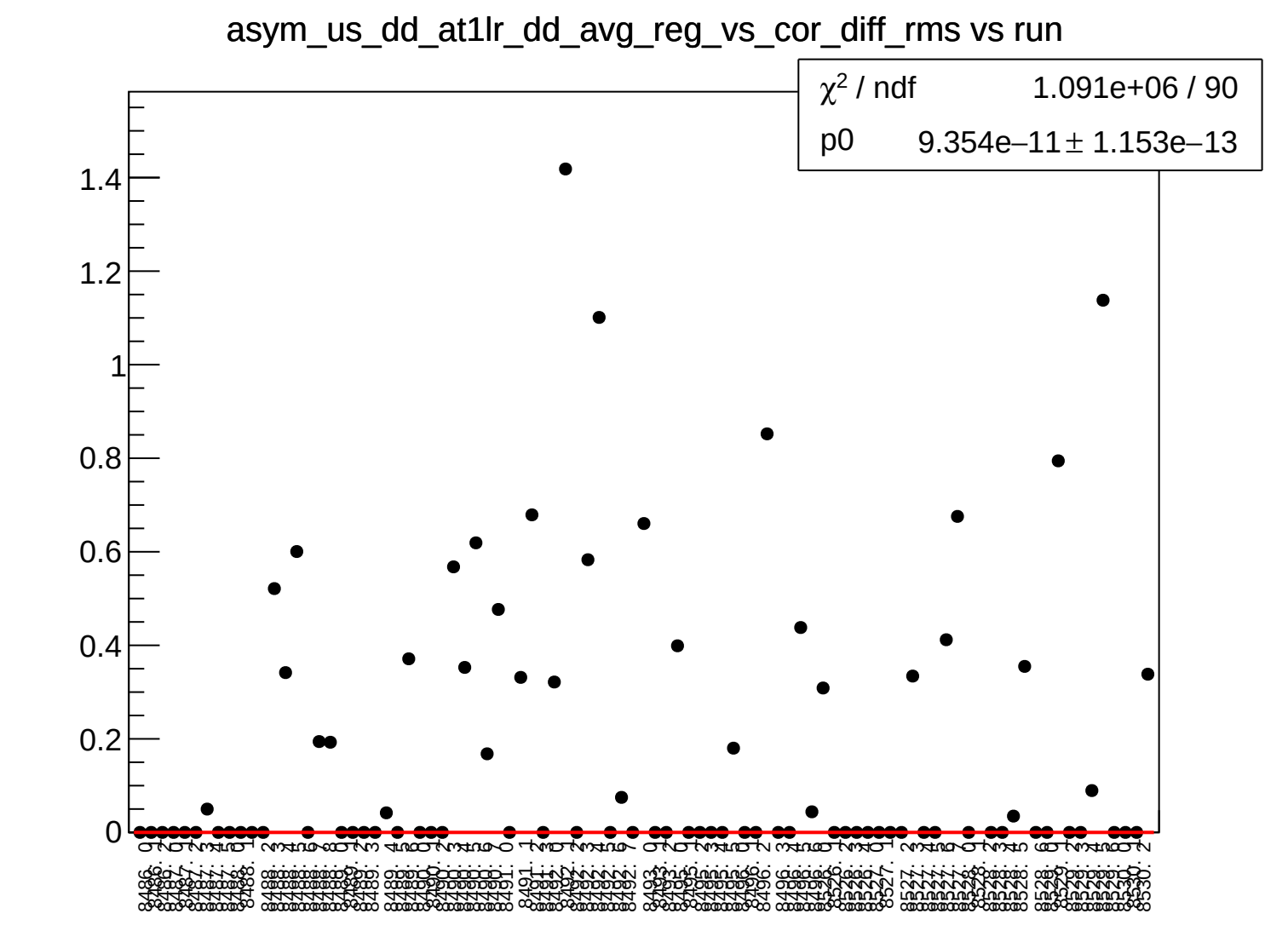

asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 101 / 90
p0 −3976 ± 2694
100
50
0
−50
−100
pull
Entries 91
Mean −86.47
Std Dev 0
3
2
1
0
−1
−2

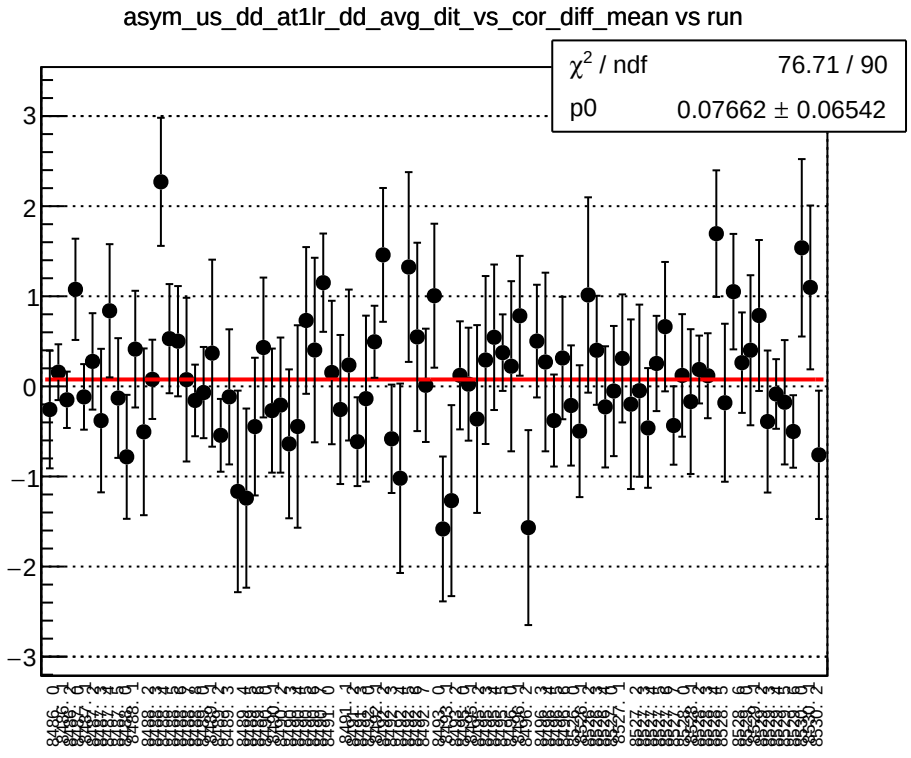

pull1D
Entries 91
Mean −0.01042
Std Dev 1.054
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

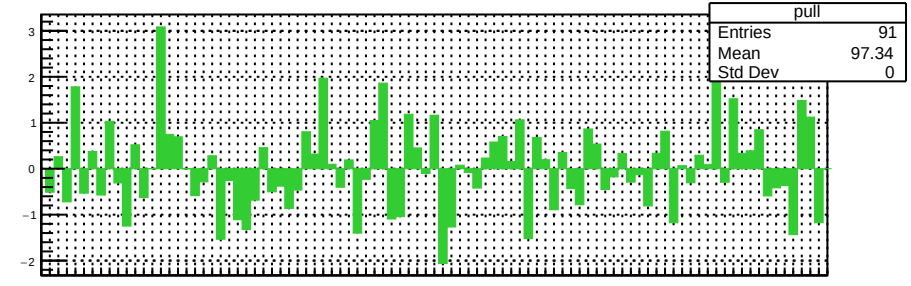

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 619.4 / 90
p0 2519 ± 1.905
2700
2650
2600
2550
2500
2450
2400

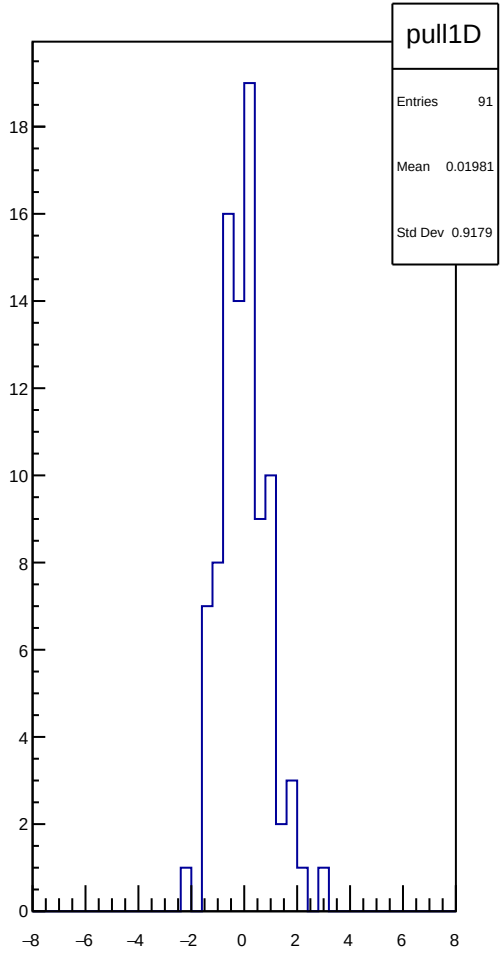

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 75.53 / 90
p0 −1.861e−13 ± 1.63e−13
pull
Entries 91
Mean 107.5
Std Dev 0

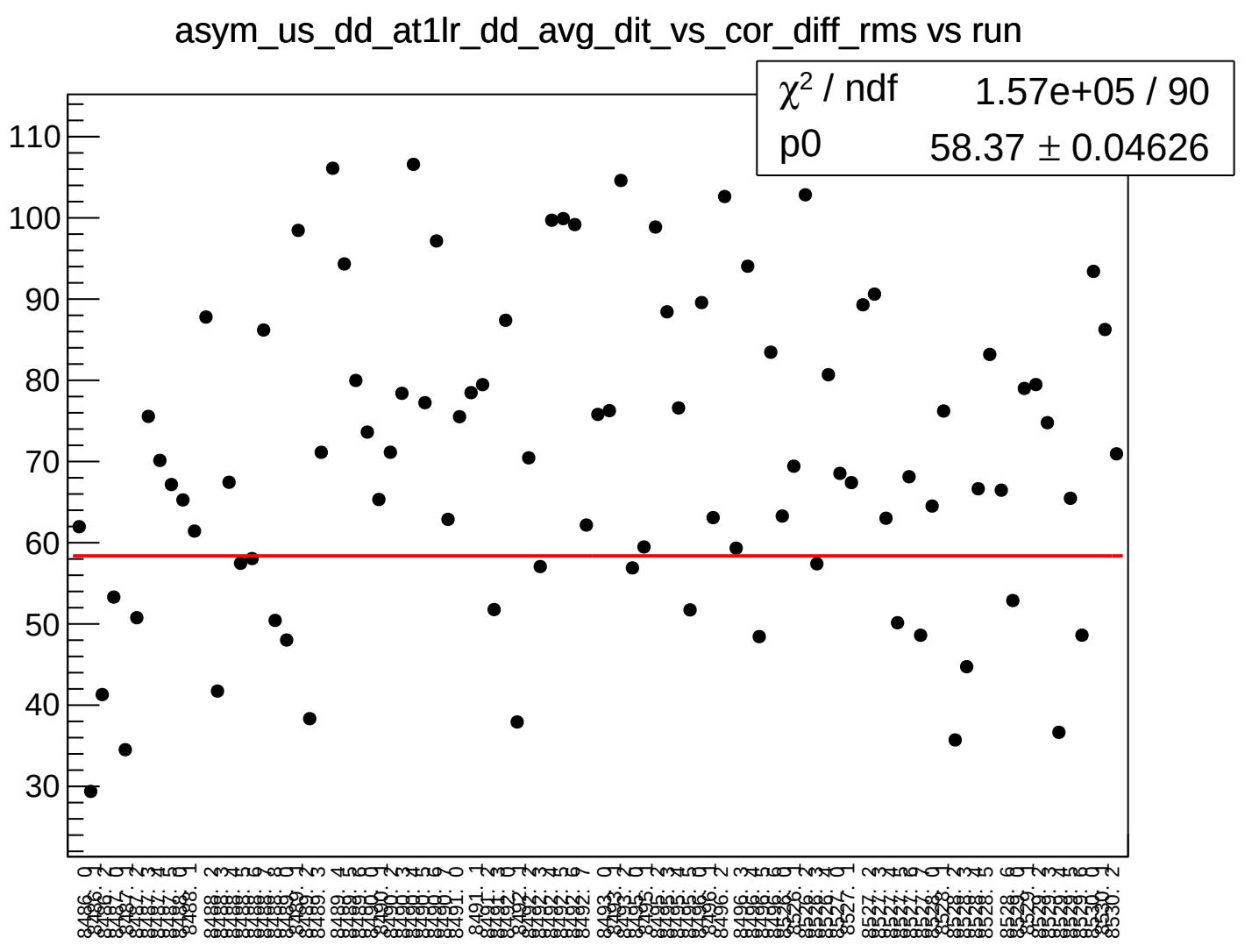

pull1D
Entries 91
Mean −0.04948
Std Dev 0.9097

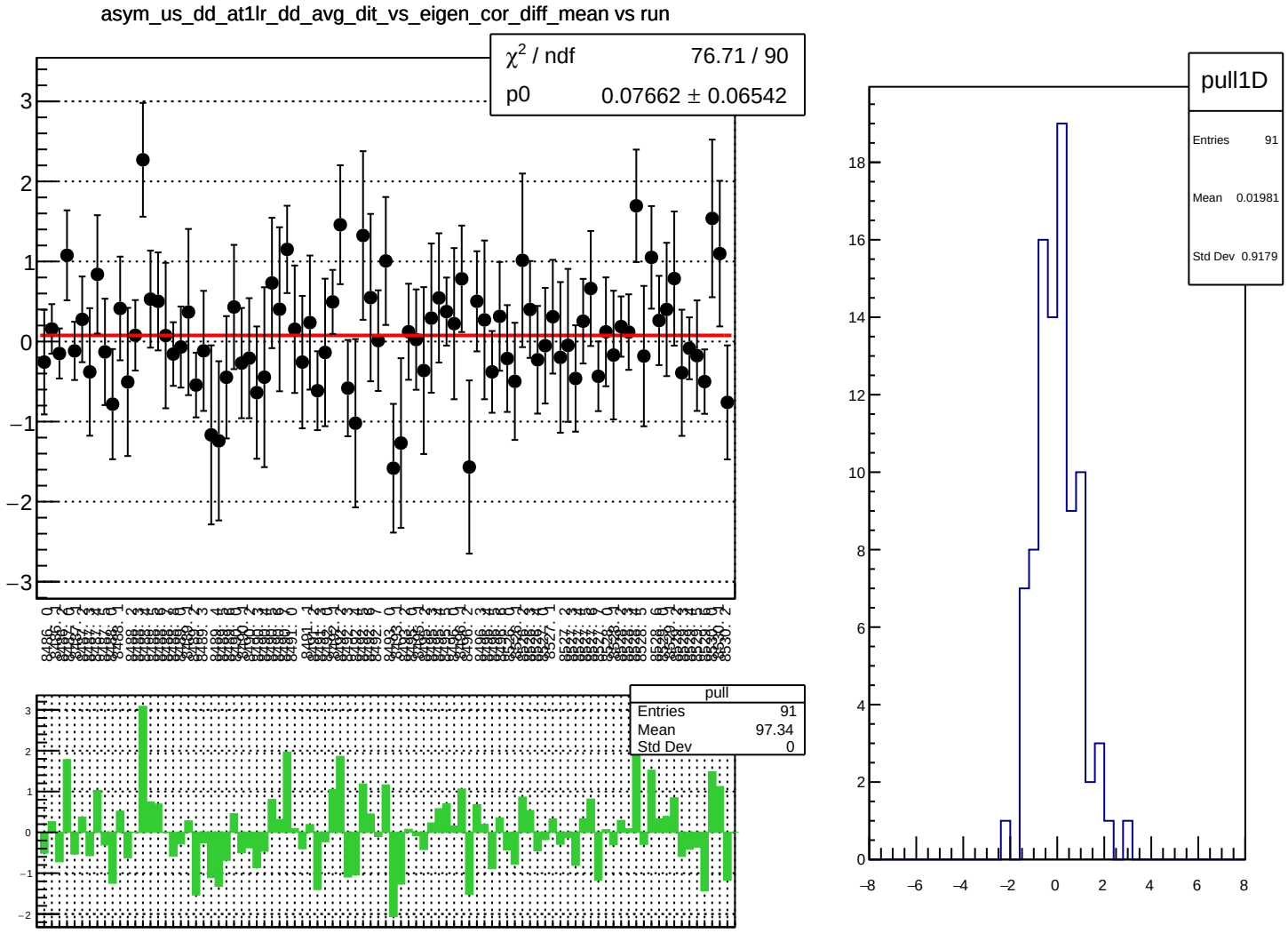

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.091e+06 / 90
p0 9.354e−11 ± 1.153e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

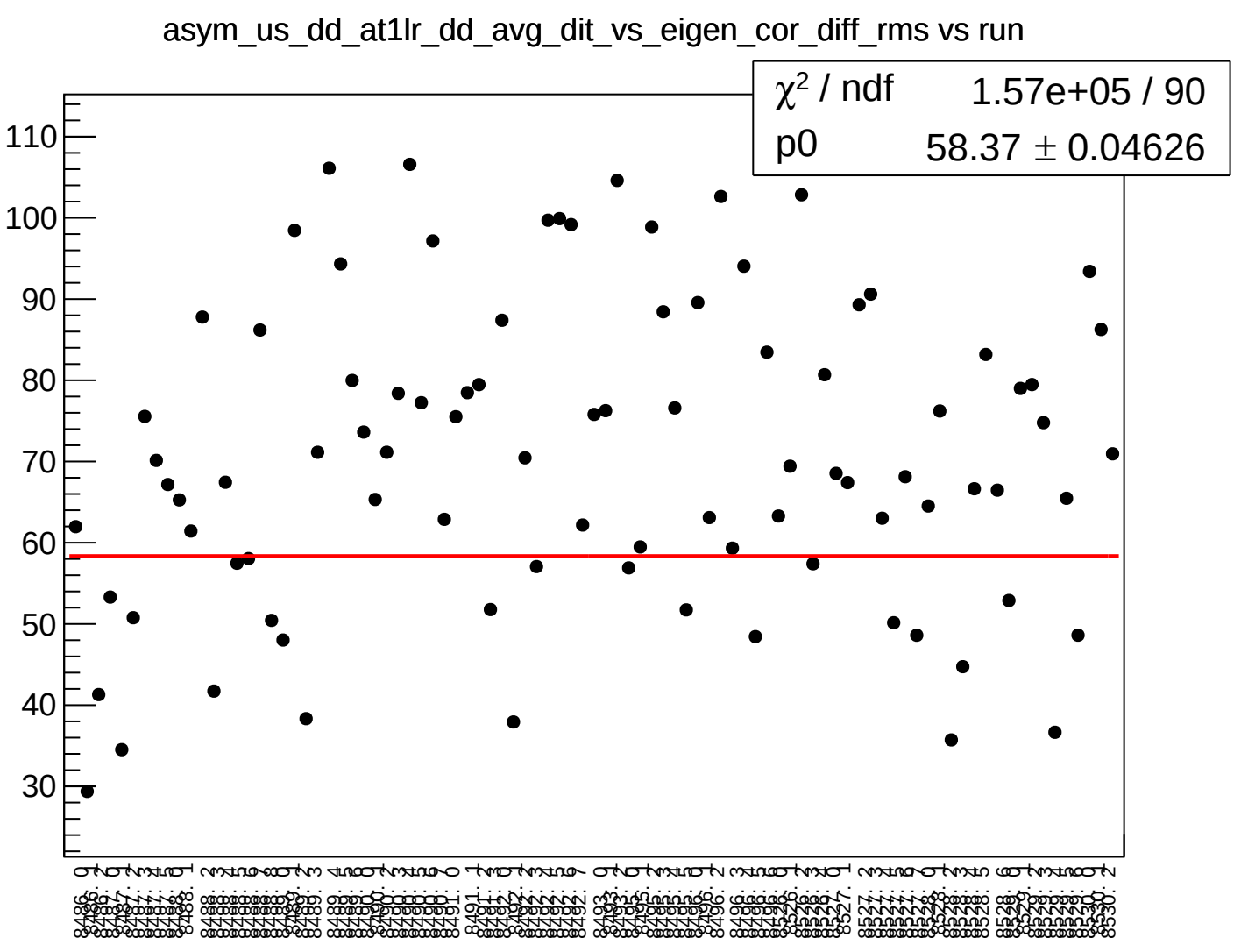

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 76.71 / 90
p0 0.07662 ± 0.06542

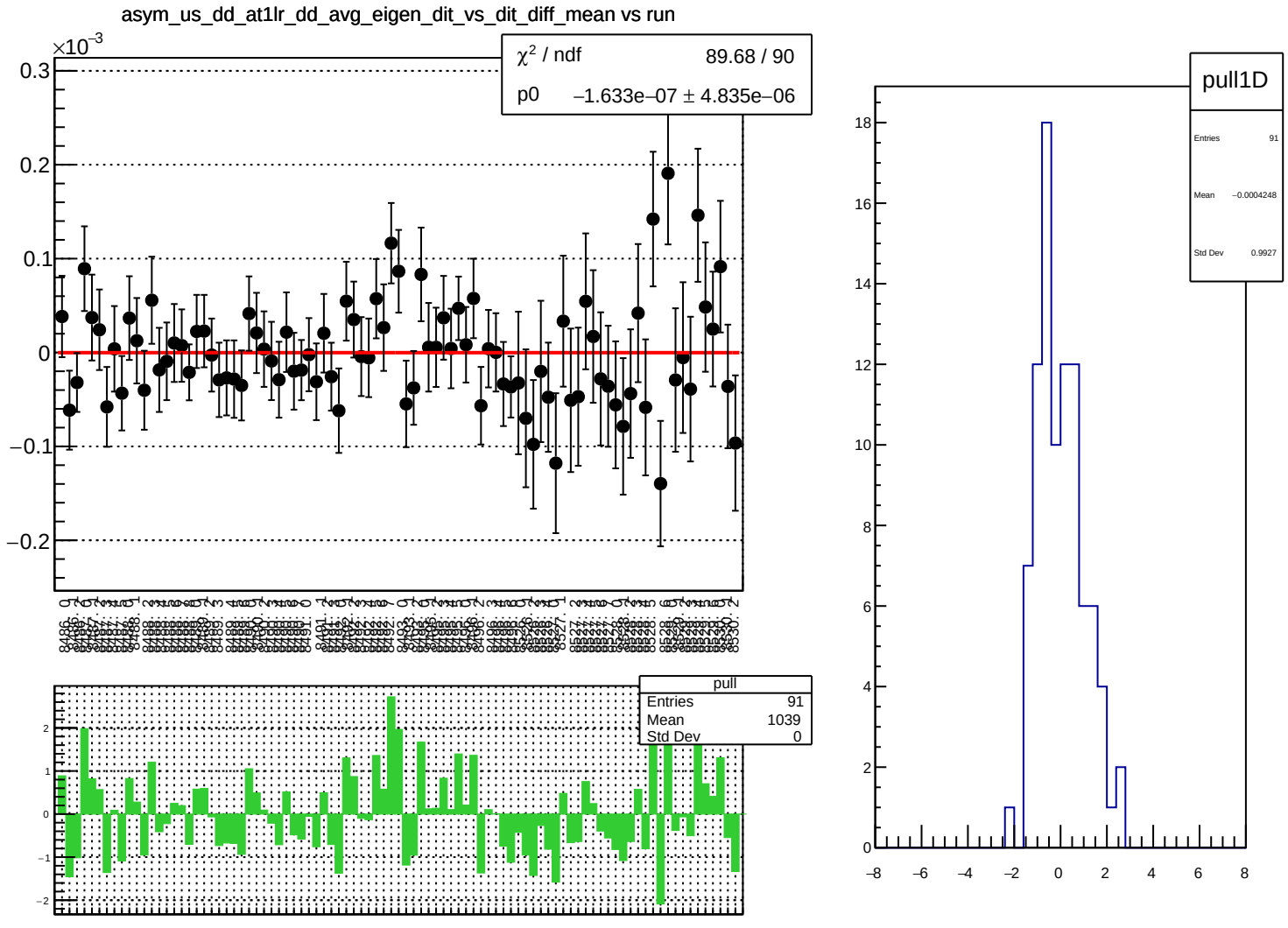

pull
Entries 91
Mean 97.34
Std Dev 0

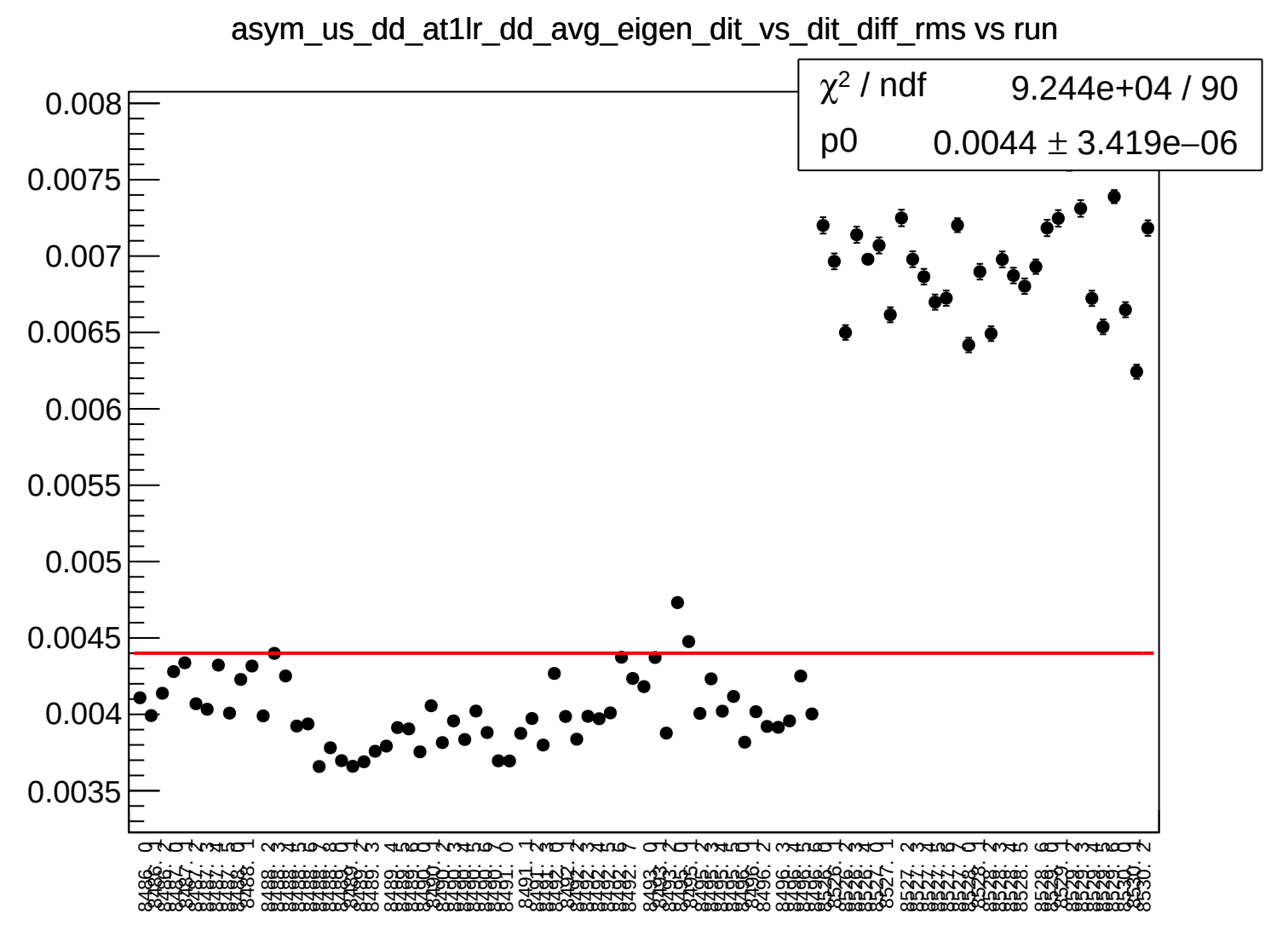

pull1D
Entries 91
Mean 0.01981
Std Dev 0.9179


asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.57e+05 / 90
p0 58.37 ± 0.04626
110
100
90
80
70
60
50
40
30

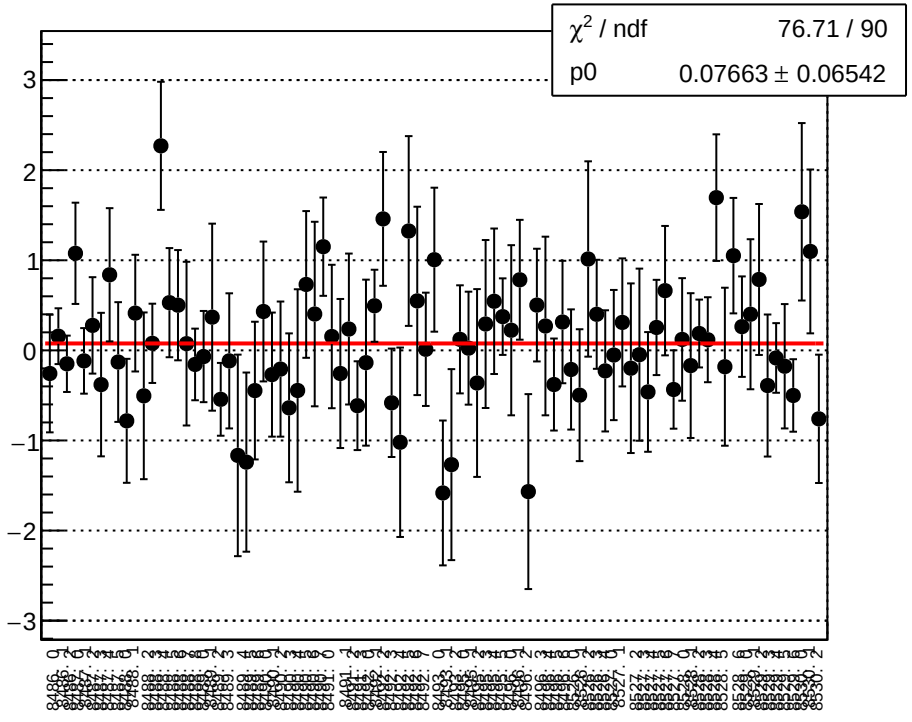

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.71 / 90
p0 0.07662 ± 0.06542
pull
Entries 91
Mean 97.34
Std Dev 0
pull1D
Entries 91
Mean 0.01981
Std Dev 0.9179

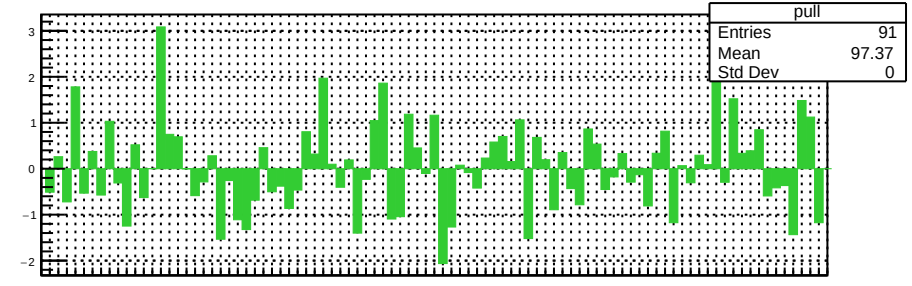

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.57e+05 / 90
p0 58.37 ± 0.04626
110
100
90
80
70
60
50
40
30

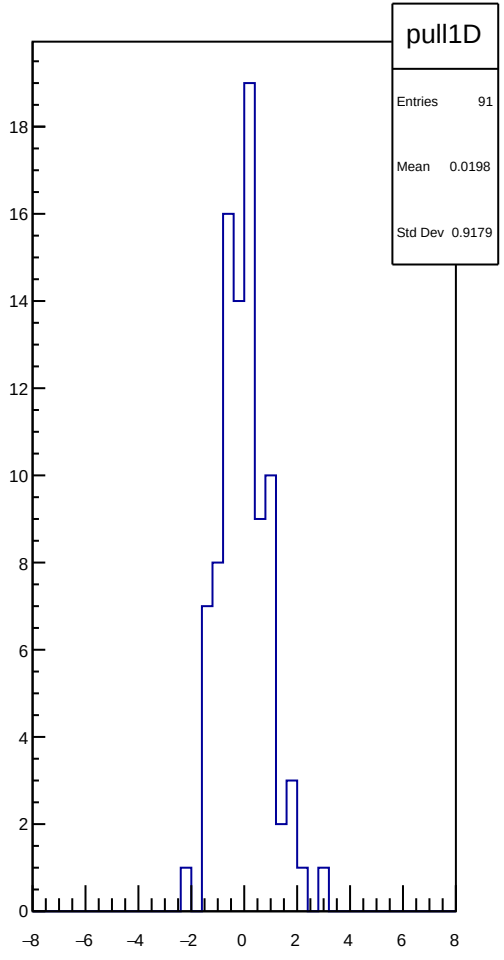

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.68 / 90
p0 −1.633e−07 ± 4.835e−06
pull
Entries 91
Mean 1039
Std Dev 0
pull1D
Entries 91
Mean −0.0004248
Std Dev 0.9927

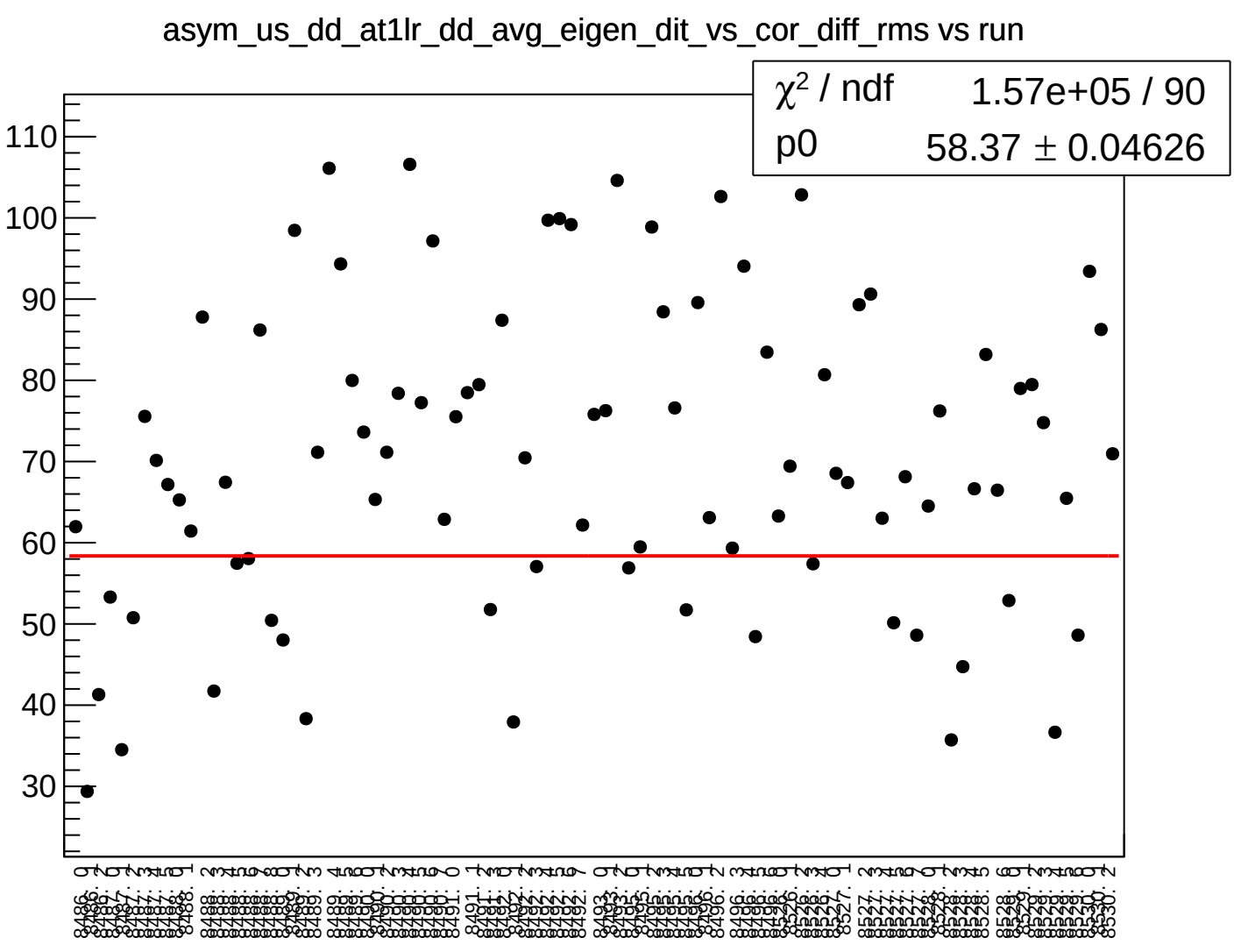

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.244e+04 / 90
p0 0.0044 ± 3.419e−06
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run

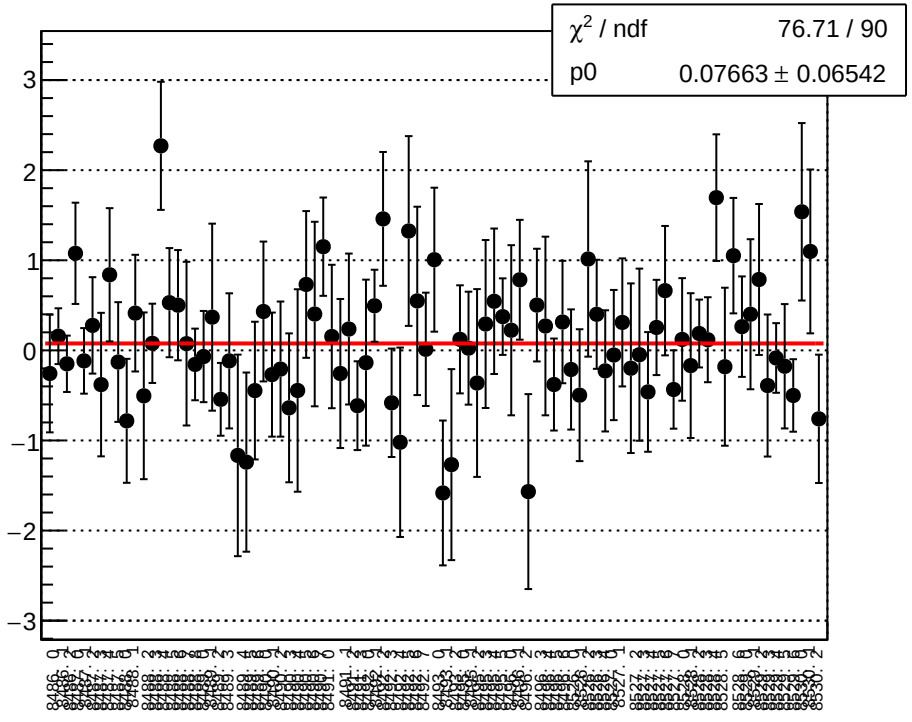


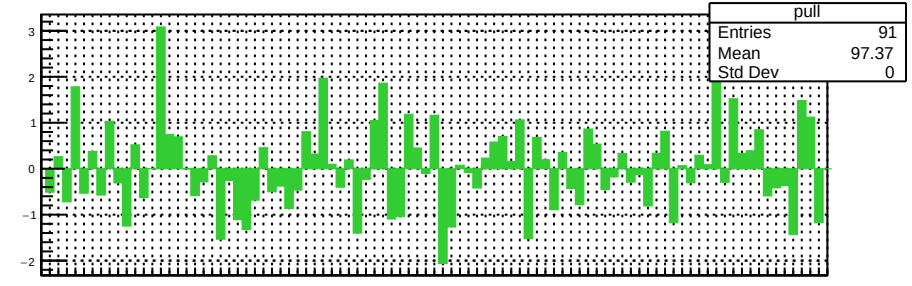


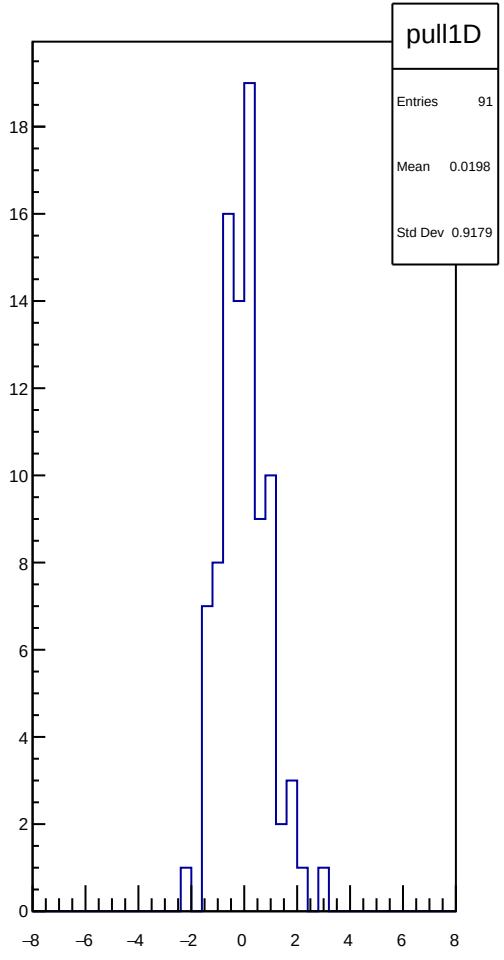


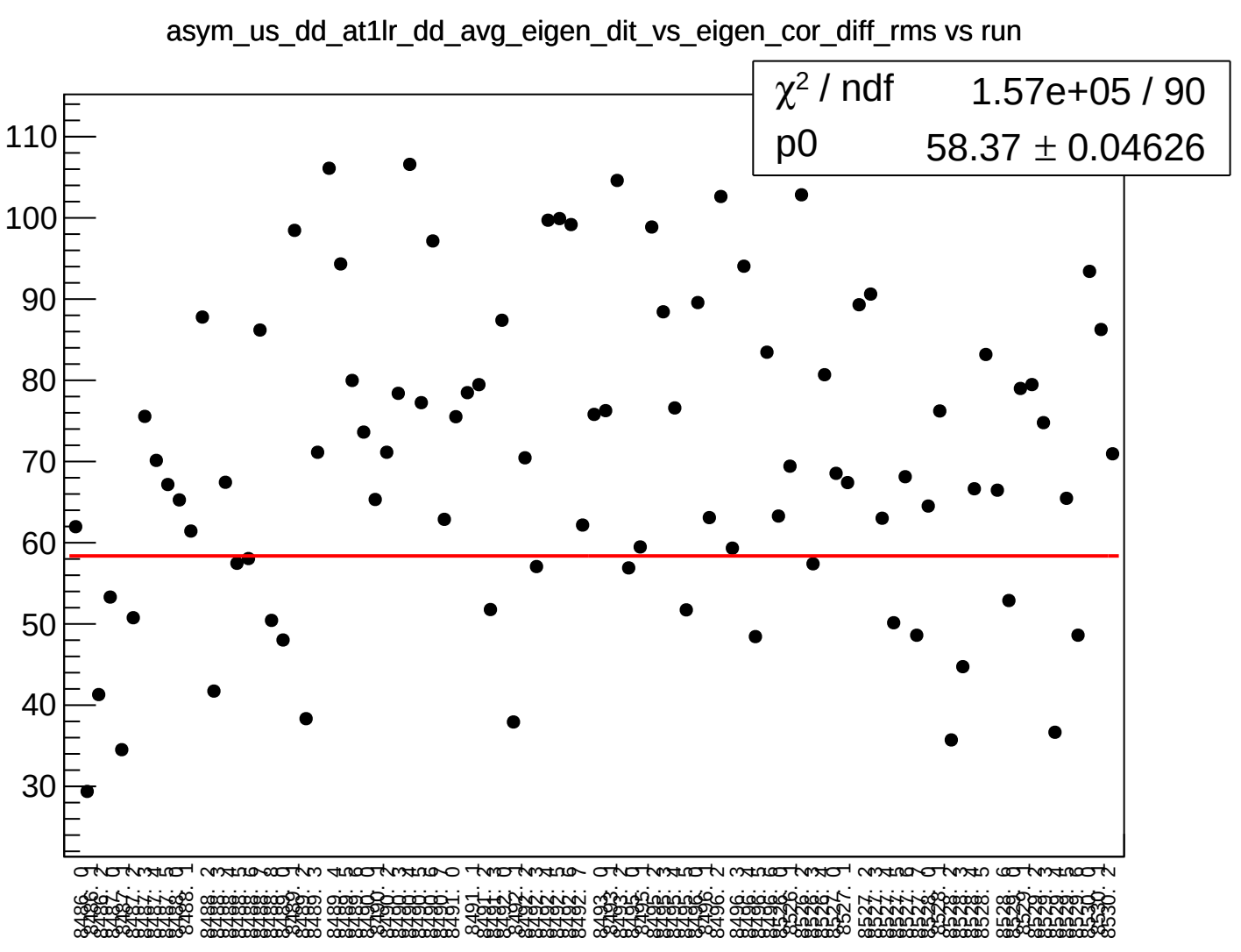

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.57e+05 / 90
p0 58.37 ± 0.04626
110
100
90
80
70
60
50
40
30

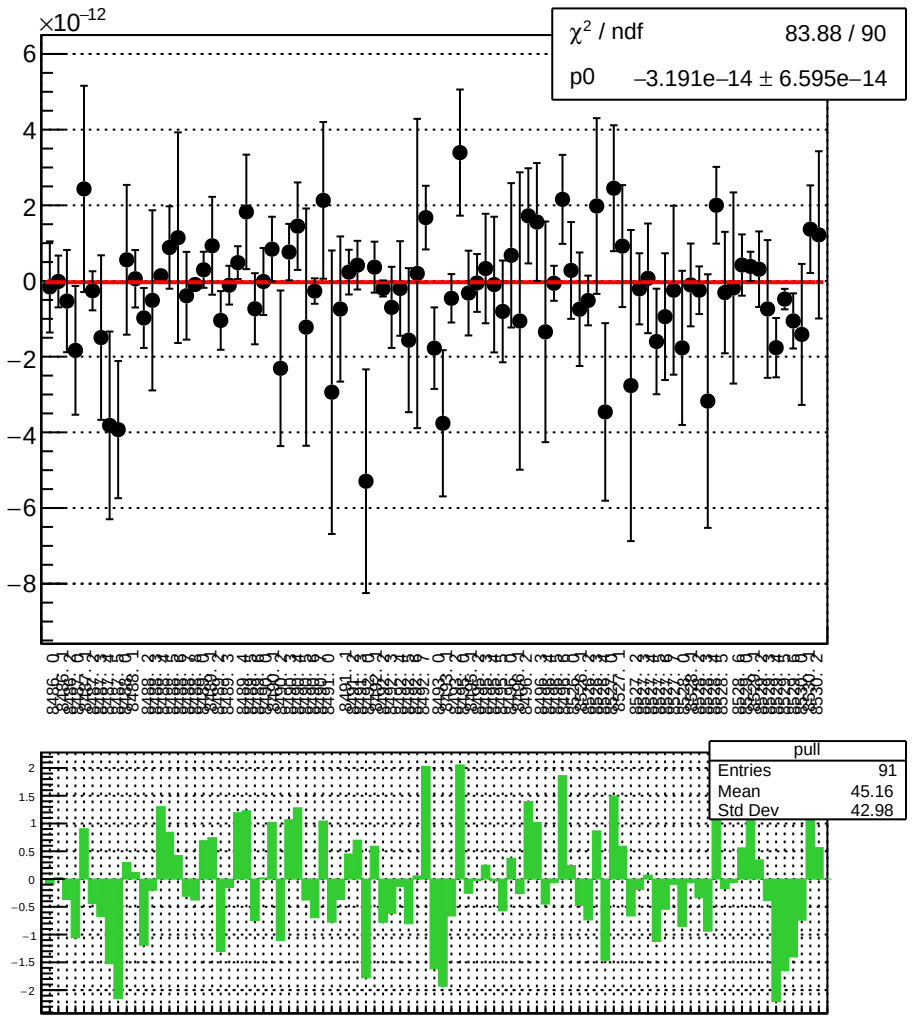
asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run

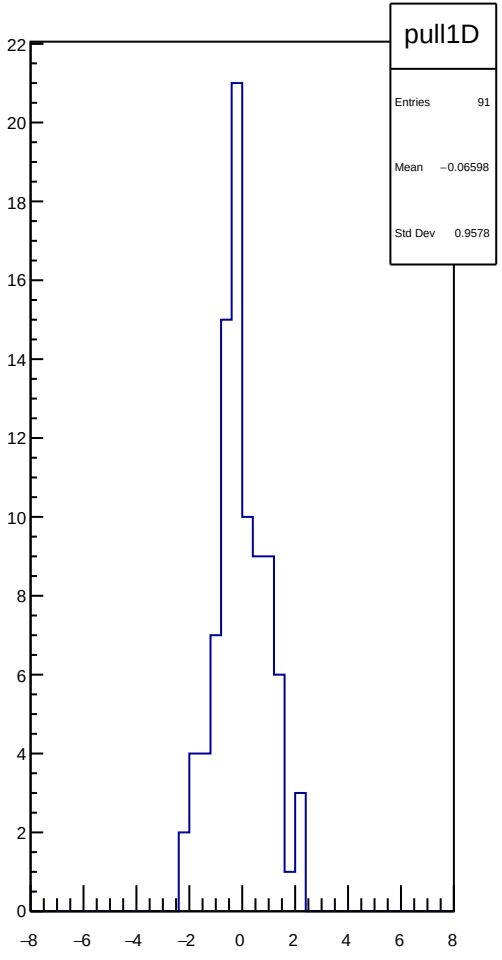


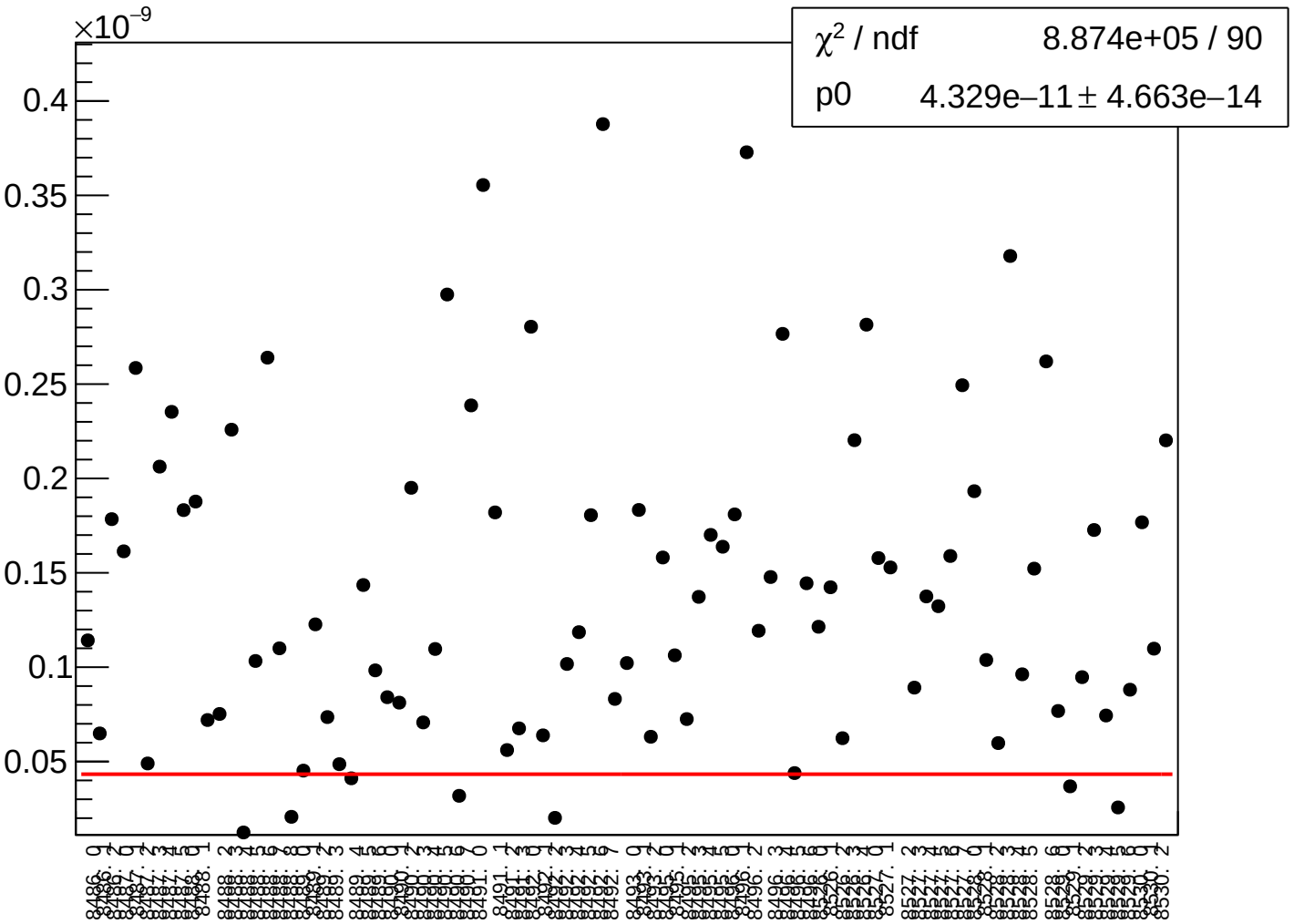


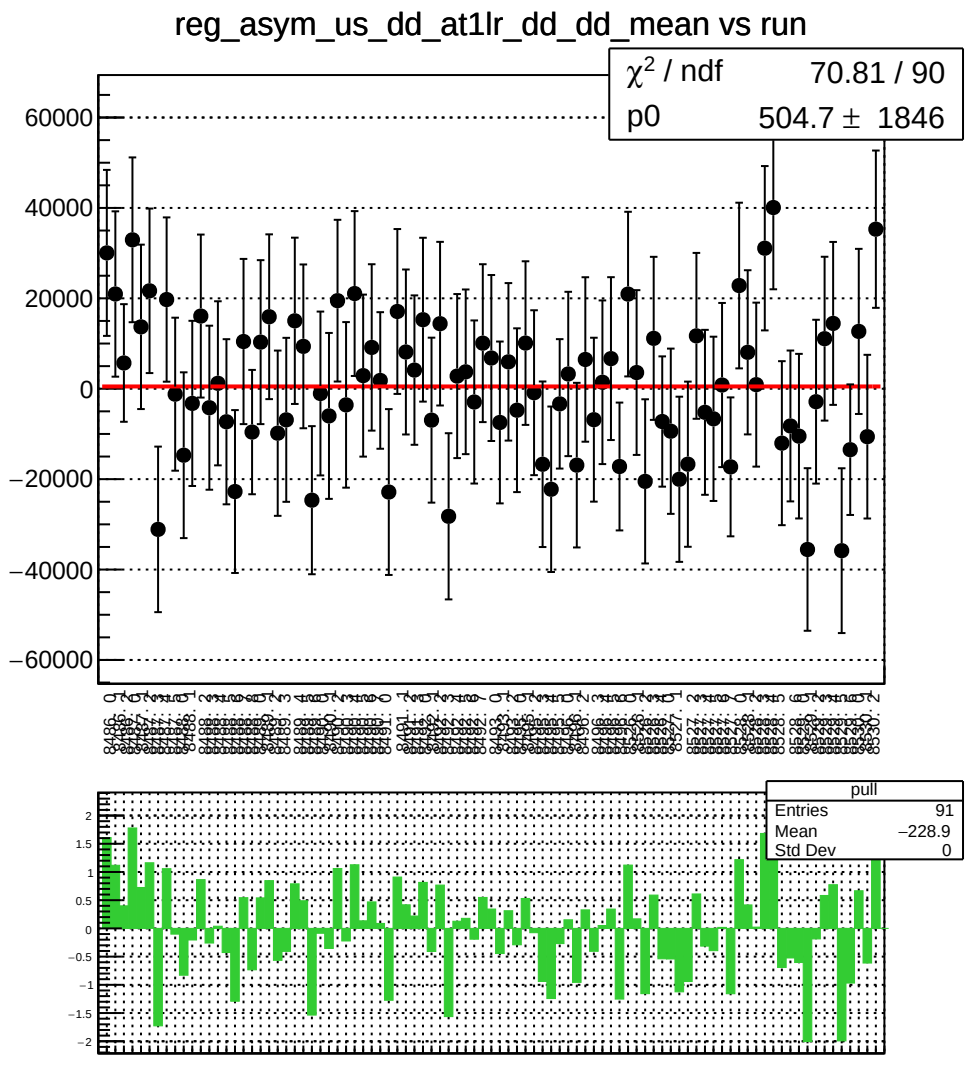


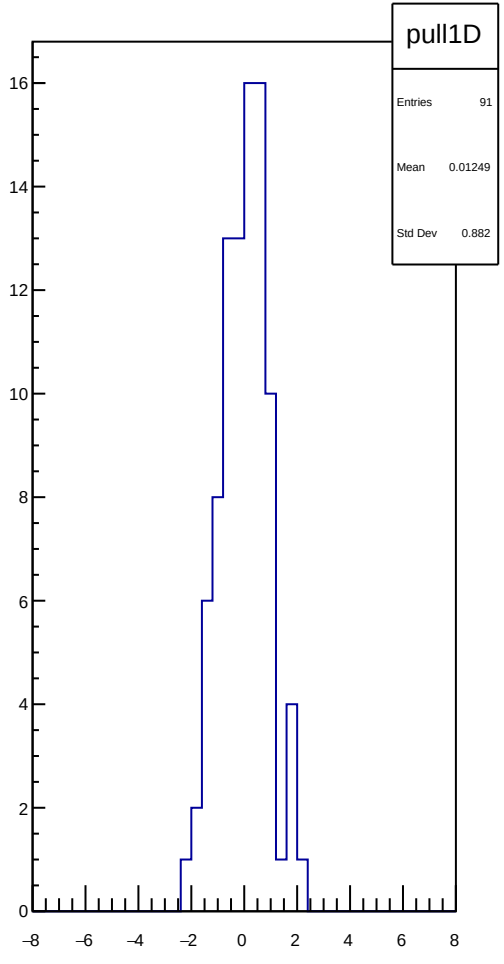

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.57e+05 / 90
p0 58.37 ± 0.04626
110
100
90
80
70
60
50
40
30

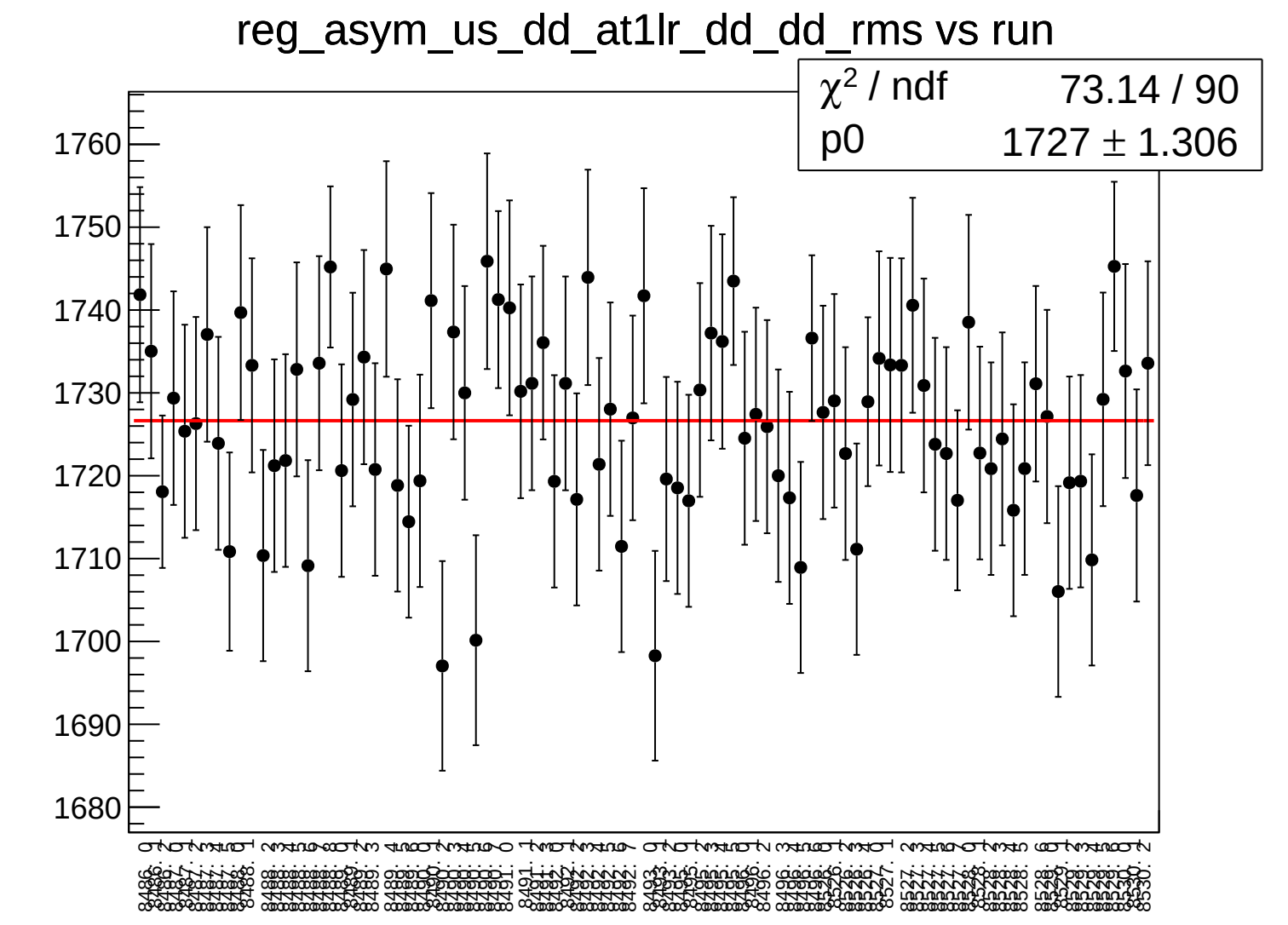

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.88 / 90
p0 −3.191e−14 ± 6.595e−14
pull
Entries 91
Mean 45.16
Std Dev 42.98

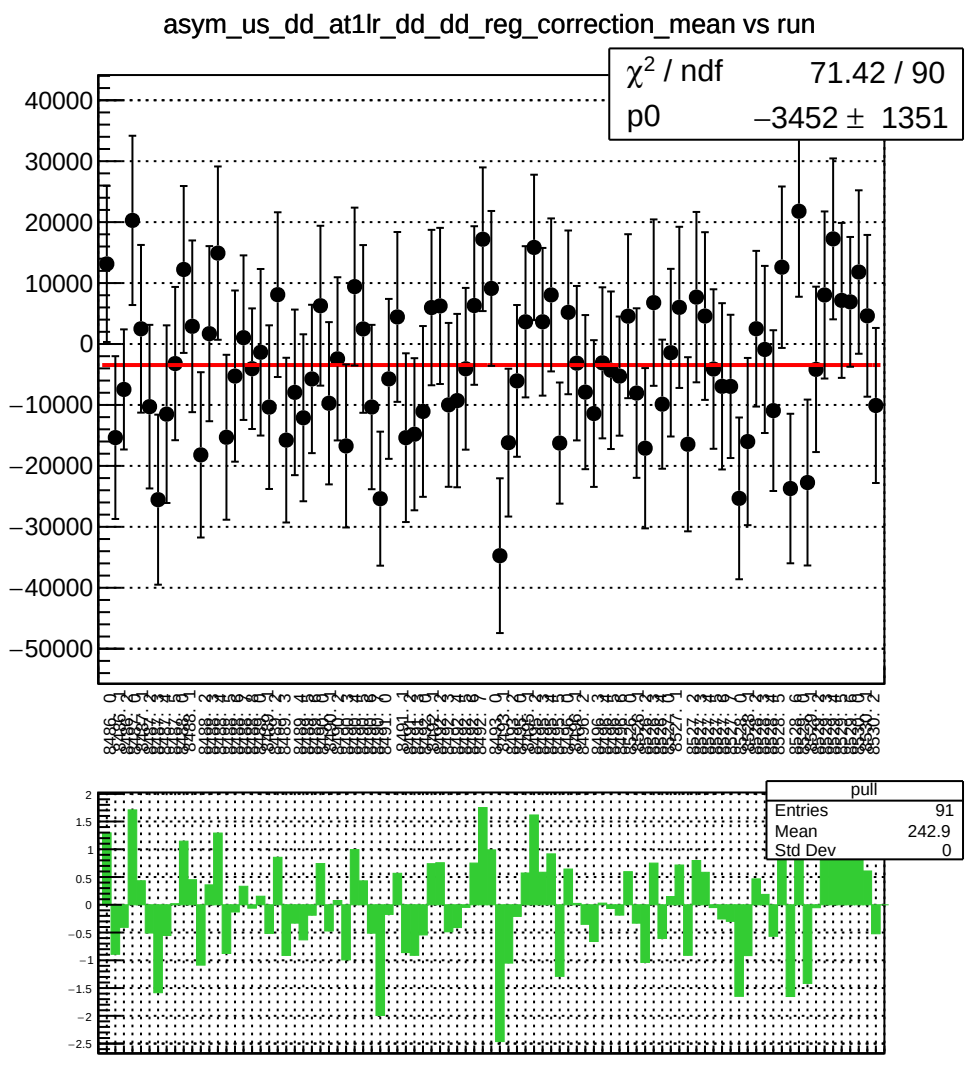

pull1D
Entries 91
Mean −0.06598
Std Dev 0.9578

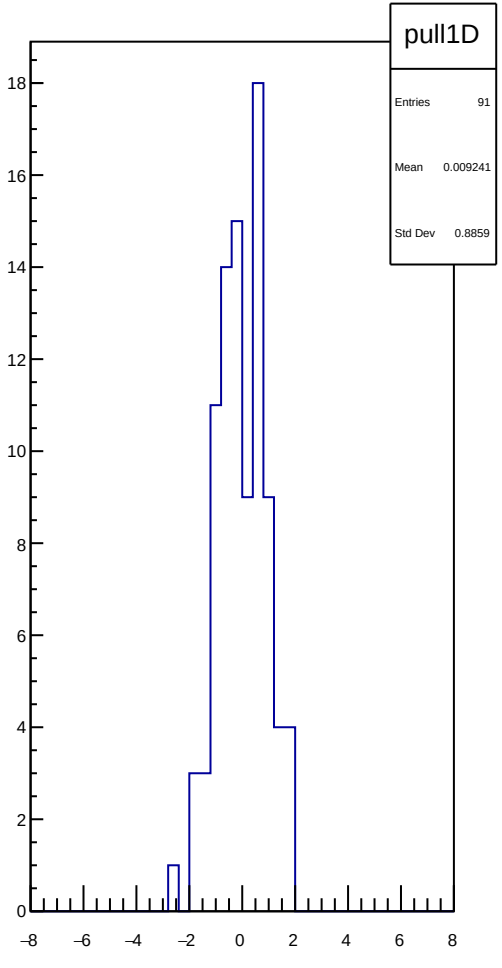

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.874e+05 / 90
p0 4.329e−11 ± 4.663e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

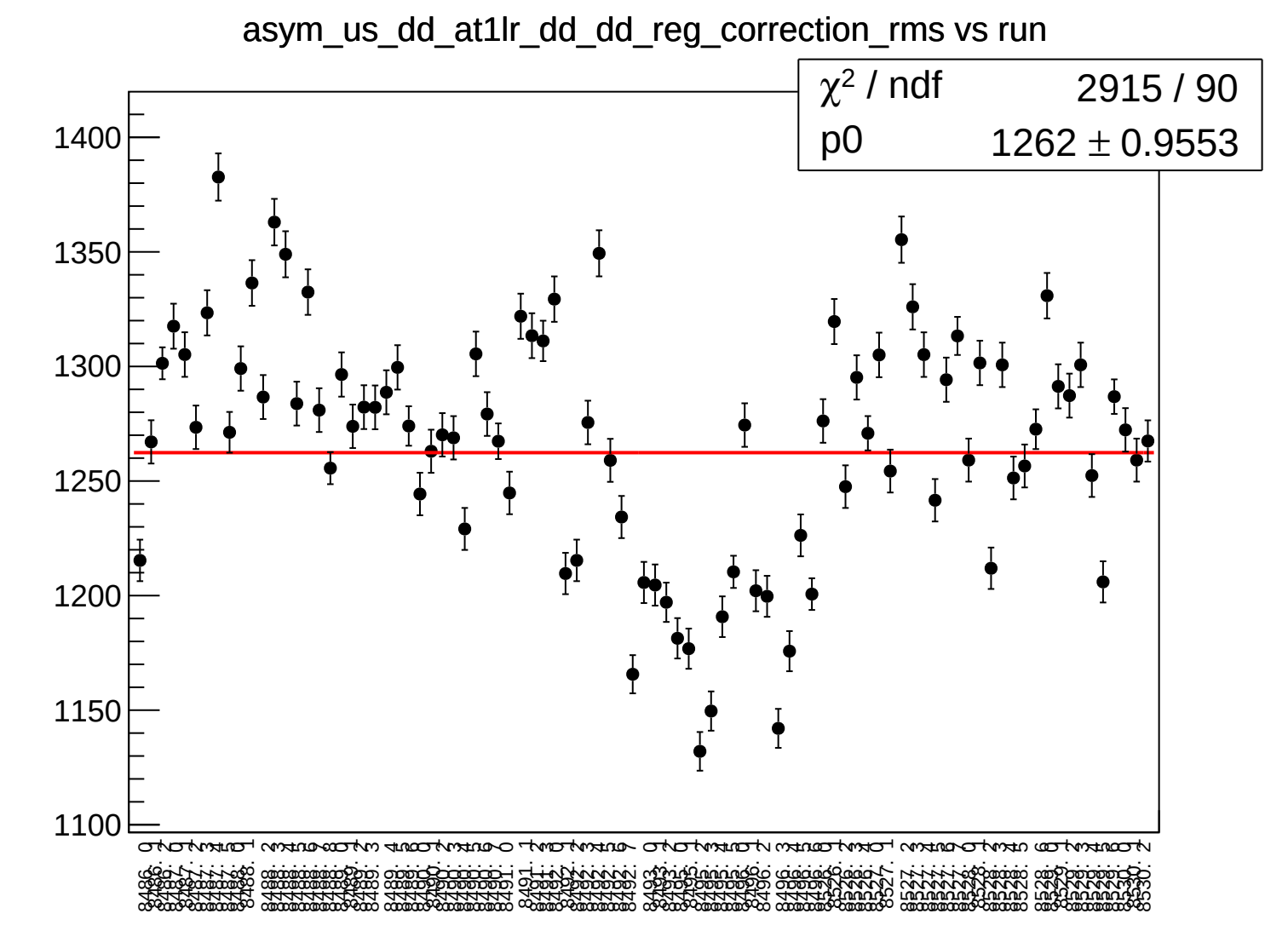

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 70.81 / 90
p0 504.7 ± 1846
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −228.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

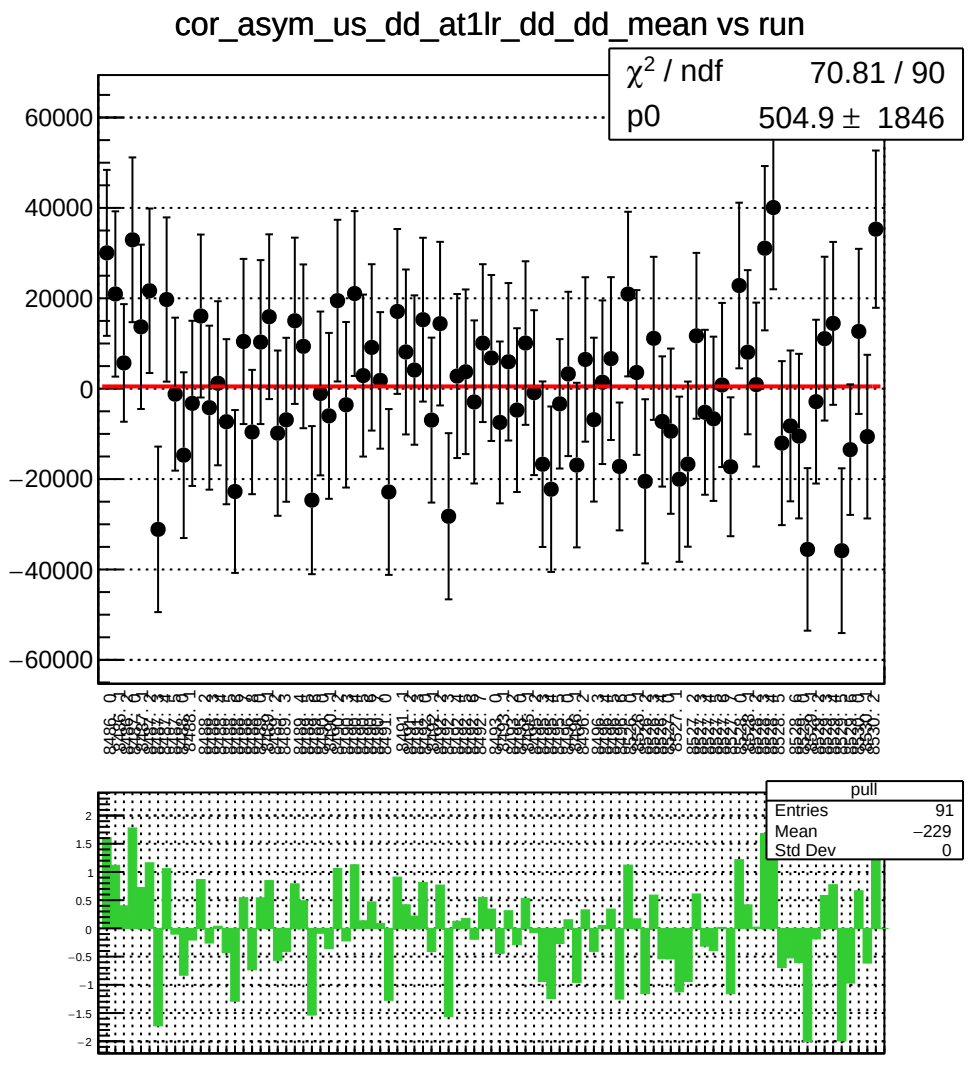

pull1D
Entries 91
Mean 0.01249
Std Dev 0.882
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

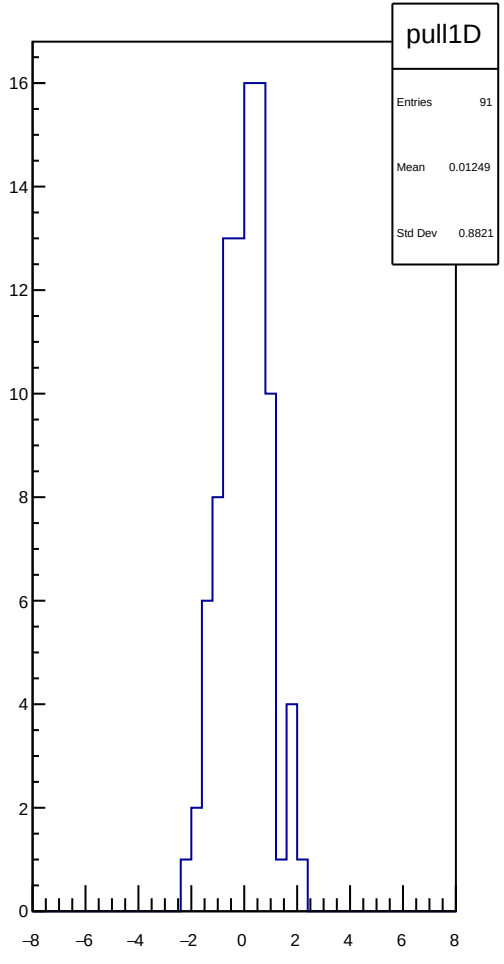

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 73.14 / 90
p0 1727 ± 1.306
1760
1750
1740
1730
1720
1710
1700
1690
1680

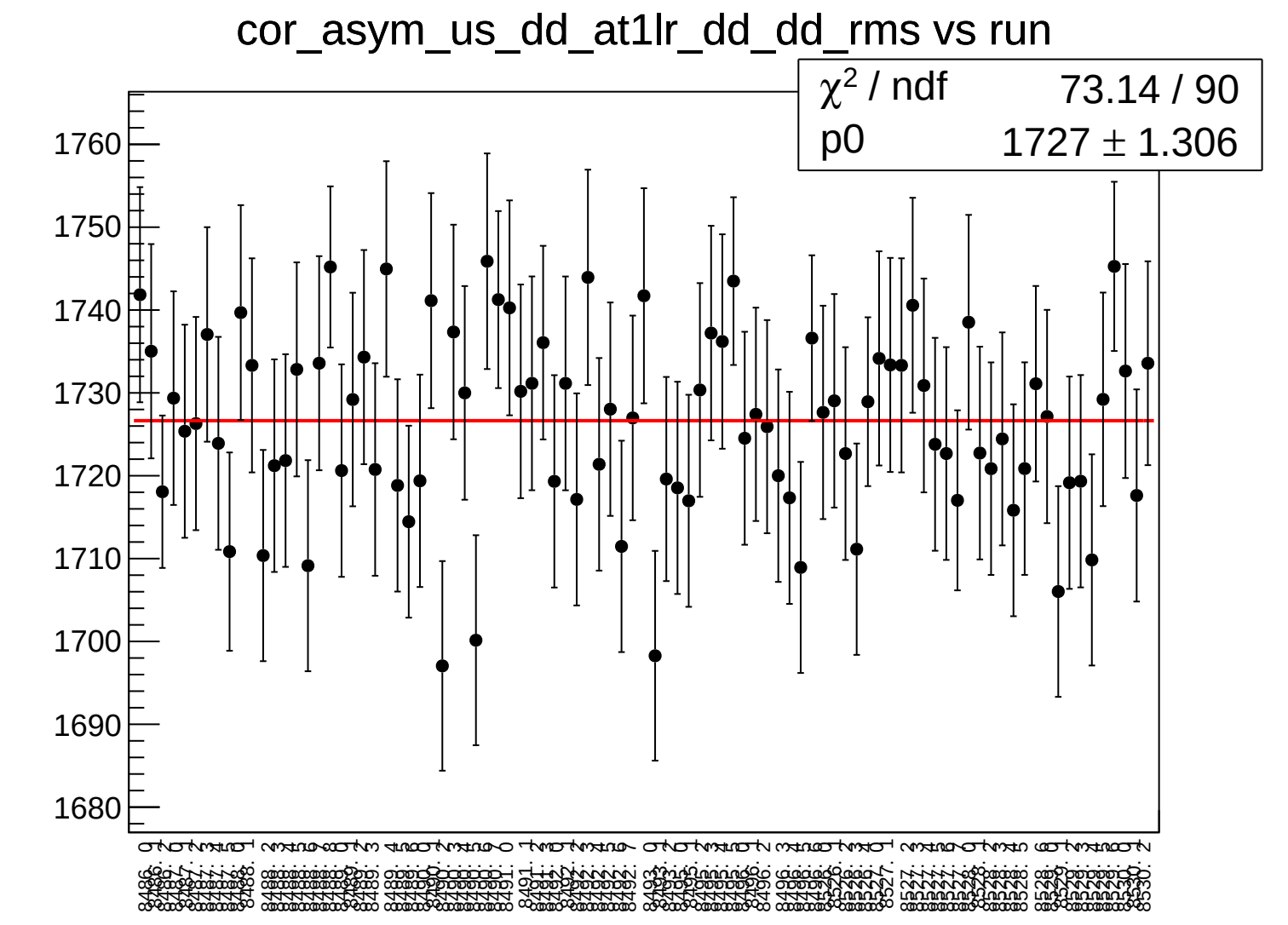

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 71.42 / 90
p0 −3452 ± 1351
pull
Entries 91
Mean 242.9
Std Dev 0

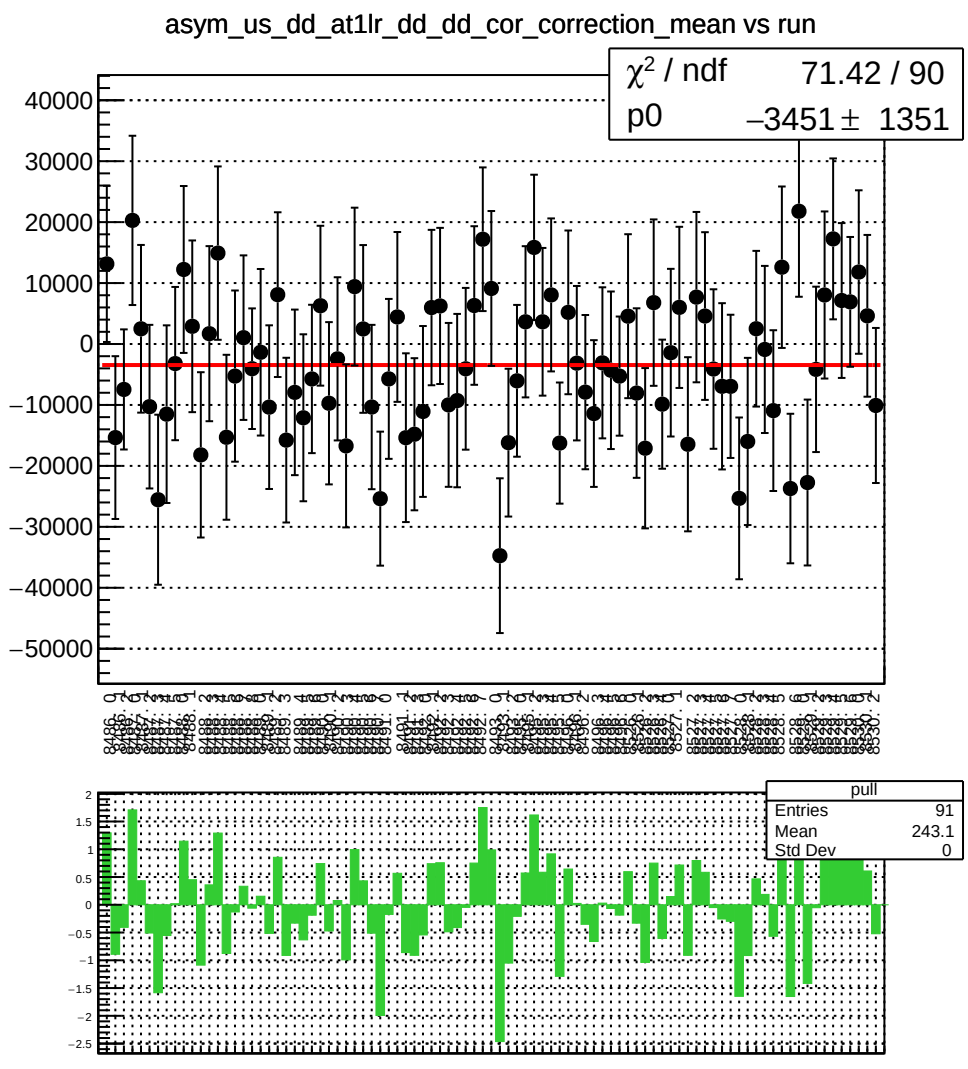

pull1D
Entries 91
Mean 0.009241
Std Dev 0.8859

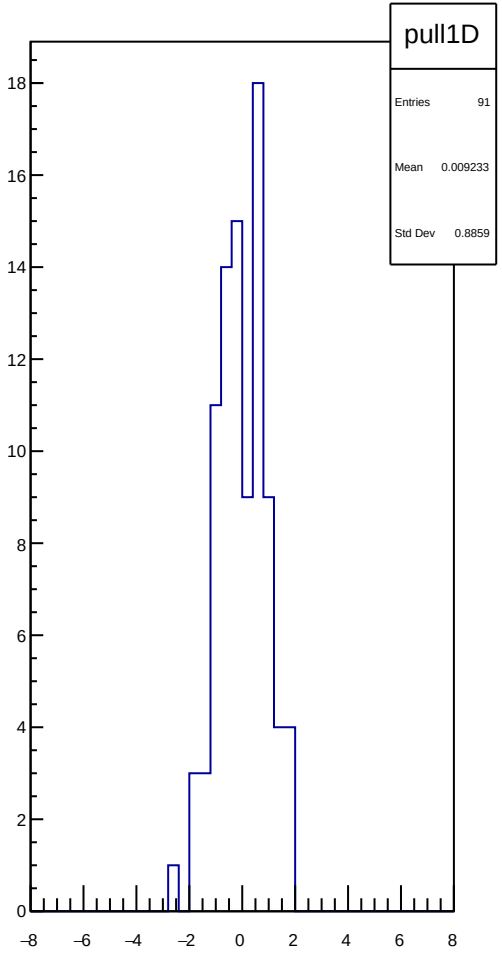

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 2915 / 90
p0 1262 ± 0.9553
1400
1350
1300
1250
1200
1150
1100

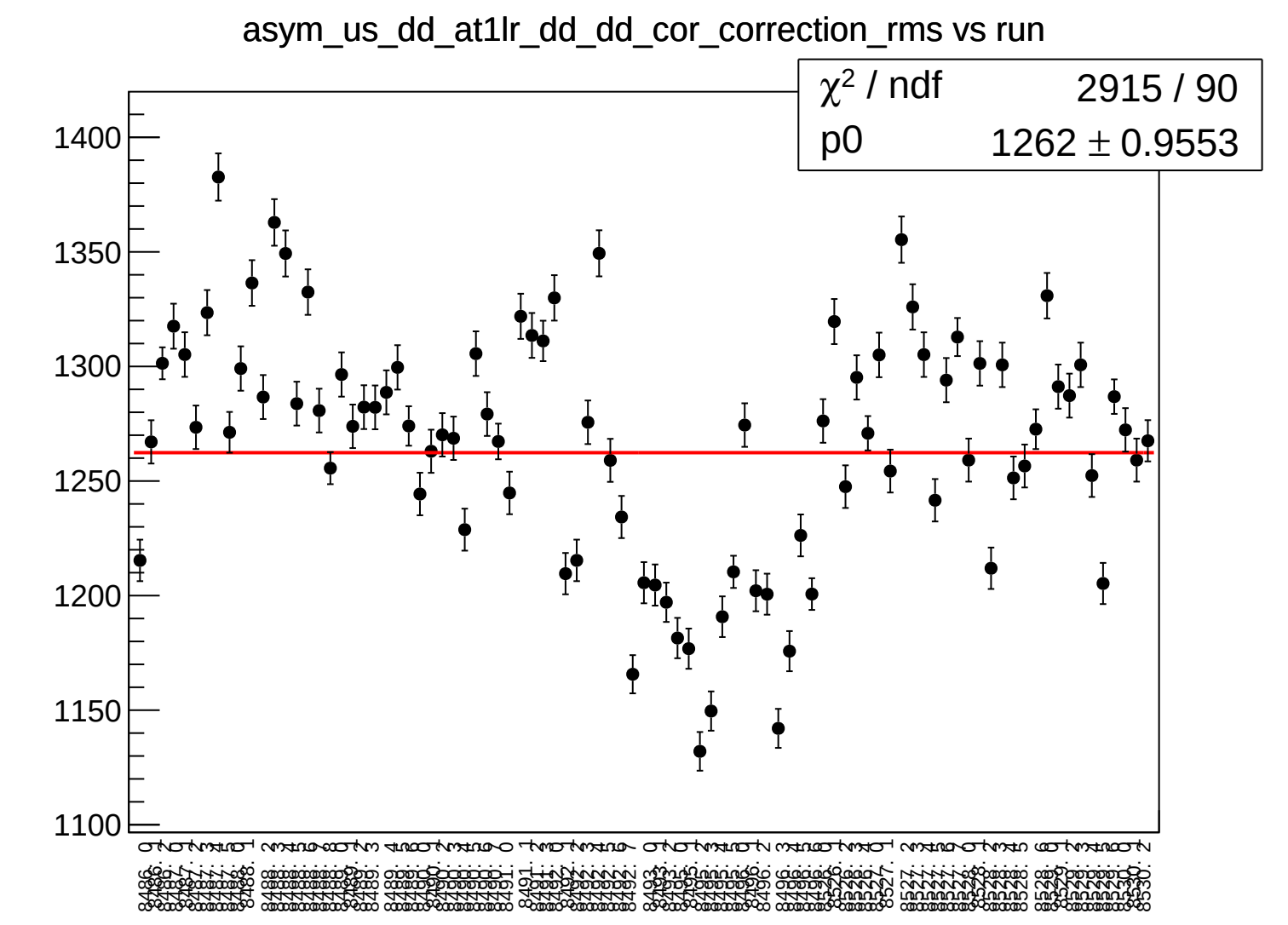

cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 70.81 / 90
p0 504.9 ± 1846
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −229
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

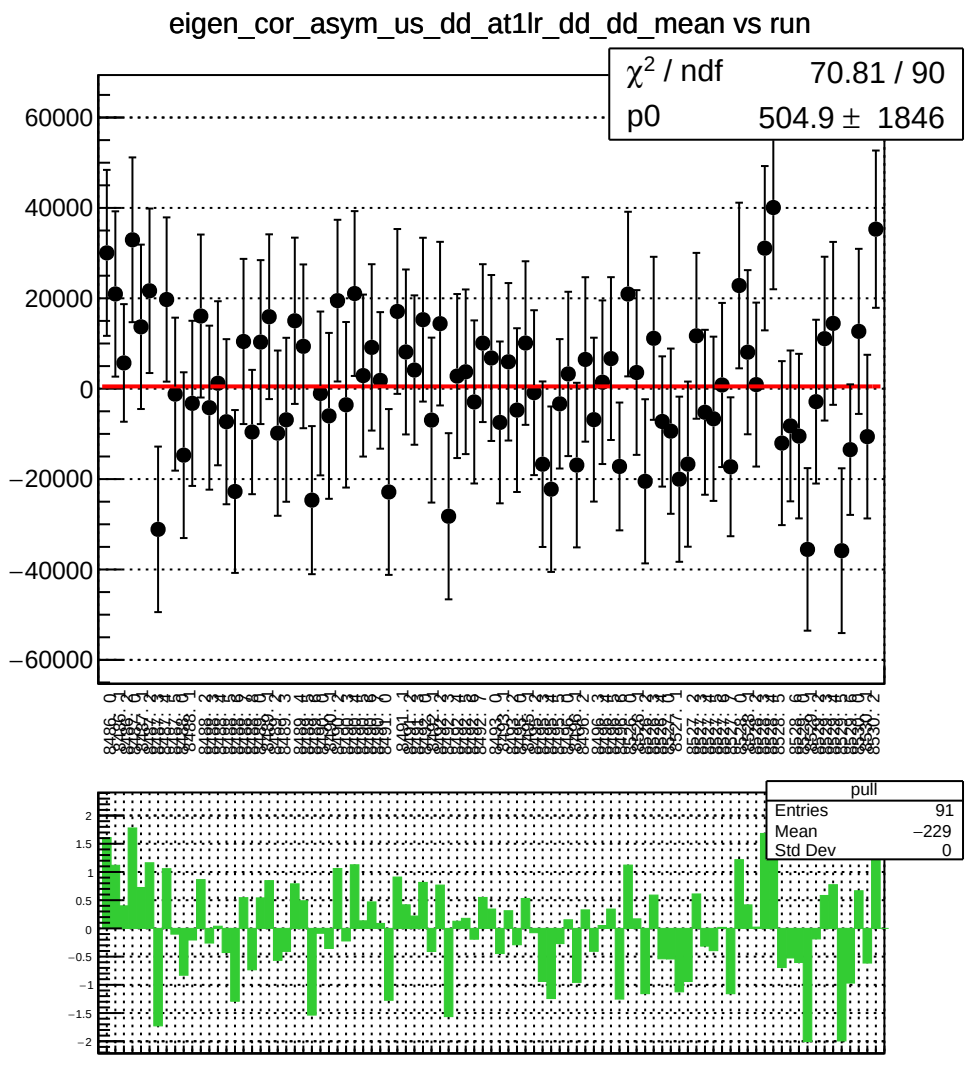

pull1D
Entries 91
Mean 0.01249
Std Dev 0.8821
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

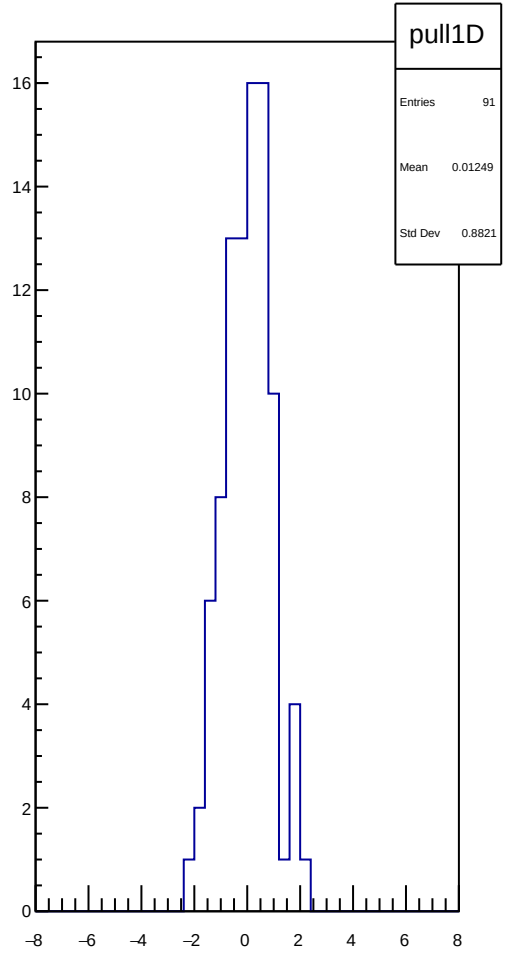

cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 73.14 / 90
p0 1727 ± 1.306
1760
1750
1740
1730
1720
1710
1700
1690
1680

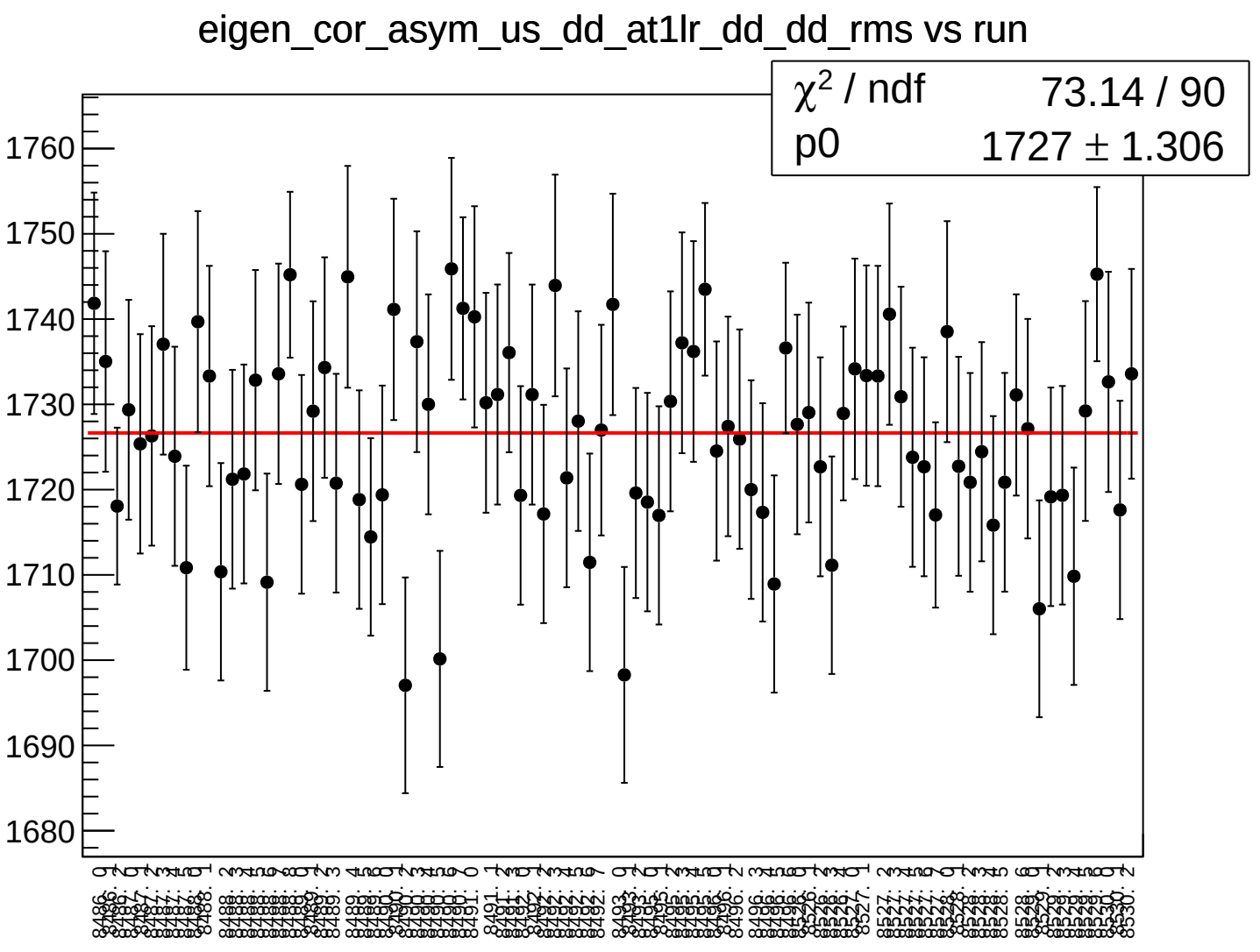

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ² / ndf 71.42 / 90
p0 −3451 ± 1351
pull
Entries 91
Mean 243.1
Std Dev 0

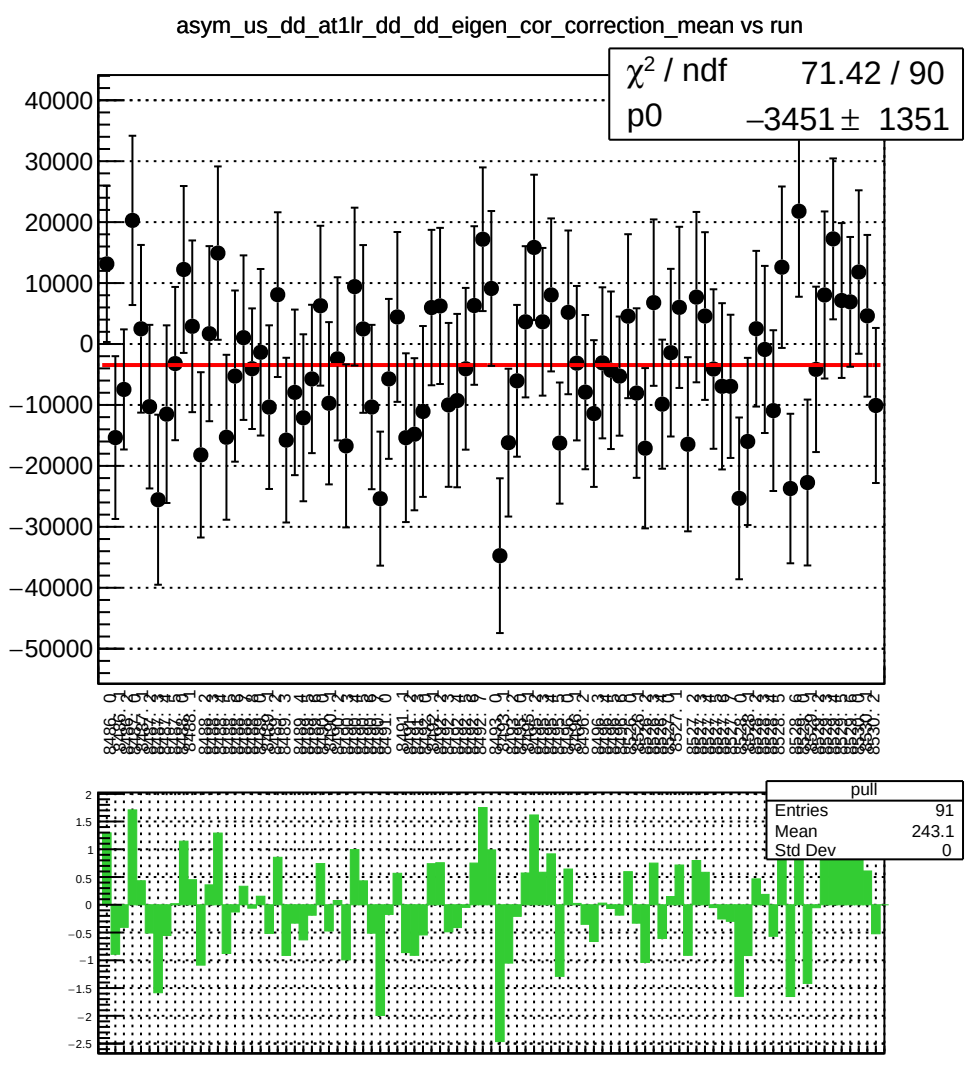

pull1D
Entries 91
Mean 0.009233
Std Dev 0.8859

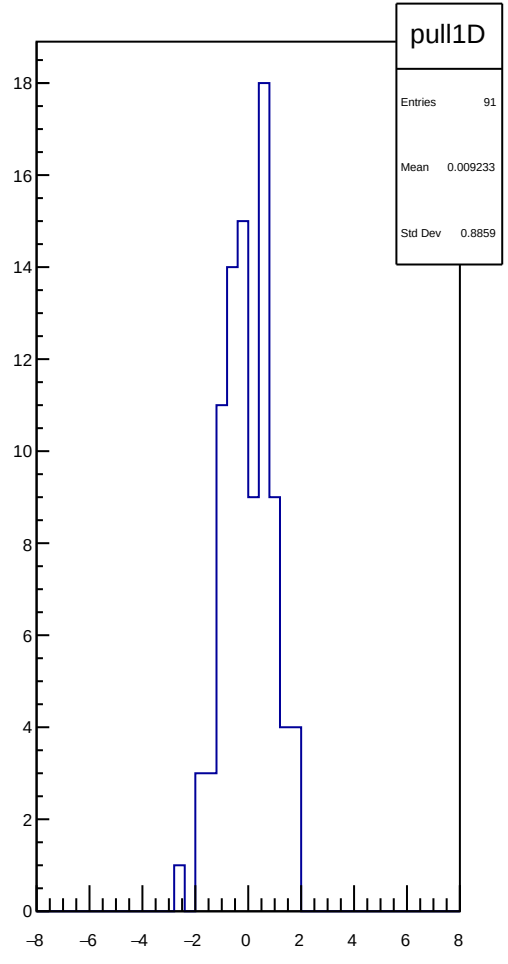

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 2915 / 90
p0 1262 ± 0.9553
1400
1350
1300
1250
1200
1150
1100

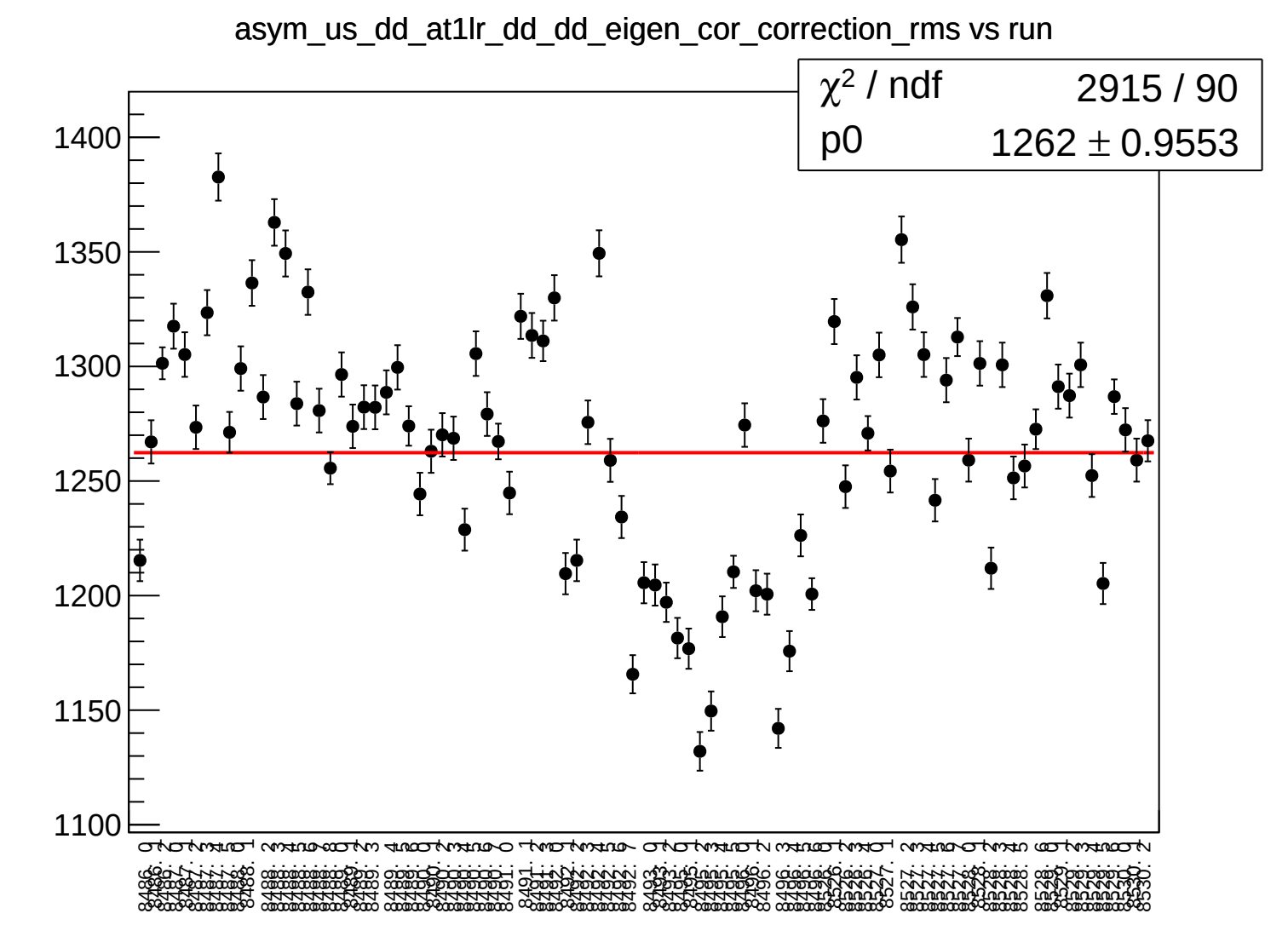

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 70.81 / 90
p0 504.9 ± 1846
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −229
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

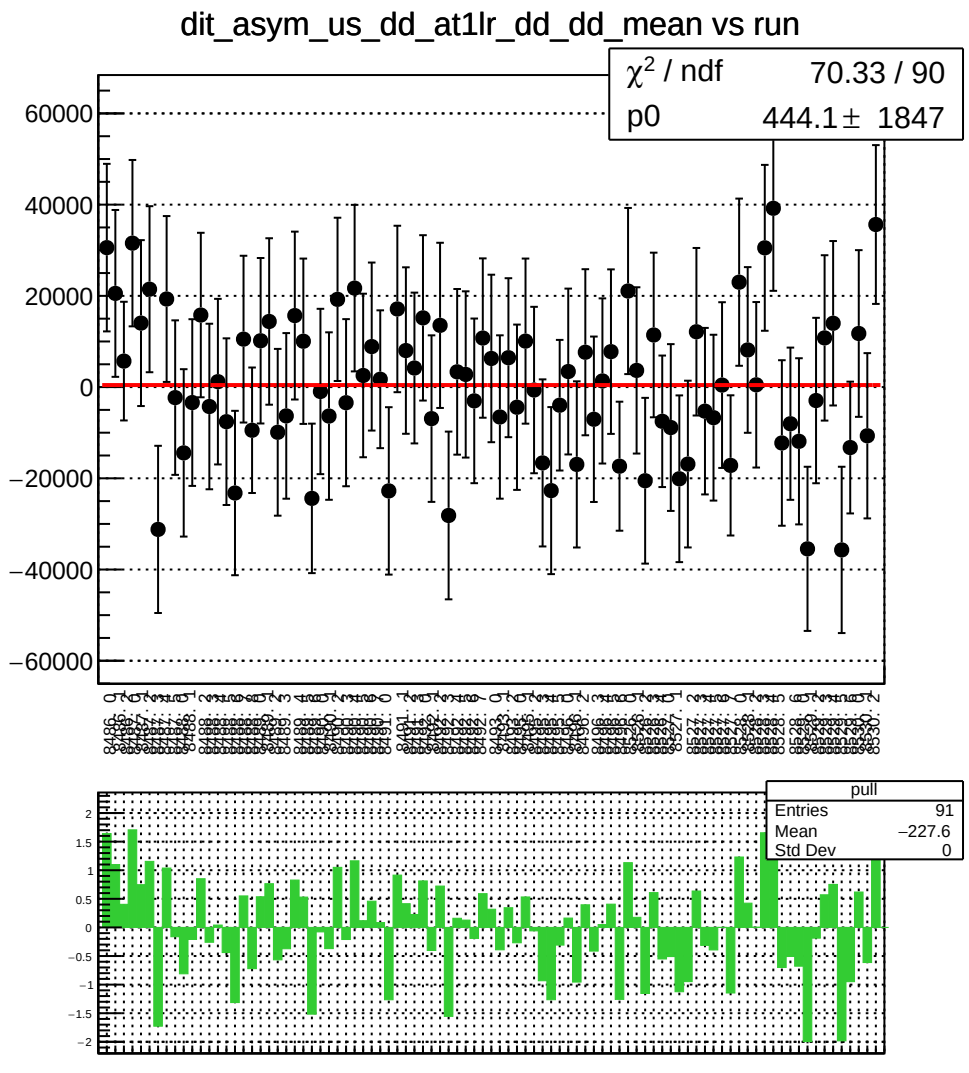

pull1D
Entries 91
Mean 0.01249
Std Dev 0.8821
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

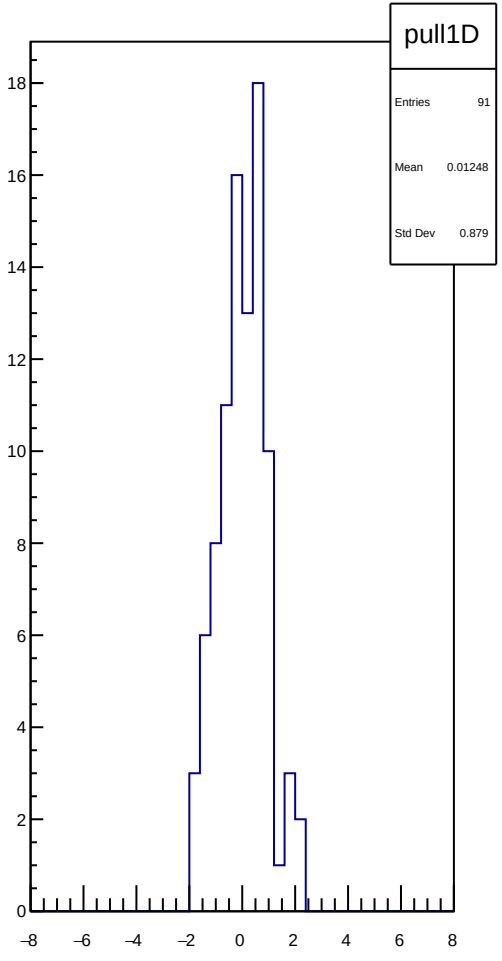

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 73.14 / 90
p0 1727 ± 1.306
1760
1750
1740
1730
1720
1710
1700
1690
1680

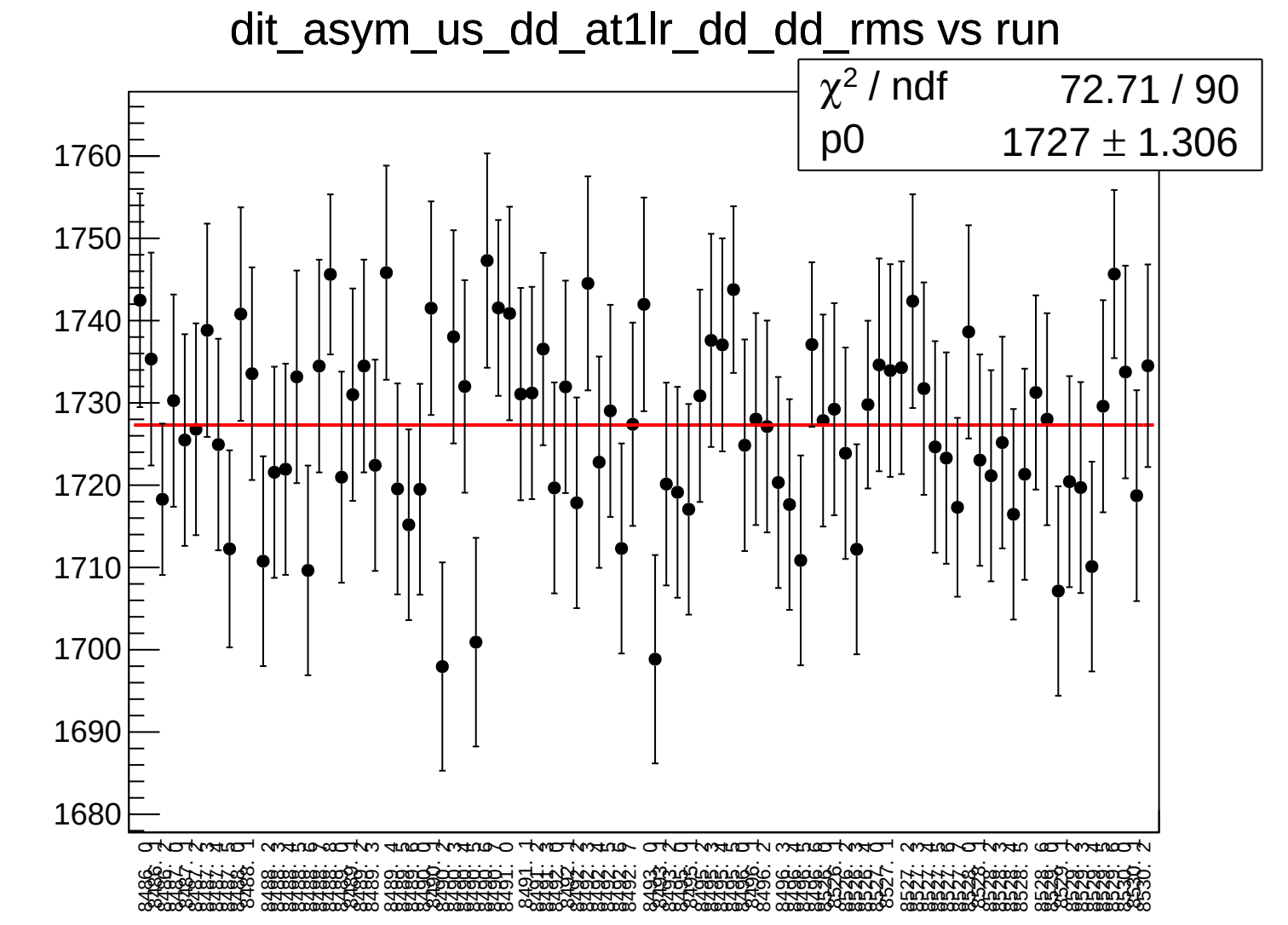

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 71.42 / 90
p0 −3451 ± 1351
pull
Entries 91
Mean 243.1
Std Dev 0

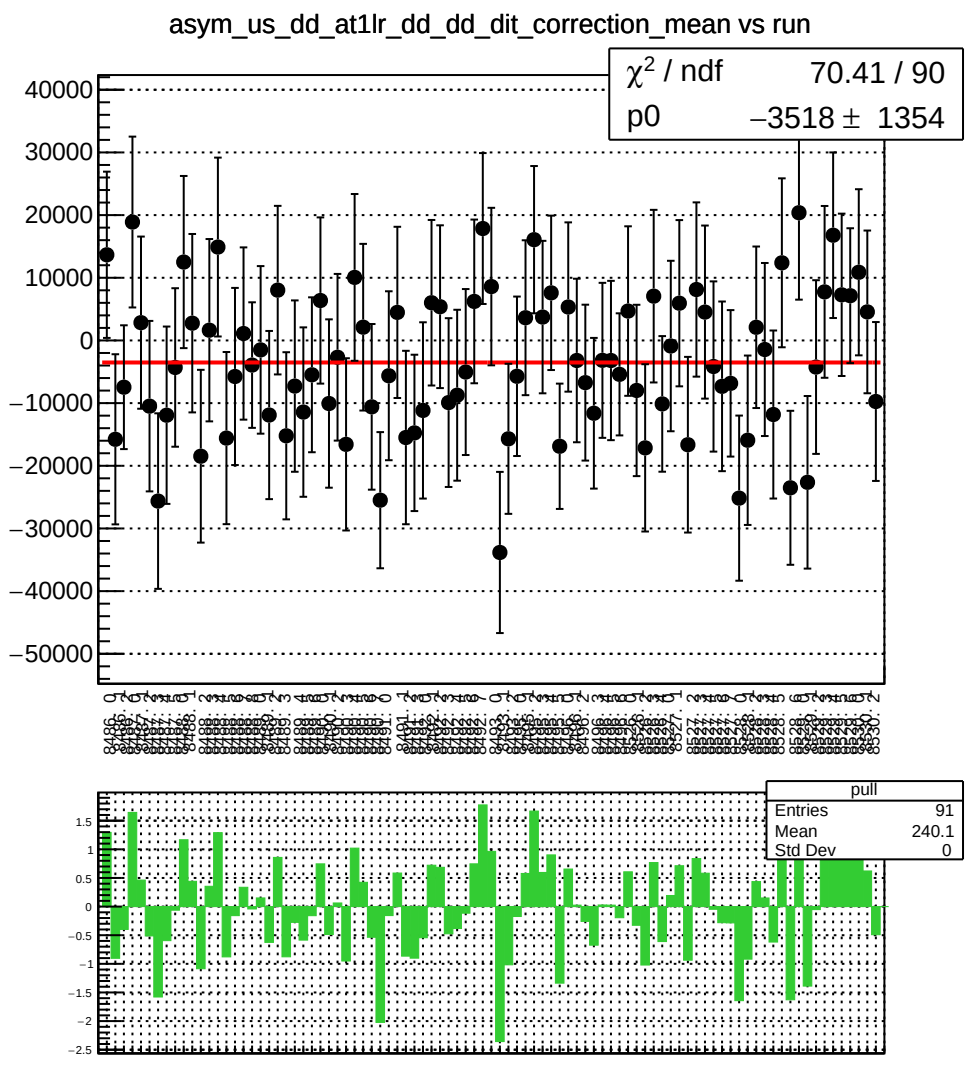

pull1D
Entries 91
Mean 0.009233
Std Dev 0.8859

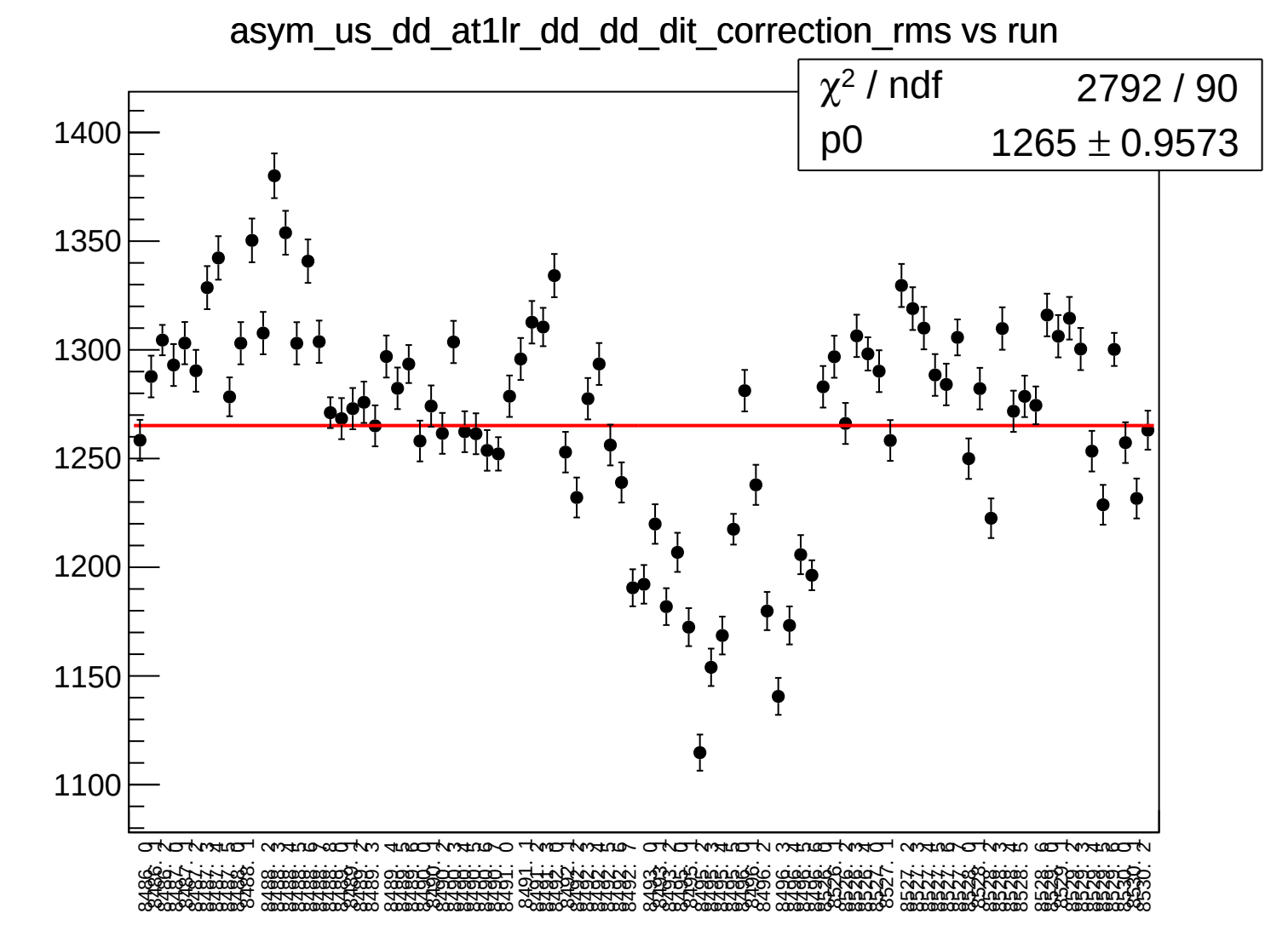

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 2915 / 90
p0 1262 ± 0.9553
1400
1350
1300
1250
1200
1150
1100

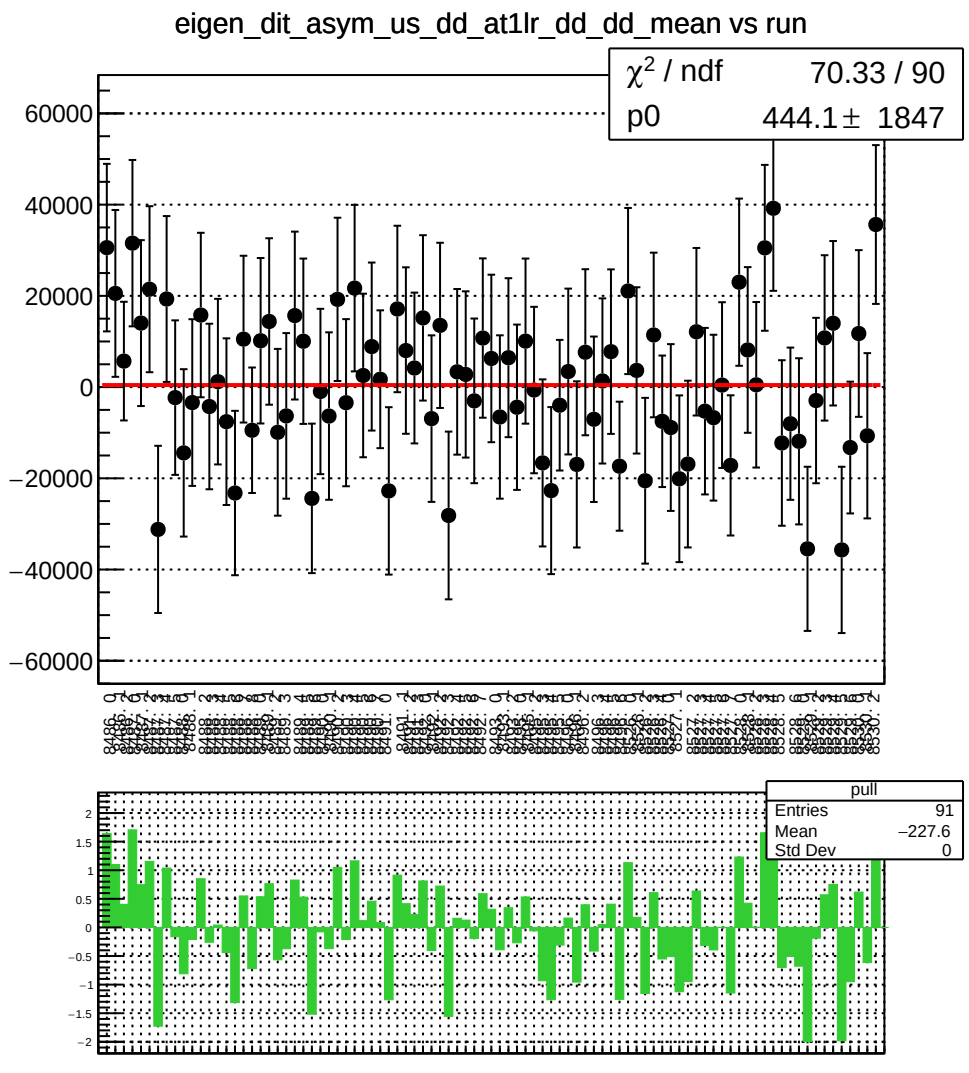

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 70.33 / 90
p0 444.1 ± 1847
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −227.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

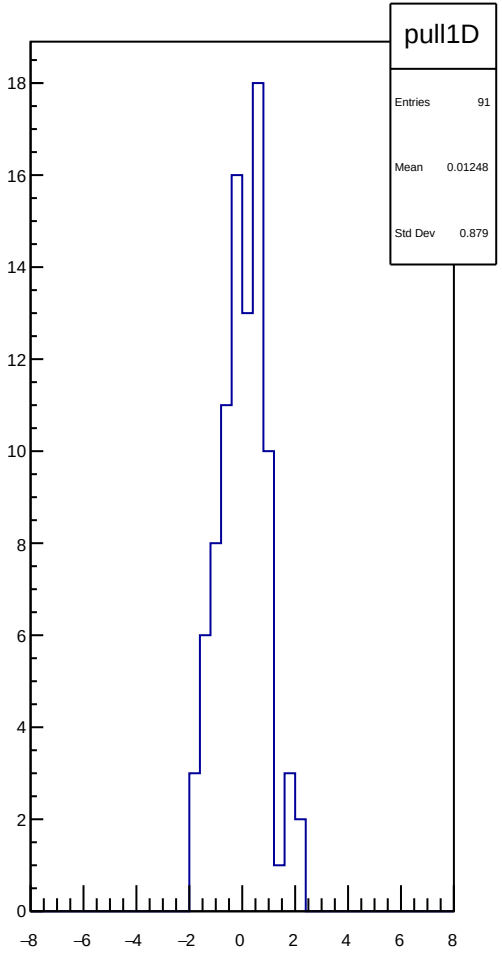

pull1D
Entries 91
Mean 0.01248
Std Dev 0.879
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

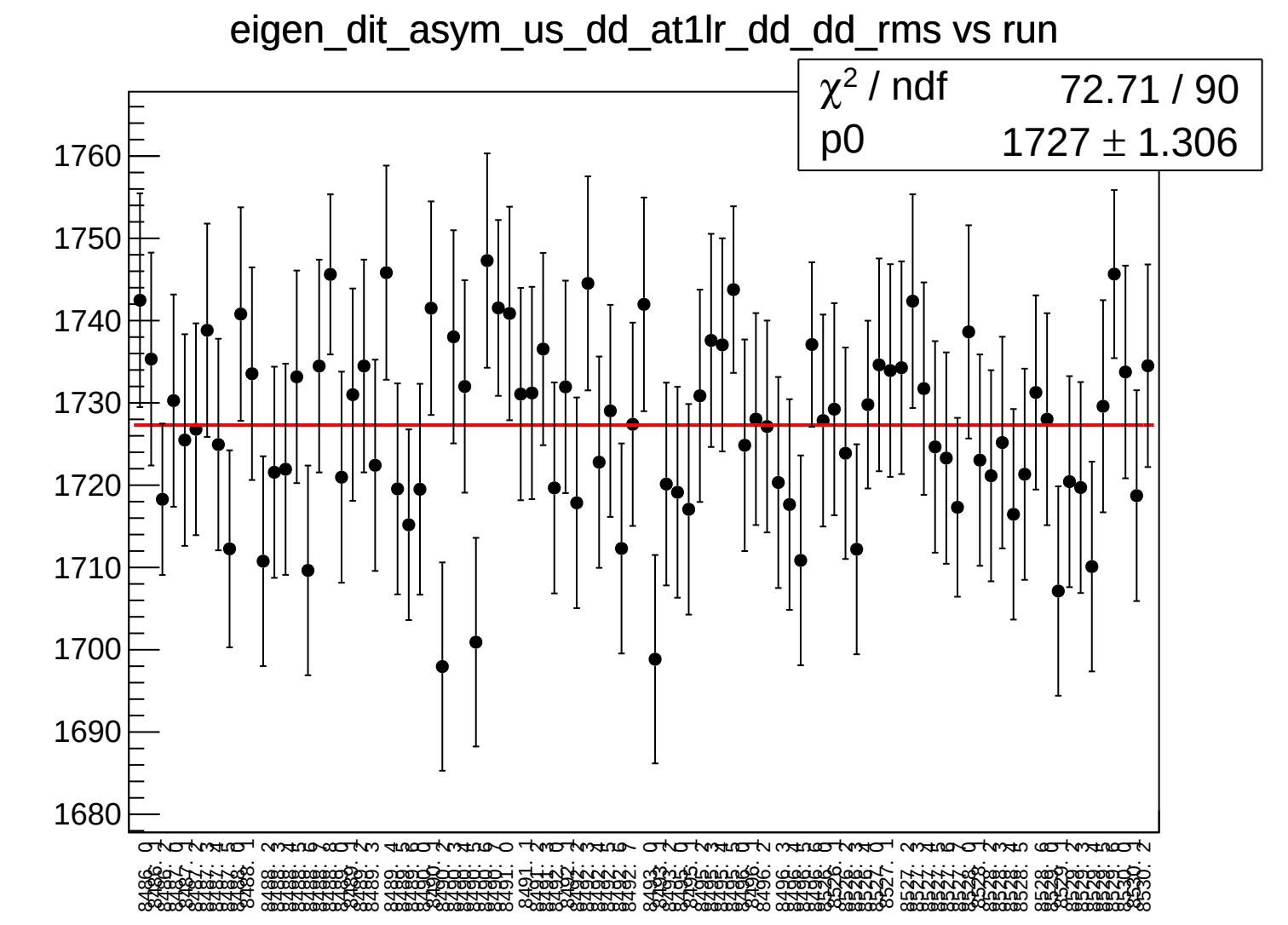

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 72.71 / 90
p0 1727 ± 1.306
1760
1750
1740
1730
1720
1710
1700
1690
1680

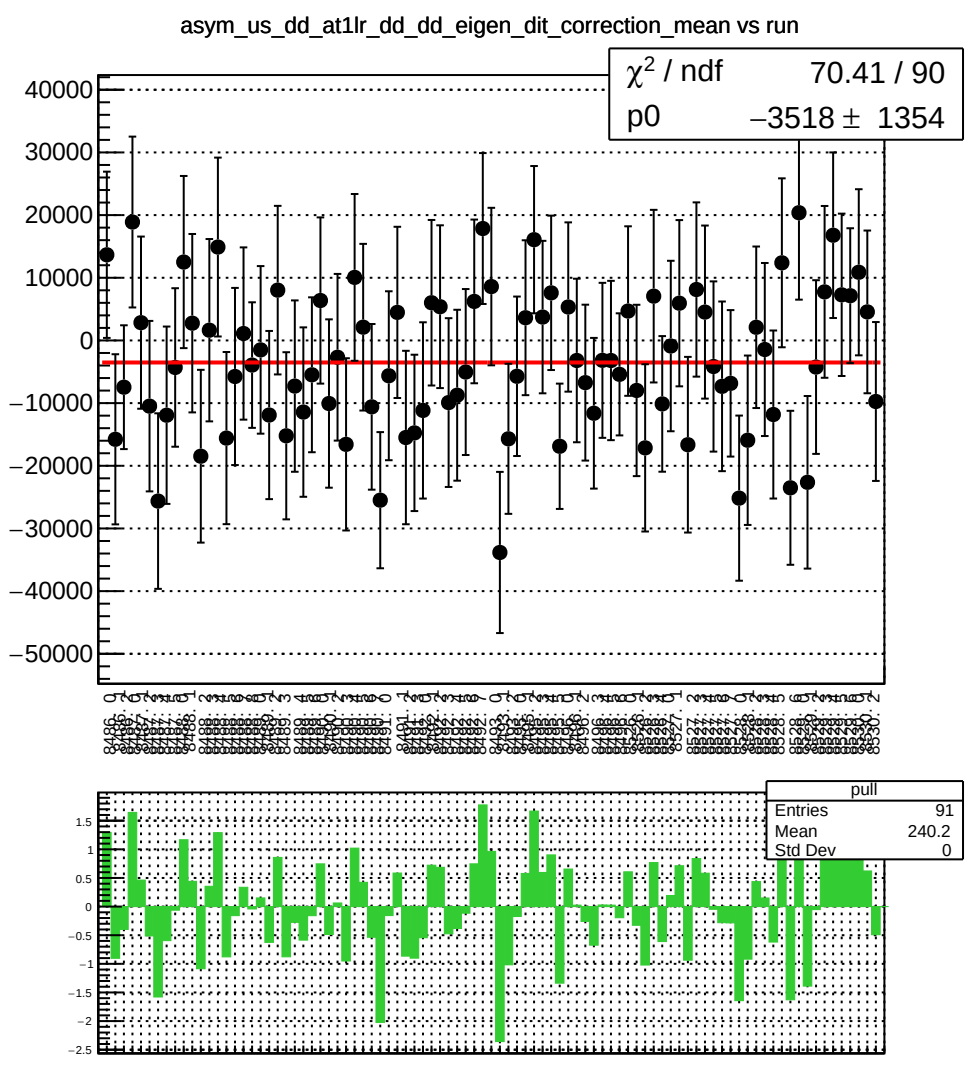

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
χ² / ndf 70.41 / 90
p0 −3518 ± 1354
pull
Entries 91
Mean 240.1
Std Dev 0
pull1D
Entries 91
Mean 0.009518
Std Dev 0.8796

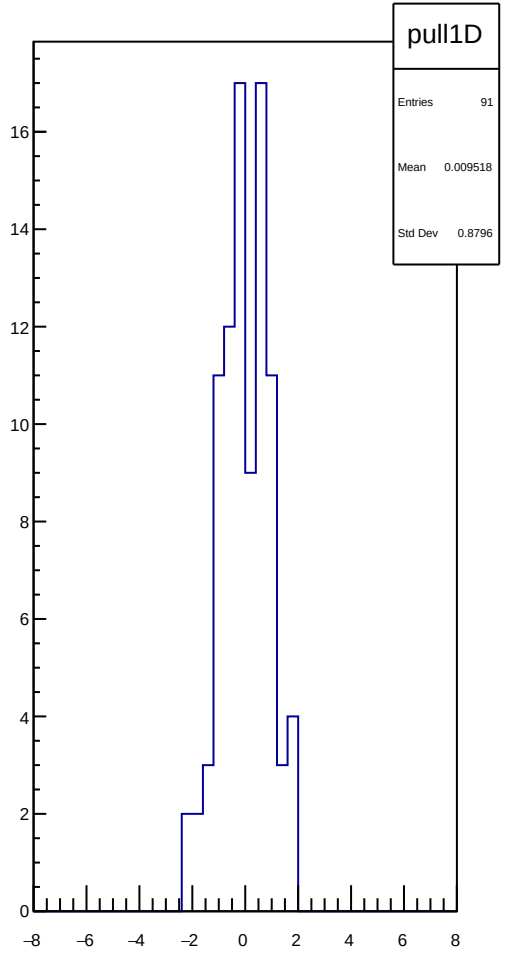

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 2792 / 90
p0 1265 ± 0.9573
1400
1350
1300
1250
1200
1150
1100

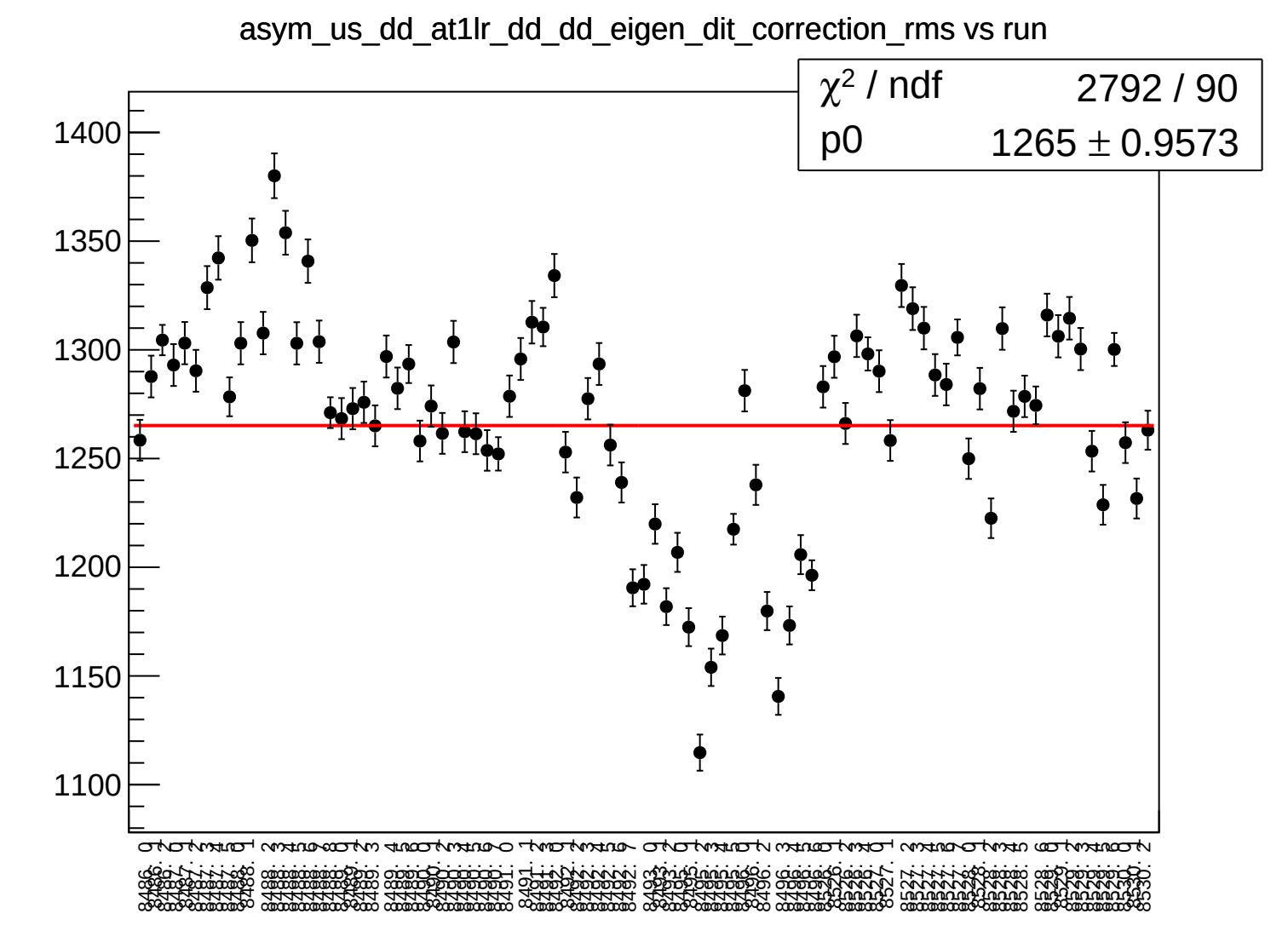

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 70.33 / 90
p0 444.1± 1847
pull
Entries 91
Mean −227.6
Std Dev 0

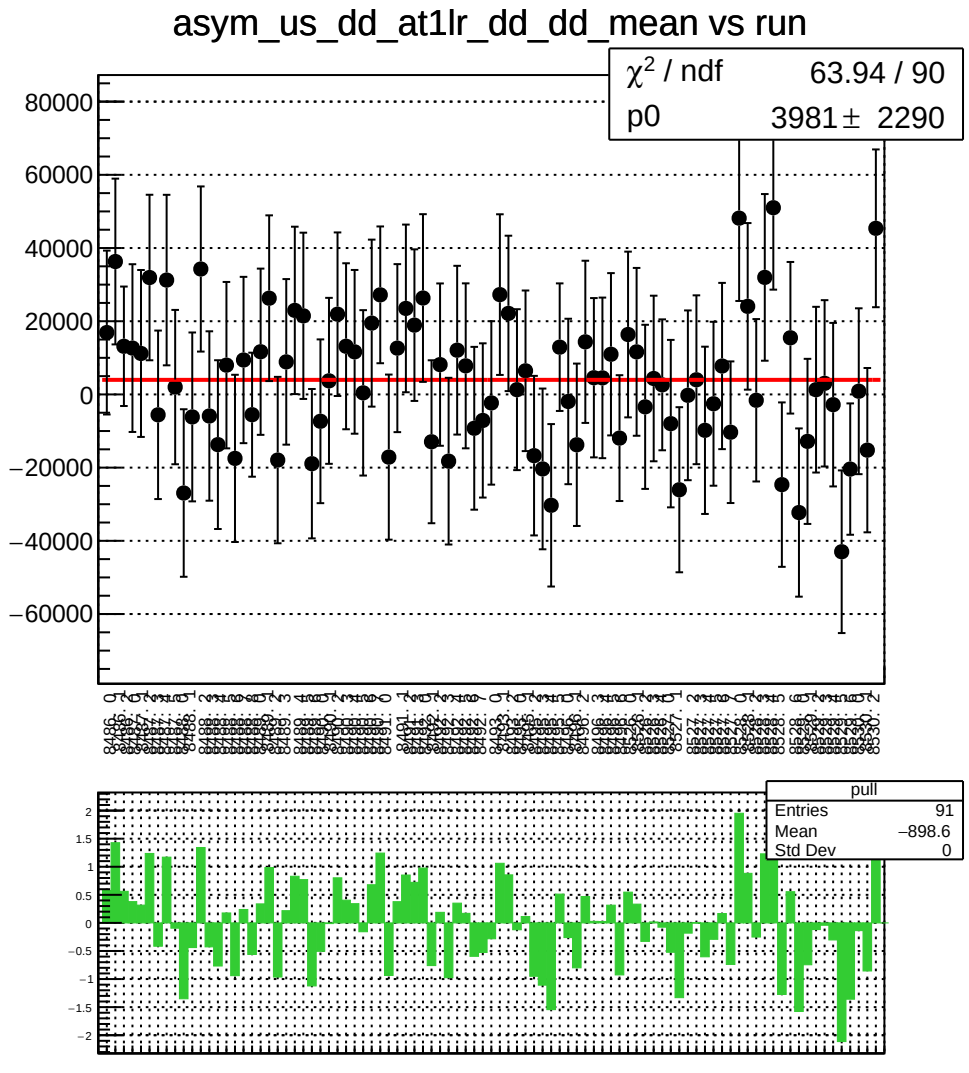

pull1D
Entries 91
Mean 0.01248
Std Dev 0.879

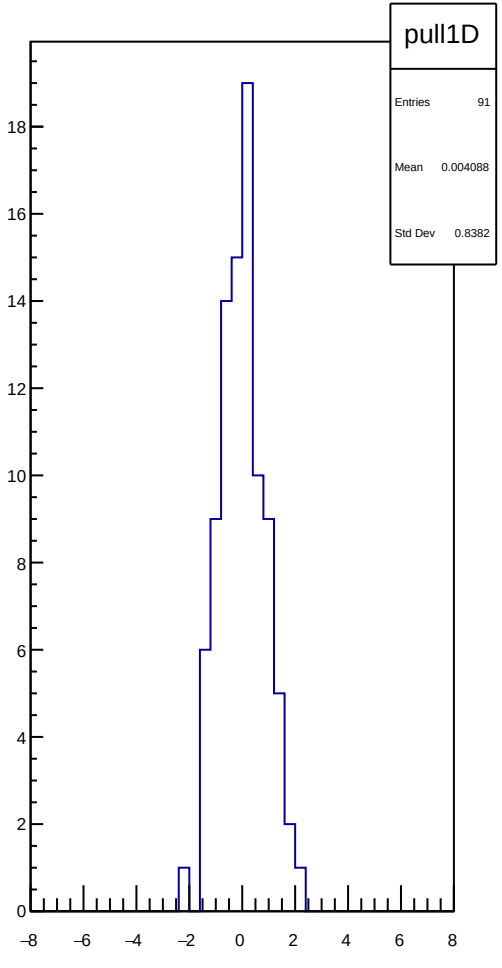

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 72.71 / 90
p0 1727 ± 1.306
1760
1750
1740
1730
1720
1710
1700
1690
1680

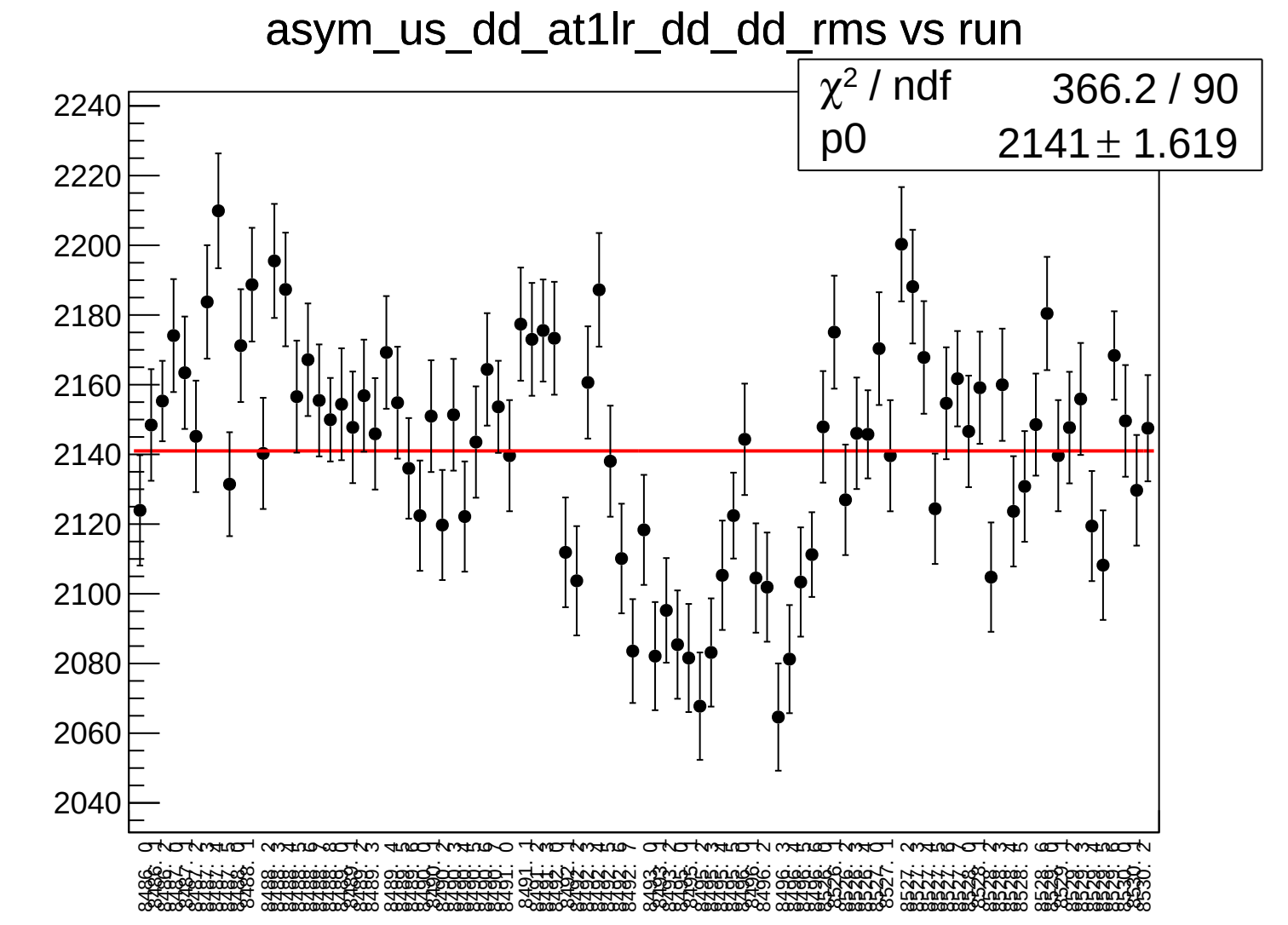

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 70.41 / 90
p0 −3518 ± 1354
pull
Entries 91
Mean 240.2
Std Dev 0

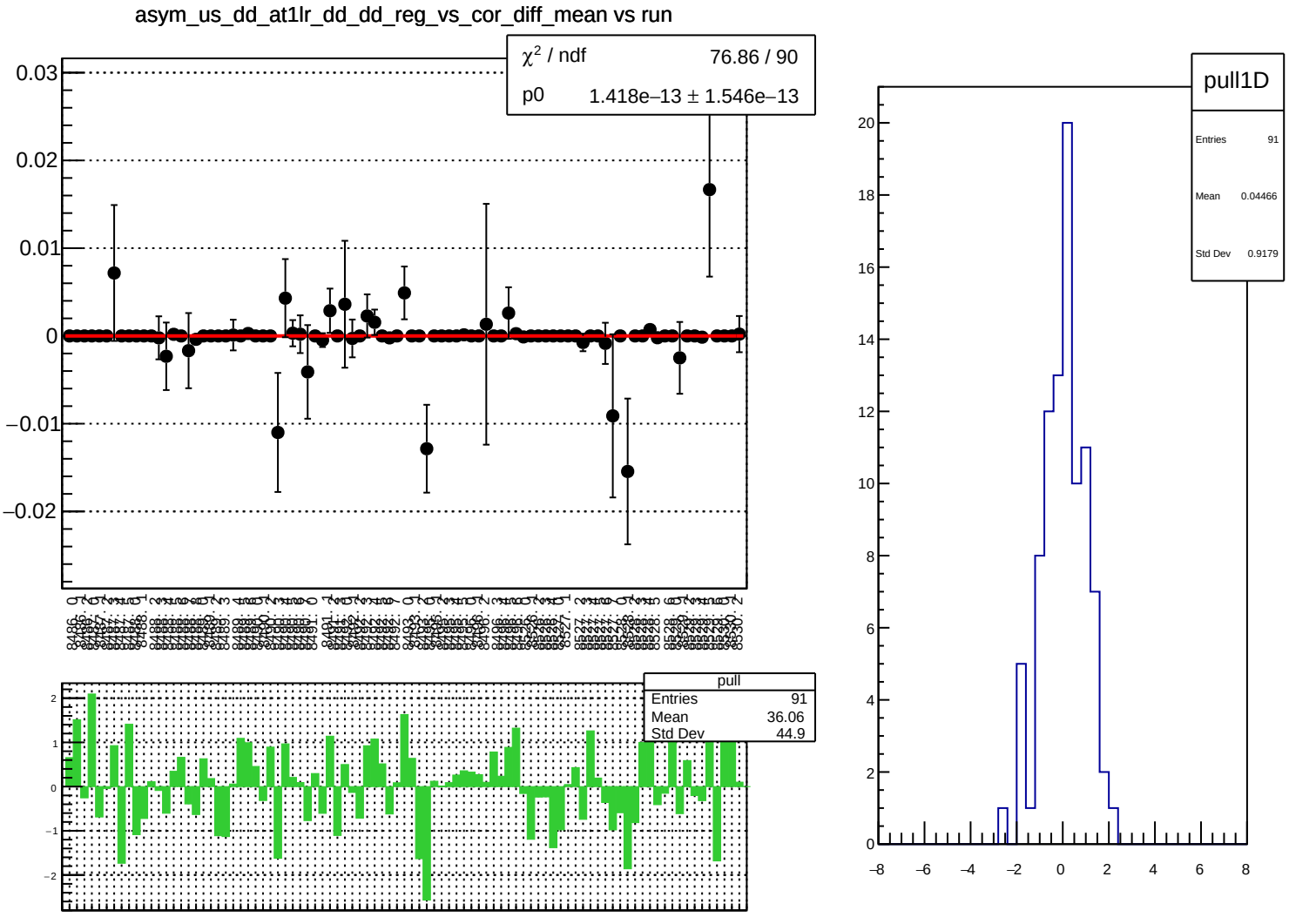

pull1D
Entries 91
Mean 0.009518
Std Dev 0.8796

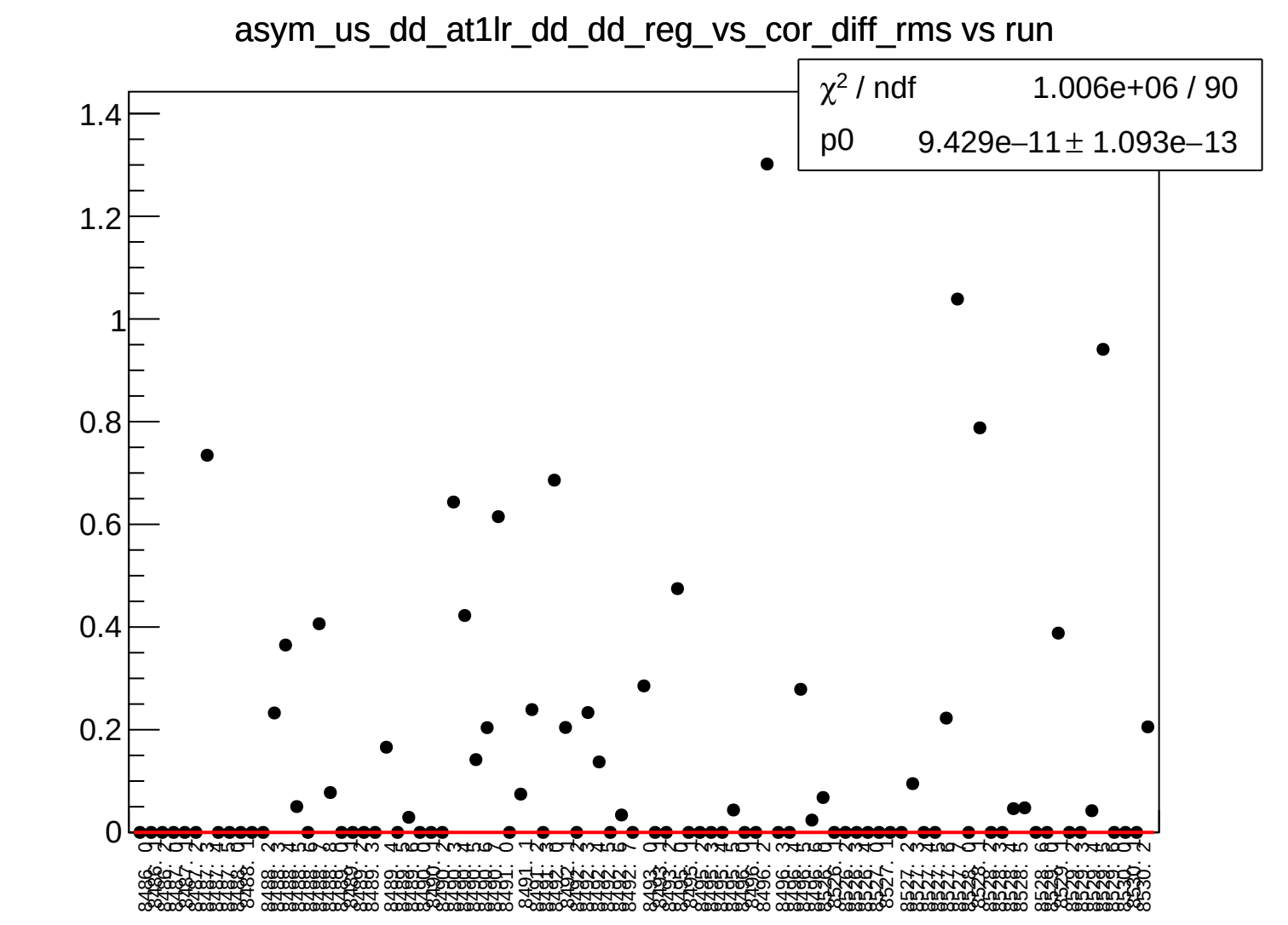

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 2792 / 90
p0 1265 ± 0.9573
1400
1350
1300
1250
1200
1150
1100

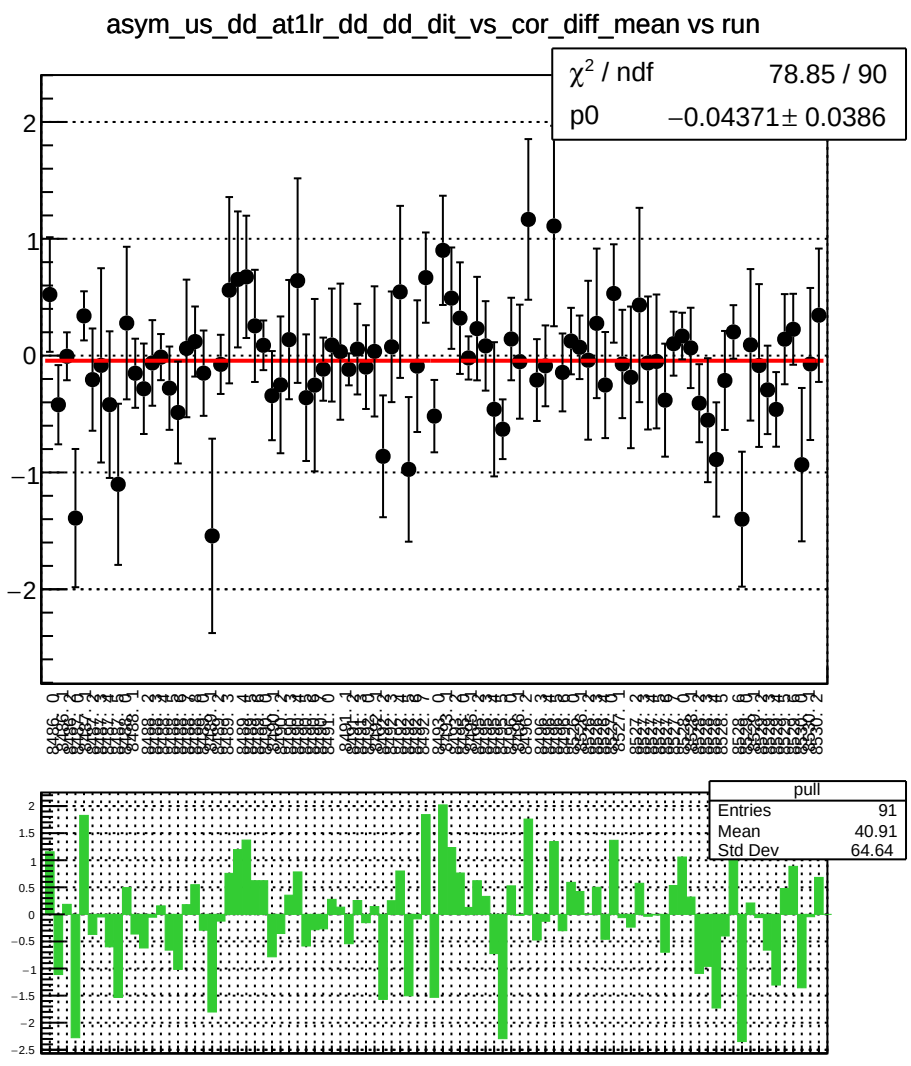

asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 63.94 / 90
p0 3981 ± 2290
pull
Entries 91
Mean −898.6
Std Dev 0

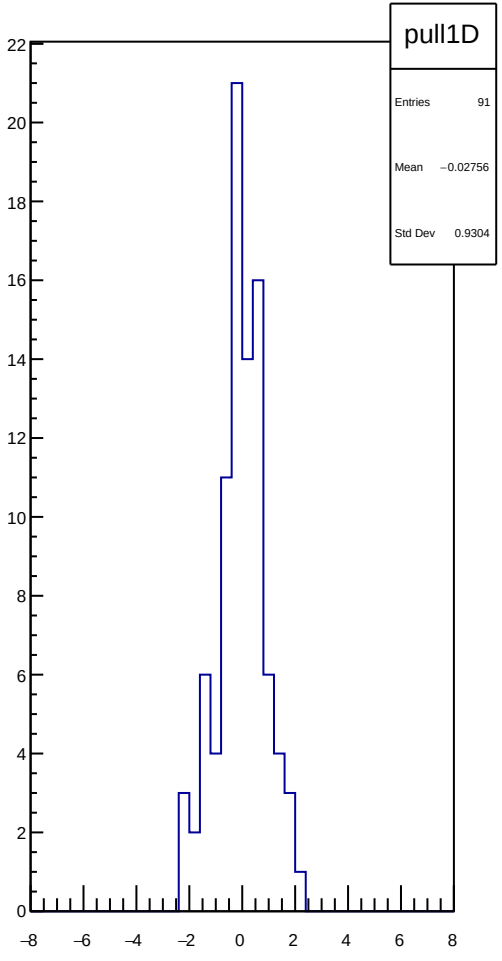

pull1D
Entries 91
Mean 0.004088
Std Dev 0.8382

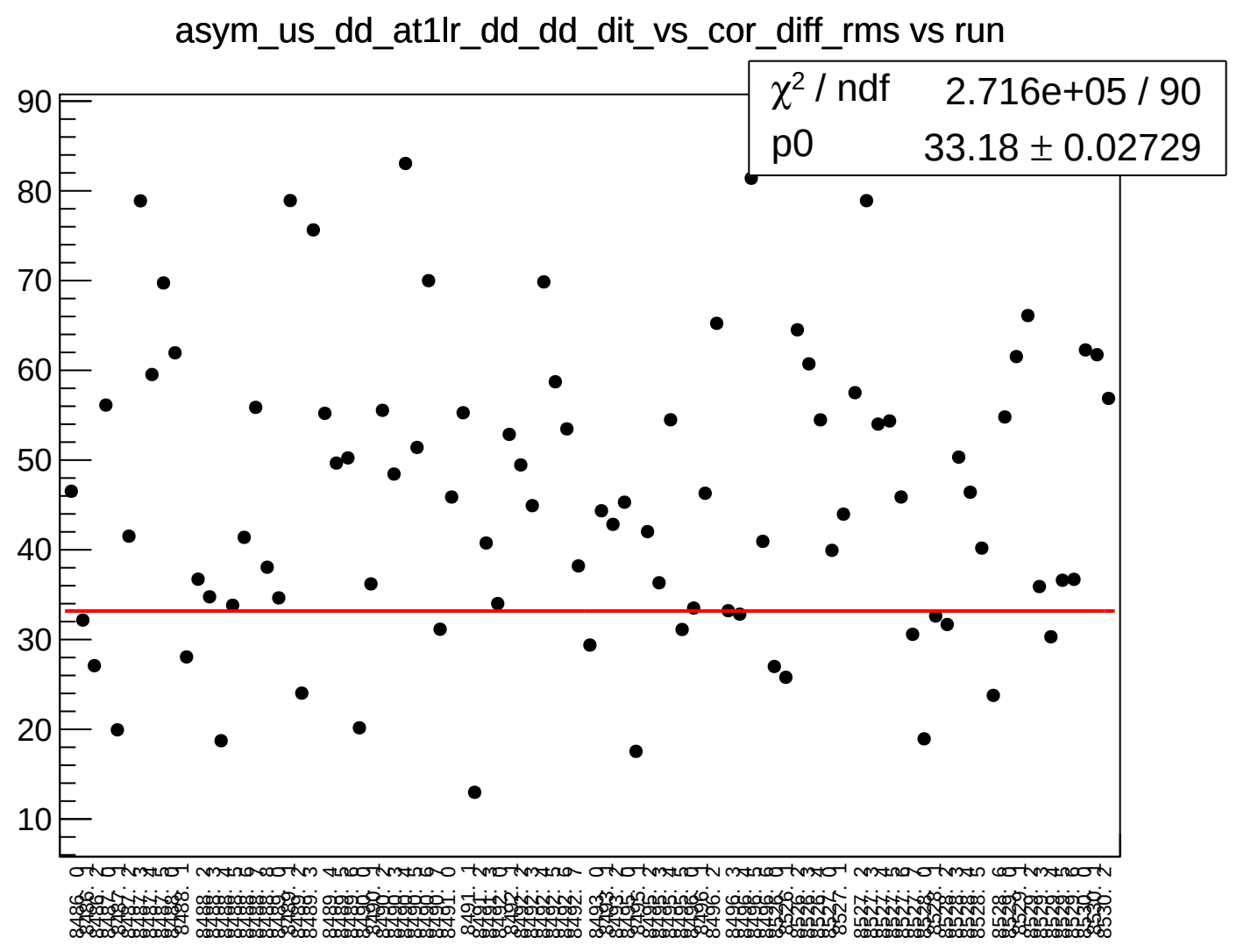

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 366.2 / 90
p0 2141 ± 1.619
2240
2220
2200
2180
2160
2140
2120
2100
2080
2060
2040

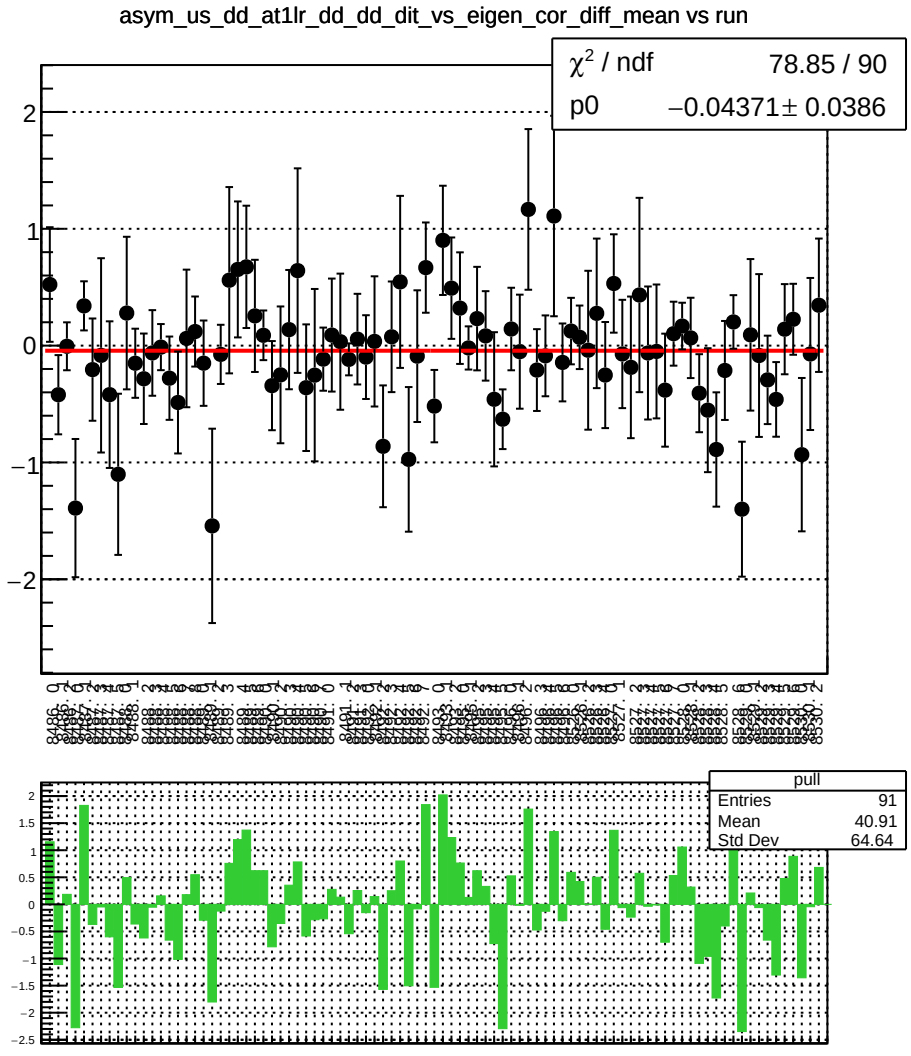

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 76.86 / 90
p0 1.418e−13 ± 1.546e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 91
Mean 36.06
Std Dev 44.9
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.04466
Std Dev 0.9179
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

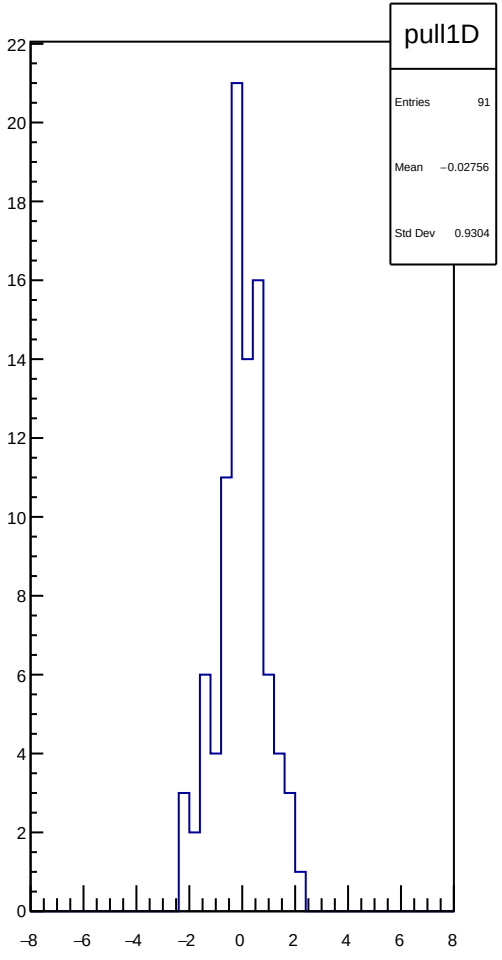

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.006e+06 / 90
p0 9.429e−11 ± 1.093e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

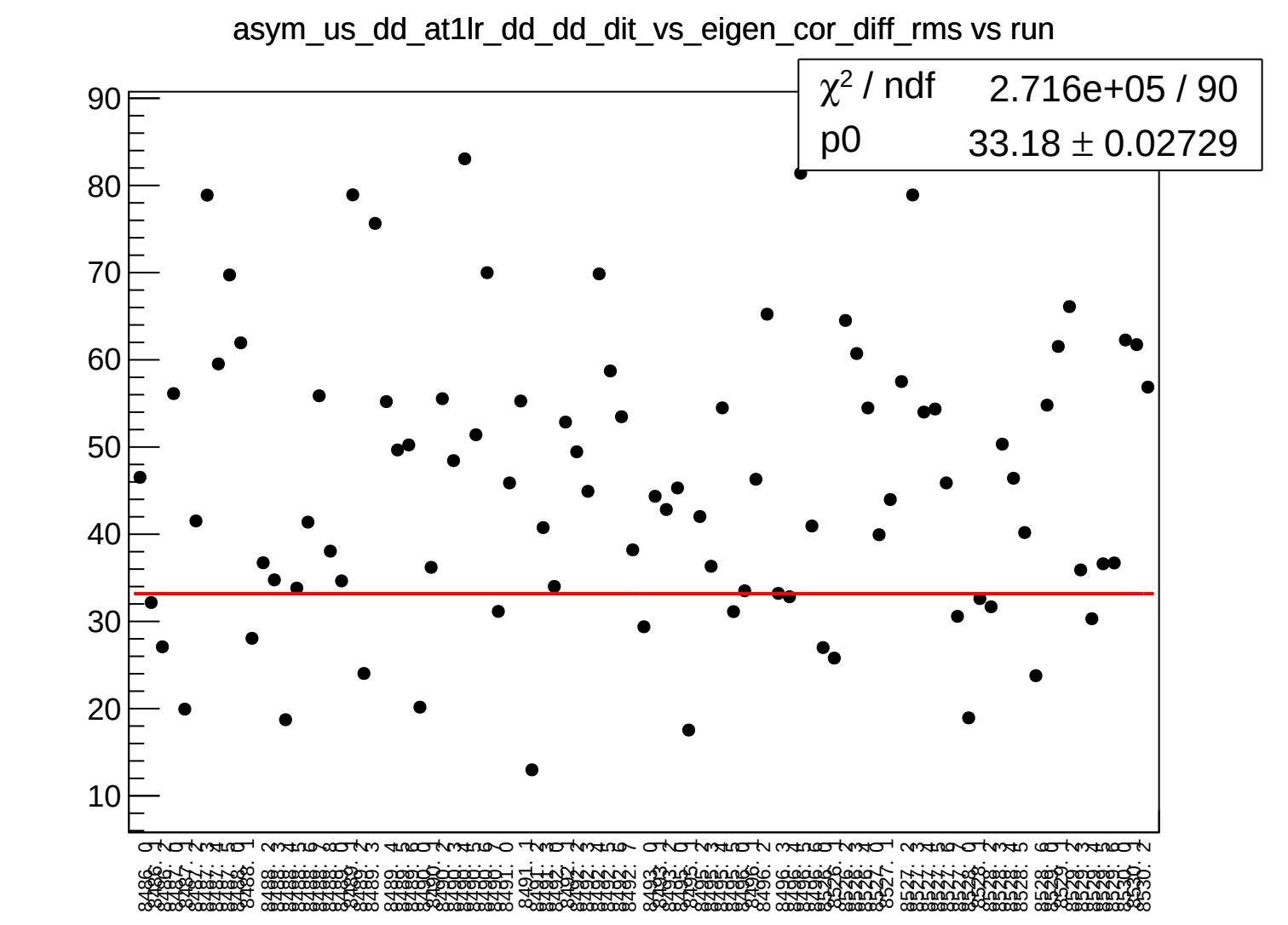

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 78.85 / 90
p0 −0.04371± 0.0386
pull
Entries 91
Mean 40.91
Std Dev 64.64

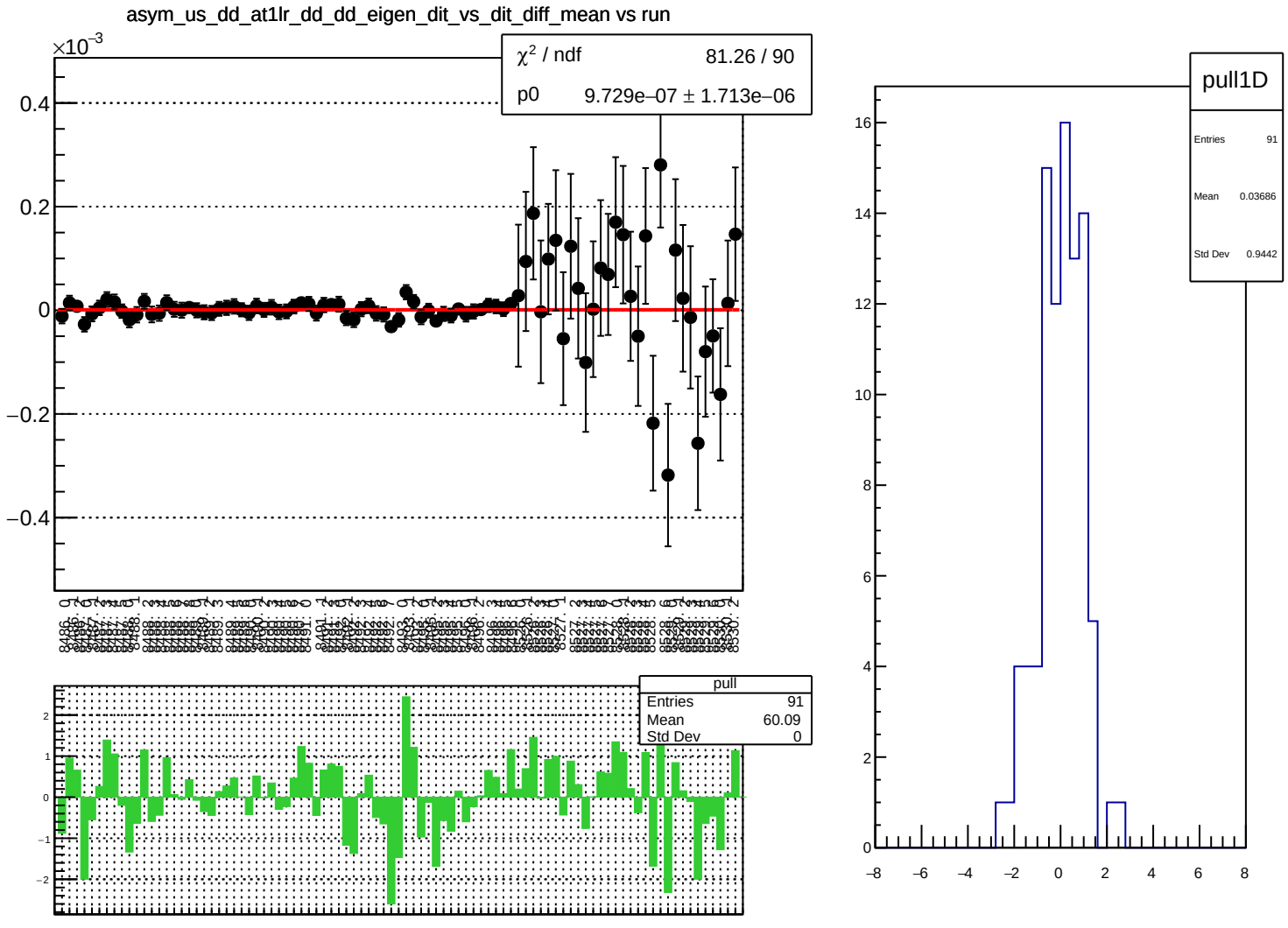

pull1D
Entries 91
Mean −0.02756
Std Dev 0.9304

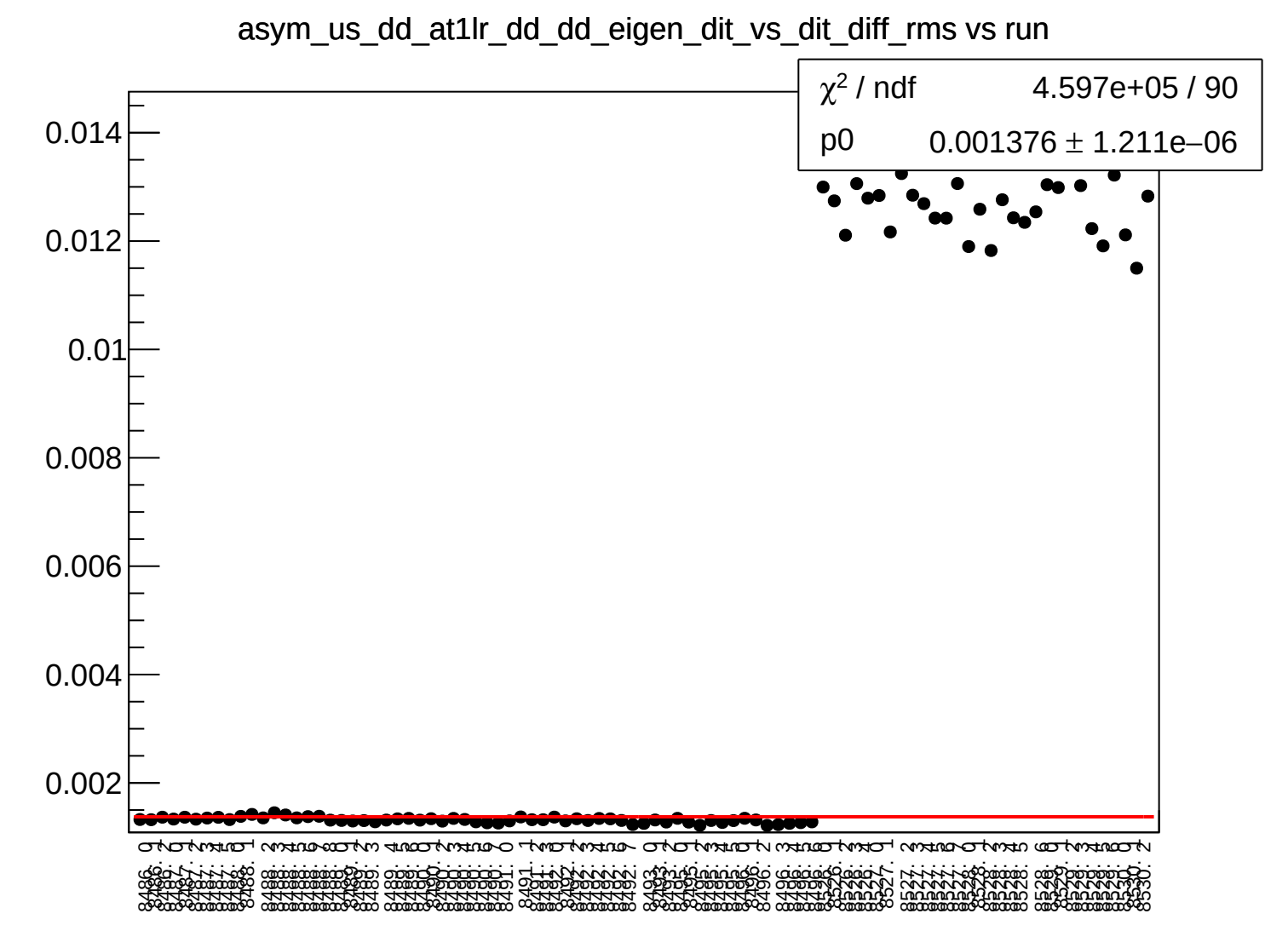

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.716e+05 / 90
p0 33.18 ± 0.02729
90
80
70
60
50
40
30
20
10

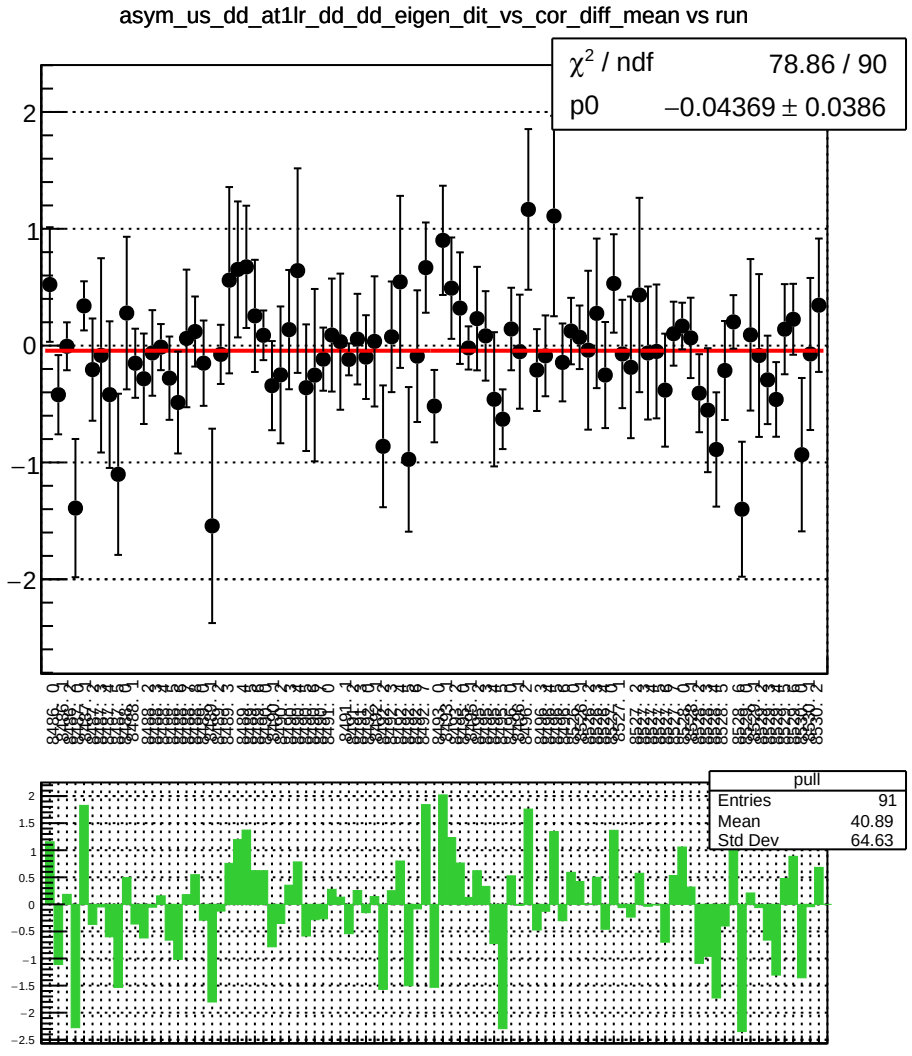

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.85 / 90
p0 −0.04371 ± 0.0386
pull
Entries 91
Mean 40.91
Std Dev 64.64

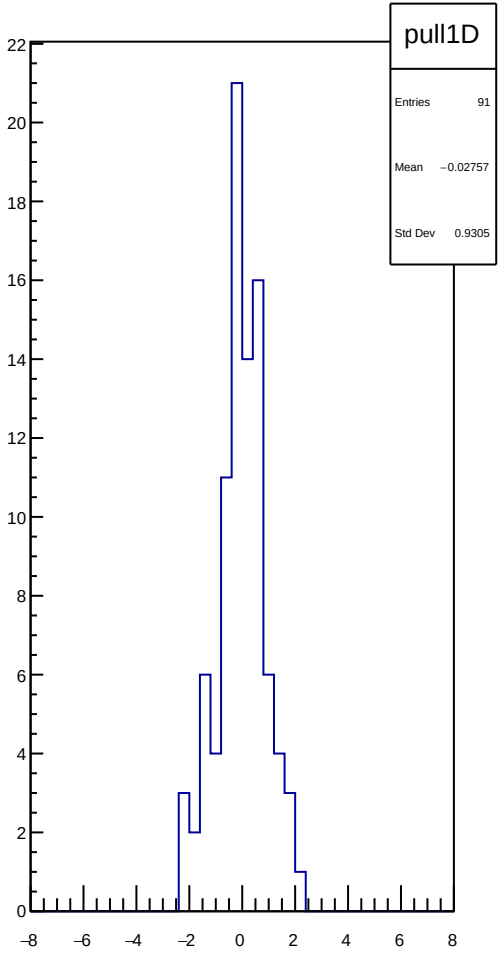

pull1D
Entries 91
Mean −0.02756
Std Dev 0.9304

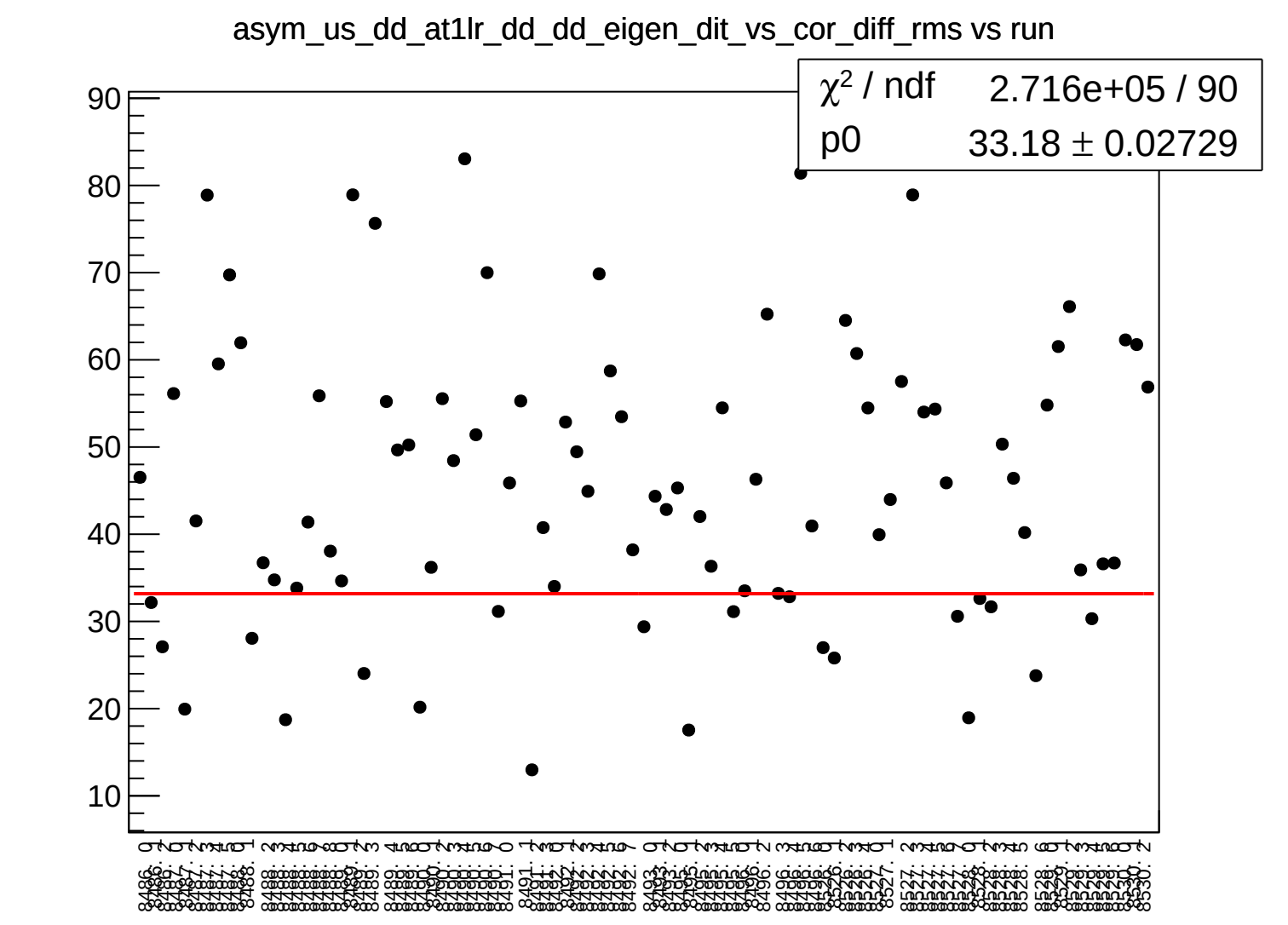

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.716e+05 / 90
p0 33.18 ± 0.02729
90
80
70
60
50
40
30
20
10

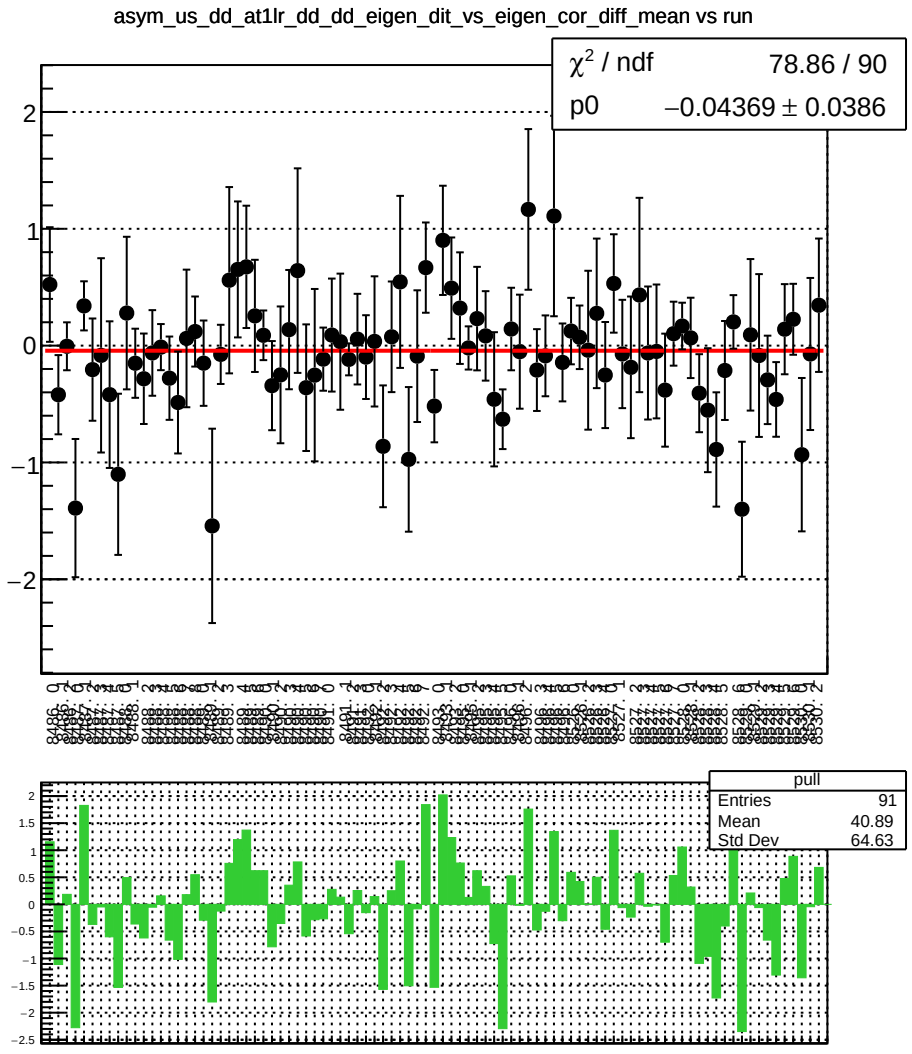

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.26 / 90
p0 9.729e−07 ± 1.713e−06
0.4
0.2
0
−0.2
−0.4
pull
Entries 91
Mean 60.09
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.03686
Std Dev 0.9442
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

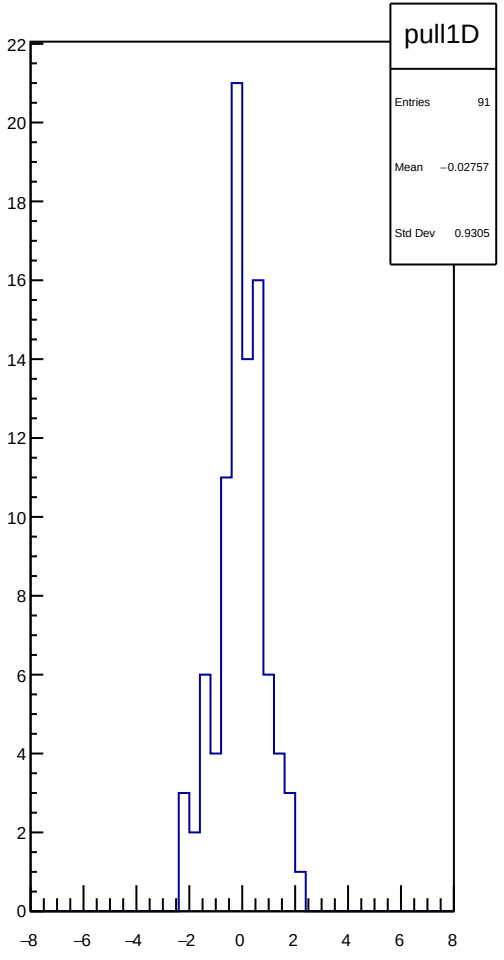

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.597e+05 / 90
p0 0.001376 ± 1.211e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002

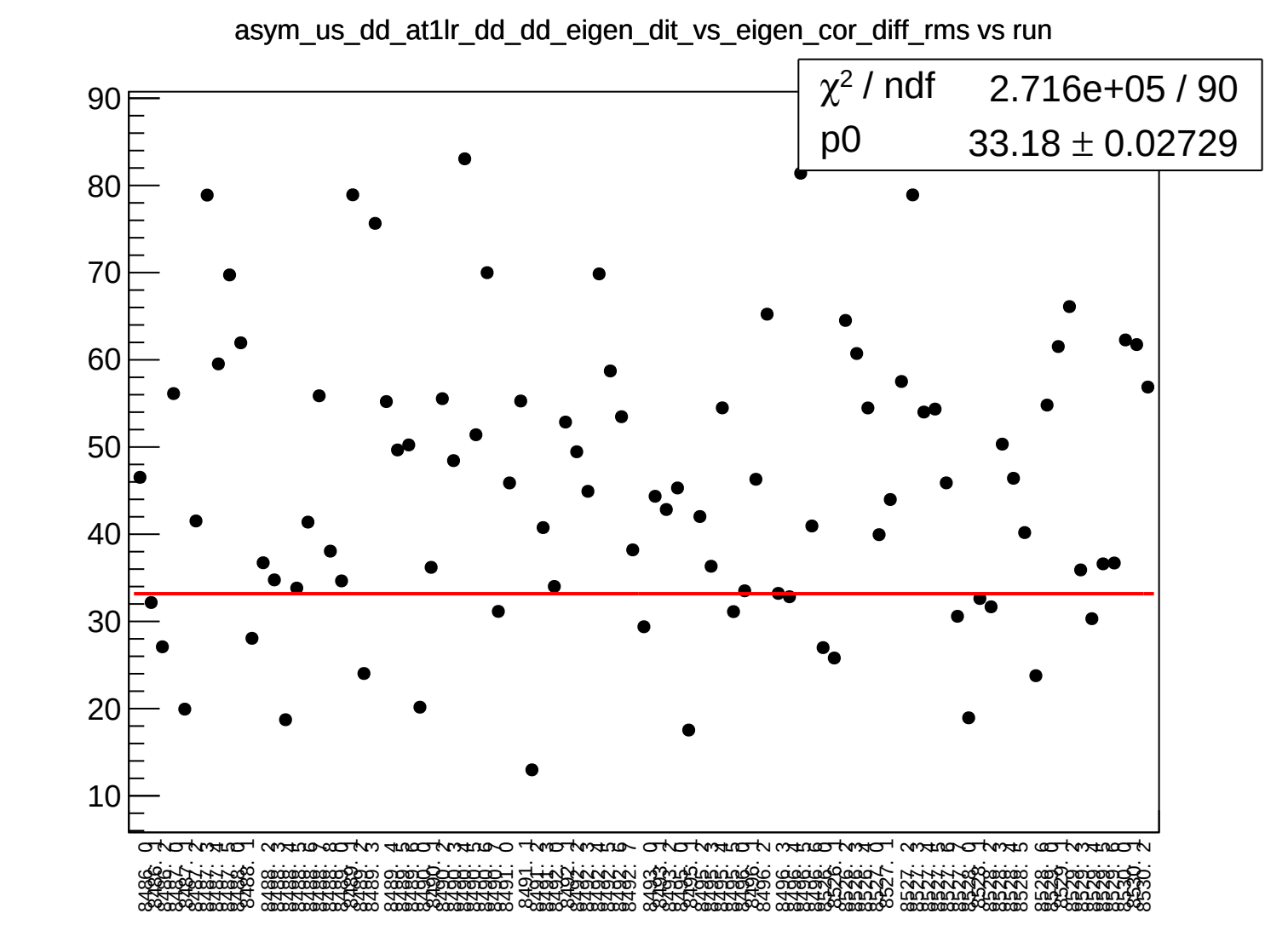

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.86 / 90
p0 −0.04369 ± 0.0386
pull
Entries 91
Mean 40.89
Std Dev 64.63

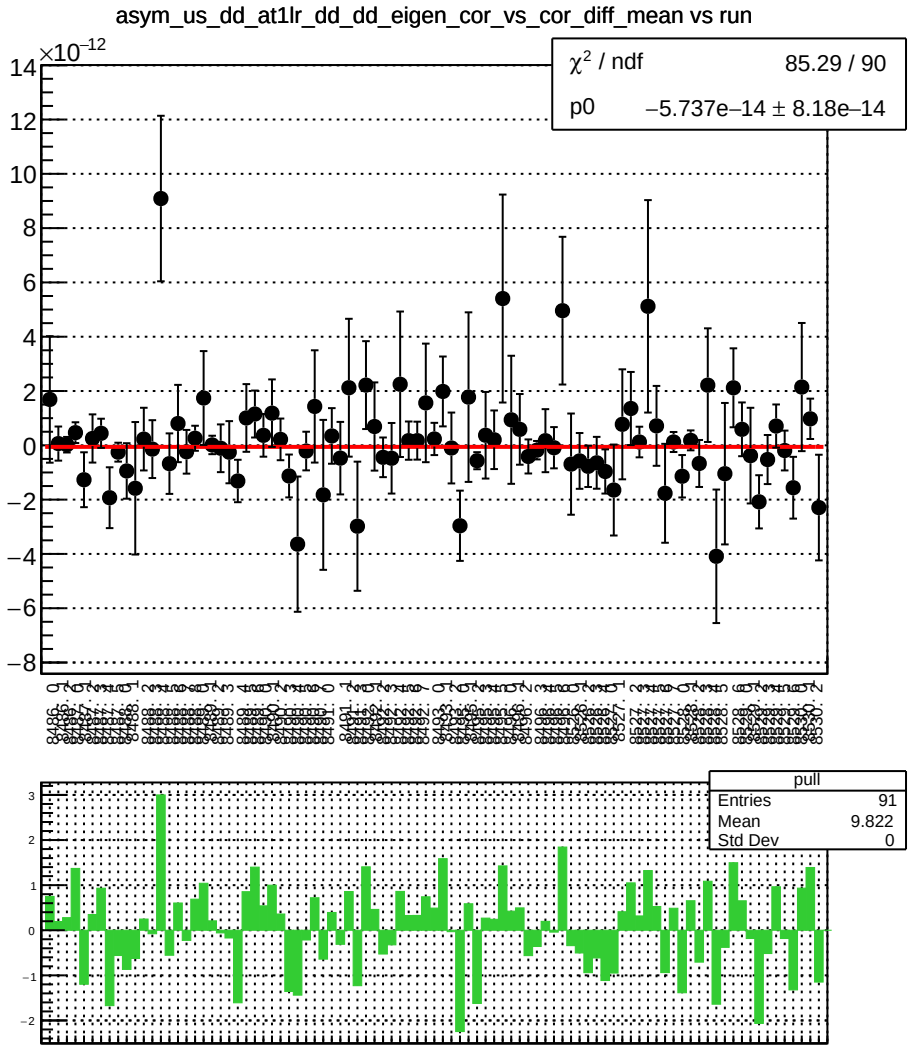

pull1D
Entries 91
Mean −0.02757
Std Dev 0.9305

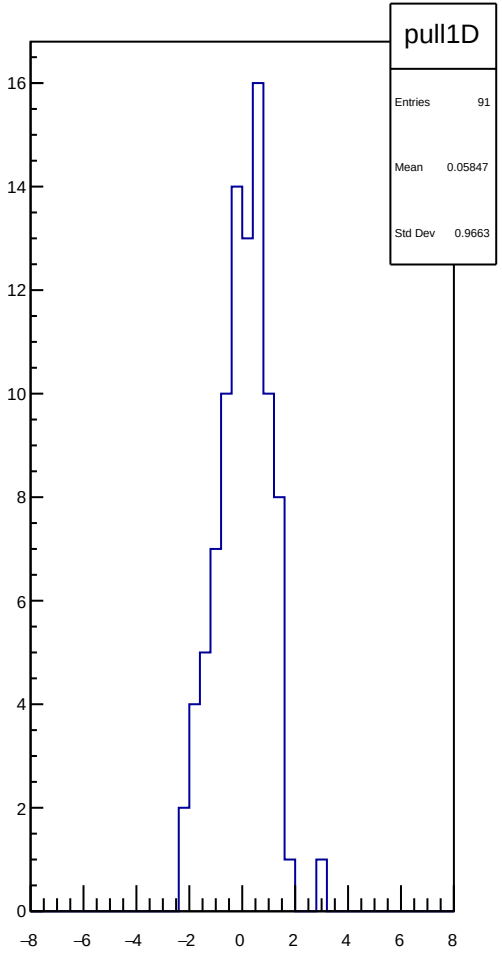

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.716e+05 / 90
p0 33.18 ± 0.02729
90
80
70
60
50
40
30
20
10

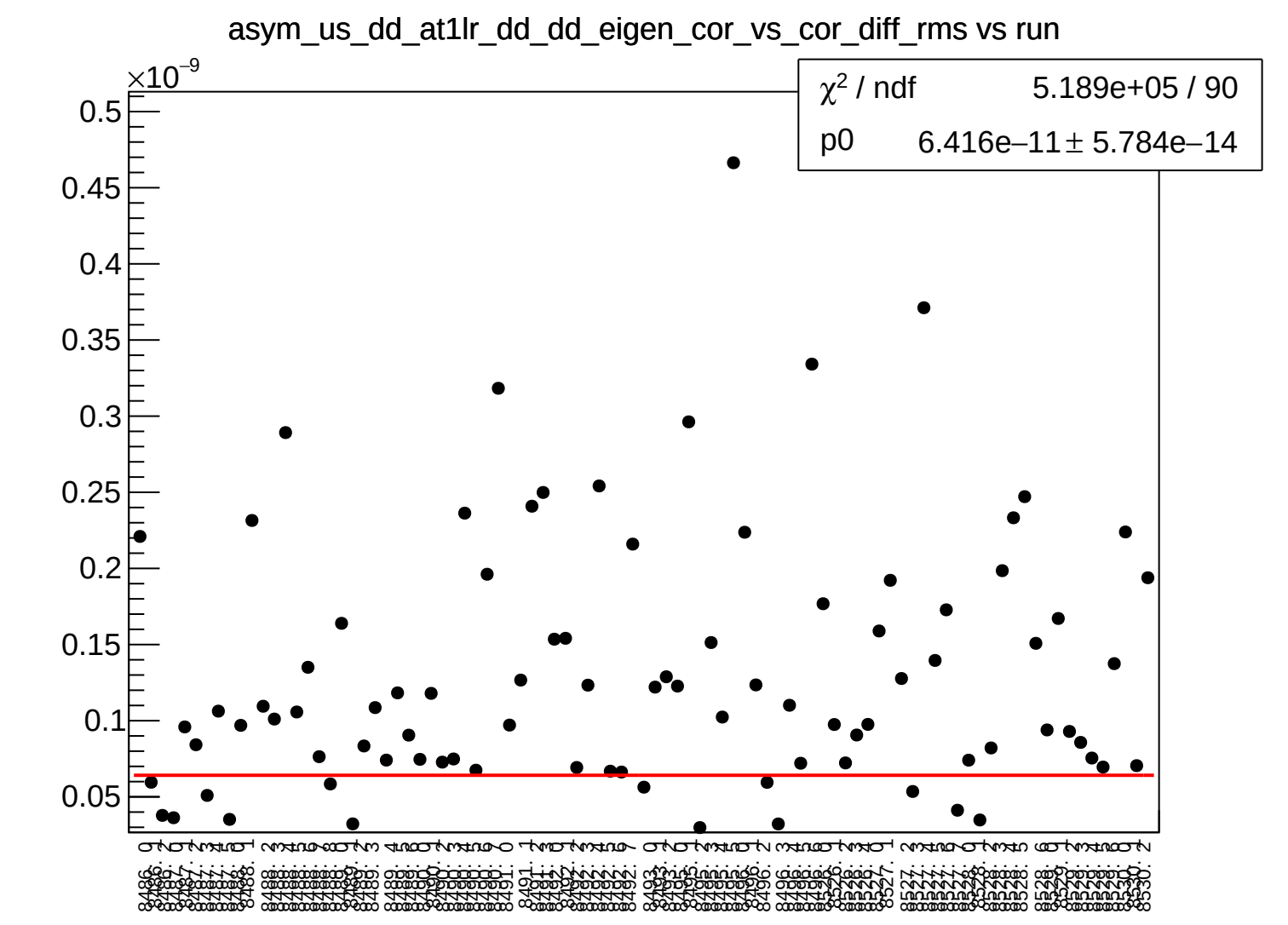

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.86 / 90
p0 −0.04369 ± 0.0386
pull
Entries 91
Mean 40.89
Std Dev 64.63

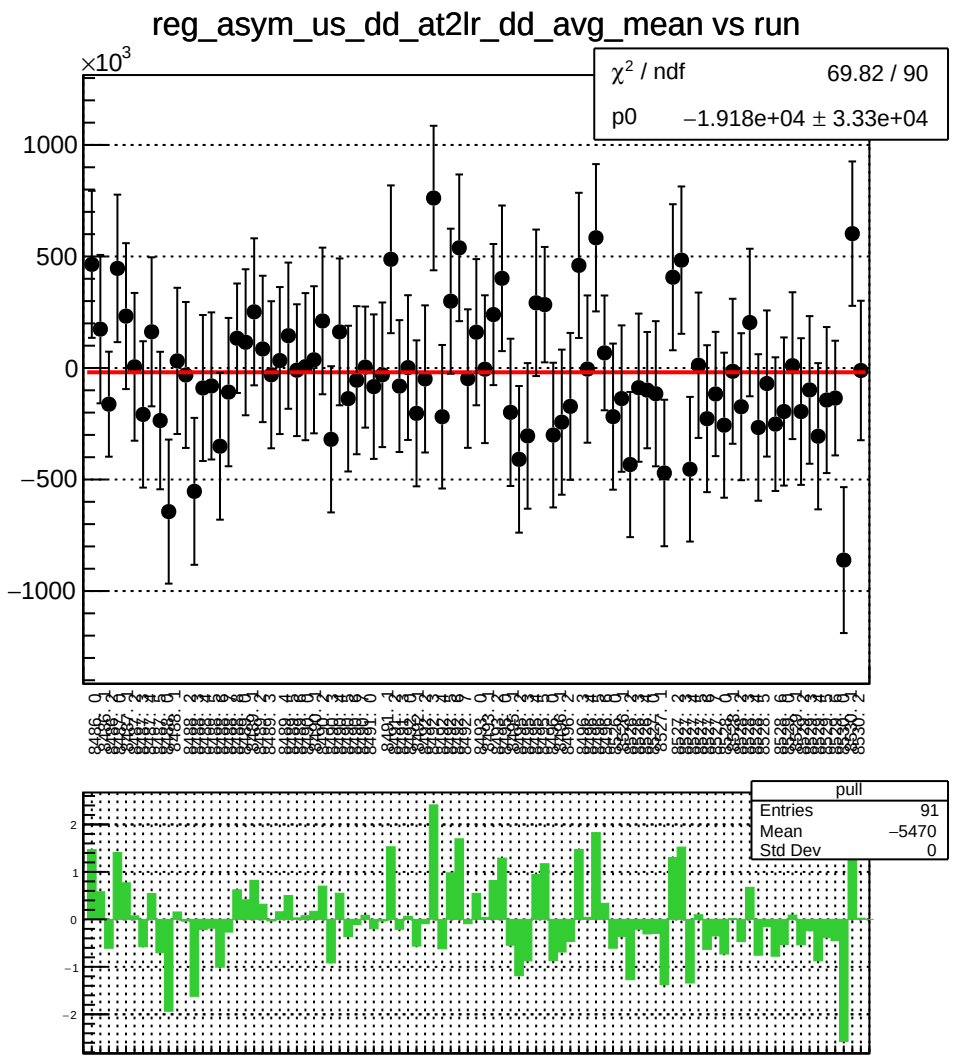

pull1D
Entries 91
Mean −0.02757
Std Dev 0.9305

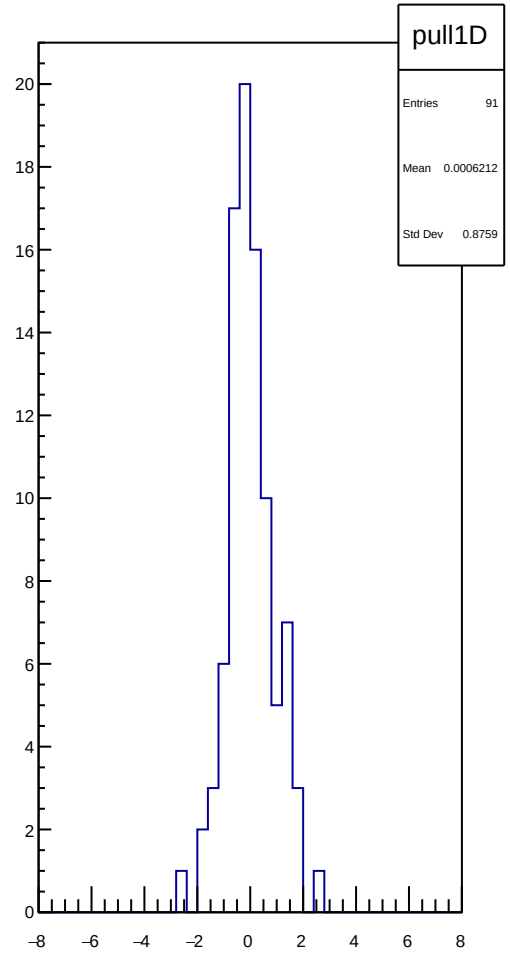

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.716e+05 / 90
p0 33.18 ± 0.02729
90
80
70
60
50
40
30
20
10

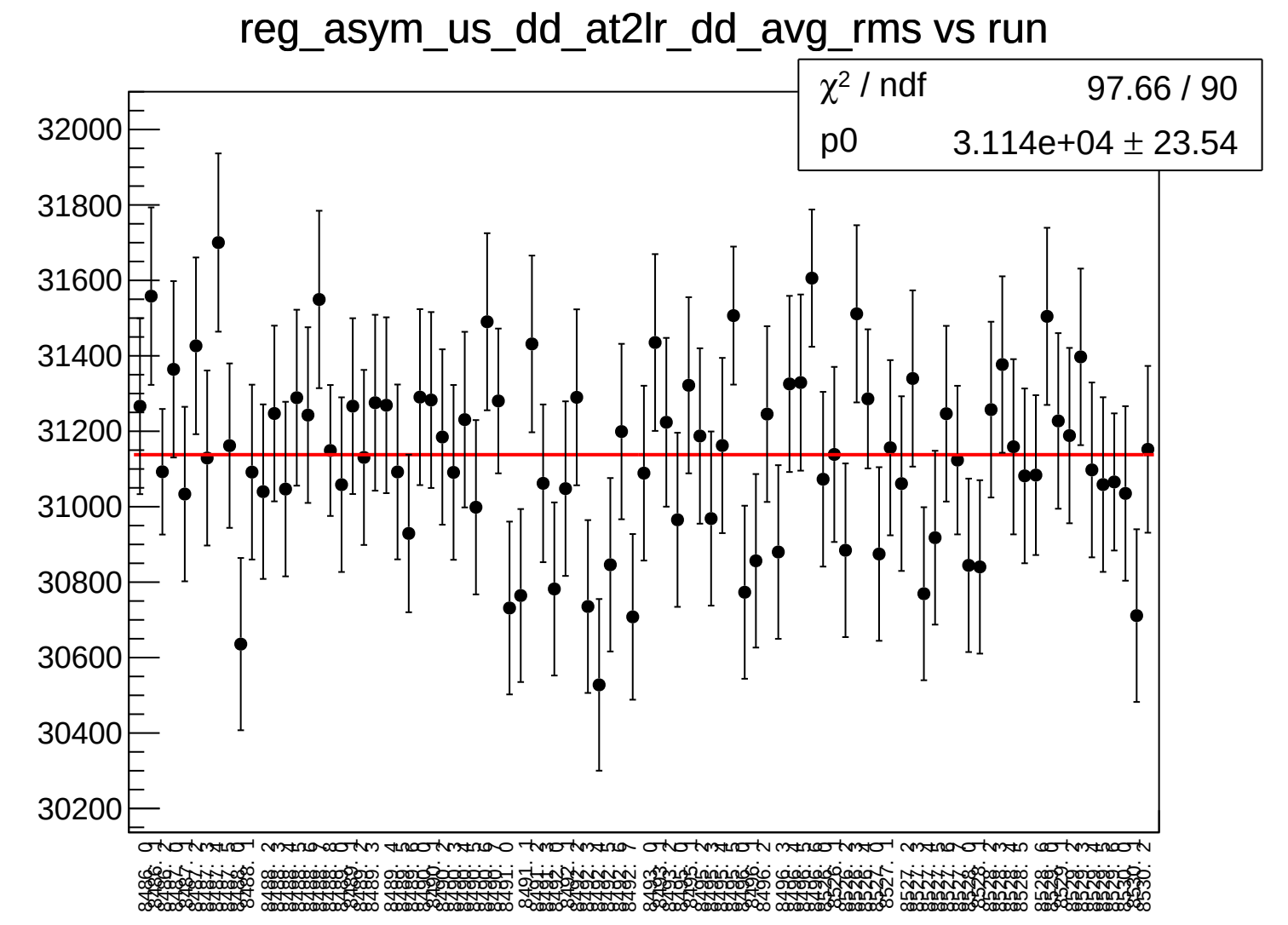

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.29 / 90
p0 −5.737e−14 ± 8.18e−14
pull
Entries 91
Mean 9.822
Std Dev 0

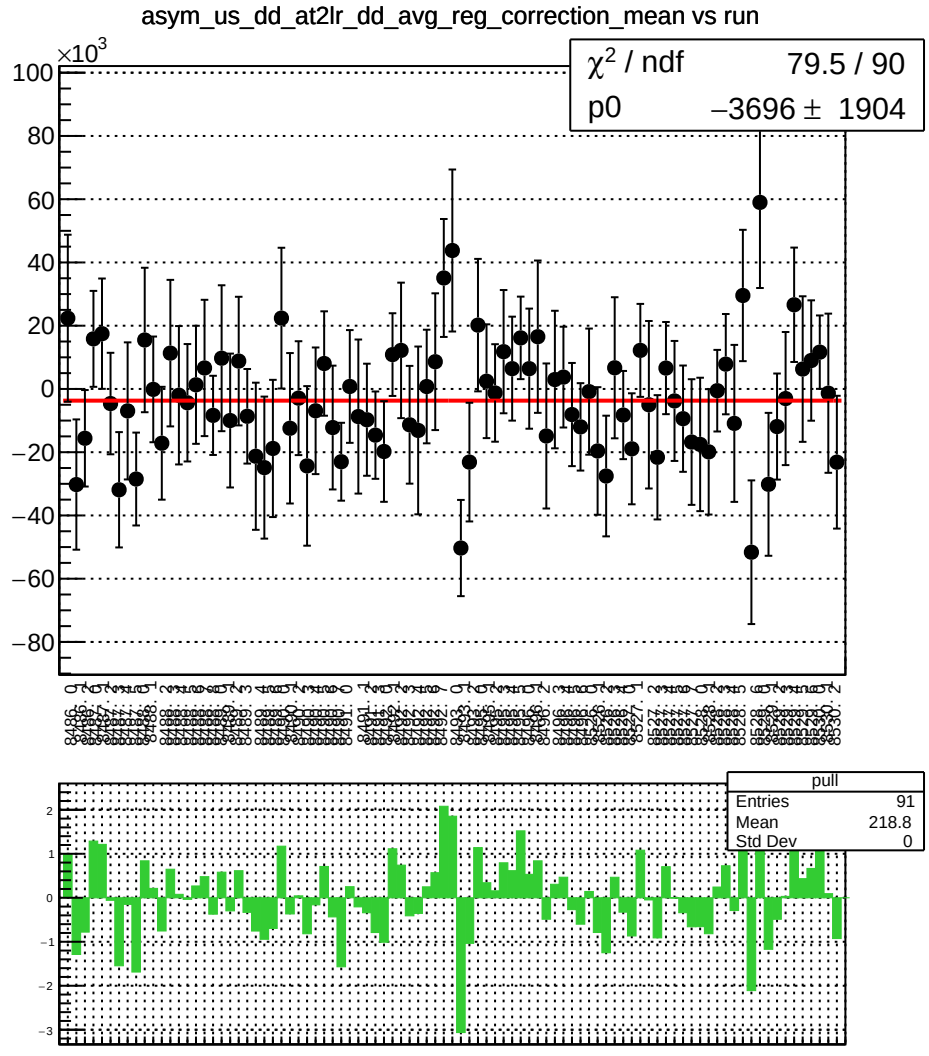

pull1D
Entries 91
Mean 0.05847
Std Dev 0.9663

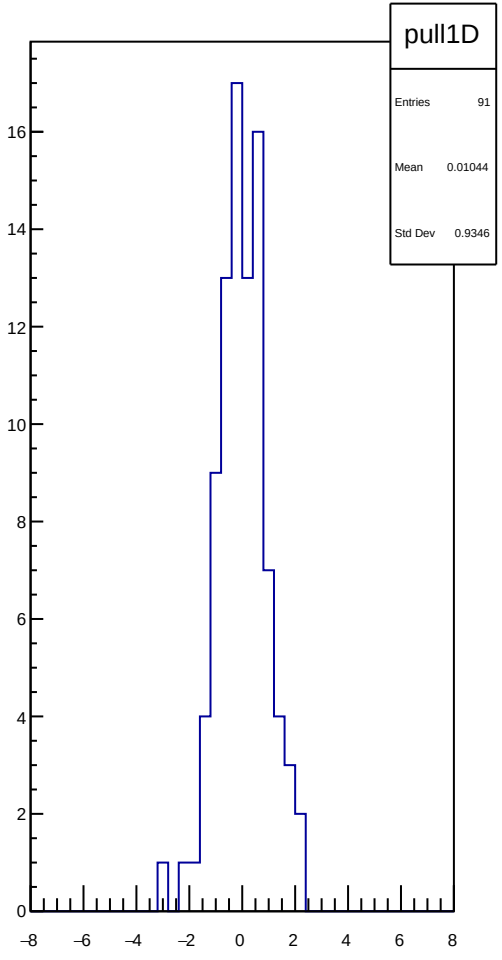

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.189e+05 / 90
p0 6.416e−11 ± 5.784e−14
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

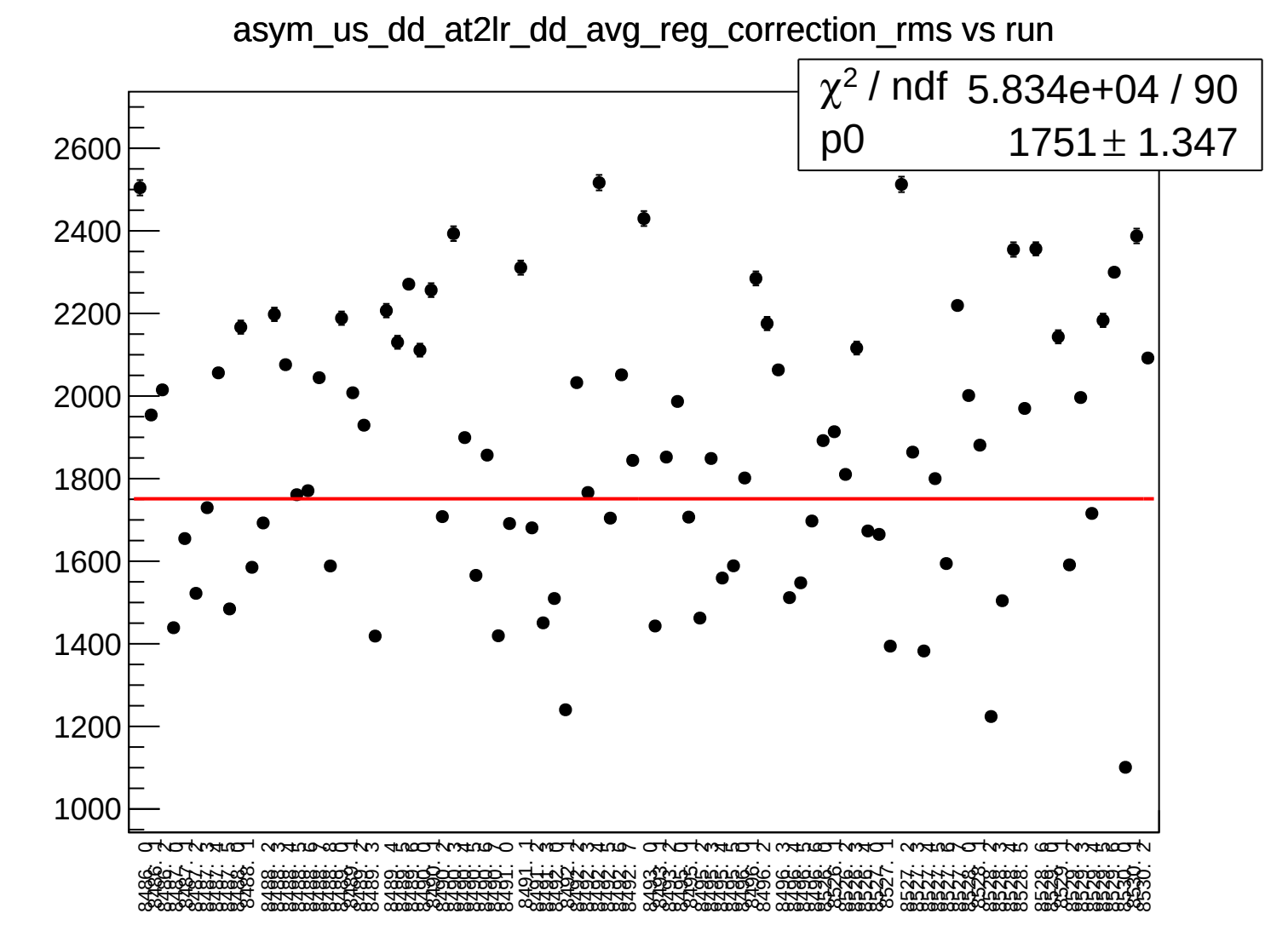

reg_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 69.82 / 90
p0 −1.918e+04 ± 3.33e+04
1000
500
0
−500
−1000
pull
Entries 91
Mean −5470
Std Dev 0
2
1
0
−1
−2

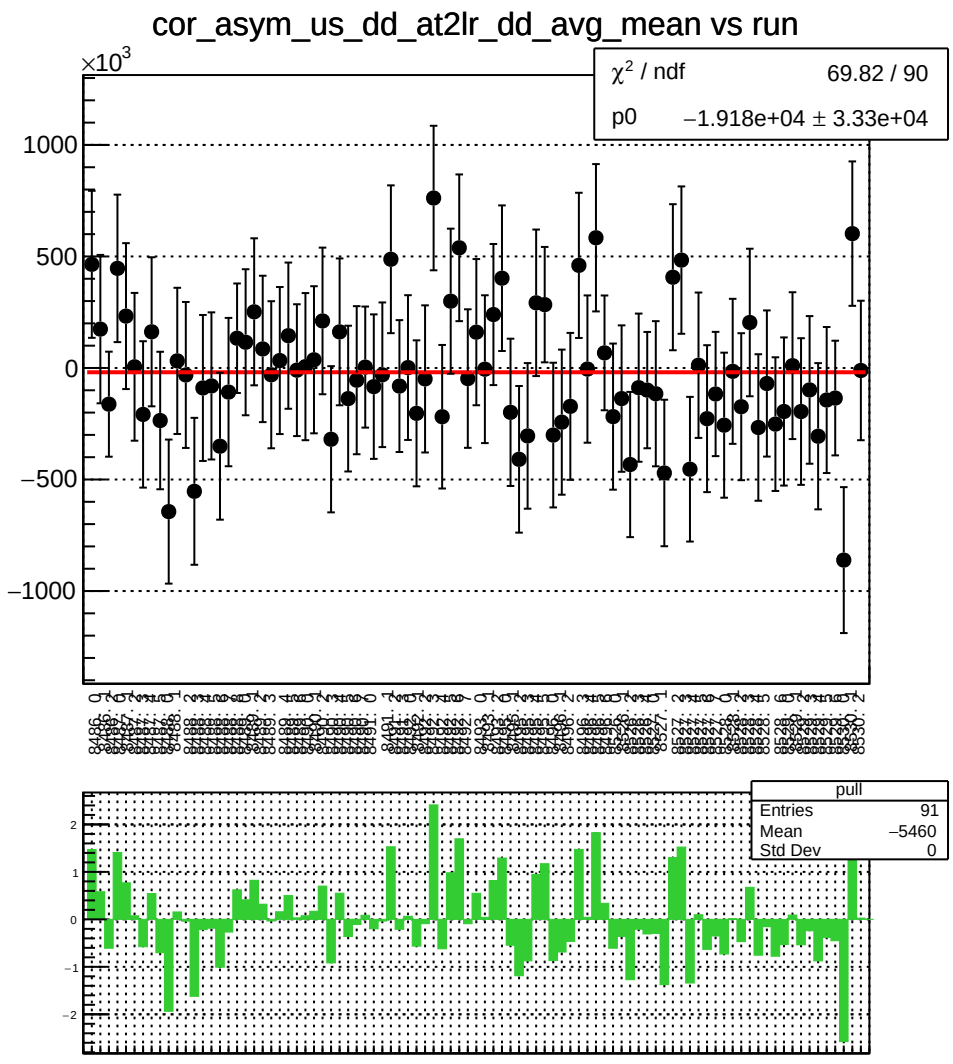

pull1D
Entries 91
Mean 0.0006212
Std Dev 0.8759
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

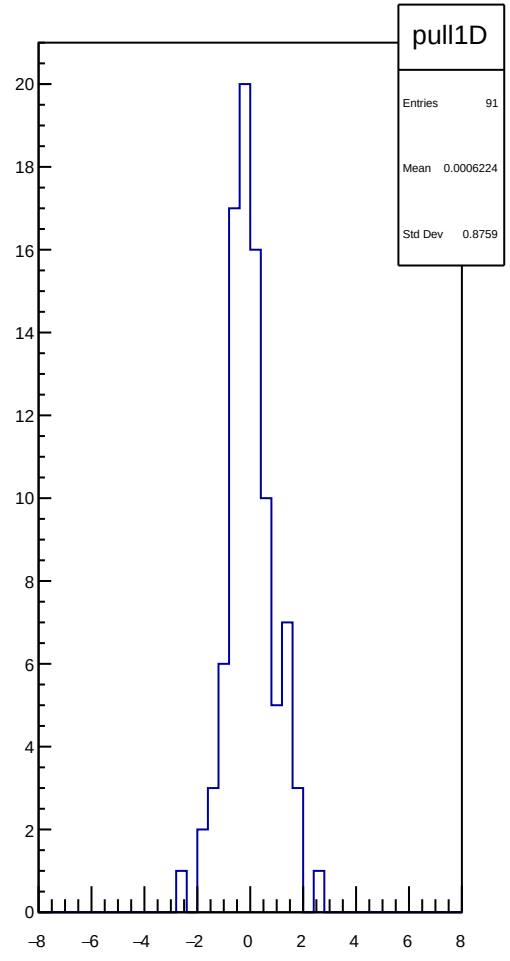

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 97.66 / 90
p0 3.114e+04 ± 23.54
32000
31800
31600
31400
31200
31000
30800
30600
30400
30200

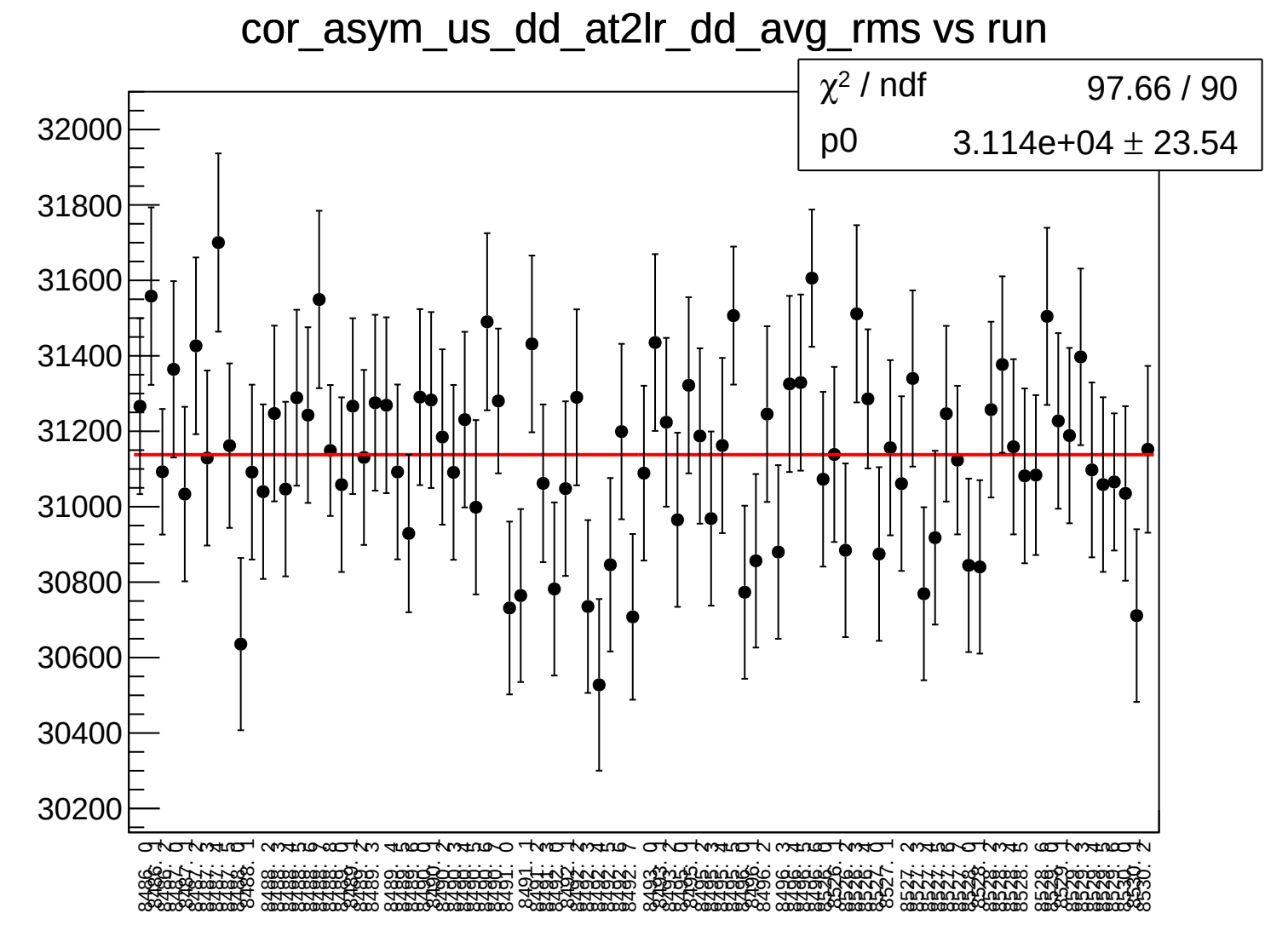

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 79.5 / 90
p0 −3696 ± 1904
pull
Entries 91
Mean 218.8
Std Dev 0

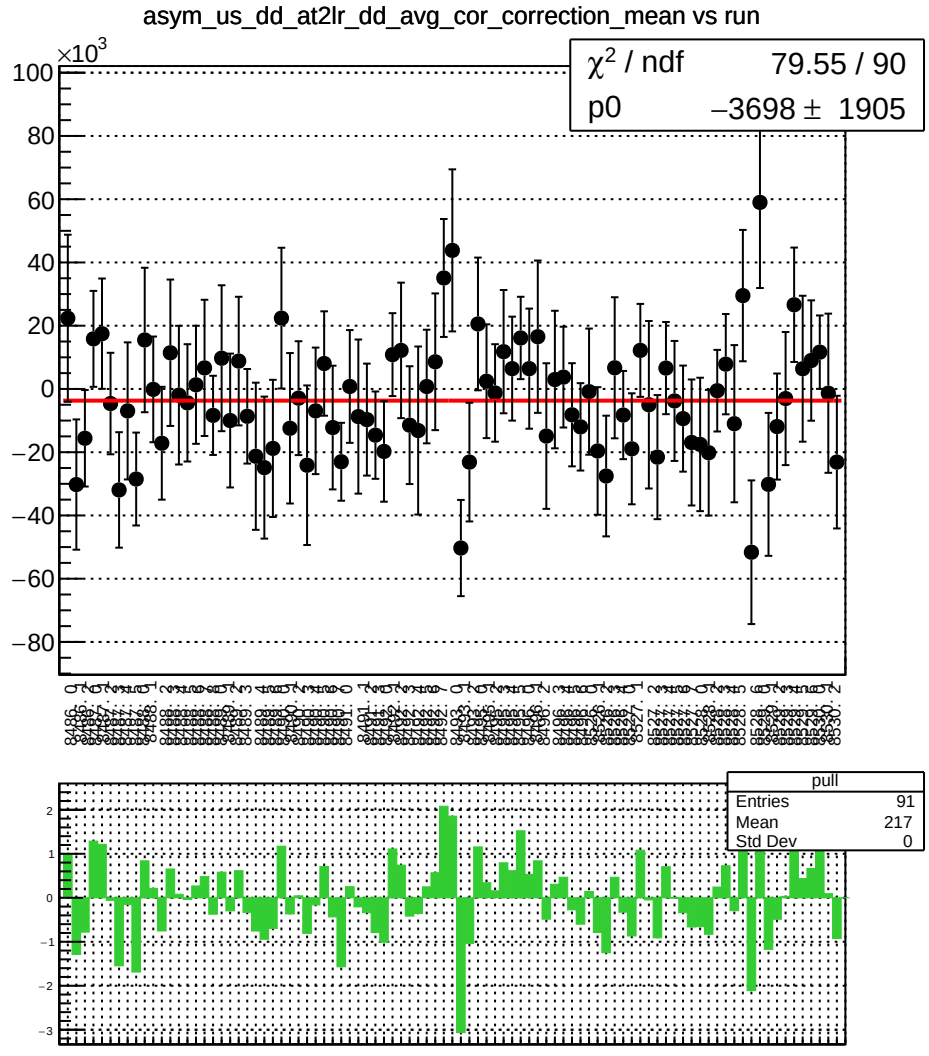

pull1D
Entries 91
Mean 0.01044
Std Dev 0.9346

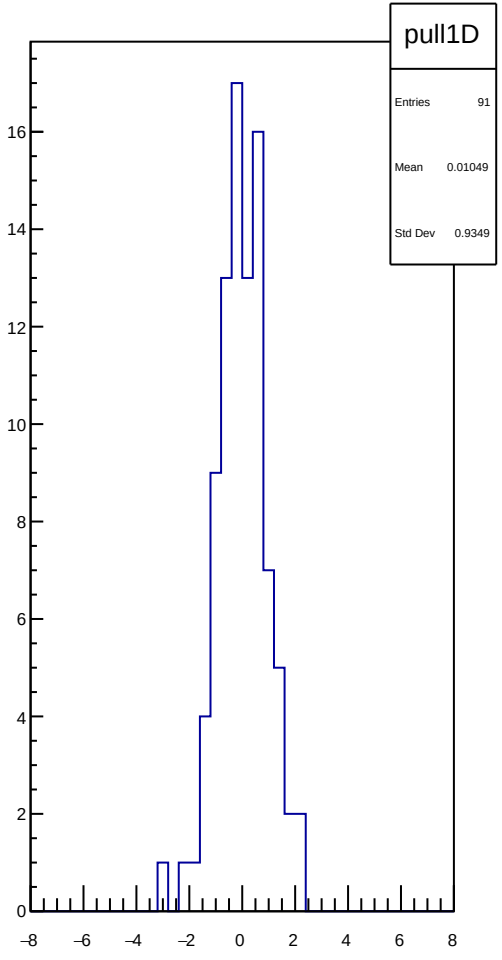

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ² / ndf 5.834e+04 / 90
p0 1751 ± 1.347
2600
2400
2200
2000
1800
1600
1400
1200
1000

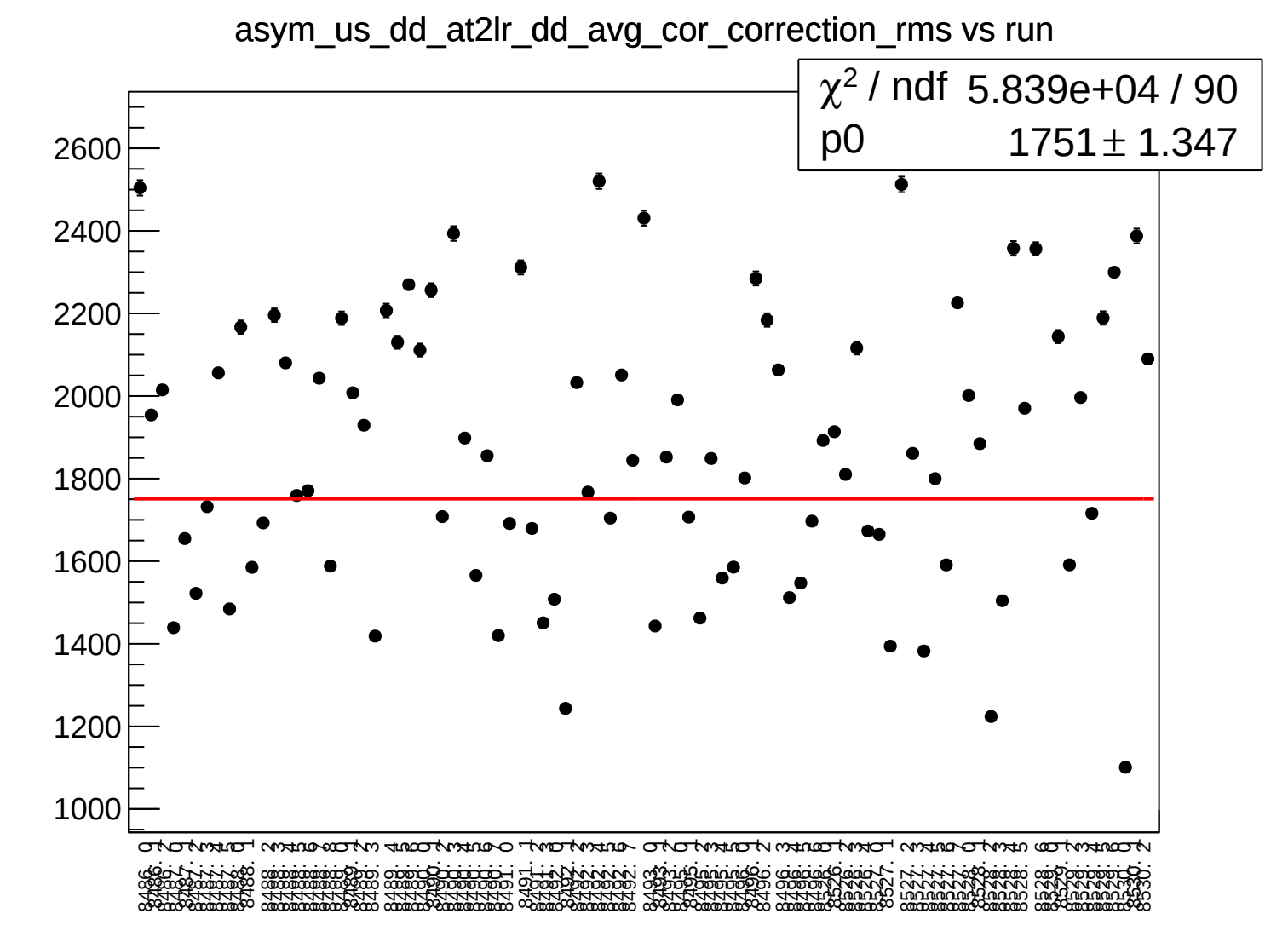

cor_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 69.82 / 90
p0 −1.918e+04 ± 3.33e+04
1000
500
0
−500
−1000
pull
Entries 91
Mean −5460
Std Dev 0
2
1
0
−1
−2

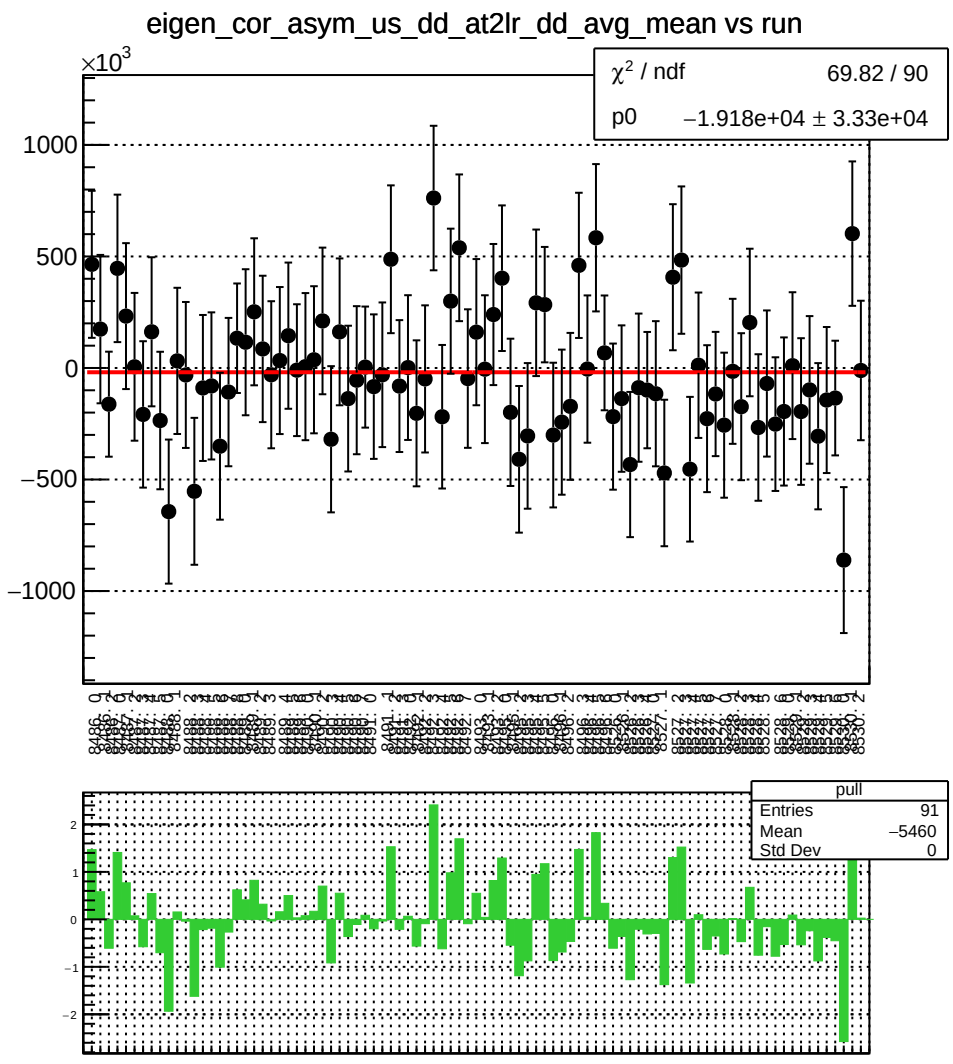

pull1D
Entries 91
Mean 0.0006224
Std Dev 0.8759
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

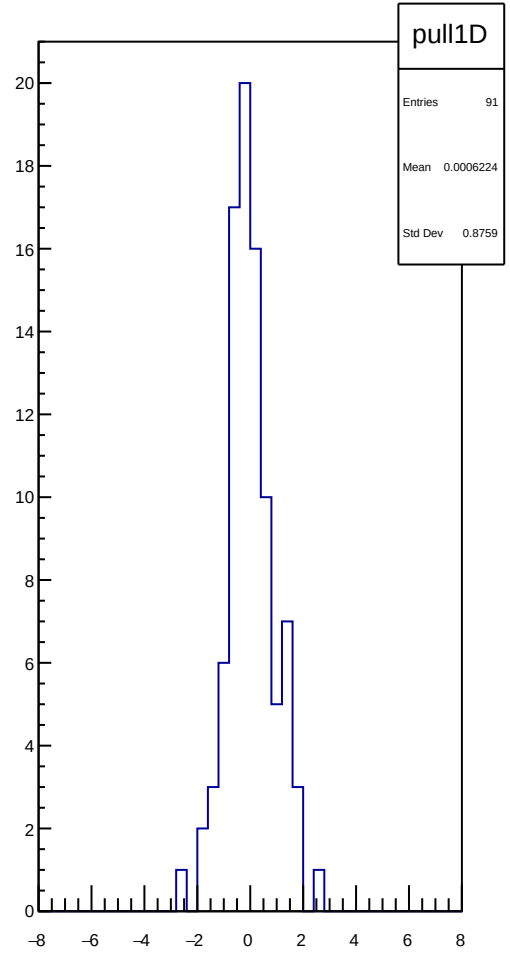

cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 97.66 / 90
p0 3.114e+04 ± 23.54
32000
31800
31600
31400
31200
31000
30800
30600
30400
30200

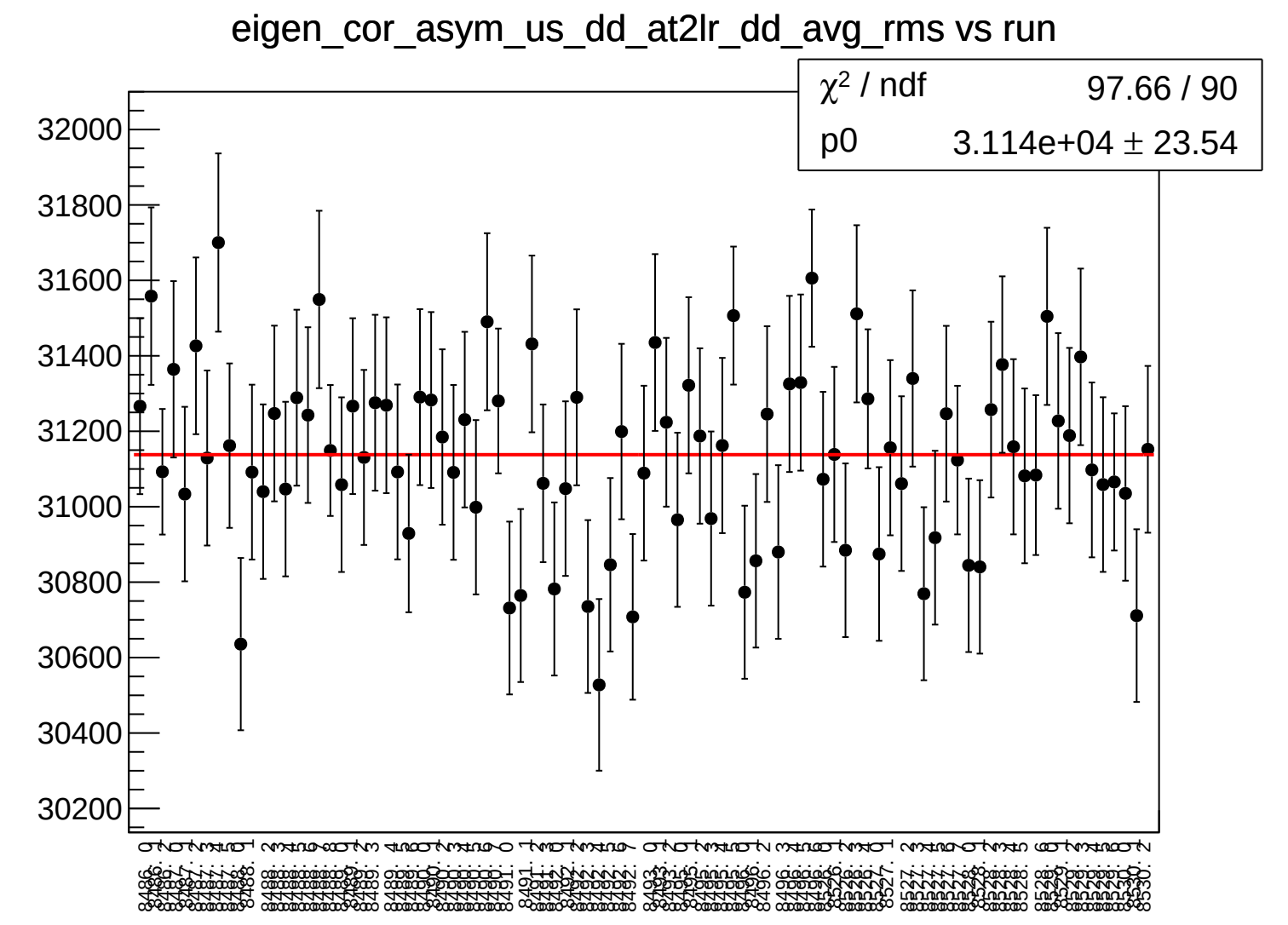

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 79.55 / 90
p0 −3698 ± 1905
pull
Entries 91
Mean 217
Std Dev 0

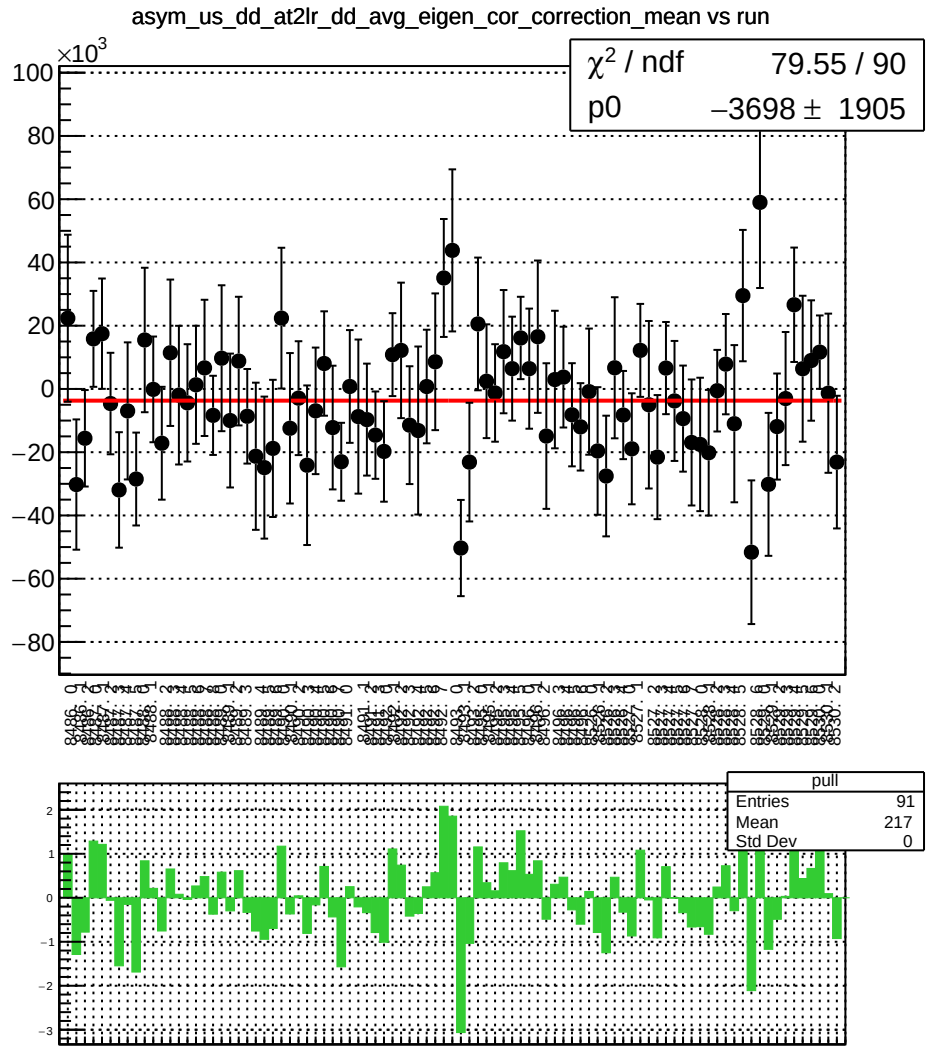

pull1D
Entries 91
Mean 0.01049
Std Dev 0.9349

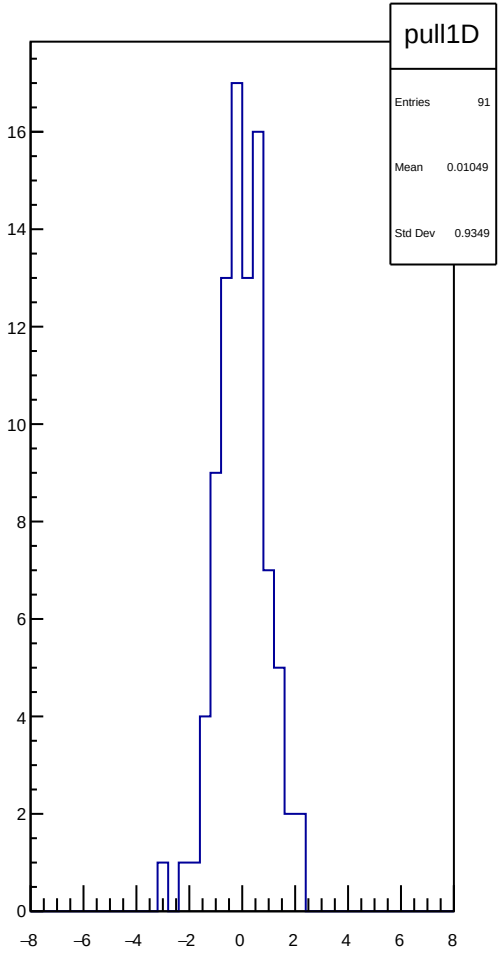

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ² / ndf 5.839e+04 / 90
p0 1751 ± 1.347
2600
2400
2200
2000
1800
1600
1400
1200
1000

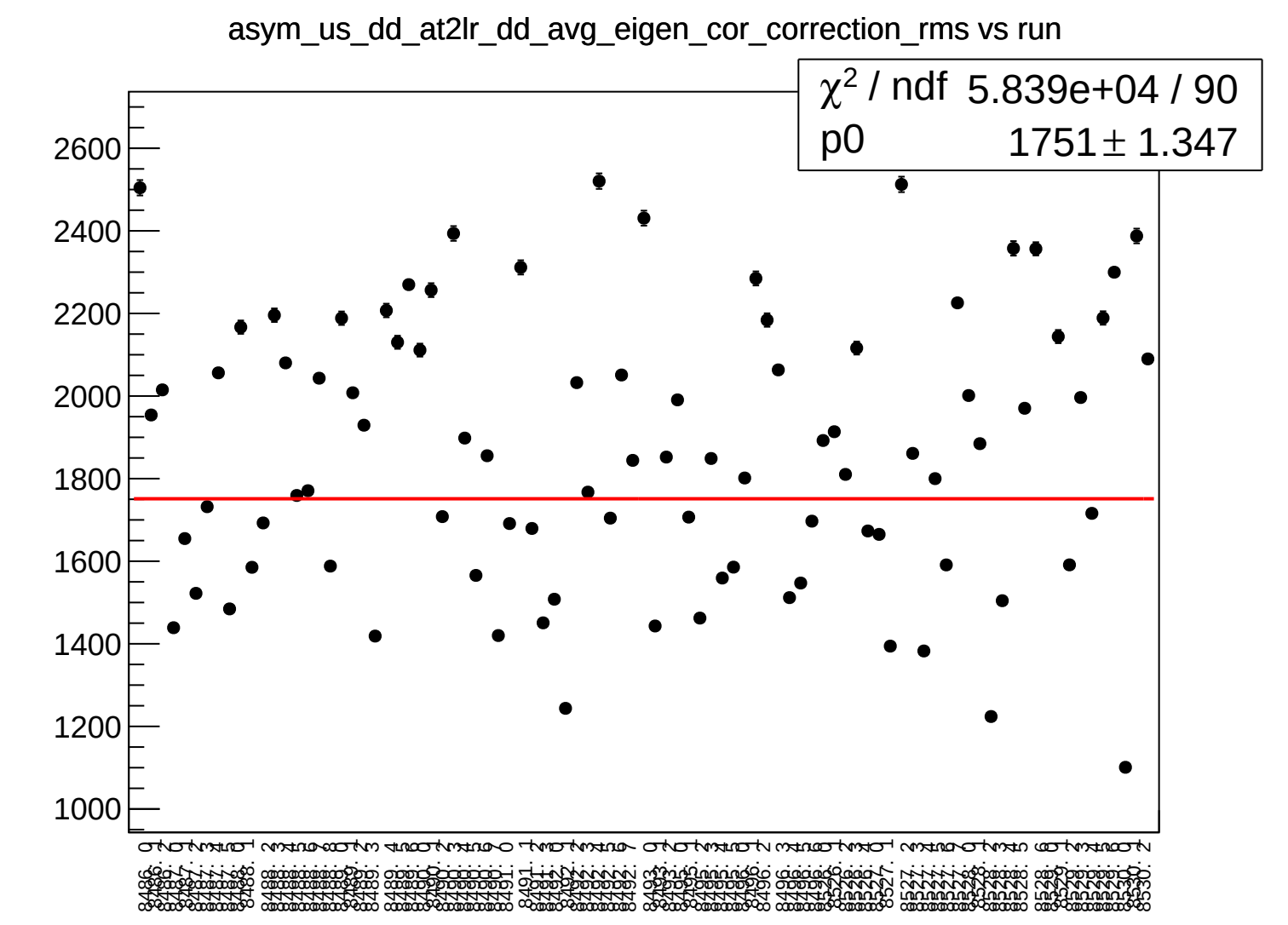

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 69.82 / 90
p0 −1.918e+04 ± 3.33e+04
1000
500
0
−500
−1000
pull
Entries 91
Mean −5460
Std Dev 0
2
1
0
−1
−2

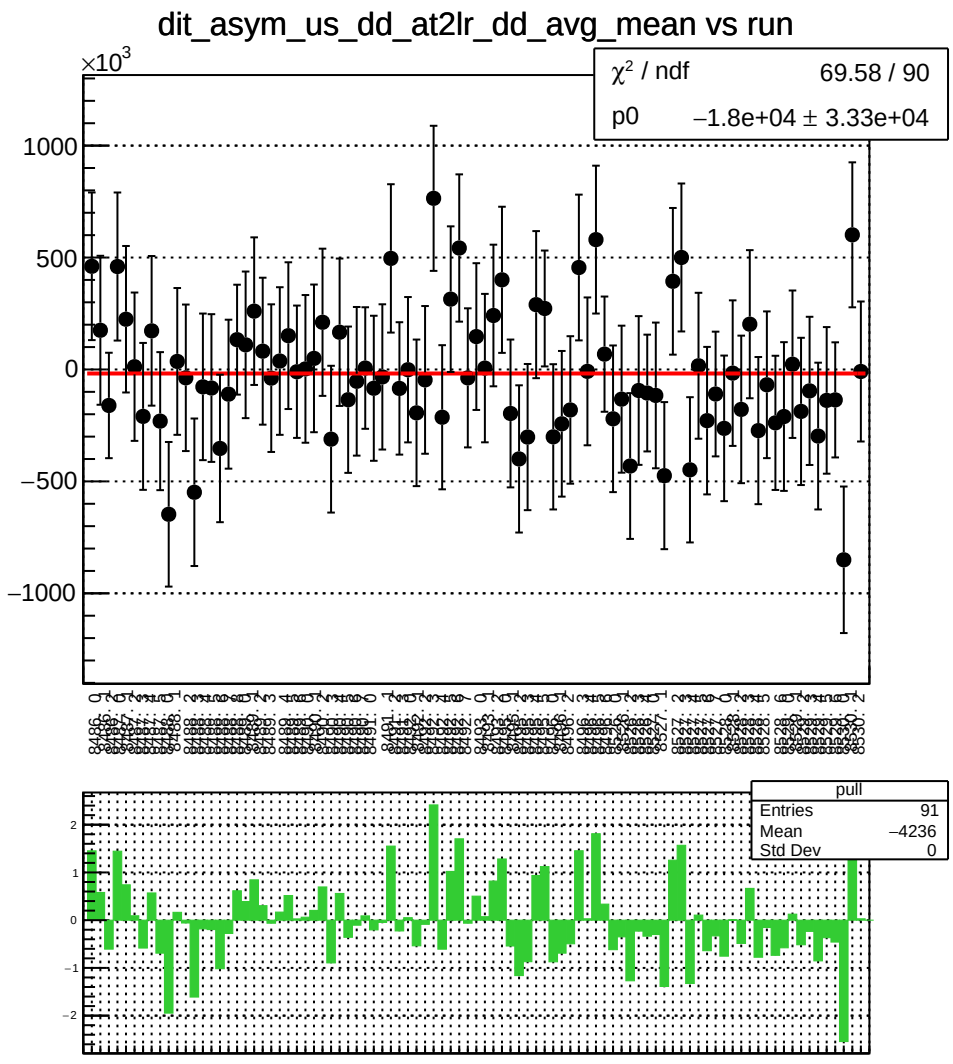

pull1D
Entries 91
Mean 0.0006224
Std Dev 0.8759
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

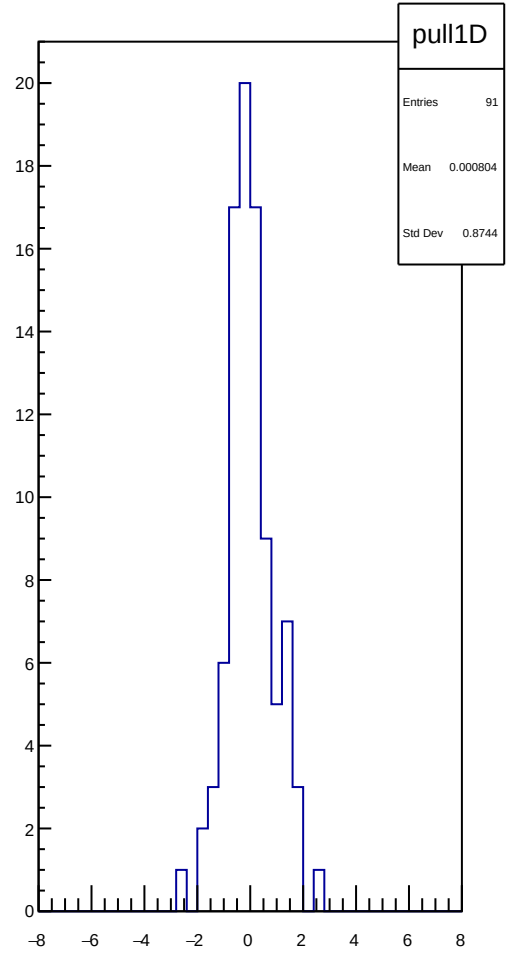

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 97.66 / 90
p0 3.114e+04 ± 23.54
32000
31800
31600
31400
31200
31000
30800
30600
30400
30200

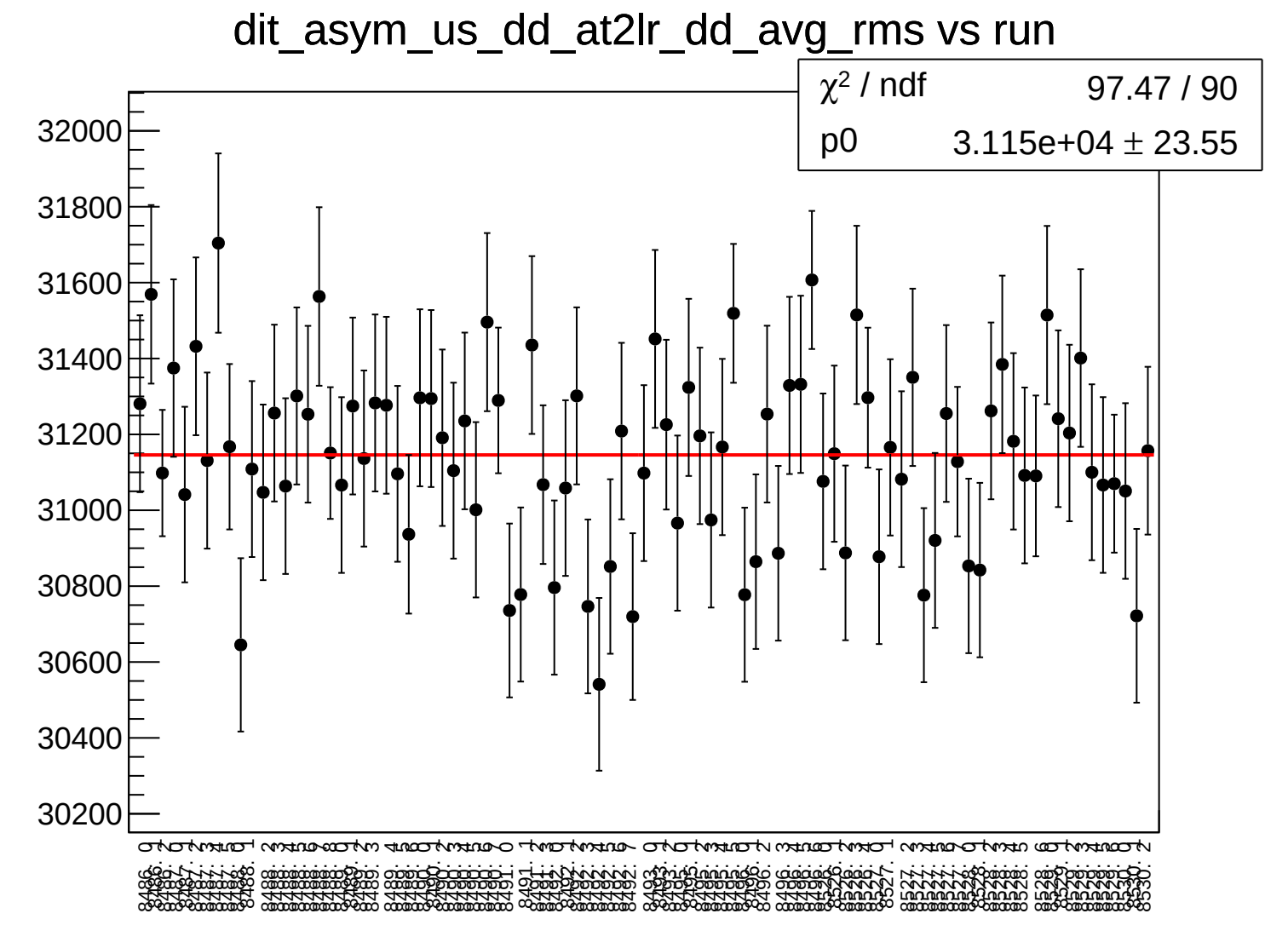

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 79.55 / 90
p0 −3698 ± 1905
pull
Entries 91
Mean 217
Std Dev 0

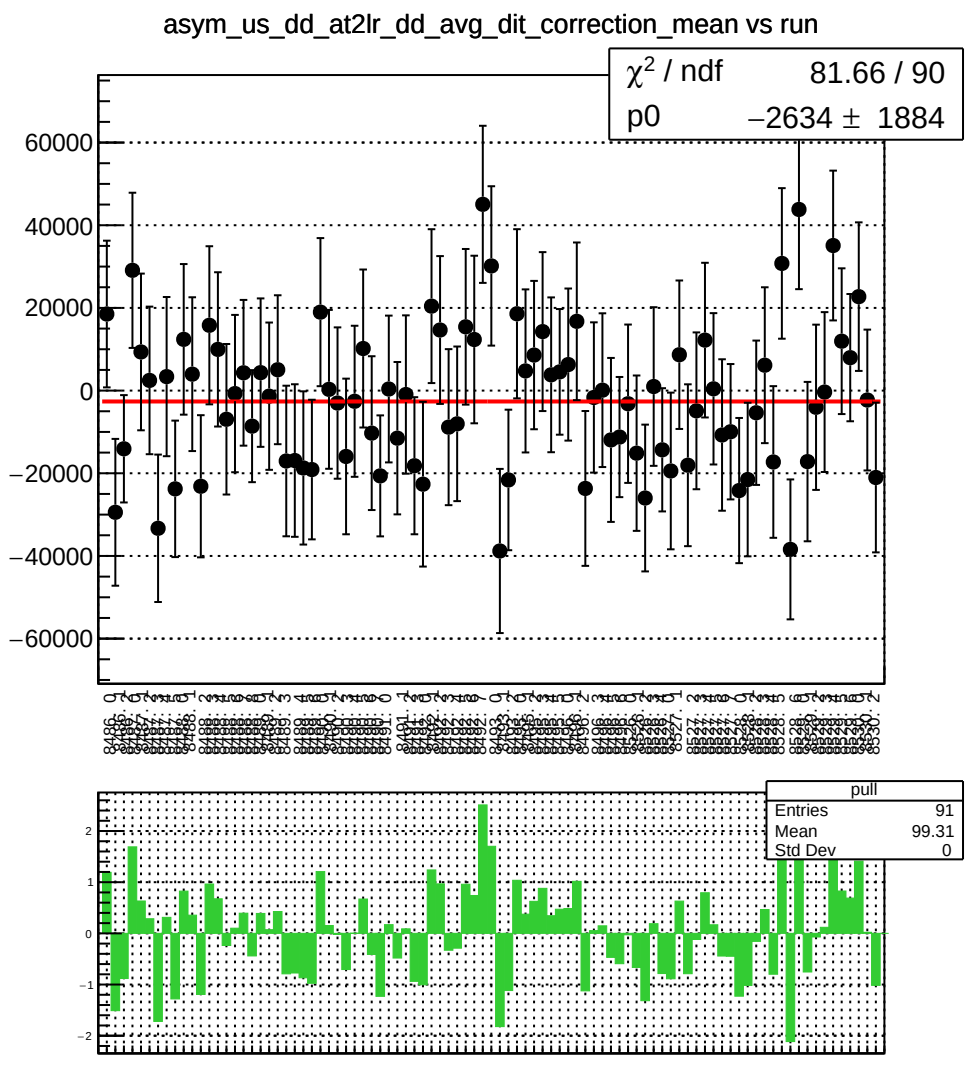

pull1D
Entries 91
Mean 0.01049
Std Dev 0.9349

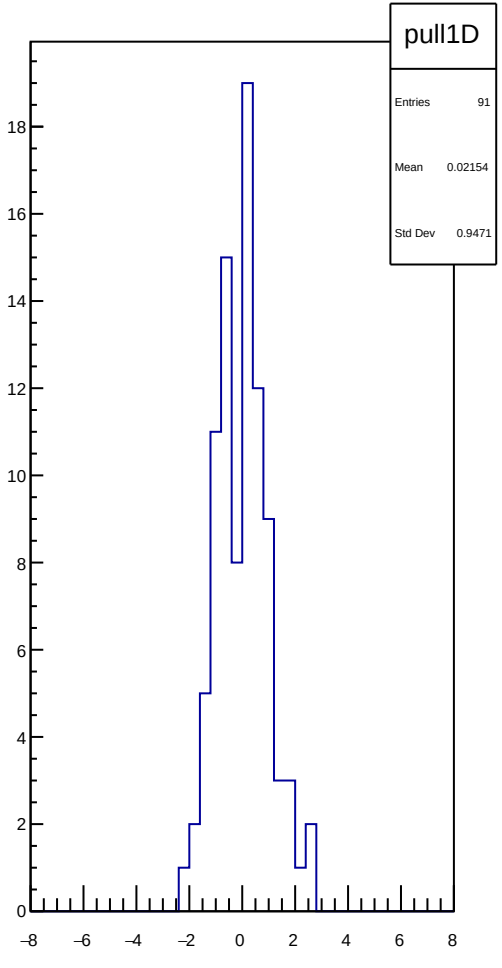

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 5.839e+04 / 90
p0 1751 ± 1.347
2600
2400
2200
2000
1800
1600
1400
1200
1000

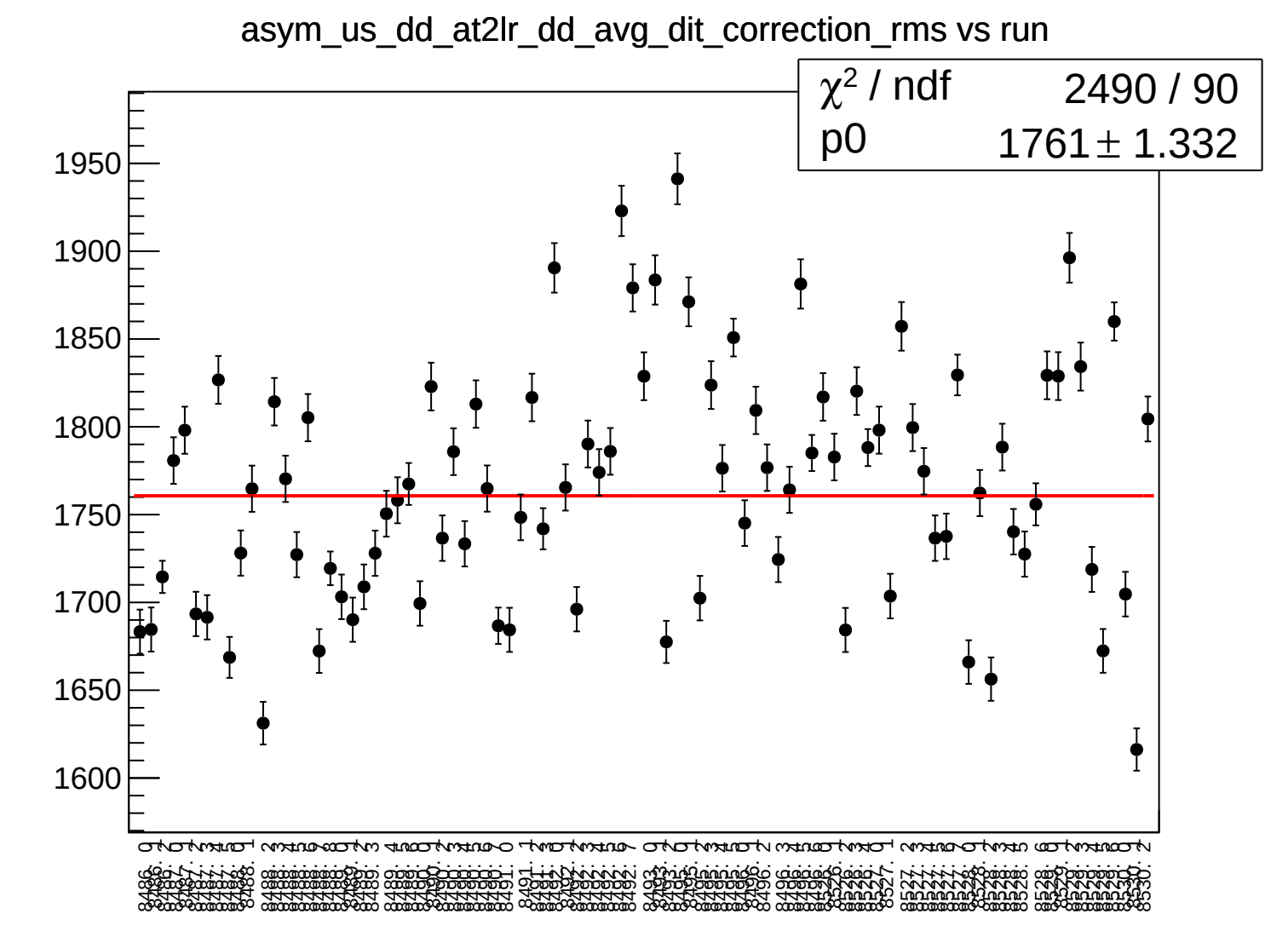

dit_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 69.58 / 90
p0 −1.8e+04 ± 3.33e+04
1000
500
0
−500
−1000
pull
Entries 91
Mean −4236
Std Dev 0
2
1
0
−1
−2

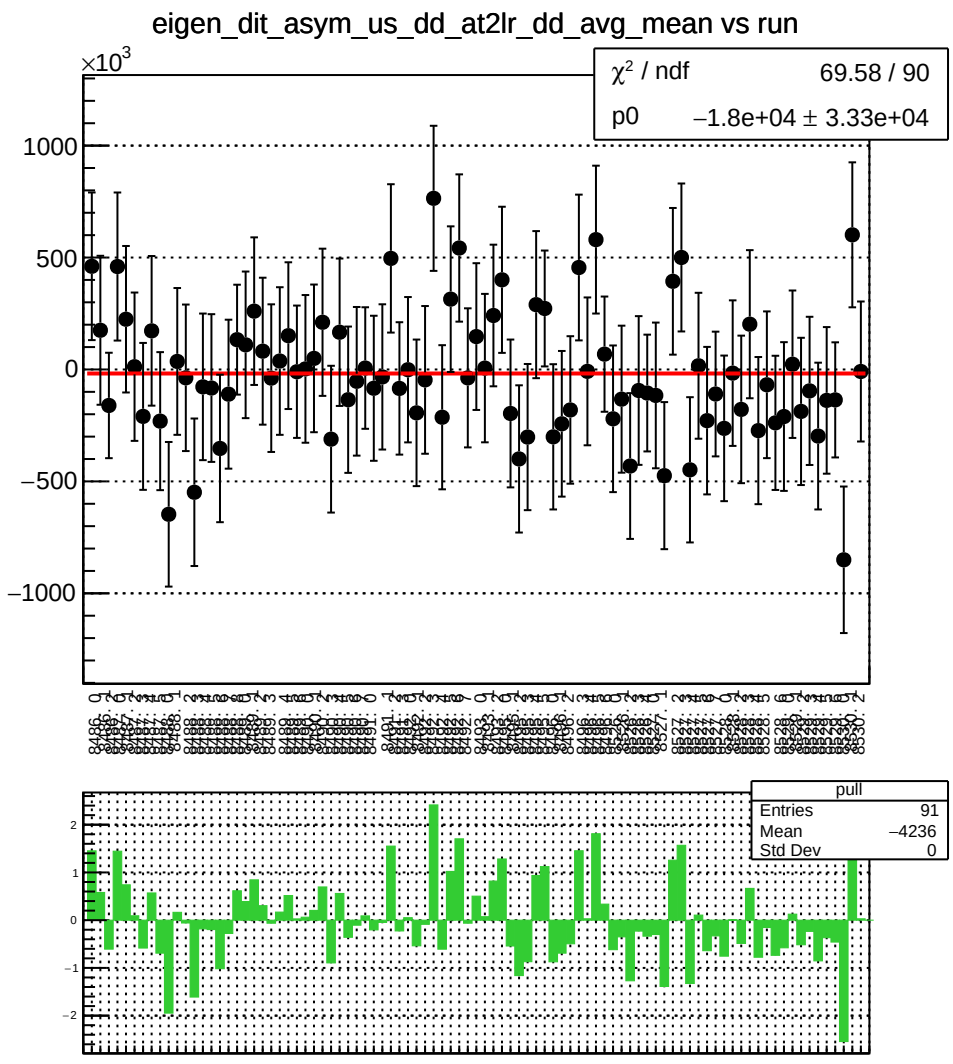

pull1D
Entries 91
Mean 0.000804
Std Dev 0.8744
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

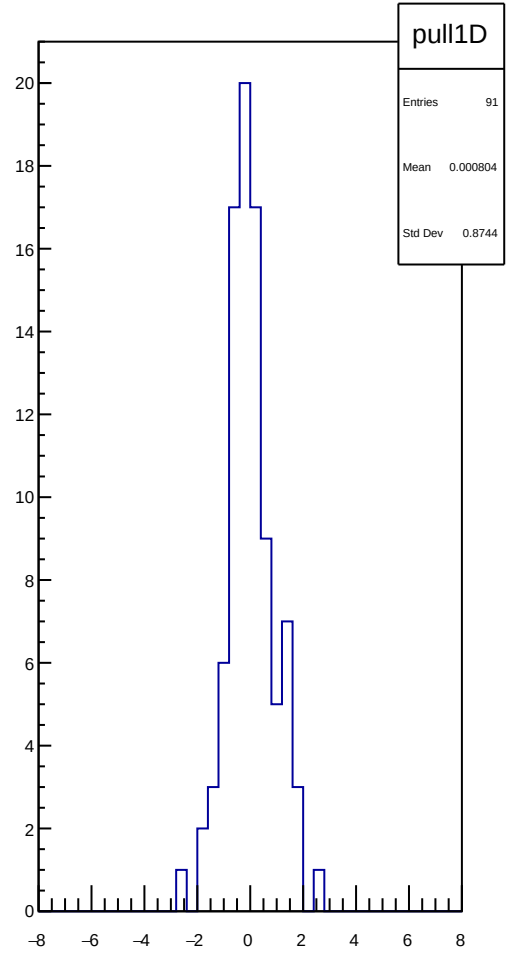

dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 97.47 / 90
p0 3.115e+04 ± 23.55
32000
31800
31600
31400
31200
31000
30800
30600
30400
30200

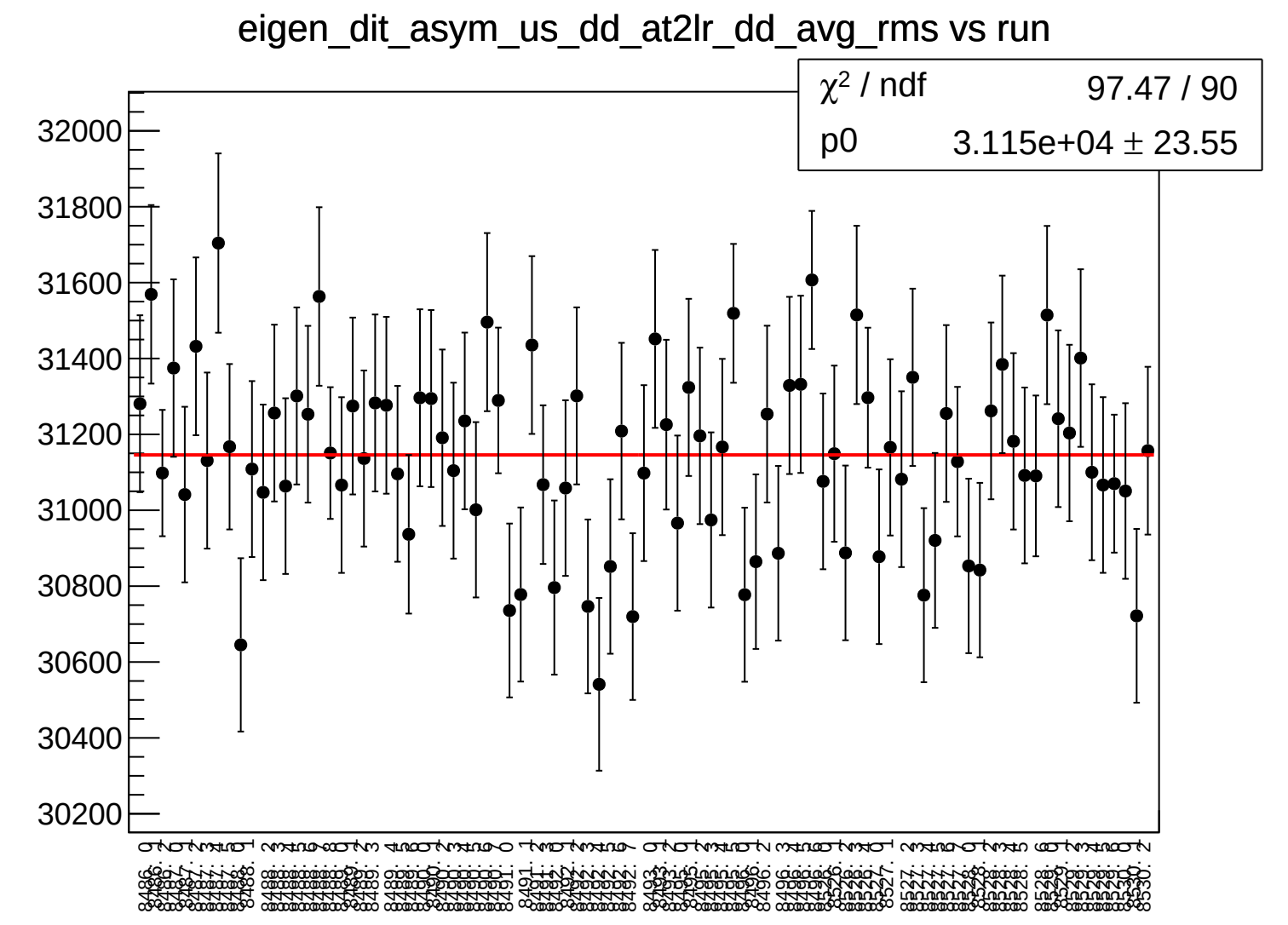

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
χ² / ndf 81.66 / 90
p0 −2634 ± 1884
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 99.31
Std Dev 0
2
1
0
−1
−2

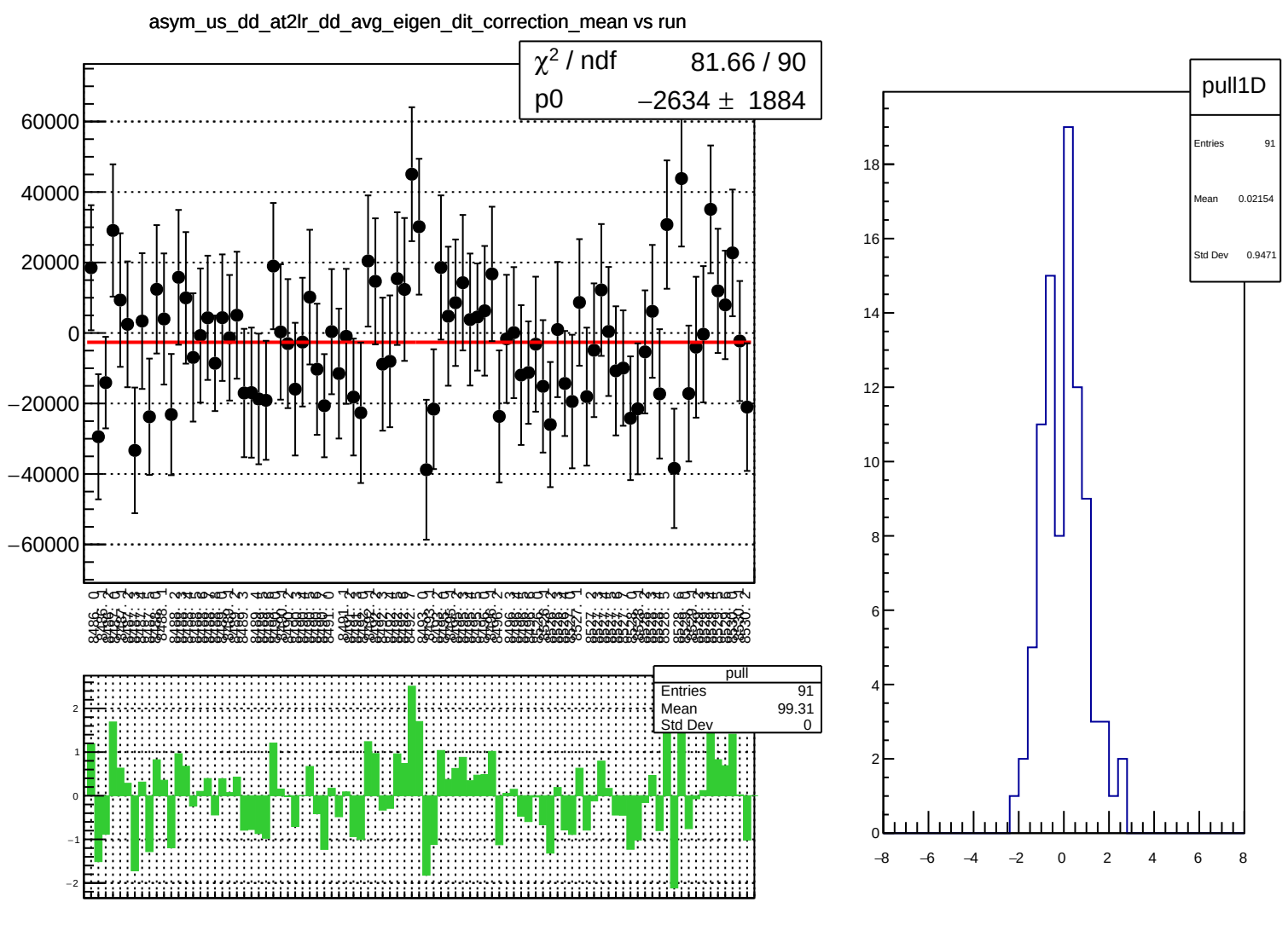

pull1D
Entries 91
Mean 0.02154
Std Dev 0.9471
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

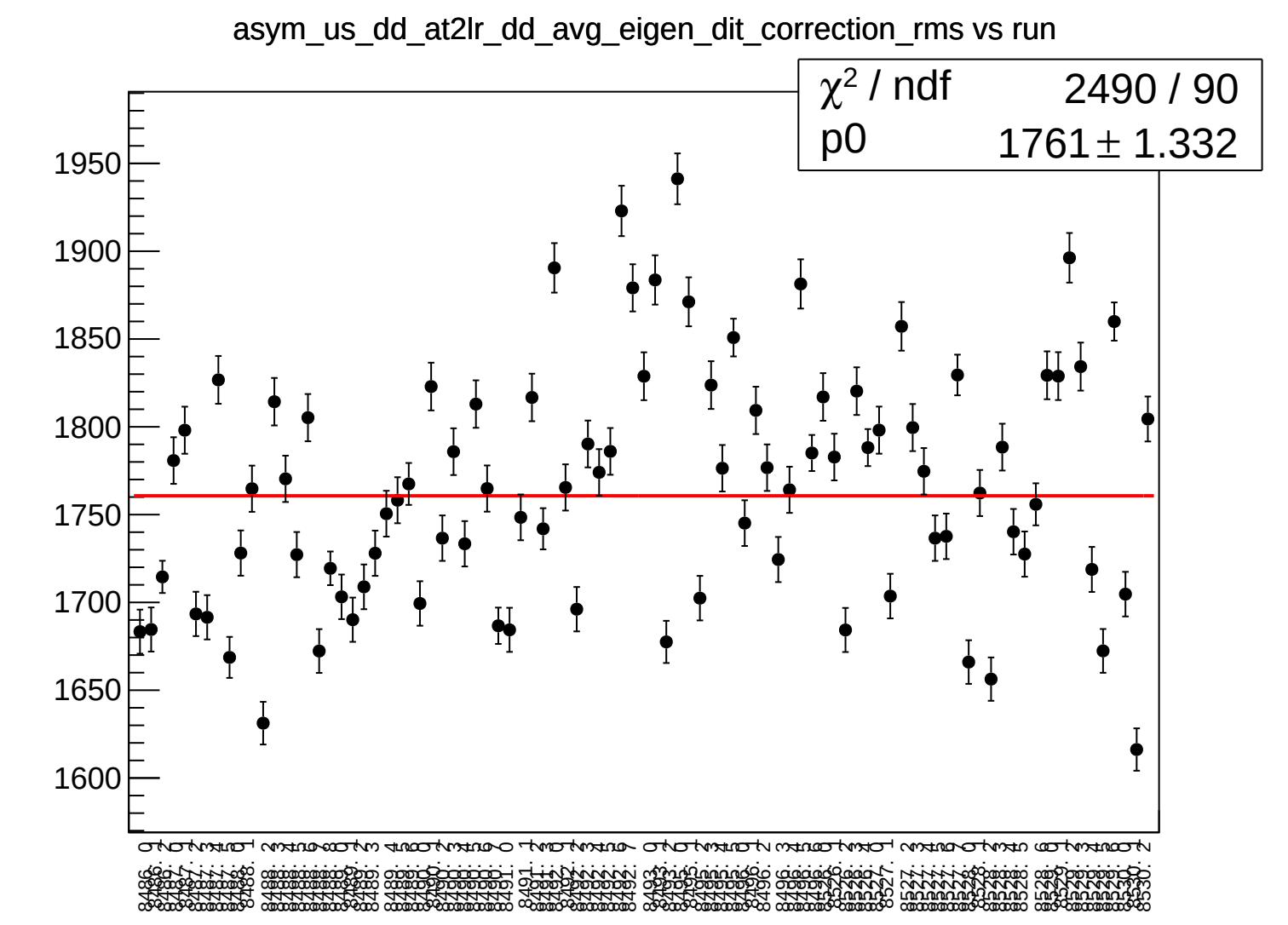

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 2490 / 90
p0 1761 ± 1.332
1950
1900
1850
1800
1750
1700
1650
1600

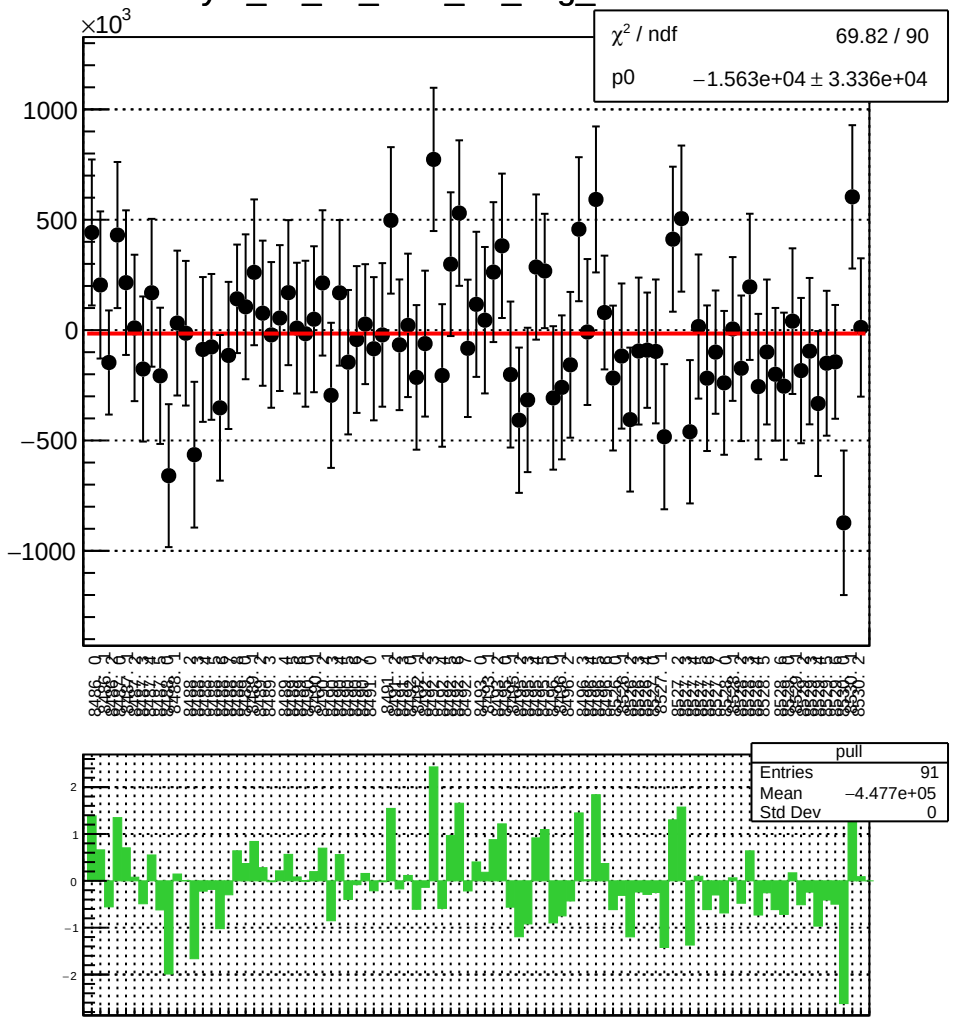

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 69.58 / 90
p0 −1.8e+04 ± 3.33e+04
1000
500
0
−500
−1000
pull
Entries 91
Mean −4236
Std Dev 0
2
1
0
−1
−2

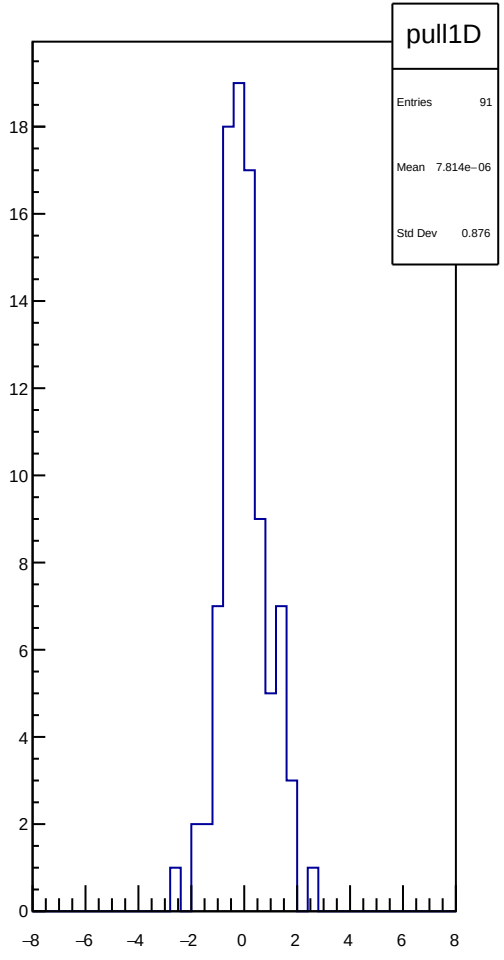

pull1D
Entries 91
Mean 0.000804
Std Dev 0.8744
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 97.47 / 90
p0 3.115e+04 ± 23.55
32000
31800
31600
31400
31200
31000
30800
30600
30400
30200


asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 81.66 / 90
p0 −2634 ± 1884
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 99.31
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.02154
Std Dev 0.9471
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2490 / 90
p0 1761 ± 1.332
1950
1900
1850
1800
1750
1700
1650
1600


asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 69.82 / 90
p0 −1.563e+04 ± 3.336e+04
1000
500
0
−500
−1000
pull
Entries 91
Mean −4.477e+05
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 91
Mean 7.814e−06
Std Dev 0.876
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
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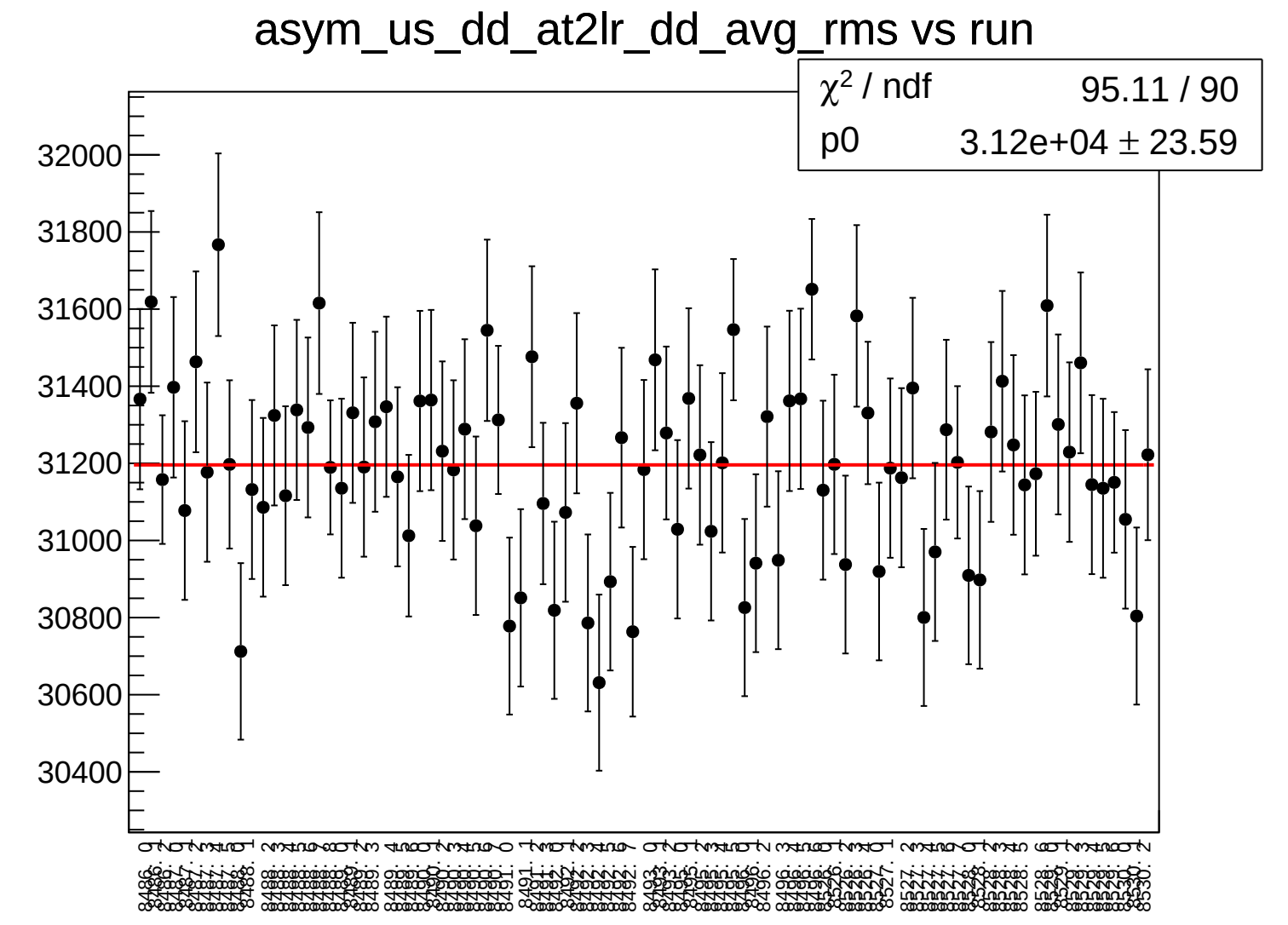
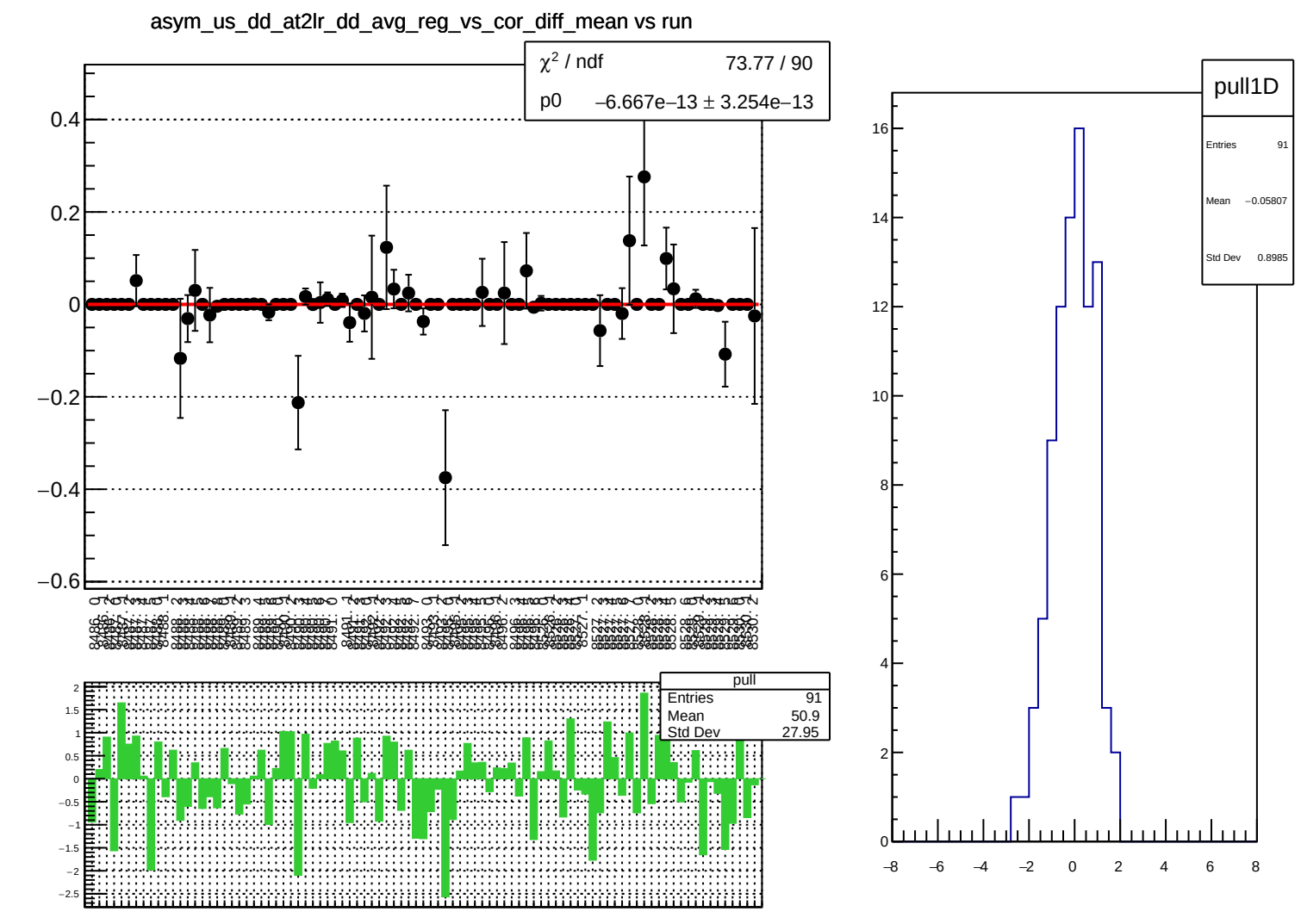
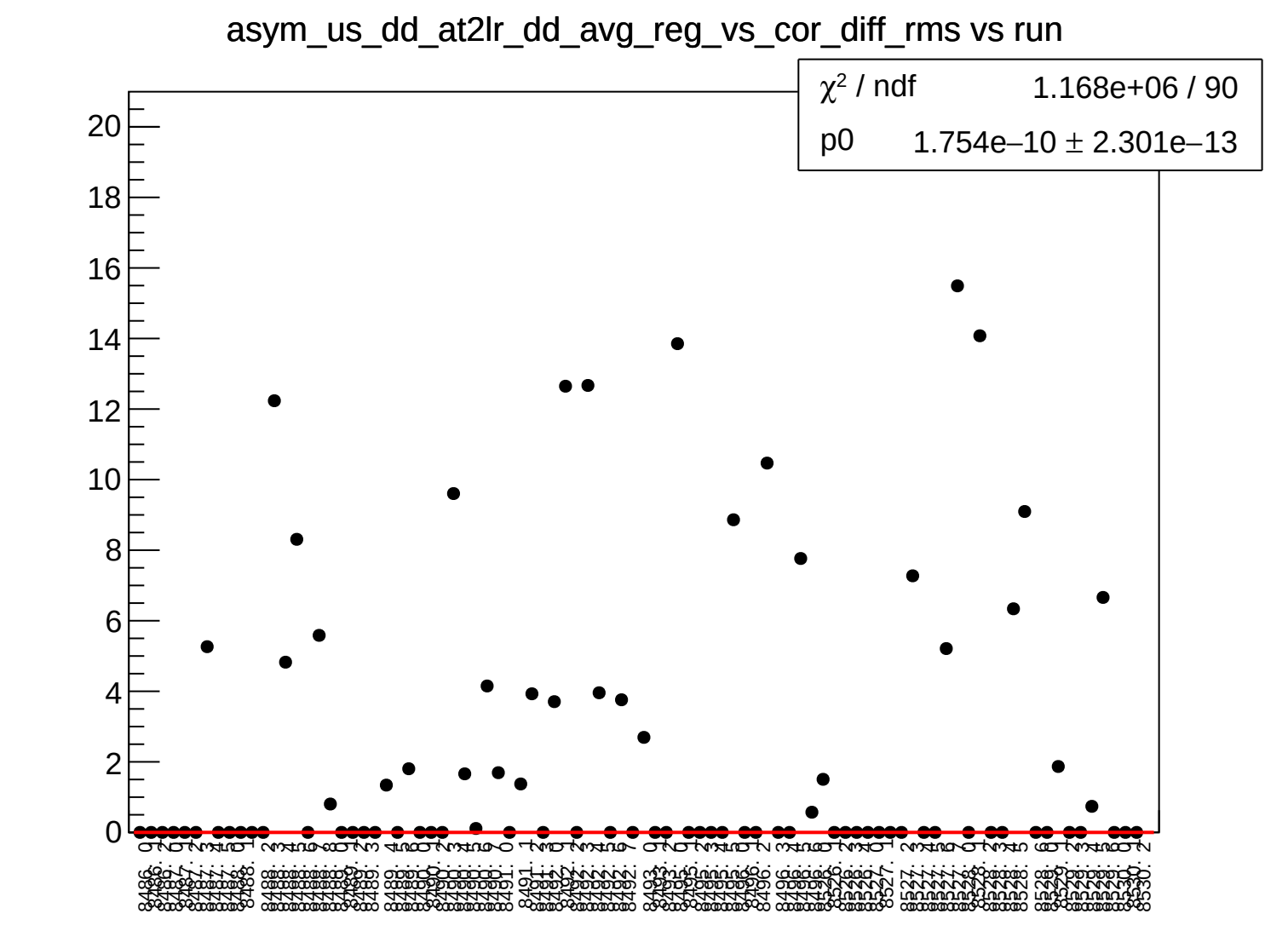
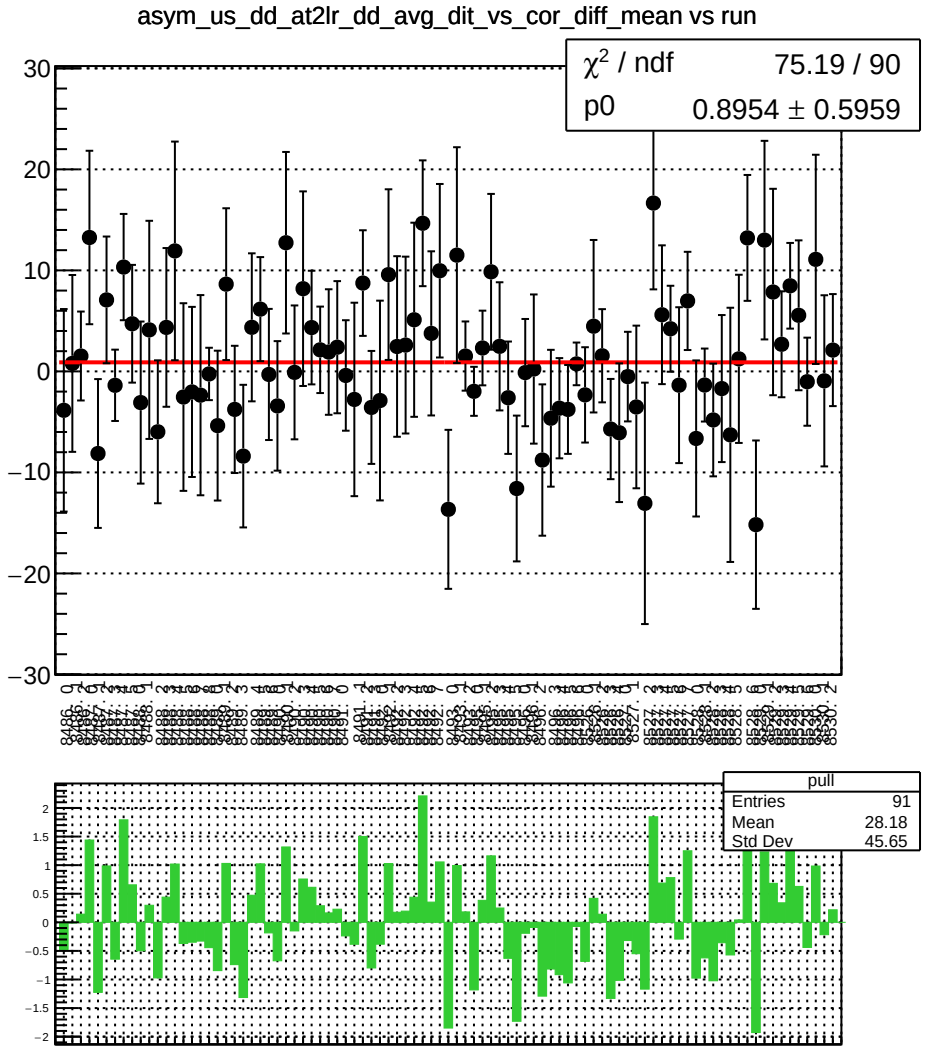
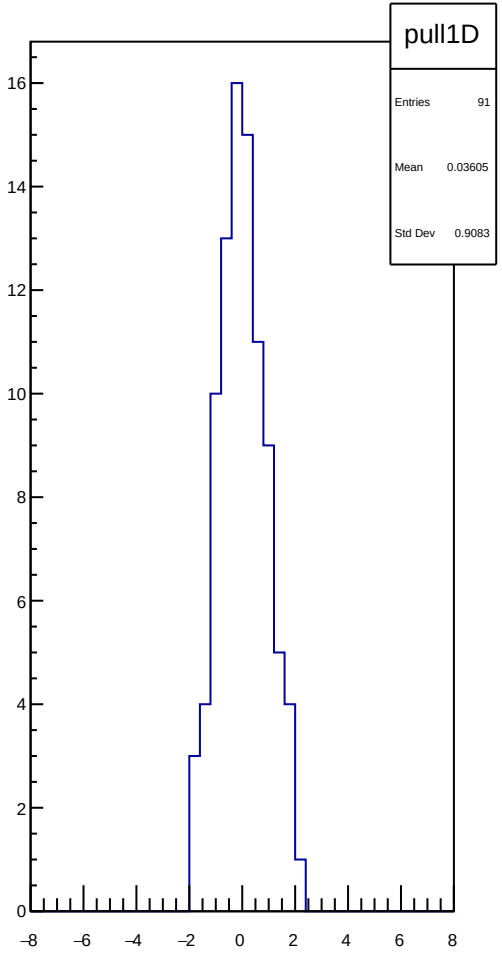
0
2
4
6
8

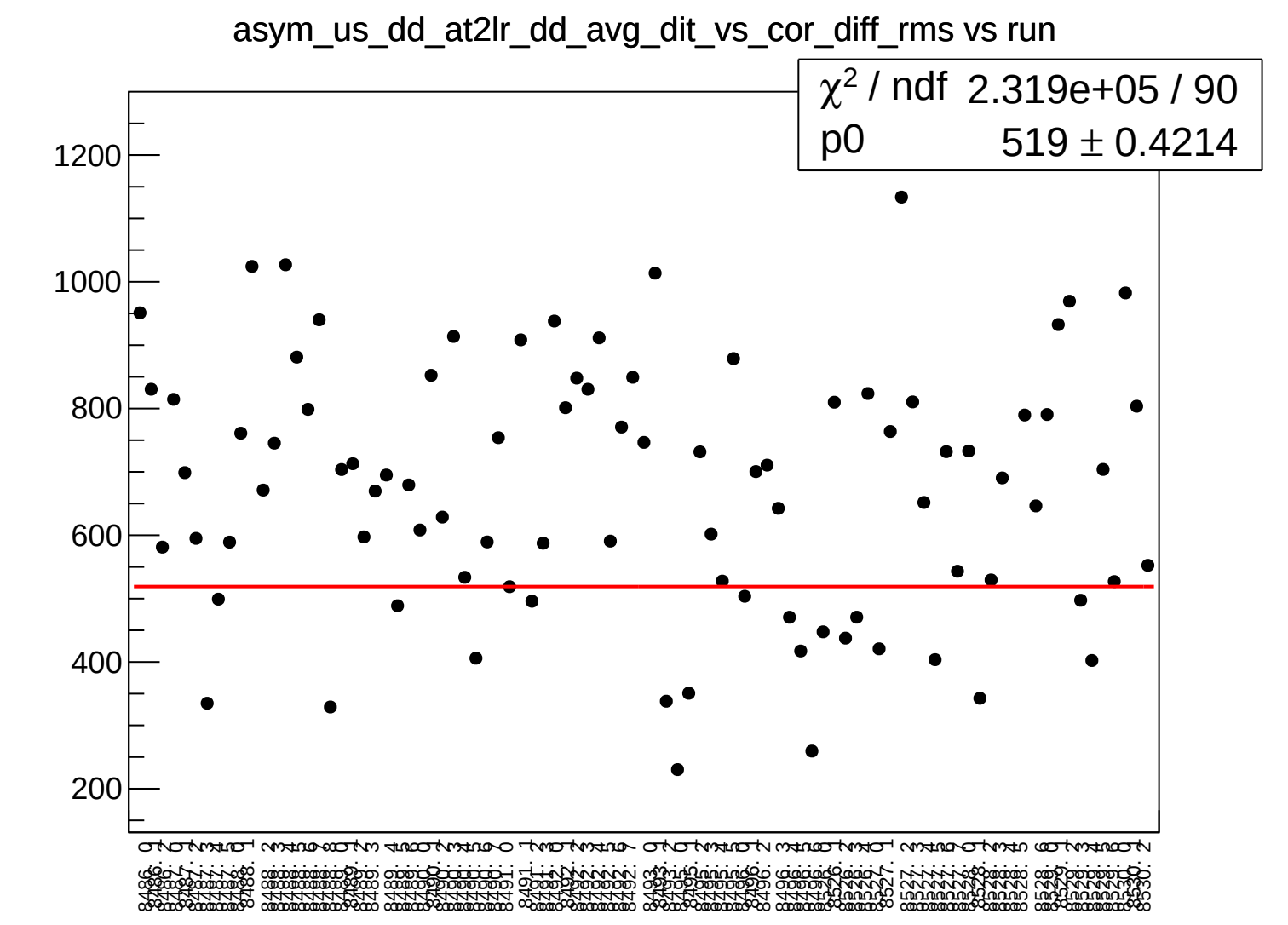

asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 95.11 / 90
p0 3.12e+04 ± 23.59
32000
31800
31600
31400
31200
31000
30800
30600
30400

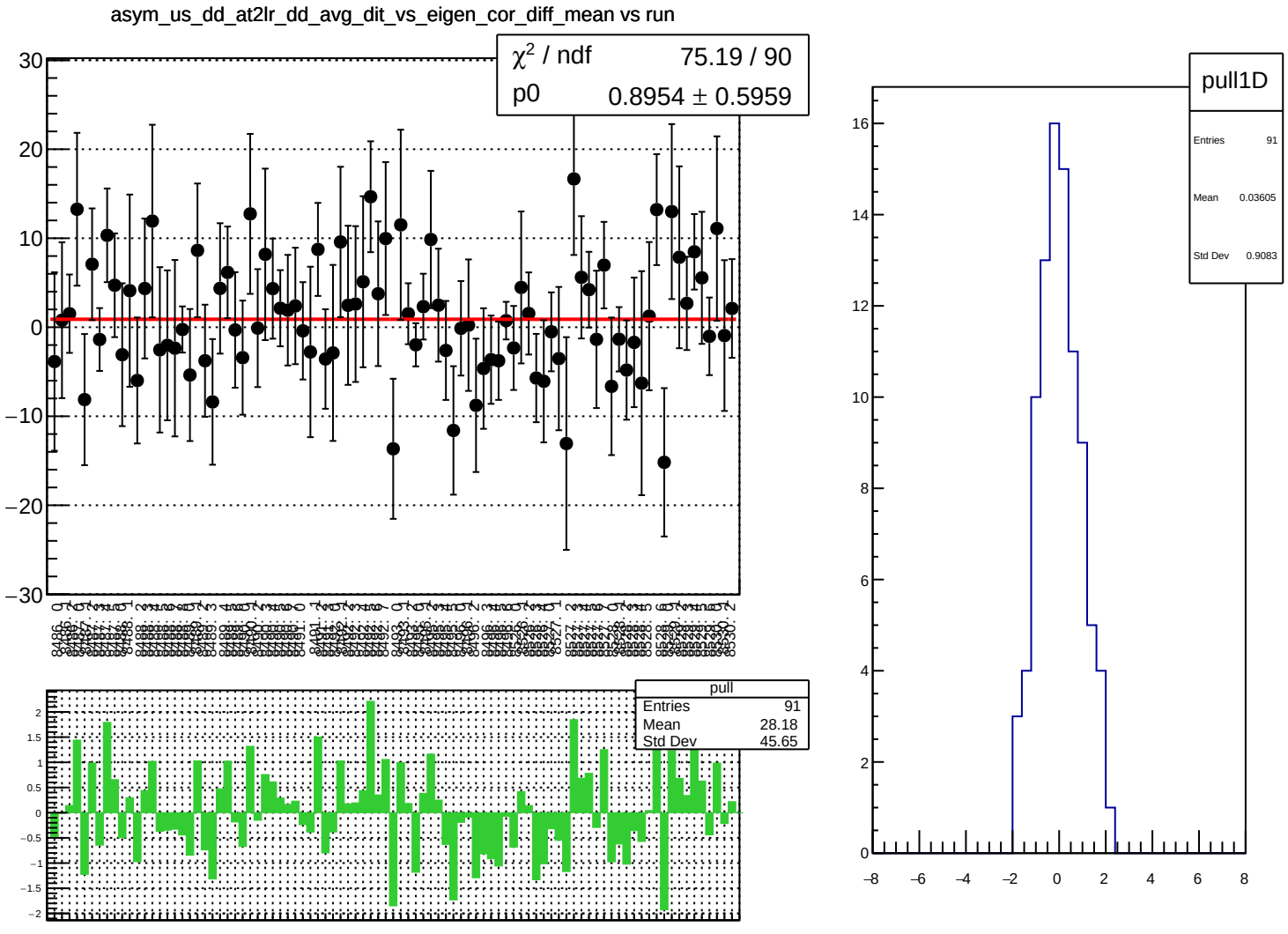

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 73.77 / 90
p0 −6.667e−13 ± 3.254e−13
pull
Entries 91
Mean 50.9
Std Dev 27.95
pull1D
Entries 91
Mean −0.05807
Std Dev 0.8985

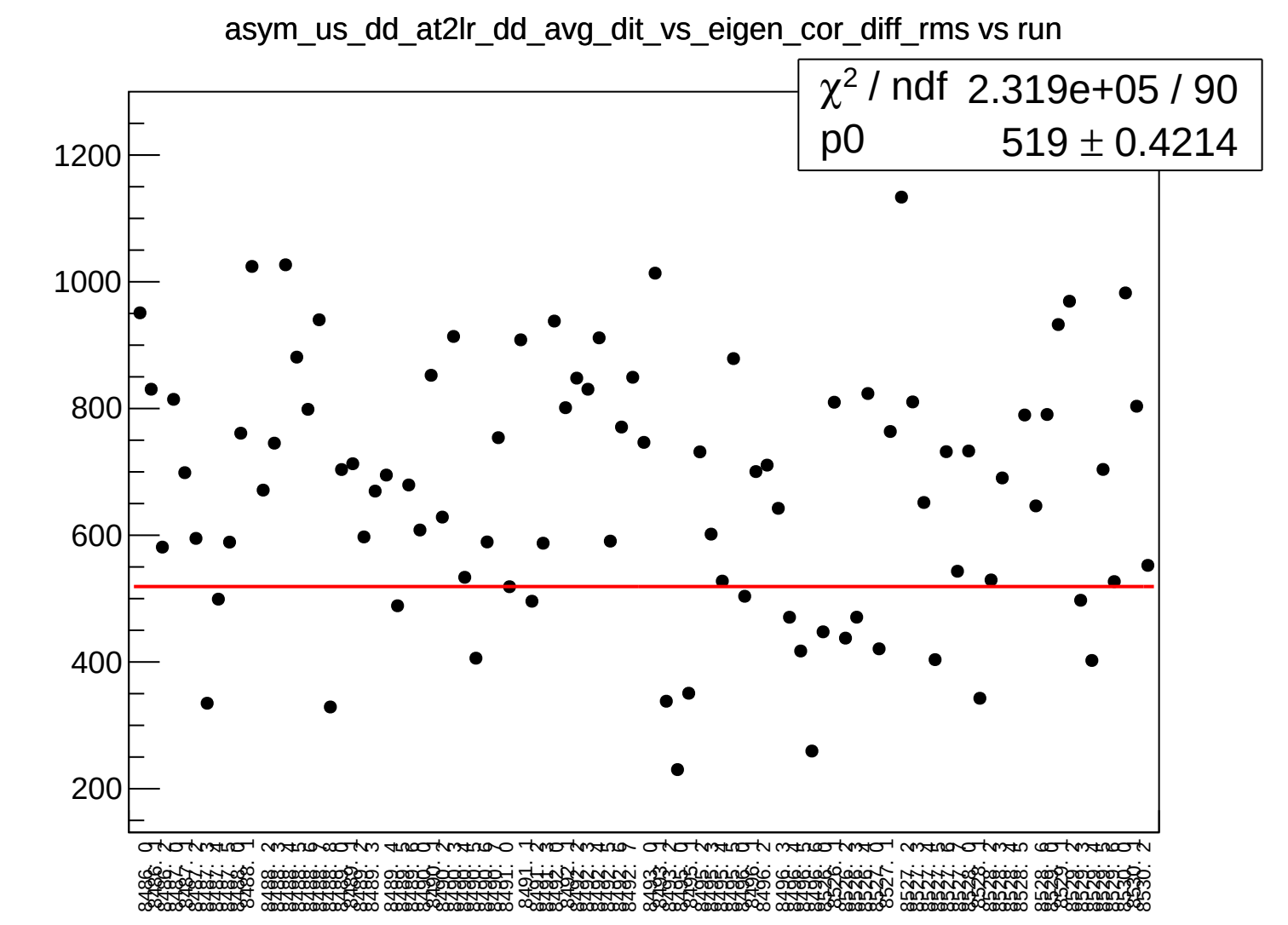

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.168e+06 / 90
p0 1.754e−10 ± 2.301e−13
20
18
16
14
12
10
8
6
4
2
0

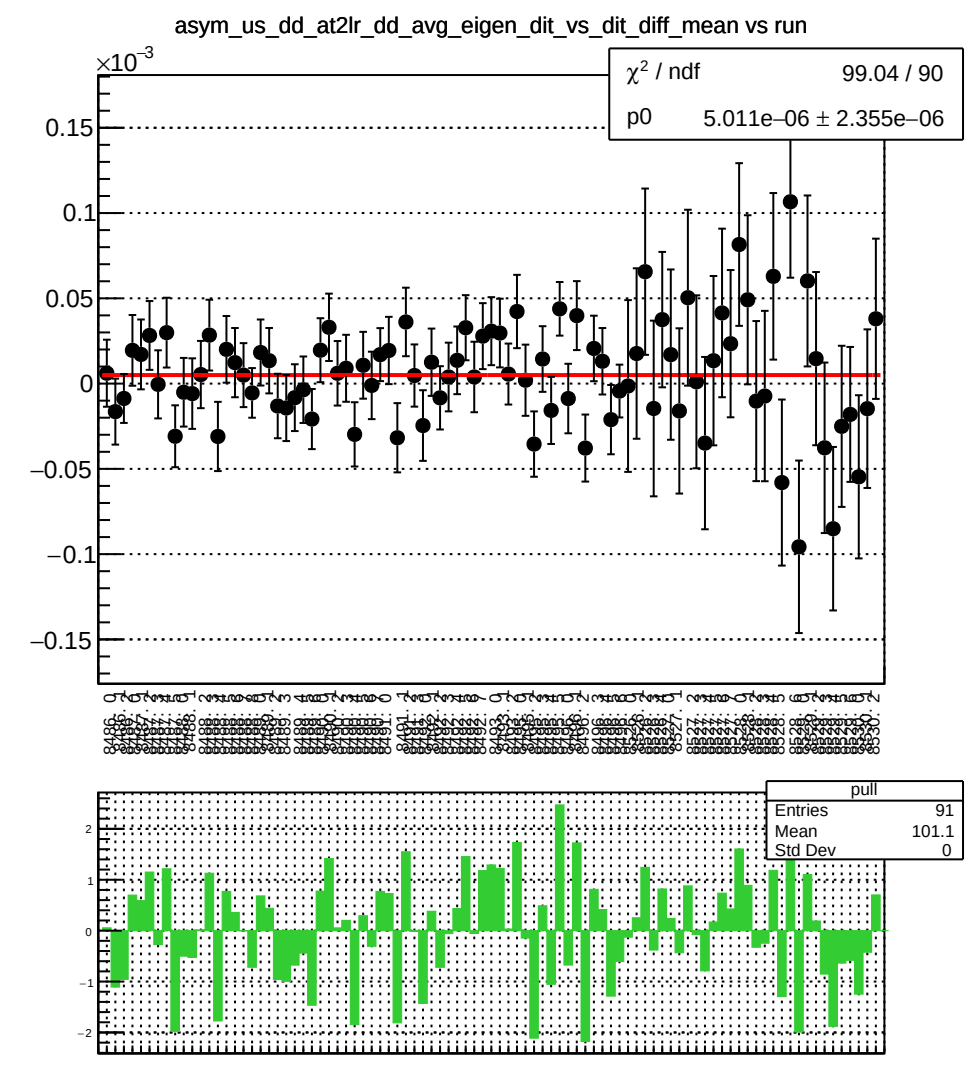

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 75.19 / 90
p0 0.8954 ± 0.5959
pull
Entries 91
Mean 28.18
Std Dev 45.65

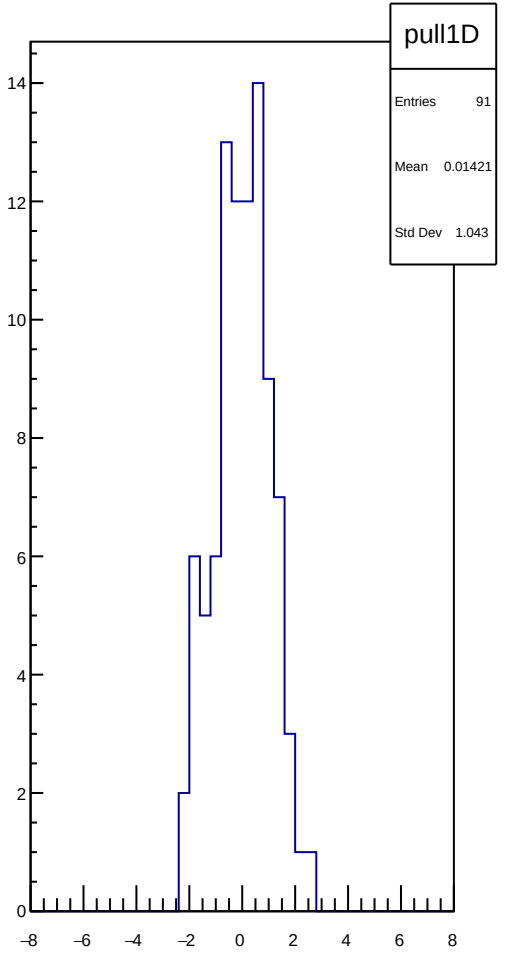

pull1D
Entries 91
Mean 0.03605
Std Dev 0.9083

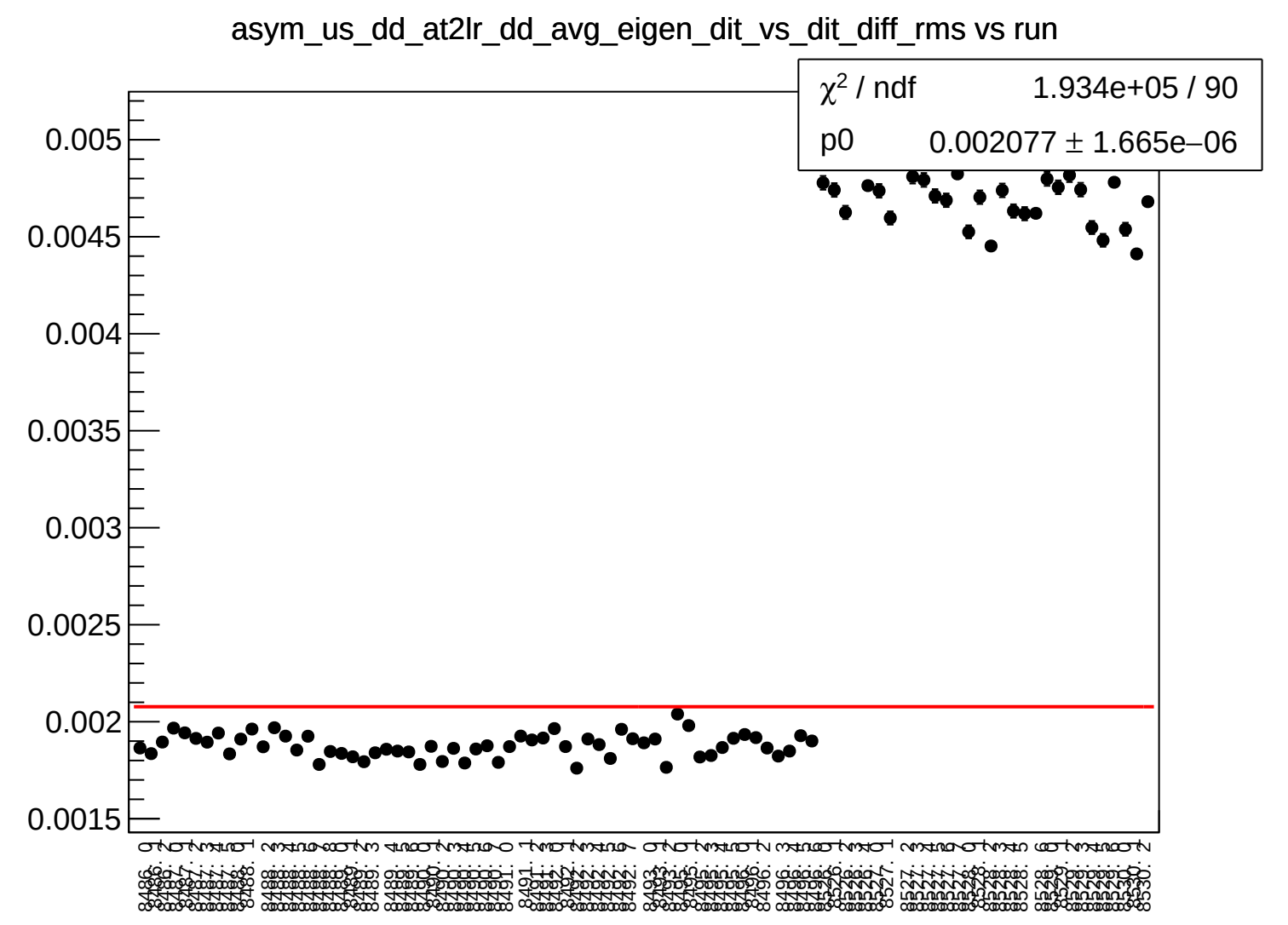

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.319e+05 / 90
p0 519 ± 0.4214
1200
1000
800
600
400
200

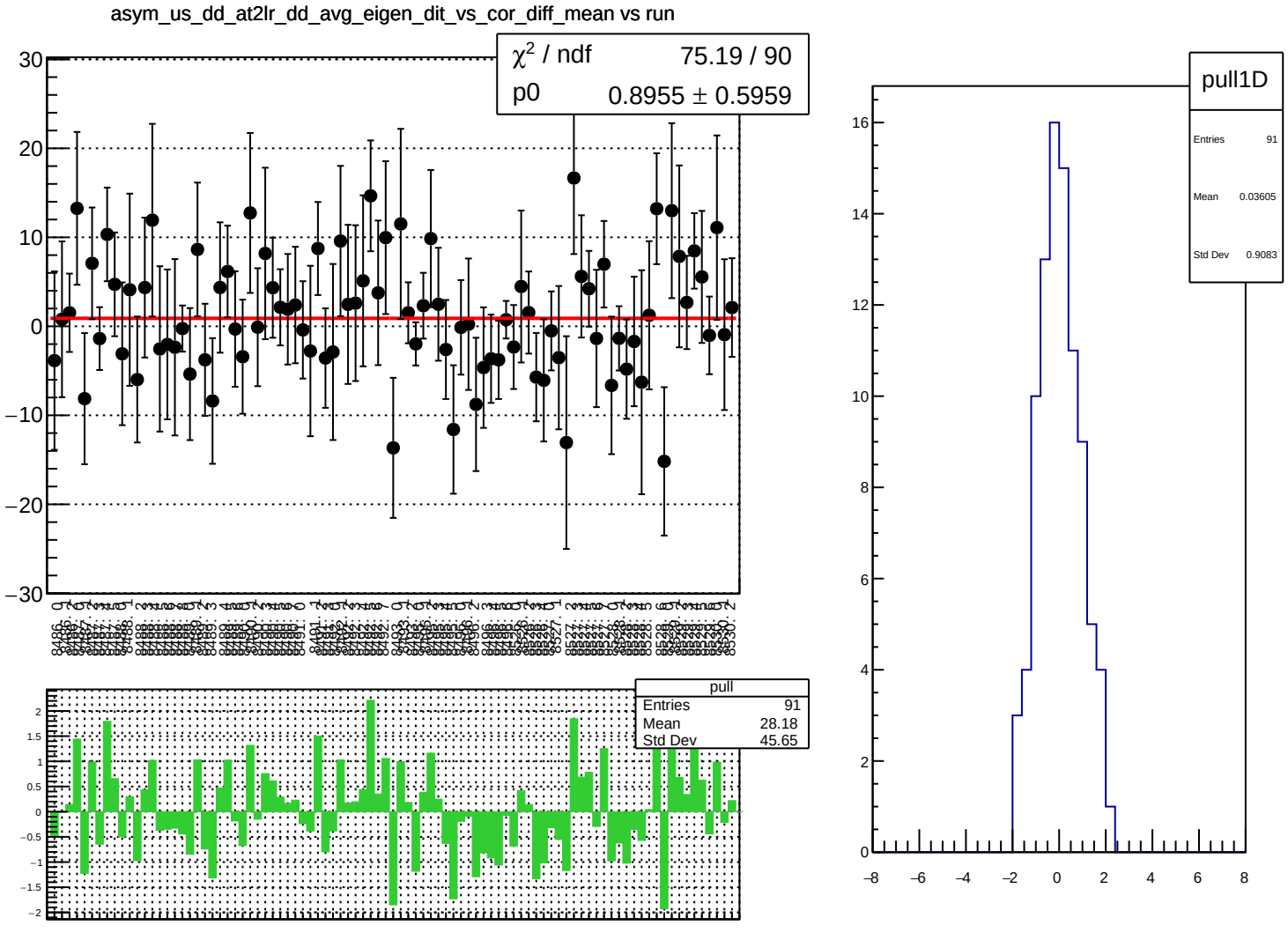

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.19 / 90
p0 0.8954 ± 0.5959
pull
Entries 91
Mean 28.18
Std Dev 45.65
pull1D
Entries 91
Mean 0.03605
Std Dev 0.9083

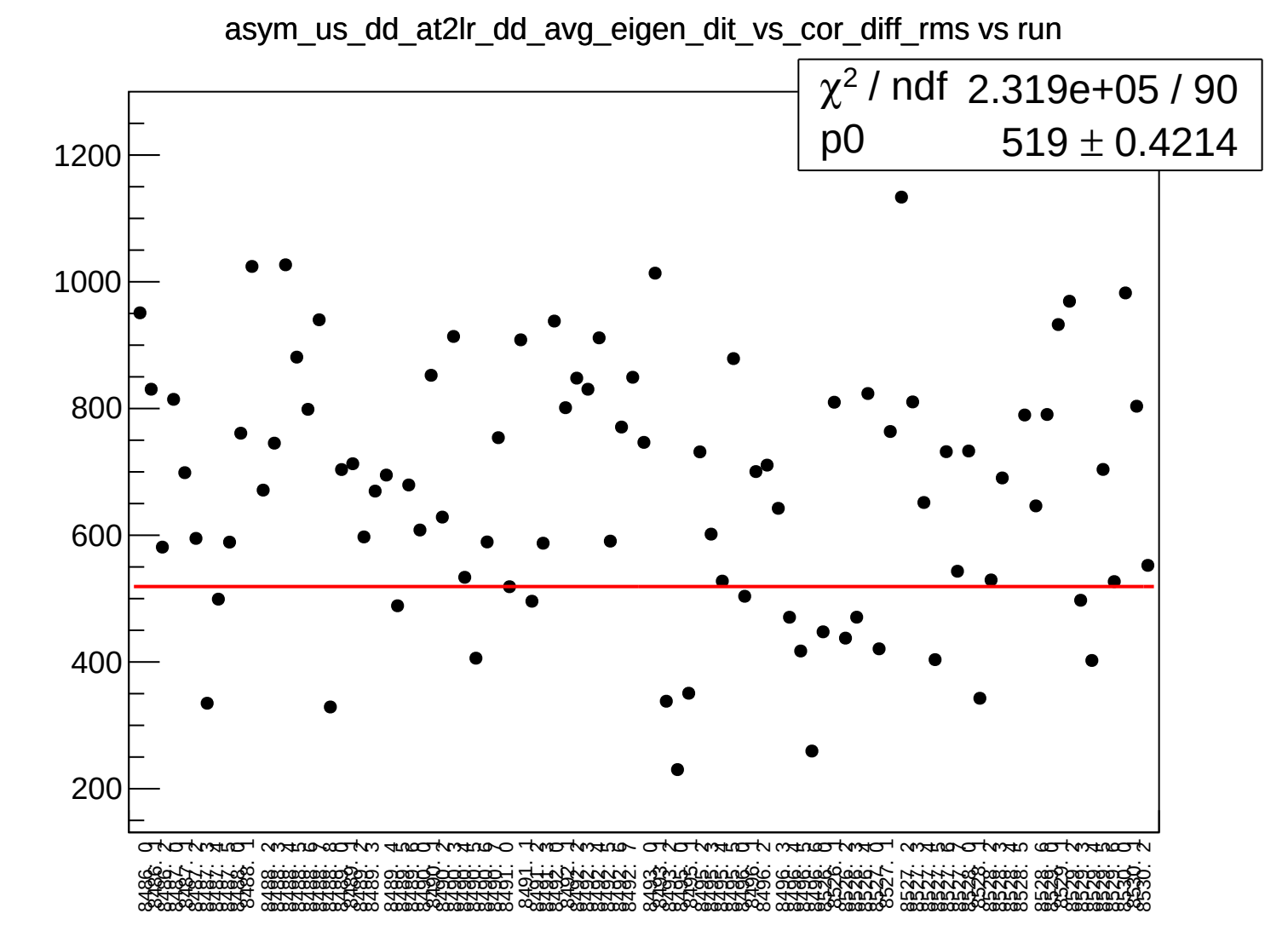

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.319e+05 / 90
p0 519 ± 0.4214
1200
1000
800
600
400
200

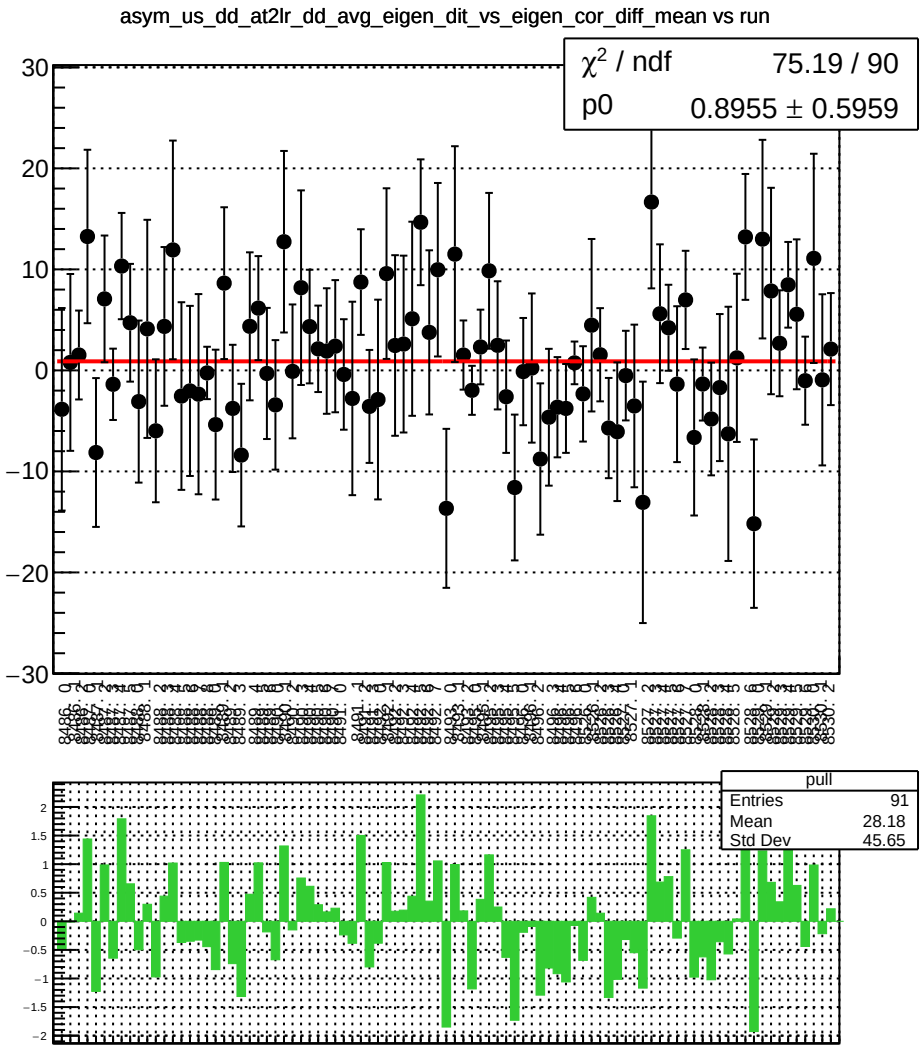

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.04 / 90
p0 5.011e−06 ± 2.355e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 91
Mean 101.1
Std Dev 0
2
1
0
−1
−2

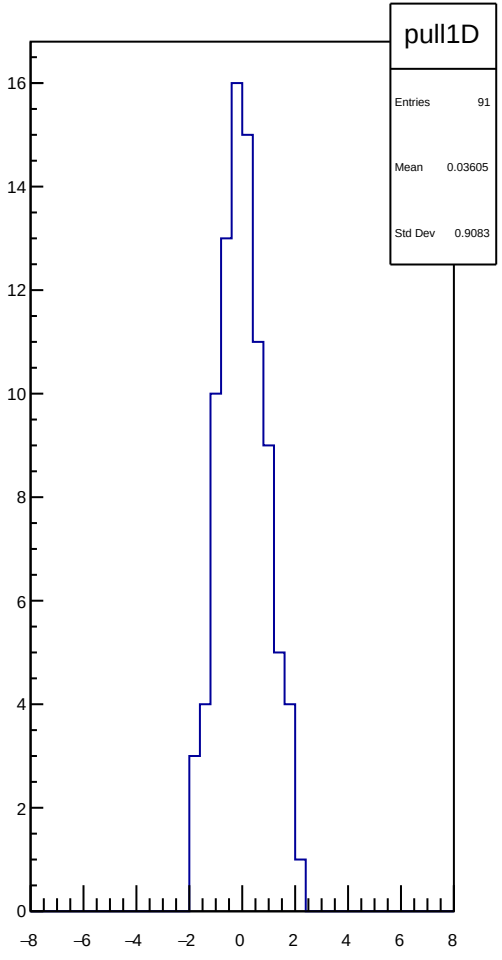

pull1D
Entries 91
Mean 0.01421
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

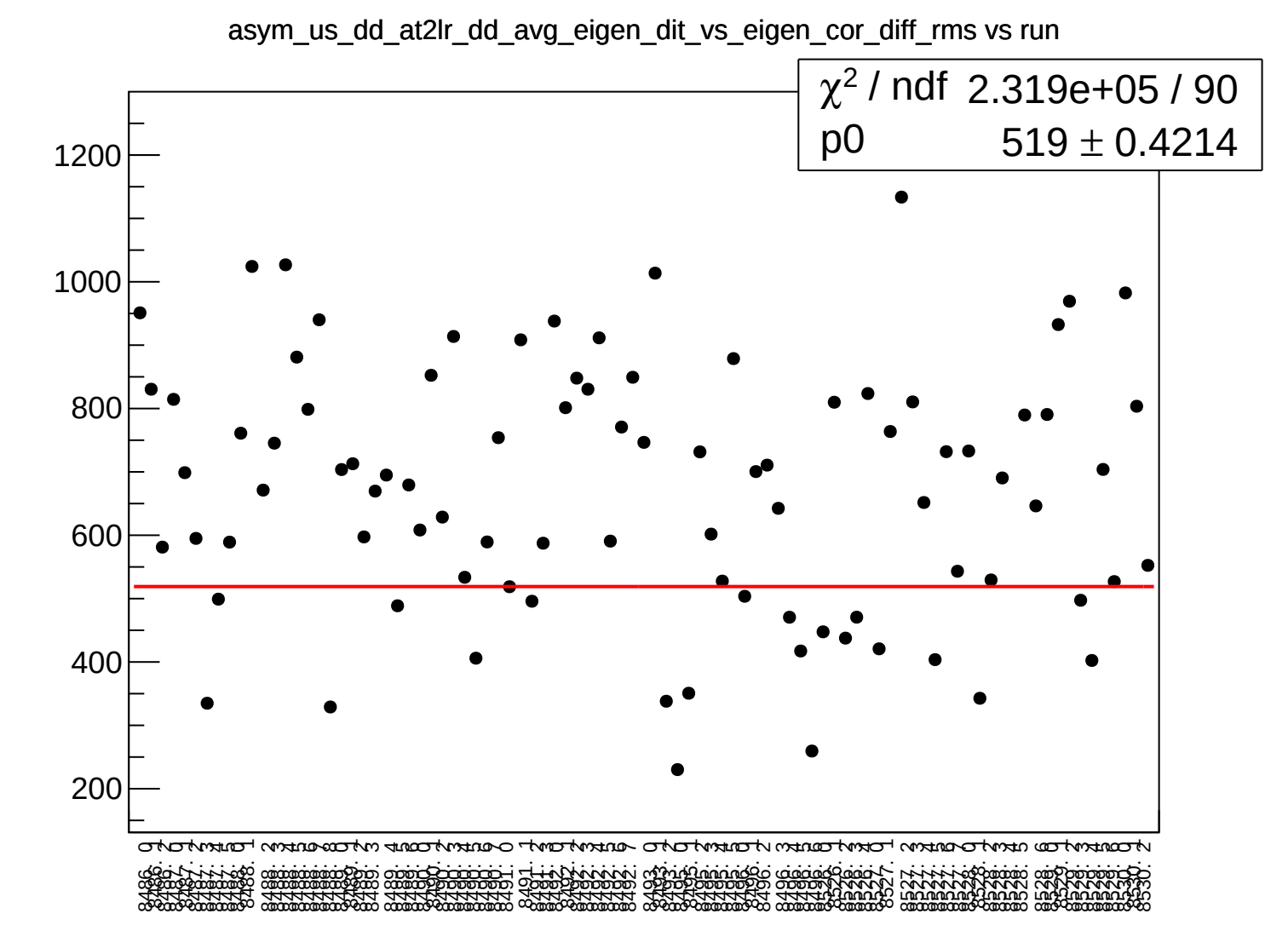

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.934e+05 / 90
p0 0.002077 ± 1.665e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015

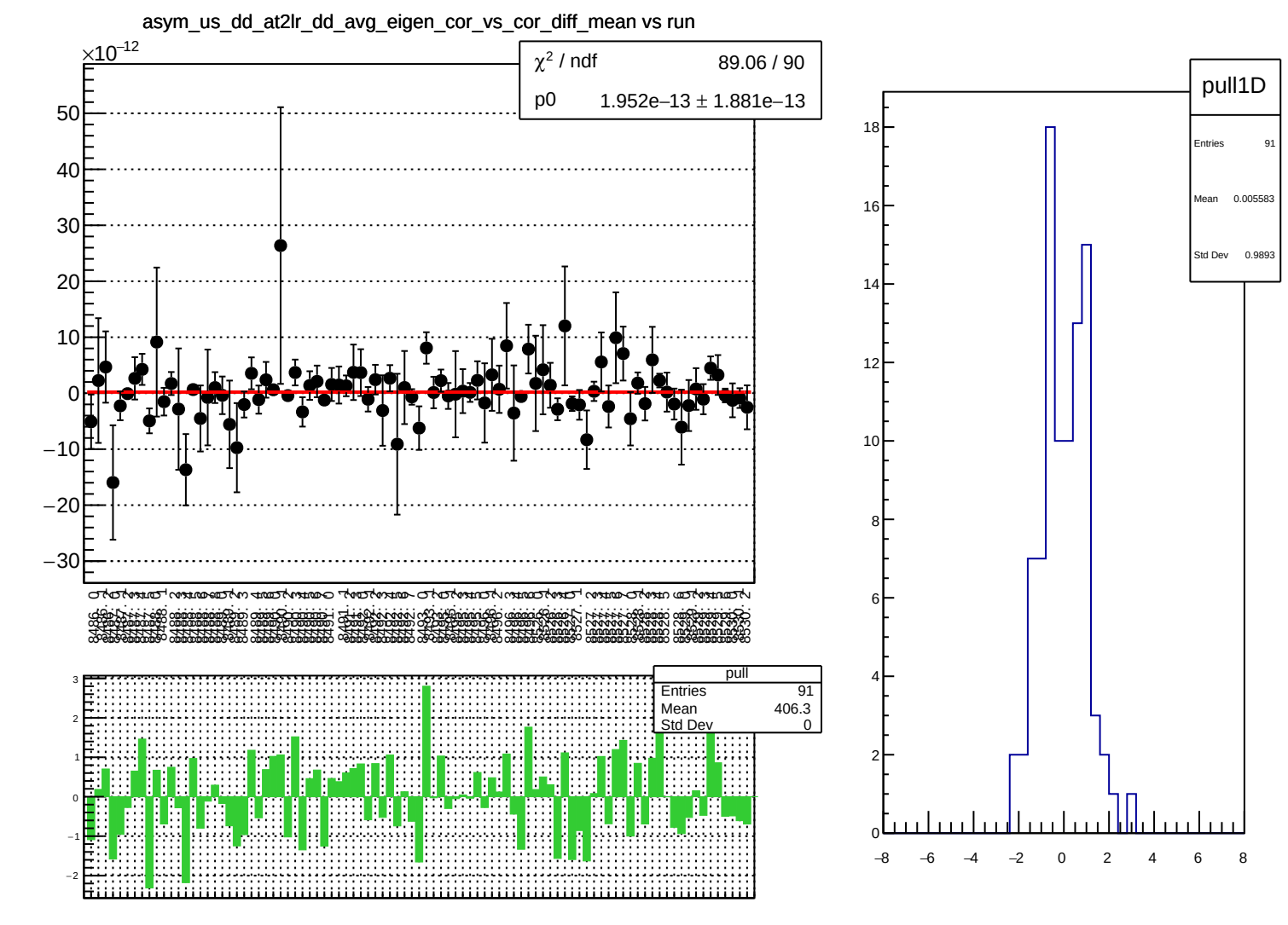

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.19 / 90
p0 0.8955 ± 0.5959
pull
Entries 91
Mean 28.18
Std Dev 45.65
pull1D
Entries 91
Mean 0.03605
Std Dev 0.9083

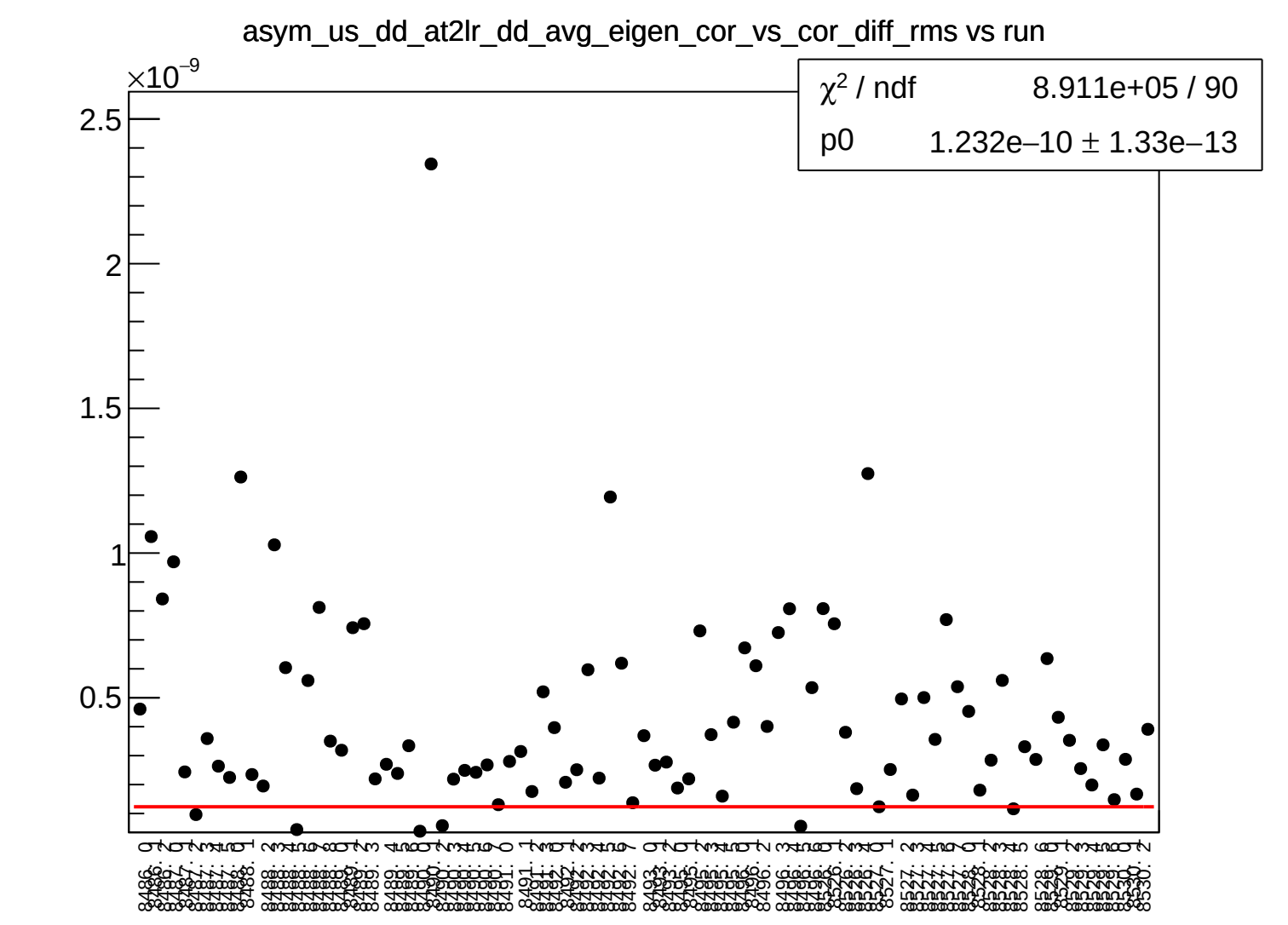

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.319e+05 / 90
p0 519 ± 0.4214
1200
1000
800
600
400
200

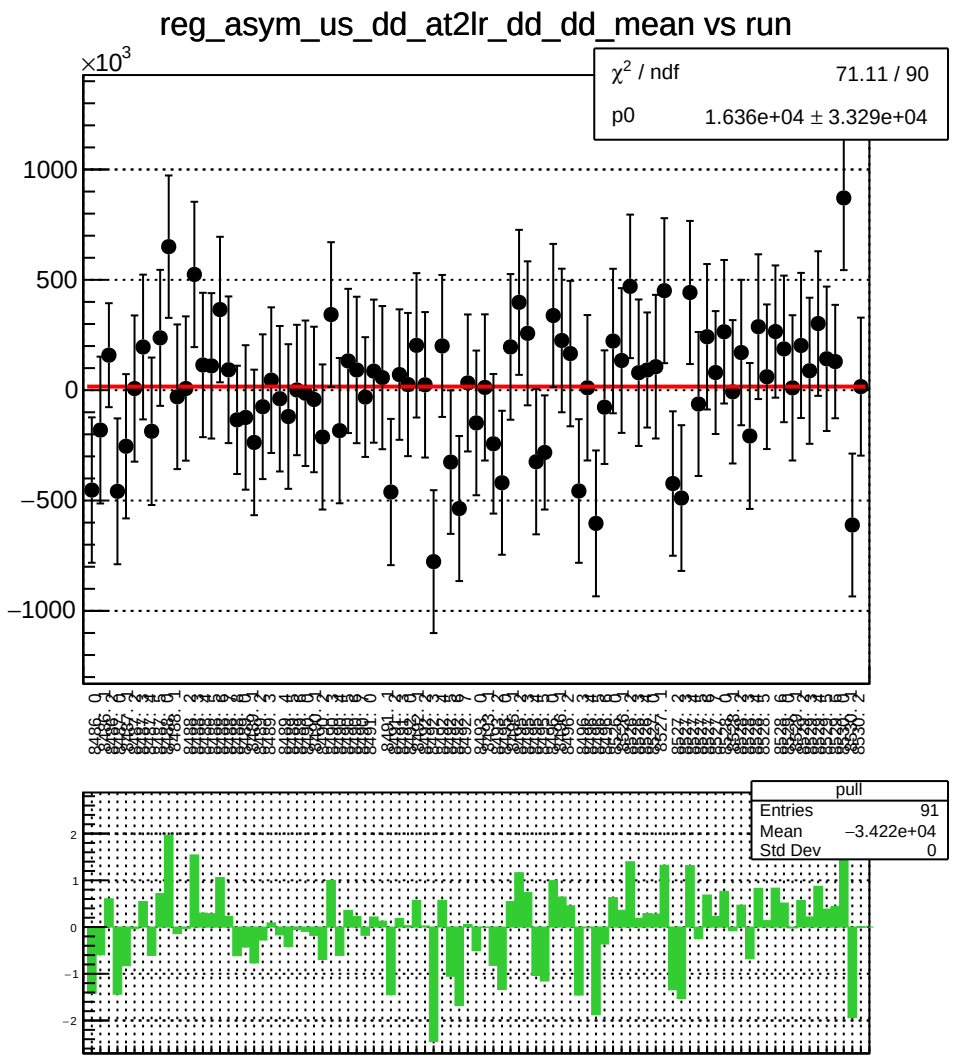

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.19 / 90
p0 0.8955 ± 0.5959
pull
Entries 91
Mean 28.18
Std Dev 45.65

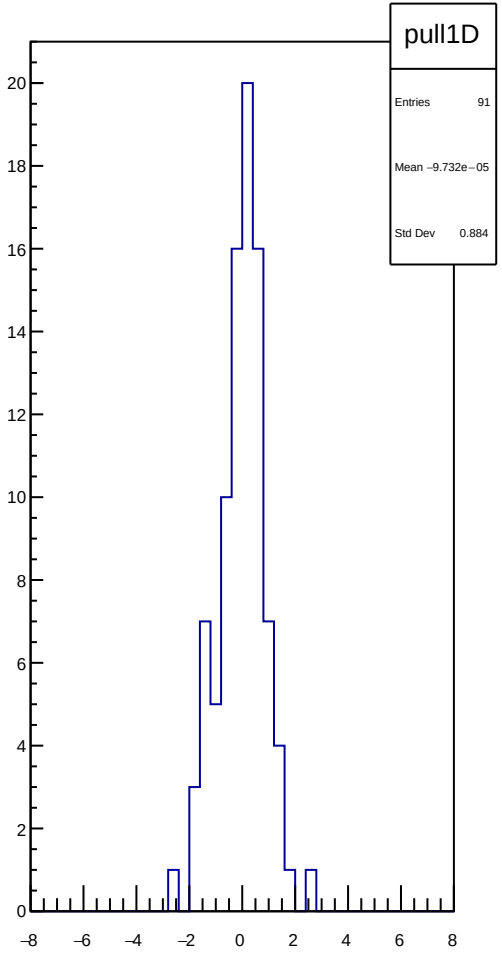

pull1D
Entries 91
Mean 0.03605
Std Dev 0.9083

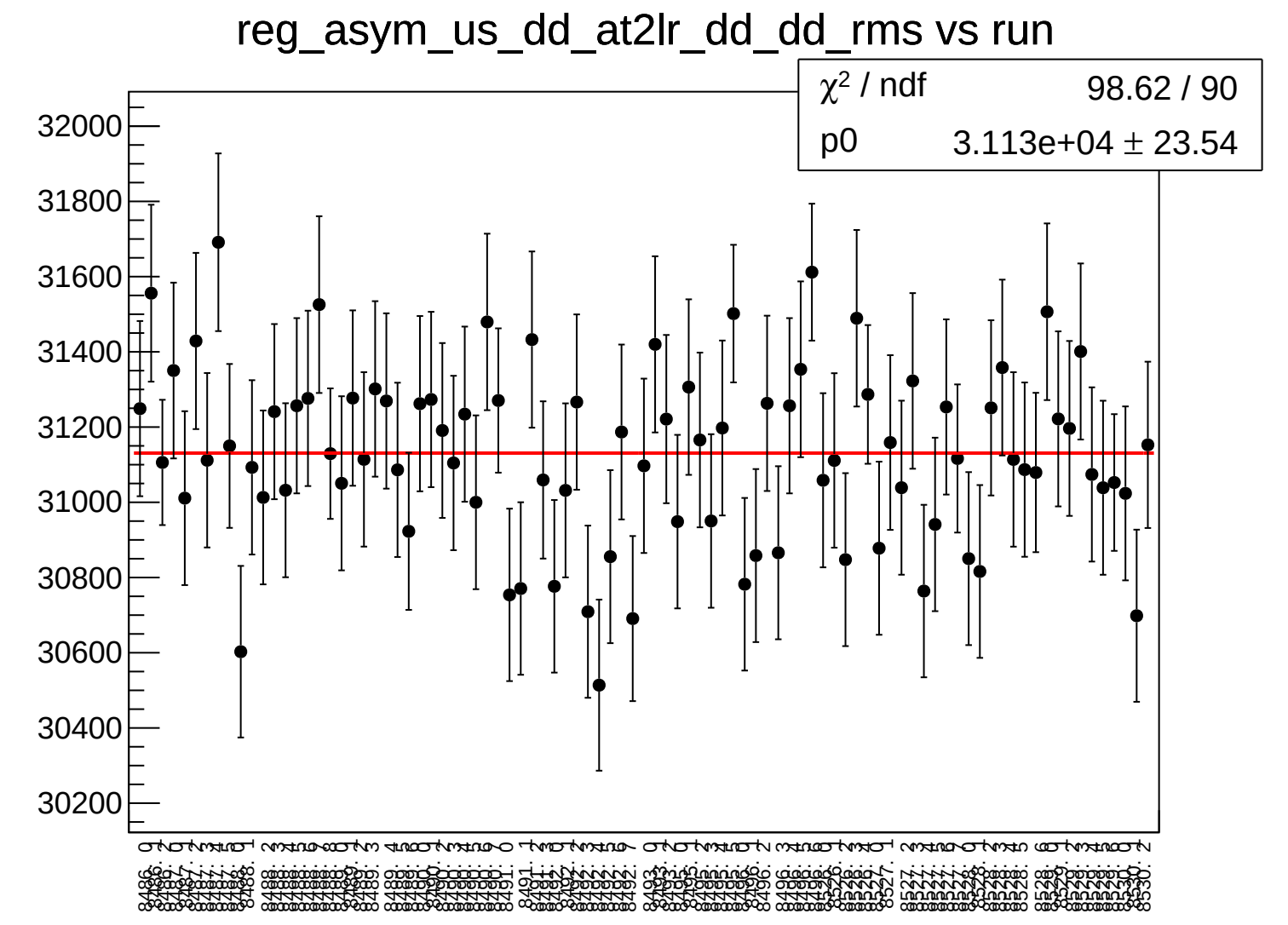

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.319e+05 / 90
p0 519 ± 0.4214
1200
1000
800
600
400
200

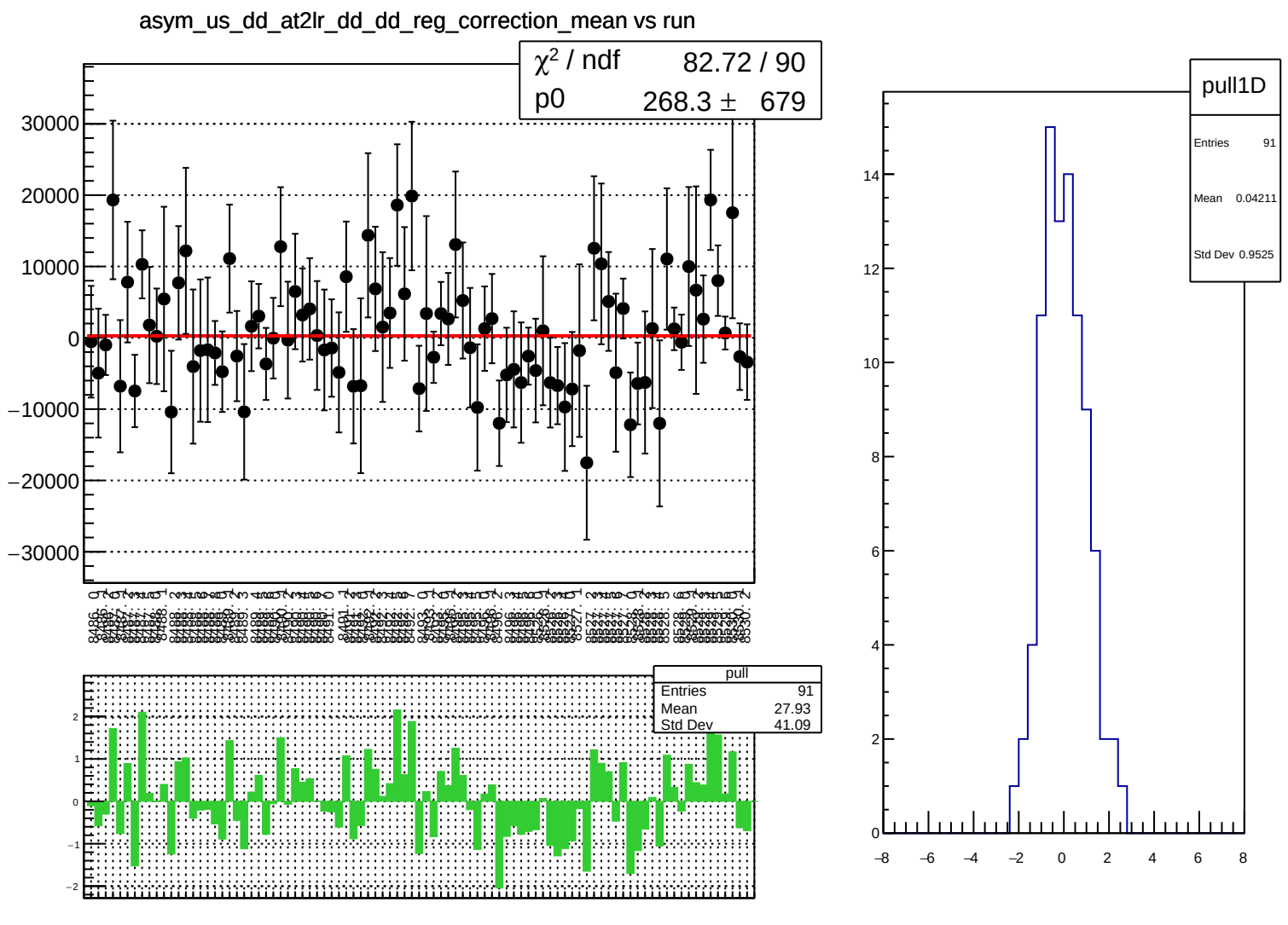

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.06 / 90
p0 1.952e−13 ± 1.881e−13
pull
Entries 91
Mean 406.3
Std Dev 0
pull1D
Entries 91
Mean 0.005583
Std Dev 0.9893

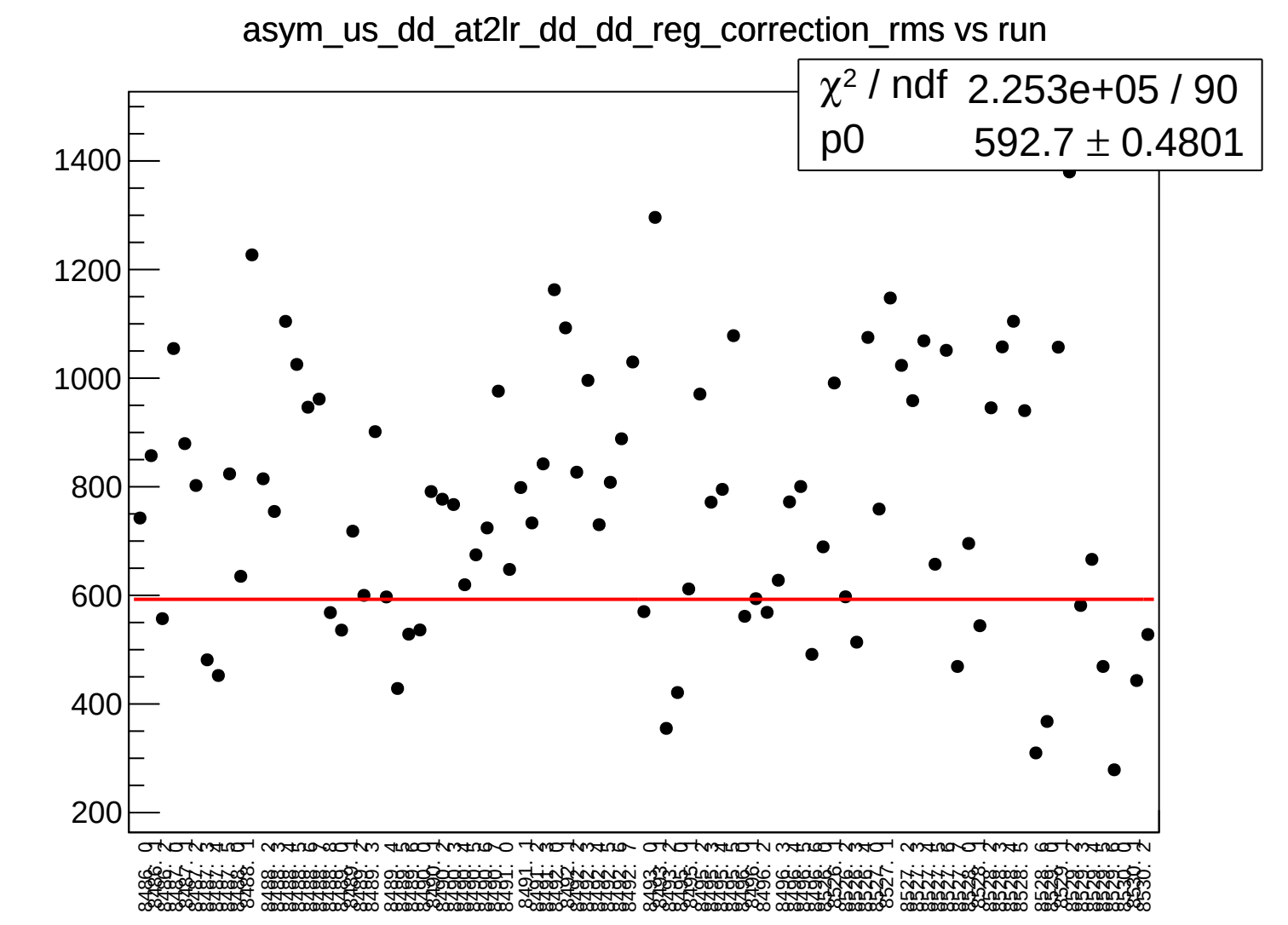

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
2.5
2
1.5
1
0.5
χ² / ndf 8.911e+05 / 90
p0 1.232e−10 ± 1.33e−13

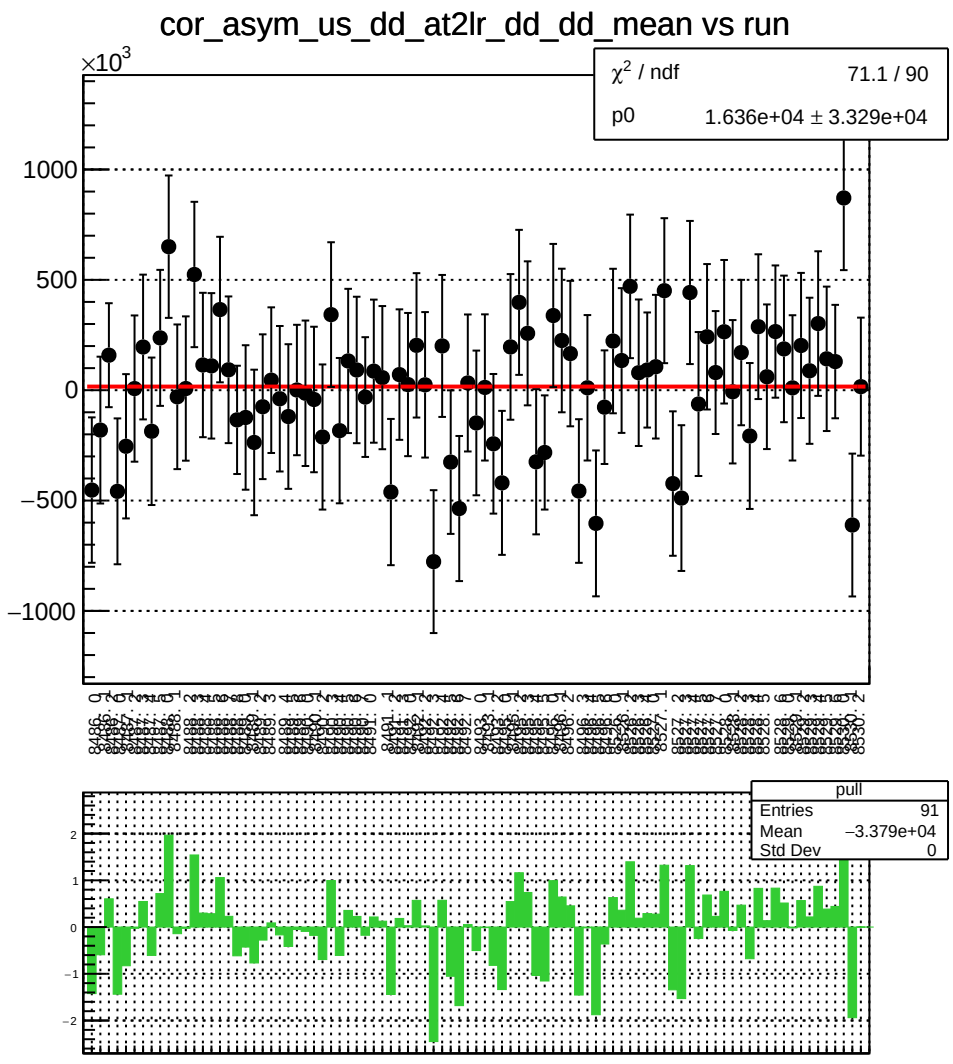

reg_asym_us_dd_at2lr_dd_dd_mean vs run
×10^3
χ² / ndf 71.11 / 90
p0 1.636e+04 ± 3.329e+04
1000
500
0
−500
−1000
pull
Entries 91
Mean −3.422e+04
Std Dev 0
2
1
0
−1
−2

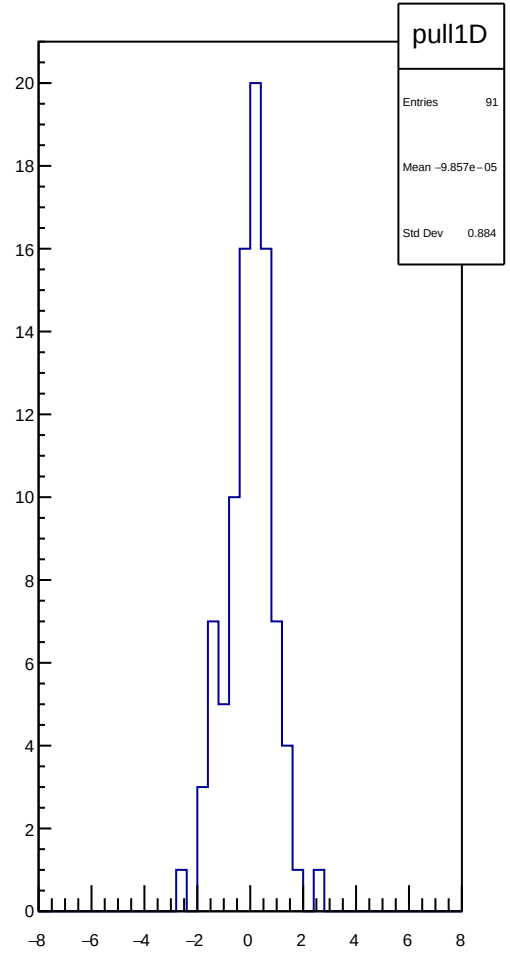

pull1D
Entries 91
Mean −9.732e−05
Std Dev 0.884
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

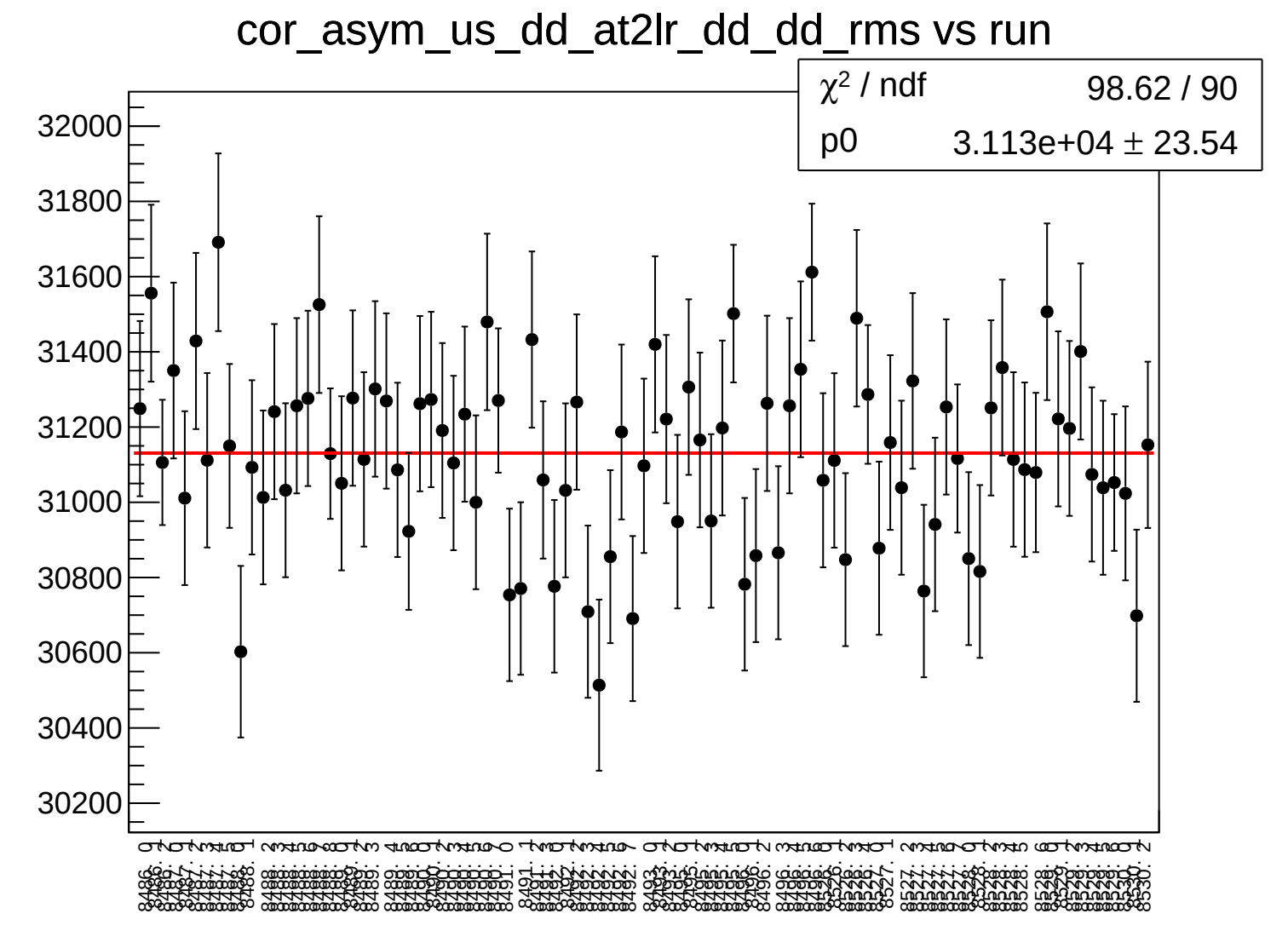

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 98.62 / 90
p0 3.113e+04 ± 23.54
32000
31800
31600
31400
31200
31000
30800
30600
30400
30200

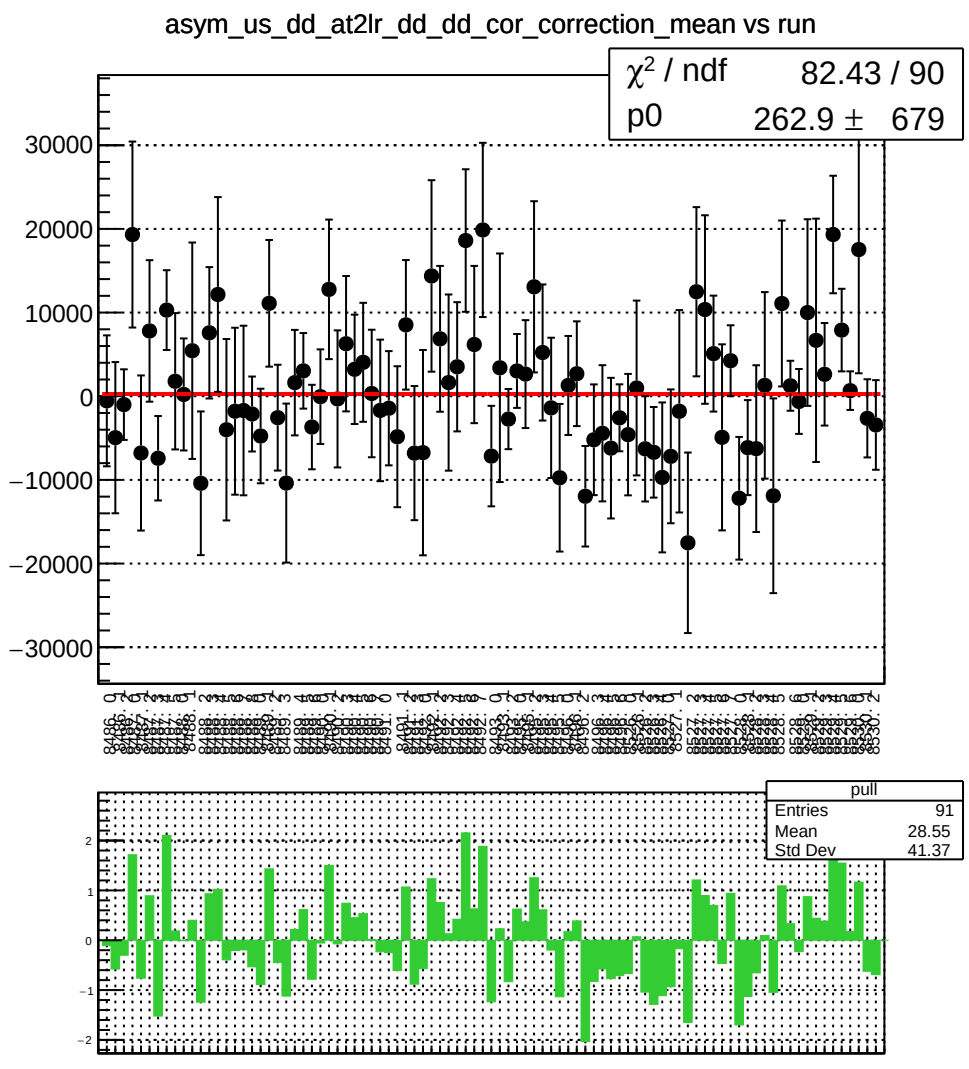

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 82.72 / 90
p0 268.3 ± 679
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 27.93
Std Dev 41.09
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.04211
Std Dev 0.9525
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

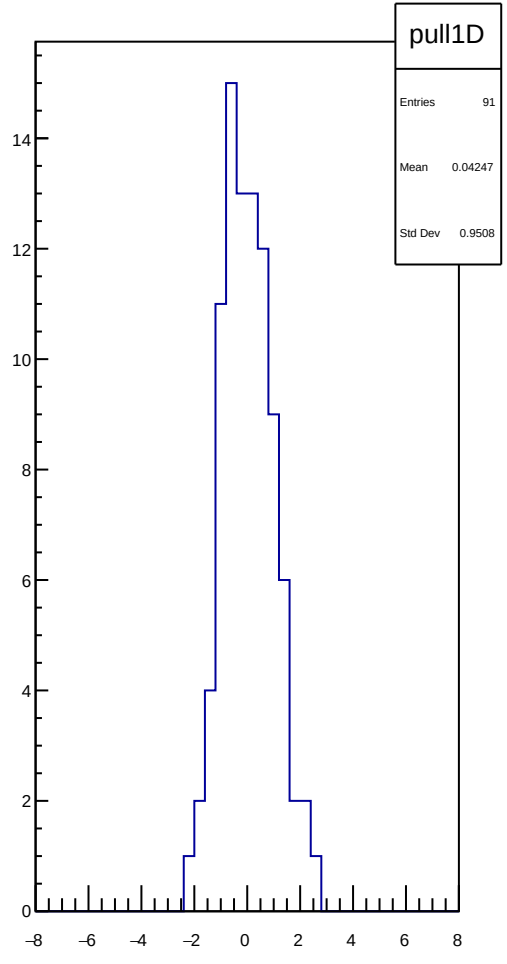

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 2.253e+05 / 90
p0 592.7 ± 0.4801
1400
1200
1000
800
600
400
200


cor_asym_us_dd_at2lr_dd_dd_mean vs run
×10^3
χ² / ndf 71.1 / 90
p0 1.636e+04 ± 3.329e+04
1000
500
0
−500
−1000
pull
Entries 91
Mean −3.379e+04
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 91
Mean −9.857e−05
Std Dev 0.884
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 98.62 / 90
p0 3.113e+04 ± 23.54
32000
31800
31600
31400
31200
31000
30800
30600
30400
30200


asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 82.43 / 90
p0 262.9 ± 679
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 28.55
Std Dev 41.37
2
1
0
−1
−2


pull1D
Entries 91
Mean 0.04247
Std Dev 0.9508
14
12
10
8
6
4
2
0
−8
−6
−4
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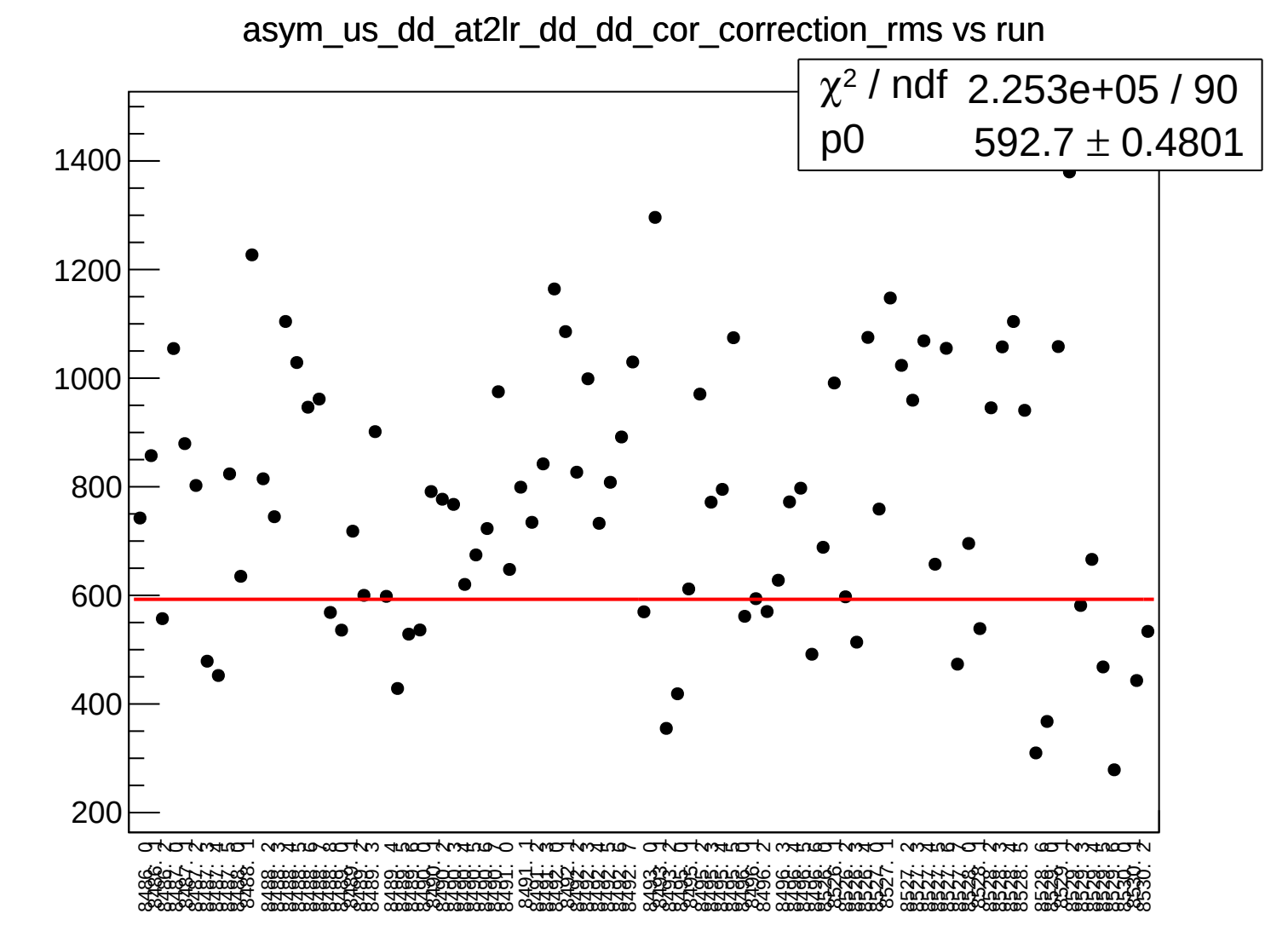
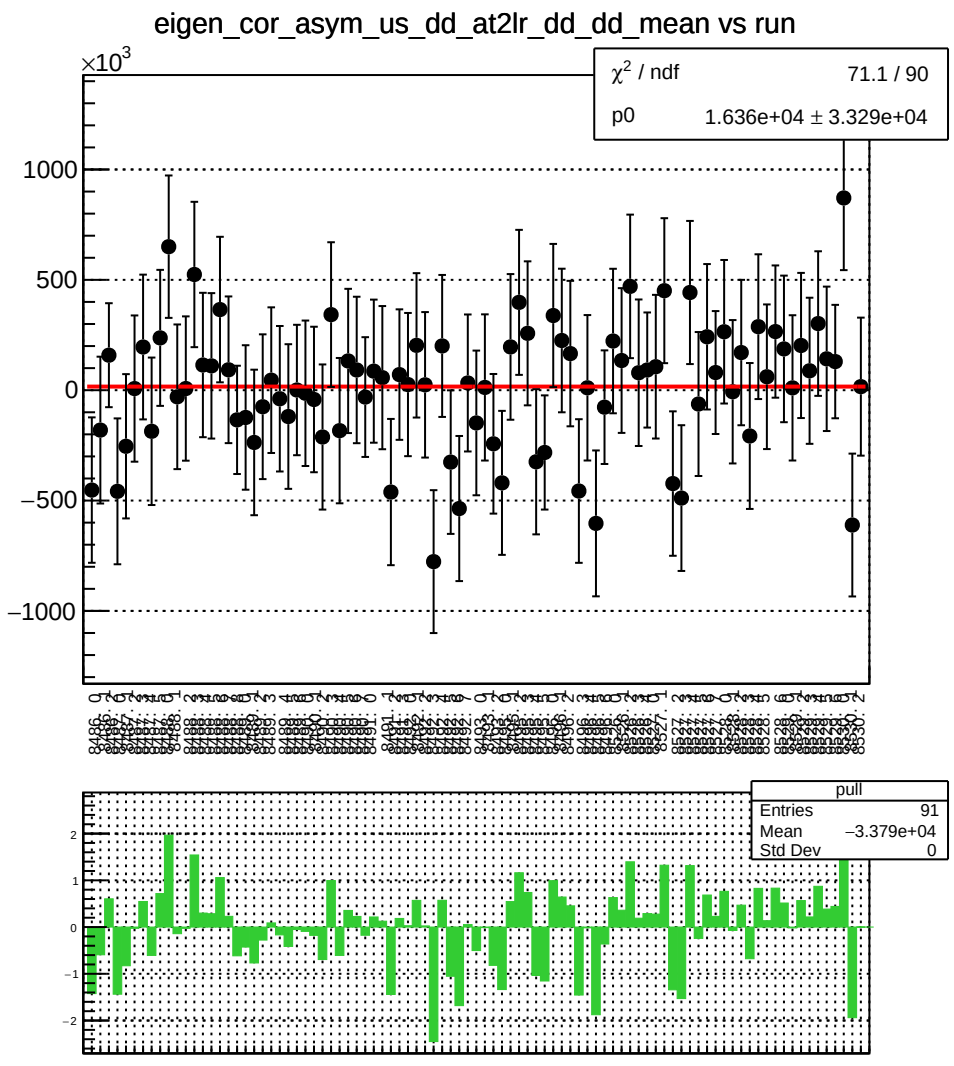
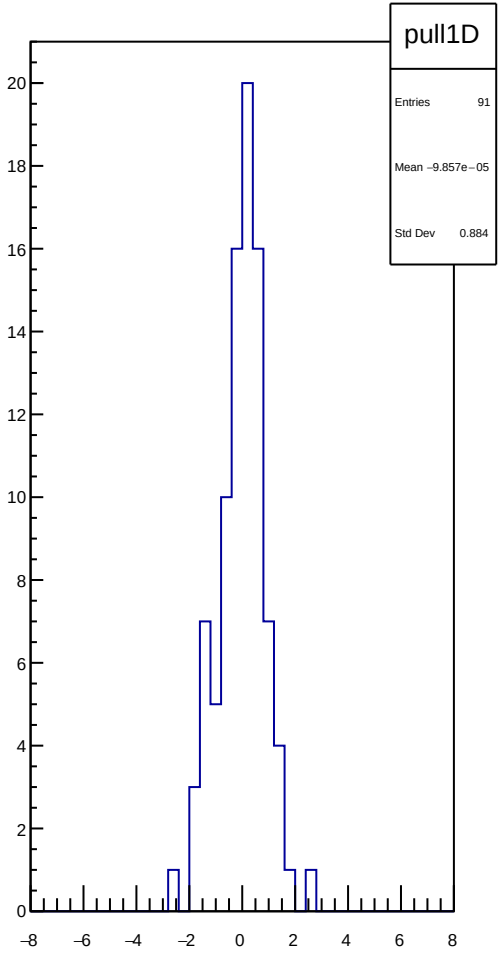
0
2
4
6
8


asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 2.253e+05 / 90
p0 592.7 ± 0.4801
1400
1200
1000
800
600
400
200


eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
×10^3
χ² / ndf 71.1 / 90
p0 1.636e+04 ± 3.329e+04
1000
500
0
−500
−1000
pull
Entries 91
Mean −3.379e+04
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 91
Mean −9.857e−05
Std Dev 0.884
20
18
16
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10
8
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6
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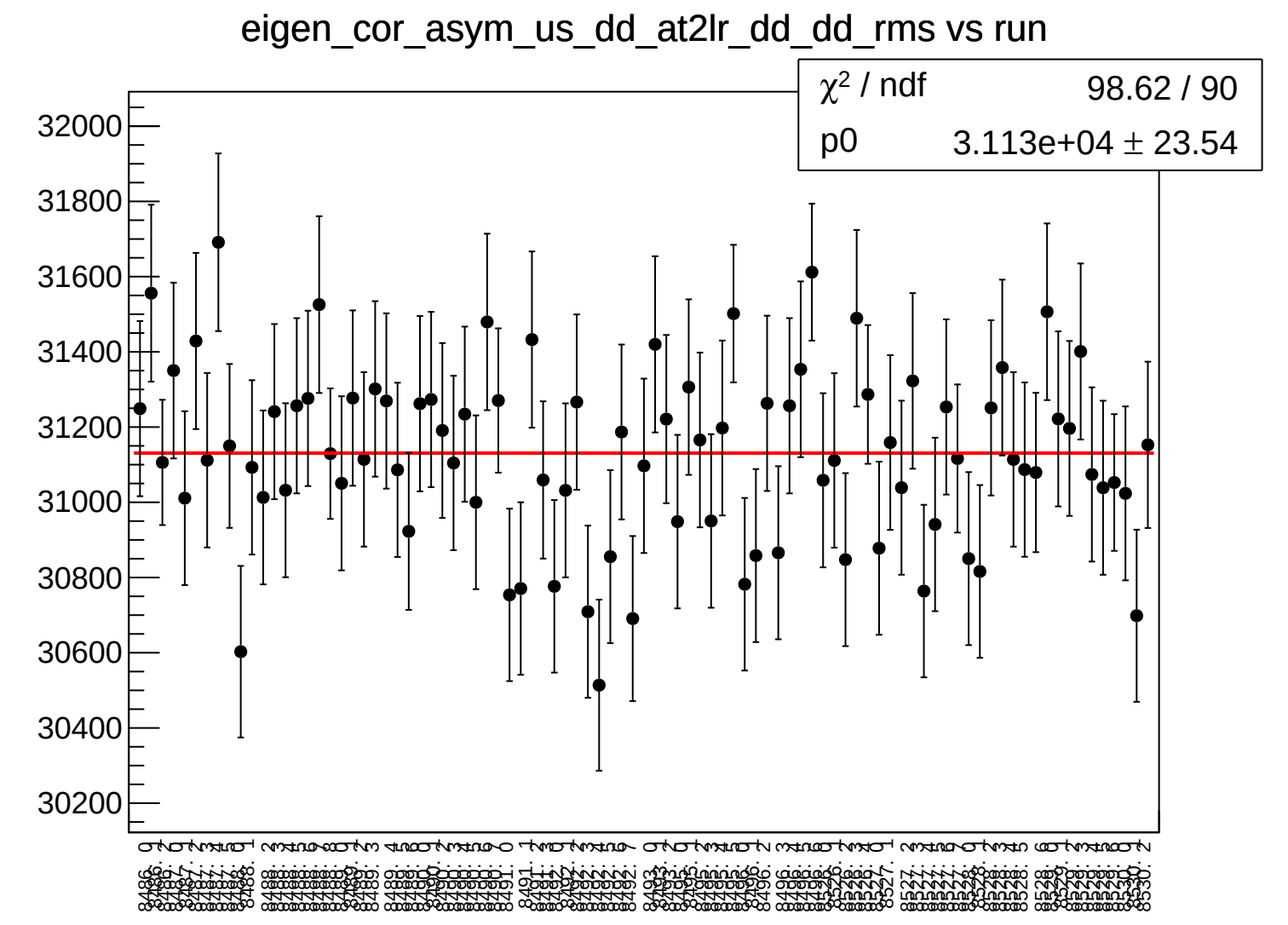
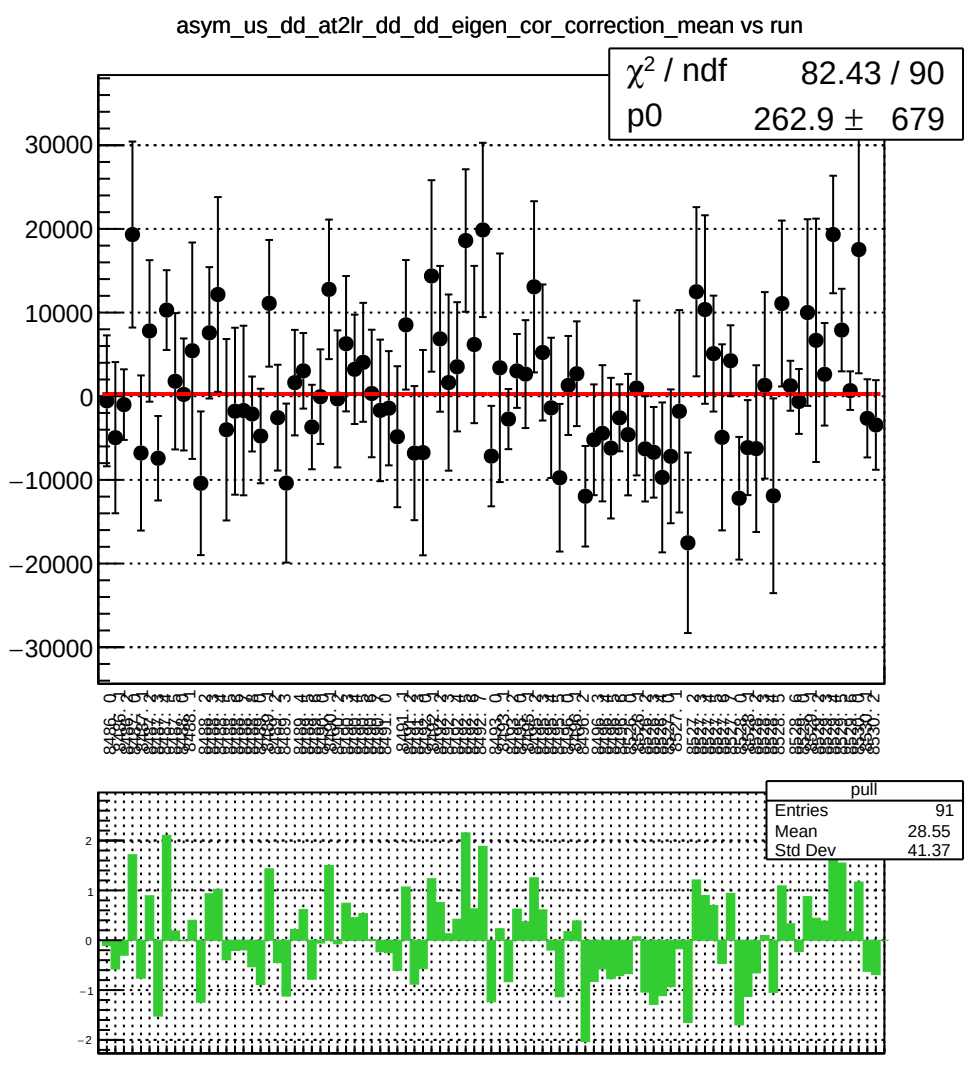
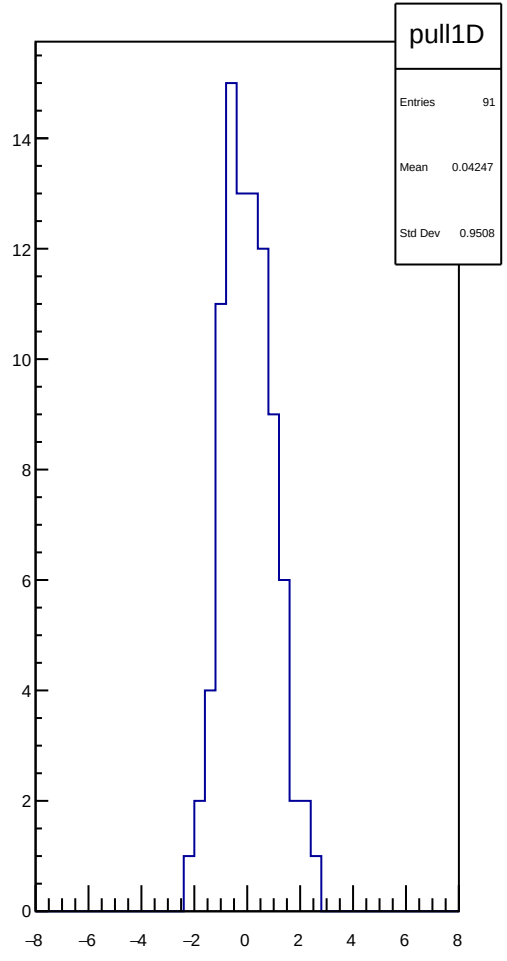

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 98.62 / 90
p0 3.113e+04 ± 23.54
32000
31800
31600
31400
31200
31000
30800
30600
30400
30200


asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 82.43 / 90
p0 262.9 ± 679
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 28.55
Std Dev 41.37
2
1
0
−1
−2


pull1D
Entries 91
Mean 0.04247
Std Dev 0.9508
14
12
10
8
6
4
2
0
−8
−6
−4
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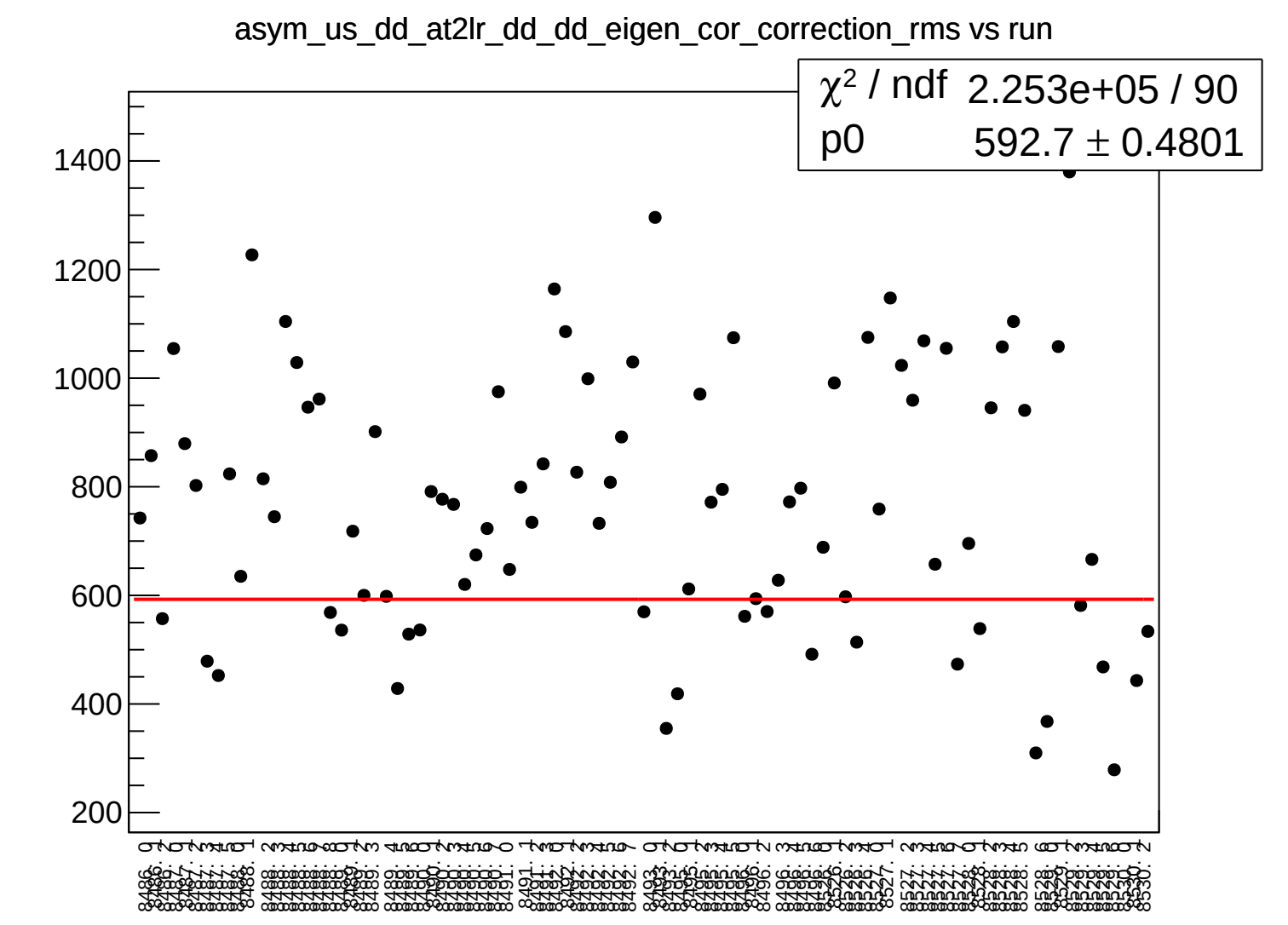
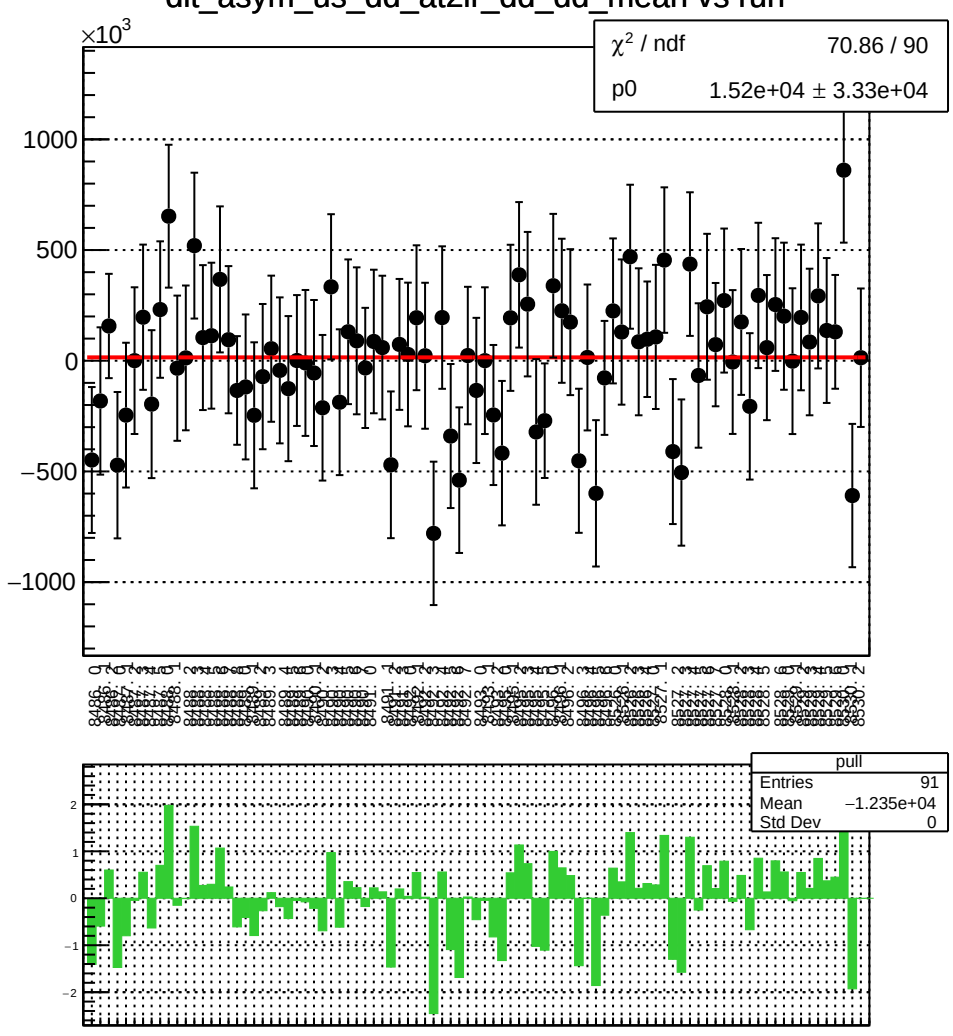
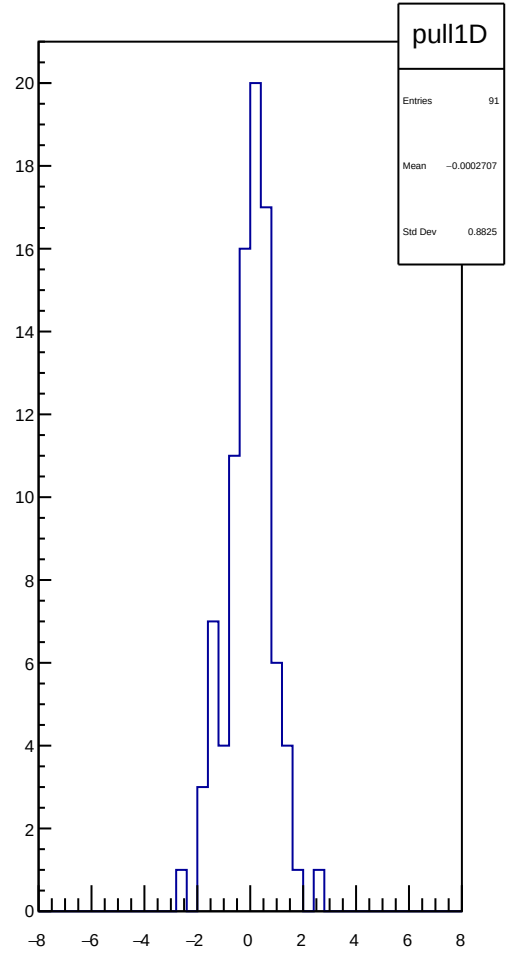
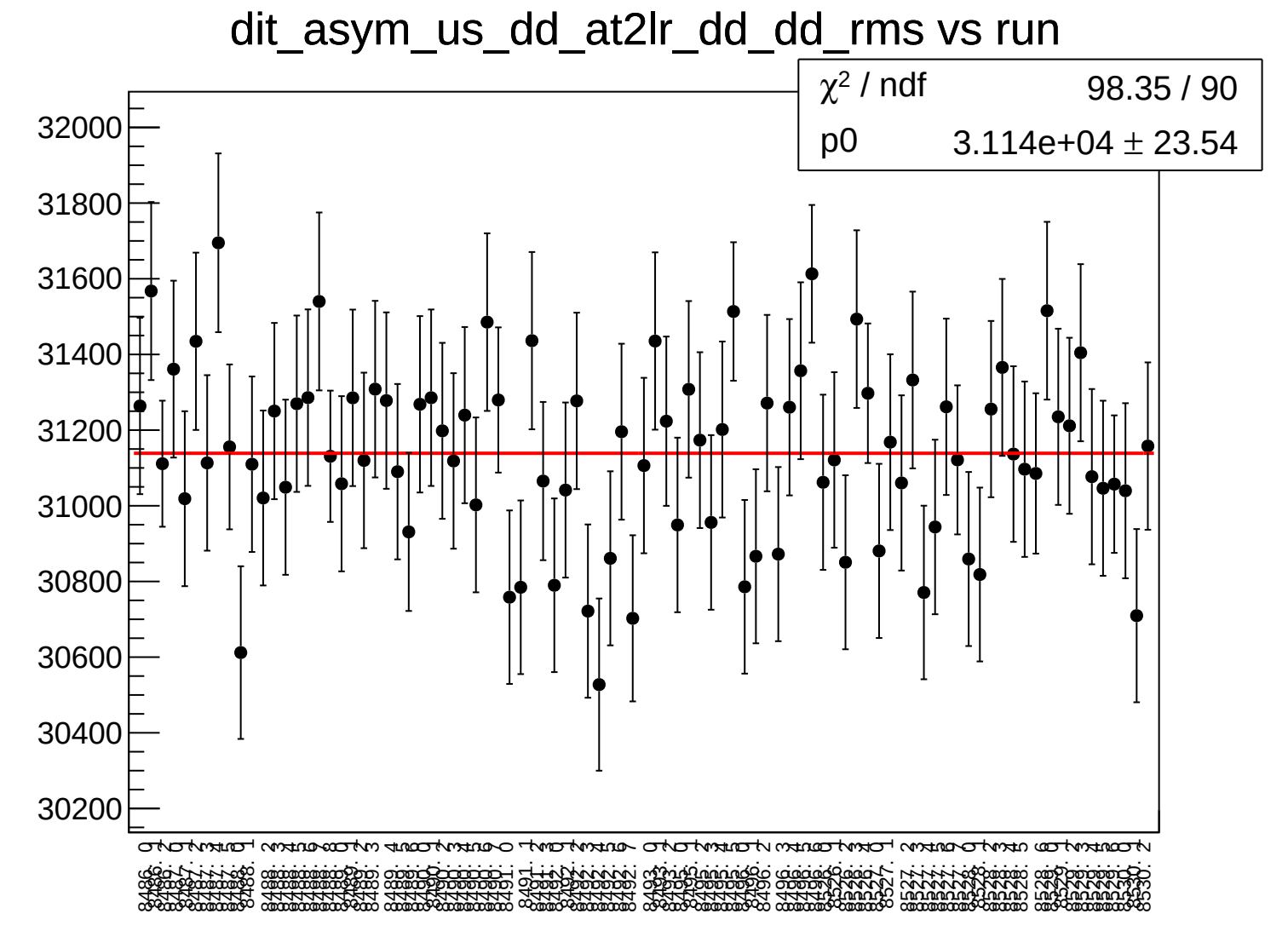
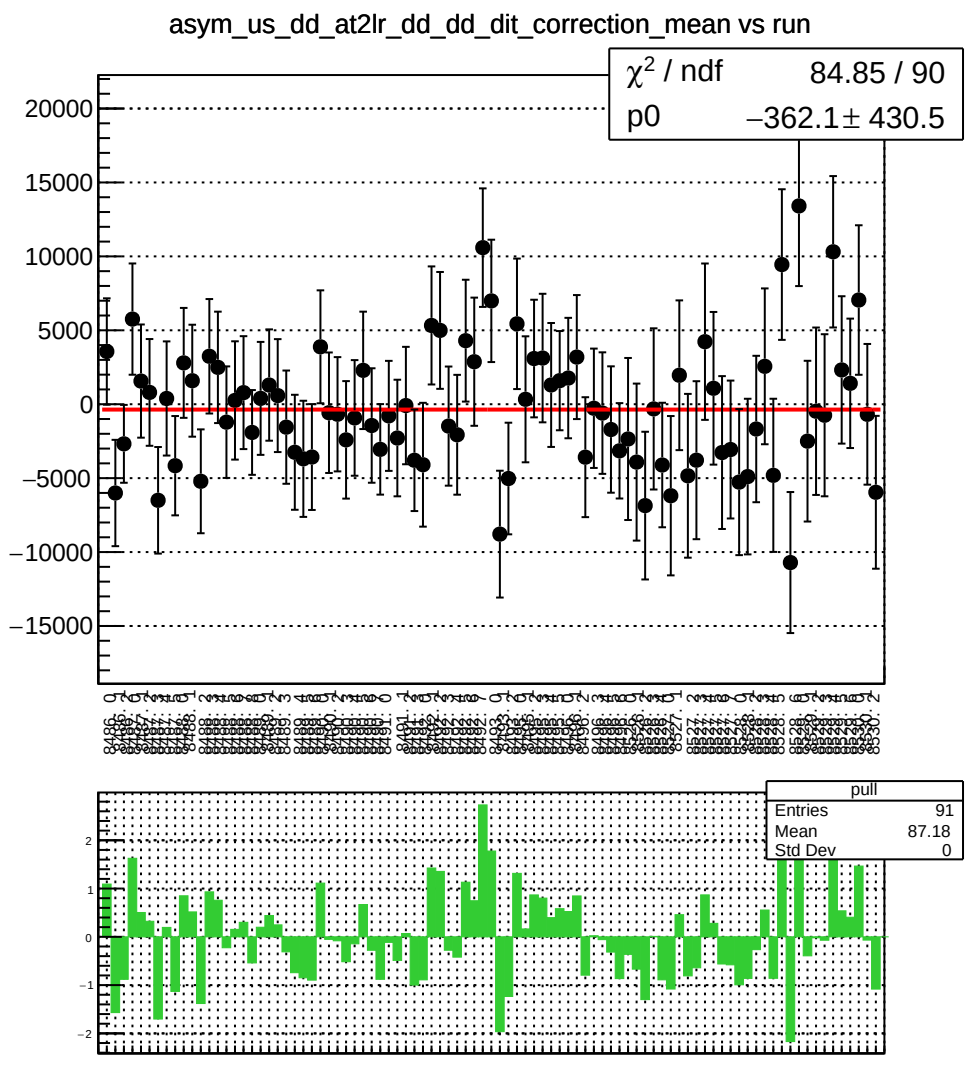
2
4
6
8

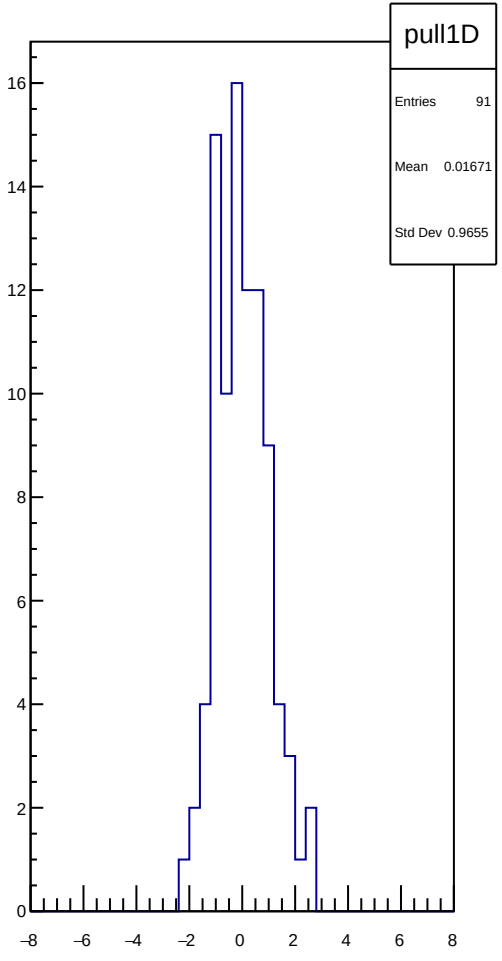

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.253e+05 / 90
p0 592.7 ± 0.4801
1400
1200
1000
800
600
400
200

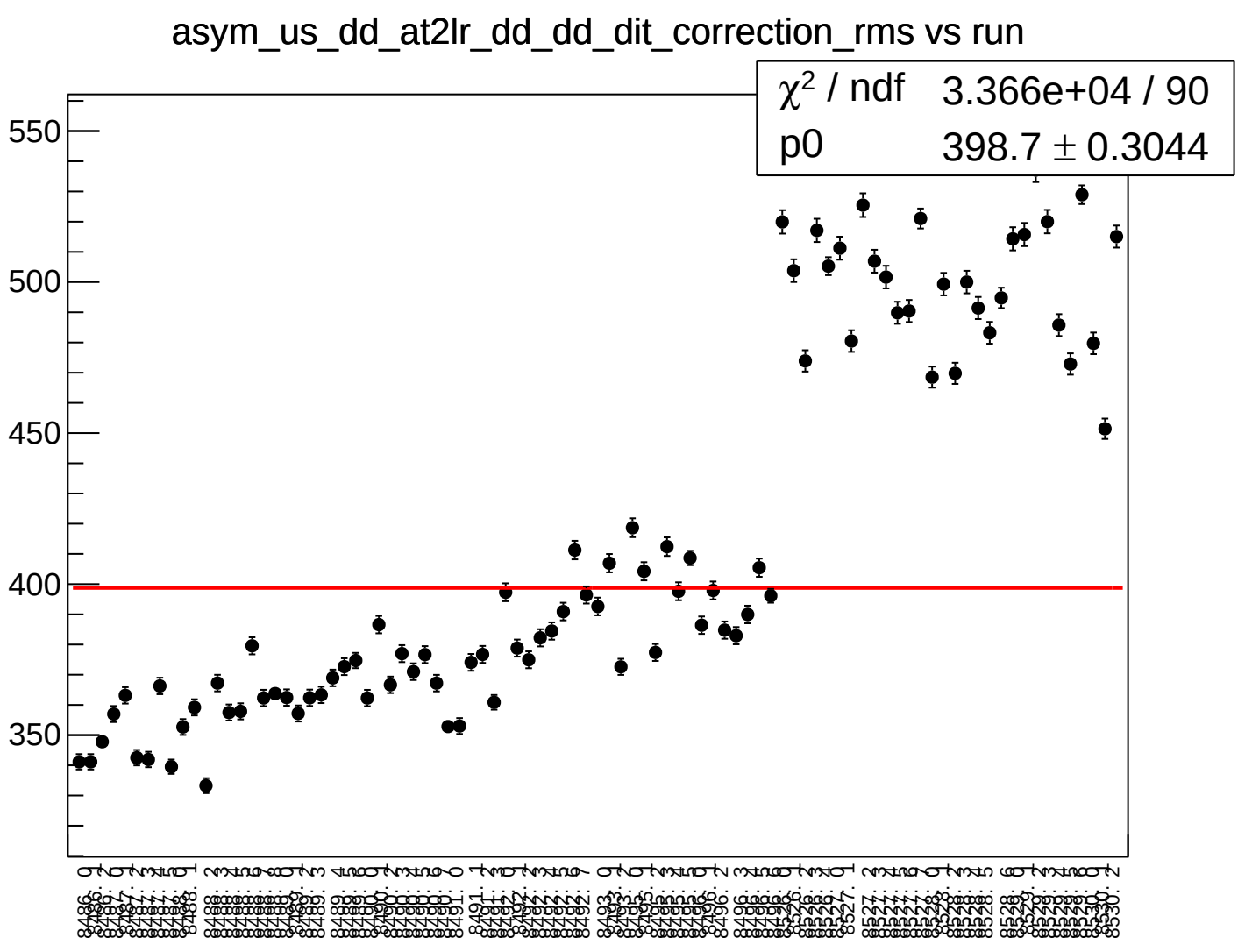

dit_asym_us_dd_at2lr_dd_dd_mean vs run
×10^3
χ² / ndf 70.86 / 90
p0 1.52e+04 ± 3.33e+04
1000
500
0
−500
−1000
pull
Entries 91
Mean −1.235e+04
Std Dev 0
2
1
0
−1
−2

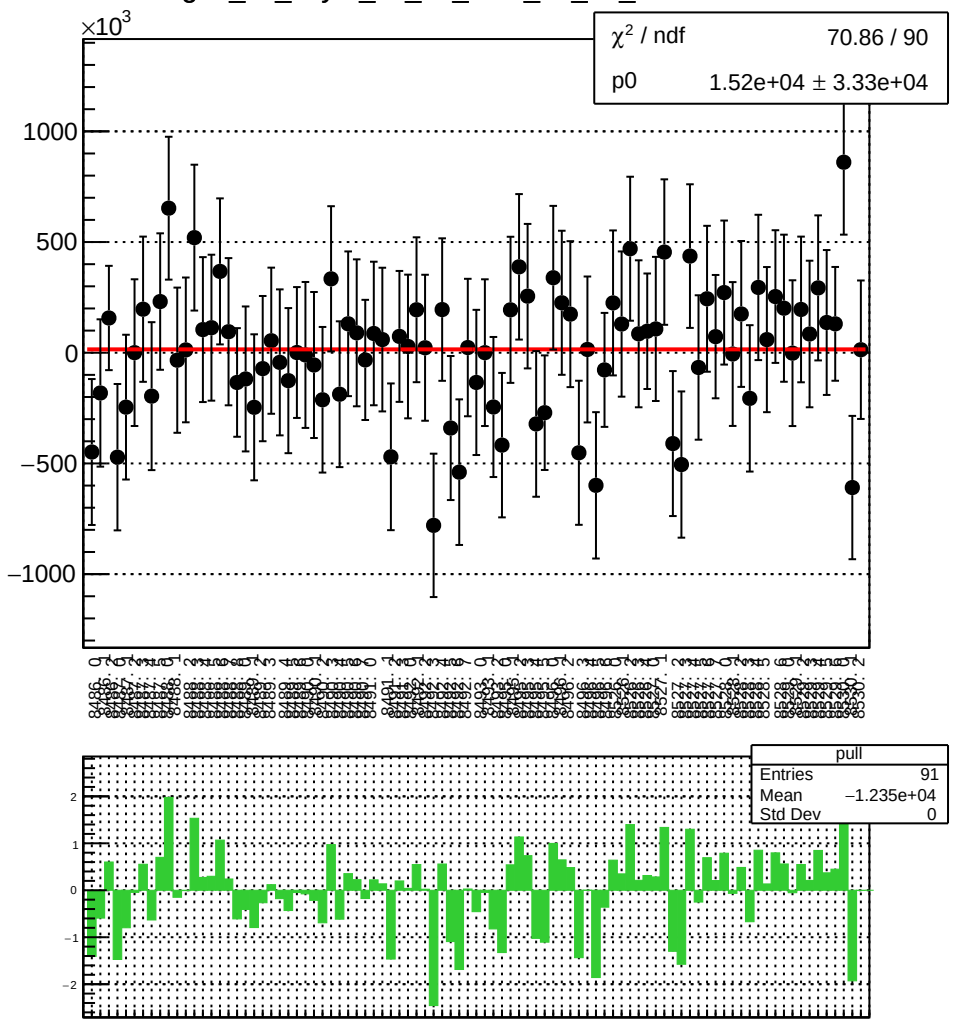

pull1D
Entries 91
Mean −0.0002707
Std Dev 0.8825
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

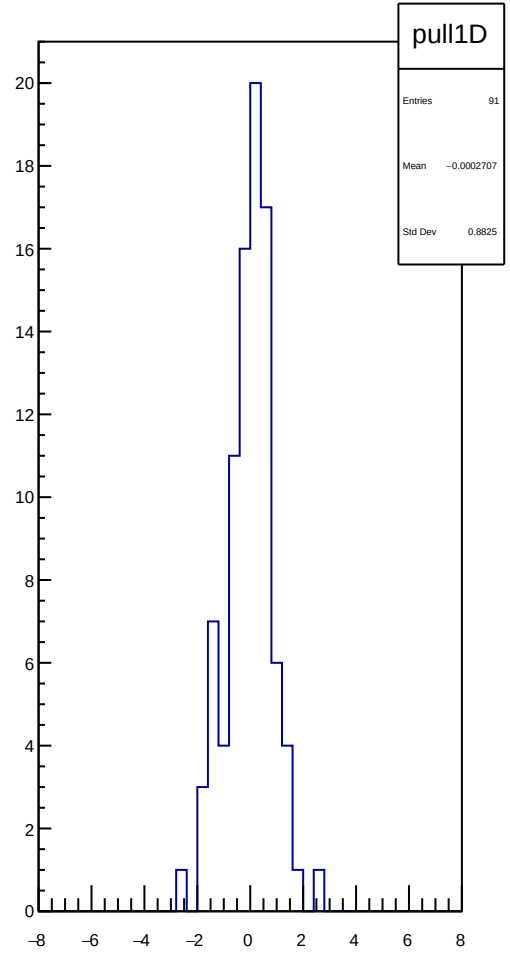

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ^2 / ndf 98.35 / 90
p0 3.114e+04 ± 23.54
32000
31800
31600
31400
31200
31000
30800
30600
30400
30200

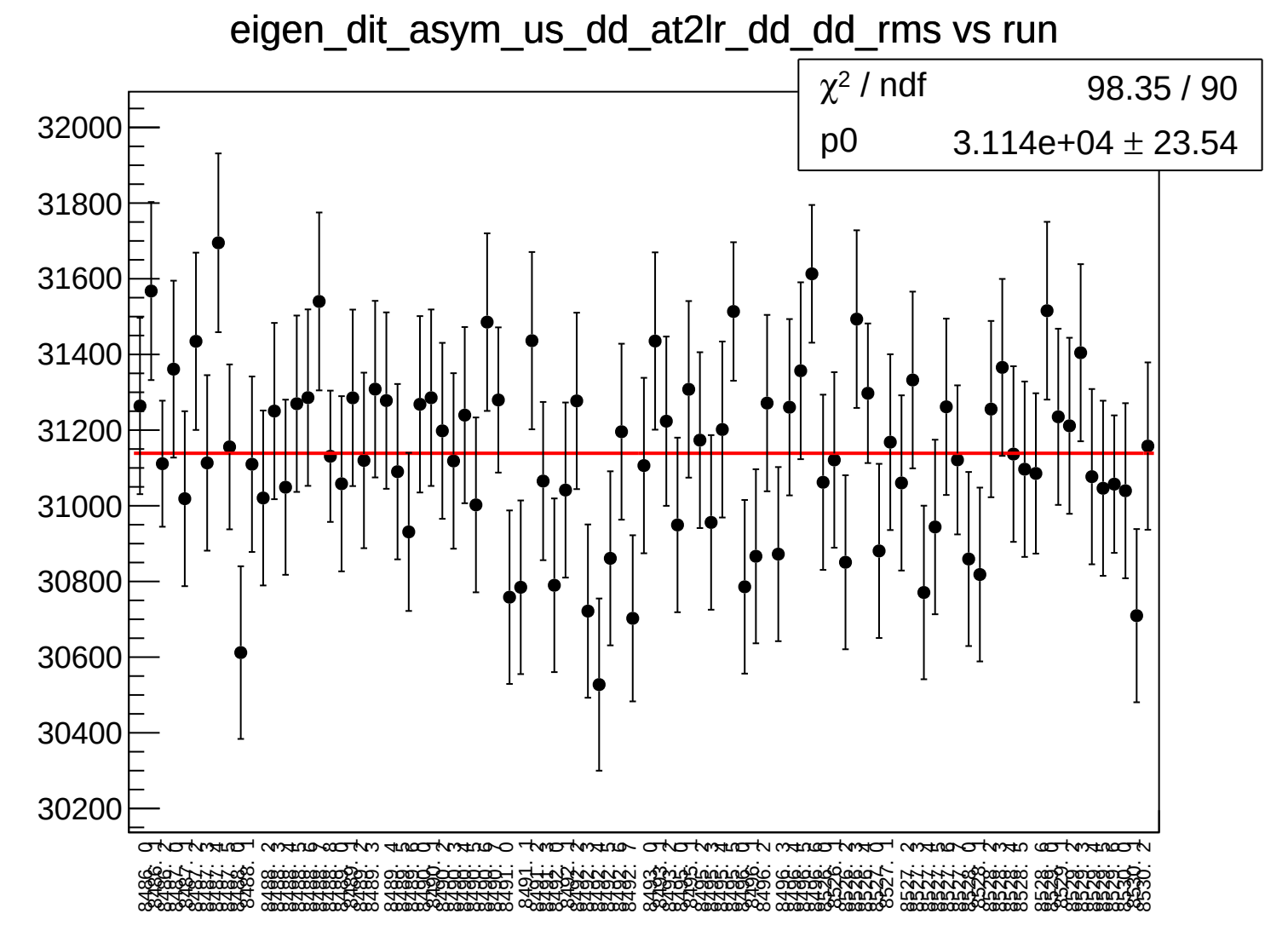

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 84.85 / 90
p0 −362.1± 430.5
pull
Entries 91
Mean 87.18
Std Dev 0

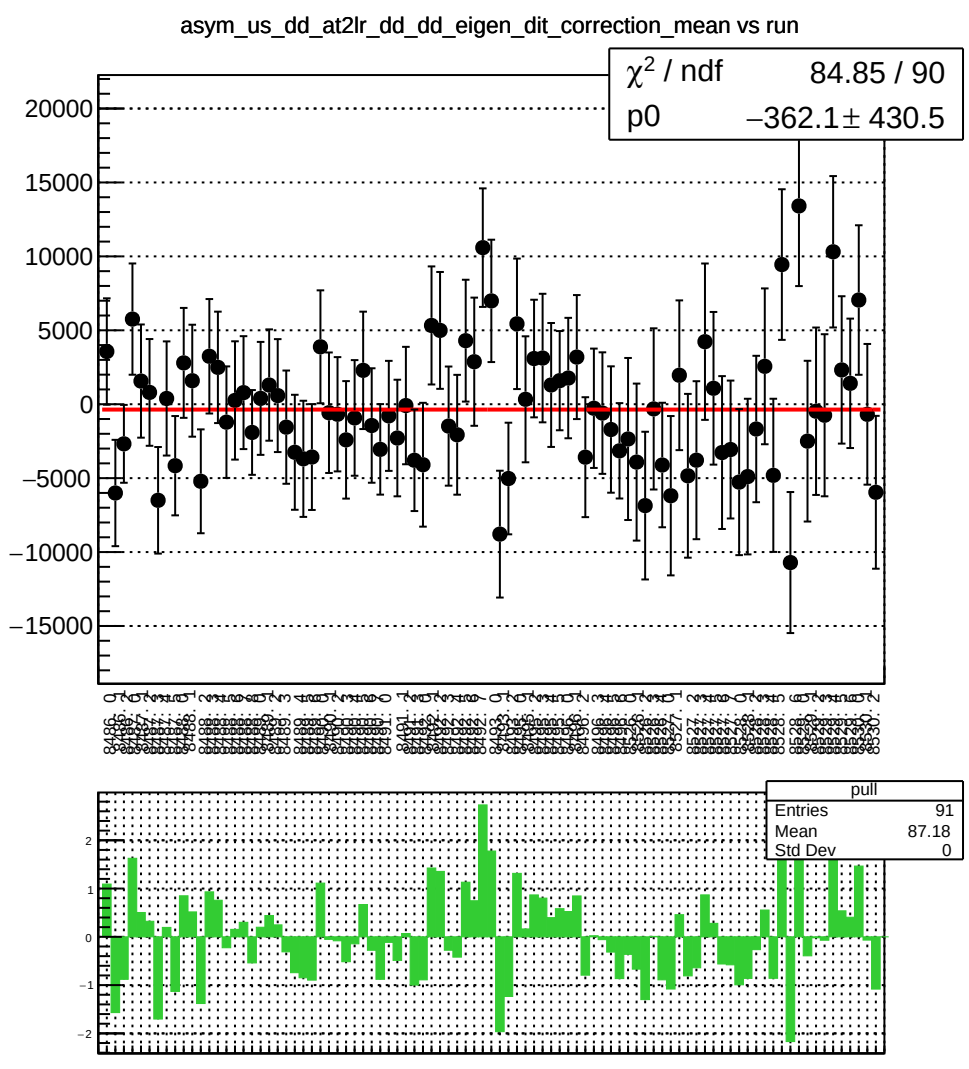

pull1D
Entries 91
Mean 0.01671
Std Dev 0.9655

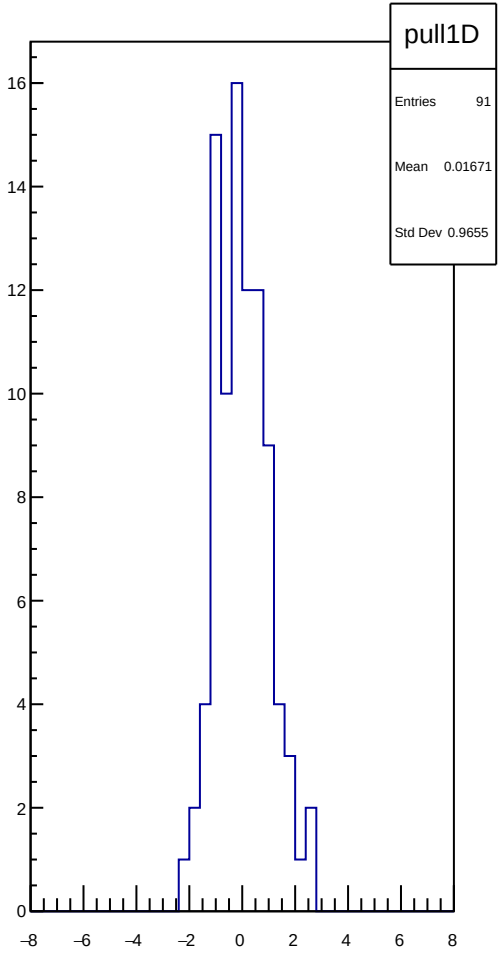

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 3.366e+04 / 90
p0 398.7 ± 0.3044
550
500
450
400
350

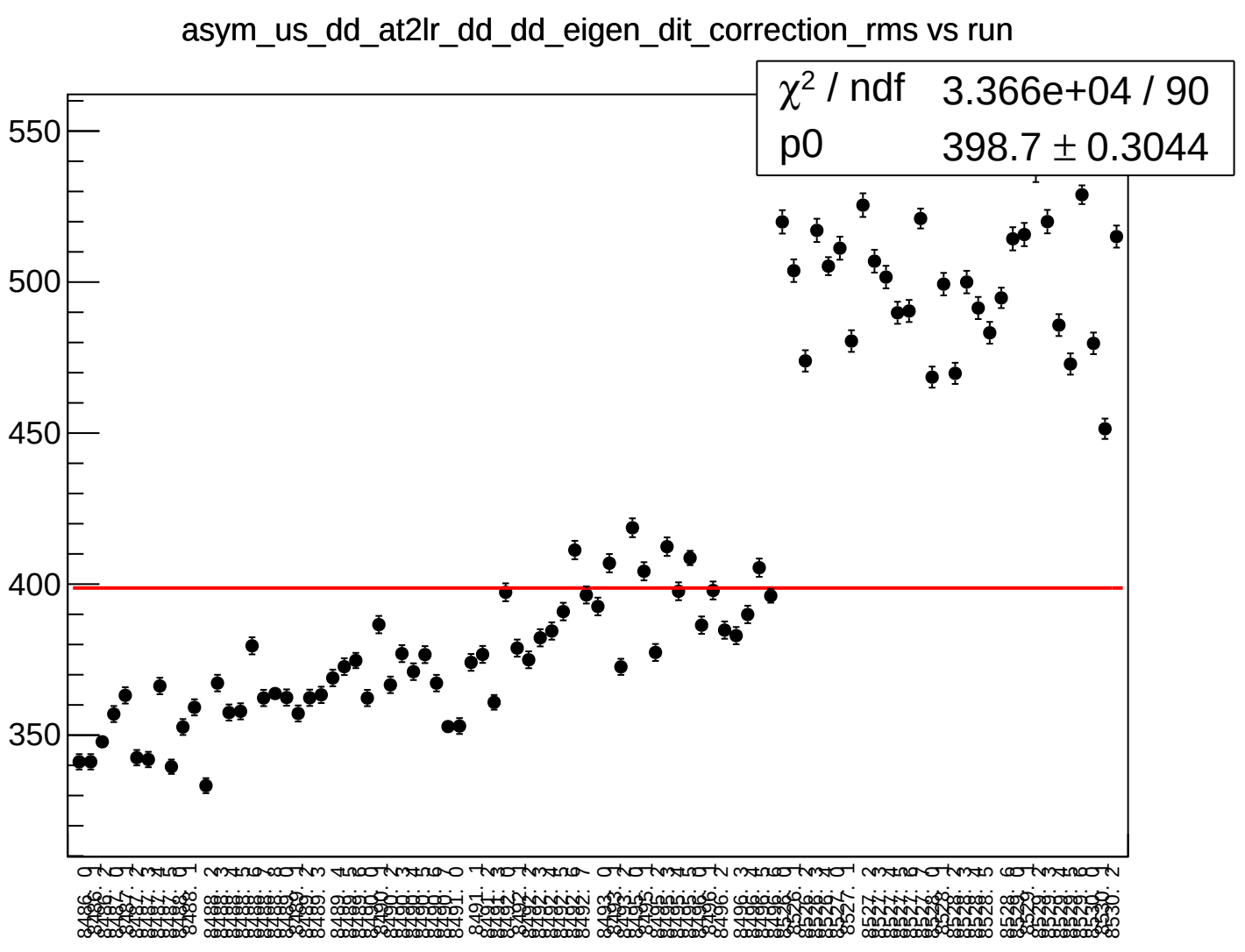

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
×10^3
χ² / ndf 70.86 / 90
p0 1.52e+04 ± 3.33e+04
1000
500
0
−500
−1000
pull
Entries 91
Mean −1.235e+04
Std Dev 0
2
1
0
−1
−2

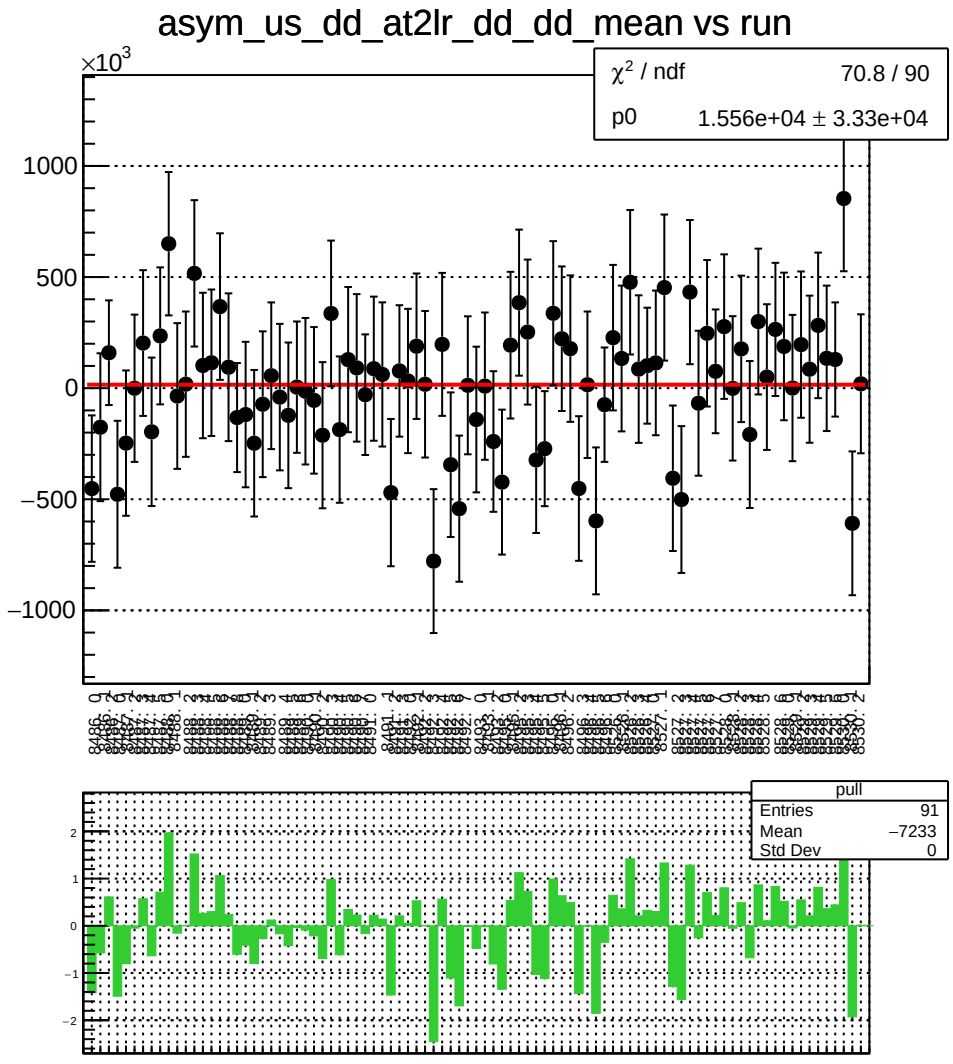

pull1D
Entries 91
Mean −0.0002707
Std Dev 0.8825
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

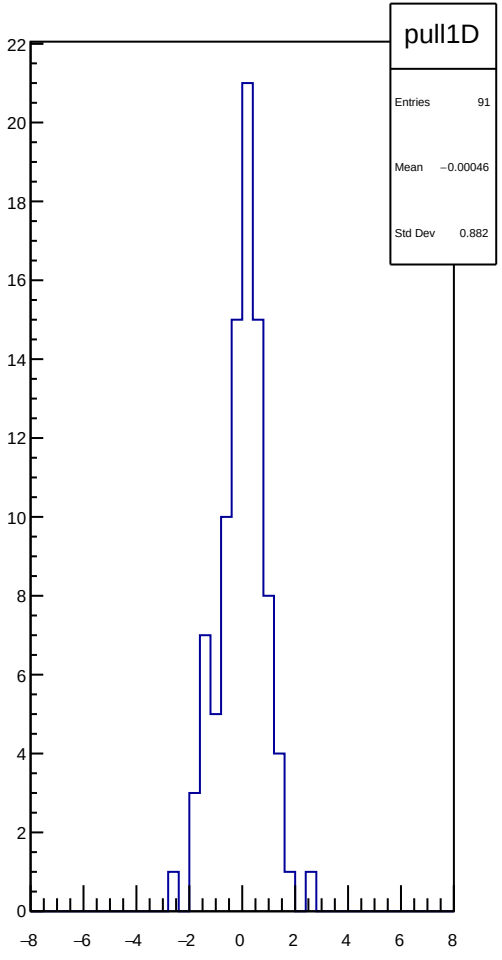

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 98.35 / 90
p0 3.114e+04 ± 23.54
32000
31800
31600
31400
31200
31000
30800
30600
30400
30200

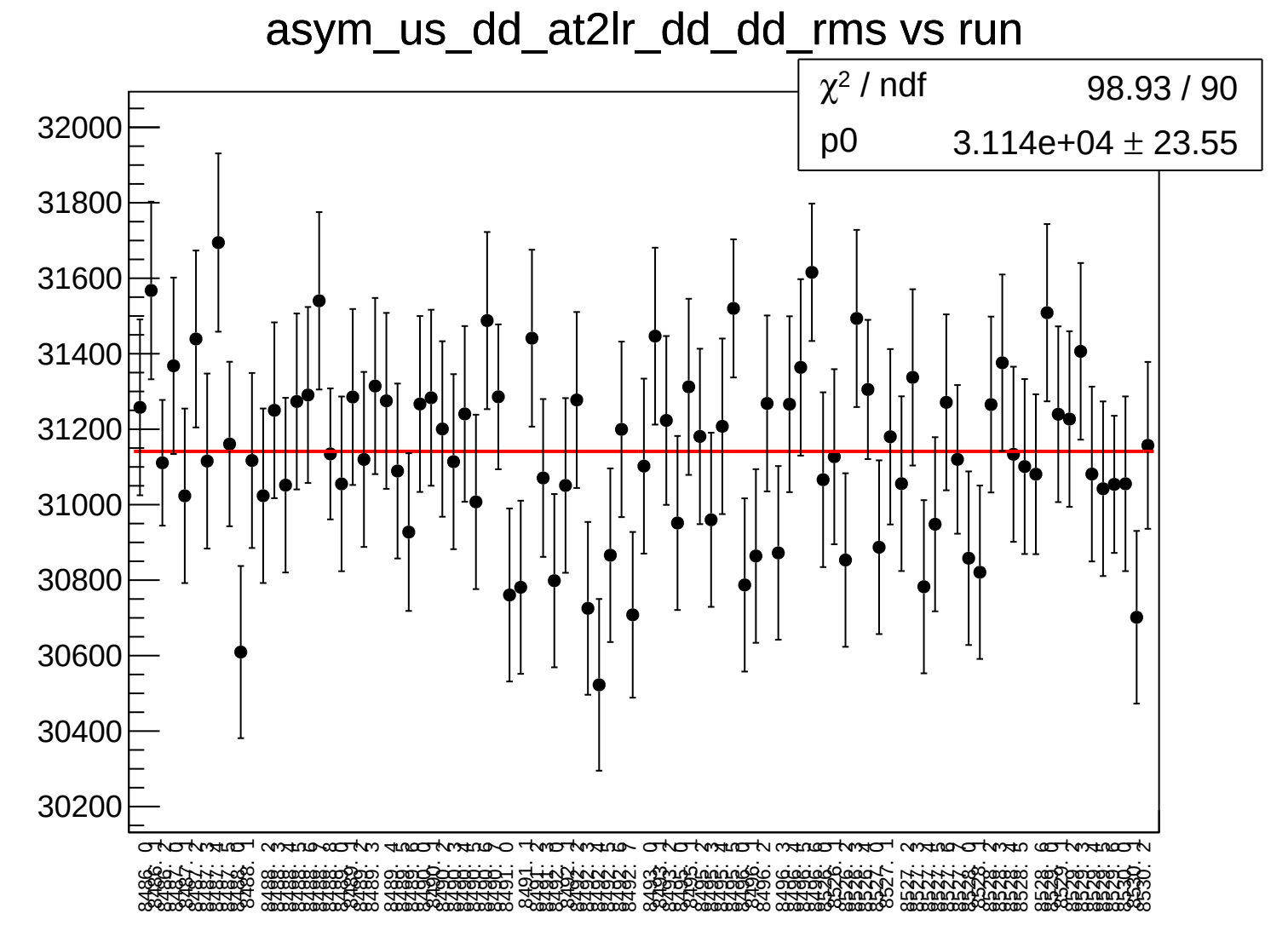

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 84.85 / 90
p0 −362.1± 430.5
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 87.18
Std Dev 0
2
1
0
−1
−2

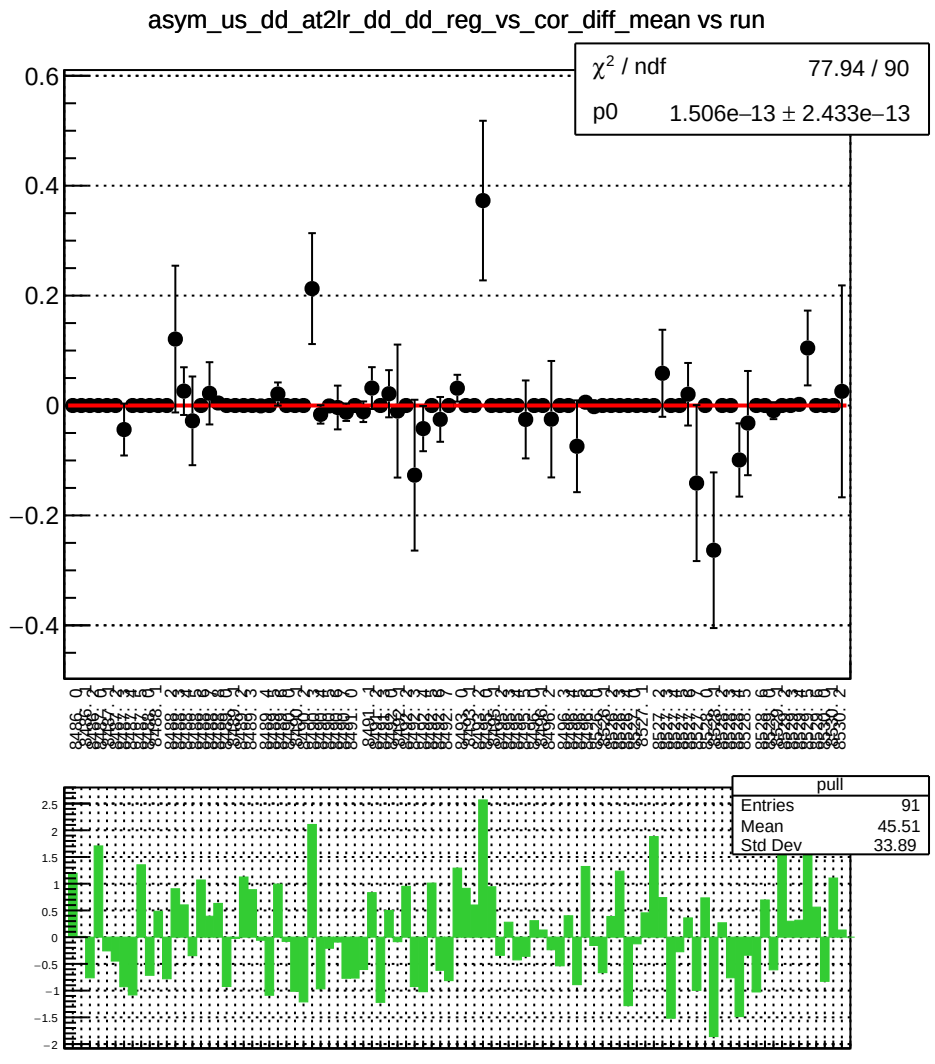

pull1D
Entries 91
Mean 0.01671
Std Dev 0.9655
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

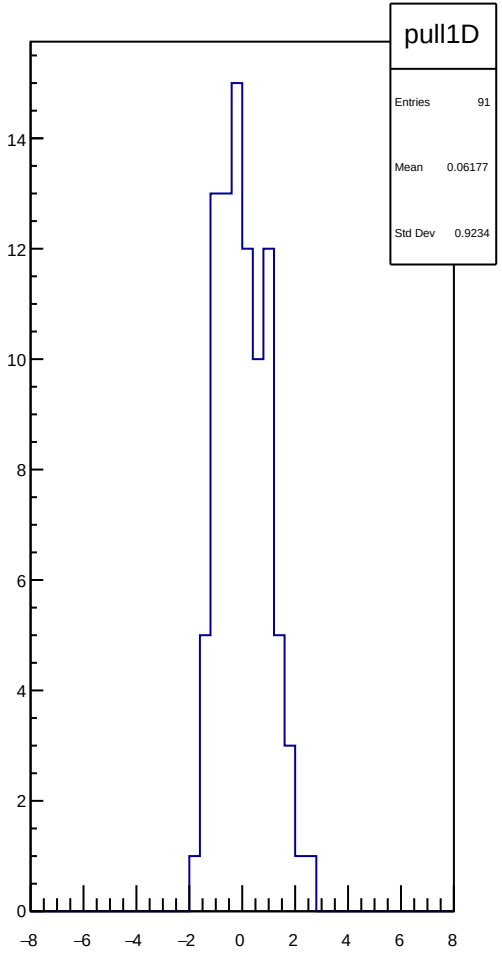

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.366e+04 / 90
p0 398.7 ± 0.3044
550
500
450
400
350

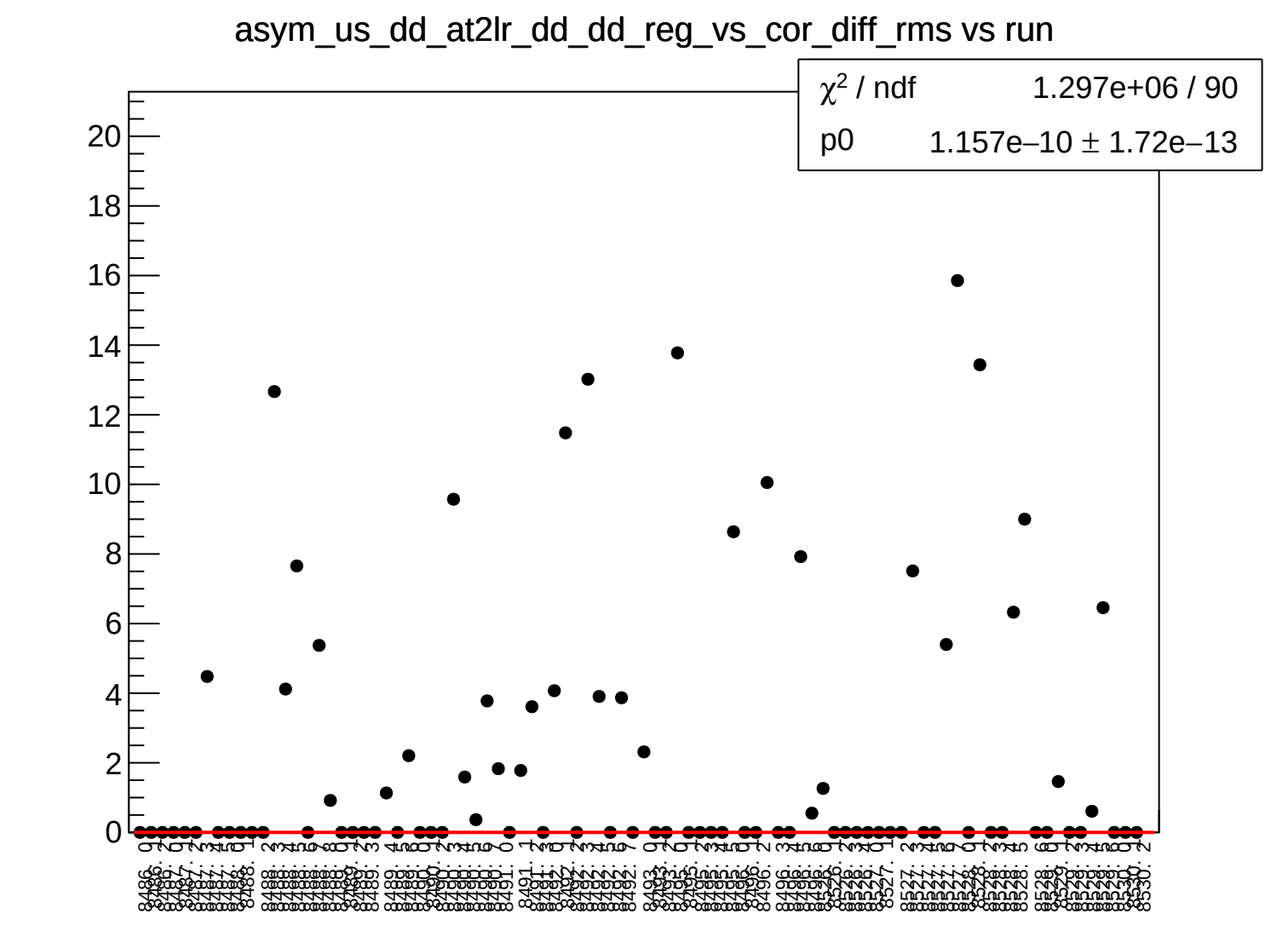

asym_us_dd_at2lr_dd_dd_mean vs run
×10^3
χ² / ndf 70.8 / 90
p0 1.556e+04 ± 3.33e+04
1000
500
0
−500
−1000
pull
Entries 91
Mean −7233
Std Dev 0
2
1
0
−1
−2

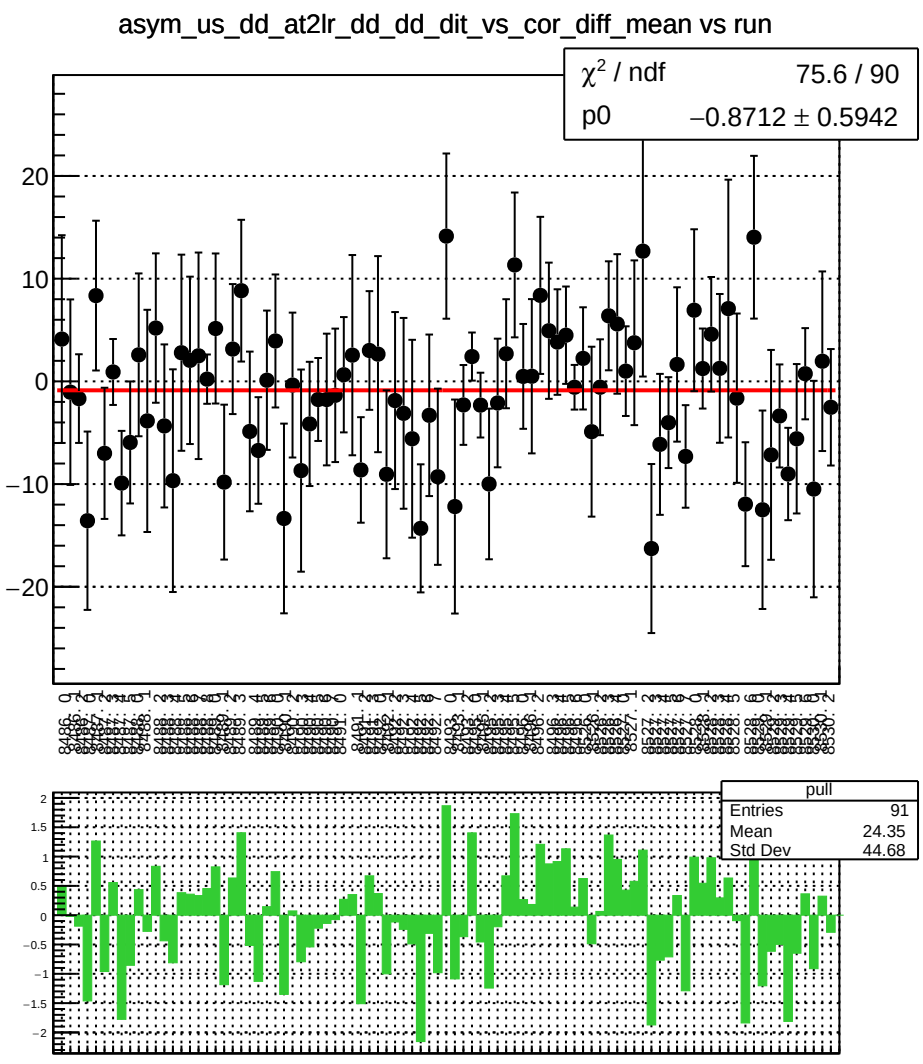

pull1D
Entries 91
Mean −0.00046
Std Dev 0.882
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

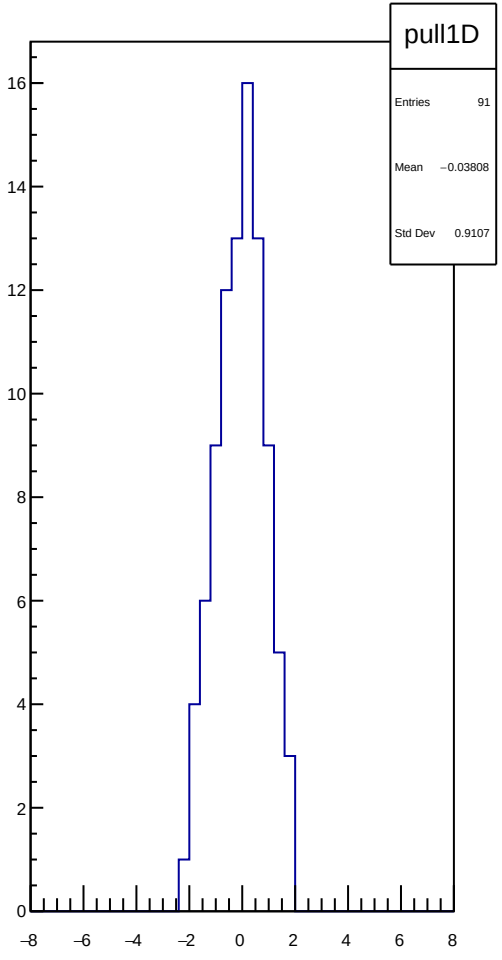

asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 98.93 / 90
p0 3.114e+04 ± 23.55
32000
31800
31600
31400
31200
31000
30800
30600
30400
30200

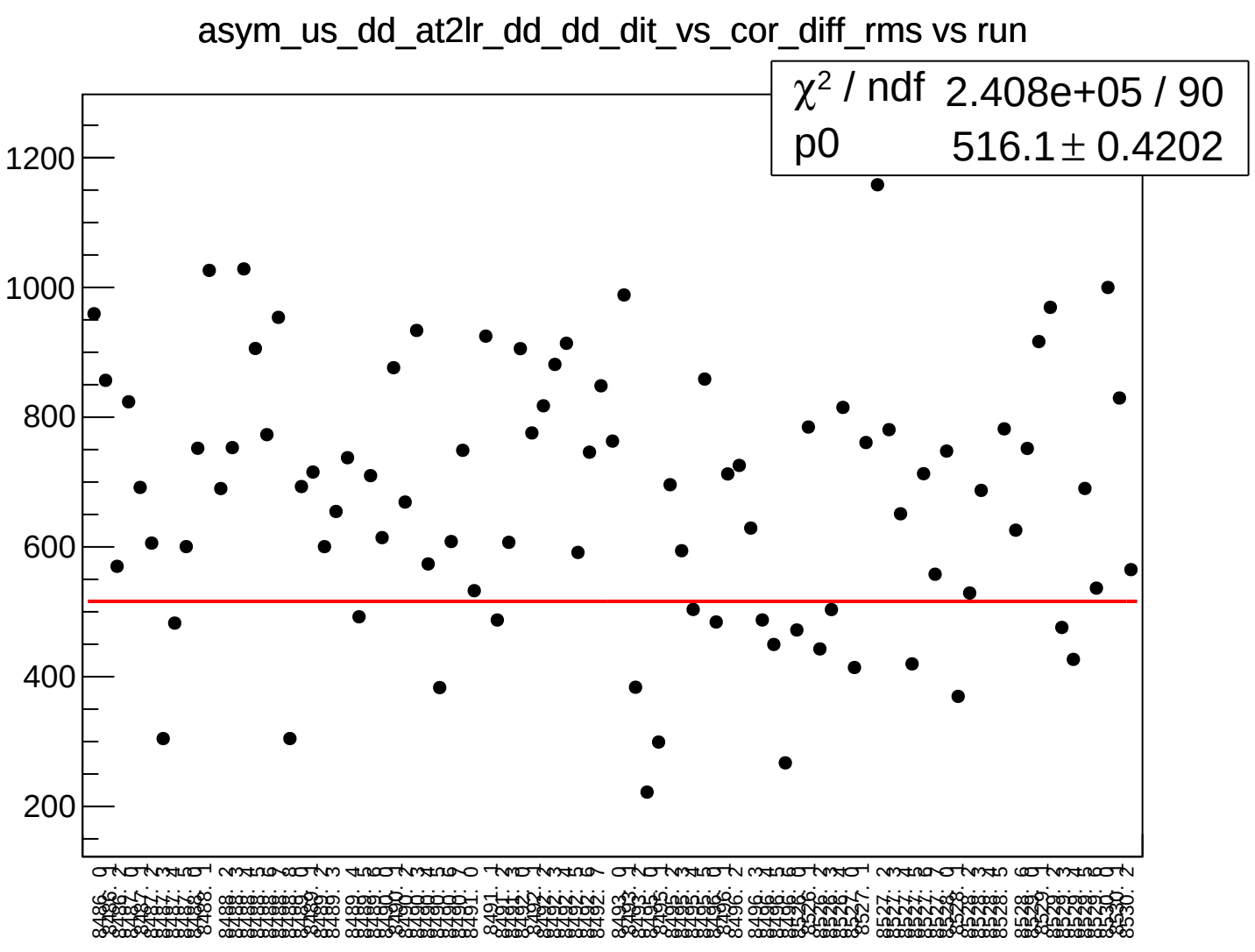

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 77.94 / 90
p0 1.506e−13 ± 2.433e−13
pull
Entries 91
Mean 45.51
Std Dev 33.89


pull1D
Entries 91
Mean 0.06177
Std Dev 0.9234


asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.297e+06 / 90
p0 1.157e−10 ± 1.72e−13
0
2
4
6
8
10
12
14
16
18
20


asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 75.6 / 90
p0 −0.8712 ± 0.5942
pull
Entries 91
Mean 24.35
Std Dev 44.68


pull1D
Entries 91
Mean −0.03808
Std Dev 0.9107


asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.408e+05 / 90
p0 516.1 ± 0.4202
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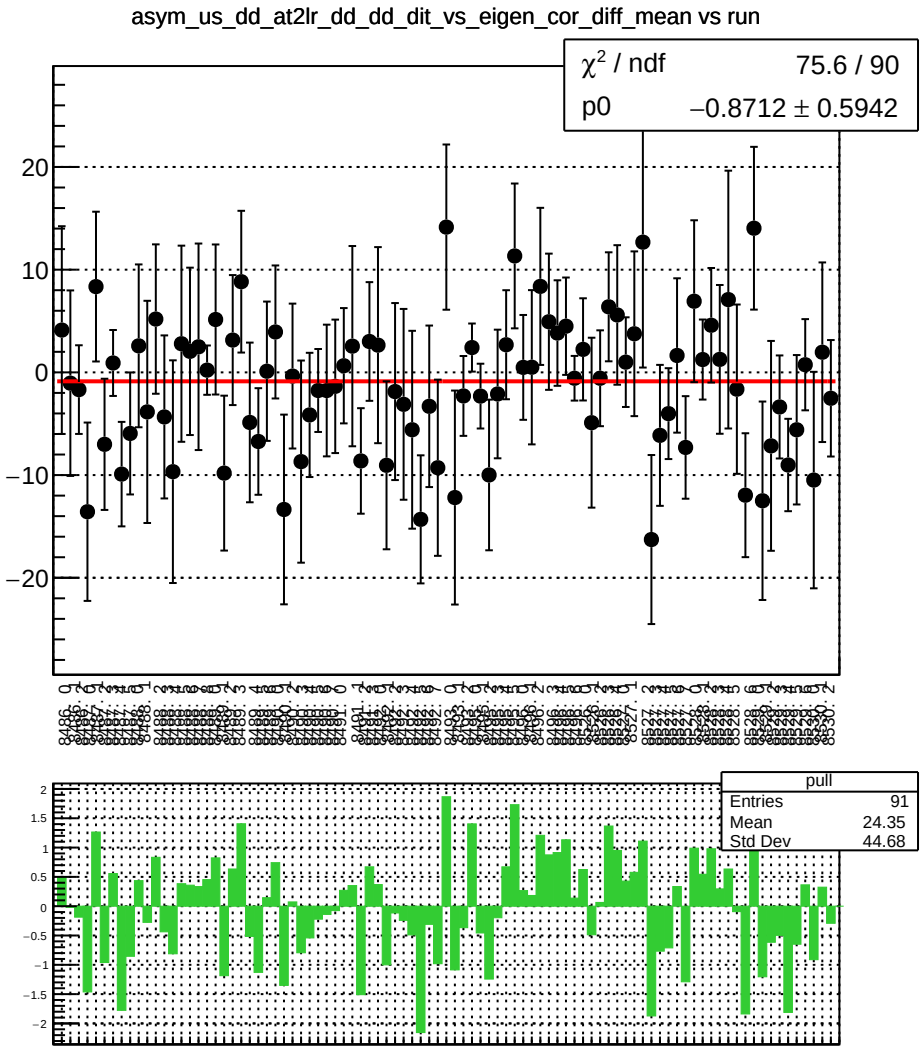
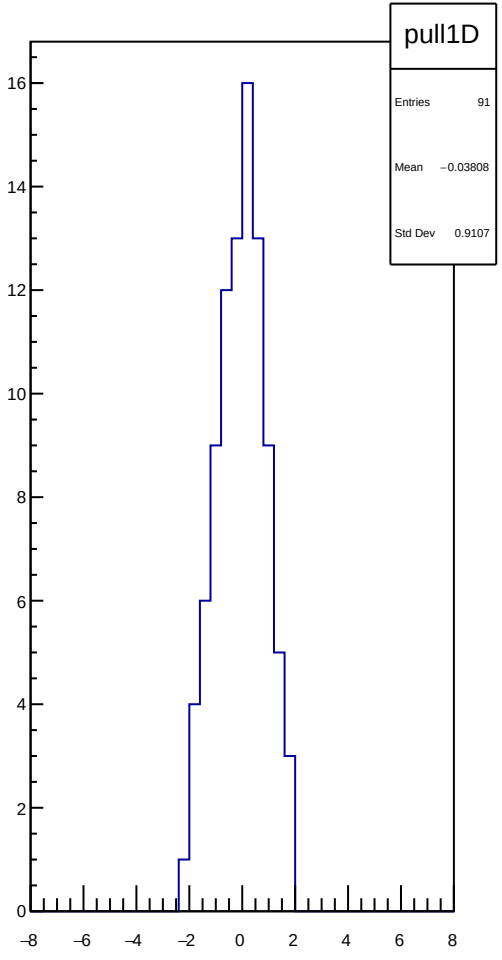
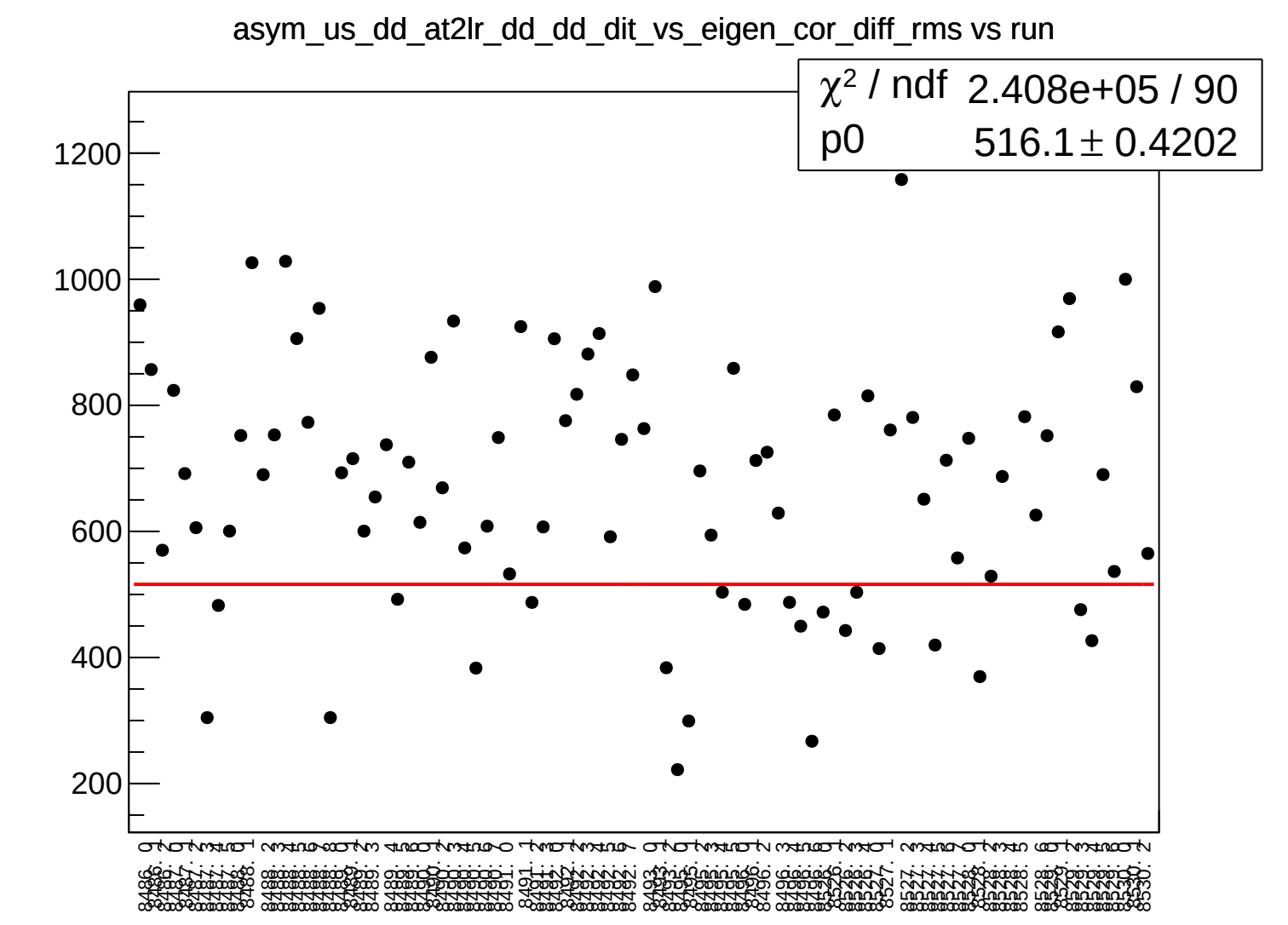
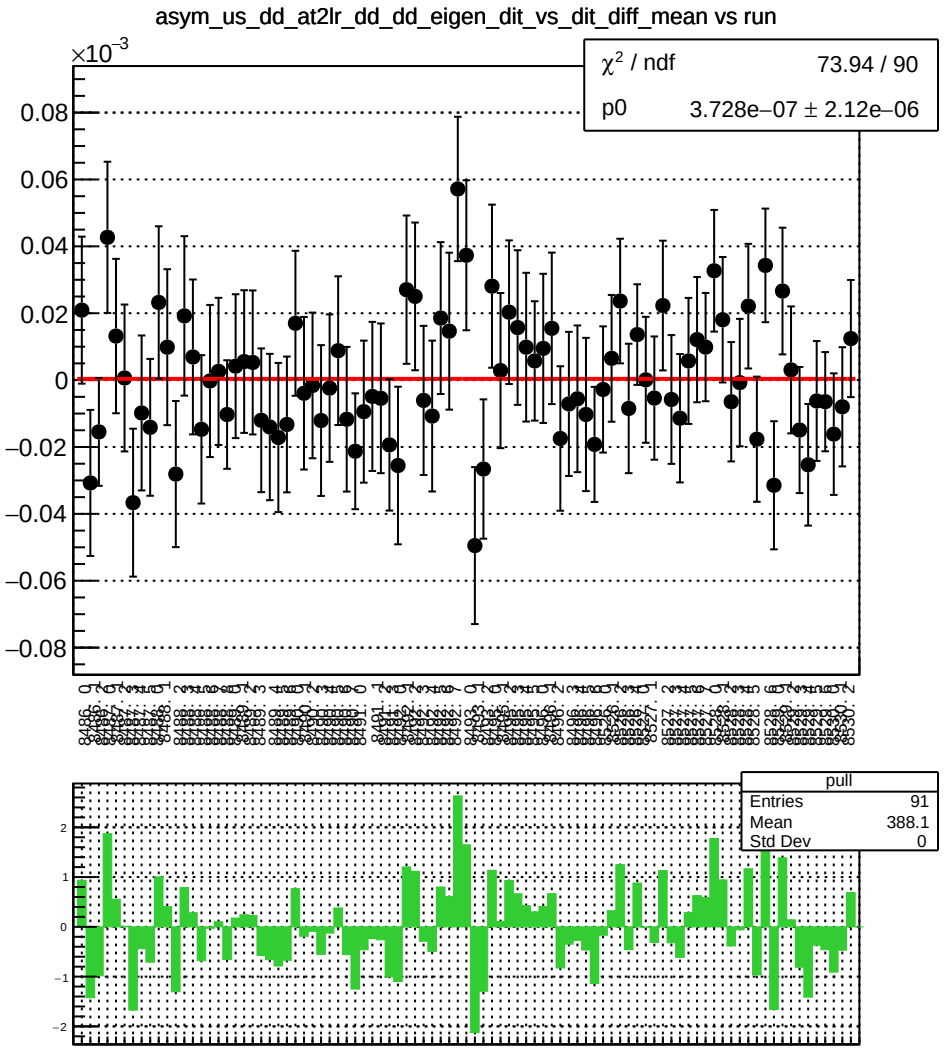
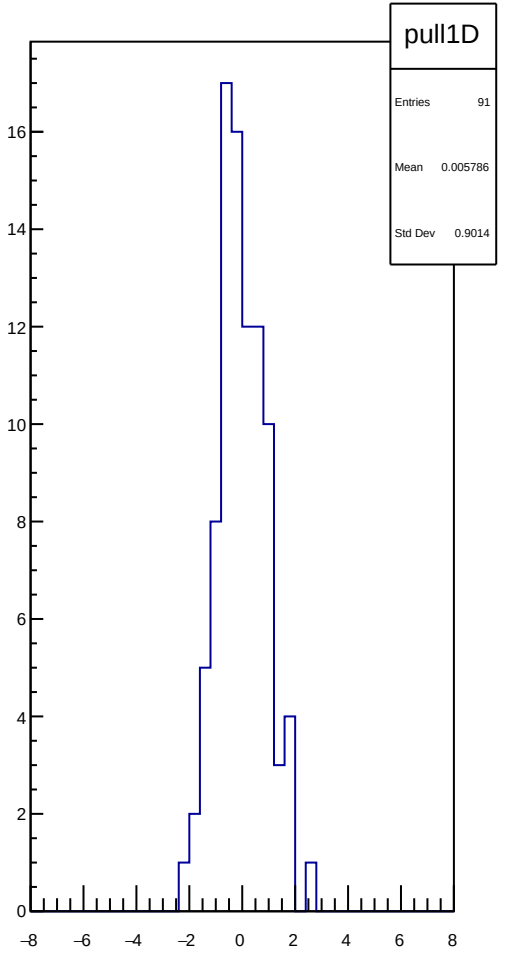
1000
800
600
400
200

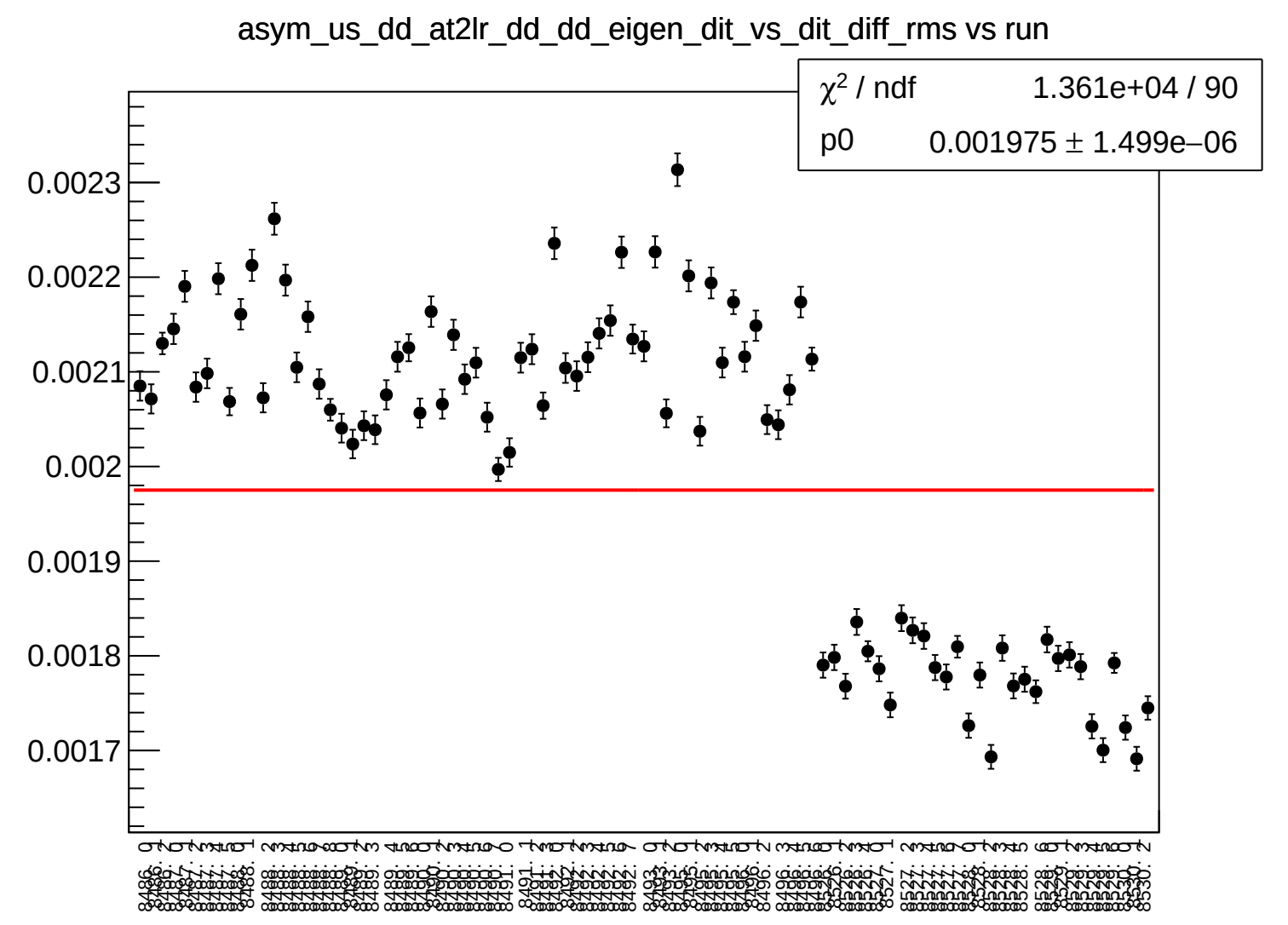

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.6 / 90
p0 −0.8712 ± 0.5942
pull
Entries 91
Mean 24.35
Std Dev 44.68

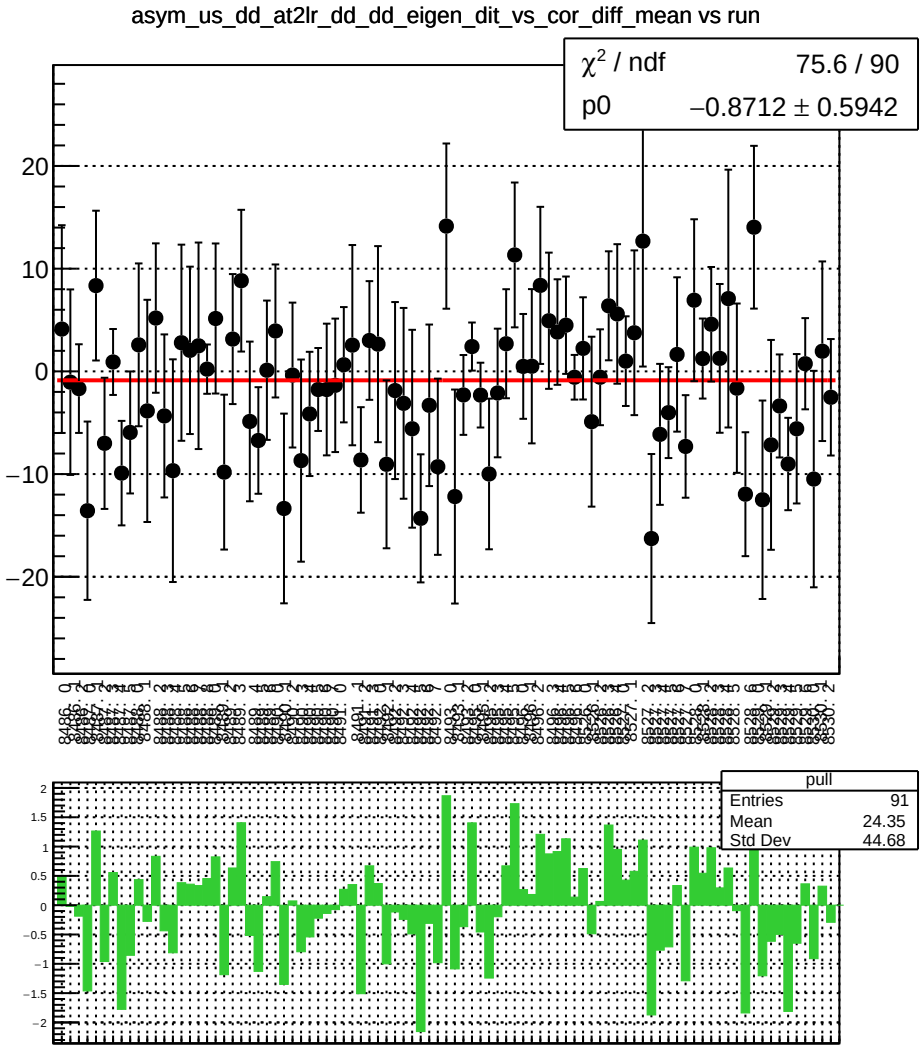

pull1D
Entries 91
Mean −0.03808
Std Dev 0.9107

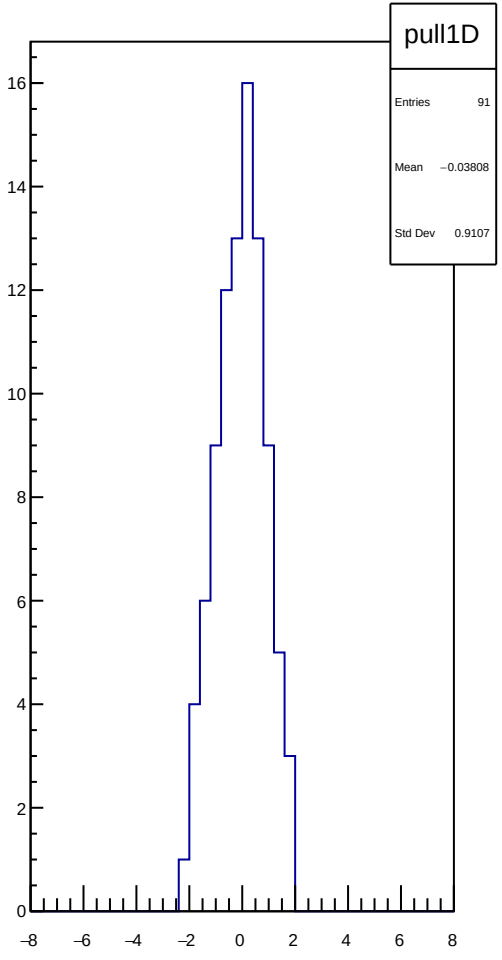

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.408e+05 / 90
p0 516.1 ± 0.4202
1200
1000
800
600
400
200

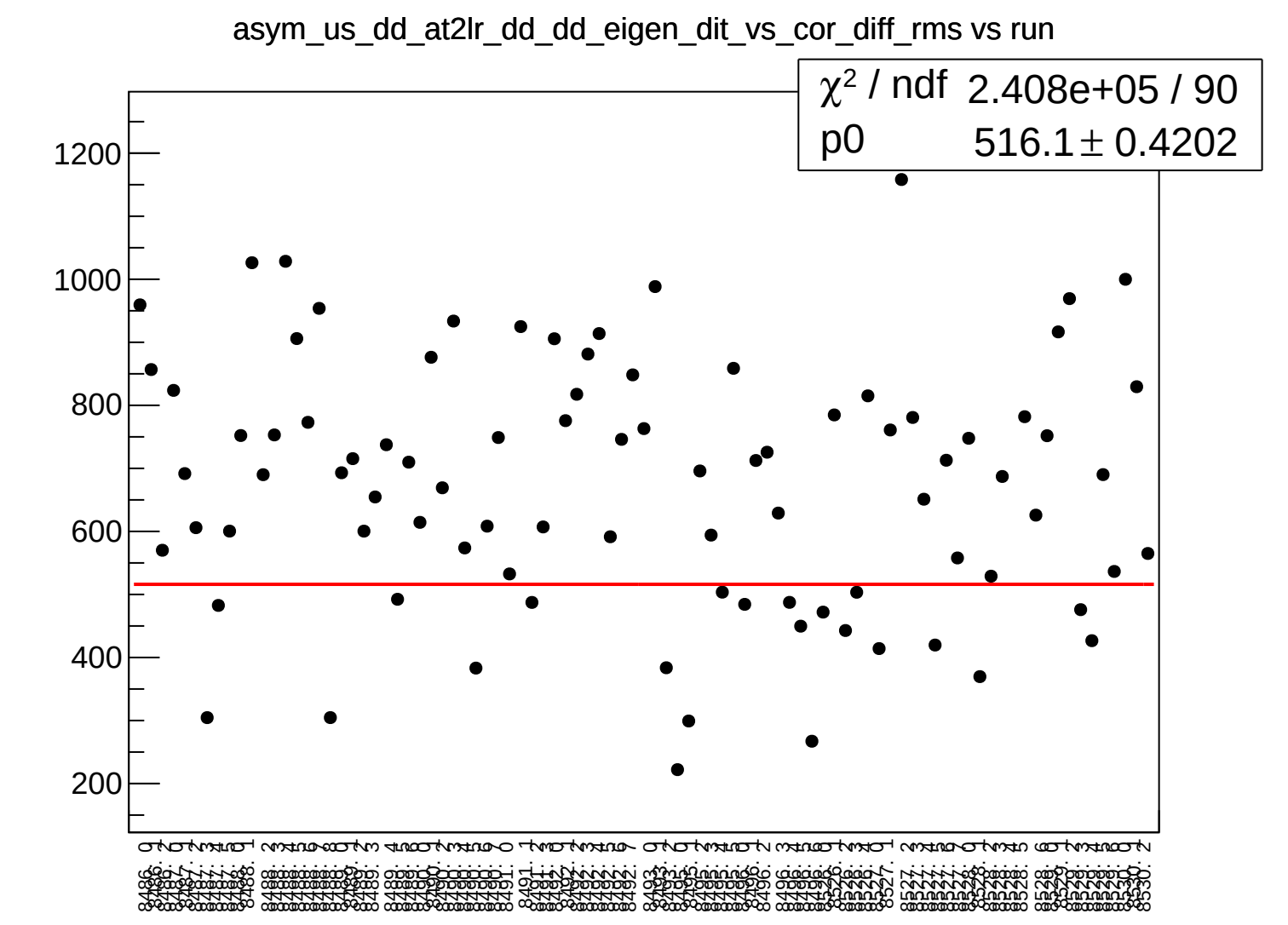

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.94 / 90
p0 3.728e−07 ± 2.12e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 91
Mean 388.1
Std Dev 0
2
1
0
−1
−2

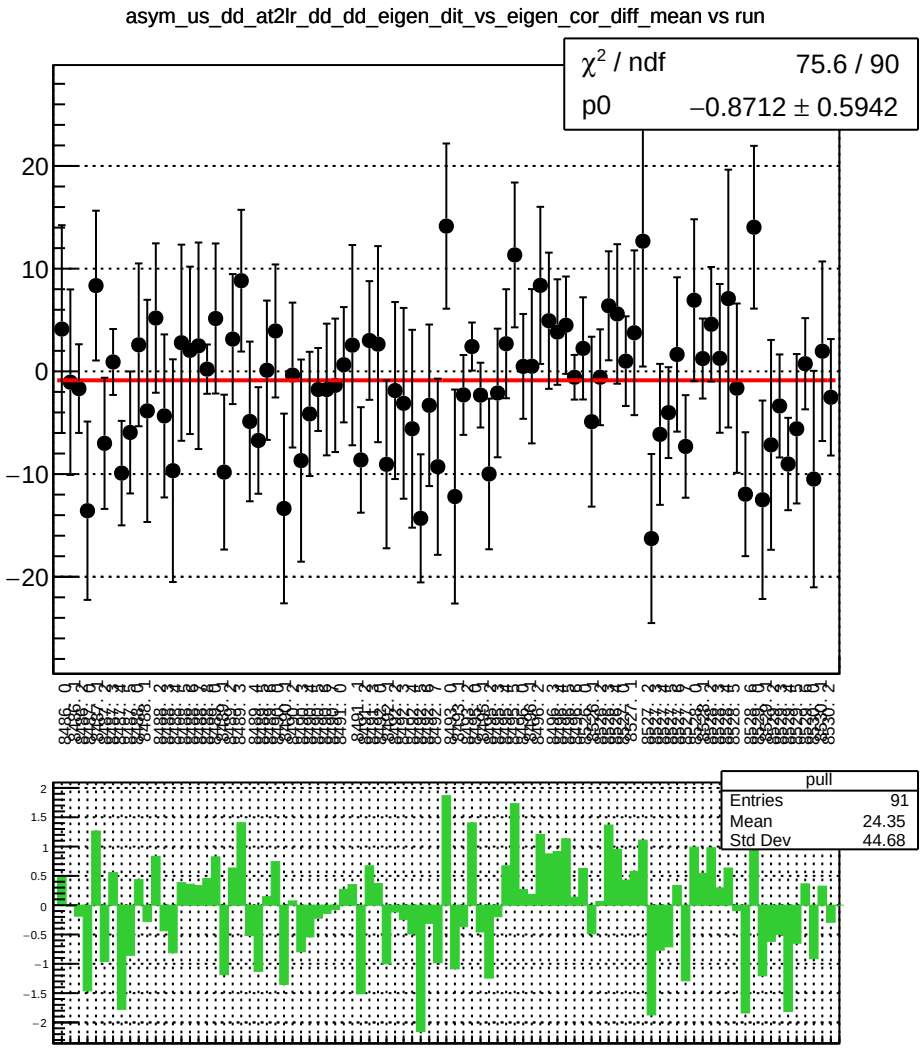

pull1D
Entries 91
Mean 0.005786
Std Dev 0.9014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

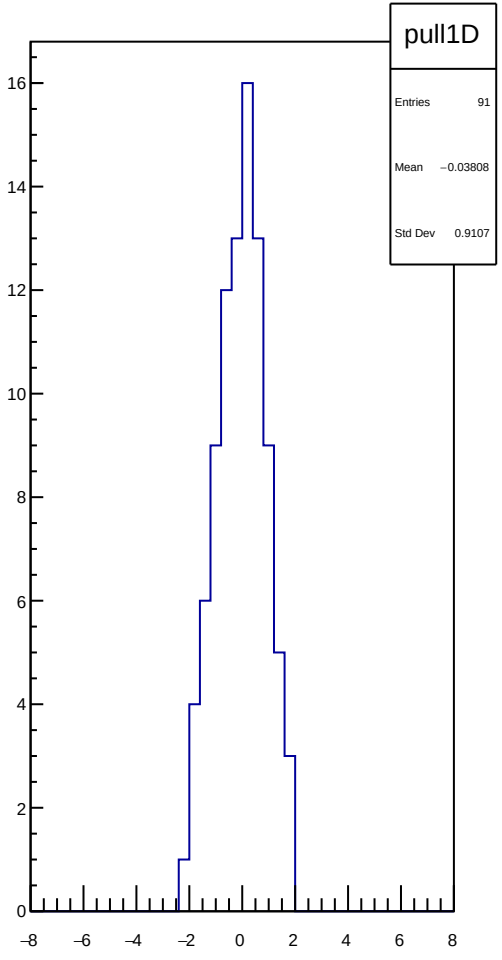

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.361e+04 / 90
p0 0.001975 ± 1.499e−06
0.0023
0.0022
0.0021
0.002
0.0019
0.0018
0.0017

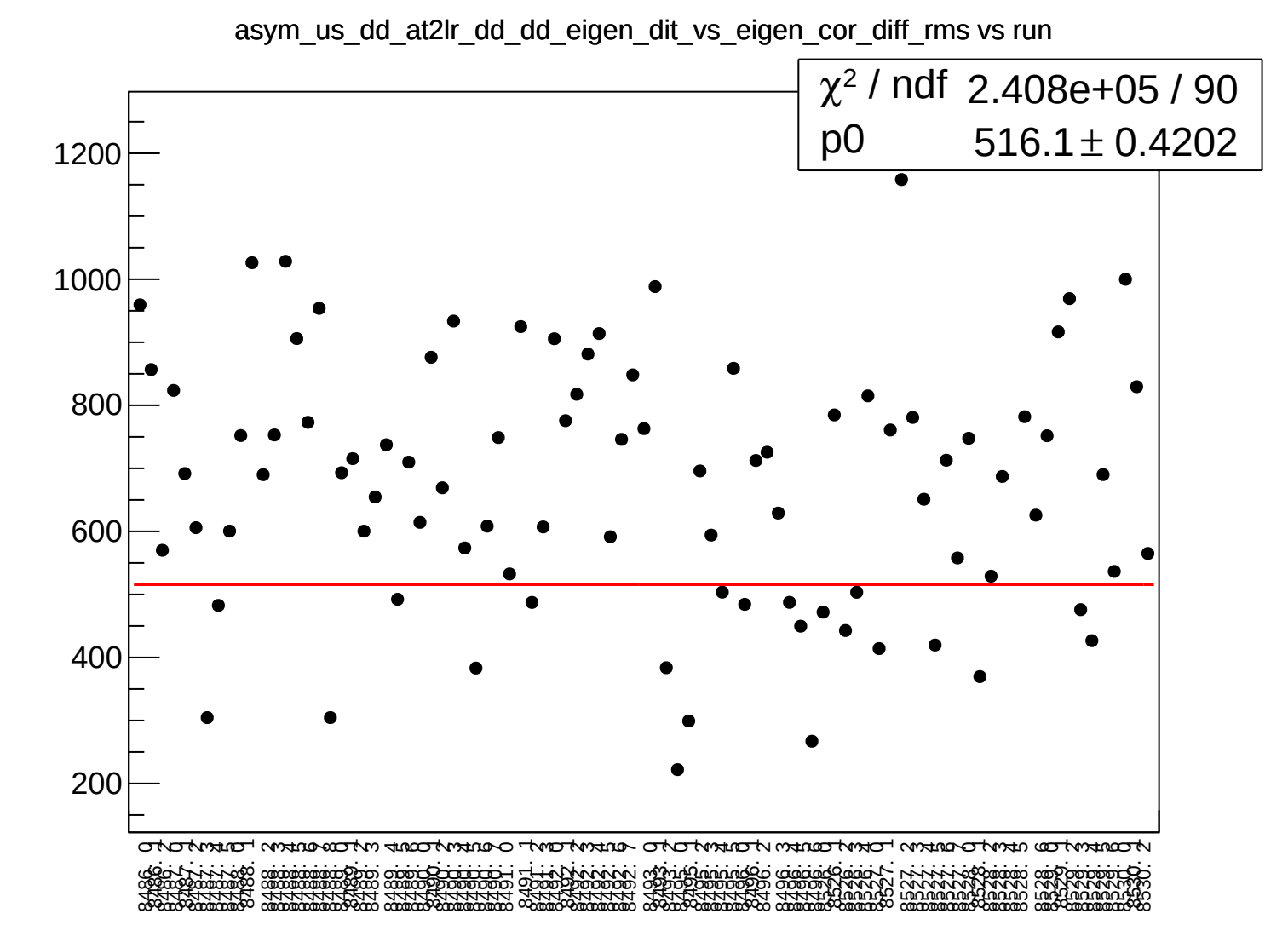

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.6 / 90
p0 −0.8712 ± 0.5942
pull
Entries 91
Mean 24.35
Std Dev 44.68

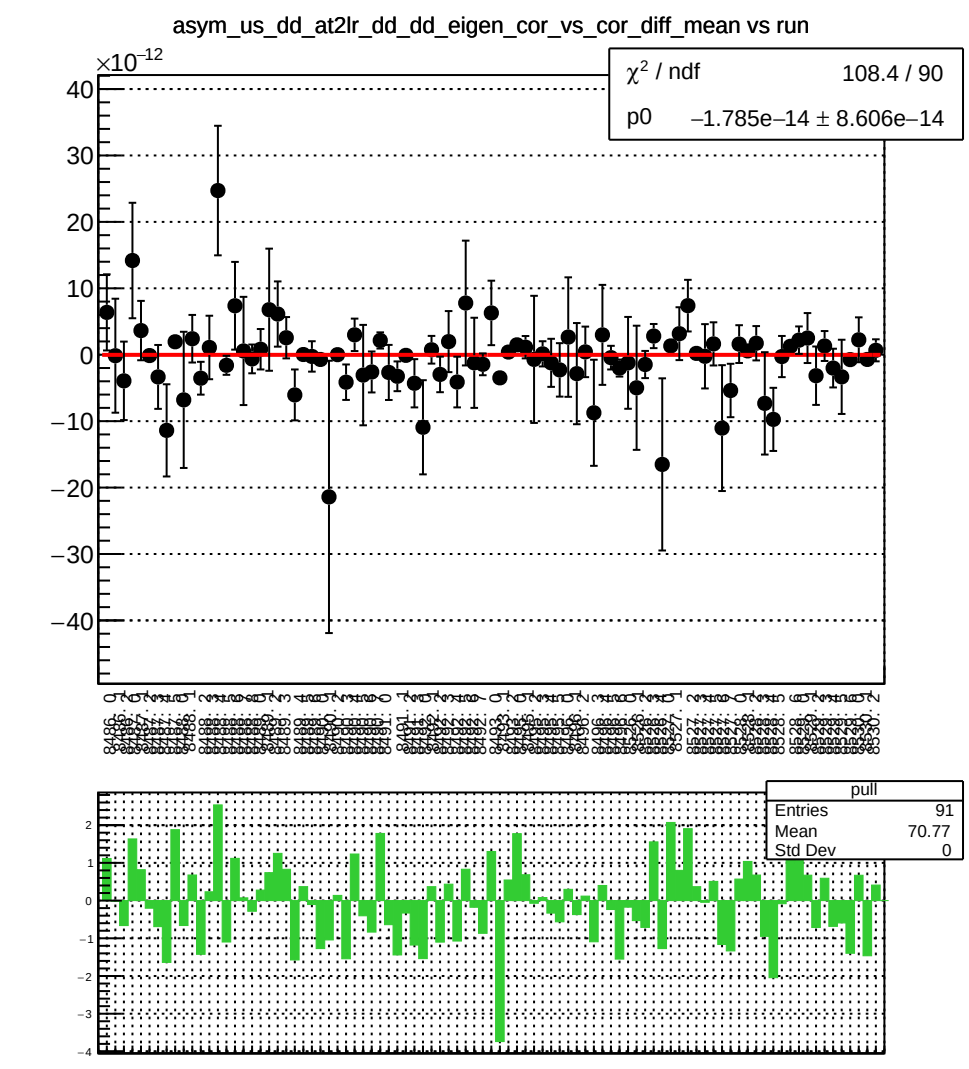

pull1D
Entries 91
Mean −0.03808
Std Dev 0.9107

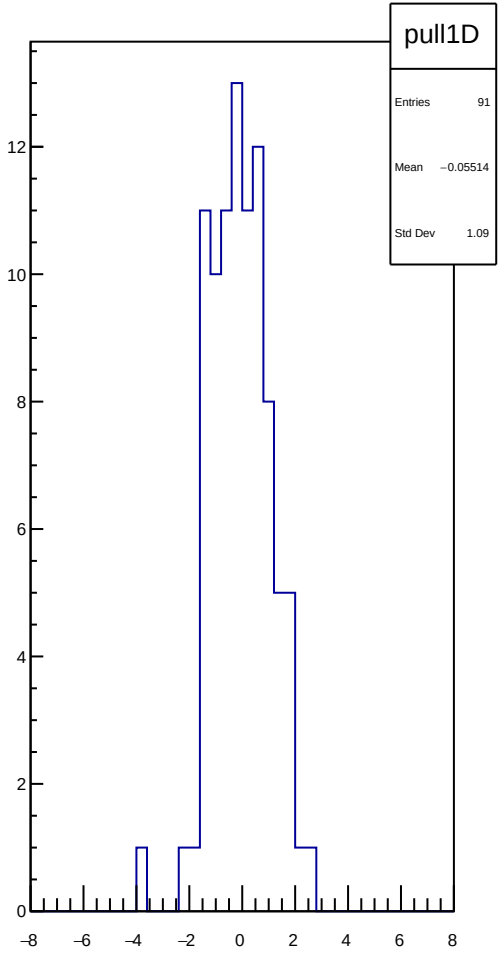

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.408e+05 / 90
p0 516.1 ± 0.4202
1200
1000
800
600
400
200

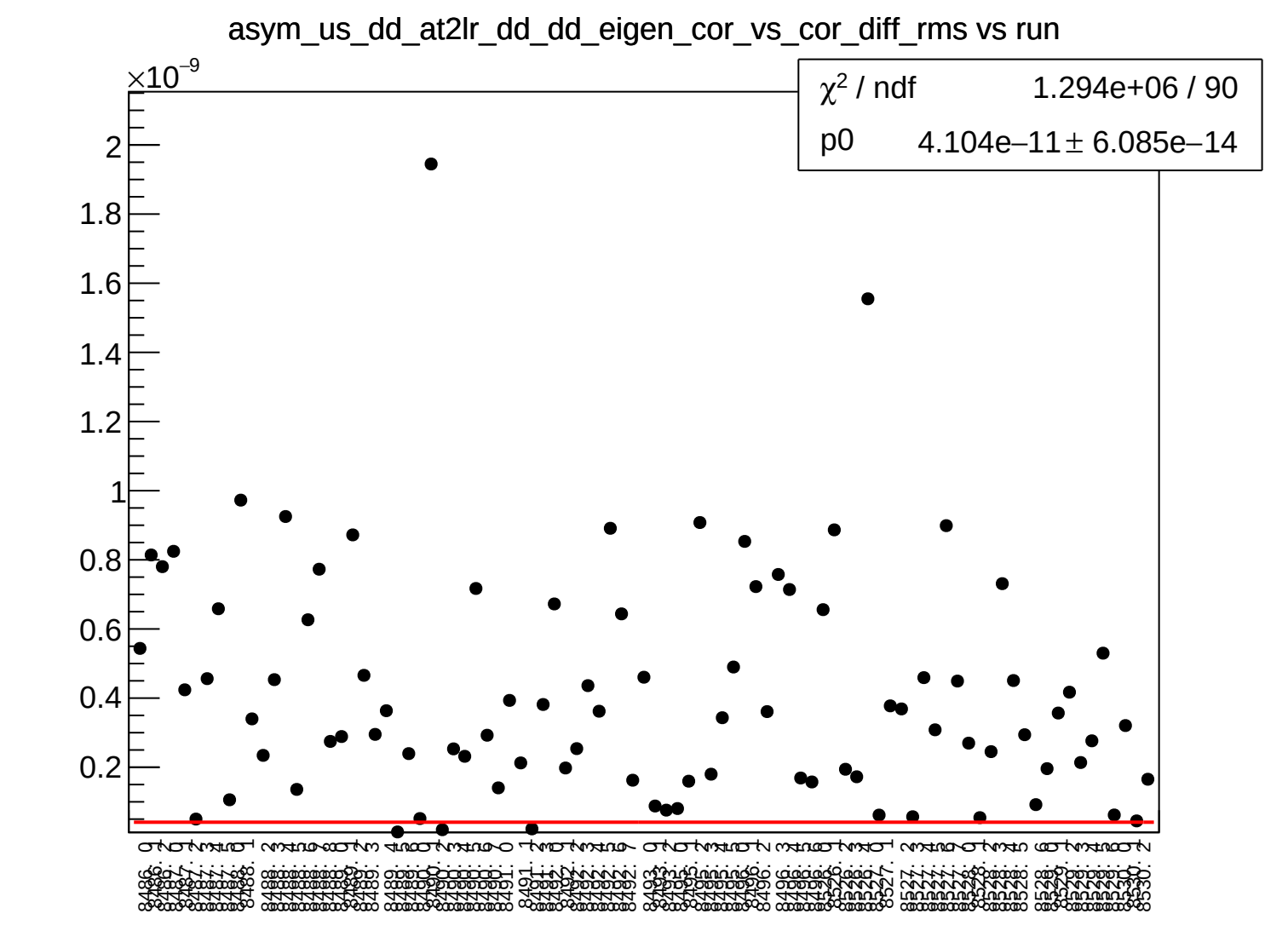

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.6 / 90
p0 −0.8712 ± 0.5942
pull
Entries 91
Mean 24.35
Std Dev 44.68

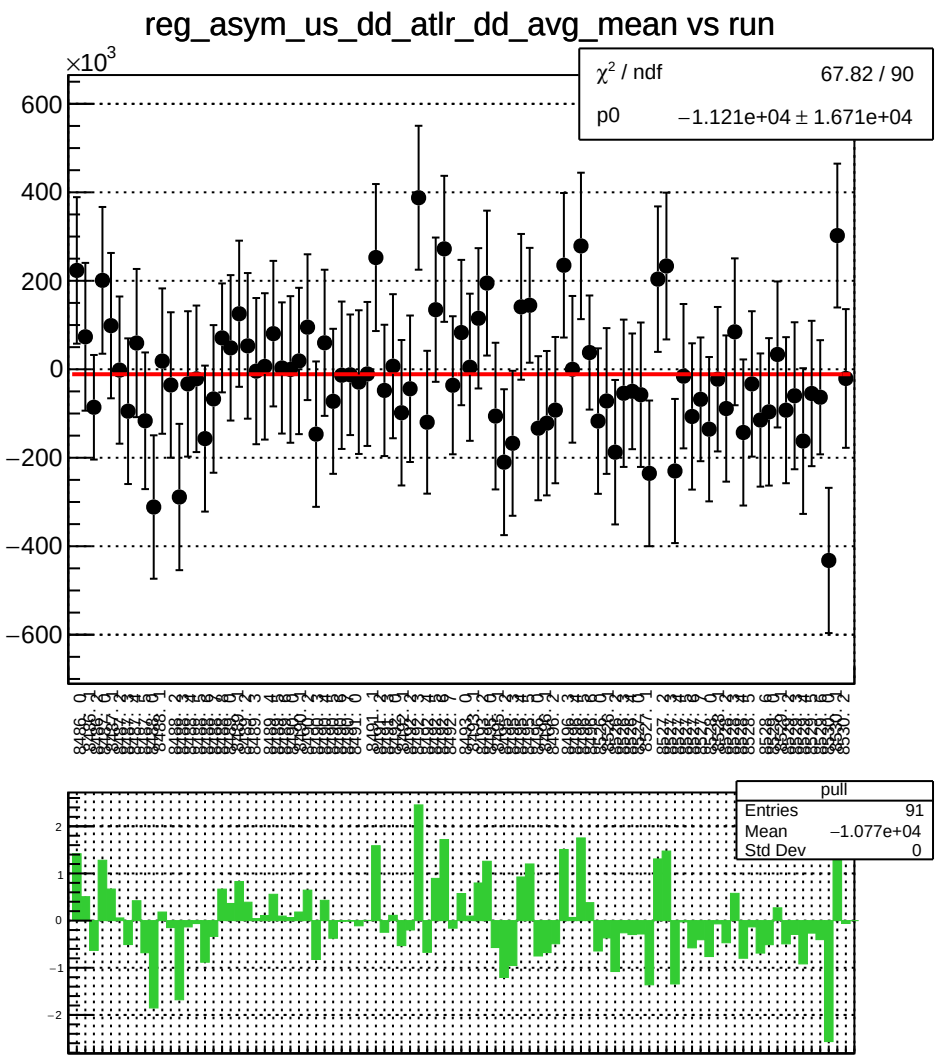

pull1D
Entries 91
Mean −0.03808
Std Dev 0.9107

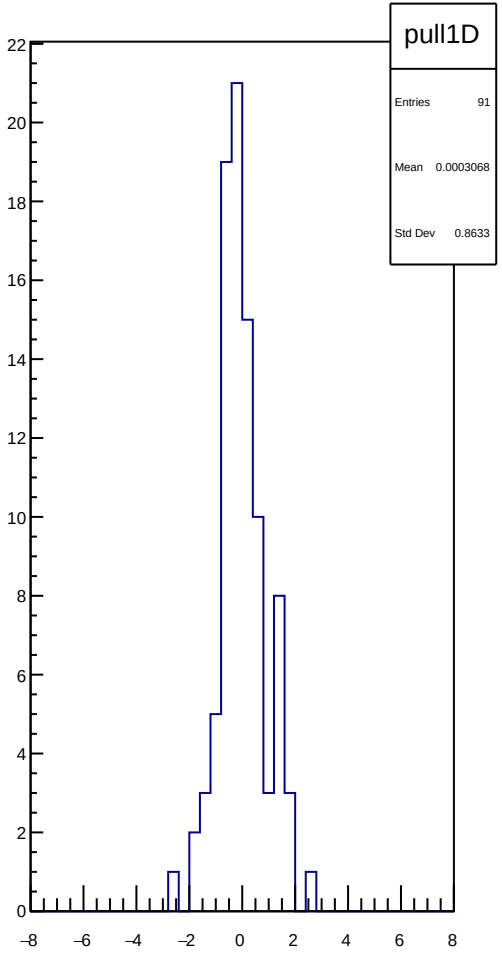

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.408e+05 / 90
p0 516.1 ± 0.4202
1200
1000
800
600
400
200

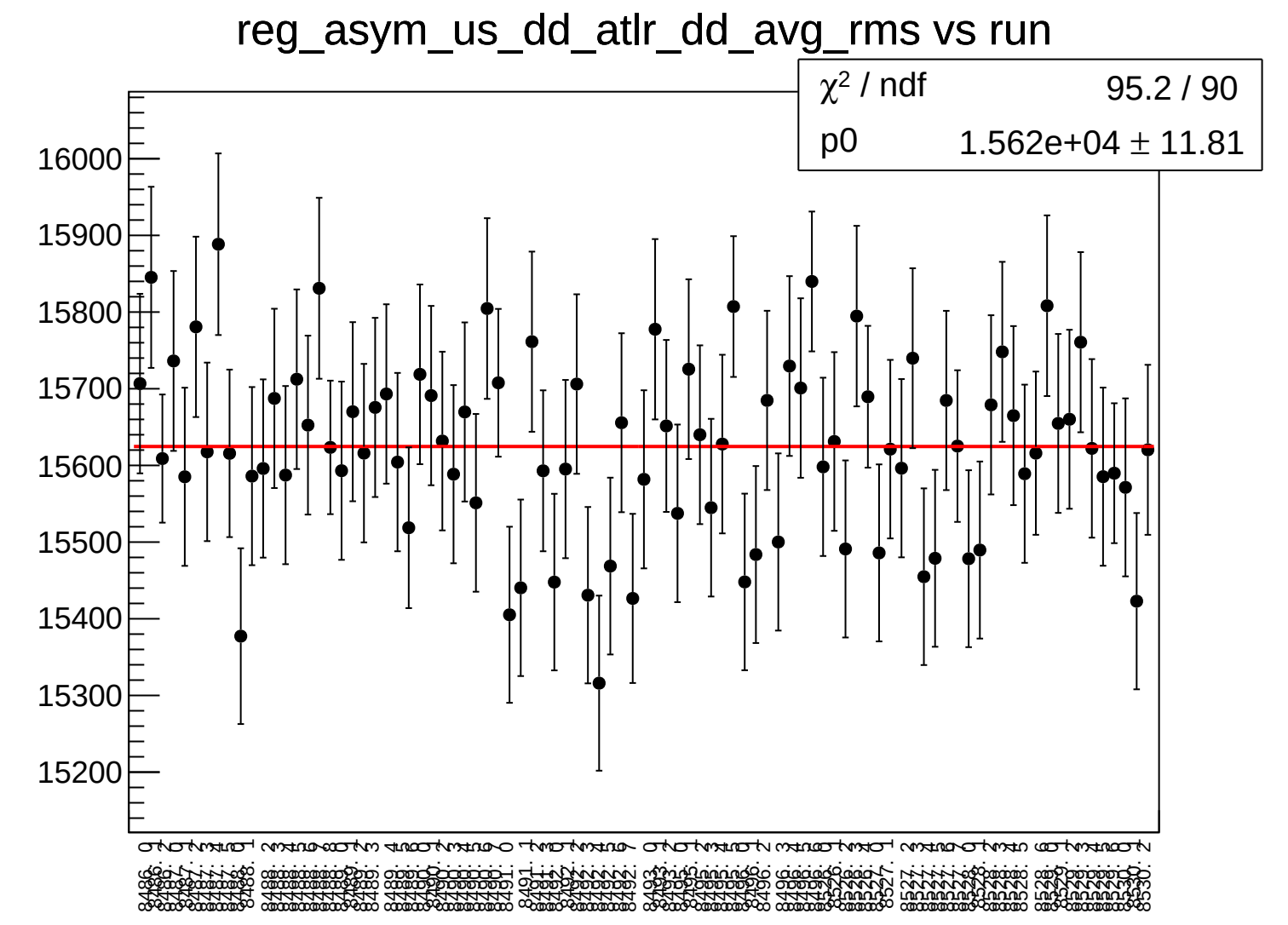

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 108.4 / 90
p0 −1.785e−14 ± 8.606e−14
pull
Entries 91
Mean 70.77
Std Dev 0

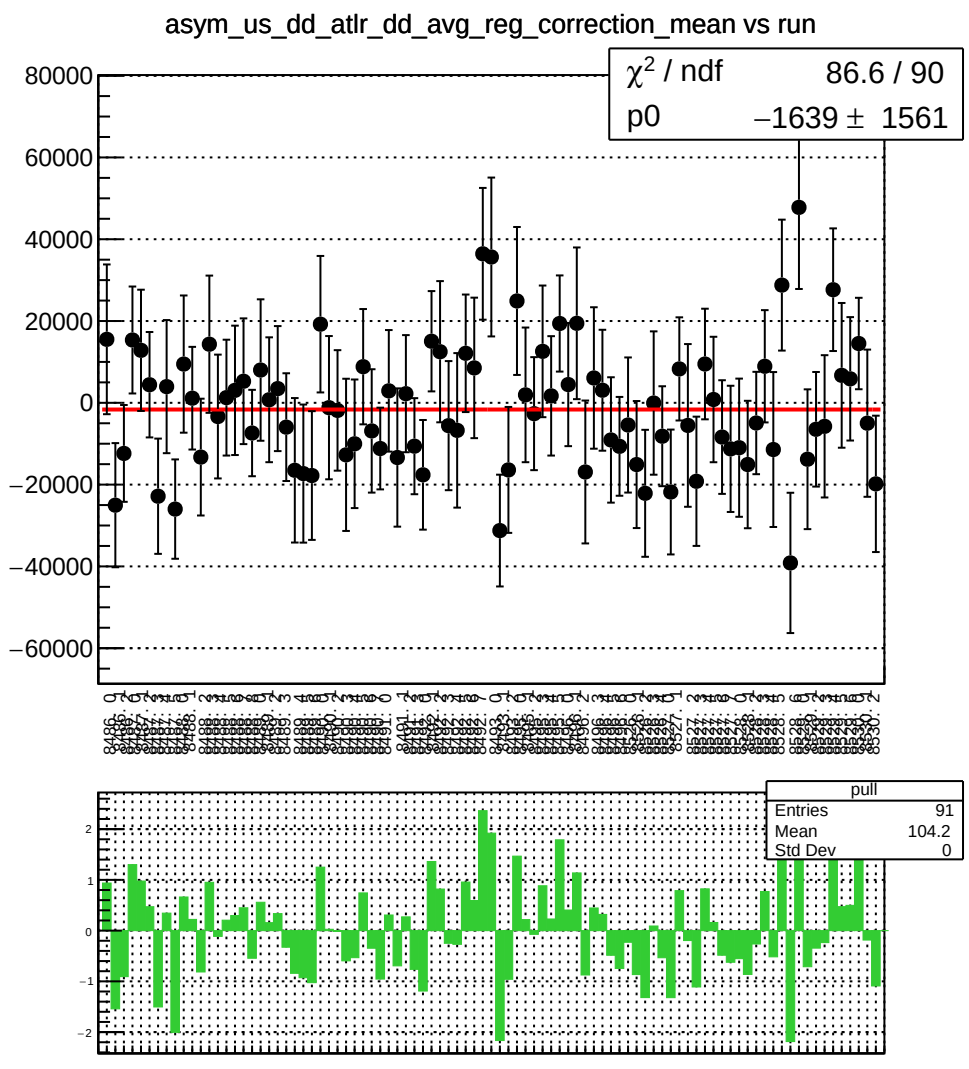

pull1D
Entries 91
Mean −0.05514
Std Dev 1.09

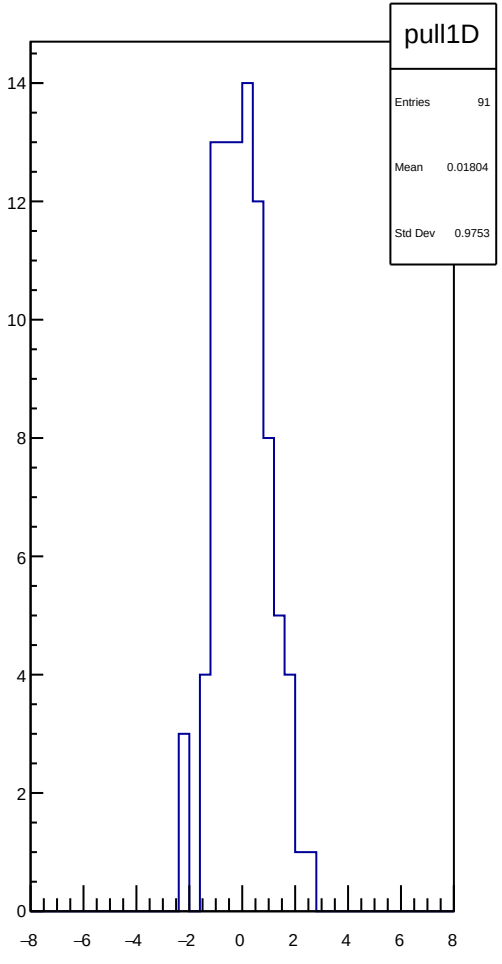

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.294e+06 / 90
p0 4.104e−11 ± 6.085e−14
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

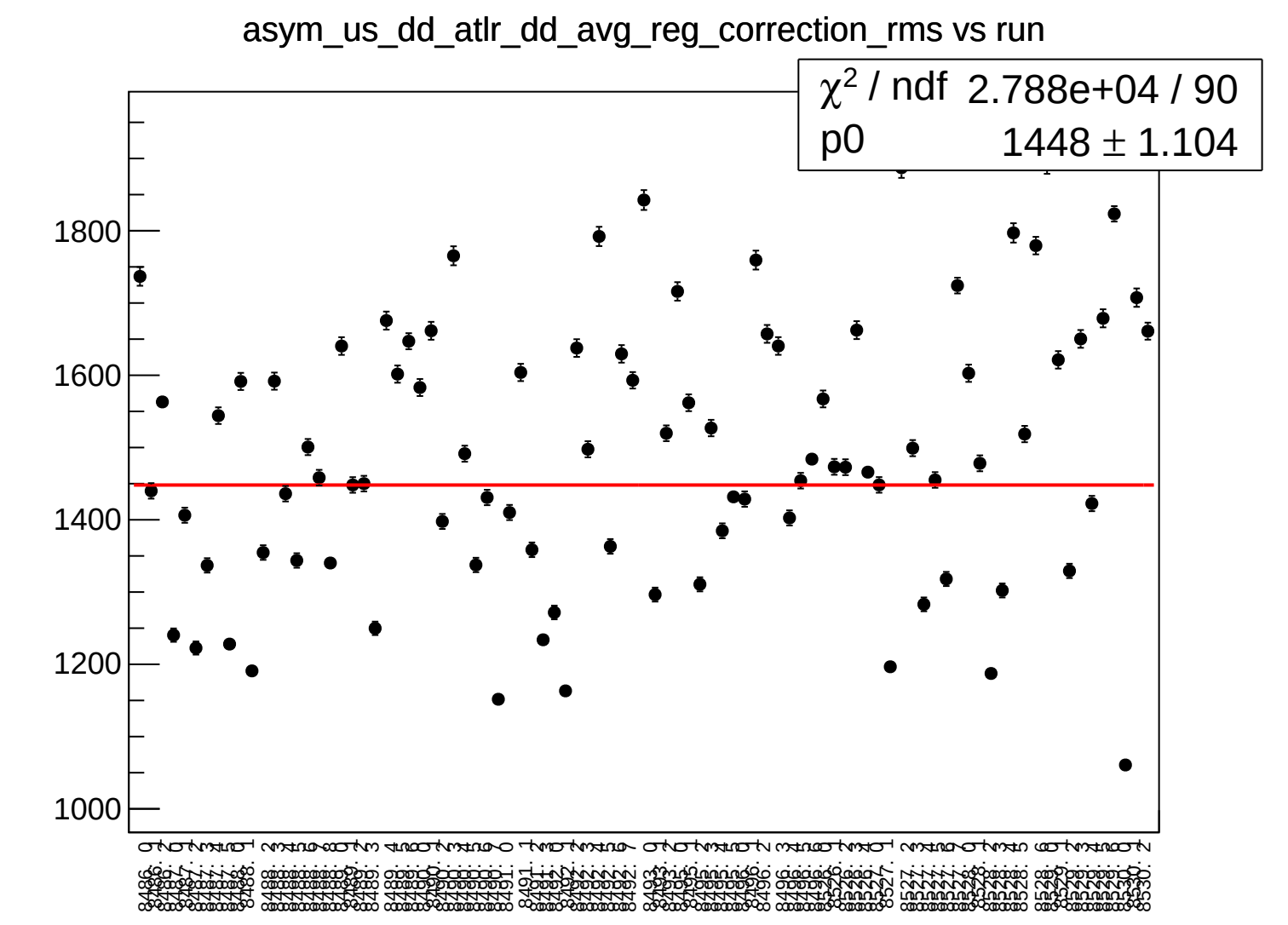

reg_asym_us_dd_atlr_dd_avg_mean vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 67.82 / 90
p0 −1.121e+04 ± 1.671e+04
pull
Entries 91
Mean −1.077e+04
Std Dev 0
2
1
0
−1
−2

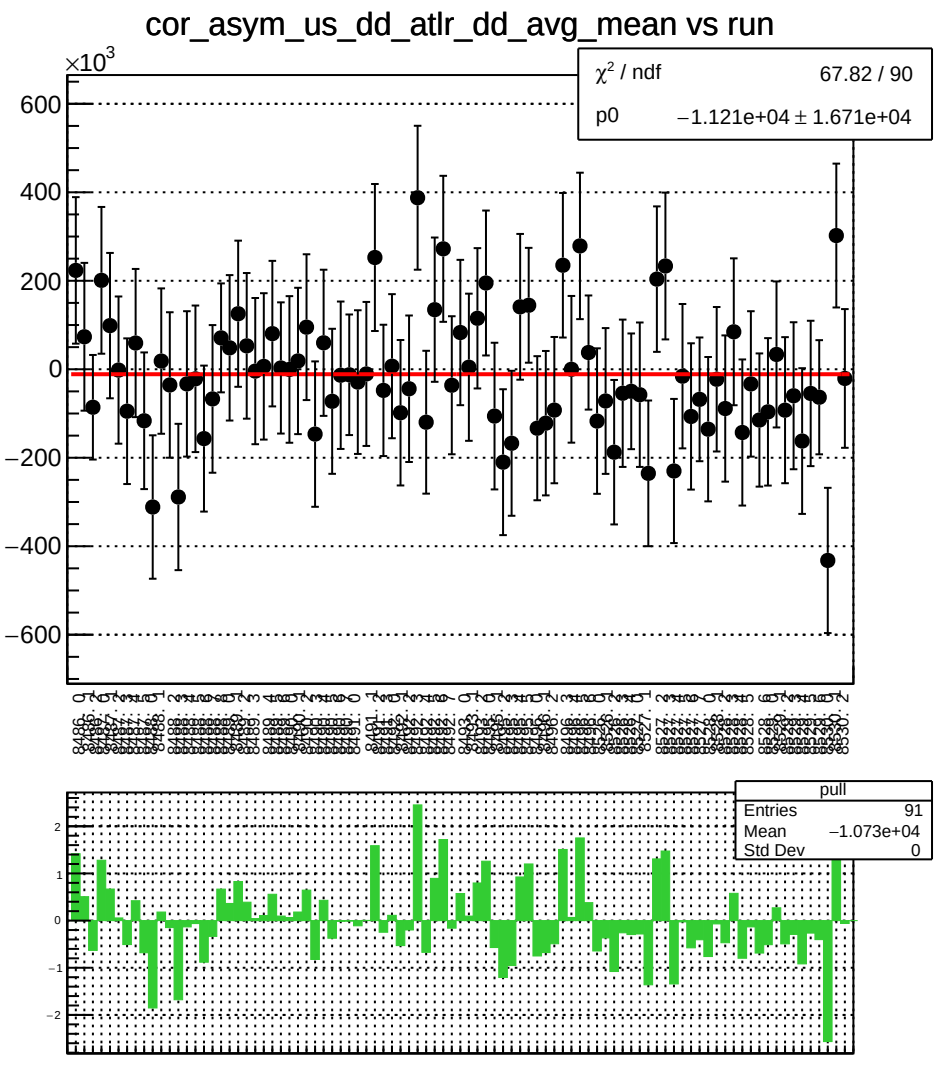

pull1D
Entries 91
Mean 0.0003068
Std Dev 0.8633
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

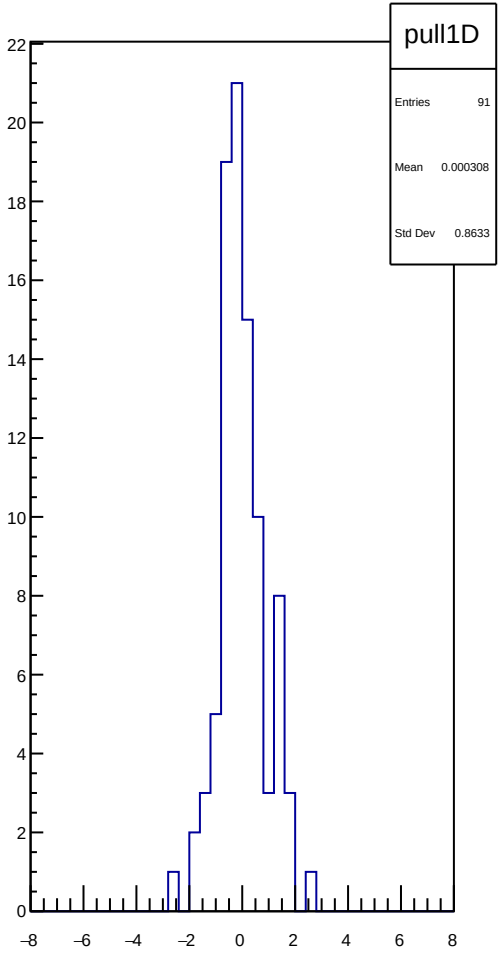

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 95.2 / 90
p0 1.562e+04 ± 11.81
16000
15900
15800
15700
15600
15500
15400
15300
15200

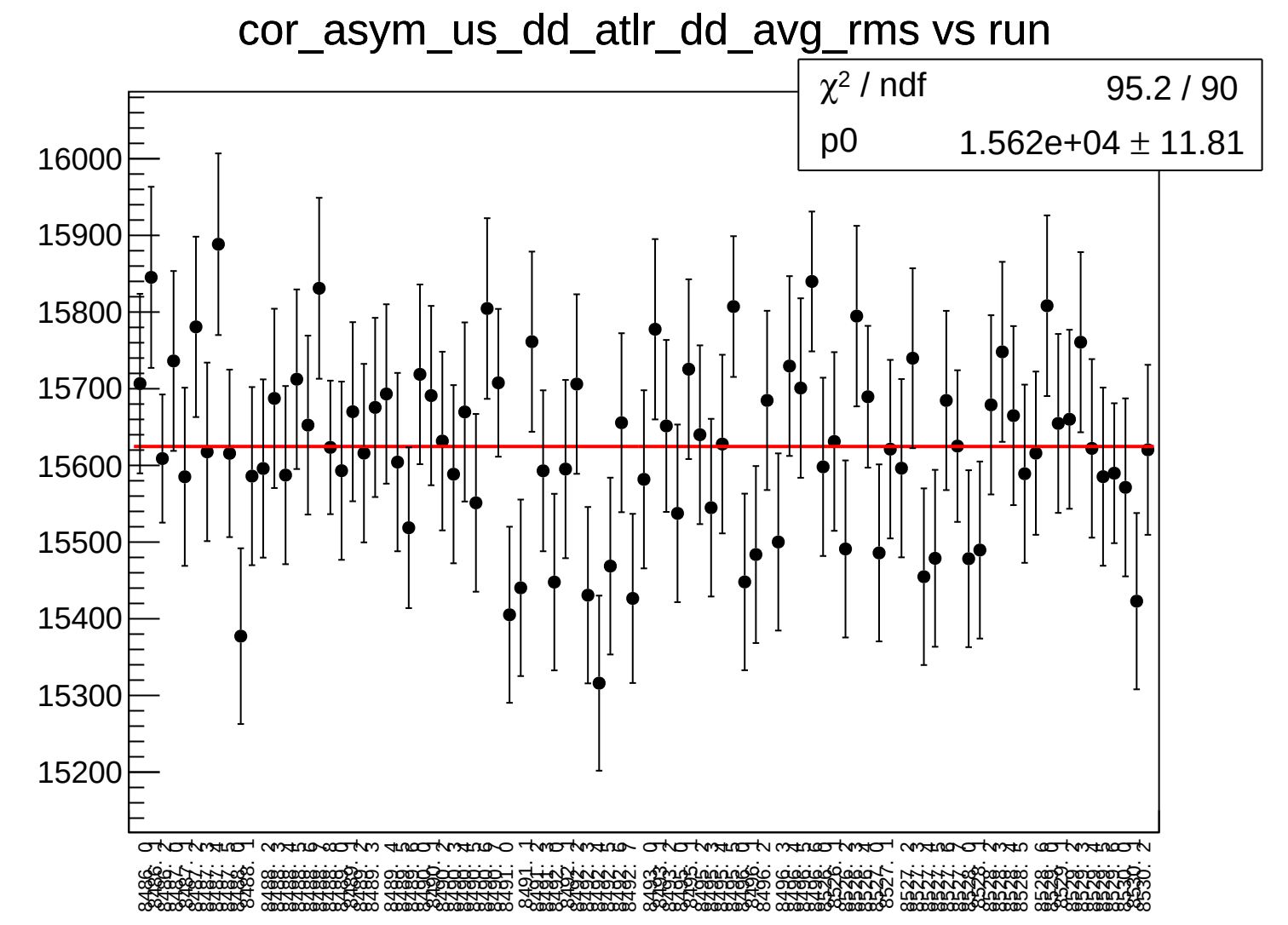

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
χ² / ndf 86.6 / 90
p0 −1639 ± 1561
pull
Entries 91
Mean 104.2
Std Dev 0

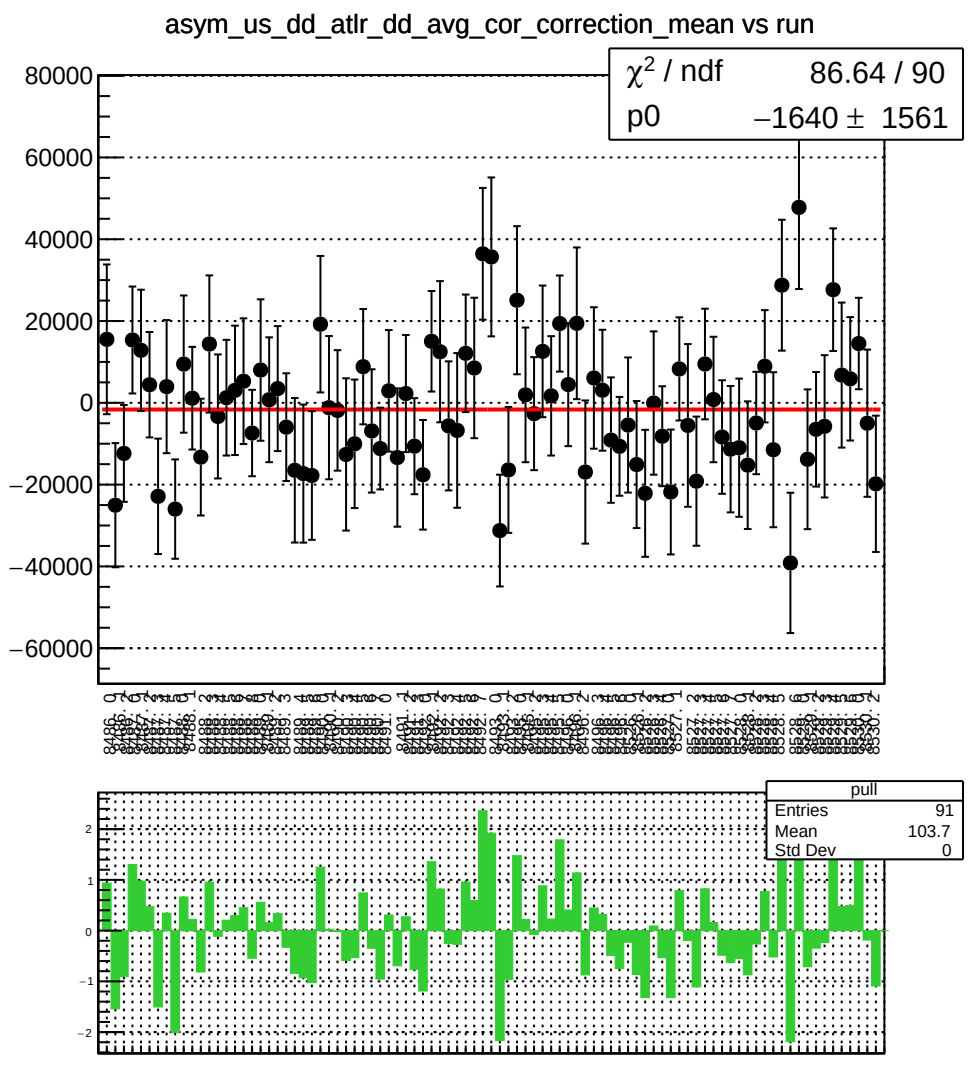

pull1D
Entries 91
Mean 0.01804
Std Dev 0.9753

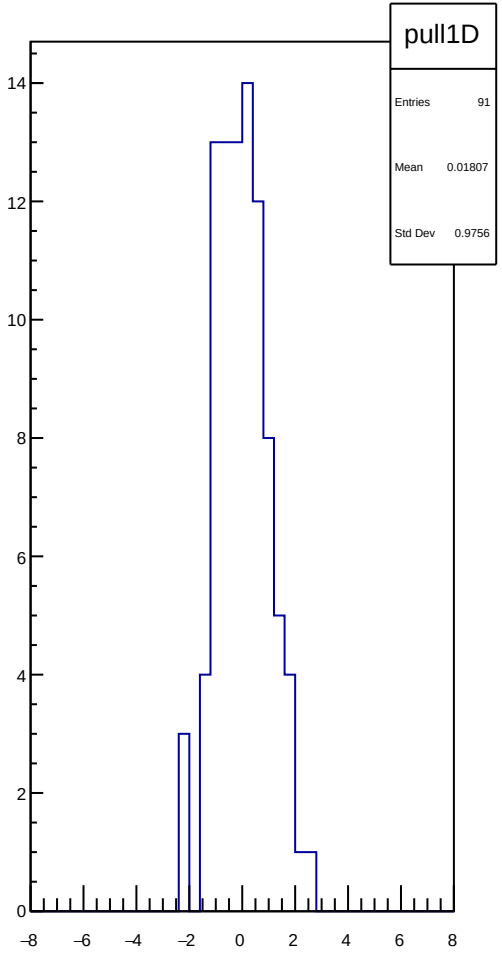

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 2.788e+04 / 90
p0 1448 ± 1.104
1800
1600
1400
1200
1000

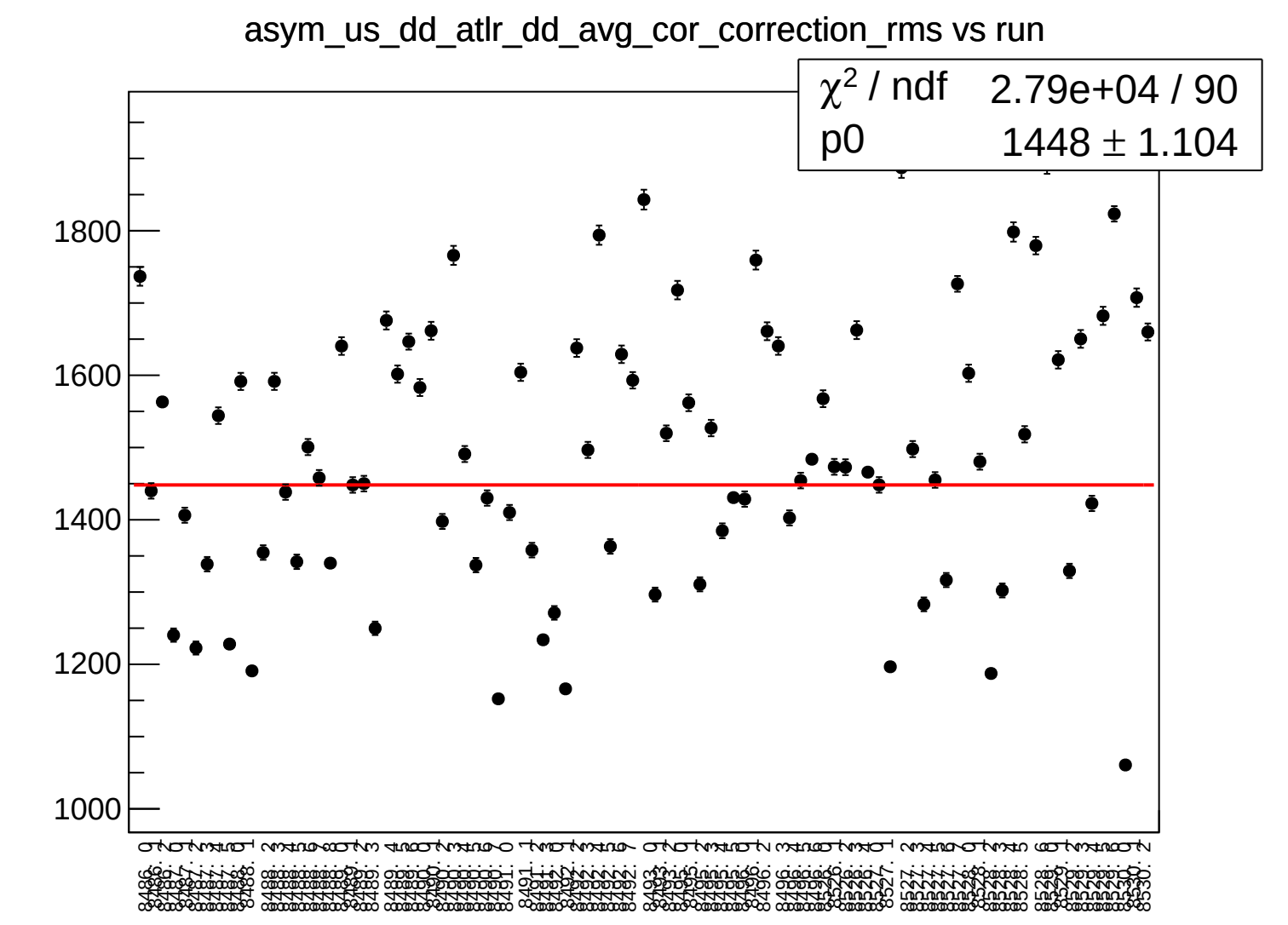

cor_asym_us_dd_atlr_dd_avg_mean vs run
×10^3
χ² / ndf 67.82 / 90
p0 −1.121e+04 ± 1.671e+04
pull
Entries 91
Mean −1.073e+04
Std Dev 0

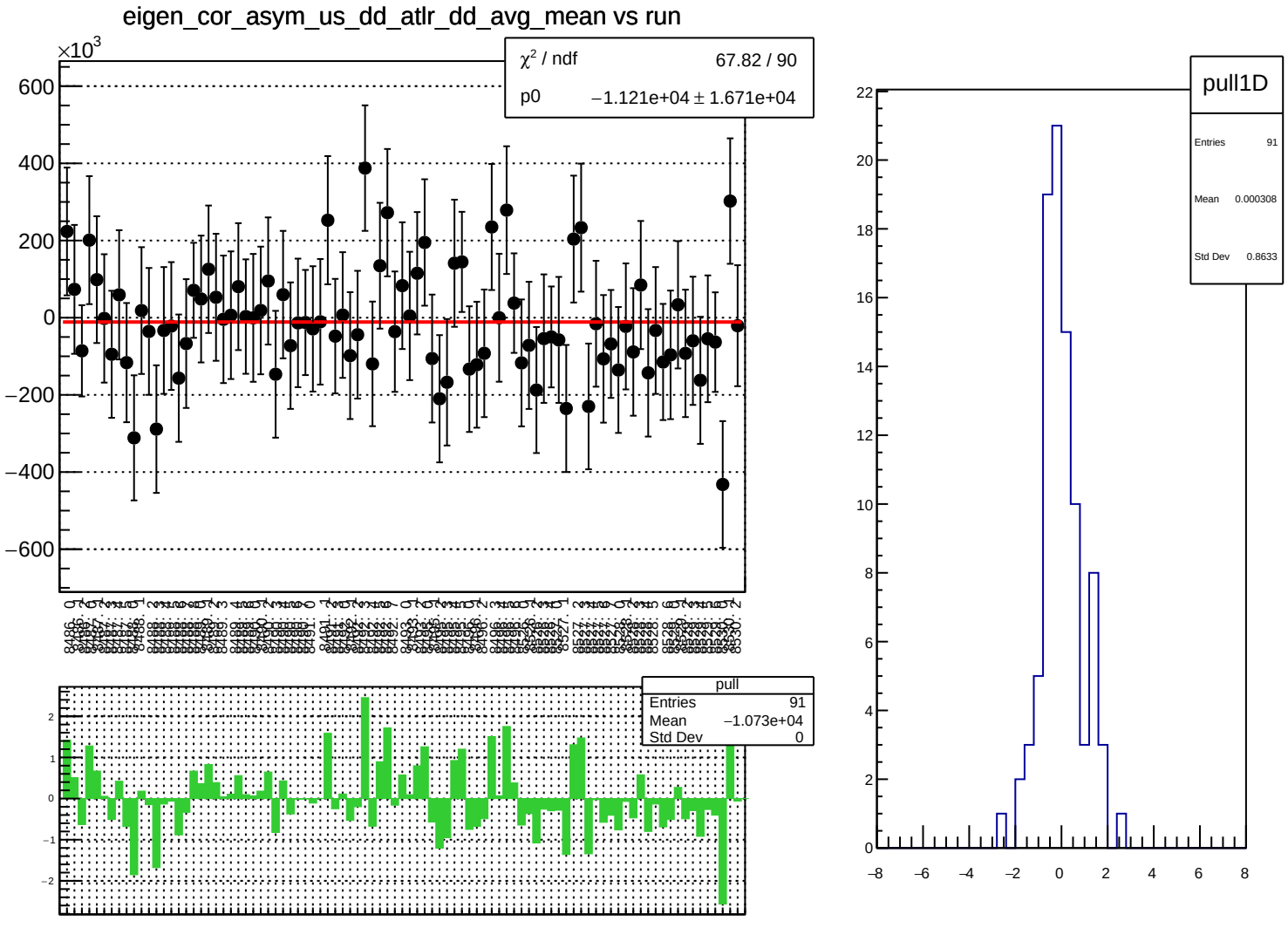

pull1D
Entries 91
Mean 0.000308
Std Dev 0.8633

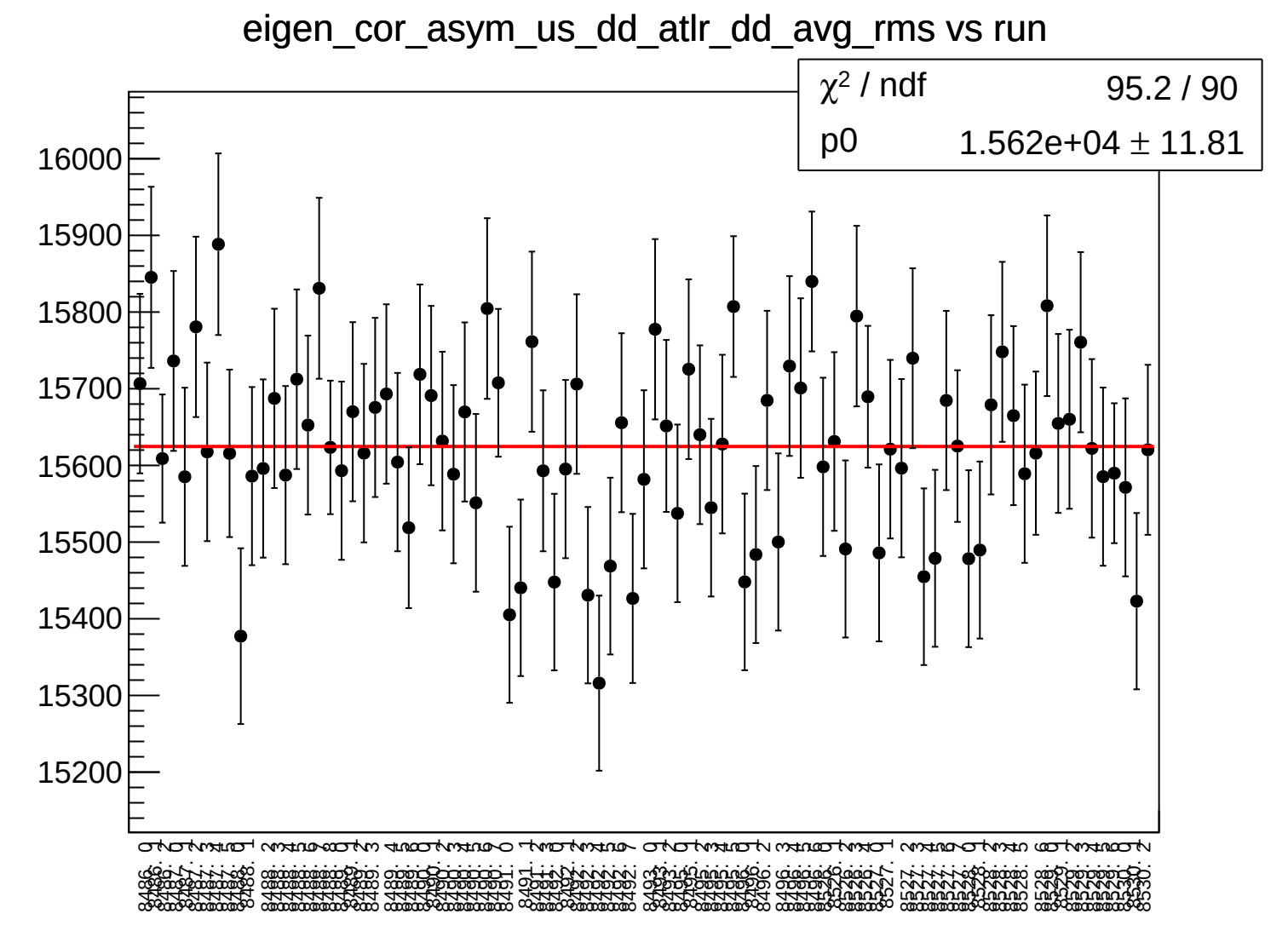

cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 95.2 / 90
p0 1.562e+04 ± 11.81
16000
15900
15800
15700
15600
15500
15400
15300
15200

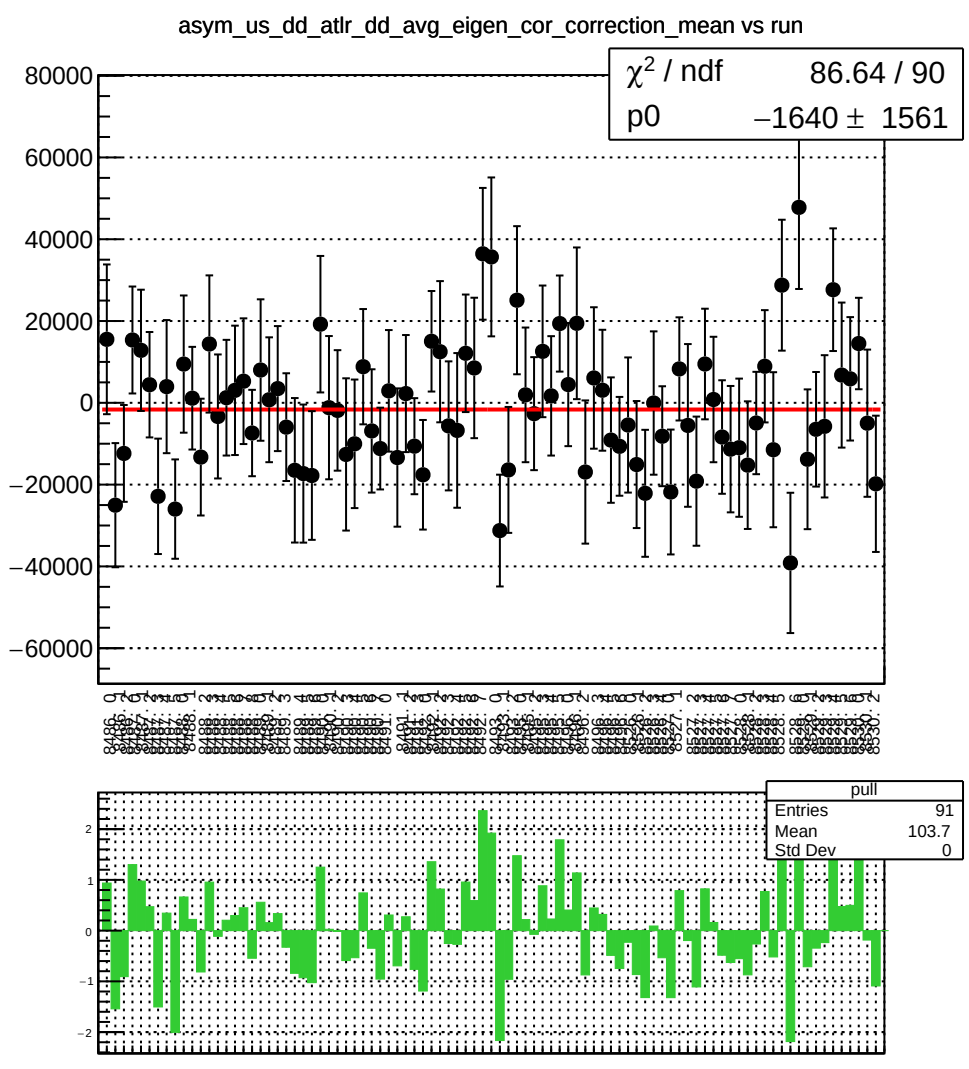

asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
χ² / ndf 86.64 / 90
p0 −1640 ± 1561
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 103.7
Std Dev 0
2
1
0
−1
−2

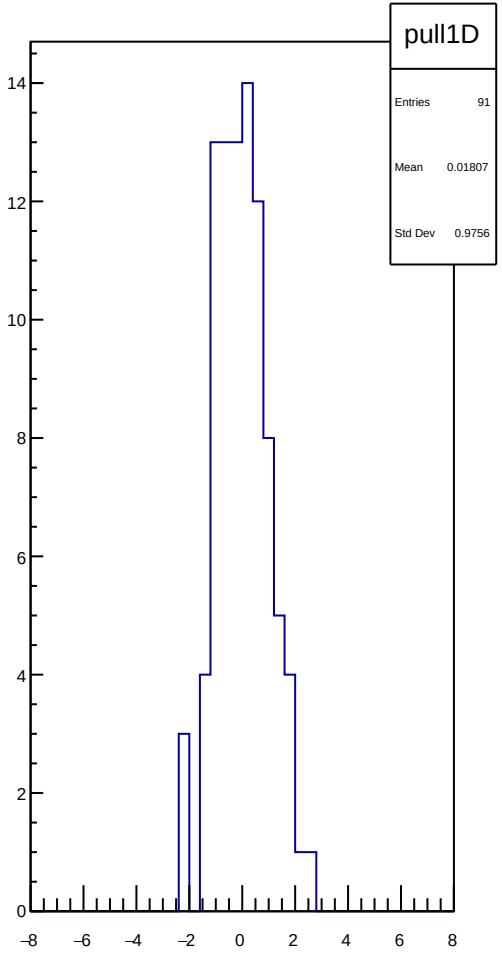

pull1D
Entries 91
Mean 0.01807
Std Dev 0.9756
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

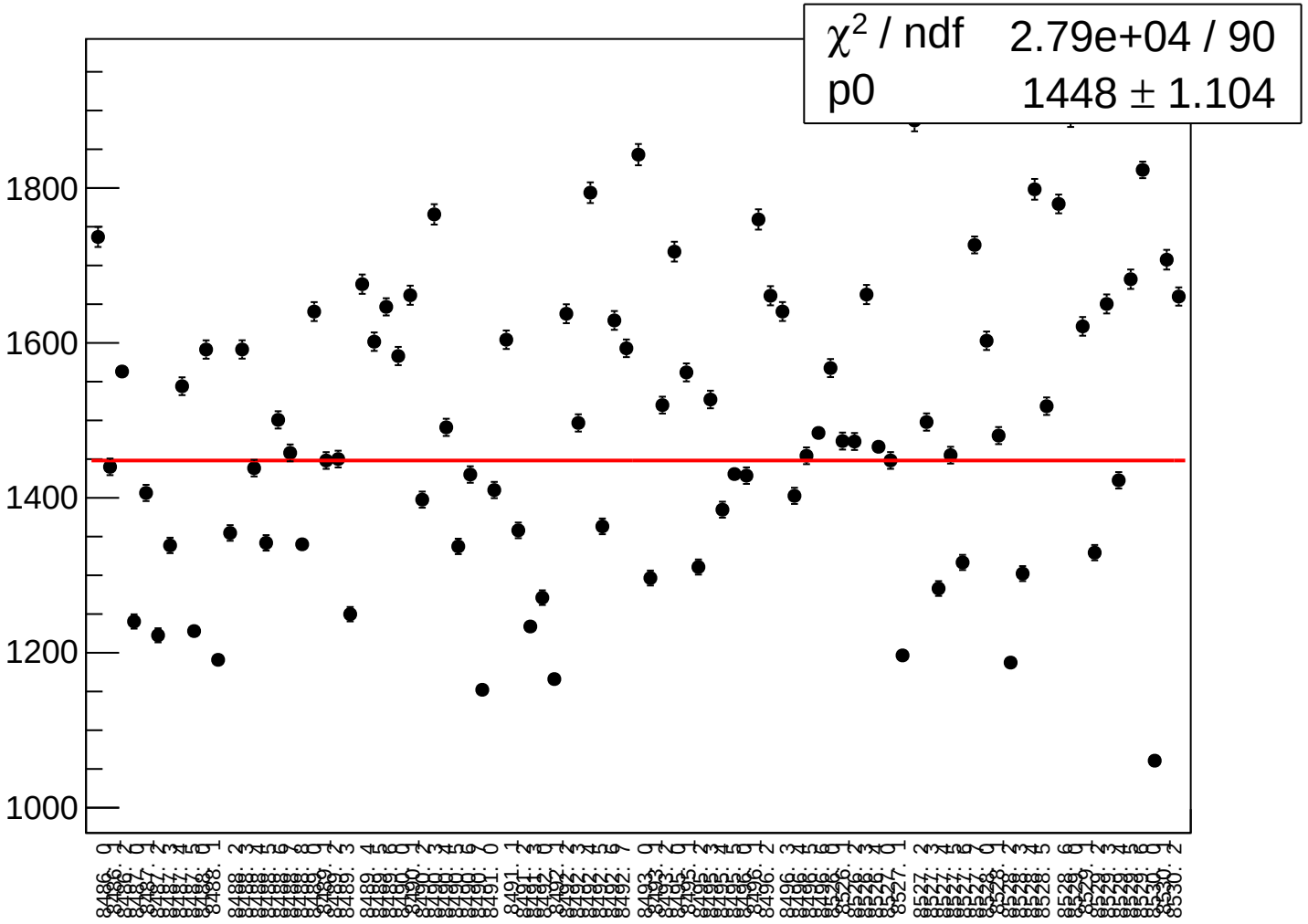

asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 2.79e+04 / 90
p0 1448 ± 1.104
1800
1600
1400
1200
1000

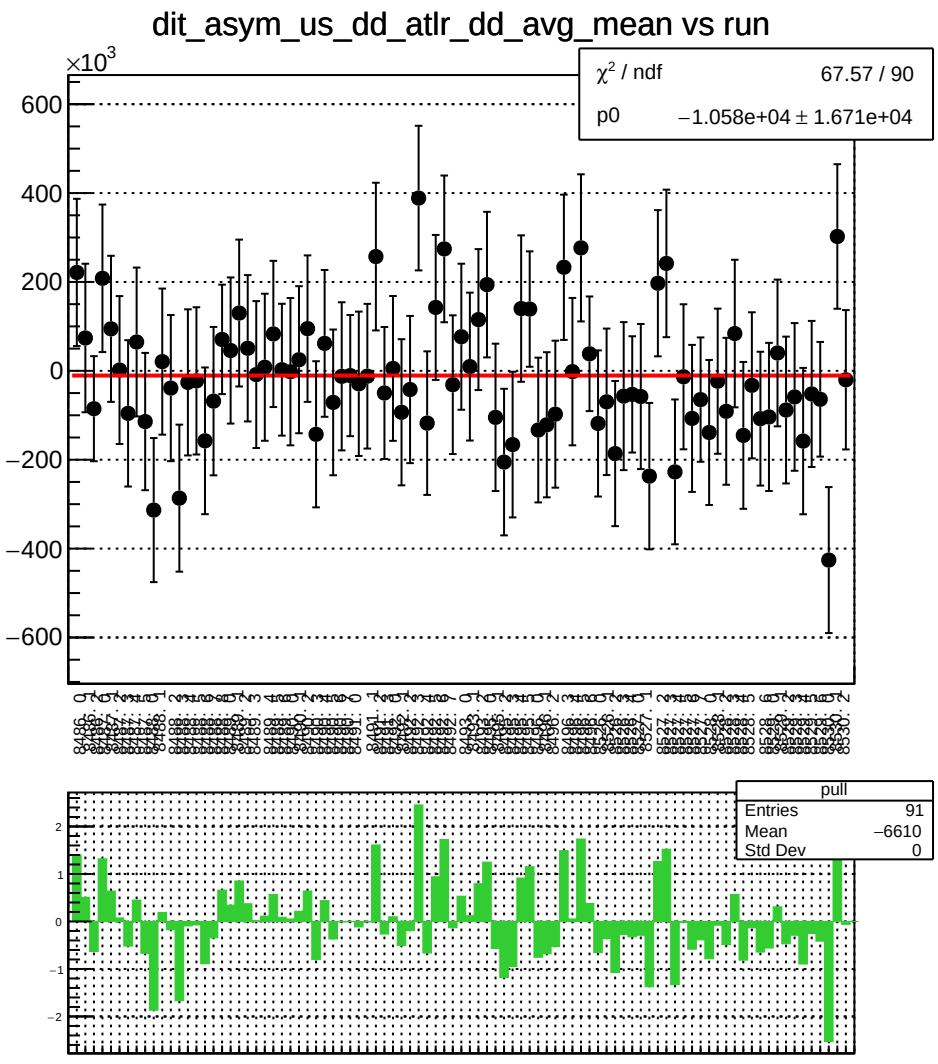

eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
×10^3
χ² / ndf 67.82 / 90
p0 −1.121e+04 ± 1.671e+04
pull
Entries 91
Mean −1.073e+04
Std Dev 0
pull1D
Entries 91
Mean 0.000308
Std Dev 0.8633

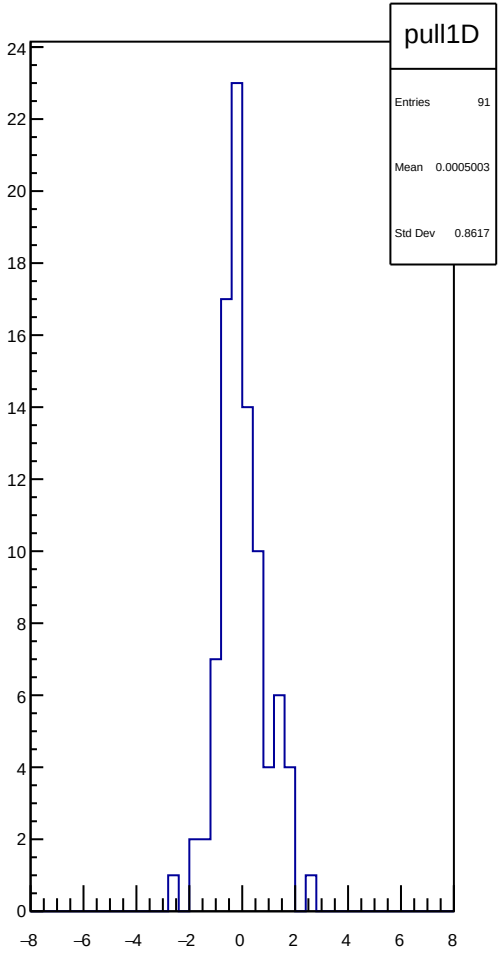

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 95.2 / 90
p0 1.562e+04 ± 11.81
16000
15900
15800
15700
15600
15500
15400
15300
15200

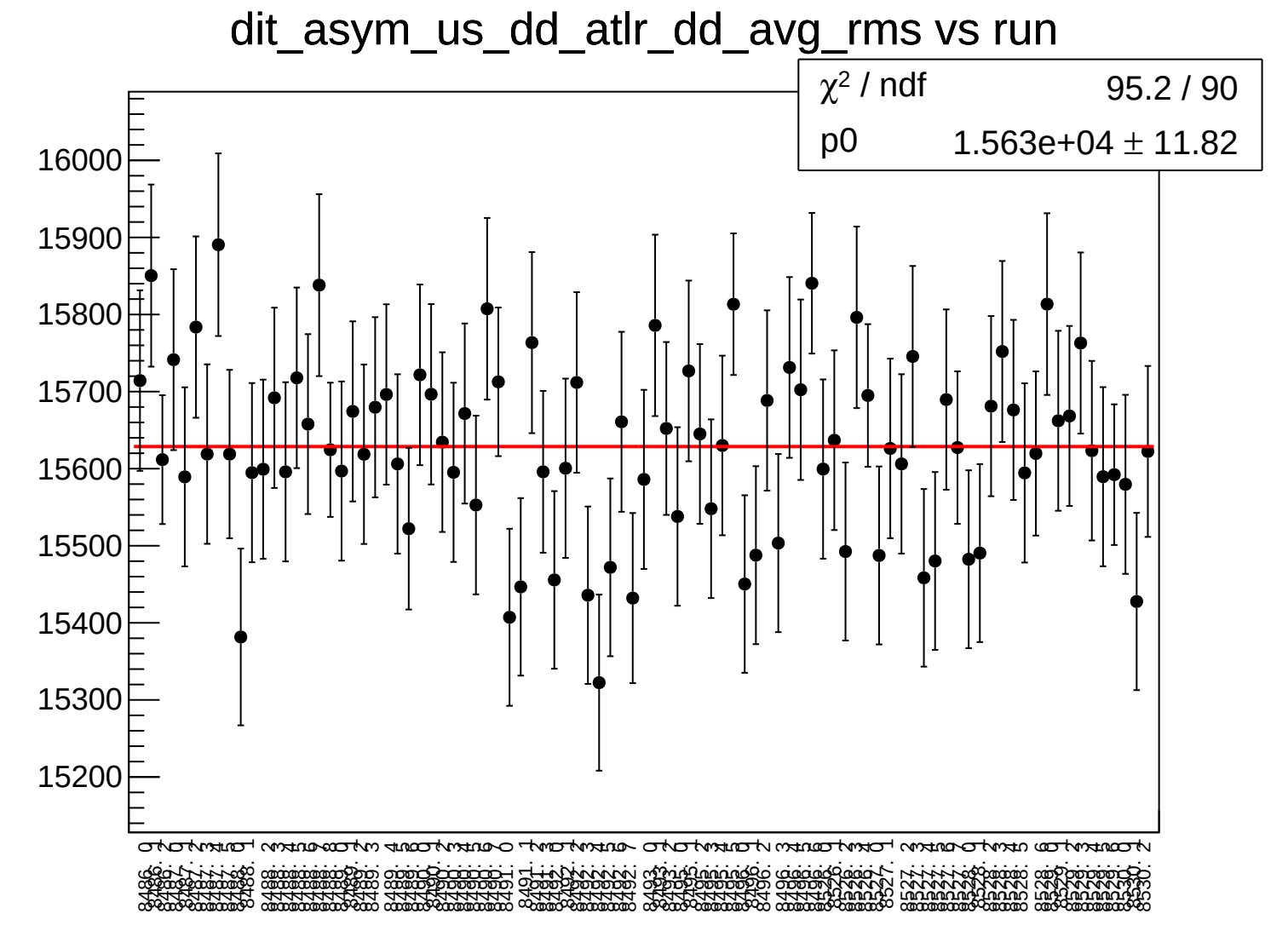

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 86.64 / 90
p0 −1640 ± 1561
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 103.7
Std Dev 0
2
1
0
−1
−2

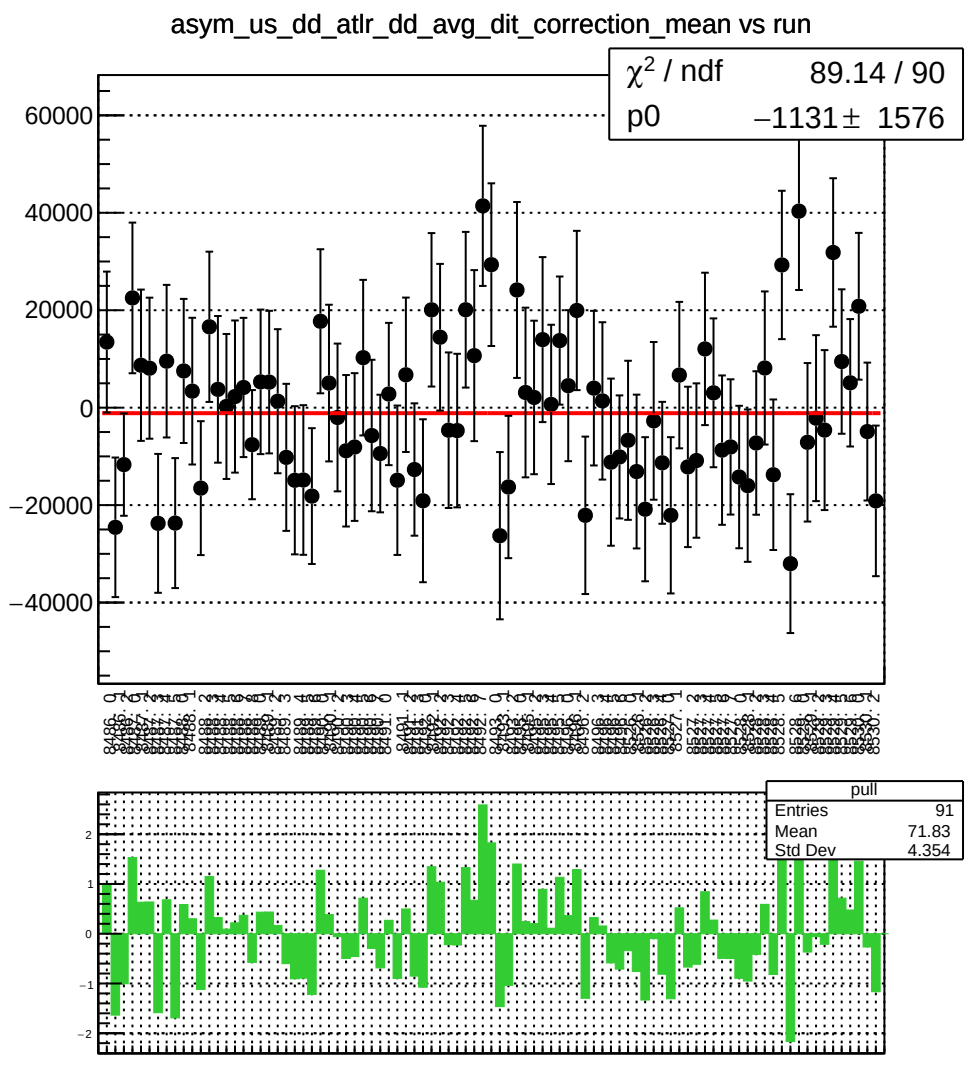

pull1D
Entries 91
Mean 0.01807
Std Dev 0.9756
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

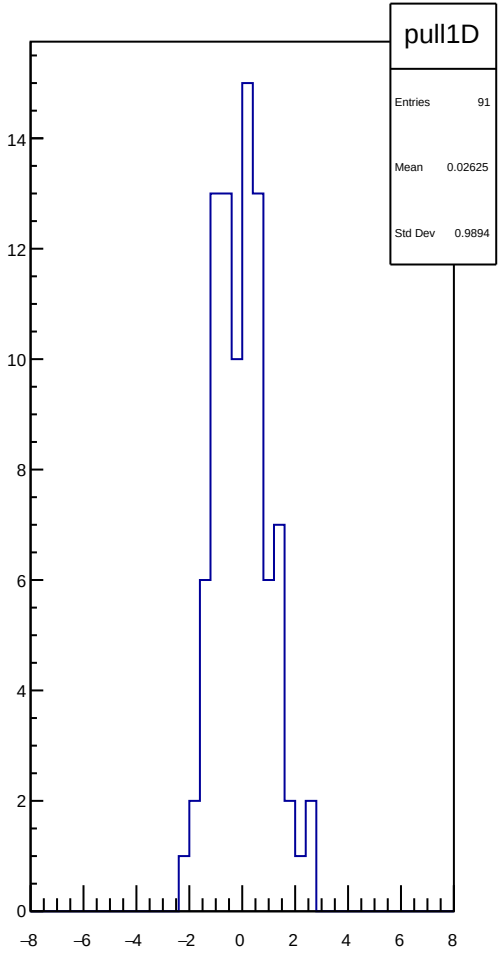

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.79e+04 / 90
p0 1448 ± 1.104
1800
1600
1400
1200
1000

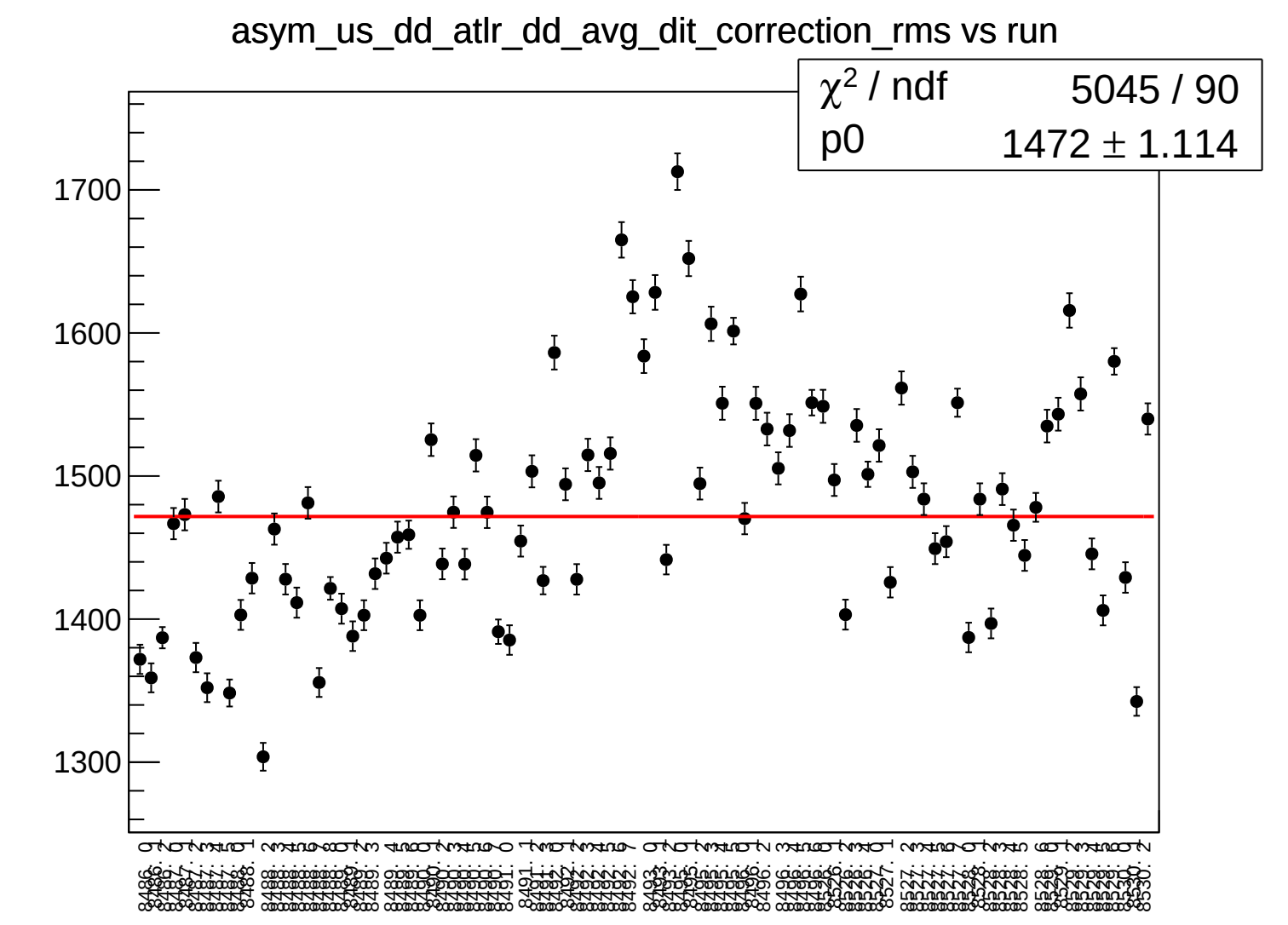

dit_asym_us_dd_atlr_dd_avg_mean vs run
×10^3
χ² / ndf 67.57 / 90
p0 −1.058e+04 ± 1.671e+04
pull
Entries 91
Mean −6610
Std Dev 0

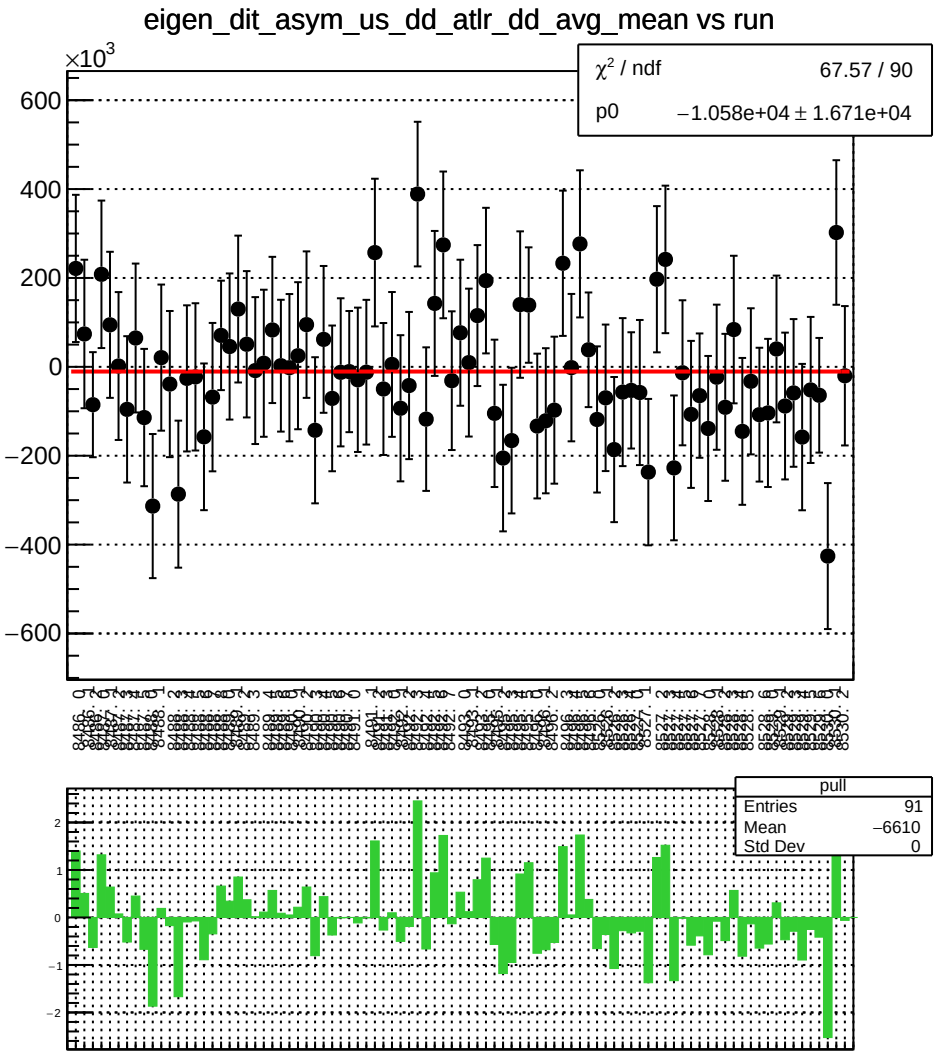

pull1D
Entries 91
Mean 0.0005003
Std Dev 0.8617

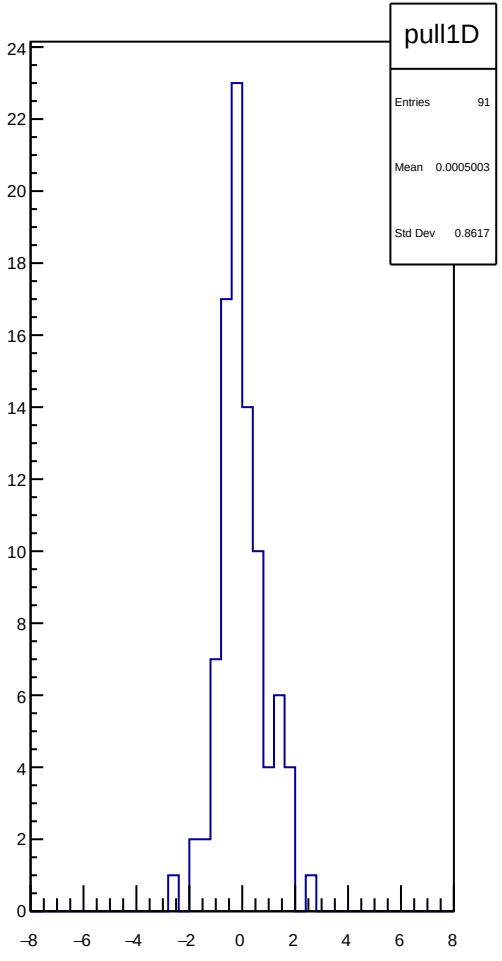

dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 95.2 / 90
p0 1.563e+04 ± 11.82
16000
15900
15800
15700
15600
15500
15400
15300
15200

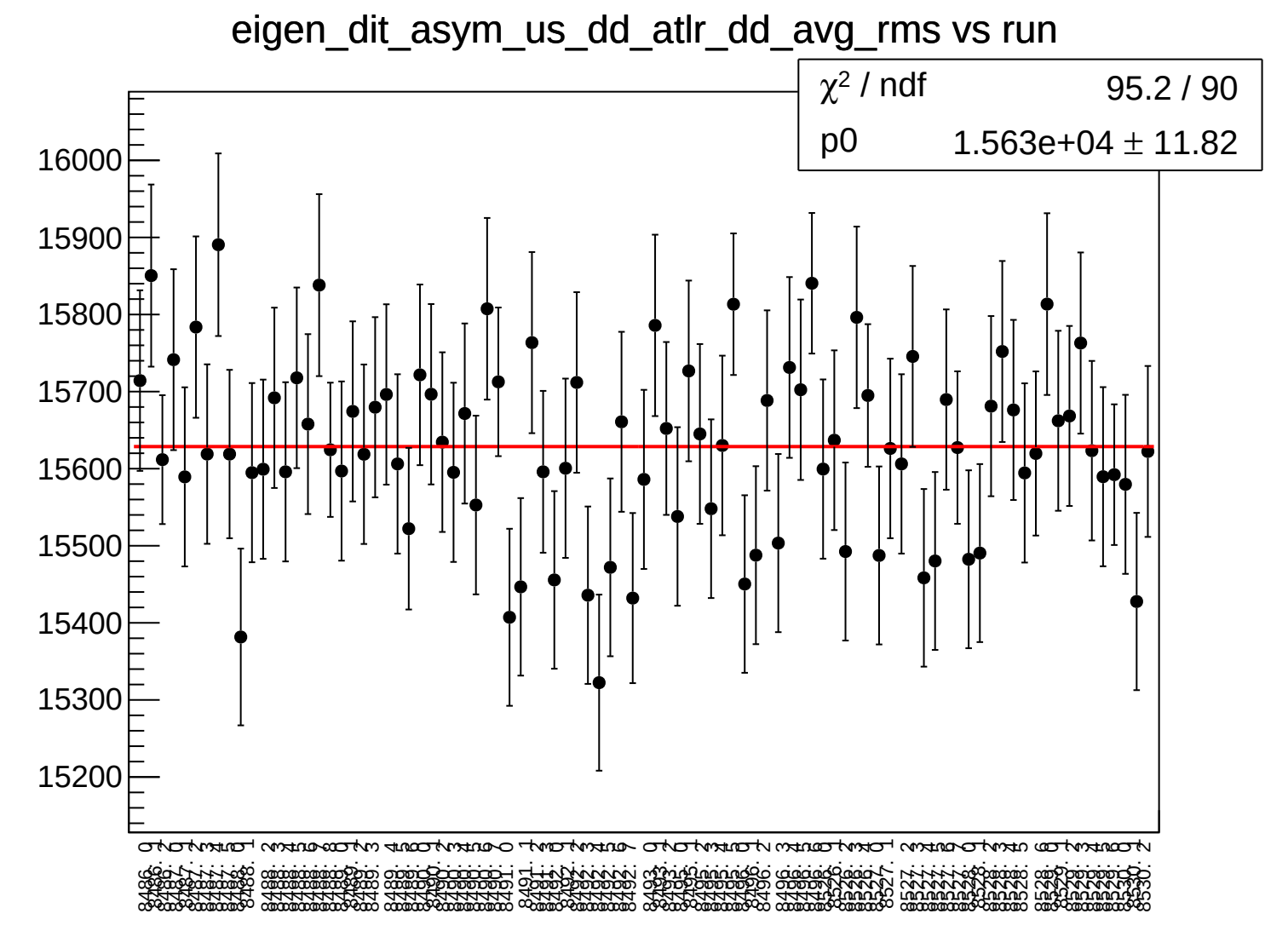

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
χ² / ndf 89.14 / 90
p0 −1131 ± 1576
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 71.83
Std Dev 4.354
2
1
0
−1
−2

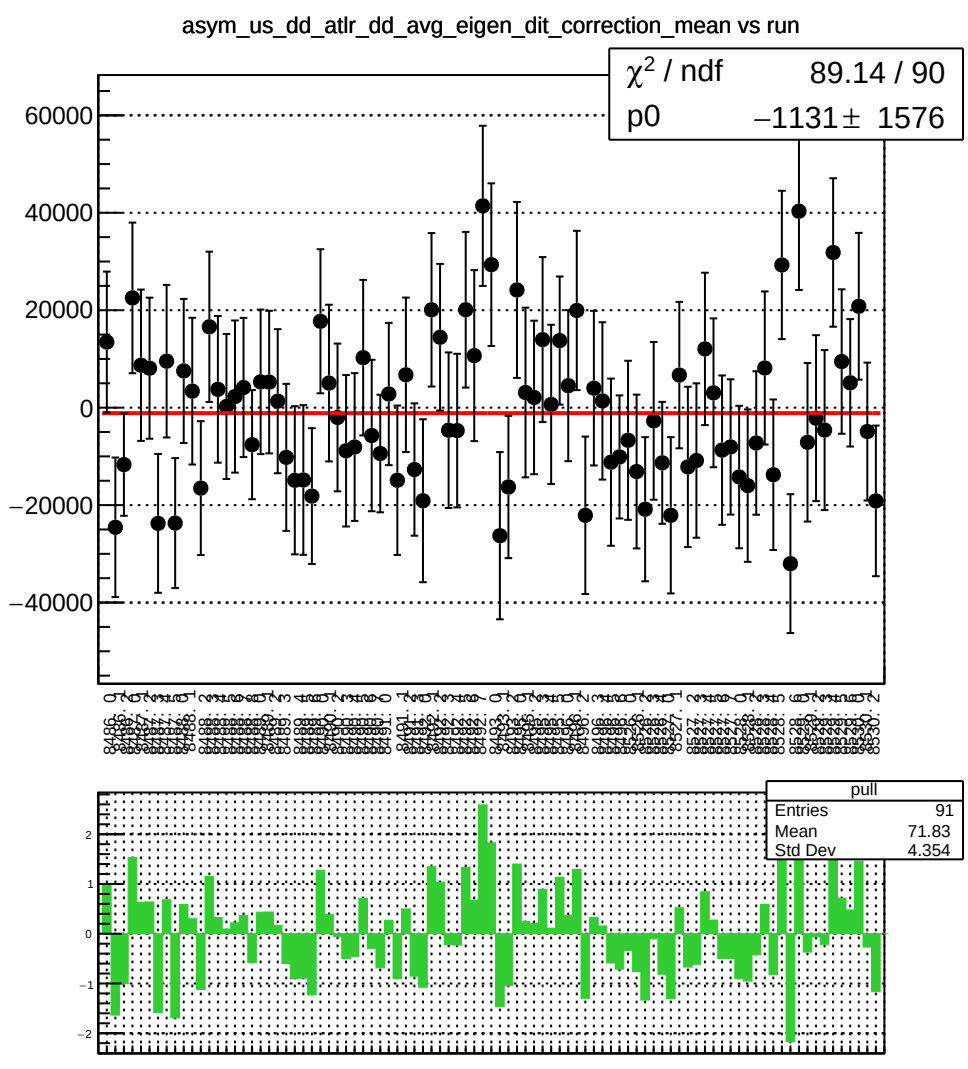

pull1D
Entries 91
Mean 0.02625
Std Dev 0.9894
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

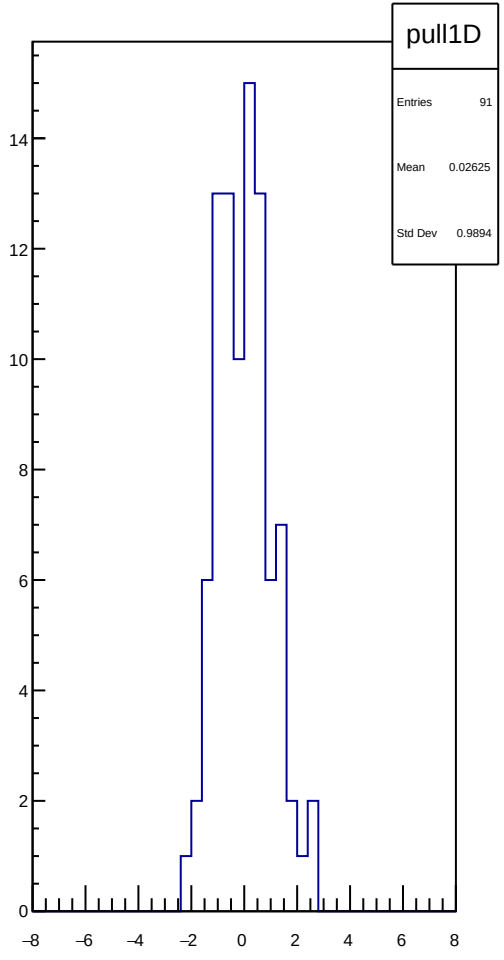

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ² / ndf 5045 / 90
p0 1472 ± 1.114
1700
1600
1500
1400
1300

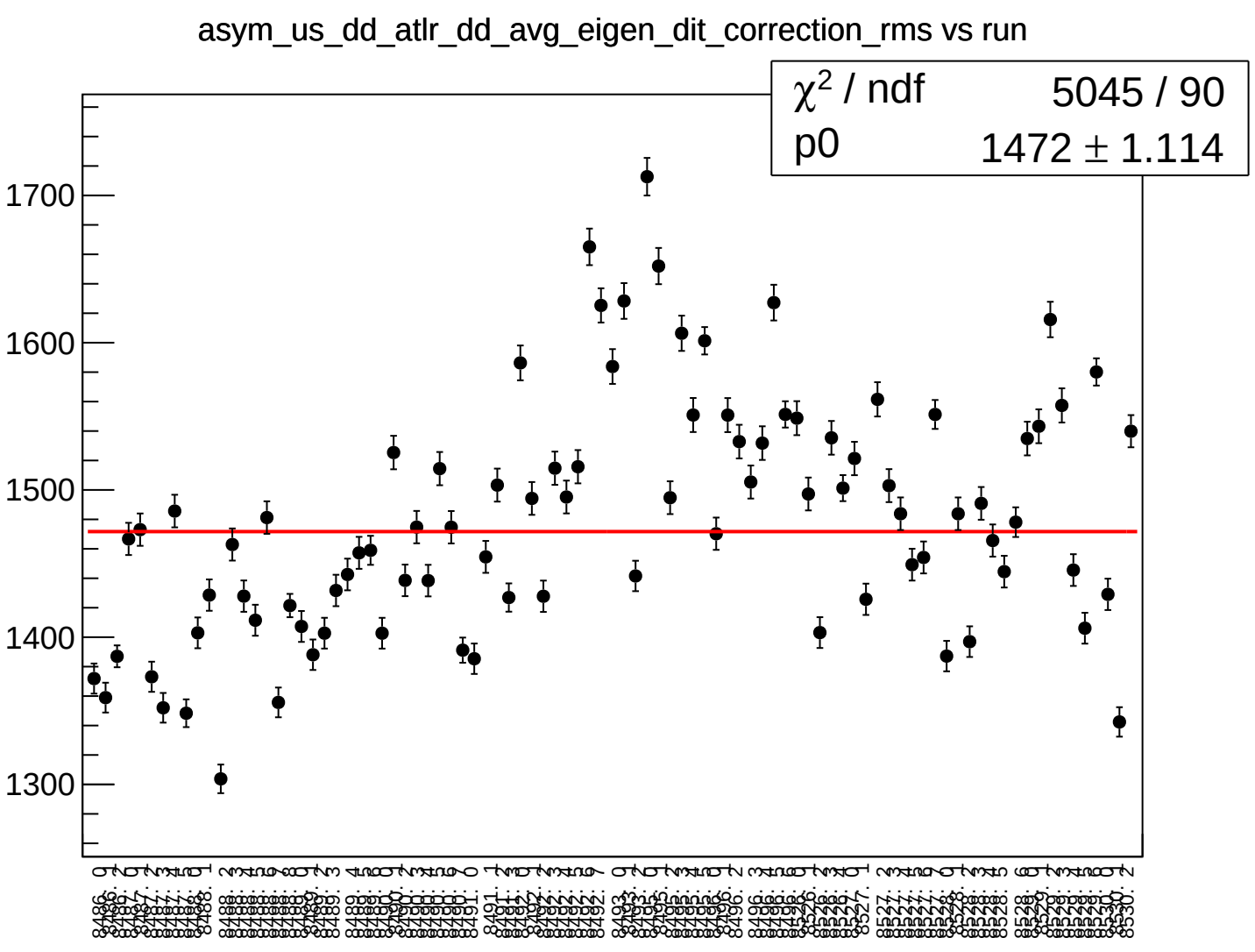

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
×10^3
χ² / ndf 67.57 / 90
p0 −1.058e+04 ± 1.671e+04
pull
Entries 91
Mean −6610
Std Dev 0

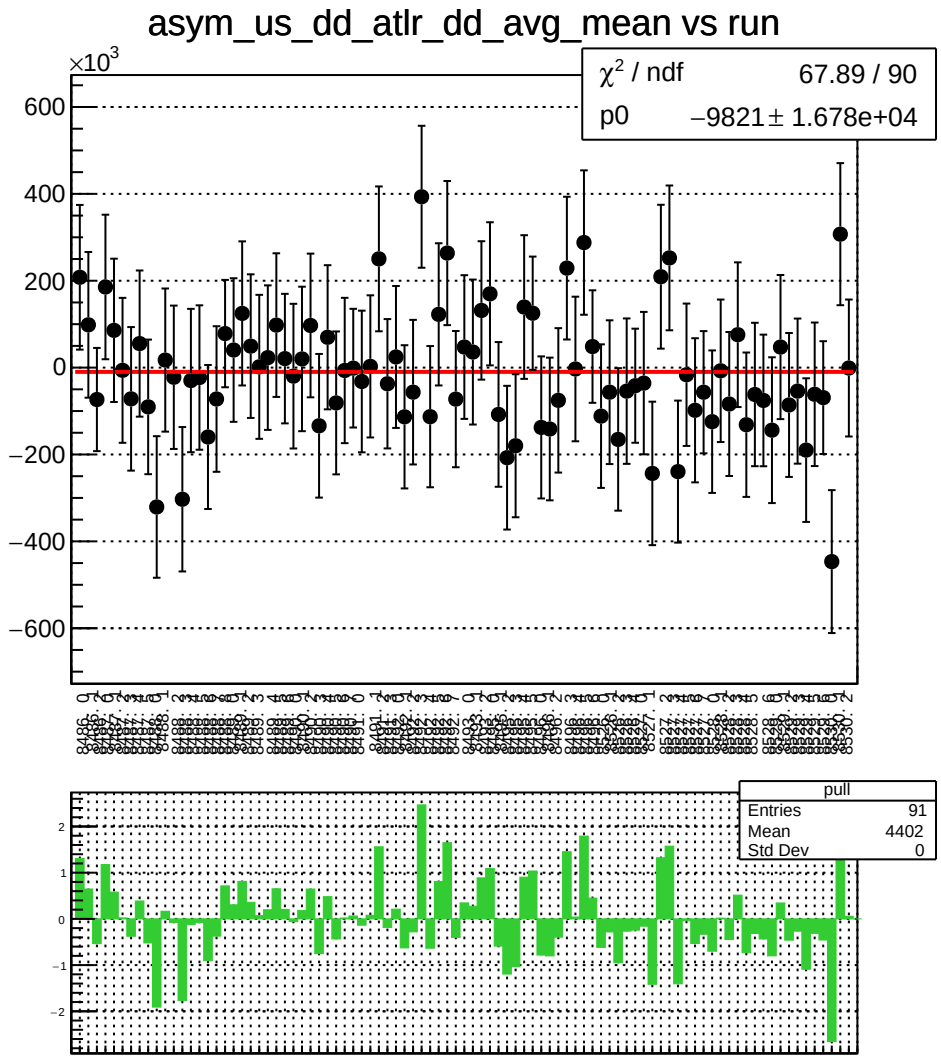

pull1D
Entries 91
Mean 0.0005003
Std Dev 0.8617

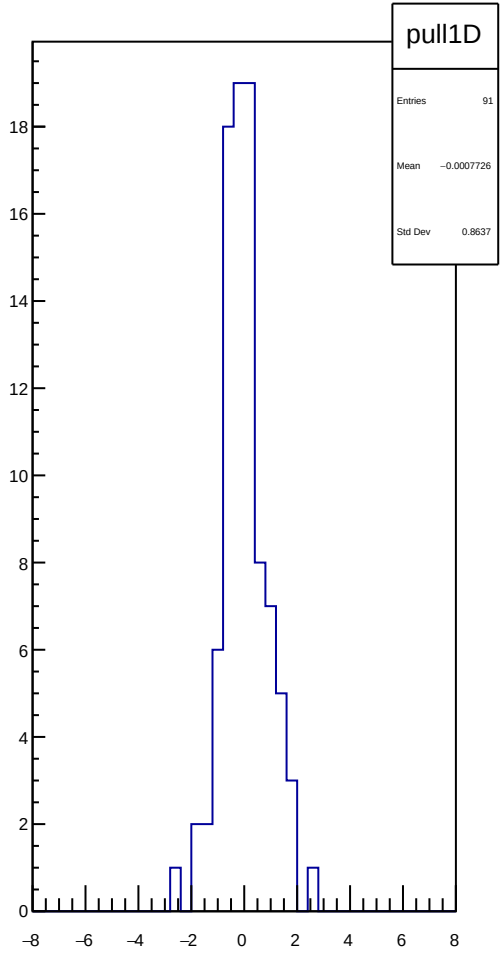

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 95.2 / 90
p0 1.563e+04 ± 11.82
16000
15900
15800
15700
15600
15500
15400
15300
15200

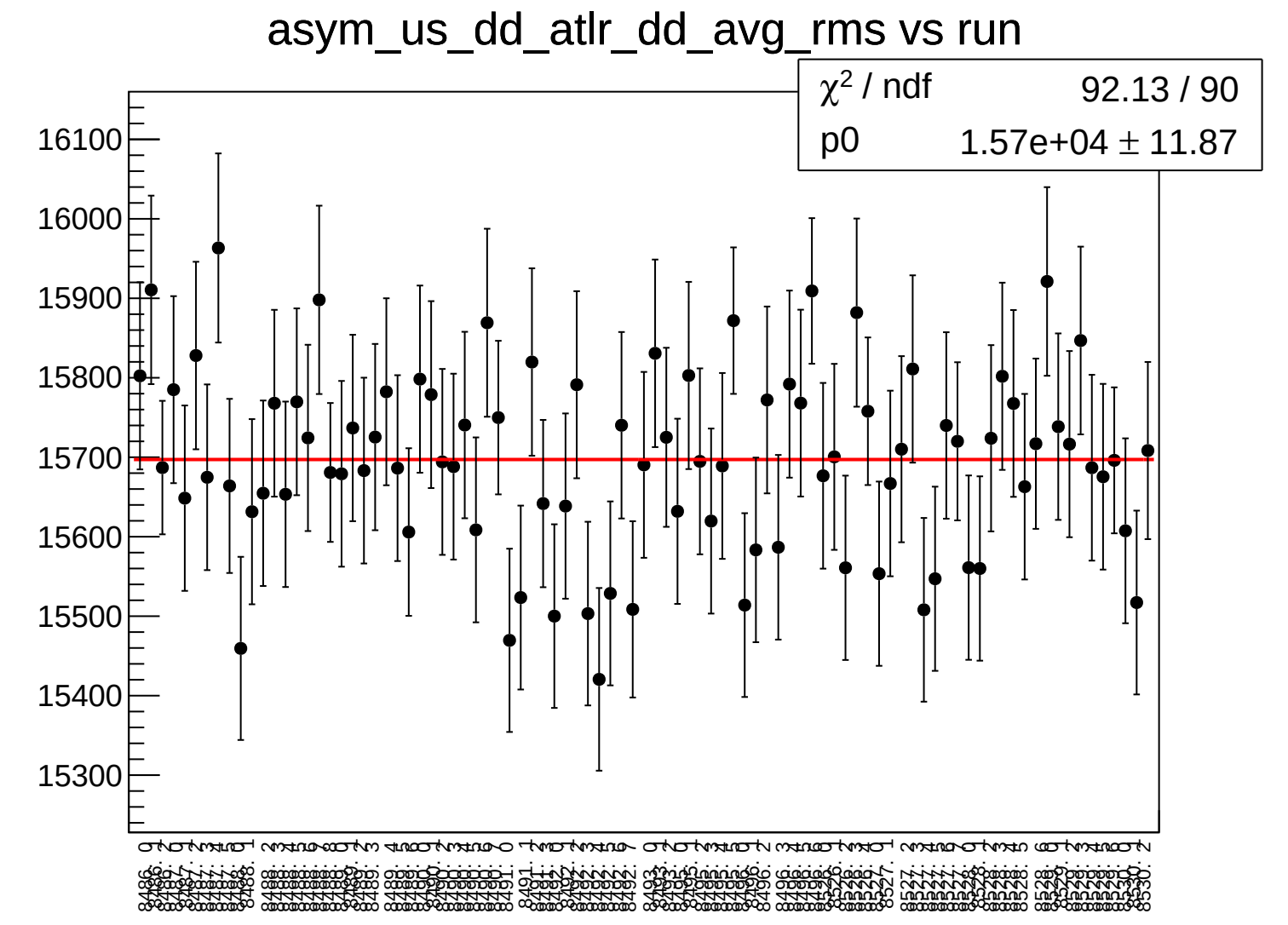

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 89.14 / 90
p0 −1131 ± 1576
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 71.83
Std Dev 4.354
2
1
0
−1
−2

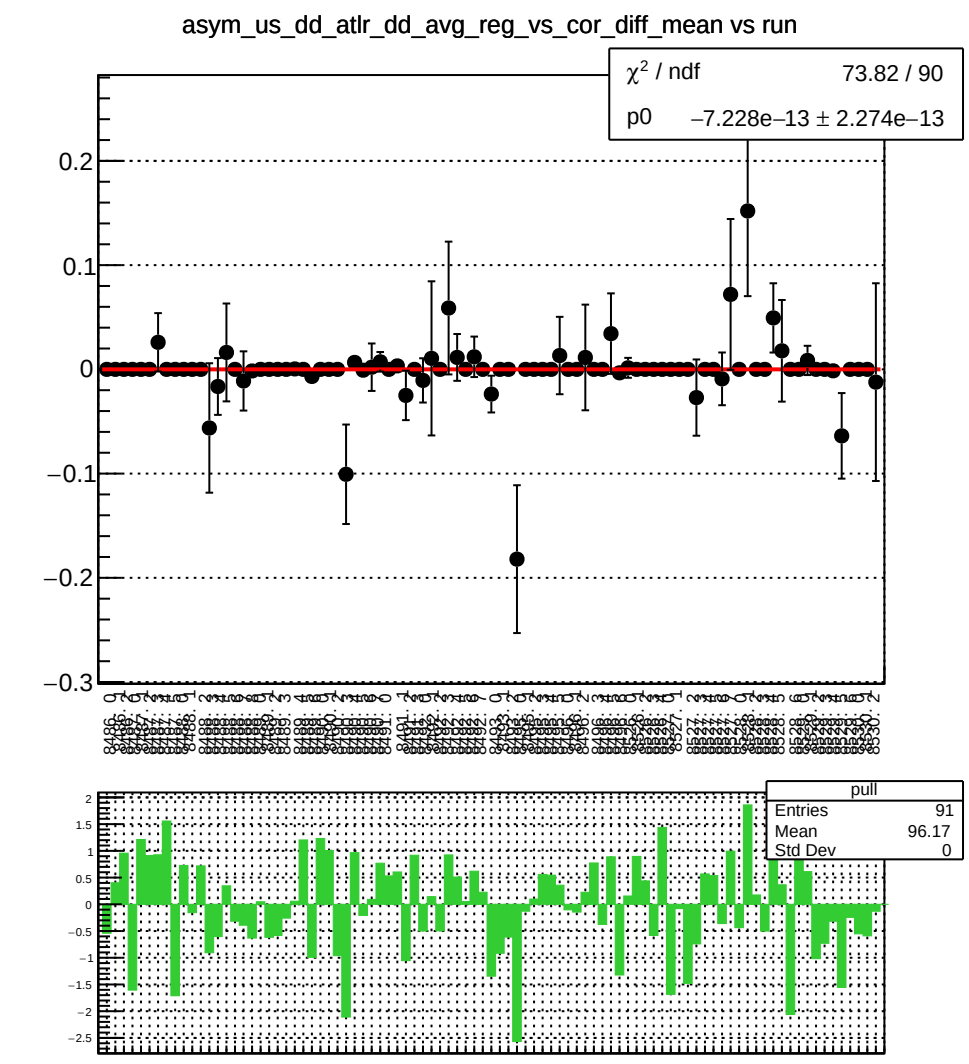

pull1D
Entries 91
Mean 0.02625
Std Dev 0.9894
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

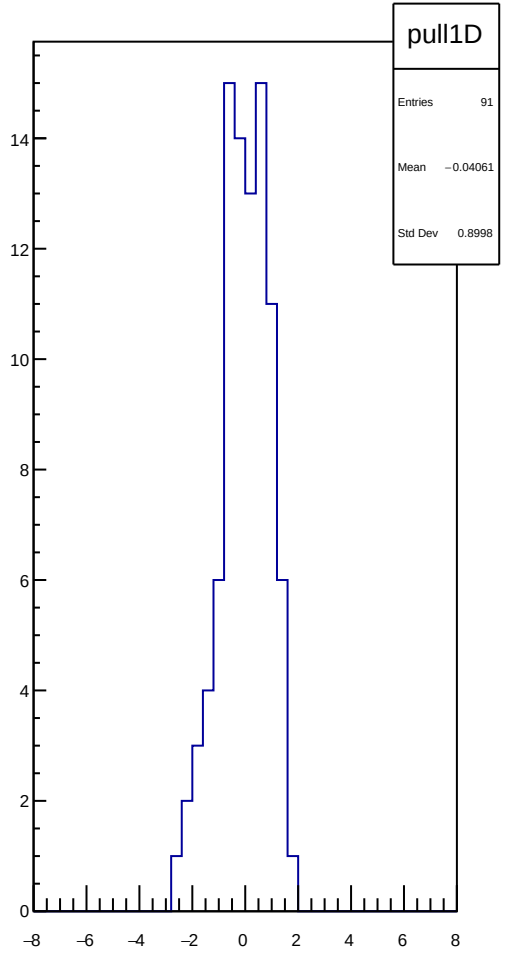

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 5045 / 90
p0 1472 ± 1.114
1700
1600
1500
1400
1300

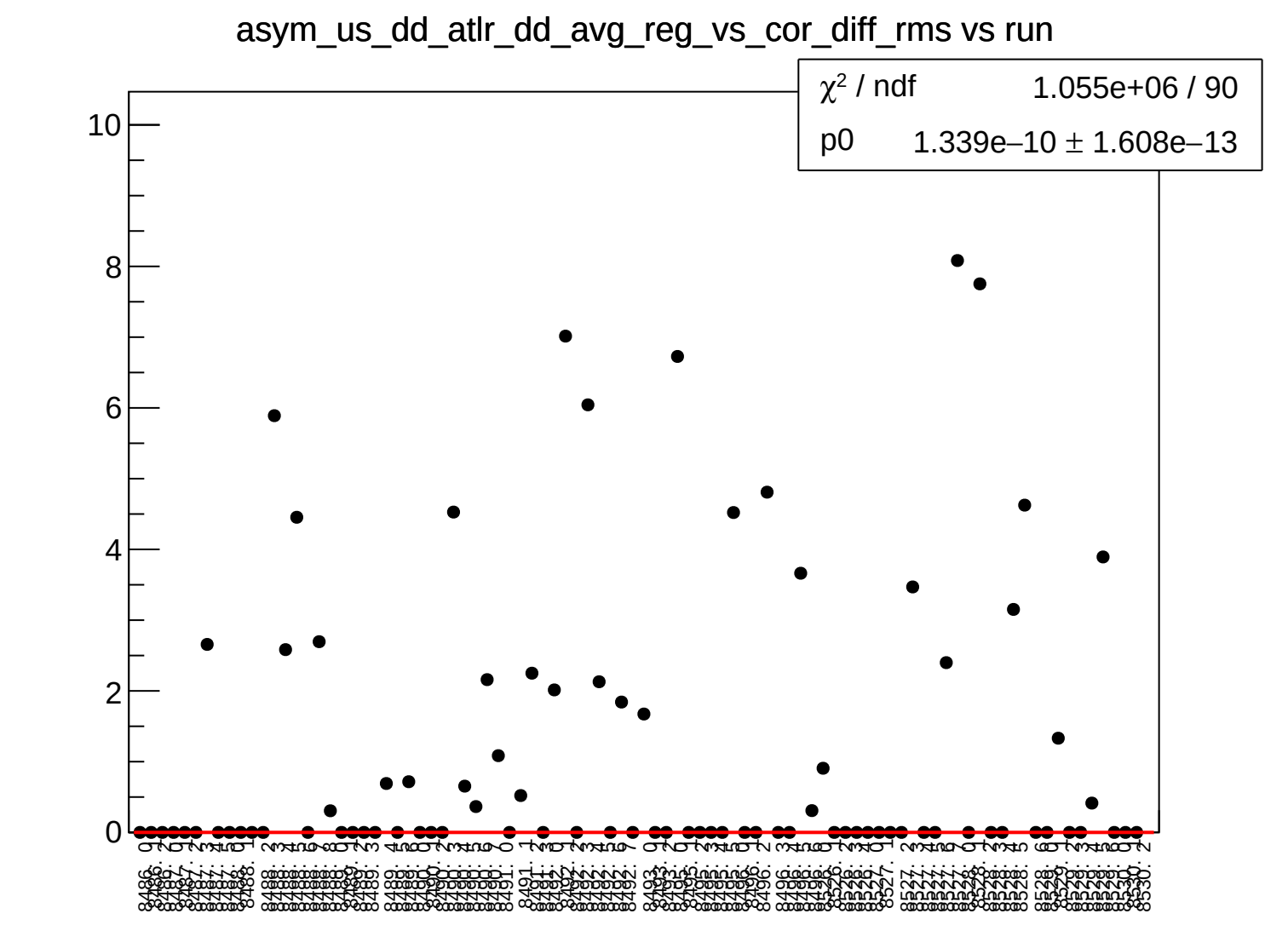

asym_us_dd_atlr_dd_avg_mean vs run
×10^3
χ² / ndf 67.89 / 90
p0 −9821 ± 1.678e+04
600
400
200
0
−200
−400
−600
pull
Entries 91
Mean 4402
Std Dev 0
2
1
0
−1
−2

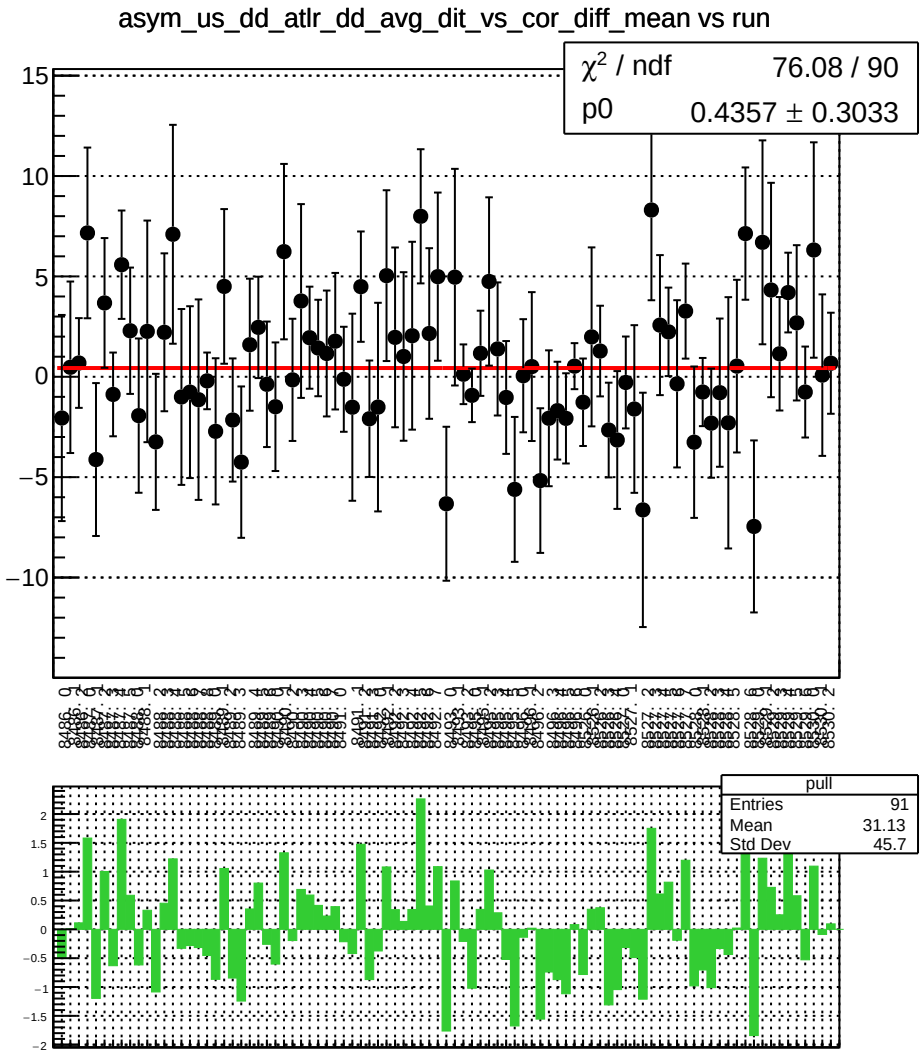

pull1D
Entries 91
Mean −0.0007726
Std Dev 0.8637
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

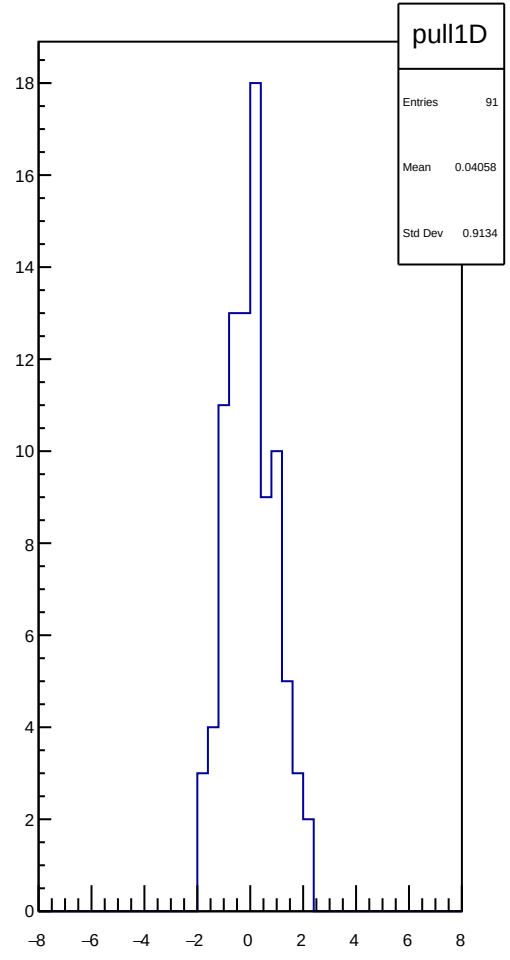

asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 92.13 / 90
p0 1.57e+04 ± 11.87
16100
16000
15900
15800
15700
15600
15500
15400
15300

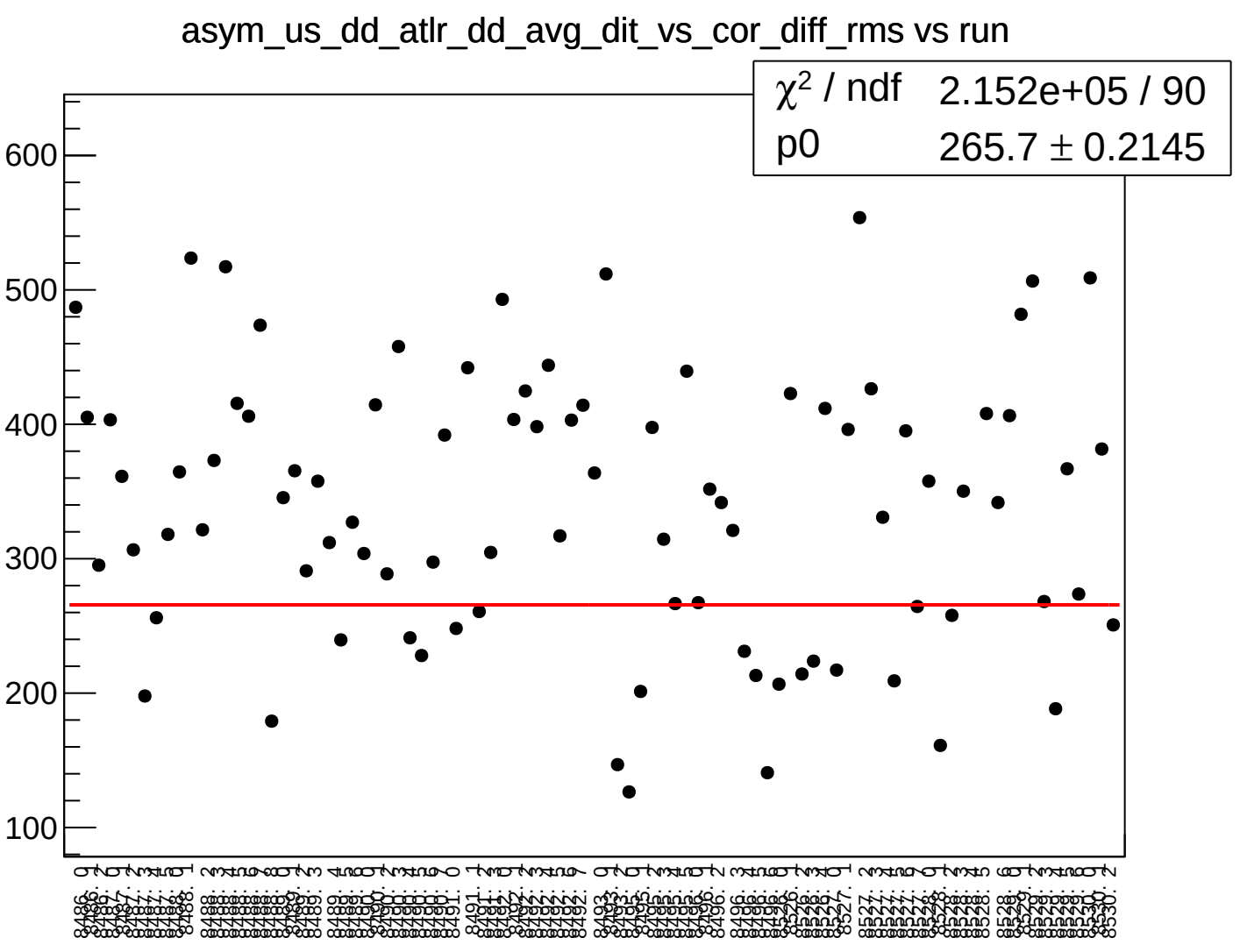

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 73.82 / 90
p0 −7.228e−13 ± 2.274e−13
pull
Entries 91
Mean 96.17
Std Dev 0

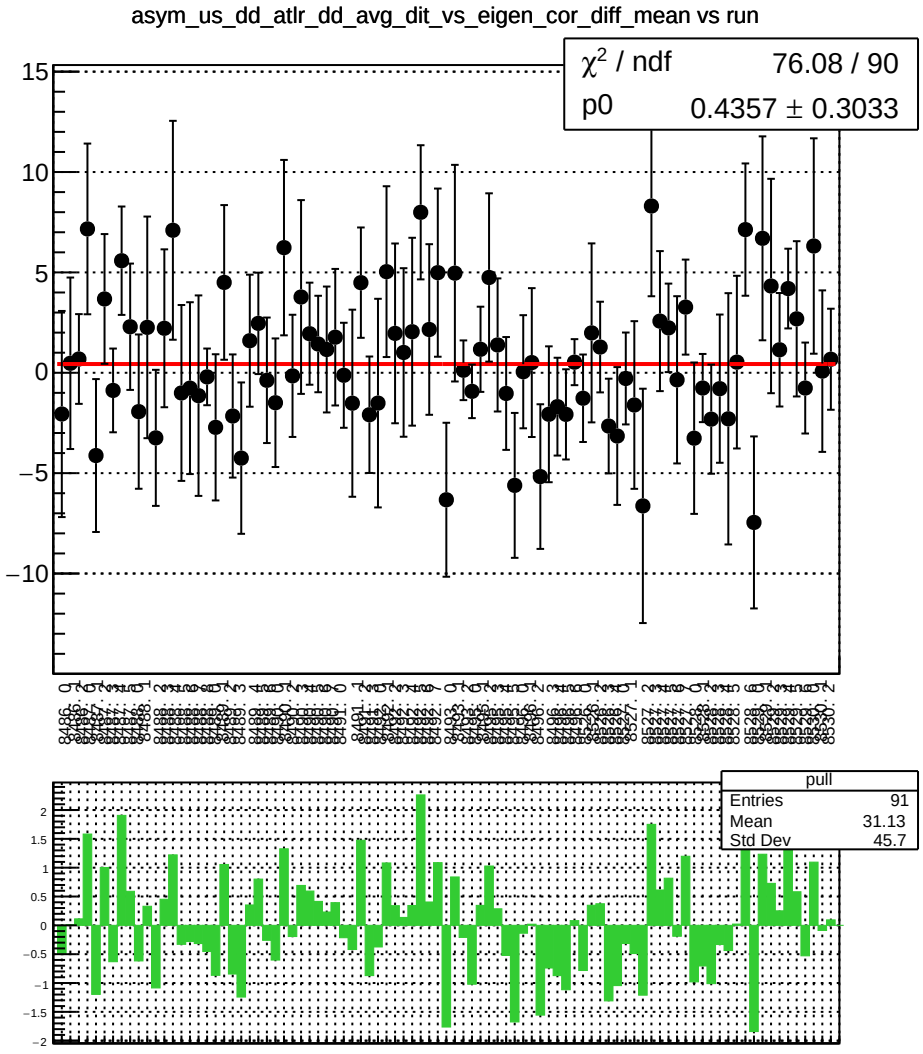

pull1D
Entries 91
Mean −0.04061
Std Dev 0.8998

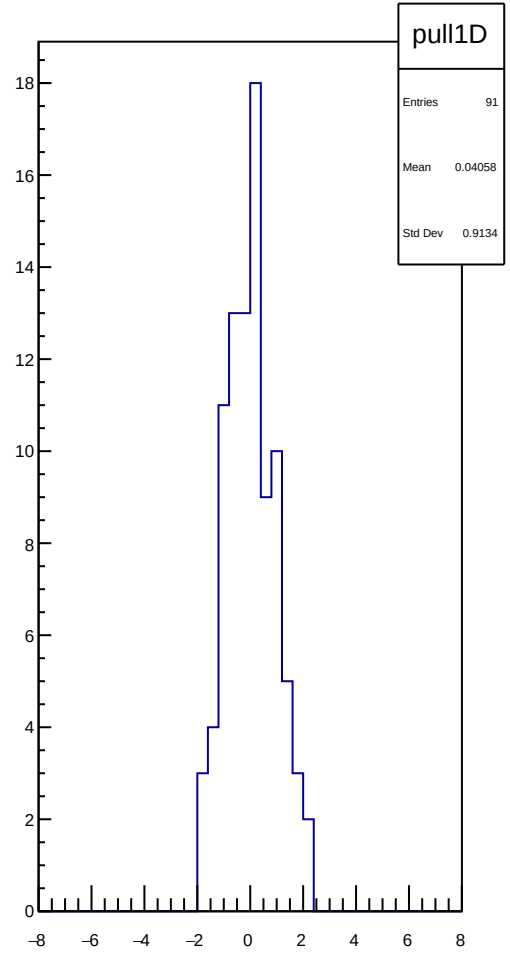

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.055e+06 / 90
p0 1.339e−10 ± 1.608e−13
10
8
6
4
2
0

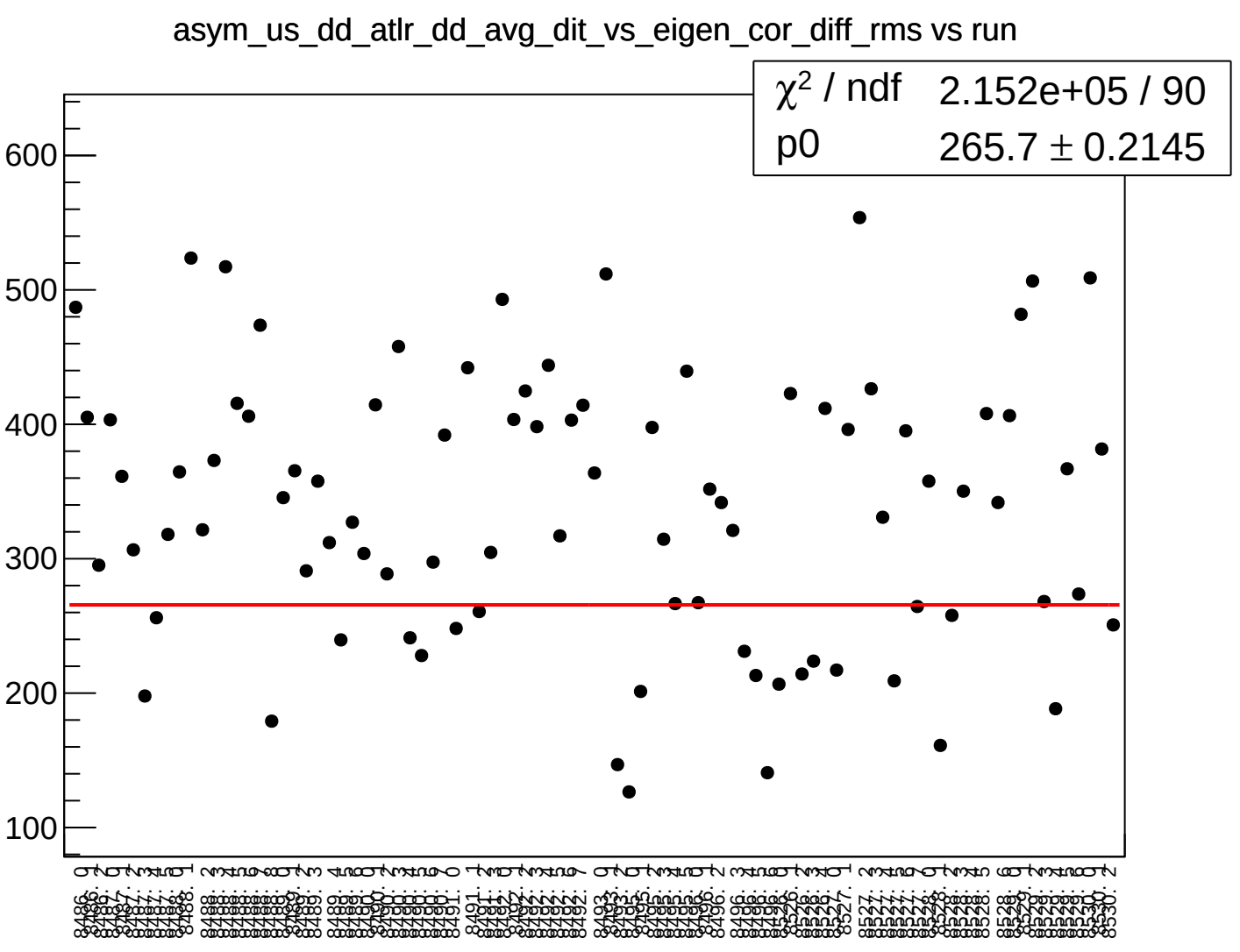

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 76.08 / 90
p0 0.4357 ± 0.3033
pull
Entries 91
Mean 31.13
Std Dev 45.7

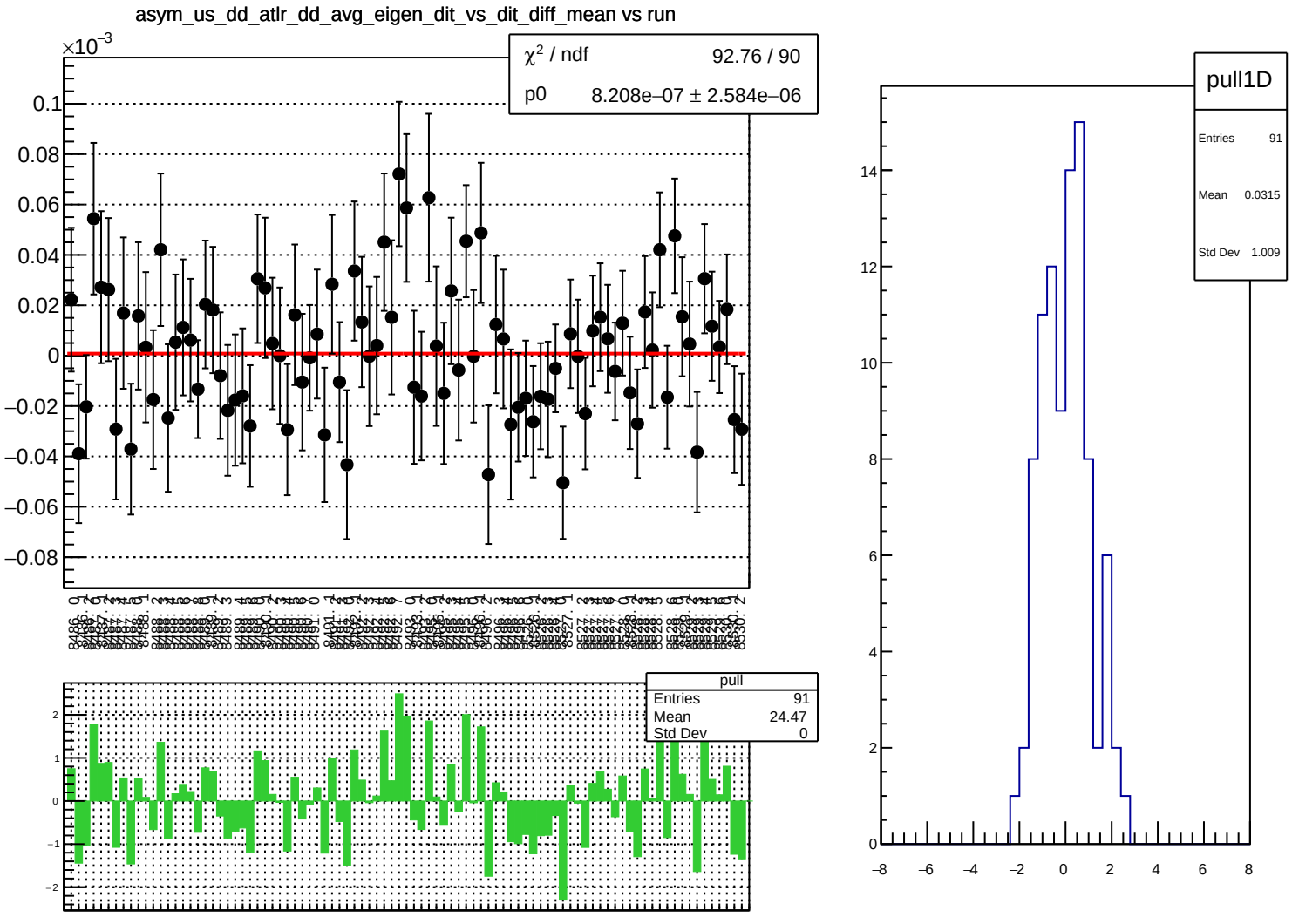

pull1D
Entries 91
Mean 0.04058
Std Dev 0.9134

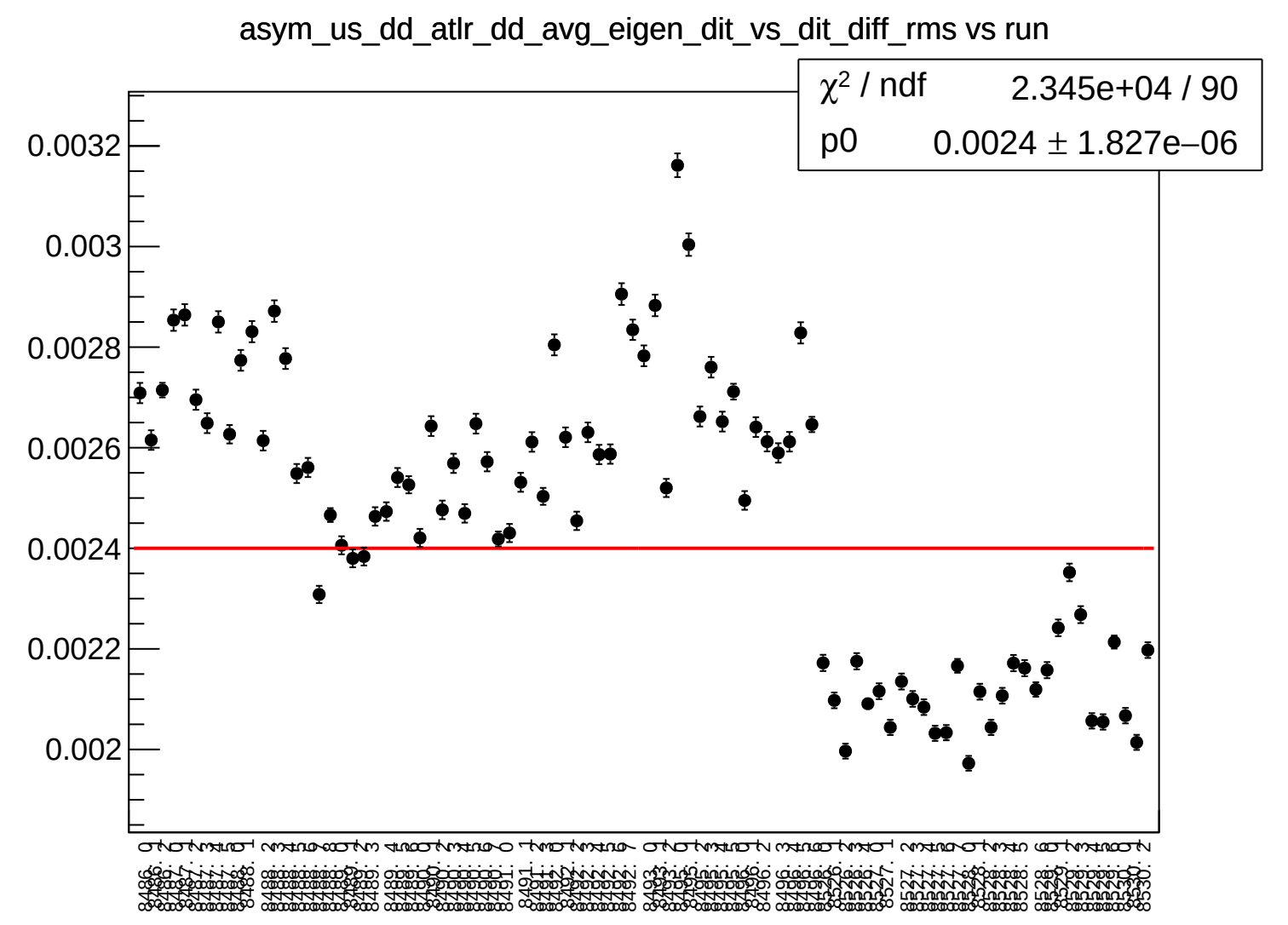

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.152e+05 / 90
p0 265.7 ± 0.2145
600
500
400
300
200
100

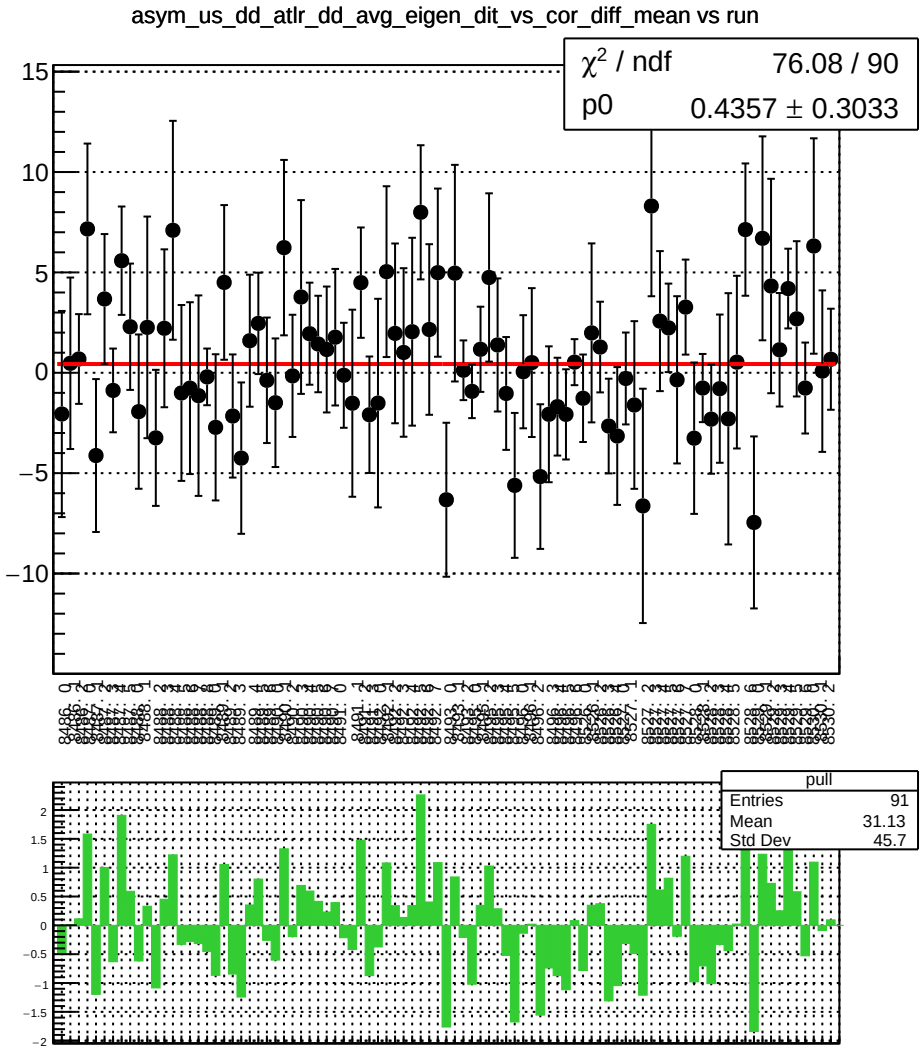

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.08 / 90
p0 0.4357 ± 0.3033
pull
Entries 91
Mean 31.13
Std Dev 45.7

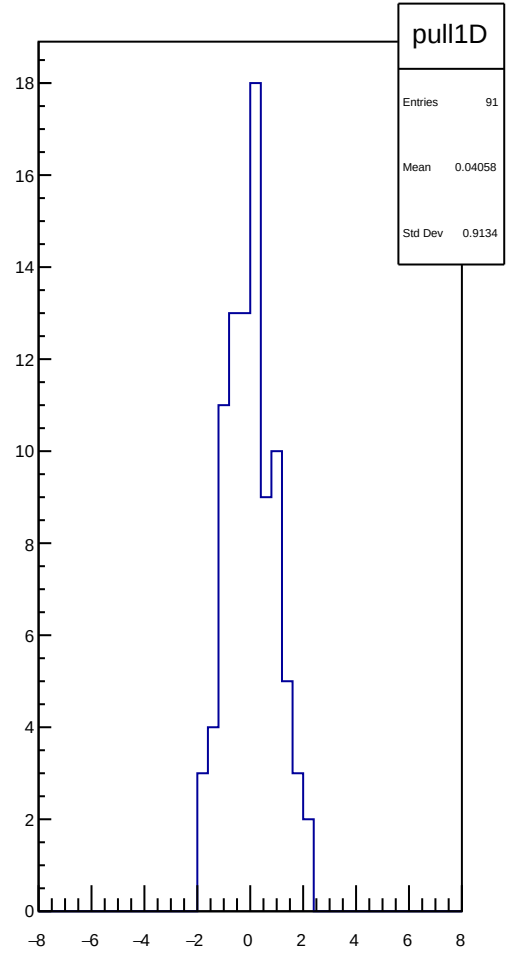

pull1D
Entries 91
Mean 0.04058
Std Dev 0.9134

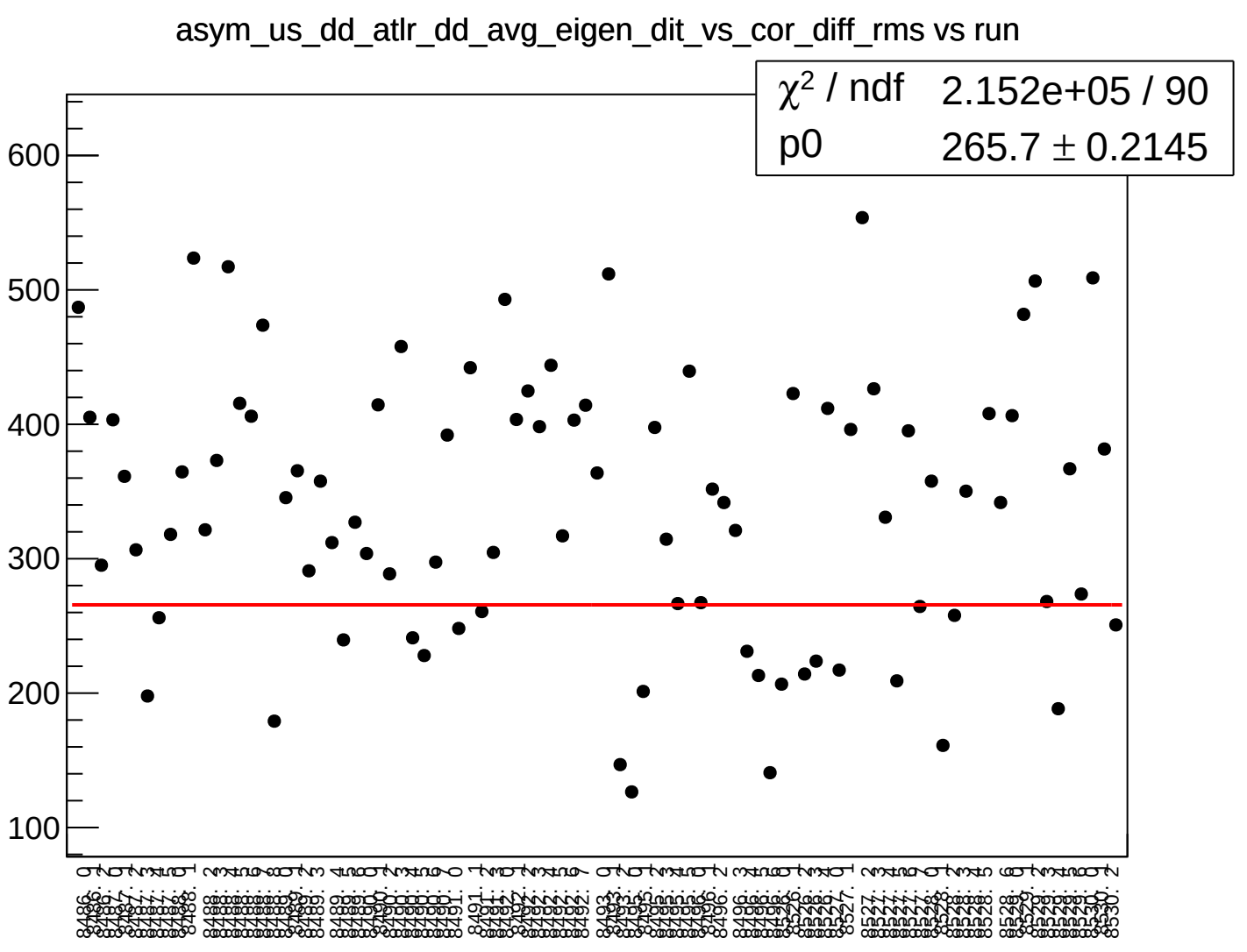

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.152e+05 / 90
p0 265.7 ± 0.2145
600
500
400
300
200
100

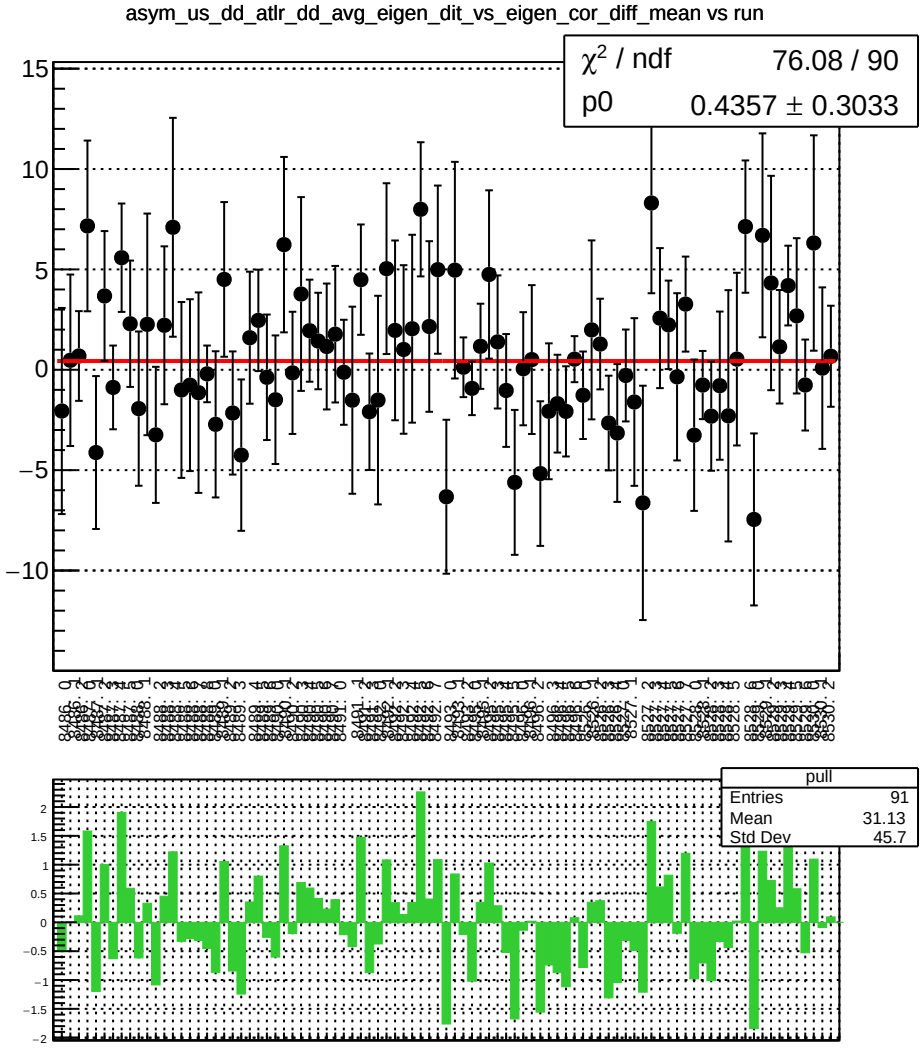

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.76 / 90
p0 8.208e−07 ± 2.584e−06
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 91
Mean 24.47
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.0315
Std Dev 1.009
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

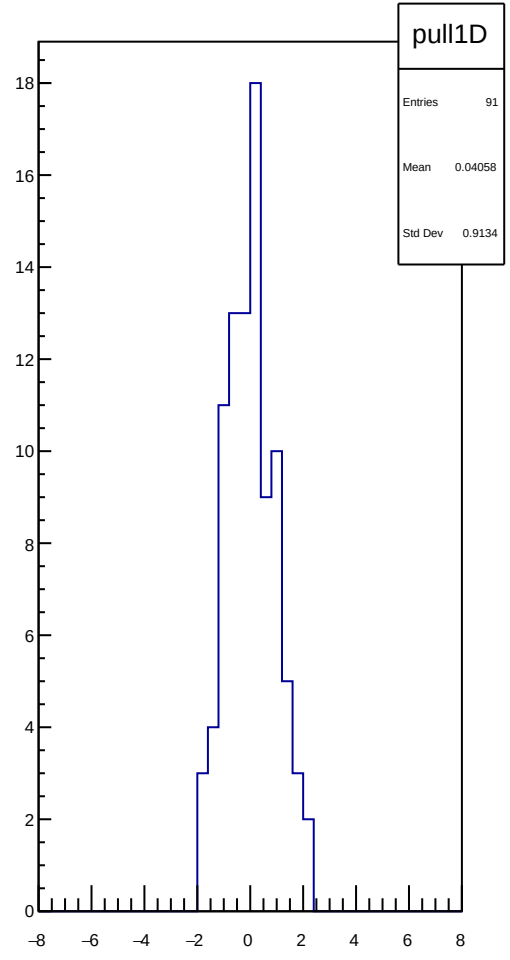

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.345e+04 / 90
p0 0.0024 ± 1.827e−06
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002

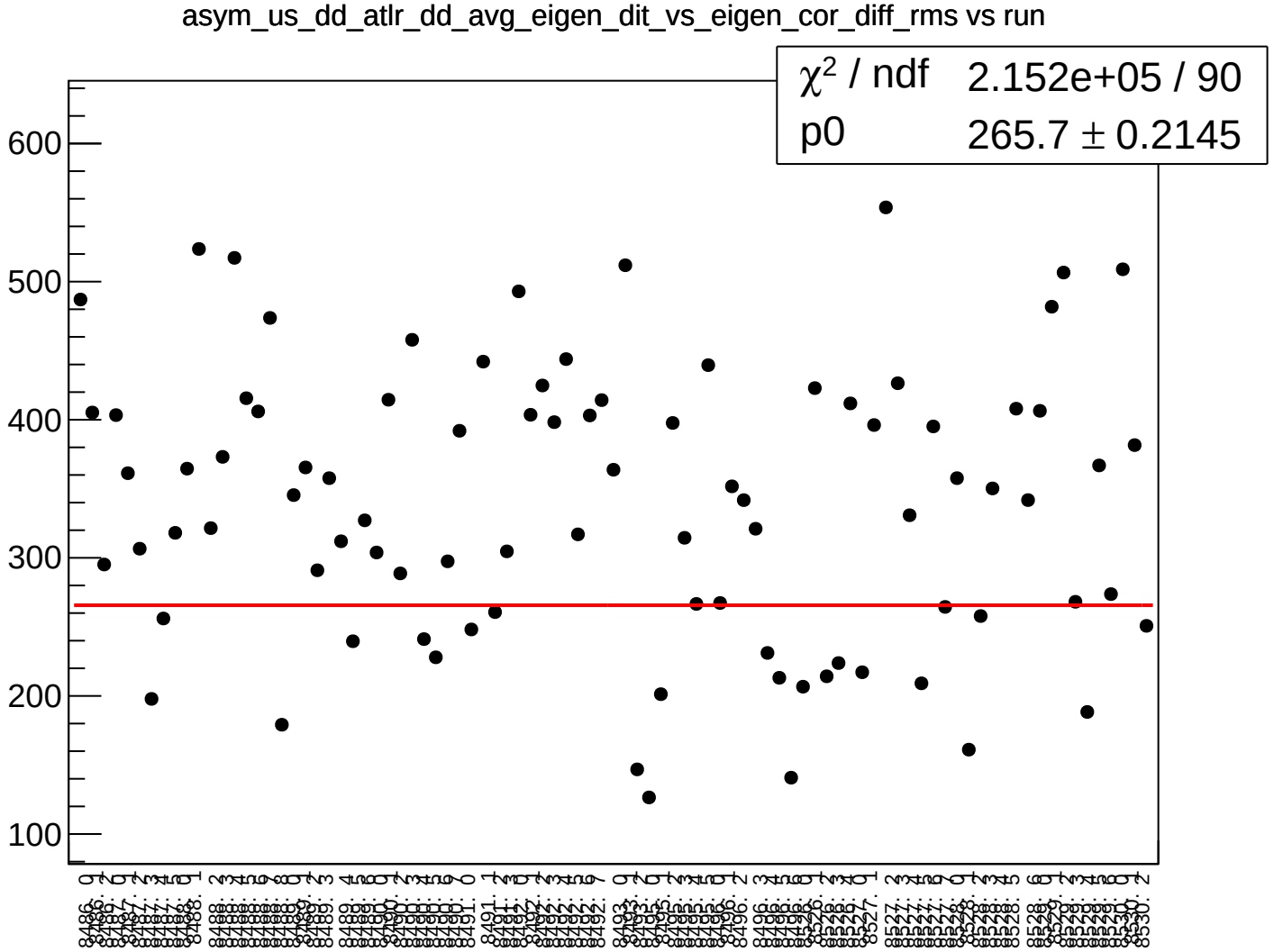

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.08 / 90
p0 0.4357 ± 0.3033
pull
Entries 91
Mean 31.13
Std Dev 45.7

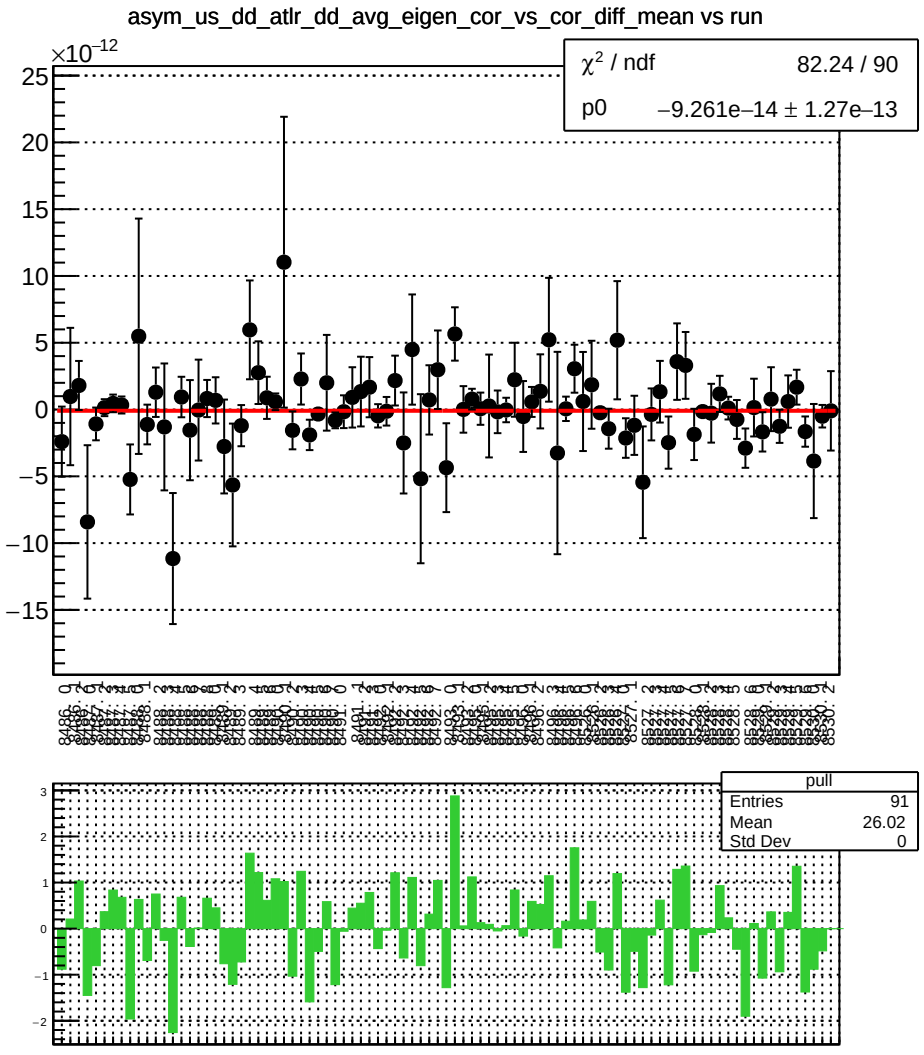

pull1D
Entries 91
Mean 0.04058
Std Dev 0.9134

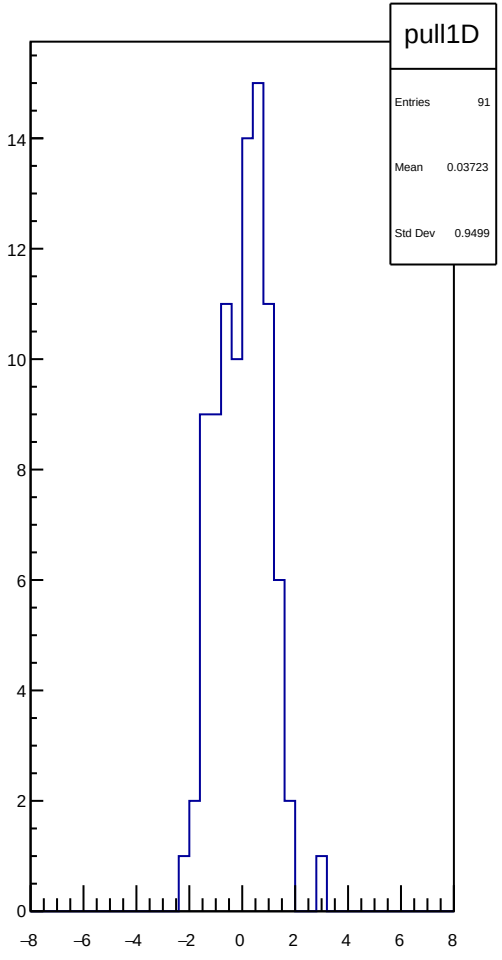

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.152e+05 / 90
p0 265.7 ± 0.2145
600
500
400
300
200
100

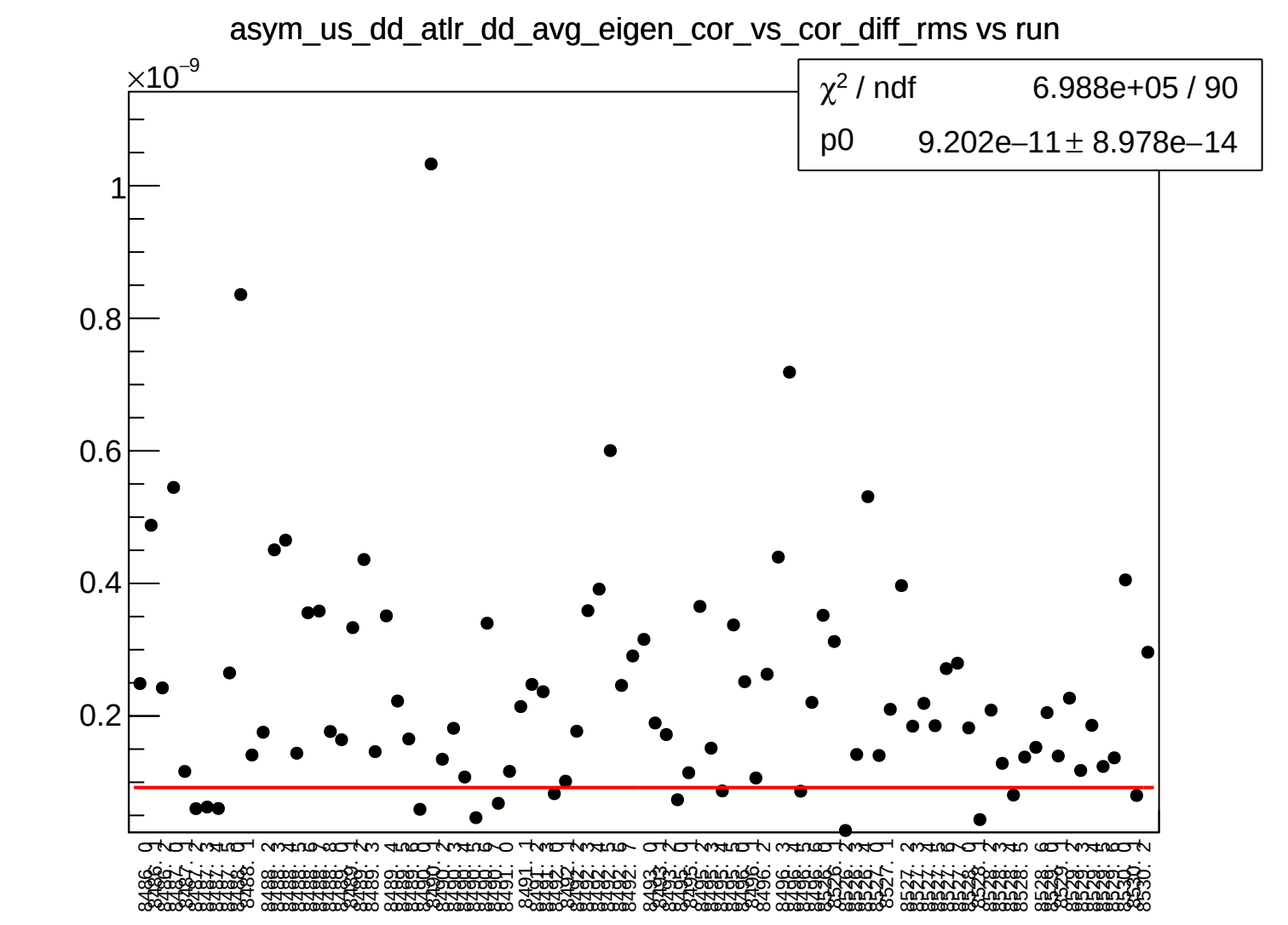

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.08 / 90
p0 0.4357 ± 0.3033
pull
Entries 91
Mean 31.13
Std Dev 45.7

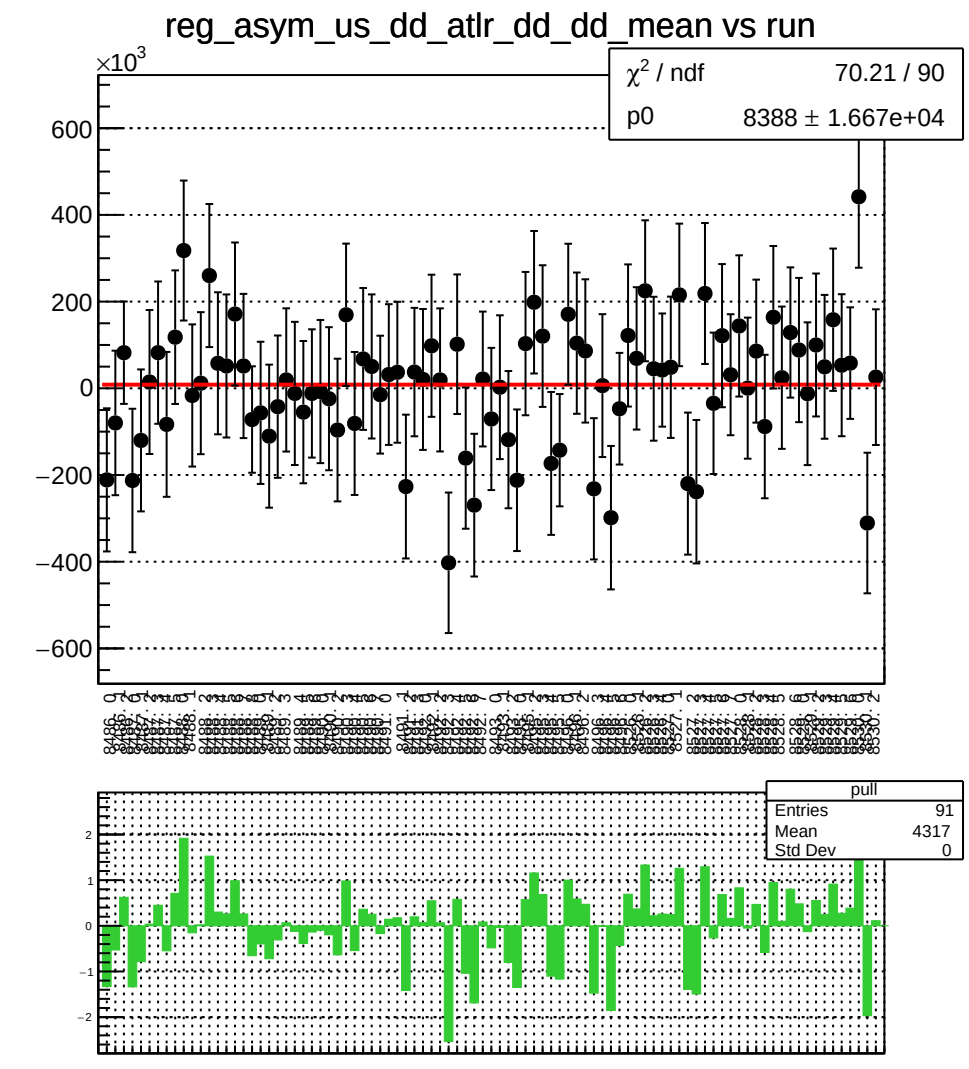

pull1D
Entries 91
Mean 0.04058
Std Dev 0.9134

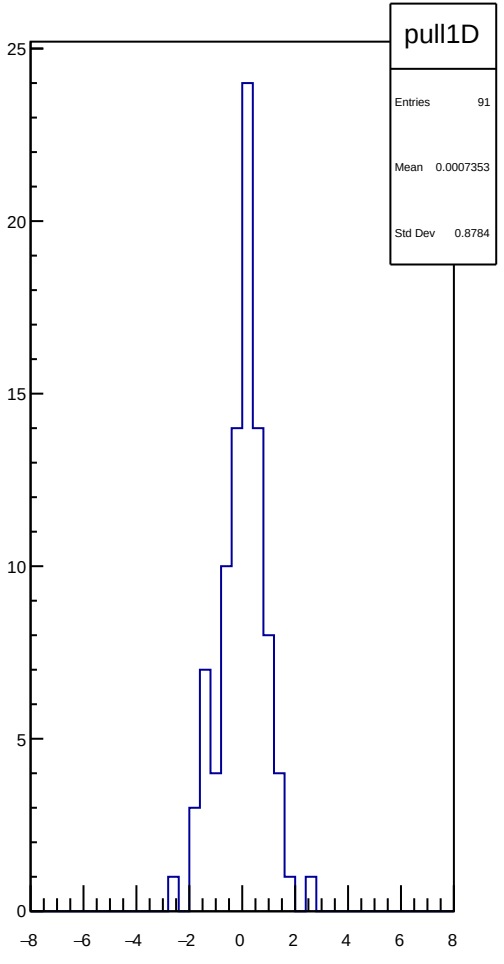

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.152e+05 / 90
p0 265.7 ± 0.2145
600
500
400
300
200
100

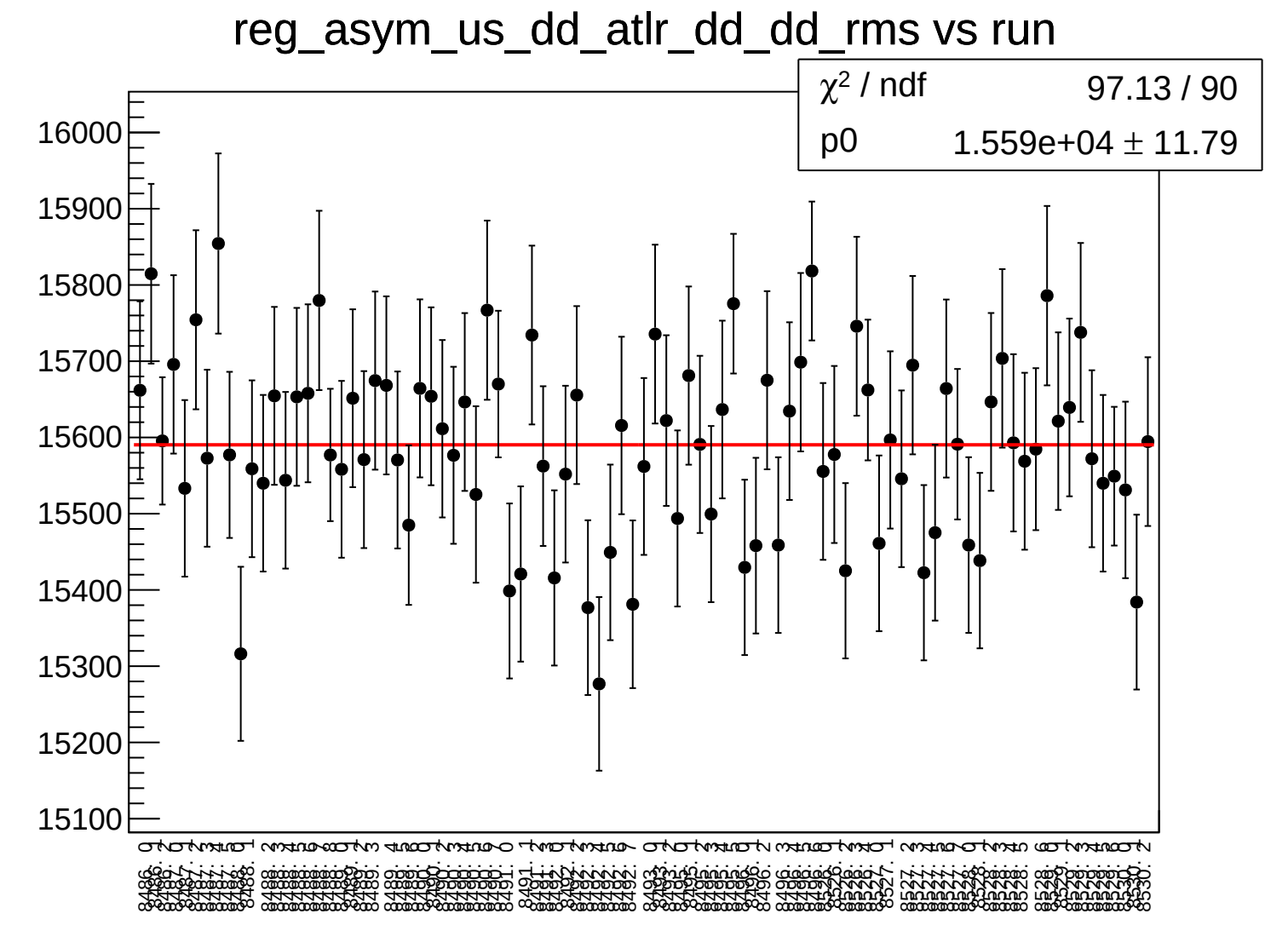

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.24 / 90
p0 −9.261e−14 ± 1.27e−13
pull
Entries 91
Mean 26.02
Std Dev 0

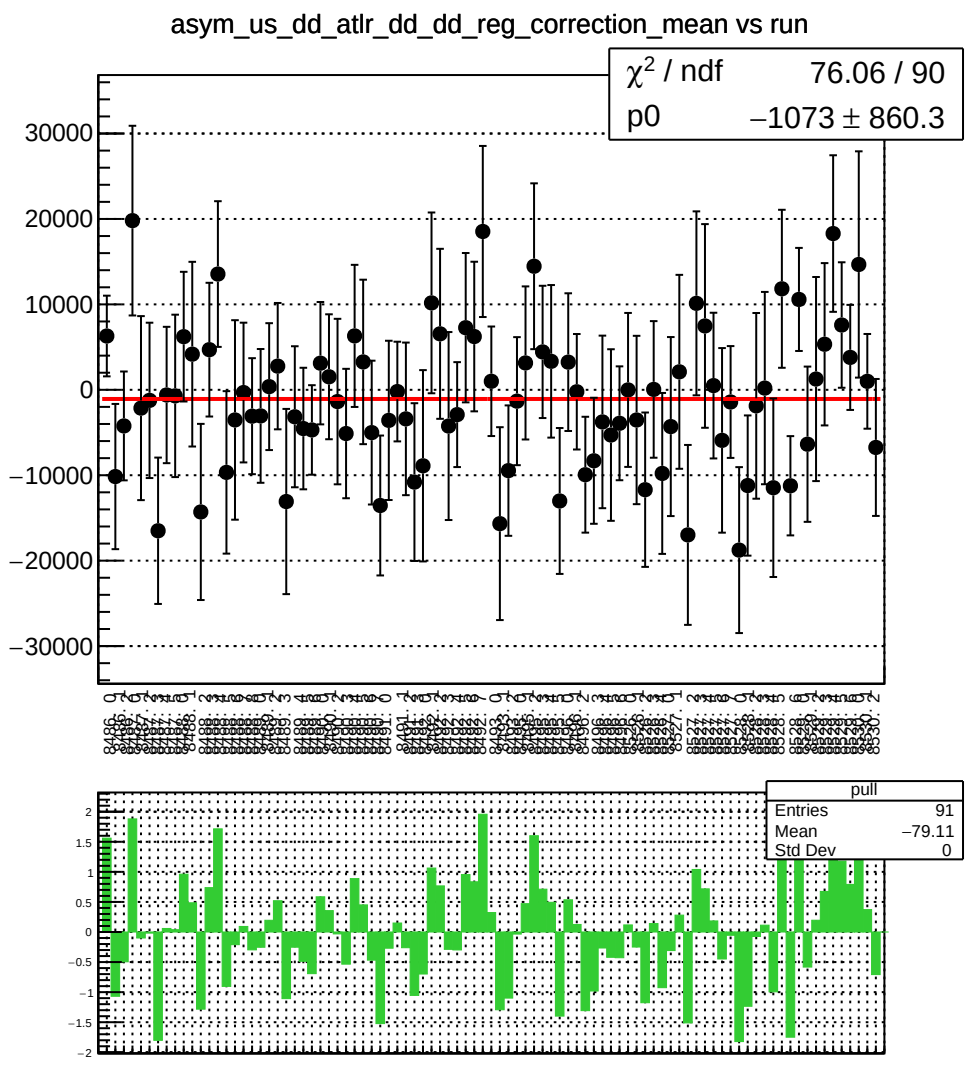

pull1D
Entries 91
Mean 0.03723
Std Dev 0.9499

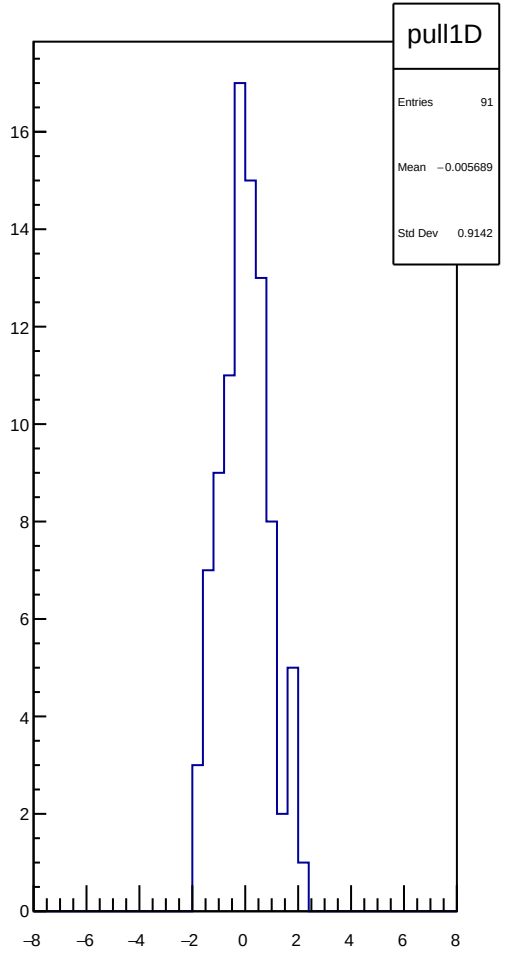

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.988e+05 / 90
p0 9.202e−11 ± 8.978e−14
1
0.8
0.6
0.4
0.2

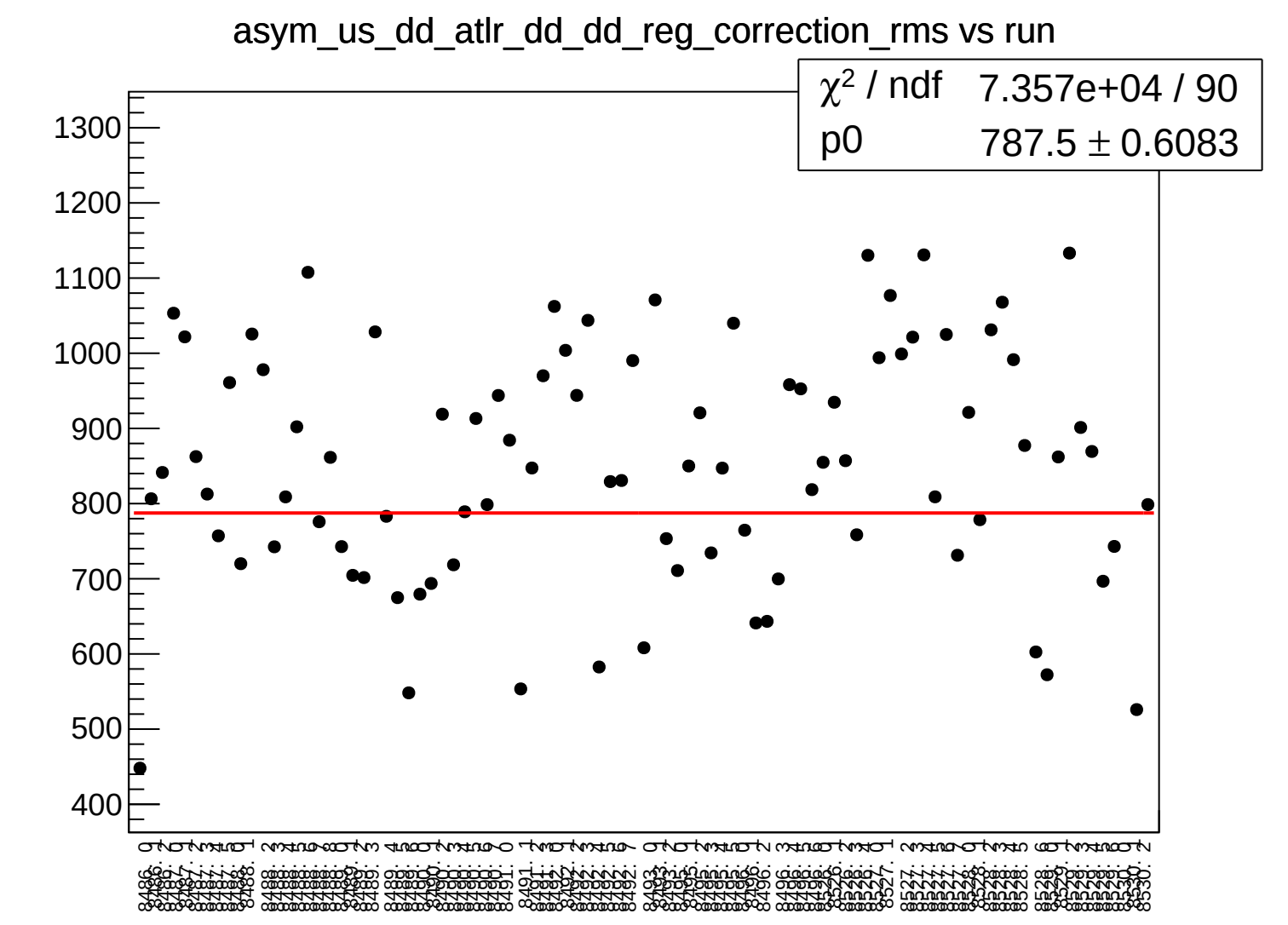

reg_asym_us_dd_atlr_dd_dd_mean vs run
×10^3
χ² / ndf 70.21 / 90
p0 8388 ± 1.667e+04
600
400
200
0
−200
−400
−600
pull
Entries 91
Mean 4317
Std Dev 0
2
1
0
−1
−2

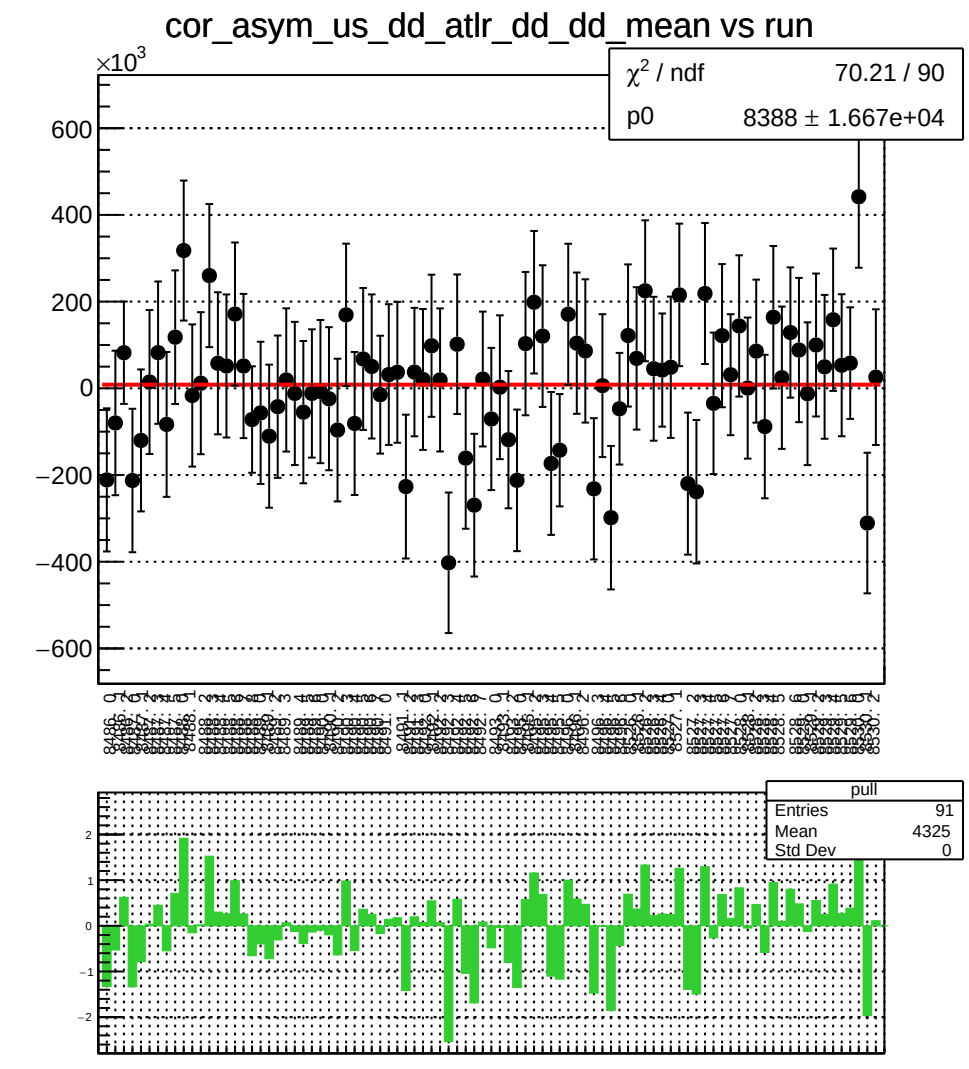

pull1D
Entries 91
Mean 0.0007353
Std Dev 0.8784
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

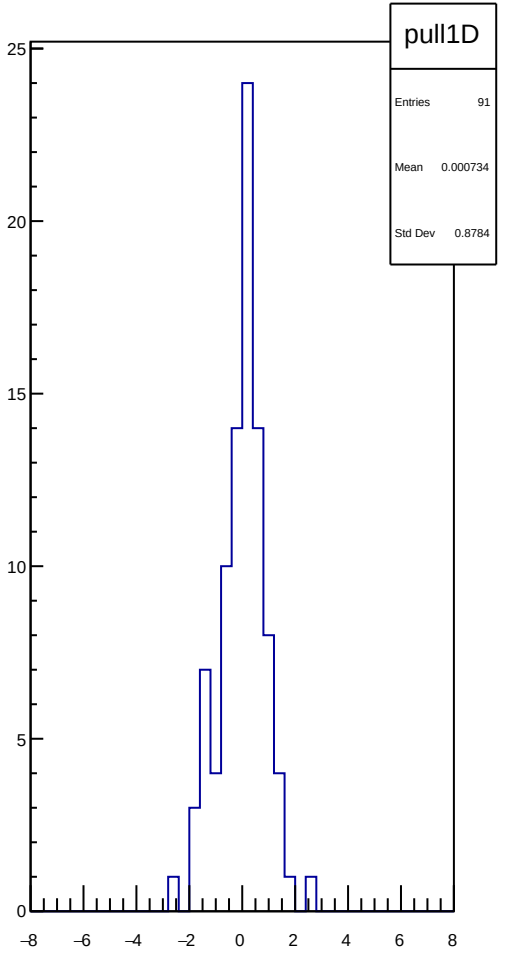

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 97.13 / 90
p0 1.559e+04 ± 11.79
16000
15900
15800
15700
15600
15500
15400
15300
15200
15100

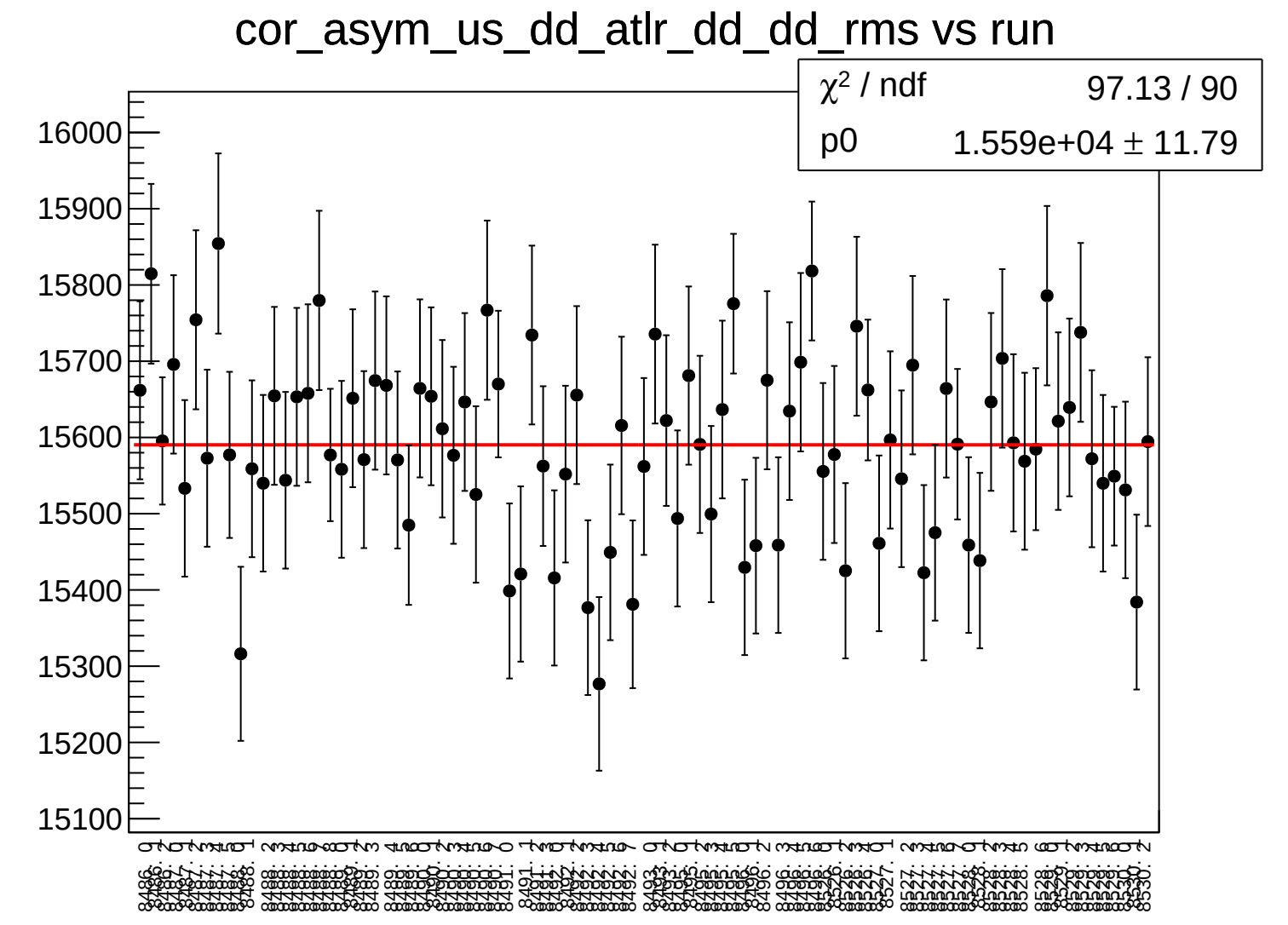

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 76.06 / 90
p0 −1073 ± 860.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −79.11
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

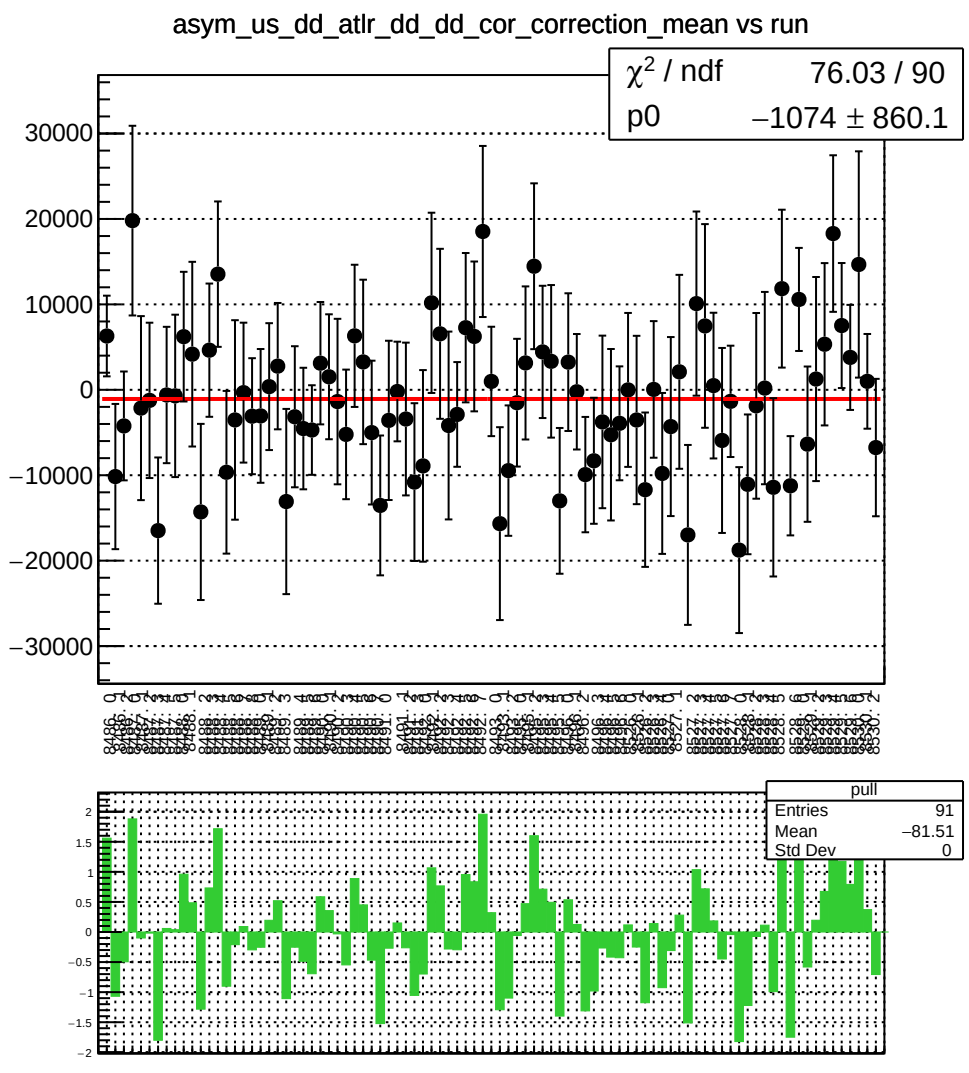

pull1D
Entries 91
Mean −0.005689
Std Dev 0.9142
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

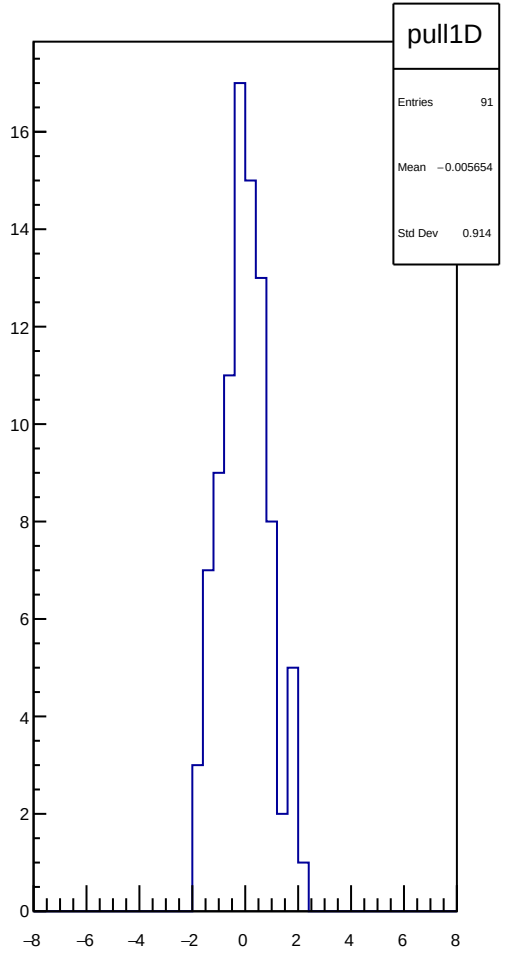

asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 7.357e+04 / 90
p0 787.5 ± 0.6083
1300
1200
1100
1000
900
800
700
600
500
400

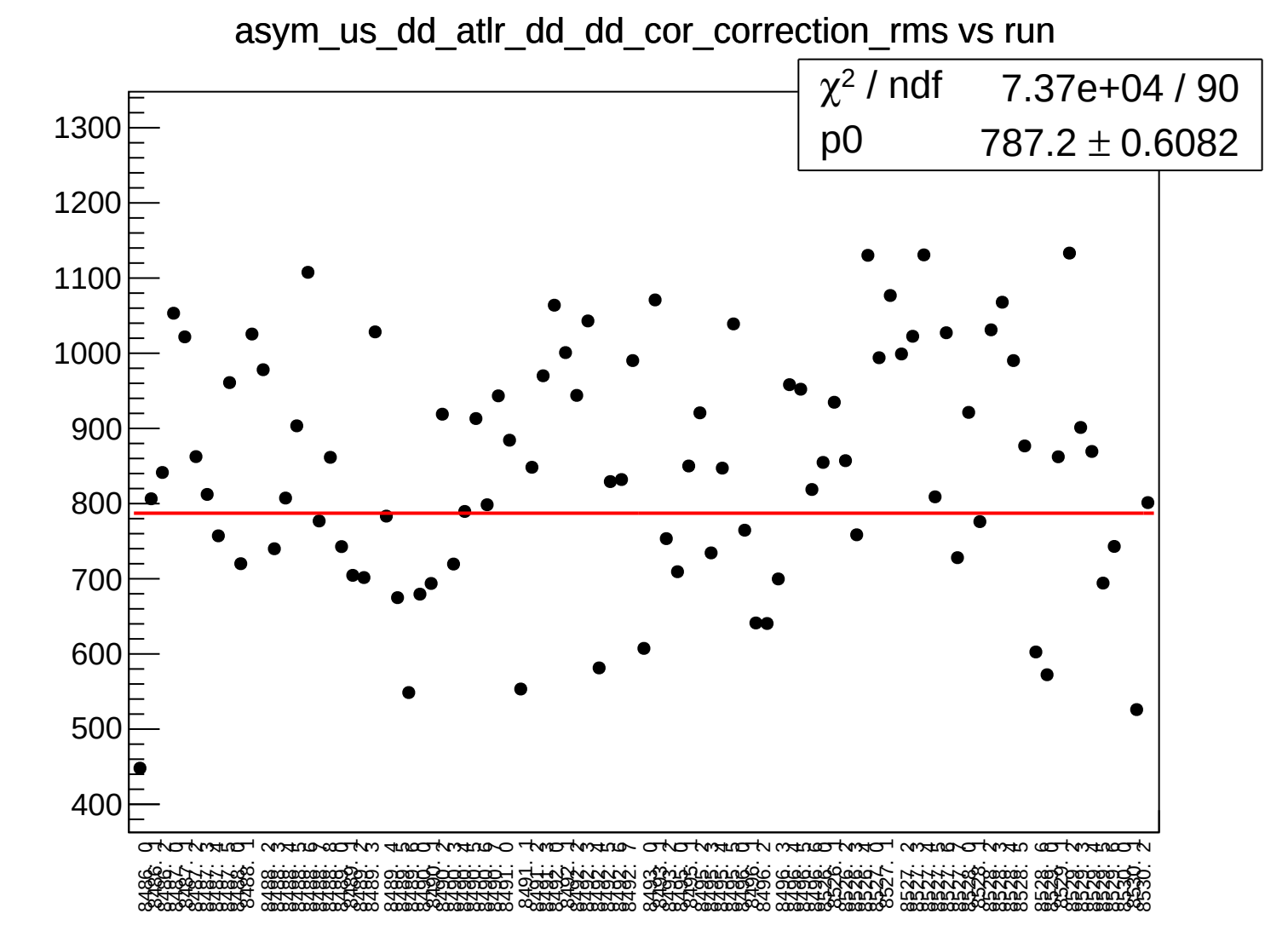

cor_asym_us_dd_atlr_dd_dd_mean vs run
×10^3
χ² / ndf 70.21 / 90
p0 8388 ± 1.667e+04
600
400
200
0
−200
−400
−600
pull
Entries 91
Mean 4325
Std Dev 0
2
1
0
−1
−2

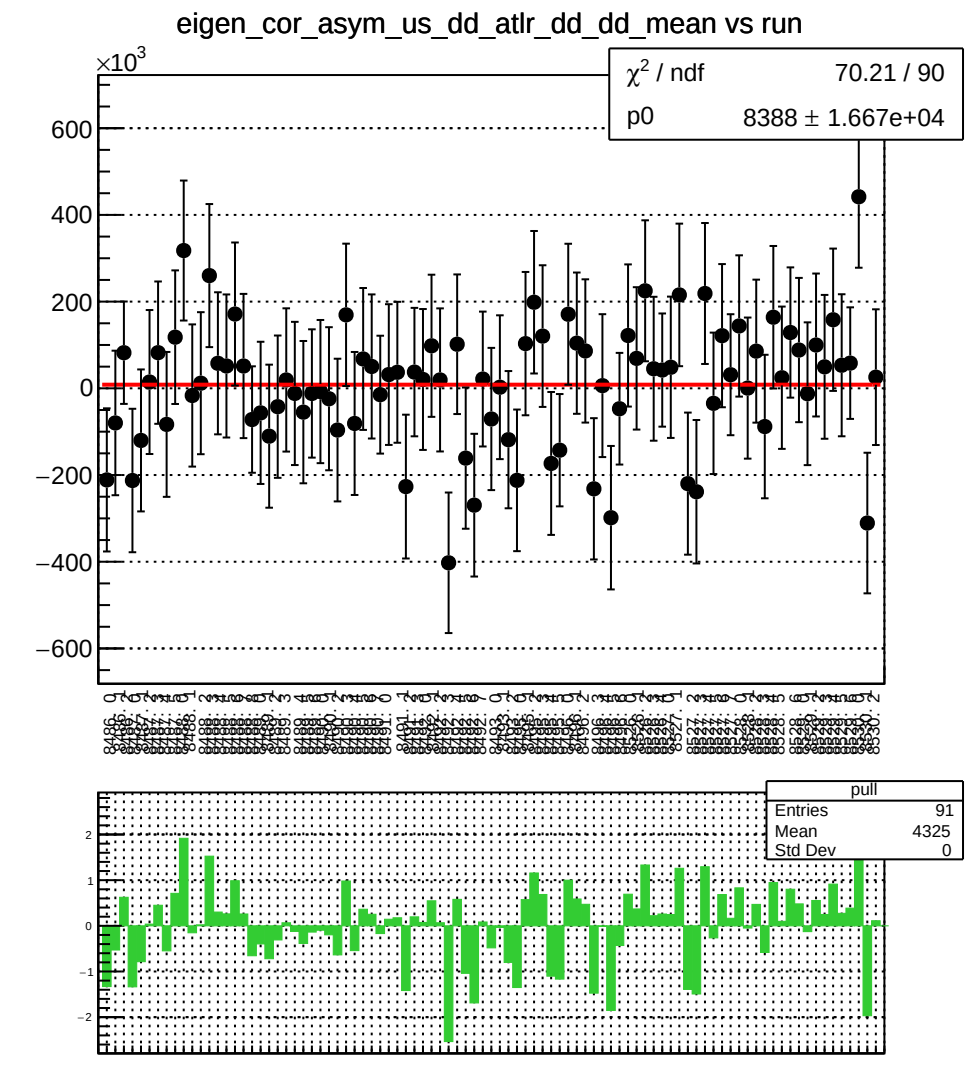

pull1D
Entries 91
Mean 0.000734
Std Dev 0.8784
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

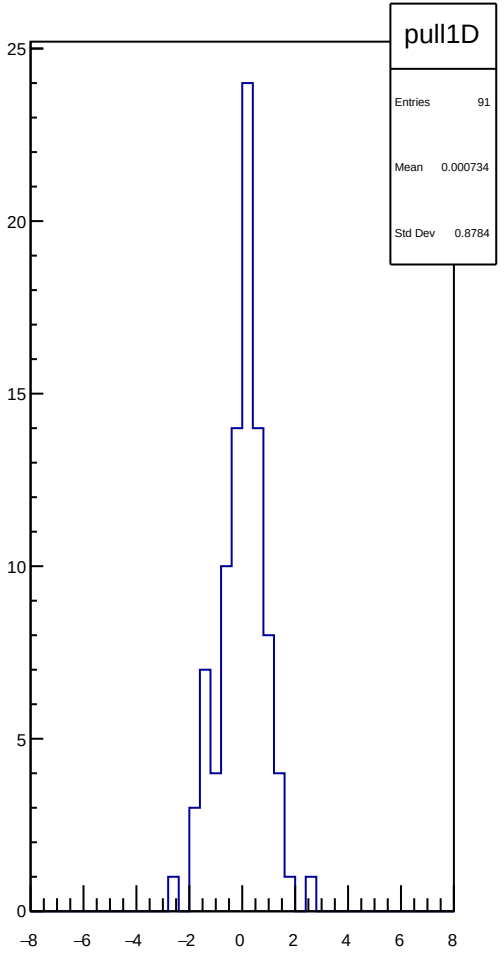

cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 97.13 / 90
p0 1.559e+04 ± 11.79
16000
15900
15800
15700
15600
15500
15400
15300
15200
15100

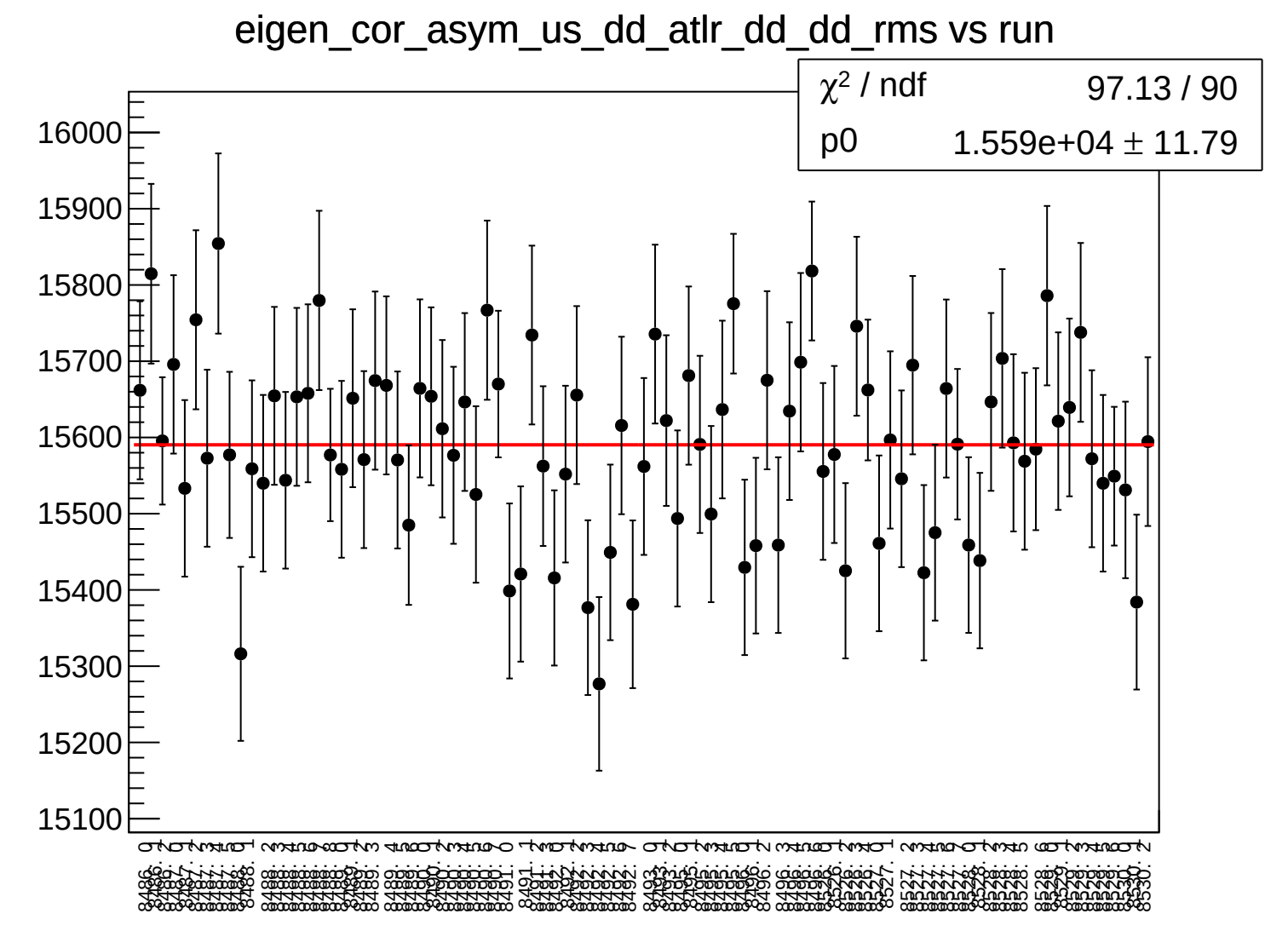

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 76.03 / 90
p0 −1074 ± 860.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −81.51
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

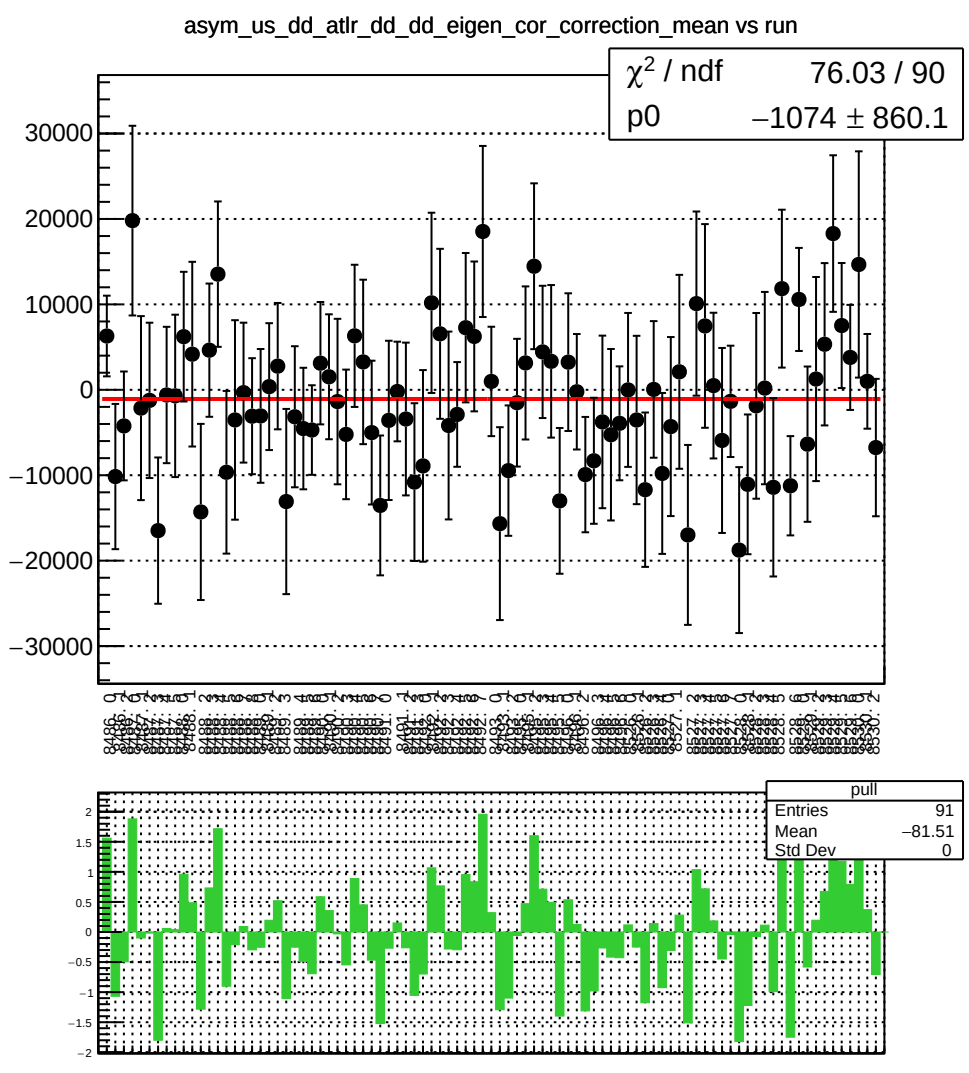

pull1D
Entries 91
Mean −0.005654
Std Dev 0.914
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

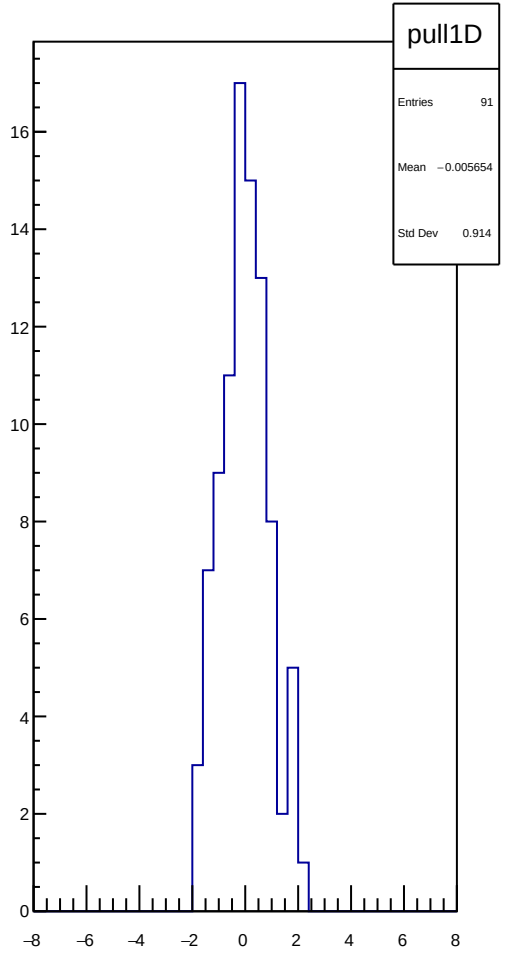

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 7.37e+04 / 90
p0 787.2 ± 0.6082
1300
1200
1100
1000
900
800
700
600
500
400

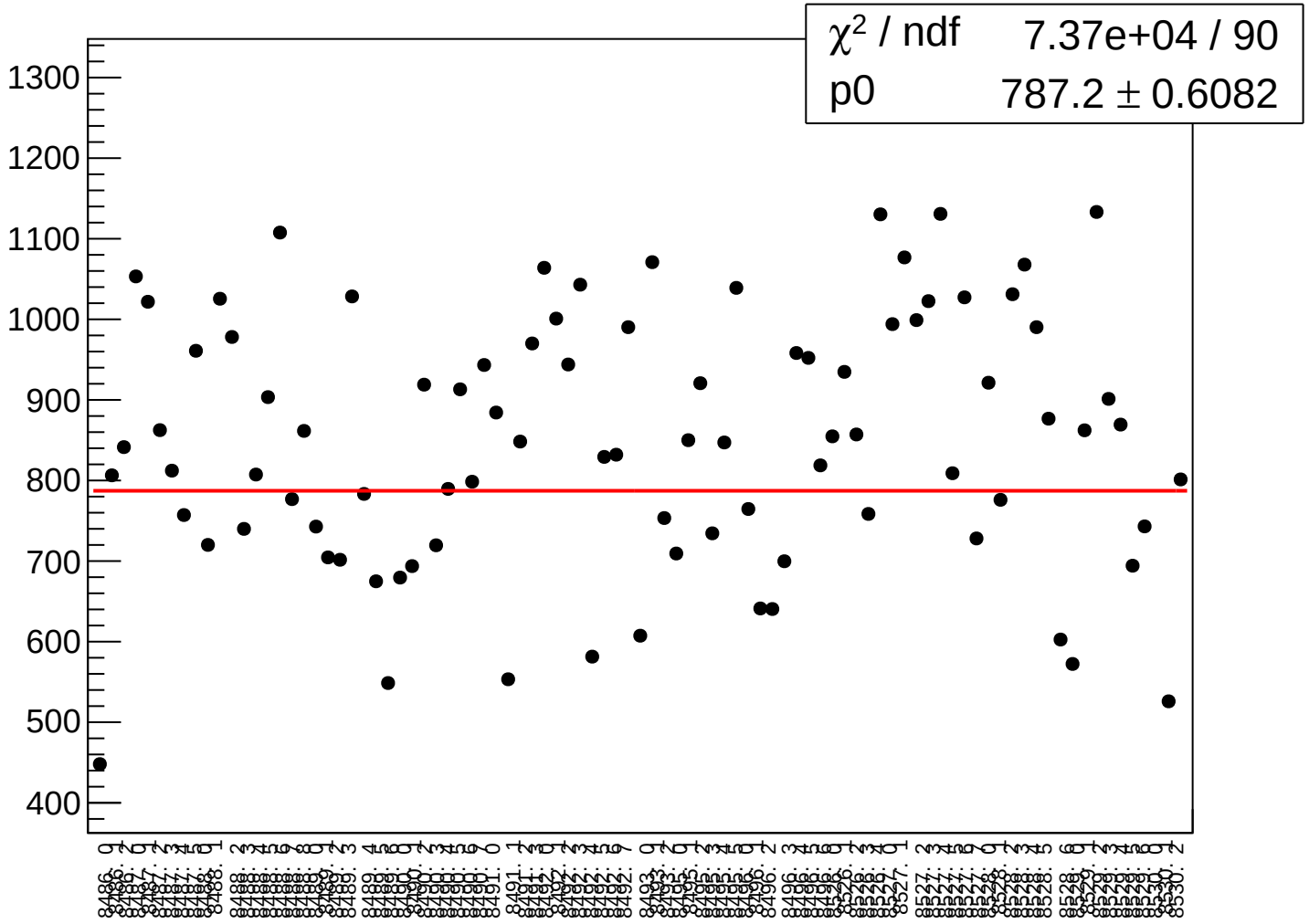

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
×10^3
χ² / ndf 70.21 / 90
p0 8388 ± 1.667e+04
600
400
200
0
−200
−400
−600
pull
Entries 91
Mean 4325
Std Dev 0
2
1
0
−1
−2

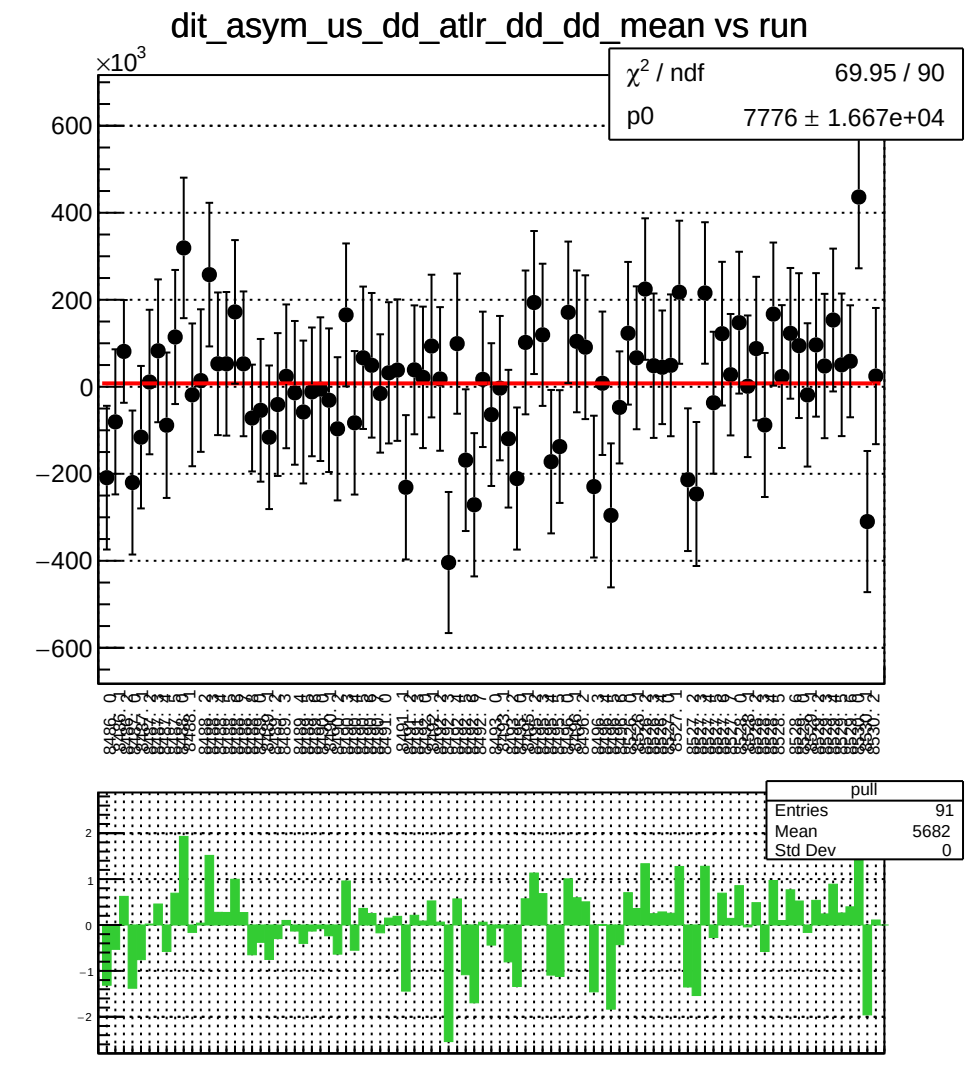

pull1D
Entries 91
Mean 0.000734
Std Dev 0.8784
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

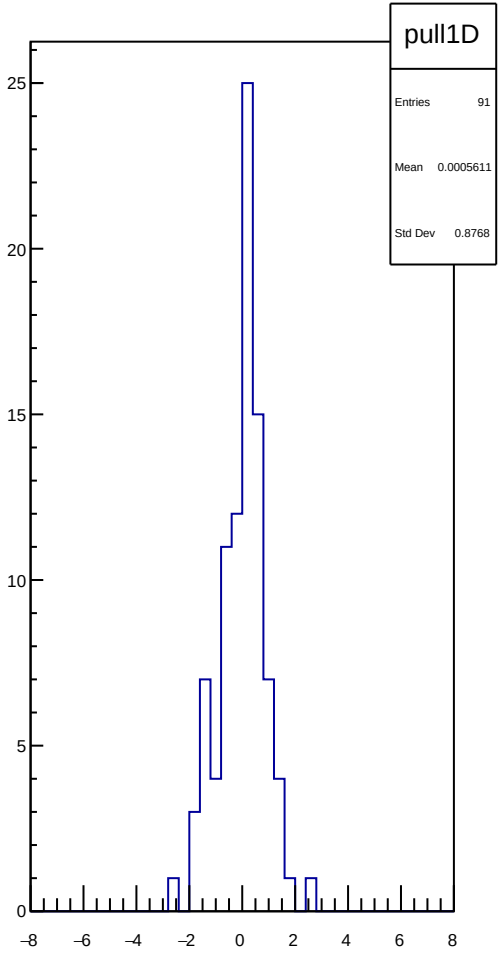

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 97.13 / 90
p0 1.559e+04 ± 11.79
16000
15900
15800
15700
15600
15500
15400
15300
15200
15100

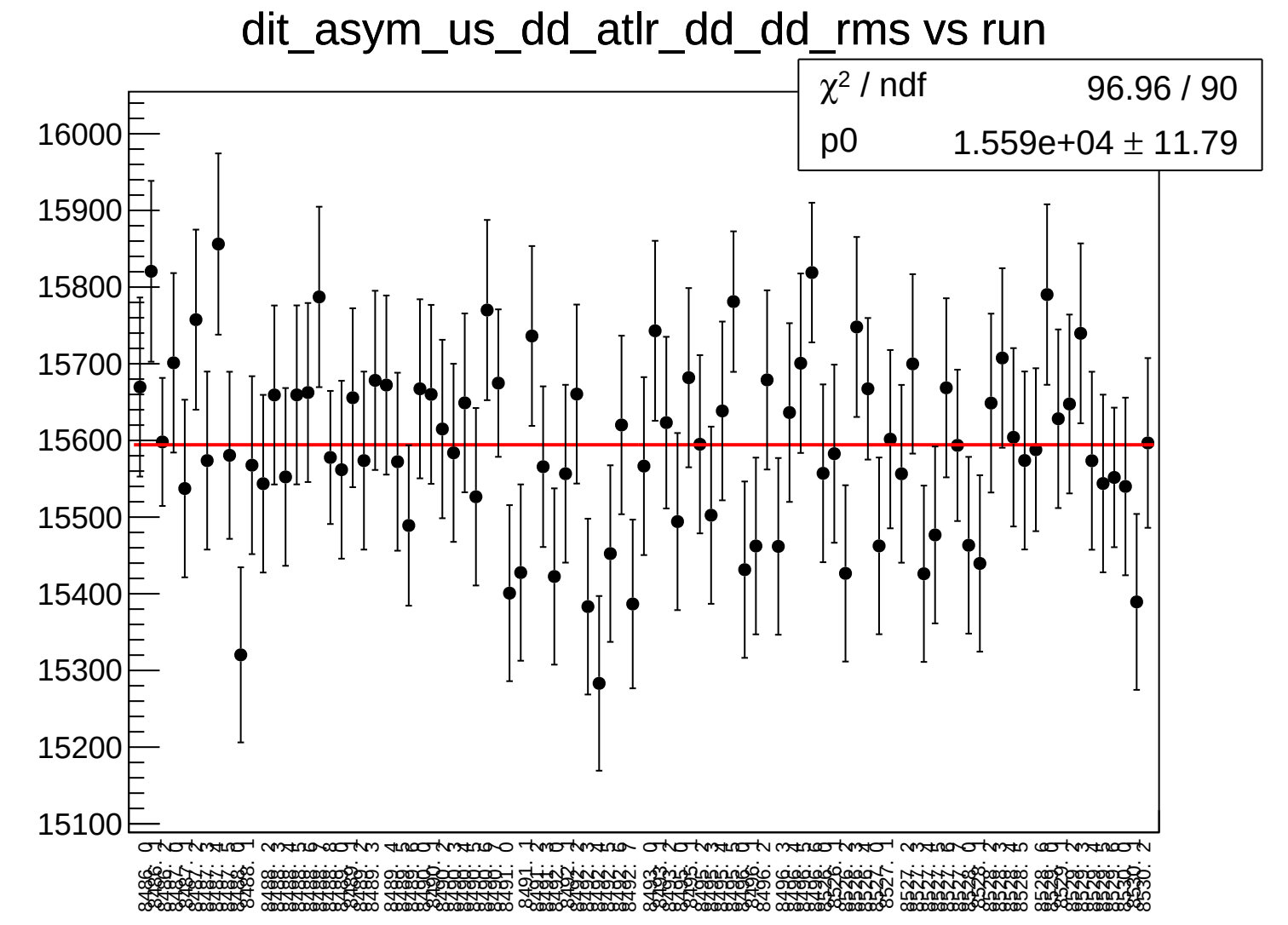

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 76.03 / 90
p0 −1074 ± 860.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −81.51
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

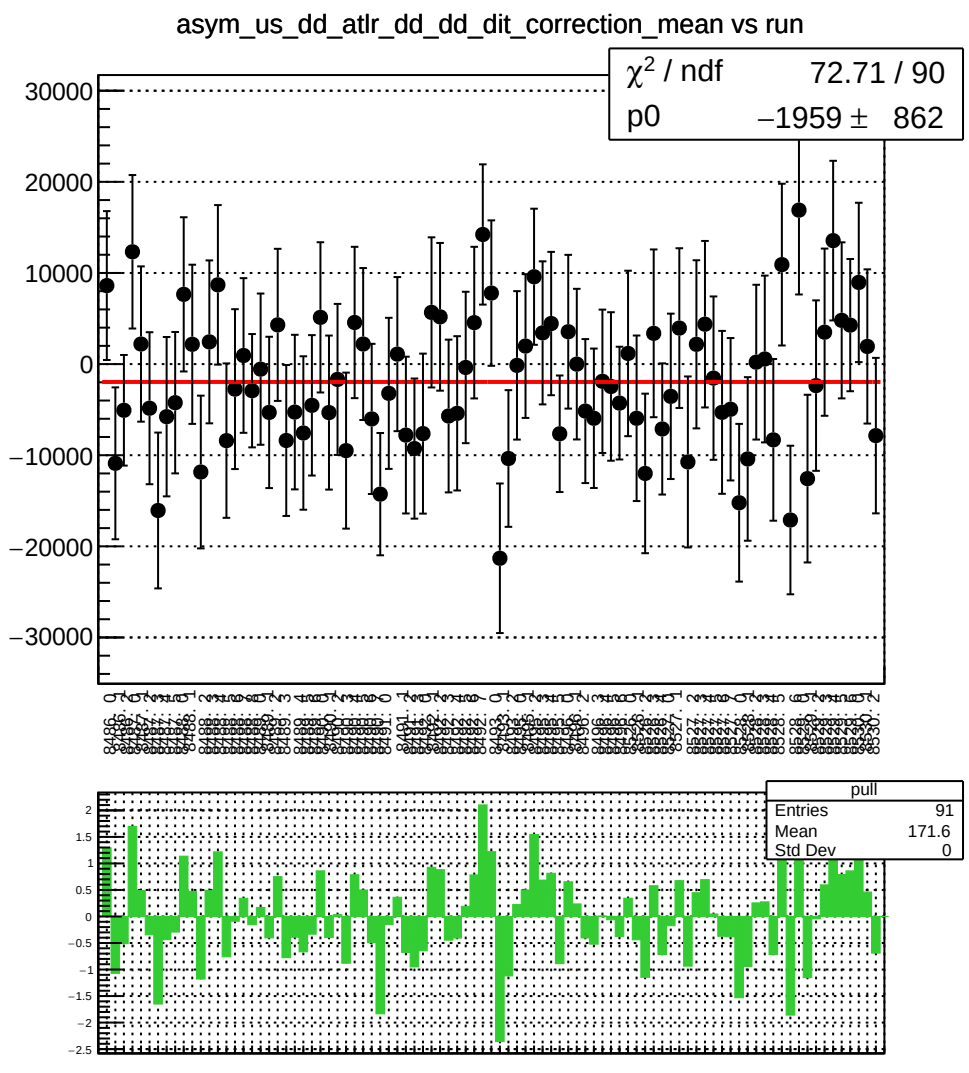

pull1D
Entries 91
Mean −0.005654
Std Dev 0.914
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

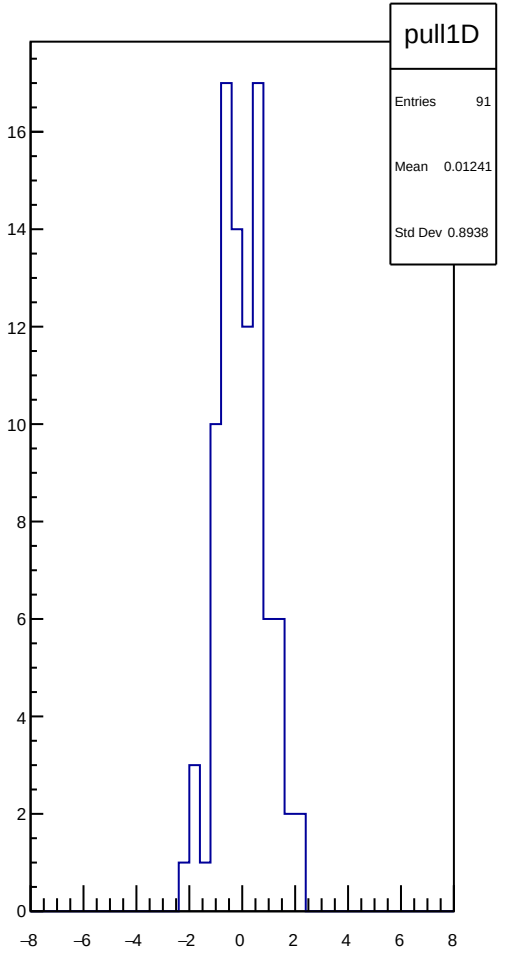

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 7.37e+04 / 90
p0 787.2 ± 0.6082
1300
1200
1100
1000
900
800
700
600
500
400

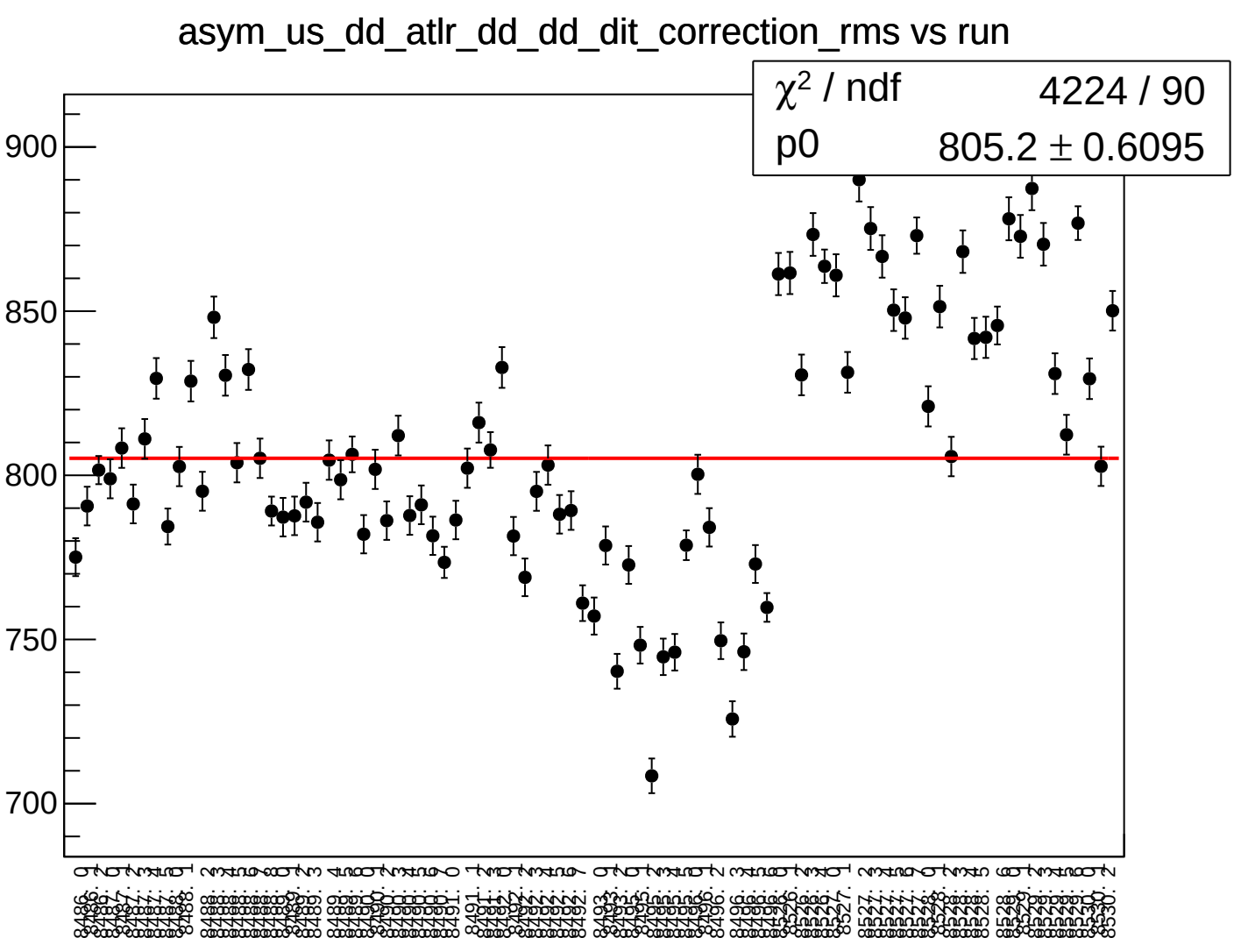

dit_asym_us_dd_atlr_dd_dd_mean vs run
×10^3
χ² / ndf 69.95 / 90
p0 7776 ± 1.667e+04
600
400
200
0
−200
−400
−600
pull
Entries 91
Mean 5682
Std Dev 0
2
1
0
−1
−2

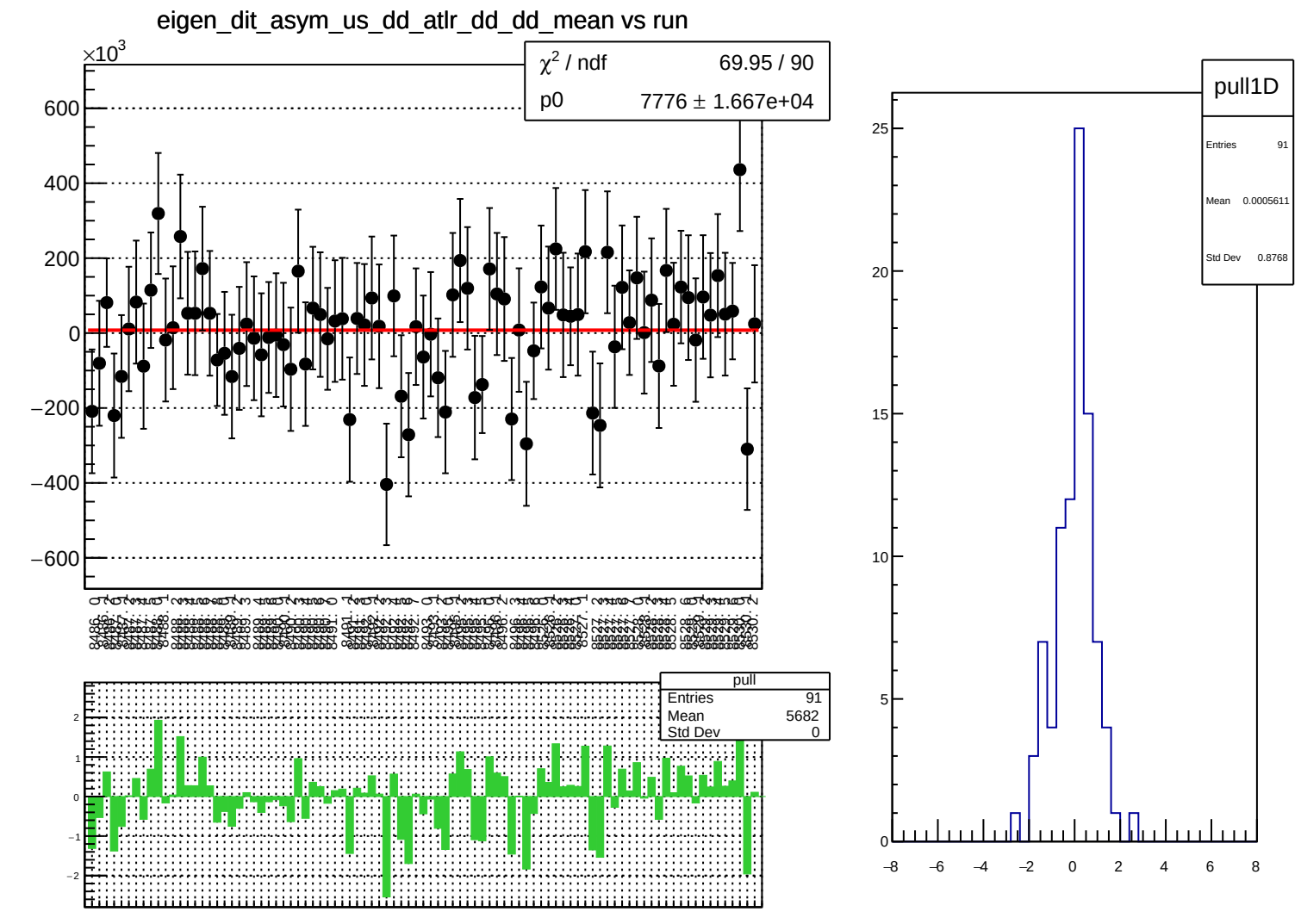

pull1D
Entries 91
Mean 0.0005611
Std Dev 0.8768
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

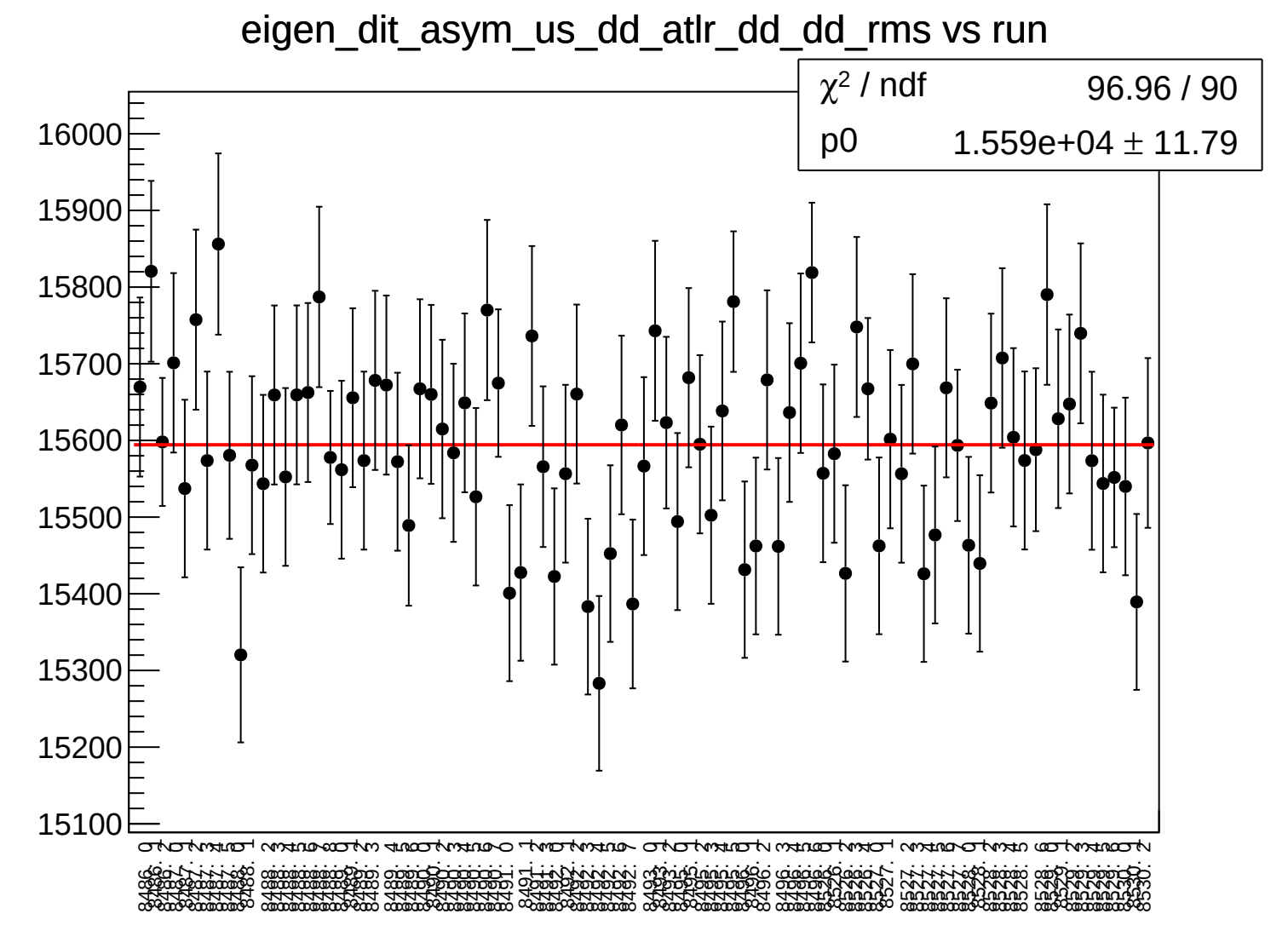

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 96.96 / 90
p0 1.559e+04 ± 11.79
16000
15900
15800
15700
15600
15500
15400
15300
15200
15100

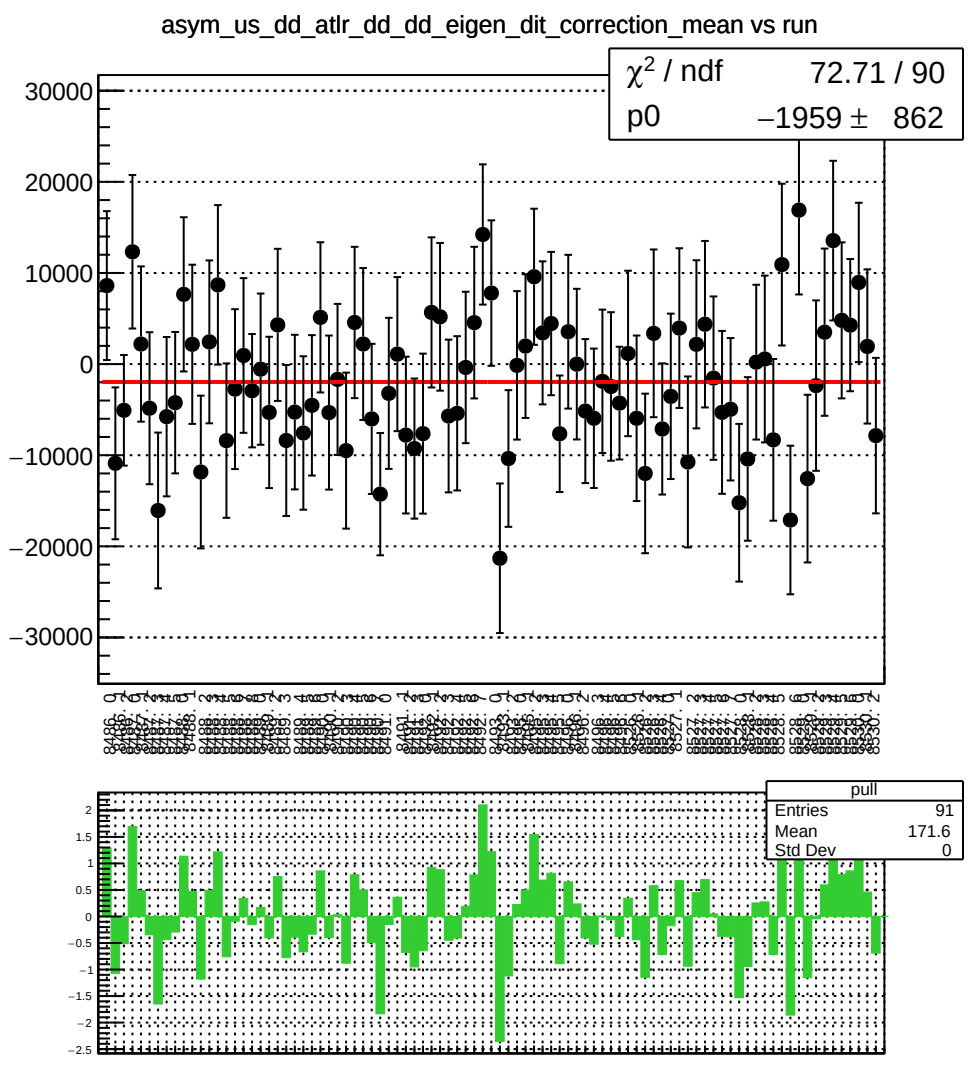

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 72.71 / 90
p0 −1959 ± 862
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 171.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

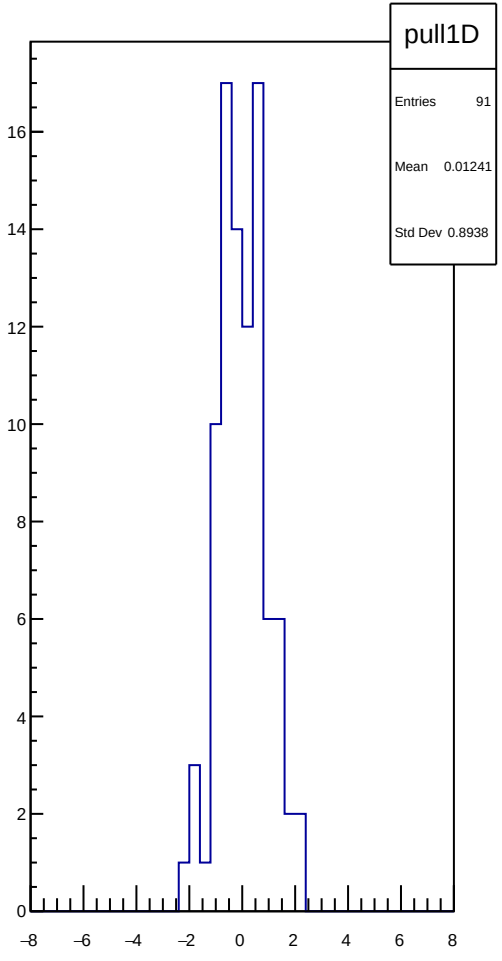

pull1D
Entries 91
Mean 0.01241
Std Dev 0.8938
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

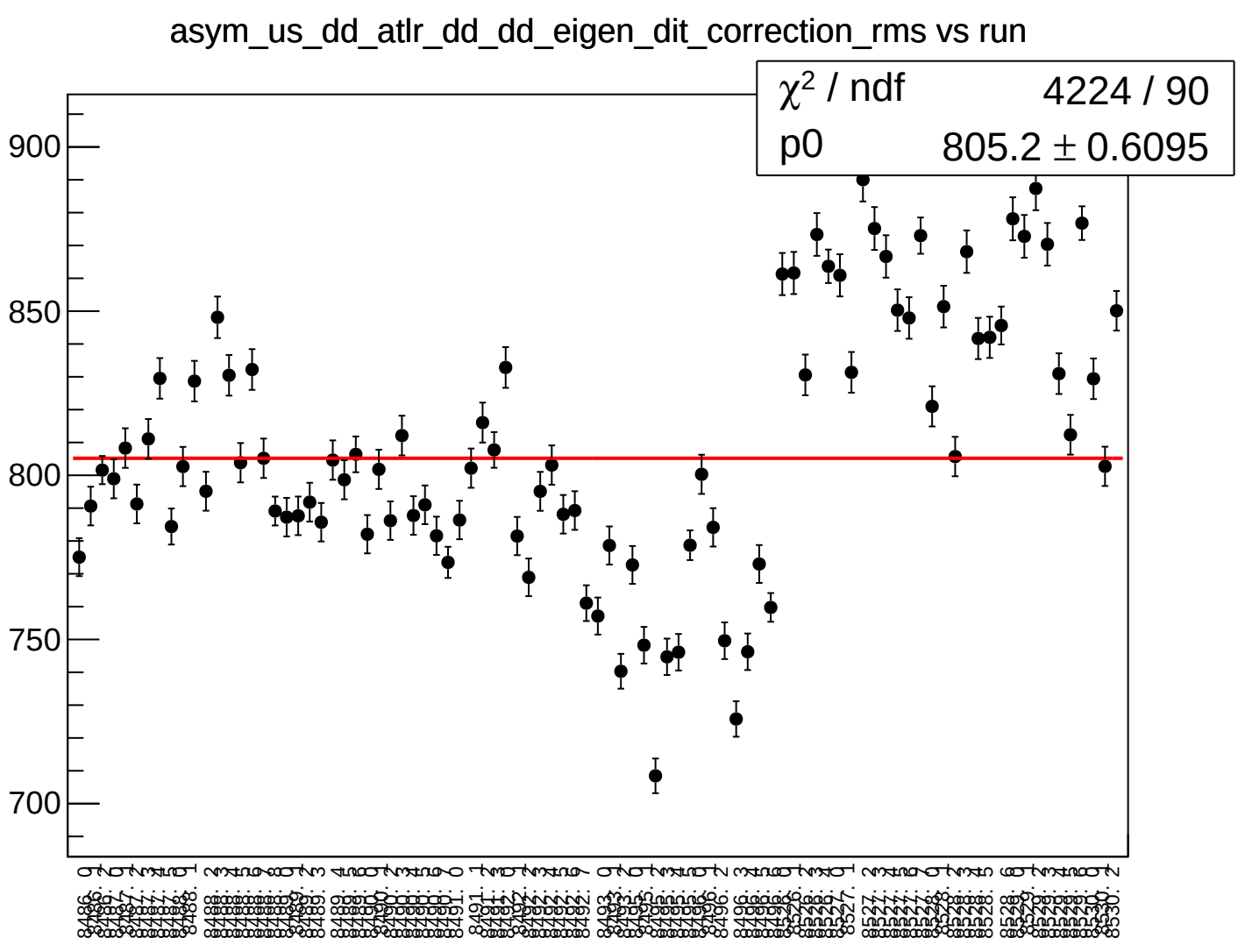

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 4224 / 90
p0 805.2 ± 0.6095
900
850
800
750
700

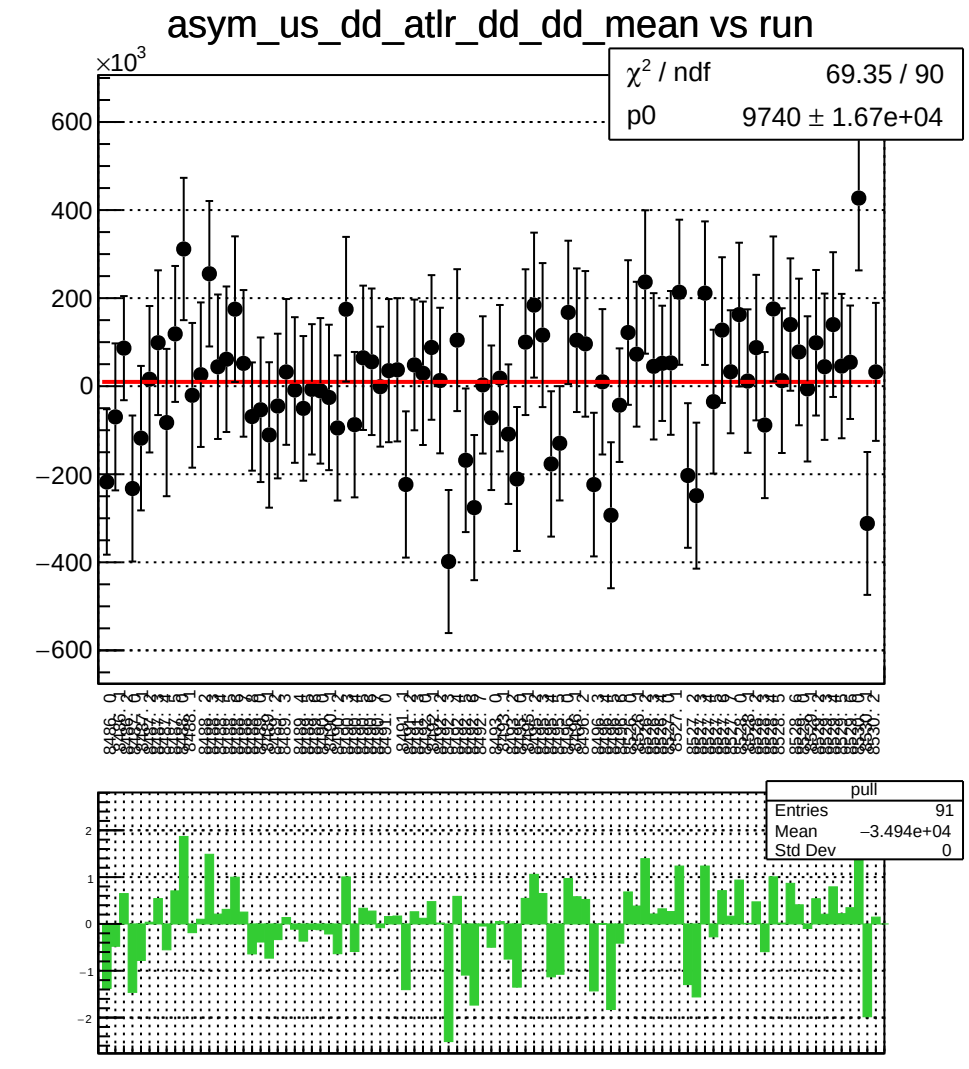

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
×10^3
χ² / ndf 69.95 / 90
p0 7776 ± 1.667e+04
pull
Entries 91
Mean 5682
Std Dev 0
pull1D
Entries 91
Mean 0.0005611
Std Dev 0.8768

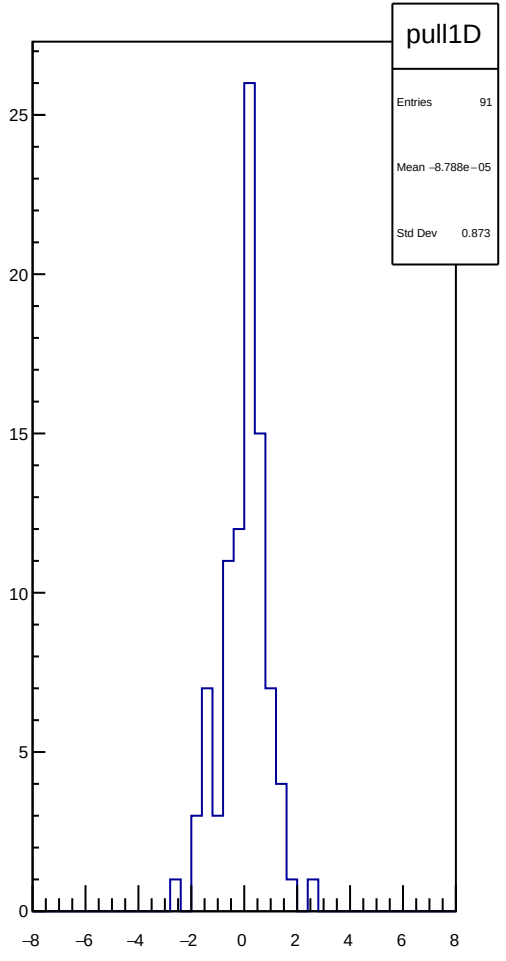

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 96.96 / 90
p0 1.559e+04 ± 11.79
16000
15900
15800
15700
15600
15500
15400
15300
15200
15100

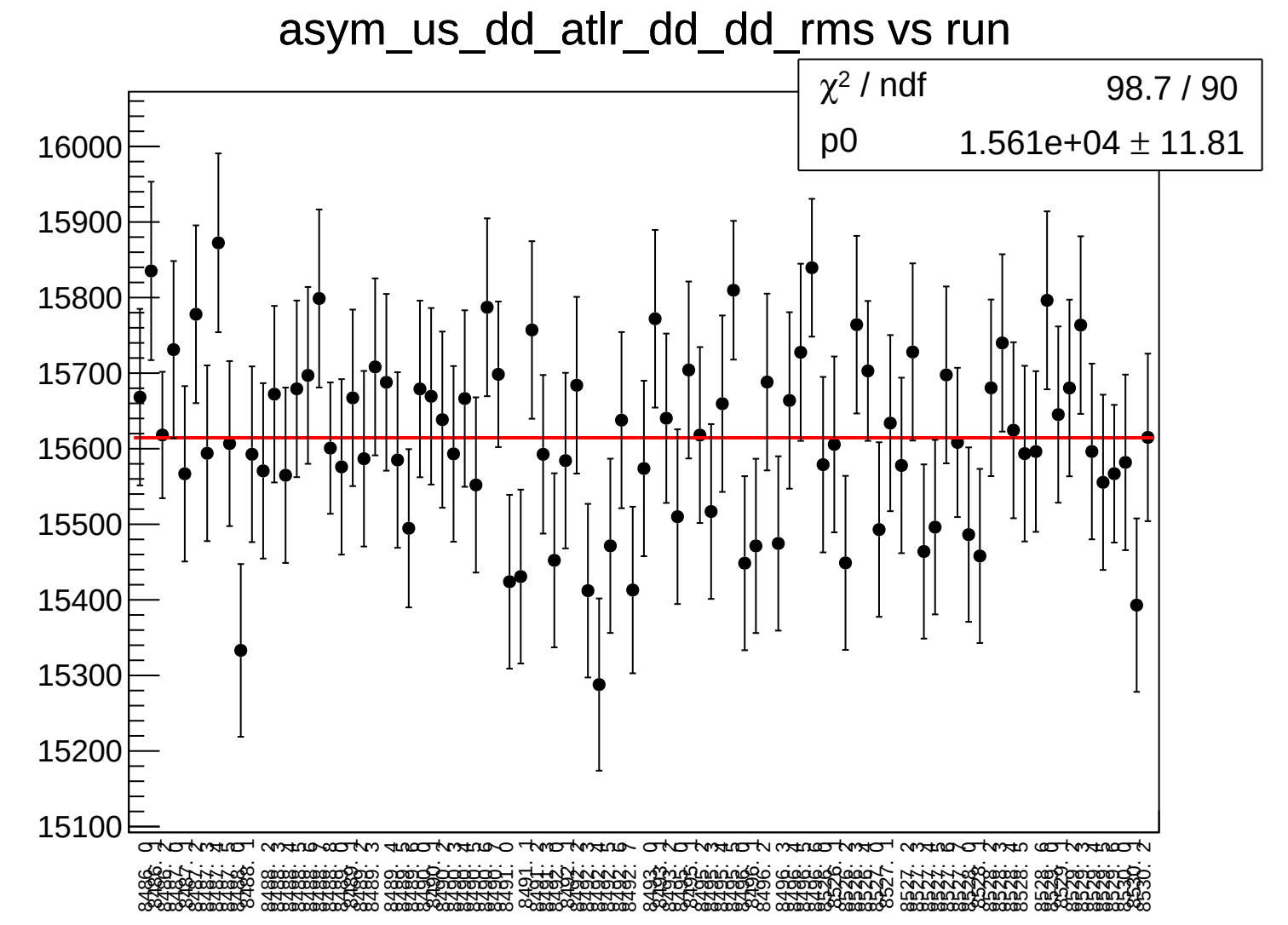

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 72.71 / 90
p0 −1959 ± 862
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 171.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

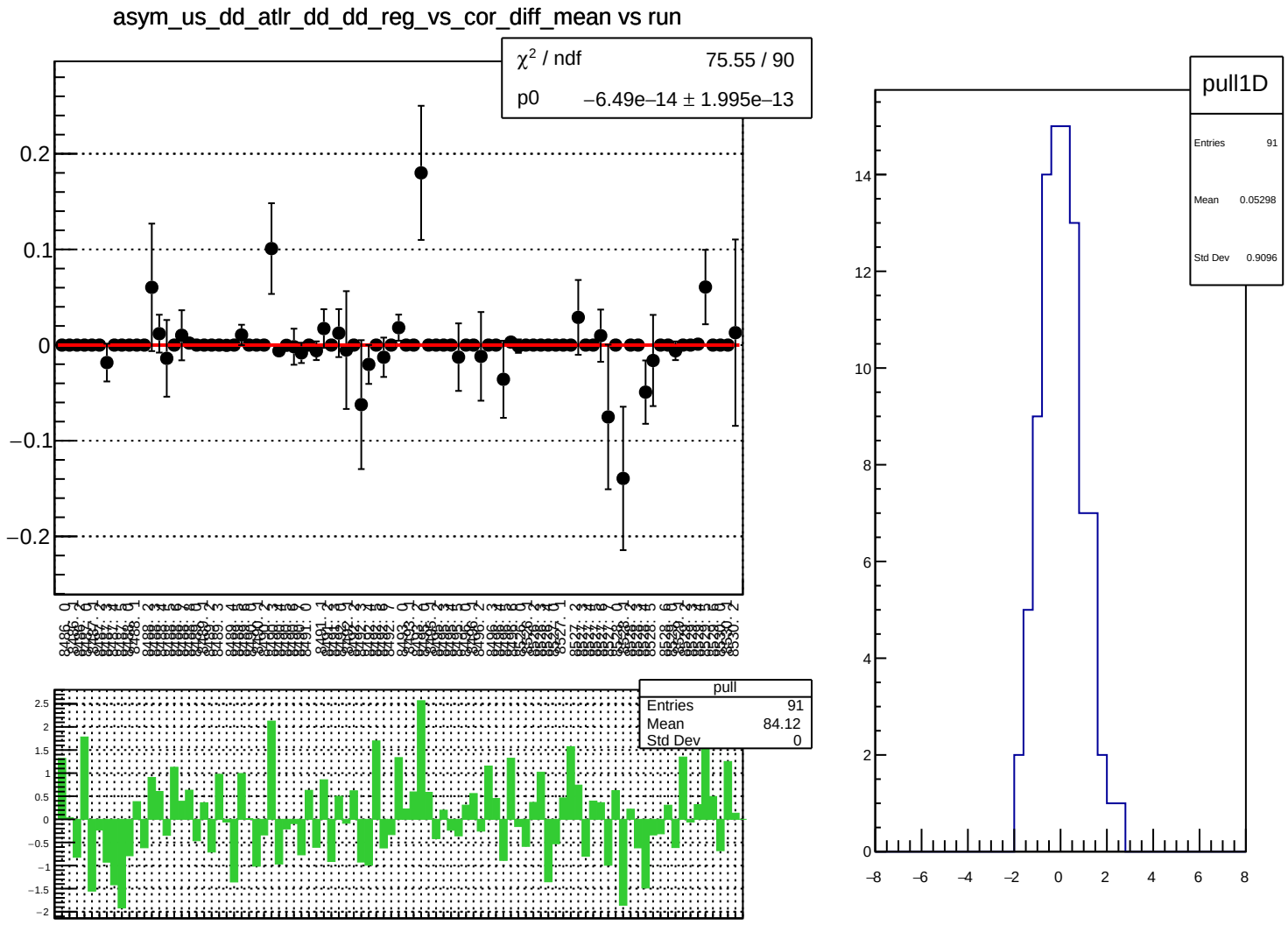

pull1D
Entries 91
Mean 0.01241
Std Dev 0.8938
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

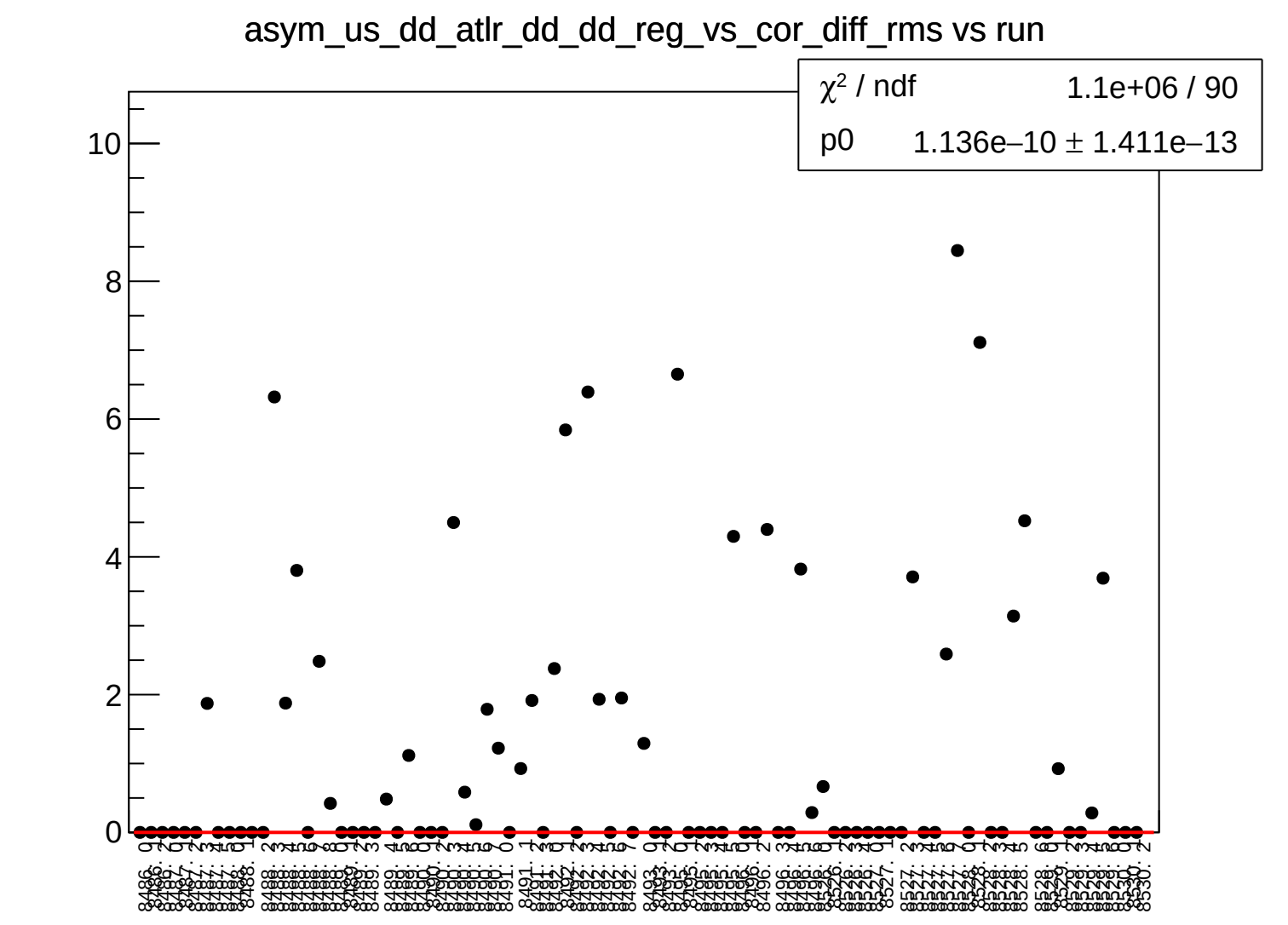

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 4224 / 90
p0 805.2 ± 0.6095
900
850
800
750
700

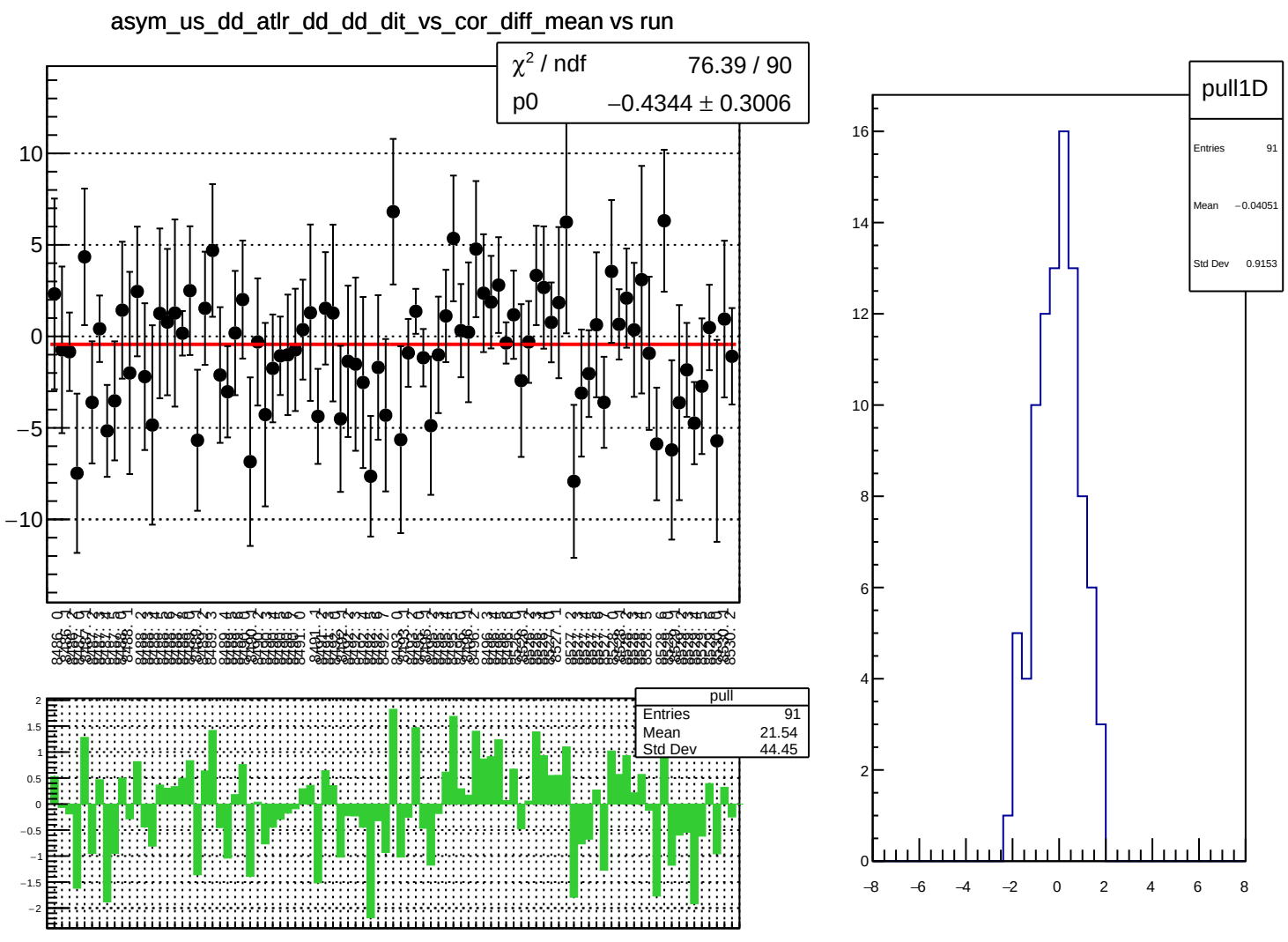

asym_us_dd_atlr_dd_dd_mean vs run
×10^3
χ² / ndf 69.35 / 90
p0 9740 ± 1.67e+04
600
400
200
0
−200
−400
−600
pull
Entries 91
Mean −3.494e+04
Std Dev 0
2
1
0
−1
−2

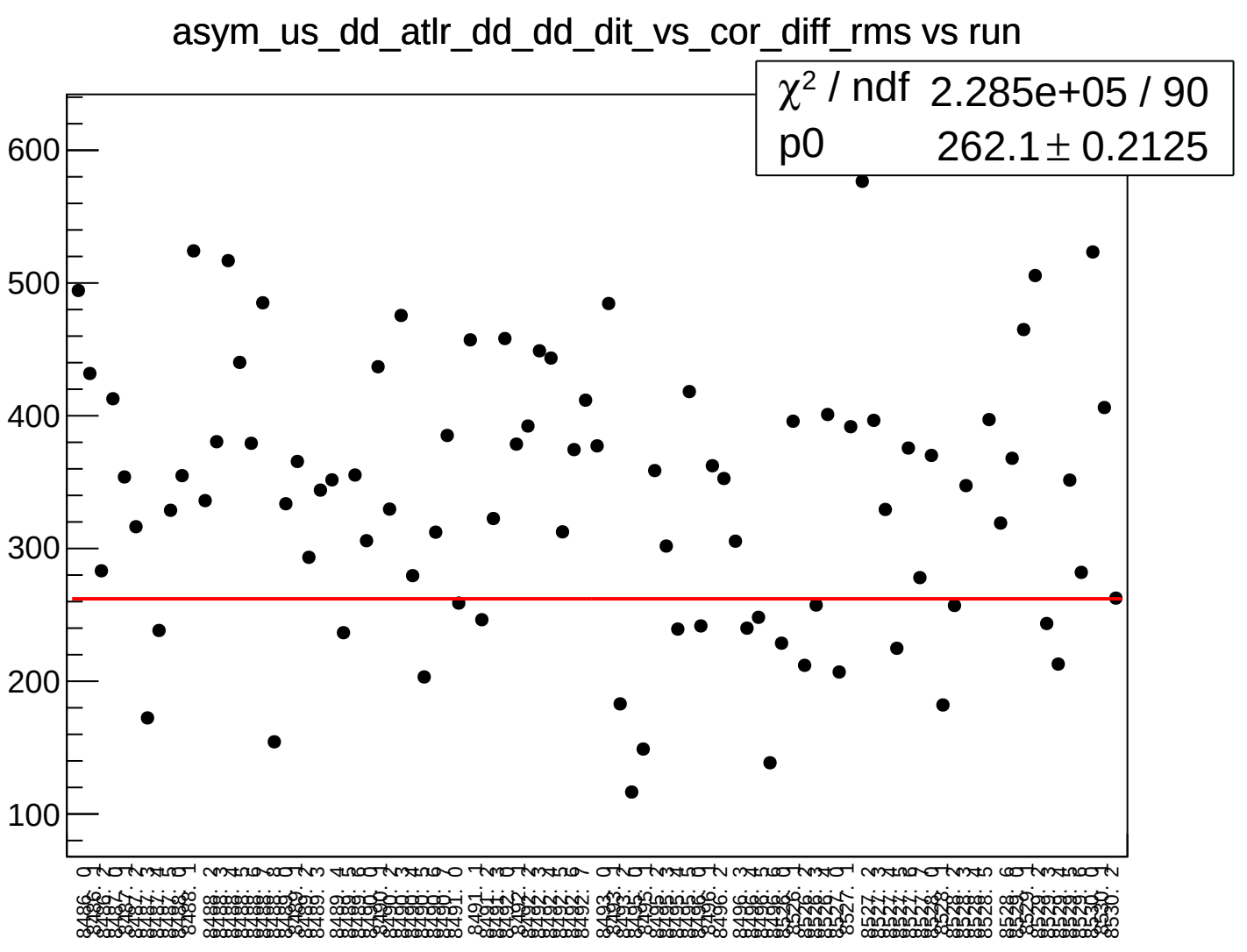

pull1D
Entries 91
Mean −8.788e−05
Std Dev 0.873
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

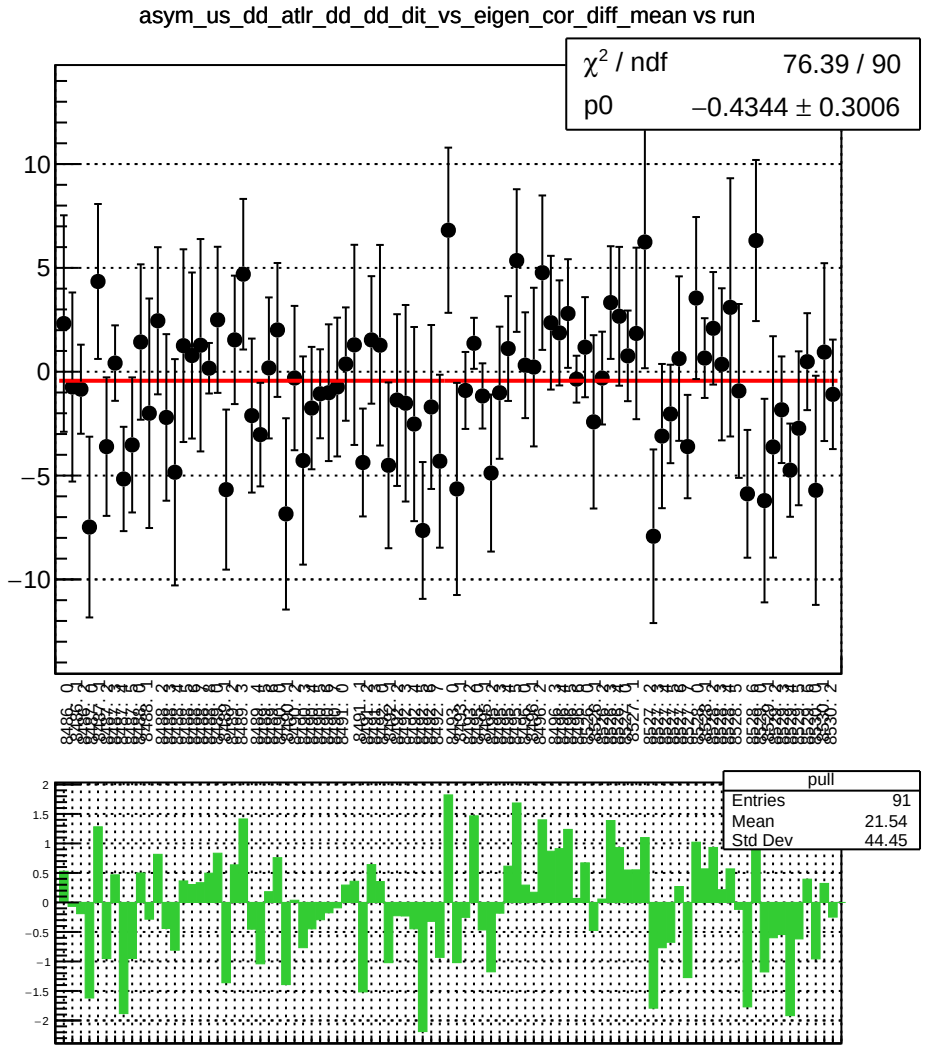

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 98.7 / 90
p0 1.561e+04 ± 11.81
16000
15900
15800
15700
15600
15500
15400
15300
15200
15100

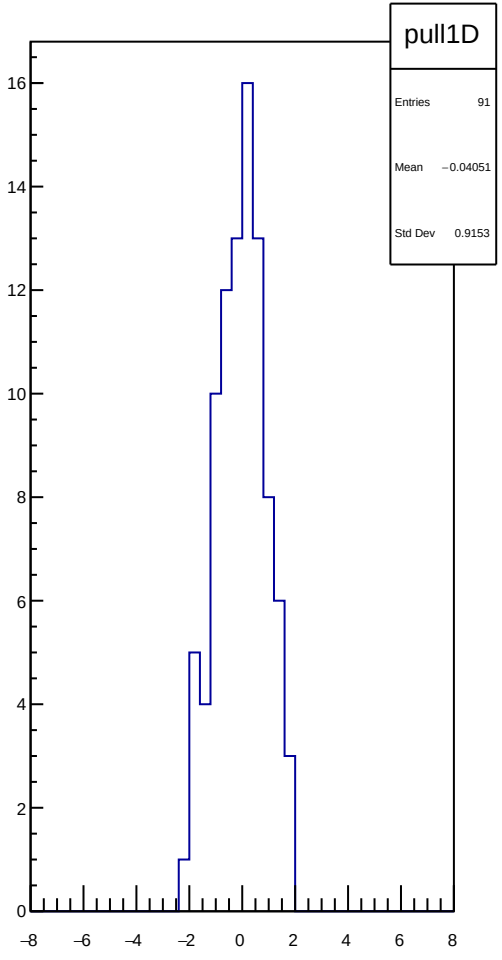

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 75.55 / 90
p0 −6.49e−14 ± 1.995e−13
0.2
0.1
0
−0.1
−0.2
pull
Entries 91
Mean 84.12
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 91
Mean 0.05298
Std Dev 0.9096
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

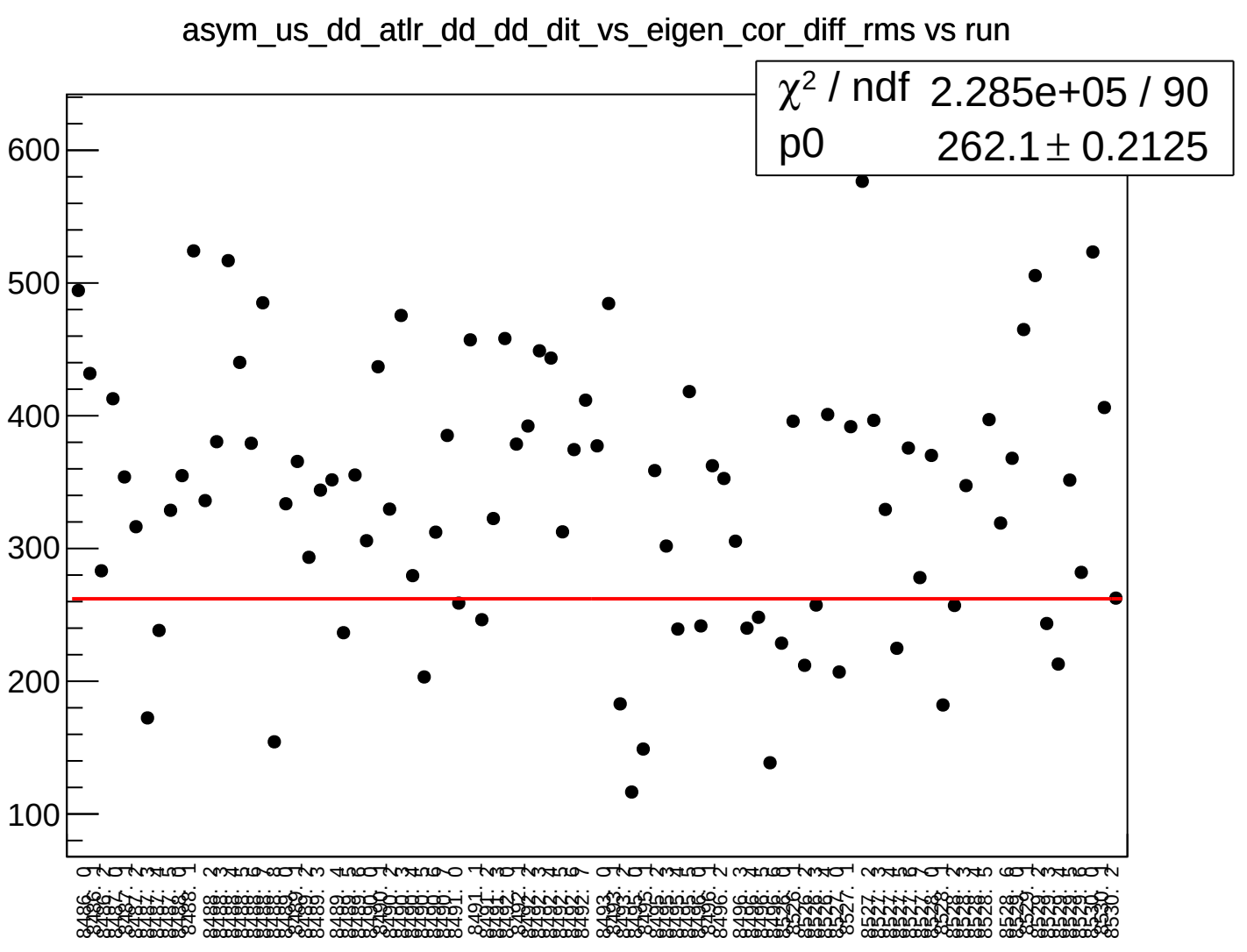

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.1e+06 / 90
p0 1.136e−10 ± 1.411e−13
10
8
6
4
2
0

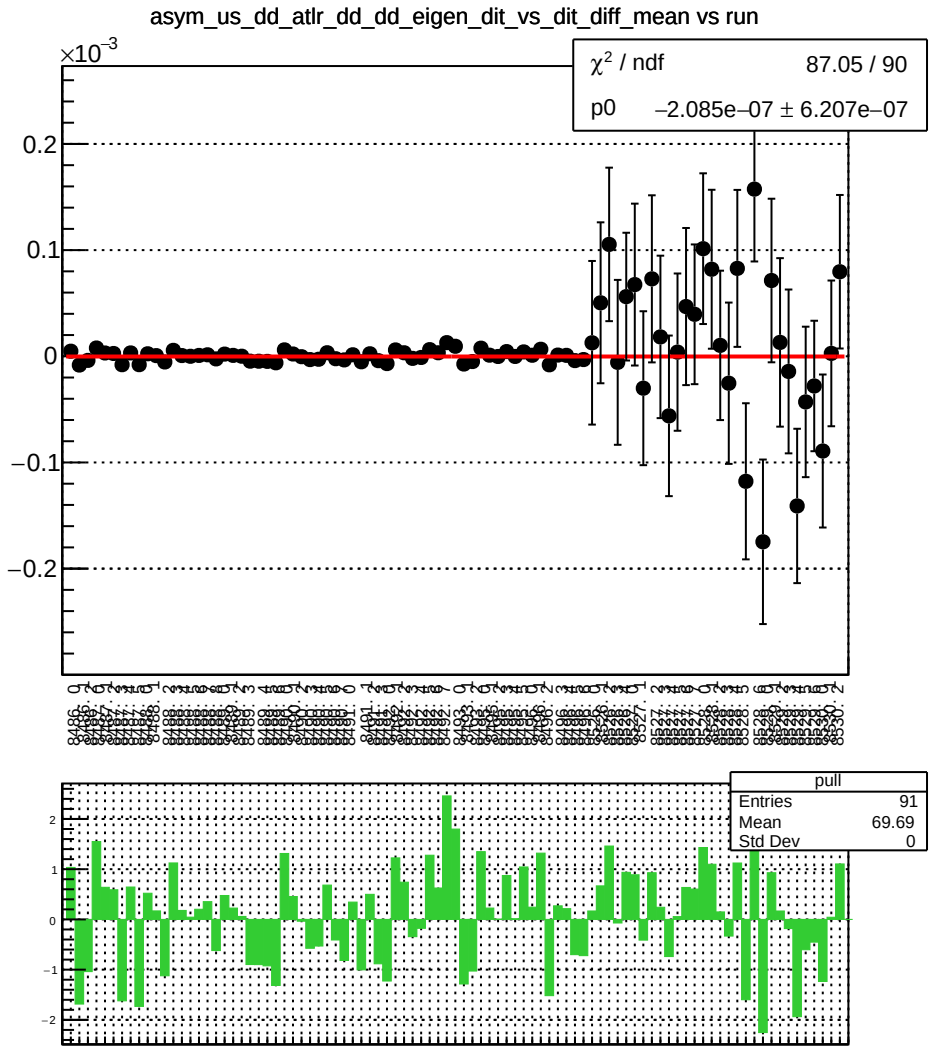

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 76.39 / 90
p0 −0.4344 ± 0.3006
pull
Entries 91
Mean 21.54
Std Dev 44.45
pull1D
Entries 91
Mean −0.04051
Std Dev 0.9153

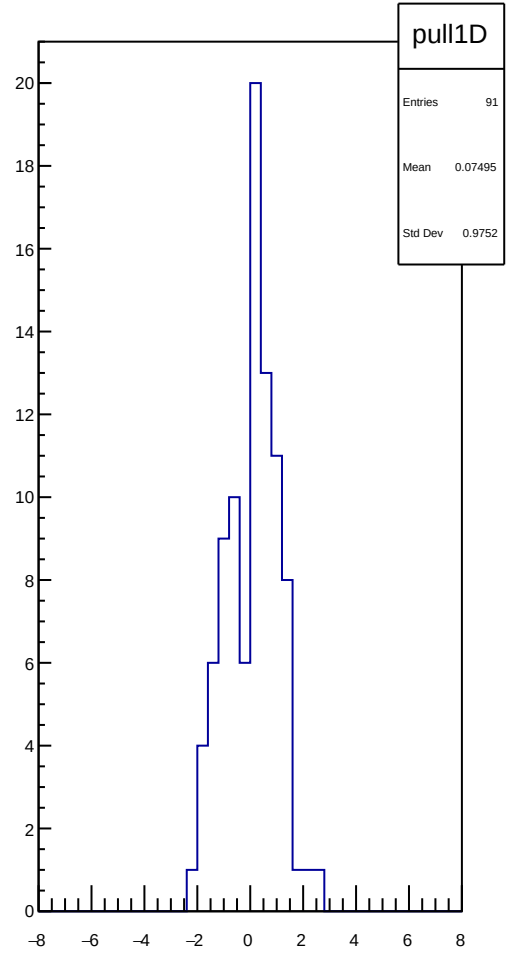

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.285e+05 / 90
p0 262.1 ± 0.2125
600
500
400
300
200
100

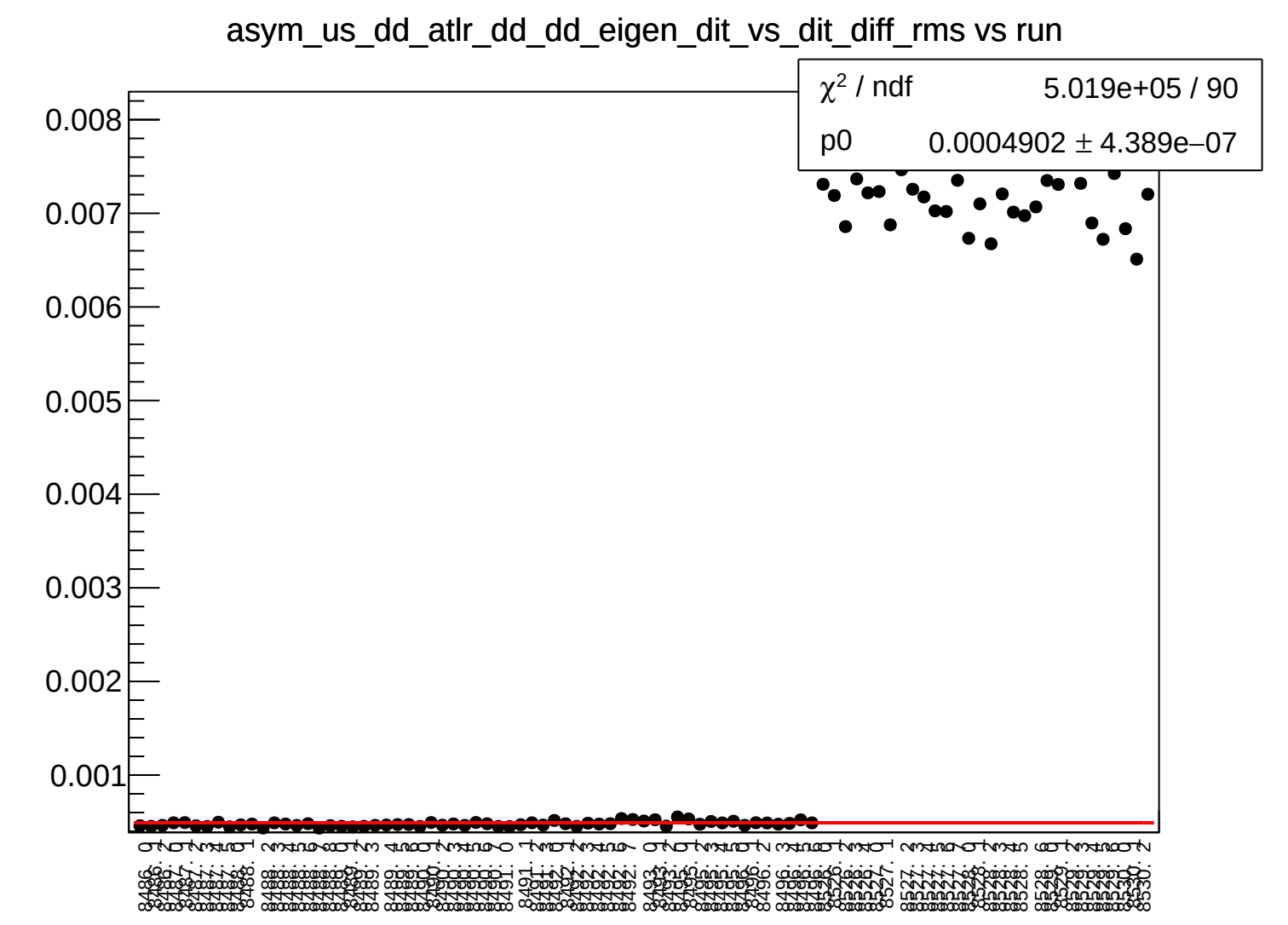

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.39 / 90
p0 −0.4344 ± 0.3006
pull
Entries 91
Mean 21.54
Std Dev 44.45

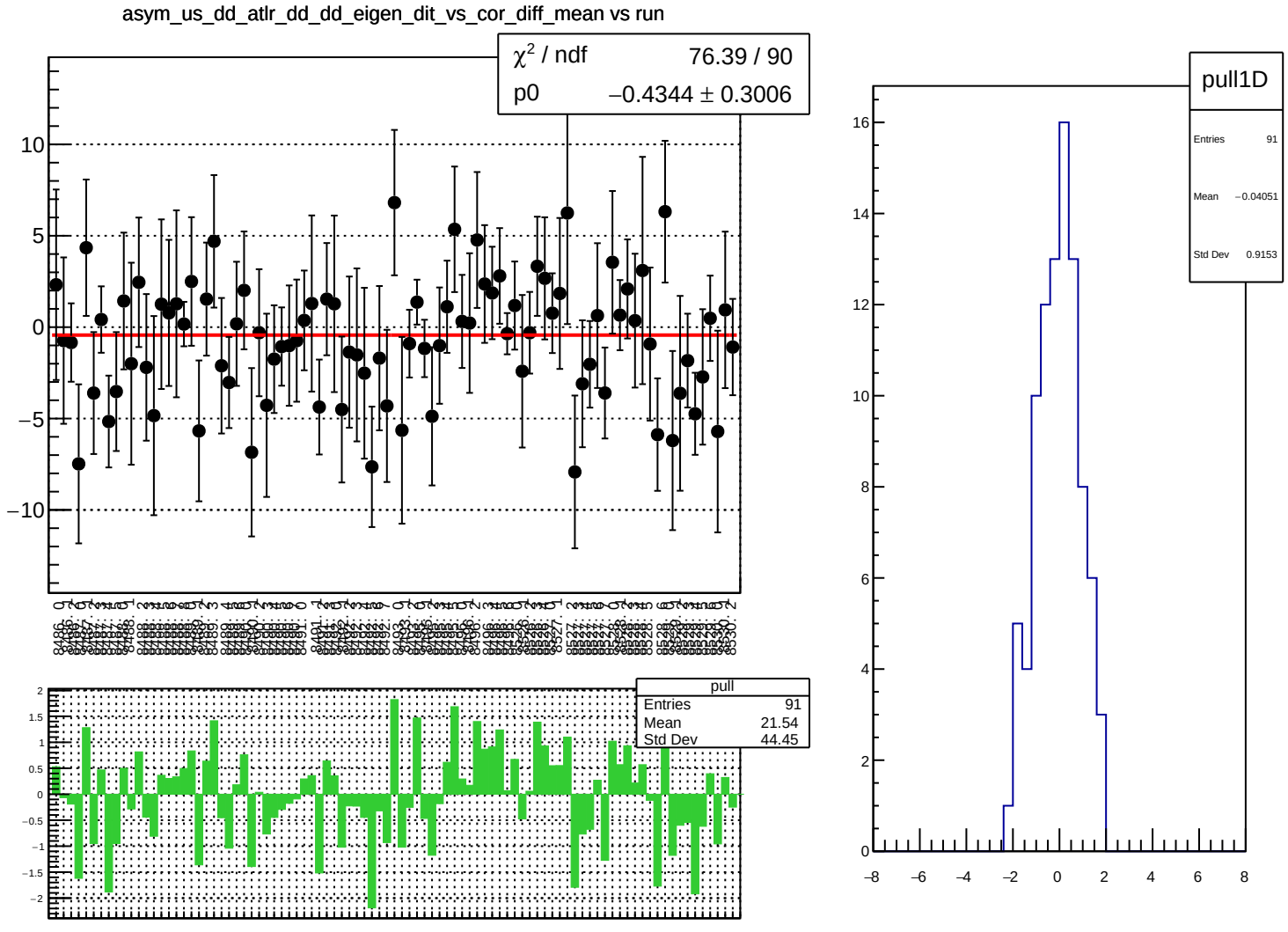

pull1D
Entries 91
Mean −0.04051
Std Dev 0.9153

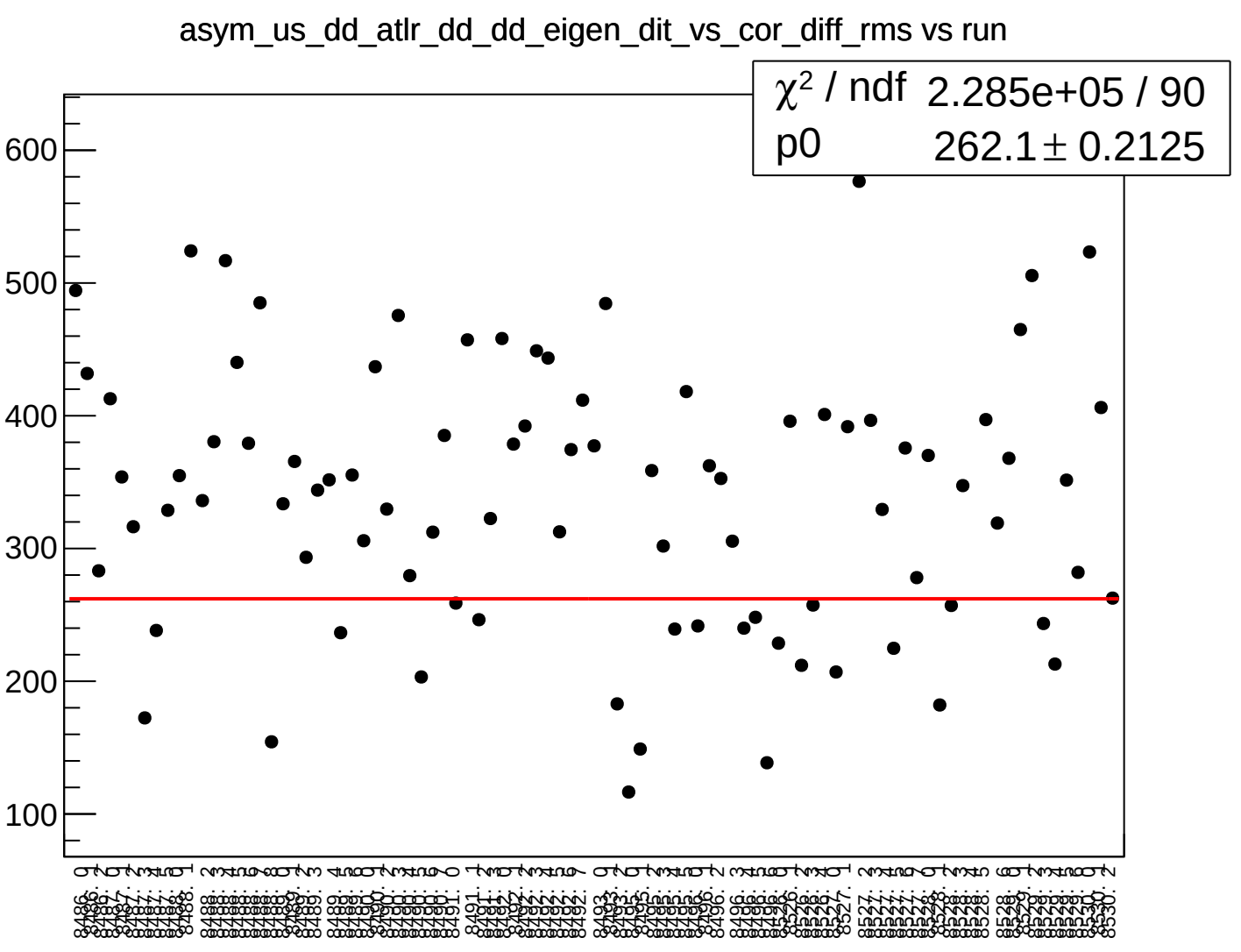

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.285e+05 / 90
p0 262.1 ± 0.2125
600
500
400
300
200
100

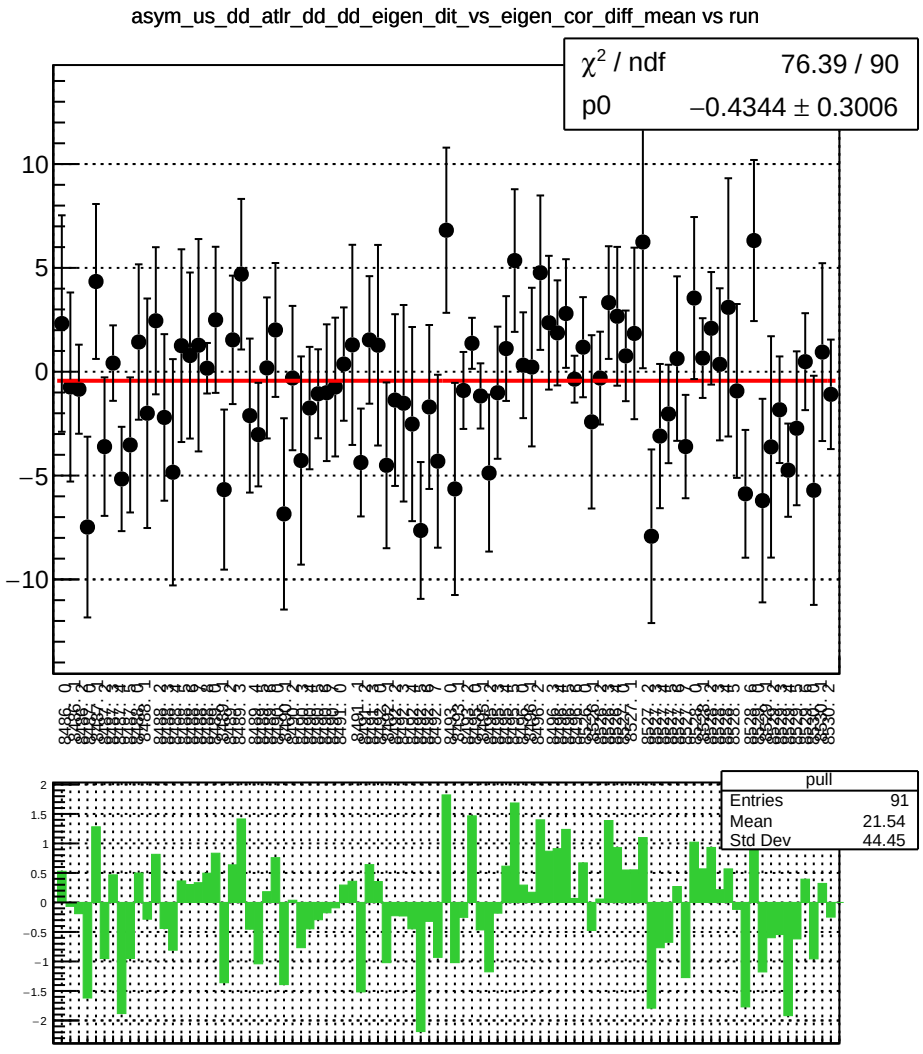

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.05 / 90
p0 −2.085e−07 ± 6.207e−07
0.2
0.1
0
−0.1
−0.2
pull
Entries 91
Mean 69.69
Std Dev 0
2
1
0
−1
−2

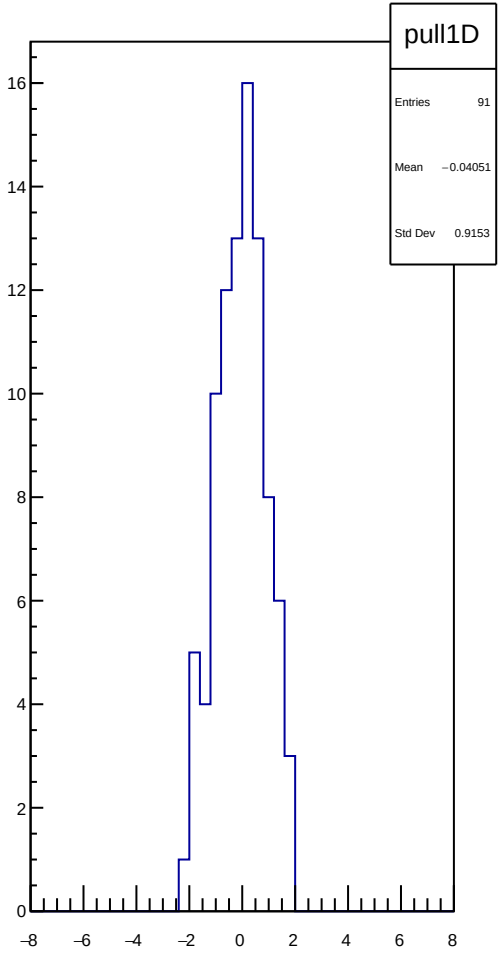

pull1D
Entries 91
Mean 0.07495
Std Dev 0.9752
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

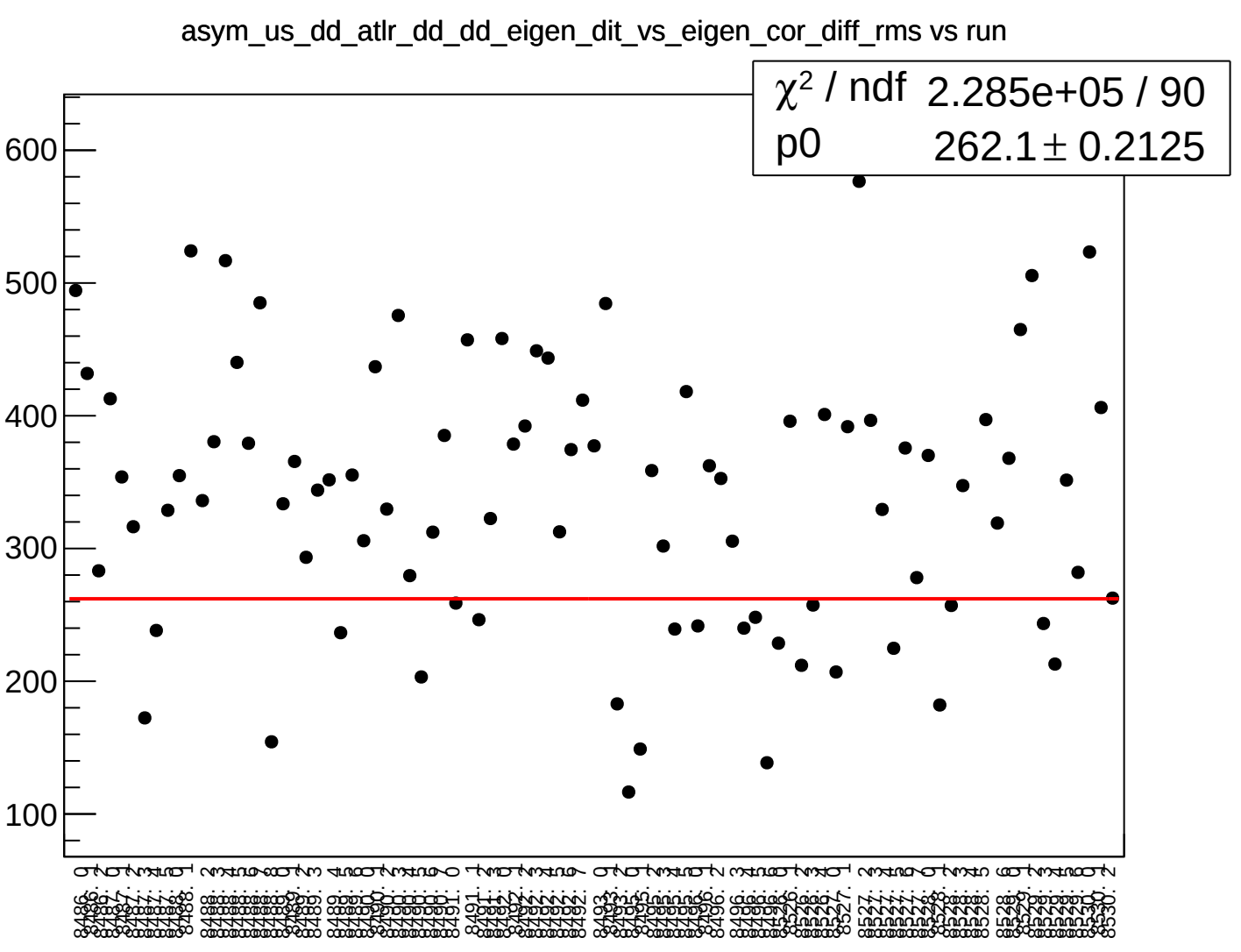

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.019e+05 / 90
p0 0.0004902 ± 4.389e−07
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001

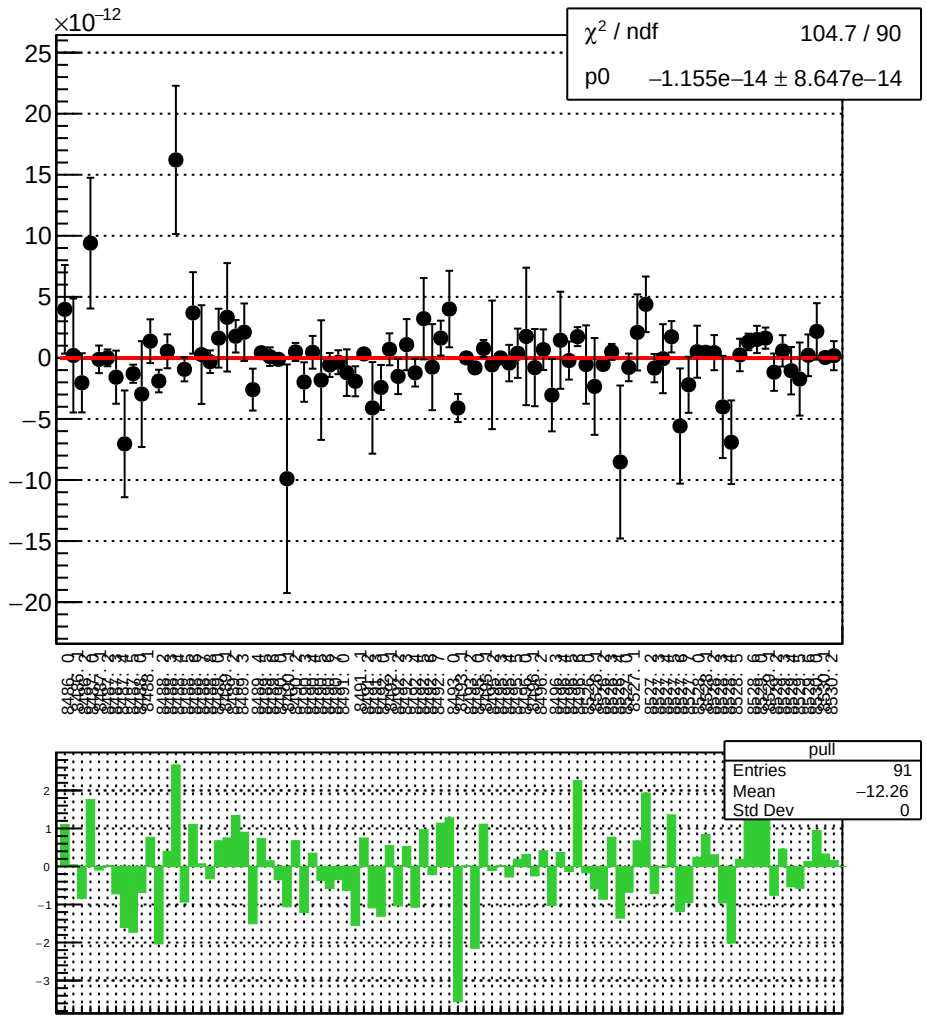

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.39 / 90
p0 −0.4344 ± 0.3006
pull
Entries 91
Mean 21.54
Std Dev 44.45
pull1D
Entries 91
Mean −0.04051
Std Dev 0.9153

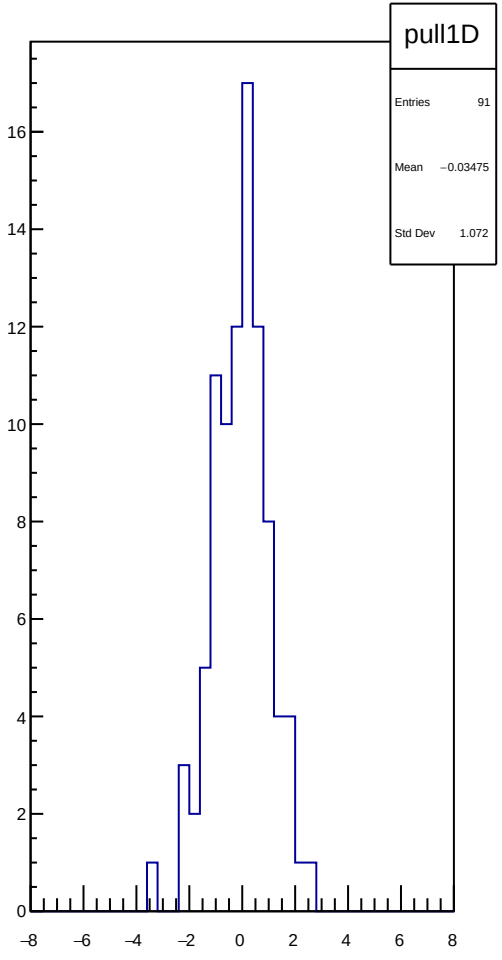

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.285e+05 / 90
p0 262.1 ± 0.2125
600
500
400
300
200
100

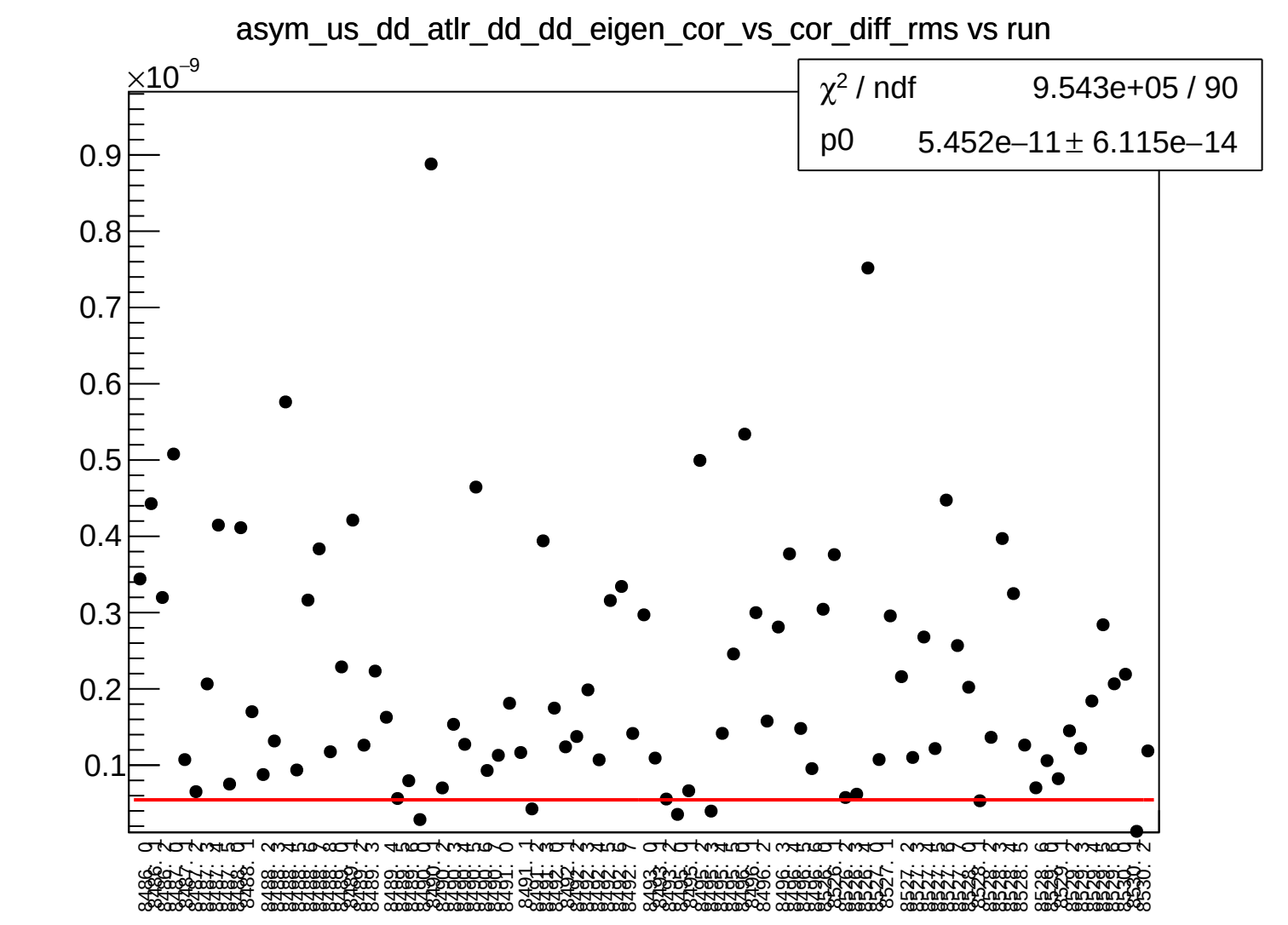

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.39 / 90
p0 −0.4344 ± 0.3006
pull
Entries 91
Mean 21.54
Std Dev 44.45

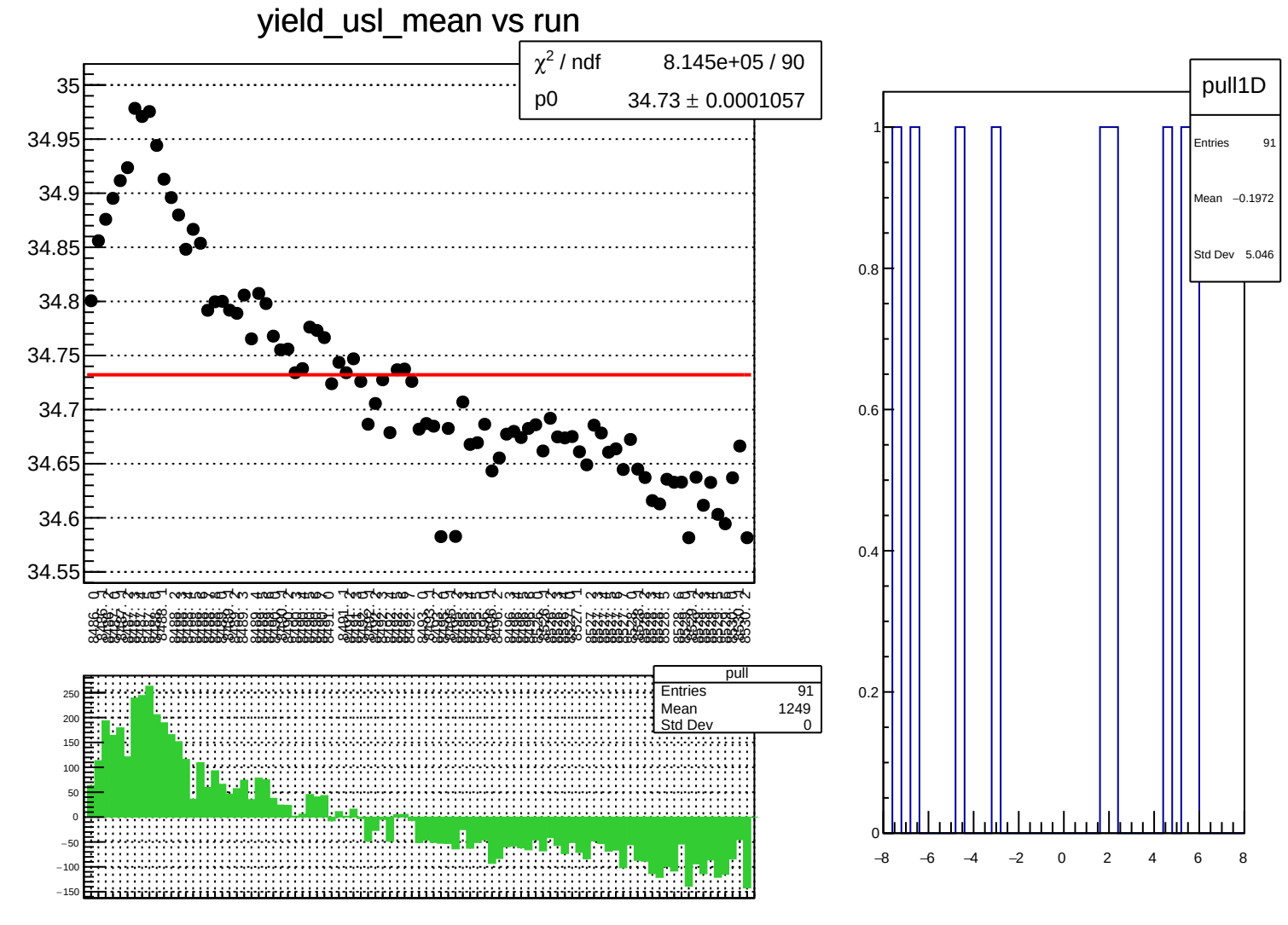

pull1D
Entries 91
Mean −0.04051
Std Dev 0.9153

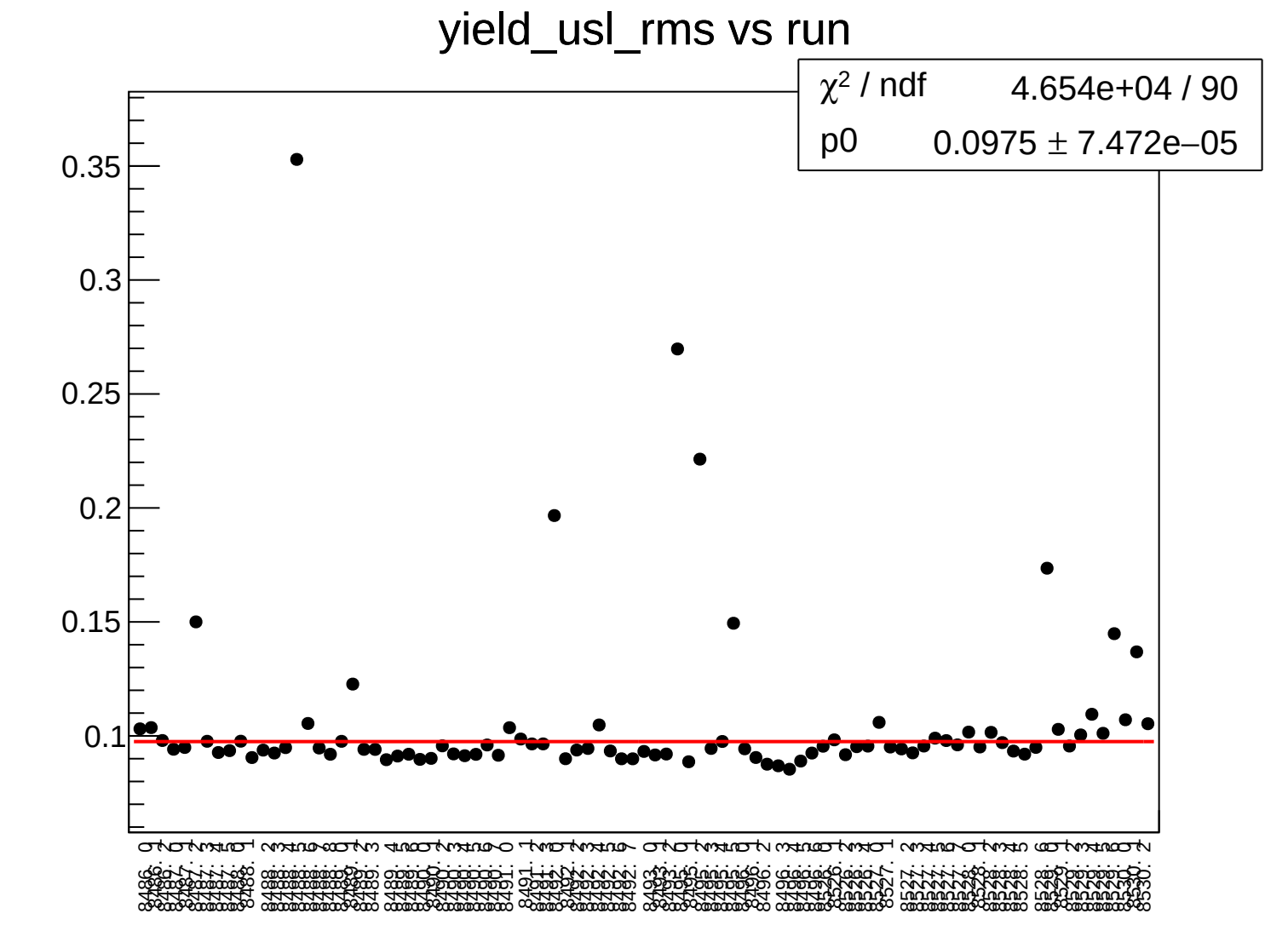

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.285e+05 / 90
p0 262.1 ± 0.2125
600
500
400
300
200
100

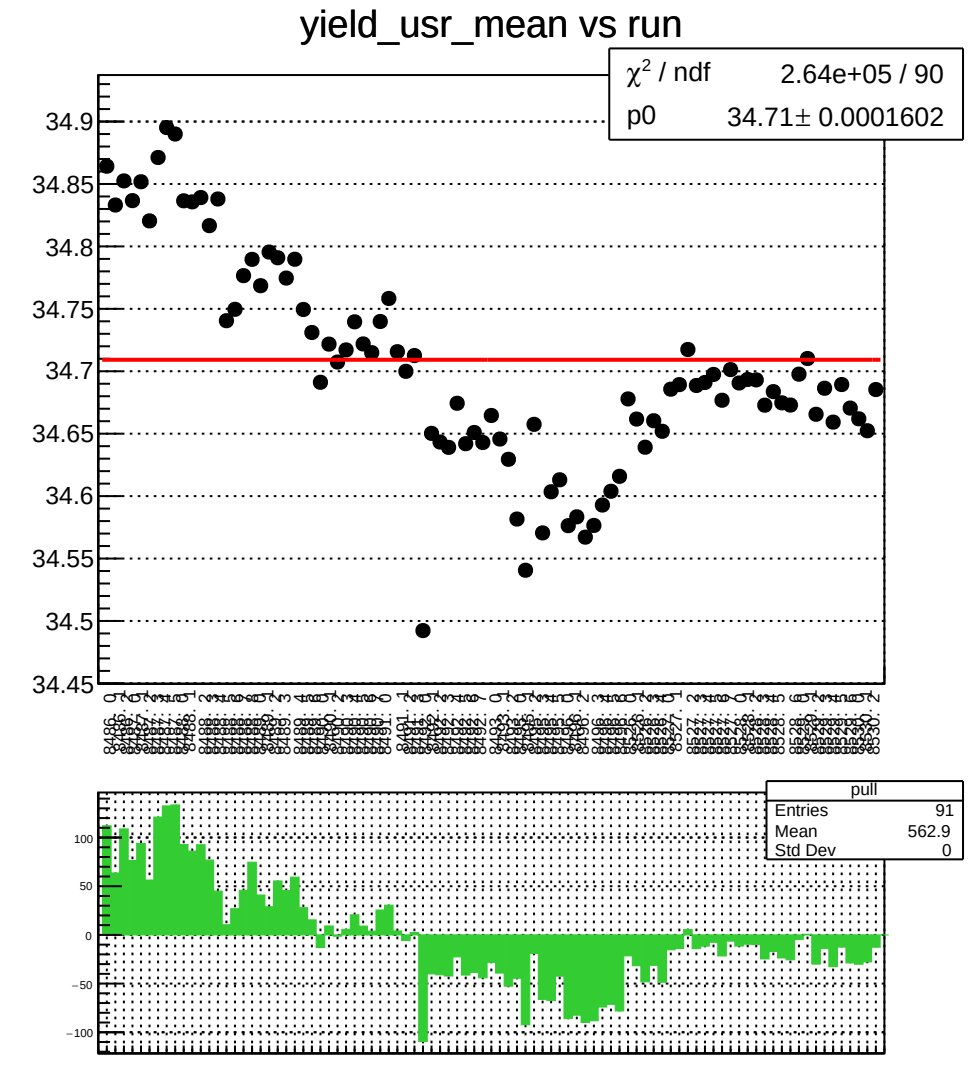

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 104.7 / 90
p0 −1.155e−14 ± 8.647e−14
pull
Entries 91
Mean −12.26
Std Dev 0

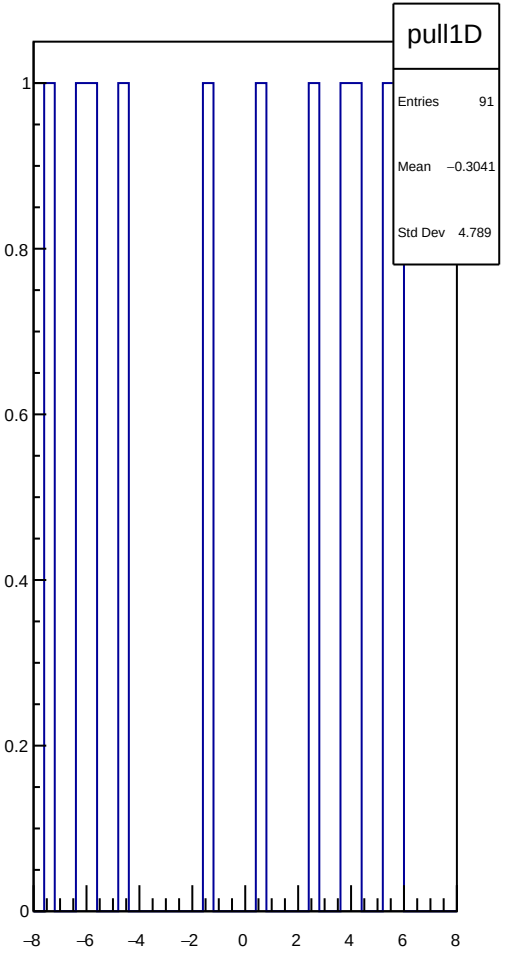

pull1D
Entries 91
Mean −0.03475
Std Dev 1.072

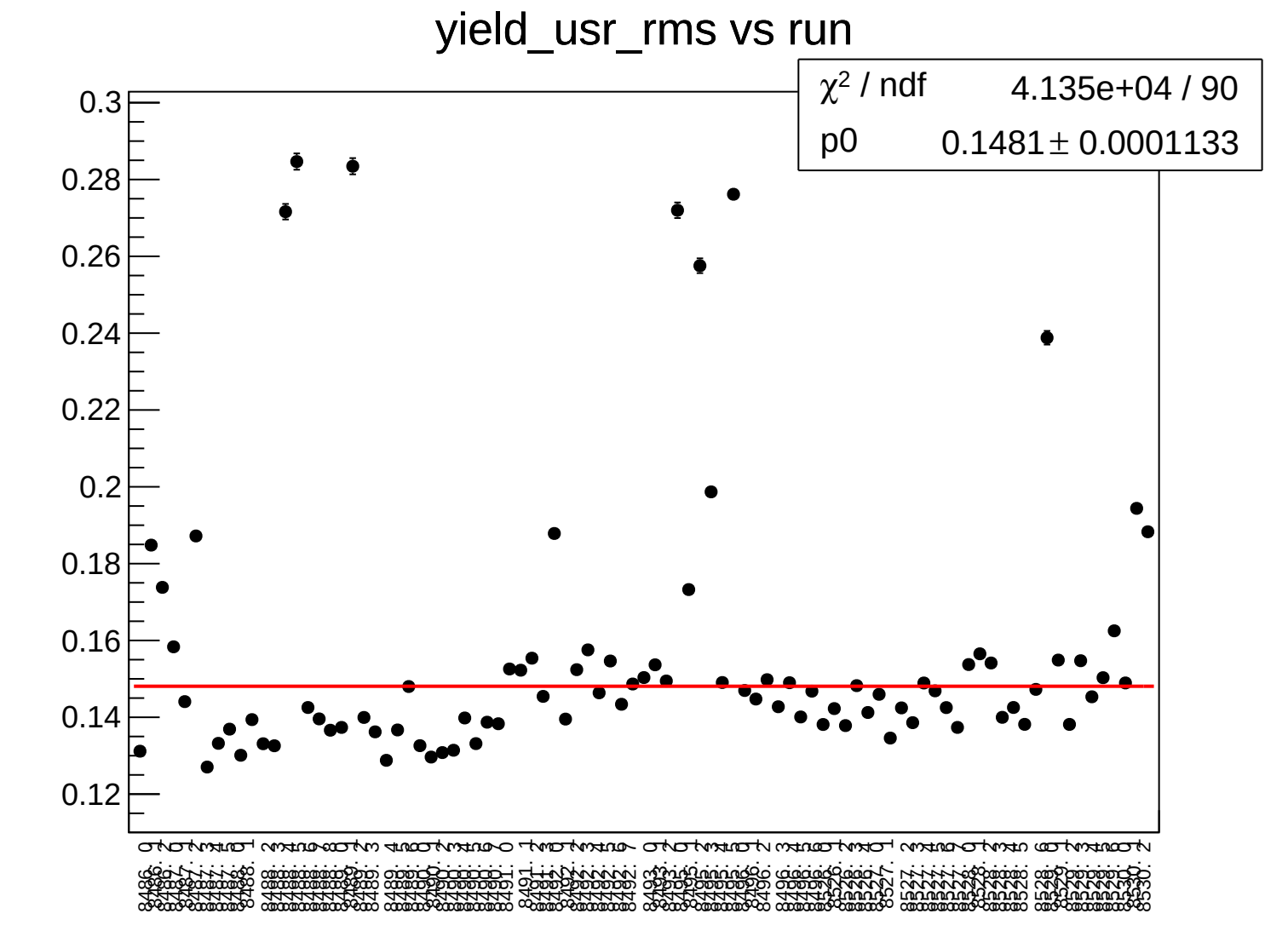

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.543e+05 / 90
p0 5.452e−11 ± 6.115e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

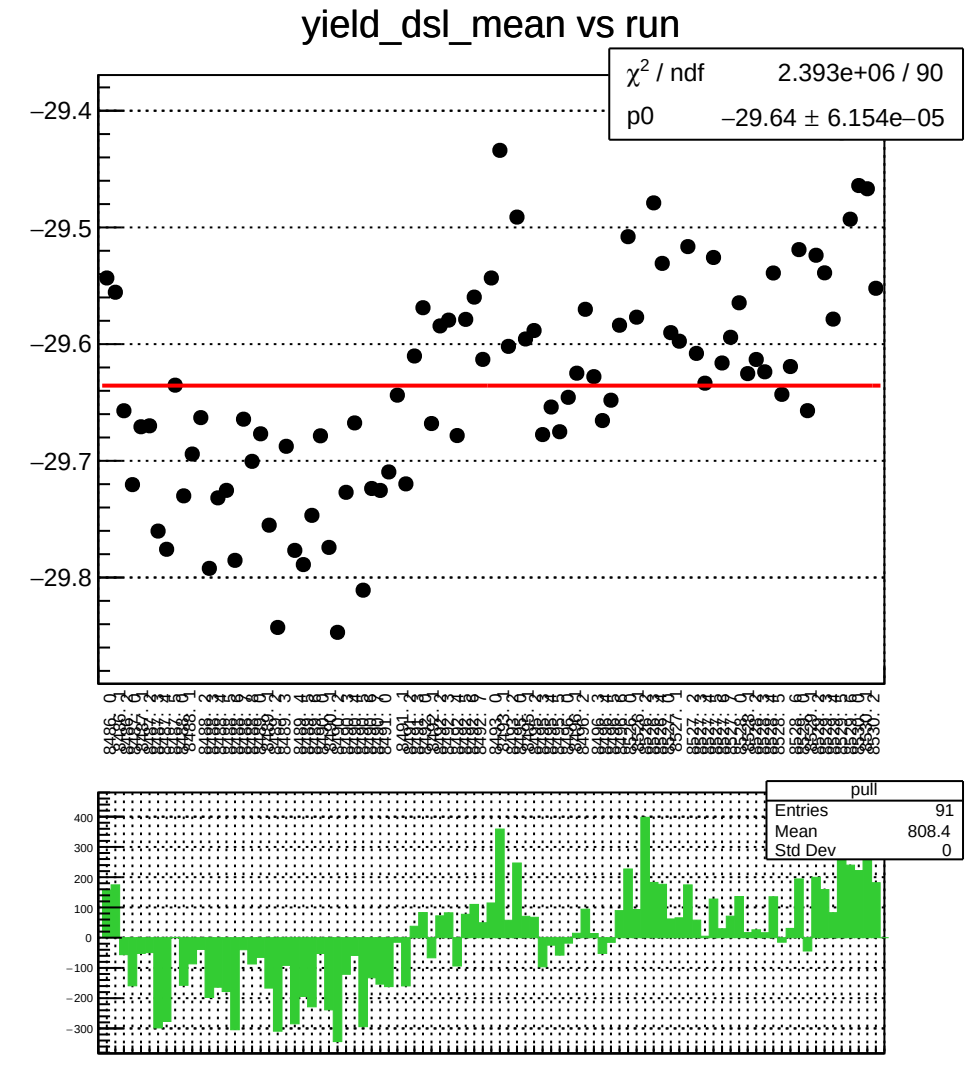

yield_usl_mean vs run
χ² / ndf 8.145e+05 / 90
p0 34.73 ± 0.0001057
35
34.95
34.9
34.85
34.8
34.75
34.7
34.65
34.6
34.55
pull
Entries 91
Mean 1249
Std Dev 0
250
200
150
100
50
0
−50
−100
−150
pull1D
Entries 91
Mean −0.1972
Std Dev 5.046
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

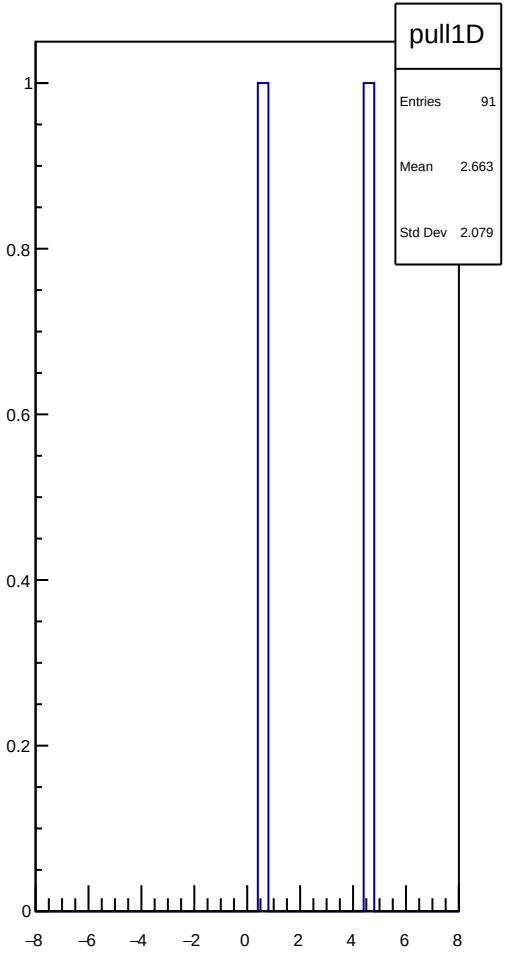

yield_usl_rms vs run
χ² / ndf 4.654e+04 / 90
p0 0.0975 ± 7.472e−05
0.35
0.3
0.25
0.2
0.15
0.1

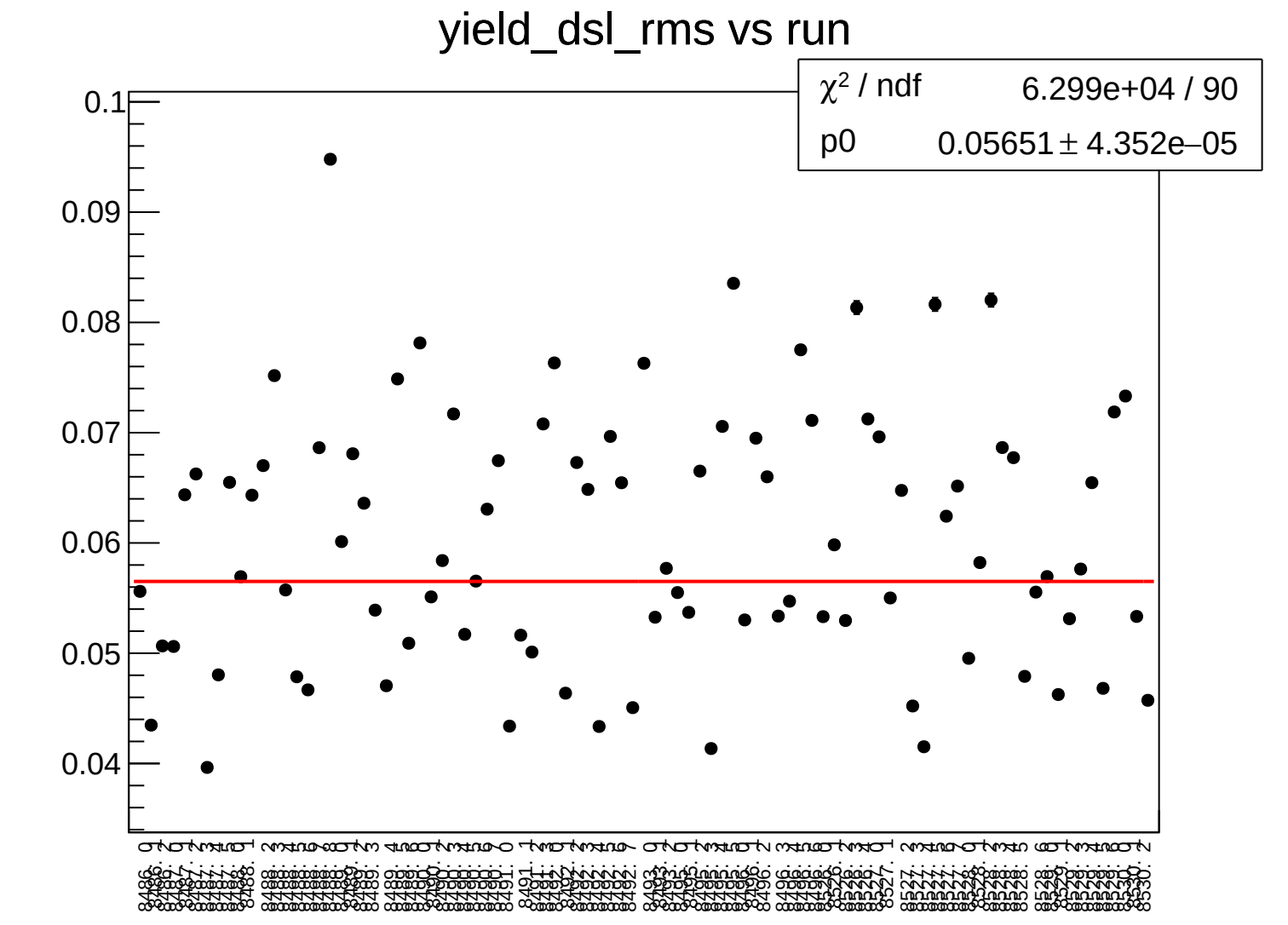

yield_usr_mean vs run
χ² / ndf 2.64e+05 / 90
p0 34.71± 0.0001602
34.9
34.85
34.8
34.75
34.7
34.65
34.6
34.55
34.5
34.45
pull
Entries 91
Mean 562.9
Std Dev 0
100
50
0
−50
−100

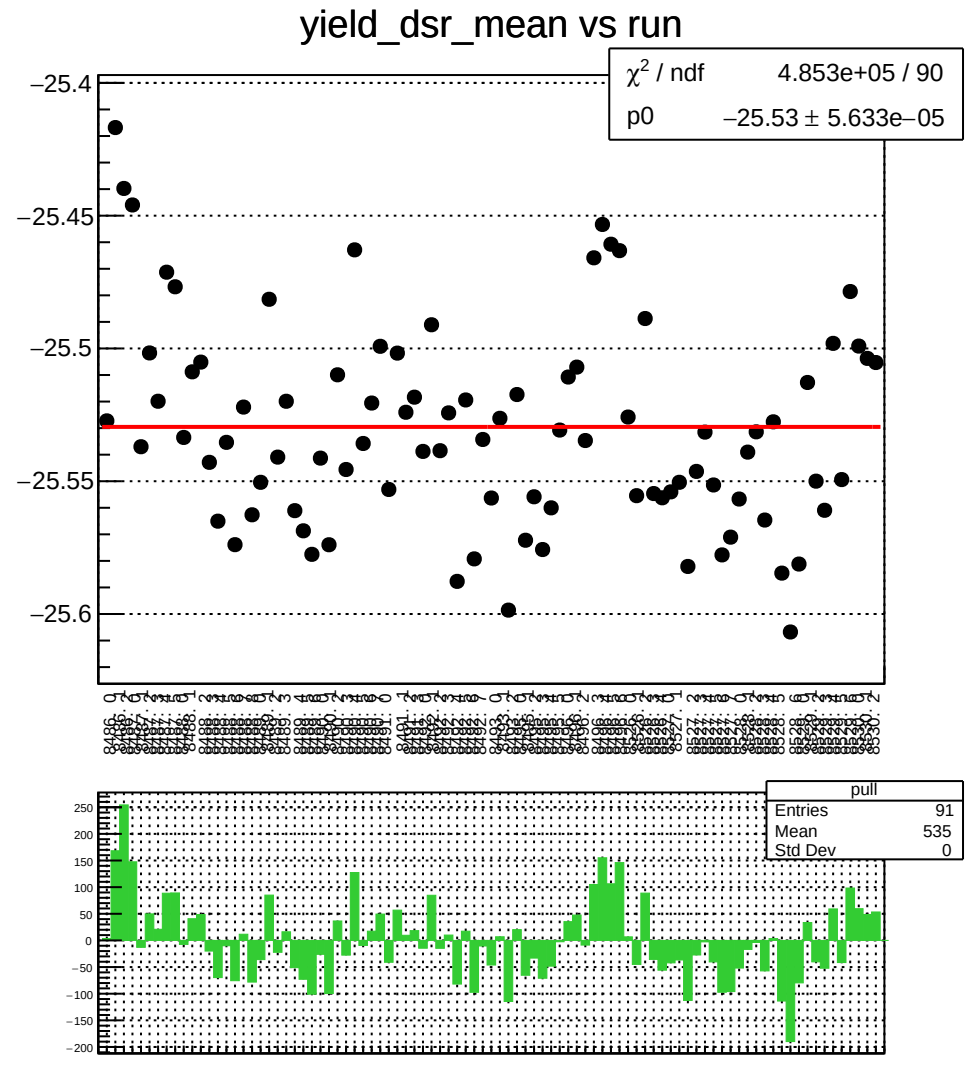

pull1D
Entries 91
Mean −0.3041
Std Dev 4.789
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

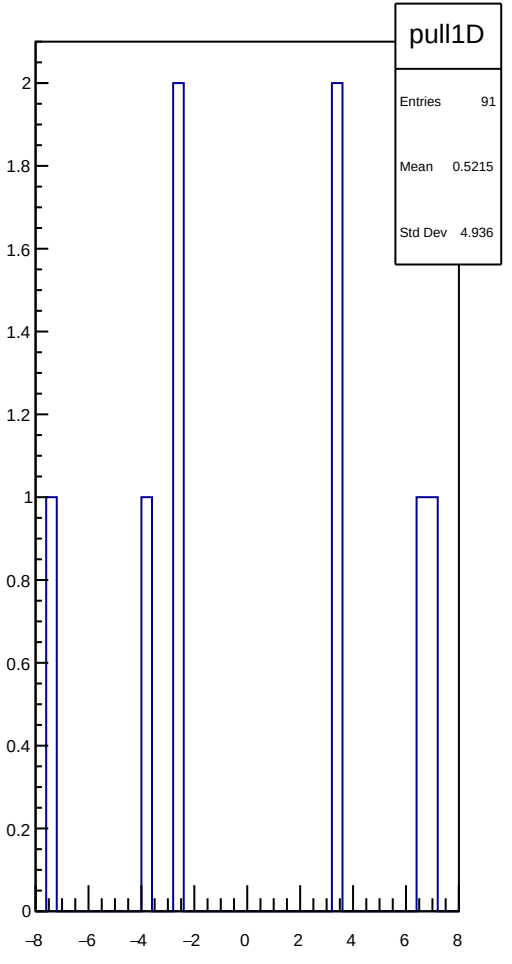

yield_usr_rms vs run
χ² / ndf 4.135e+04 / 90
p0 0.1481 ± 0.0001133
0.3
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12

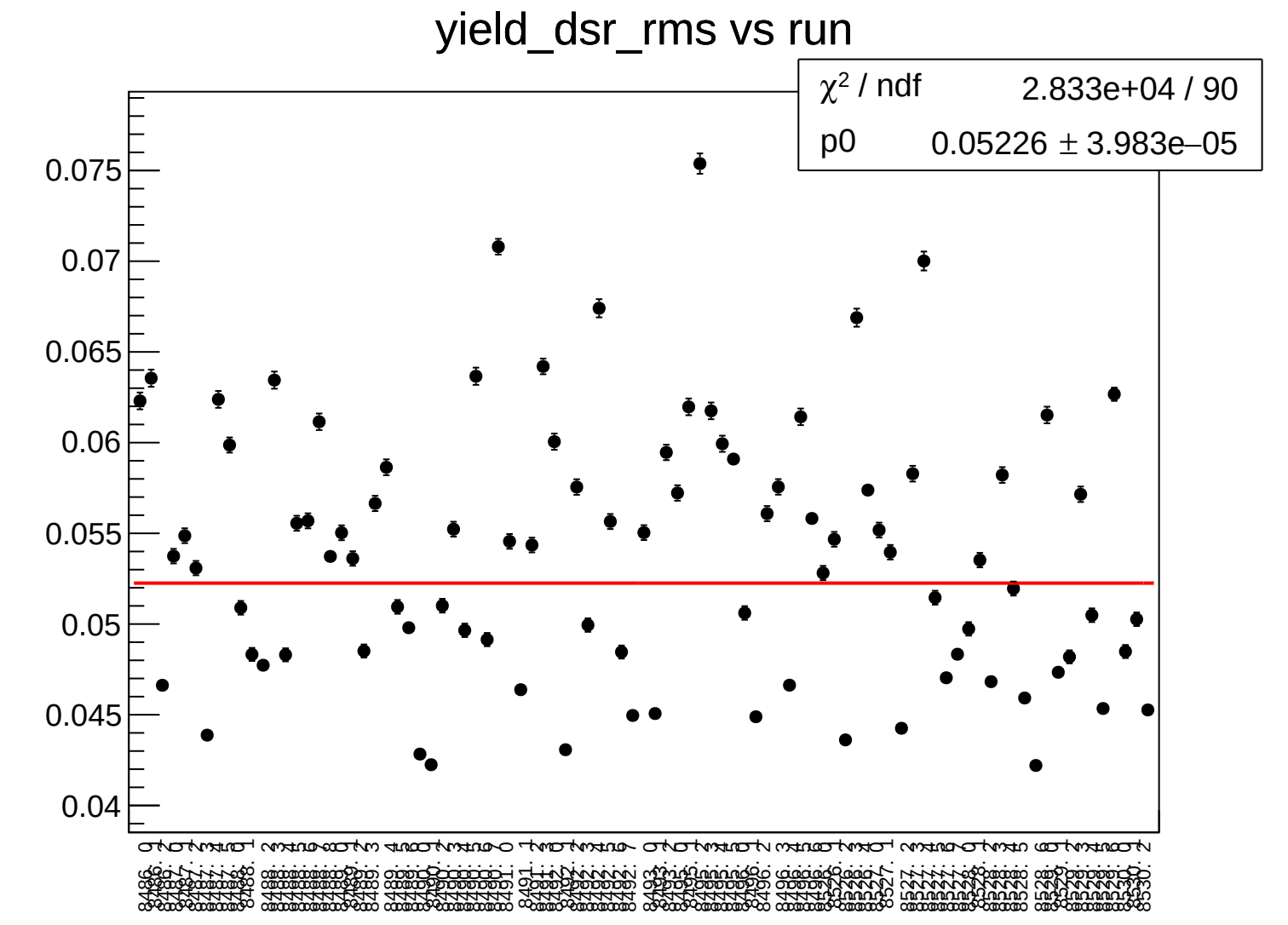

yield_dsl_mean vs run
χ² / ndf 2.393e+06 / 90
p0 −29.64 ± 6.154e−05
−29.4
−29.5
−29.6
−29.7
−29.8
pull
Entries 91
Mean 808.4
Std Dev 0
400
300
200
100
0
−100
−200
−300

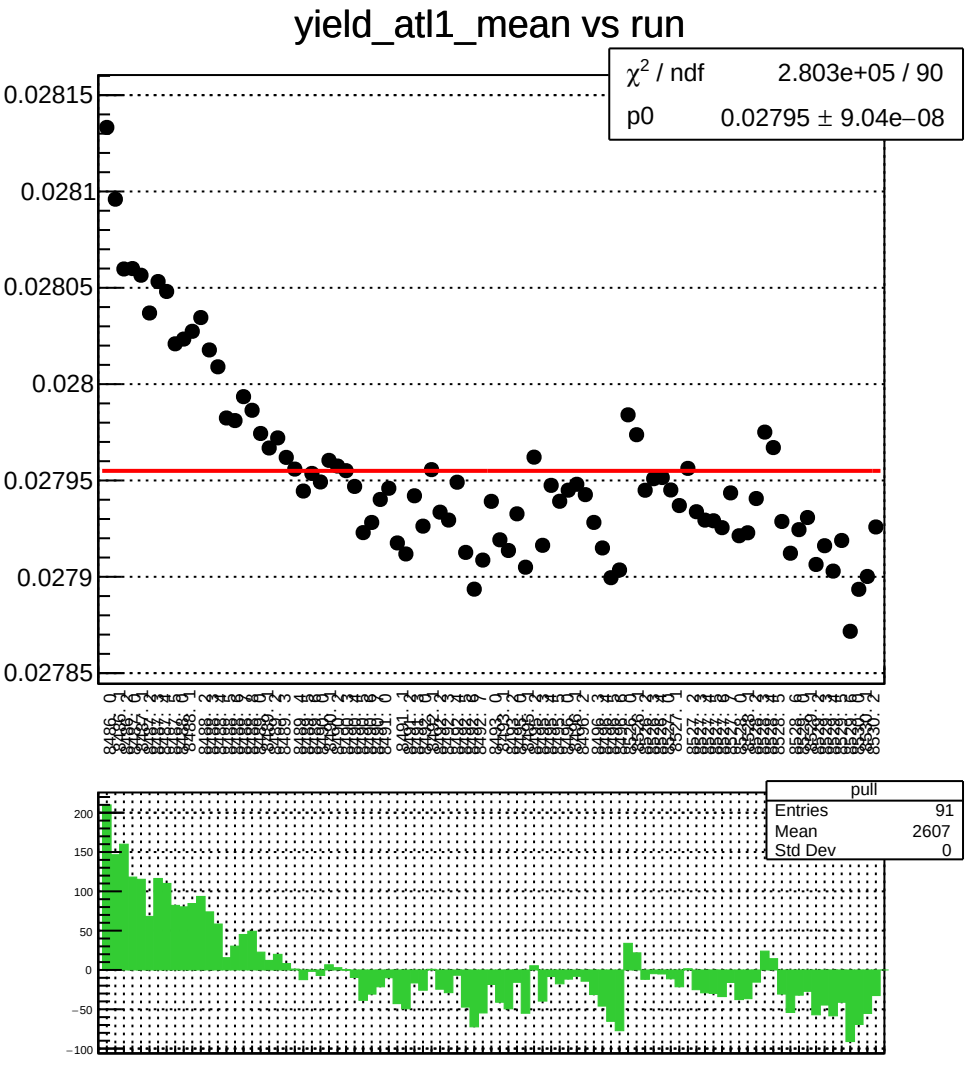

pull1D
Entries 91
Mean 2.663
Std Dev 2.079
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

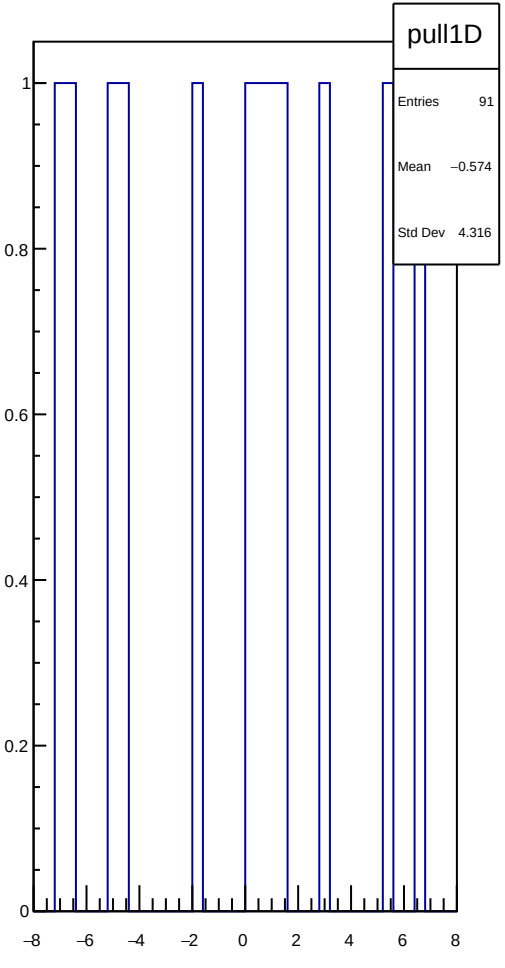

yield_dsl_rms vs run
χ² / ndf 6.299e+04 / 90
p0 0.05651 ± 4.352e−05
0.1
0.09
0.08
0.07
0.06
0.05
0.04

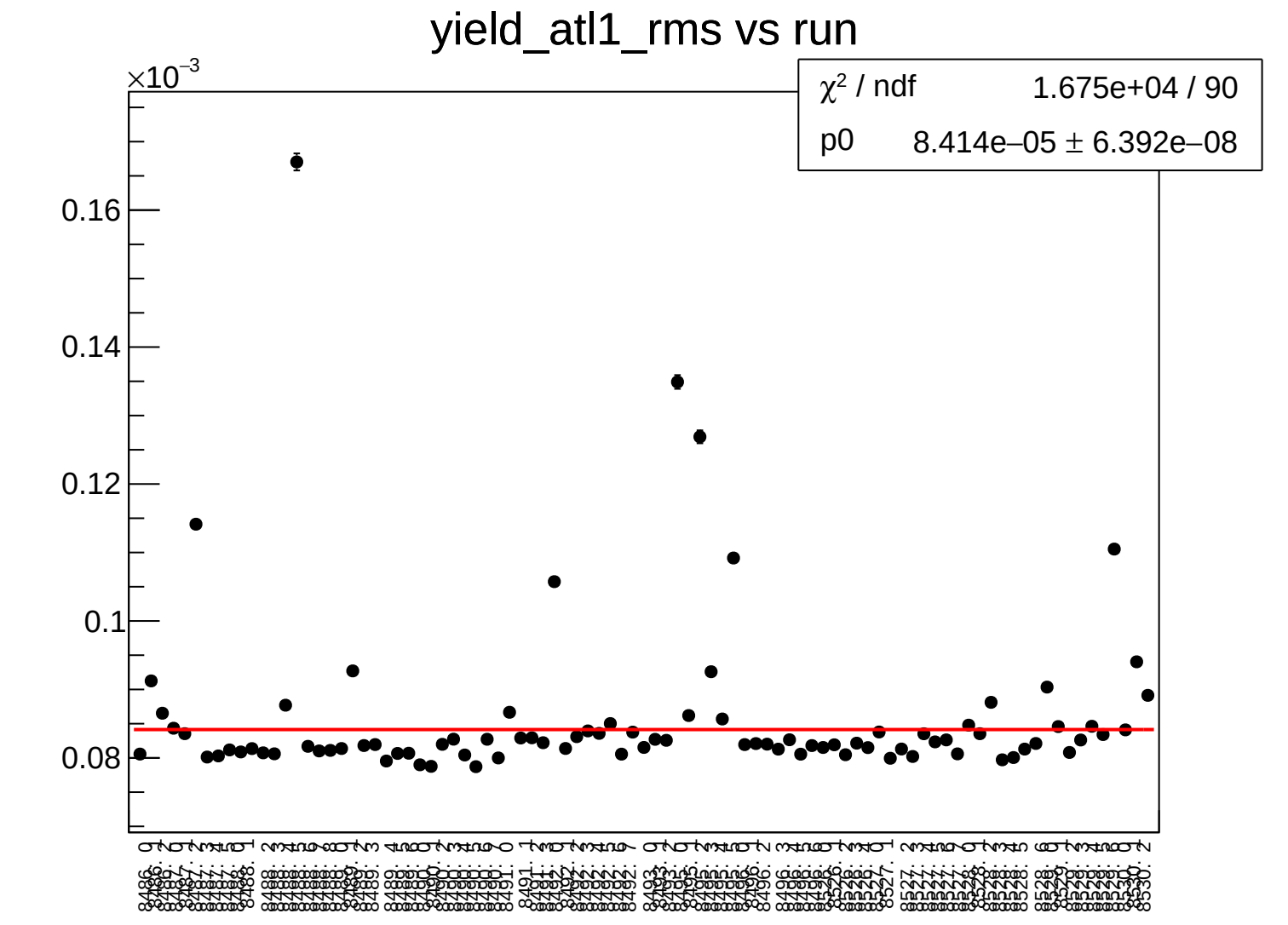

yield_dsr_mean vs run
χ² / ndf 4.853e+05 / 90
p0 −25.53 ± 5.633e−05
−25.4
−25.45
−25.5
−25.55
−25.6
pull
Entries 91
Mean 535
Std Dev 0
250
200
150
100
50
0
−50
−100
−150
−200

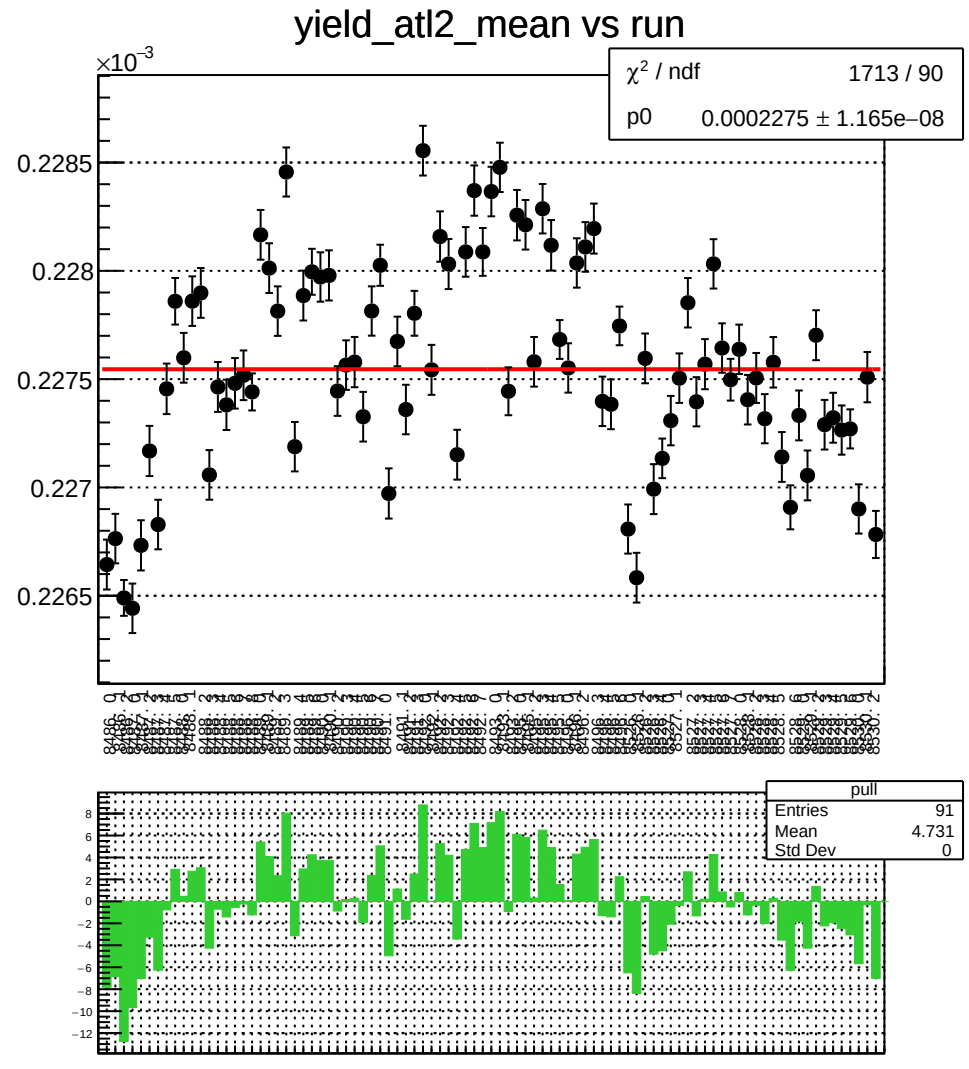

pull1D
Entries 91
Mean 0.5215
Std Dev 4.936
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

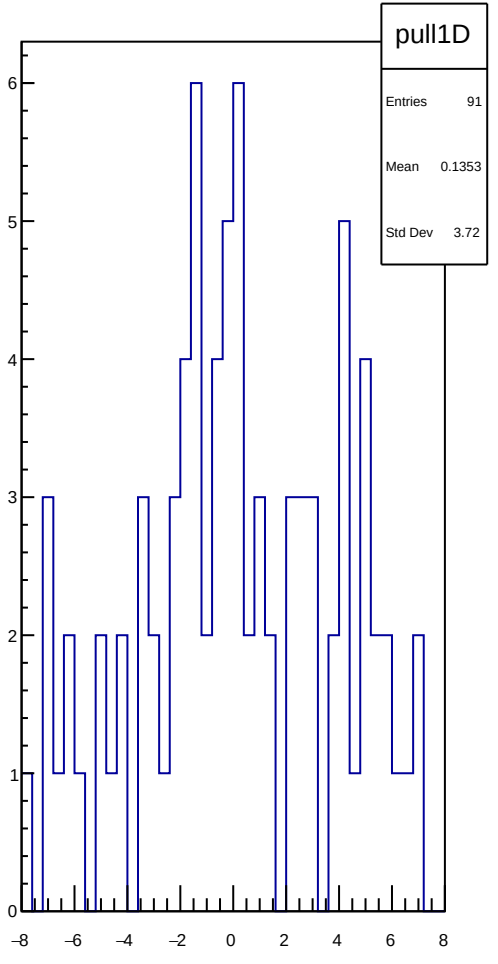

yield_dsr_rms vs run
χ² / ndf 2.833e+04 / 90
p0 0.05226 ± 3.983e−05
0.075
0.07
0.065
0.06
0.055
0.05
0.045
0.04

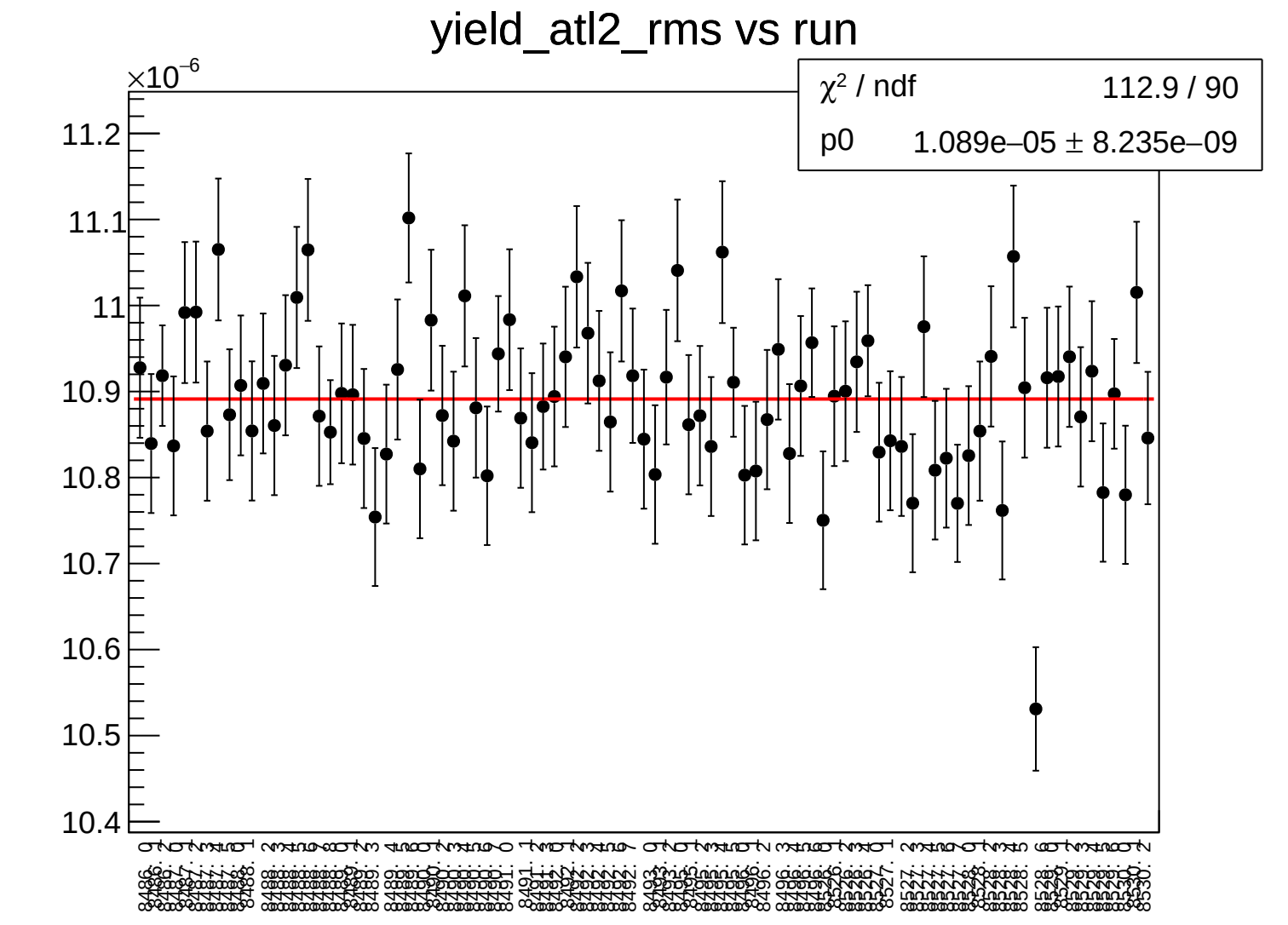

yield_atl1_mean vs run
χ² / ndf 2.803e+05 / 90
p0 0.02795 ± 9.04e−08
0.02815
0.0281
0.02805
0.028
0.02795
0.0279
0.02785
pull
Entries 91
Mean 2607
Std Dev 0
200
150
100
50
0
−50
−100

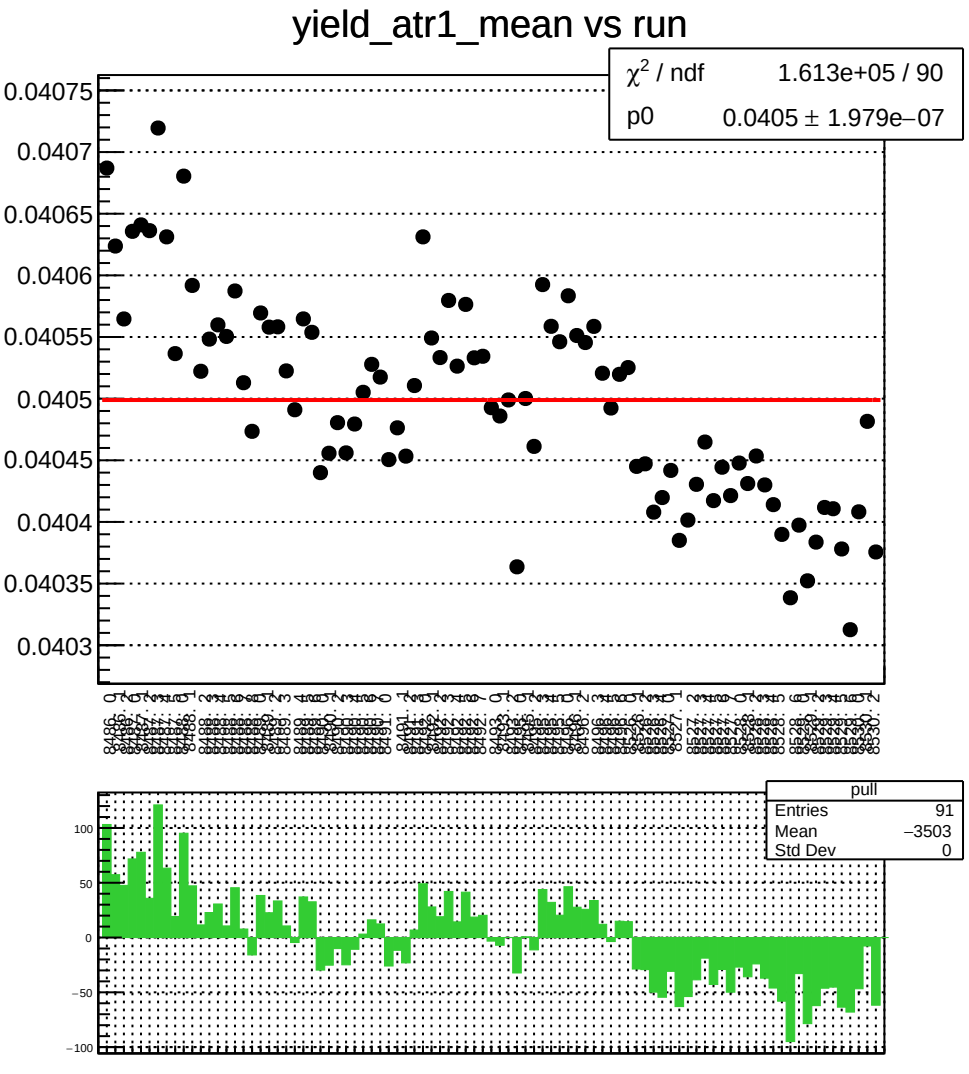

pull1D
Entries 91
Mean −0.574
Std Dev 4.316
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

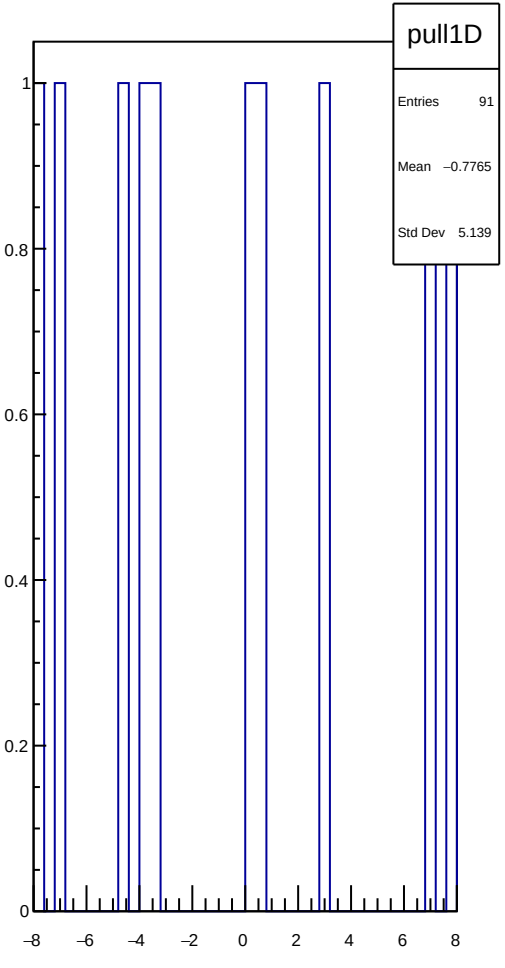

yield_atl1_rms vs run
×10⁻³
χ² / ndf 1.675e+04 / 90
p0 8.414e−05 ± 6.392e−08
0.16
0.14
0.12
0.1
0.08

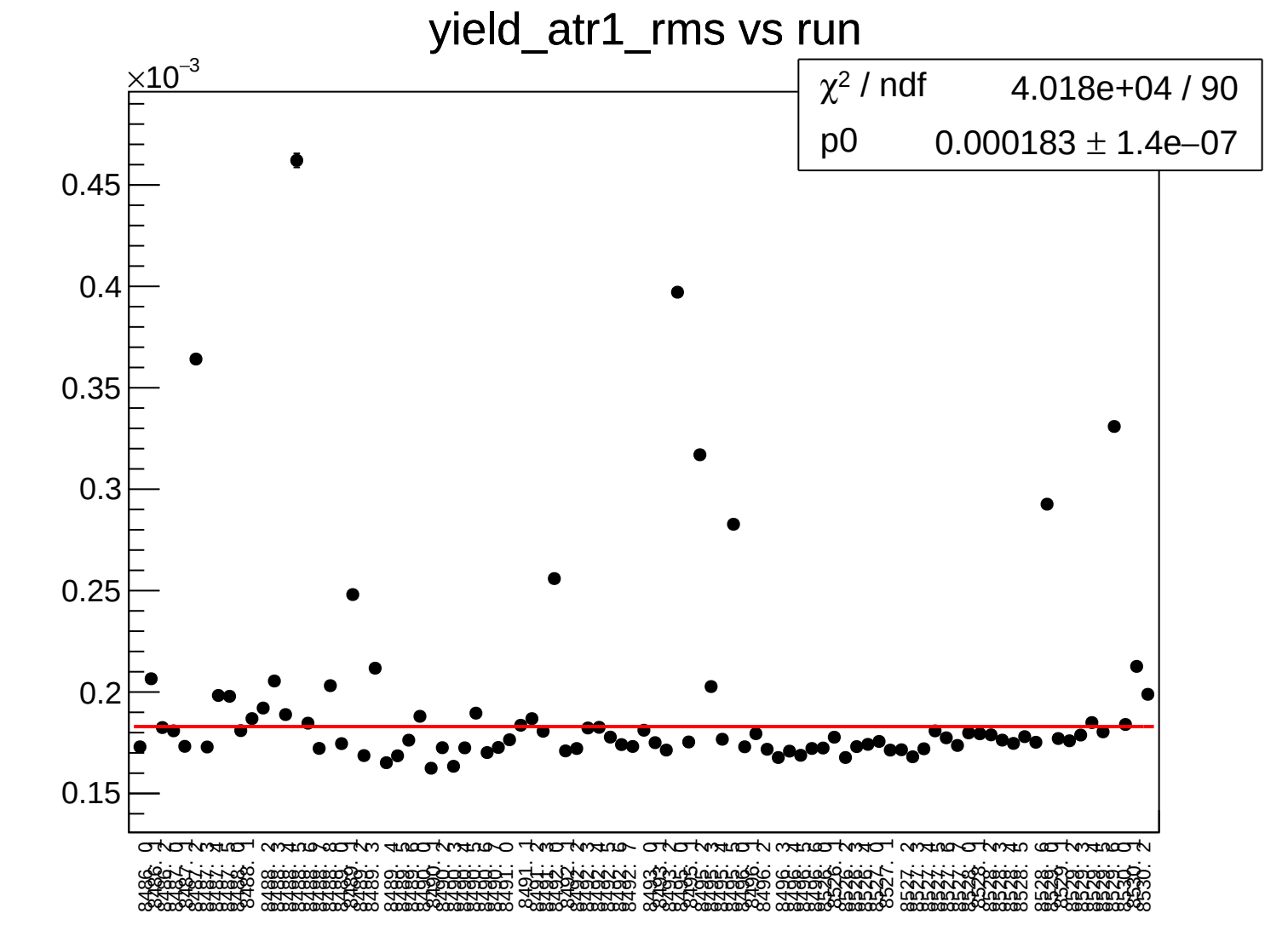

yield_atl2_mean vs run
×10⁻³
χ² / ndf 1713 / 90
p0 0.0002275 ± 1.165e−08
0.2285
0.228
0.2275
0.227
0.2265
pull
Entries 91
Mean 4.731
Std Dev 0

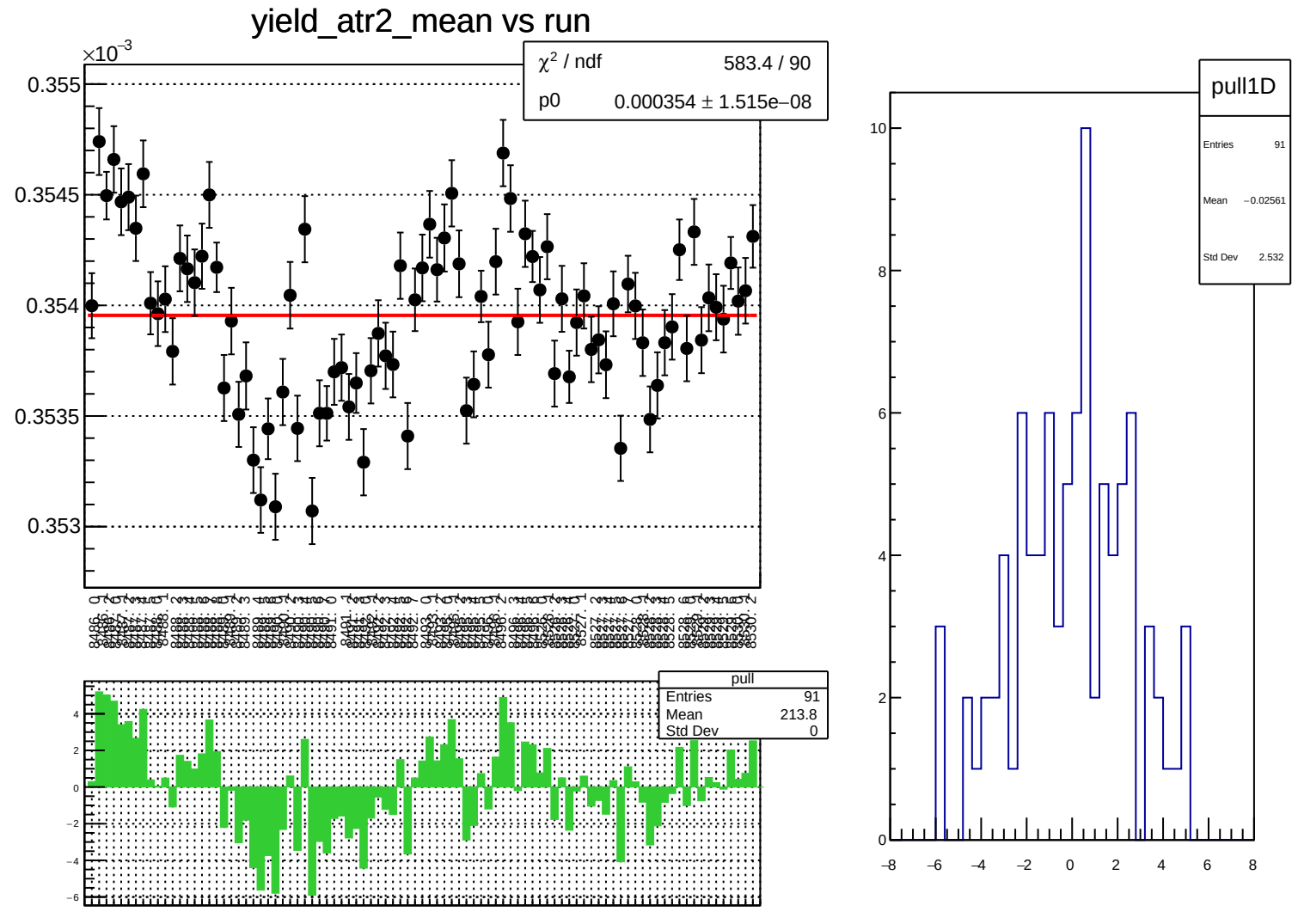

pull1D
Entries 91
Mean 0.1353
Std Dev 3.72

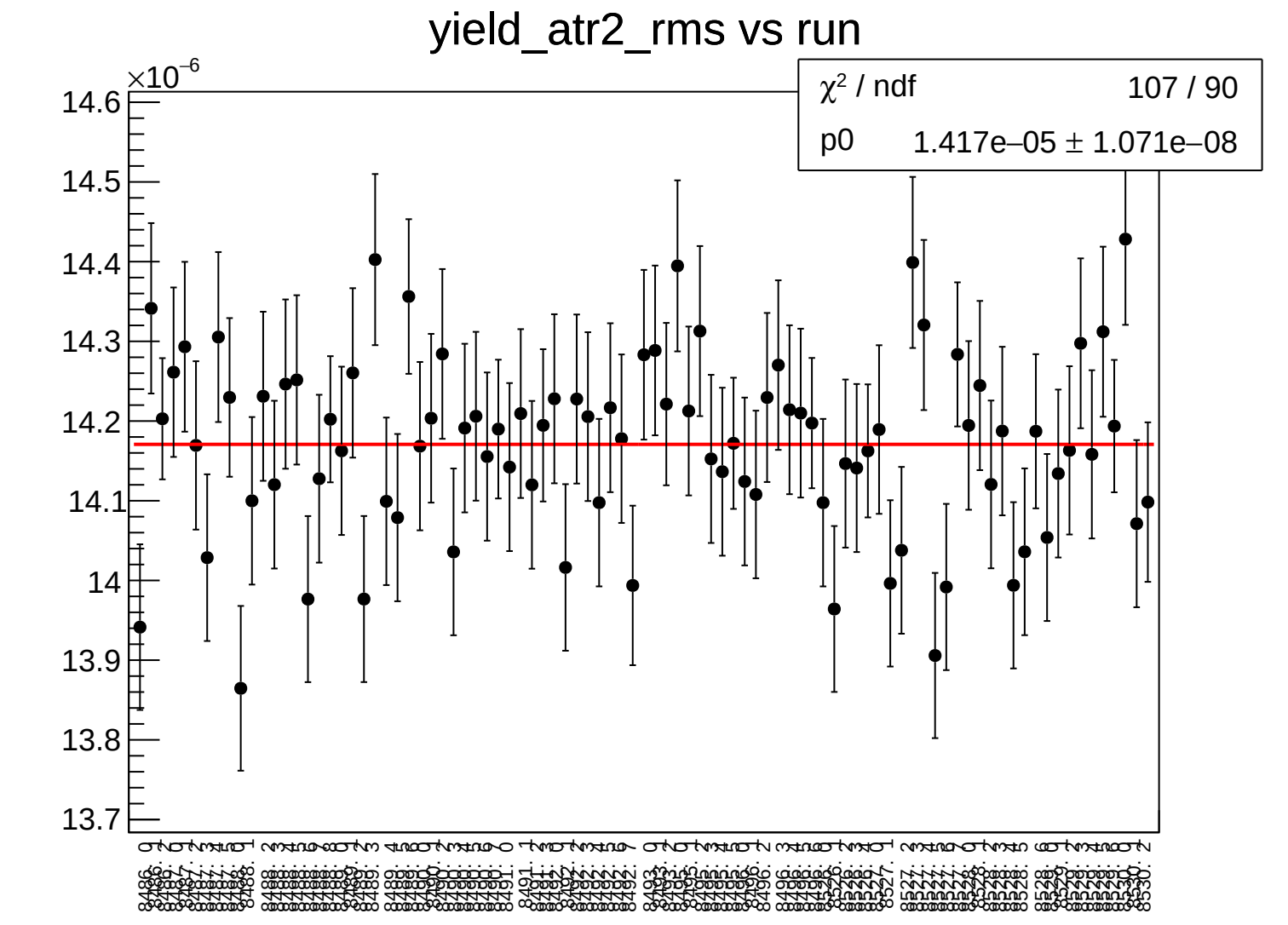

yield_atl2_rms vs run
×10⁻⁶
χ² / ndf 112.9 / 90
p0 1.089e−05 ± 8.235e−09
11.2
11.1
11
10.9
10.8
10.7
10.6
10.5
10.4

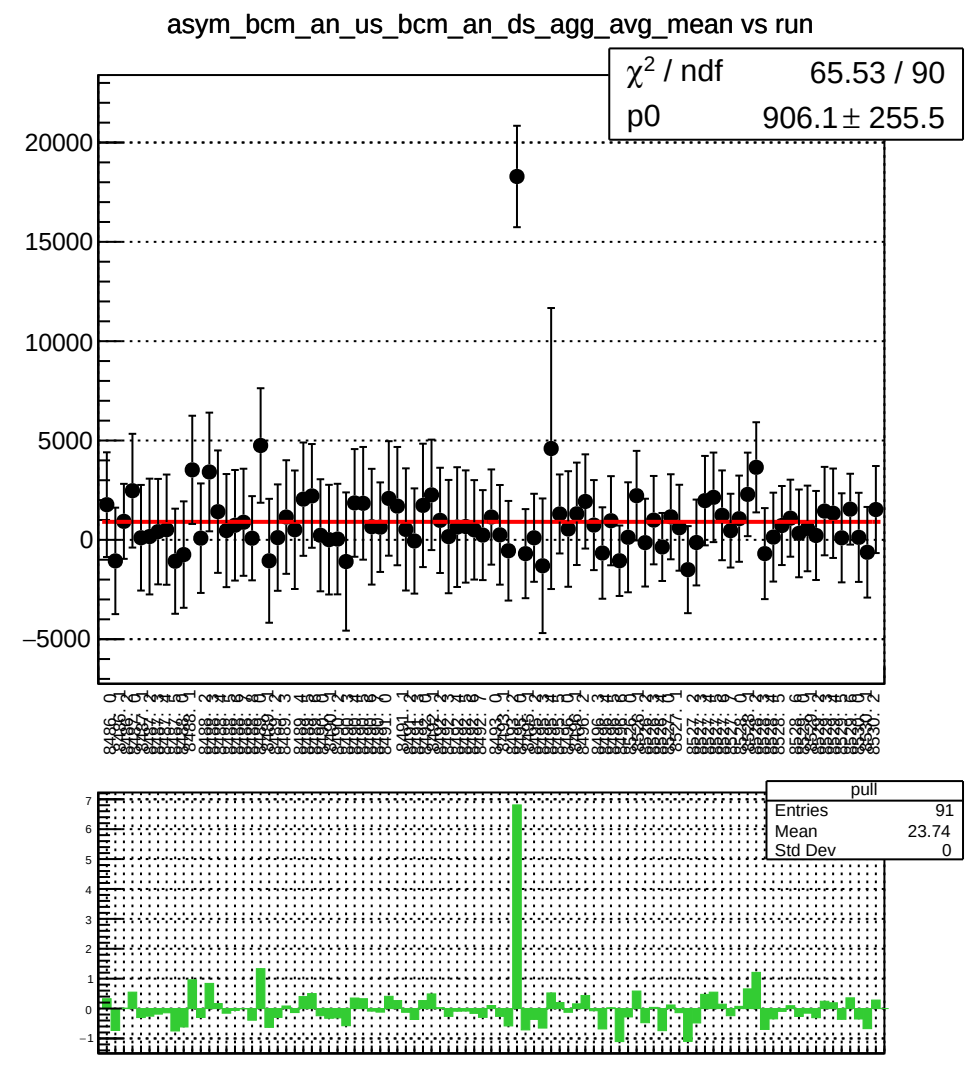

yield_atr1_mean vs run
χ² / ndf 1.613e+05 / 90
p0 0.0405 ± 1.979e−07
0.04075
0.0407
0.04065
0.0406
0.04055
0.0405
0.04045
0.0404
0.04035
0.0403
pull
Entries 91
Mean −3503
Std Dev 0
100
50
0
−50
−100

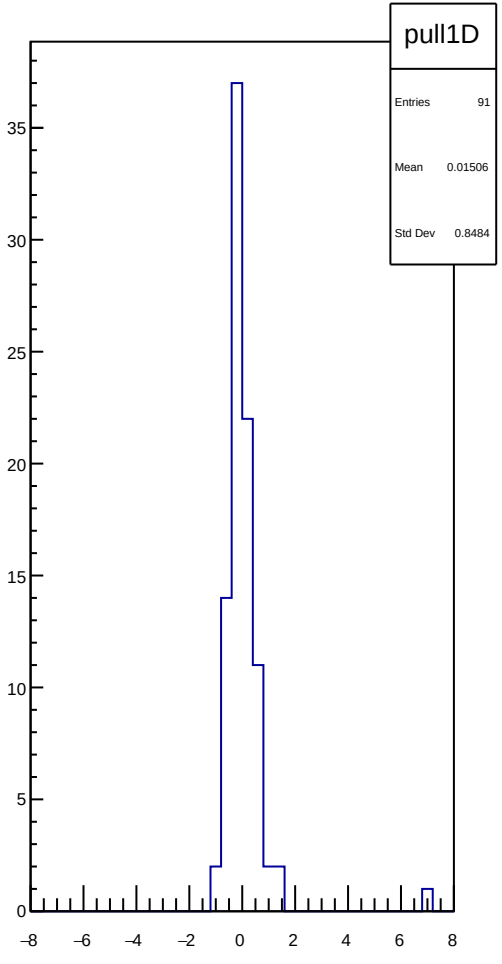

pull1D
Entries 91
Mean −0.7765
Std Dev 5.139
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

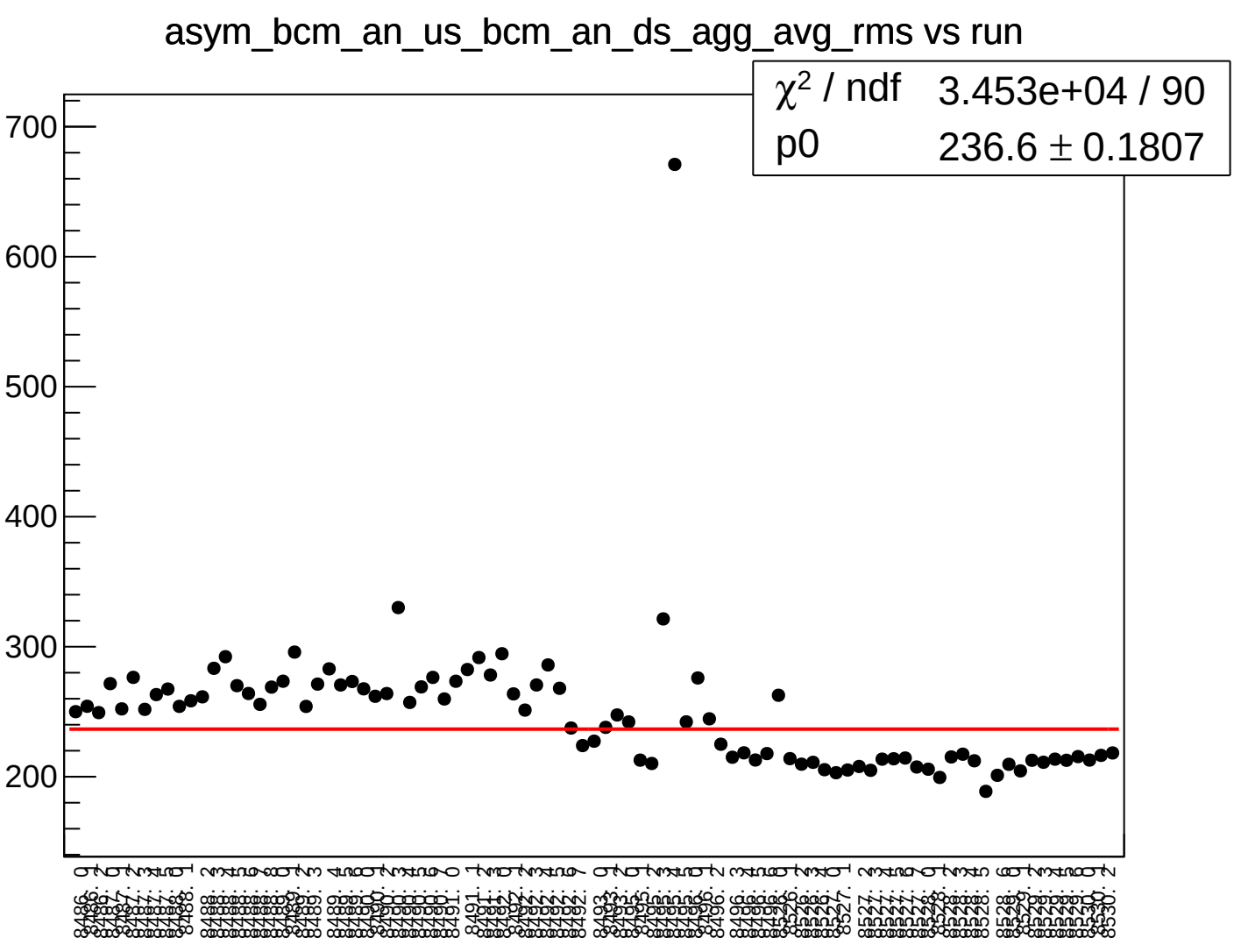

yield_atr1_rms vs run
×10⁻³
χ² / ndf 4.018e+04 / 90
p0 0.000183 ± 1.4e–07
0.45
0.4
0.35
0.3
0.25
0.2
0.15

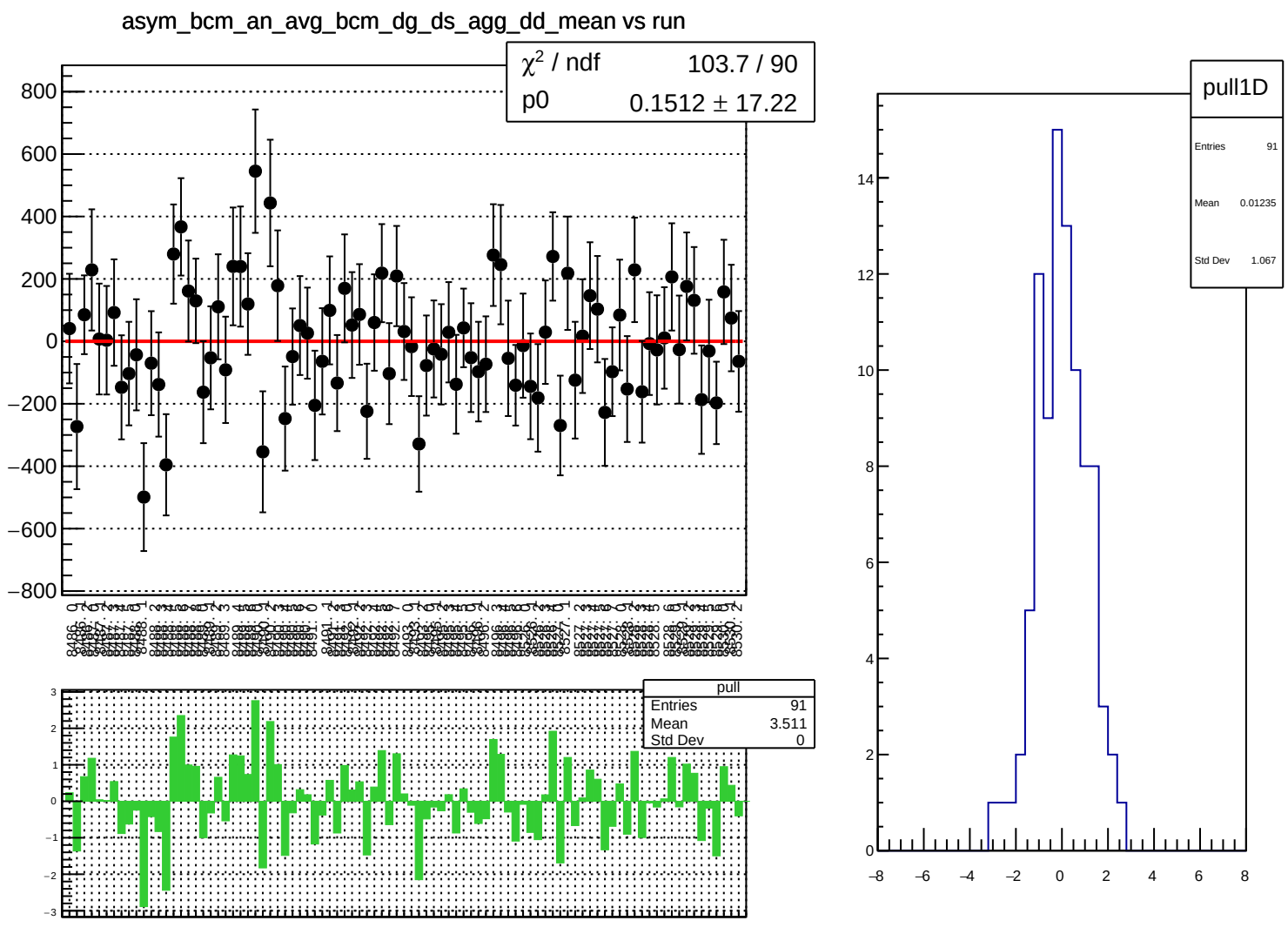

yield_atr2_mean vs run
×10⁻³
χ² / ndf 583.4 / 90
p0 0.000354 ± 1.515e−08
0.355
0.3545
0.354
0.3535
0.353
pull
Entries 91
Mean 213.8
Std Dev 0
pull1D
Entries 91
Mean −0.02561
Std Dev 2.532

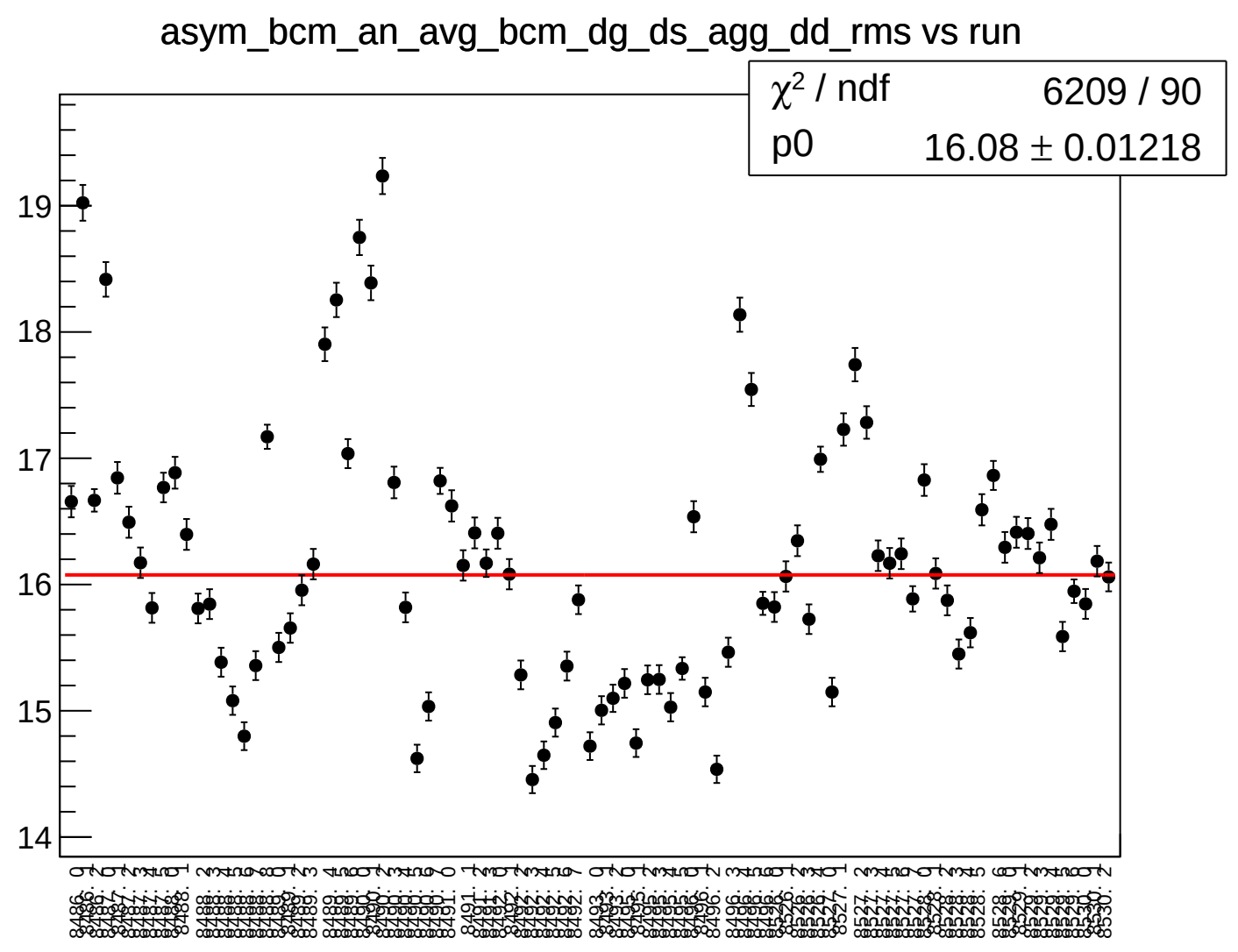

yield_atr2_rms vs run
×10⁻⁶
14.6
14.5
14.4
14.3
14.2
14.1
14
13.9
13.8
13.7
χ² / ndf 107 / 90
p0 1.417e−05 ± 1.071e−08

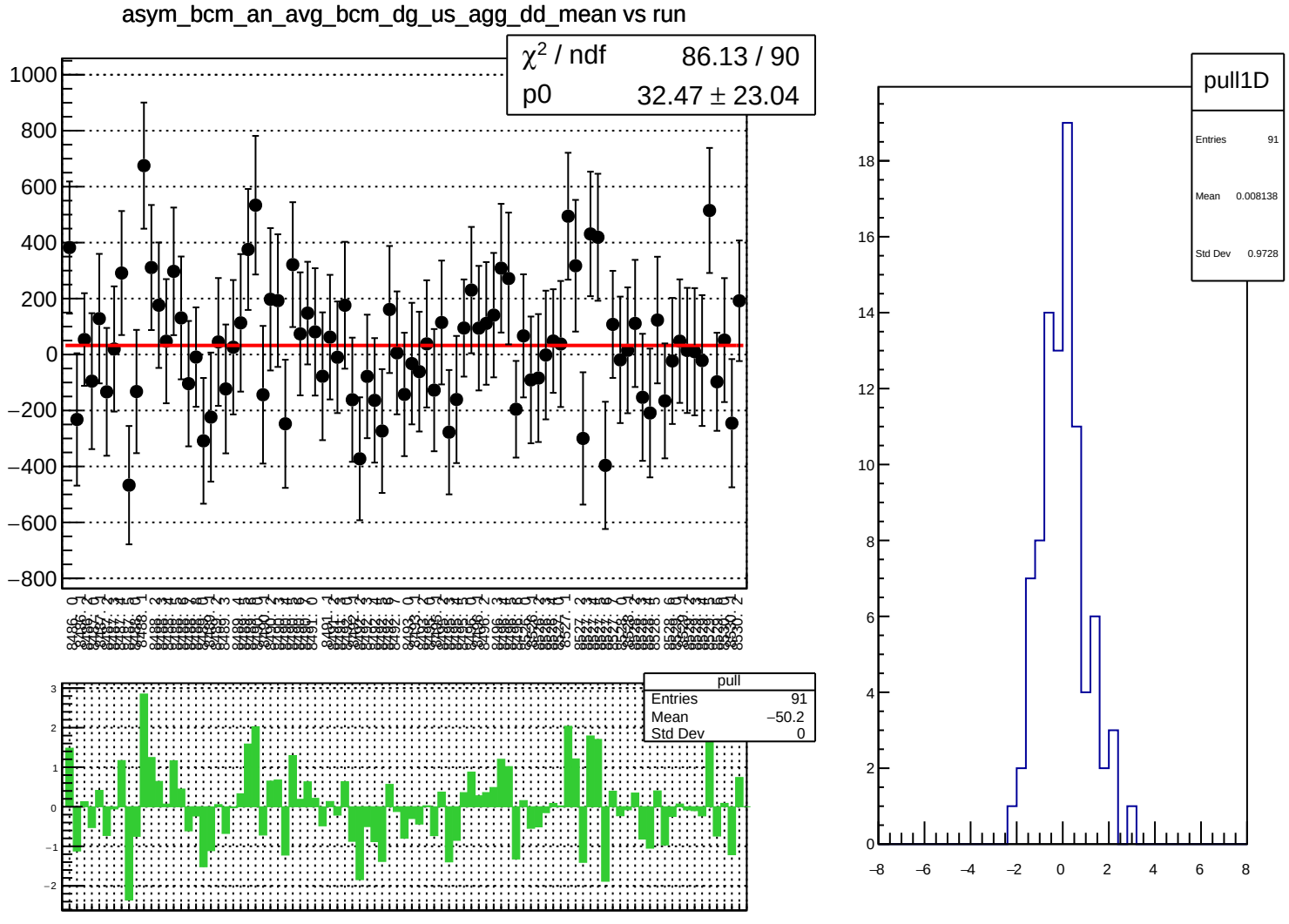

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 65.53 / 90
p0 906.1 ± 255.5
20000
15000
10000
5000
0
−5000
pull
Entries 91
Mean 23.74
Std Dev 0
7
6
5
4
3
2
1
0
−1

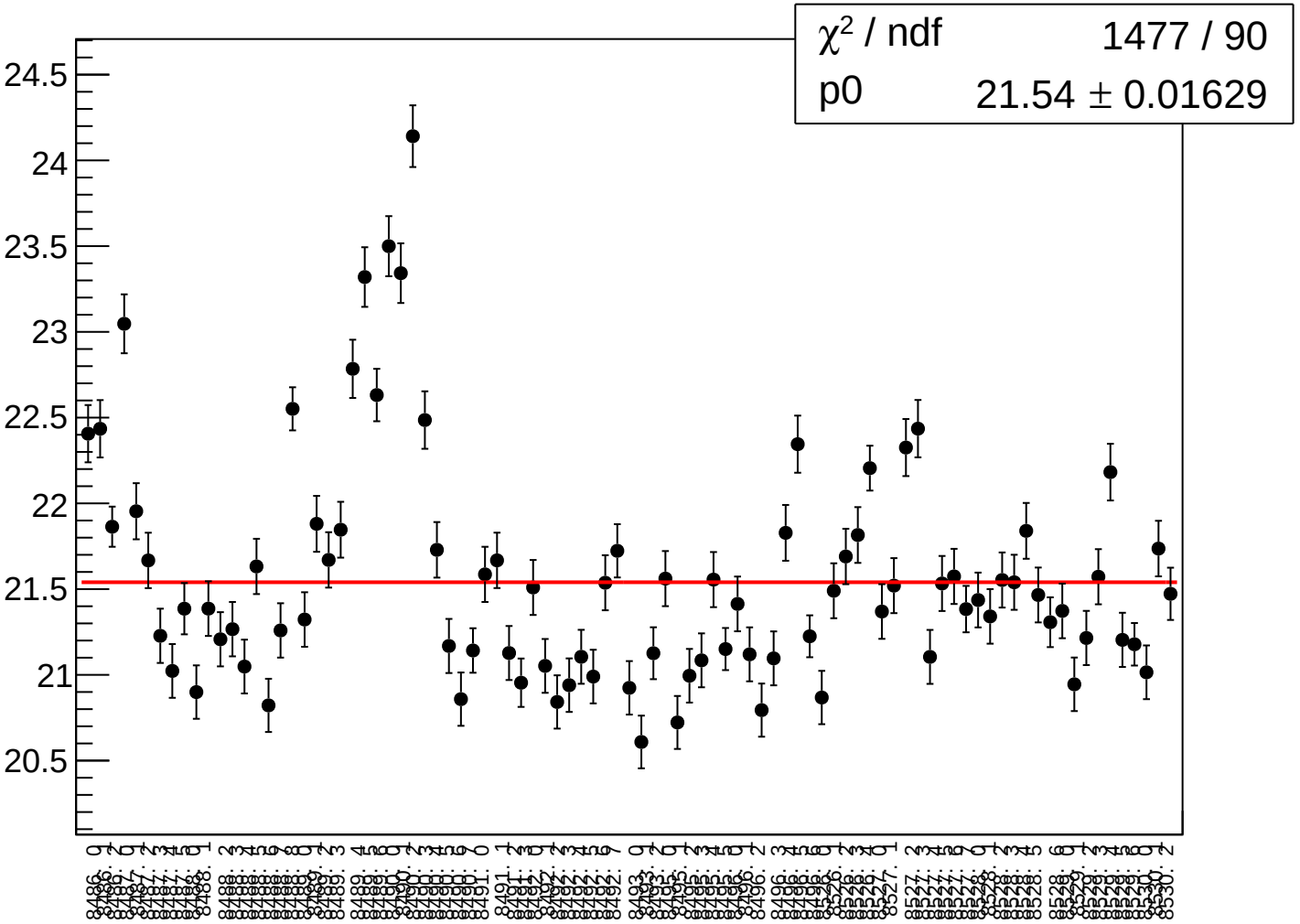

pull1D
Entries 91
Mean 0.01506
Std Dev 0.8484
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

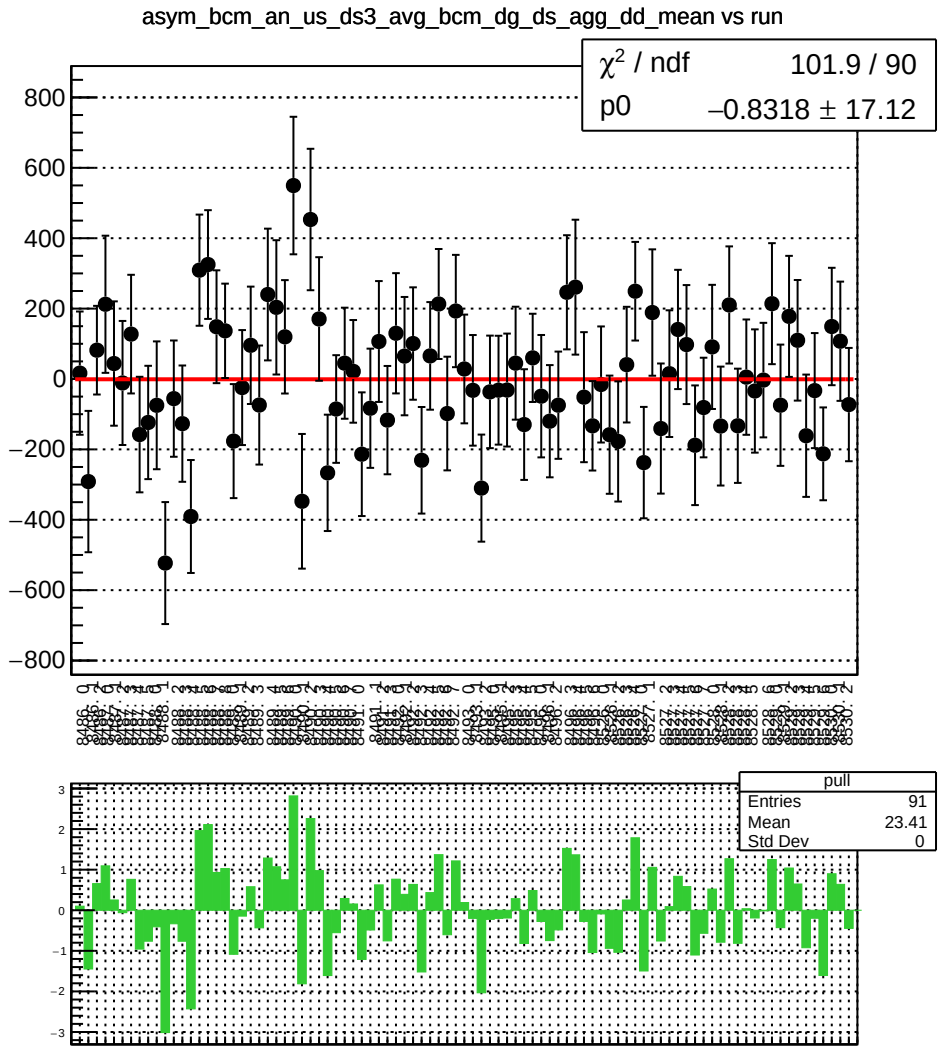

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3.453e+04 / 90
p0 236.6 ± 0.1807
700
600
500
400
300
200

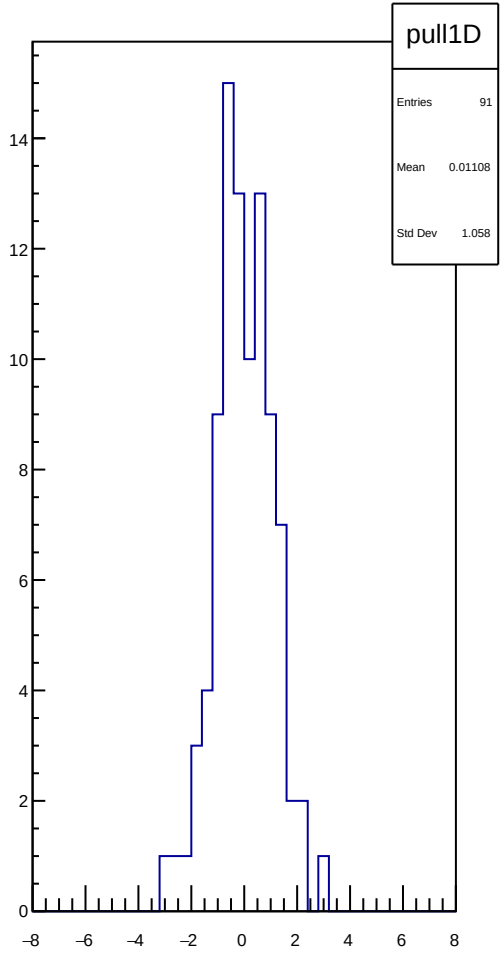

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 103.7 / 90
p0 0.1512 ± 17.22
pull
Entries 91
Mean 3.511
Std Dev 0
pull1D
Entries 91
Mean 0.01235
Std Dev 1.067

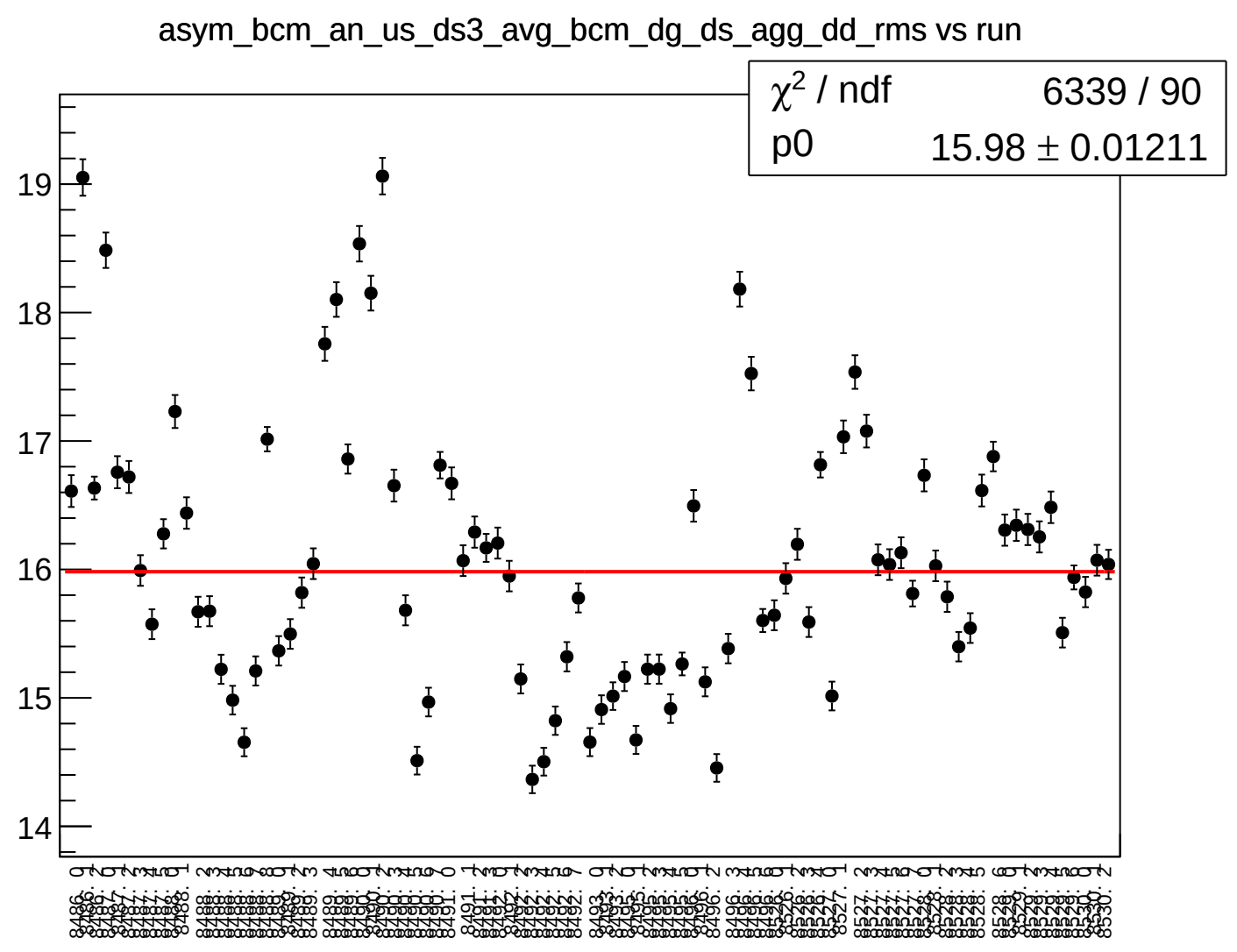

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 6209 / 90
p0 16.08 ± 0.01218
19
18
17
16
15
14

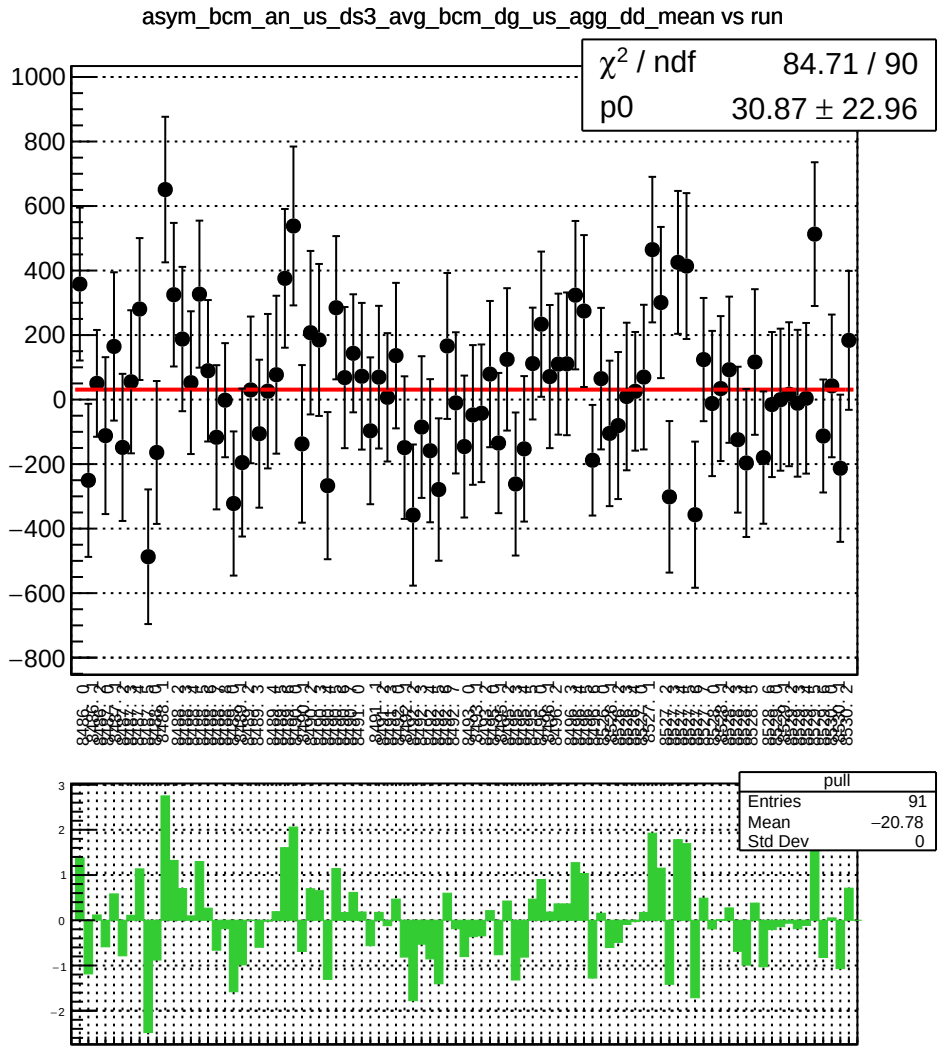

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 86.13 / 90
p0 32.47 ± 23.04
pull
Entries 91
Mean −50.2
Std Dev 0
pull1D
Entries 91
Mean 0.008138
Std Dev 0.9728

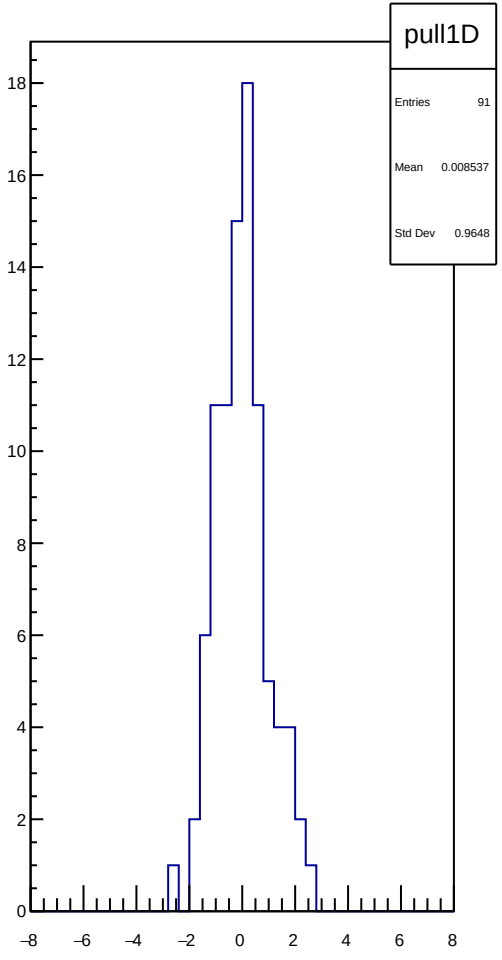

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1477 / 90
p0 21.54 ± 0.01629
24.5
24
23.5
23
22.5
22
21.5
21
20.5

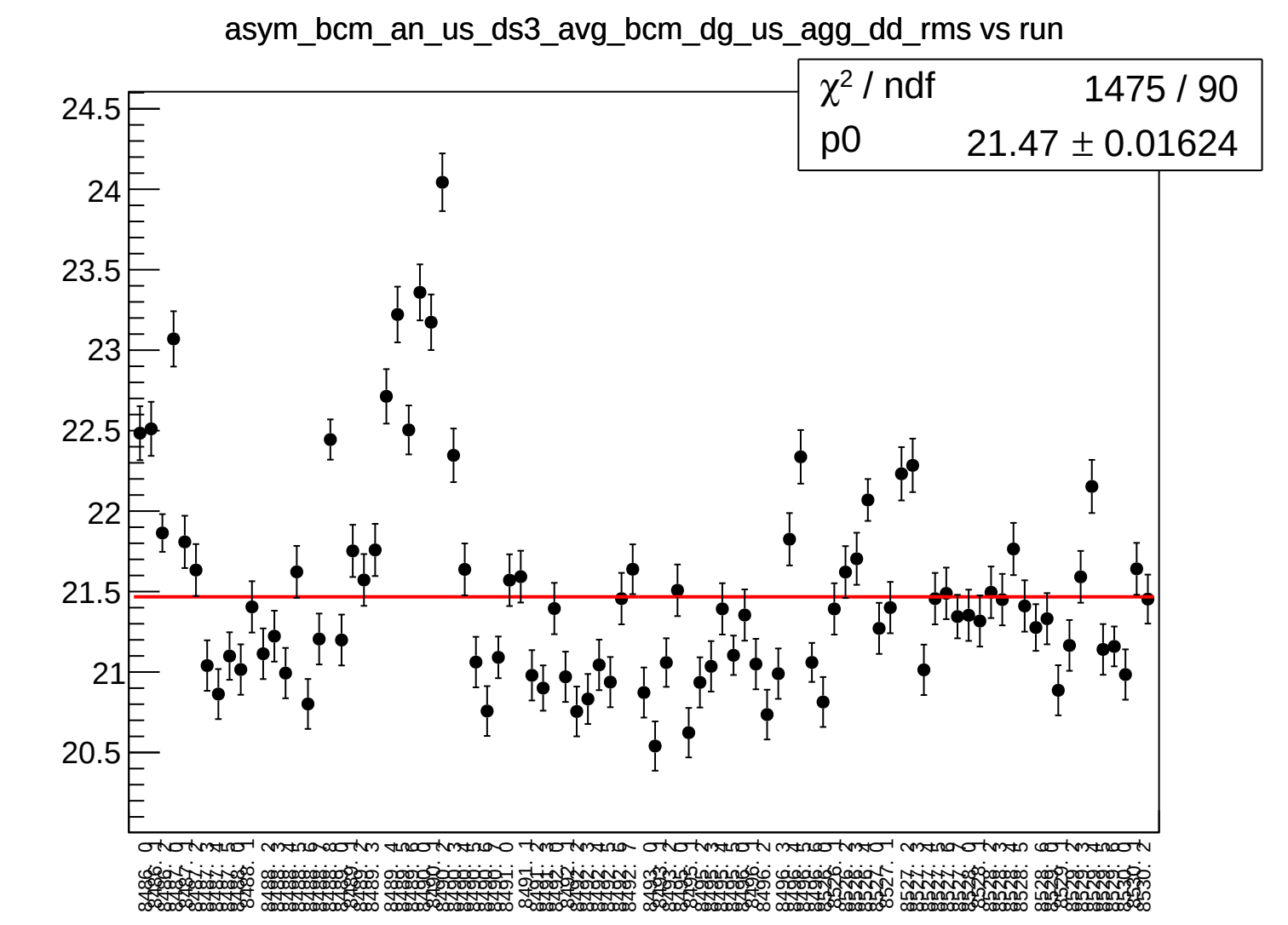

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 101.9 / 90
p0 −0.8318 ± 17.12
pull
Entries 91
Mean 23.41
Std Dev 0

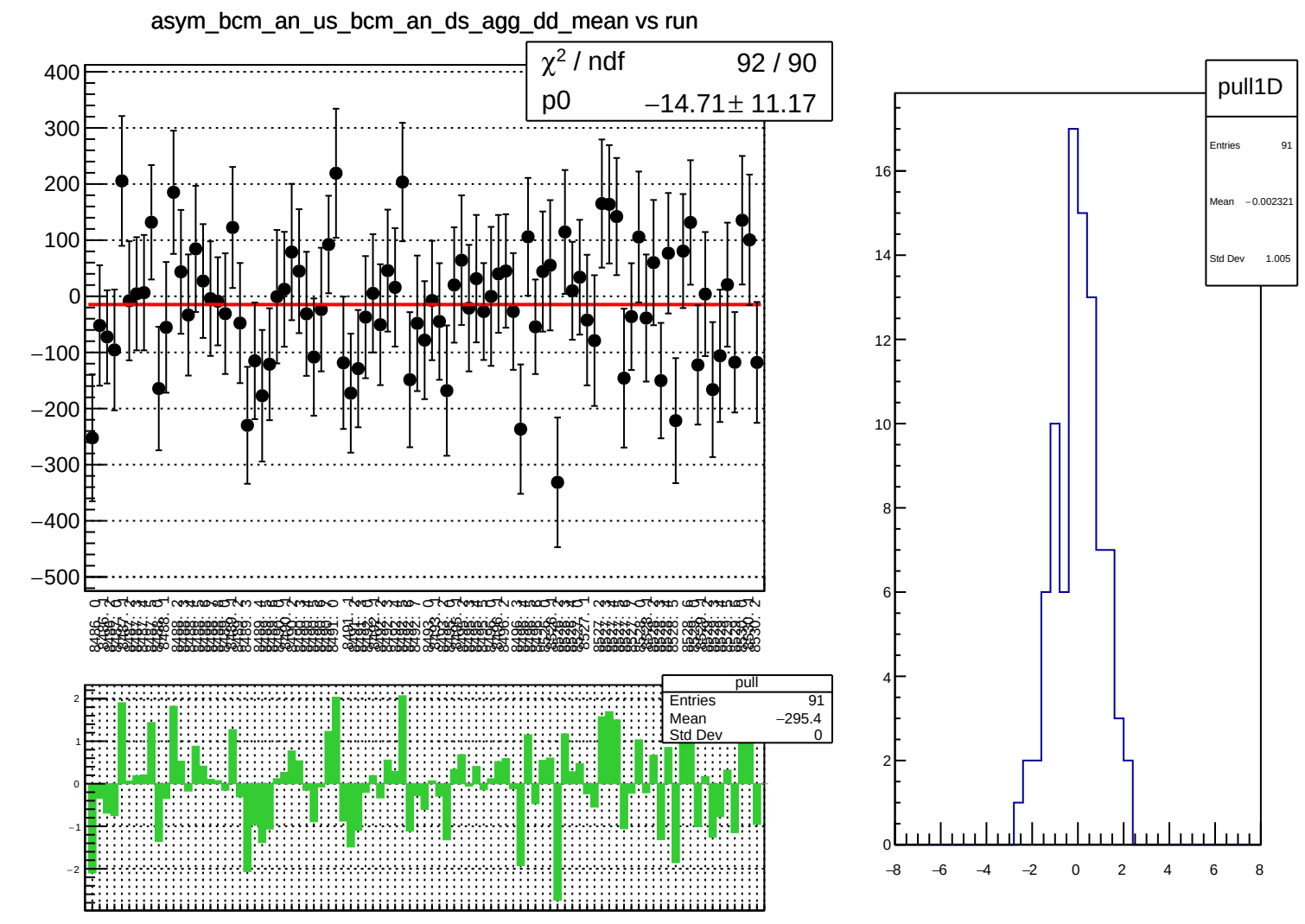

pull1D
Entries 91
Mean 0.01108
Std Dev 1.058

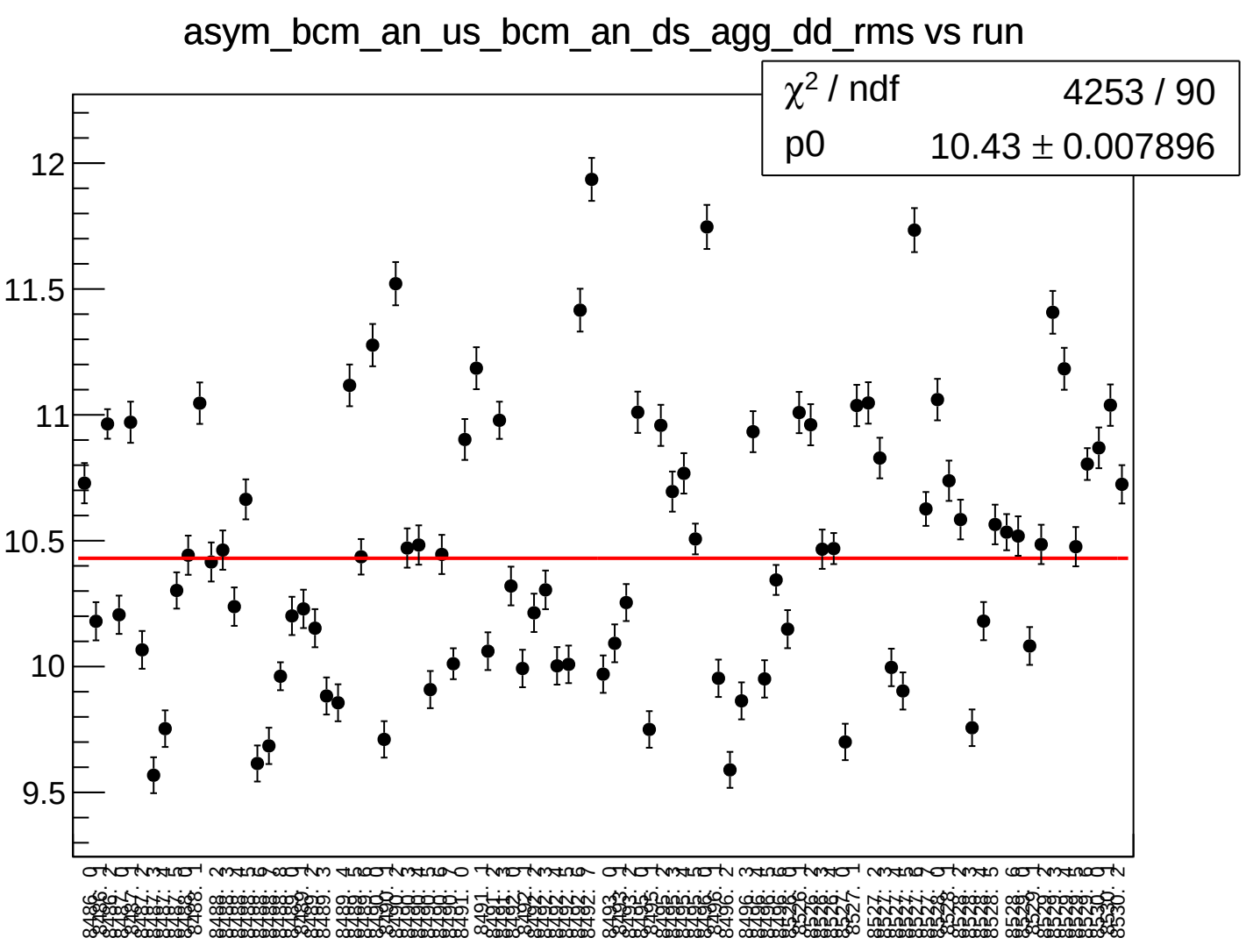

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 6339 / 90
p0 15.98 ± 0.01211
19
18
17
16
15
14

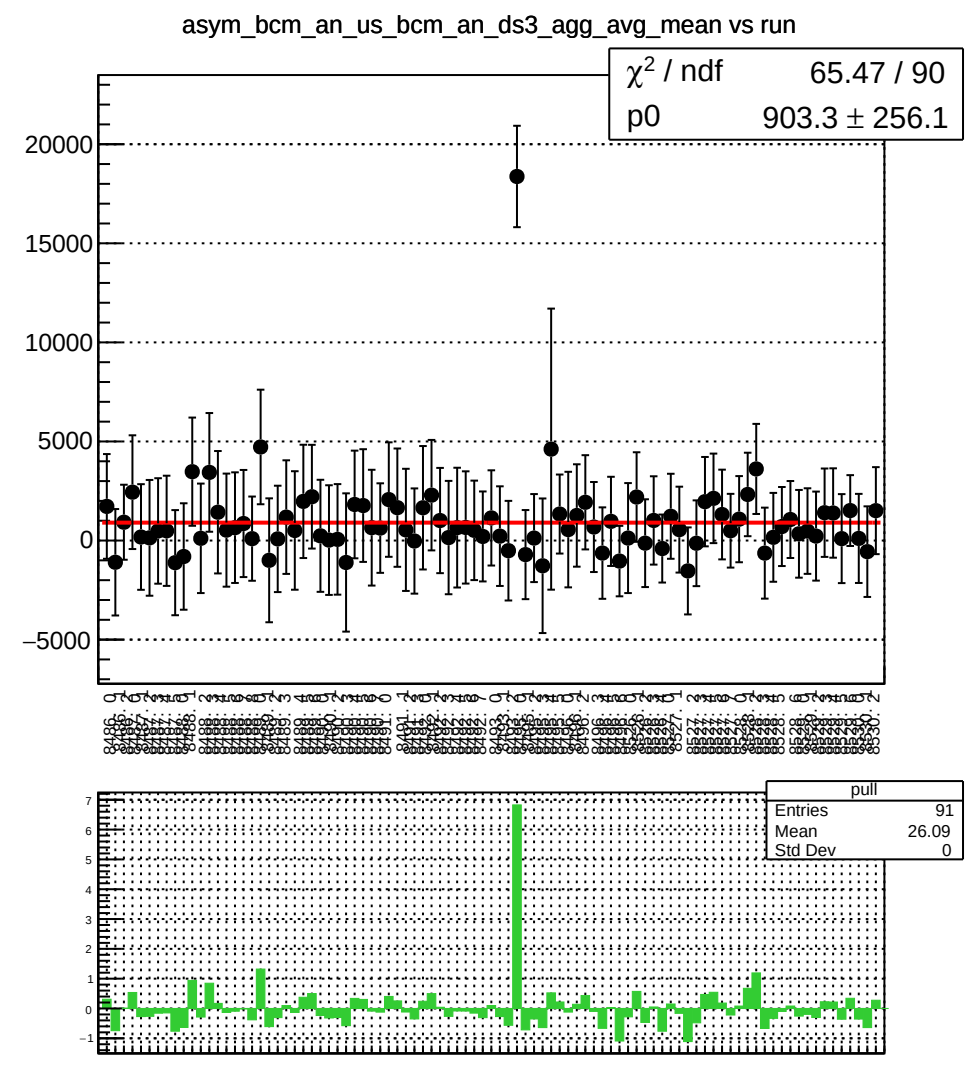

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 84.71 / 90
p0 30.87 ± 22.96
pull
Entries 91
Mean −20.78
Std Dev 0

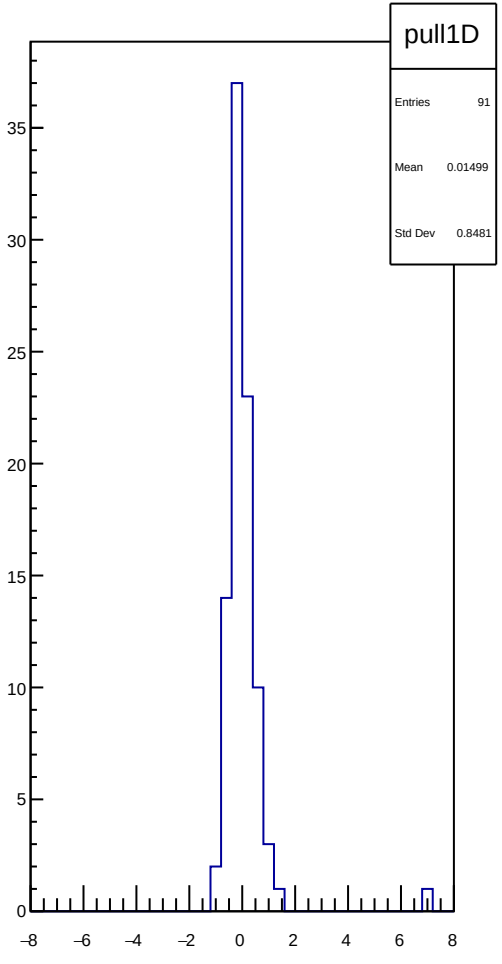

pull1D
Entries 91
Mean 0.008537
Std Dev 0.9648

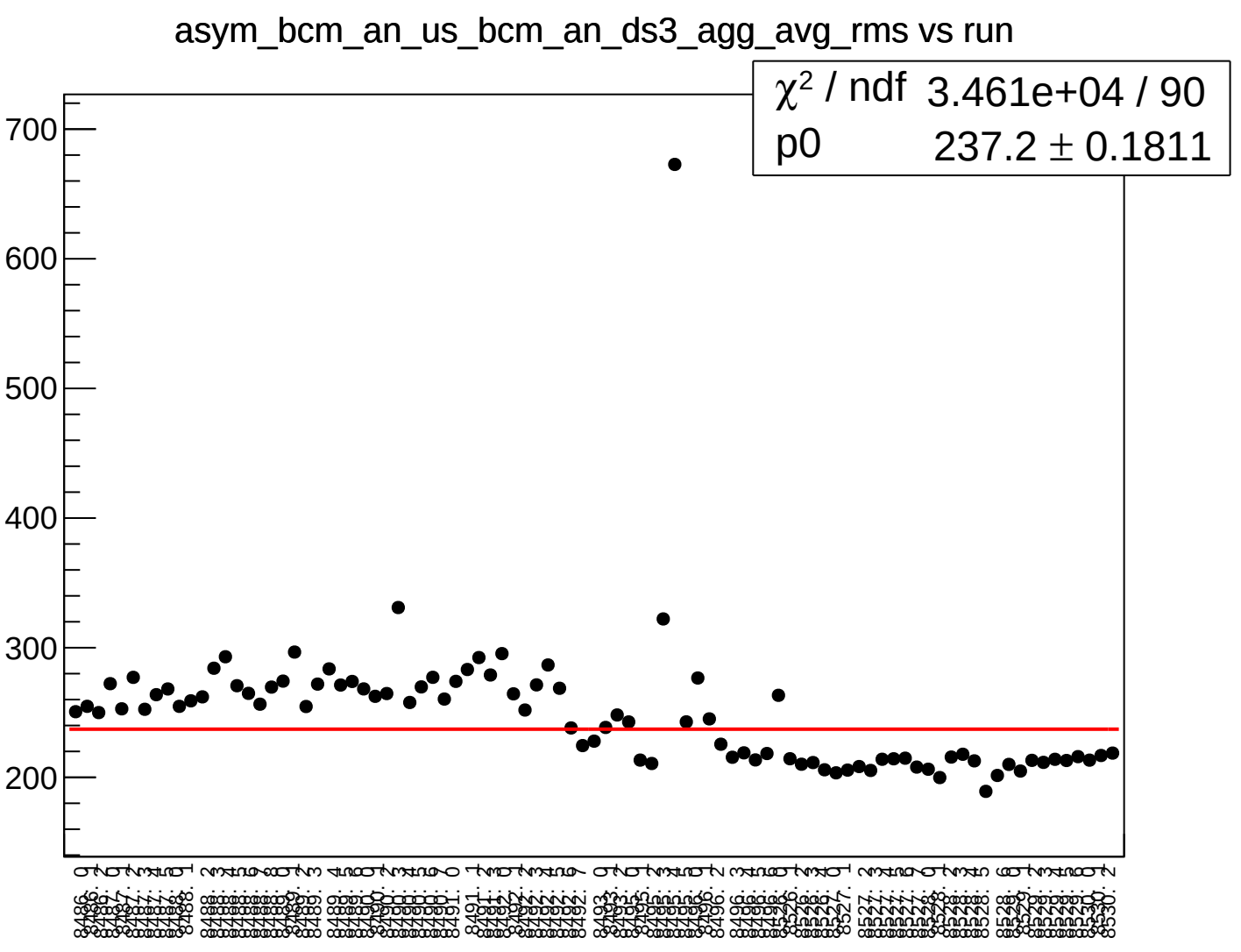

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1475 / 90
p0 21.47 ± 0.01624
24.5
24
23.5
23
22.5
22
21.5
21
20.5

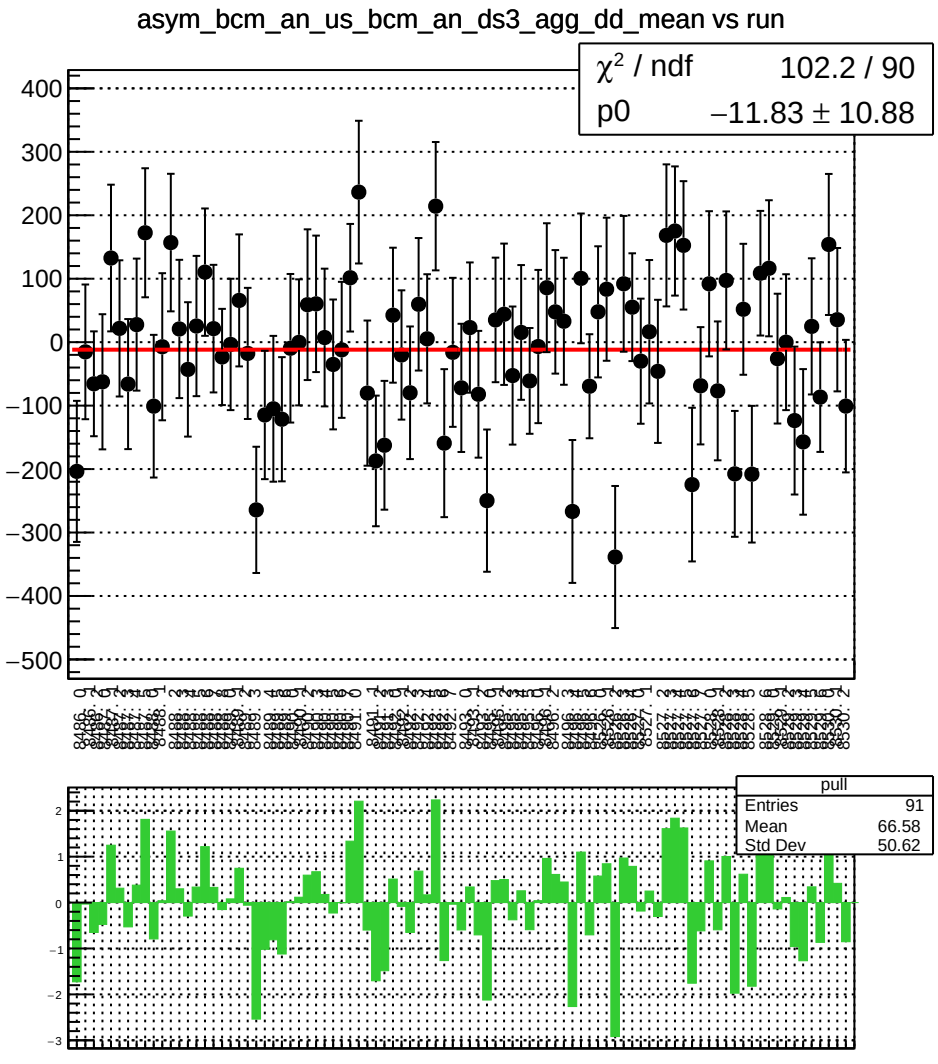

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 92 / 90
p0 −14.71 ± 11.17
pull
Entries 91
Mean −295.4
Std Dev 0
pull1D
Entries 91
Mean −0.002321
Std Dev 1.005

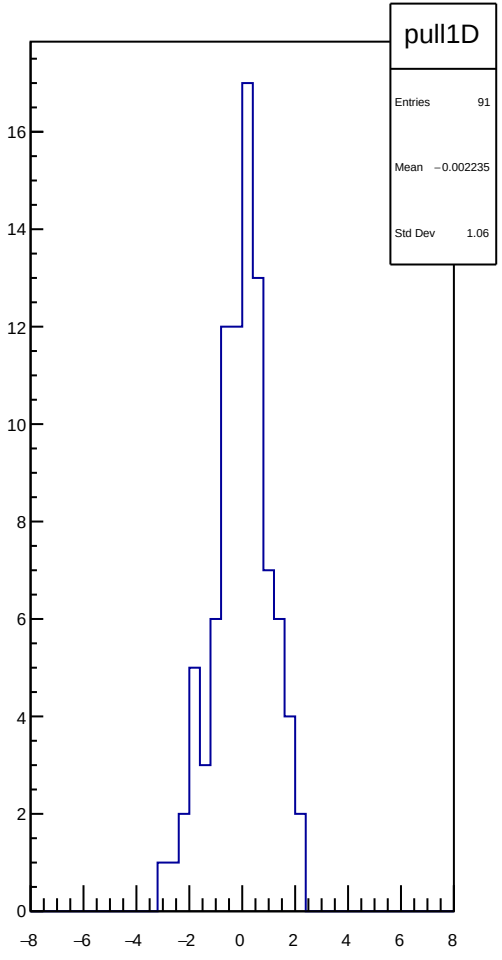

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 4253 / 90
p0 10.43 ± 0.007896
12
11.5
11
10.5
10
9.5

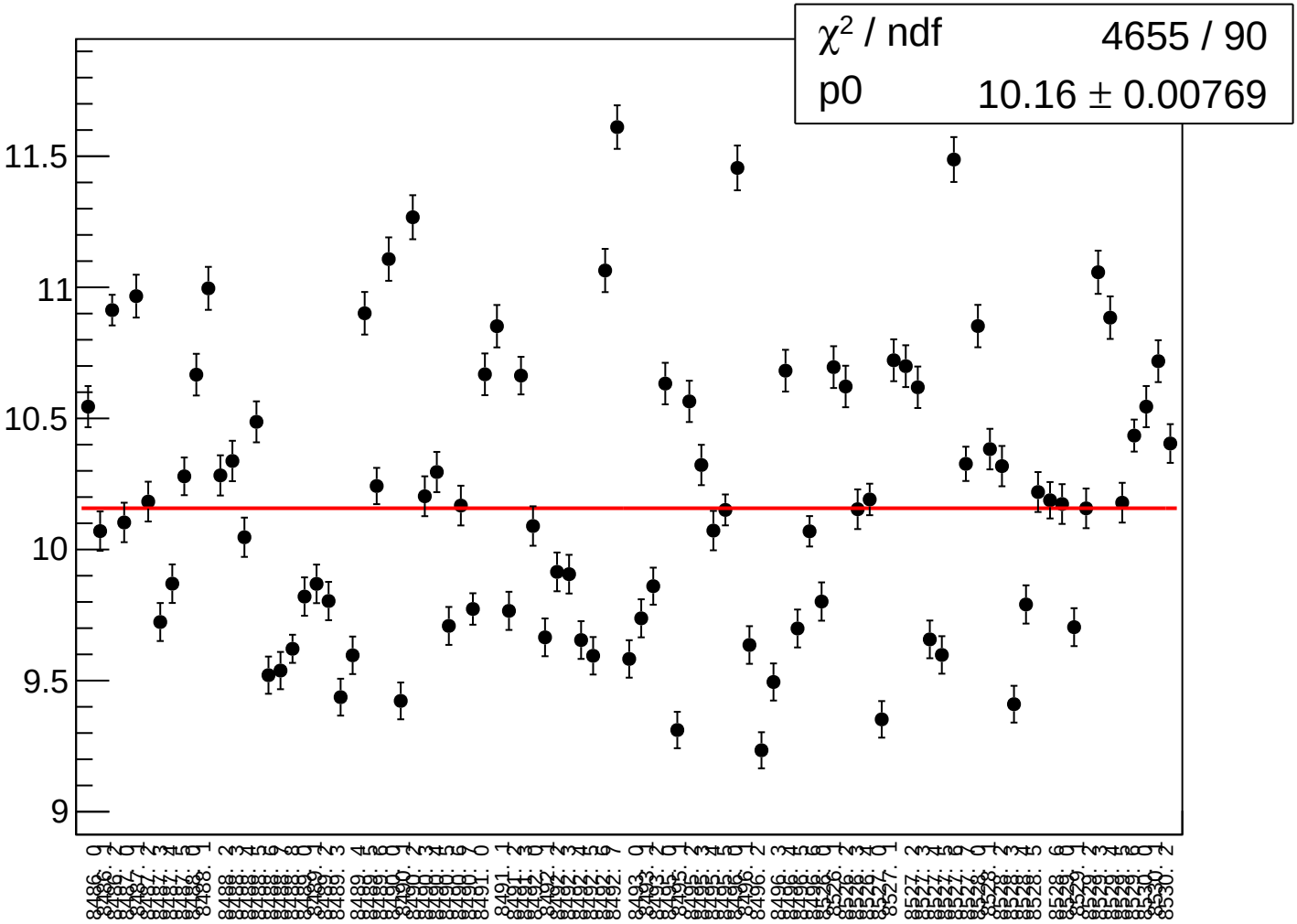

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 65.47 / 90
p0 903.3 ± 256.1
20000
15000
10000
5000
0
−5000
pull
Entries 91
Mean 26.09
Std Dev 0
7
6
5
4
3
2
1
0
−1

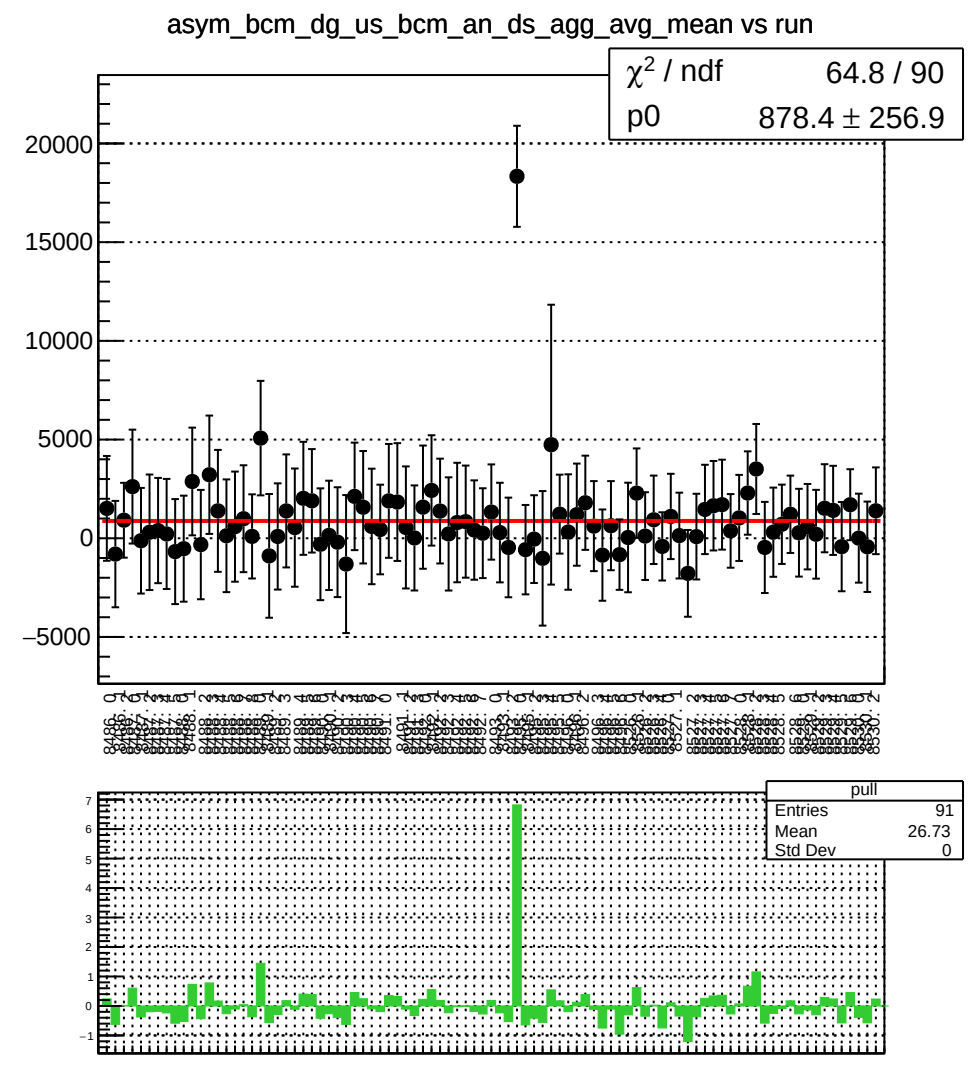

pull1D
Entries 91
Mean 0.01499
Std Dev 0.8481
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

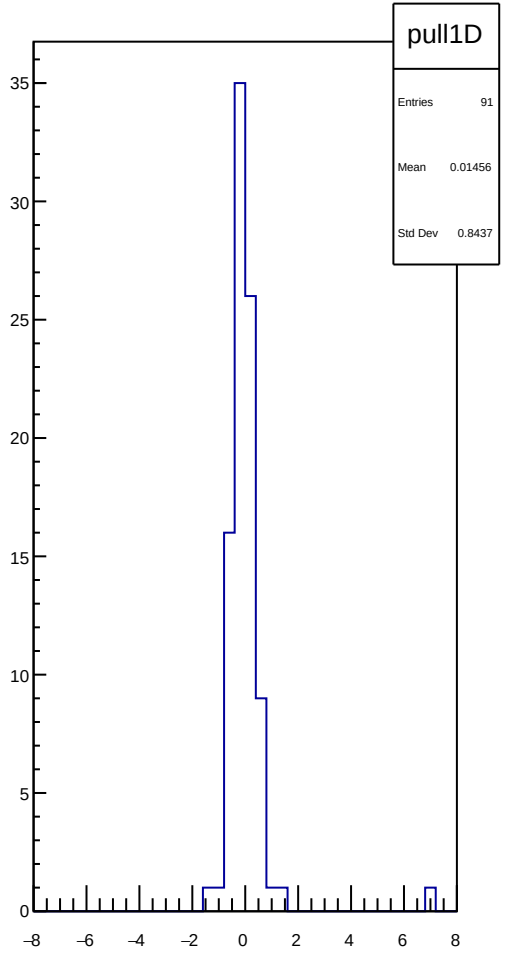

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 3.461e+04 / 90
p0 237.2 ± 0.1811
700
600
500
400
300
200

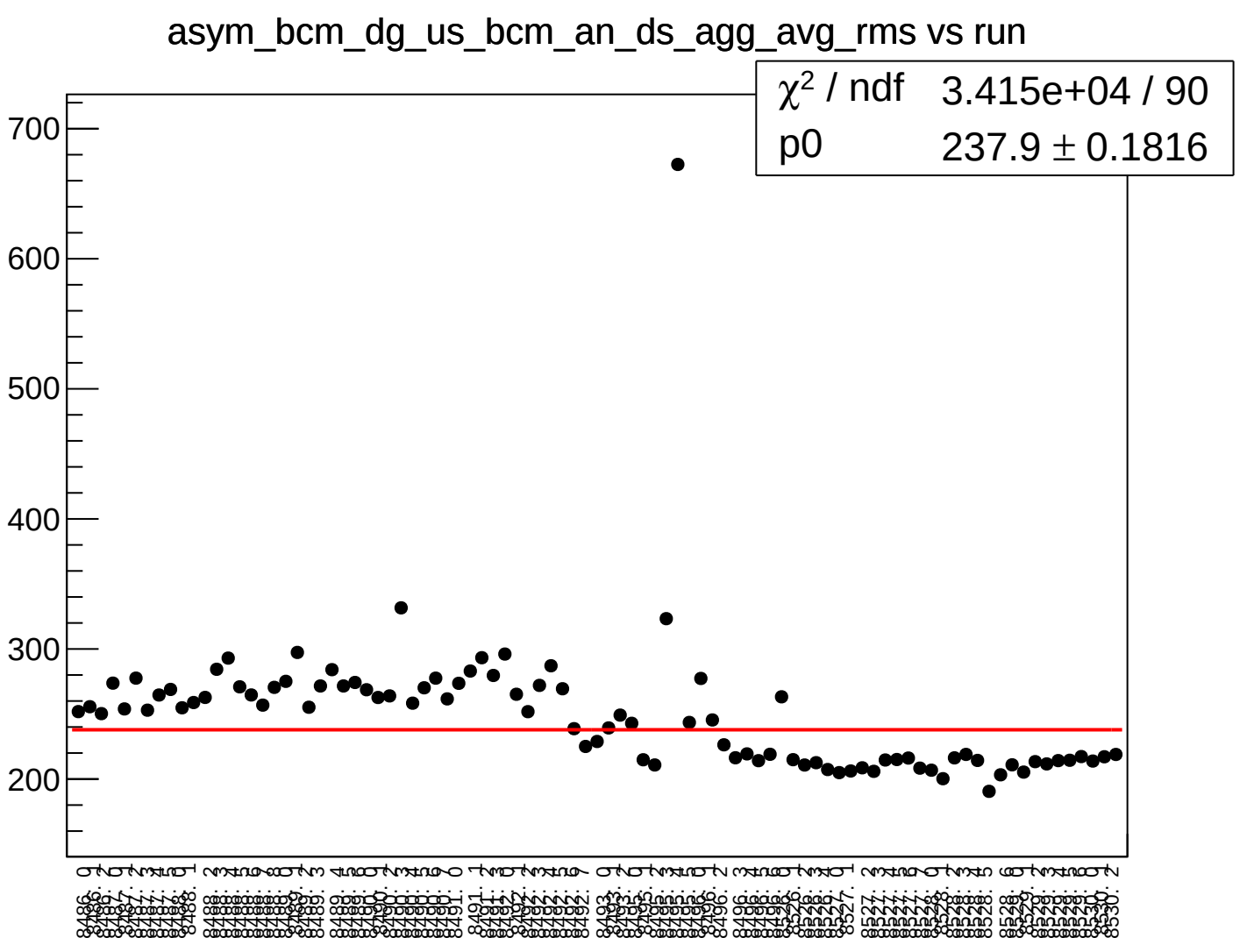

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 102.2 / 90
p0 −11.83 ± 10.88
pull
Entries 91
Mean 66.58
Std Dev 50.62

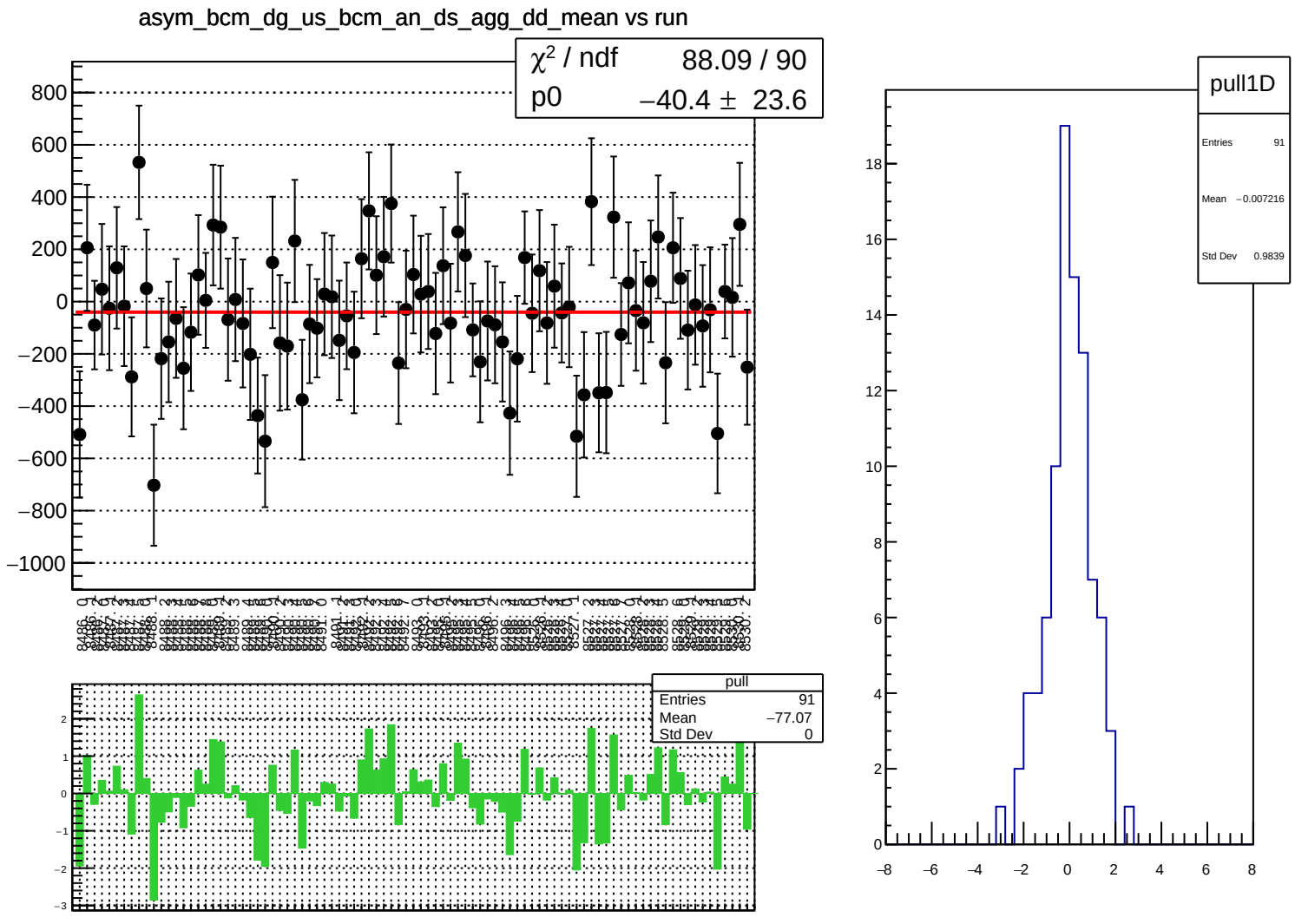

pull1D
Entries 91
Mean −0.002235
Std Dev 1.06

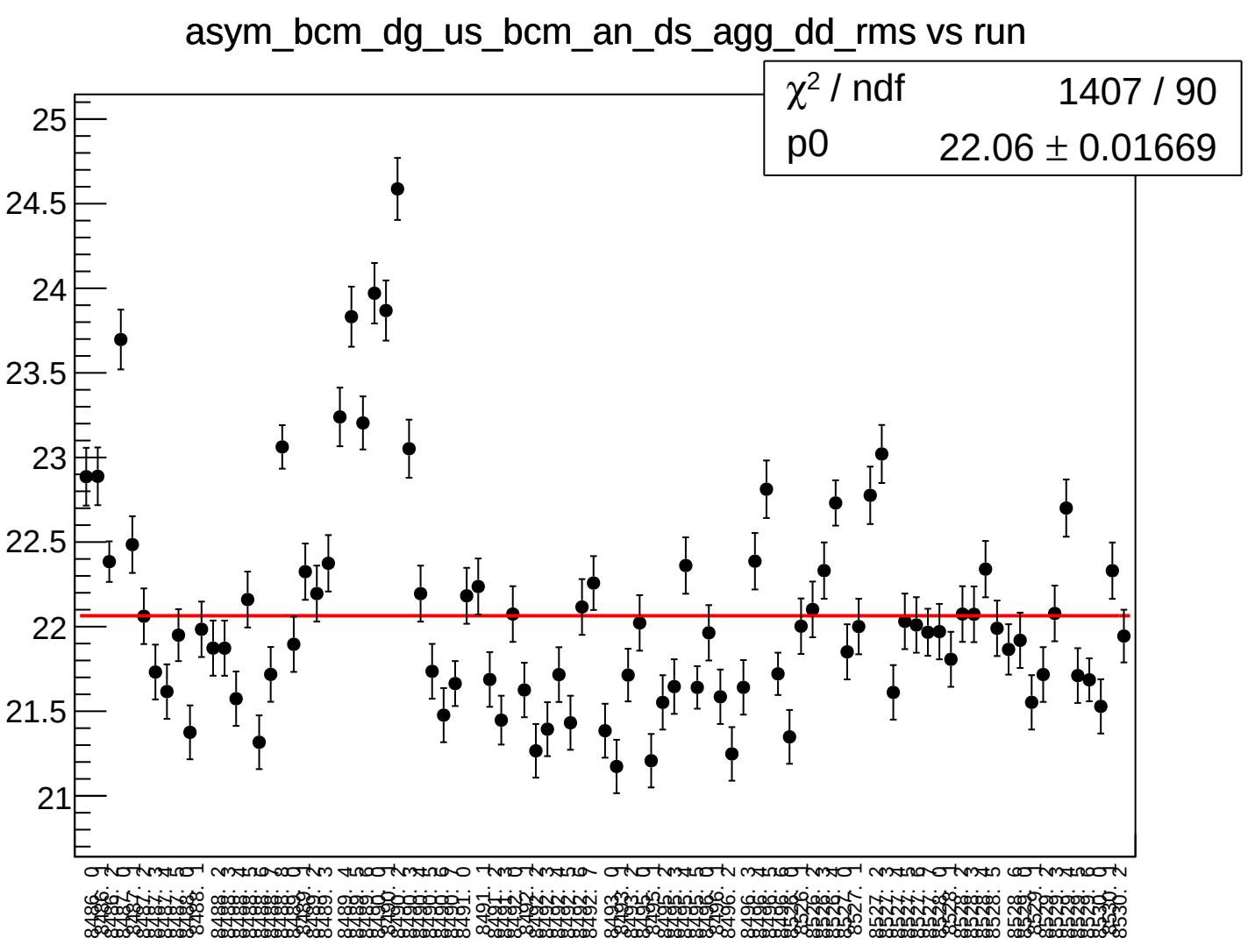

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 4655 / 90
p0 10.16 ± 0.00769
11.5
11
10.5
10
9.5
9

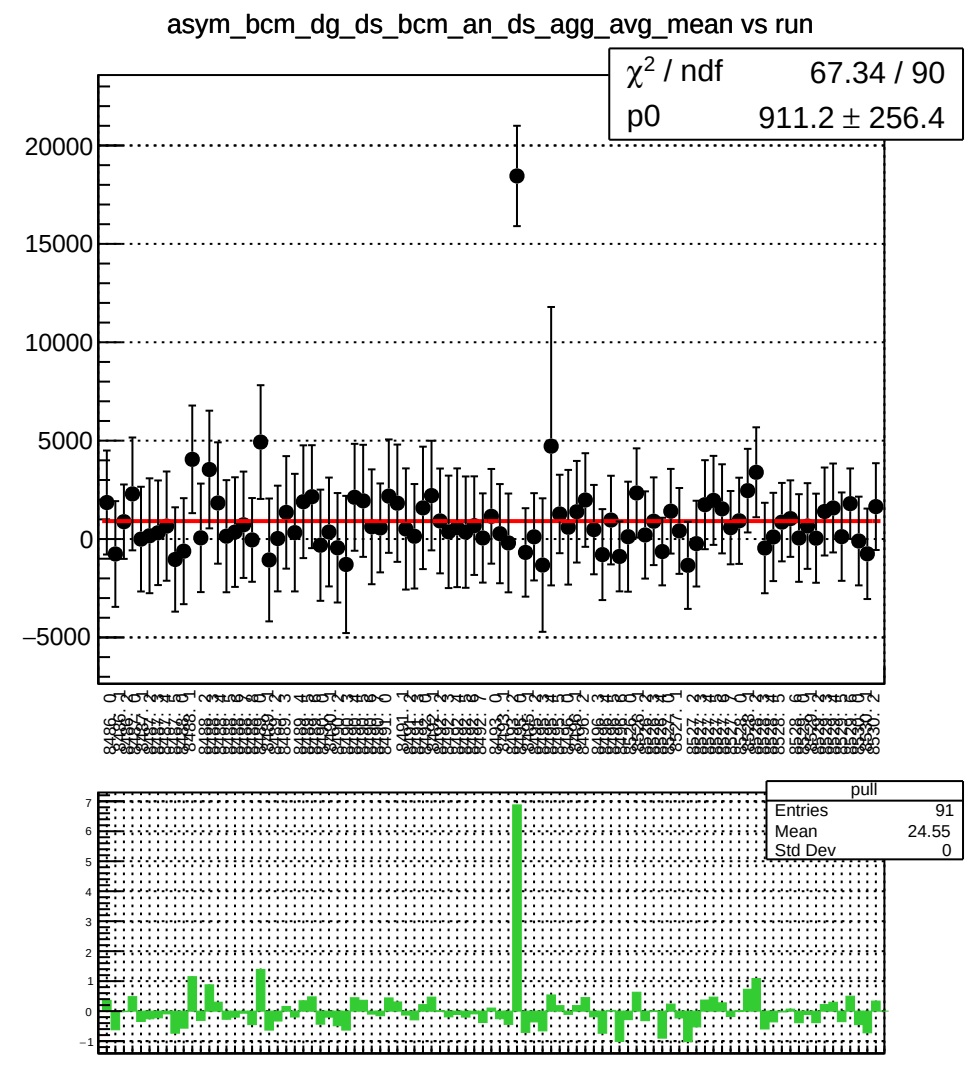

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 64.8 / 90
p0 878.4 ± 256.9
20000
15000
10000
5000
0
−5000
pull
Entries 91
Mean 26.73
Std Dev 0
7
6
5
4
3
2
1
0
−1

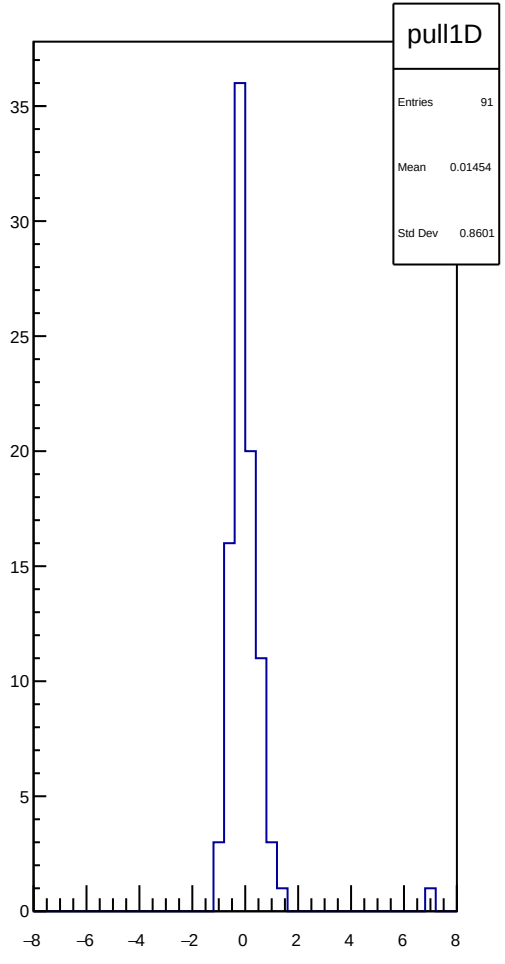

pull1D
Entries 91
Mean 0.01456
Std Dev 0.8437
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

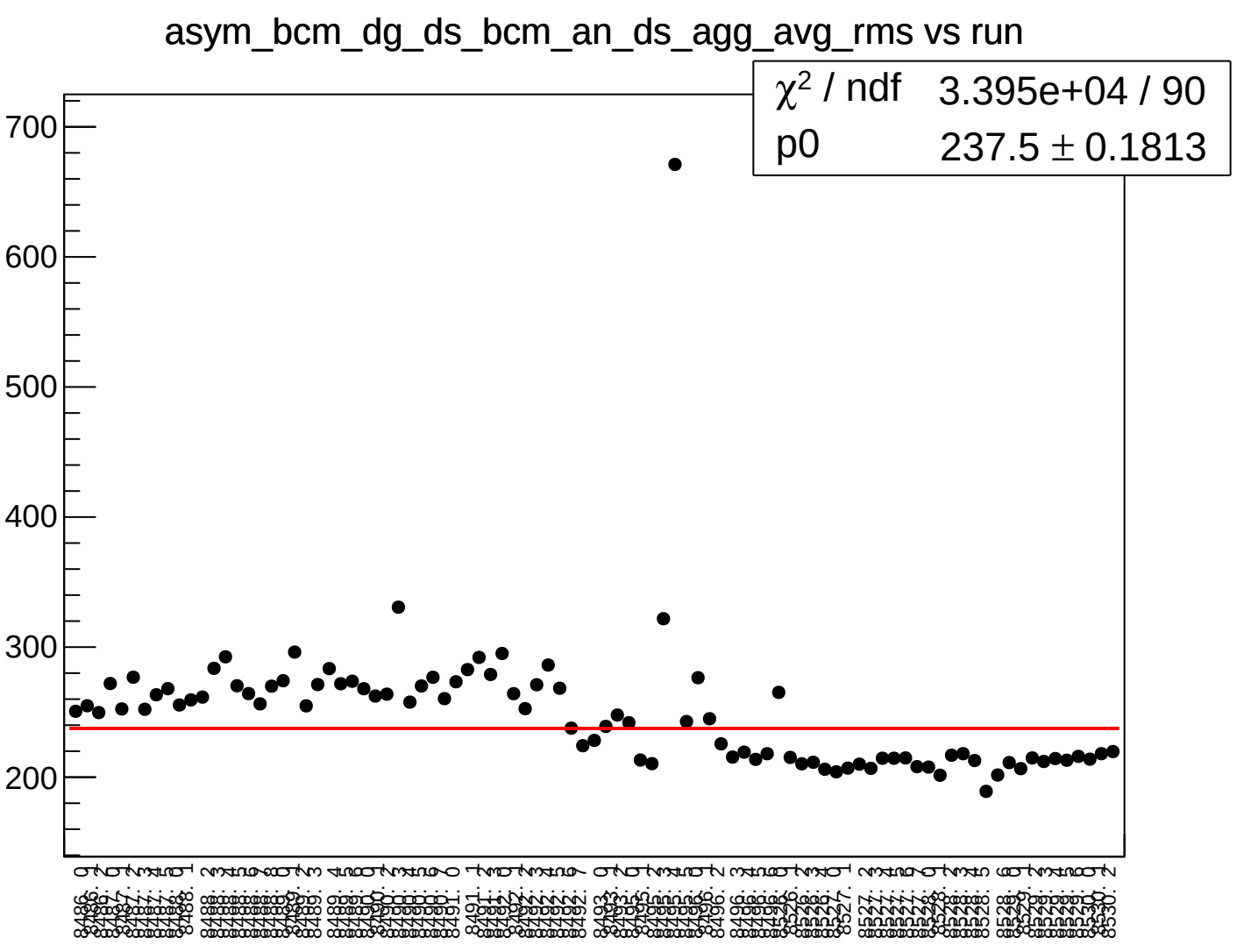

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3.415e+04 / 90
p0 237.9 ± 0.1816
700
600
500
400
300
200

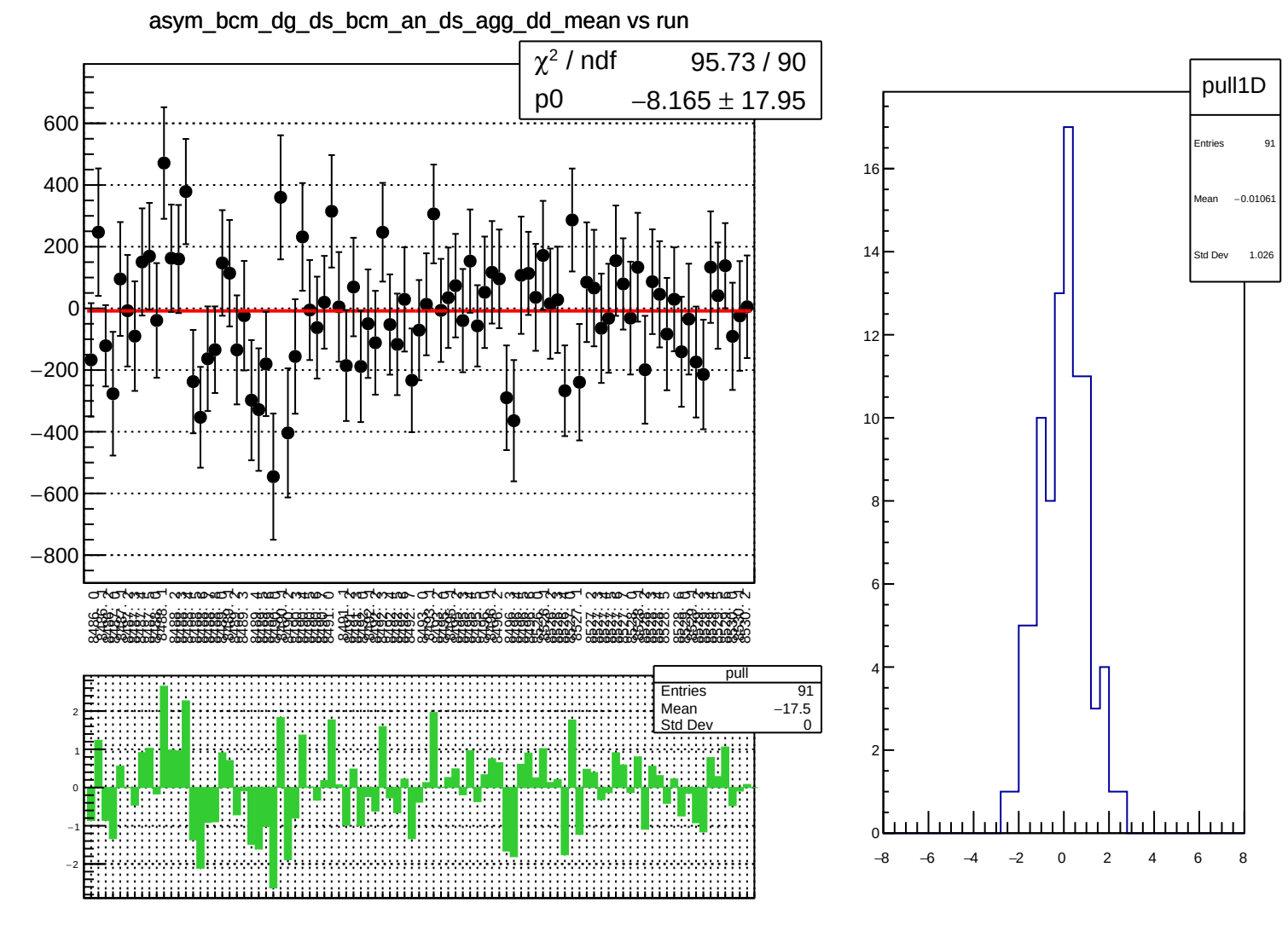

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 88.09 / 90
p0 −40.4 ± 23.6
pull
Entries 91
Mean −77.07
Std Dev 0
pull1D
Entries 91
Mean −0.007216
Std Dev 0.9839

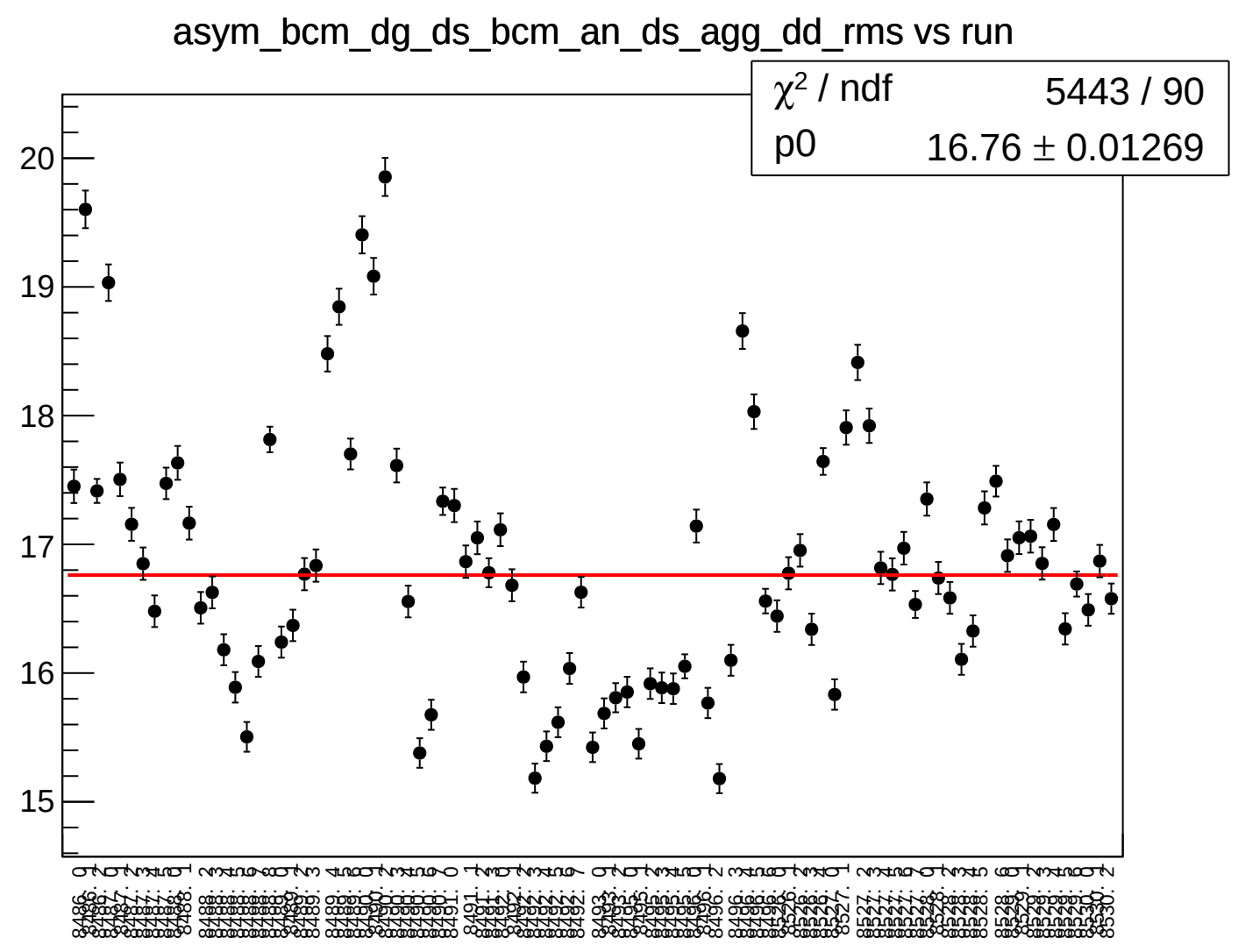

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1407 / 90
p0 22.06 ± 0.01669
25
24.5
24
23.5
23
22.5
22
21.5
21

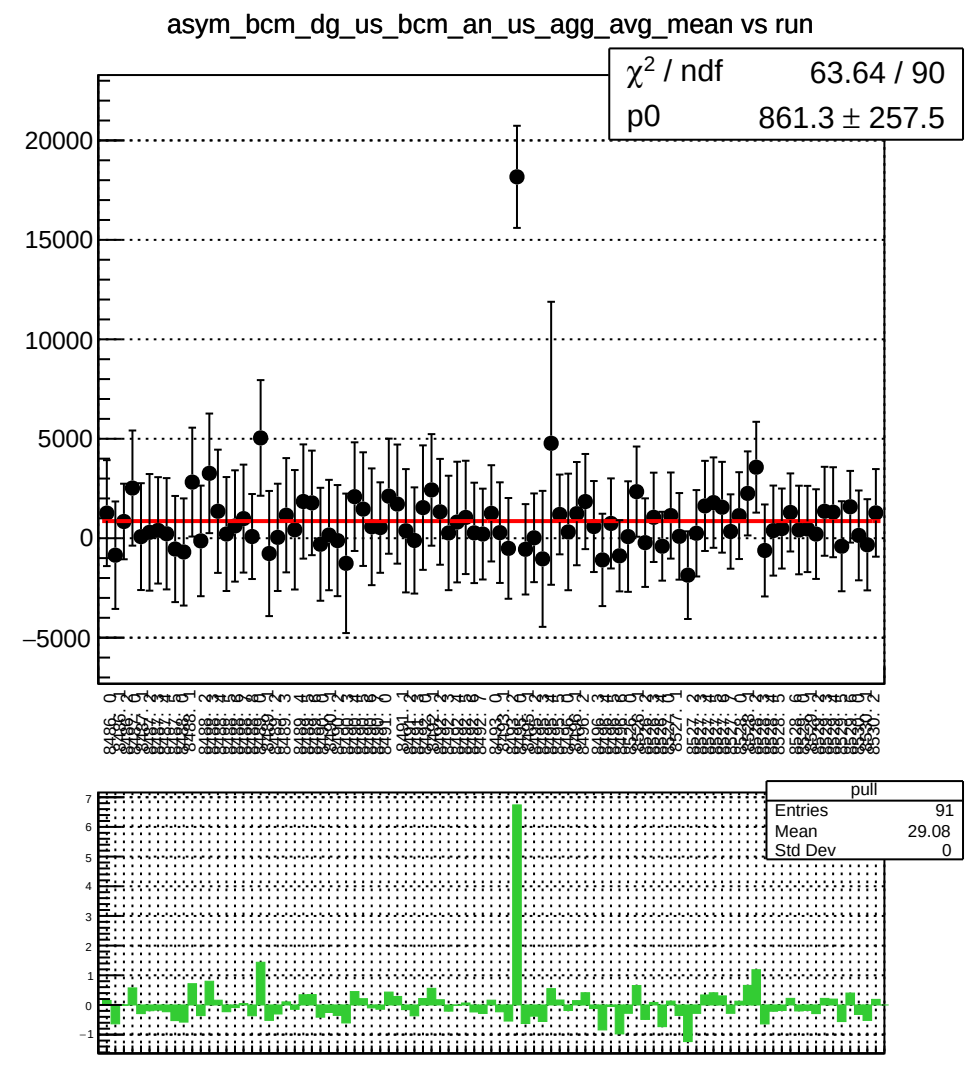

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 67.34 / 90
p0 911.2 ± 256.4
20000
15000
10000
5000
0
−5000
pull
Entries 91
Mean 24.55
Std Dev 0
7
6
5
4
3
2
1
0
−1

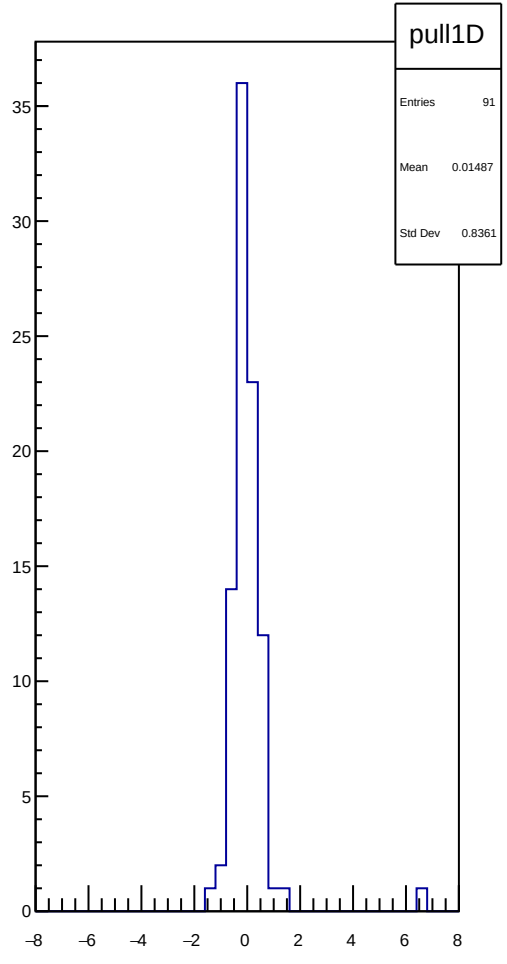

pull1D
Entries 91
Mean 0.01454
Std Dev 0.8601
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

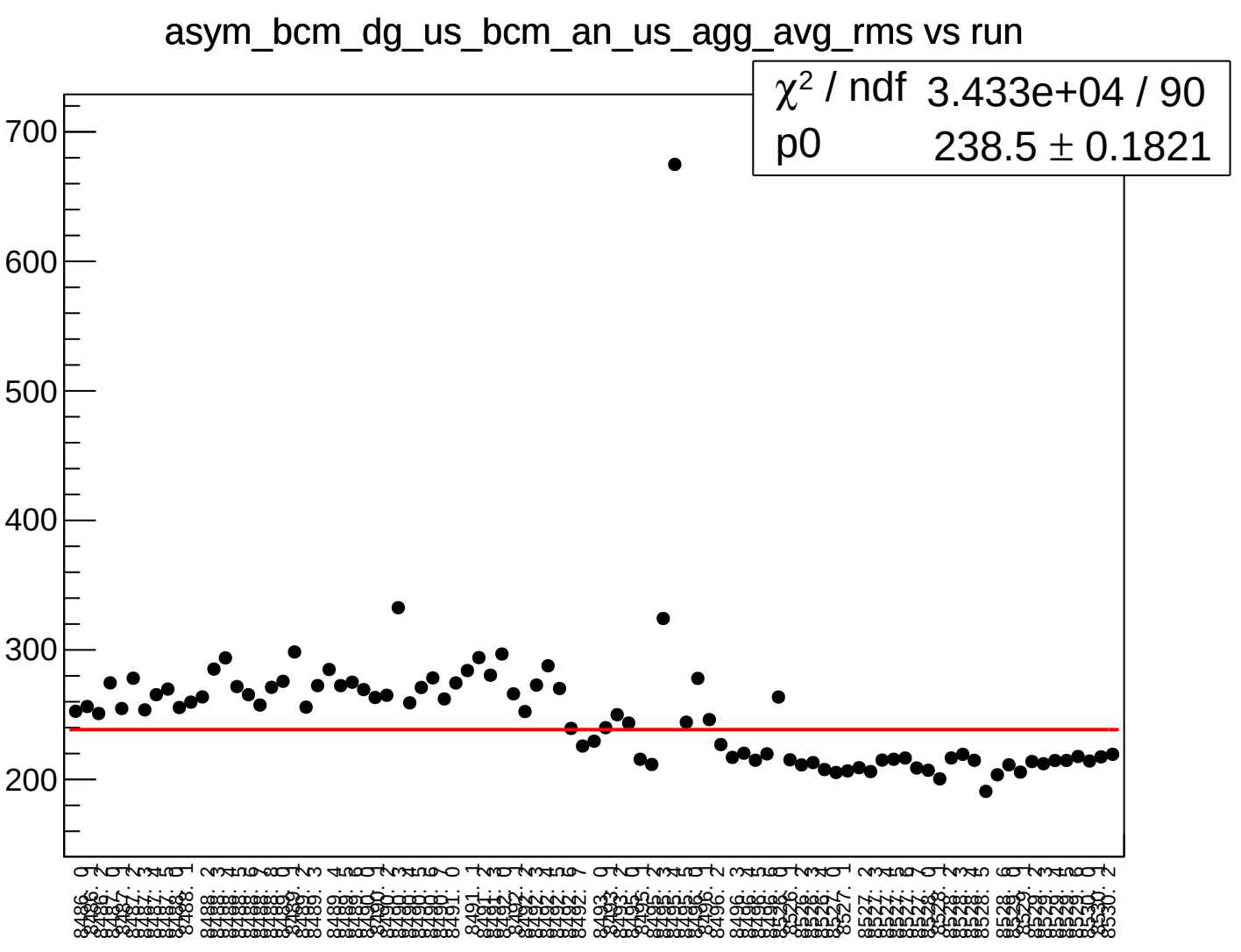

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3.395e+04 / 90
p0 237.5 ± 0.1813
700
600
500
400
300
200

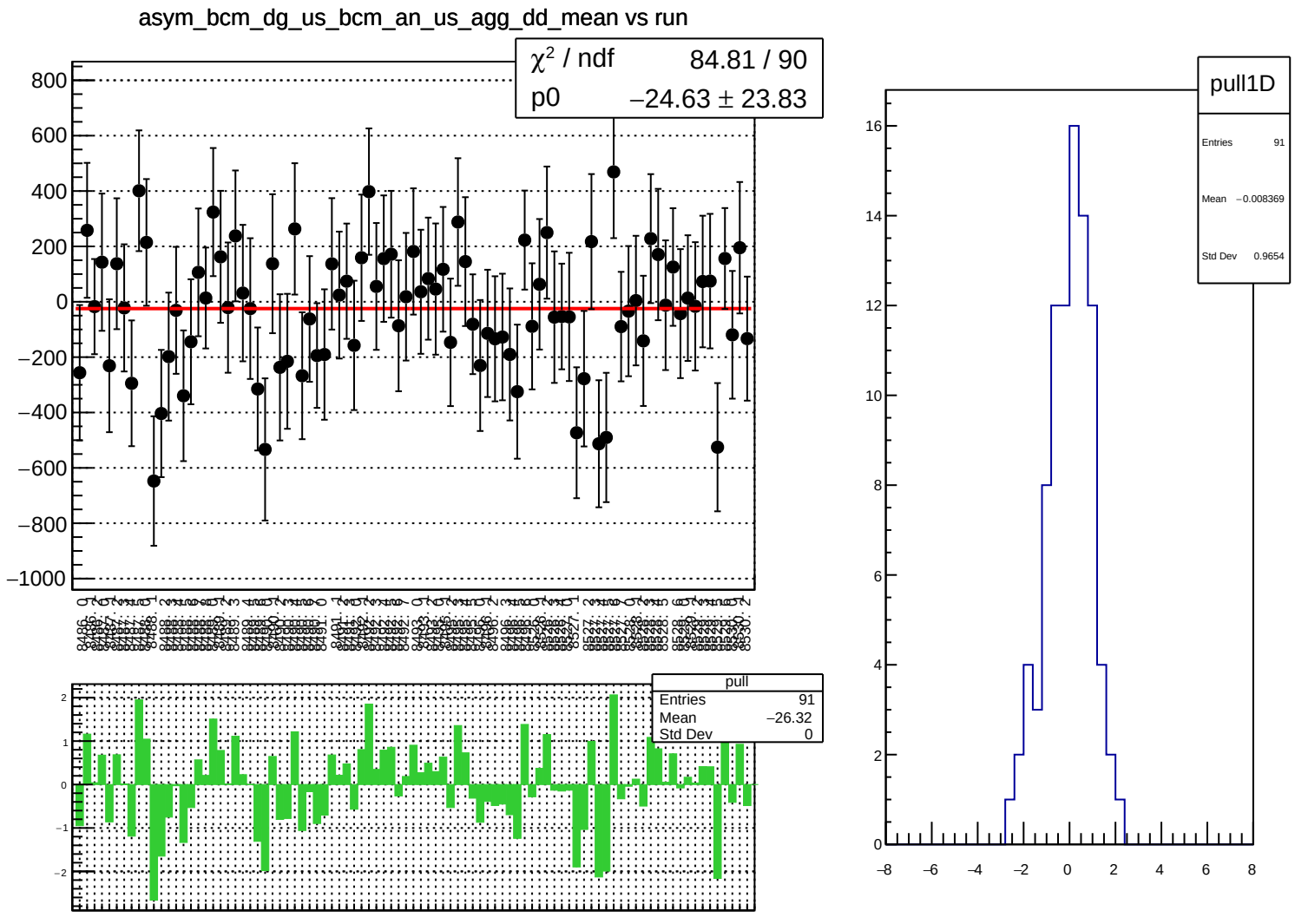

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 95.73 / 90
p0 −8.165 ± 17.95
pull
Entries 91
Mean −17.5
Std Dev 0
pull1D
Entries 91
Mean −0.01061
Std Dev 1.026

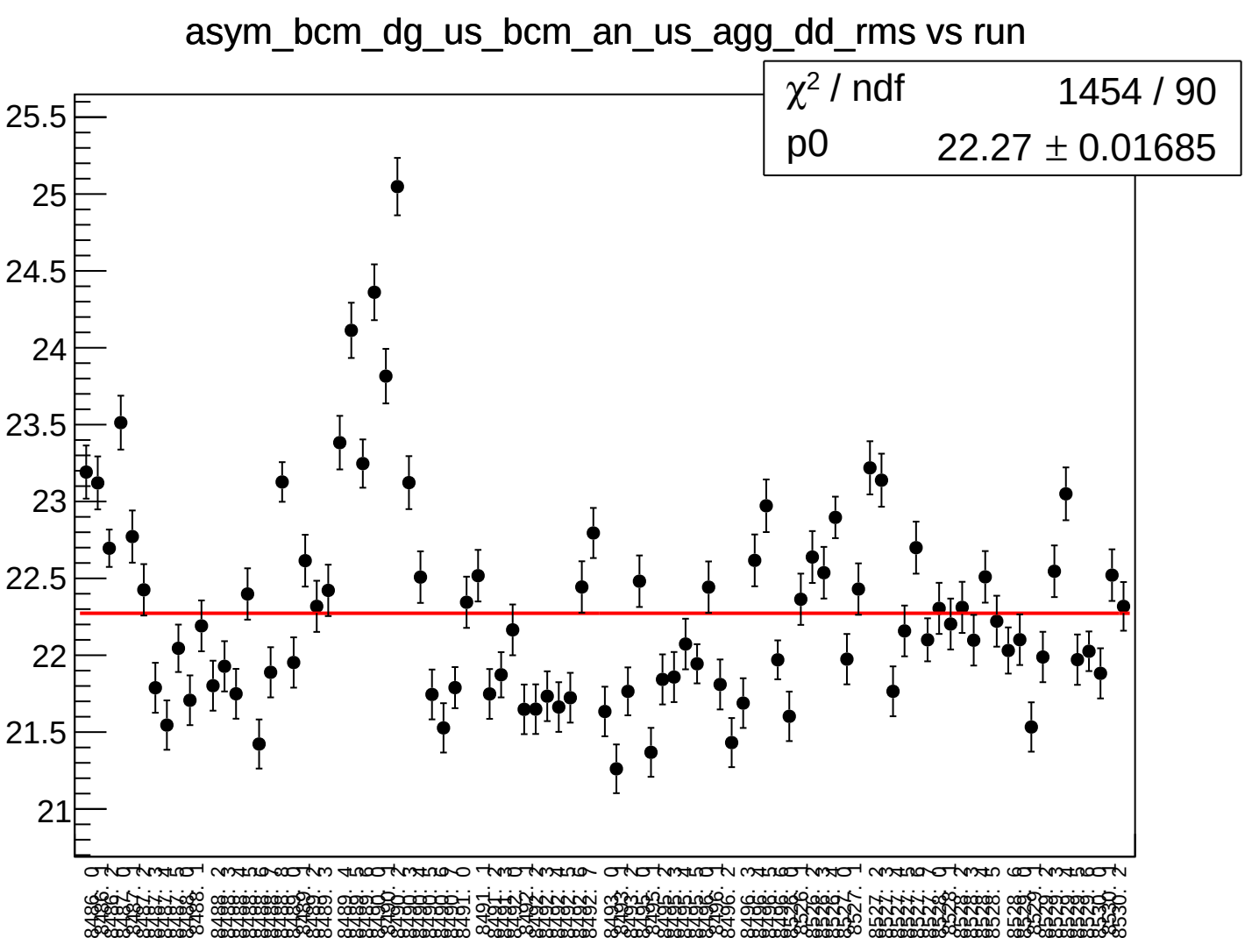

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 5443 / 90
p0 16.76 ± 0.01269
20
19
18
17
16
15

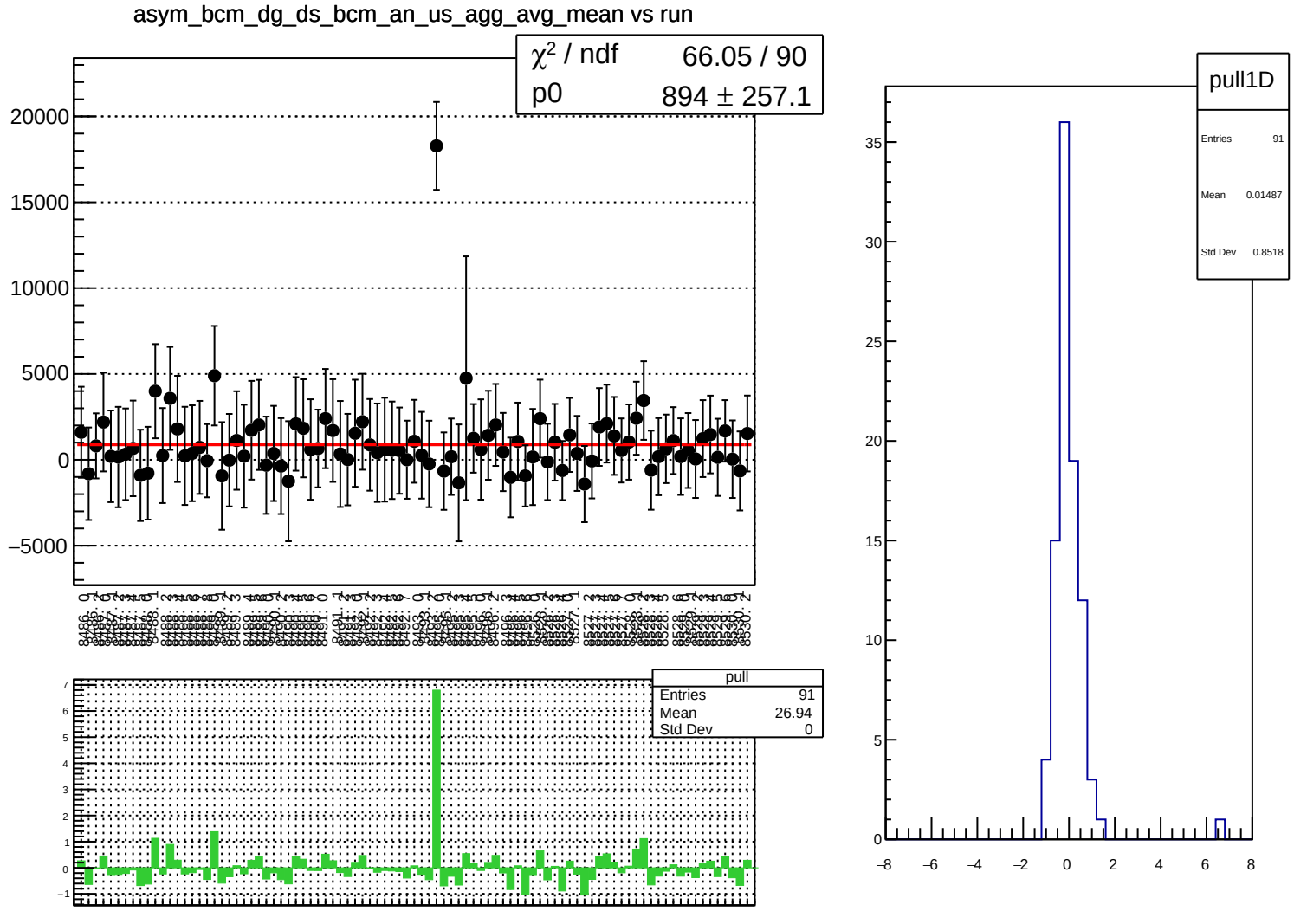

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 63.64 / 90
p0 861.3 ± 257.5
20000
15000
10000
5000
0
−5000
pull
Entries 91
Mean 29.08
Std Dev 0
7
6
5
4
3
2
1
0
−1

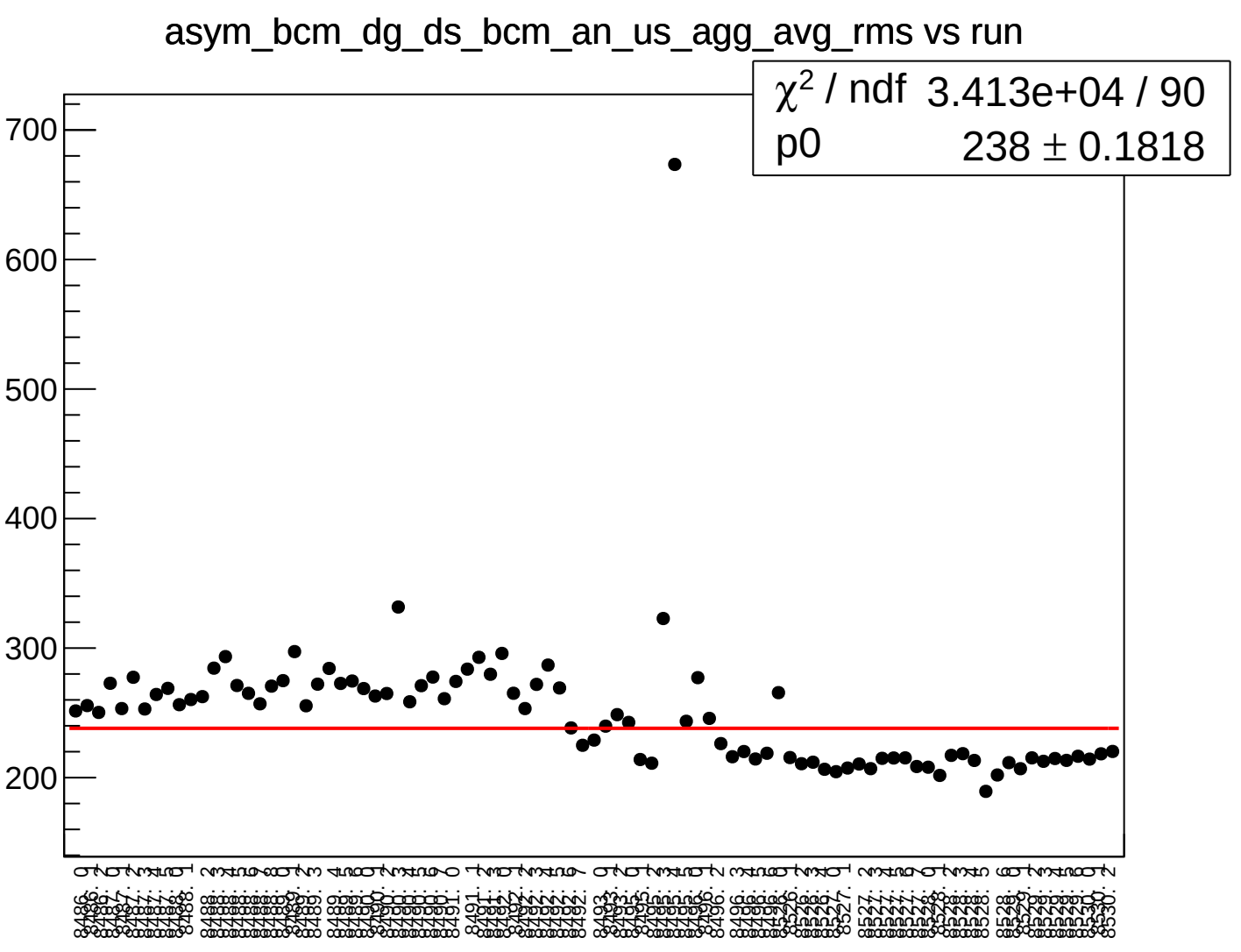

pull1D
Entries 91
Mean 0.01487
Std Dev 0.8361
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

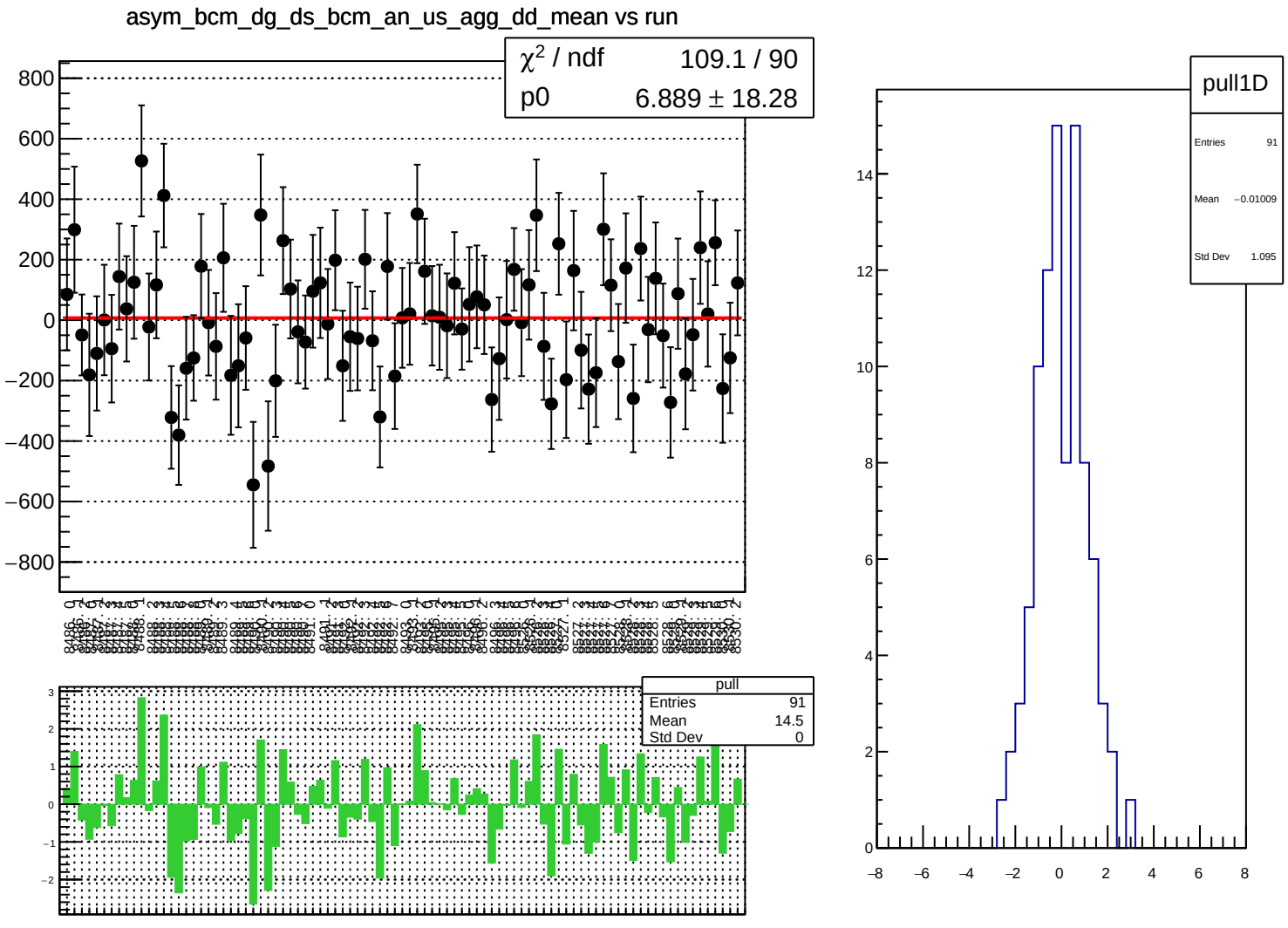

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3.433e+04 / 90
p0 238.5 ± 0.1821
700
600
500
400
300
200

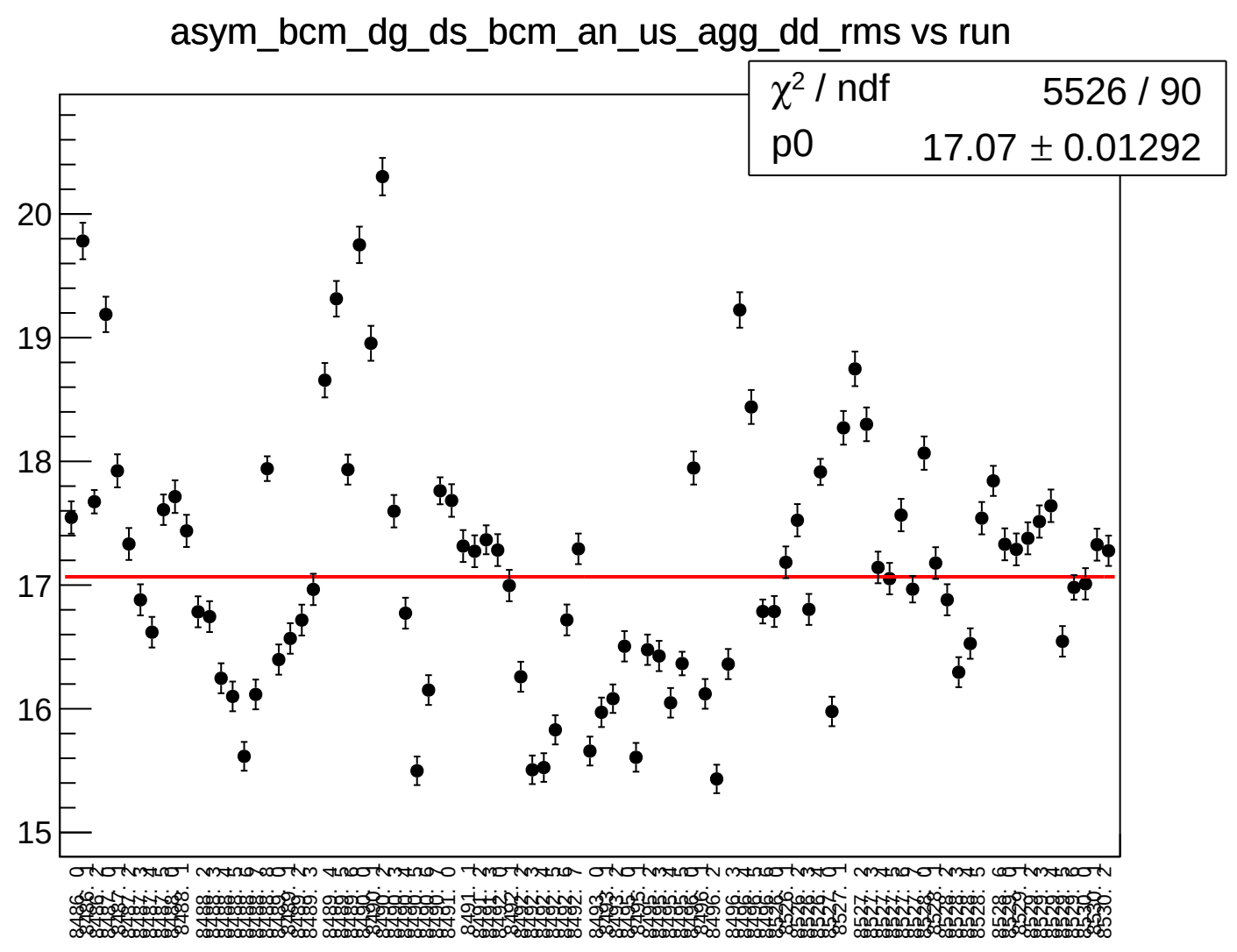

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 84.81 / 90
p0 −24.63 ± 23.83
pull
Entries 91
Mean −26.32
Std Dev 0
pull1D
Entries 91
Mean −0.008369
Std Dev 0.9654

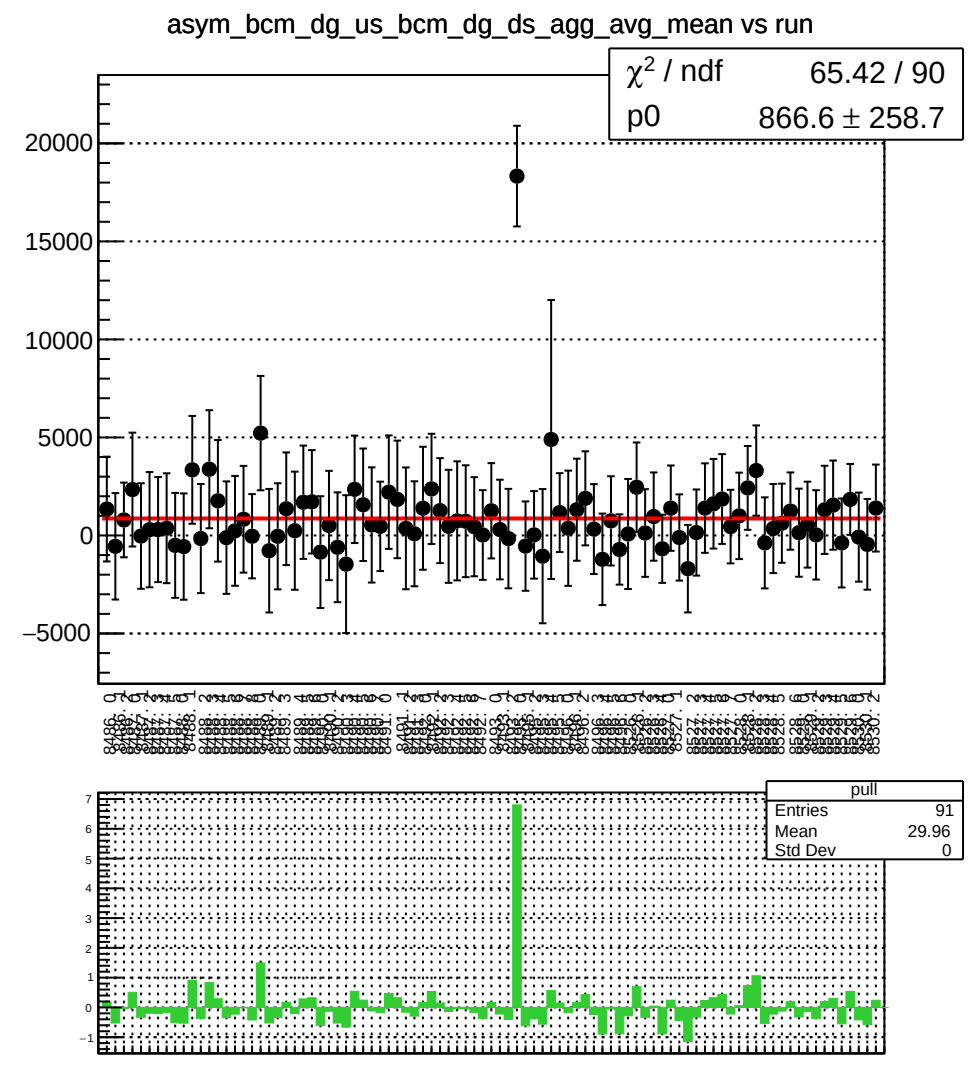

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1454 / 90
p0 22.27 ± 0.01685
25.5
25
24.5
24
23.5
23
22.5
22
21.5
21

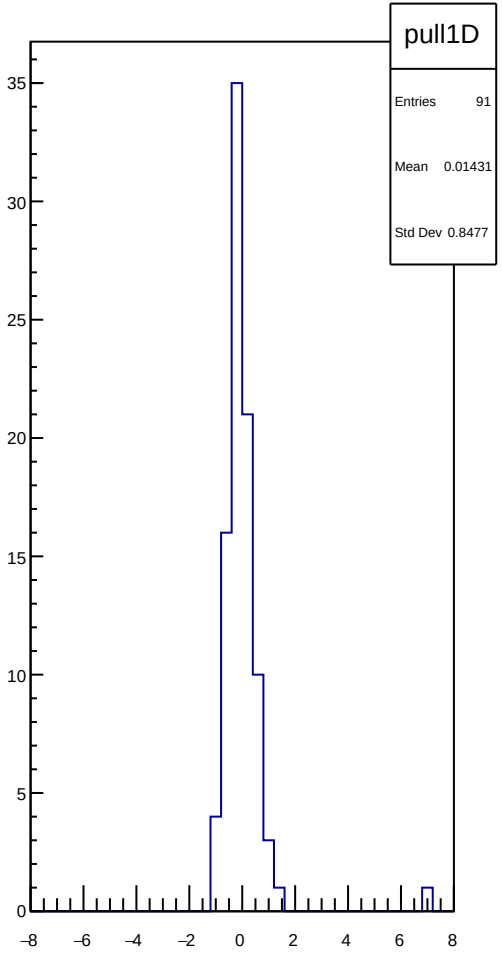

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 66.05 / 90
p0 894 ± 257.1
20000
15000
10000
5000
0
−5000
pull
Entries 91
Mean 26.94
Std Dev 0
7
6
5
4
3
2
1
0
−1
pull1D
Entries 91
Mean 0.01487
Std Dev 0.8518
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

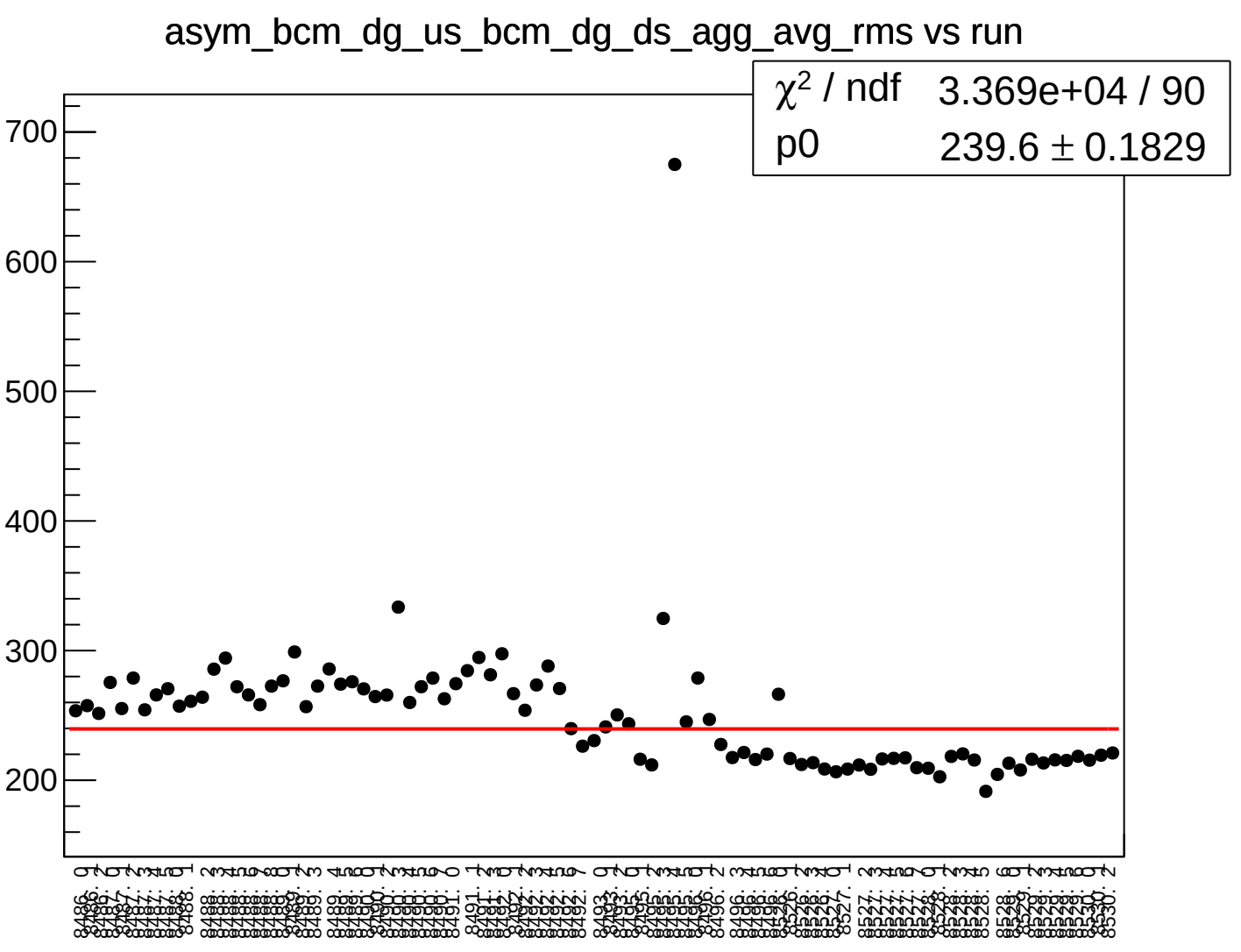

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3.413e+04 / 90
p0 238 ± 0.1818
700
600
500
400
300
200

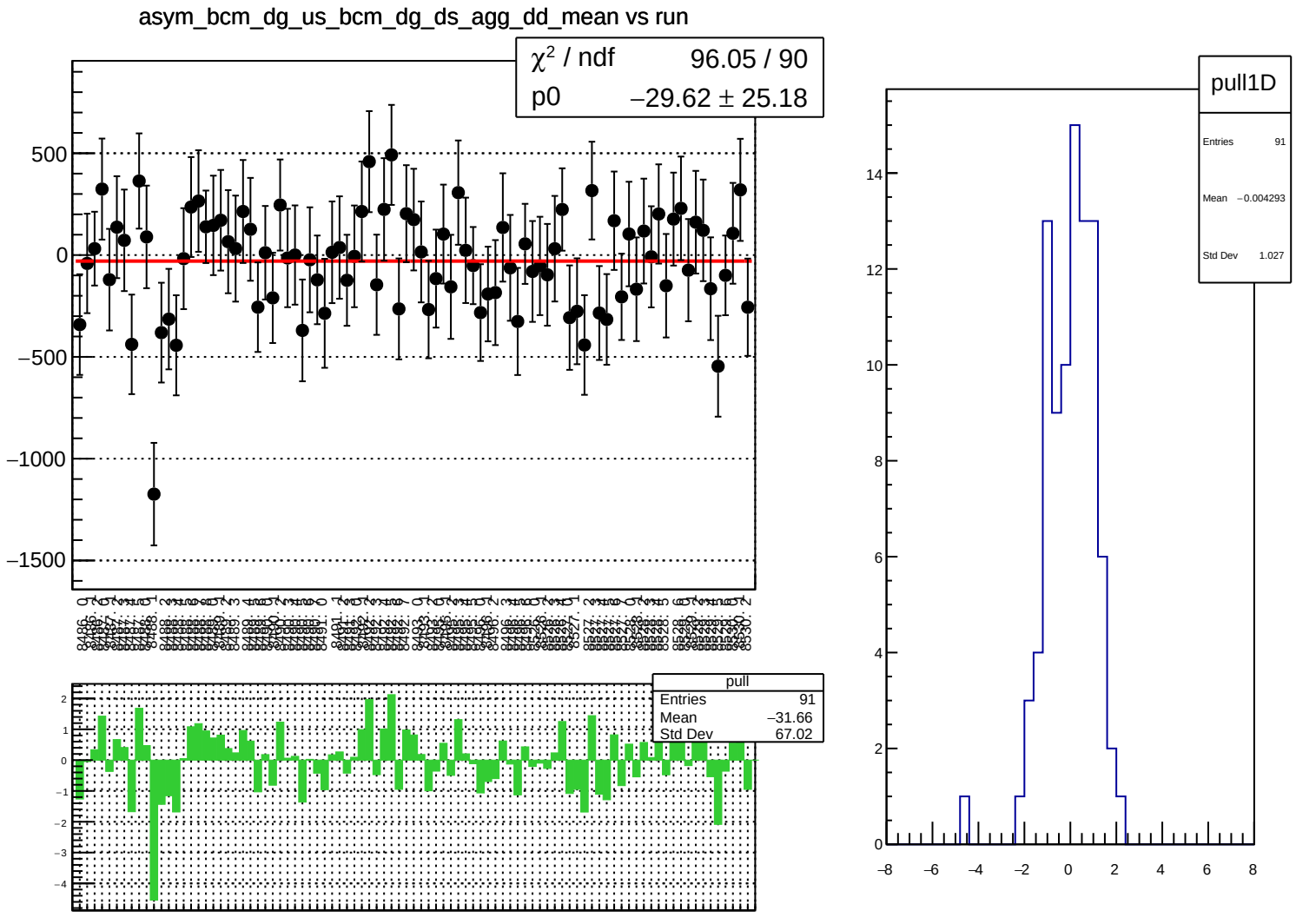

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 109.1 / 90
p0 6.889 ± 18.28
pull
Entries 91
Mean 14.5
Std Dev 0
pull1D
Entries 91
Mean −0.01009
Std Dev 1.095

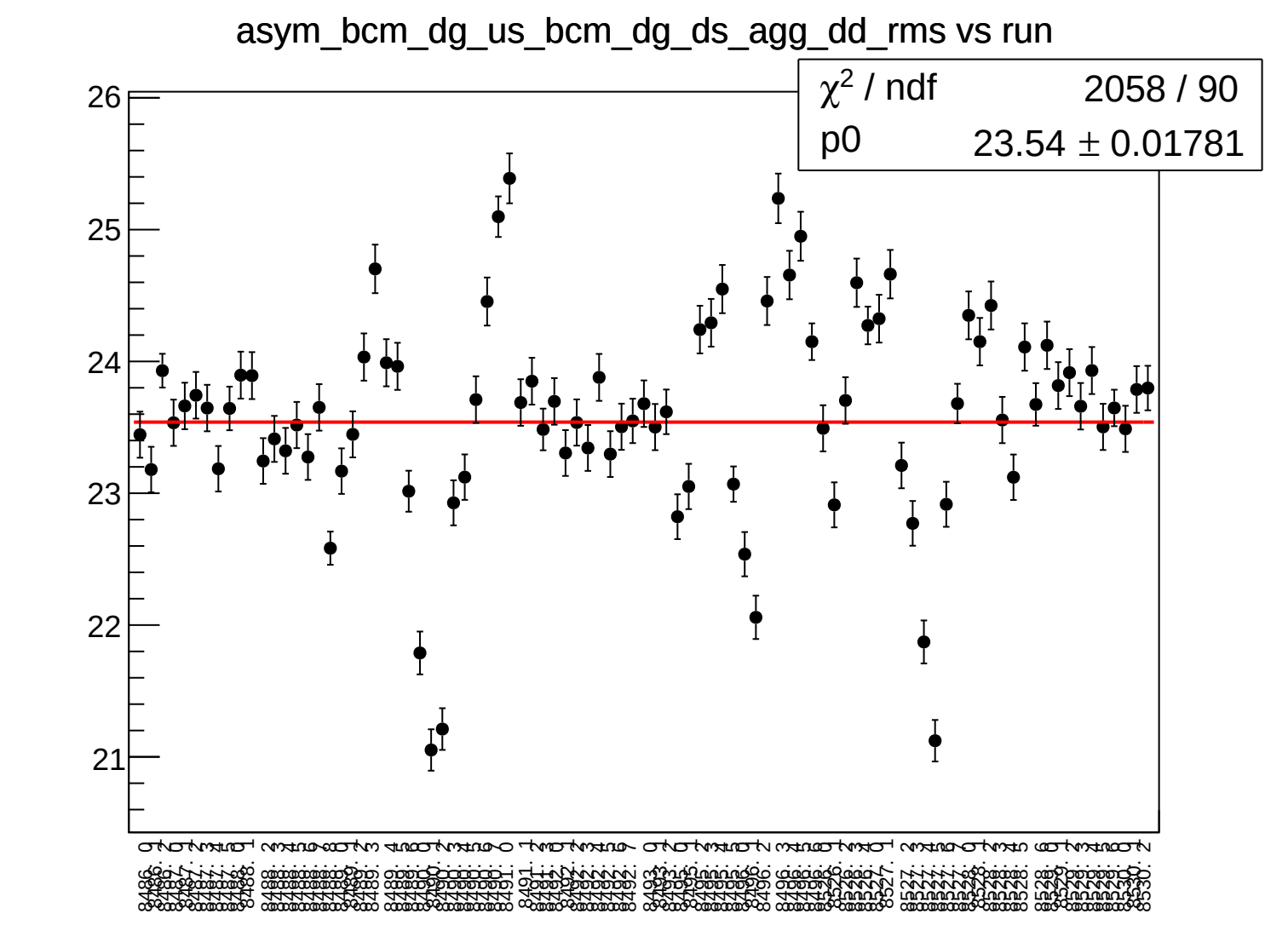

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 5526 / 90
p0 17.07 ± 0.01292
20
19
18
17
16
15

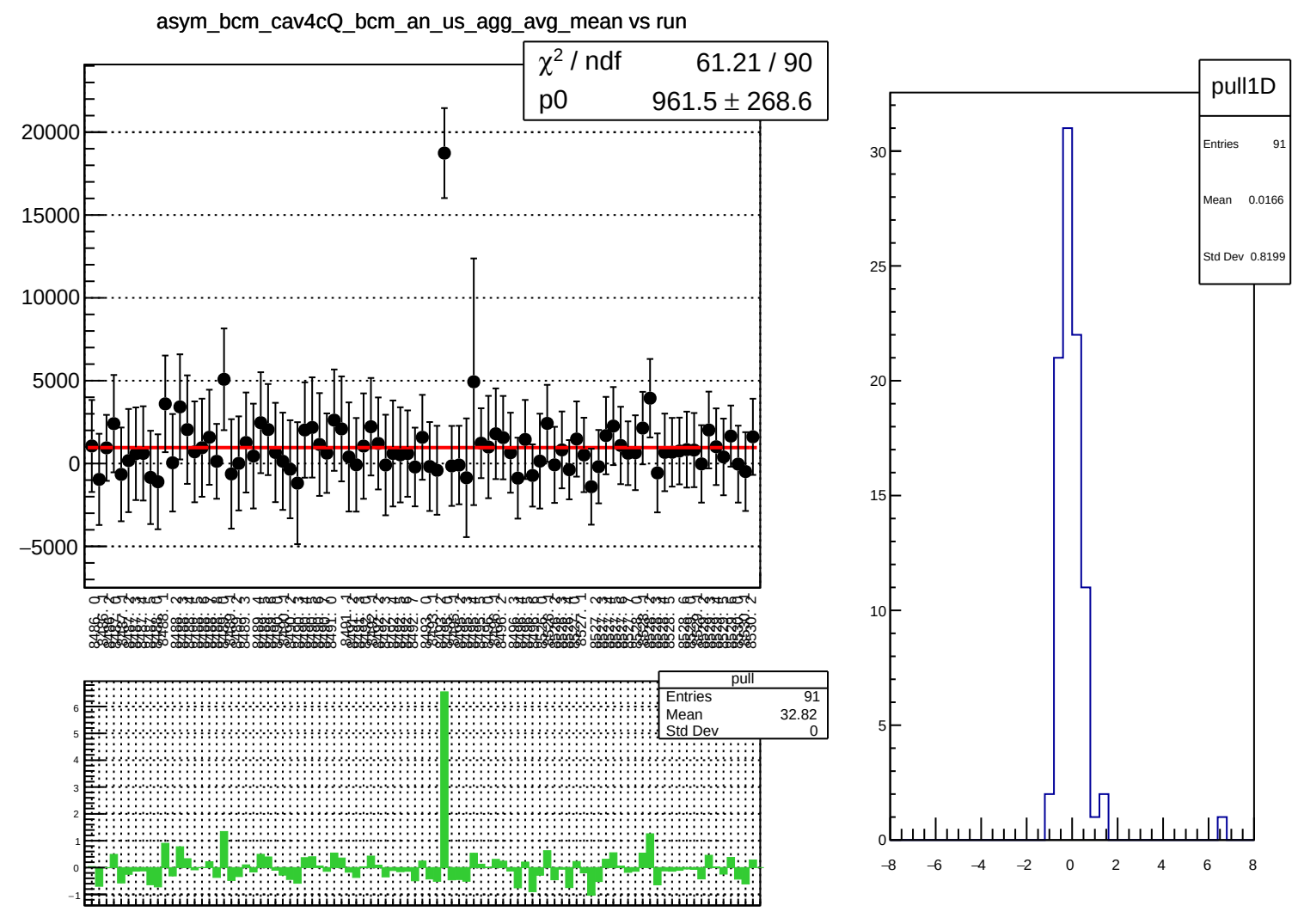

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 65.42 / 90
p0 866.6 ± 258.7
20000
15000
10000
5000
0
−5000
pull
Entries 91
Mean 29.96
Std Dev 0

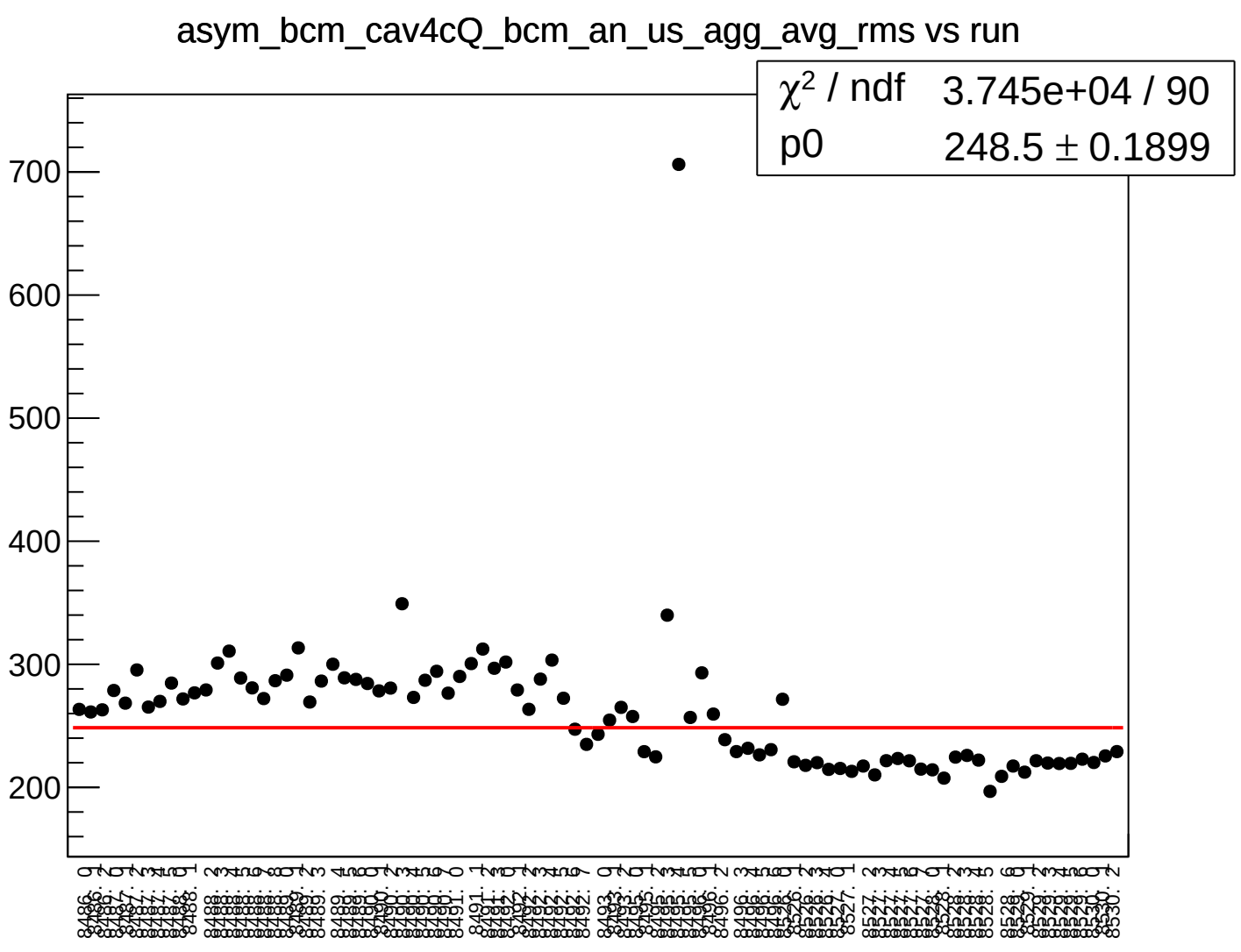

pull1D
Entries 91
Mean 0.01431
Std Dev 0.8477
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

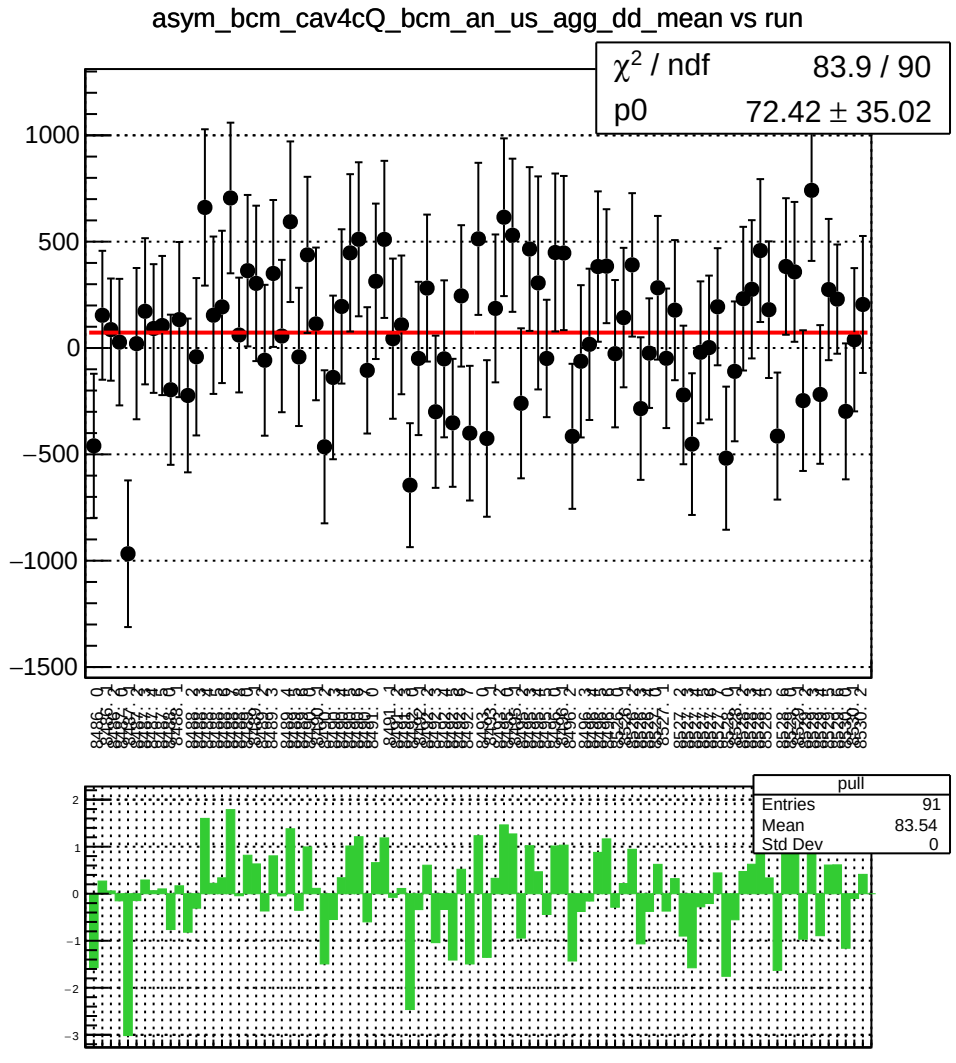

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 3.369e+04 / 90
p0 239.6 ± 0.1829
700
600
500
400
300
200

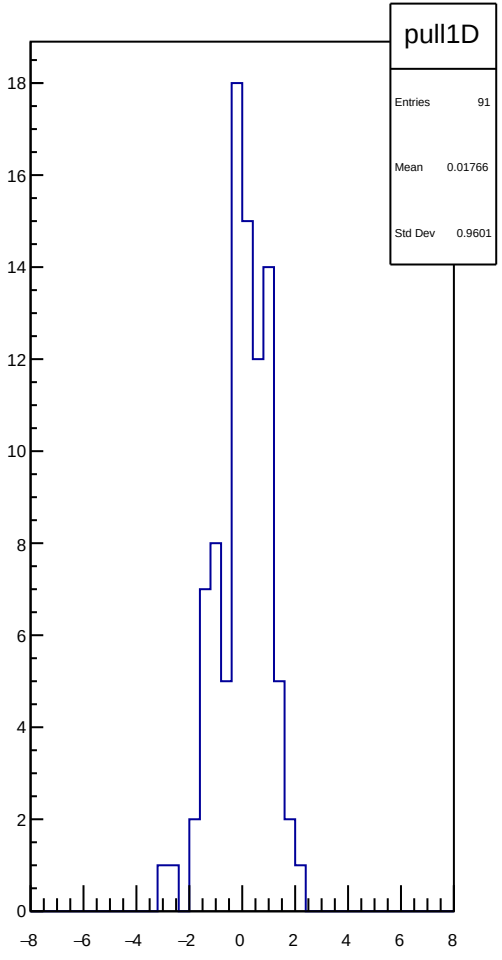

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 96.05 / 90
p0 −29.62 ± 25.18
500
0
−500
−1000
−1500
pull
Entries 91
Mean −31.66
Std Dev 67.02
2
1
0
−1
−2
−3
−4
pull1D
Entries 91
Mean −0.004293
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

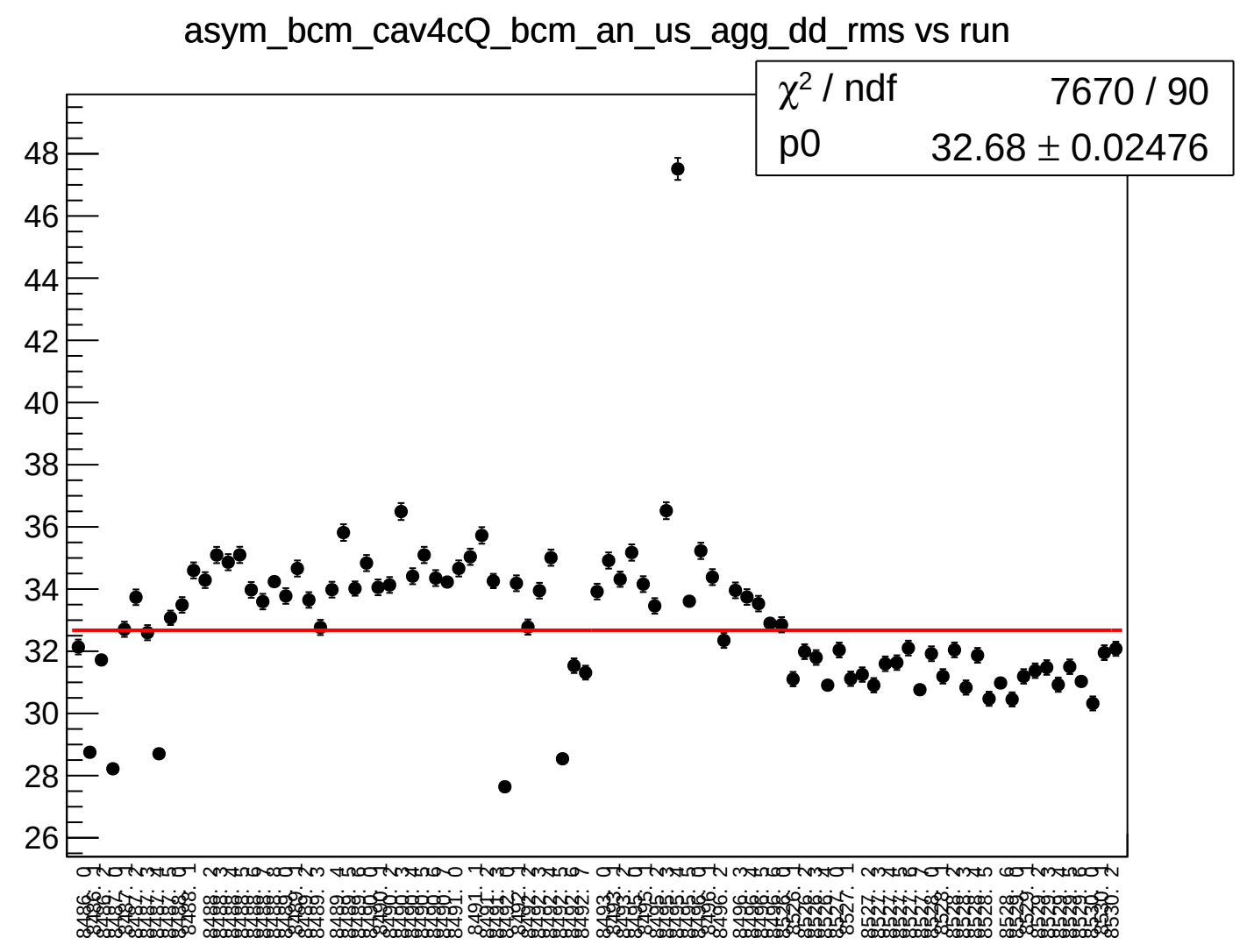

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2058 / 90
p0 23.54 ± 0.01781
26
25
24
23
22
21

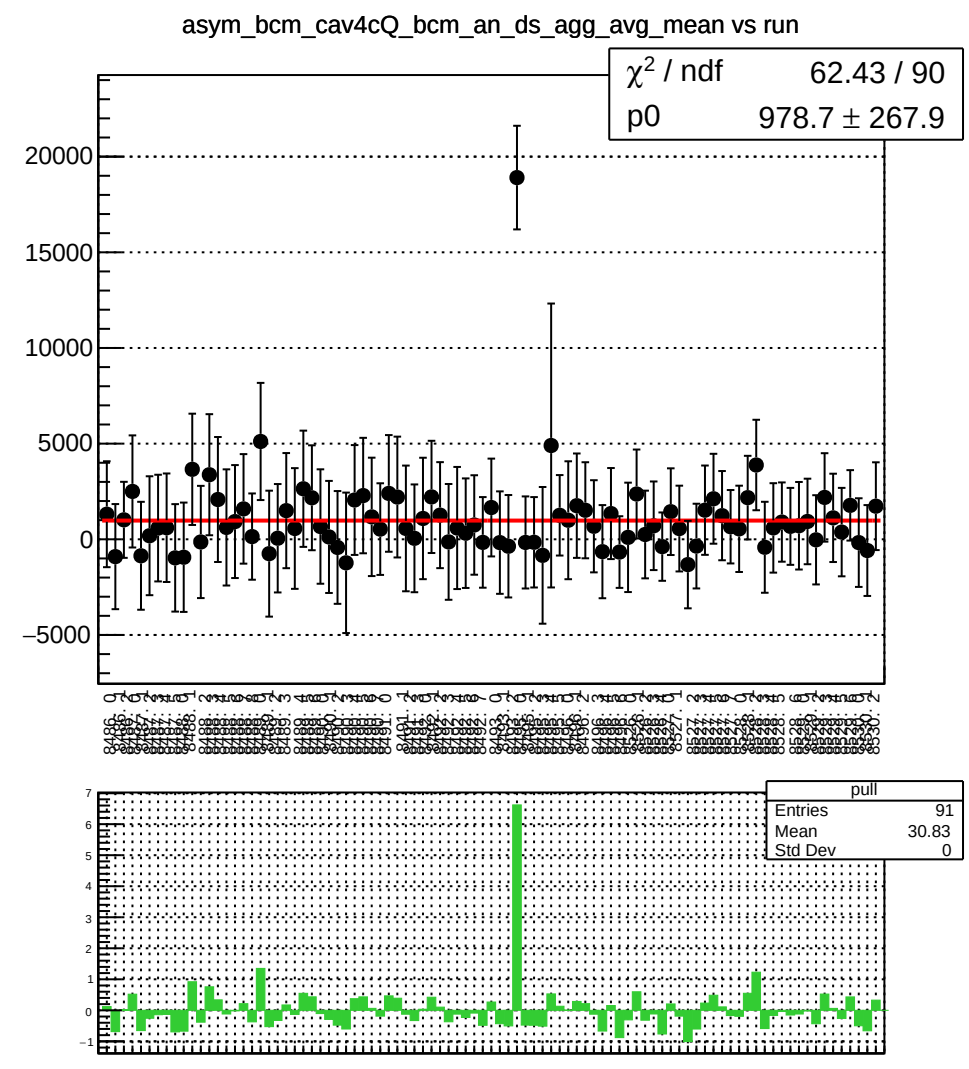

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 61.21 / 90
p0 961.5 ± 268.6
20000
15000
10000
5000
0
−5000
pull
Entries 91
Mean 32.82
Std Dev 0
6
5
4
3
2
1
0
−1
pull1D
Entries 91
Mean 0.0166
Std Dev 0.8199
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

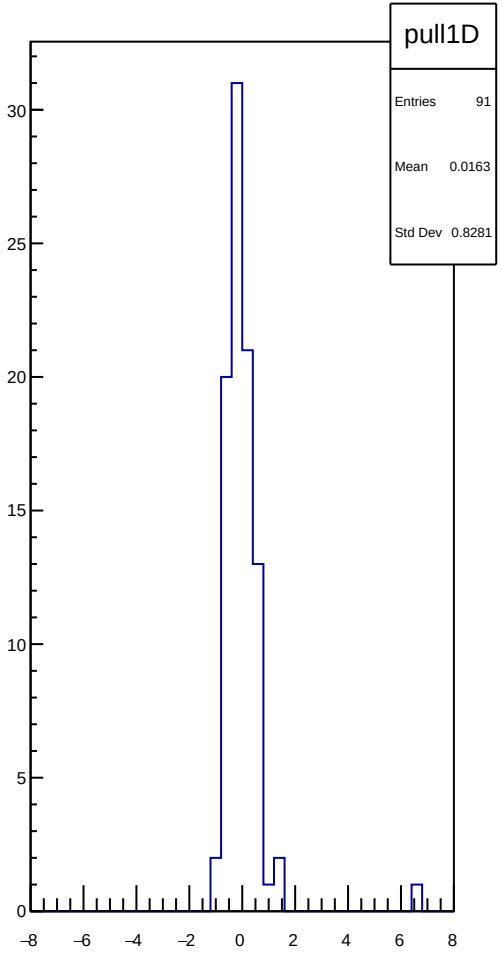

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3.745e+04 / 90
p0 248.5 ± 0.1899
700
600
500
400
300
200

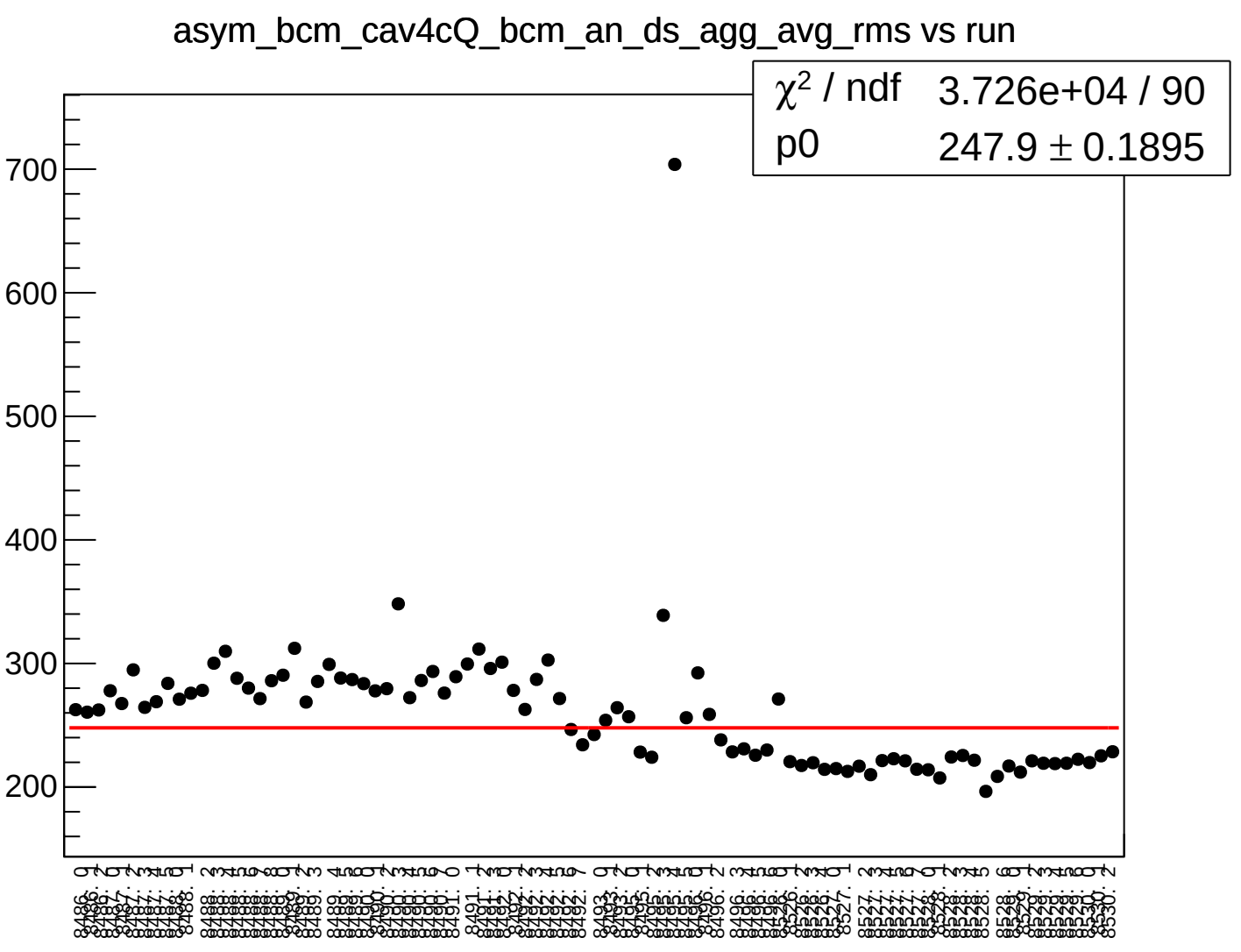

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 83.9 / 90
p0 72.42 ± 35.02
1000
500
0
−500
−1000
−1500
pull
Entries 91
Mean 83.54
Std Dev 0
2
1
0
−1
−2
−3

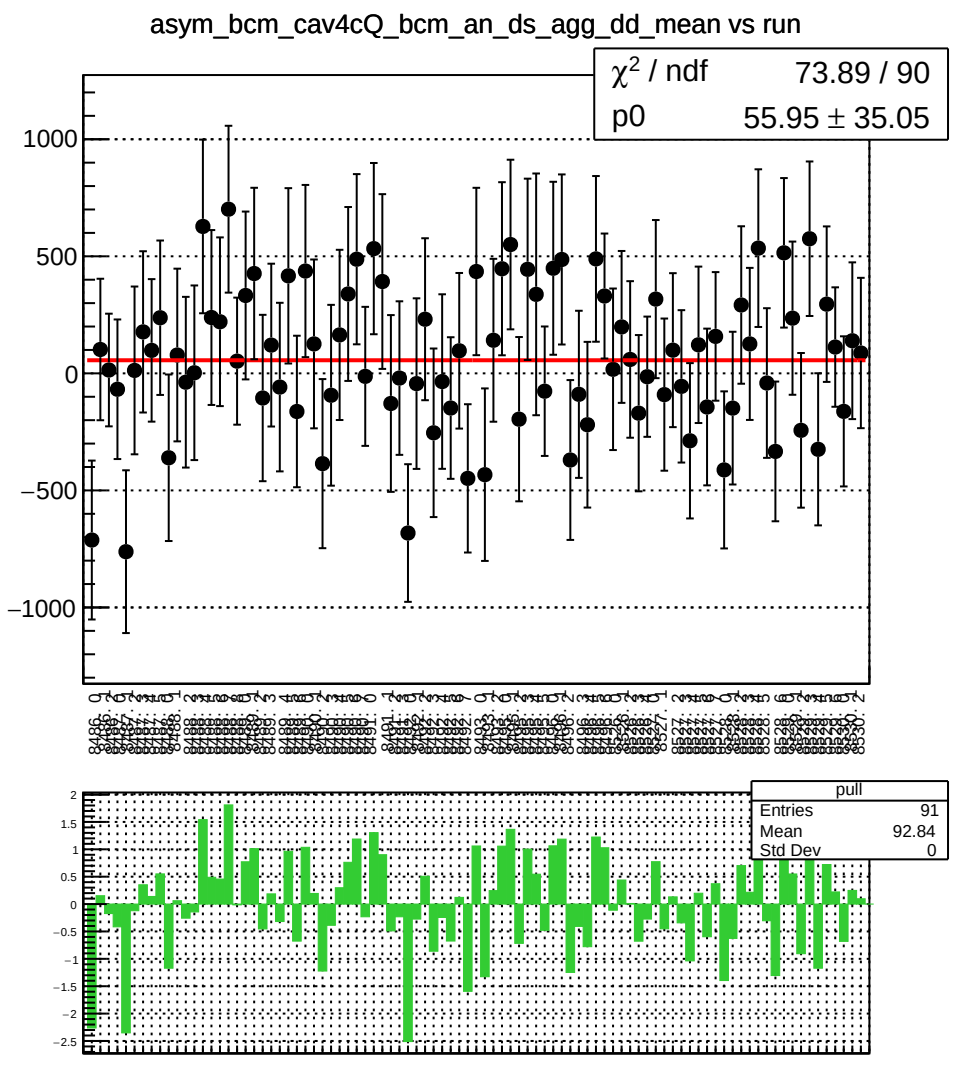

pull1D
Entries 91
Mean 0.01766
Std Dev 0.9601
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

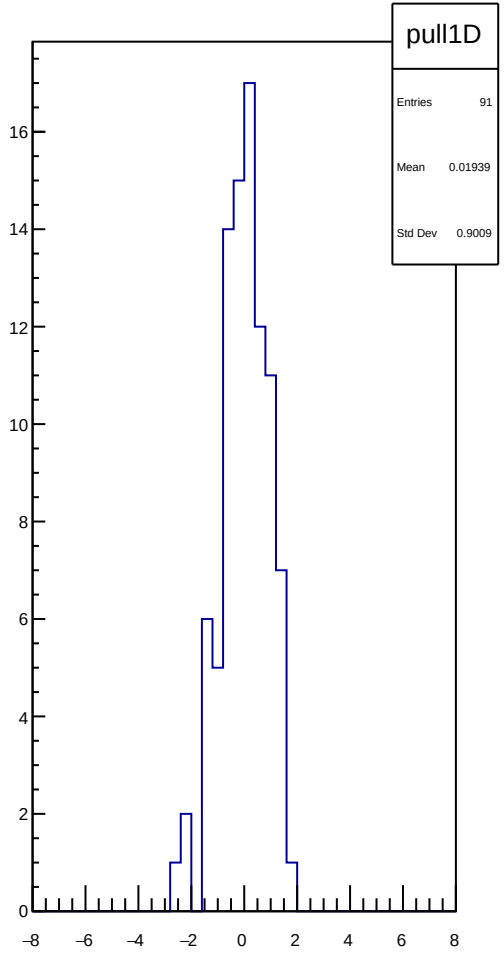

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 7670 / 90
p0 32.68 ± 0.02476
48
46
44
42
40
38
36
34
32
30
28
26

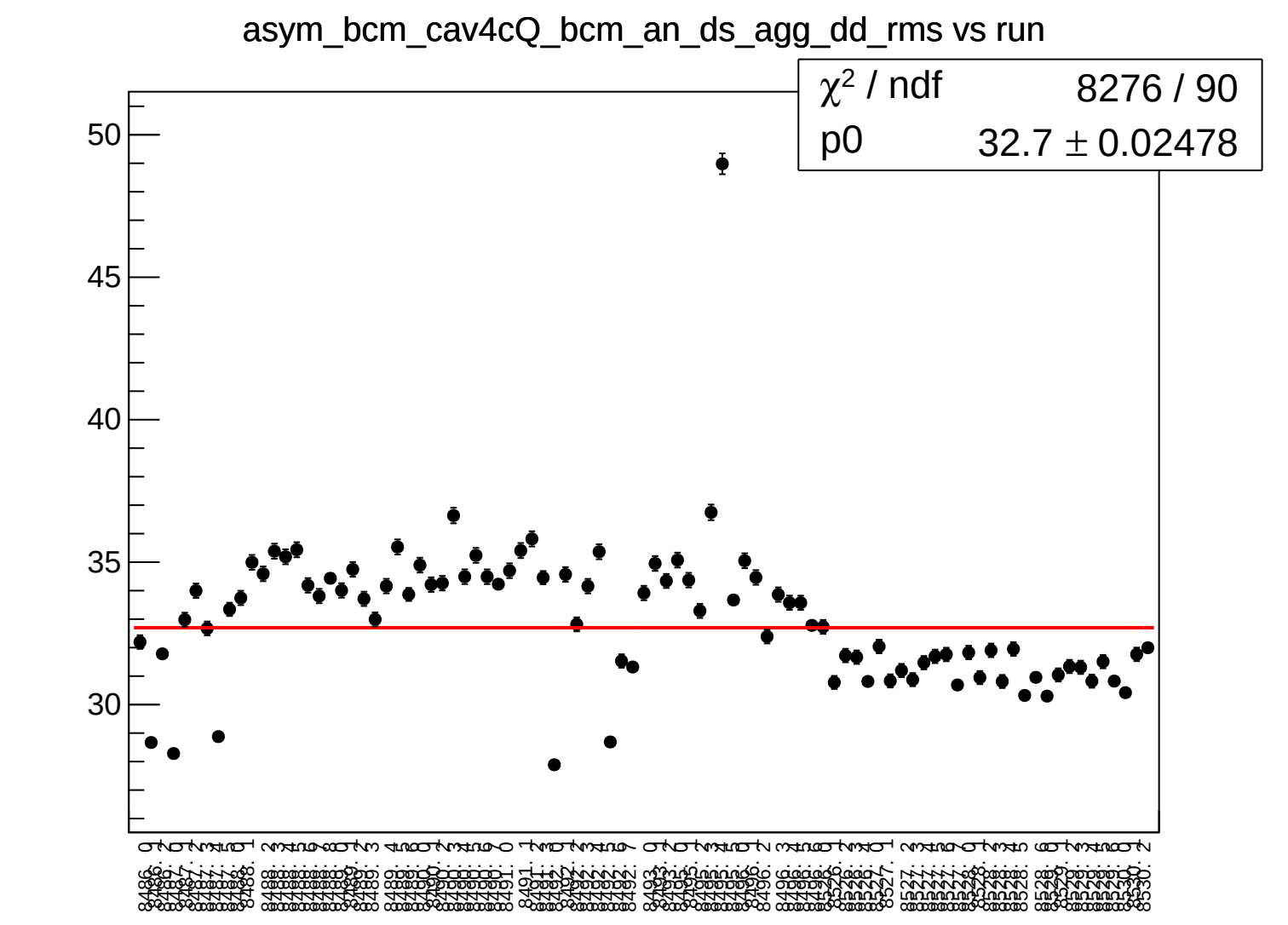

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 62.43 / 90
p0 978.7 ± 267.9
20000
15000
10000
5000
0
−5000
pull
Entries 91
Mean 30.83
Std Dev 0
7
6
5
4
3
2
1
0
−1

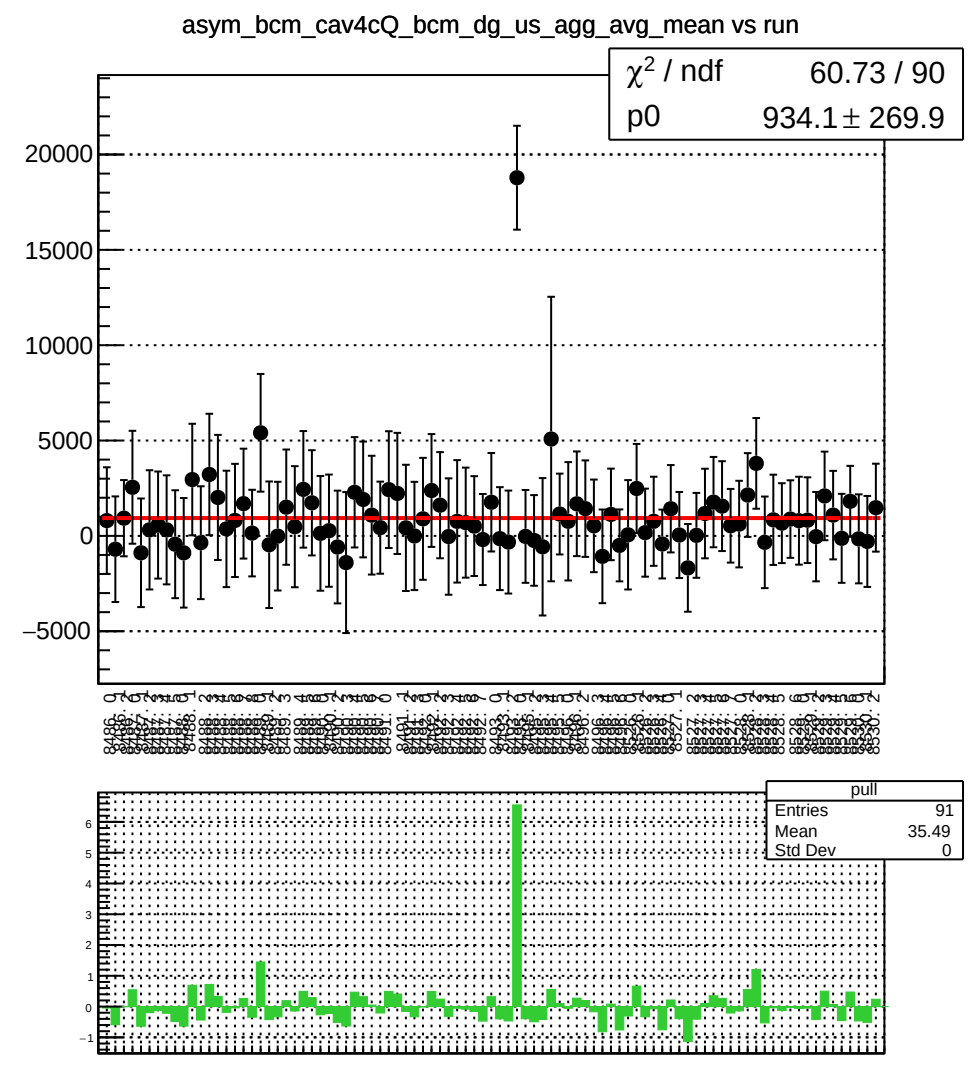

pull1D
Entries 91
Mean 0.0163
Std Dev 0.8281
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

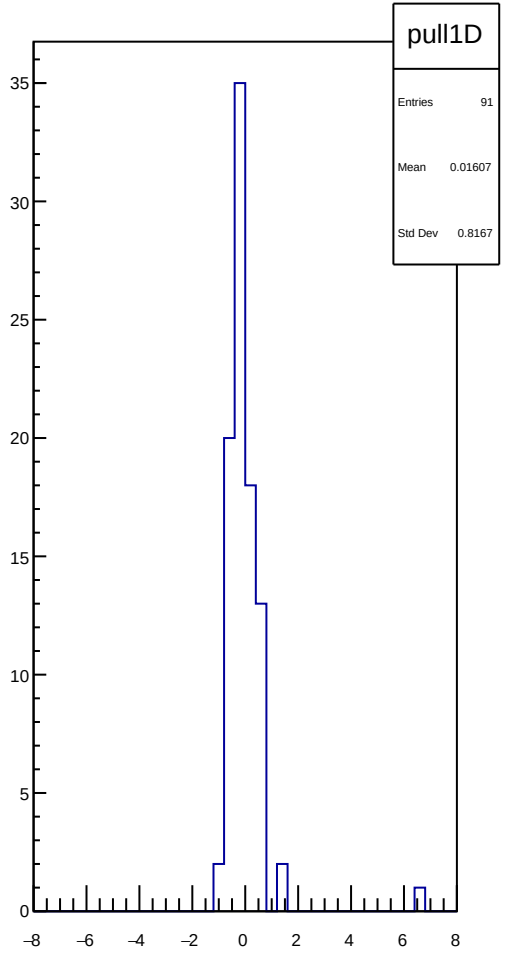

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3.726e+04 / 90
p0 247.9 ± 0.1895
700
600
500
400
300
200

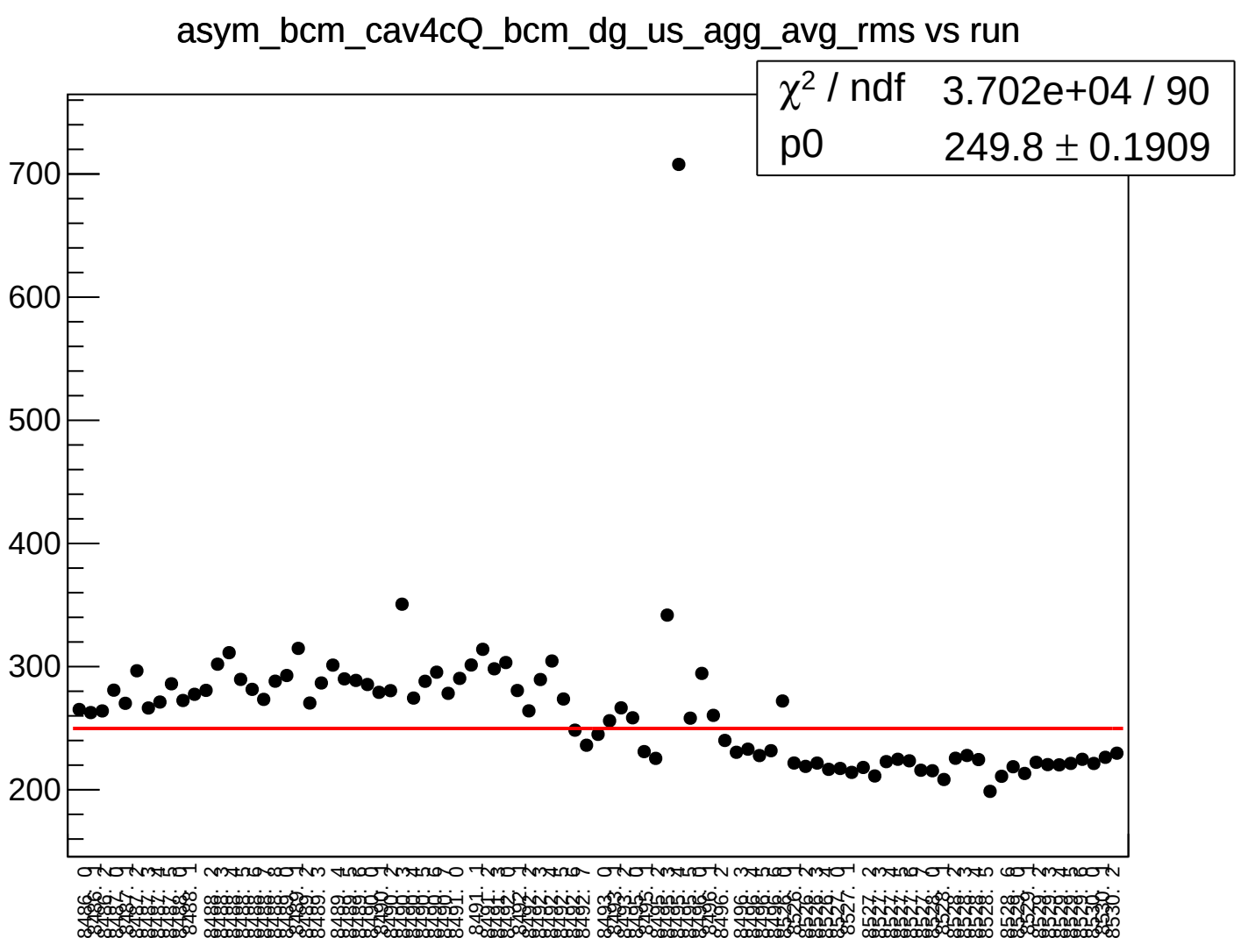

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 73.89 / 90
p0 55.95 ± 35.05
1000
500
0
−500
−1000
pull
Entries 91
Mean 92.84
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

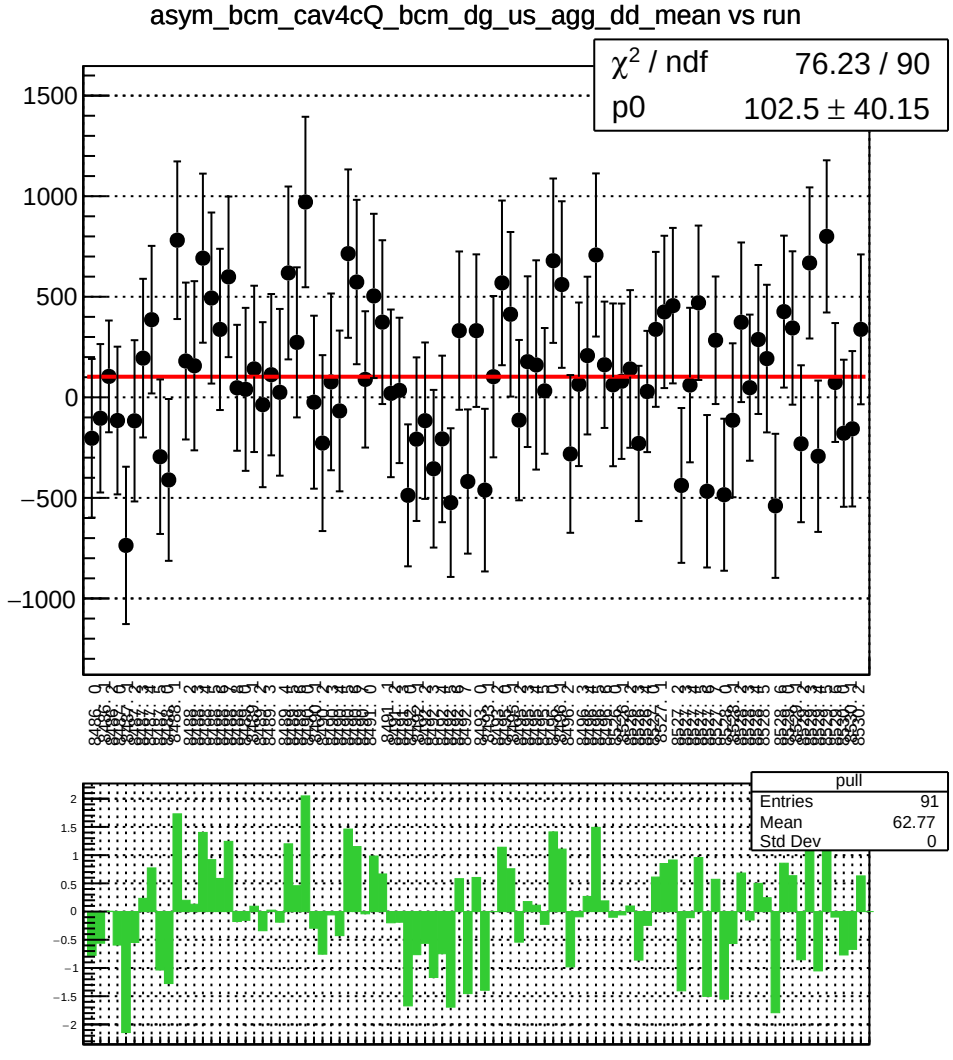

pull1D
Entries 91
Mean 0.01939
Std Dev 0.9009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

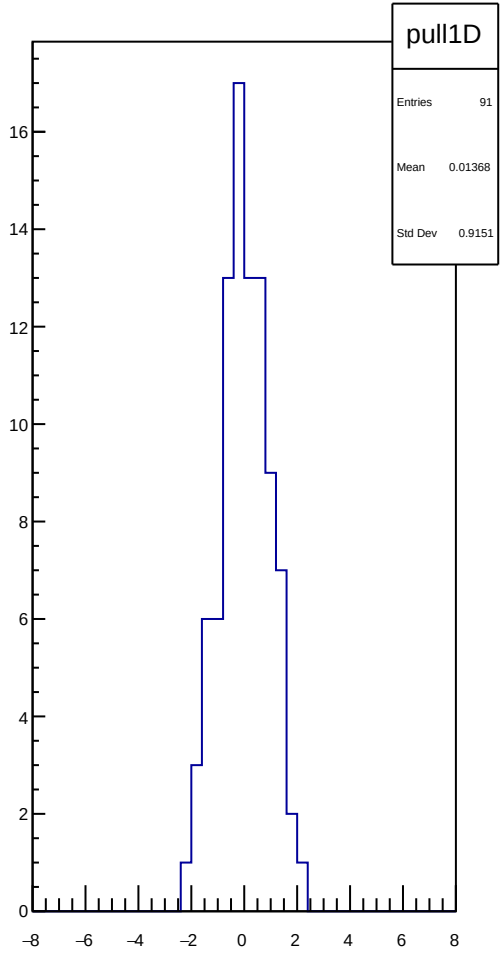

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 8276 / 90
p0 32.7 ± 0.02478
50
45
40
35
30

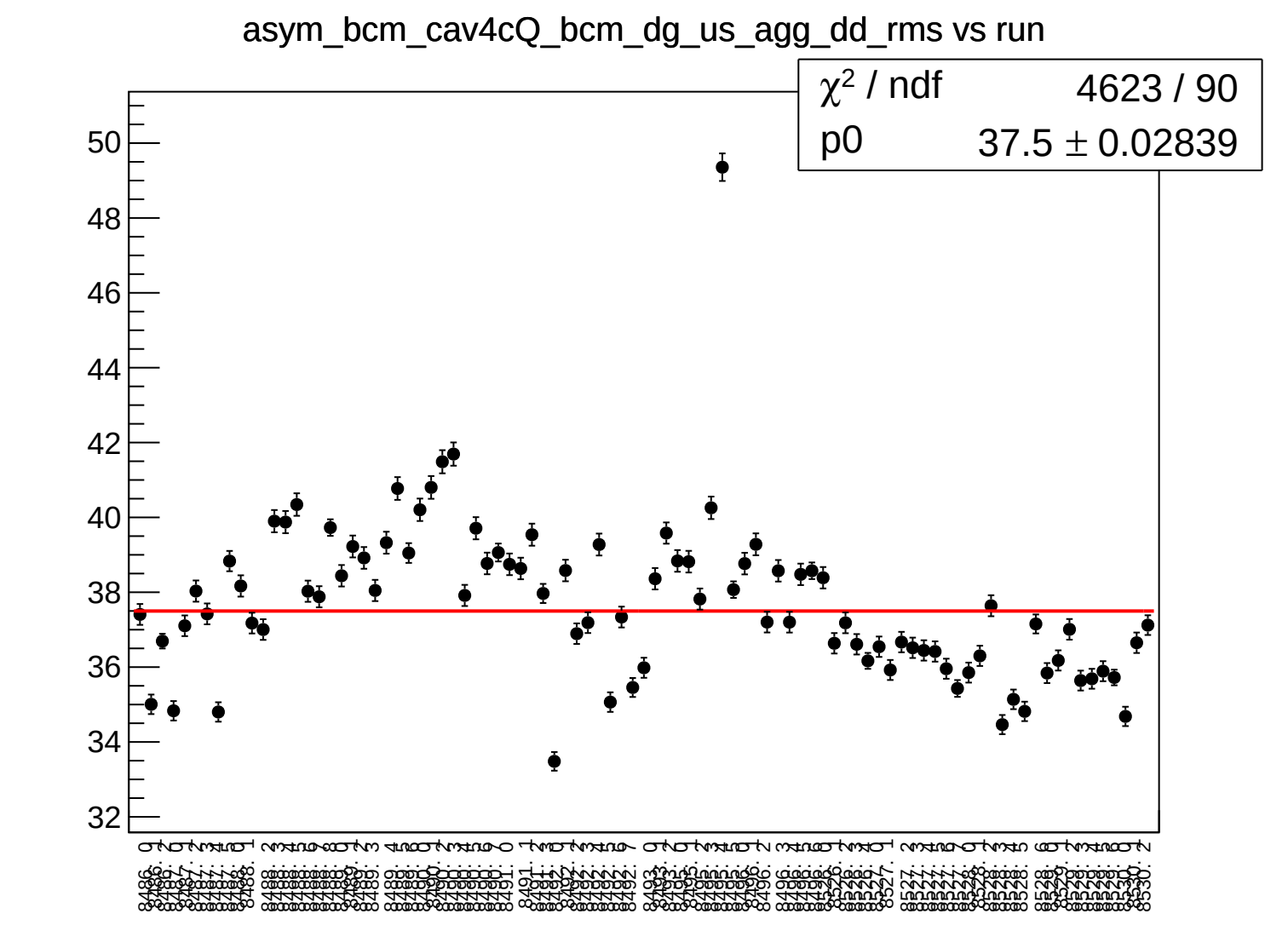

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 60.73 / 90
p0 934.1 ± 269.9
20000
15000
10000
5000
0
−5000
pull
Entries 91
Mean 35.49
Std Dev 0
6
5
4
3
2
1
0
−1

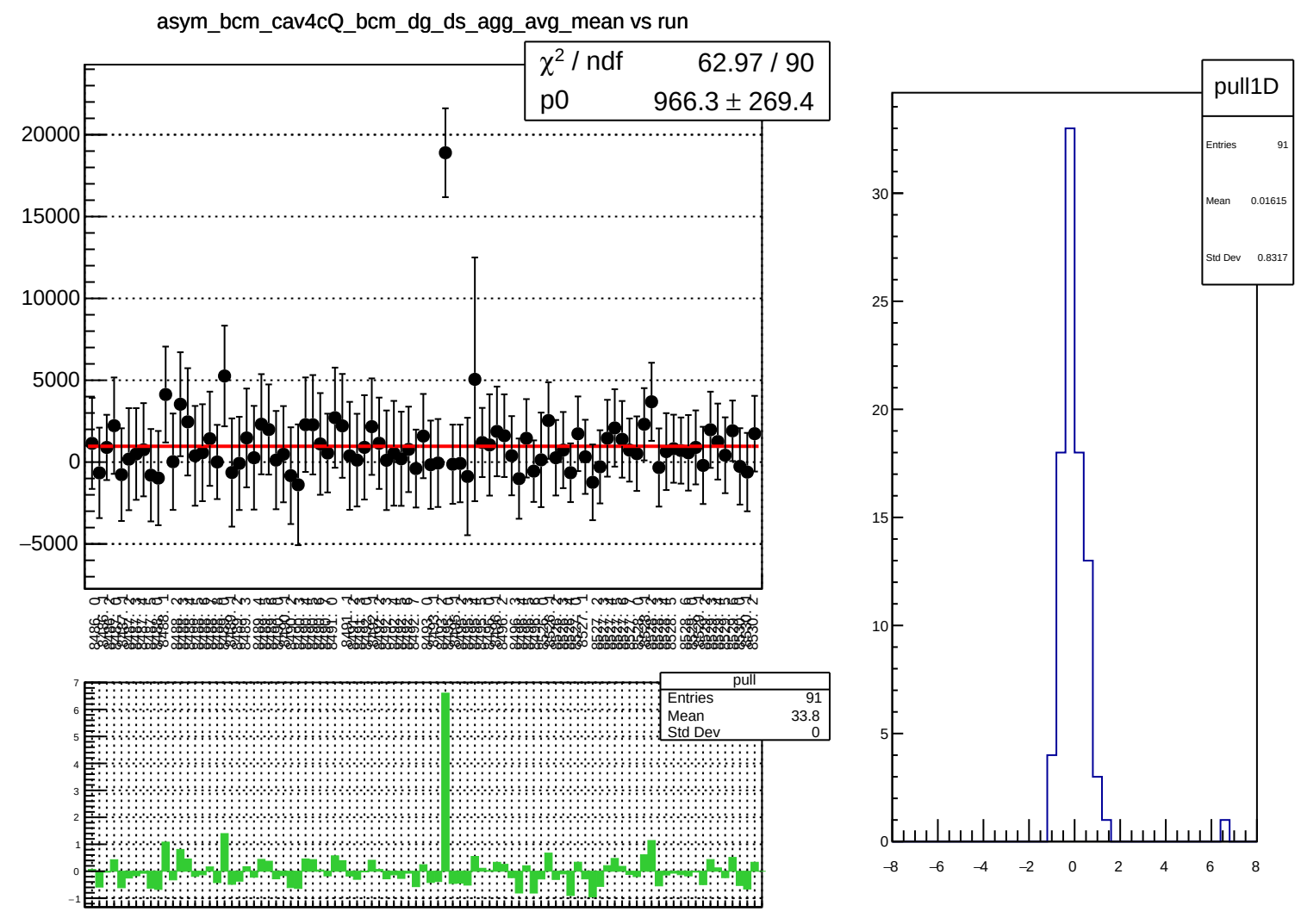

pull1D
Entries 91
Mean 0.01607
Std Dev 0.8167
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

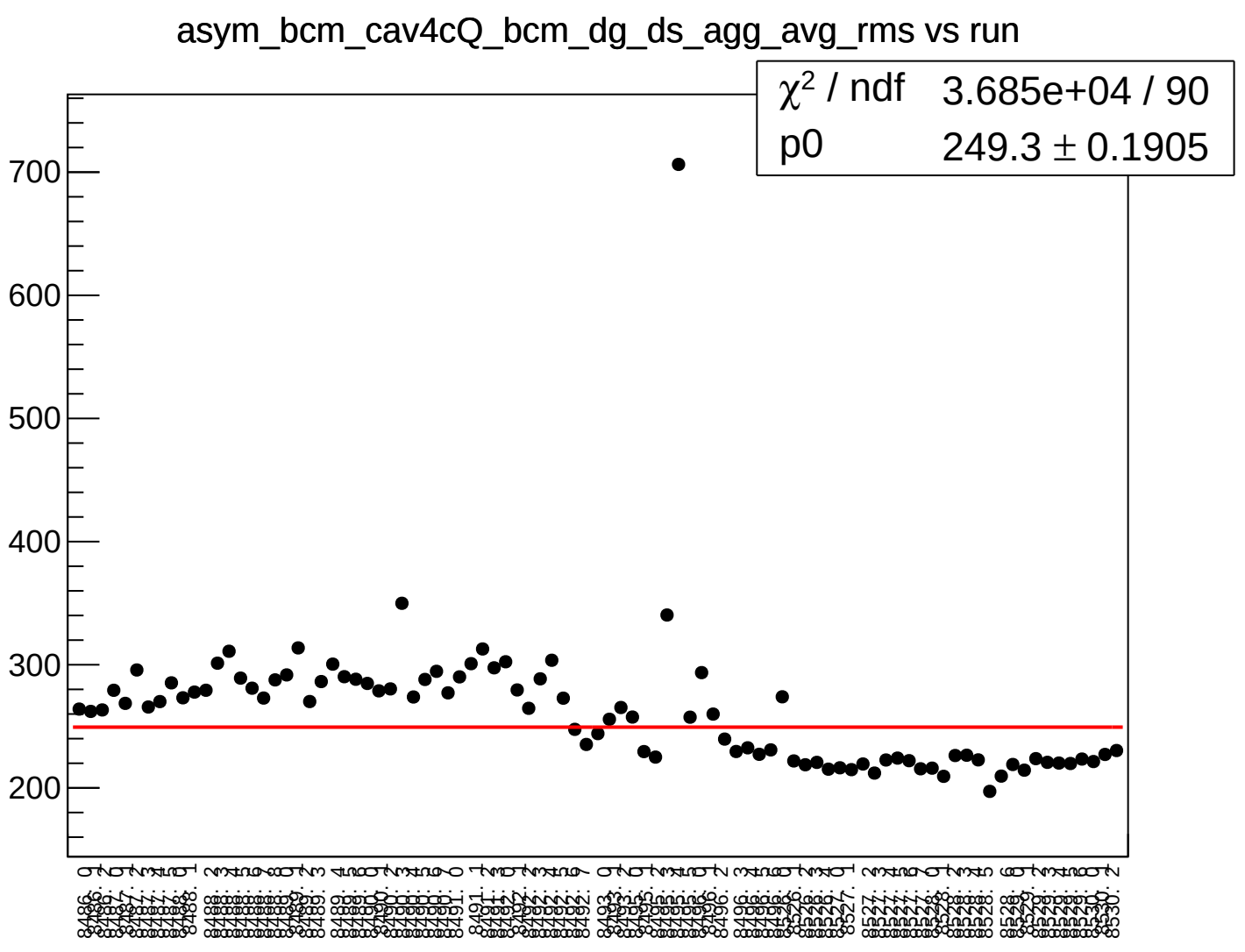

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 3.702e+04 / 90
p0 249.8 ± 0.1909
700
600
500
400
300
200

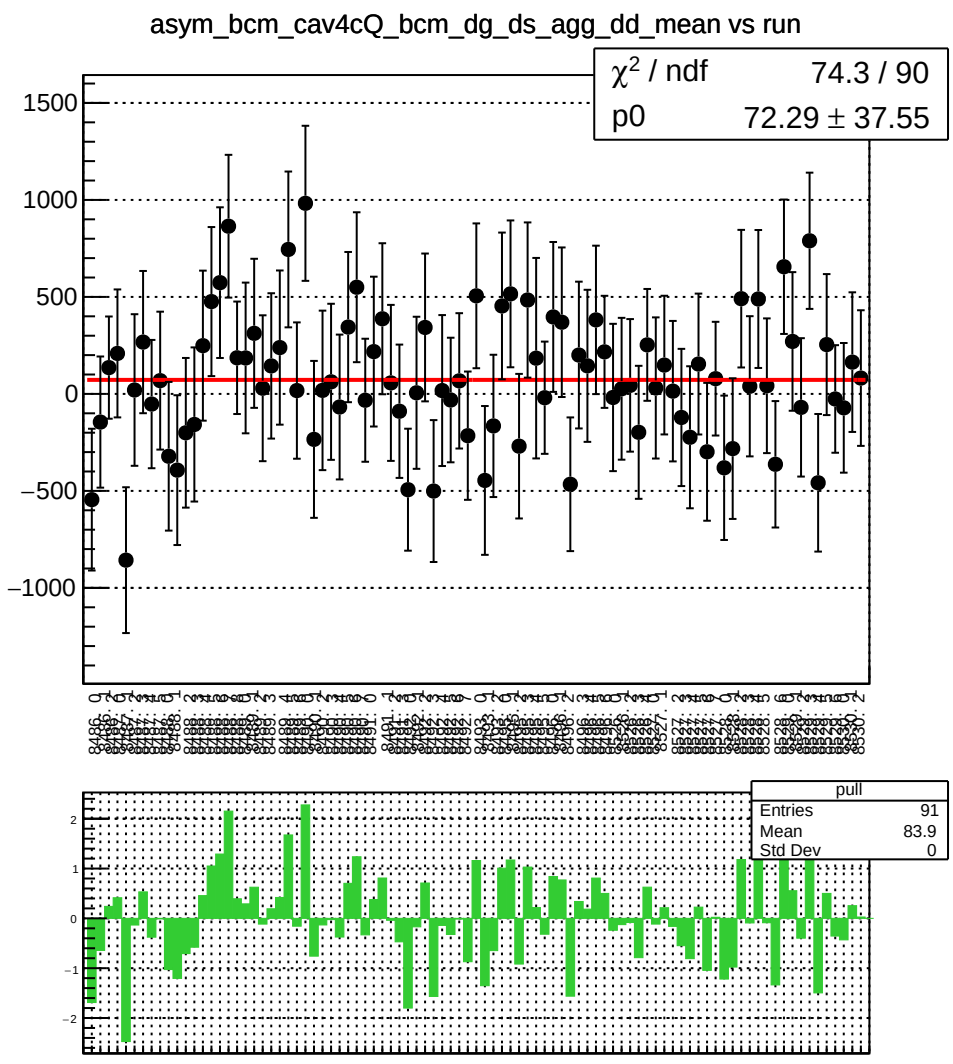

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 76.23 / 90
p0 102.5 ± 40.15
1500
1000
500
0
−500
−1000
pull
Entries 91
Mean 62.77
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

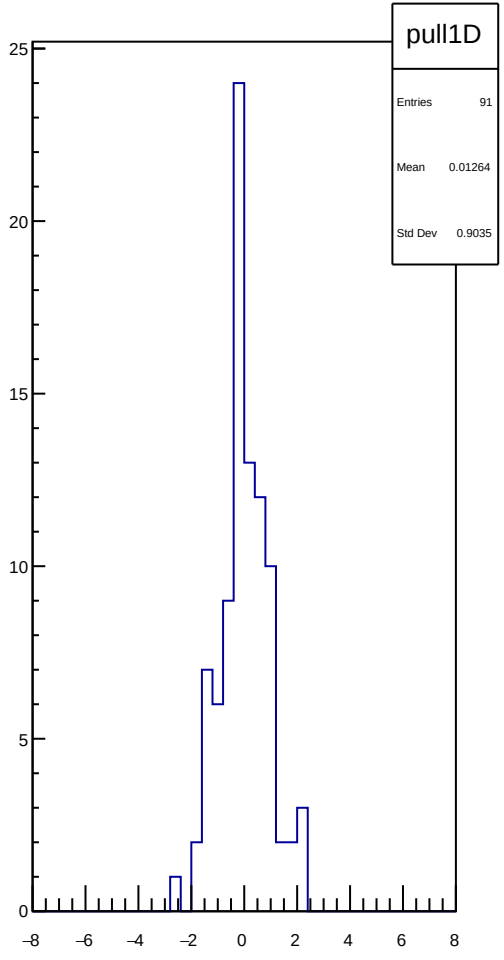

pull1D
Entries 91
Mean 0.01368
Std Dev 0.9151
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

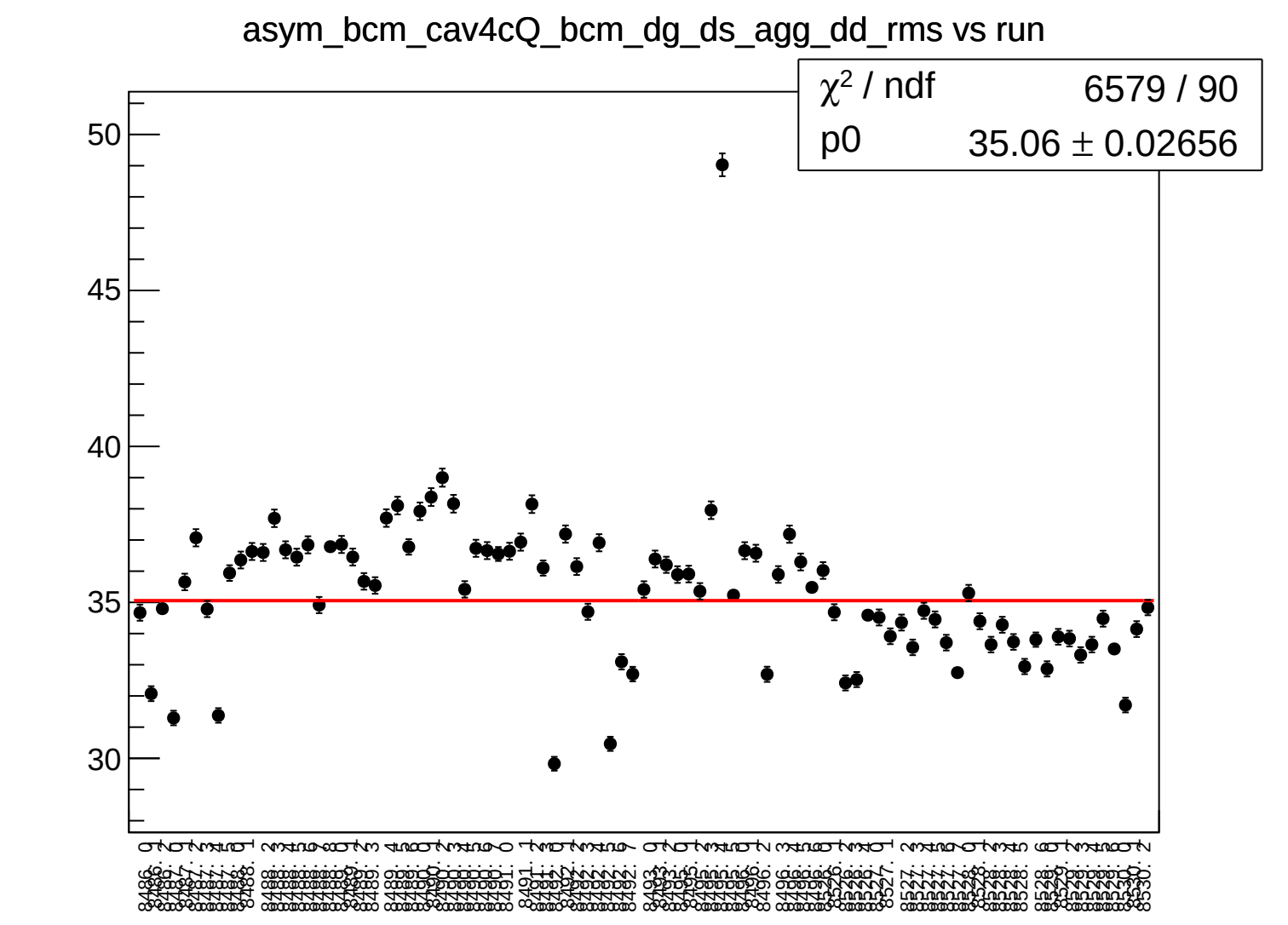

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 4623 / 90
p0 37.5 ± 0.02839
50
48
46
44
42
40
38
36
34
32

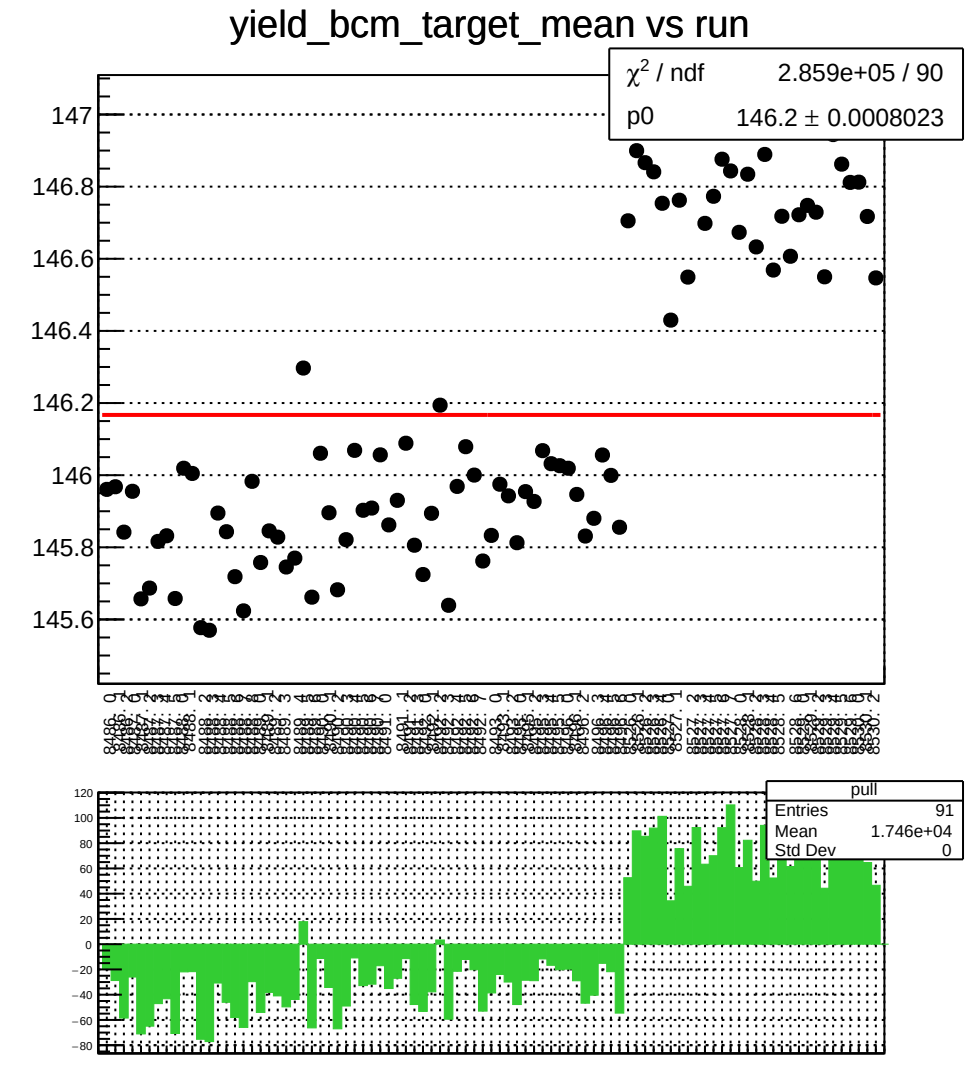

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 62.97 / 90
p0 966.3 ± 269.4
20000
15000
10000
5000
0
−5000
pull
Entries 91
Mean 33.8
Std Dev 0
pull1D
Entries 91
Mean 0.01615
Std Dev 0.8317
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

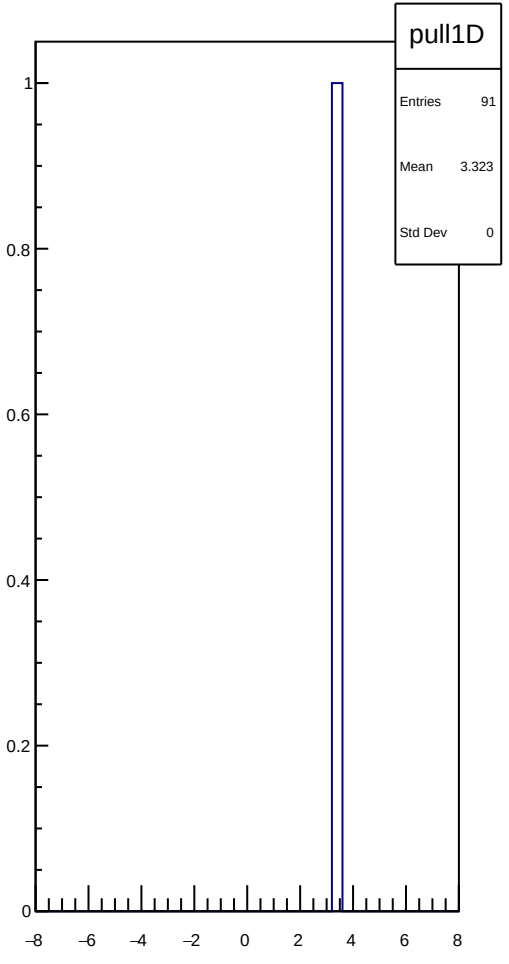

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 3.685e+04 / 90
p0 249.3 ± 0.1905
700
600
500
400
300
200

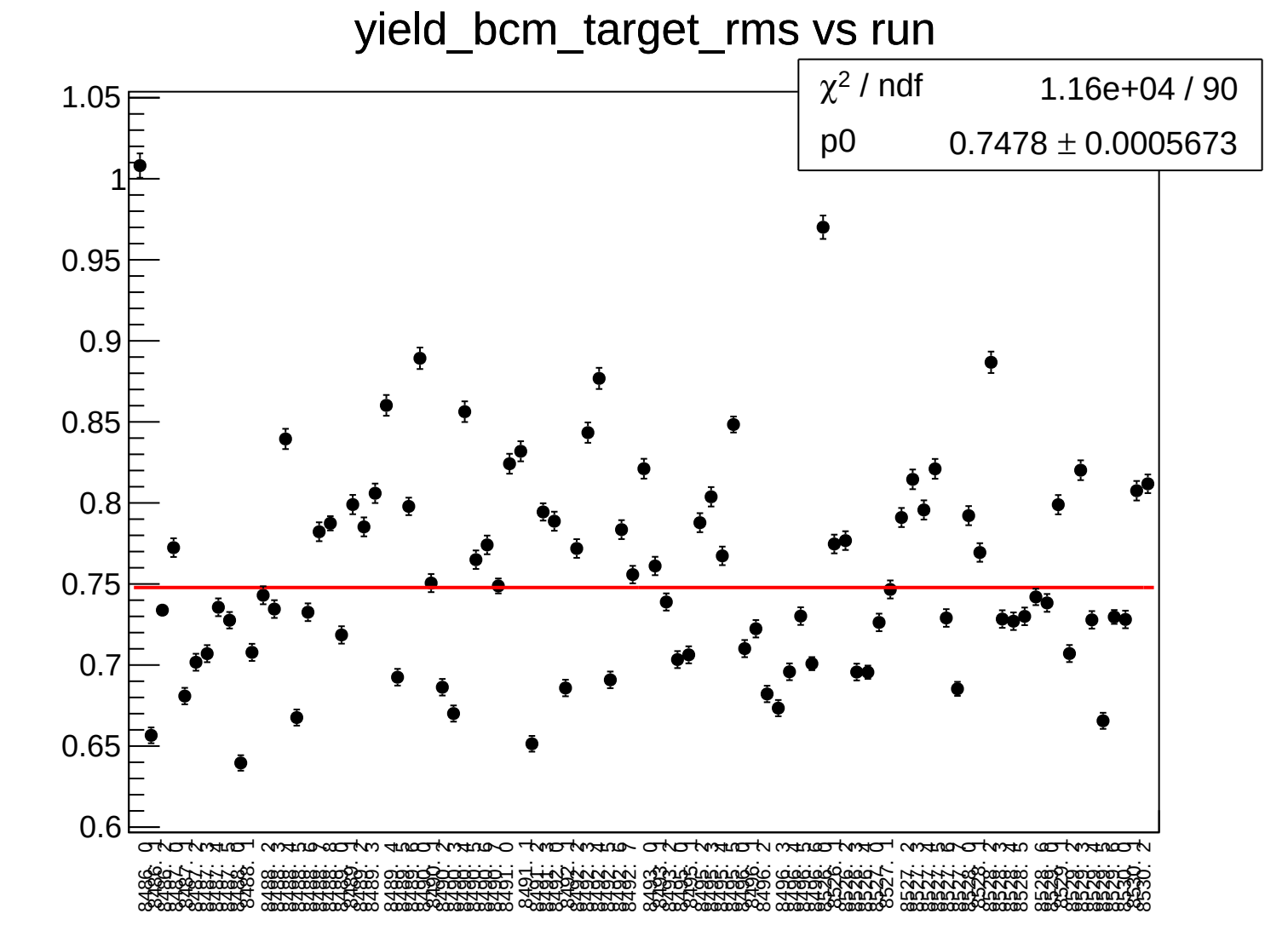

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 74.3 / 90
p0 72.29 ± 37.55
1500
1000
500
0
−500
−1000
pull
Entries 91
Mean 83.9
Std Dev 0
2
1
0
−1
−2

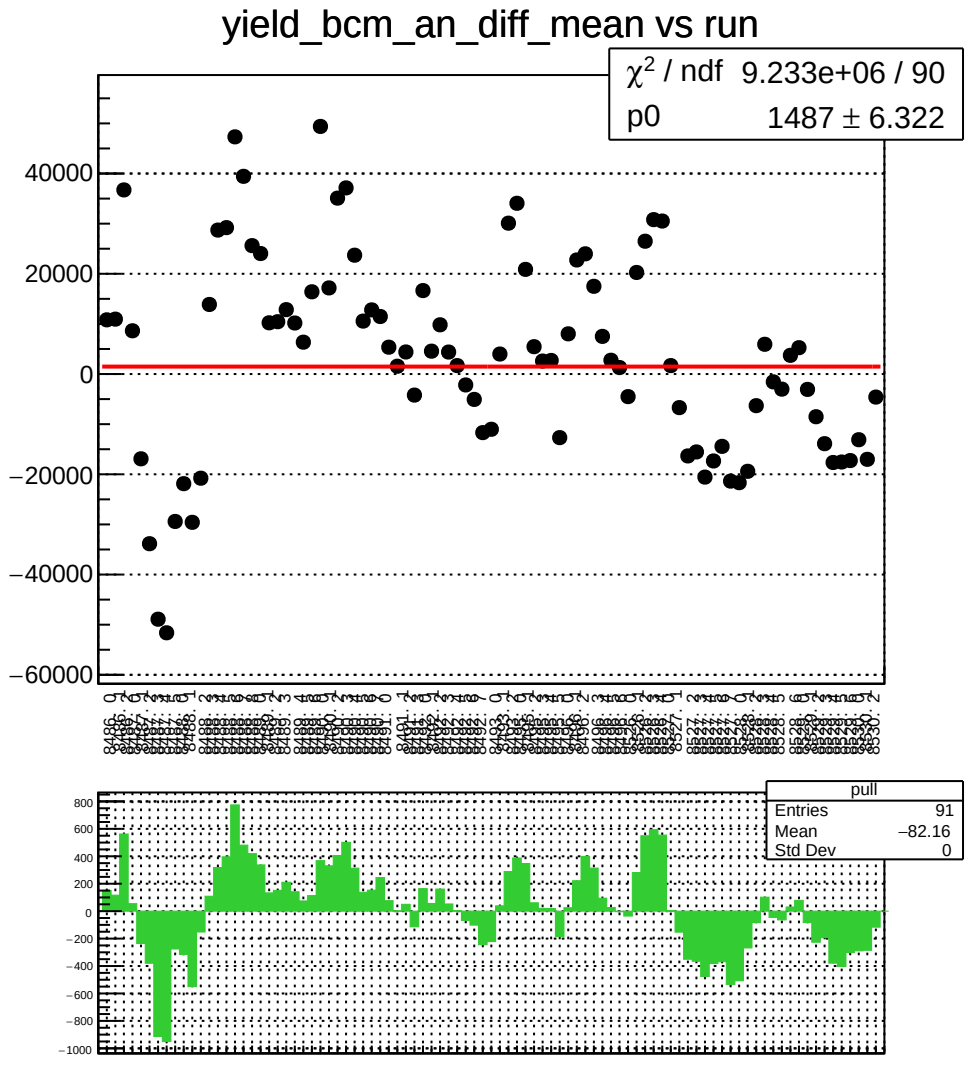

pull1D
Entries 91
Mean 0.01264
Std Dev 0.9035
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

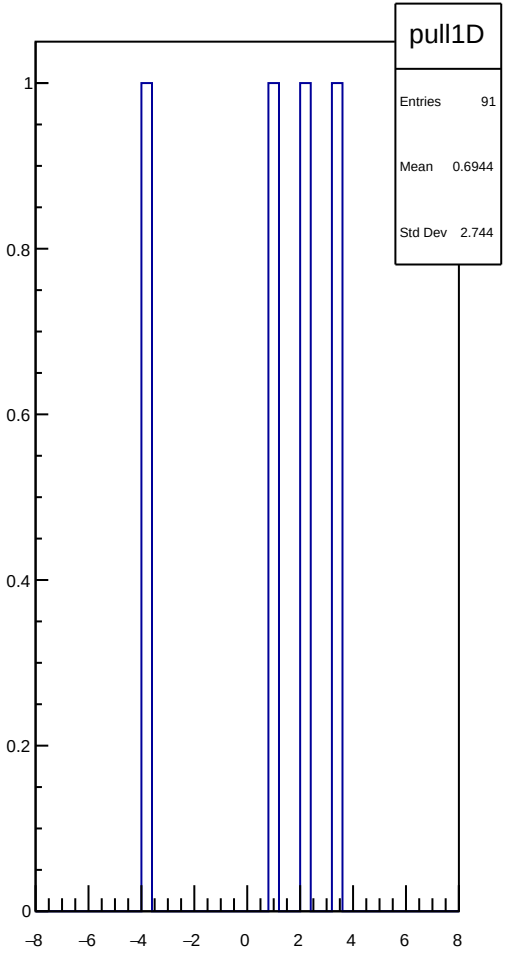

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 6579 / 90
p0 35.06 ± 0.02656
50
45
40
35
30

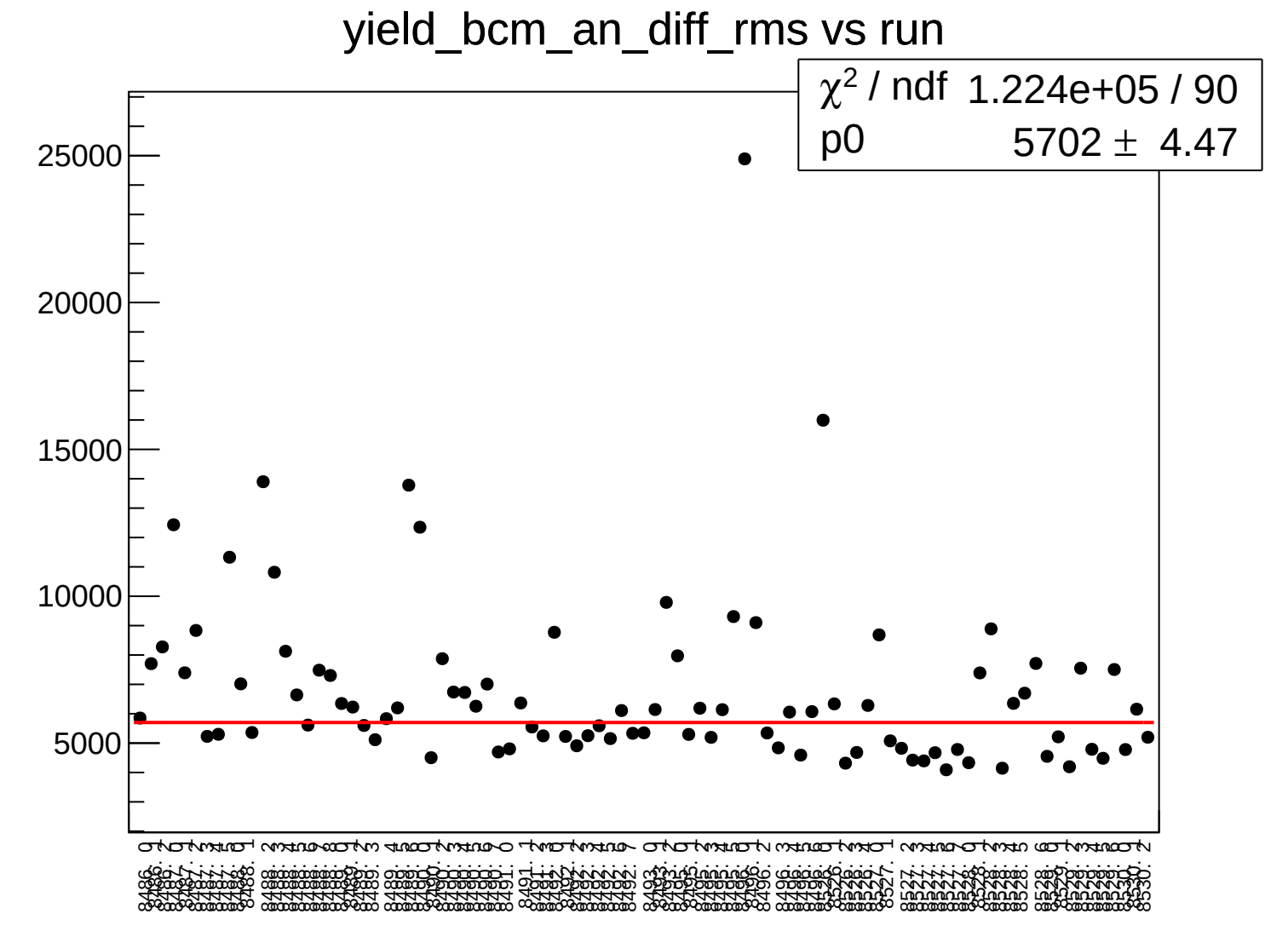

yield_bcm_target_mean vs run
χ² / ndf 2.859e+05 / 90
p0 146.2 ± 0.0008023
147
146.8
146.6
146.4
146.2
146
145.8
145.6
pull
Entries 91
Mean 1.746e+04
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60
−80

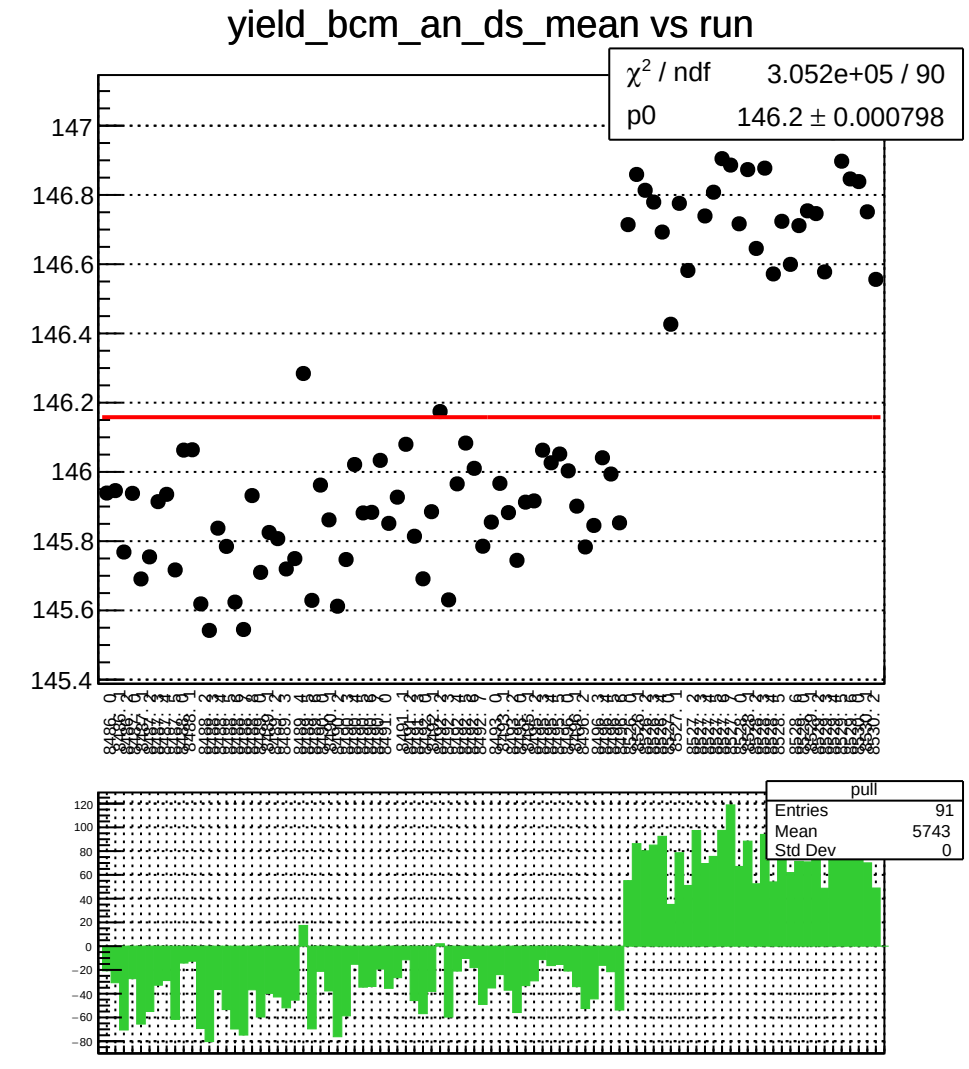

pull1D
Entries 91
Mean 3.323
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

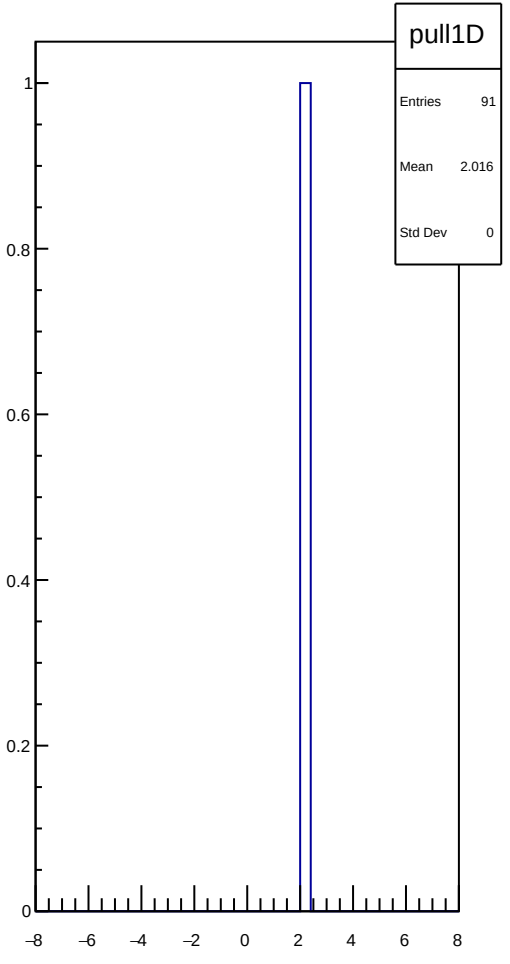

yield_bcm_target_rms vs run
χ² / ndf 1.16e+04 / 90
p0 0.7478 ± 0.0005673
1.05
1
0.95
0.9
0.85
0.8
0.75
0.7
0.65
0.6

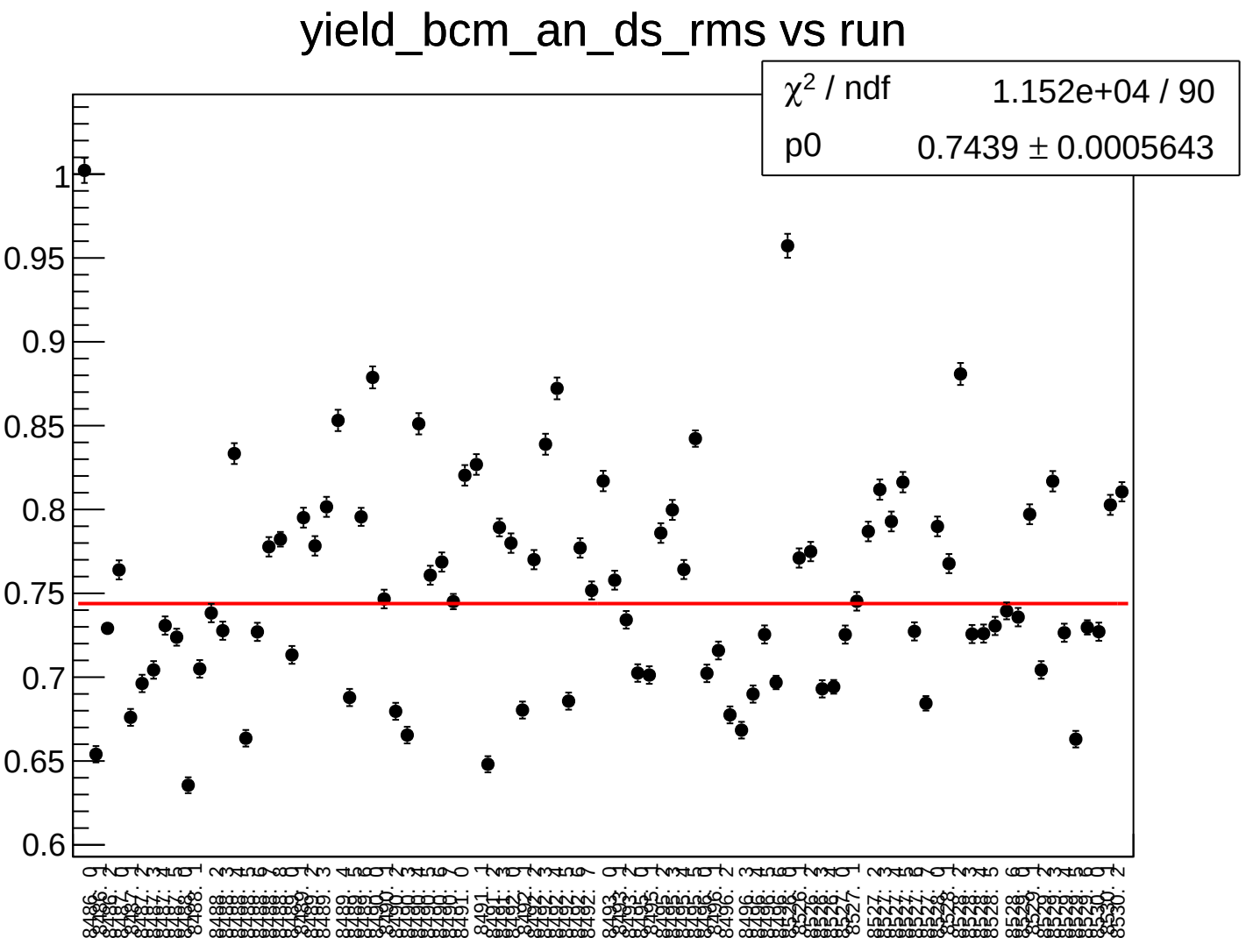

yield_bcm_an_diff_mean vs run
χ² / ndf 9.233e+06 / 90
p0 1487 ± 6.322
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −82.16
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000

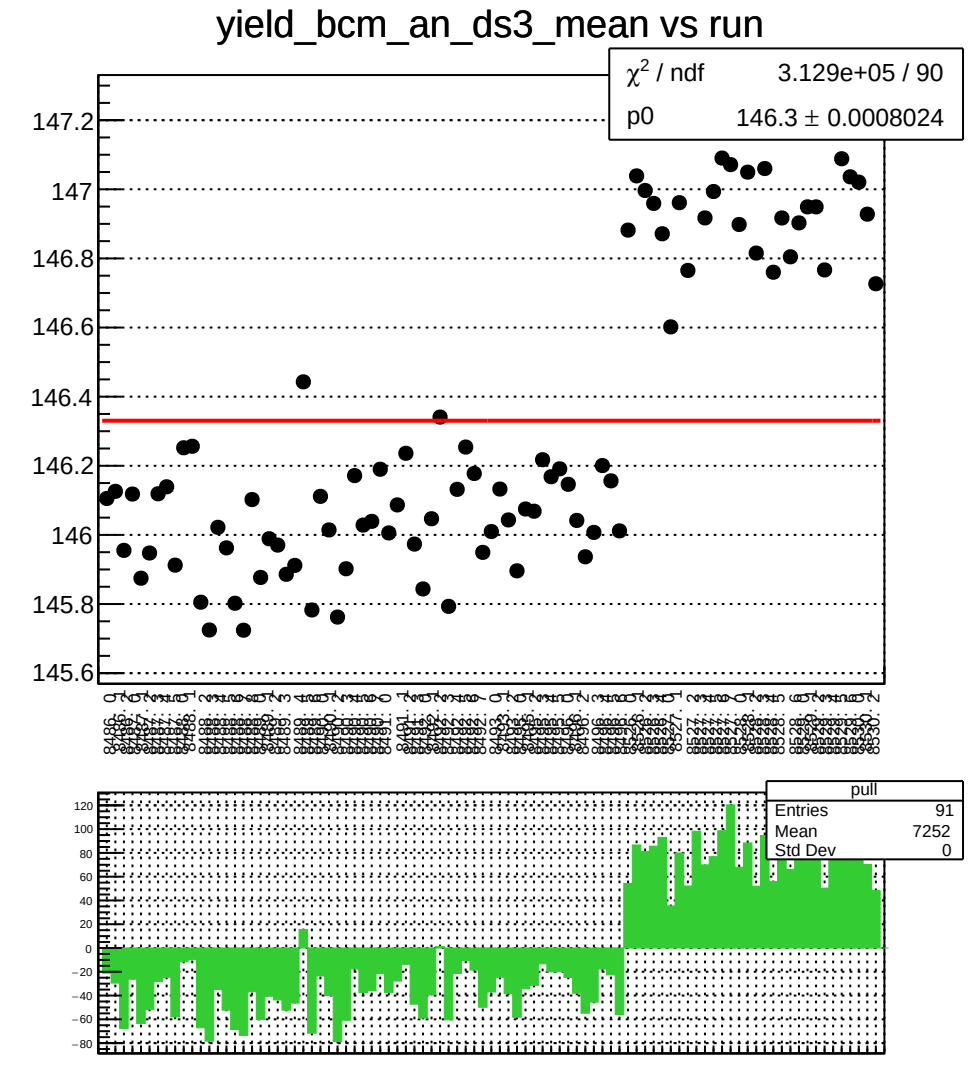

pull1D
Entries 91
Mean 0.6944
Std Dev 2.744
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

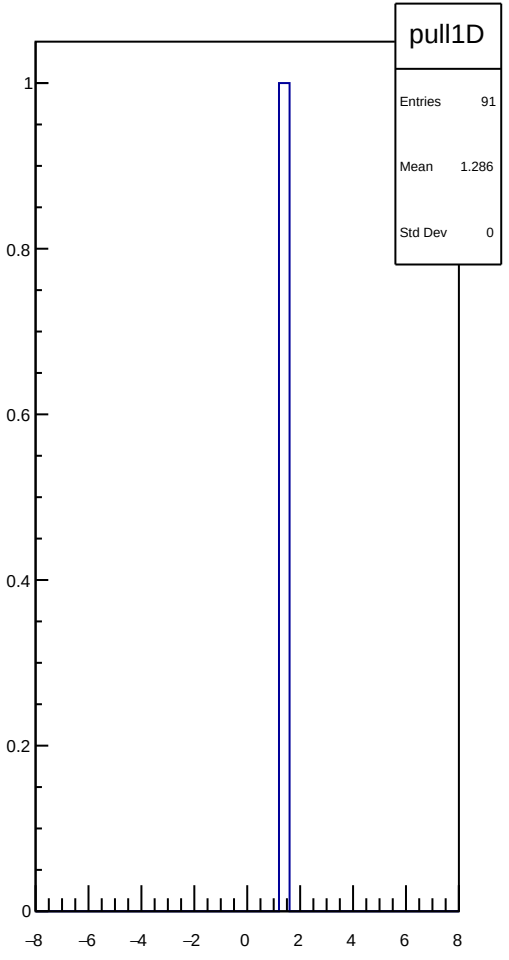

yield_bcm_an_diff_rms vs run
χ² / ndf 1.224e+05 / 90
p0 5702 ± 4.47
25000
20000
15000
10000
5000

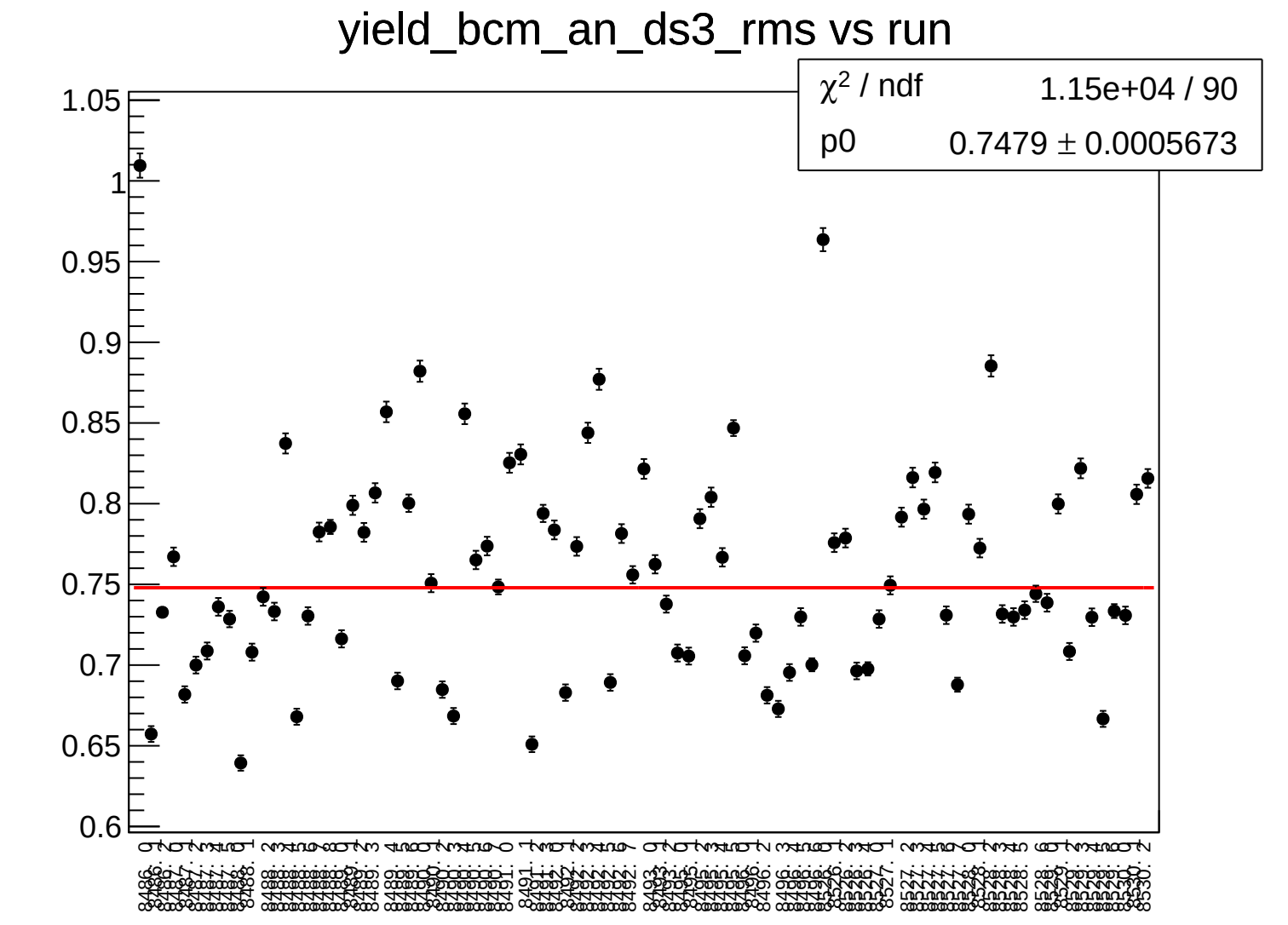

yield_bcm_an_ds_mean vs run
χ² / ndf 3.052e+05 / 90
p0 146.2 ± 0.000798
147
146.8
146.6
146.4
146.2
146
145.8
145.6
145.4
pull
Entries 91
Mean 5743
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60
−80

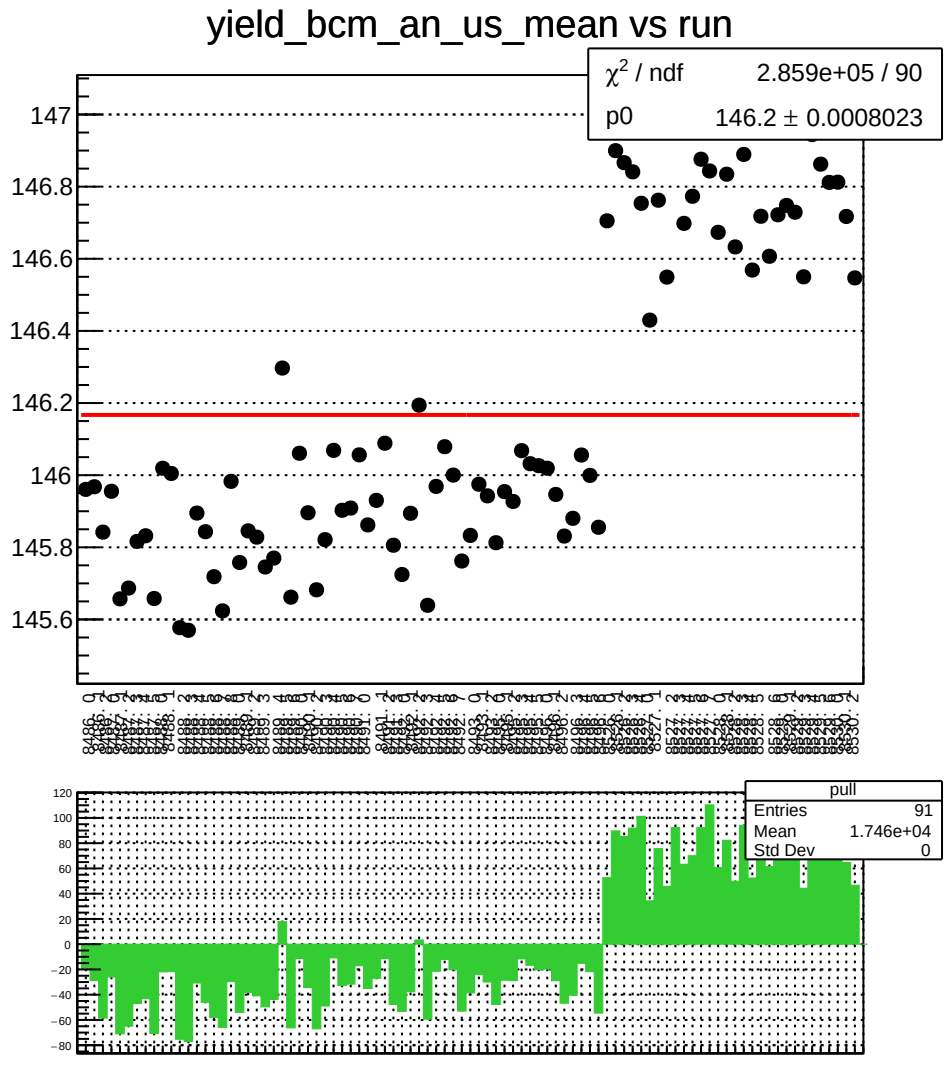

pull1D
Entries 91
Mean 2.016
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

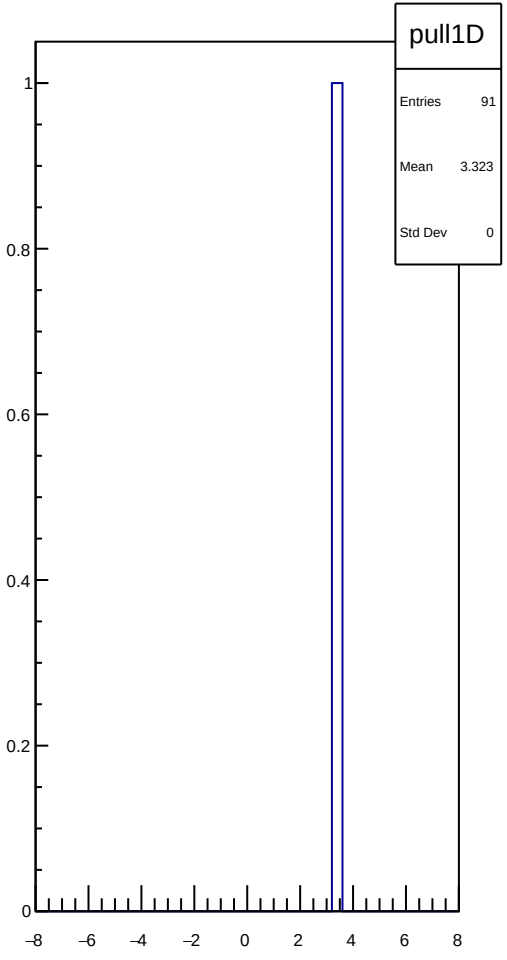

yield_bcm_an_ds_rms vs run
χ² / ndf 1.152e+04 / 90
p0 0.7439 ± 0.0005643
1
0.95
0.9
0.85
0.8
0.75
0.7
0.65
0.6

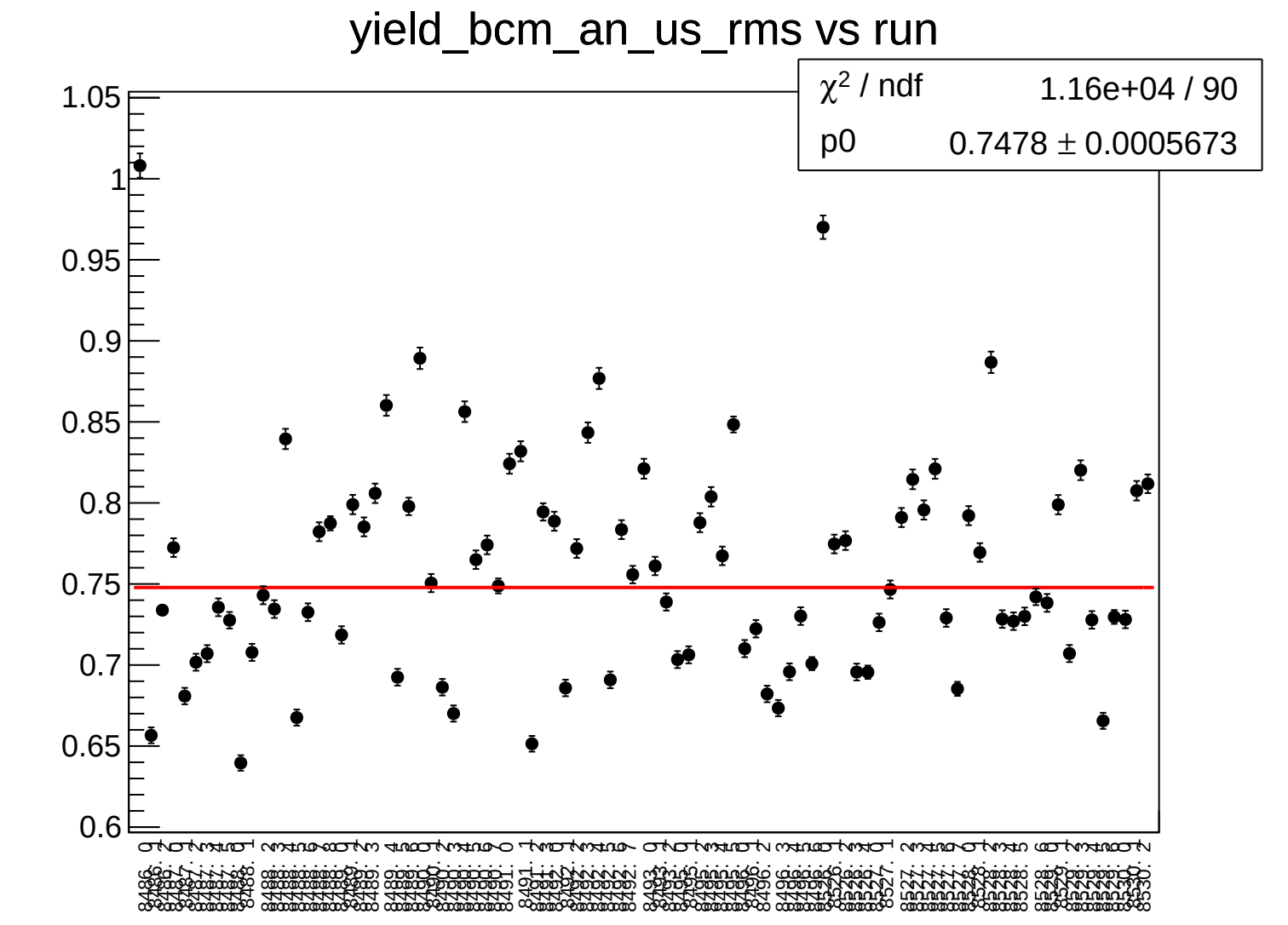

yield_bcm_an_ds3_mean vs run
χ² / ndf 3.129e+05 / 90
p0 146.3 ± 0.0008024
147.2
147
146.8
146.6
146.4
146.2
146
145.8
145.6
pull
Entries 91
Mean 7252
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60
−80

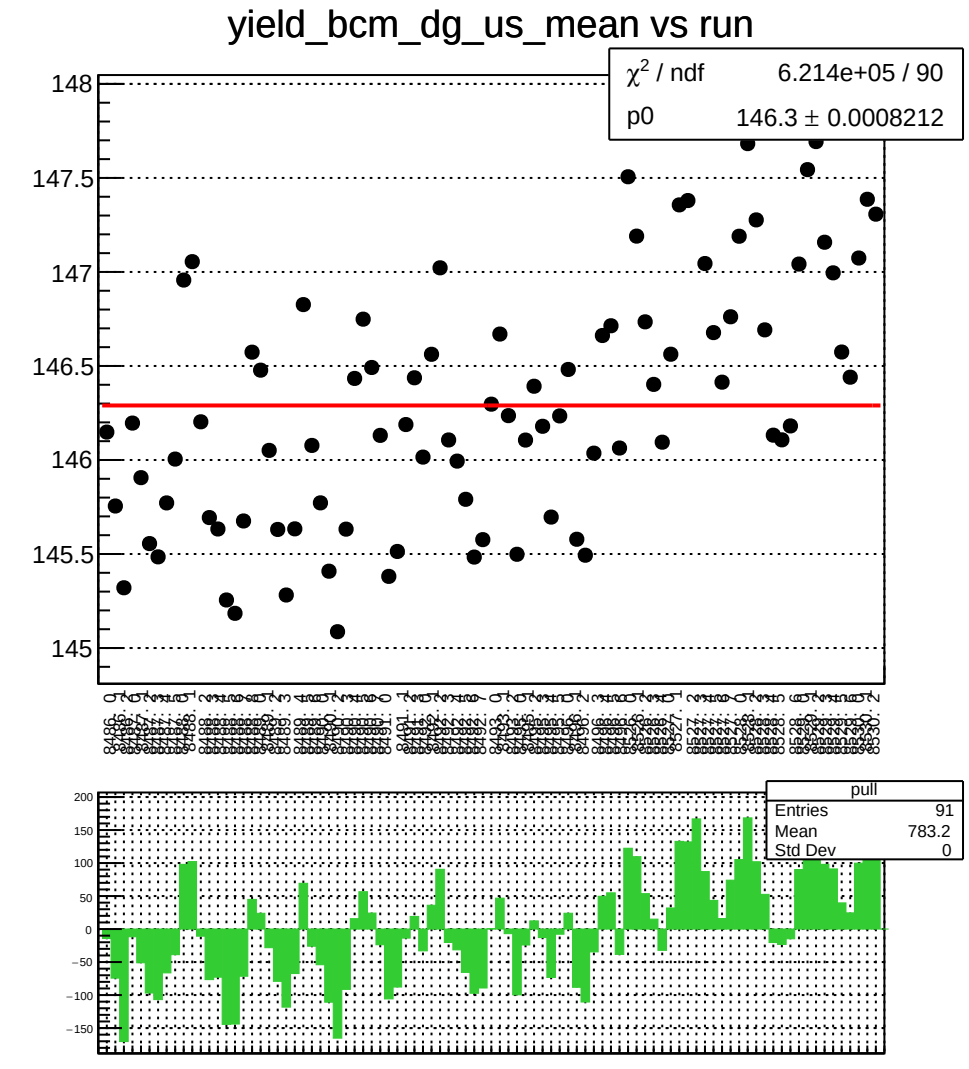

pull1D
Entries 91
Mean 1.286
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

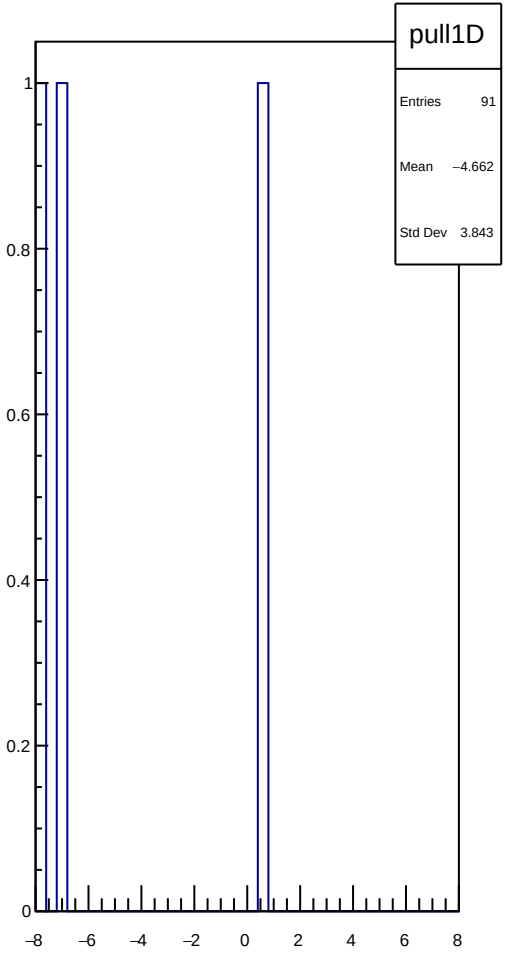

yield_bcm_an_ds3_rms vs run
χ² / ndf 1.15e+04 / 90
p0 0.7479 ± 0.0005673
1.05
1
0.95
0.9
0.85
0.8
0.75
0.7
0.65
0.6

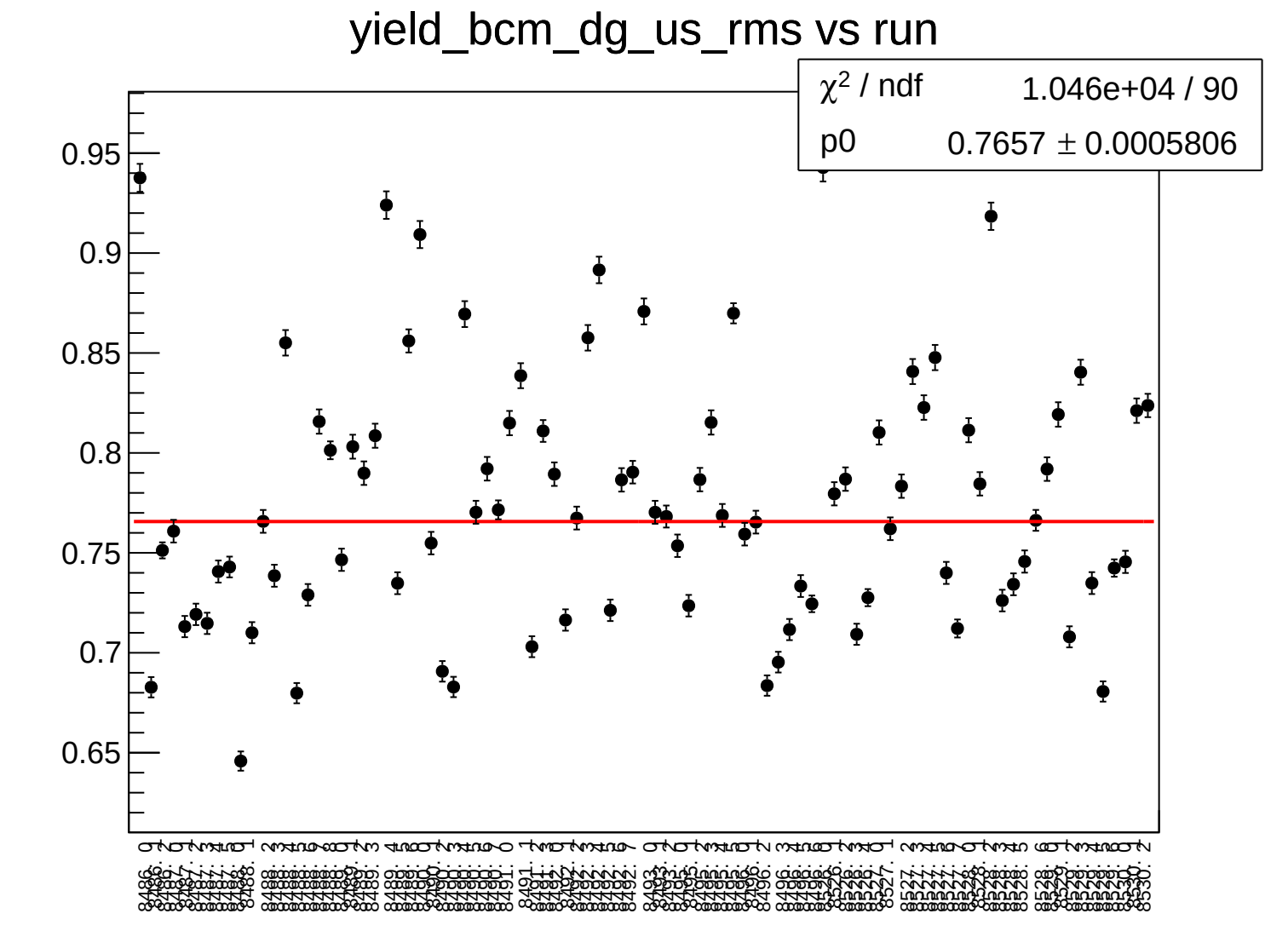

yield_bcm_an_us_mean vs run
χ² / ndf 2.859e+05 / 90
p0 146.2 ± 0.0008023
147
146.8
146.6
146.4
146.2
146
145.8
145.6
pull
Entries 91
Mean 1.746e+04
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60
−80

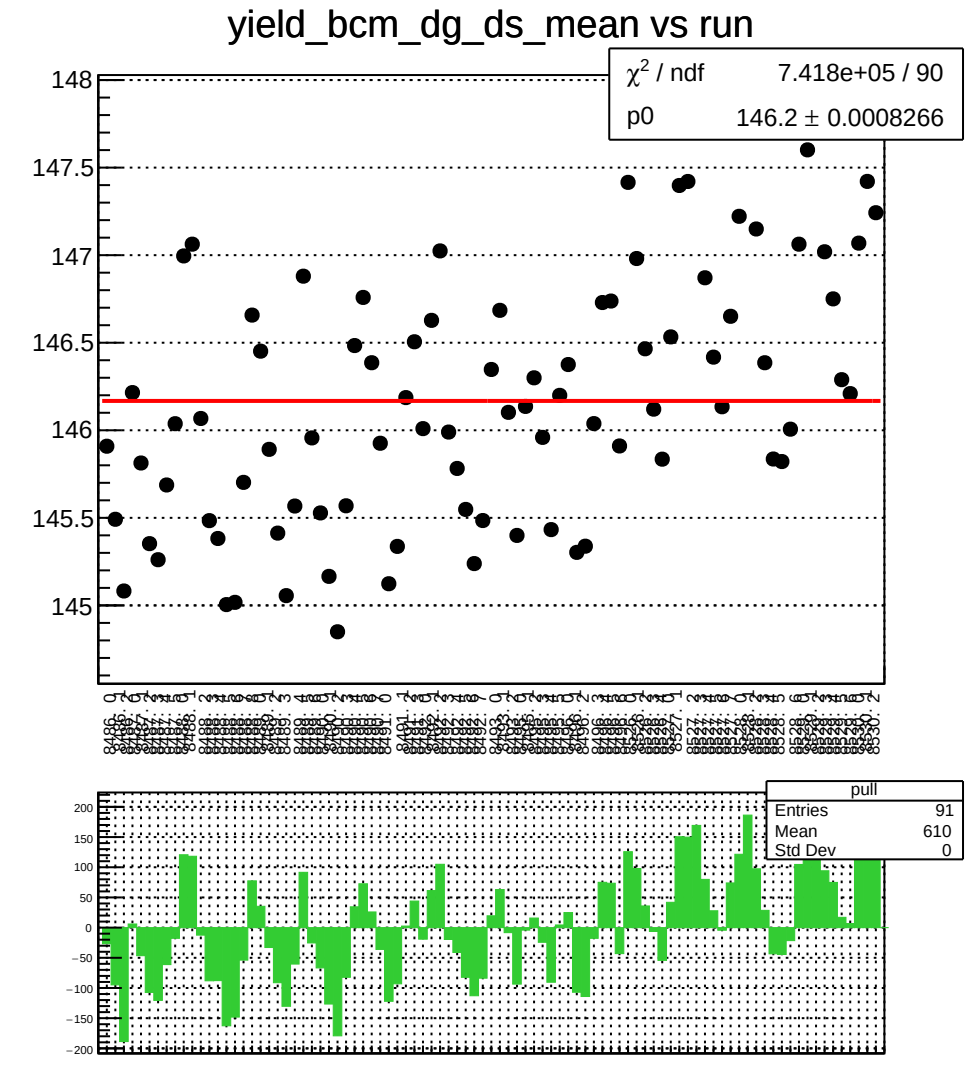

pull1D
Entries 91
Mean 3.323
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

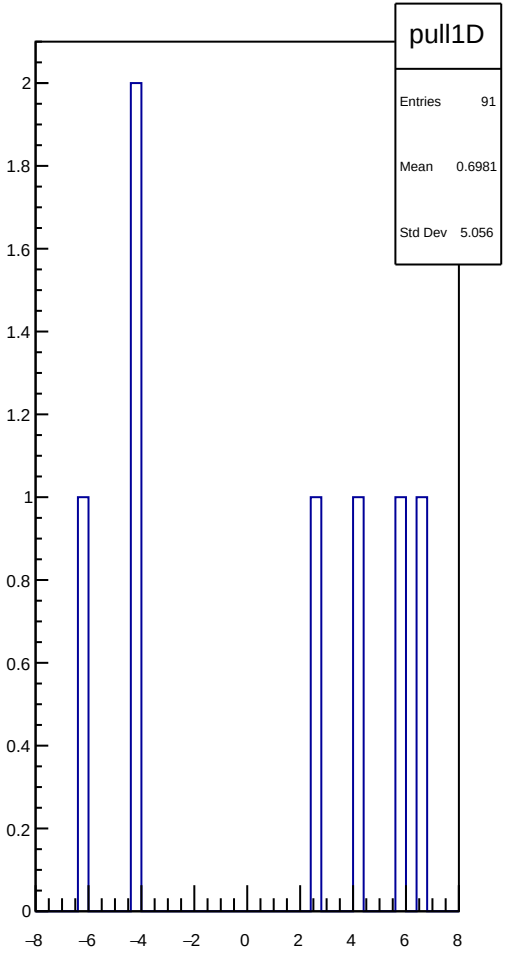

yield_bcm_an_us_rms vs run
χ² / ndf 1.16e+04 / 90
p0 0.7478 ± 0.0005673
1.05
1
0.95
0.9
0.85
0.8
0.75
0.7
0.65
0.6

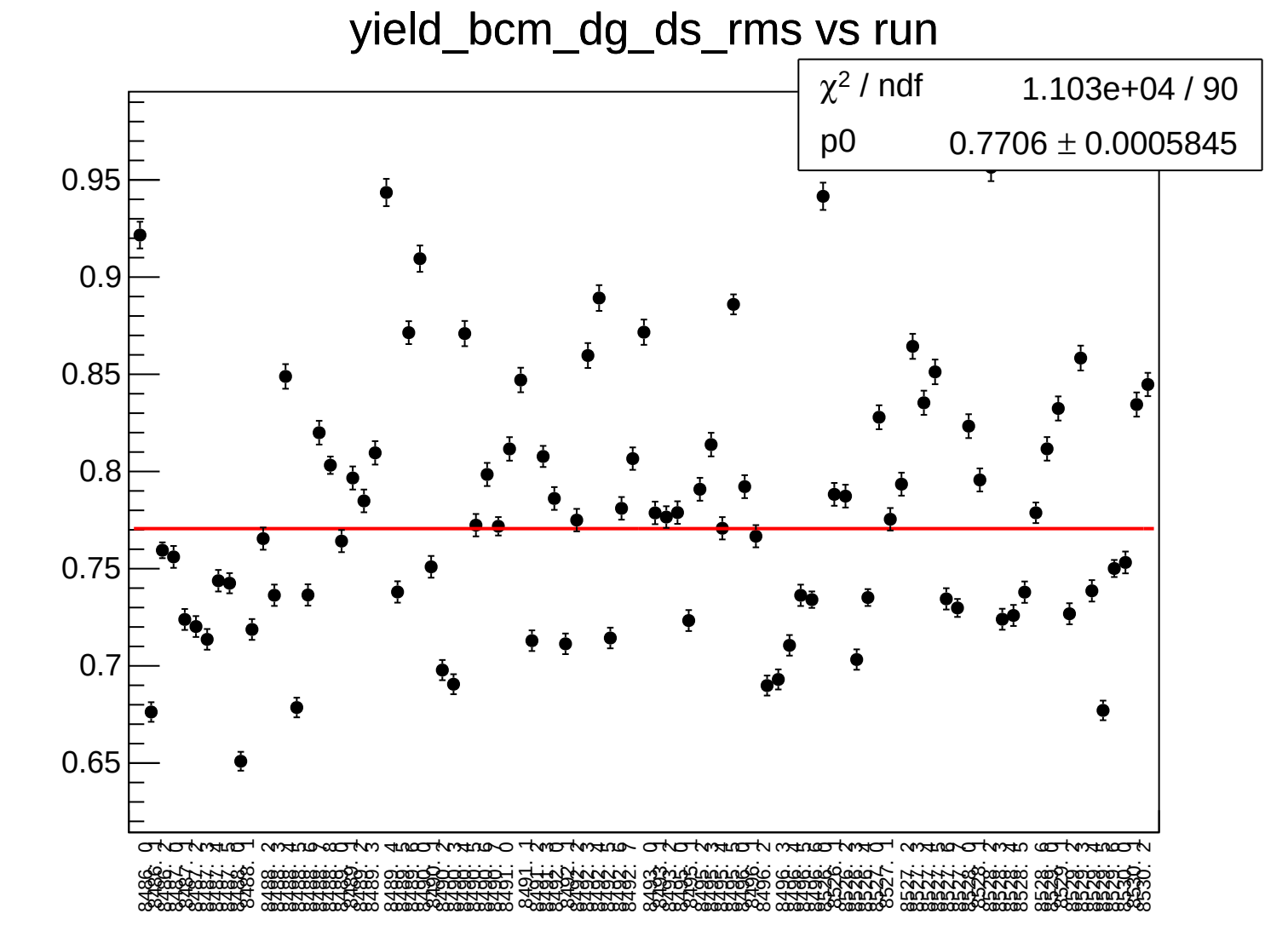

yield_bcm_dg_us_mean vs run
χ² / ndf 6.214e+05 / 90
p0 146.3 ± 0.0008212
148
147.5
147
146.5
146
145.5
145
pull
Entries 91
Mean 783.2
Std Dev 0
200
150
100
50
0
−50
−100
−150

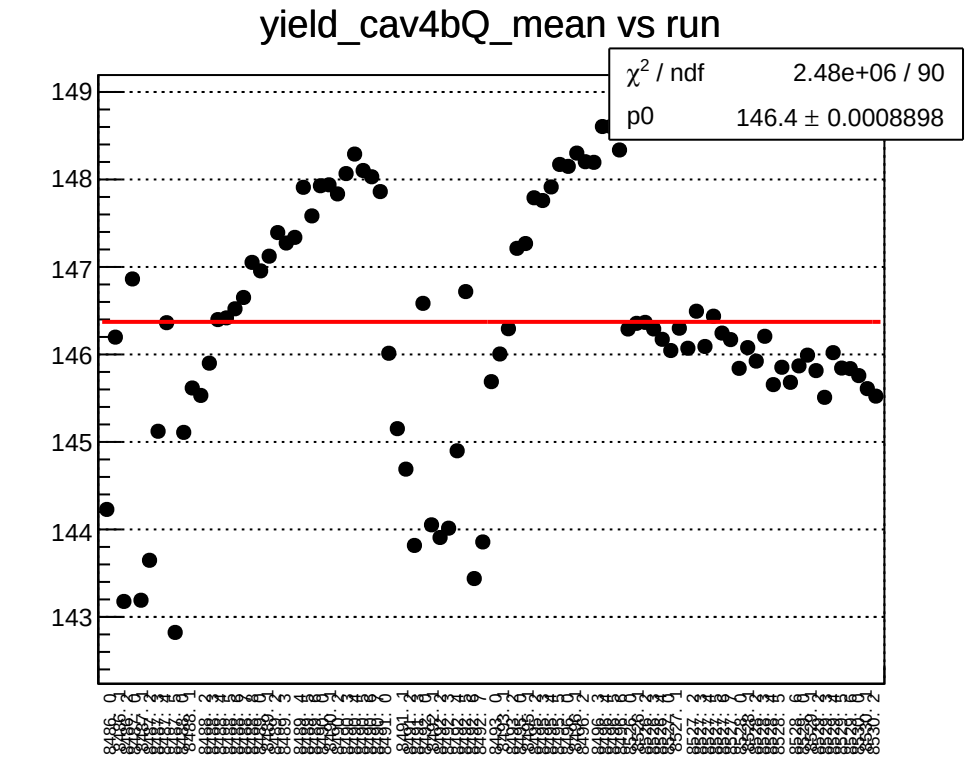

pull1D
Entries 91
Mean −4.662
Std Dev 3.843
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

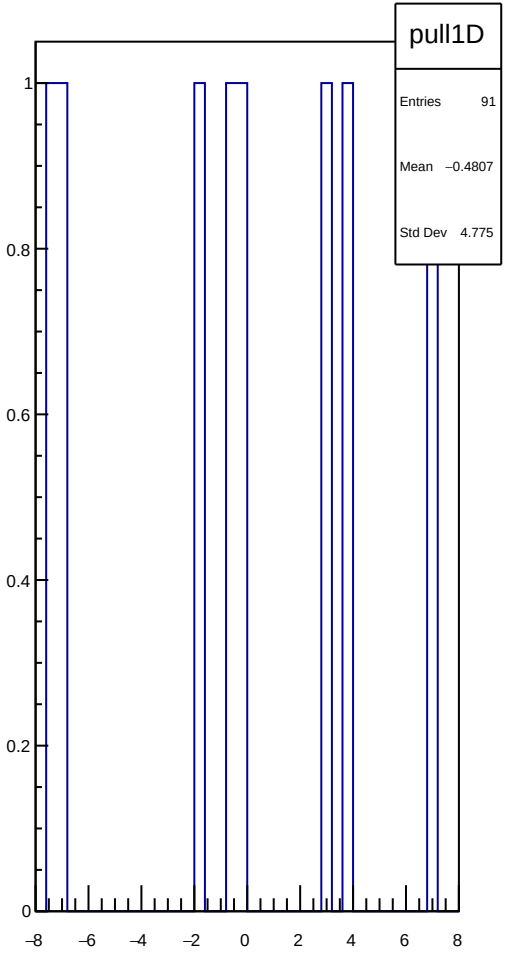

yield_bcm_dg_us_rms vs run
χ² / ndf 1.046e+04 / 90
p0 0.7657 ± 0.0005806
0.95
0.9
0.85
0.8
0.75
0.7
0.65

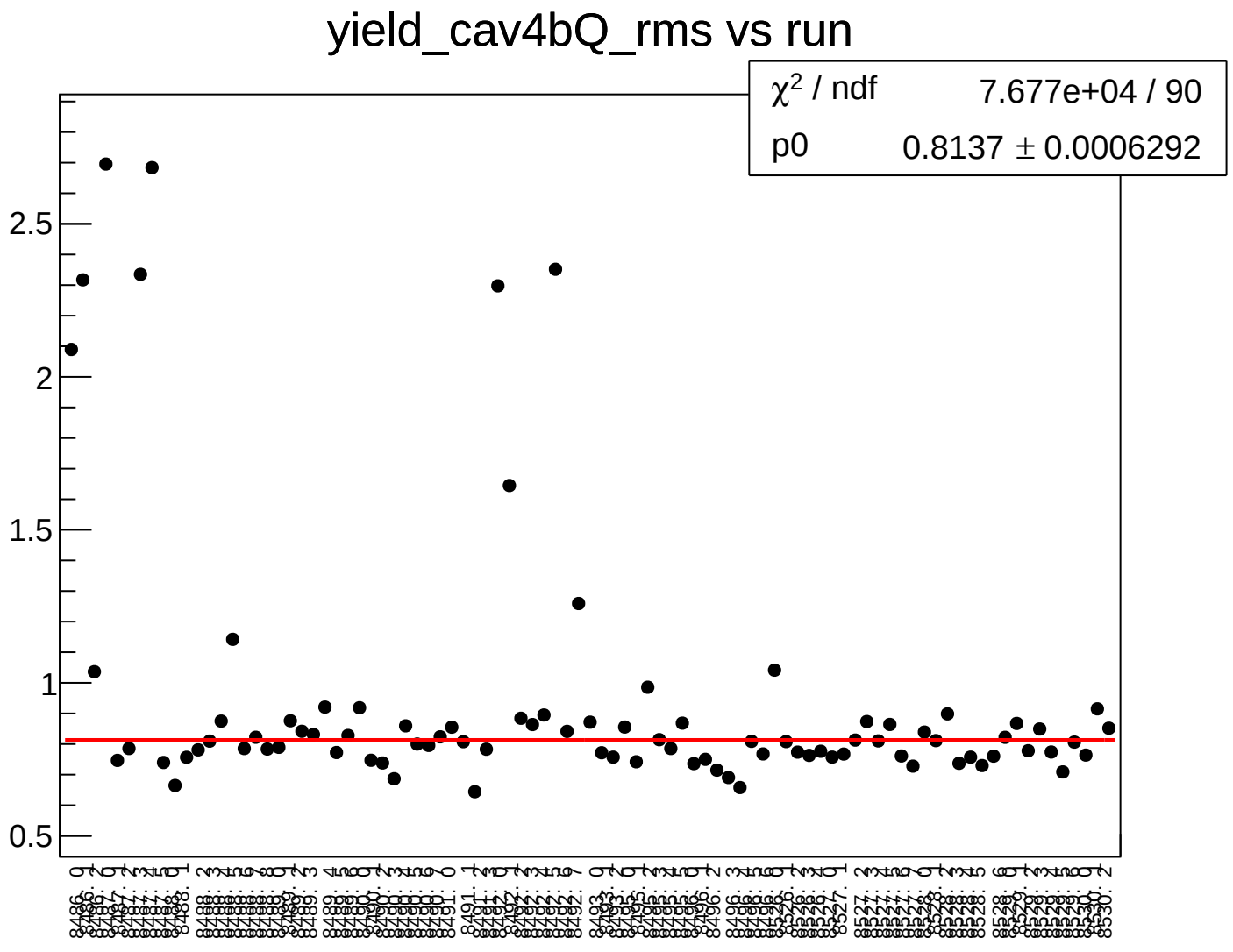

yield_bcm_dg_ds_mean vs run
χ² / ndf 7.418e+05 / 90
p0 146.2 ± 0.0008266
148
147.5
147
146.5
146
145.5
145
pull
Entries 91
Mean 610
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

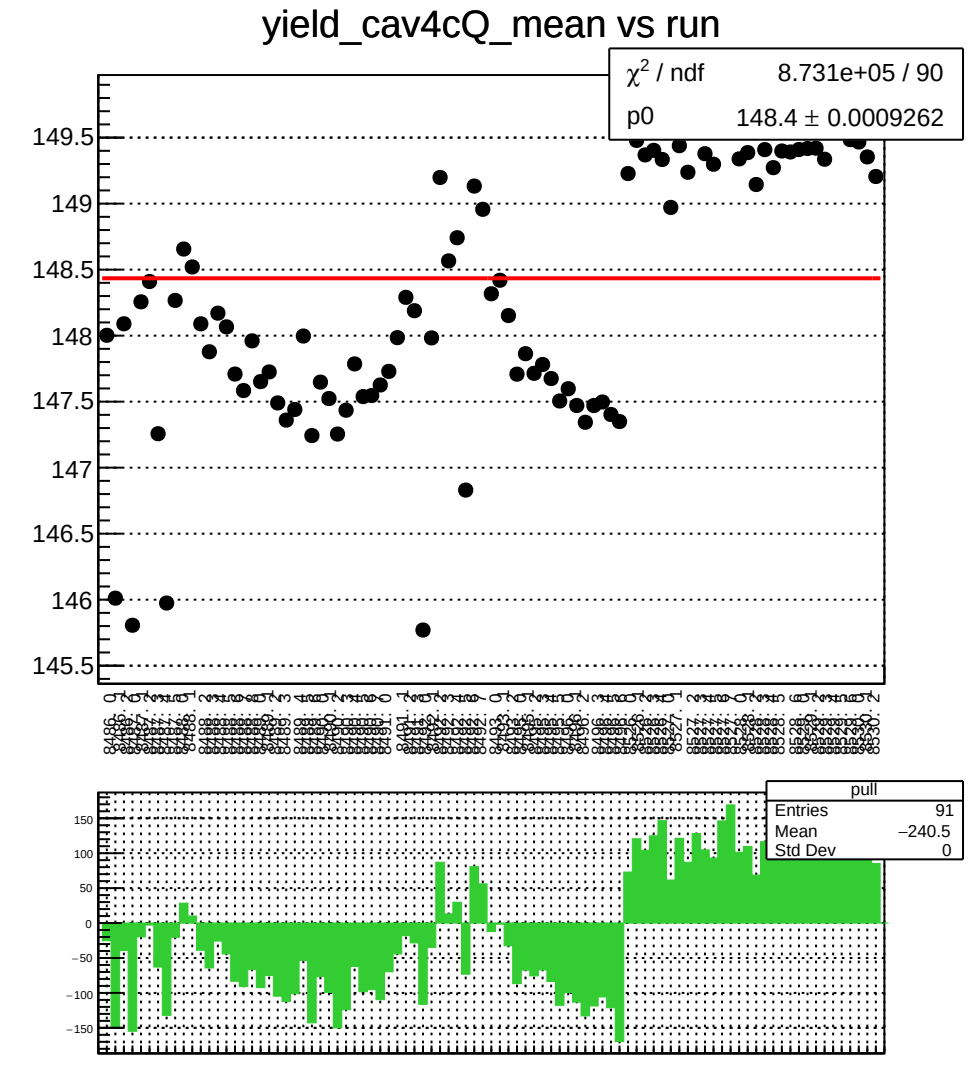

pull1D
Entries 91
Mean 0.6981
Std Dev 5.056
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

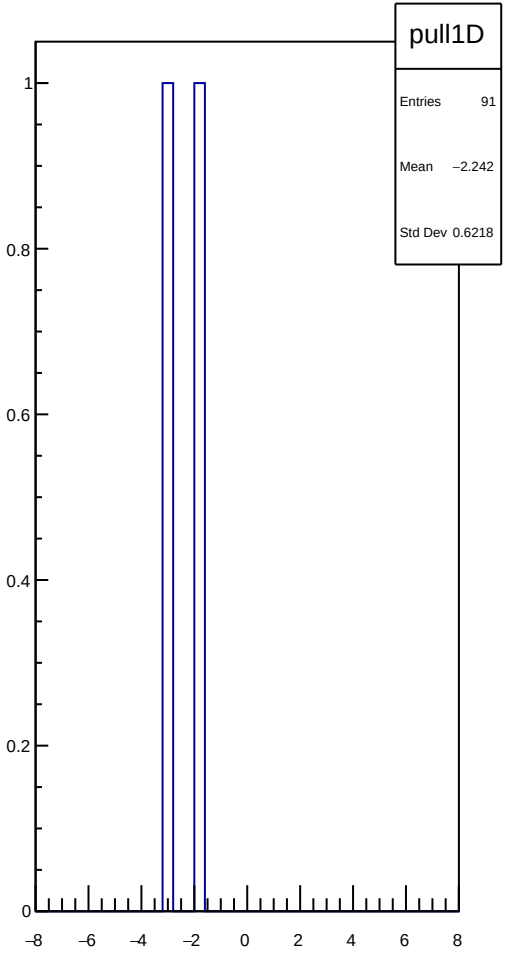

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.103e+04 / 90
p0 0.7706 ± 0.0005845
0.95
0.9
0.85
0.8
0.75
0.7
0.65

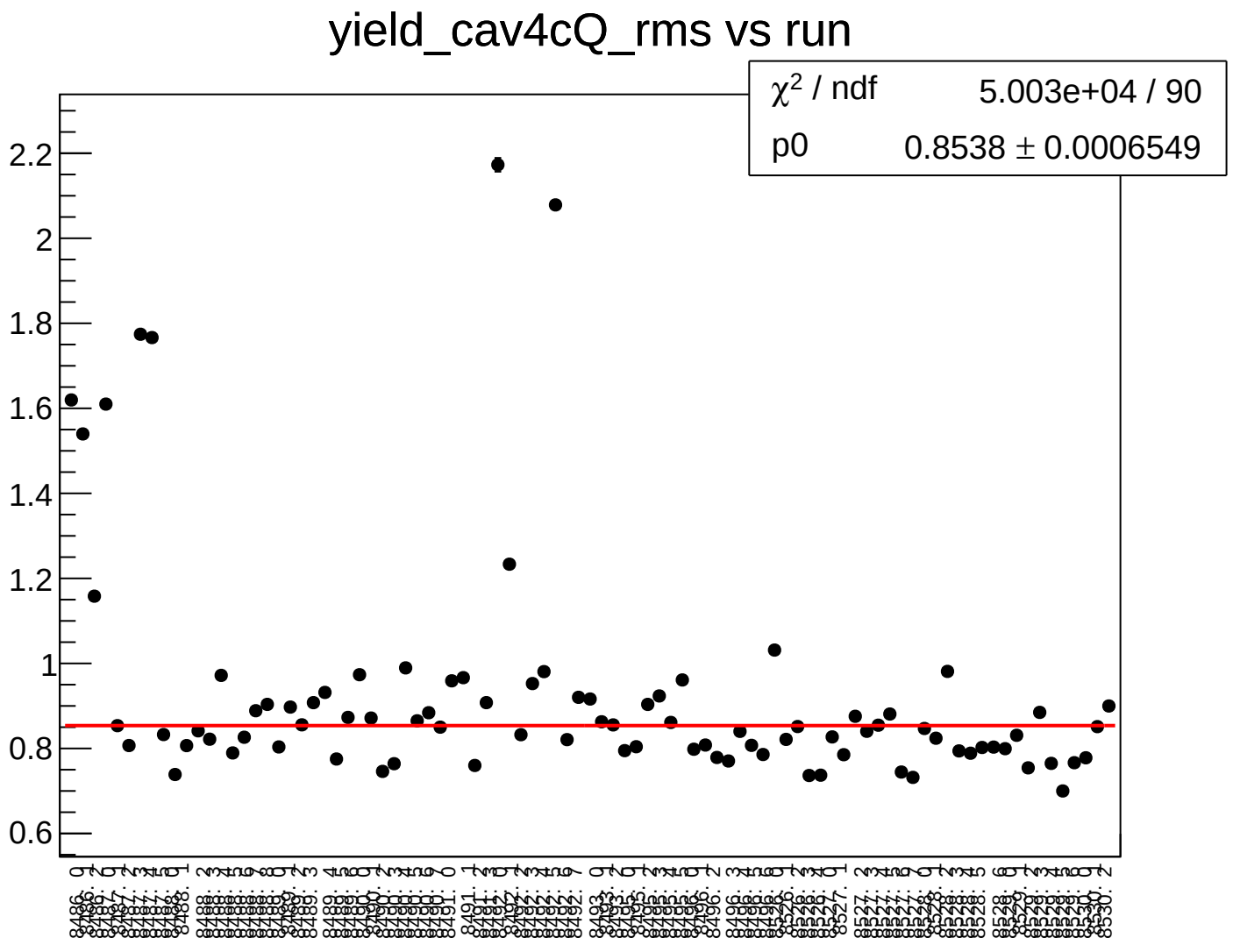

yield_cav4bQ_mean vs run
χ² / ndf 2.48e+06 / 90
p0 146.4 ± 0.0008898
149
148
147
146
145
144
143
pull
Entries 91
Mean −40.89
Std Dev 60.8
300
200
100
0
−100
−200
−300
−400
−500

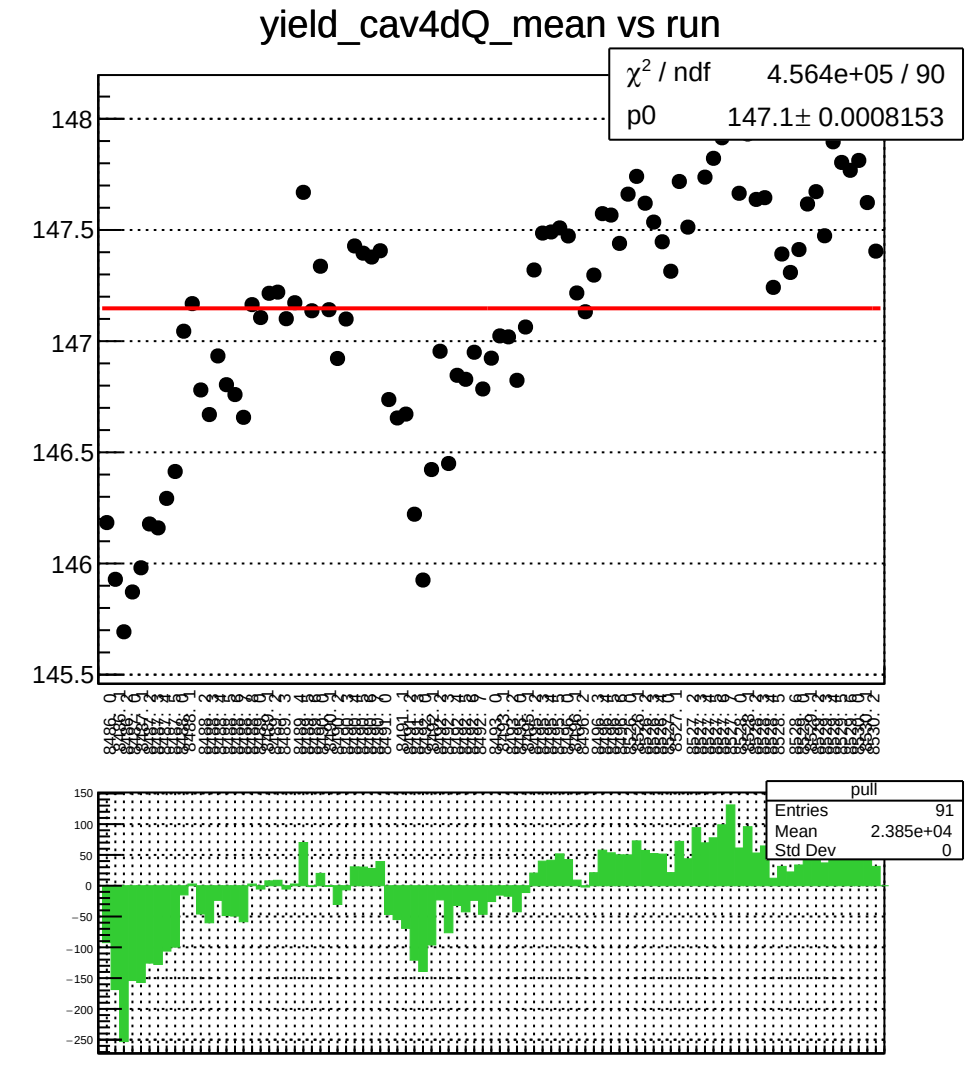

pull1D
Entries 91
Mean −0.4807
Std Dev 4.775
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

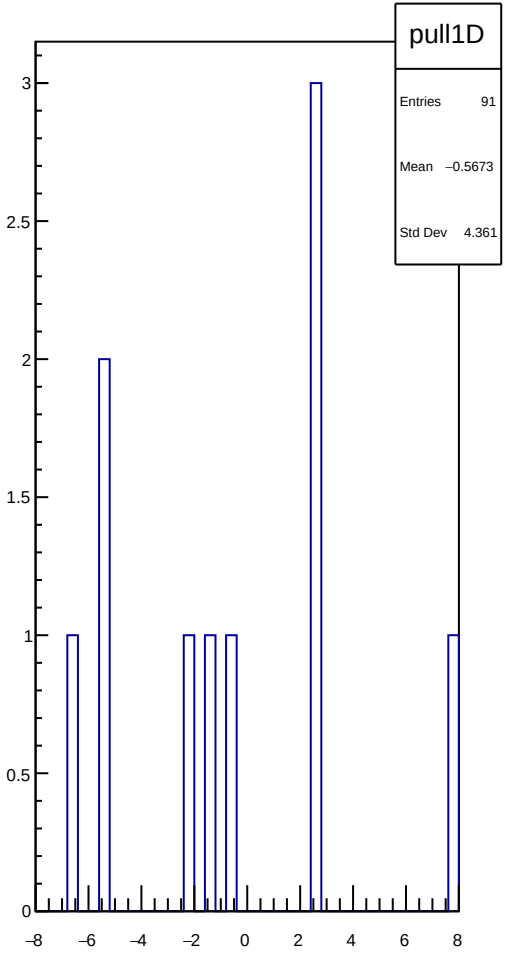

yield_cav4bQ_rms vs run
χ² / ndf 7.677e+04 / 90
p0 0.8137 ± 0.0006292
2.5
2
1.5
1
0.5

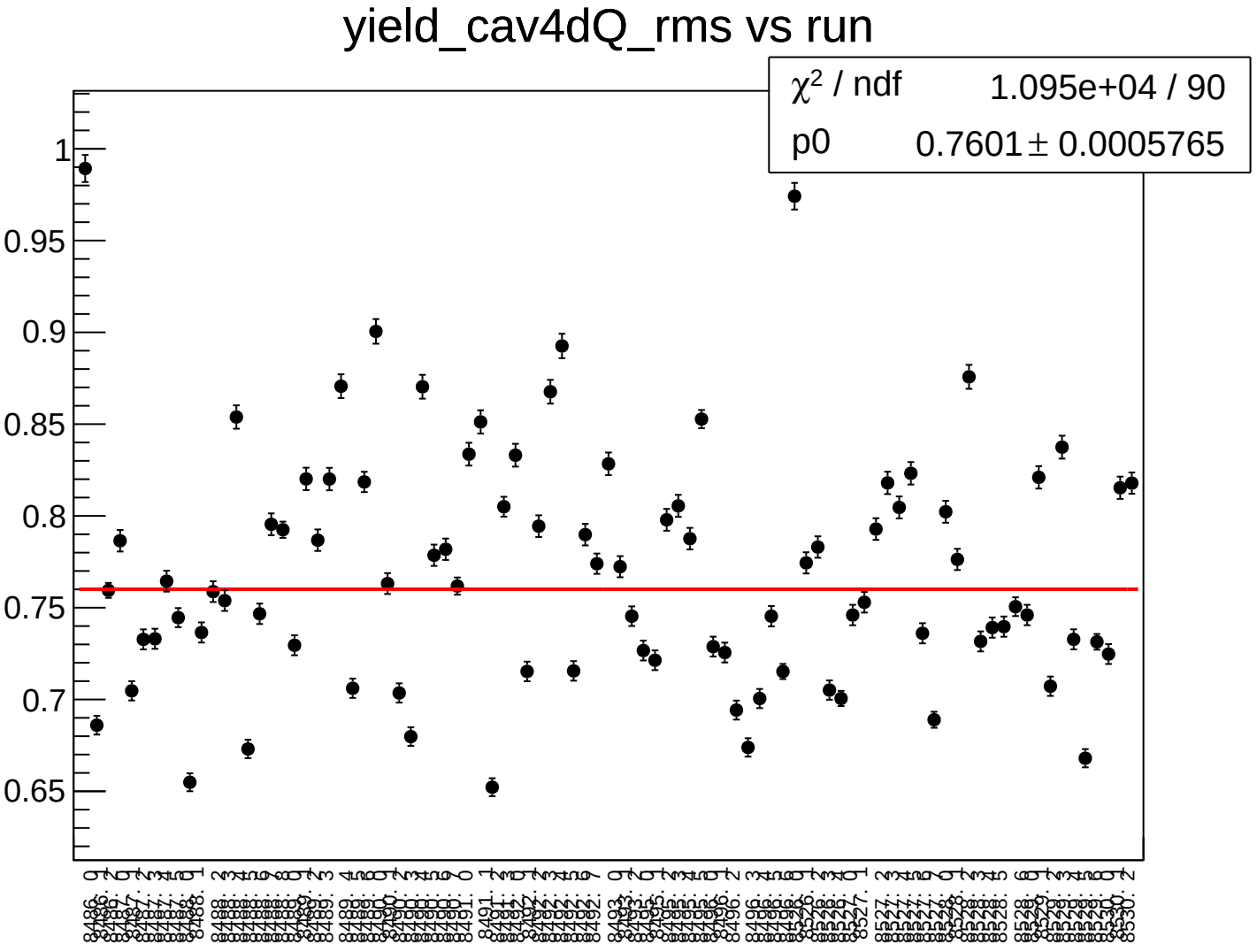

yield_cav4cQ_mean vs run
χ² / ndf 8.731e+05 / 90
p0 148.4 ± 0.0009262
149.5
149
148.5
148
147.5
147
146.5
146
145.5
pull
Entries 91
Mean −240.5
Std Dev 0
150
100
50
0
−50
−100
−150

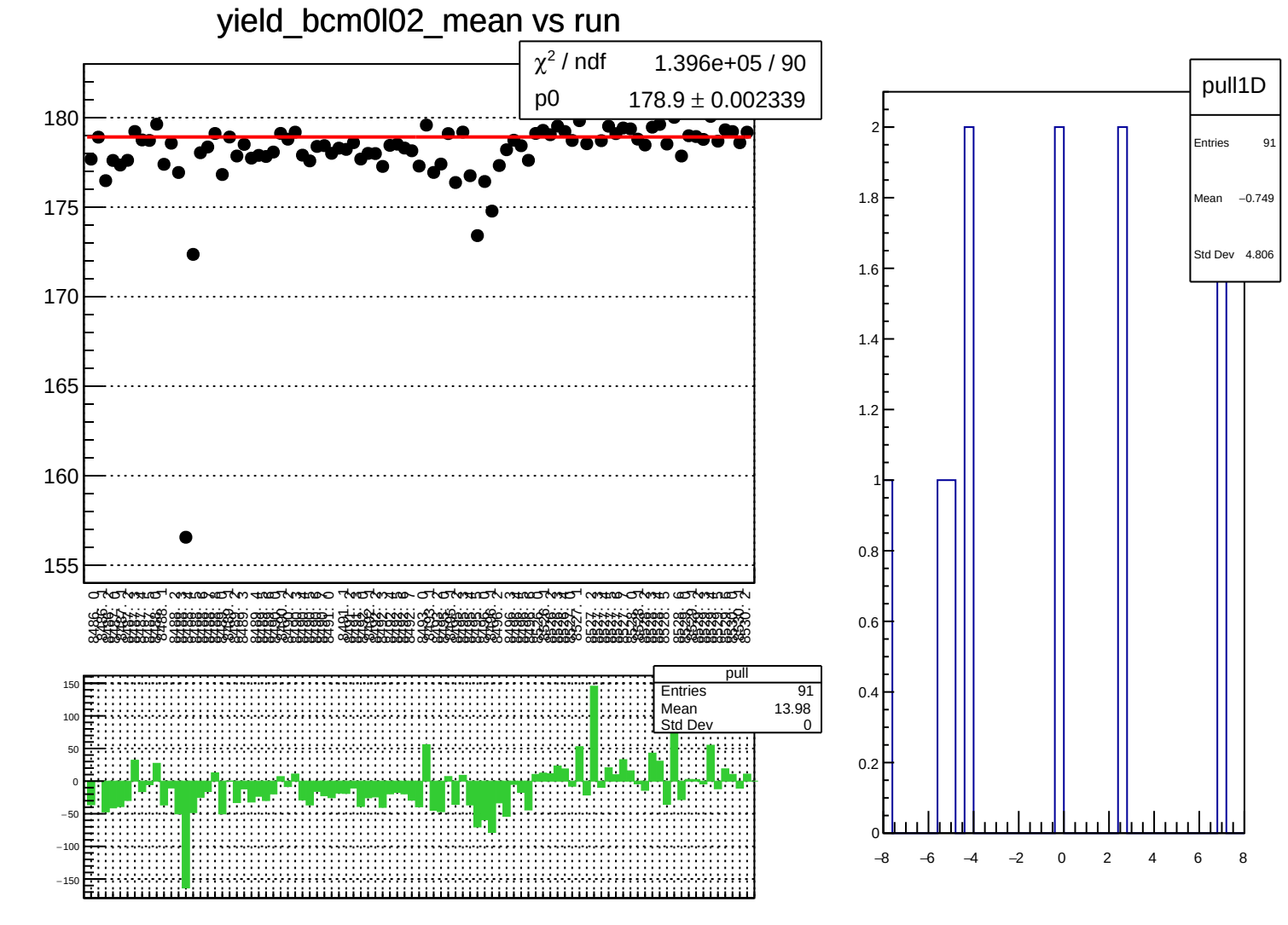

pull1D
Entries 91
Mean −2.242
Std Dev 0.6218
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

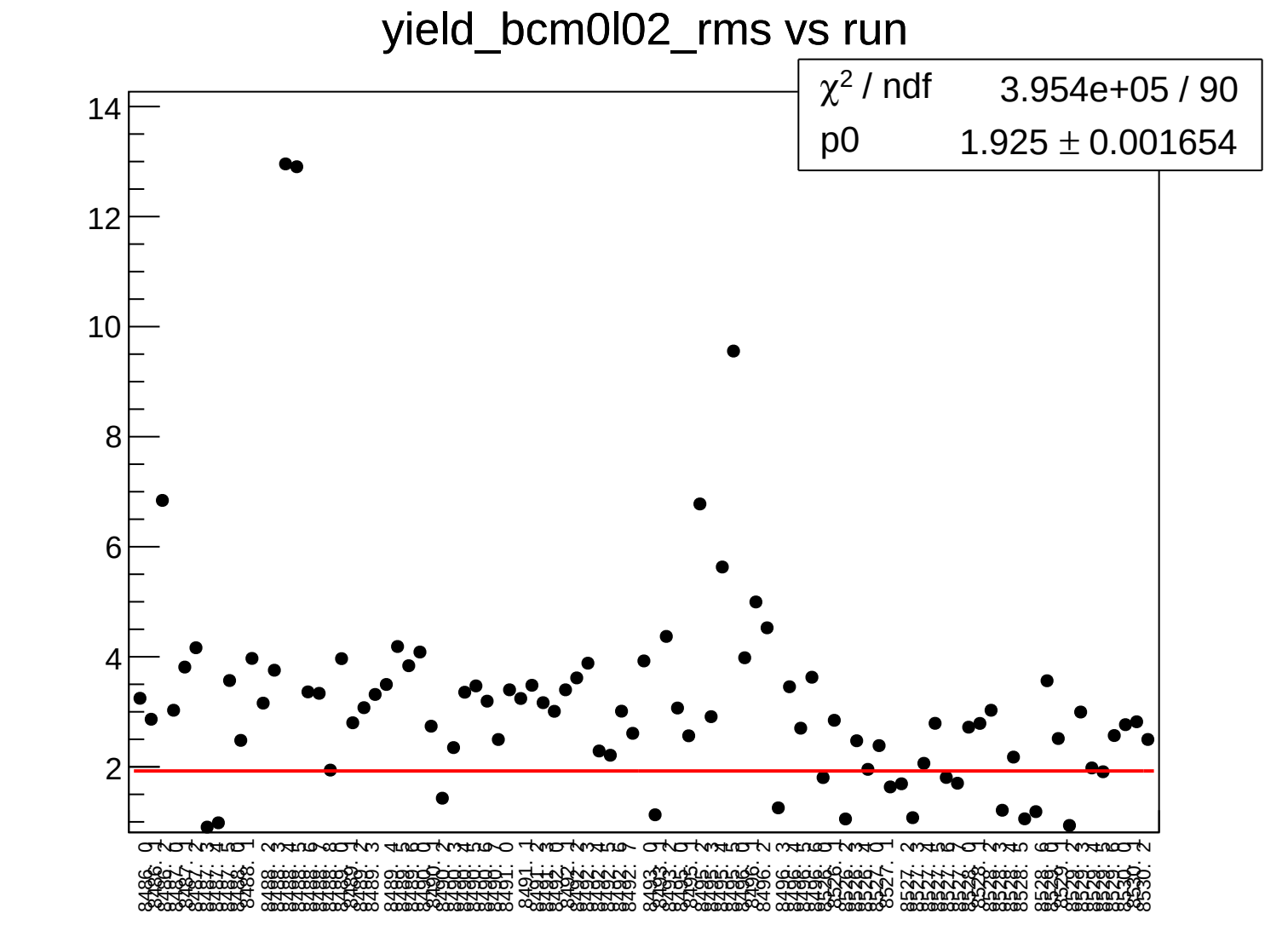

yield_cav4cQ_rms vs run
χ² / ndf 5.003e+04 / 90
p0 0.8538 ± 0.0006549
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6

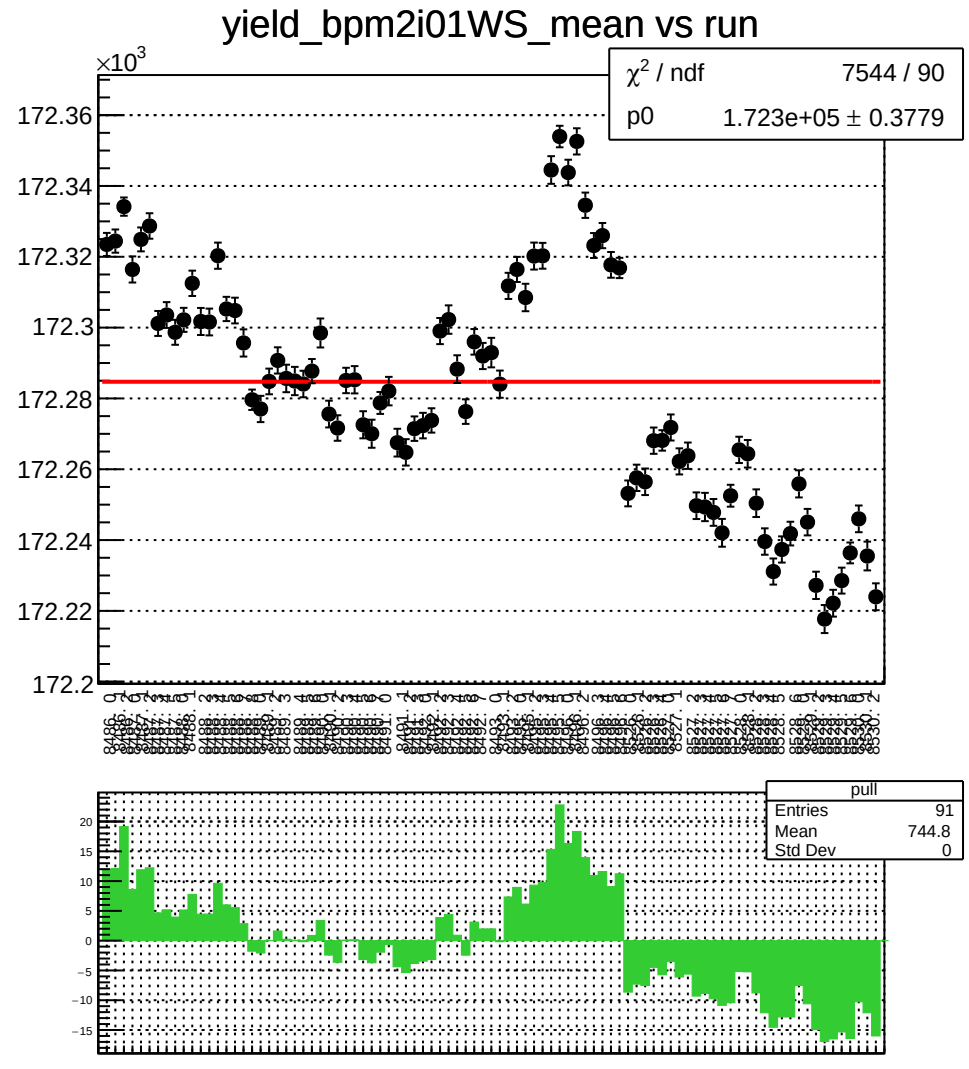

yield_cav4dQ_mean vs run
χ² / ndf 4.564e+05 / 90
p0 147.1± 0.0008153
148
147.5
147
146.5
146
145.5
pull
Entries 91
Mean 2.385e+04
Std Dev 0
150
100
50
0
−50
−100
−150
−200
−250

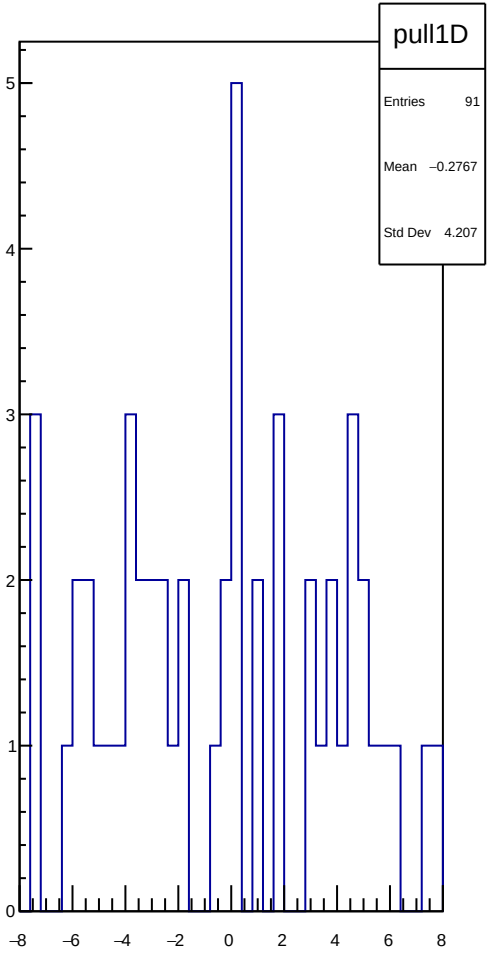

pull1D
Entries 91
Mean −0.5673
Std Dev 4.361
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

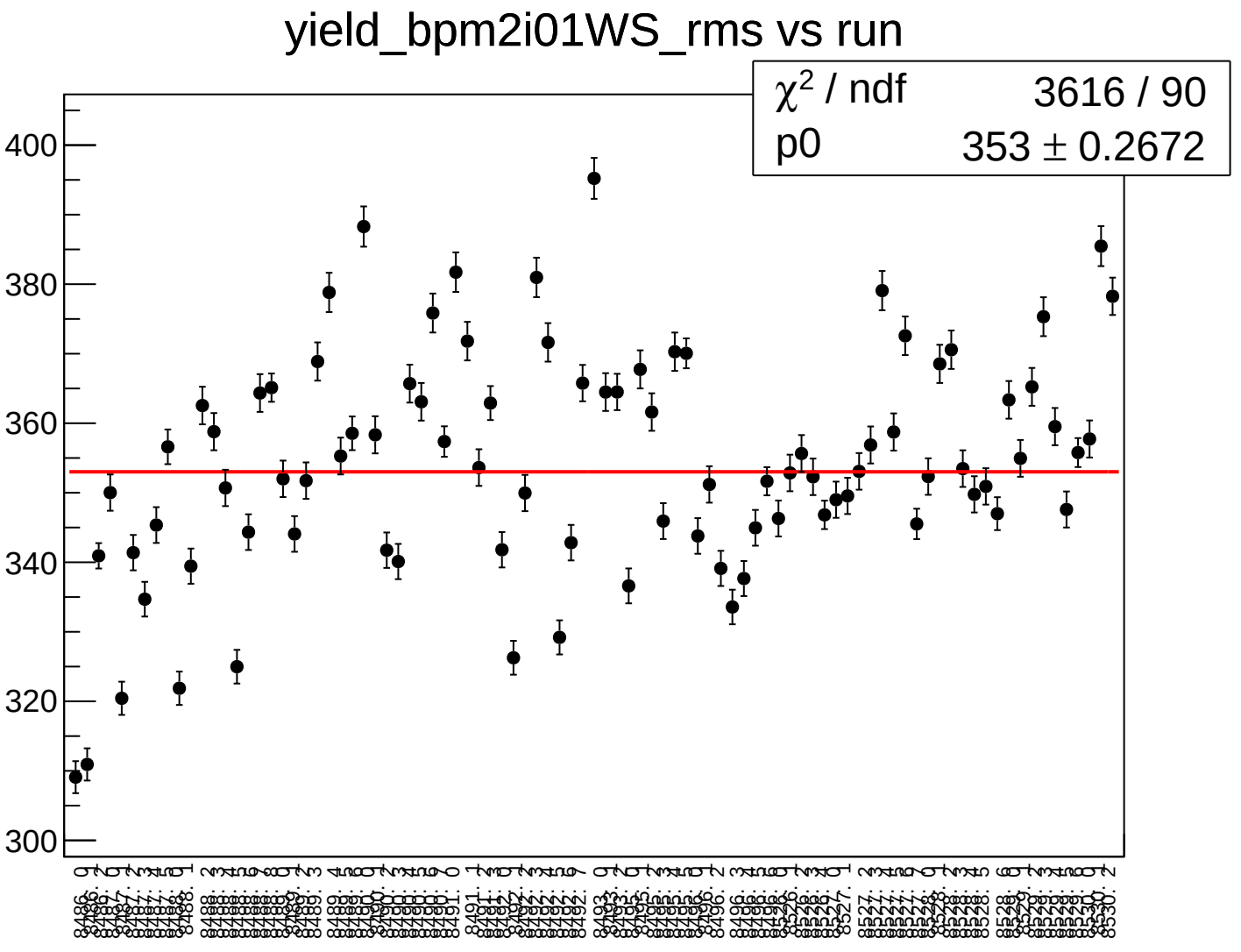

yield_cav4dQ_rms vs run
χ² / ndf 1.095e+04 / 90
p0 0.7601 ± 0.0005765
1
0.95
0.9
0.85
0.8
0.75
0.7
0.65

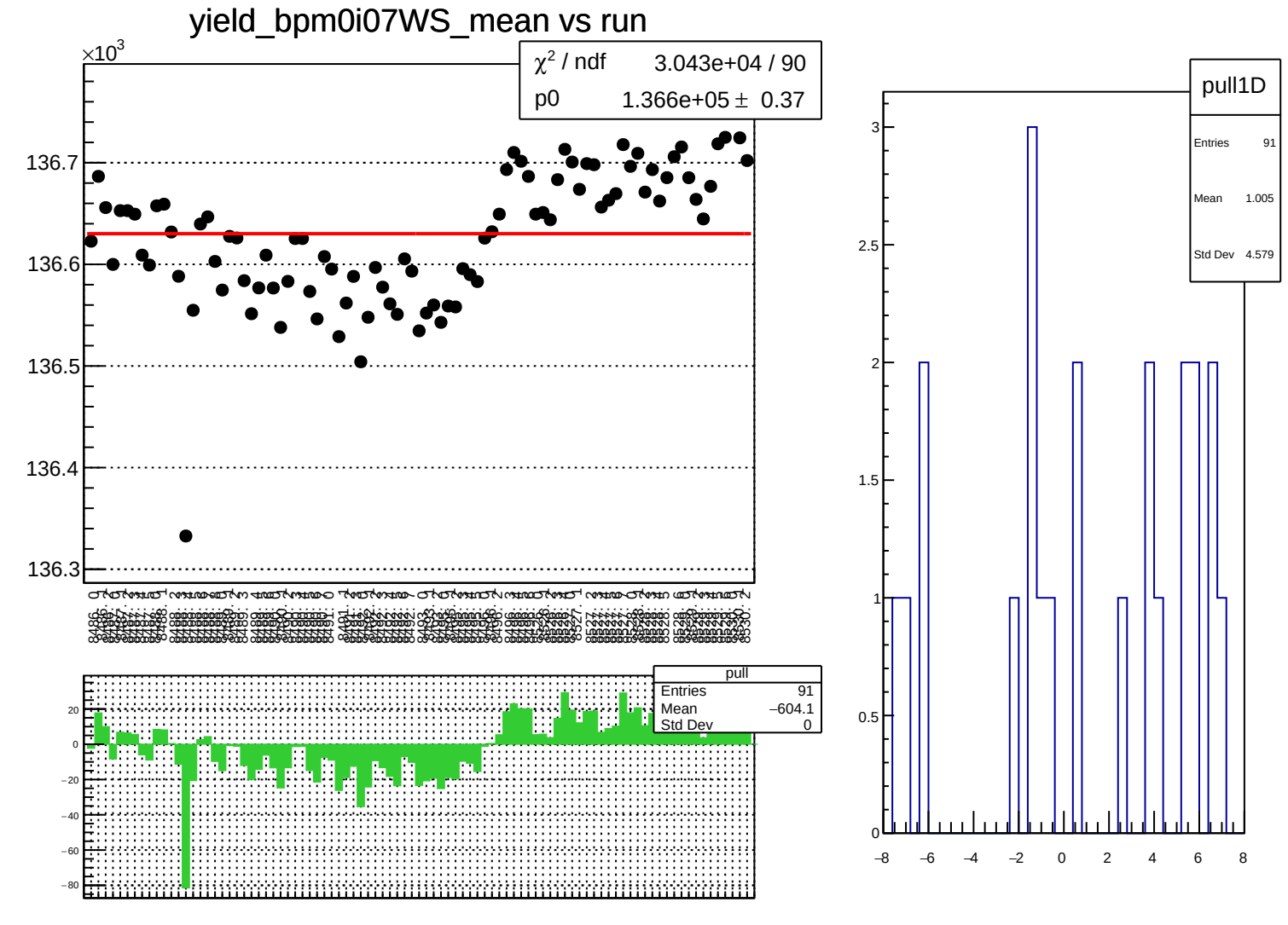

yield_bcm0l02_mean vs run
χ² / ndf 1.396e+05 / 90
p0 178.9 ± 0.002339
180
175
170
165
160
155
pull
Entries 91
Mean 13.98
Std Dev 0
150
100
50
0
−50
−100
−150
pull1D
Entries 91
Mean −0.749
Std Dev 4.806
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

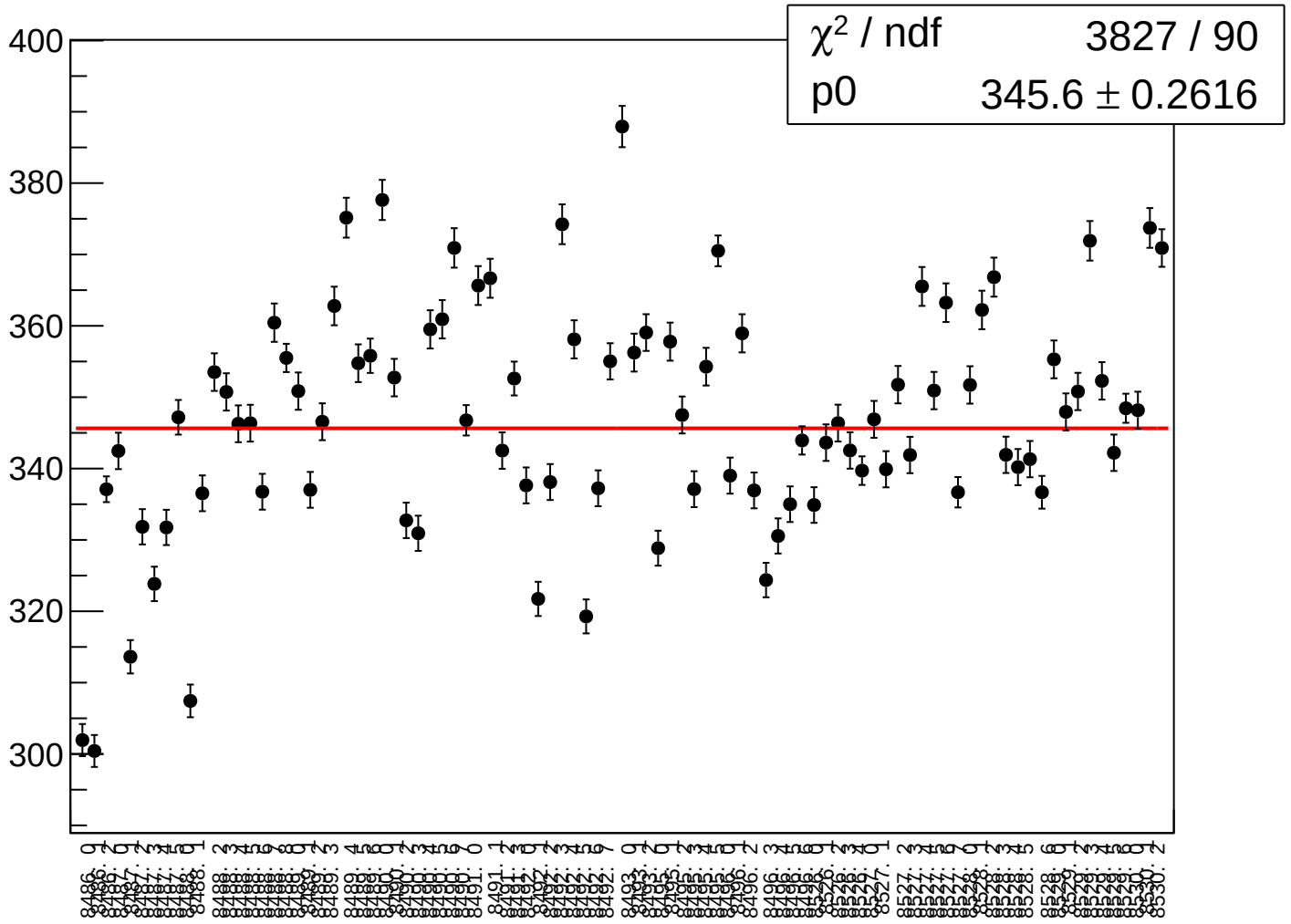

yield_bcm0l02_rms vs run
χ^2 / ndf 3.954e+05 / 90
p0 1.925 ± 0.001654
14
12
10
8
6
4
2

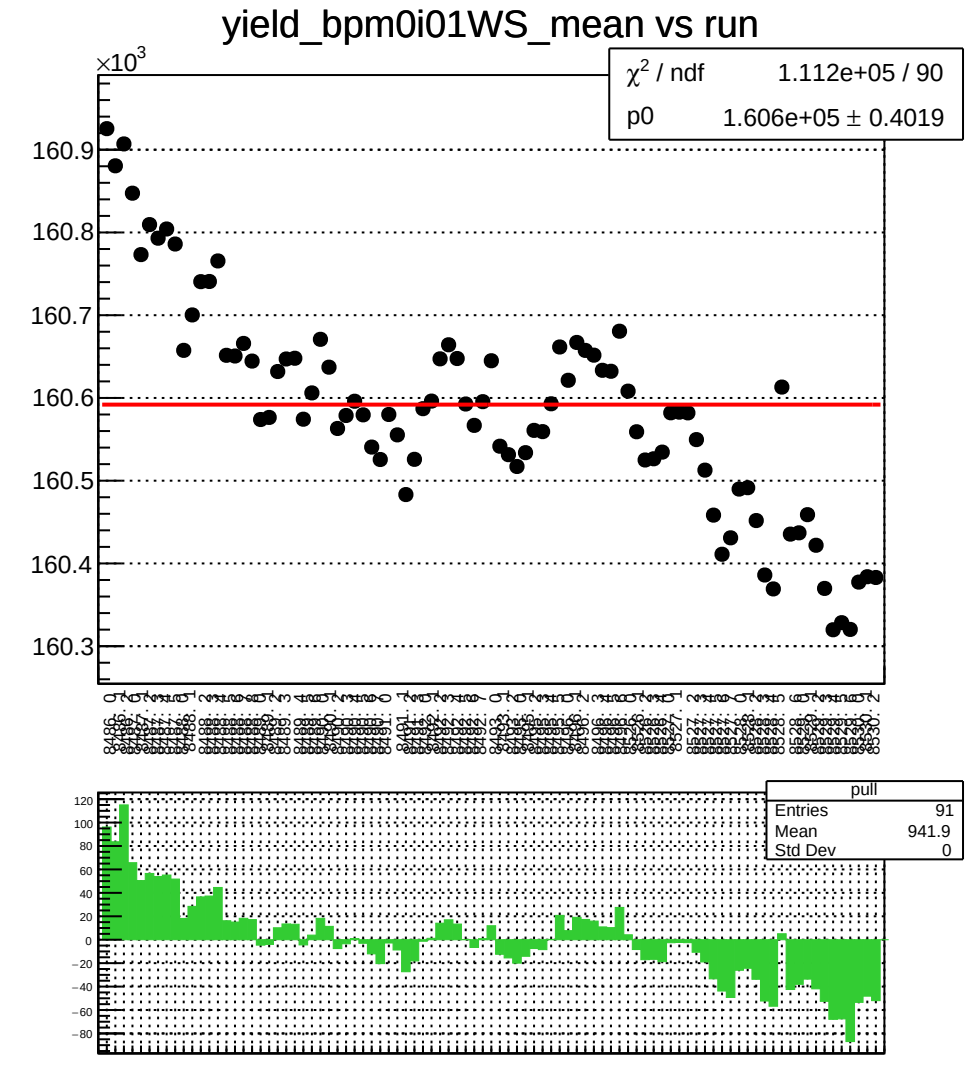

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 7544 / 90
p0 1.723e+05 ± 0.3779
172.36
172.34
172.32
172.3
172.28
172.26
172.24
172.22
172.2
pull
Entries 91
Mean 744.8
Std Dev 0
20
15
10
5
0
−5
−10
−15

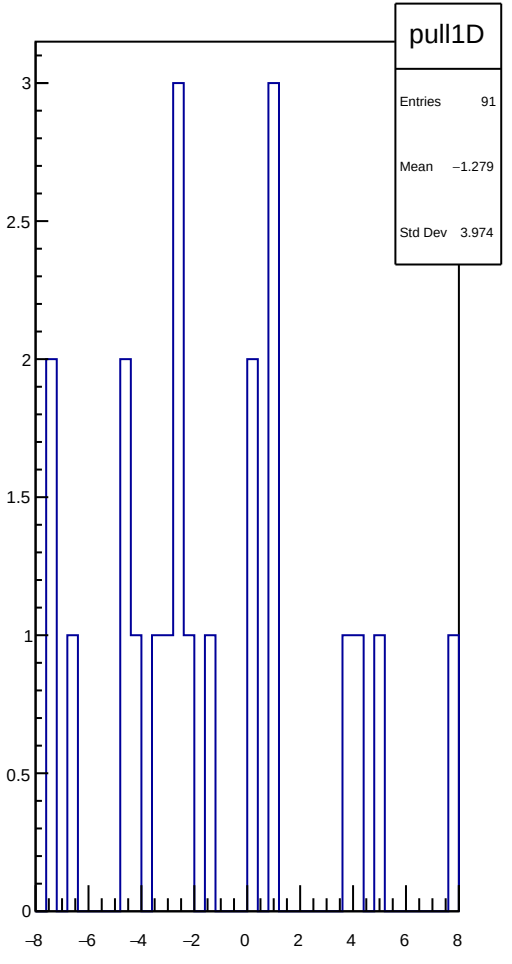

pull1D
Entries 91
Mean −0.2767
Std Dev 4.207
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

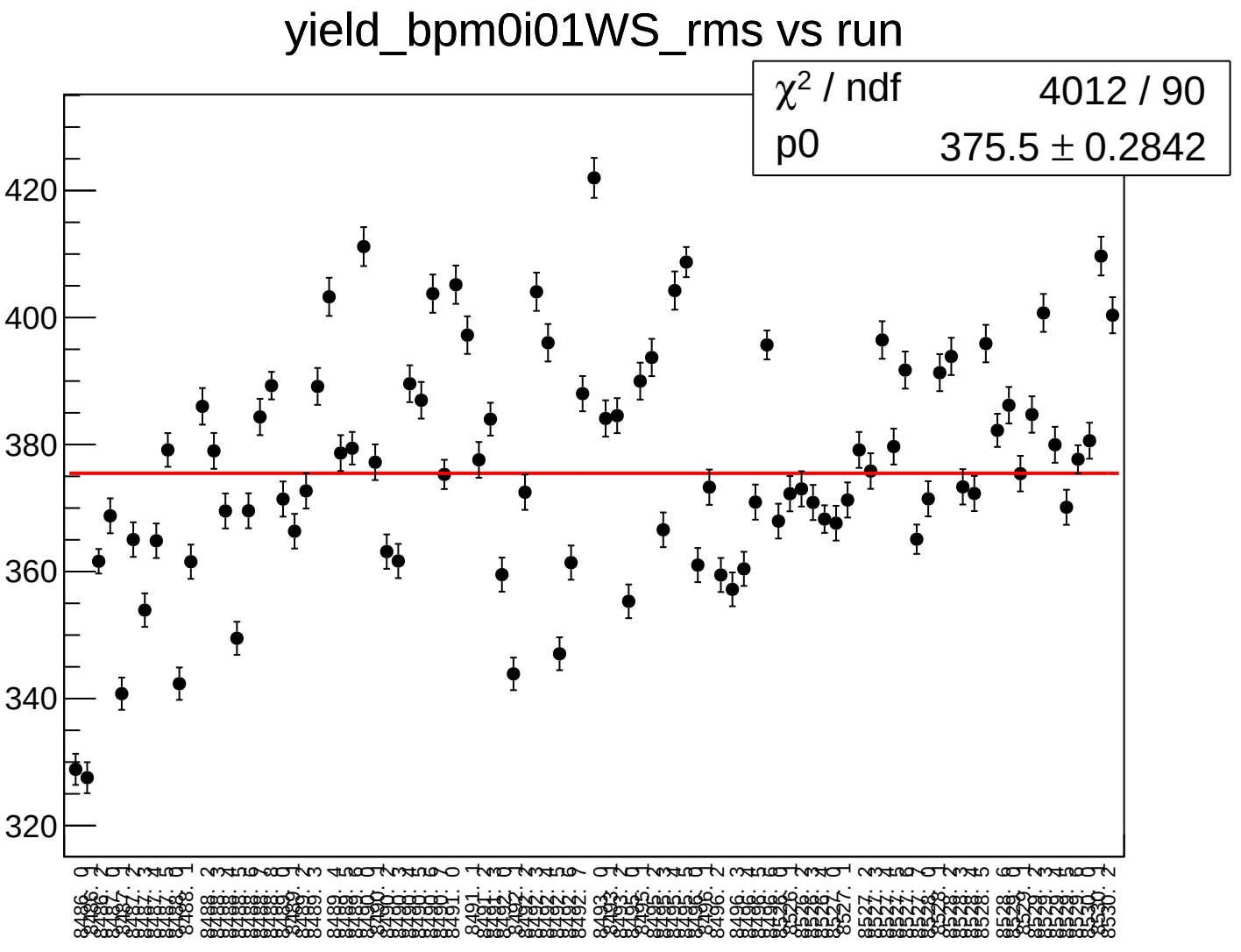

yield_bpm2i01WS_rms vs run
χ² / ndf 3616 / 90
p0 353 ± 0.2672
400
380
360
340
320
300

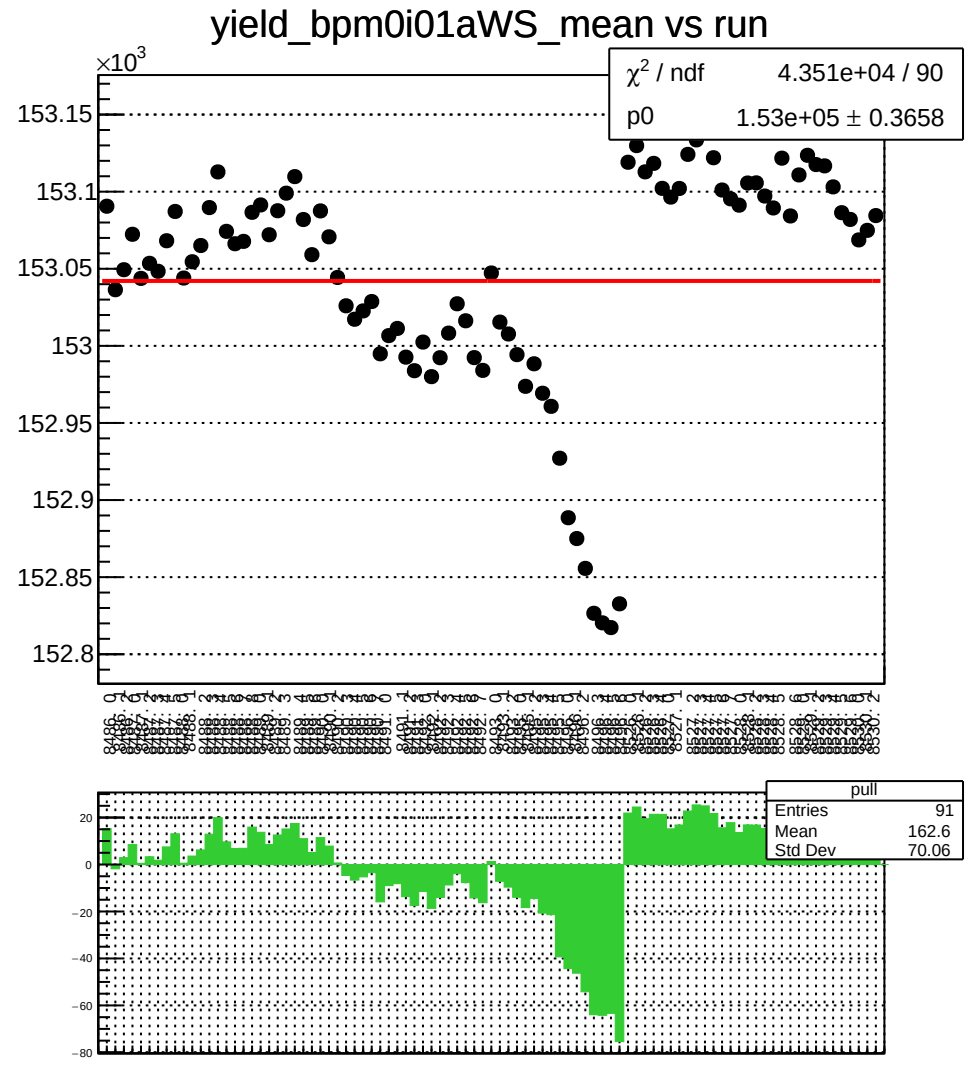

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 3.043e+04 / 90
p0 1.366e+05 ± 0.37
136.7
136.6
136.5
136.4
136.3
pull
Entries 91
Mean −604.1
Std Dev 0
20
0
−20
−40
−60
−80
pull1D
Entries 91
Mean 1.005
Std Dev 4.579
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

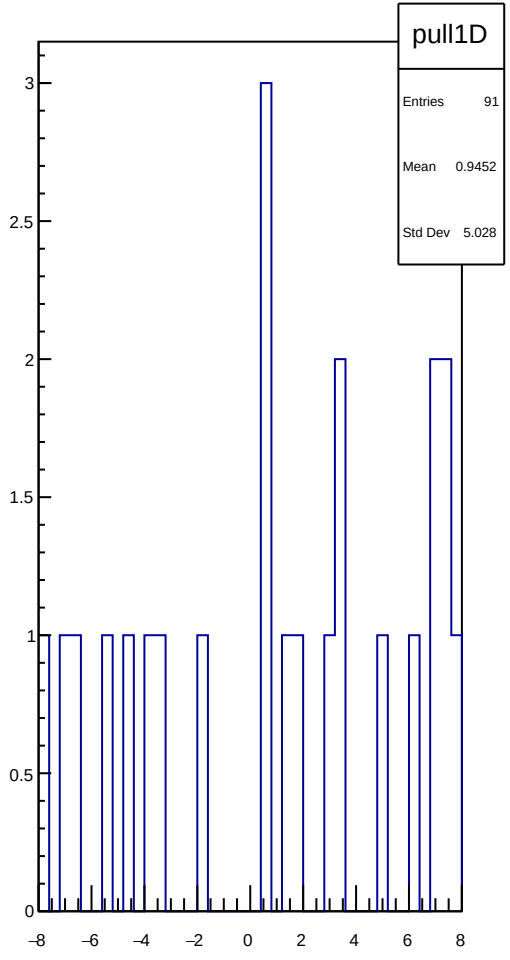

yield_bpm0i07WS_rms vs run
χ² / ndf 3827 / 90
p0 345.6 ± 0.2616
400
380
360
340
320
300

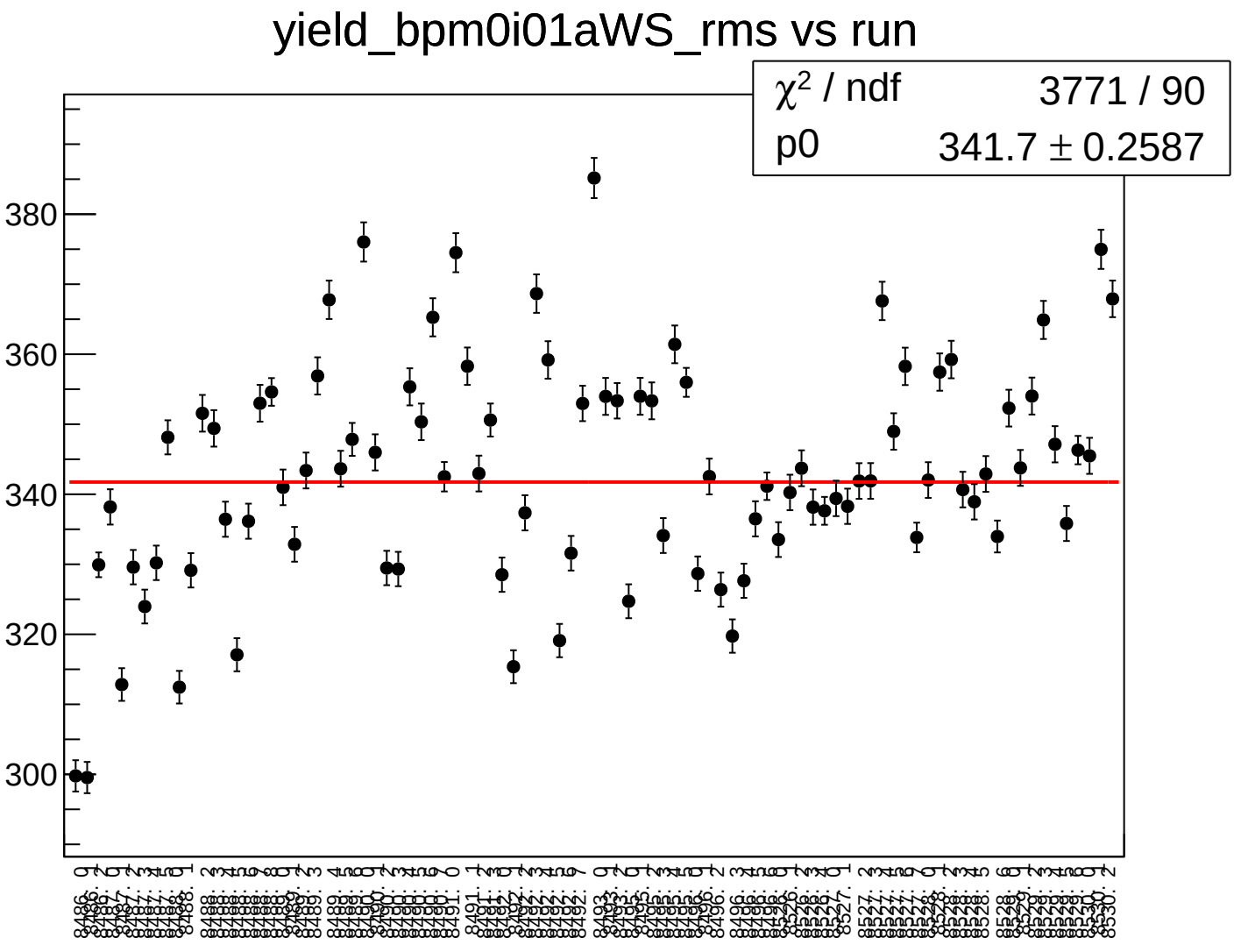

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 1.112e+05 / 90
p0 1.606e+05 ± 0.4019
160.9
160.8
160.7
160.6
160.5
160.4
160.3
pull
Entries 91
Mean 941.9
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60
−80

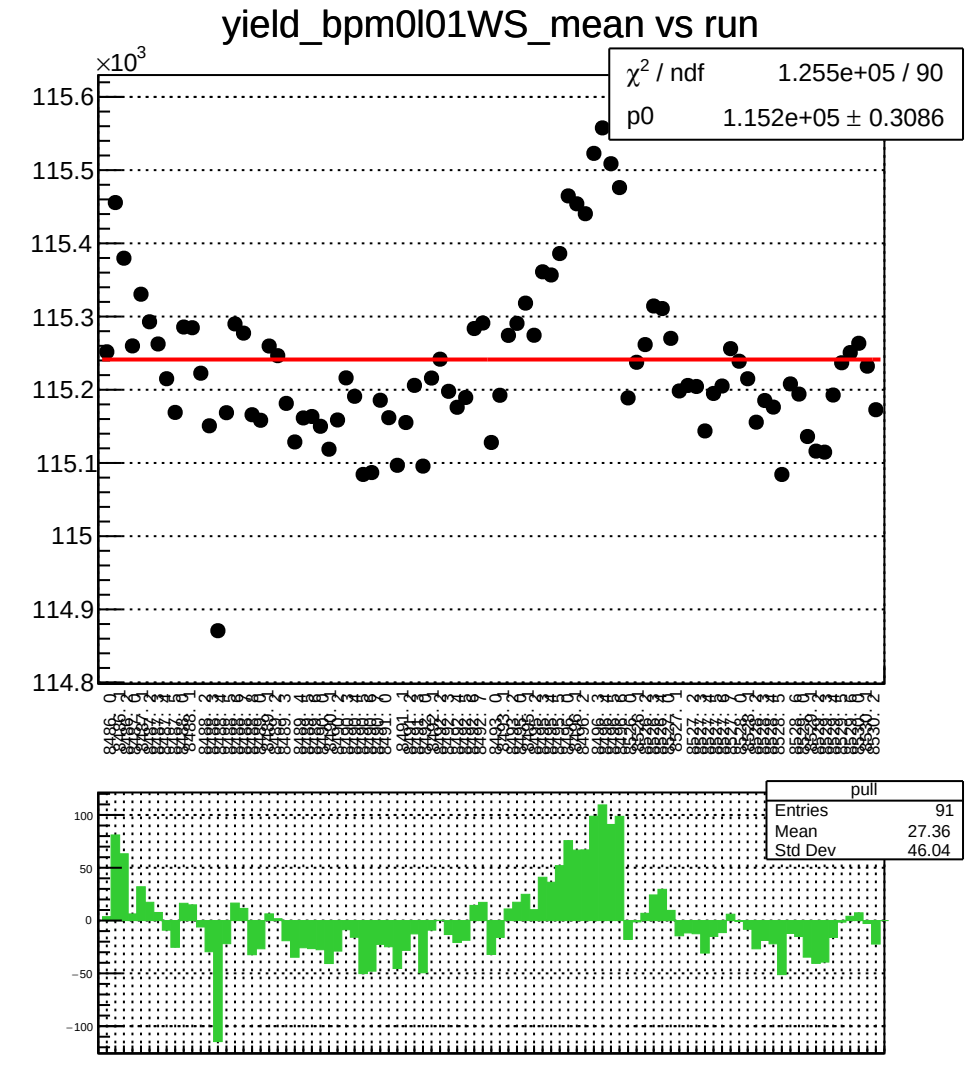

pull1D
Entries 91
Mean −1.279
Std Dev 3.974
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

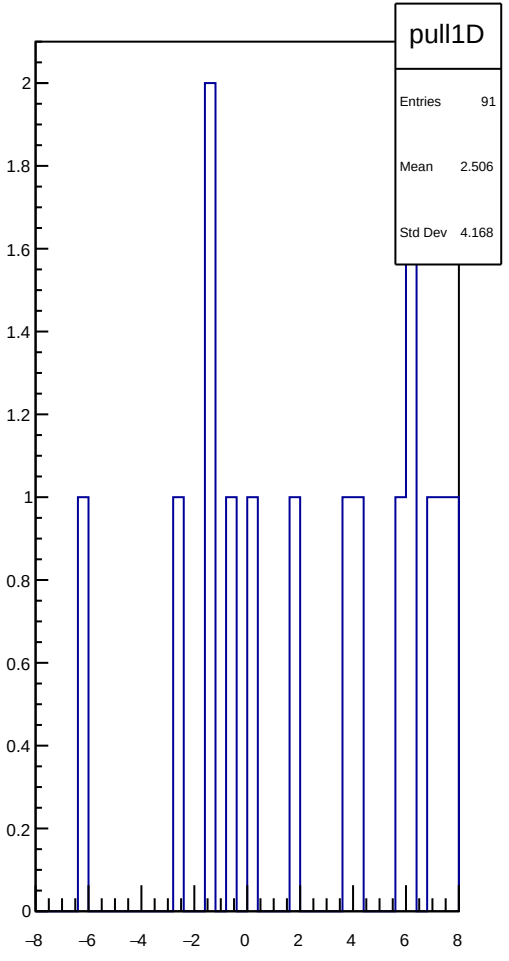

yield_bpm0i01WS_rms vs run
χ² / ndf 4012 / 90
p0 375.5 ± 0.2842
420
400
380
360
340
320

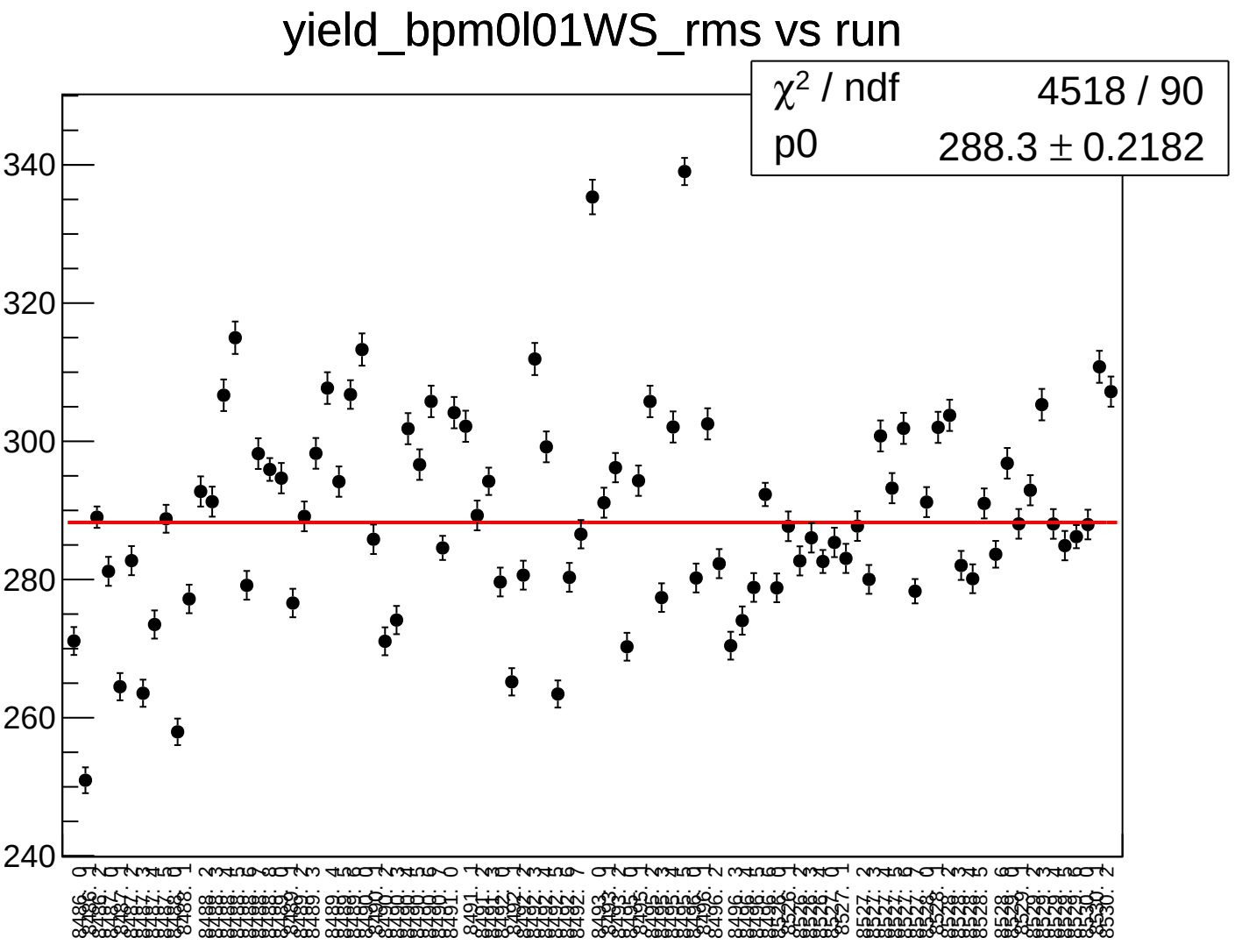

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 4.351e+04 / 90
p0 1.53e+05 ± 0.3658
153.15
153.1
153.05
153
152.95
152.9
152.85
152.8
pull
Entries 91
Mean 162.6
Std Dev 70.06
20
0
−20
−40
−60
−80

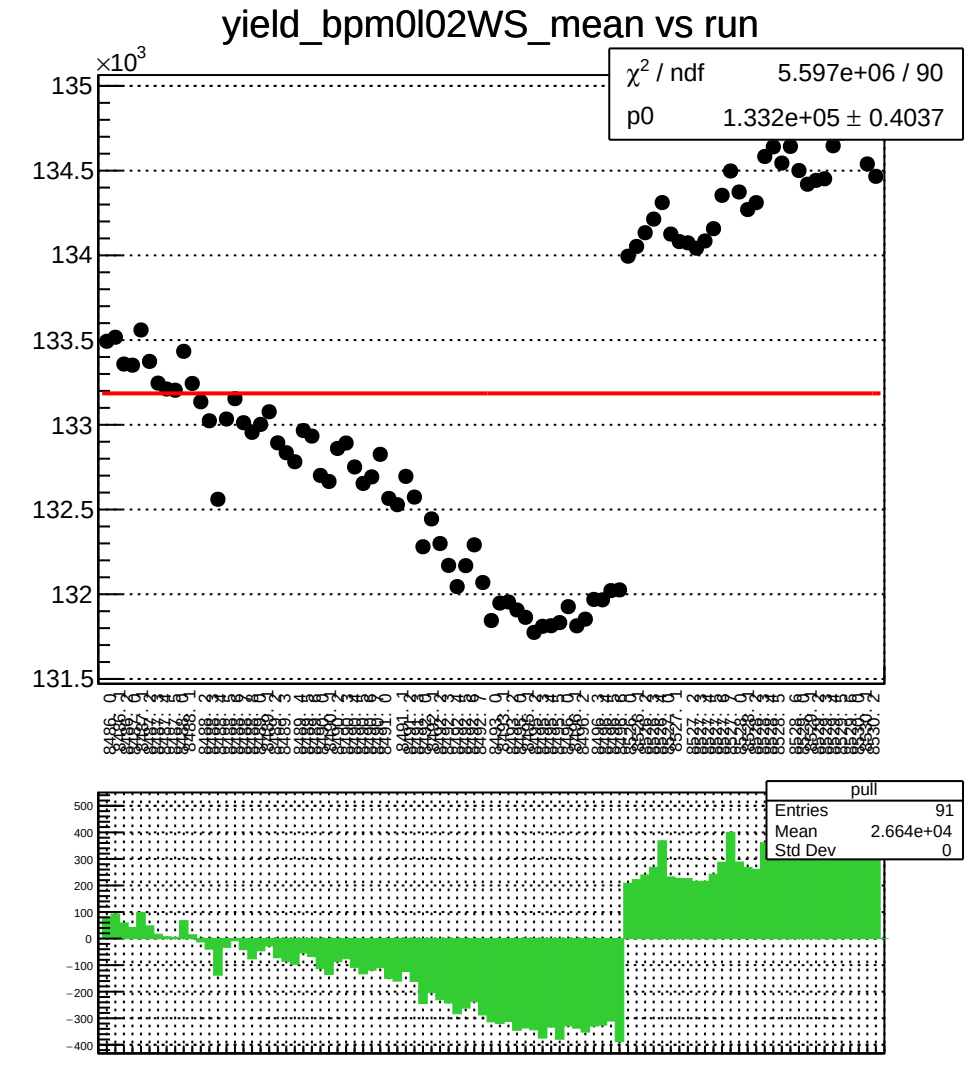

pull1D
Entries 91
Mean 0.9452
Std Dev 5.028
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

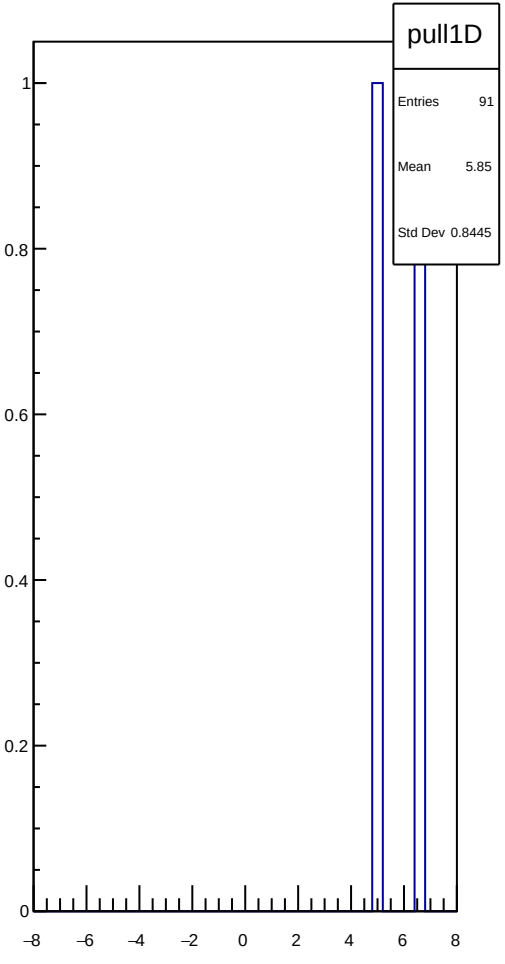

yield_bpm0i01aWS_rms vs run
χ² / ndf 3771 / 90
p0 341.7 ± 0.2587
380
360
340
320
300

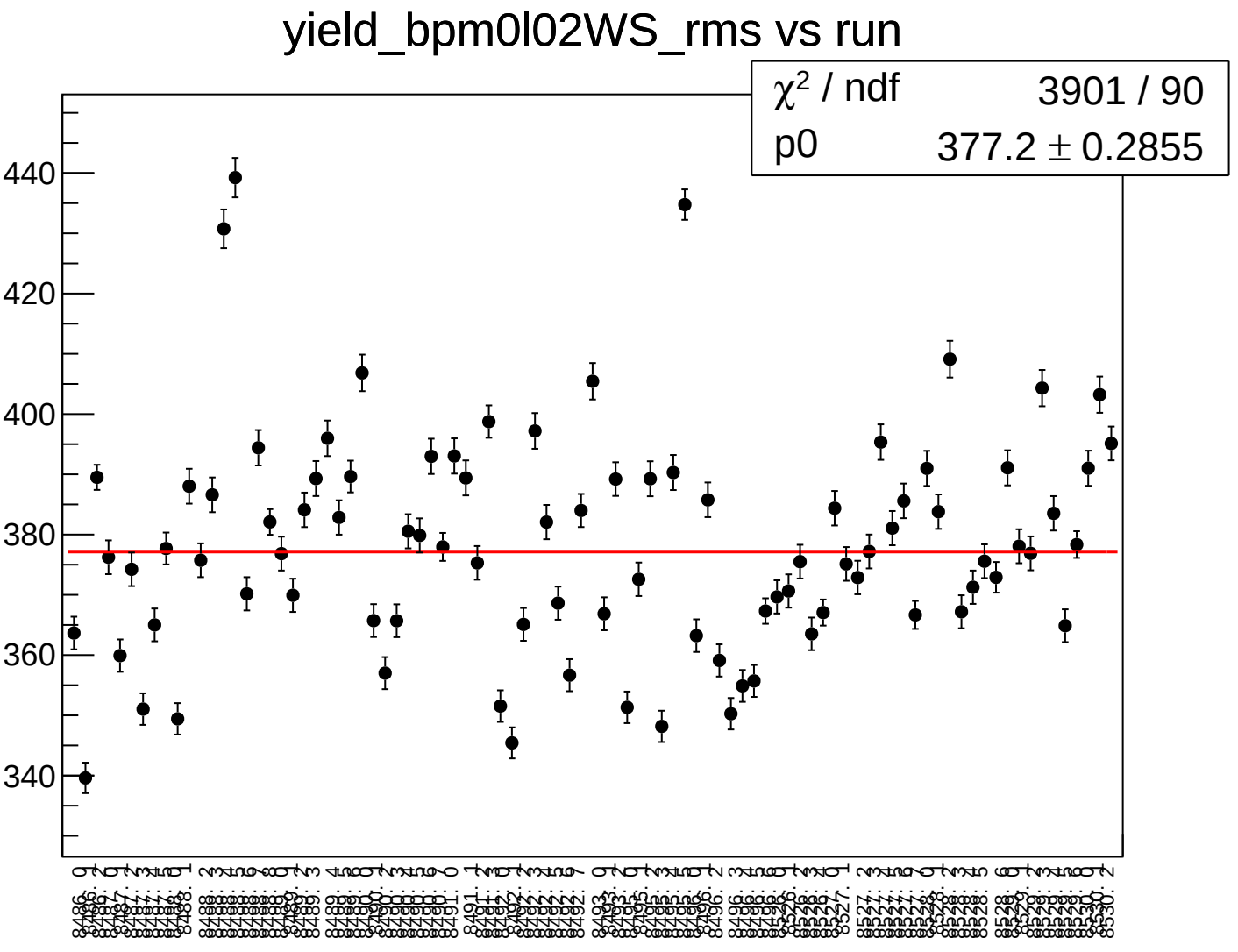

yield_bpm0l01WS_mean vs run
×10^3
χ^2 / ndf 1.255e+05 / 90
p0 1.152e+05 ± 0.3086
115.6
115.5
115.4
115.3
115.2
115.1
115
114.9
114.8
pull
Entries 91
Mean 27.36
Std Dev 46.04
100
50
0
−50
−100

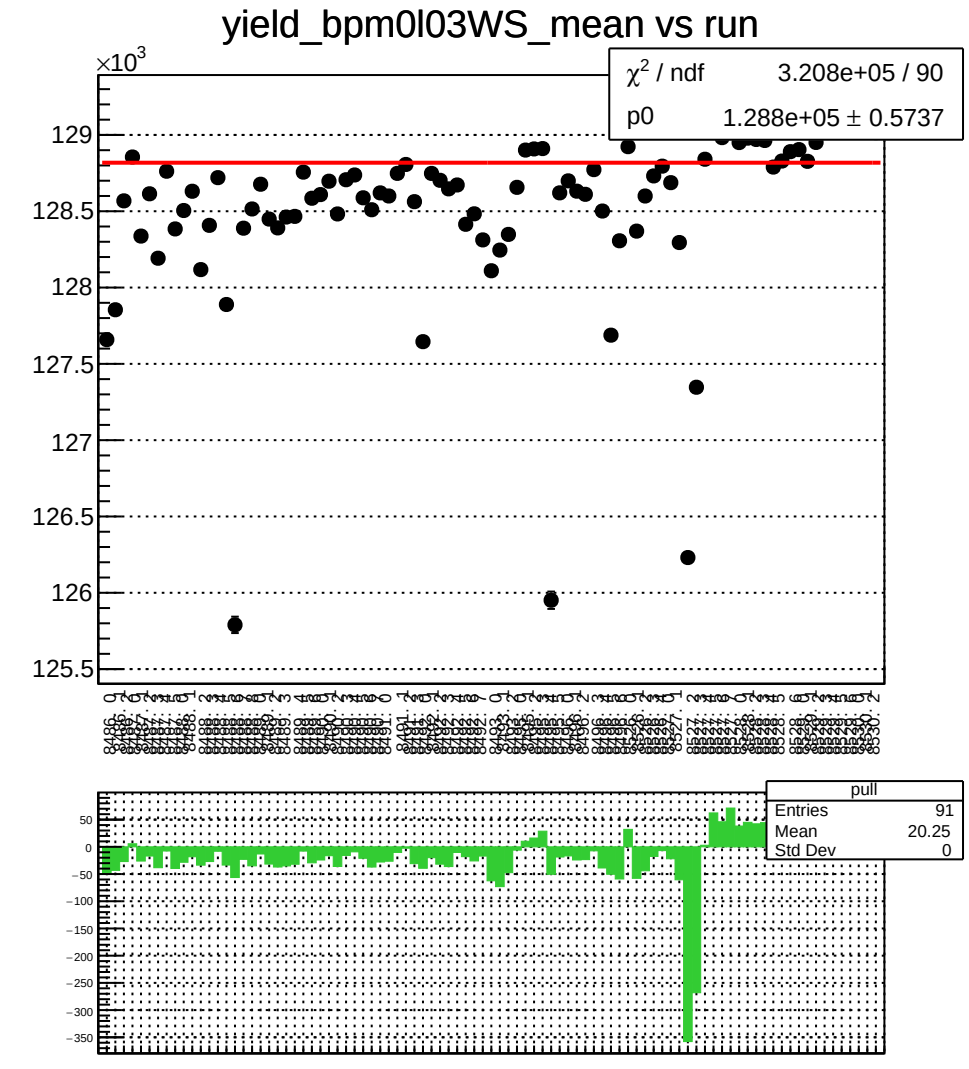

pull1D
Entries 91
Mean 2.506
Std Dev 4.168
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

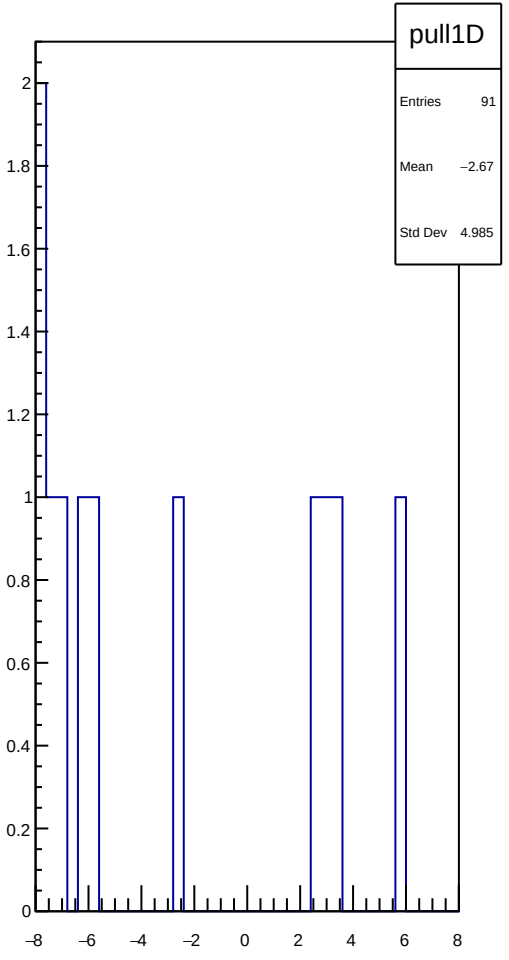

yield_bpm0l01WS_rms vs run
χ² / ndf 4518 / 90
p0 288.3 ± 0.2182
340
320
300
280
260
240

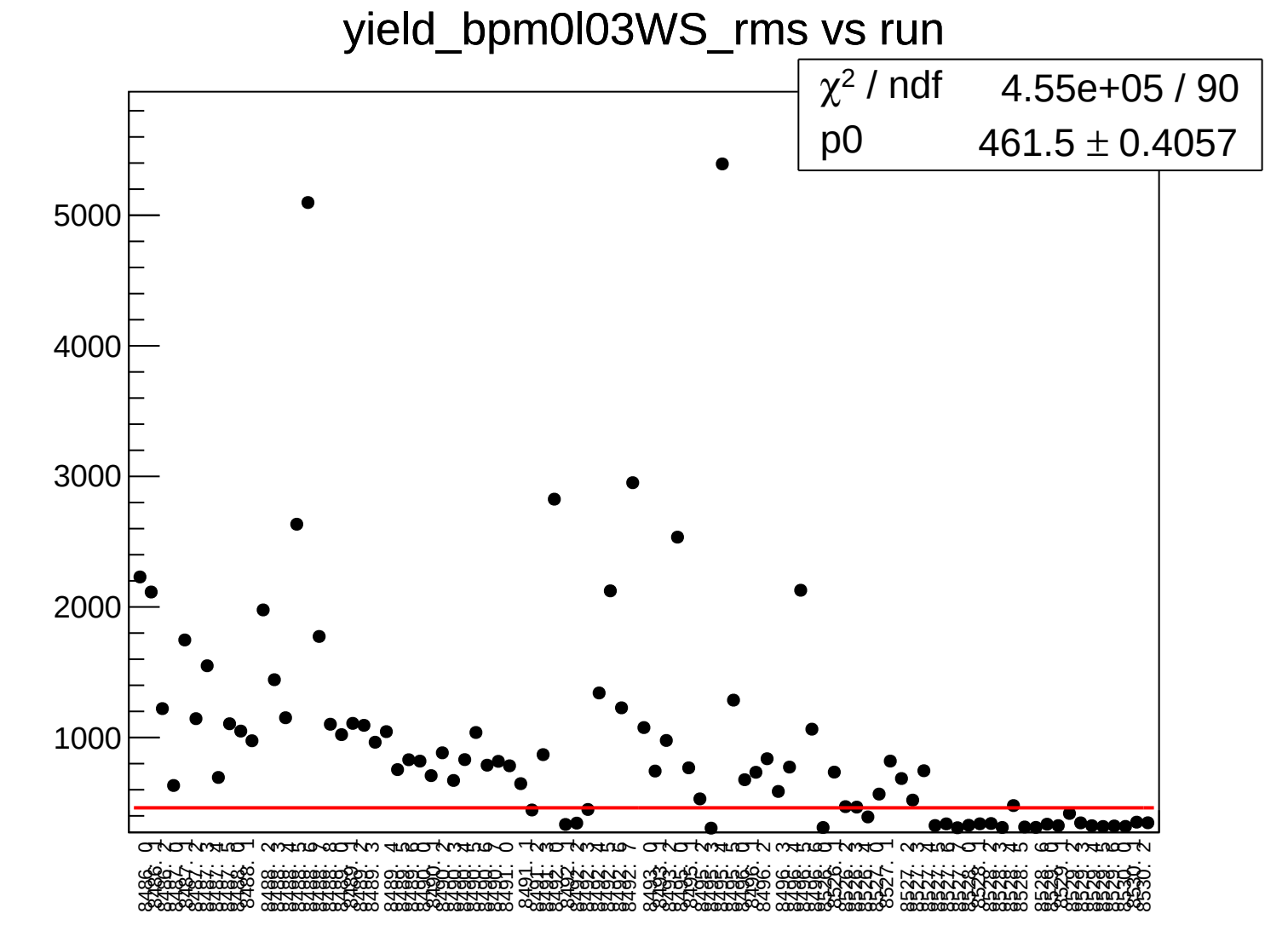

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 5.597e+06 / 90
p0 1.332e+05 ± 0.4037
135
134.5
134
133.5
133
132.5
132
131.5
pull
Entries 91
Mean 2.664e+04
Std Dev 0
500
400
300
200
100
0
−100
−200
−300
−400

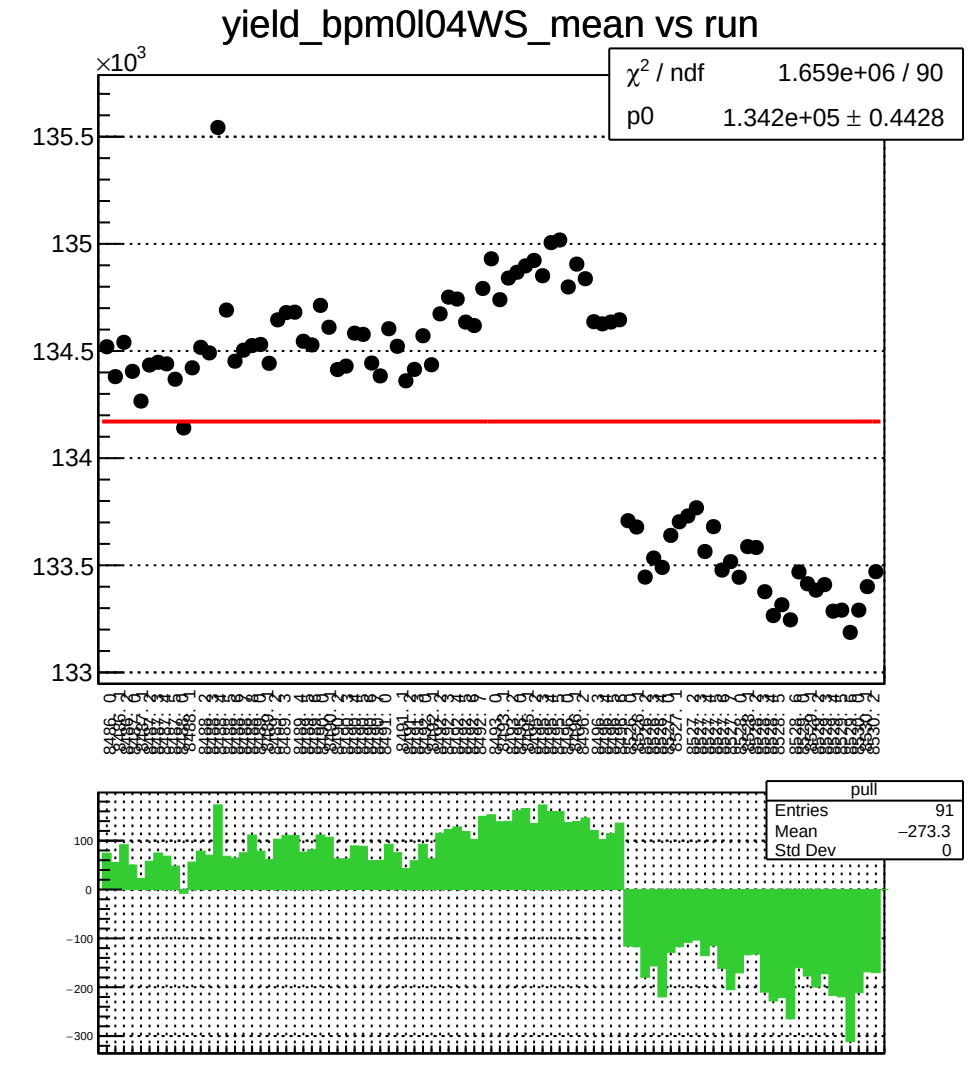

pull1D
Entries 91
Mean 5.85
Std Dev 0.8445
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

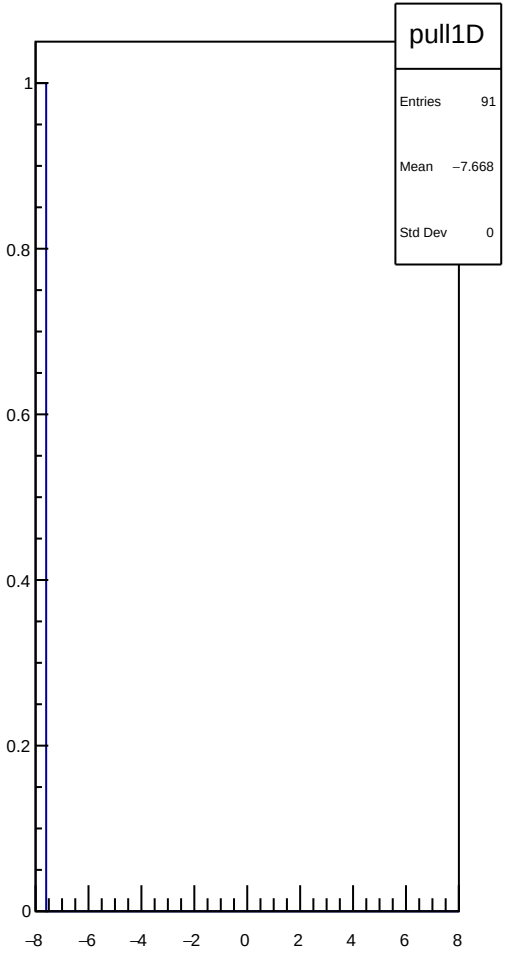

yield_bpm0l02WS_rms vs run
χ² / ndf 3901 / 90
p0 377.2 ± 0.2855
440
420
400
380
360
340

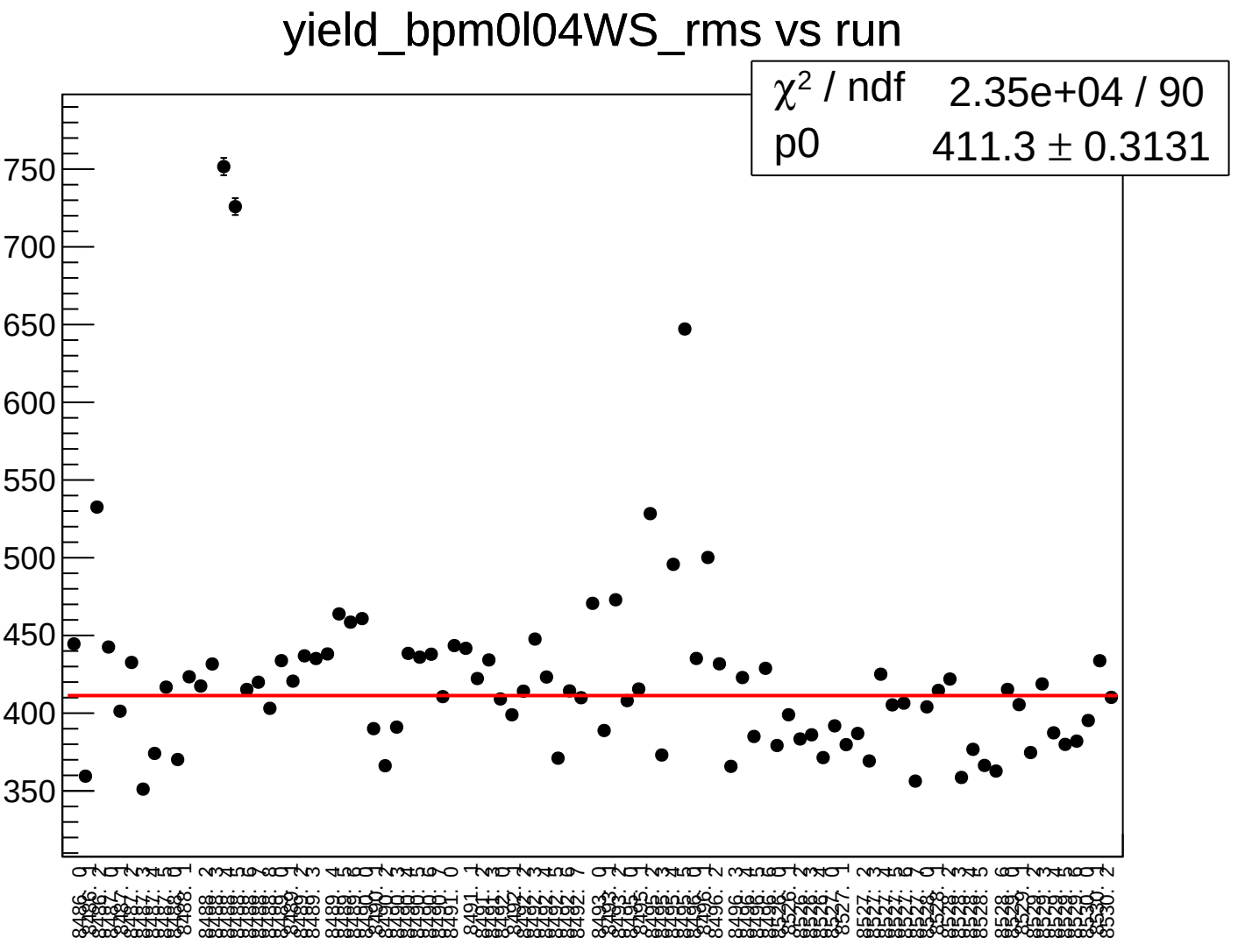

yield_bpm0l03WS_mean vs run
×10^3
χ^2 / ndf 3.208e+05 / 90
p0 1.288e+05 ± 0.5737
129
128.5
128
127.5
127
126.5
126
125.5
pull
Entries 91
Mean 20.25
Std Dev 0
50
0
−50
−100
−150
−200
−250
−300
−350

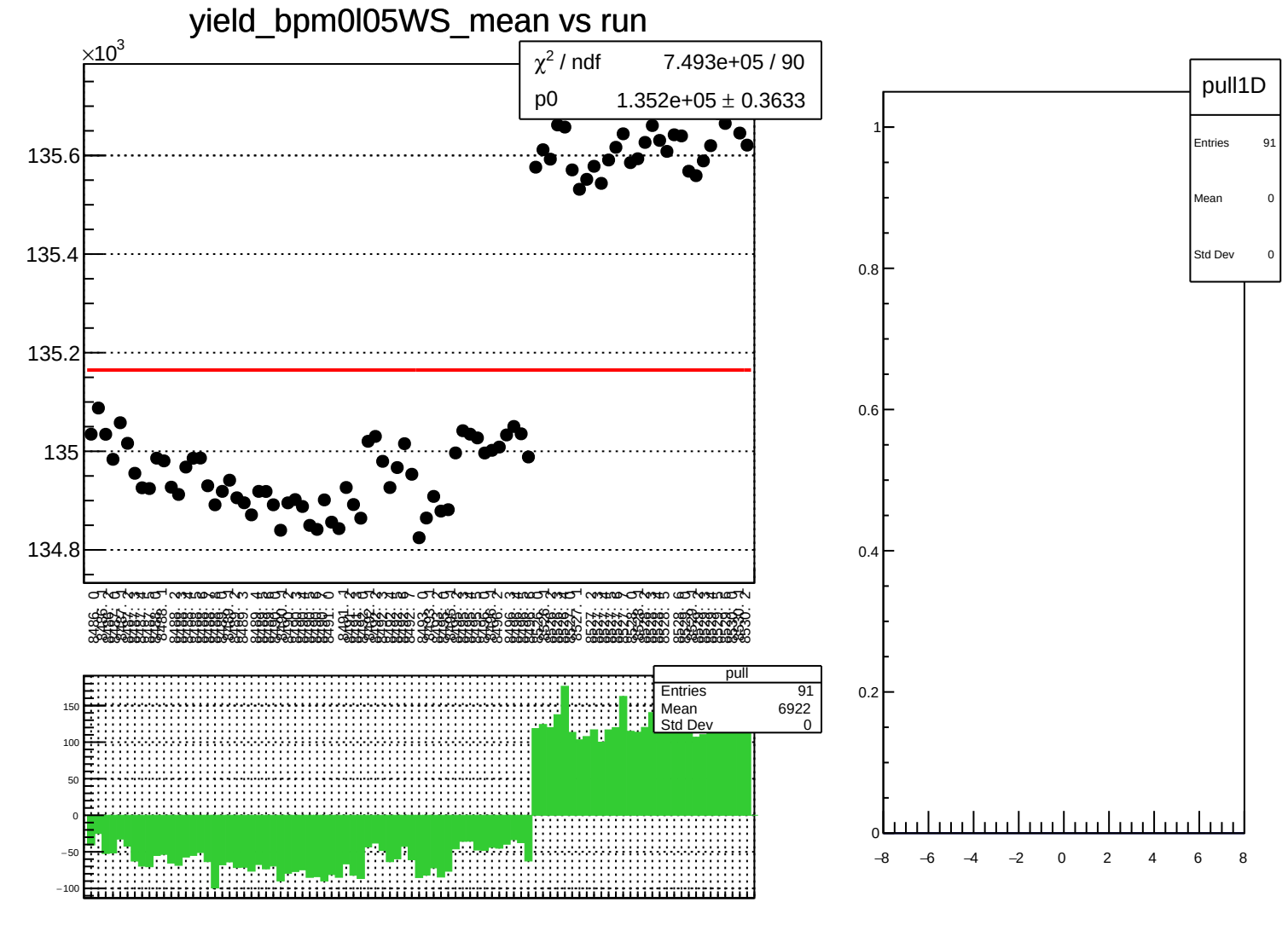

pull1D
Entries 91
Mean −2.67
Std Dev 4.985
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

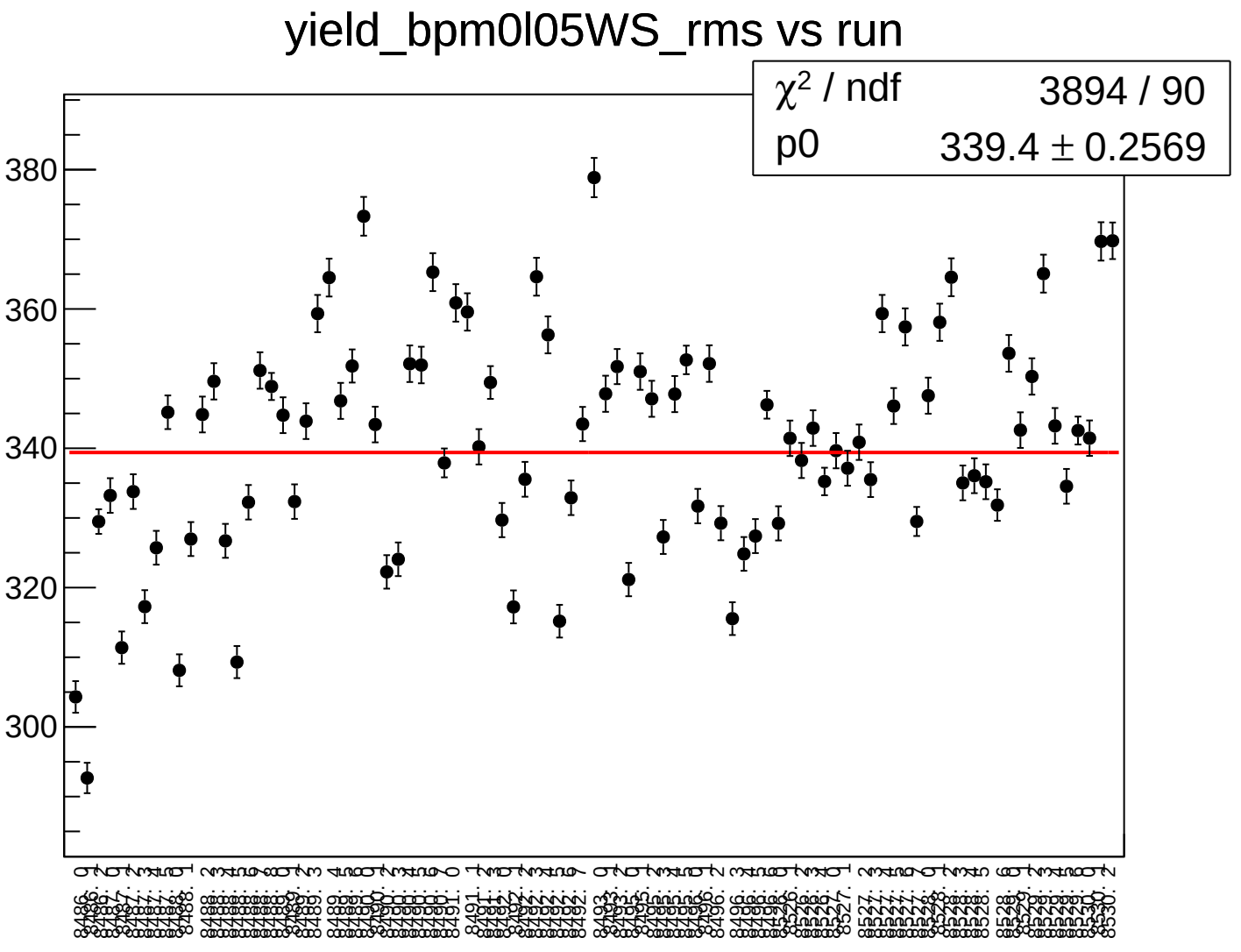

yield_bpm0l03WS_rms vs run
χ^2 / ndf 4.55e+05 / 90
p0 461.5 ± 0.4057
5000
4000
3000
2000
1000

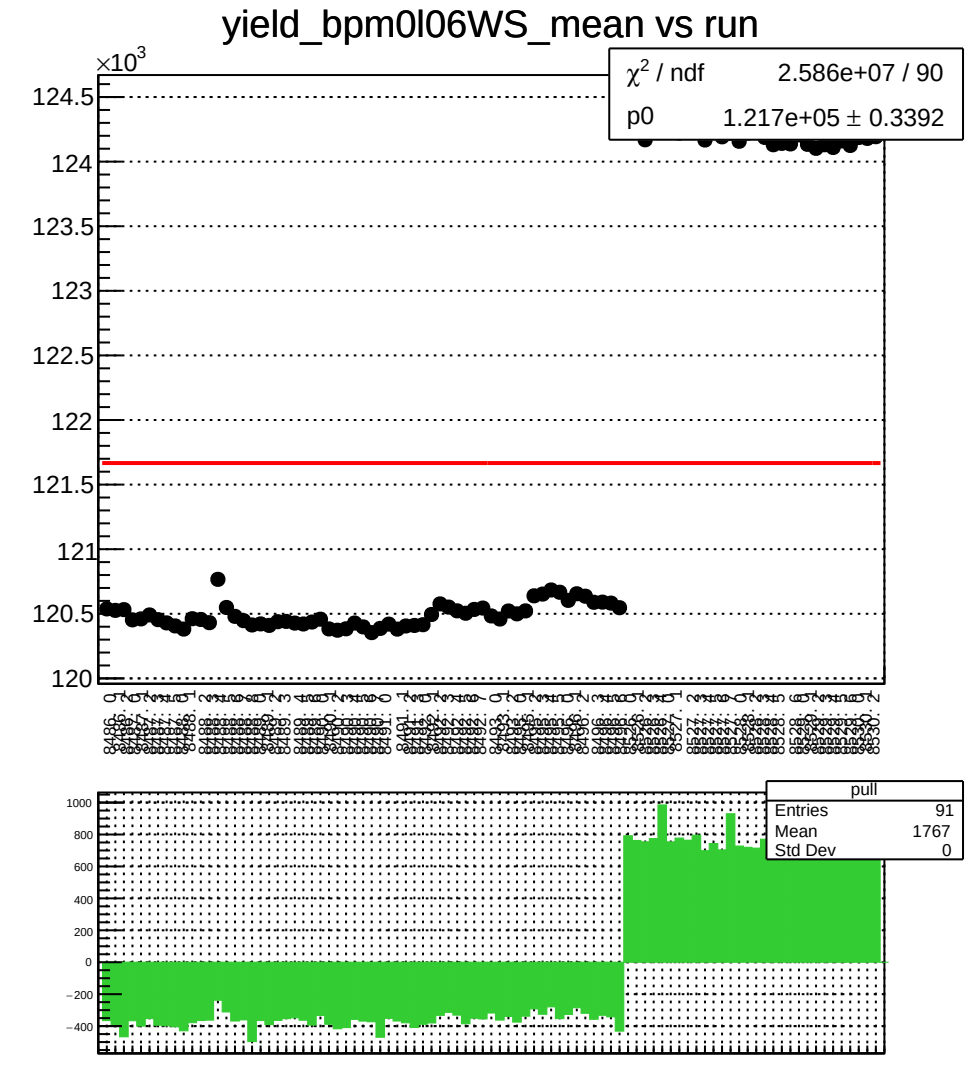

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 1.659e+06 / 90
p0 1.342e+05 ± 0.4428
135.5
135
134.5
134
133.5
133
pull
Entries 91
Mean −273.3
Std Dev 0
100
0
−100
−200
−300

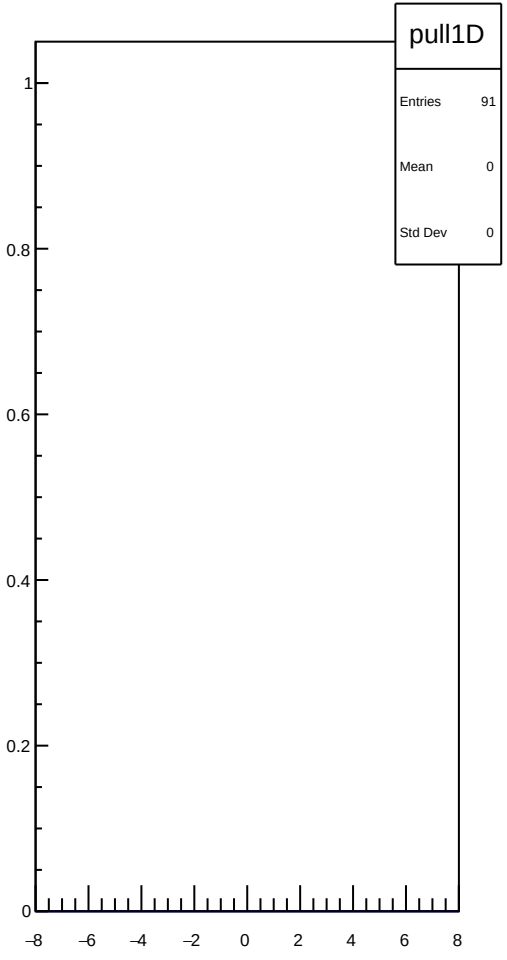

pull1D
Entries 91
Mean −7.668
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

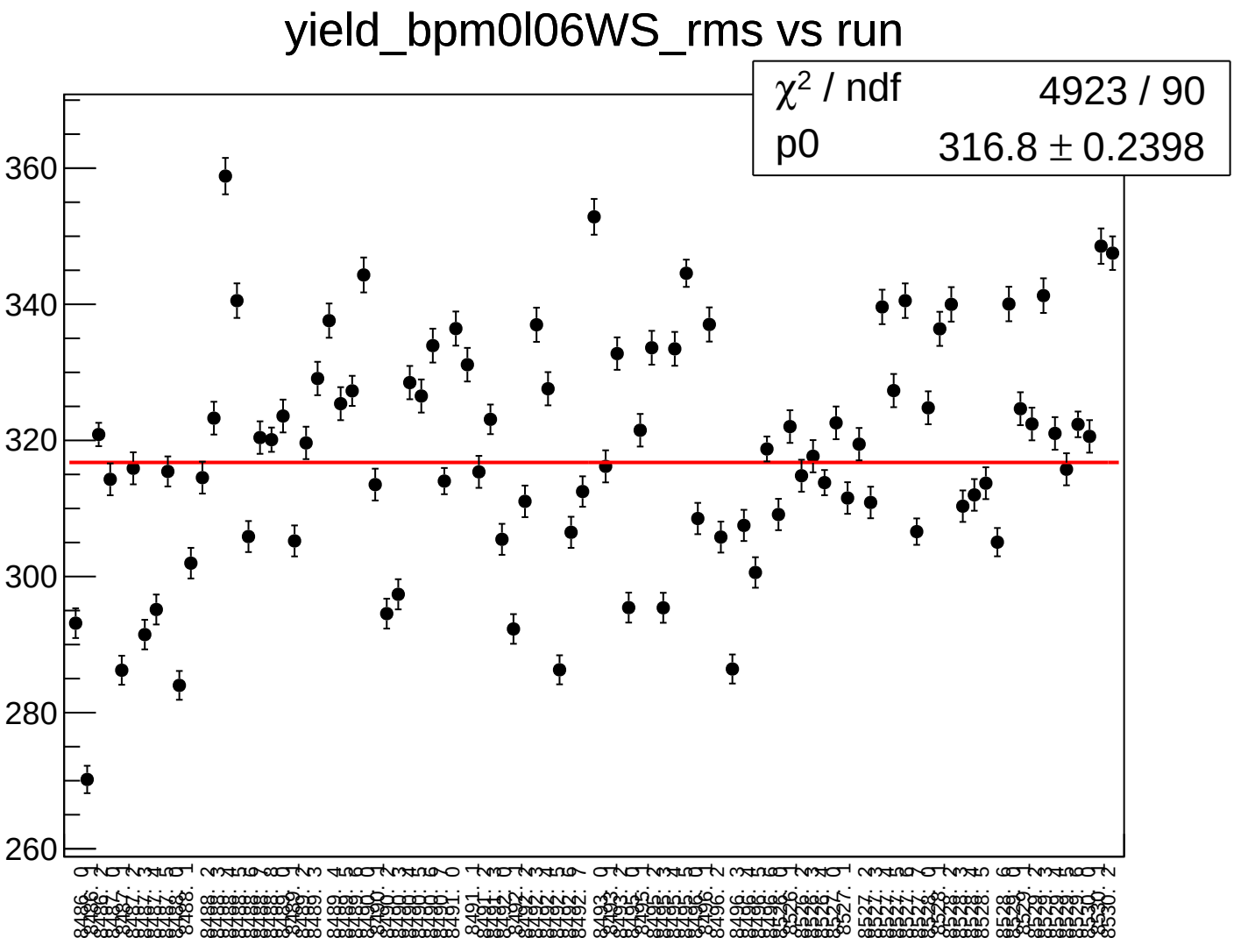

yield_bpm0l04WS_rms vs run
χ² / ndf 2.35e+04 / 90
p0 411.3 ± 0.3131
750
700
650
600
550
500
450
400
350

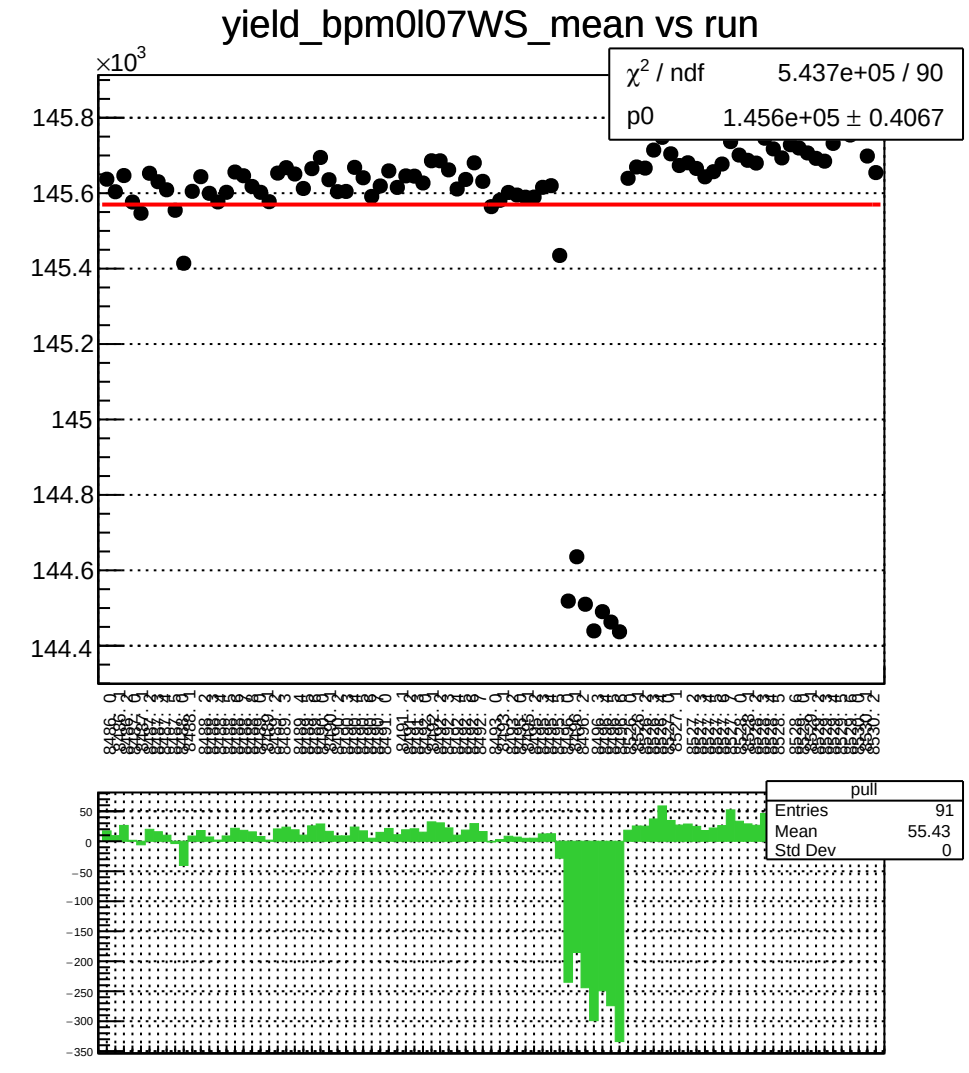

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 7.493e+05 / 90
p0 1.352e+05 ± 0.3633
135.6
135.4
135.2
135
134.8
pull
Entries 91
Mean 6922
Std Dev 0
150
100
50
0
−50
−100
pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

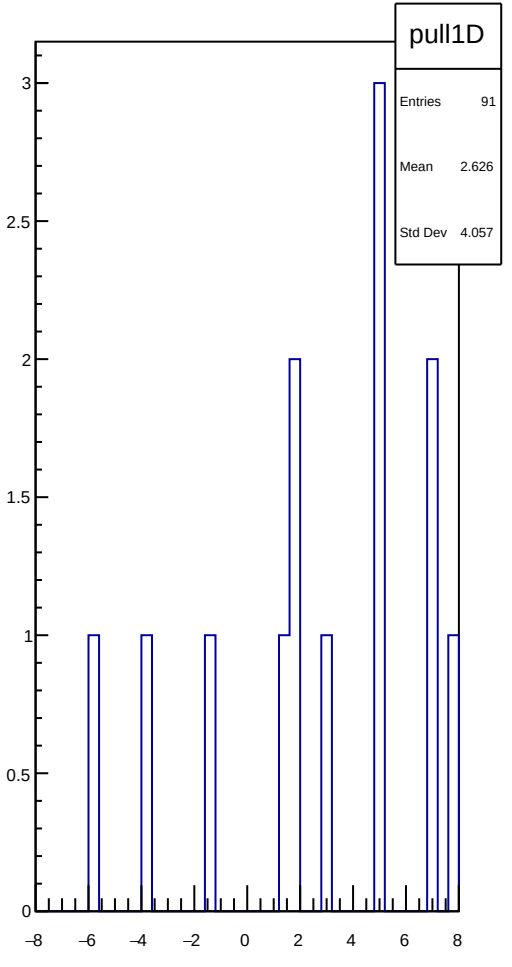

yield_bpm0l05WS_rms vs run
χ² / ndf 3894 / 90
p0 339.4 ± 0.2569
380
360
340
320
300

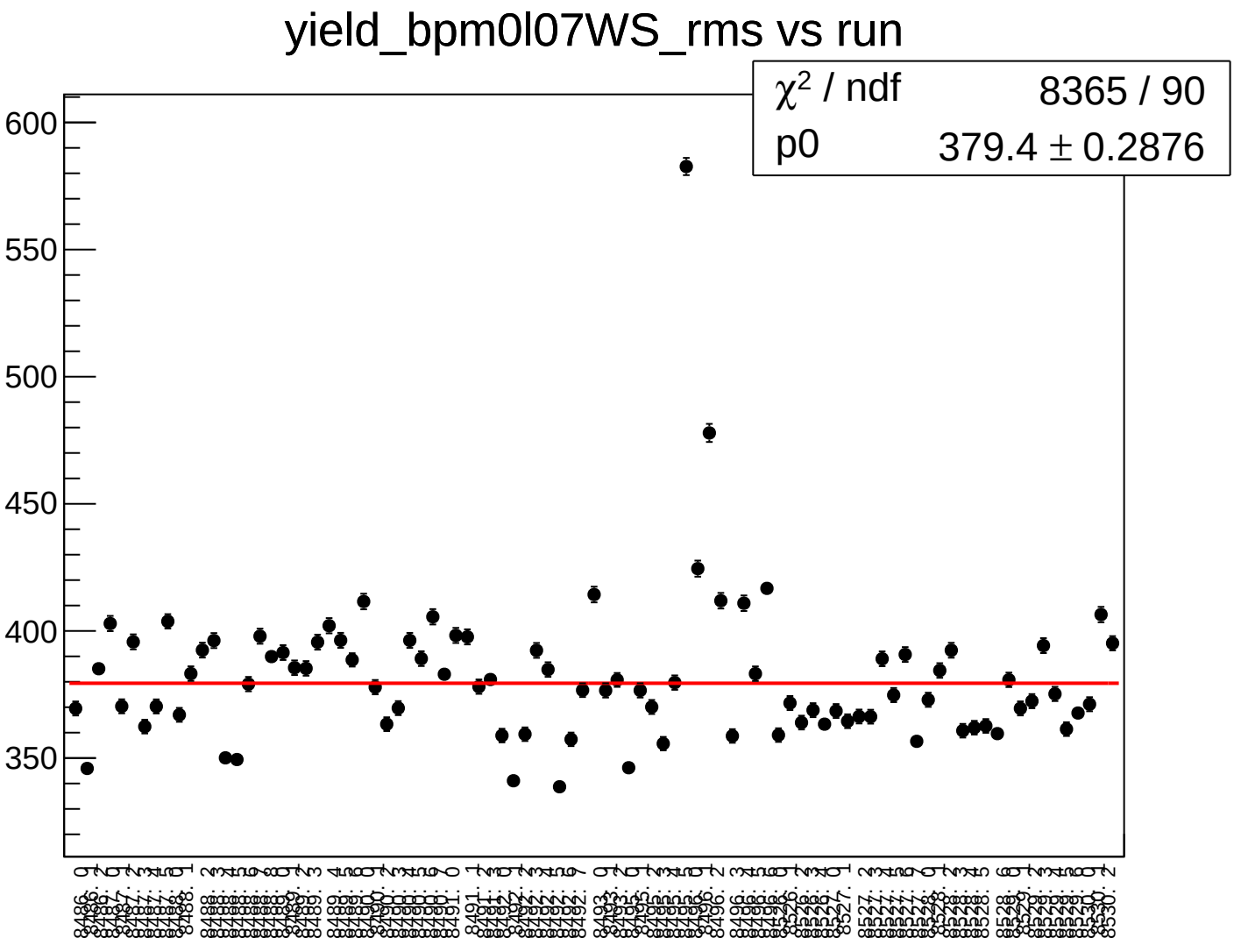

yield_bpm0l06WS_mean vs run
×10^3
χ^2 / ndf 2.586e+07 / 90
p0 1.217e+05 ± 0.3392
124.5
124
123.5
123
122.5
122
121.5
121
120.5
120
pull
Entries 91
Mean 1767
Std Dev 0
1000
800
600
400
200
0
−200
−400

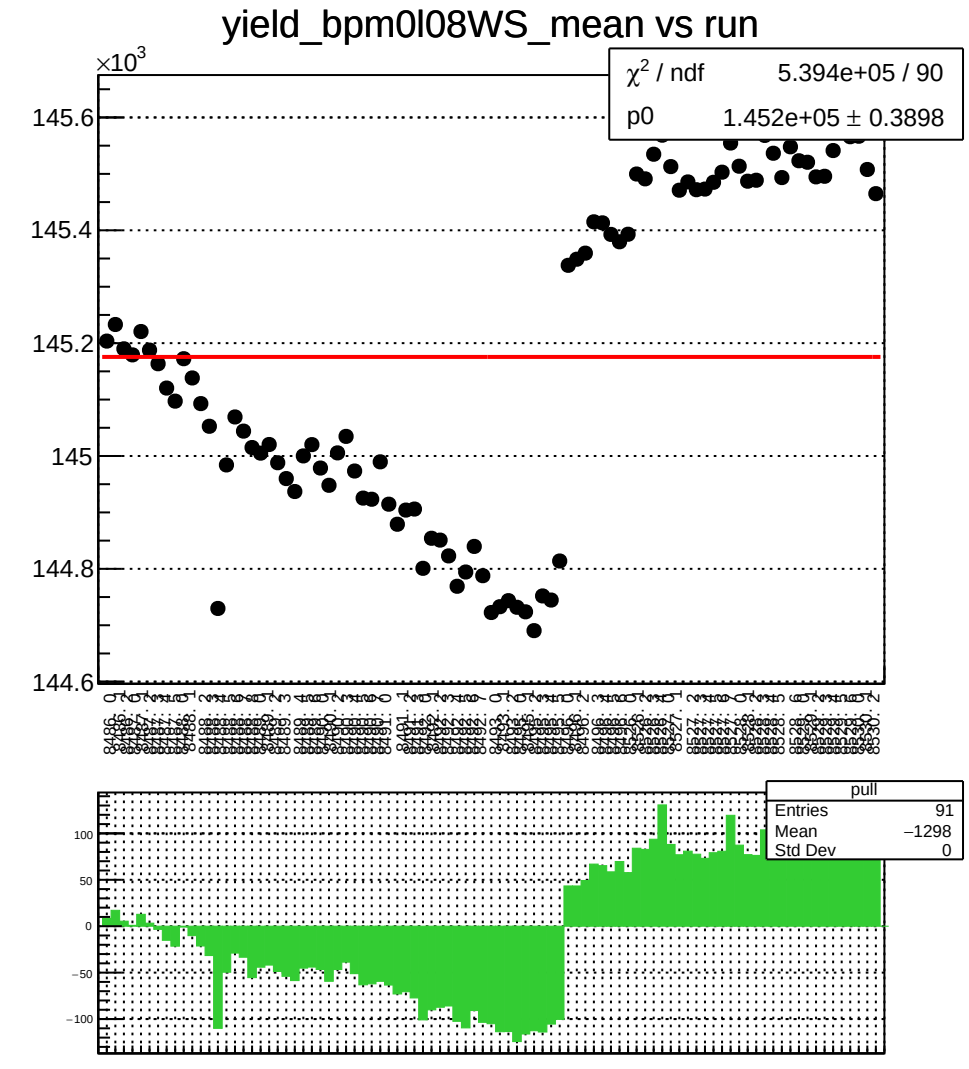

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

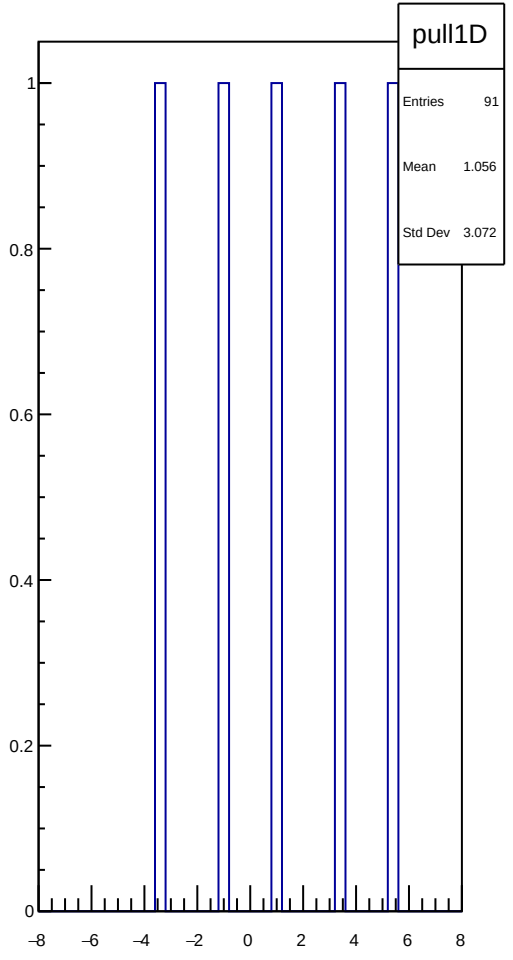

yield_bpm0l06WS_rms vs run
χ² / ndf 4923 / 90
p0 316.8 ± 0.2398
360
340
320
300
280
260

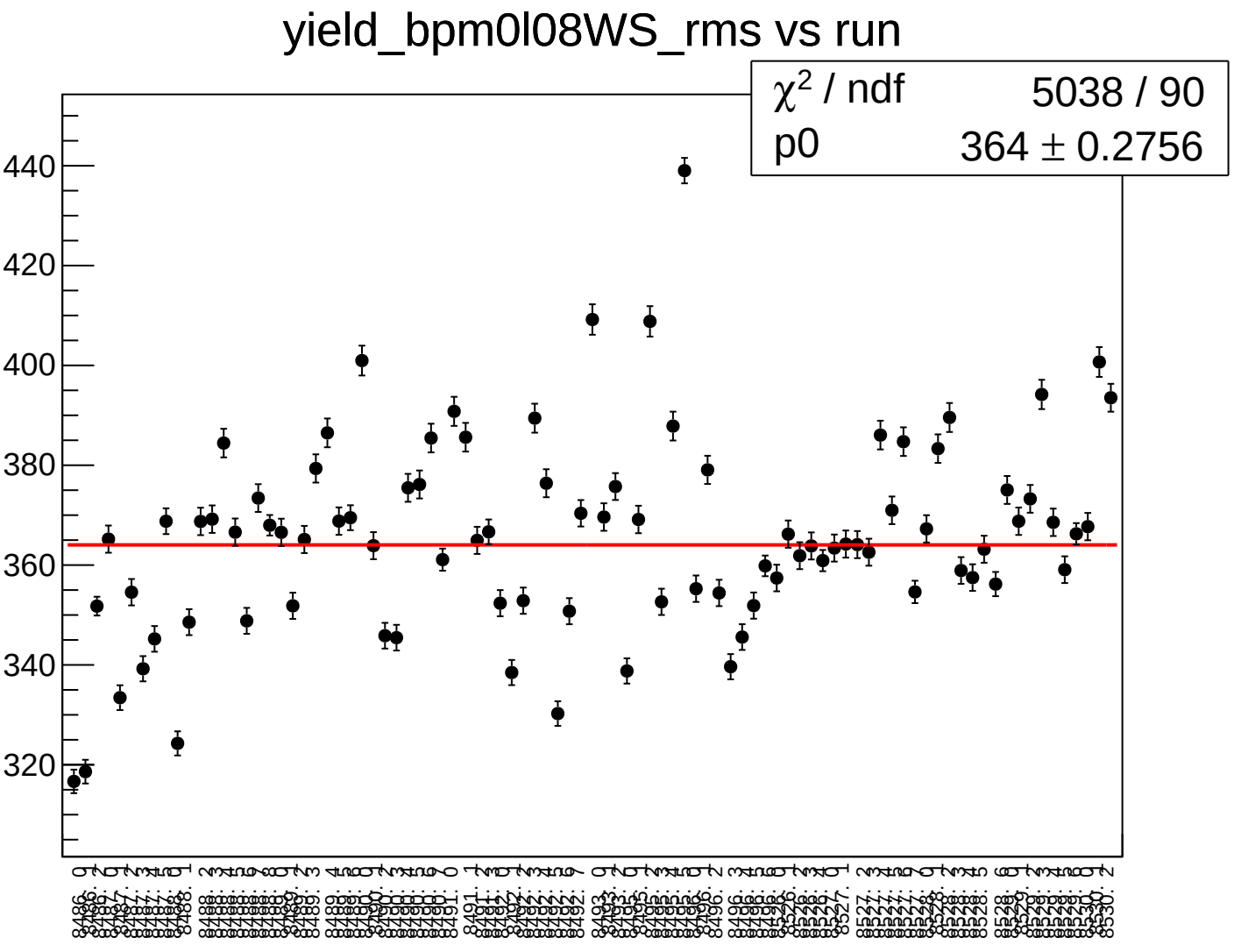

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 5.437e+05 / 90
p0 1.456e+05 ± 0.4067
145.8
145.6
145.4
145.2
145
144.8
144.6
144.4
pull
Entries 91
Mean 55.43
Std Dev 0
50
0
−50
−100
−150
−200
−250
−300
−350

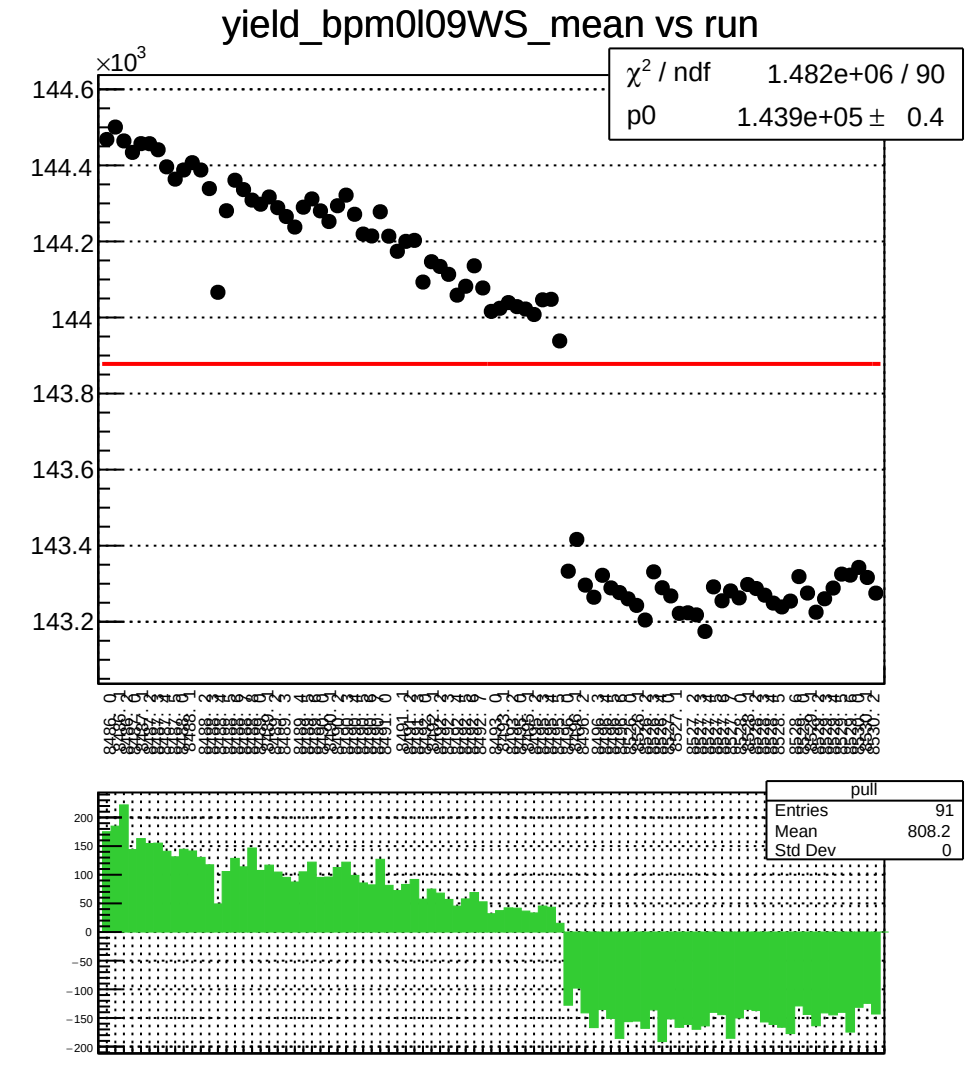

pull1D
Entries 91
Mean 2.626
Std Dev 4.057
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

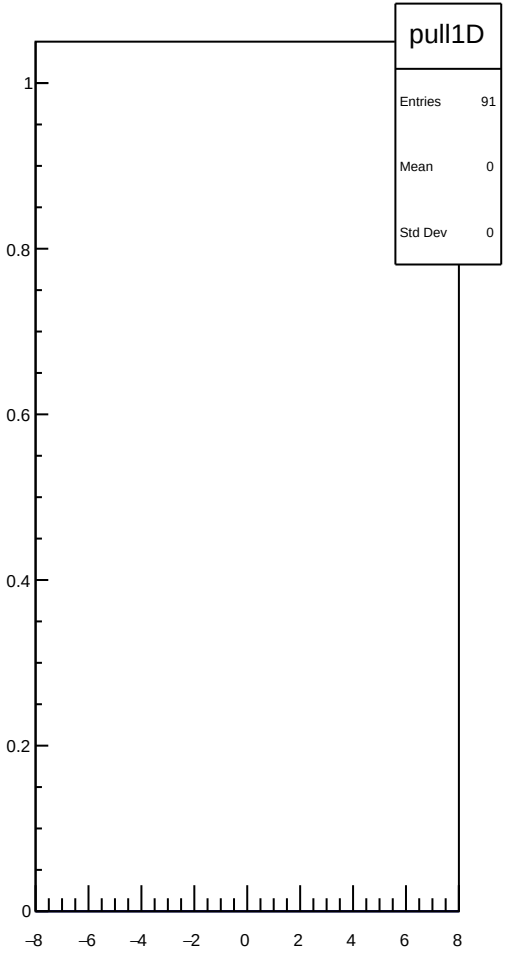

yield_bpm0l07WS_rms vs run
χ^2 / ndf 8365 / 90
p0 379.4 ± 0.2876
600
550
500
450
400
350

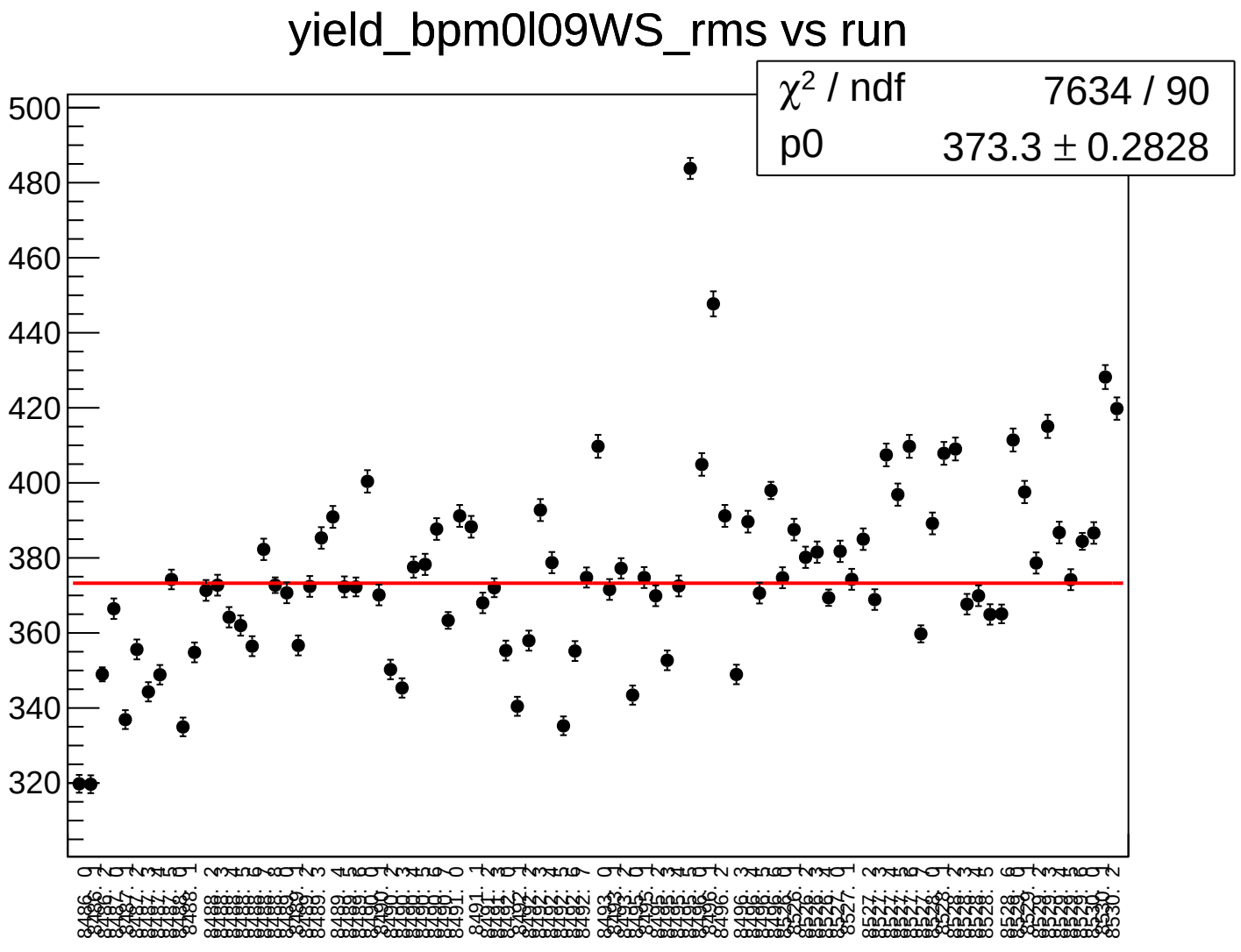

yield_bpm0l08WS_mean vs run
×10^3
χ² / ndf 5.394e+05 / 90
p0 1.452e+05 ± 0.3898
145.6
145.4
145.2
145
144.8
144.6
pull
Entries 91
Mean −1298
Std Dev 0
100
50
0
−50
−100

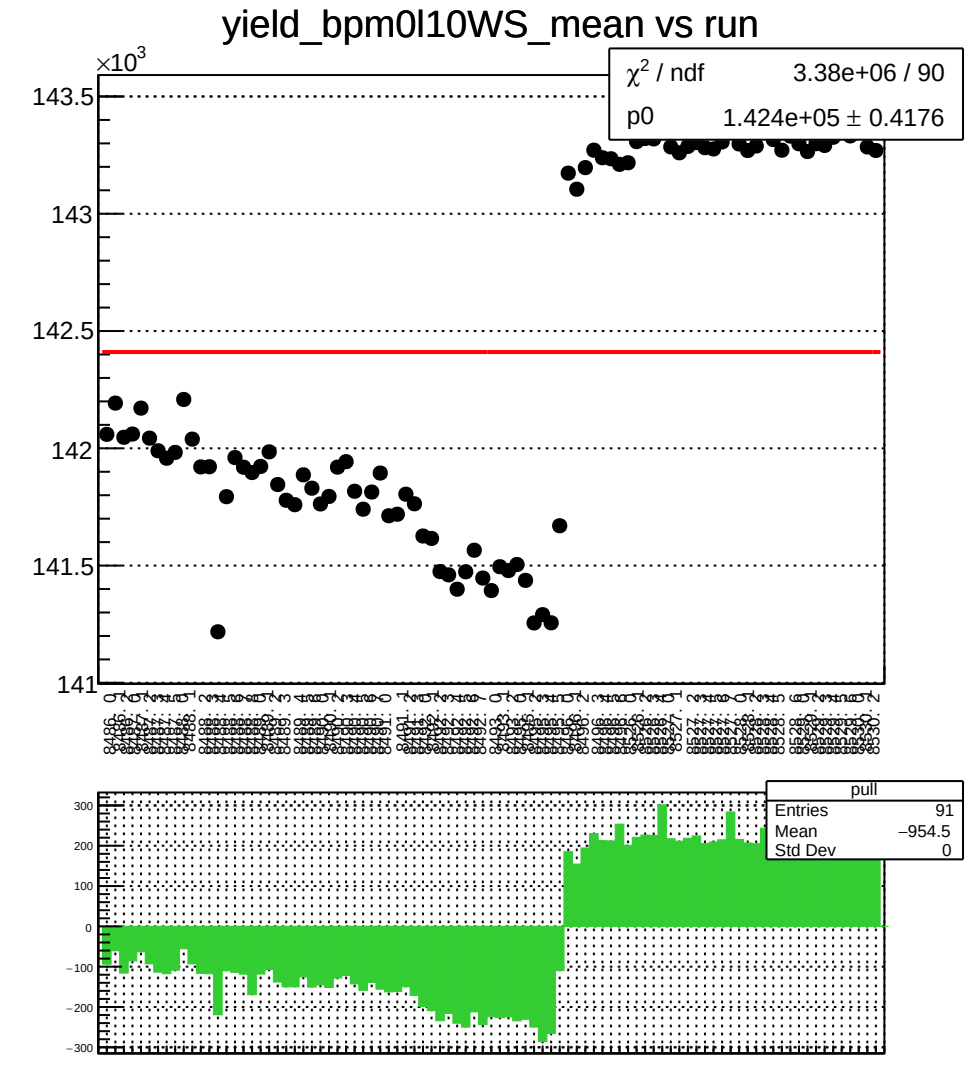

pull1D
Entries 91
Mean 1.056
Std Dev 3.072
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

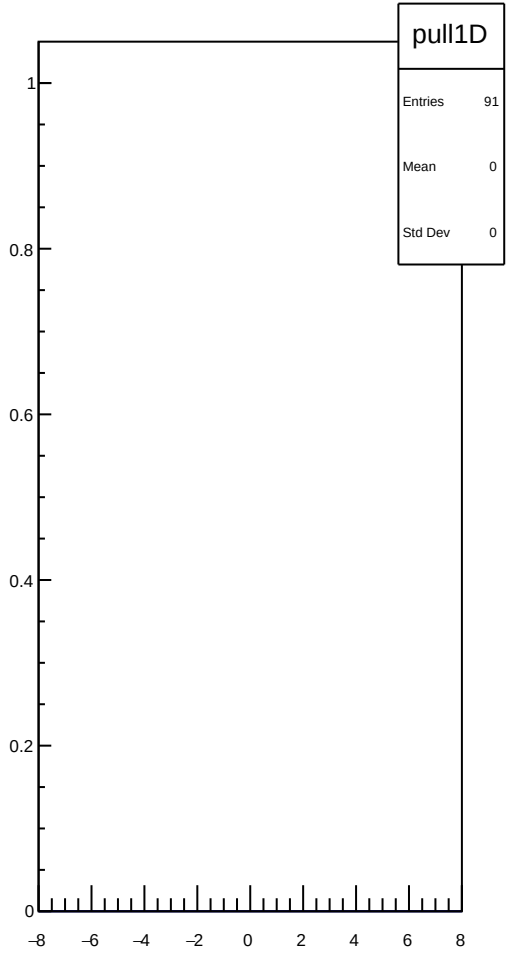

yield_bpm0l08WS_rms vs run
χ^2 / ndf 5038 / 90
p0 364 ± 0.2756
440
420
400
380
360
340
320

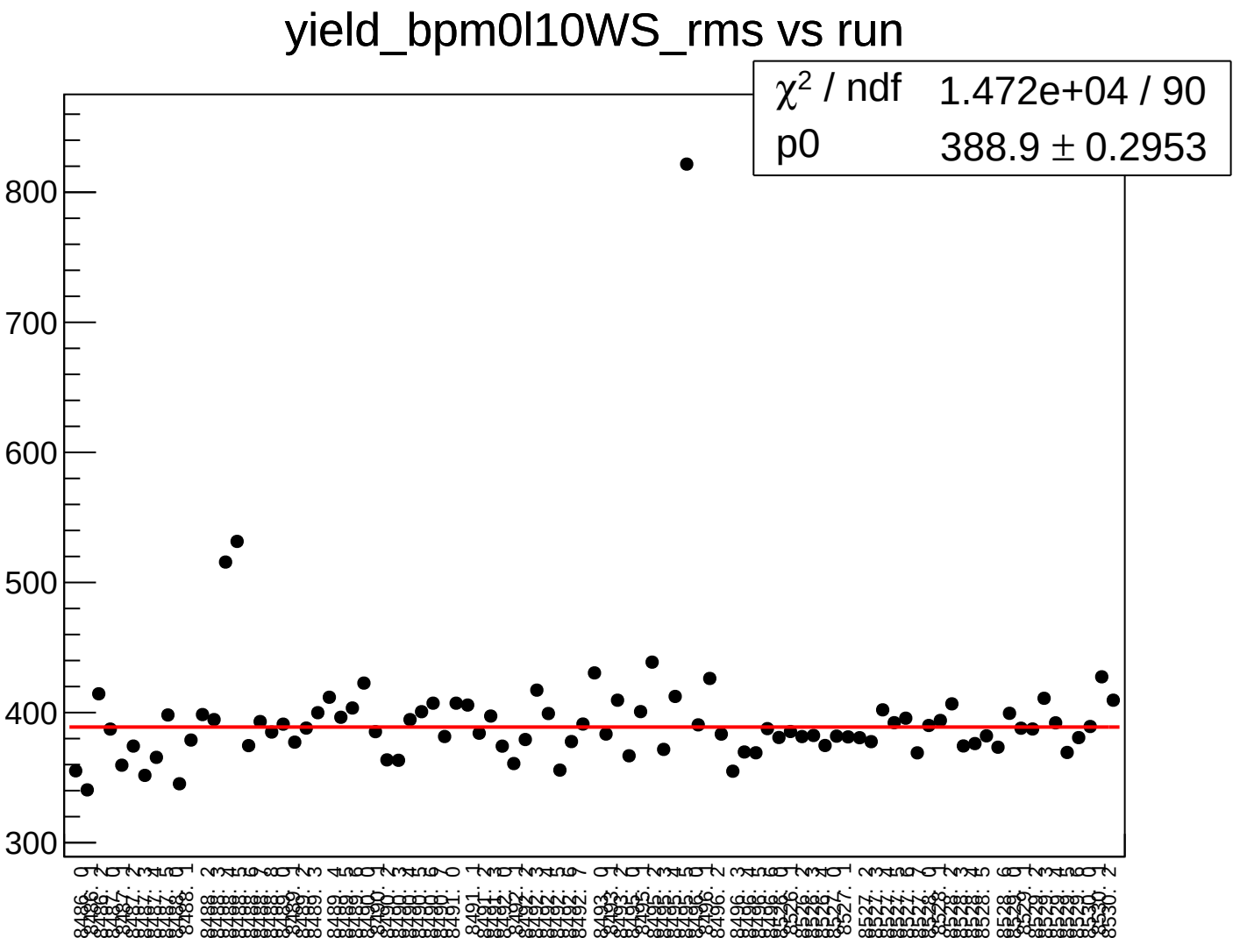

yield_bpm0l09WS_mean vs run
×10^3
χ² / ndf 1.482e+06 / 90
p0 1.439e+05 ± 0.4
144.6
144.4
144.2
144
143.8
143.6
143.4
143.2
pull
Entries 91
Mean 808.2
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

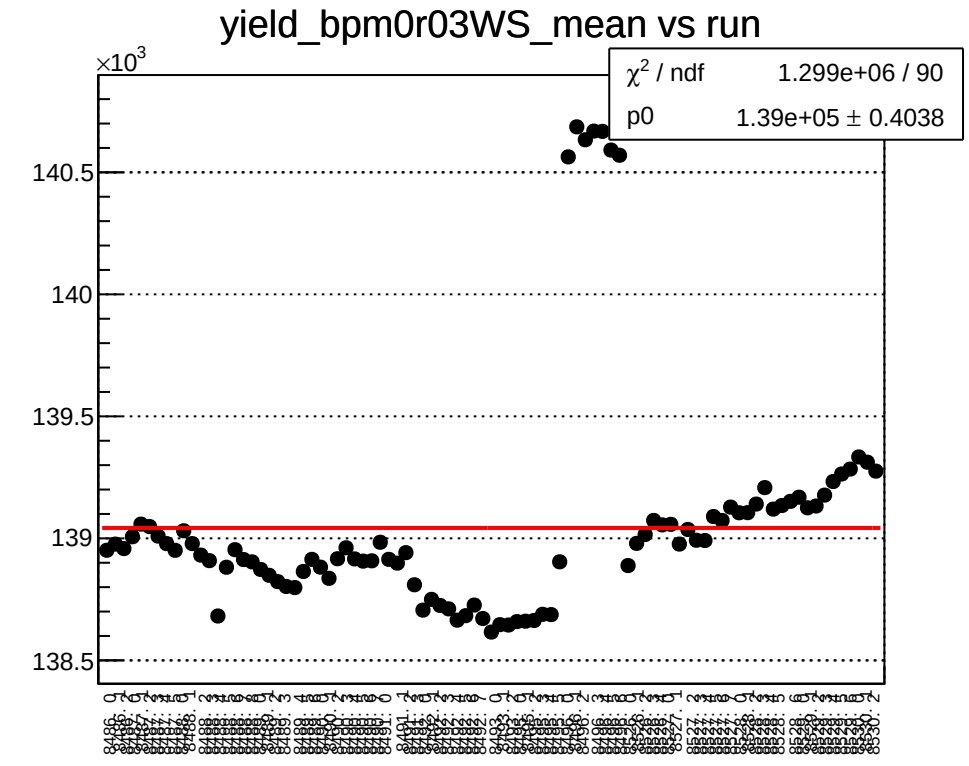

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

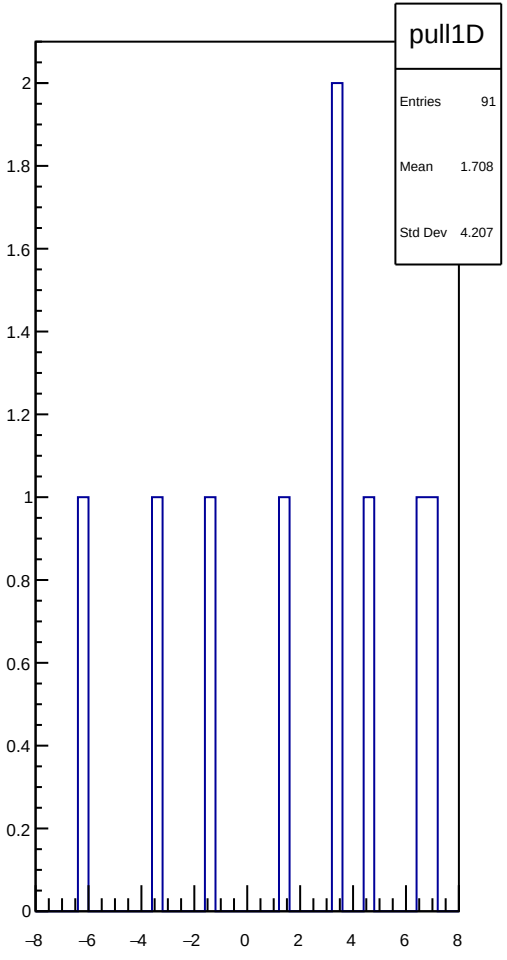

yield_bpm0l09WS_rms vs run
χ² / ndf 7634 / 90
p0 373.3 ± 0.2828
500
480
460
440
420
400
380
360
340
320

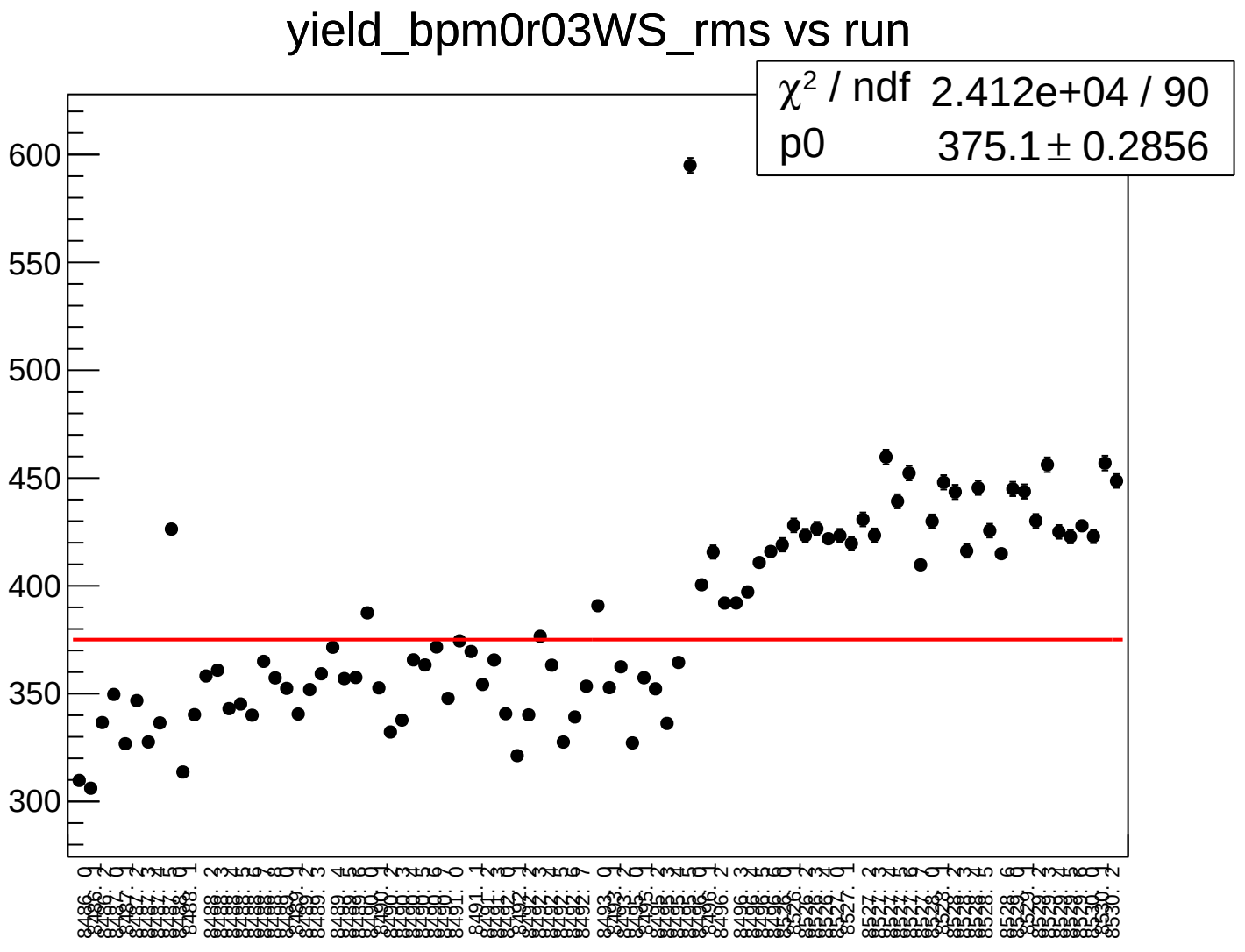

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 3.38e+06 / 90
p0 1.424e+05 ± 0.4176
143.5
143
142.5
142
141.5
141
pull
Entries 91
Mean −954.5
Std Dev 0
300
200
100
0
−100
−200
−300

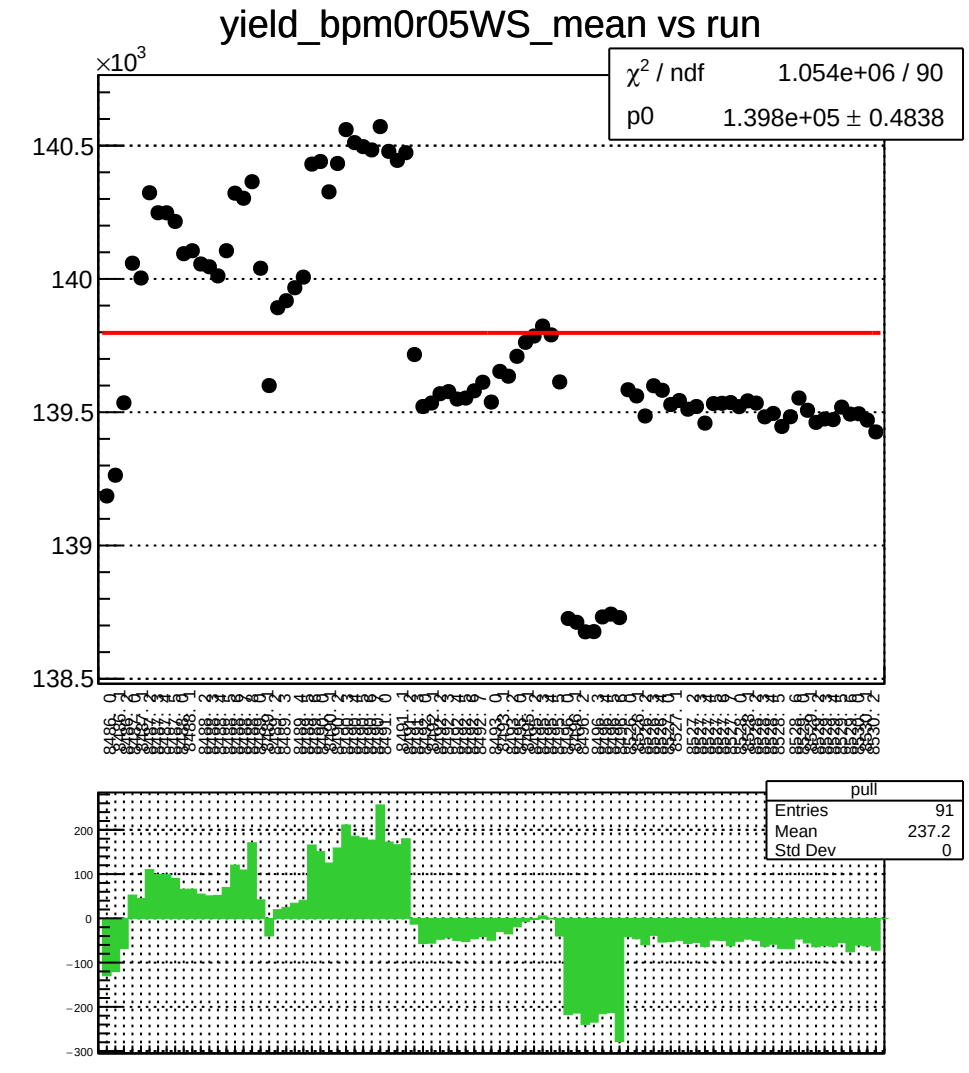

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

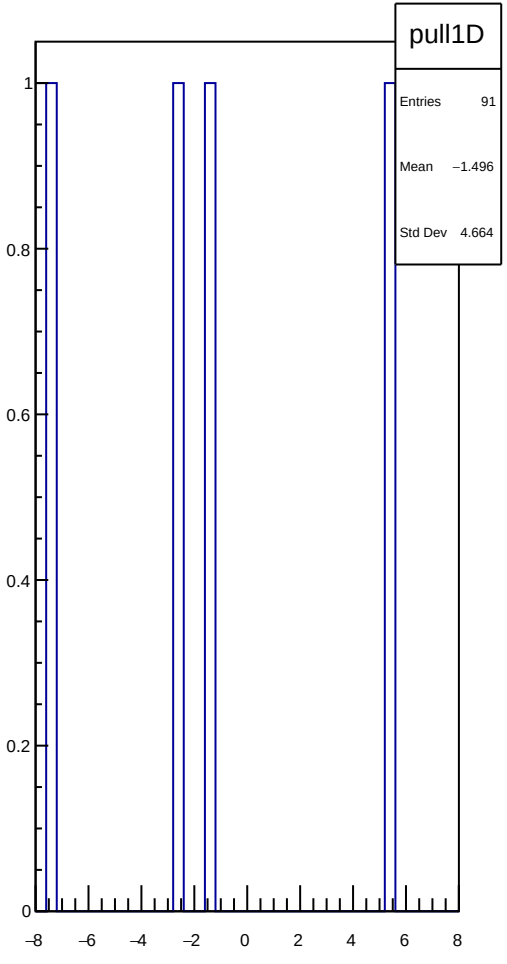

yield_bpm0l10WS_rms vs run
χ² / ndf 1.472e+04 / 90
p0 388.9 ± 0.2953
800
700
600
500
400
300

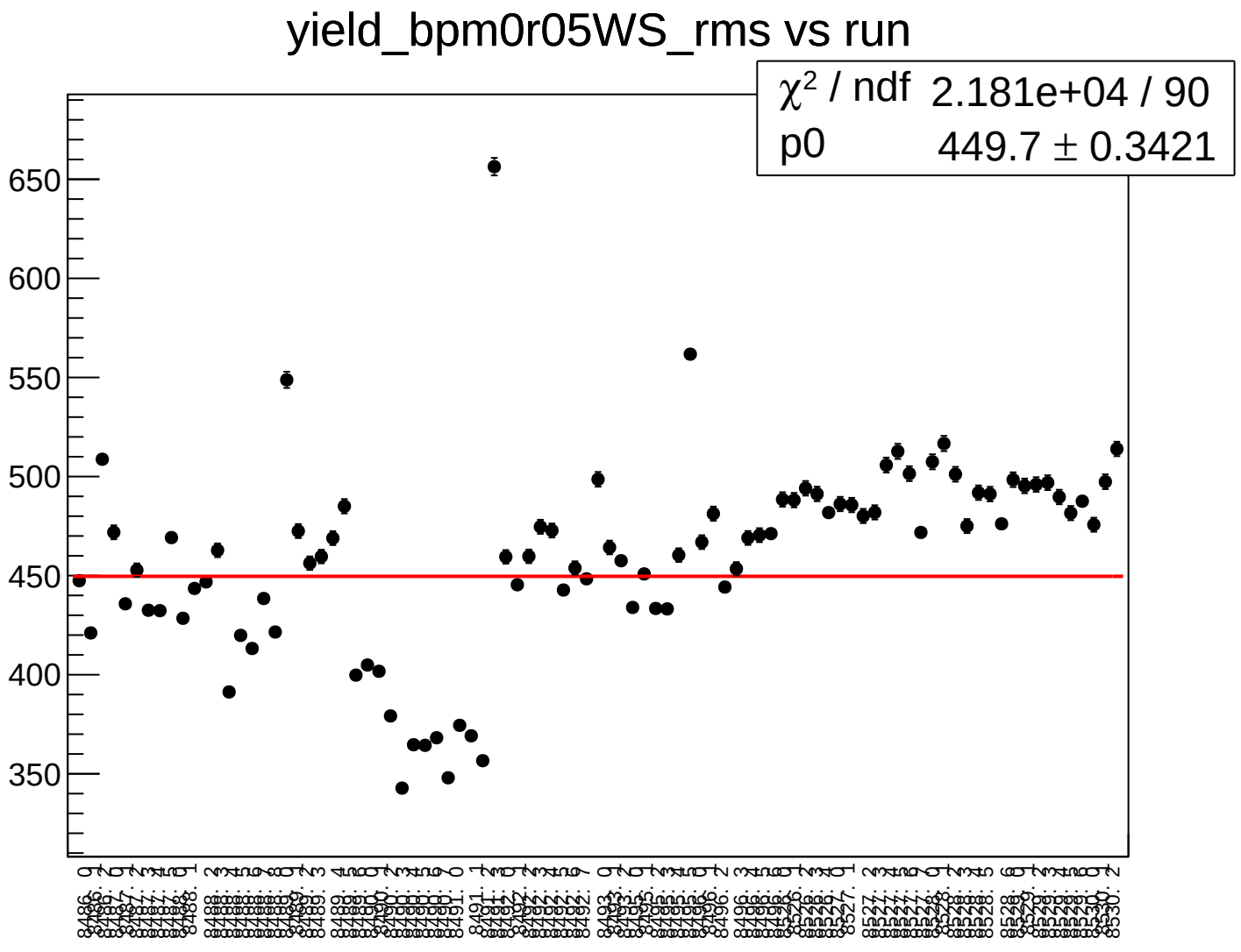

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 1.299e+06 / 90
p0 1.39e+05 ± 0.4038
140.5
140
139.5
139
138.5
pull
Entries 91
Mean 284.1
Std Dev 0
400
300
200
100
0
−100

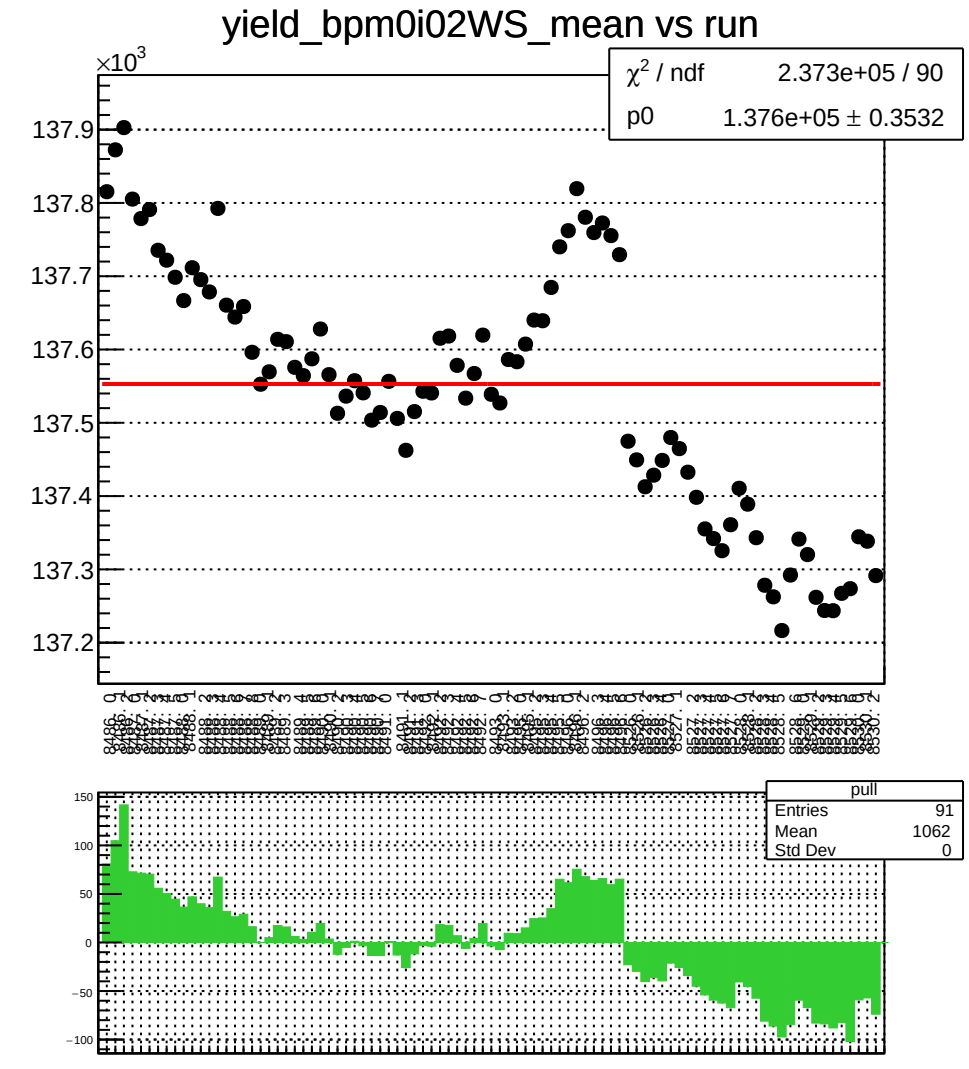

pull1D
Entries 91
Mean 1.708
Std Dev 4.207
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

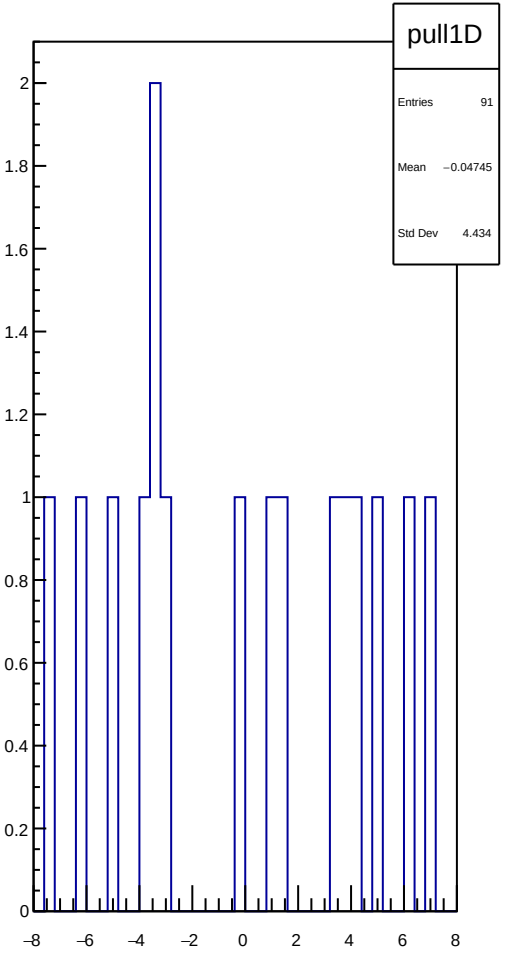

yield_bpm0r03WS_rms vs run
χ² / ndf 2.412e+04 / 90
p0 375.1 ± 0.2856
600
550
500
450
400
350
300

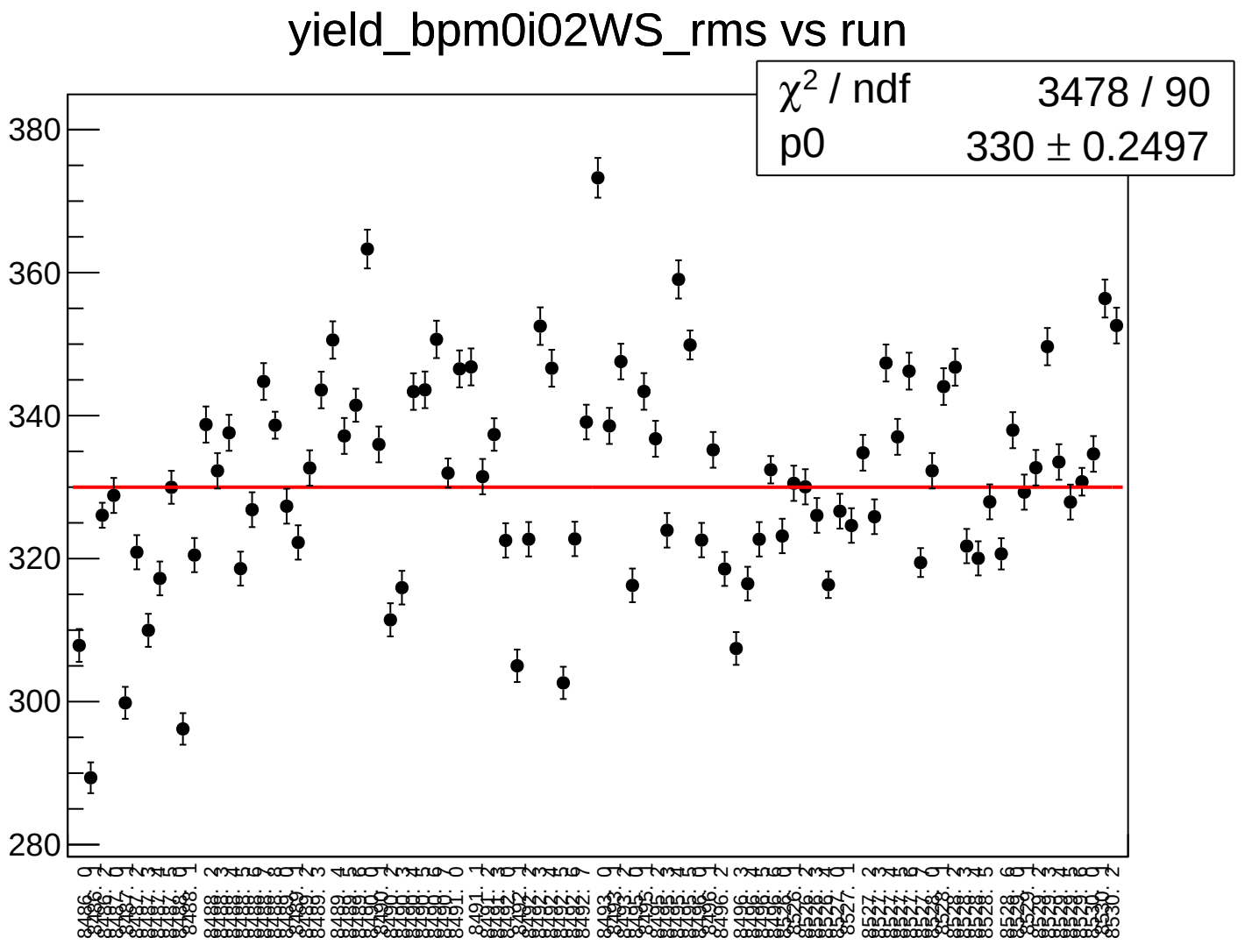

yield_bpm0r05WS_mean vs run
×10^3
χ² / ndf 1.054e+06 / 90
p0 1.398e+05 ± 0.4838
140.5
140
139.5
139
138.5
pull
Entries 91
Mean 237.2
Std Dev 0
200
100
0
−100
−200
−300

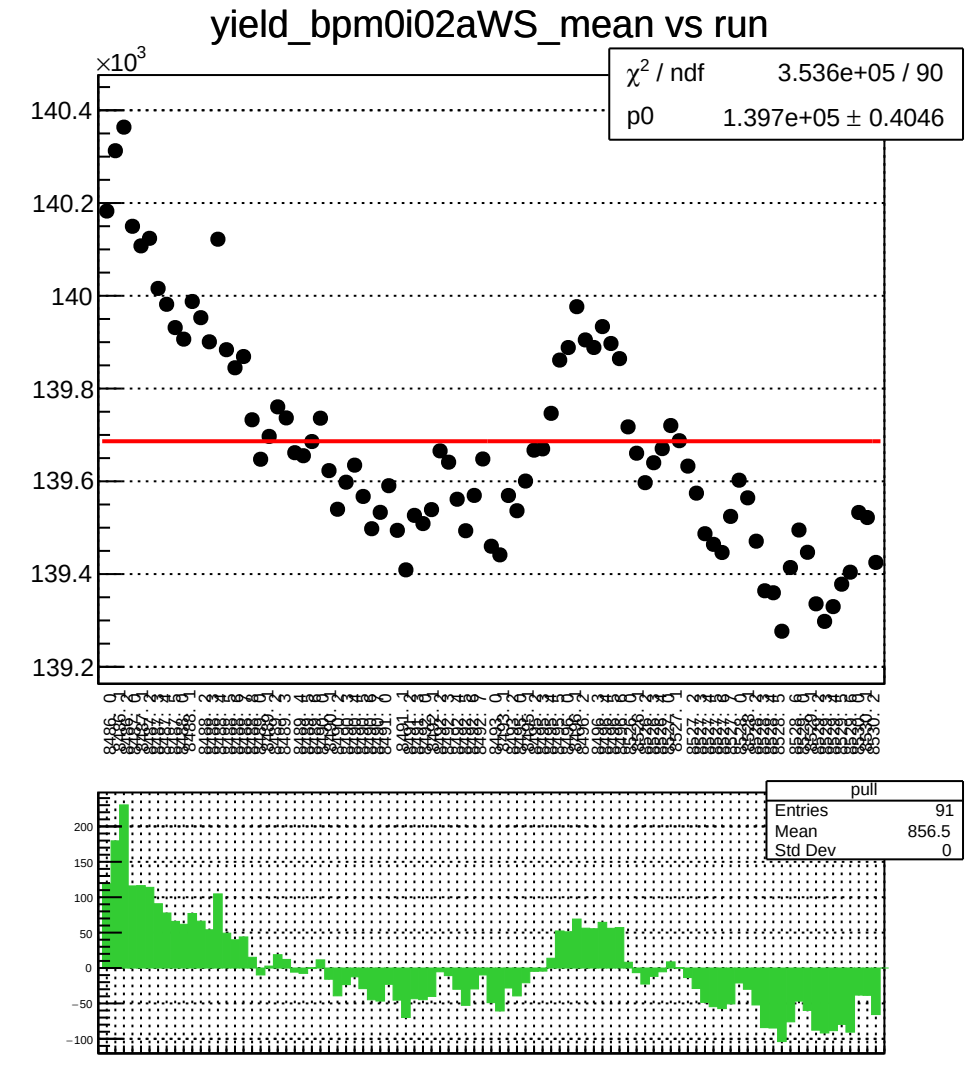

pull1D
Entries 91
Mean −1.496
Std Dev 4.664
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

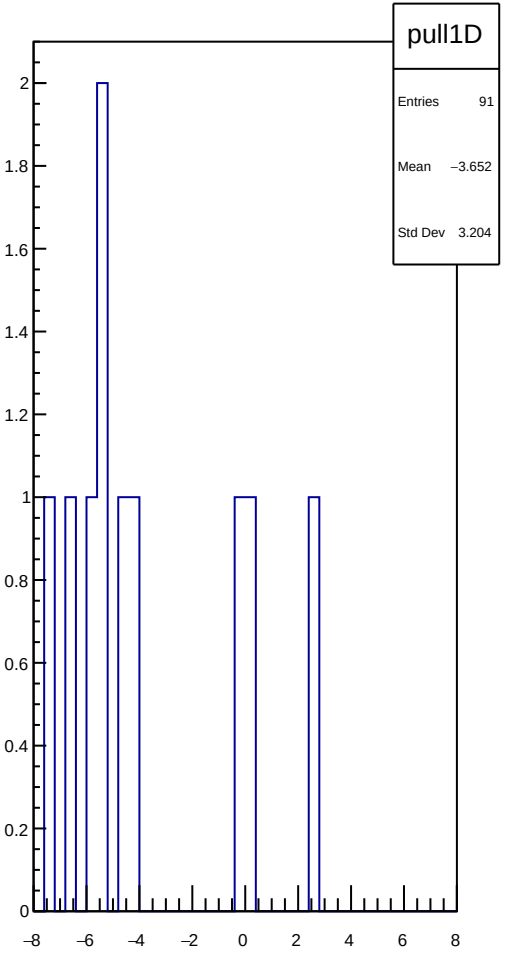

yield_bpm0r05WS_rms vs run
χ² / ndf 2.181e+04 / 90
p0 449.7 ± 0.3421
650
600
550
500
450
400
350

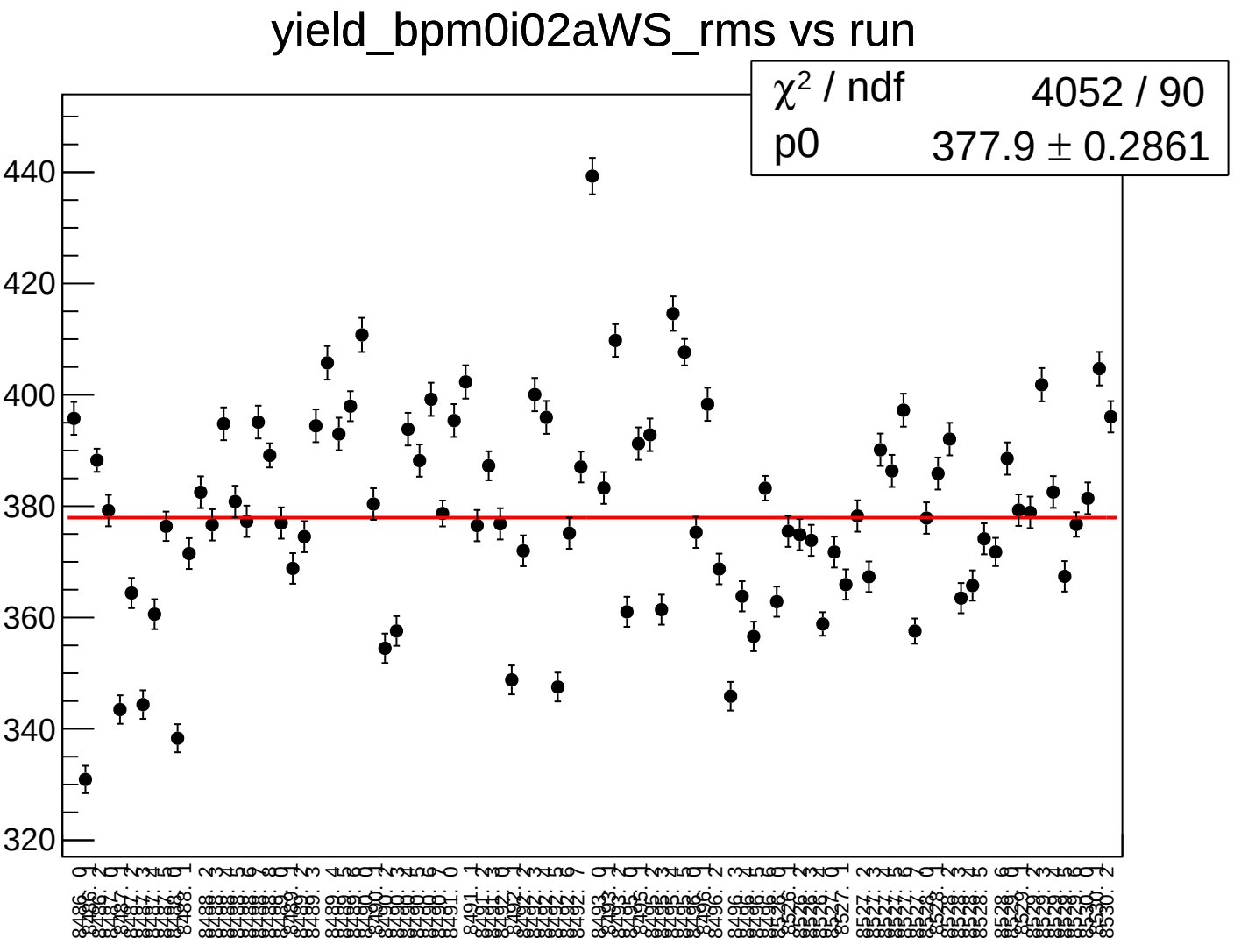

yield_bpm0i02WS_mean vs run
×10^3
χ^2 / ndf 2.373e+05 / 90
p0 1.376e+05 ± 0.3532
137.9
137.8
137.7
137.6
137.5
137.4
137.3
137.2
pull
Entries 91
Mean 1062
Std Dev 0
150
100
50
0
−50
−100

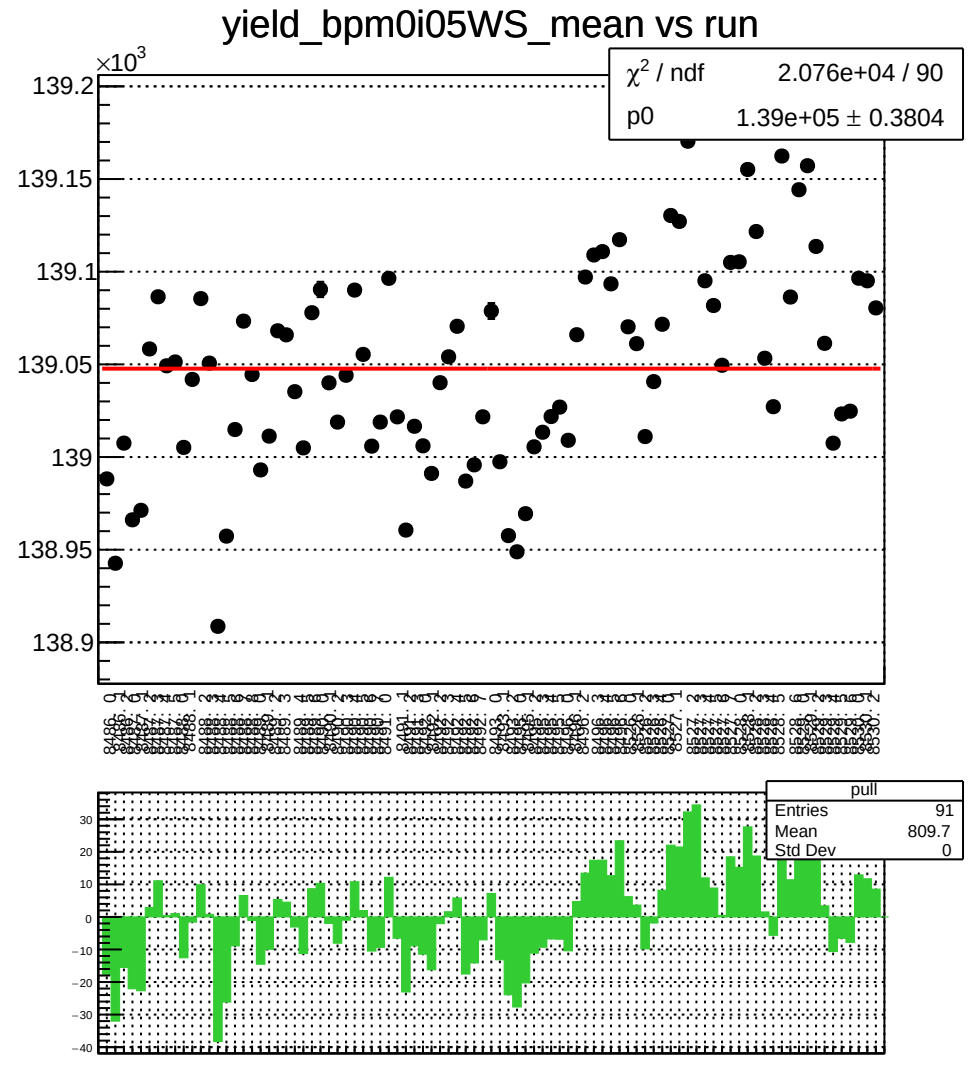

pull1D
Entries 91
Mean −0.04745
Std Dev 4.434
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

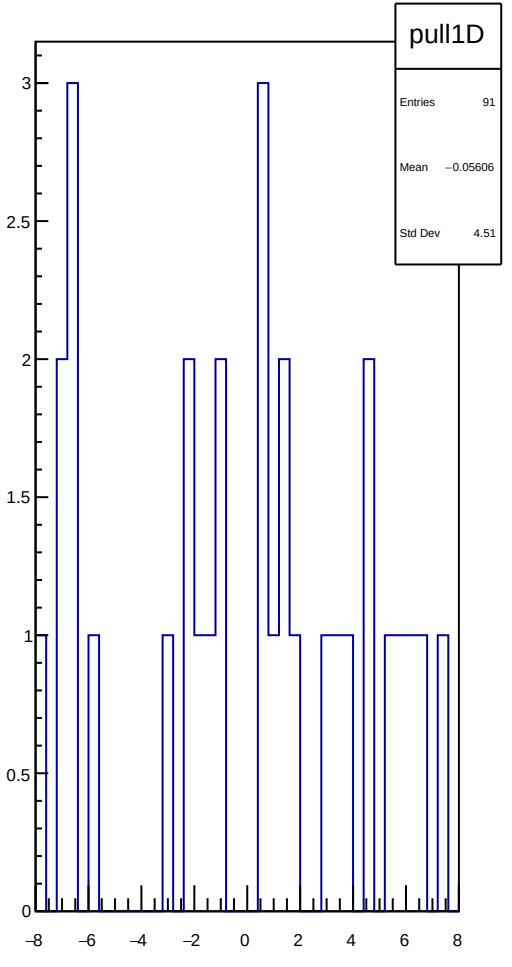

yield_bpm0i02WS_rms vs run
χ² / ndf 3478 / 90
p0 330 ± 0.2497
380
360
340
320
300
280

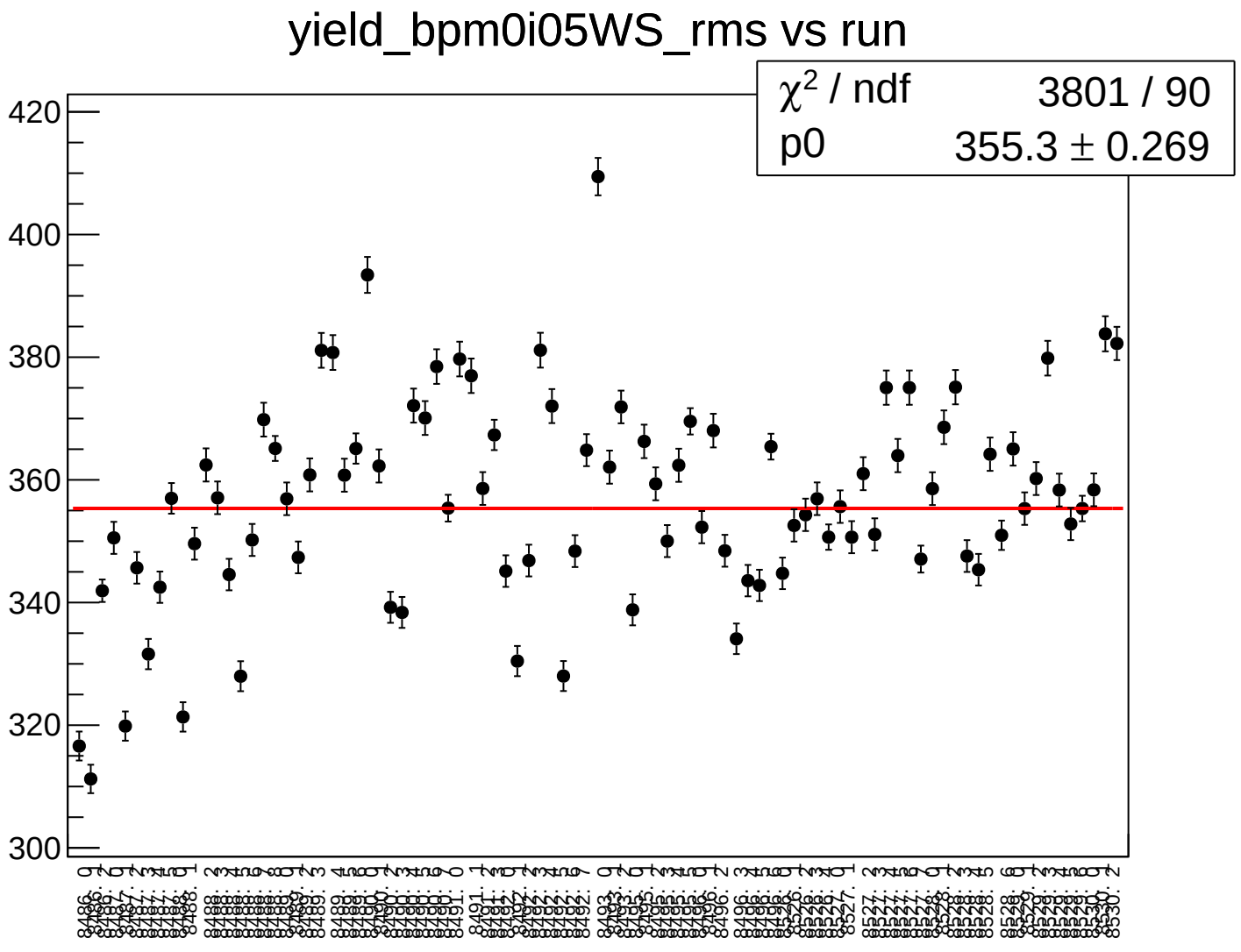

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 3.536e+05 / 90
p0 1.397e+05 ± 0.4046
140.4
140.2
140
139.8
139.6
139.4
139.2
pull
Entries 91
Mean 856.5
Std Dev 0
200
150
100
50
0
−50
−100

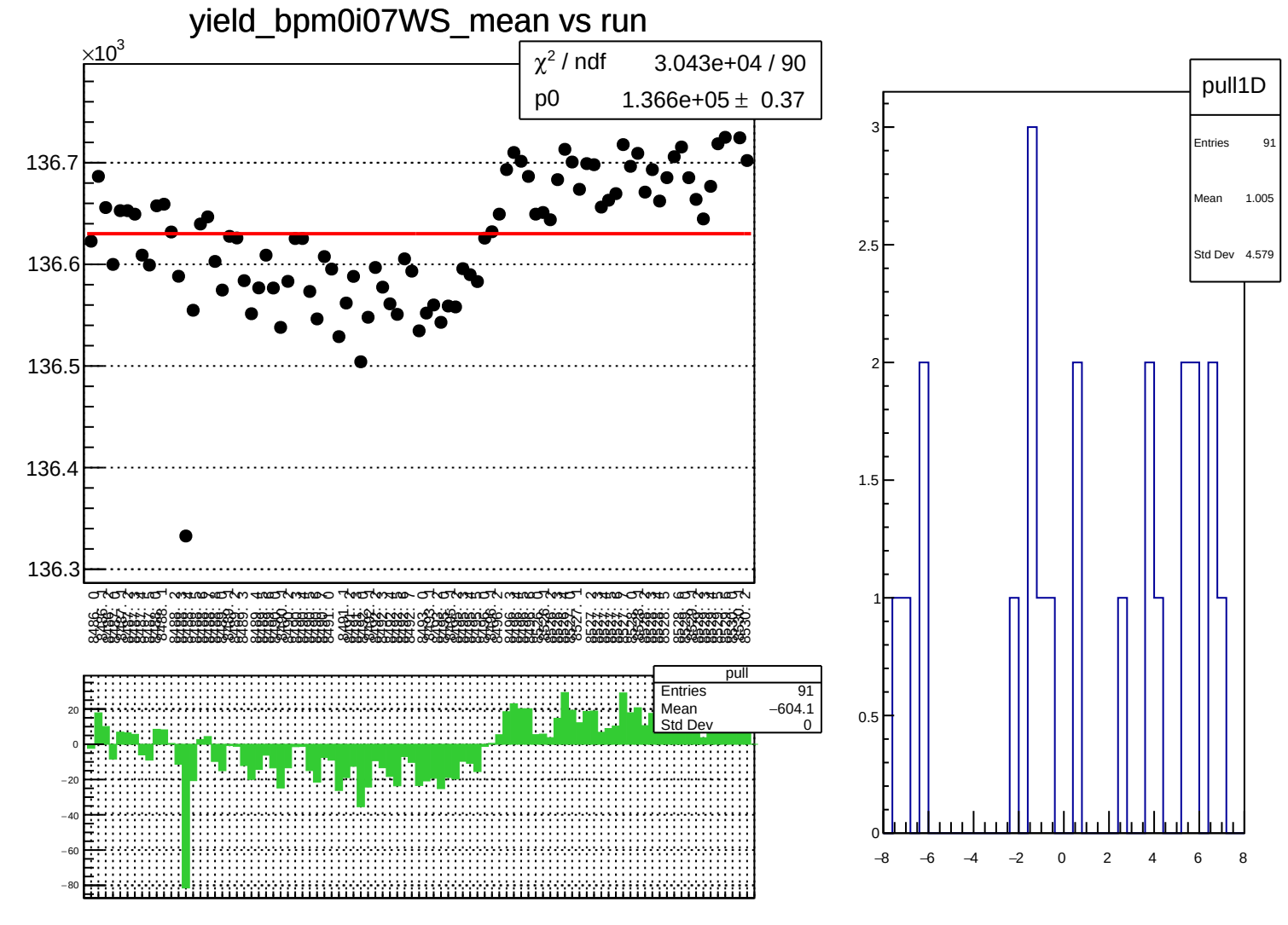

pull1D
Entries 91
Mean −3.652
Std Dev 3.204
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

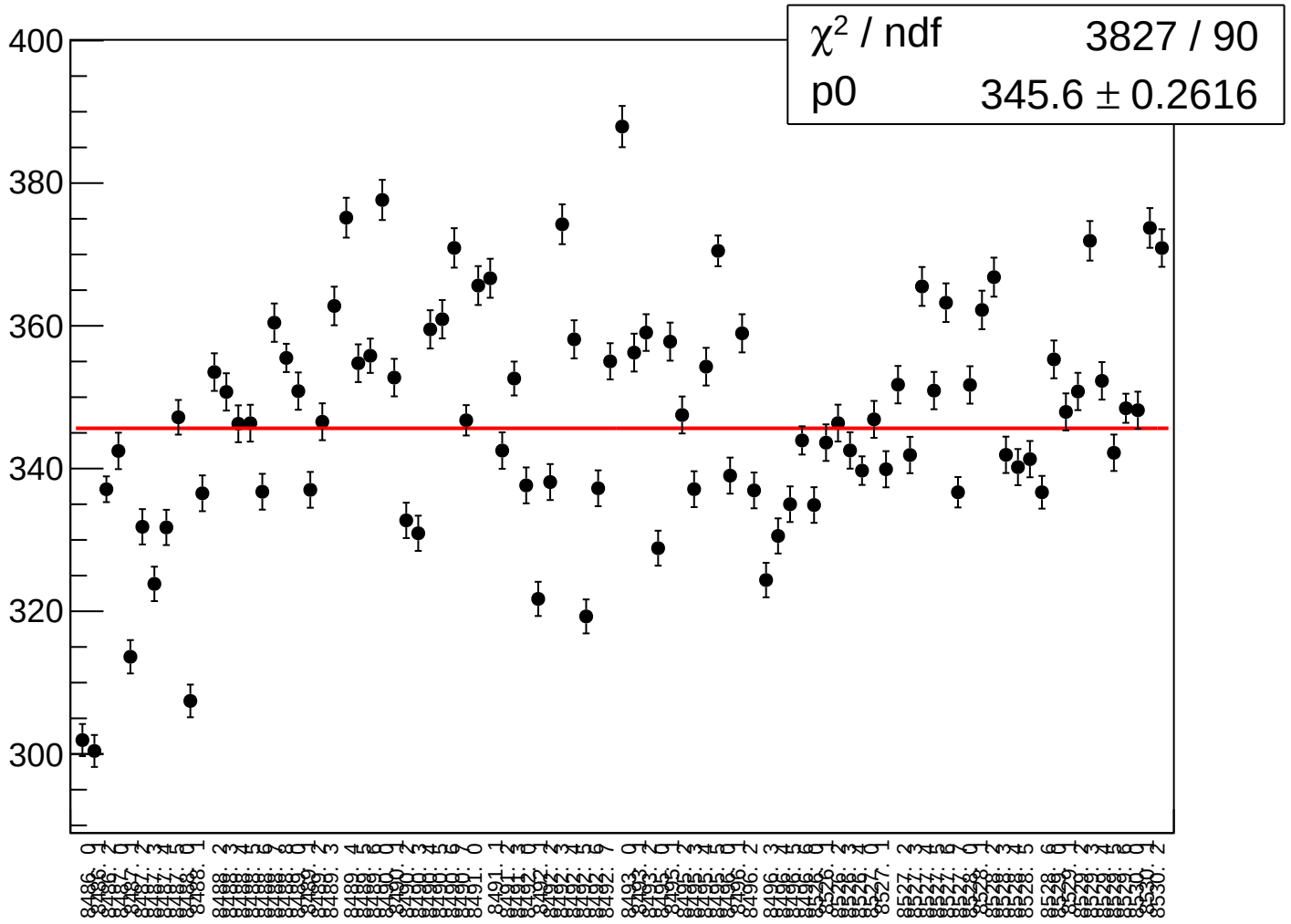

yield_bpm0i02aWS_rms vs run
χ² / ndf 4052 / 90
p0 377.9 ± 0.2861
440
420
400
380
360
340
320

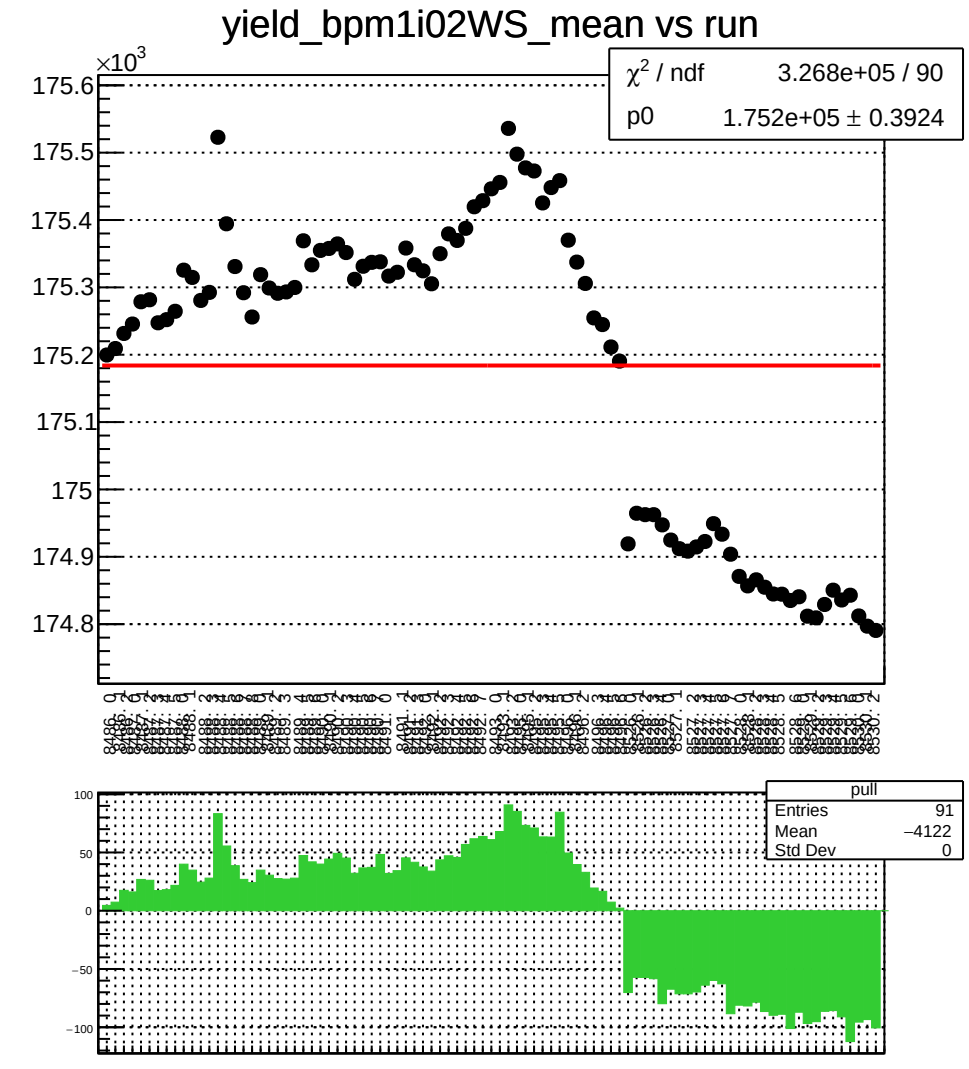

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 2.076e+04 / 90
p0 1.39e+05 ± 0.3804
139.2
139.15
139.1
139.05
139
138.95
138.9
pull
Entries 91
Mean 809.7
Std Dev 0
30
20
10
0
−10
−20
−30
−40

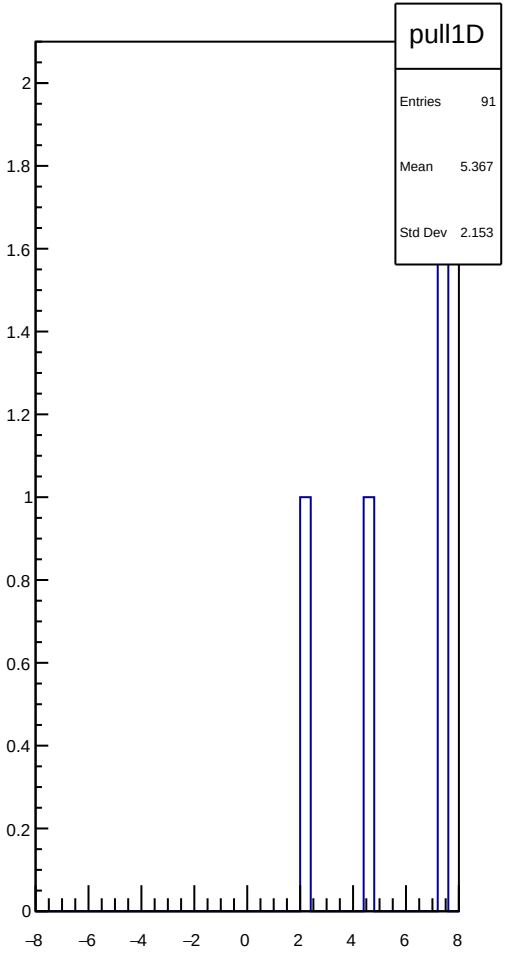

pull1D
Entries 91
Mean −0.05606
Std Dev 4.51
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

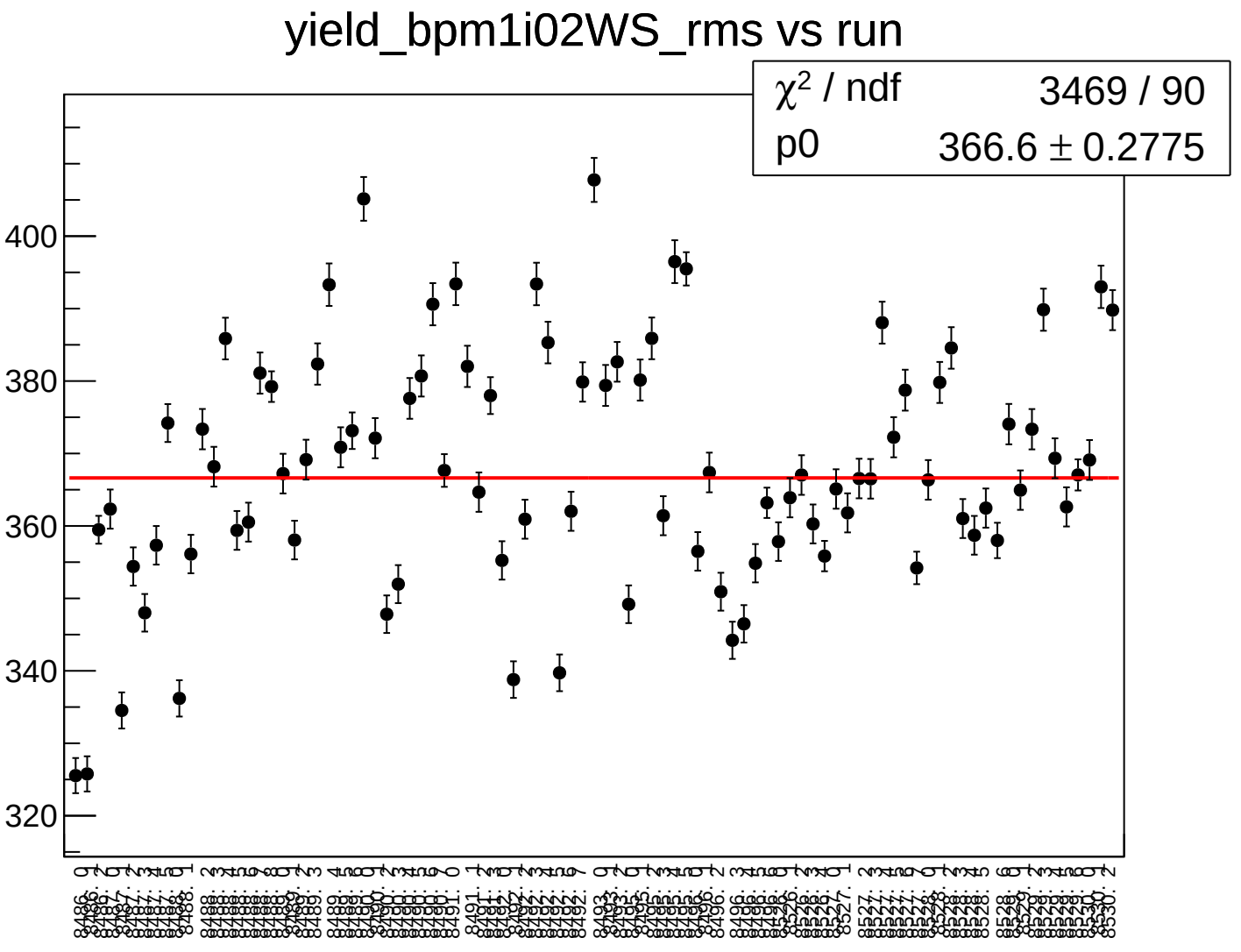

yield_bpm0i05WS_rms vs run
χ² / ndf 3801 / 90
p0 355.3 ± 0.269
420
400
380
360
340
320
300

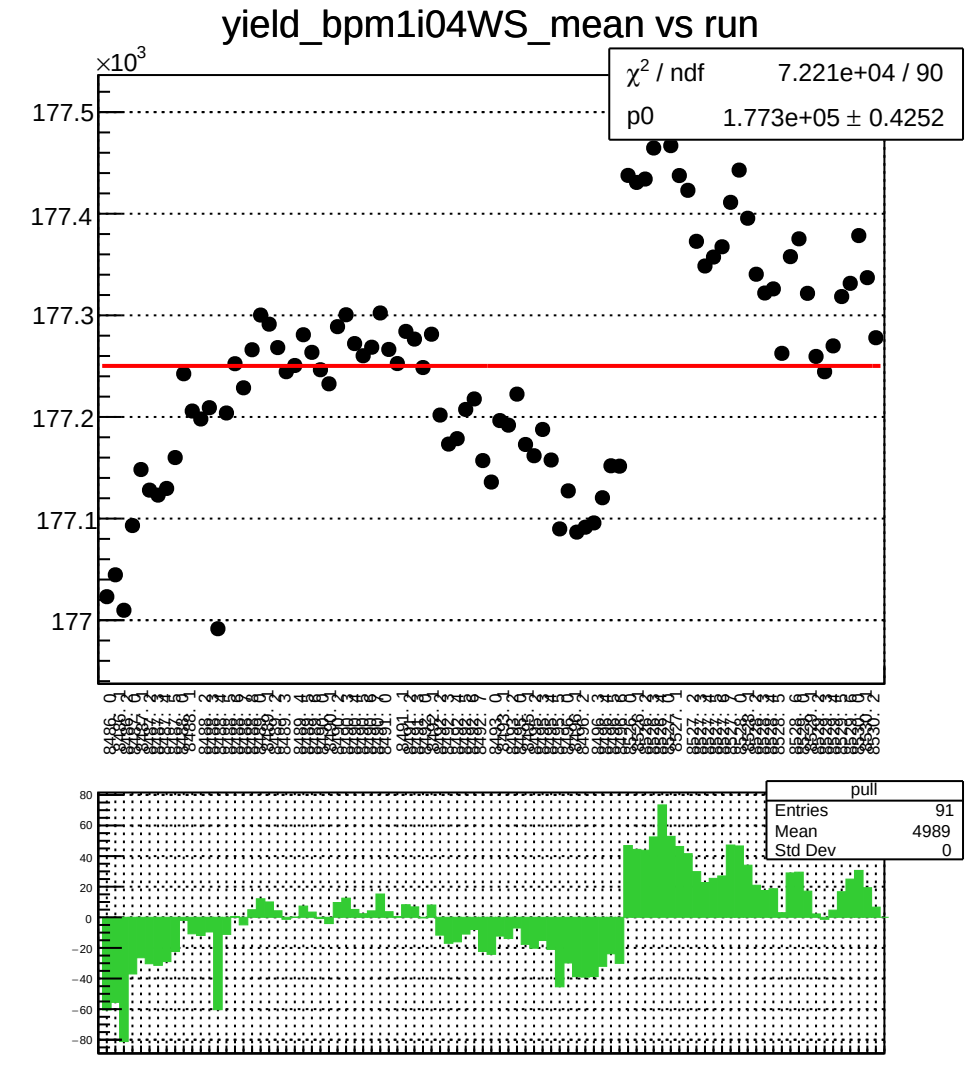

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 3.043e+04 / 90
p0 1.366e+05 ± 0.37
136.7
136.6
136.5
136.4
136.3
pull
Entries 91
Mean −604.1
Std Dev 0
20
0
−20
−40
−60
−80
pull1D
Entries 91
Mean 1.005
Std Dev 4.579
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

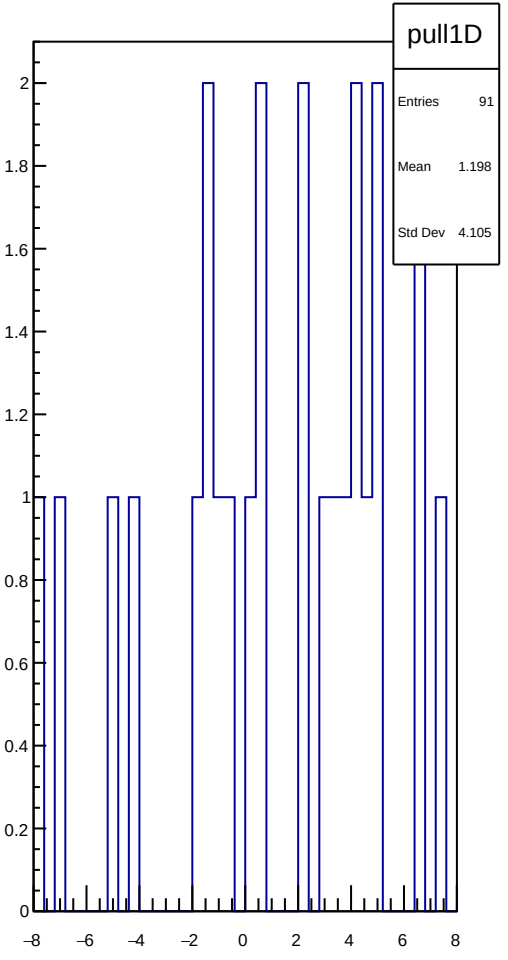

yield_bpm0i07WS_rms vs run
χ² / ndf 3827 / 90
p0 345.6 ± 0.2616
400
380
360
340
320
300

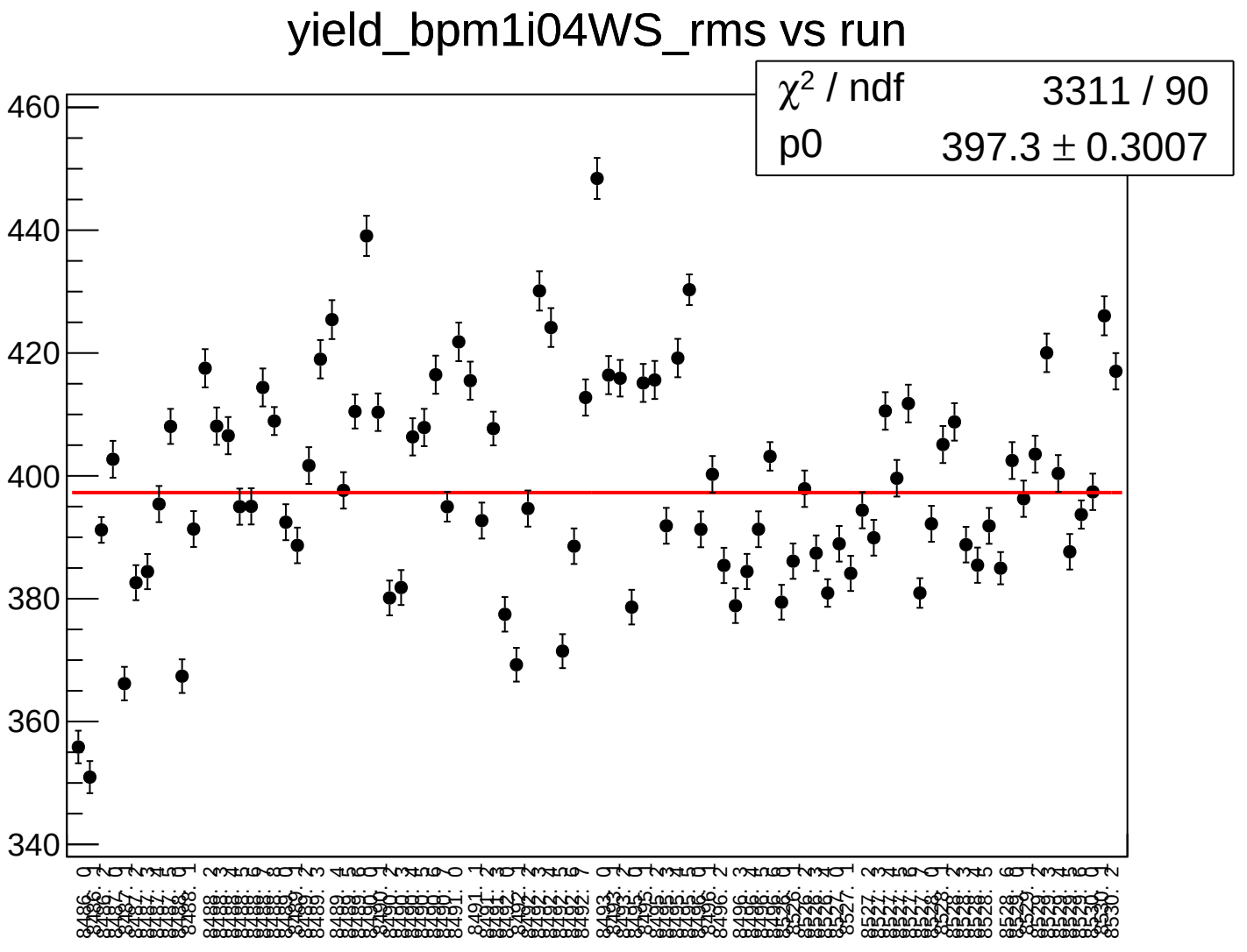

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 3.268e+05 / 90
p0 1.752e+05 ± 0.3924
175.6
175.5
175.4
175.3
175.2
175.1
175
174.9
174.8
pull
Entries 91
Mean −4122
Std Dev 0
100
50
0
−50
−100

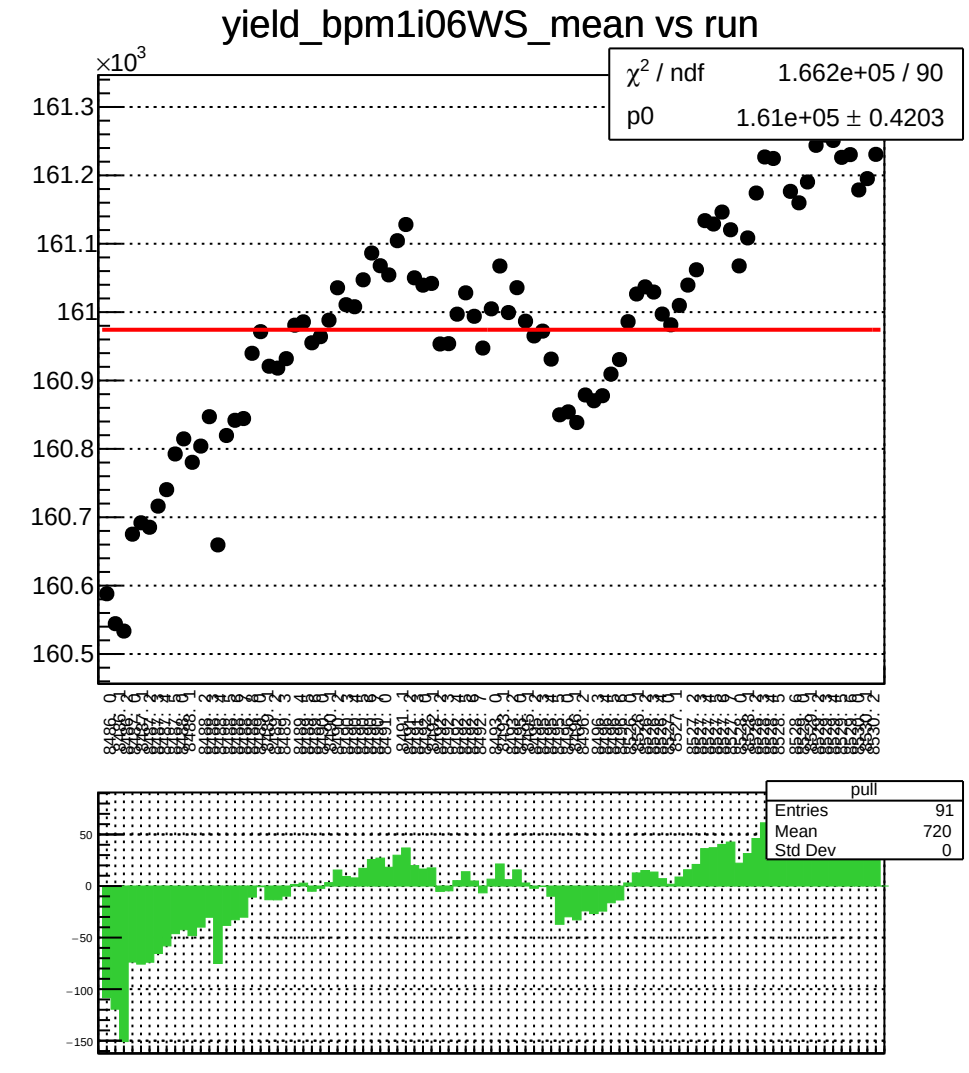

pull1D
Entries 91
Mean 5.367
Std Dev 2.153
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

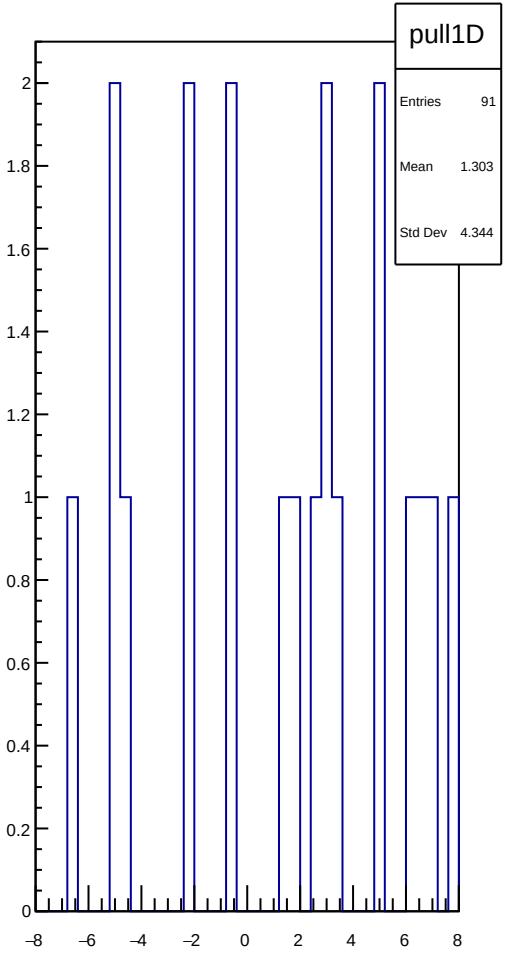

yield_bpm1i02WS_rms vs run
χ² / ndf 3469 / 90
p0 366.6 ± 0.2775
400
380
360
340
320

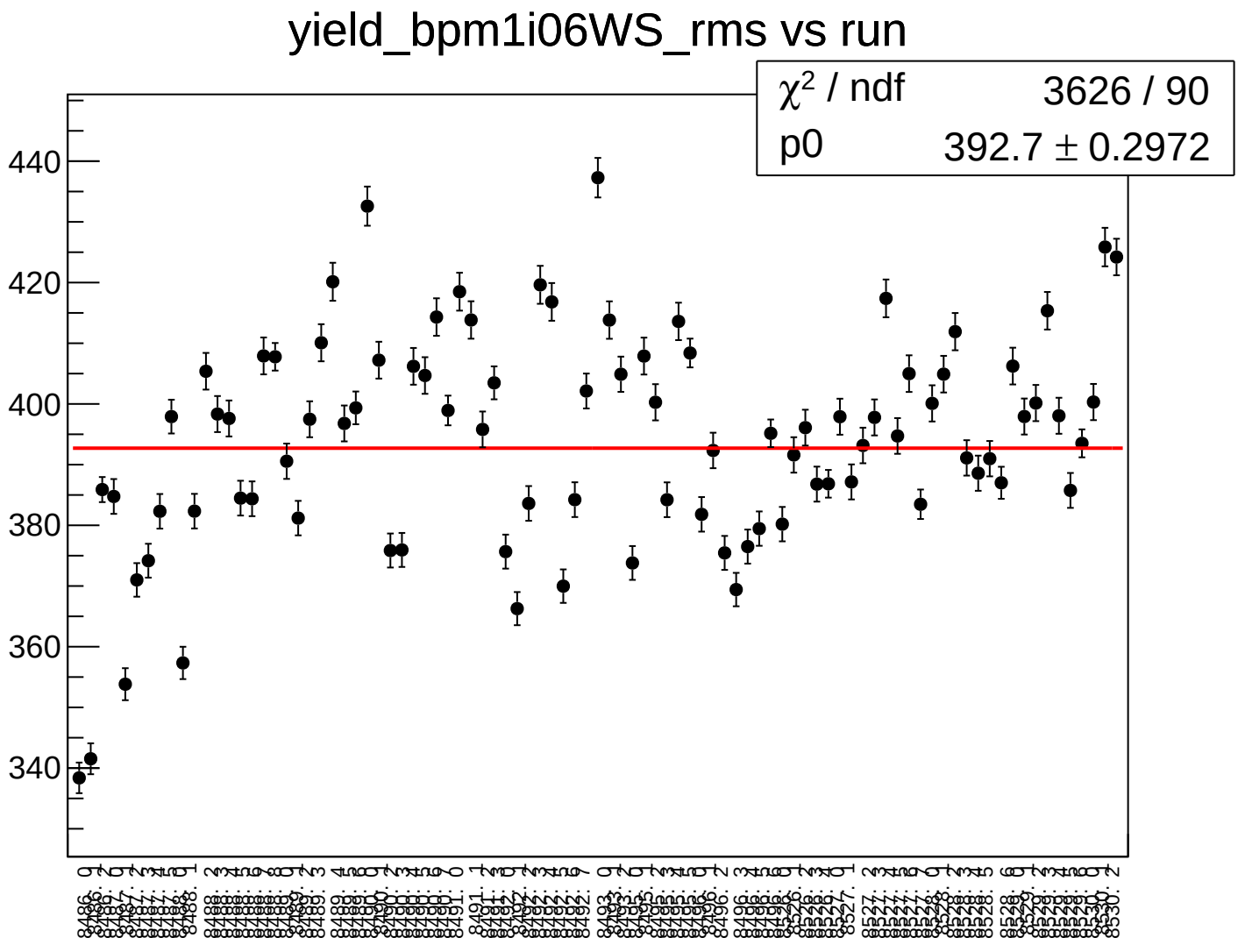

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 7.221e+04 / 90
p0 1.773e+05 ± 0.4252
177.5
177.4
177.3
177.2
177.1
177
pull
Entries 91
Mean 4989
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

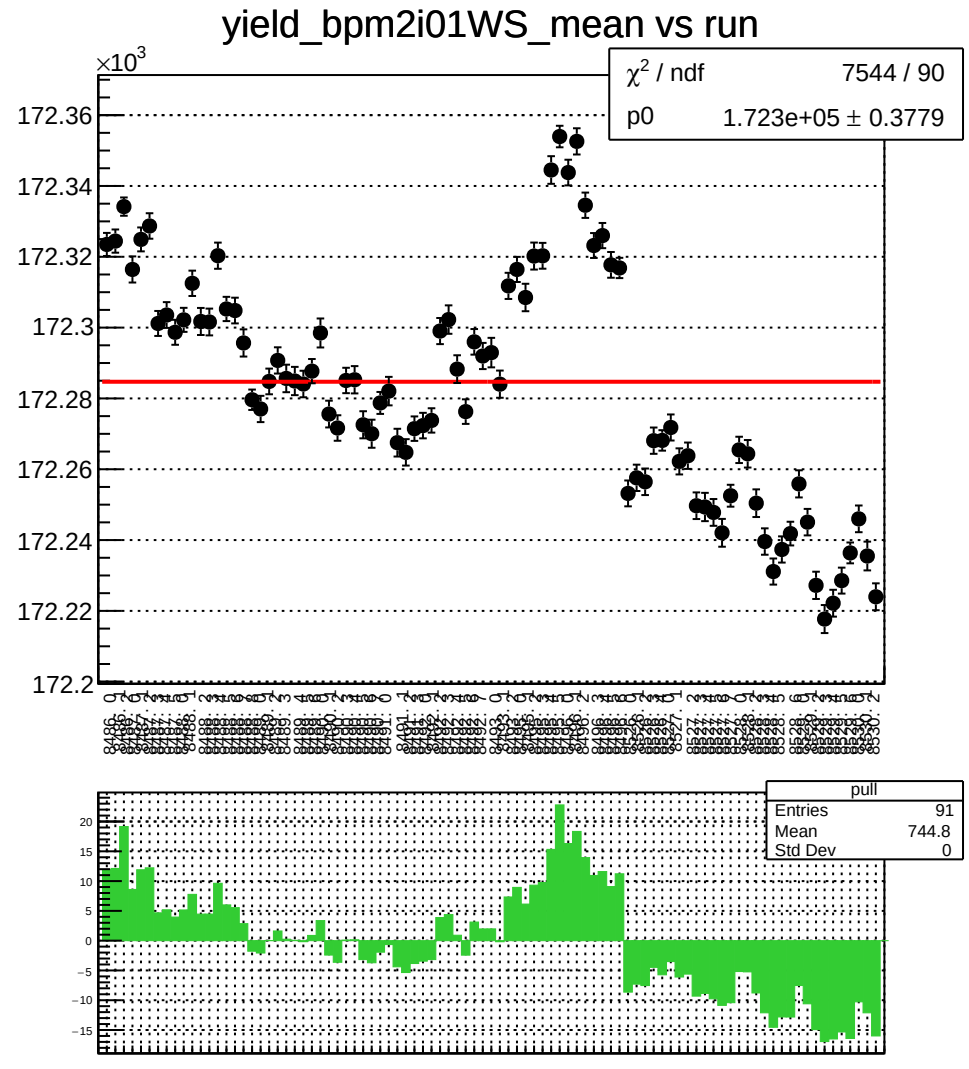

pull1D
Entries 91
Mean 1.198
Std Dev 4.105
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

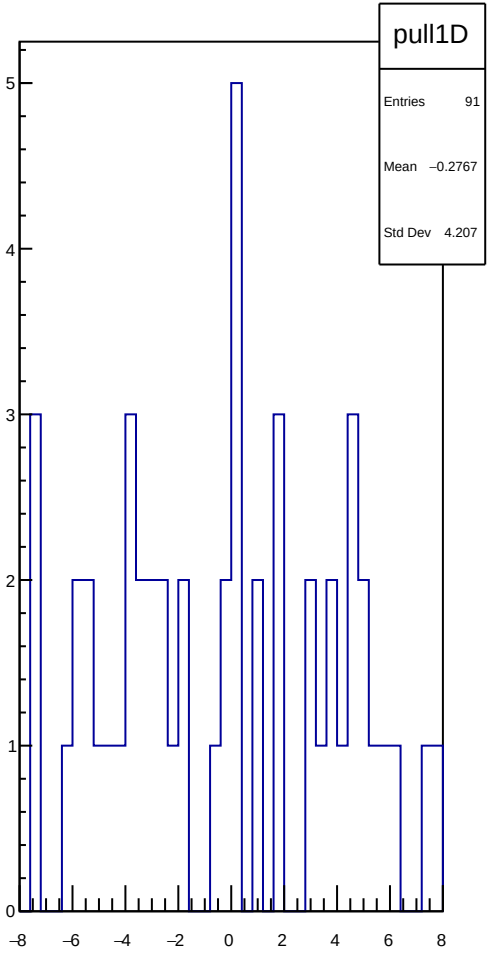

yield_bpm1i04WS_rms vs run
χ² / ndf 3311 / 90
p0 397.3 ± 0.3007
460
440
420
400
380
360
340

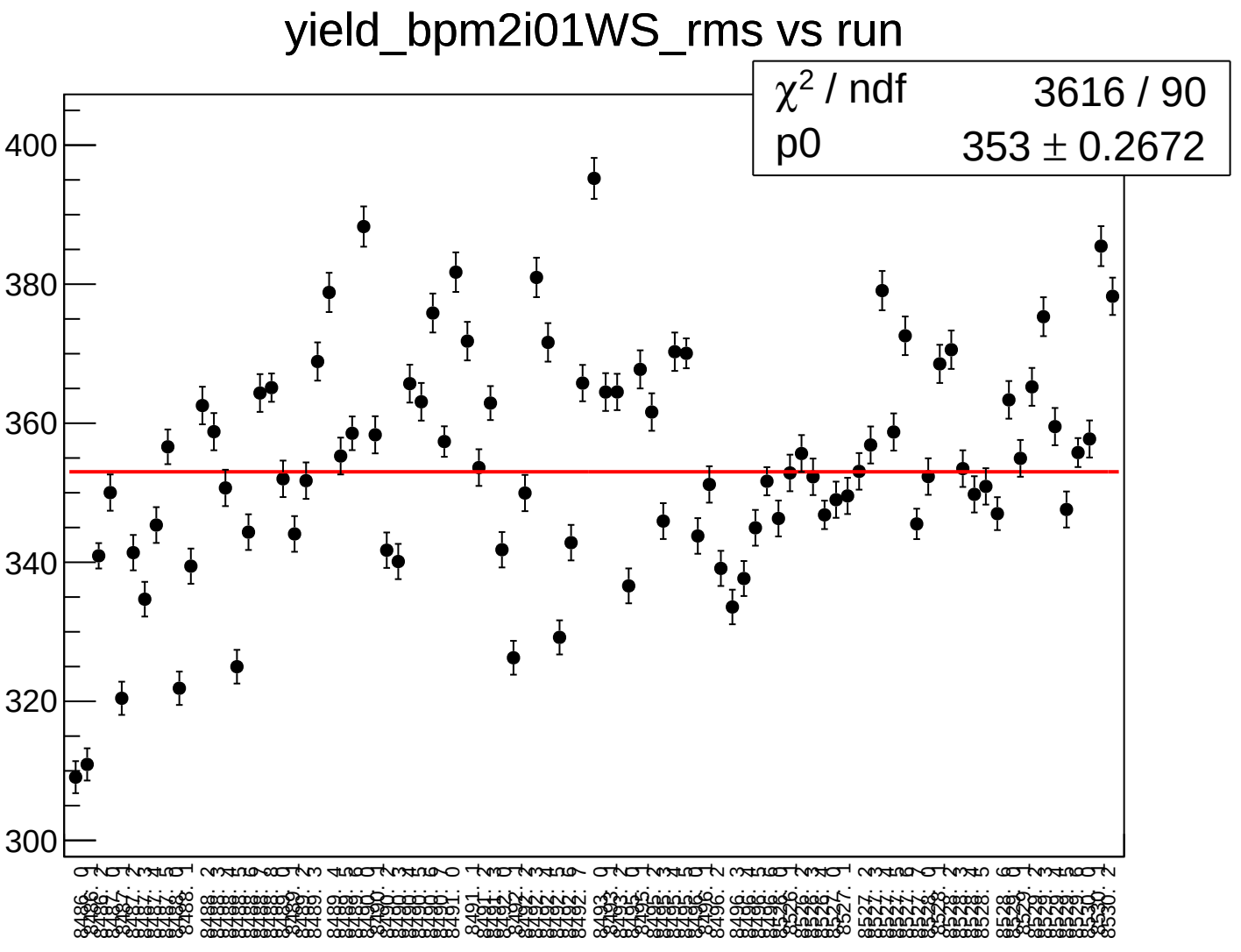

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 1.662e+05 / 90
p0 1.61e+05 ± 0.4203
161.3
161.2
161.1
161
160.9
160.8
160.7
160.6
160.5
pull
Entries 91
Mean 720
Std Dev 0
50
0
−50
−100
−150

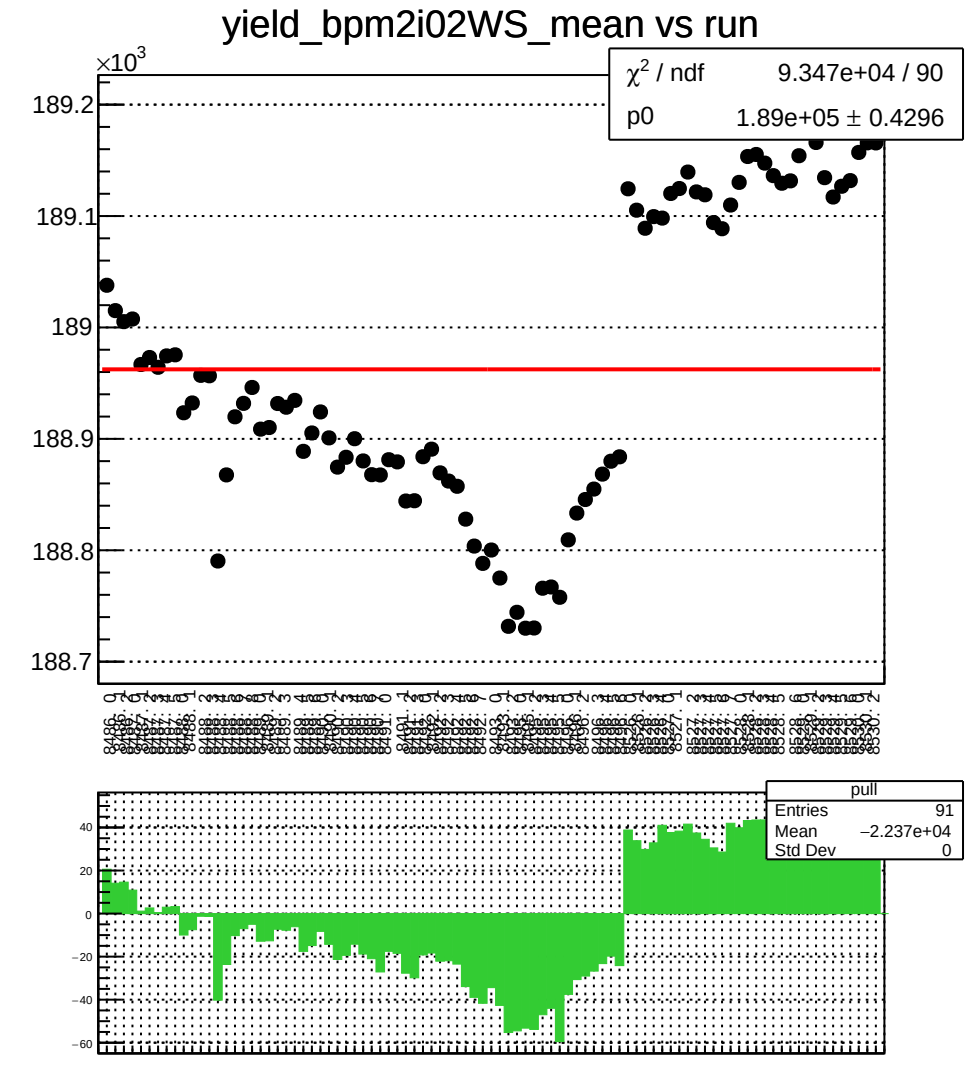

pull1D
Entries 91
Mean 1.303
Std Dev 4.344
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

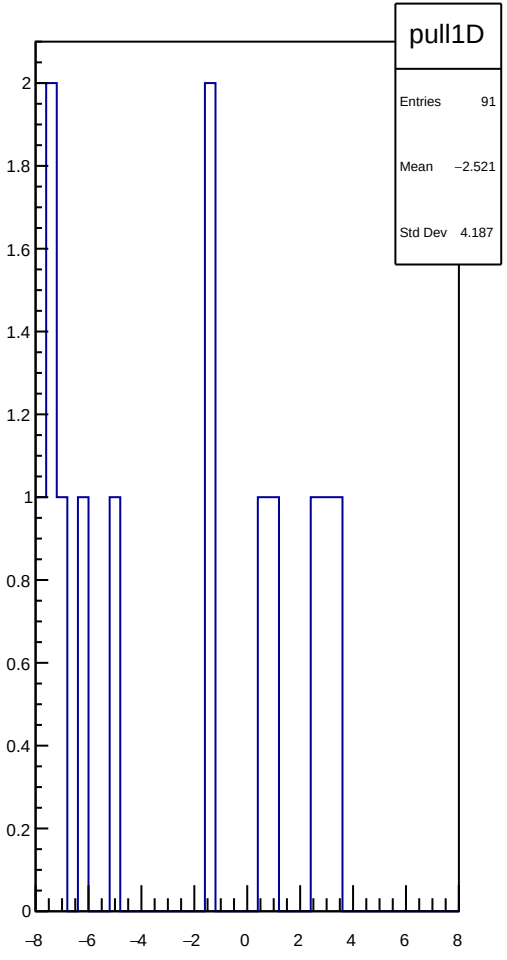

yield_bpm1i06WS_rms vs run
χ² / ndf 3626 / 90
p0 392.7 ± 0.2972
440
420
400
380
360
340

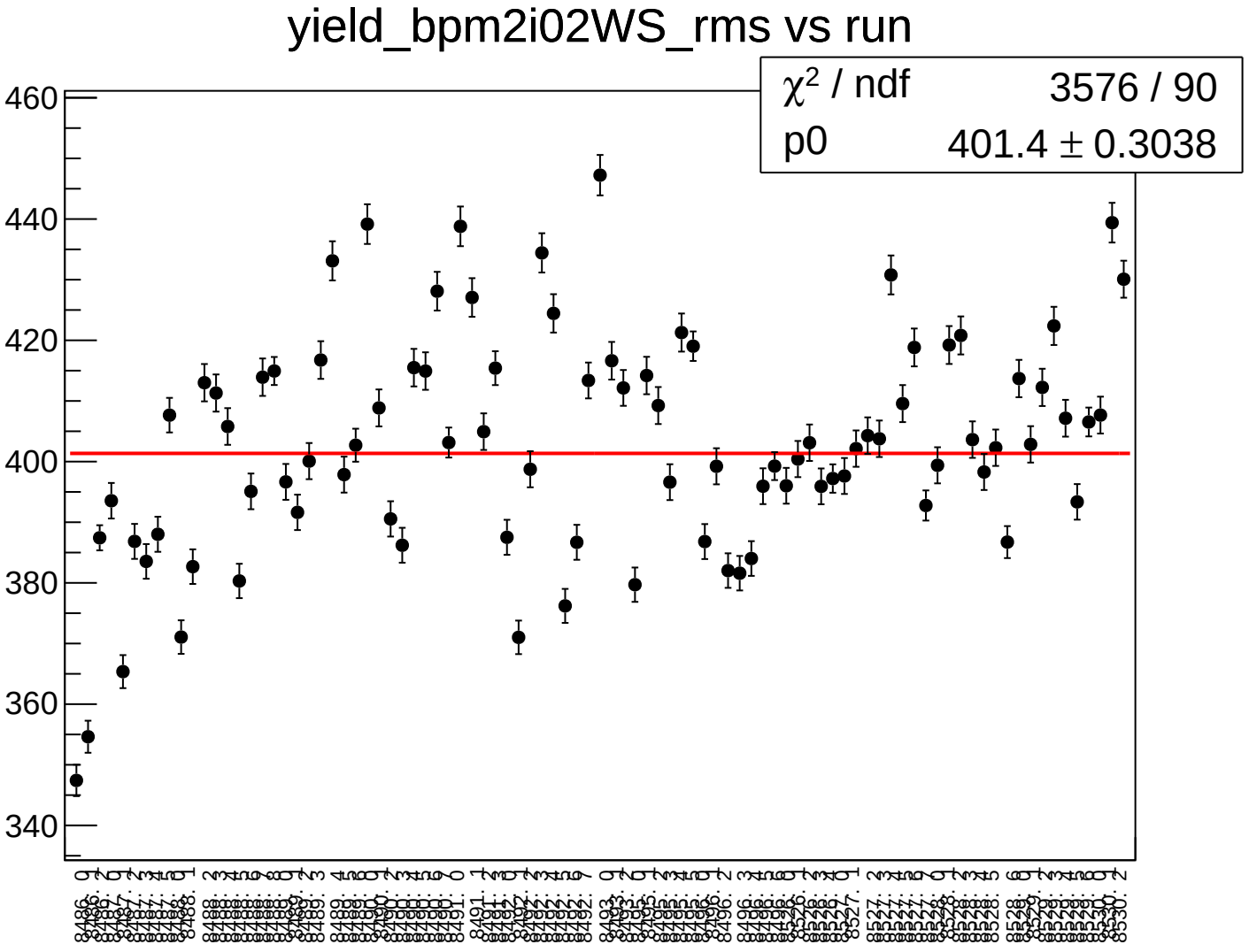

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 7544 / 90
p0 1.723e+05 ± 0.3779
172.36
172.34
172.32
172.3
172.28
172.26
172.24
172.22
172.2
pull
Entries 91
Mean 744.8
Std Dev 0
20
15
10
5
0
−5
−10
−15

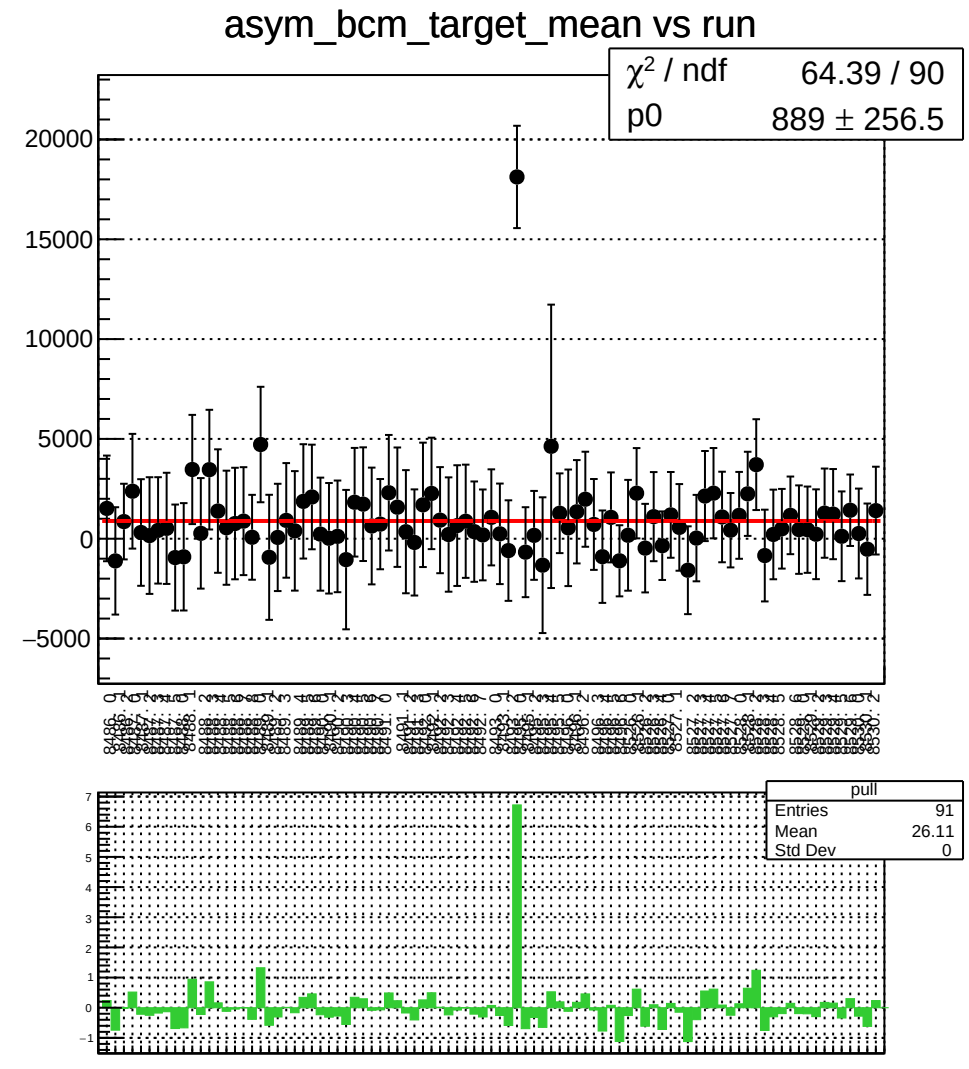

pull1D
Entries 91
Mean −0.2767
Std Dev 4.207
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

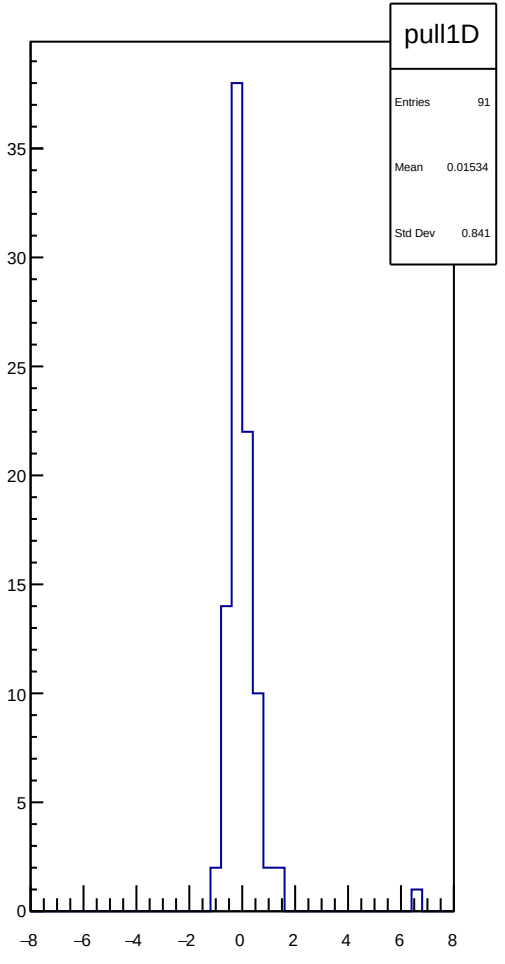

yield_bpm2i01WS_rms vs run
χ² / ndf 3616 / 90
p0 353 ± 0.2672
400
380
360
340
320
300

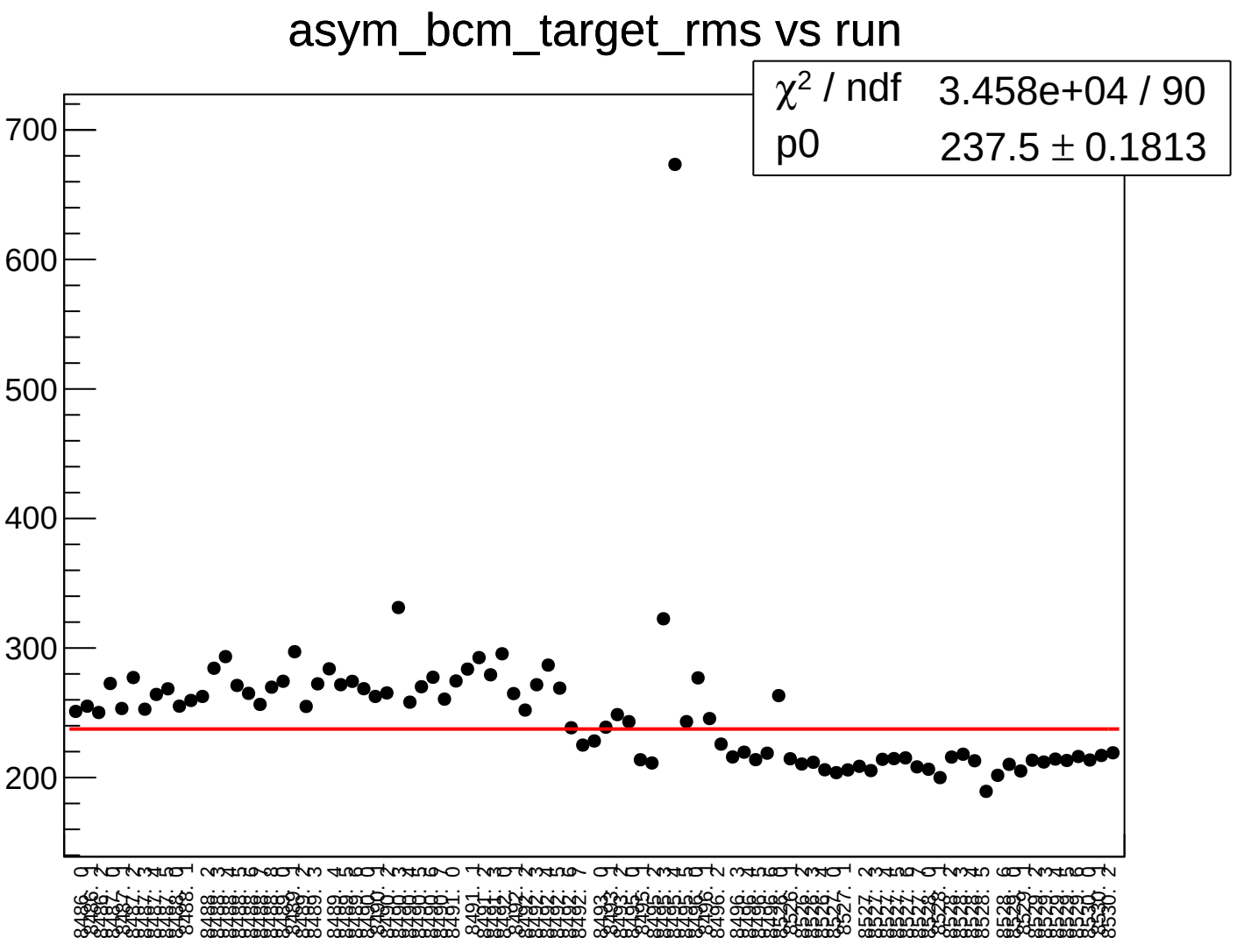

yield_bpm2i02WS_mean vs run
×10^3
χ^2 / ndf 9.347e+04 / 90
p0 1.89e+05 ± 0.4296
189.2
189.1
189
188.9
188.8
188.7
pull
Entries 91
Mean −2.237e+04
Std Dev 0
40
20
0
−20
−40
−60

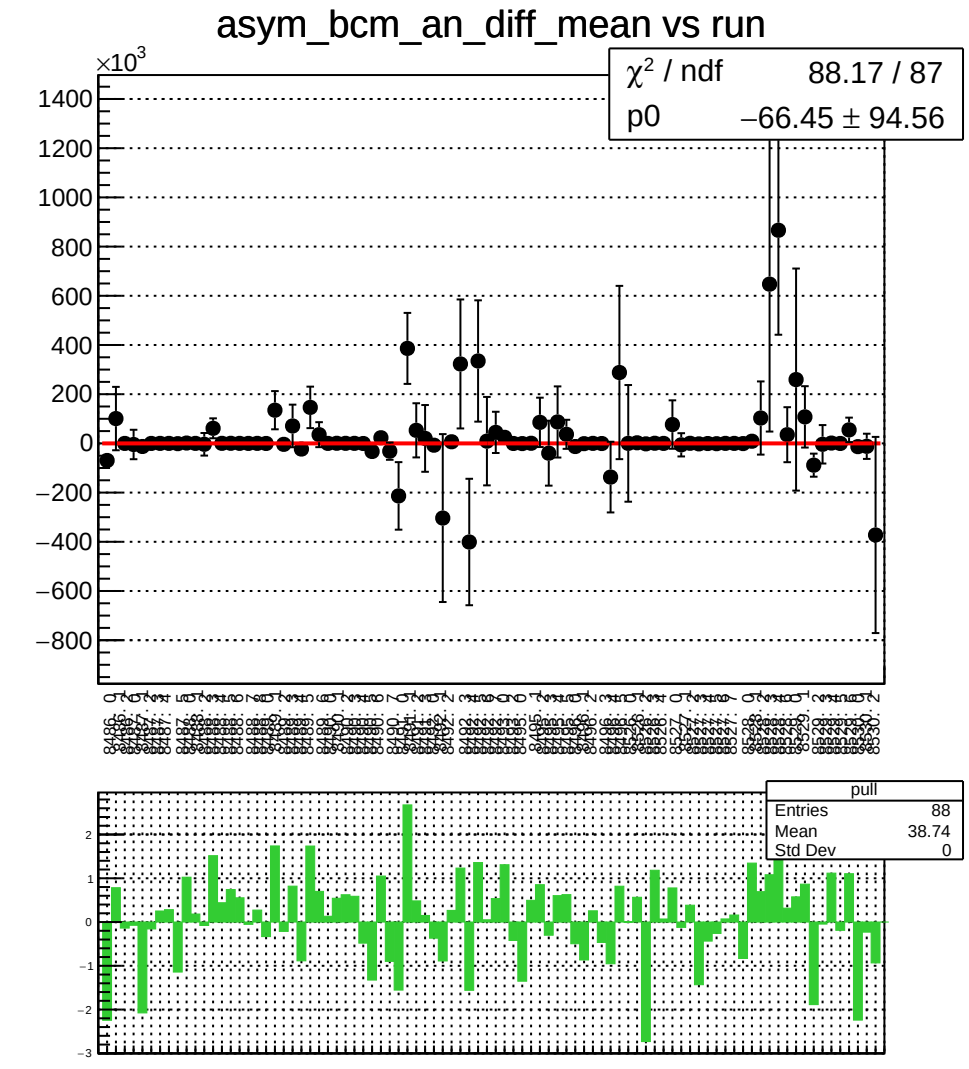

pull1D
Entries 91
Mean −2.521
Std Dev 4.187
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

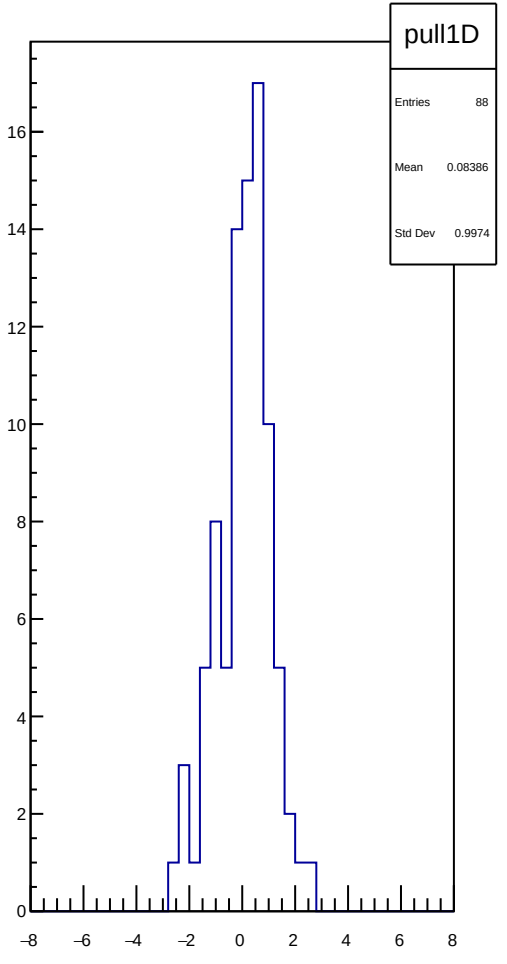

yield_bpm2i02WS_rms vs run
χ² / ndf 3576 / 90
p0 401.4 ± 0.3038
460
440
420
400
380
360
340

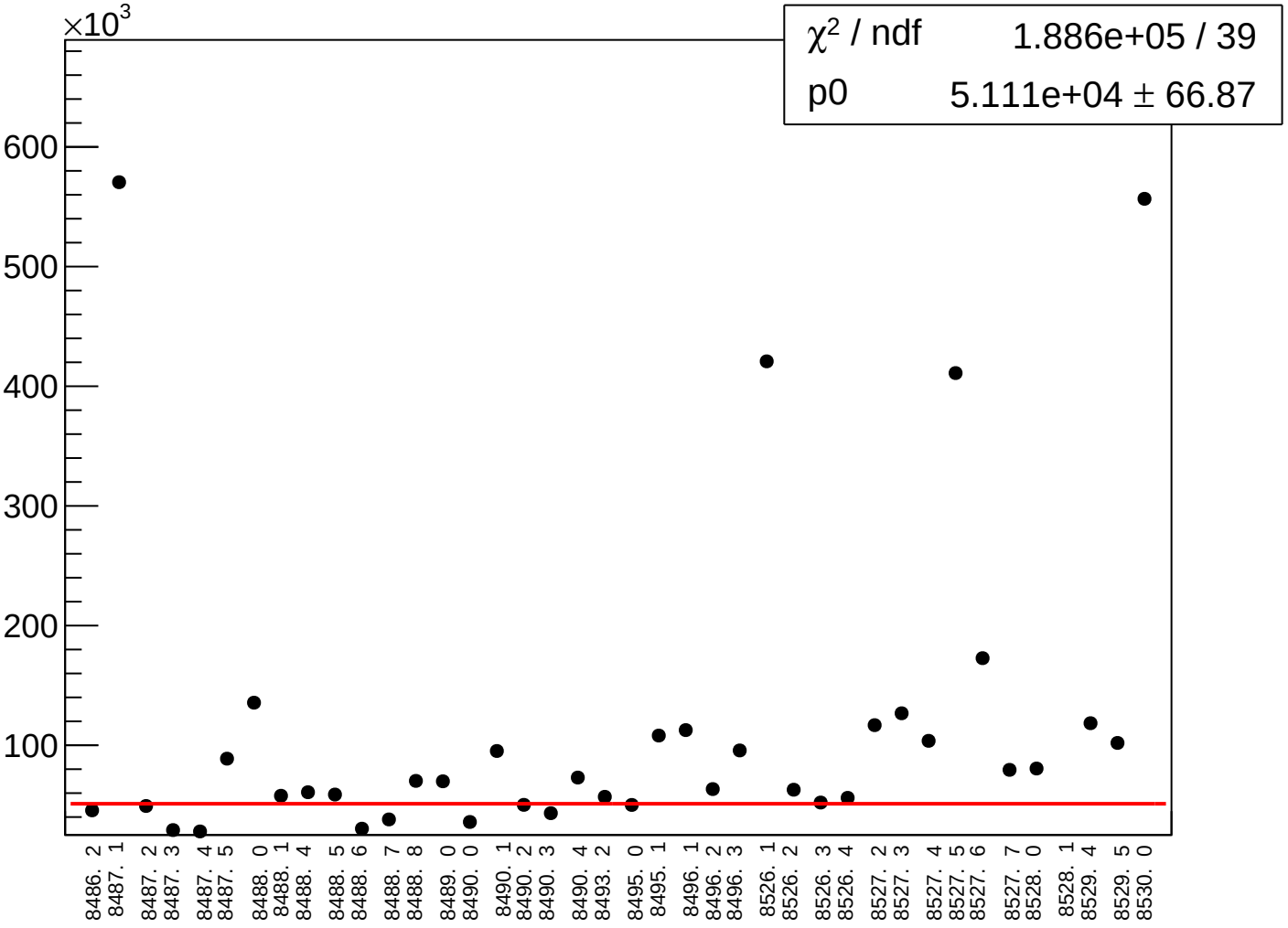

asym_bcm_target_mean vs run
χ² / ndf 64.39 / 90
p0 889 ± 256.5
20000
15000
10000
5000
0
−5000
pull
Entries 91
Mean 26.11
Std Dev 0
7
6
5
4
3
2
1
0
−1

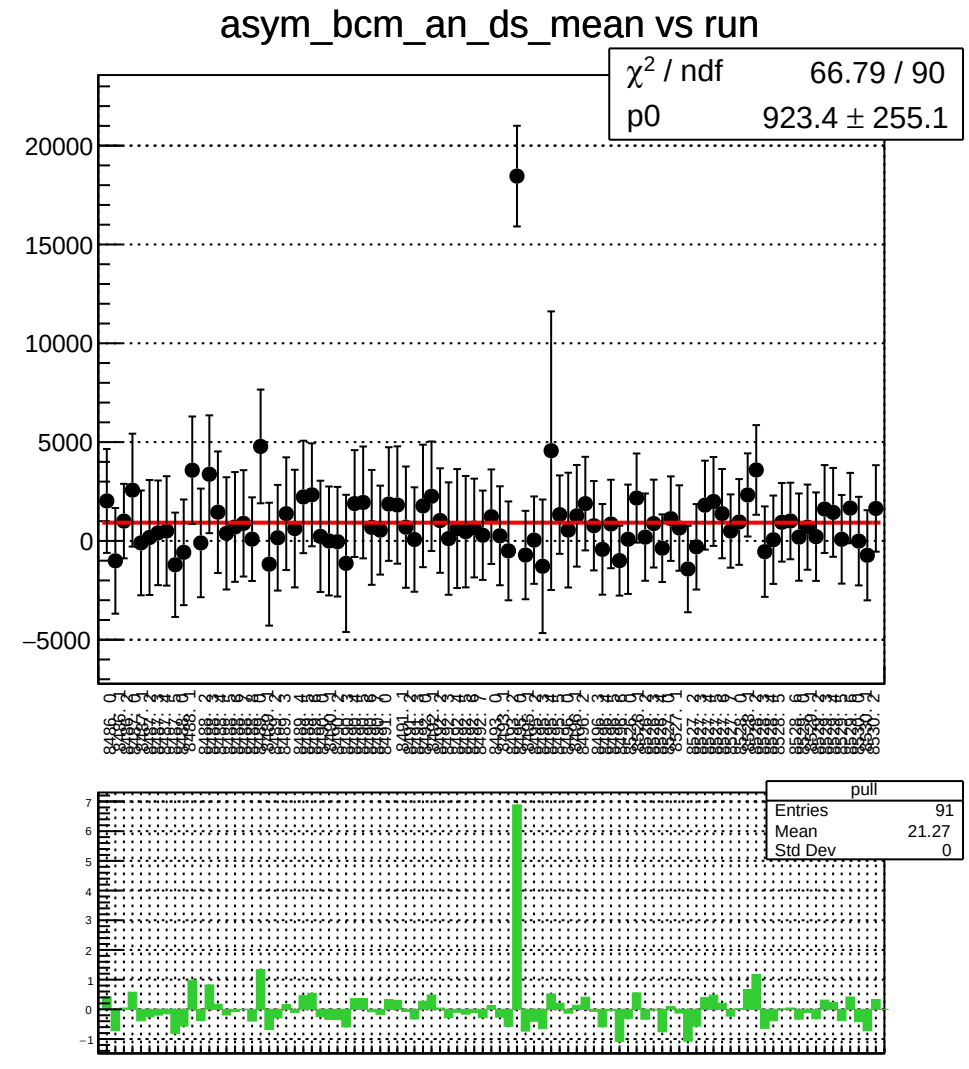

pull1D
Entries 91
Mean 0.01534
Std Dev 0.841
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

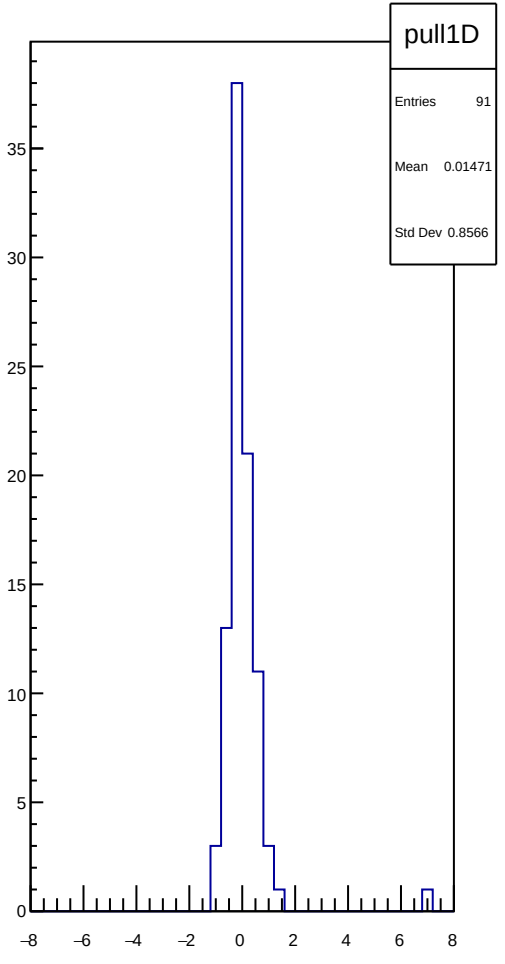

asym_bcm_target_rms vs run
χ^2 / ndf 3.458e+04 / 90
p0 237.5 ± 0.1813
700
600
500
400
300
200

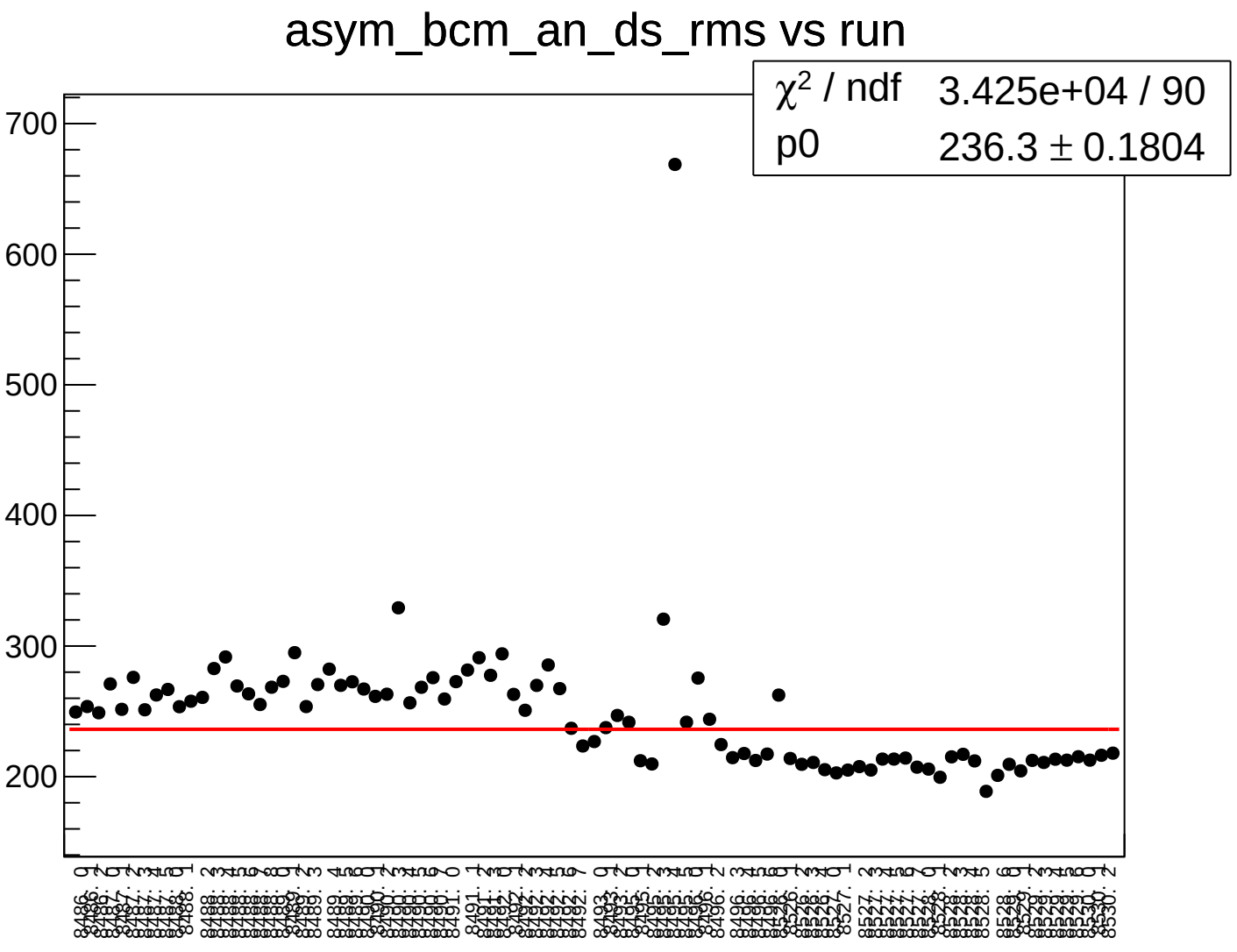

asym_bcm_an_diff_mean vs run
×10^3
χ² / ndf 88.17 / 87
p0 −66.45 ± 94.56
pull
Entries 88
Mean 38.74
Std Dev 0

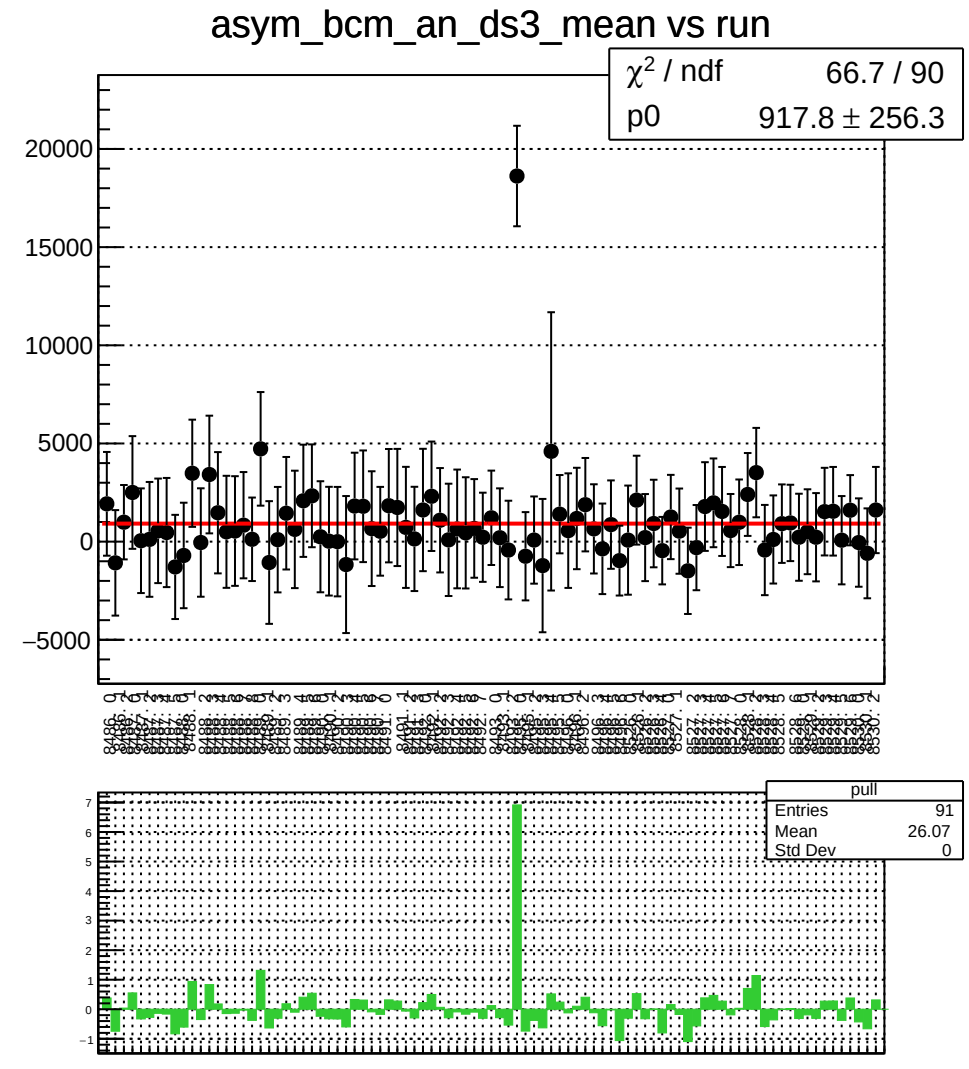

pull1D
Entries 88
Mean 0.08386
Std Dev 0.9974

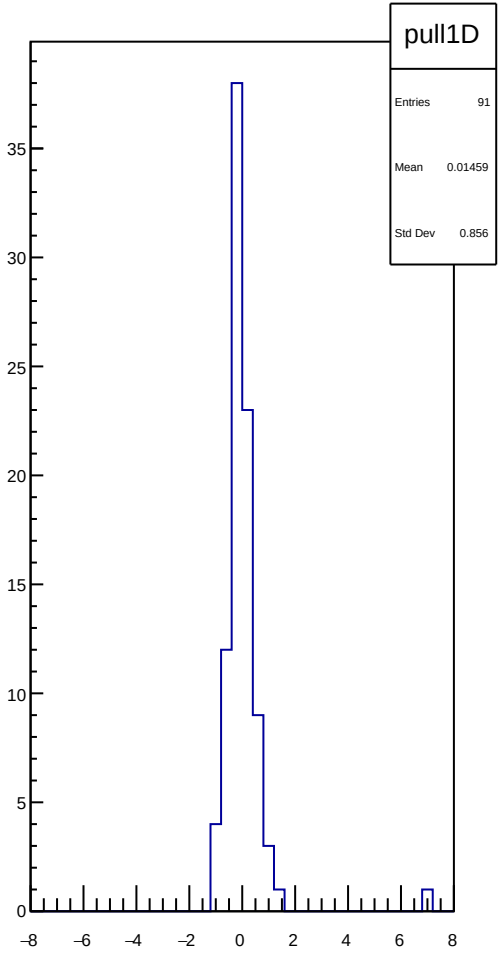

asym_bcm_an_diff_rms vs run
×10^3
χ² / ndf 1.886e+05 / 39
p0 5.111e+04 ± 66.87
600
500
400
300
200
100
8486. 2
8487. 1
8487. 2
8487. 3
8487. 4
8487. 5
8488. 0
8488. 1
8488. 4
8488. 5
8488. 6
8488. 7
8488. 8
8489. 0
8490. 0
8490. 1
8490. 2
8490. 3
8490. 4
8493. 2
8495. 0
8495. 1
8496. 1
8496. 2
8496. 3
8526. 1
8526. 2
8526. 3
8526. 4
8527. 2
8527. 3
8527. 4
8527. 5
8527. 6
8527. 7
8528. 0
8528. 1
8529. 4
8529. 5
8530. 0

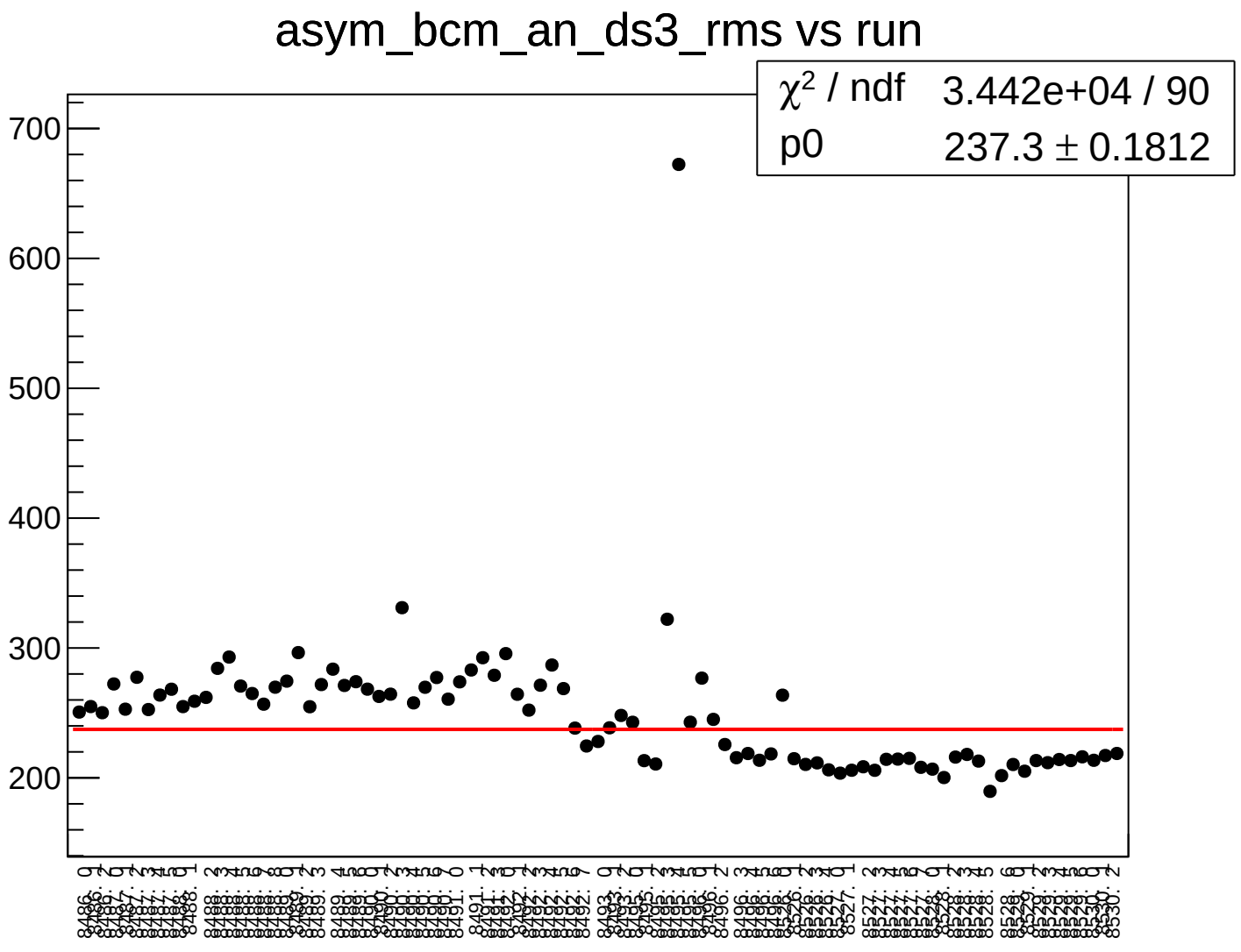

asym_bcm_an_ds_mean vs run
χ² / ndf 66.79 / 90
p0 923.4 ± 255.1
20000
15000
10000
5000
0
−5000
pull
Entries 91
Mean 21.27
Std Dev 0

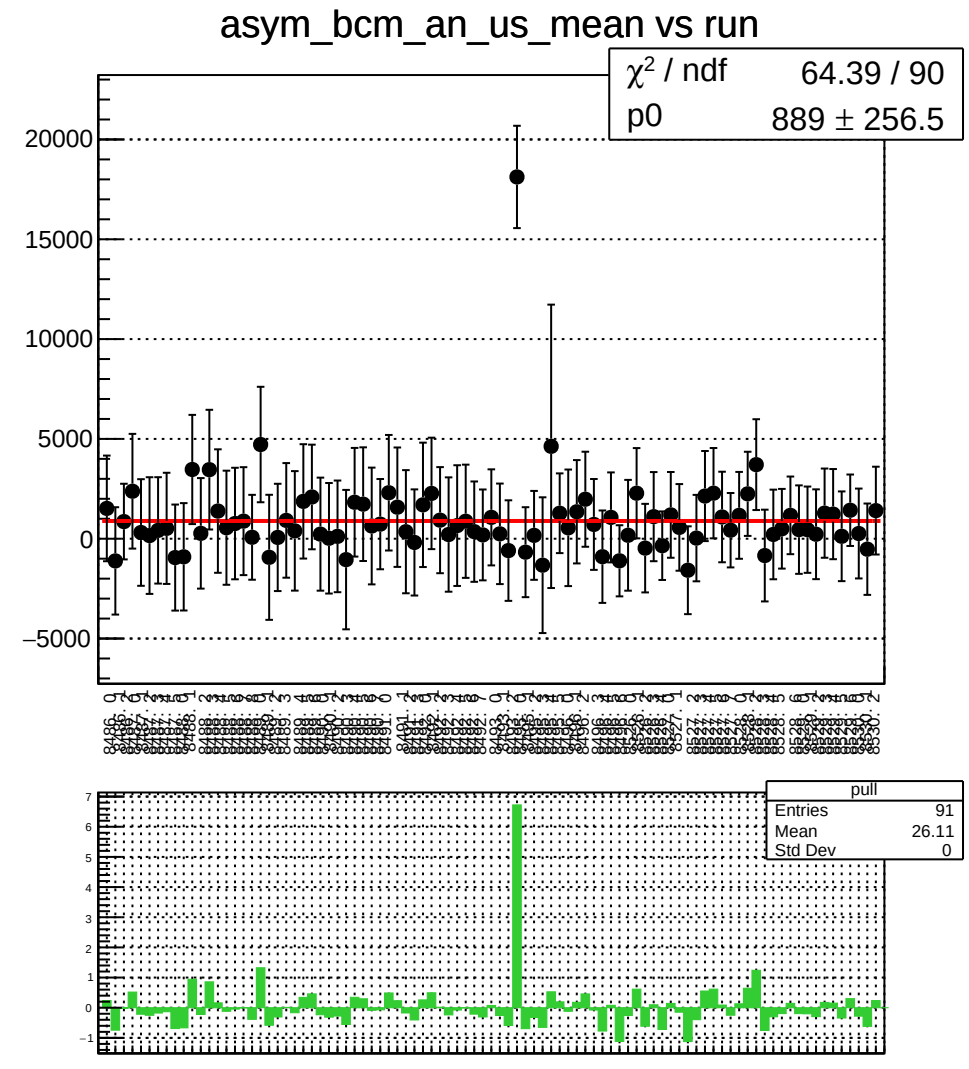

pull1D
Entries 91
Mean 0.01471
Std Dev 0.8566
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

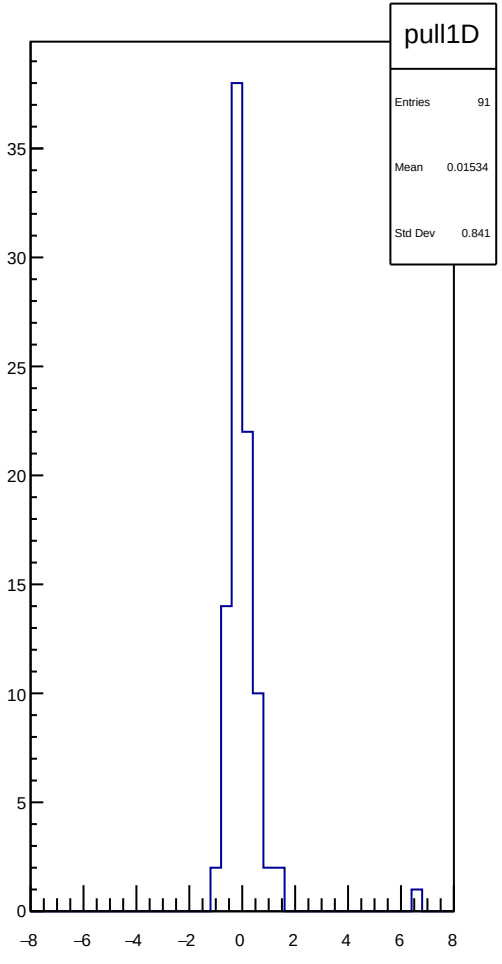

asym_bcm_an_ds_rms vs run
χ² / ndf 3.425e+04 / 90
p0 236.3 ± 0.1804
700
600
500
400
300
200

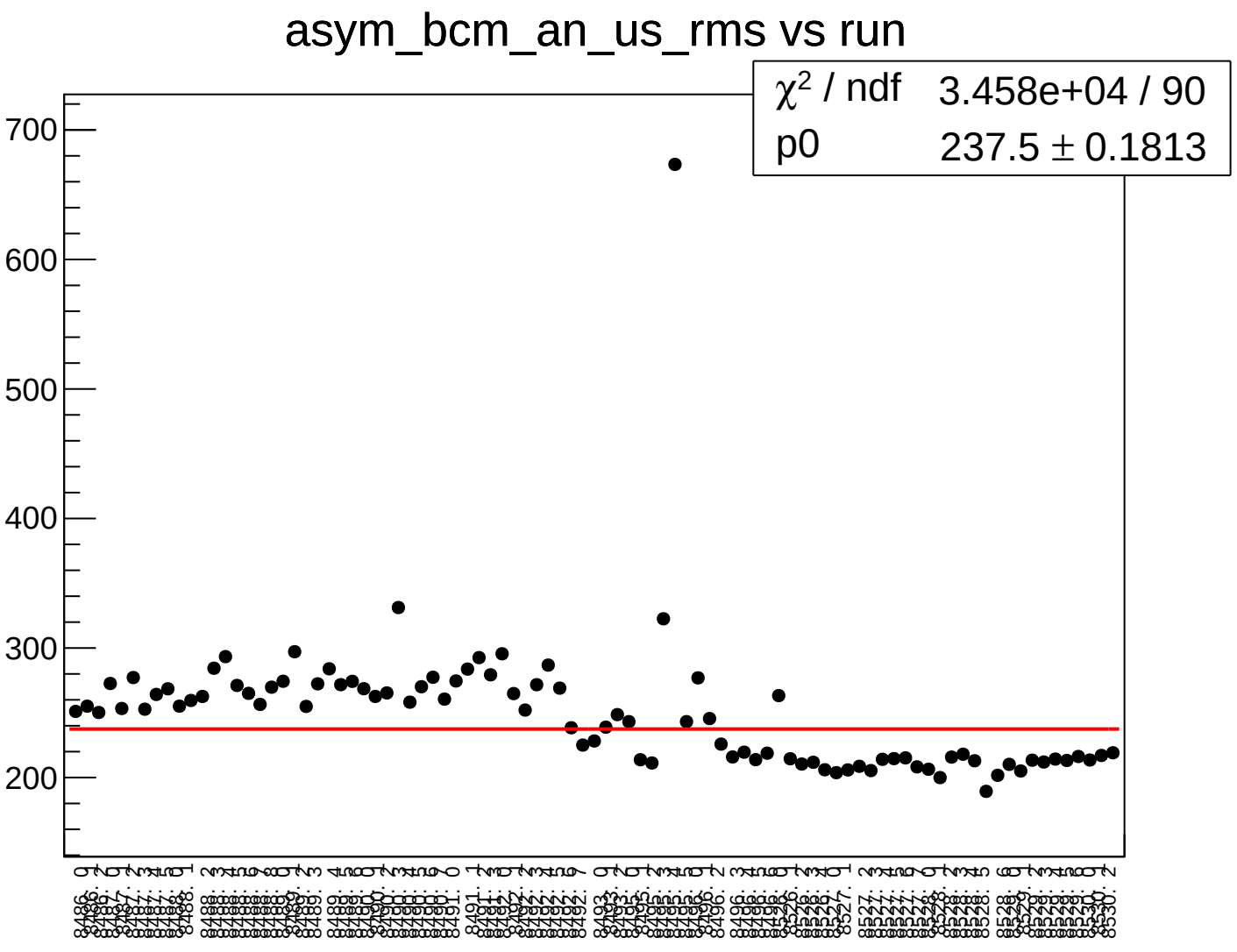

asym_bcm_an_ds3_mean vs run
χ^2 / ndf 66.7 / 90
p0 917.8 ± 256.3
20000
15000
10000
5000
0
−5000
pull
Entries 91
Mean 26.07
Std Dev 0

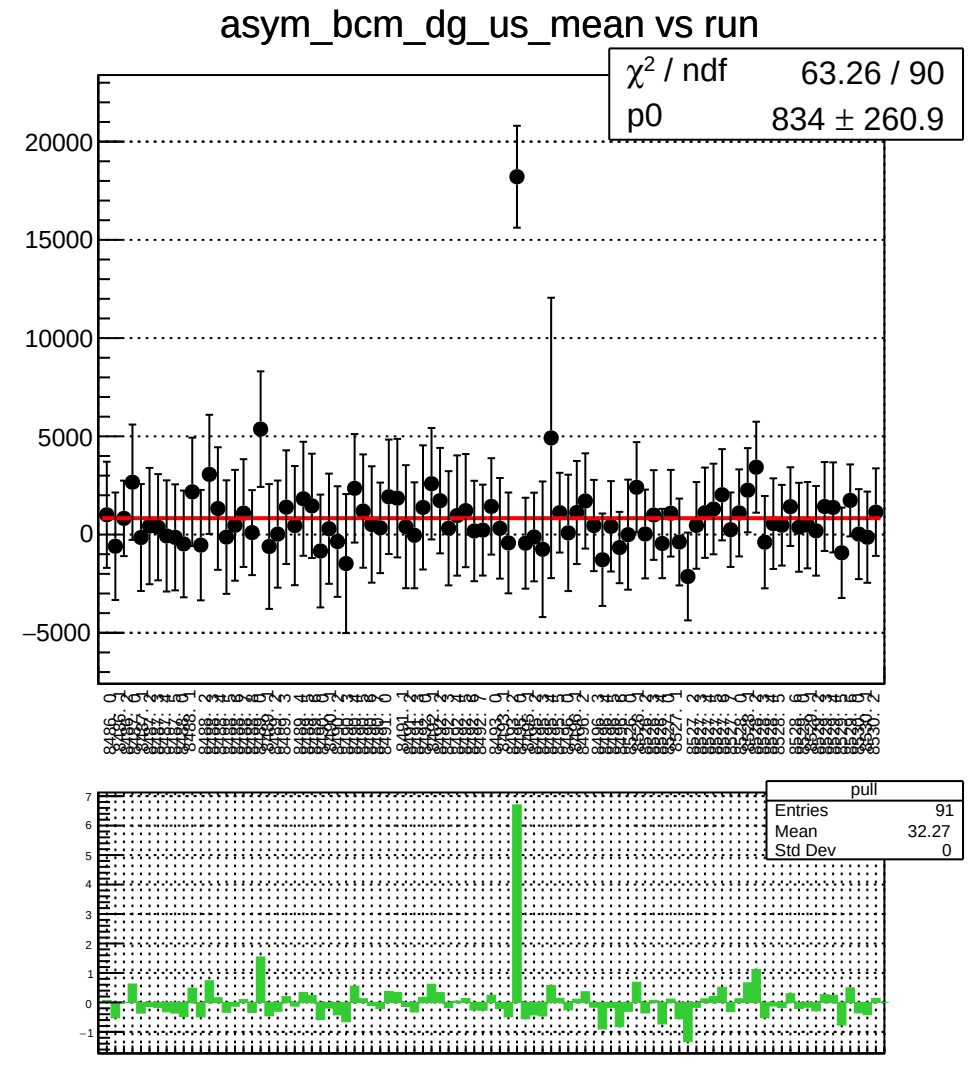

pull1D
Entries 91
Mean 0.01459
Std Dev 0.856
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

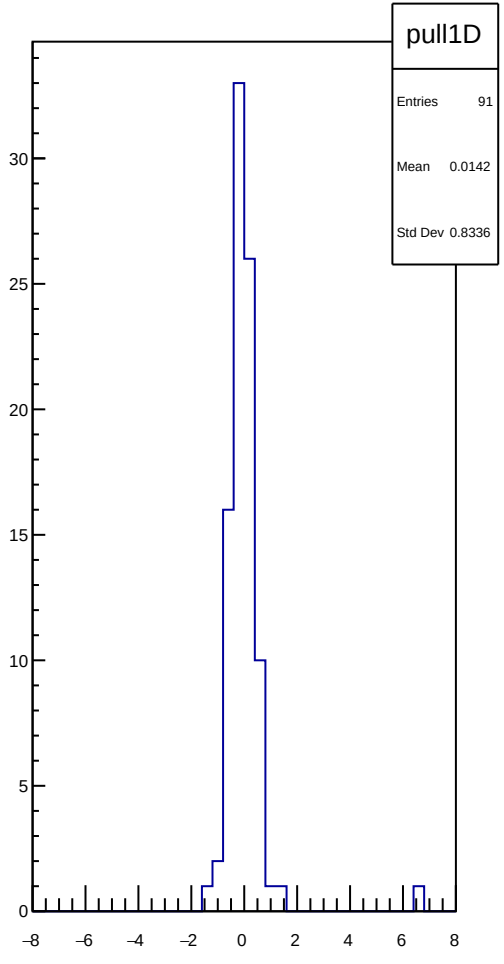

asym_bcm_an_ds3_rms vs run
χ^2 / ndf 3.442e+04 / 90
p0 237.3 ± 0.1812
700
600
500
400
300
200

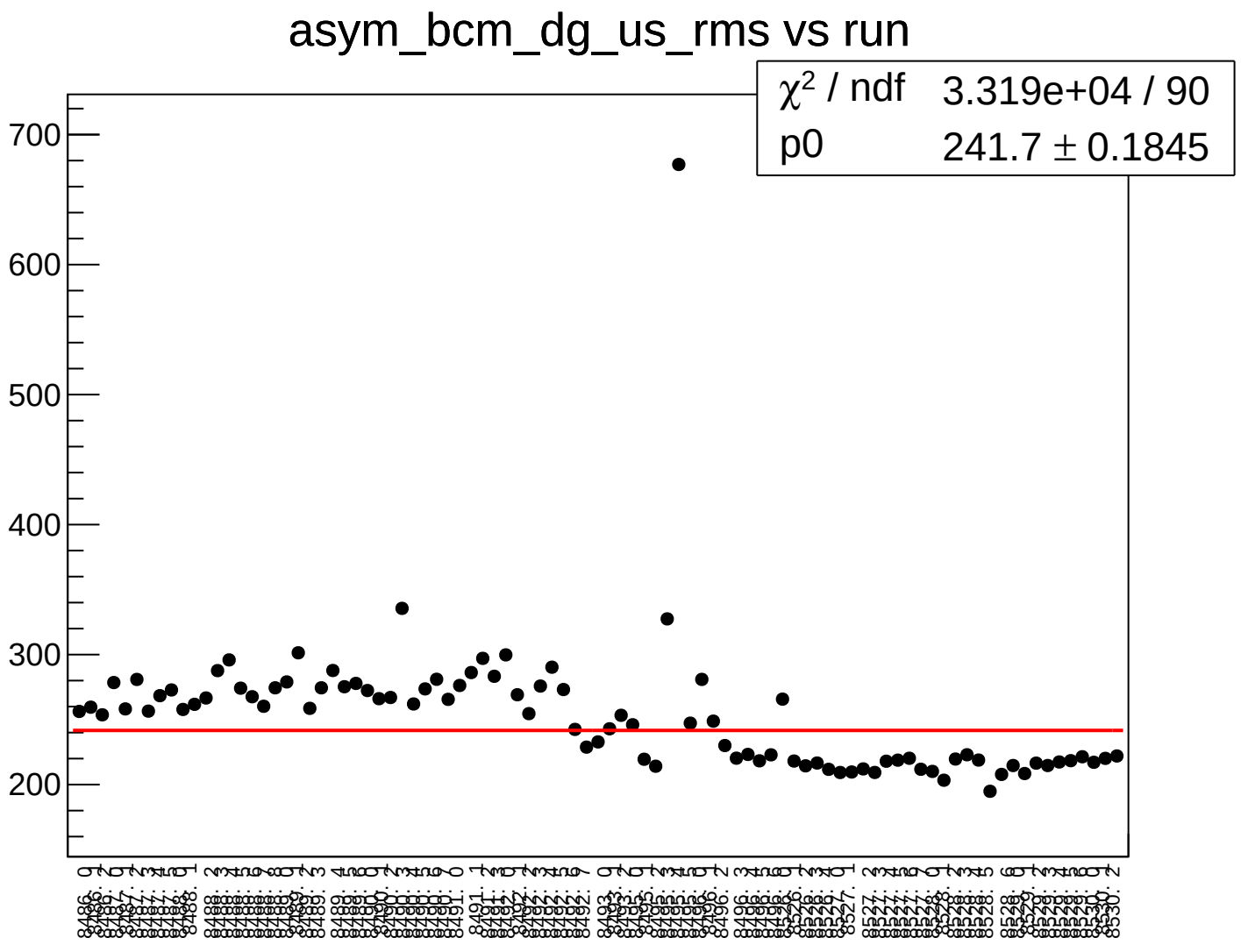

asym_bcm_an_us_mean vs run
χ² / ndf 64.39 / 90
p0 889 ± 256.5
20000
15000
10000
5000
0
−5000
pull
Entries 91
Mean 26.11
Std Dev 0
7
6
5
4
3
2
1
0
−1

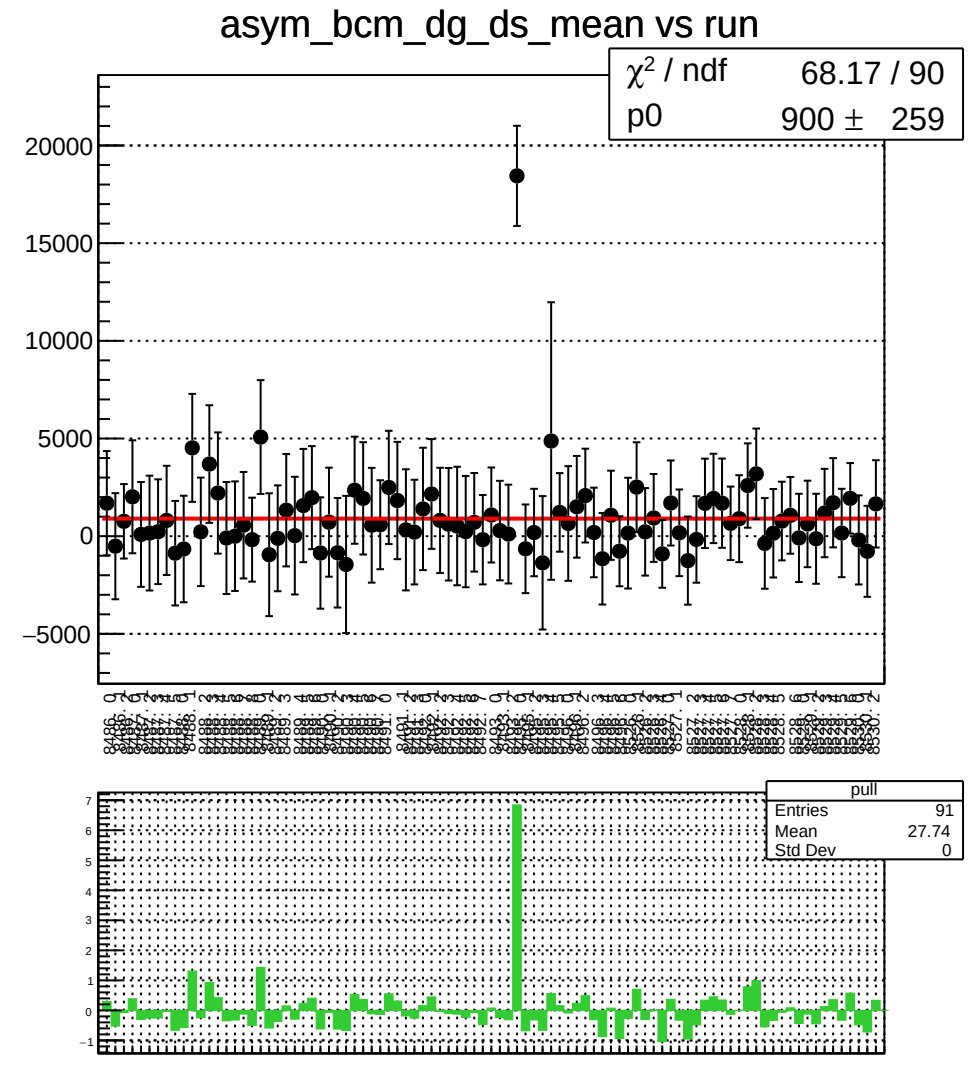

pull1D
Entries 91
Mean 0.01534
Std Dev 0.841
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

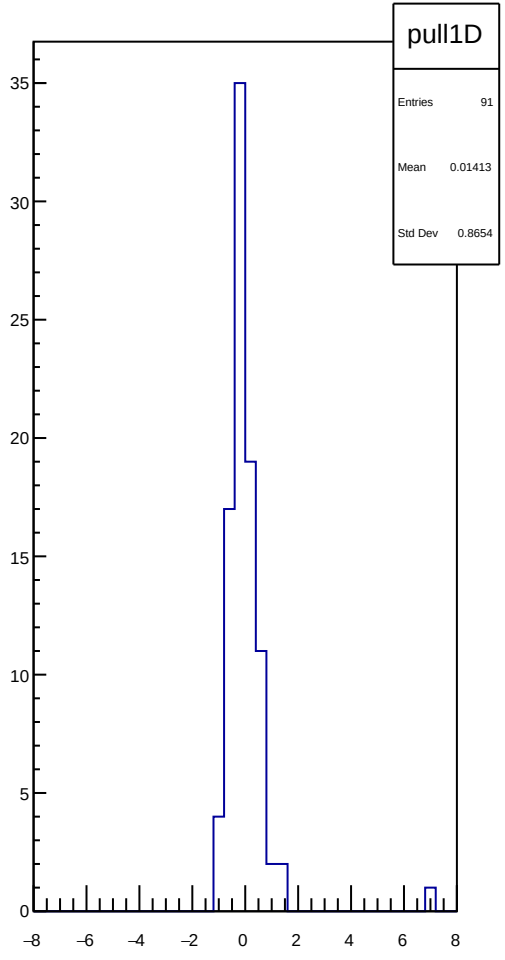

asym_bcm_an_us_rms vs run
χ² / ndf 3.458e+04 / 90
p0 237.5 ± 0.1813
700
600
500
400
300
200

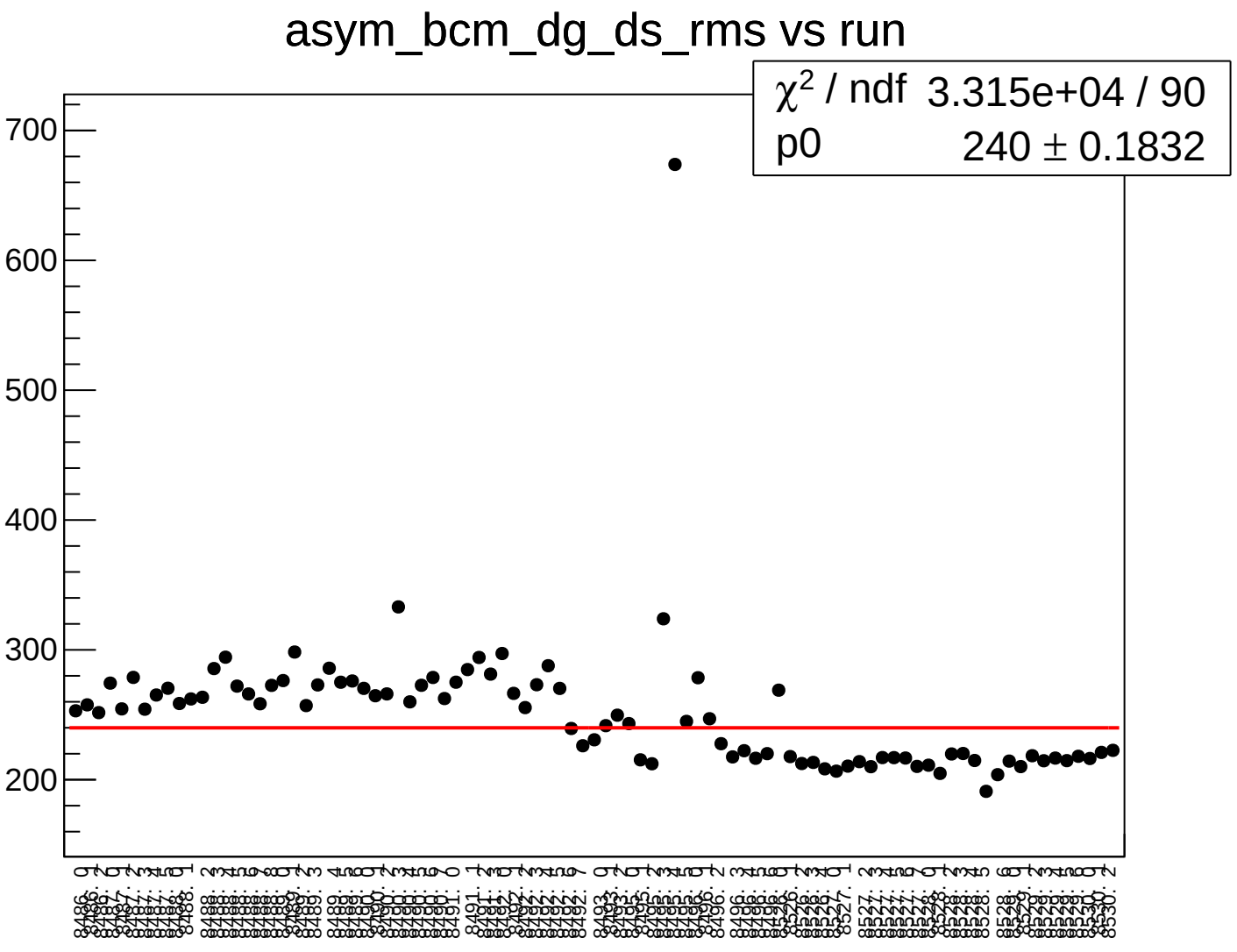

asym_bcm_dg_us_mean vs run
χ² / ndf 63.26 / 90
p0 834 ± 260.9
20000
15000
10000
5000
0
−5000
pull
Entries 91
Mean 32.27
Std Dev 0
7
6
5
4
3
2
1
0
−1

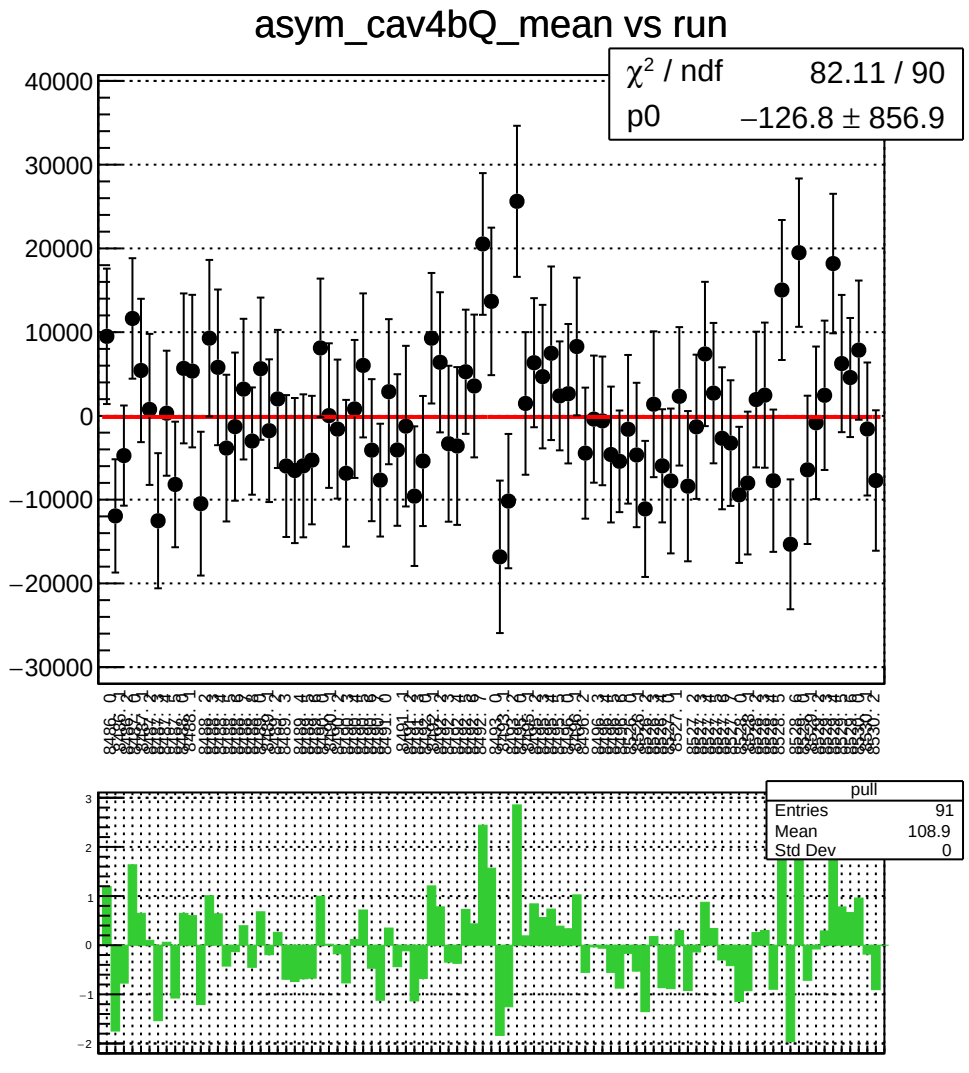

pull1D
Entries 91
Mean 0.0142
Std Dev 0.8336
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

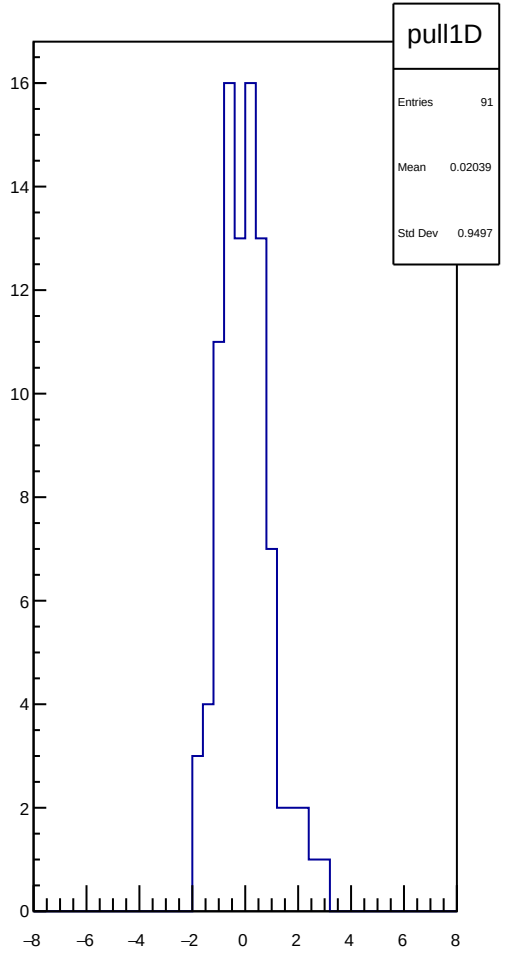

asym_bcm_dg_us_rms vs run
χ² / ndf 3.319e+04 / 90
p0 241.7 ± 0.1845
700
600
500
400
300
200

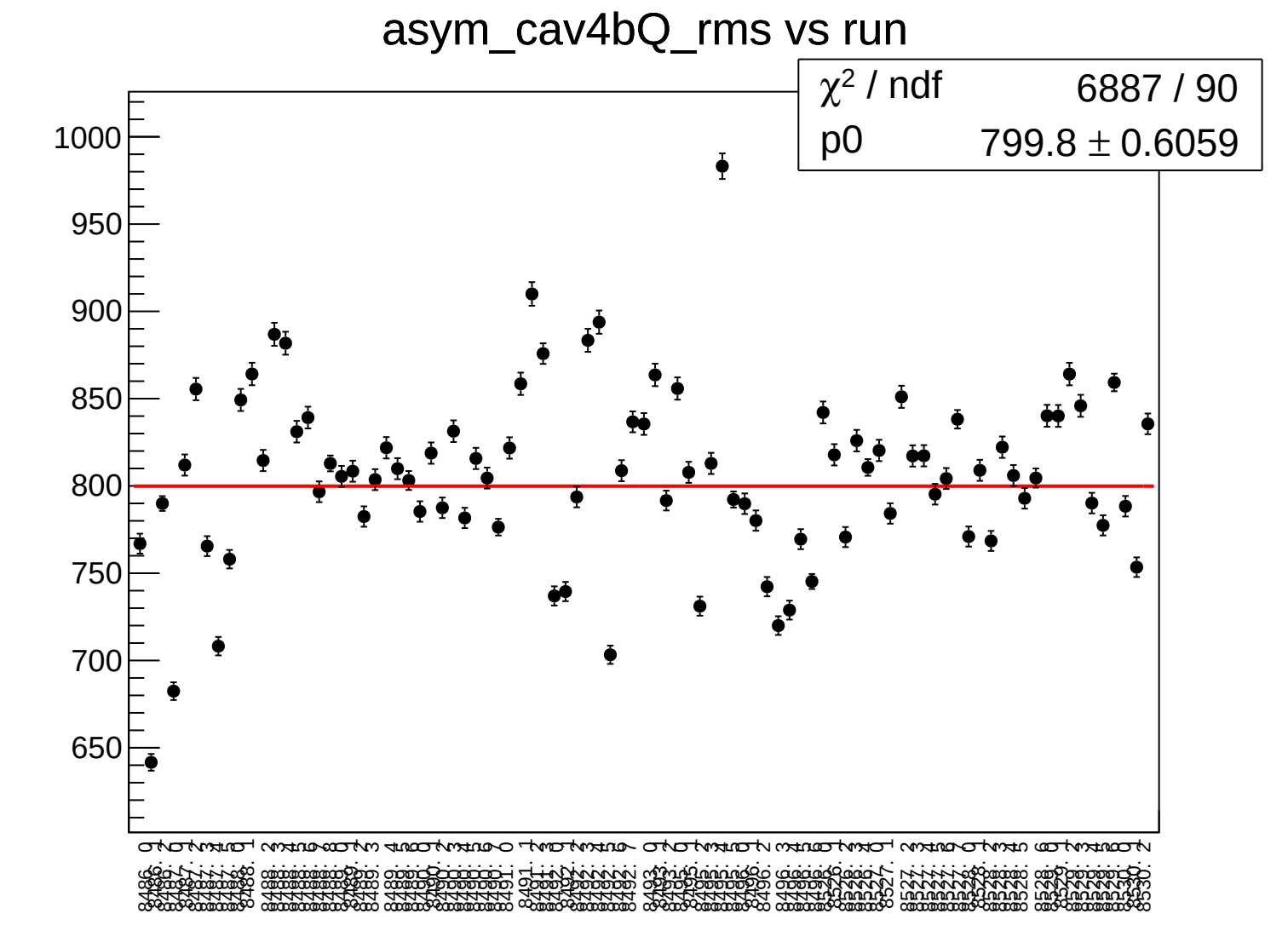

asym_bcm_dg_ds_mean vs run
χ² / ndf 68.17 / 90
p0 900 ± 259
pull
Entries 91
Mean 27.74
Std Dev 0

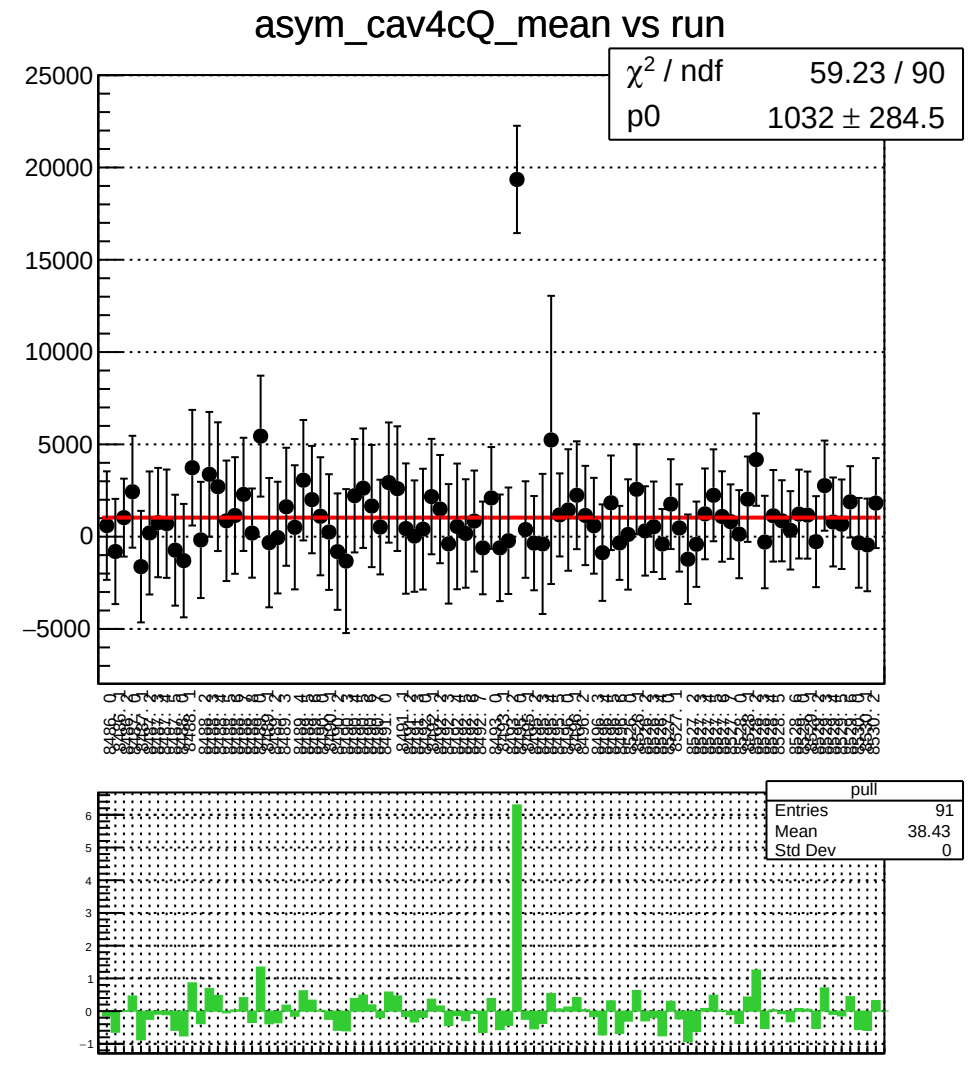

pull1D
Entries 91
Mean 0.01413
Std Dev 0.8654

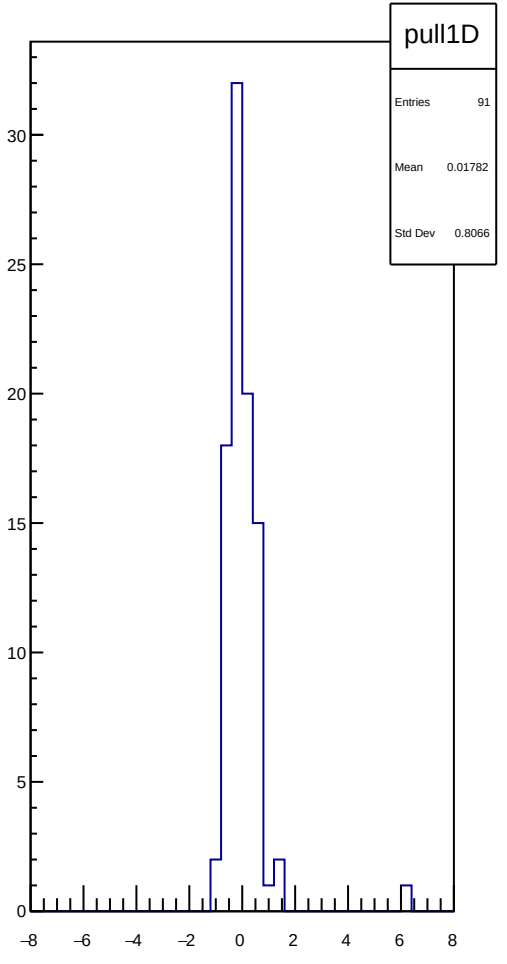

asym_bcm_dg_ds_rms vs run
χ^2 / ndf 3.315e+04 / 90
p0 240 ± 0.1832
700
600
500
400
300
200

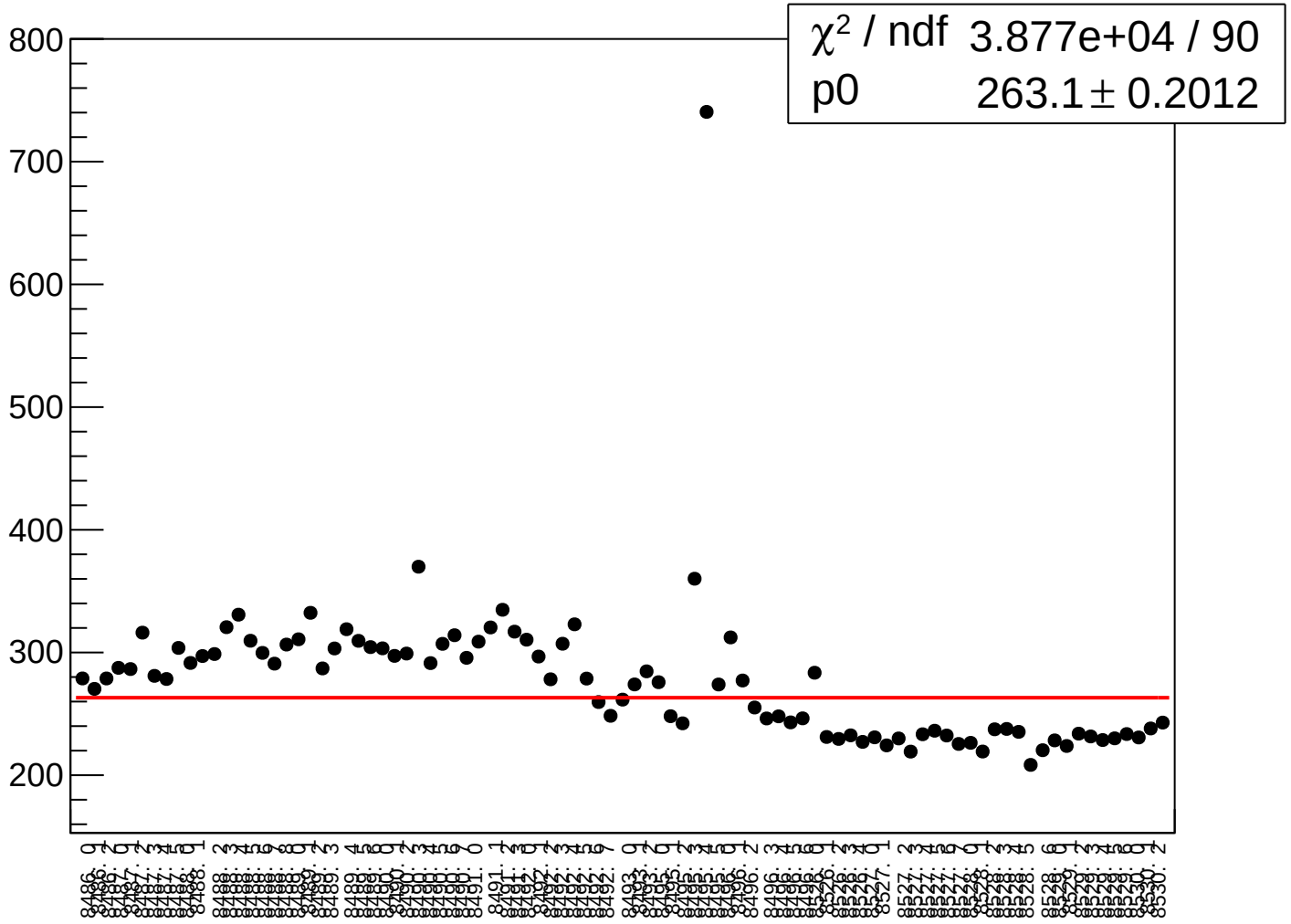

asym_cav4bQ_mean vs run
χ² / ndf 82.11 / 90
p0 −126.8 ± 856.9
pull
Entries 91
Mean 108.9
Std Dev 0

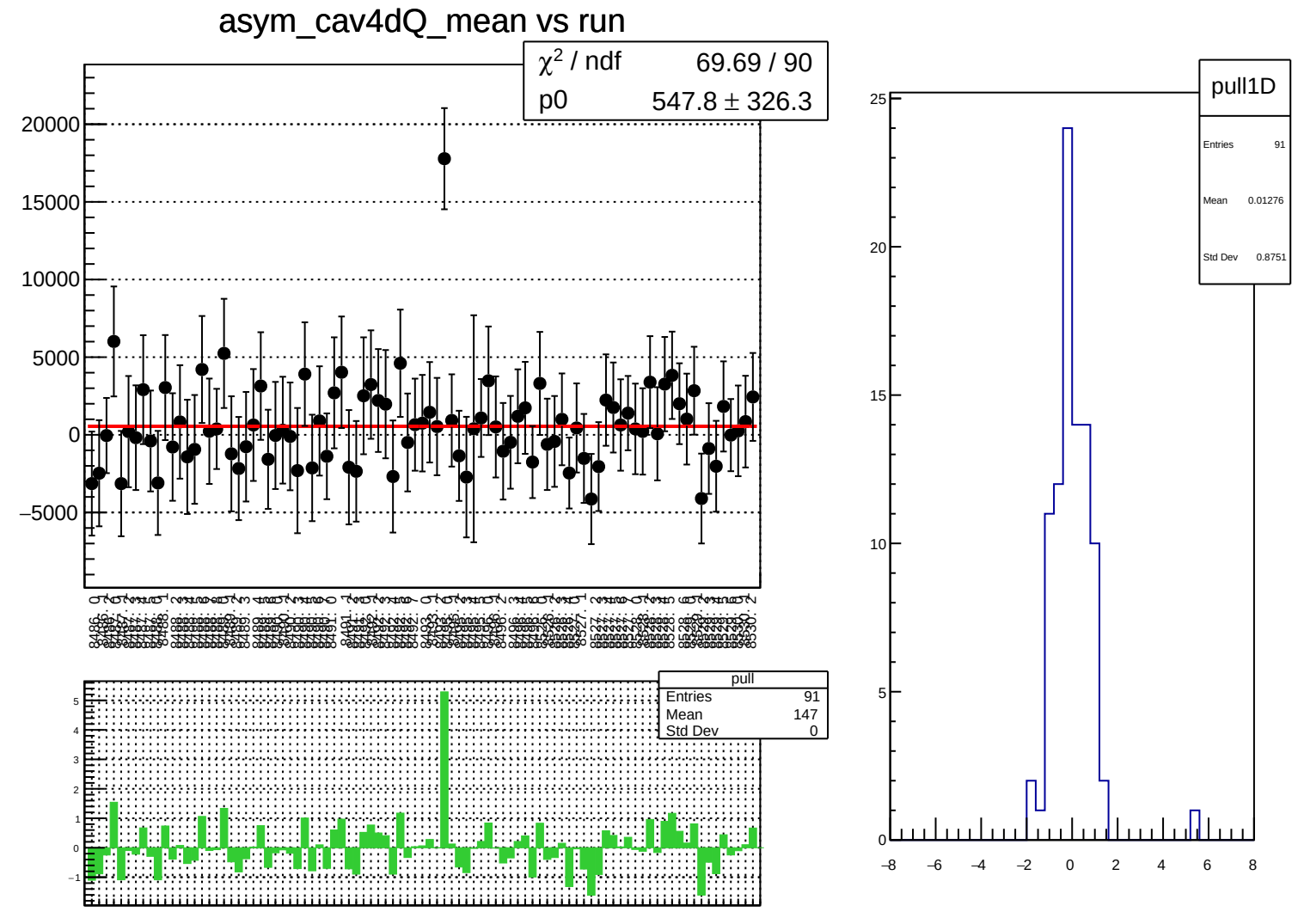

pull1D
Entries 91
Mean 0.02039
Std Dev 0.9497

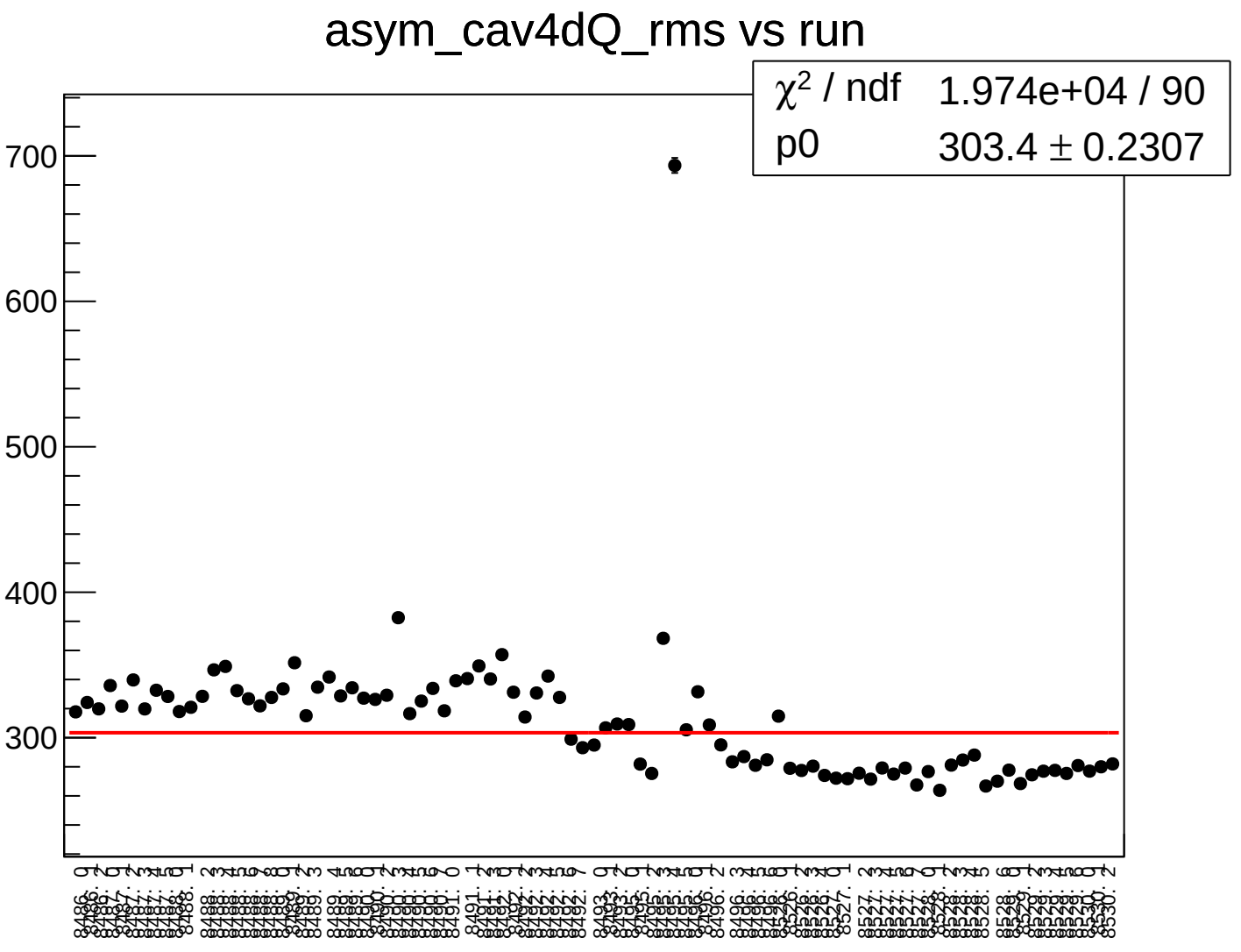

asym_cav4bQ_rms vs run
χ² / ndf 6887 / 90
p0 799.8 ± 0.6059
1000
950
900
850
800
750
700
650

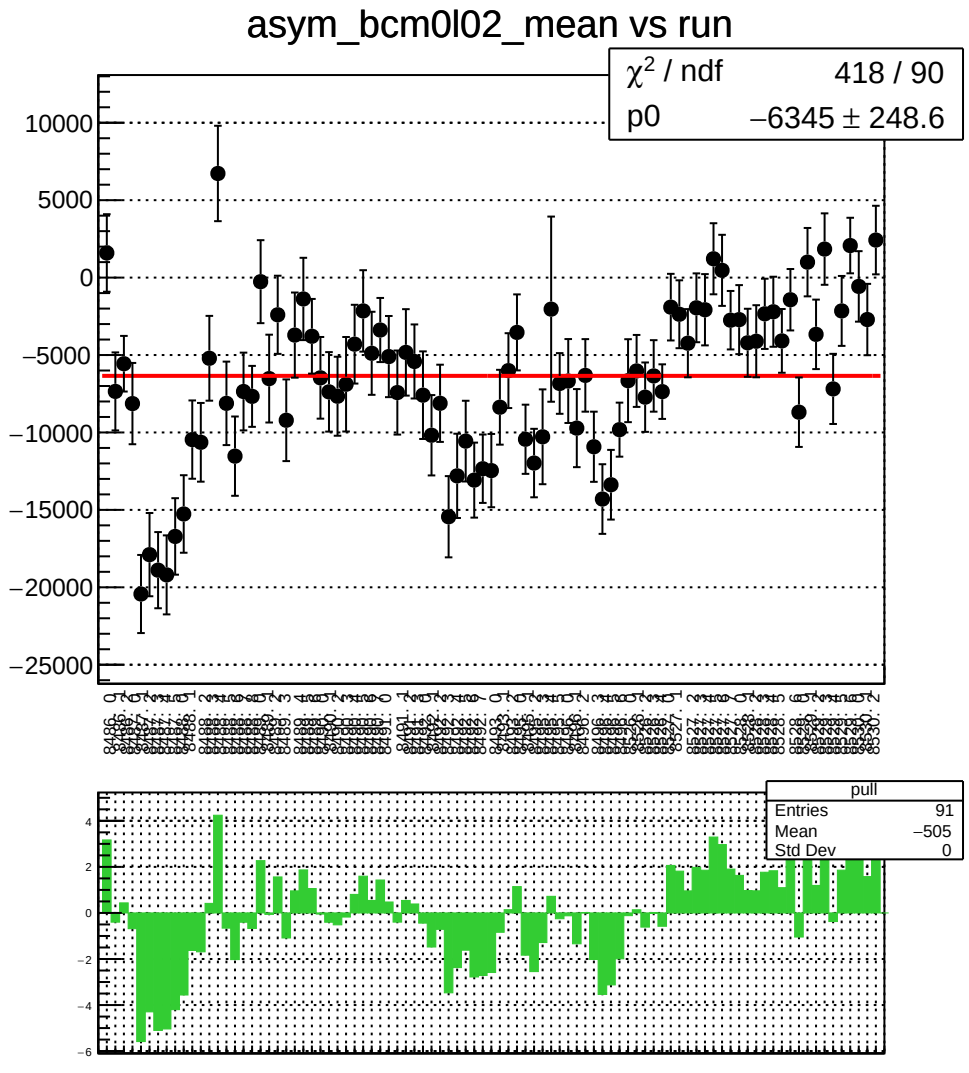

asym_cav4cQ_mean vs run
χ² / ndf 59.23 / 90
p0 1032 ± 284.5
25000
20000
15000
10000
5000
0
−5000
pull
Entries 91
Mean 38.43
Std Dev 0
6
5
4
3
2
1
0
−1

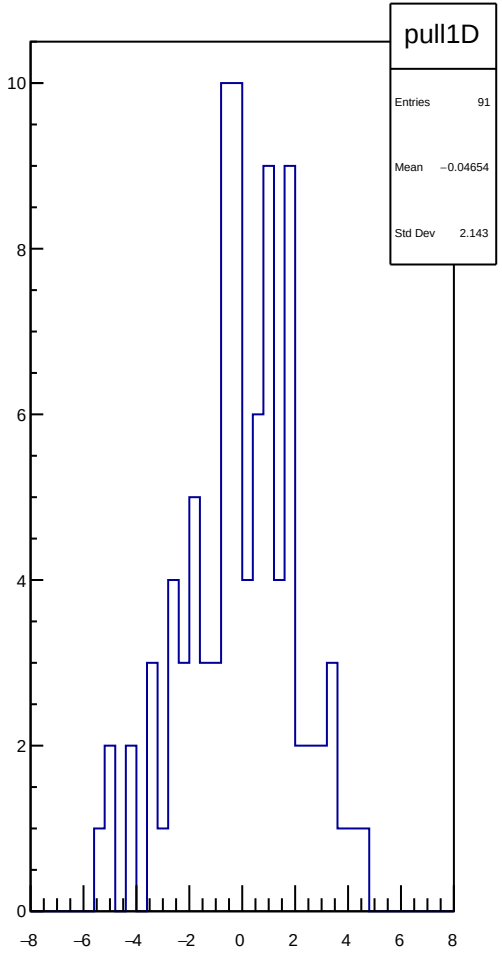

pull1D
Entries 91
Mean 0.01782
Std Dev 0.8066
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

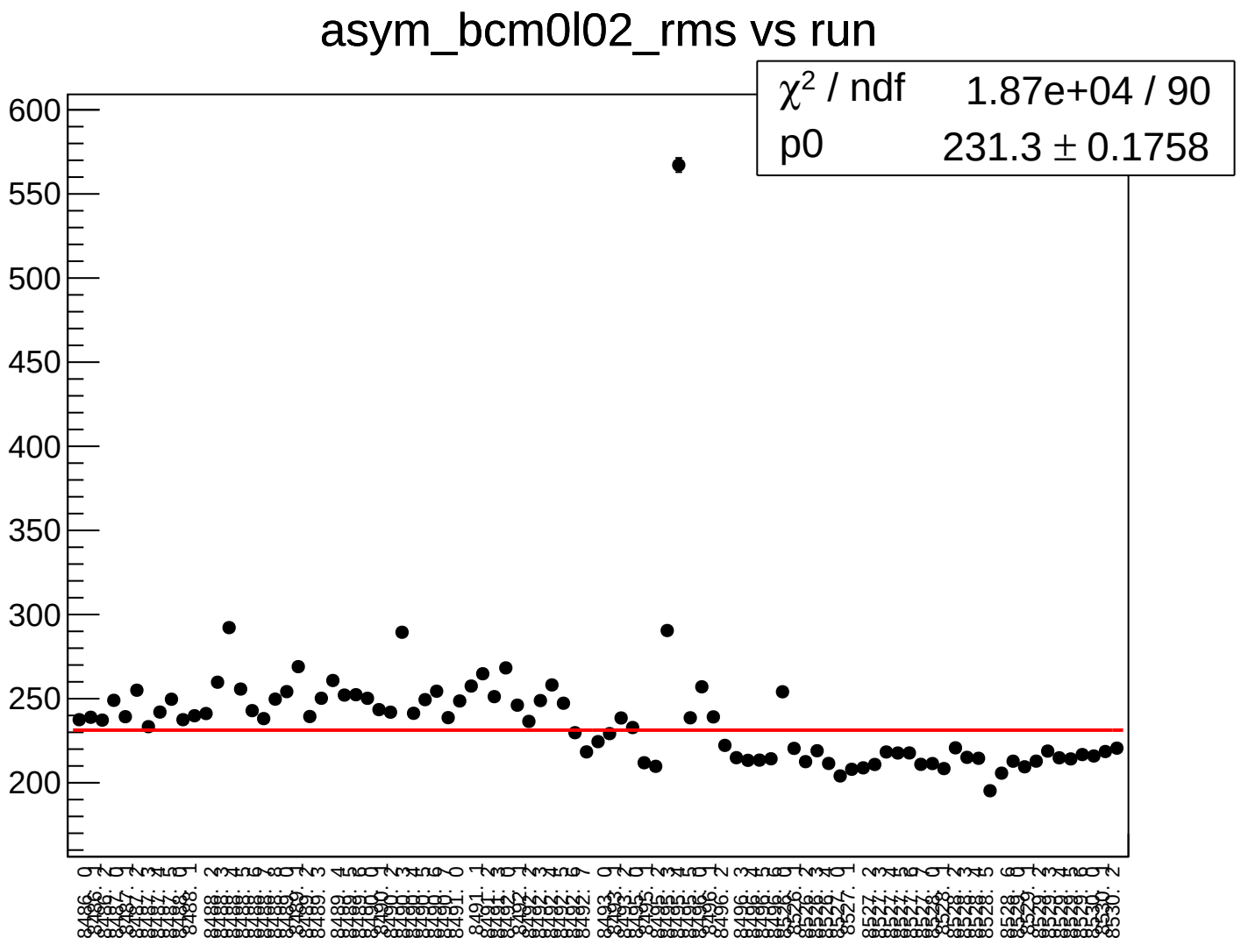

asym_cav4cQ_rms vs run
χ² / ndf 3.877e+04 / 90
p0 263.1 ± 0.2012
800
700
600
500
400
300
200

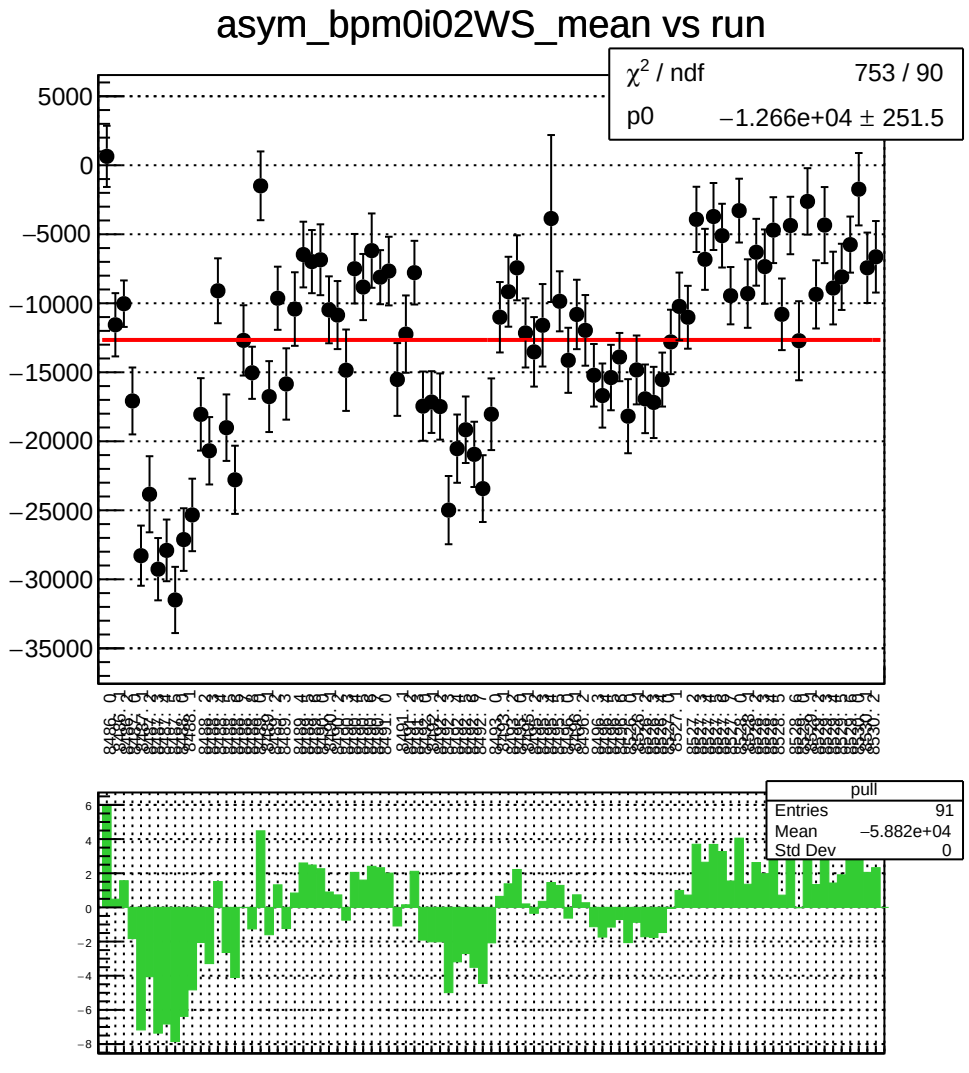

asym_cav4dQ_mean vs run
χ² / ndf 69.69 / 90
p0 547.8 ± 326.3
20000
15000
10000
5000
0
−5000
pull
Entries 91
Mean 147
Std Dev 0
pull1D
Entries 91
Mean 0.01276
Std Dev 0.8751
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

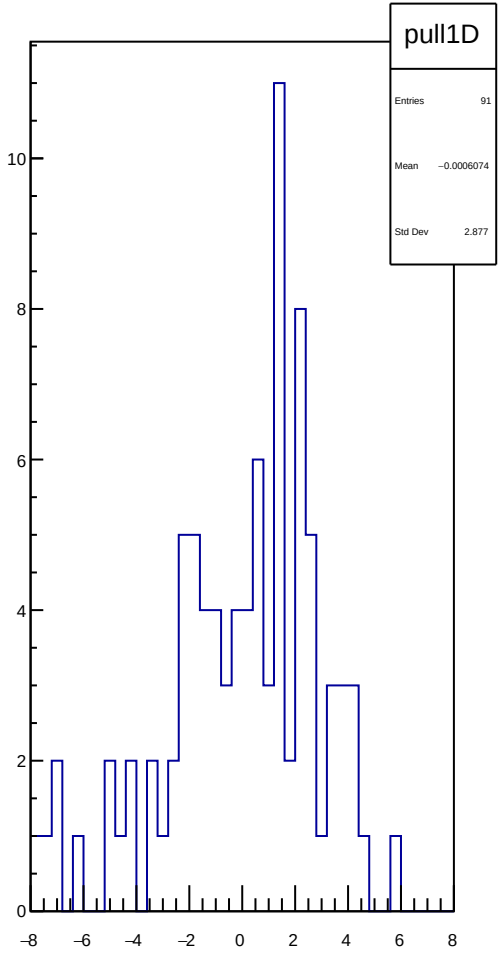

asym_cav4dQ_rms vs run
χ² / ndf 1.974e+04 / 90
p0 303.4 ± 0.2307
700
600
500
400
300

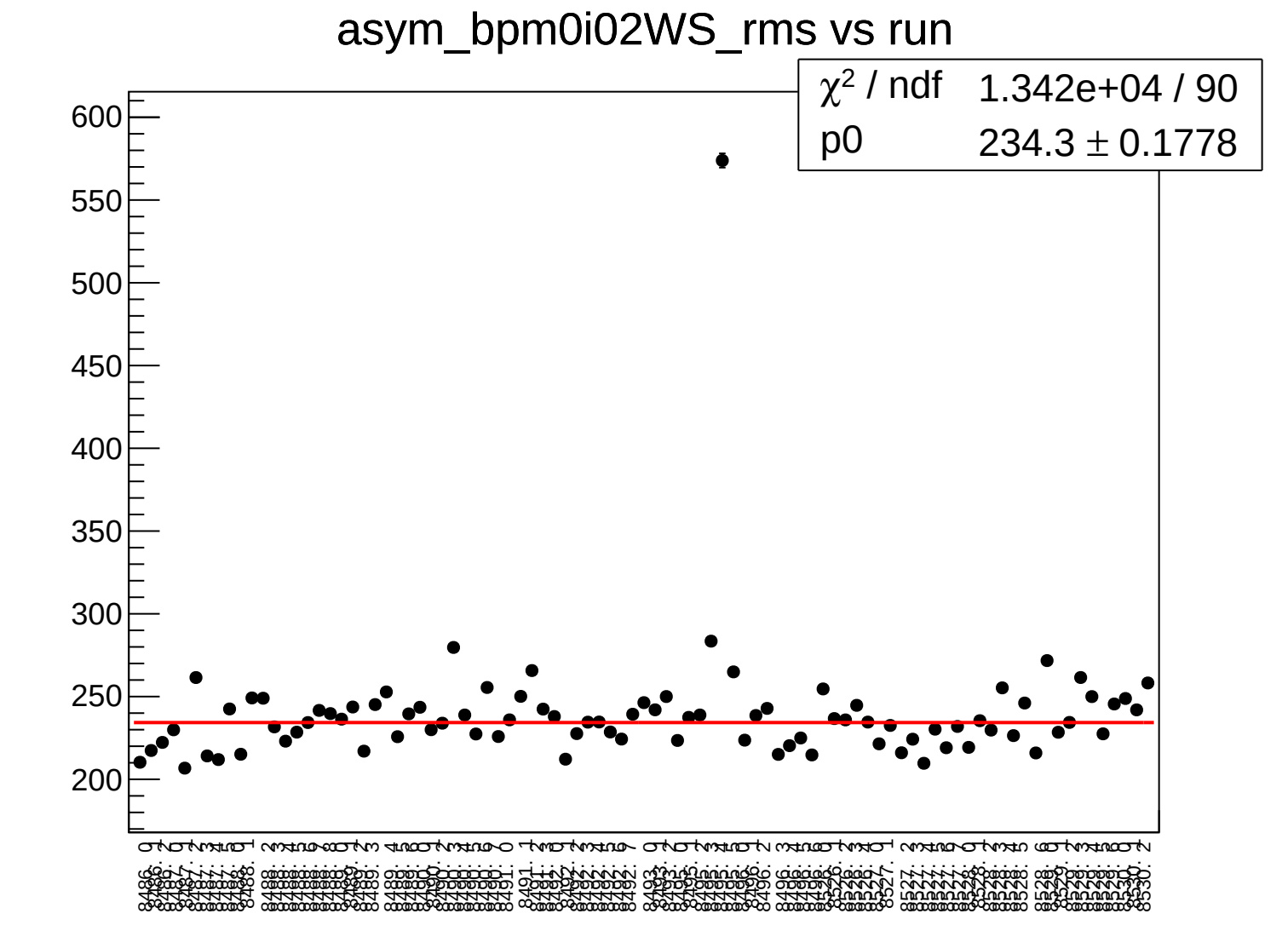

asym_bcm0l02_mean vs run
χ² / ndf 418 / 90
p0 −6345 ± 248.6
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 91
Mean −505
Std Dev 0
4
2
0
−2
−4
−6

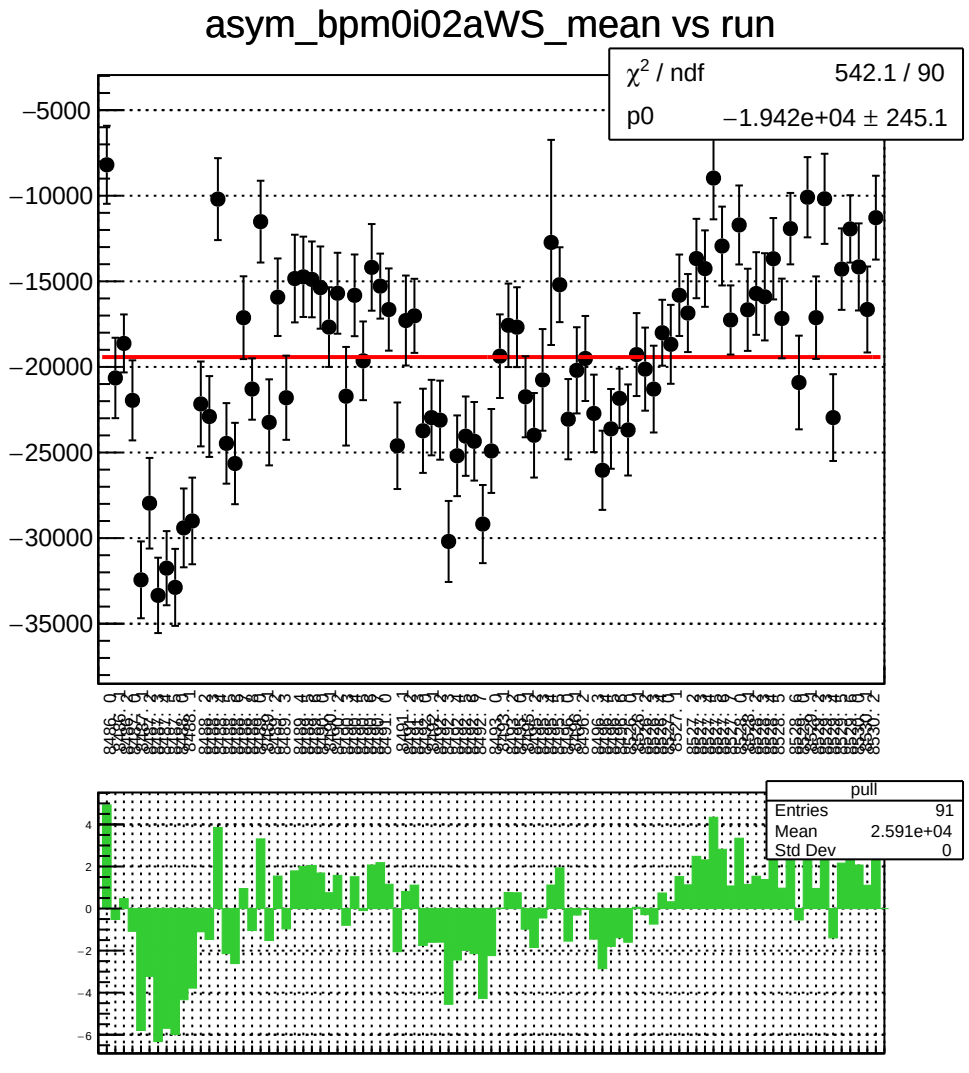

pull1D
Entries 91
Mean −0.04654
Std Dev 2.143
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

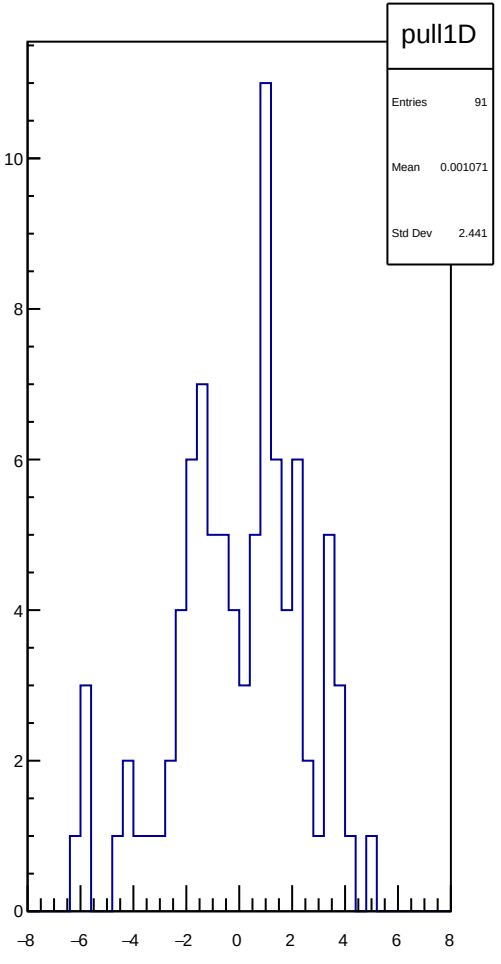

asym_bcm0l02_rms vs run
χ^2 / ndf 1.87e+04 / 90
p0 231.3 ± 0.1758
600
550
500
450
400
350
300
250
200

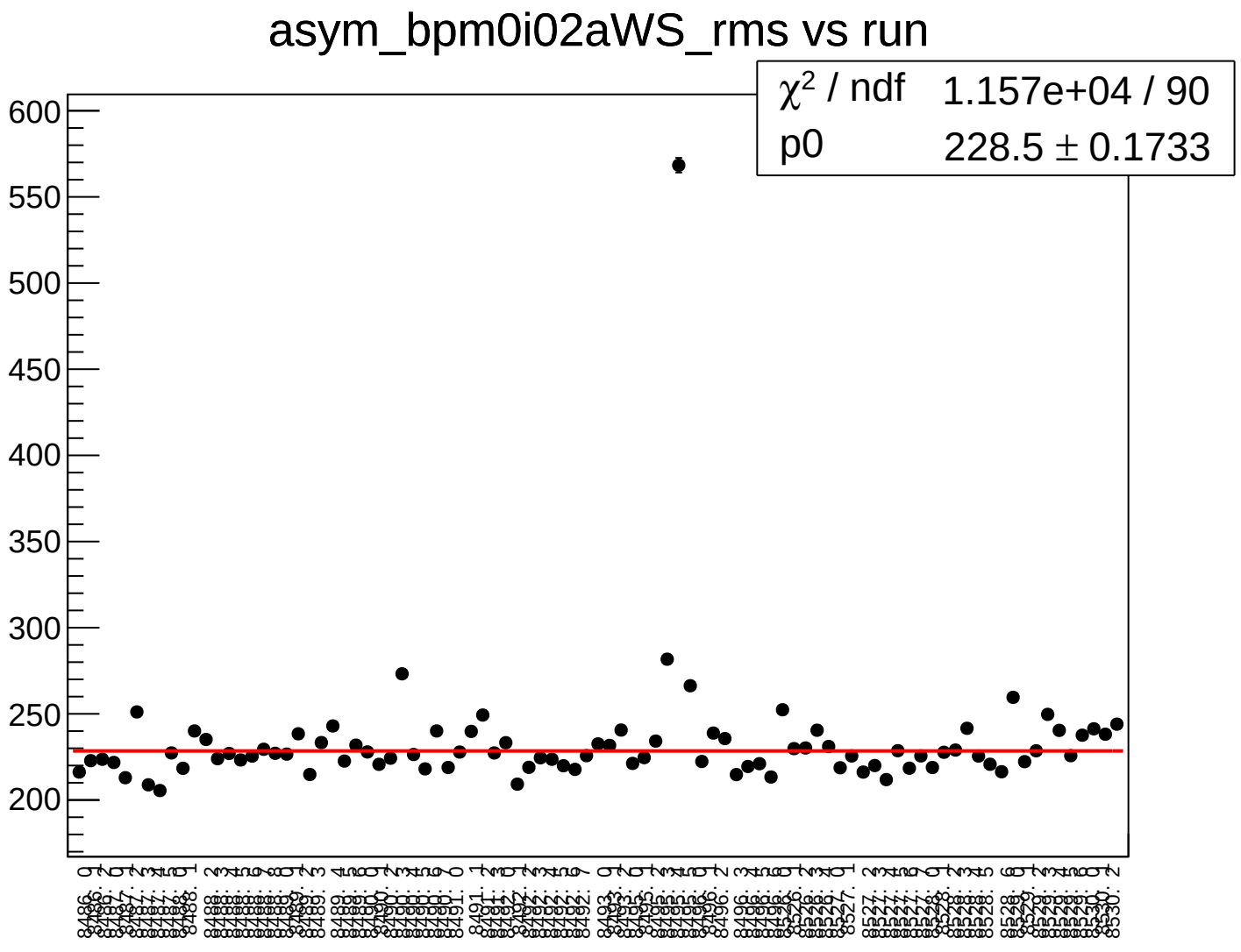

asym_bpm0i02WS_mean vs run
χ² / ndf 753 / 90
p0 −1.266e+04 ± 251.5
pull
Entries 91
Mean −5.882e+04
Std Dev 0

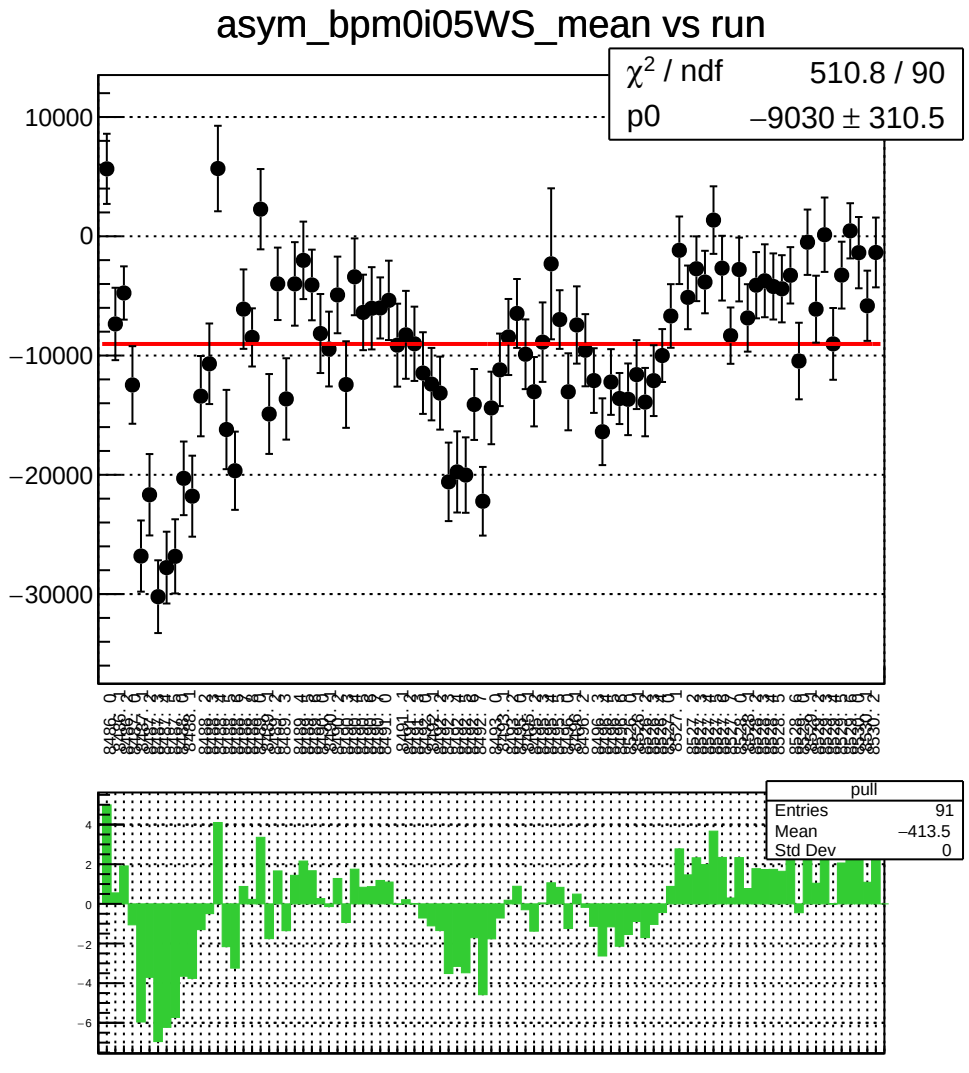

pull1D
Entries 91
Mean −0.0006074
Std Dev 2.877

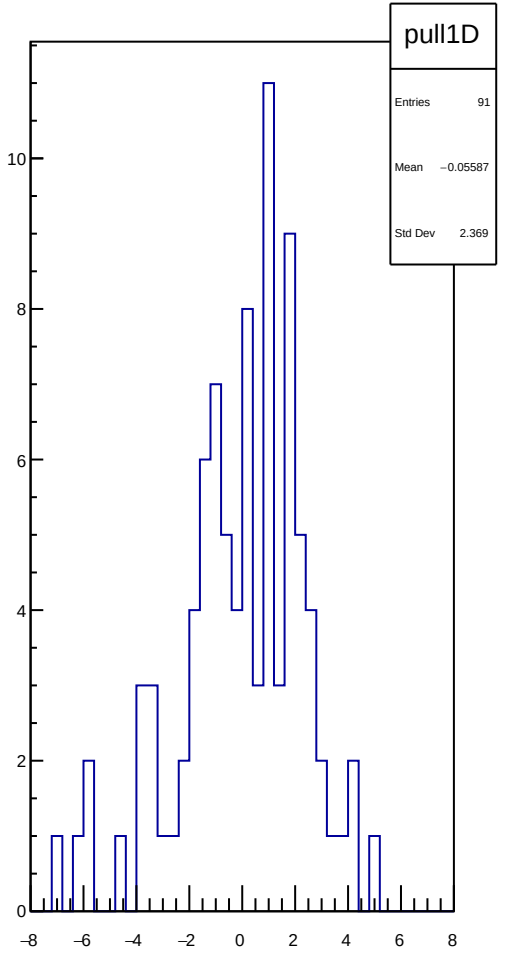

asym_bpm0i02WS_rms vs run
χ^2 / ndf 1.342e+04 / 90
p0 234.3 ± 0.1778
600
550
500
450
400
350
300
250
200

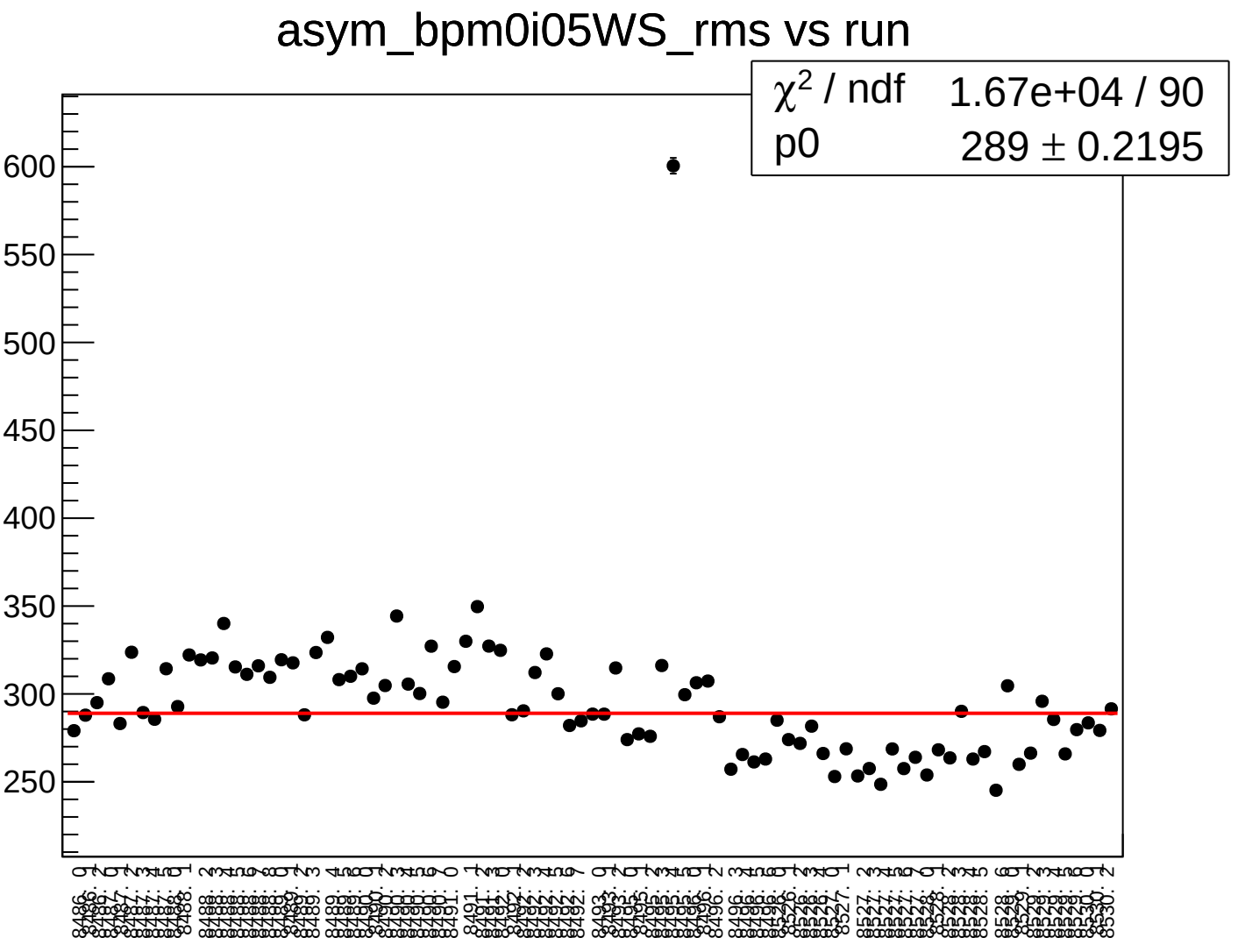

asym_bpm0i02aWS_mean vs run
χ² / ndf 542.1 / 90
p0 −1.942e+04 ± 245.1
−5000
−10000
−15000
−20000
−25000
−30000
−35000
pull
Entries 91
Mean 2.591e+04
Std Dev 0
4
2
0
−2
−4
−6

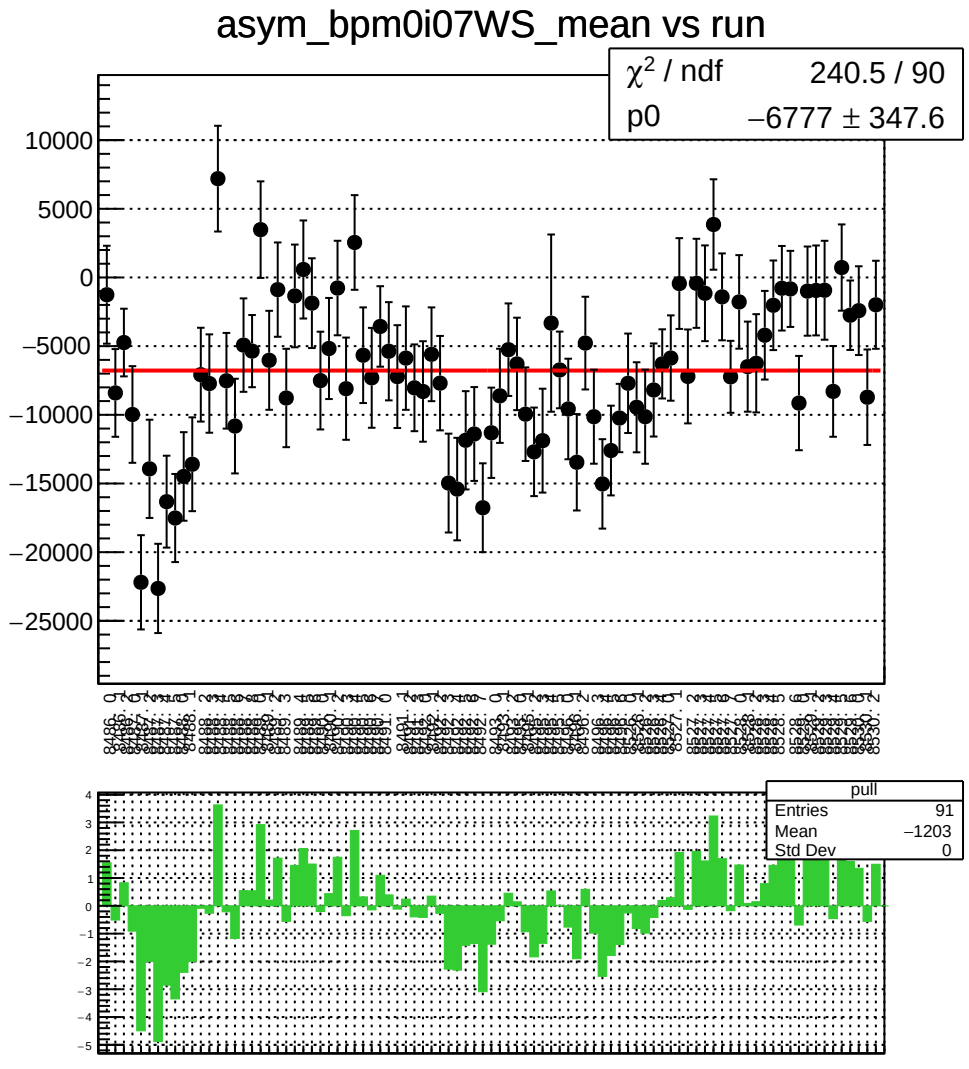

pull1D
Entries 91
Mean 0.001071
Std Dev 2.441
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

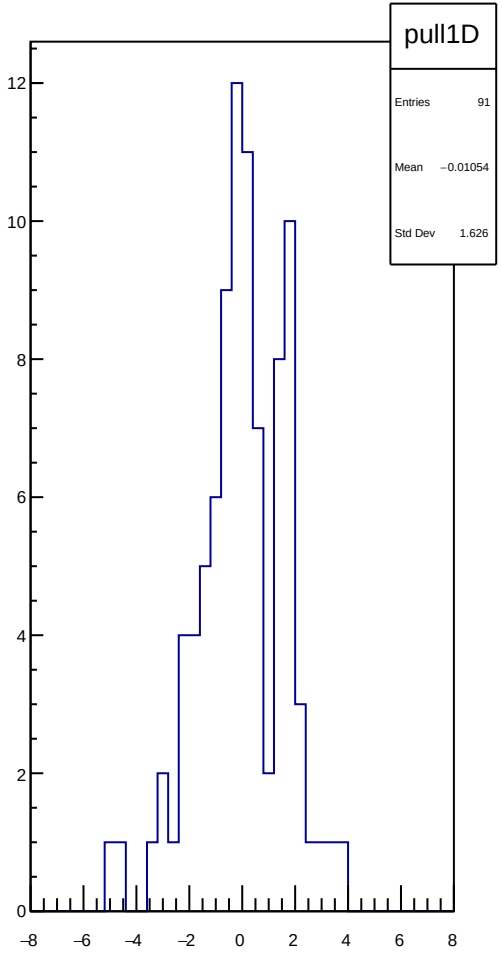

asym_bpm0i02aWS_rms vs run
χ^2 / ndf 1.157e+04 / 90
p0 228.5 ± 0.1733
600
550
500
450
400
350
300
250
200

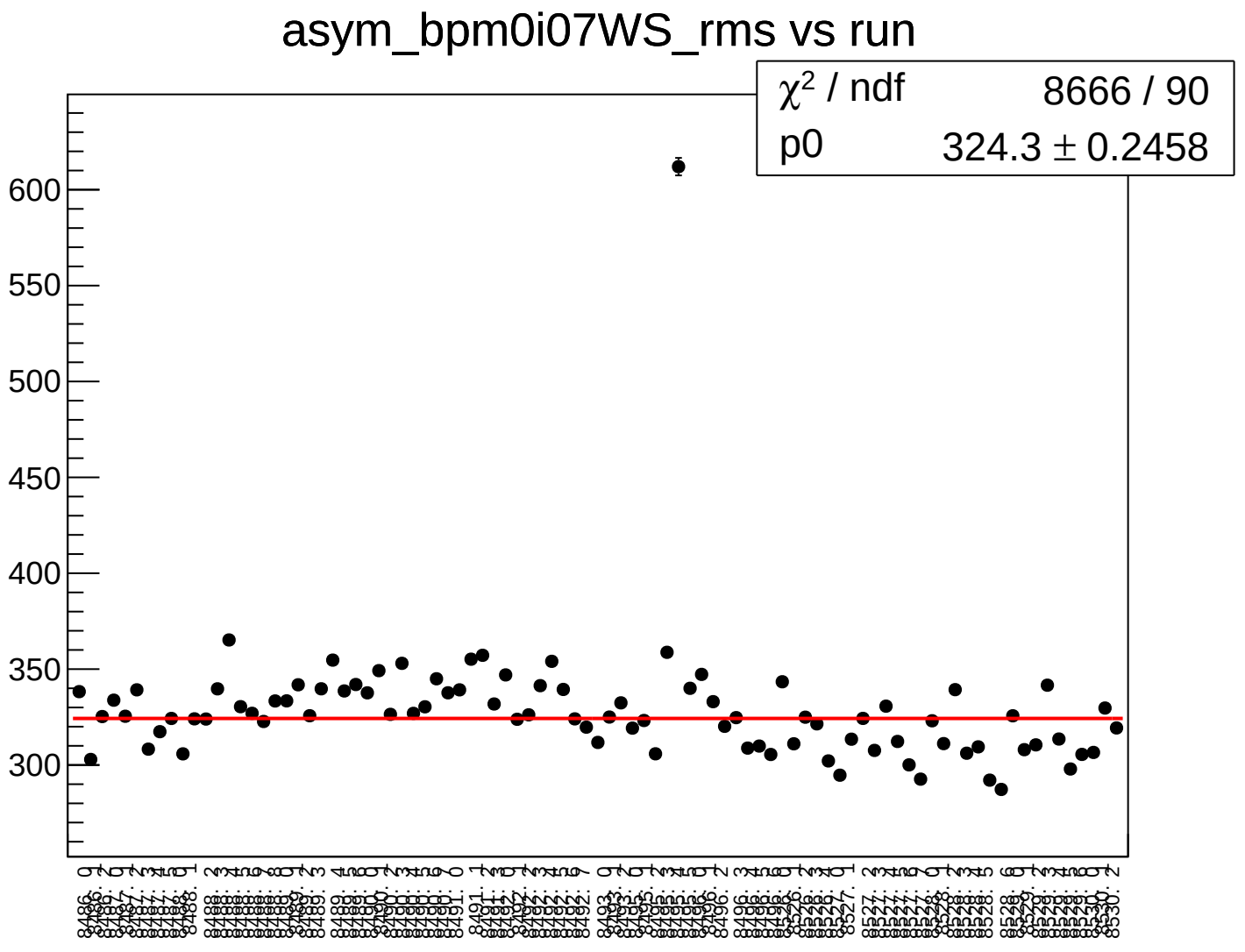

asym_bpm0i05WS_mean vs run
χ² / ndf 510.8 / 90
p0 −9030 ± 310.5
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −413.5
Std Dev 0
4
2
0
−2
−4
−6

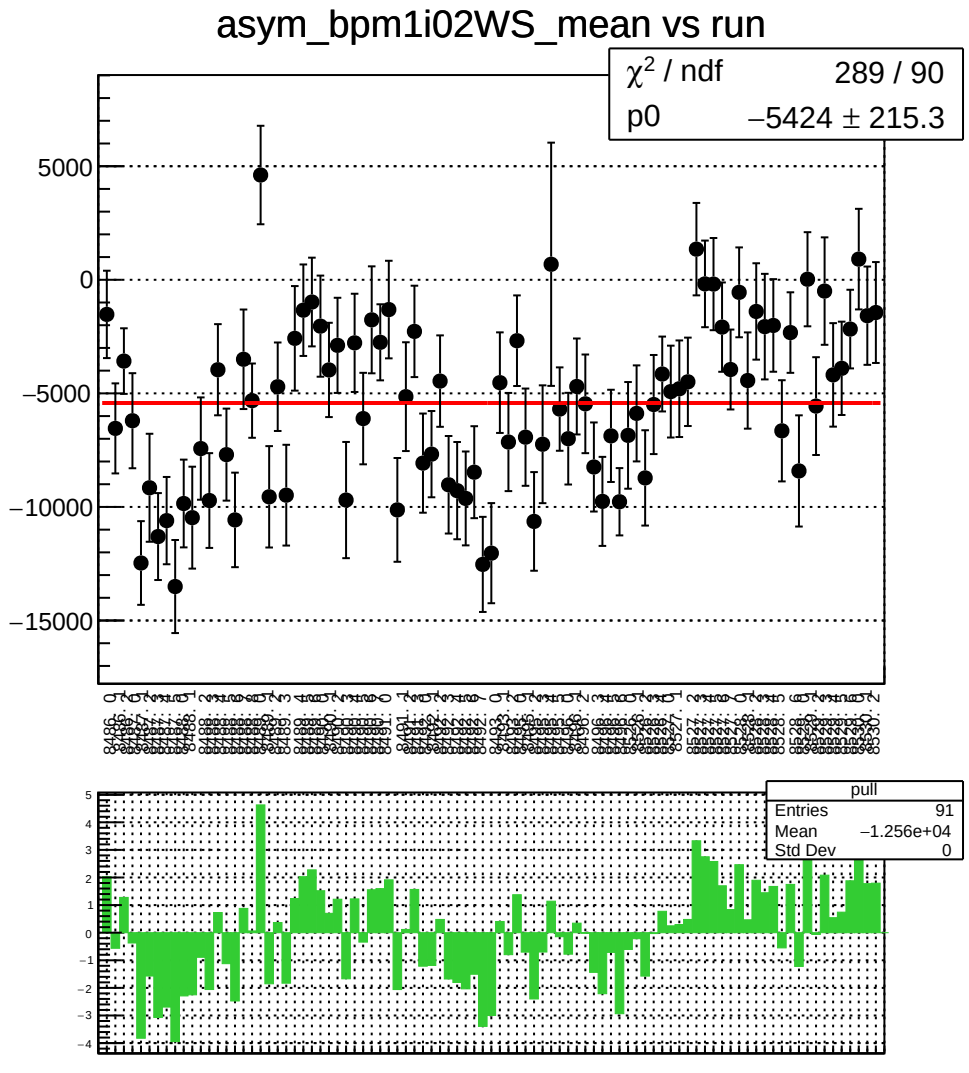

pull1D
Entries 91
Mean −0.05587
Std Dev 2.369
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

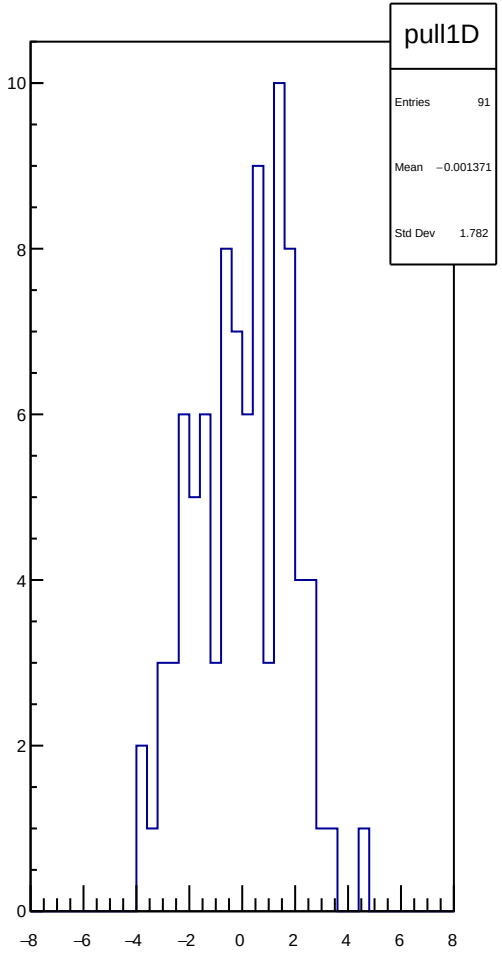

asym_bpm0i05WS_rms vs run
χ^2 / ndf 1.67e+04 / 90
p0 289 ± 0.2195
600
550
500
450
400
350
300
250

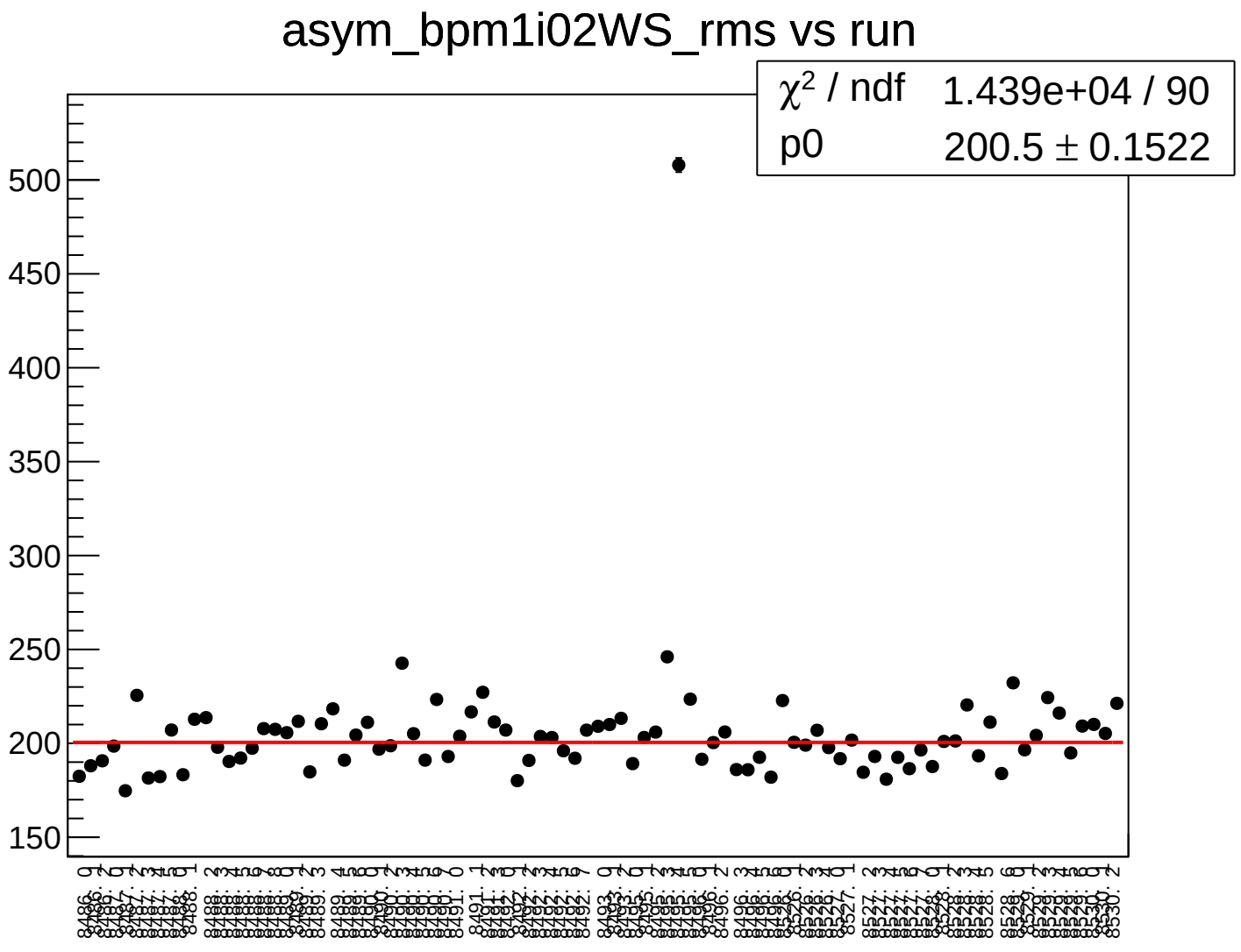

asym_bpm0i07WS_mean vs run
χ² / ndf 240.5 / 90
p0 −6777 ± 347.6
pull
Entries 91
Mean −1203
Std Dev 0

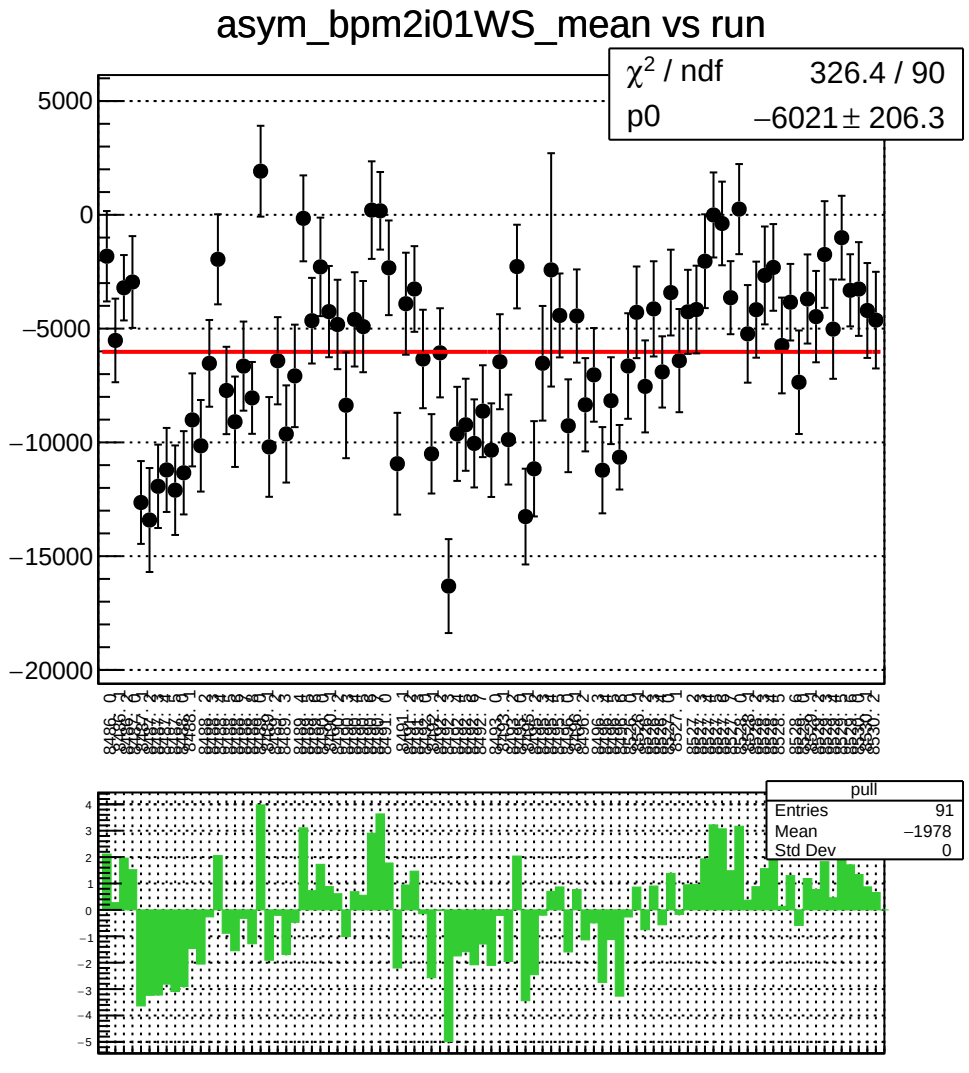

pull1D
Entries 91
Mean −0.01054
Std Dev 1.626

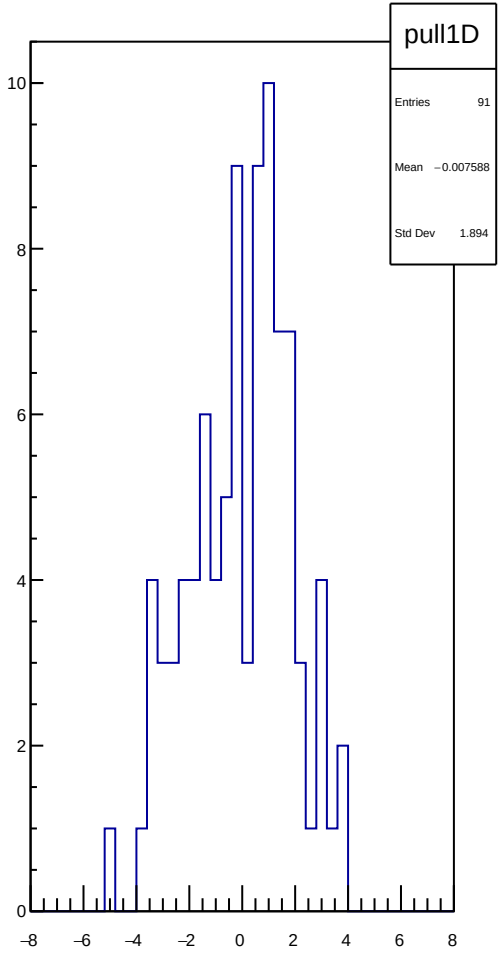

asym_bpm0i07WS_rms vs run
χ^2 / ndf 8666 / 90
p0 324.3 ± 0.2458
600
550
500
450
400
350
300

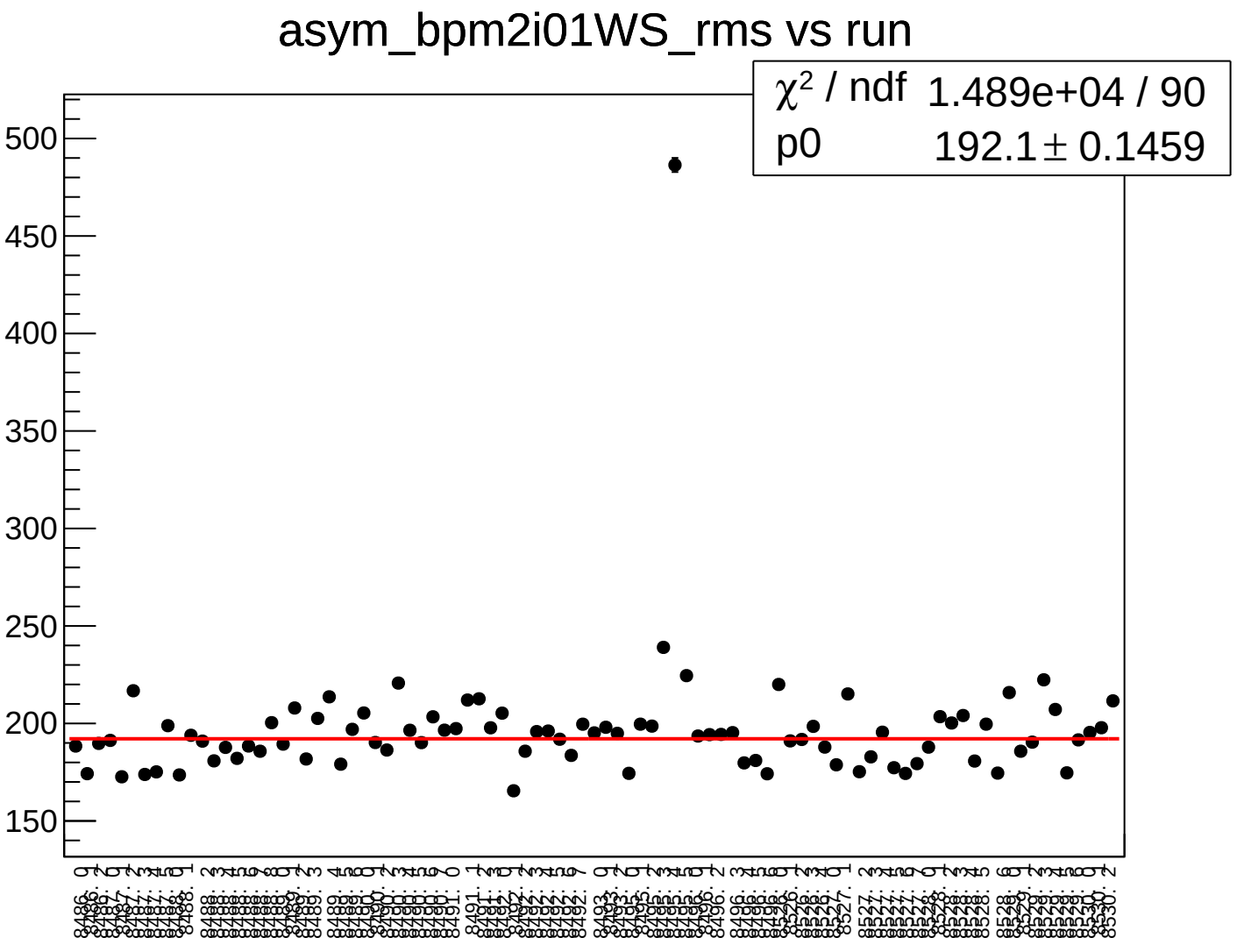

asym_bpm1i02WS_mean vs run
χ² / ndf 289 / 90
p0 −5424 ± 215.3
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean −1.256e+04
Std Dev 0

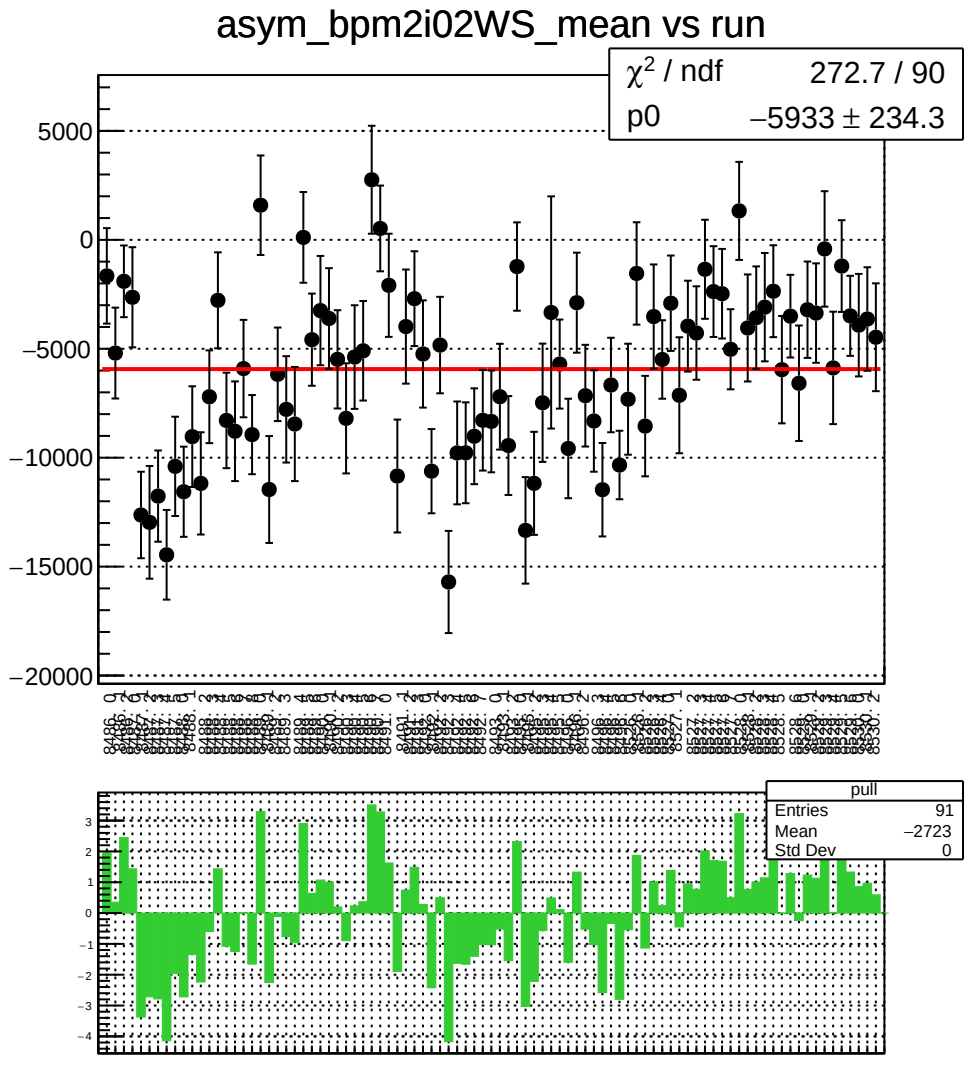

pull1D
Entries 91
Mean −0.001371
Std Dev 1.782

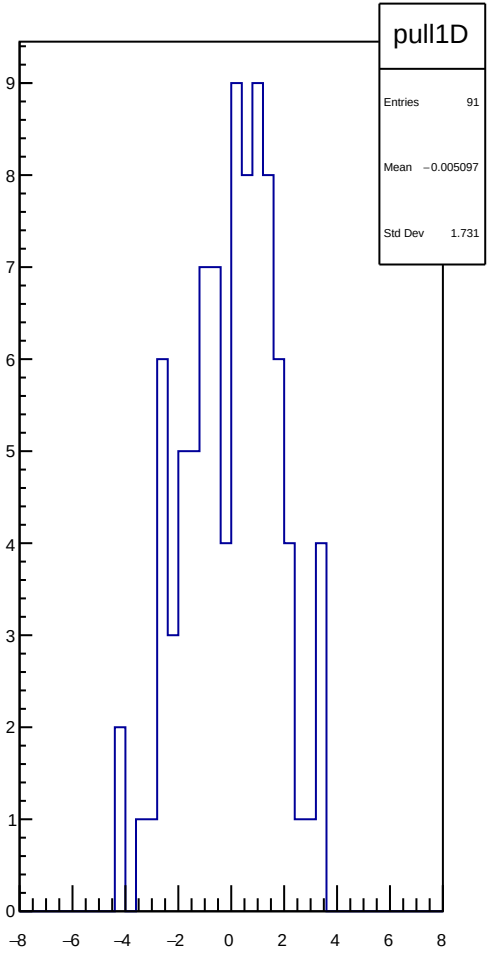

asym_bpm1i02WS_rms vs run
χ² / ndf 1.439e+04 / 90
p0 200.5 ± 0.1522
500
450
400
350
300
250
200
150

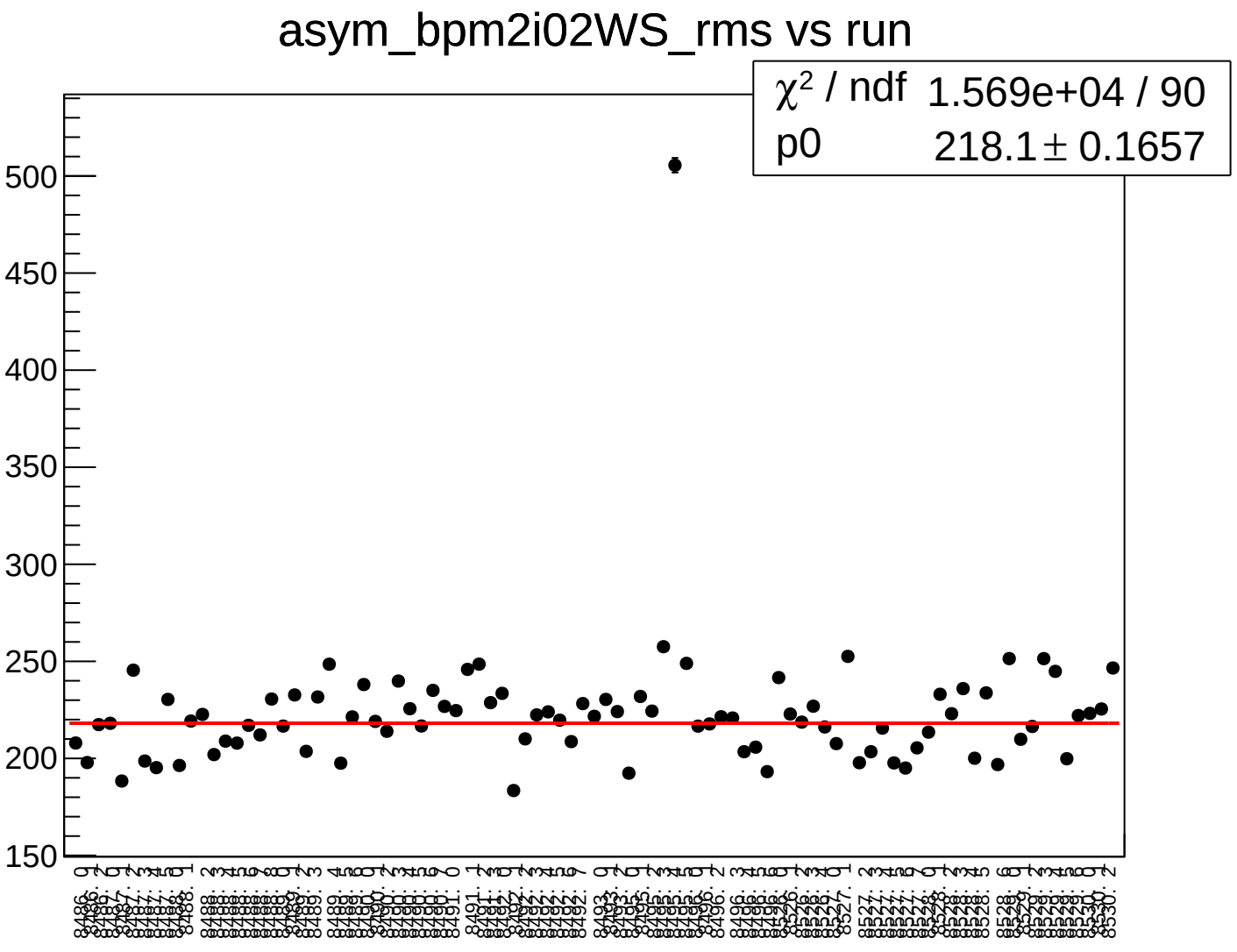

asym_bpm2i01WS_mean vs run
χ² / ndf 326.4 / 90
p0 −6021 ± 206.3
5000
0
−5000
−10000
−15000
−20000
pull
Entries 91
Mean −1978
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4
−5

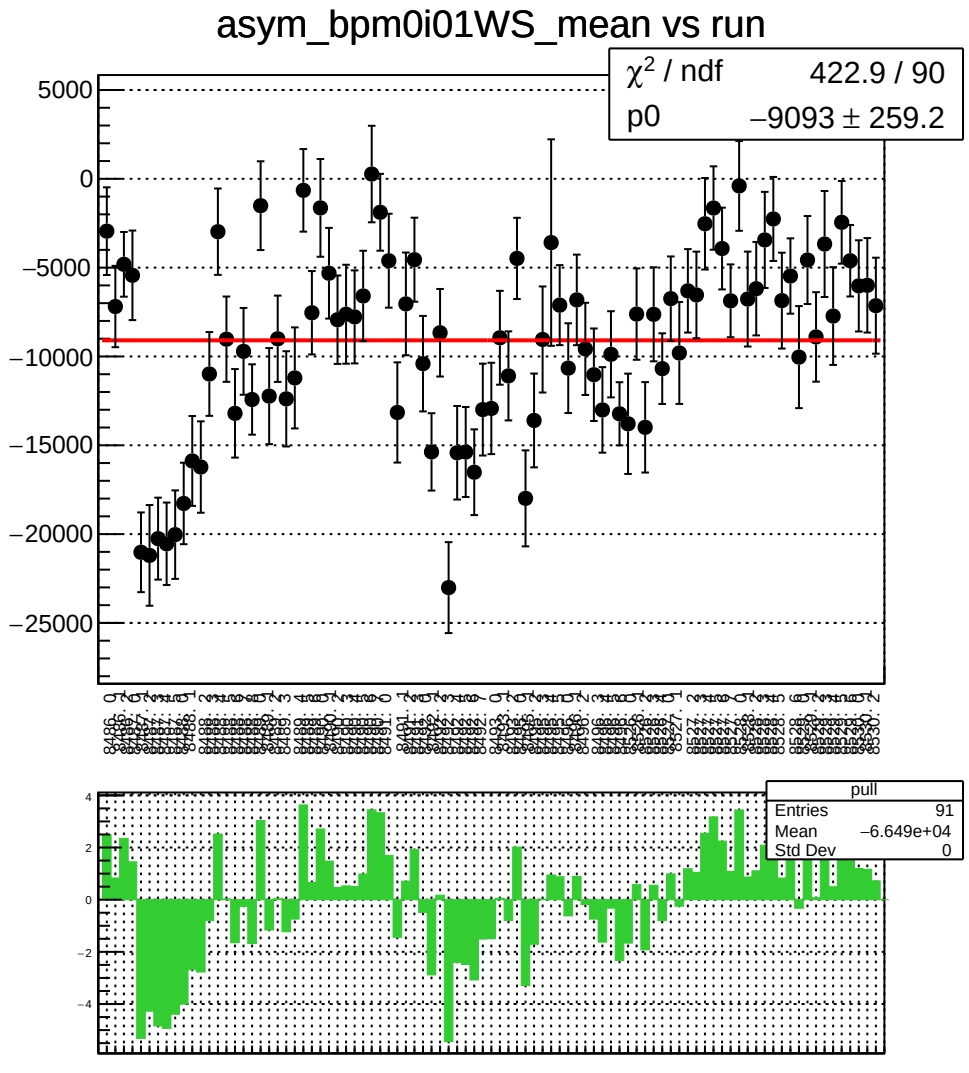

pull1D
Entries 91
Mean −0.007588
Std Dev 1.894
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

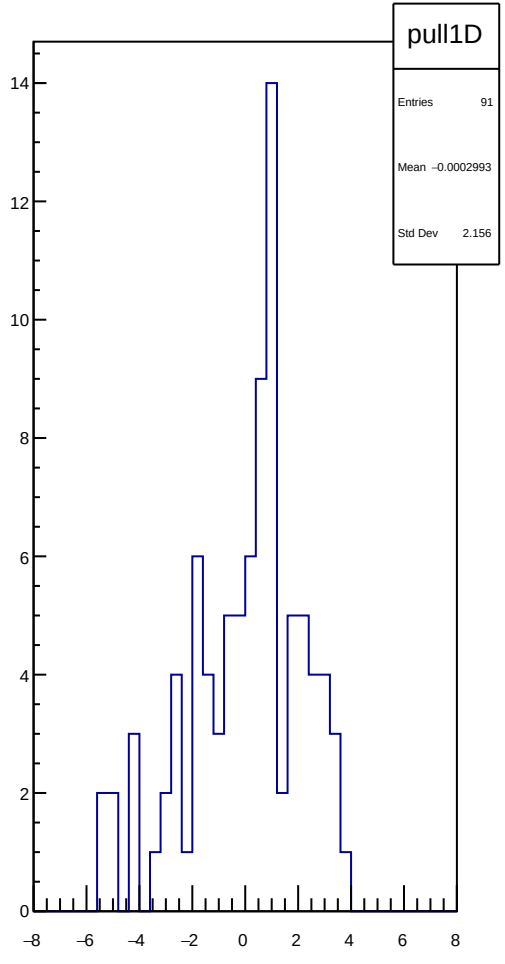

asym_bpm2i01WS_rms vs run
χ² / ndf 1.489e+04 / 90
p0 192.1 ± 0.1459
500
450
400
350
300
250
200
150

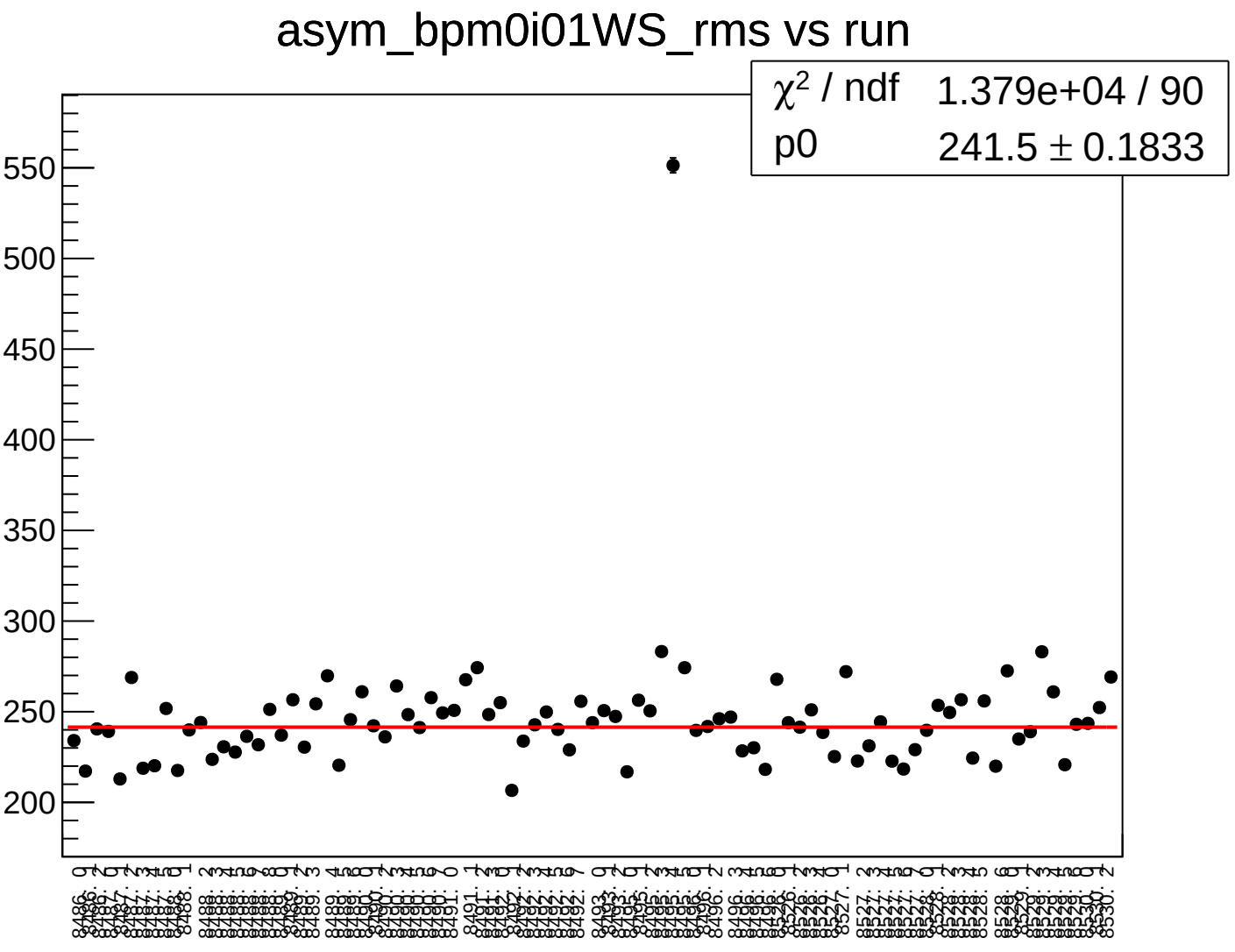

asym_bpm2i02WS_mean vs run
χ² / ndf 272.7 / 90
p0 −5933 ± 234.3
5000
0
−5000
−10000
−15000
−20000
pull
Entries 91
Mean −2723
Std Dev 0
3
2
1
0
−1
−2
−3
−4

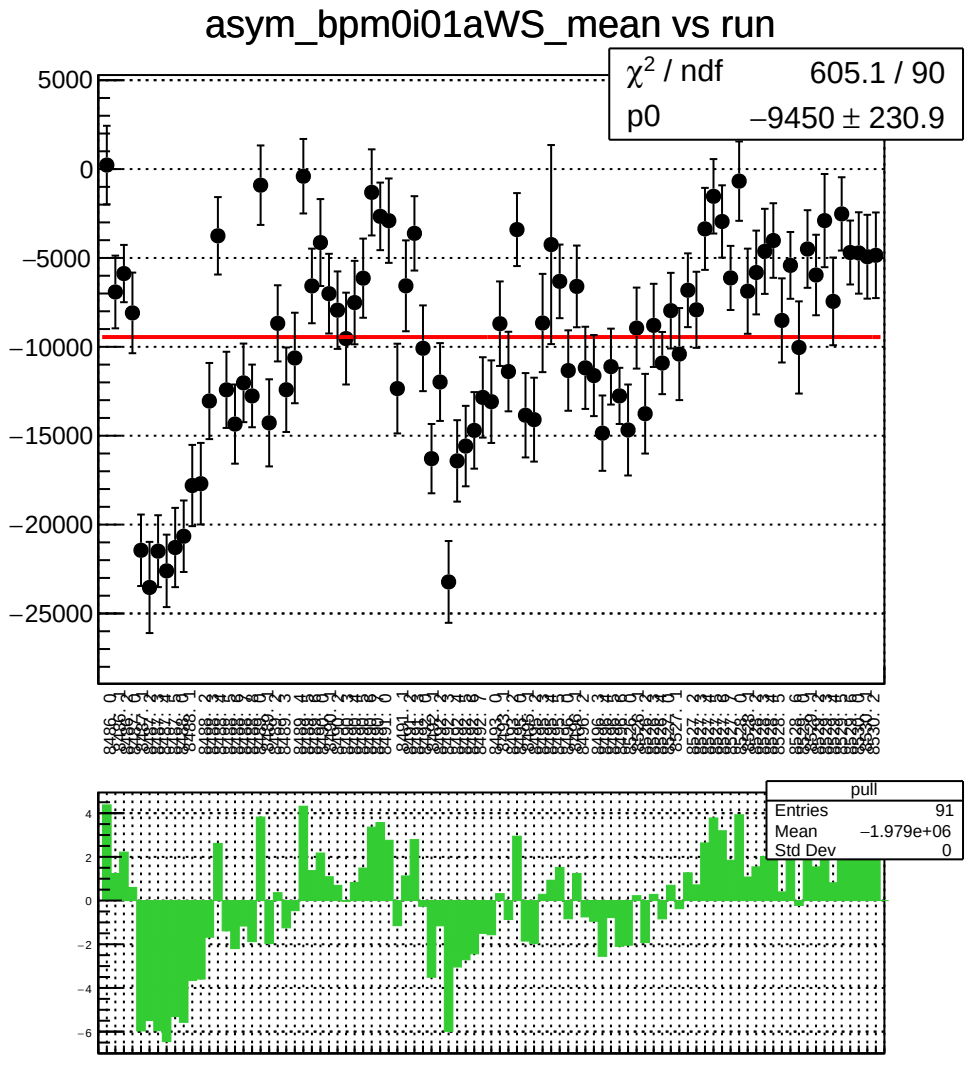

pull1D
Entries 91
Mean −0.005097
Std Dev 1.731
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

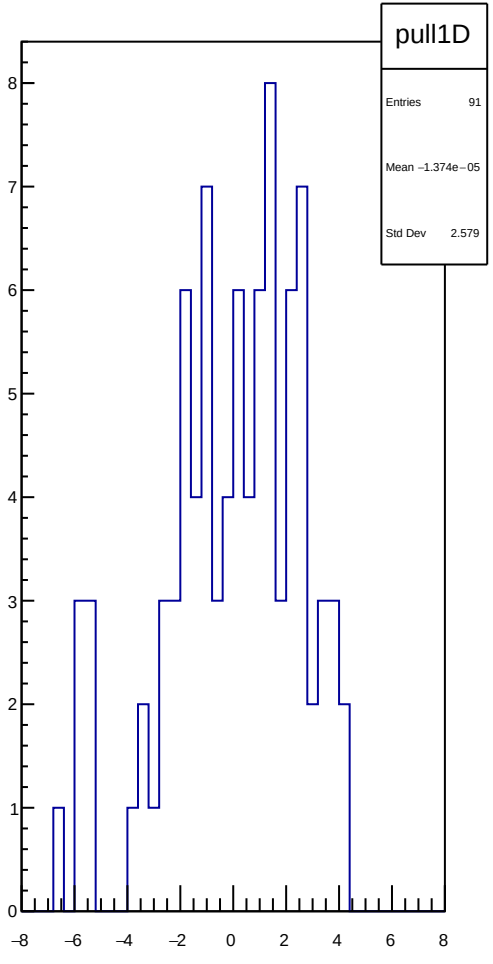

asym_bpm2i02WS_rms vs run
χ² / ndf 1.569e+04 / 90
p0 218.1 ± 0.1657
500
450
400
350
300
250
200
150

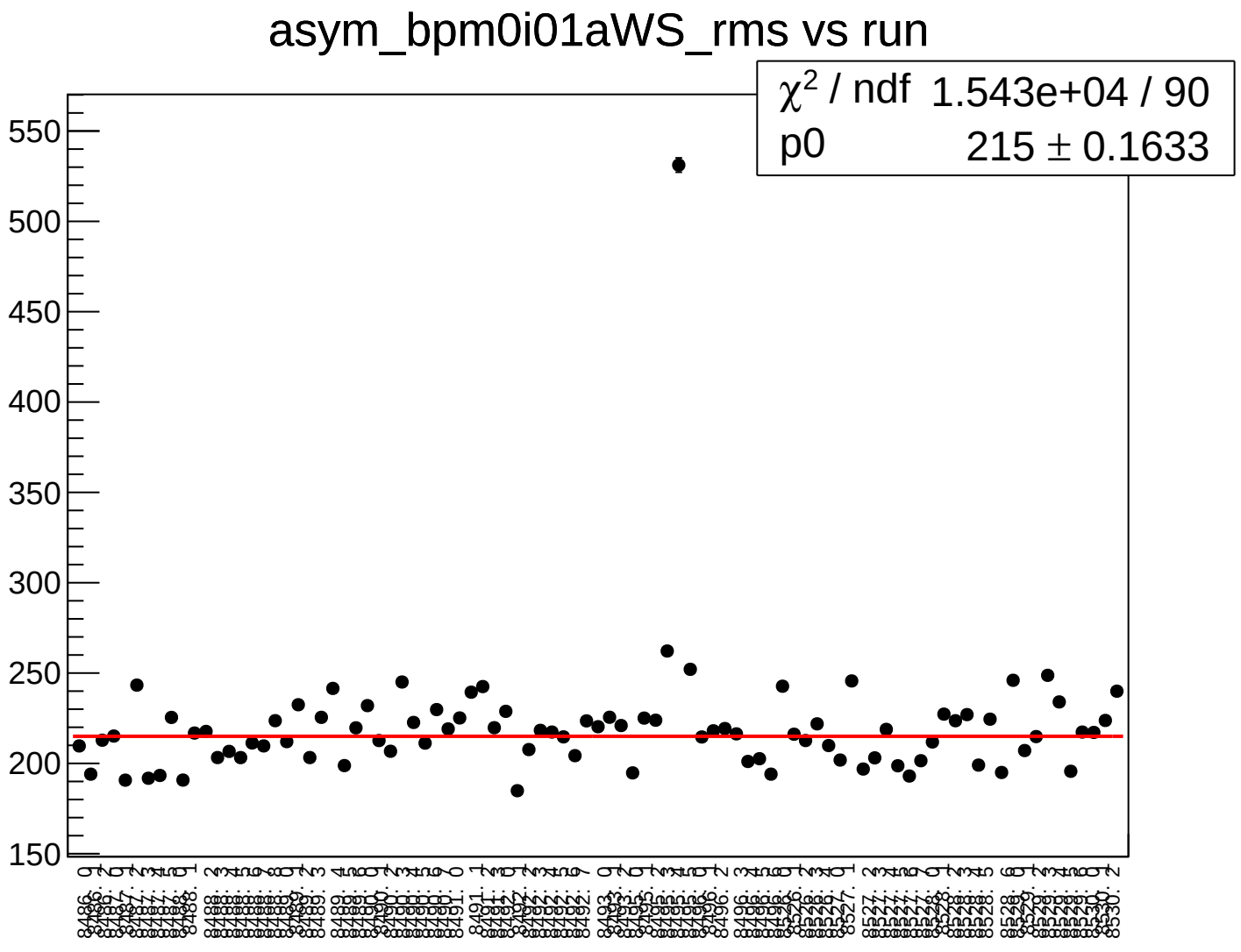

asym_bpm0i01WS_mean vs run
χ² / ndf 422.9 / 90
p0 −9093 ± 259.2
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 91
Mean −6.649e+04
Std Dev 0
4
2
0
−2
−4

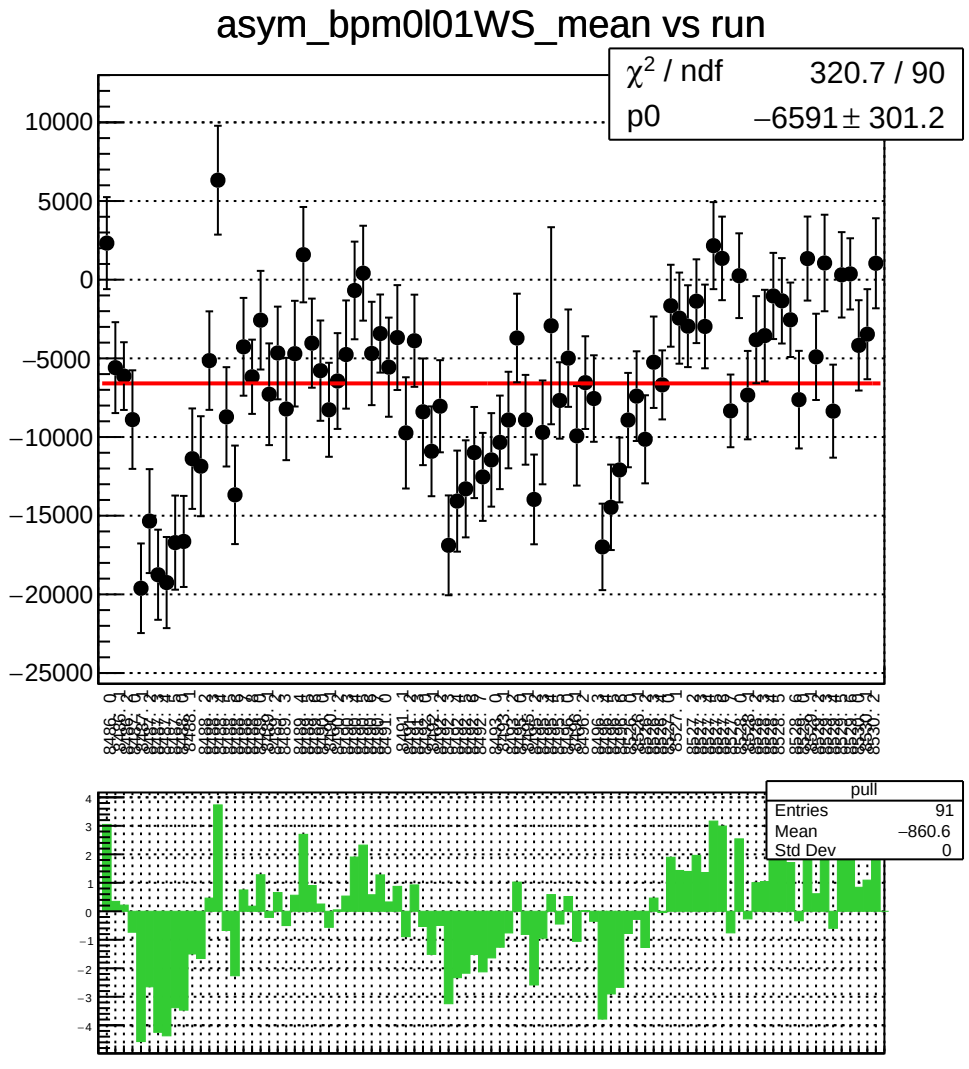

pull1D
Entries 91
Mean −0.0002993
Std Dev 2.156
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

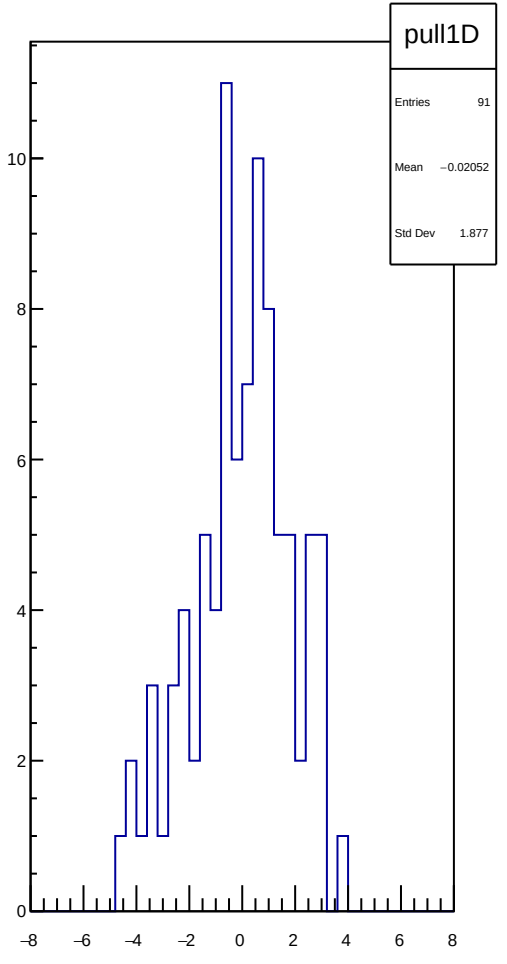

asym_bpm0i01WS_rms vs run
χ^2 / ndf 1.379e+04 / 90
p0 241.5 ± 0.1833
550
500
450
400
350
300
250
200

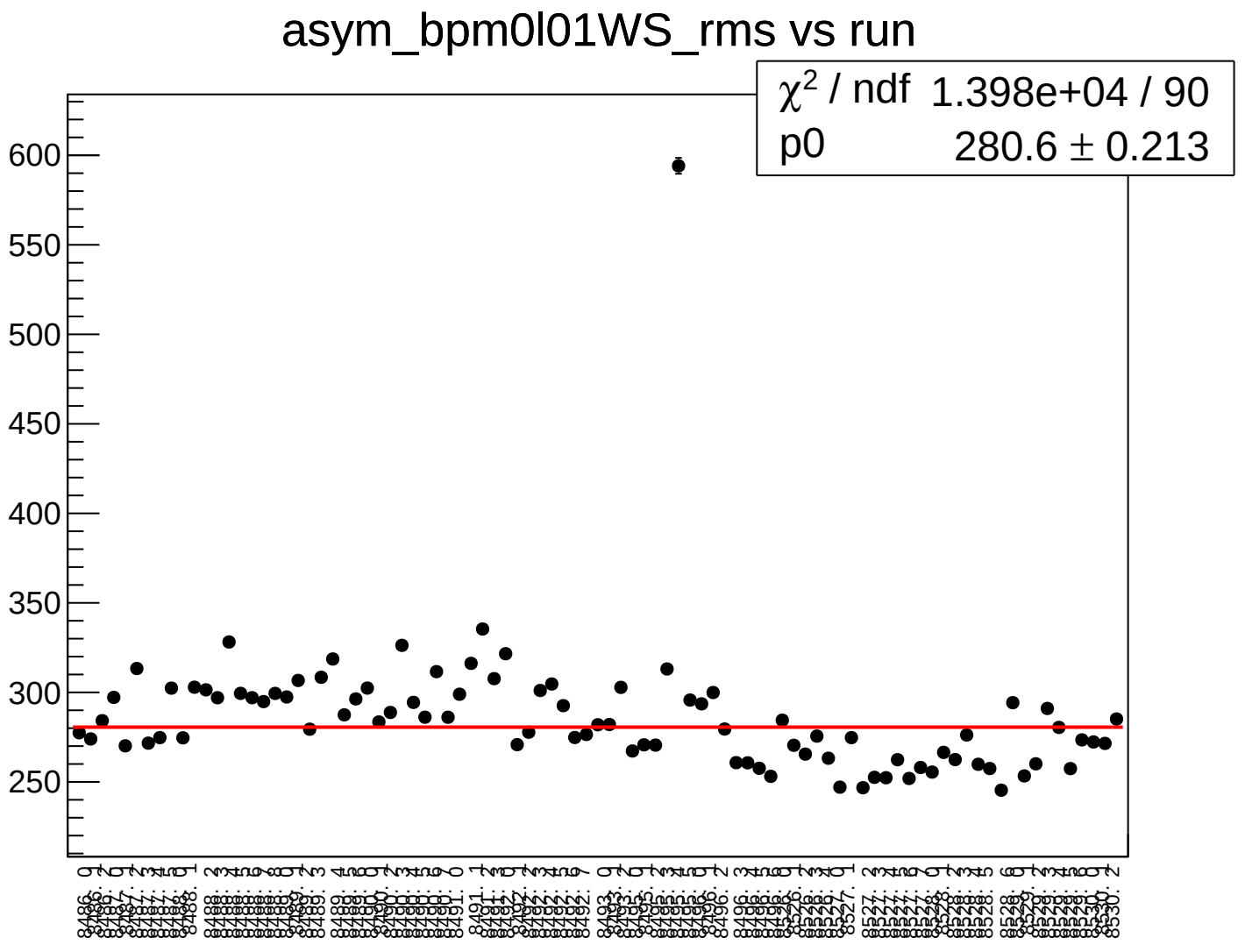

asym_bpm0i01aWS_mean vs run
χ² / ndf 605.1 / 90
p0 −9450 ± 230.9
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 91
Mean −1.979e+06
Std Dev 0
4
2
0
−2
−4
−6

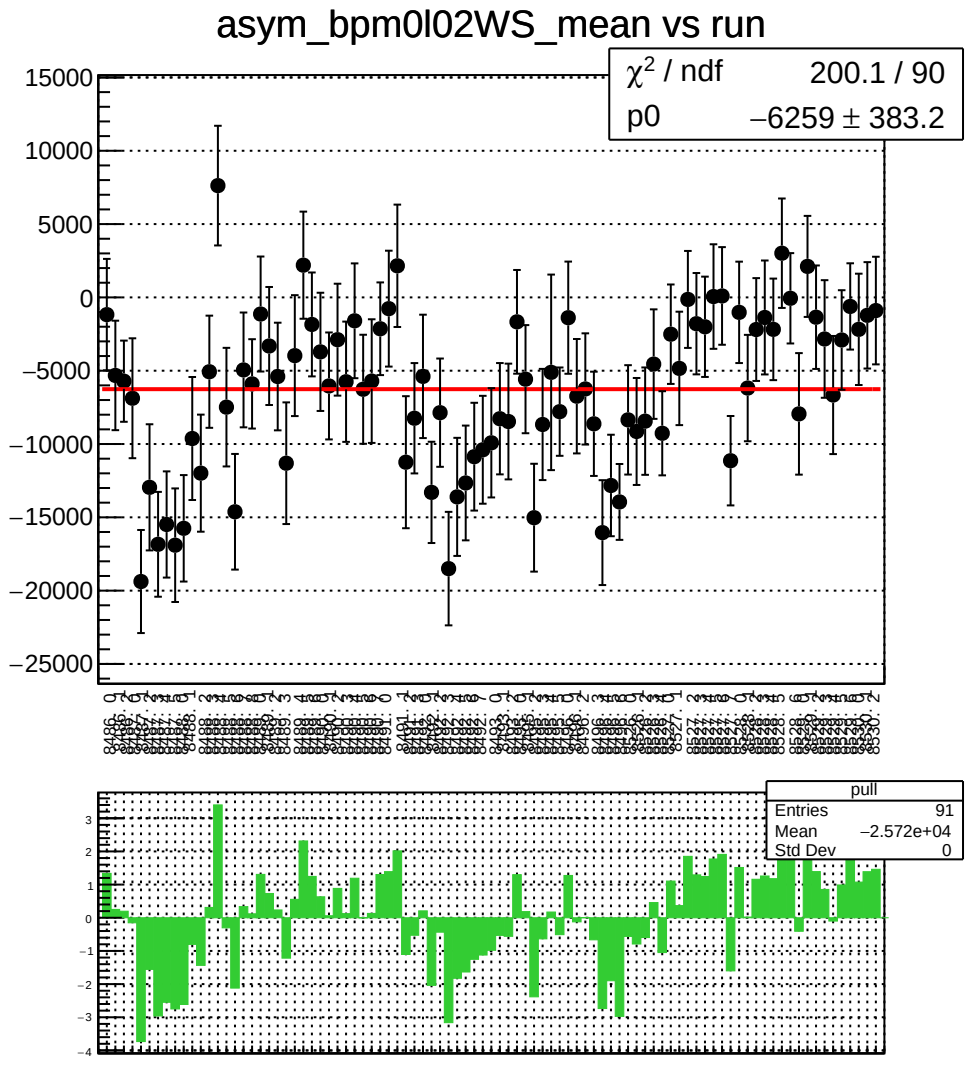

pull1D
Entries 91
Mean −1.374e−05
Std Dev 2.579
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

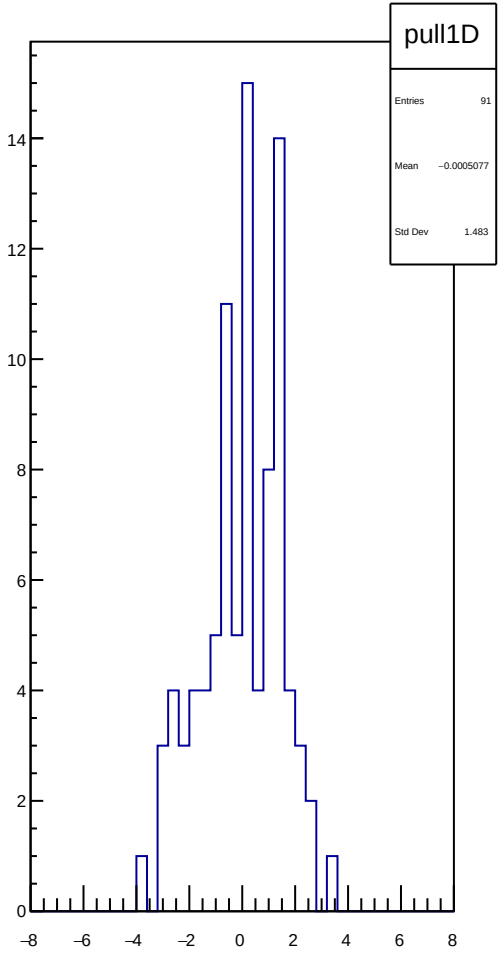

asym_bpm0i01aWS_rms vs run
χ^2 / ndf 1.543e+04 / 90
p0 215 ± 0.1633
550
500
450
400
350
300
250
200
150

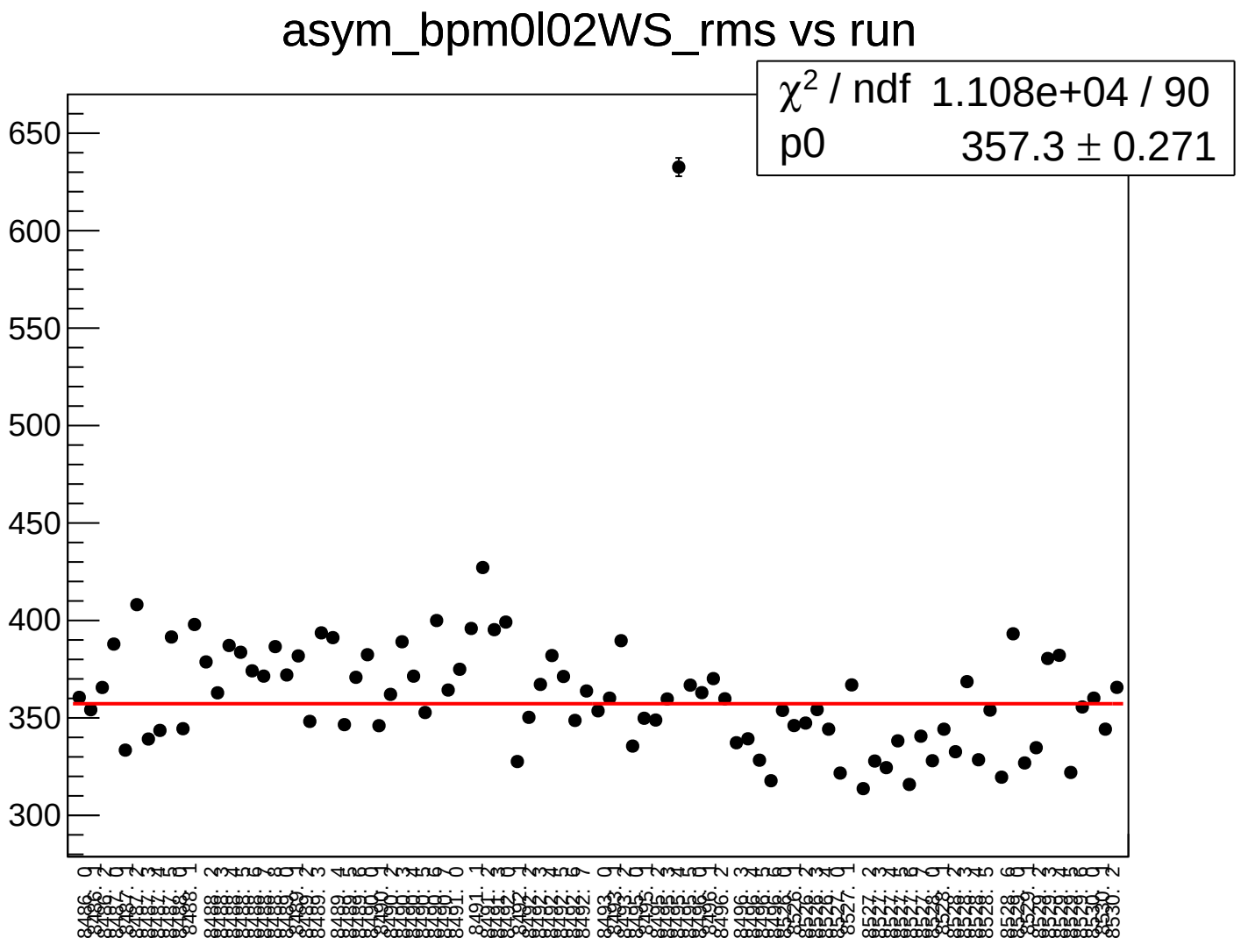

asym_bpm0l01WS_mean vs run
χ² / ndf 320.7 / 90
p0 −6591 ± 301.2
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 91
Mean −860.6
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4

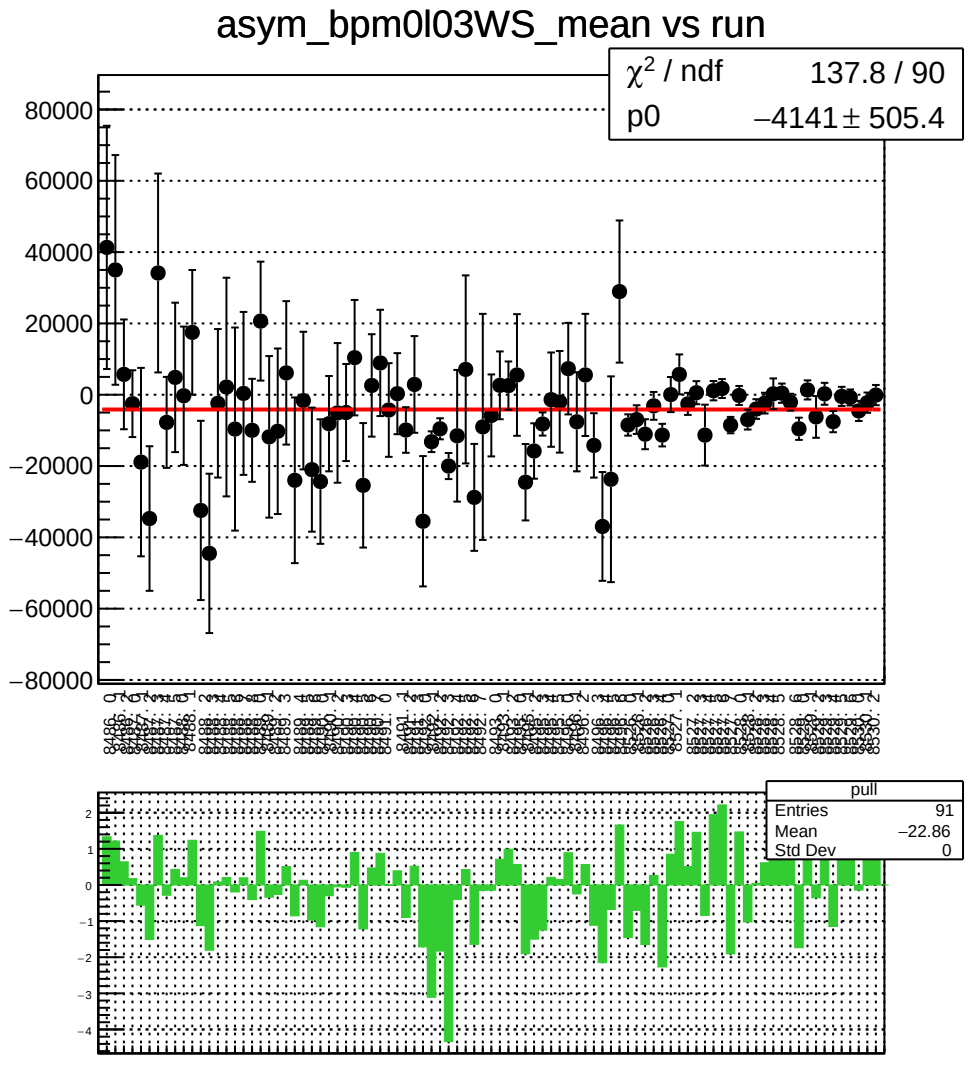

pull1D
Entries 91
Mean −0.02052
Std Dev 1.877
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

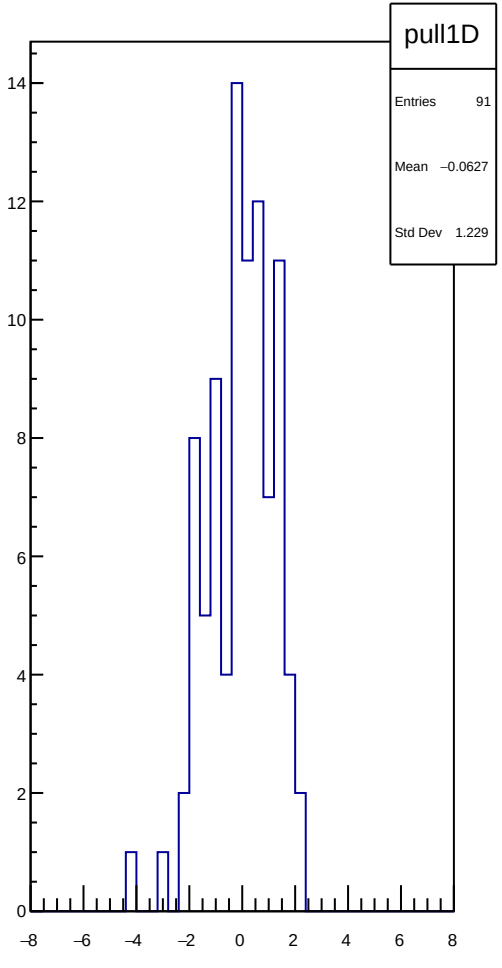

asym_bpm0l01WS_rms vs run
χ^2 / ndf 1.398e+04 / 90
p0 280.6 ± 0.213
600
550
500
450
400
350
300
250

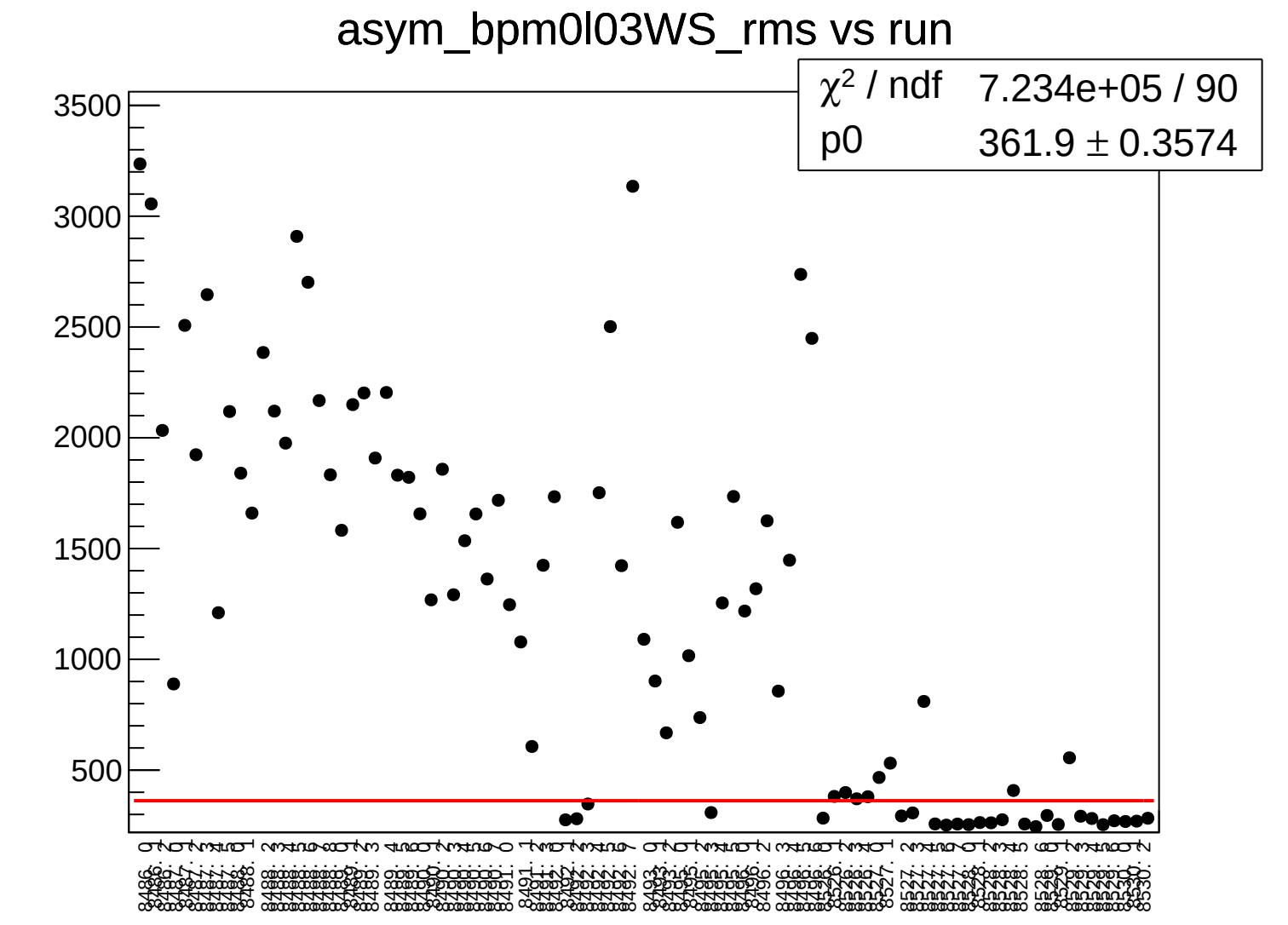

asym_bpm0l02WS_mean vs run
χ² / ndf 200.1 / 90
p0 −6259 ± 383.2
pull
Entries 91
Mean −2.572e+04
Std Dev 0

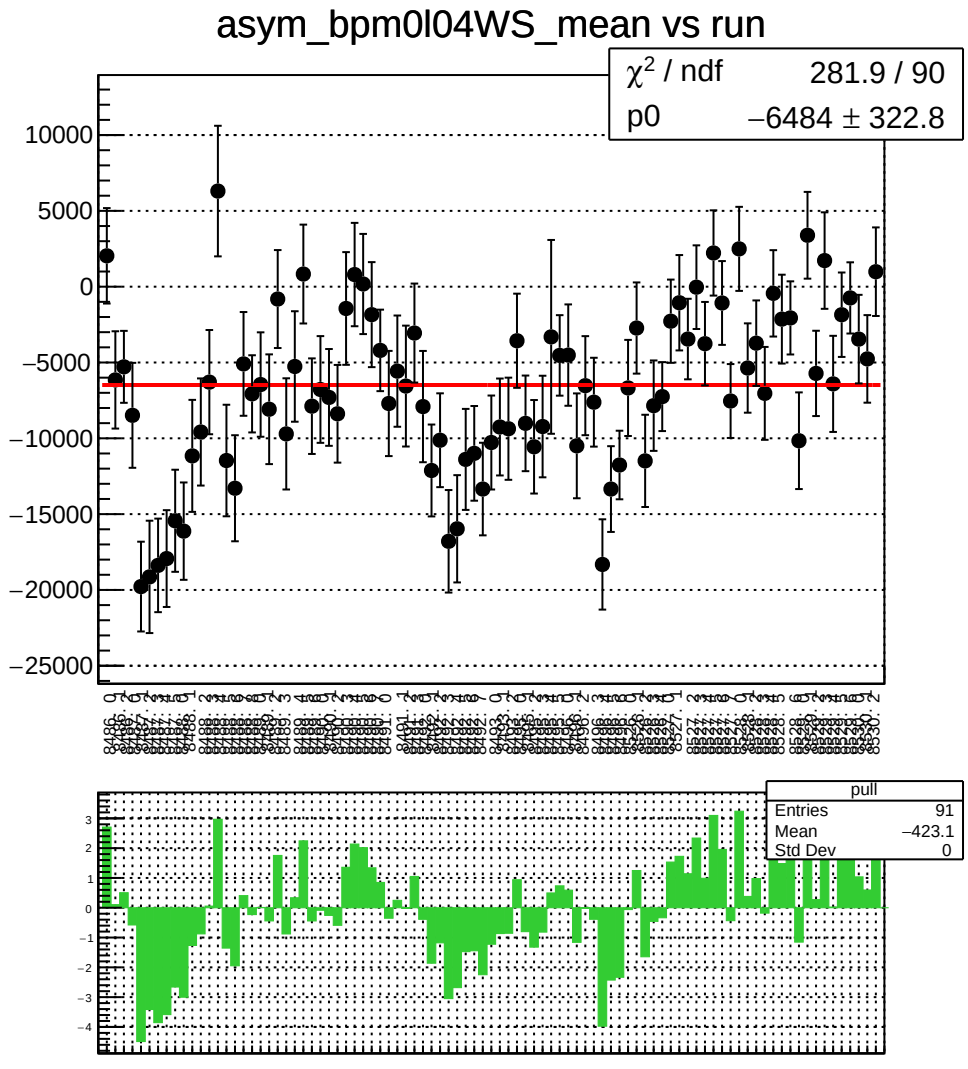

pull1D
Entries 91
Mean −0.0005077
Std Dev 1.483

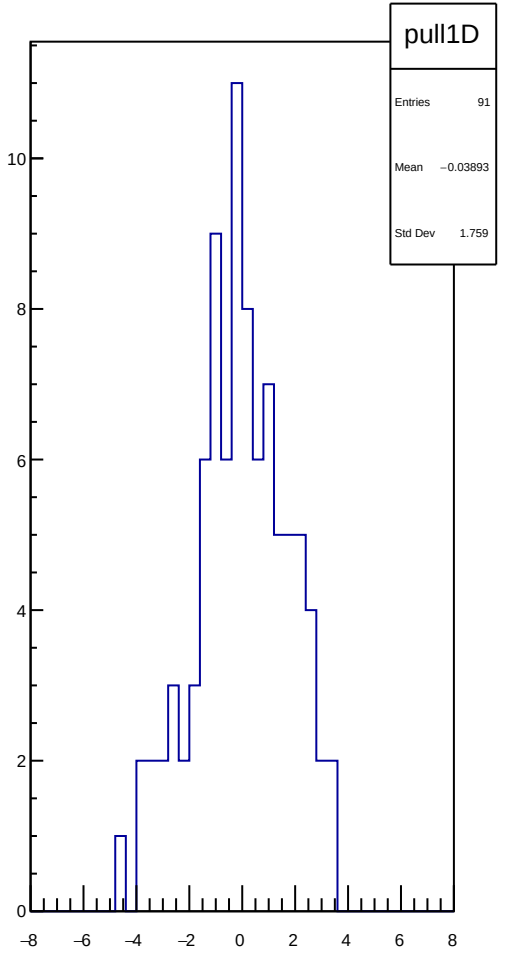

asym_bpm0l02WS_rms vs run
χ² / ndf 1.108e+04 / 90
p0 357.3 ± 0.271
650
600
550
500
450
400
350
300

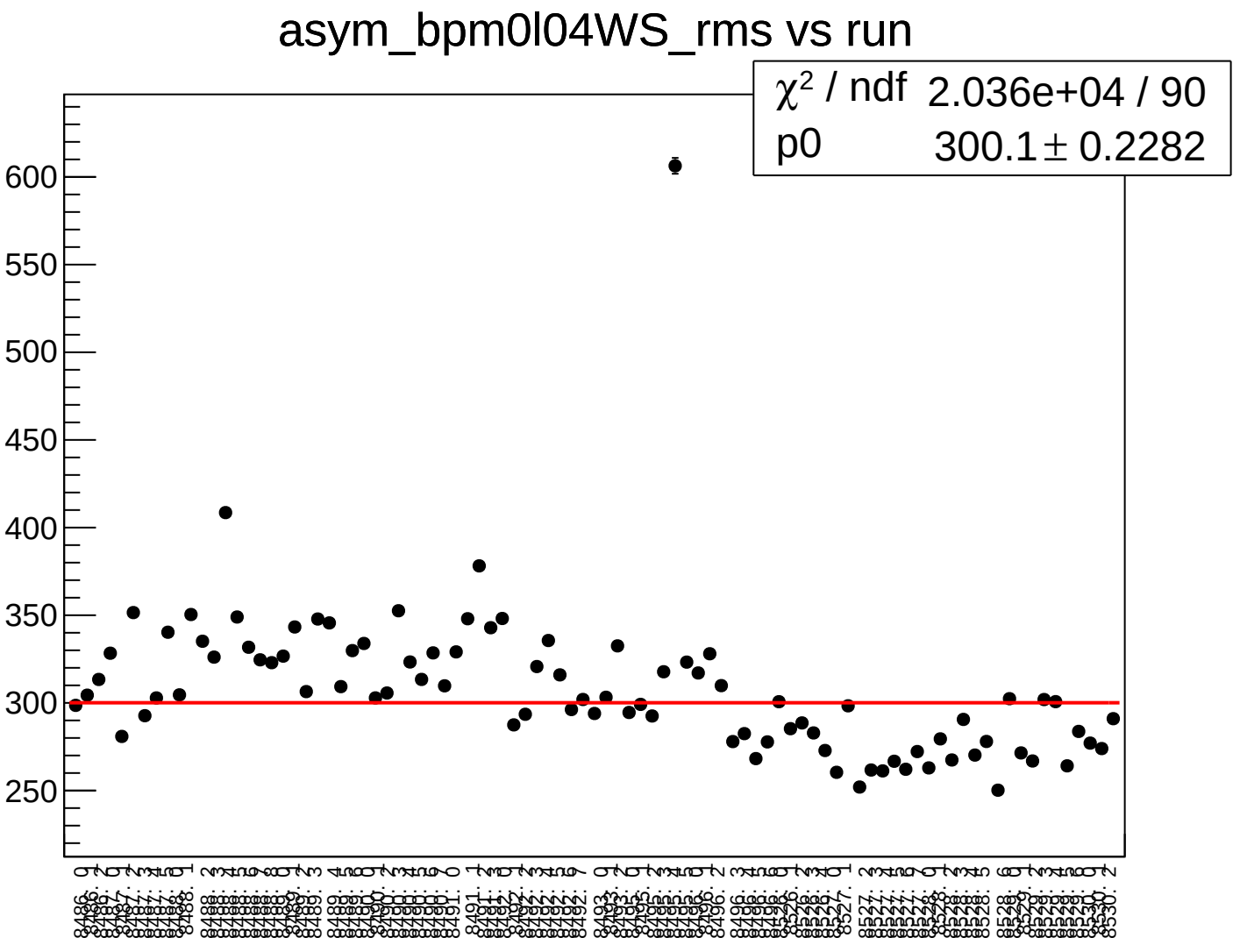

asym_bpm0l03WS_mean vs run
χ² / ndf 137.8 / 90
p0 −4141 ± 505.4
pull
Entries 91
Mean −22.86
Std Dev 0

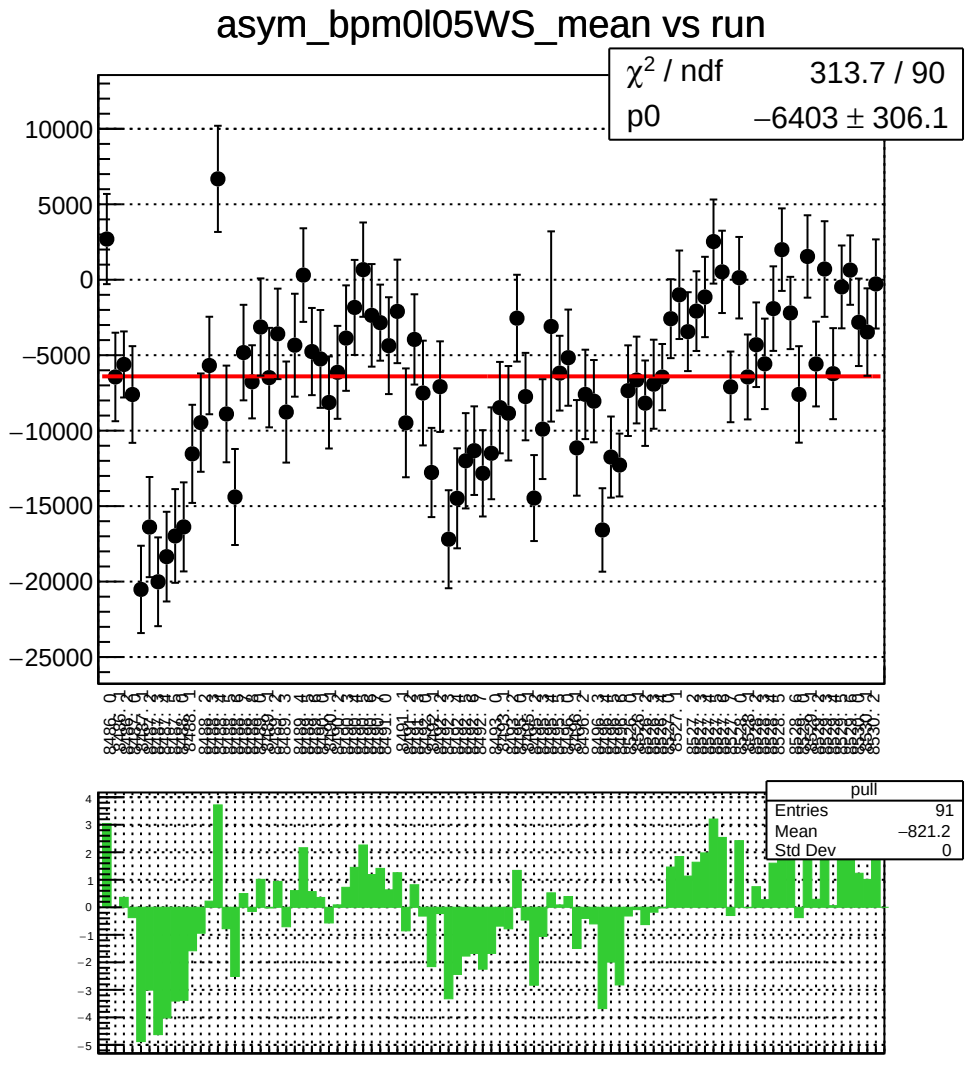

pull1D
Entries 91
Mean −0.0627
Std Dev 1.229

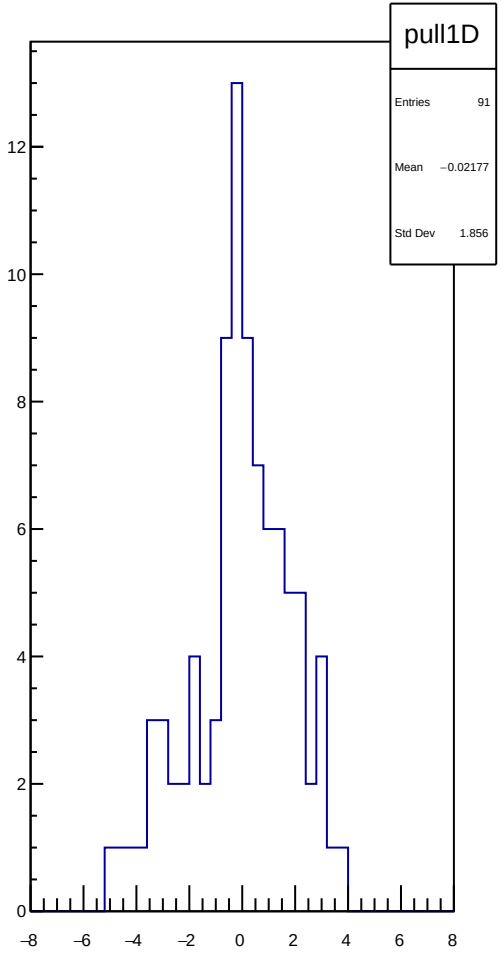

asym_bpm0l03WS_rms vs run
χ^2 / ndf 7.234e+05 / 90
p0 361.9 ± 0.3574
3500
3000
2500
2000
1500
1000
500

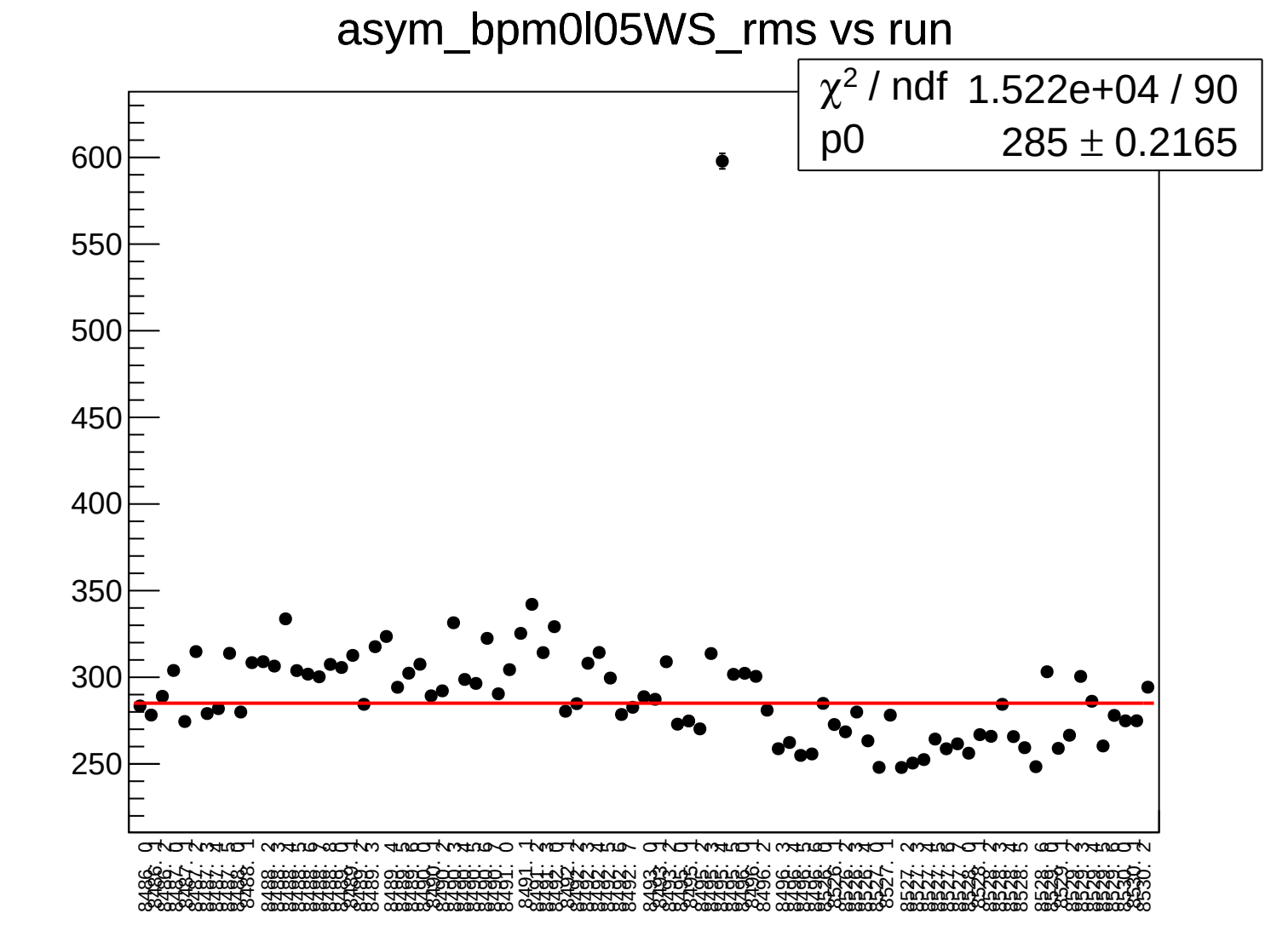

asym_bpm0l04WS_mean vs run
χ² / ndf 281.9 / 90
p0 −6484 ± 322.8
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 91
Mean −423.1
Std Dev 0
3
2
1
0
−1
−2
−3
−4

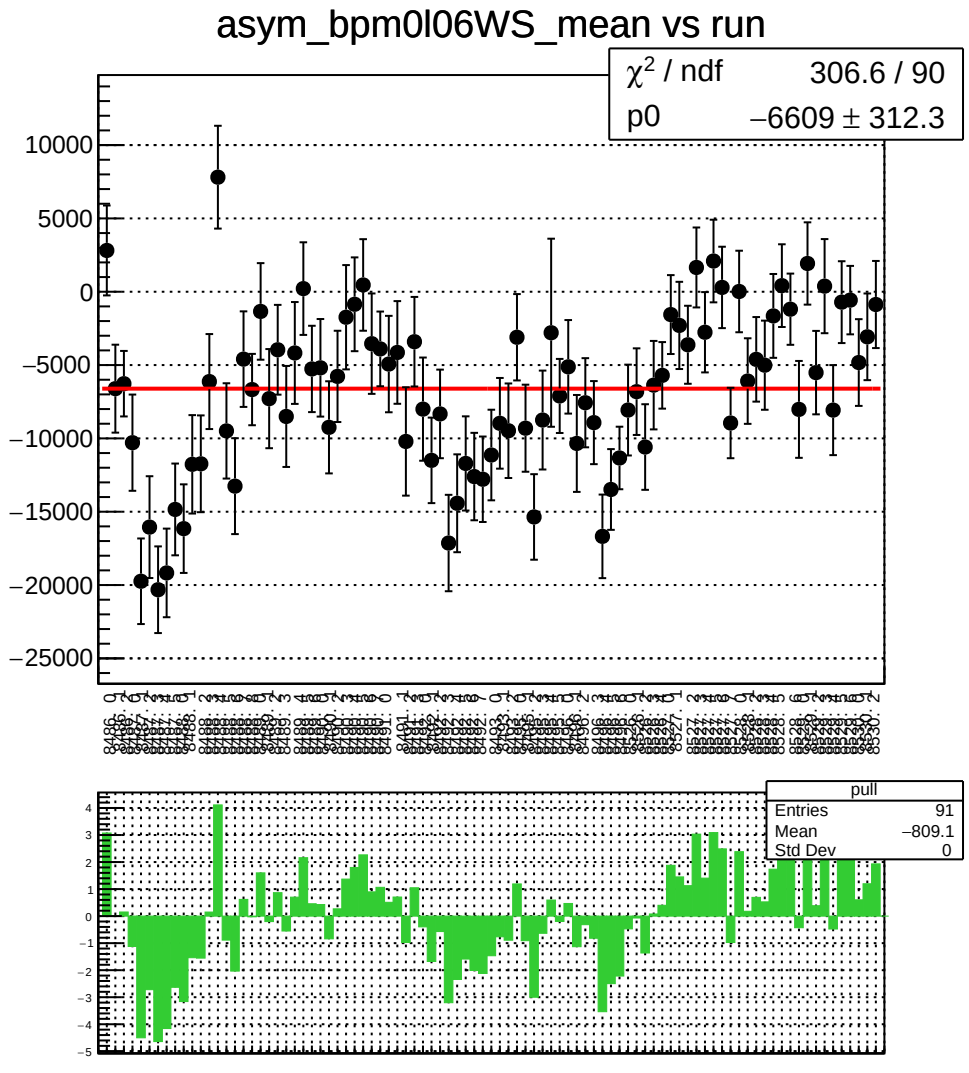

pull1D
Entries 91
Mean −0.03893
Std Dev 1.759
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

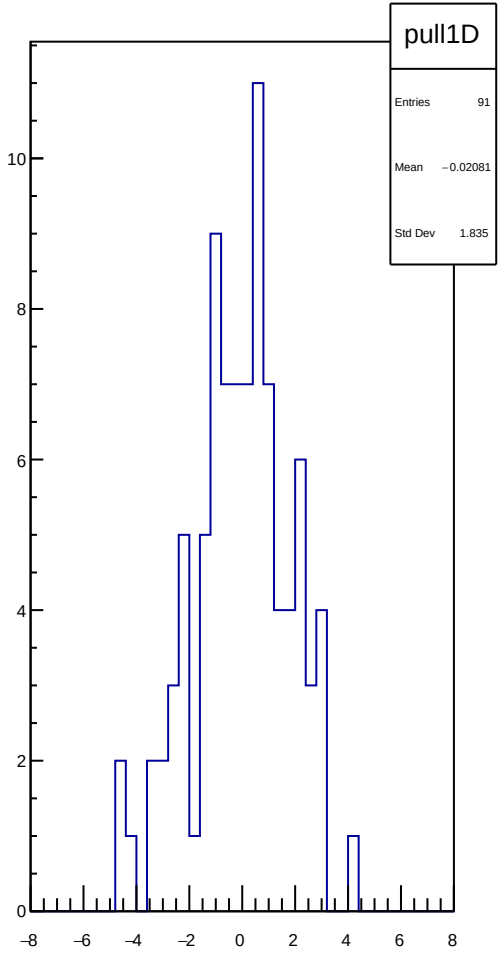

asym_bpm0l04WS_rms vs run
χ² / ndf 2.036e+04 / 90
p0 300.1 ± 0.2282
600
550
500
450
400
350
300
250

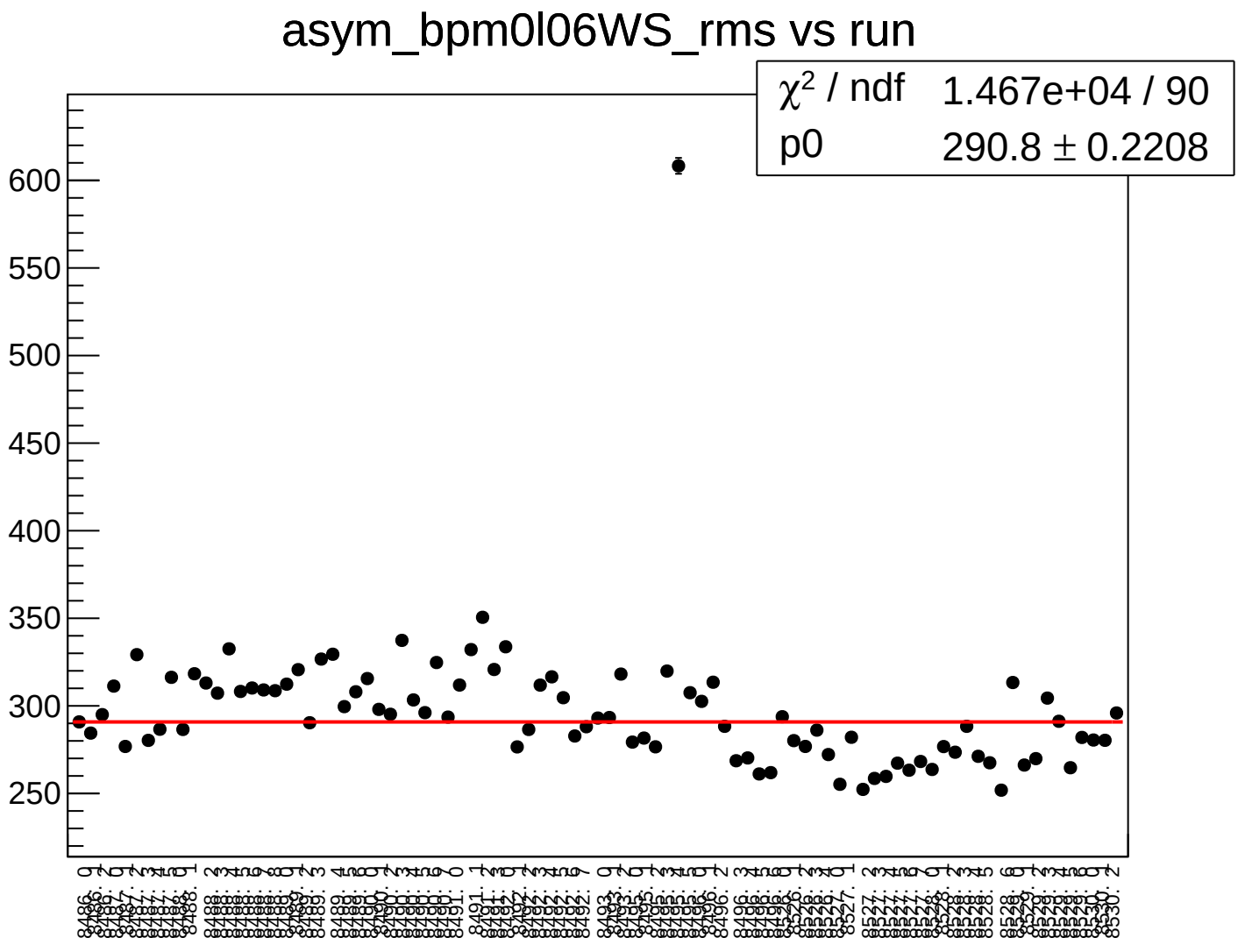

asym_bpm0l05WS_mean vs run
χ² / ndf 313.7 / 90
p0 −6403 ± 306.1
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 91
Mean −821.2
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4
−5

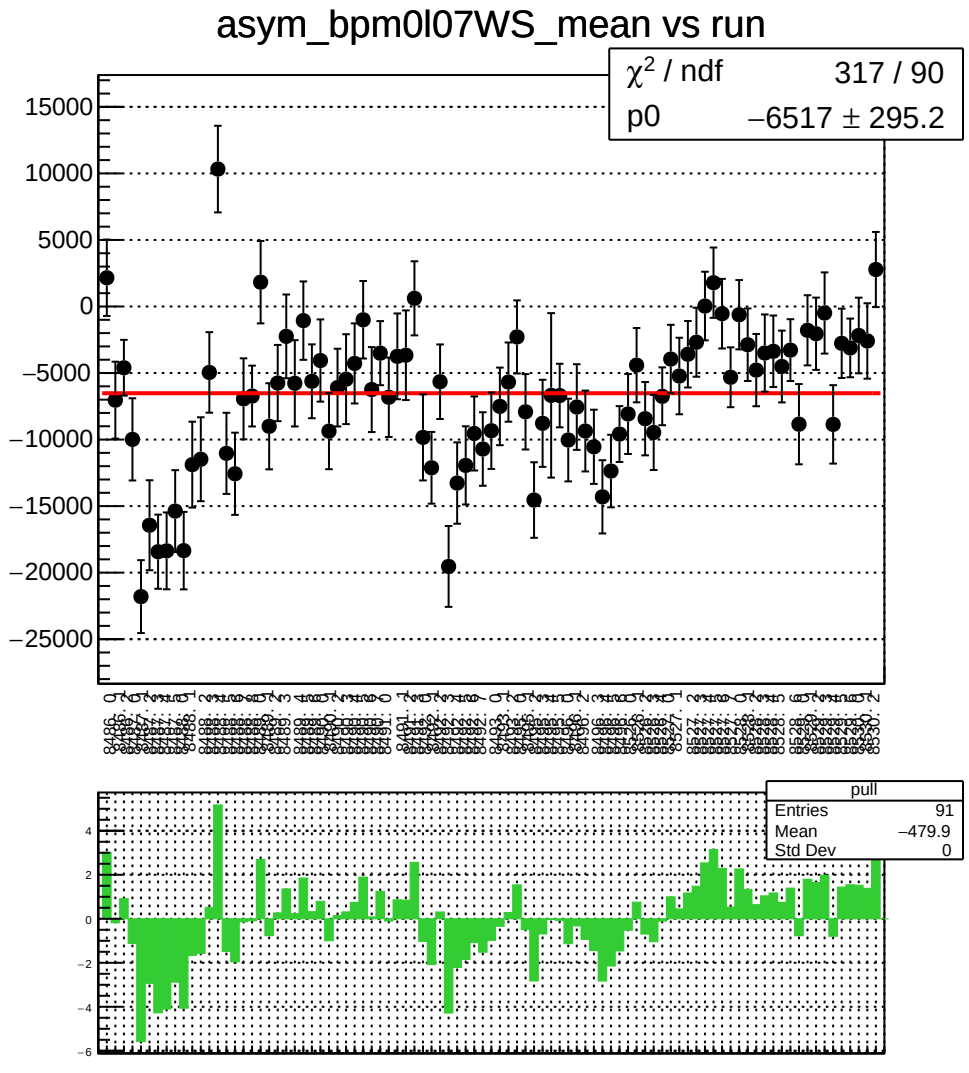

pull1D
Entries 91
Mean −0.02177
Std Dev 1.856
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

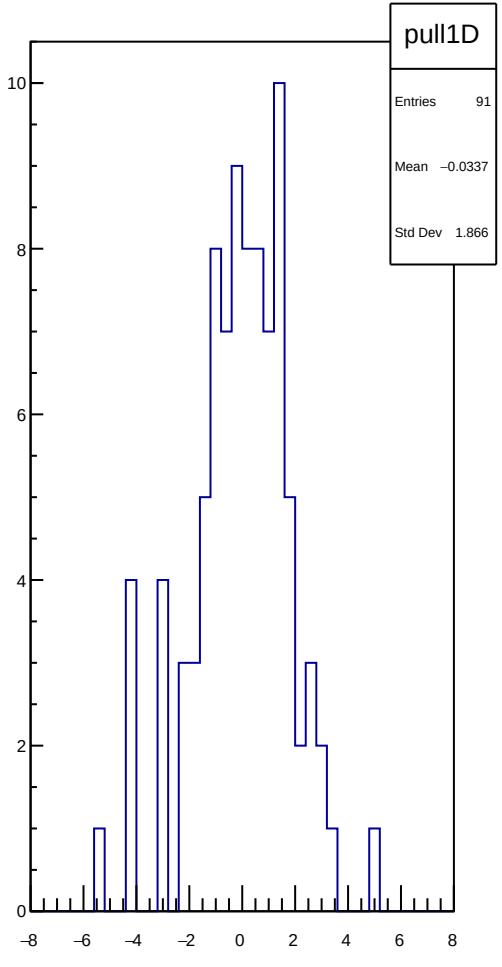

asym_bpm0l05WS_rms vs run
χ^2 / ndf 1.522e+04 / 90
p0 285 ± 0.2165
600
550
500
450
400
350
300
250

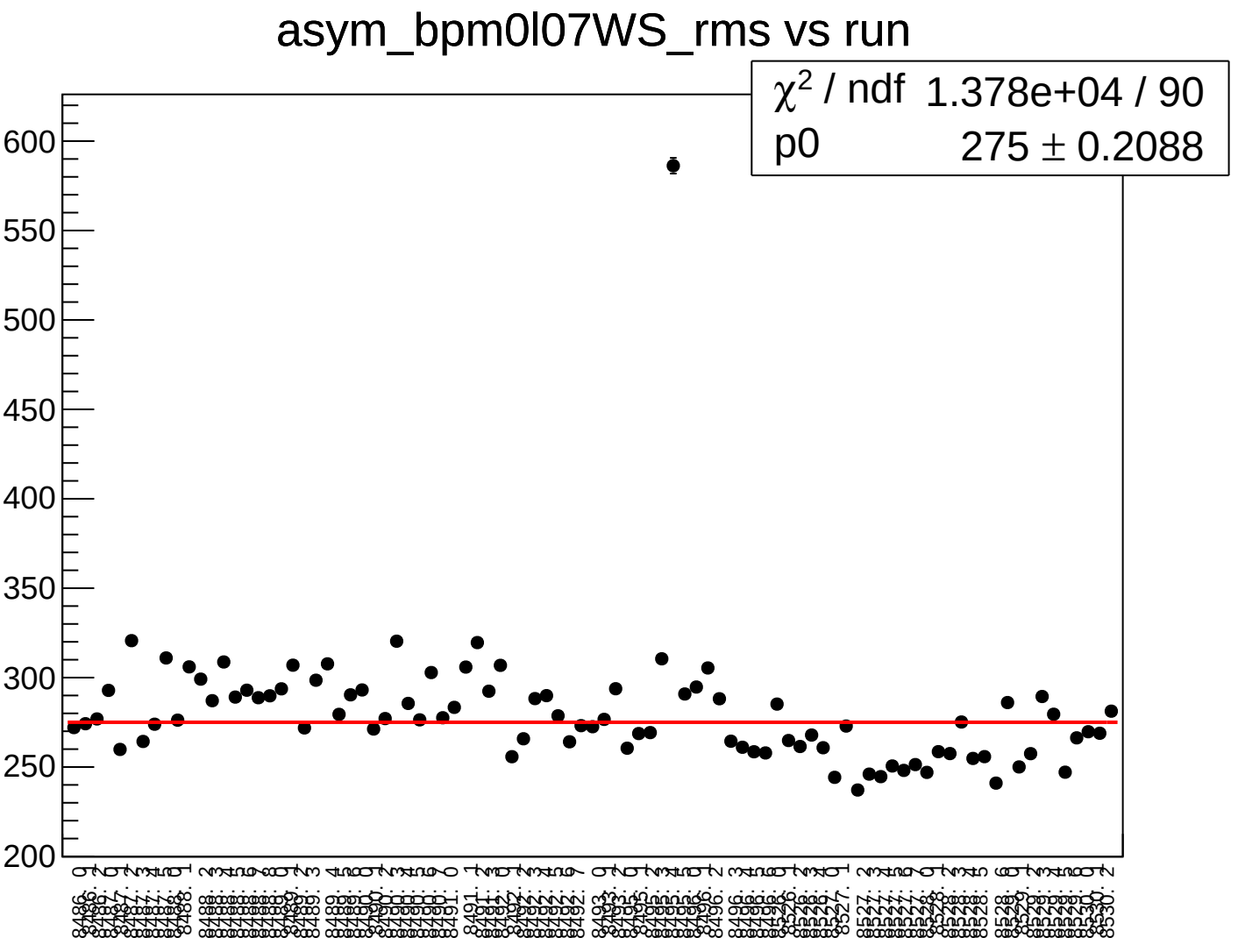

asym_bpm0l06WS_mean vs run
χ² / ndf 306.6 / 90
p0 −6609 ± 312.3
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 91
Mean −809.1
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4
−5

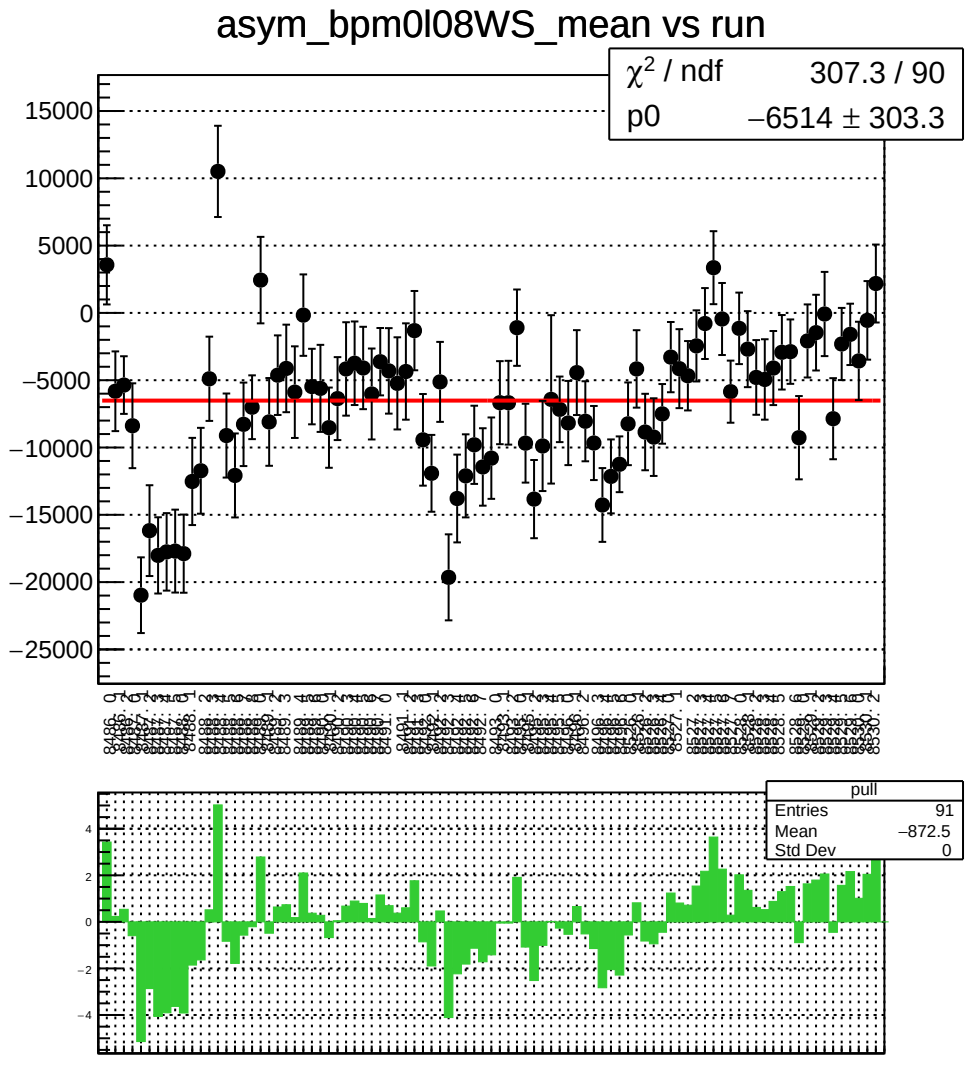

pull1D
Entries 91
Mean −0.02081
Std Dev 1.835
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

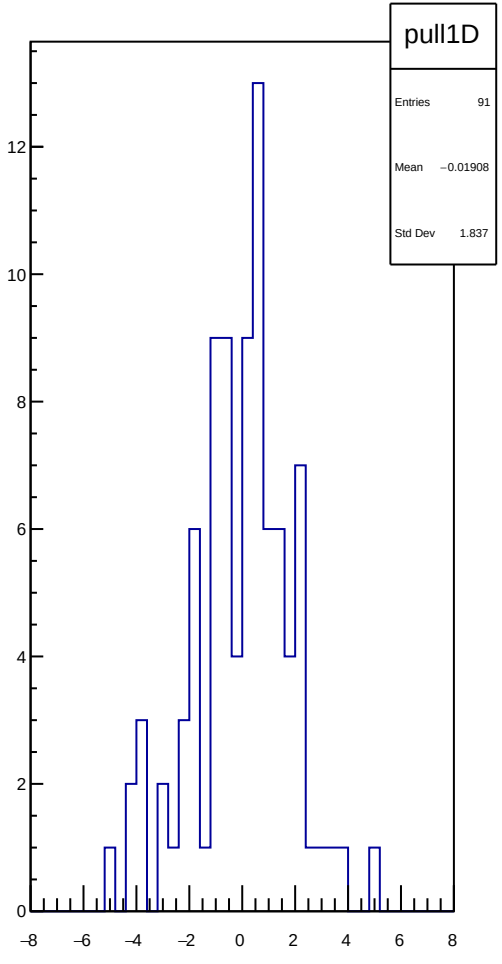

asym_bpm0l06WS_rms vs run
χ^2 / ndf 1.467e+04 / 90
p0 290.8 ± 0.2208
600
550
500
450
400
350
300
250

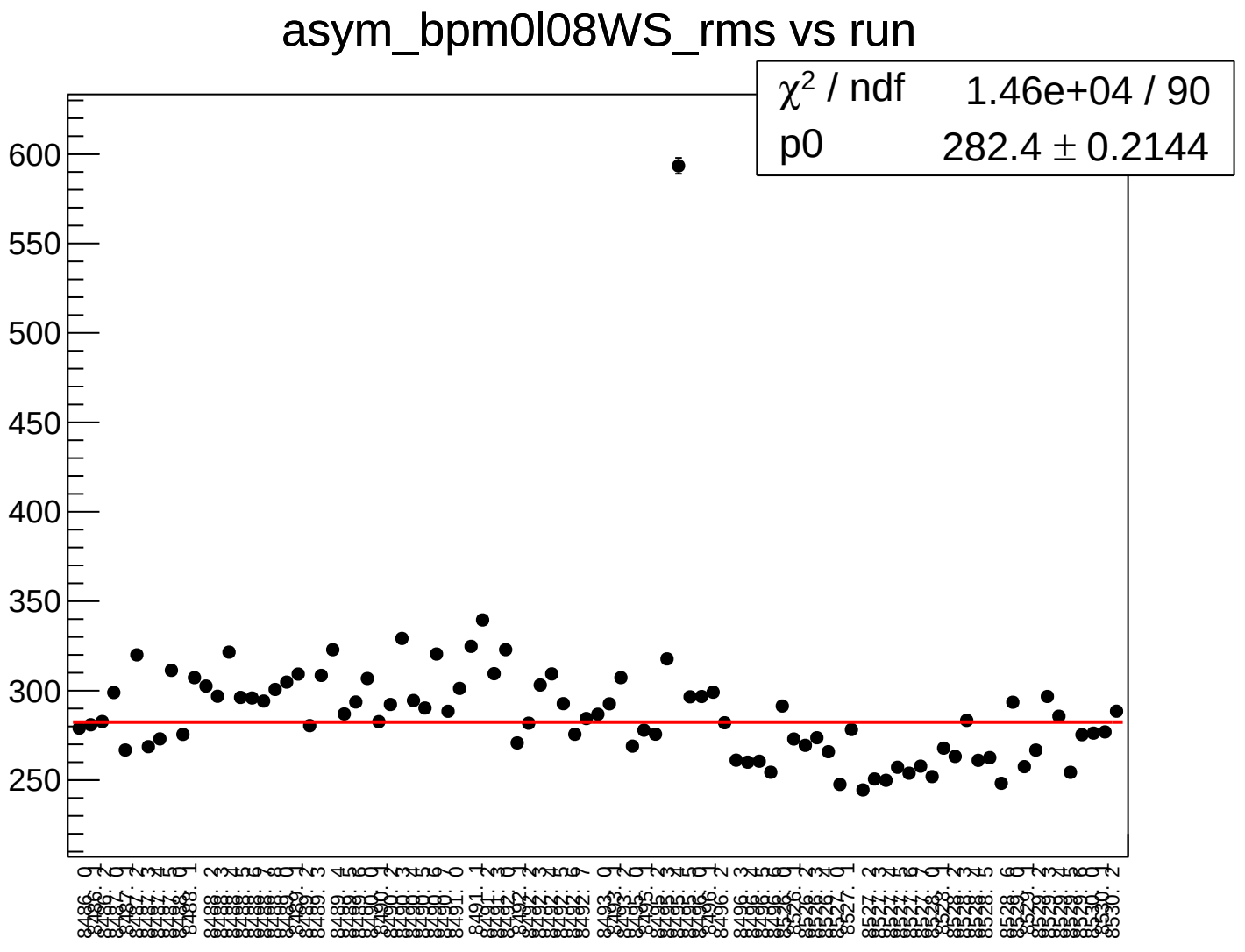

asym_bpm0l07WS_mean vs run
χ² / ndf 317 / 90
p0 −6517 ± 295.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 91
Mean −479.9
Std Dev 0
4
2
0
−2
−4
−6

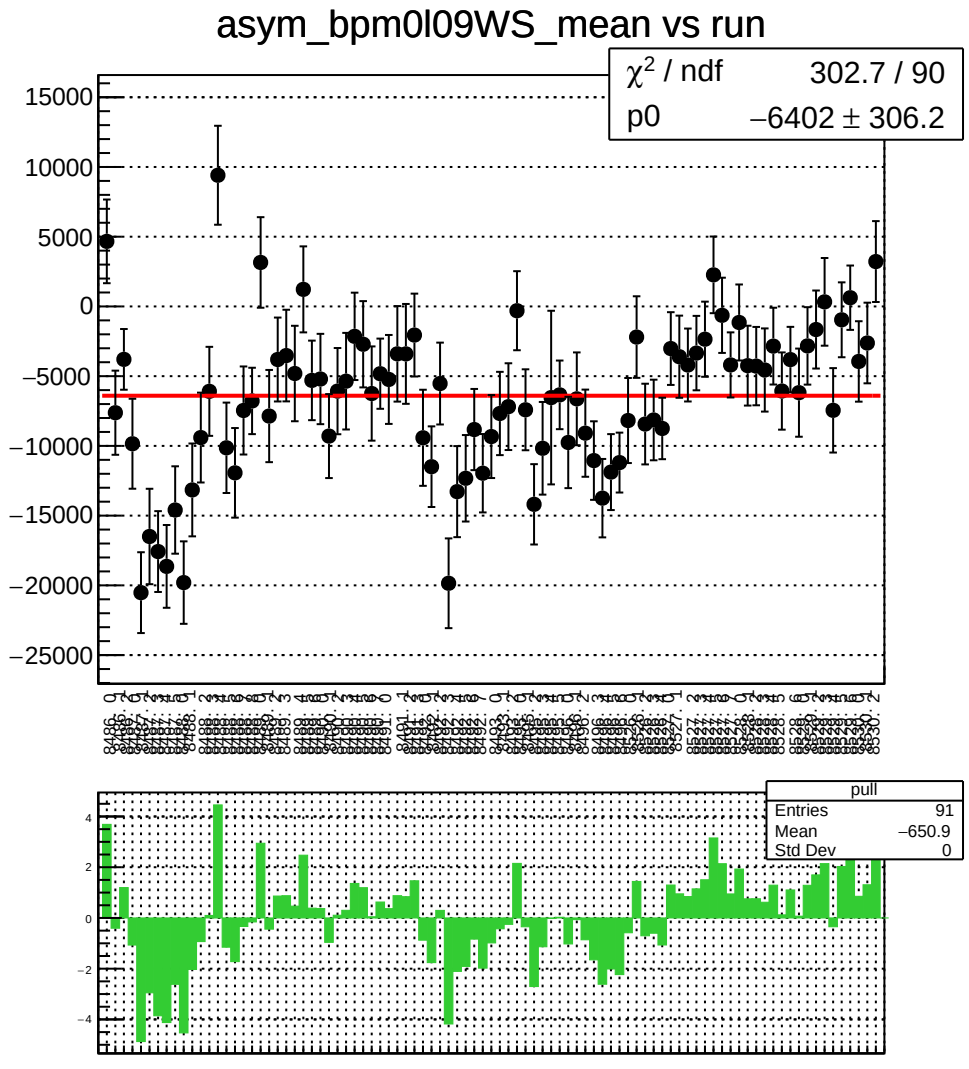

pull1D
Entries 91
Mean −0.0337
Std Dev 1.866
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

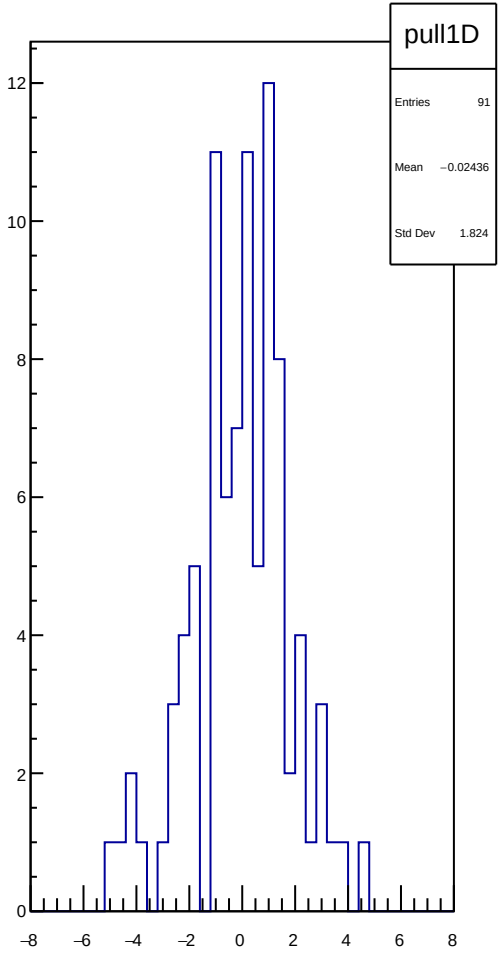

asym_bpm0l07WS_rms vs run
χ^2 / ndf 1.378e+04 / 90
p0 275 ± 0.2088
600
550
500
450
400
350
300
250
200

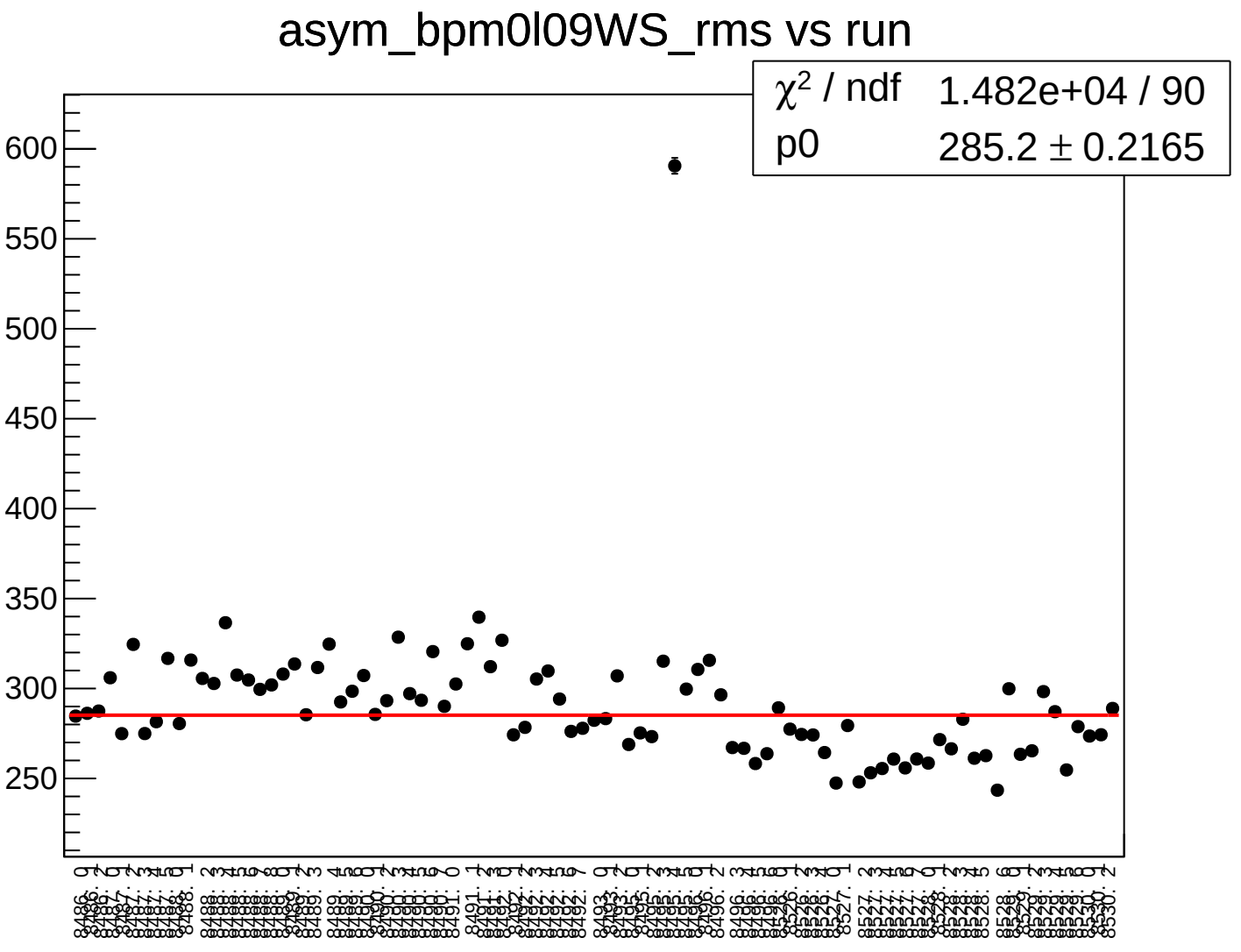

asym_bpm0l08WS_mean vs run
χ² / ndf 307.3 / 90
p0 −6514 ± 303.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 91
Mean −872.5
Std Dev 0
4
2
0
−2
−4

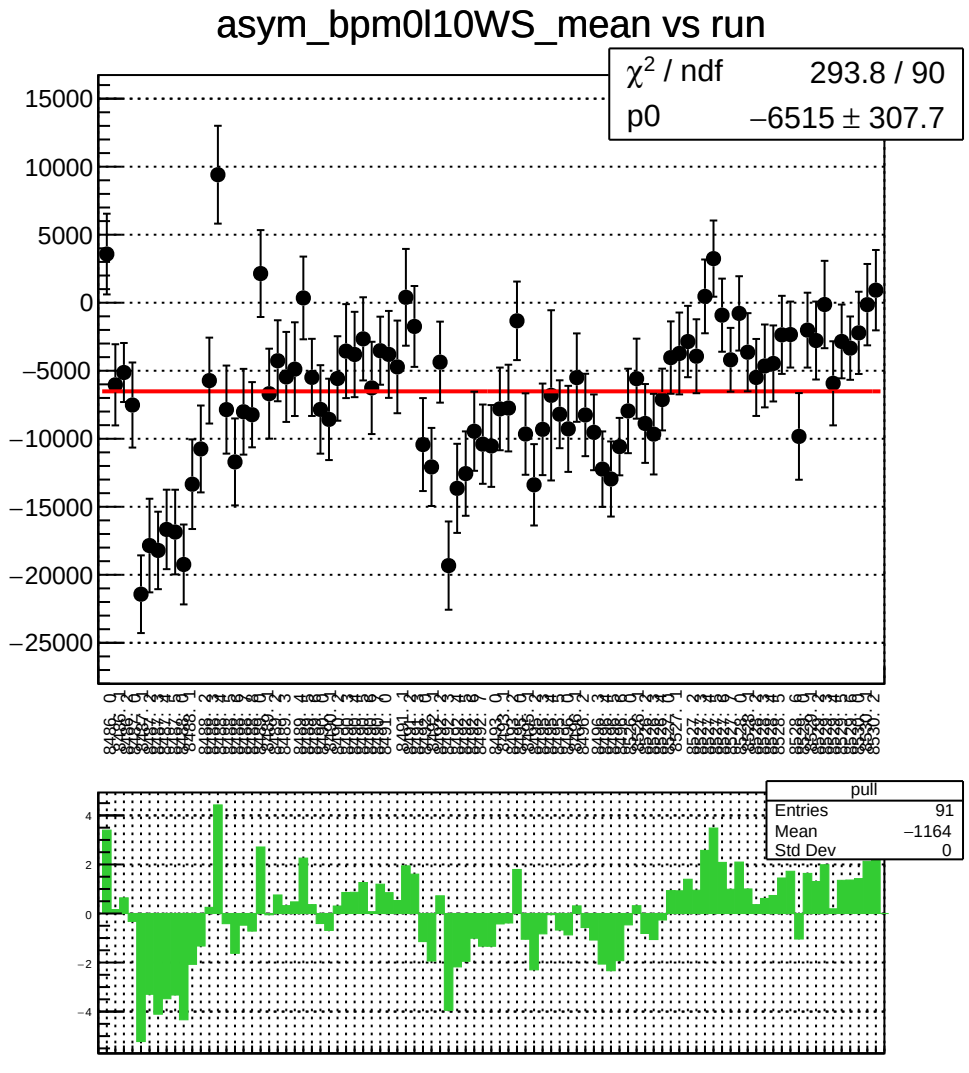

pull1D
Entries 91
Mean −0.01908
Std Dev 1.837
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

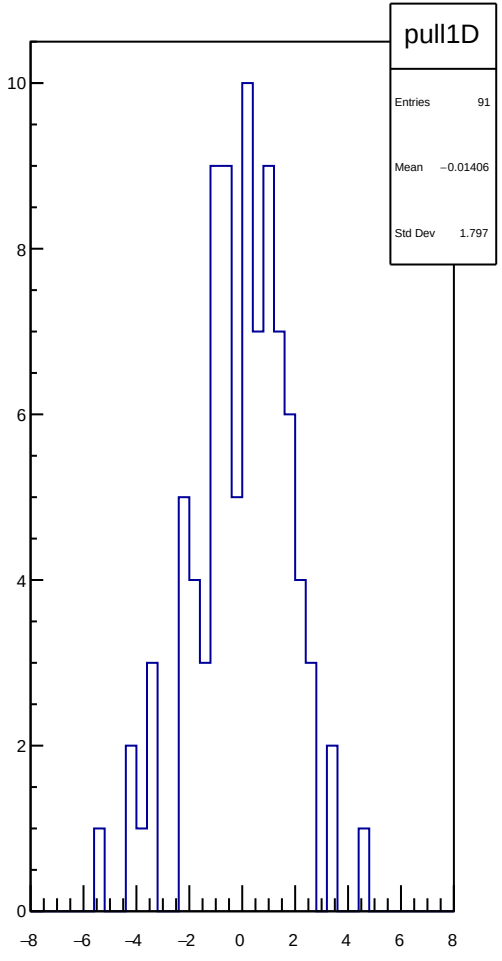

asym_bpm0l08WS_rms vs run
χ² / ndf 1.46e+04 / 90
p0 282.4 ± 0.2144
600
550
500
450
400
350
300
250

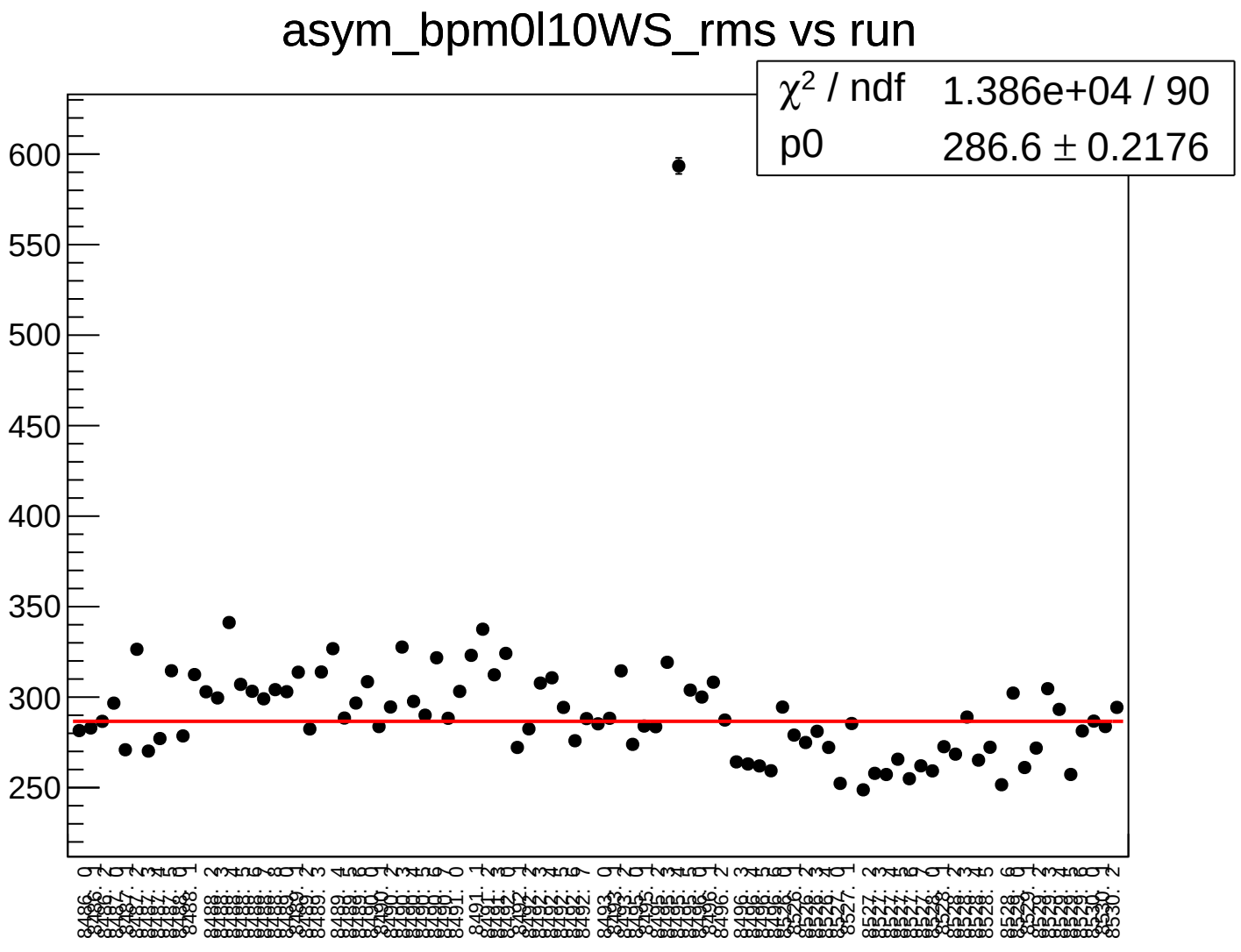

asym_bpm0l09WS_mean vs run
χ² / ndf 302.7 / 90
p0 −6402 ± 306.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 91
Mean −650.9
Std Dev 0
4
2
0
−2
−4

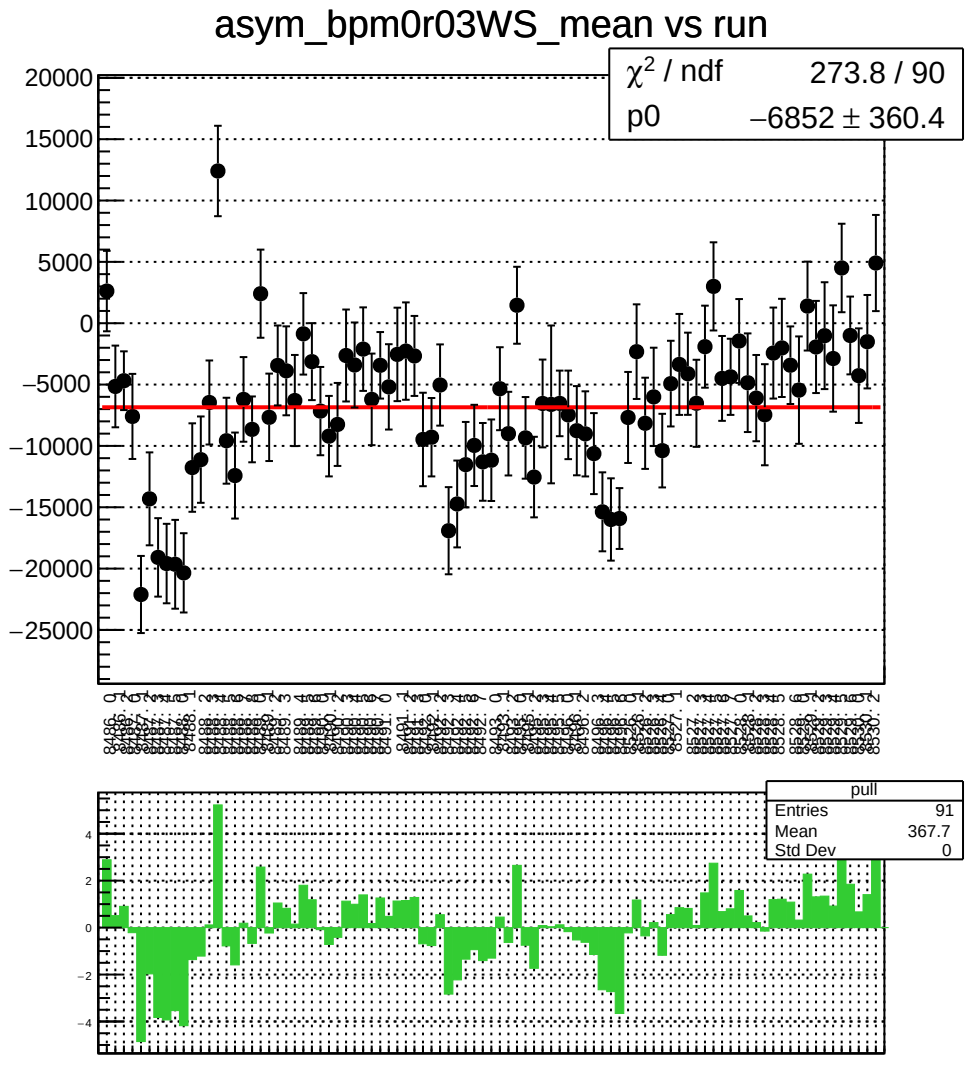

pull1D
Entries 91
Mean −0.02436
Std Dev 1.824
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

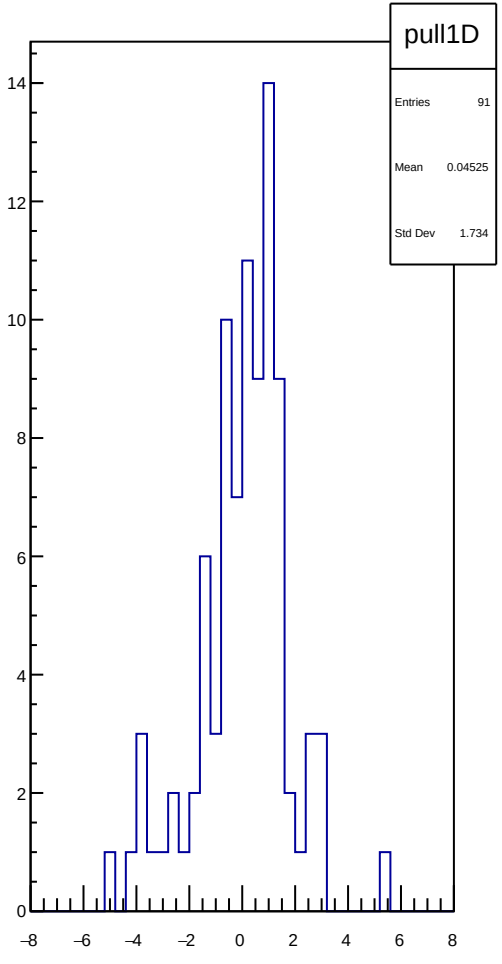

asym_bpm0l09WS_rms vs run
χ² / ndf 1.482e+04 / 90
p0 285.2 ± 0.2165
600
550
500
450
400
350
300
250

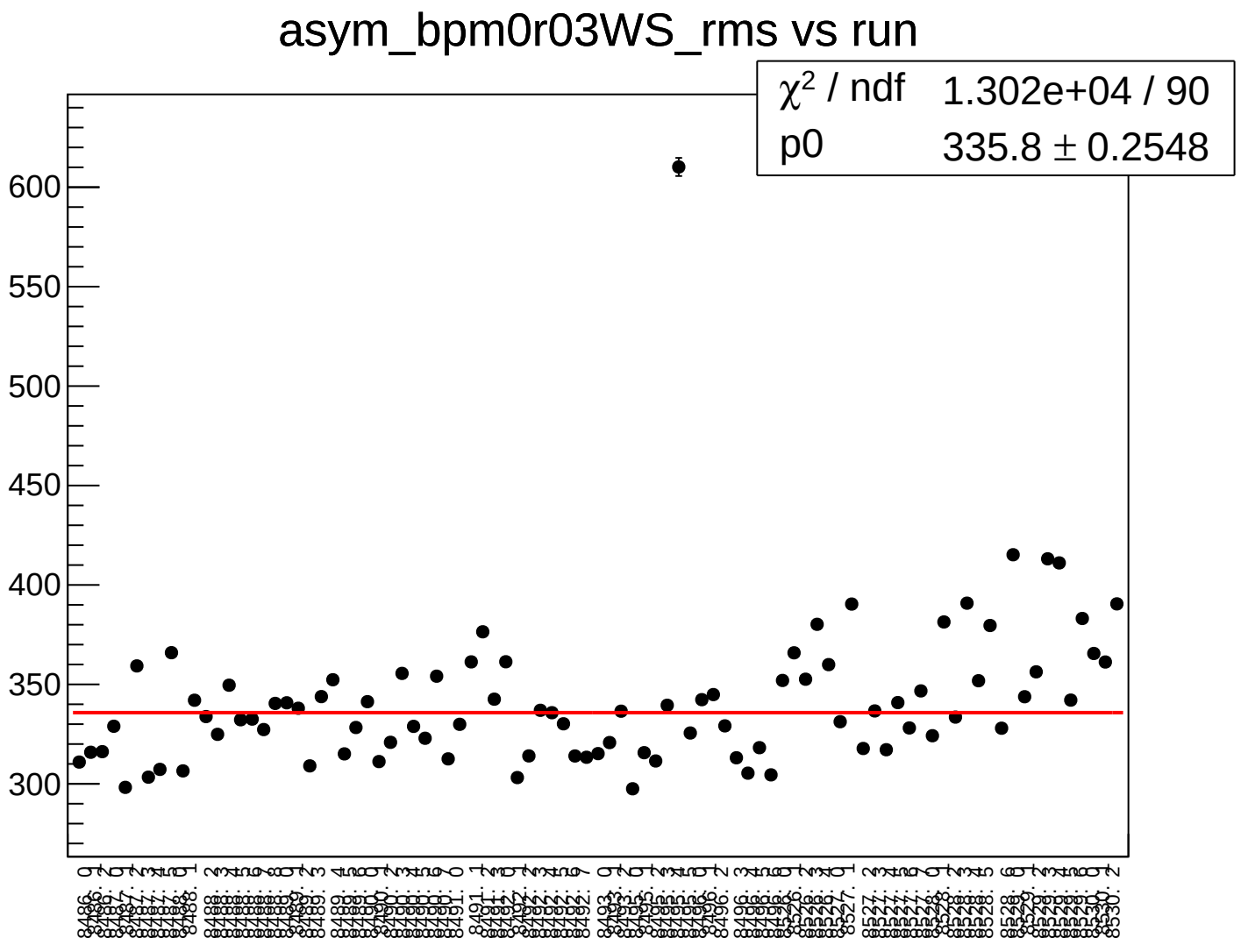

asym_bpm0l10WS_mean vs run
χ² / ndf 293.8 / 90
p0 −6515 ± 307.7
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 91
Mean −1164
Std Dev 0
4
2
0
−2
−4

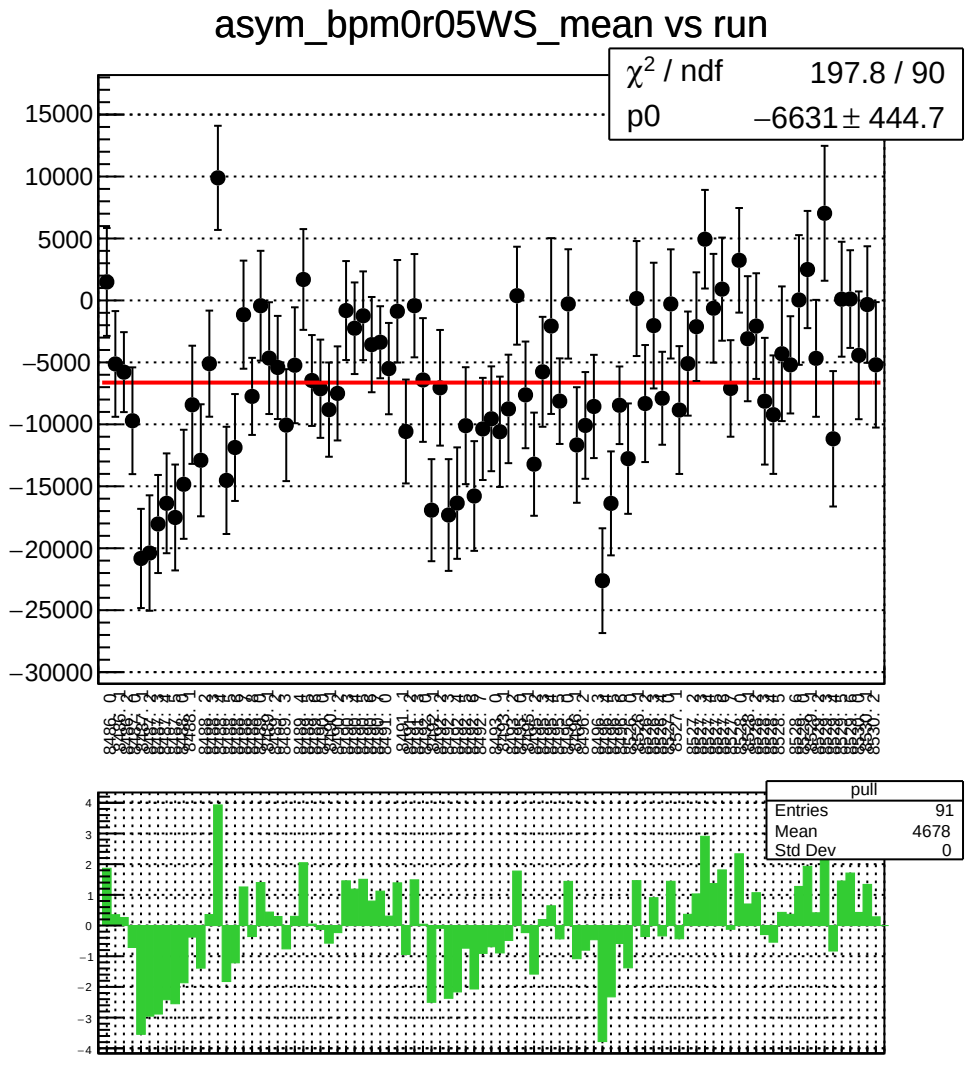

pull1D
Entries 91
Mean −0.01406
Std Dev 1.797
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

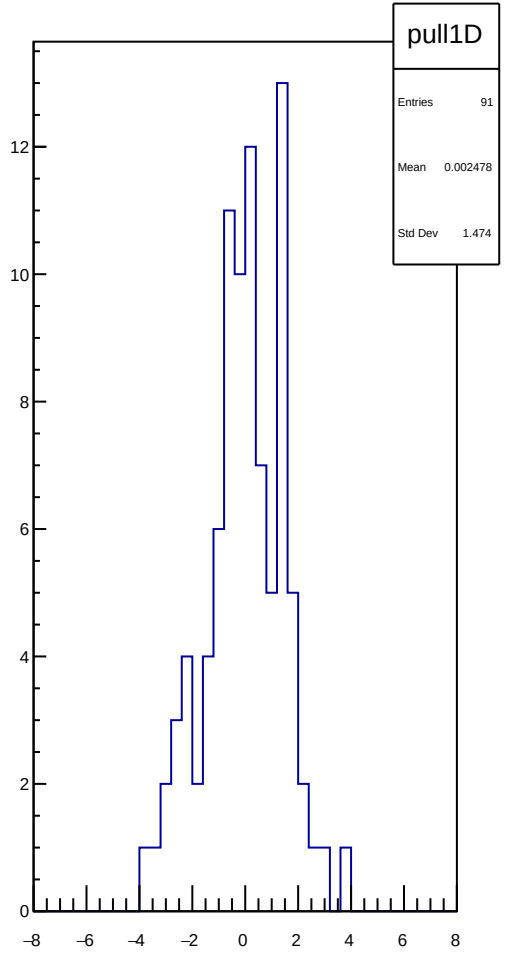

asym_bpm0l10WS_rms vs run
χ^2 / ndf 1.386e+04 / 90
p0 286.6 ± 0.2176
600
550
500
450
400
350
300
250

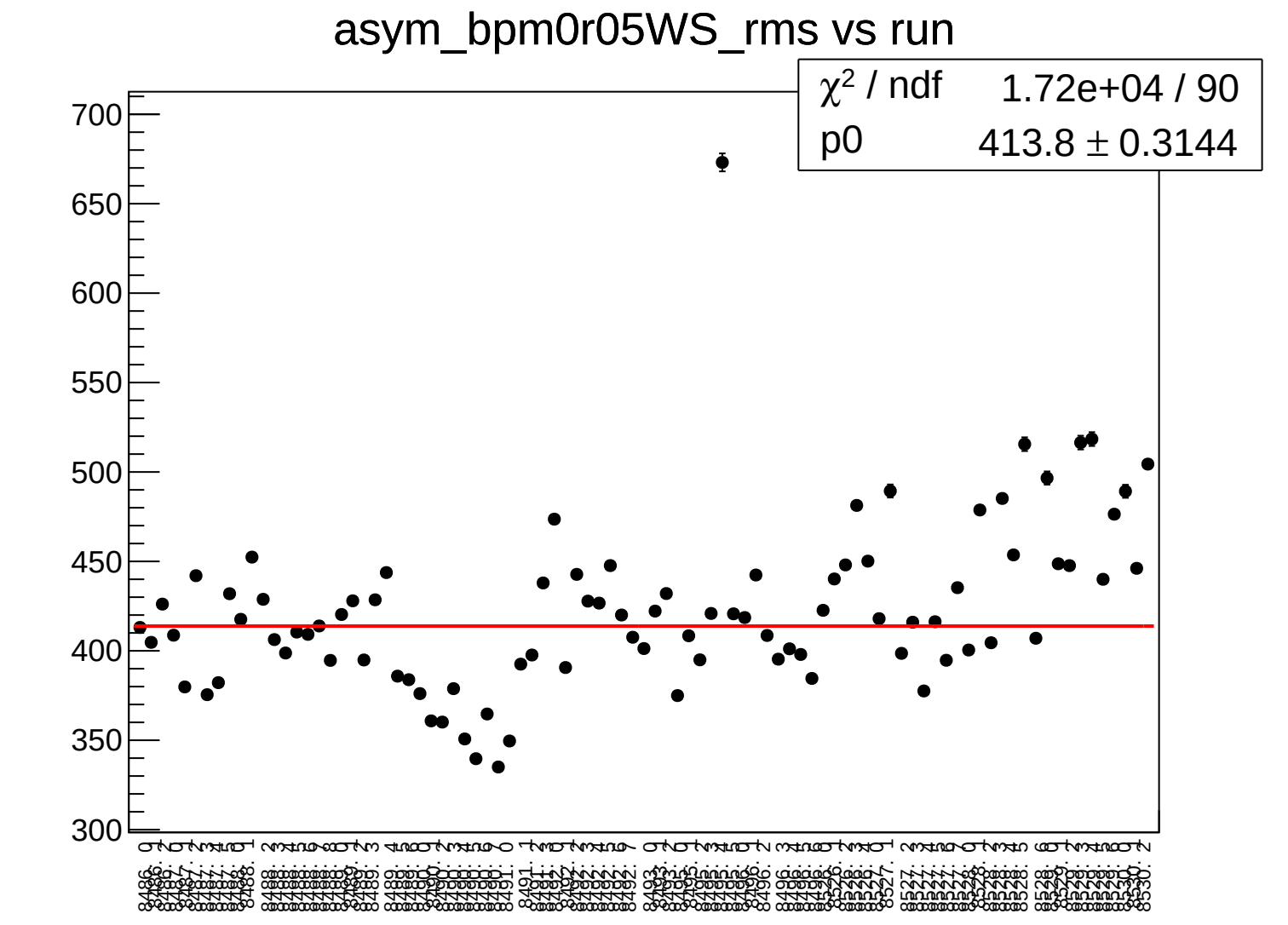

asym_bpm0r03WS_mean vs run
χ² / ndf 273.8 / 90
p0 −6852 ± 360.4
pull
Entries 91
Mean 367.7
Std Dev 0

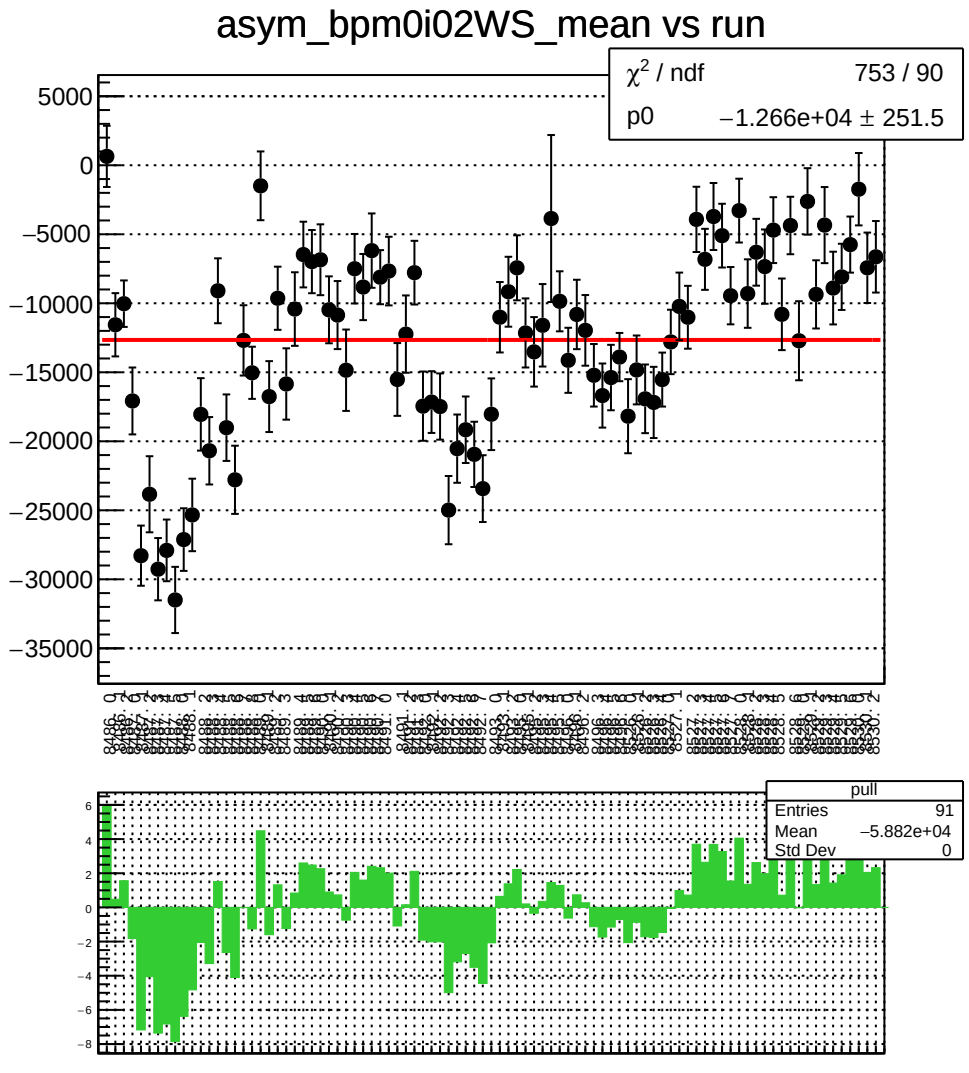

pull1D
Entries 91
Mean 0.04525
Std Dev 1.734

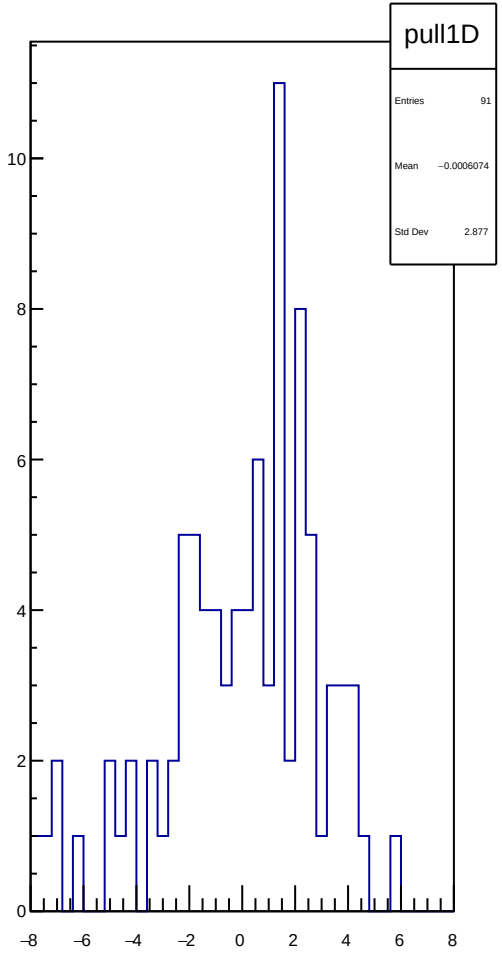

asym_bpm0r03WS_rms vs run
χ² / ndf 1.302e+04 / 90
p0 335.8 ± 0.2548
600
550
500
450
400
350
300

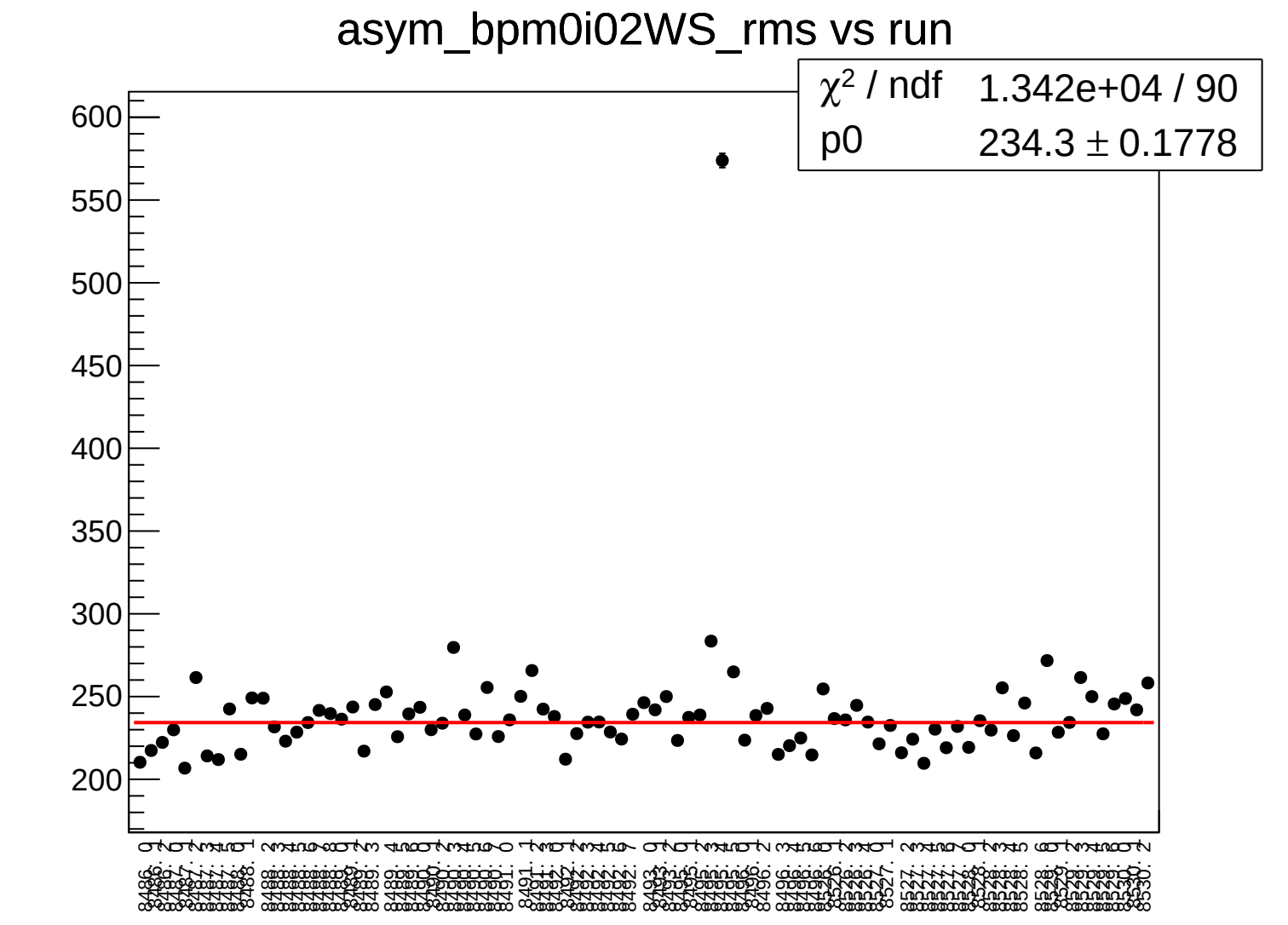

asym_bpm0r05WS_mean vs run
χ² / ndf 197.8 / 90
p0 −6631 ± 444.7
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
−30000
pull
Entries 91
Mean 4678
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4

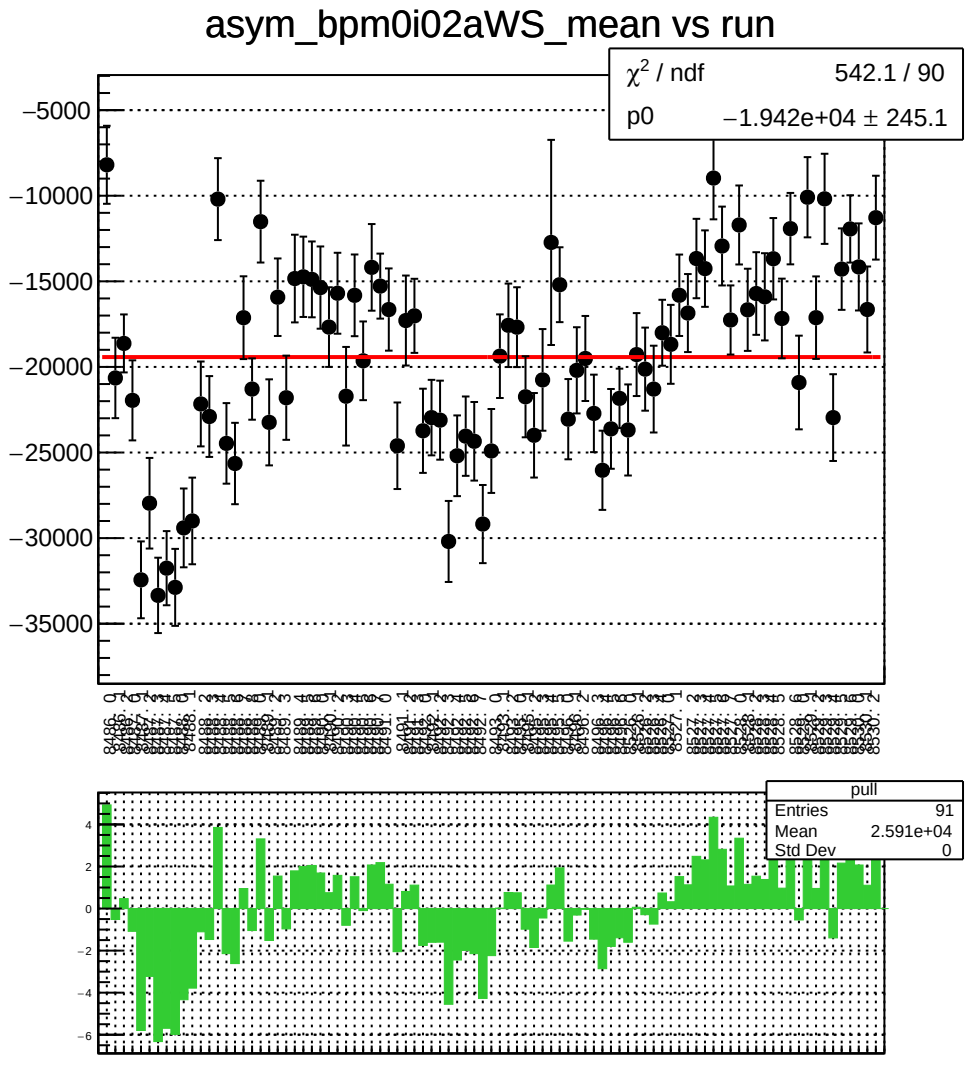

pull1D
Entries 91
Mean 0.002478
Std Dev 1.474
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

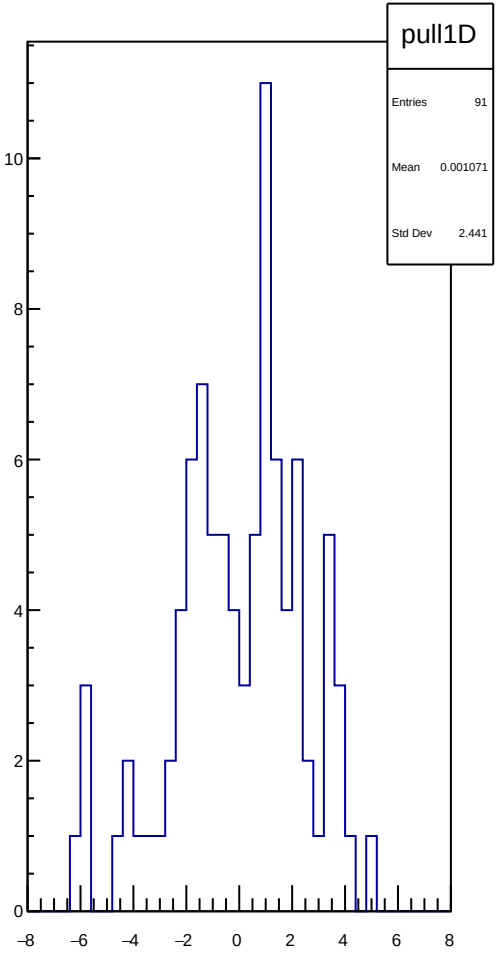

asym_bpm0r05WS_rms vs run
χ² / ndf 1.72e+04 / 90
p0 413.8 ± 0.3144
700
650
600
550
500
450
400
350
300

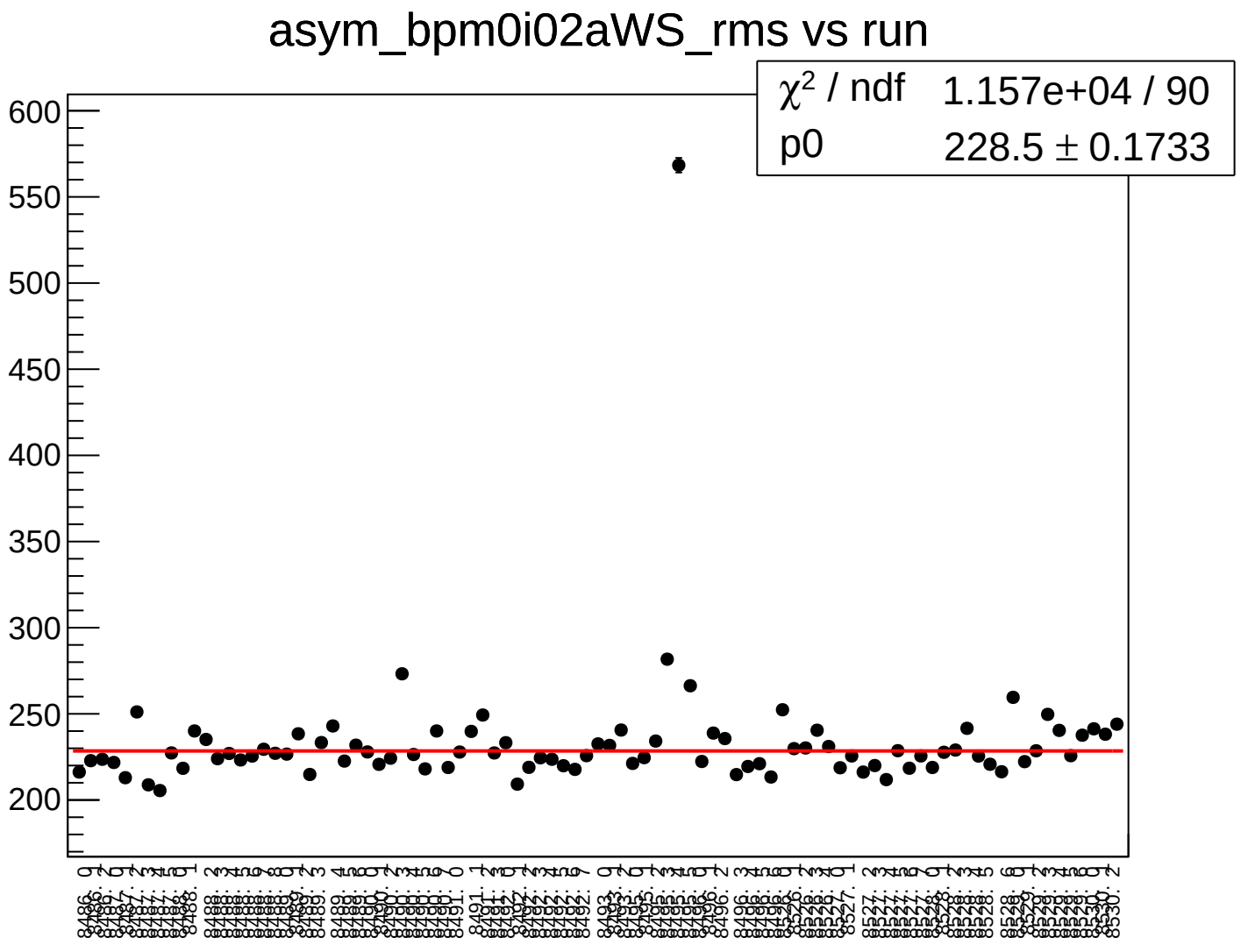

asym_bpm0i02WS_mean vs run
χ² / ndf 753 / 90
p0 −1.266e+04 ± 251.5
pull
Entries 91
Mean −5.882e+04
Std Dev 0

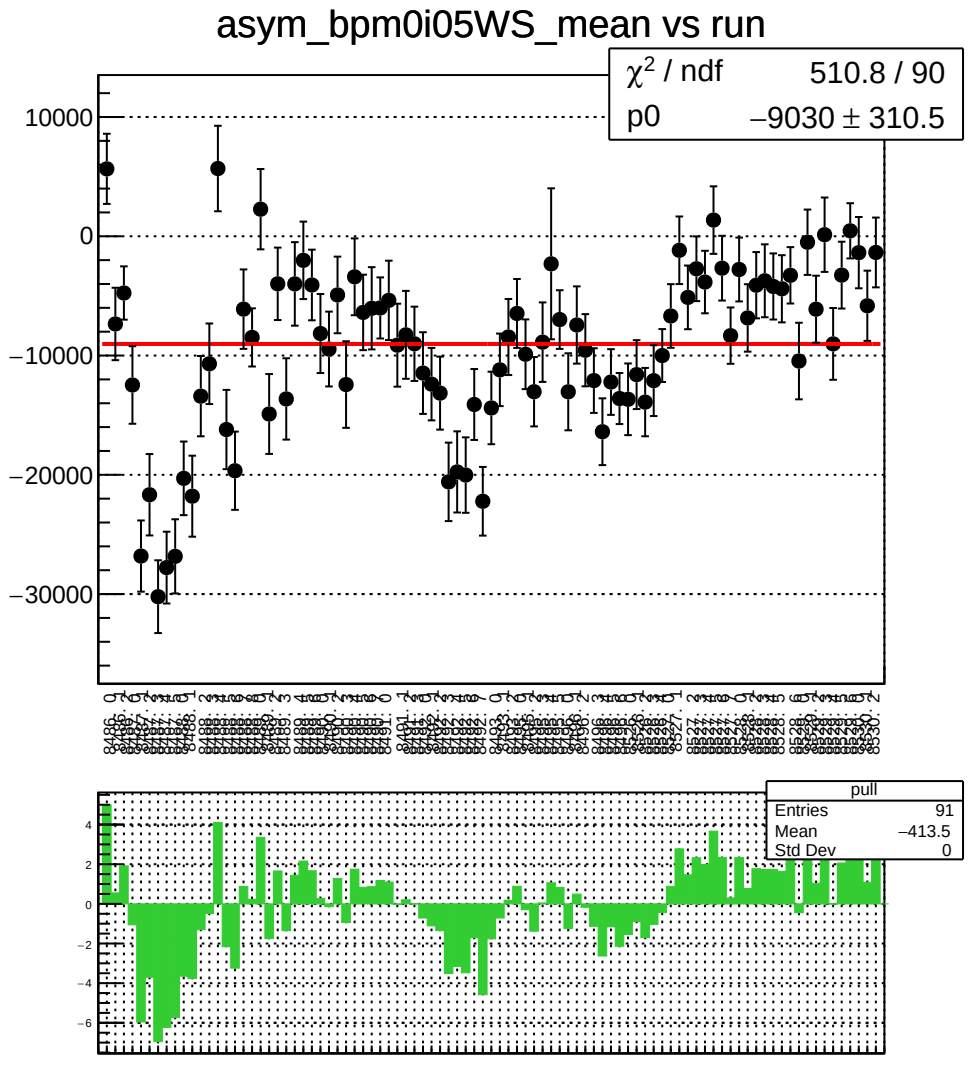

pull1D
Entries 91
Mean −0.0006074
Std Dev 2.877

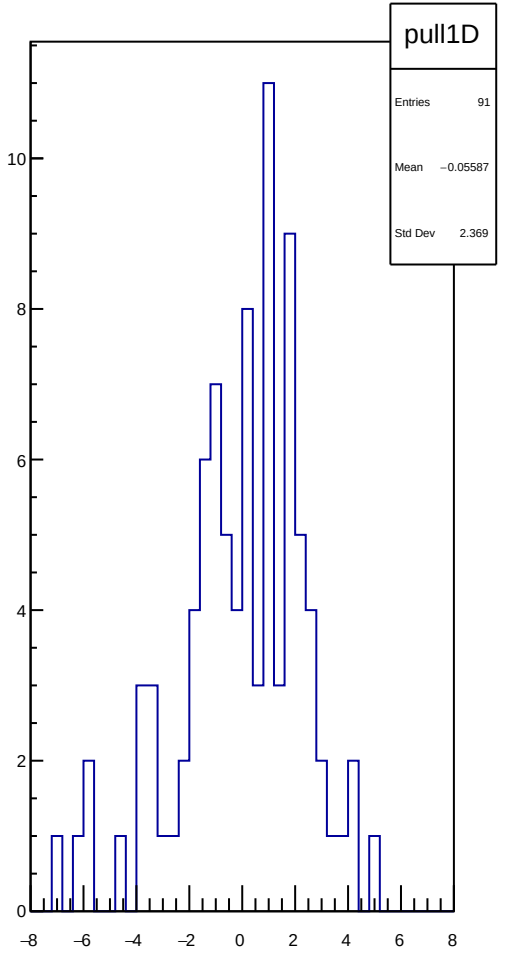

asym_bpm0i02WS_rms vs run
χ^2 / ndf 1.342e+04 / 90
p0 234.3 ± 0.1778
600
550
500
450
400
350
300
250
200

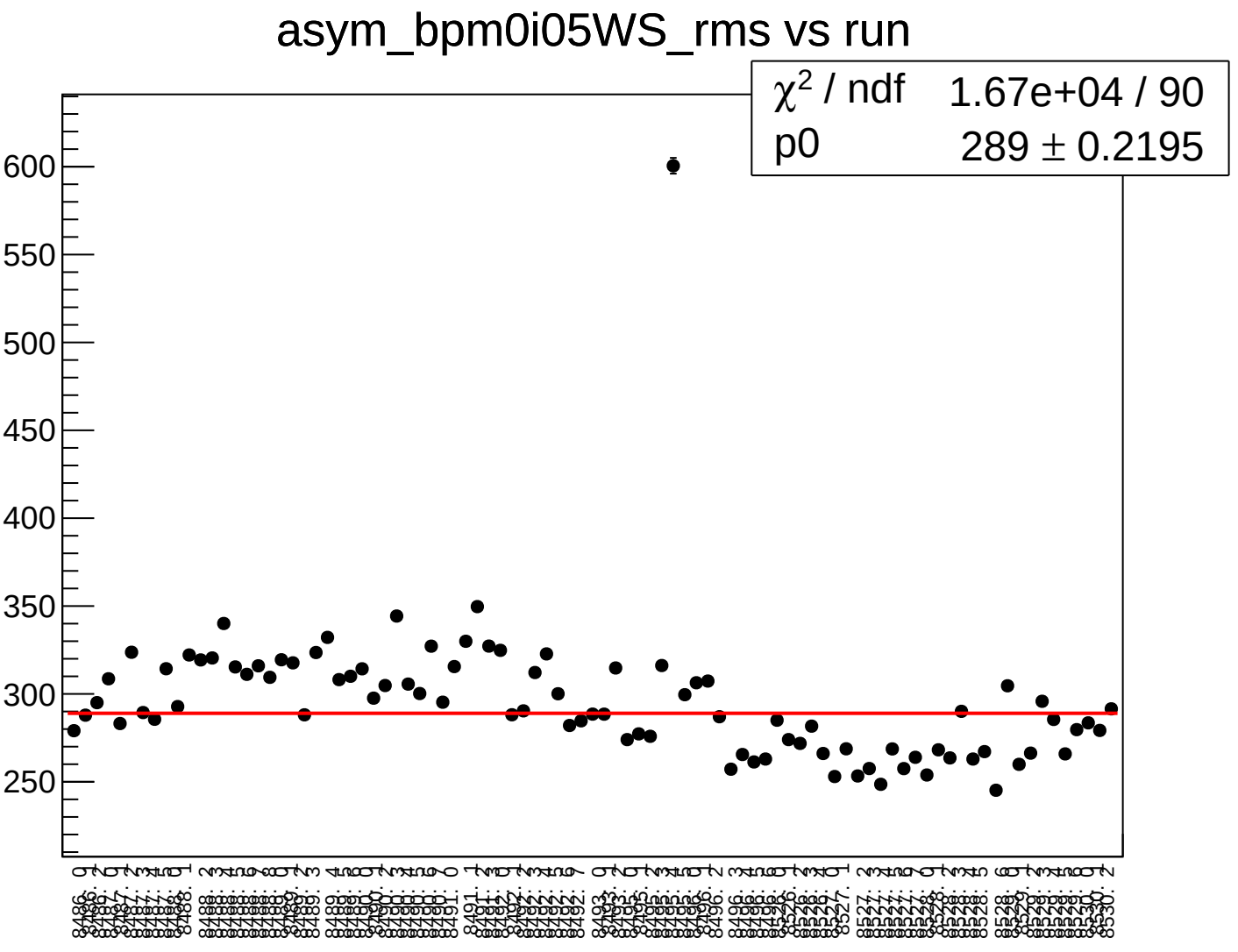

asym_bpm0i02aWS_mean vs run
χ² / ndf 542.1 / 90
p0 −1.942e+04 ± 245.1
−5000
−10000
−15000
−20000
−25000
−30000
−35000
pull
Entries 91
Mean 2.591e+04
Std Dev 0
4
2
0
−2
−4
−6

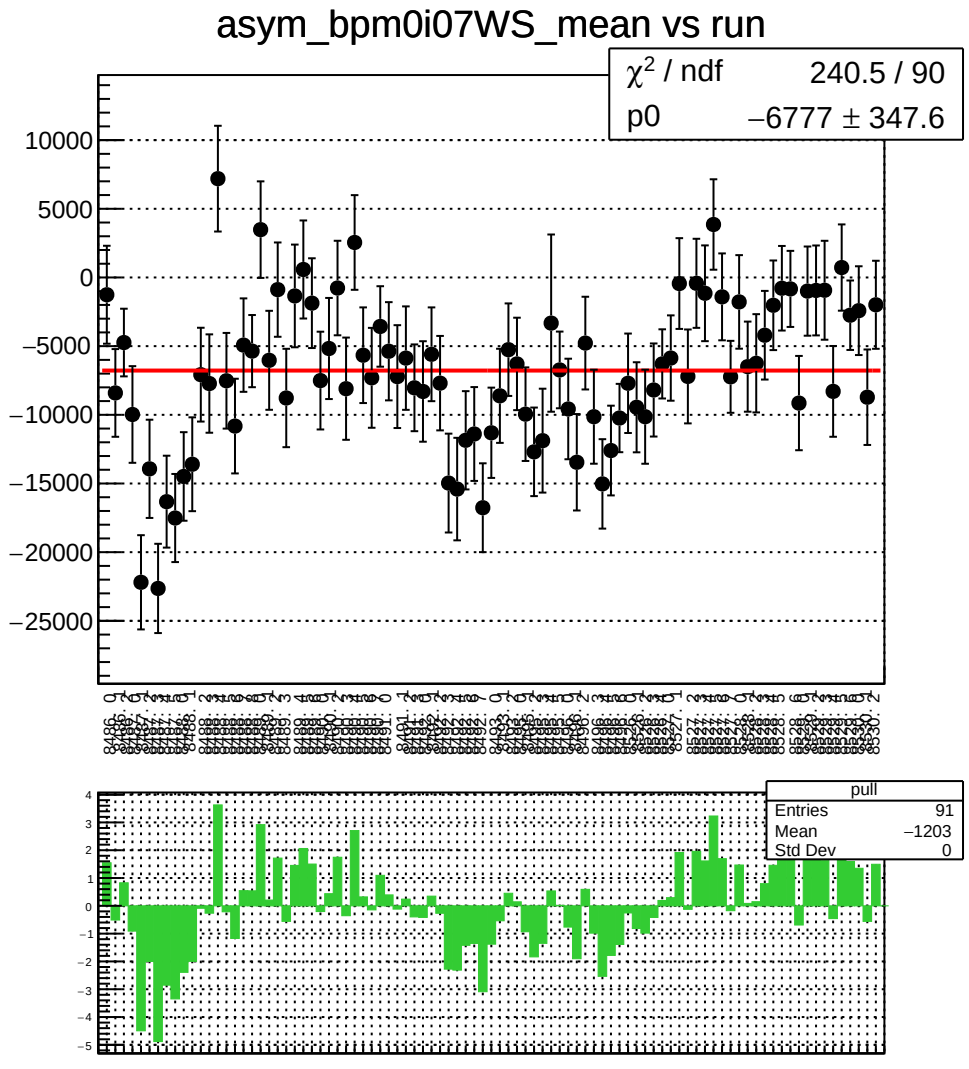

pull1D
Entries 91
Mean 0.001071
Std Dev 2.441
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

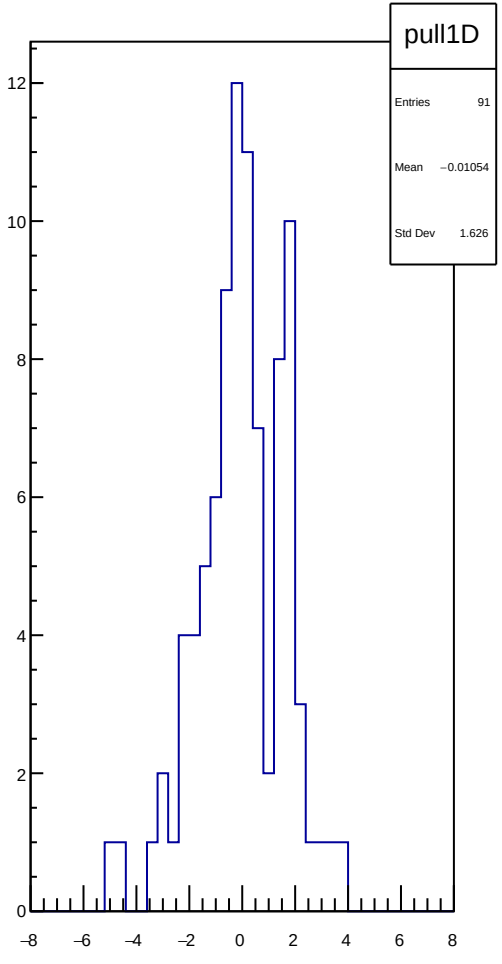

asym_bpm0i02aWS_rms vs run
χ^2 / ndf 1.157e+04 / 90
p0 228.5 ± 0.1733
600
550
500
450
400
350
300
250
200

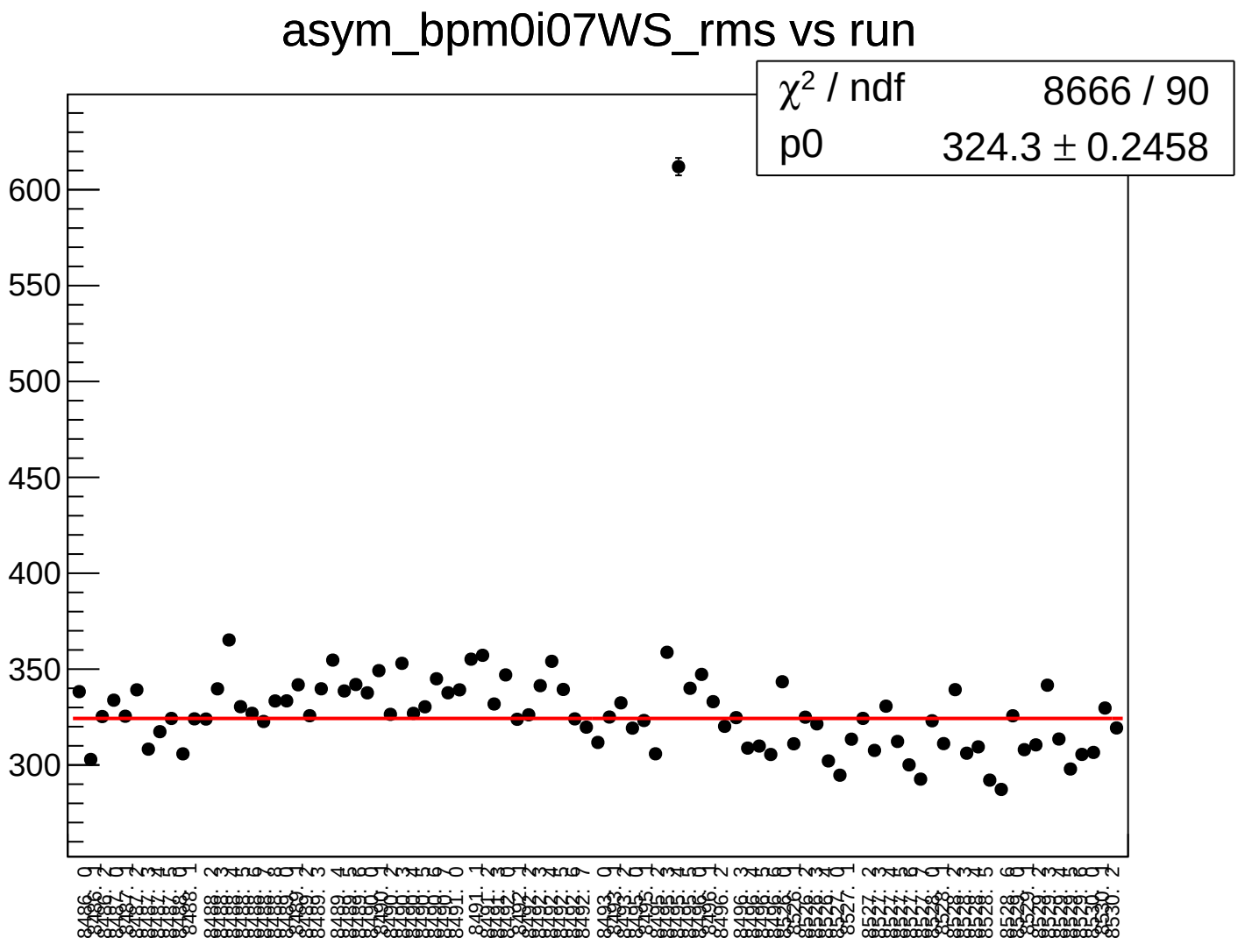

asym_bpm0i05WS_mean vs run
χ² / ndf 510.8 / 90
p0 −9030 ± 310.5
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −413.5
Std Dev 0
4
2
0
−2
−4
−6

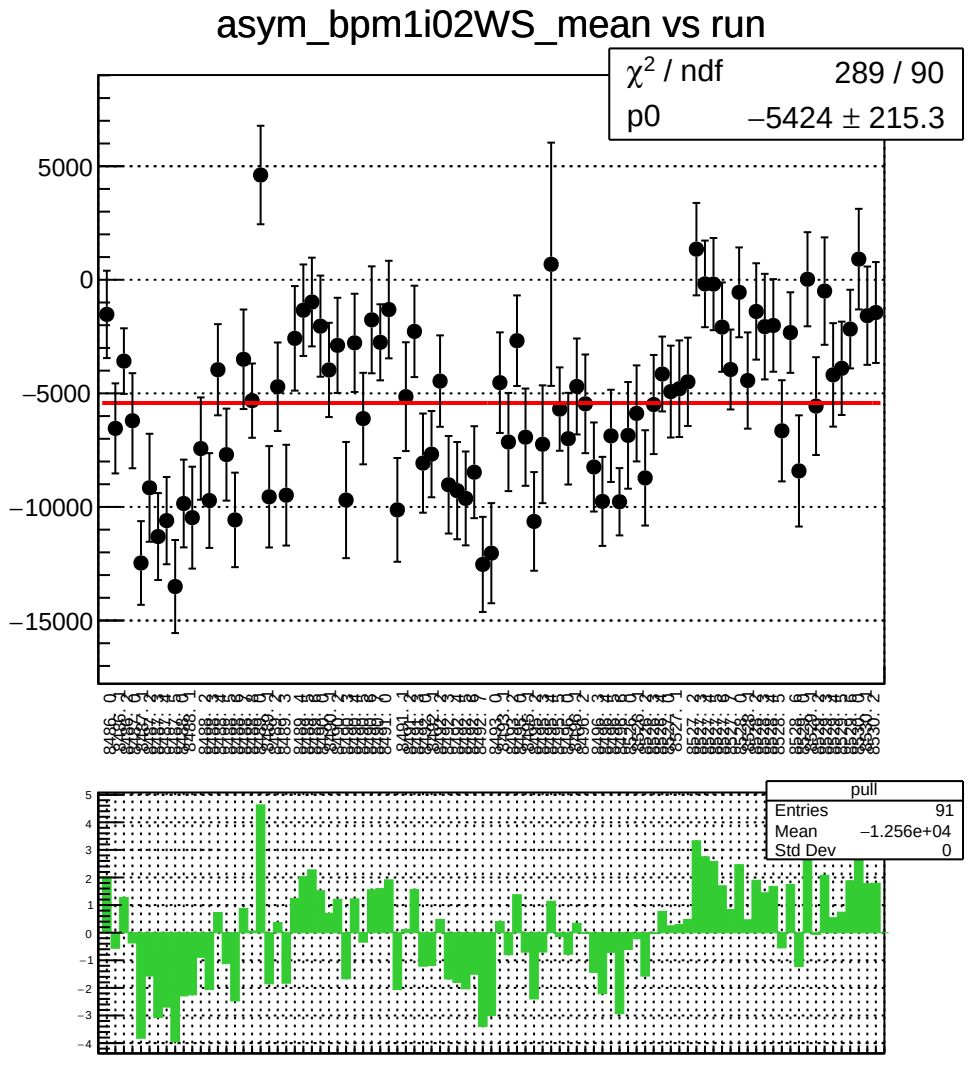

pull1D
Entries 91
Mean −0.05587
Std Dev 2.369
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

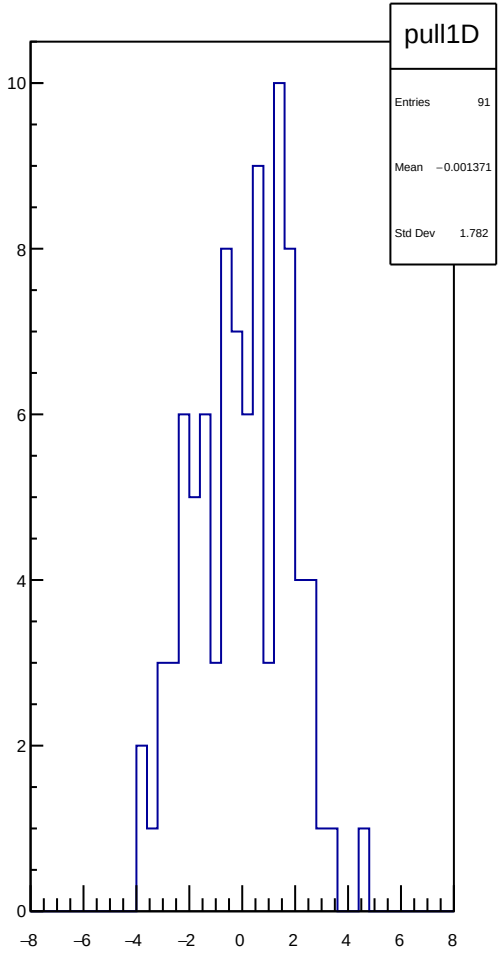

asym_bpm0i05WS_rms vs run
χ^2 / ndf 1.67e+04 / 90
p0 289 ± 0.2195
600
550
500
450
400
350
300
250

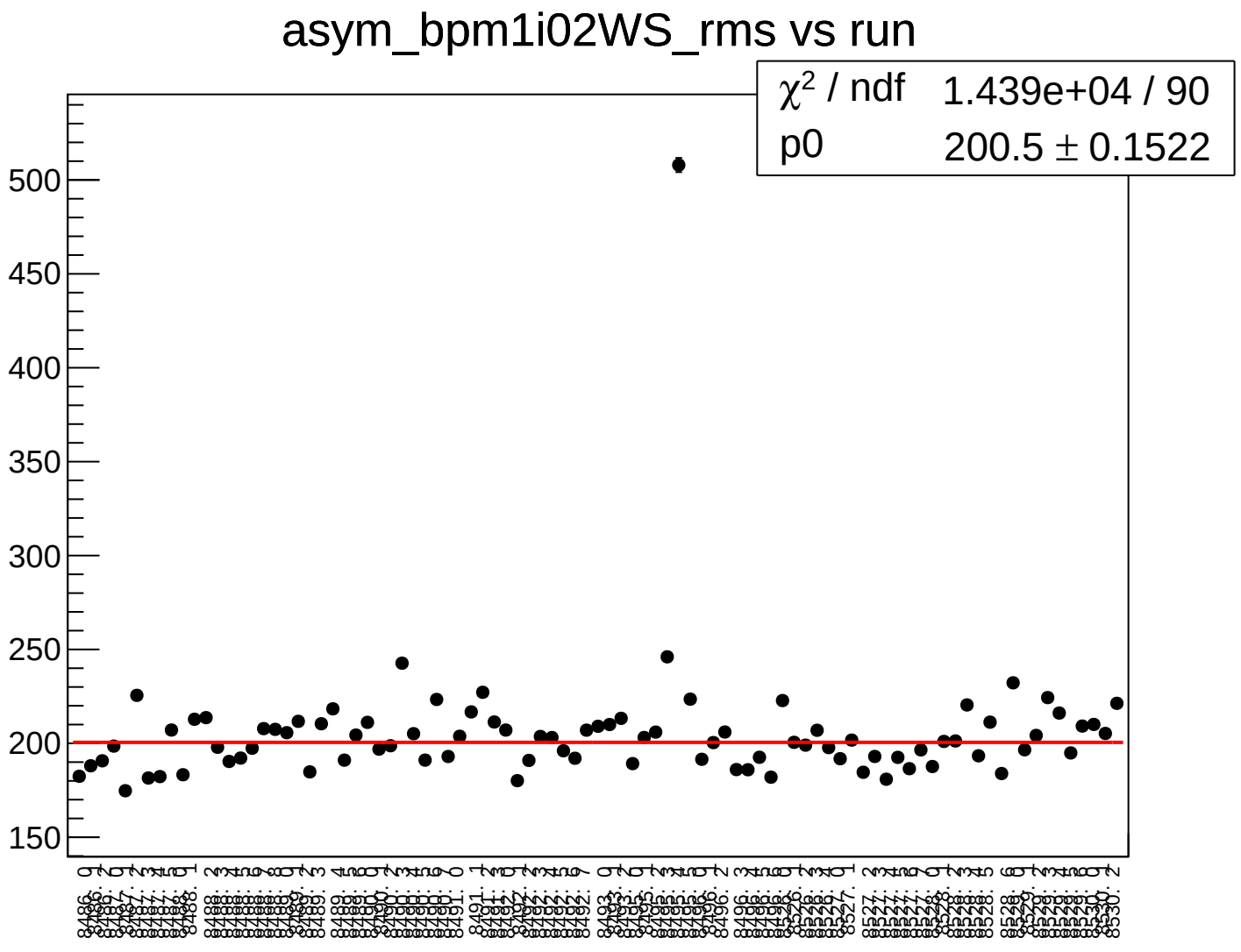

asym_bpm0i07WS_mean vs run
χ² / ndf 240.5 / 90
p0 −6777 ± 347.6
pull
Entries 91
Mean −1203
Std Dev 0

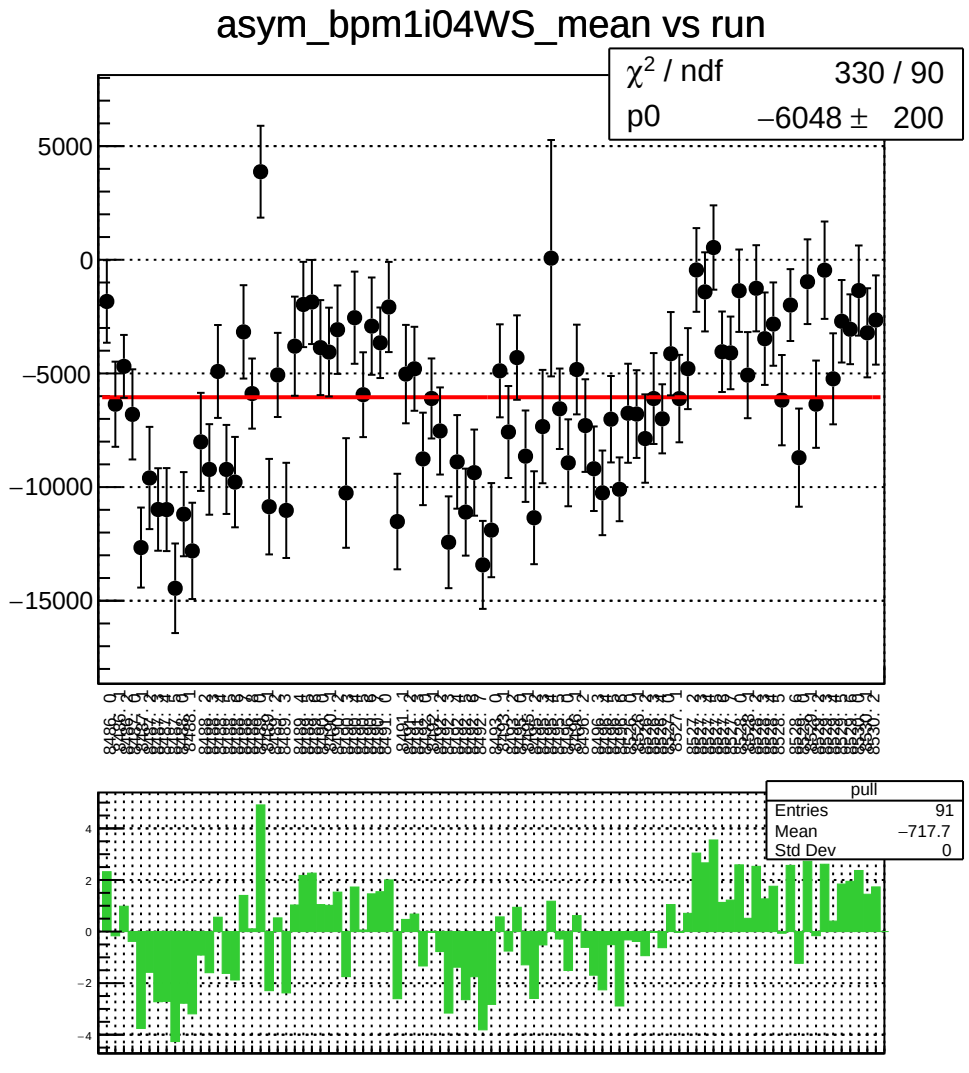

pull1D
Entries 91
Mean −0.01054
Std Dev 1.626

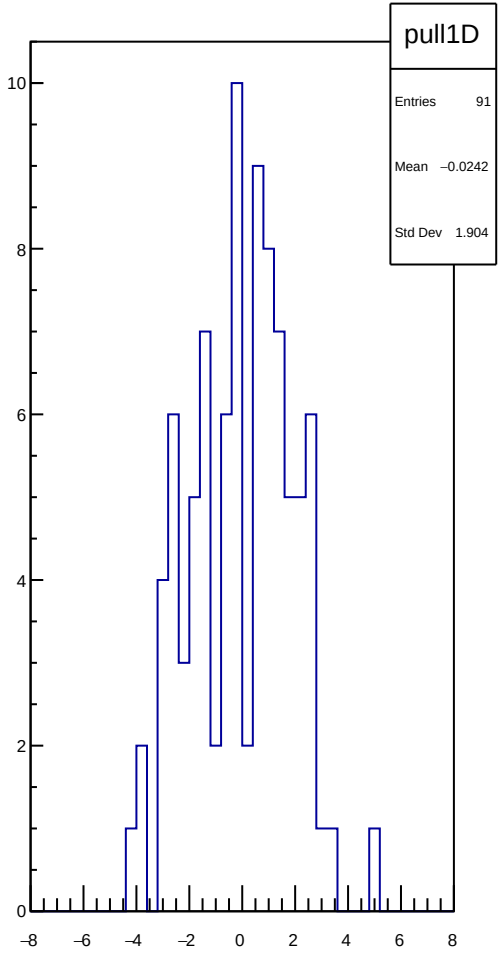

asym_bpm0i07WS_rms vs run
χ^2 / ndf 8666 / 90
p0 324.3 ± 0.2458
600
550
500
450
400
350
300

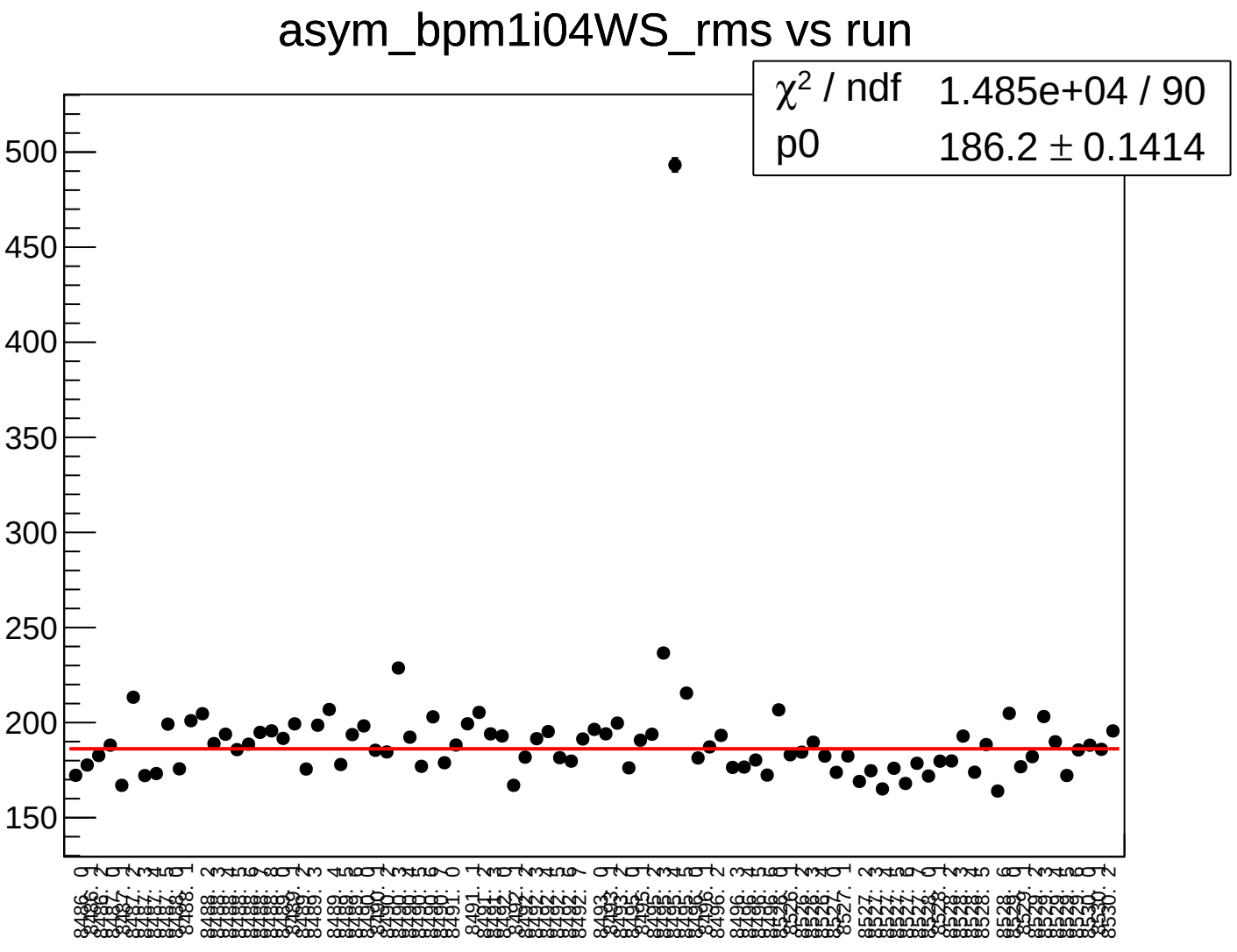

asym_bpm1i02WS_mean vs run
χ² / ndf 289 / 90
p0 −5424 ± 215.3
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean −1.256e+04
Std Dev 0

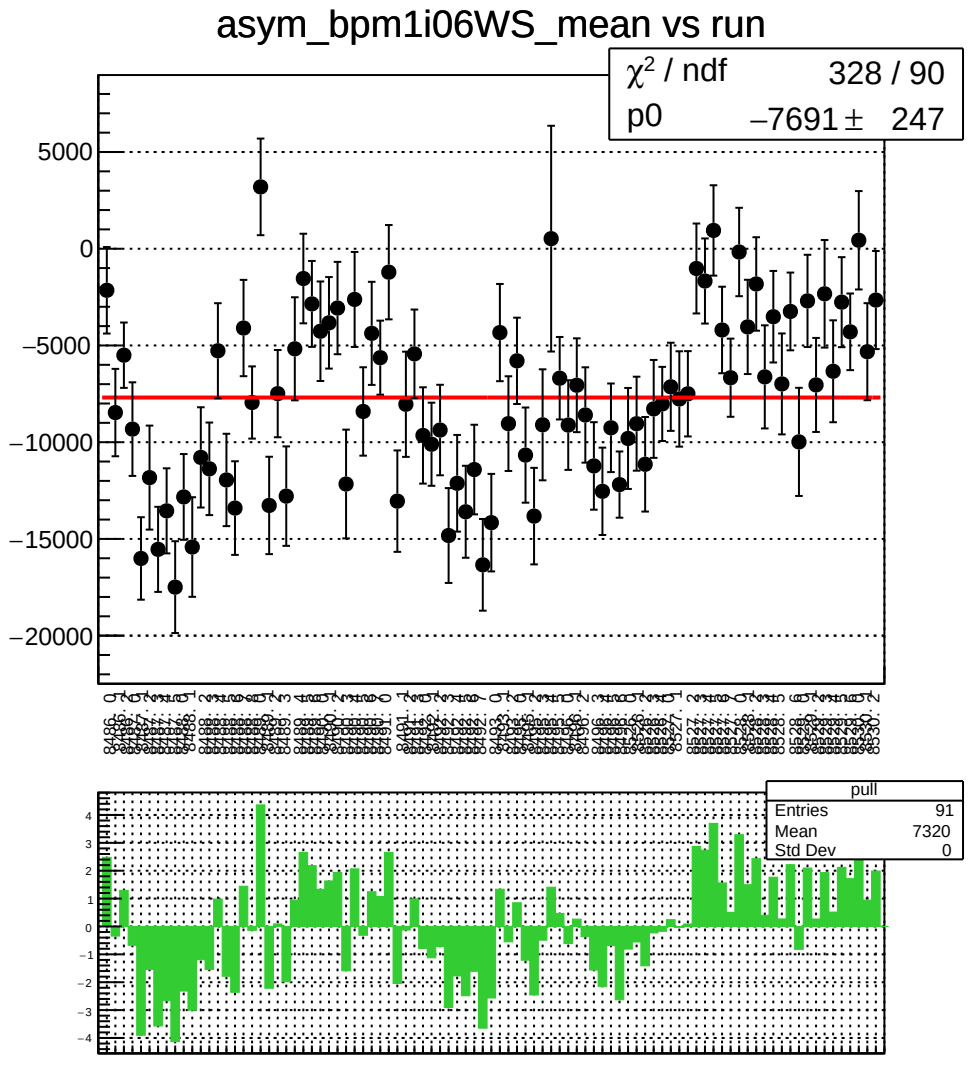

pull1D
Entries 91
Mean −0.001371
Std Dev 1.782

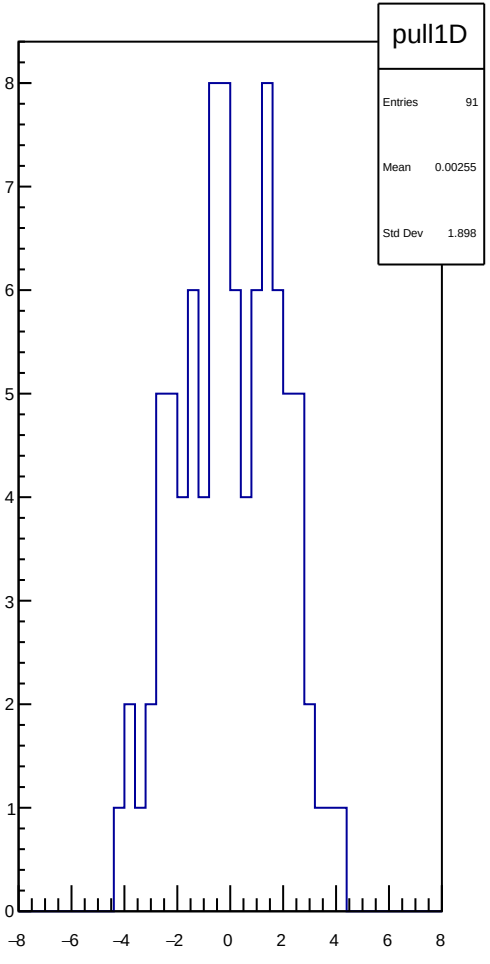

asym_bpm1i02WS_rms vs run
χ² / ndf 1.439e+04 / 90
p0 200.5 ± 0.1522
500
450
400
350
300
250
200
150

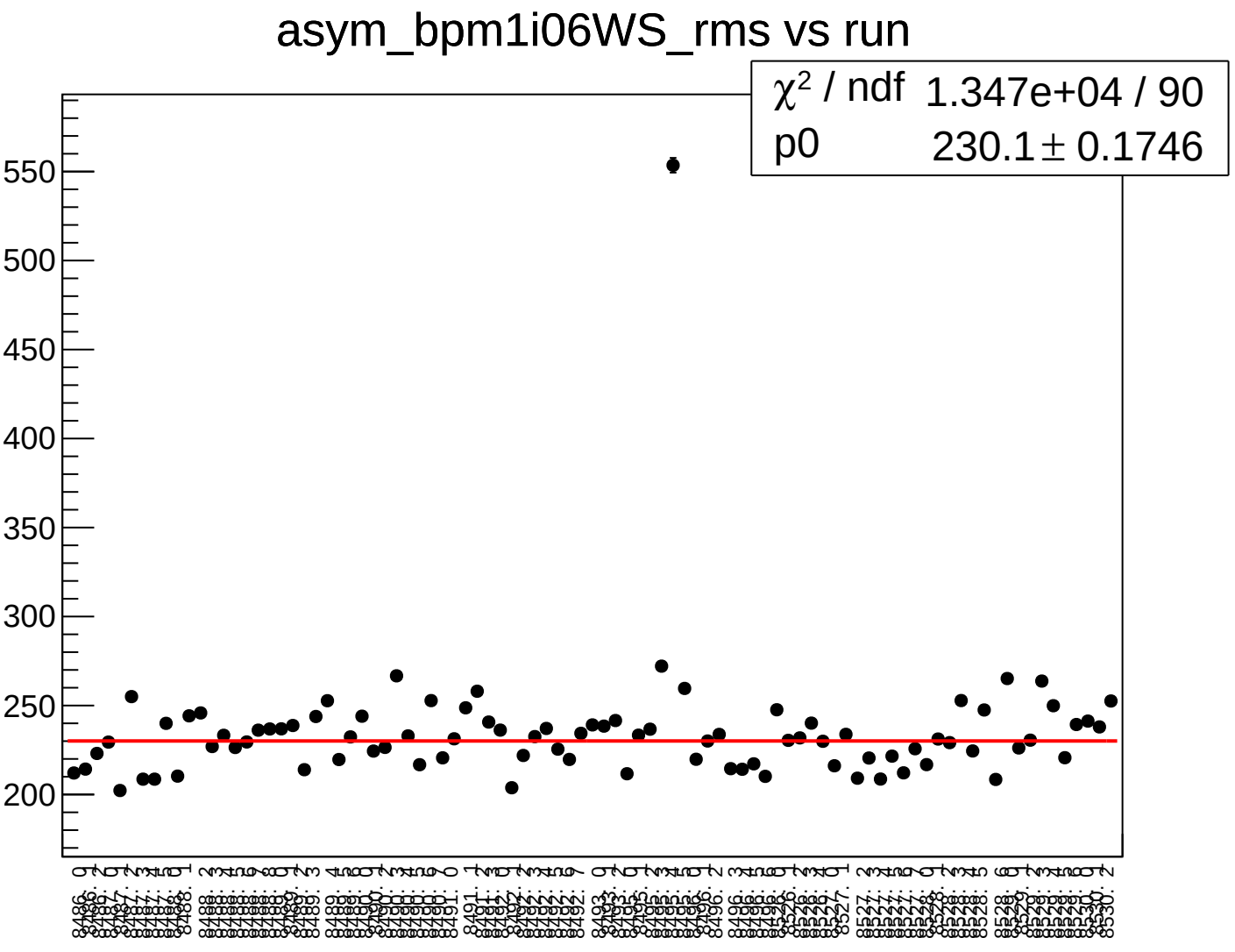

asym_bpm1i04WS_mean vs run
χ² / ndf 330 / 90
p0 −6048 ± 200
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean −717.7
Std Dev 0
4
2
0
−2
−4

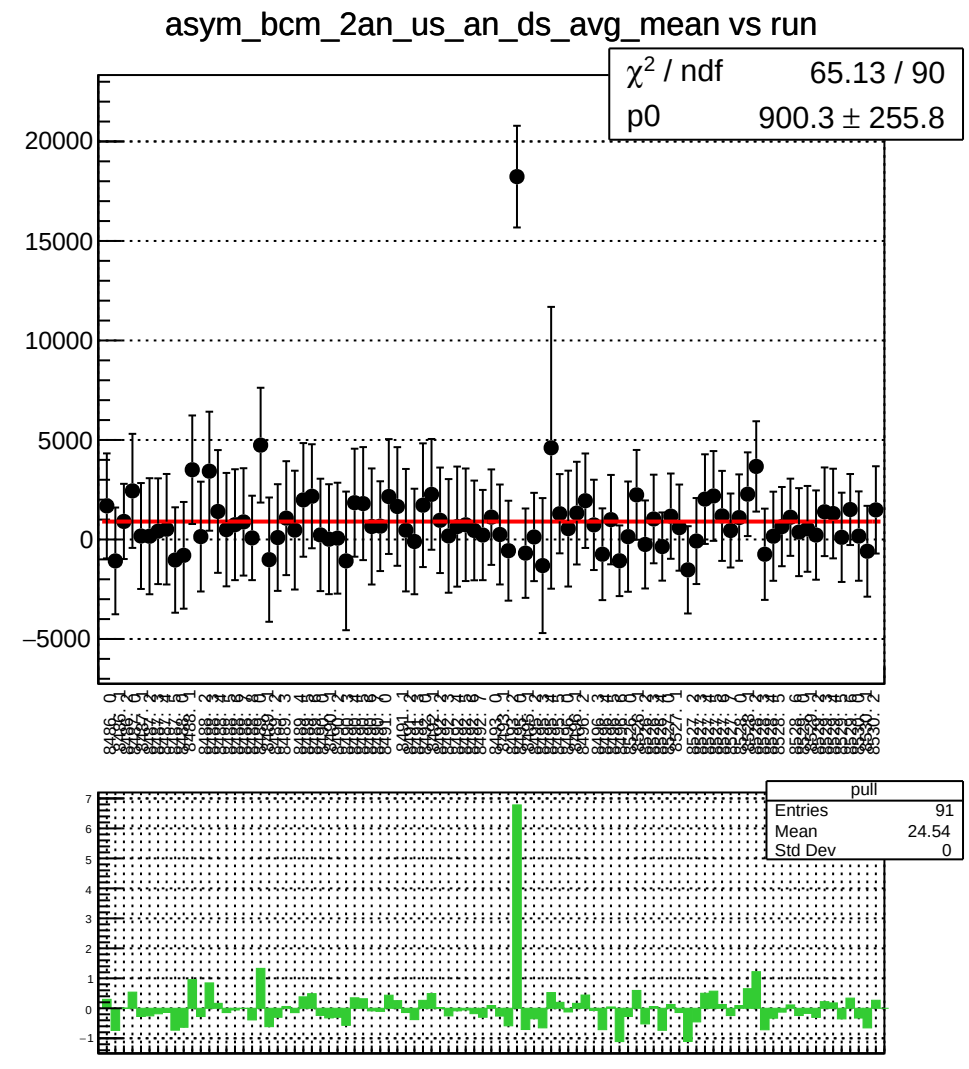

pull1D
Entries 91
Mean −0.0242
Std Dev 1.904
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

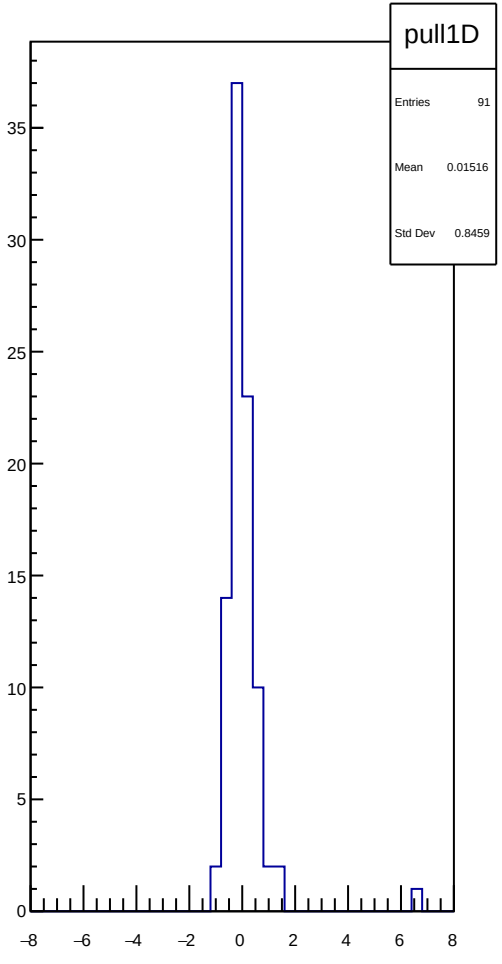

asym_bpm1i04WS_rms vs run
χ² / ndf 1.485e+04 / 90
p0 186.2 ± 0.1414
500
450
400
350
300
250
200
150

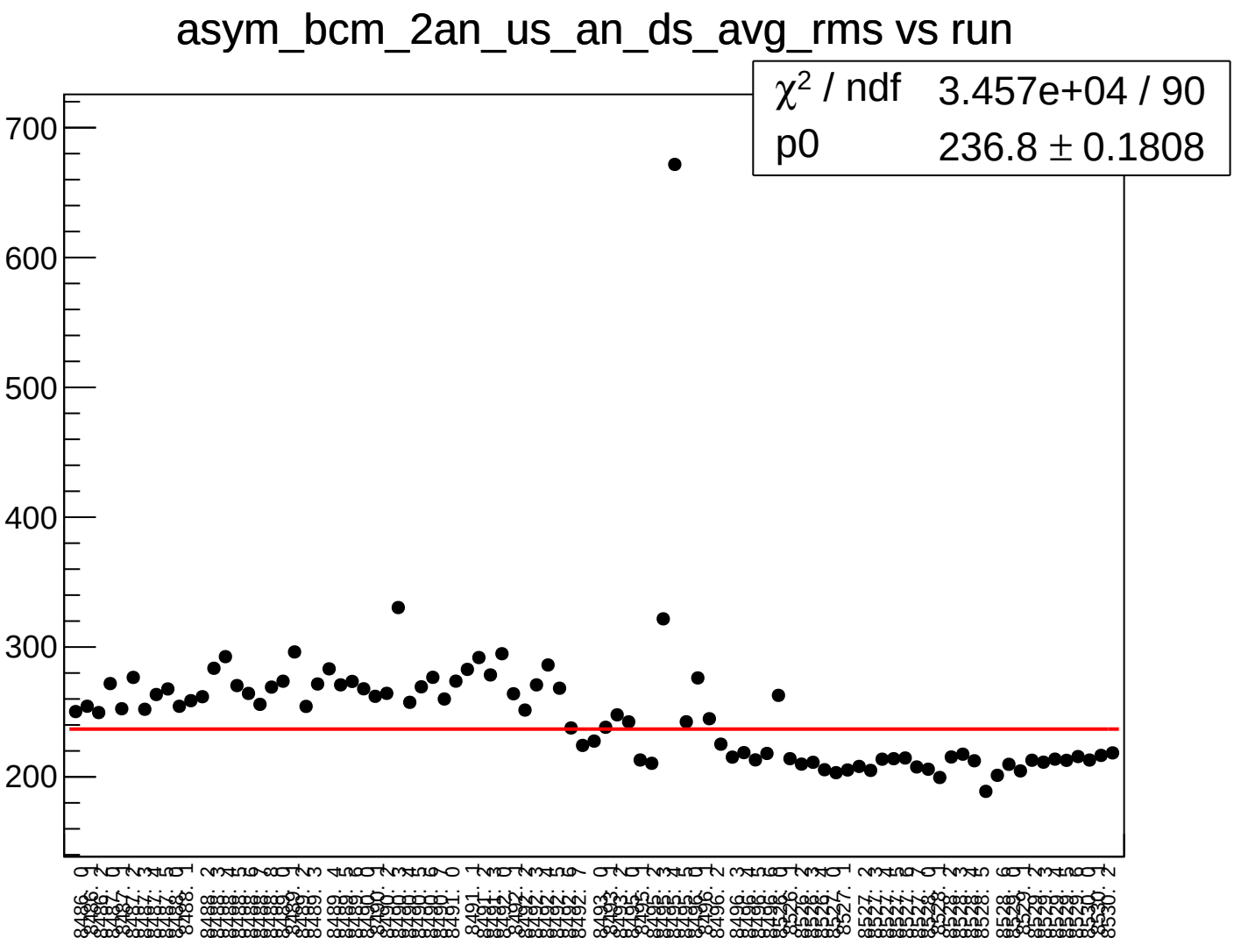

asym_bpm1i06WS_mean vs run
χ² / ndf 328 / 90
p0 −7691 ± 247
5000
0
−5000
−10000
−15000
−20000
pull
Entries 91
Mean 7320
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4

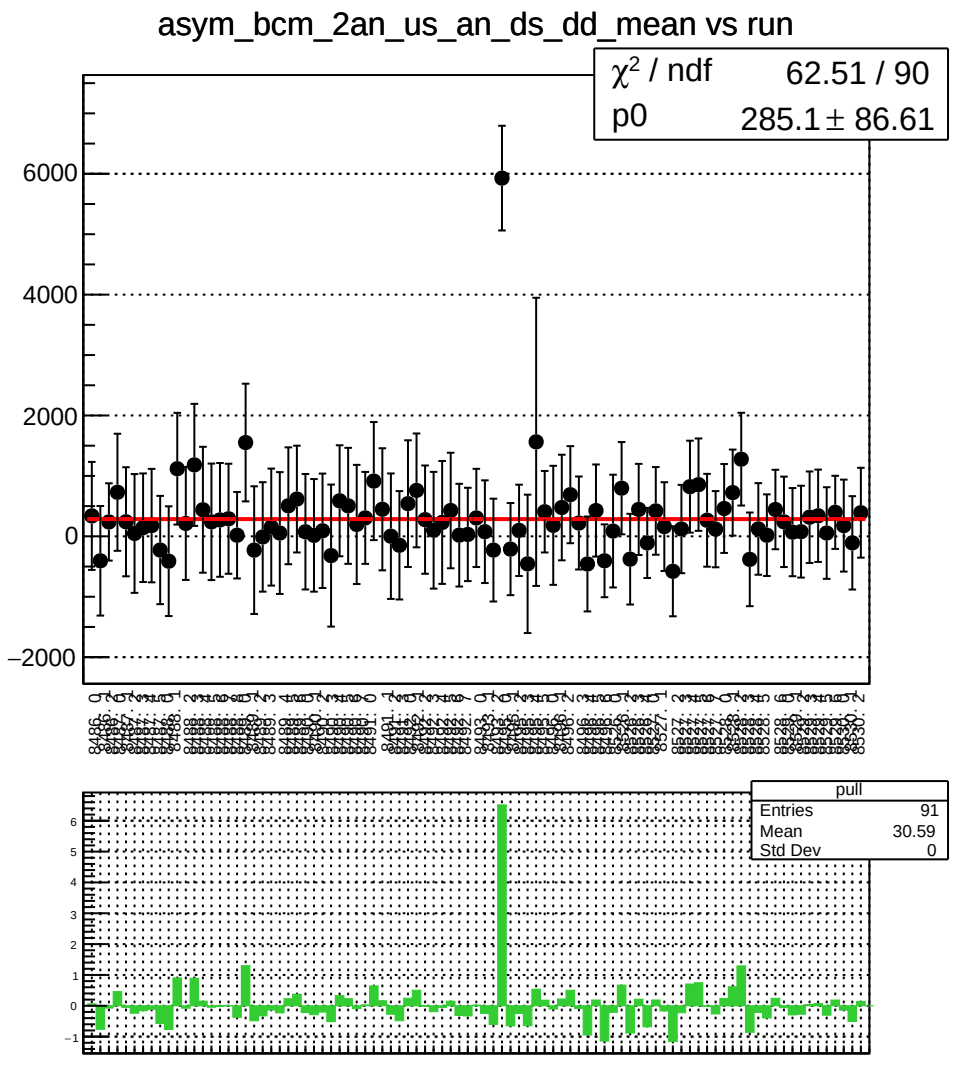

pull1D
Entries 91
Mean 0.00255
Std Dev 1.898
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

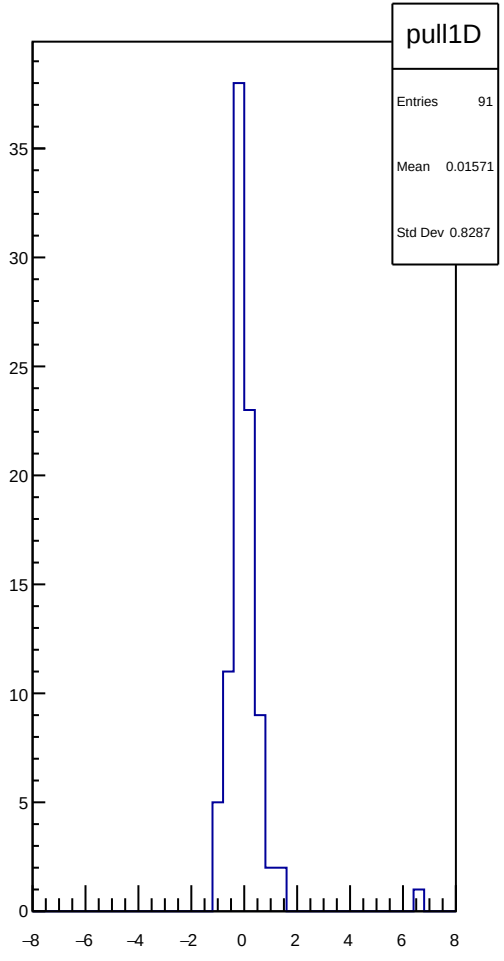

asym_bpm1i06WS_rms vs run
χ² / ndf 1.347e+04 / 90
p0 230.1 ± 0.1746
550
500
450
400
350
300
250
200

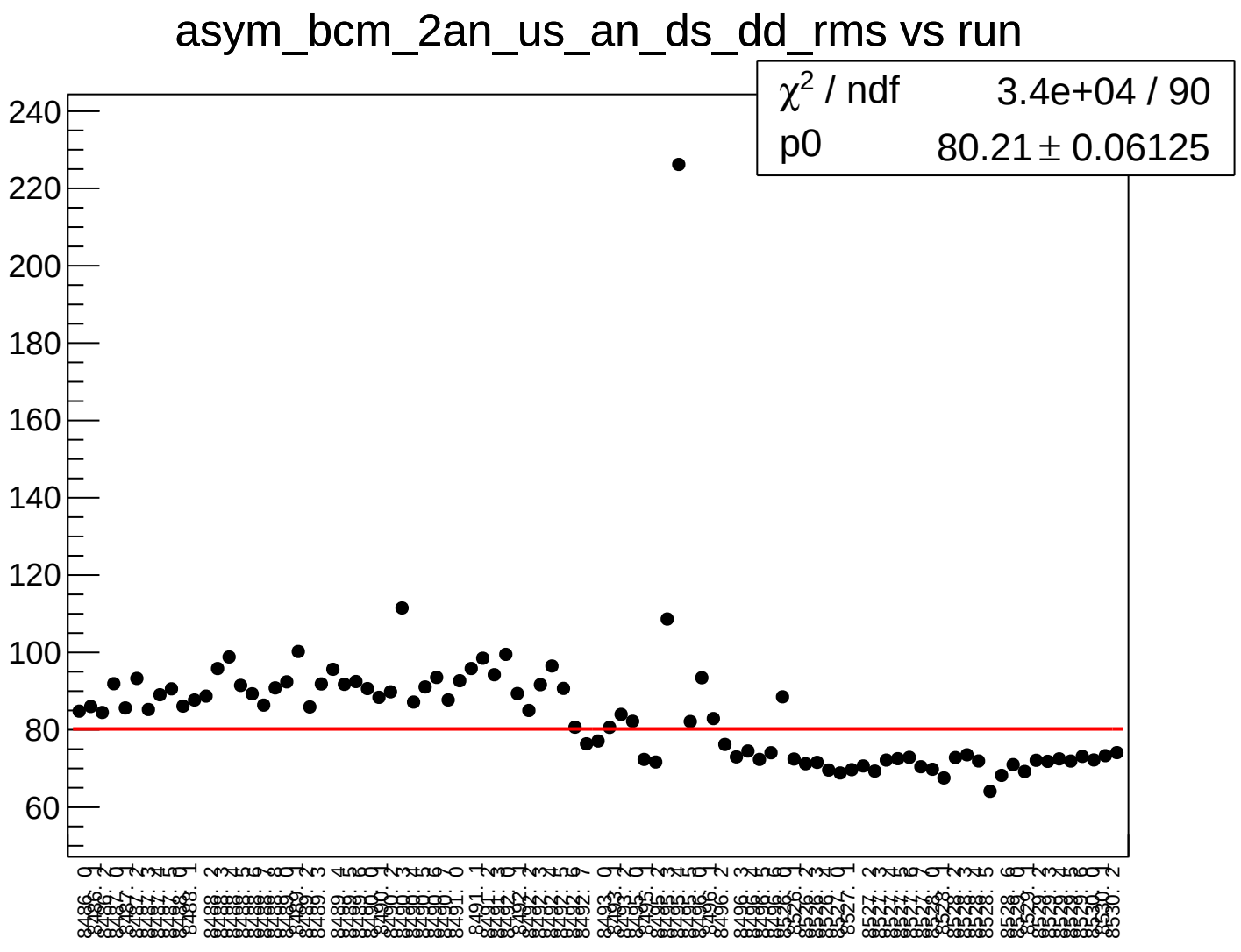

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 65.13 / 90
p0 900.3 ± 255.8
20000
15000
10000
5000
0
−5000
pull
Entries 91
Mean 24.54
Std Dev 0
7
6
5
4
3
2
1
0
−1

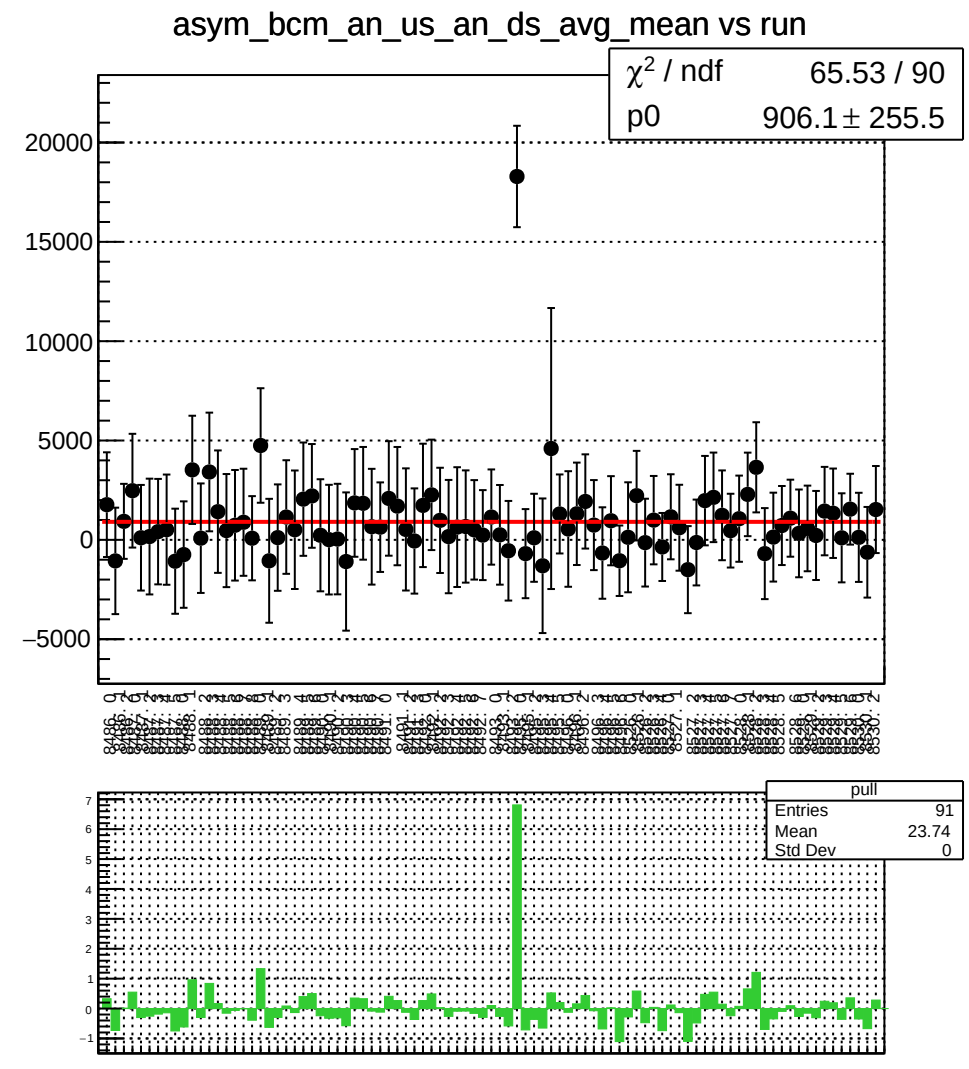

pull1D
Entries 91
Mean 0.01516
Std Dev 0.8459
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

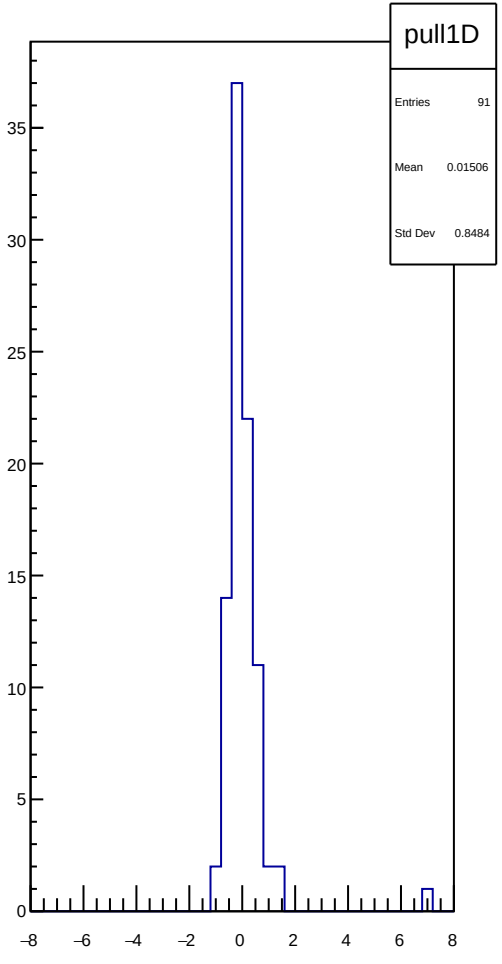

asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 3.457e+04 / 90
p0 236.8 ± 0.1808
700
600
500
400
300
200

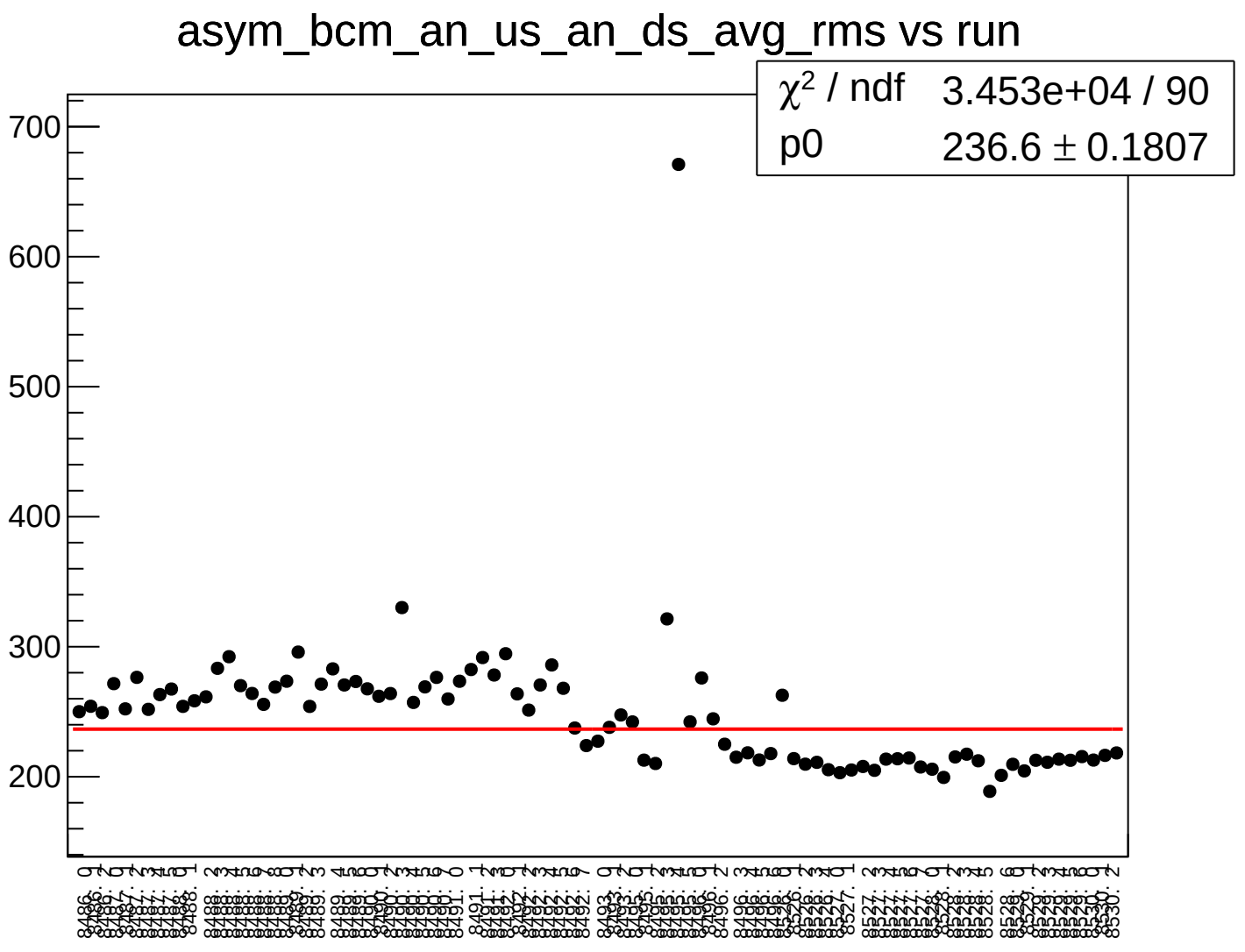

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 62.51 / 90
p0 285.1 ± 86.61
6000
4000
2000
0
−2000
pull
Entries 91
Mean 30.59
Std Dev 0
6
5
4
3
2
1
0
−1

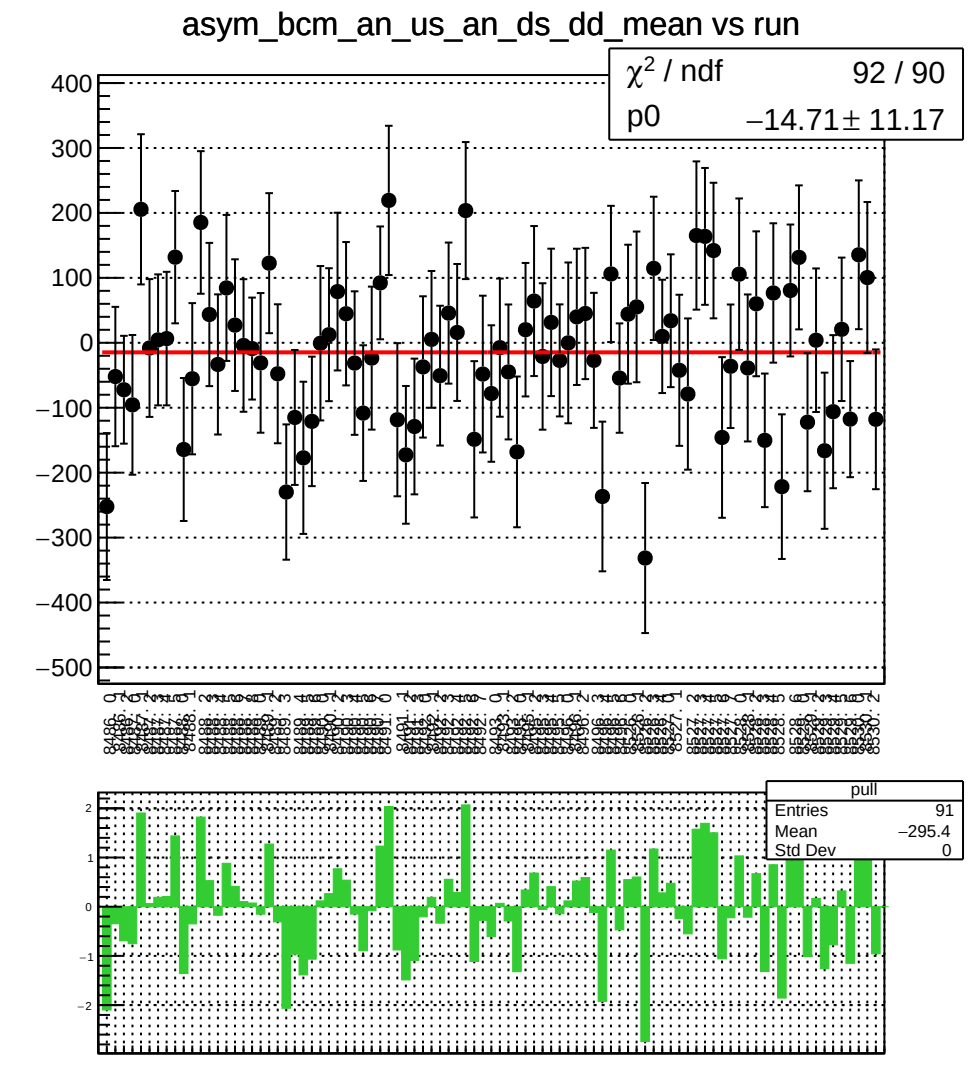

pull1D
Entries 91
Mean 0.01571
Std Dev 0.8287
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

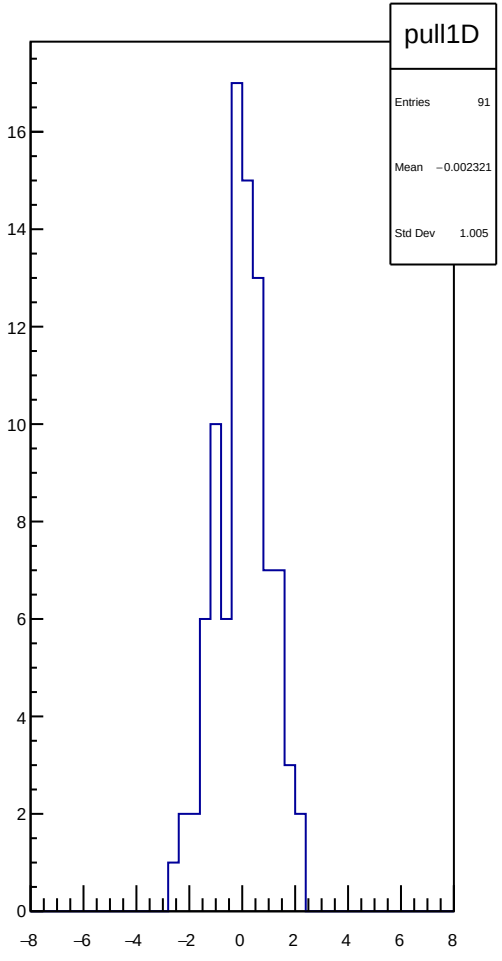

asym_bcm_2an_us_an_ds_dd_rms vs run
χ² / ndf 3.4e+04 / 90
p0 80.21 ± 0.06125
240
220
200
180
160
140
120
100
80
60

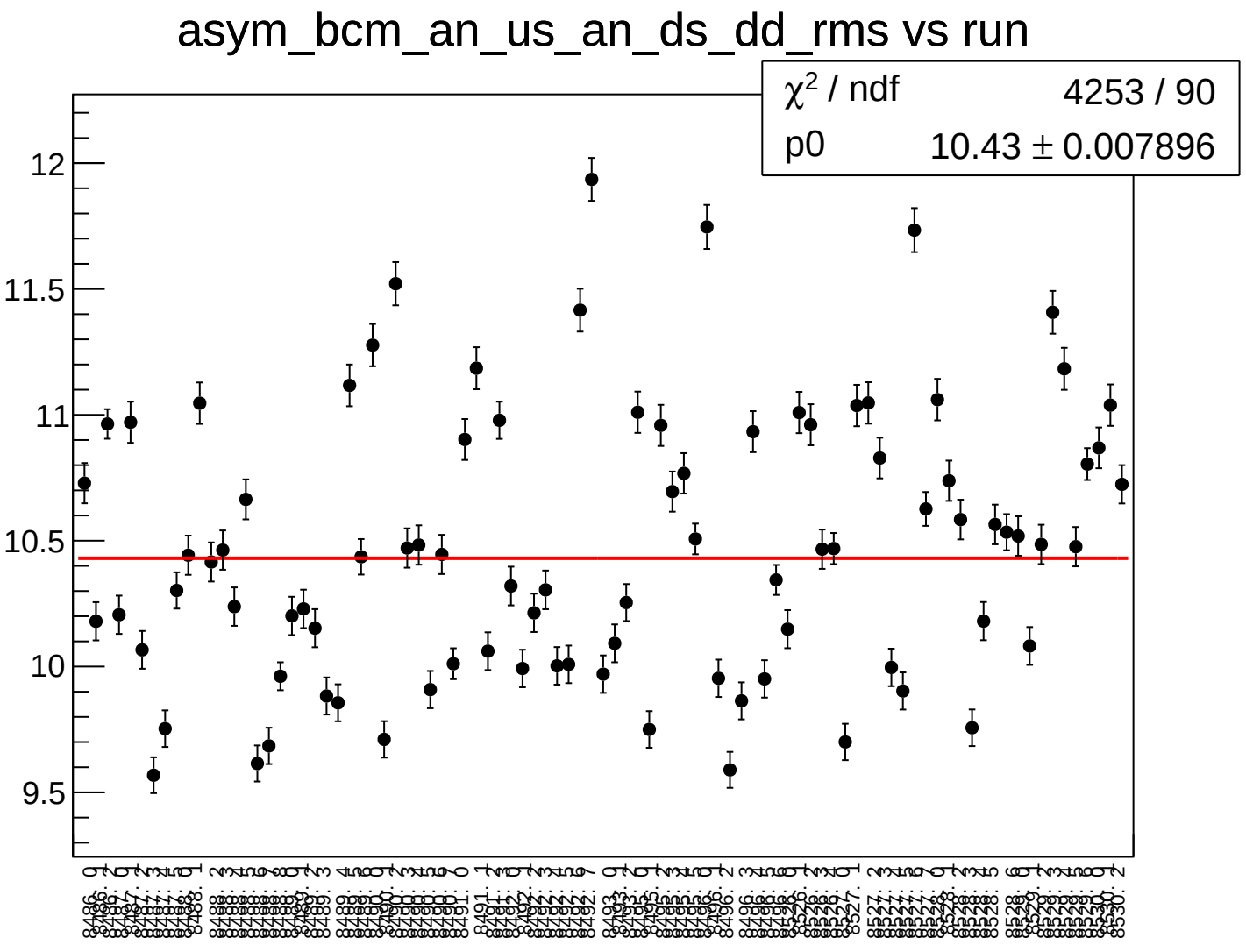

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 65.53 / 90
p0 906.1 ± 255.5
20000
15000
10000
5000
0
−5000
pull
Entries 91
Mean 23.74
Std Dev 0
7
6
5
4
3
2
1
0
−1

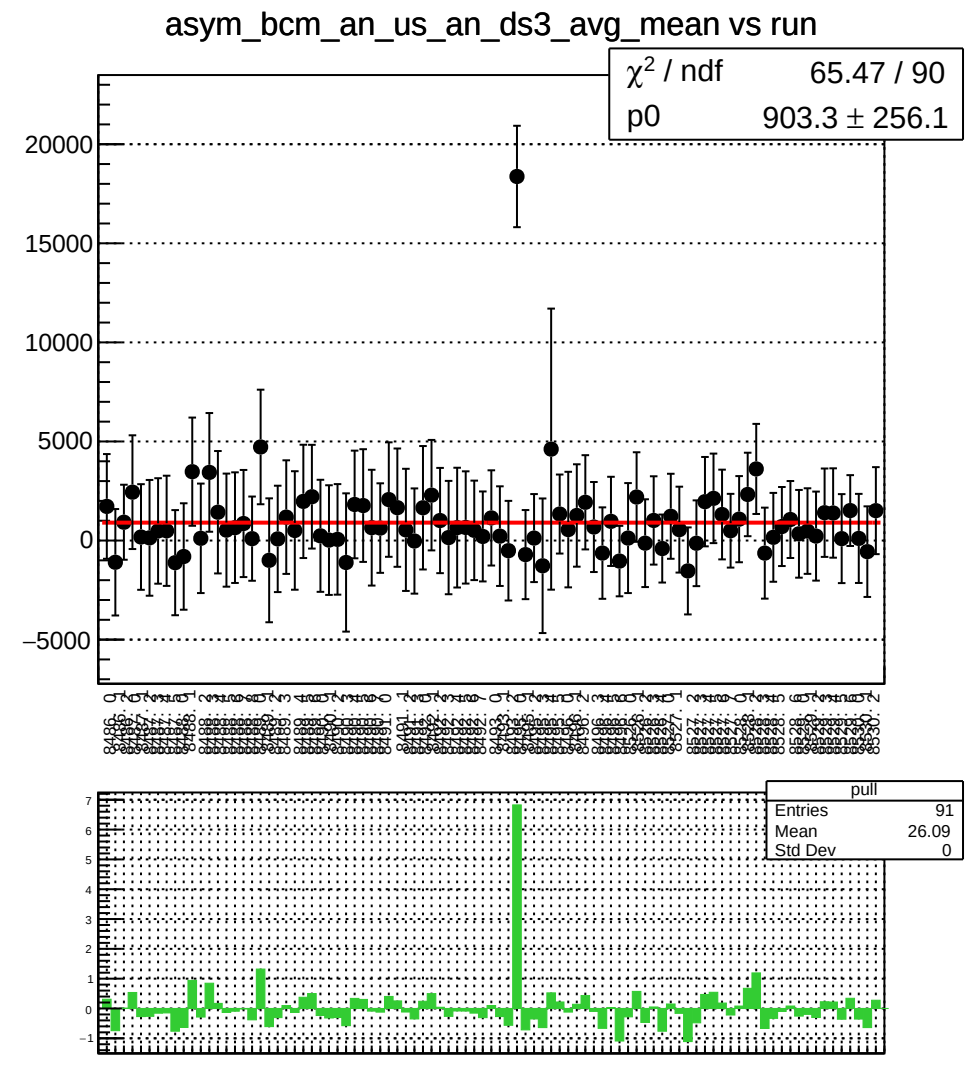

pull1D
Entries 91
Mean 0.01506
Std Dev 0.8484
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

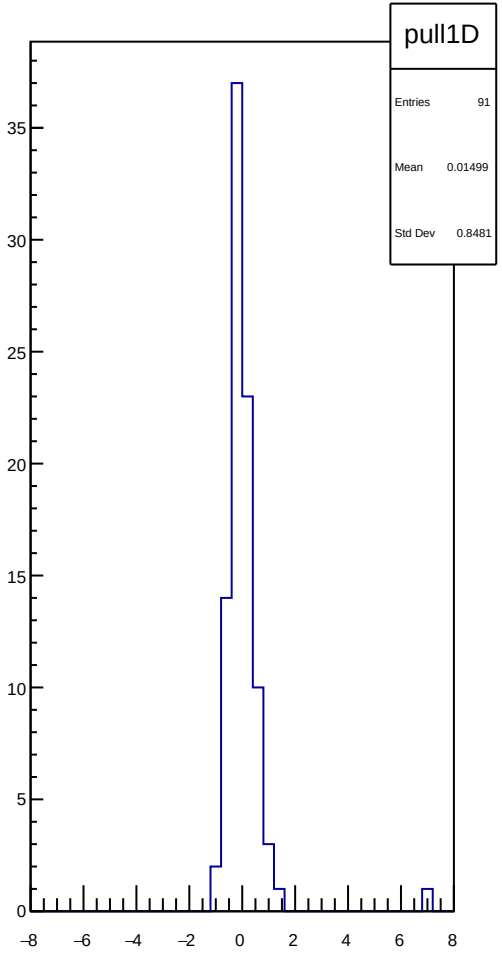

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 3.453e+04 / 90
p0 236.6 ± 0.1807
700
600
500
400
300
200

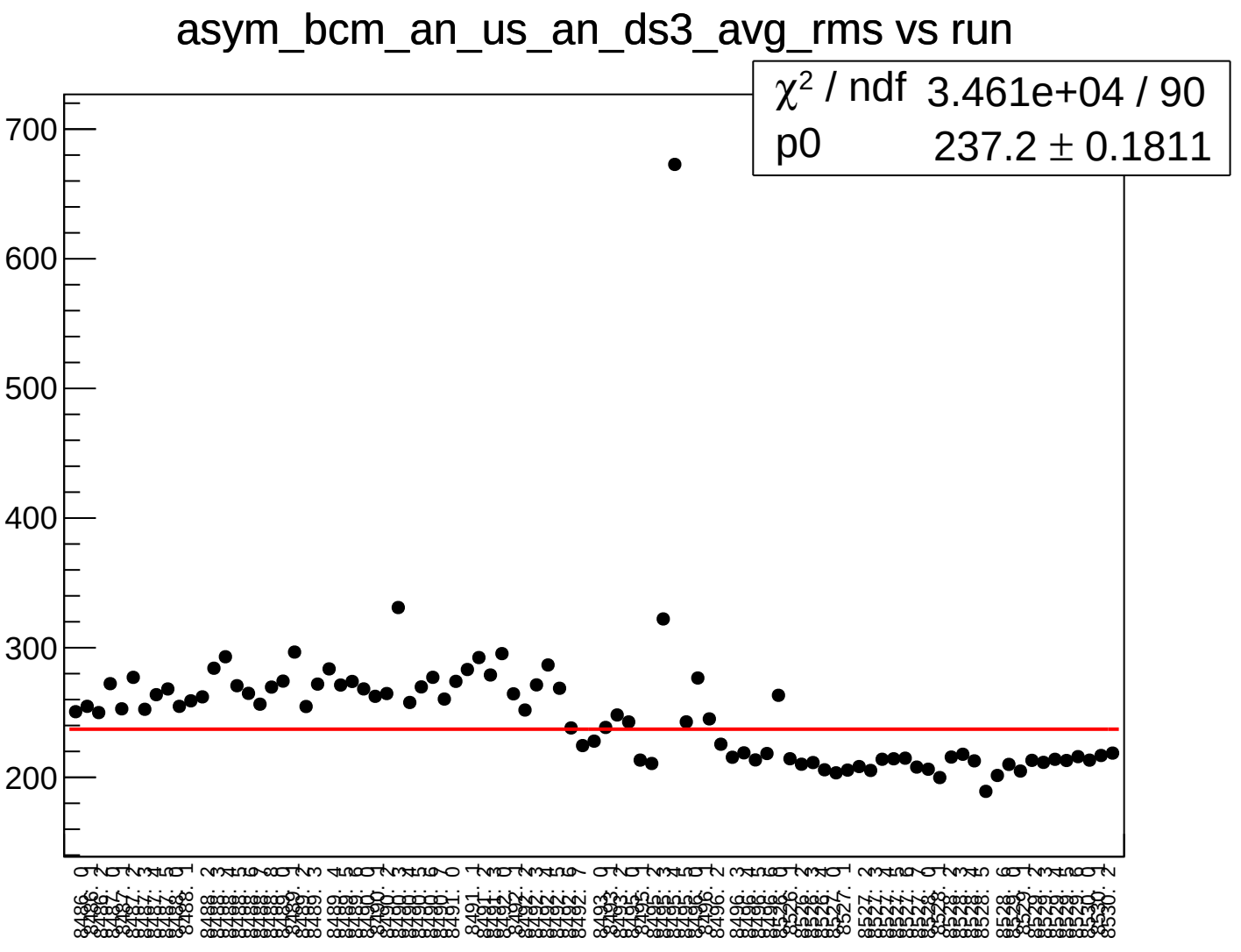

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 92 / 90
p0 −14.71 ± 11.17
pull
Entries 91
Mean −295.4
Std Dev 0

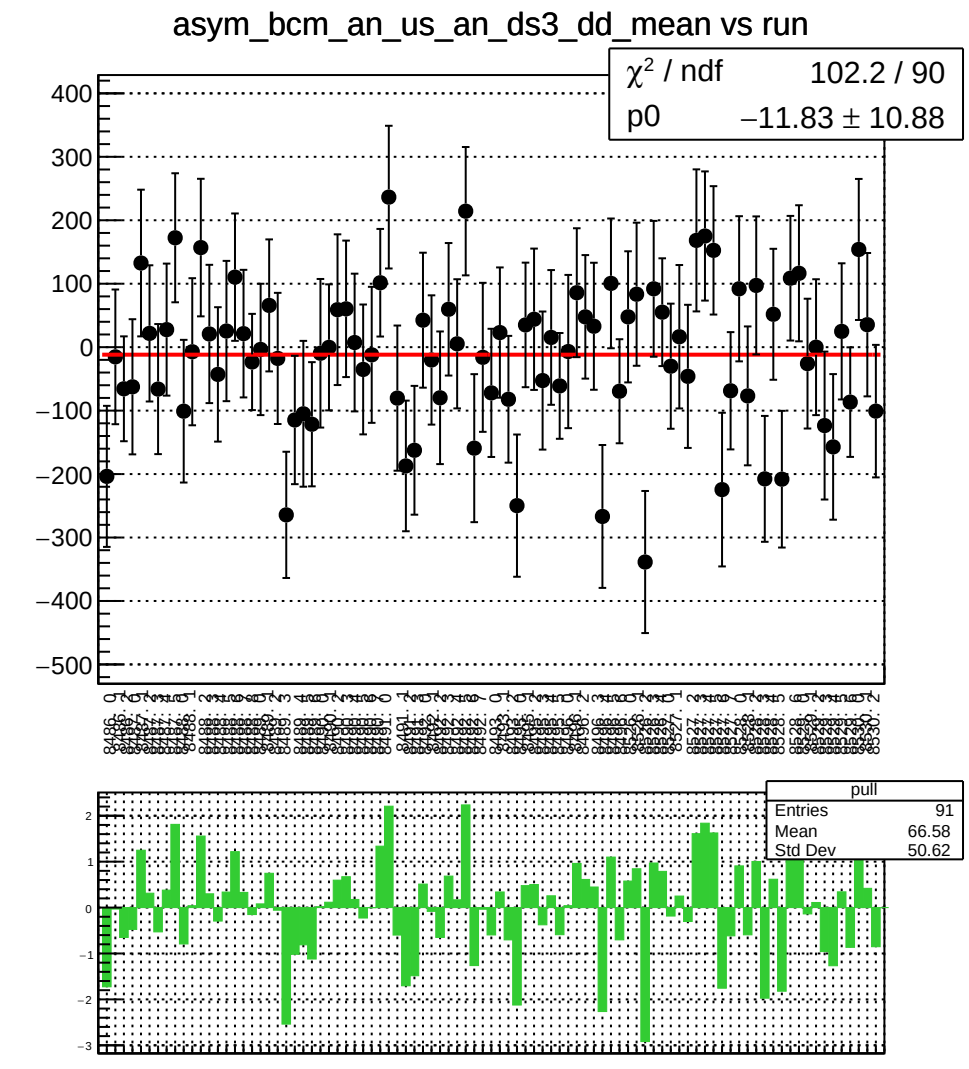

pull1D
Entries 91
Mean −0.002321
Std Dev 1.005

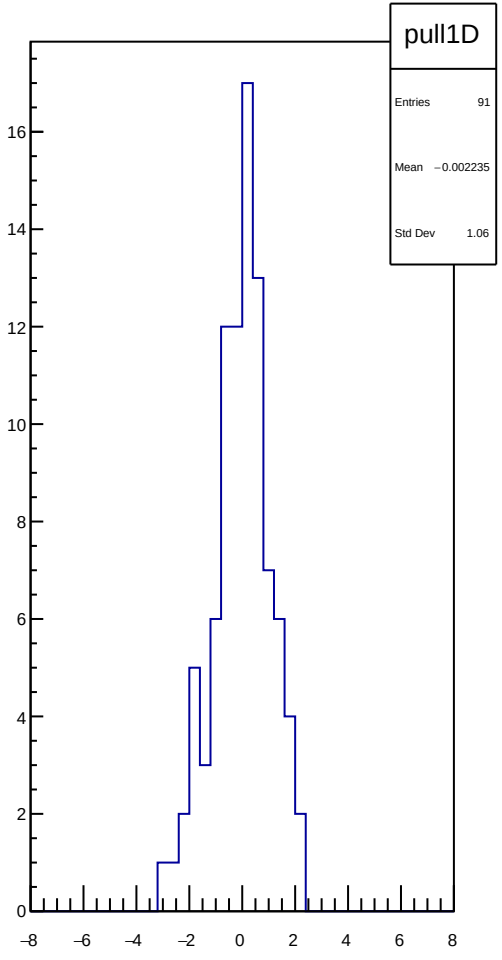

asym_bcm_an_us_an_ds_dd_rms vs run
χ² / ndf 4253 / 90
p0 10.43 ± 0.007896
12
11.5
11
10.5
10
9.5

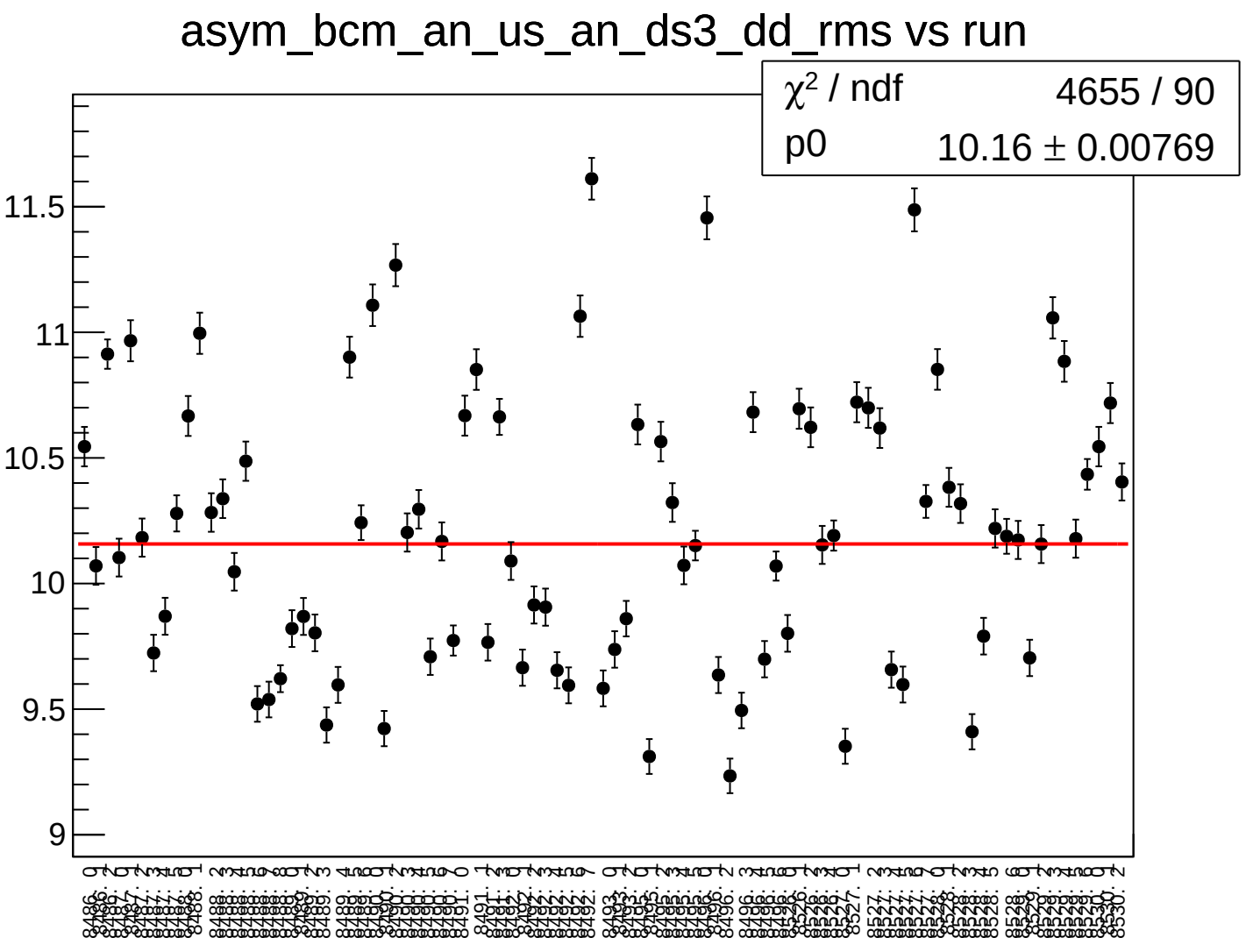

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 65.47 / 90
p0 903.3 ± 256.1
20000
15000
10000
5000
0
−5000
pull
Entries 91
Mean 26.09
Std Dev 0
7
6
5
4
3
2
1
0
−1

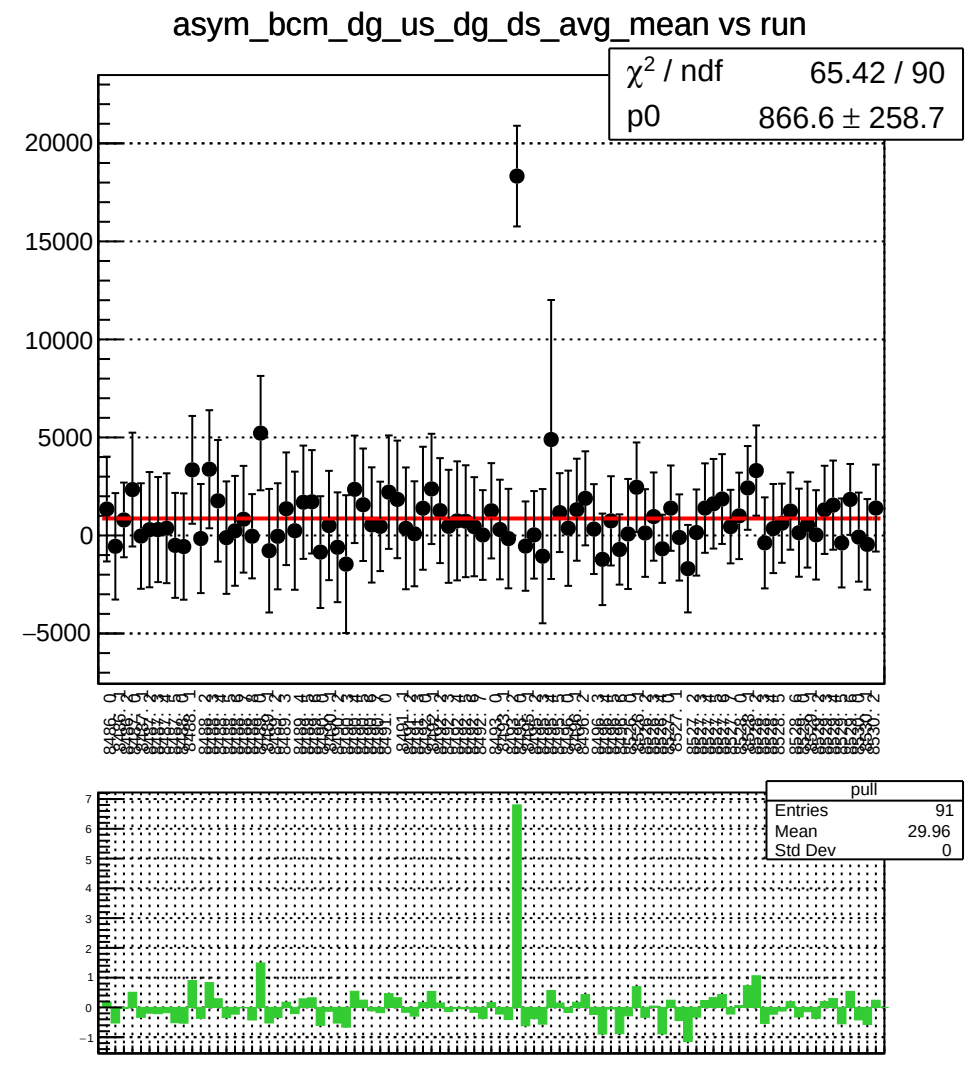

pull1D
Entries 91
Mean 0.01499
Std Dev 0.8481
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

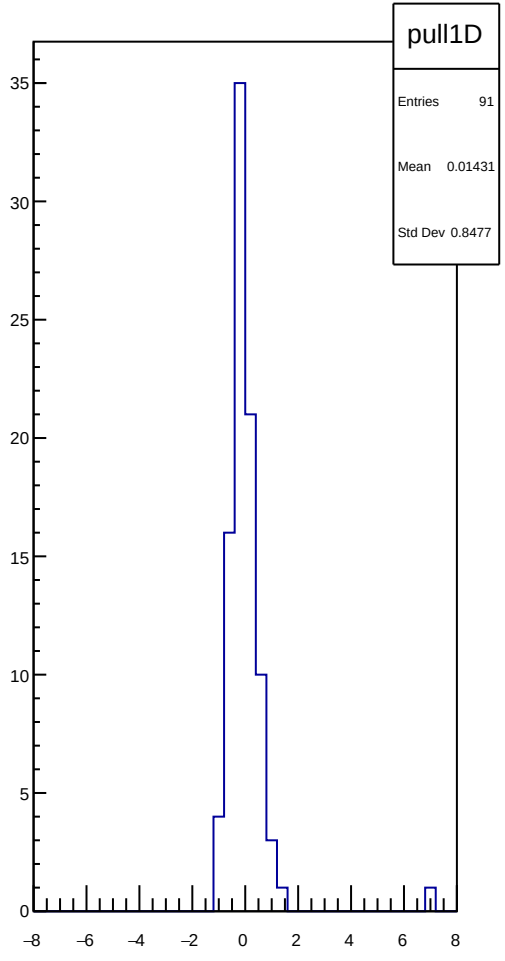

asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 3.461e+04 / 90
p0 237.2 ± 0.1811
700
600
500
400
300
200

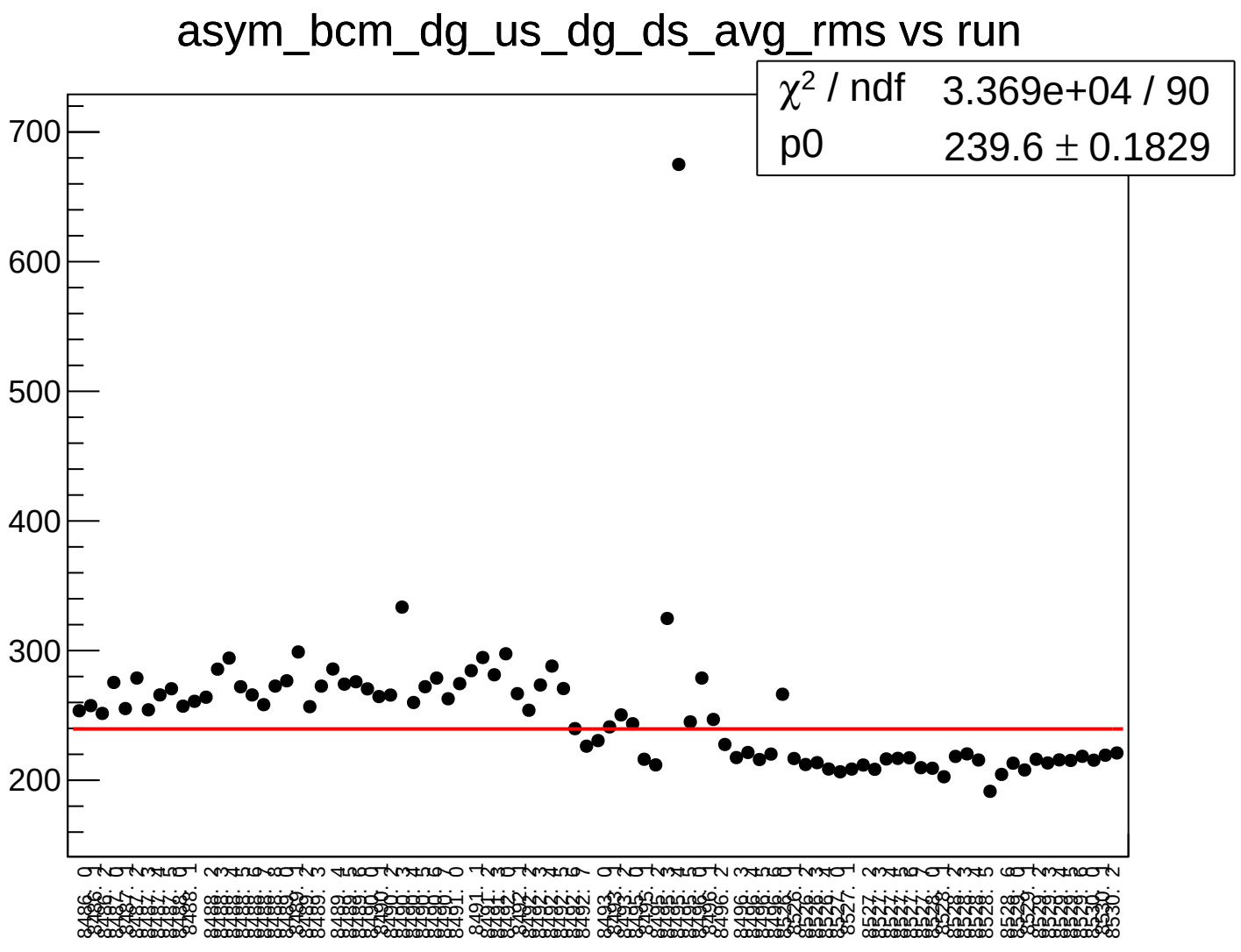

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 102.2 / 90
p0 −11.83 ± 10.88
pull
Entries 91
Mean 66.58
Std Dev 50.62

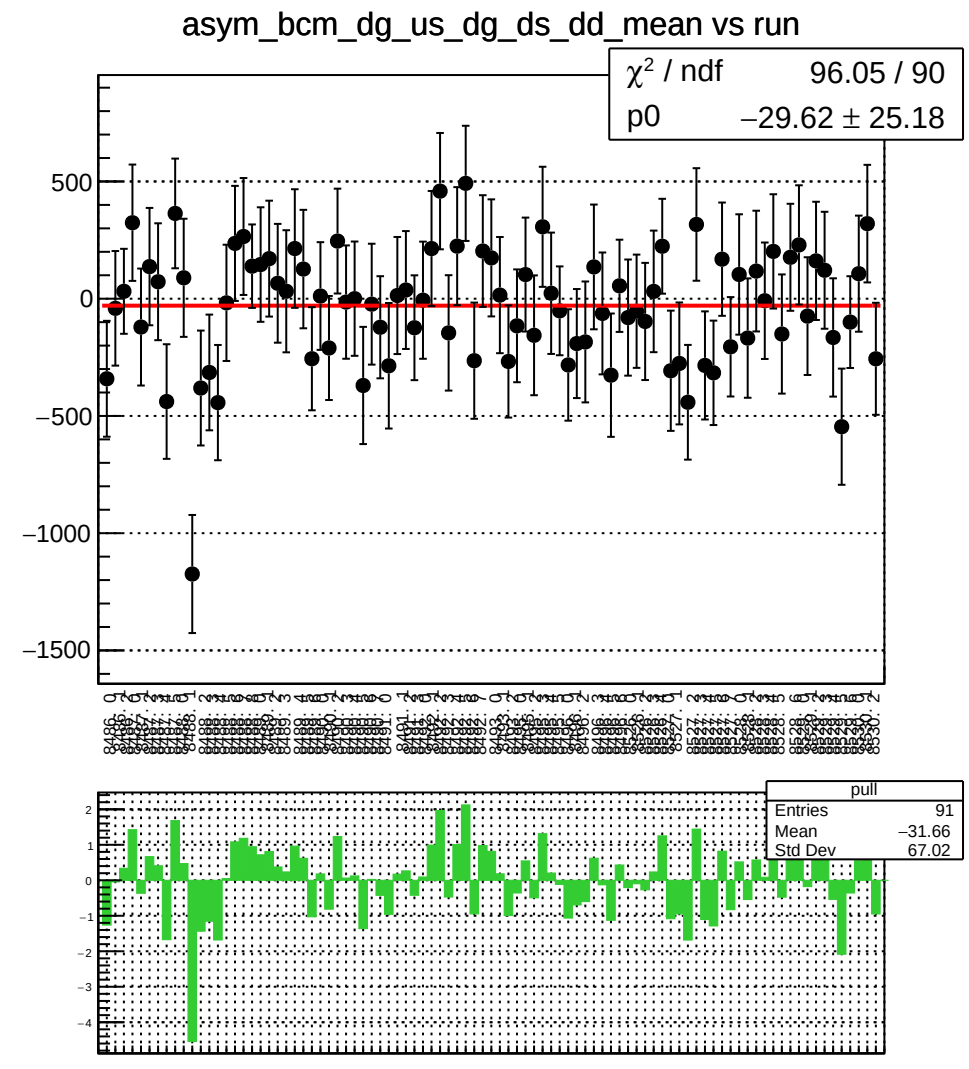

pull1D
Entries 91
Mean −0.002235
Std Dev 1.06

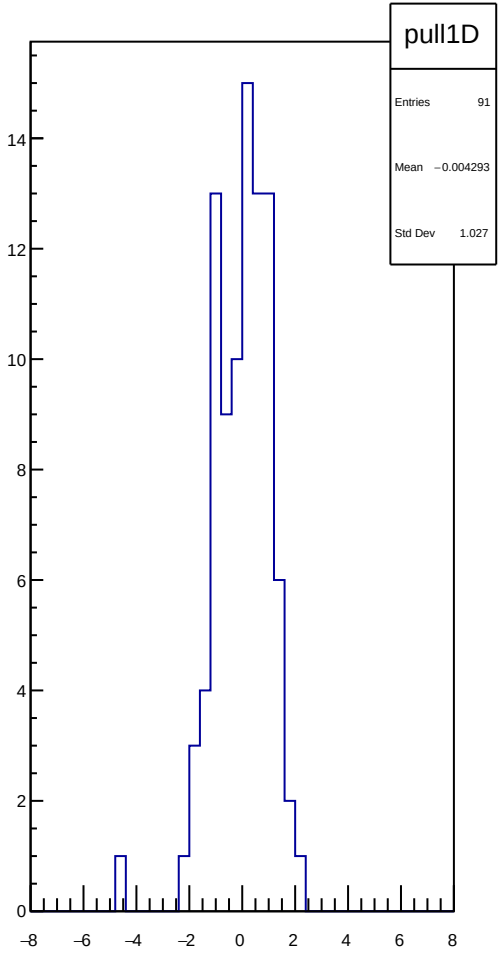

asym_bcm_an_us_an_ds3_dd_rms vs run
χ² / ndf 4655 / 90
p0 10.16 ± 0.00769
11.5
11
10.5
10
9.5
9

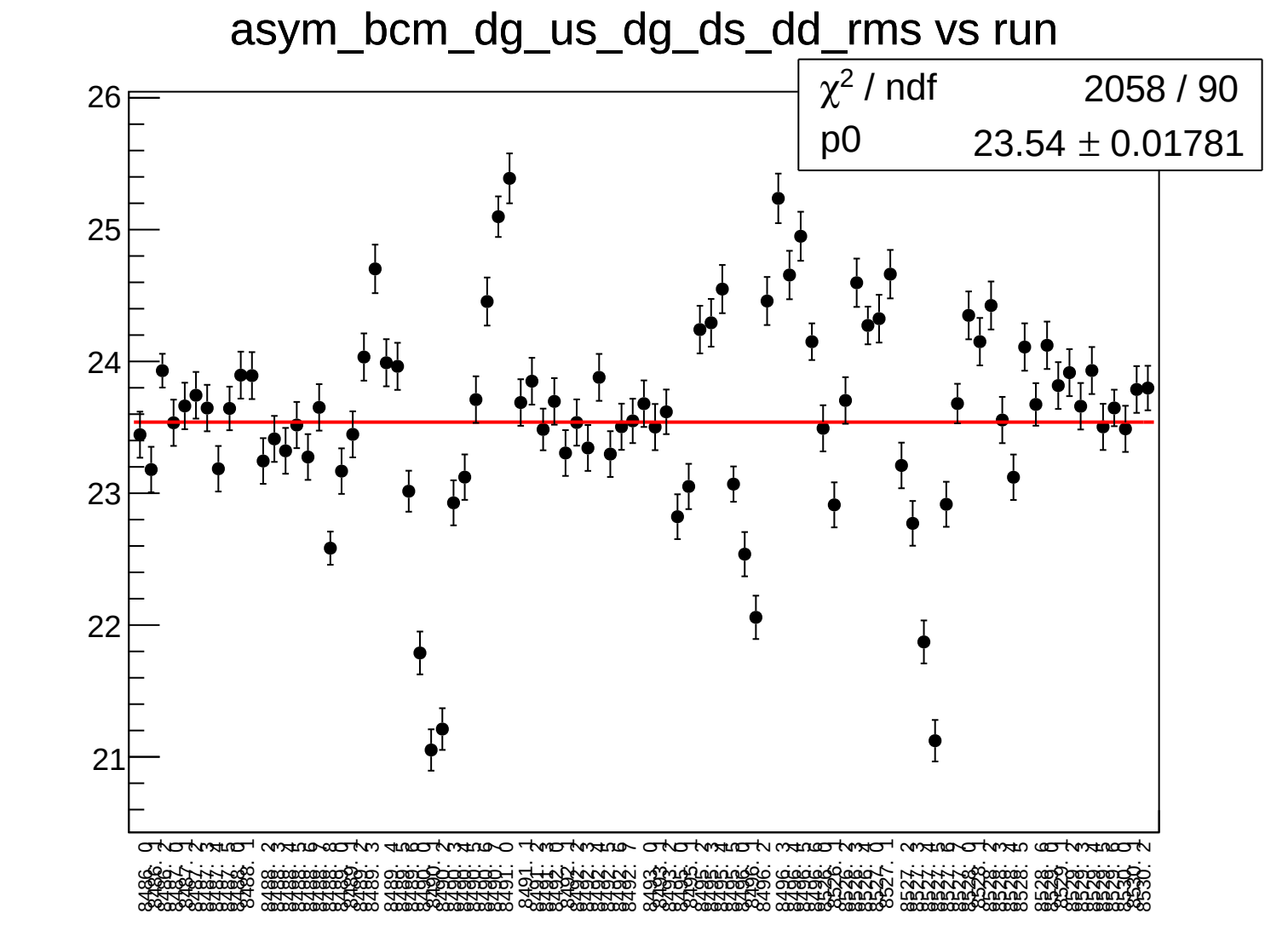

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 65.42 / 90
p0 866.6 ± 258.7
20000
15000
10000
5000
0
−5000
pull
Entries 91
Mean 29.96
Std Dev 0
7
6
5
4
3
2
1
0
−1

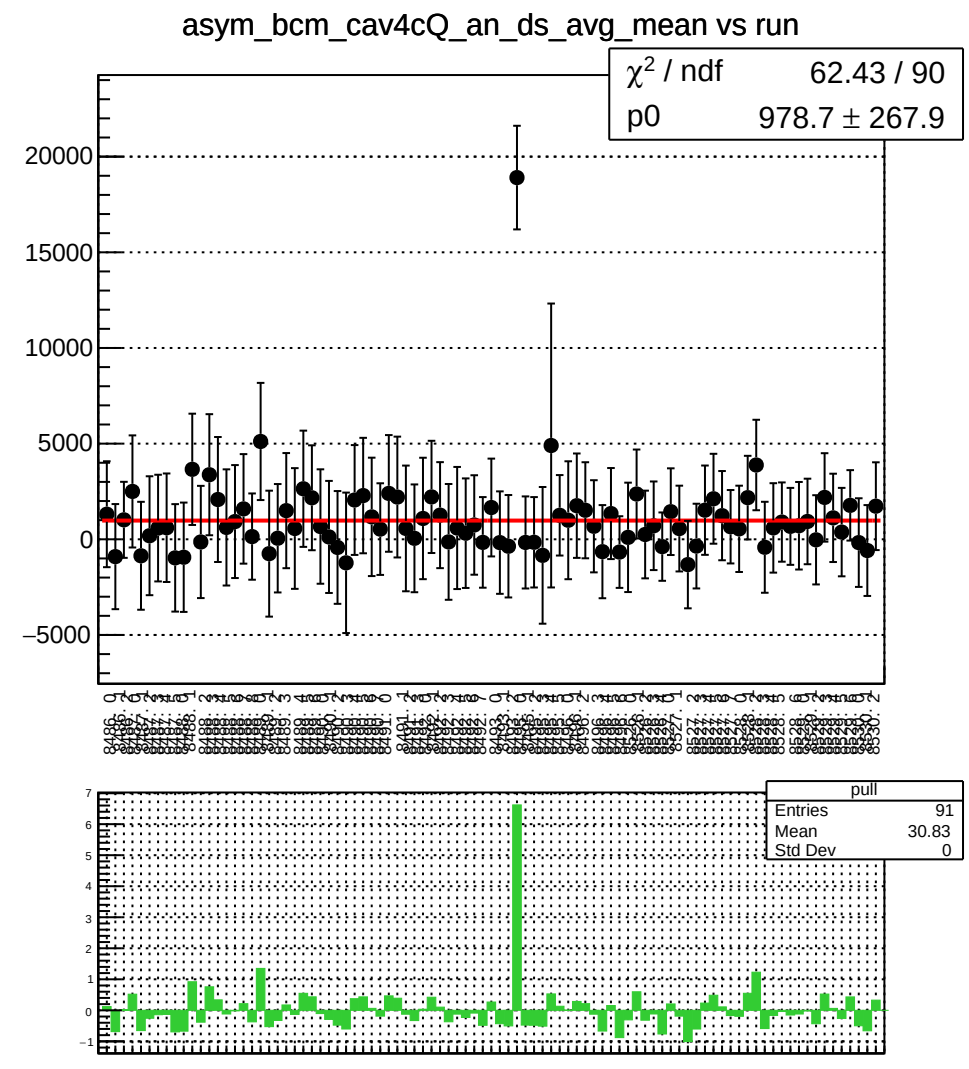

pull1D
Entries 91
Mean 0.01431
Std Dev 0.8477
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

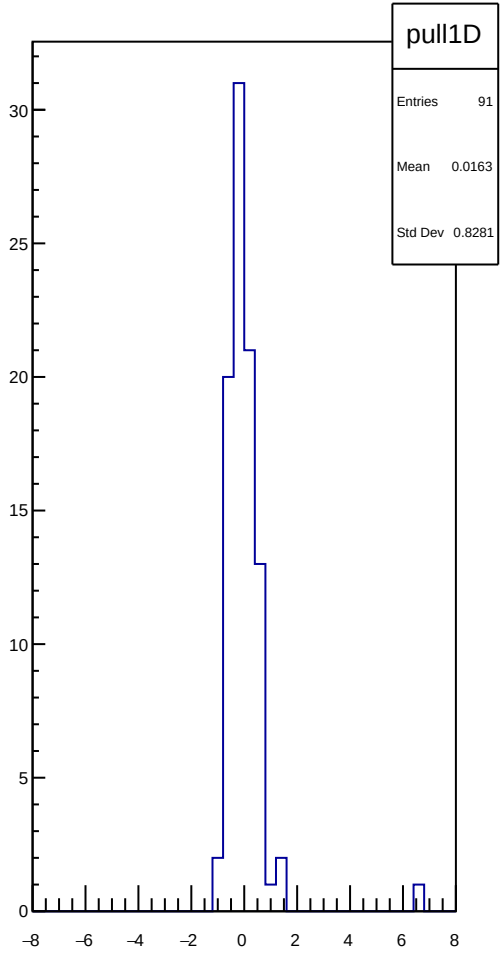

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 3.369e+04 / 90
p0 239.6 ± 0.1829
700
600
500
400
300
200

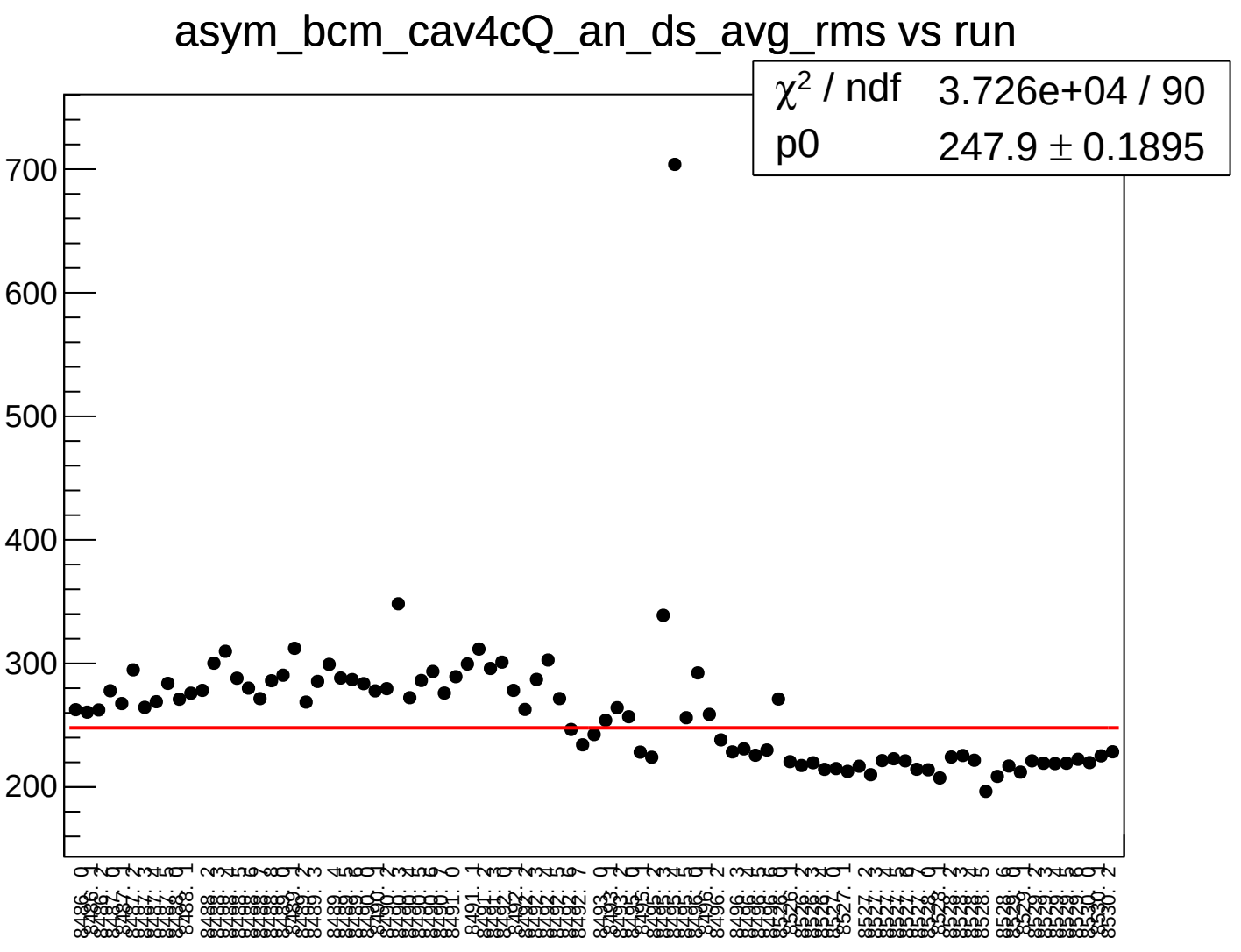

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 96.05 / 90
p0 −29.62 ± 25.18
500
0
−500
−1000
−1500
pull
Entries 91
Mean −31.66
Std Dev 67.02
2
1
0
−1
−2
−3
−4

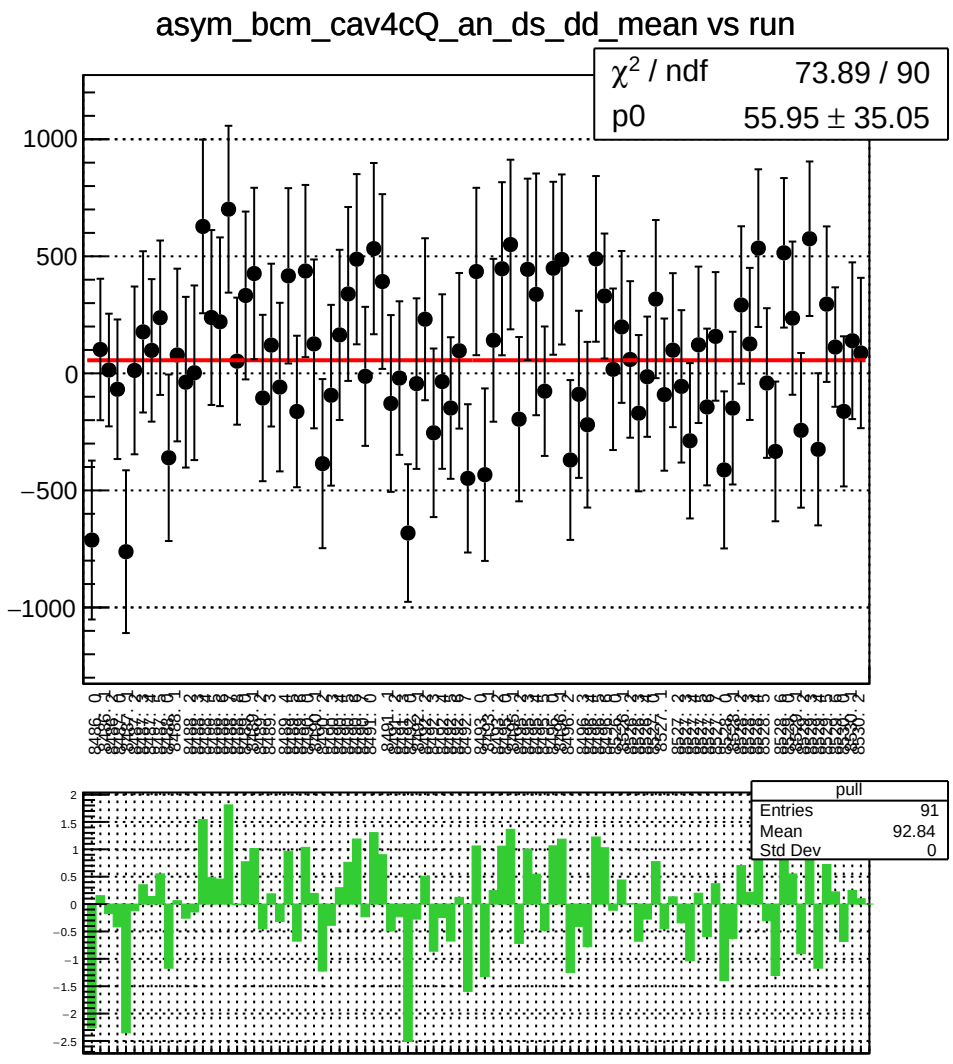

pull1D
Entries 91
Mean −0.004293
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

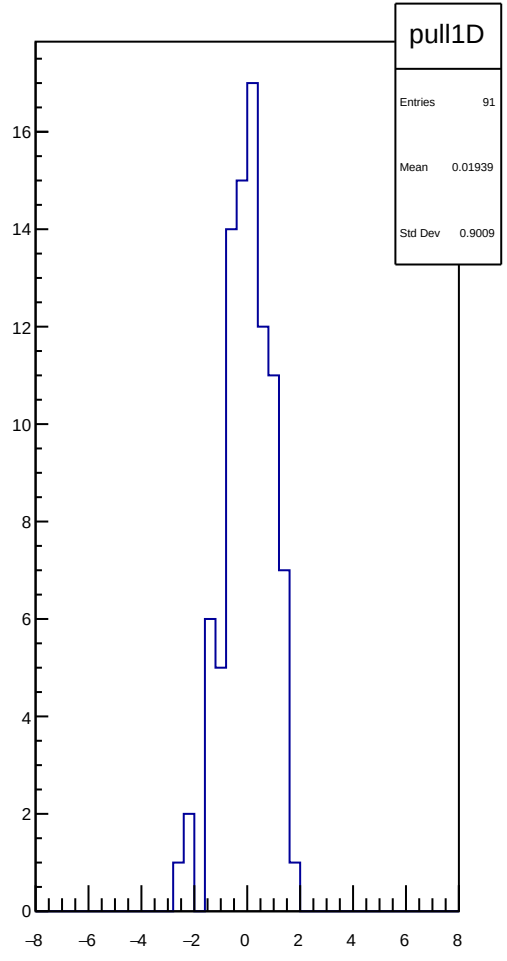

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 2058 / 90
p0 23.54 ± 0.01781
26
25
24
23
22
21

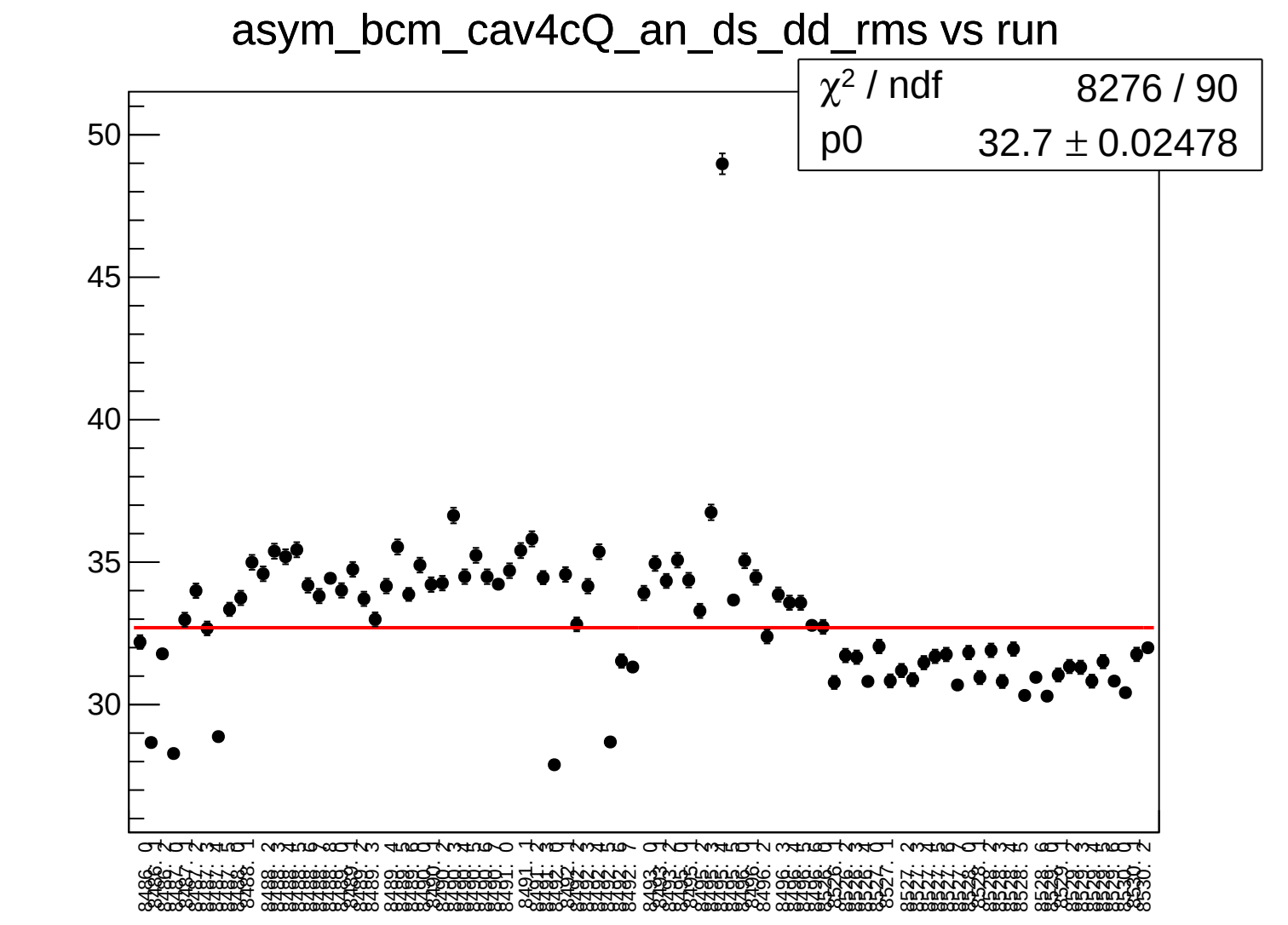

asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 62.43 / 90
p0 978.7 ± 267.9
20000
15000
10000
5000
0
−5000
pull
Entries 91
Mean 30.83
Std Dev 0
7
6
5
4
3
2
1
0
−1

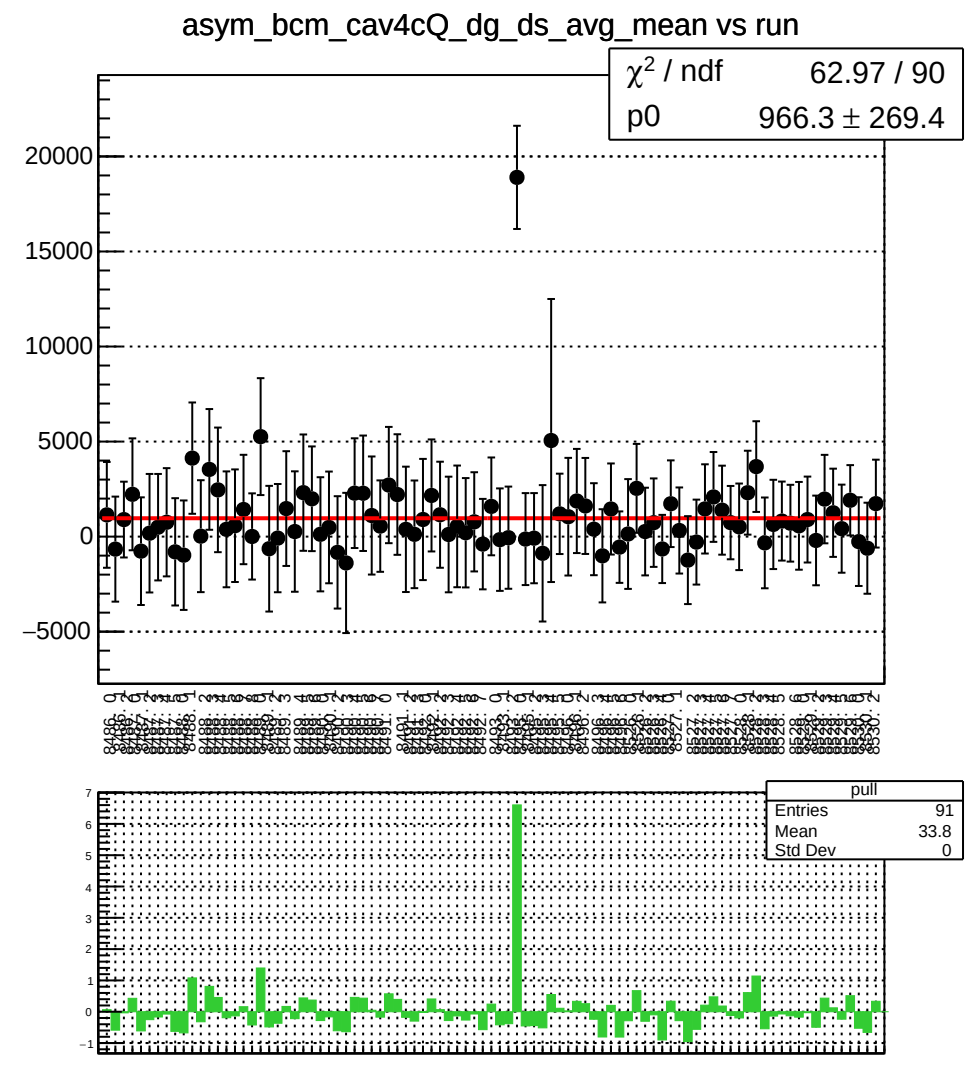

pull1D
Entries 91
Mean 0.0163
Std Dev 0.8281
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

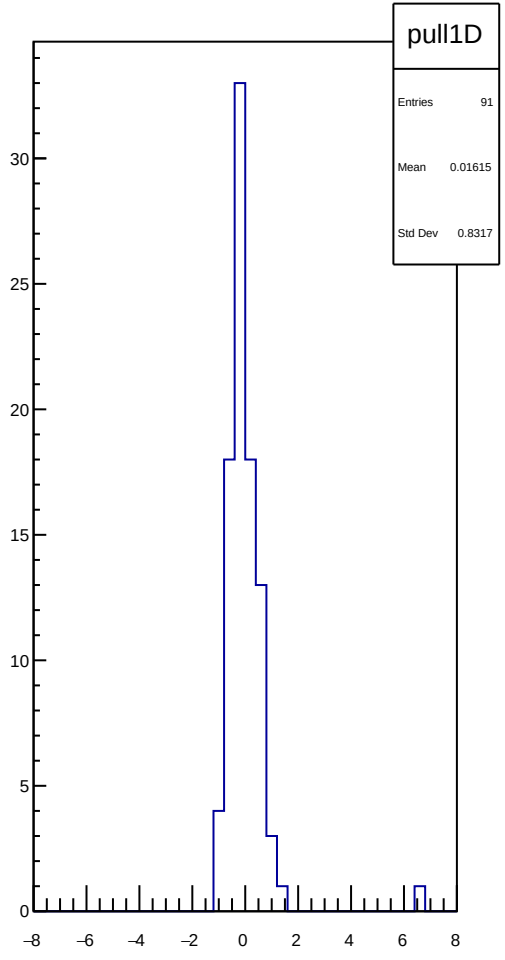

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 3.726e+04 / 90
p0 247.9 ± 0.1895
700
600
500
400
300
200

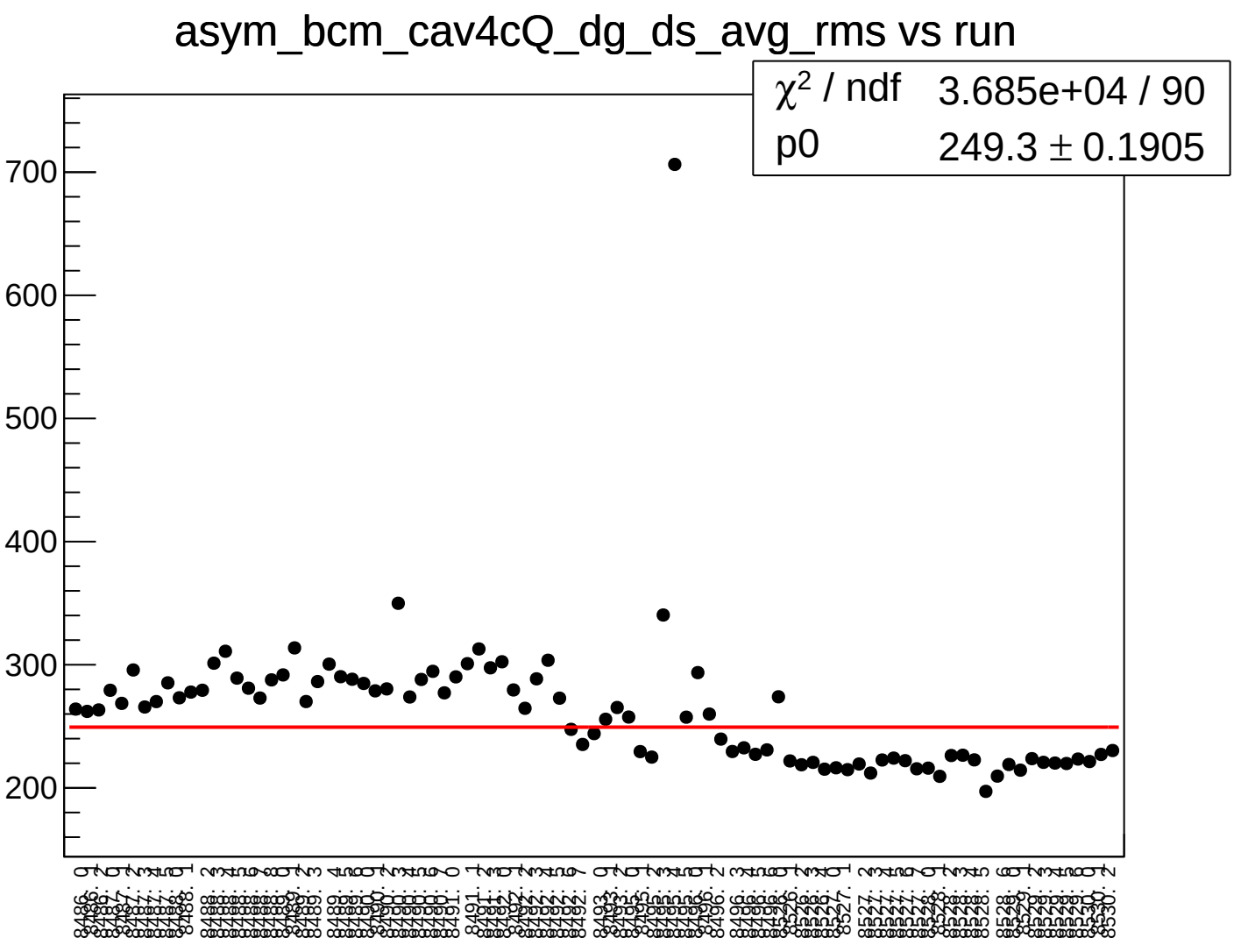

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 73.89 / 90
p0 55.95 ± 35.05
1000
500
0
−500
−1000
pull
Entries 91
Mean 92.84
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

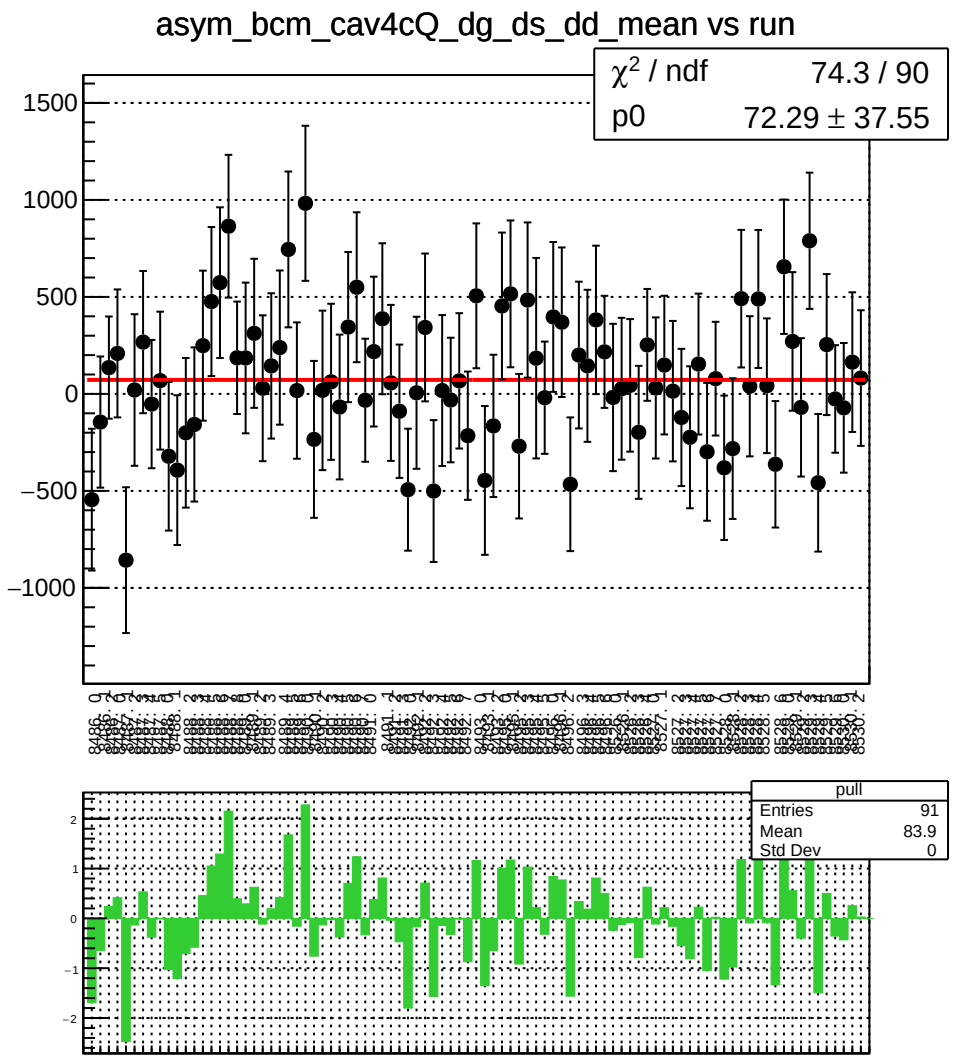

pull1D
Entries 91
Mean 0.01939
Std Dev 0.9009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

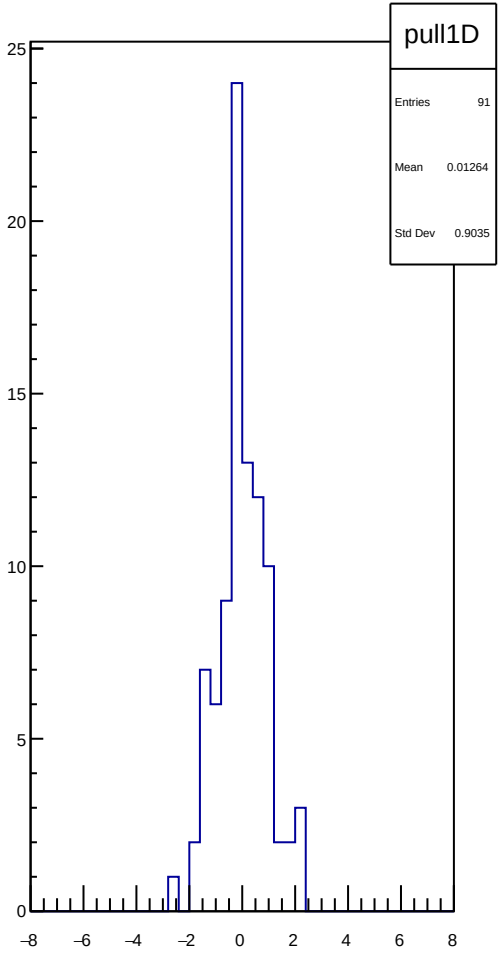

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 8276 / 90
p0 32.7 ± 0.02478
50
45
40
35
30

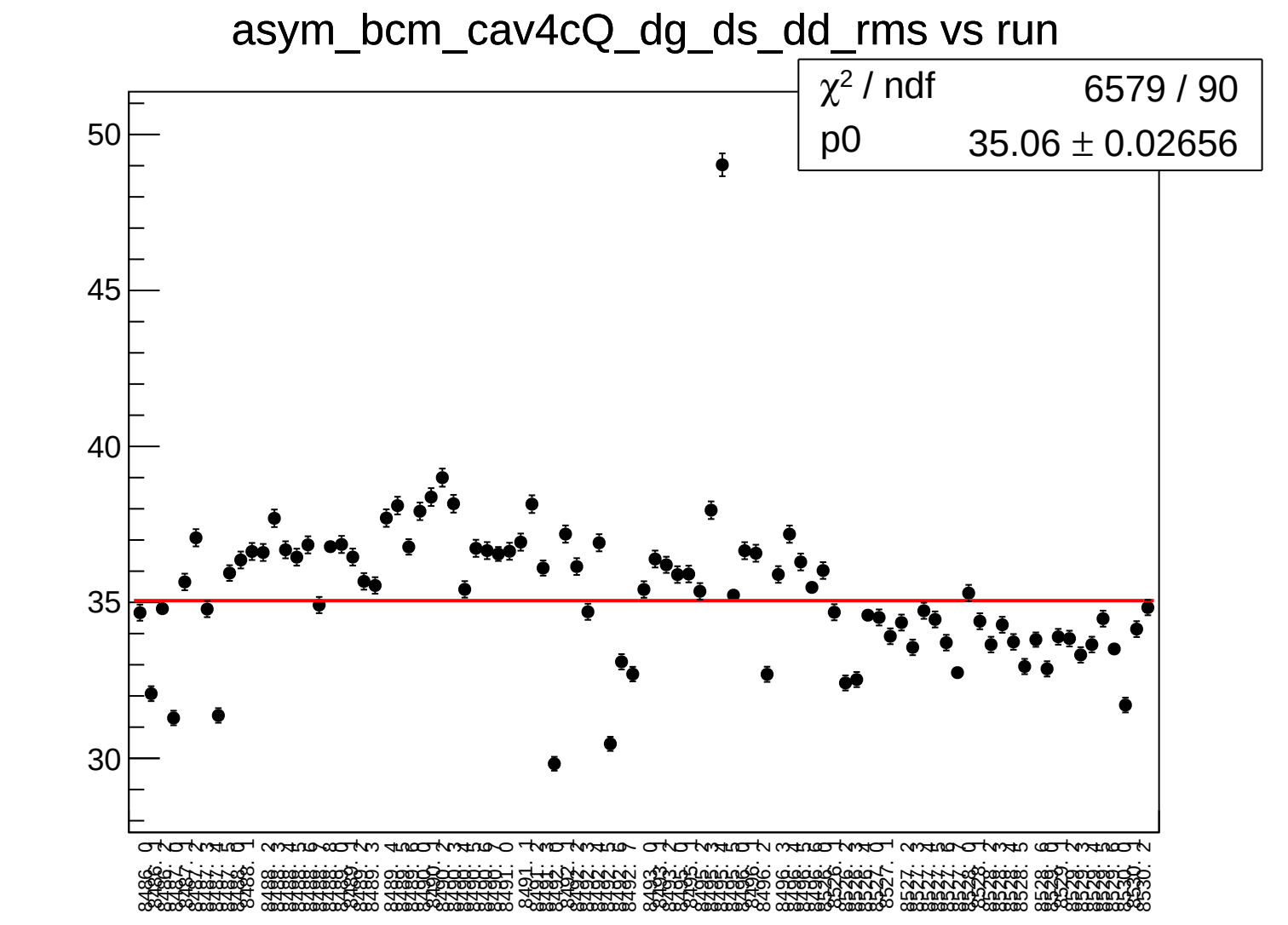

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ^2 / ndf 62.97 / 90
p0 966.3 ± 269.4
20000
15000
10000
5000
0
−5000
pull
Entries 91
Mean 33.8
Std Dev 0
7
6
5
4
3
2
1
0
−1

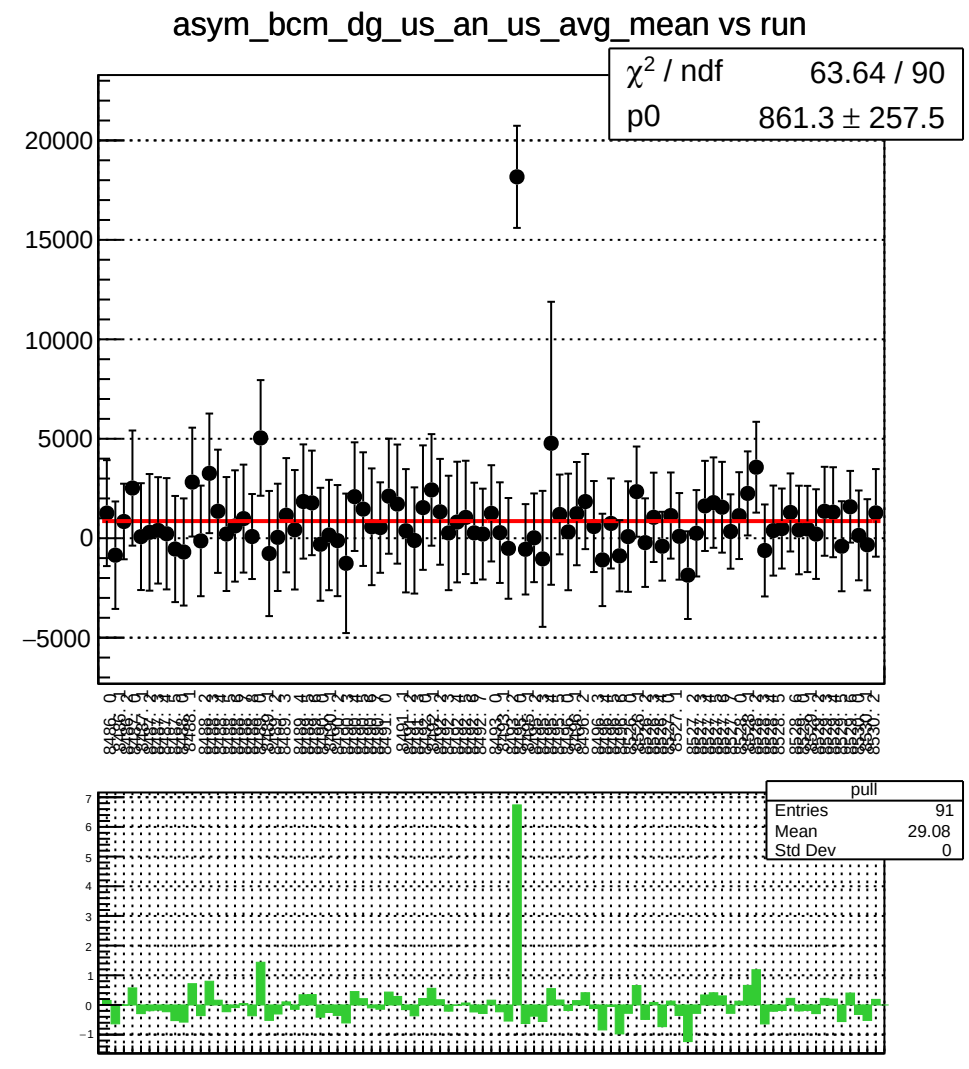

pull1D
Entries 91
Mean 0.01615
Std Dev 0.8317
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

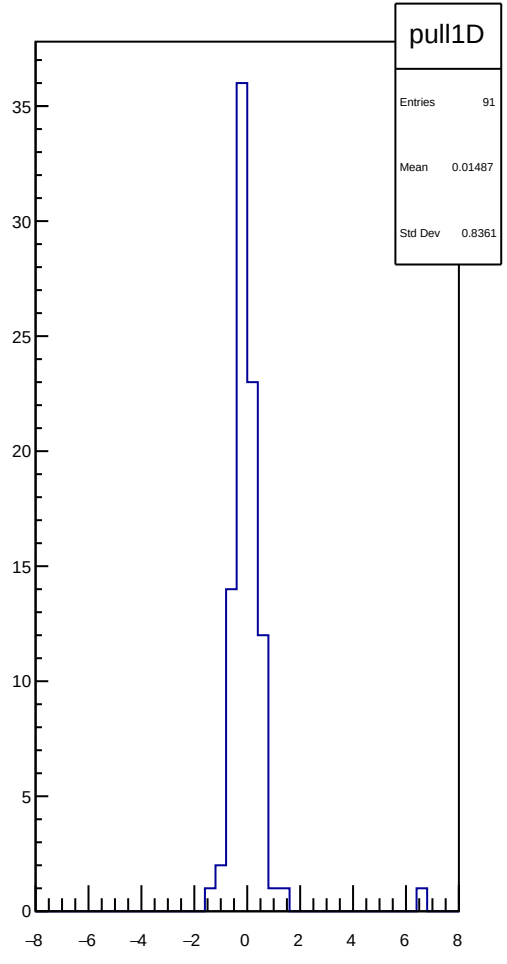

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 3.685e+04 / 90
p0 249.3 ± 0.1905
700
600
500
400
300
200

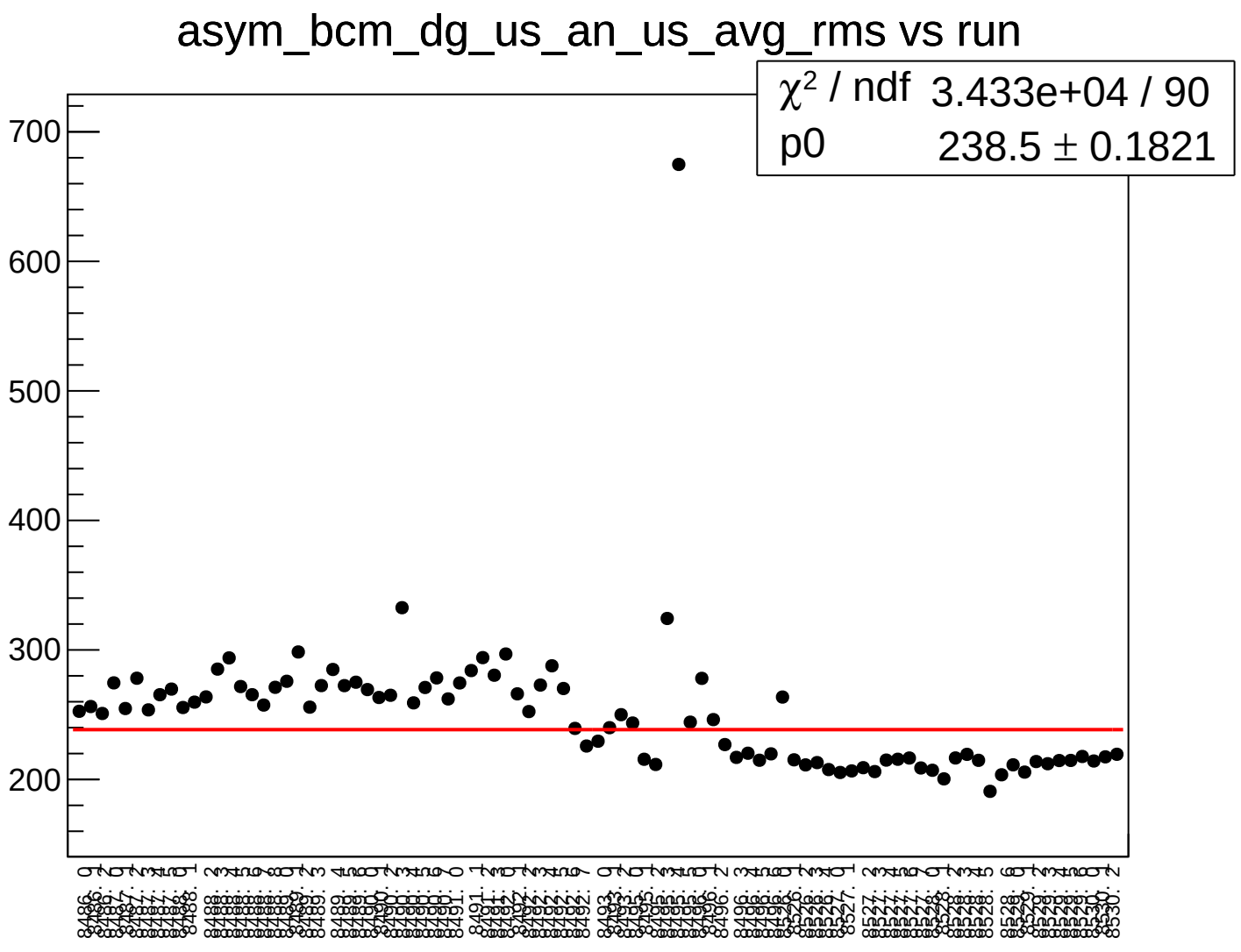

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 74.3 / 90
p0 72.29 ± 37.55
pull
Entries 91
Mean 83.9
Std Dev 0

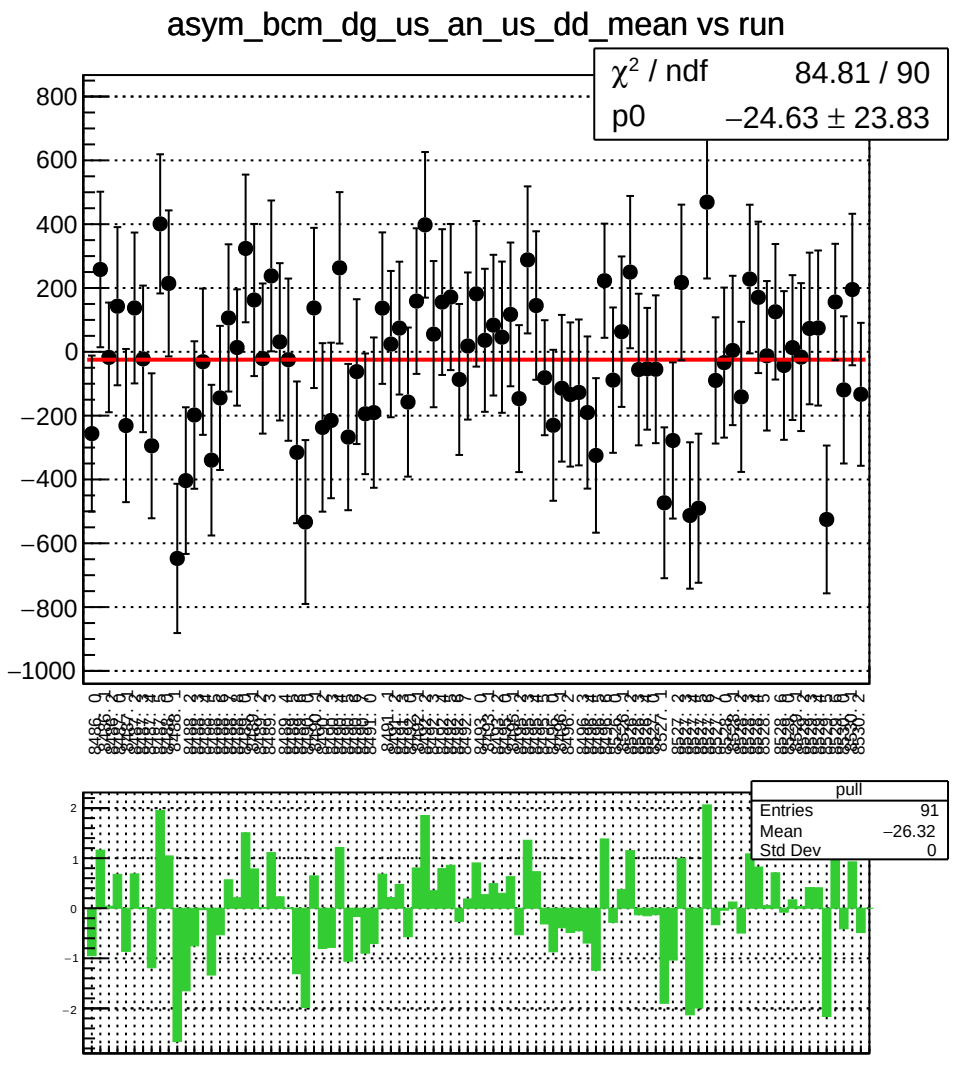

pull1D
Entries 91
Mean 0.01264
Std Dev 0.9035

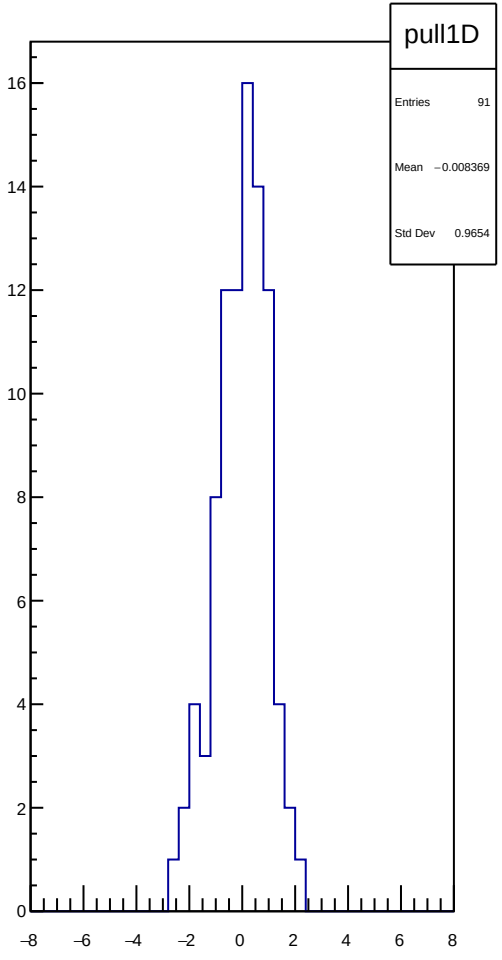

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 6579 / 90
p0 35.06 ± 0.02656
50
45
40
35
30

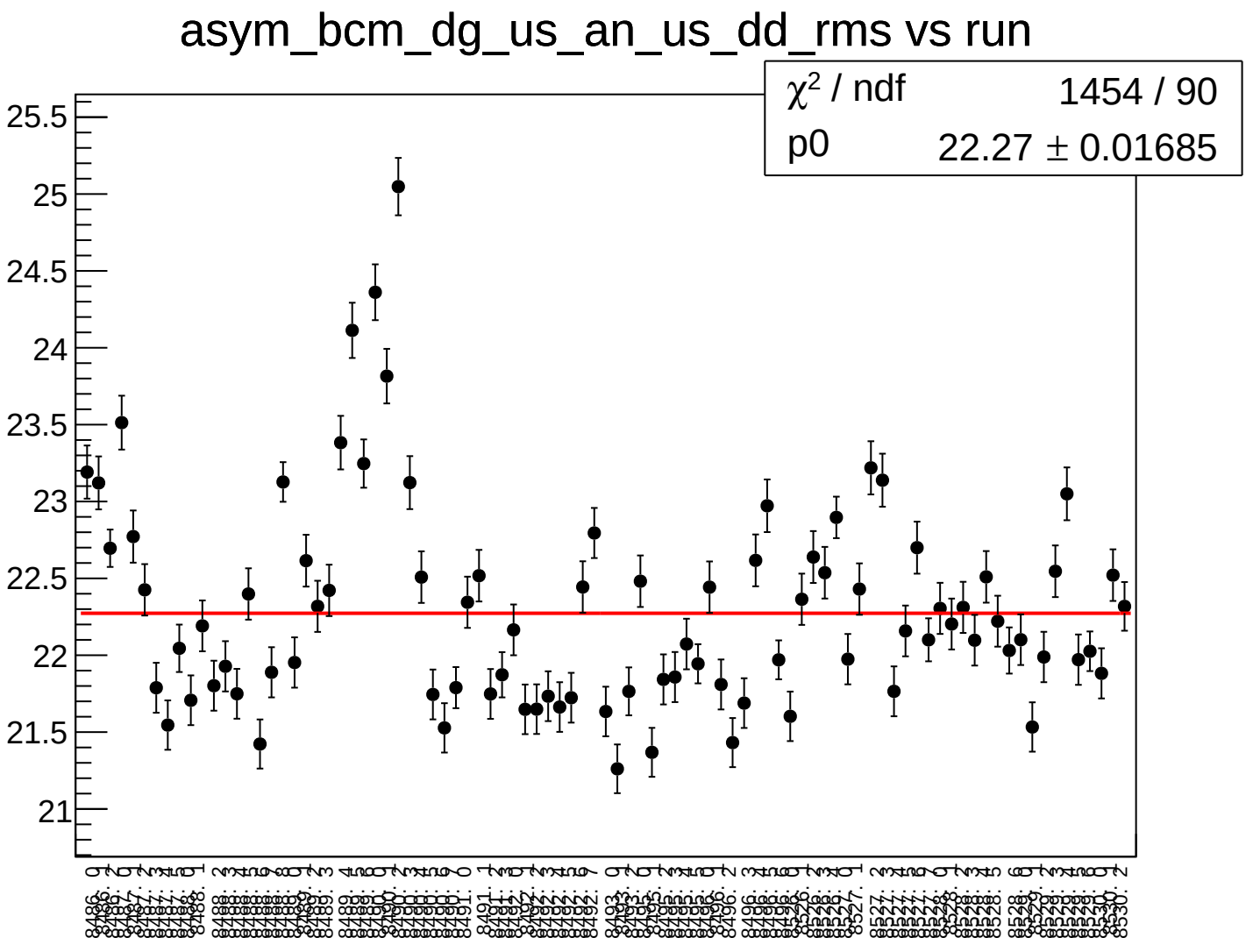

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 63.64 / 90
p0 861.3 ± 257.5
20000
15000
10000
5000
0
−5000
pull
Entries 91
Mean 29.08
Std Dev 0
7
6
5
4
3
2
1
0
−1

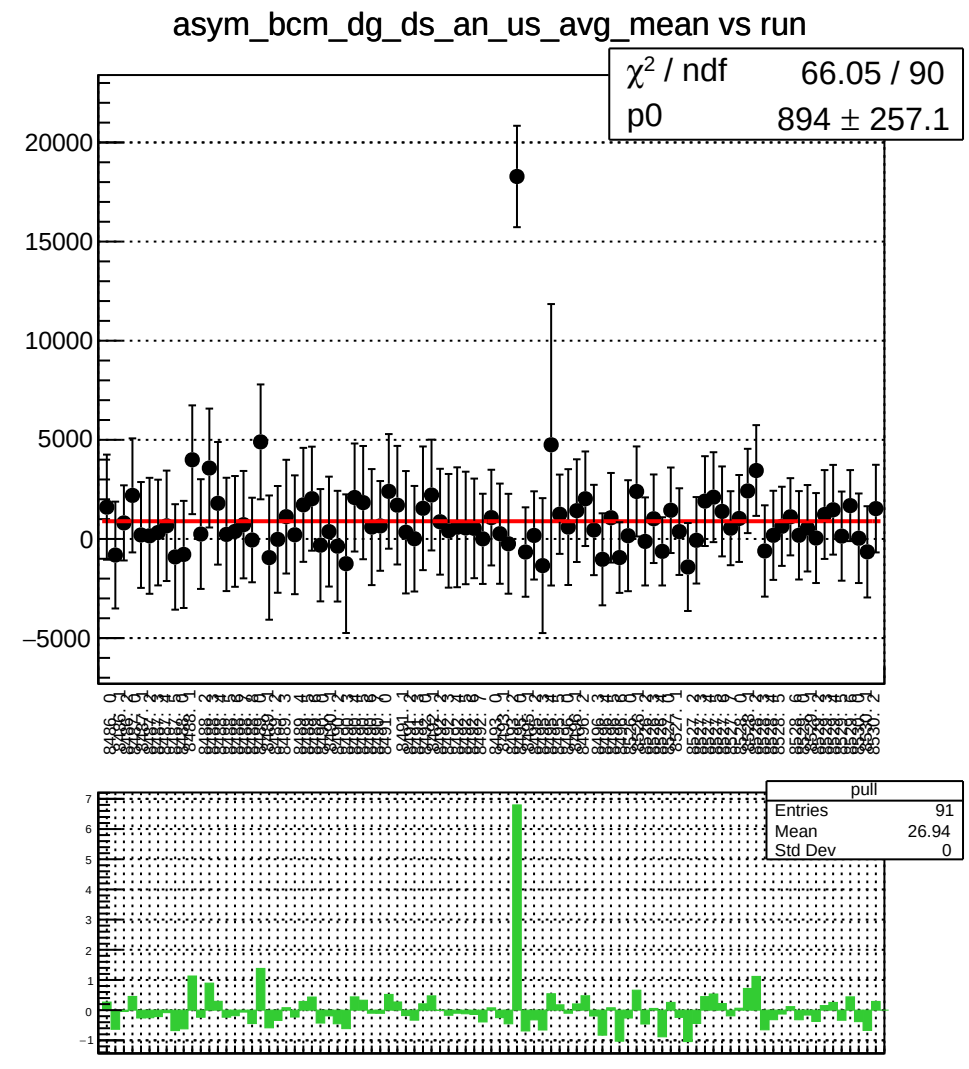

pull1D
Entries 91
Mean 0.01487
Std Dev 0.8361
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

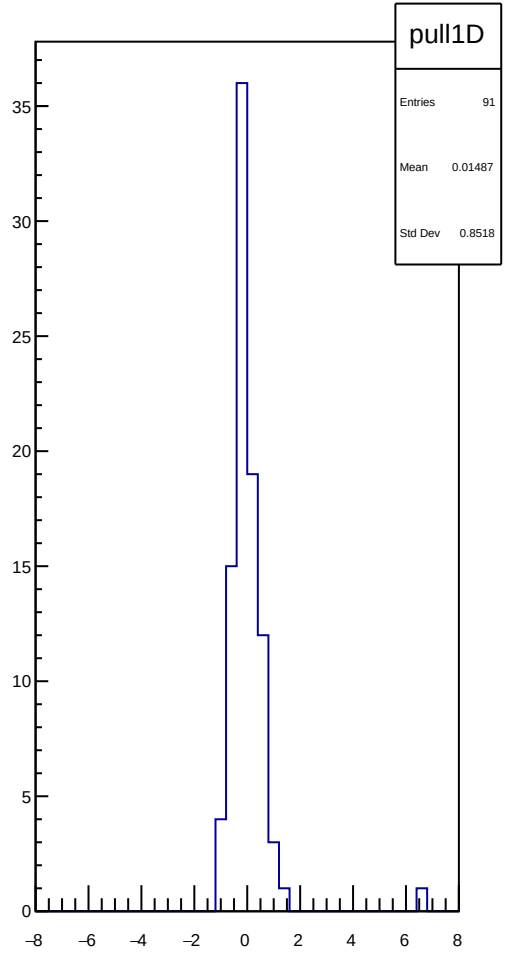

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 3.433e+04 / 90
p0 238.5 ± 0.1821
700
600
500
400
300
200

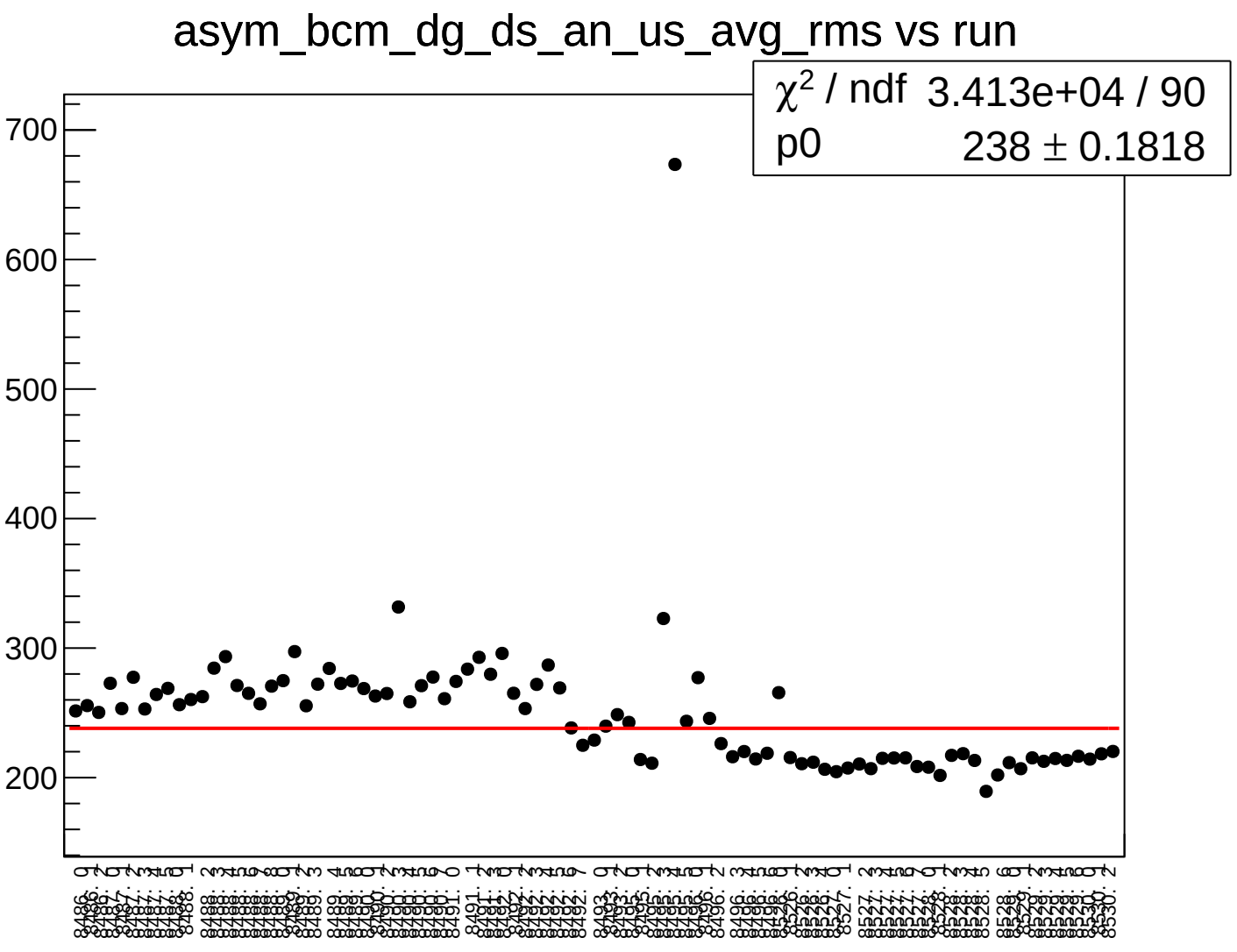

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 84.81 / 90
p0 −24.63 ± 23.83
pull
Entries 91
Mean −26.32
Std Dev 0

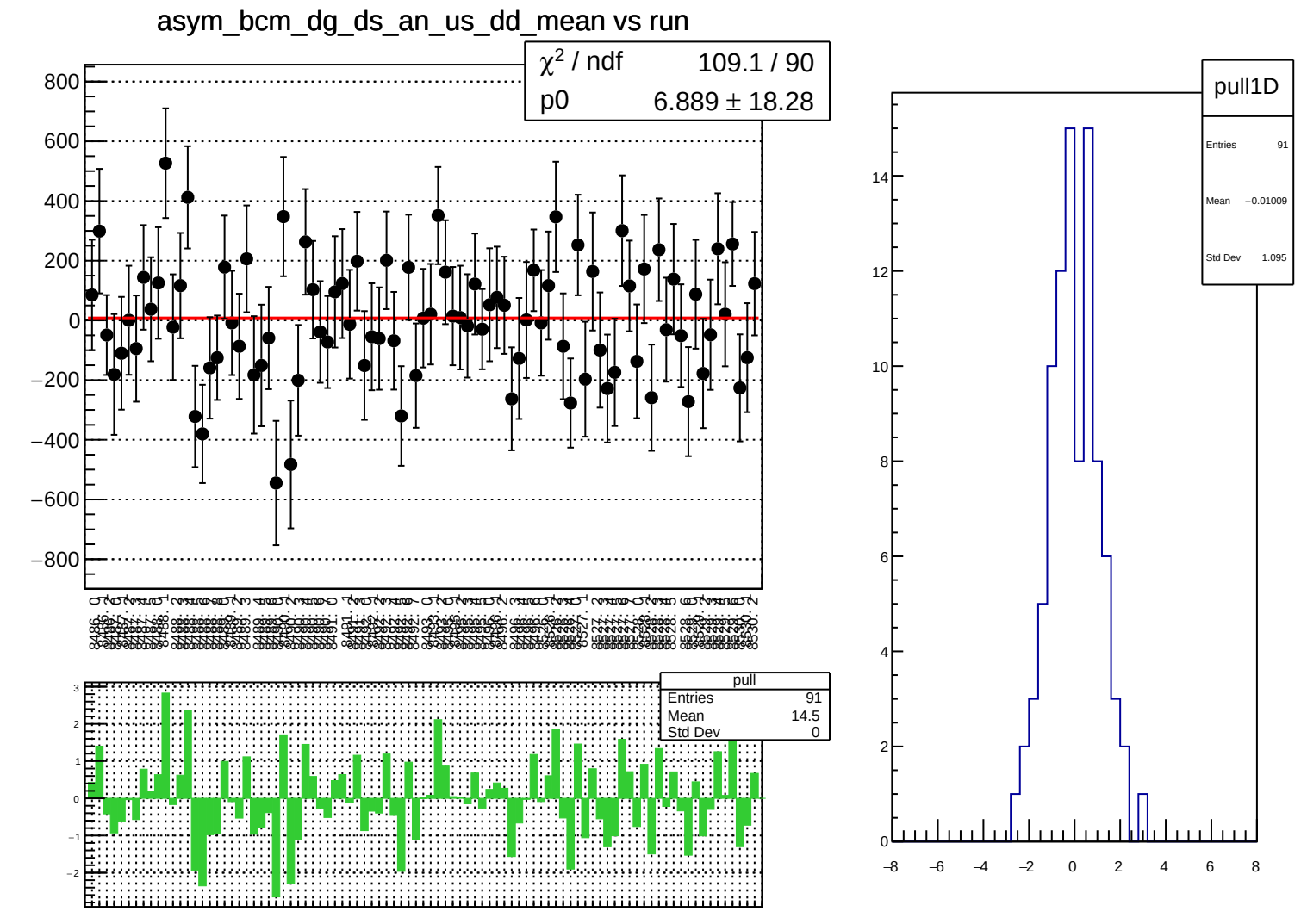

pull1D
Entries 91
Mean −0.008369
Std Dev 0.9654

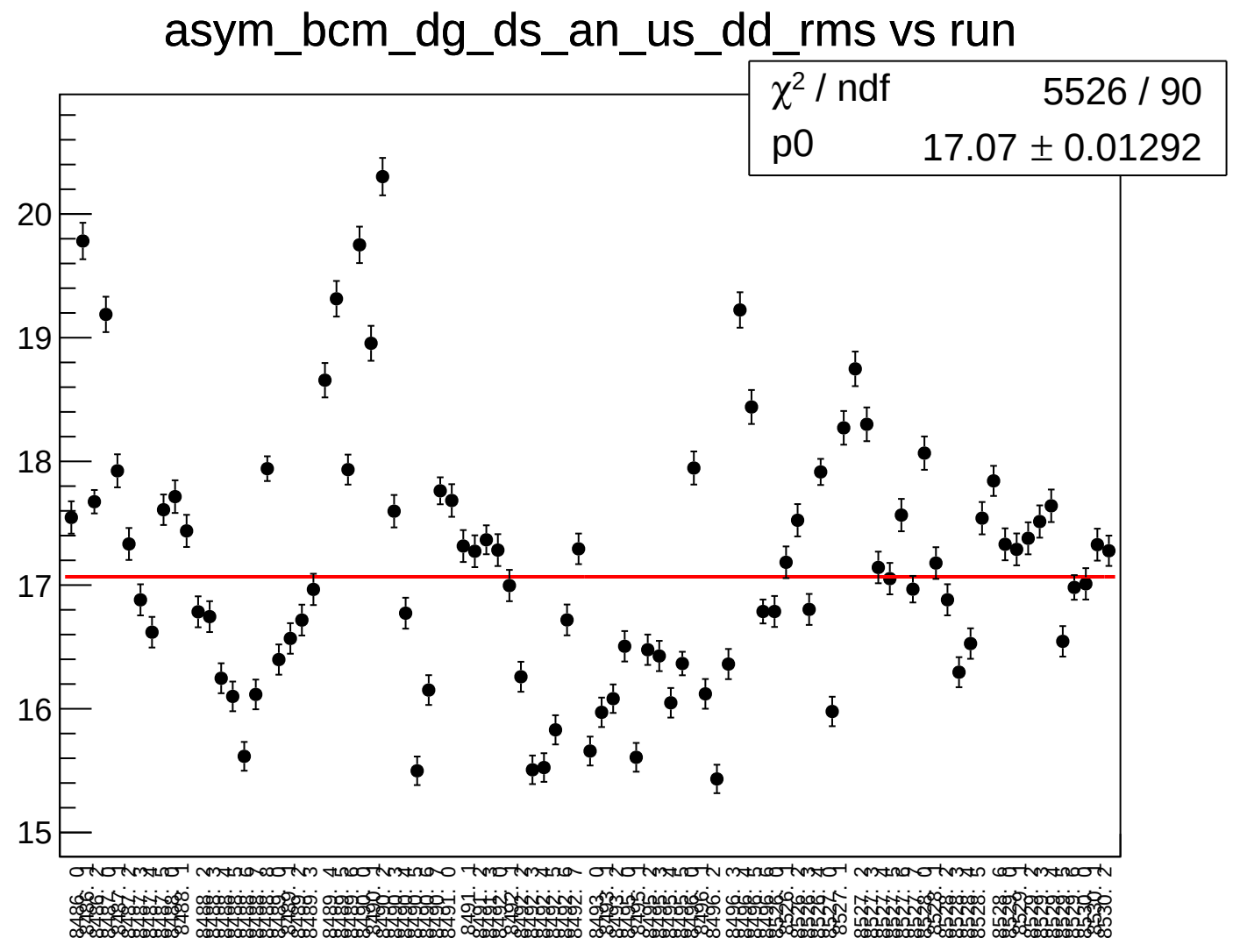

asym_bcm_dg_us_an_us_dd_rms vs run
χ² / ndf 1454 / 90
p0 22.27 ± 0.01685
25.5
25
24.5
24
23.5
23
22.5
22
21.5
21

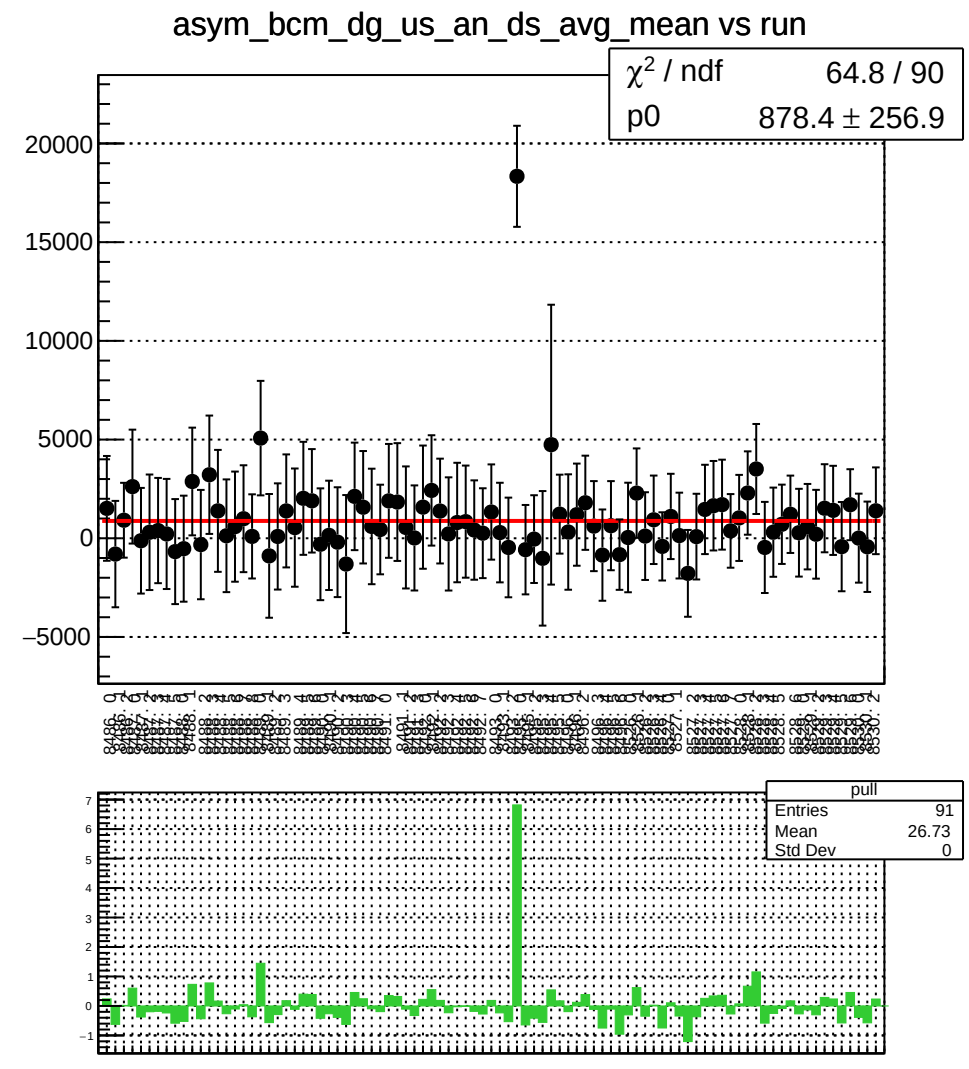

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 66.05 / 90
p0 894 ± 257.1
20000
15000
10000
5000
0
−5000
pull
Entries 91
Mean 26.94
Std Dev 0
7
6
5
4
3
2
1
0
−1

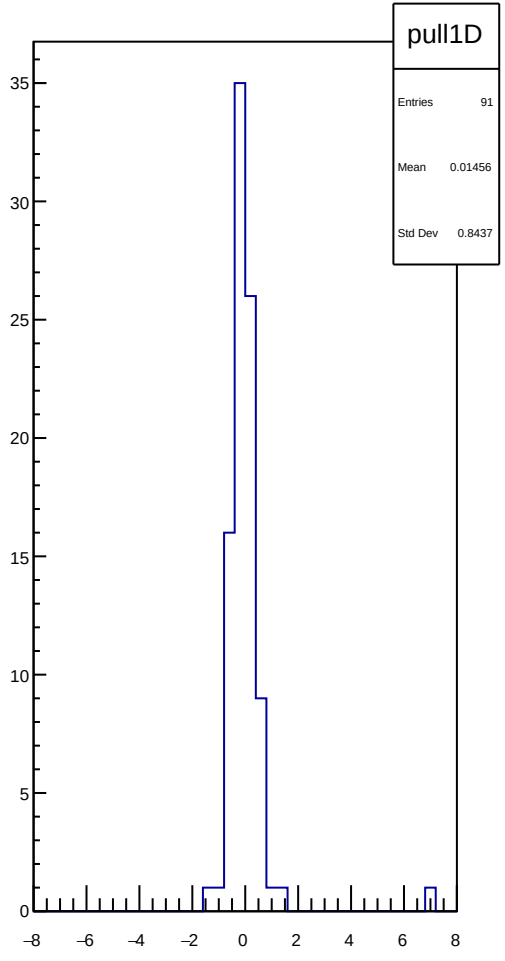

pull1D
Entries 91
Mean 0.01487
Std Dev 0.8518
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

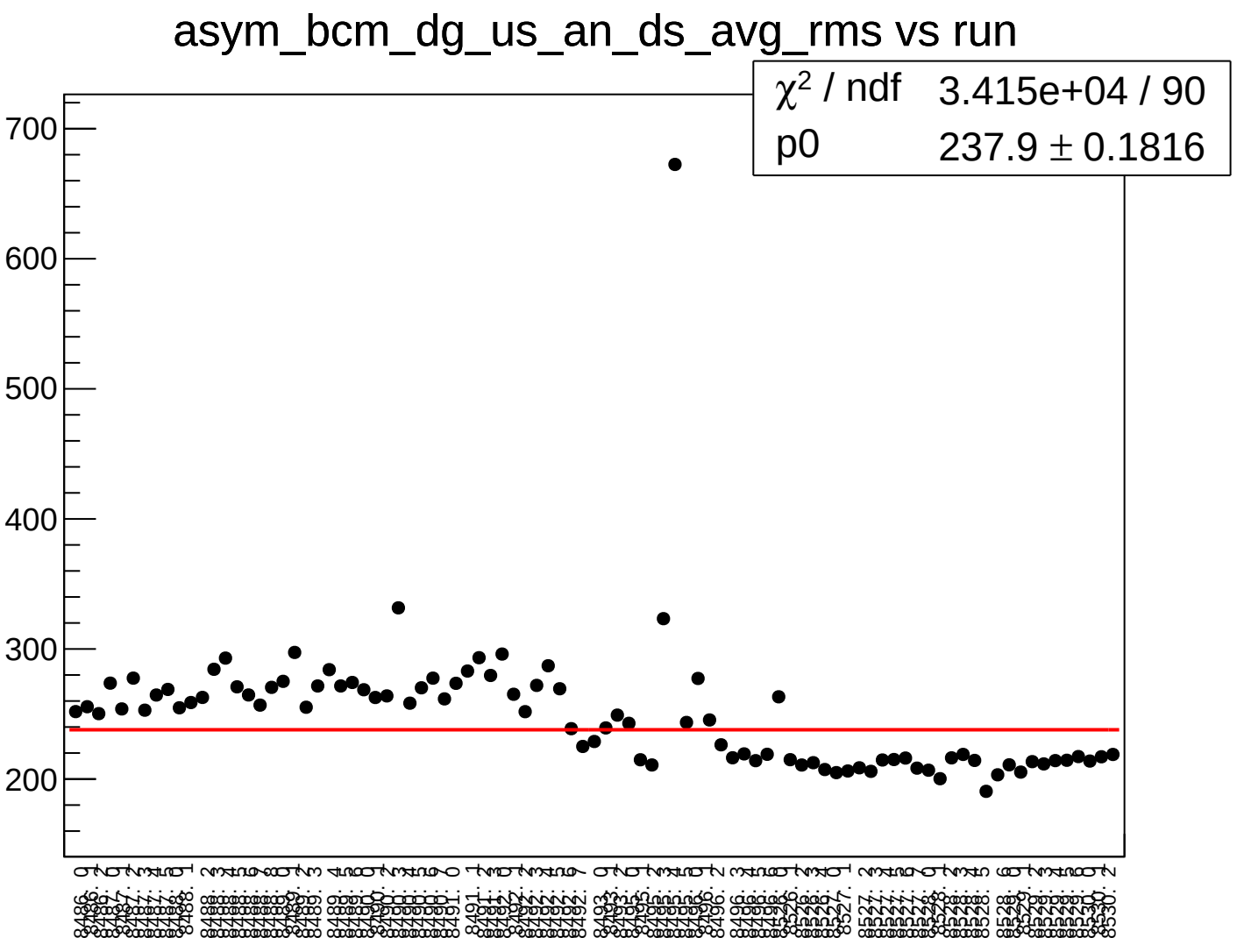

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 3.413e+04 / 90
p0 238 ± 0.1818
700
600
500
400
300
200

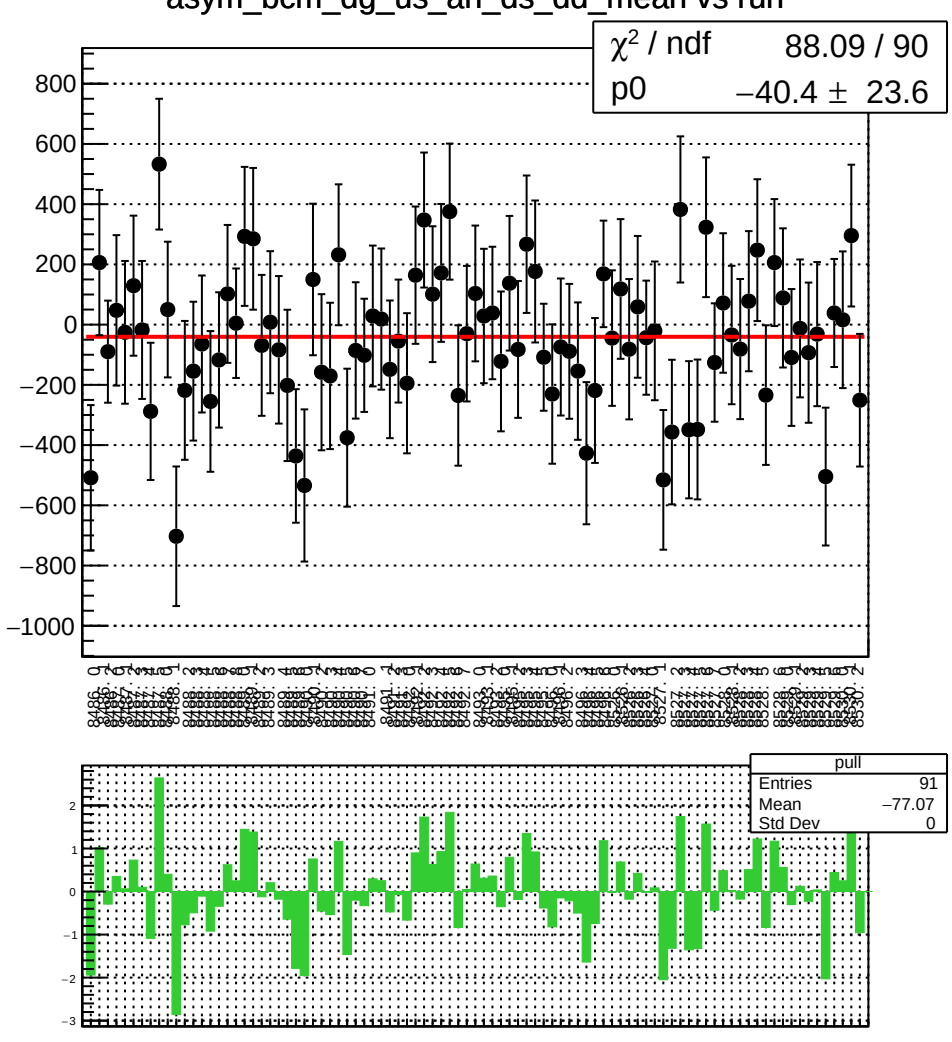

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 109.1 / 90
p0 6.889 ± 18.28
pull
Entries 91
Mean 14.5
Std Dev 0
pull1D
Entries 91
Mean −0.01009
Std Dev 1.095

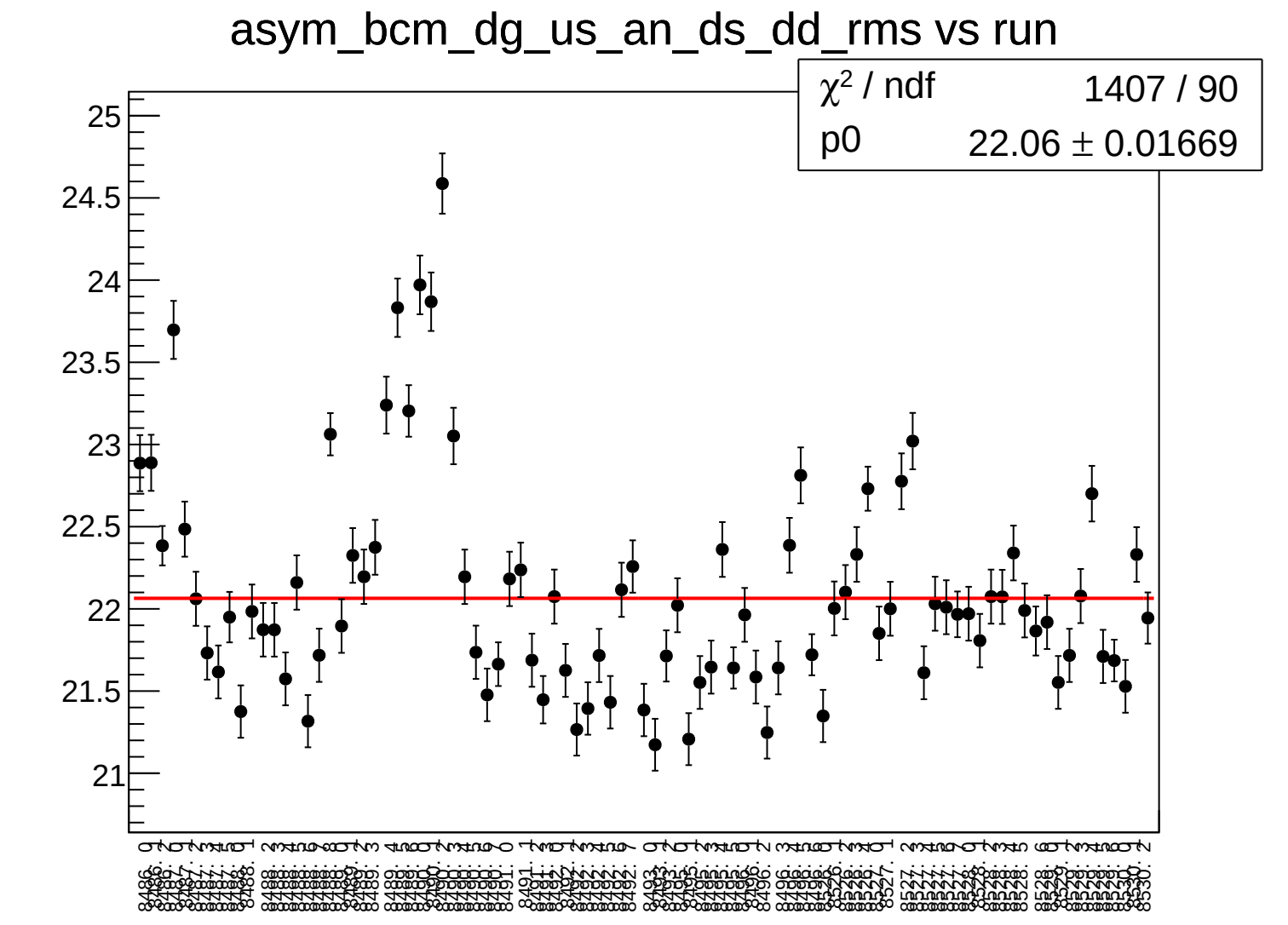

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 5526 / 90
p0 17.07 ± 0.01292
20
19
18
17
16
15

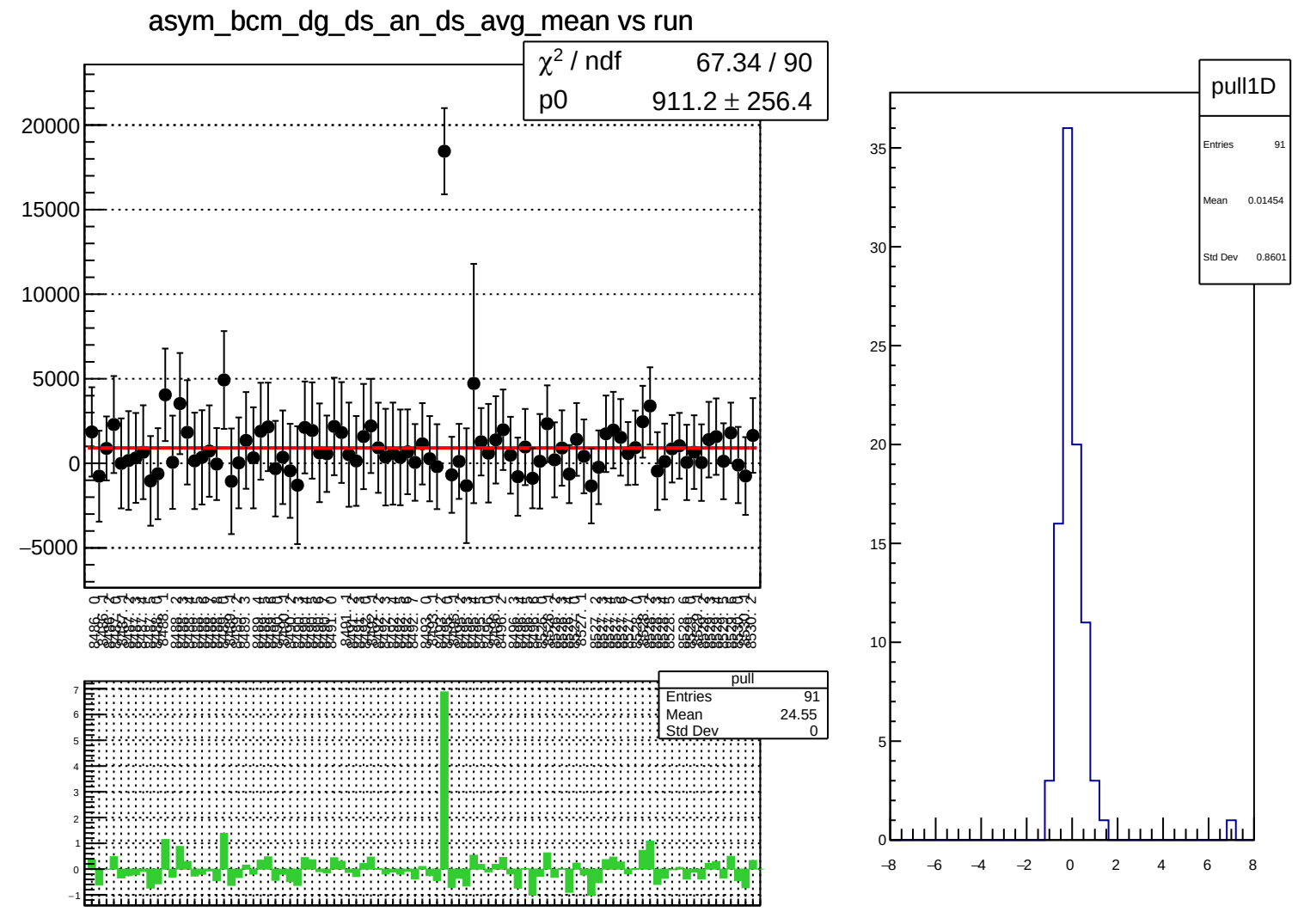

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 64.8 / 90
p0 878.4 ± 256.9
20000
15000
10000
5000
0
−5000
pull
Entries 91
Mean 26.73
Std Dev 0
7
6
5
4
3
2
1
0
−1

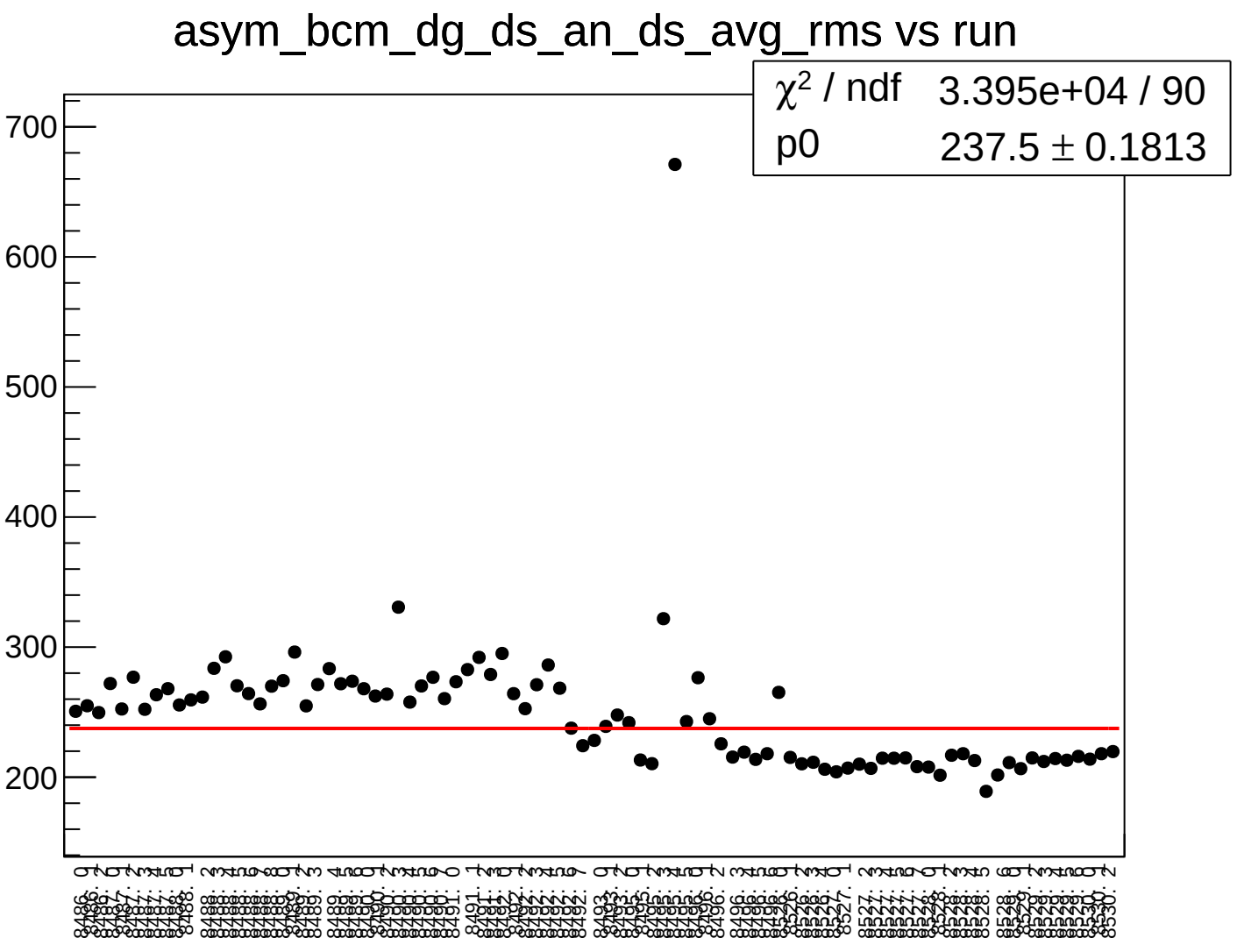

pull1D
Entries 91
Mean 0.01456
Std Dev 0.8437
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

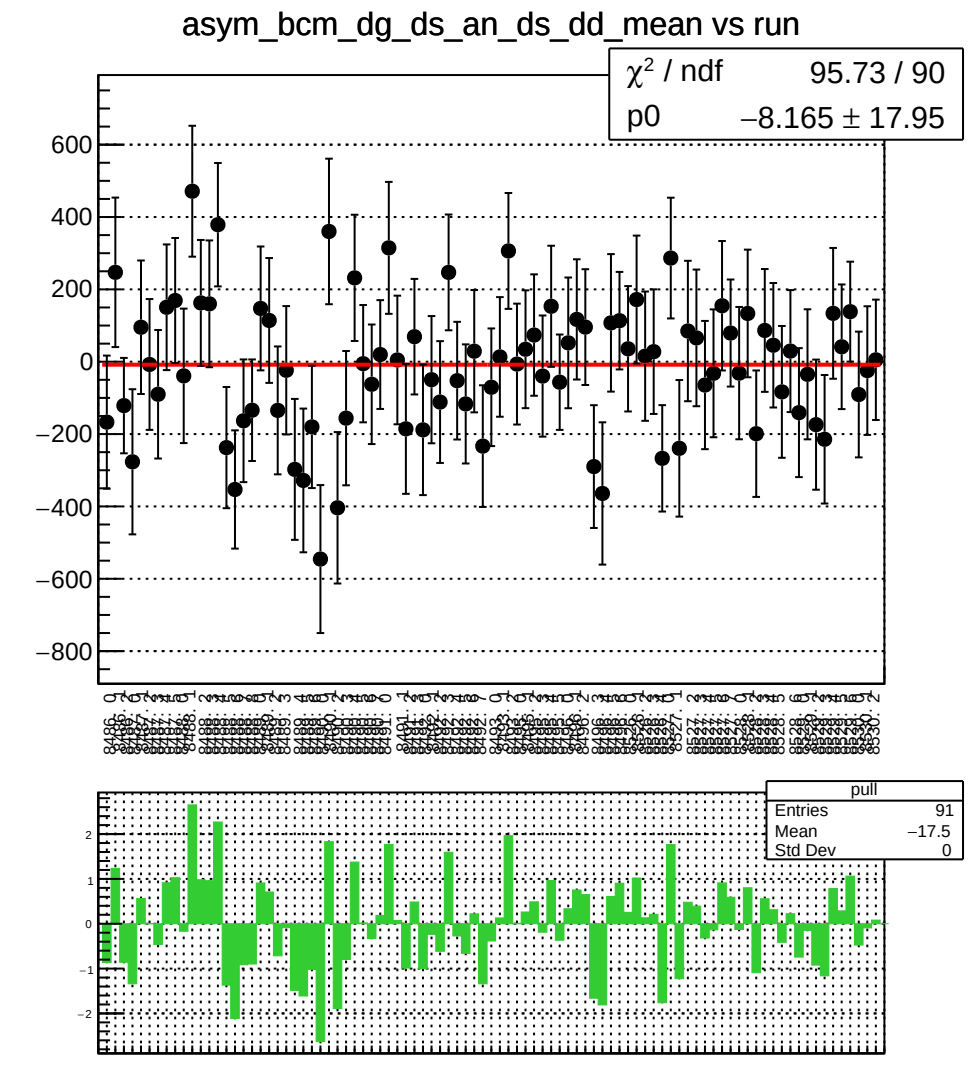

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 3.415e+04 / 90
p0 237.9 ± 0.1816
700
600
500
400
300
200

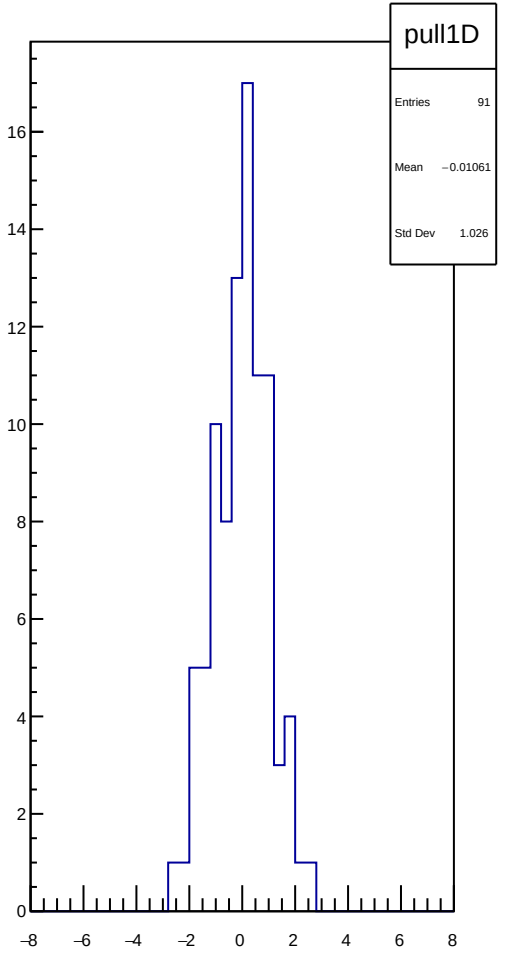

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 88.09 / 90
p0 −40.4 ± 23.6
pull
Entries 91
Mean −77.07
Std Dev 0
pull1D
Entries 91
Mean −0.007216
Std Dev 0.9839

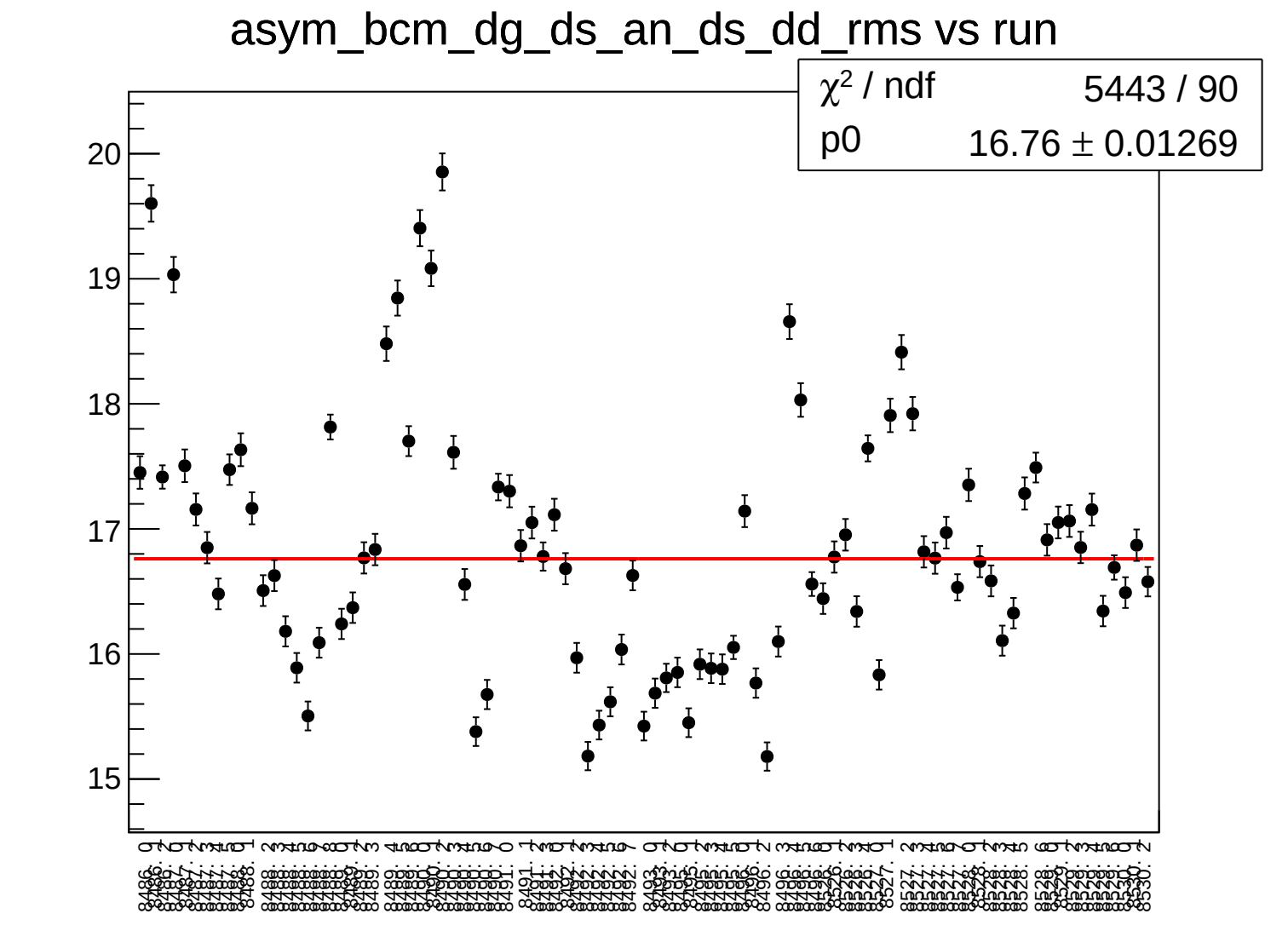

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 1407 / 90
p0 22.06 ± 0.01669
25
24.5
24
23.5
23
22.5
22
21.5
21

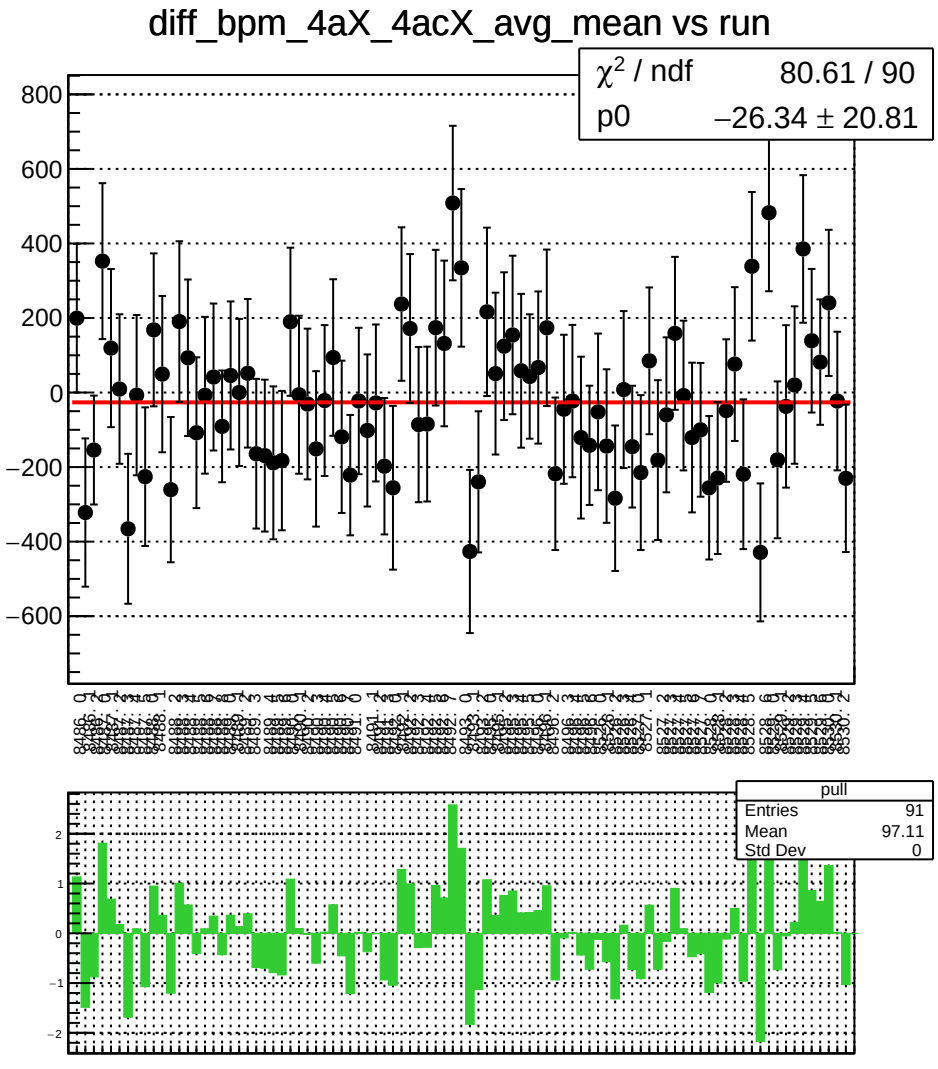

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 67.34 / 90
p0 911.2 ± 256.4
20000
15000
10000
5000
0
−5000
pull
Entries 91
Mean 24.55
Std Dev 0
pull1D
Entries 91
Mean 0.01454
Std Dev 0.8601
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

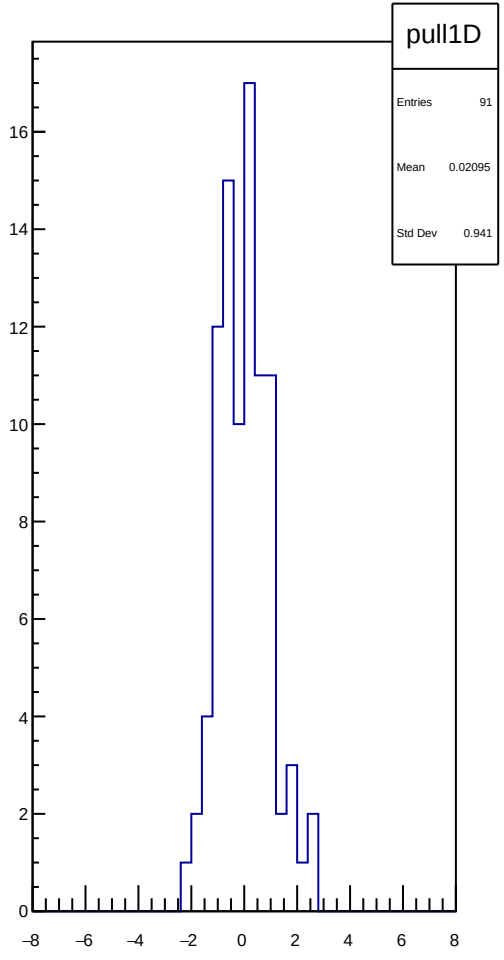

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 3.395e+04 / 90
p0 237.5 ± 0.1813
700
600
500
400
300
200

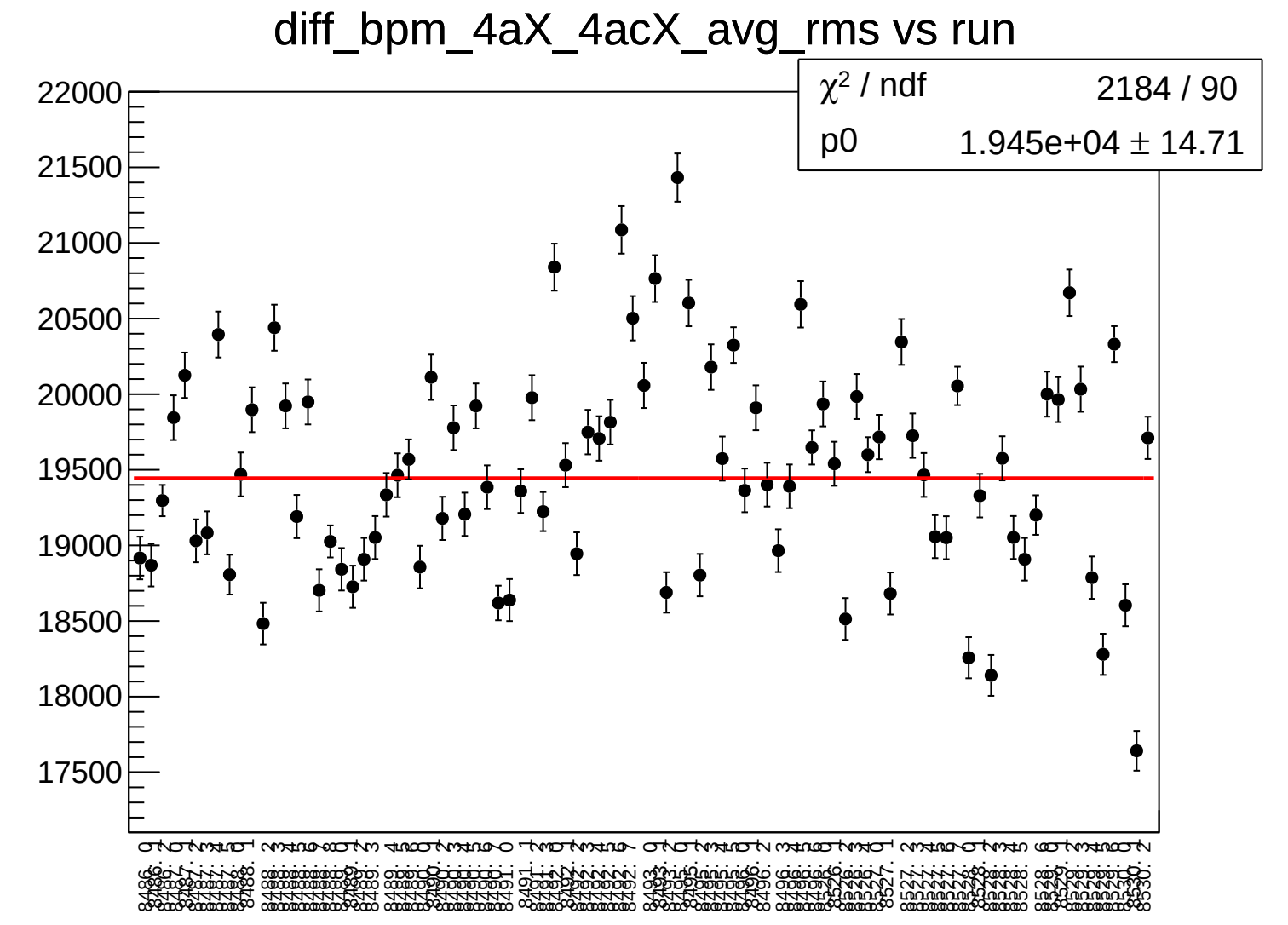

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 95.73 / 90
p0 −8.165 ± 17.95
600
400
200
0
−200
−400
−600
−800
pull
Entries 91
Mean −17.5
Std Dev 0
2
1
0
−1
−2

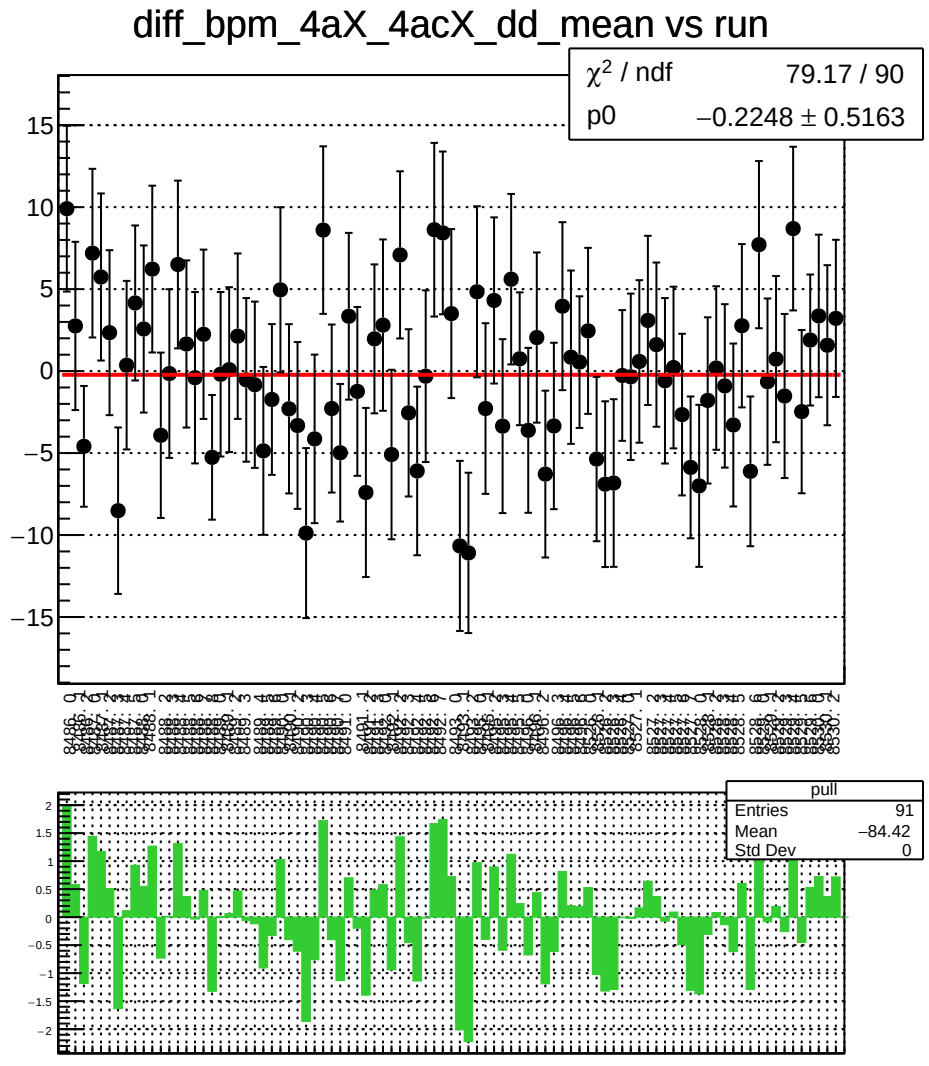

pull1D
Entries 91
Mean −0.01061
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

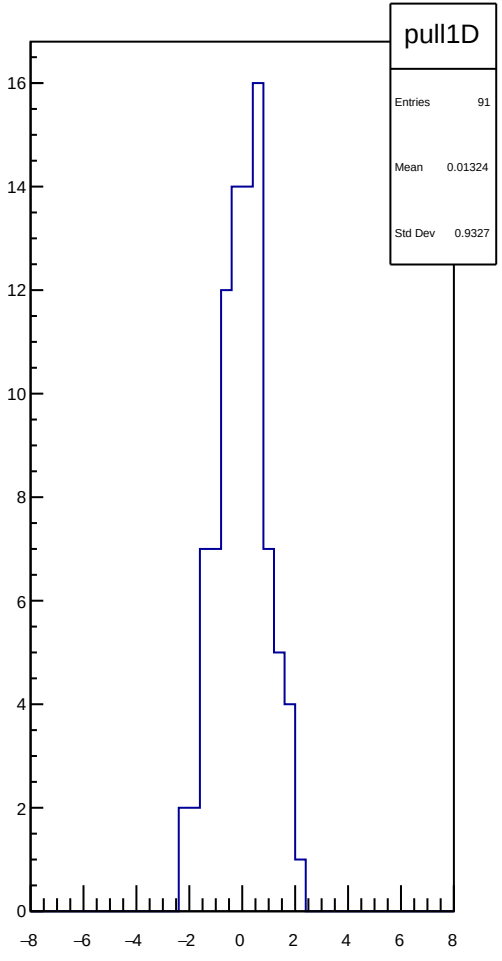

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 5443 / 90
p0 16.76 ± 0.01269
20
19
18
17
16
15

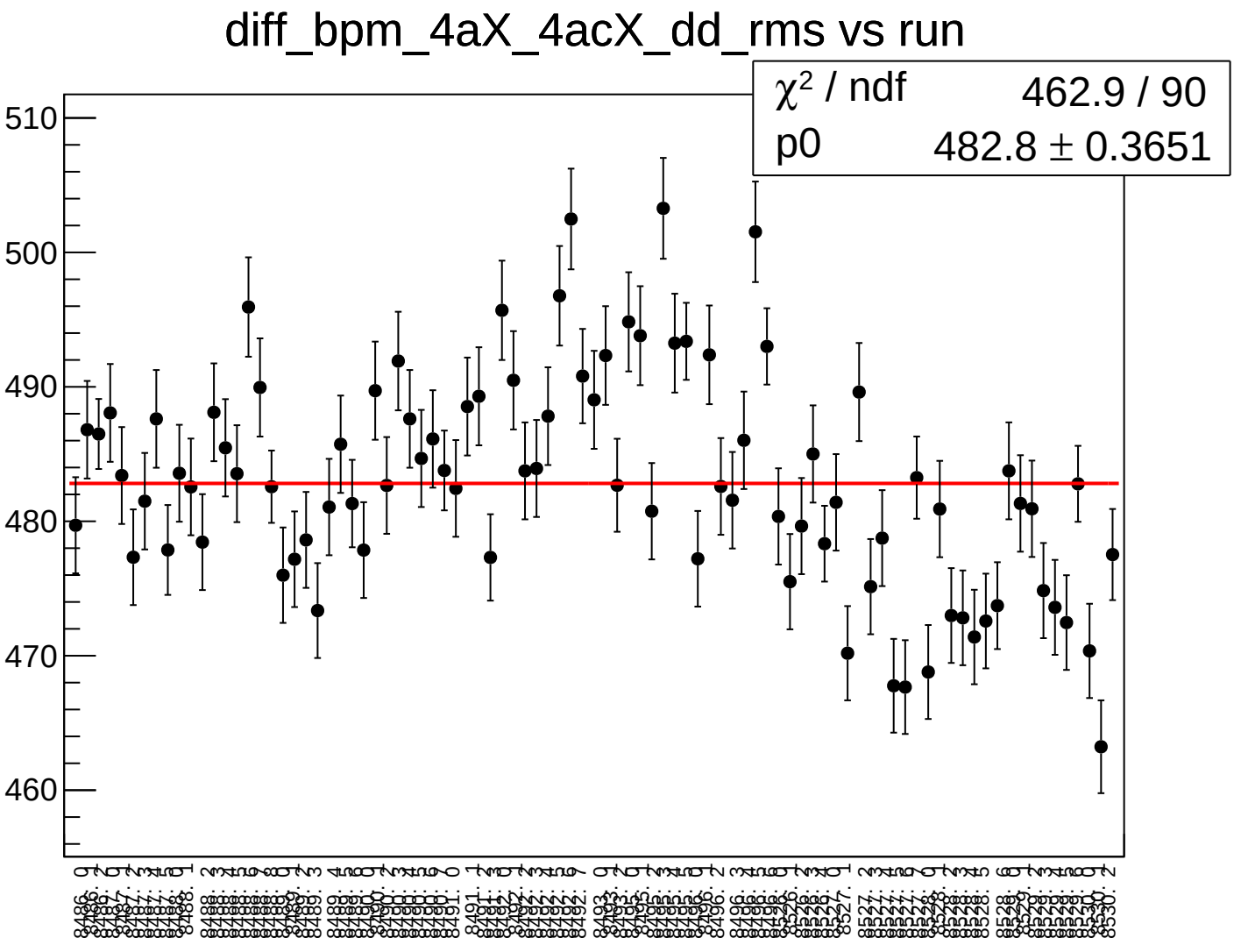

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 80.61 / 90
p0 −26.34 ± 20.81
800
600
400
200
0
−200
−400
−600
pull
Entries 91
Mean 97.11
Std Dev 0
2
1
0
−1
−2

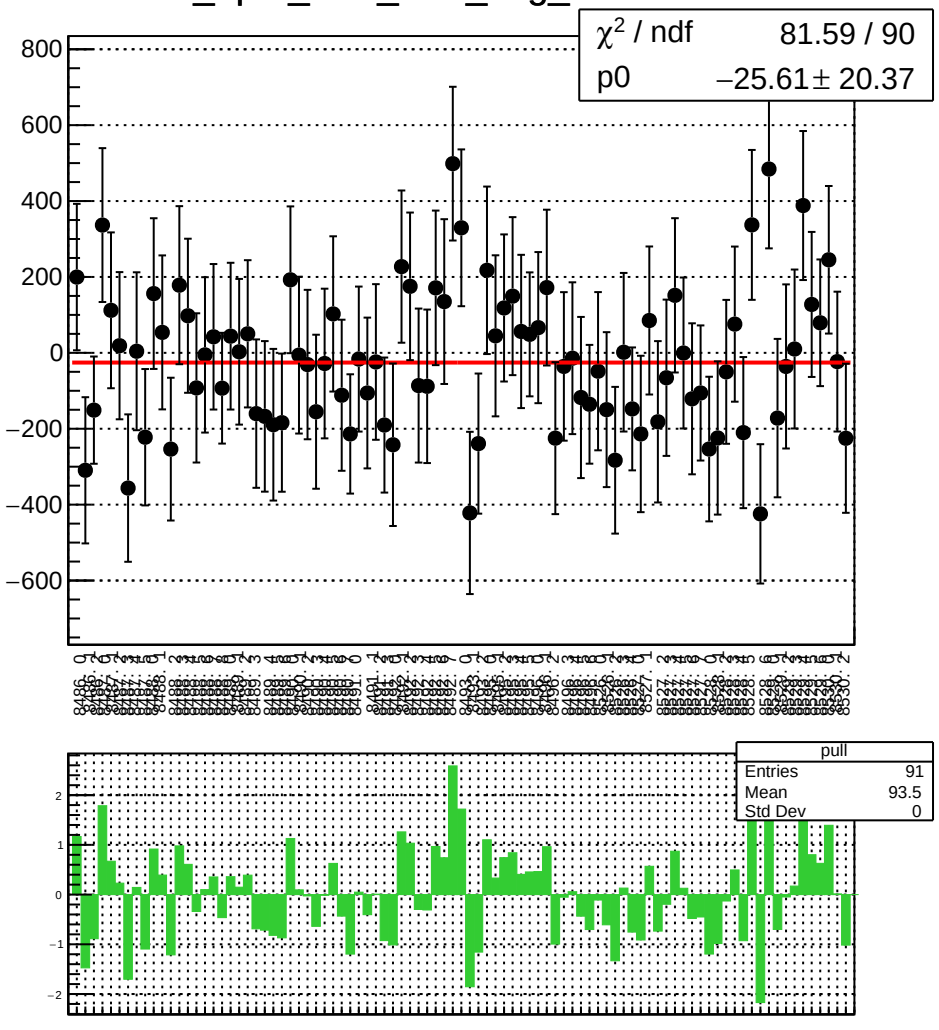

pull1D
Entries 91
Mean 0.02095
Std Dev 0.941
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

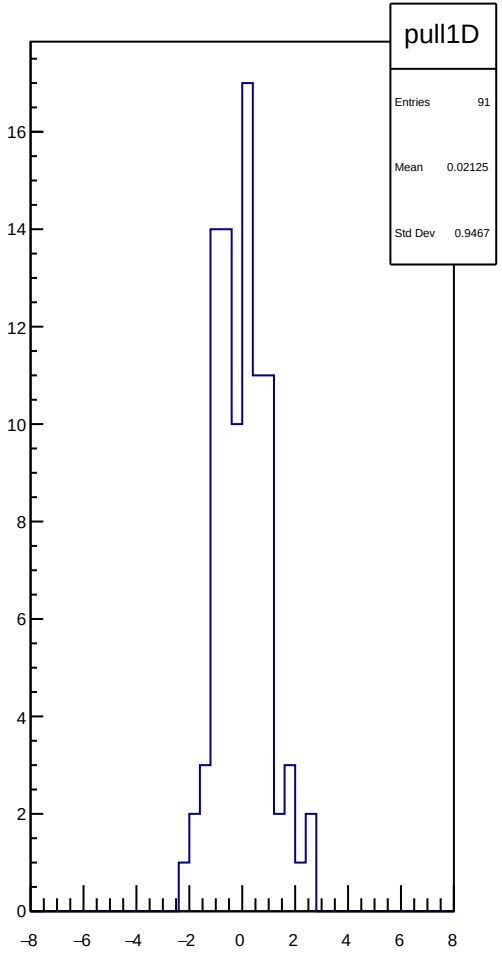

diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 2184 / 90
p0 1.945e+04 ± 14.71
22000
21500
21000
20500
20000
19500
19000
18500
18000
17500

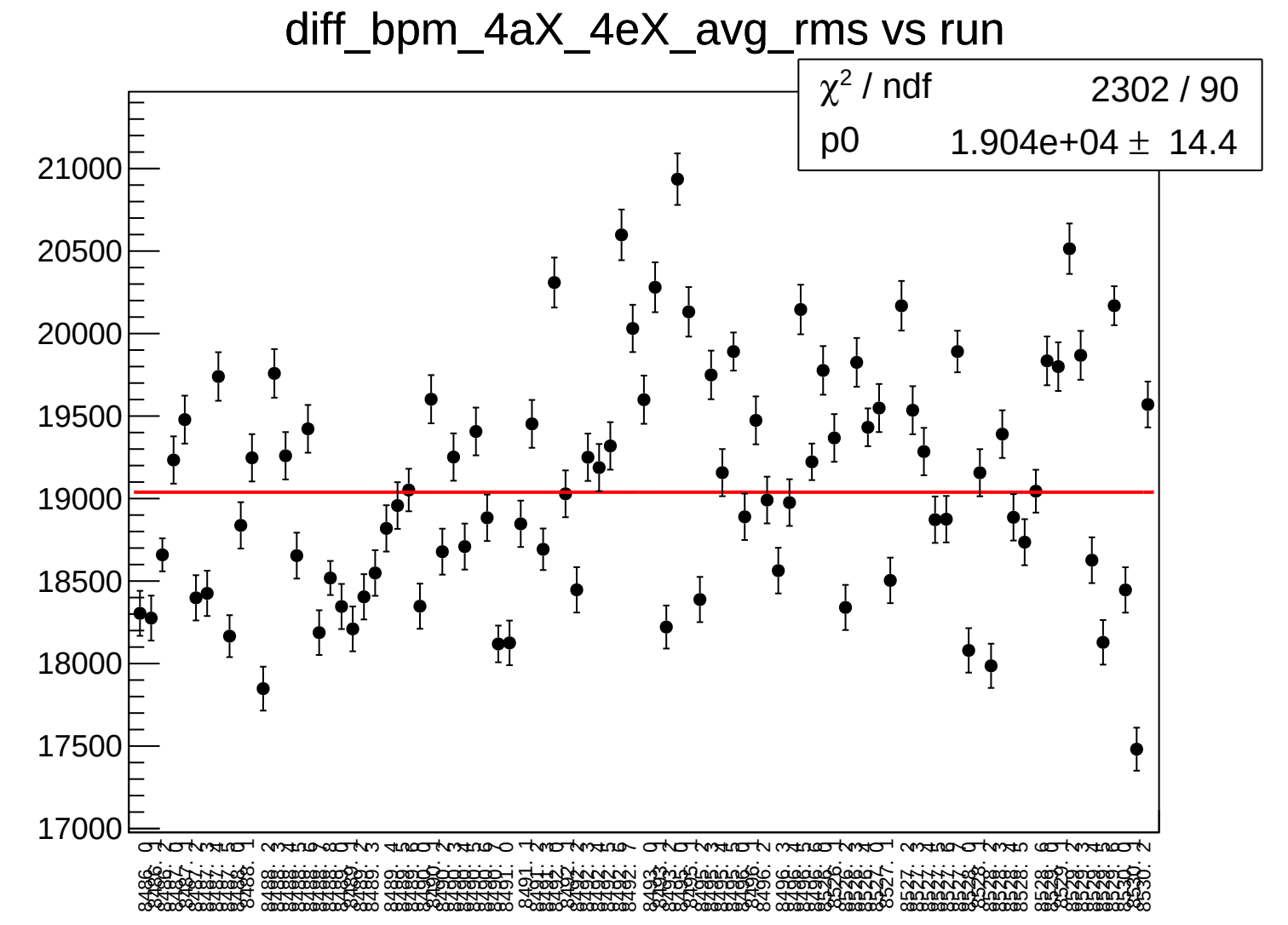

diff_bpm_4aX_4acX_dd_mean vs run
χ² / ndf 79.17 / 90
p0 −0.2248 ± 0.5163
pull
Entries 91
Mean −84.42
Std Dev 0

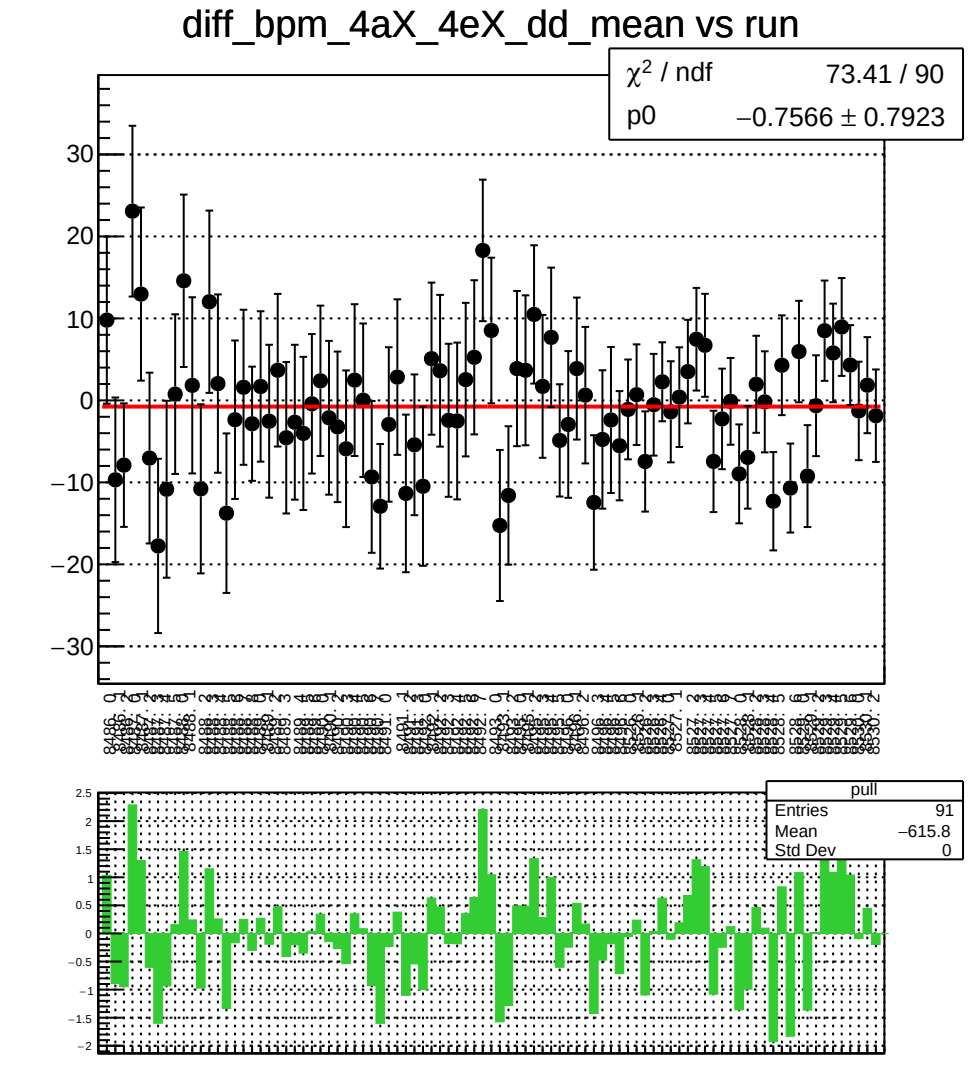

pull1D
Entries 91
Mean 0.01324
Std Dev 0.9327

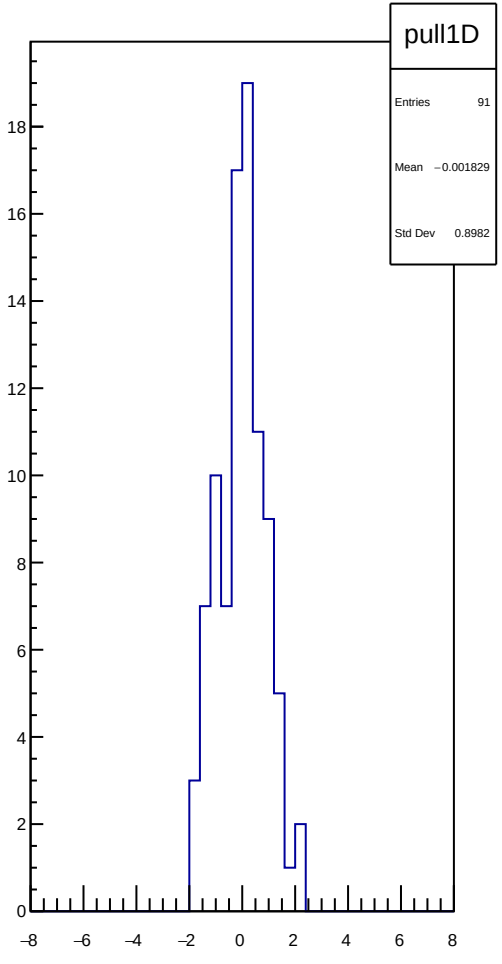

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 462.9 / 90
p0 482.8 ± 0.3651
510
500
490
480
470
460

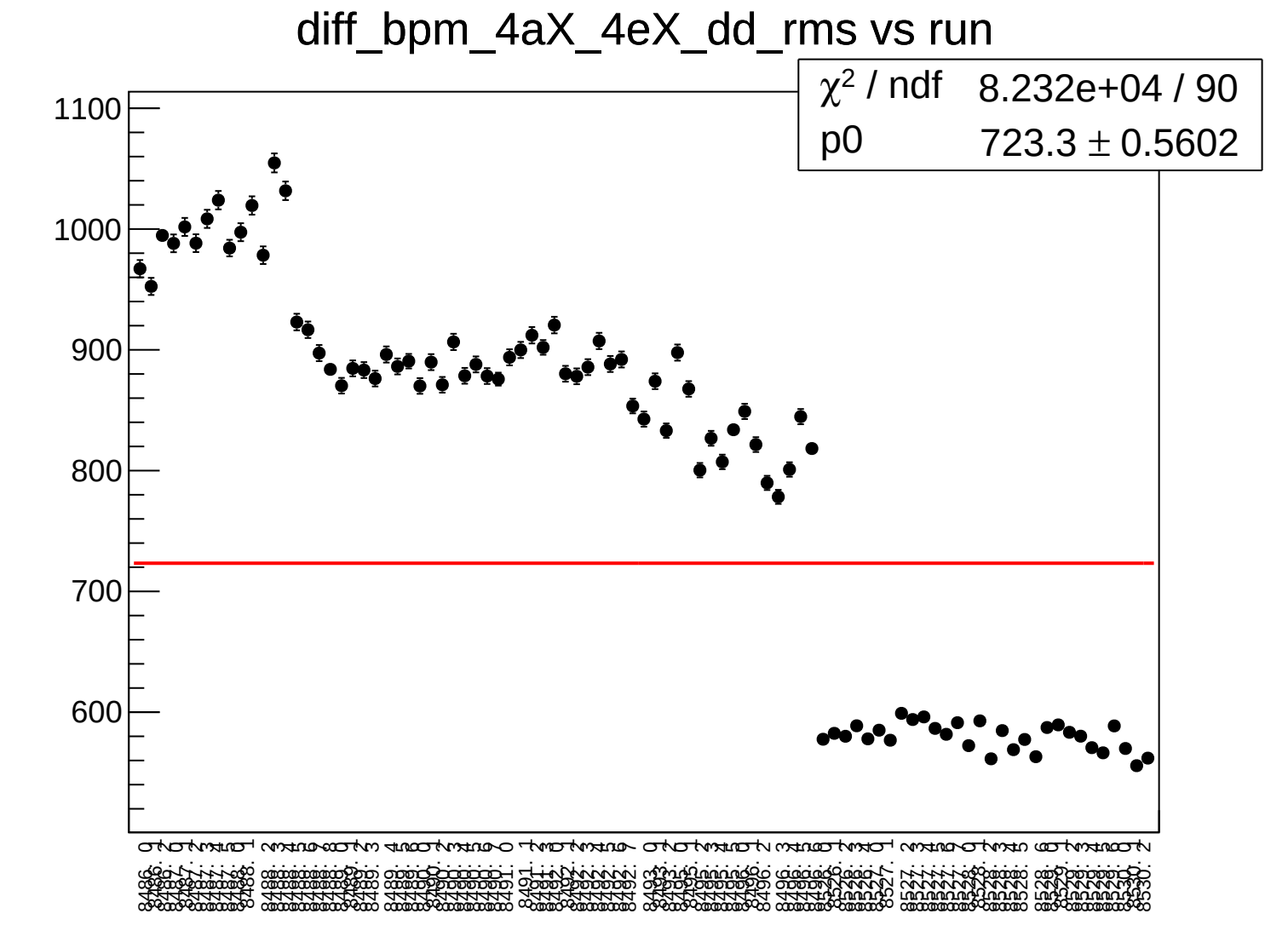

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 81.59 / 90
p0 −25.61± 20.37
pull
Entries 91
Mean 93.5
Std Dev 0

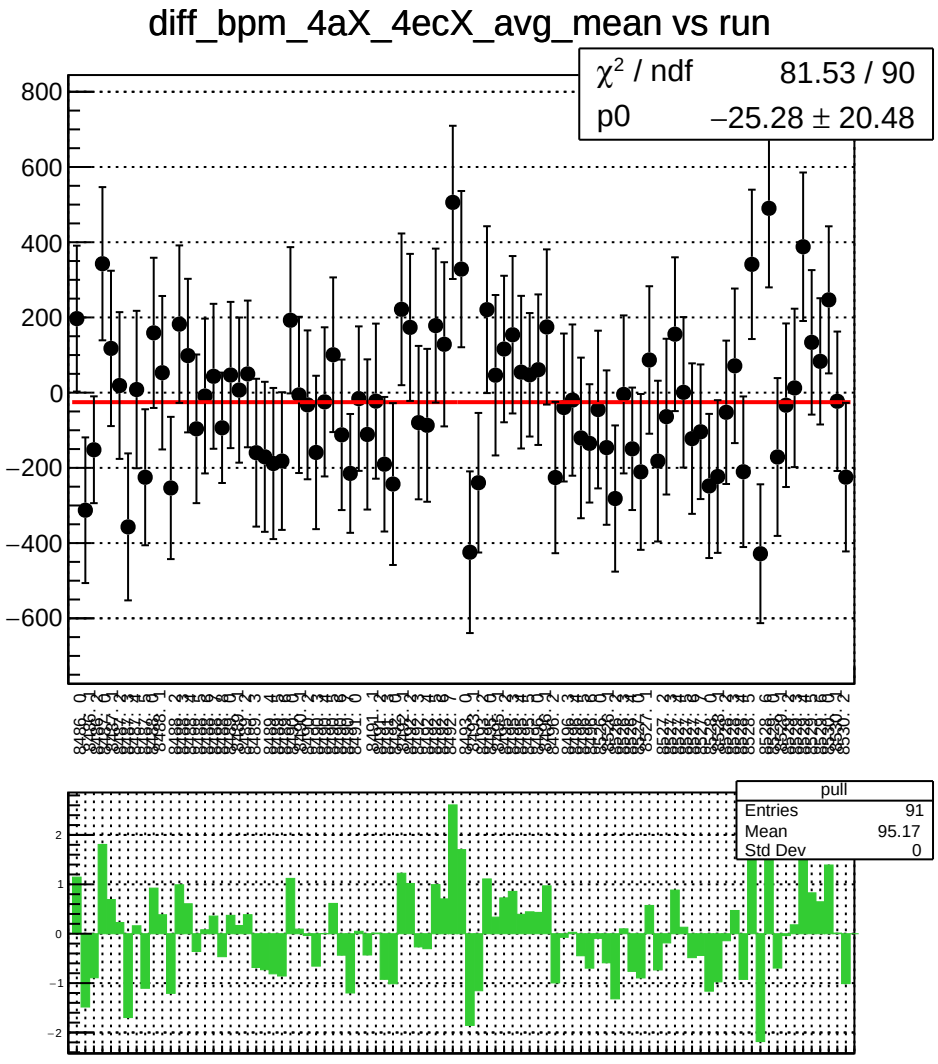

pull1D
Entries 91
Mean 0.02125
Std Dev 0.9467

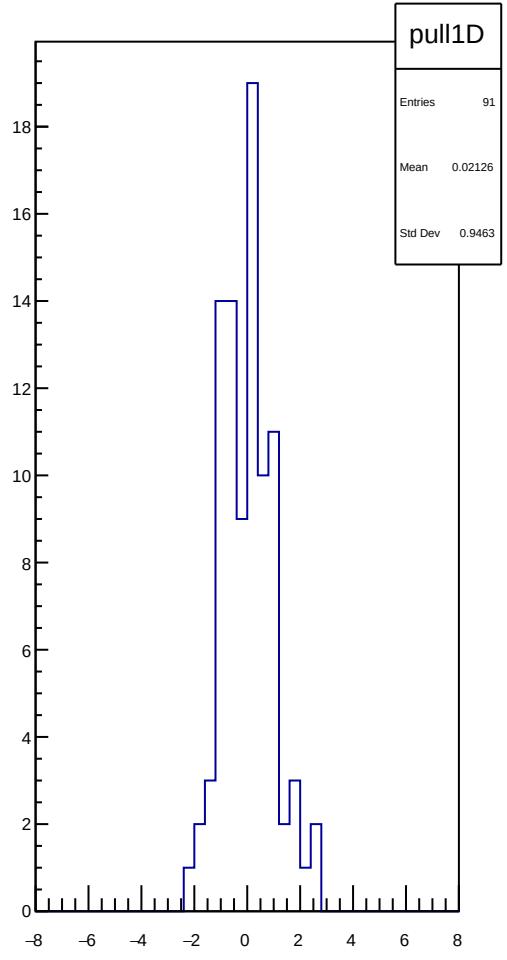

diff_bpm_4aX_4eX_avg_rms vs run
χ² / ndf 2302 / 90
p0 1.904e+04 ± 14.4
21000
20500
20000
19500
19000
18500
18000
17500
17000

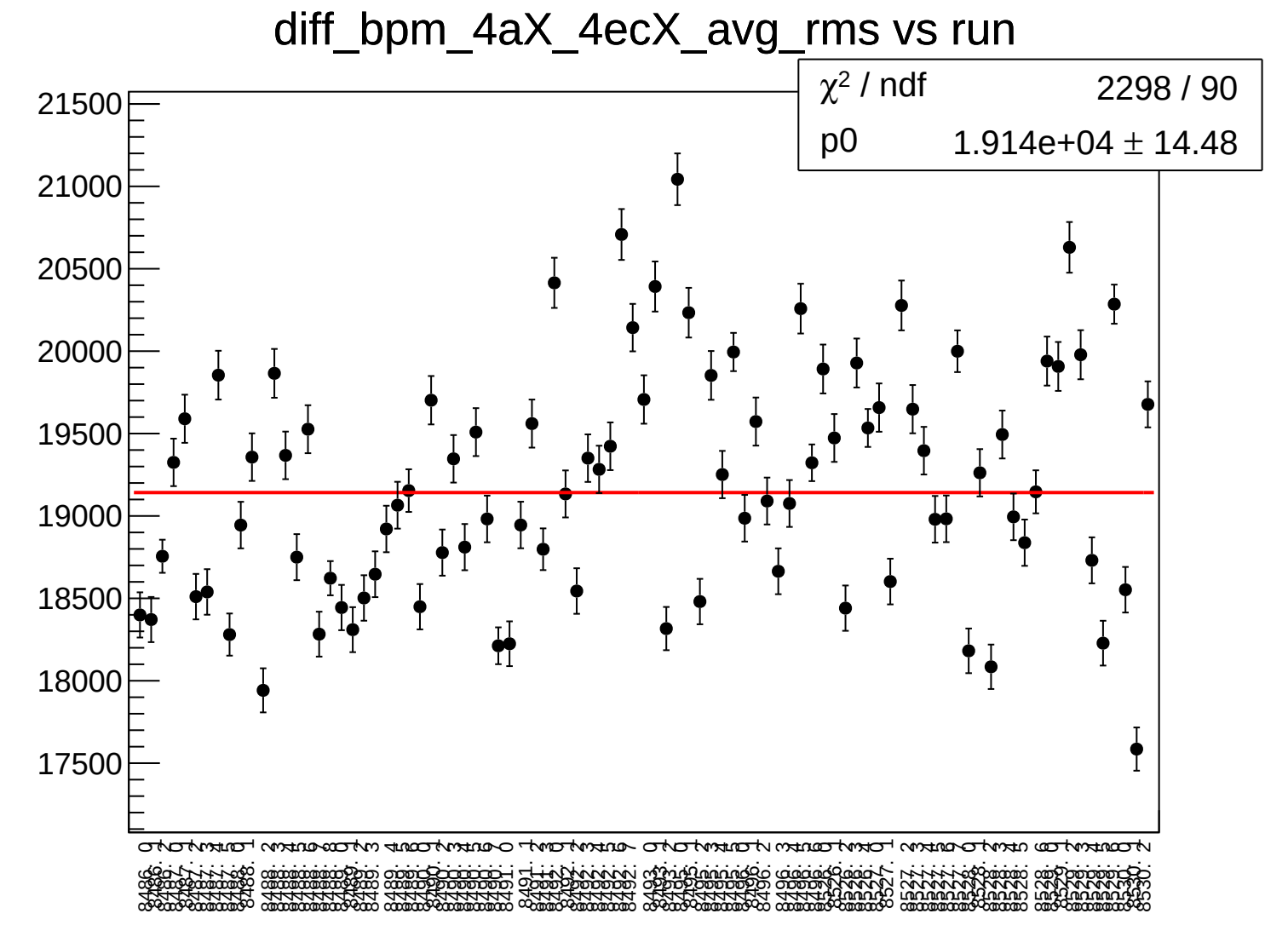

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 73.41 / 90
p0 −0.7566 ± 0.7923
pull
Entries 91
Mean −615.8
Std Dev 0

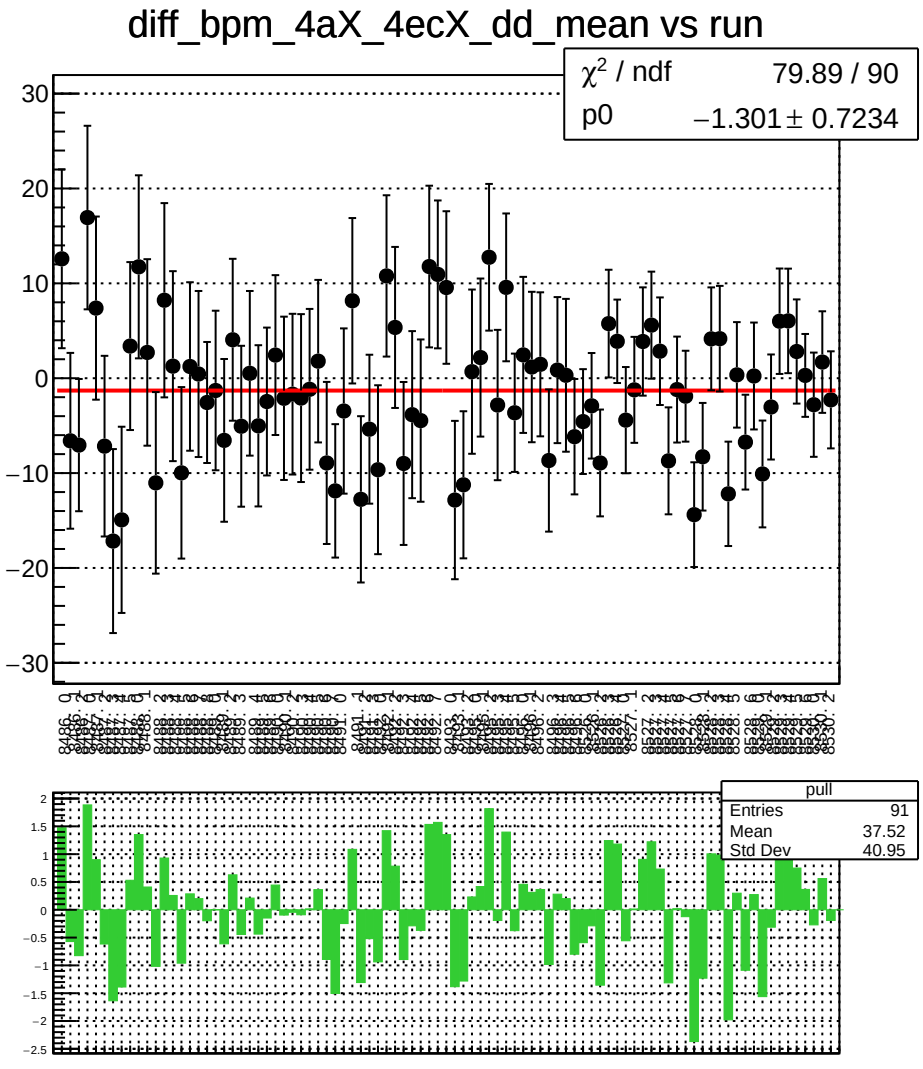

pull1D
Entries 91
Mean −0.001829
Std Dev 0.8982

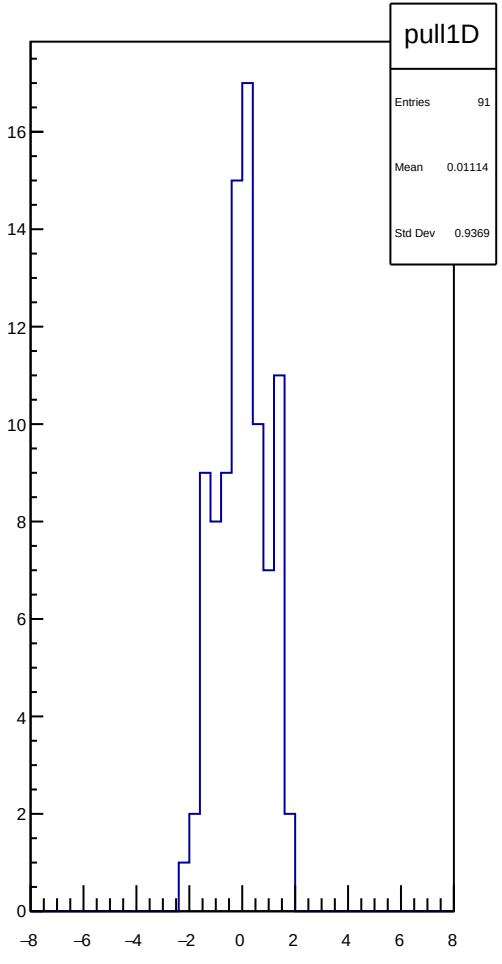

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 8.232e+04 / 90
p0 723.3 ± 0.5602
1100
1000
900
800
700
600

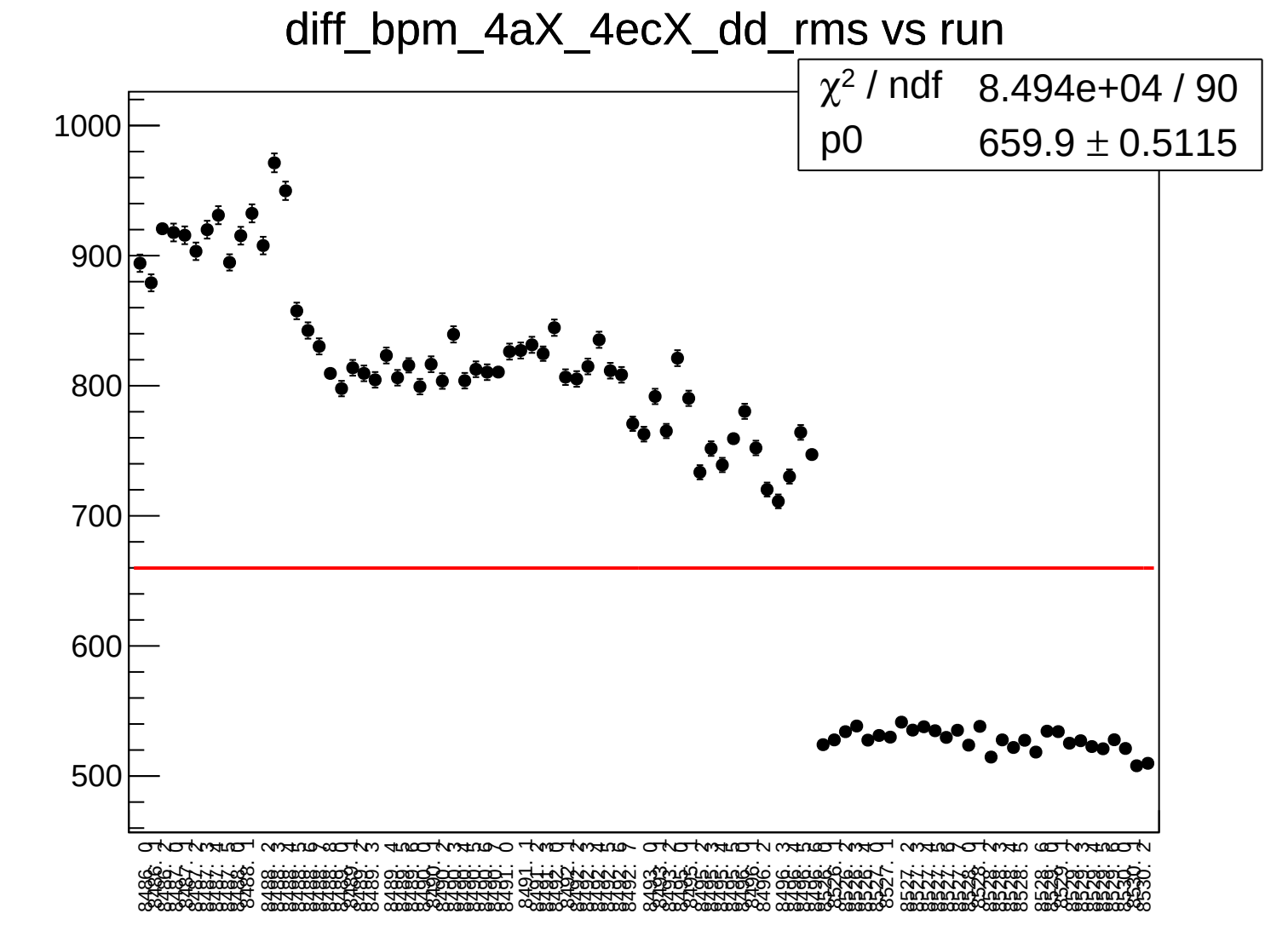

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 81.53 / 90
p0 −25.28 ± 20.48
800
600
400
200
0
−200
−400
−600
pull
Entries 91
Mean 95.17
Std Dev 0
2
1
0
−1
−2

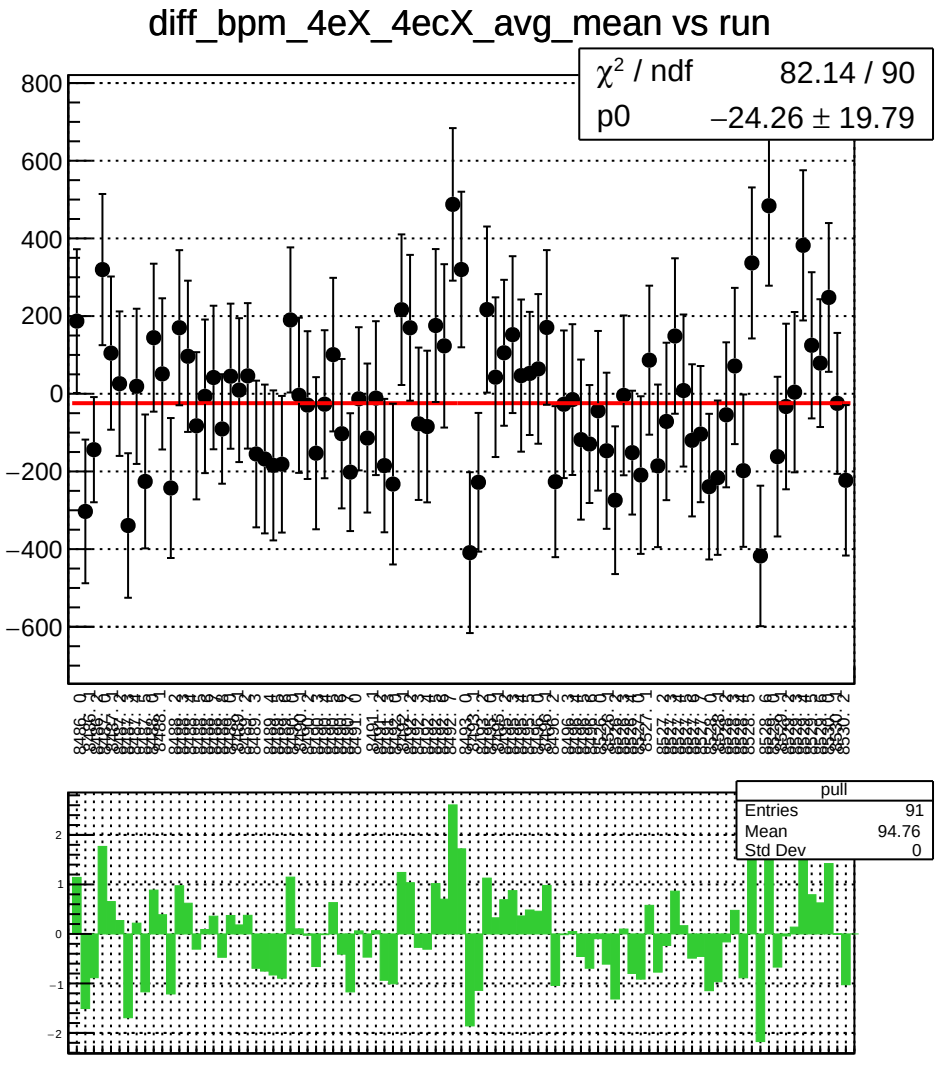

pull1D
Entries 91
Mean 0.02126
Std Dev 0.9463
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

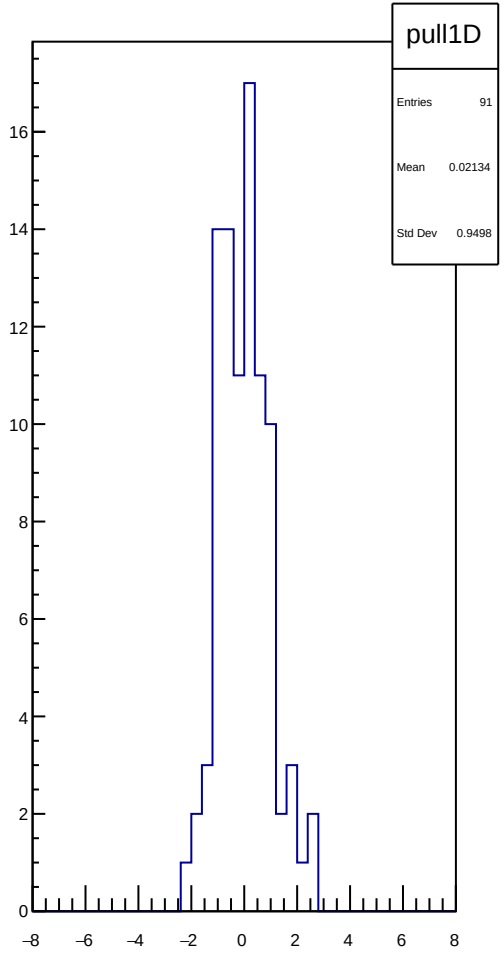

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 2298 / 90
p0 1.914e+04 ± 14.48
21500
21000
20500
20000
19500
19000
18500
18000
17500

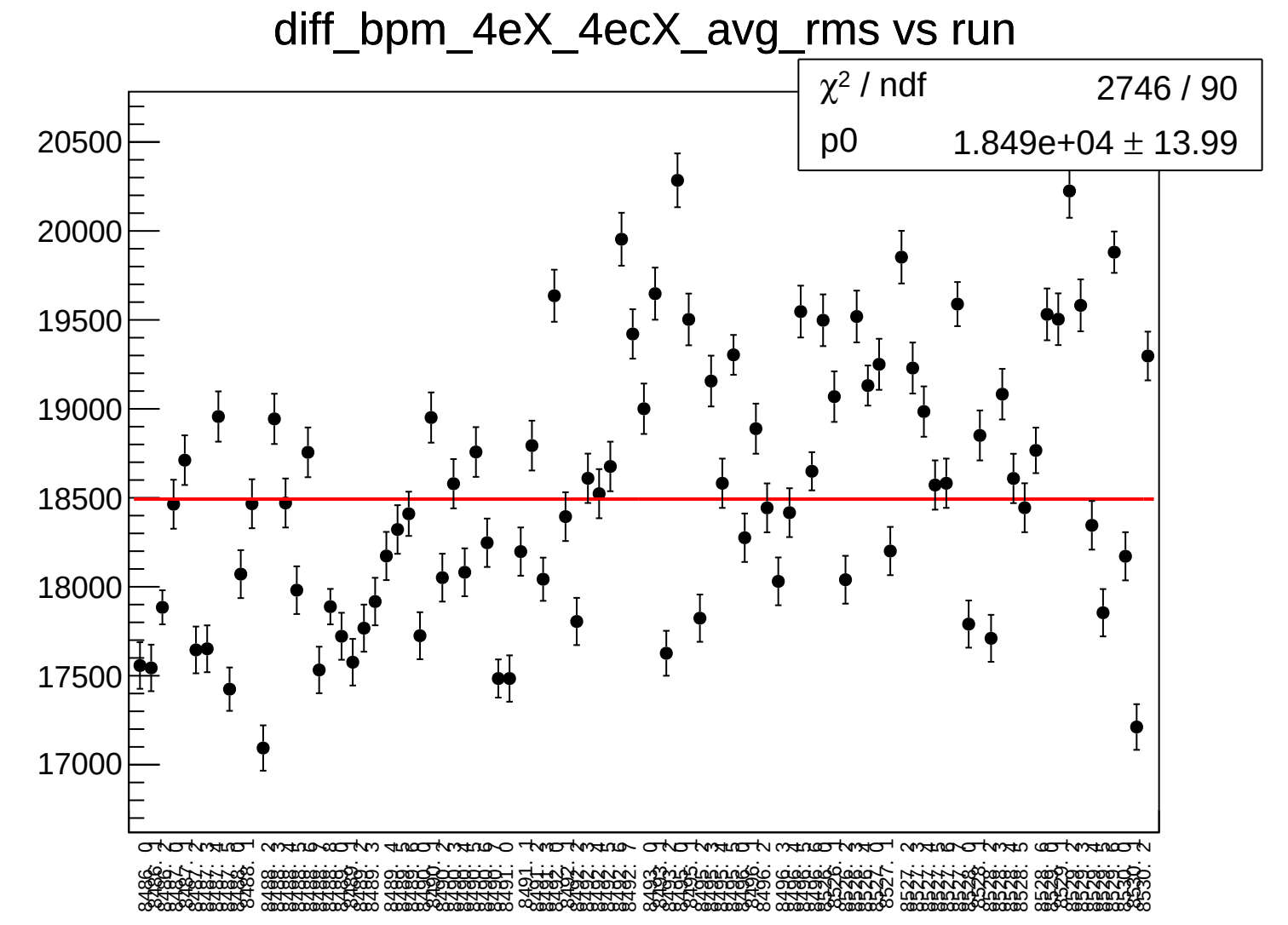

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 79.89 / 90
p0 −1.301 ± 0.7234
pull
Entries 91
Mean 37.52
Std Dev 40.95

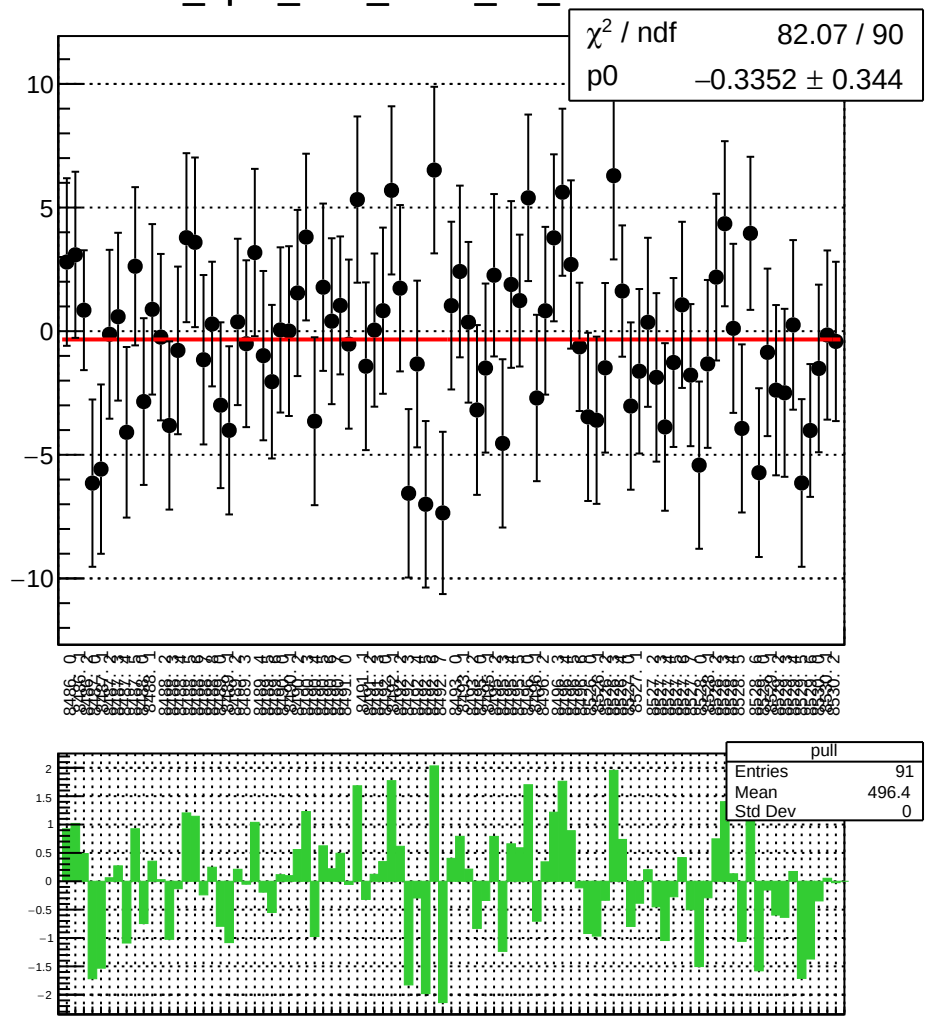

pull1D
Entries 91
Mean 0.01114
Std Dev 0.9369

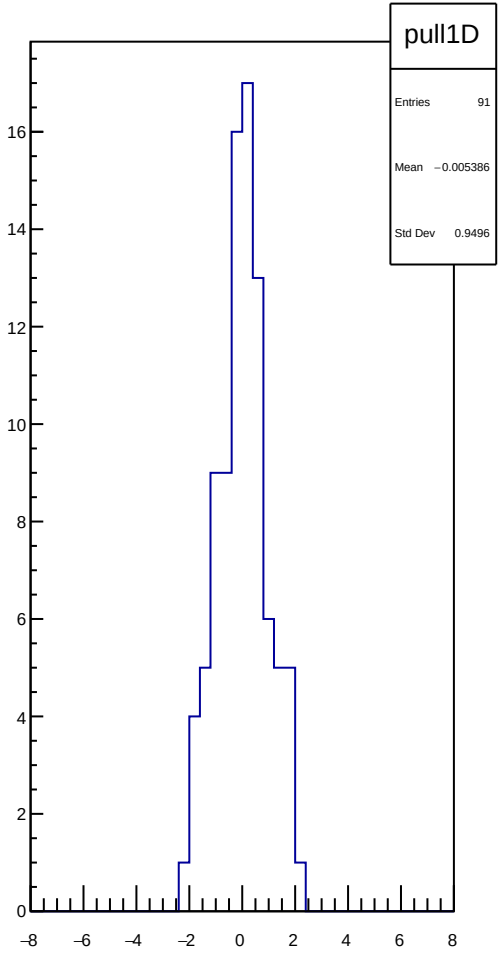

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 8.494e+04 / 90
p0 659.9 ± 0.5115
1000
900
800
700
600
500

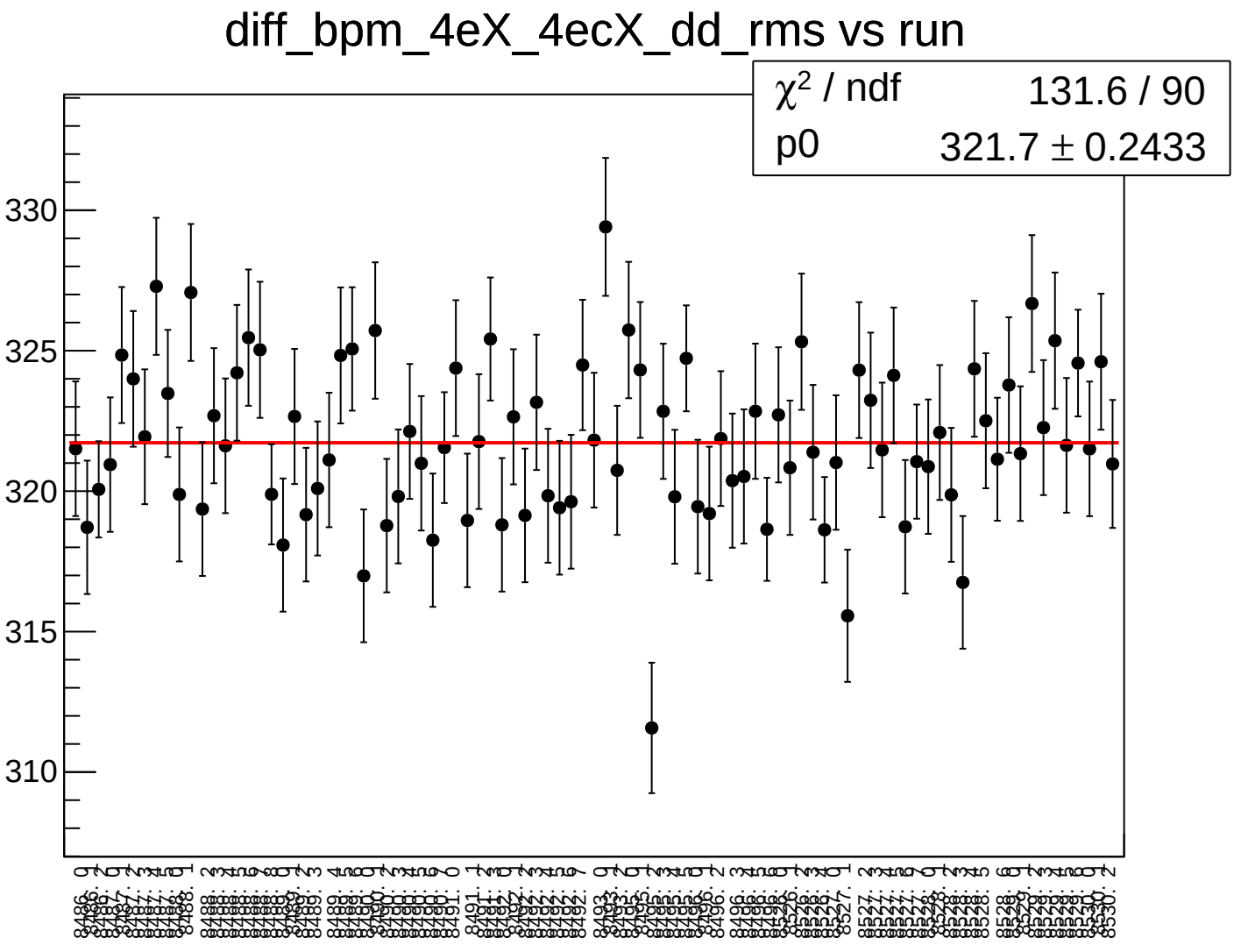

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 82.14 / 90
p0 −24.26 ± 19.79
800
600
400
200
0
−200
−400
−600
pull
Entries 91
Mean 94.76
Std Dev 0
2
1
0
−1
−2

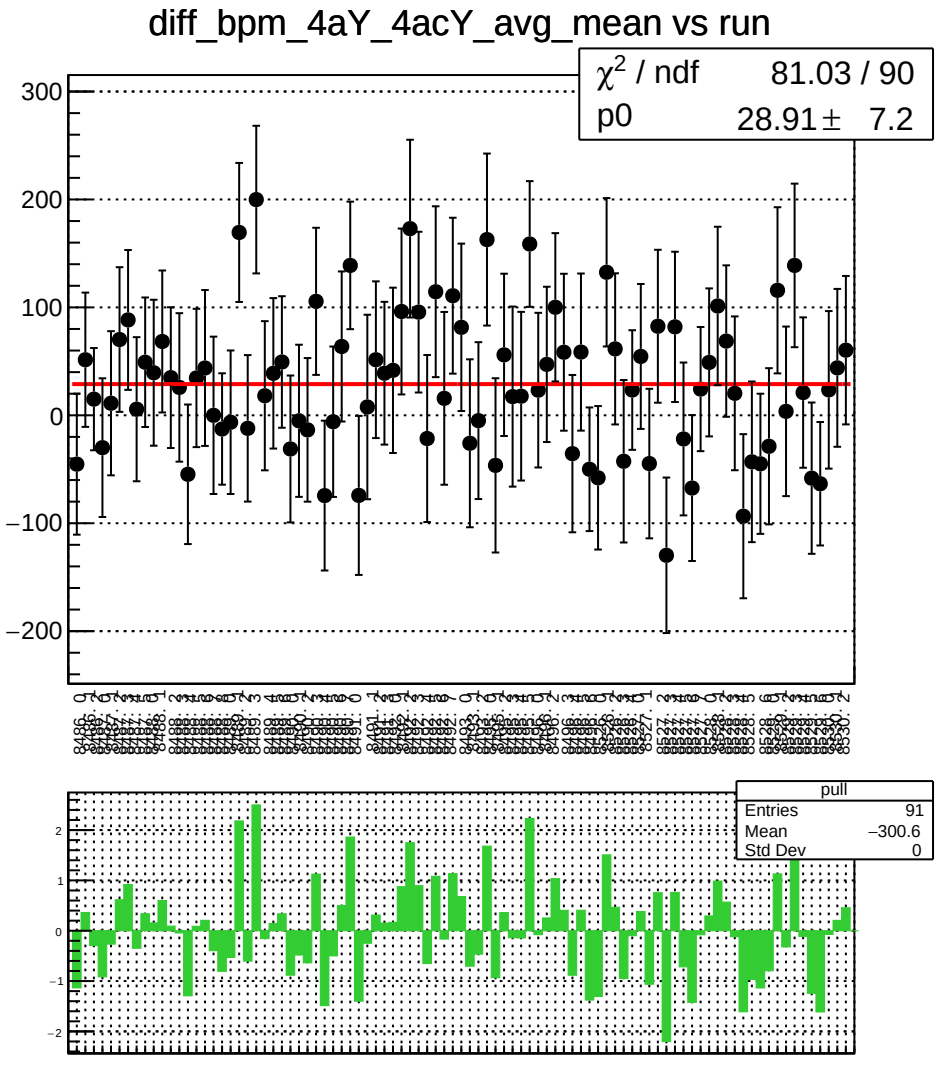

pull1D
Entries 91
Mean 0.02134
Std Dev 0.9498
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

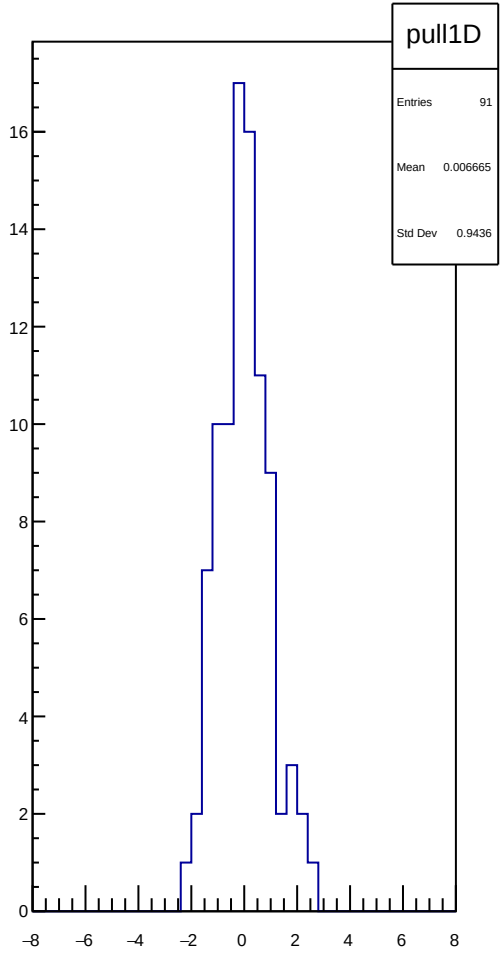

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 2746 / 90
p0 1.849e+04 ± 13.99
20500
20000
19500
19000
18500
18000
17500
17000

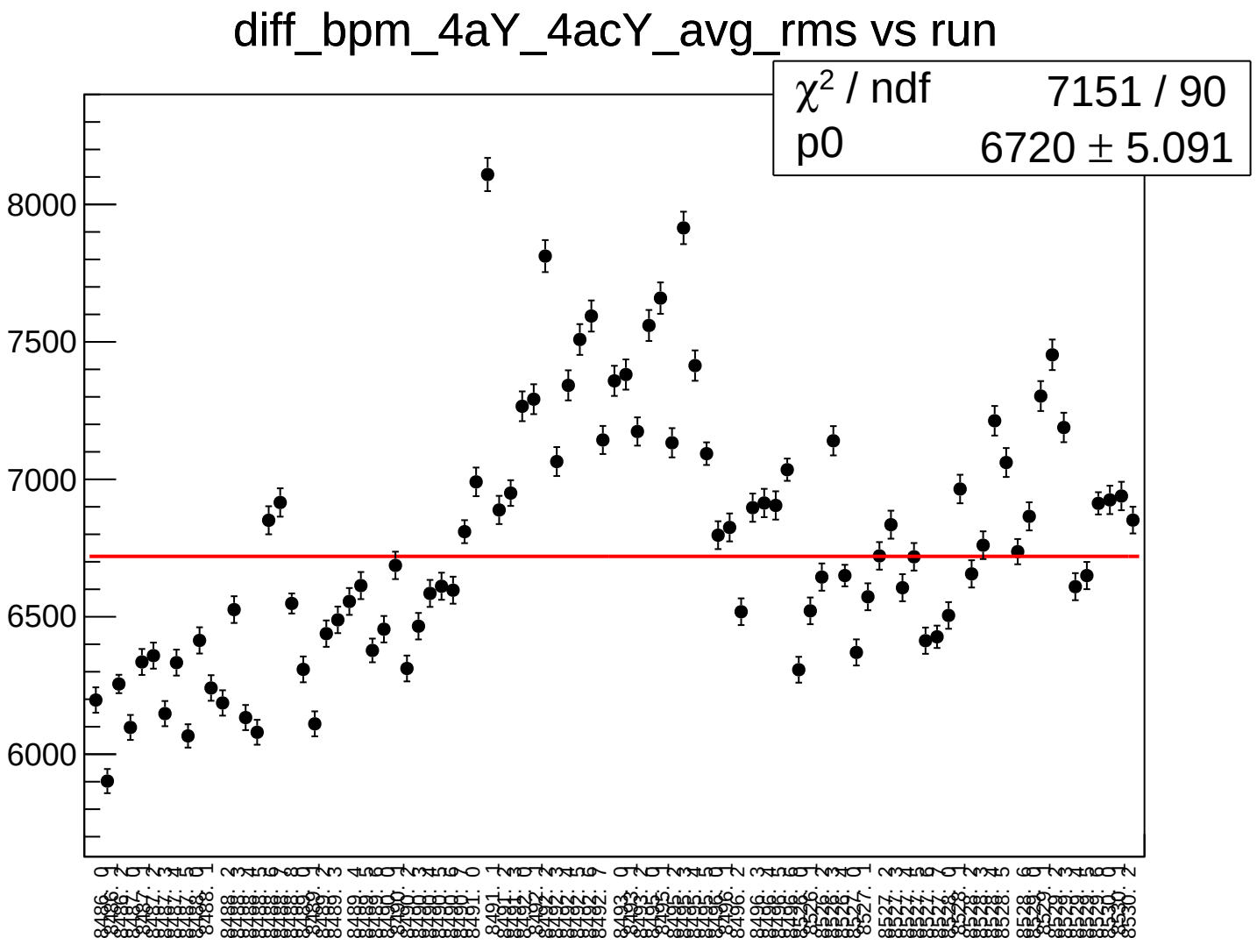

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 82.07 / 90
p0 −0.3352 ± 0.344
pull
Entries 91
Mean 496.4
Std Dev 0

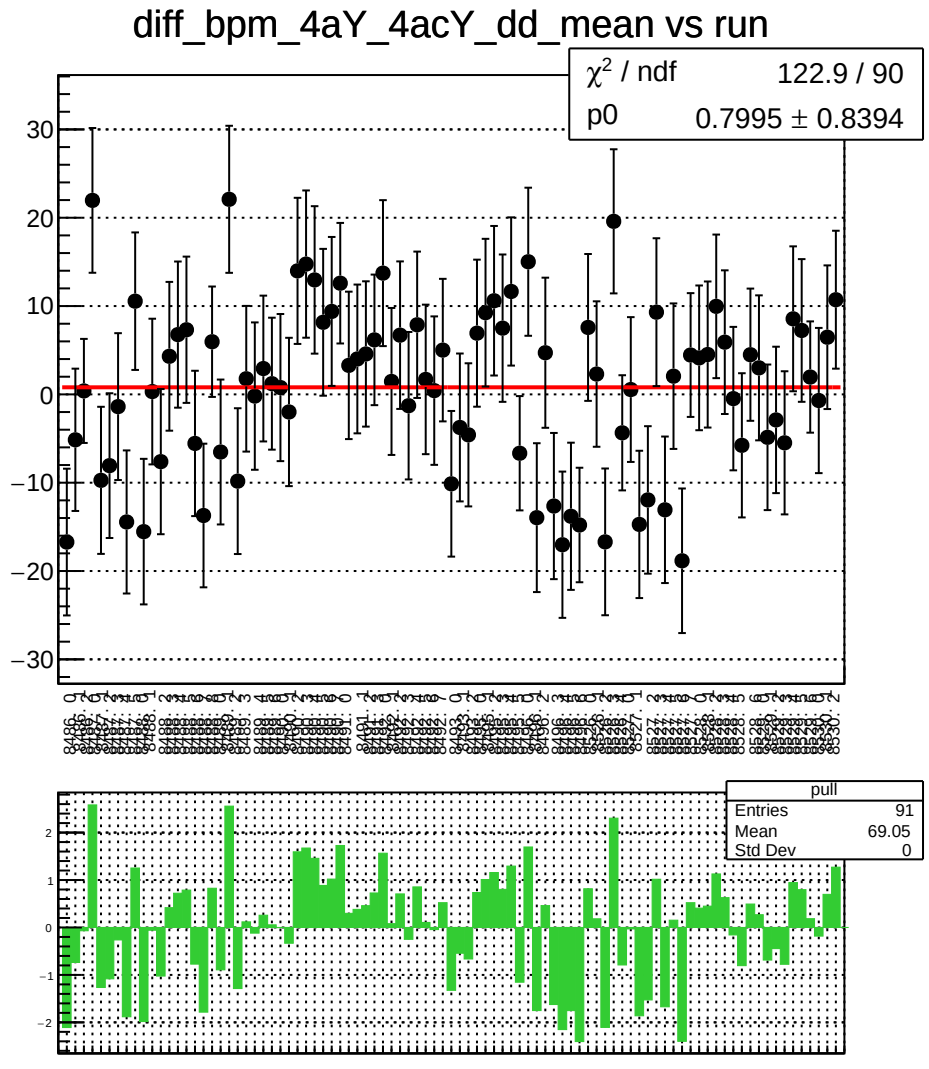

pull1D
Entries 91
Mean −0.005386
Std Dev 0.9496

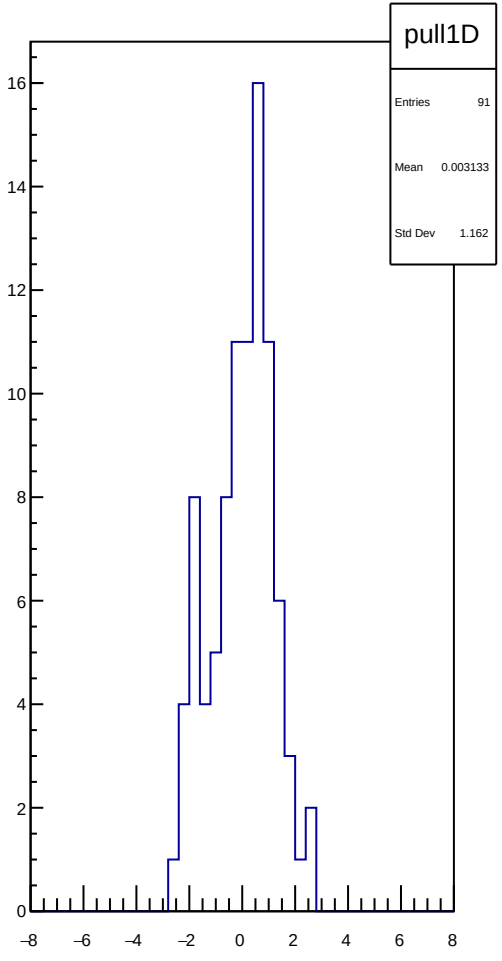

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 131.6 / 90
p0 321.7 ± 0.2433
330
325
320
315
310

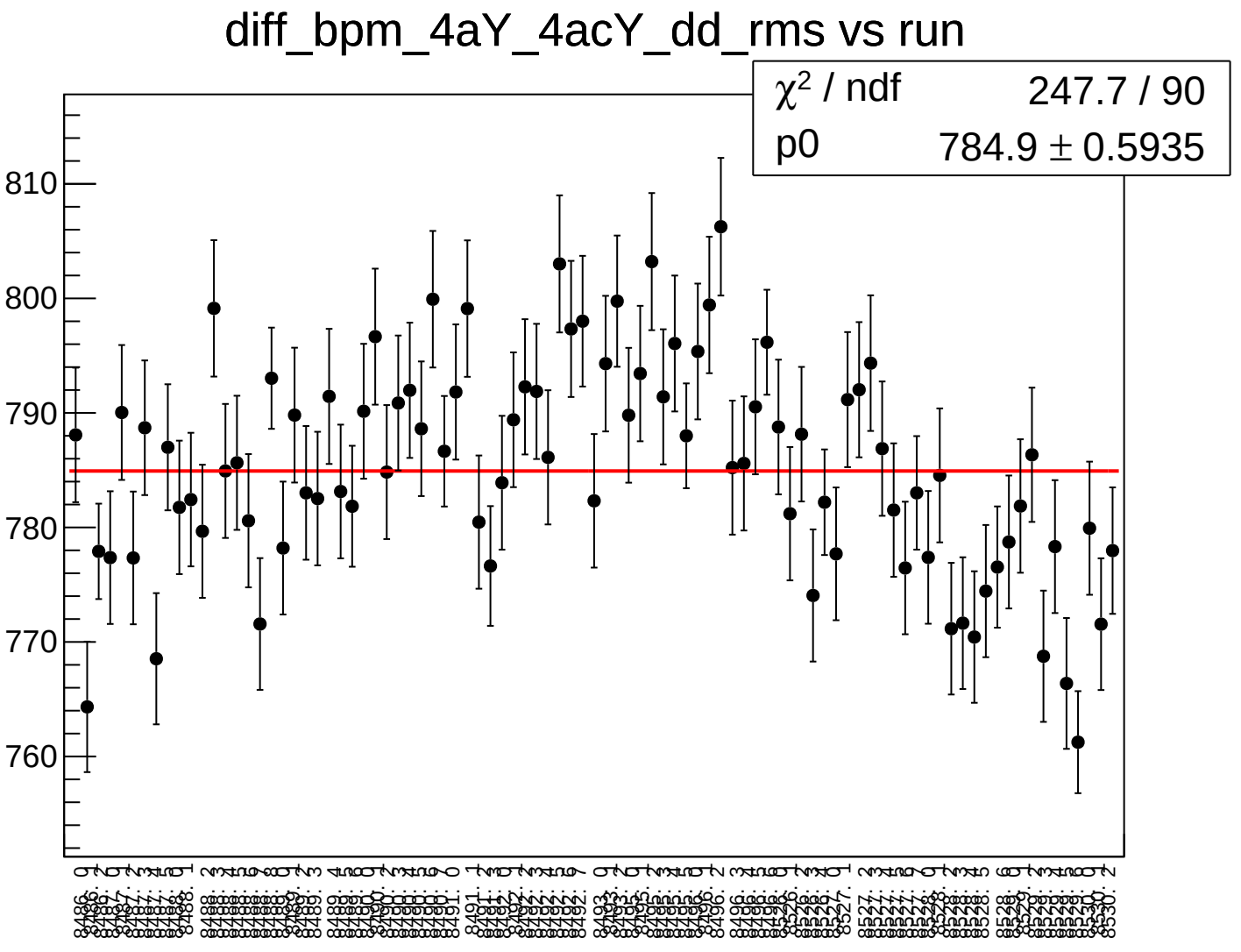

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 81.03 / 90
p0 28.91 ± 7.2
300
200
100
0
−100
−200
pull
Entries 91
Mean −300.6
Std Dev 0
2
1
0
−1
−2

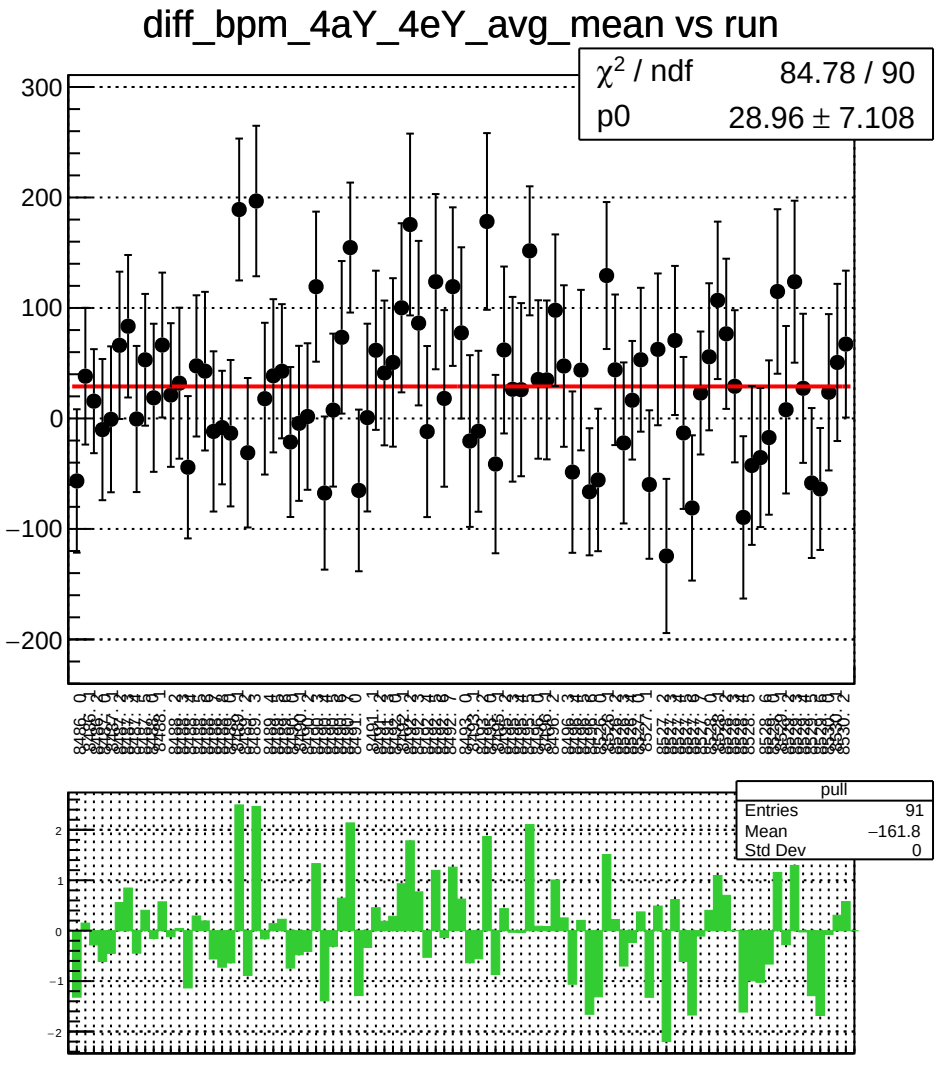

pull1D
Entries 91
Mean 0.006665
Std Dev 0.9436
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

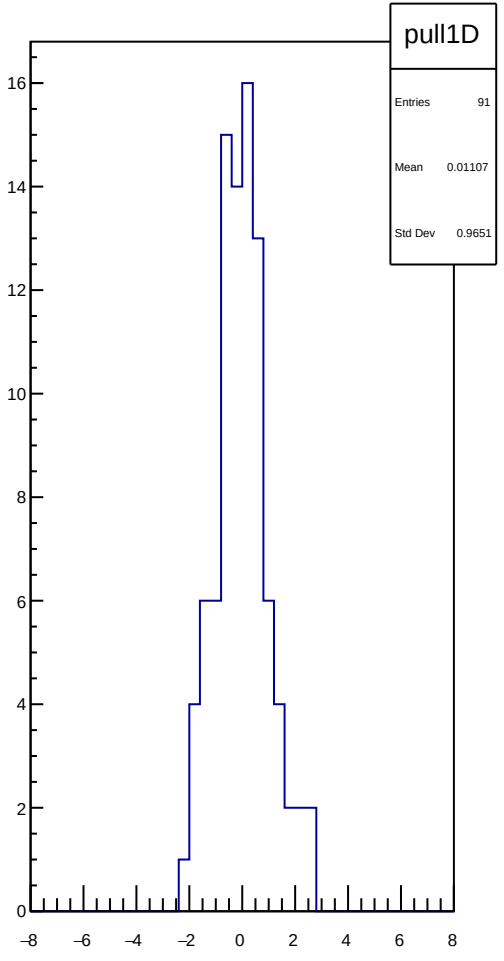

diff_bpm_4aY_4acY_avg_rms vs run
χ² / ndf 7151 / 90
p0 6720 ± 5.091
8000
7500
7000
6500
6000

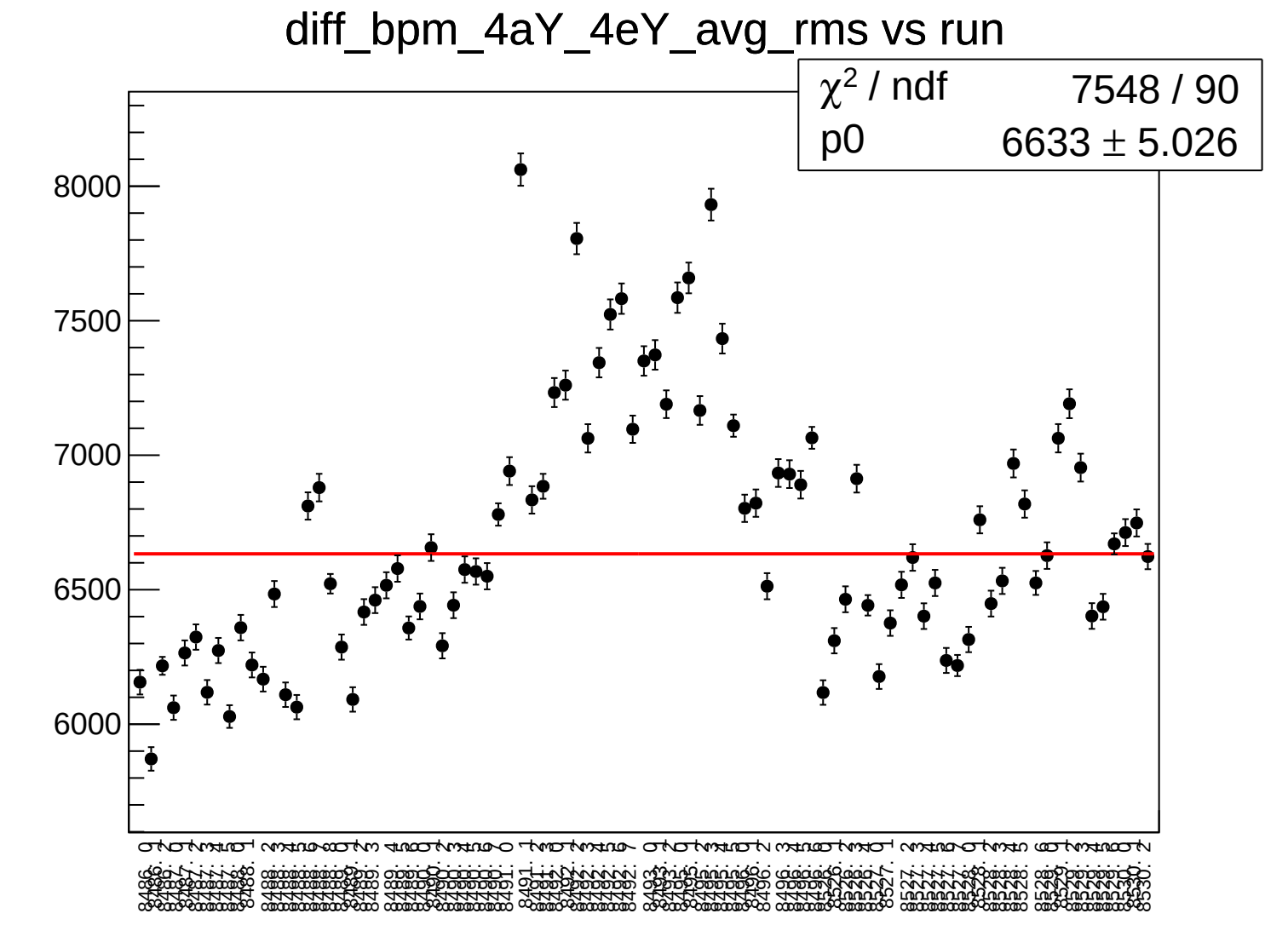

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 122.9 / 90
p0 0.7995 ± 0.8394
pull
Entries 91
Mean 69.05
Std Dev 0

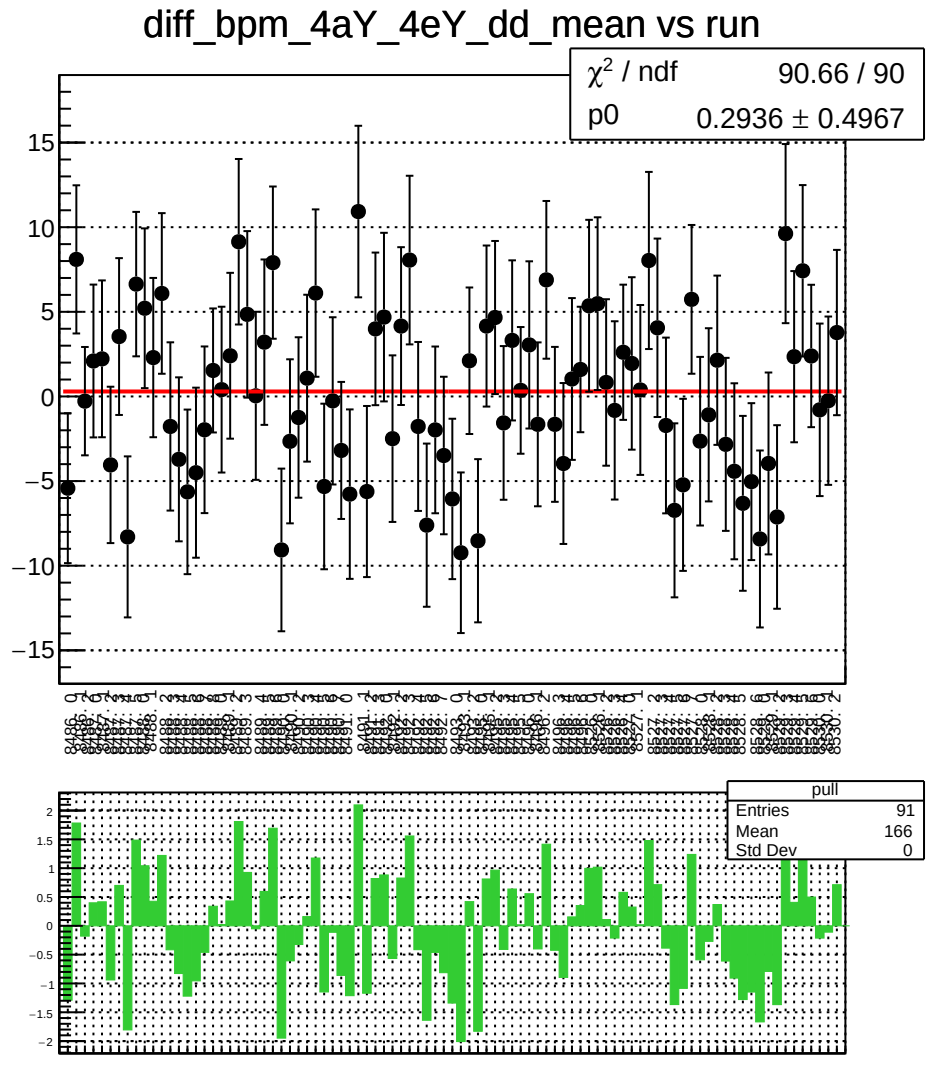

pull1D
Entries 91
Mean 0.003133
Std Dev 1.162

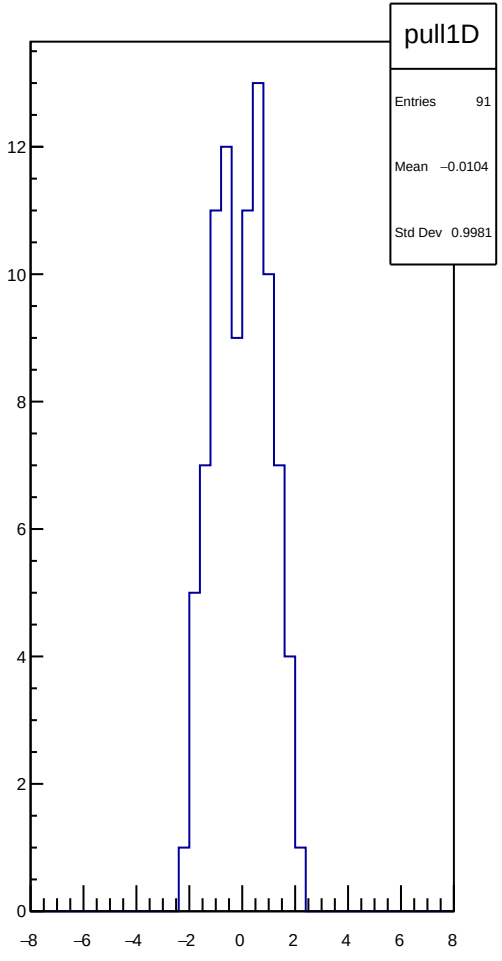

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 247.7 / 90
p0 784.9 ± 0.5935
810
800
790
780
770
760

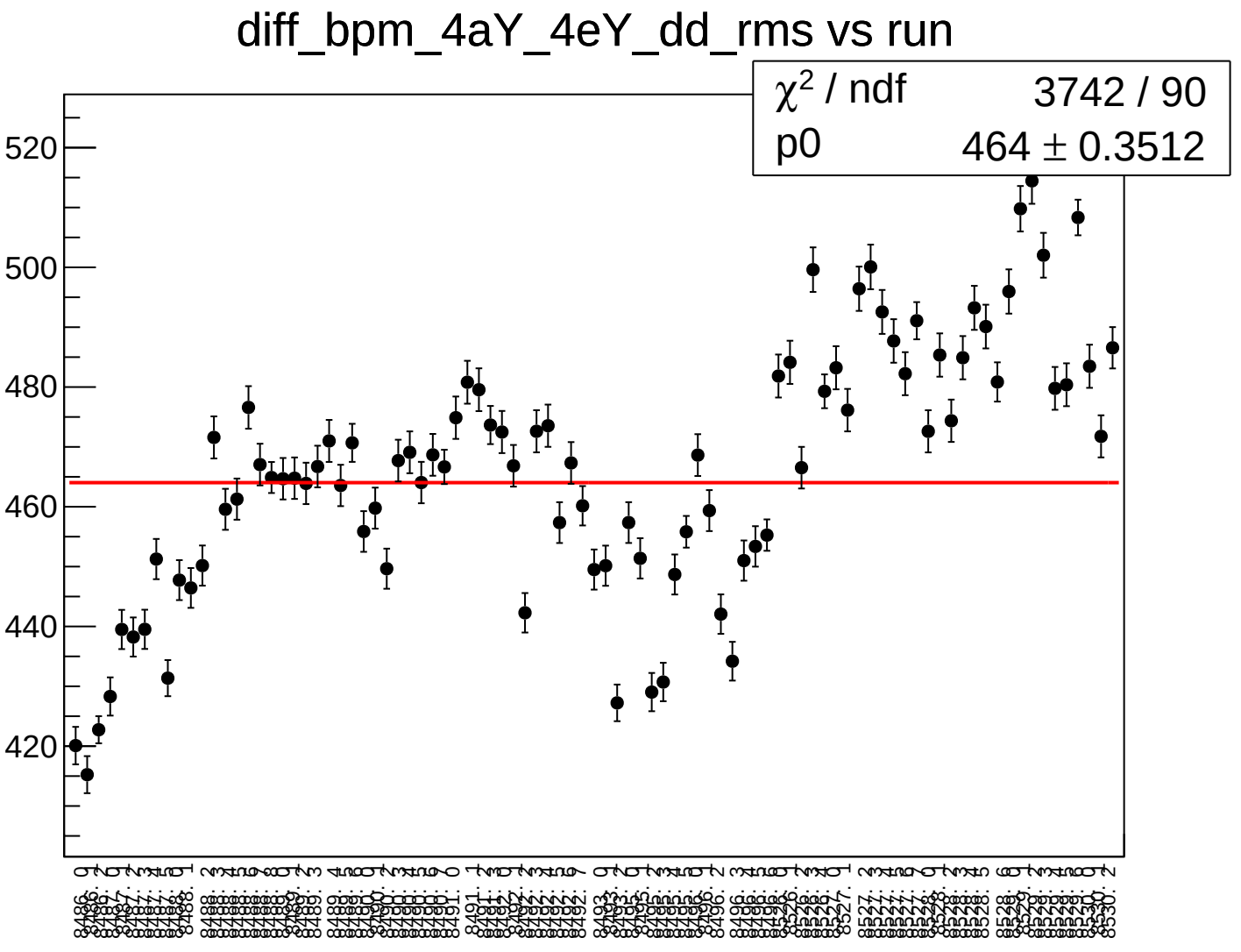

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 84.78 / 90
p0 28.96 ± 7.108
300
200
100
0
−100
−200
pull
Entries 91
Mean −161.8
Std Dev 0
2
1
0
−1
−2

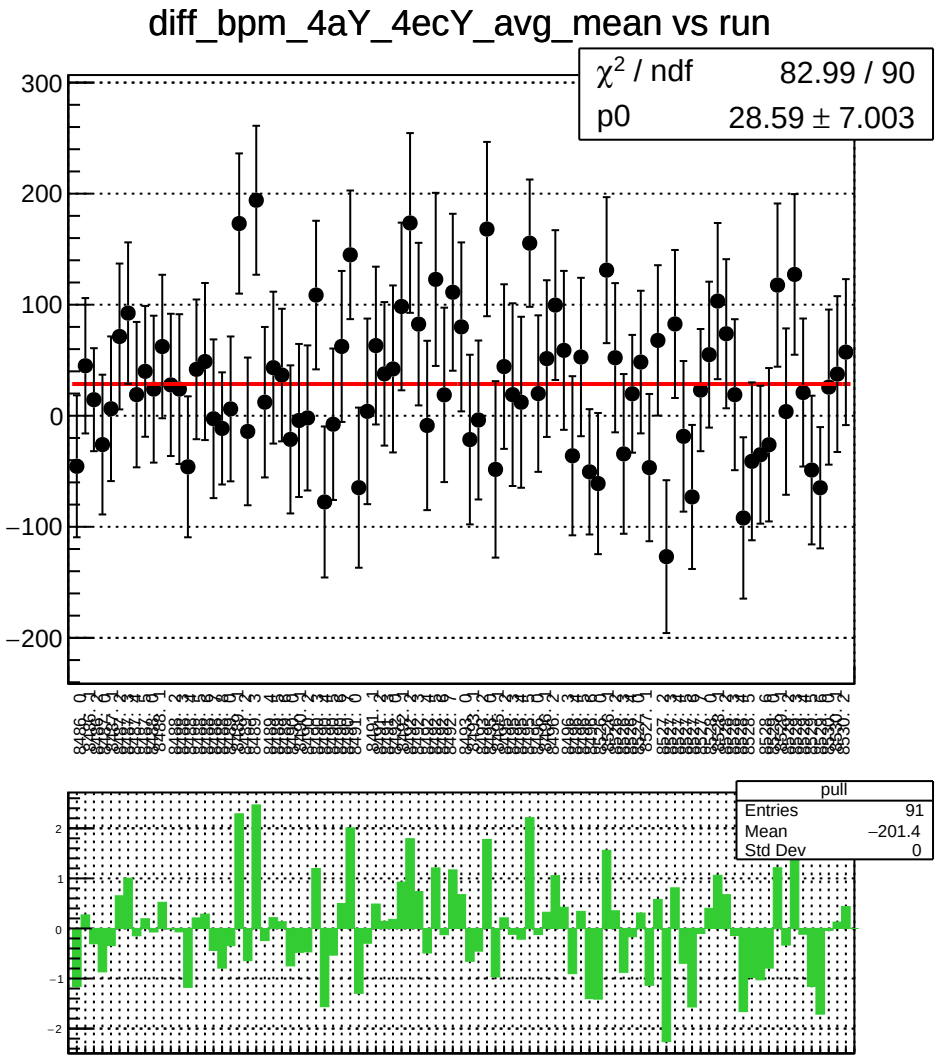

pull1D
Entries 91
Mean 0.01107
Std Dev 0.9651
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

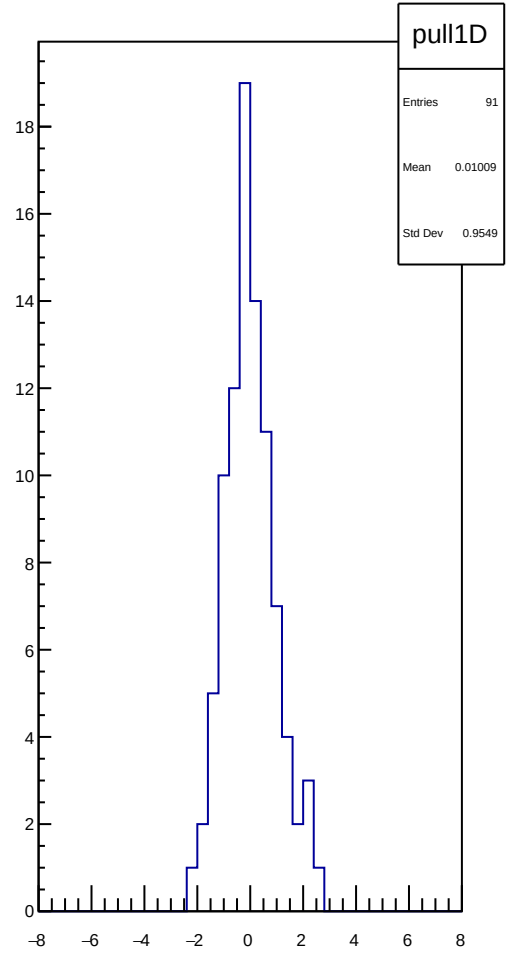

diff_bpm_4aY_4eY_avg_rms vs run
χ² / ndf 7548 / 90
p0 6633 ± 5.026
8000
7500
7000
6500
6000

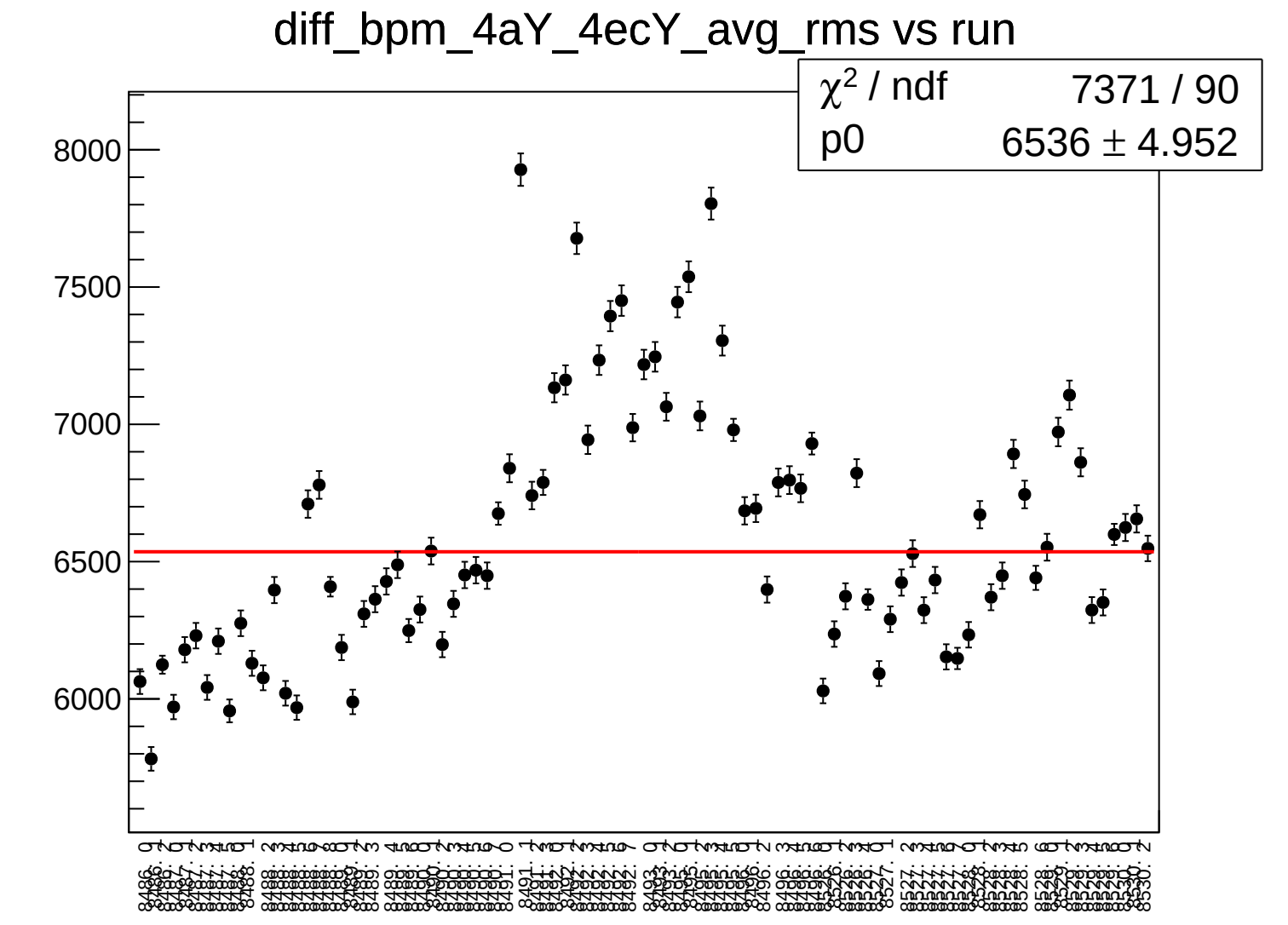

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 90.66 / 90
p0 0.2936 ± 0.4967
pull
Entries 91
Mean 166
Std Dev 0

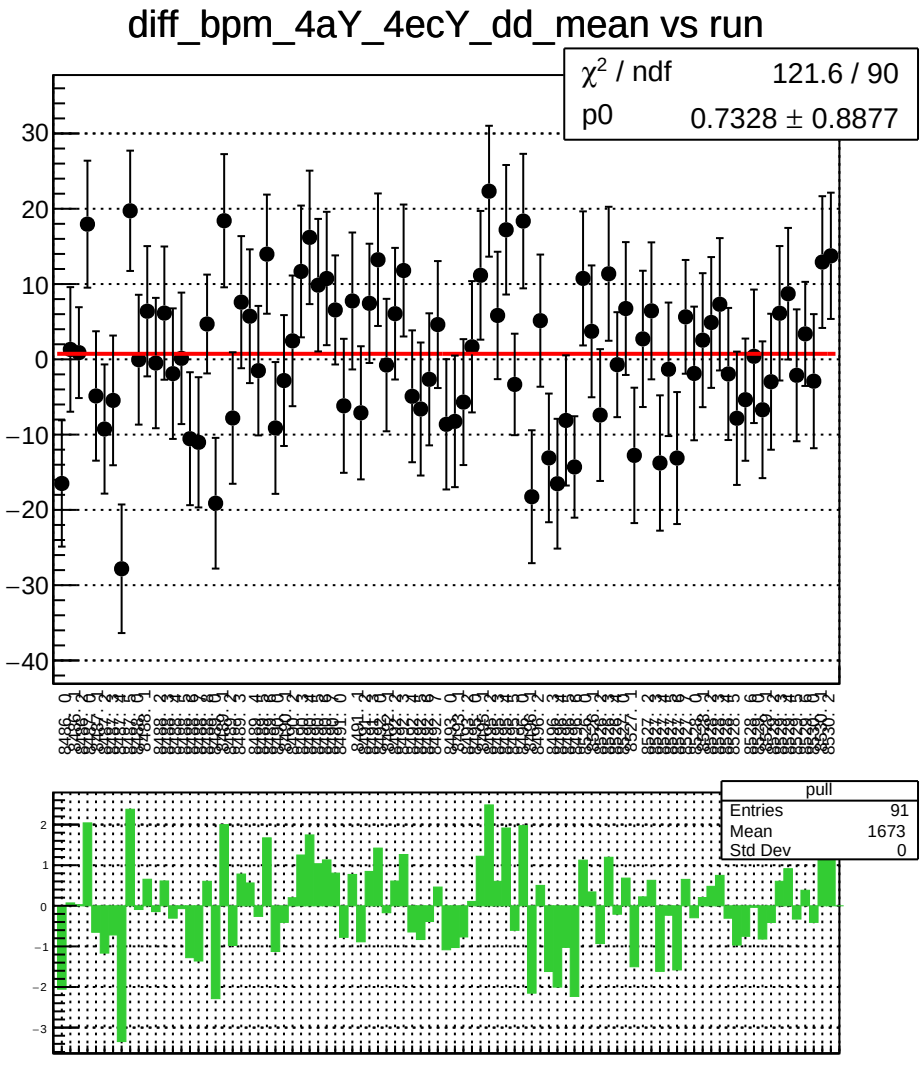

pull1D
Entries 91
Mean −0.0104
Std Dev 0.9981

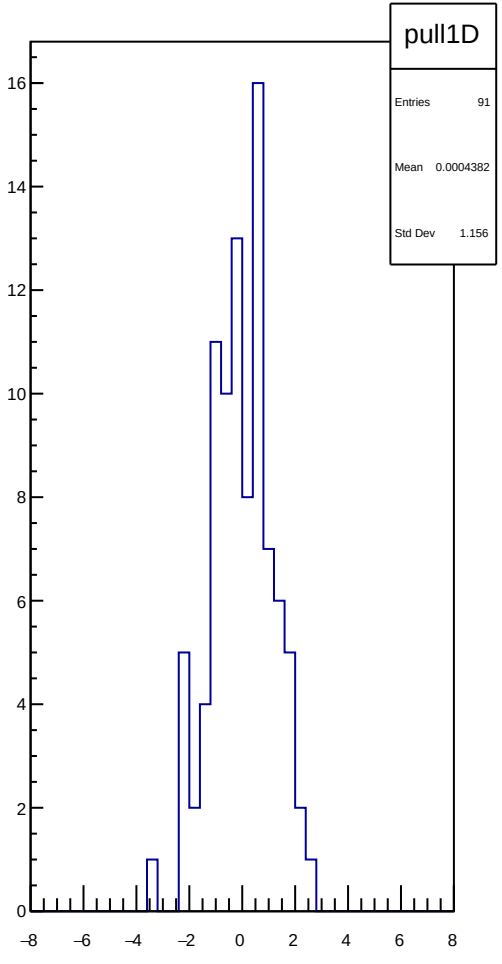

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 3742 / 90
p0 464 ± 0.3512
520
500
480
460
440
420

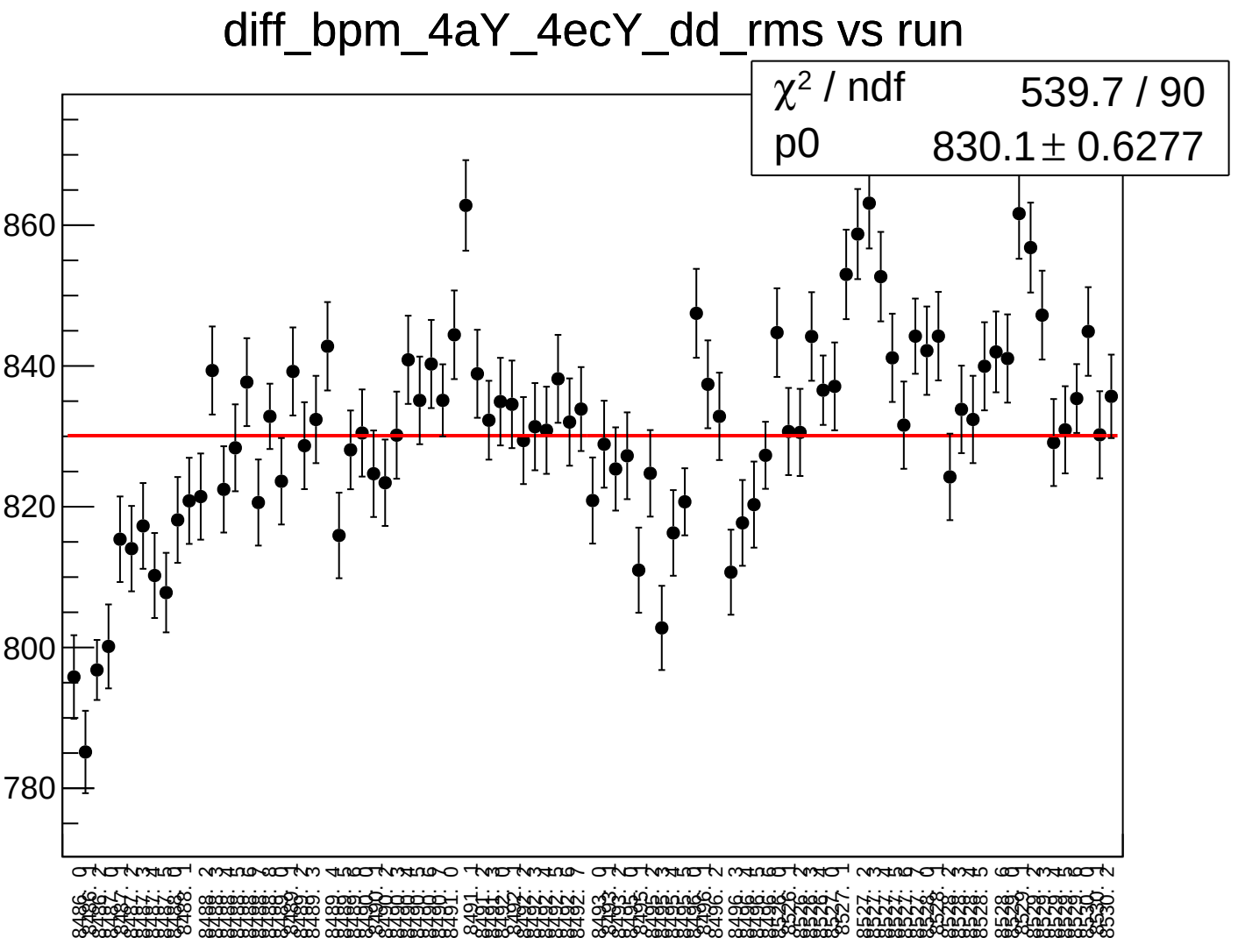

diff_bpm_4aY_4ecY_avg_mean vs run
χ² / ndf 82.99 / 90
p0 28.59 ± 7.003
pull
Entries 91
Mean −201.4
Std Dev 0

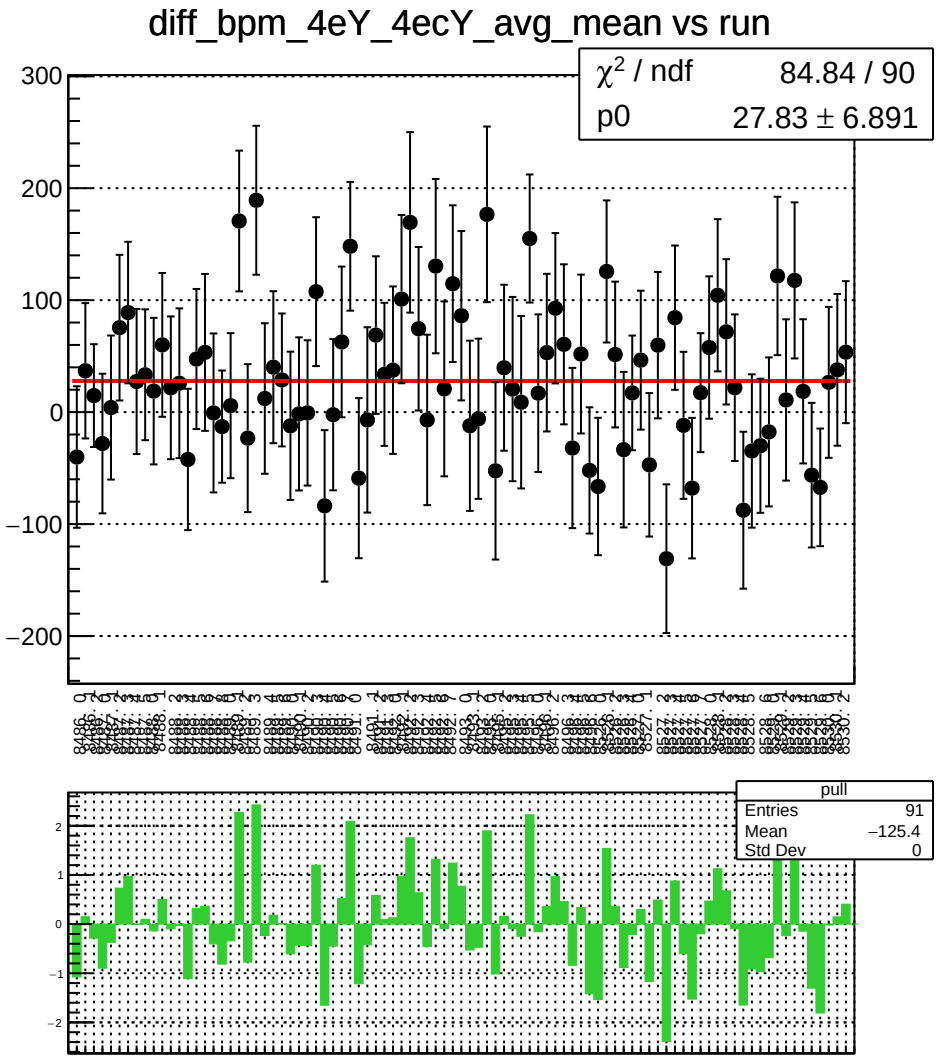

pull1D
Entries 91
Mean 0.01009
Std Dev 0.9549

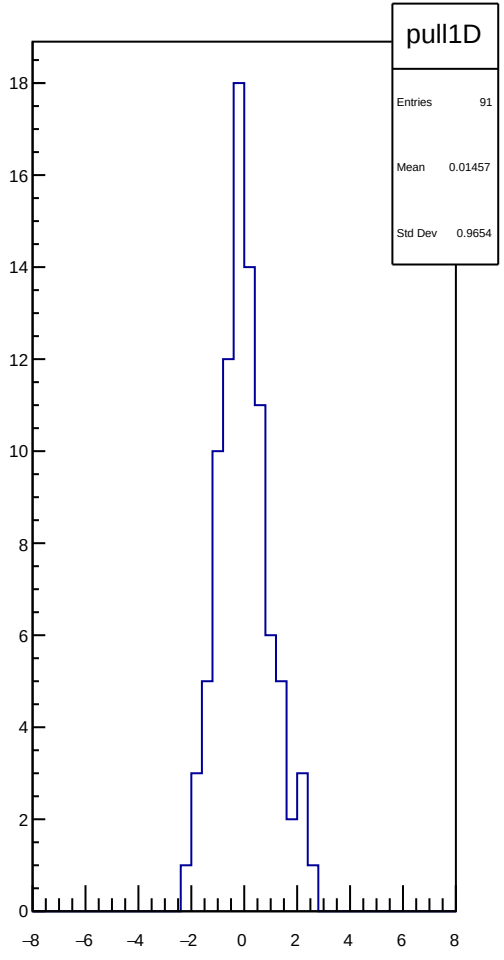

diff_bpm_4aY_4ecY_avg_rms vs run
χ² / ndf 7371 / 90
p0 6536 ± 4.952
8000
7500
7000
6500
6000

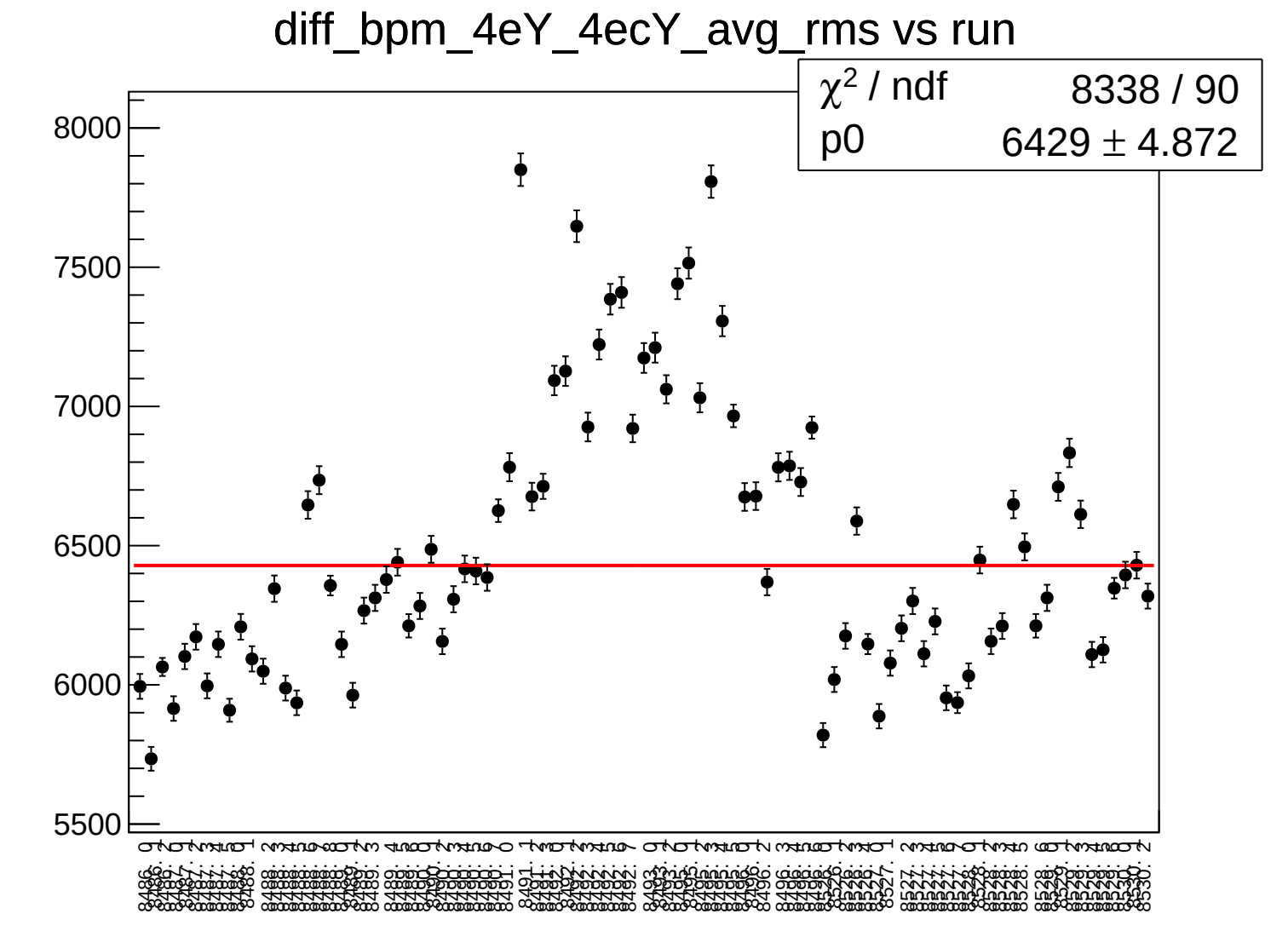

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 121.6 / 90
p0 0.7328 ± 0.8877
pull
Entries 91
Mean 1673
Std Dev 0

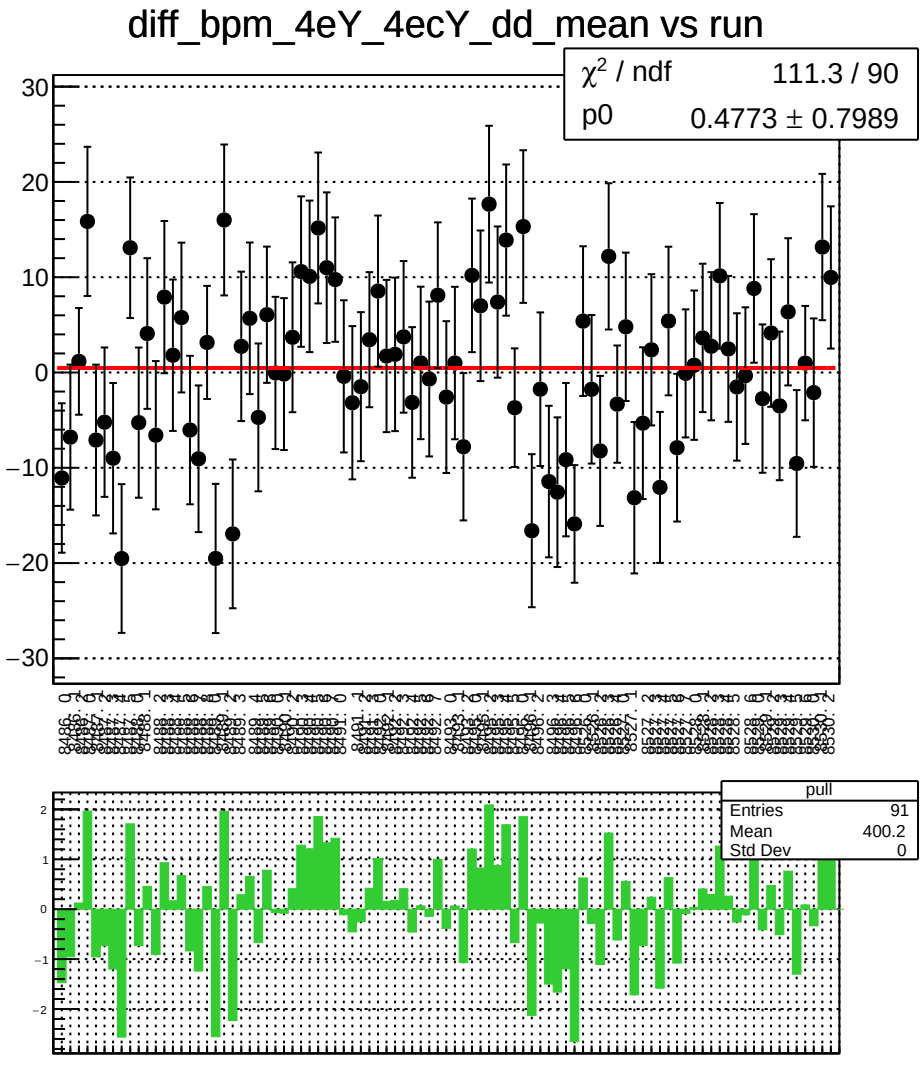

pull1D
Entries 91
Mean 0.0004382
Std Dev 1.156

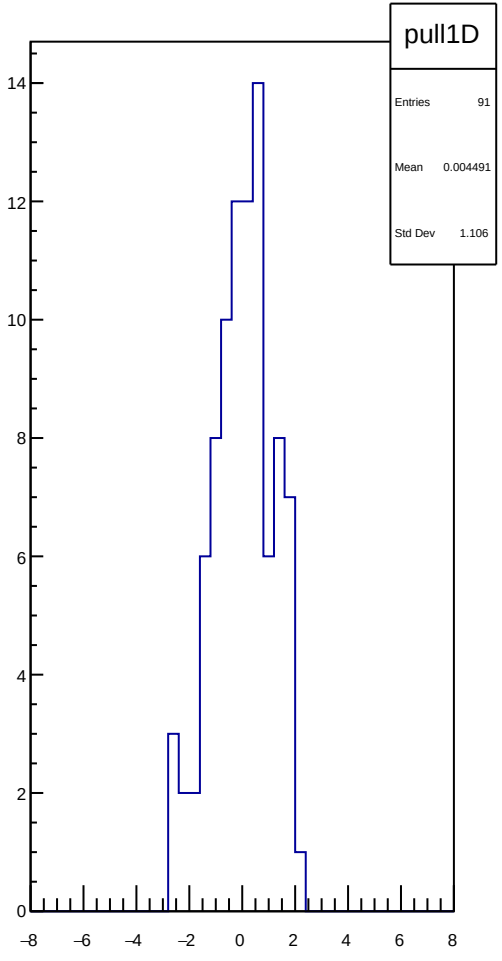

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 539.7 / 90
p0 830.1 ± 0.6277
860
840
820
800
780

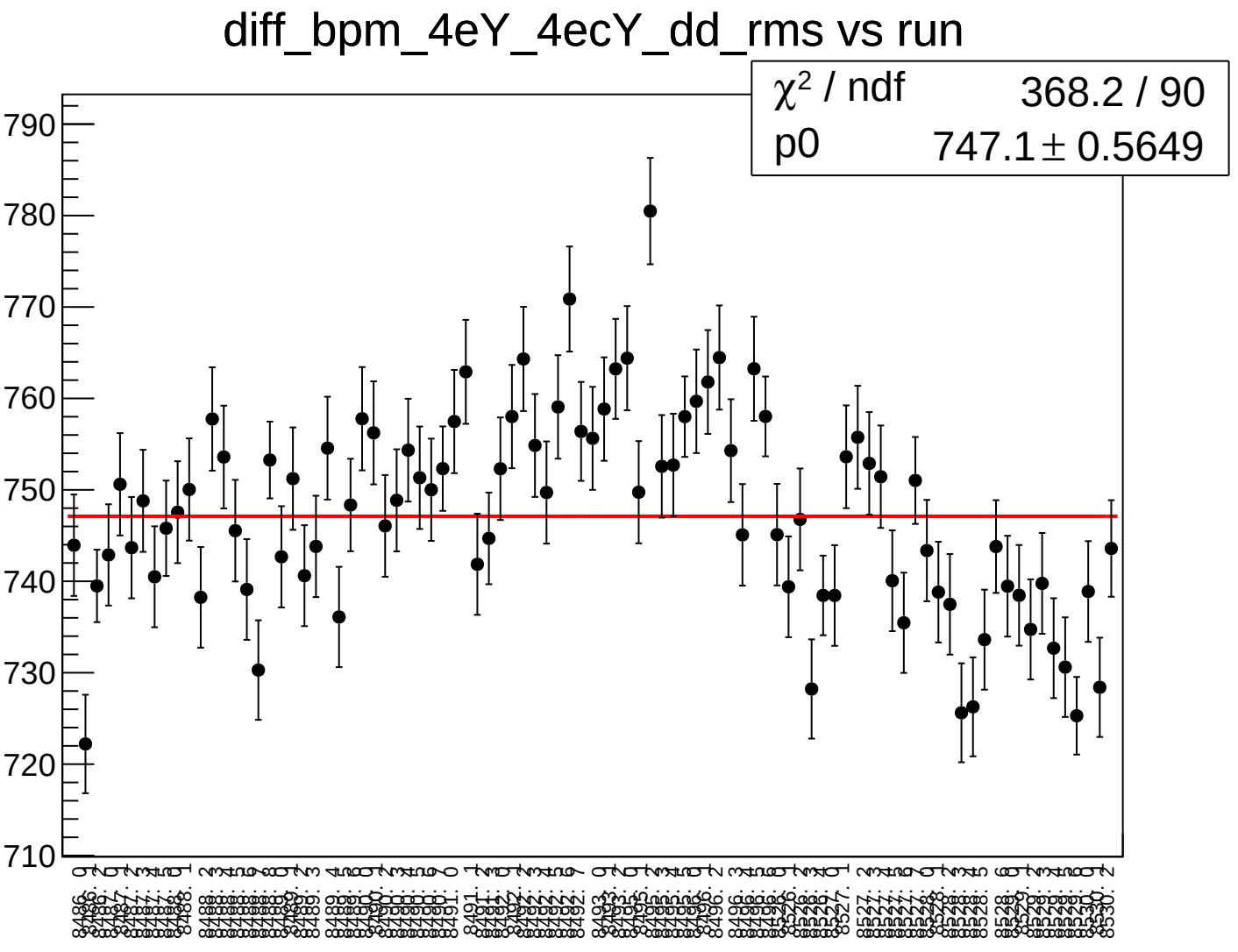

diff_bpm_4eY_4ecY_avg_mean vs run
χ² / ndf 84.84 / 90
p0 27.83 ± 6.891
300
200
100
0
−100
−200
pull
Entries 91
Mean −125.4
Std Dev 0
2
1
0
−1
−2

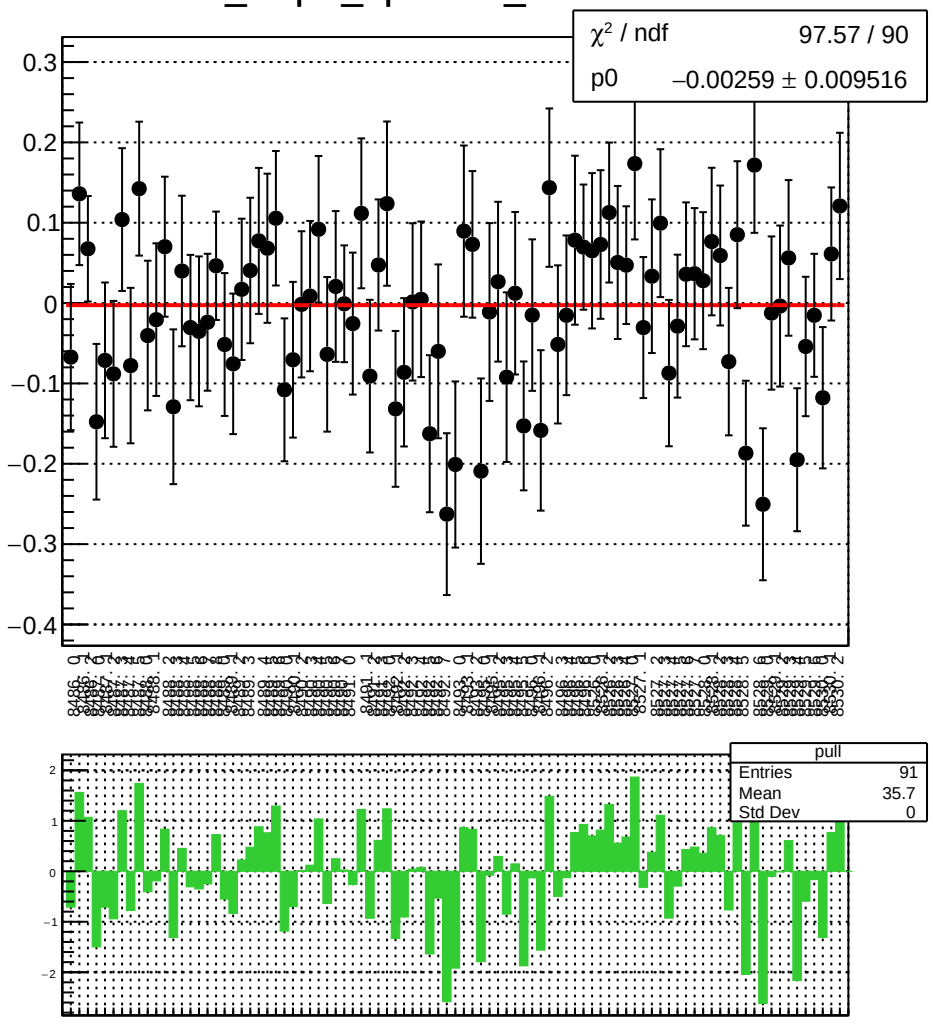

pull1D
Entries 91
Mean 0.01457
Std Dev 0.9654
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

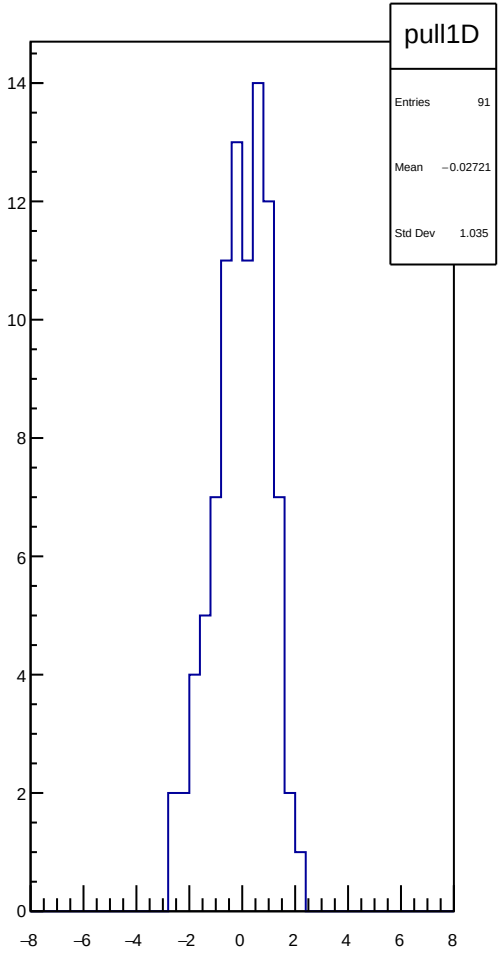

diff_bpm_4eY_4ecY_avg_rms vs run
χ² / ndf 8338 / 90
p0 6429 ± 4.872
8000
7500
7000
6500
6000
5500

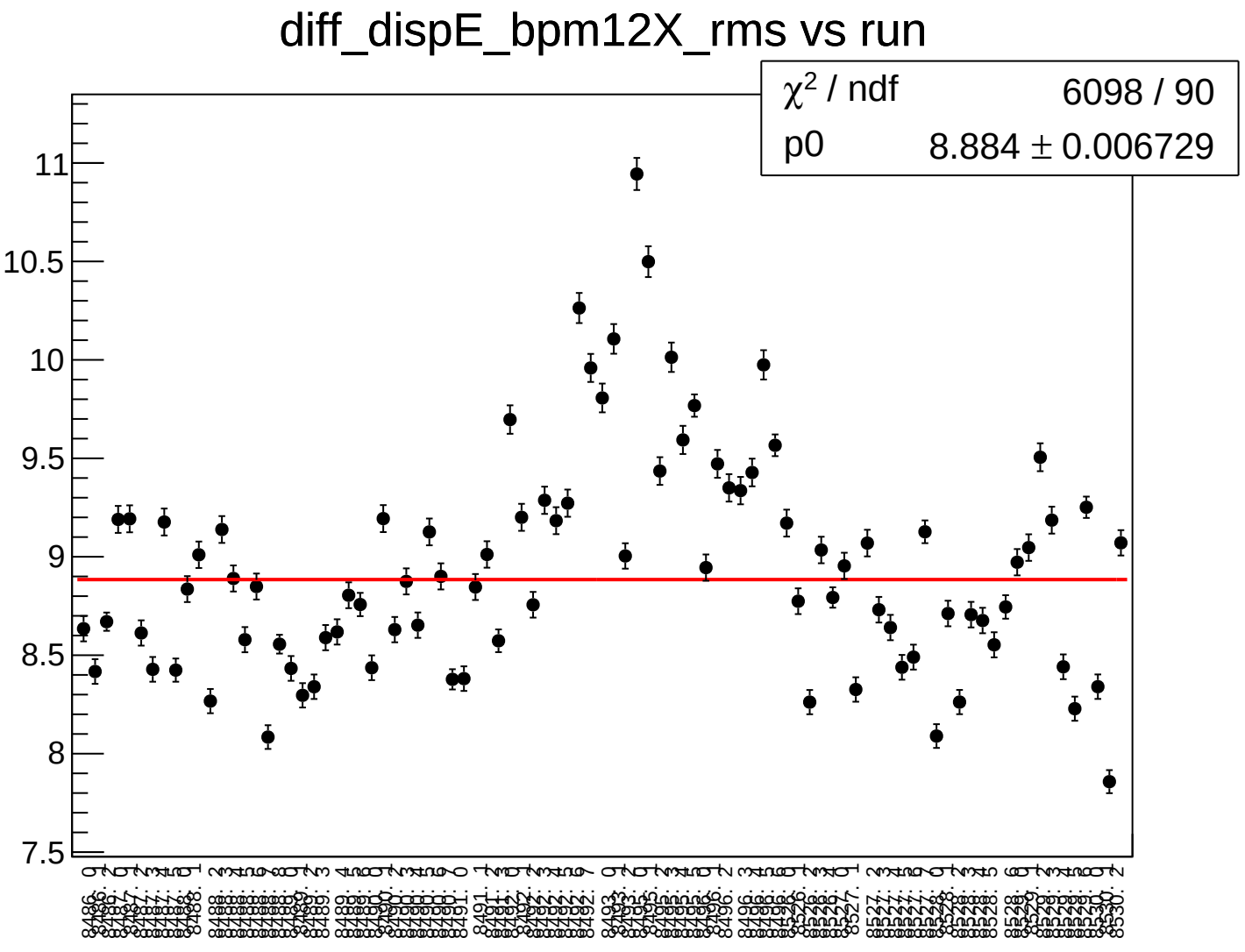

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 111.3 / 90
p0 0.4773 ± 0.7989
pull
Entries 91
Mean 400.2
Std Dev 0

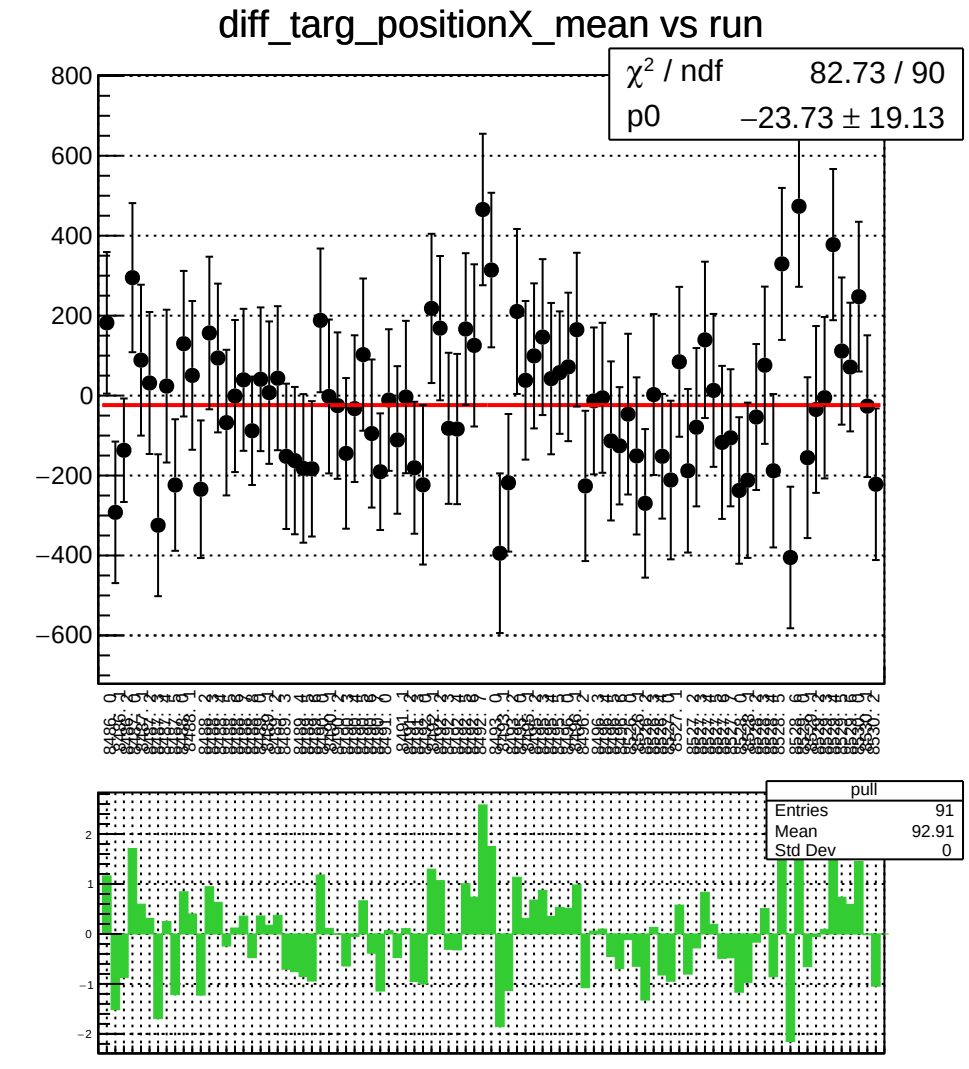

pull1D
Entries 91
Mean 0.004491
Std Dev 1.106

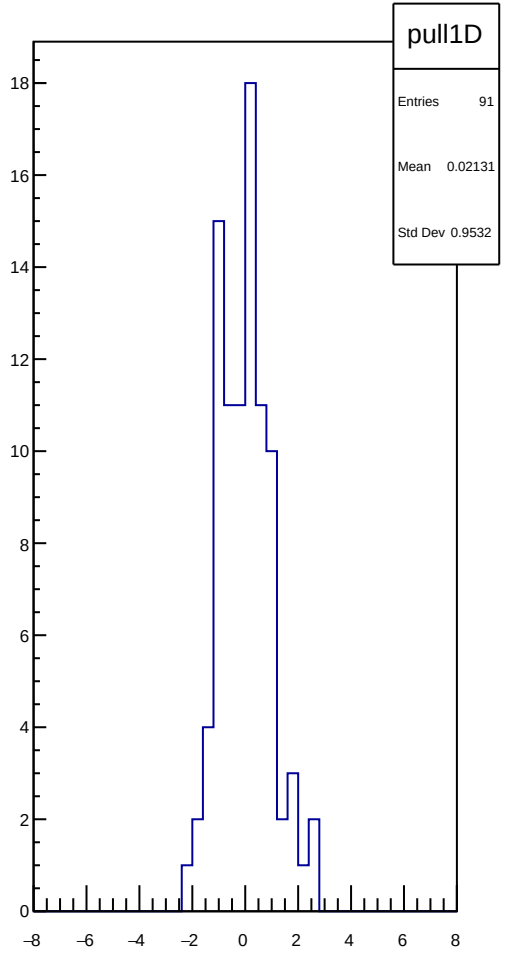

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 368.2 / 90
p0 747.1 ± 0.5649
790
780
770
760
750
740
730
720
710


diff_dispE_bpm12X_mean vs run
χ² / ndf 97.57 / 90
p0 −0.00259 ± 0.009516
pull
Entries 91
Mean 35.7
Std Dev 0

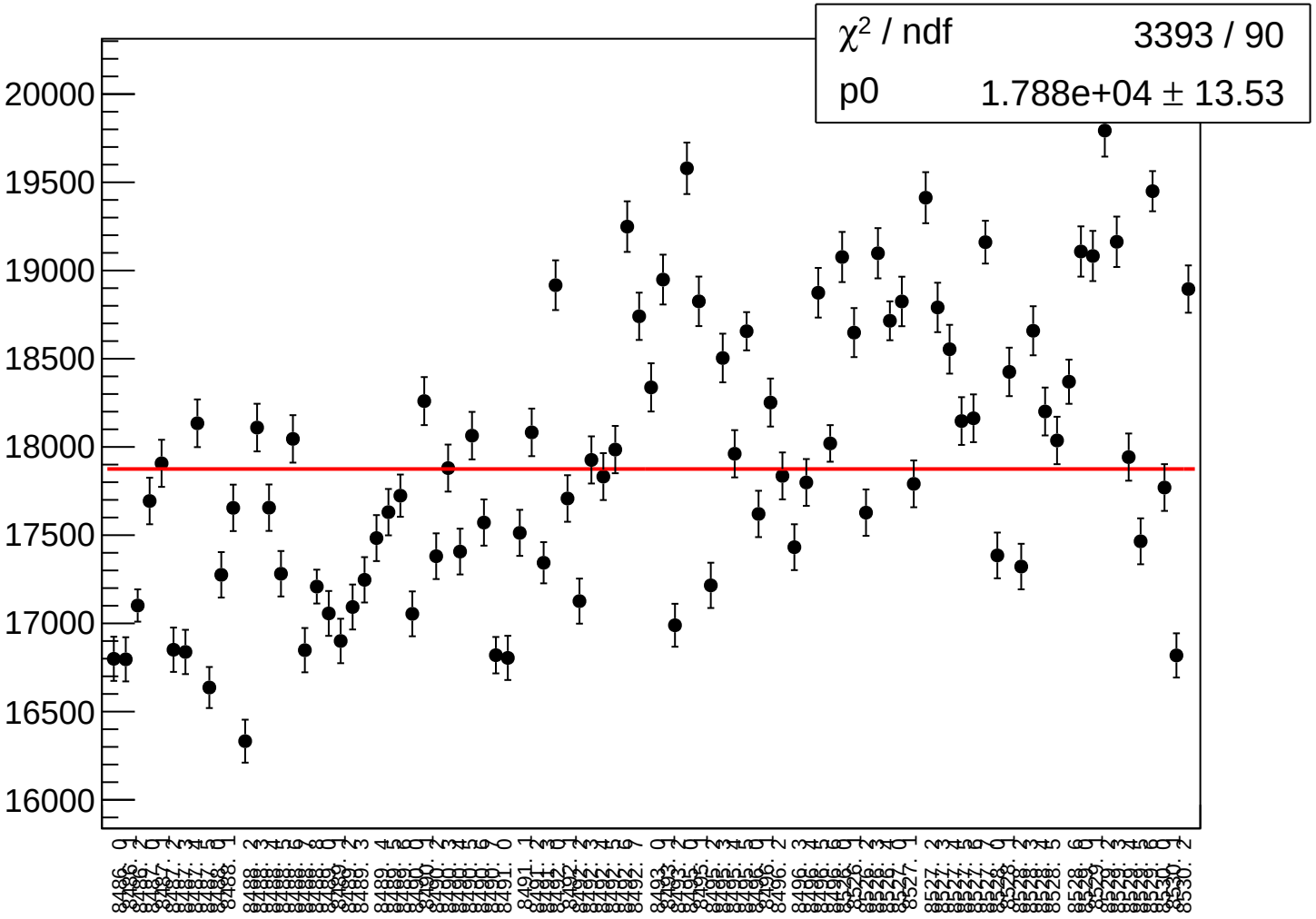

pull1D
Entries 91
Mean −0.02721
Std Dev 1.035

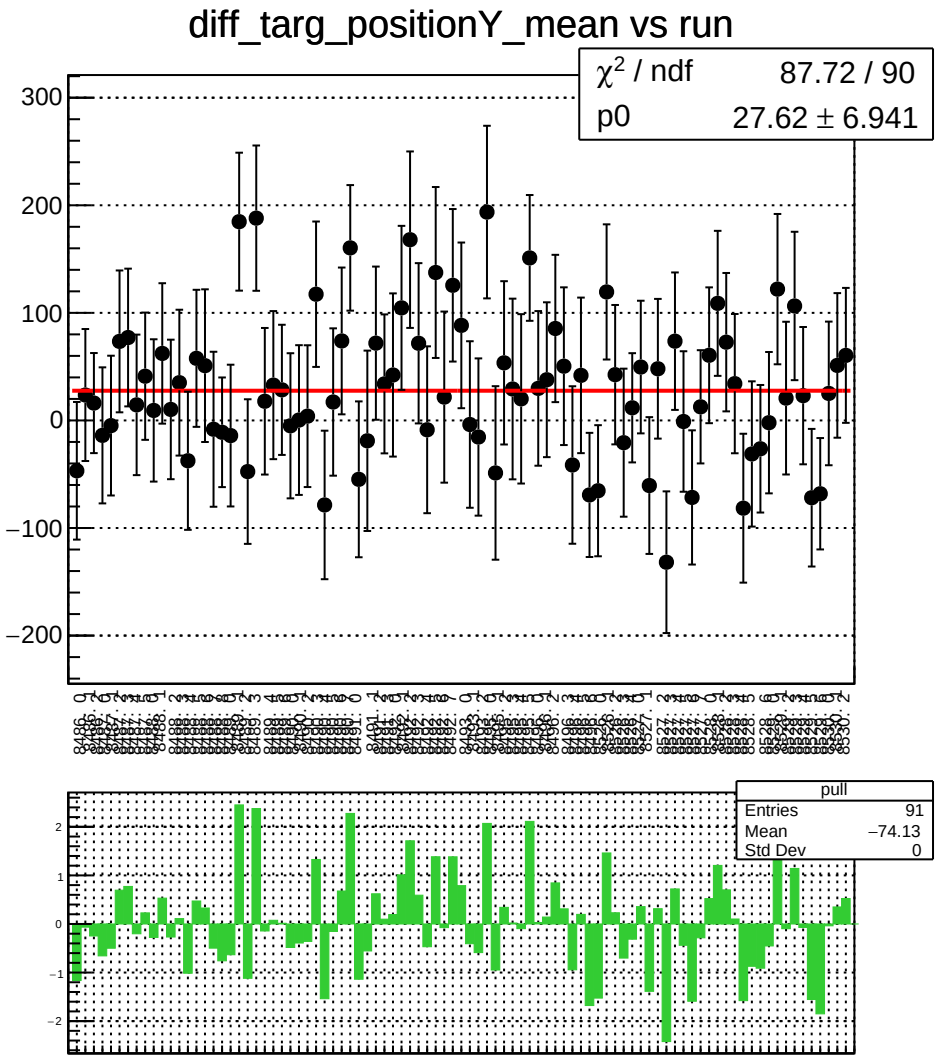

diff_dispE_bpm12X_rms vs run
χ² / ndf 6098 / 90
p0 8.884 ± 0.006729
11
10.5
10
9.5
9
8.5
8
7.5

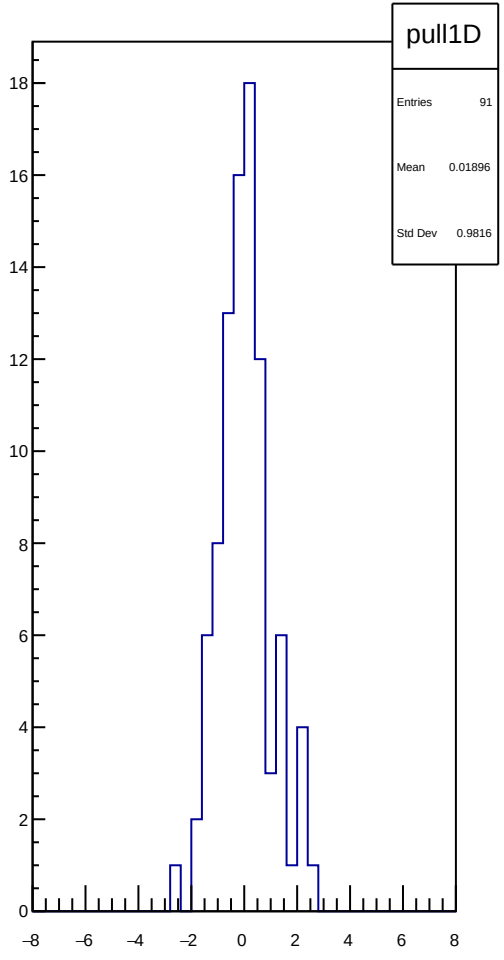

diff_targ_positionX_mean vs run
χ² / ndf 82.73 / 90
p0 −23.73 ± 19.13
pull
Entries 91
Mean 92.91
Std Dev 0

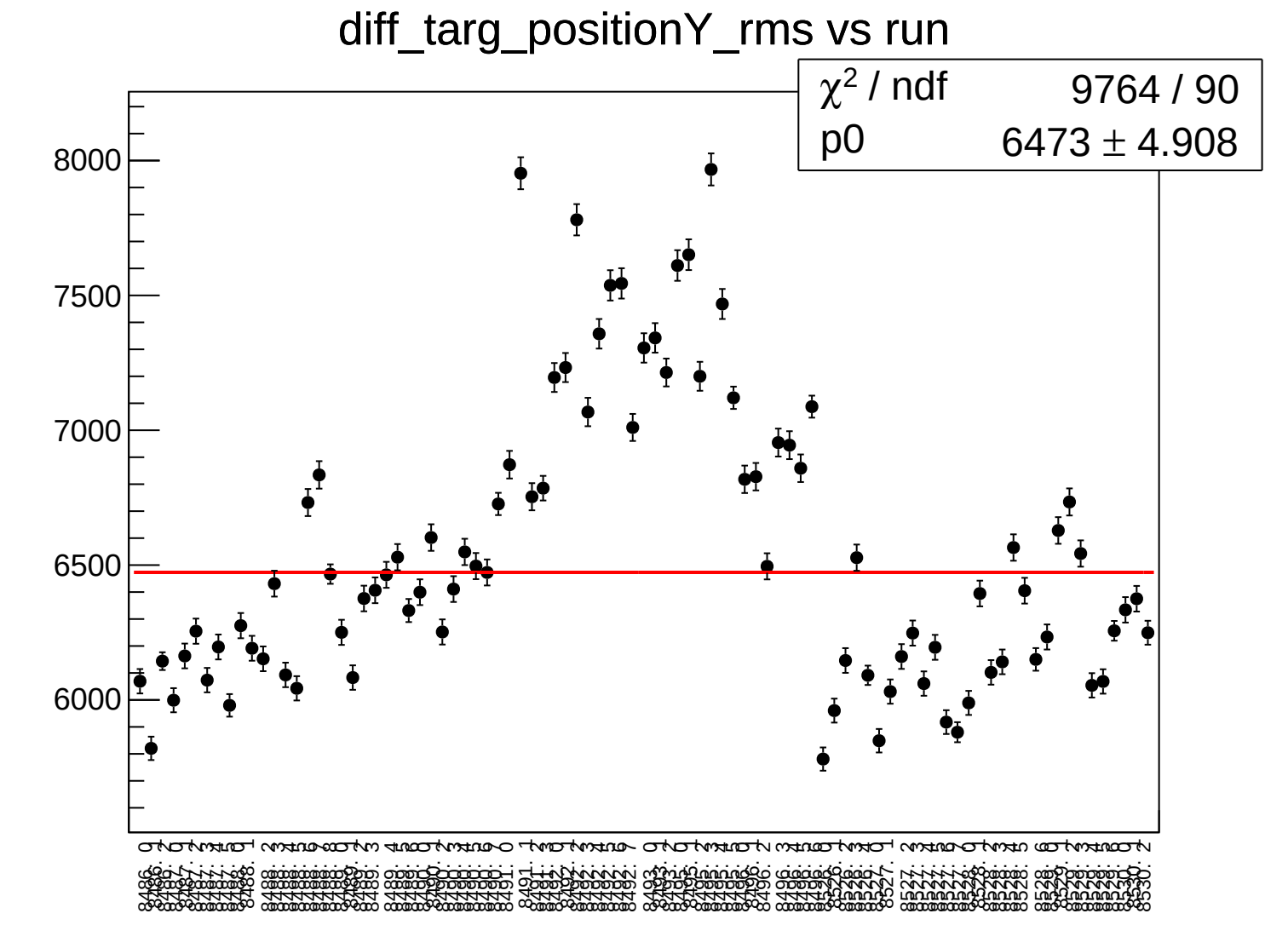

pull1D
Entries 91
Mean 0.02131
Std Dev 0.9532

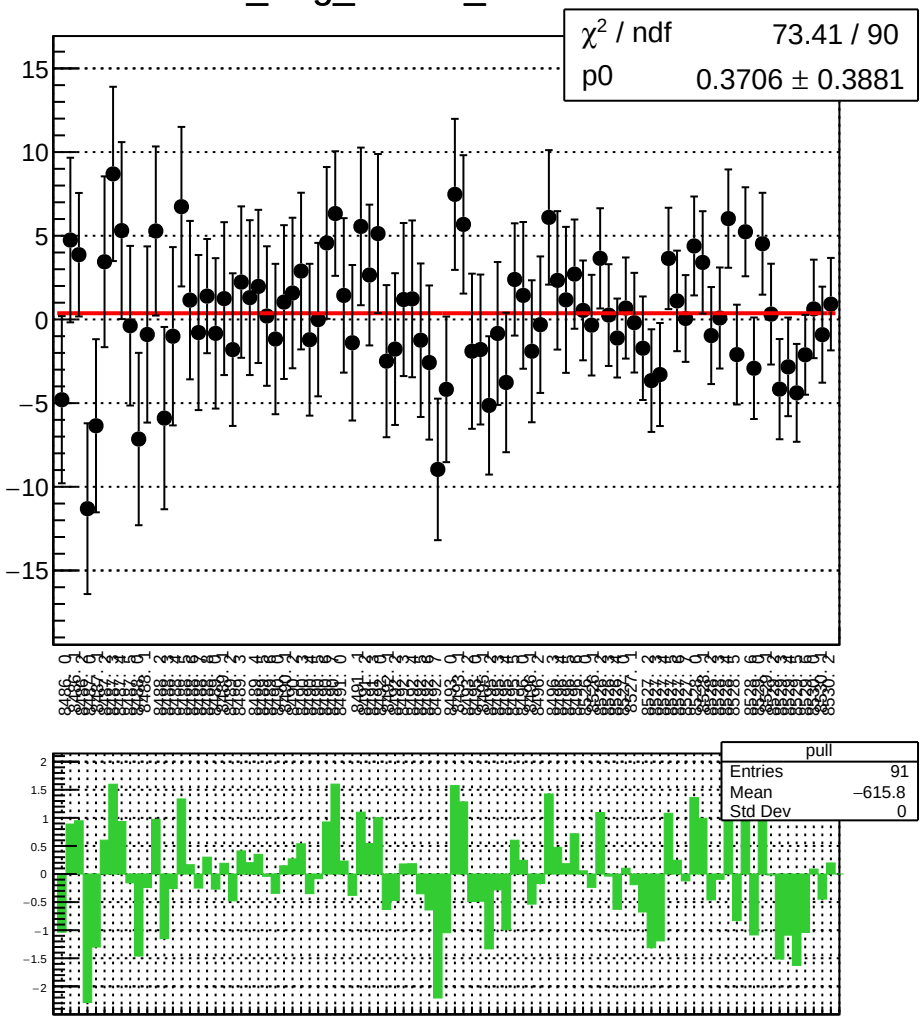
diff_targ_positionX_rms vs run

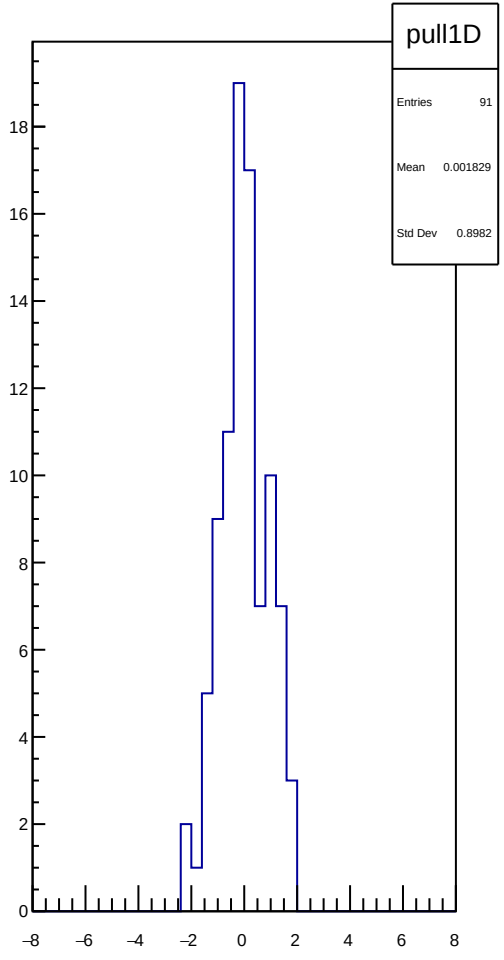


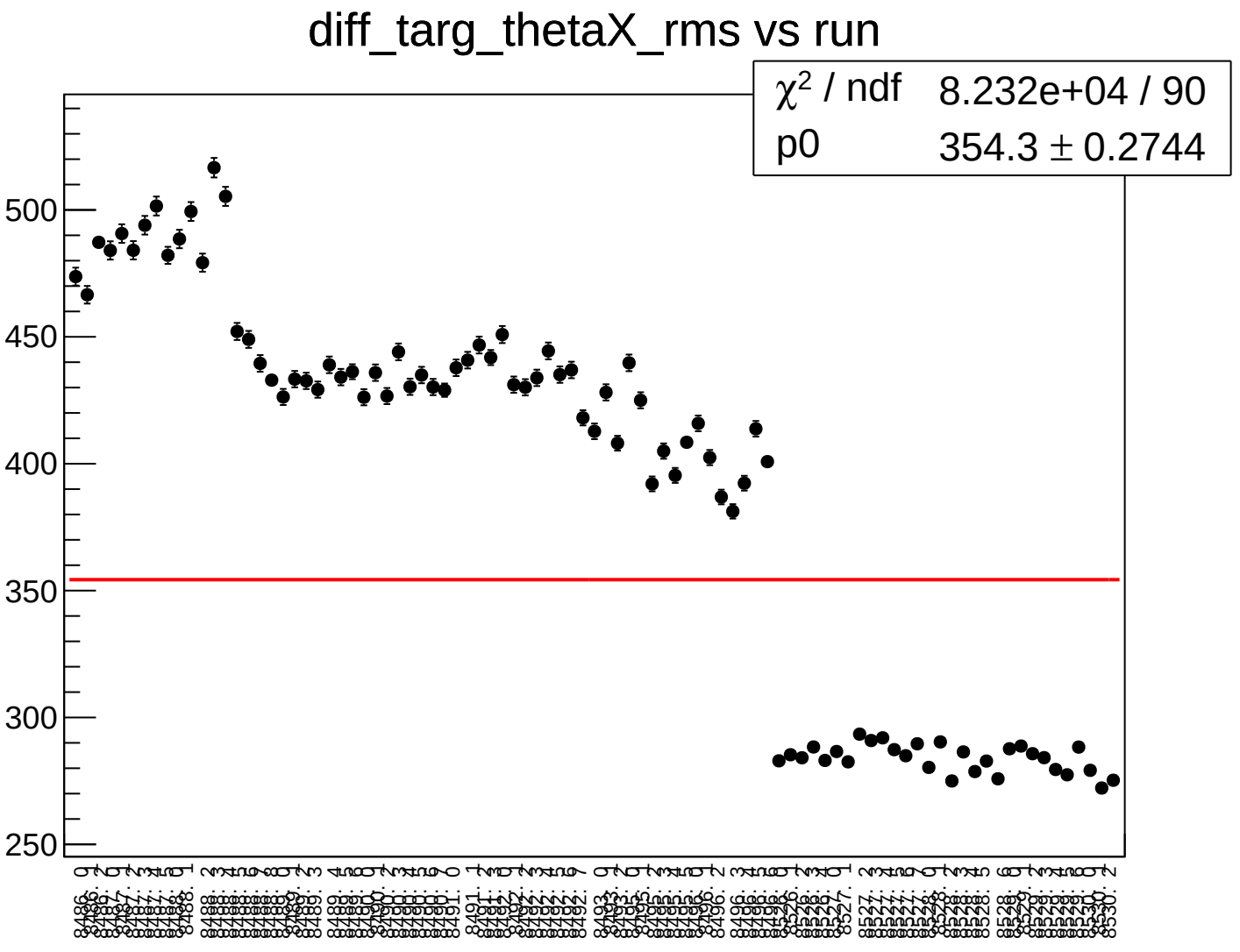

diff_targ_positionY_mean vs run
χ^2 / ndf 87.72 / 90
p0 27.62 ± 6.941
300
200
100
0
−100
−200
pull
Entries 91
Mean −74.13
Std Dev 0
2
1
0
−1
−2

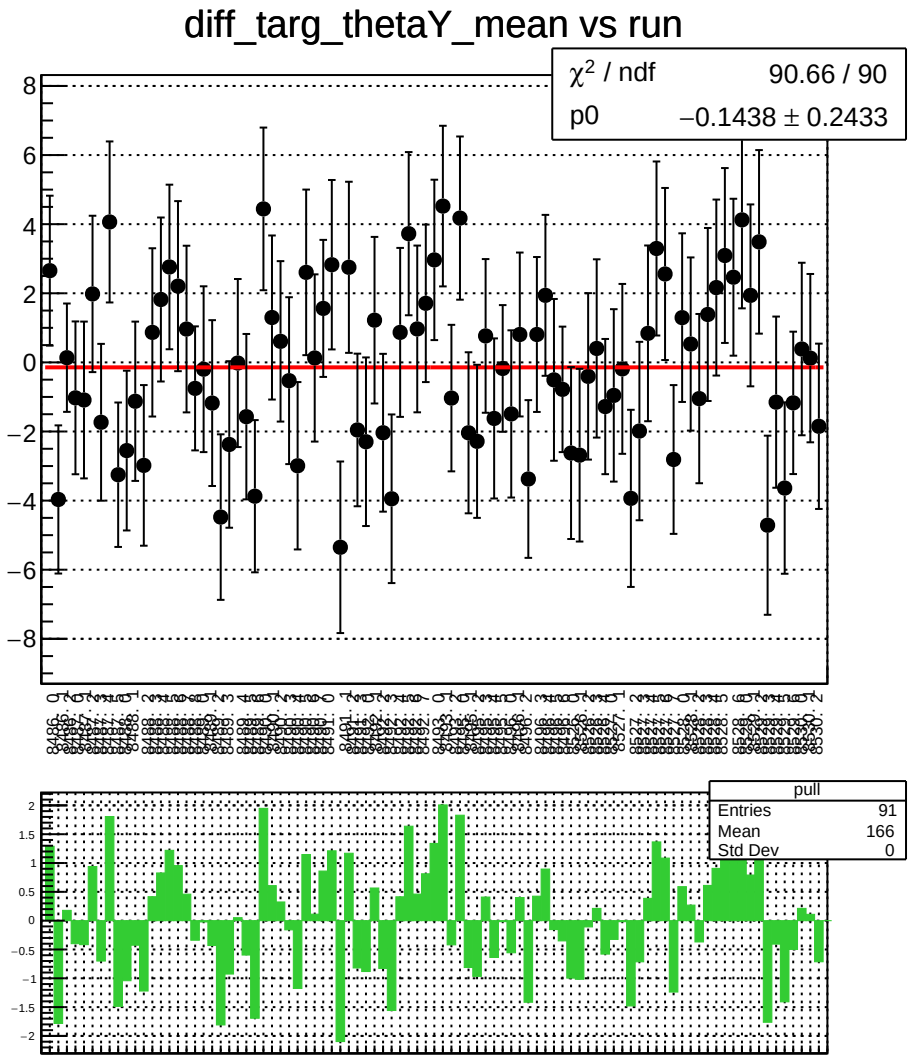

pull1D
Entries 91
Mean 0.01896
Std Dev 0.9816
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

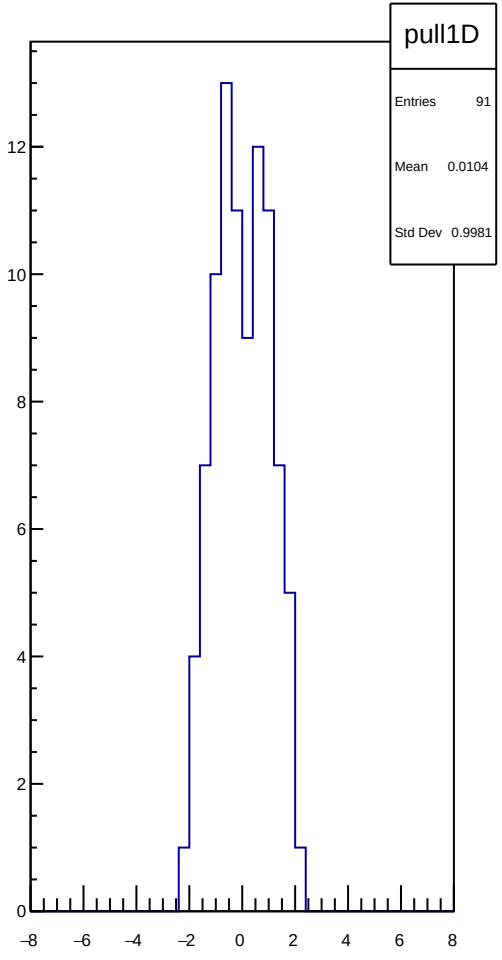

diff_targ_positionY_rms vs run
χ² / ndf 9764 / 90
p0 6473 ± 4.908
8000
7500
7000
6500
6000

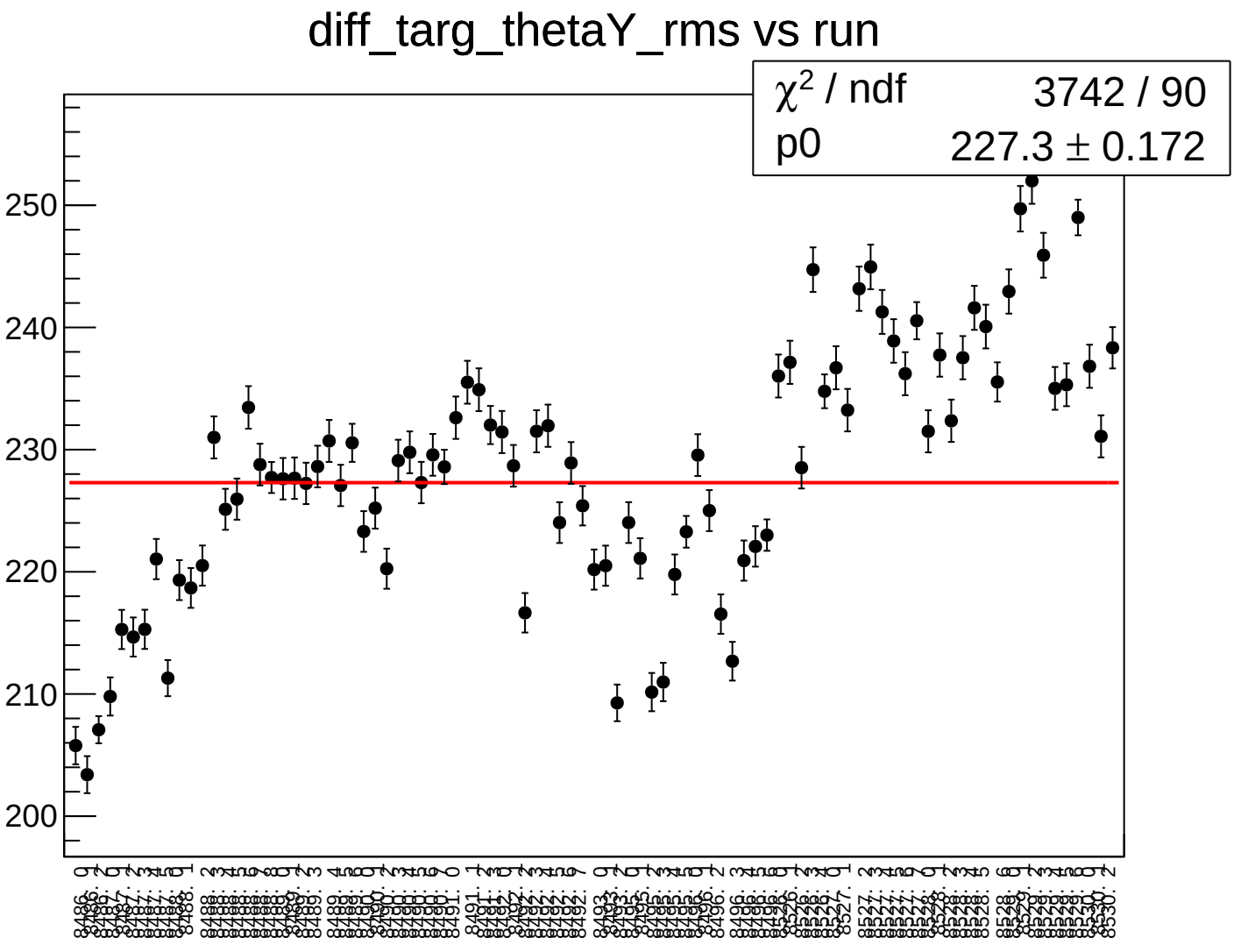

diff_targ_thetaX_mean vs run
χ² / ndf 73.41 / 90
p0 0.3706 ± 0.3881
pull
Entries 91
Mean −615.8
Std Dev 0

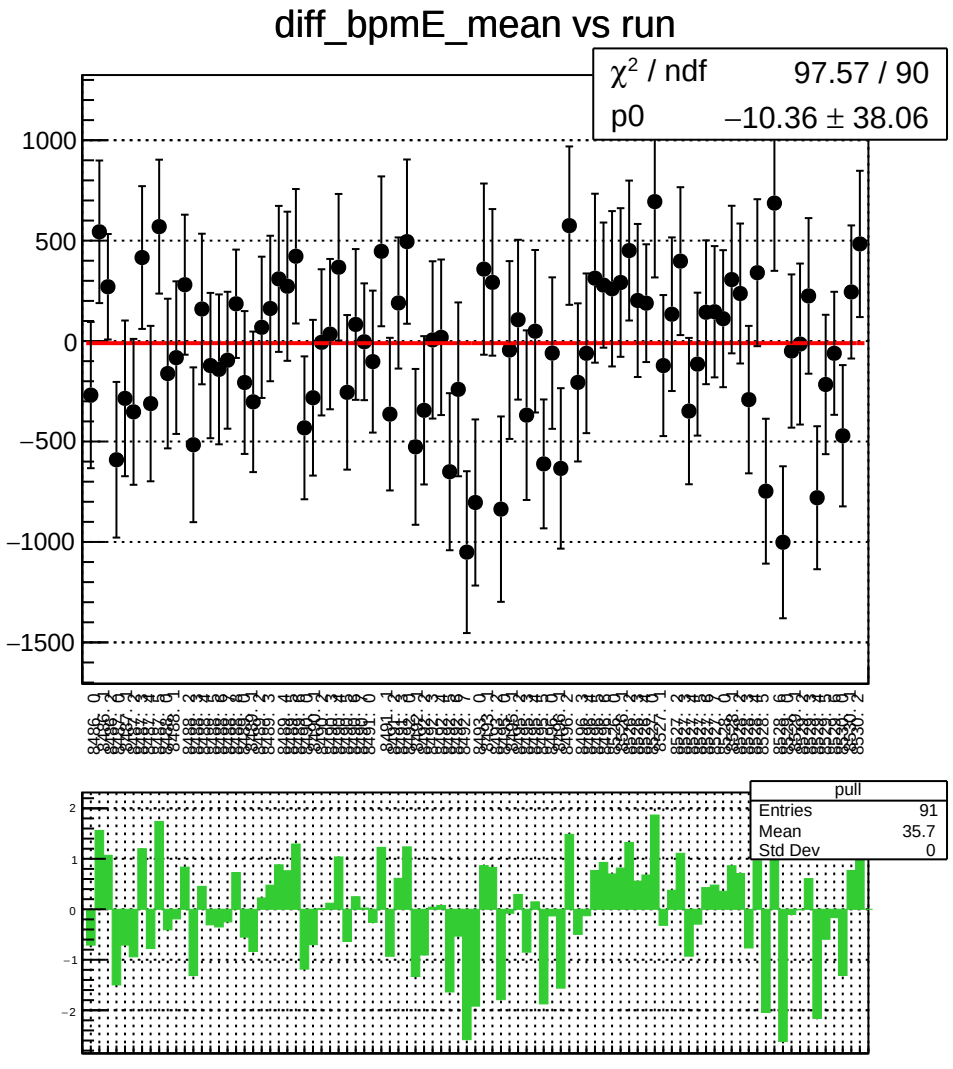

pull1D
Entries 91
Mean 0.001829
Std Dev 0.8982

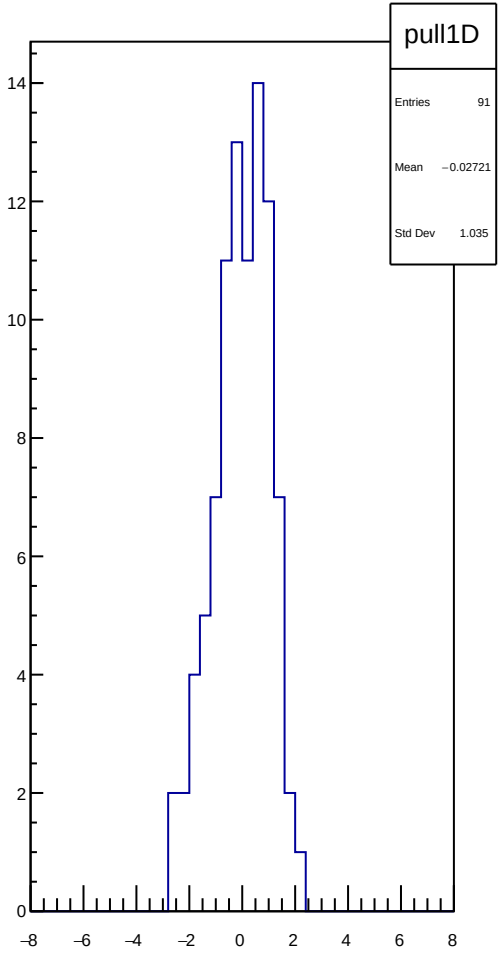

diff_targ_thetaX_rms vs run
χ² / ndf 8.232e+04 / 90
p0 354.3 ± 0.2744
500
450
400
350
300
250

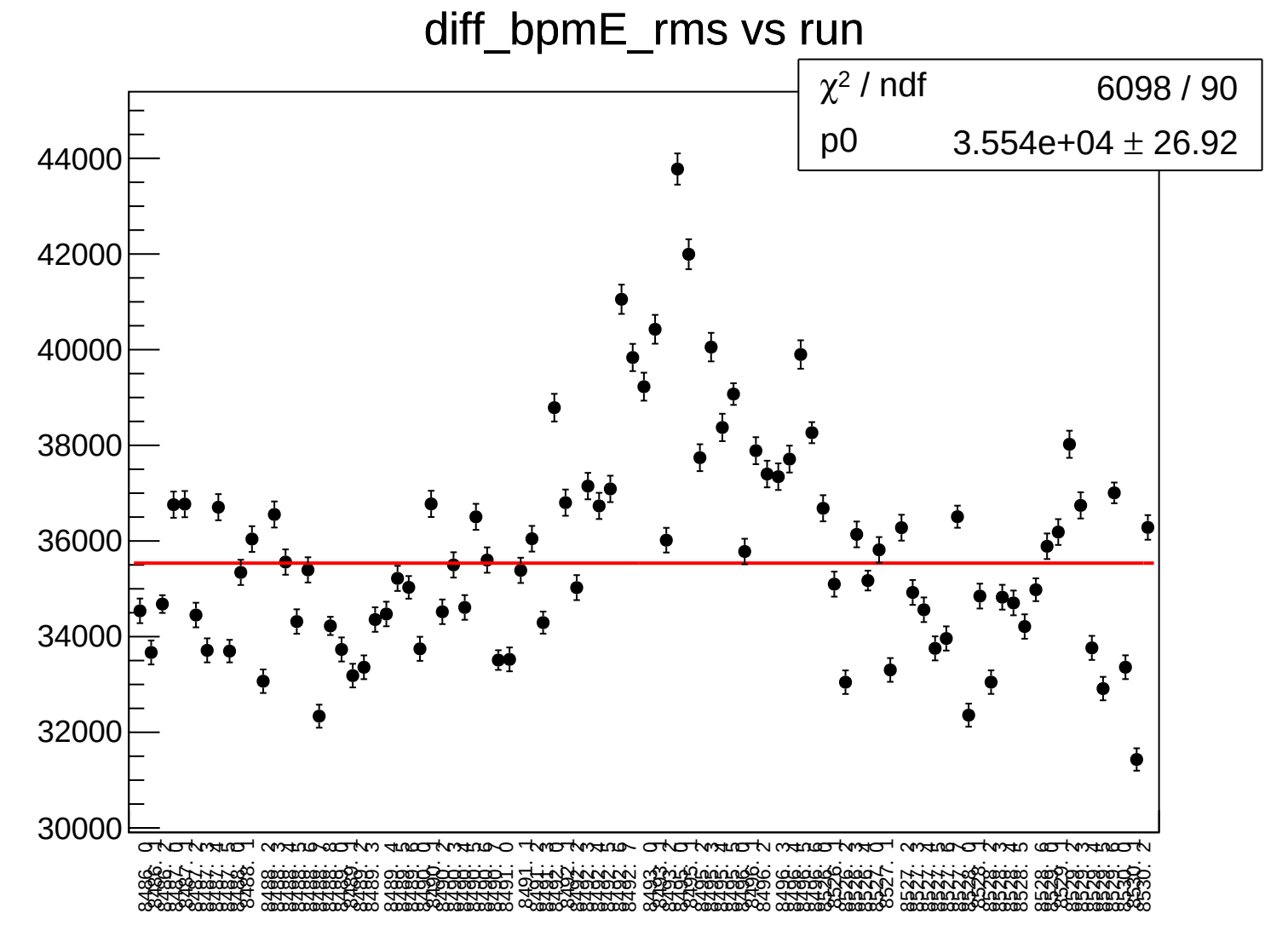

diff_targ_thetaY_mean vs run
χ² / ndf 90.66 / 90
p0 −0.1438 ± 0.2433
pull
Entries 91
Mean 166
Std Dev 0

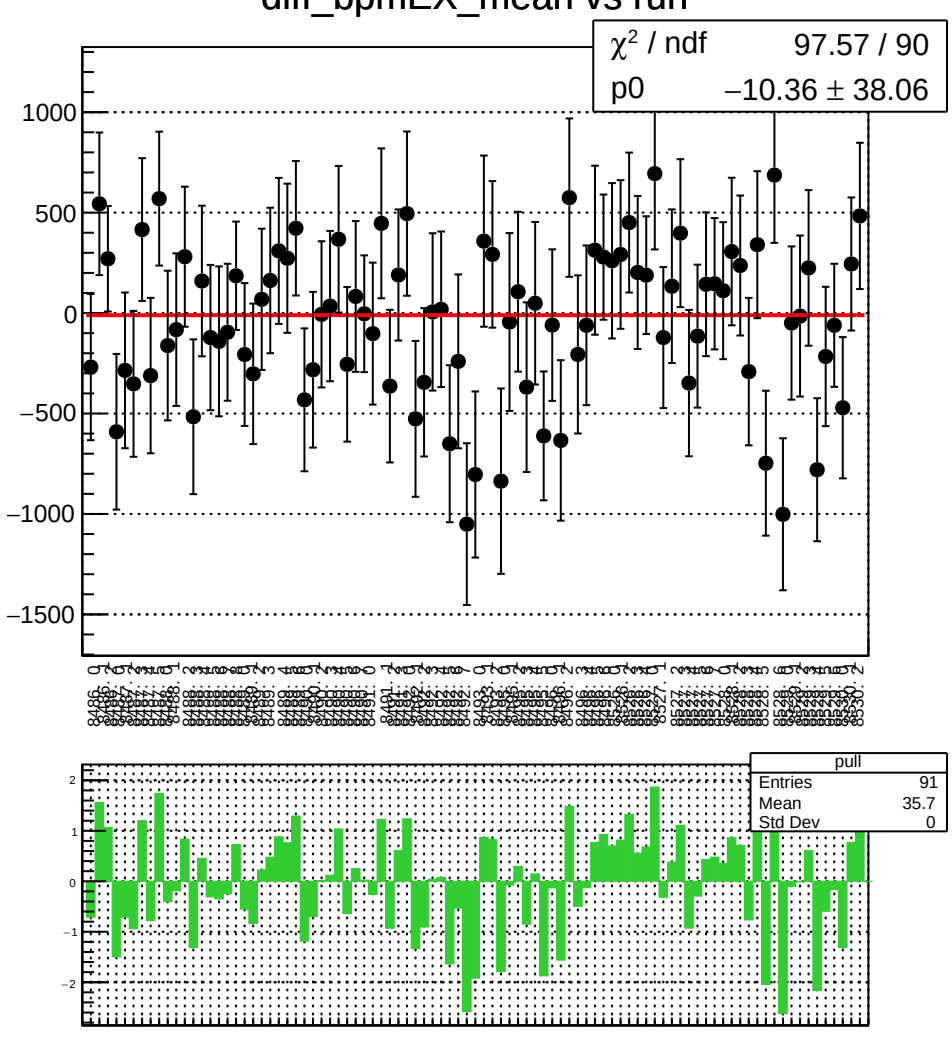

pull1D
Entries 91
Mean 0.0104
Std Dev 0.9981

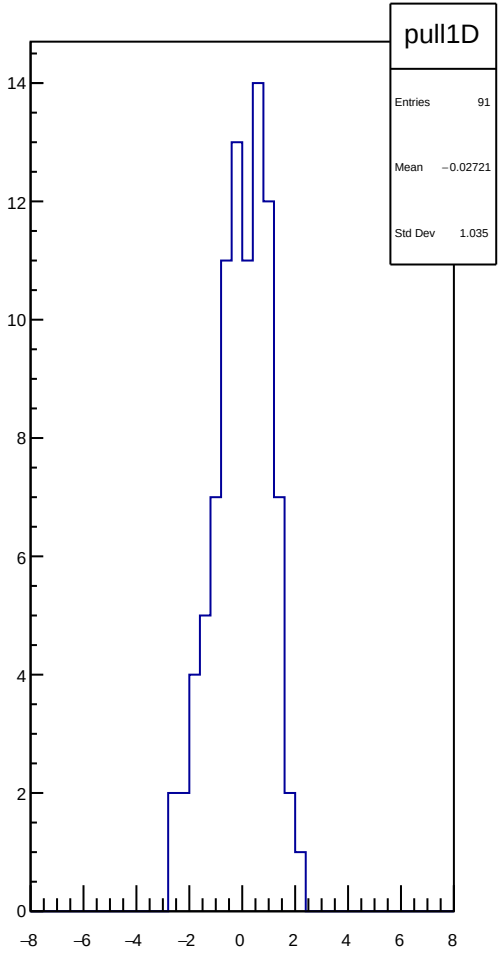

diff_targ_thetaY_rms vs run
χ^2 / ndf 3742 / 90
p0 227.3 ± 0.172
250
240
230
220
210
200

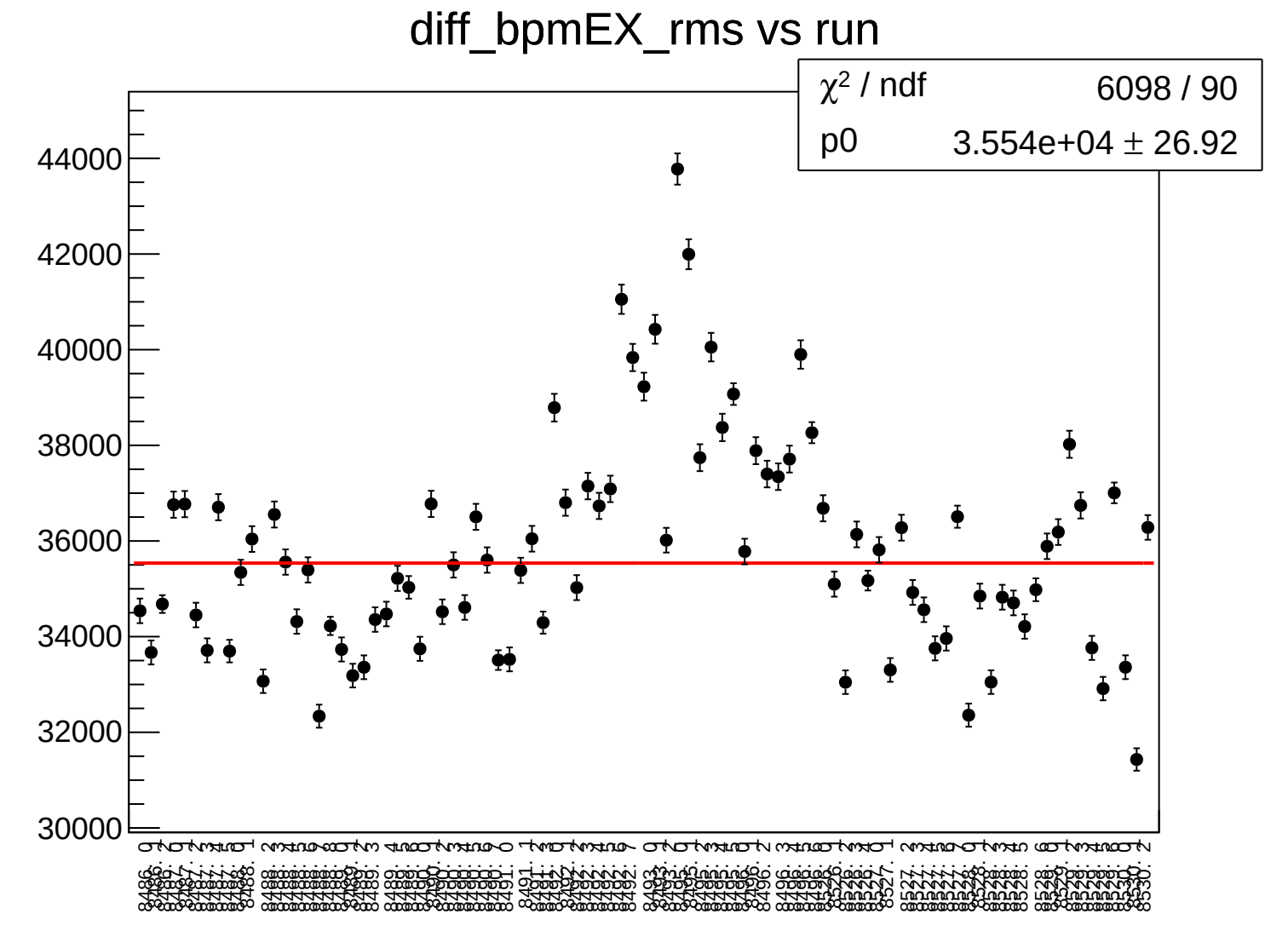

diff_bpmE_mean vs run
χ² / ndf 97.57 / 90
p0 −10.36 ± 38.06
1000
500
0
−500
−1000
−1500
pull
Entries 91
Mean 35.7
Std Dev 0
2
1
0
−1
−2

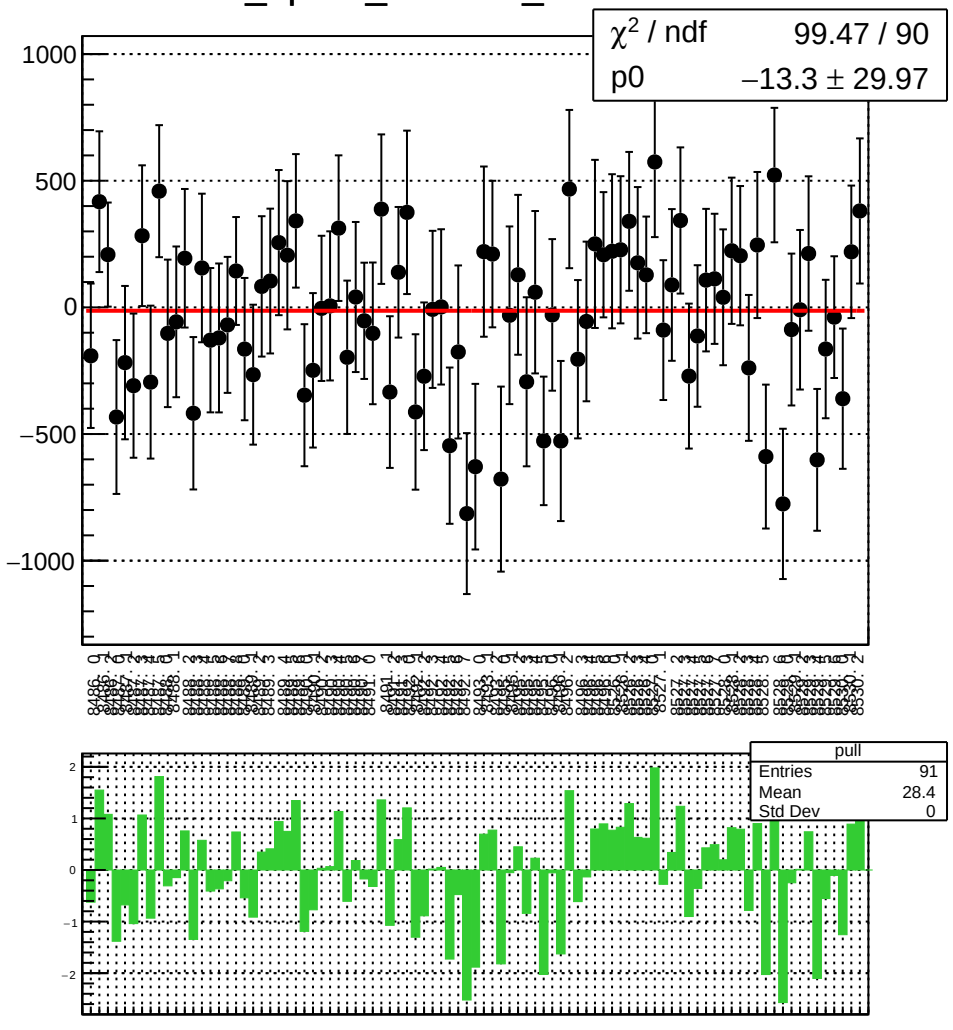

pull1D
Entries 91
Mean −0.02721
Std Dev 1.035
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

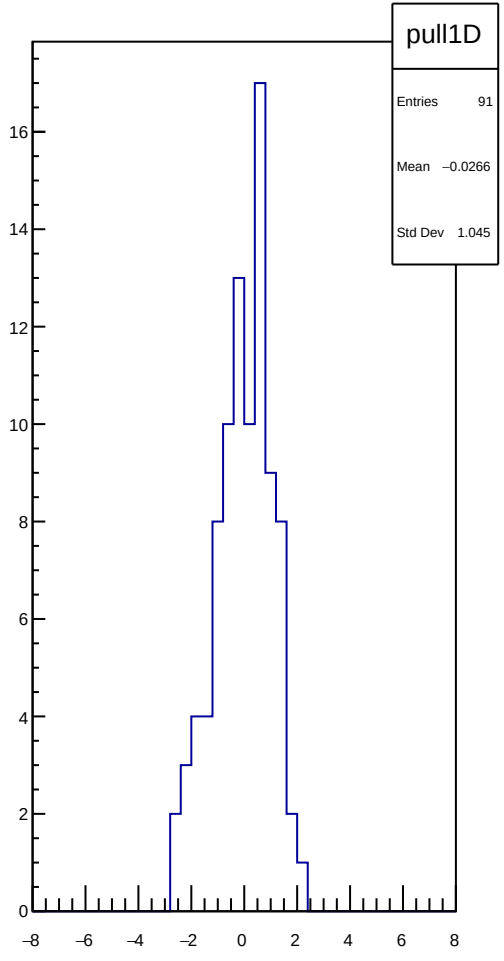

diff_bpmE_rms vs run
χ² / ndf 6098 / 90
p0 3.554e+04 ± 26.92
44000
42000
40000
38000
36000
34000
32000
30000

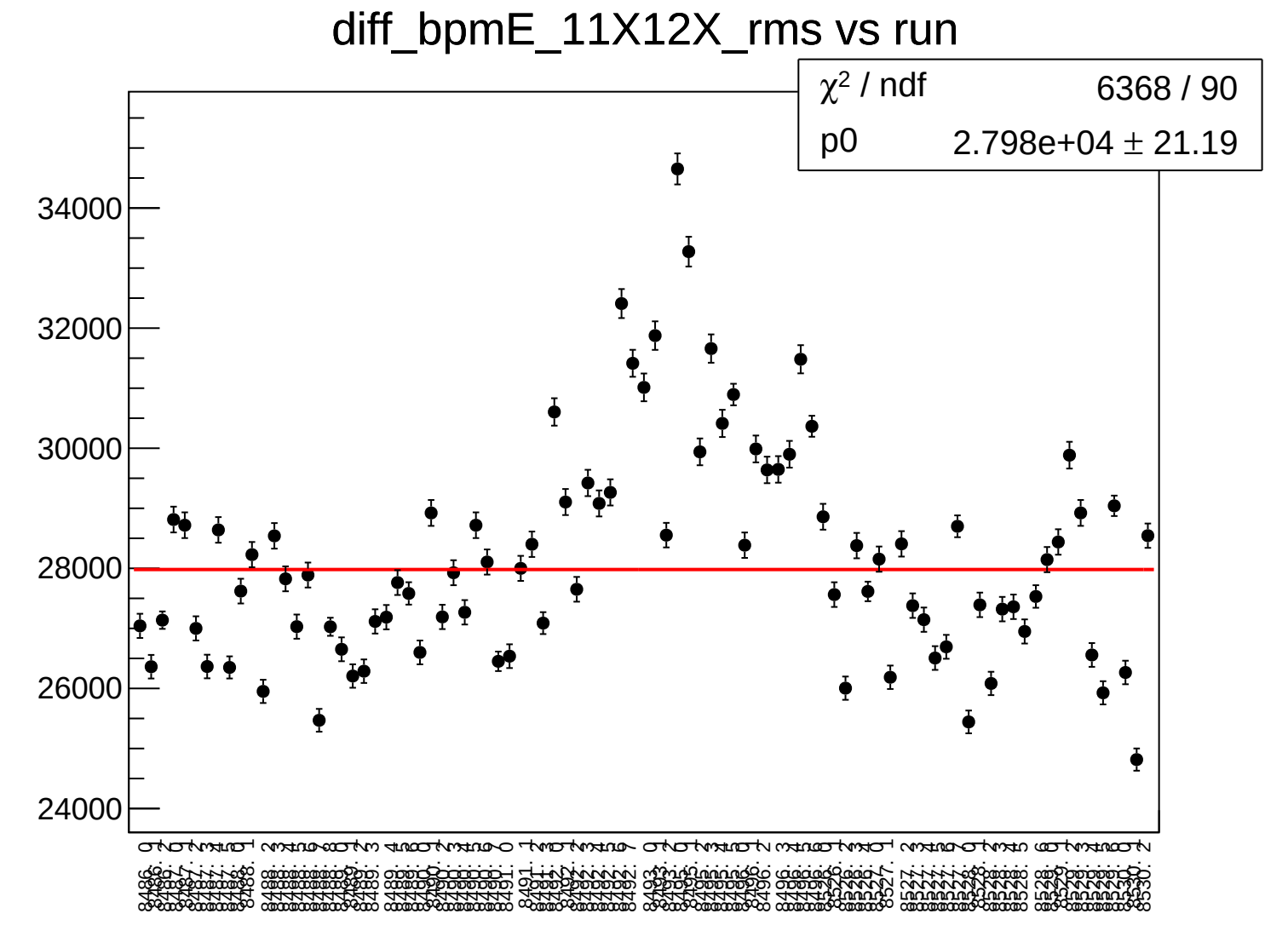

diff_bpmEX_mean vs run
χ² / ndf 97.57 / 90
p0 −10.36 ± 38.06
1000
500
0
−500
−1000
−1500
pull
Entries 91
Mean 35.7
Std Dev 0
2
1
0
−1
−2

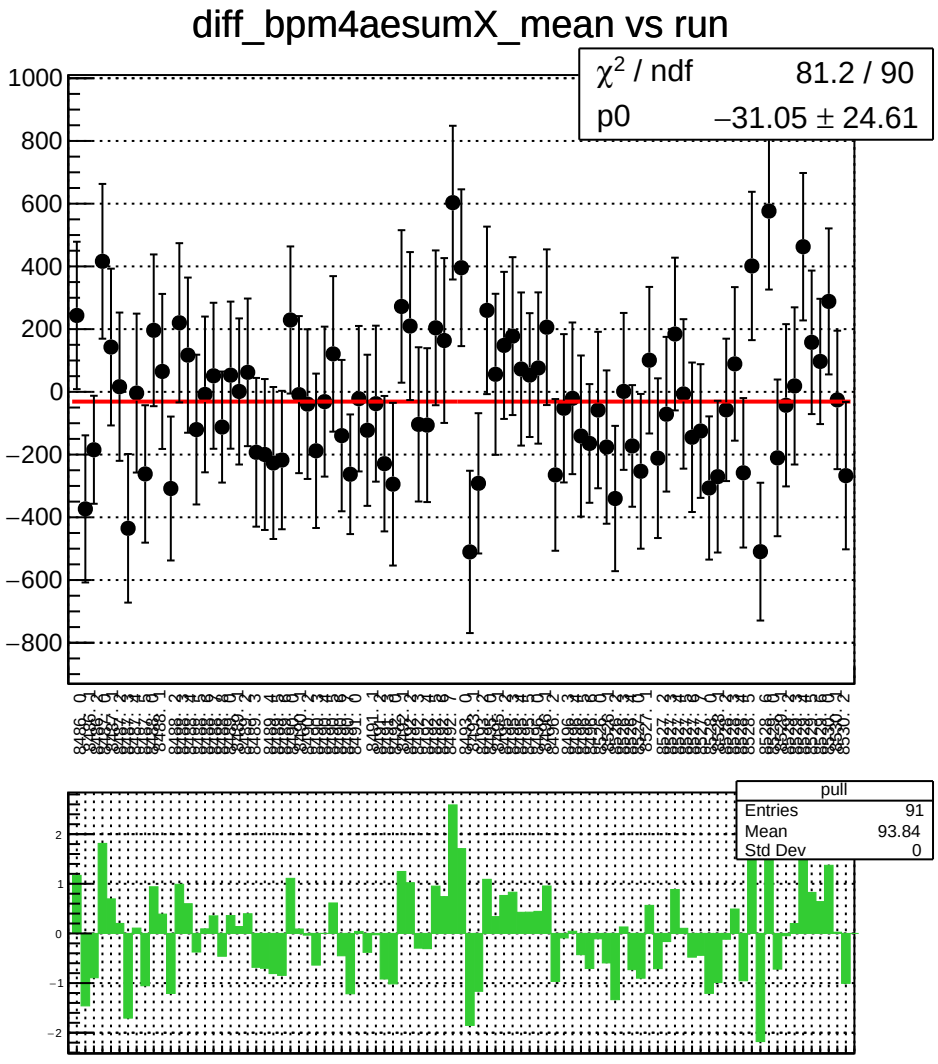

pull1D
Entries 91
Mean −0.02721
Std Dev 1.035
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

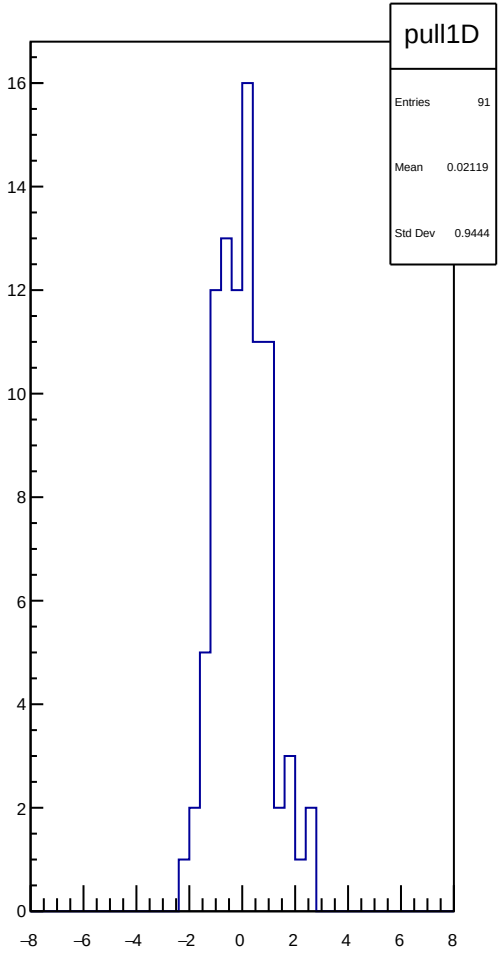

diff_bpmEX_rms vs run
χ² / ndf 6098 / 90
p0 3.554e+04 ± 26.92
44000
42000
40000
38000
36000
34000
32000
30000

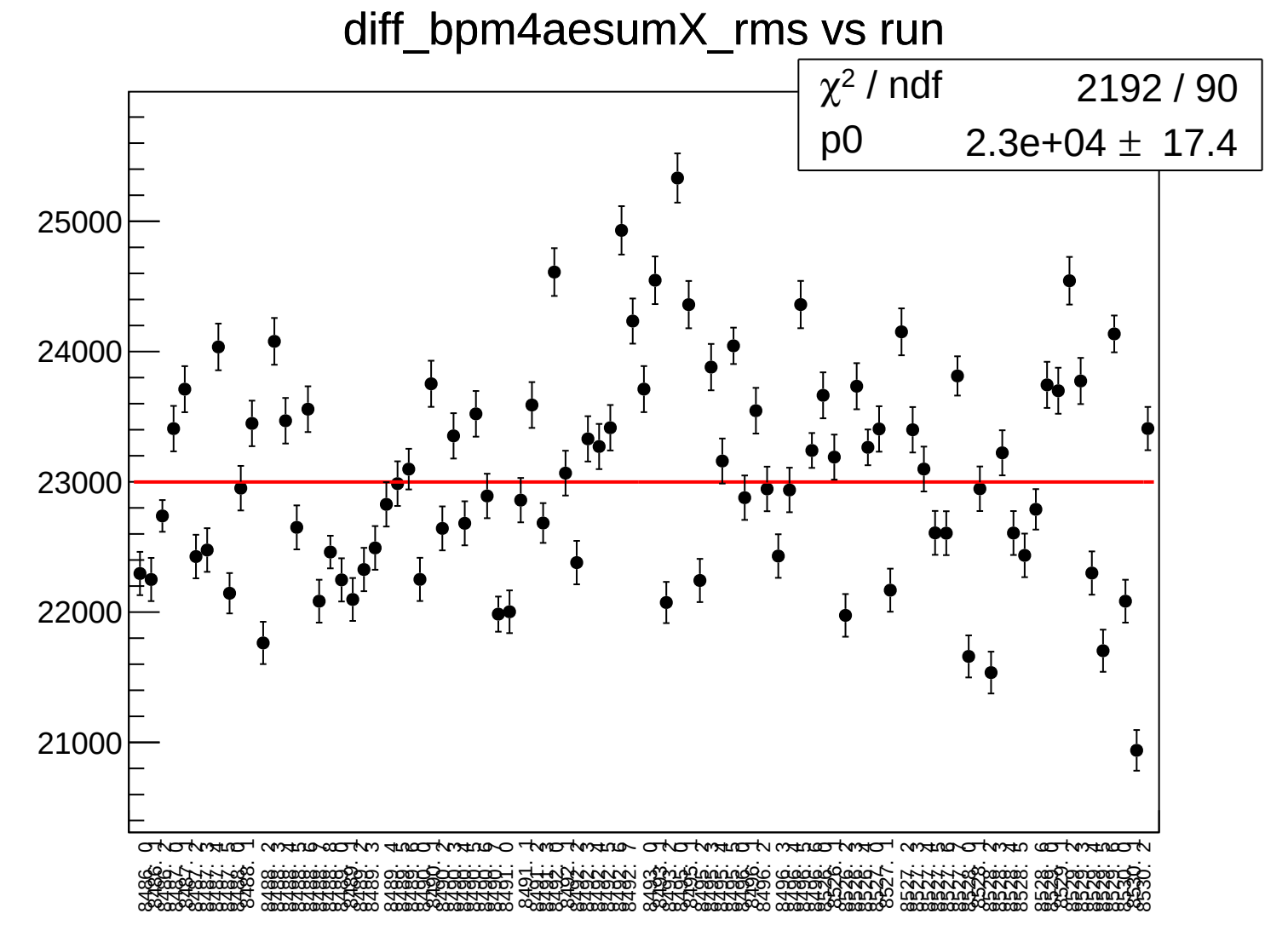

diff_bpmE_11X12X_mean vs run
χ^2 / ndf 99.47 / 90
p0 −13.3 ± 29.97
1000
500
0
−500
−1000
pull
Entries 91
Mean 28.4
Std Dev 0
2
1
0
−1
−2

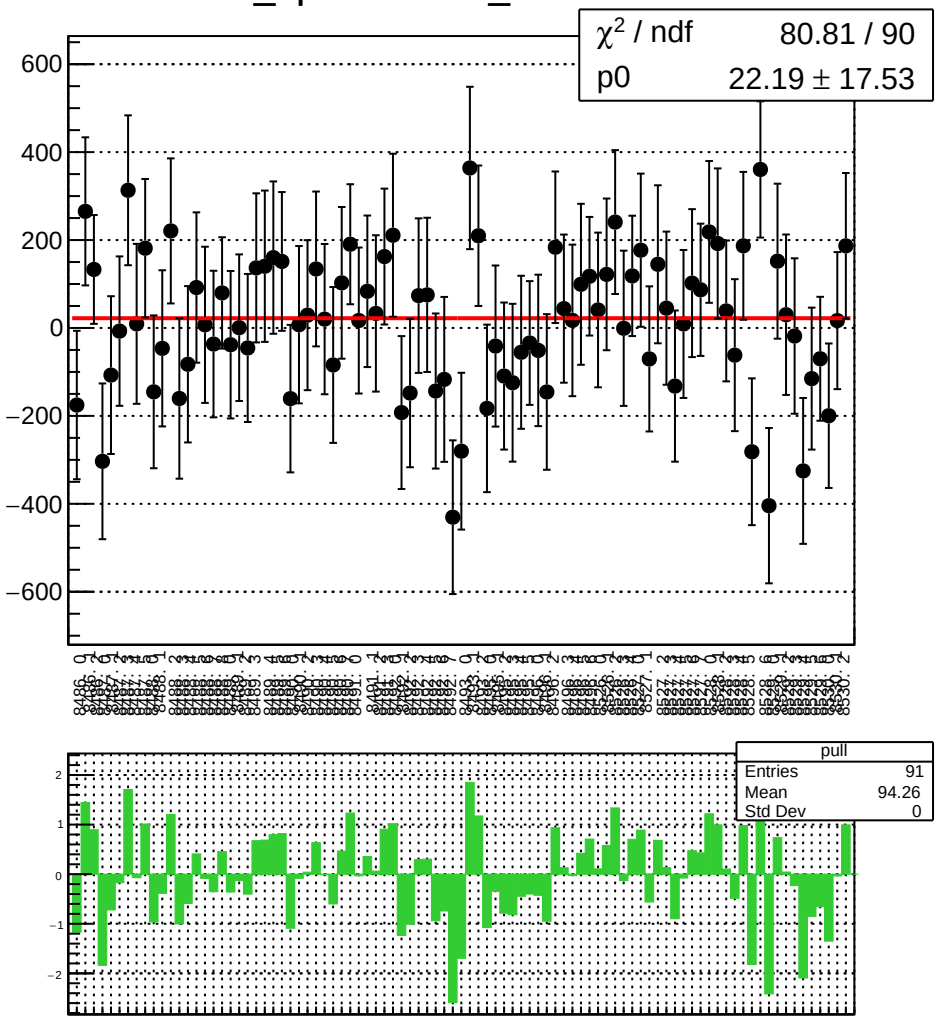

pull1D
Entries 91
Mean −0.0266
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

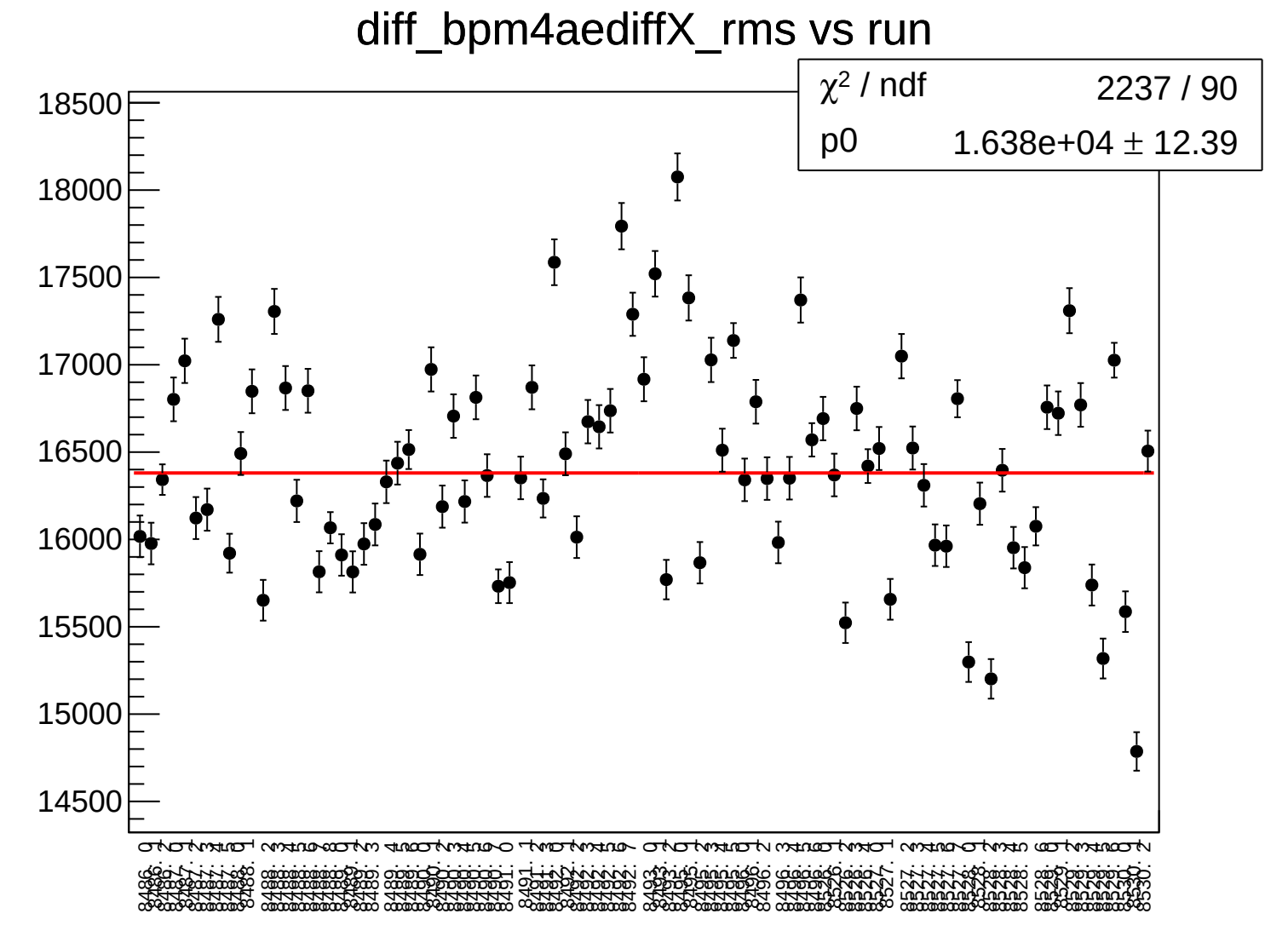

diff_bpmE_11X12X_rms vs run
χ² / ndf 6368 / 90
p0 2.798e+04 ± 21.19
34000
32000
30000
28000
26000
24000

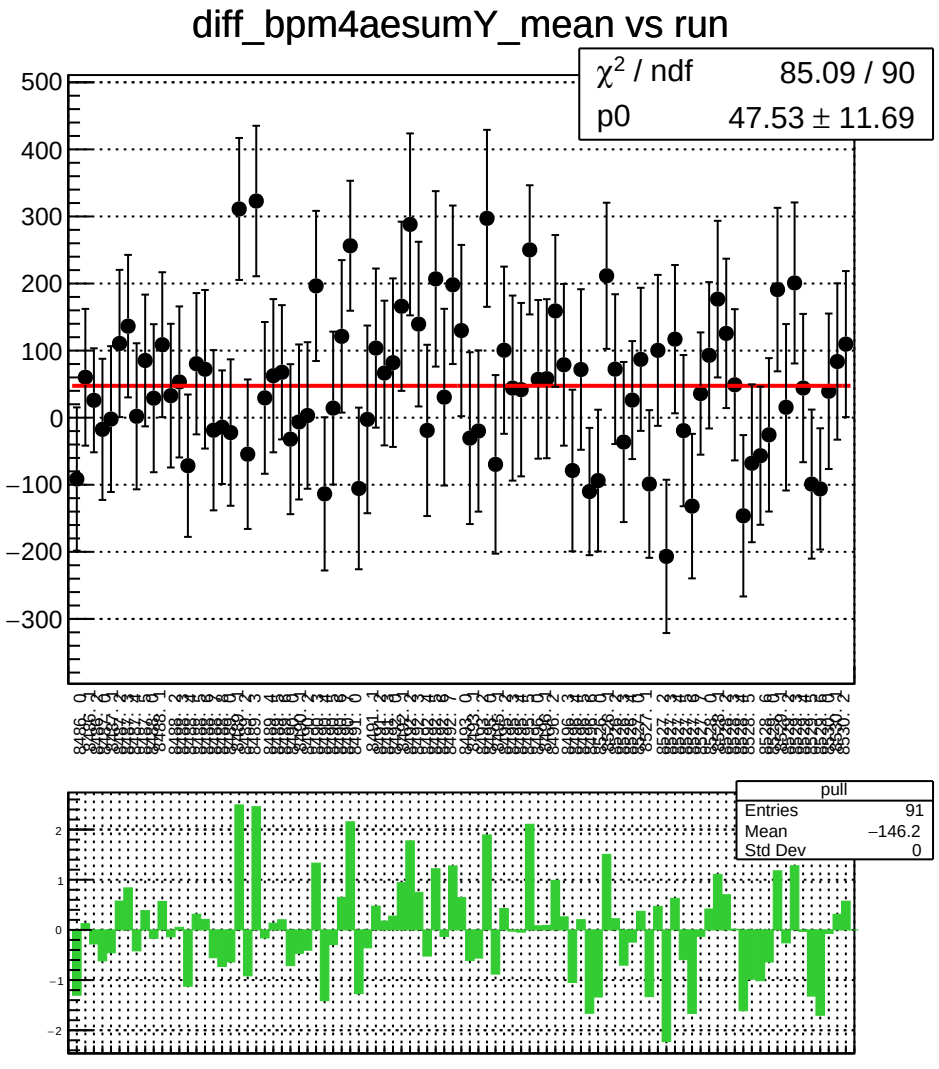

diff_bpm4aesumX_mean vs run
χ² / ndf 81.2 / 90
p0 −31.05 ± 24.61
pull
Entries 91
Mean 93.84
Std Dev 0

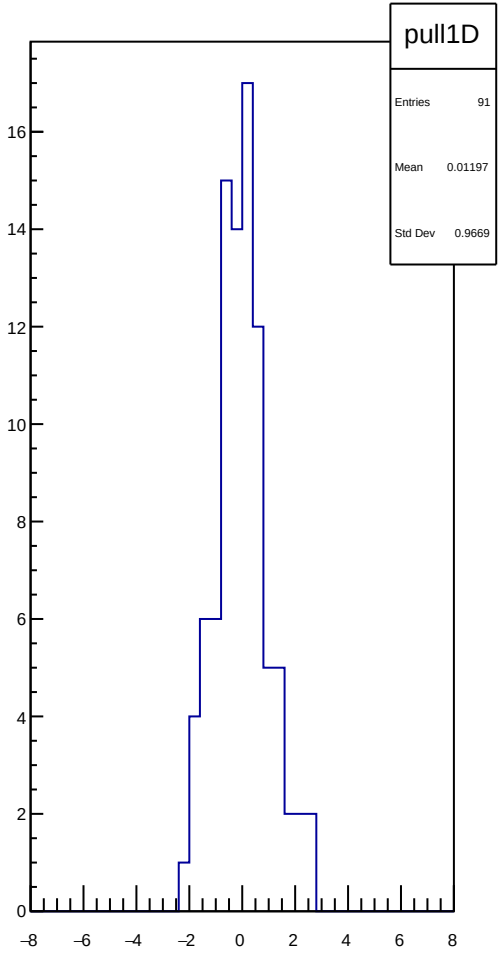

pull1D
Entries 91
Mean 0.02119
Std Dev 0.9444

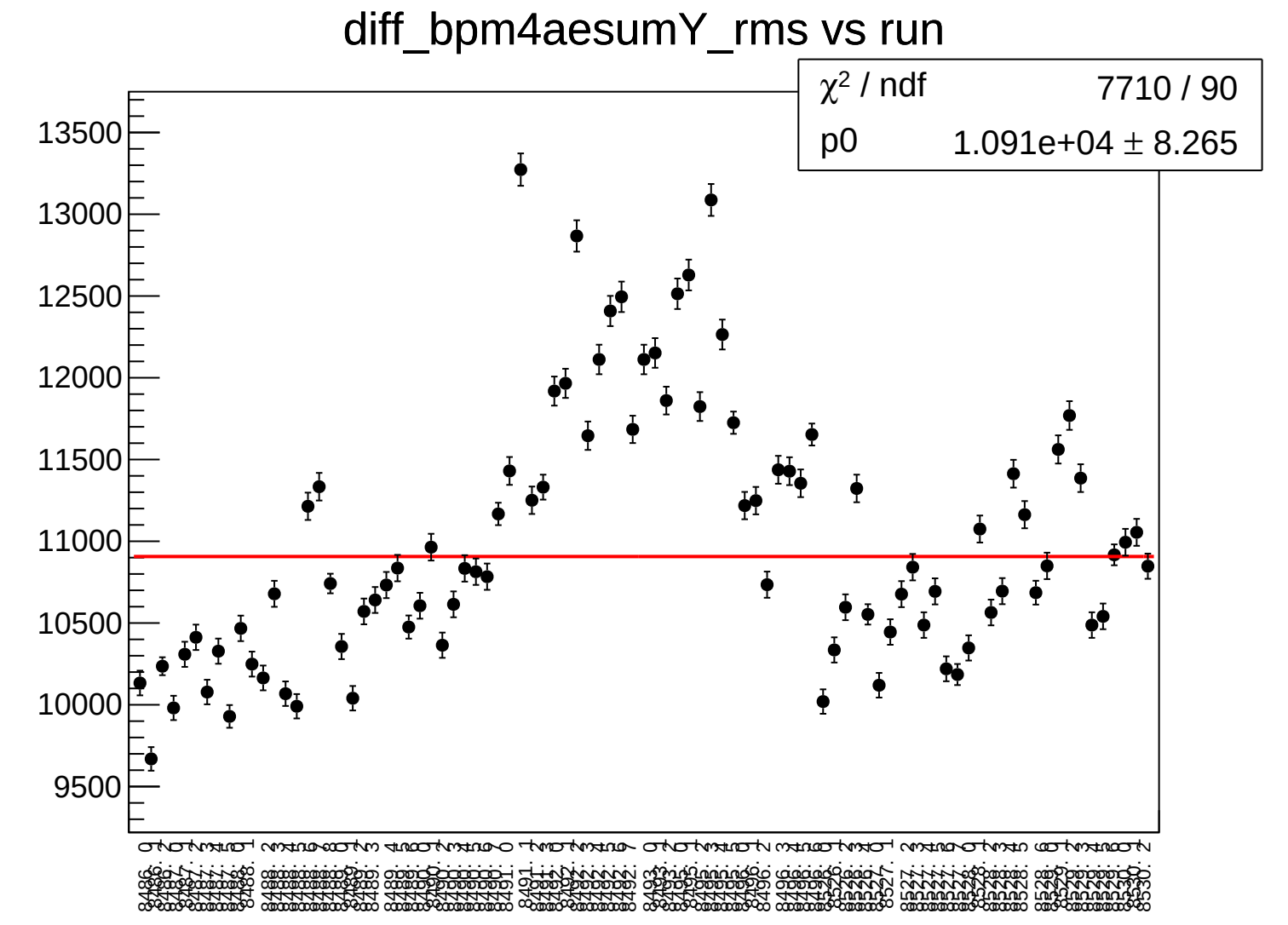

diff_bpm4aesumX_rms vs run
χ² / ndf 2192 / 90
p0 2.3e+04 ± 17.4
25000
24000
23000
22000
21000

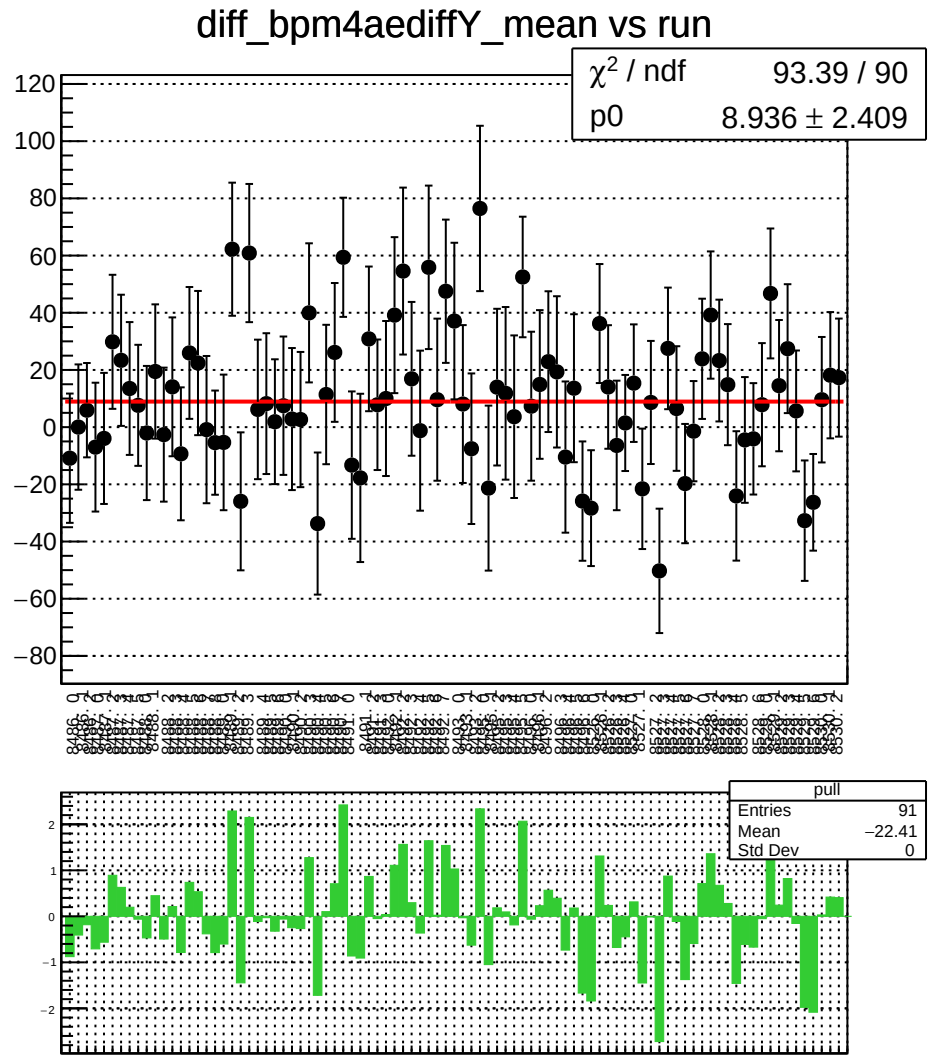

diff_bpm4aediffX_mean vs run
χ² / ndf 80.81 / 90
p0 22.19 ± 17.53
pull
Entries 91
Mean 94.26
Std Dev 0
pull1D
Entries 91
Mean −0.02111
Std Dev 0.9421

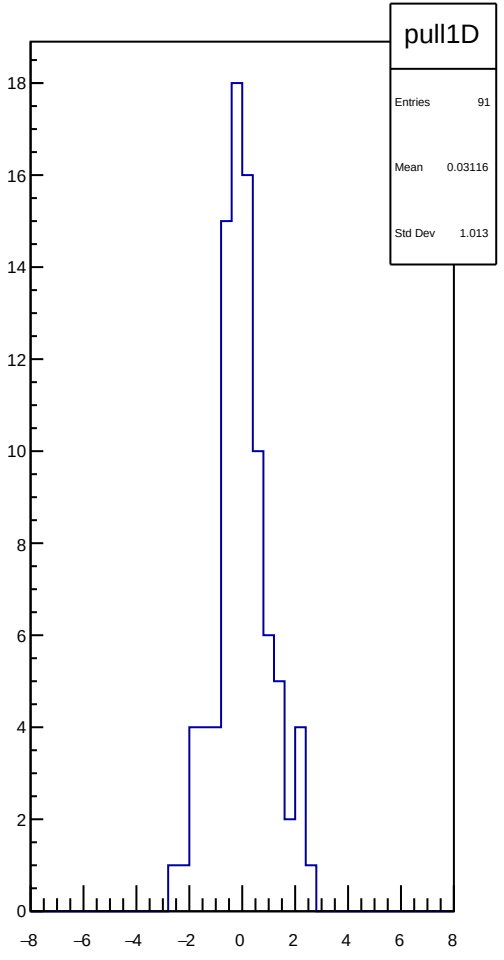

diff_bpm4aediffX_rms vs run
χ² / ndf 2237 / 90
p0 1.638e+04 ± 12.39
18500
18000
17500
17000
16500
16000
15500
15000
14500

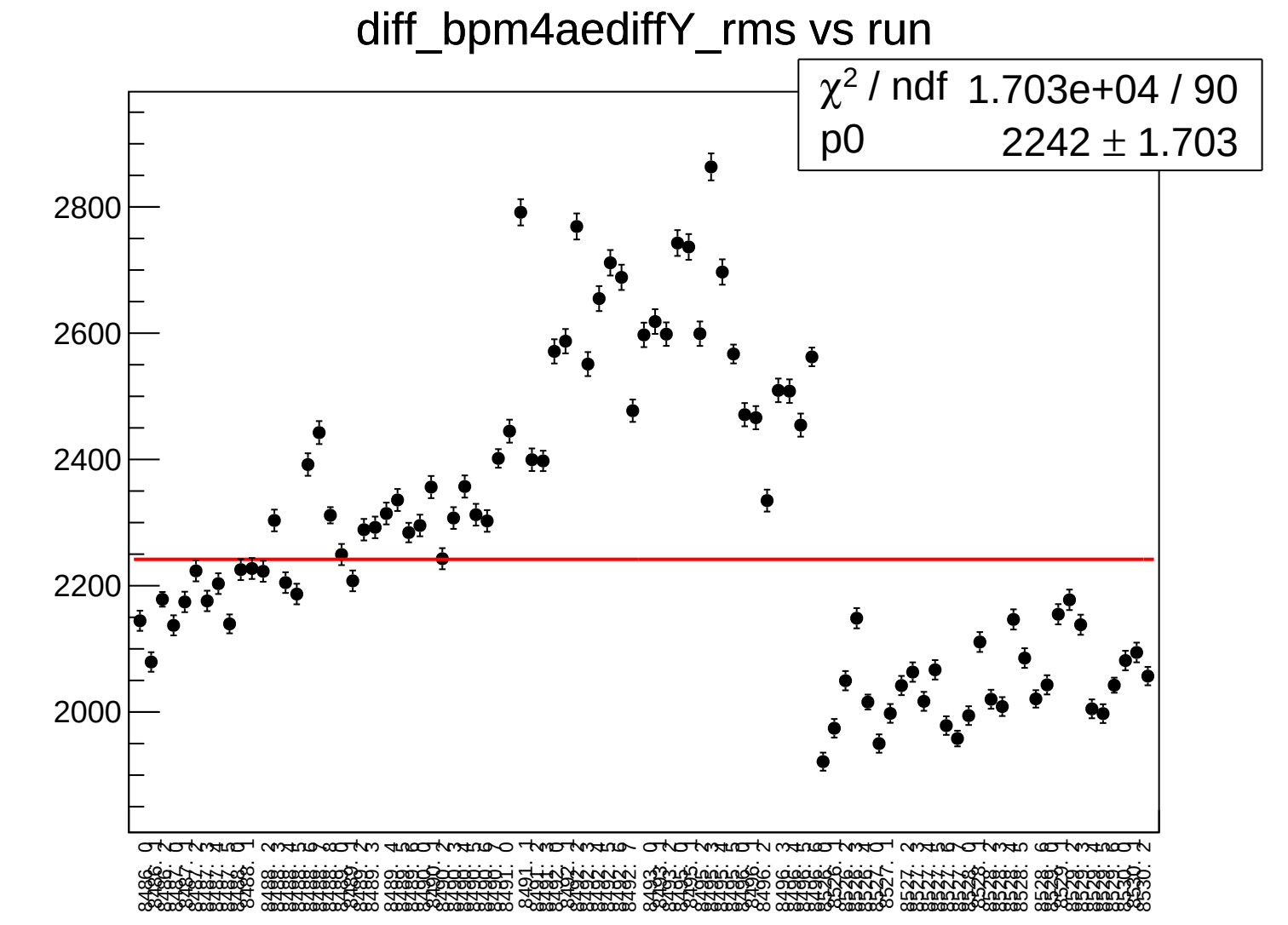

diff_bpm4aesumY_mean vs run
χ² / ndf 85.09 / 90
p0 47.53 ± 11.69
pull
Entries 91
Mean −146.2
Std Dev 0

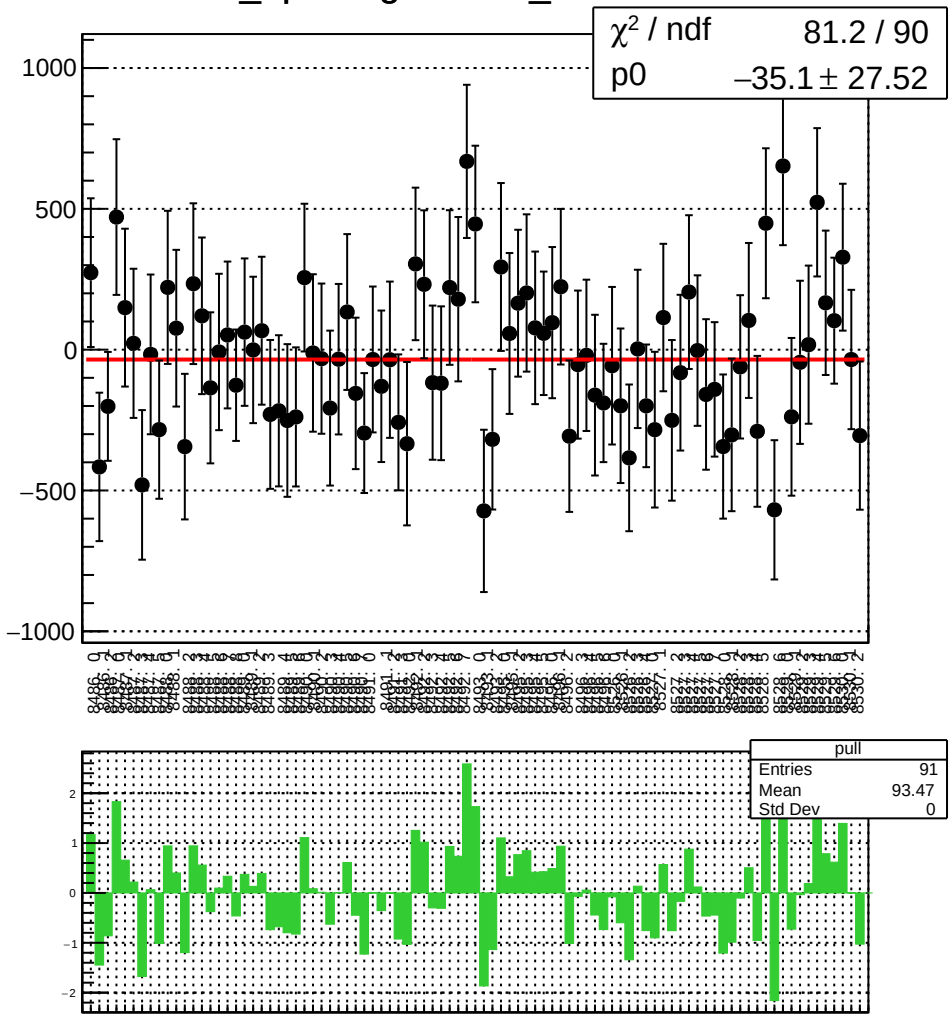

pull1D
Entries 91
Mean 0.01197
Std Dev 0.9669

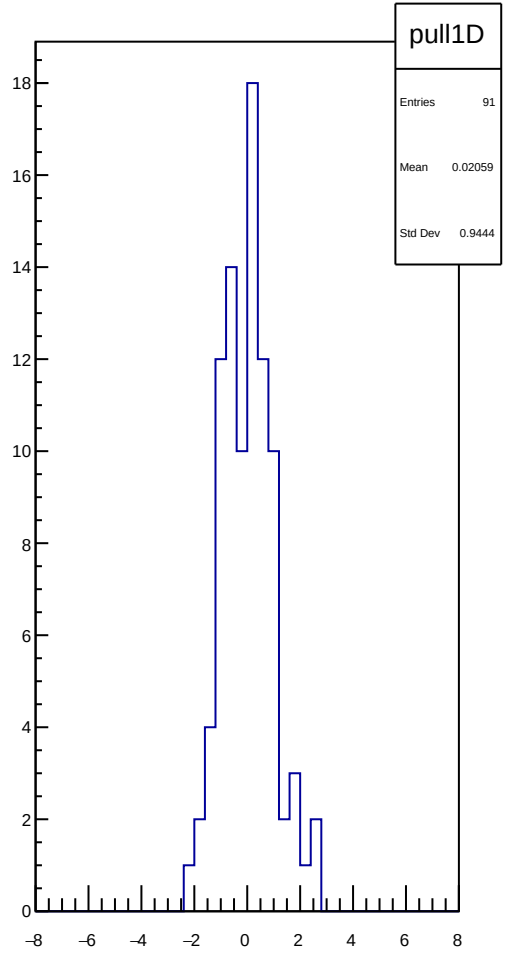

diff_bpm4aesumY_rms vs run
χ² / ndf 7710 / 90
p0 1.091e+04 ± 8.265
13500
13000
12500
12000
11500
11000
10500
10000
9500

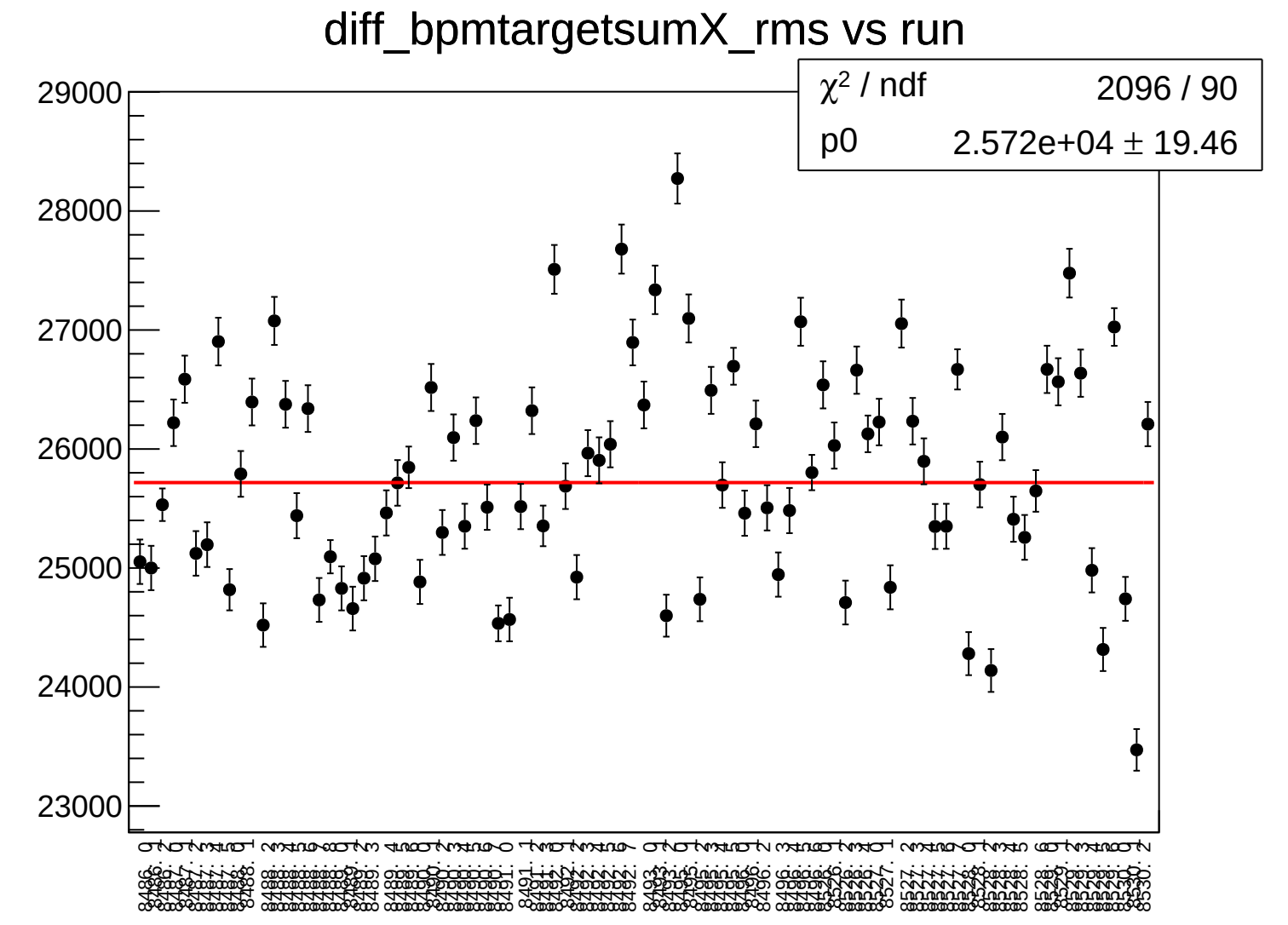

diff_bpm4aediffY_mean vs run
χ^2 / ndf 93.39 / 90
p0 8.936 ± 2.409
pull
Entries 91
Mean −22.41
Std Dev 0

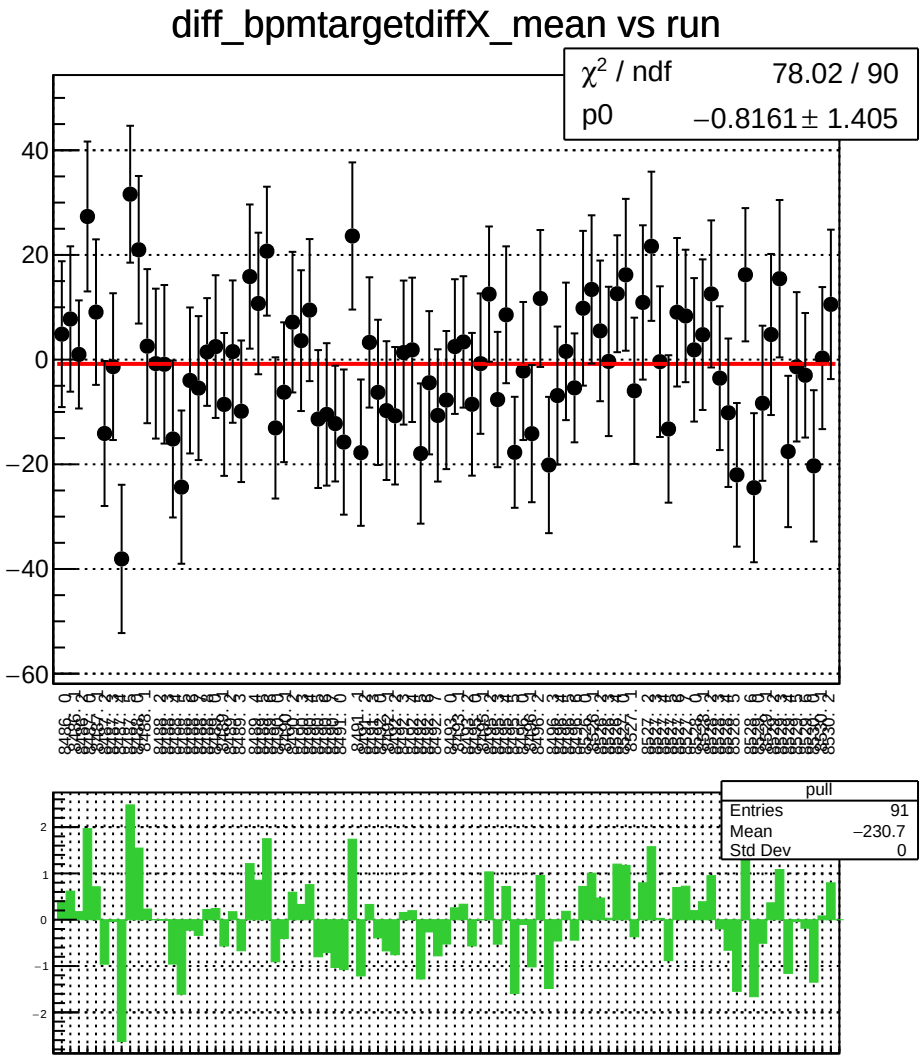

pull1D
Entries 91
Mean 0.03116
Std Dev 1.013

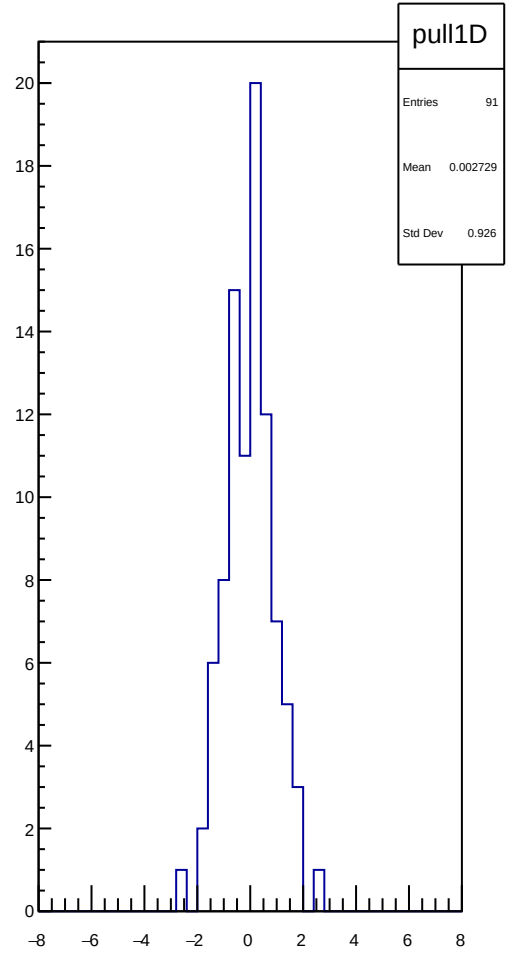

diff_bpm4aediffY_rms vs run
χ² / ndf 1.703e+04 / 90
p0 2242 ± 1.703
2800
2600
2400
2200
2000

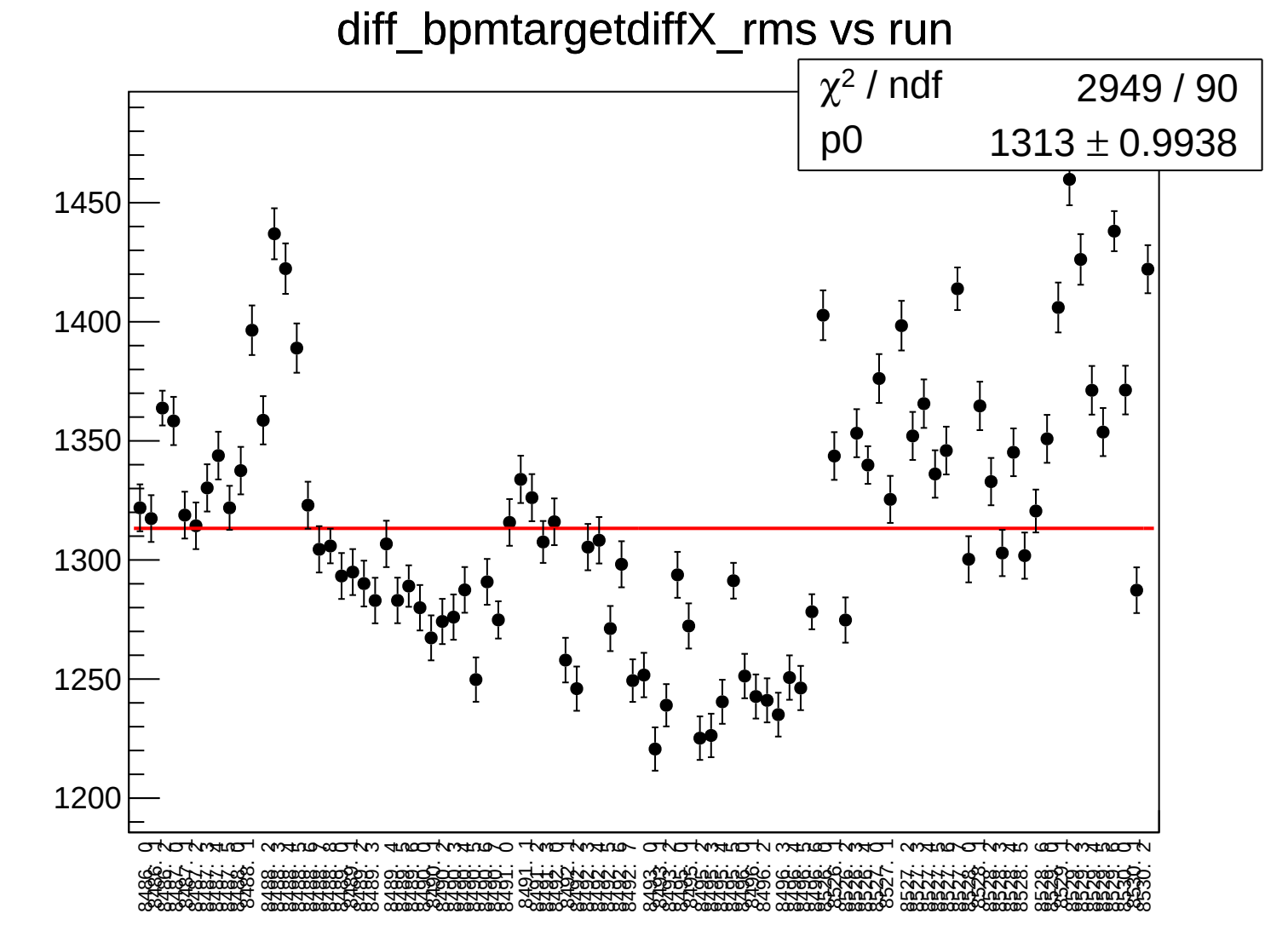

diff_bpmtargetsumX_mean vs run
χ² / ndf 81.2 / 90
p0 −35.1 ± 27.52
1000
500
0
−500
−1000
pull
Entries 91
Mean 93.47
Std Dev 0
2
1
0
−1
−2

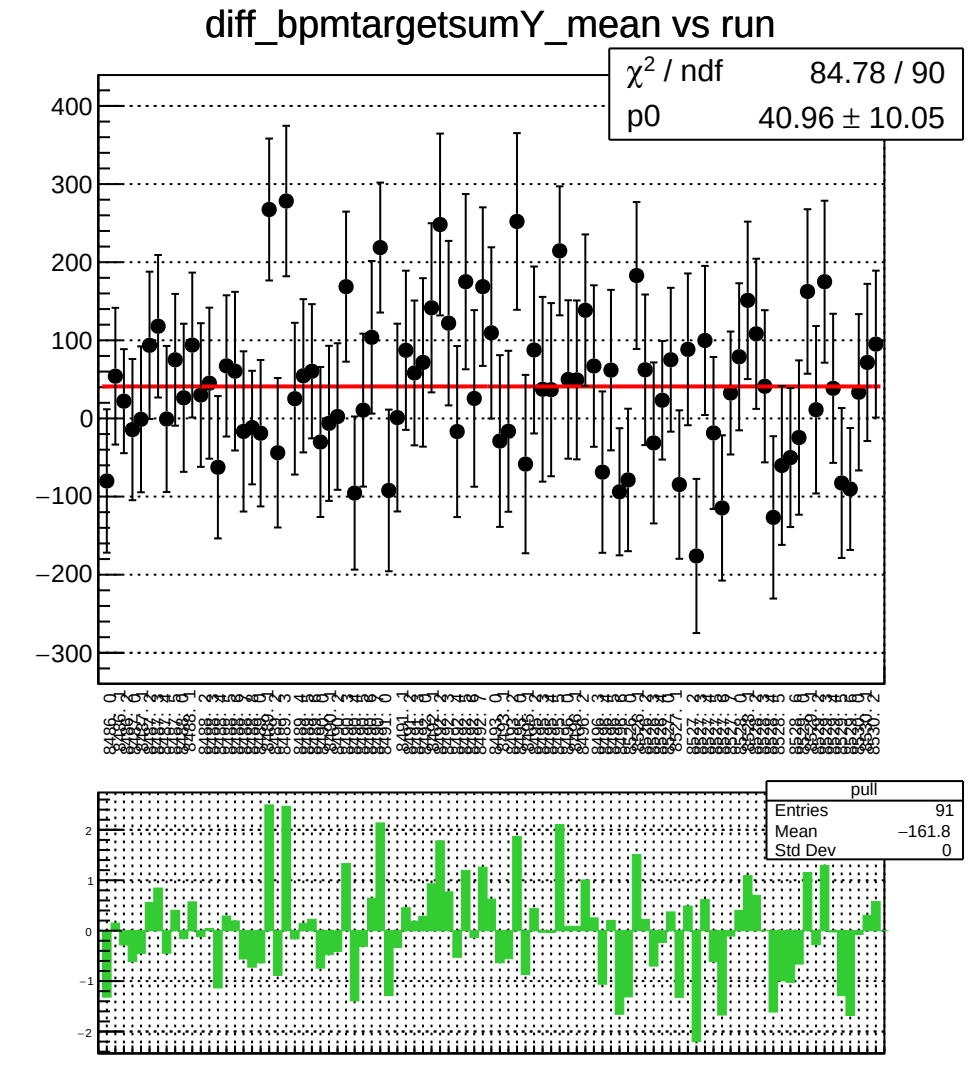

pull1D
Entries 91
Mean 0.02059
Std Dev 0.9444
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

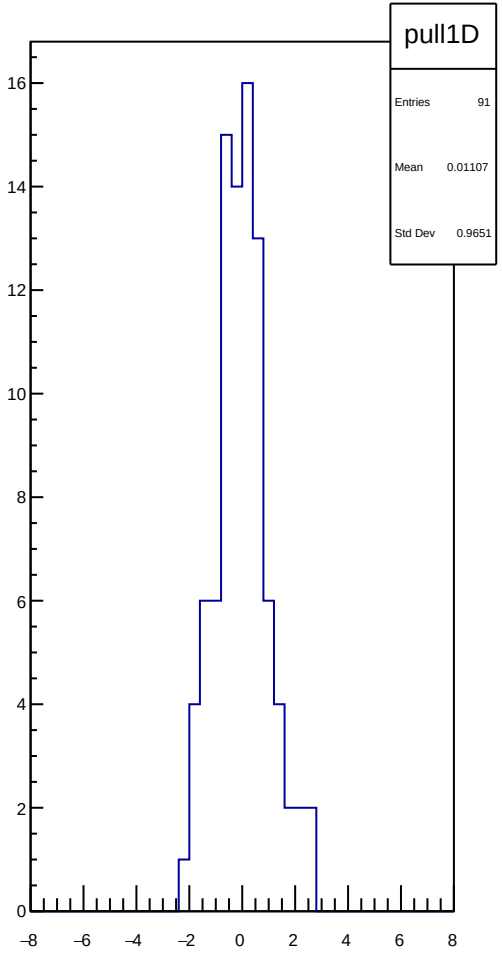

diff_bpmtargetsumX_rms vs run
χ² / ndf 2096 / 90
p0 2.572e+04 ± 19.46
29000
28000
27000
26000
25000
24000
23000

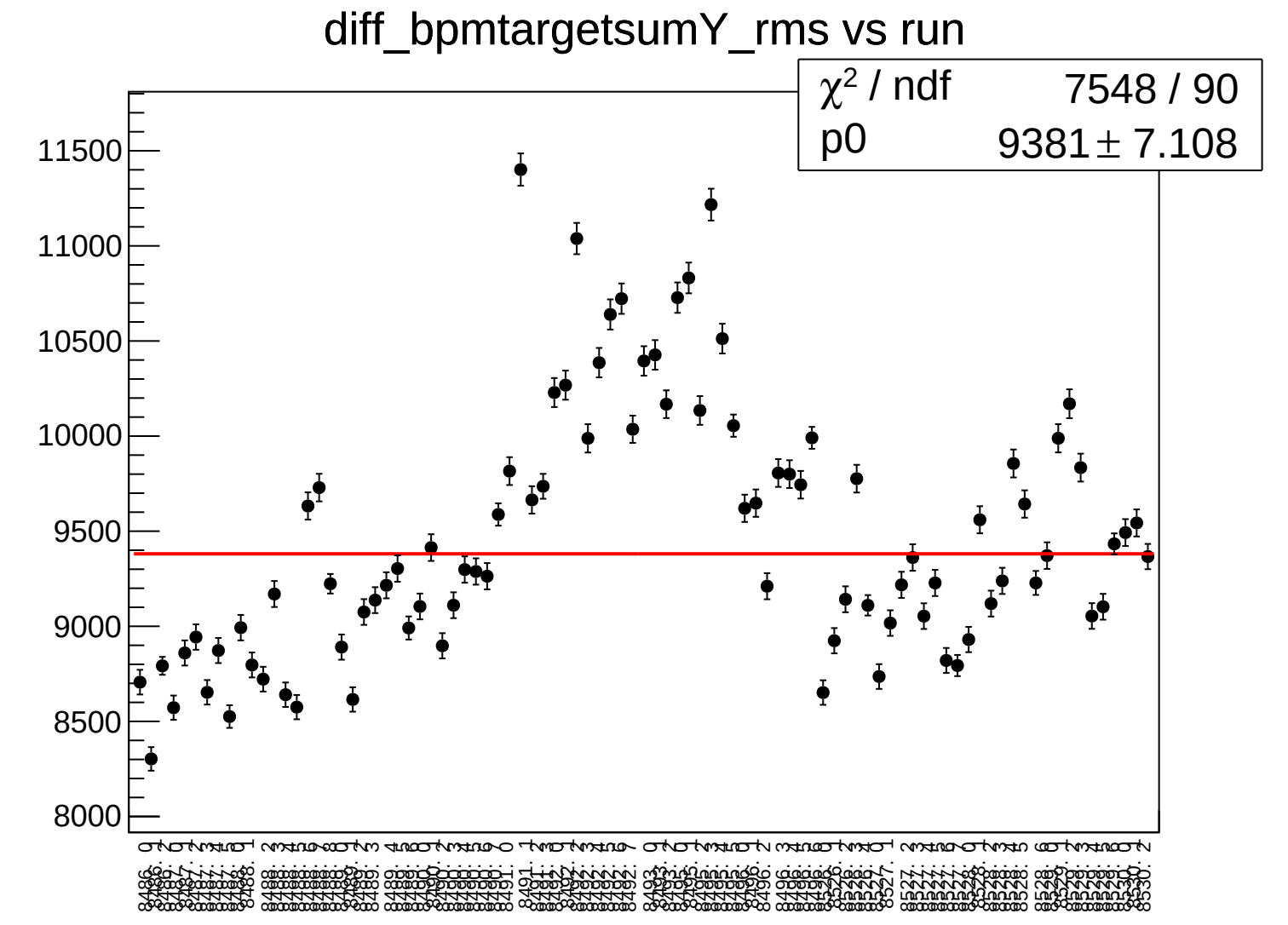

diff_bpmtargetdiffX_mean vs run
χ² / ndf 78.02 / 90
p0 −0.8161 ± 1.405
pull
Entries 91
Mean −230.7
Std Dev 0

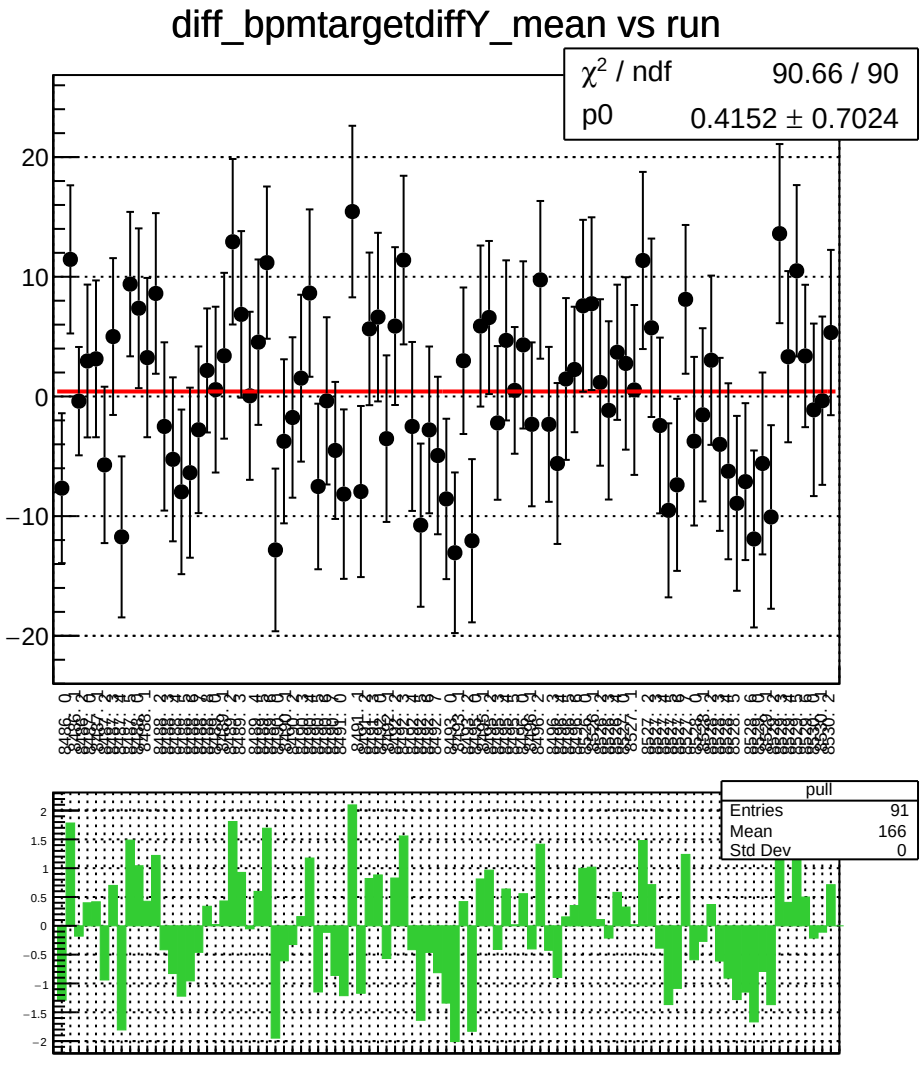

pull1D
Entries 91
Mean 0.002729
Std Dev 0.926

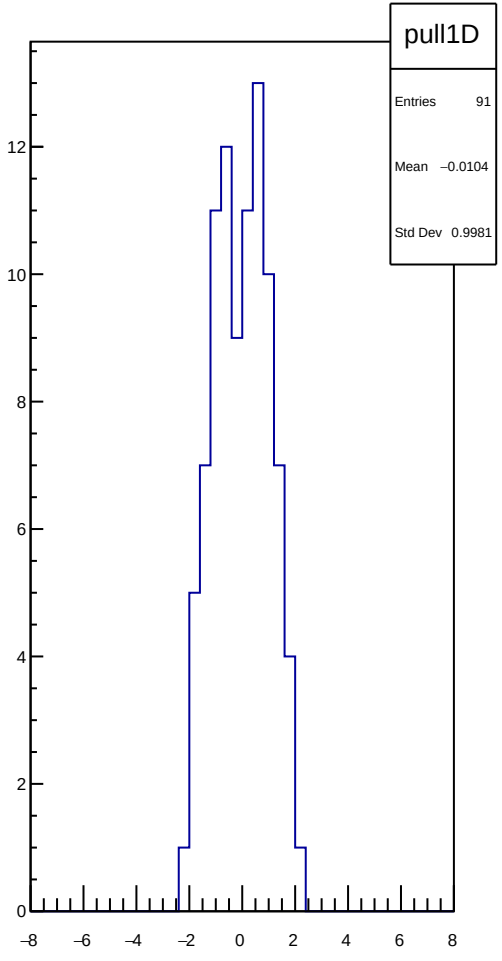

diff_bpmtargetdiffX_rms vs run
χ² / ndf 2949 / 90
p0 1313 ± 0.9938
1450
1400
1350
1300
1250
1200

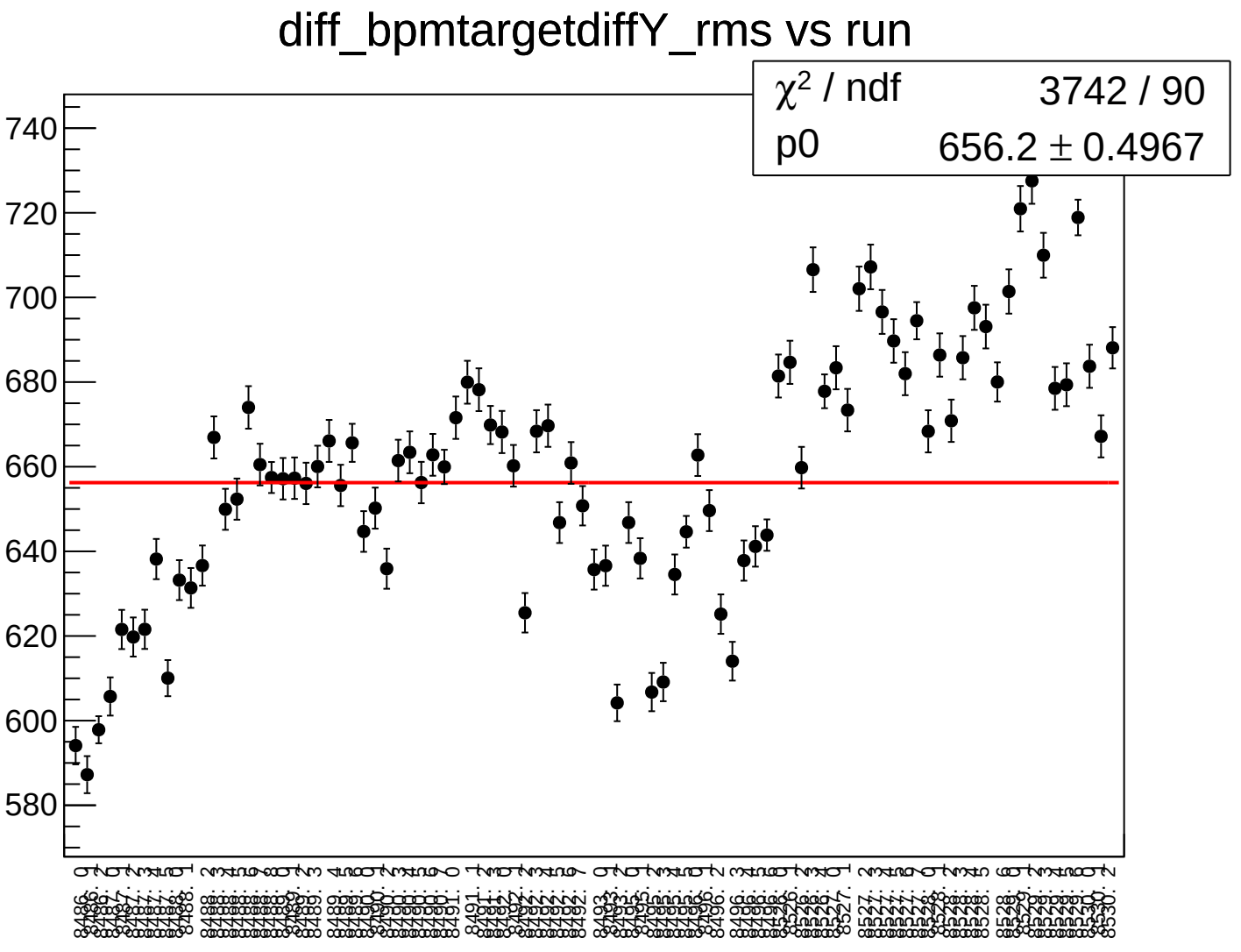

diff_bpmtargetsumY_mean vs run
χ² / ndf 84.78 / 90
p0 40.96 ± 10.05
pull
Entries 91
Mean −161.8
Std Dev 0

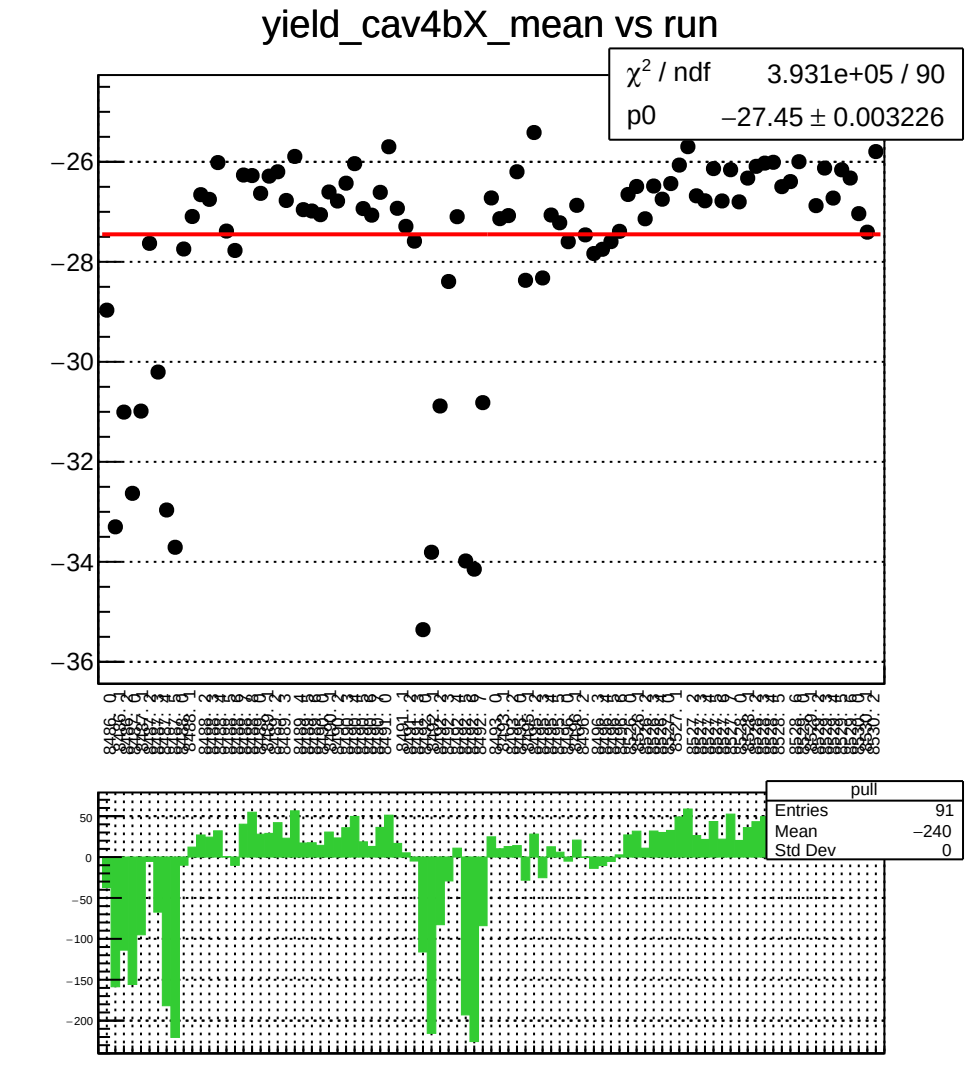

pull1D
Entries 91
Mean 0.01107
Std Dev 0.9651

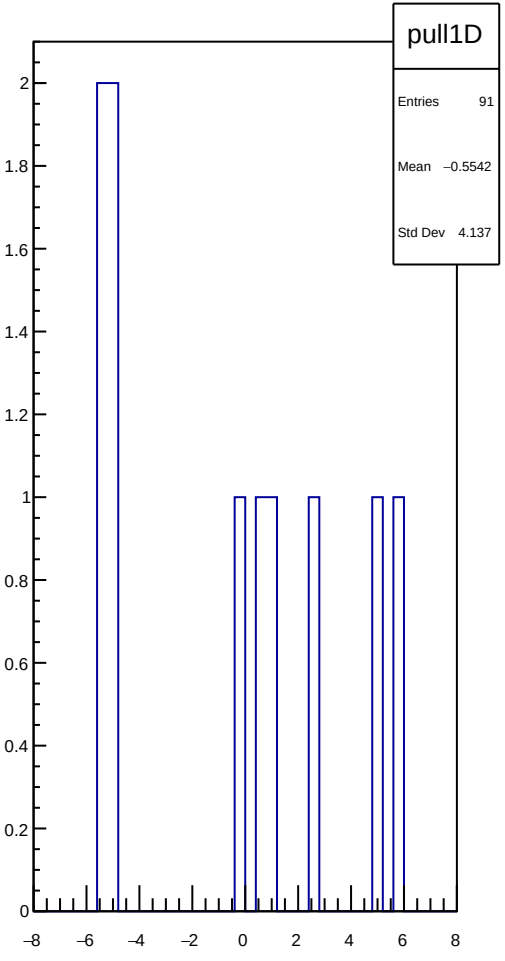

diff_bpmtargetsumY_rms vs run
χ² / ndf 7548 / 90
p0 9381 ± 7.108
11500
11000
10500
10000
9500
9000
8500
8000

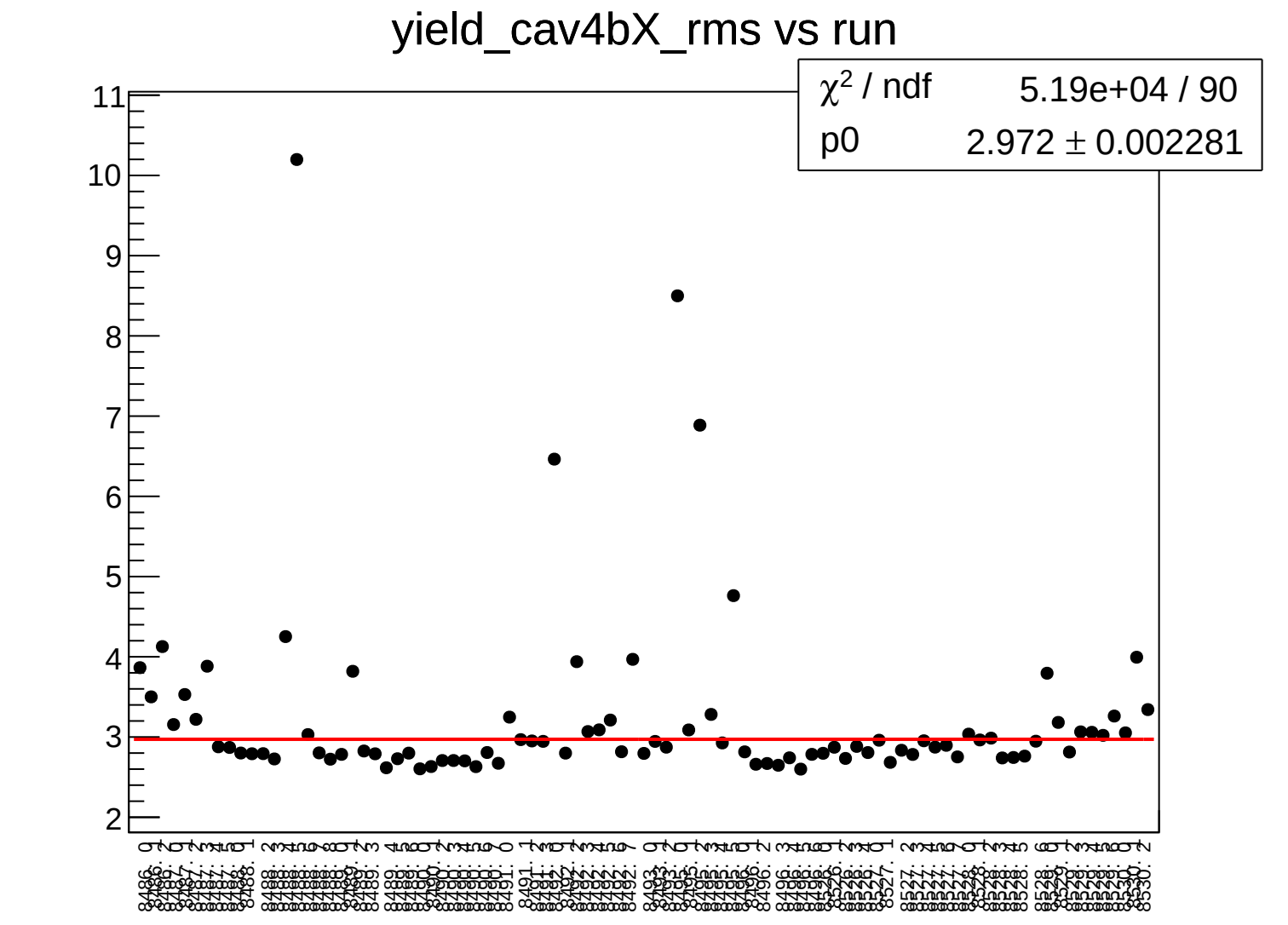

diff_bpmtargetdiffY_mean vs run
χ² / ndf 90.66 / 90
p0 0.4152 ± 0.7024
pull
Entries 91
Mean 166
Std Dev 0

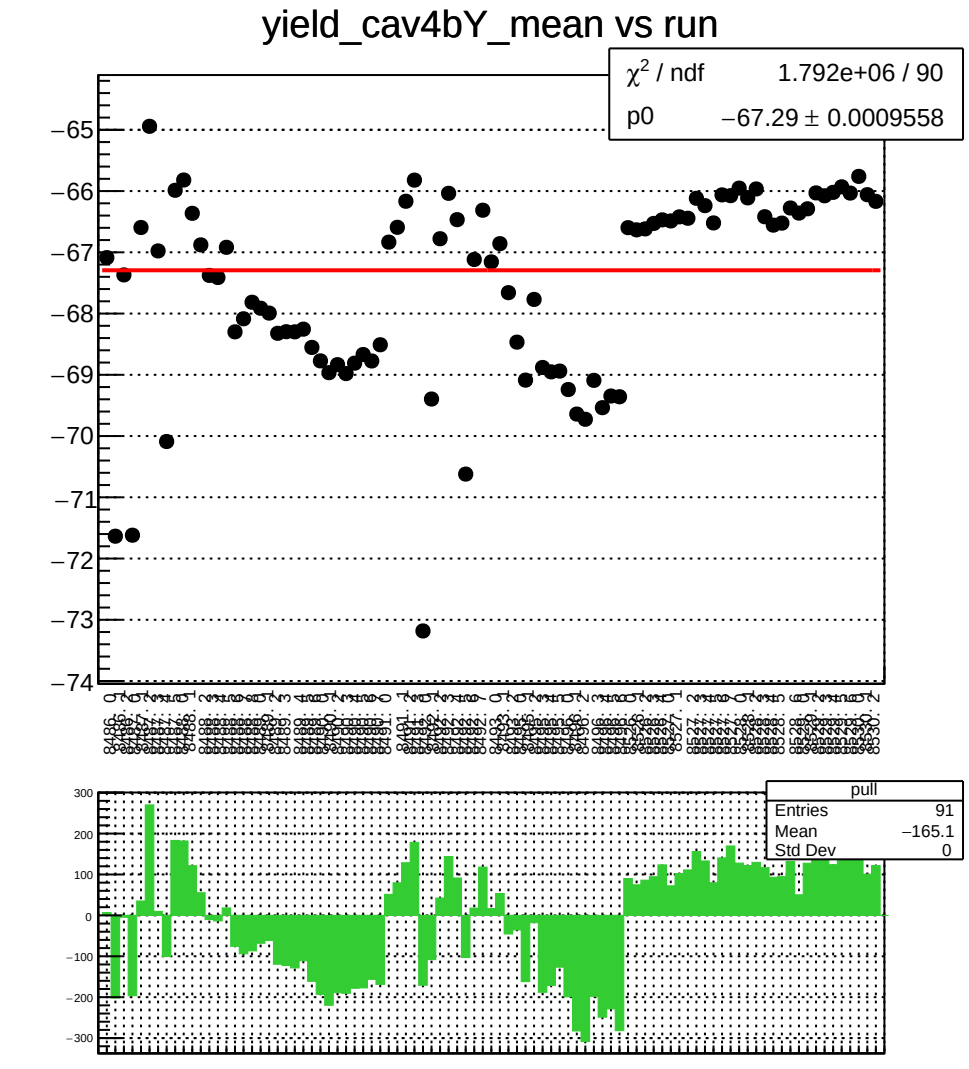

pull1D
Entries 91
Mean −0.0104
Std Dev 0.9981

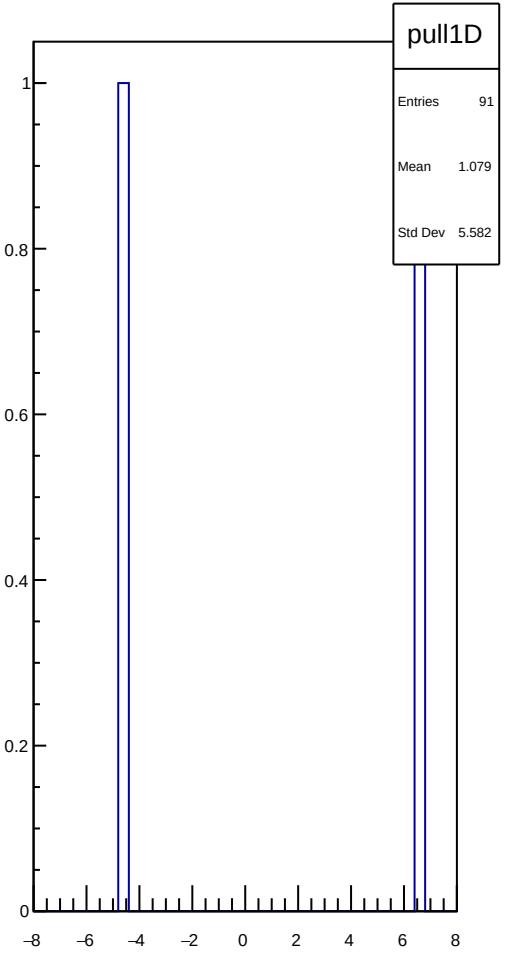

diff_bpmtargetdiffY_rms vs run
χ² / ndf 3742 / 90
p0 656.2 ± 0.4967
740
720
700
680
660
640
620
600
580

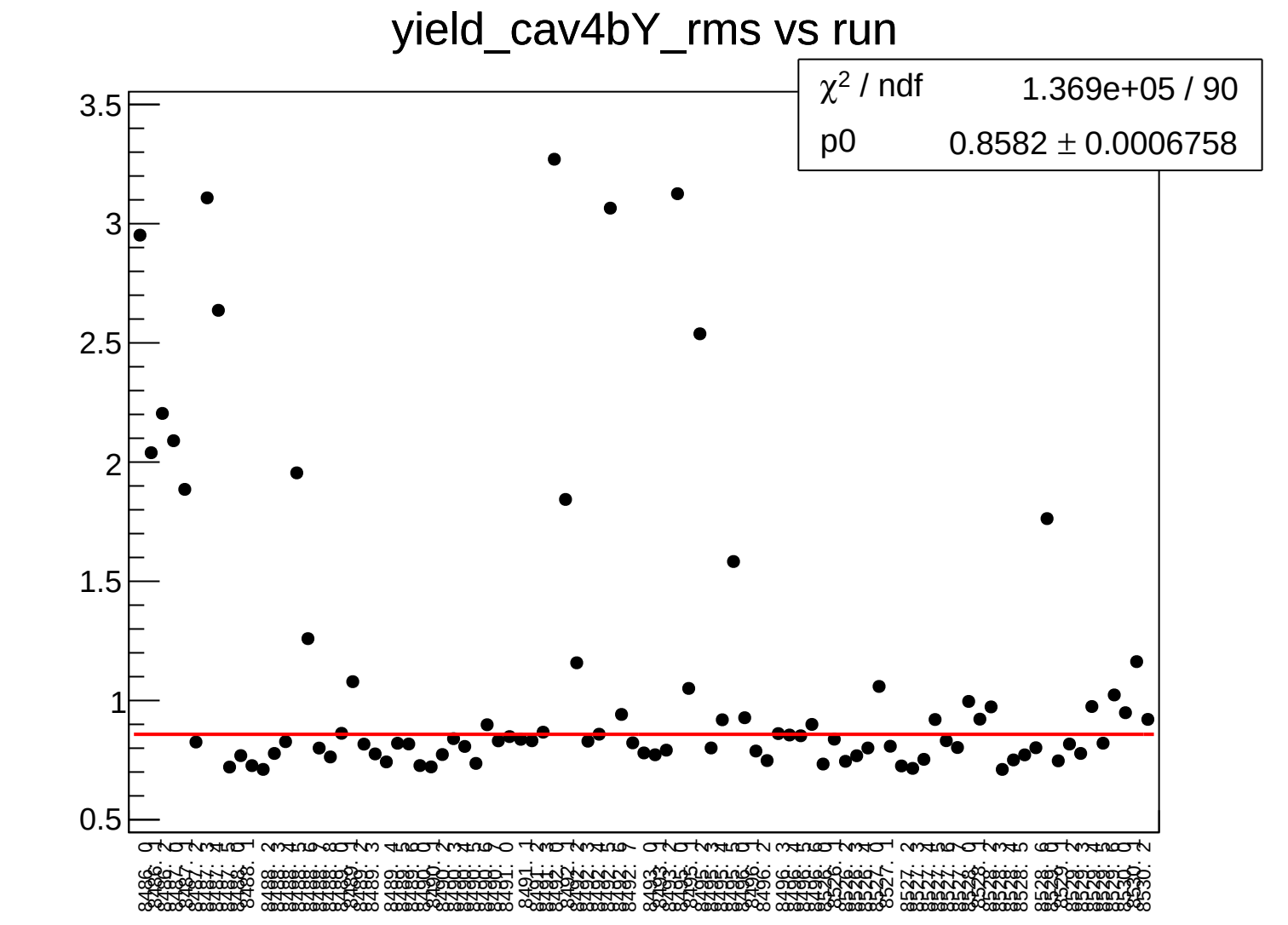

yield_cav4bX_mean vs run
χ² / ndf 3.931e+05 / 90
p0 −27.45 ± 0.003226
−26
−28
−30
−32
−34
−36
pull
Entries 91
Mean −240
Std Dev 0
50
0
−50
−100
−150
−200

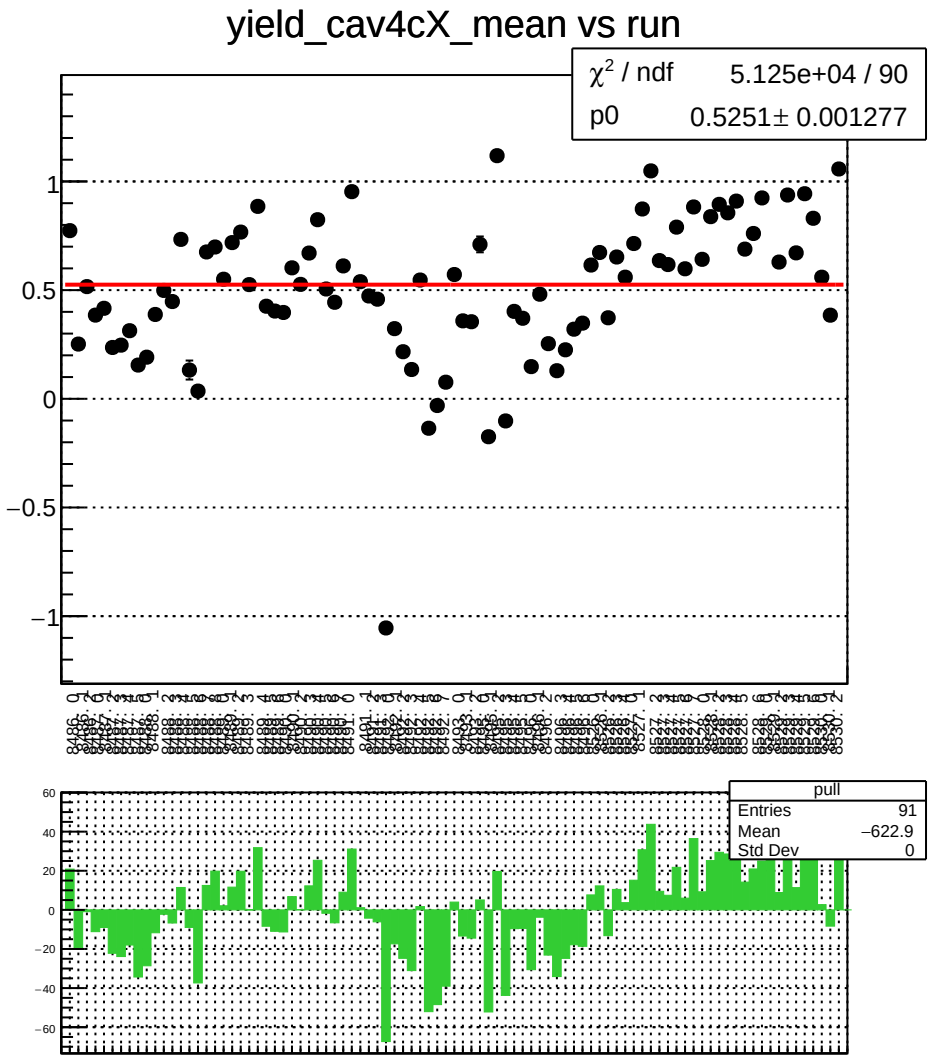

pull1D
Entries 91
Mean −0.5542
Std Dev 4.137
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

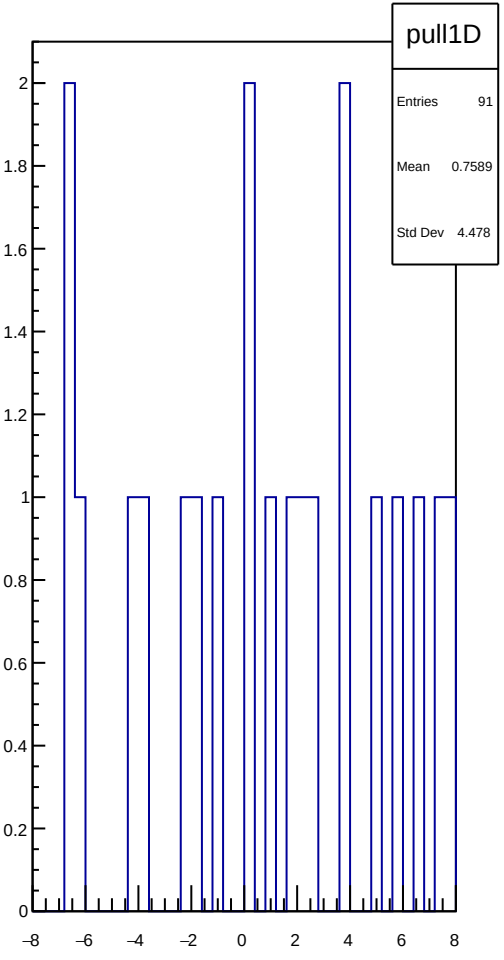

yield_cav4bX_rms vs run
χ^2 / ndf 5.19e+04 / 90
p0 2.972 ± 0.002281
11
10
9
8
7
6
5
4
3
2

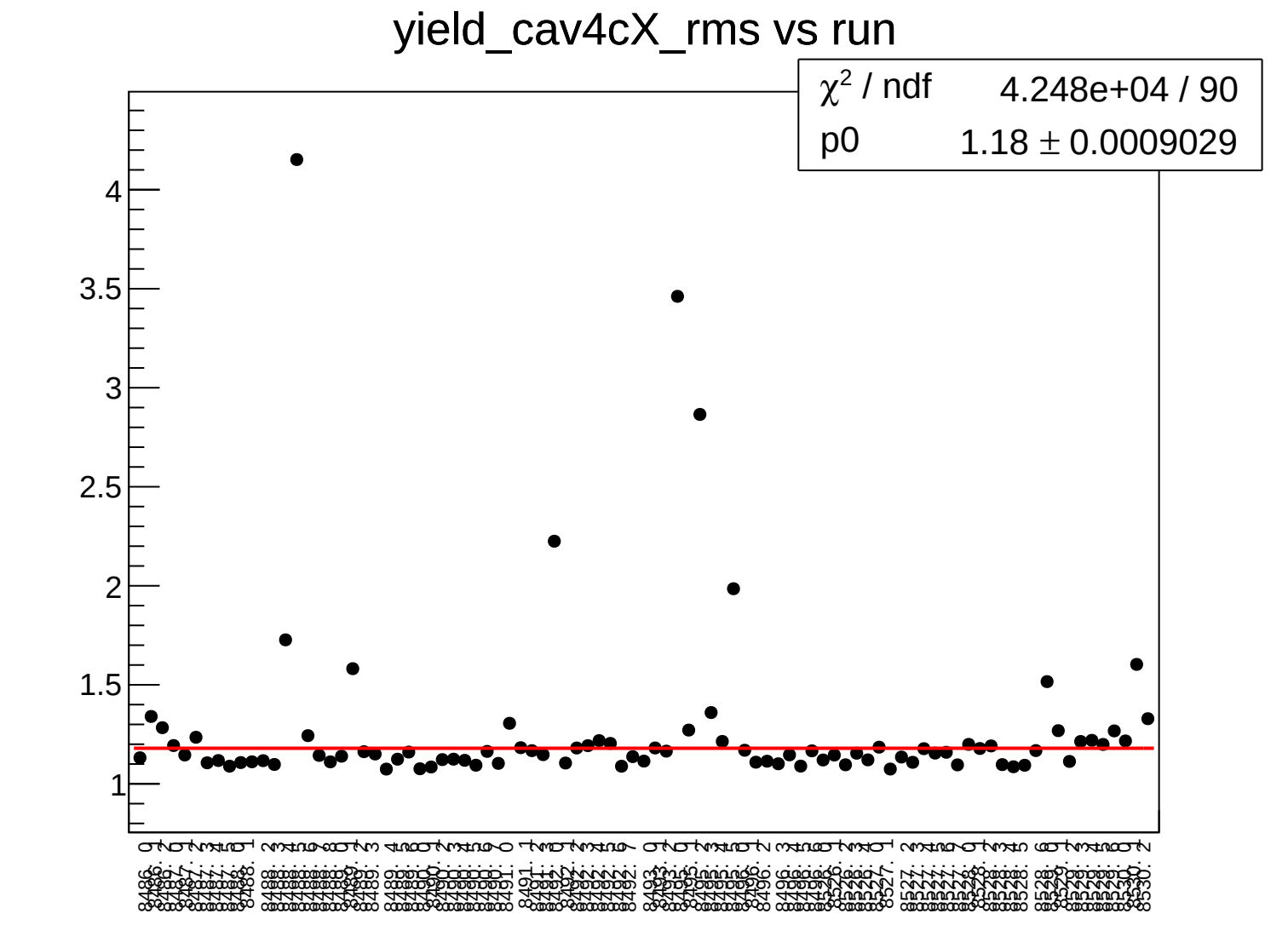

yield_cav4bY_mean vs run
χ² / ndf 1.792e+06 / 90
p0 −67.29 ± 0.0009558
pull
Entries 91
Mean −165.1
Std Dev 0

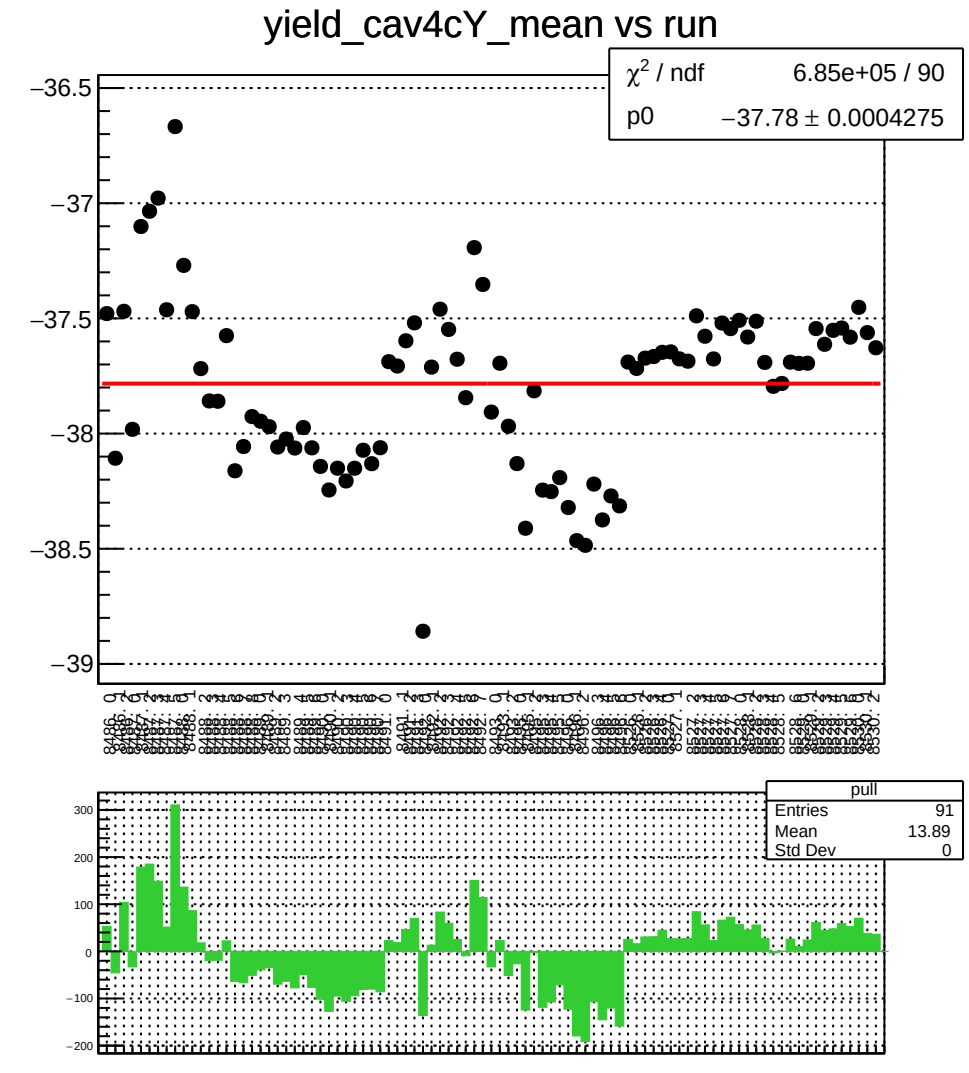

pull1D
Entries 91
Mean 1.079
Std Dev 5.582

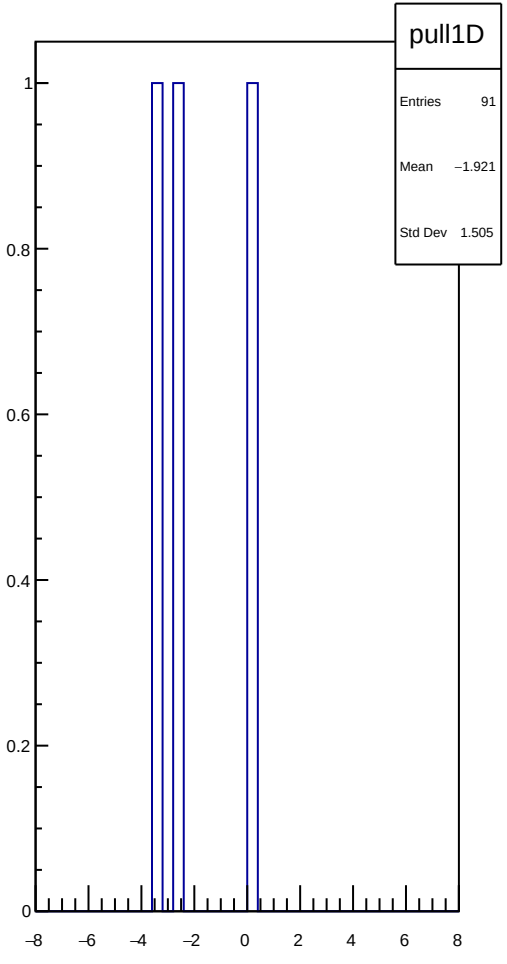

yield_cav4bY_rms vs run
χ^2 / ndf 1.369e+05 / 90
p0 0.8582 ± 0.0006758
3.5
3
2.5
2
1.5
1
0.5

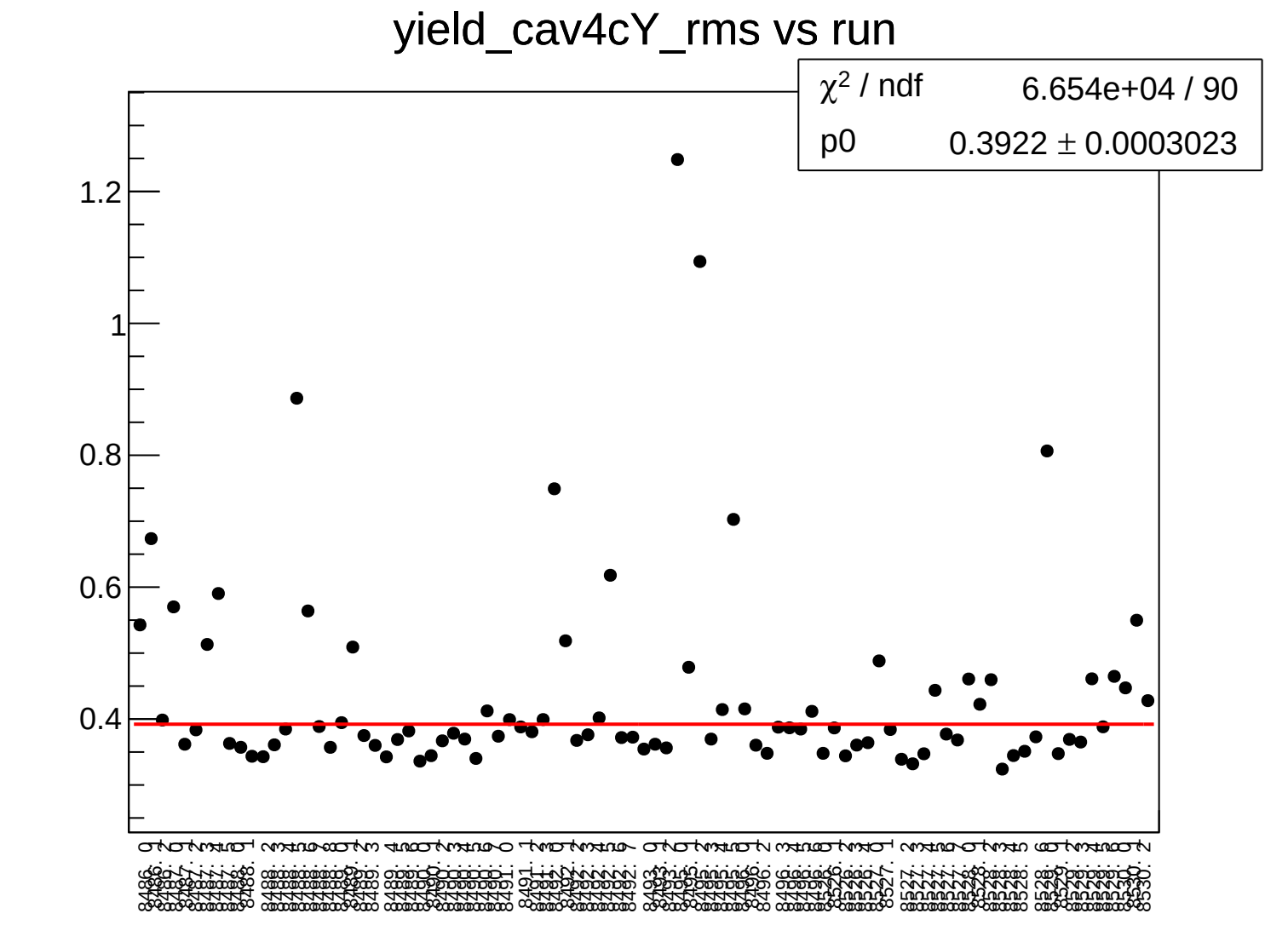

yield_cav4cX_mean vs run
χ² / ndf 5.125e+04 / 90
p0 0.5251± 0.001277
pull
Entries 91
Mean −622.9
Std Dev 0

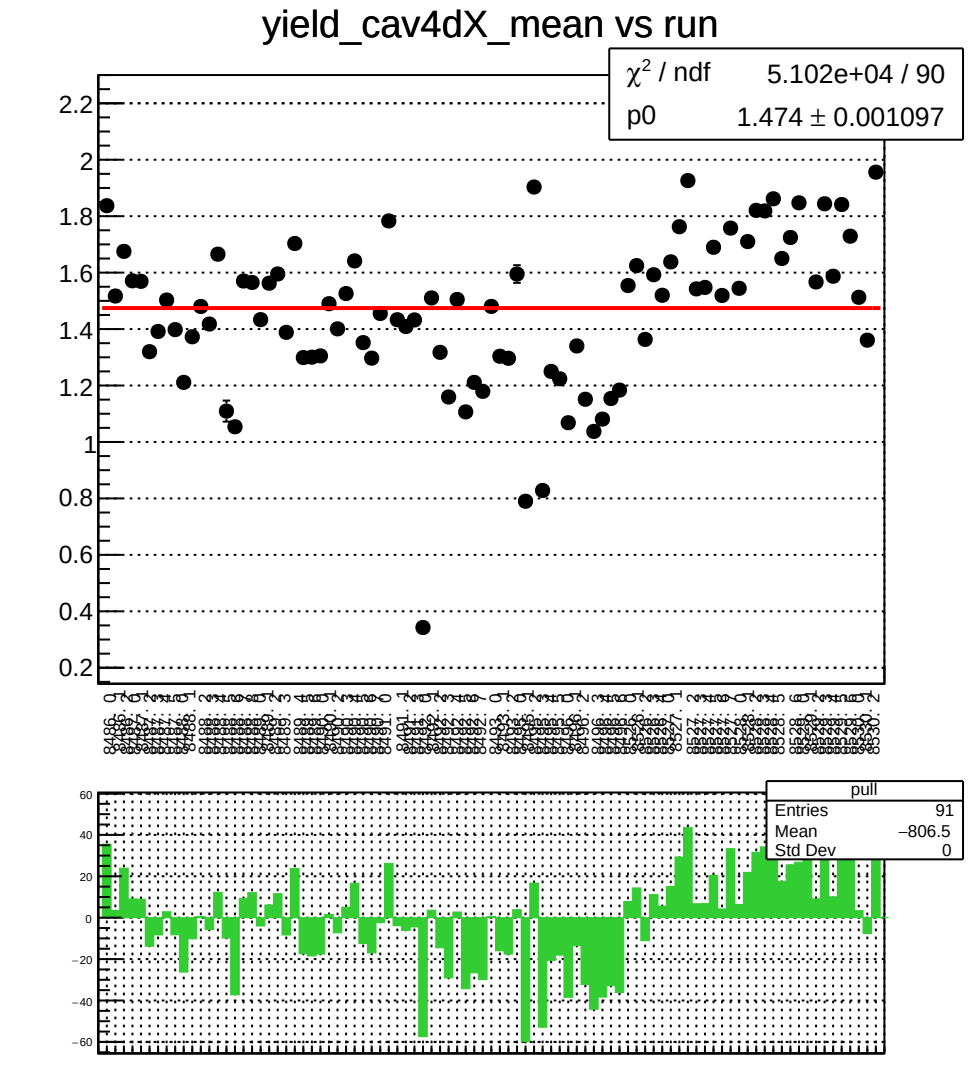

pull1D
Entries 91
Mean 0.7589
Std Dev 4.478

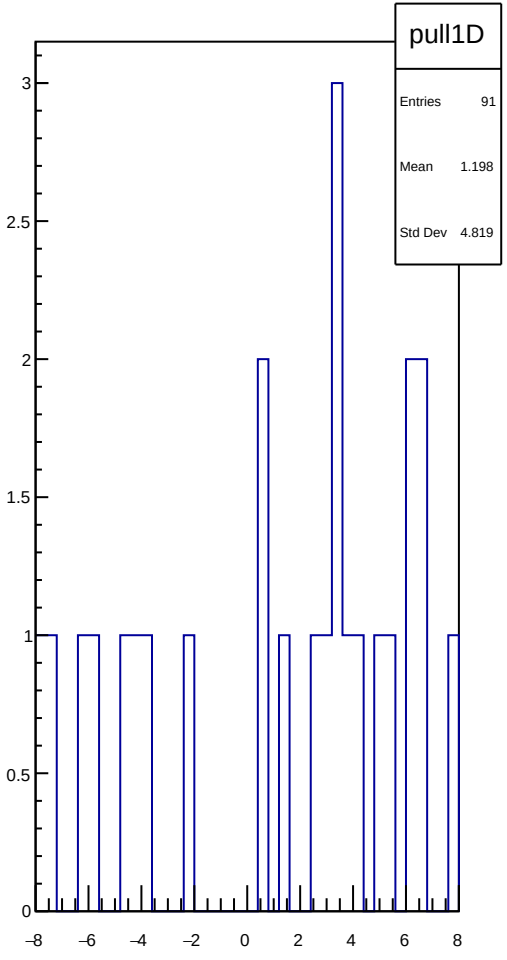

yield_cav4cX_rms vs run
χ^2 / ndf 4.248e+04 / 90
p0 1.18 ± 0.0009029
4
3.5
3
2.5
2
1.5
1

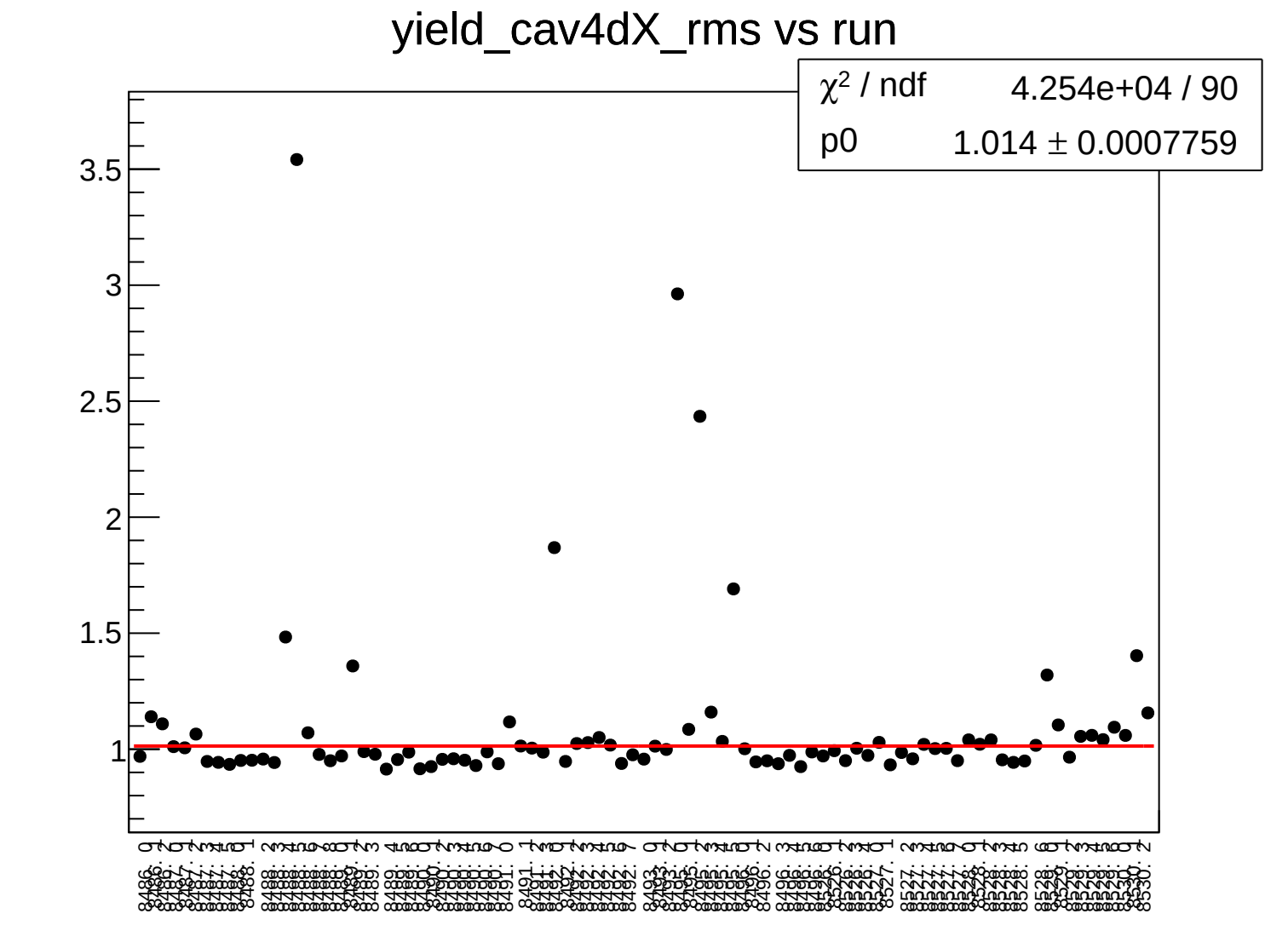

yield_cav4cY_mean vs run
χ² / ndf 6.85e+05 / 90
p0 −37.78 ± 0.0004275
−36.5
−37
−37.5
−38
−38.5
−39
pull
Entries 91
Mean 13.89
Std Dev 0
300
200
100
0
−100
−200

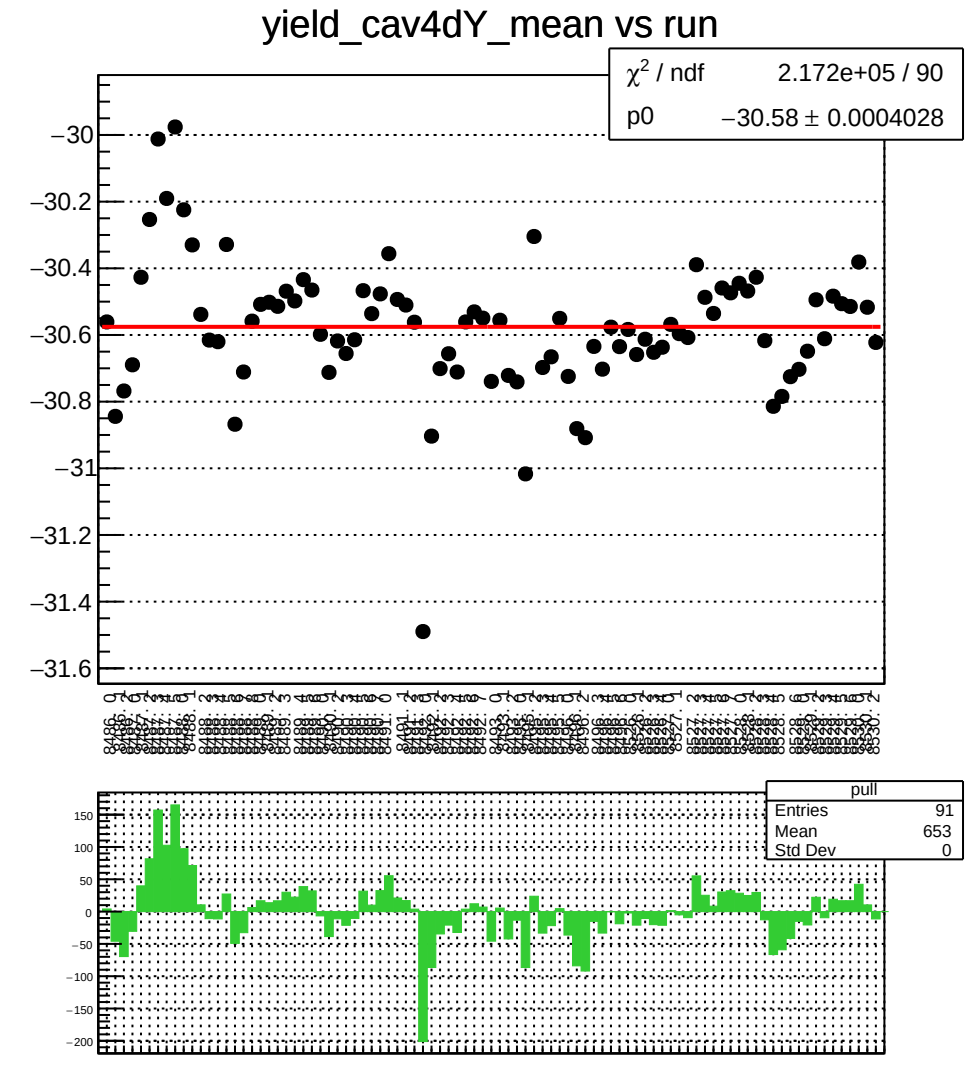

pull1D
Entries 91
Mean −1.921
Std Dev 1.505
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

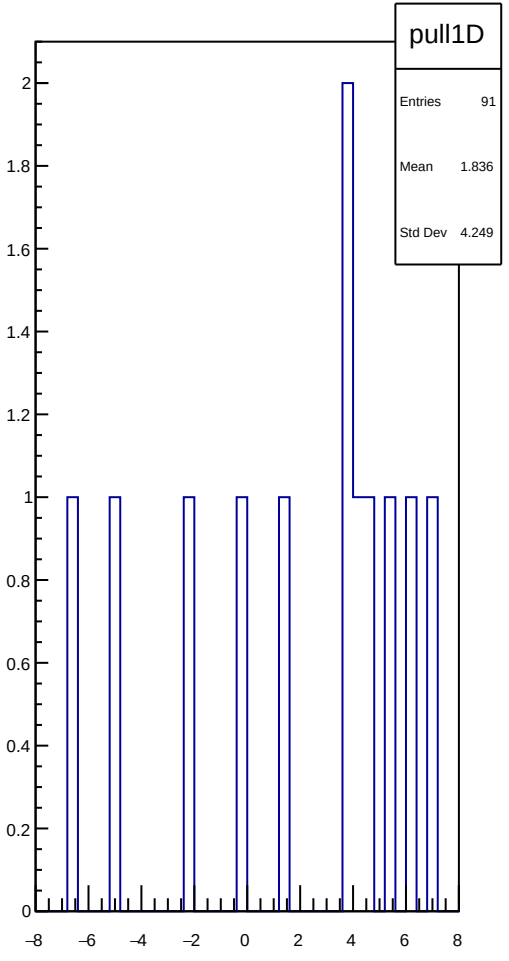

yield_cav4cY_rms vs run
χ² / ndf 6.654e+04 / 90
p0 0.3922 ± 0.0003023
1.2
1
0.8
0.6
0.4

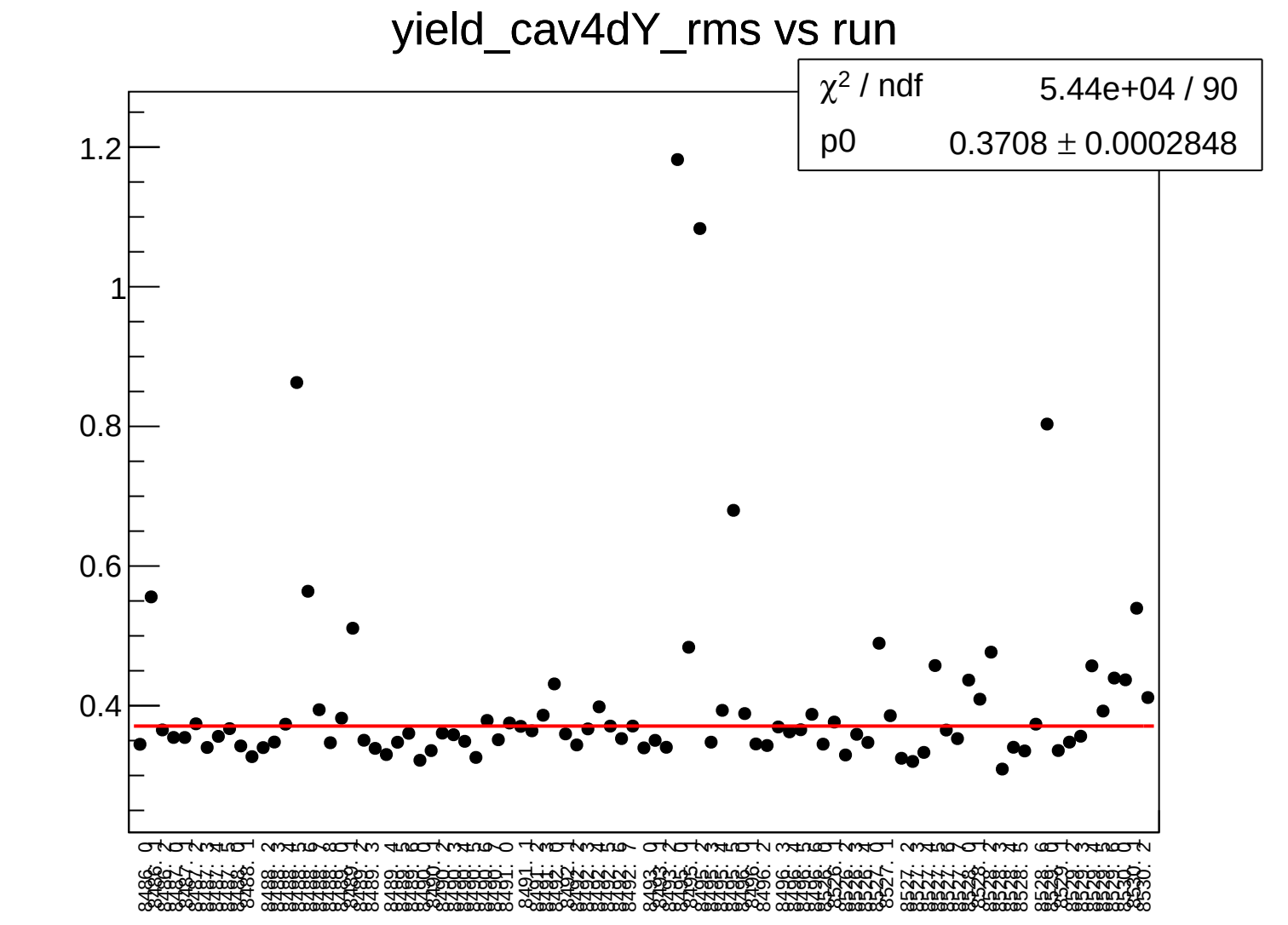

yield_cav4dX_mean vs run
χ² / ndf 5.102e+04 / 90
p0 1.474 ± 0.001097
pull
Entries 91
Mean −806.5
Std Dev 0

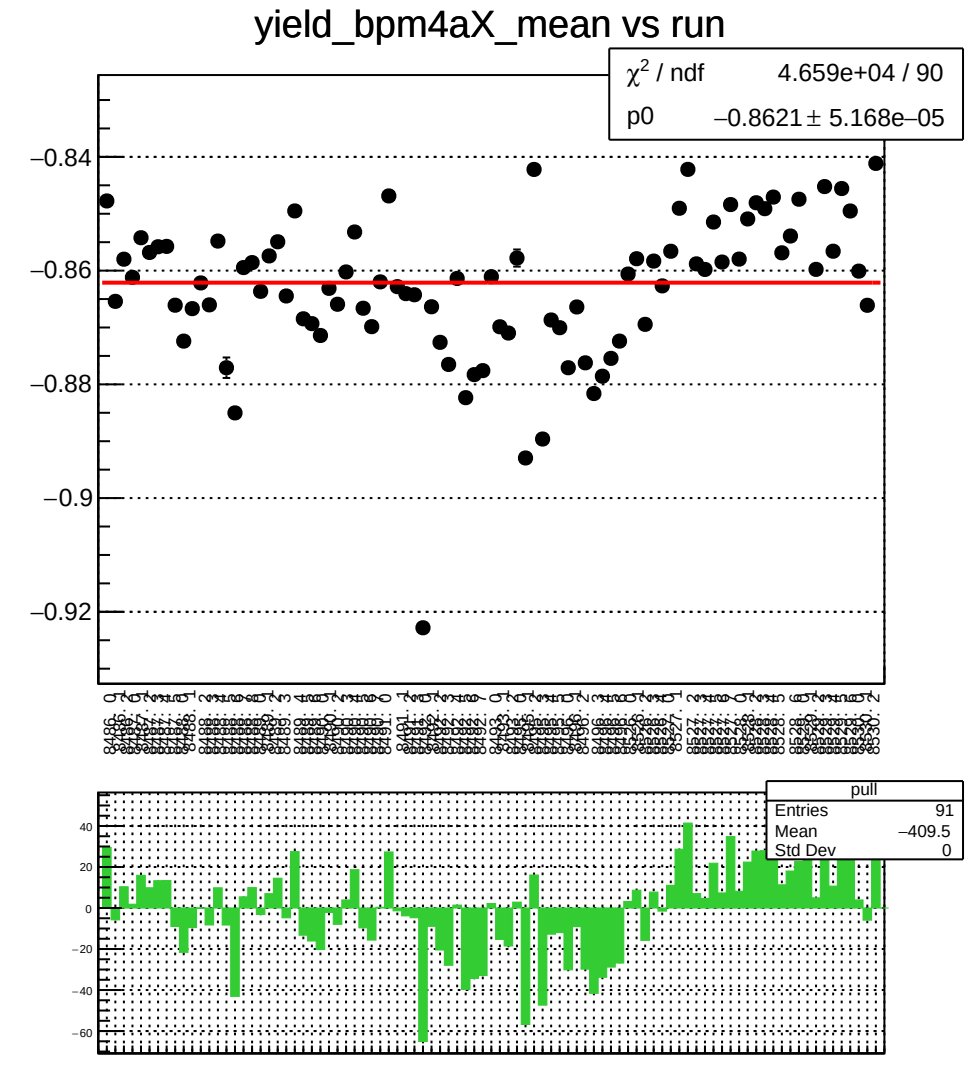

pull1D
Entries 91
Mean 1.198
Std Dev 4.819

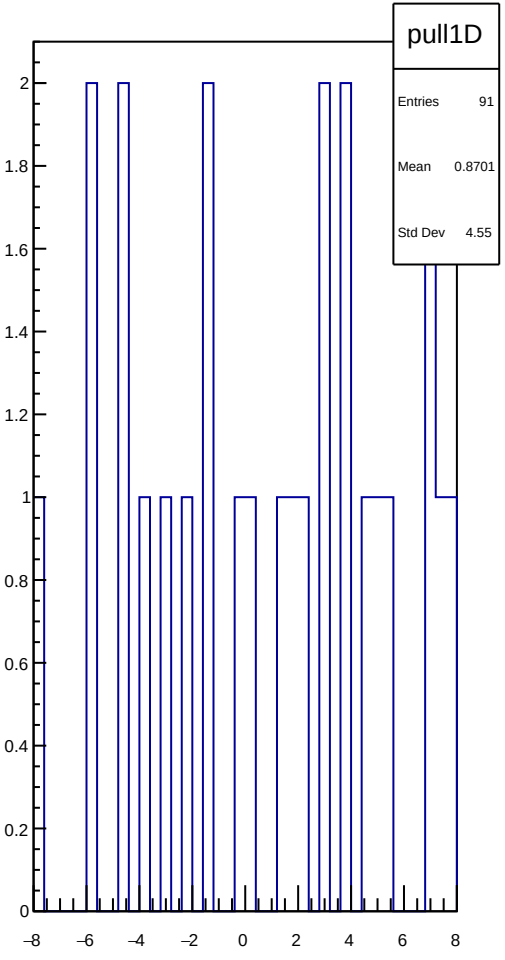

yield_cav4dX_rms vs run
χ² / ndf 4.254e+04 / 90
p0 1.014 ± 0.0007759
3.5
3
2.5
2
1.5
1

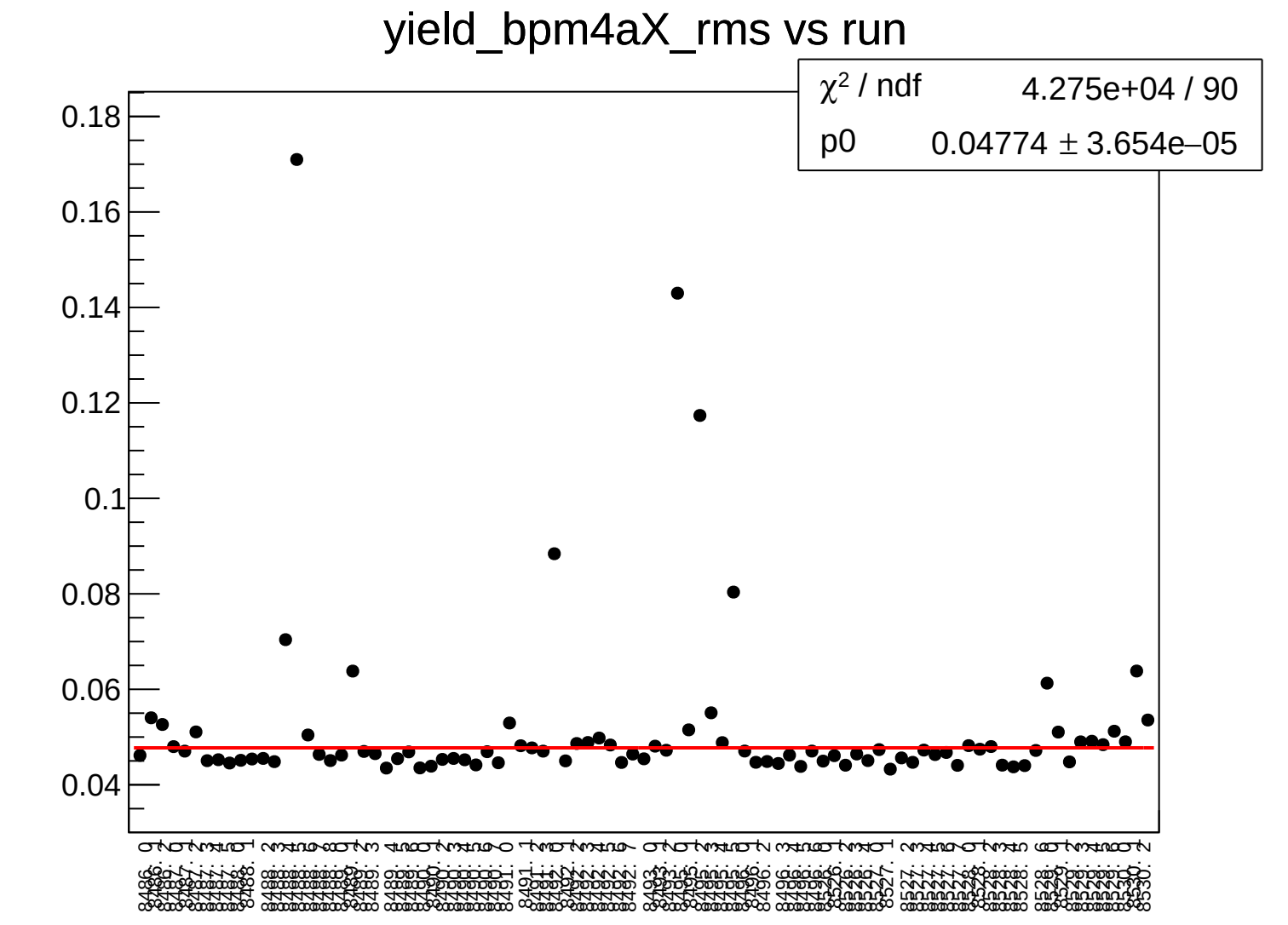

yield_cav4dY_mean vs run
χ² / ndf 2.172e+05 / 90
p0 −30.58 ± 0.0004028
−30
−30.2
−30.4
−30.6
−30.8
−31
−31.2
−31.4
−31.6
pull
Entries 91
Mean 653
Std Dev 0
150
100
50
0
−50
−100
−150
−200

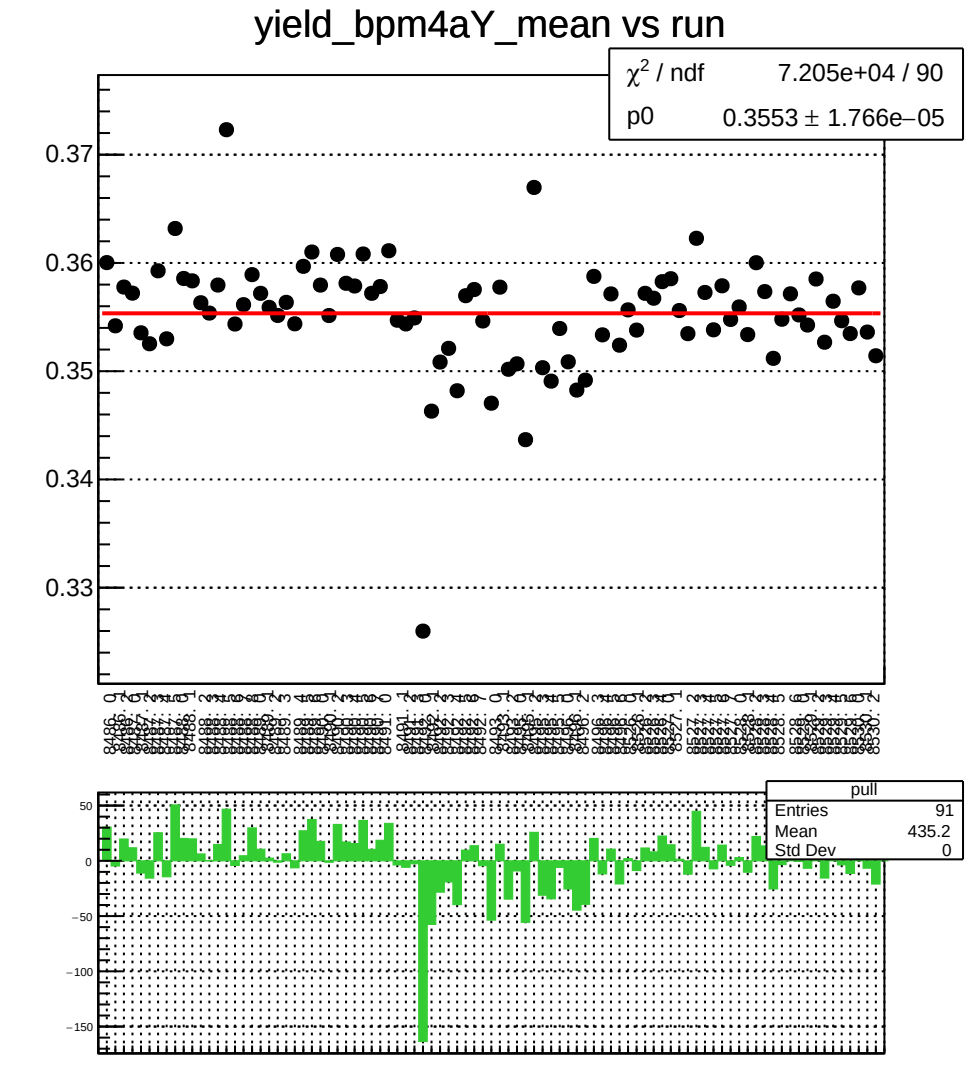

pull1D
Entries 91
Mean 1.836
Std Dev 4.249
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

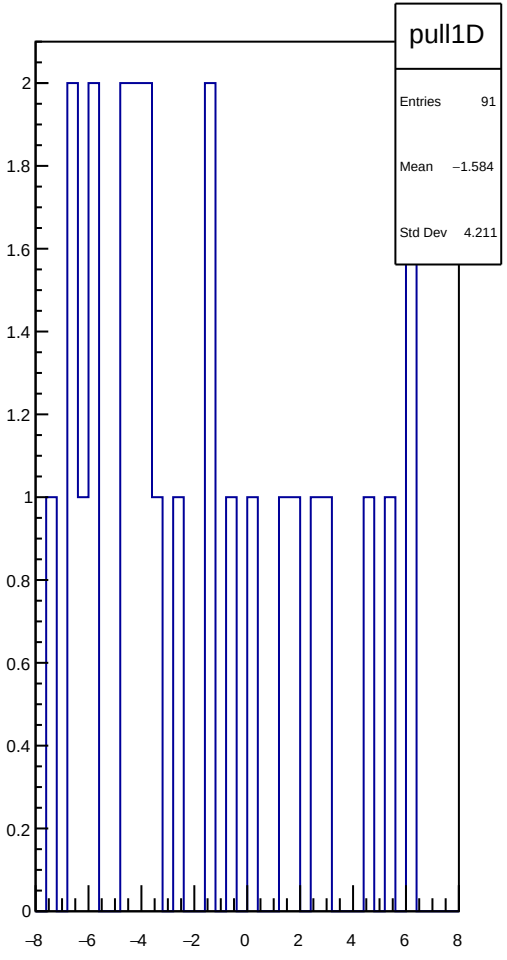

yield_cav4dY_rms vs run
χ² / ndf 5.44e+04 / 90
p0 0.3708 ± 0.0002848
1.2
1
0.8
0.6
0.4

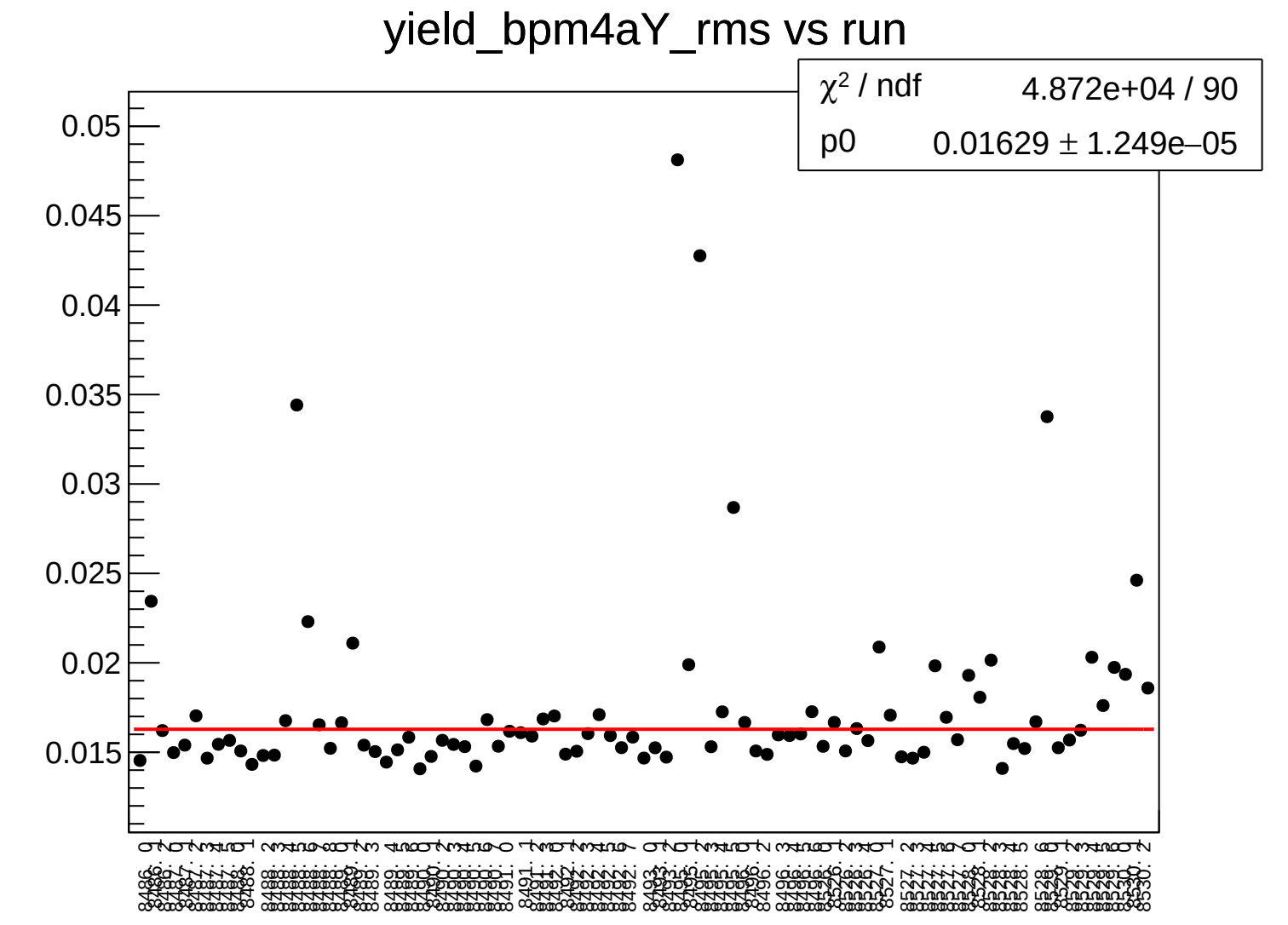

yield_bpm4aX_mean vs run
χ² / ndf 4.659e+04 / 90
p0 −0.8621 ± 5.168e−05
−0.84
−0.86
−0.88
−0.9
−0.92
pull
Entries 91
Mean −409.5
Std Dev 0
40
20
0
−20
−40
−60

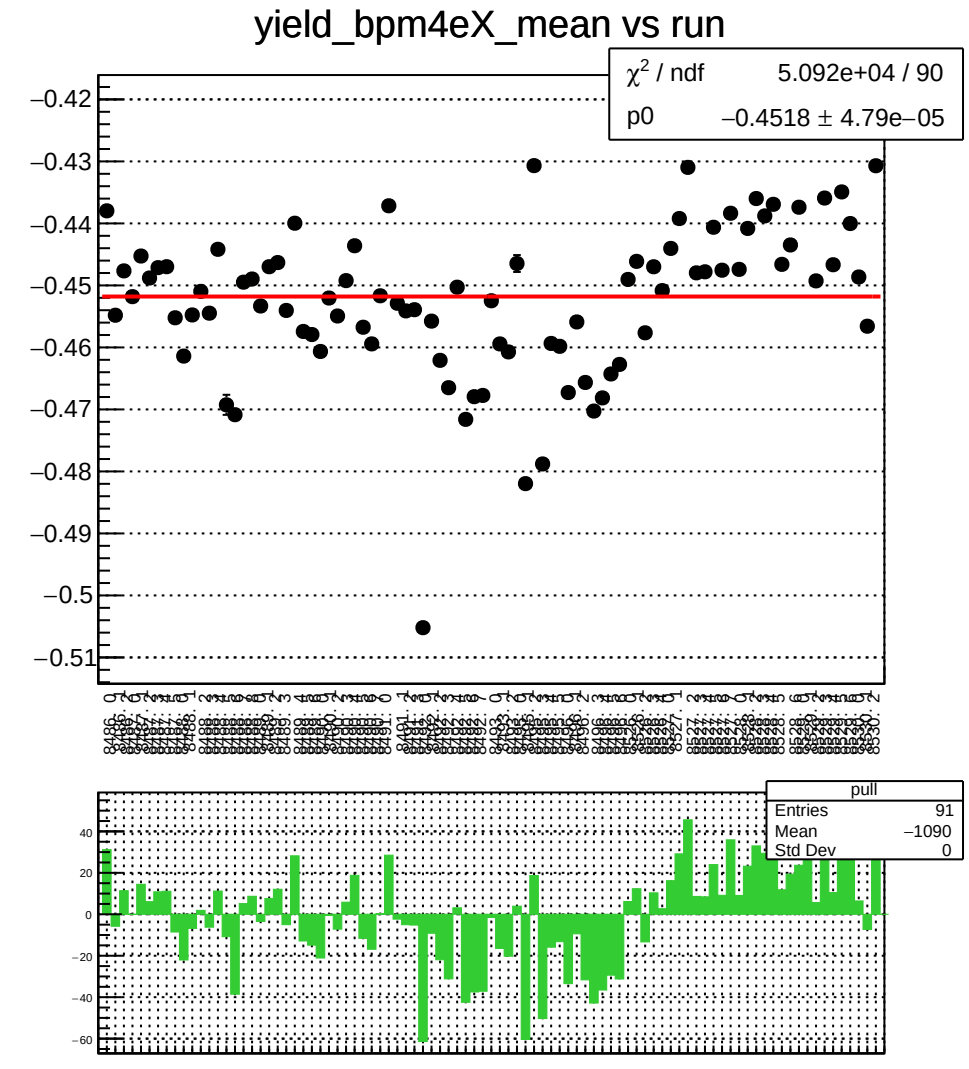

pull1D
Entries 91
Mean 0.8701
Std Dev 4.55
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

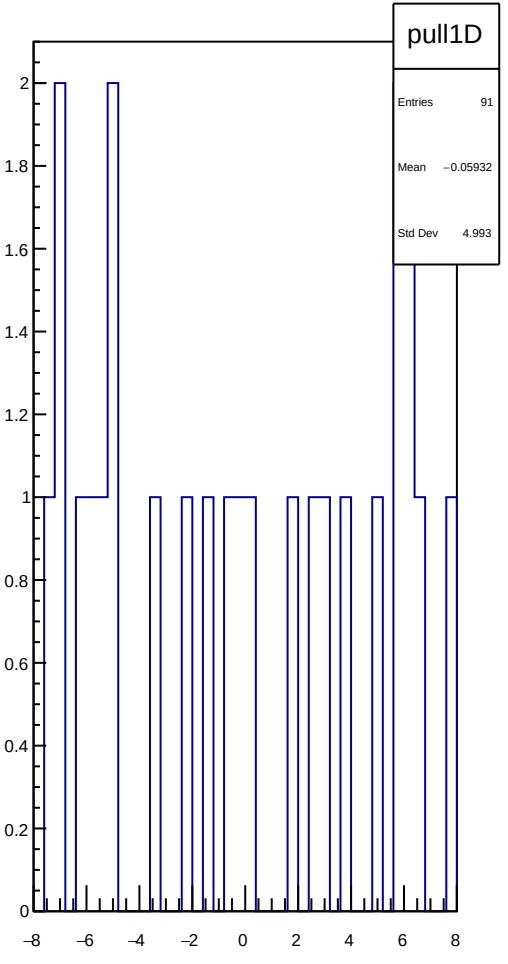

yield_bpm4aX_rms vs run
χ² / ndf 4.275e+04 / 90
p0 0.04774 ± 3.654e–05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04

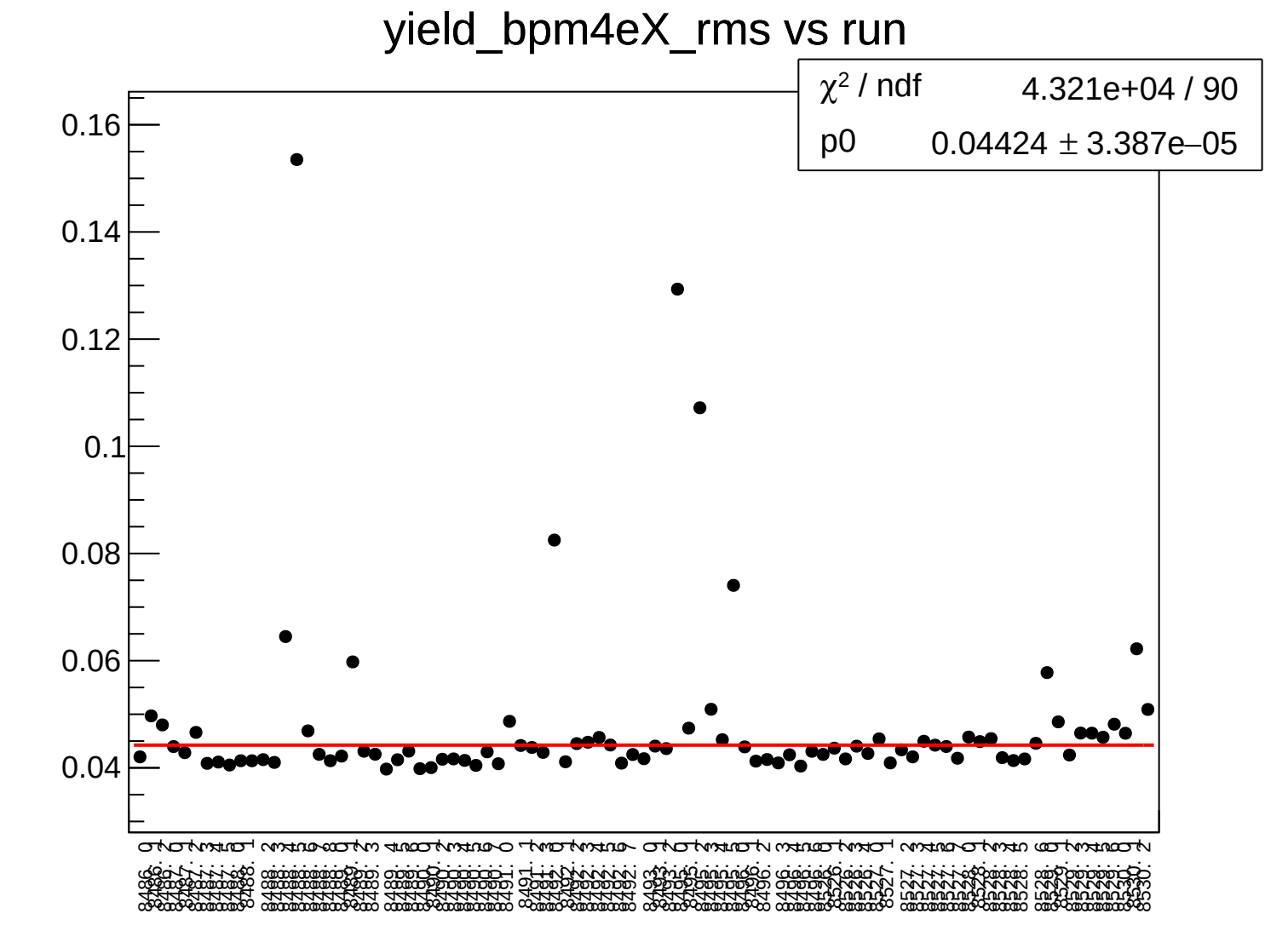

yield_bpm4aY_mean vs run
χ² / ndf 7.205e+04 / 90
p0 0.3553 ± 1.766e−05
0.37
0.36
0.35
0.34
0.33
pull
Entries 91
Mean 435.2
Std Dev 0
50
0
−50
−100
−150

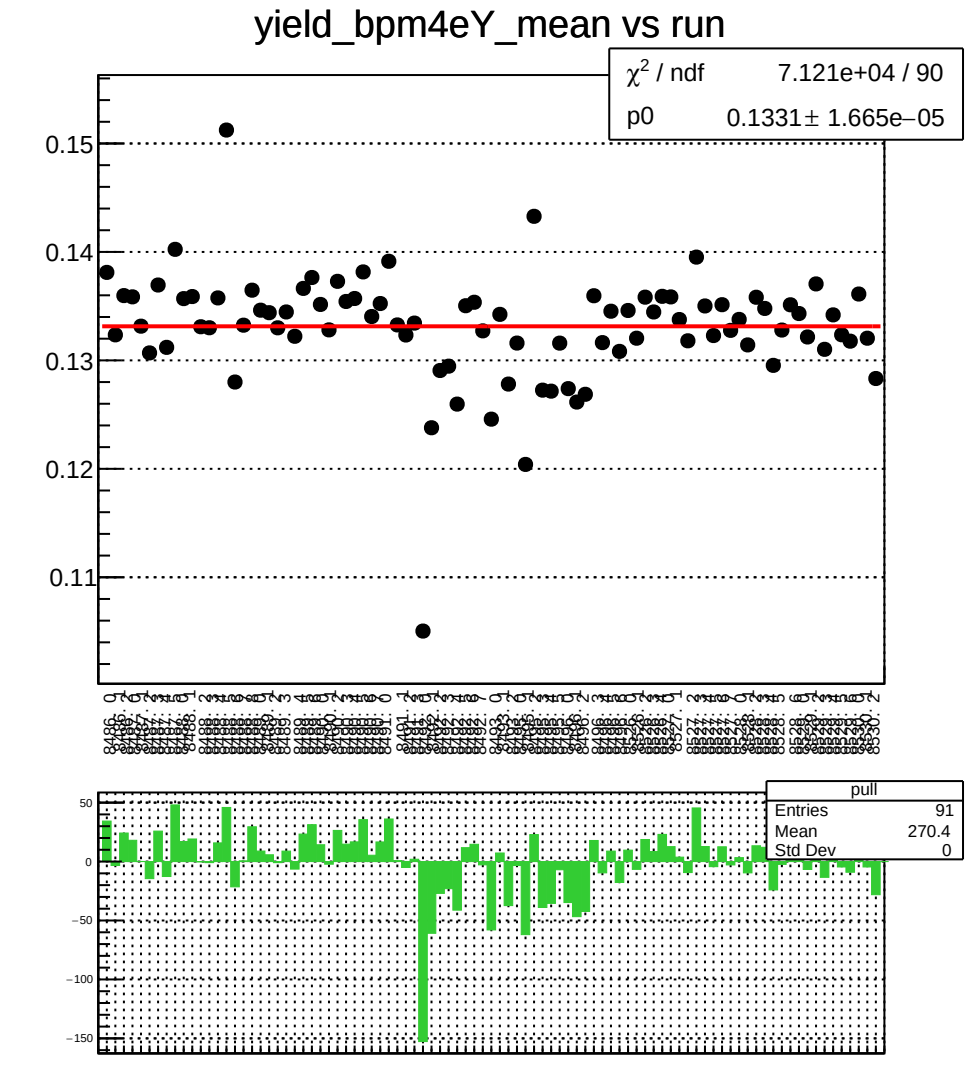

pull1D
Entries 91
Mean −1.584
Std Dev 4.211
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

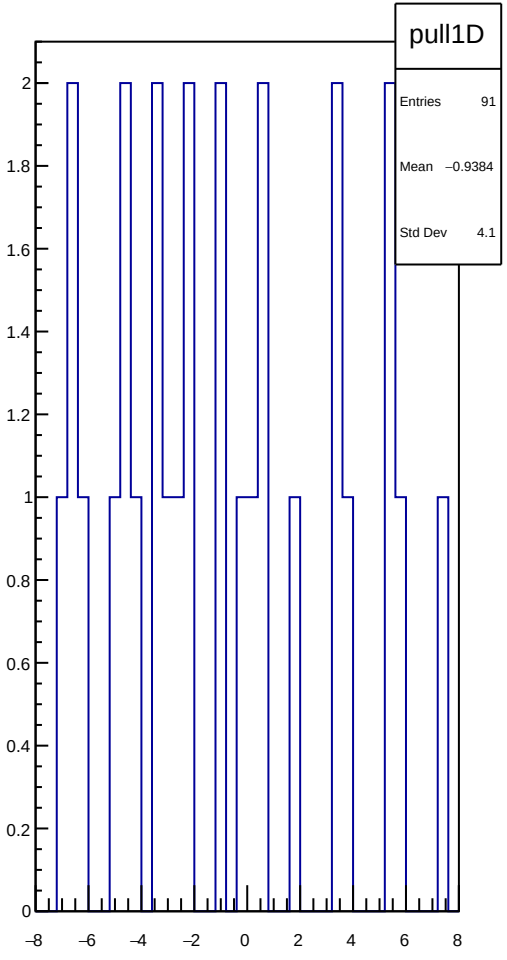

yield_bpm4aY_rms vs run
χ² / ndf 4.872e+04 / 90
p0 0.01629 ± 1.249e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

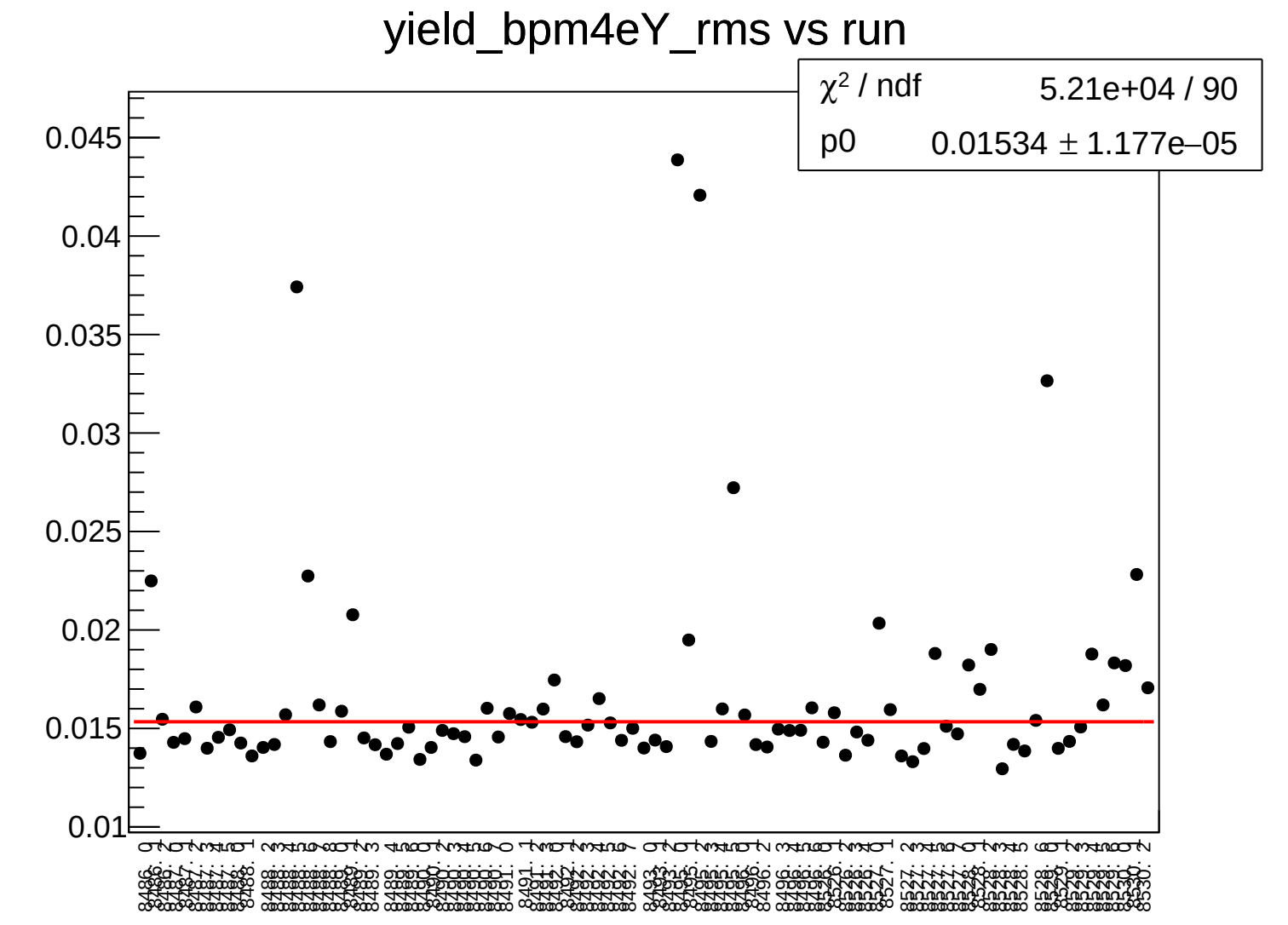

yield_bpm4eX_mean vs run
χ² / ndf 5.092e+04 / 90
p0 −0.4518 ± 4.79e−05
−0.42
−0.43
−0.44
−0.45
−0.46
−0.47
−0.48
−0.49
−0.5
−0.51
pull
Entries 91
Mean −1090
Std Dev 0
40
20
0
−20
−40
−60

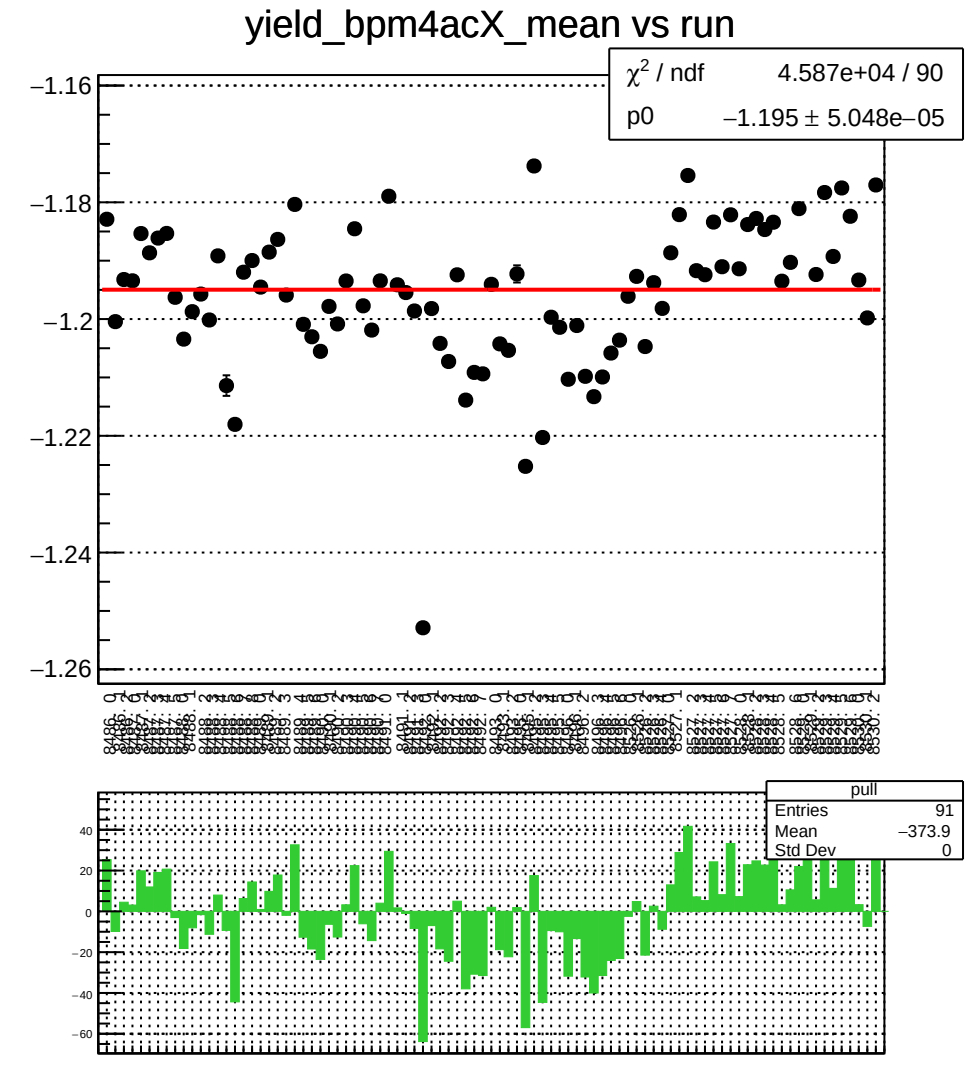

pull1D
Entries 91
Mean −0.05932
Std Dev 4.993
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

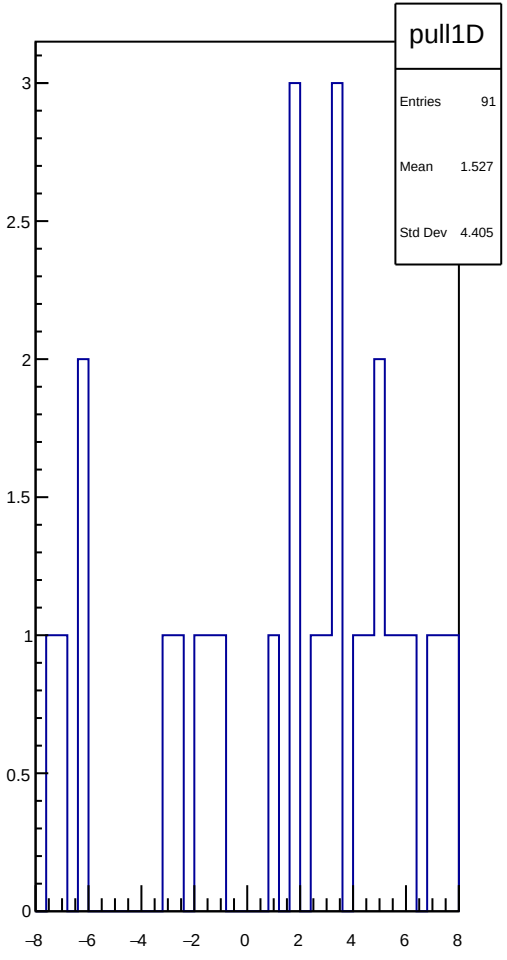

yield_bpm4eX_rms vs run
χ² / ndf 4.321e+04 / 90
p0 0.04424 ± 3.387e–05
0.16
0.14
0.12
0.1
0.08
0.06
0.04

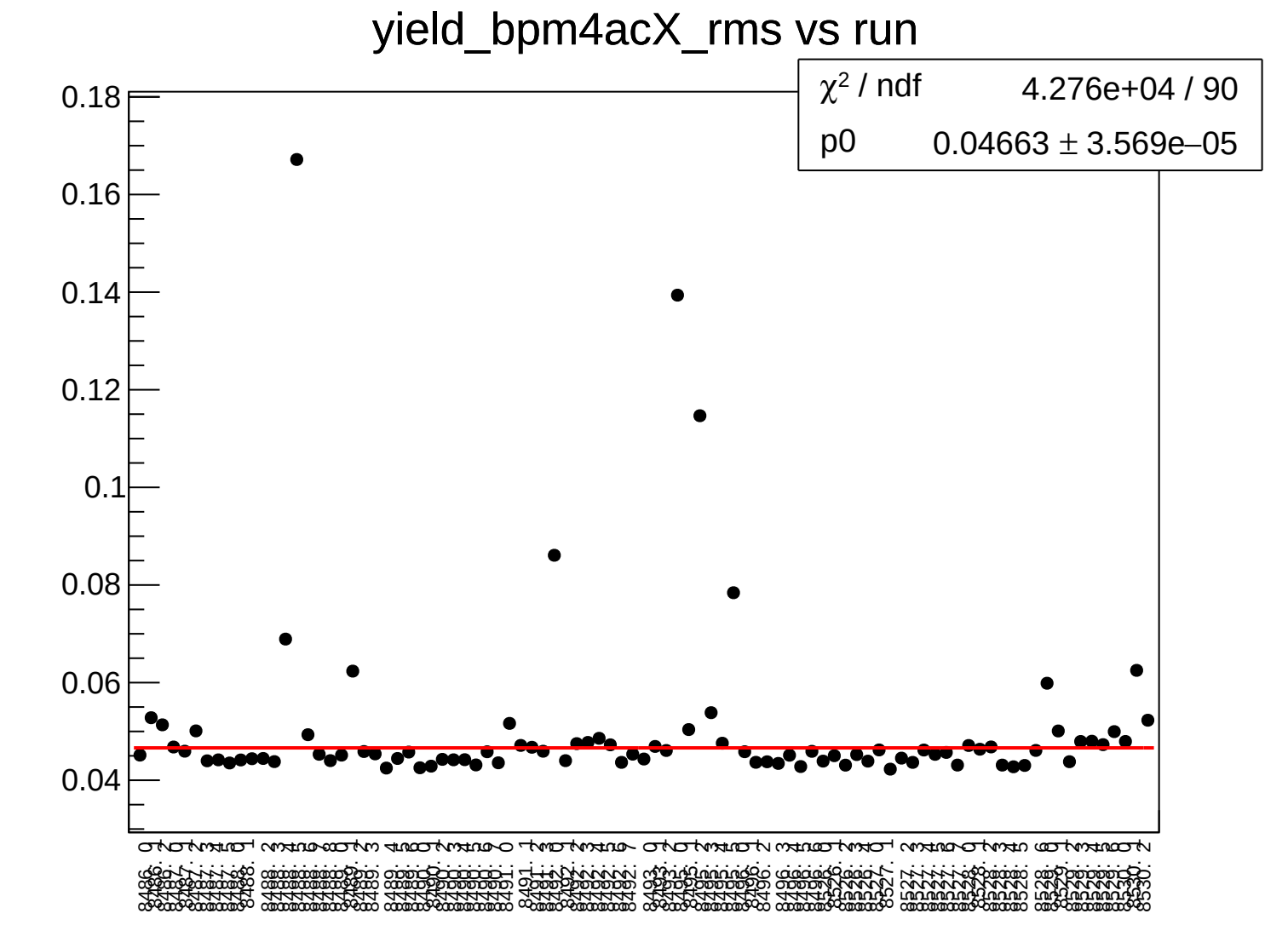

yield_bpm4eY_mean vs run
χ² / ndf 7.121e+04 / 90
p0 0.1331 ± 1.665e−05
0.15
0.14
0.13
0.12
0.11
pull
Entries 91
Mean 270.4
Std Dev 0
50
0
−50
−100
−150

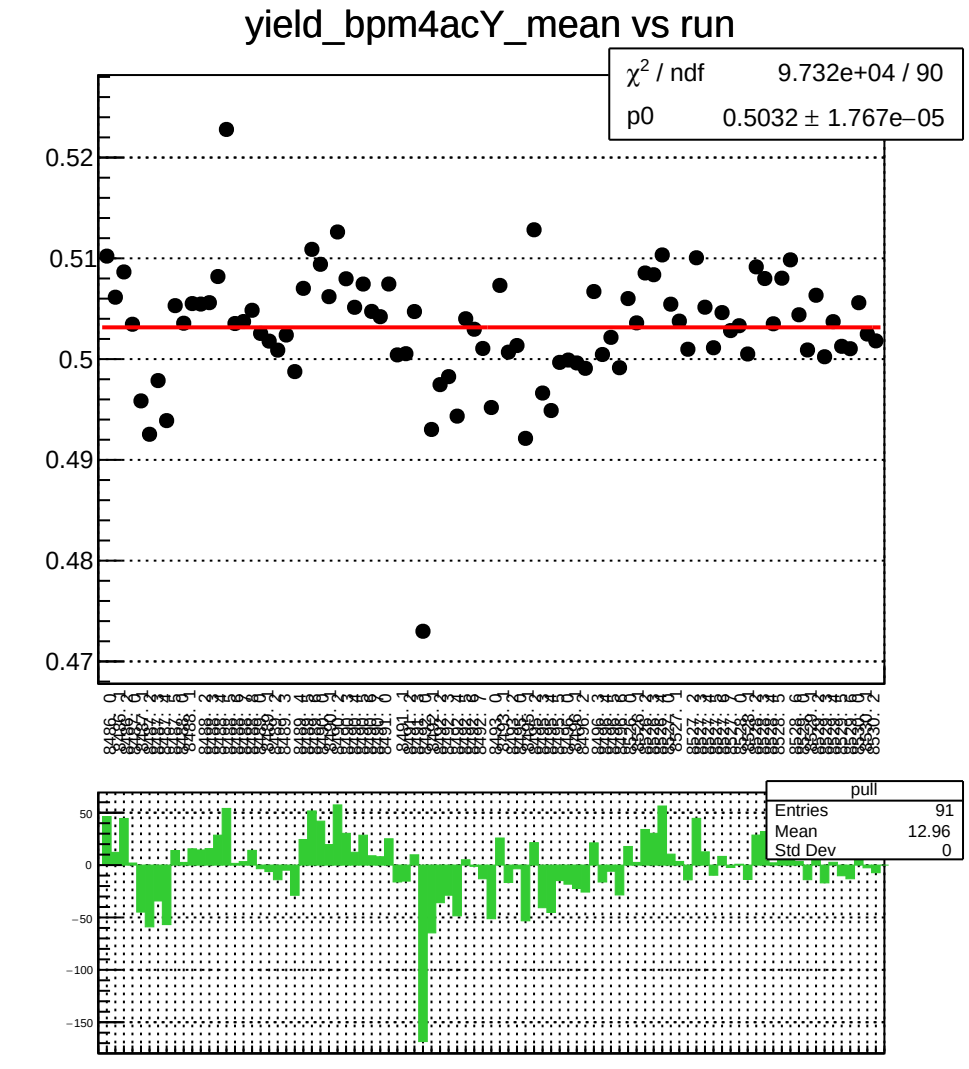

pull1D
Entries 91
Mean −0.9384
Std Dev 4.1
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

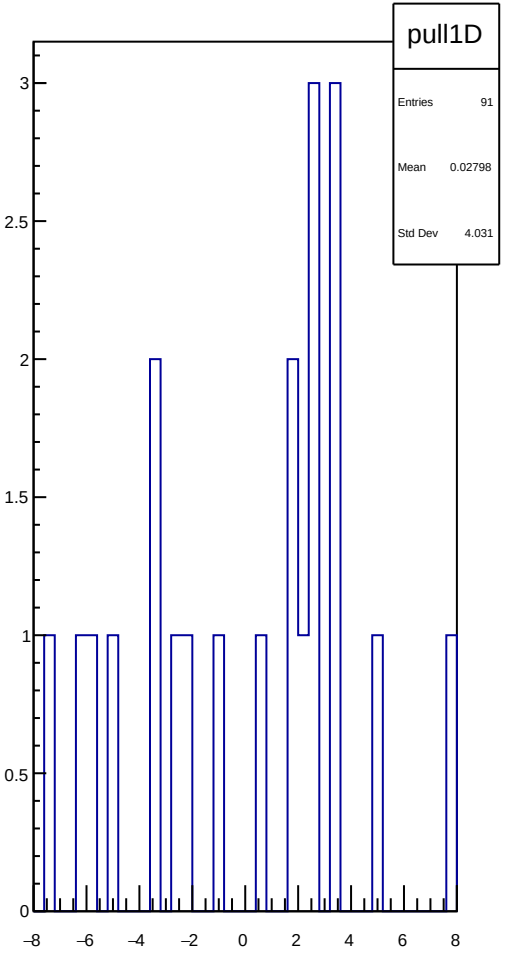

yield_bpm4eY_rms vs run
χ² / ndf 5.21e+04 / 90
p0 0.01534 ± 1.177e–05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

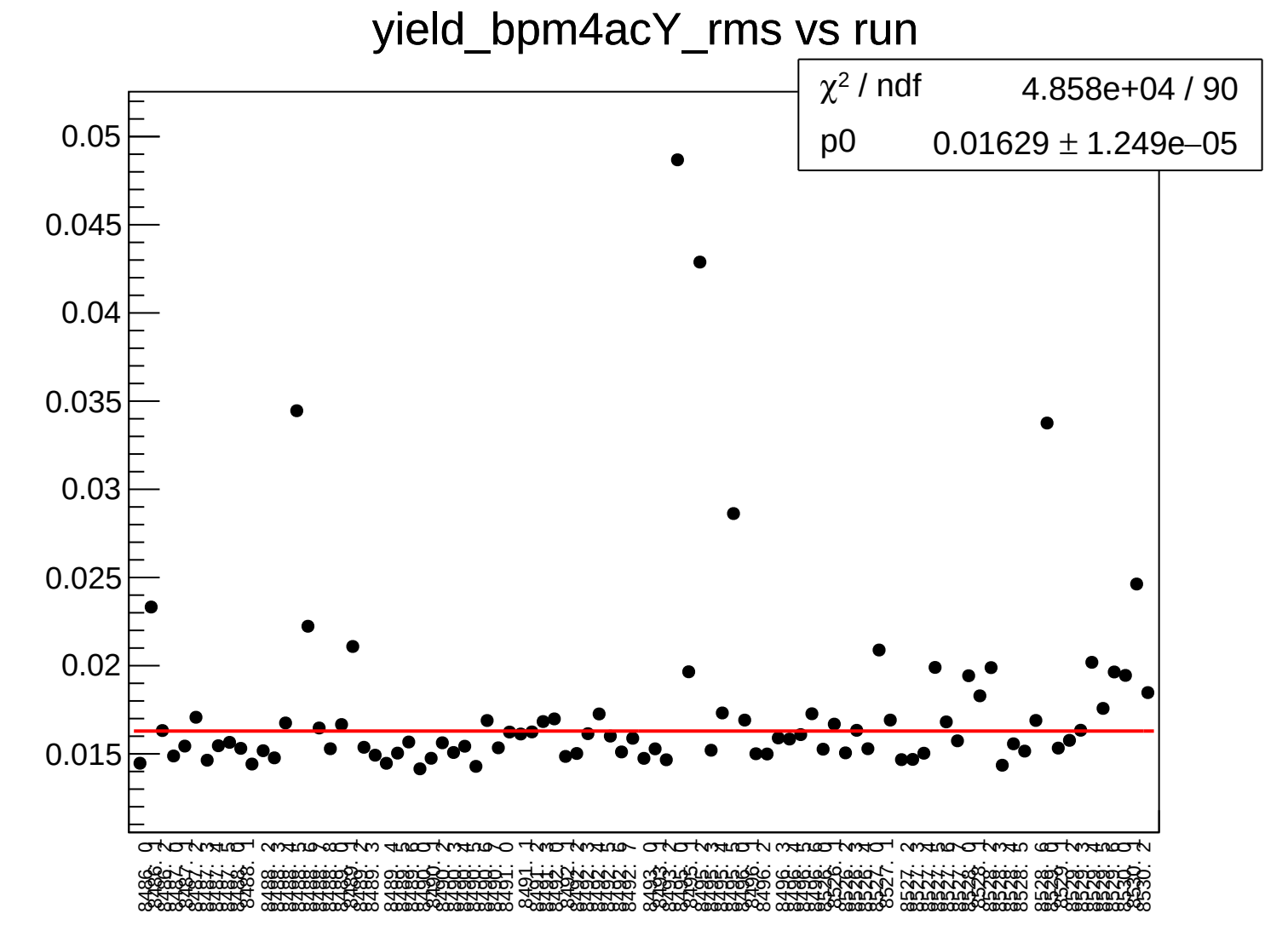

yield_bpm4acX_mean vs run
χ² / ndf 4.587e+04 / 90
p0 −1.195 ± 5.048e−05
−1.16
−1.18
−1.2
−1.22
−1.24
−1.26
pull
Entries 91
Mean −373.9
Std Dev 0
40
20
0
−20
−40
−60

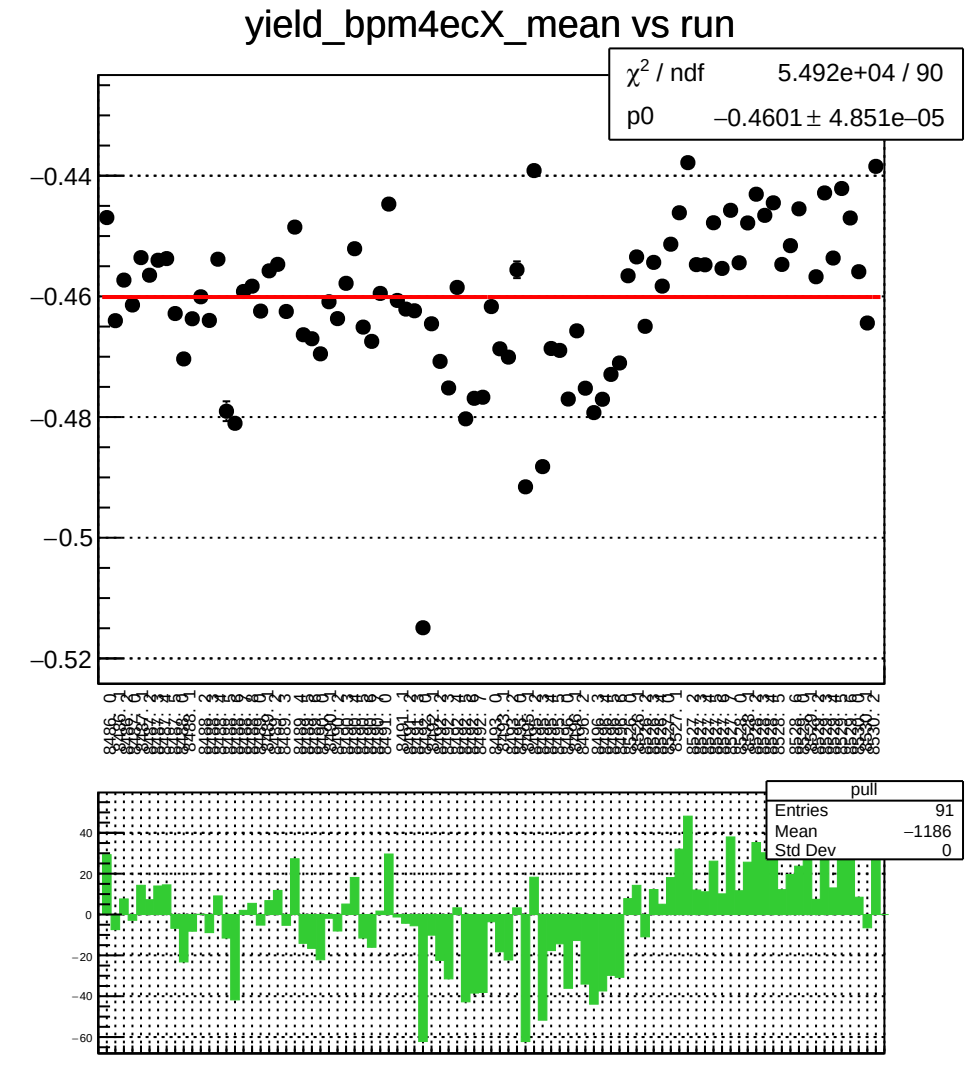

pull1D
Entries 91
Mean 1.527
Std Dev 4.405
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

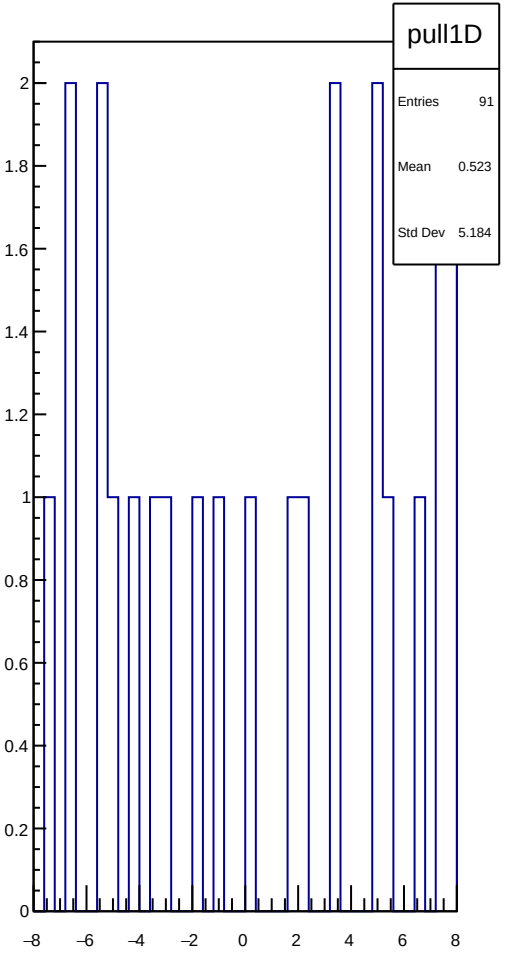

yield_bpm4acX_rms vs run
χ² / ndf 4.276e+04 / 90
p0 0.04663 ± 3.569e–05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04

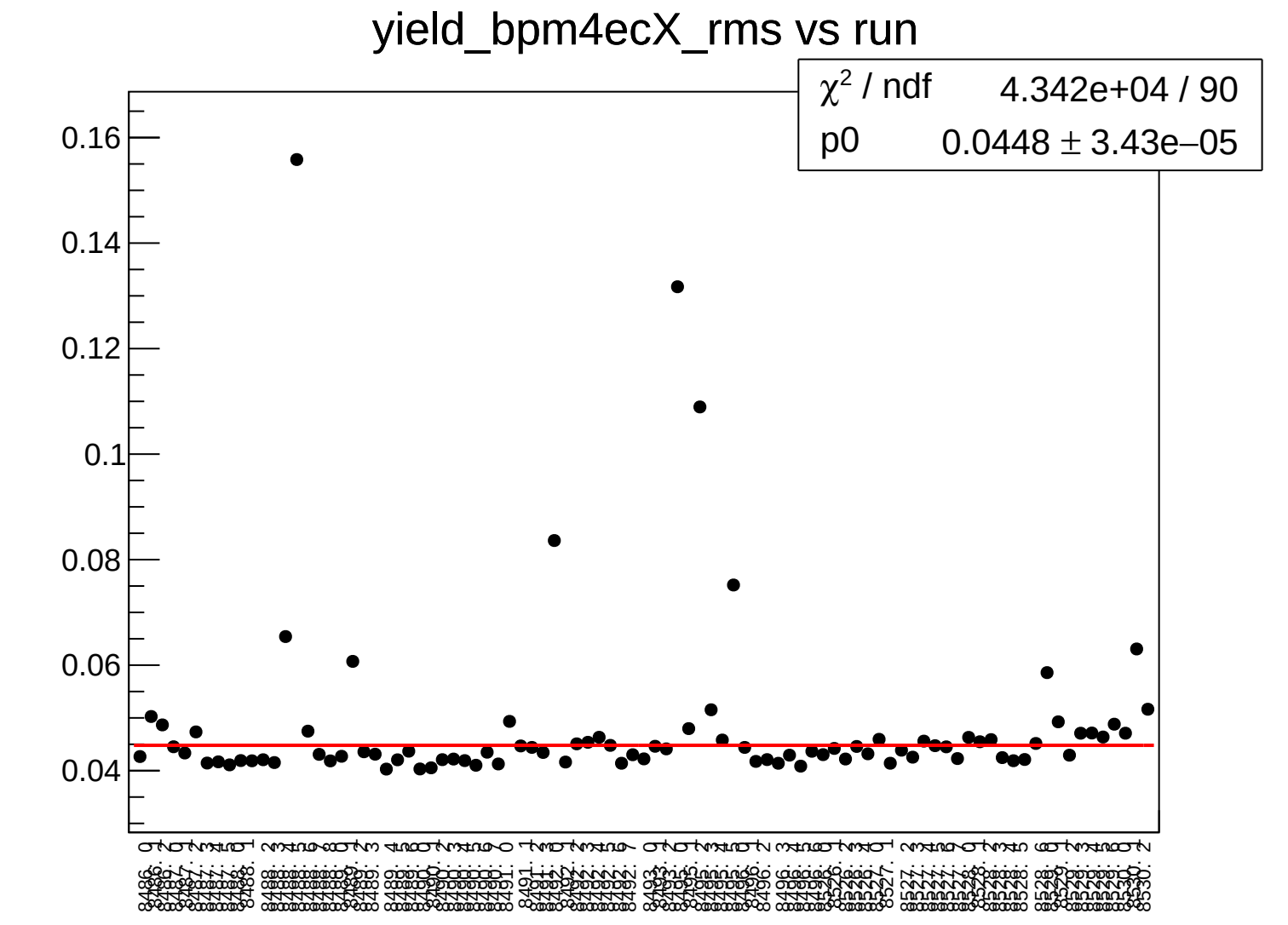

yield_bpm4acY_mean vs run
χ² / ndf 9.732e+04 / 90
p0 0.5032 ± 1.767e−05
0.52
0.51
0.5
0.49
0.48
0.47
pull
Entries 91
Mean 12.96
Std Dev 0
50
0
−50
−100
−150

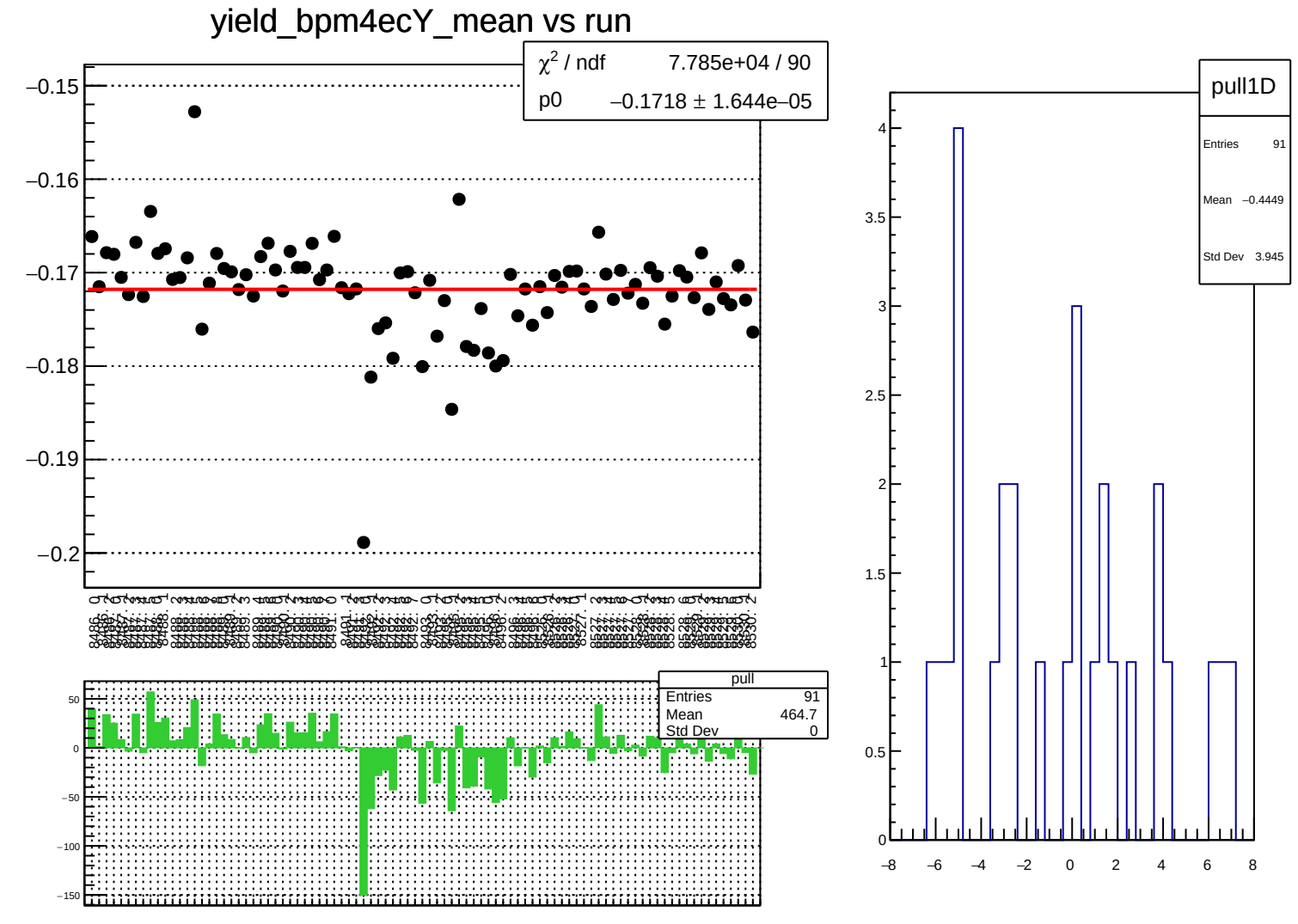

pull1D
Entries 91
Mean 0.02798
Std Dev 4.031
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

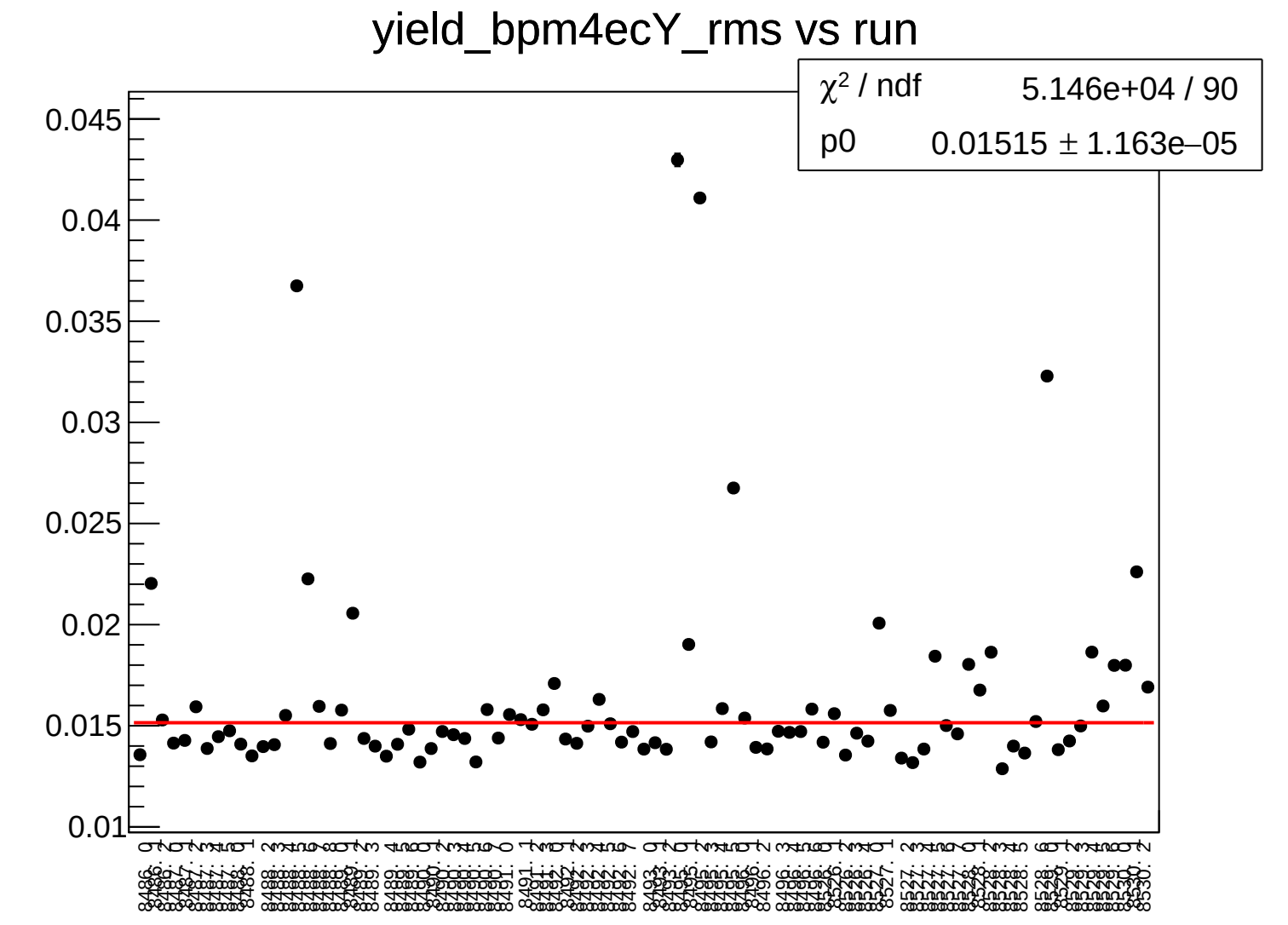

yield_bpm4acY_rms vs run
χ² / ndf 4.858e+04 / 90
p0 0.01629 ± 1.249e–05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

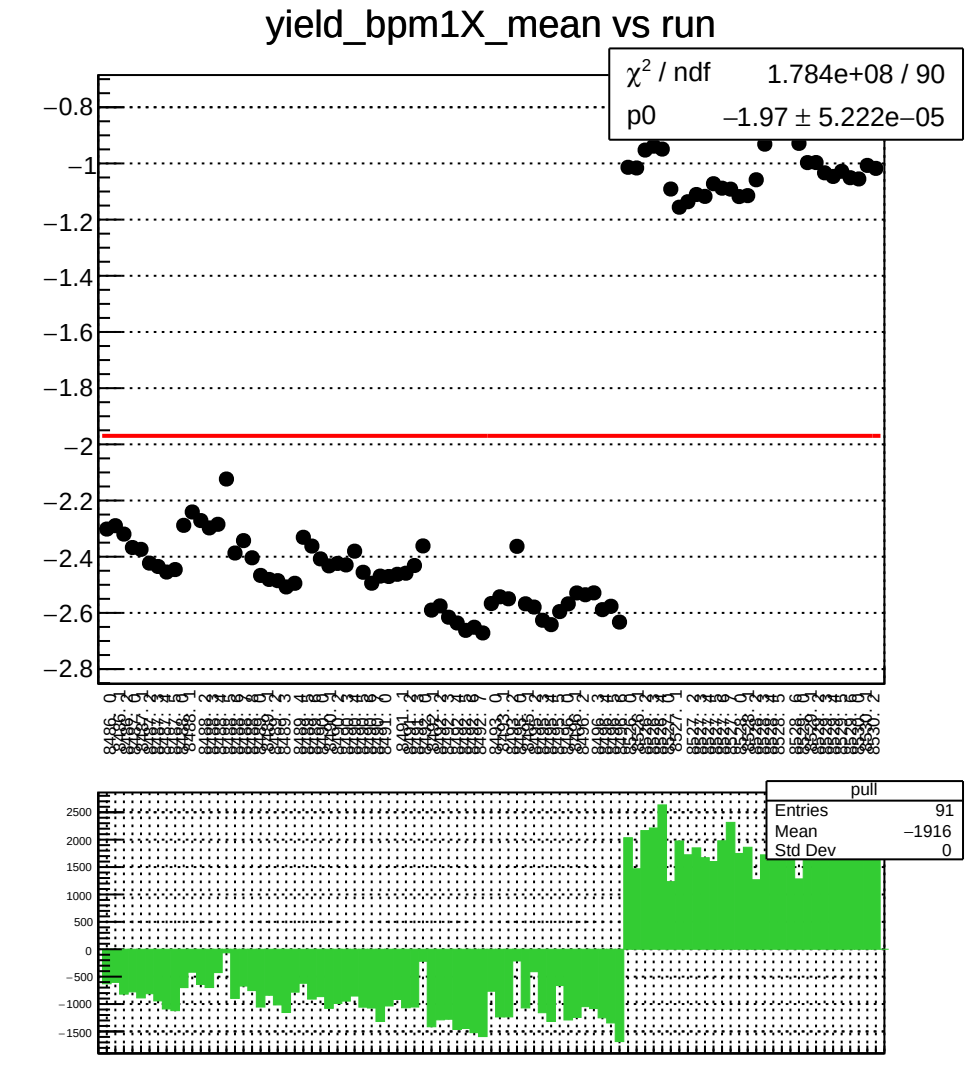

yield_bpm4ecX_mean vs run
χ² / ndf 5.492e+04 / 90
p0 −0.4601 ± 4.851e−05
−0.44
−0.46
−0.48
−0.5
−0.52
pull
Entries 91
Mean −1186
Std Dev 0
40
20
0
−20
−40
−60

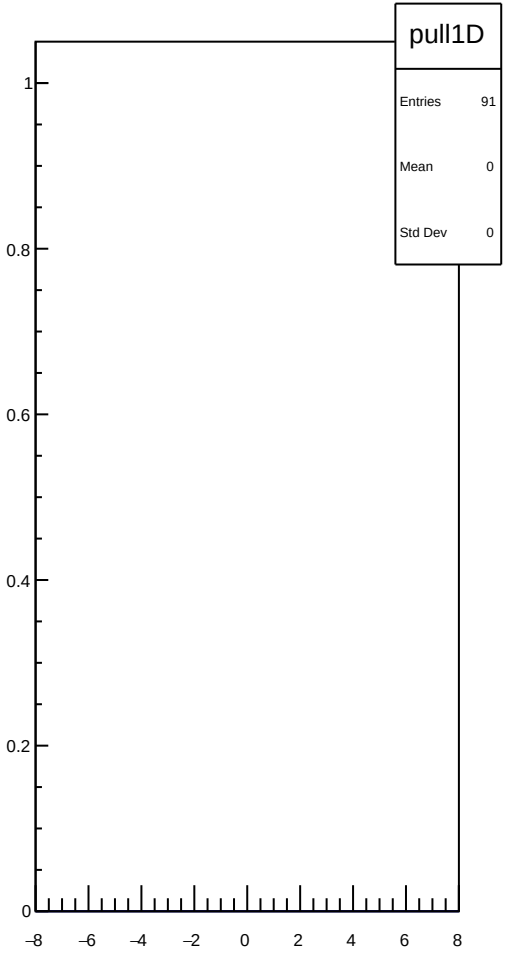

pull1D
Entries 91
Mean 0.523
Std Dev 5.184
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

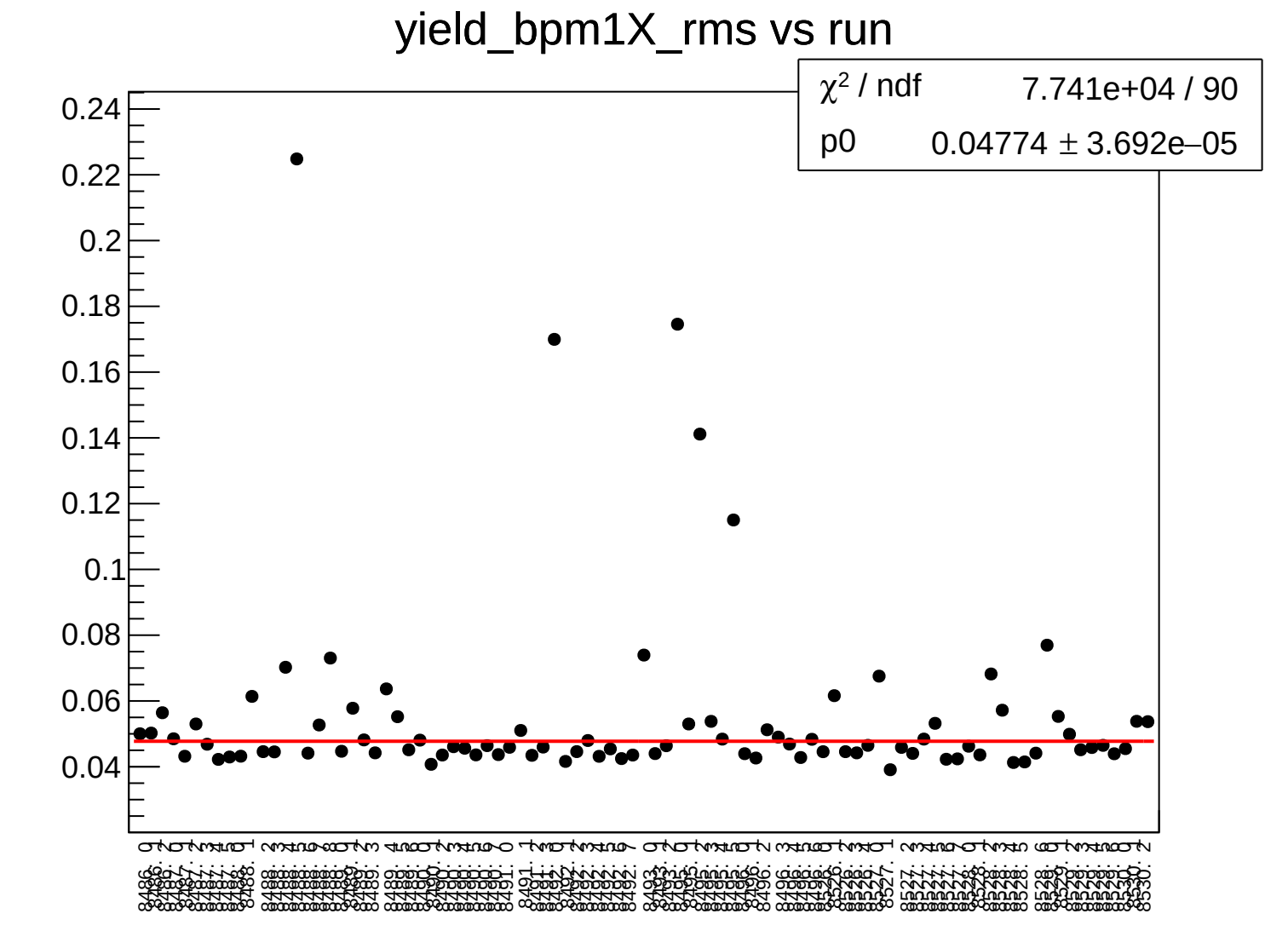

yield_bpm4ecX_rms vs run
χ^2 / ndf 4.342e+04 / 90
p0 0.0448 ± 3.43e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04

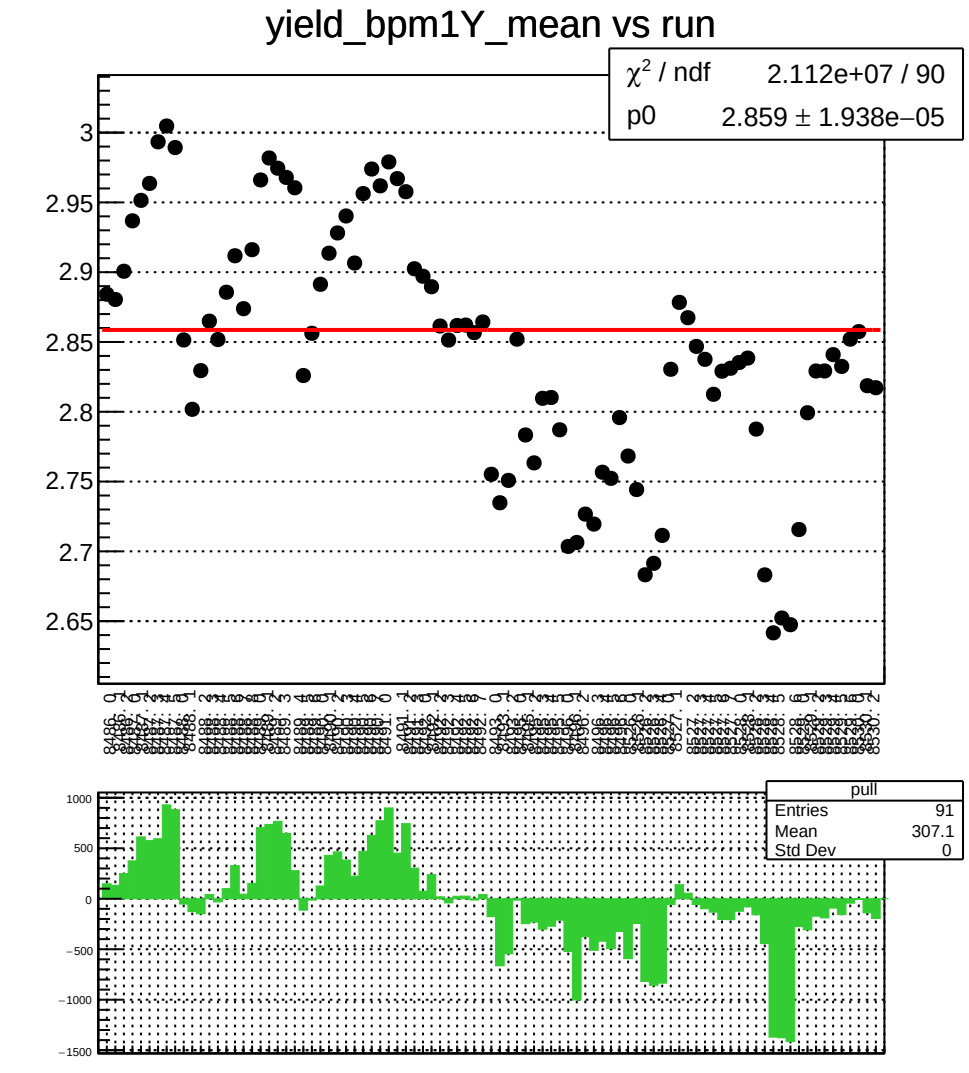

yield_bpm4ecY_mean vs run
χ² / ndf 7.785e+04 / 90
p0 −0.1718 ± 1.644e−05
−0.15
−0.16
−0.17
−0.18
−0.19
−0.2
pull
Entries 91
Mean 464.7
Std Dev 0
50
0
−50
−100
−150
pull1D
Entries 91
Mean −0.4449
Std Dev 3.945
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

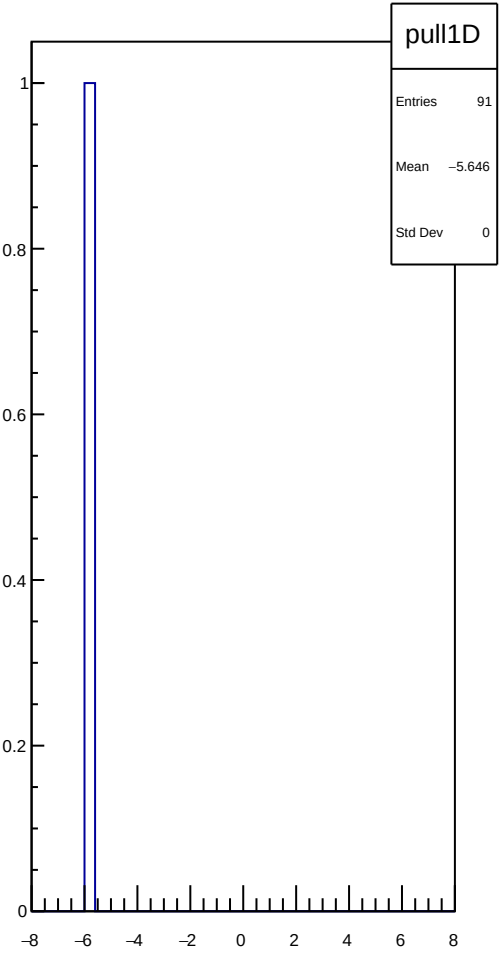

yield_bpm4ecY_rms vs run
χ² / ndf 5.146e+04 / 90
p0 0.01515 ± 1.163e–05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

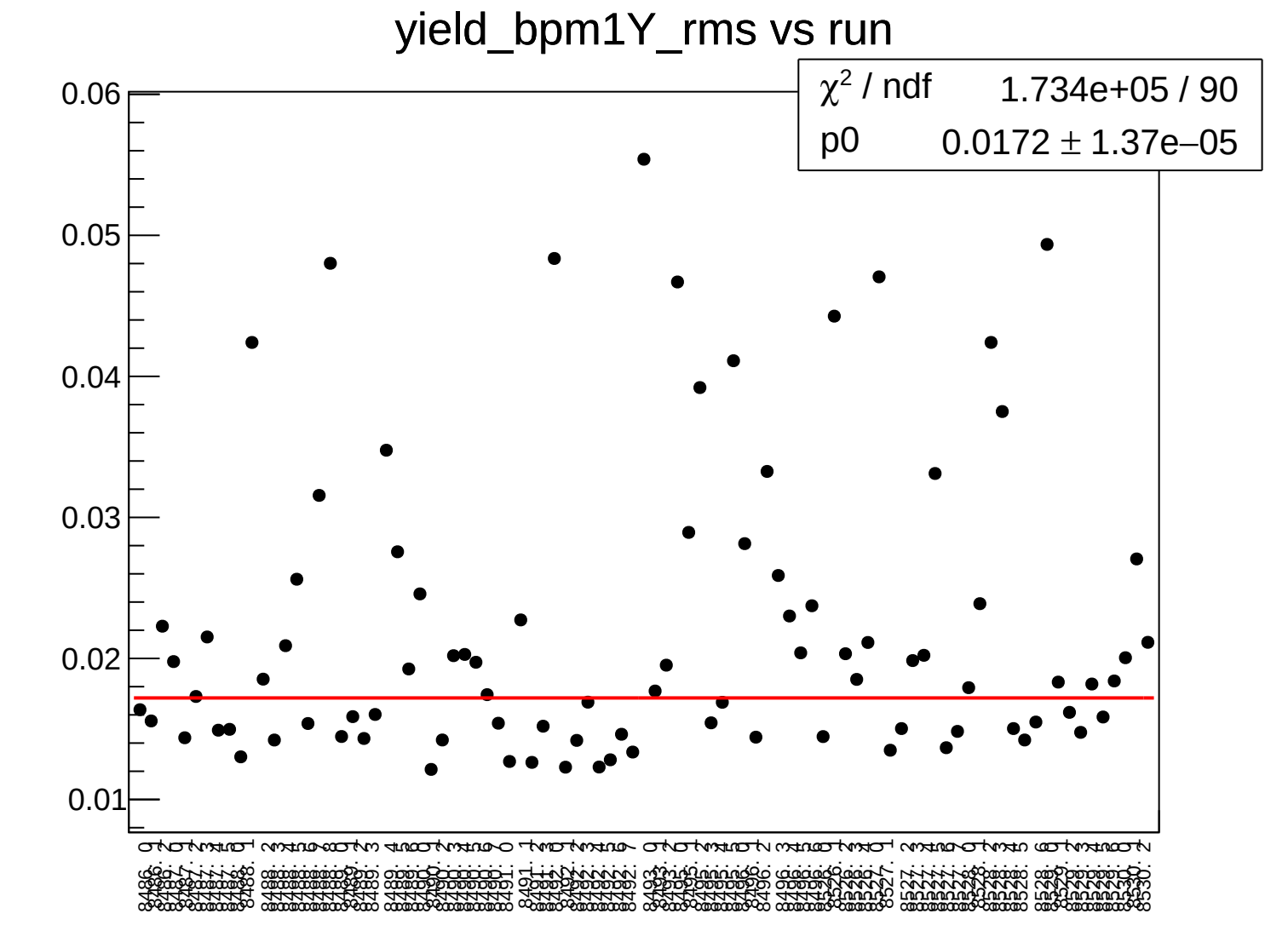

yield_bpm1X_mean vs run
χ² / ndf 1.784e+08 / 90
p0 −1.97 ± 5.222e−05
pull
Entries 91
Mean −1916
Std Dev 0

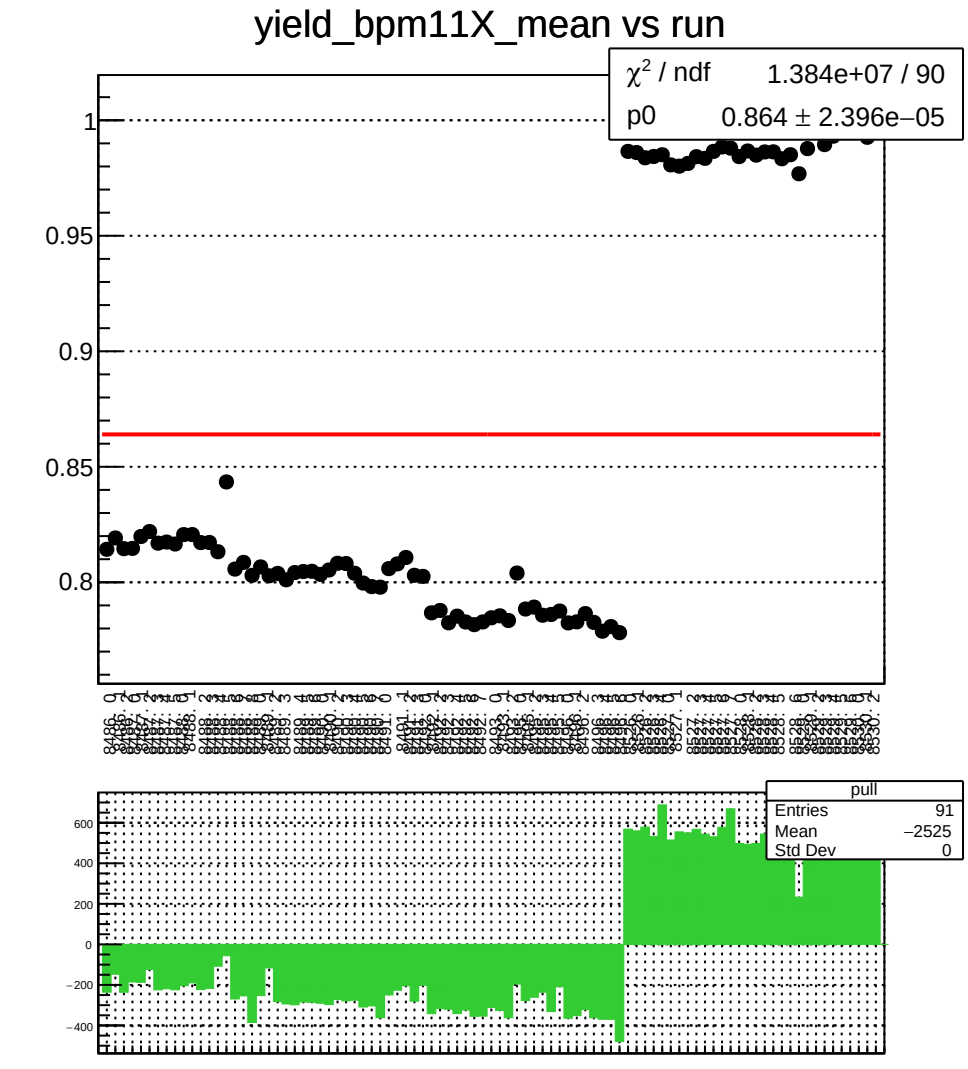

pull1D
Entries 91
Mean 0
Std Dev 0

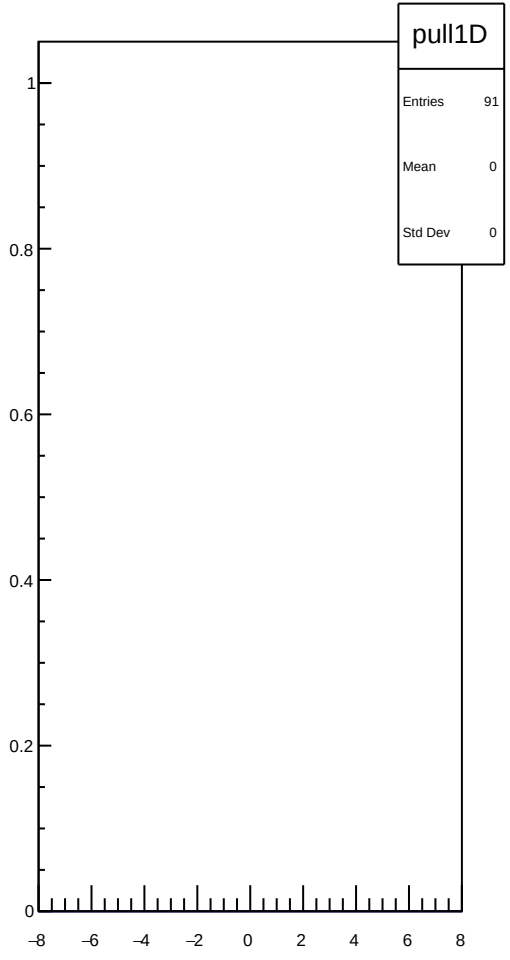

yield_bpm1X_rms vs run
χ² / ndf 7.741e+04 / 90
p0 0.04774 ± 3.692e–05
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04

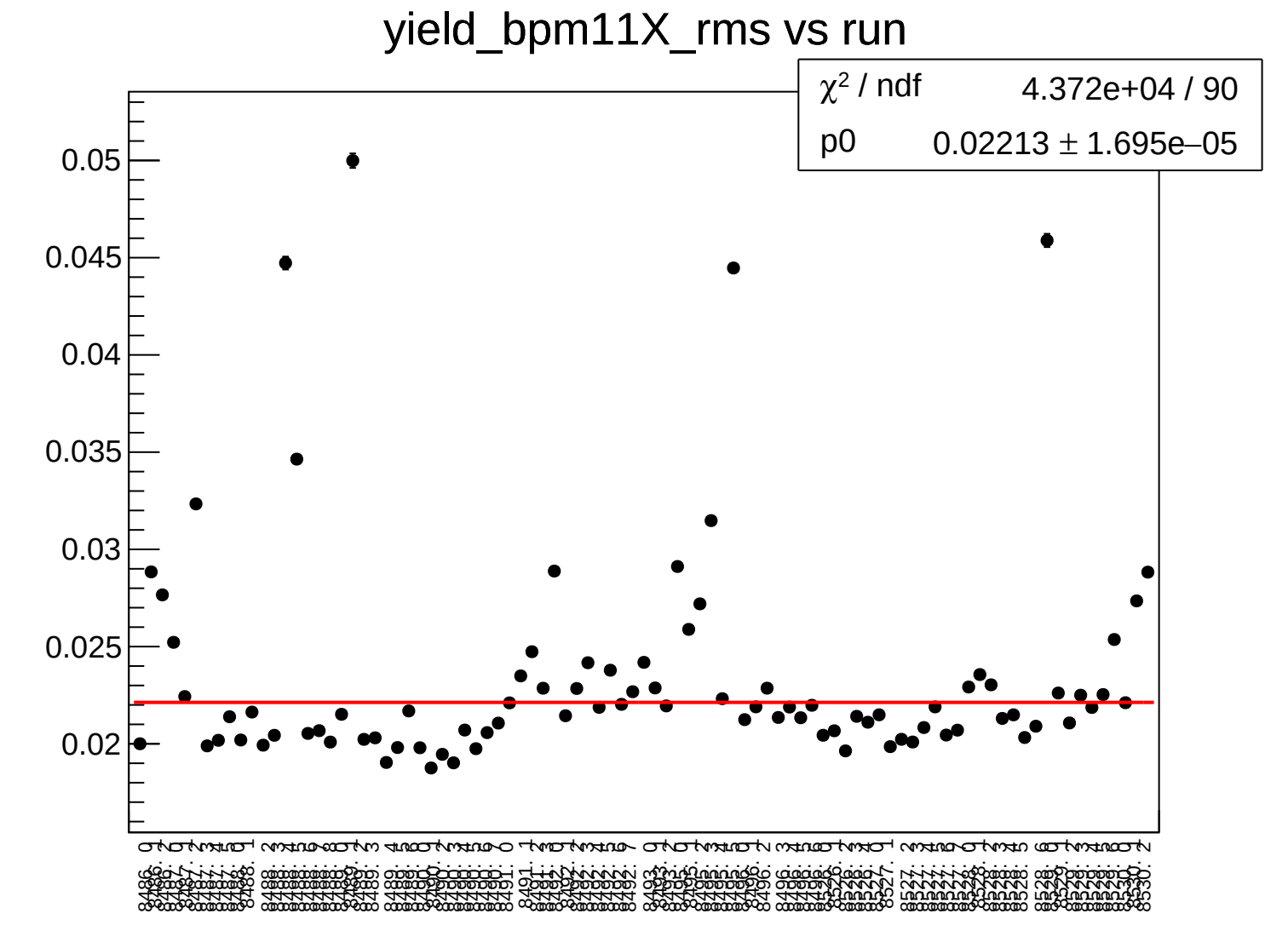

yield_bpm1Y_mean vs run
χ² / ndf 2.112e+07 / 90
p0 2.859 ± 1.938e−05
pull
Entries 91
Mean 307.1
Std Dev 0

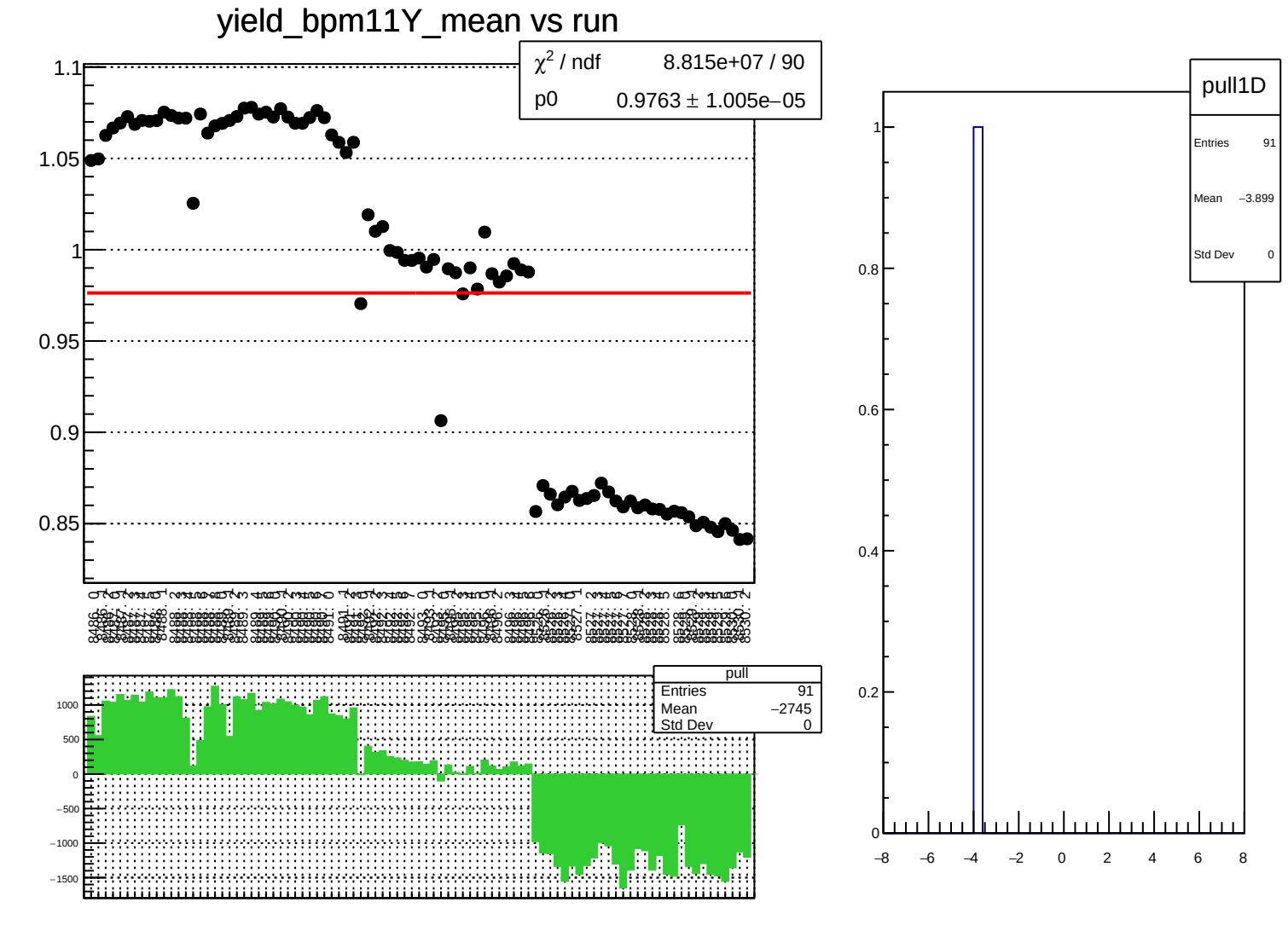

pull1D
Entries 91
Mean −5.646
Std Dev 0

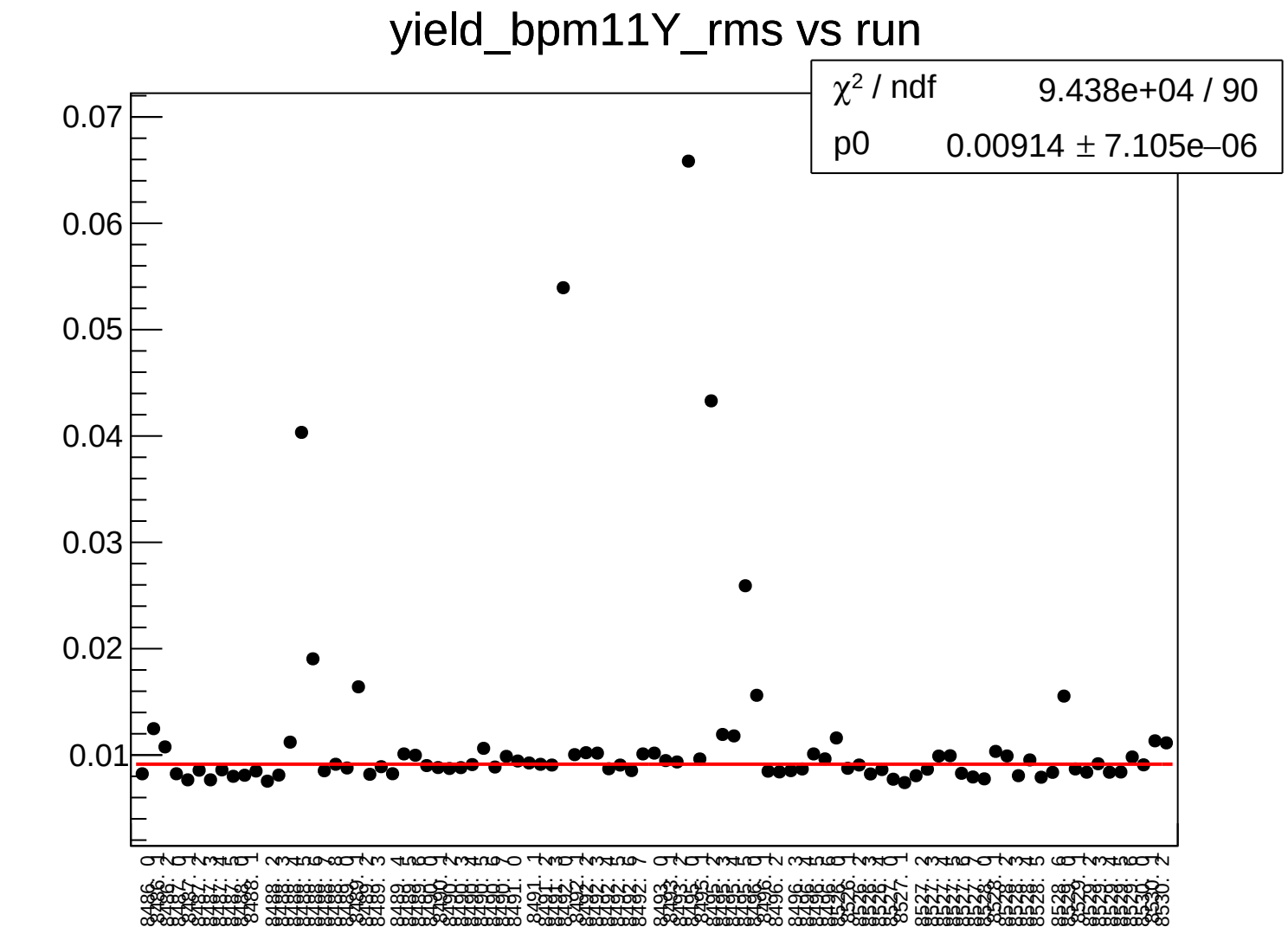

yield_bpm1Y_rms vs run
χ² / ndf 1.734e+05 / 90
p0 0.0172 ± 1.37e−05
0.06
0.05
0.04
0.03
0.02
0.01

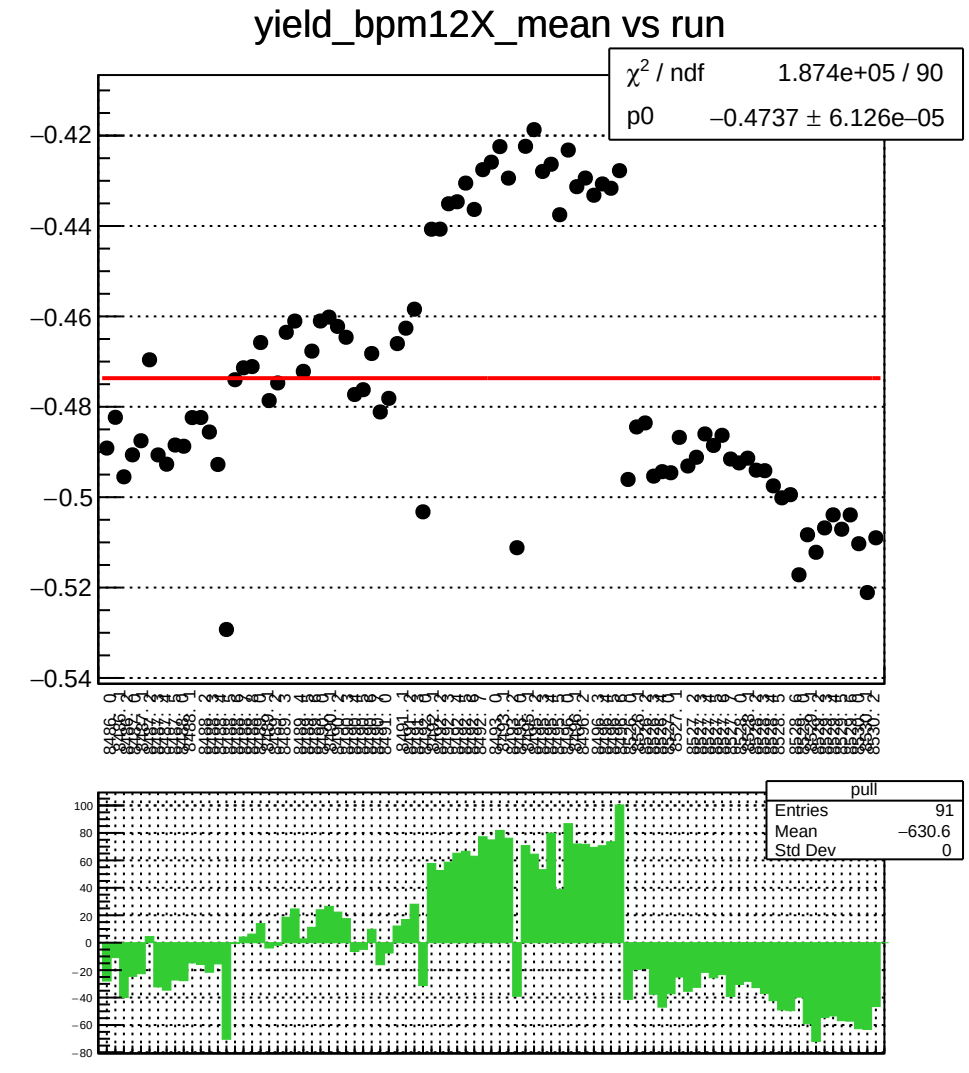

yield_bpm11X_mean vs run
χ² / ndf 1.384e+07 / 90
p0 0.864 ± 2.396e−05
1
0.95
0.9
0.85
0.8
pull
Entries 91
Mean −2525
Std Dev 0
600
400
200
0
−200
−400

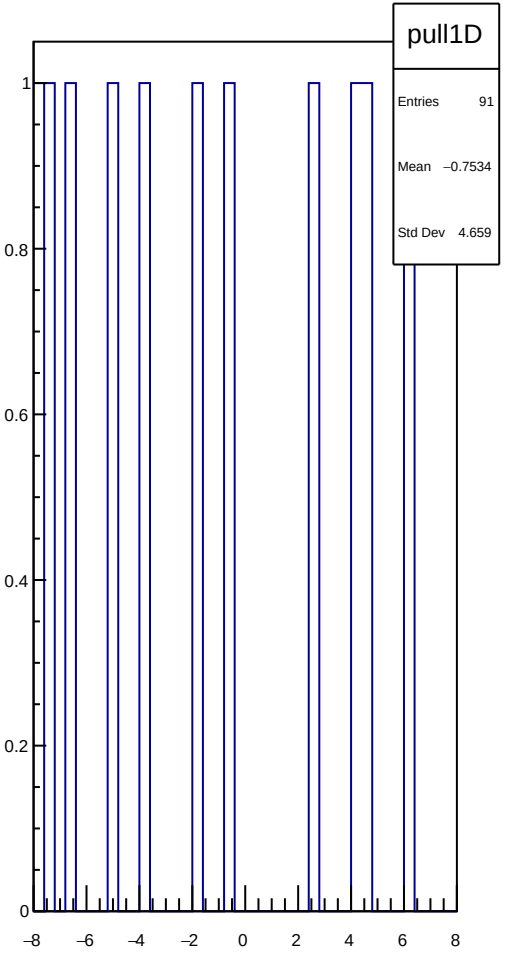

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

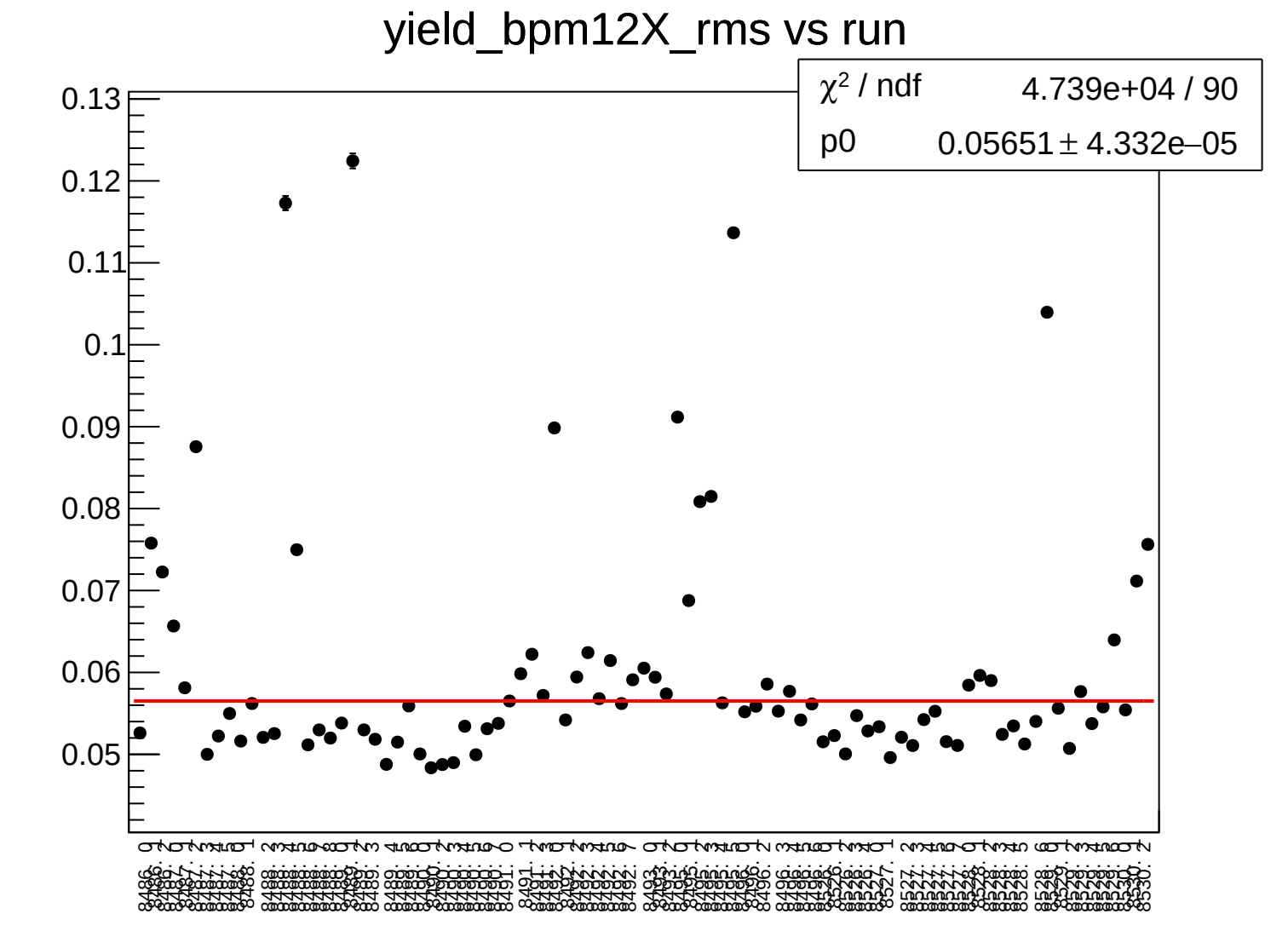

yield_bpm11X_rms vs run
χ² / ndf 4.372e+04 / 90
p0 0.02213 ± 1.695e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02

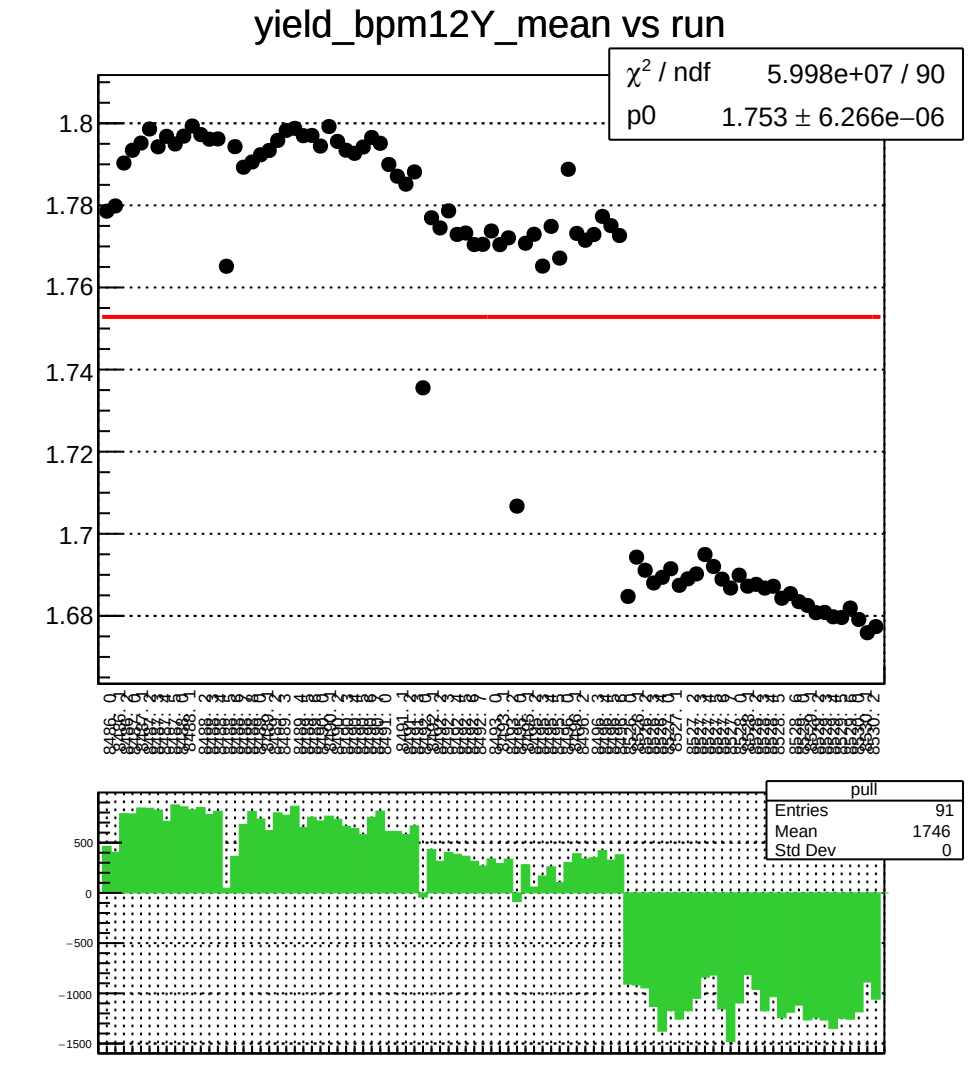

yield_bpm11Y_mean vs run
χ² / ndf 8.815e+07 / 90
p0 0.9763 ± 1.005e−05
1.1
1.05
1
0.95
0.9
0.85
pull
Entries 91
Mean −2745
Std Dev 0
1000
500
0
−500
−1000
−1500
pull1D
Entries 91
Mean −3.899
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

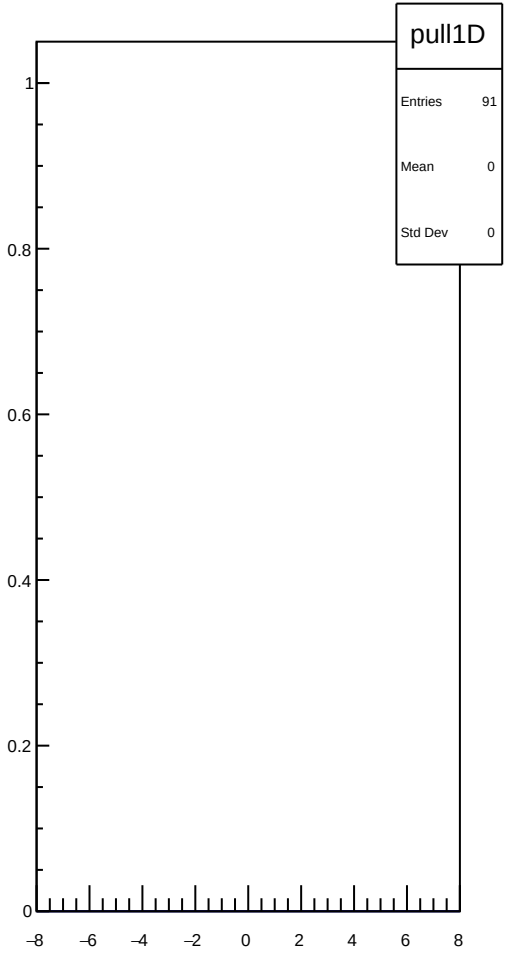

yield_bpm11Y_rms vs run
χ² / ndf 9.438e+04 / 90
p0 0.00914 ± 7.105e–06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

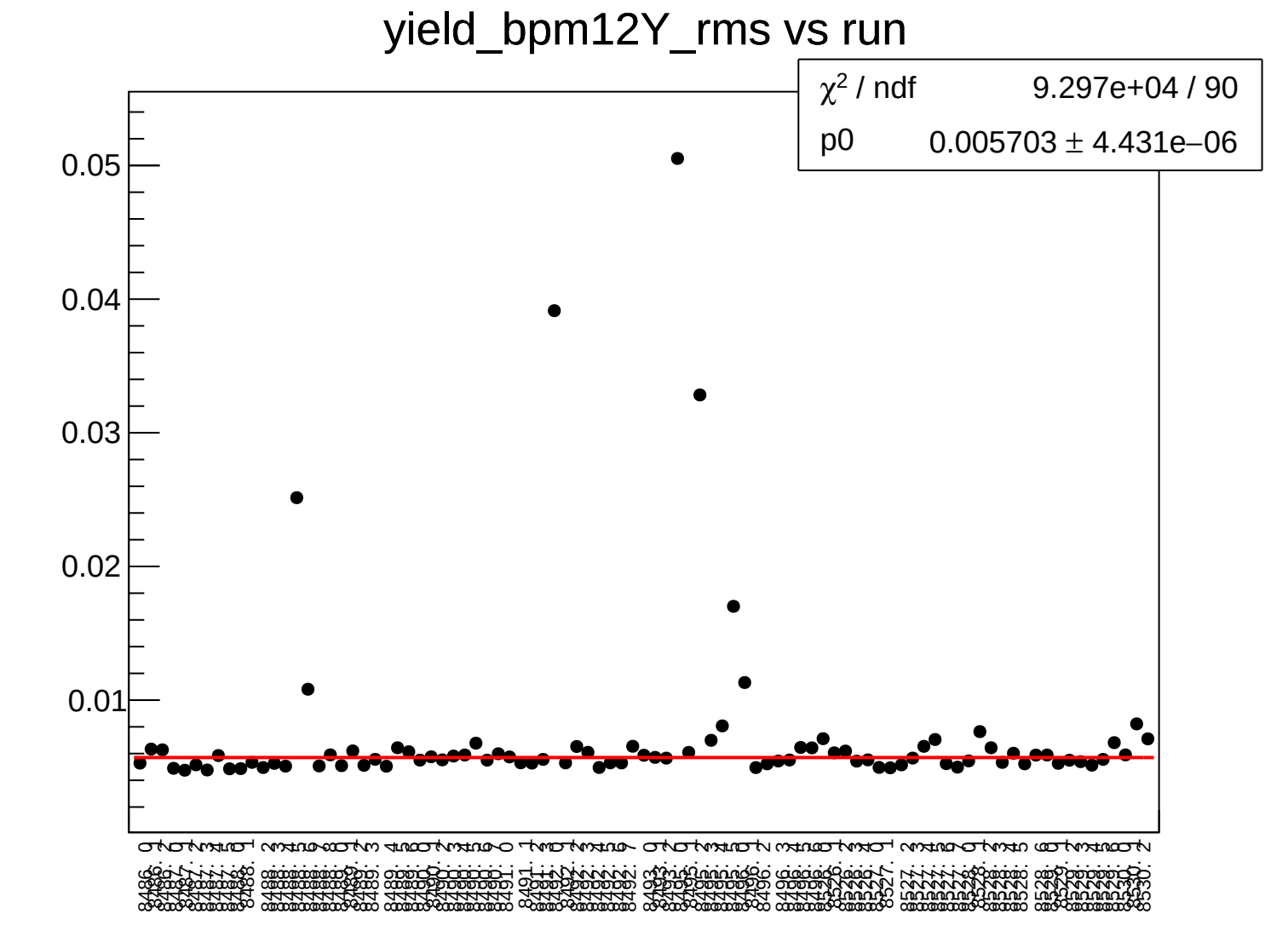

yield_bpm12X_mean vs run
χ² / ndf 1.874e+05 / 90
p0 −0.4737 ± 6.126e−05
−0.42
−0.44
−0.46
−0.48
−0.5
−0.52
−0.54
pull
Entries 91
Mean −630.6
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80

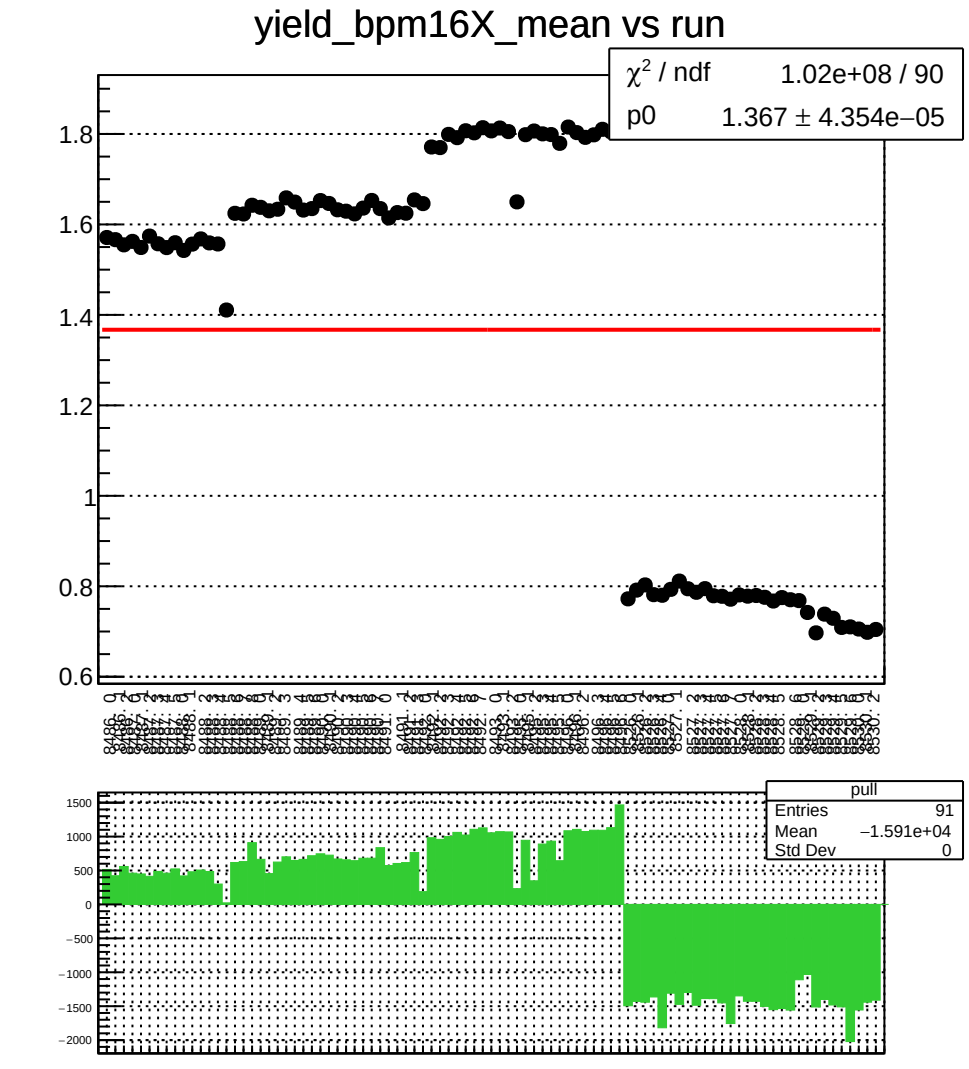

pull1D
Entries 91
Mean −0.7534
Std Dev 4.659
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

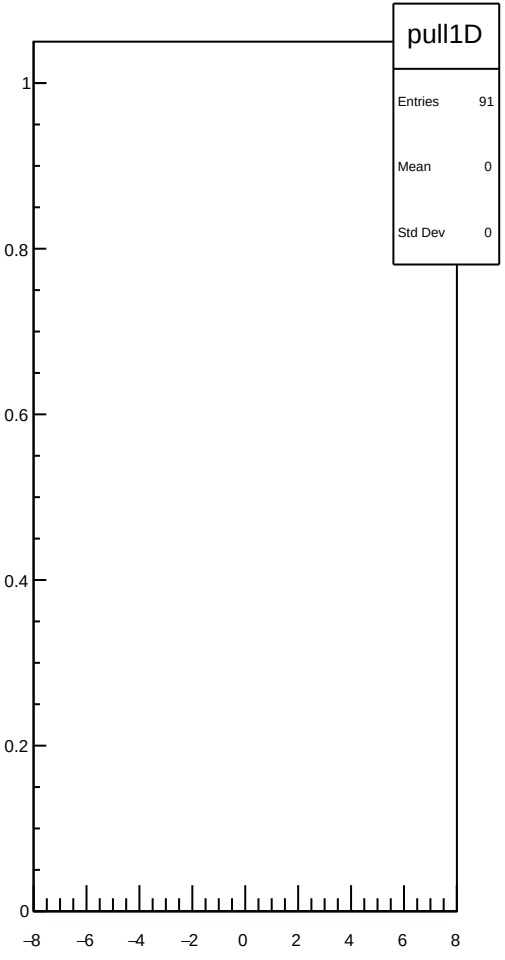

yield_bpm12X_rms vs run
χ² / ndf 4.739e+04 / 90
p0 0.05651 ± 4.332e–05
0.13
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05

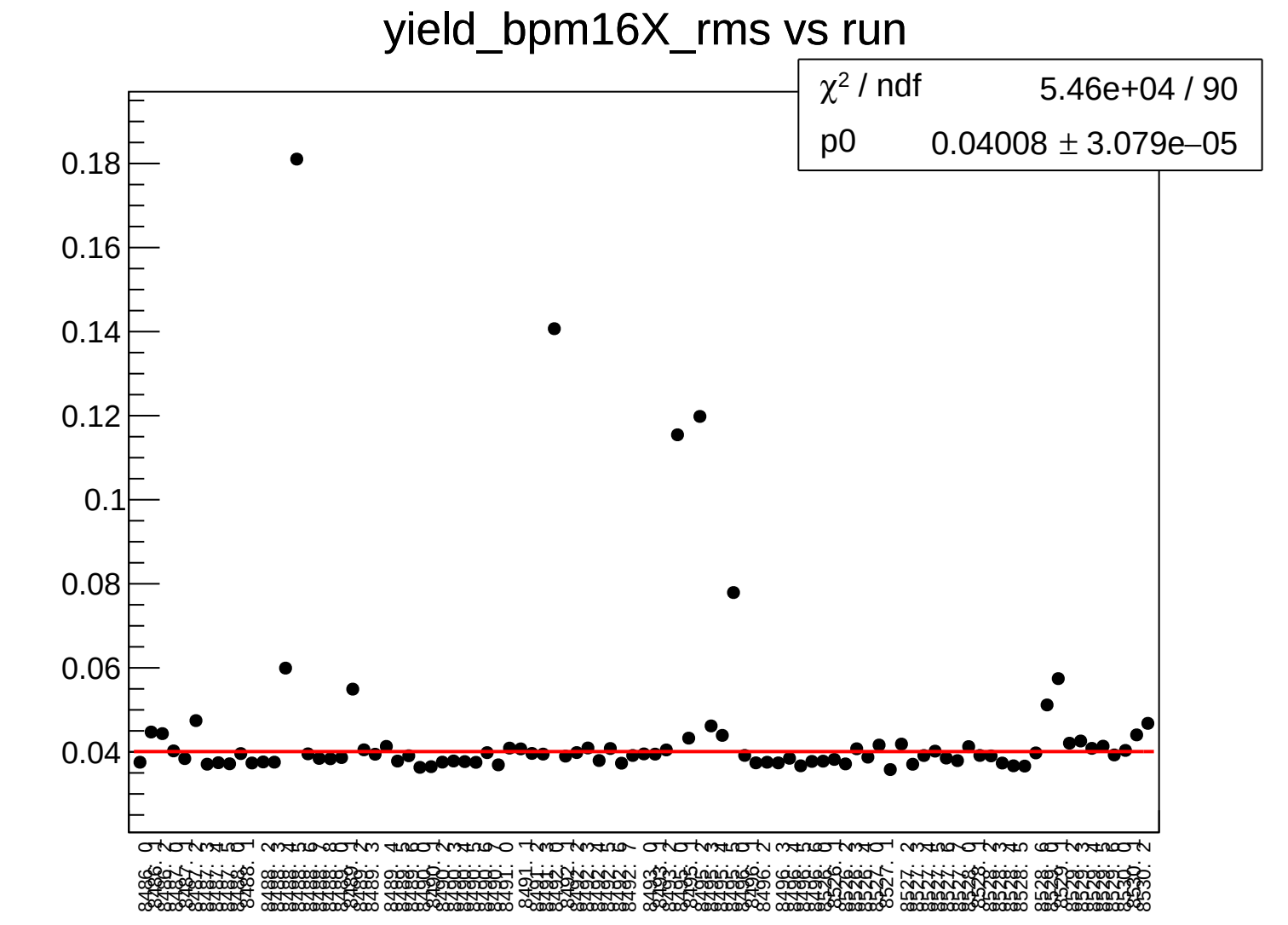

yield_bpm12Y_mean vs run
χ² / ndf 5.998e+07 / 90
p0 1.753 ± 6.266e−06
1.8
1.78
1.76
1.74
1.72
1.7
1.68
pull
Entries 91
Mean 1746
Std Dev 0
500
0
−500
−1000
−1500

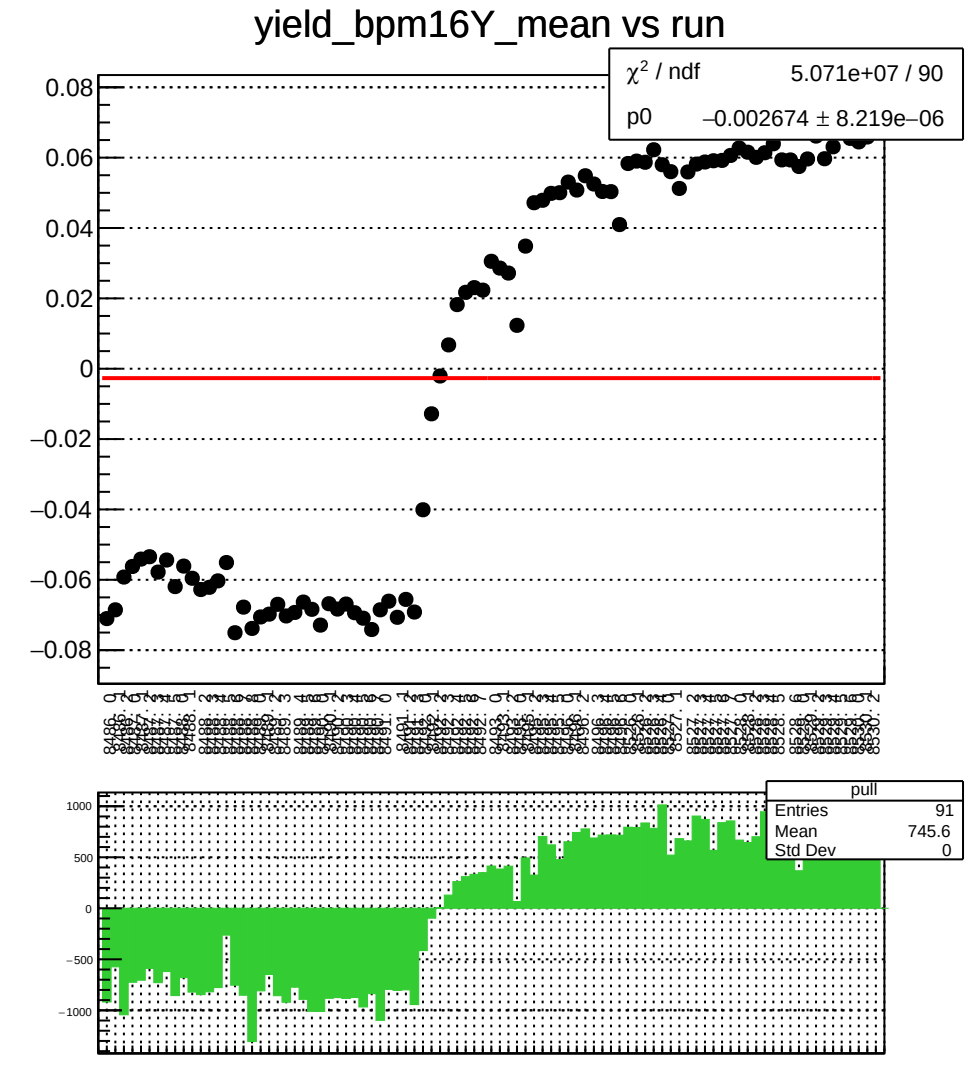

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

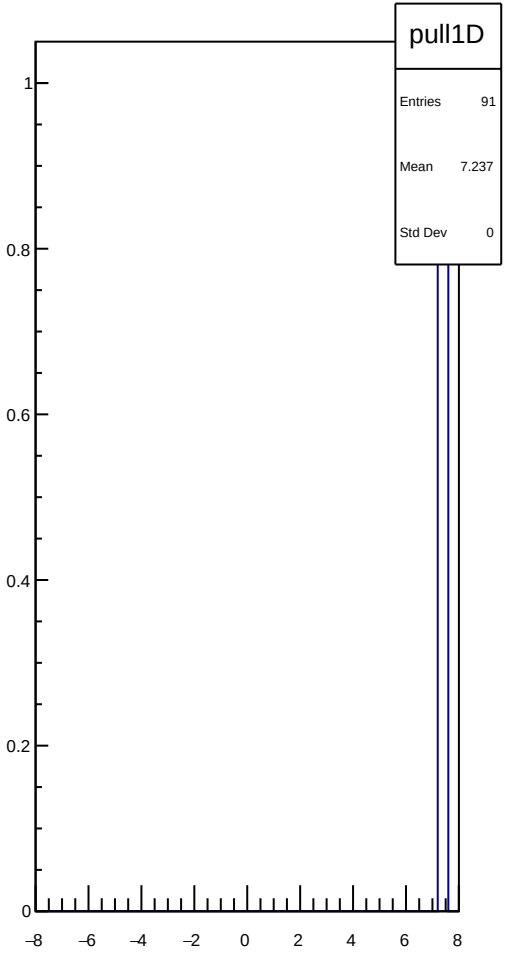

yield_bpm12Y_rms vs run
χ^2 / ndf 9.297e+04 / 90
p0 0.005703 ± 4.431e−06
0.05
0.04
0.03
0.02
0.01

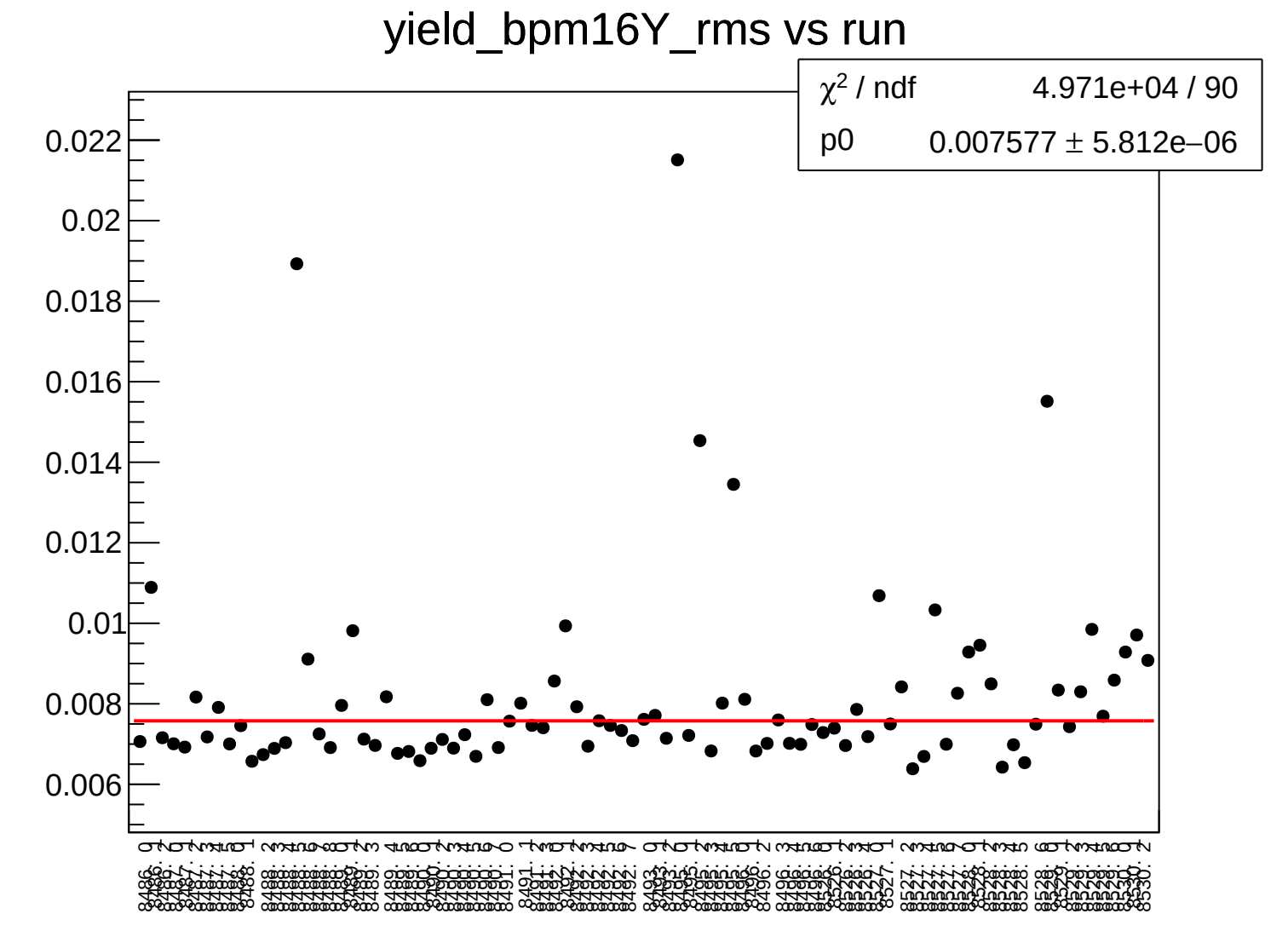

yield_bpm16X_mean vs run
χ² / ndf 1.02e+08 / 90
p0 1.367 ± 4.354e−05
pull
Entries 91
Mean −1.591e+04
Std Dev 0

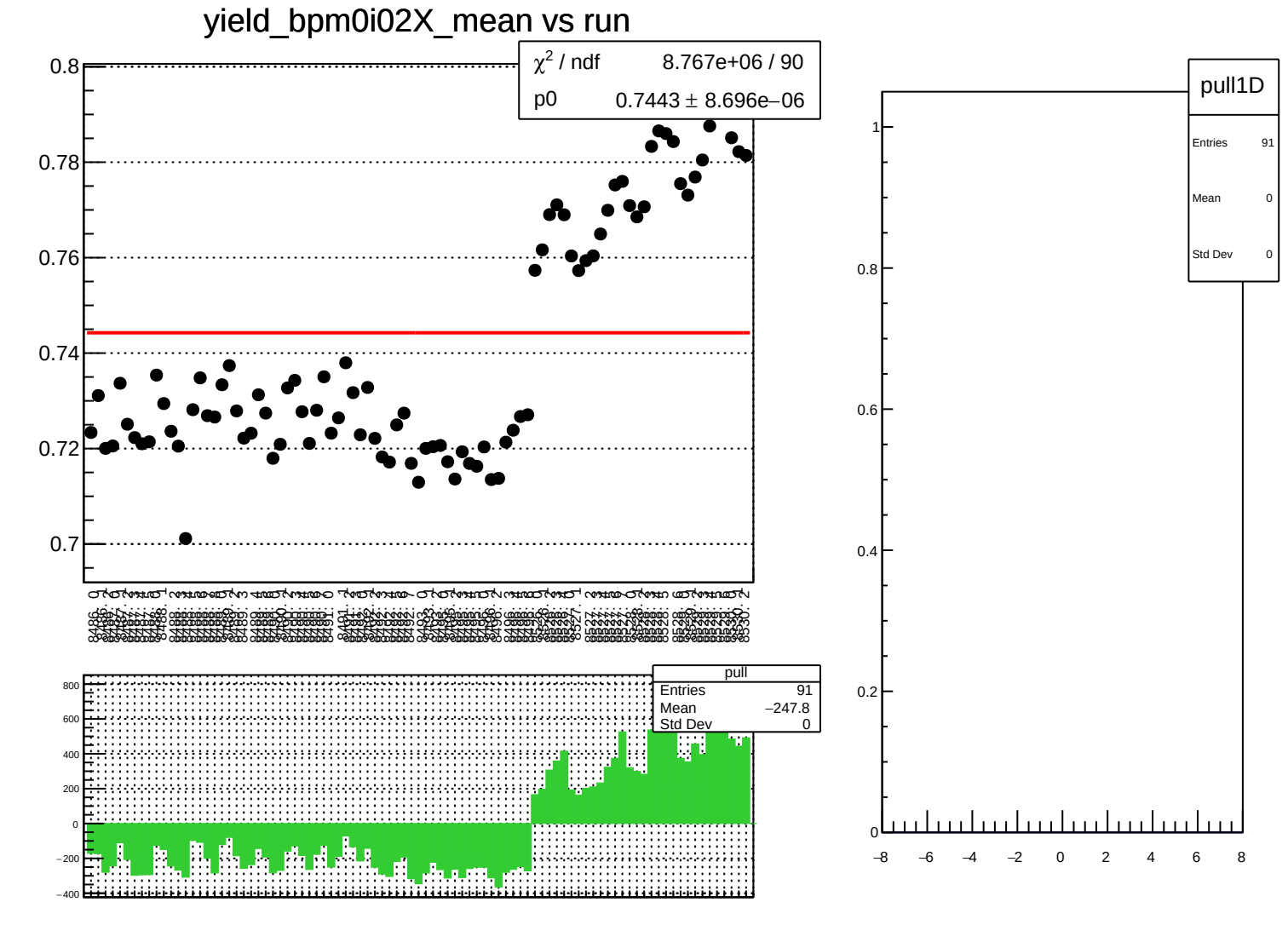

pull1D
Entries 91
Mean 0
Std Dev 0

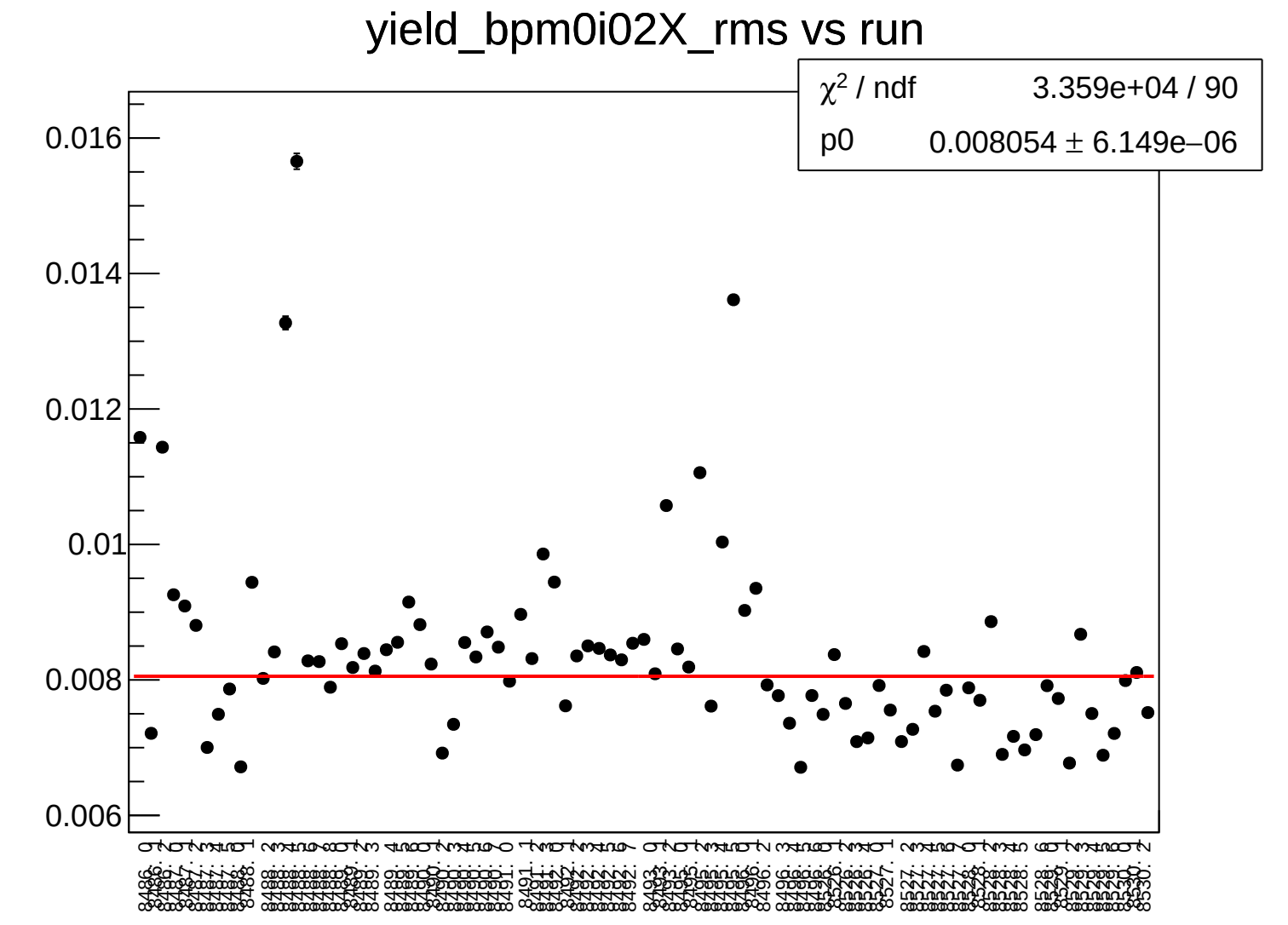

yield_bpm16X_rms vs run
χ² / ndf 5.46e+04 / 90
p0 0.04008 ± 3.079e–05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04

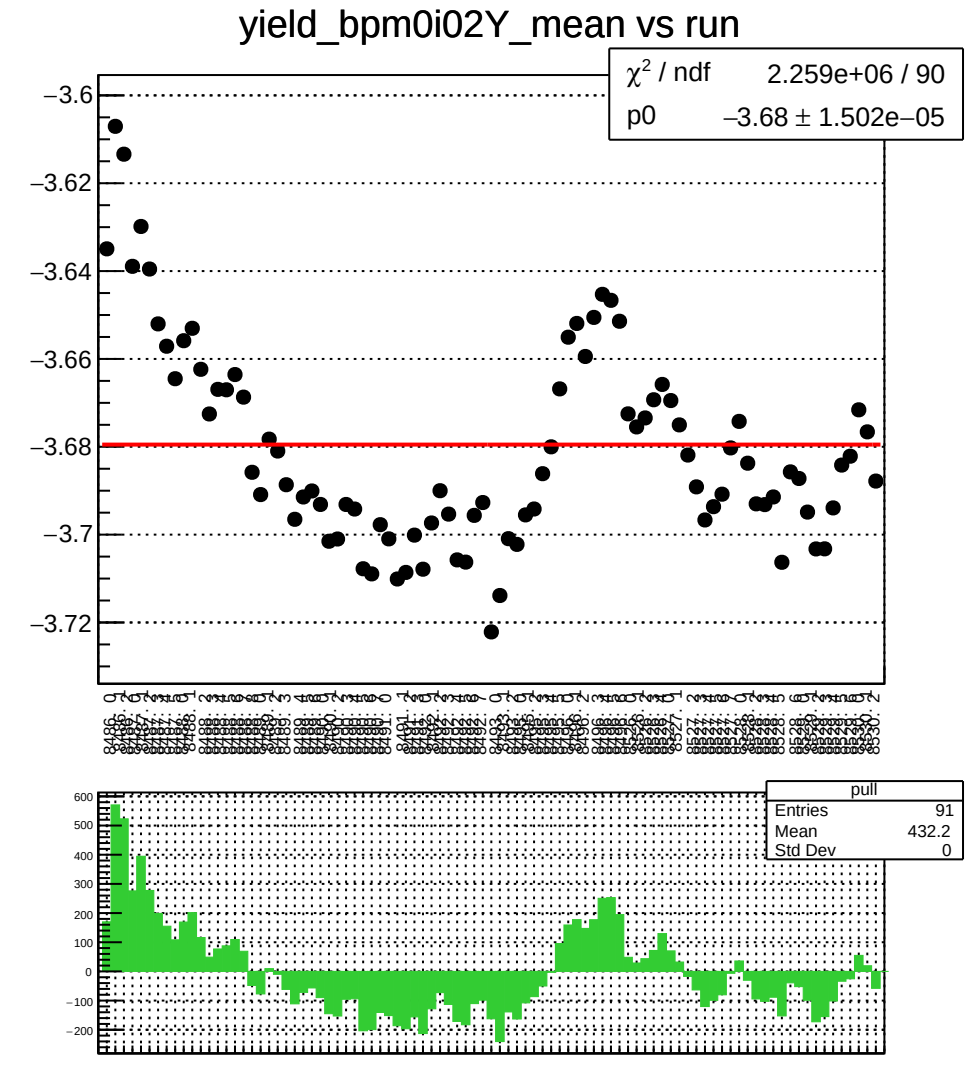

yield_bpm16Y_mean vs run
χ² / ndf 5.071e+07 / 90
p0 −0.002674 ± 8.219e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 91
Mean 745.6
Std Dev 0
1000
500
0
−500
−1000

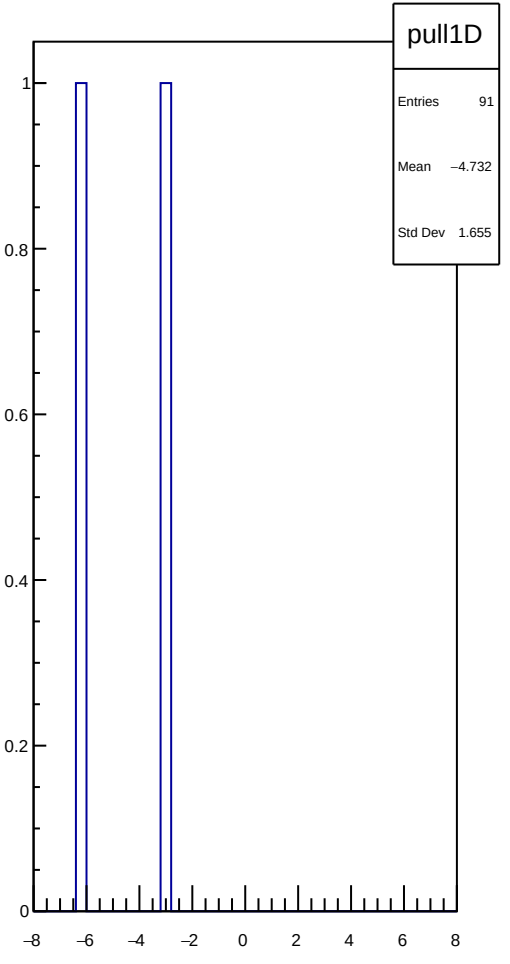

pull1D
Entries 91
Mean 7.237
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

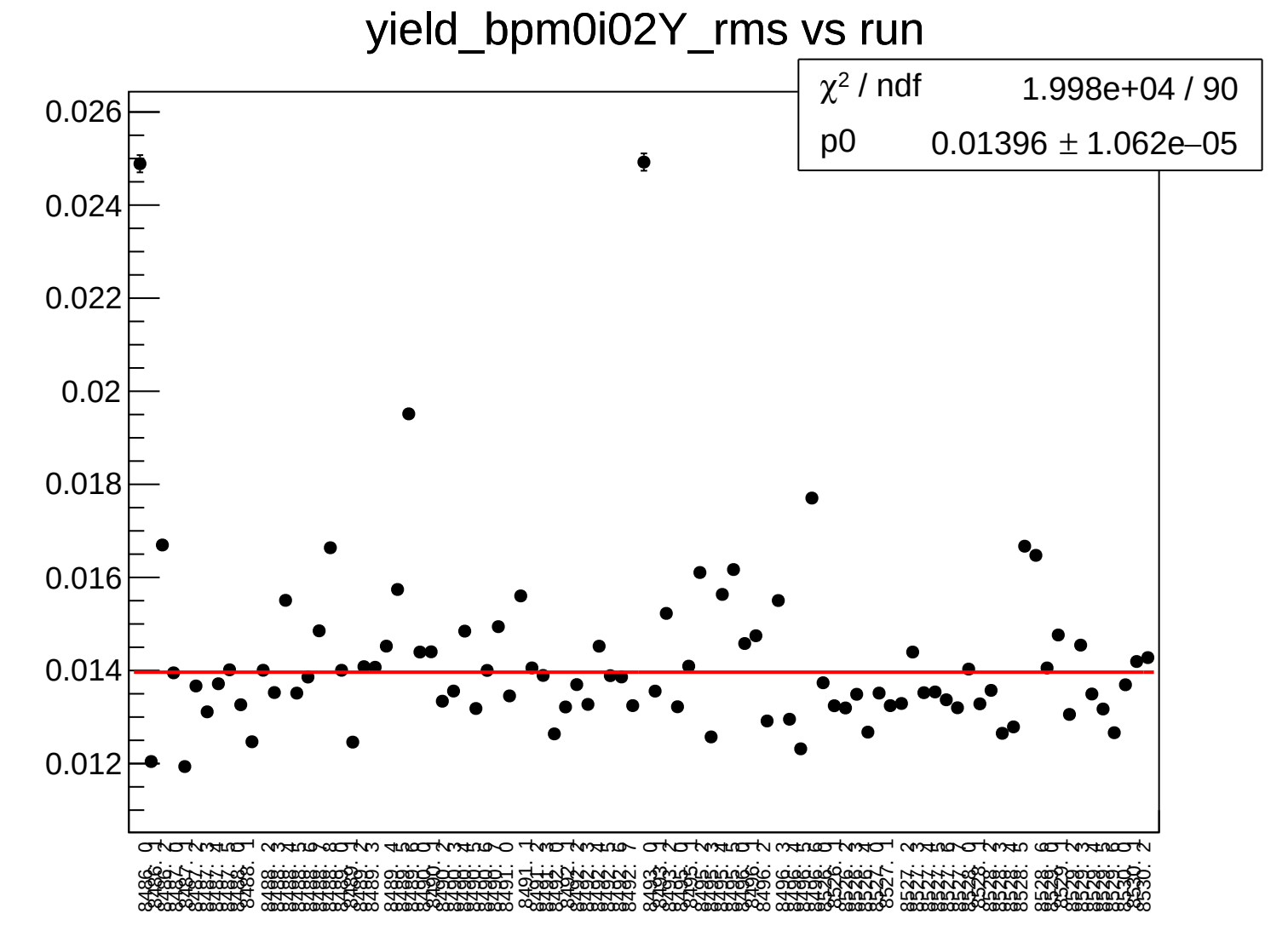

yield_bpm16Y_rms vs run
χ^2 / ndf 4.971e+04 / 90
p0 0.007577 ± 5.812e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

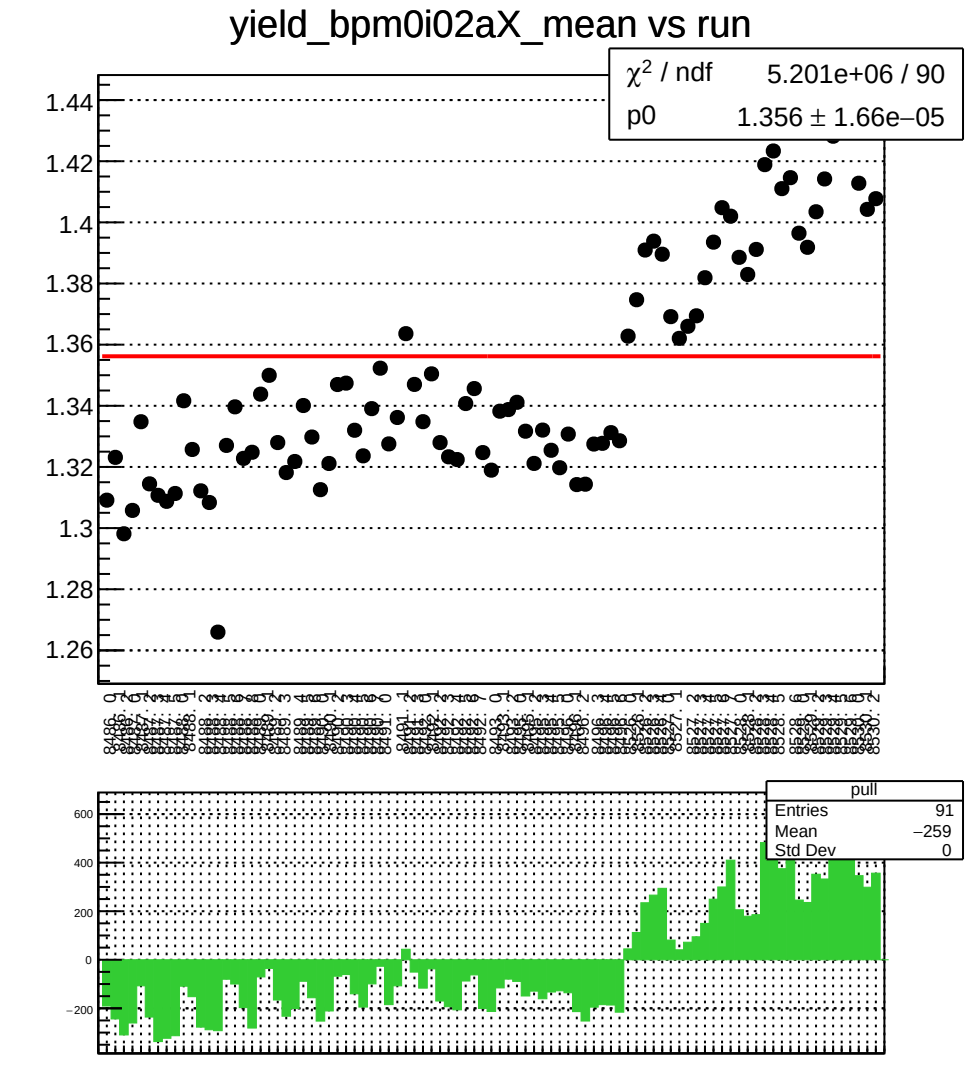

yield_bpm0i02X_mean vs run
χ² / ndf 8.767e+06 / 90
p0 0.7443 ± 8.696e−06
0.8
0.78
0.76
0.74
0.72
0.7
pull
Entries 91
Mean −247.8
Std Dev 0
800
600
400
200
0
−200
−400
pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

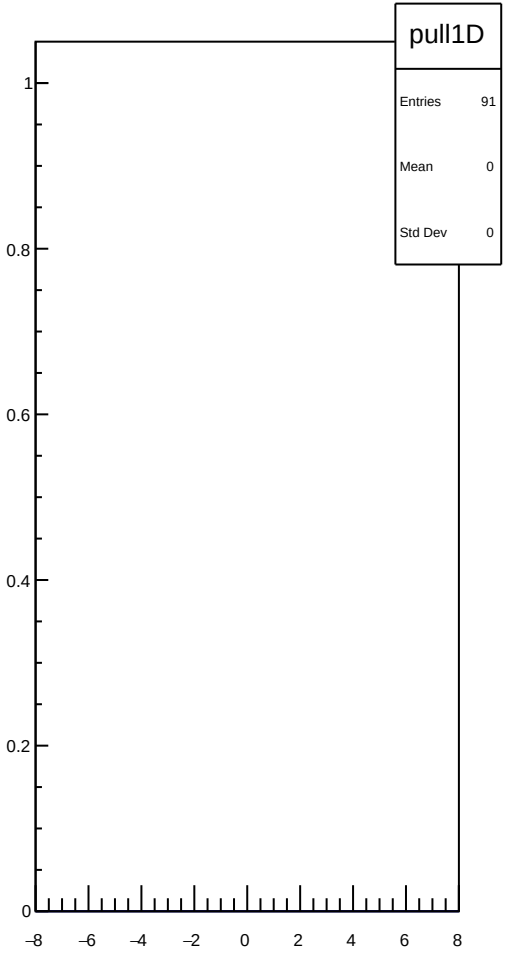

yield_bpm0i02X_rms vs run
χ^2 / ndf 3.359e+04 / 90
p0 0.008054 ± 6.149e−06
0.016
0.014
0.012
0.01
0.008
0.006

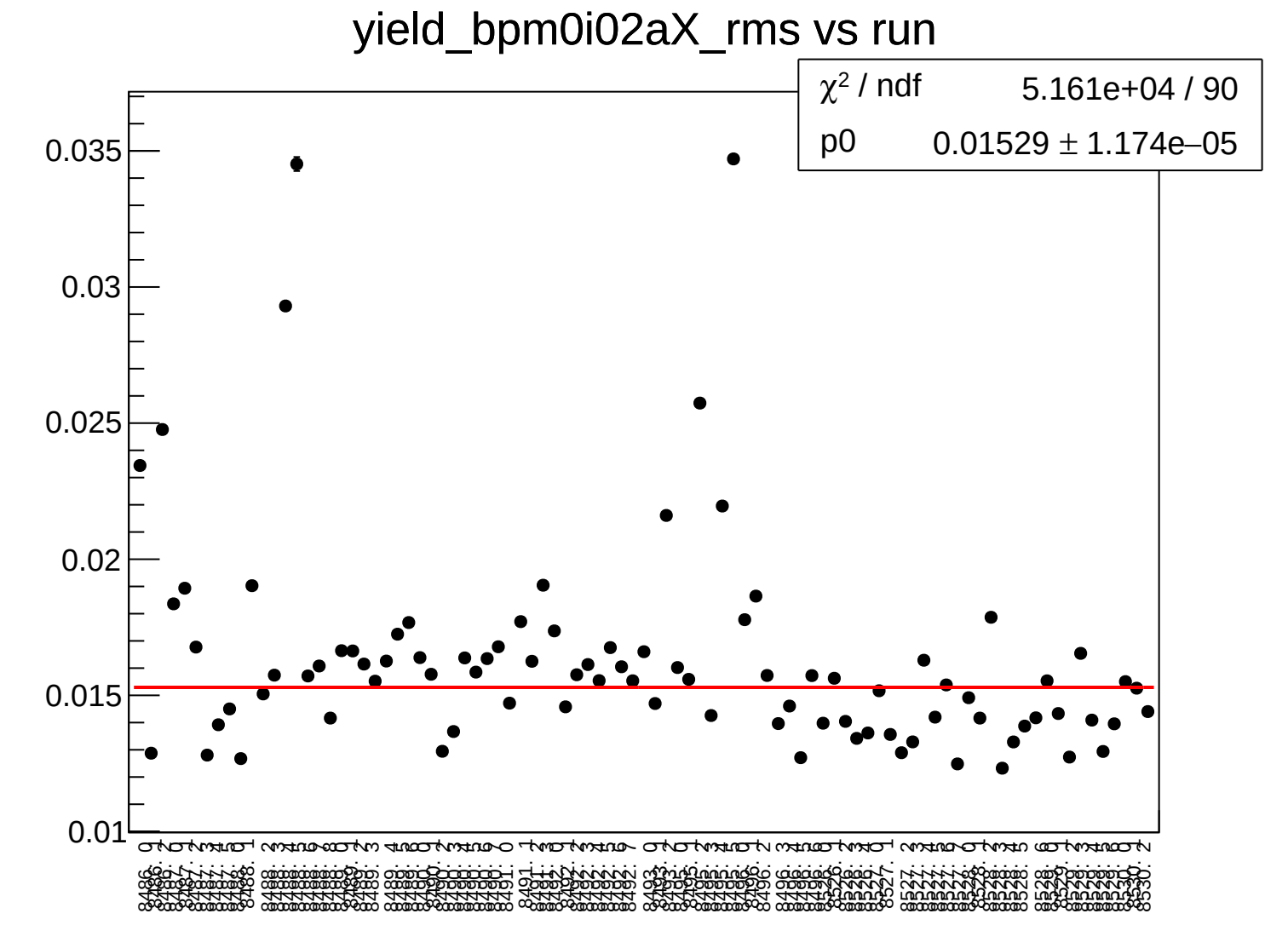

yield_bpm0i02Y_mean vs run
χ² / ndf 2.259e+06 / 90
p0 −3.68 ± 1.502e−05
−3.6
−3.62
−3.64
−3.66
−3.68
−3.7
−3.72
pull
Entries 91
Mean 432.2
Std Dev 0
600
500
400
300
200
100
0
−100
−200

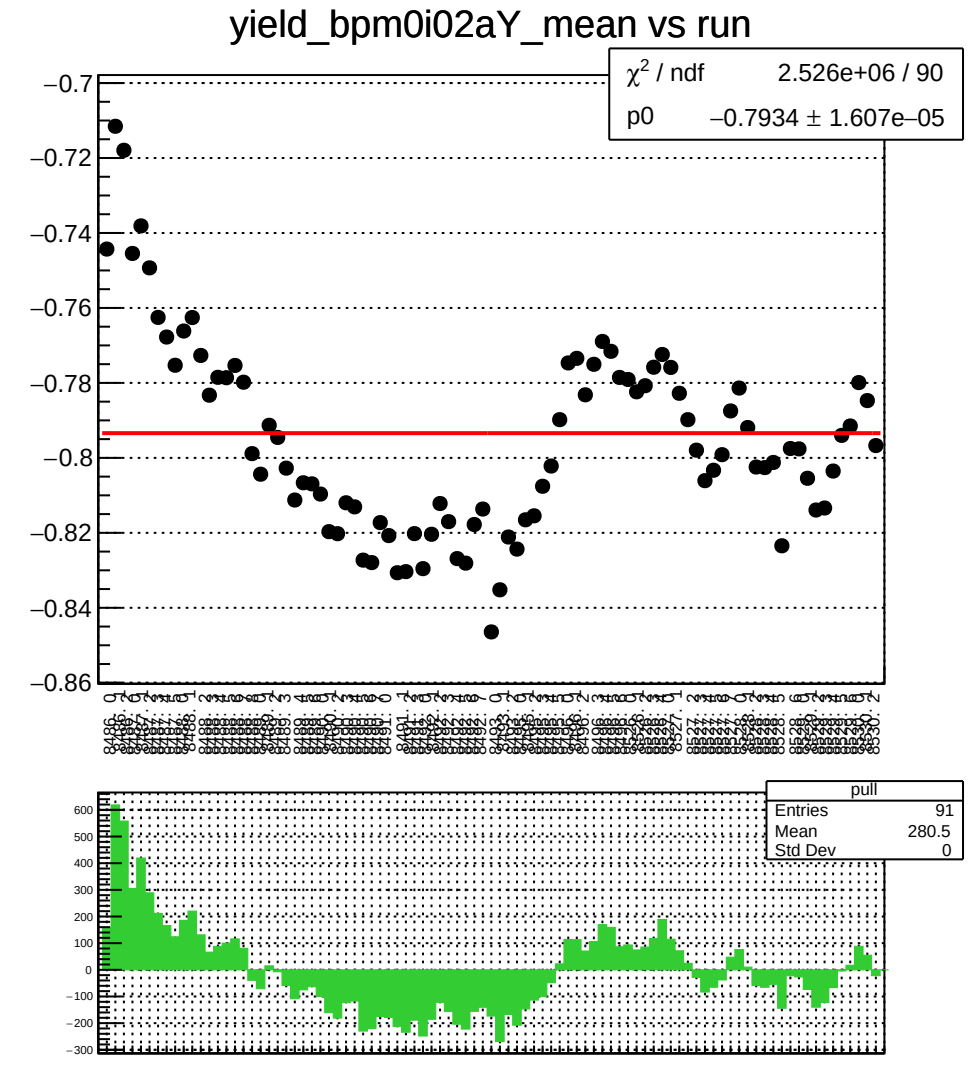

pull1D
Entries 91
Mean −4.732
Std Dev 1.655
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

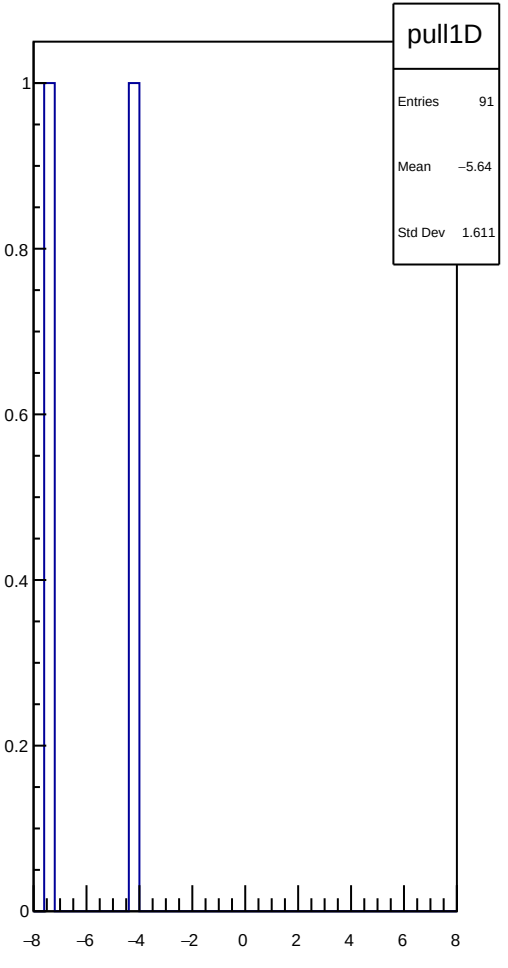

yield_bpm0i02Y_rms vs run
χ² / ndf 1.998e+04 / 90
p0 0.01396 ± 1.062e–05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012

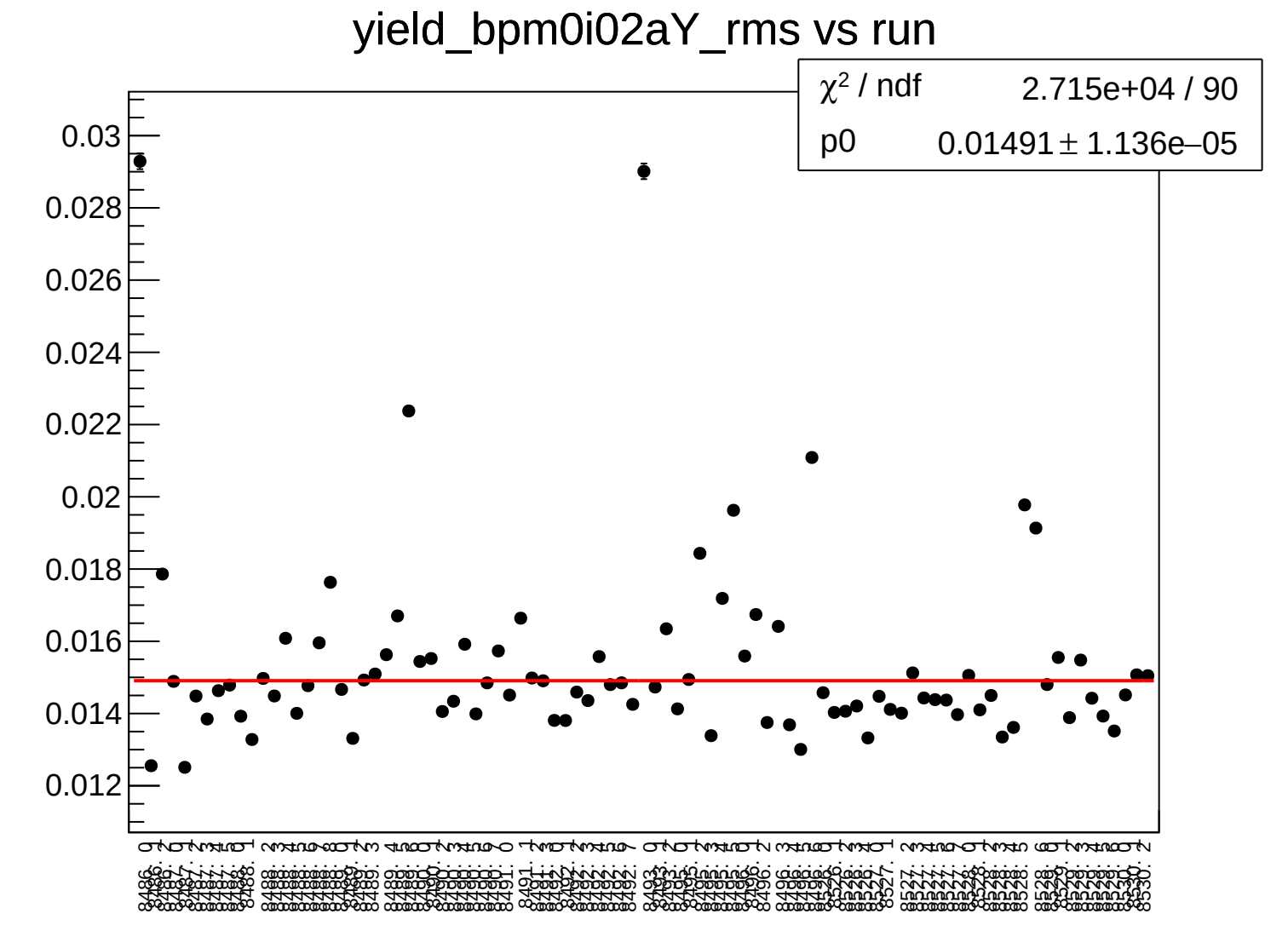

yield_bpm0i02aX_mean vs run
χ² / ndf 5.201e+06 / 90
p0 1.356 ± 1.66e−05
1.44
1.42
1.4
1.38
1.36
1.34
1.32
1.3
1.28
1.26
pull
Entries 91
Mean −259
Std Dev 0
600
400
200
0
−200

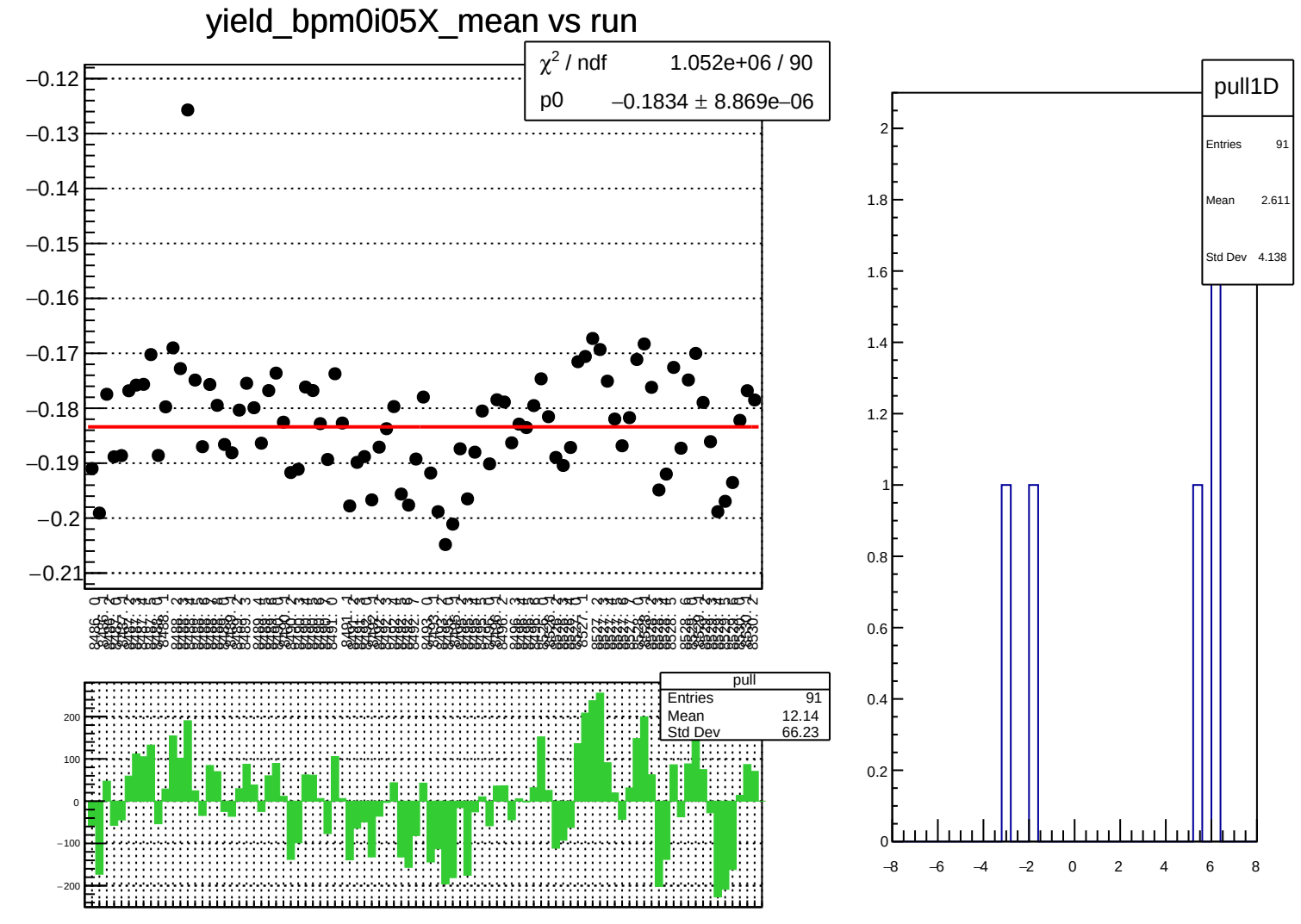

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

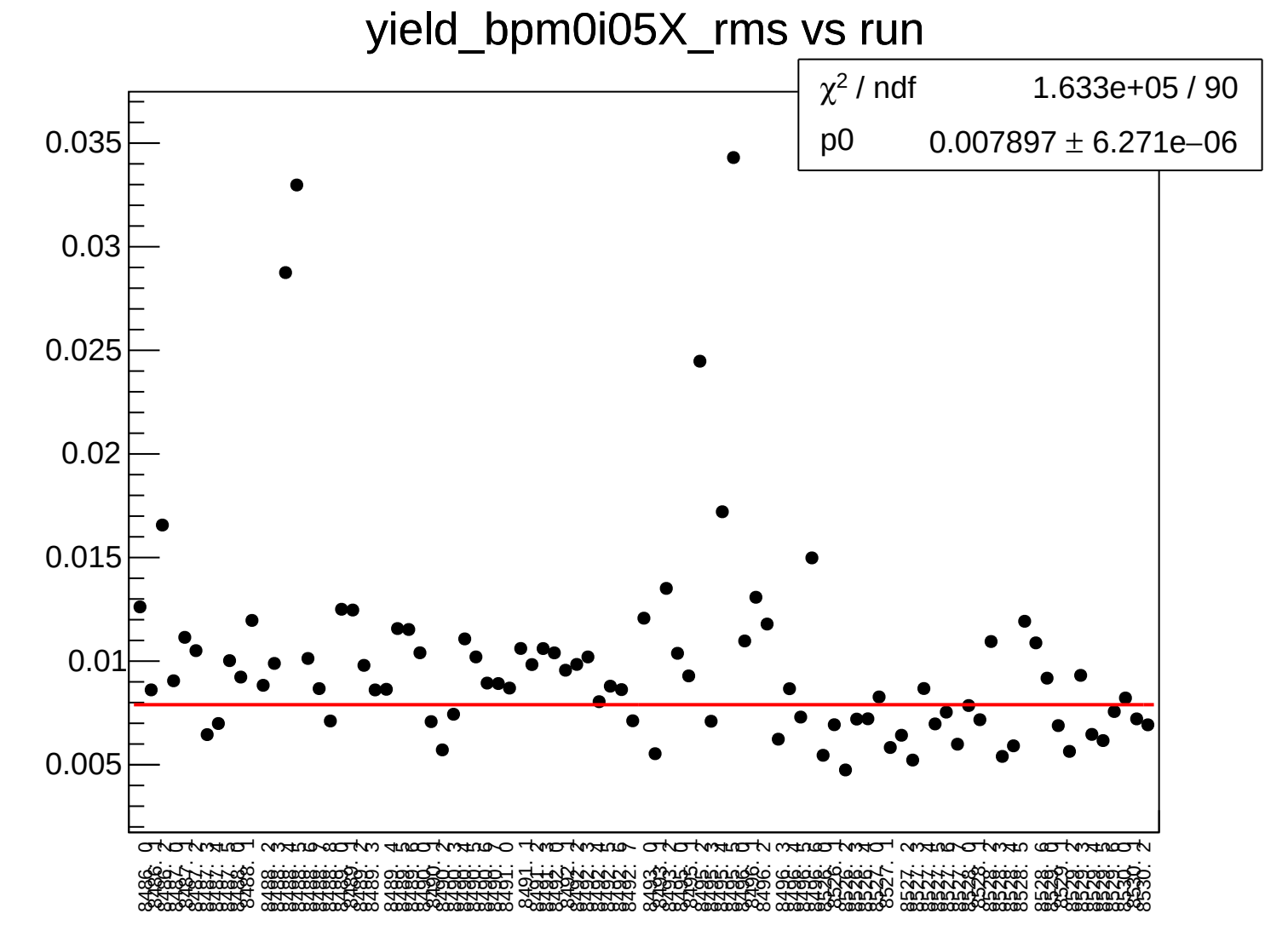

yield_bpm0i02aX_rms vs run
χ² / ndf 5.161e+04 / 90
p0 0.01529 ± 1.174e–05
0.035
0.03
0.025
0.02
0.015
0.01

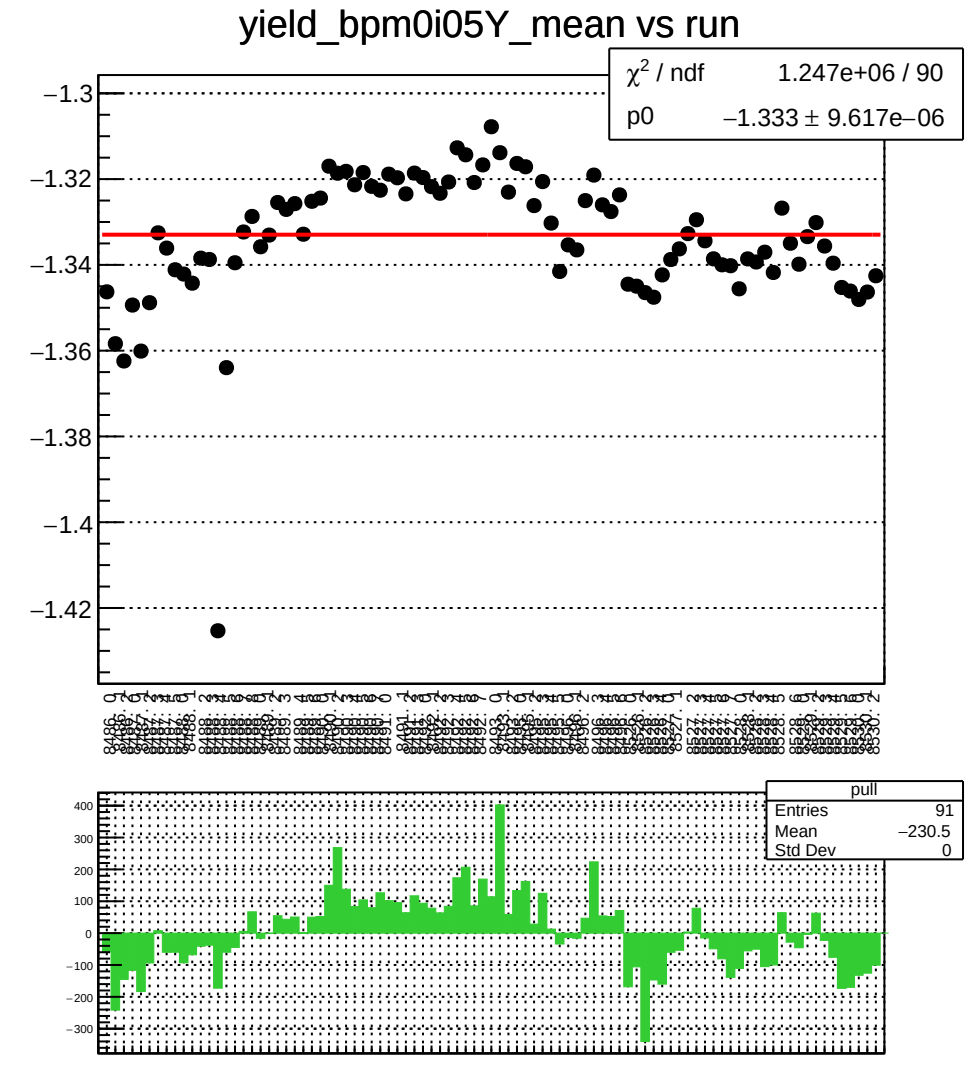

yield_bpm0i02aY_mean vs run
χ² / ndf 2.526e+06 / 90
p0 −0.7934 ± 1.607e−05
pull
Entries 91
Mean 280.5
Std Dev 0

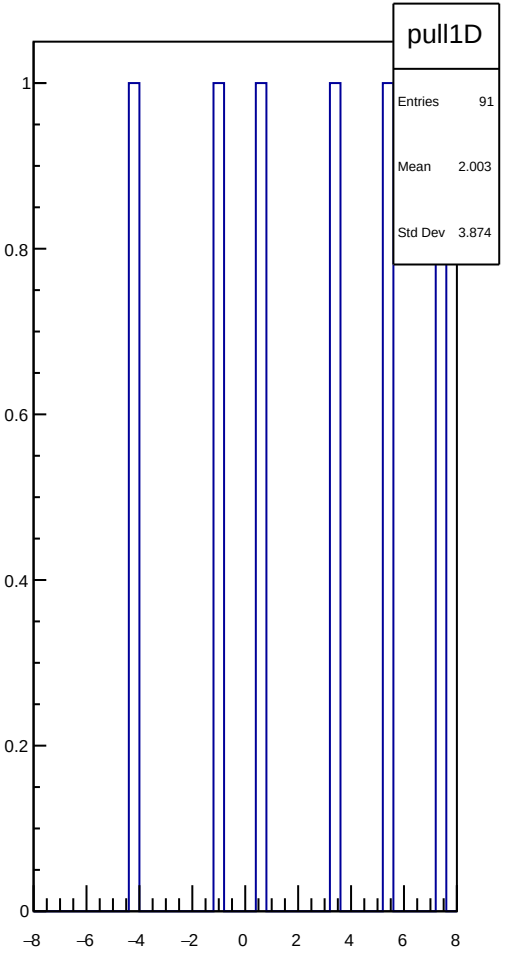

pull1D
Entries 91
Mean −5.64
Std Dev 1.611

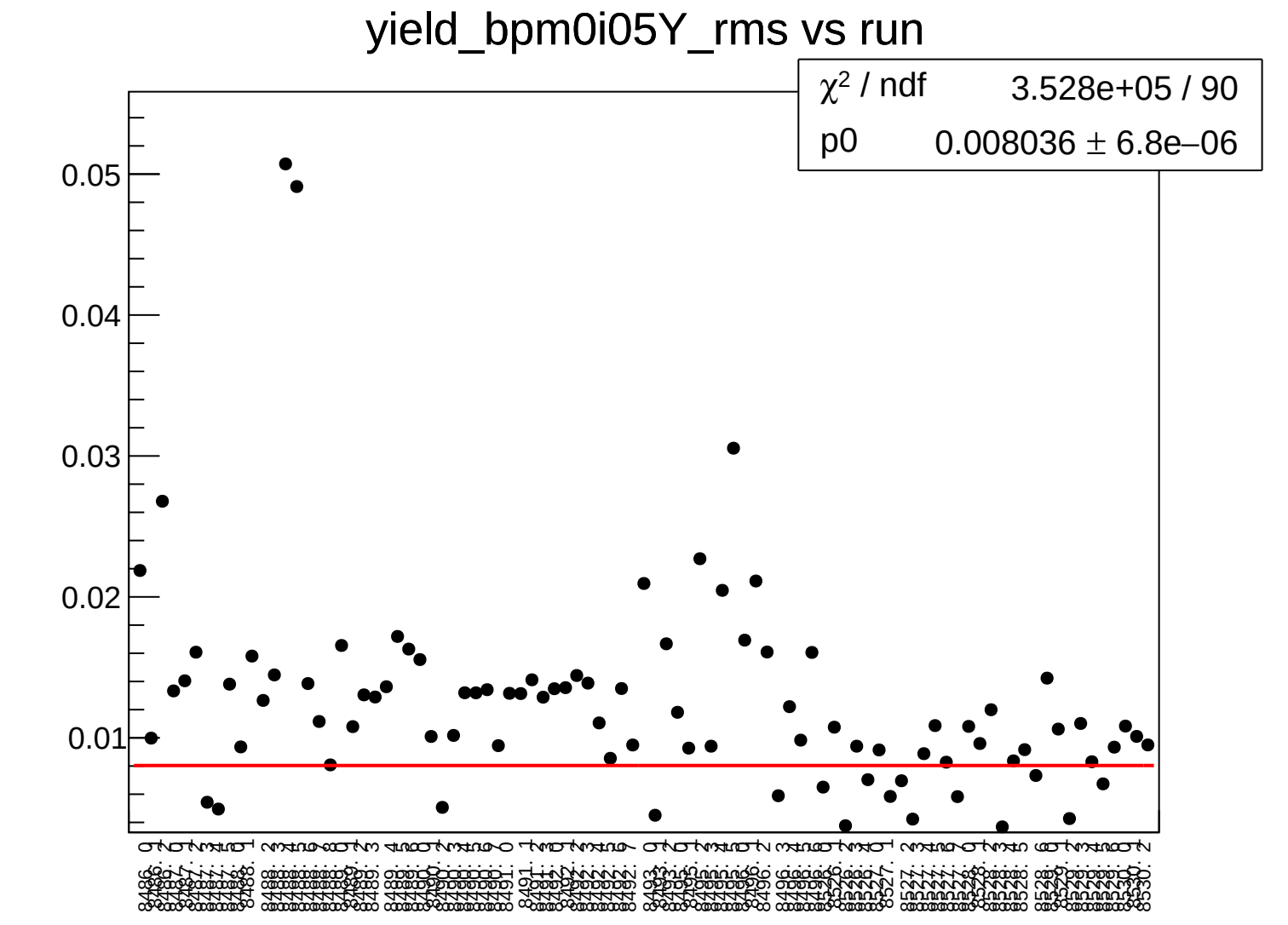

yield_bpm0i02aY_rms vs run
χ² / ndf 2.715e+04 / 90
p0 0.01491 ± 1.136e–05
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012

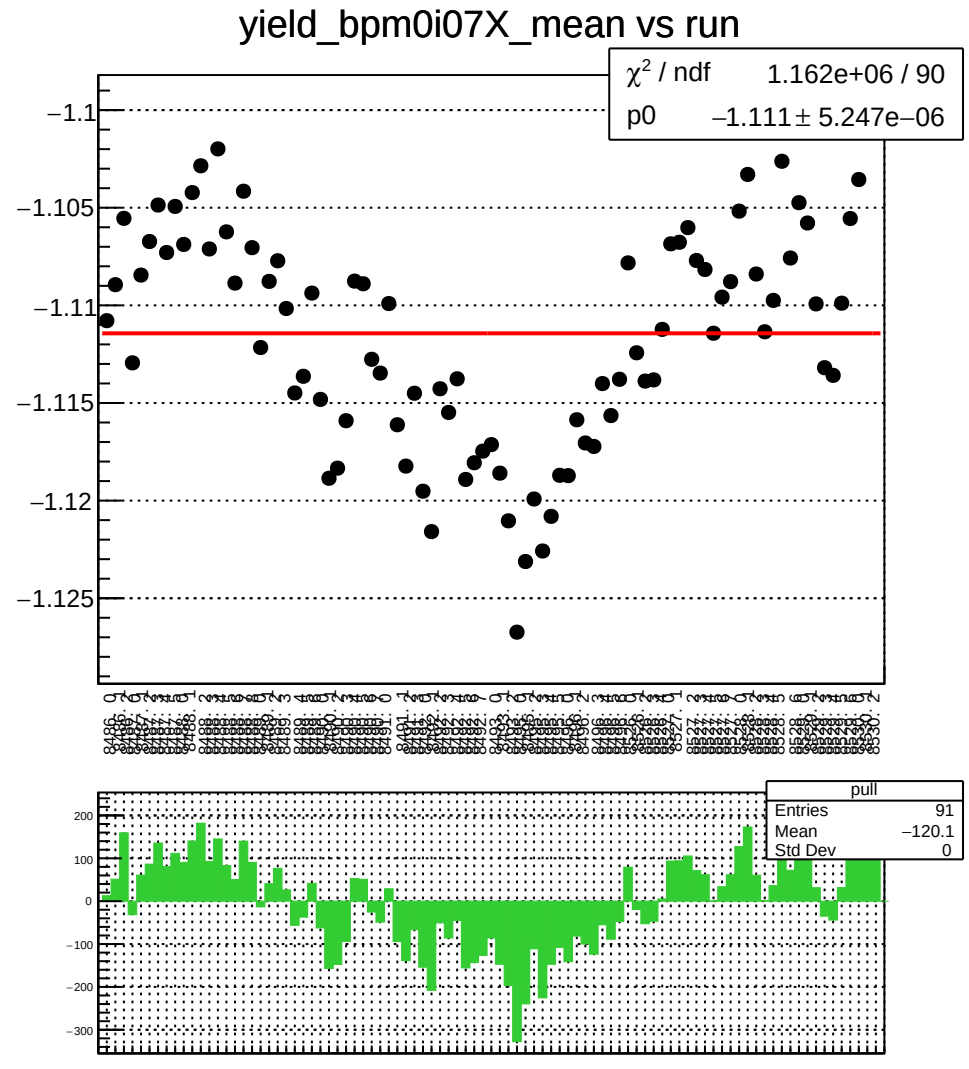

yield_bpm0i05X_mean vs run
χ² / ndf 1.052e+06 / 90
p0 −0.1834 ± 8.869e−06
−0.12
−0.13
−0.14
−0.15
−0.16
−0.17
−0.18
−0.19
−0.2
−0.21
pull
Entries 91
Mean 12.14
Std Dev 66.23
200
100
0
−100
−200
pull1D
Entries 91
Mean 2.611
Std Dev 4.138
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

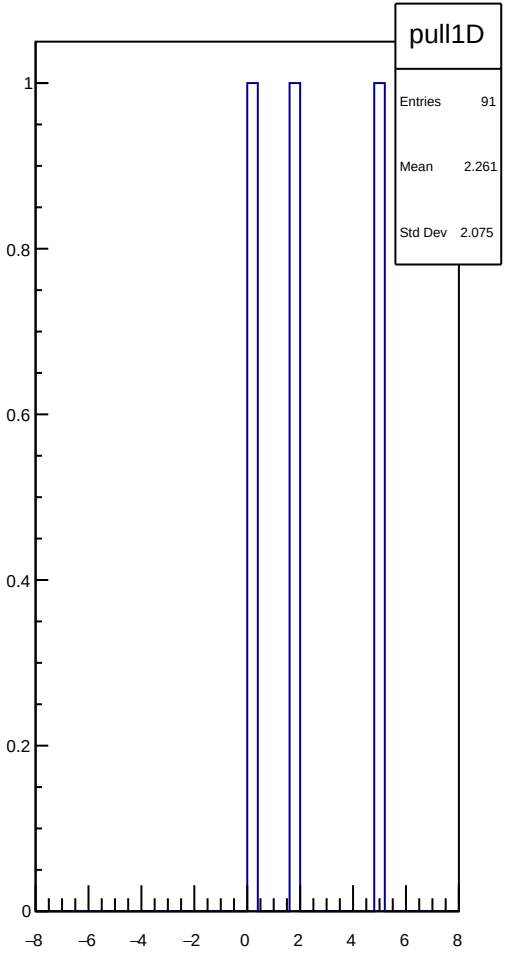

yield_bpm0i05X_rms vs run
χ^2 / ndf 1.633e+05 / 90
p0 0.007897 ± 6.271e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

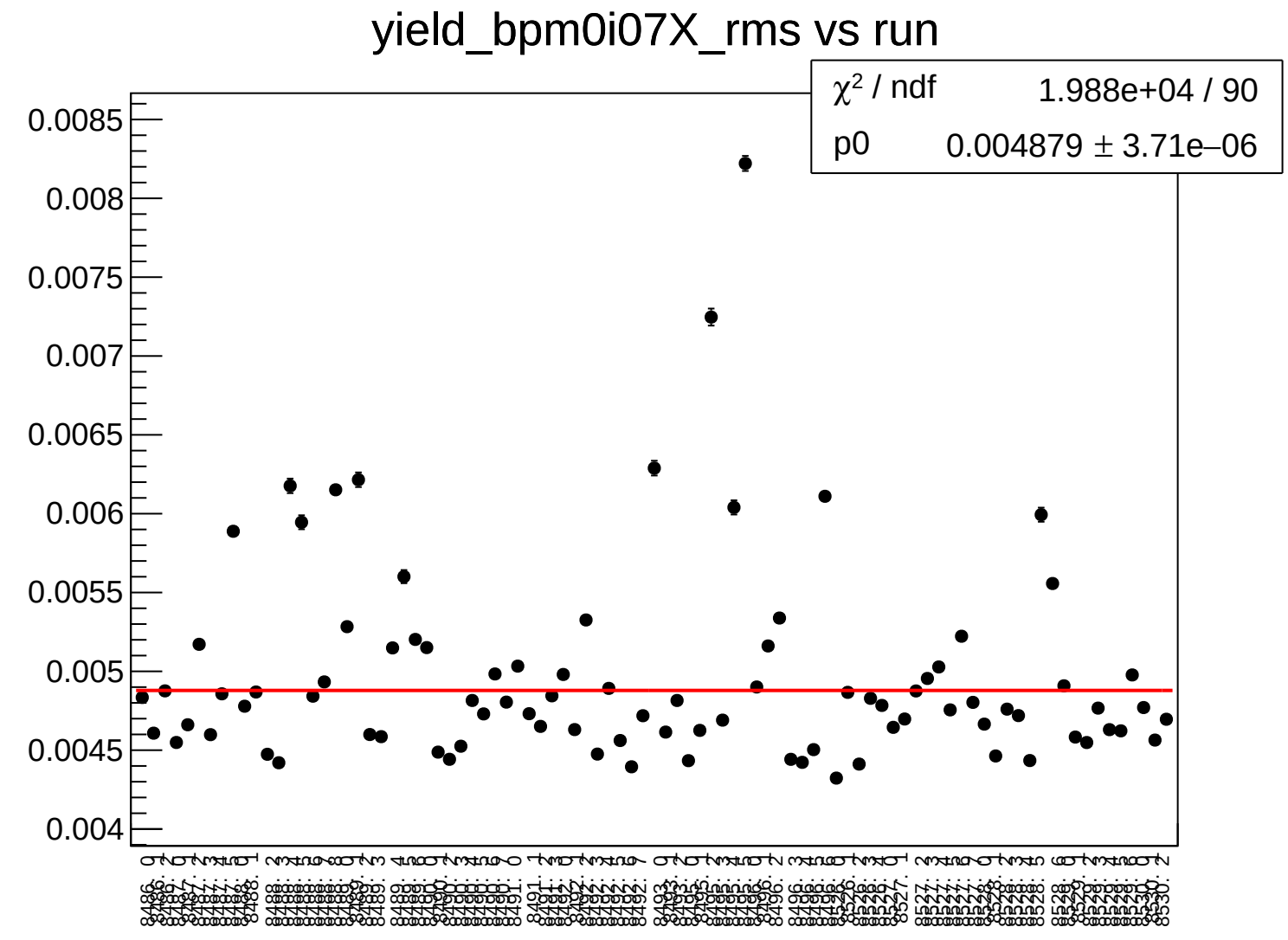

yield_bpm0i05Y_mean vs run
χ² / ndf 1.247e+06 / 90
p0 −1.333 ± 9.617e−06
−1.3
−1.32
−1.34
−1.36
−1.38
−1.4
−1.42
pull
Entries 91
Mean −230.5
Std Dev 0
400
300
200
100
0
−100
−200
−300

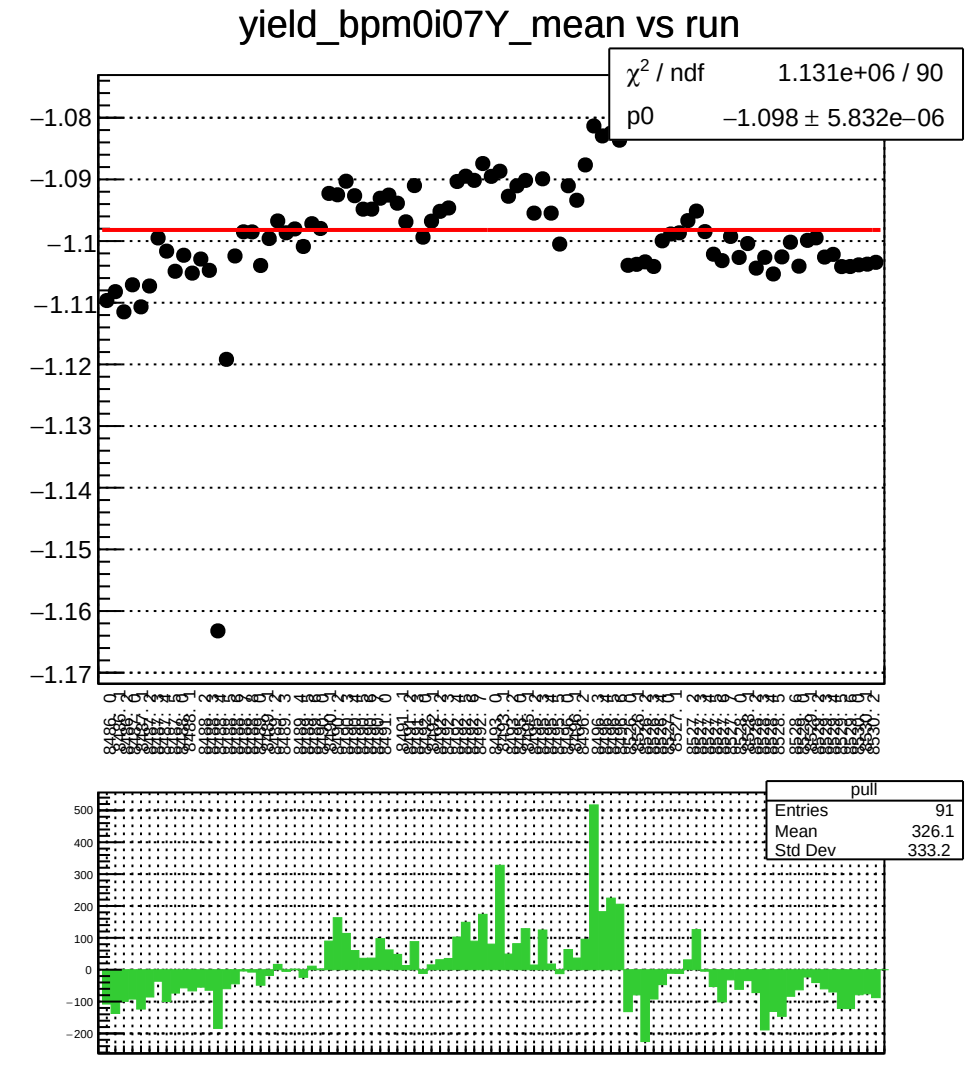

pull1D
Entries 91
Mean 2.003
Std Dev 3.874
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

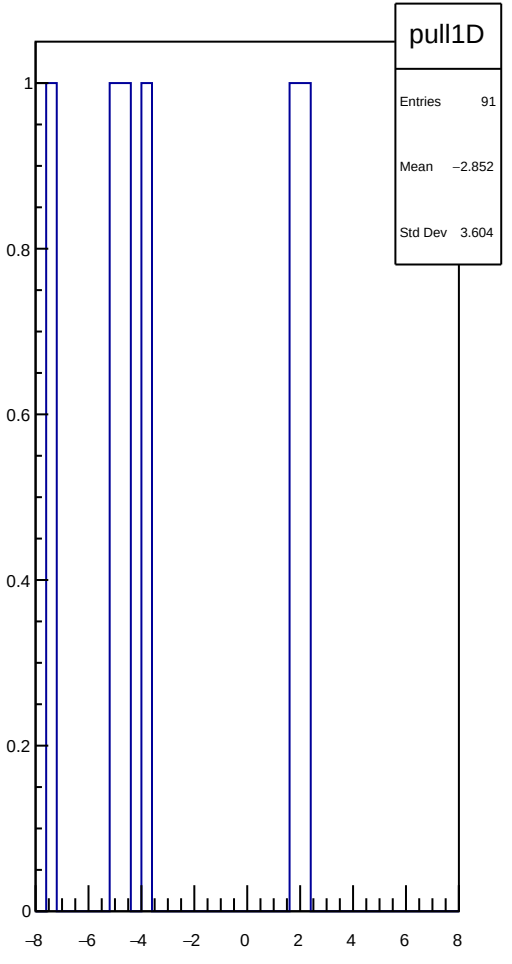

yield_bpm0i05Y_rms vs run
χ² / ndf 3.528e+05 / 90
p0 0.008036 ± 6.8e−06
0.05
0.04
0.03
0.02
0.01

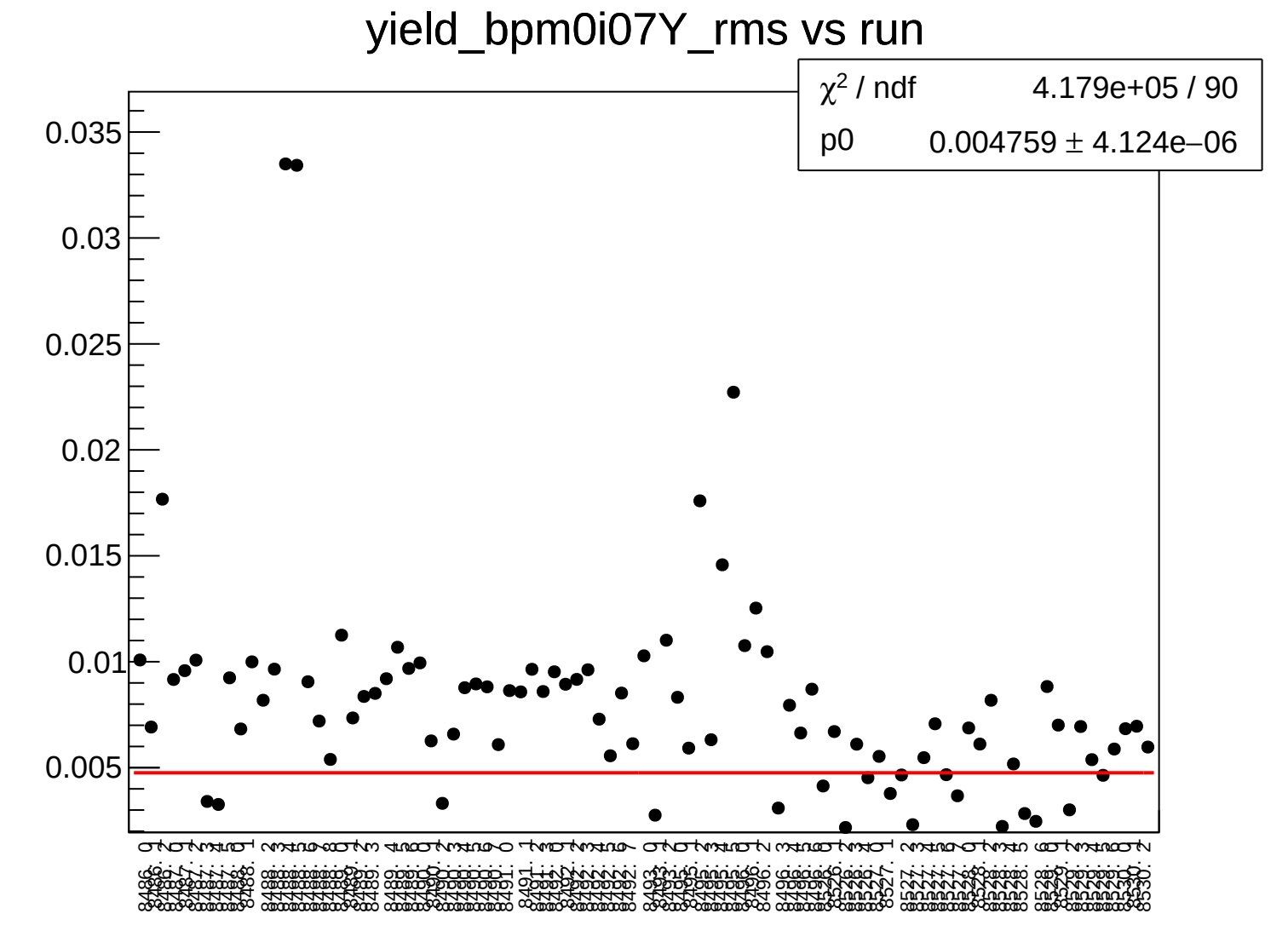

yield_bpm0i07X_mean vs run
χ² / ndf 1.162e+06 / 90
p0 −1.111 ± 5.247e−06
−1.1
−1.105
−1.11
−1.115
−1.12
−1.125
pull
Entries 91
Mean −120.1
Std Dev 0
200
100
0
−100
−200
−300

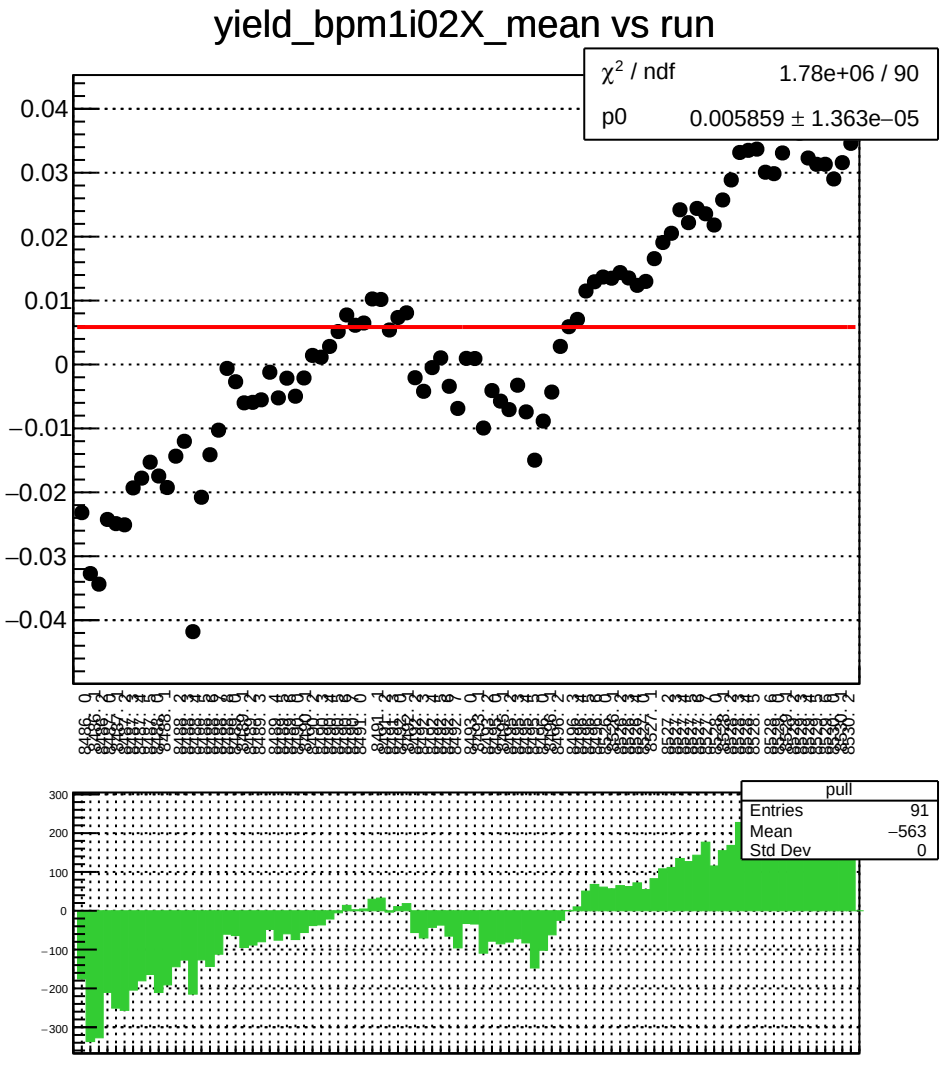

pull1D
Entries 91
Mean 2.261
Std Dev 2.075
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

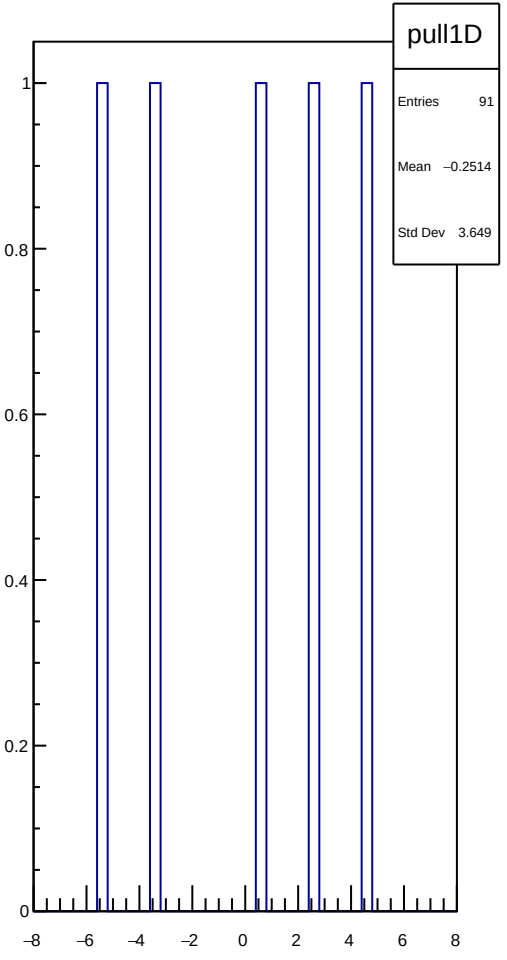

yield_bpm0i07X_rms vs run
χ² / ndf 1.988e+04 / 90
p0 0.004879 ± 3.71e–06
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004

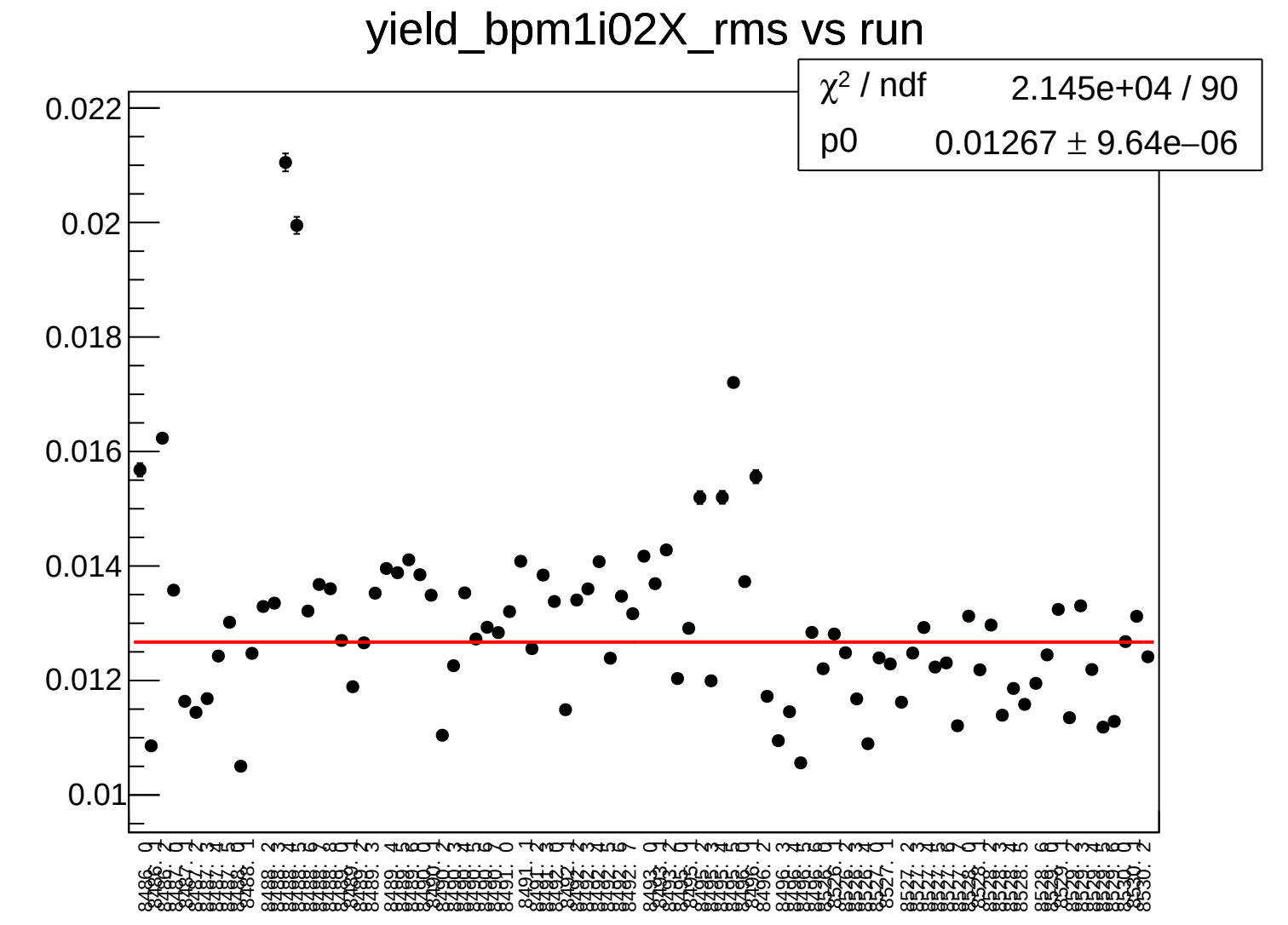

yield_bpm0i07Y_mean vs run
χ² / ndf 1.131e+06 / 90
p0 −1.098 ± 5.832e−06
−1.08
−1.09
−1.1
−1.11
−1.12
−1.13
−1.14
−1.15
−1.16
−1.17
pull
Entries 91
Mean 326.1
Std Dev 333.2
500
400
300
200
100
0
−100
−200

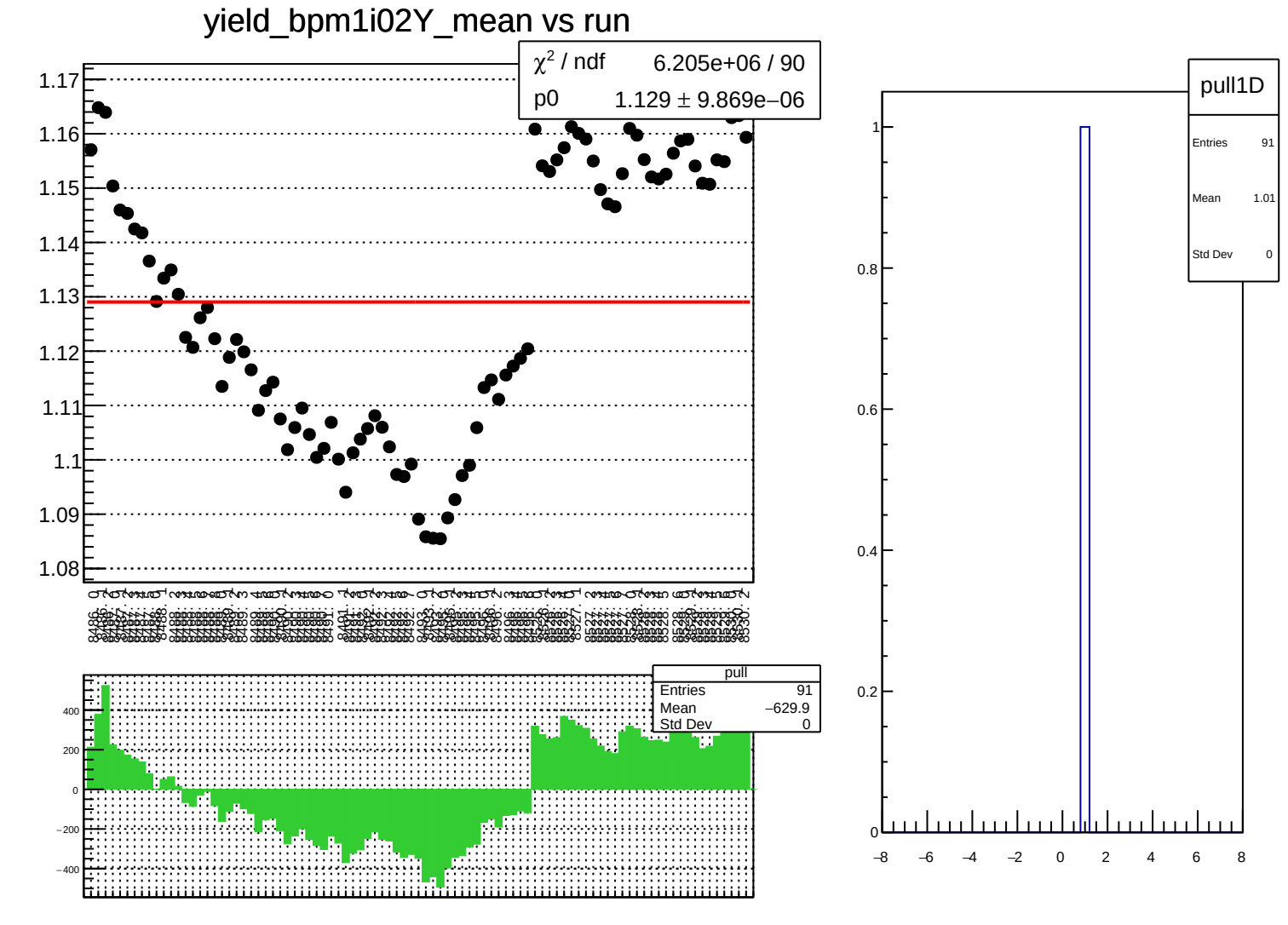

pull1D
Entries 91
Mean −2.852
Std Dev 3.604
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

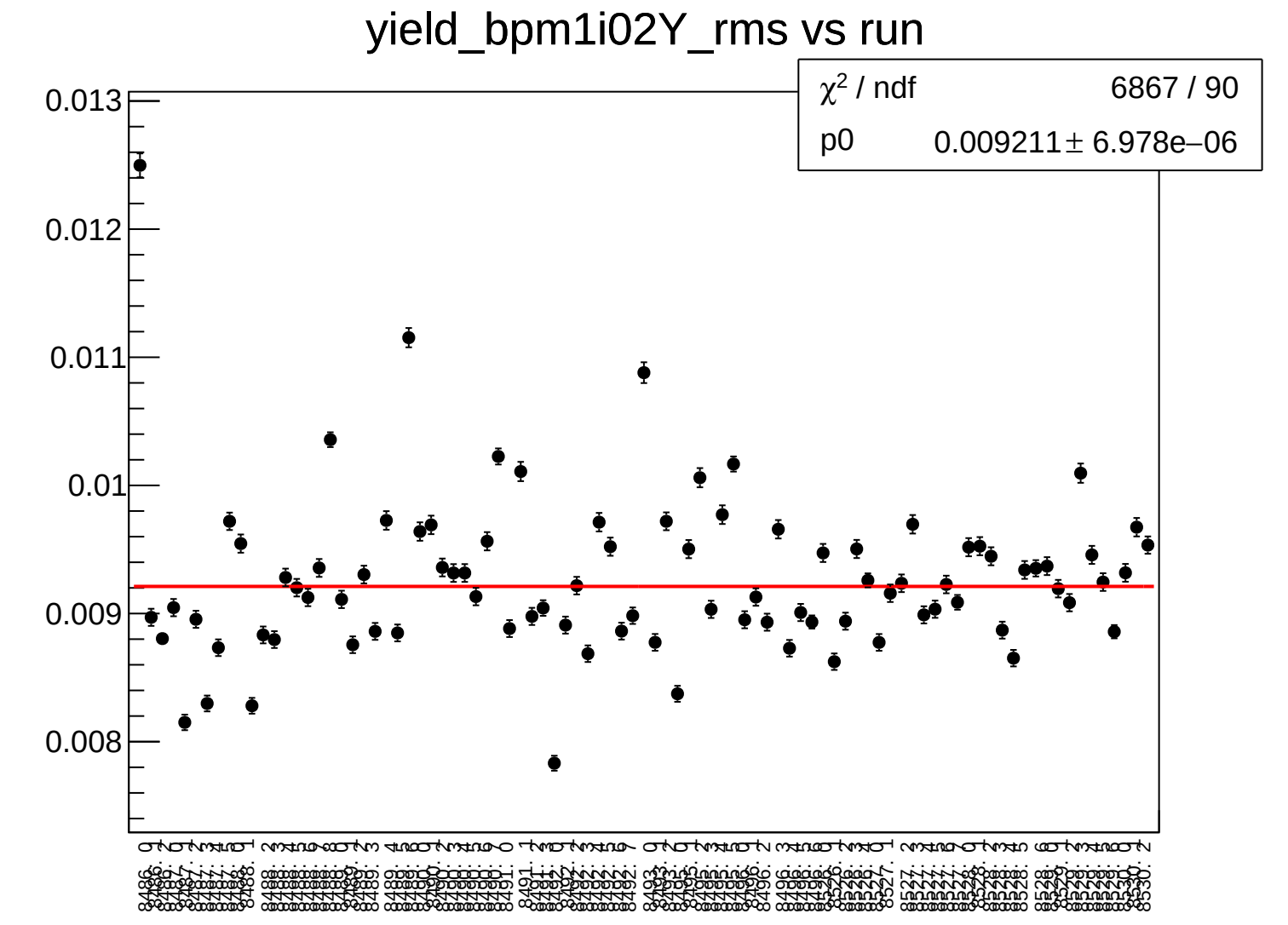

yield_bpm0i07Y_rms vs run
χ² / ndf 4.179e+05 / 90
p0 0.004759 ± 4.124e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

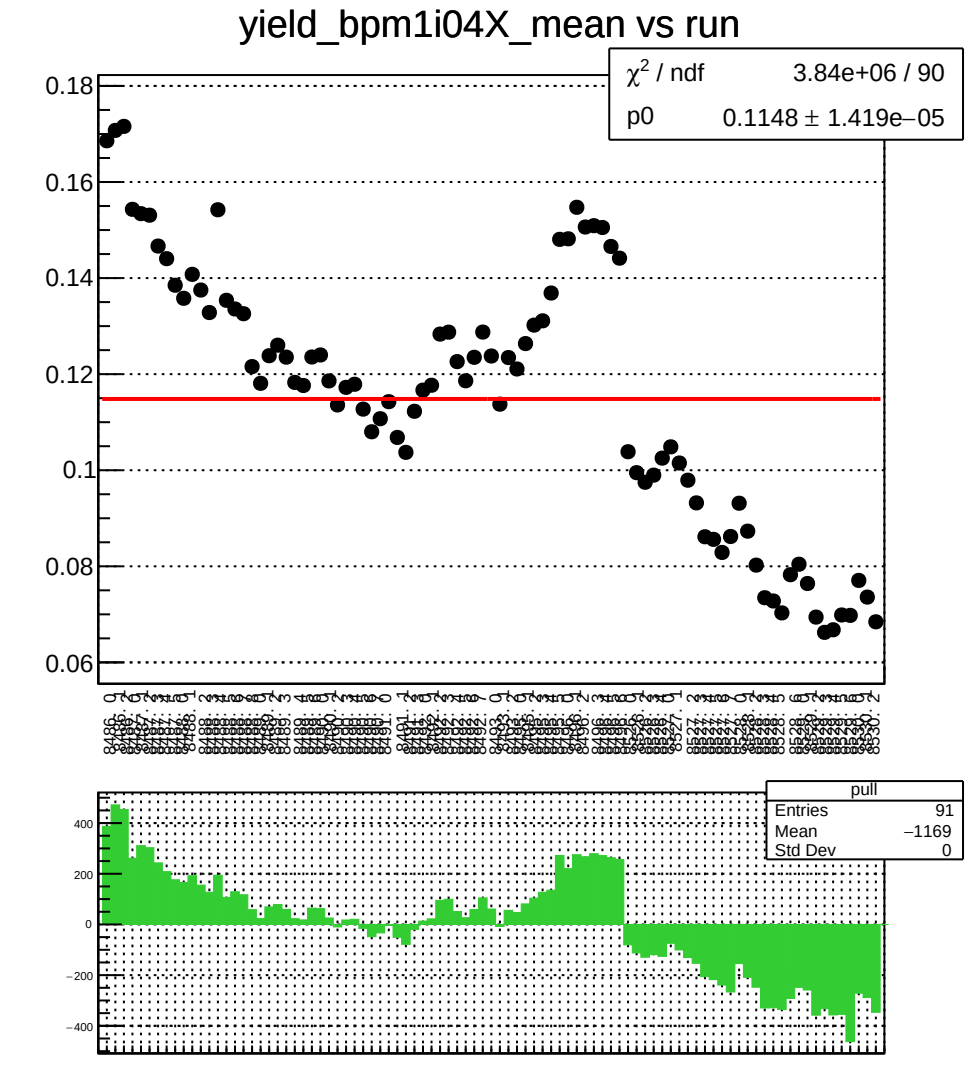

yield_bpm1i02X_mean vs run
χ² / ndf 1.78e+06 / 90
p0 0.005859 ± 1.363e−05
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 91
Mean −563
Std Dev 0
300
200
100
0
−100
−200
−300

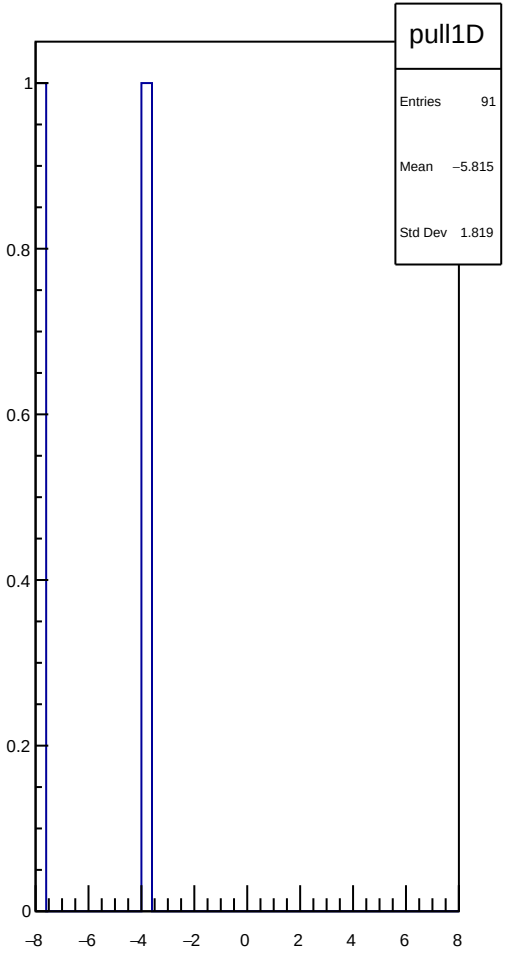

pull1D
Entries 91
Mean −0.2514
Std Dev 3.649
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

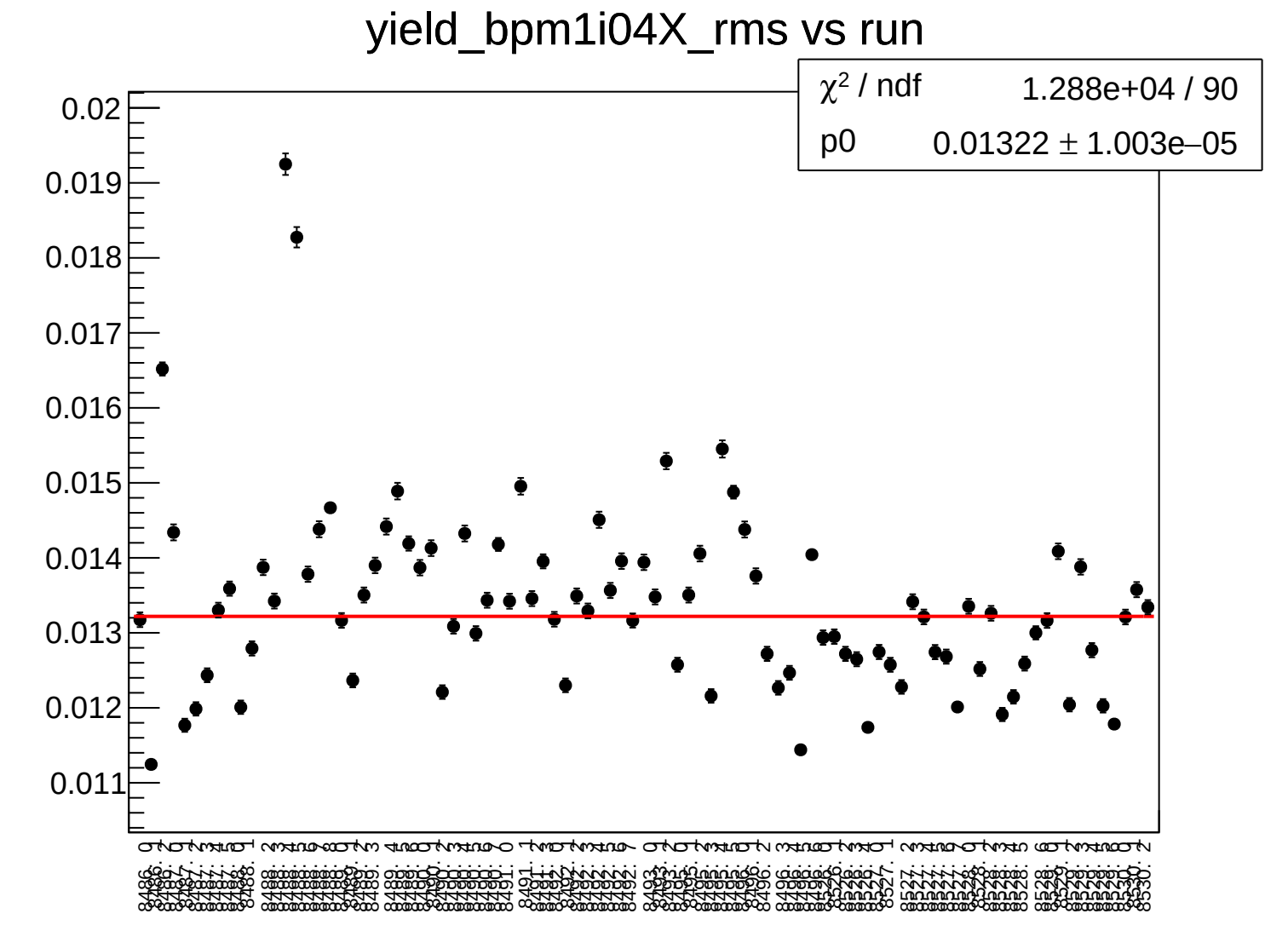

yield_bpm1i02X_rms vs run
χ^2 / ndf 2.145e+04 / 90
p0 0.01267 ± 9.64e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01

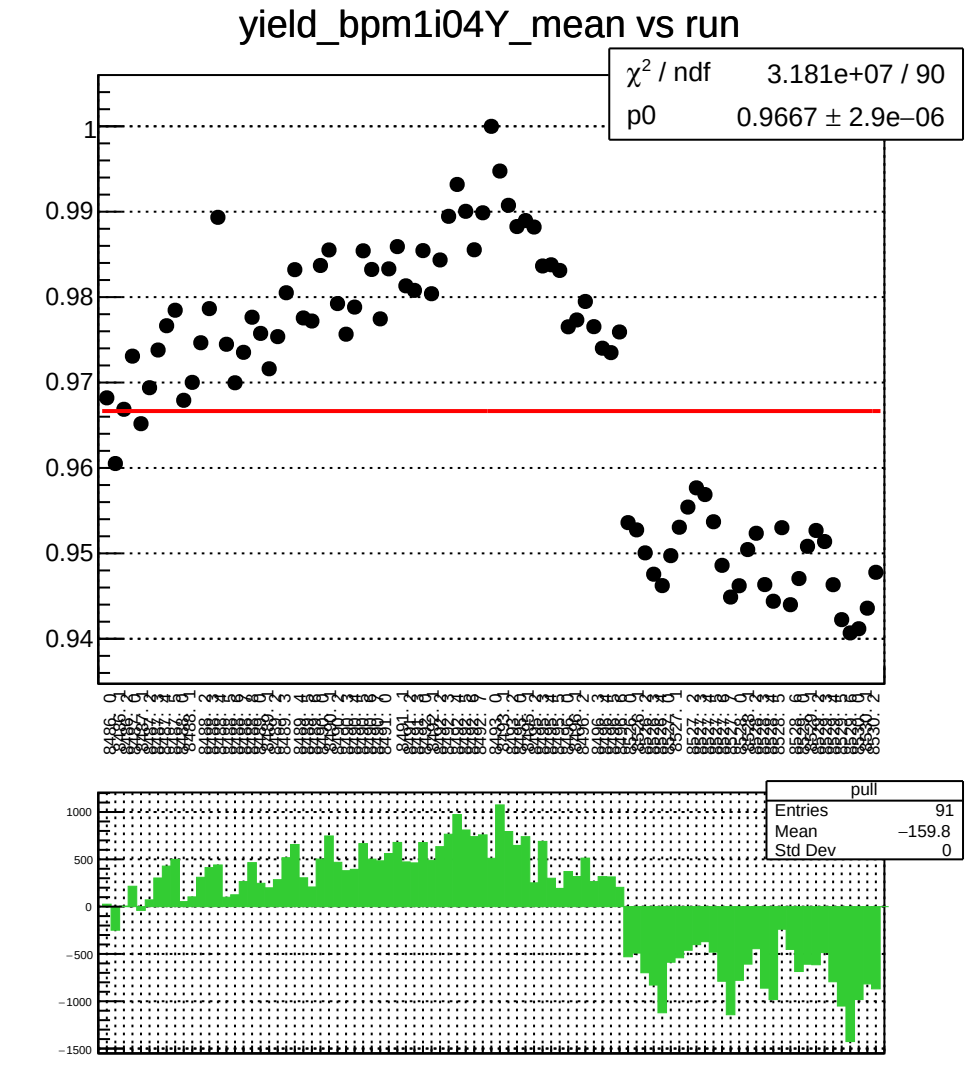

yield_bpm1i02Y_mean vs run
χ² / ndf 6.205e+06 / 90
p0 1.129 ± 9.869e−06
pull
Entries 91
Mean −629.9
Std Dev 0
pull1D
Entries 91
Mean 1.01
Std Dev 0

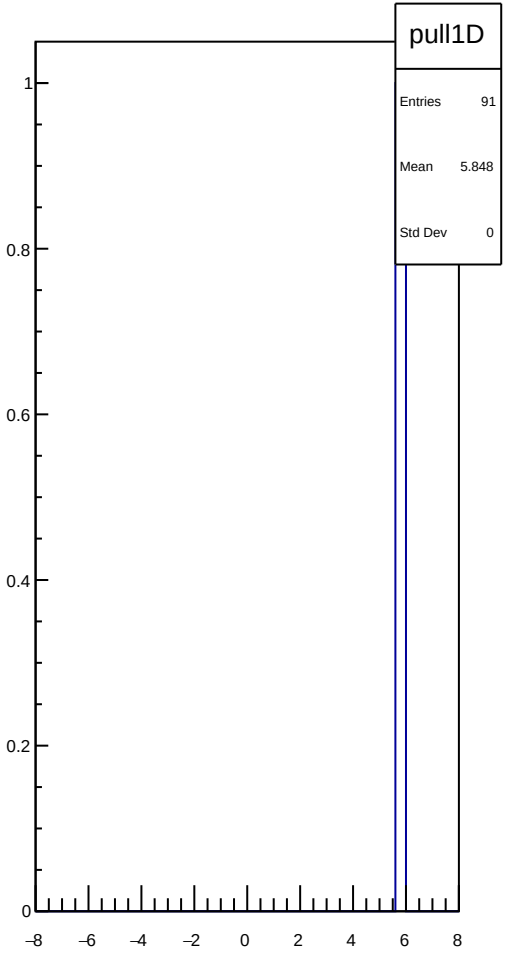

yield_bpm1i02Y_rms vs run
χ² / ndf 6867 / 90
p0 0.009211 ± 6.978e−06
0.013
0.012
0.011
0.01
0.009
0.008

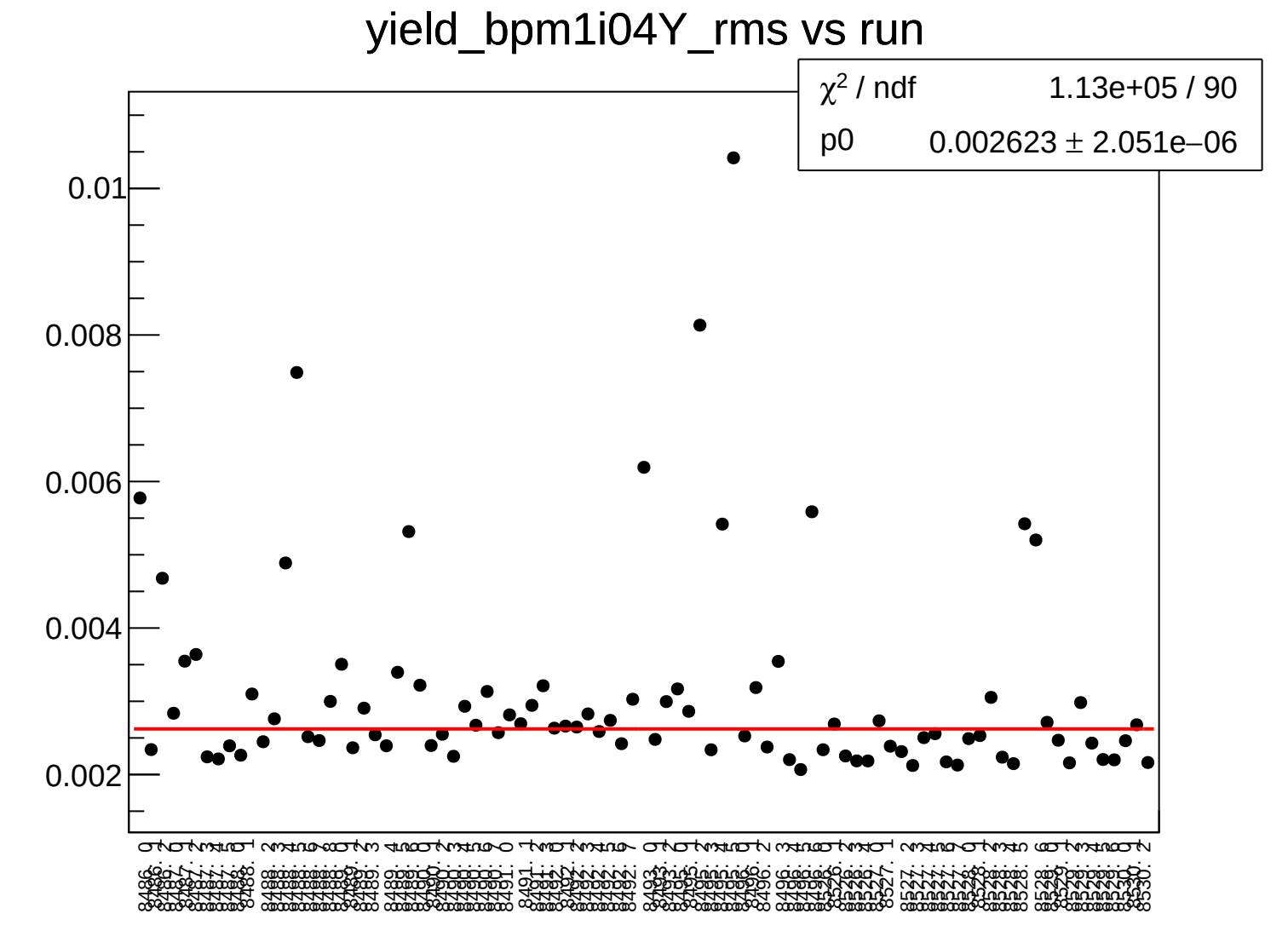

yield_bpm1i04X_mean vs run
χ² / ndf 3.84e+06 / 90
p0 0.1148 ± 1.419e−05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
pull
Entries 91
Mean −1169
Std Dev 0
400
200
0
−200
−400

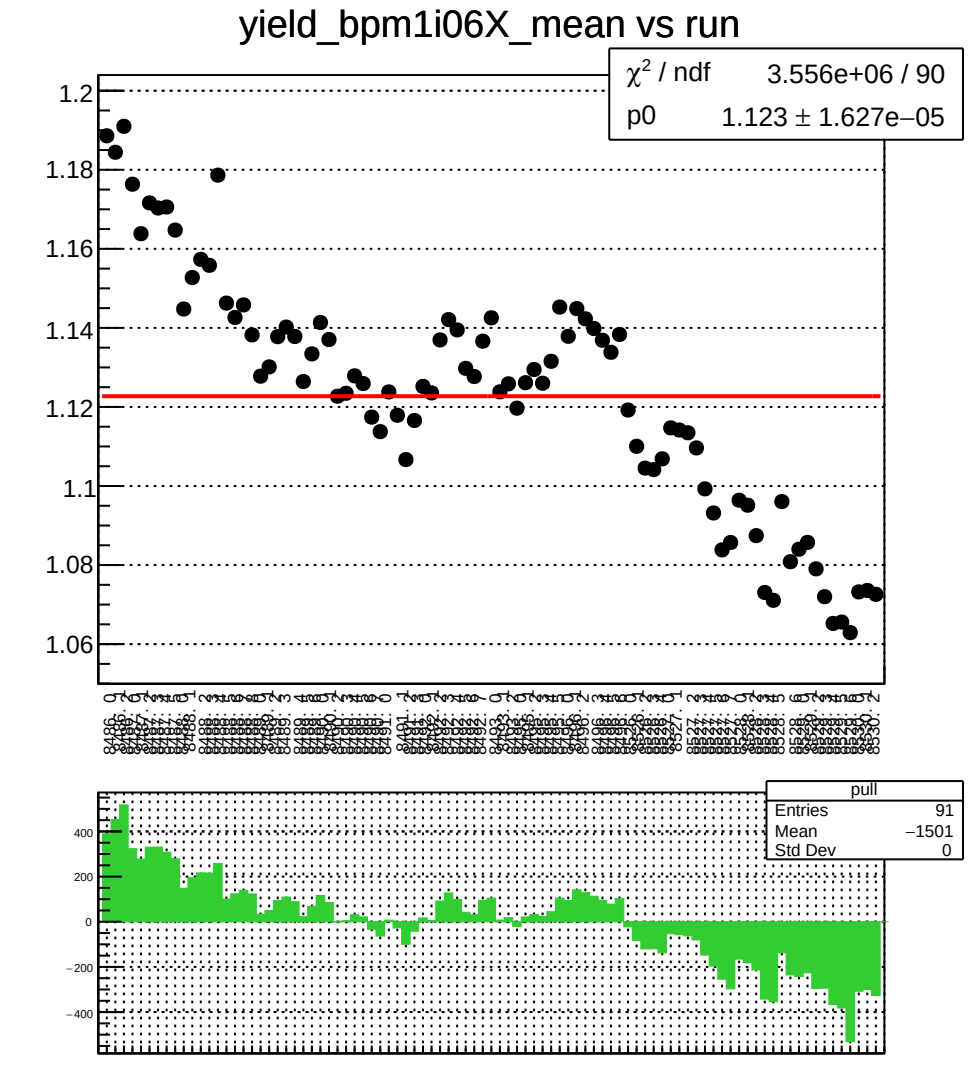

pull1D
Entries 91
Mean −5.815
Std Dev 1.819
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

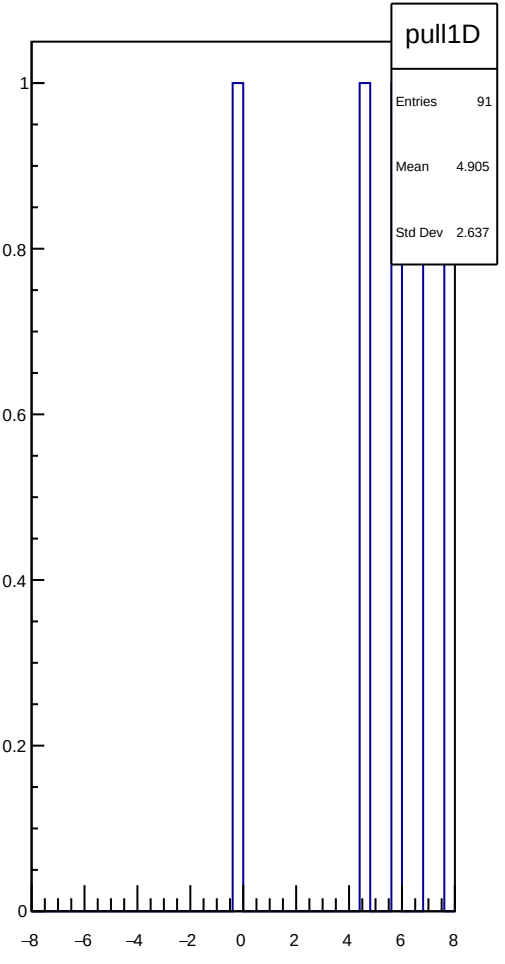

yield_bpm1i04X_rms vs run
χ² / ndf 1.288e+04 / 90
p0 0.01322 ± 1.003e–05
0.02
0.019
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011

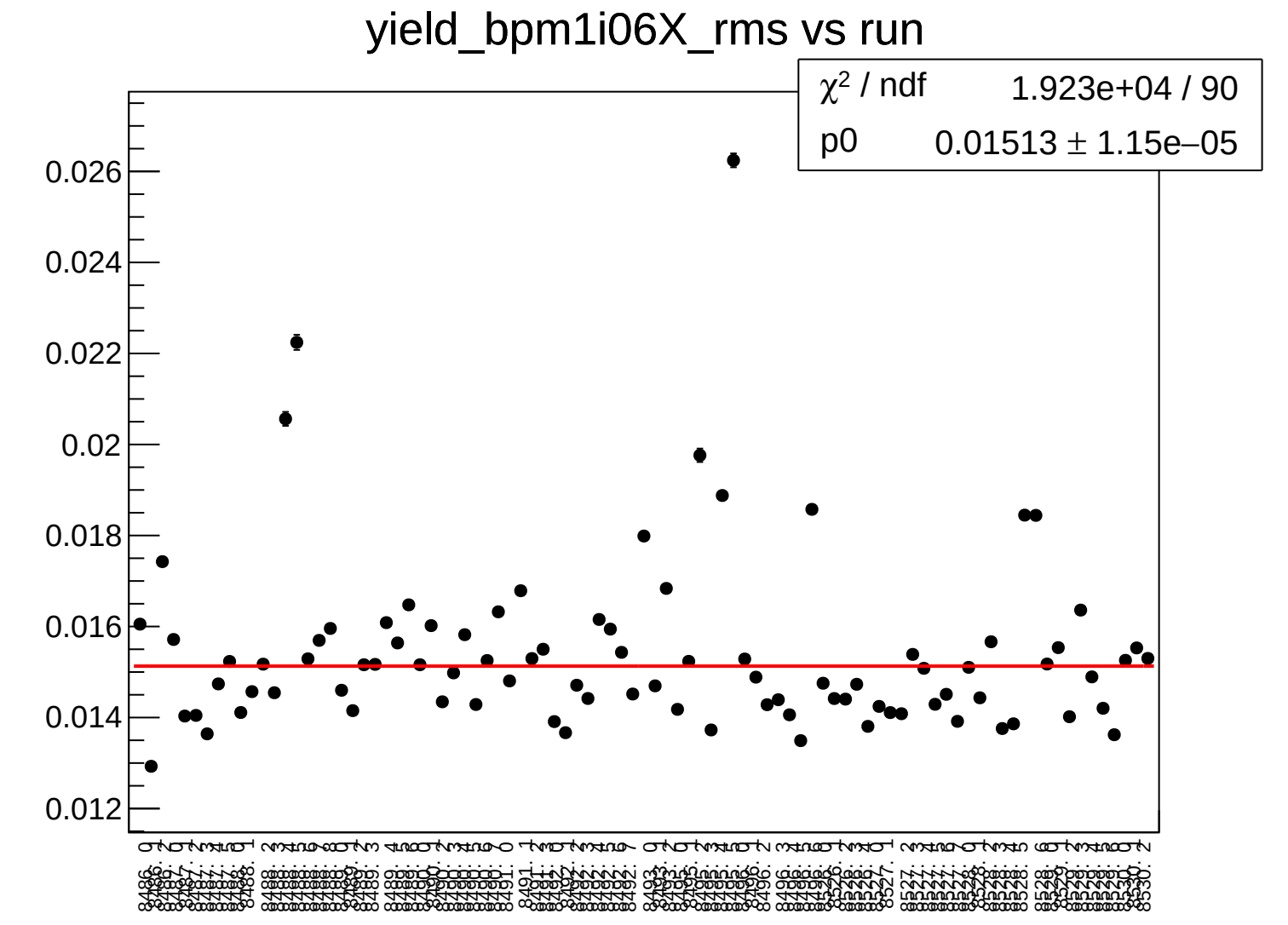

yield_bpm1i04Y_mean vs run
χ² / ndf 3.181e+07 / 90
p0 0.9667 ± 2.9e−06
1
0.99
0.98
0.97
0.96
0.95
0.94
pull
Entries 91
Mean −159.8
Std Dev 0
1000
500
0
−500
−1000
−1500

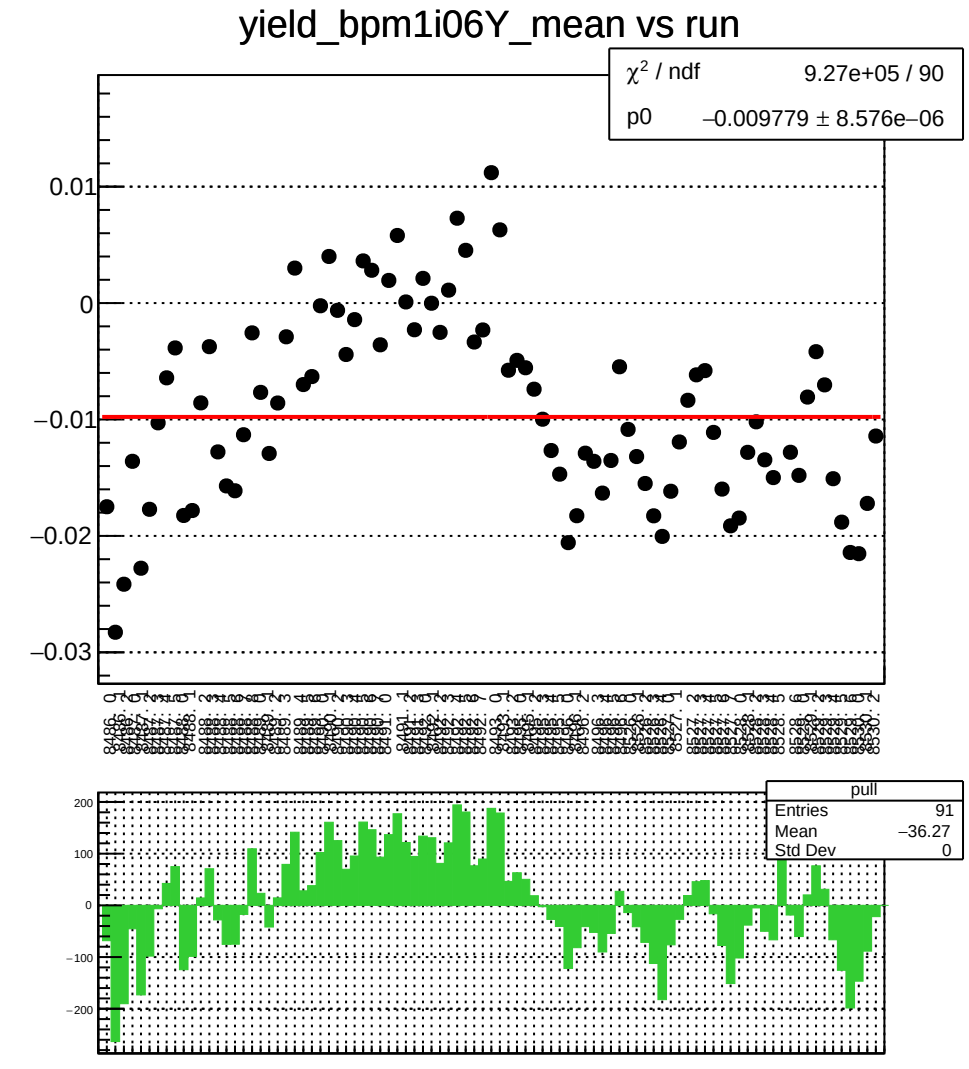

pull1D
Entries 91
Mean 5.848
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

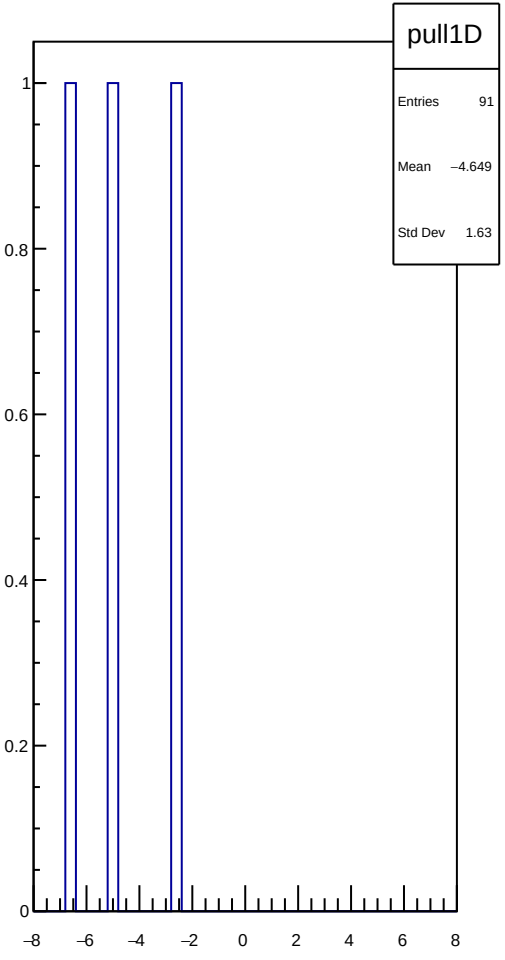

yield_bpm1i04Y_rms vs run
χ^2 / ndf 1.13e+05 / 90
p0 0.002623 ± 2.051e−06
0.01
0.008
0.006
0.004
0.002

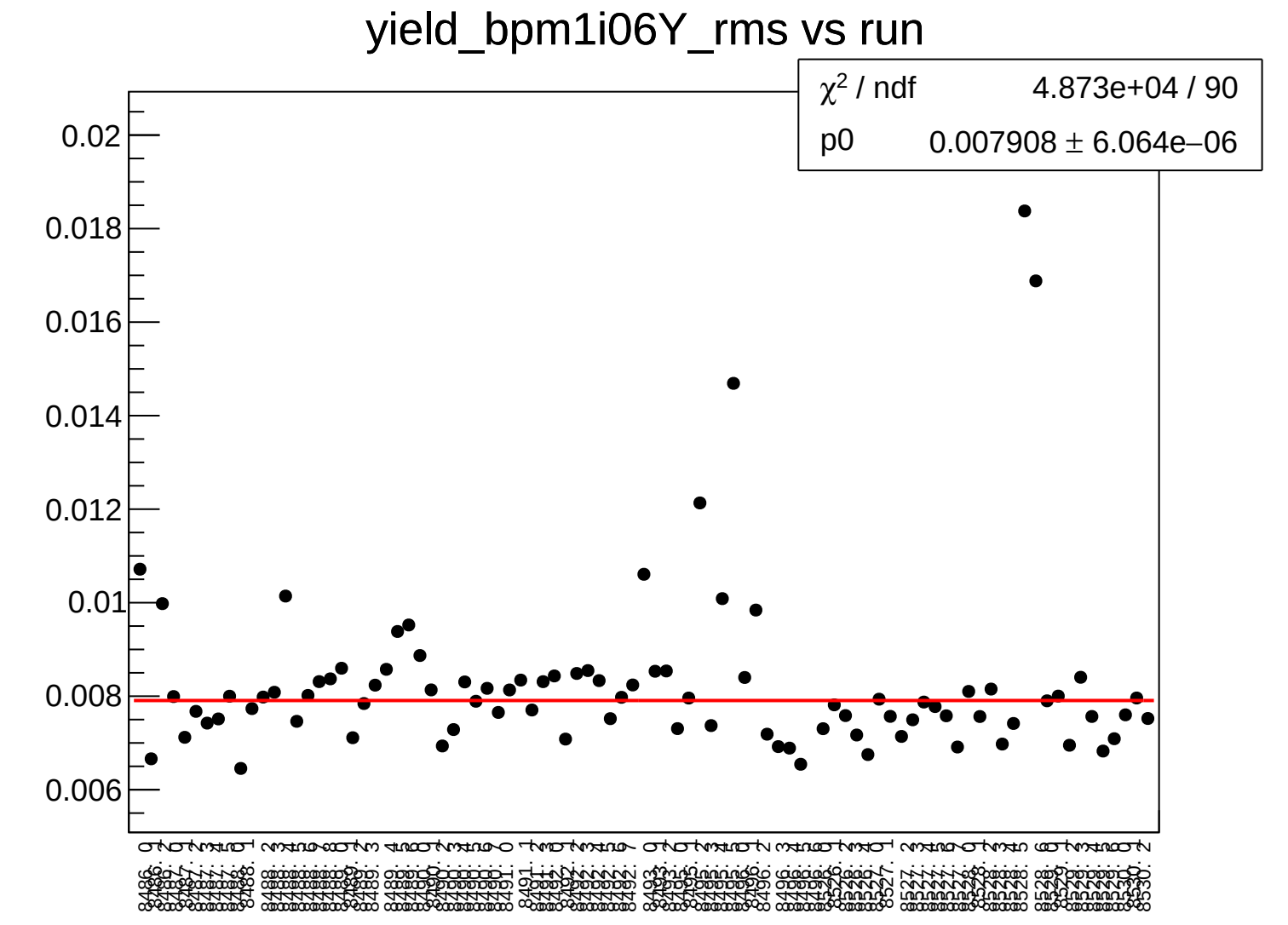

yield_bpm1i06X_mean vs run
χ² / ndf 3.556e+06 / 90
p0 1.123 ± 1.627e−05
1.2
1.18
1.16
1.14
1.12
1.1
1.08
1.06
pull
Entries 91
Mean −1501
Std Dev 0
400
200
0
−200
−400

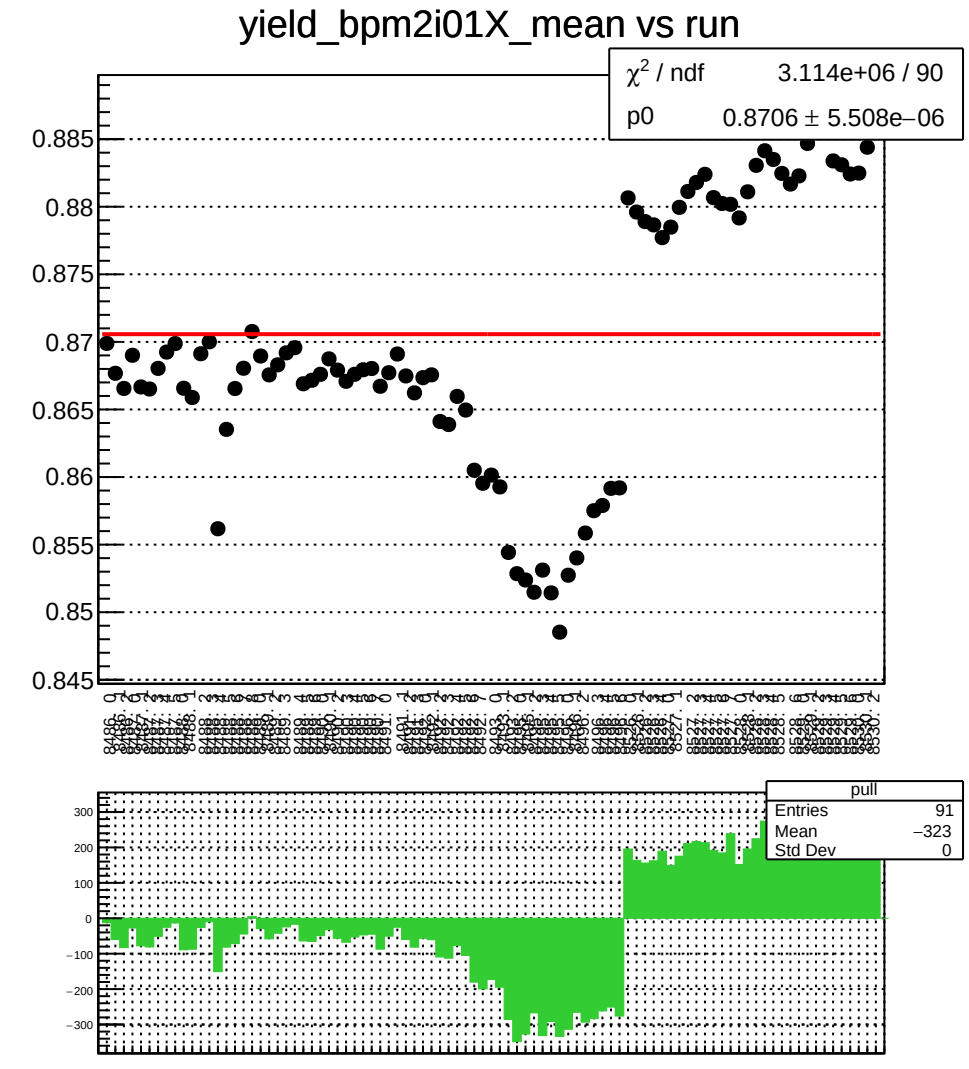

pull1D
Entries 91
Mean 4.905
Std Dev 2.637
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

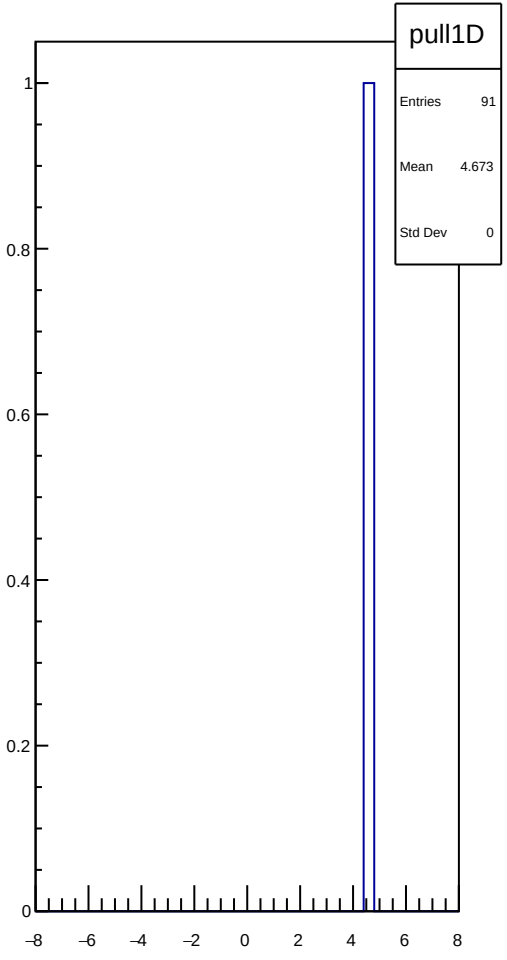

yield_bpm1i06X_rms vs run
χ^2 / ndf 1.923e+04 / 90
p0 0.01513 ± 1.15e−05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012

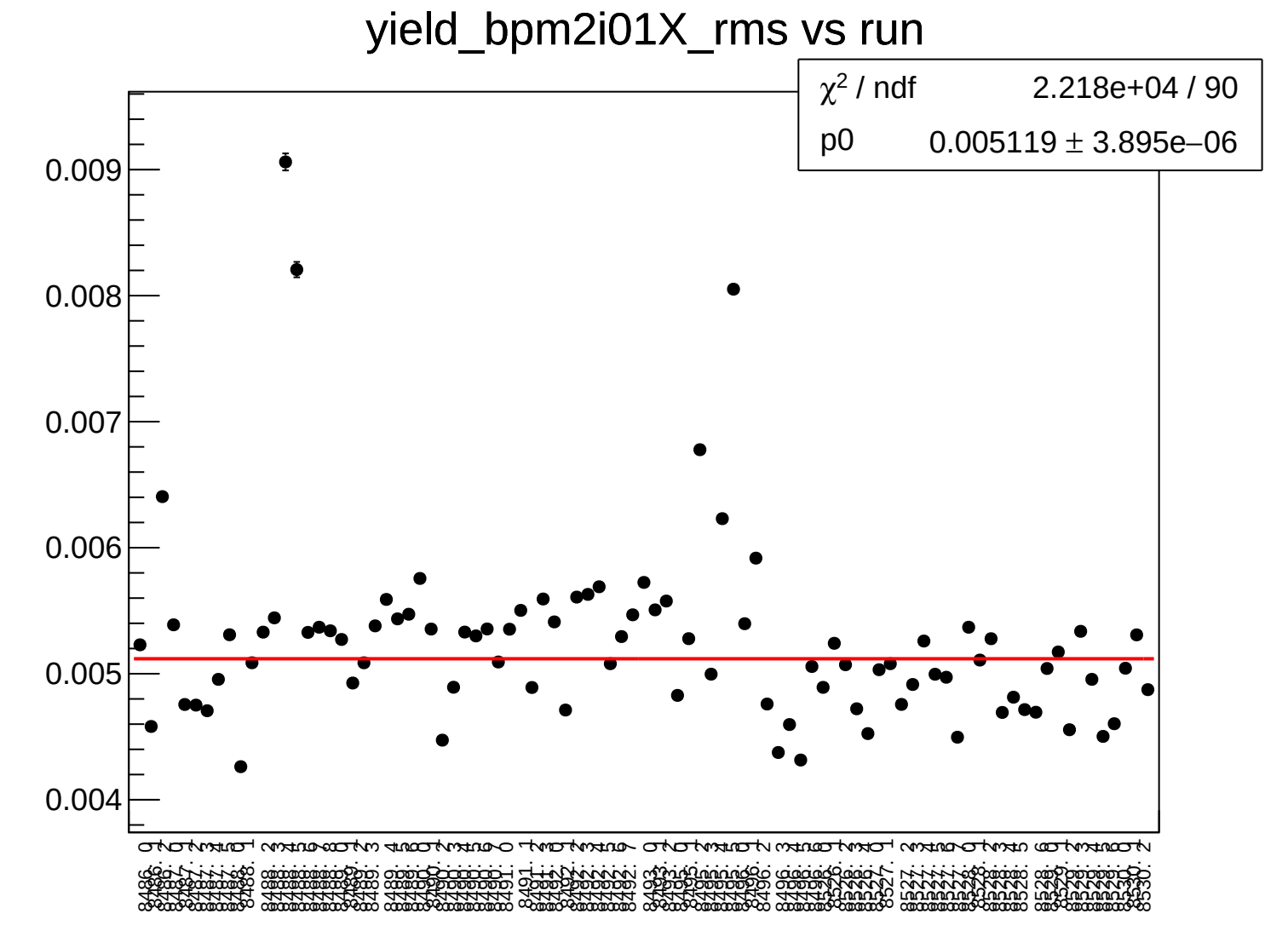

yield_bpm1i06Y_mean vs run
χ² / ndf 9.27e+05 / 90
p0 −0.009779 ± 8.576e−06
0.01
0
−0.01
−0.02
−0.03
pull
Entries 91
Mean −36.27
Std Dev 0
200
100
0
−100
−200

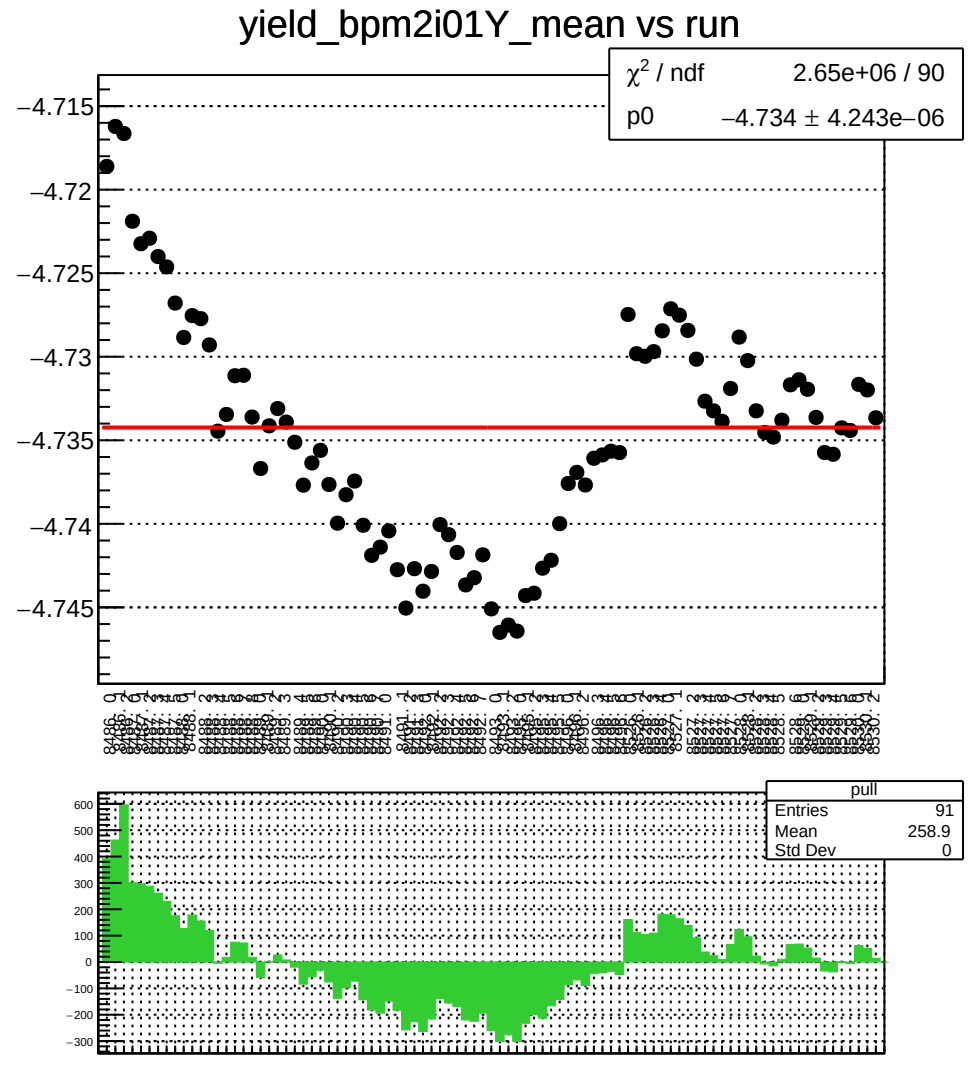

pull1D
Entries 91
Mean −4.649
Std Dev 1.63
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

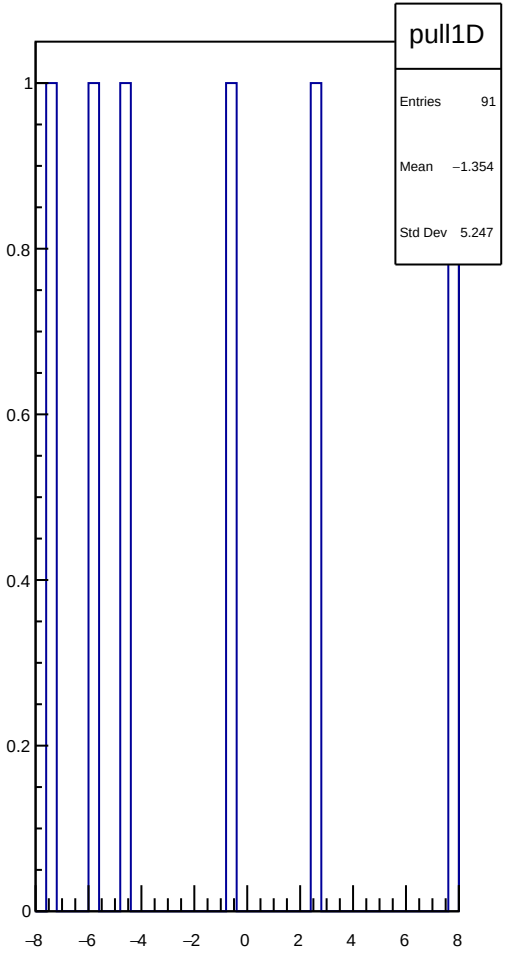

yield_bpm1i06Y_rms vs run
χ^2 / ndf 4.873e+04 / 90
p0 0.007908 ± 6.064e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

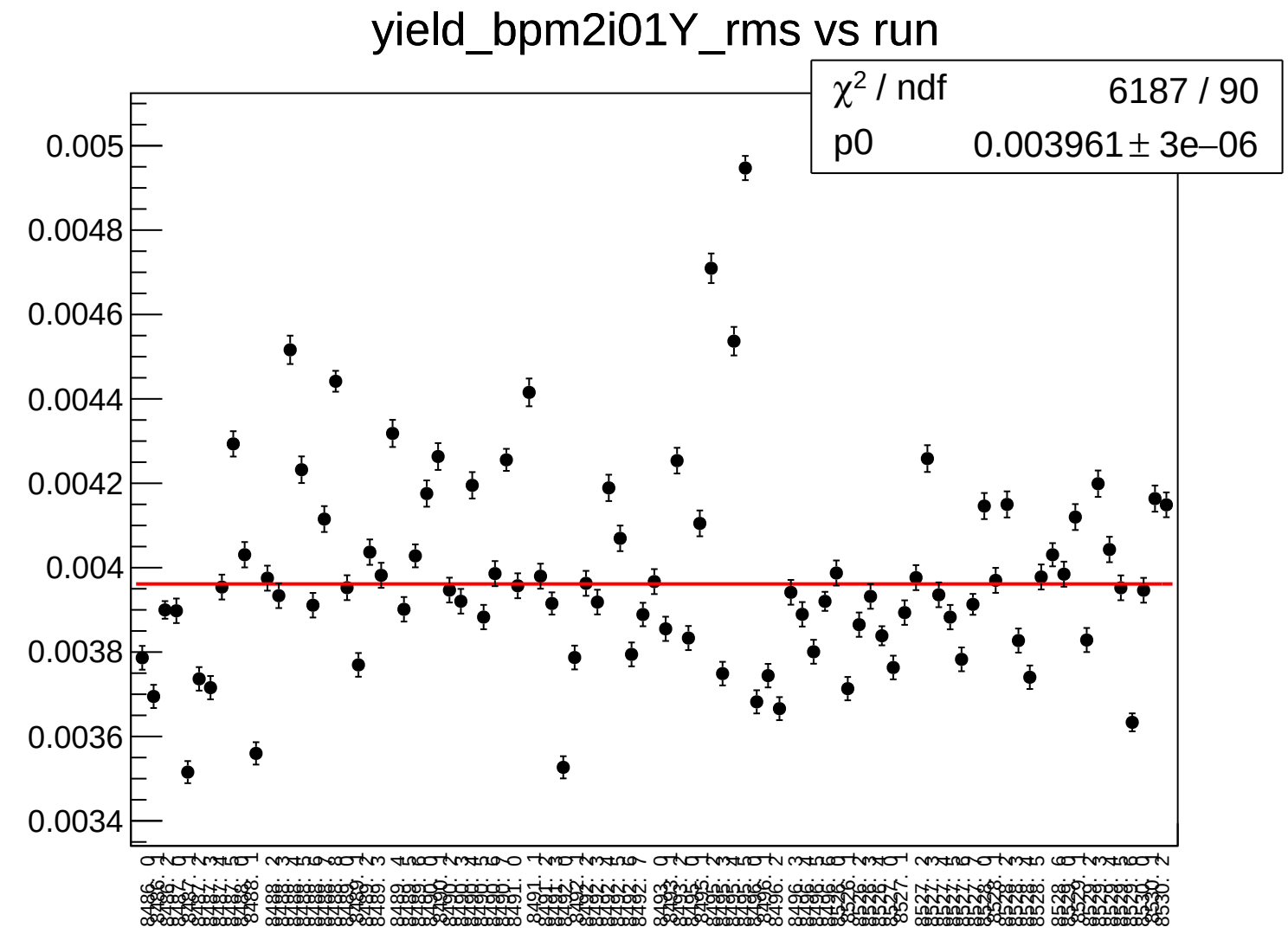

yield_bpm2i01X_mean vs run
χ² / ndf 3.114e+06 / 90
p0 0.8706 ± 5.508e−06
pull
Entries 91
Mean −323
Std Dev 0

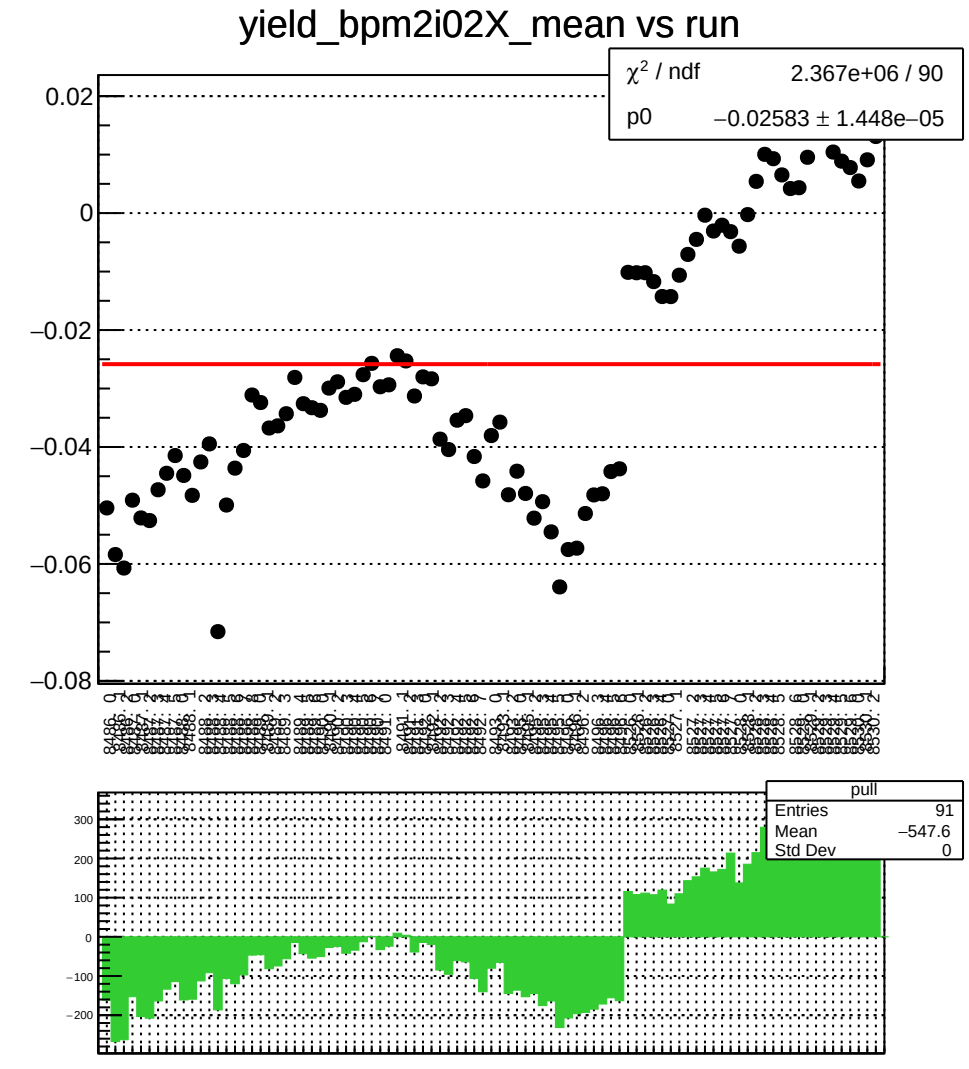

pull1D
Entries 91
Mean 4.673
Std Dev 0

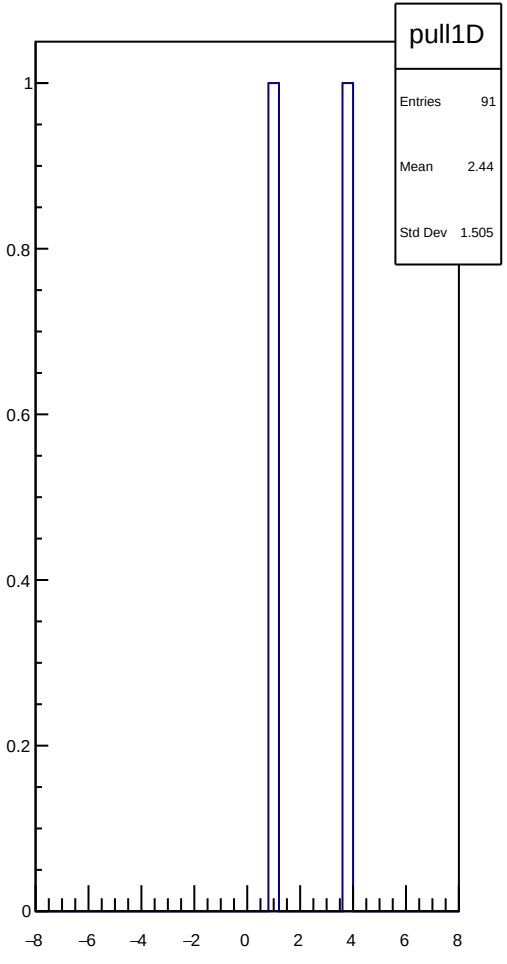

yield_bpm2i01X_rms vs run
χ^2 / ndf 2.218e+04 / 90
p0 0.005119 ± 3.895e−06
0.009
0.008
0.007
0.006
0.005
0.004

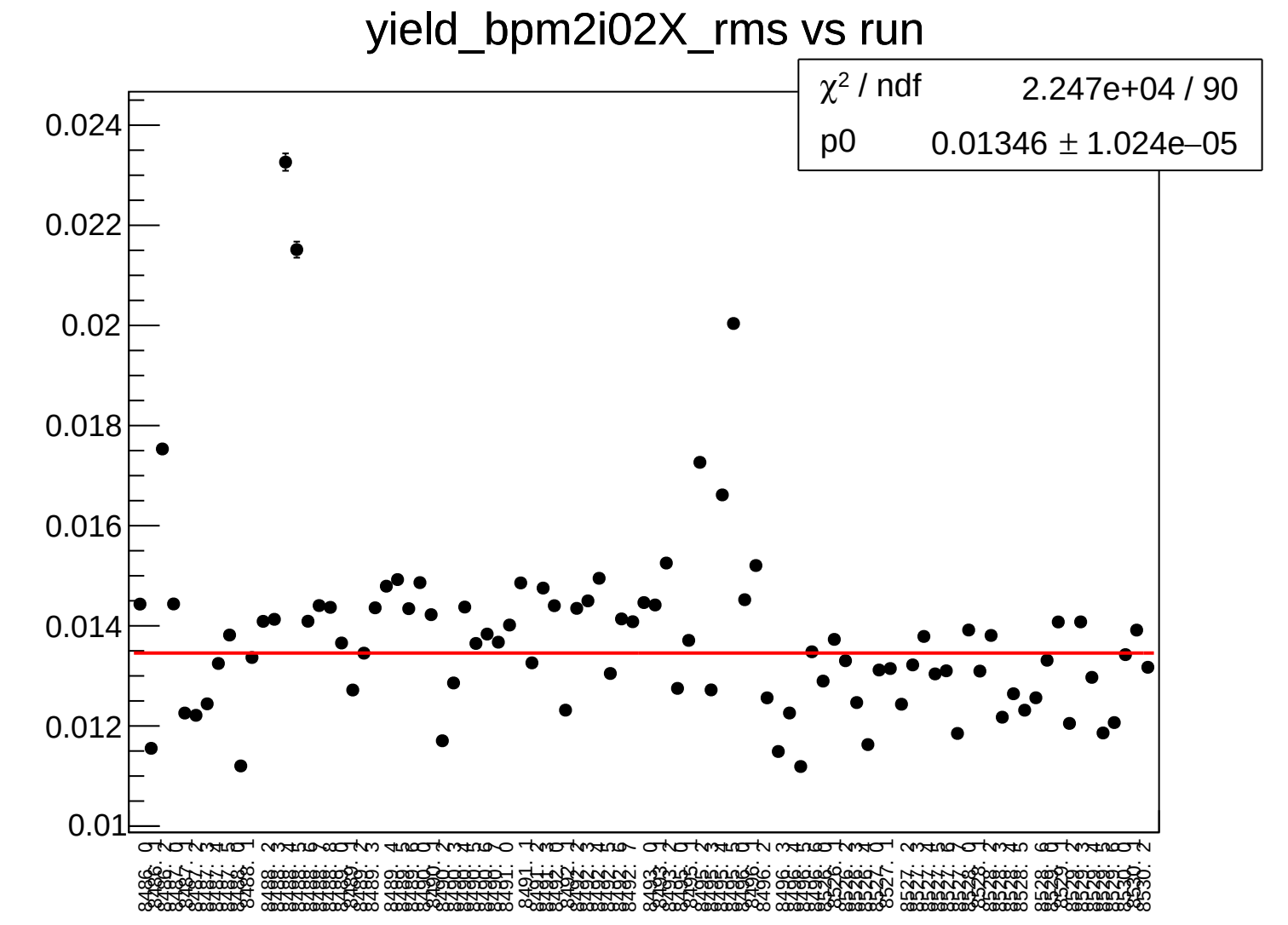

yield_bpm2i01Y_mean vs run
χ² / ndf 2.65e+06 / 90
p0 −4.734 ± 4.243e−06
−4.715
−4.72
−4.725
−4.73
−4.735
−4.74
−4.745
pull
Entries 91
Mean 258.9
Std Dev 0
600
500
400
300
200
100
0
−100
−200
−300

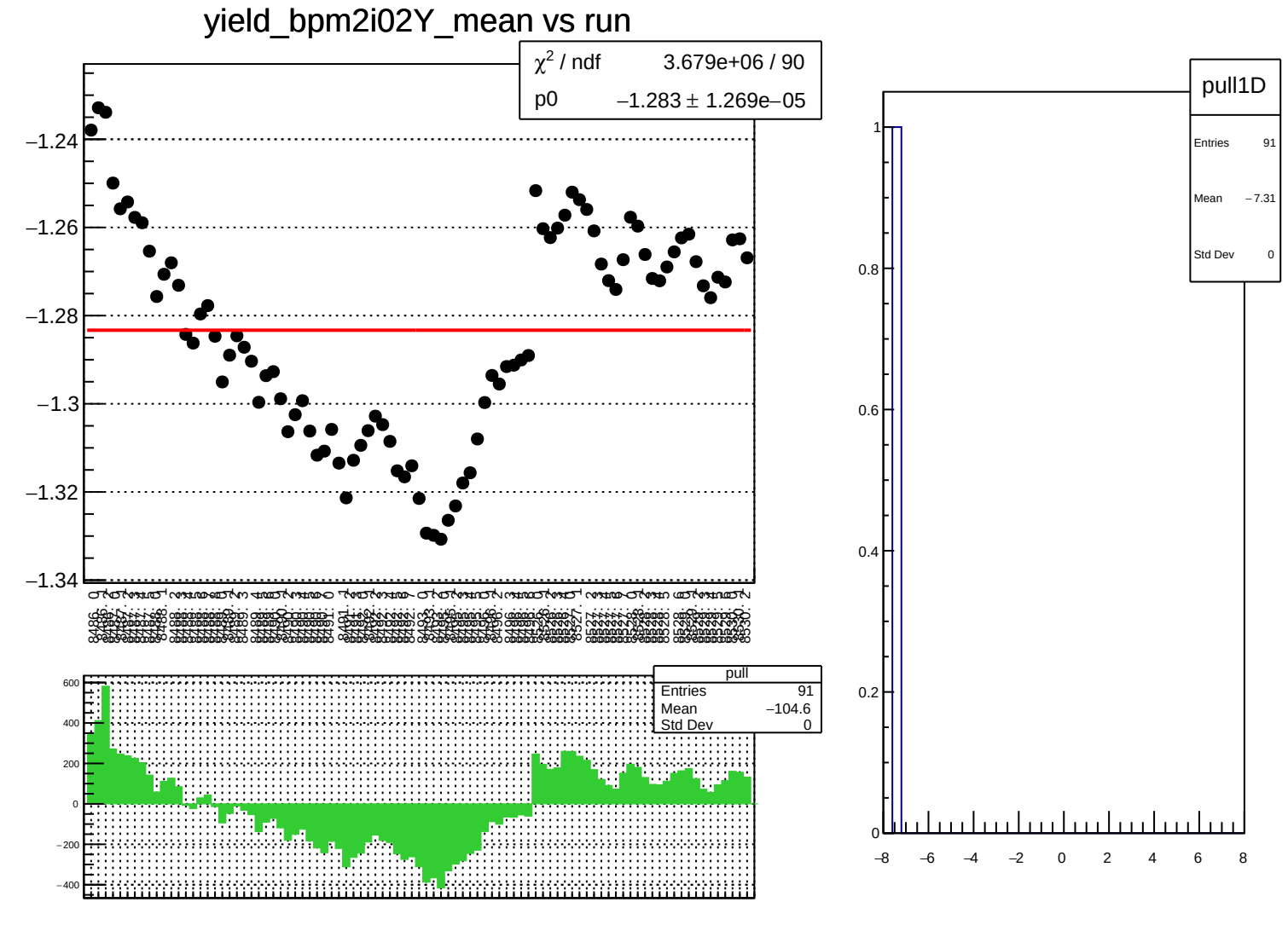

pull1D
Entries 91
Mean −1.354
Std Dev 5.247
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

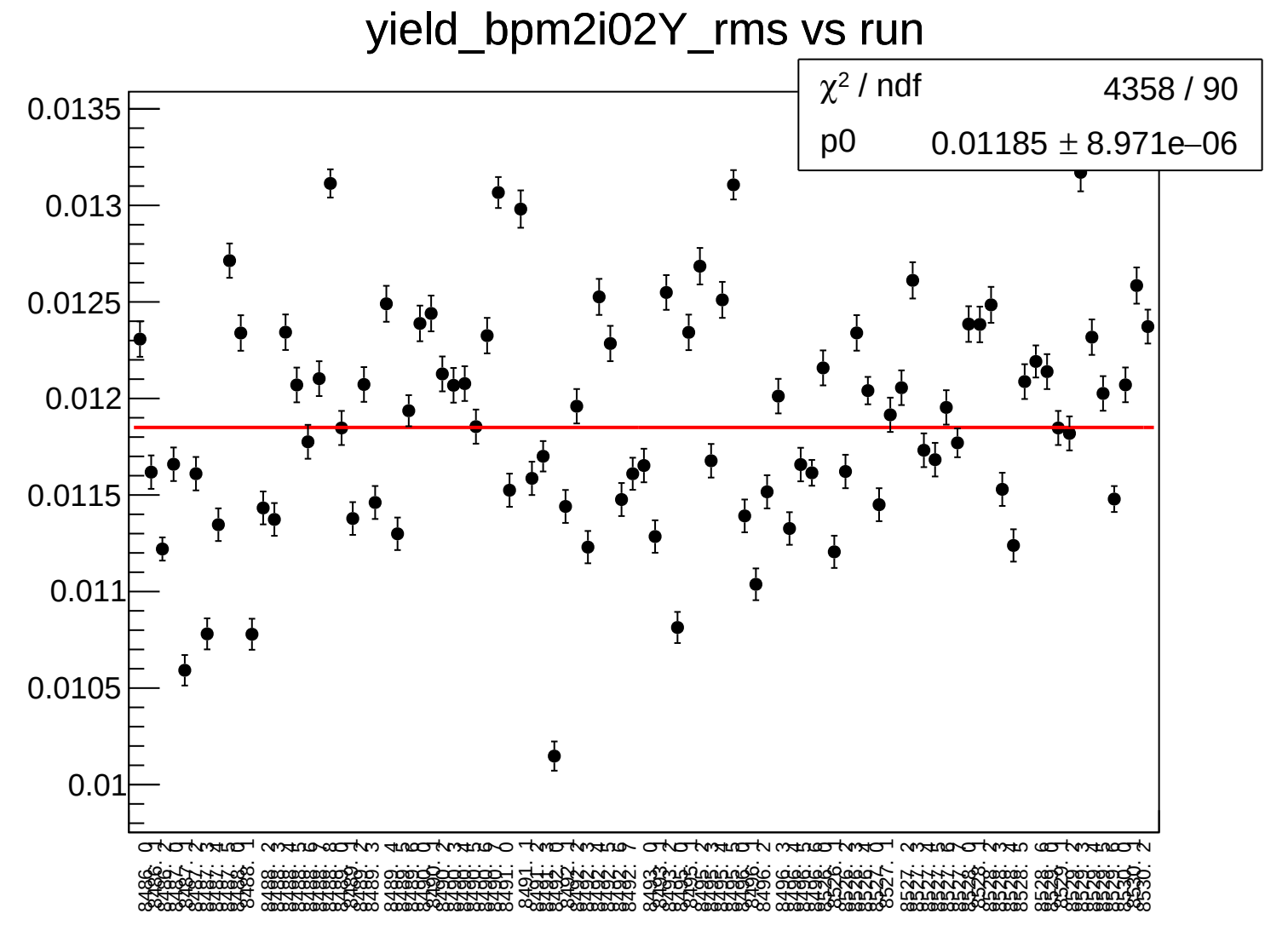

yield_bpm2i01Y_rms vs run
χ² / ndf 6187 / 90
p0 0.003961 ± 3e–06
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034

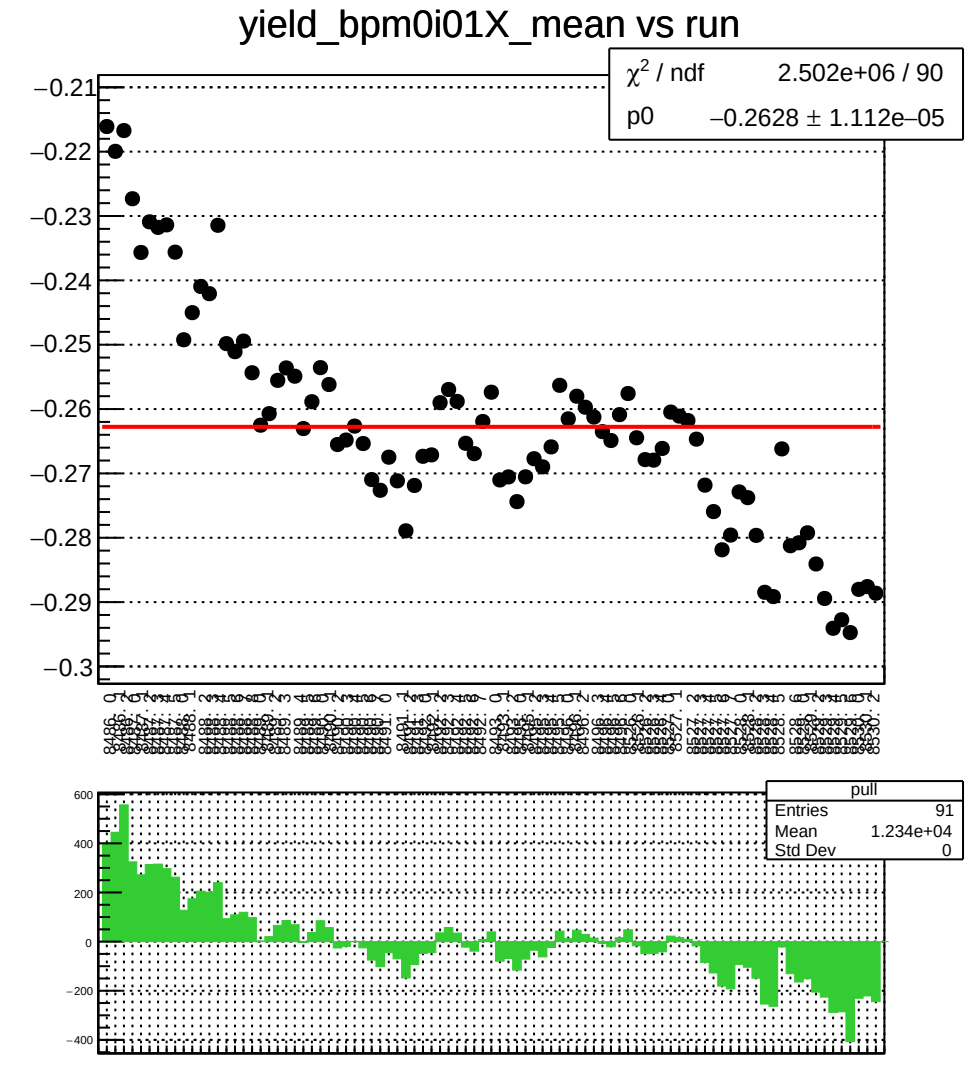

yield_bpm2i02X_mean vs run
χ² / ndf 2.367e+06 / 90
p0 −0.02583 ± 1.448e−05
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 91
Mean −547.6
Std Dev 0
300
200
100
0
−100
−200

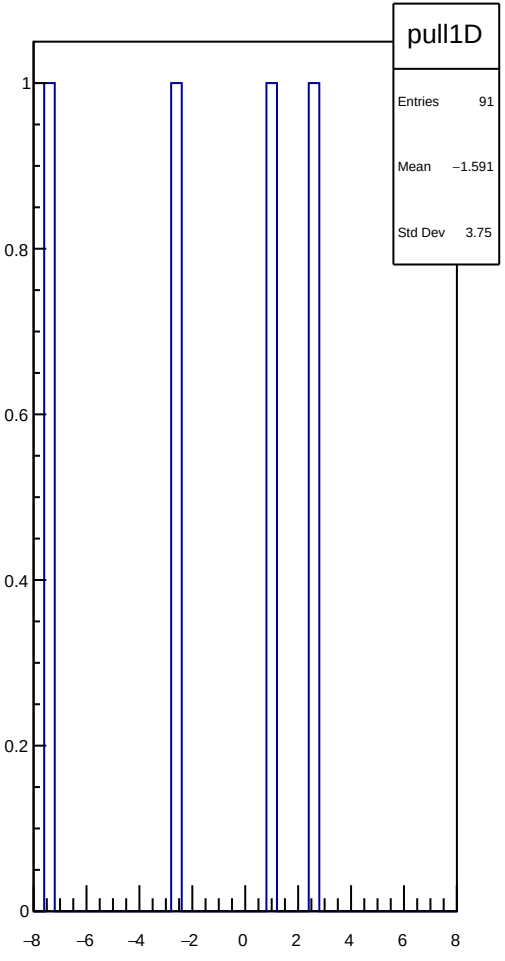

pull1D
Entries 91
Mean 2.44
Std Dev 1.505
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

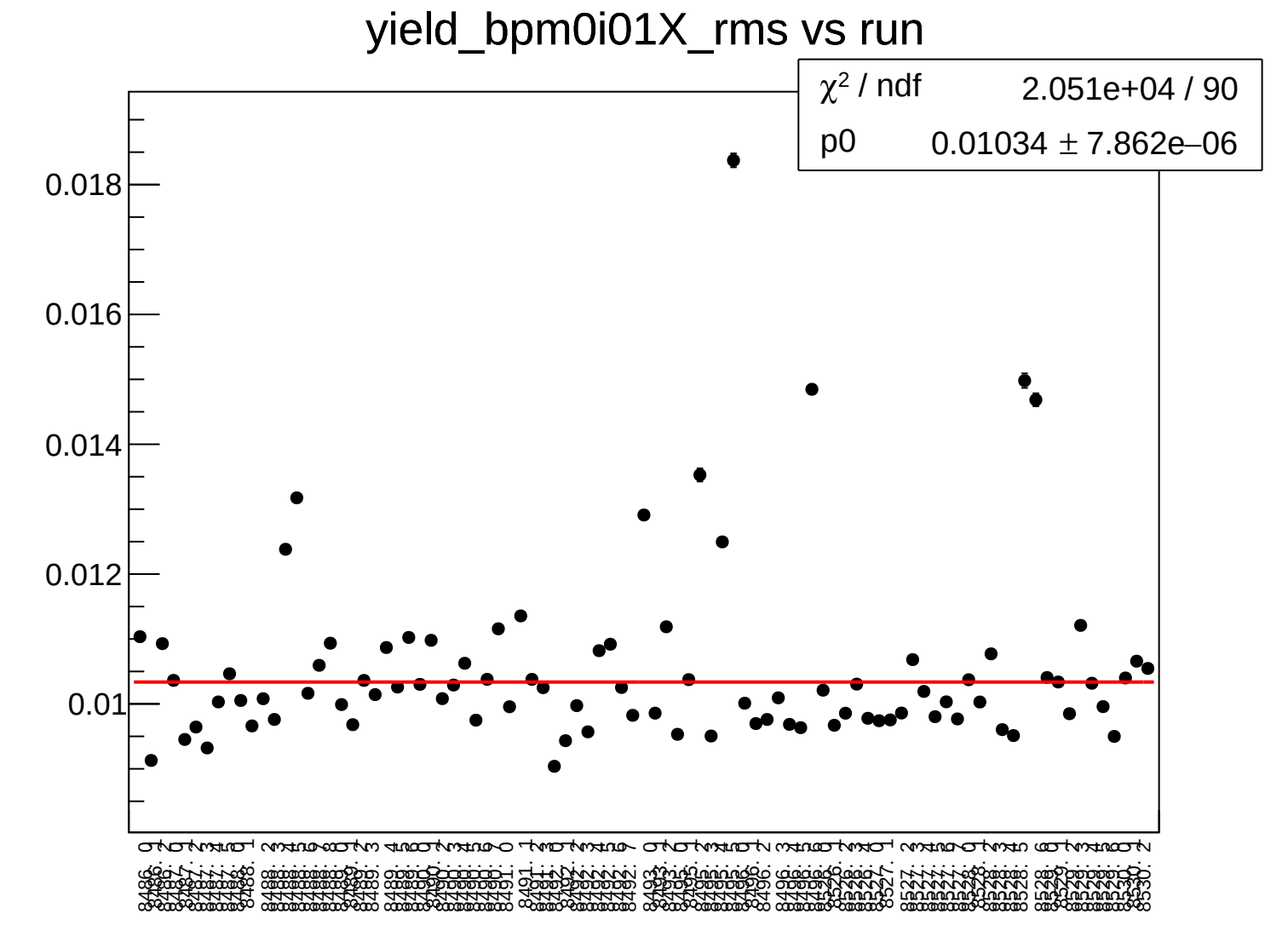

yield_bpm2i02X_rms vs run
χ² / ndf 2.247e+04 / 90
p0 0.01346 ± 1.024e−05
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

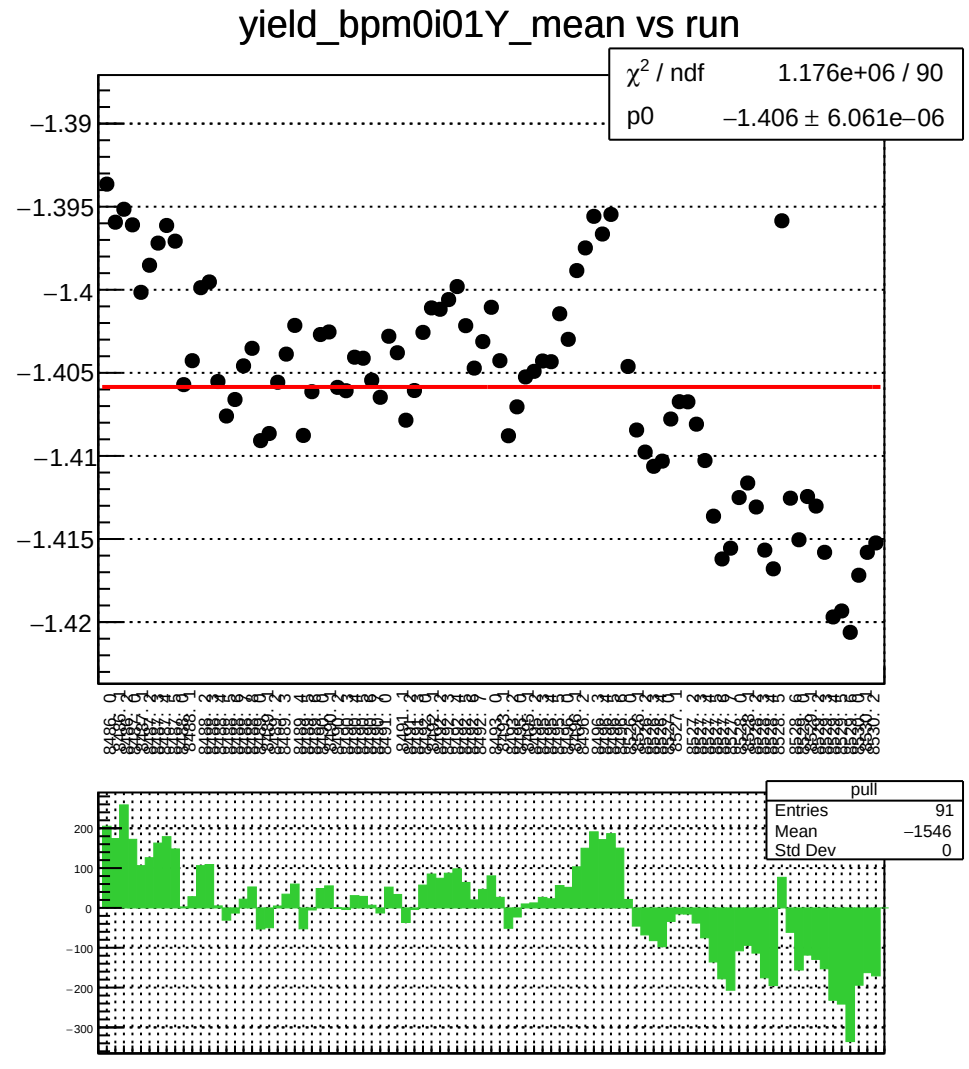

yield_bpm2i02Y_mean vs run
χ² / ndf 3.679e+06 / 90
p0 −1.283 ± 1.269e−05
−1.24
−1.26
−1.28
−1.3
−1.32
−1.34
pull
Entries 91
Mean −104.6
Std Dev 0
600
400
200
0
−200
−400
pull1D
Entries 91
Mean −7.31
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

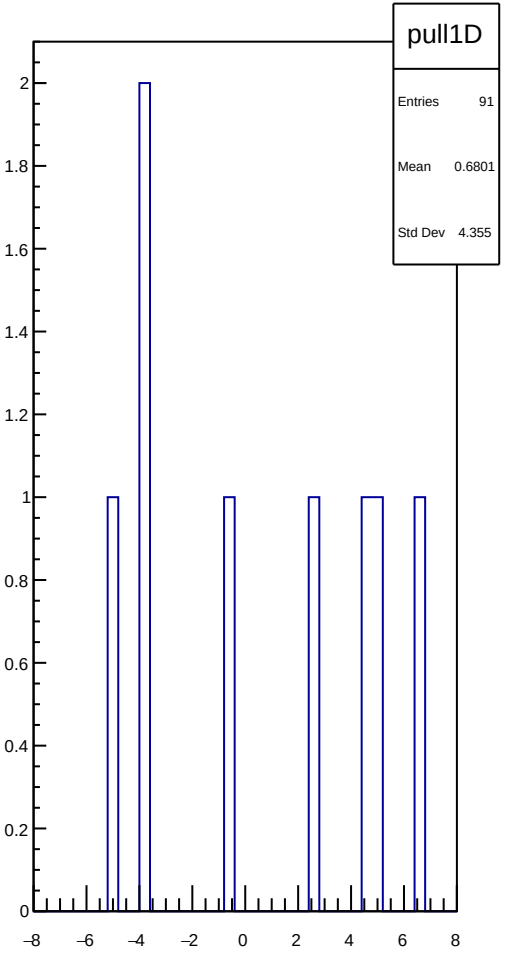

yield_bpm2i02Y_rms vs run
χ² / ndf 4358 / 90
p0 0.01185 ± 8.971e–06
0.0135
0.013
0.0125
0.012
0.0115
0.011
0.0105
0.01

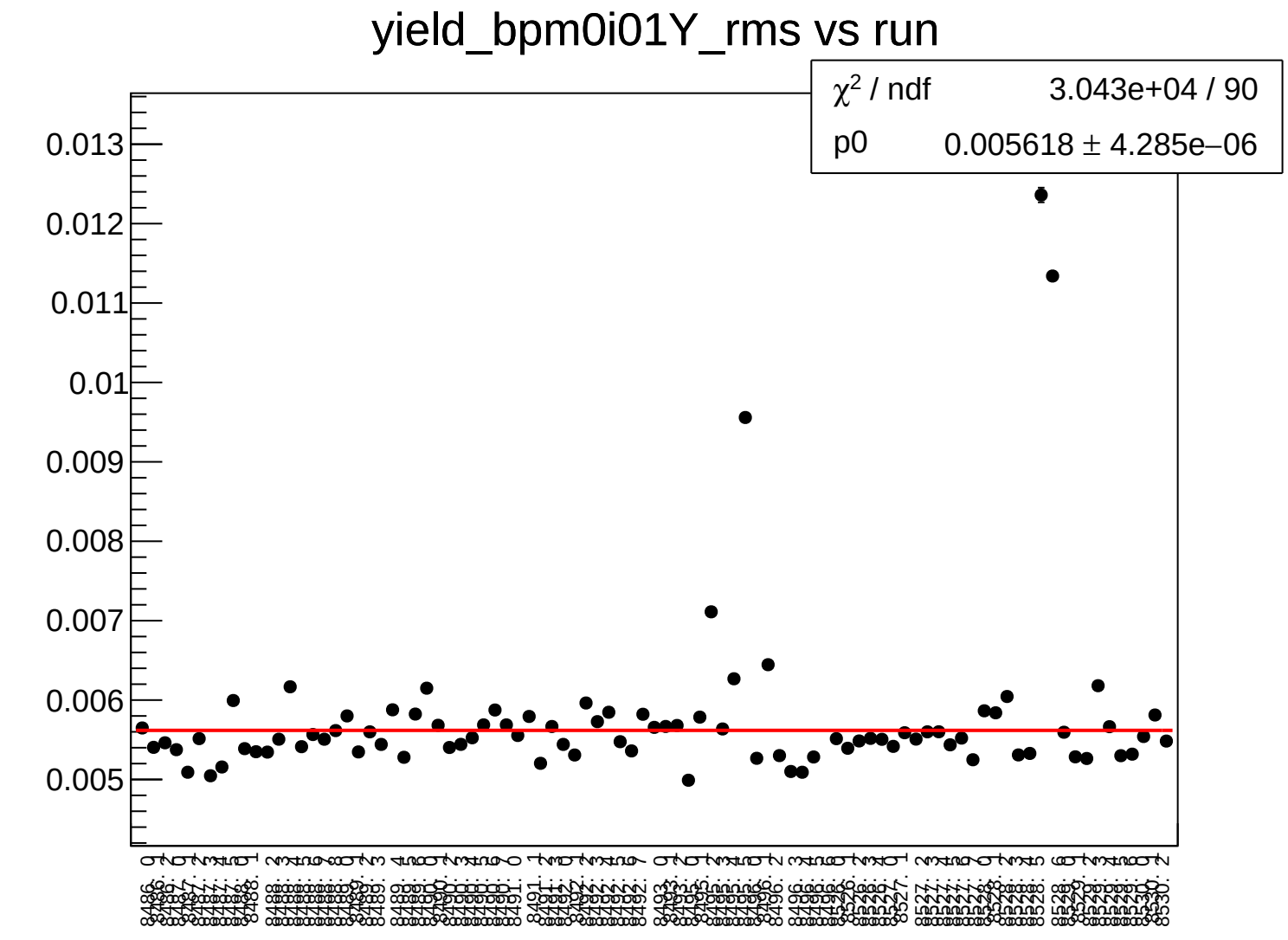

yield_bpm0i01X_mean vs run
χ² / ndf 2.502e+06 / 90
p0 −0.2628 ± 1.112e−05
−0.21
−0.22
−0.23
−0.24
−0.25
−0.26
−0.27
−0.28
−0.29
−0.3
pull
Entries 91
Mean 1.234e+04
Std Dev 0
600
400
200
0
−200
−400

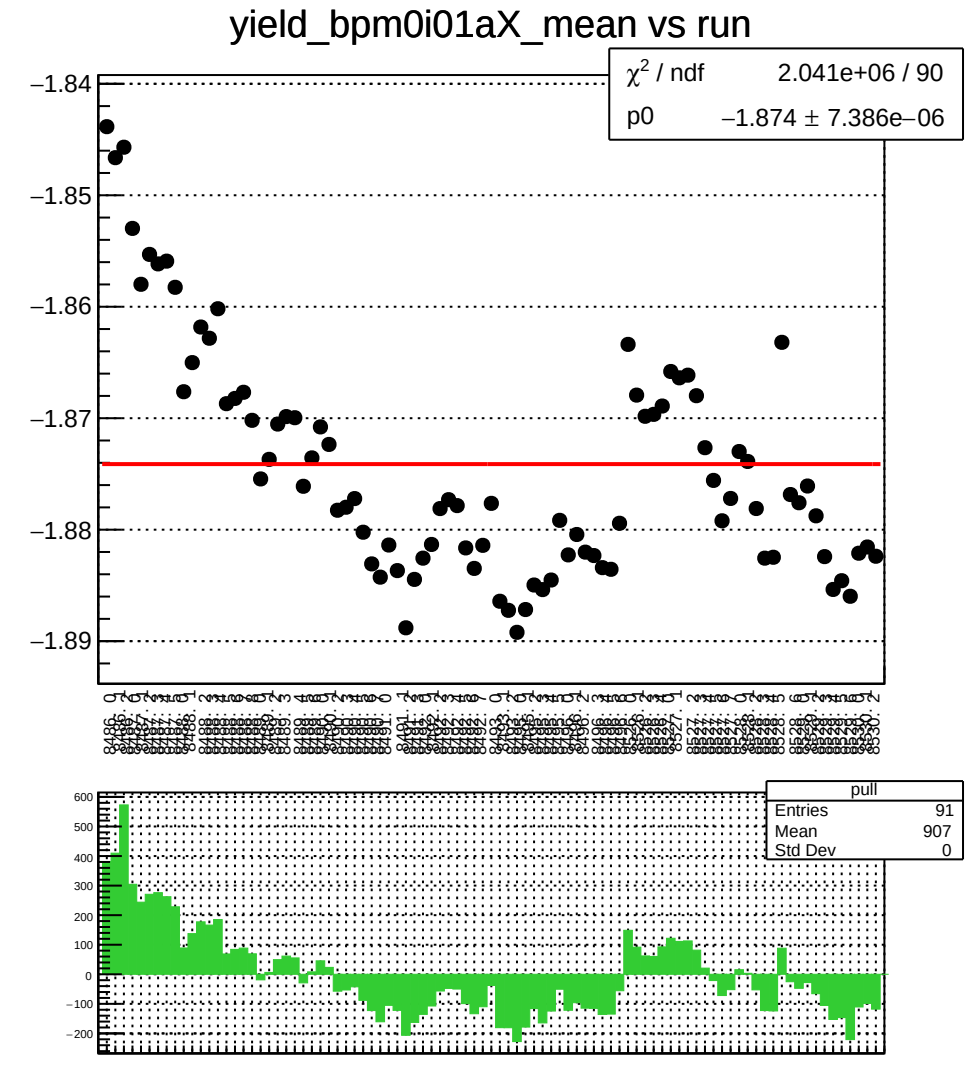

pull1D
Entries 91
Mean −1.591
Std Dev 3.75
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

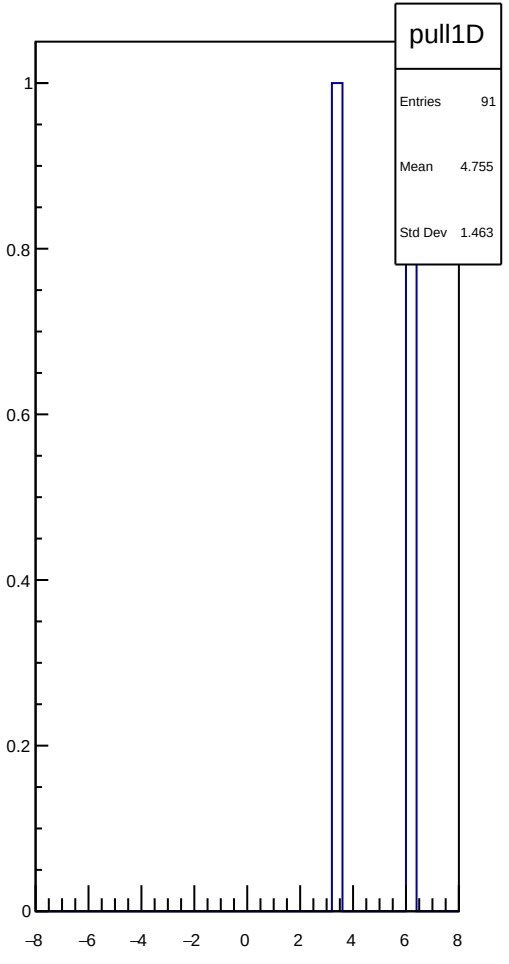

yield_bpm0i01X_rms vs run
χ² / ndf 2.051e+04 / 90
p0 0.01034 ± 7.862e–06
0.018
0.016
0.014
0.012
0.01

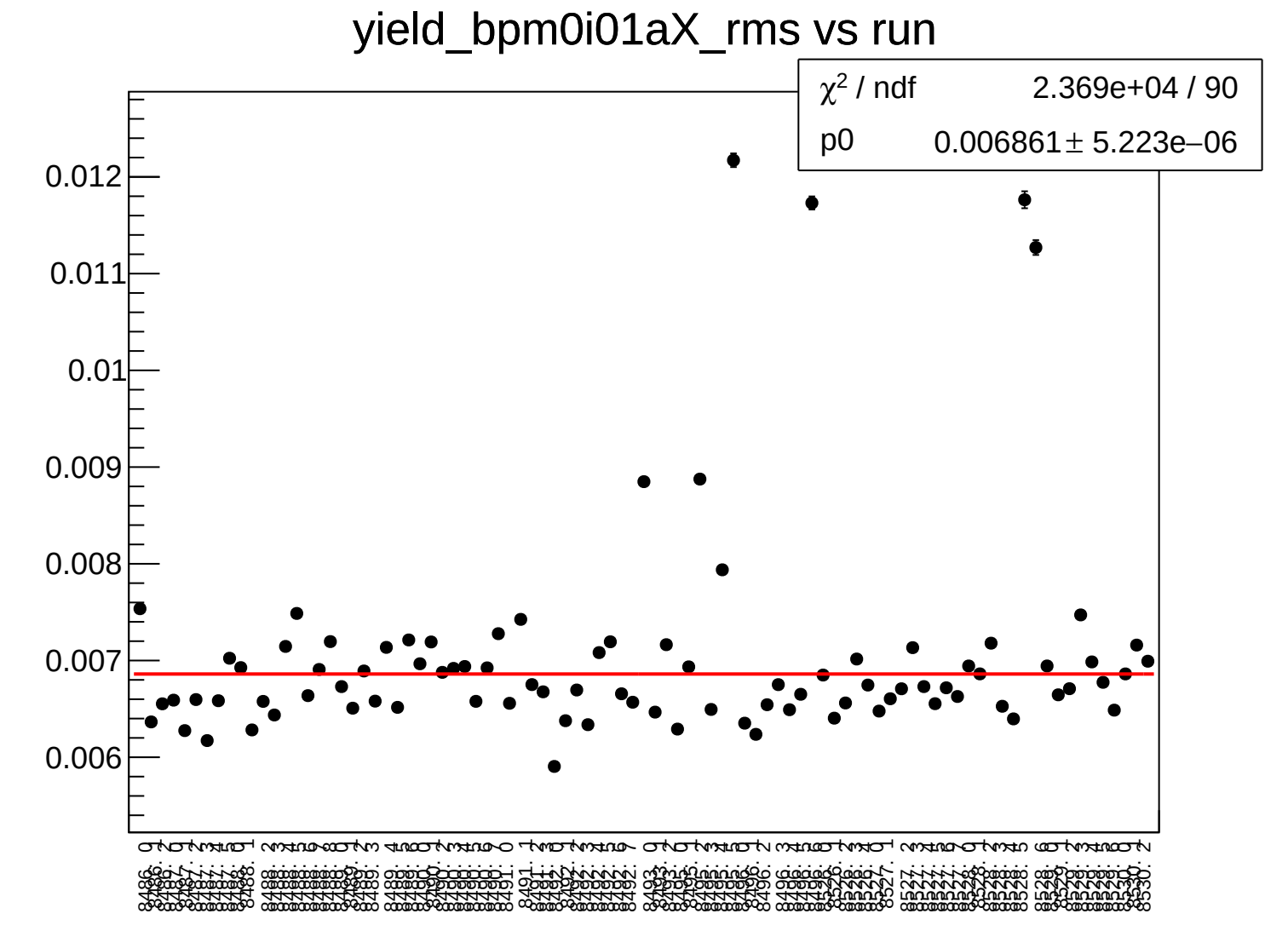

yield_bpm0i01Y_mean vs run
χ² / ndf 1.176e+06 / 90
p0 −1.406 ± 6.061e−06
−1.39
−1.395
−1.4
−1.405
−1.41
−1.415
−1.42
pull
Entries 91
Mean −1546
Std Dev 0
200
100
0
−100
−200
−300

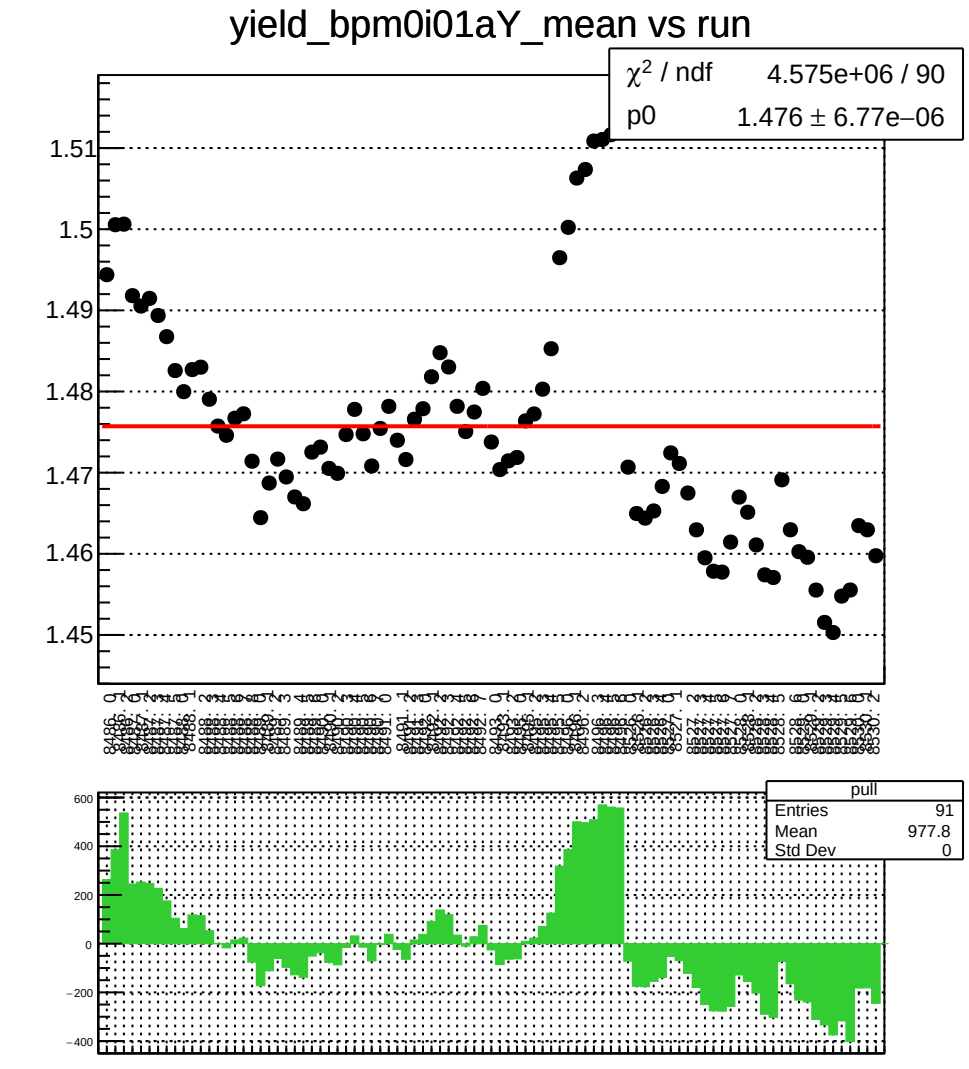

pull1D
Entries 91
Mean 0.6801
Std Dev 4.355
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

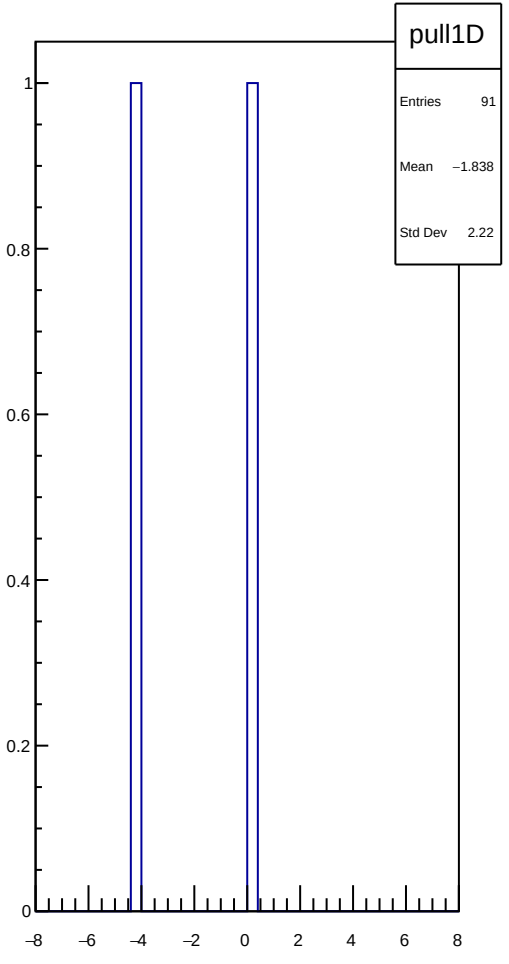

yield_bpm0i01Y_rms vs run
χ² / ndf 3.043e+04 / 90
p0 0.005618 ± 4.285e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005

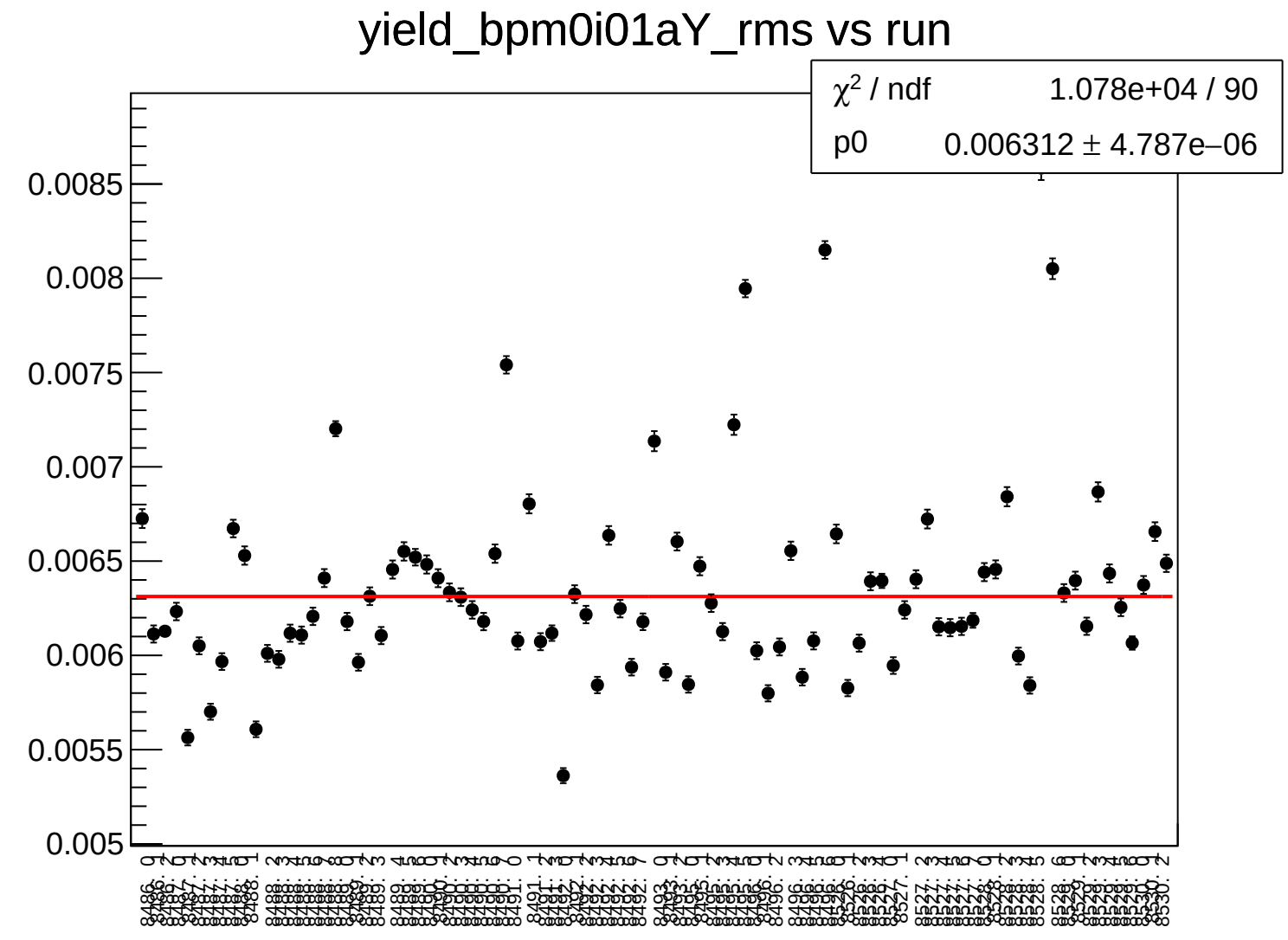

yield_bpm0i01aX_mean vs run
χ² / ndf 2.041e+06 / 90
p0 −1.874 ± 7.386e−06
−1.84
−1.85
−1.86
−1.87
−1.88
−1.89
pull
Entries 91
Mean 907
Std Dev 0
600
500
400
300
200
100
0
−100
−200

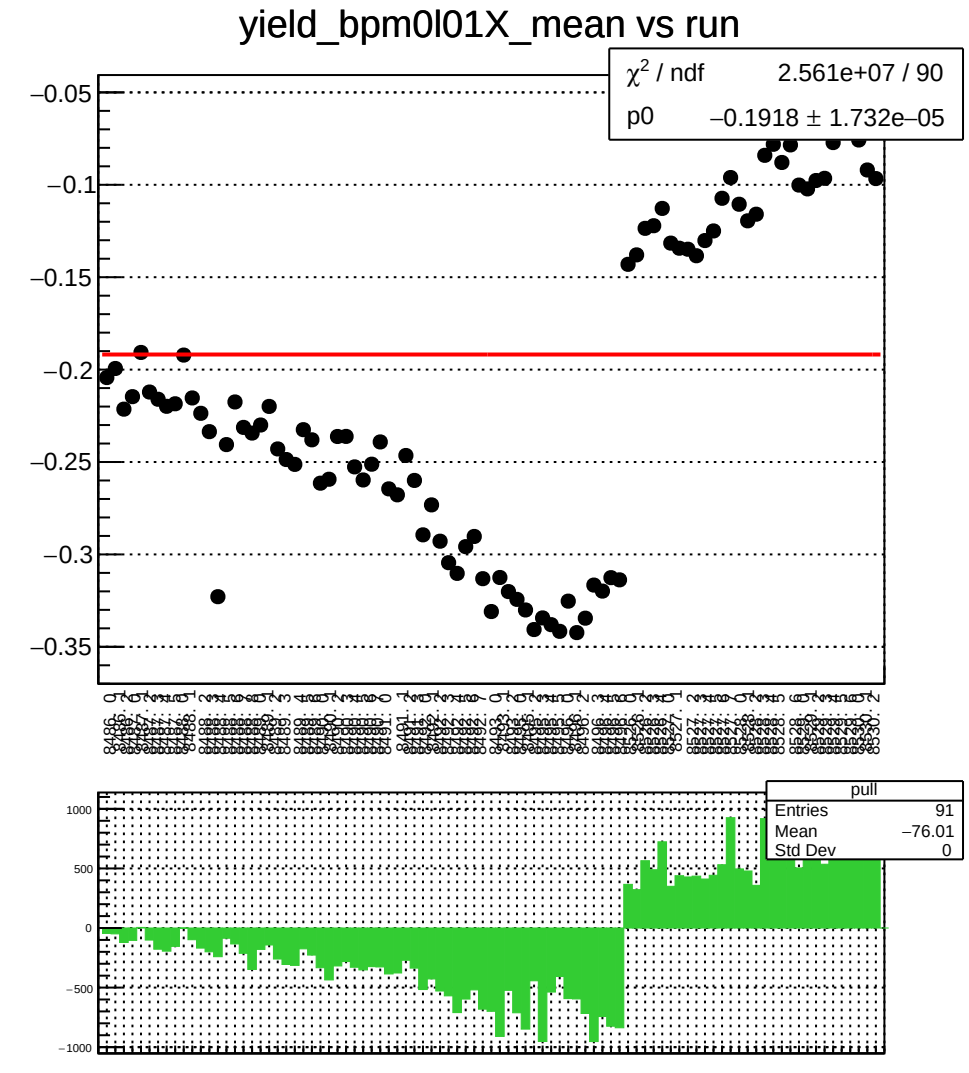

pull1D
Entries 91
Mean 4.755
Std Dev 1.463
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

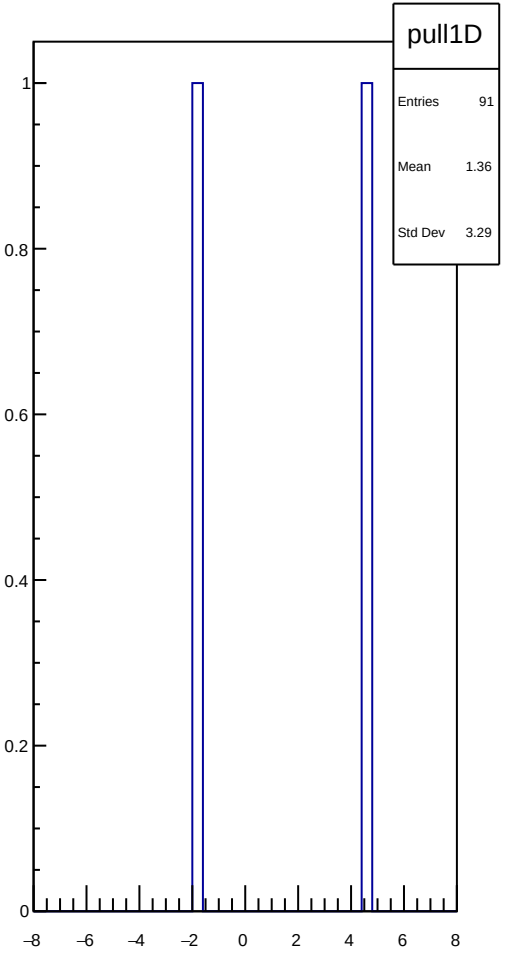

yield_bpm0i01aX_rms vs run
χ² / ndf 2.369e+04 / 90
p0 0.006861 ± 5.223e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006

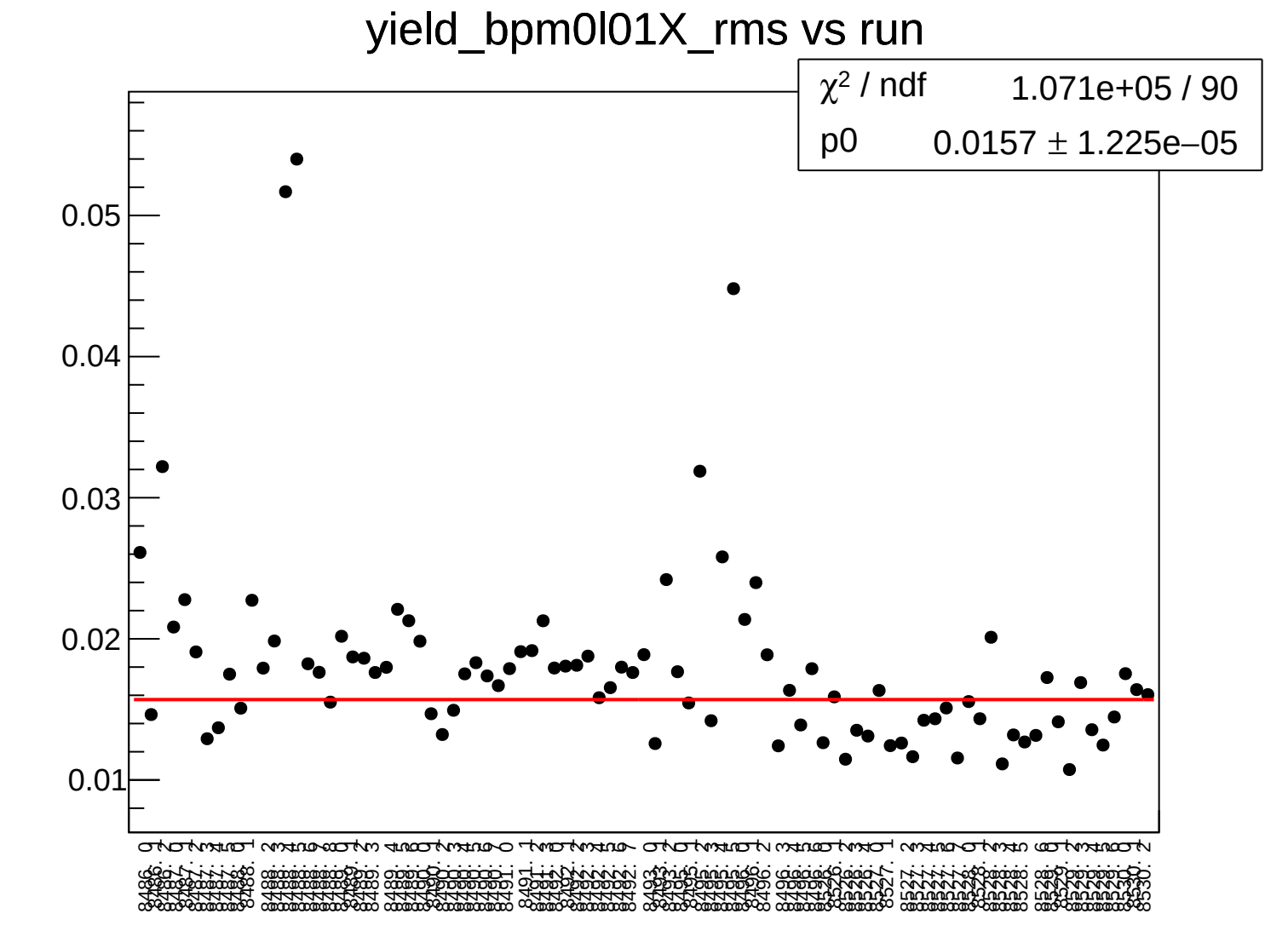

yield_bpm0i01aY_mean vs run
χ² / ndf 4.575e+06 / 90
p0 1.476 ± 6.77e−06
1.51
1.5
1.49
1.48
1.47
1.46
1.45
pull
Entries 91
Mean 977.8
Std Dev 0
600
400
200
0
−200
−400

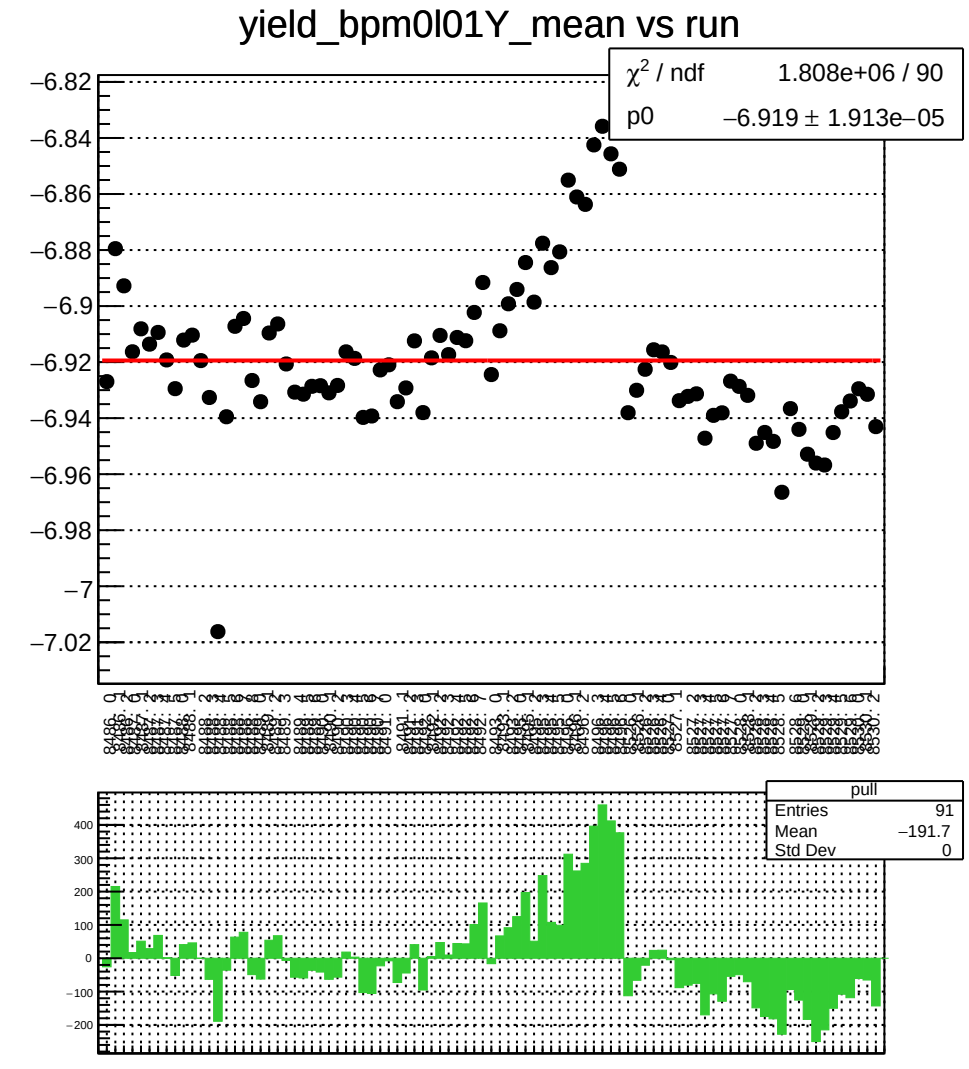

pull1D
Entries 91
Mean −1.838
Std Dev 2.22
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

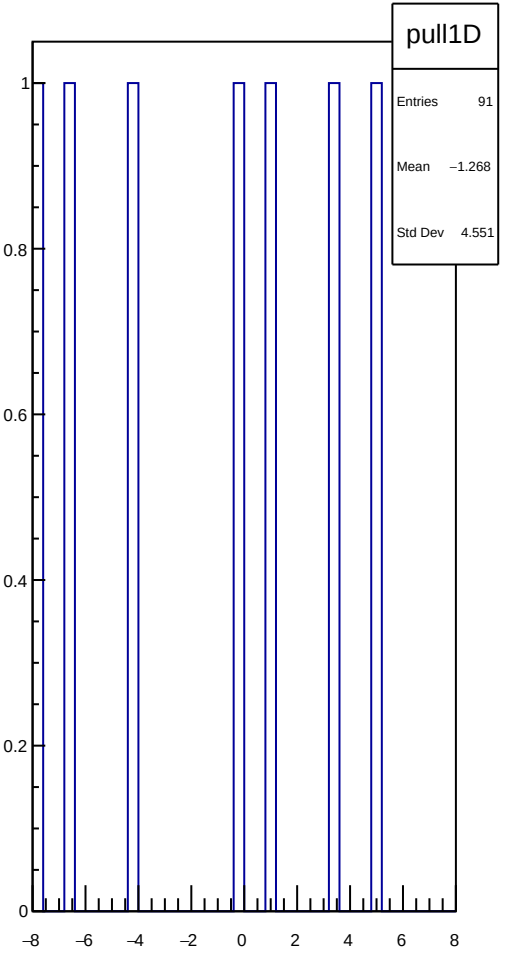

yield_bpm0i01aY_rms vs run
χ² / ndf 1.078e+04 / 90
p0 0.006312 ± 4.787e−06
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005

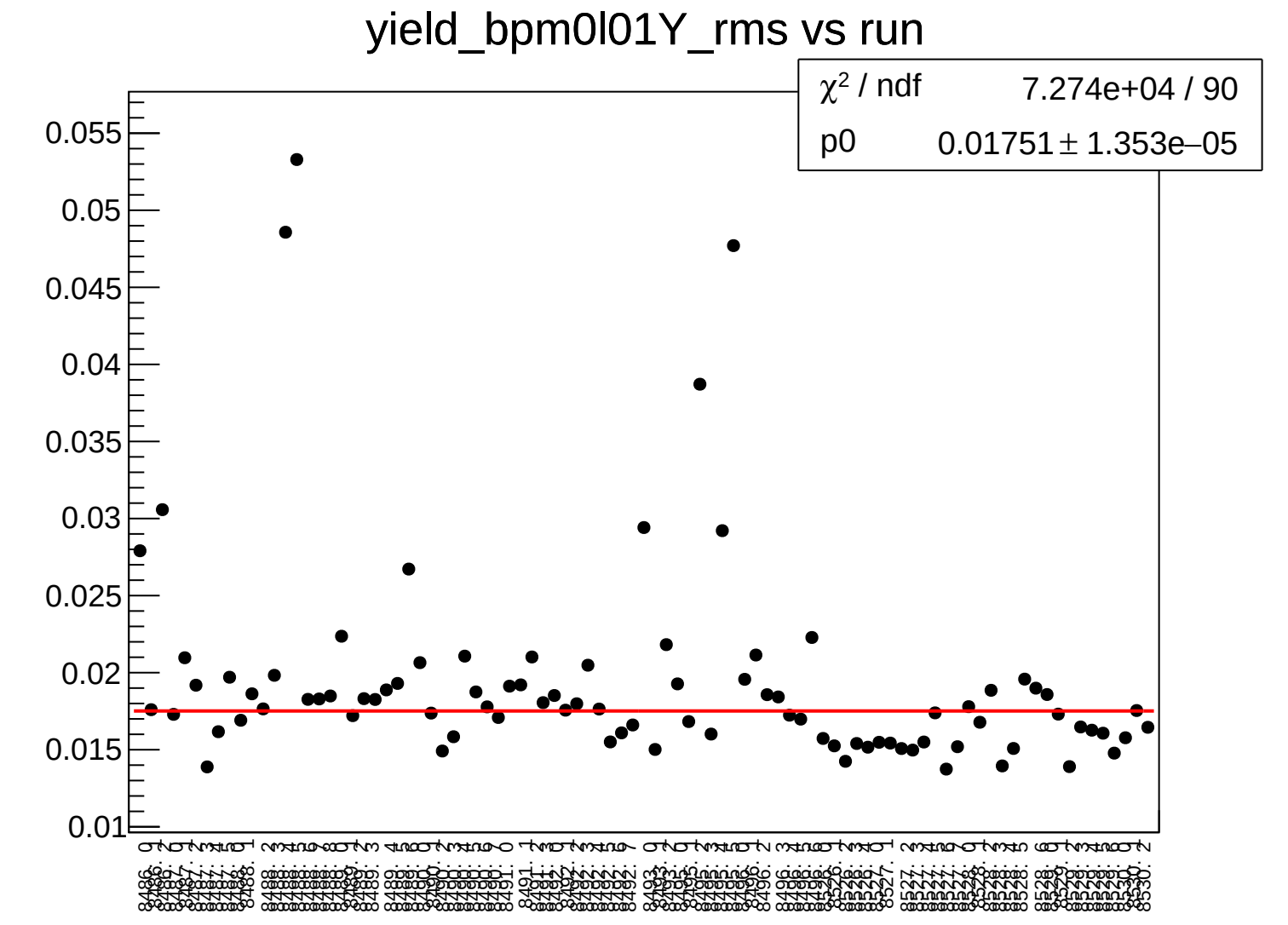

yield_bpm0l01X_mean vs run
χ² / ndf 2.561e+07 / 90
p0 −0.1918 ± 1.732e−05
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
−0.35
pull
Entries 91
Mean −76.01
Std Dev 0
1000
500
0
−500
−1000

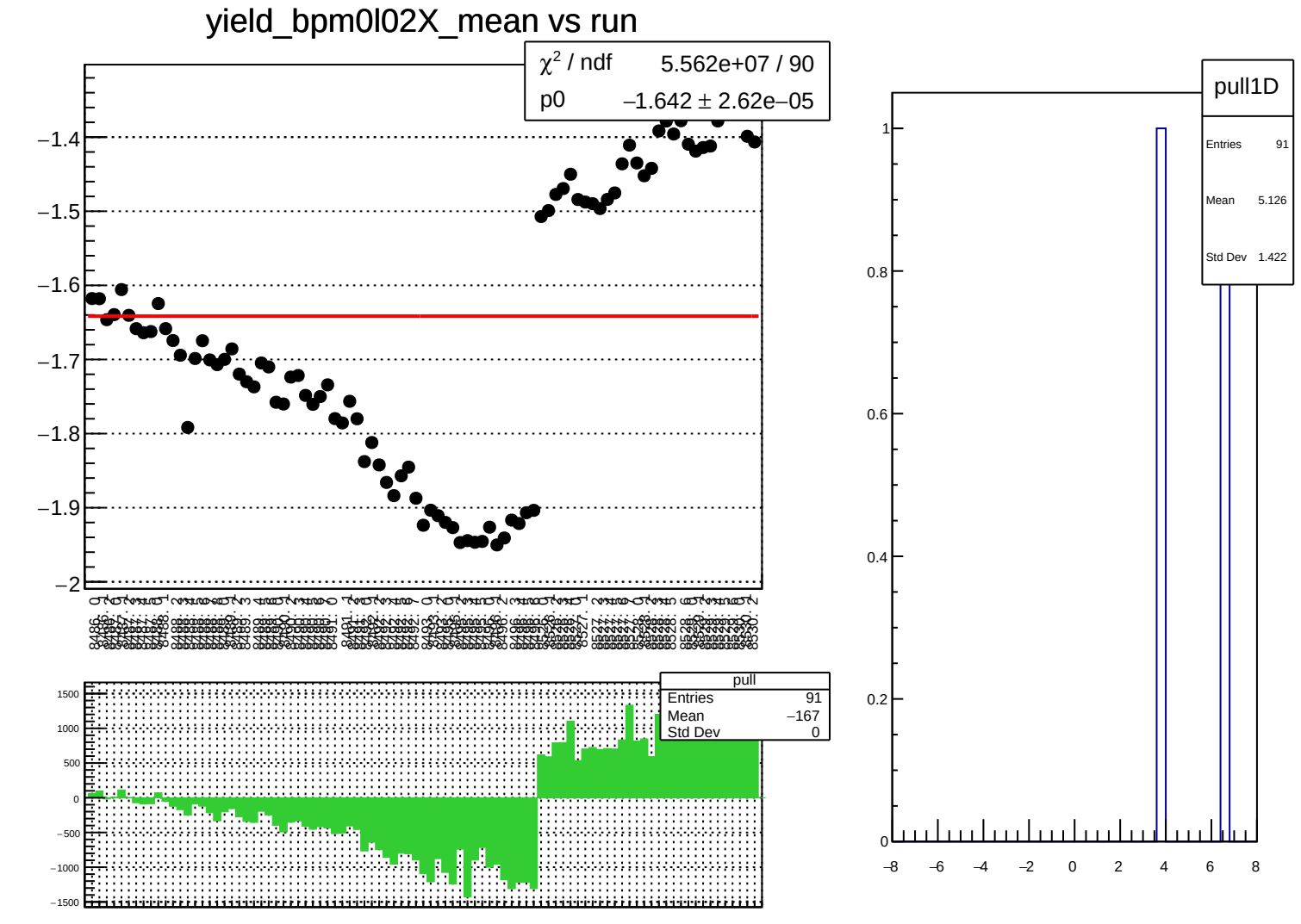

pull1D
Entries 91
Mean 1.36
Std Dev 3.29
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

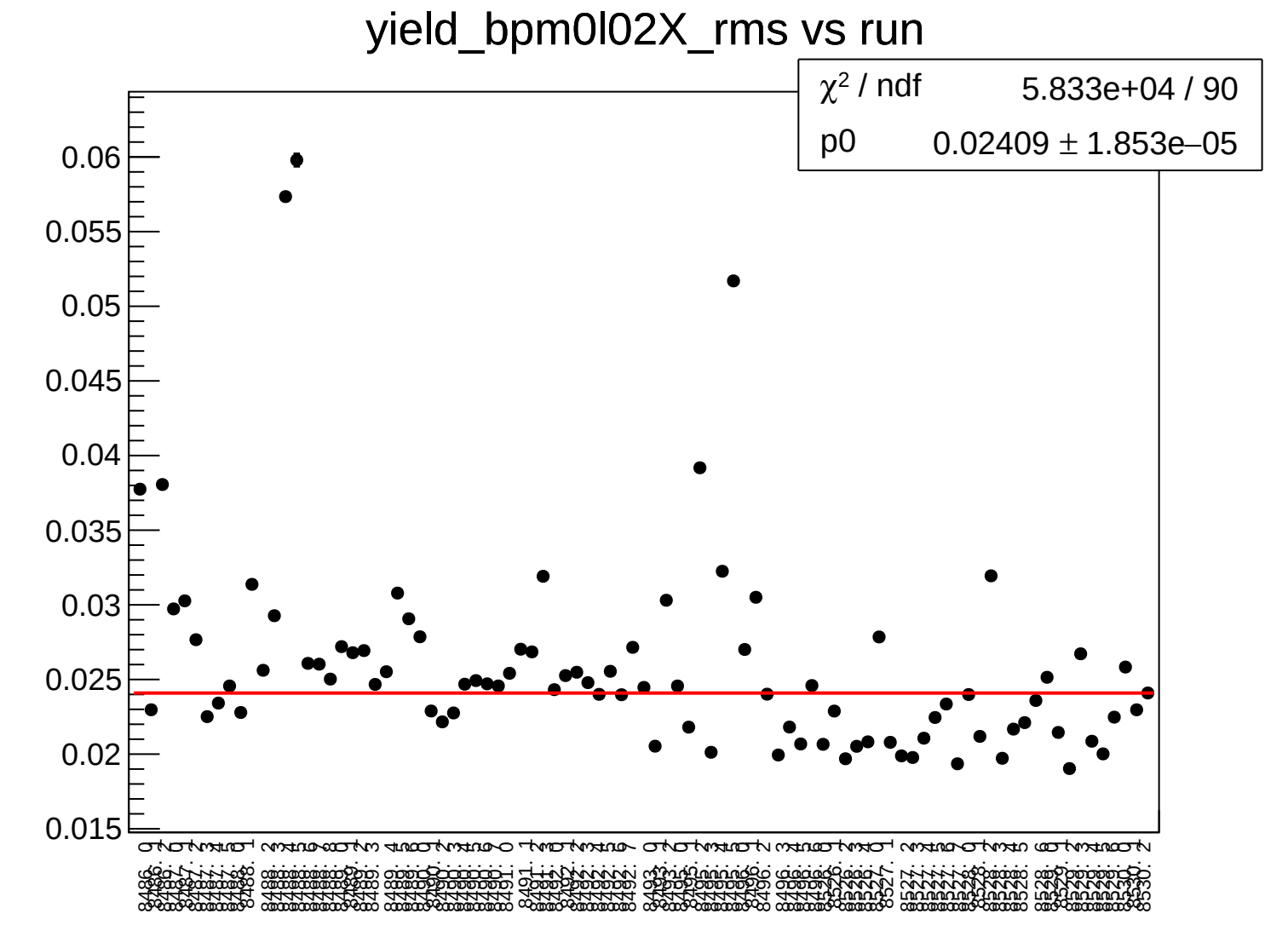

yield_bpm0l01X_rms vs run
χ^2 / ndf 1.071e+05 / 90
p0 0.0157 ± 1.225e−05
0.05
0.04
0.03
0.02
0.01

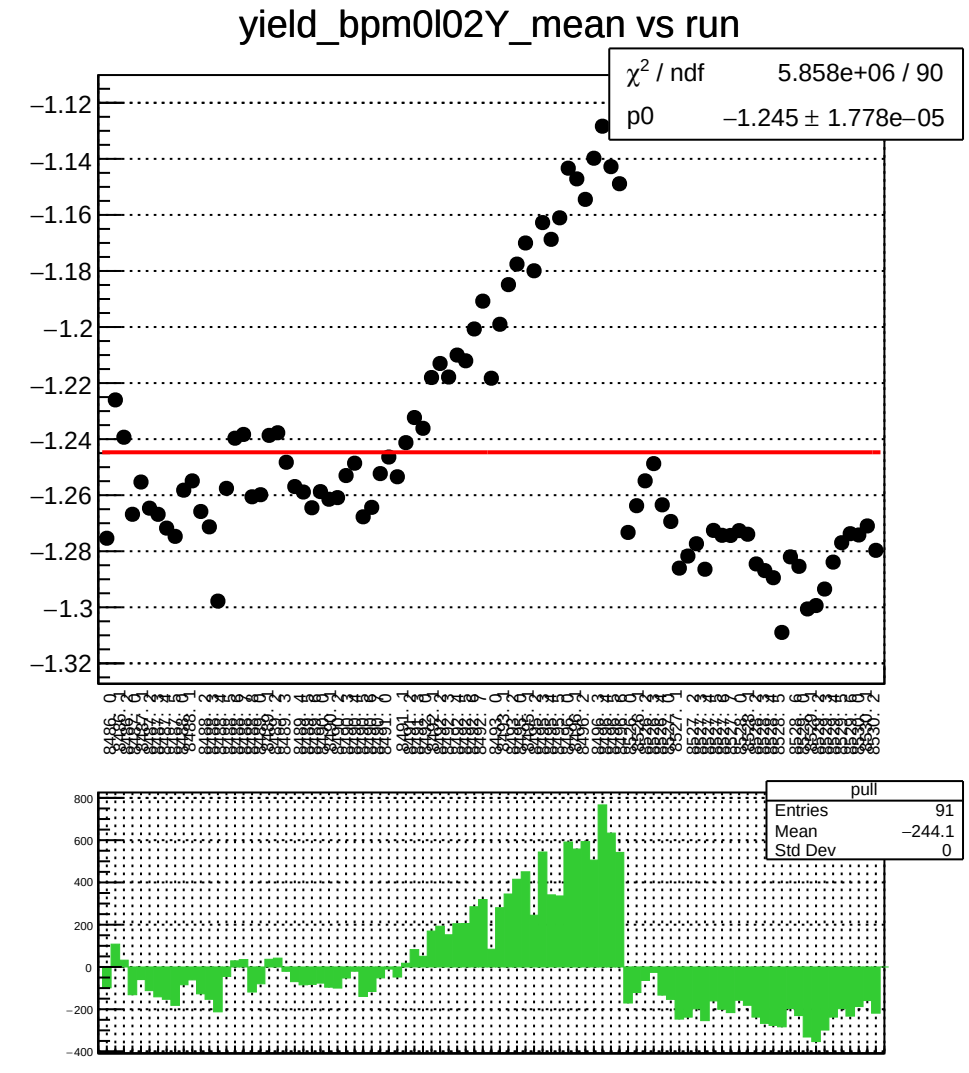

yield_bpm0l01Y_mean vs run
χ² / ndf 1.808e+06 / 90
p0 −6.919 ± 1.913e−05
−6.82
−6.84
−6.86
−6.88
−6.9
−6.92
−6.94
−6.96
−6.98
−7
−7.02
pull
Entries 91
Mean −191.7
Std Dev 0
400
300
200
100
0
−100
−200

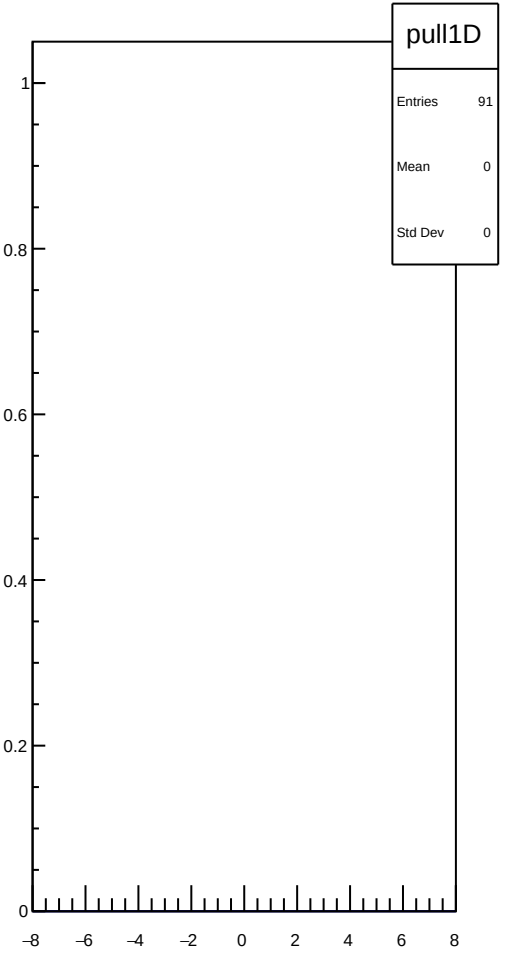

pull1D
Entries 91
Mean −1.268
Std Dev 4.551
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

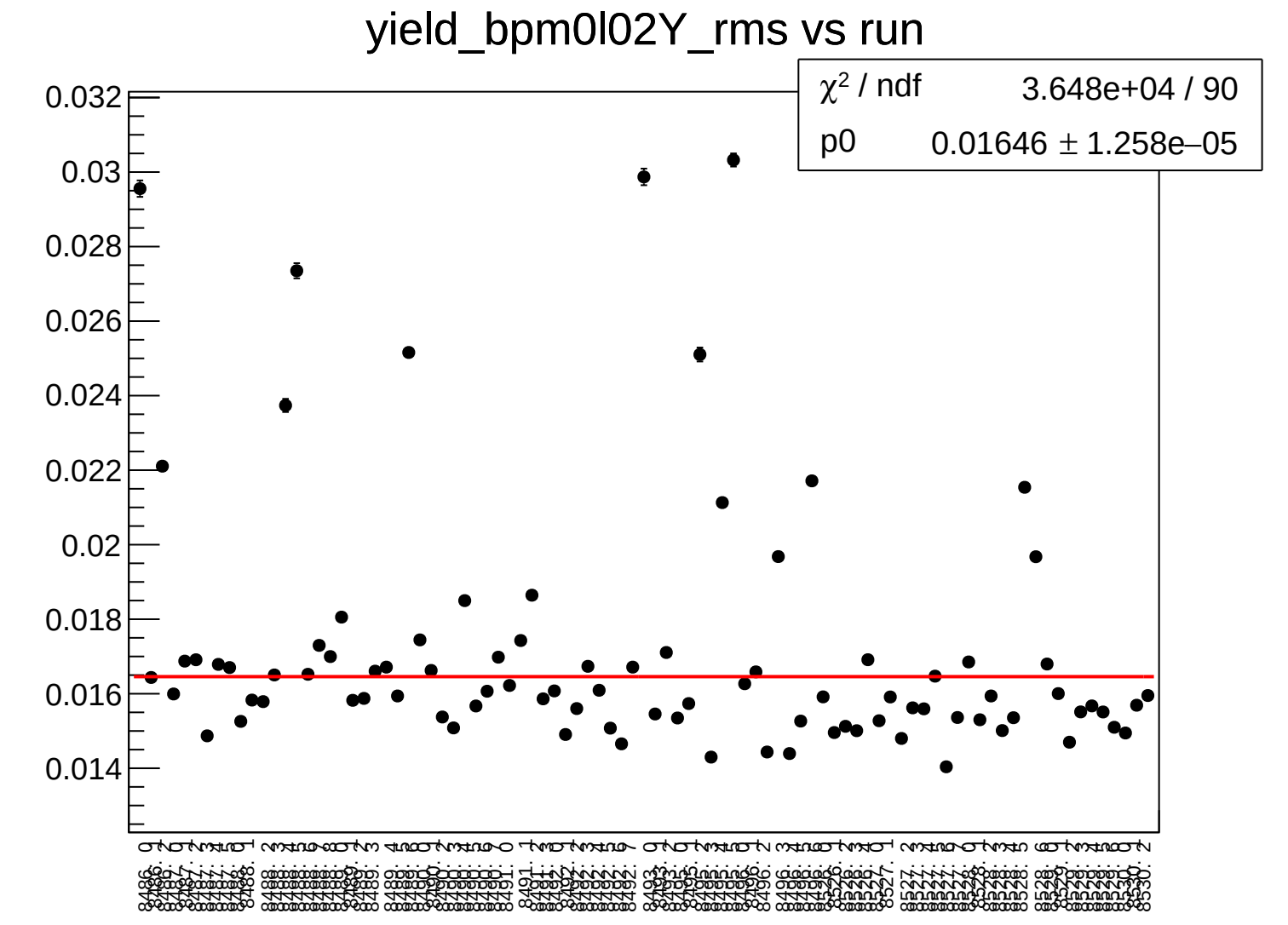

yield_bpm0l01Y_rms vs run
χ^2 / ndf 7.274e+04 / 90
p0 0.01751 ± 1.353e–05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

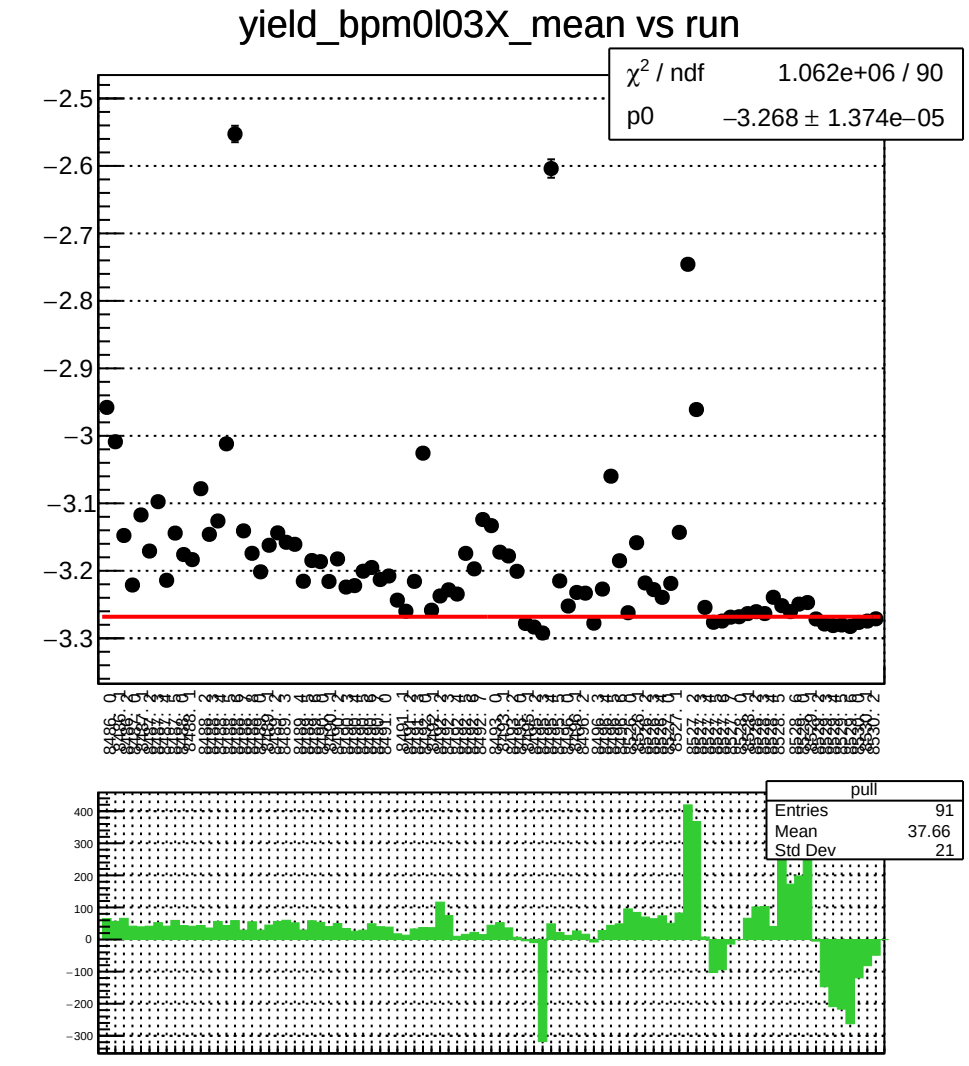

yield_bpm0l02X_mean vs run
χ² / ndf 5.562e+07 / 90
p0 −1.642 ± 2.62e−05
−1.4
−1.5
−1.6
−1.7
−1.8
−1.9
−2
pull
Entries 91
Mean −167
Std Dev 0
1500
1000
500
0
−500
−1000
−1500
pull1D
Entries 91
Mean 5.126
Std Dev 1.422
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

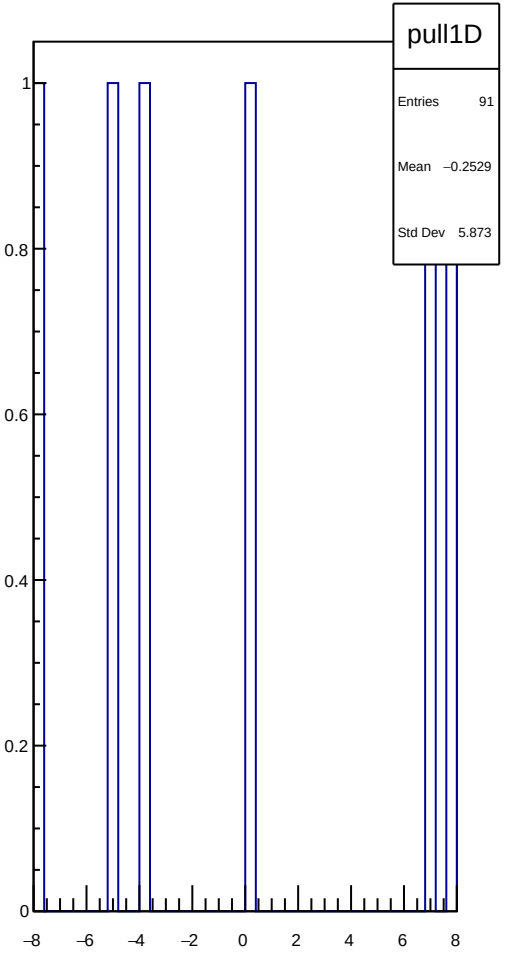

yield_bpm0l02X_rms vs run
χ² / ndf 5.833e+04 / 90
p0 0.02409 ± 1.853e–05
0.06
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

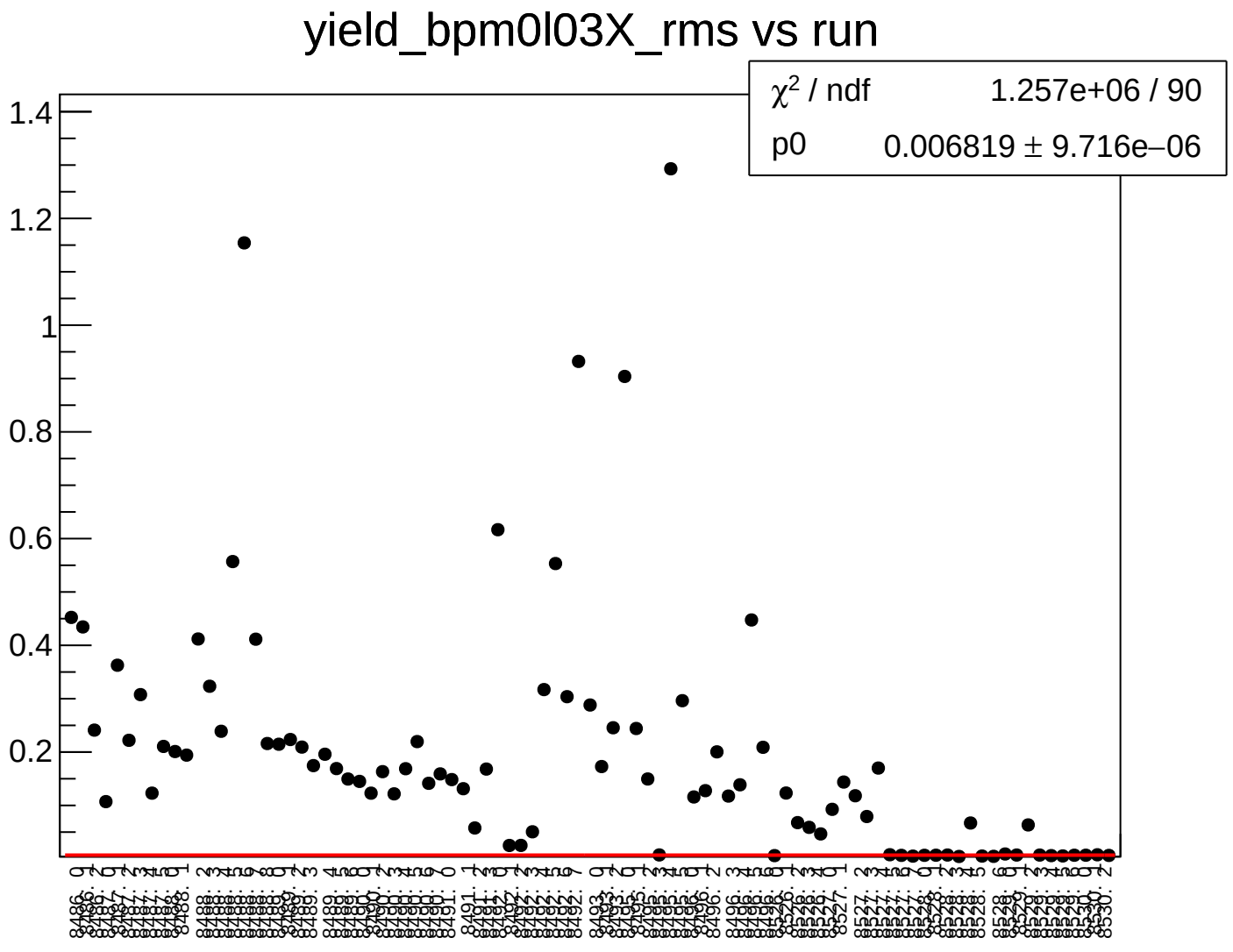

yield_bpm0l02Y_mean vs run
χ² / ndf 5.858e+06 / 90
p0 −1.245 ± 1.778e−05
−1.12
−1.14
−1.16
−1.18
−1.2
−1.22
−1.24
−1.26
−1.28
−1.3
−1.32
pull
Entries 91
Mean −244.1
Std Dev 0
800
600
400
200
0
−200
−400

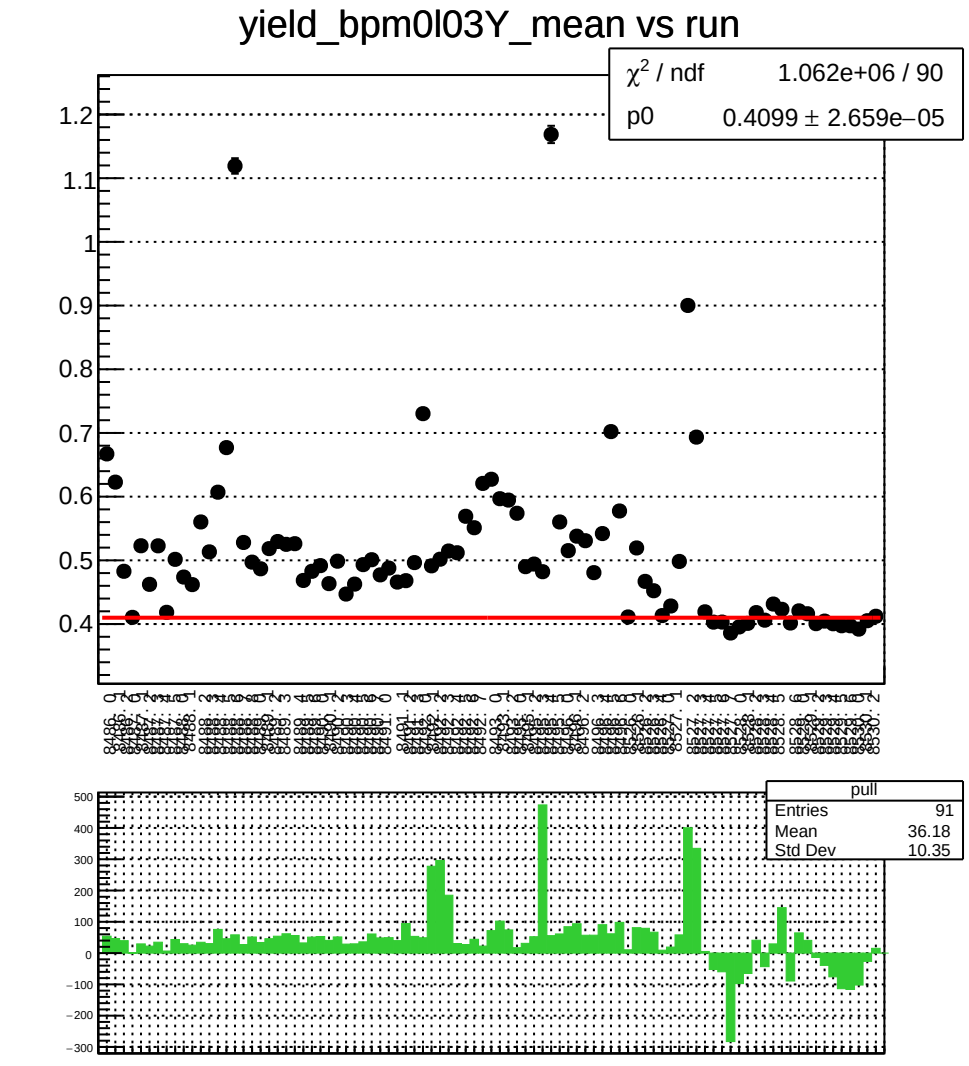

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

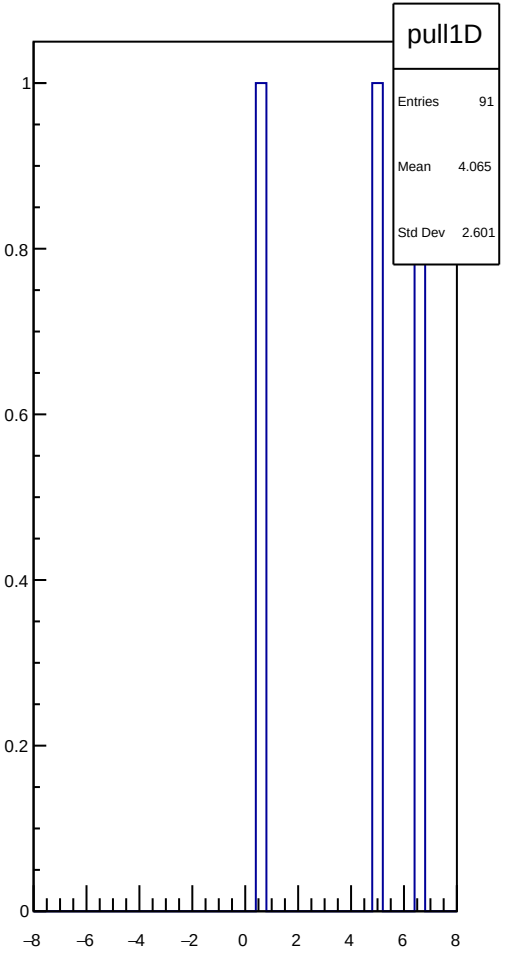

yield_bpm0l02Y_rms vs run
χ² / ndf 3.648e+04 / 90
p0 0.01646 ± 1.258e–05
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014

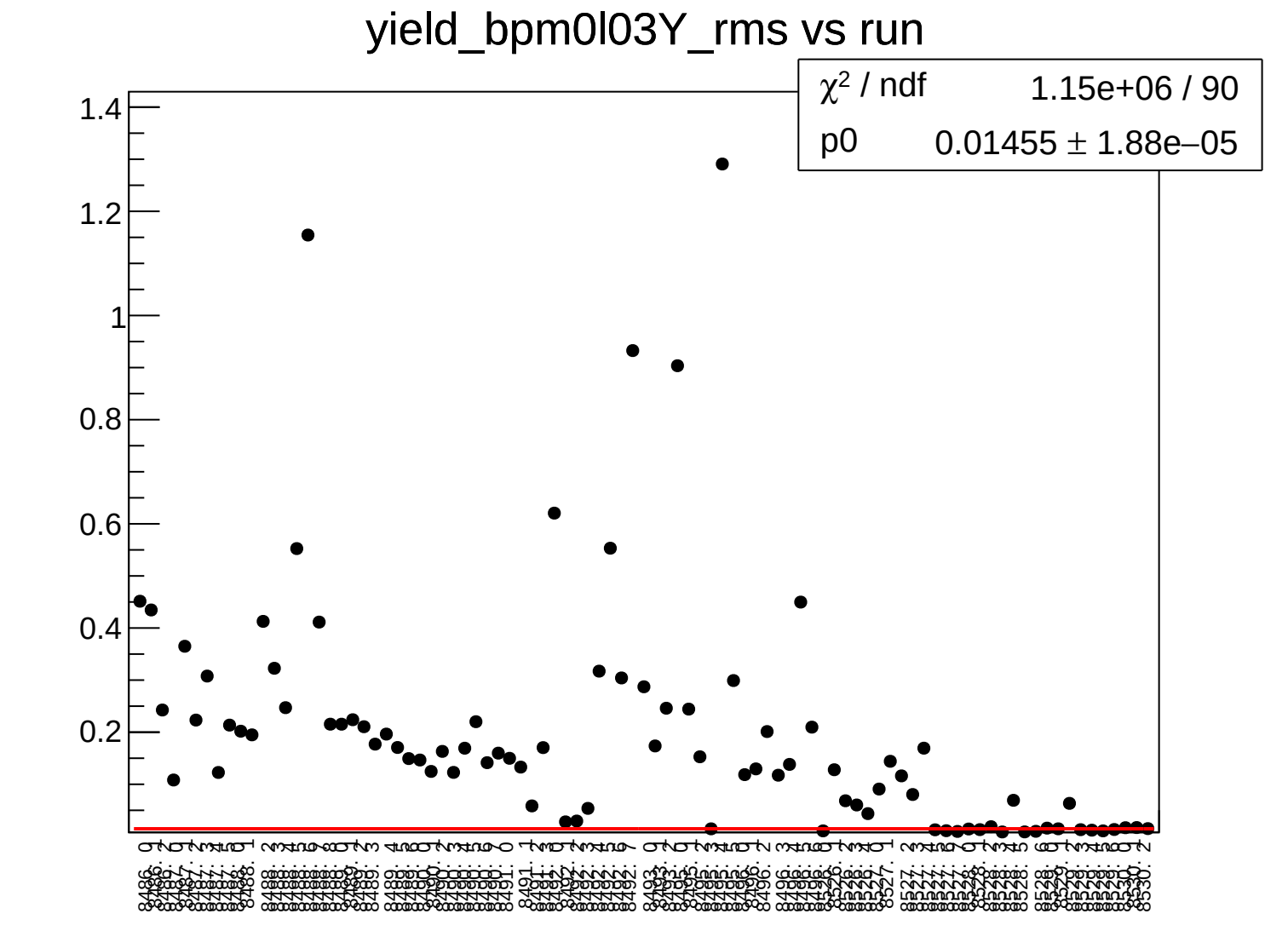

yield_bpm0l03X_mean vs run
χ² / ndf 1.062e+06 / 90
p0 −3.268 ± 1.374e−05
−2.5
−2.6
−2.7
−2.8
−2.9
−3
−3.1
−3.2
−3.3
pull
Entries 91
Mean 37.66
Std Dev 21
400
300
200
100
0
−100
−200
−300

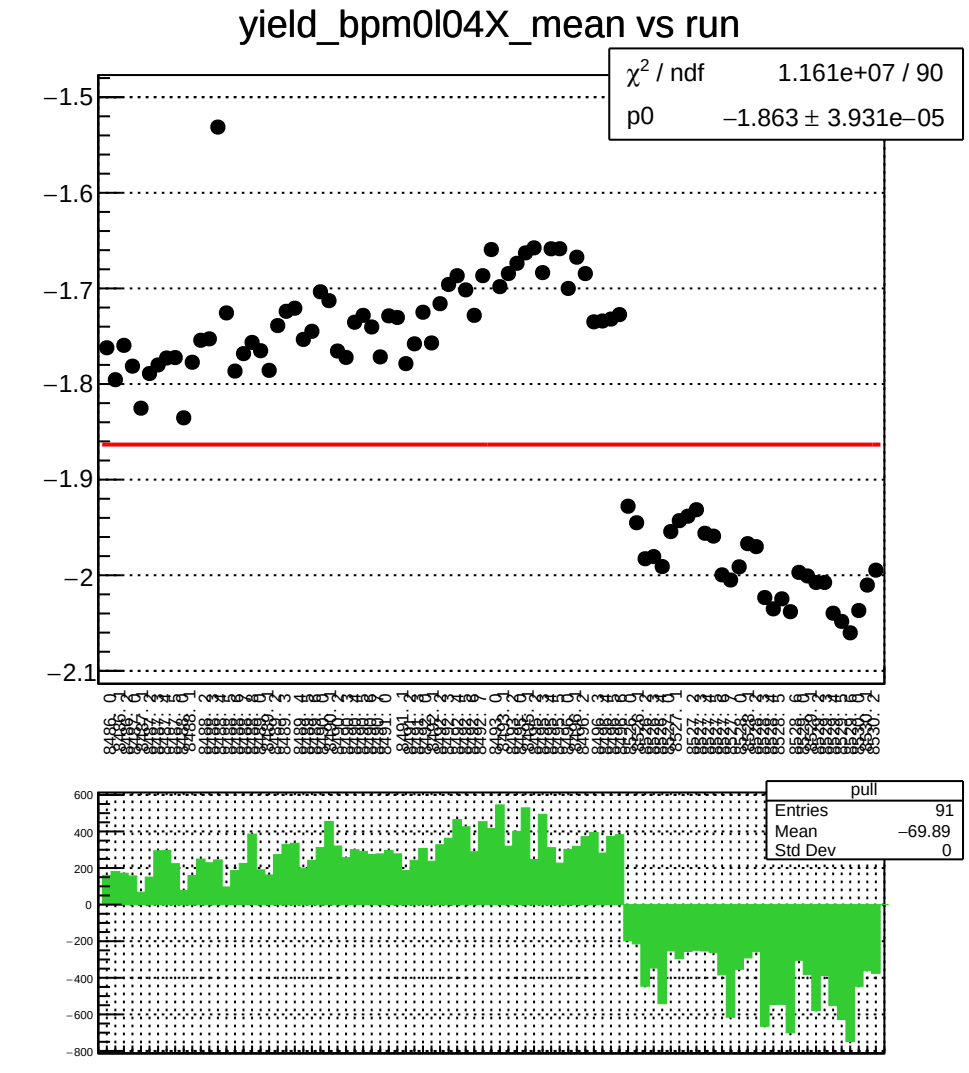

pull1D
Entries 91
Mean −0.2529
Std Dev 5.873
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

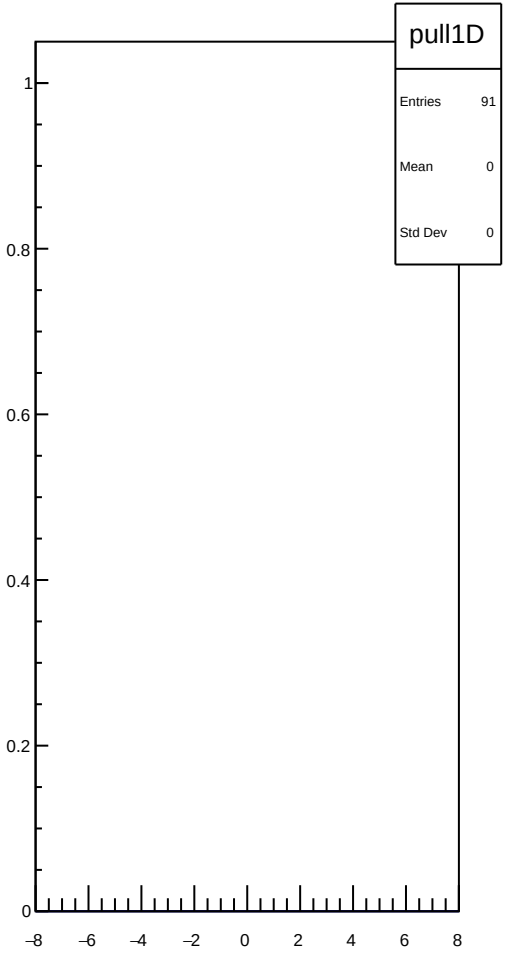

yield_bpm0l03X_rms vs run
χ² / ndf 1.257e+06 / 90
p0 0.006819 ± 9.716e−06
1.4
1.2
1
0.8
0.6
0.4
0.2

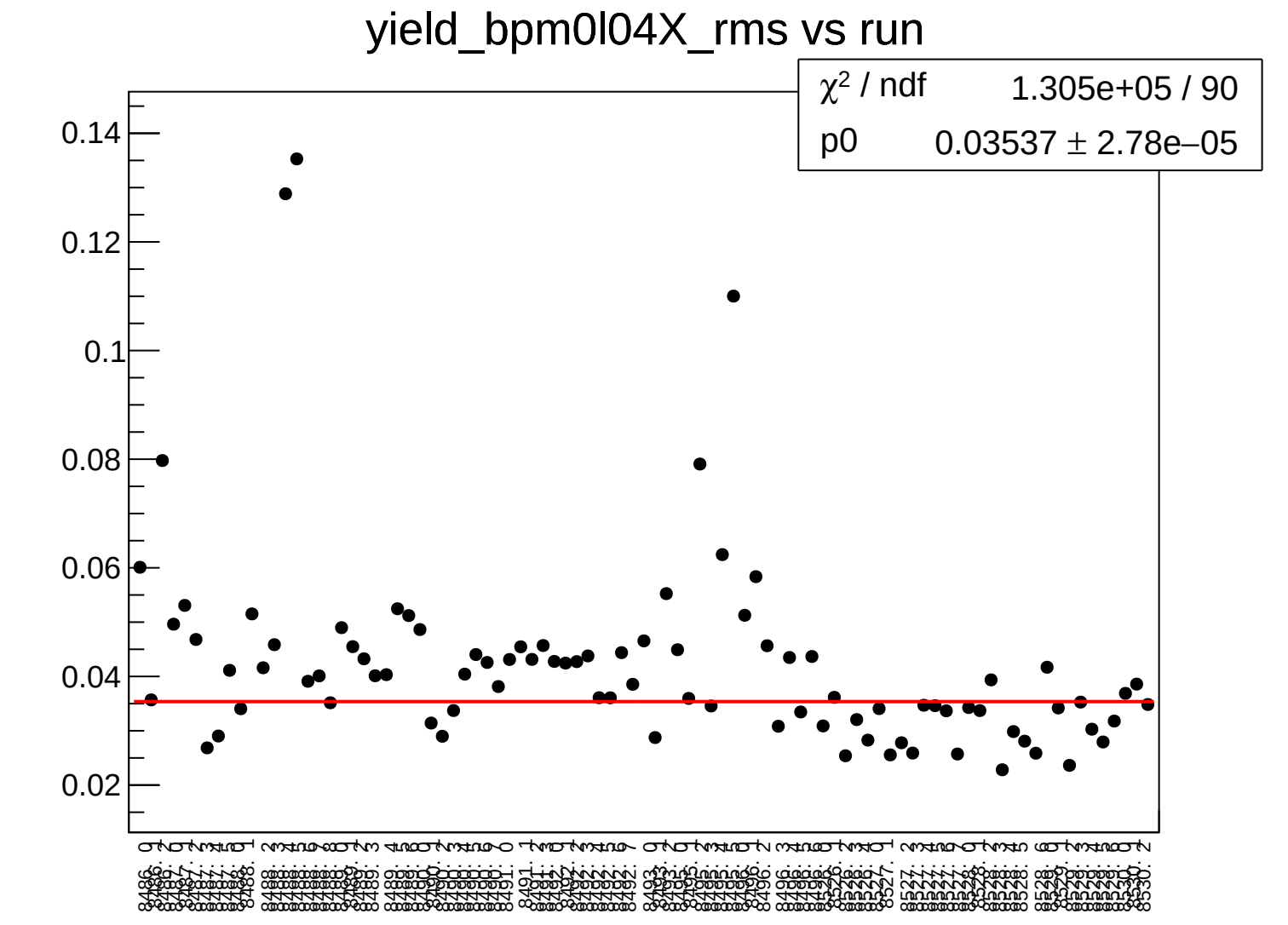

yield_bpm0l03Y_mean vs run
χ² / ndf 1.062e+06 / 90
p0 0.4099 ± 2.659e−05
pull
Entries 91
Mean 36.18
Std Dev 10.35

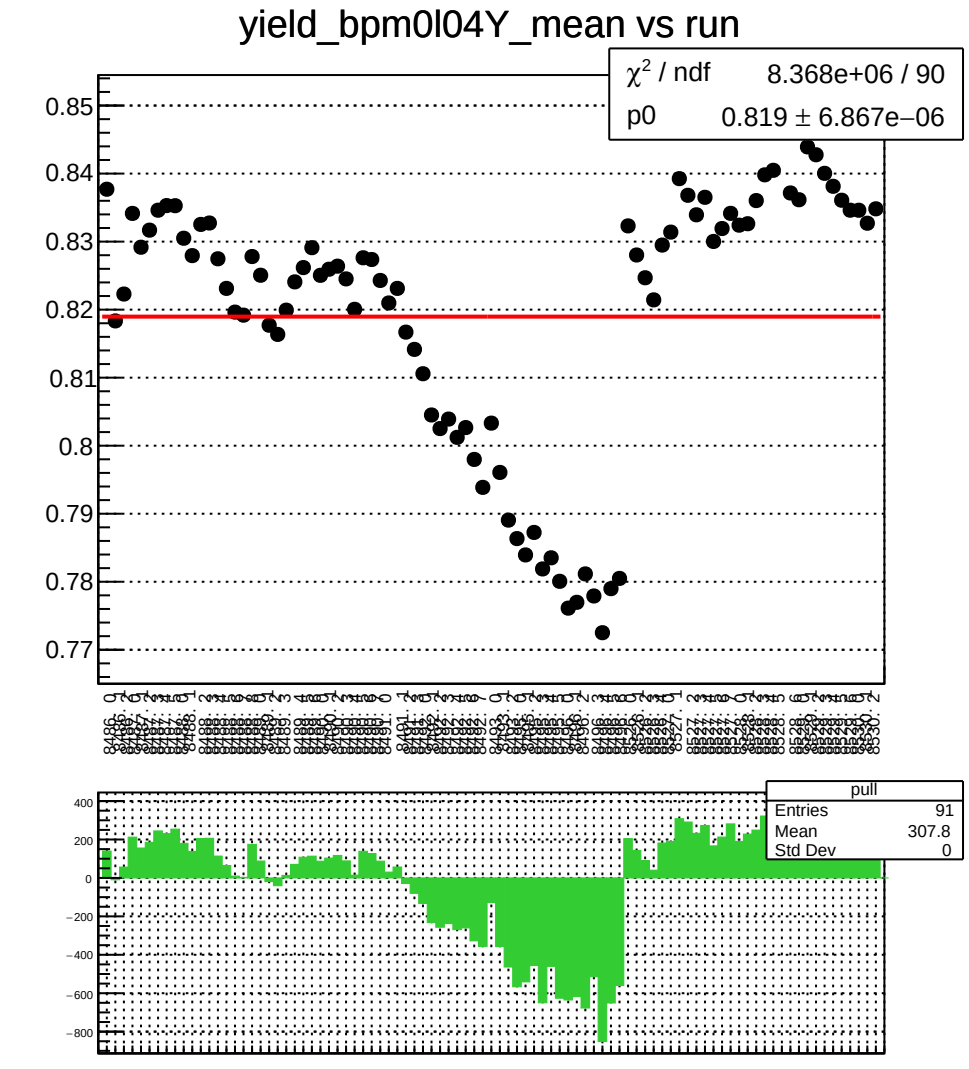

pull1D
Entries 91
Mean 4.065
Std Dev 2.601

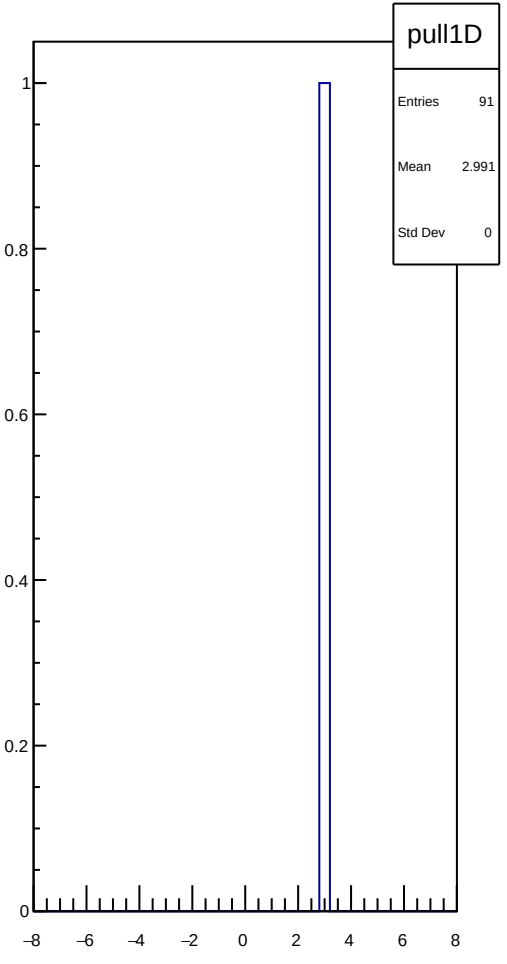

yield_bpm0l03Y_rms vs run
χ² / ndf 1.15e+06 / 90
p0 0.01455 ± 1.88e−05
1.4
1.2
1
0.8
0.6
0.4
0.2

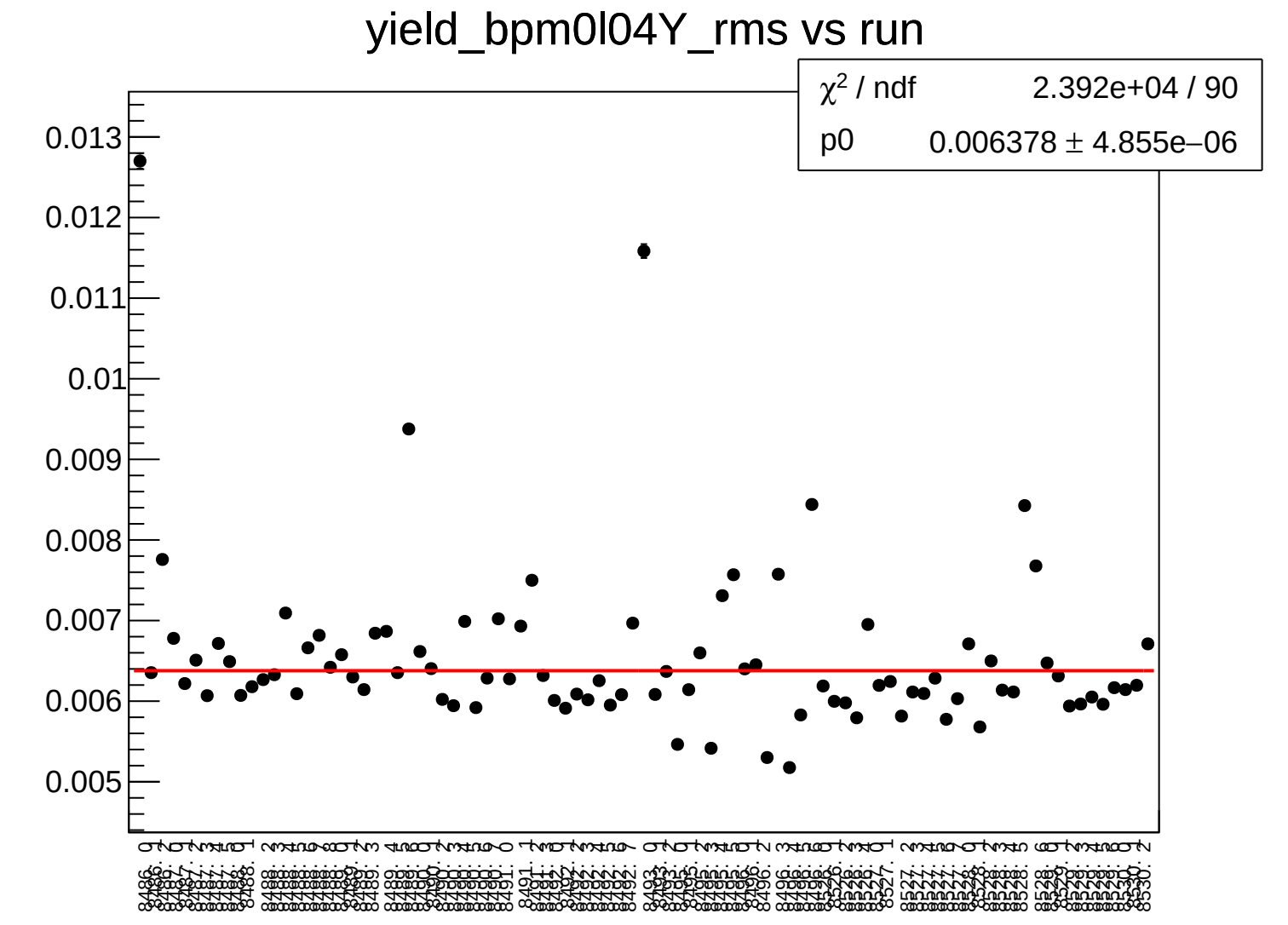

yield_bpm0l04X_mean vs run
χ² / ndf 1.161e+07 / 90
p0 −1.863 ± 3.931e−05
−1.5
−1.6
−1.7
−1.8
−1.9
−2
−2.1
pull
Entries 91
Mean −69.89
Std Dev 0
600
400
200
0
−200
−400
−600
−800

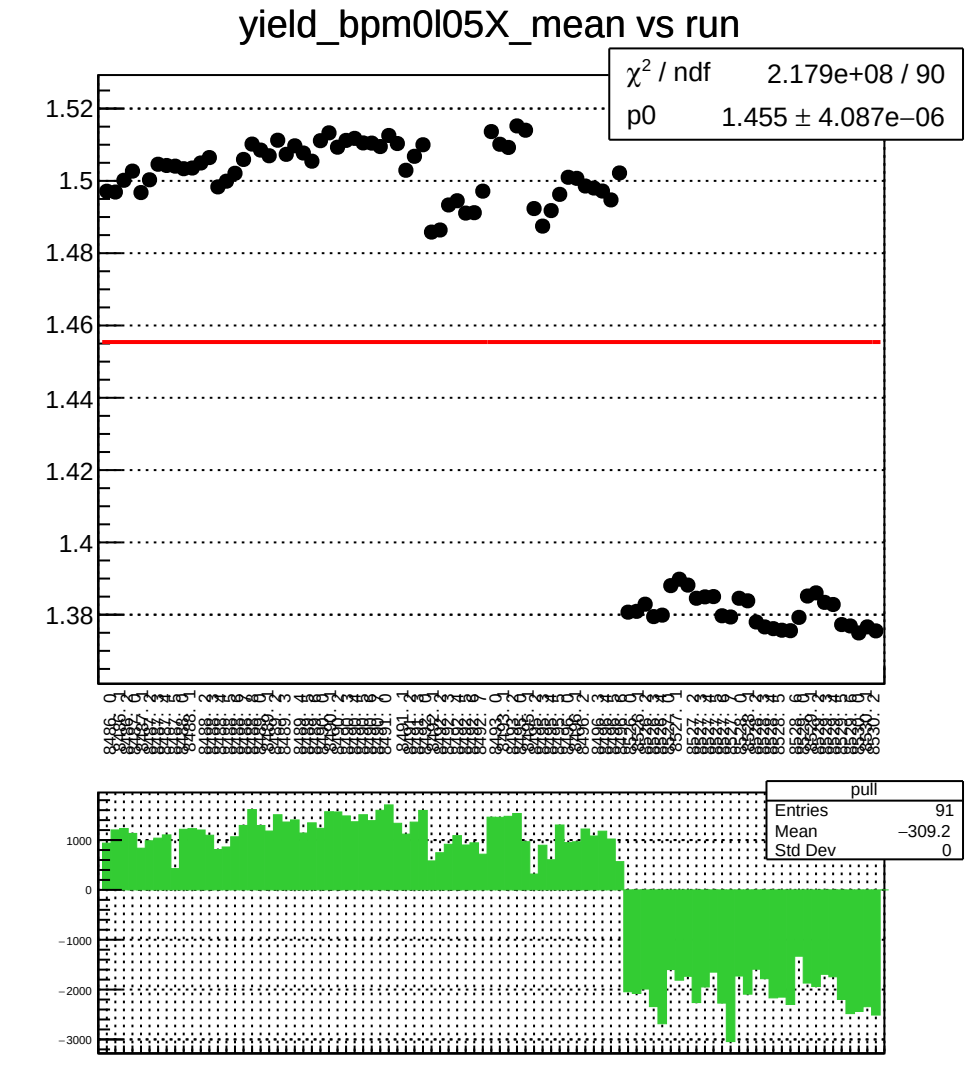

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

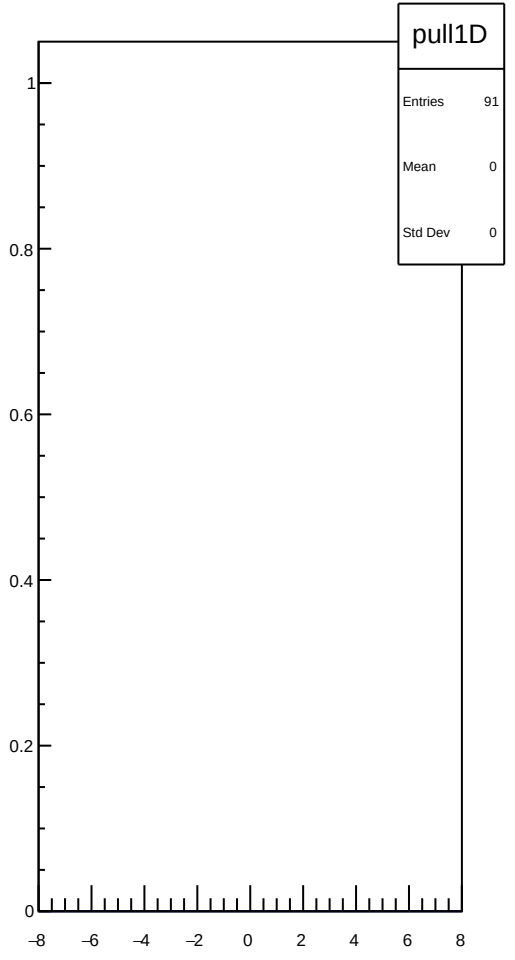

yield_bpm0l04X_rms vs run
χ^2 / ndf 1.305e+05 / 90
p0 0.03537 ± 2.78e−05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

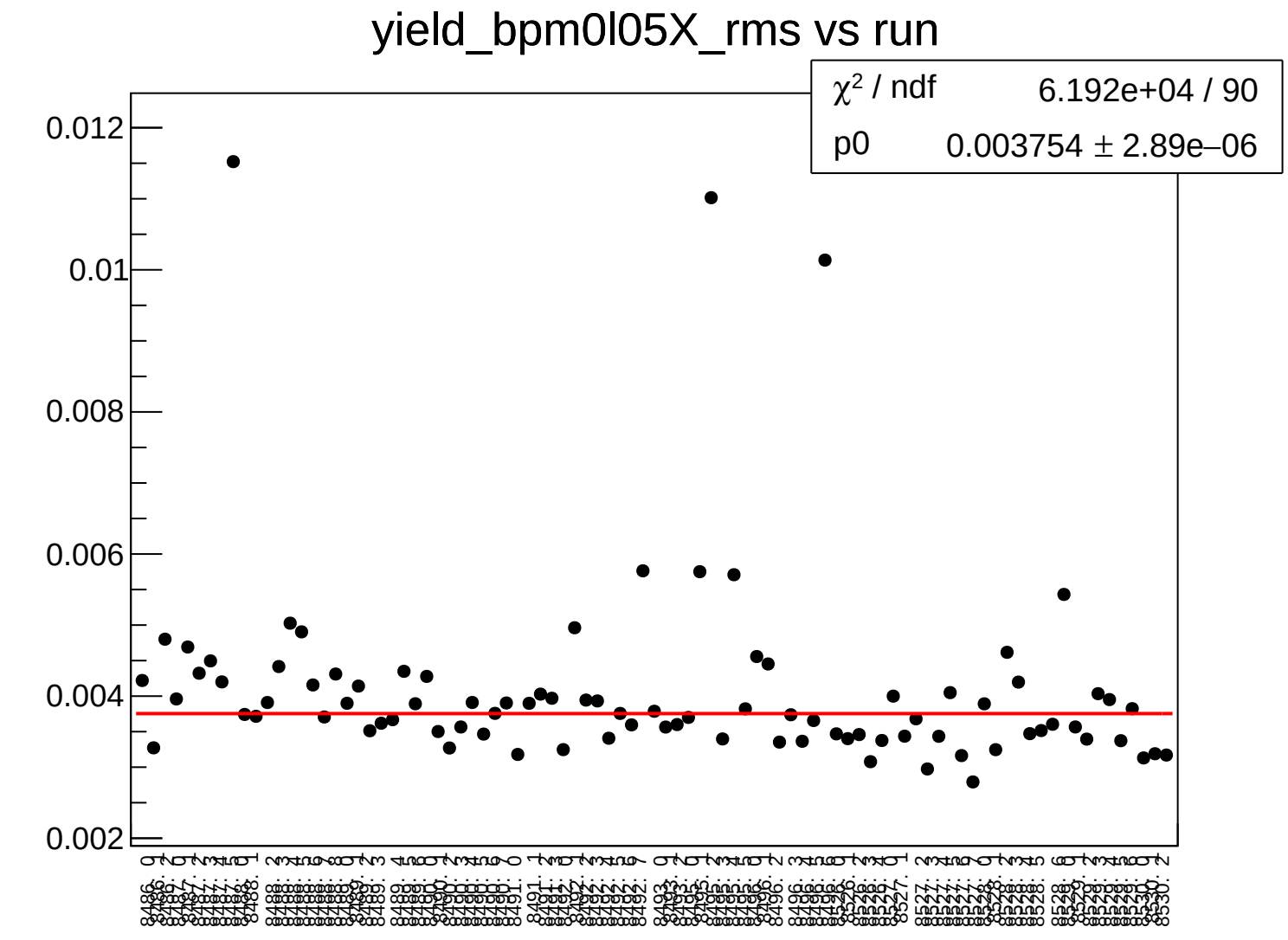

yield_bpm0l04Y_mean vs run
χ² / ndf 8.368e+06 / 90
p0 0.819 ± 6.867e−06
0.85
0.84
0.83
0.82
0.81
0.8
0.79
0.78
0.77
pull
Entries 91
Mean 307.8
Std Dev 0
400
200
0
−200
−400
−600
−800

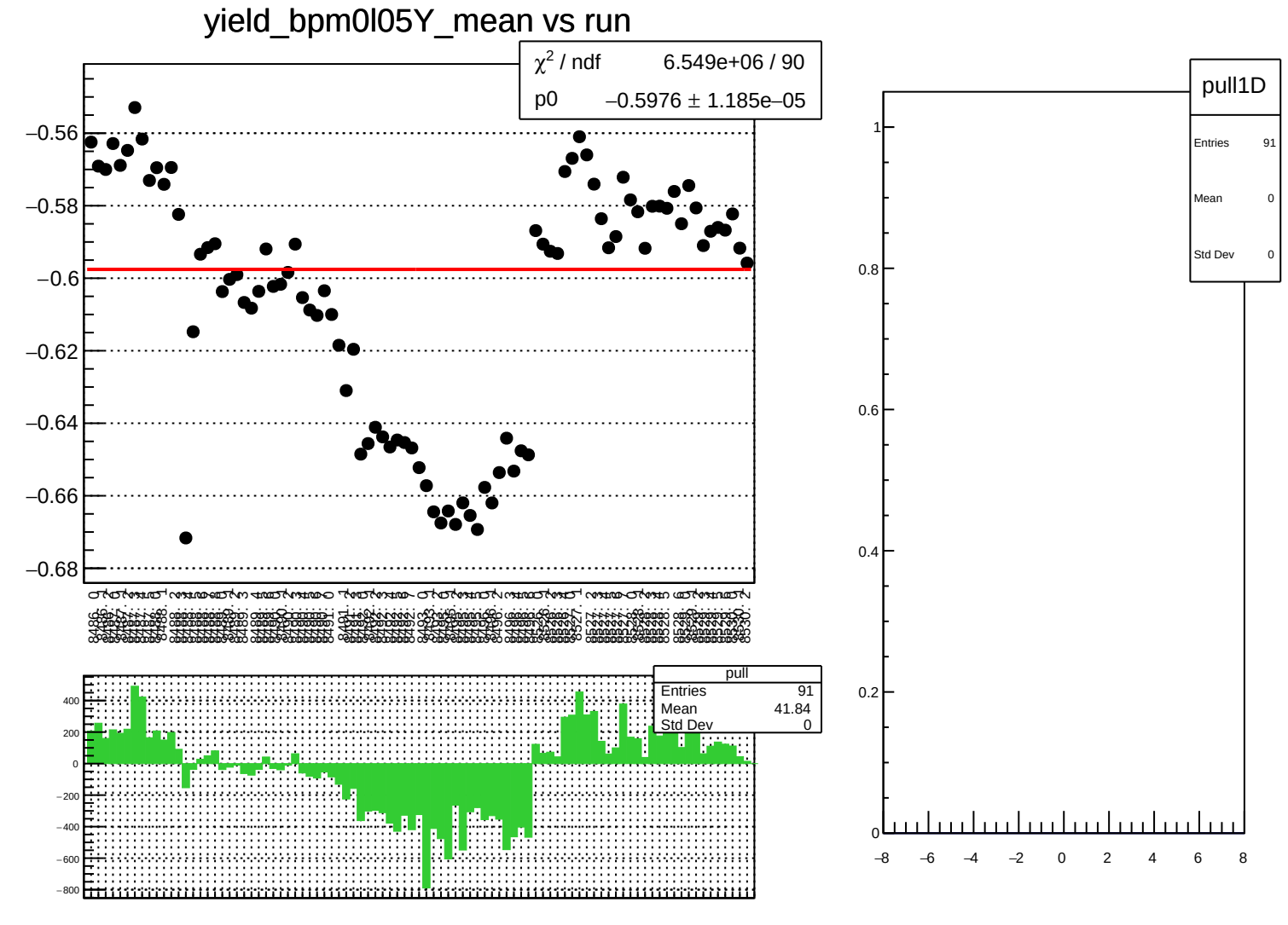

pull1D
Entries 91
Mean 2.991
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

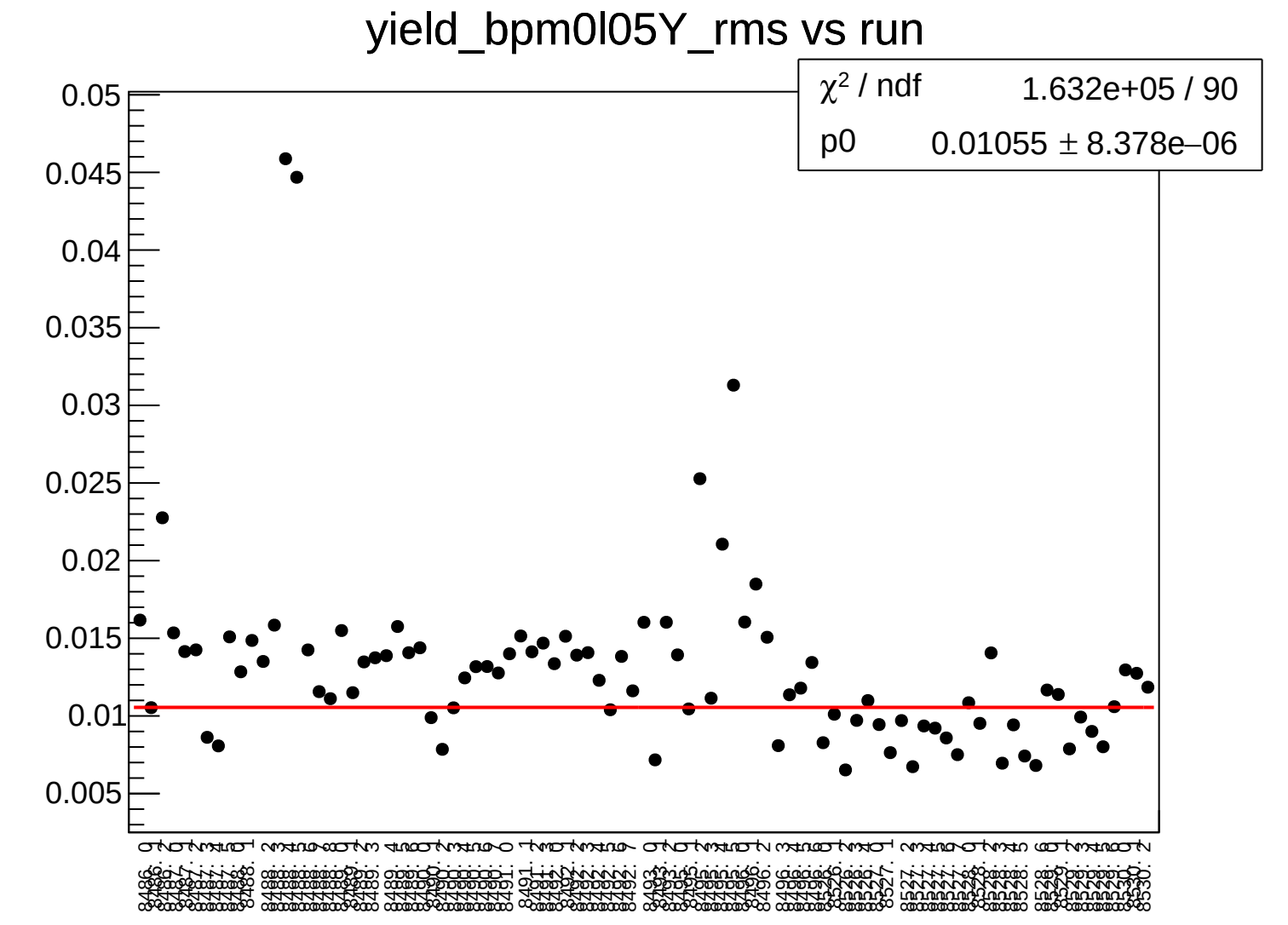

yield_bpm0l04Y_rms vs run
χ² / ndf 2.392e+04 / 90
p0 0.006378 ± 4.855e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005

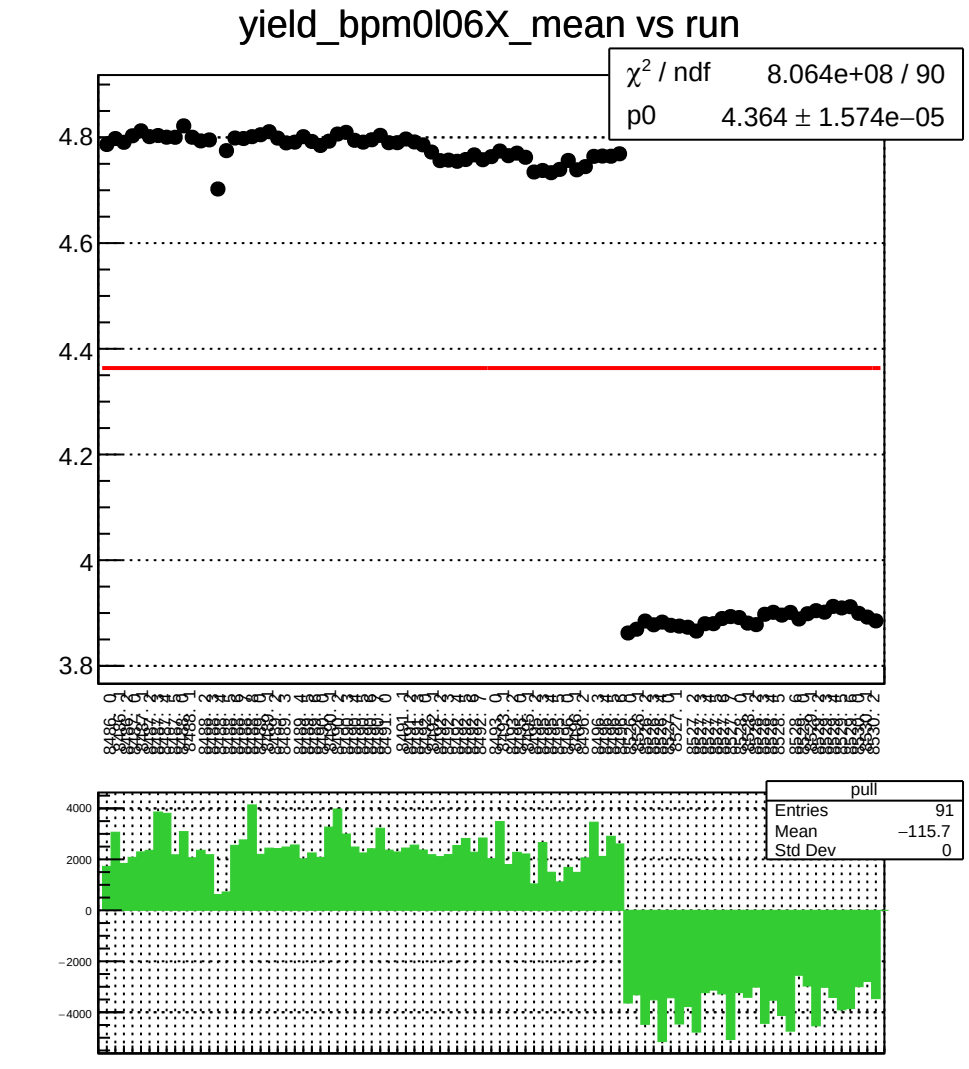

yield_bpm0l05X_mean vs run
χ² / ndf 2.179e+08 / 90
p0 1.455 ± 4.087e−06
1.52
1.5
1.48
1.46
1.44
1.42
1.4
1.38
pull
Entries 91
Mean −309.2
Std Dev 0
1000
0
−1000
−2000
−3000

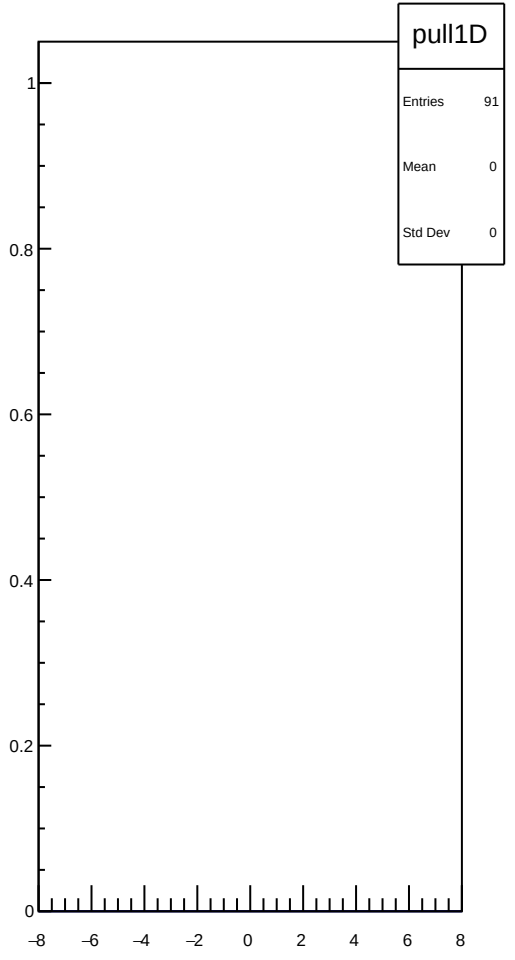

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

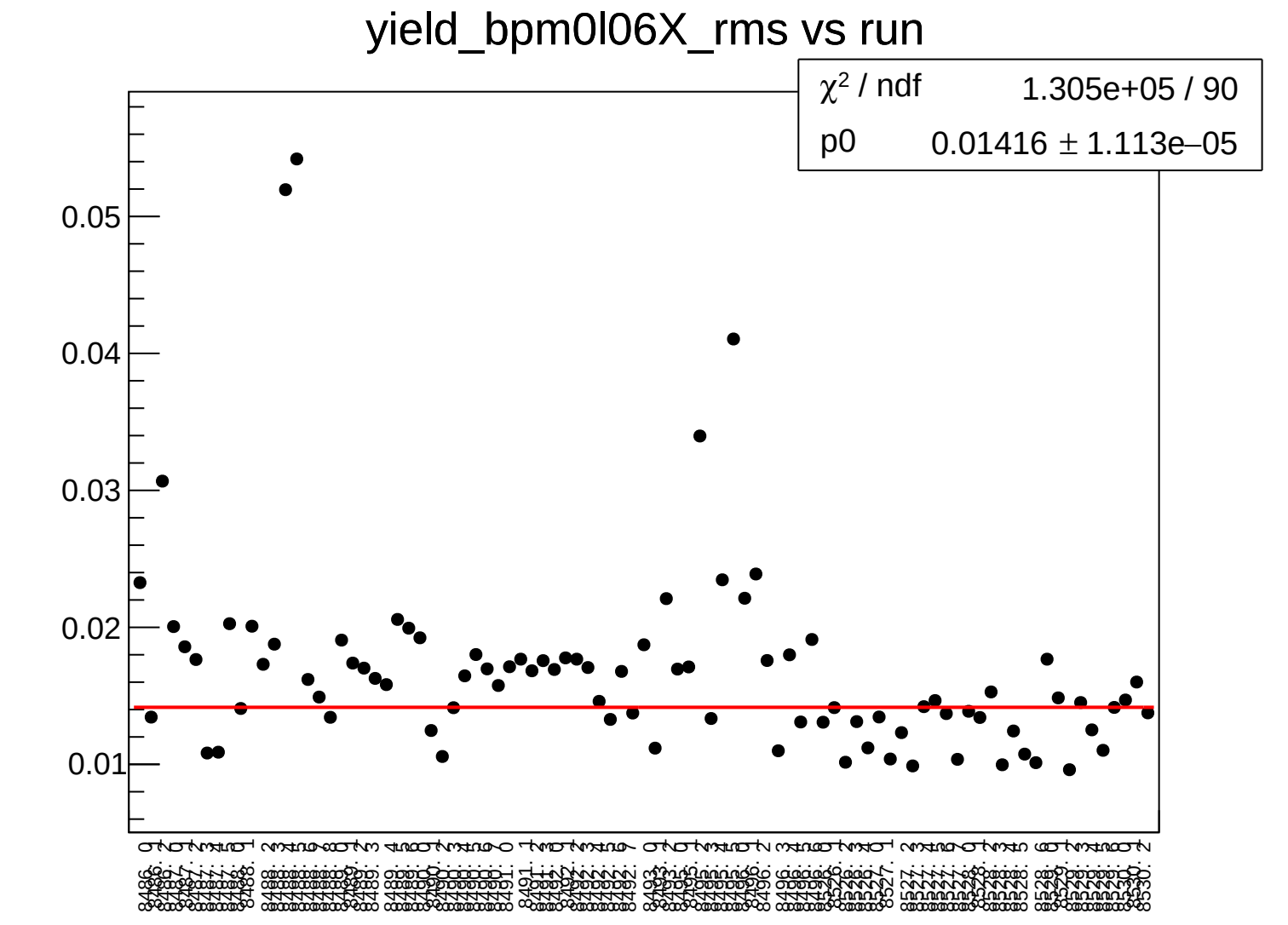

yield_bpm0l05X_rms vs run
χ² / ndf 6.192e+04 / 90
p0 0.003754 ± 2.89e−06
0.012
0.01
0.008
0.006
0.004
0.002

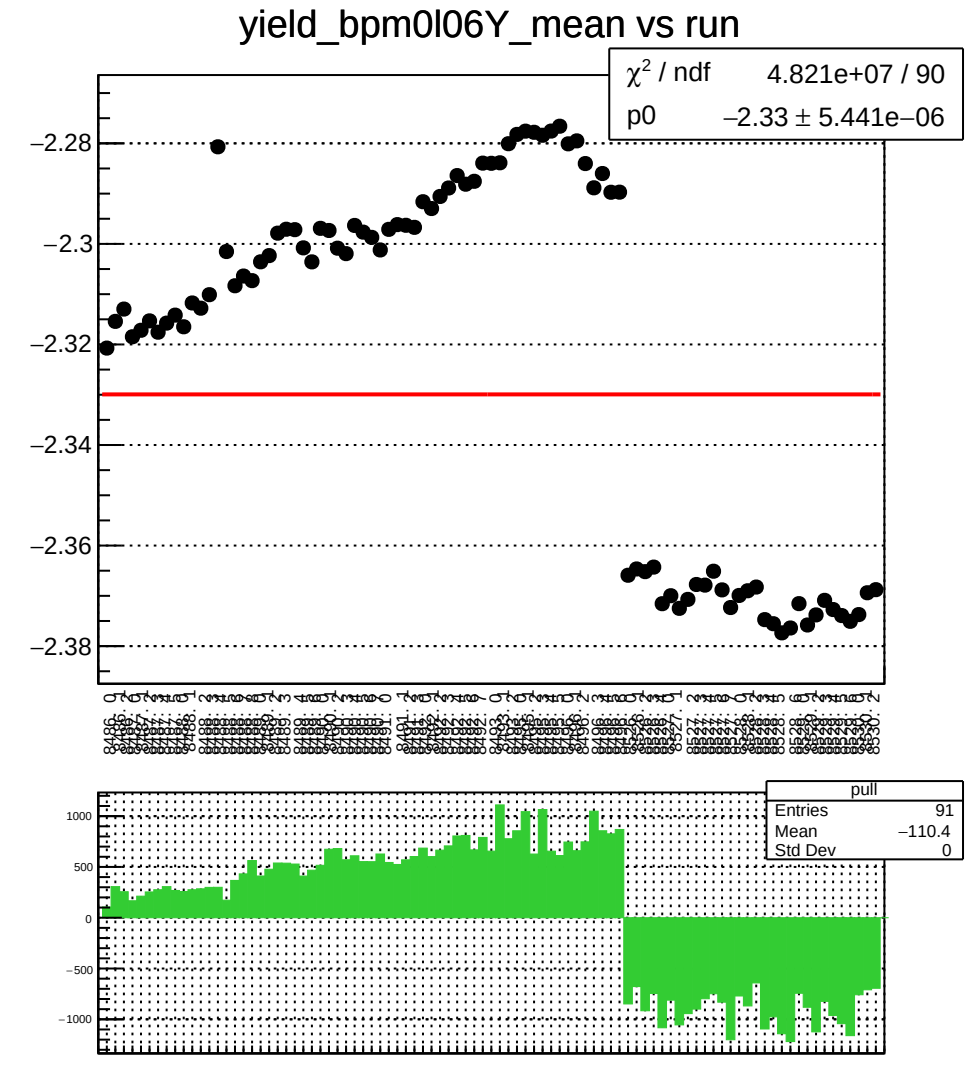

yield_bpm0l05Y_mean vs run
χ² / ndf 6.549e+06 / 90
p0 −0.5976 ± 1.185e−05
−0.56
−0.58
−0.6
−0.62
−0.64
−0.66
−0.68
pull
Entries 91
Mean 41.84
Std Dev 0
400
200
0
−200
−400
−600
−800
pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

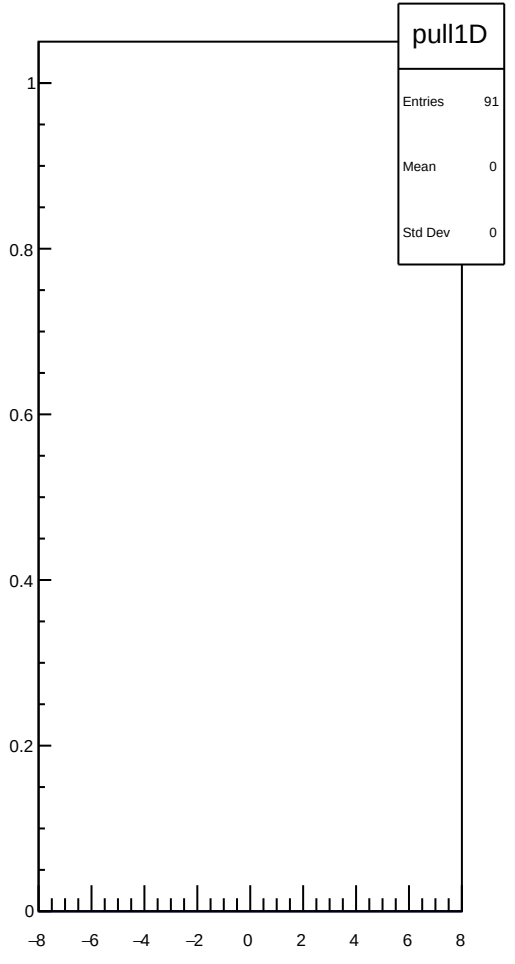

yield_bpm0l05Y_rms vs run
χ² / ndf 1.632e+05 / 90
p0 0.01055 ± 8.378e–06
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

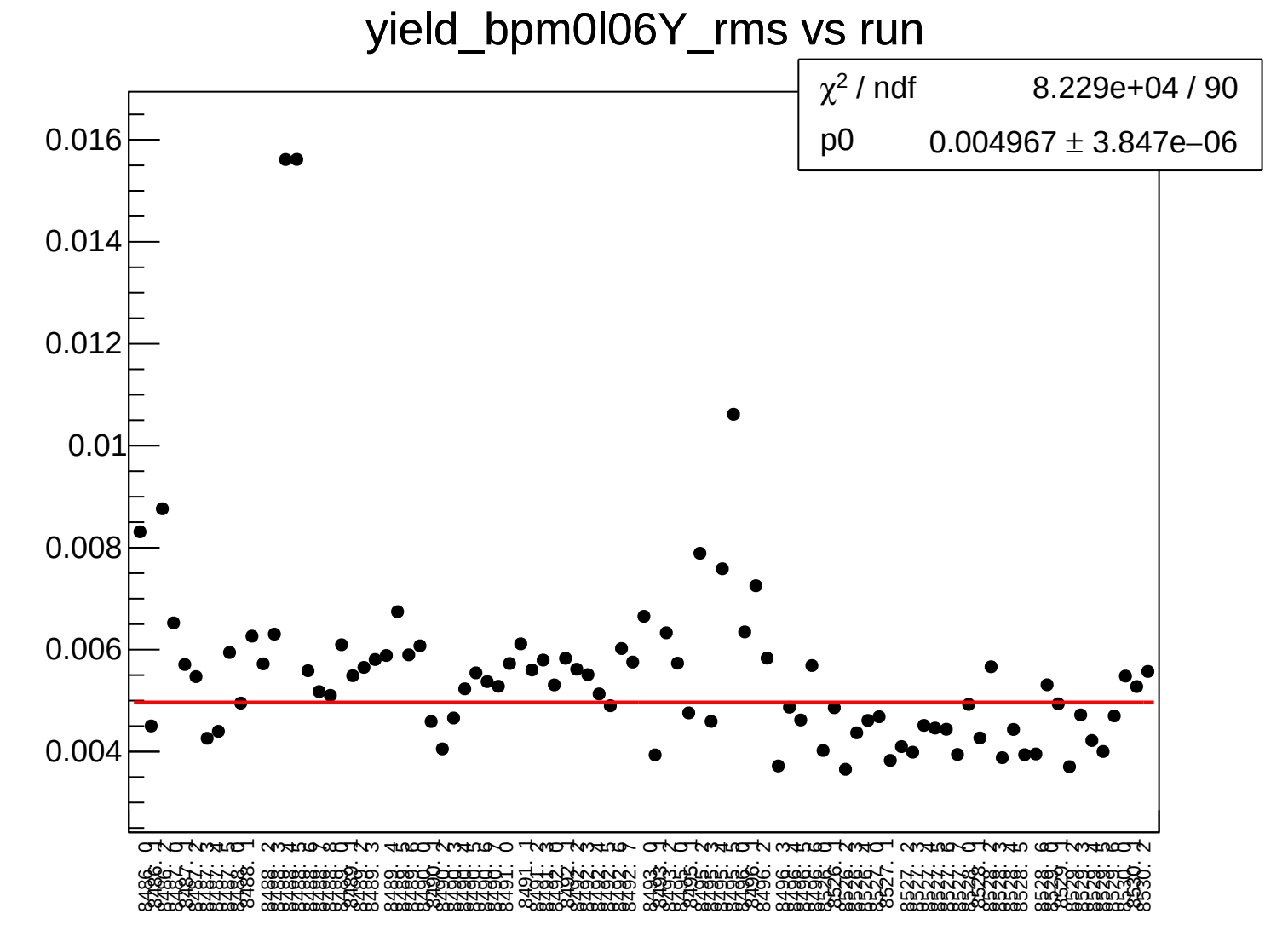

yield_bpm0l06X_mean vs run
χ² / ndf 8.064e+08 / 90
p0 4.364 ± 1.574e−05
4.8
4.6
4.4
4.2
4
3.8
pull
Entries 91
Mean −115.7
Std Dev 0
4000
2000
0
−2000
−4000

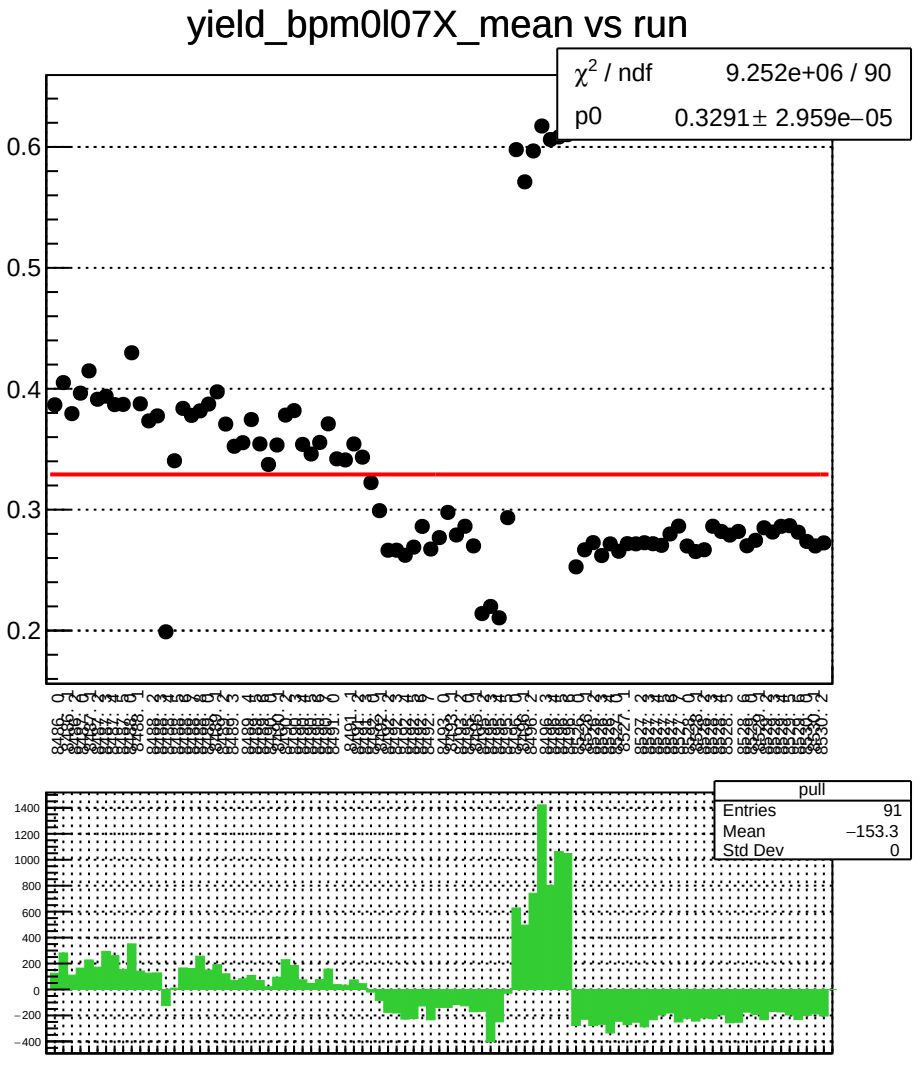

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

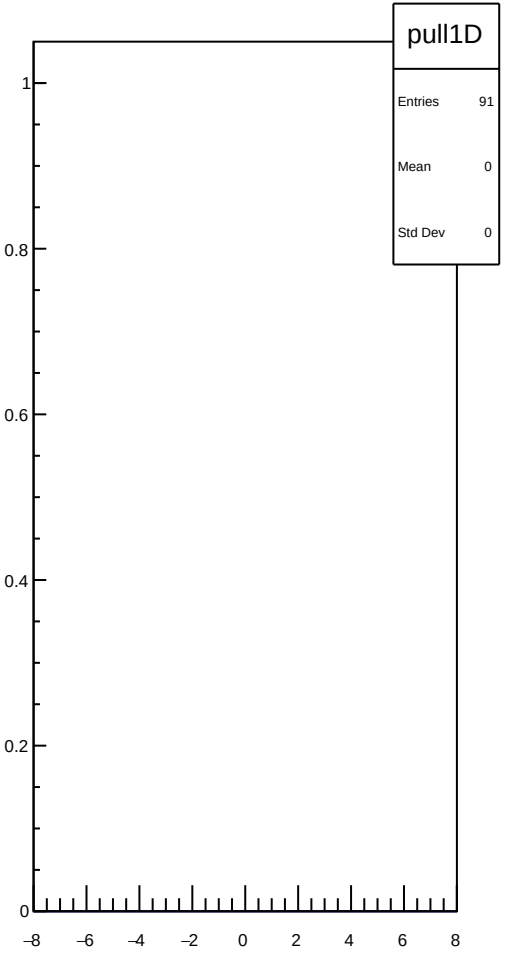

yield_bpm0l06X_rms vs run
χ² / ndf 1.305e+05 / 90
p0 0.01416 ± 1.113e−05
0.05
0.04
0.03
0.02
0.01

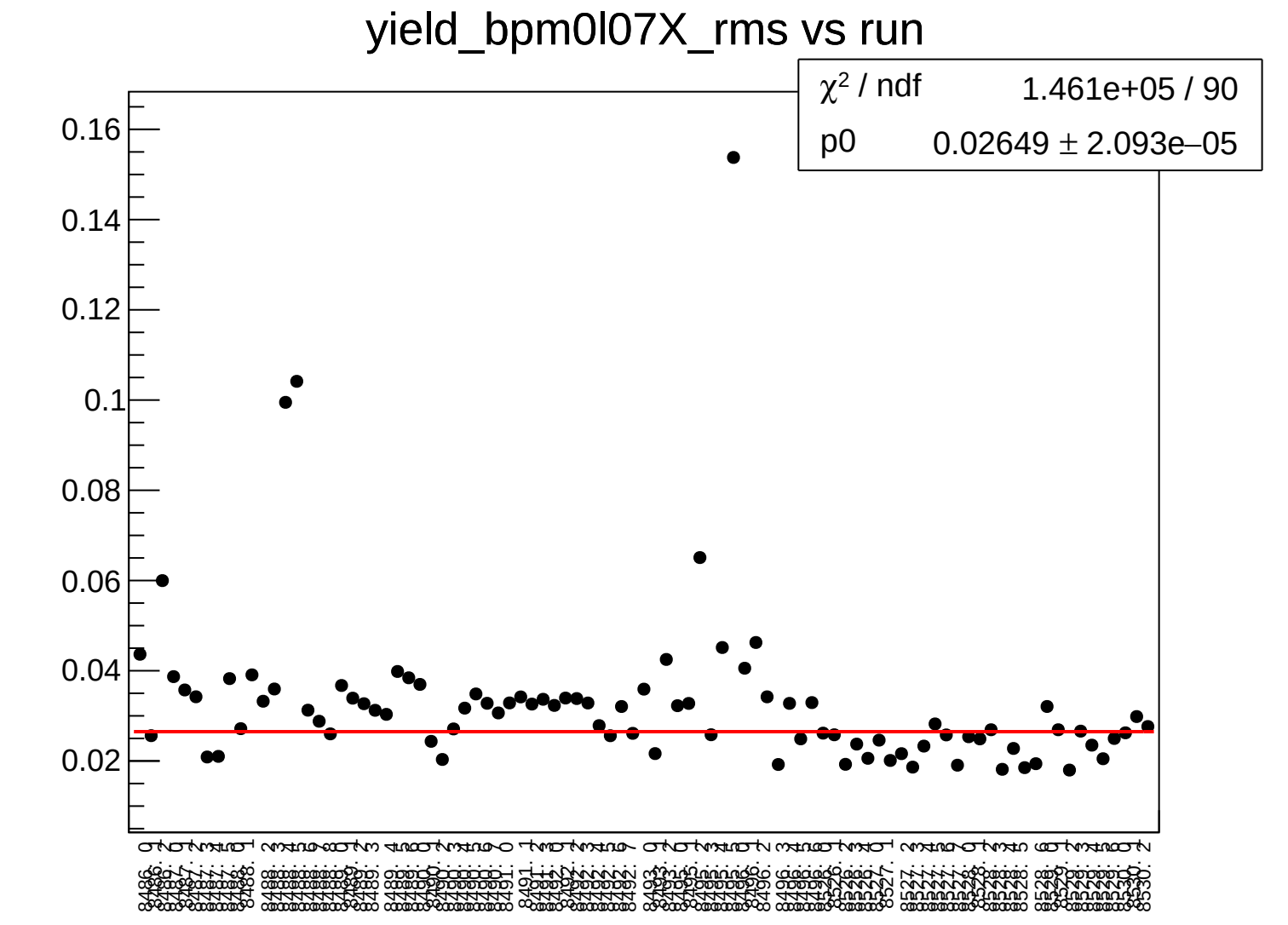

yield_bpm0l06Y_mean vs run
χ² / ndf 4.821e+07 / 90
p0 −2.33 ± 5.441e−06
−2.28
−2.3
−2.32
−2.34
−2.36
−2.38
pull
Entries 91
Mean −110.4
Std Dev 0
1000
500
0
−500
−1000

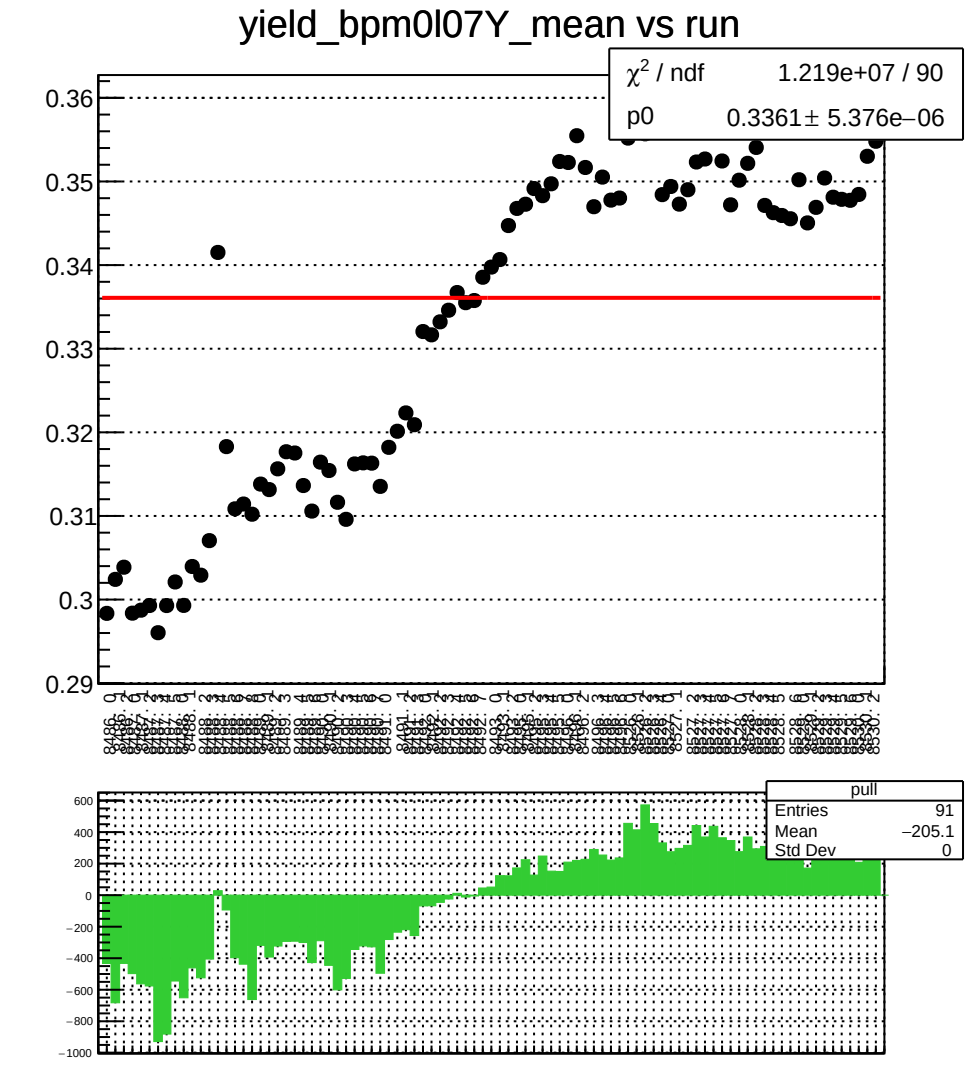

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

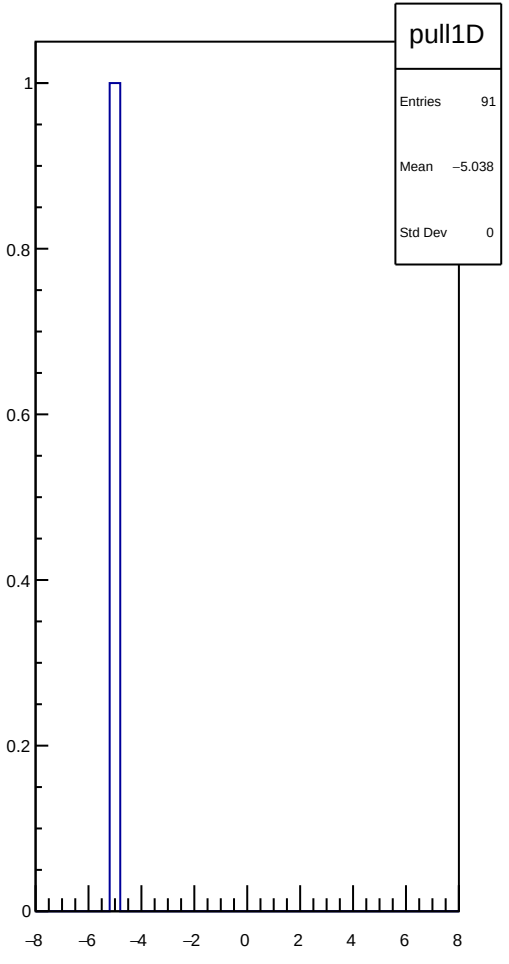

yield_bpm0l06Y_rms vs run
χ² / ndf 8.229e+04 / 90
p0 0.004967 ± 3.847e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

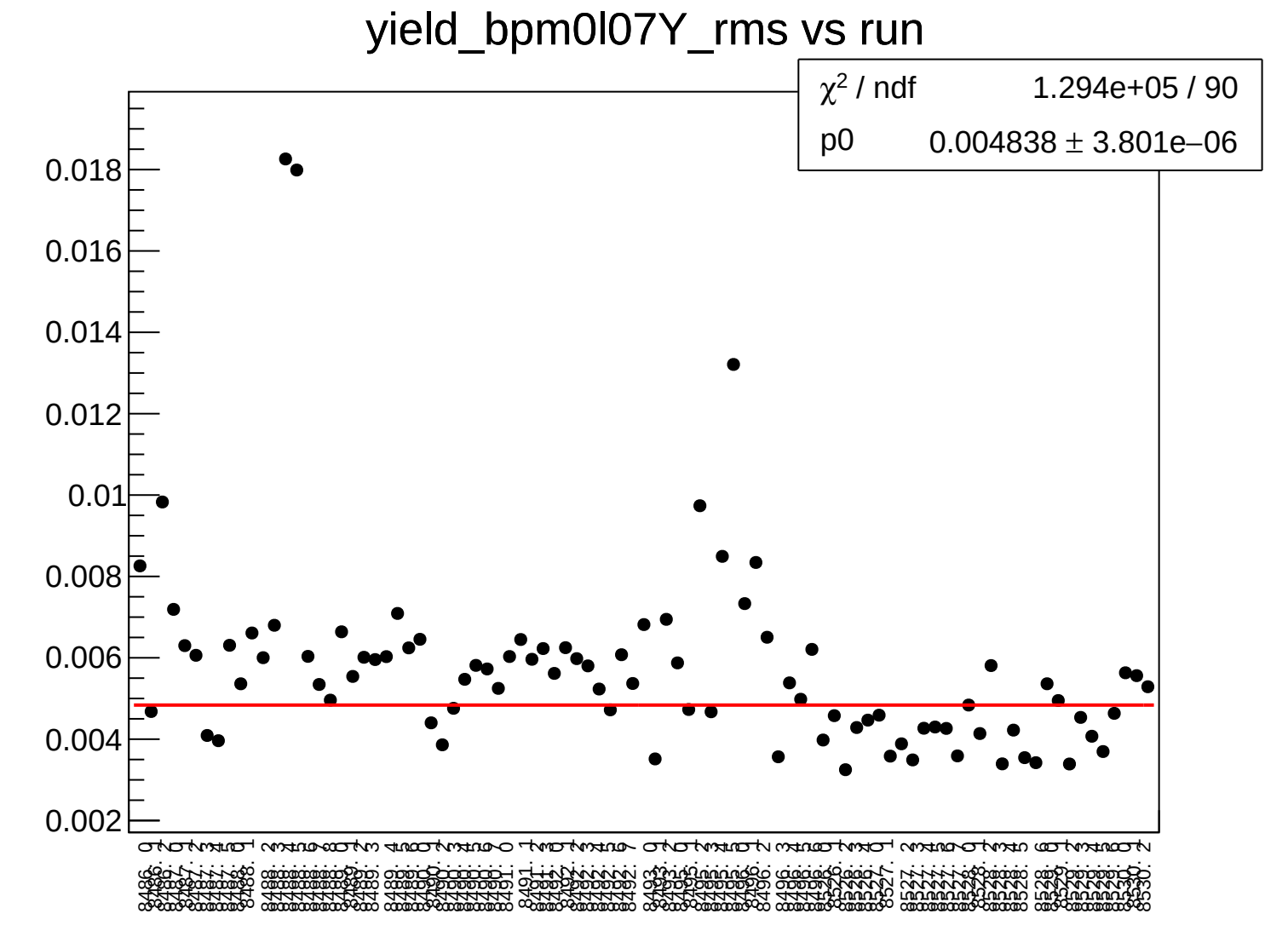

yield_bpm0l07X_mean vs run
χ² / ndf 9.252e+06 / 90
p0 0.3291 ± 2.959e−05
pull
Entries 91
Mean −153.3
Std Dev 0

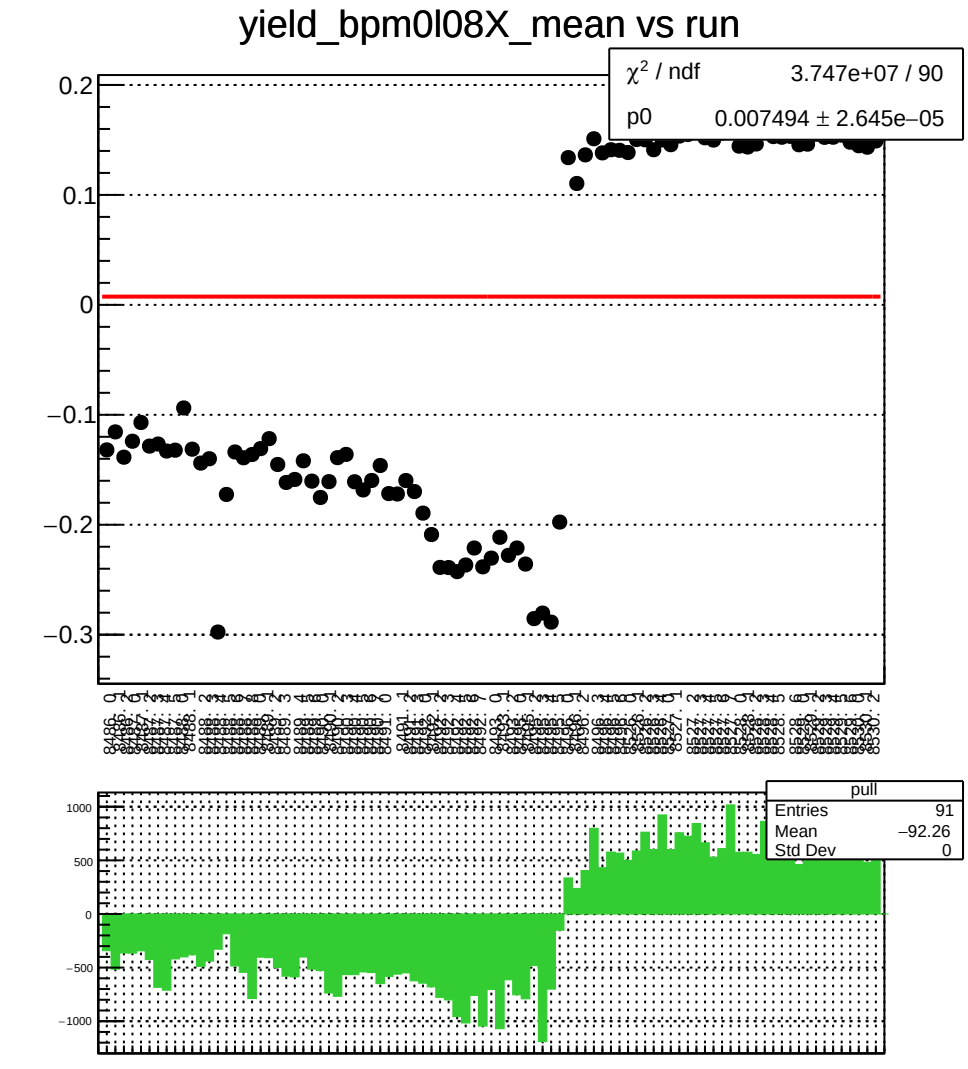

pull1D
Entries 91
Mean 0
Std Dev 0

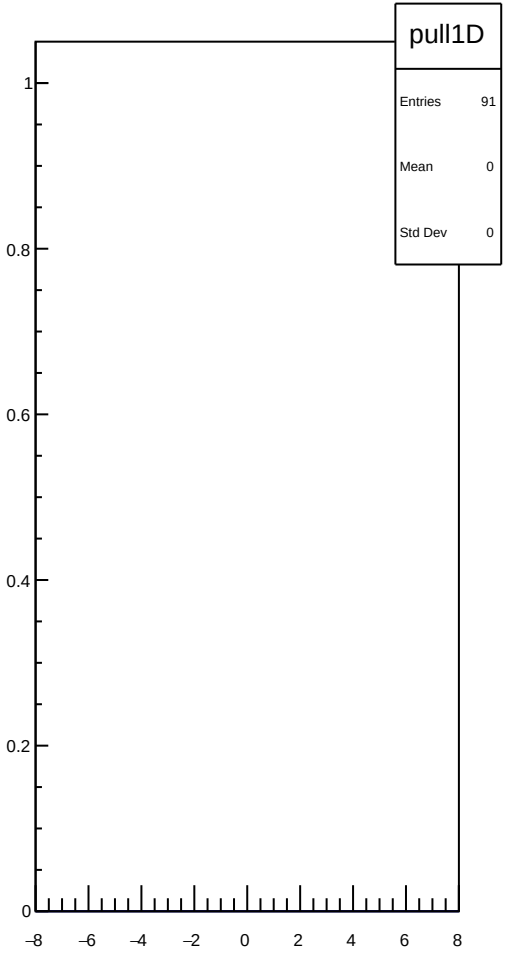

yield_bpm0l07X_rms vs run
χ² / ndf 1.461e+05 / 90
p0 0.02649 ± 2.093e–05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

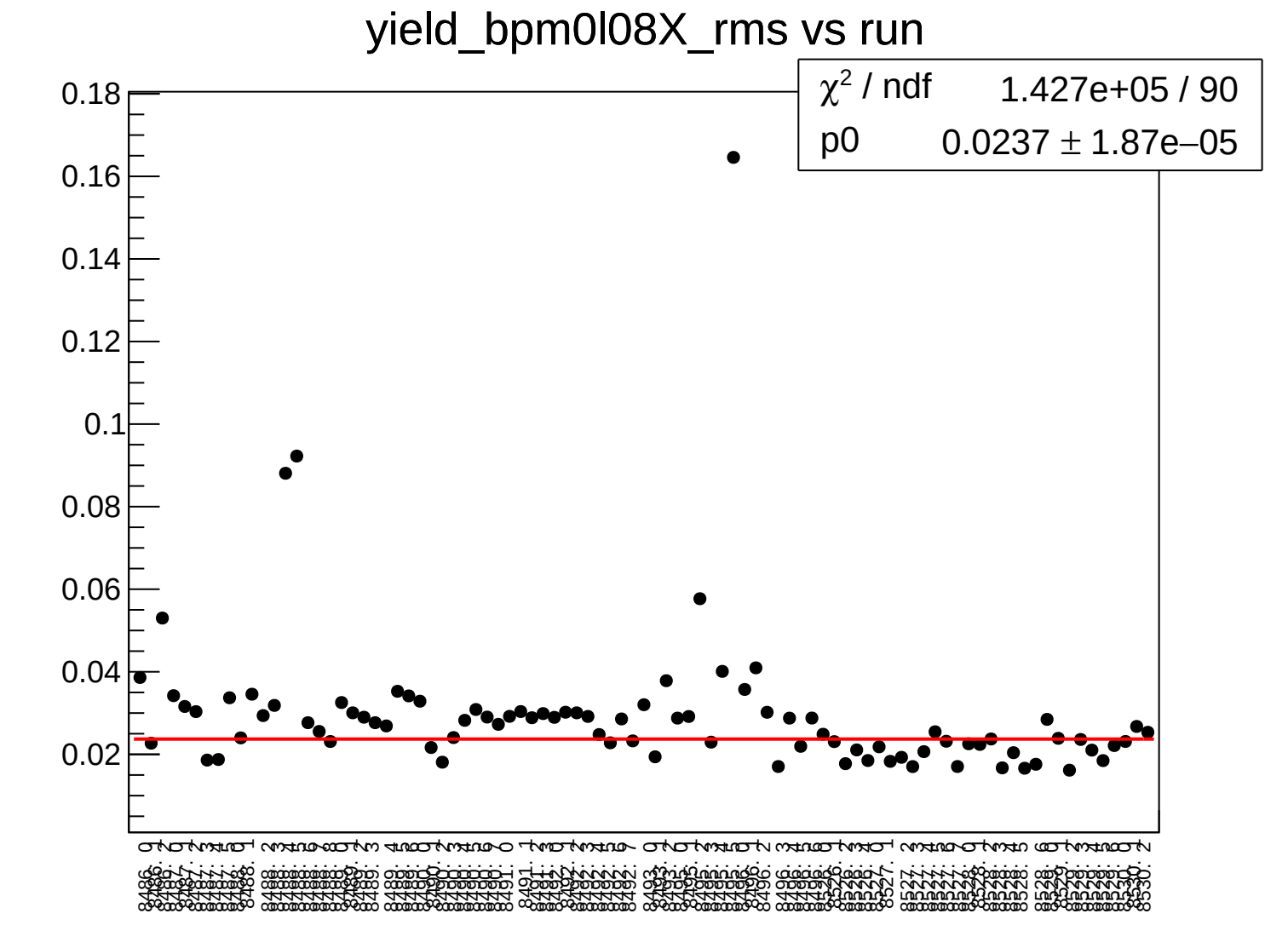

yield_bpm0l07Y_mean vs run
χ² / ndf 1.219e+07 / 90
p0 0.3361 ± 5.376e−06
0.36
0.35
0.34
0.33
0.32
0.31
0.3
0.29
pull
Entries 91
Mean −205.1
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000

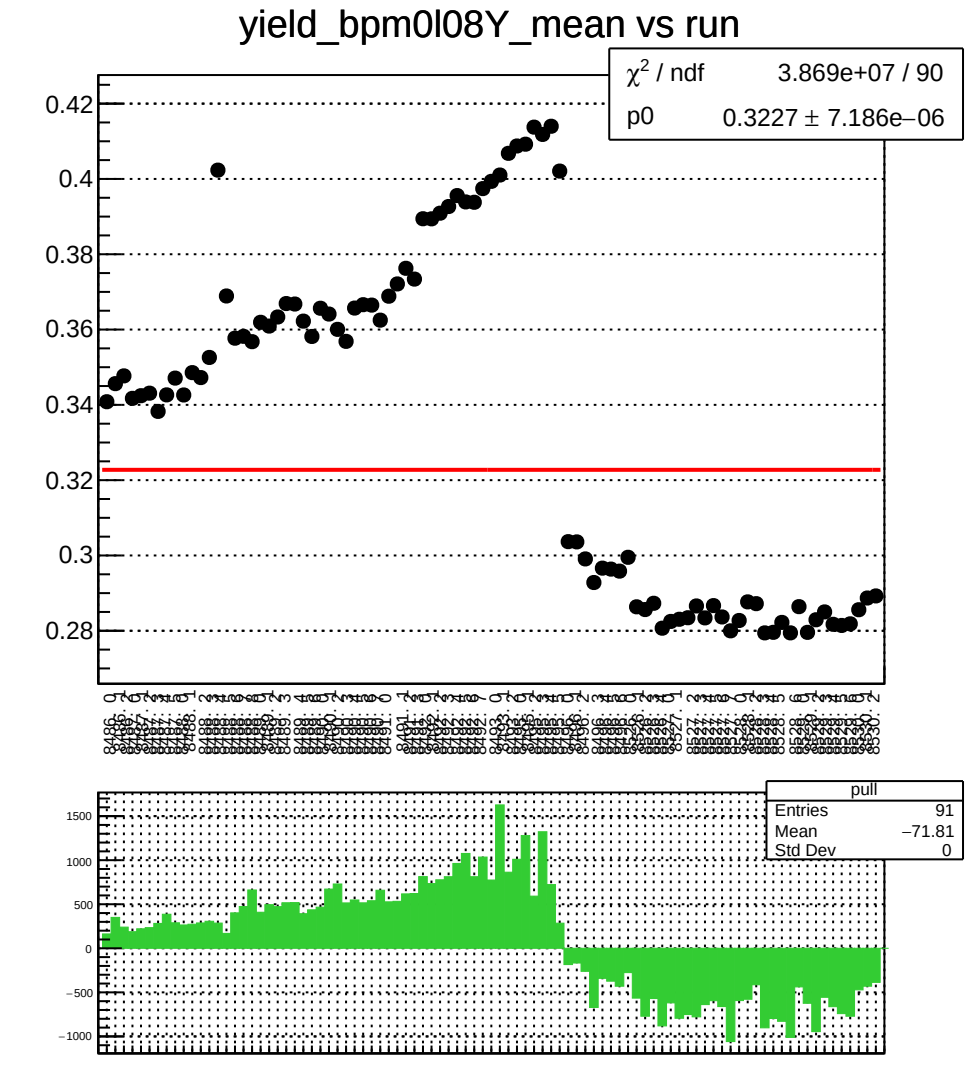

pull1D
Entries 91
Mean −5.038
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

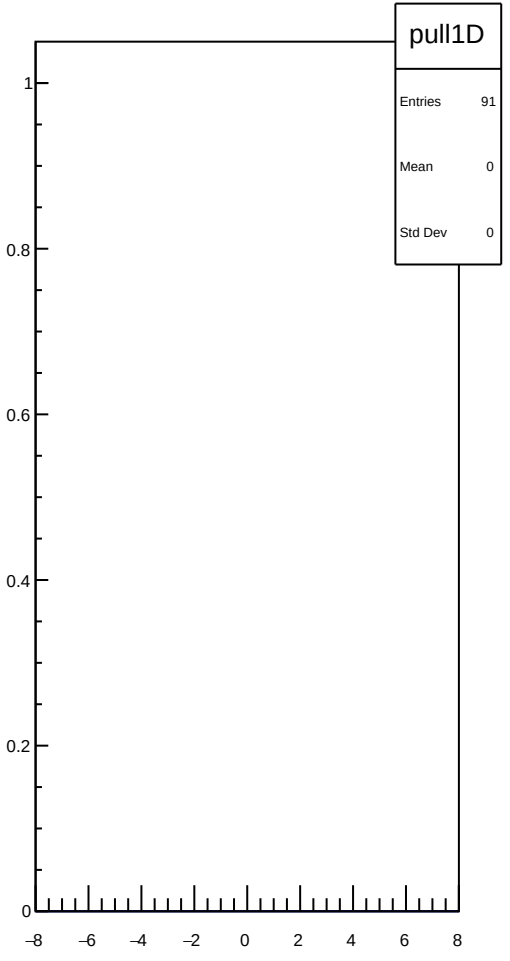

yield_bpm0l07Y_rms vs run
χ^2 / ndf 1.294e+05 / 90
p0 0.004838 ± 3.801e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

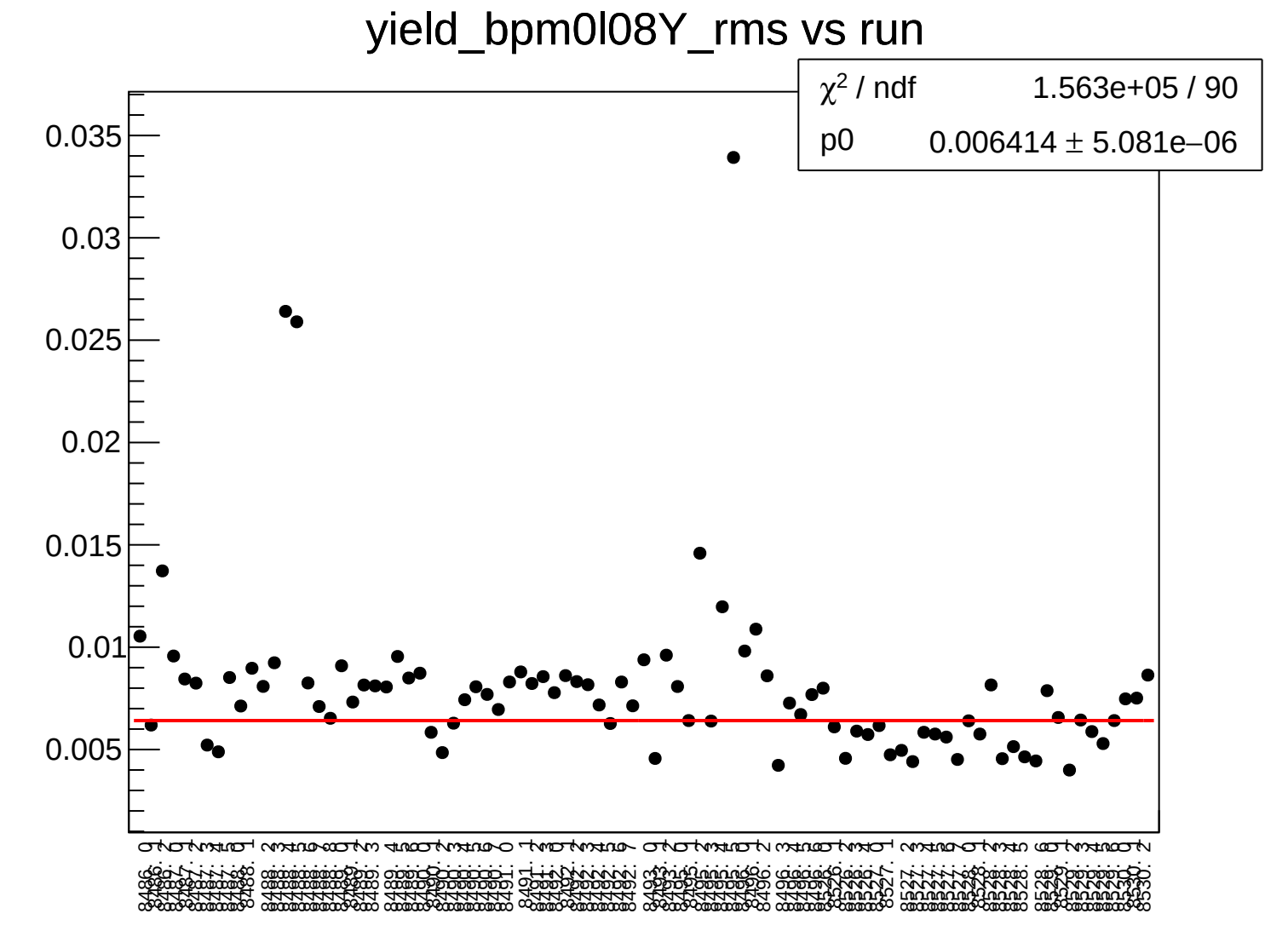

yield_bpm0l08X_mean vs run
χ² / ndf 3.747e+07 / 90
p0 0.007494 ± 2.645e−05
pull
Entries 91
Mean −92.26
Std Dev 0

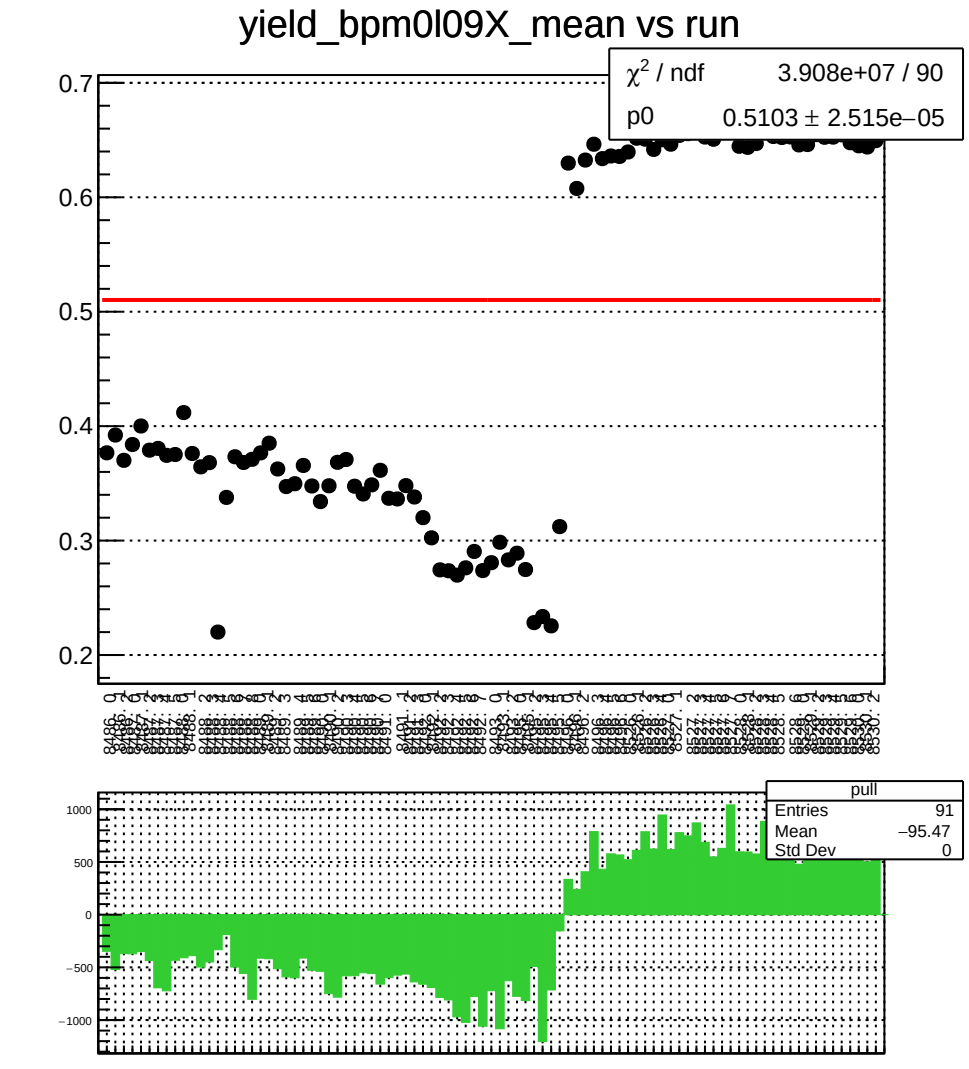

pull1D
Entries 91
Mean 0
Std Dev 0

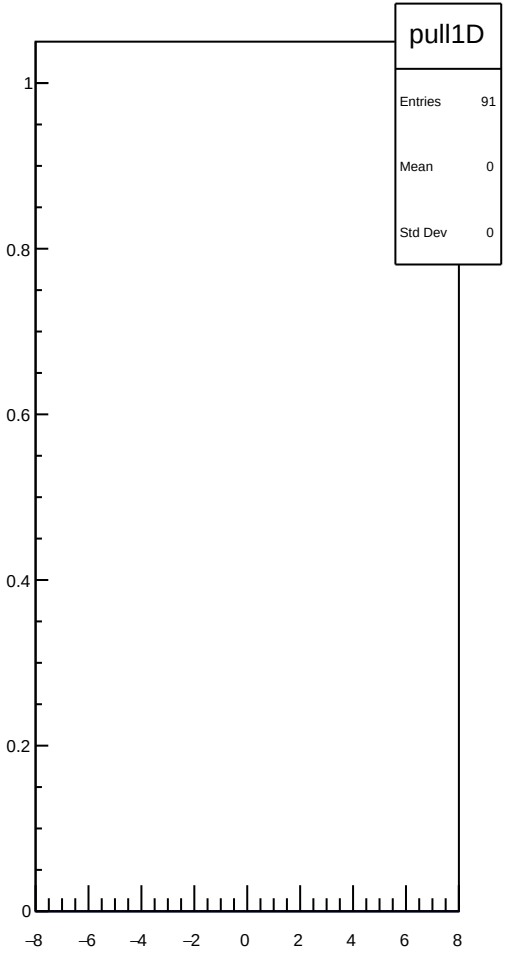

yield_bpm0l08X_rms vs run
χ^2 / ndf 1.427e+05 / 90
p0 0.0237 ± 1.87e−05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

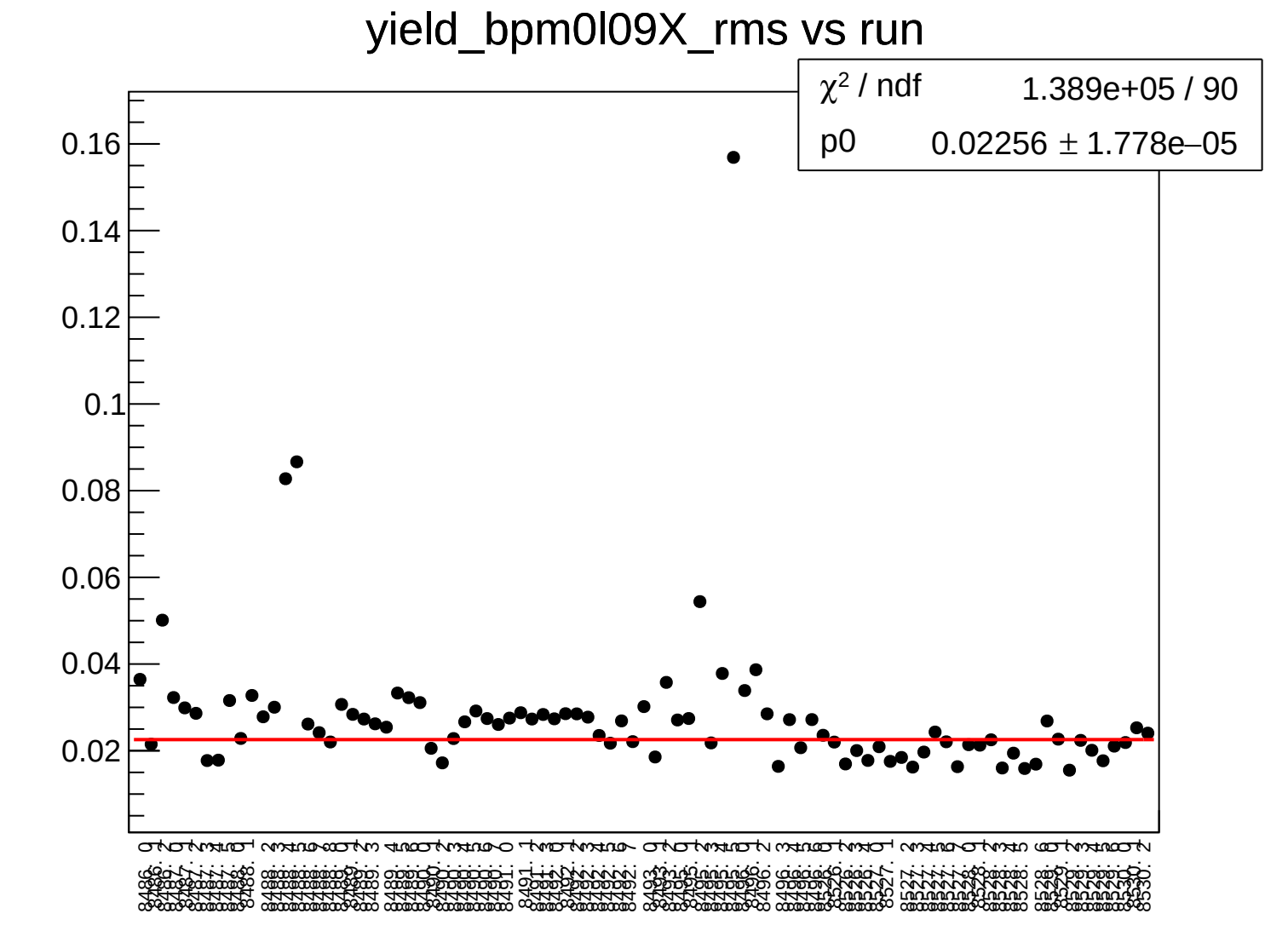

yield_bpm0l08Y_mean vs run
χ² / ndf 3.869e+07 / 90
p0 0.3227 ± 7.186e−06
0.42
0.4
0.38
0.36
0.34
0.32
0.3
0.28
pull
Entries 91
Mean −71.81
Std Dev 0
1500
1000
500
0
−500
−1000

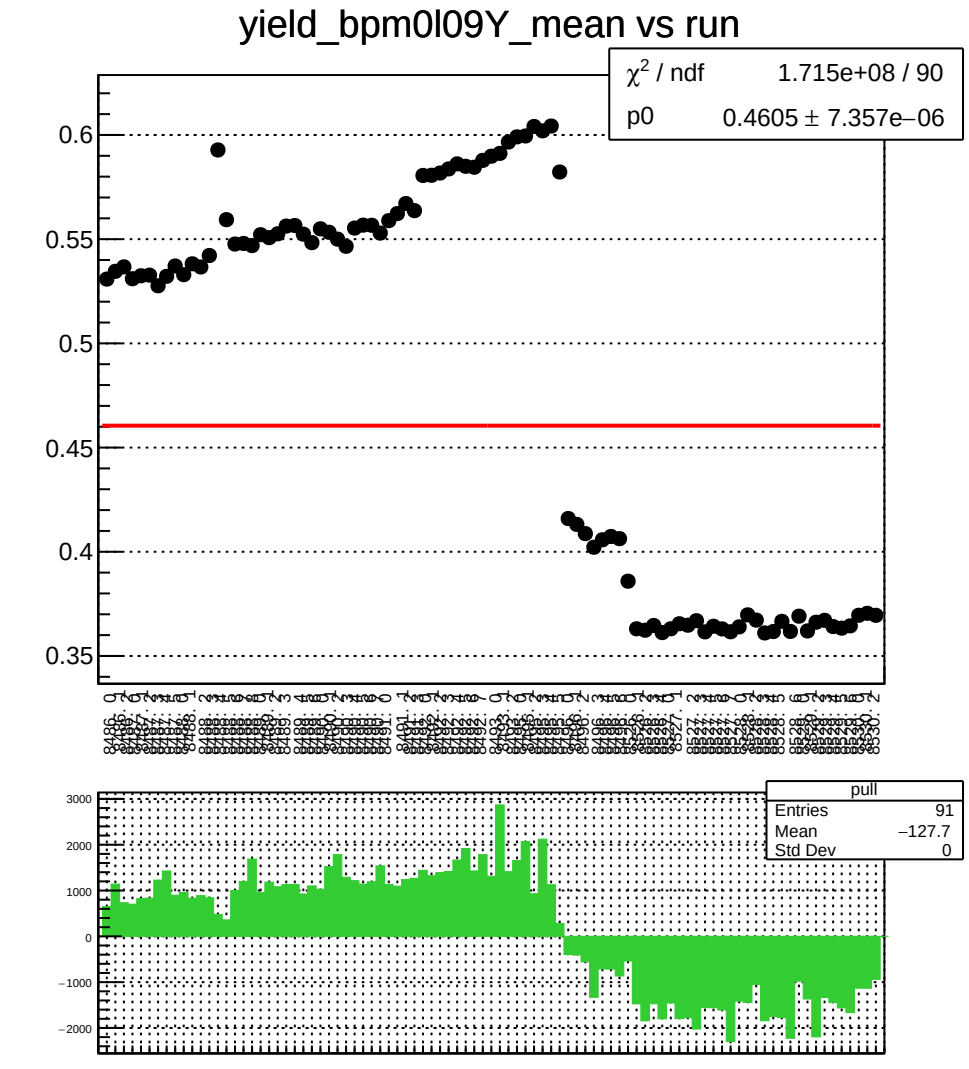

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

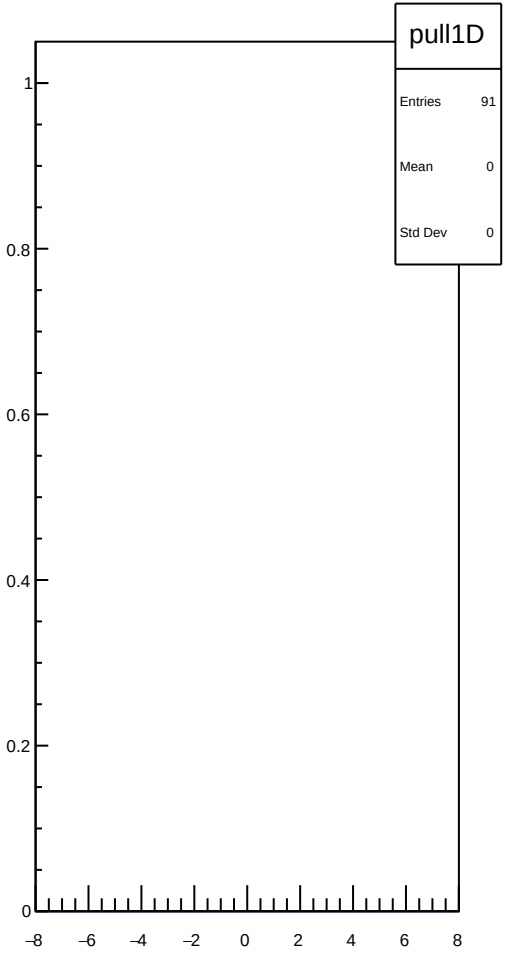

yield_bpm0l08Y_rms vs run
χ^2 / ndf 1.563e+05 / 90
p0 0.006414 ± 5.081e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

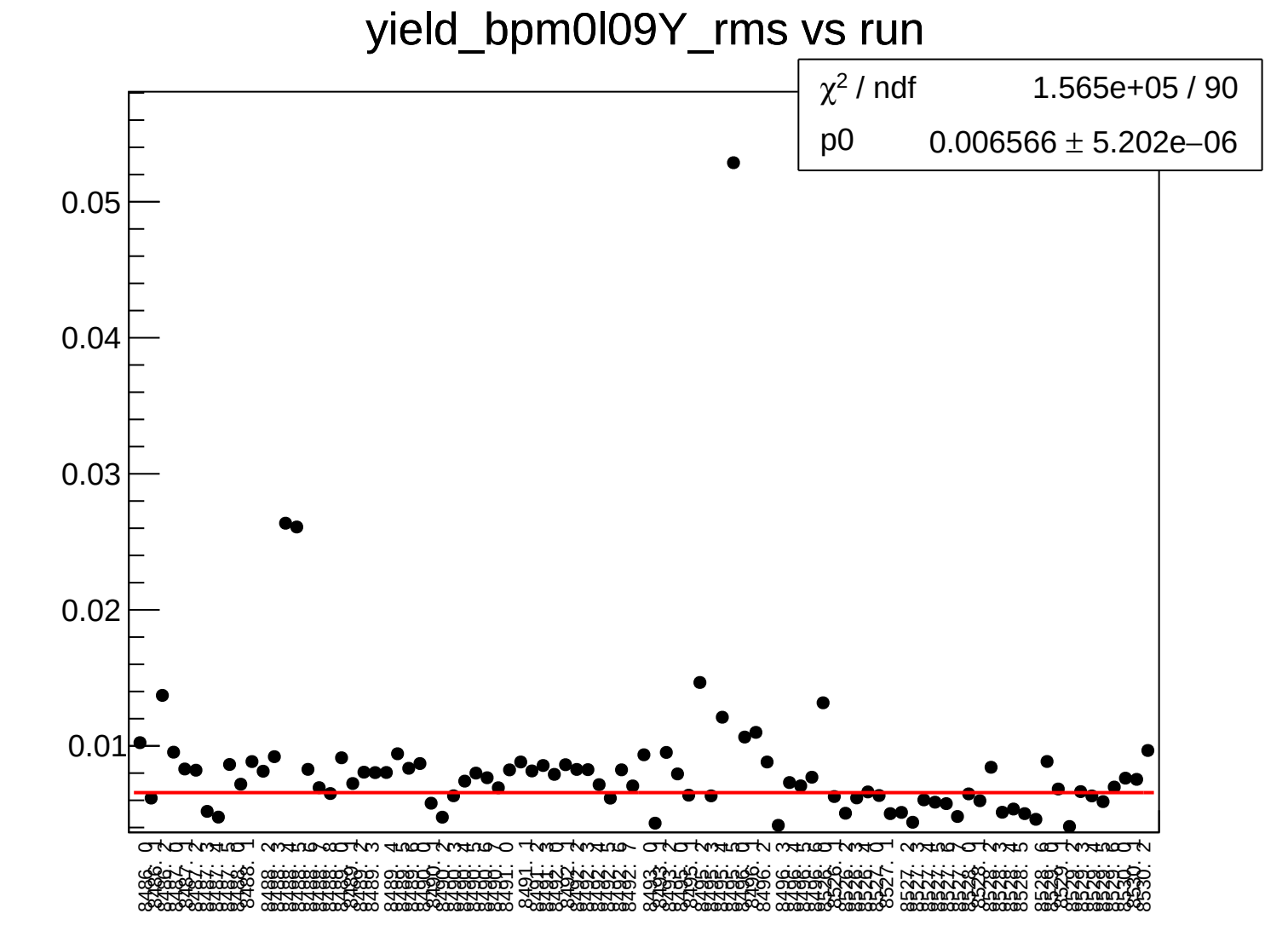

yield_bpm0l09X_mean vs run
χ² / ndf 3.908e+07 / 90
p0 0.5103 ± 2.515e−05
0.7
0.6
0.5
0.4
0.3
0.2
pull
Entries 91
Mean −95.47
Std Dev 0
1000
500
0
−500
−1000

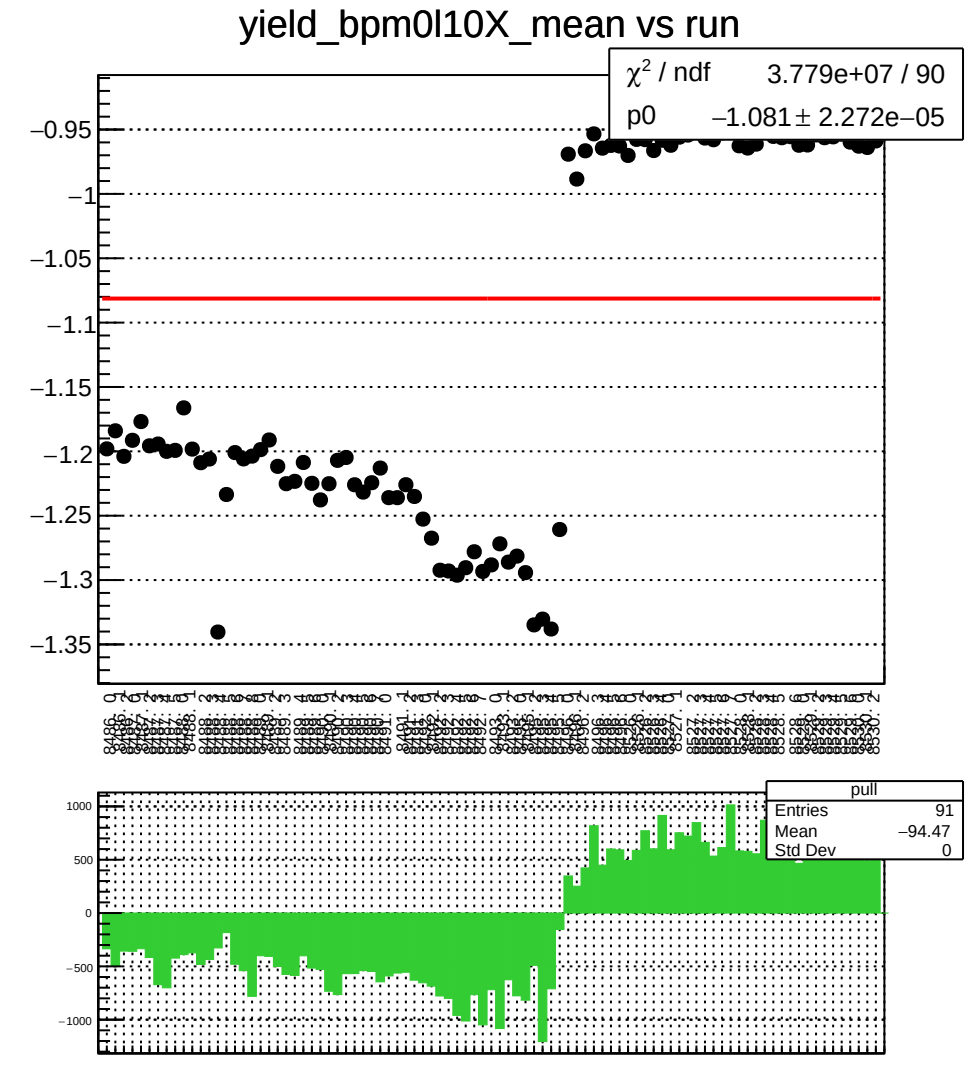

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

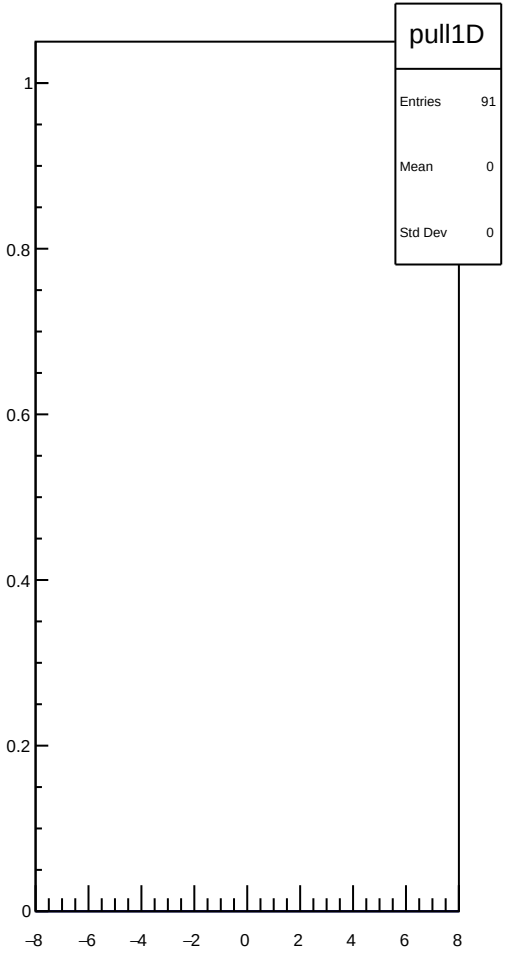

yield_bpm0l09X_rms vs run
χ² / ndf 1.389e+05 / 90
p0 0.02256 ± 1.778e–05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

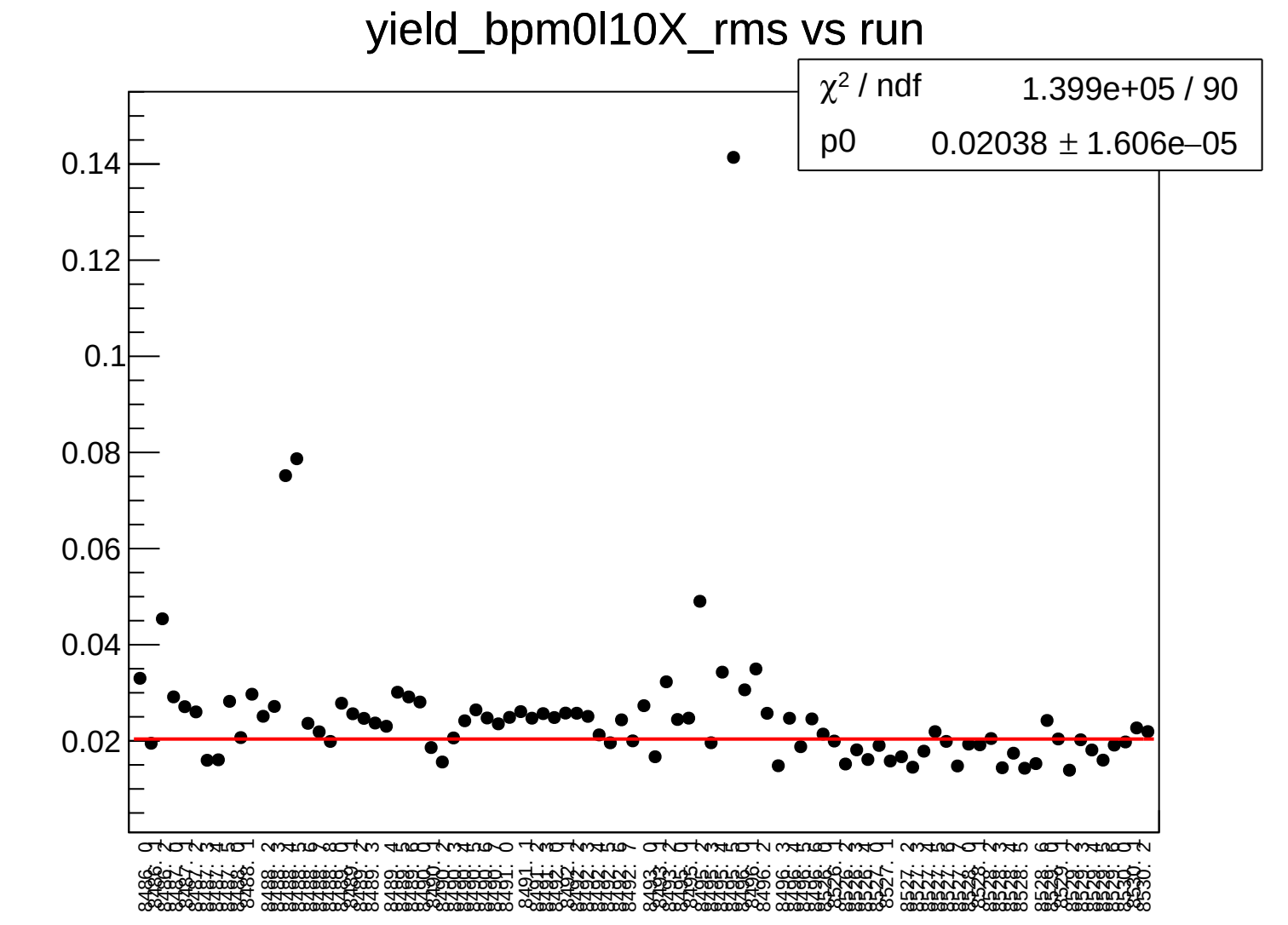

yield_bpm0l09Y_mean vs run
χ² / ndf 1.715e+08 / 90
p0 0.4605 ± 7.357e−06
0.6
0.55
0.5
0.45
0.4
0.35
pull
Entries 91
Mean −127.7
Std Dev 0
3000
2000
1000
0
−1000
−2000

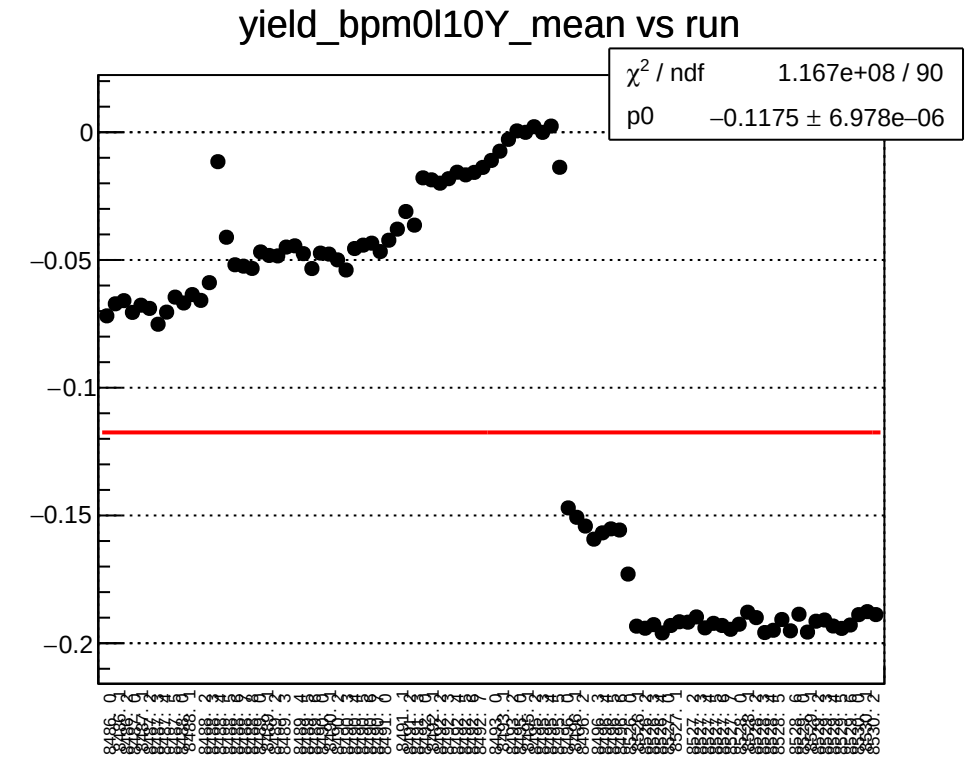

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

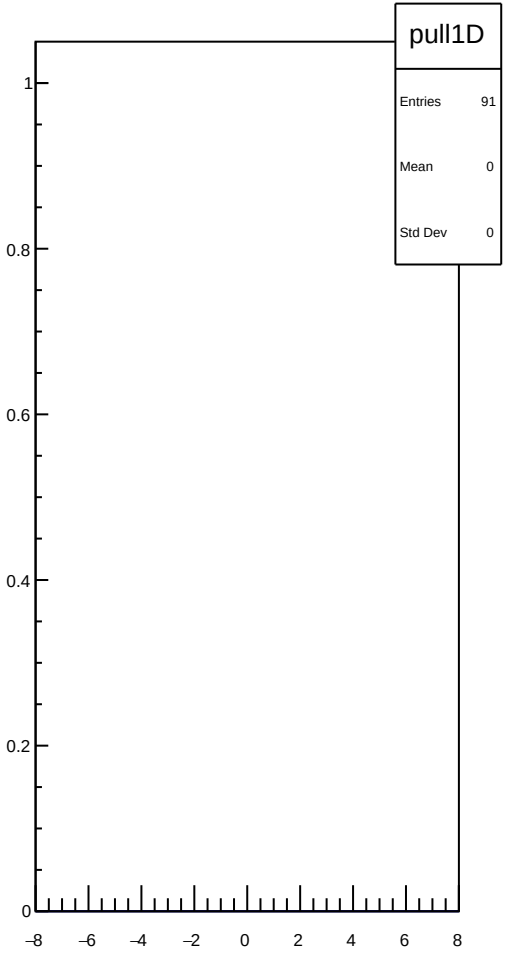

yield_bpm0l09Y_rms vs run
χ² / ndf 1.565e+05 / 90
p0 0.006566 ± 5.202e−06
0.05
0.04
0.03
0.02
0.01

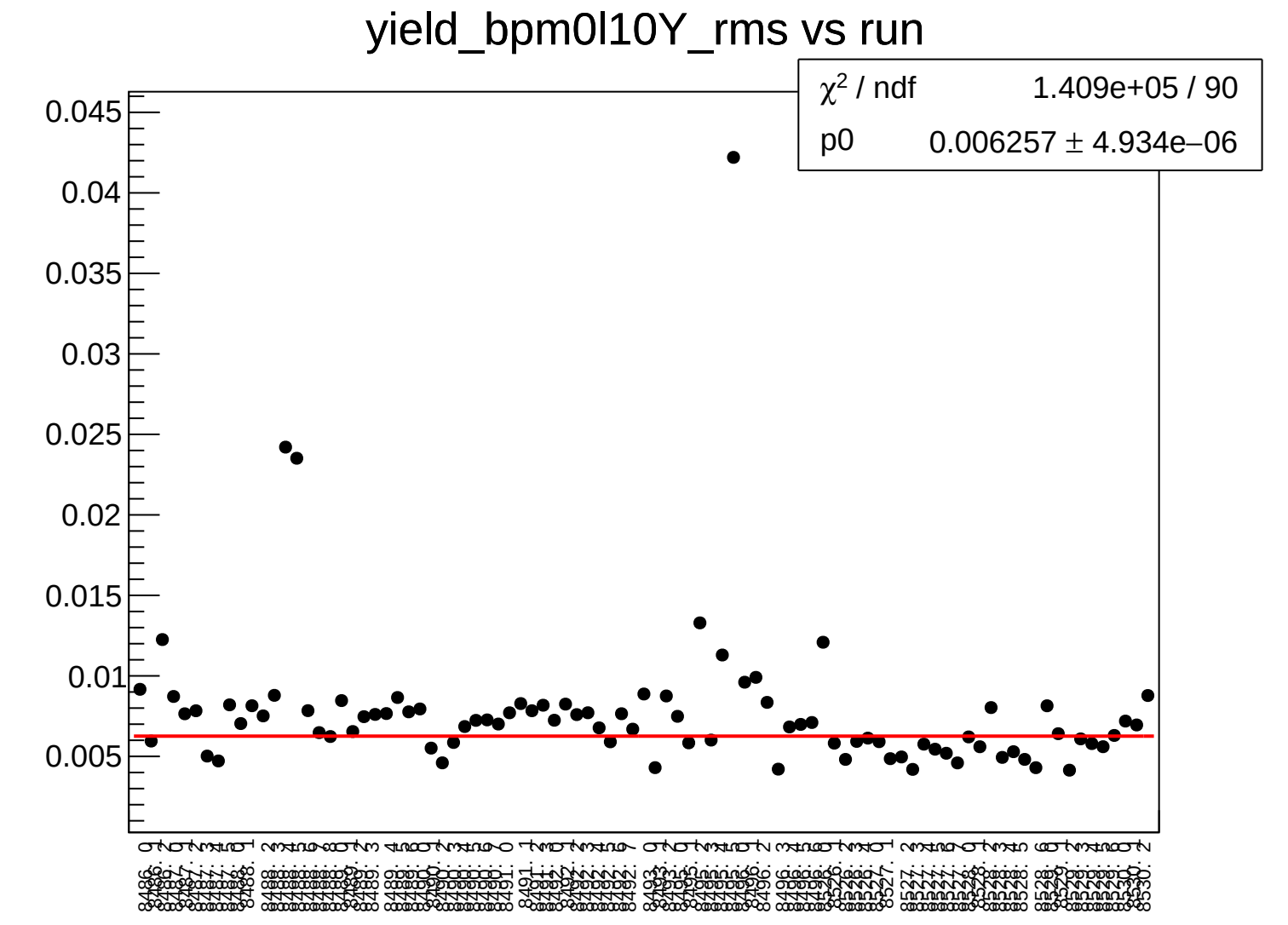

yield_bpm0l10X_mean vs run
χ² / ndf 3.779e+07 / 90
p0 −1.081 ± 2.272e−05
−0.95
−1
−1.05
−1.1
−1.15
−1.2
−1.25
−1.3
−1.35
pull
Entries 91
Mean −94.47
Std Dev 0
1000
500
0
−500
−1000

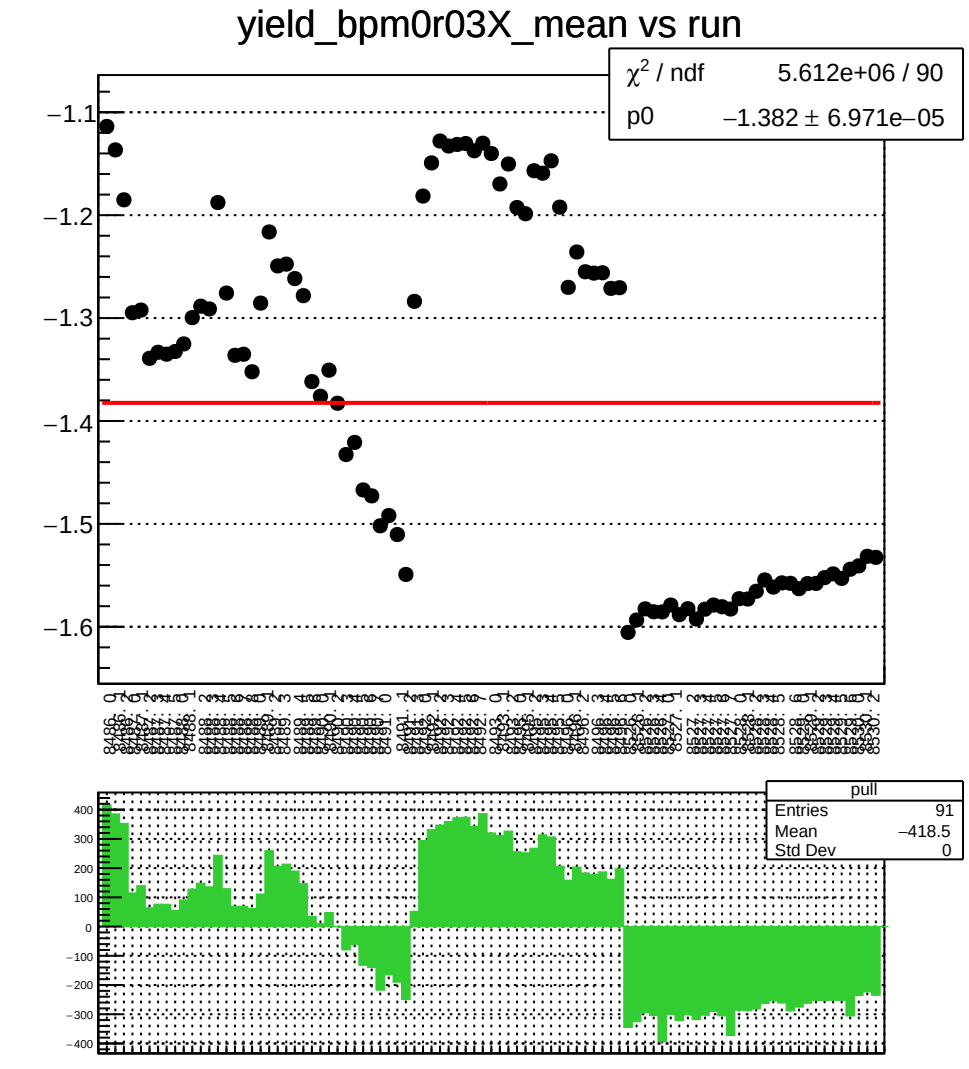

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

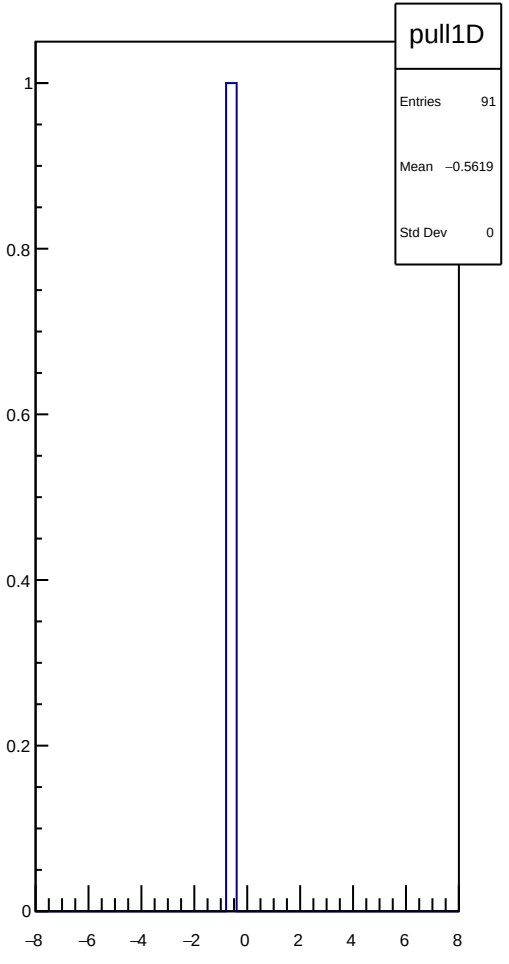

yield_bpm0l10X_rms vs run
χ² / ndf 1.399e+05 / 90
p0 0.02038 ± 1.606e–05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

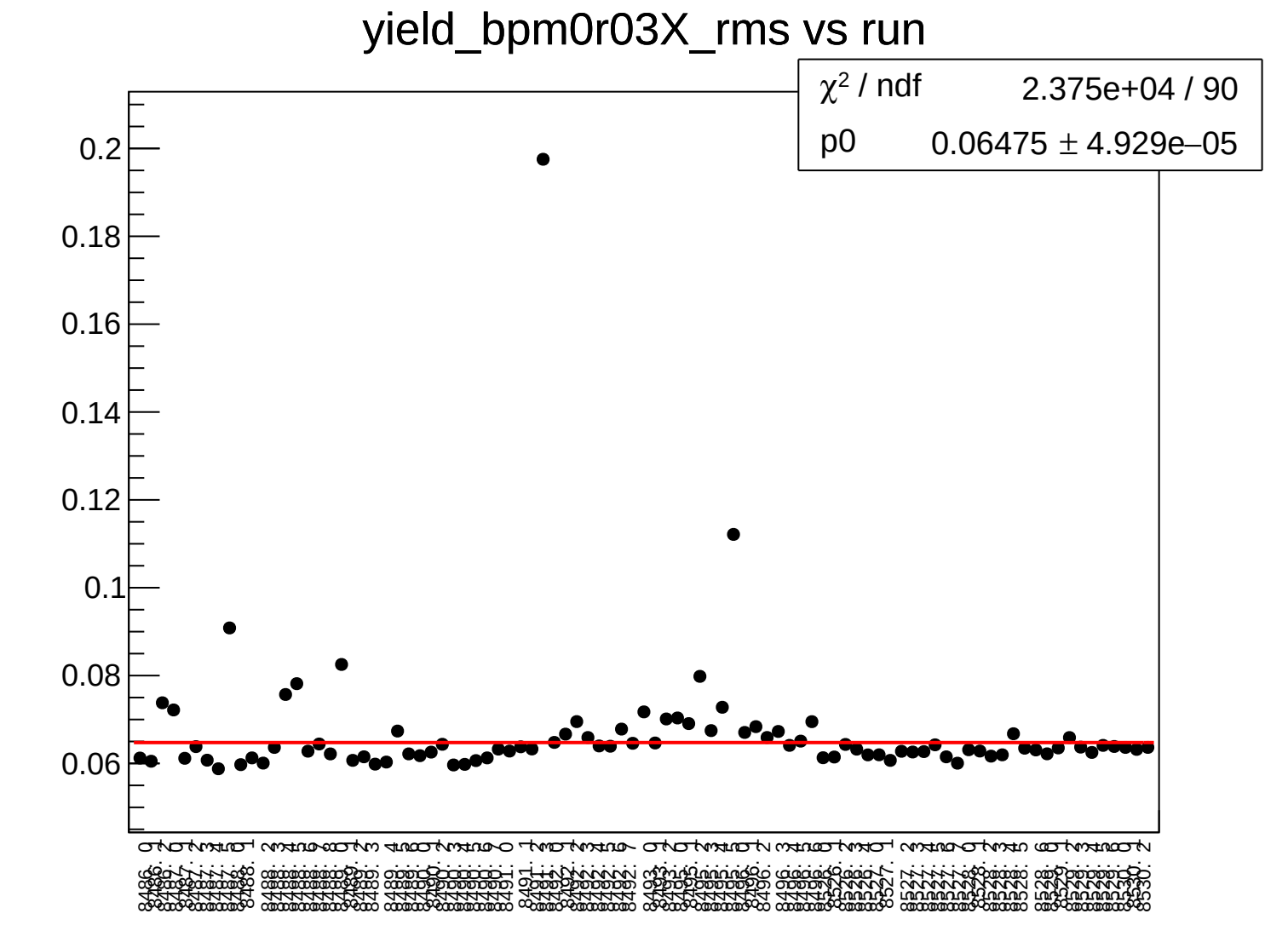

yield_bpm0l10Y_mean vs run
χ² / ndf 1.167e+08 / 90
p0 −0.1175 ± 6.978e−06
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 91
Mean −121.7
Std Dev 0
2500
2000
1500
1000
500
0
−500
−1000
−1500
−2000

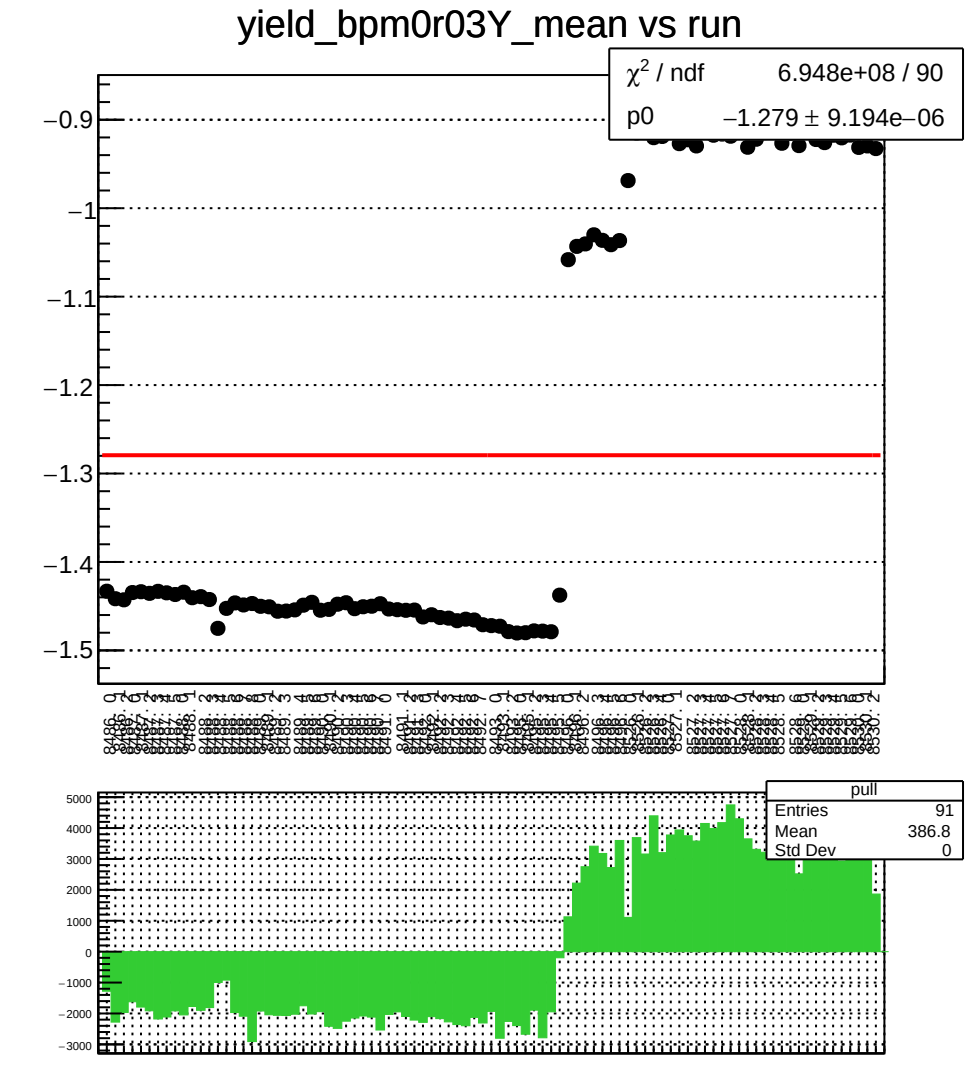

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

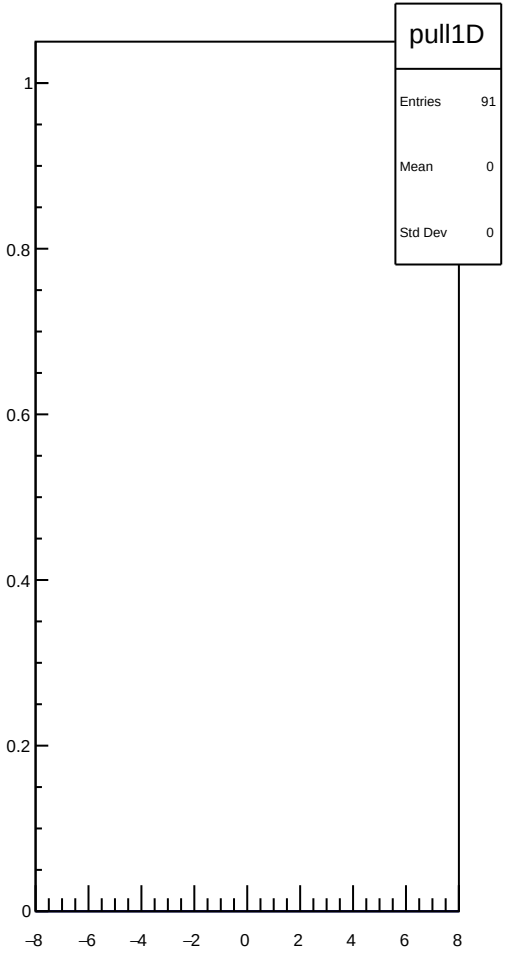

yield_bpm0l10Y_rms vs run
χ² / ndf 1.409e+05 / 90
p0 0.006257 ± 4.934e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

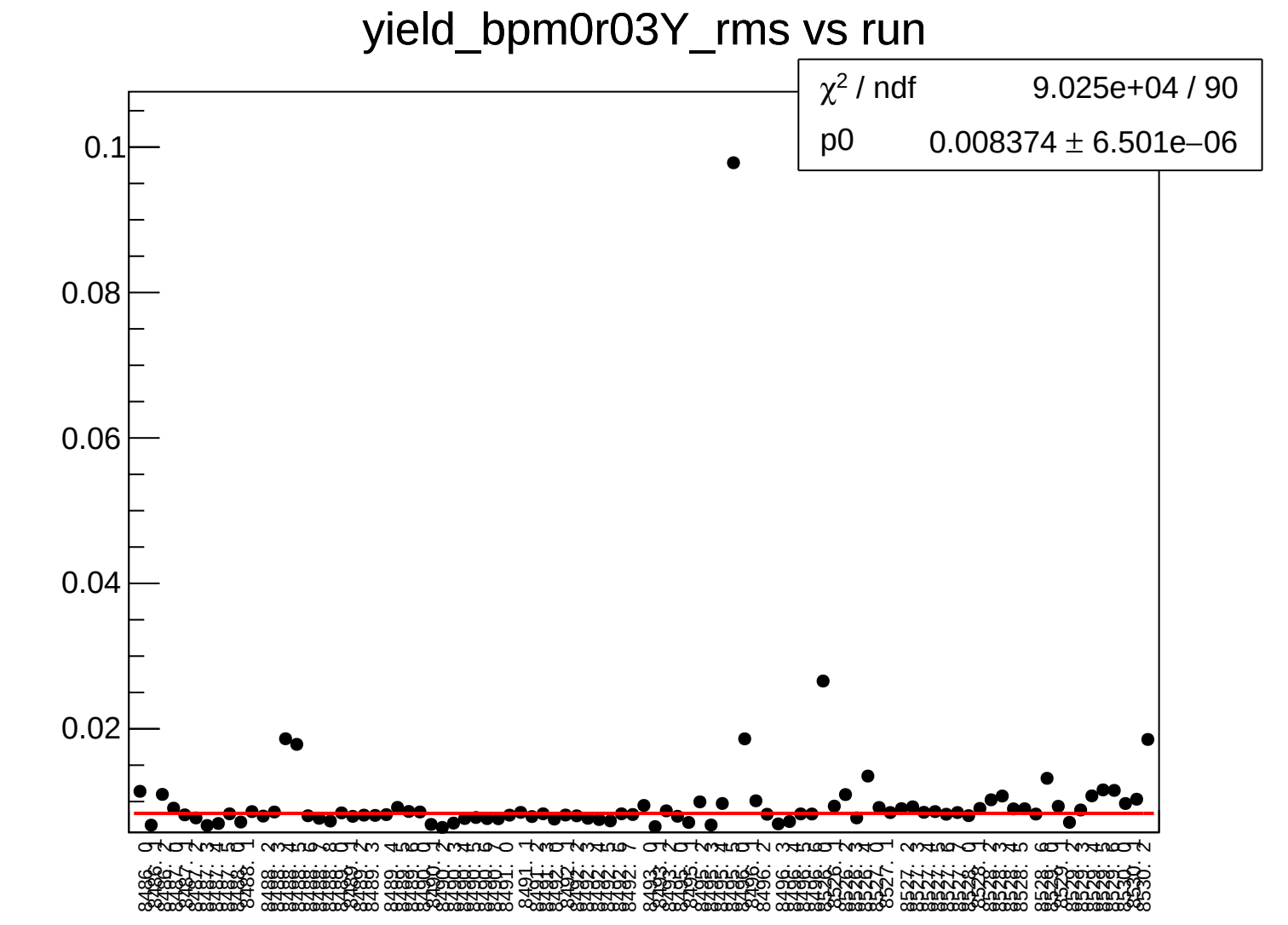

yield_bpm0r03X_mean vs run
χ² / ndf 5.612e+06 / 90
p0 −1.382 ± 6.971e−05
−1.1
−1.2
−1.3
−1.4
−1.5
−1.6
pull
Entries 91
Mean −418.5
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400

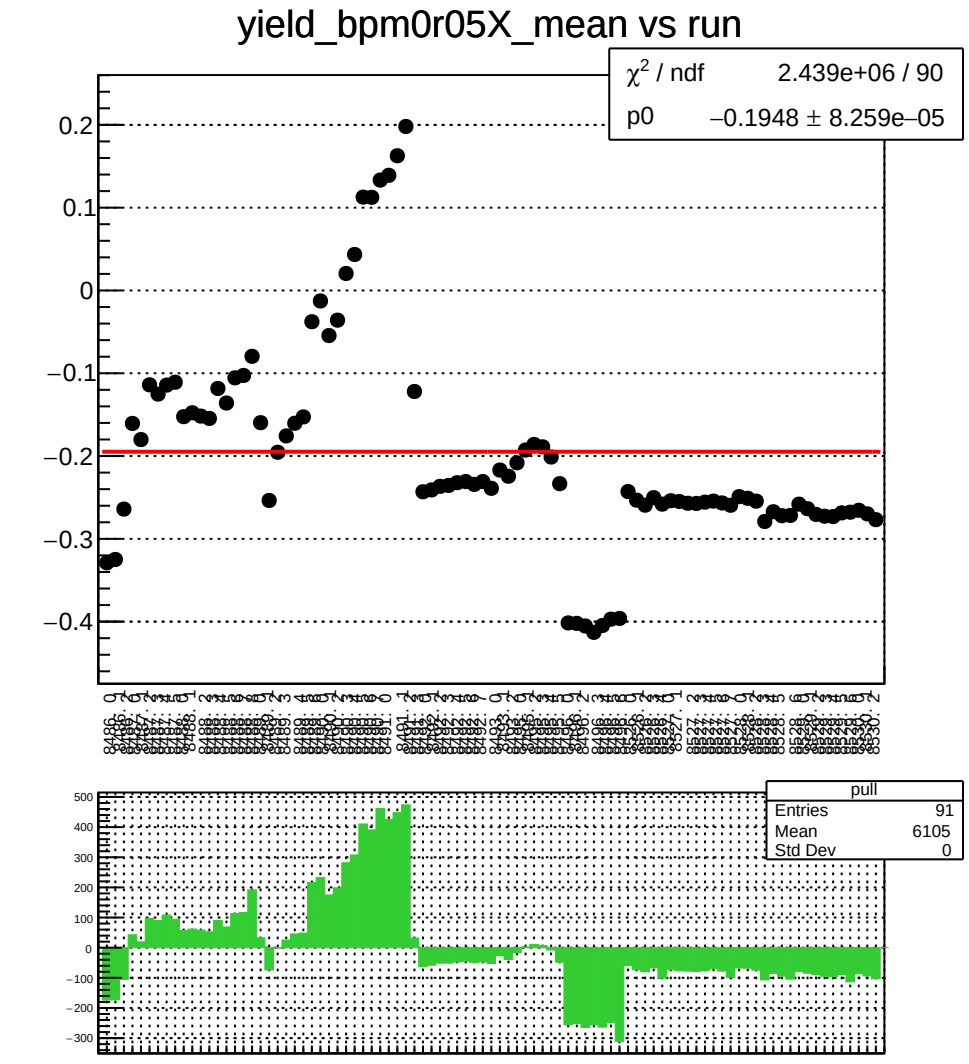

pull1D
Entries 91
Mean −0.5619
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

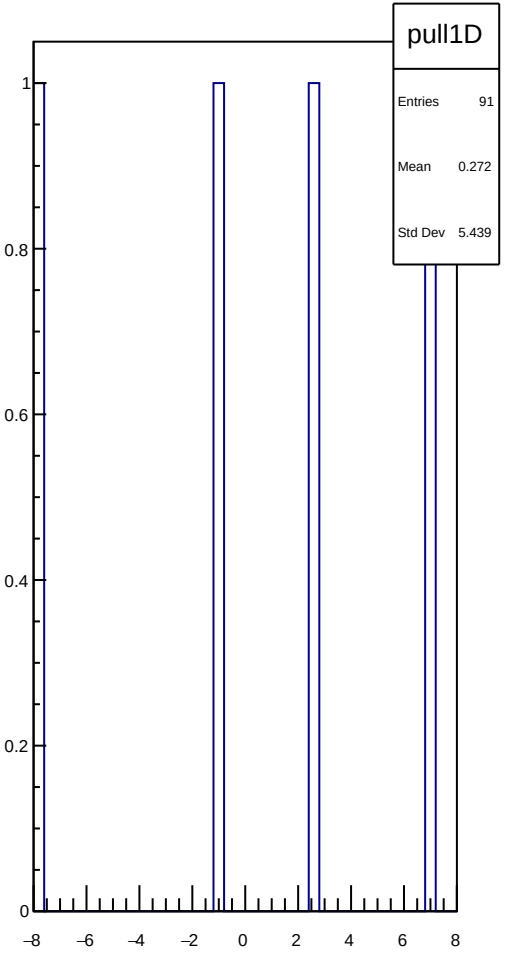

yield_bpm0r03X_rms vs run
χ² / ndf 2.375e+04 / 90
p0 0.06475 ± 4.929e–05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06

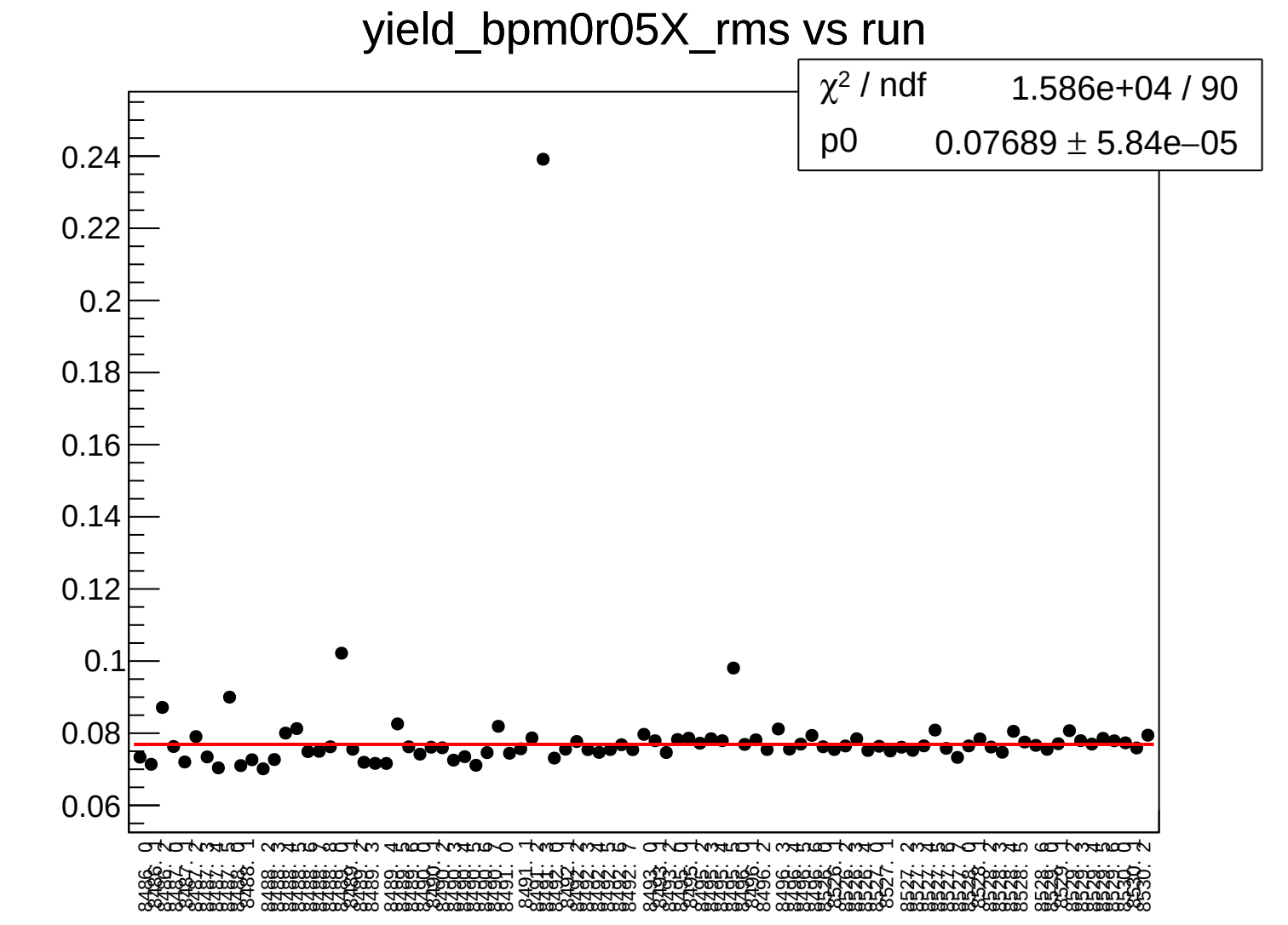

yield_bpm0r03Y_mean vs run
χ² / ndf 6.948e+08 / 90
p0 −1.279 ± 9.194e−06
−0.9
−1
−1.1
−1.2
−1.3
−1.4
−1.5
pull
Entries 91
Mean 386.8
Std Dev 0
5000
4000
3000
2000
1000
0
−1000
−2000
−3000

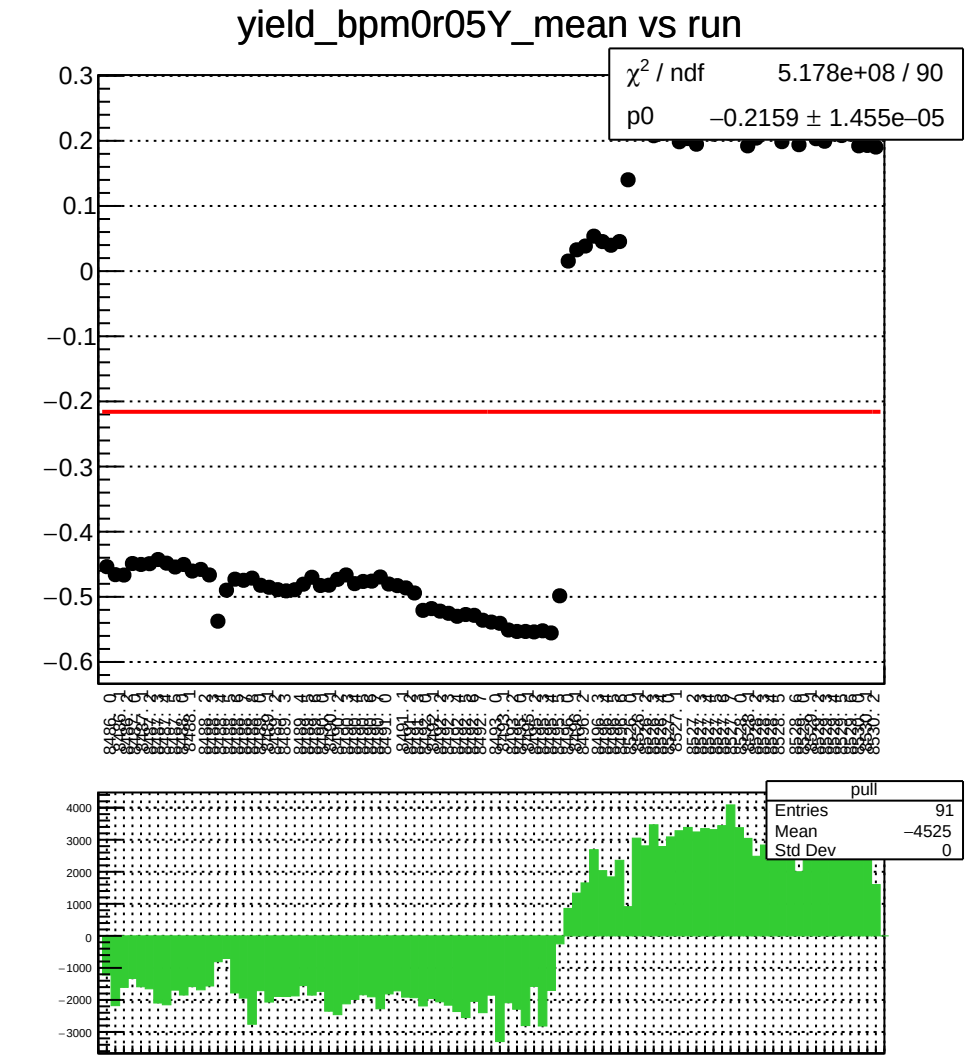

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

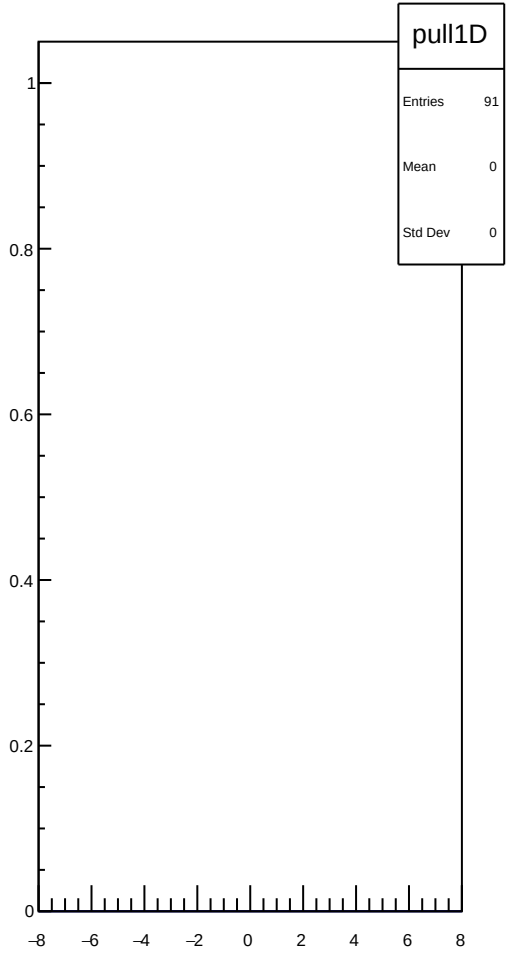

yield_bpm0r03Y_rms vs run
χ^2 / ndf 9.025e+04 / 90
p0 0.008374 ± 6.501e−06
0.1
0.08
0.06
0.04
0.02

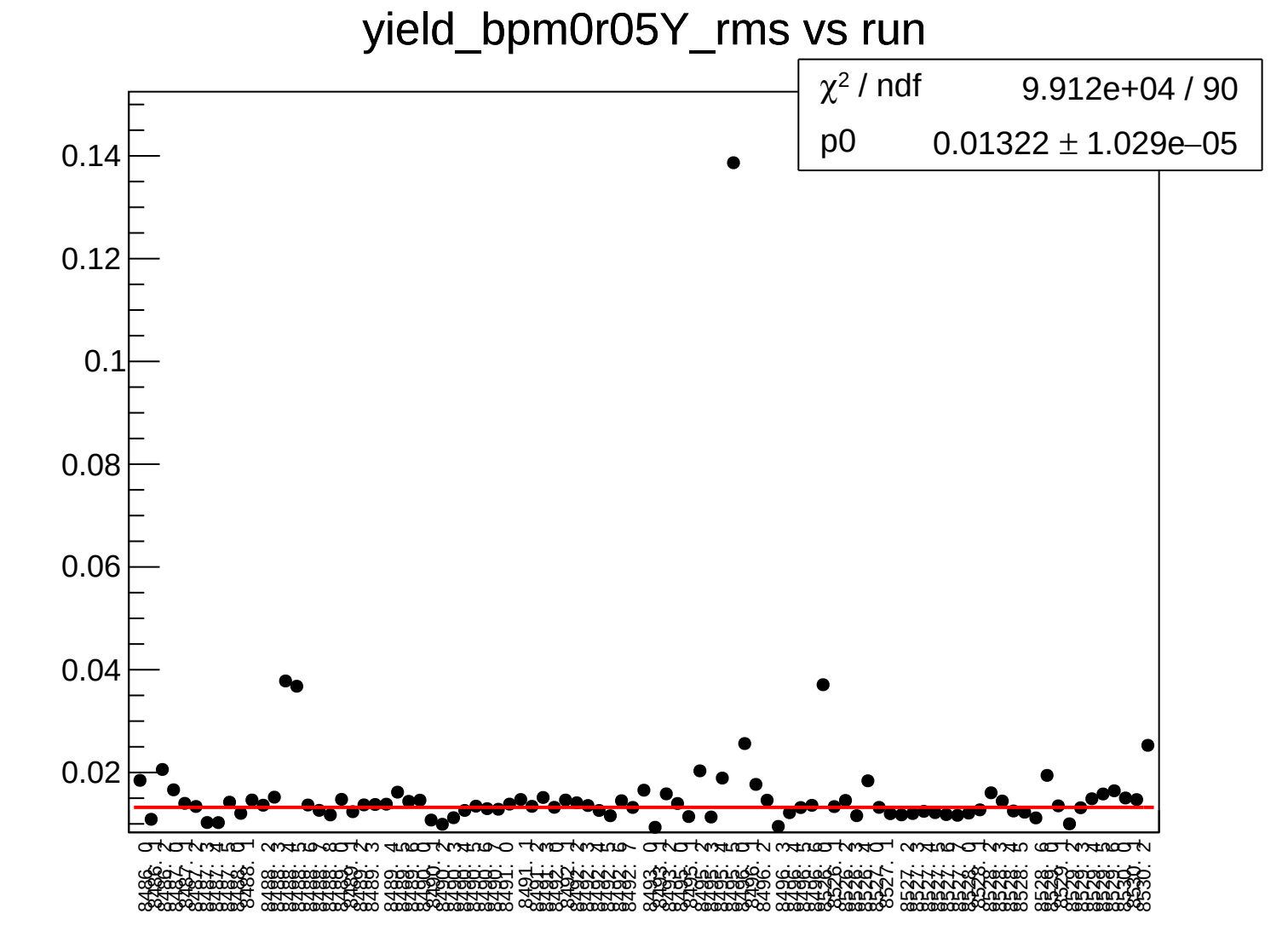

yield_bpm0r05X_mean vs run
χ² / ndf 2.439e+06 / 90
p0 −0.1948 ± 8.259e−05
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull
Entries 91
Mean 6105
Std Dev 0
500
400
300
200
100
0
−100
−200
−300

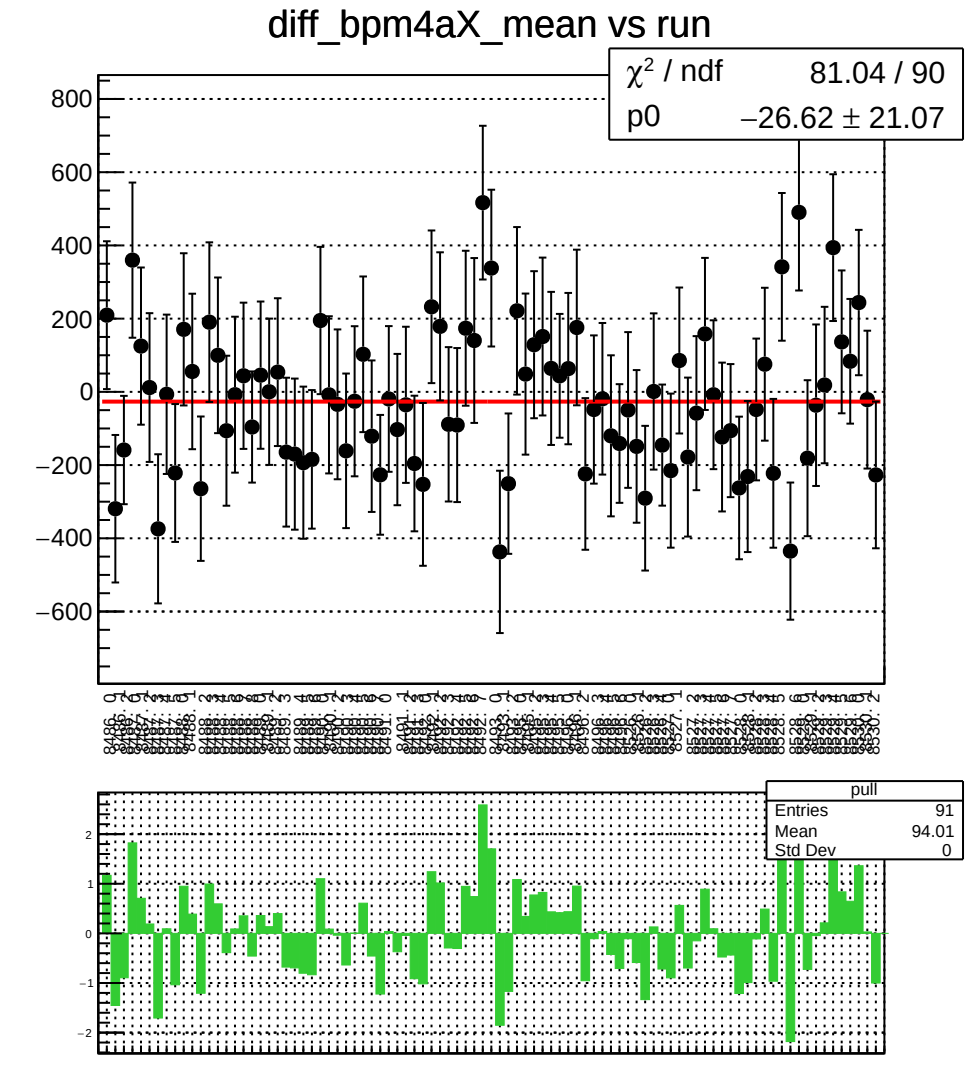

pull1D
Entries 91
Mean 0.272
Std Dev 5.439
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

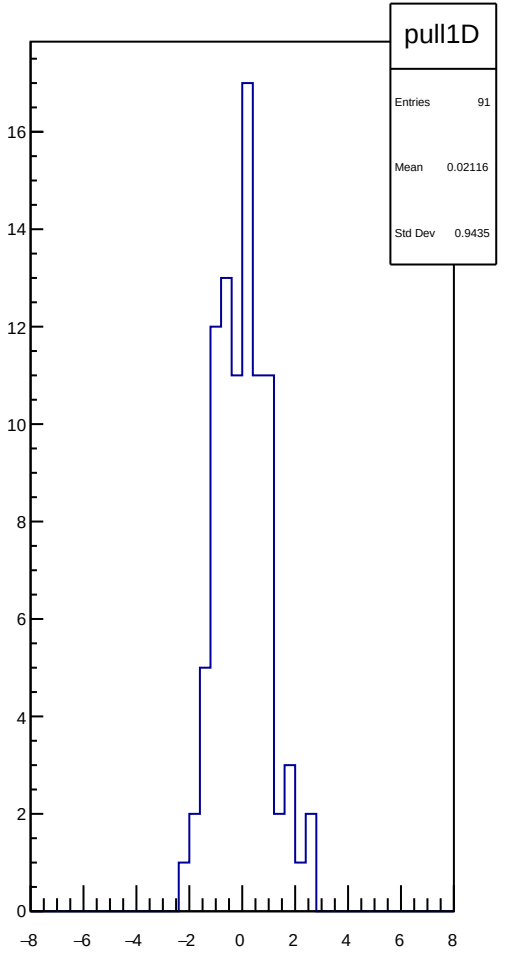

yield_bpm0r05X_rms vs run
χ² / ndf 1.586e+04 / 90
p0 0.07689 ± 5.84e−05
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06

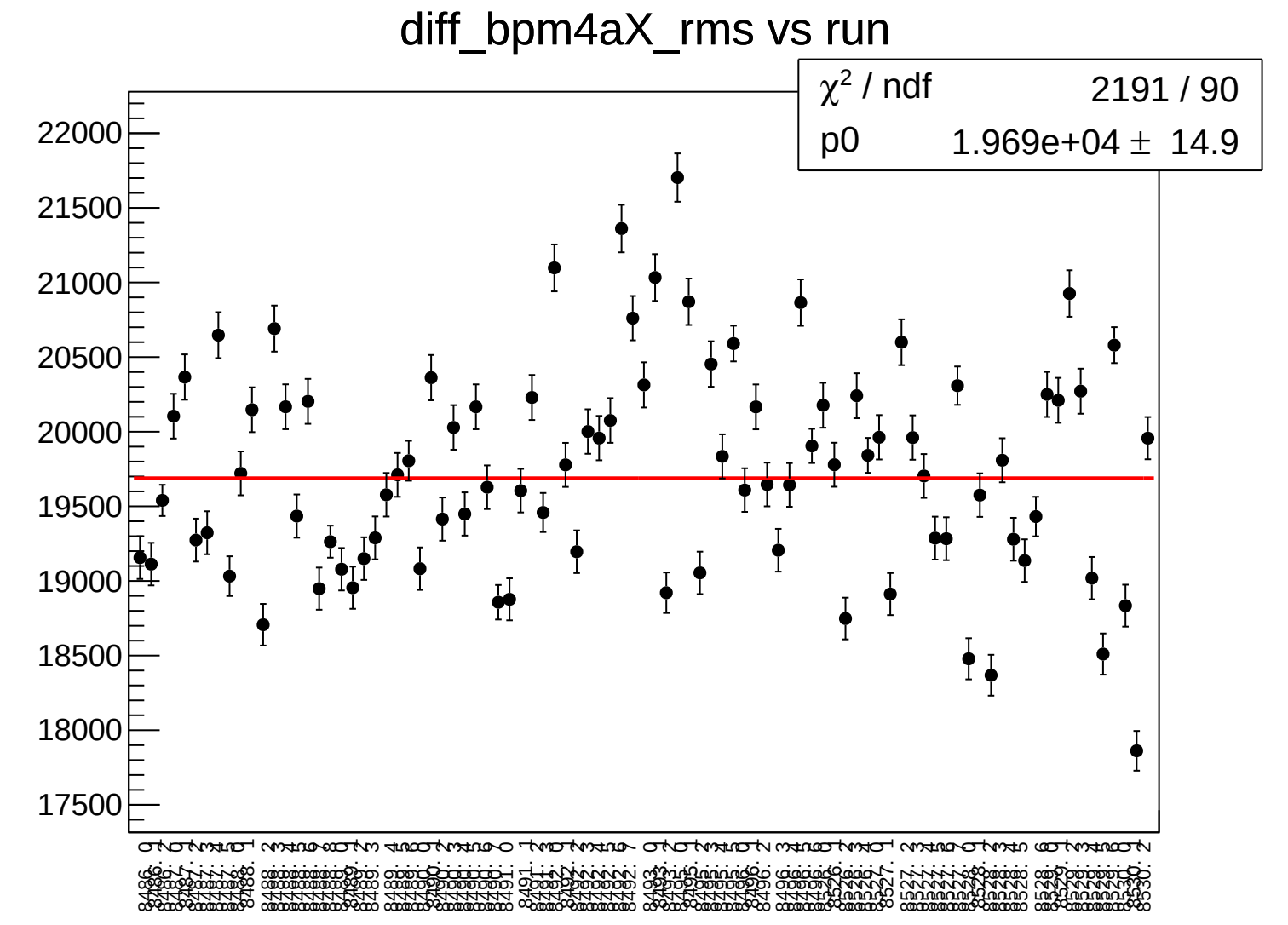

yield_bpm0r05Y_mean vs run
χ² / ndf 5.178e+08 / 90
p0 −0.2159 ± 1.455e−05
pull
Entries 91
Mean −4525
Std Dev 0

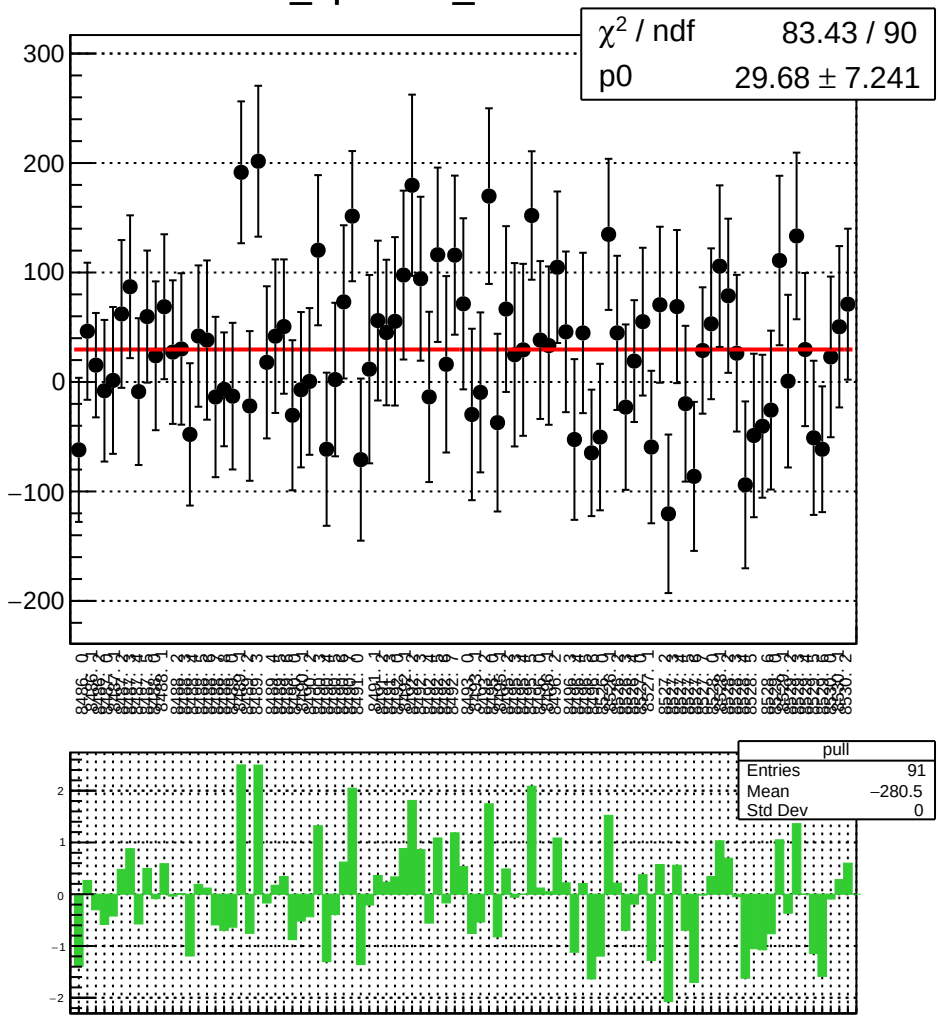

pull1D
Entries 91
Mean 0
Std Dev 0

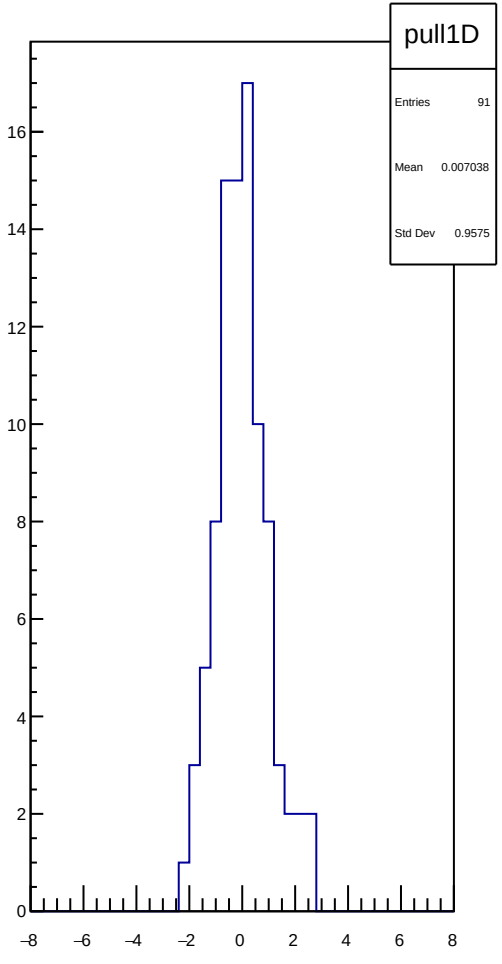

yield_bpm0r05Y_rms vs run
χ² / ndf 9.912e+04 / 90
p0 0.01322 ± 1.029e−05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

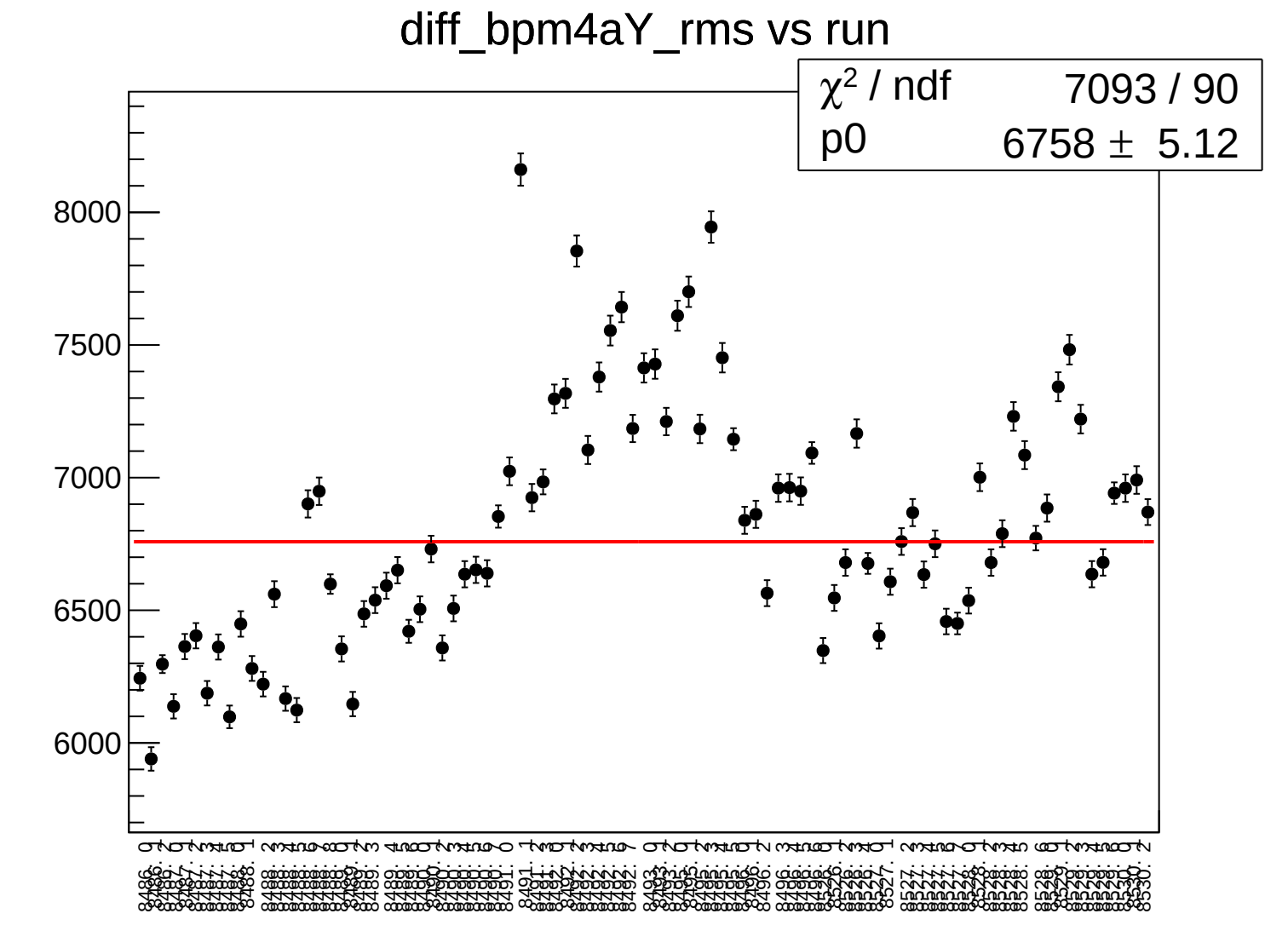

diff_bpm4aX_mean vs run
χ² / ndf 81.04 / 90
p0 −26.62 ± 21.07
800
600
400
200
0
−200
−400
−600
pull
Entries 91
Mean 94.01
Std Dev 0
2
1
0
−1
−2

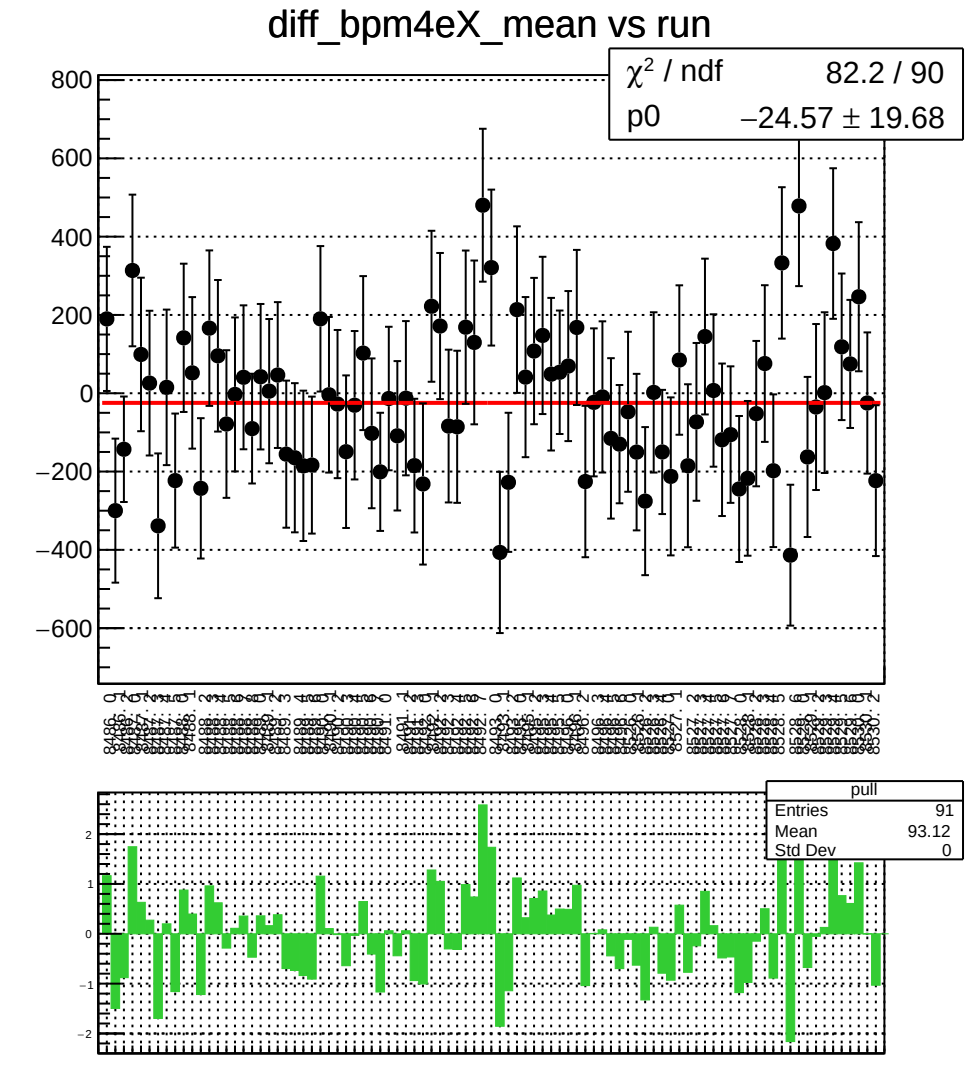

pull1D
Entries 91
Mean 0.02116
Std Dev 0.9435
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

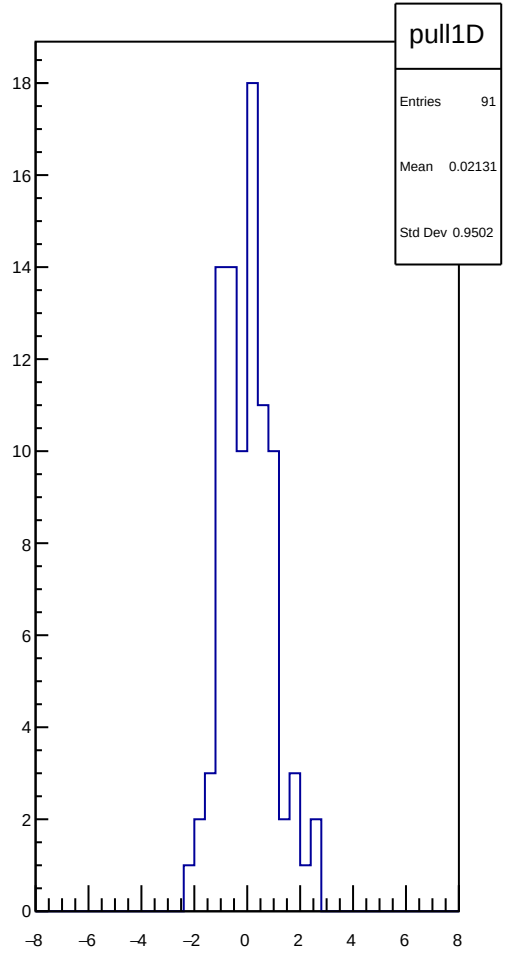

diff_bpm4aX_rms vs run
χ² / ndf 2191 / 90
p0 1.969e+04 ± 14.9
22000
21500
21000
20500
20000
19500
19000
18500
18000
17500

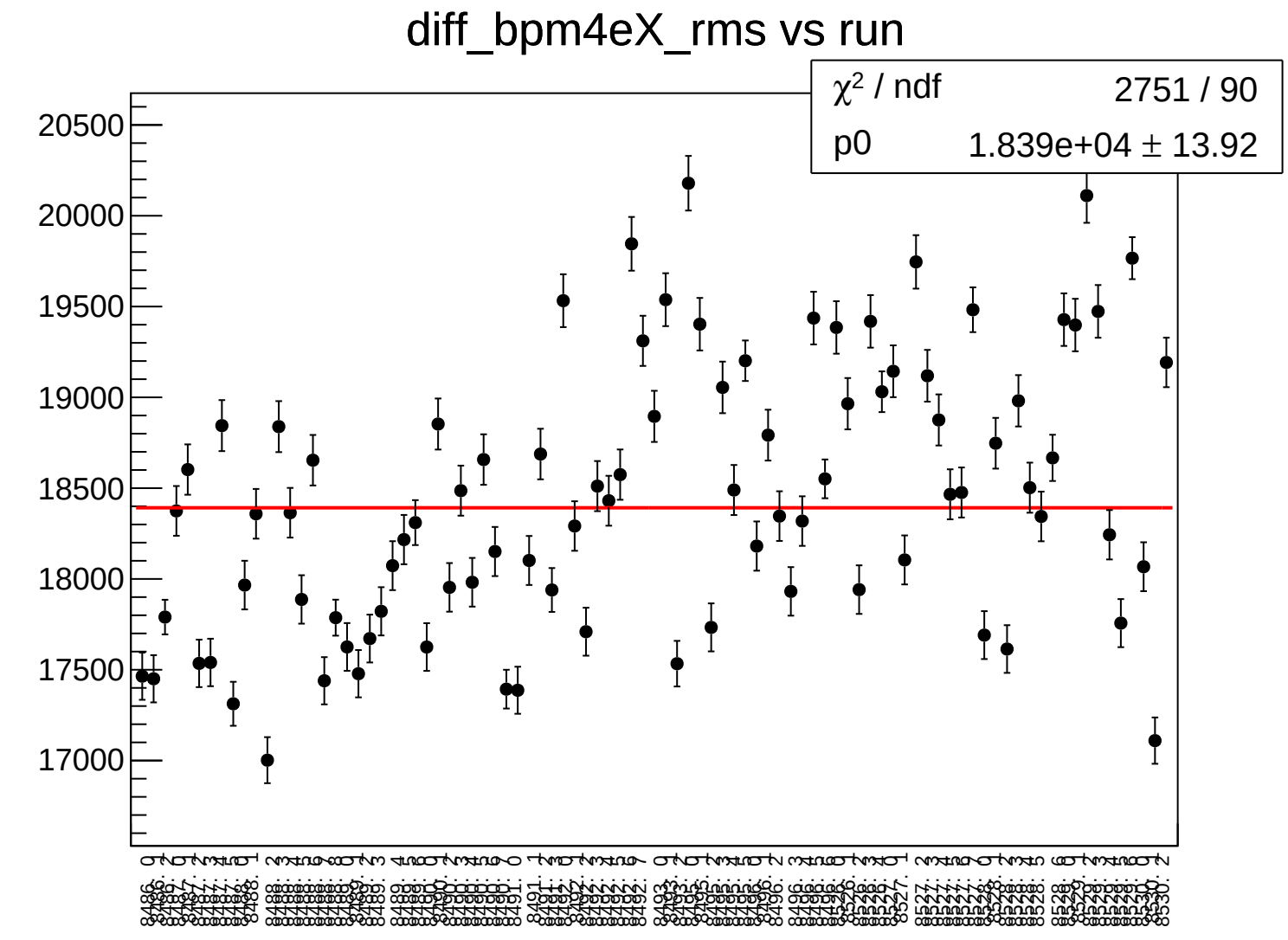

diff_bpm4aY_mean vs run
χ² / ndf 83.43 / 90
p0 29.68 ± 7.241
300
200
100
0
−100
−200
pull
Entries 91
Mean −280.5
Std Dev 0
2
1
0
−1
−2

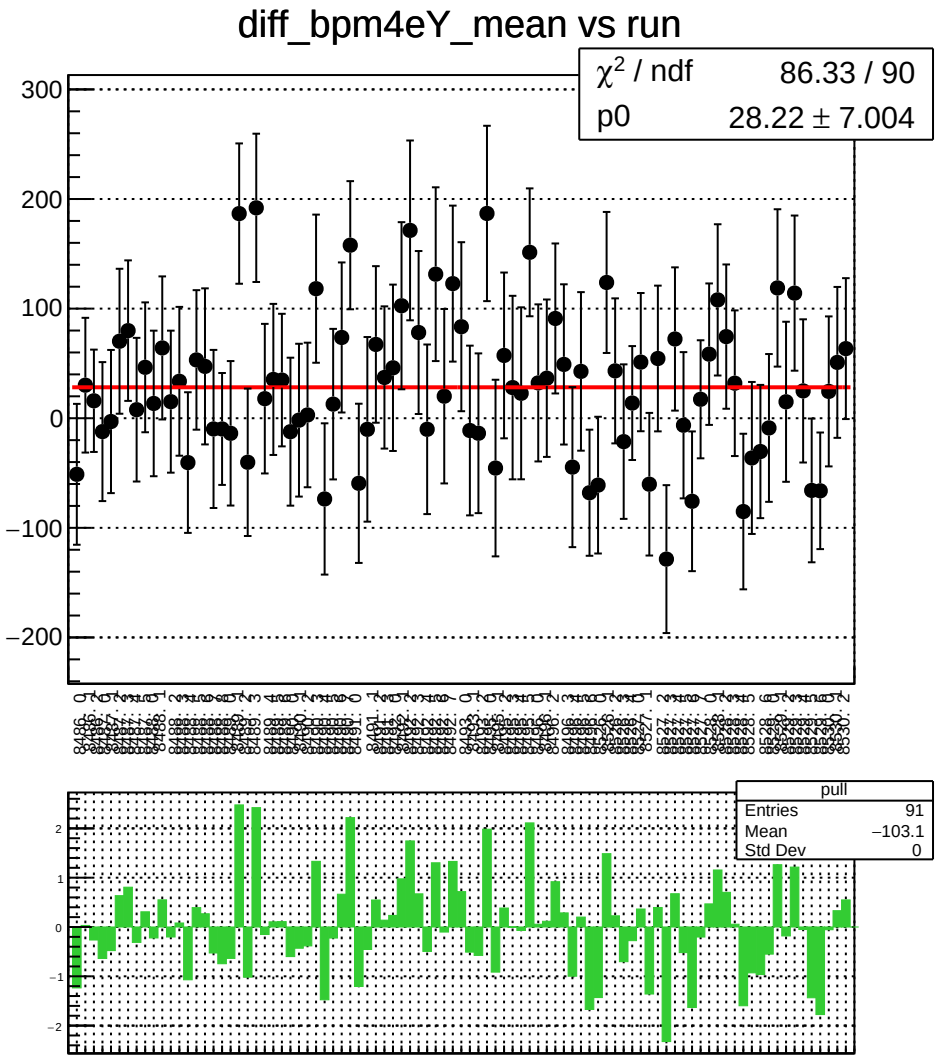

pull1D
Entries 91
Mean 0.007038
Std Dev 0.9575
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

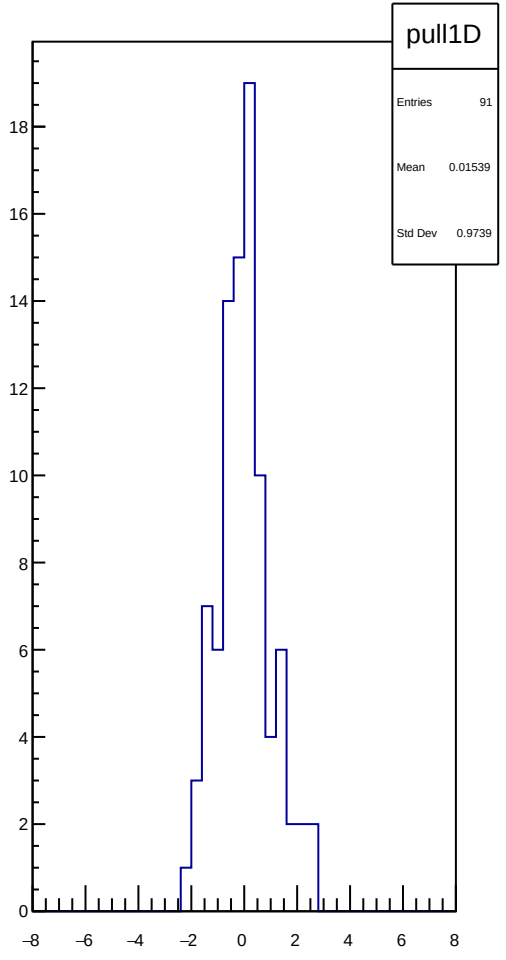

diff_bpm4aY_rms vs run
χ² / ndf 7093 / 90
p0 6758 ± 5.12
8000
7500
7000
6500
6000

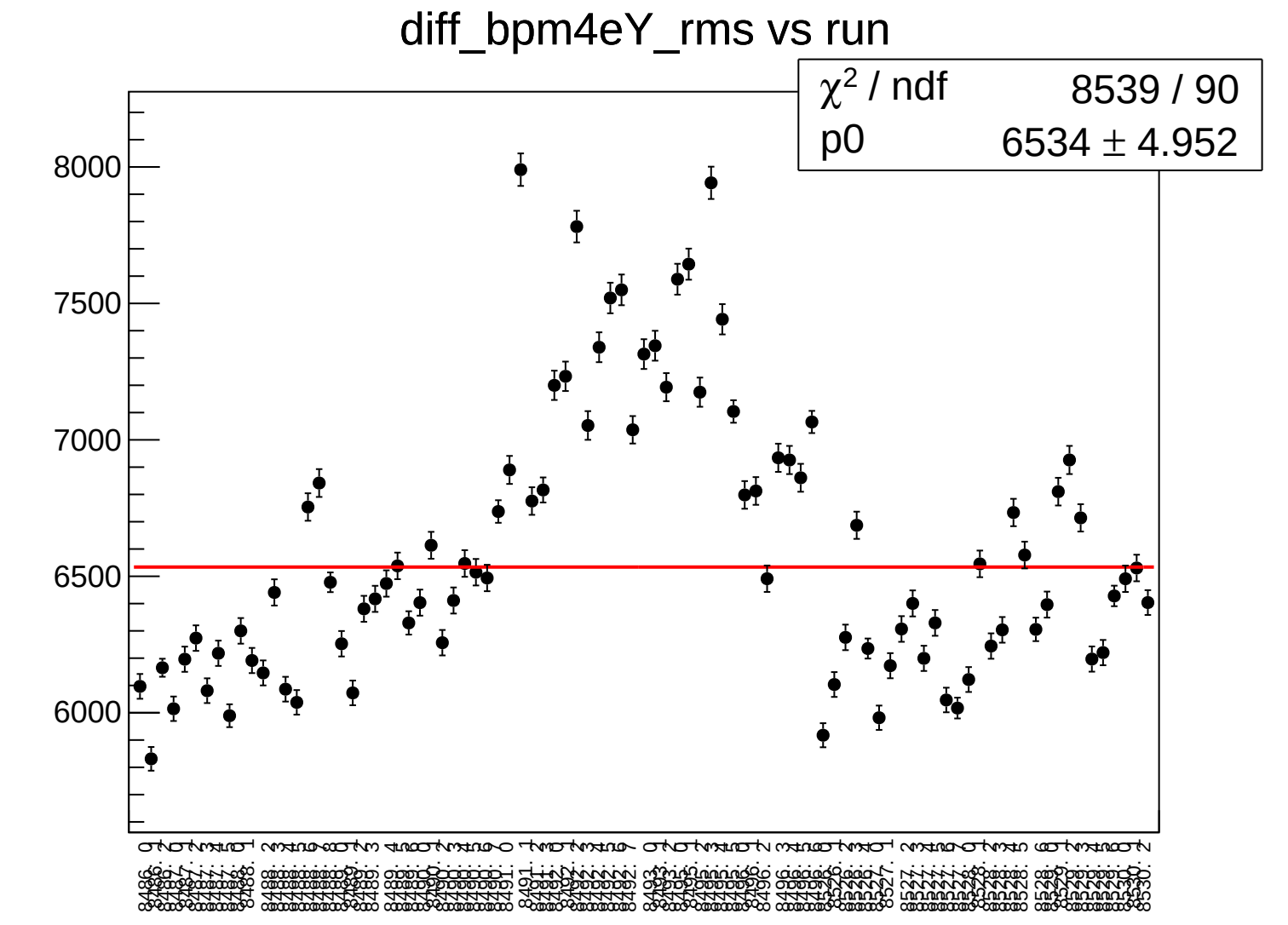

diff_bpm4eX_mean vs run
χ² / ndf 82.2 / 90
p0 −24.57 ± 19.68
800
600
400
200
0
−200
−400
−600
pull
Entries 91
Mean 93.12
Std Dev 0
2
1
0
−1
−2

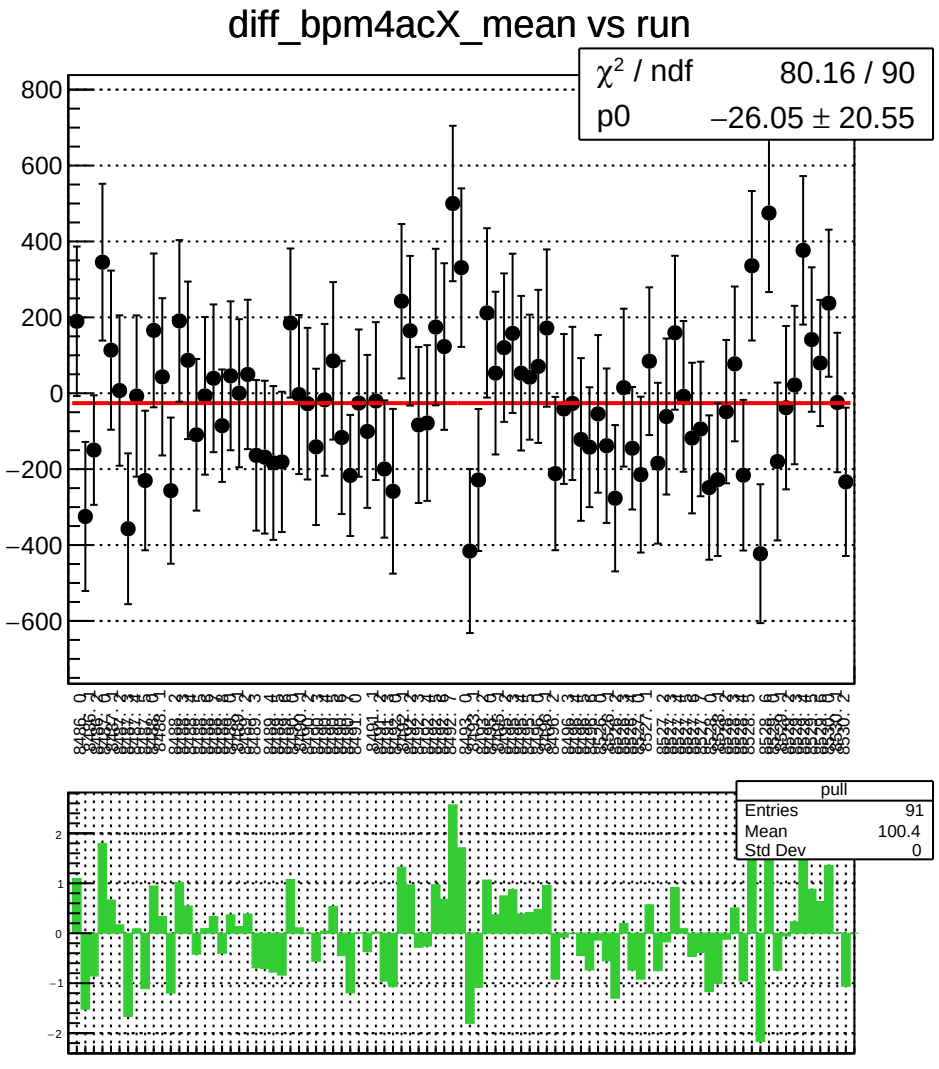

pull1D
Entries 91
Mean 0.02131
Std Dev 0.9502
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

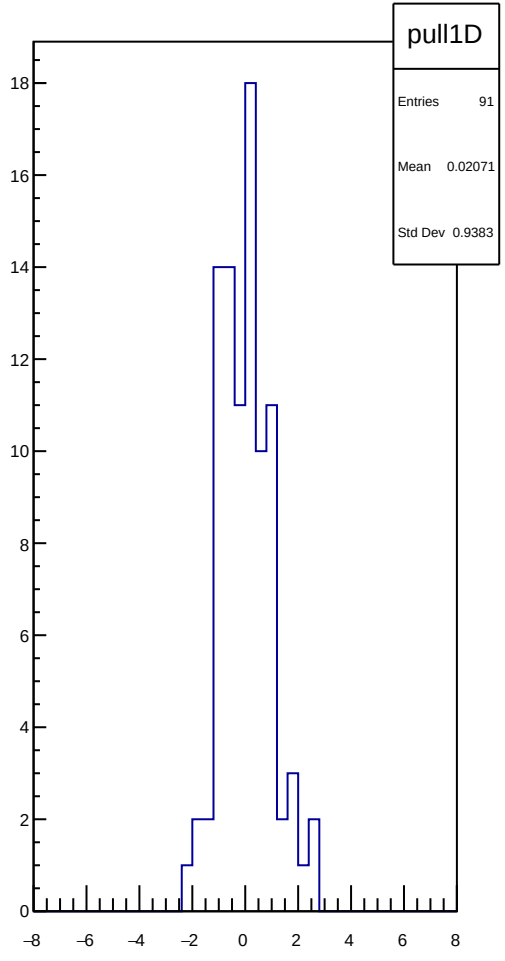

diff_bpm4eX_rms vs run
χ² / ndf 2751 / 90
p0 1.839e+04 ± 13.92
20500
20000
19500
19000
18500
18000
17500
17000

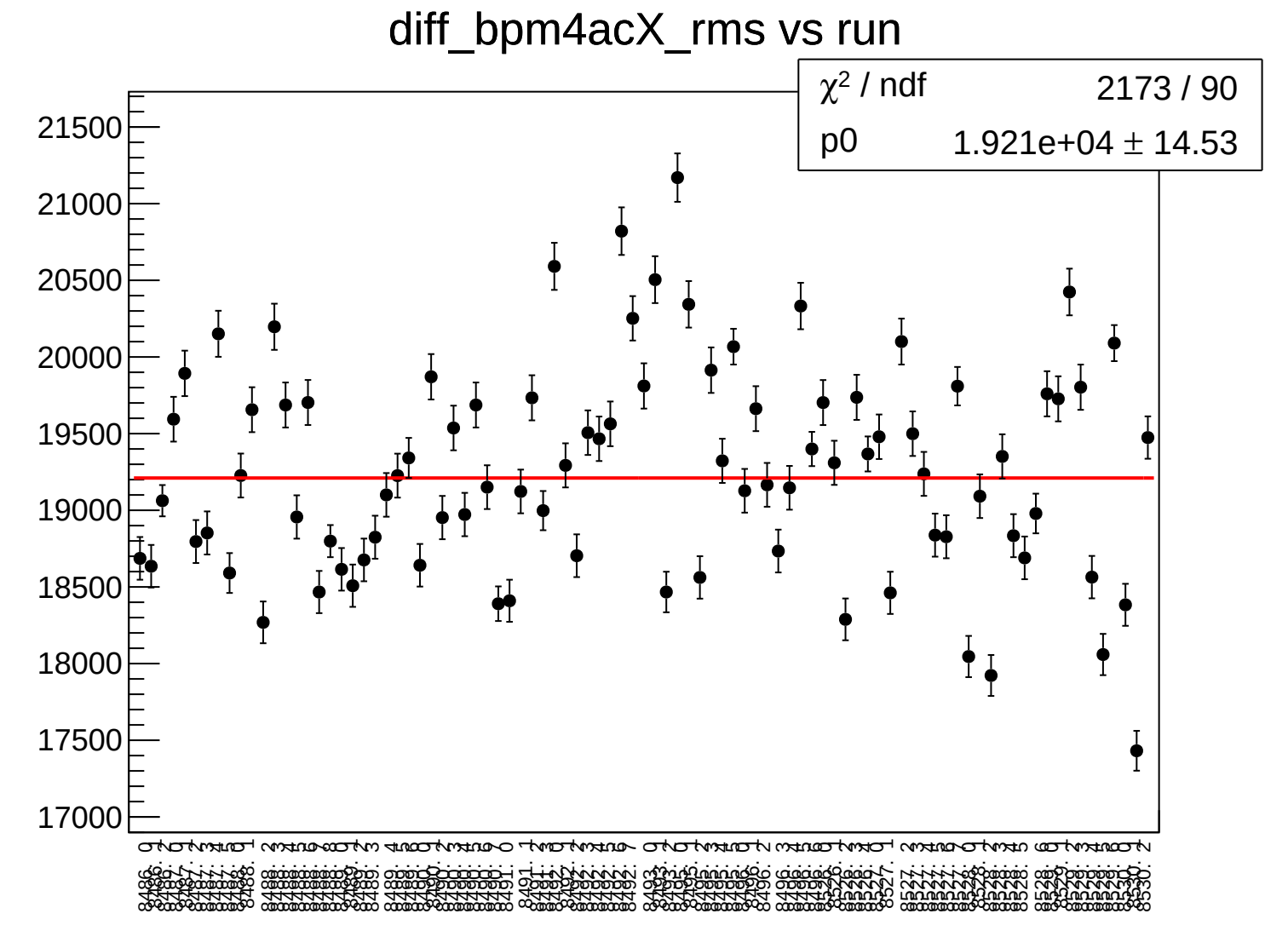

diff_bpm4eY_mean vs run
χ² / ndf 86.33 / 90
p0 28.22 ± 7.004
300
200
100
0
−100
−200
pull
Entries 91
Mean −103.1
Std Dev 0
2
1
0
−1
−2

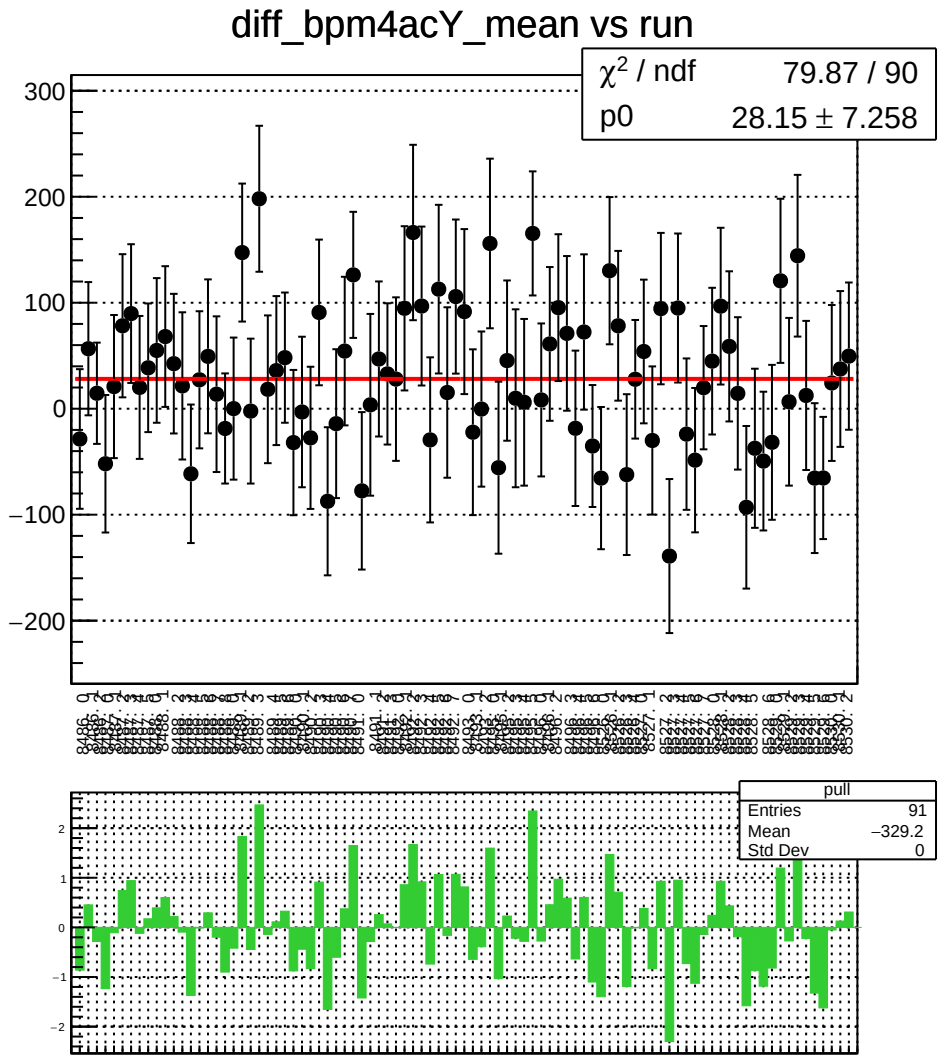

pull1D
Entries 91
Mean 0.01539
Std Dev 0.9739
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

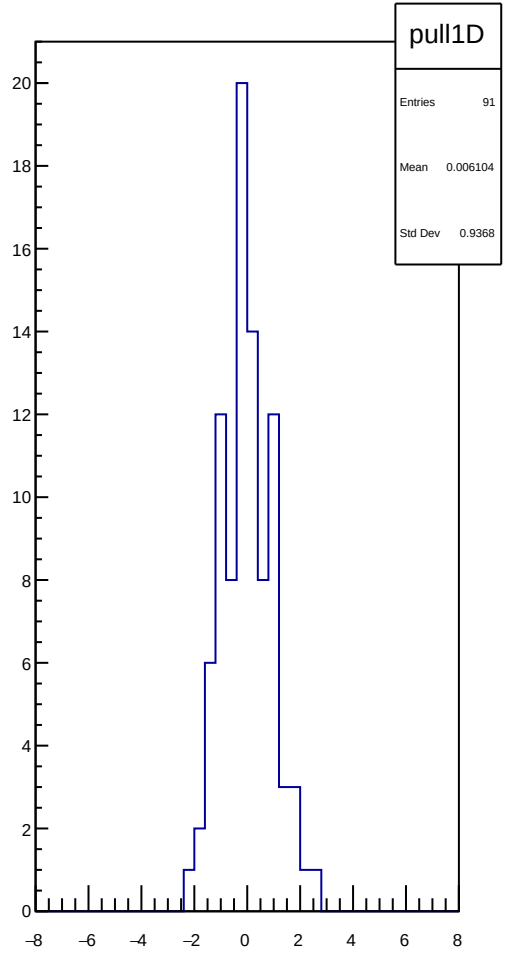

diff_bpm4eY_rms vs run
χ^2 / ndf 8539 / 90
p0 6534 ± 4.952
8000
7500
7000
6500
6000

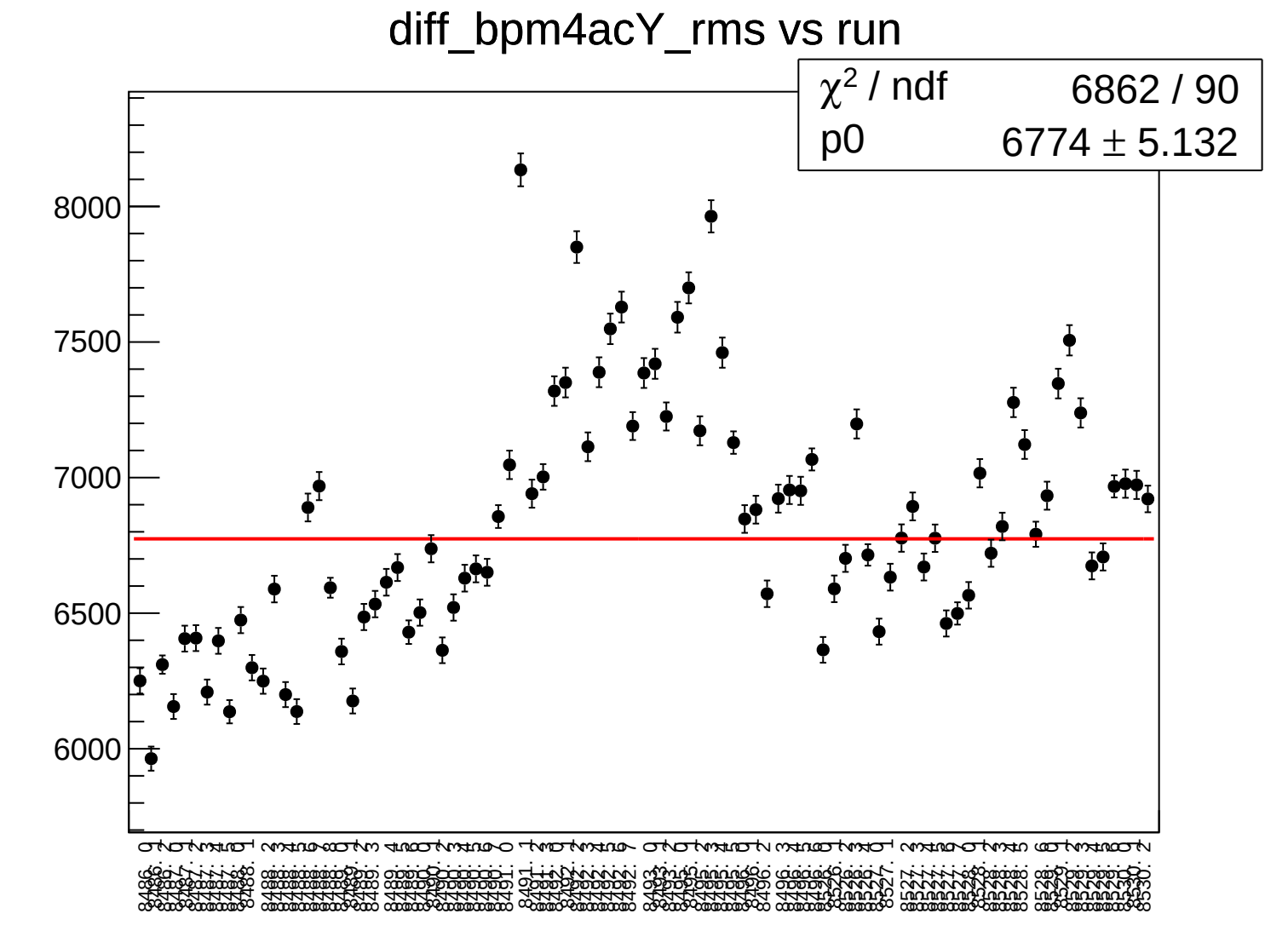

diff_bpm4acX_mean vs run
χ² / ndf 80.16 / 90
p0 −26.05 ± 20.55
800
600
400
200
0
−200
−400
−600
pull
Entries 91
Mean 100.4
Std Dev 0
2
1
0
−1
−2

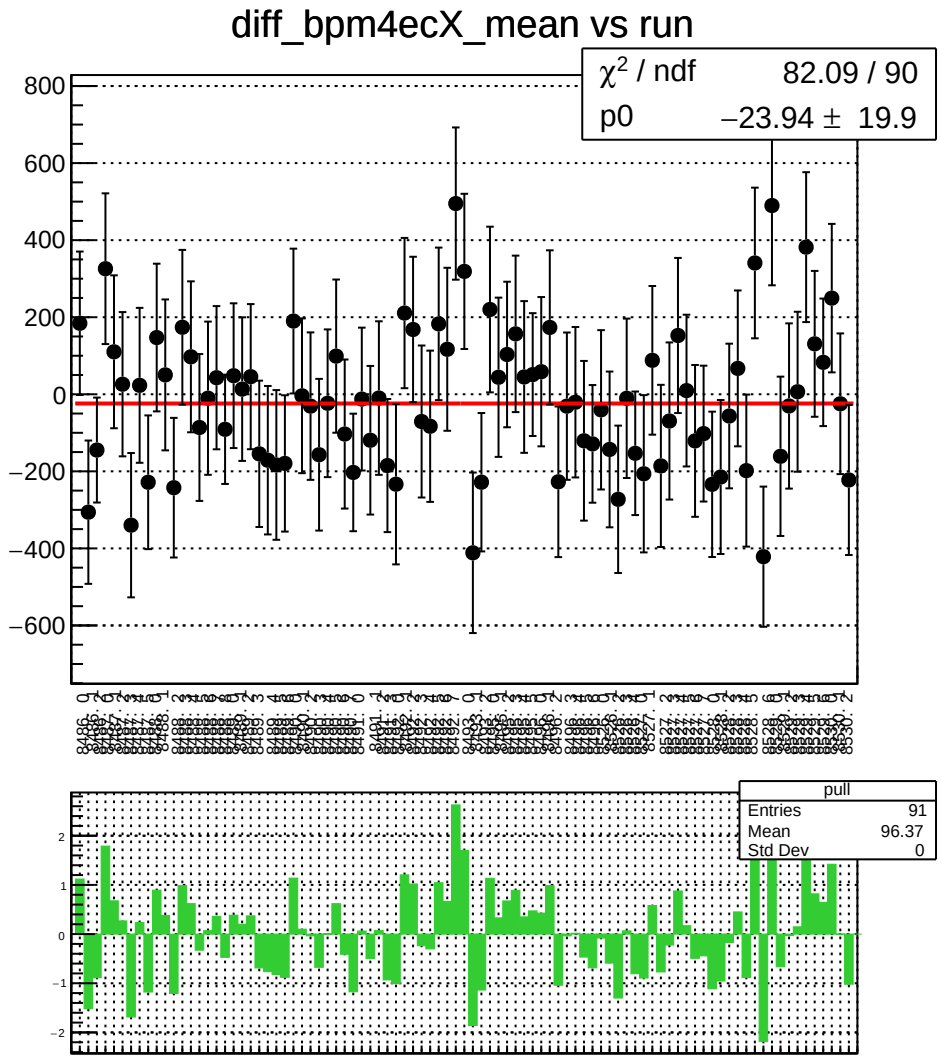

pull1D
Entries 91
Mean 0.02071
Std Dev 0.9383
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

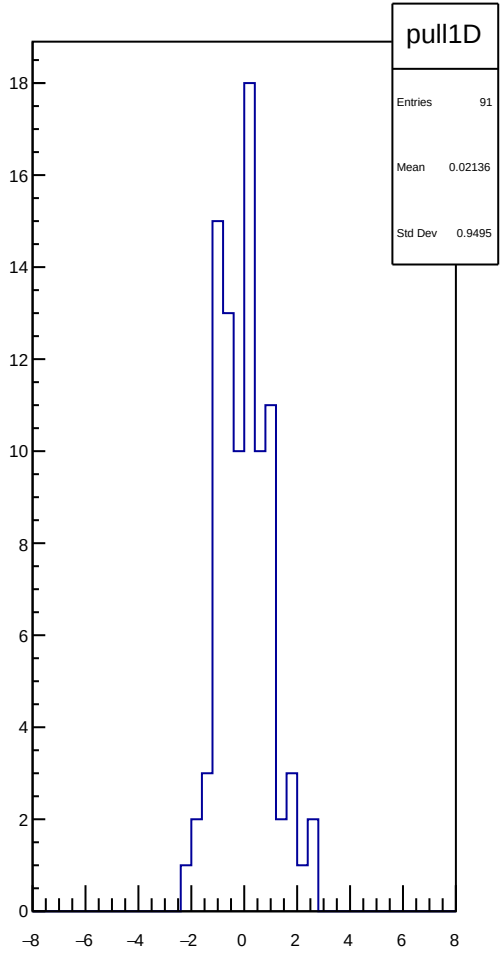

diff_bpm4acX_rms vs run
χ² / ndf 2173 / 90
p0 1.921e+04 ± 14.53
21500
21000
20500
20000
19500
19000
18500
18000
17500
17000

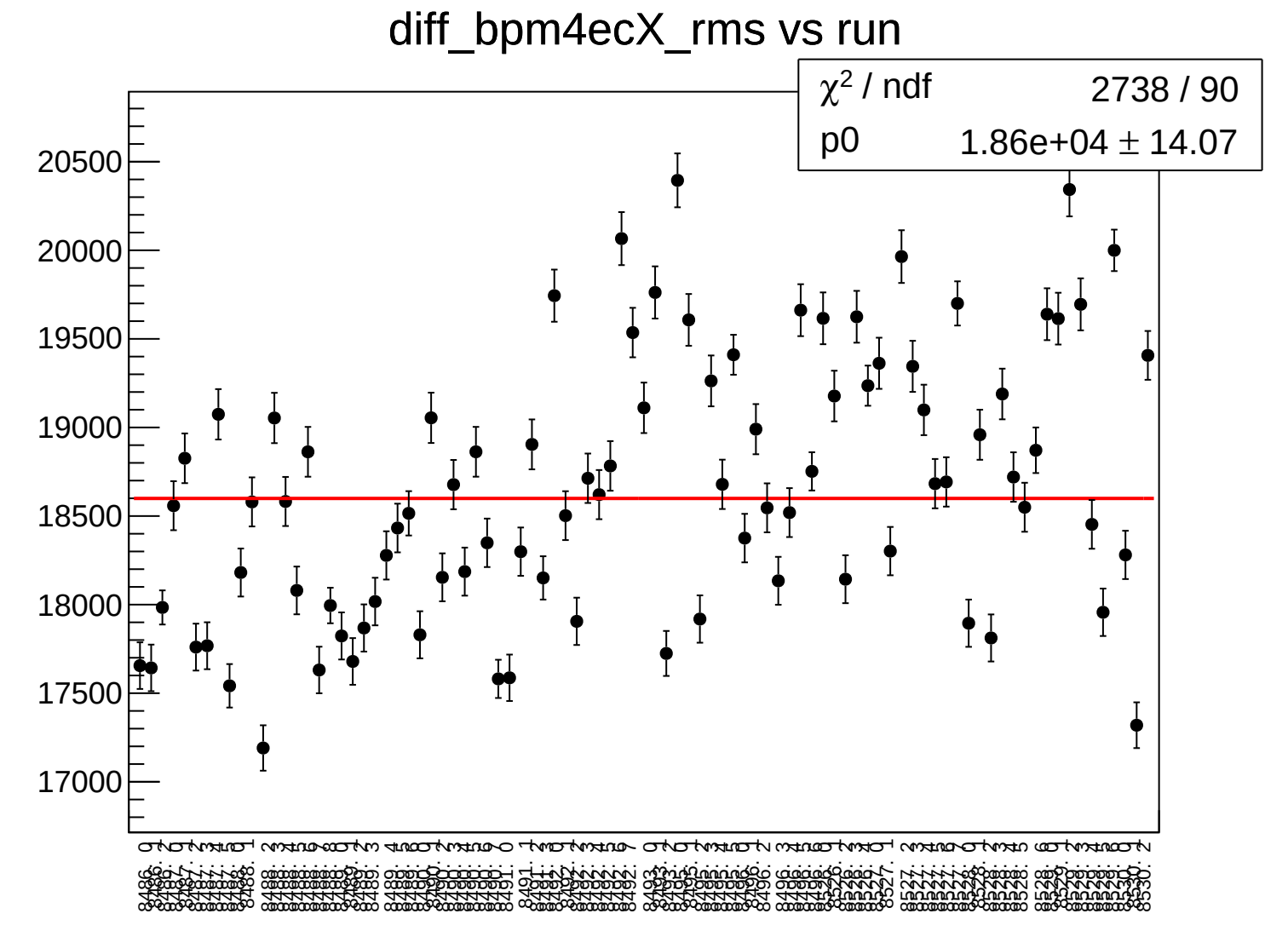

diff_bpm4acY_mean vs run
χ² / ndf 79.87 / 90
p0 28.15 ± 7.258
300
200
100
0
−100
−200
pull
Entries 91
Mean −329.2
Std Dev 0
2
1
0
−1
−2

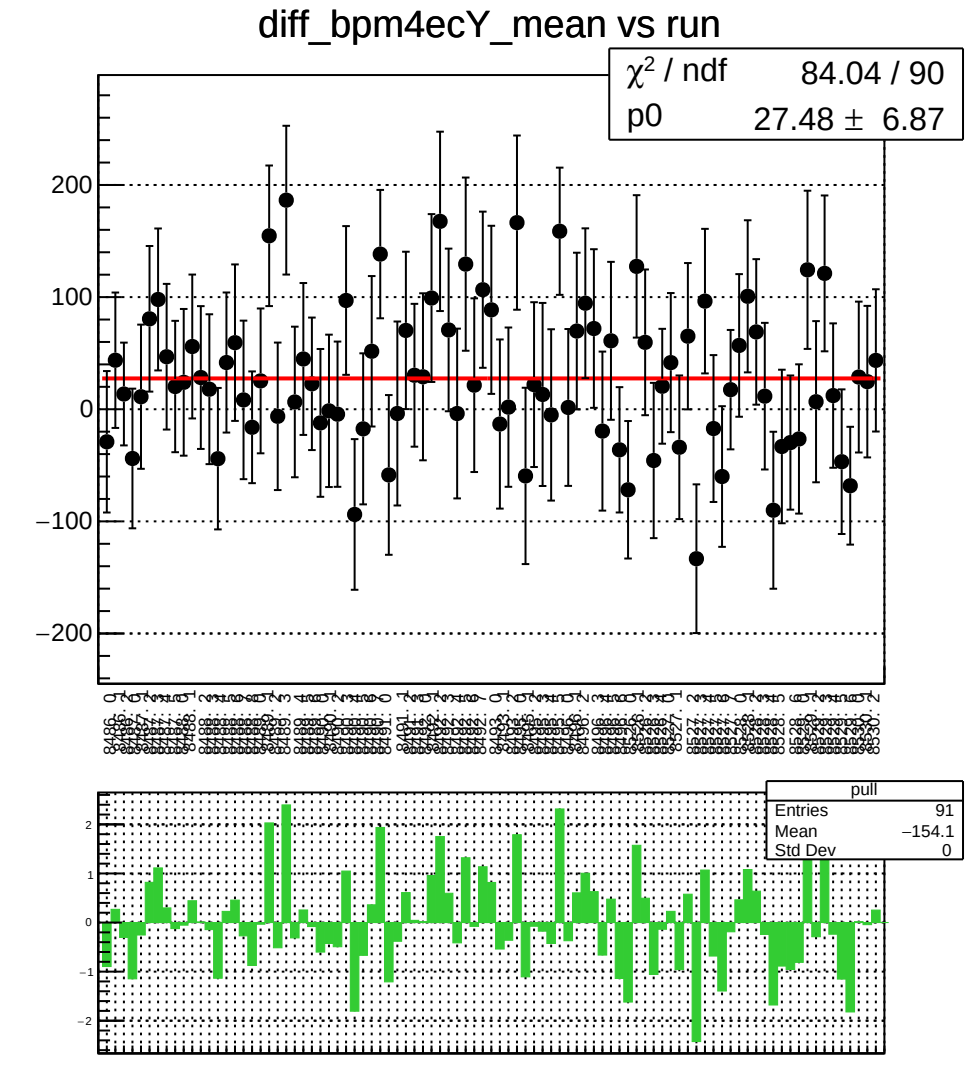

pull1D
Entries 91
Mean 0.006104
Std Dev 0.9368
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

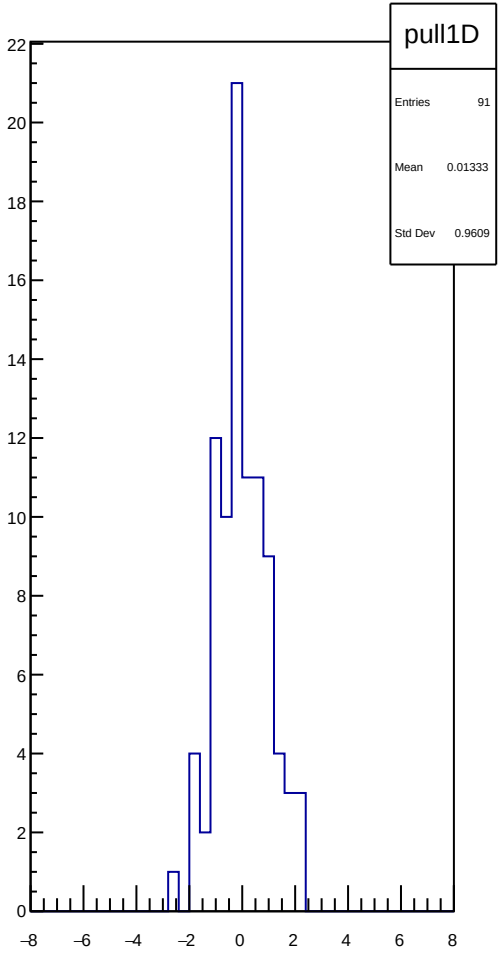

diff_bpm4acY_rms vs run
χ² / ndf 6862 / 90
p0 6774 ± 5.132
8000
7500
7000
6500
6000

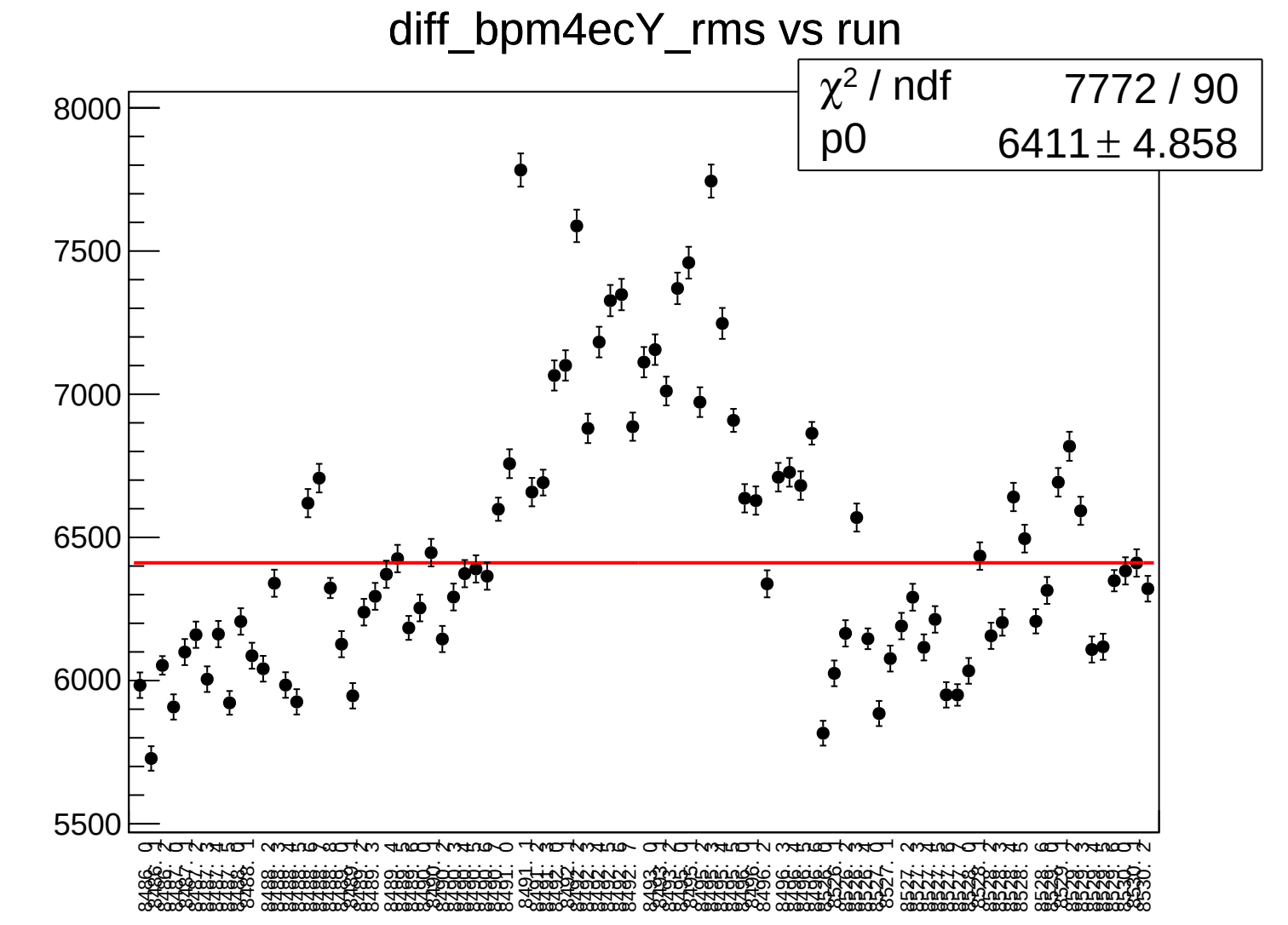

diff_bpm4ecX_mean vs run
χ² / ndf 82.09 / 90
p0 −23.94 ± 19.9
pull
Entries 91
Mean 96.37
Std Dev 0

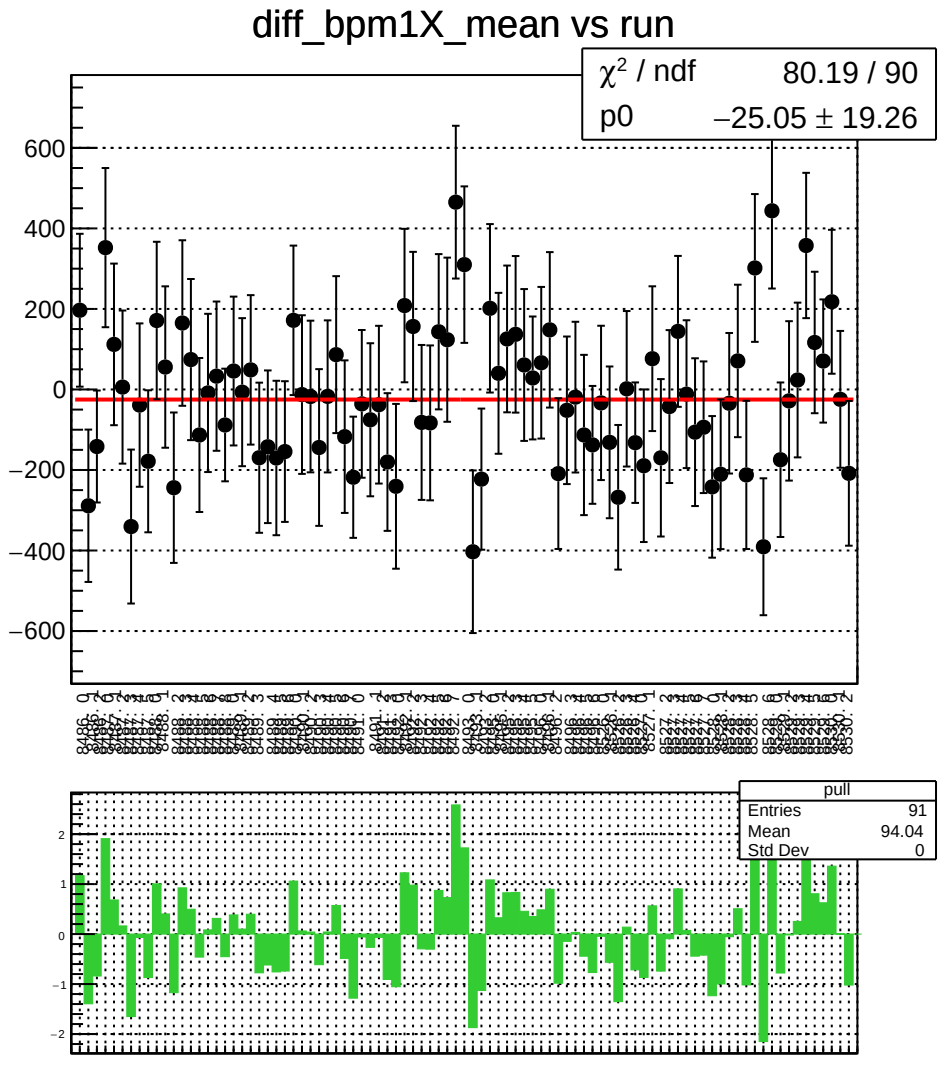

pull1D
Entries 91
Mean 0.02136
Std Dev 0.9495

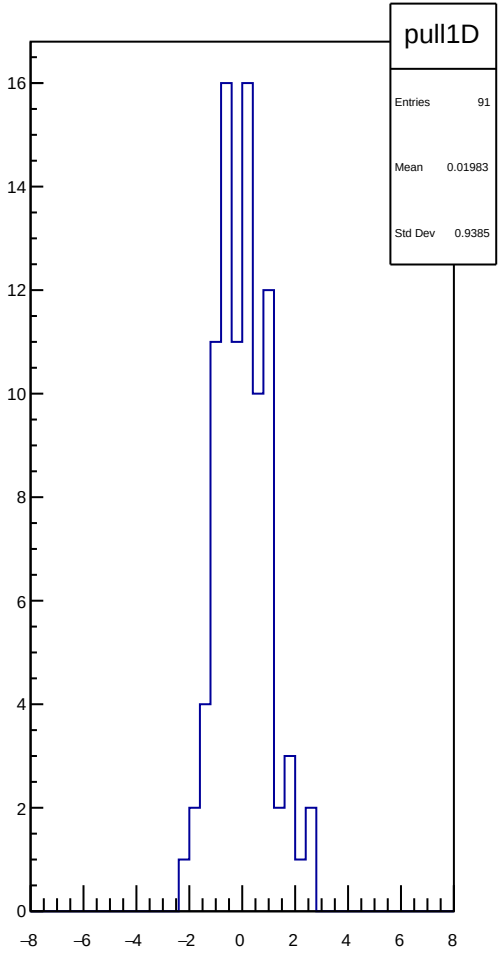

diff_bpm4ecX_rms vs run
χ² / ndf 2738 / 90
p0 1.86e+04 ± 14.07
20500
20000
19500
19000
18500
18000
17500
17000

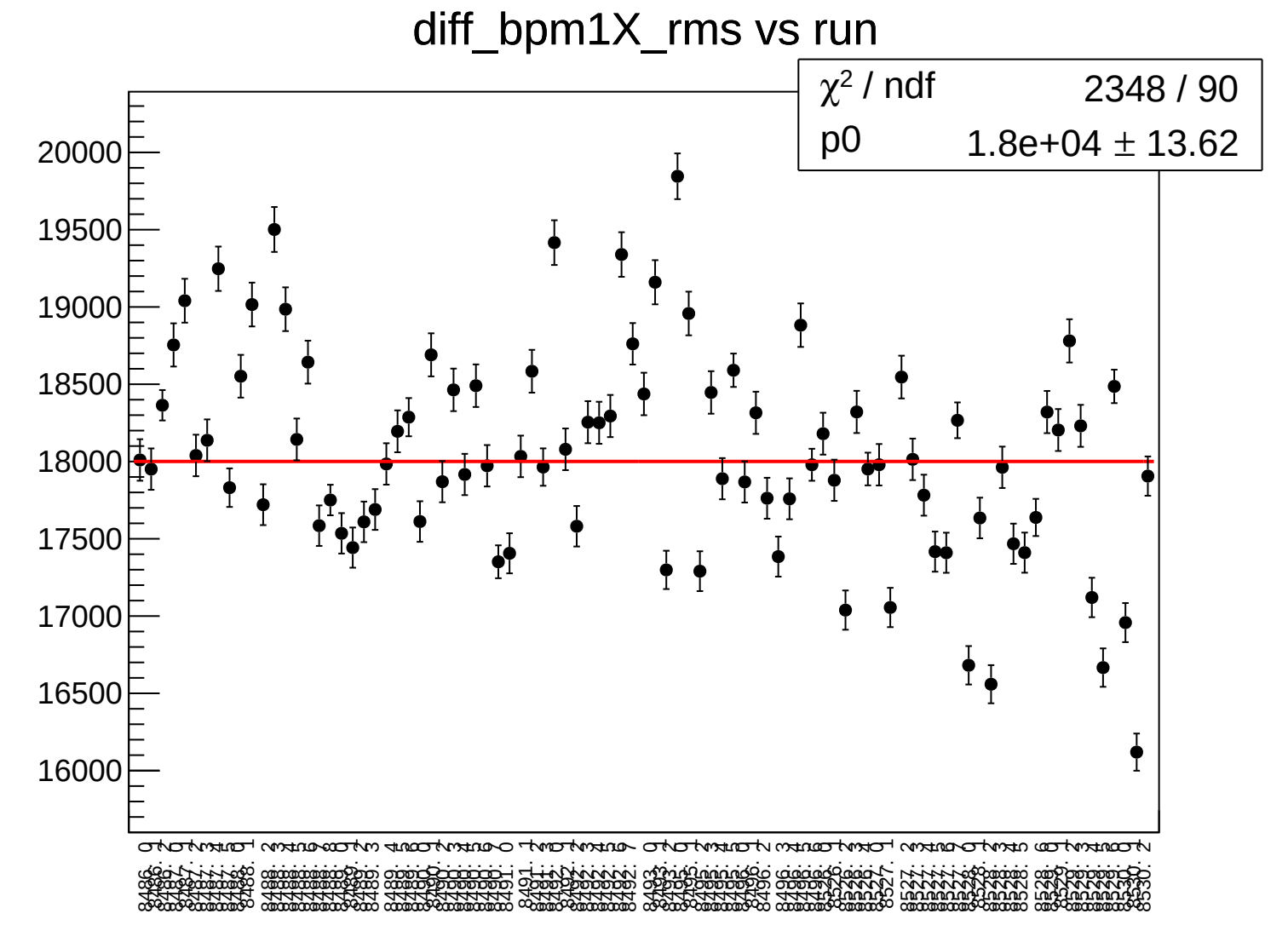

diff_bpm4ecY_mean vs run
χ² / ndf 84.04 / 90
p0 27.48 ± 6.87
200
100
0
−100
−200
pull
Entries 91
Mean −154.1
Std Dev 0
2
1
0
−1
−2

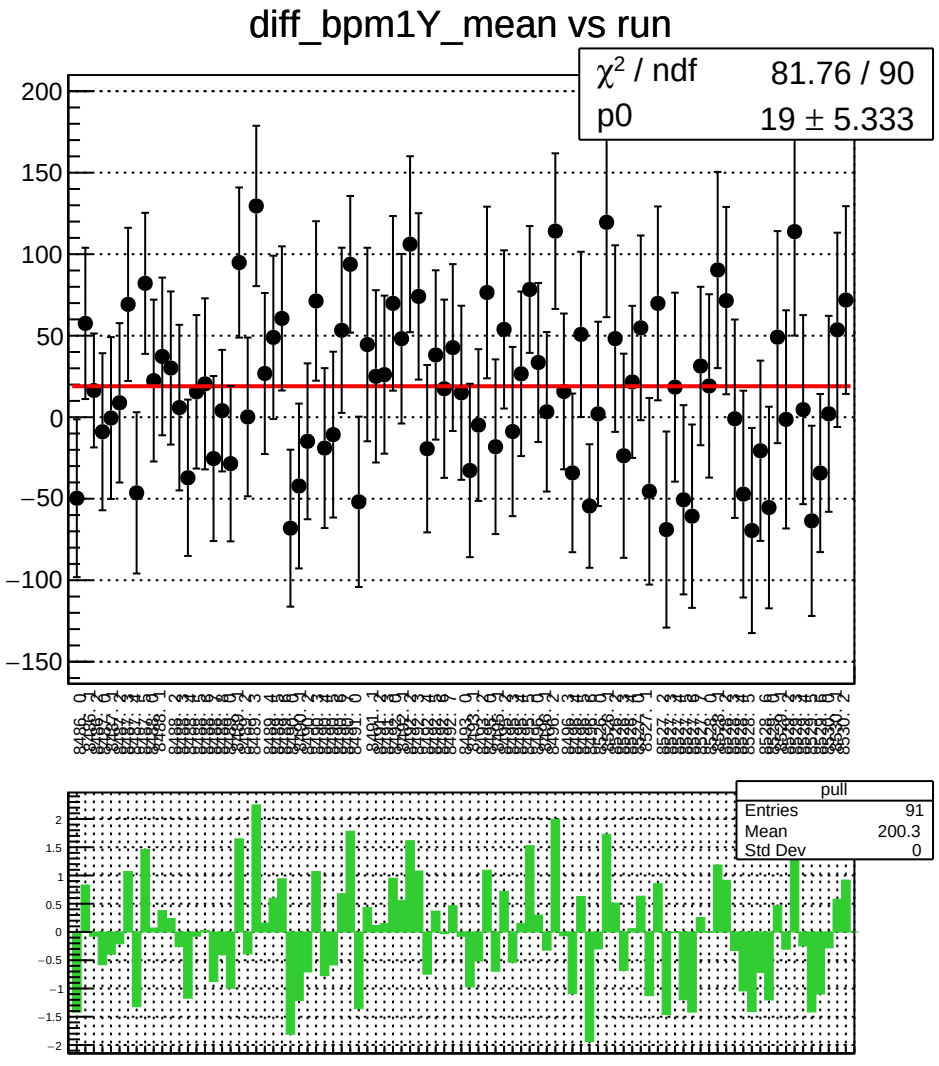

pull1D
Entries 91
Mean 0.01333
Std Dev 0.9609
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

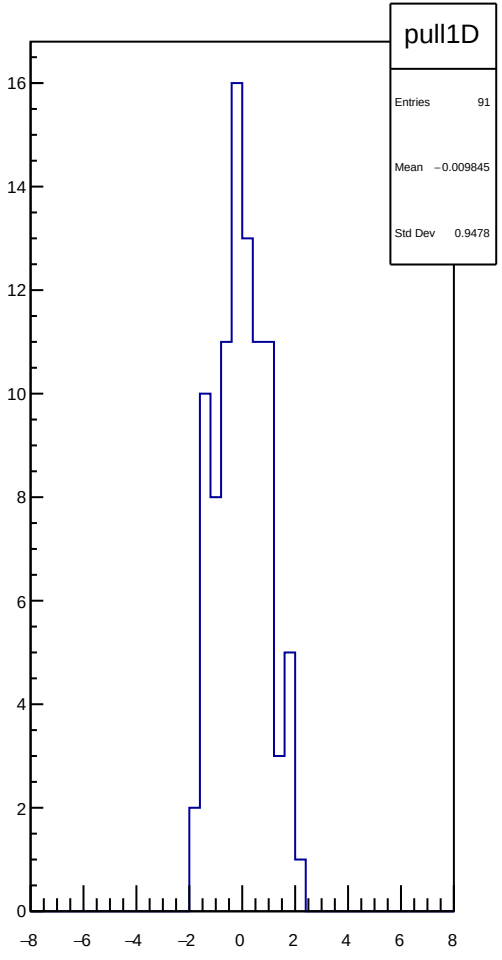

diff_bpm4ecY_rms vs run
χ² / ndf 7772 / 90
p0 6411 ± 4.858
8000
7500
7000
6500
6000
5500

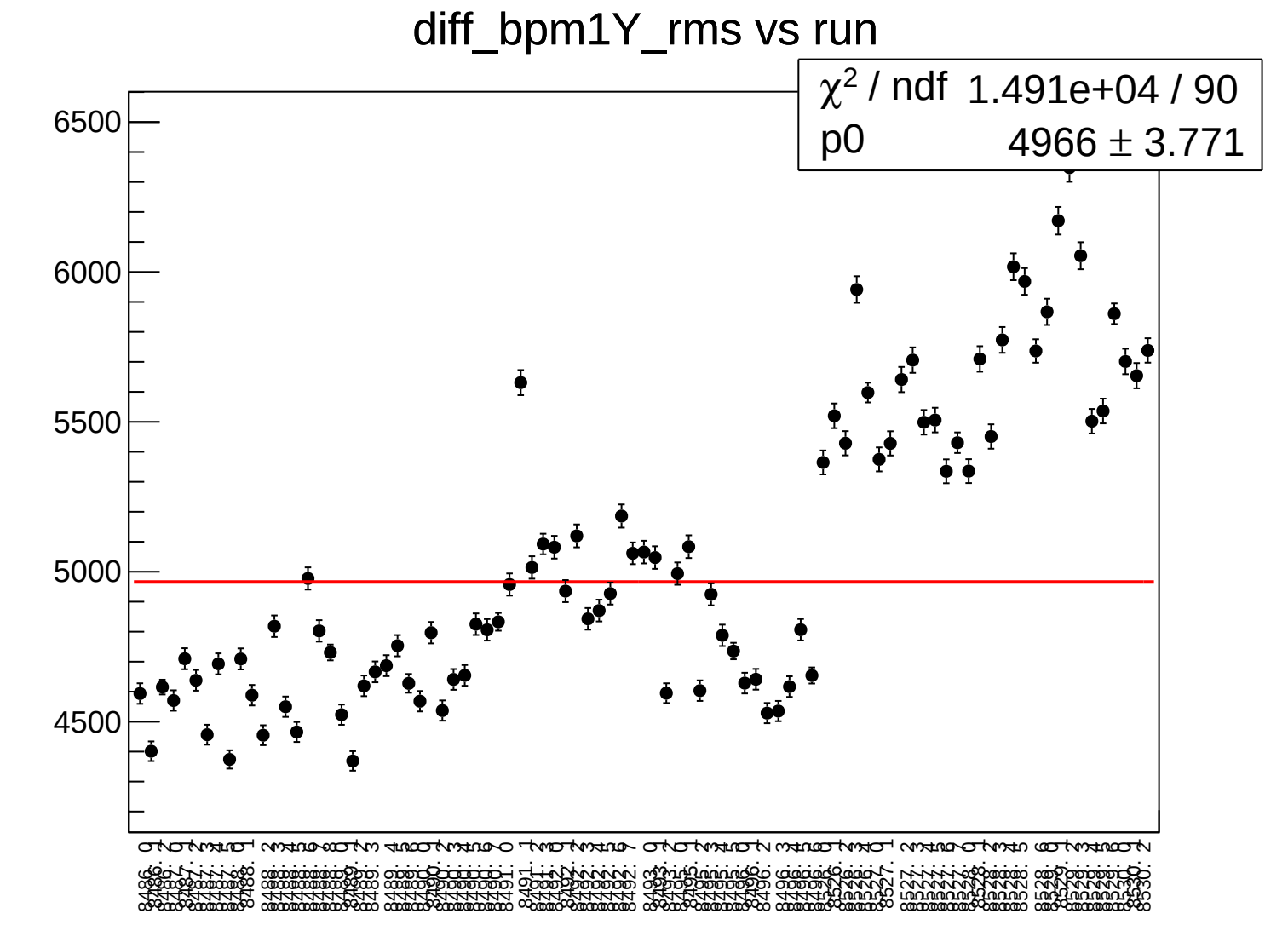

diff_bpm1X_mean vs run
χ² / ndf 80.19 / 90
p0 −25.05 ± 19.26
pull
Entries 91
Mean 94.04
Std Dev 0

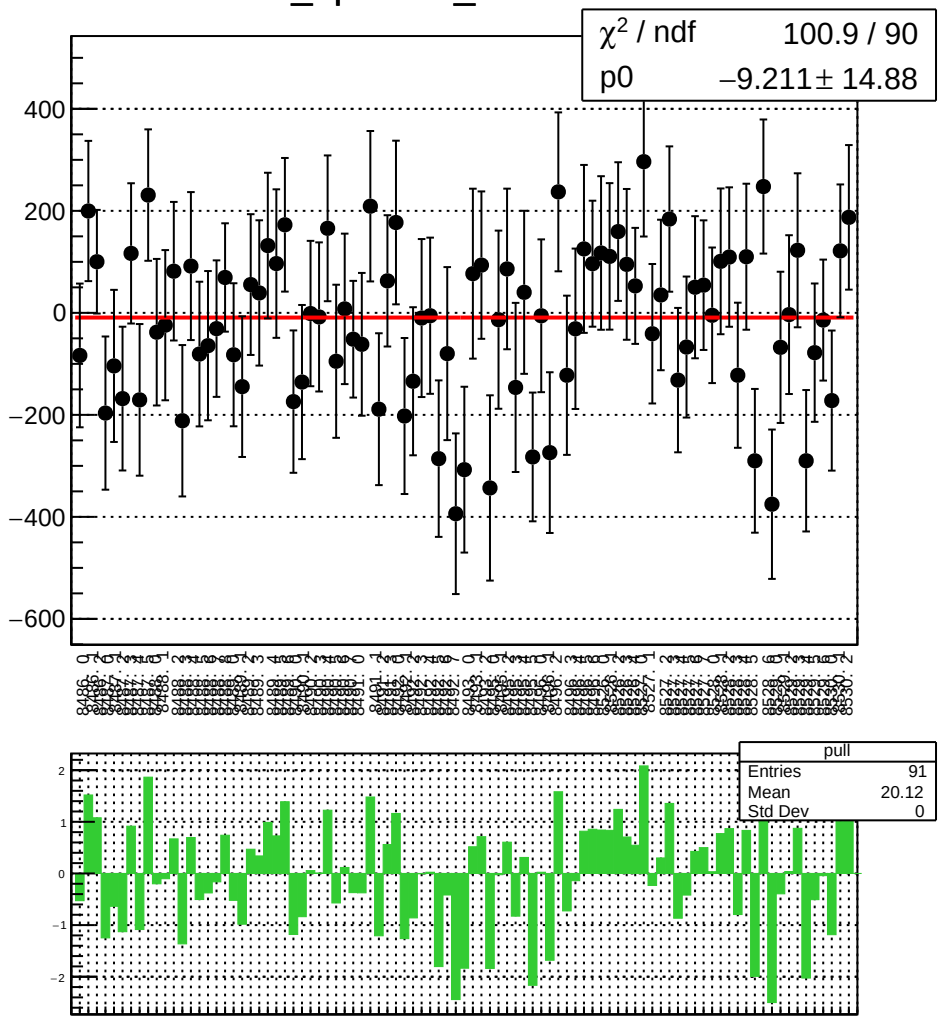

pull1D
Entries 91
Mean 0.01983
Std Dev 0.9385

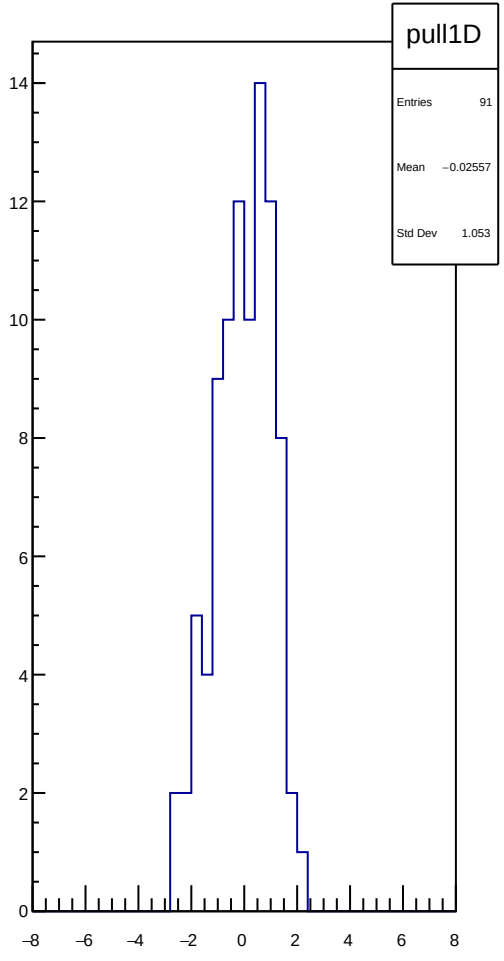

diff_bpm1X_rms vs run
χ² / ndf 2348 / 90
p0 1.8e+04 ± 13.62
20000
19500
19000
18500
18000
17500
17000
16500
16000

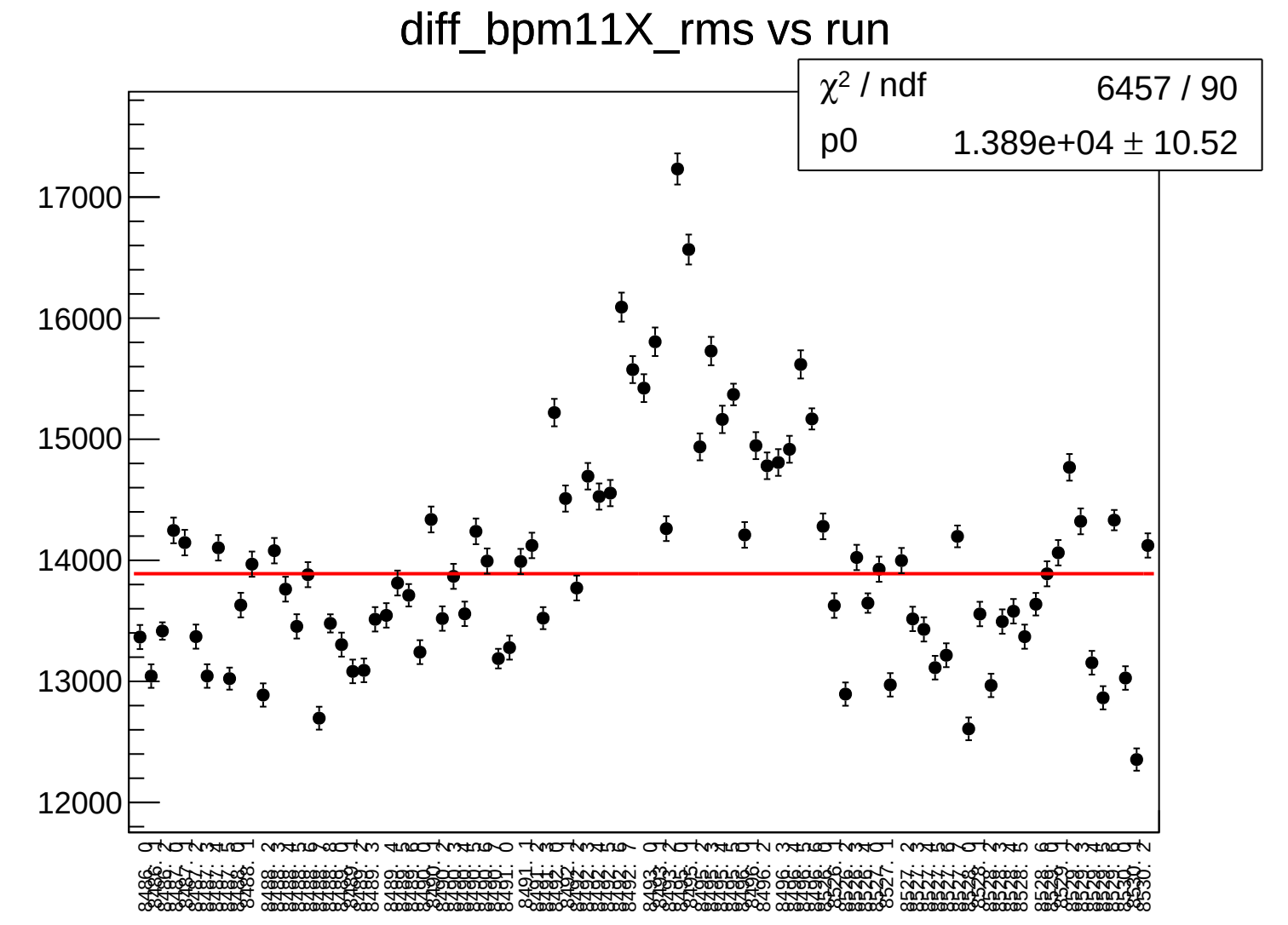

diff_bpm1Y_mean vs run
χ² / ndf 81.76 / 90
p0 19 ± 5.333
pull
Entries 91
Mean 200.3
Std Dev 0

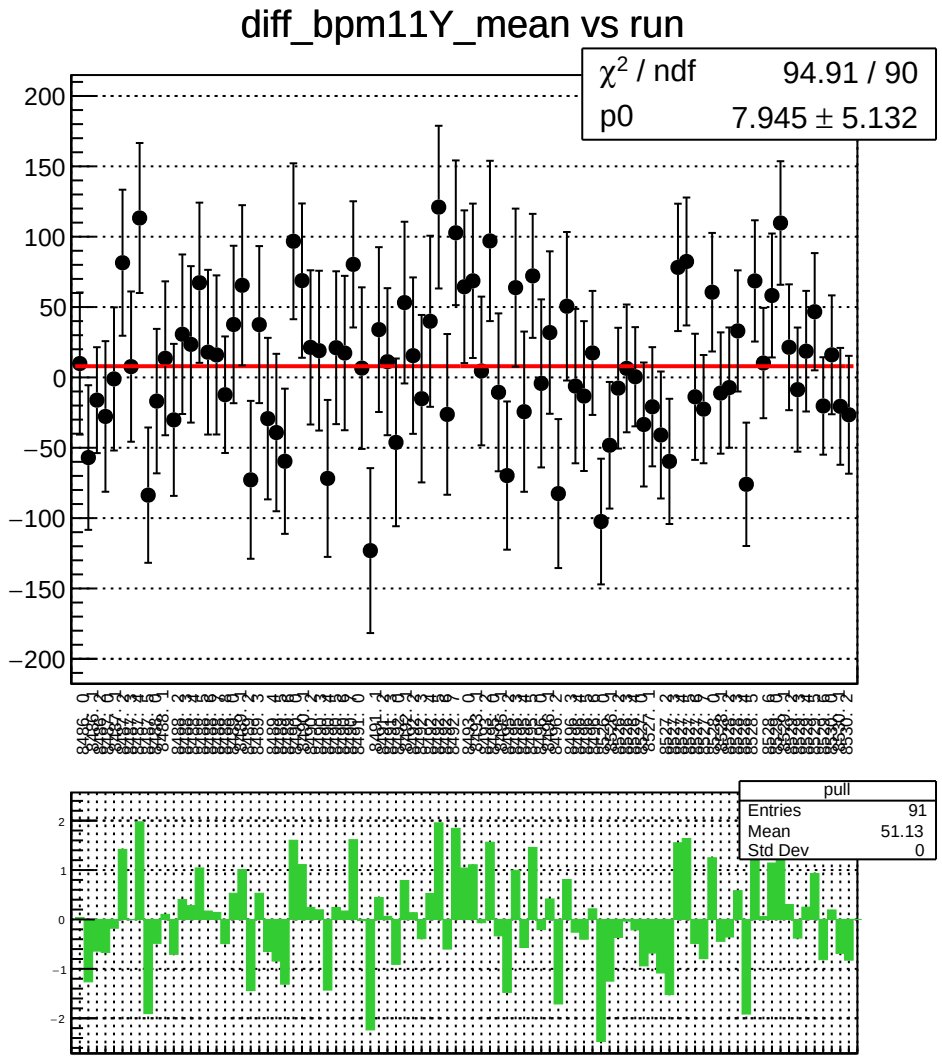

pull1D
Entries 91
Mean −0.009845
Std Dev 0.9478

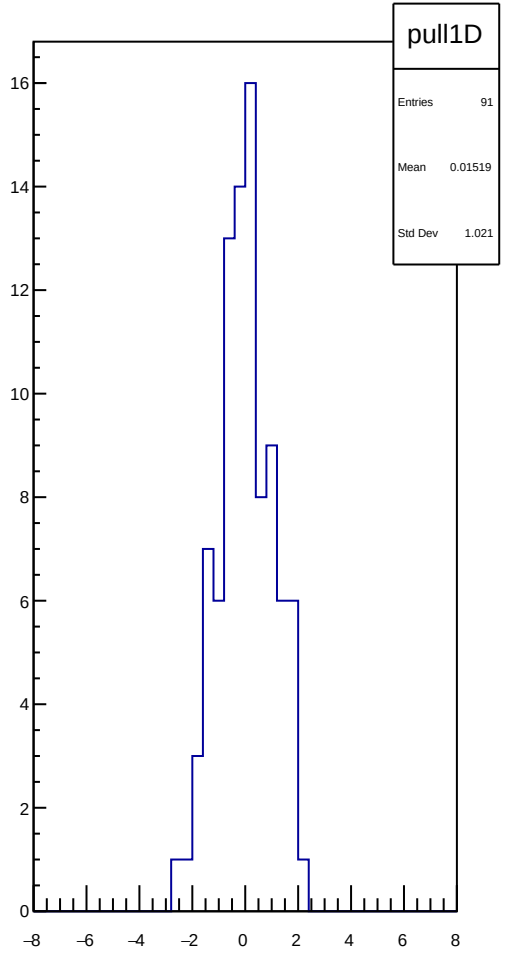

diff_bpm1Y_rms vs run
χ² / ndf 1.491e+04 / 90
p0 4966 ± 3.771
6500
6000
5500
5000
4500

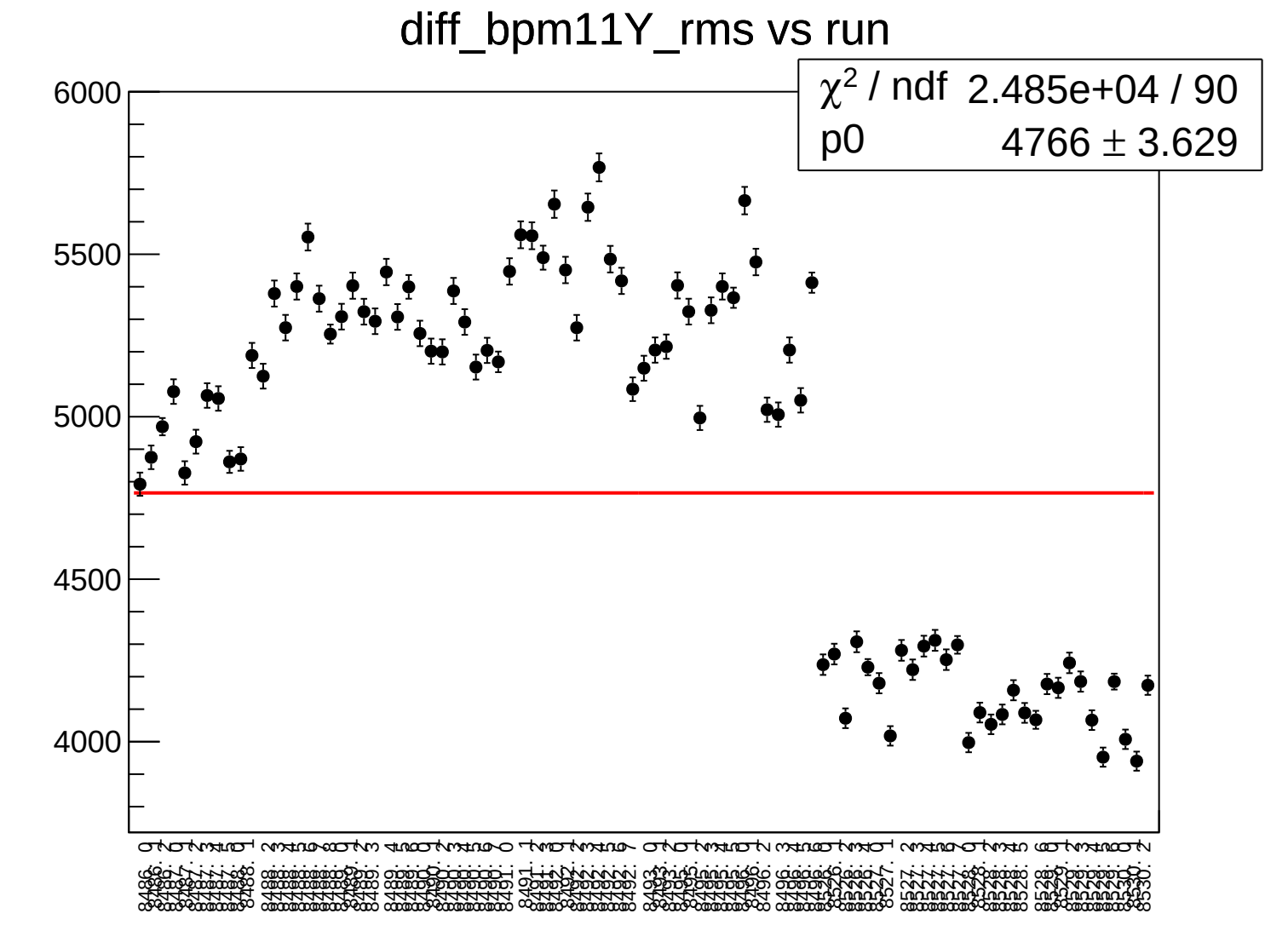

diff_bpm11X_mean vs run
χ² / ndf 100.9 / 90
p0 −9.211 ± 14.88
400
200
0
−200
−400
−600
pull
Entries 91
Mean 20.12
Std Dev 0
2
1
0
−1
−2

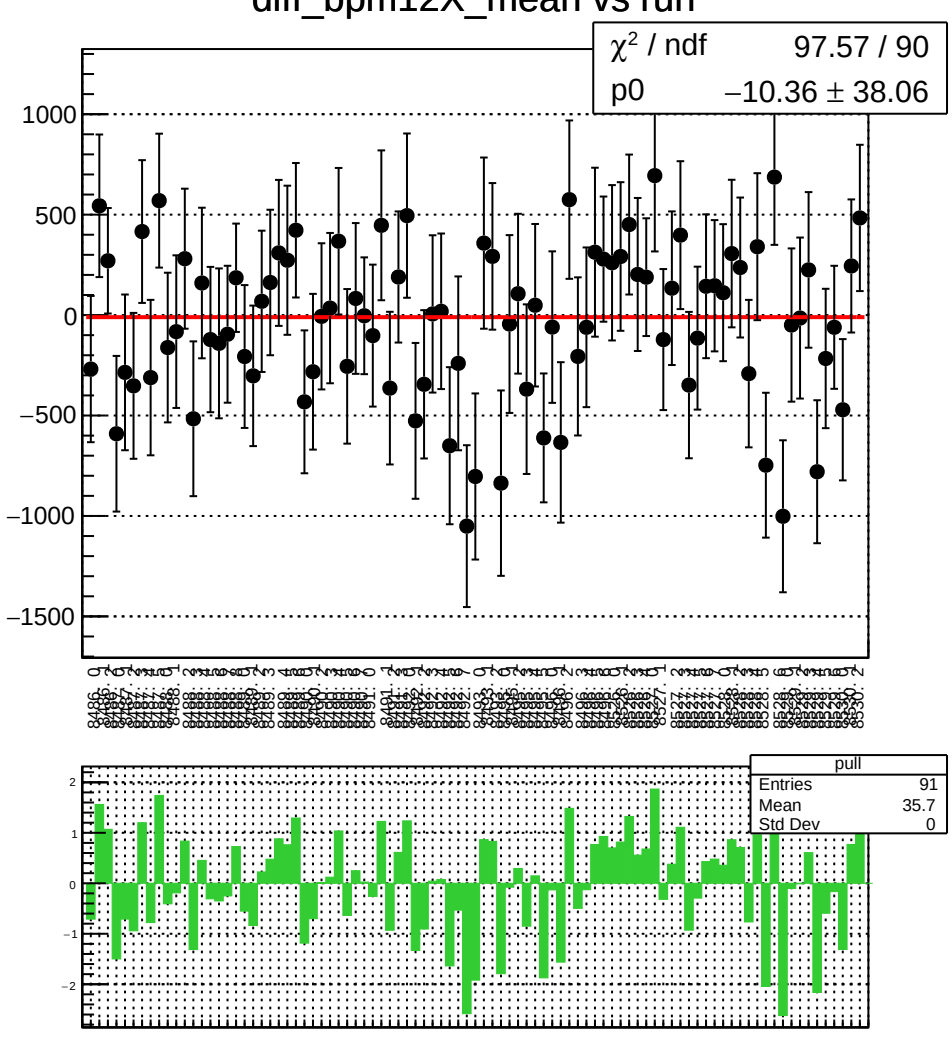

pull1D
Entries 91
Mean −0.02557
Std Dev 1.053
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

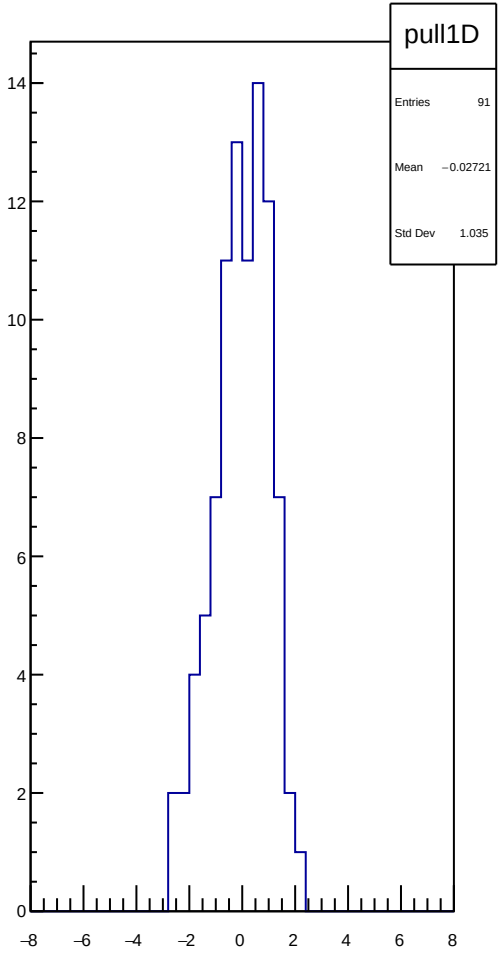

diff_bpm11X_rms vs run
χ² / ndf 6457 / 90
p0 1.389e+04 ± 10.52
17000
16000
15000
14000
13000
12000

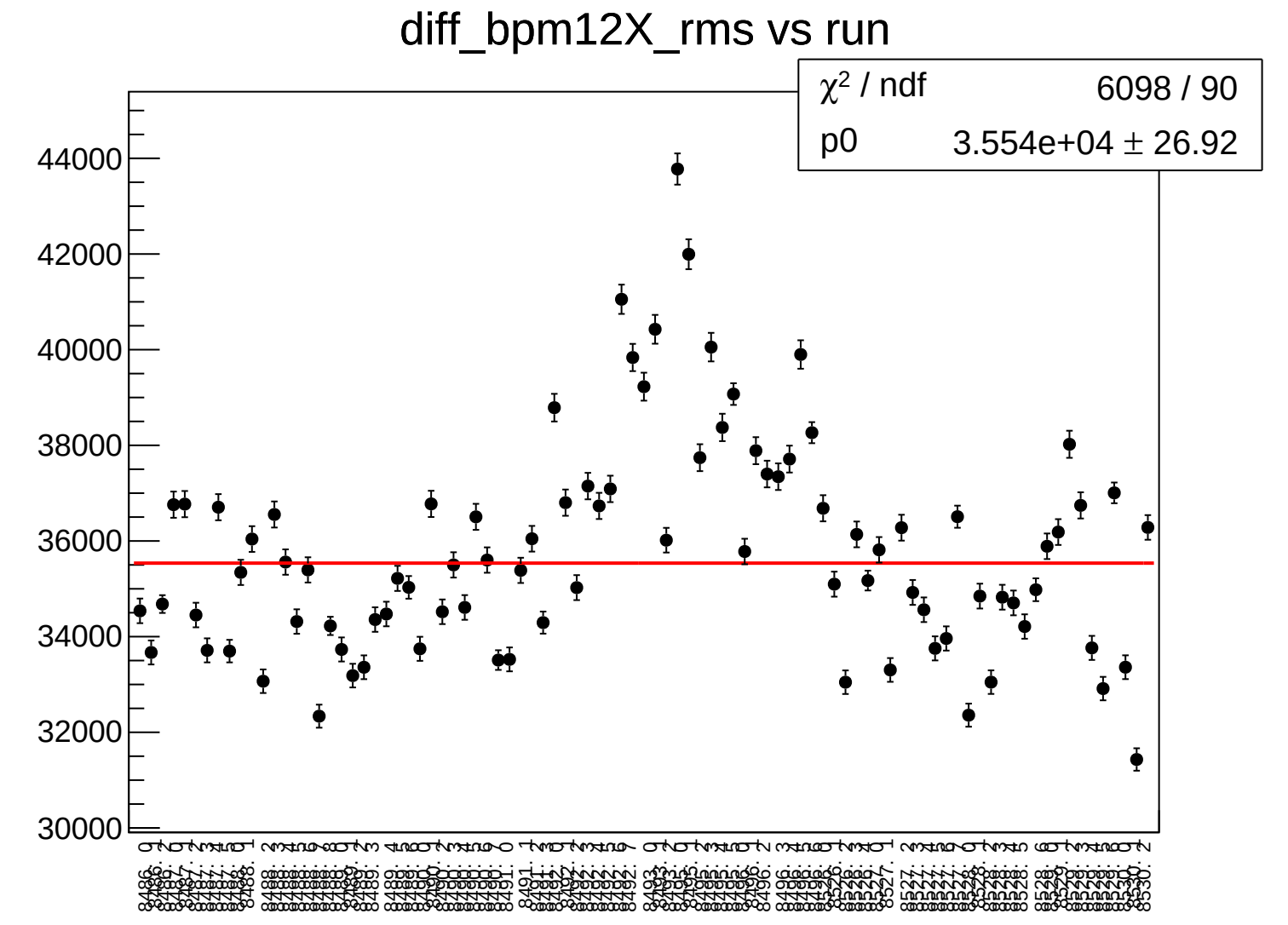

diff_bpm11Y_mean vs run
χ² / ndf 94.91 / 90
p0 7.945 ± 5.132
pull
Entries 91
Mean 51.13
Std Dev 0

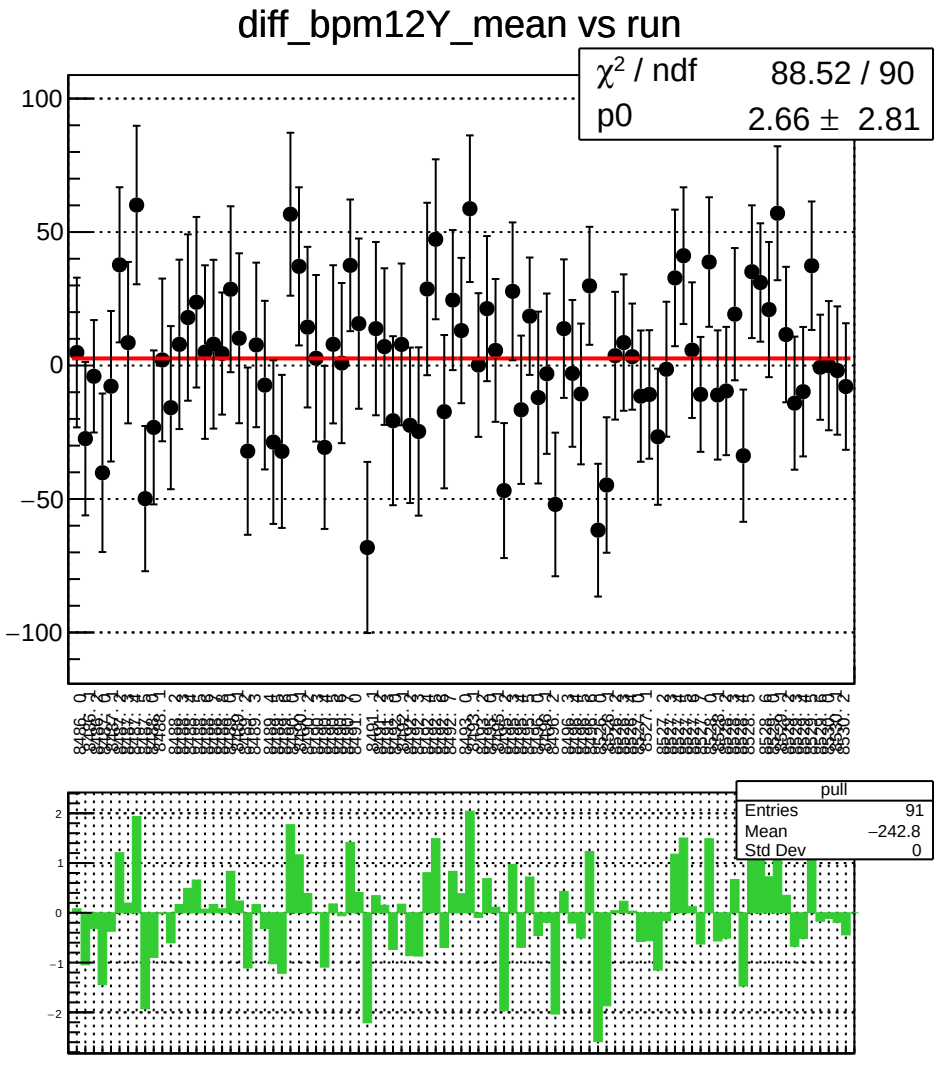

pull1D
Entries 91
Mean 0.01519
Std Dev 1.021

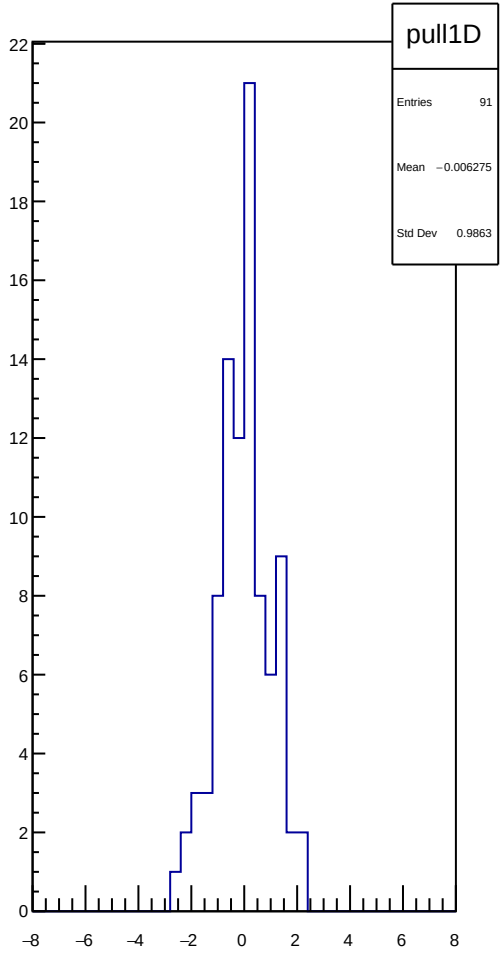

diff_bpm11Y_rms vs run
χ² / ndf 2.485e+04 / 90
p0 4766 ± 3.629
6000
5500
5000
4500
4000

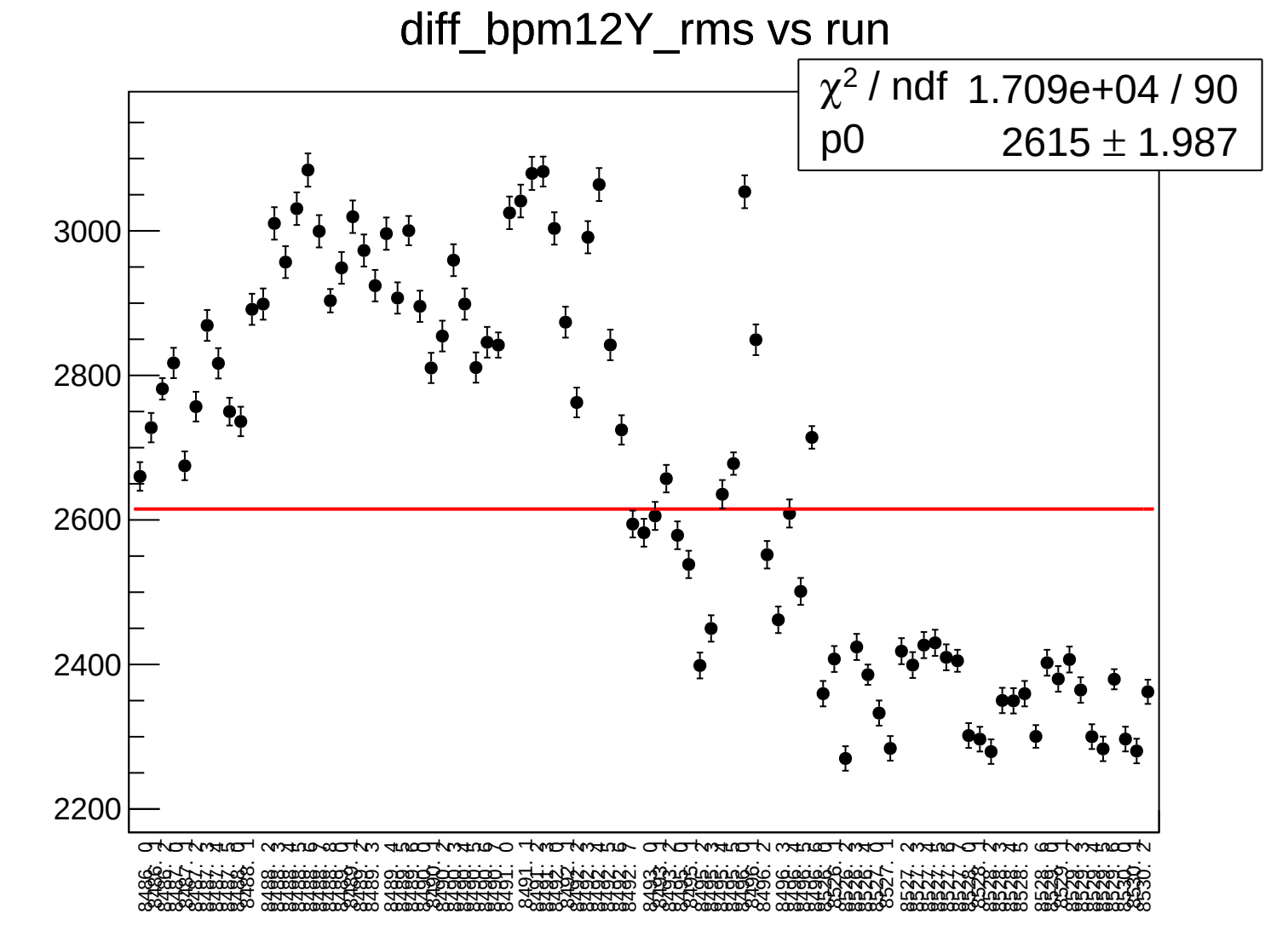

diff_bpm12X_mean vs run
χ² / ndf 97.57 / 90
p0 −10.36 ± 38.06
1000
500
0
−500
−1000
−1500
pull
Entries 91
Mean 35.7
Std Dev 0
2
1
0
−1
−2

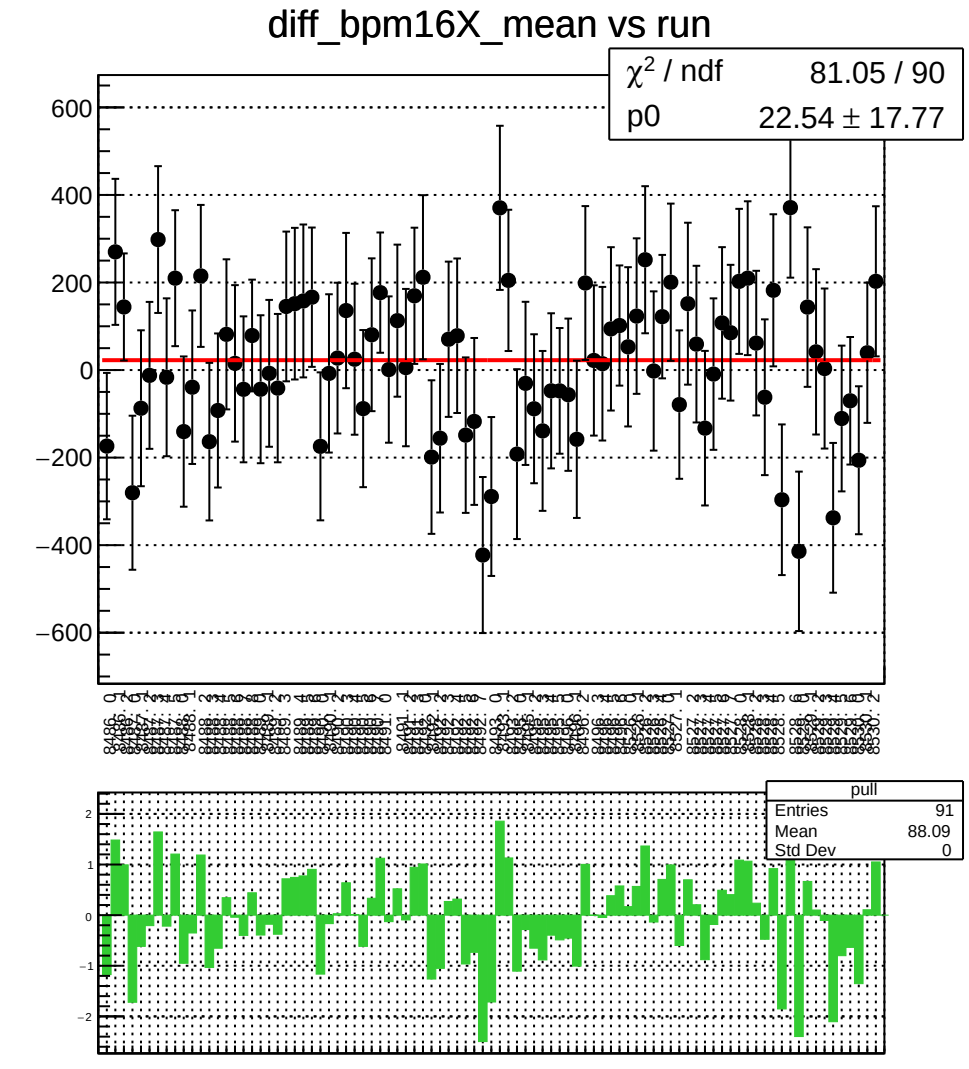

pull1D
Entries 91
Mean −0.02721
Std Dev 1.035
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

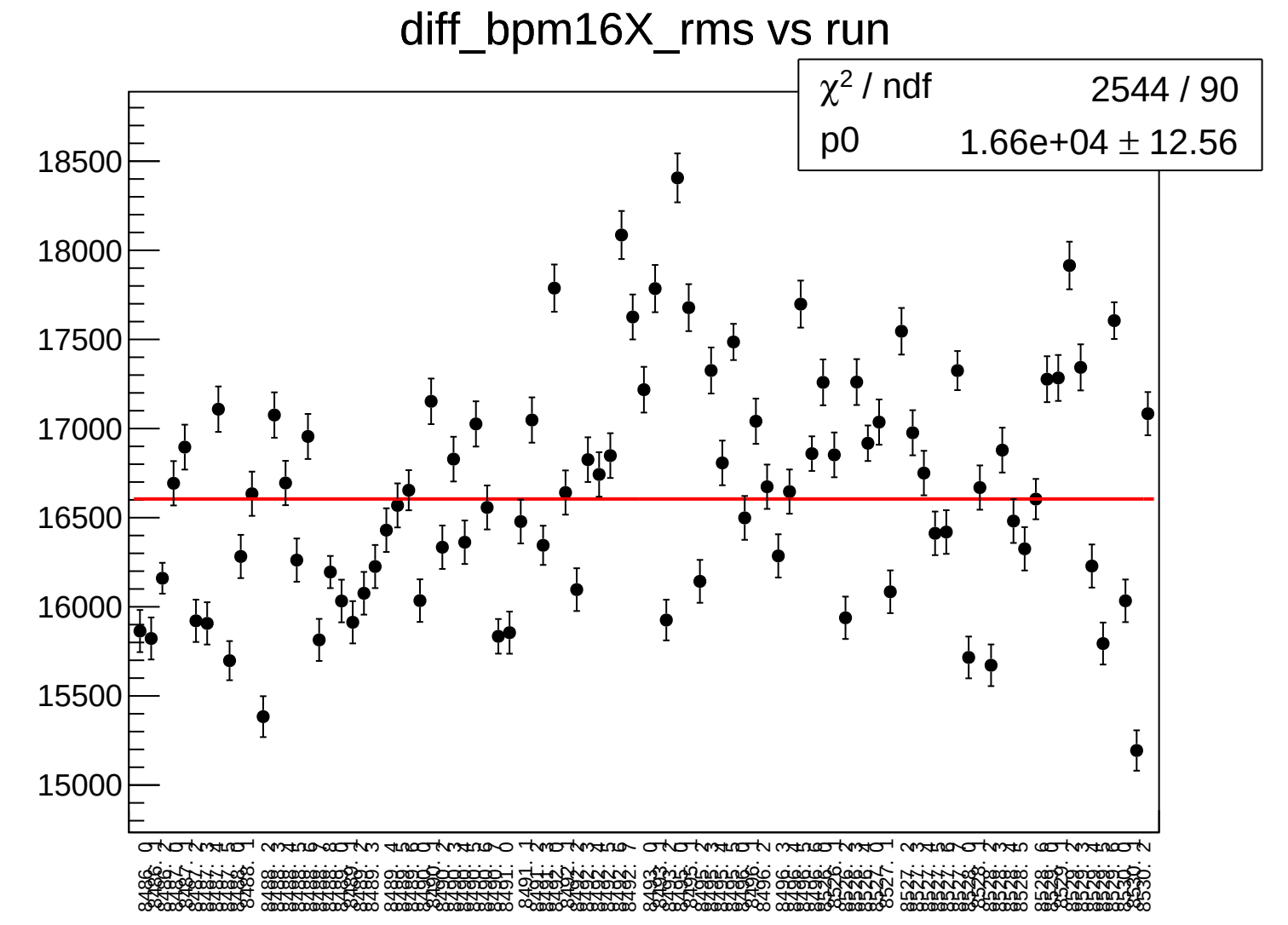

diff_bpm12X_rms vs run
χ² / ndf 6098 / 90
p0 3.554e+04 ± 26.92
44000
42000
40000
38000
36000
34000
32000
30000

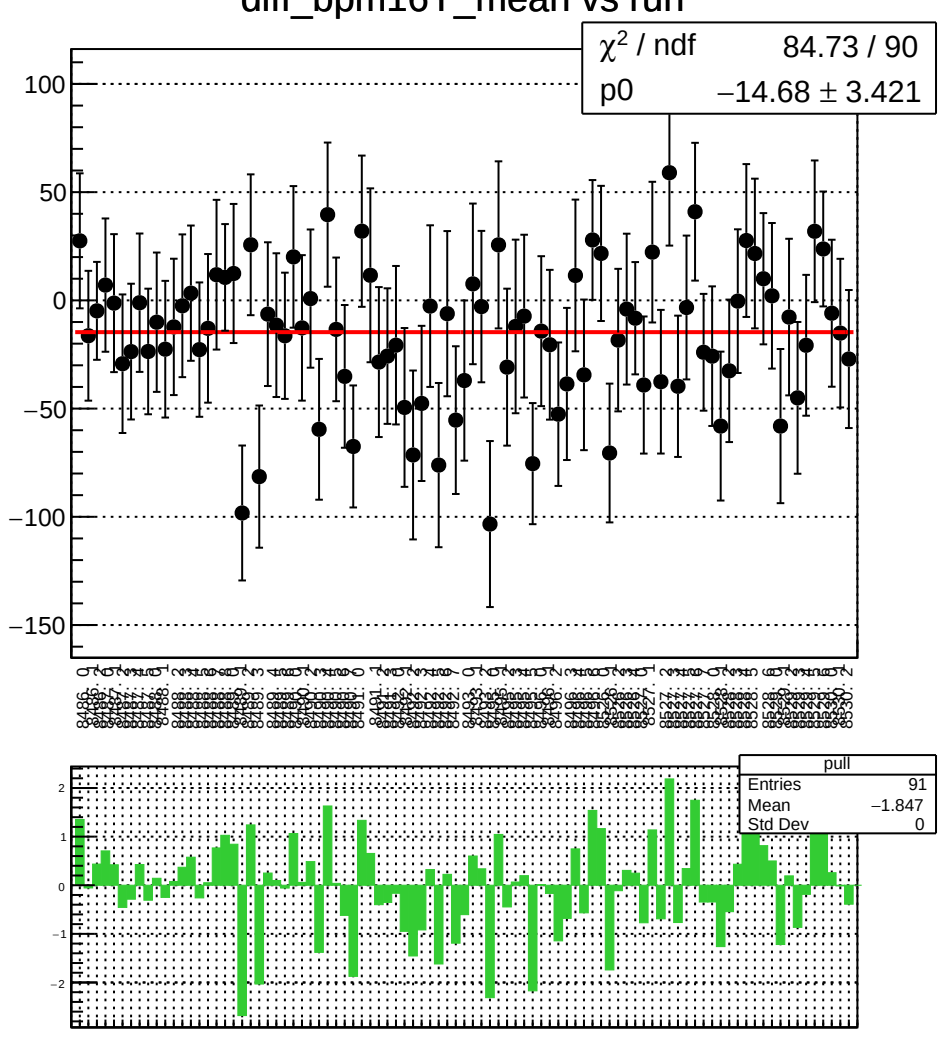

diff_bpm12Y_mean vs run
χ² / ndf 88.52 / 90
p0 2.66 ± 2.81
100
50
0
−50
−100
pull
Entries 91
Mean −242.8
Std Dev 0
2
1
0
−1
−2

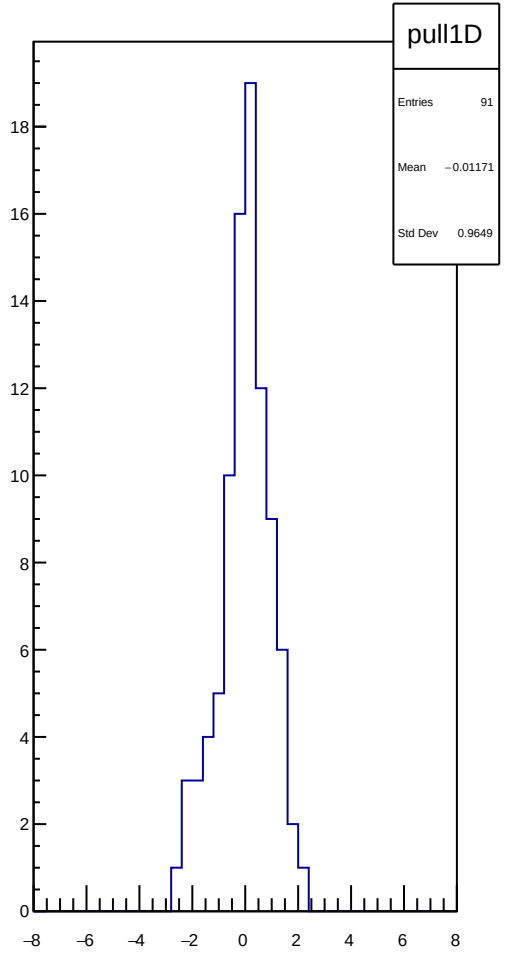

pull1D
Entries 91
Mean −0.006275
Std Dev 0.9863
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

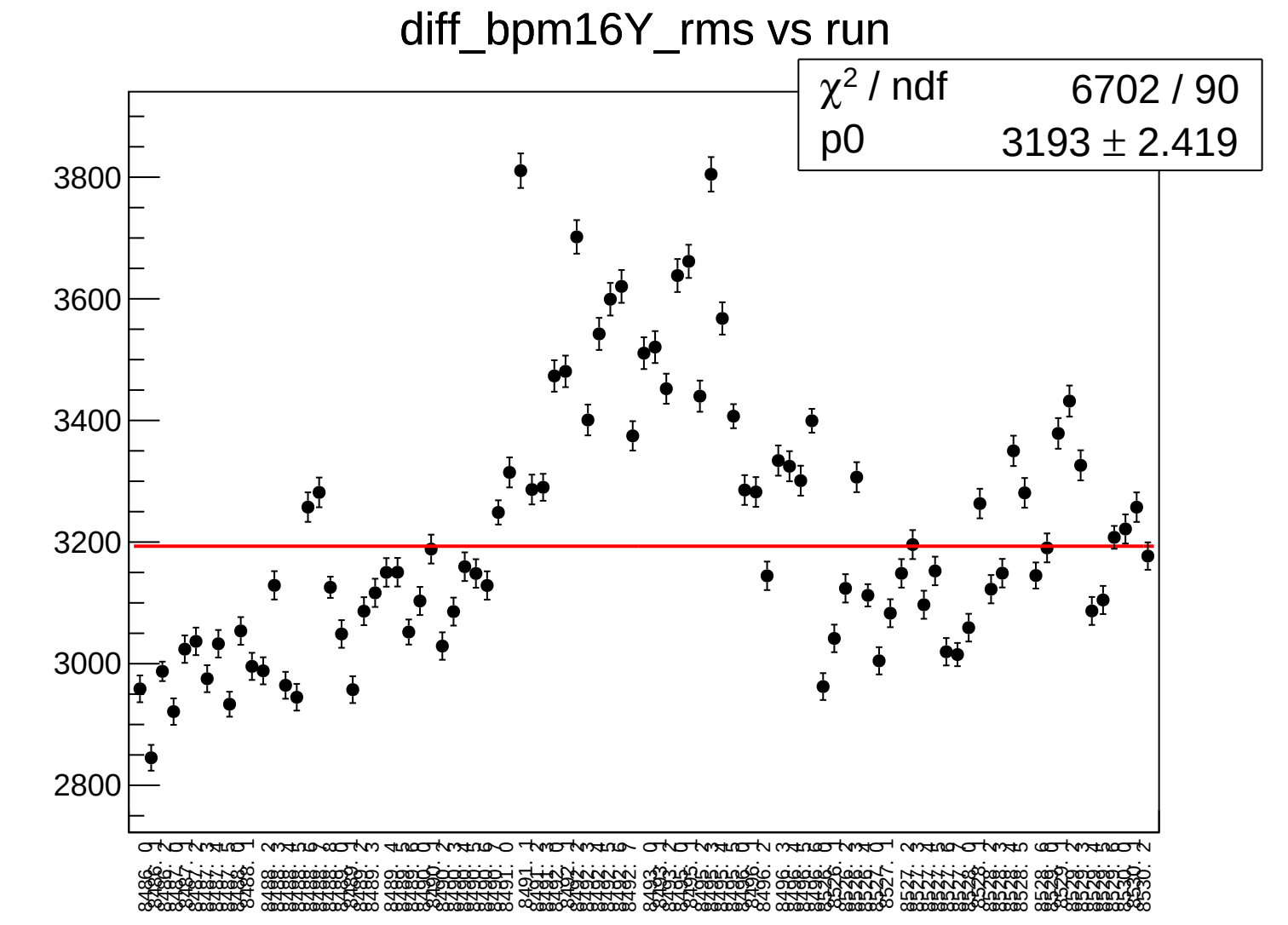

diff_bpm12Y_rms vs run
χ² / ndf 1.709e+04 / 90
p0 2615 ± 1.987
3000
2800
2600
2400
2200

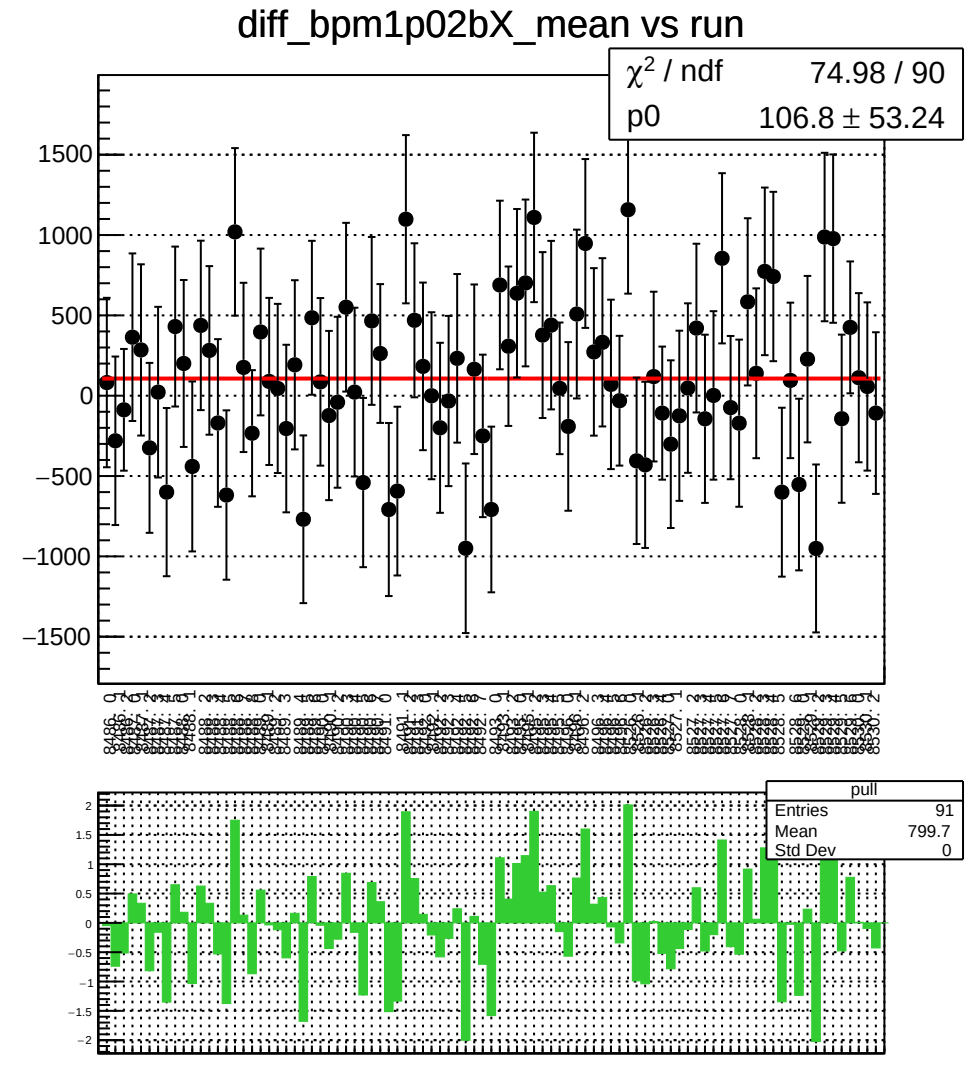

diff_bpm16X_mean vs run
χ² / ndf 81.05 / 90
p0 22.54 ± 17.77
pull
Entries 91
Mean 88.09
Std Dev 0
pull1D
Entries 91
Mean −0.0215
Std Dev 0.9435

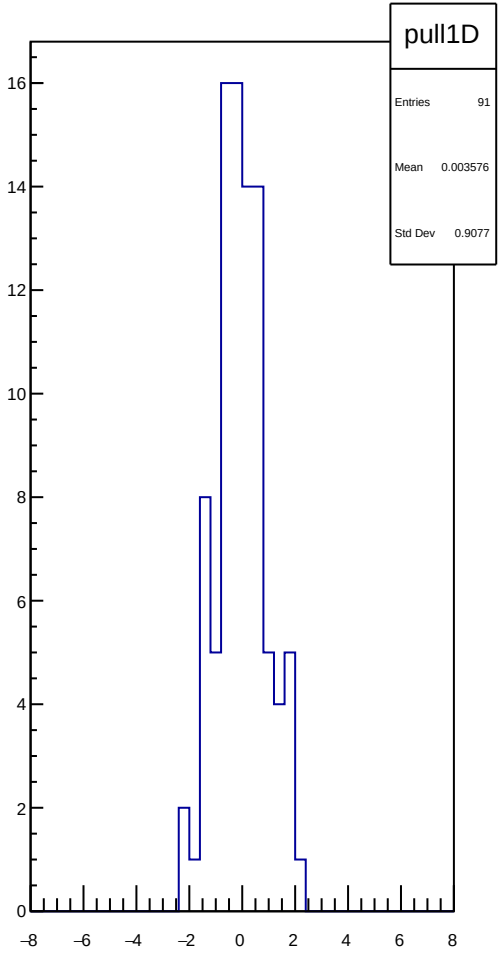

diff_bpm16X_rms vs run
χ² / ndf 2544 / 90
p0 1.66e+04 ± 12.56
18500
18000
17500
17000
16500
16000
15500
15000

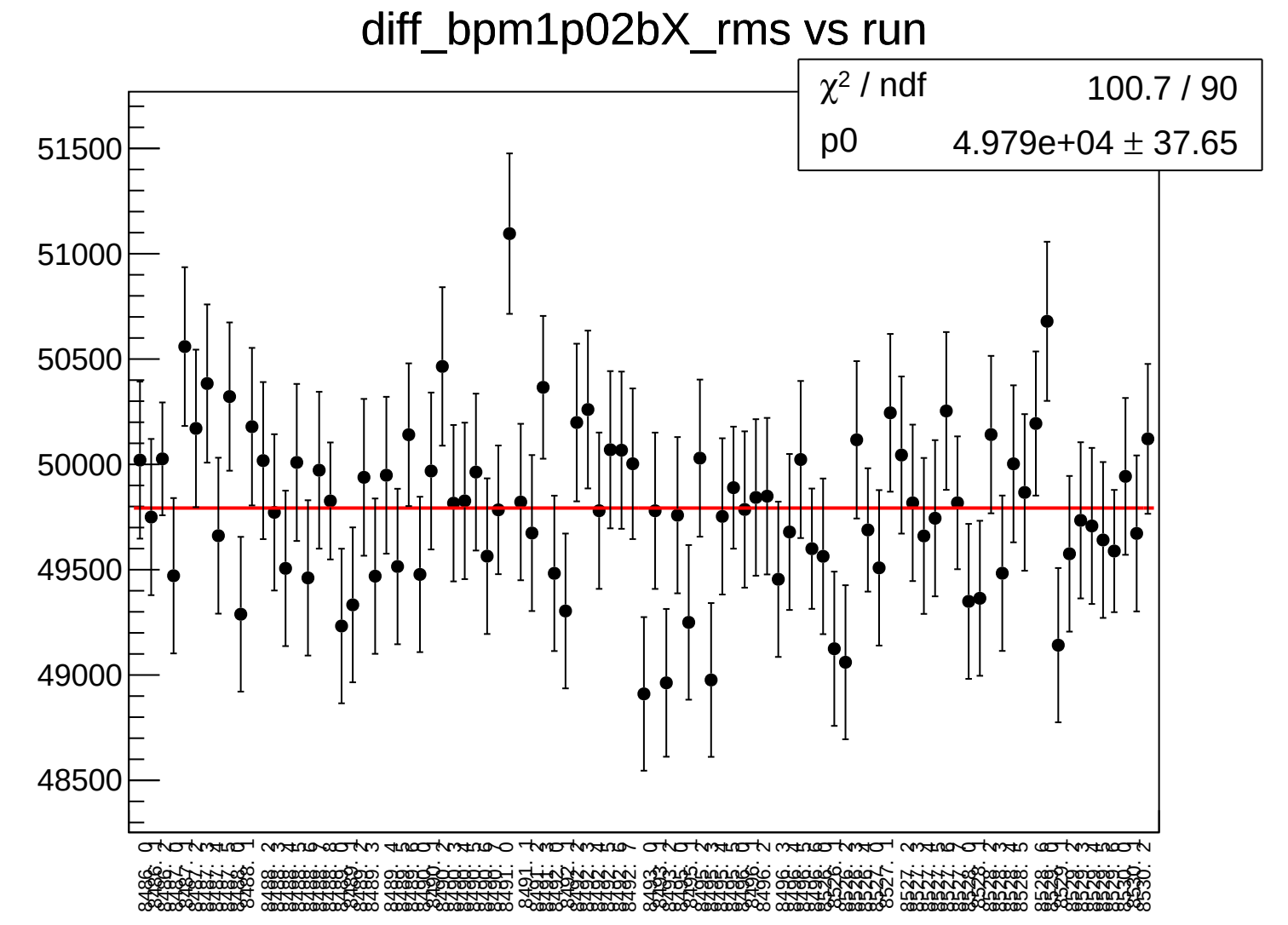

diff_bpm16Y_mean vs run
χ² / ndf 84.73 / 90
p0 −14.68 ± 3.421
pull
Entries 91
Mean −1.847
Std Dev 0

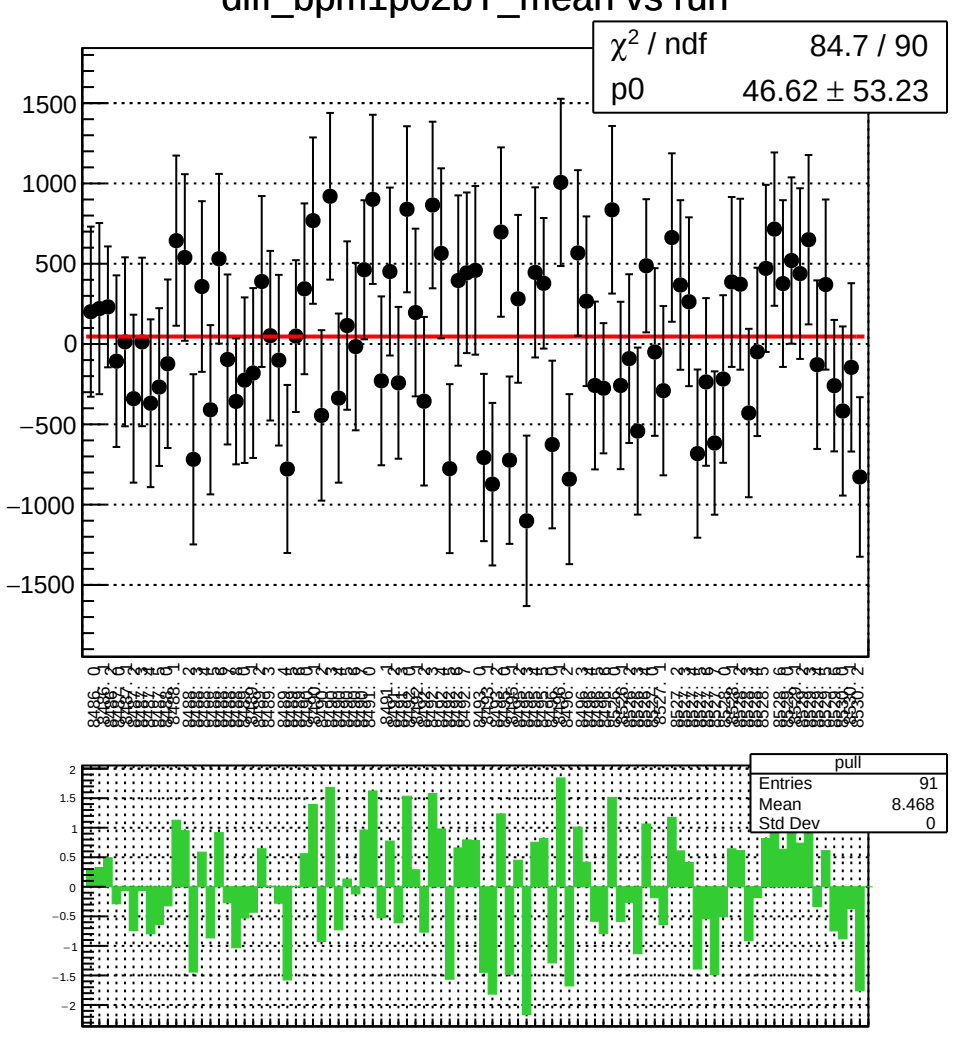

pull1D
Entries 91
Mean −0.01171
Std Dev 0.9649

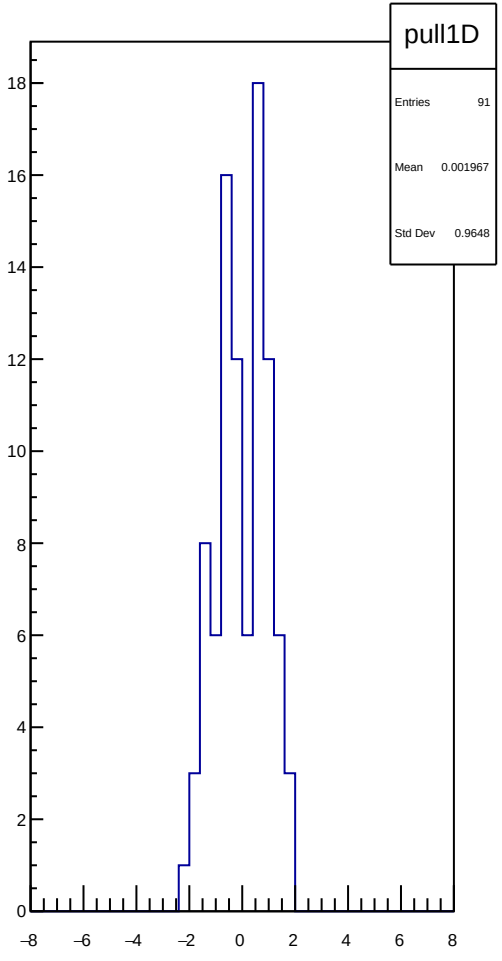

diff_bpm16Y_rms vs run
χ² / ndf 6702 / 90
p0 3193 ± 2.419
3800
3600
3400
3200
3000
2800

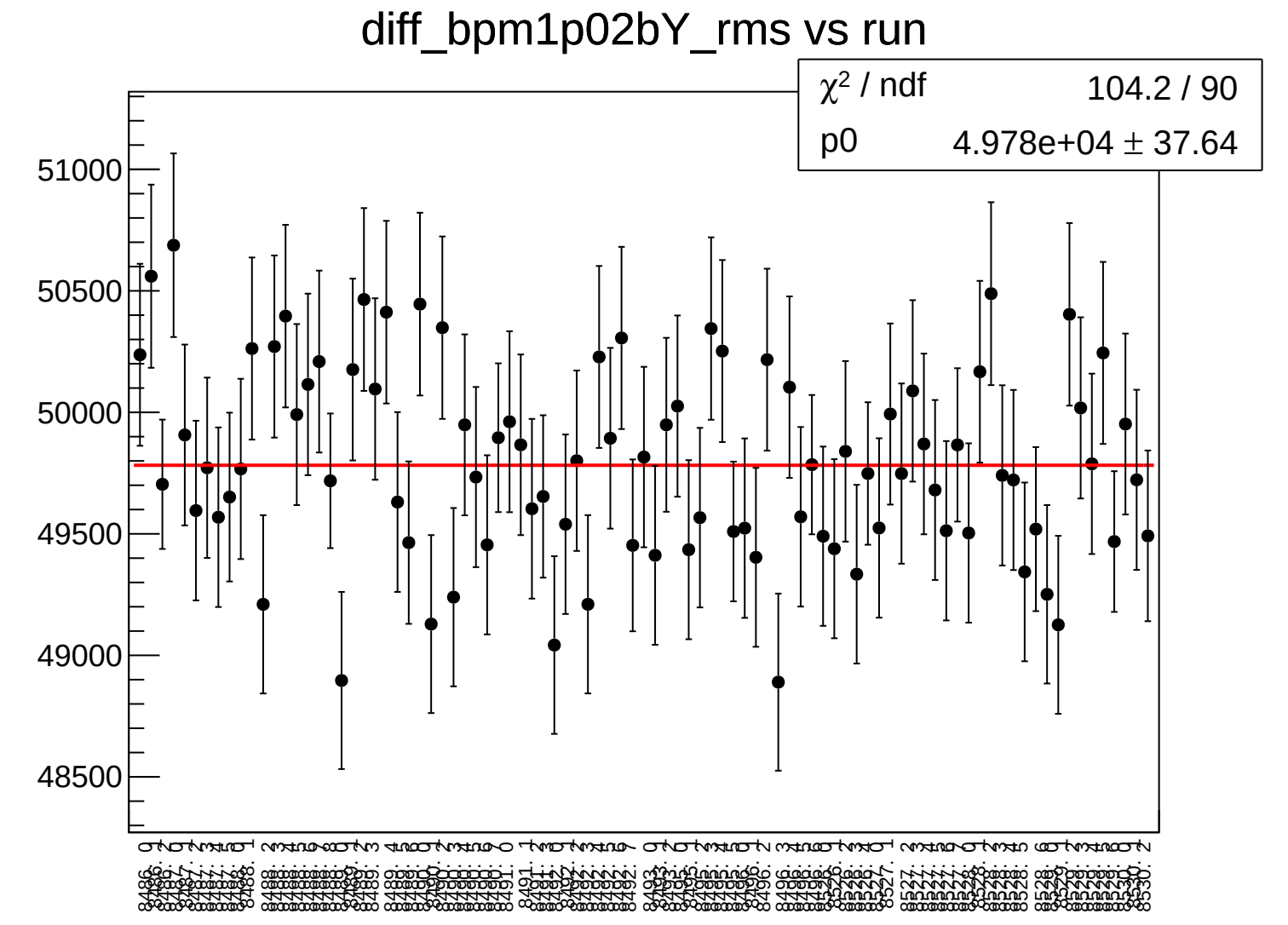

diff_bpm1p02bX_mean vs run
χ² / ndf 74.98 / 90
p0 106.8 ± 53.24
pull
Entries 91
Mean 799.7
Std Dev 0

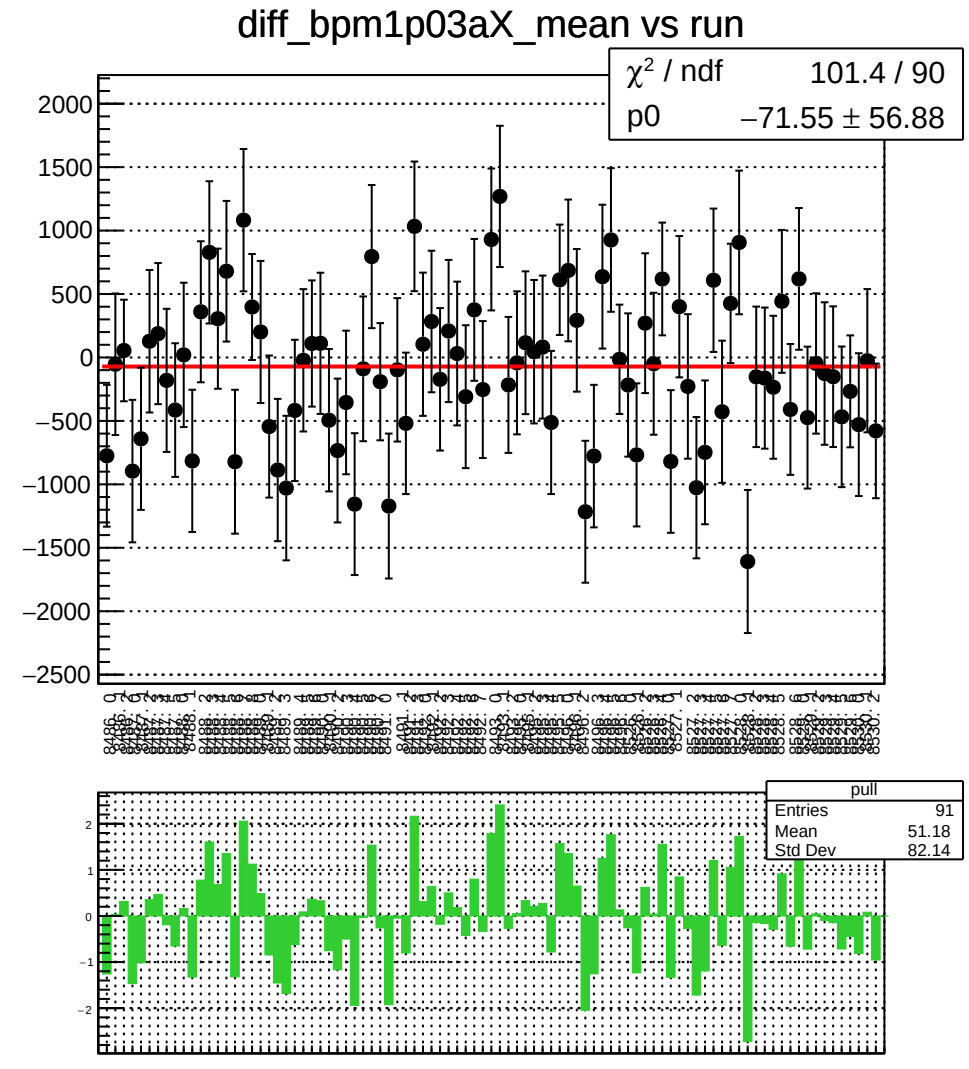

pull1D
Entries 91
Mean 0.003576
Std Dev 0.9077

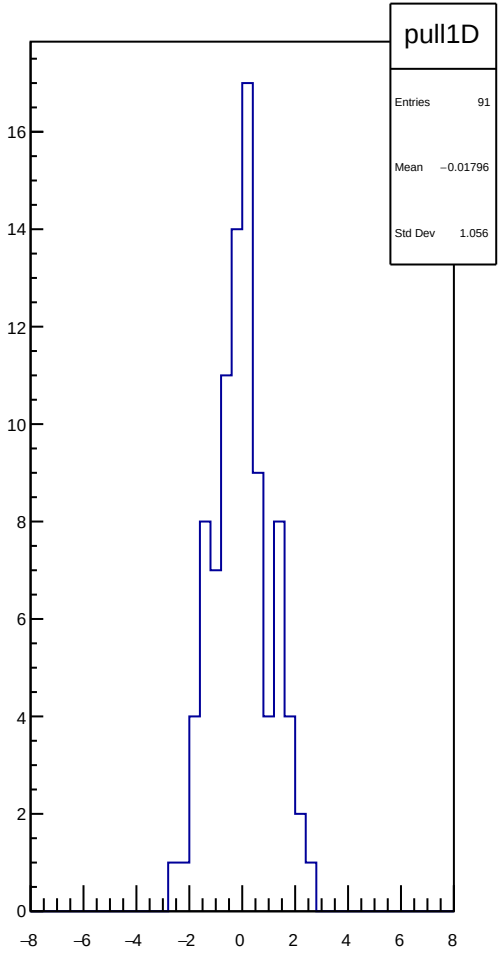

diff_bpm1p02bX_rms vs run
χ² / ndf 100.7 / 90
p0 4.979e+04 ± 37.65
51500
51000
50500
50000
49500
49000
48500

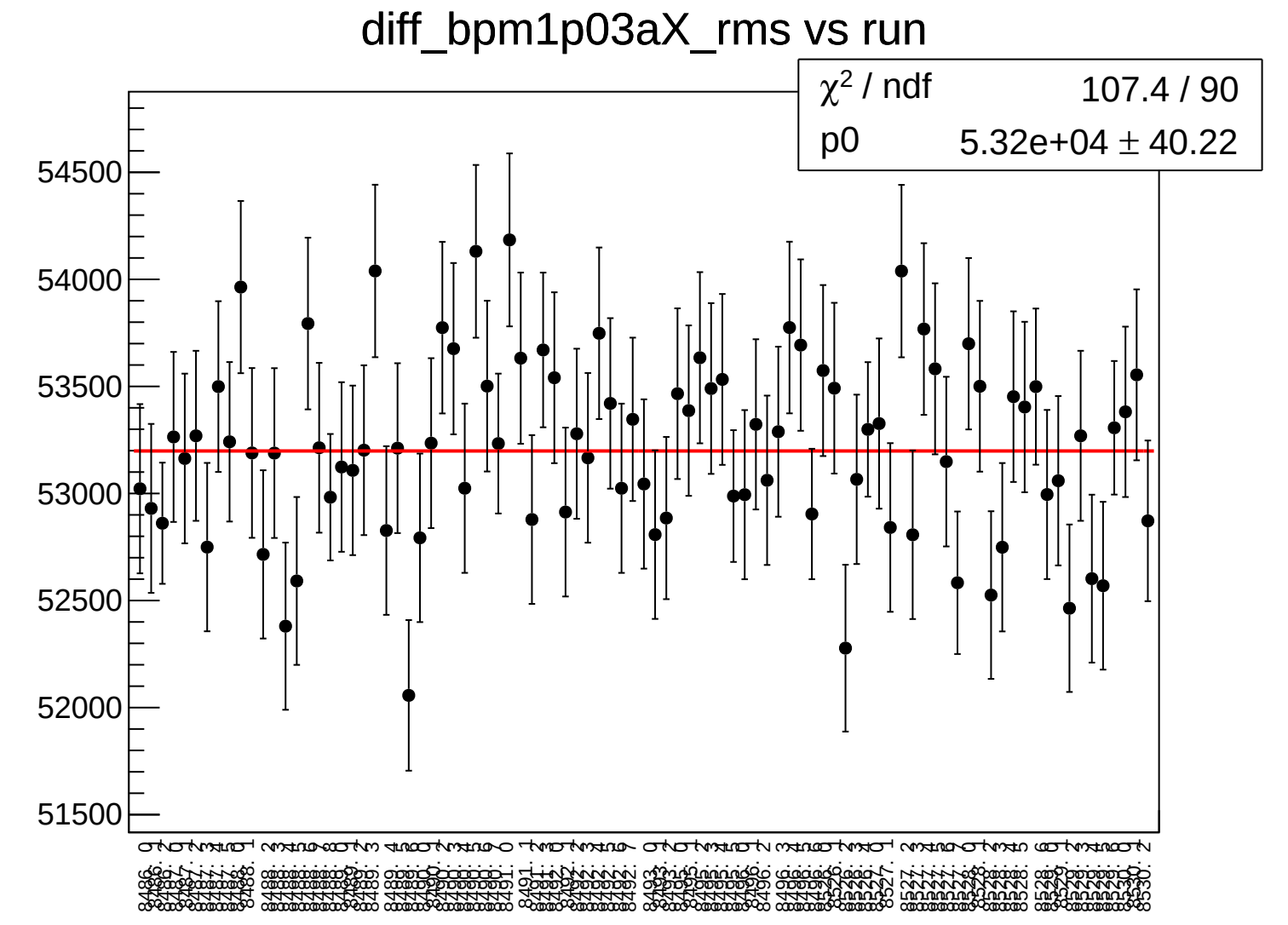

diff_bpm1p02bY_mean vs run
χ^2 / ndf 84.7 / 90
p0 46.62 ± 53.23
1500
1000
500
0
−500
−1000
−1500
pull
Entries 91
Mean 8.468
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

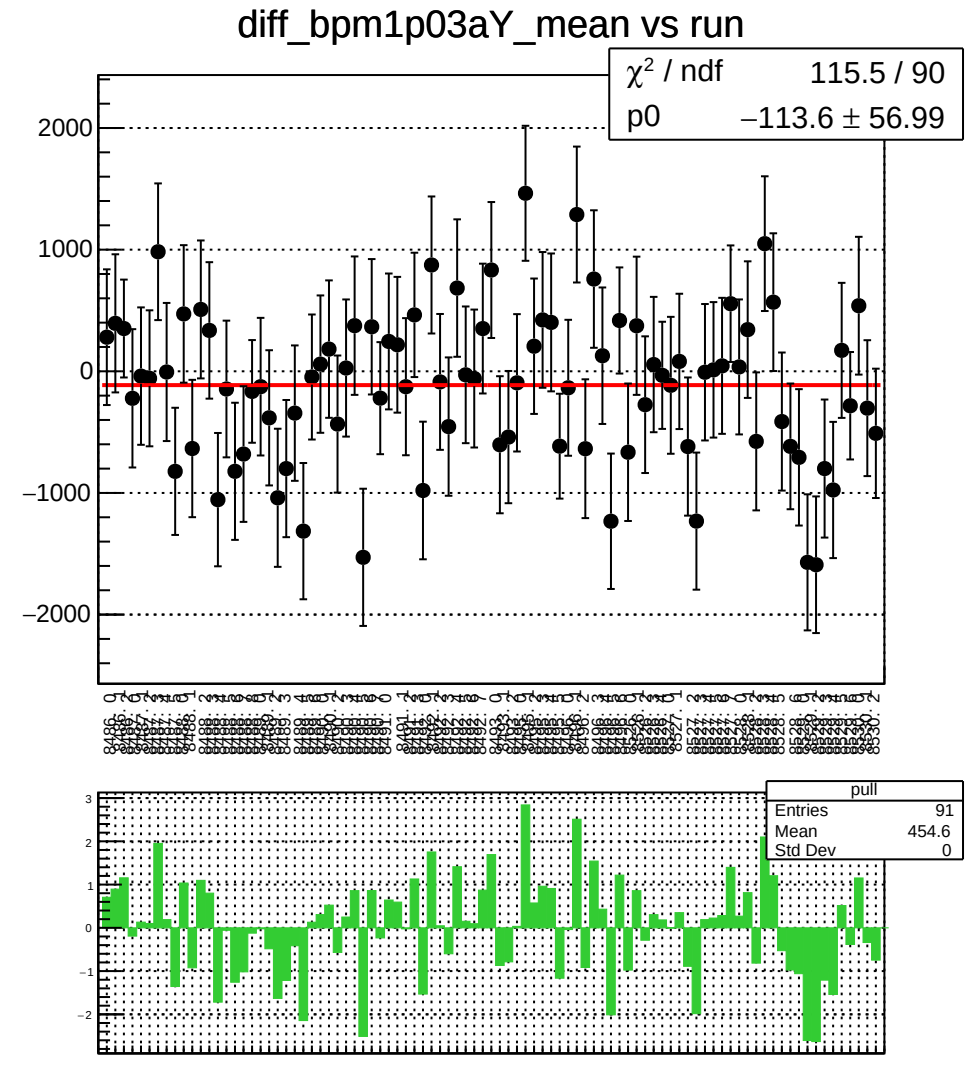

pull1D
Entries 91
Mean 0.001967
Std Dev 0.9648
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

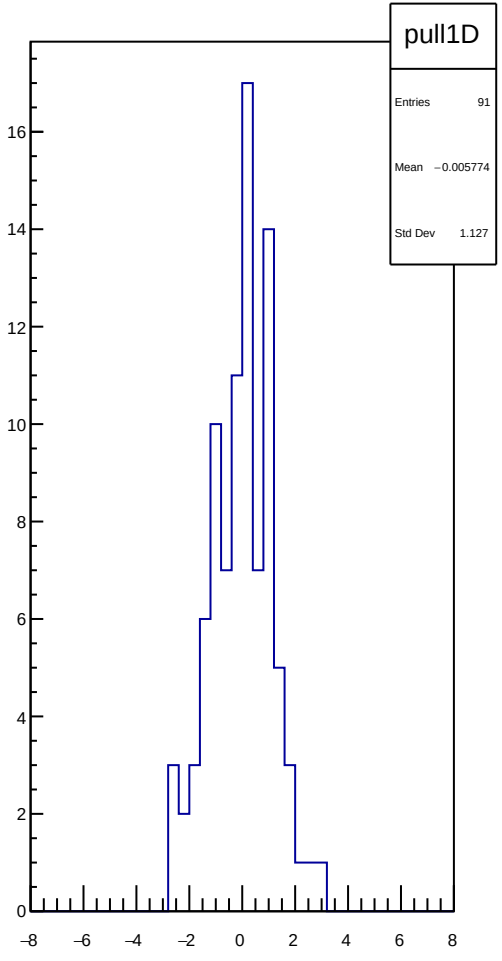

diff_bpm1p02bY_rms vs run
χ² / ndf 104.2 / 90
p0 4.978e+04 ± 37.64
51000
50500
50000
49500
49000
48500

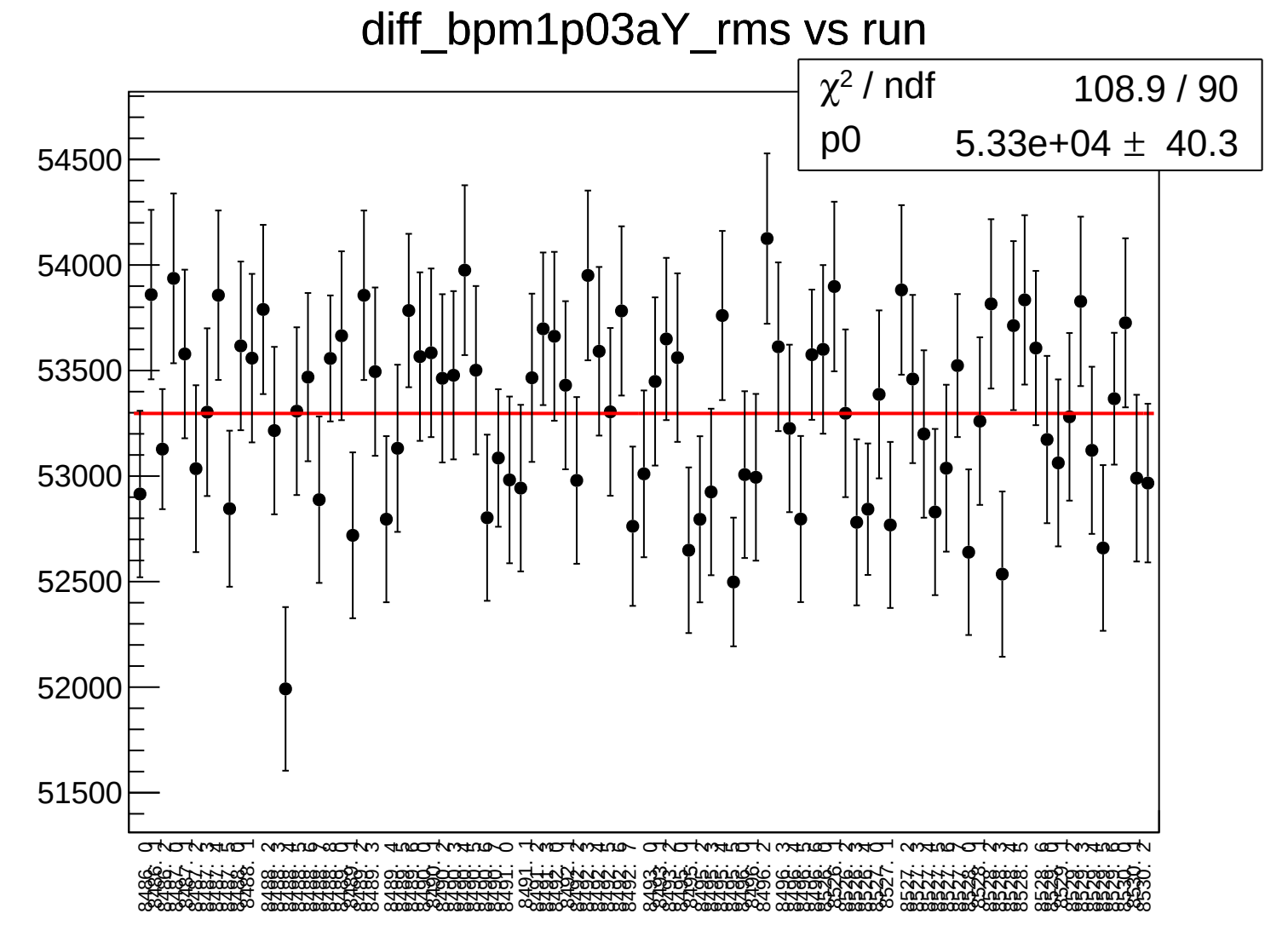

diff_bpm1p03aX_mean vs run
χ² / ndf 101.4 / 90
p0 −71.55 ± 56.88
pull
Entries 91
Mean 51.18
Std Dev 82.14

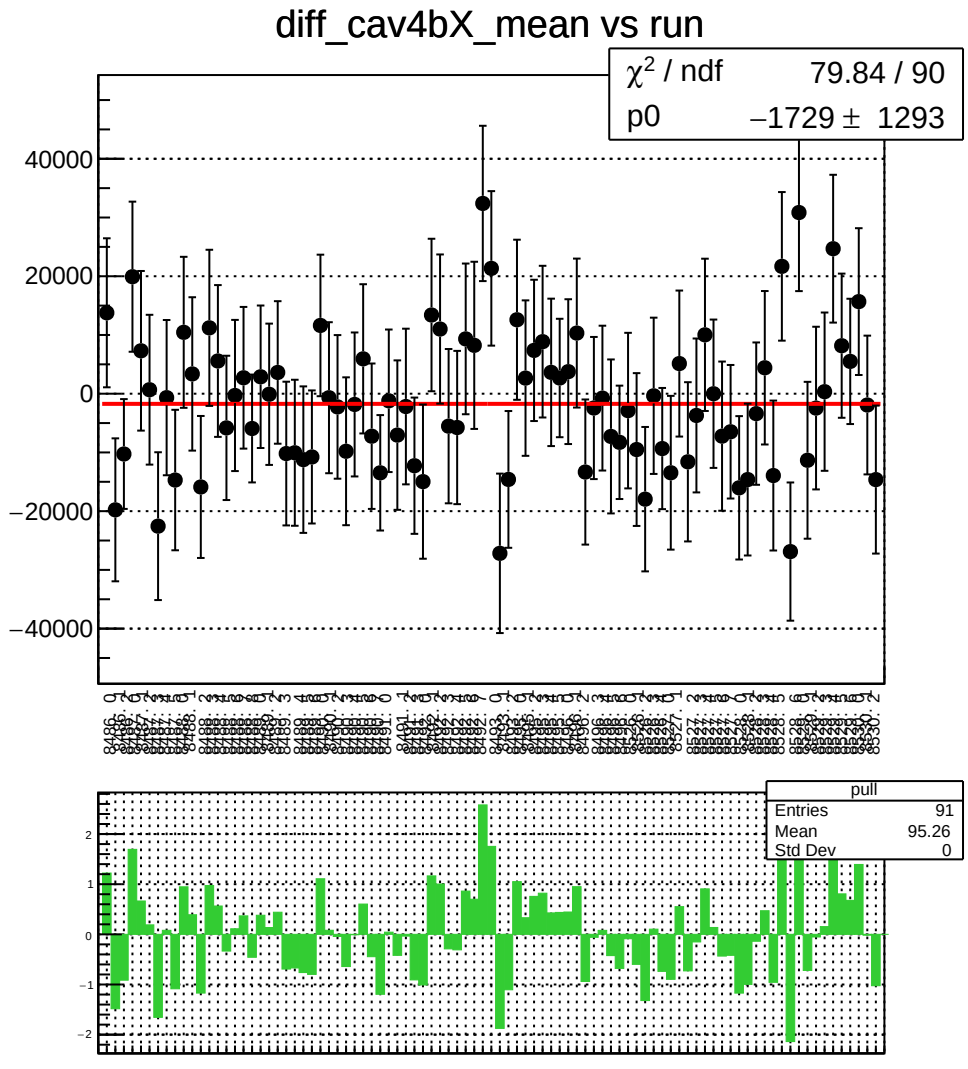

pull1D
Entries 91
Mean −0.01796
Std Dev 1.056

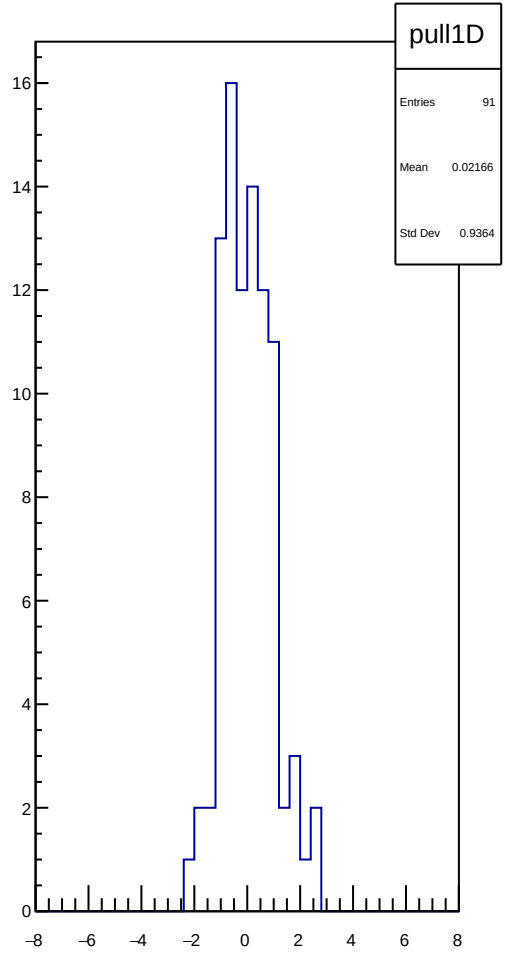

diff_bpm1p03aX_rms vs run
χ^2 / ndf 107.4 / 90
p0 5.32e+04 ± 40.22
54500
54000
53500
53000
52500
52000
51500

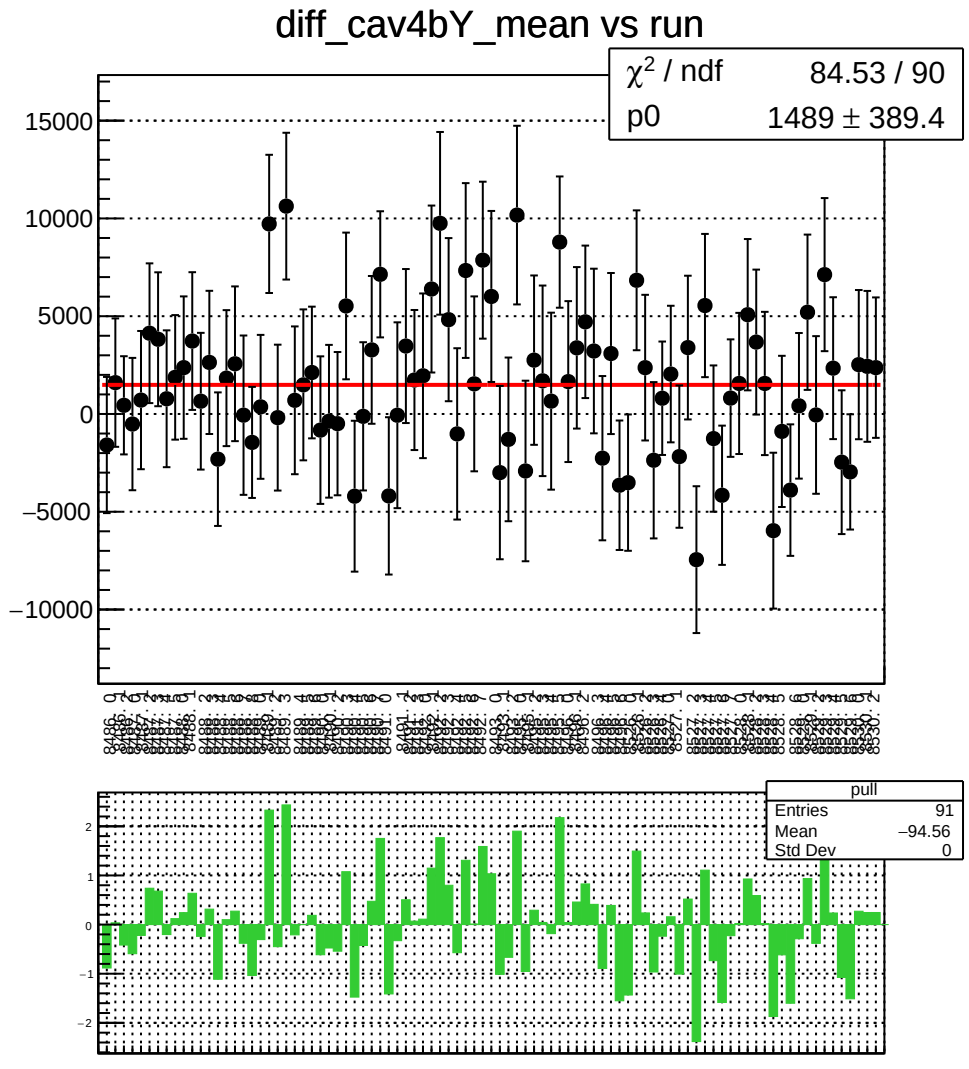

diff_bpm1p03aY_mean vs run
χ² / ndf 115.5 / 90
p0 −113.6 ± 56.99
2000
1000
0
−1000
−2000
pull
Entries 91
Mean 454.6
Std Dev 0
3
2
1
0
−1
−2

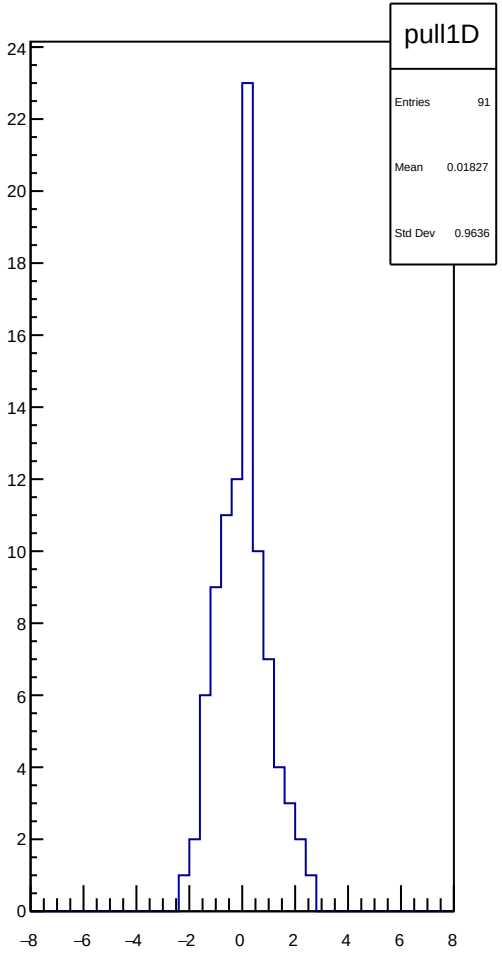

pull1D
Entries 91
Mean −0.005774
Std Dev 1.127
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

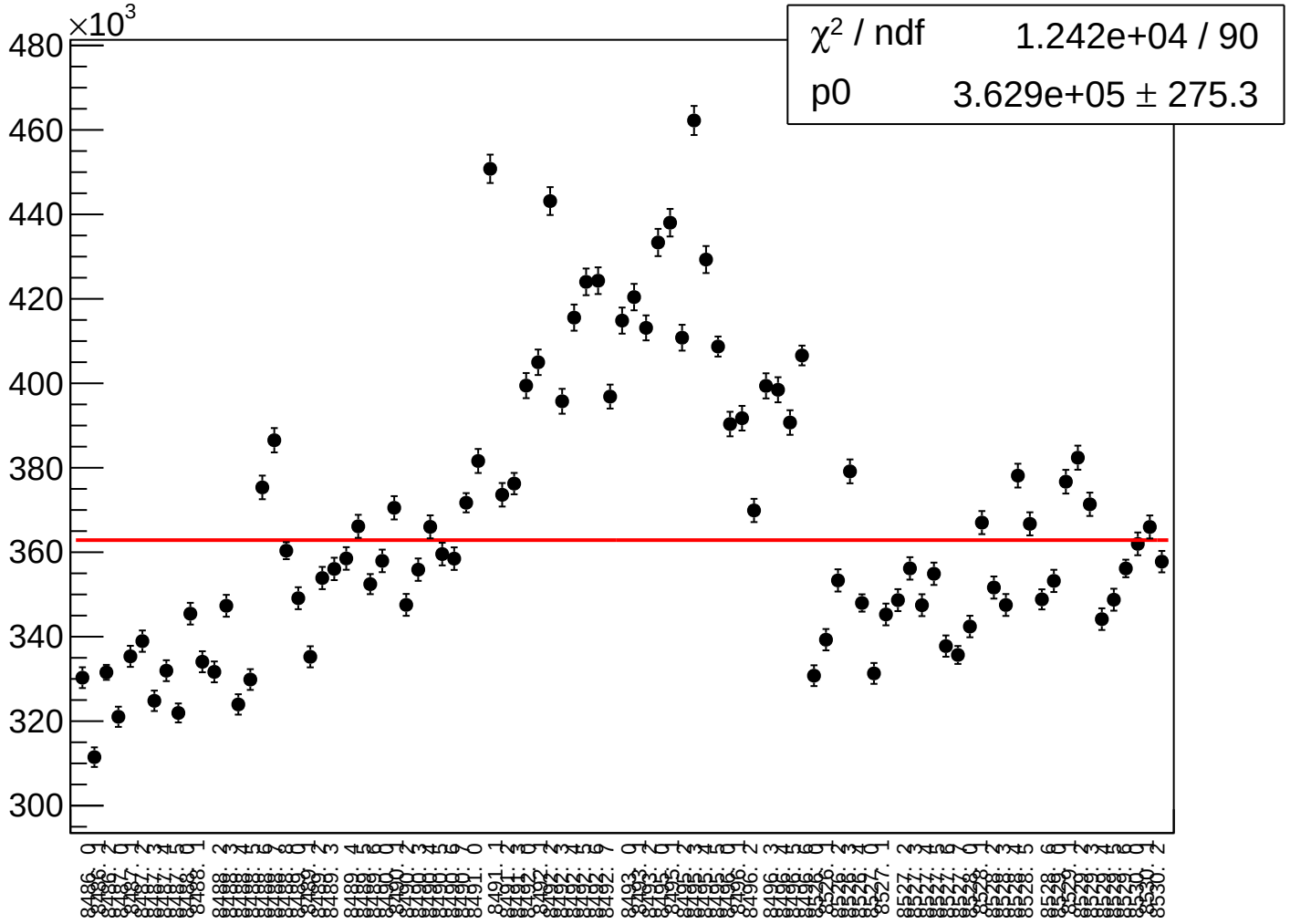

diff_bpm1p03aY_rms vs run
χ² / ndf 108.9 / 90
p0 5.33e+04 ± 40.3
54500
54000
53500
53000
52500
52000
51500

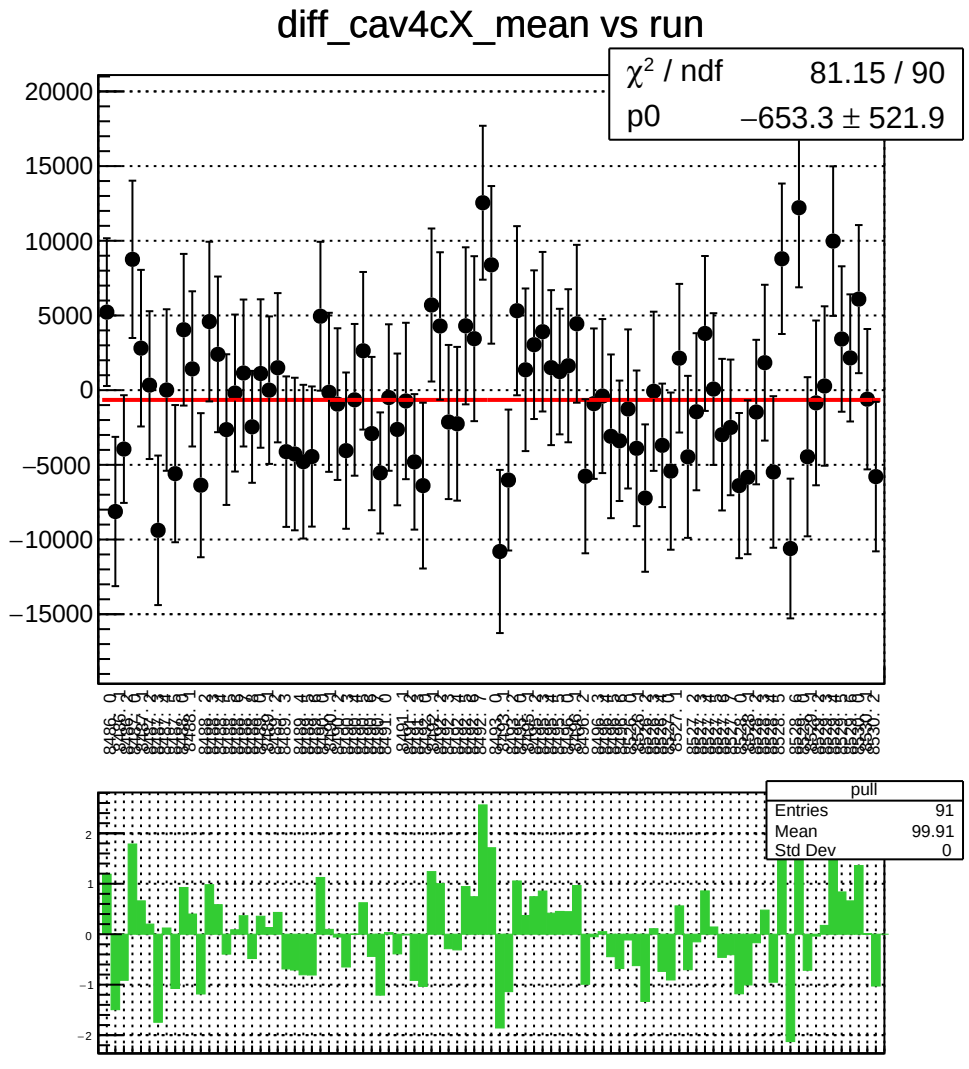

diff_cav4bX_mean vs run
χ² / ndf 79.84 / 90
p0 −1729 ± 1293
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 95.26
Std Dev 0
2
1
0
−1
−2

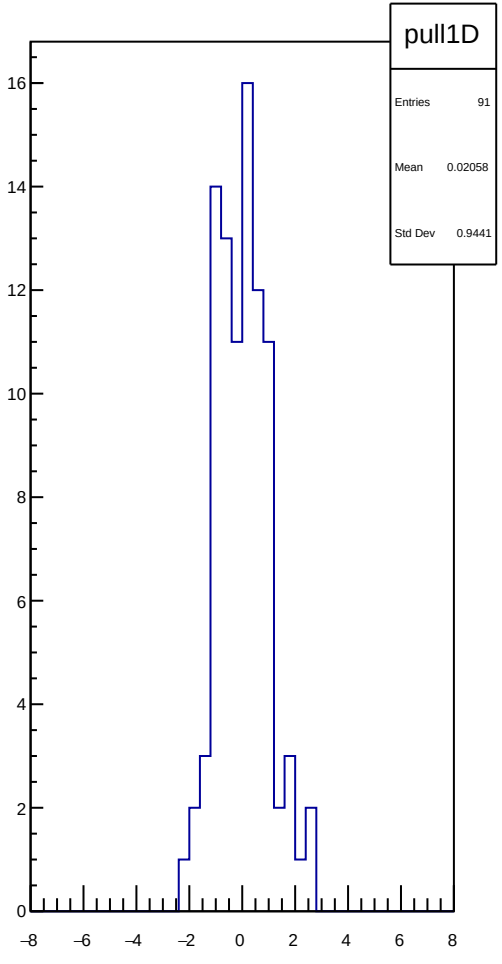

pull1D
Entries 91
Mean 0.02166
Std Dev 0.9364
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

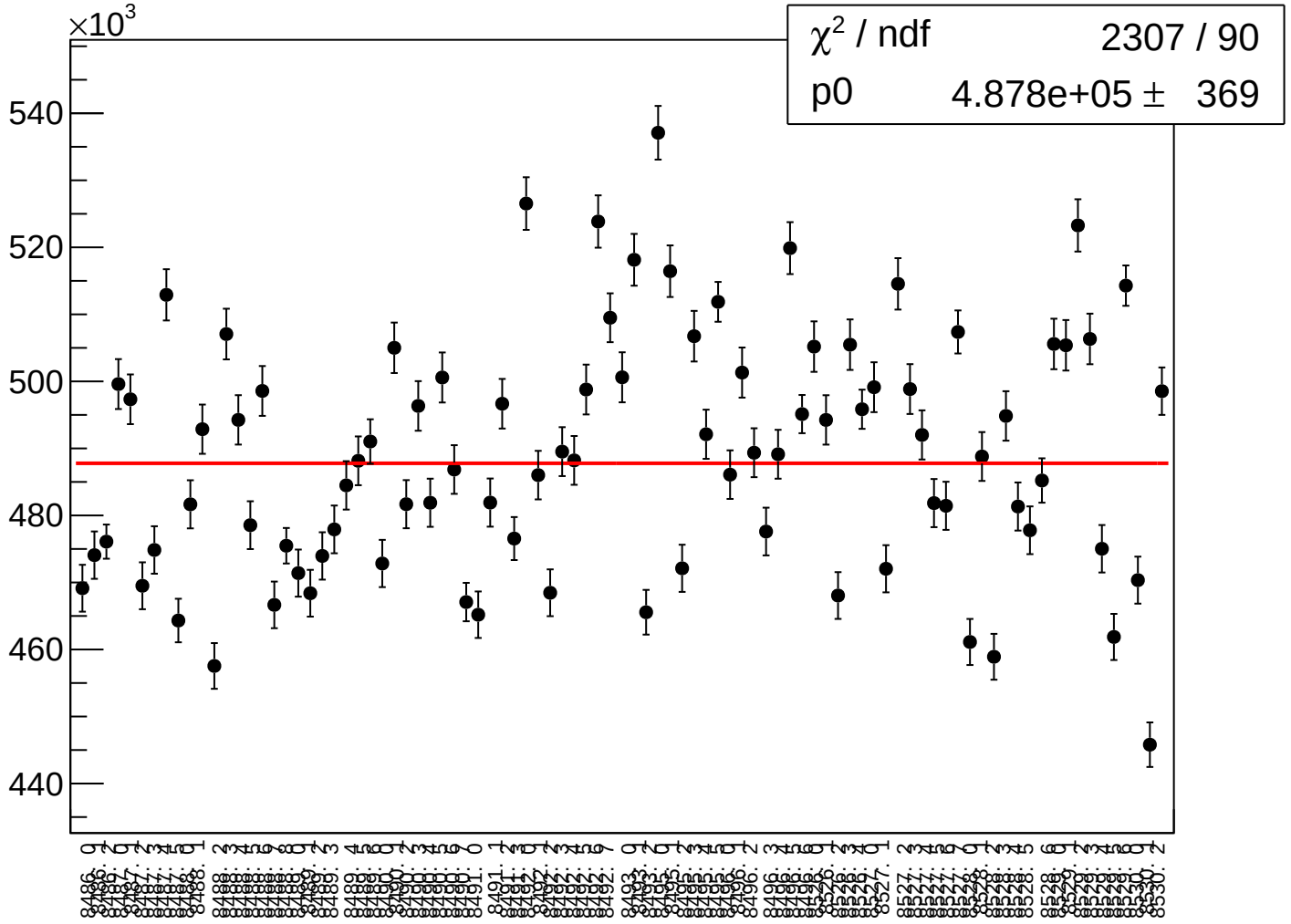

diff_cav4bY_mean vs run
χ² / ndf 84.53 / 90
p0 1489 ± 389.4
15000
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −94.56
Std Dev 0
2
1
0
−1
−2

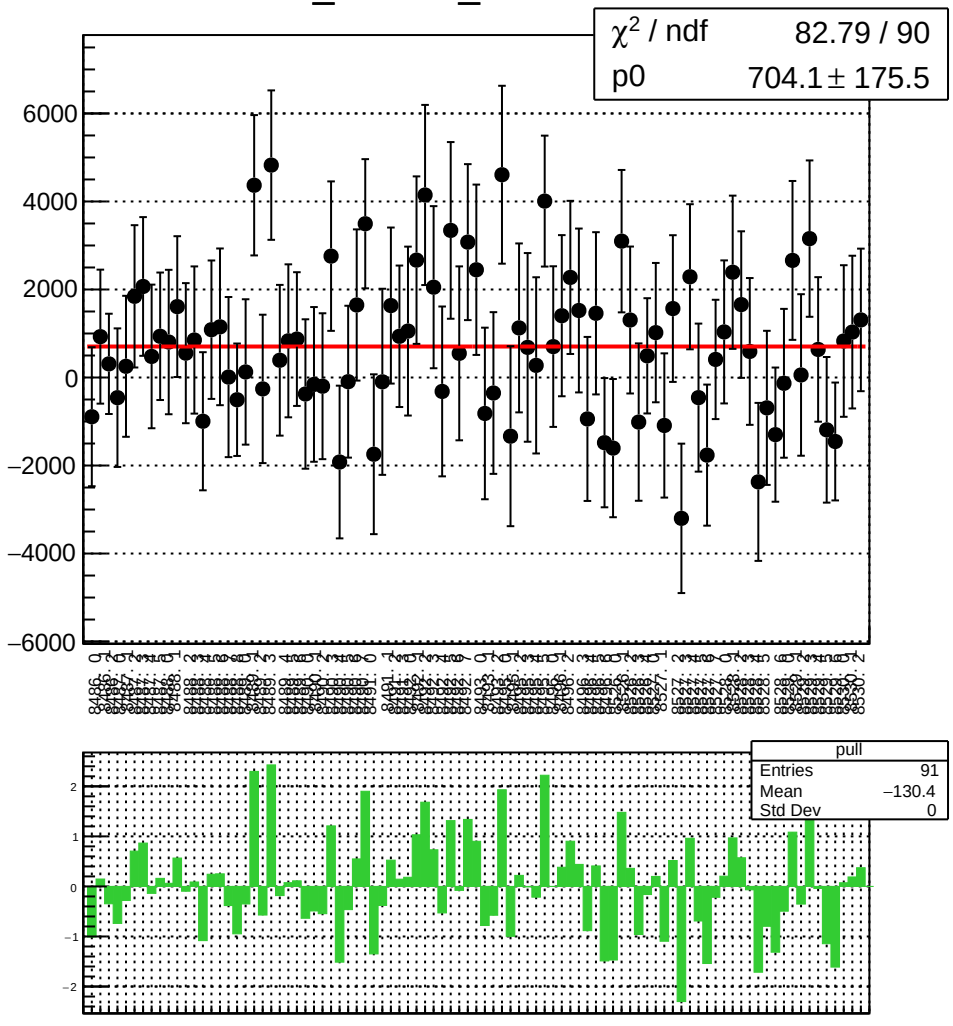

pull1D
Entries 91
Mean 0.01827
Std Dev 0.9636
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

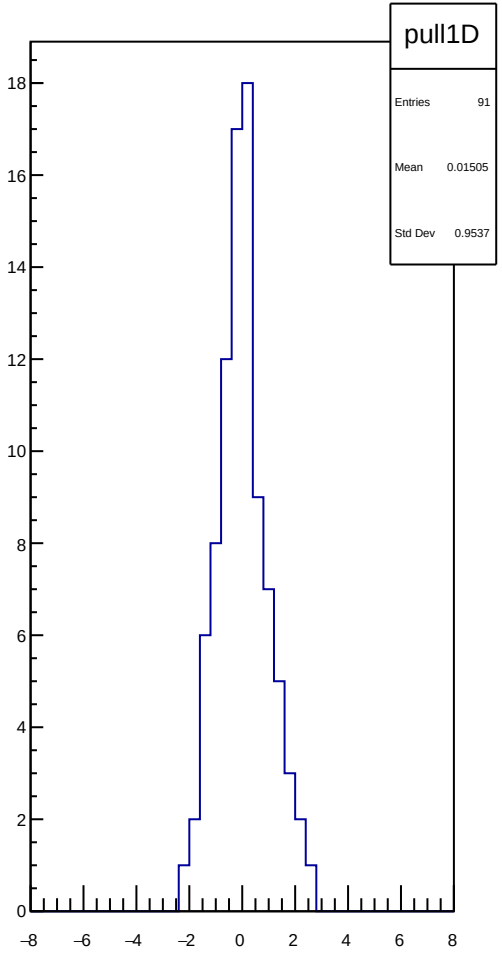

diff_cav4bY_rms vs run
×10^3
480
460
440
420
400
380
360
340
320
300
χ² / ndf 1.242e+04 / 90
p0 3.629e+05 ± 275.3

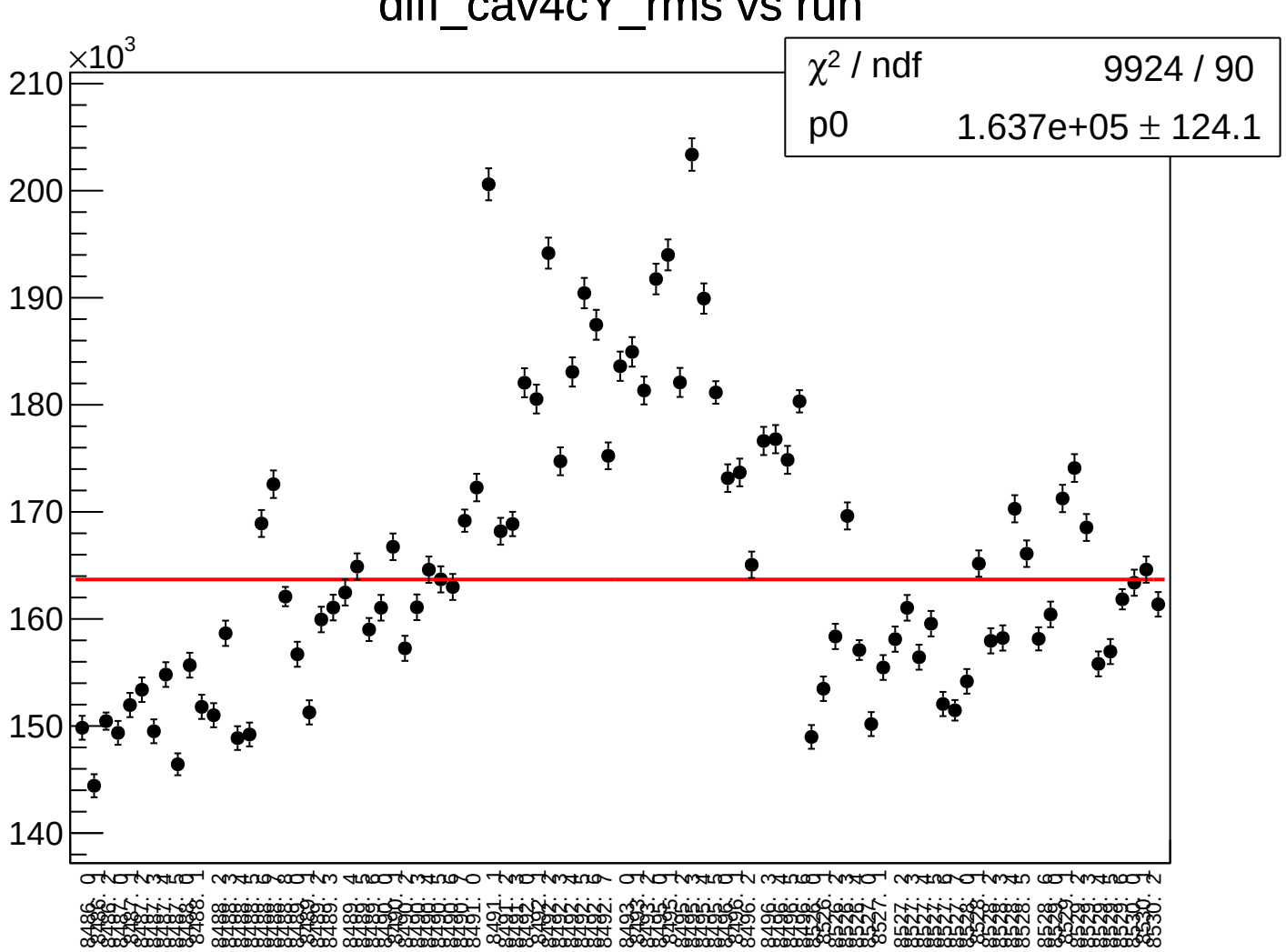

diff_cav4cX_mean vs run
χ² / ndf 81.15 / 90
p0 −653.3 ± 521.9
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 99.91
Std Dev 0
2
1
0
−1
−2

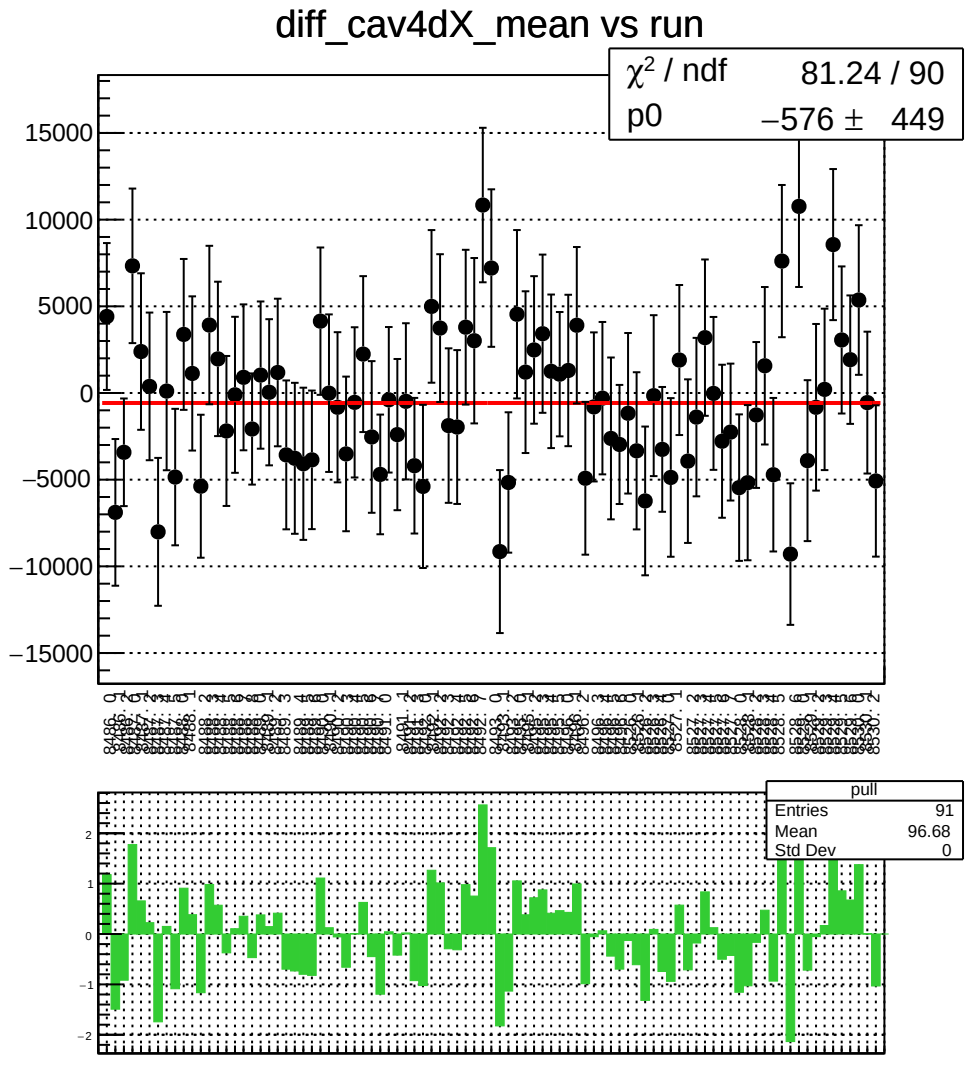

pull1D
Entries 91
Mean 0.02058
Std Dev 0.9441
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

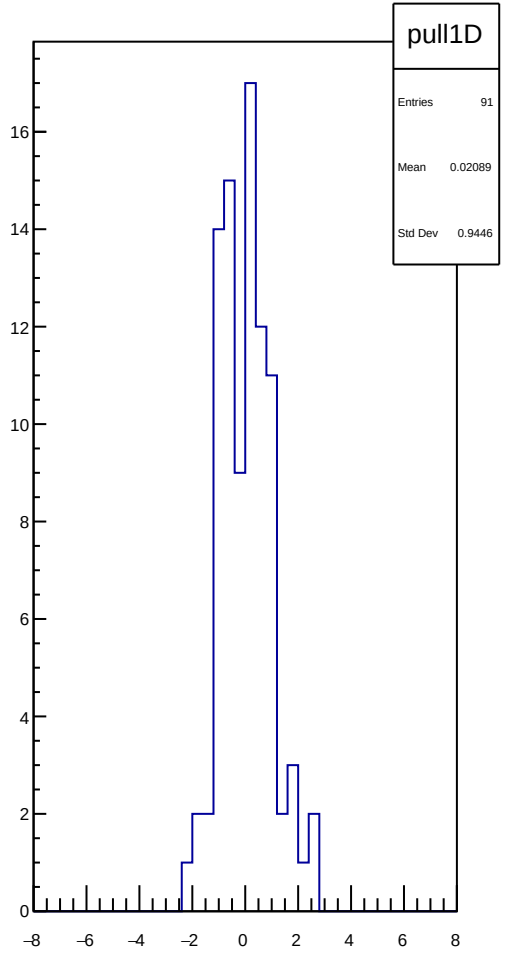

diff_cav4cX_rms vs run
×10^3
540
520
500
480
460
440
χ² / ndf 2307 / 90
p0 4.878e+05 ± 369

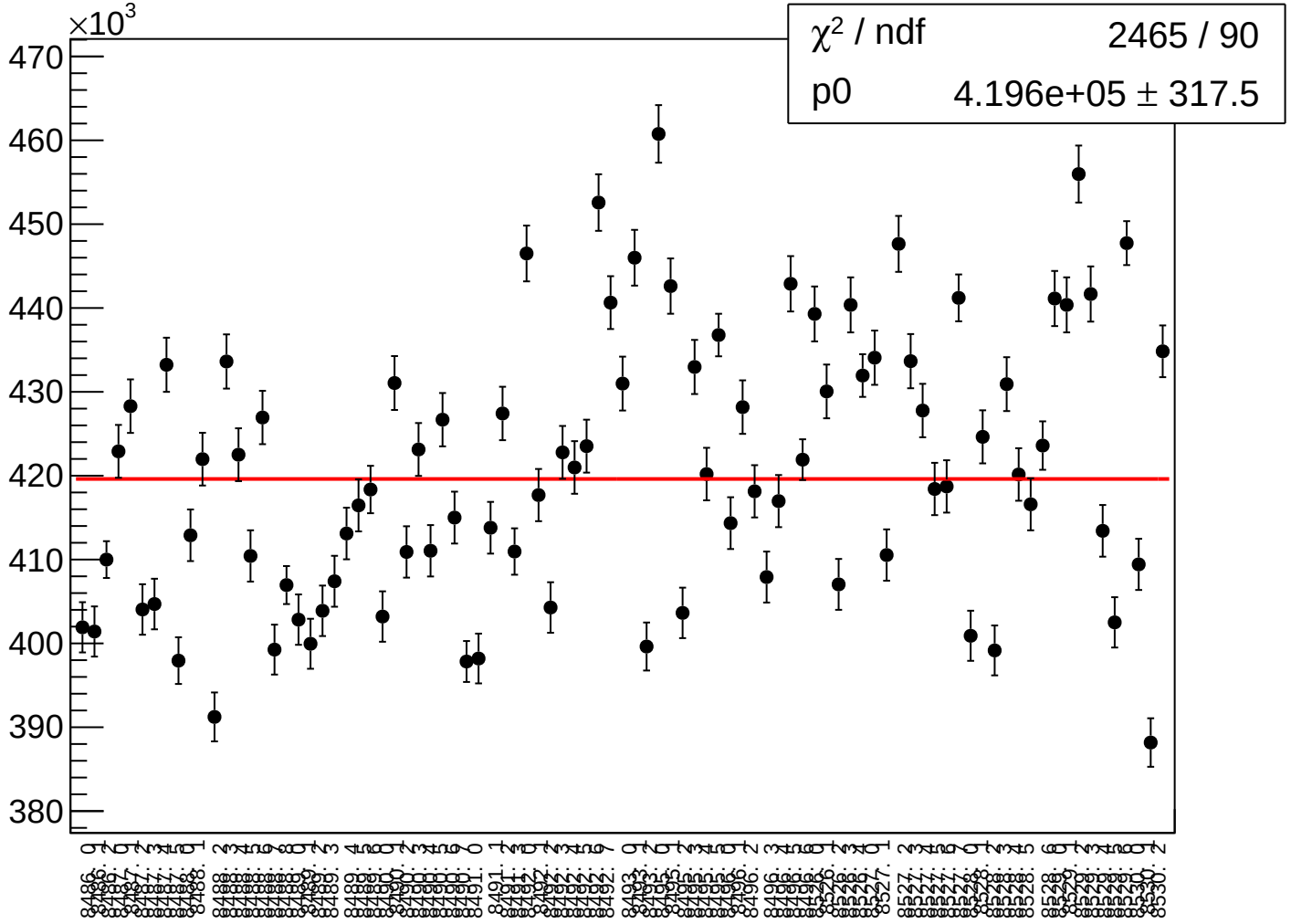

diff_cav4cY_mean vs run
χ² / ndf 82.79 / 90
p0 704.1 ± 175.5
pull
Entries 91
Mean −130.4
Std Dev 0

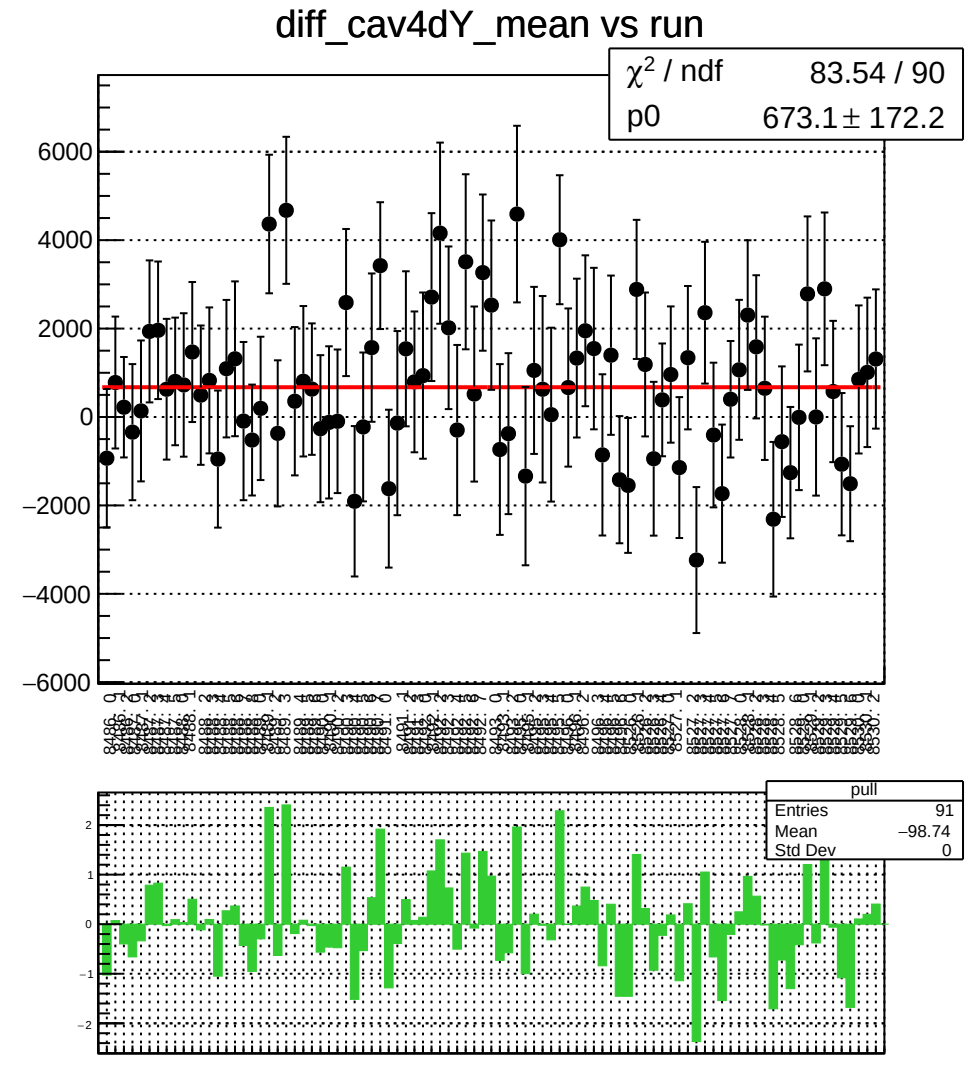

pull1D
Entries 91
Mean 0.01505
Std Dev 0.9537

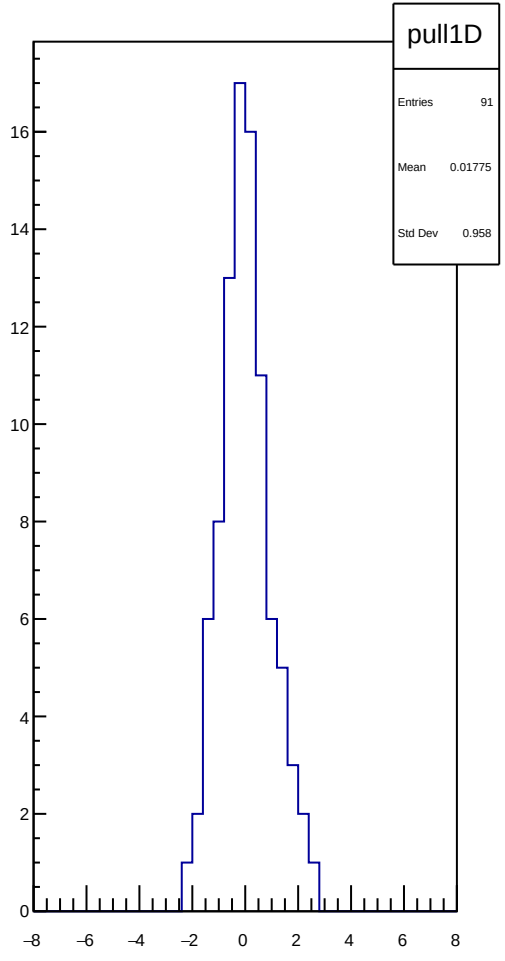

diff_cav4cY_rms vs run
×10^3
210
200
190
180
170
160
150
140
χ² / ndf 9924 / 90
p0 1.637e+05 ± 124.1

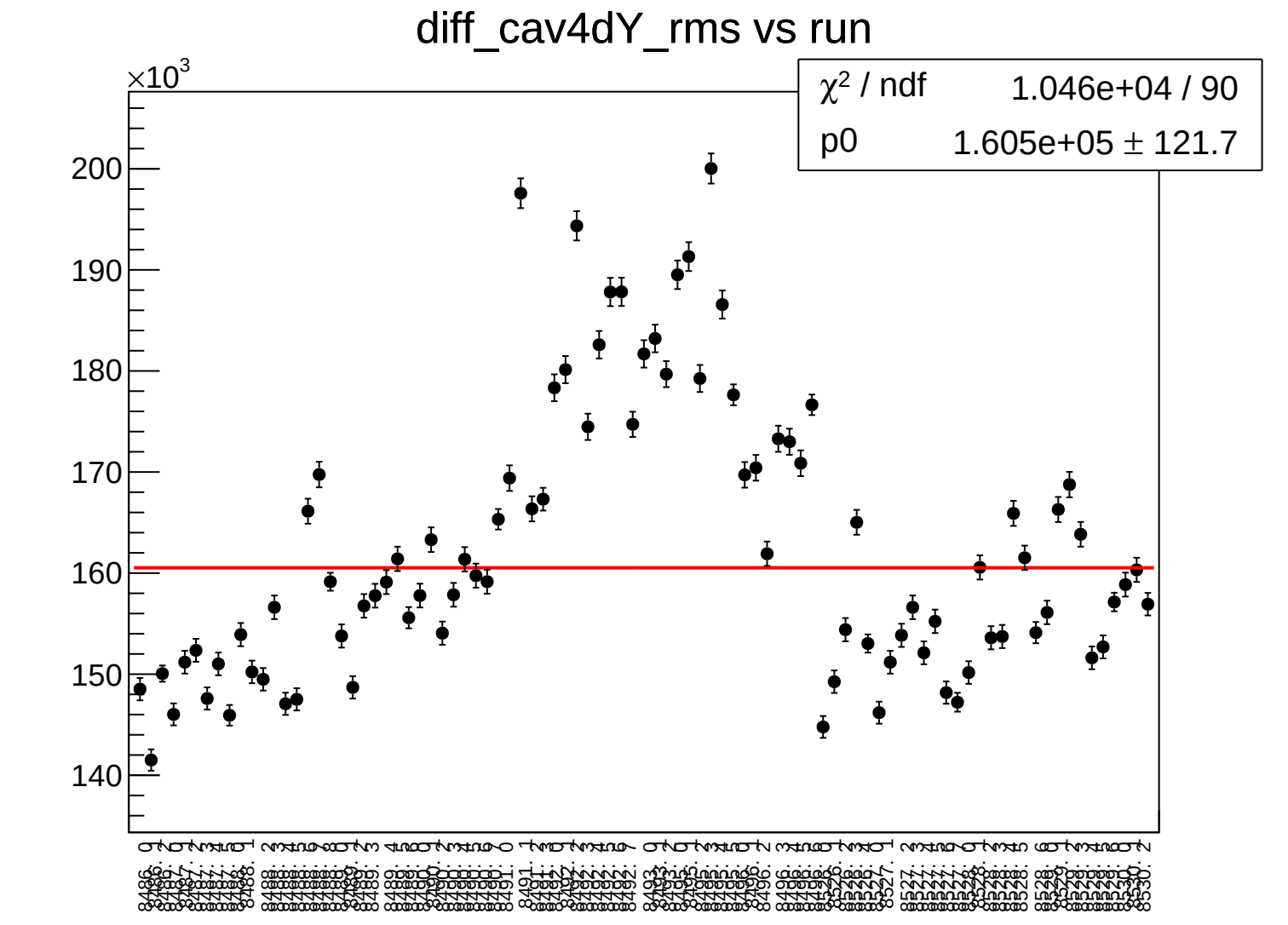

diff_cav4dX_mean vs run
χ² / ndf 81.24 / 90
p0 −576 ± 449
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 96.68
Std Dev 0
2
1
0
−1
−2

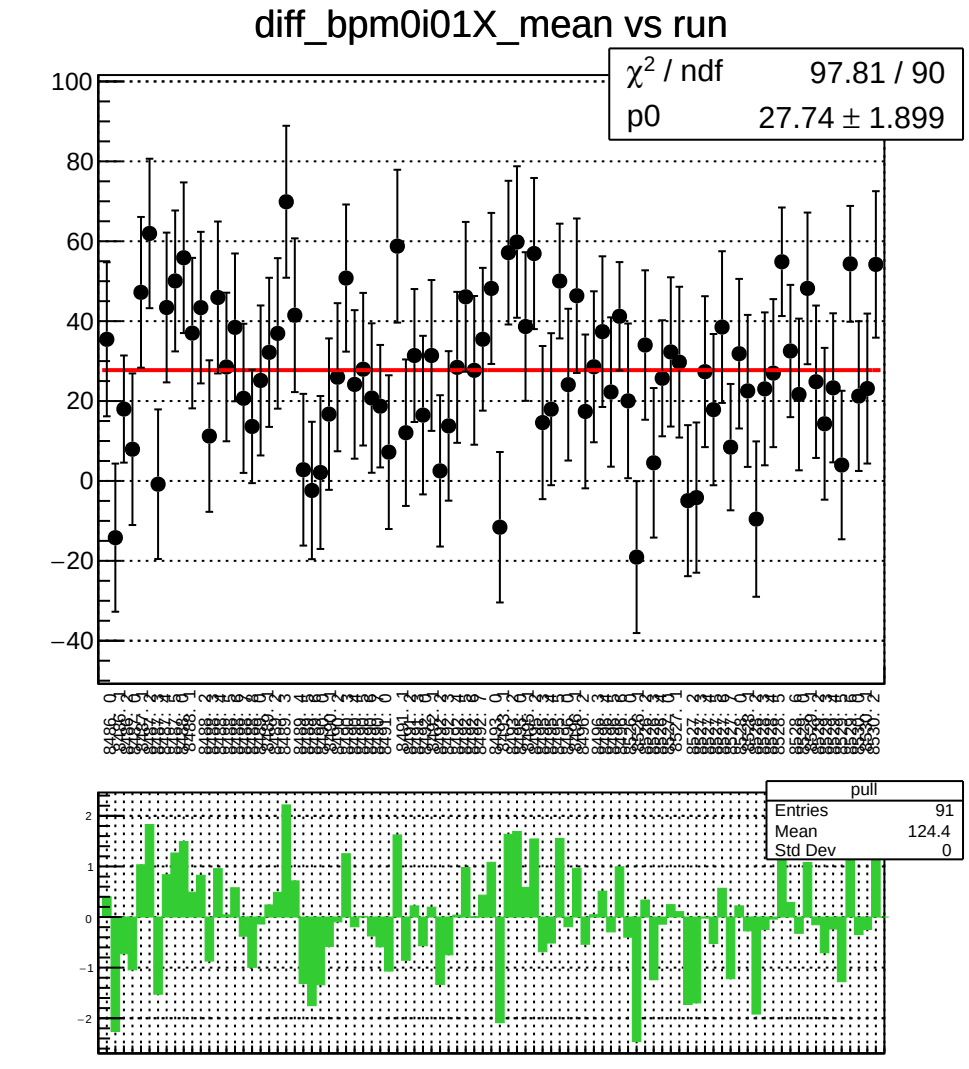

pull1D
Entries 91
Mean 0.02089
Std Dev 0.9446
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

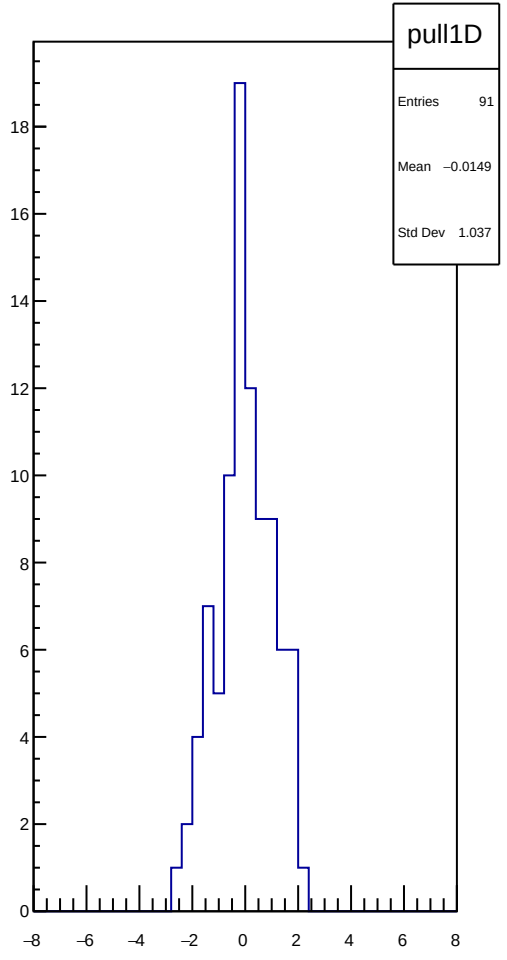

diff_cav4dX_rms vs run
×10^3
470
460
450
440
430
420
410
400
390
380
χ² / ndf 2465 / 90
p0 4.196e+05 ± 317.5

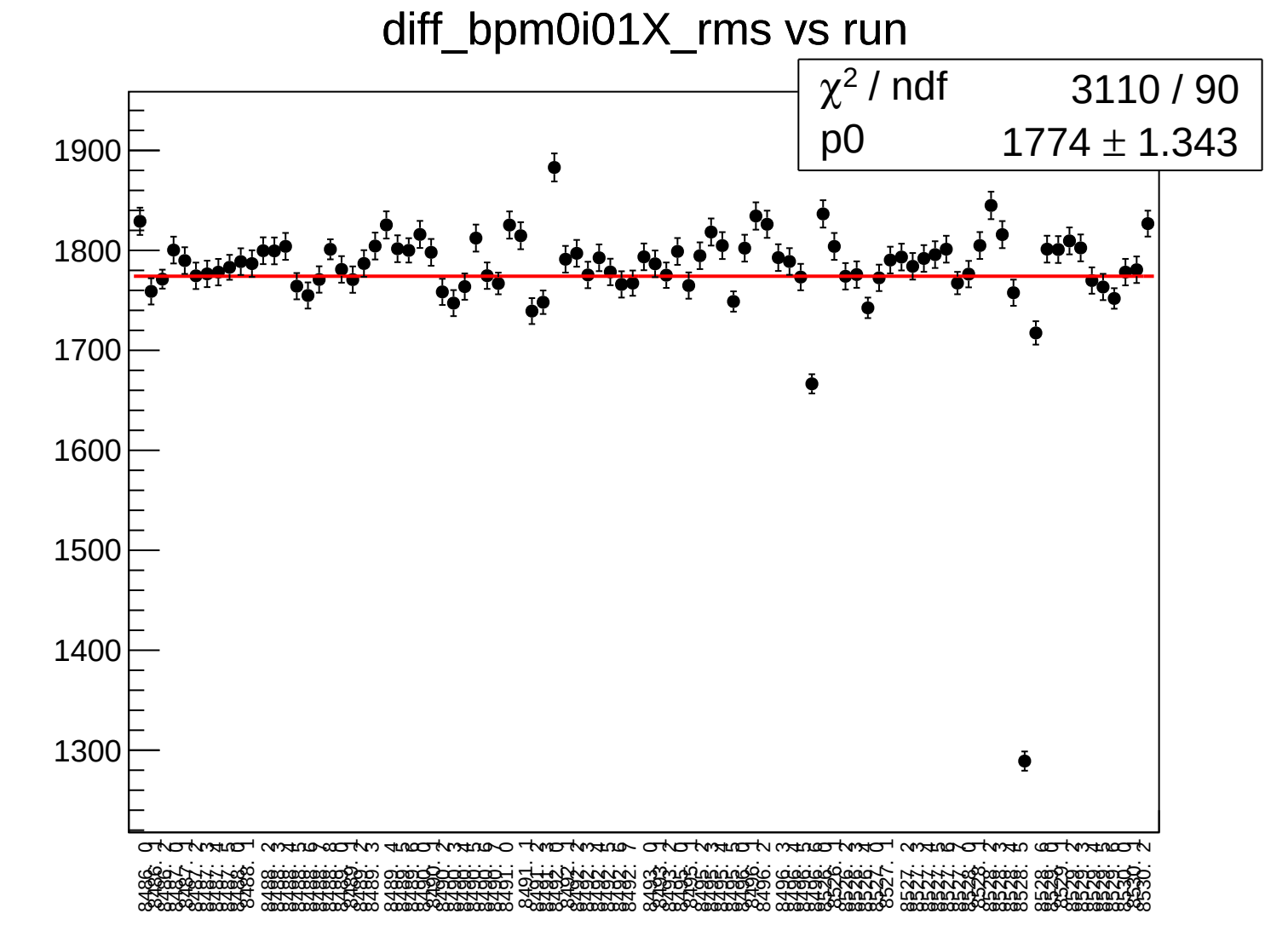

diff_cav4dY_mean vs run
χ² / ndf 83.54 / 90
p0 673.1 ± 172.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean −98.74
Std Dev 0
2
1
0
−1
−2

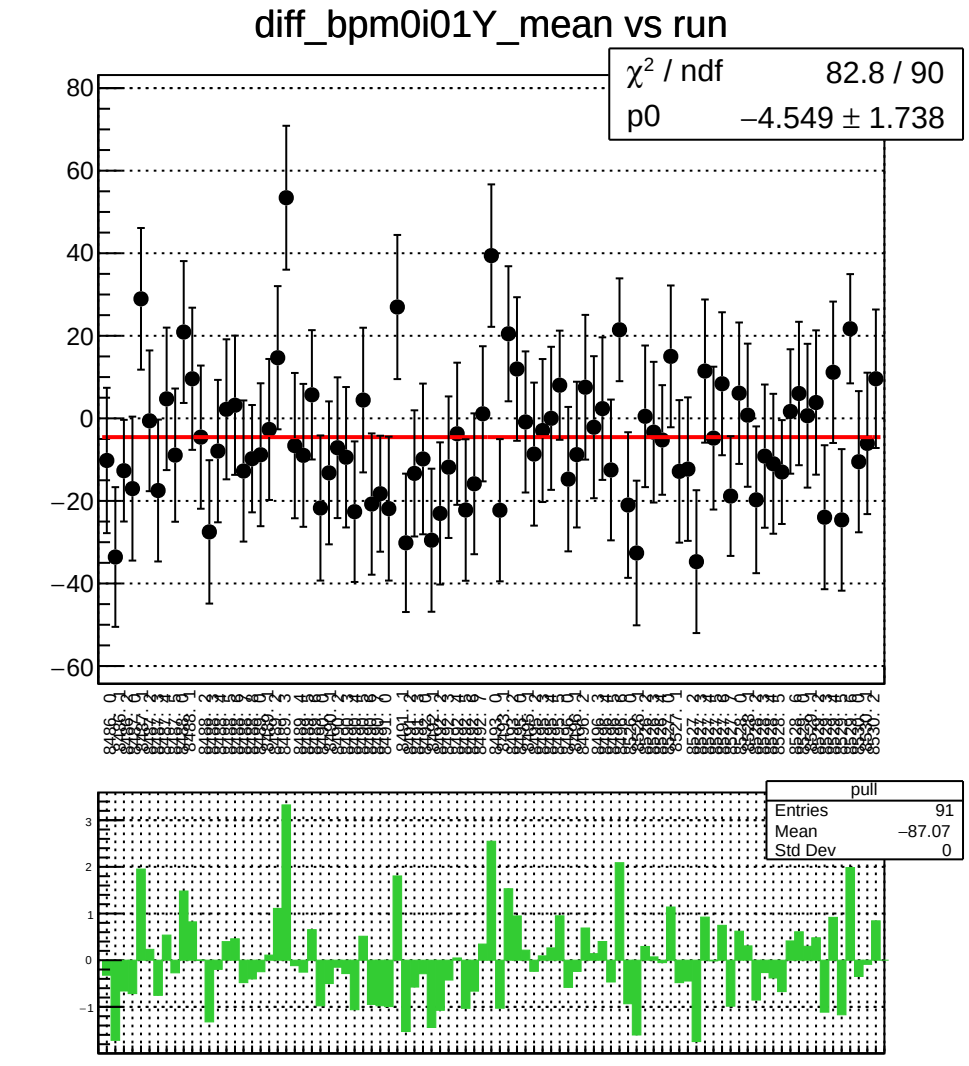

pull1D
Entries 91
Mean 0.01775
Std Dev 0.958
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

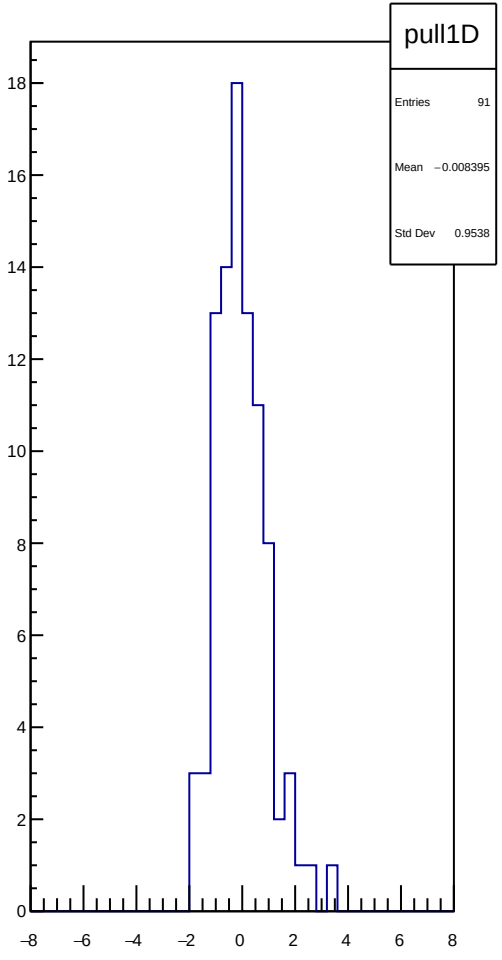

diff_cav4dY_rms vs run
×10^3
χ^2 / ndf 1.046e+04 / 90
p0 1.605e+05 ± 121.7
200
190
180
170
160
150
140

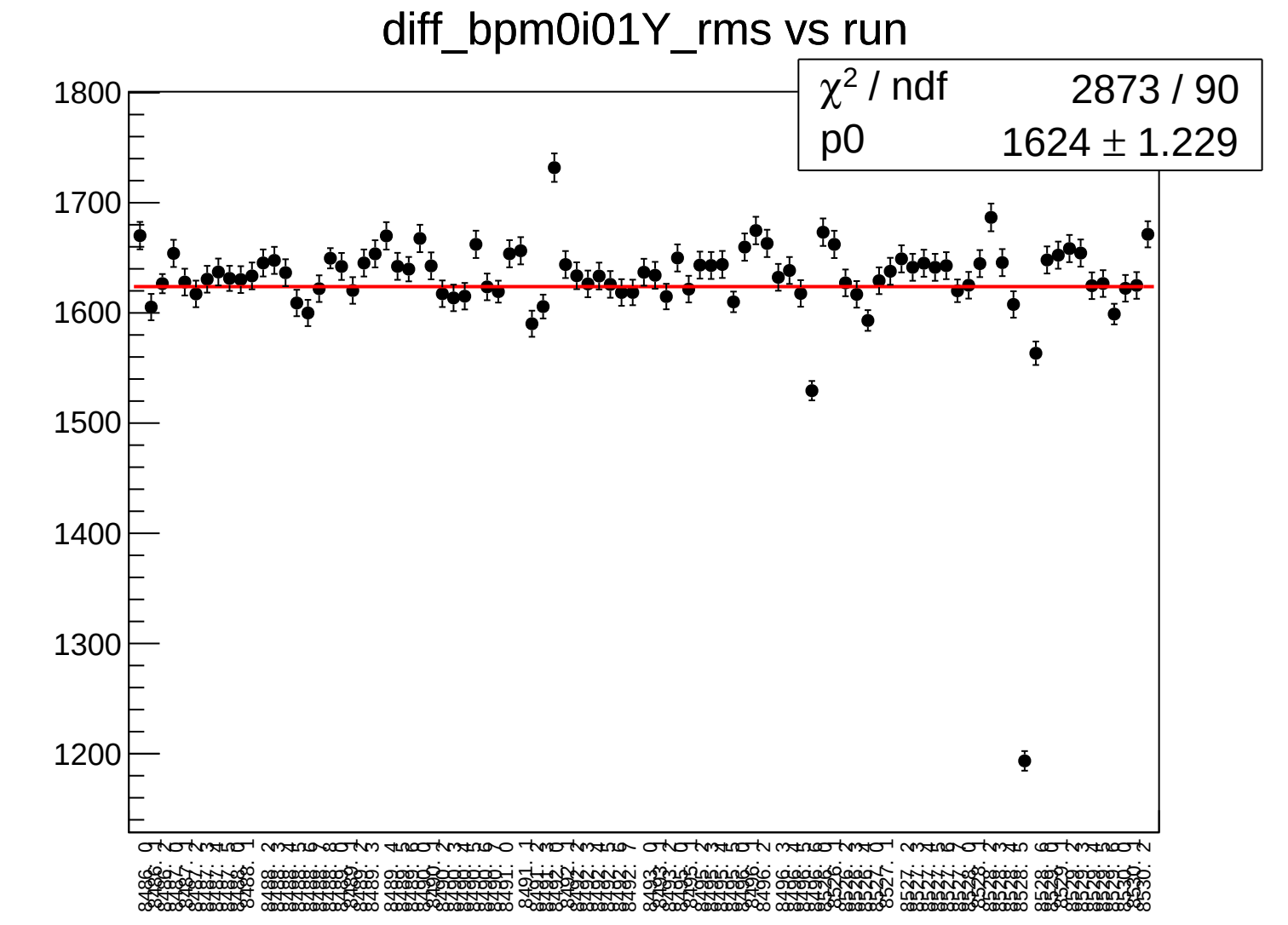

diff_bpm0i01X_mean vs run
χ² / ndf 97.81 / 90
p0 27.74 ± 1.899
pull
Entries 91
Mean 124.4
Std Dev 0

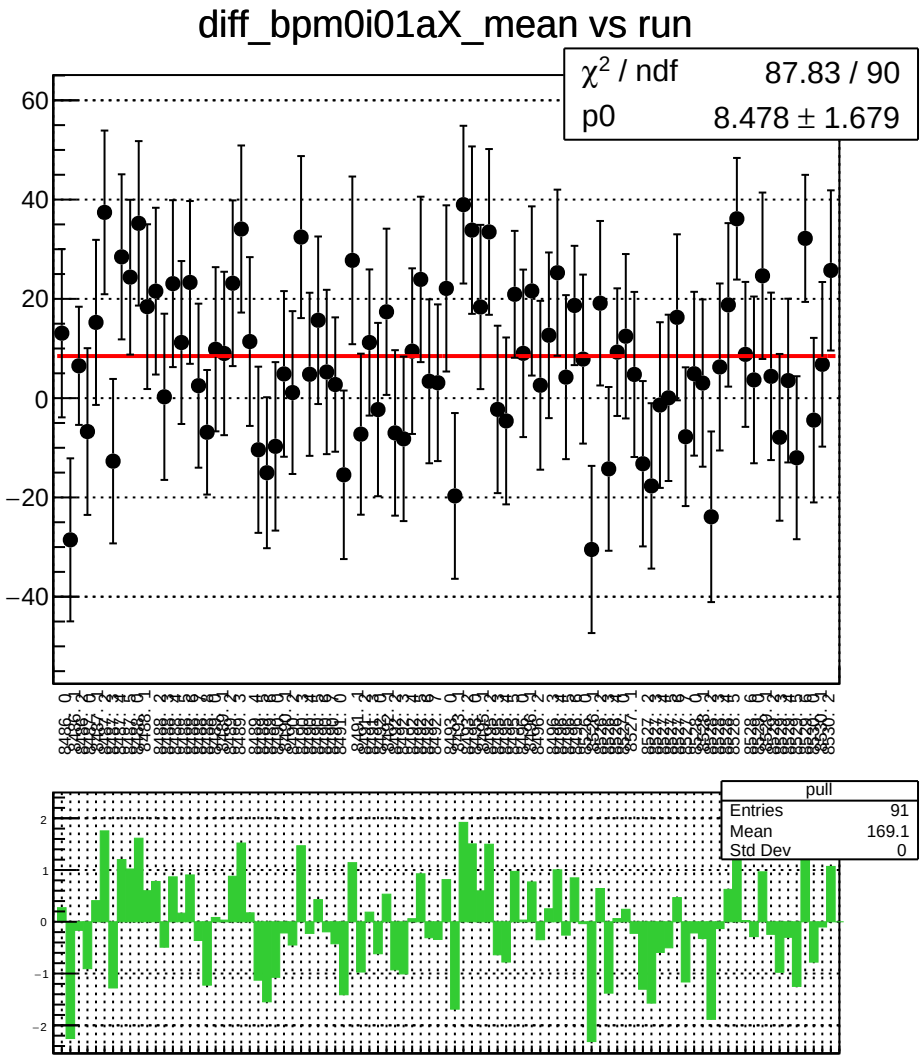

pull1D
Entries 91
Mean −0.0149
Std Dev 1.037

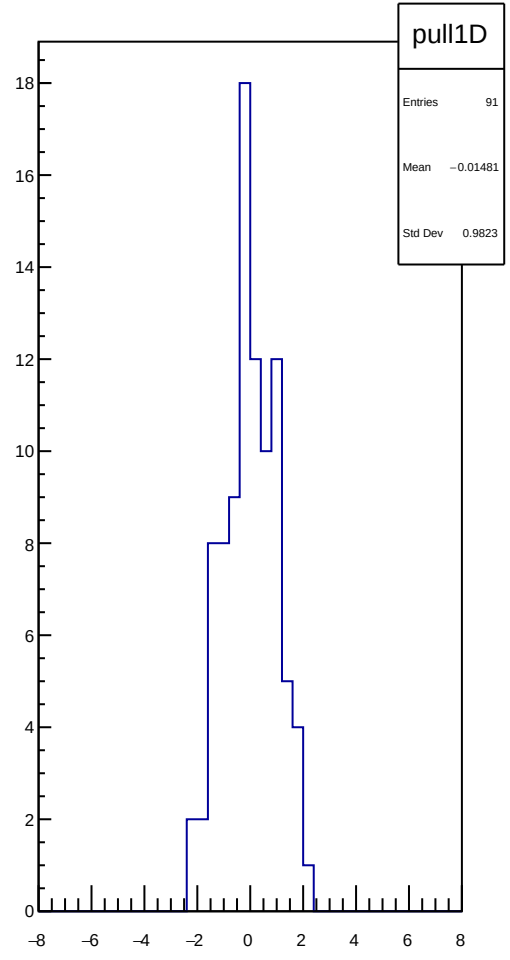

diff_bpm0i01X_rms vs run
χ² / ndf 3110 / 90
p0 1774 ± 1.343
1900
1800
1700
1600
1500
1400
1300

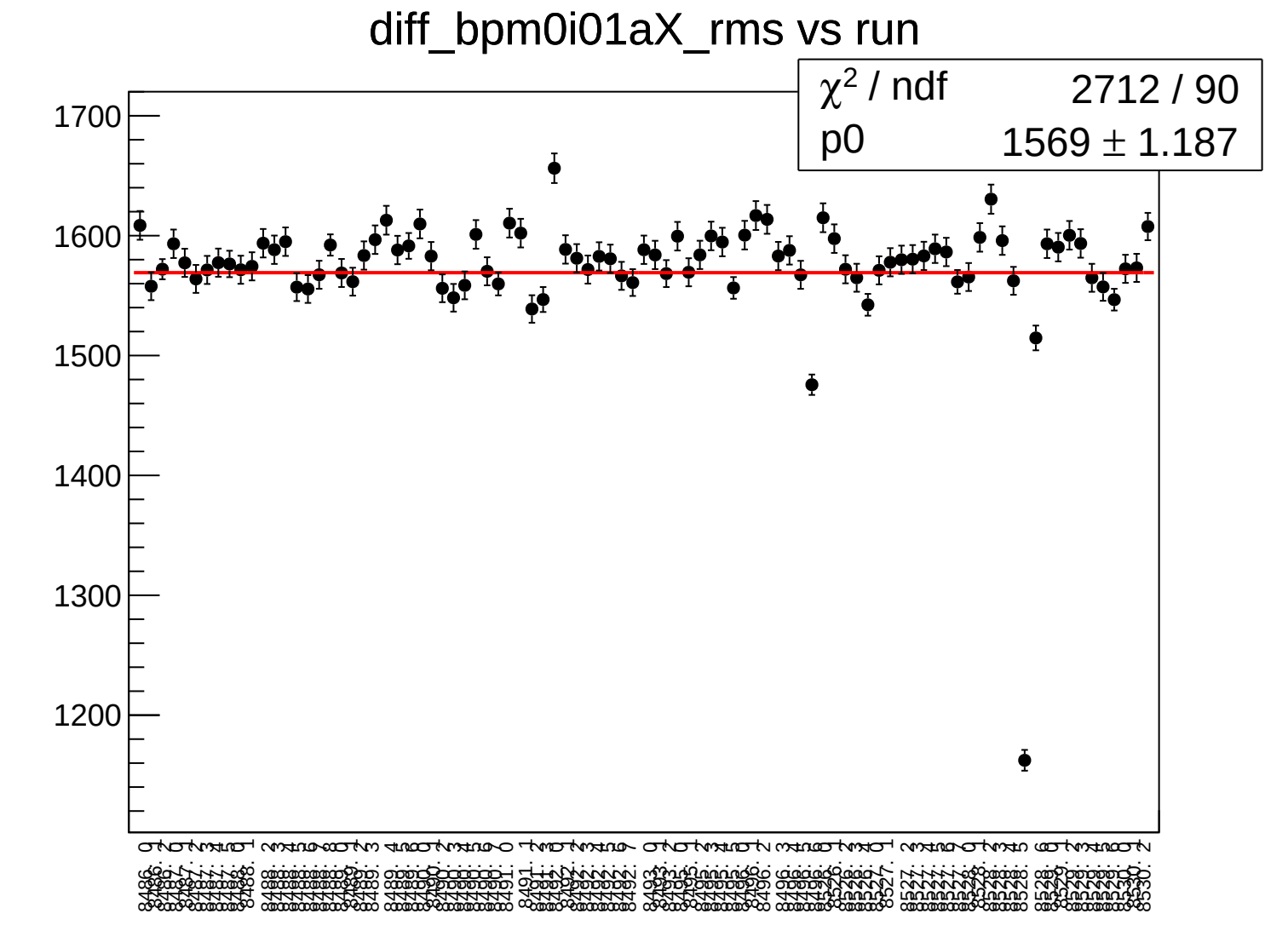

diff_bpm0i01Y_mean vs run
χ² / ndf 82.8 / 90
p0 −4.549 ± 1.738
pull
Entries 91
Mean −87.07
Std Dev 0

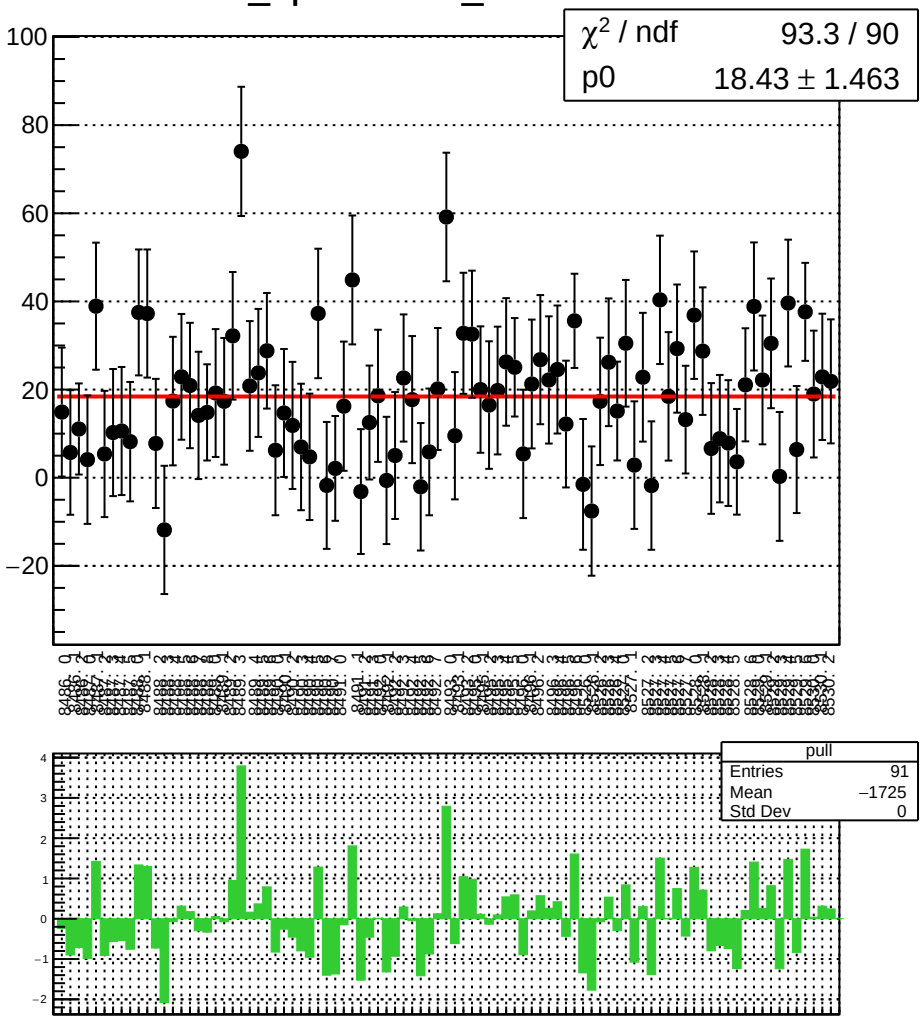

pull1D
Entries 91
Mean −0.008395
Std Dev 0.9538

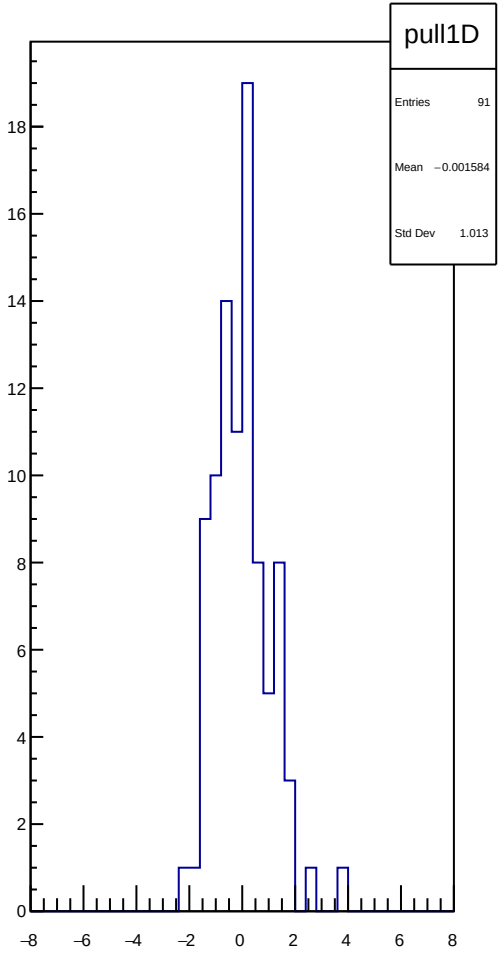

diff_bpm0i01Y_rms vs run
χ² / ndf 2873 / 90
p0 1624 ± 1.229
1800
1700
1600
1500
1400
1300
1200

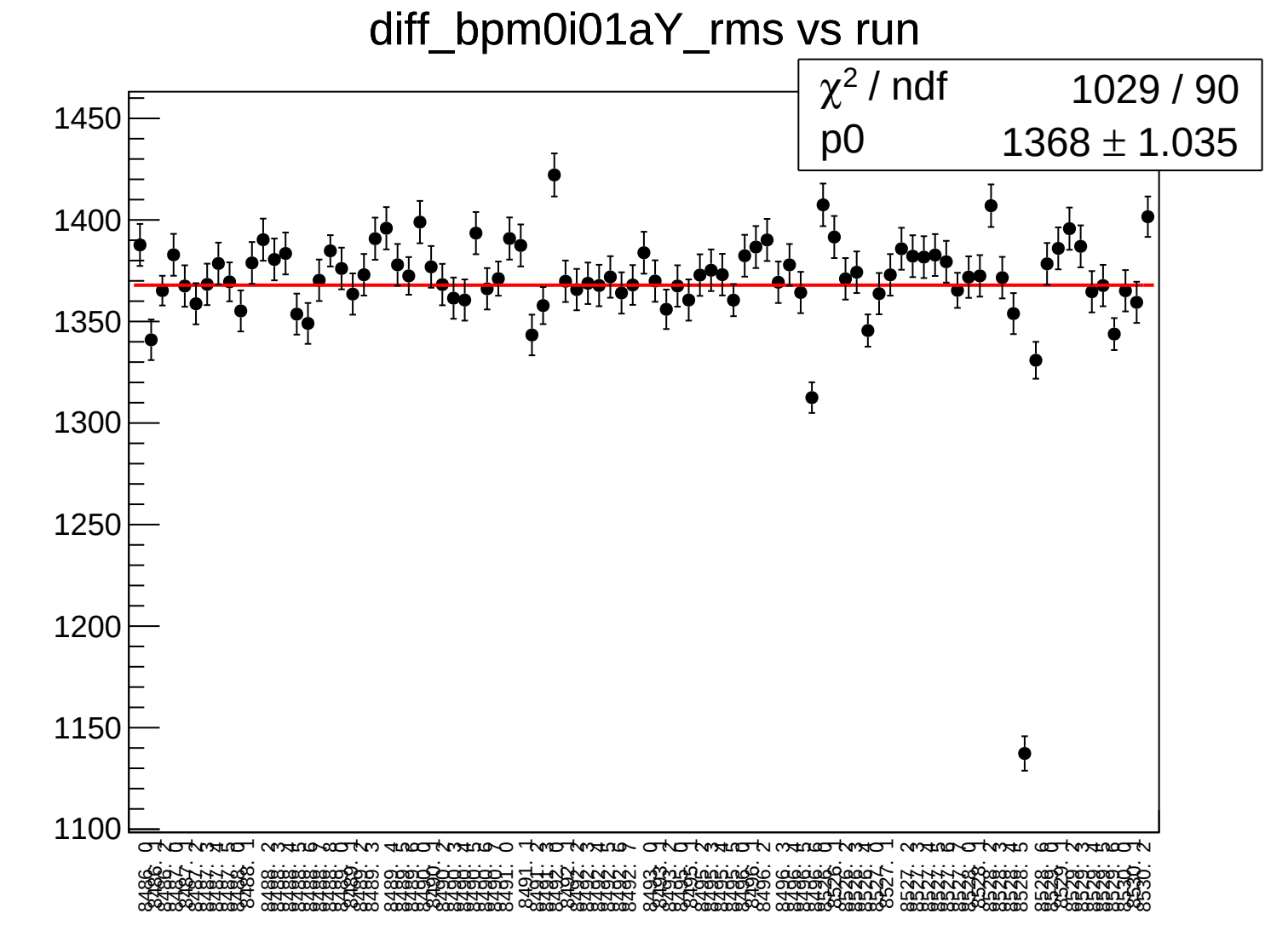

diff_bpm0i01aX_mean vs run
χ² / ndf 87.83 / 90
p0 8.478 ± 1.679
pull
Entries 91
Mean 169.1
Std Dev 0

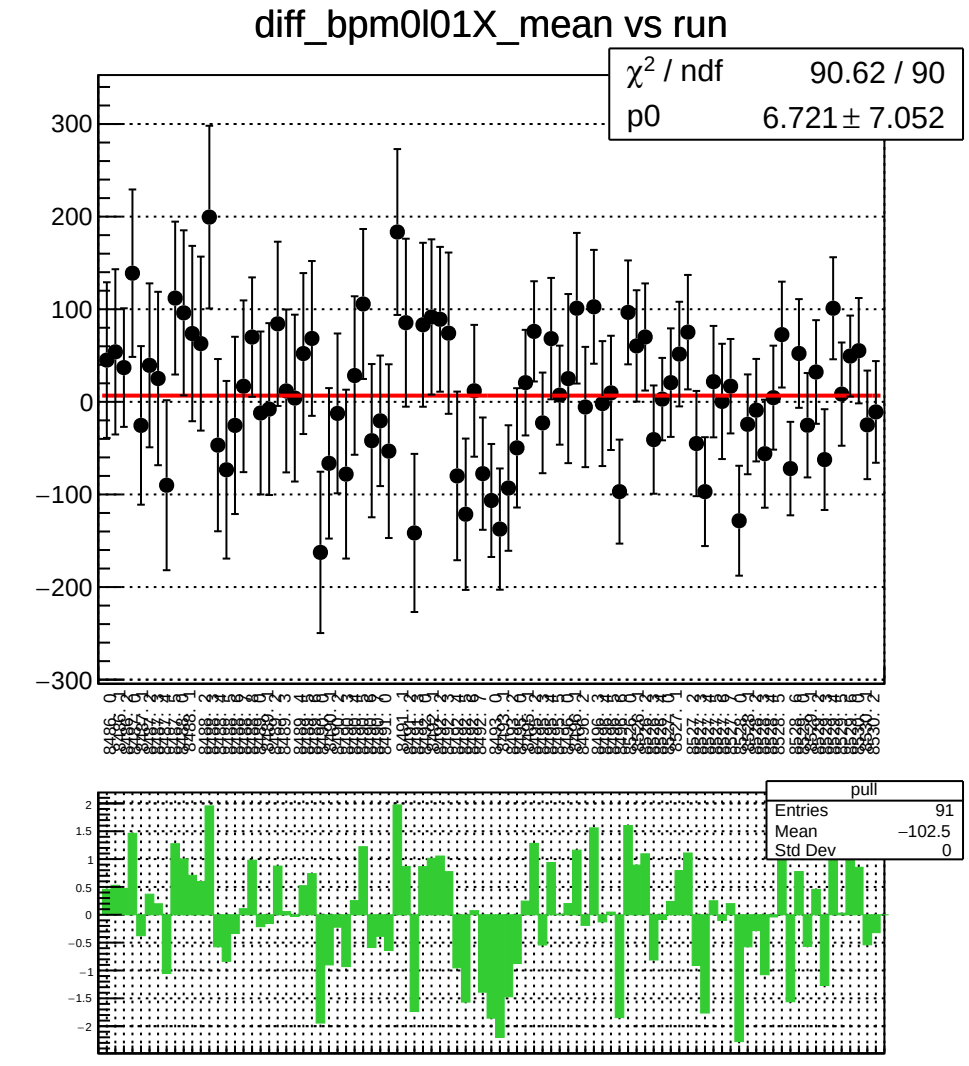

pull1D
Entries 91
Mean −0.01481
Std Dev 0.9823

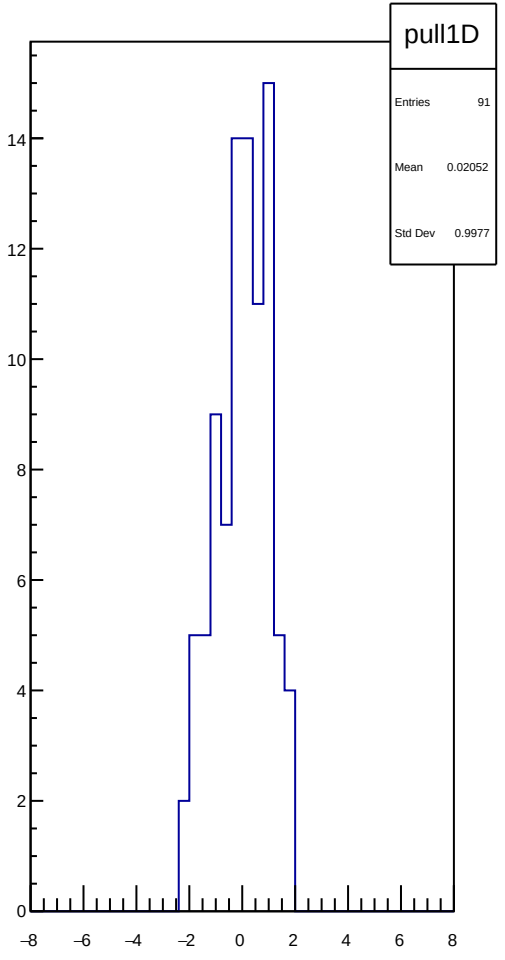

diff_bpm0i01aX_rms vs run
χ² / ndf 2712 / 90
p0 1569 ± 1.187
1700
1600
1500
1400
1300
1200

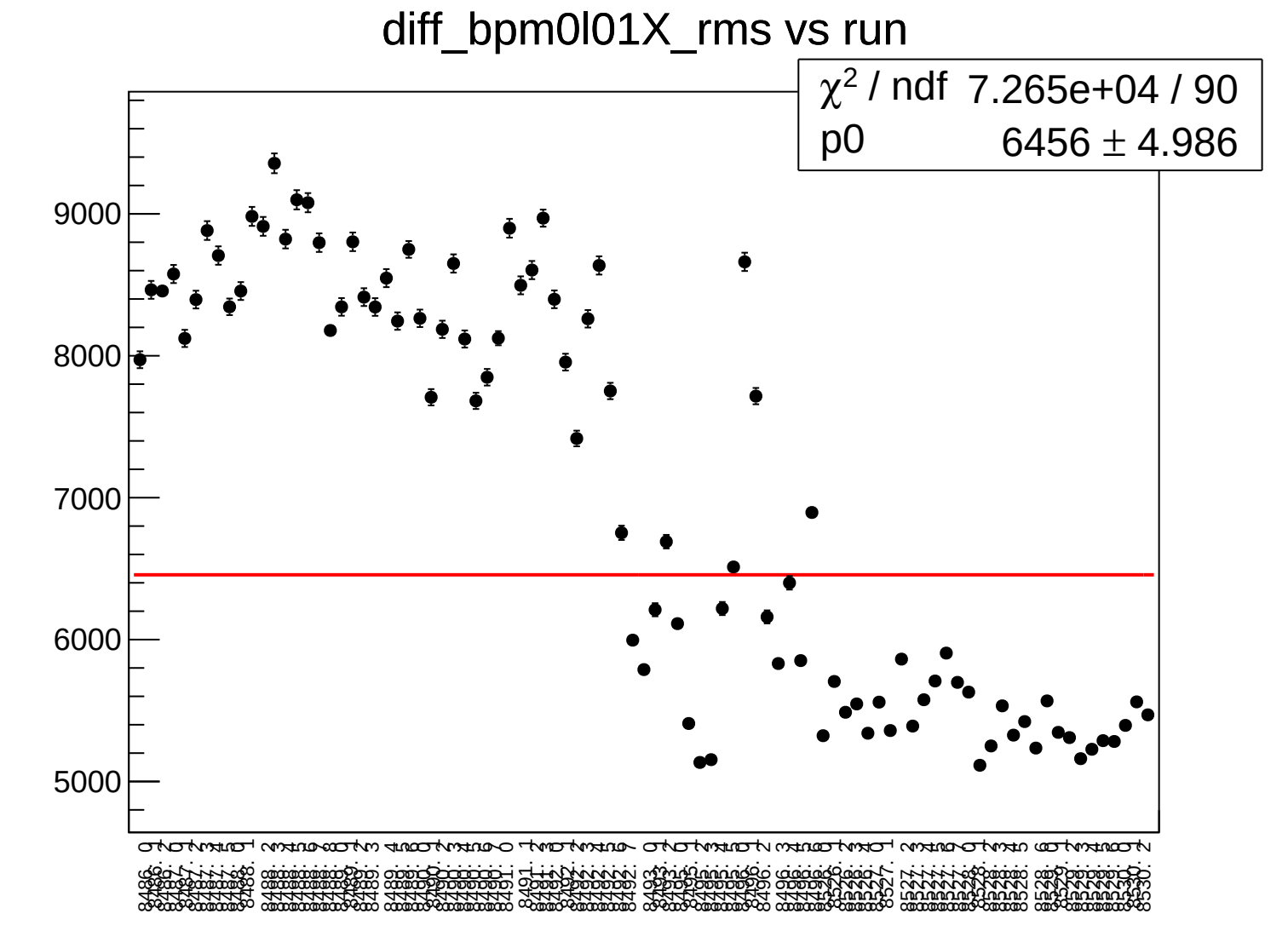

diff_bpm0i01aY_mean vs run
χ^2 / ndf 93.3 / 90
p0 18.43 ± 1.463
pull
Entries 91
Mean −1725
Std Dev 0

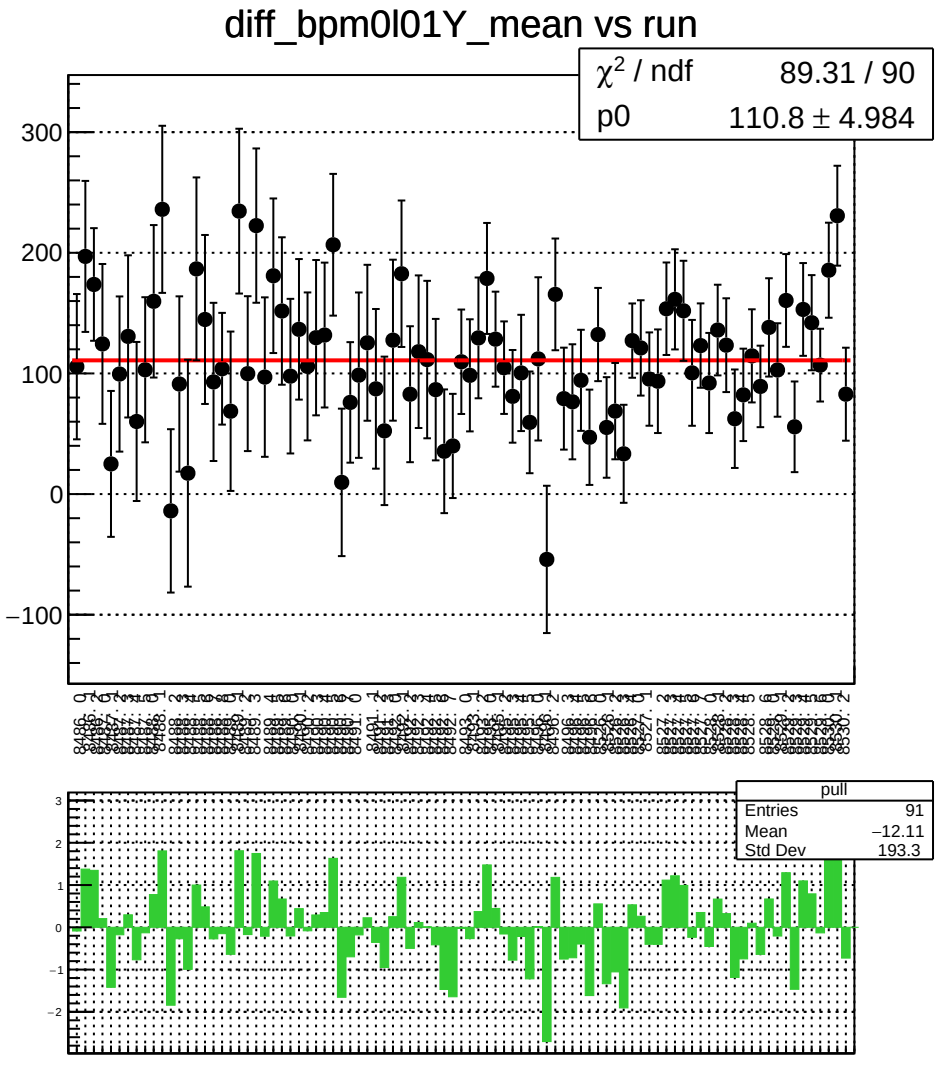

pull1D
Entries 91
Mean −0.001584
Std Dev 1.013

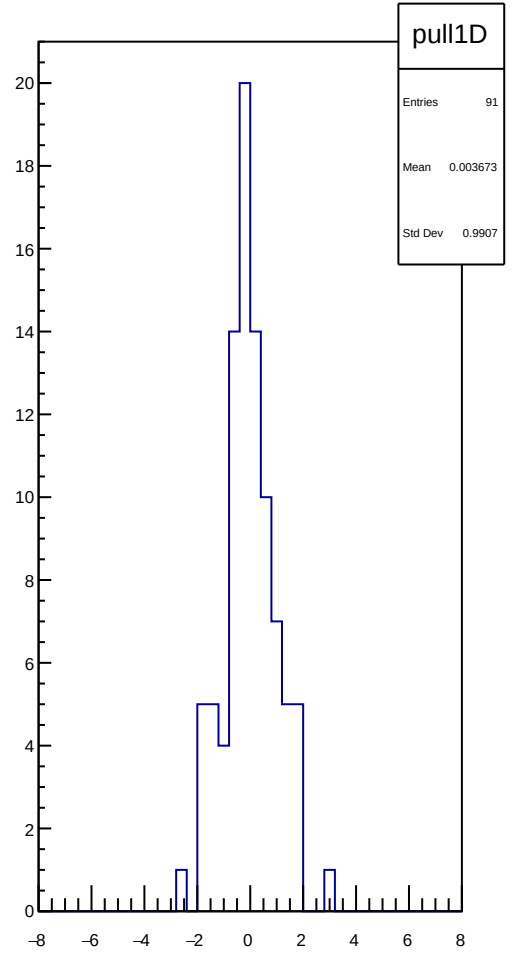

diff_bpm0i01aY_rms vs run
χ² / ndf 1029 / 90
p0 1368 ± 1.035
1450
1400
1350
1300
1250
1200
1150
1100

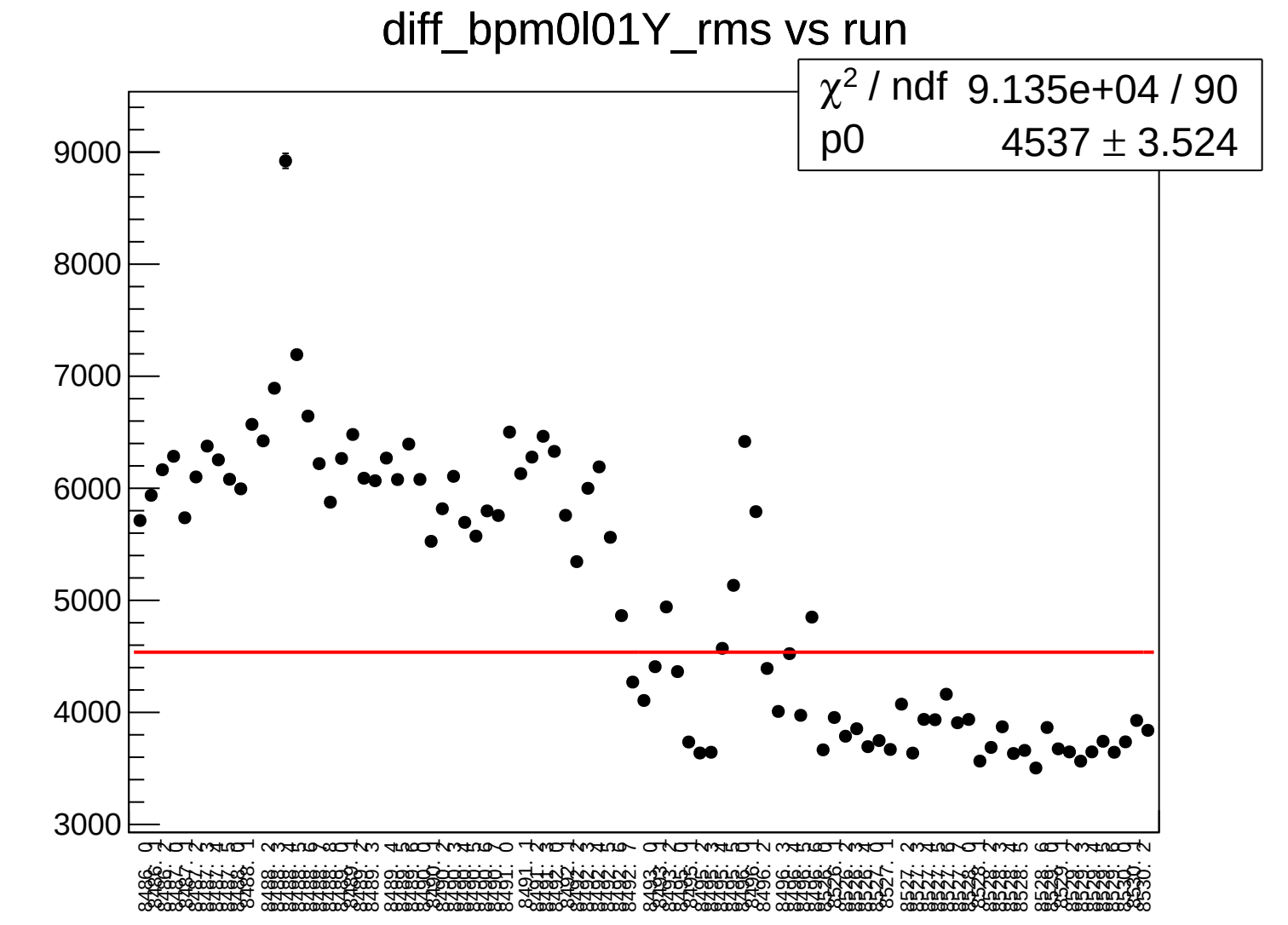

diff_bpm0l01X_mean vs run
χ² / ndf 90.62 / 90
p0 6.721 ± 7.052
pull
Entries 91
Mean −102.5
Std Dev 0

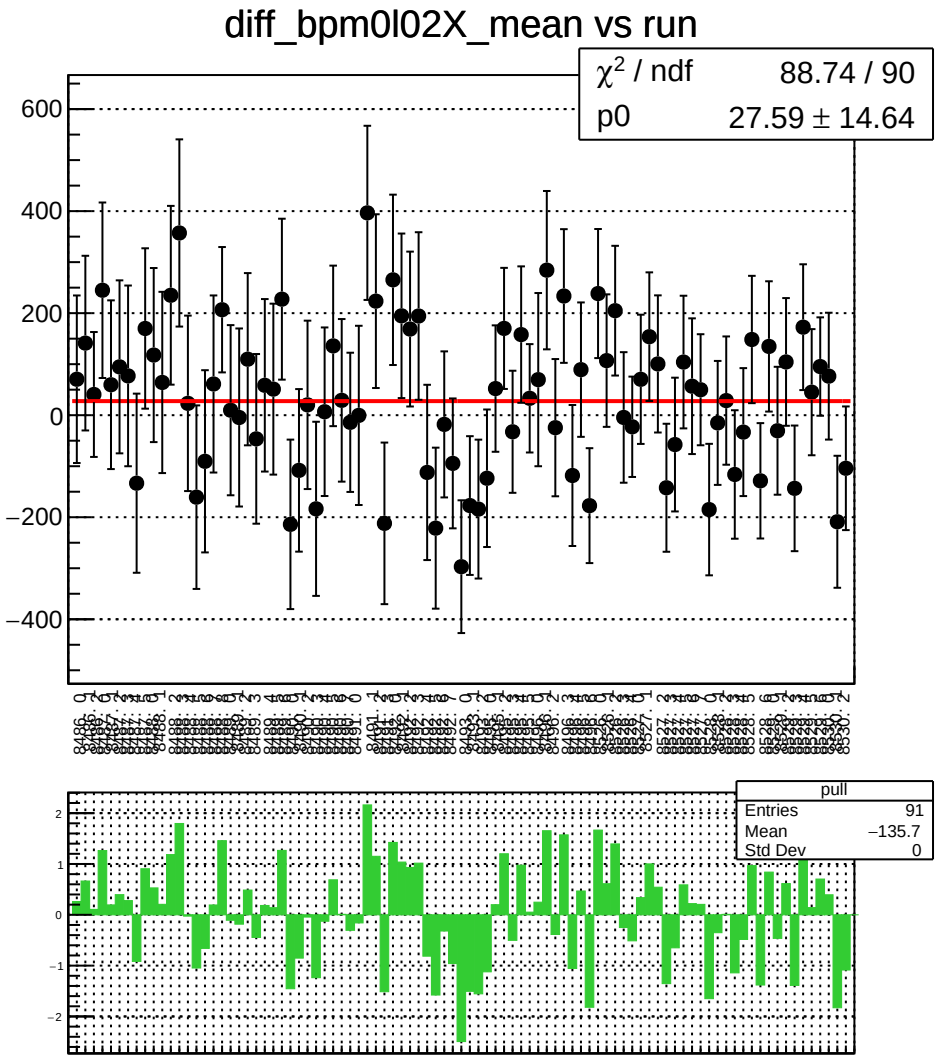

pull1D
Entries 91
Mean 0.02052
Std Dev 0.9977

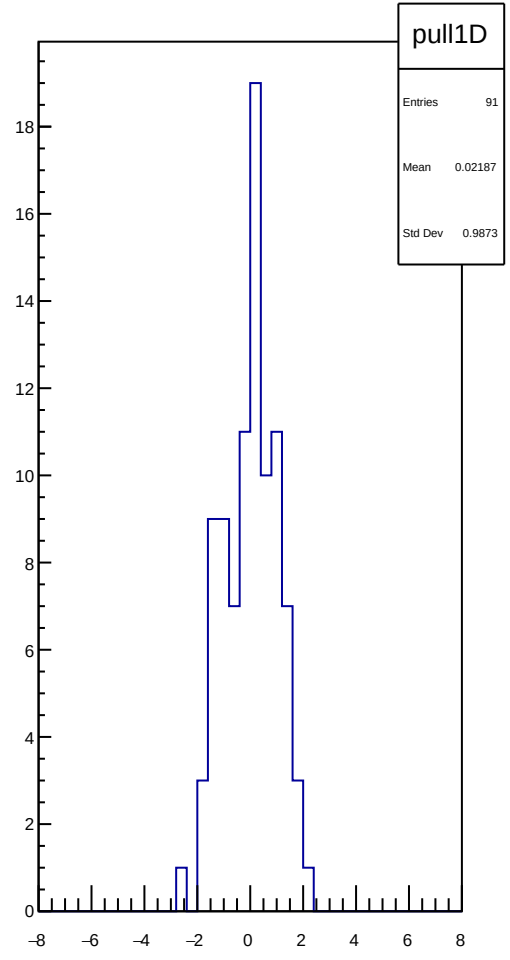

diff_bpm0l01X_rms vs run
χ^2 / ndf 7.265e+04 / 90
p0 6456 ± 4.986
9000
8000
7000
6000
5000

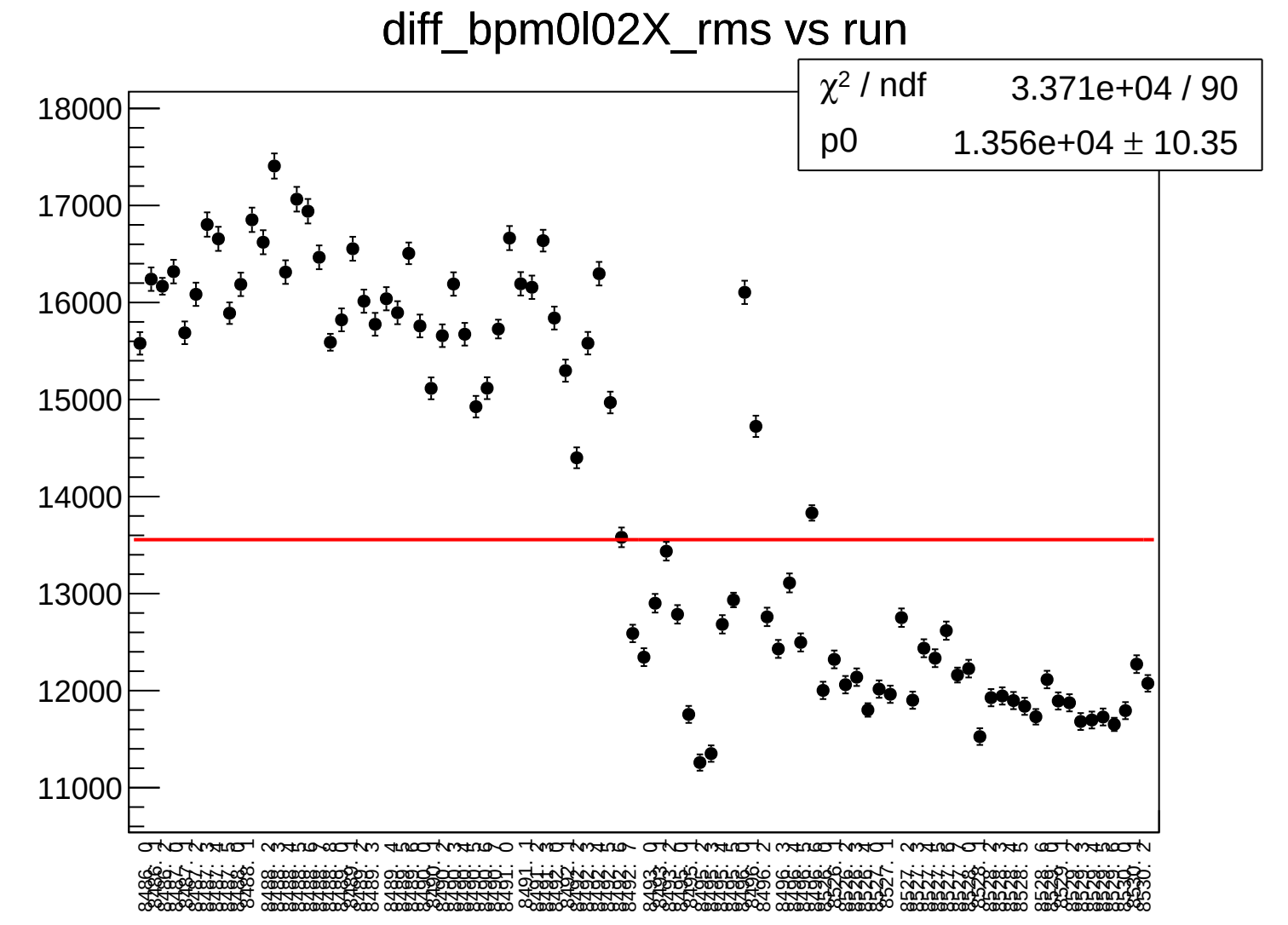

diff_bpm0l01Y_mean vs run
χ² / ndf 89.31 / 90
p0 110.8 ± 4.984
300
200
100
0
−100
pull
Entries 91
Mean −12.11
Std Dev 193.3
3
2
1
0
−1
−2

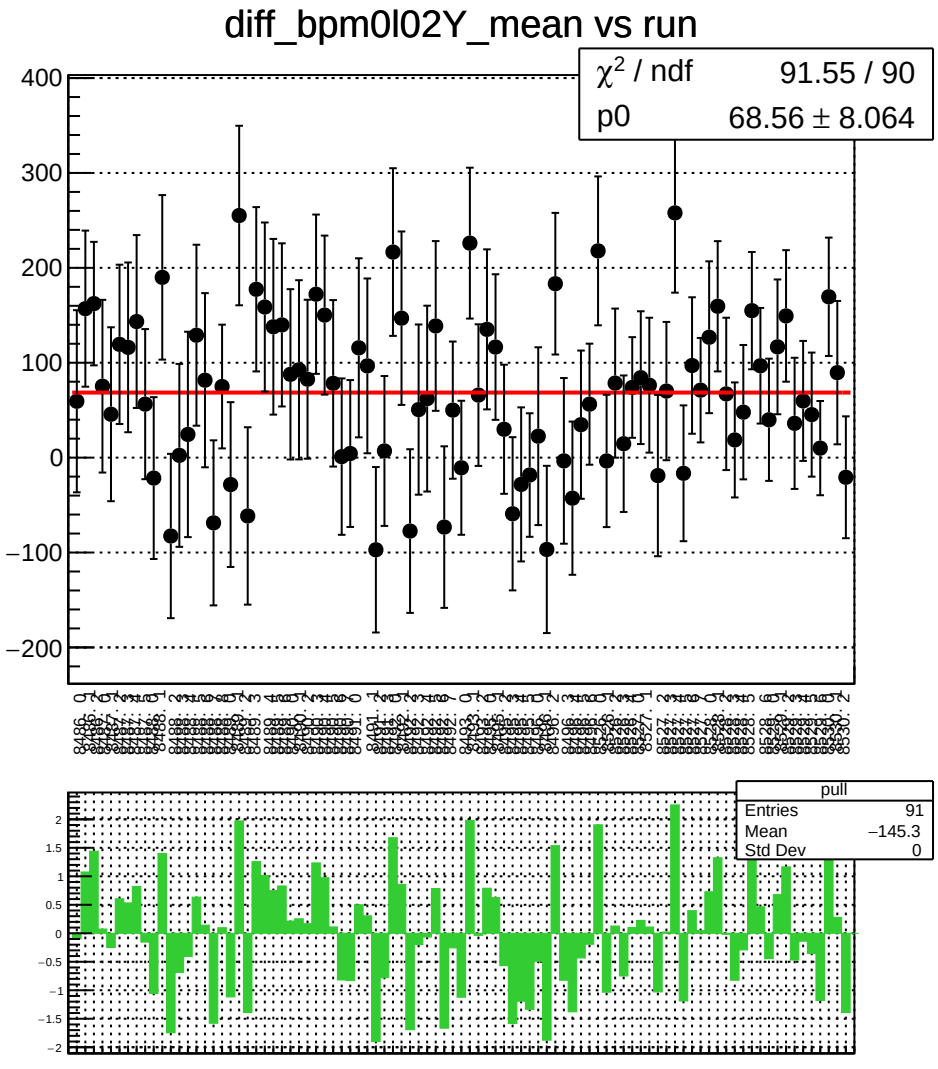

pull1D
Entries 91
Mean 0.003673
Std Dev 0.9907
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

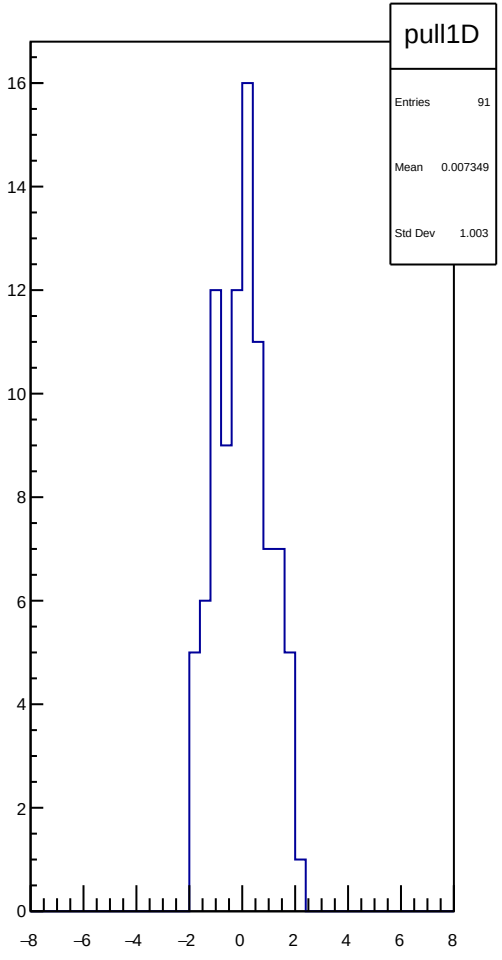

diff_bpm0l01Y_rms vs run
χ^2 / ndf 9.135e+04 / 90
p0 4537 ± 3.524
9000
8000
7000
6000
5000
4000
3000

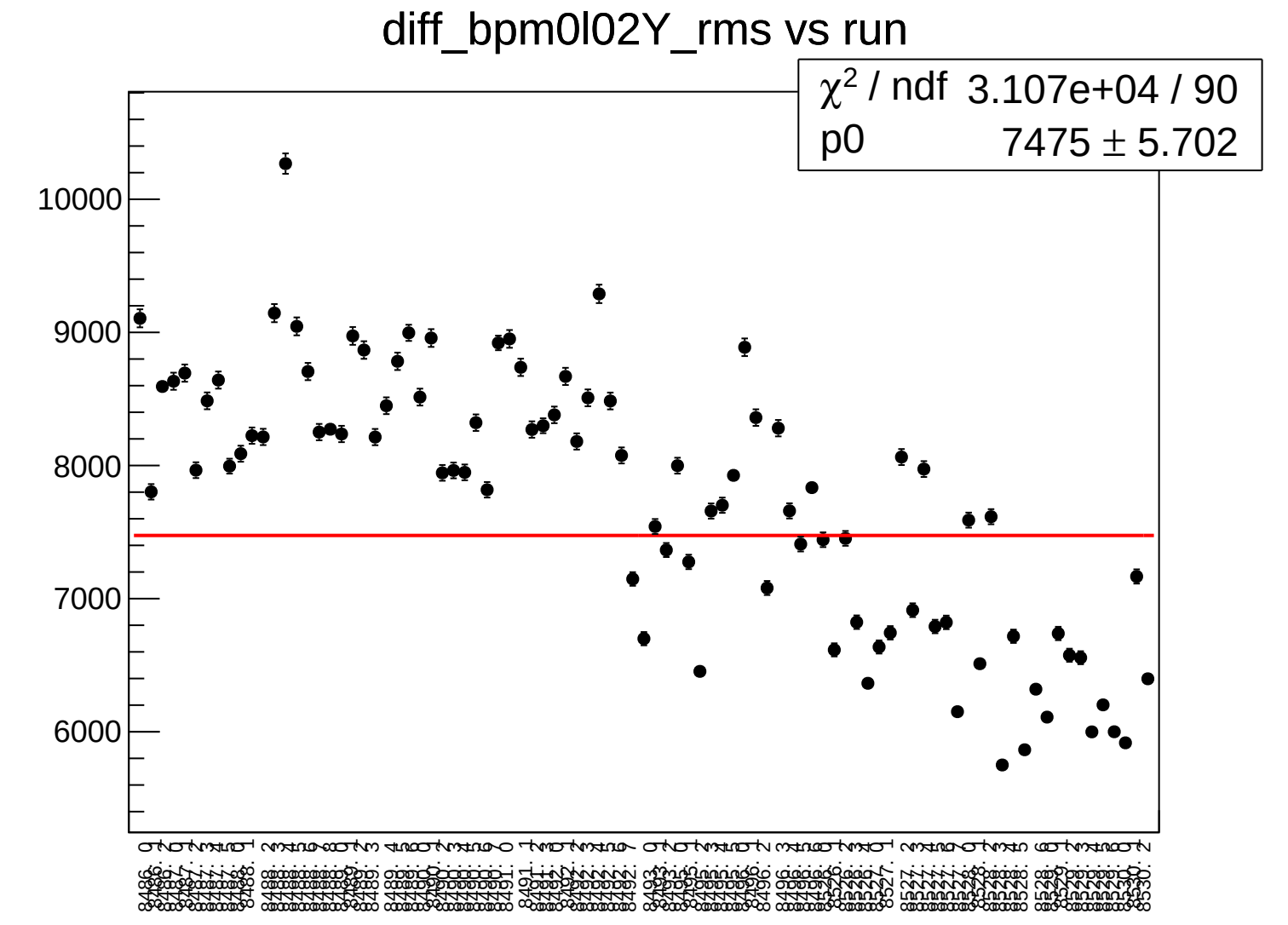

diff_bpm0l02X_mean vs run
χ² / ndf 88.74 / 90
p0 27.59 ± 14.64
600
400
200
0
−200
−400
pull
Entries 91
Mean −135.7
Std Dev 0
2
1
0
−1
−2

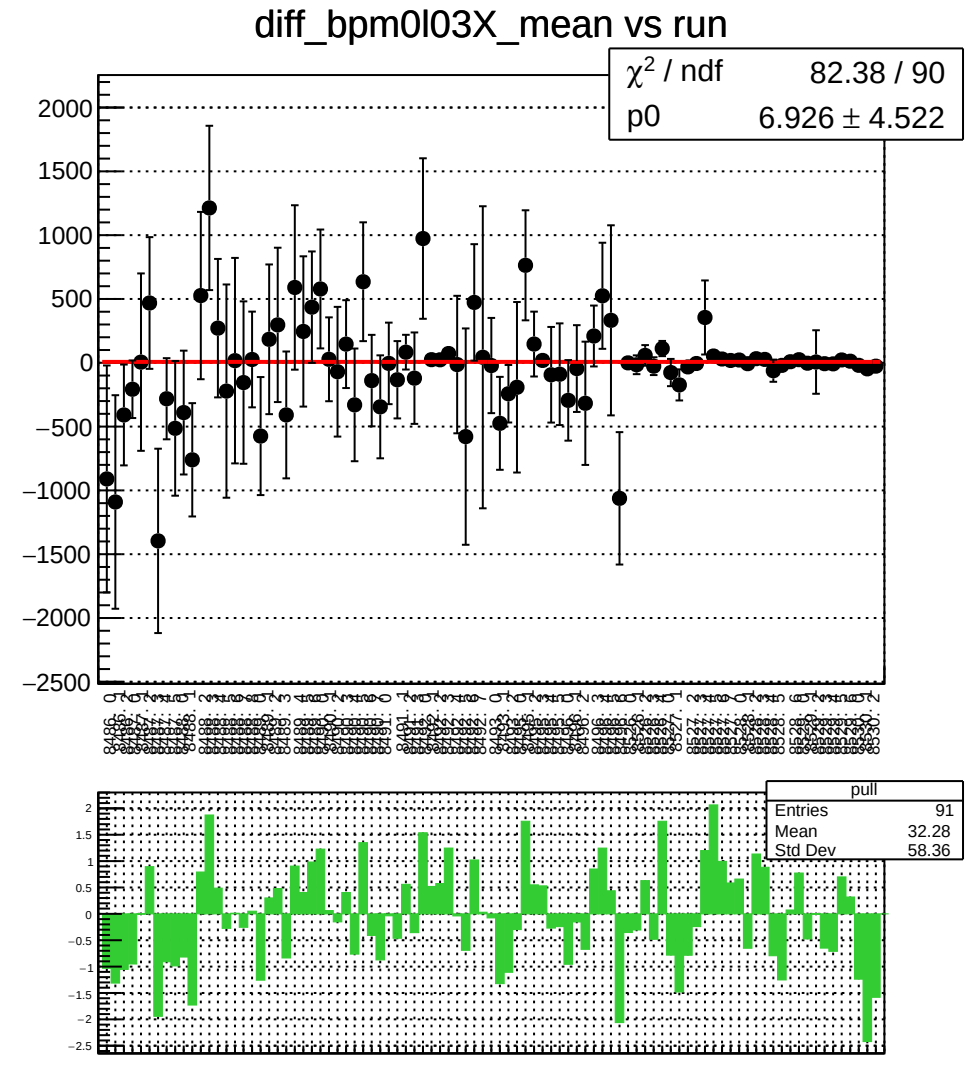

pull1D
Entries 91
Mean 0.02187
Std Dev 0.9873
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

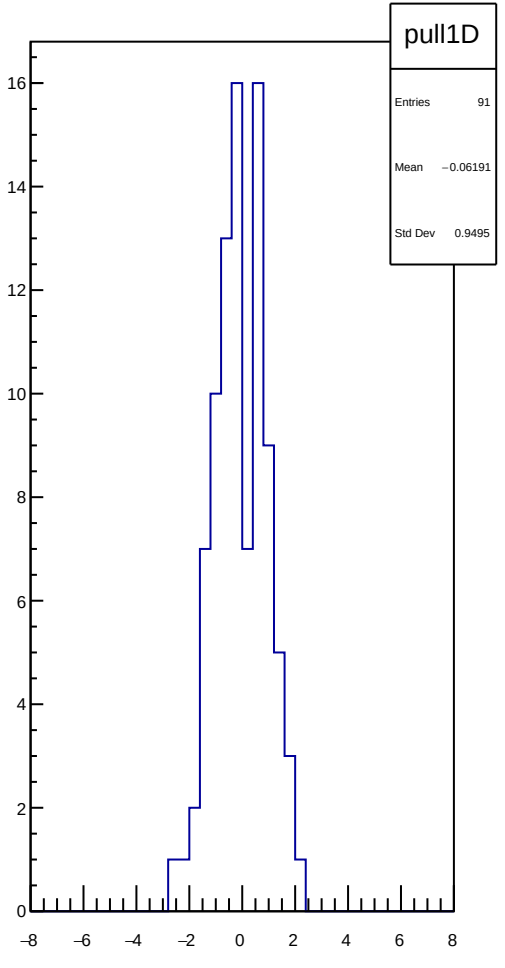

diff_bpm0l02X_rms vs run
χ² / ndf 3.371e+04 / 90
p0 1.356e+04 ± 10.35
18000
17000
16000
15000
14000
13000
12000
11000

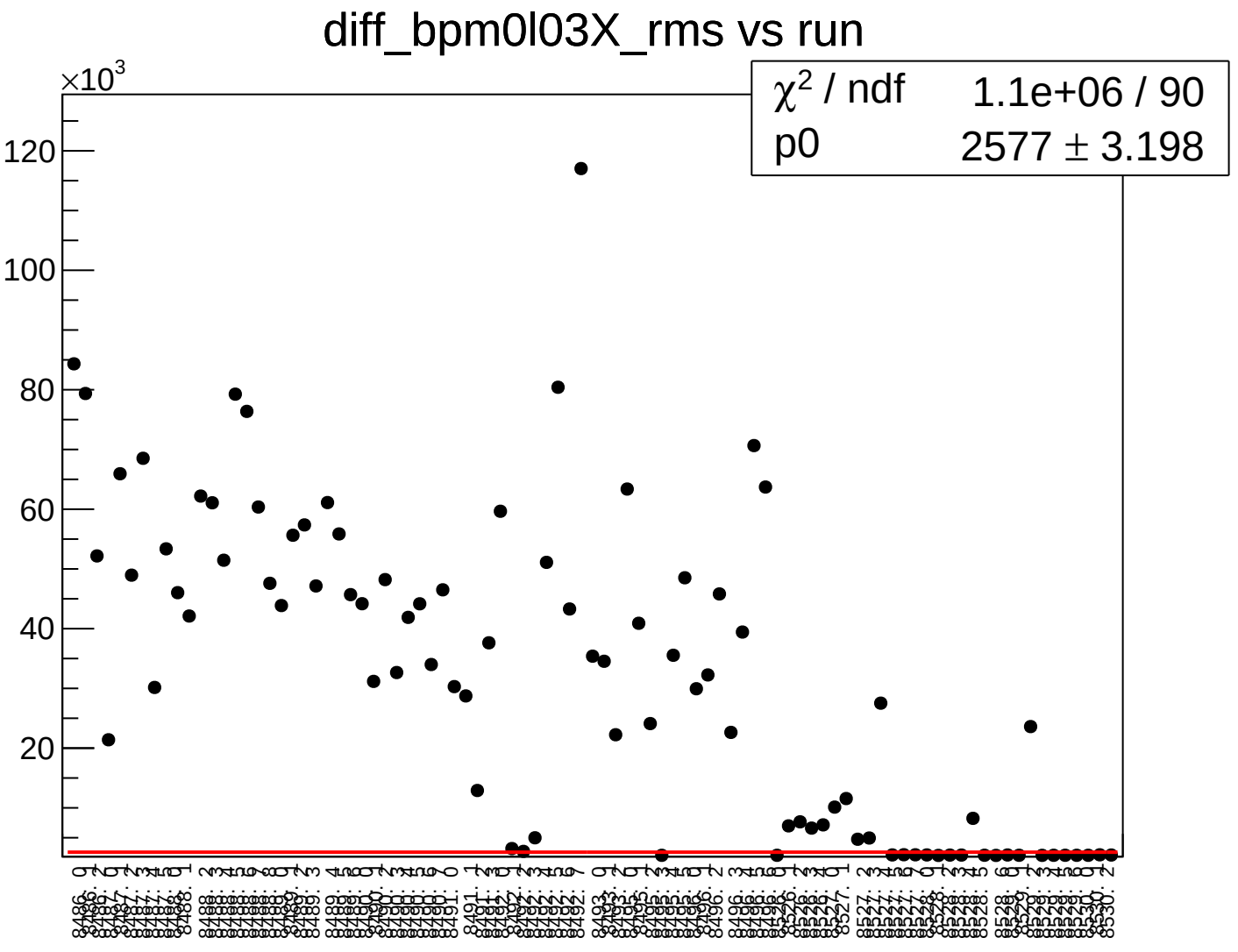

diff_bpm0l02Y_mean vs run
χ^2 / ndf 91.55 / 90
p0 68.56 ± 8.064
pull
Entries 91
Mean −145.3
Std Dev 0

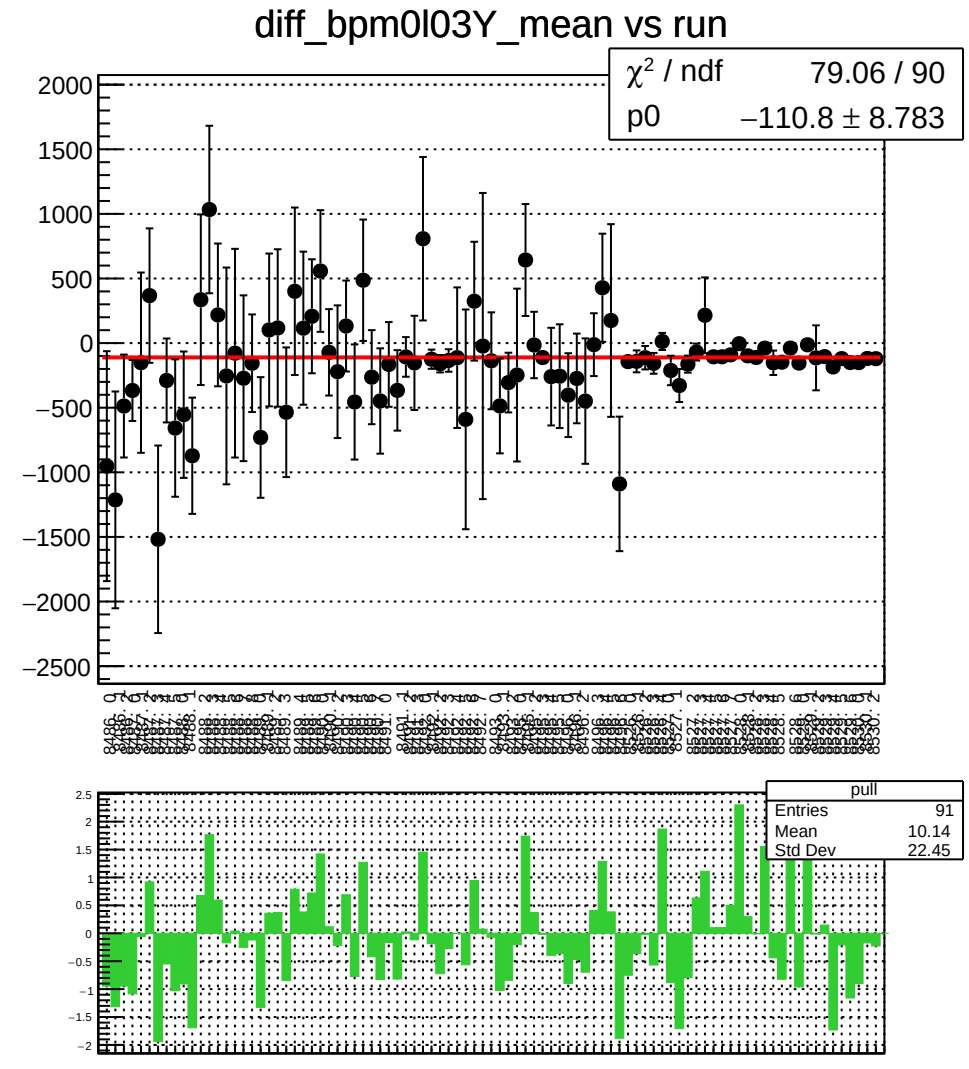

pull1D
Entries 91
Mean 0.007349
Std Dev 1.003

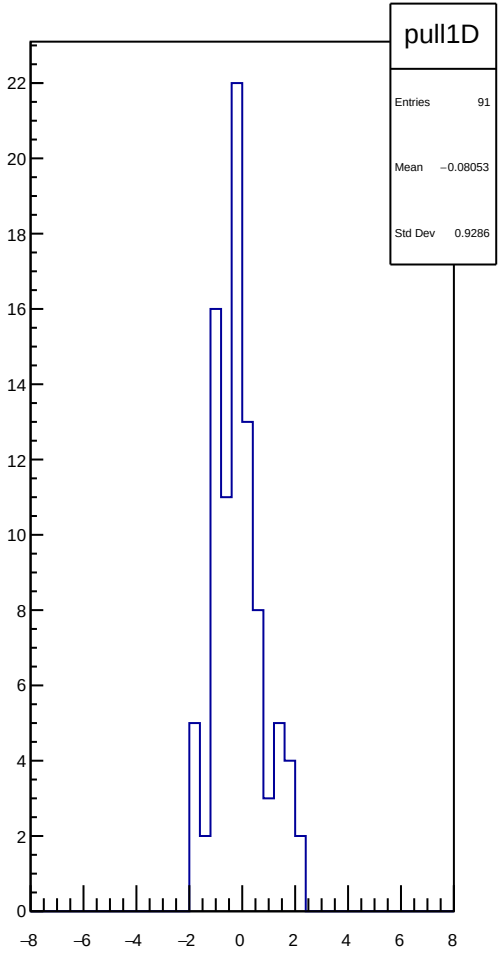

diff_bpm0l02Y_rms vs run
χ² / ndf 3.107e+04 / 90
p0 7475 ± 5.702
10000
9000
8000
7000
6000

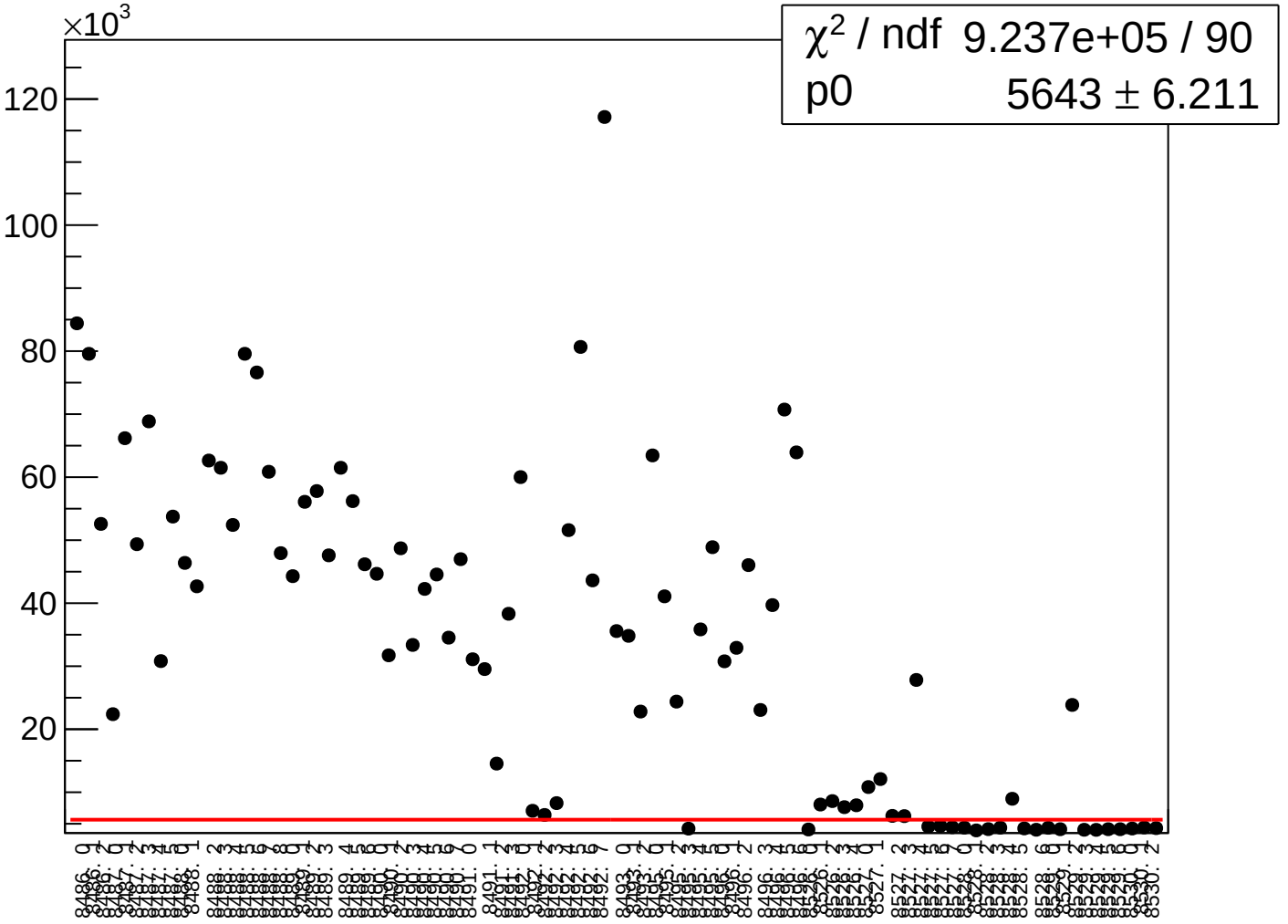

diff_bpm0l03X_mean vs run
χ² / ndf 82.38 / 90
p0 6.926 ± 4.522
pull
Entries 91
Mean 32.28
Std Dev 58.36

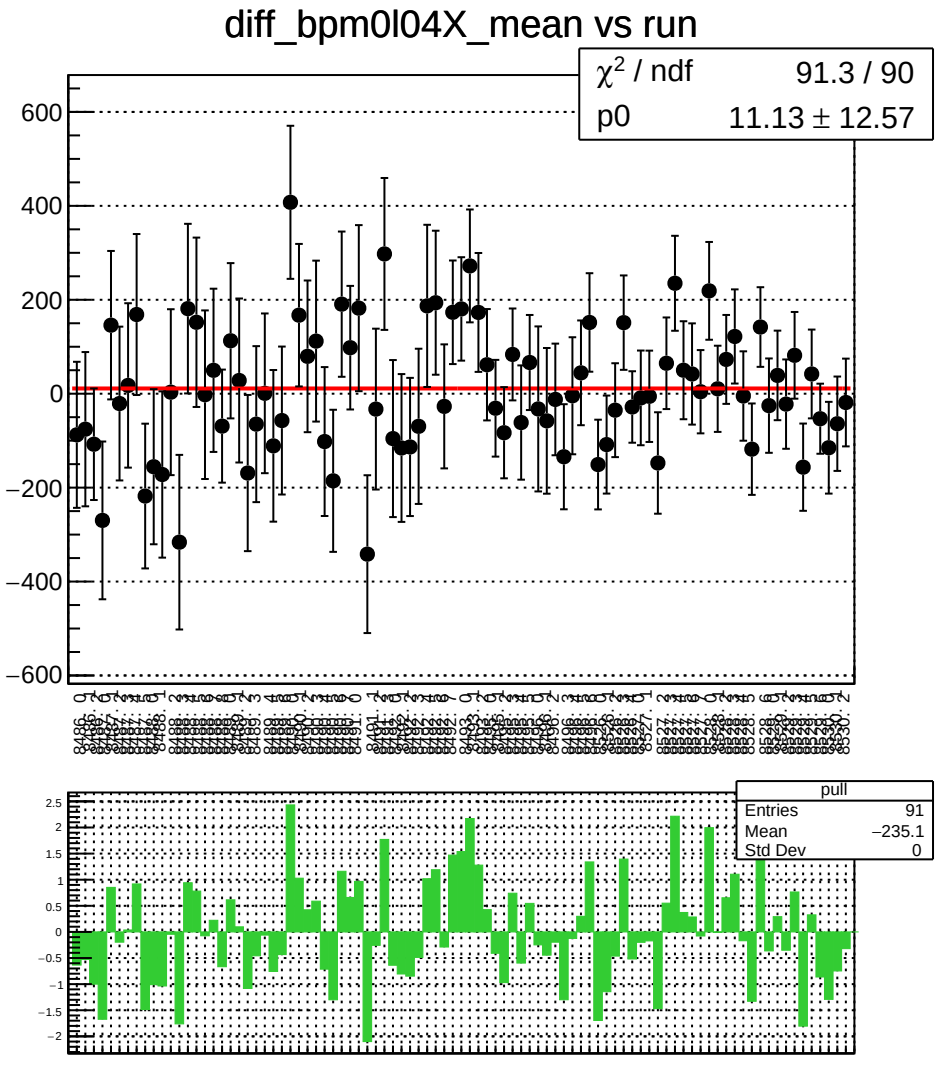

pull1D
Entries 91
Mean −0.06191
Std Dev 0.9495

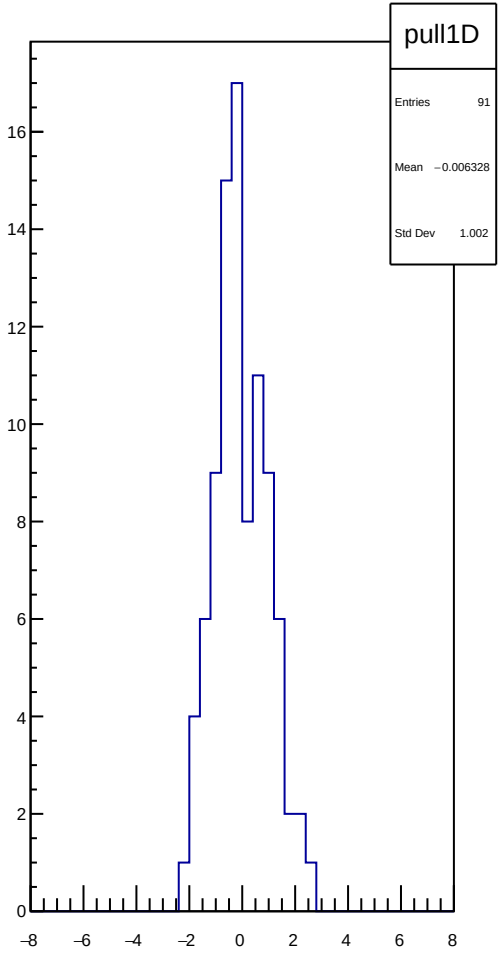

diff_bpm0l03X_rms vs run
×10^3
120
100
80
60
40
20
χ² / ndf 1.1e+06 / 90
p0 2577 ± 3.198

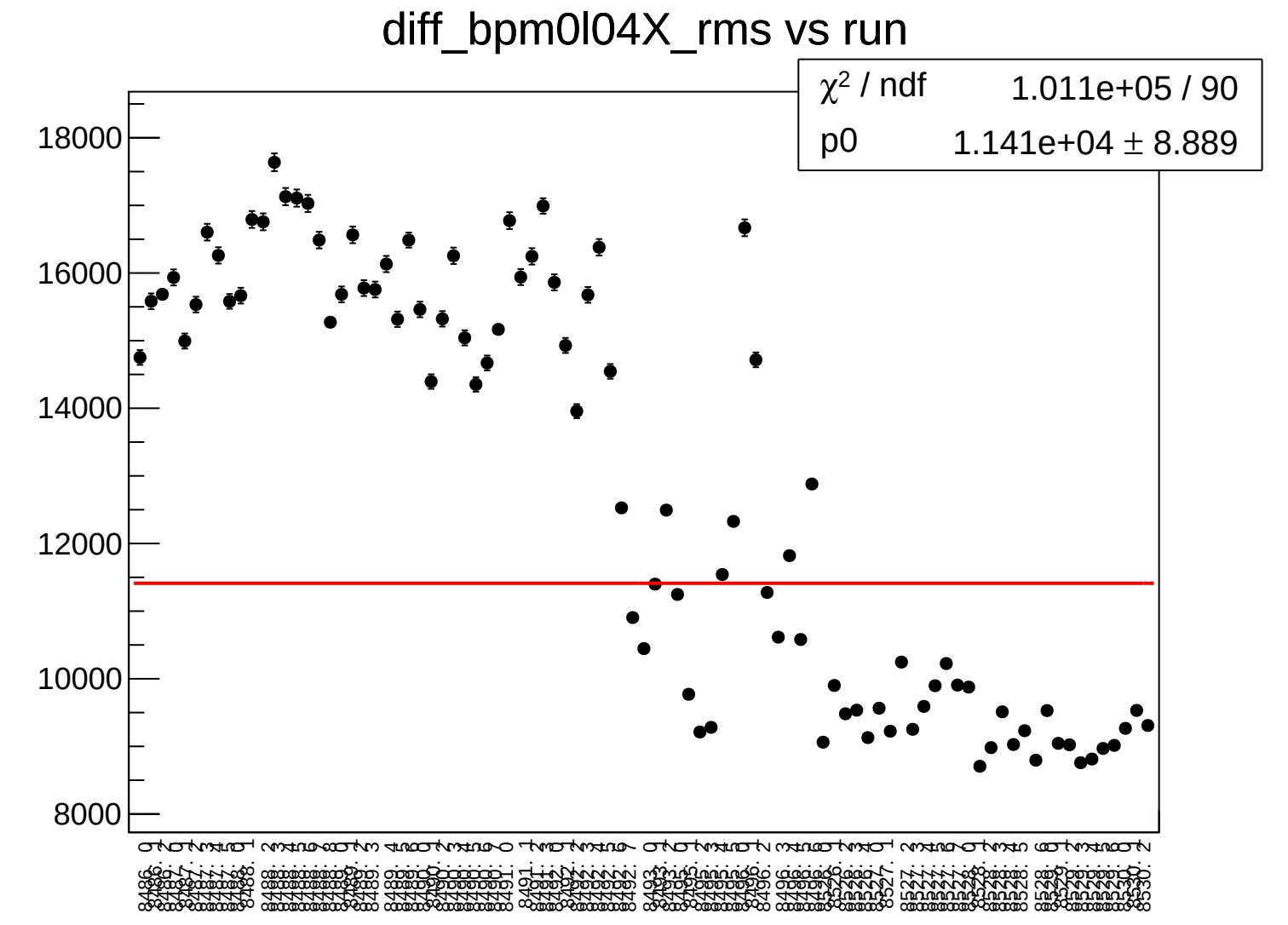

diff_bpm0l03Y_mean vs run
χ² / ndf 79.06 / 90
p0 −110.8 ± 8.783
pull
Entries 91
Mean 10.14
Std Dev 22.45

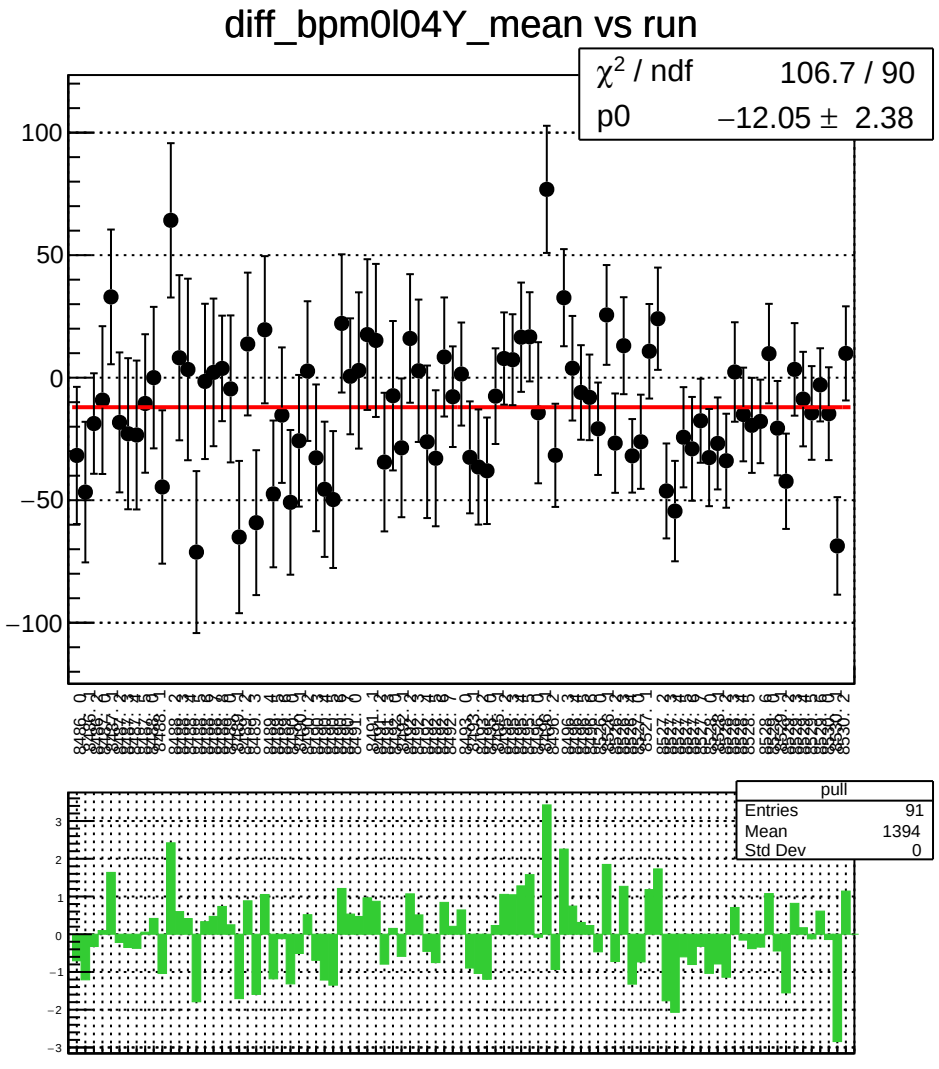

pull1D
Entries 91
Mean −0.08053
Std Dev 0.9286

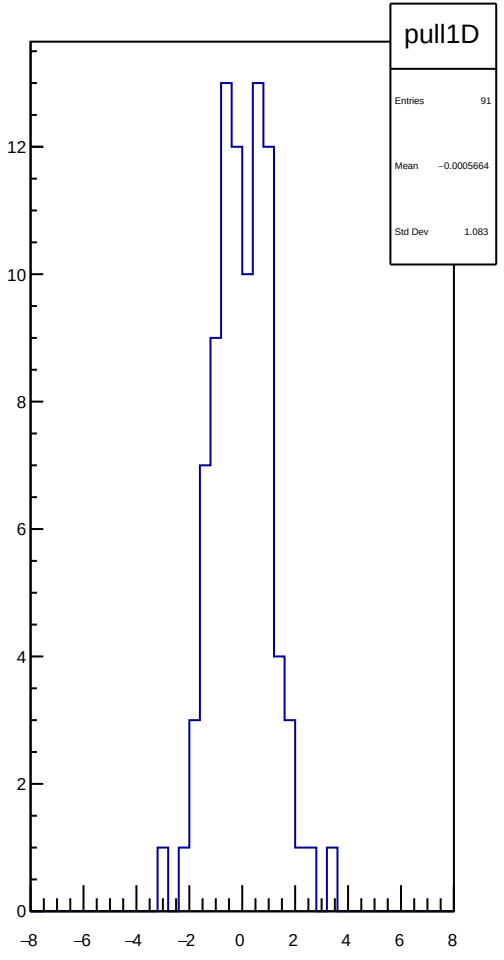

diff_bpm0l03Y_rms vs run
×10^3
120
100
80
60
40
20
χ² / ndf 9.237e+05 / 90
p0 5643 ± 6.211

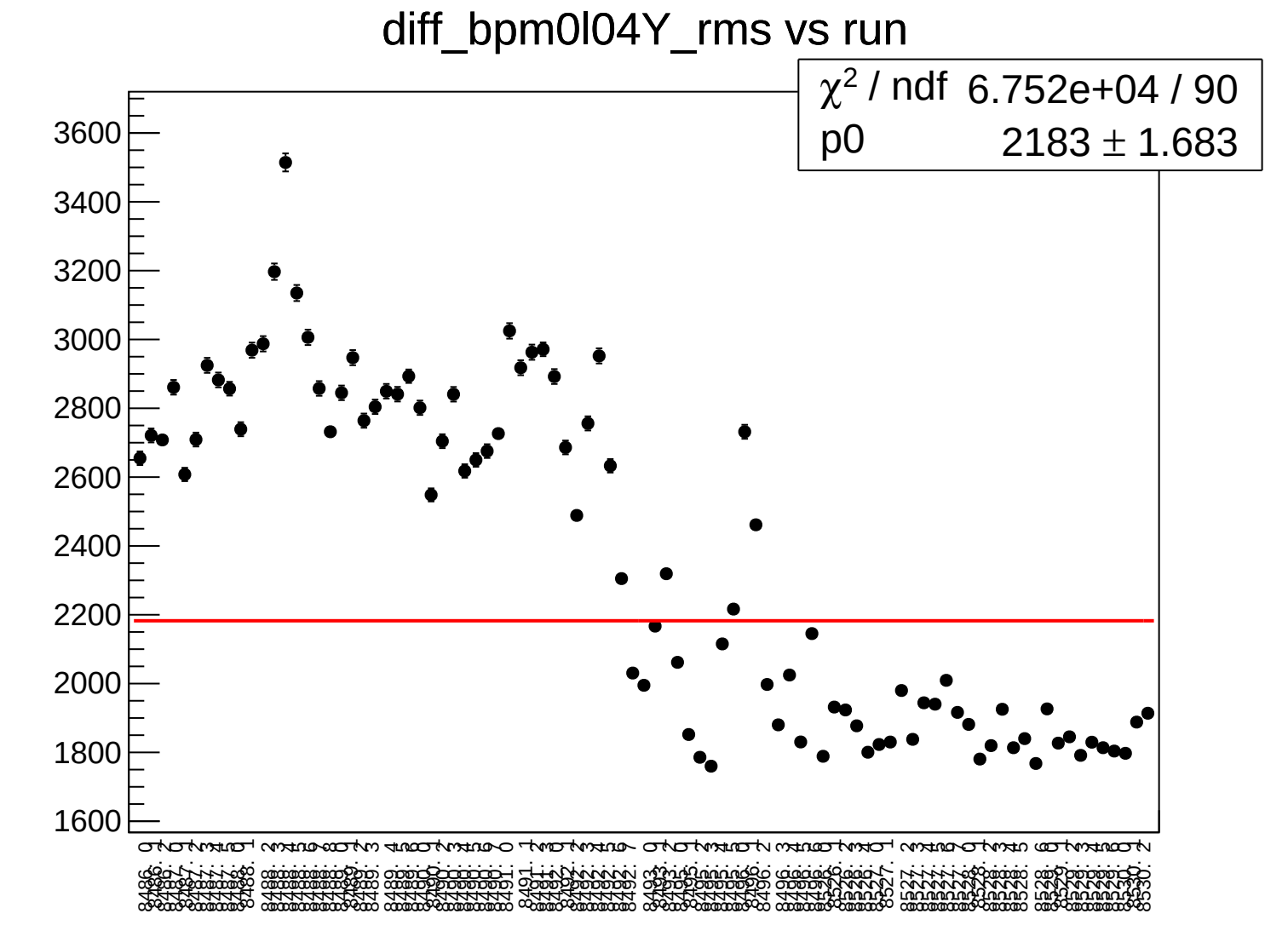

diff_bpm0l04X_mean vs run
χ^2 / ndf 91.3 / 90
p0 11.13 ± 12.57
pull
Entries 91
Mean −235.1
Std Dev 0

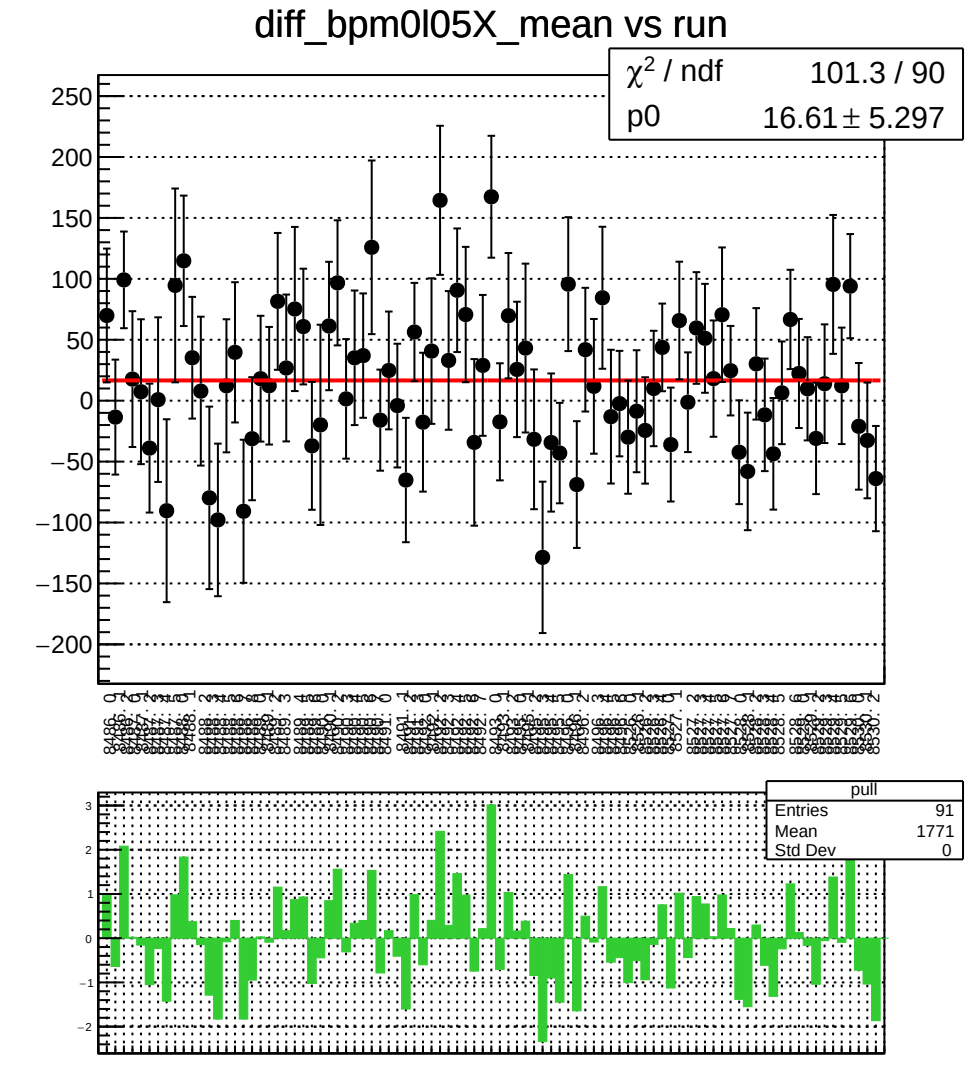

pull1D
Entries 91
Mean −0.006328
Std Dev 1.002

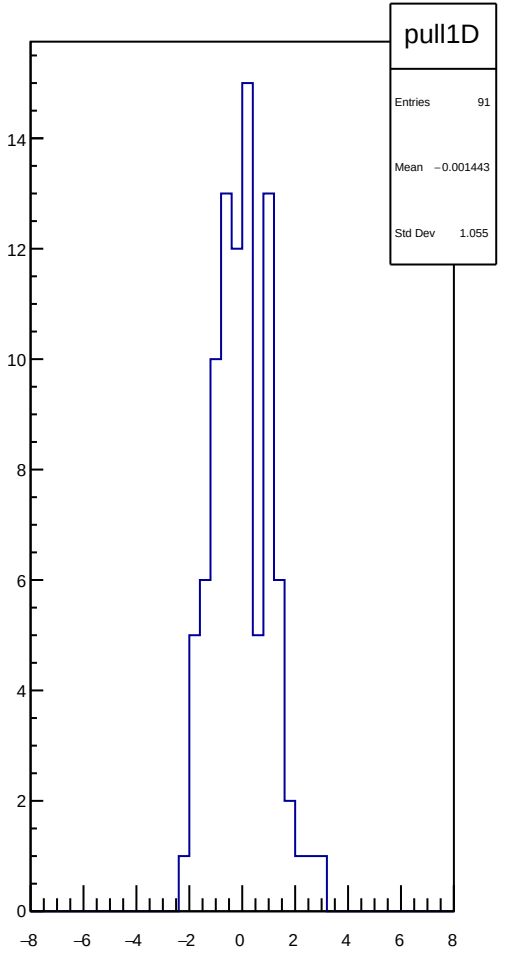

diff_bpm0l04X_rms vs run
χ² / ndf 1.011e+05 / 90
p0 1.141e+04 ± 8.889
18000
16000
14000
12000
10000
8000

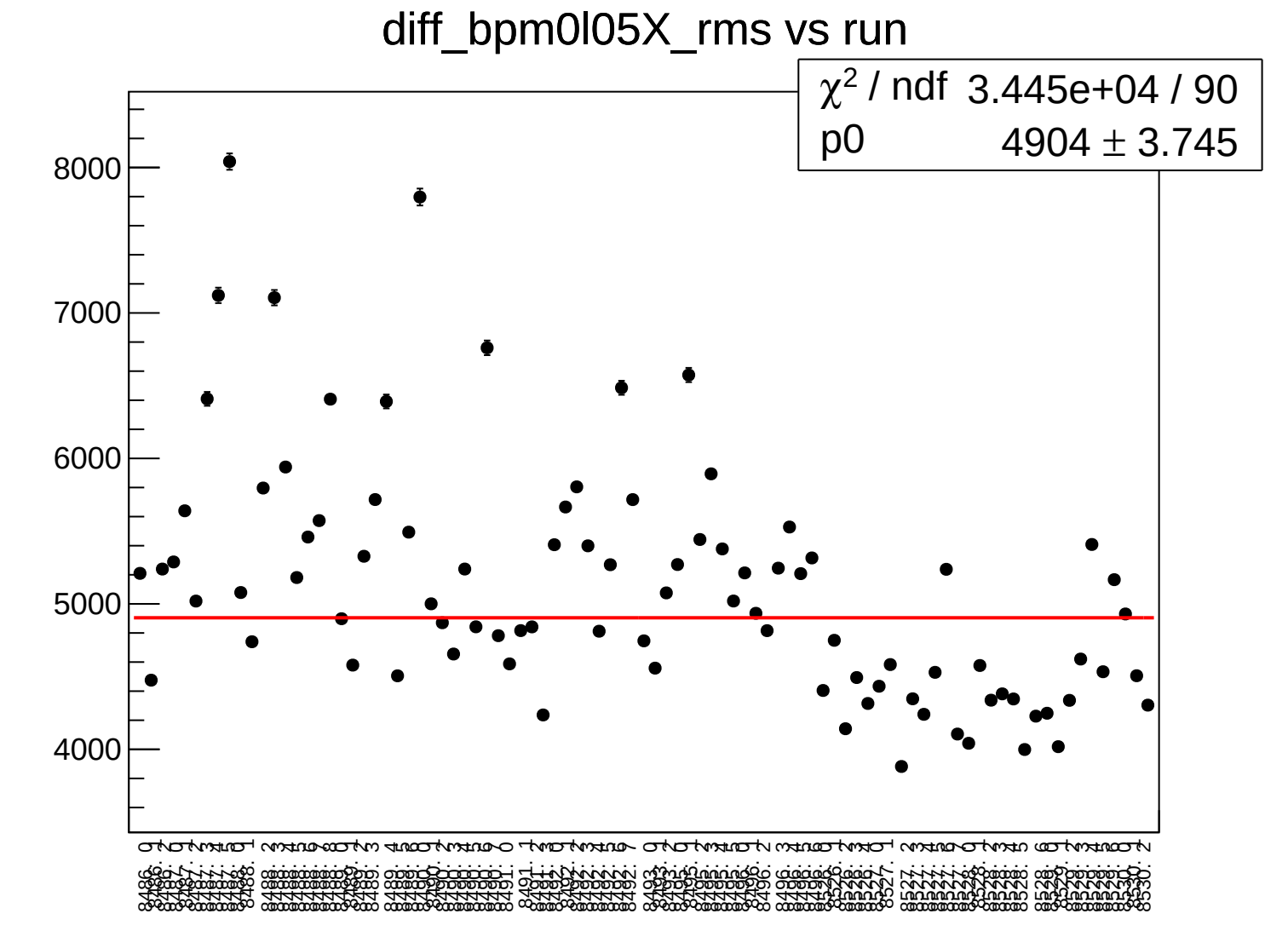

diff_bpm0l04Y_mean vs run
χ² / ndf 106.7 / 90
p0 −12.05 ± 2.38
100
50
0
−50
−100
pull
Entries 91
Mean 1394
Std Dev 0
3
2
1
0
−1
−2
−3

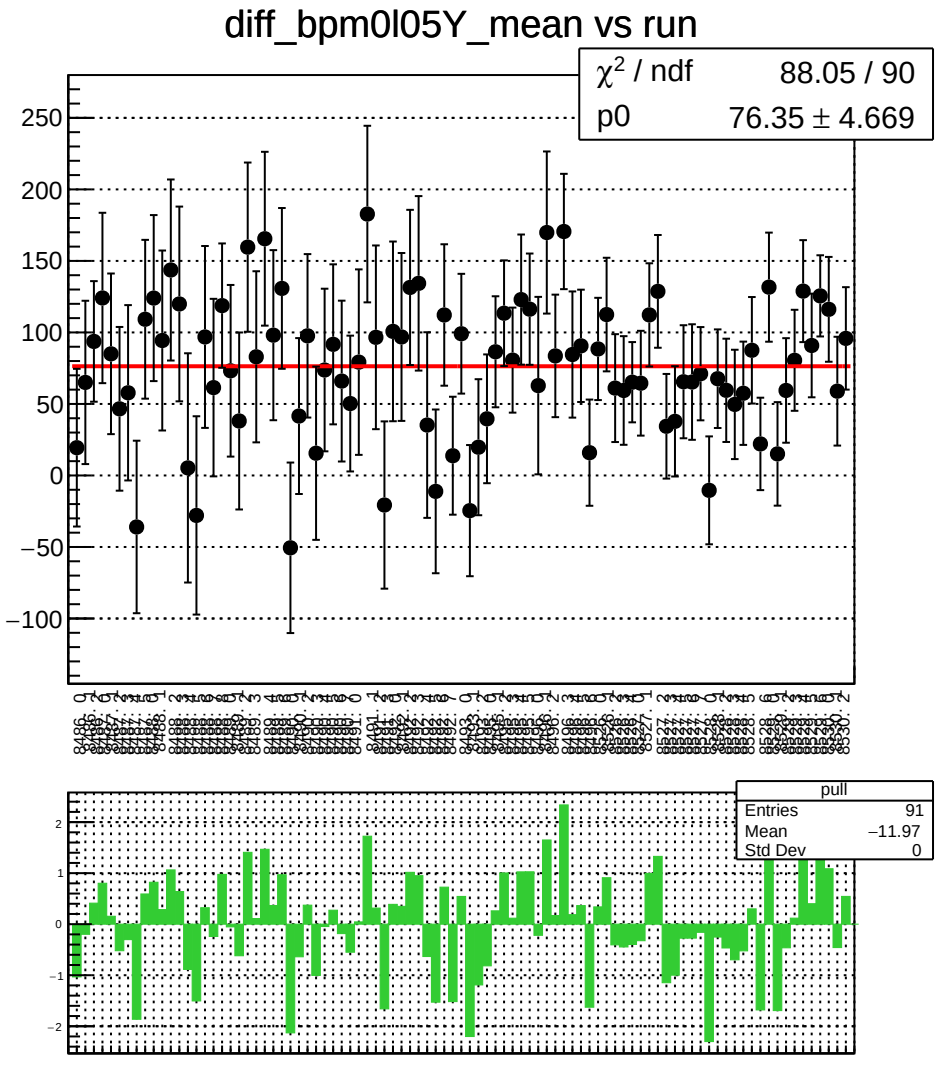

pull1D
Entries 91
Mean −0.0005664
Std Dev 1.083
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

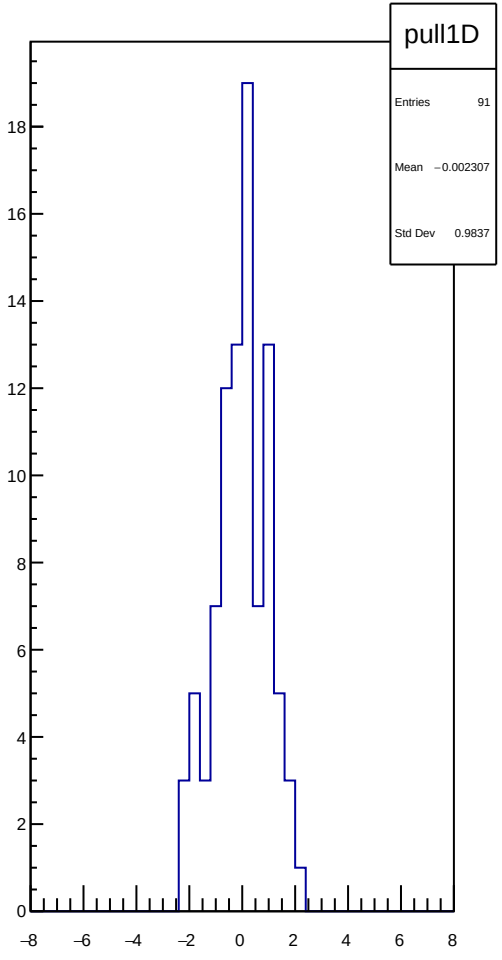

diff_bpm0l04Y_rms vs run
χ² / ndf 6.752e+04 / 90
p0 2183 ± 1.683
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600

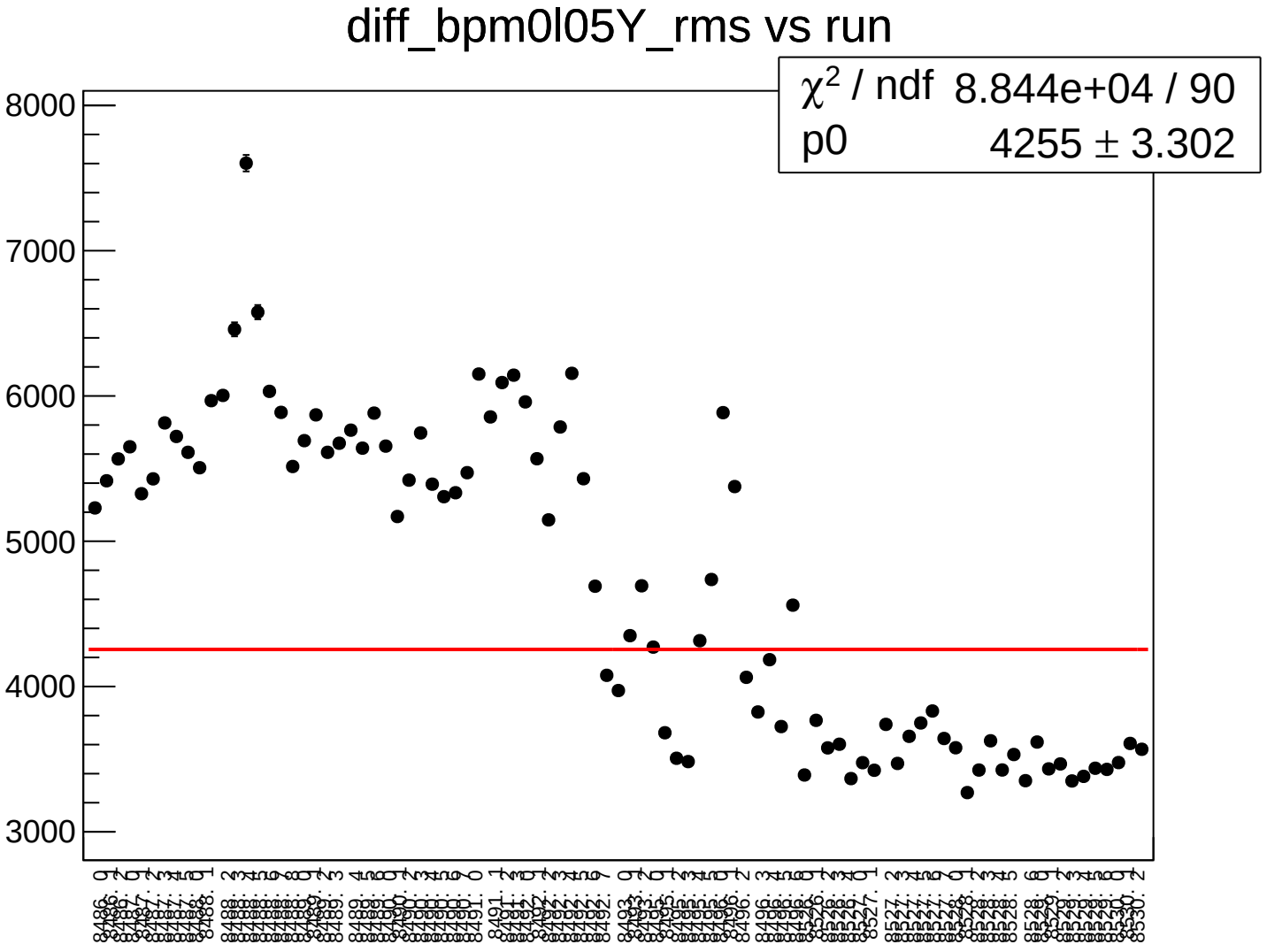

diff_bpm0l05X_mean vs run
χ² / ndf 101.3 / 90
p0 16.61 ± 5.297
pull
Entries 91
Mean 1771
Std Dev 0

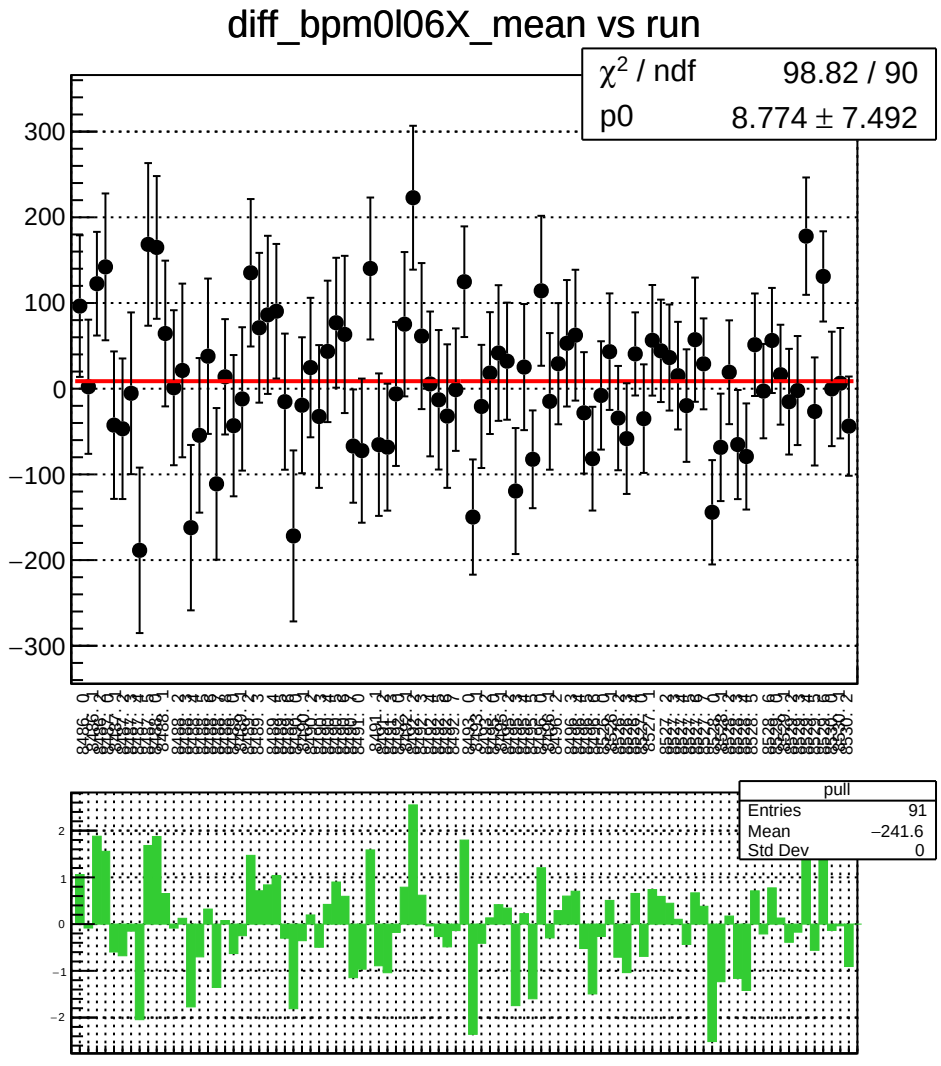

pull1D
Entries 91
Mean −0.001443
Std Dev 1.055

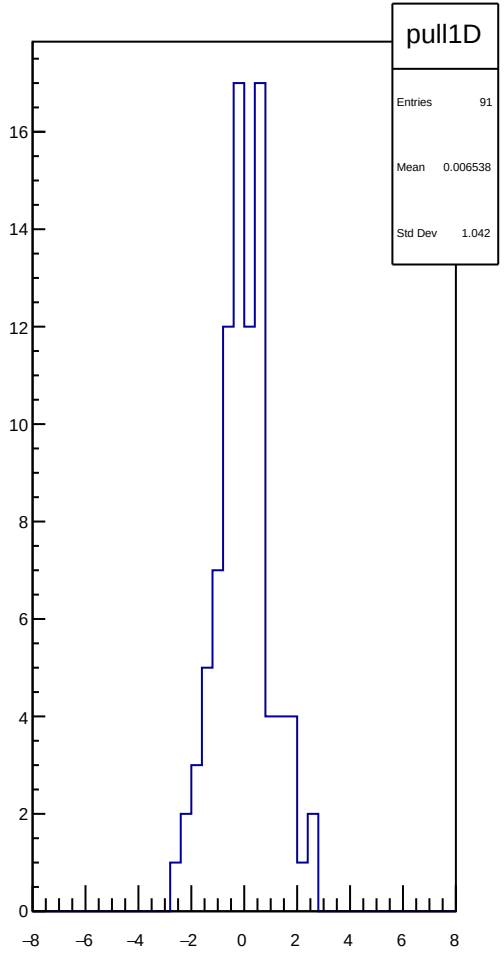

diff_bpm0l05X_rms vs run
χ² / ndf 3.445e+04 / 90
p0 4904 ± 3.745
8000
7000
6000
5000
4000

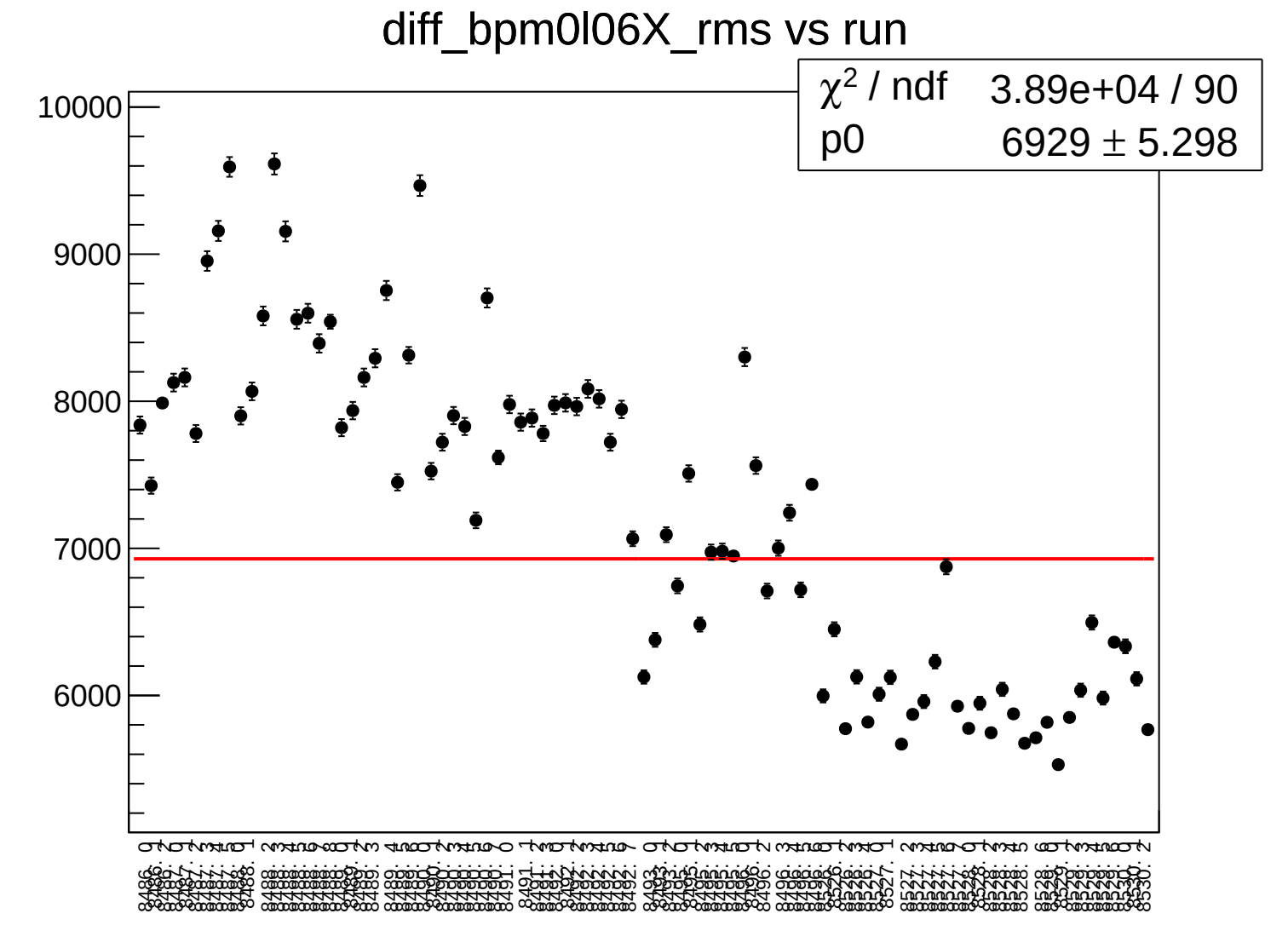

diff_bpm0l05Y_mean vs run
χ^2 / ndf 88.05 / 90
p0 76.35 ± 4.669
pull
Entries 91
Mean −11.97
Std Dev 0

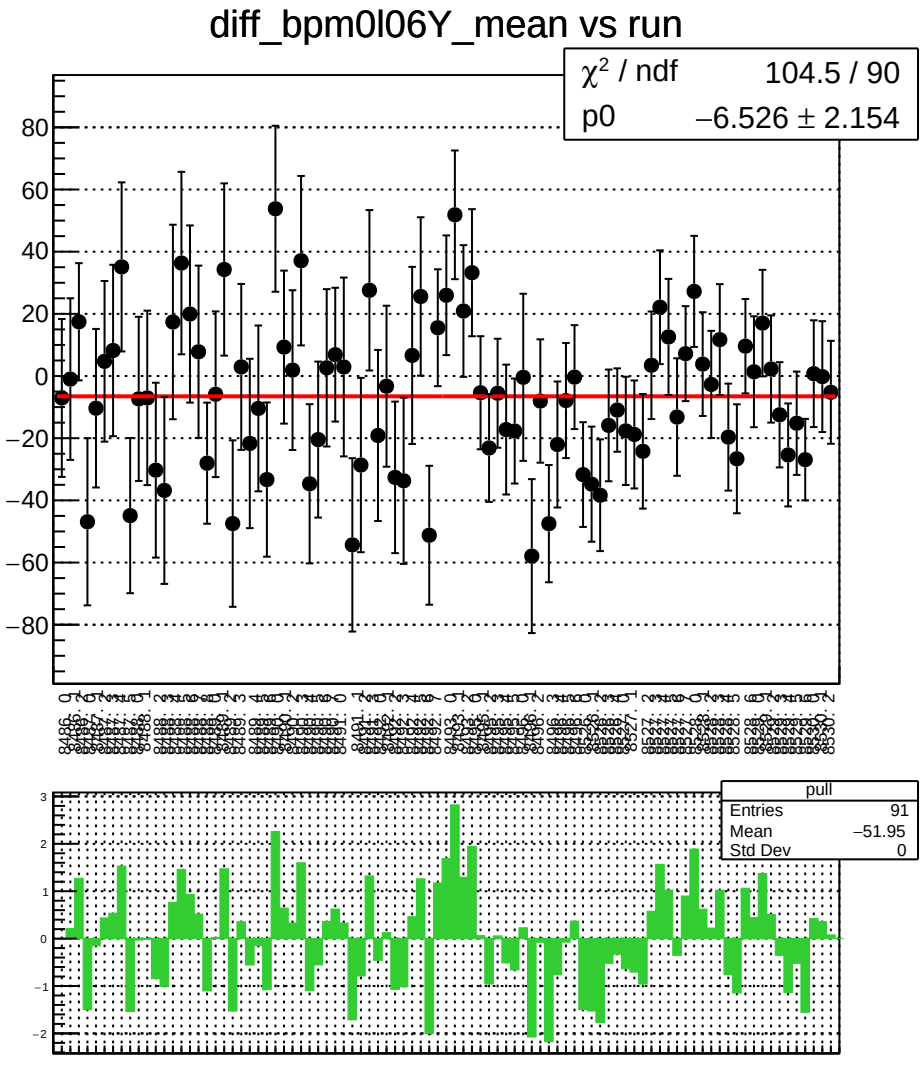

pull1D
Entries 91
Mean −0.002307
Std Dev 0.9837

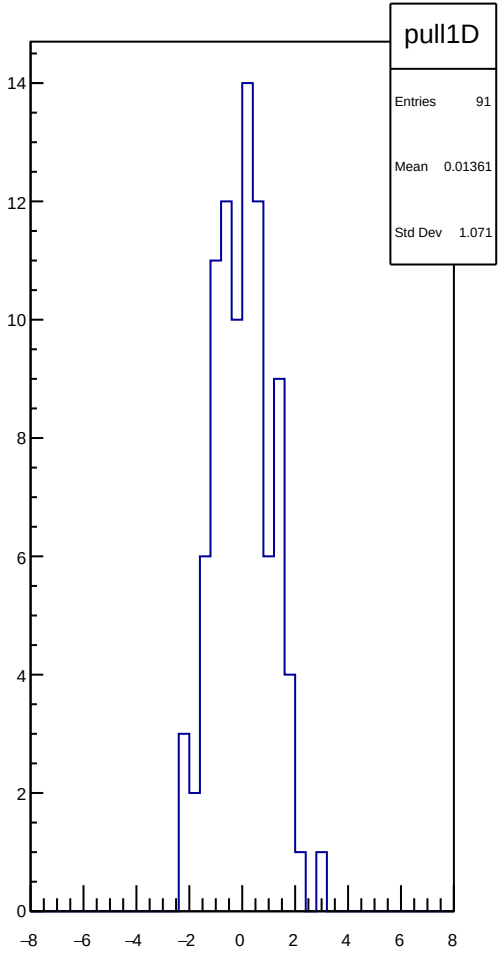

diff_bpm0l05Y_rms vs run
χ² / ndf 8.844e+04 / 90
p0 4255 ± 3.302
8000
7000
6000
5000
4000
3000

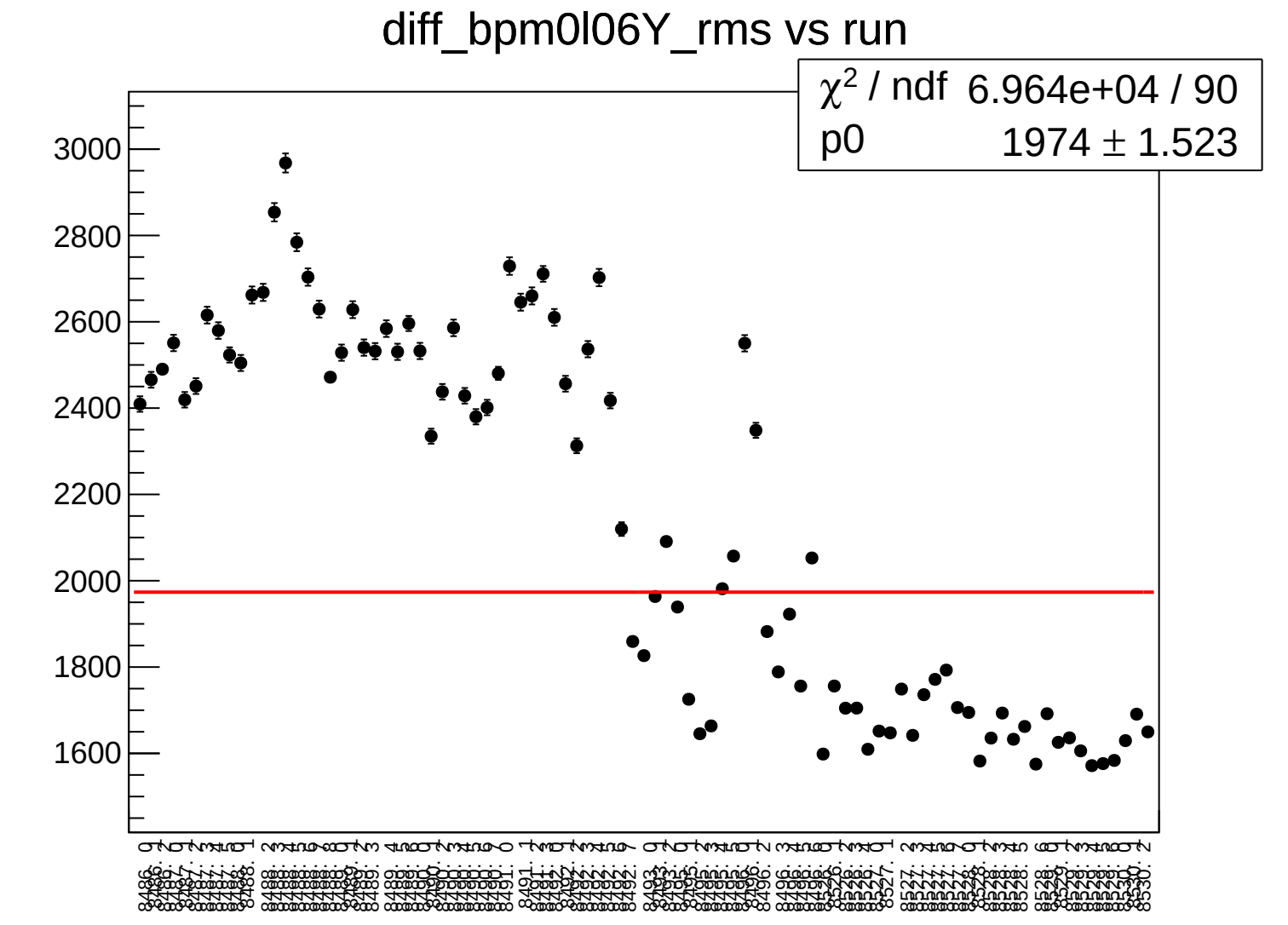

diff_bpm0l06X_mean vs run
χ² / ndf 98.82 / 90
p0 8.774 ± 7.492
300
200
100
0
−100
−200
−300
pull
Entries 91
Mean −241.6
Std Dev 0
2
1
0
−1
−2

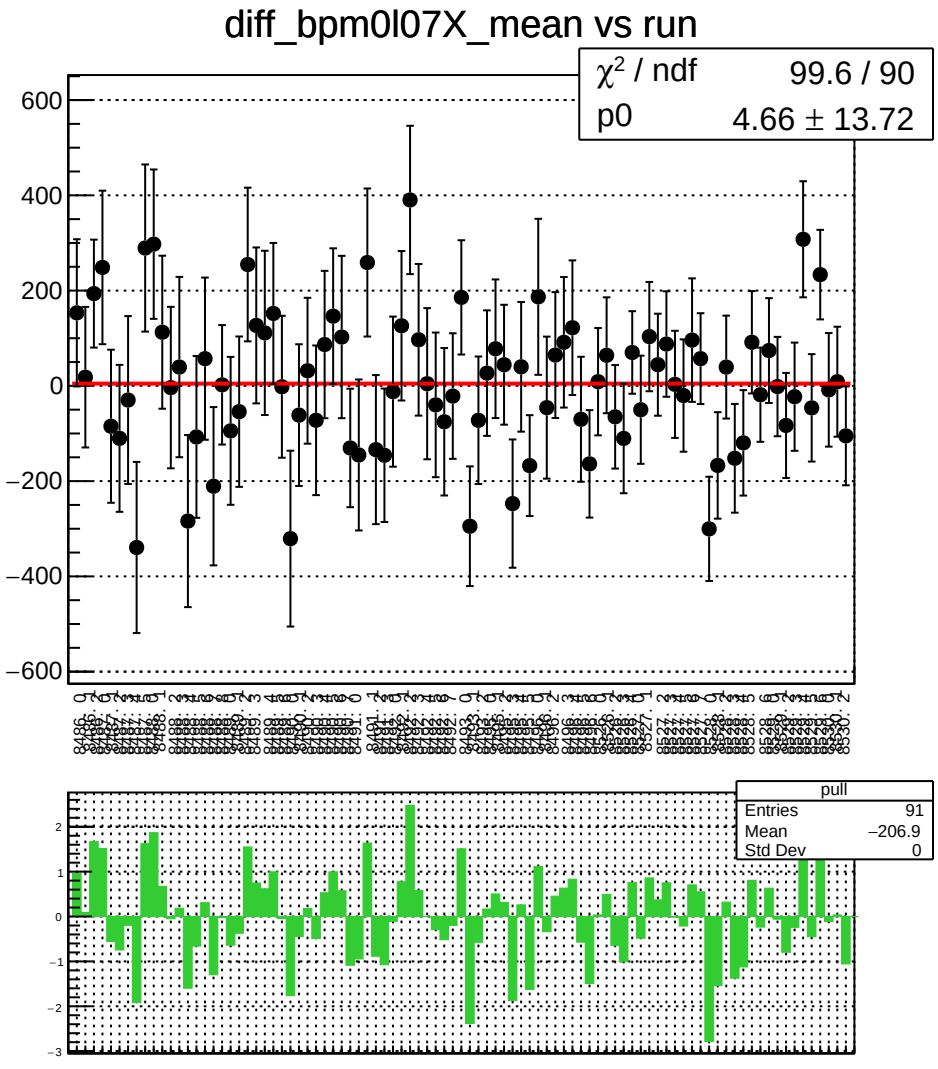

pull1D
Entries 91
Mean 0.006538
Std Dev 1.042
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

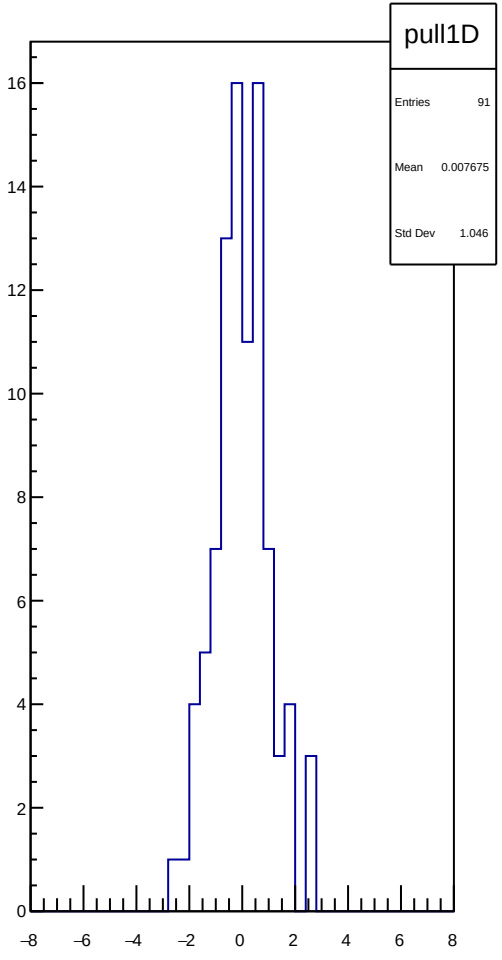

diff_bpm0l06X_rms vs run
χ^2 / ndf 3.89e+04 / 90
p0 6929 ± 5.298
10000
9000
8000
7000
6000

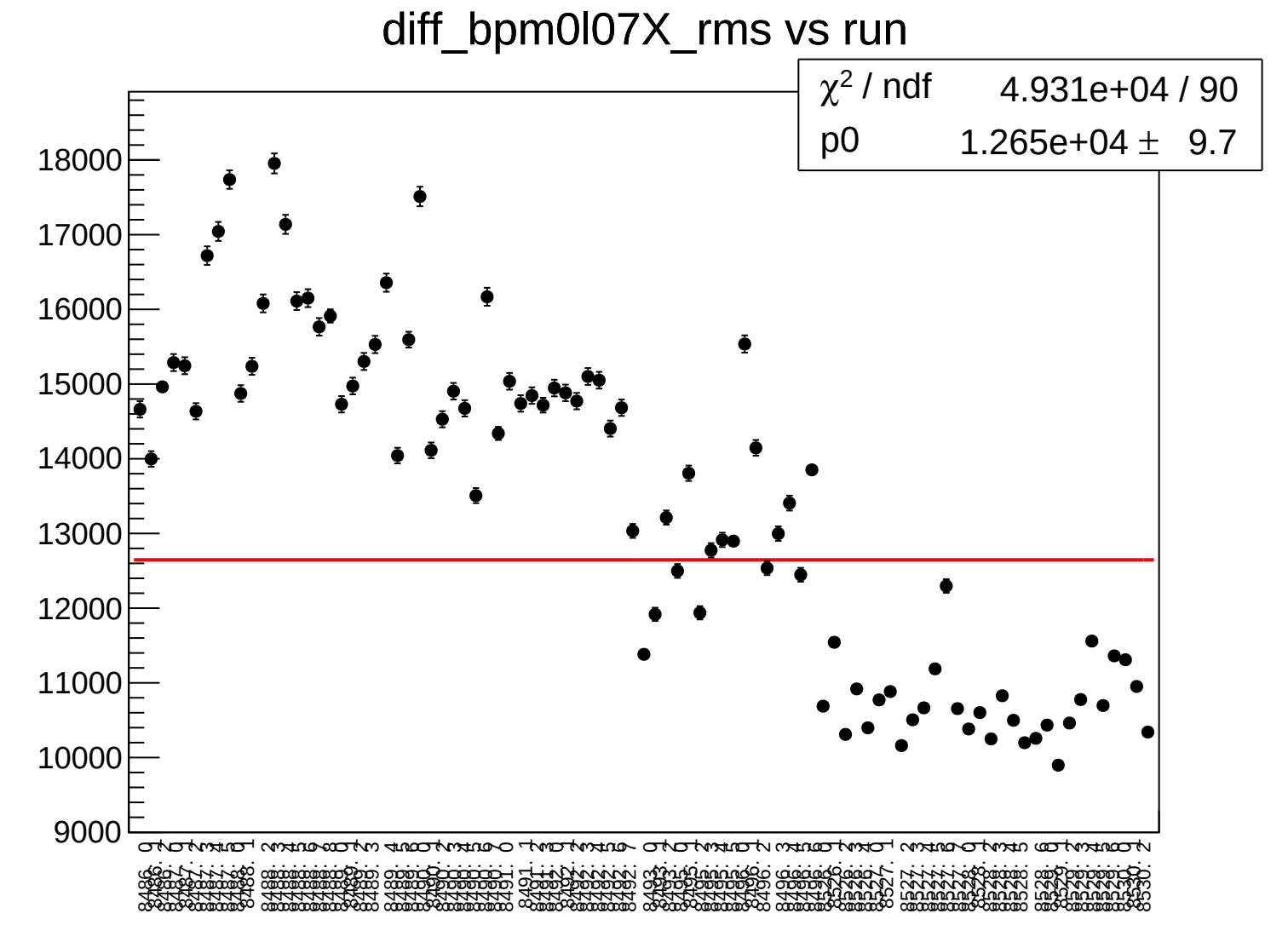

diff_bpm0l06Y_mean vs run
χ² / ndf 104.5 / 90
p0 −6.526 ± 2.154
pull
Entries 91
Mean −51.95
Std Dev 0

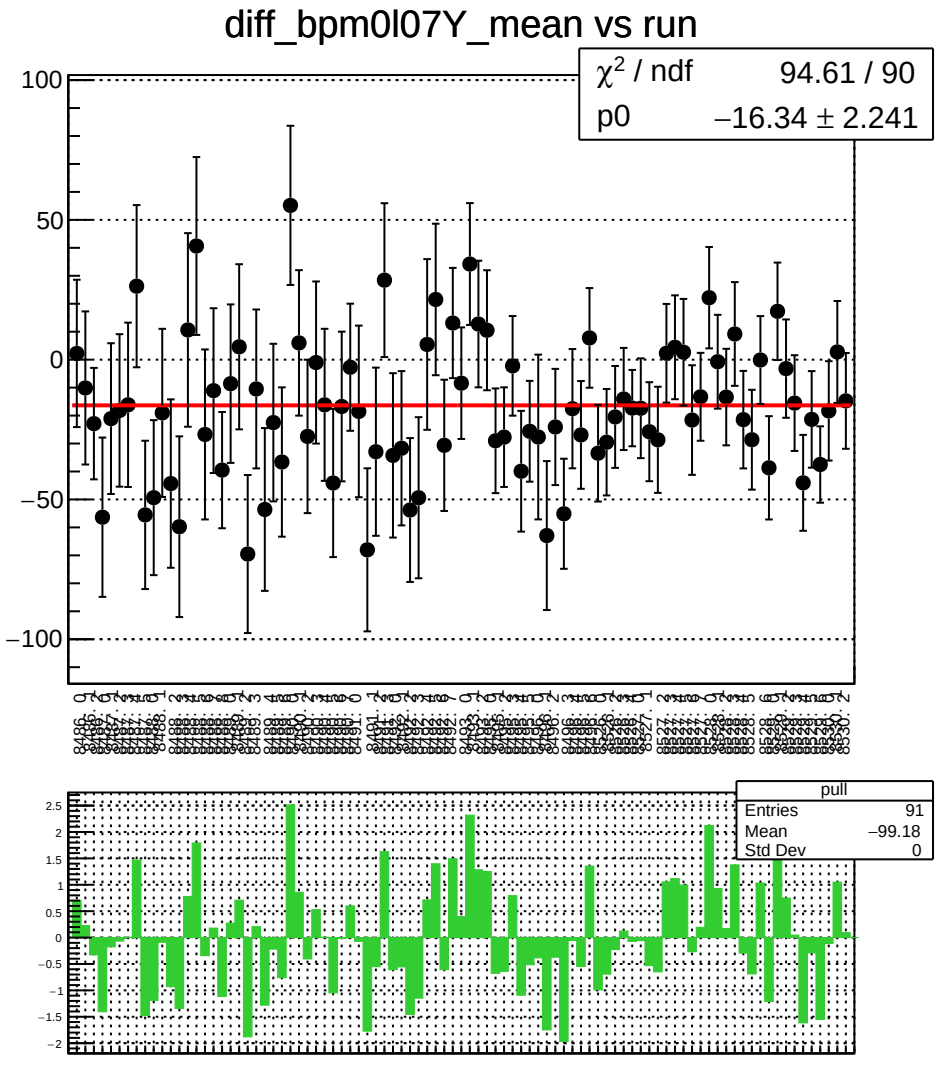

pull1D
Entries 91
Mean 0.01361
Std Dev 1.071

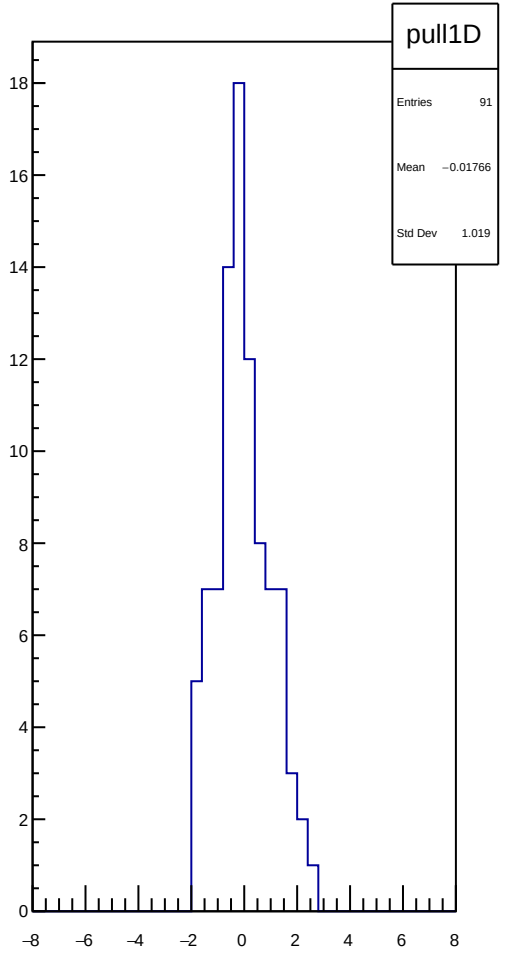

diff_bpm0l06Y_rms vs run
χ² / ndf 6.964e+04 / 90
p0 1974 ± 1.523
3000
2800
2600
2400
2200
2000
1800
1600

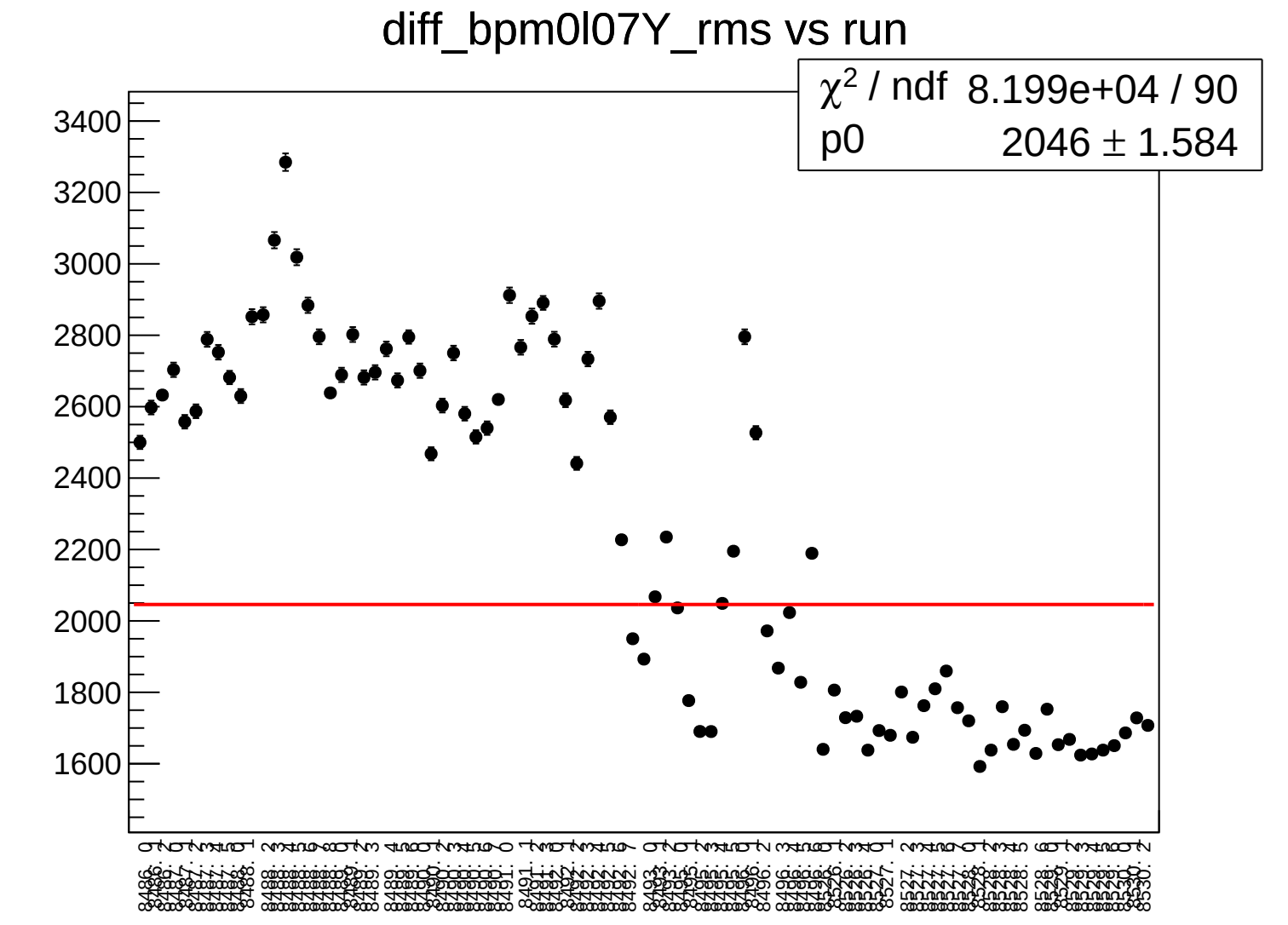

diff_bpm0l07X_mean vs run
χ² / ndf 99.6 / 90
p0 4.66 ± 13.72
pull
Entries 91
Mean −206.9
Std Dev 0

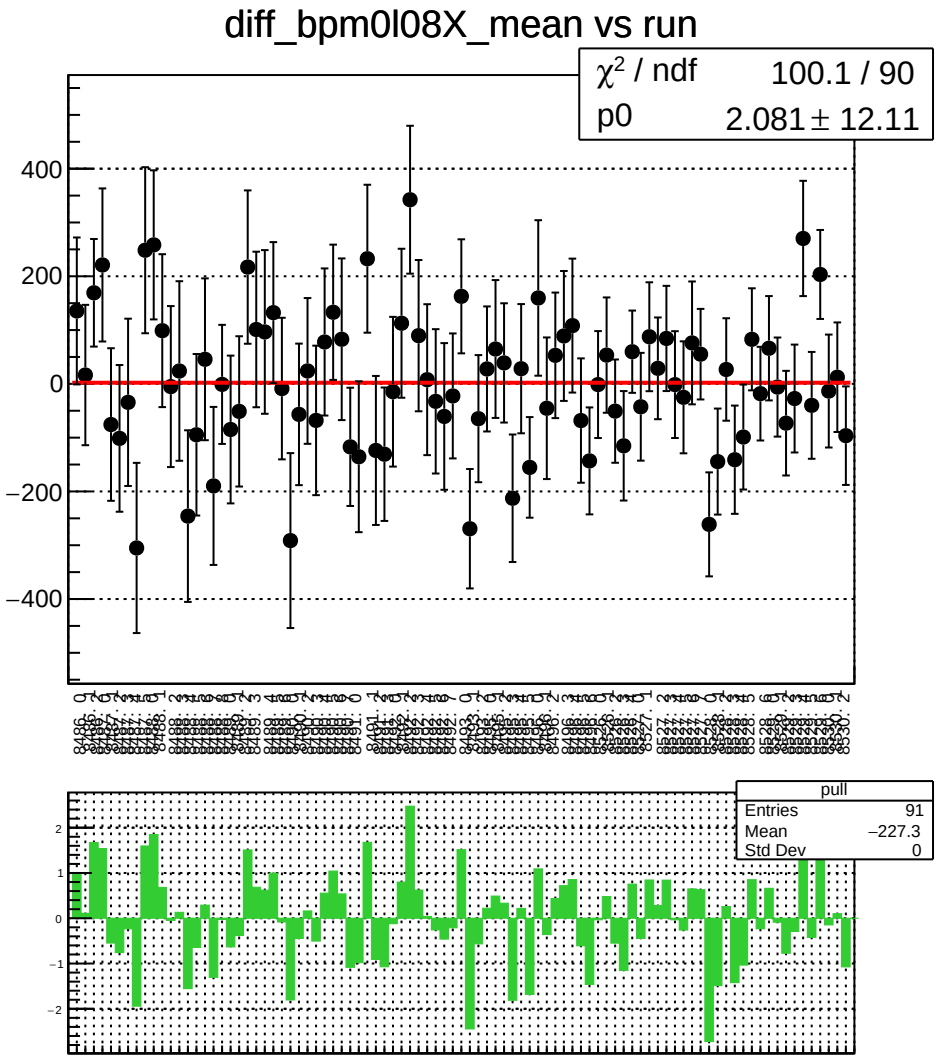

pull1D
Entries 91
Mean 0.007675
Std Dev 1.046

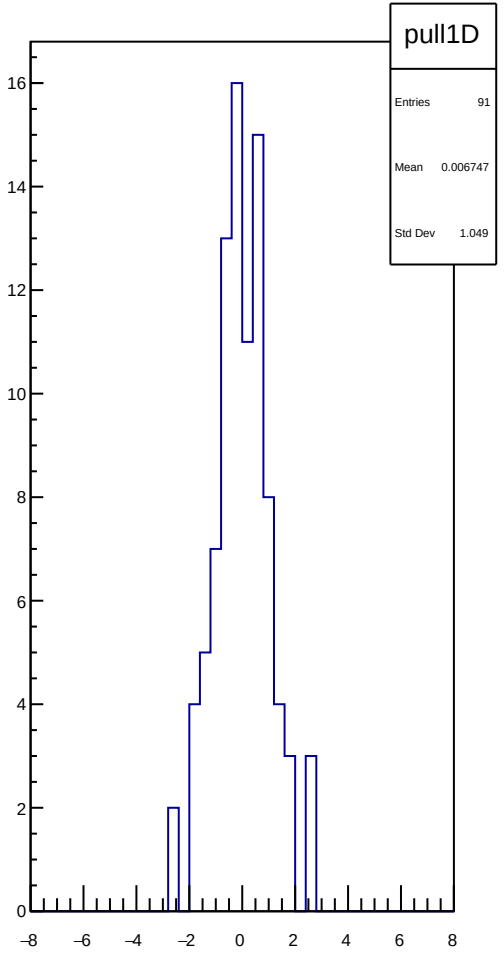

diff_bpm0l07X_rms vs run
χ² / ndf 4.931e+04 / 90
p0 1.265e+04 ± 9.7
18000
17000
16000
15000
14000
13000
12000
11000
10000
9000

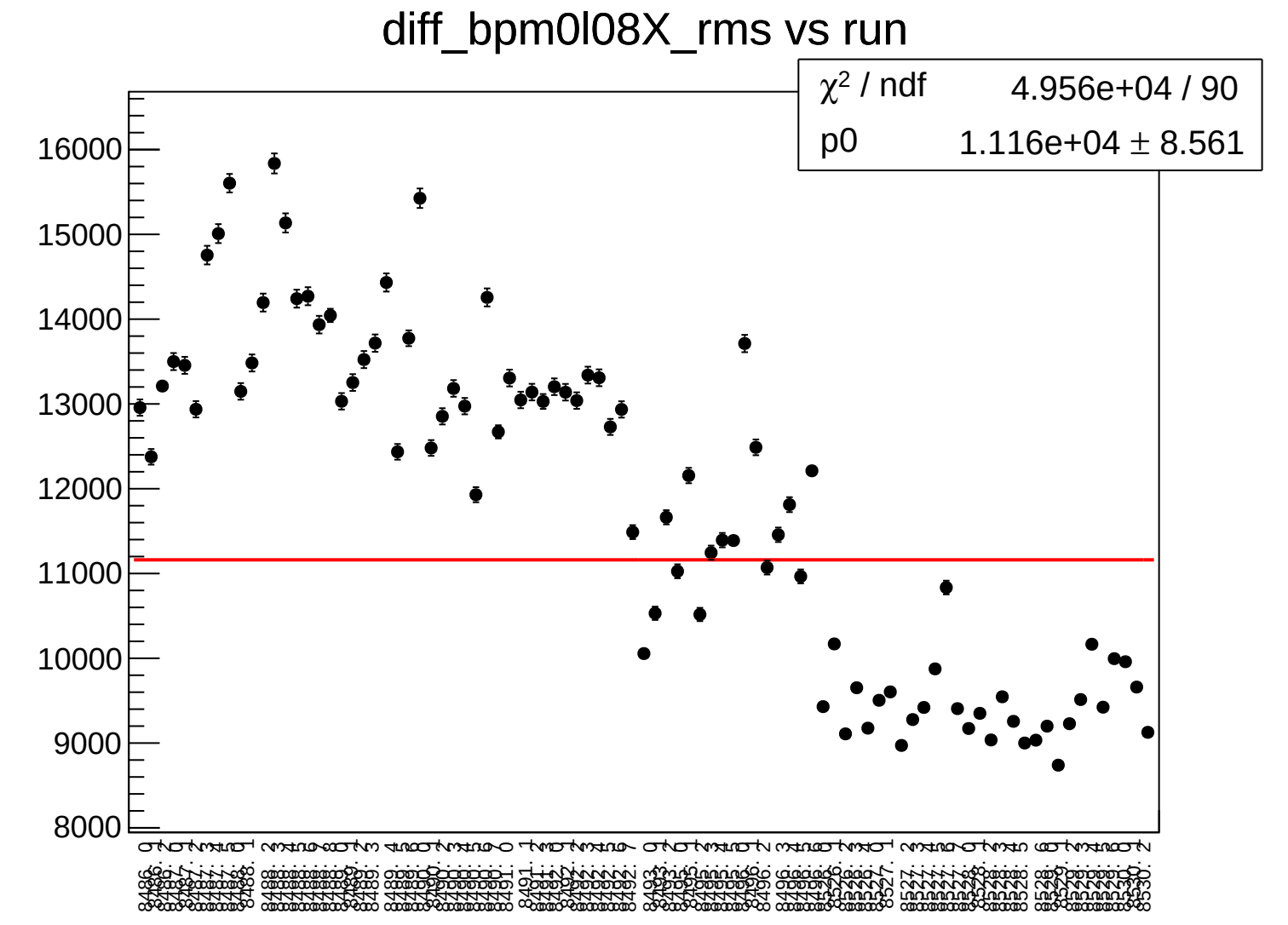

diff_bpm0l07Y_mean vs run
χ² / ndf 94.61 / 90
p0 −16.34 ± 2.241
100
50
0
−50
−100
pull
Entries 91
Mean −99.18
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

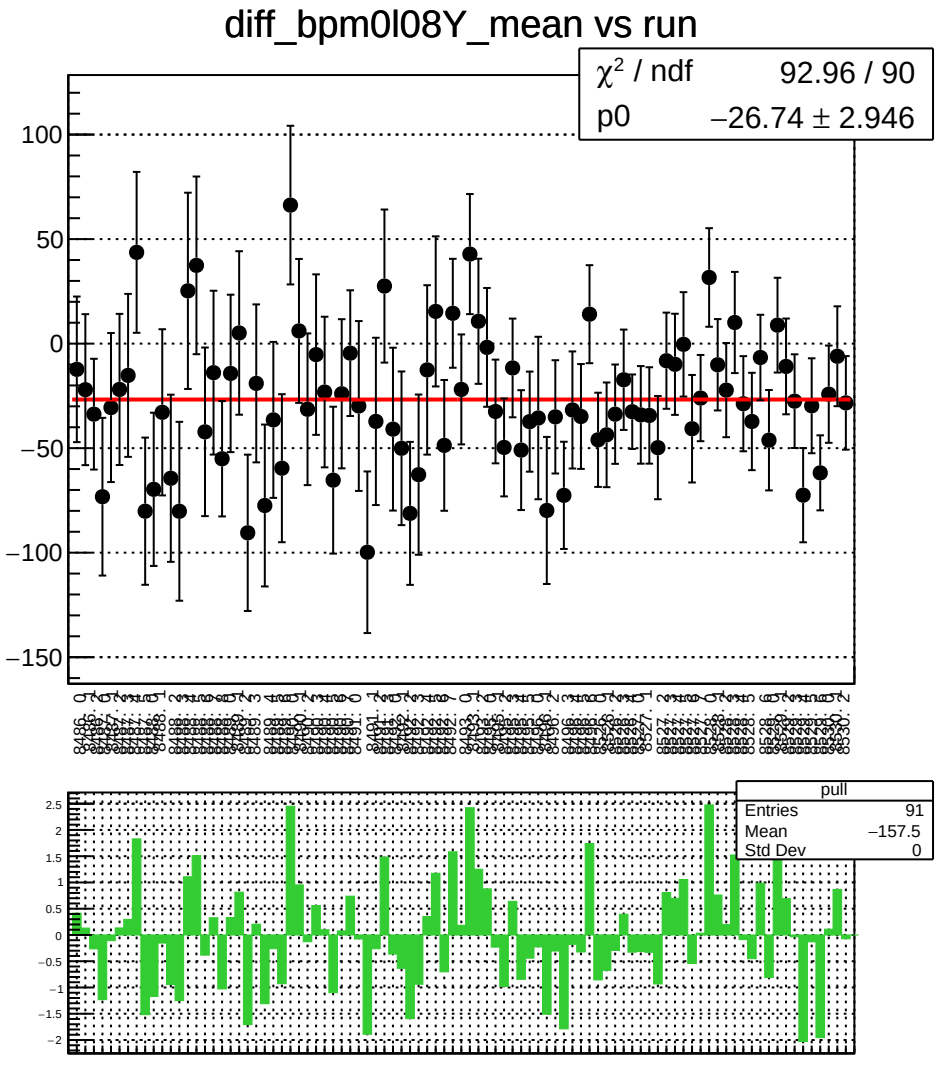

pull1D
Entries 91
Mean −0.01766
Std Dev 1.019
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

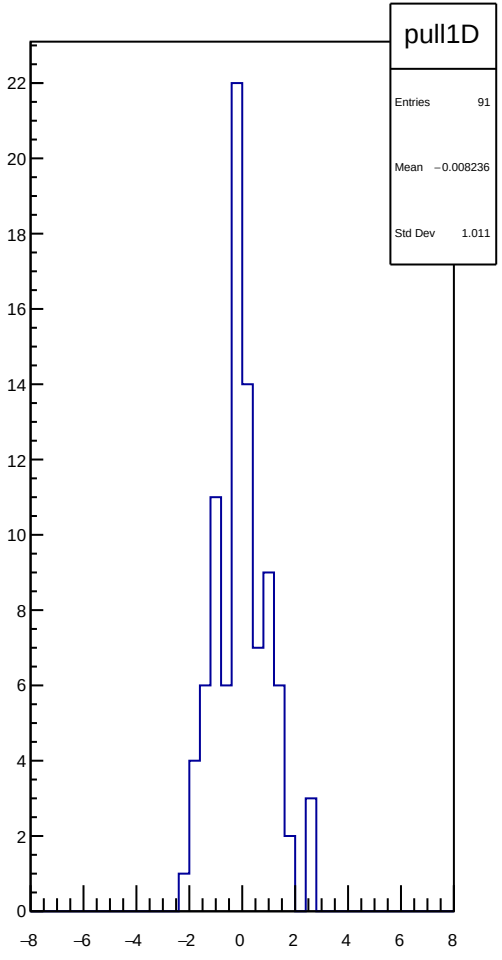

diff_bpm0l07Y_rms vs run
χ² / ndf 8.199e+04 / 90
p0 2046 ± 1.584
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600

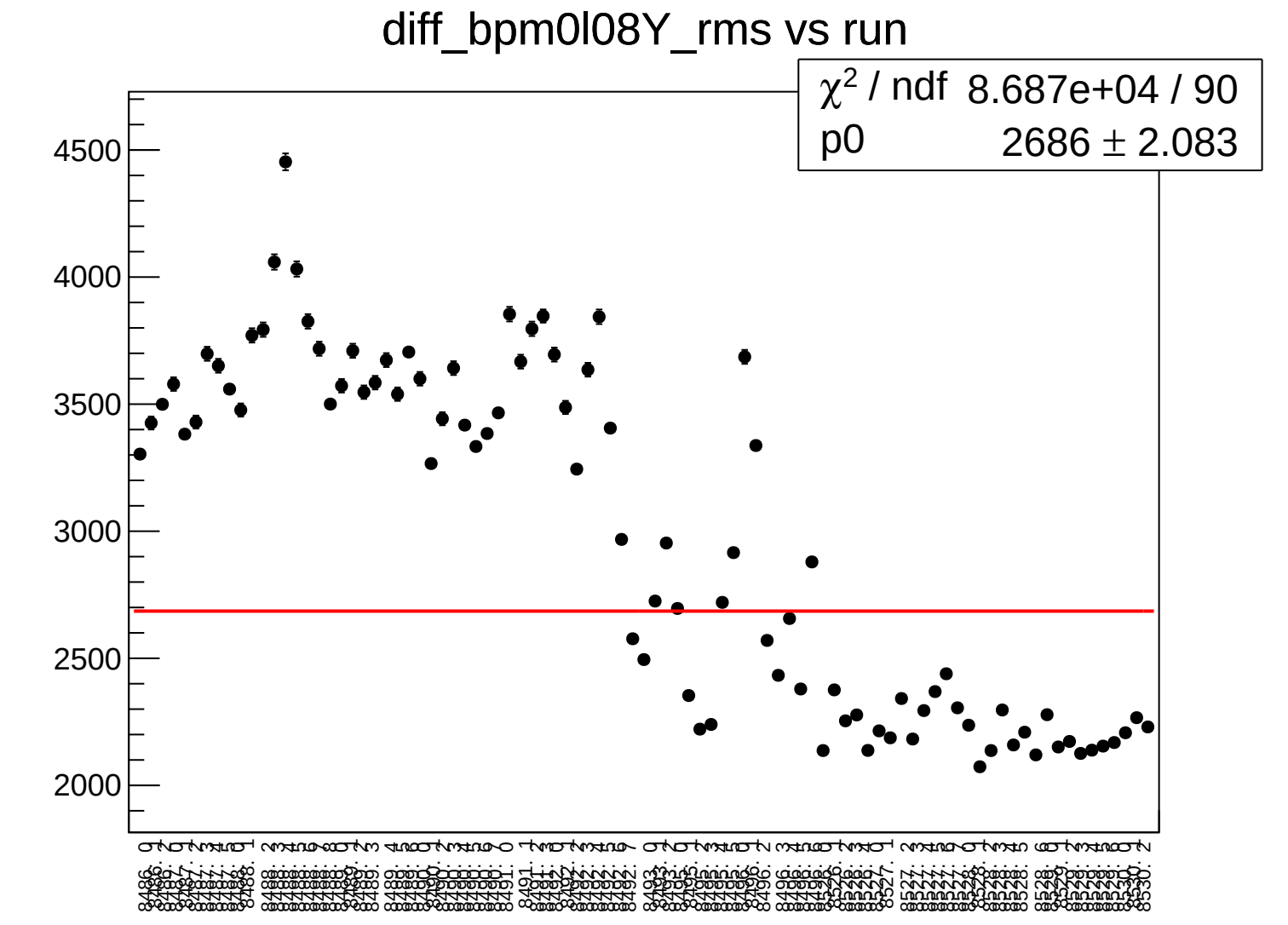

diff_bpm0l08X_mean vs run
χ² / ndf 100.1 / 90
p0 2.081 ± 12.11
400
200
0
−200
−400
pull
Entries 91
Mean −227.3
Std Dev 0
2
1
0
−1
−2

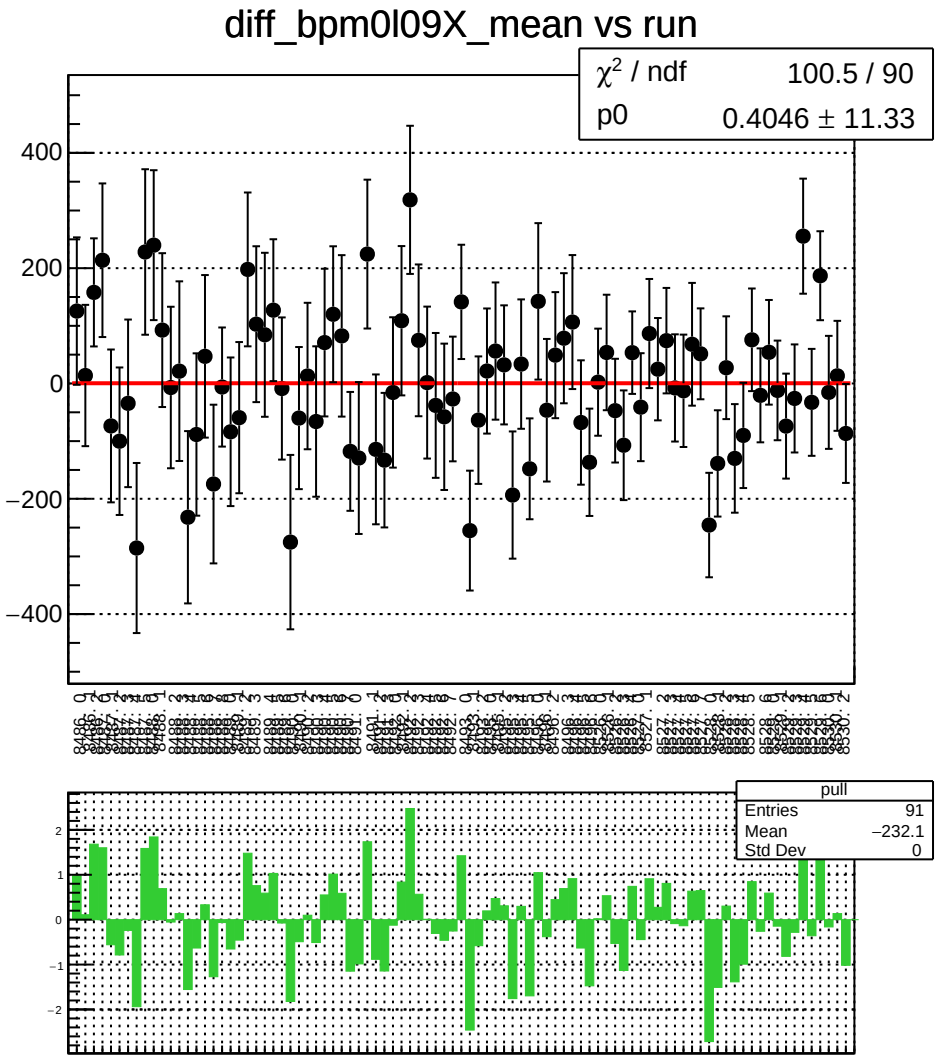

pull1D
Entries 91
Mean 0.006747
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

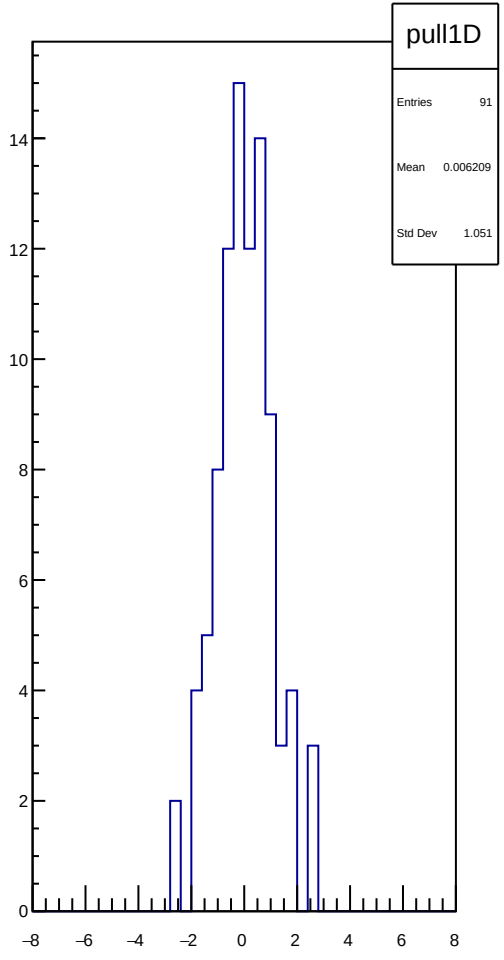

diff_bpm0l08X_rms vs run
χ² / ndf 4.956e+04 / 90
p0 1.116e+04 ± 8.561
16000
15000
14000
13000
12000
11000
10000
9000
8000

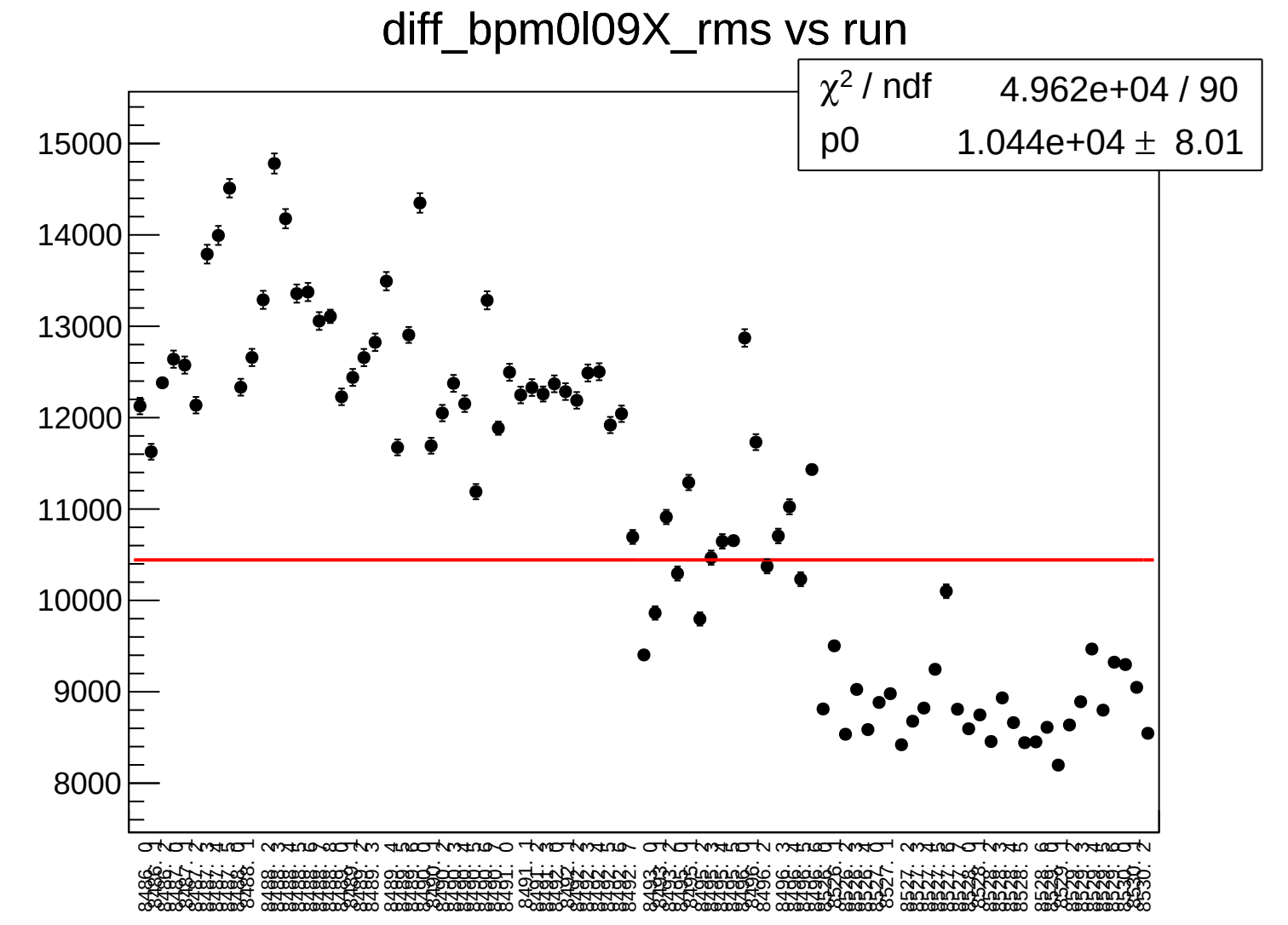

diff_bpm0l08Y_mean vs run
χ² / ndf 92.96 / 90
p0 −26.74 ± 2.946
pull
Entries 91
Mean −157.5
Std Dev 0

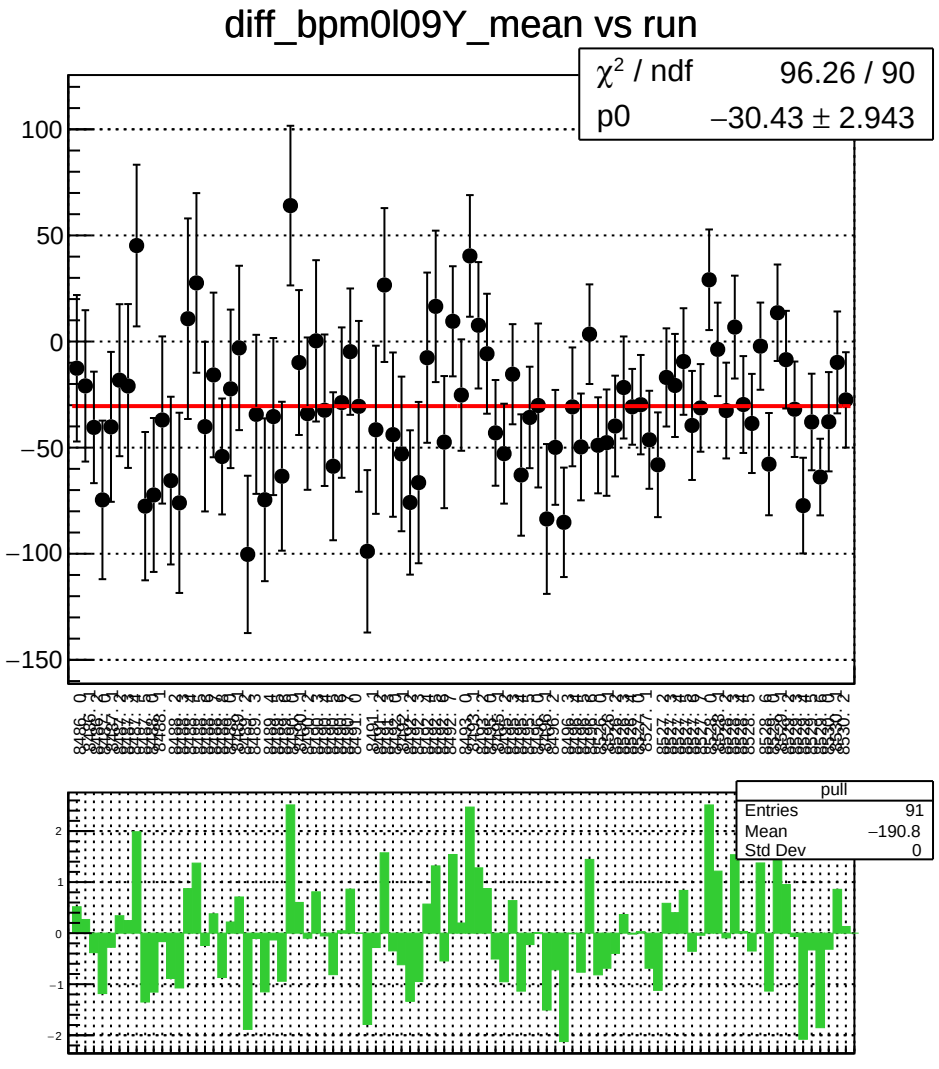

pull1D
Entries 91
Mean −0.008236
Std Dev 1.011

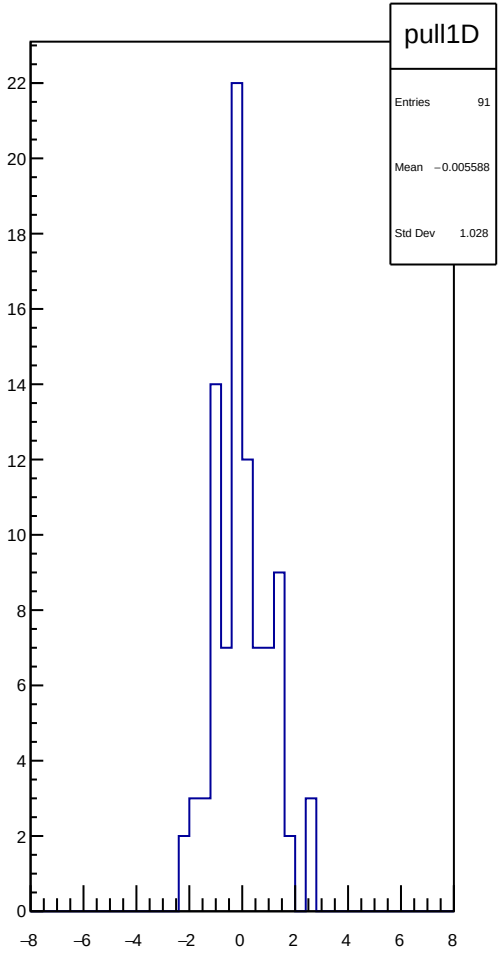

diff_bpm0l08Y_rms vs run
χ² / ndf 8.687e+04 / 90
p0 2686 ± 2.083
4500
4000
3500
3000
2500
2000

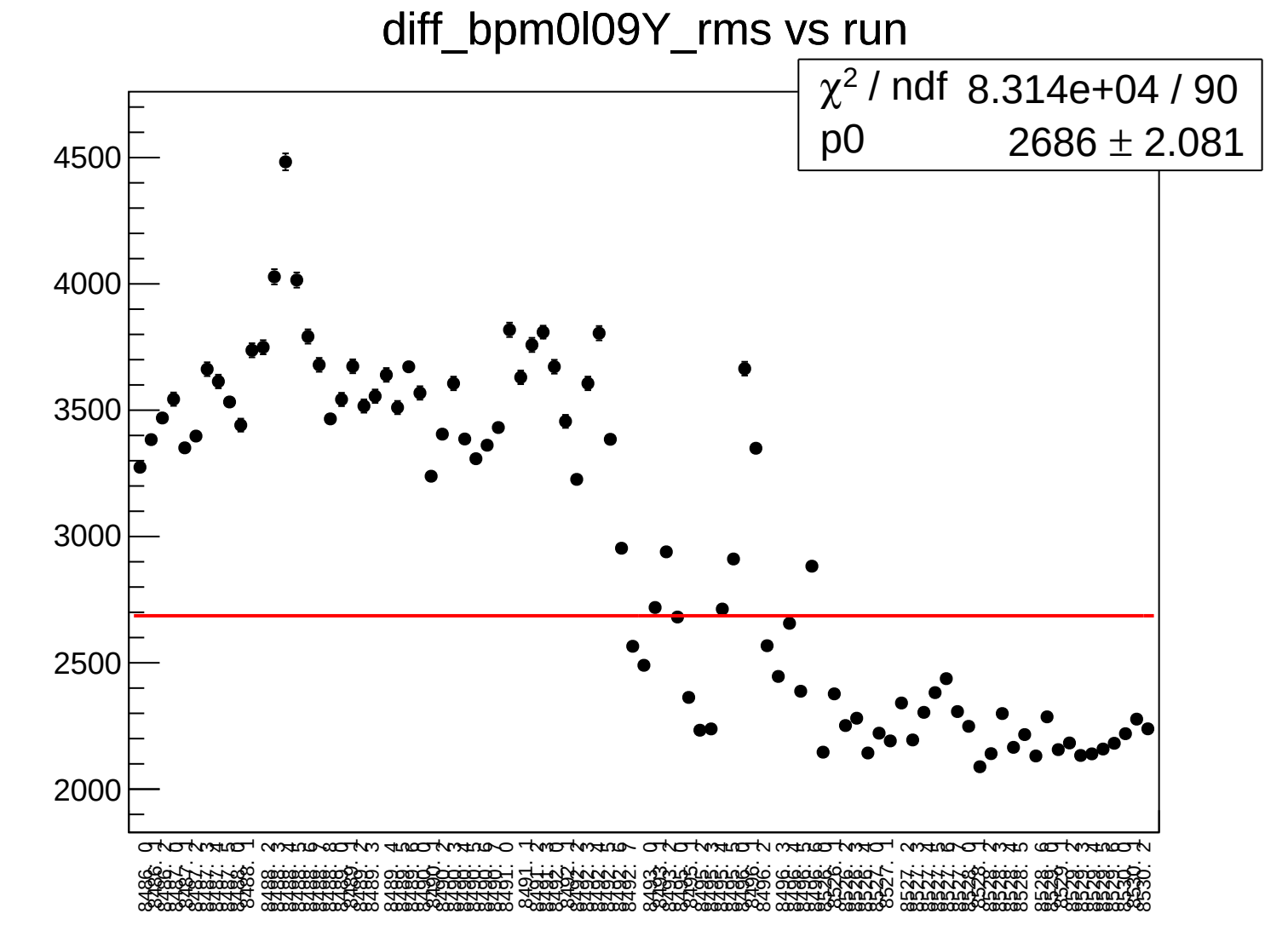

diff_bpm0l09X_mean vs run
χ^2 / ndf 100.5 / 90
p0 0.4046 ± 11.33
400
200
0
−200
−400
pull
Entries 91
Mean −232.1
Std Dev 0
2
1
0
−1
−2

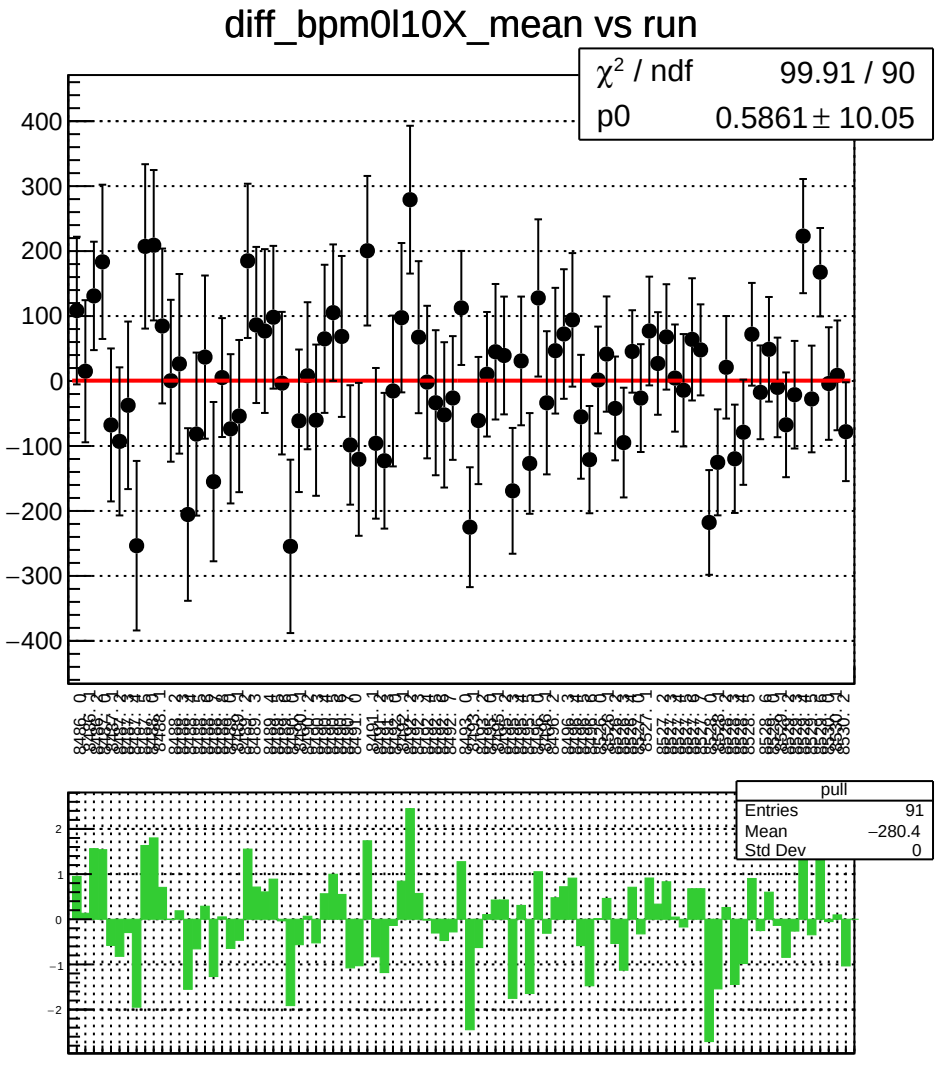

pull1D
Entries 91
Mean 0.006209
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

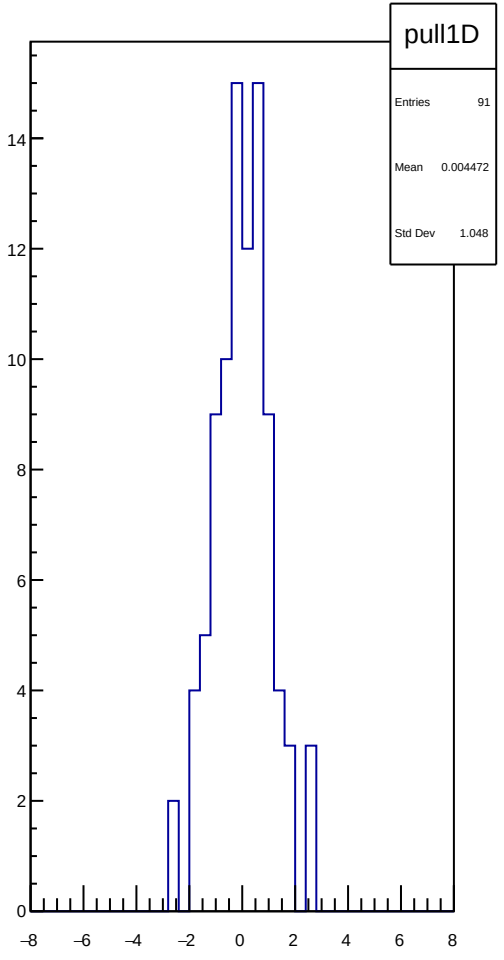

diff_bpm0l09X_rms vs run
χ² / ndf 4.962e+04 / 90
p0 1.044e+04 ± 8.01
15000
14000
13000
12000
11000
10000
9000
8000

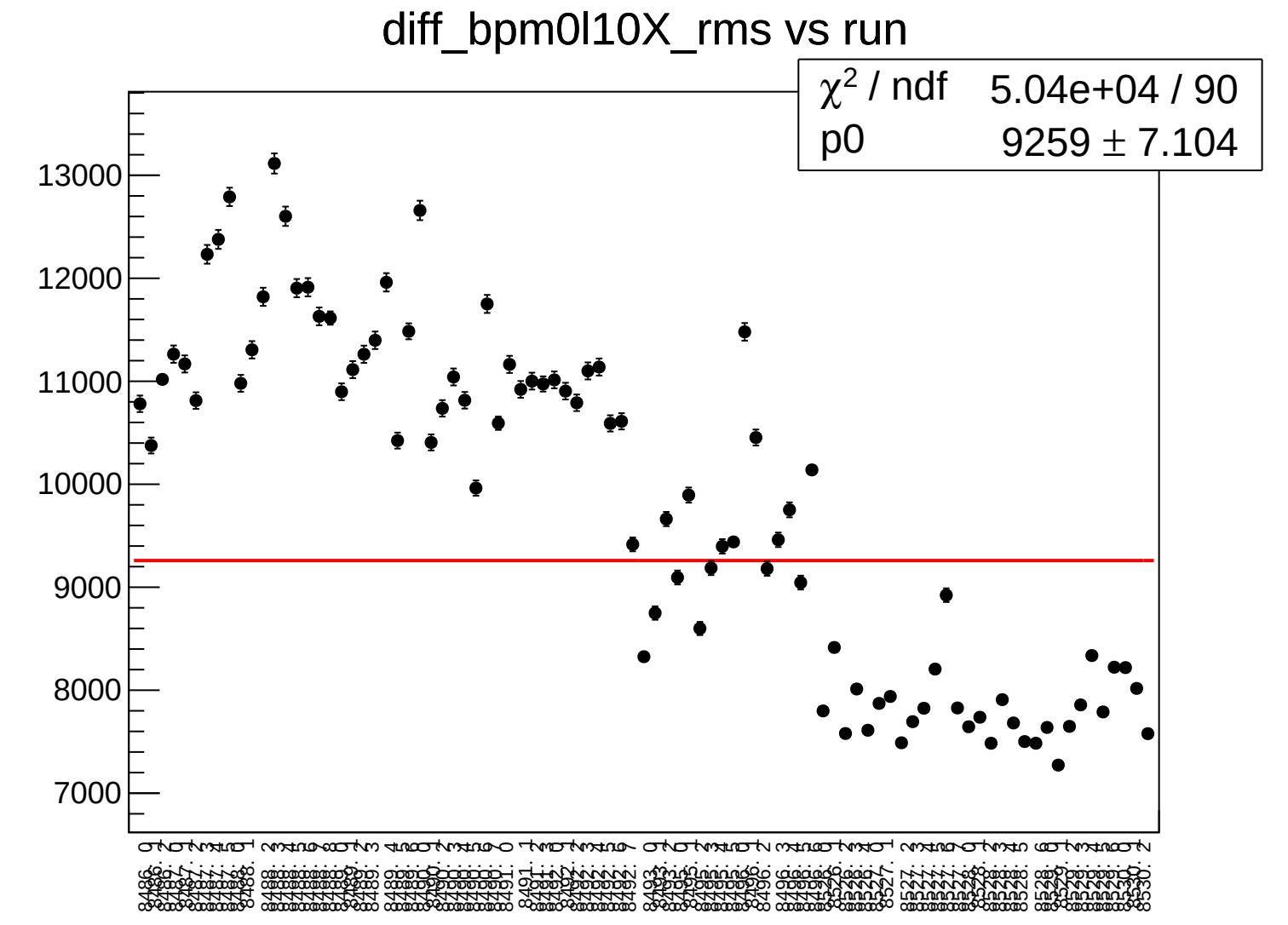

diff_bpm0l09Y_mean vs run
χ² / ndf 96.26 / 90
p0 −30.43 ± 2.943
pull
Entries 91
Mean −190.8
Std Dev 0

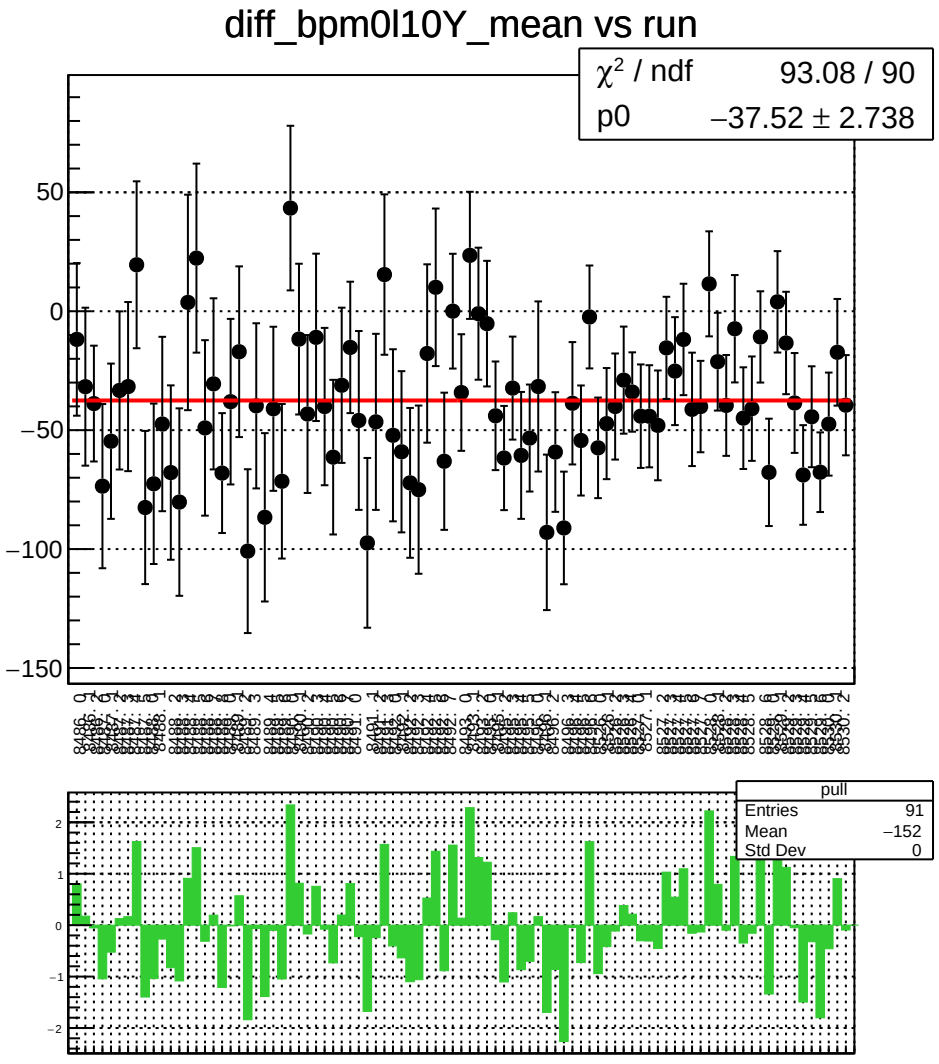

pull1D
Entries 91
Mean −0.005588
Std Dev 1.028

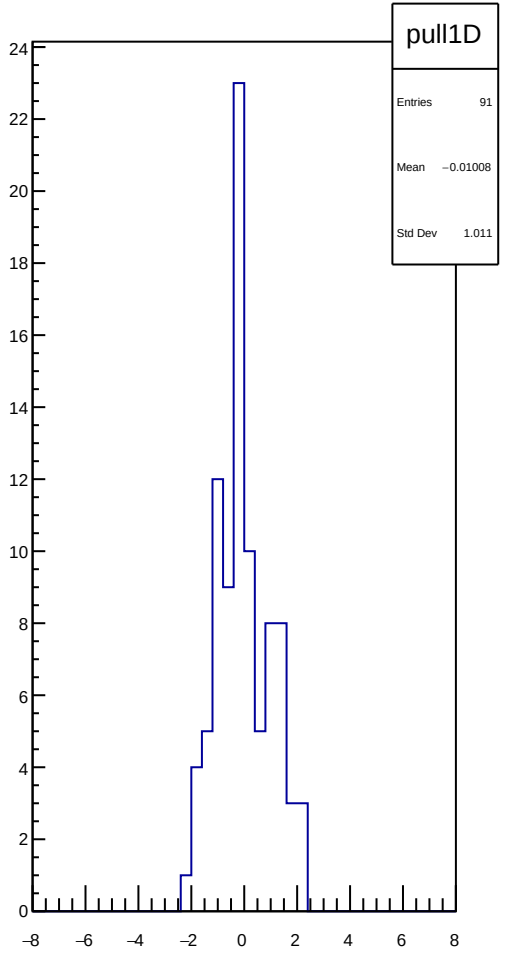

diff_bpm0l09Y_rms vs run
χ² / ndf 8.314e+04 / 90
p0 2686 ± 2.081
4500
4000
3500
3000
2500
2000

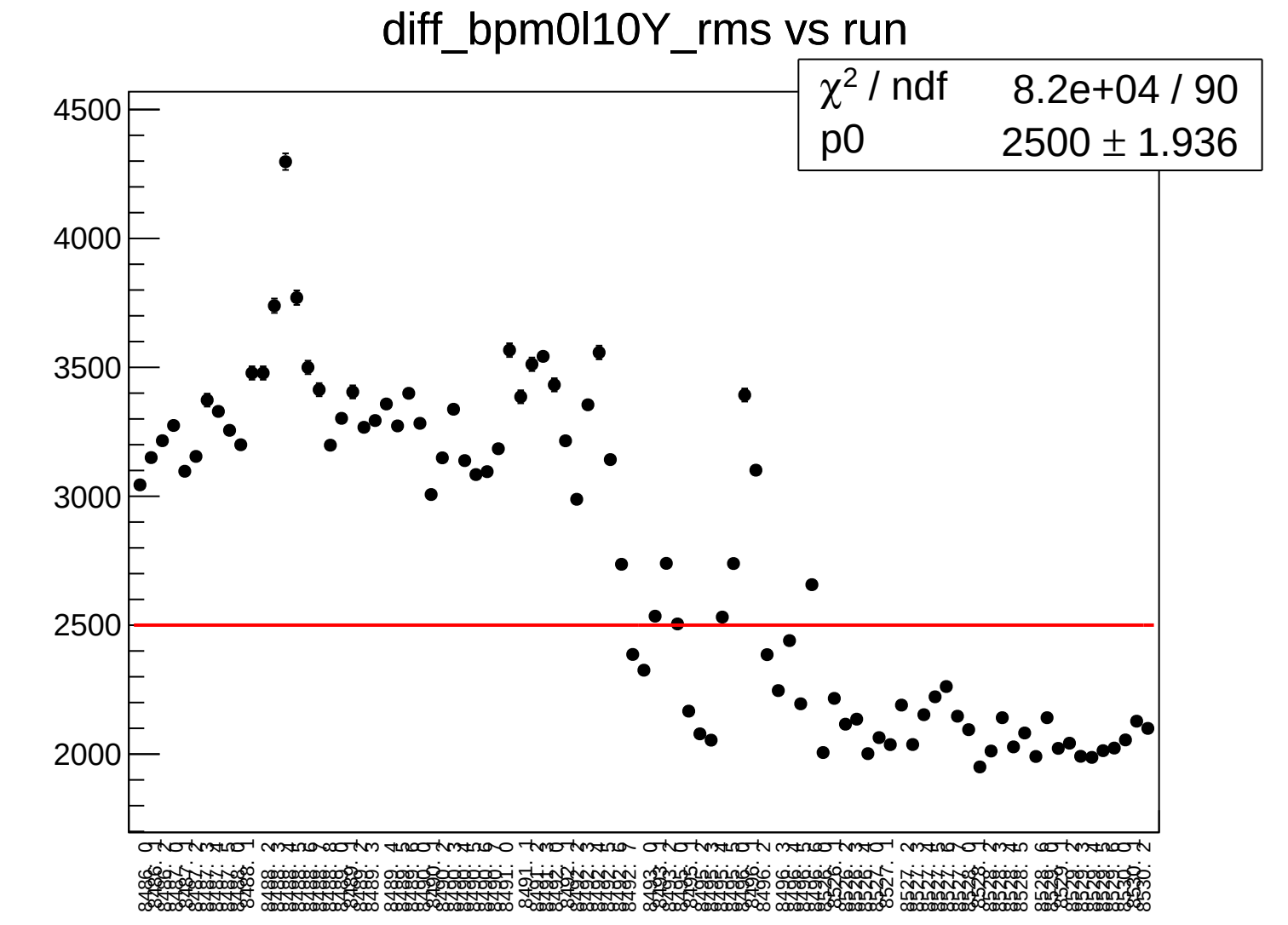

diff_bpm0l10X_mean vs run
χ² / ndf 99.91 / 90
p0 0.5861 ± 10.05
pull
Entries 91
Mean −280.4
Std Dev 0

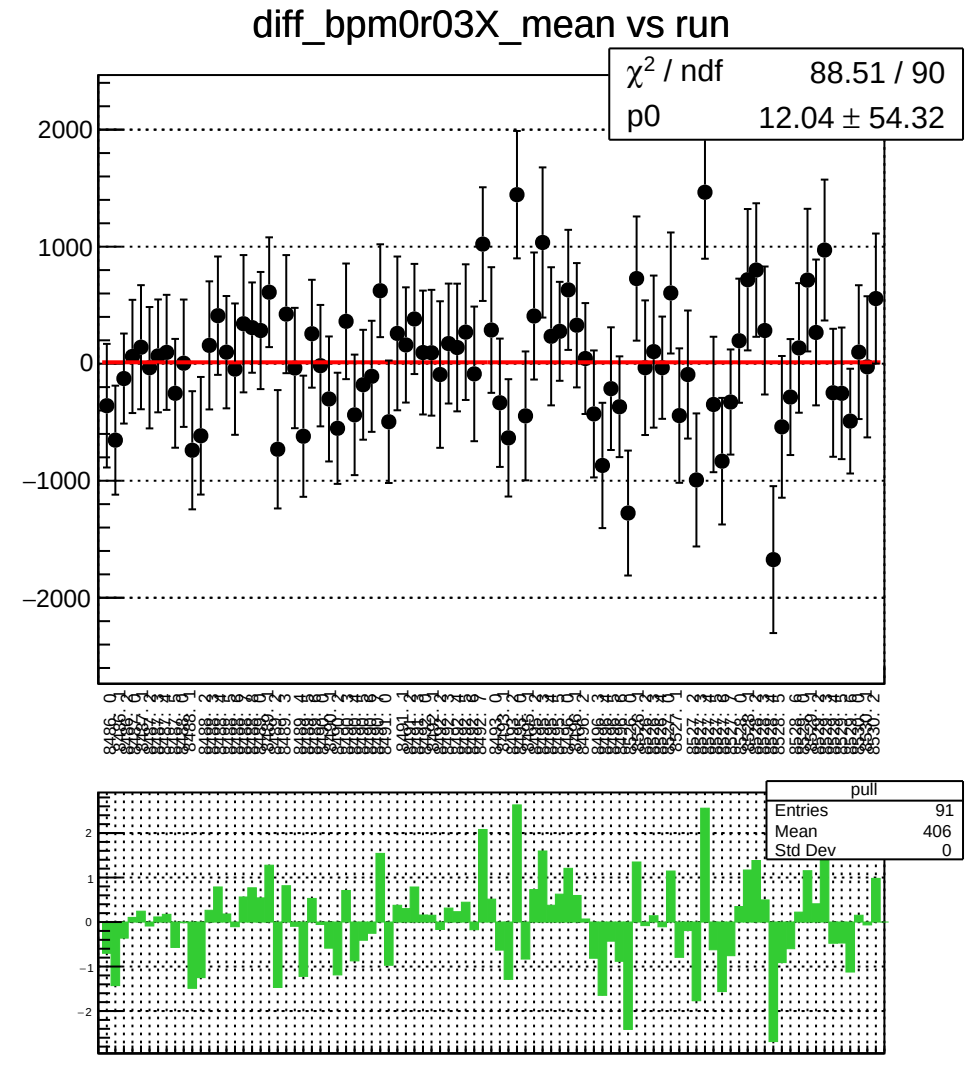

pull1D
Entries 91
Mean 0.004472
Std Dev 1.048

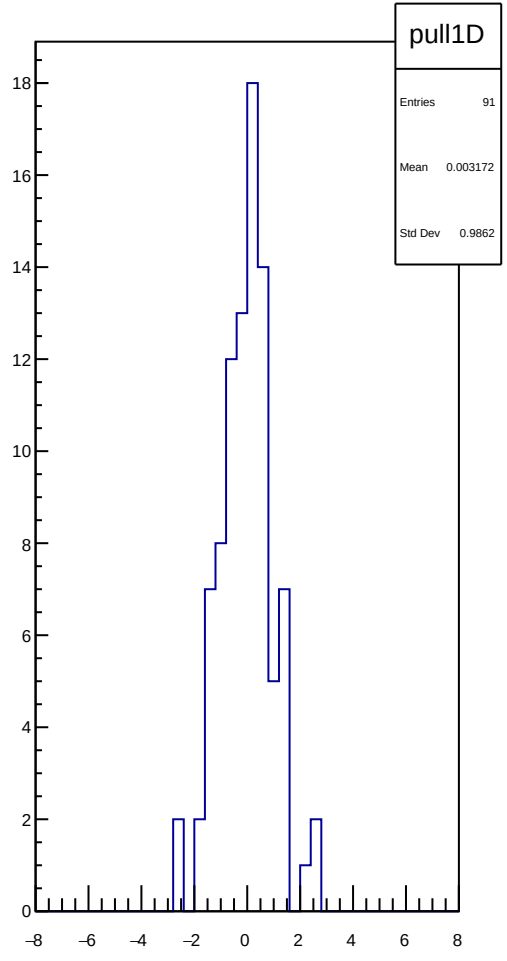

diff_bpm0l10X_rms vs run
χ² / ndf 5.04e+04 / 90
p0 9259 ± 7.104
13000
12000
11000
10000
9000
8000
7000

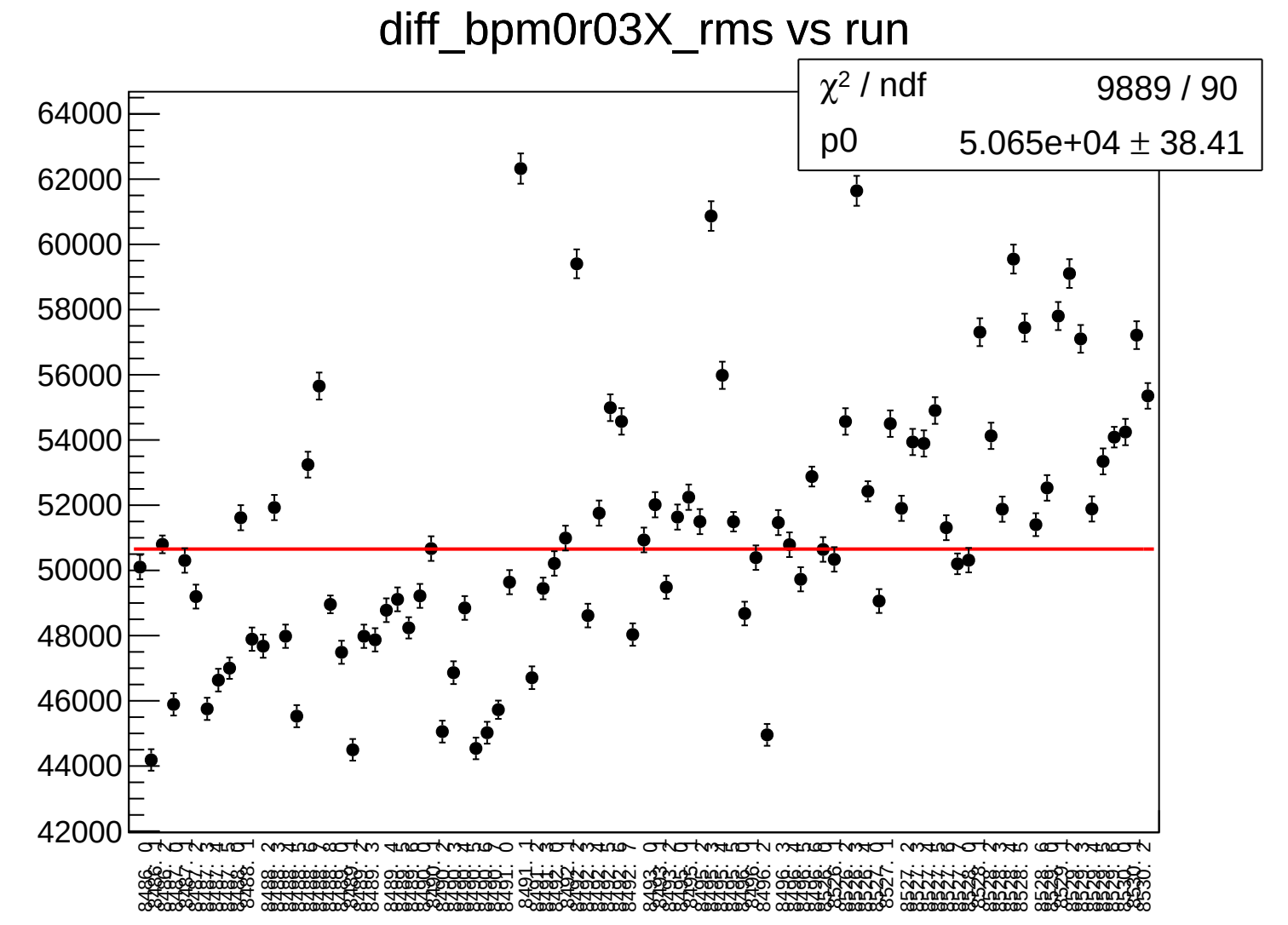

diff_bpm0l10Y_mean vs run
χ² / ndf 93.08 / 90
p0 −37.52 ± 2.738
50
0
−50
−100
−150
pull
Entries 91
Mean −152
Std Dev 0
2
1
0
−1
−2

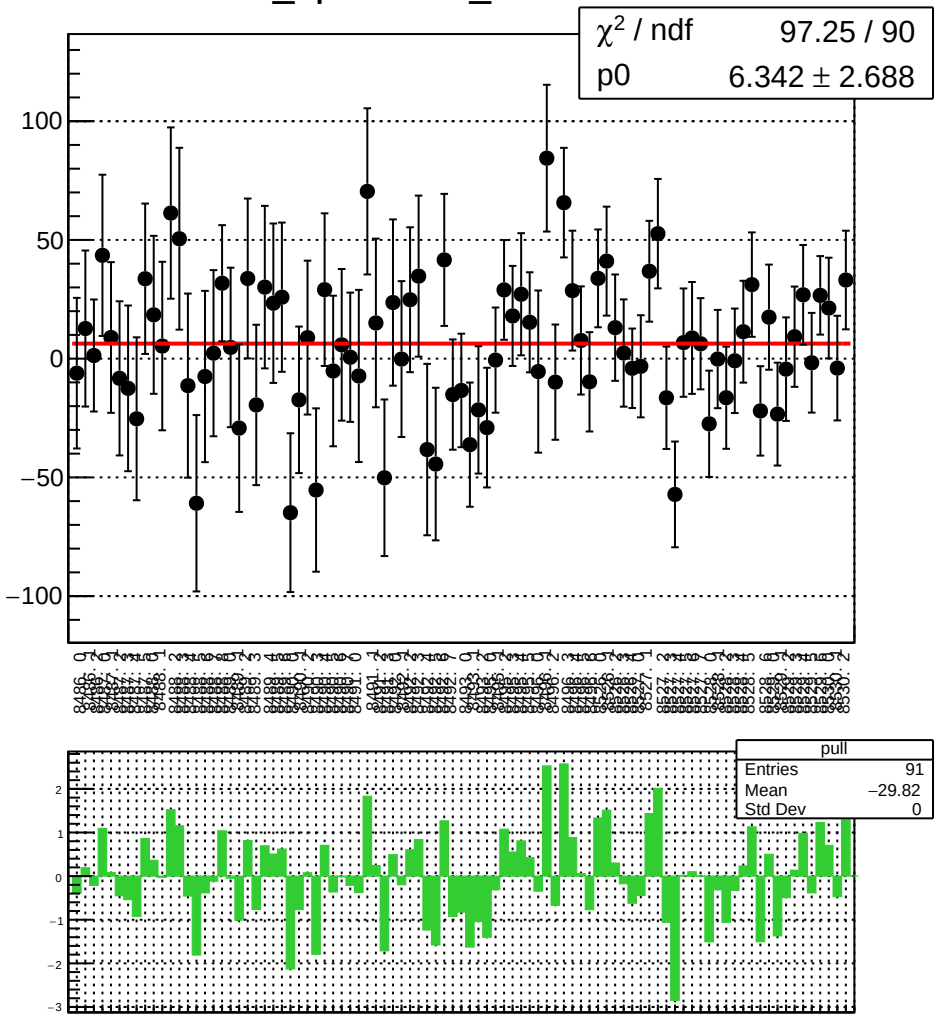

pull1D
Entries 91
Mean −0.01008
Std Dev 1.011
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

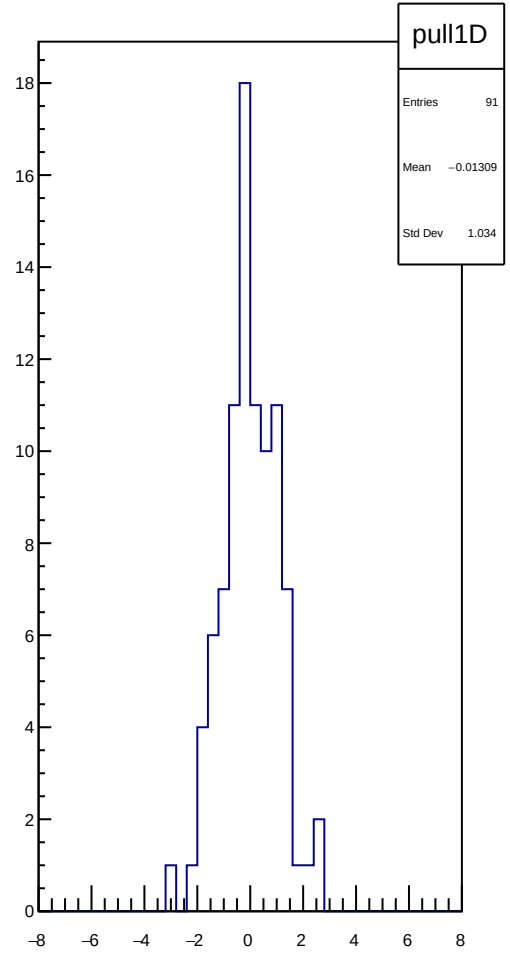

diff_bpm0l10Y_rms vs run
χ² / ndf 8.2e+04 / 90
p0 2500 ± 1.936
4500
4000
3500
3000
2500
2000

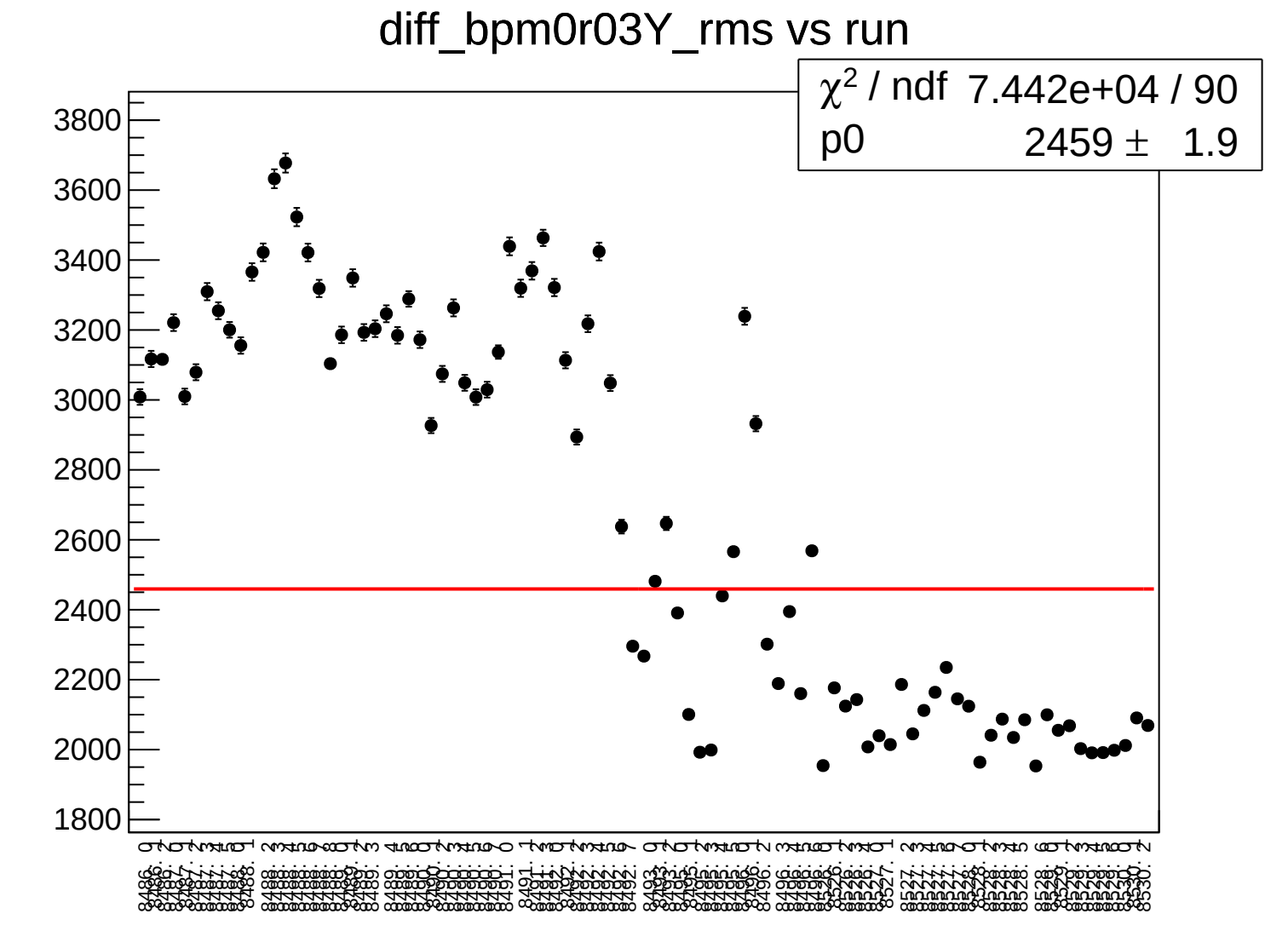

diff_bpm0r03X_mean vs run
χ² / ndf 88.51 / 90
p0 12.04 ± 54.32
2000
1000
0
−1000
−2000
pull
Entries 91
Mean 406
Std Dev 0
2
1
0
−1
−2

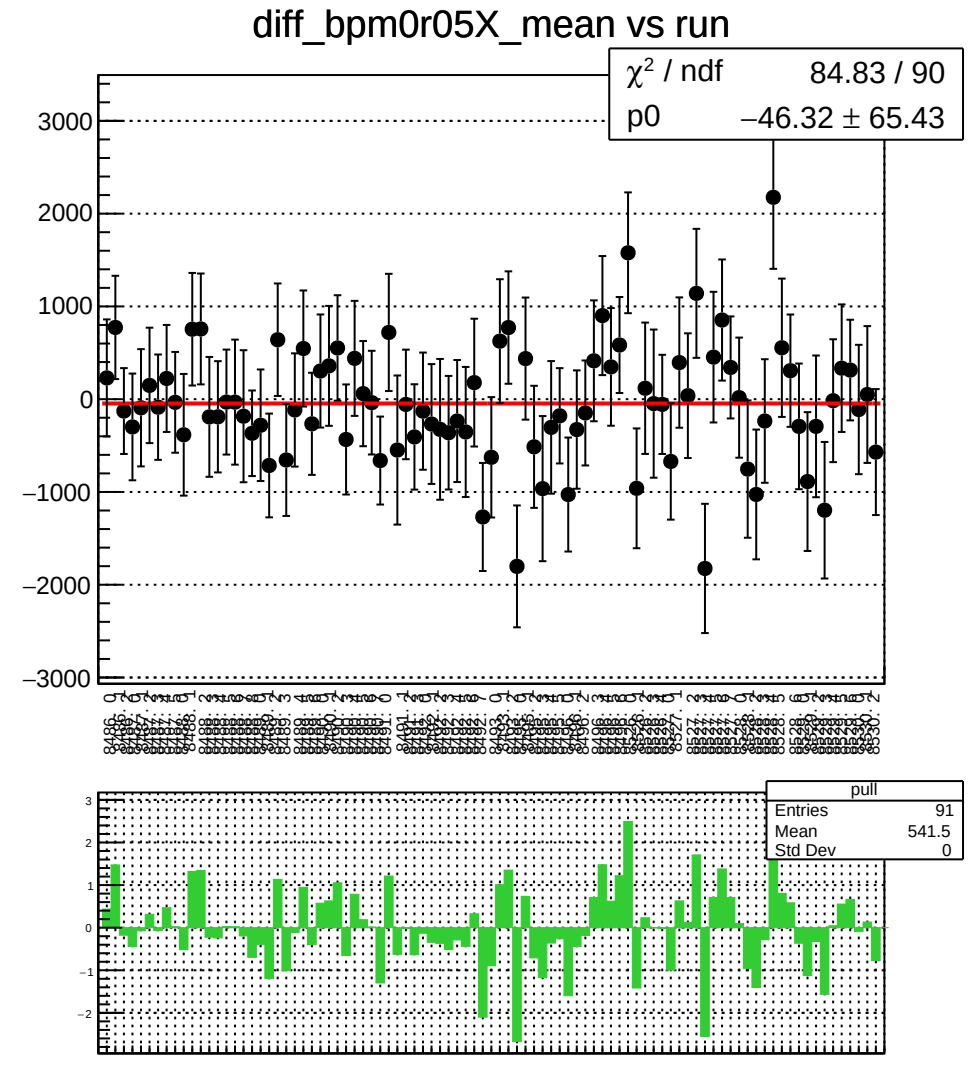

pull1D
Entries 91
Mean 0.003172
Std Dev 0.9862
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

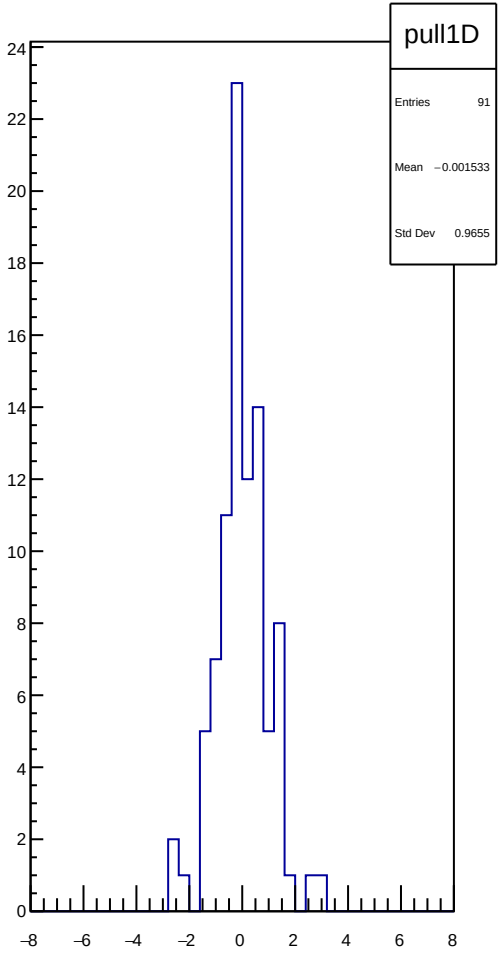

diff_bpm0r03X_rms vs run
χ² / ndf 9889 / 90
p0 5.065e+04 ± 38.41
64000
62000
60000
58000
56000
54000
52000
50000
48000
46000
44000
42000

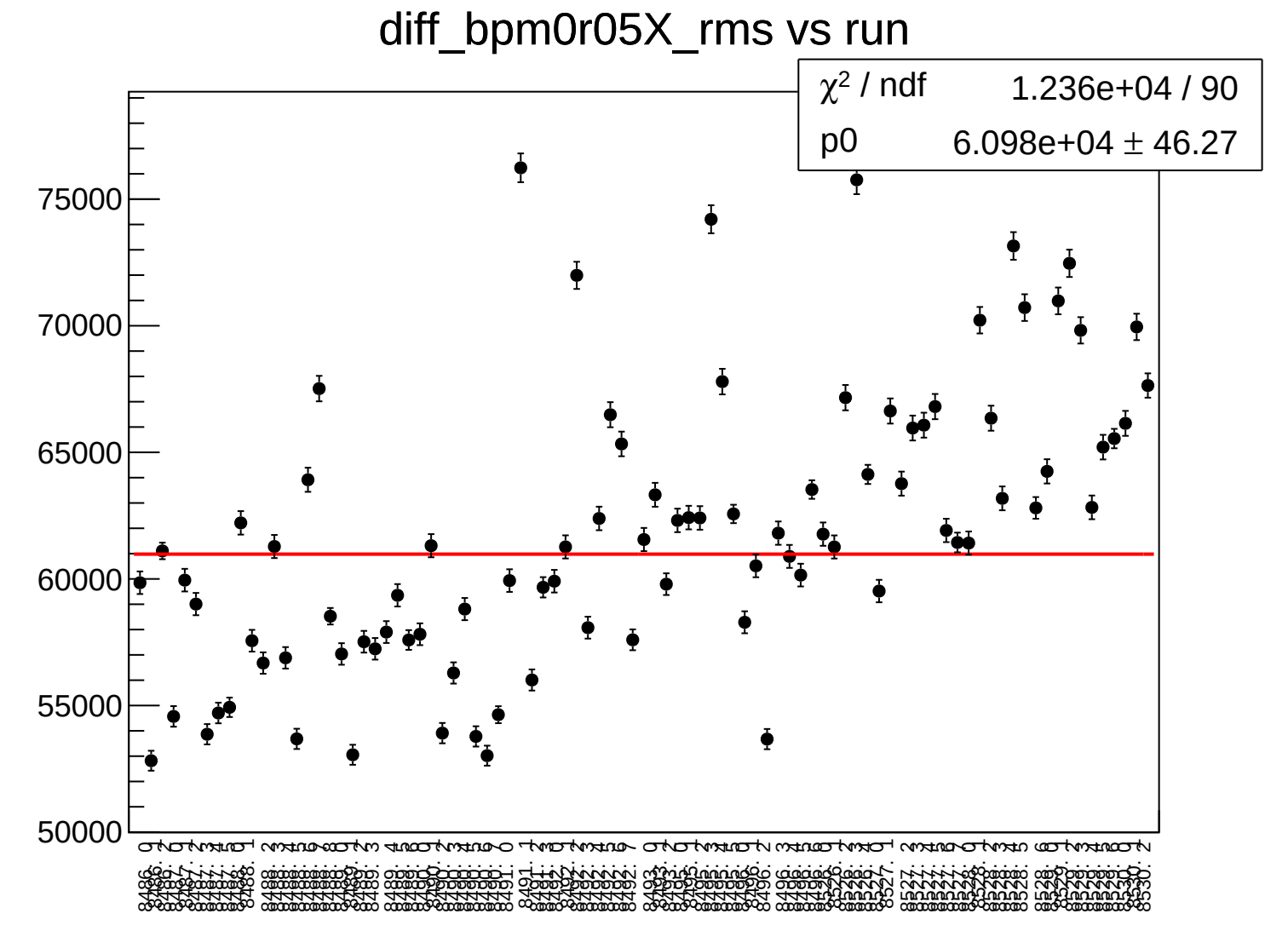

diff_bpm0r03Y_mean vs run
χ² / ndf 97.25 / 90
p0 6.342 ± 2.688
100
50
0
−50
−100
pull
Entries 91
Mean −29.82
Std Dev 0
2
1
0
−1
−2
−3

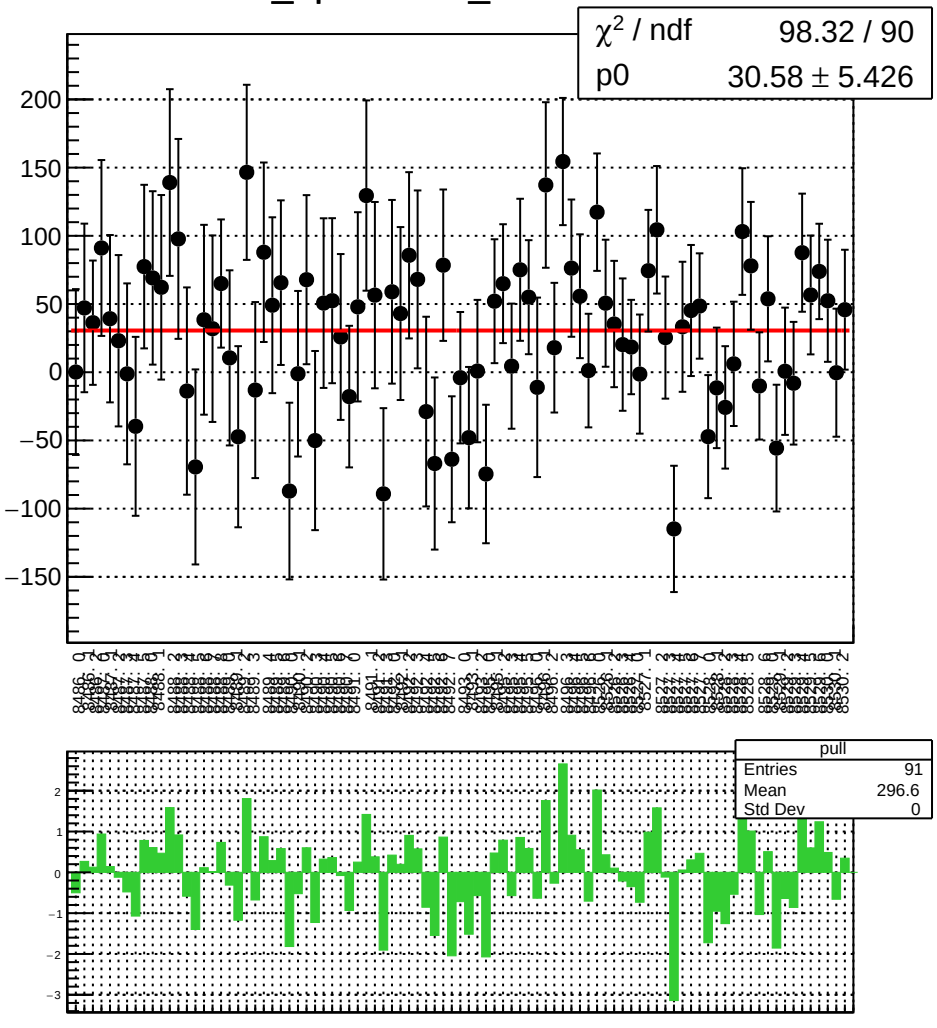

pull1D
Entries 91
Mean −0.01309
Std Dev 1.034
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

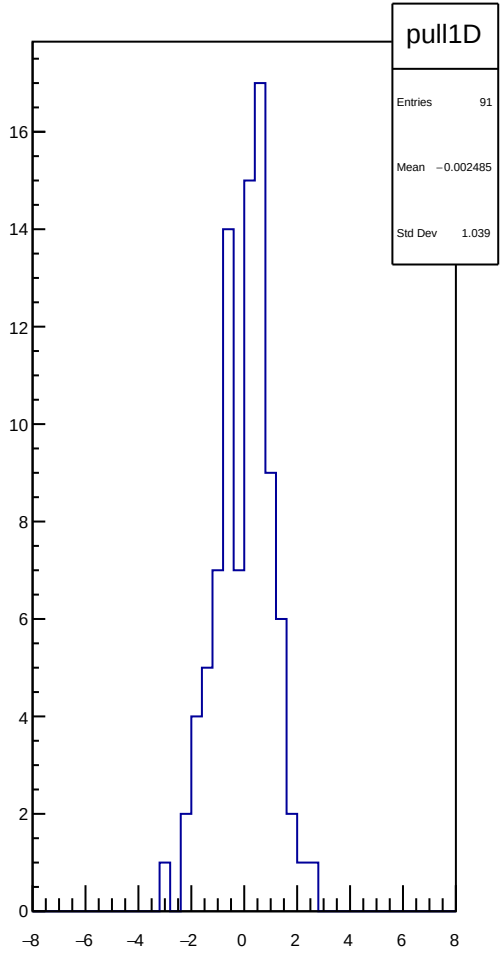

diff_bpm0r03Y_rms vs run
χ² / ndf 7.442e+04 / 90
p0 2459 ± 1.9
3800
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800

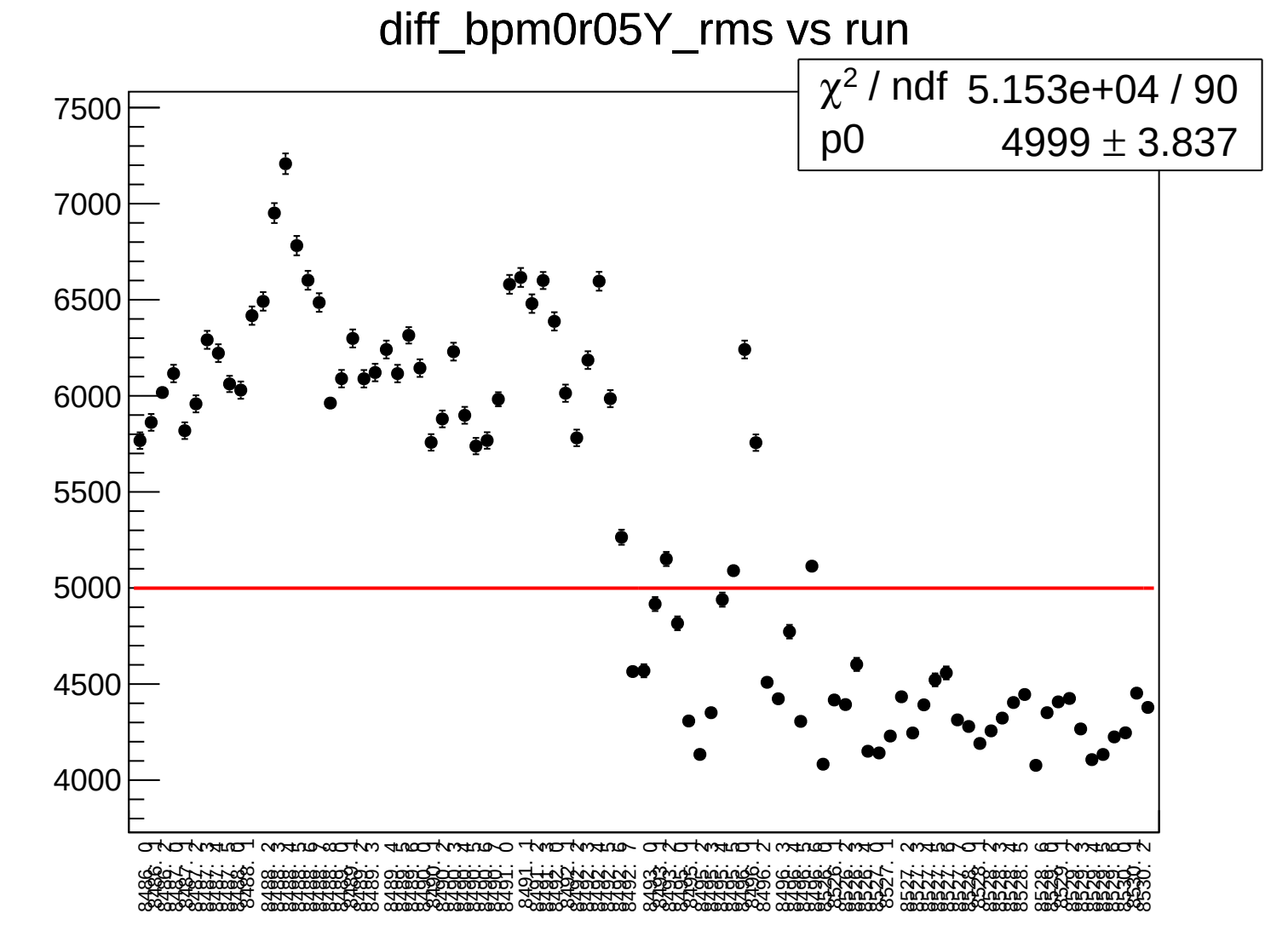

diff_bpm0r05X_mean vs run
χ² / ndf 84.83 / 90
p0 −46.32 ± 65.43
pull
Entries 91
Mean 541.5
Std Dev 0

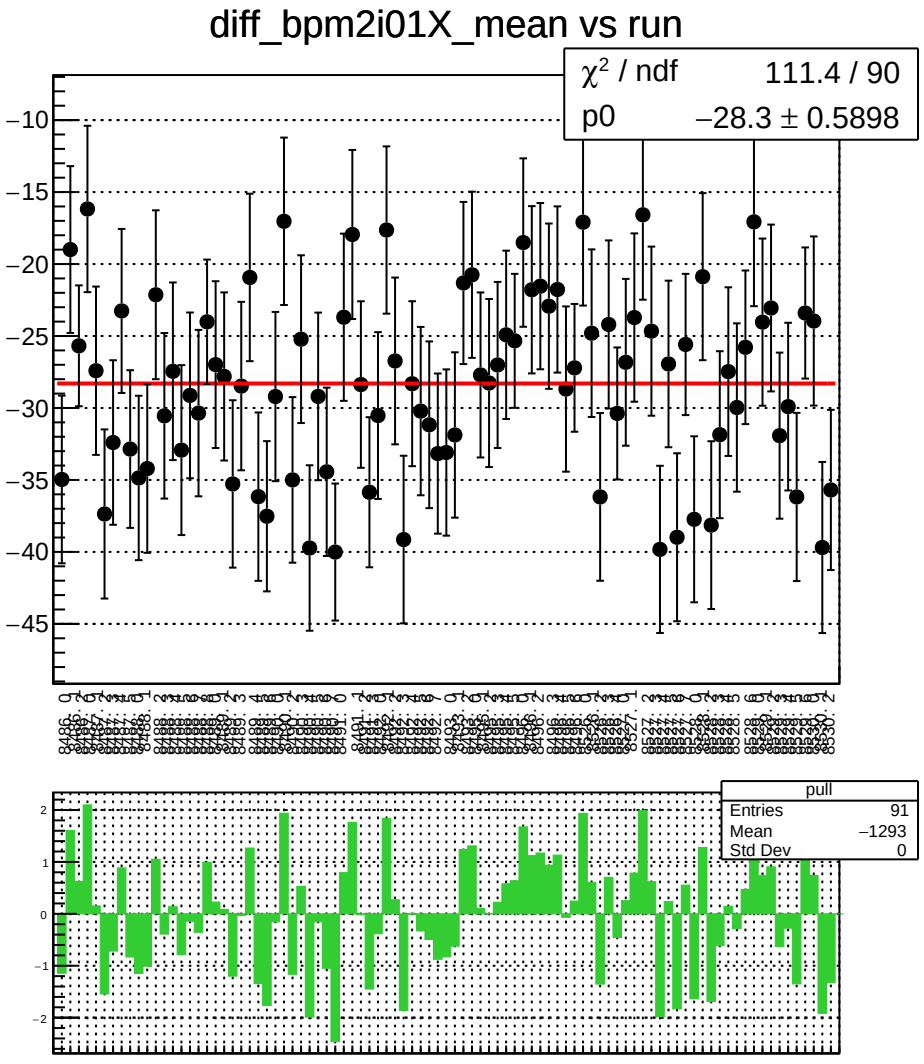

pull1D
Entries 91
Mean −0.001533
Std Dev 0.9655

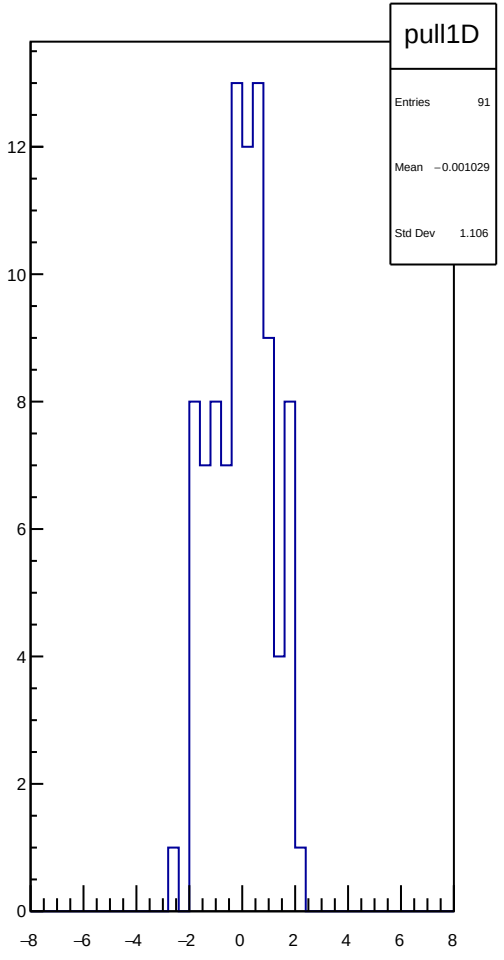

diff_bpm0r05X_rms vs run
χ² / ndf 1.236e+04 / 90
p0 6.098e+04 ± 46.27
75000
70000
65000
60000
55000
50000

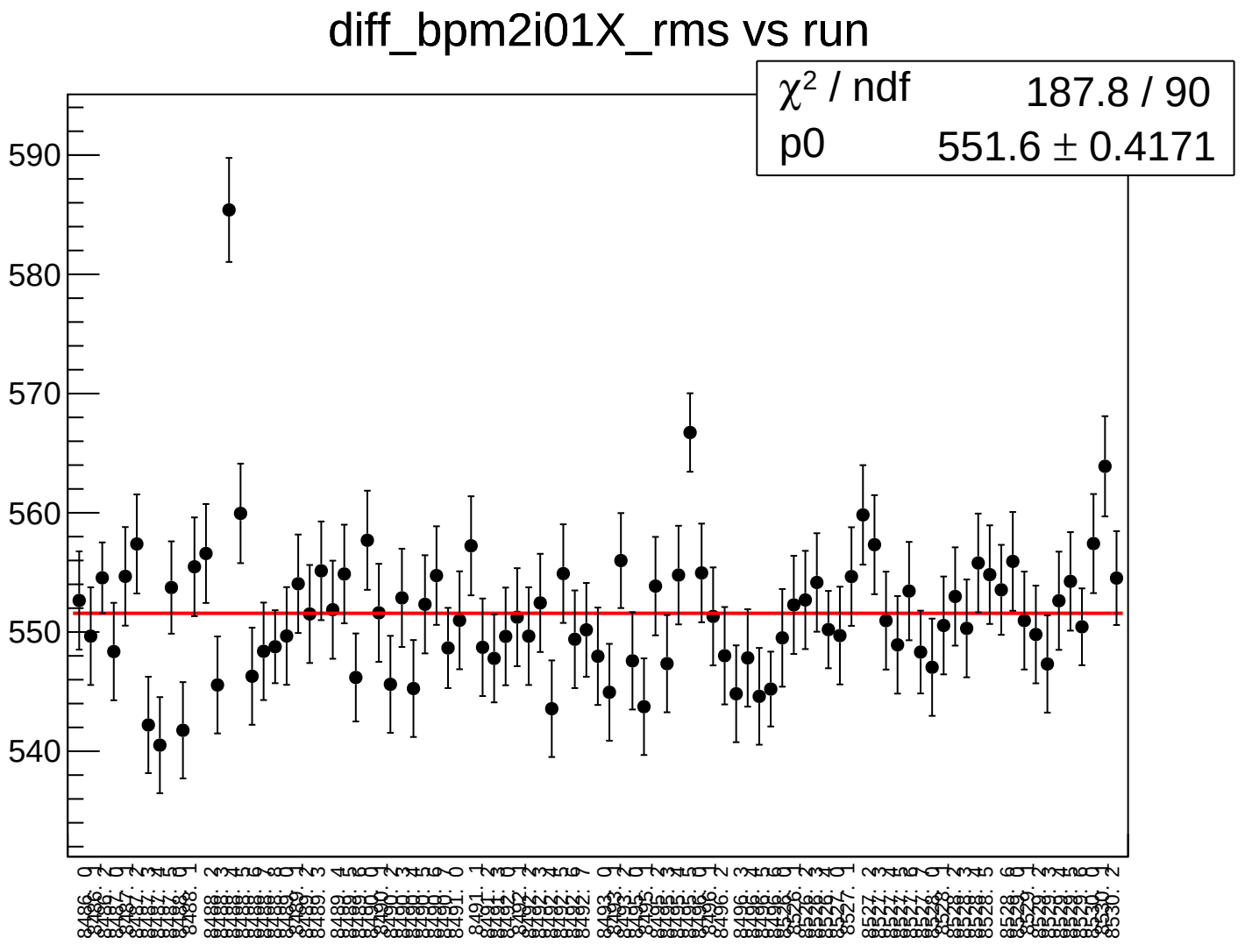

diff_bpm0r05Y_mean vs run
χ^2 / ndf 98.32 / 90
p0 30.58 ± 5.426
pull
Entries 91
Mean 296.6
Std Dev 0

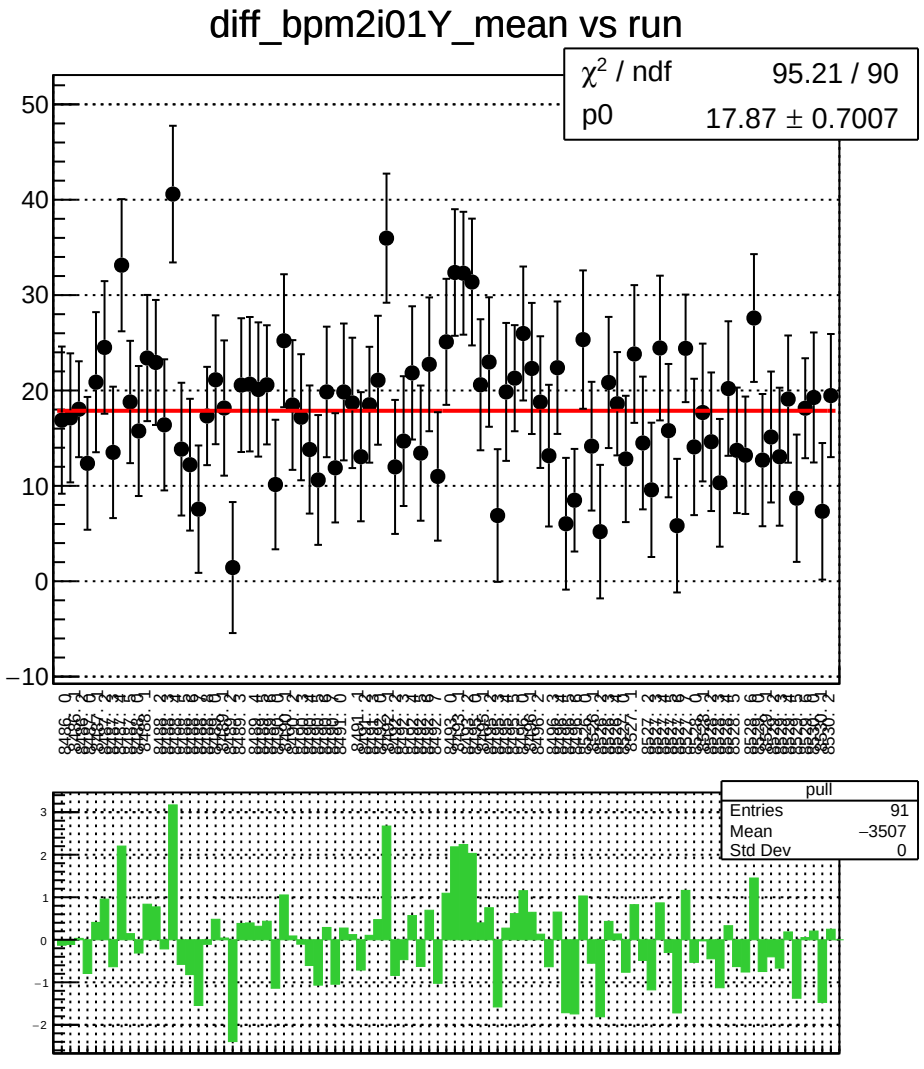

pull1D
Entries 91
Mean −0.002485
Std Dev 1.039

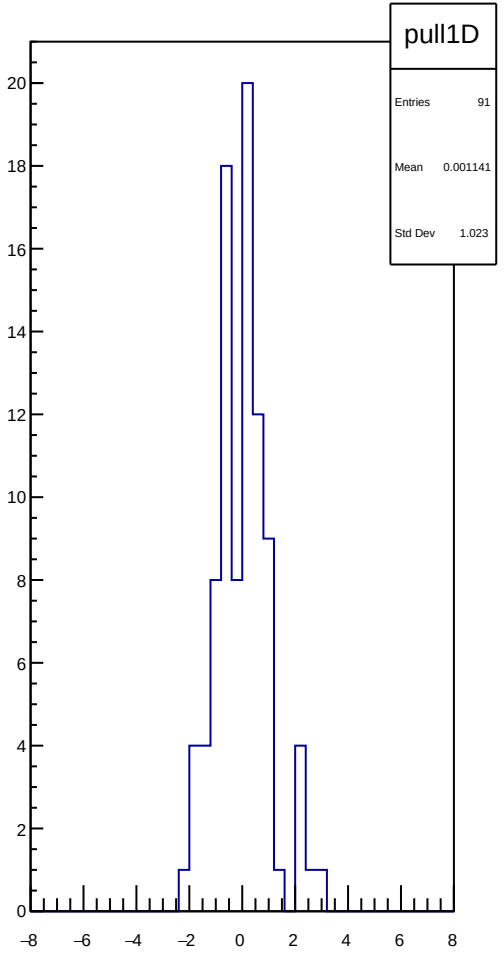

diff_bpm0r05Y_rms vs run
χ² / ndf 5.153e+04 / 90
p0 4999 ± 3.837
7500
7000
6500
6000
5500
5000
4500
4000

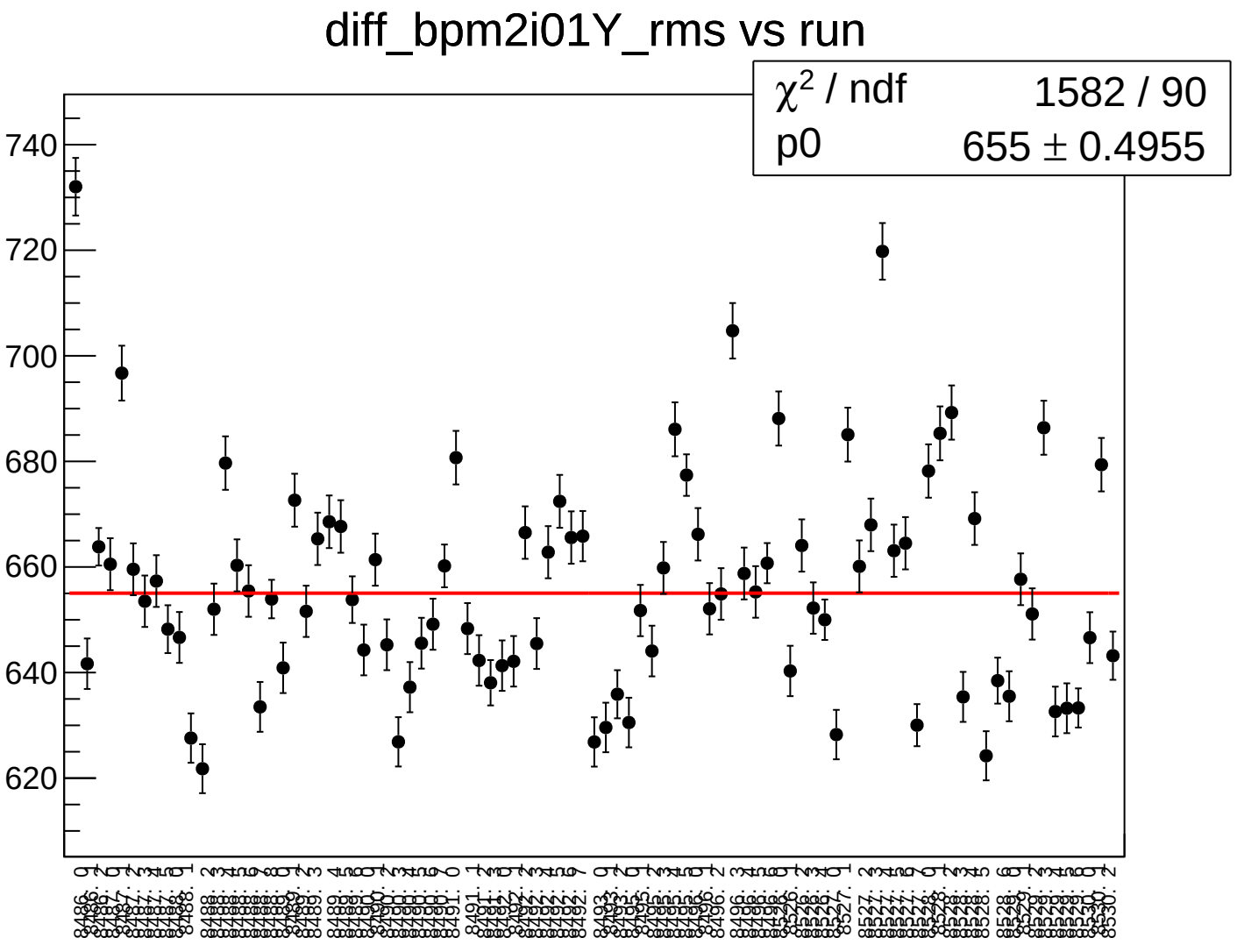

diff_bpm2i01X_mean vs run
χ² / ndf 111.4 / 90
p0 −28.3 ± 0.5898
pull
Entries 91
Mean −1293
Std Dev 0

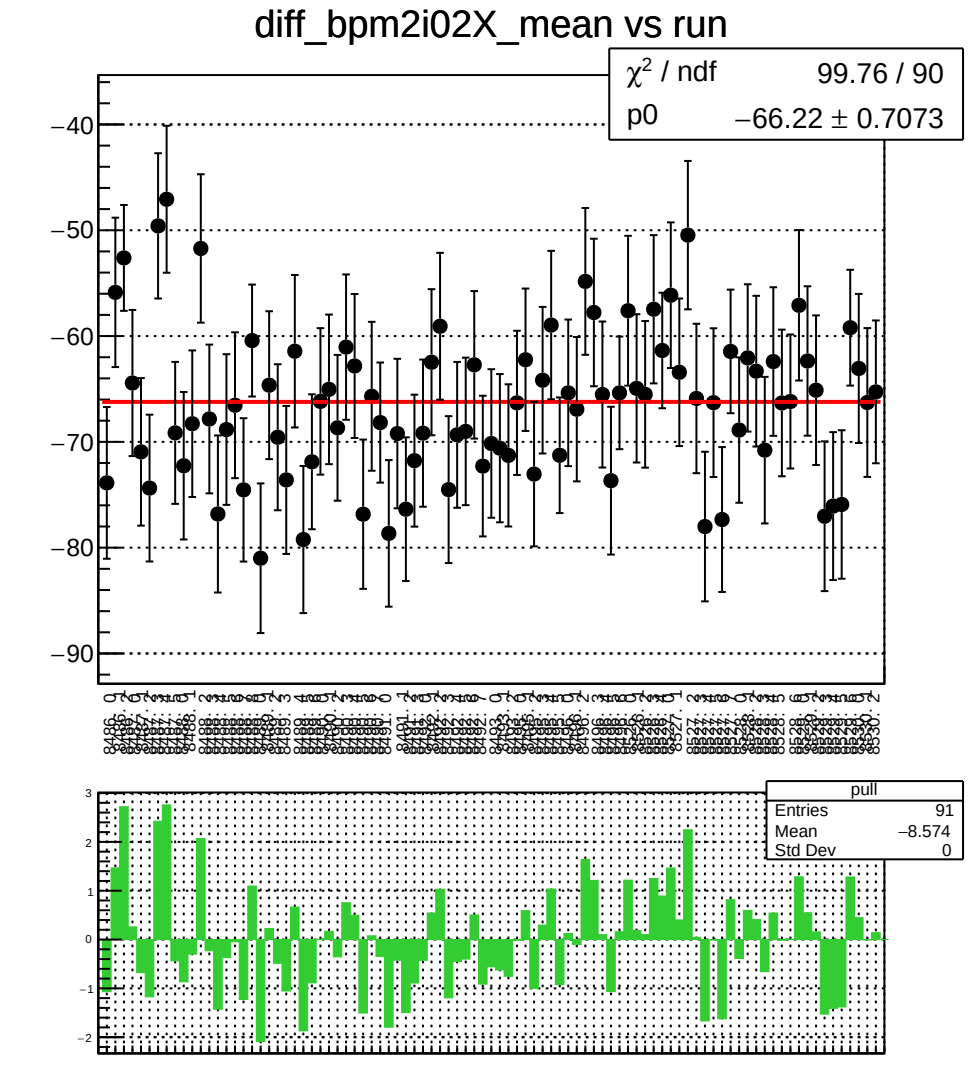

pull1D
Entries 91
Mean −0.001029
Std Dev 1.106

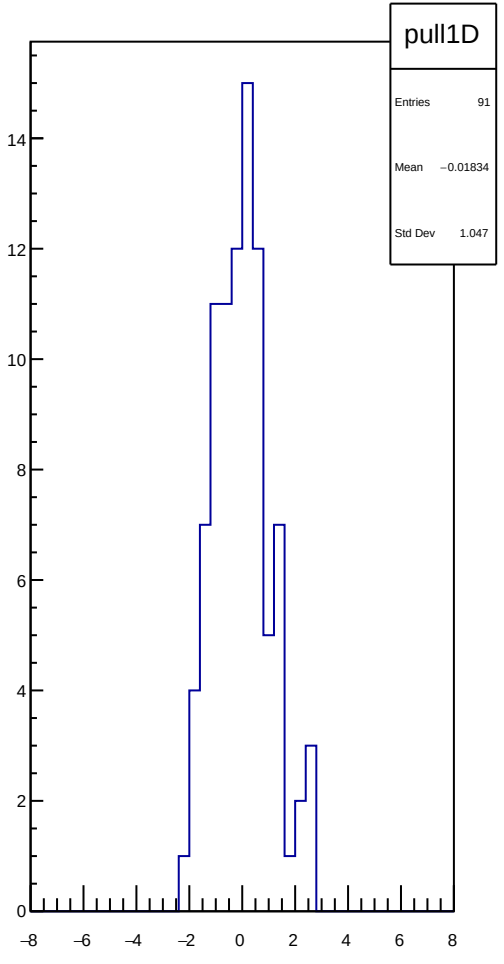

diff_bpm2i01X_rms vs run
χ² / ndf 187.8 / 90
p0 551.6 ± 0.4171
590
580
570
560
550
540

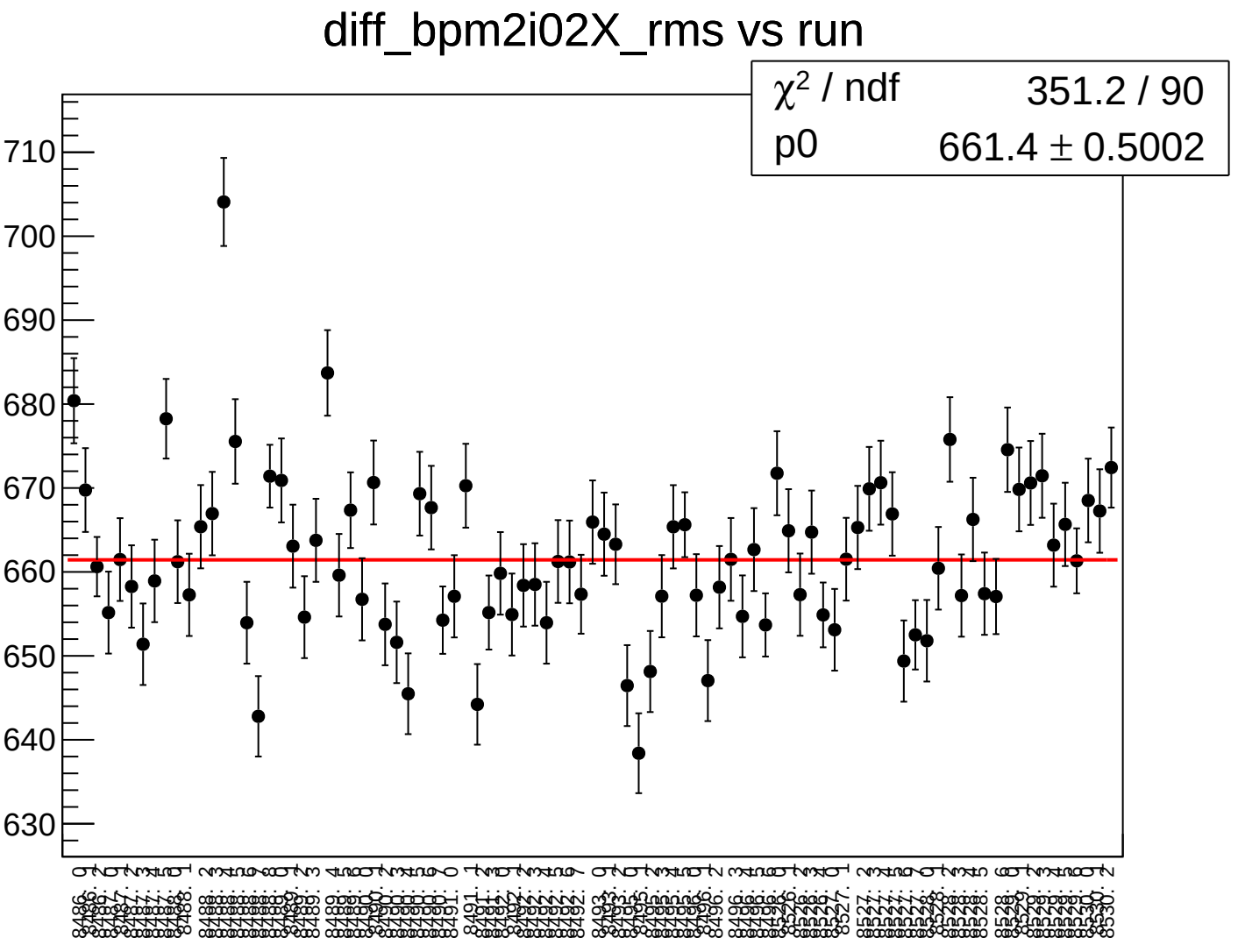

diff_bpm2i01Y_mean vs run
χ^2 / ndf 95.21 / 90
p0 17.87 ± 0.7007
pull
Entries 91
Mean −3507
Std Dev 0

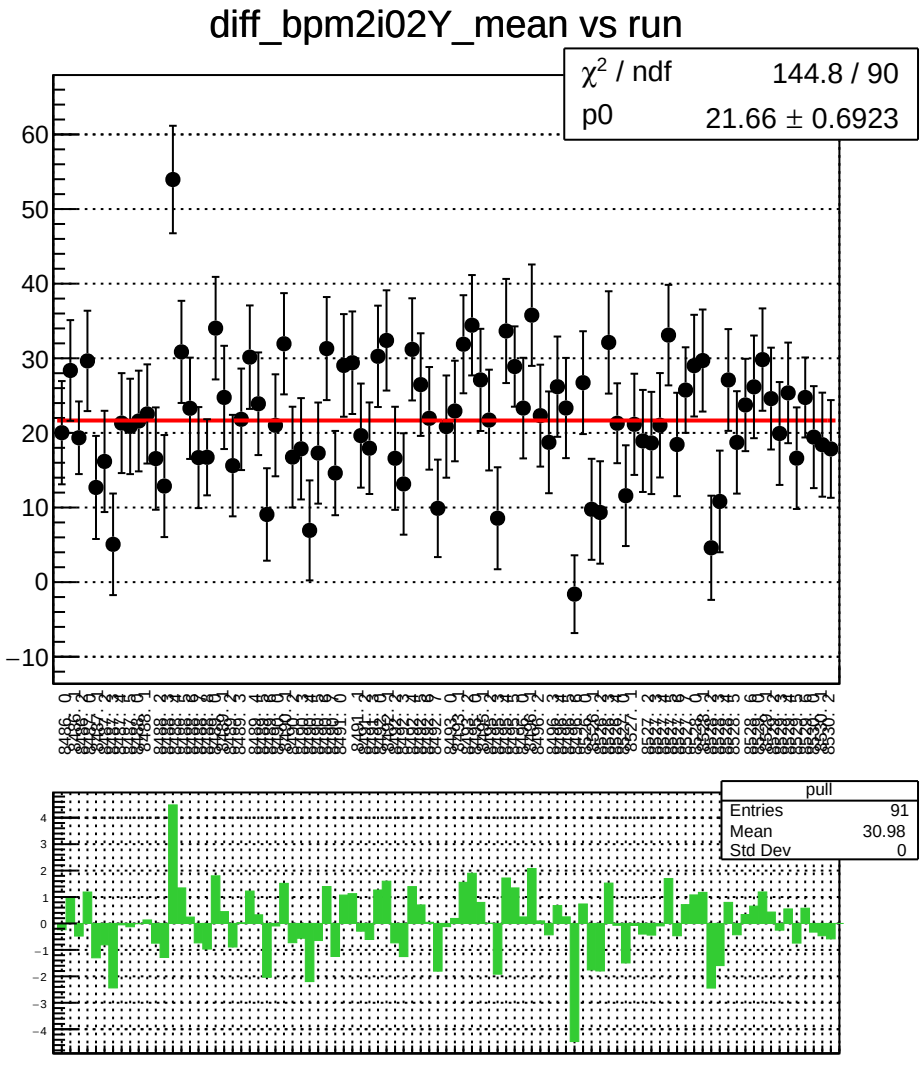

pull1D
Entries 91
Mean 0.001141
Std Dev 1.023

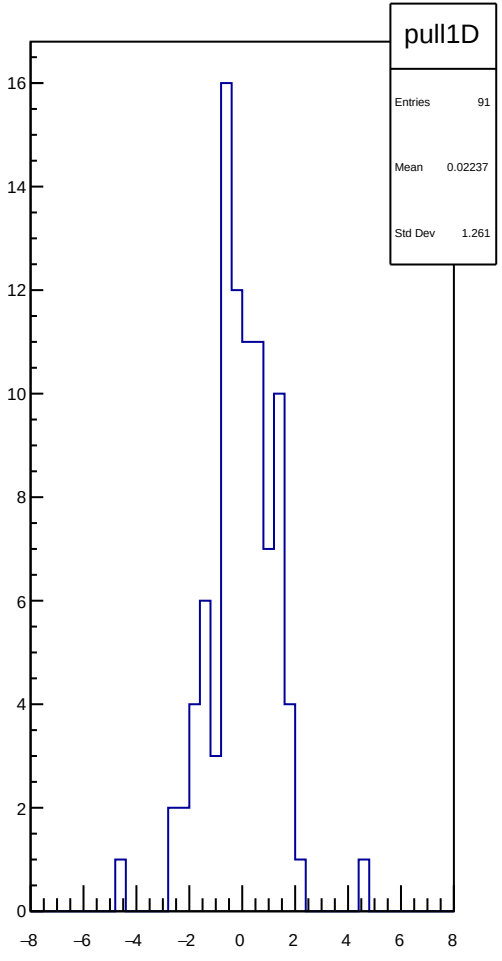

diff_bpm2i01Y_rms vs run
χ^2 / ndf 1582 / 90
p0 655 ± 0.4955
740
720
700
680
660
640
620

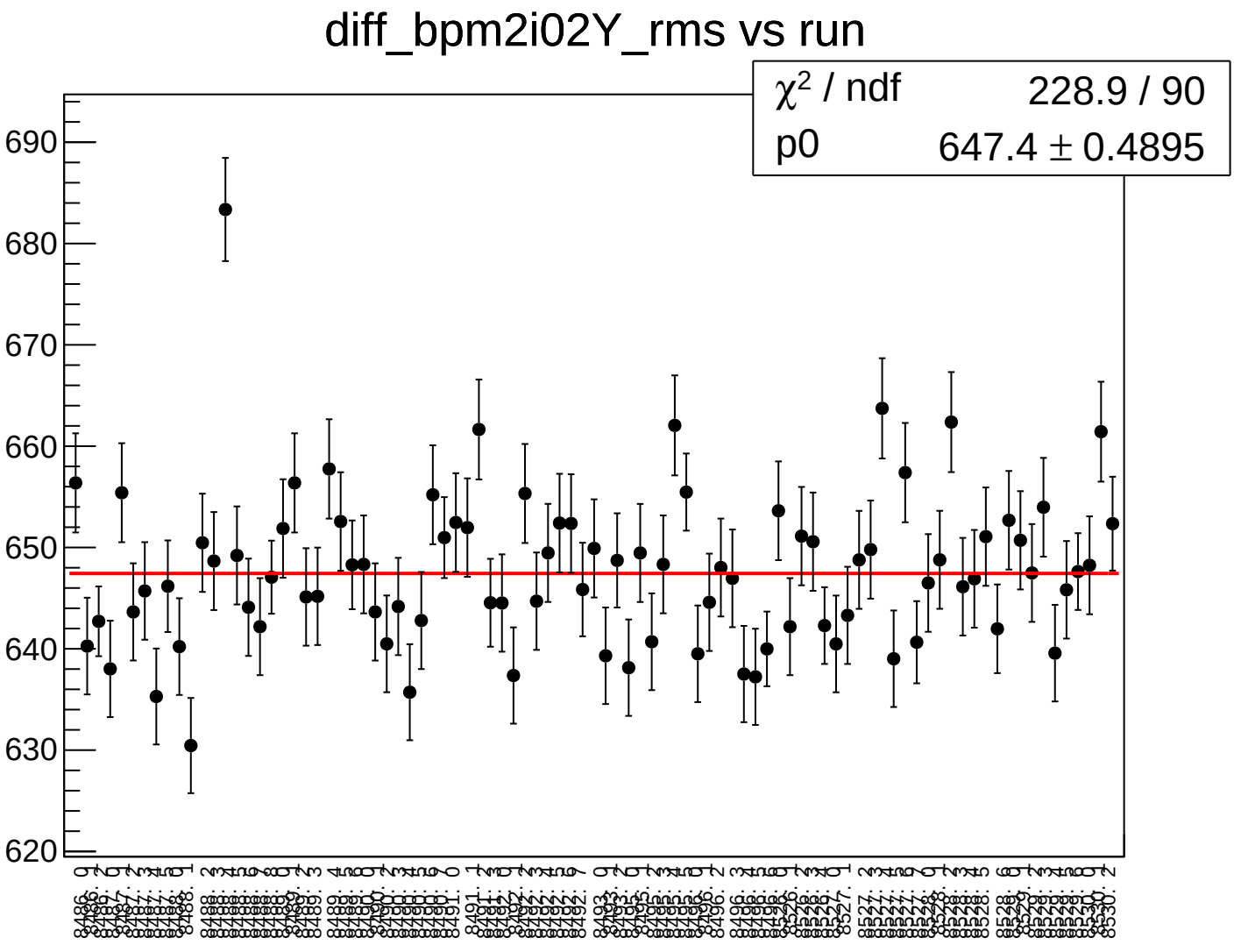

diff_bpm2i02X_mean vs run
χ² / ndf 99.76 / 90
p0 −66.22 ± 0.7073
pull
Entries 91
Mean −8.574
Std Dev 0

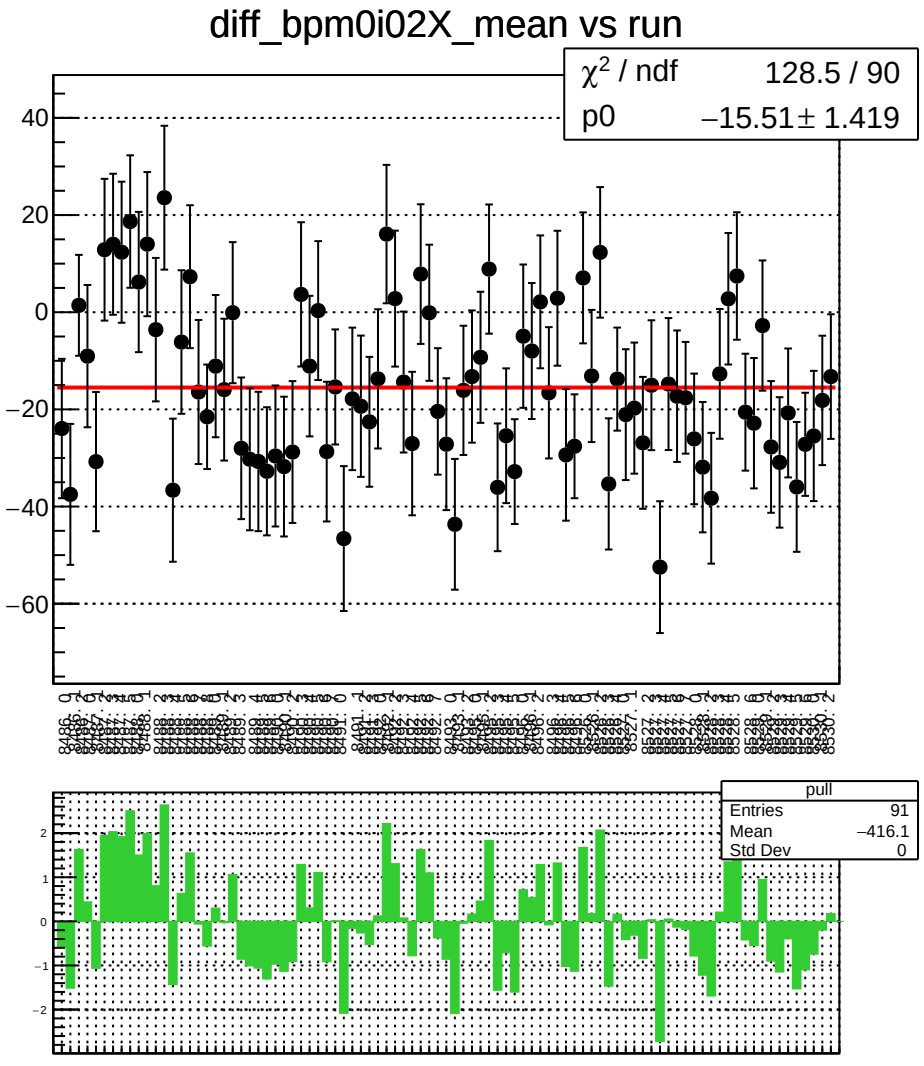

pull1D
Entries 91
Mean −0.01834
Std Dev 1.047

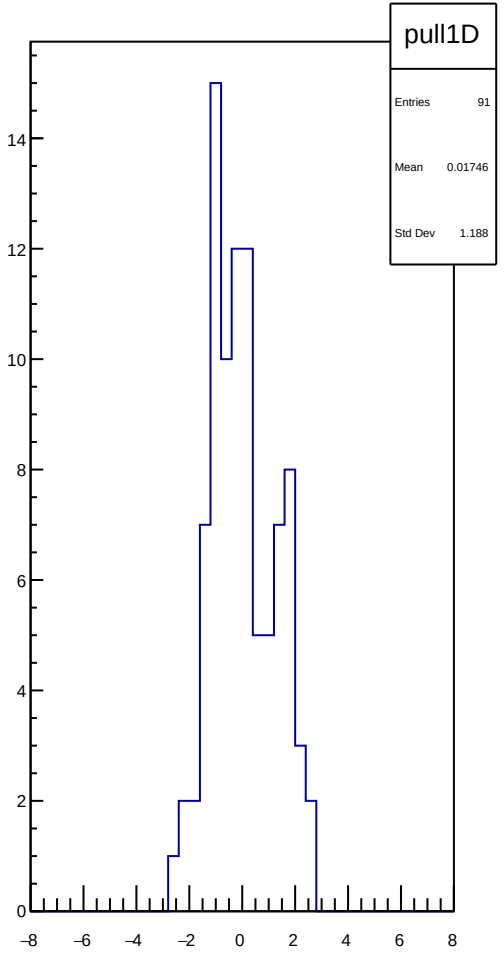

diff_bpm2i02X_rms vs run
χ² / ndf 351.2 / 90
p0 661.4 ± 0.5002
710
700
690
680
670
660
650
640
630

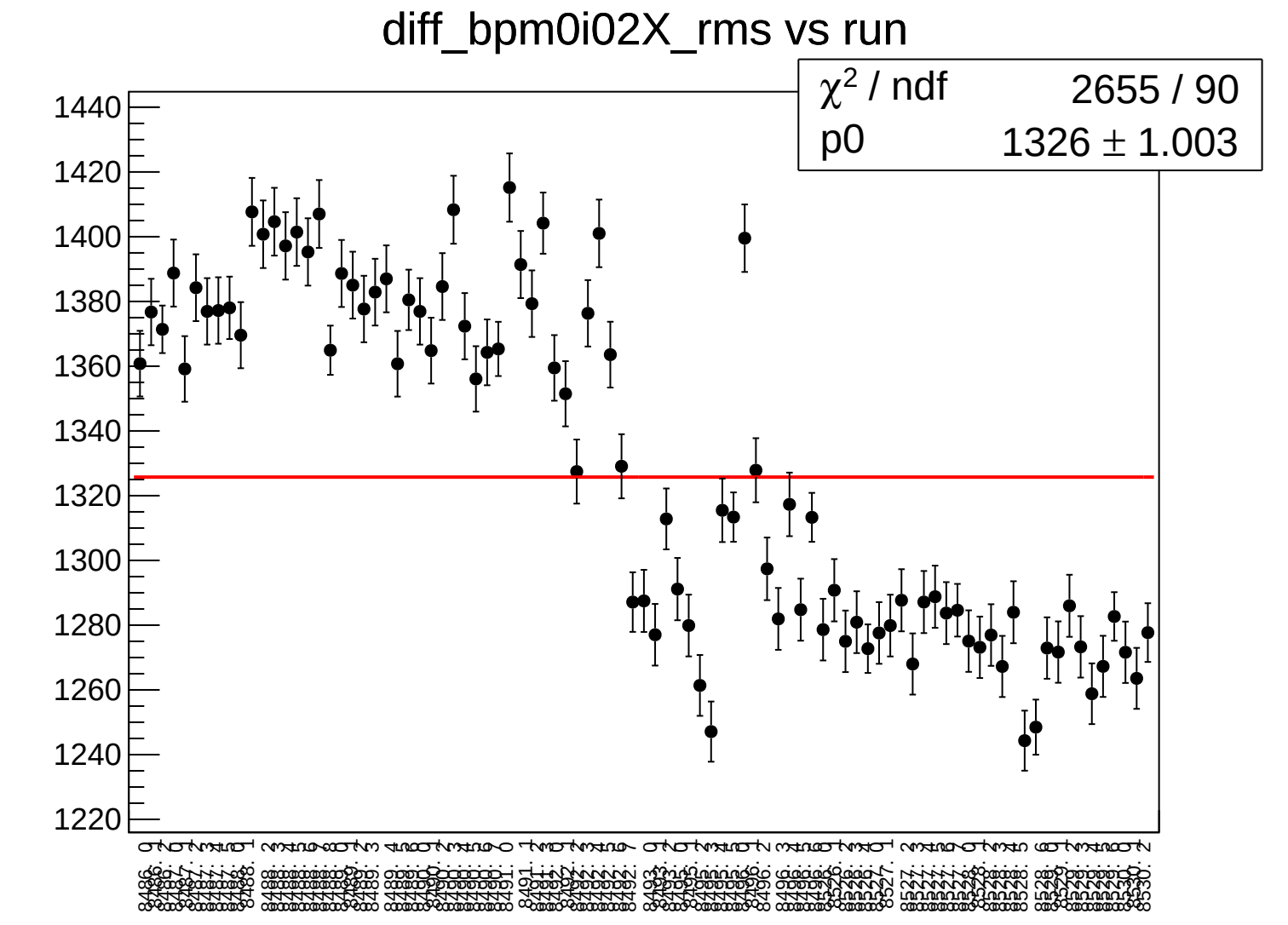

diff_bpm2i02Y_mean vs run
χ² / ndf 144.8 / 90
p0 21.66 ± 0.6923
pull
Entries 91
Mean 30.98
Std Dev 0

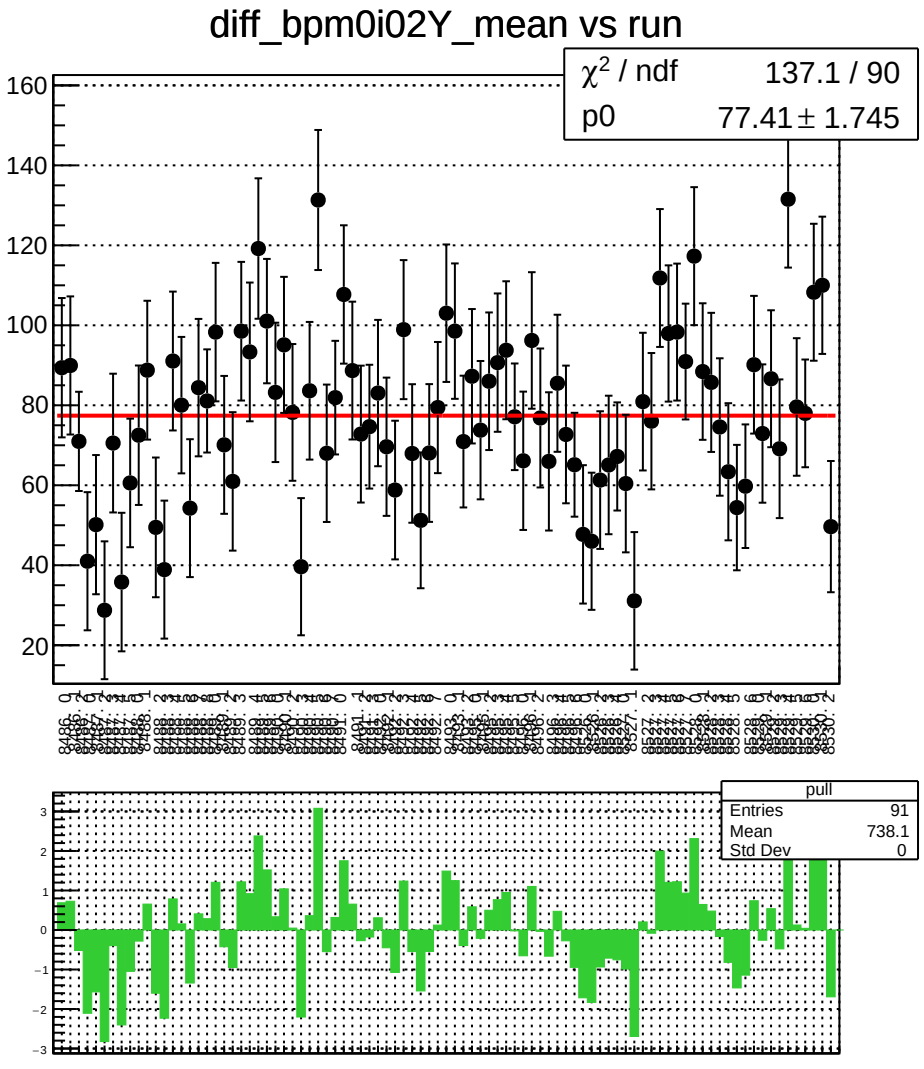

pull1D
Entries 91
Mean 0.02237
Std Dev 1.261

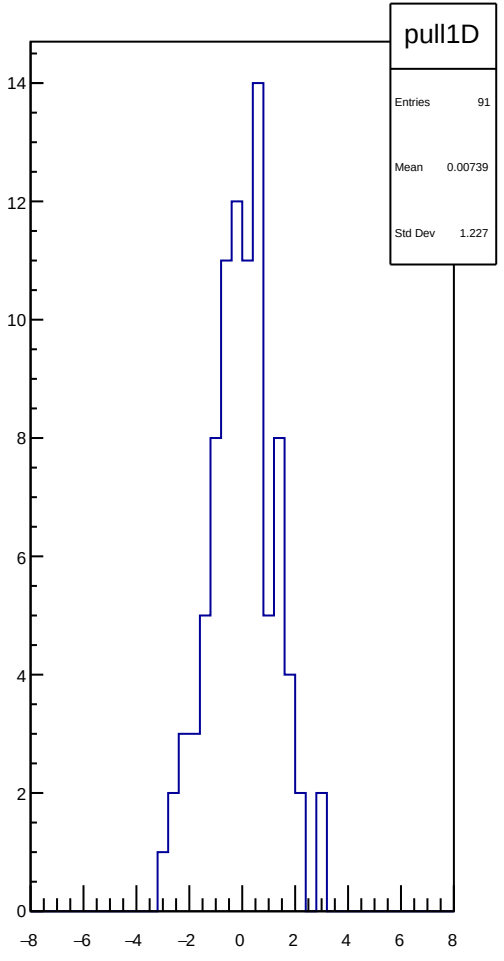

diff_bpm2i02Y_rms vs run
χ² / ndf 228.9 / 90
p0 647.4 ± 0.4895
690
680
670
660
650
640
630
620

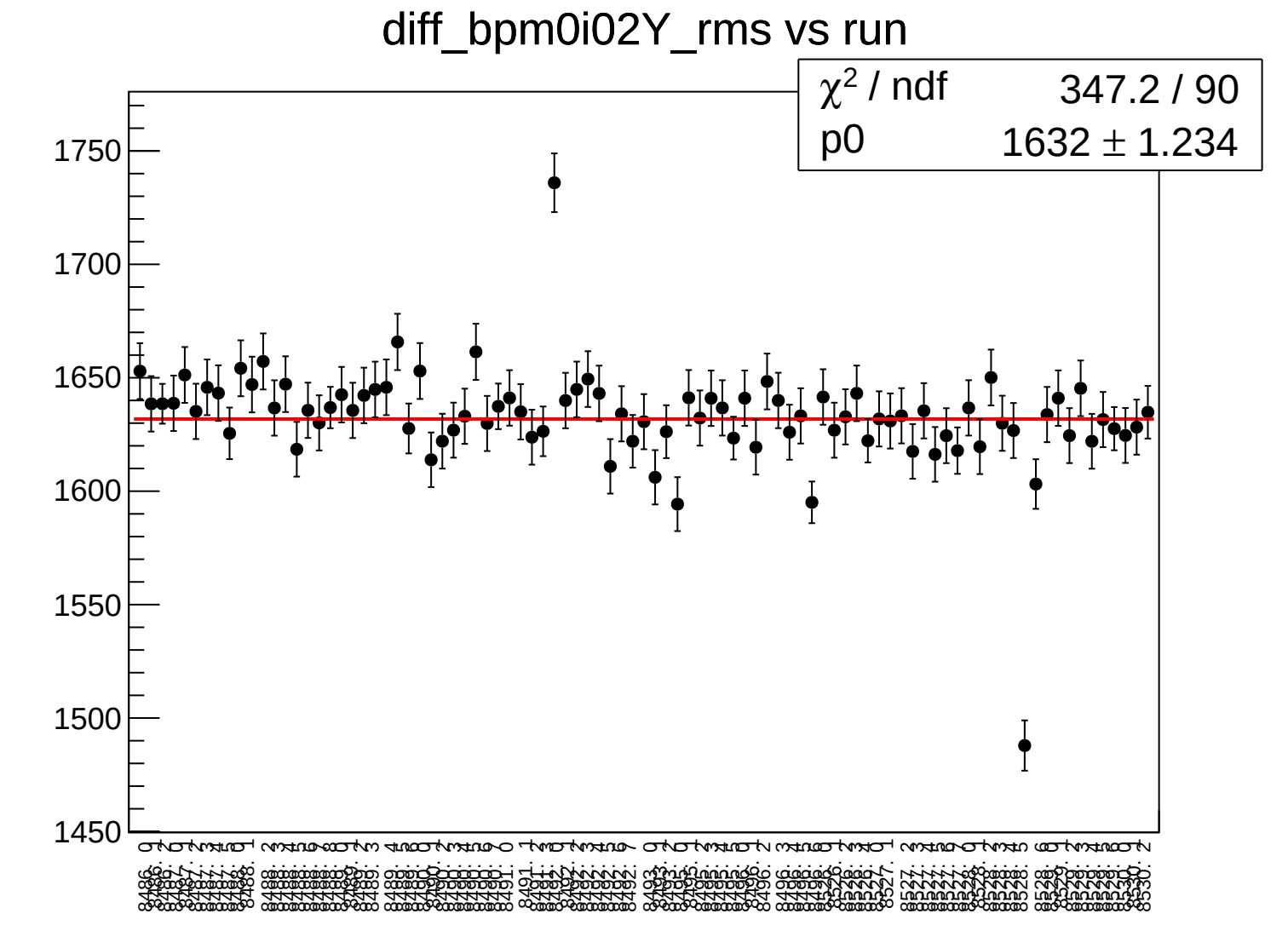

diff_bpm0i02X_mean vs run
χ² / ndf 128.5 / 90
p0 −15.51 ± 1.419
pull
Entries 91
Mean −416.1
Std Dev 0

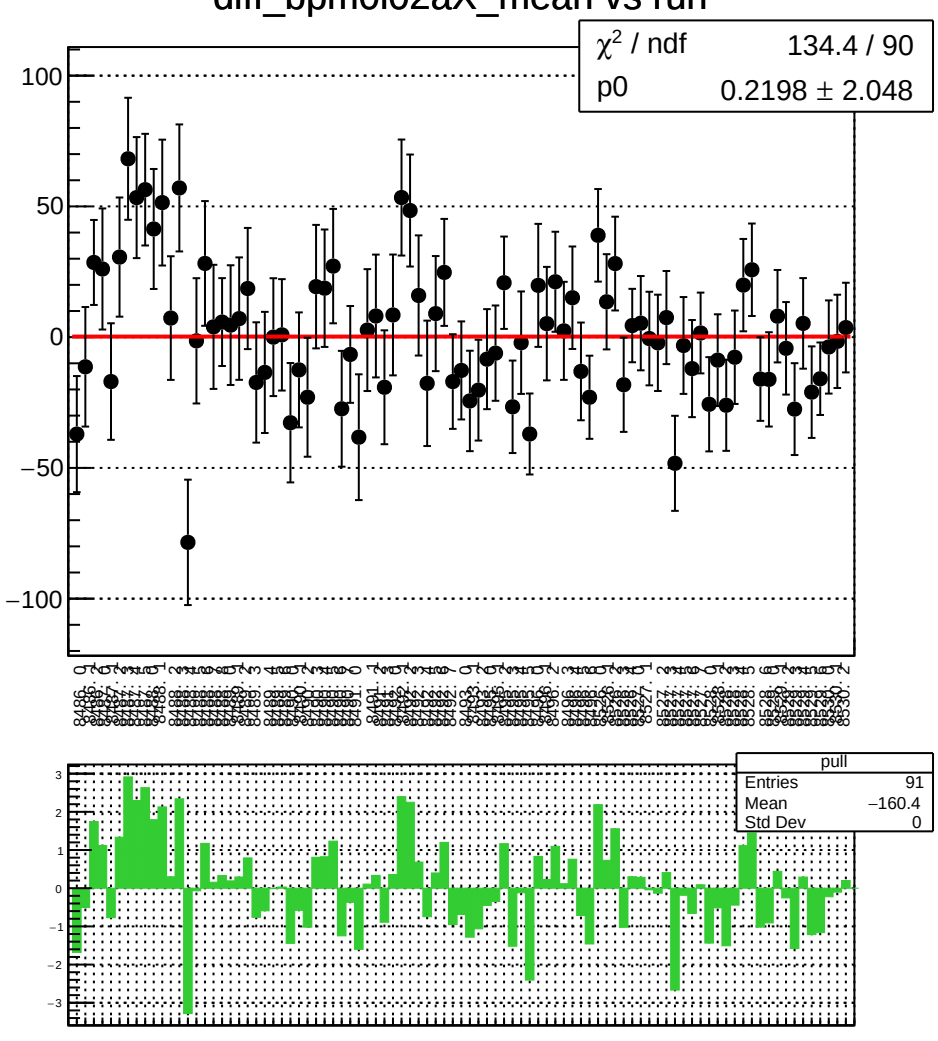

pull1D
Entries 91
Mean 0.01746
Std Dev 1.188

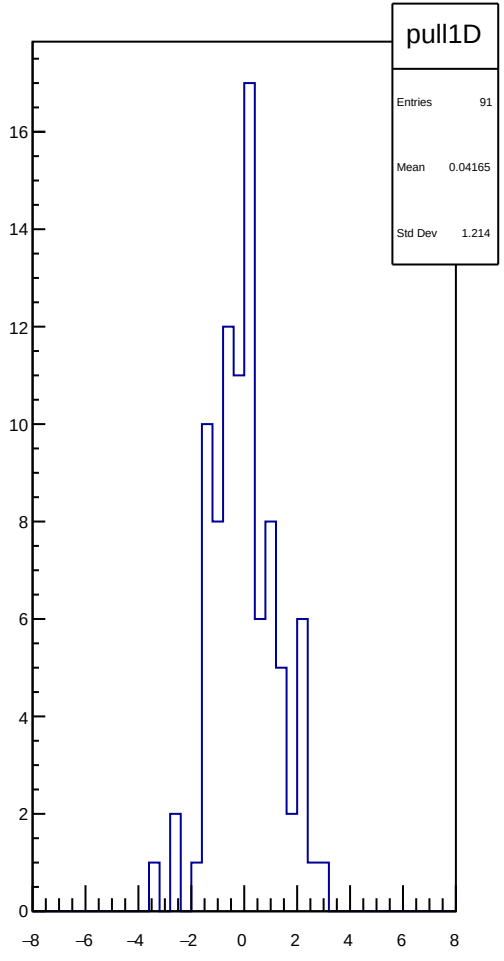

diff_bpm0i02X_rms vs run
χ² / ndf 2655 / 90
p0 1326 ± 1.003
1440
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220

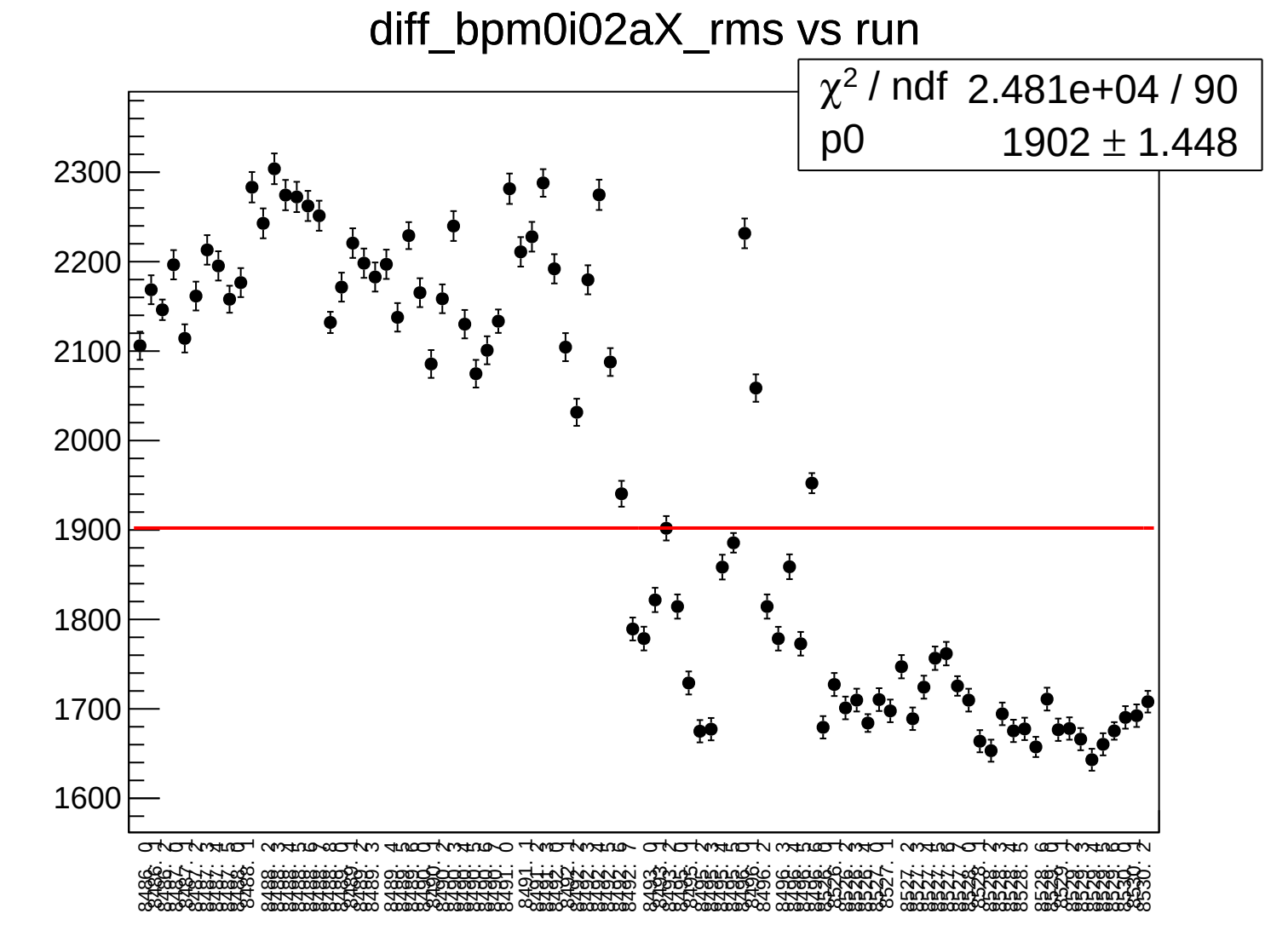

diff_bpm0i02Y_mean vs run
χ² / ndf 137.1 / 90
p0 77.41 ± 1.745
pull
Entries 91
Mean 738.1
Std Dev 0

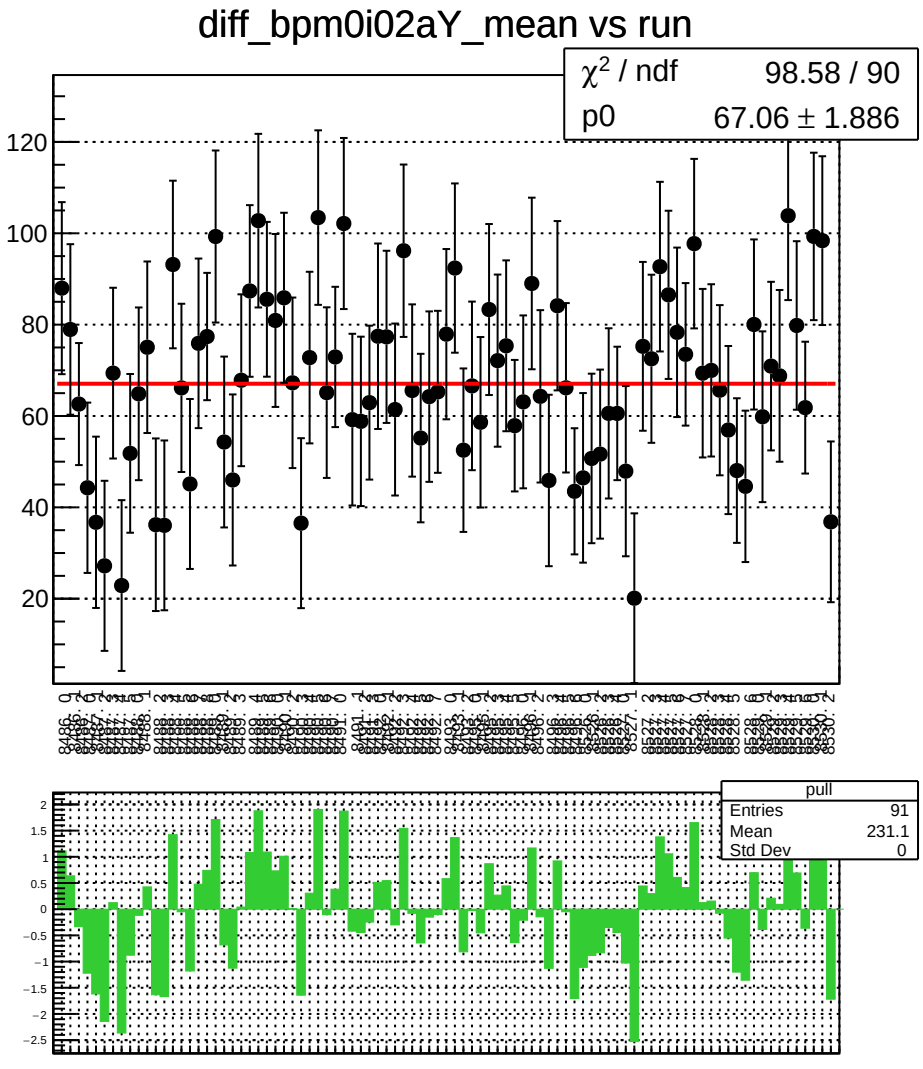

pull1D
Entries 91
Mean 0.00739
Std Dev 1.227

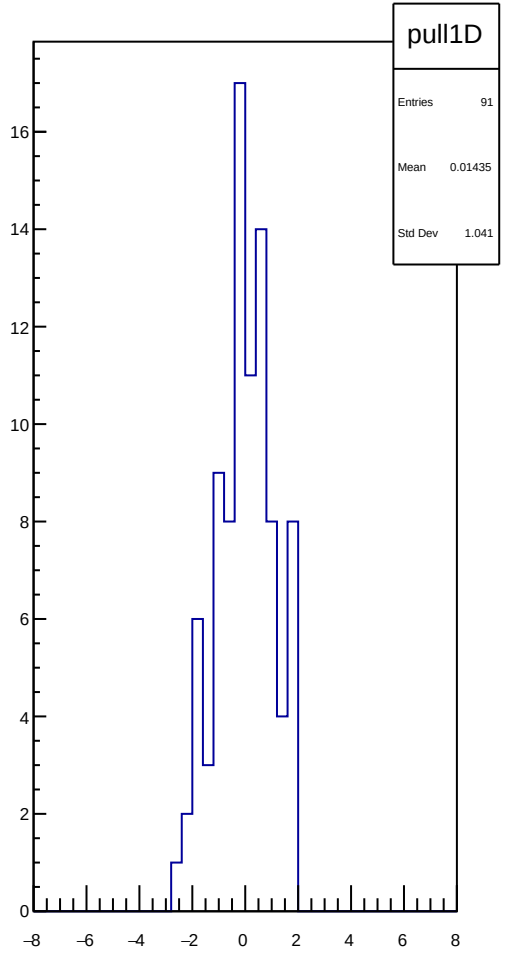

diff_bpm0i02Y_rms vs run
χ² / ndf 347.2 / 90
p0 1632 ± 1.234
1750
1700
1650
1600
1550
1500
1450

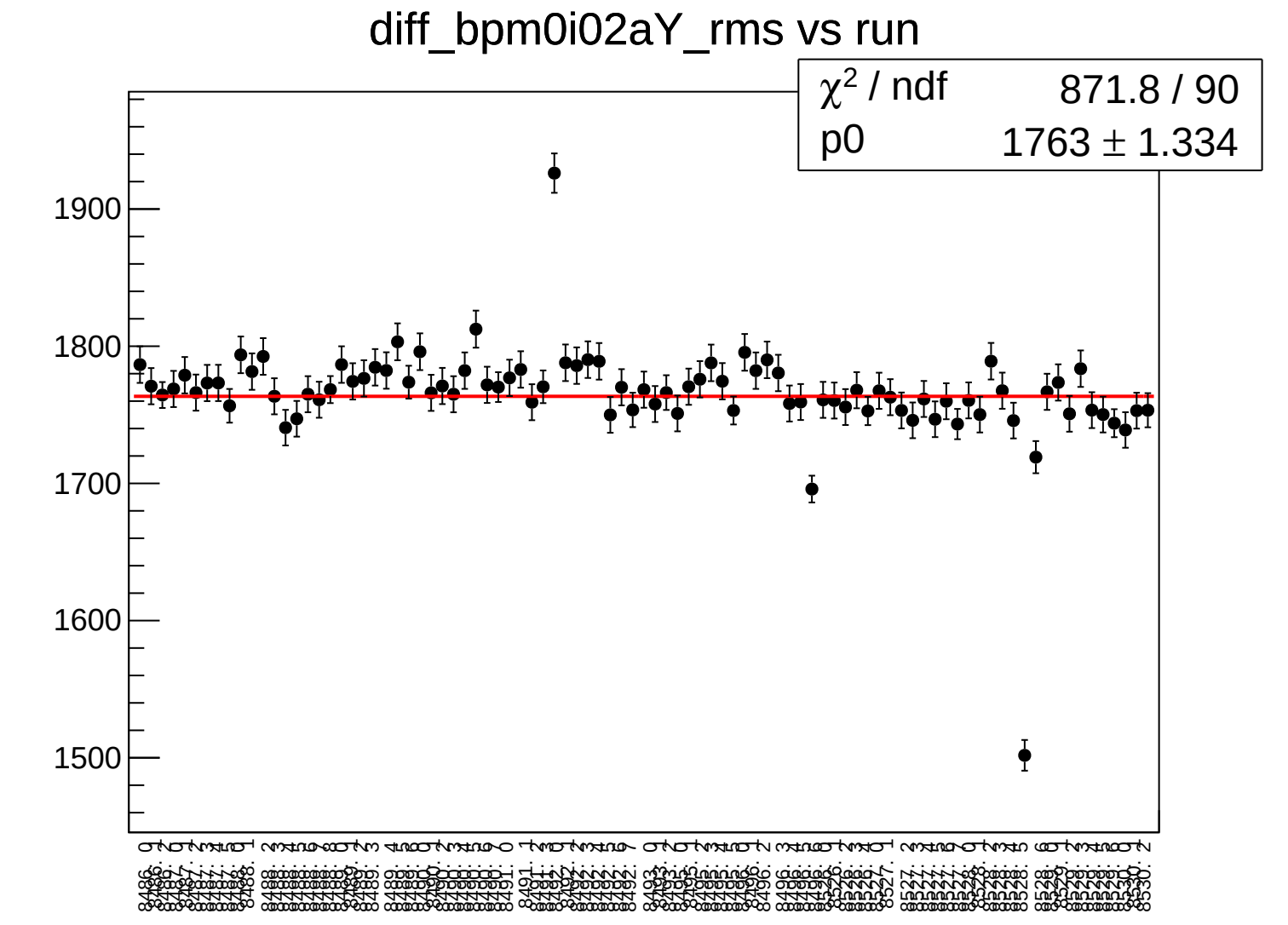

diff_bpm0i02aX_mean vs run
χ² / ndf 134.4 / 90
p0 0.2198 ± 2.048
100
50
0
−50
−100
pull
Entries 91
Mean −160.4
Std Dev 0
3
2
1
0
−1
−2
−3

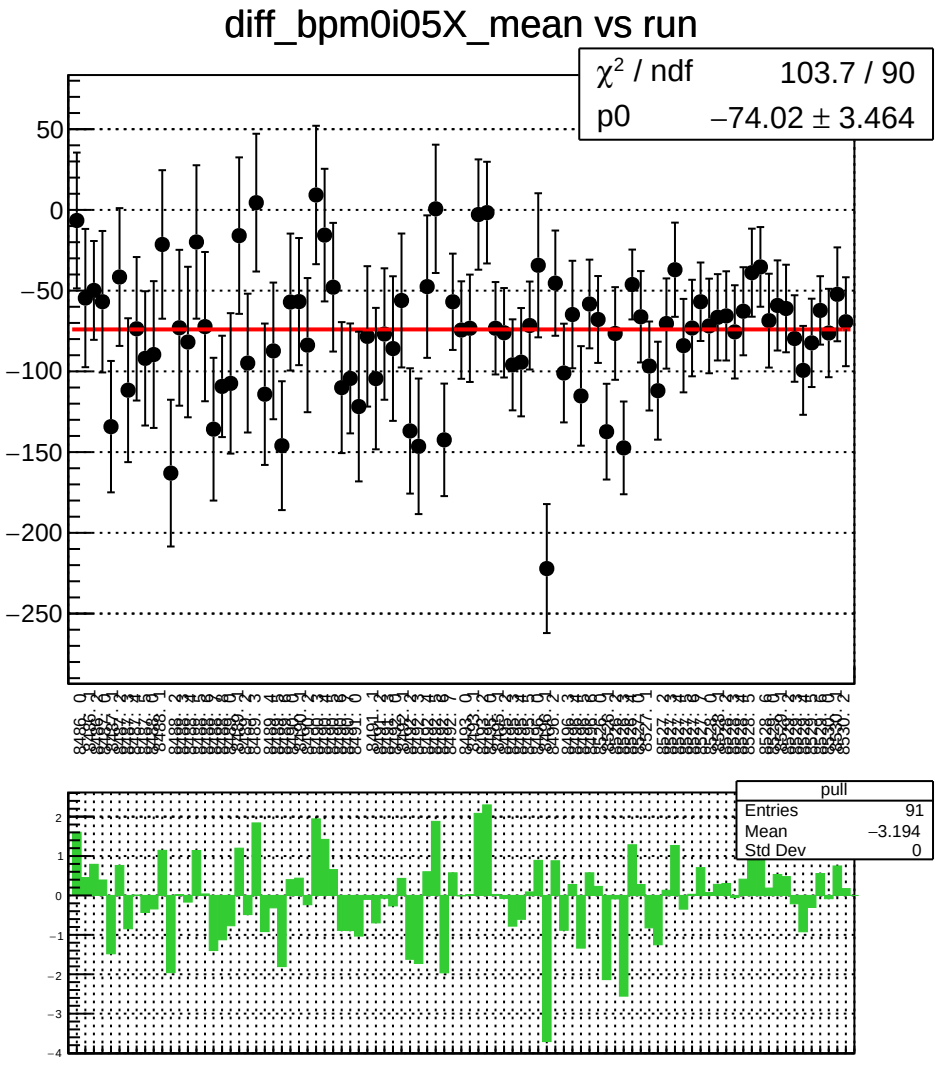

pull1D
Entries 91
Mean 0.04165
Std Dev 1.214
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

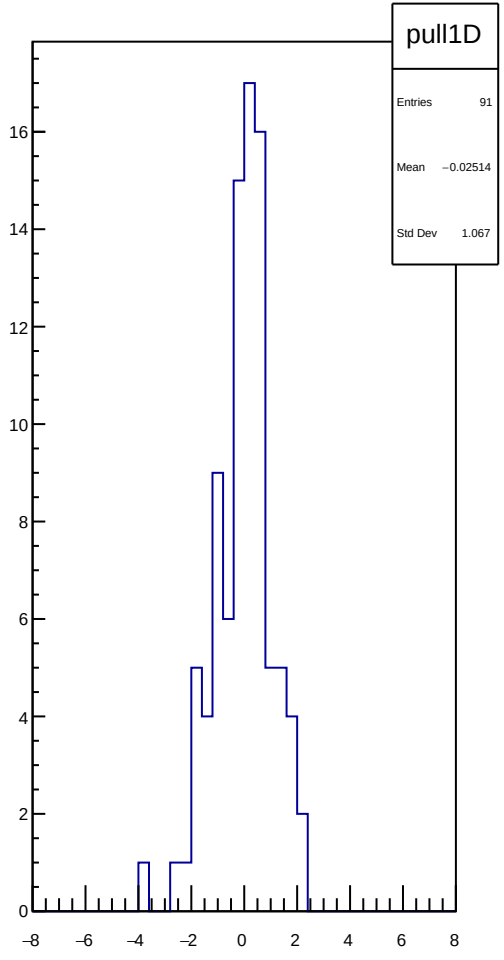

diff_bpm0i02aX_rms vs run
χ² / ndf 2.481e+04 / 90
p0 1902 ± 1.448
2300
2200
2100
2000
1900
1800
1700
1600

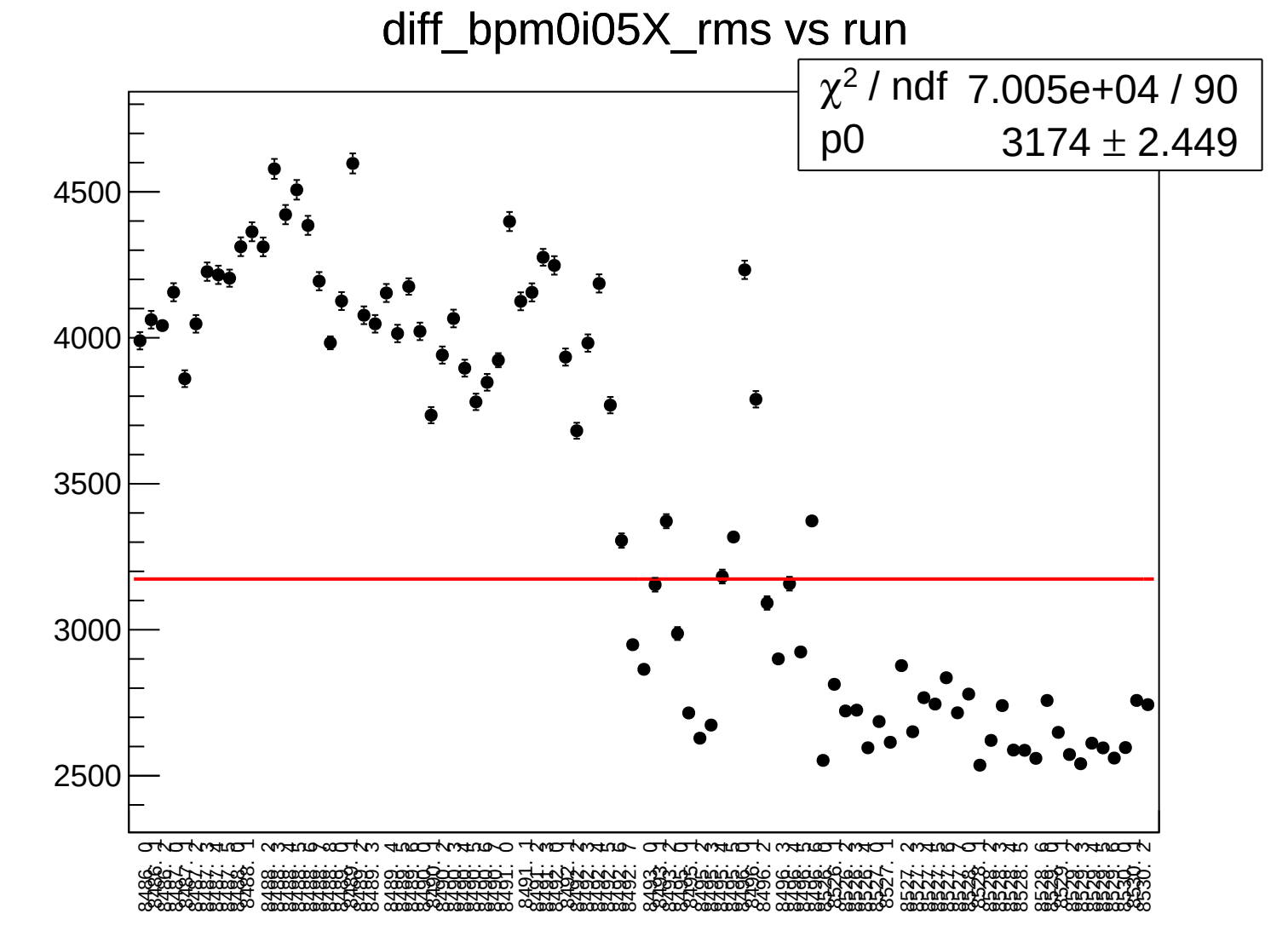

diff_bpm0i02aY_mean vs run
χ^2 / ndf 98.58 / 90
p0 67.06 ± 1.886
pull
Entries 91
Mean 231.1
Std Dev 0

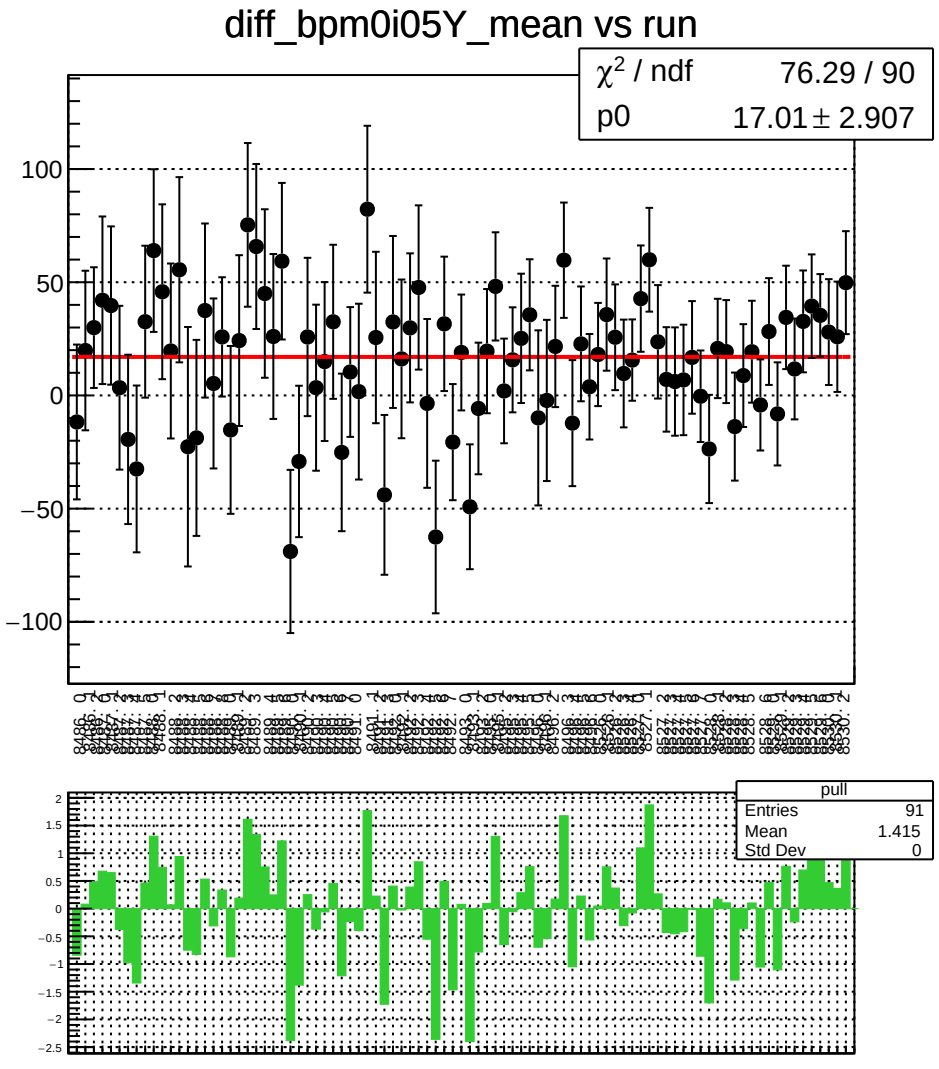

pull1D
Entries 91
Mean 0.01435
Std Dev 1.041

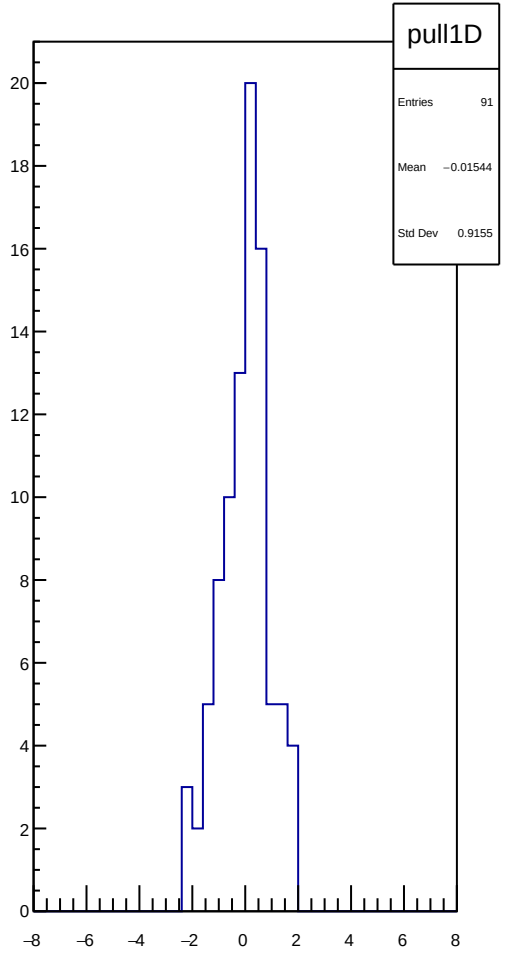

diff_bpm0i02aY_rms vs run
χ² / ndf 871.8 / 90
p0 1763 ± 1.334
1900
1800
1700
1600
1500

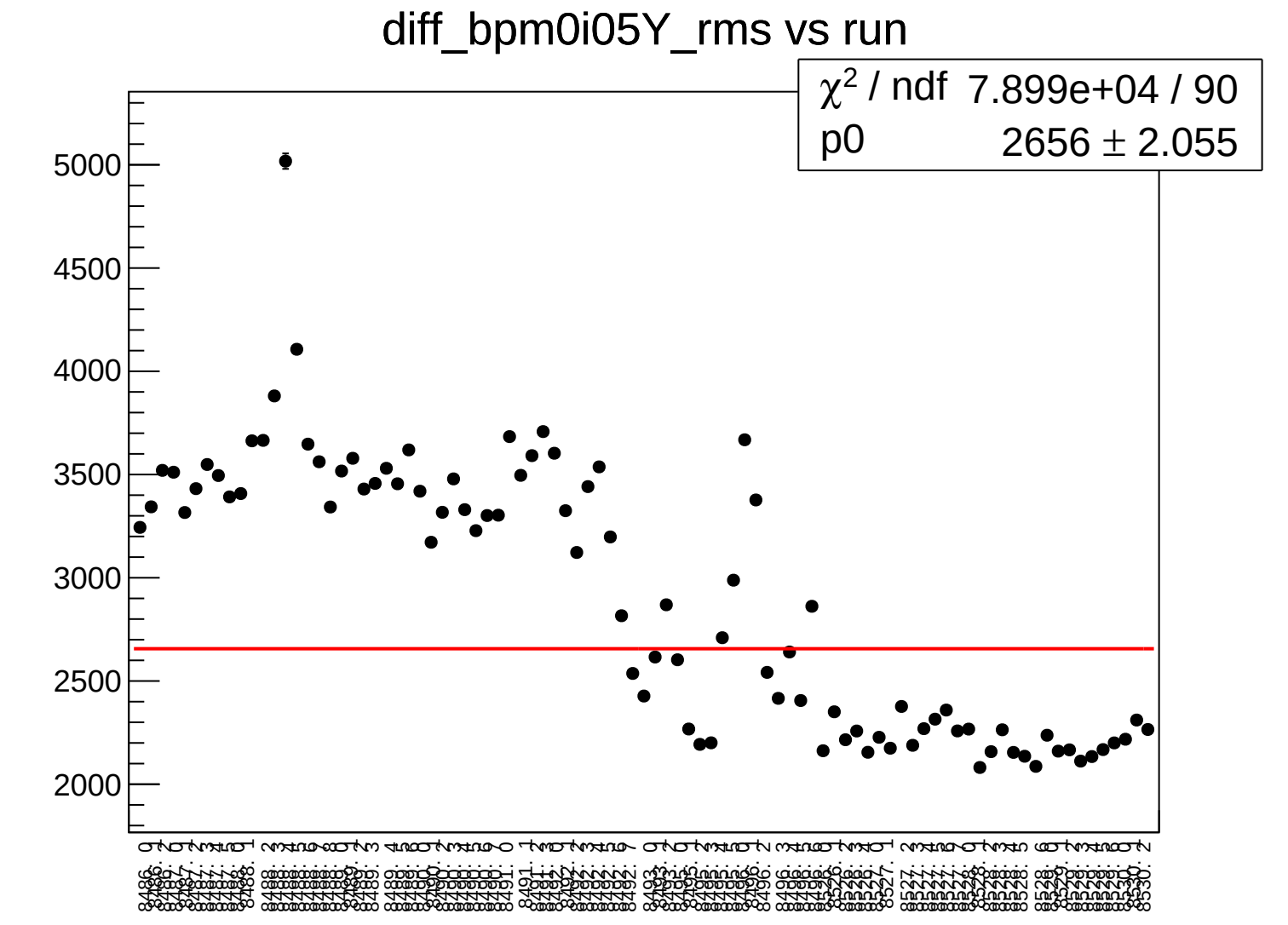

diff_bpm0i05X_mean vs run
χ² / ndf 103.7 / 90
p0 −74.02 ± 3.464
pull
Entries 91
Mean −3.194
Std Dev 0

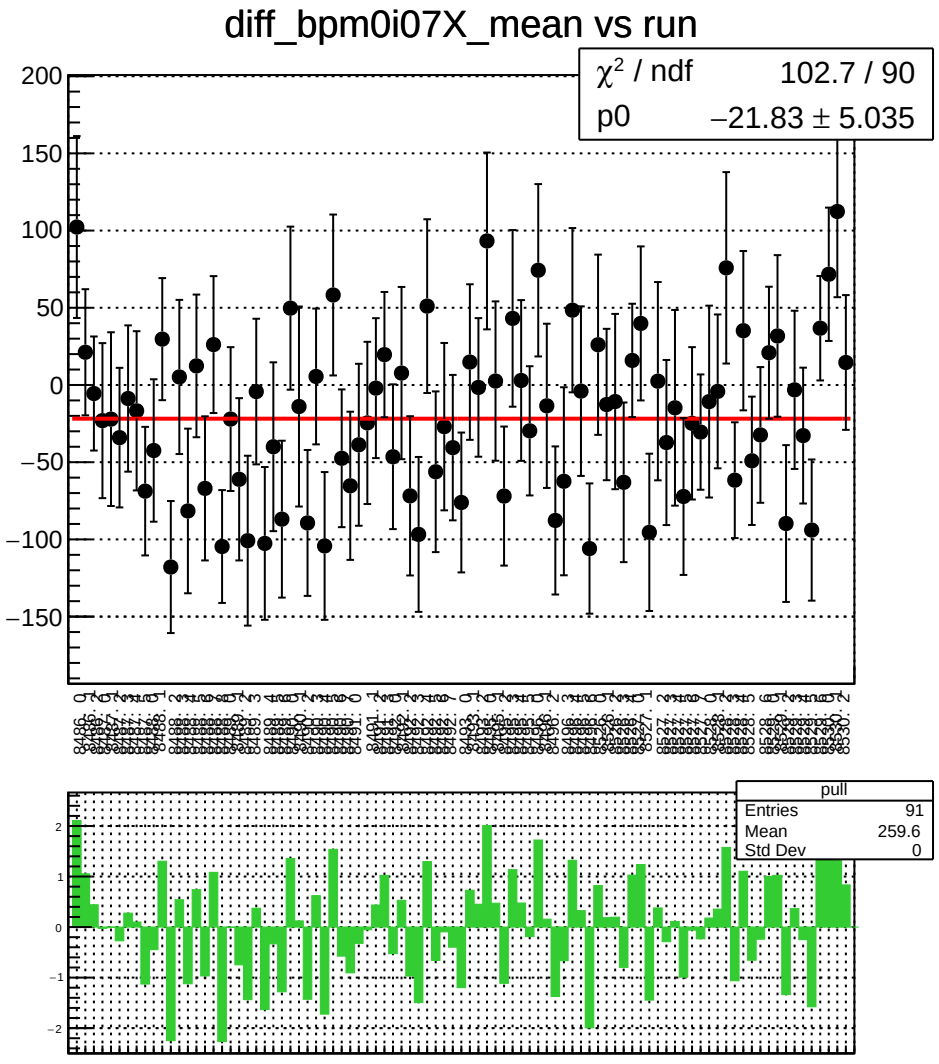

pull1D
Entries 91
Mean −0.02514
Std Dev 1.067

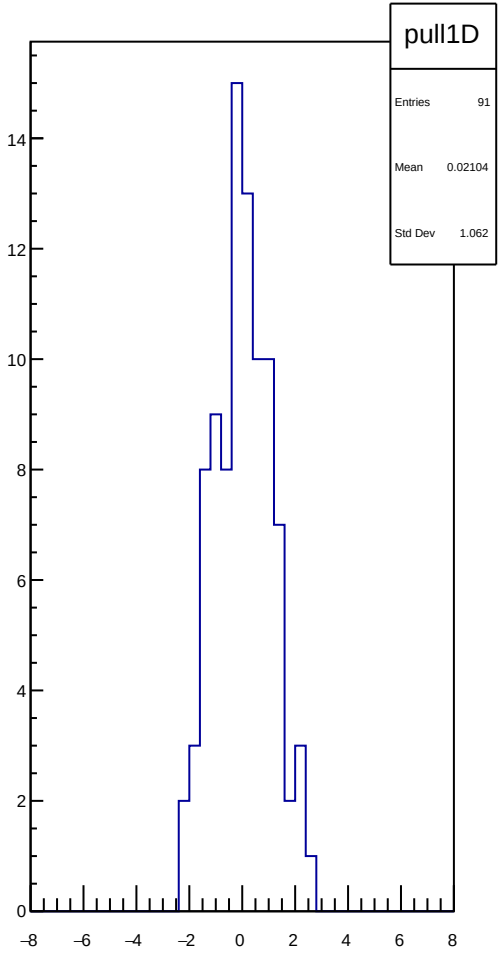

diff_bpm0i05X_rms vs run
χ² / ndf 7.005e+04 / 90
p0 3174 ± 2.449
4500
4000
3500
3000
2500

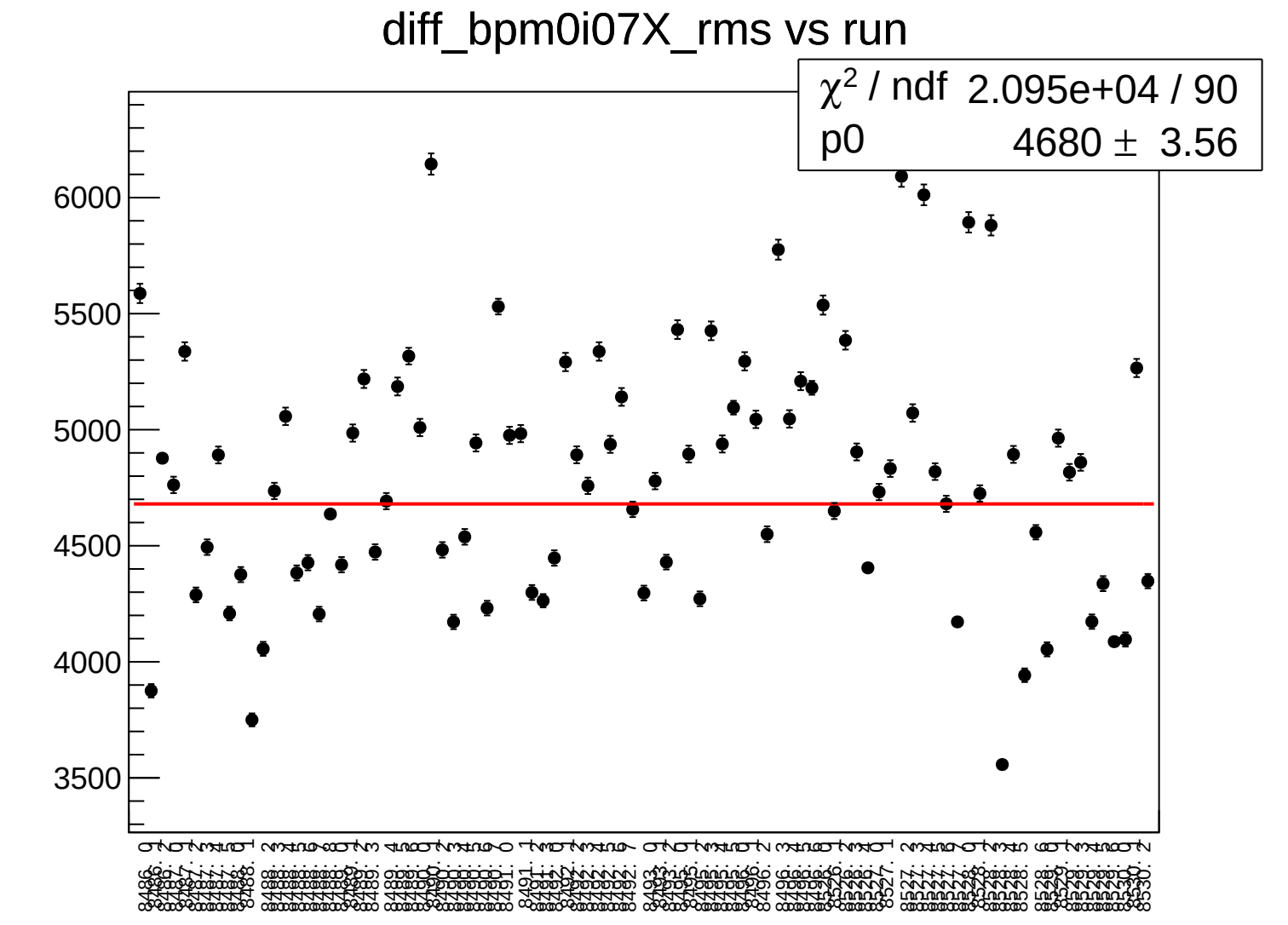

diff_bpm0i05Y_mean vs run
χ² / ndf 76.29 / 90
p0 17.01 ± 2.907
100
50
0
−50
−100
pull
Entries 91
Mean 1.415
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

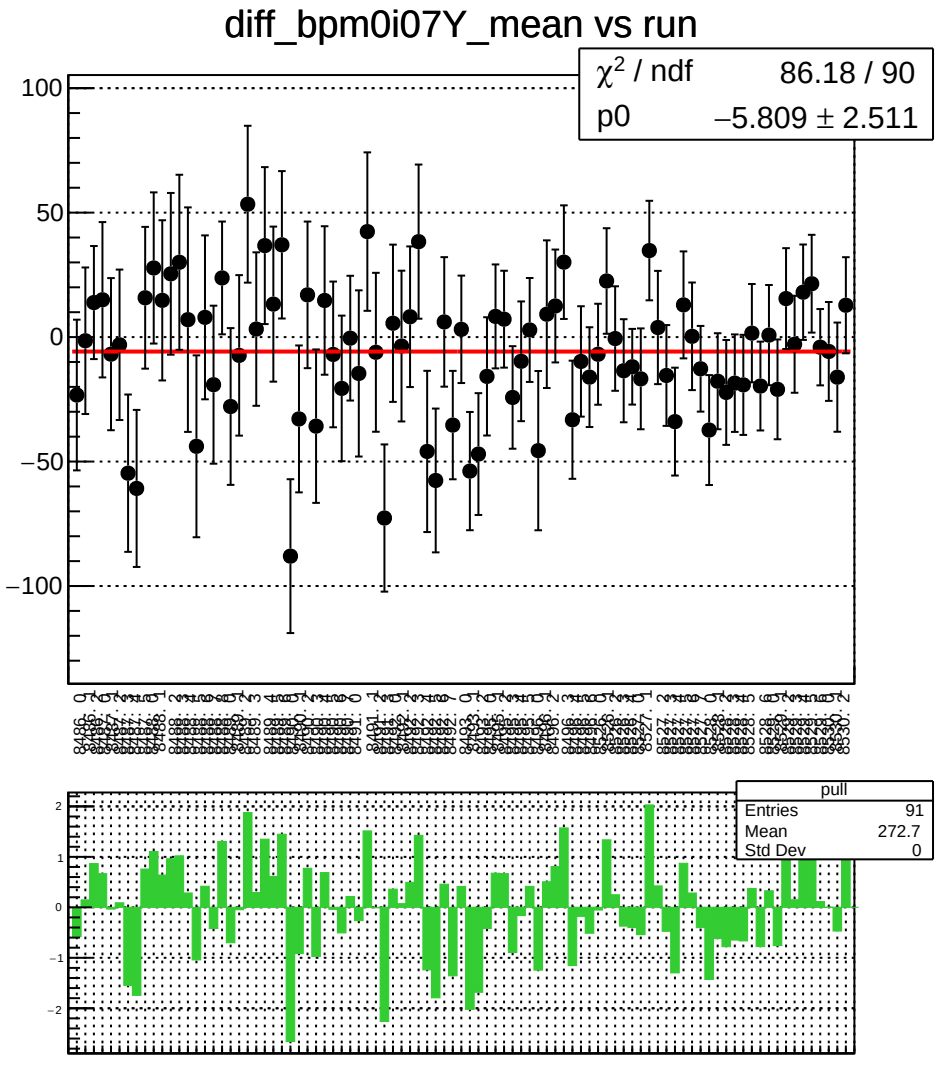

pull1D
Entries 91
Mean −0.01544
Std Dev 0.9155
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

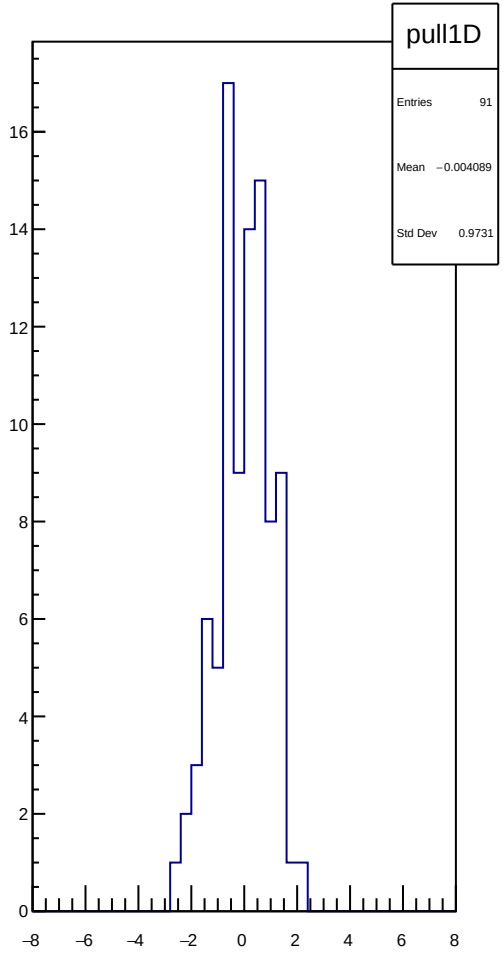

diff_bpm0i05Y_rms vs run
χ^2 / ndf 7.899e+04 / 90
p0 2656 ± 2.055
5000
4500
4000
3500
3000
2500
2000

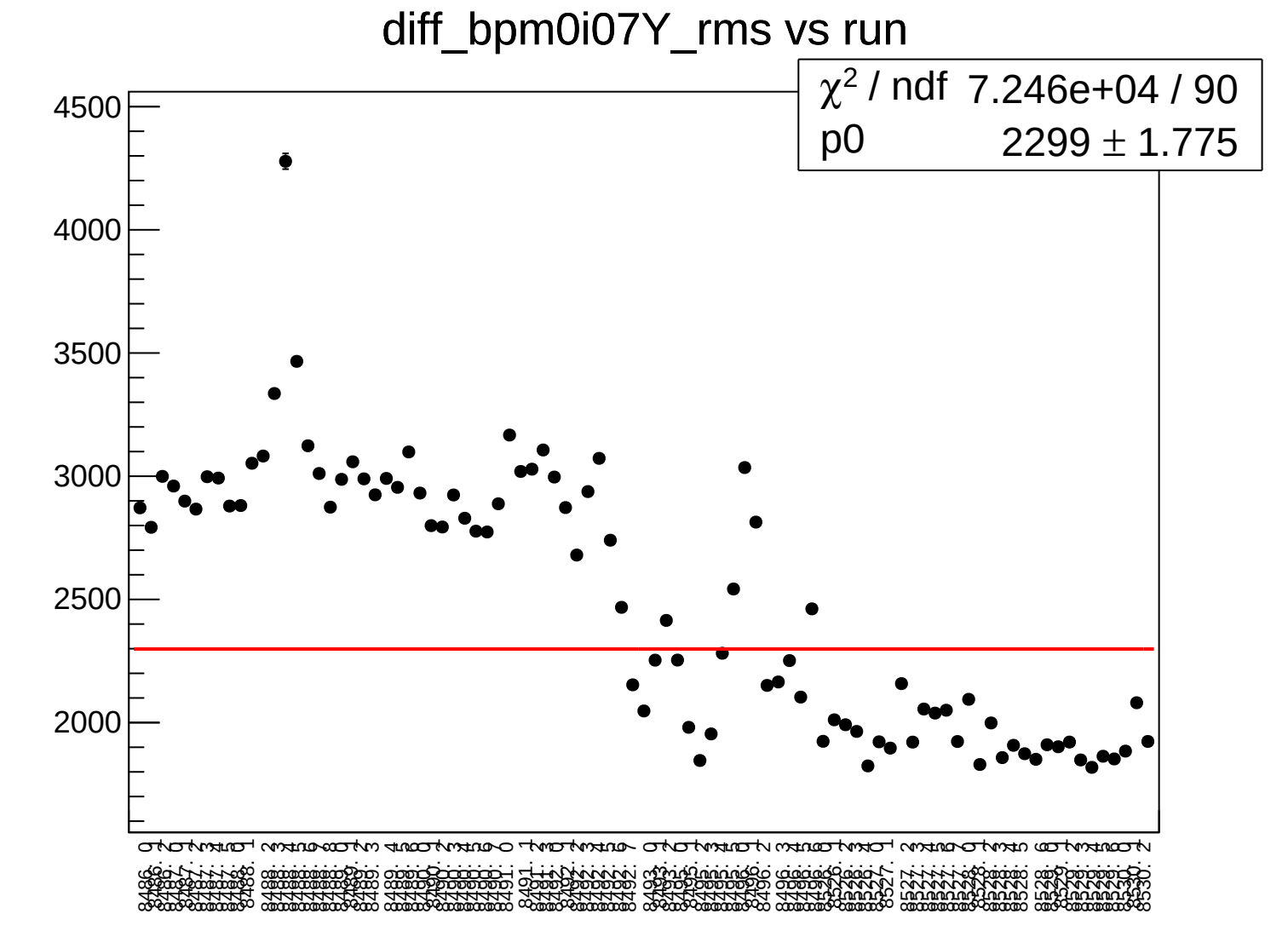

diff_bpm0i07X_mean vs run
χ² / ndf 102.7 / 90
p0 −21.83 ± 5.035
pull
Entries 91
Mean 259.6
Std Dev 0

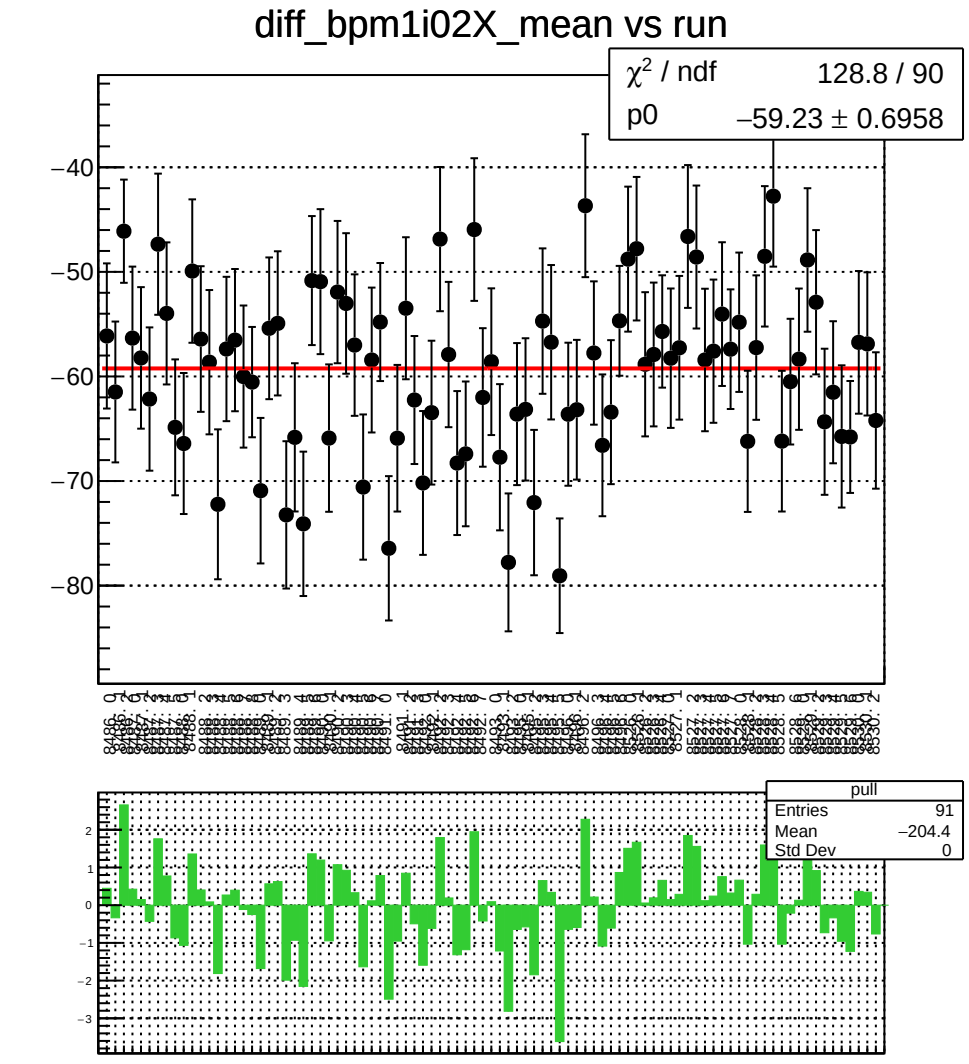

pull1D
Entries 91
Mean 0.02104
Std Dev 1.062

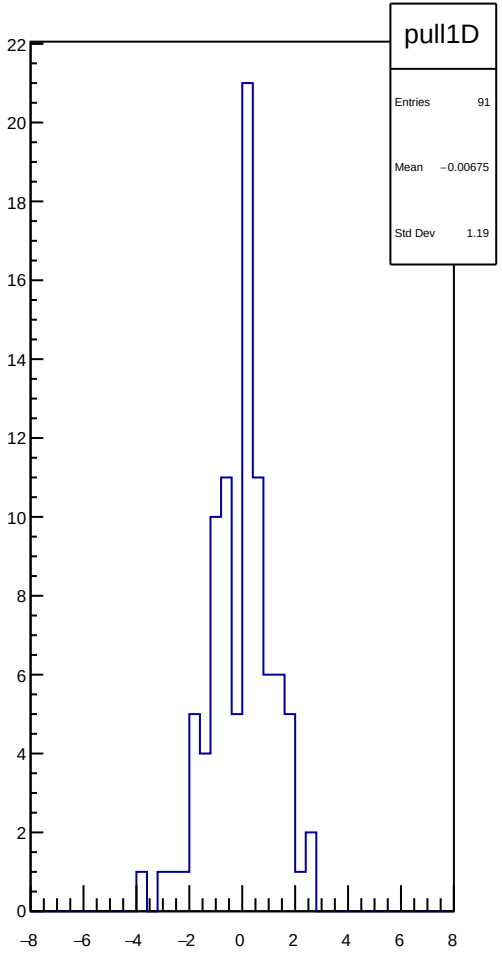

diff_bpm0i07X_rms vs run
χ² / ndf 2.095e+04 / 90
p0 4680 ± 3.56
6000
5500
5000
4500
4000
3500

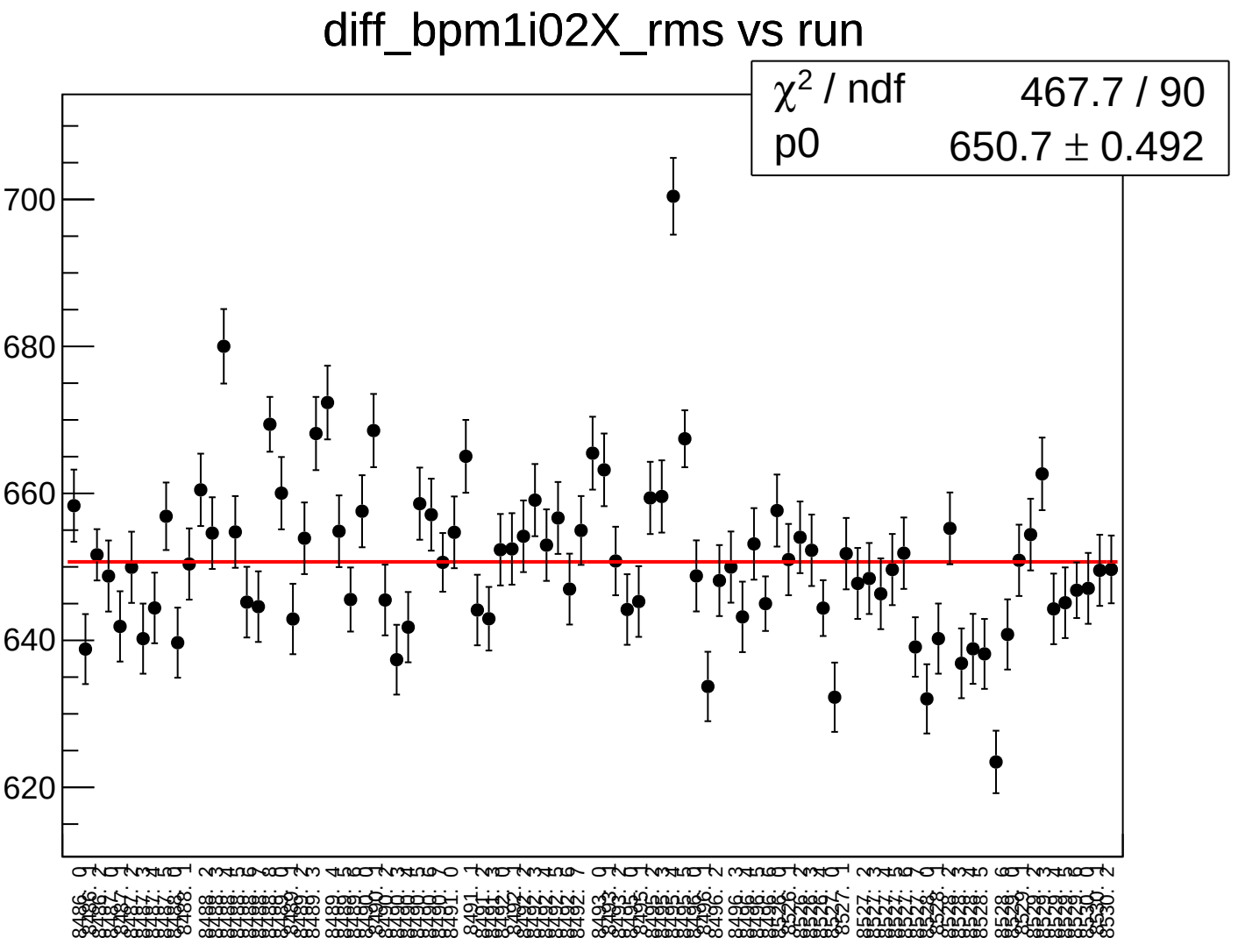

diff_bpm0i07Y_mean vs run
χ² / ndf 86.18 / 90
p0 −5.809 ± 2.511
100
50
0
−50
−100
pull
Entries 91
Mean 272.7
Std Dev 0
2
1
0
−1
−2

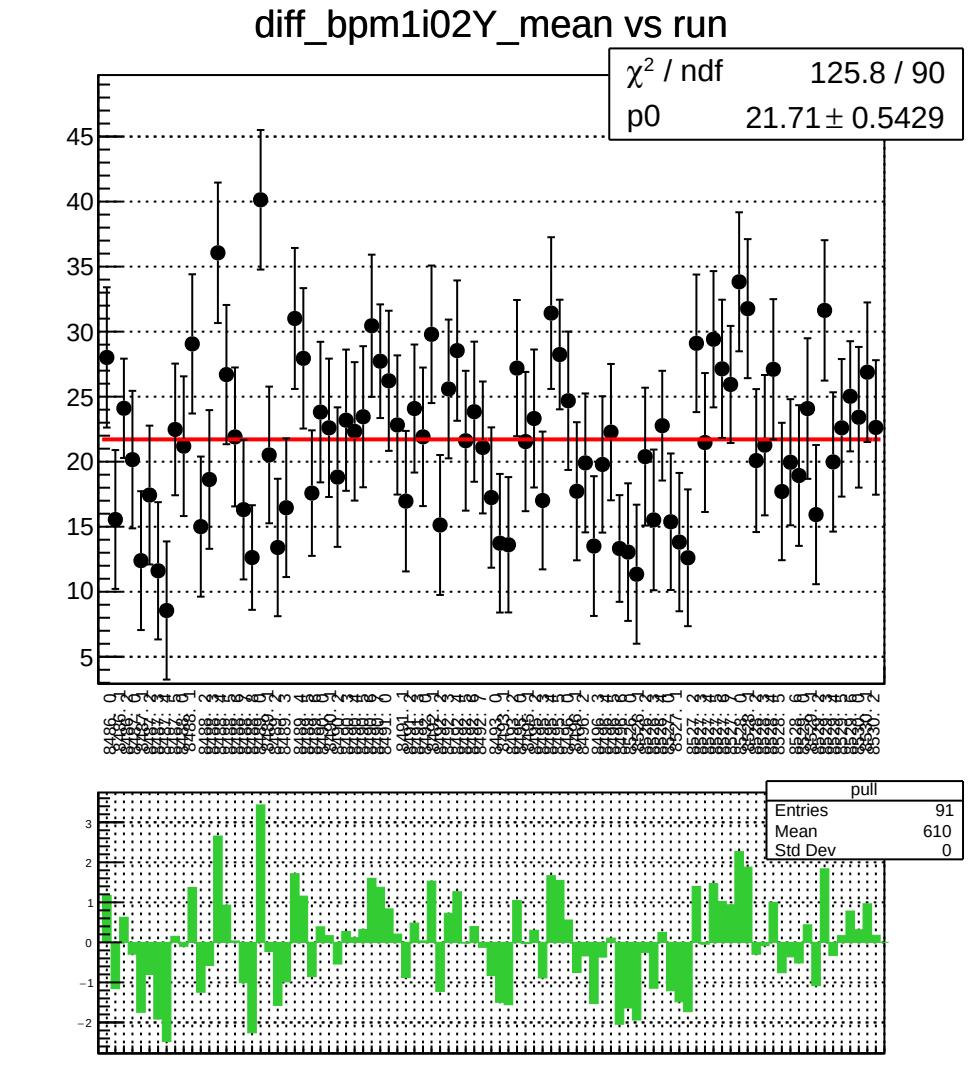

pull1D
Entries 91
Mean −0.004089
Std Dev 0.9731
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

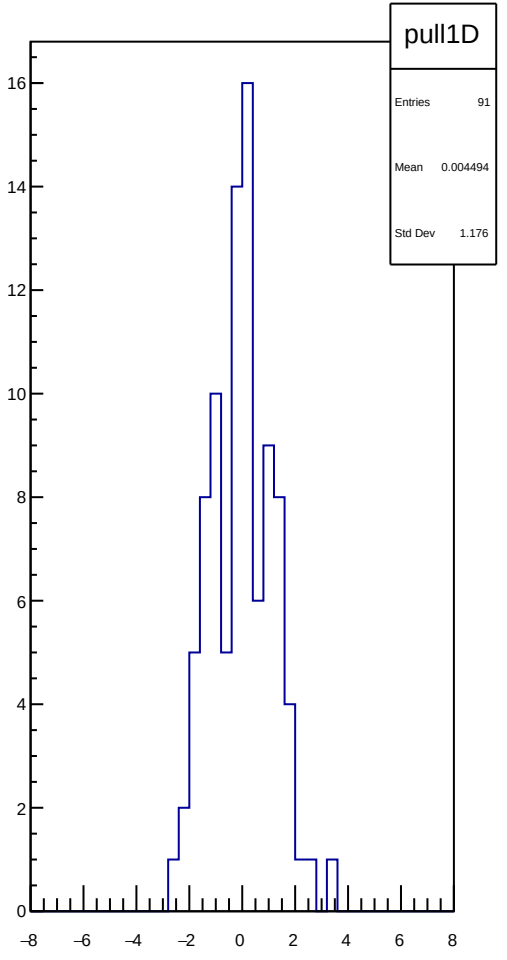

diff_bpm0i07Y_rms vs run
χ² / ndf 7.246e+04 / 90
p0 2299 ± 1.775
4500
4000
3500
3000
2500
2000

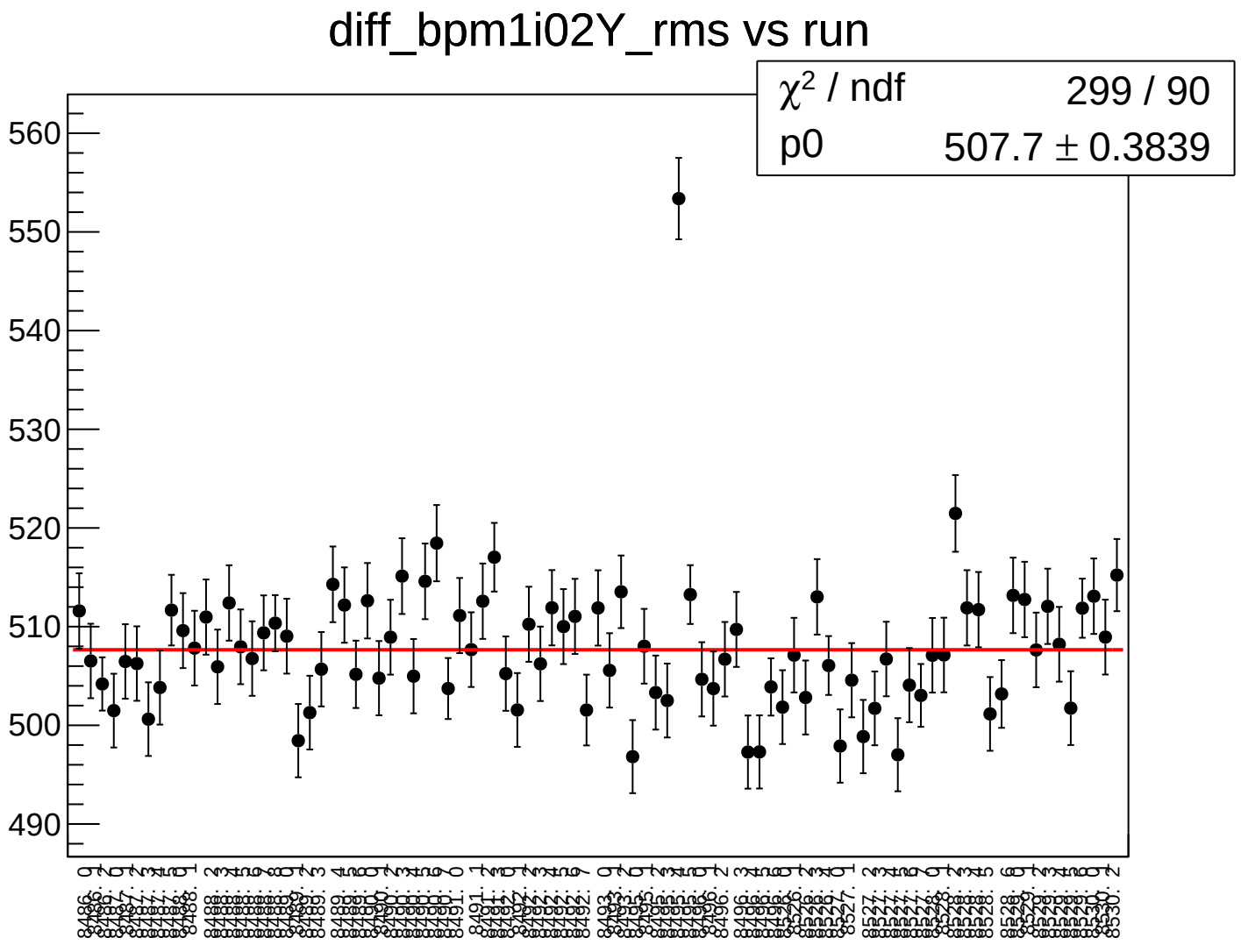

diff_bpm1i02X_mean vs run
χ² / ndf 128.8 / 90
p0 −59.23 ± 0.6958
−40
−50
−60
−70
−80
pull
Entries 91
Mean −204.4
Std Dev 0
2
1
0
−1
−2
−3

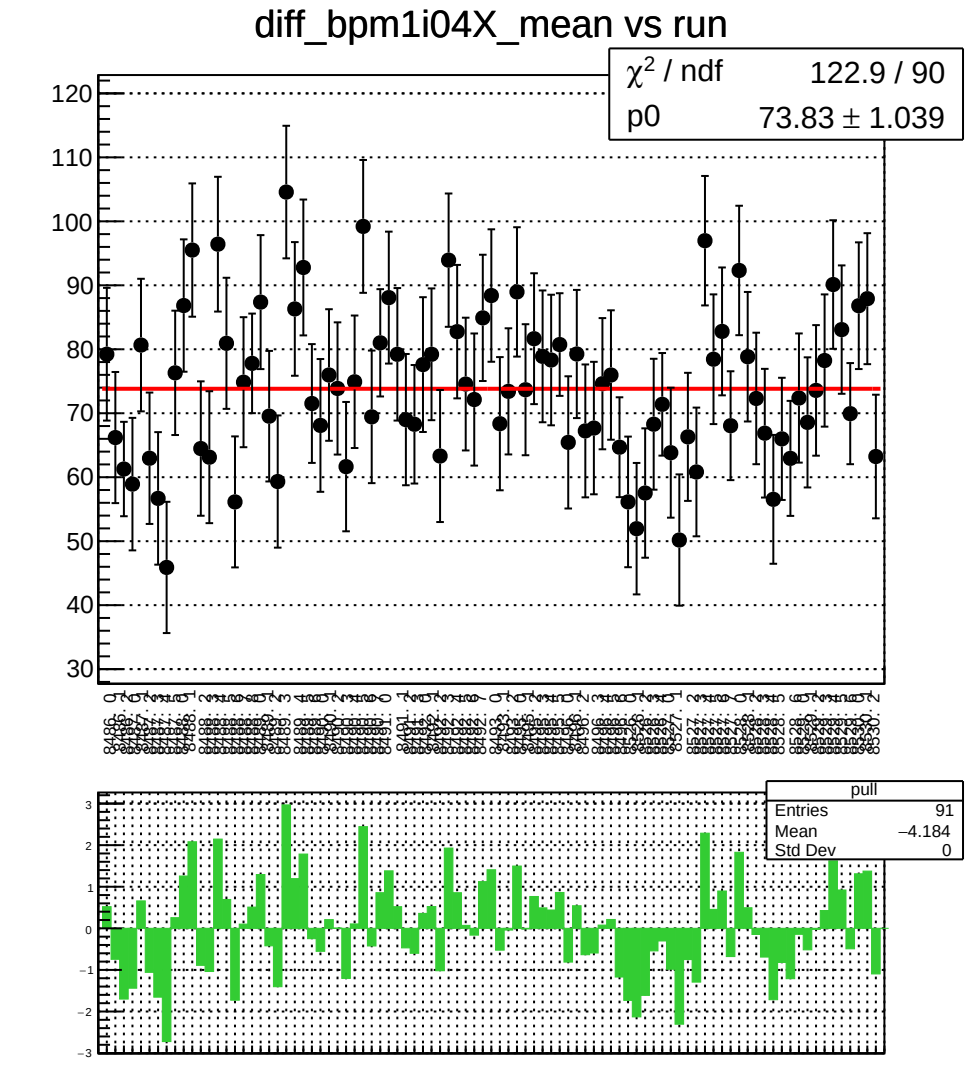

pull1D
Entries 91
Mean −0.00675
Std Dev 1.19
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

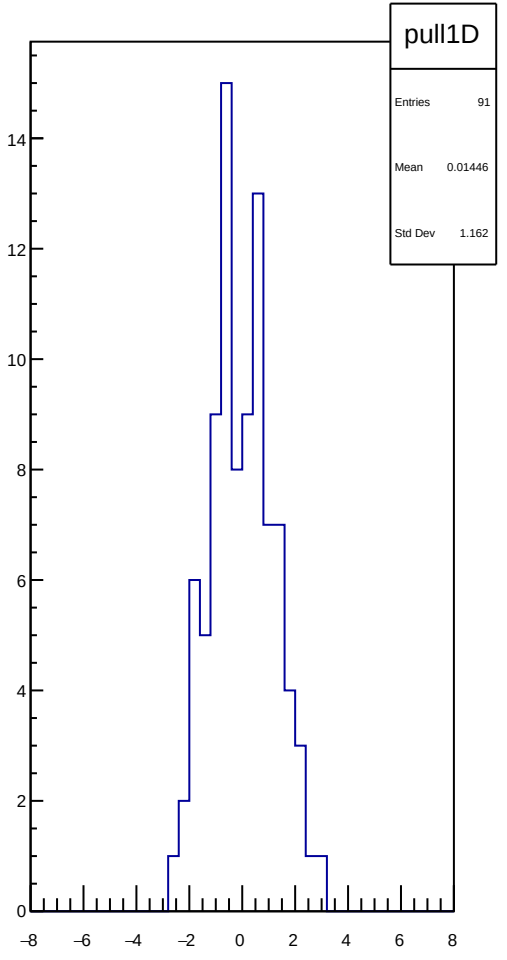

diff_bpm1i02X_rms vs run
χ² / ndf 467.7 / 90
p0 650.7 ± 0.492
700
680
660
640
620

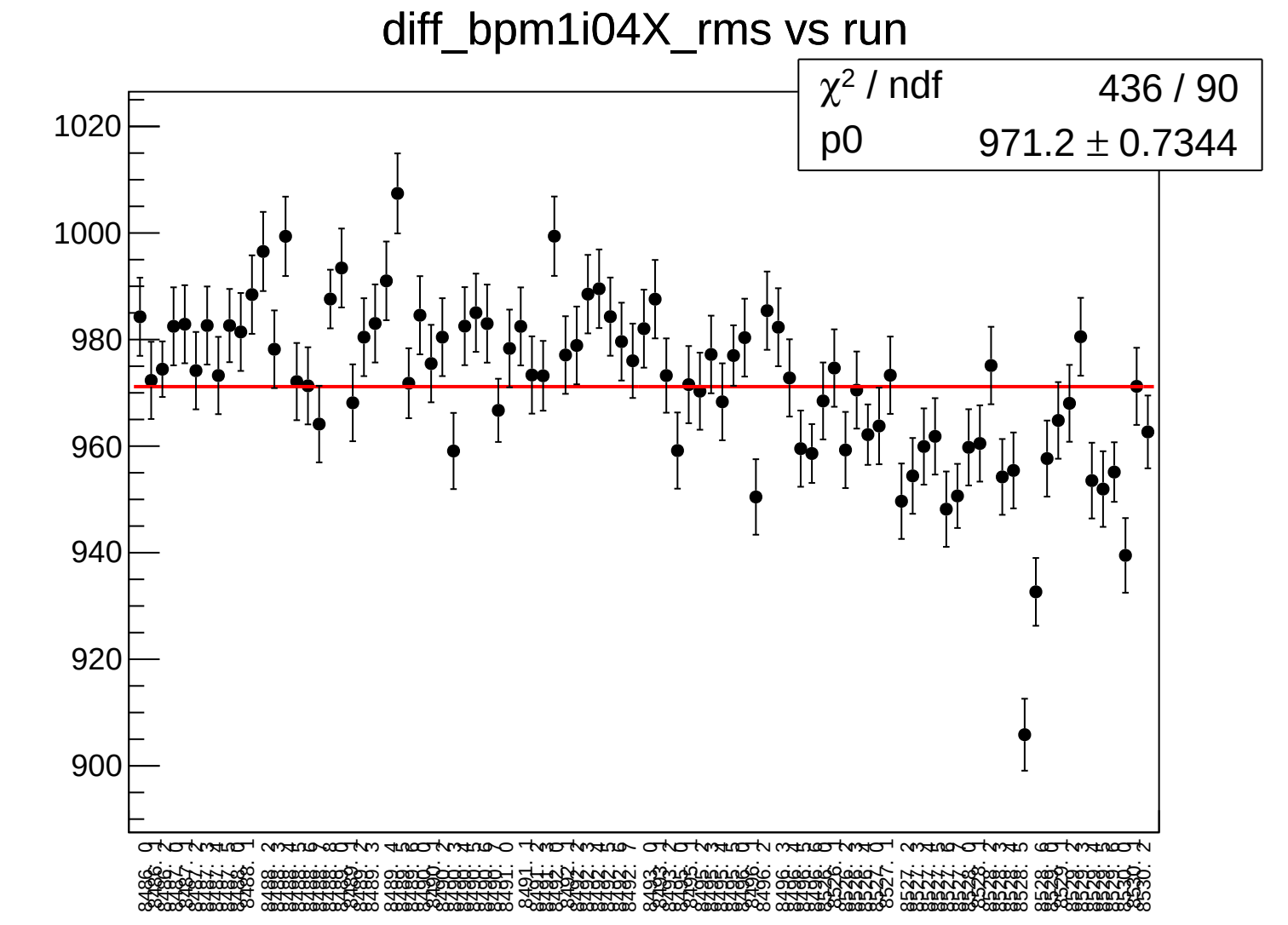

diff_bpm1i02Y_mean vs run
χ² / ndf 125.8 / 90
p0 21.71 ± 0.5429
pull
Entries 91
Mean 610
Std Dev 0

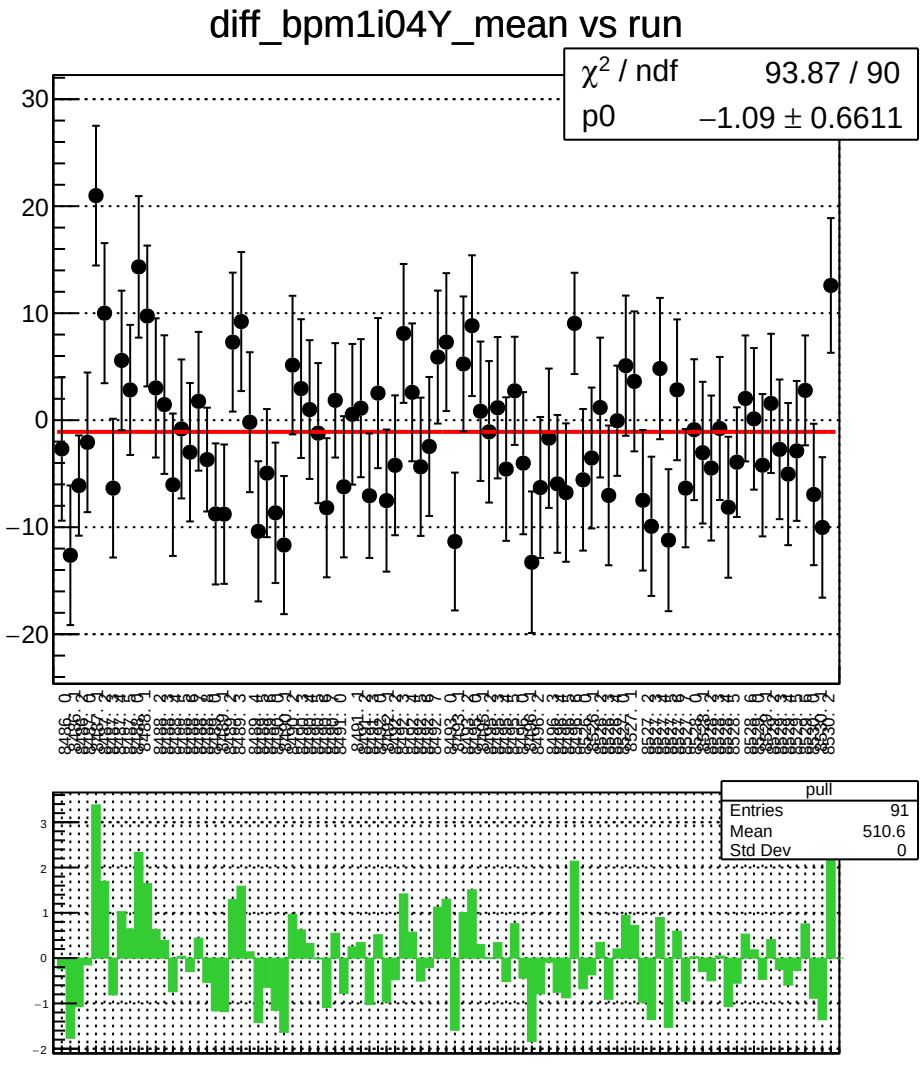

pull1D
Entries 91
Mean 0.004494
Std Dev 1.176

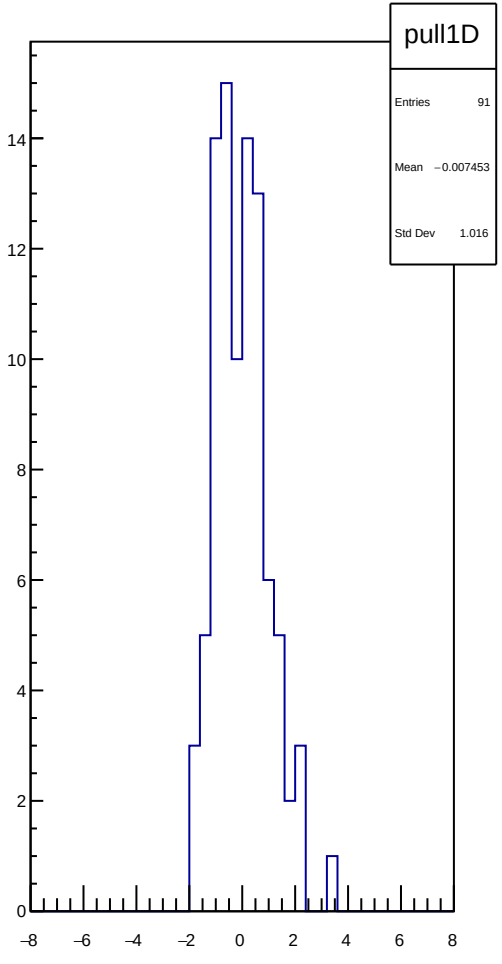

diff_bpm1i02Y_rms vs run
χ² / ndf 299 / 90
p0 507.7 ± 0.3839
560
550
540
530
520
510
500
490

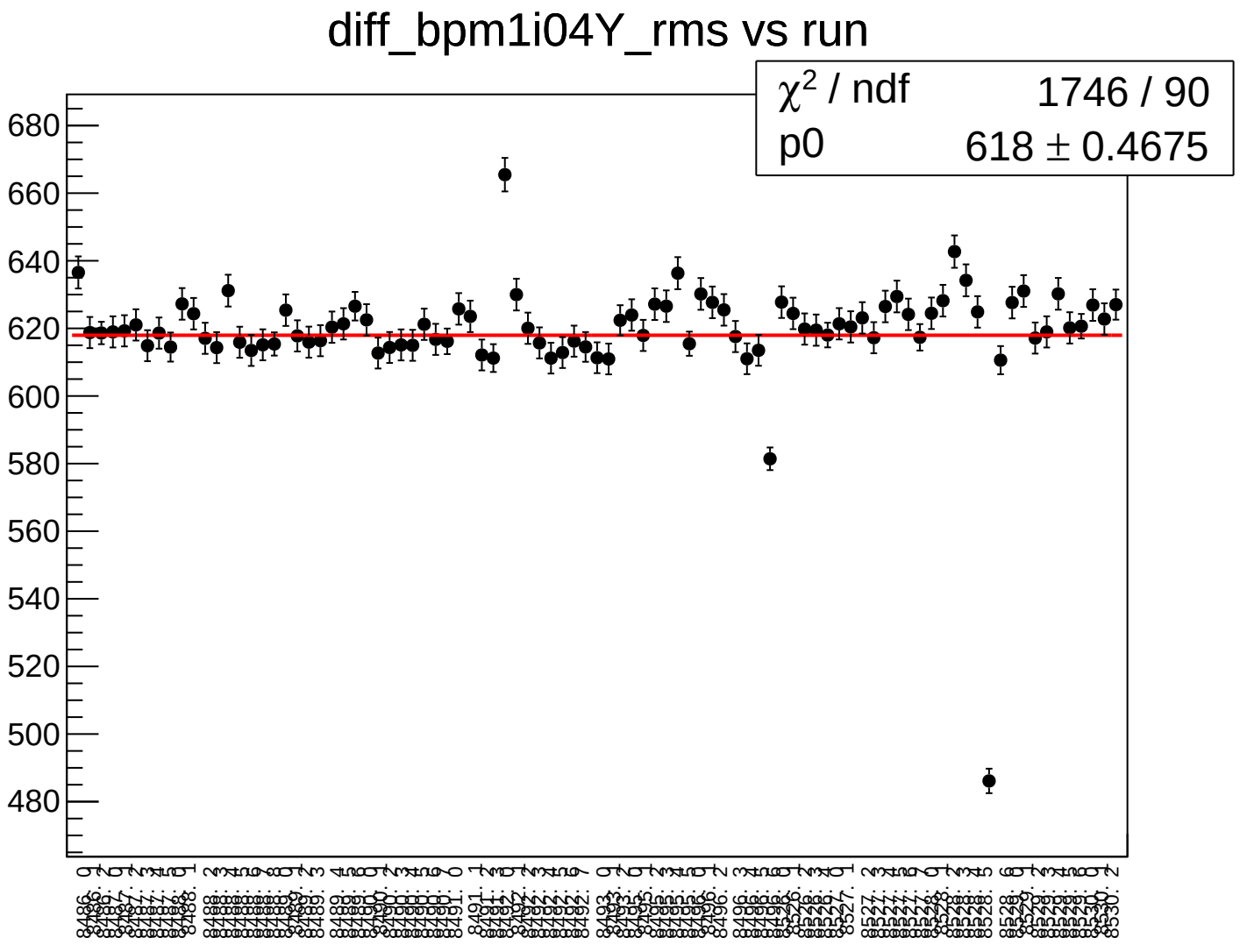

diff_bpm1i04X_mean vs run
χ² / ndf 122.9 / 90
p0 73.83 ± 1.039
pull
Entries 91
Mean −4.184
Std Dev 0

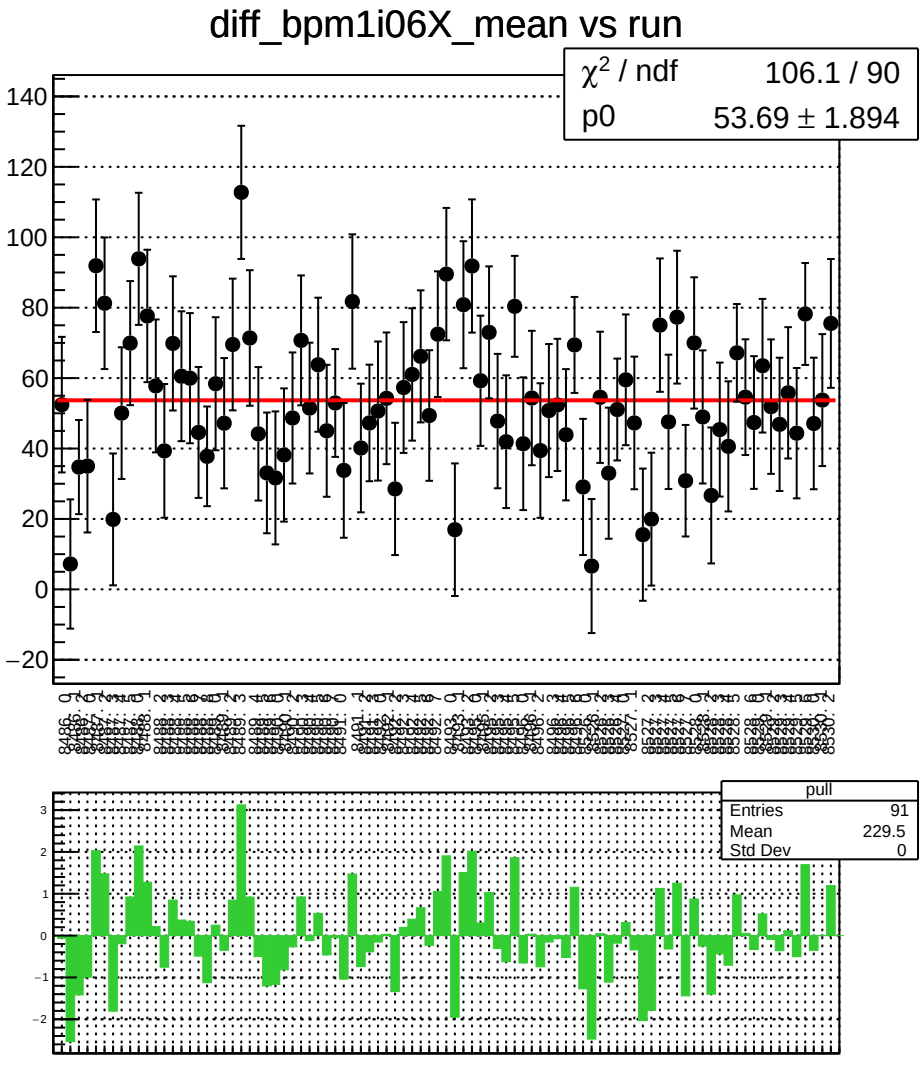

pull1D
Entries 91
Mean 0.01446
Std Dev 1.162

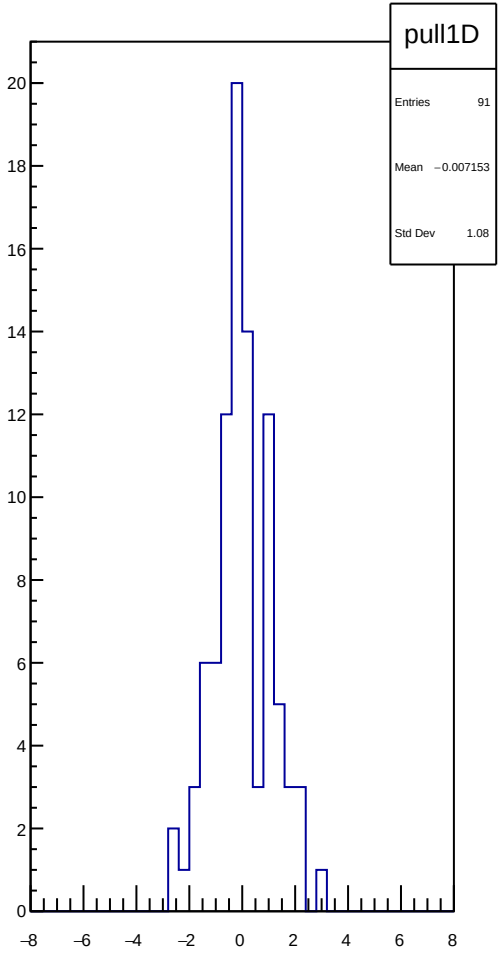

diff_bpm1i04X_rms vs run
χ² / ndf 436 / 90
p0 971.2 ± 0.7344
1020
1000
980
960
940
920
900

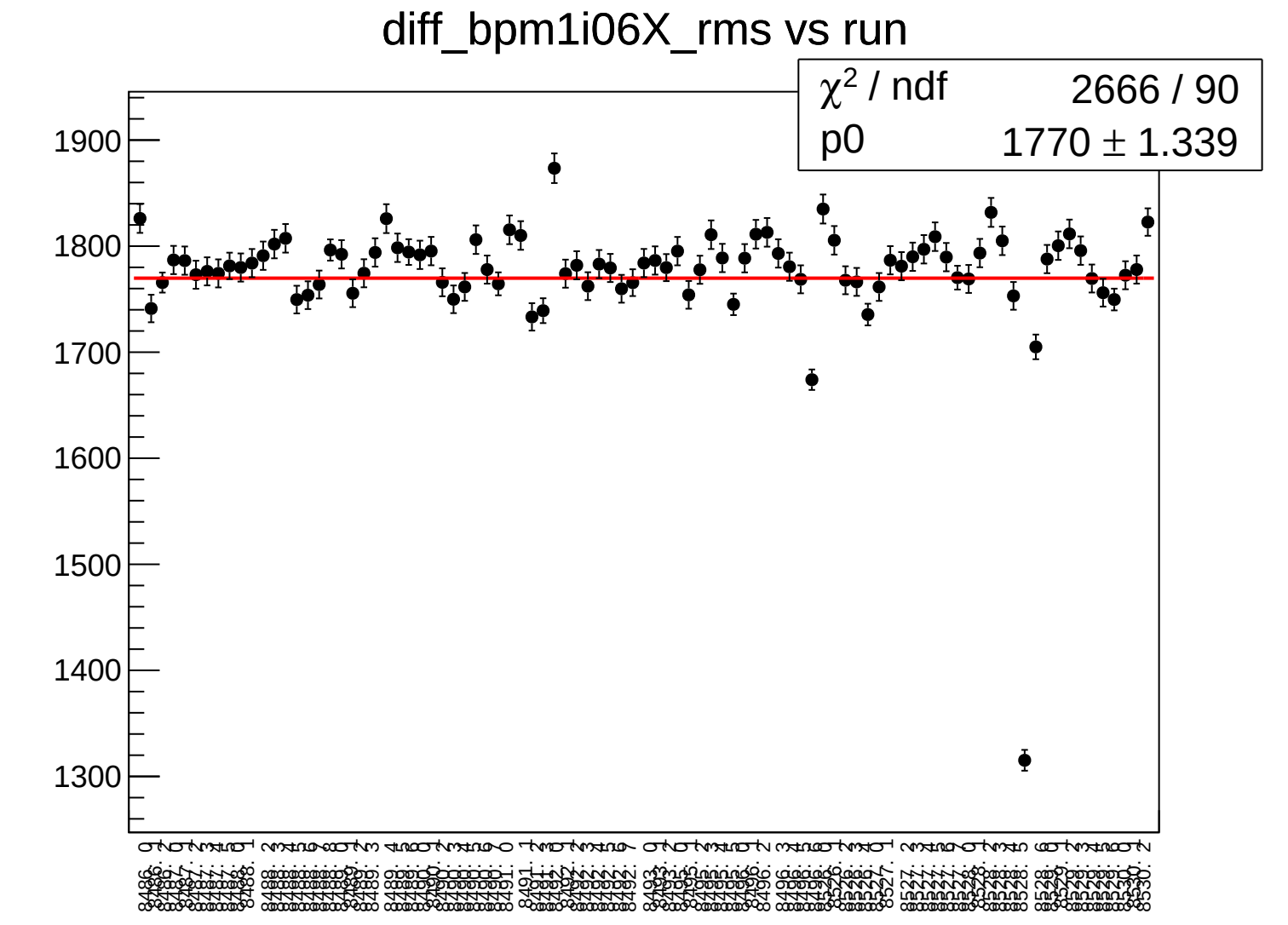

diff_bpm1i04Y_mean vs run
χ² / ndf 93.87 / 90
p0 −1.09 ± 0.6611
pull
Entries 91
Mean 510.6
Std Dev 0

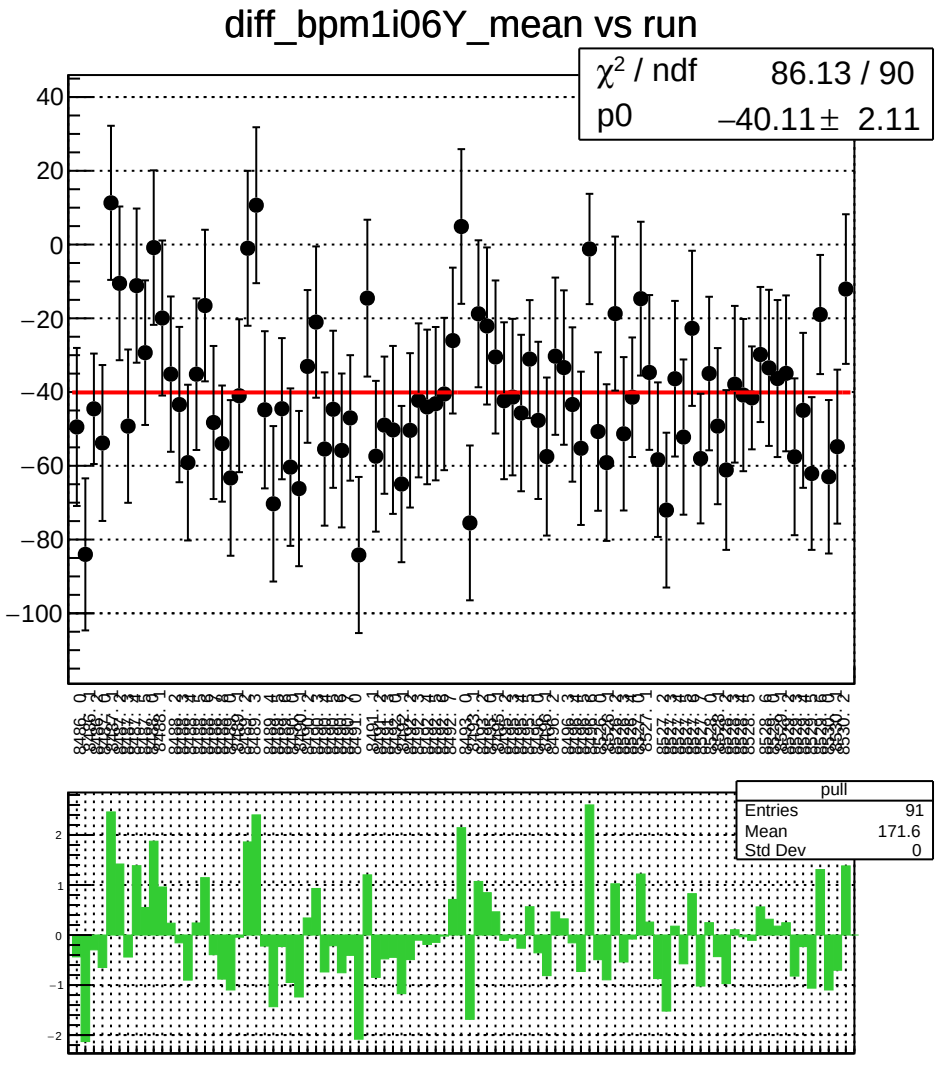

pull1D
Entries 91
Mean −0.007453
Std Dev 1.016

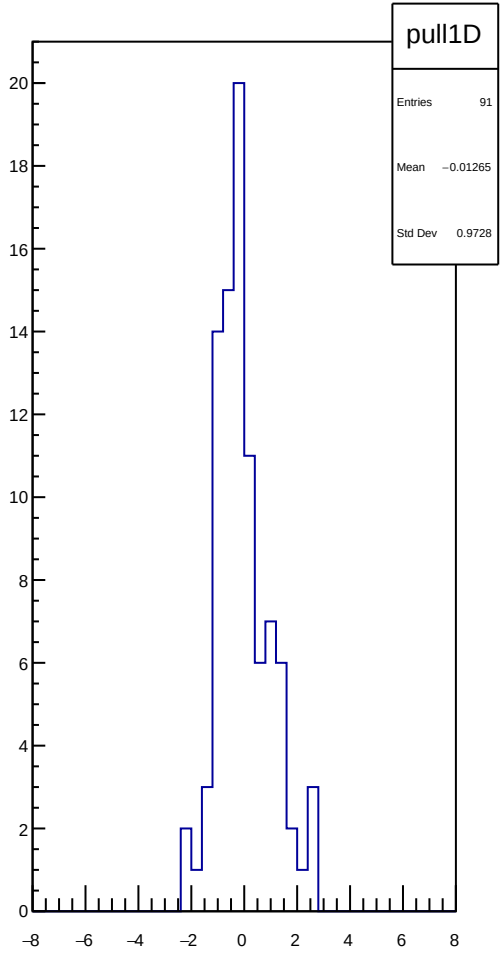

diff_bpm1i04Y_rms vs run
χ² / ndf 1746 / 90
p0 618 ± 0.4675
680
660
640
620
600
580
560
540
520
500
480

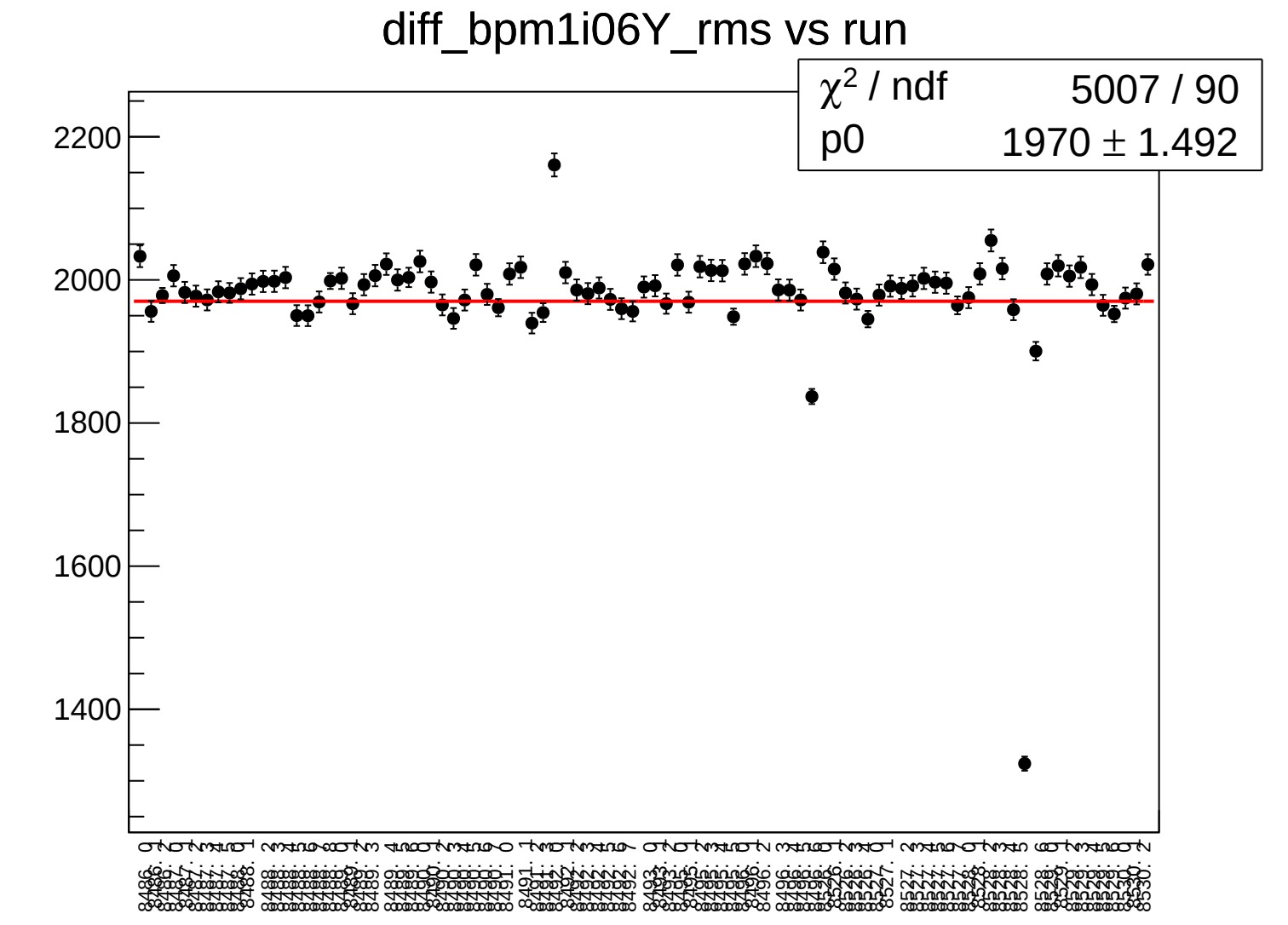

diff_bpm1i06X_mean vs run
χ² / ndf 106.1 / 90
p0 53.69 ± 1.894
pull
Entries 91
Mean 229.5
Std Dev 0

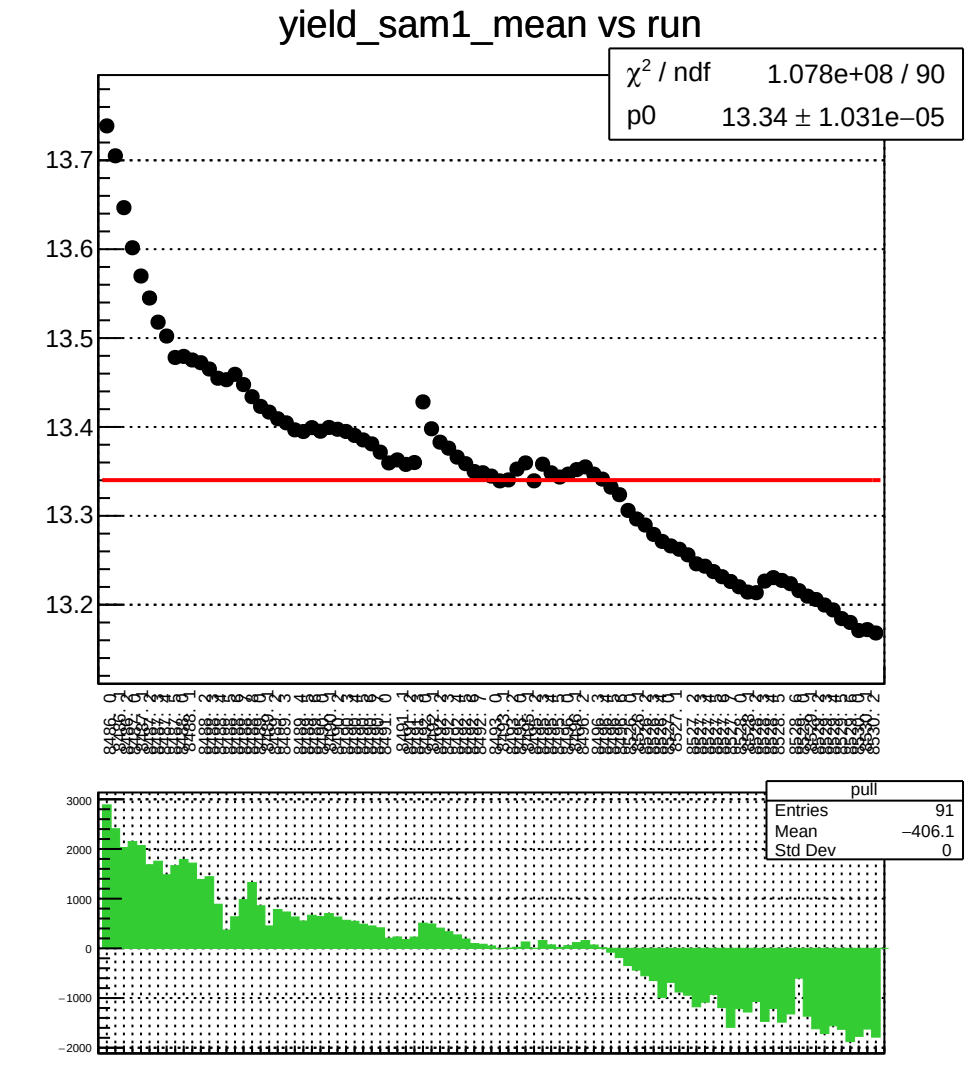

pull1D
Entries 91
Mean −0.007153
Std Dev 1.08

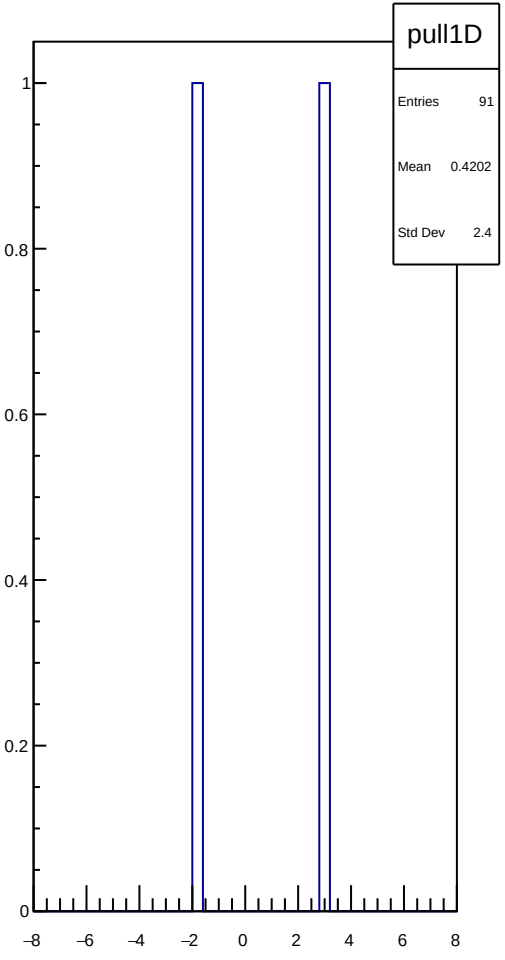

diff_bpm1i06X_rms vs run
χ² / ndf 2666 / 90
p0 1770 ± 1.339
1900
1800
1700
1600
1500
1400
1300

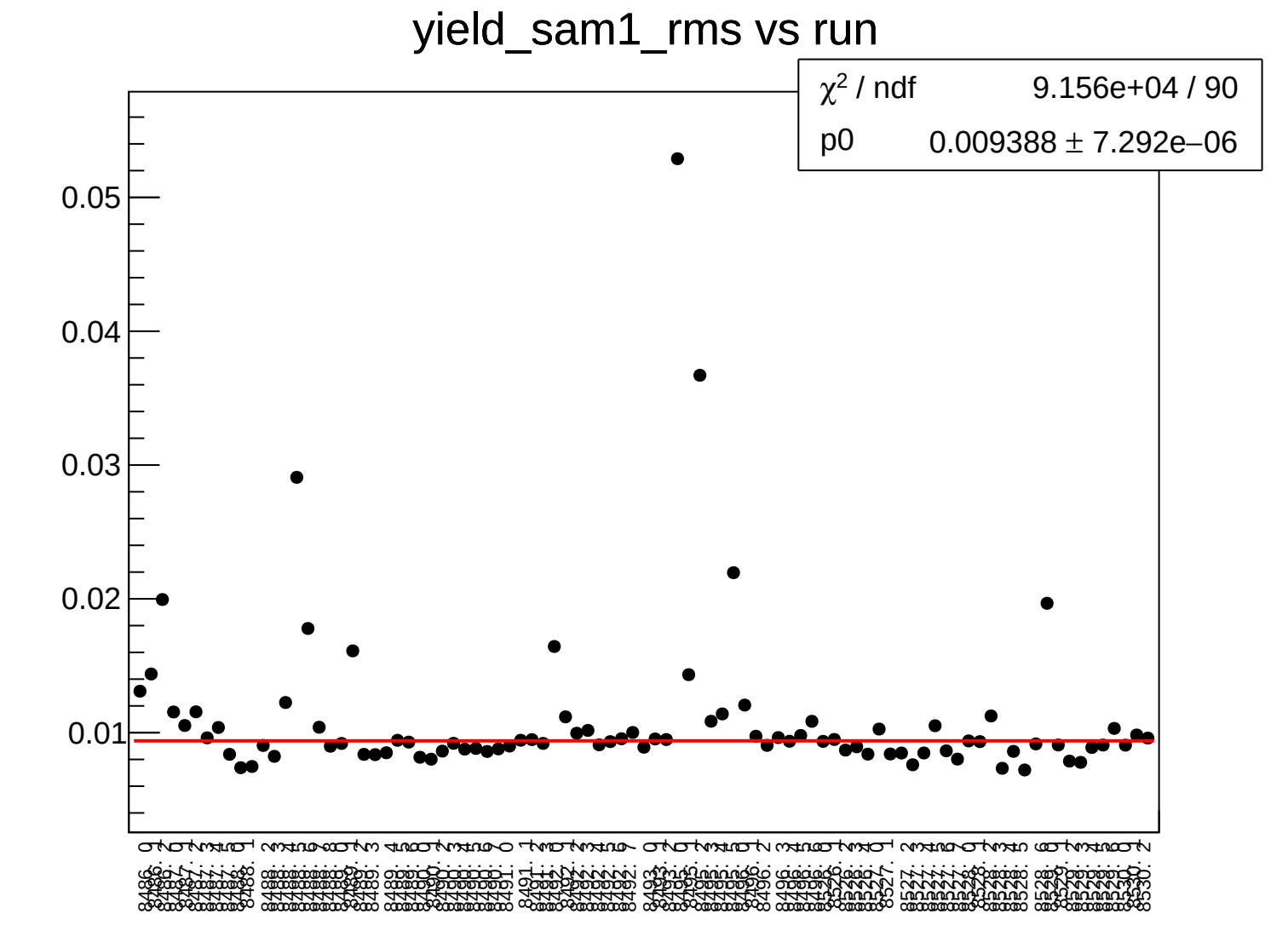

diff_bpm1i06Y_mean vs run
χ² / ndf 86.13 / 90
p0 −40.11 ± 2.11
pull
Entries 91
Mean 171.6
Std Dev 0

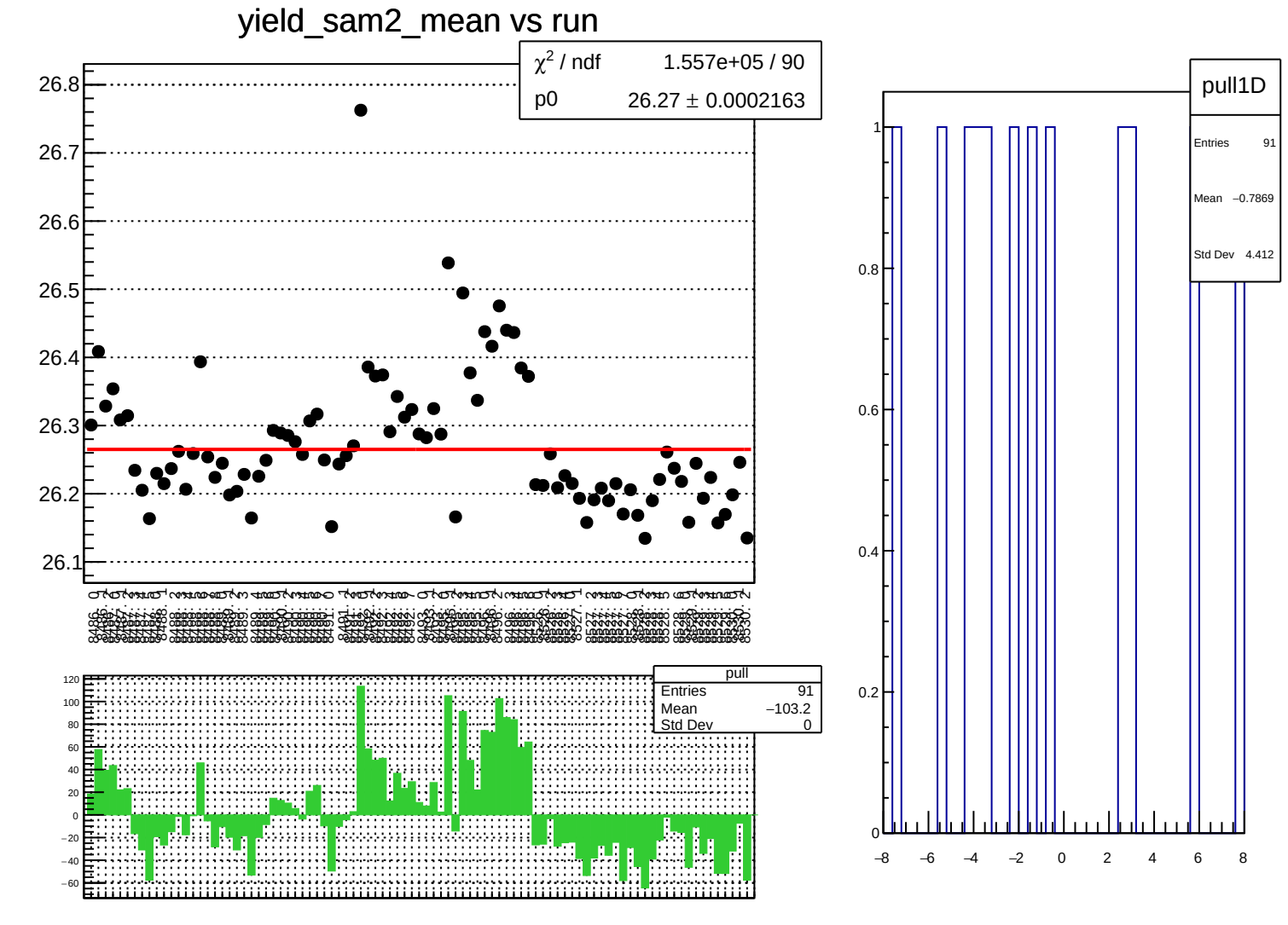

pull1D
Entries 91
Mean −0.01265
Std Dev 0.9728

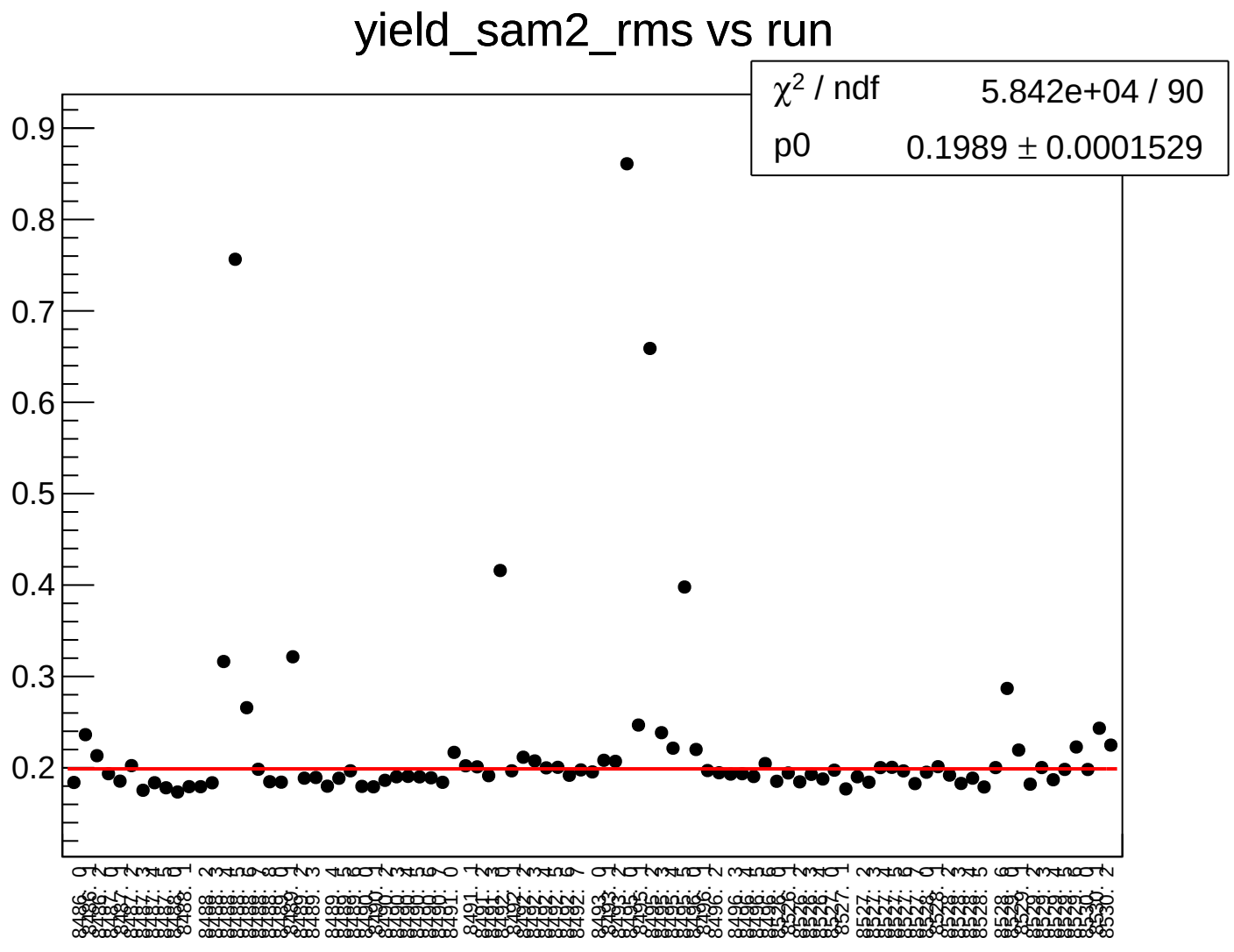

diff_bpm1i06Y_rms vs run
χ² / ndf 5007 / 90
p0 1970 ± 1.492
2200
2000
1800
1600
1400

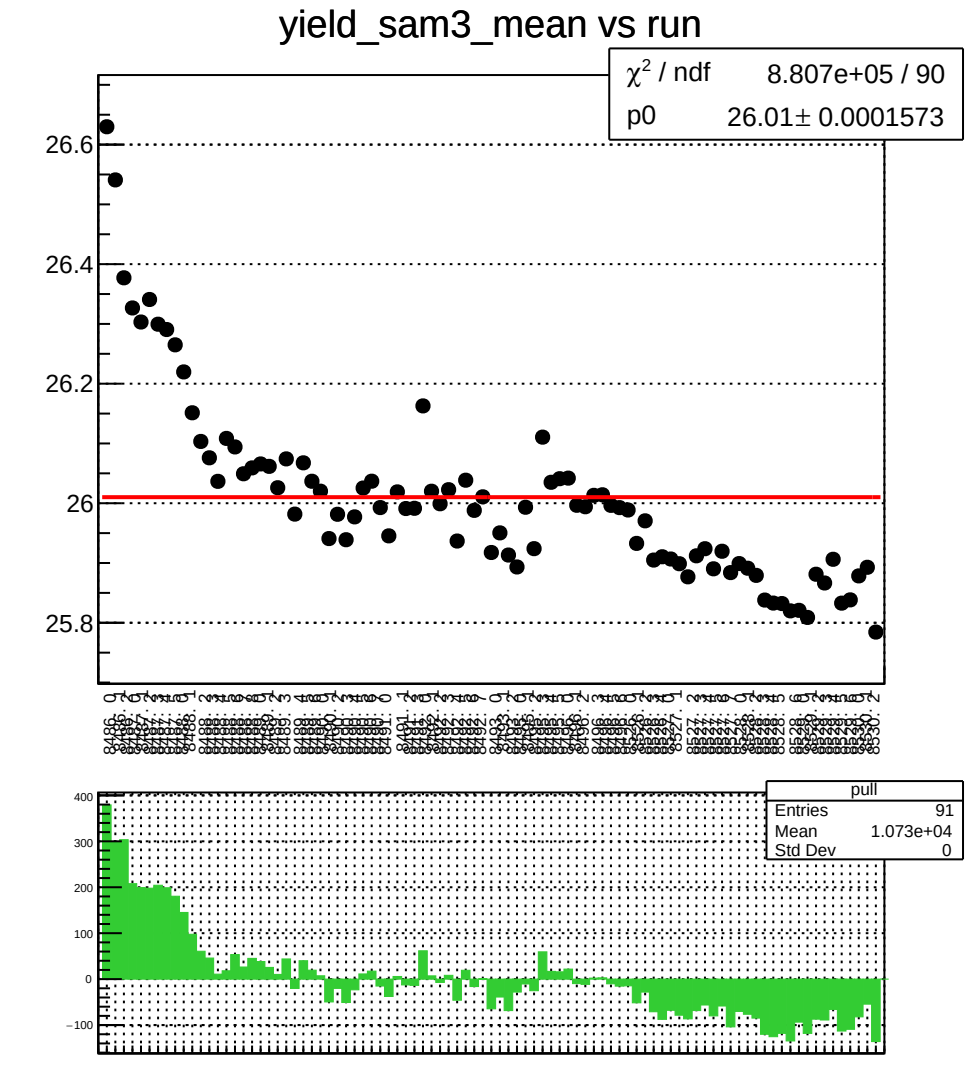

yield_sam1_mean vs run
χ² / ndf 1.078e+08 / 90
p0 13.34 ± 1.031e−05
13.7
13.6
13.5
13.4
13.3
13.2
pull
Entries 91
Mean −406.1
Std Dev 0
3000
2000
1000
0
−1000
−2000

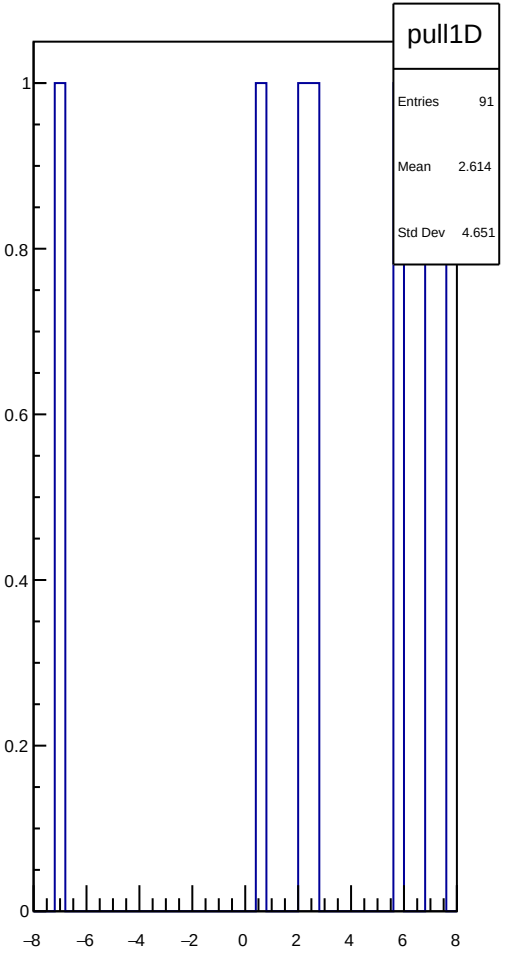

pull1D
Entries 91
Mean 0.4202
Std Dev 2.4
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

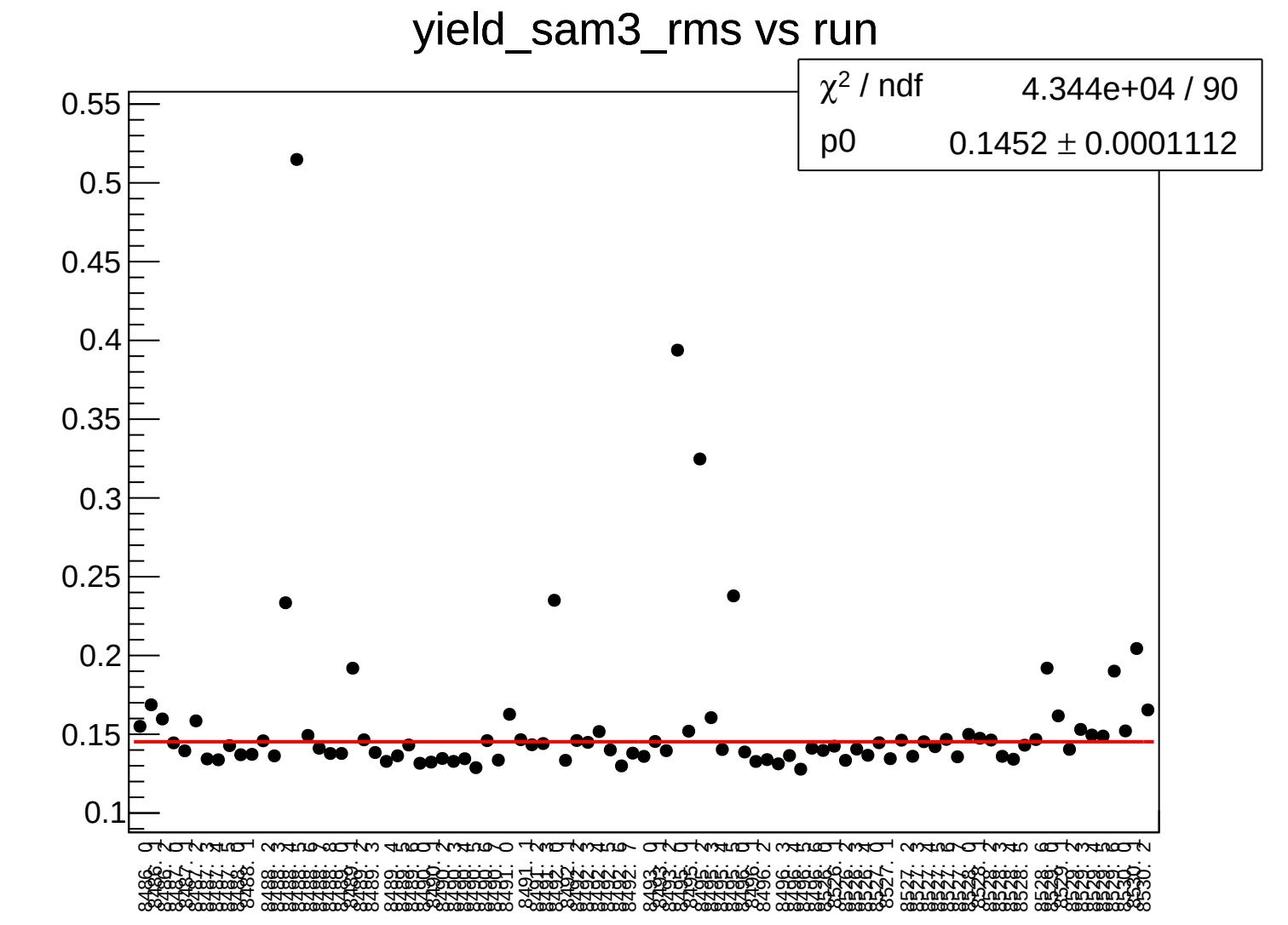

yield_sam1_rms vs run
χ^2 / ndf 9.156e+04 / 90
p0 0.009388 ± 7.292e−06
0.05
0.04
0.03
0.02
0.01

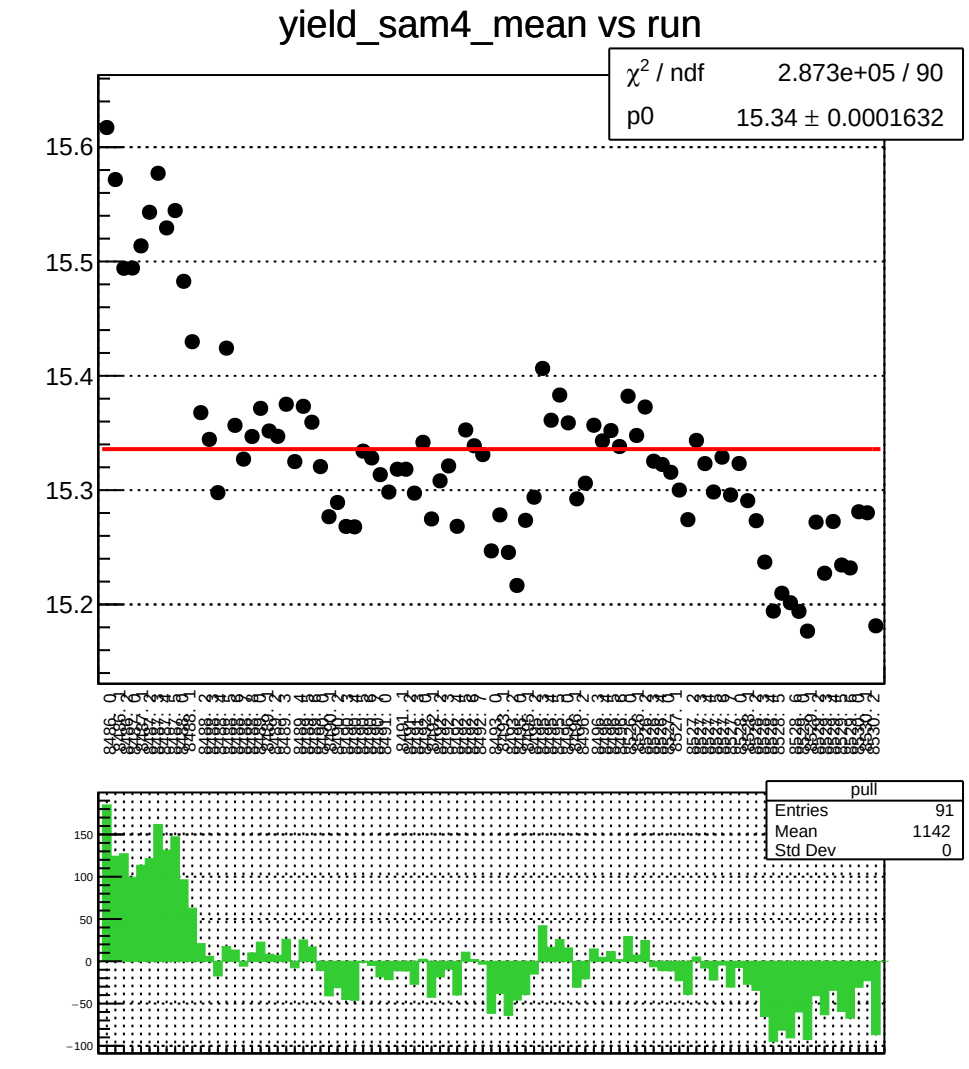

yield_sam2_mean vs run
χ² / ndf 1.557e+05 / 90
p0 26.27 ± 0.0002163
26.8
26.7
26.6
26.5
26.4
26.3
26.2
26.1
pull
Entries 91
Mean −103.2
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60
pull1D
Entries 91
Mean −0.7869
Std Dev 4.412
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

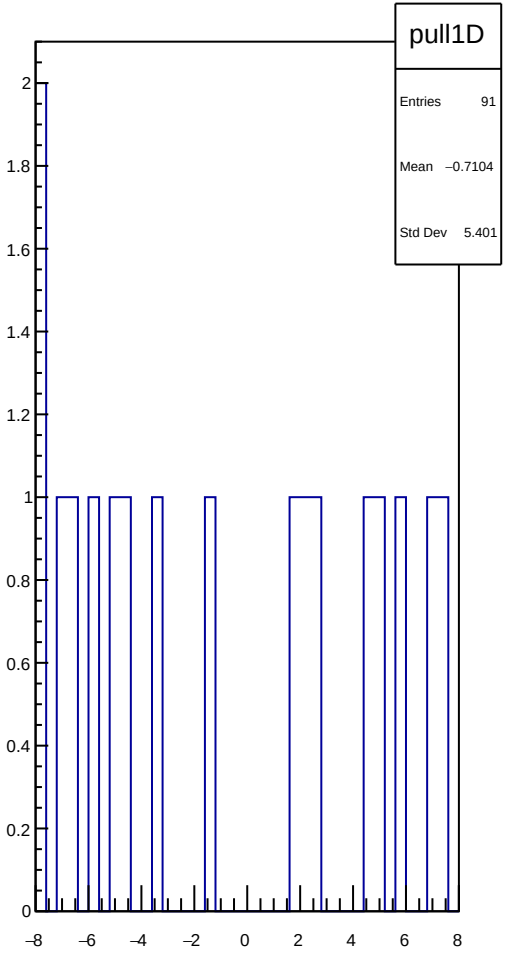

yield_sam2_rms vs run
χ^2 / ndf 5.842e+04 / 90
p0 0.1989 ± 0.0001529
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2

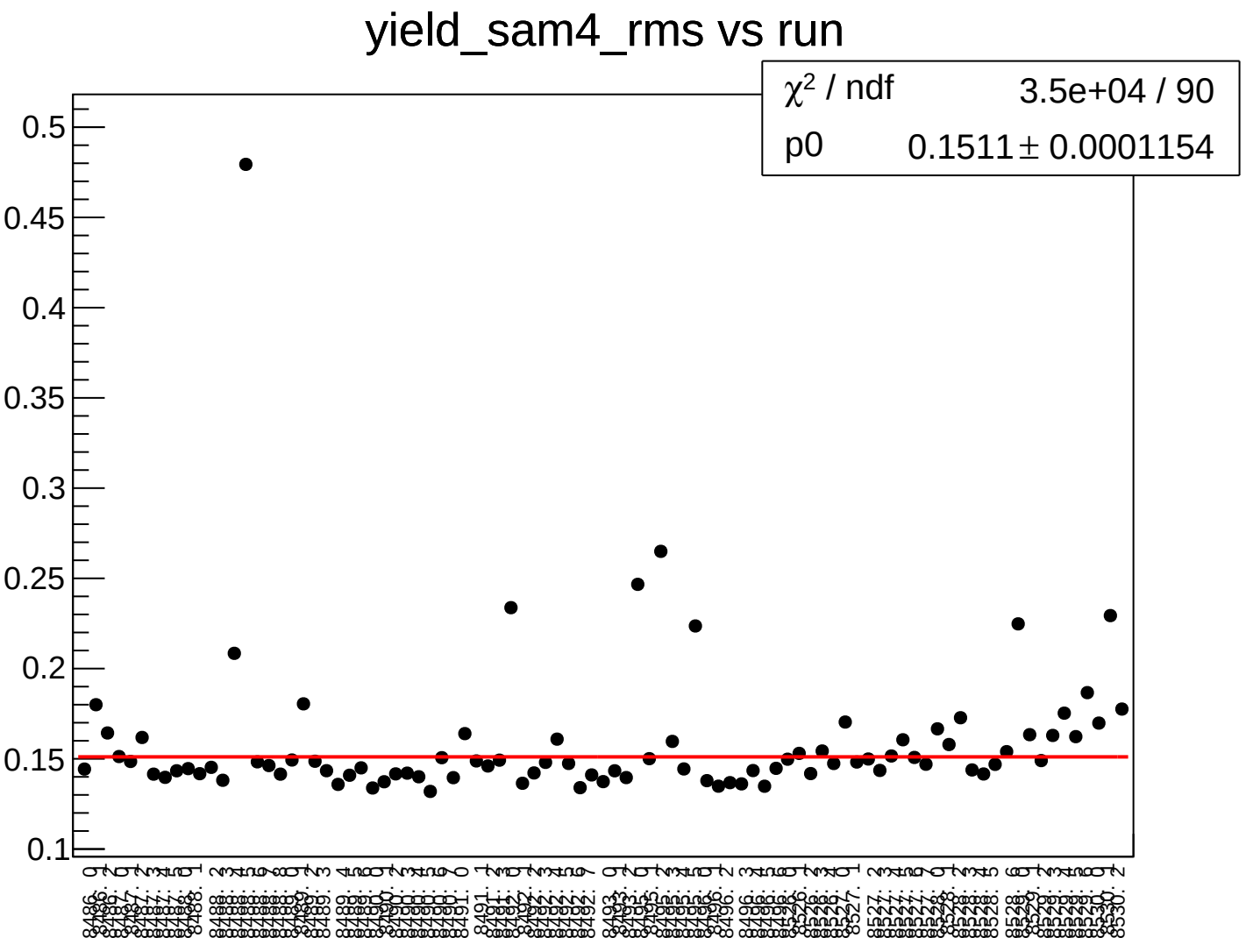

yield_sam3_mean vs run
χ² / ndf 8.807e+05 / 90
p0 26.01± 0.0001573
26.6
26.4
26.2
26
25.8
pull
Entries 91
Mean 1.073e+04
Std Dev 0
400
300
200
100
0
−100

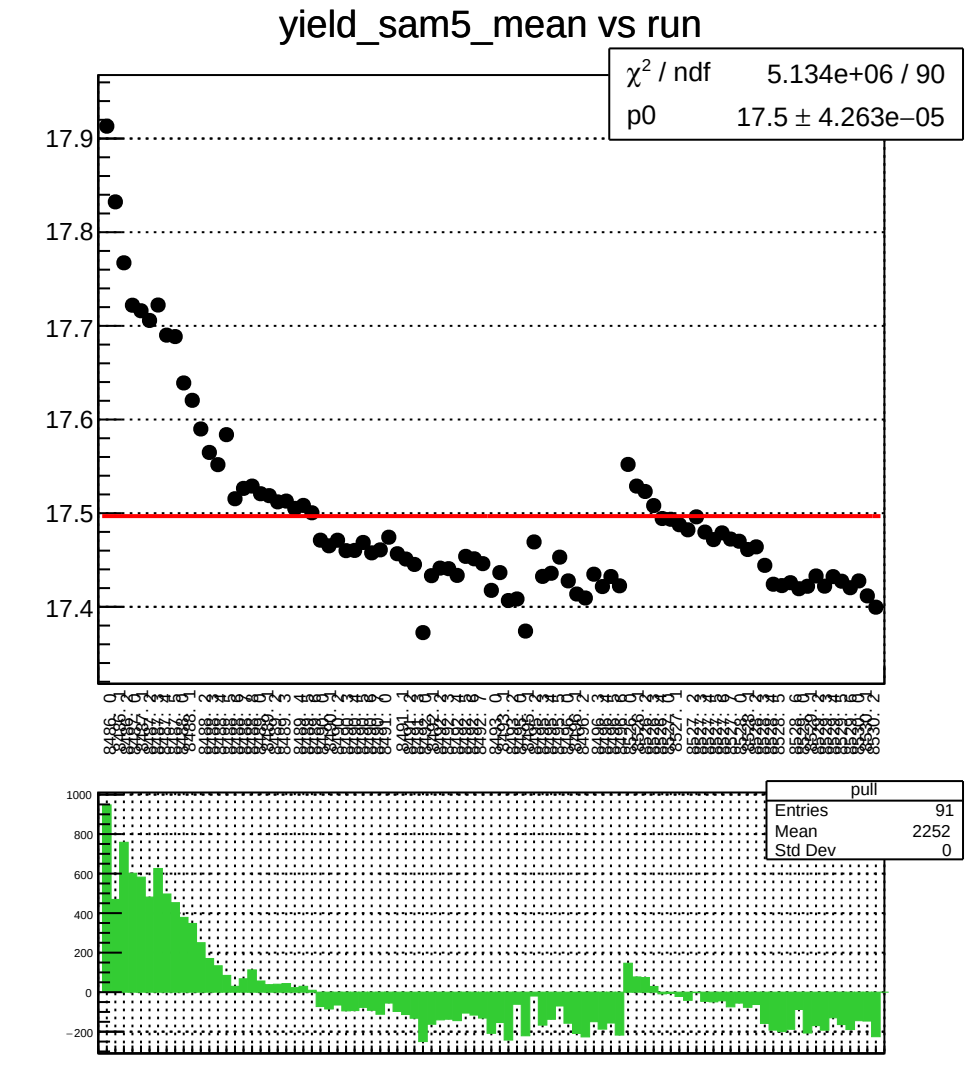

pull1D
Entries 91
Mean 2.614
Std Dev 4.651
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

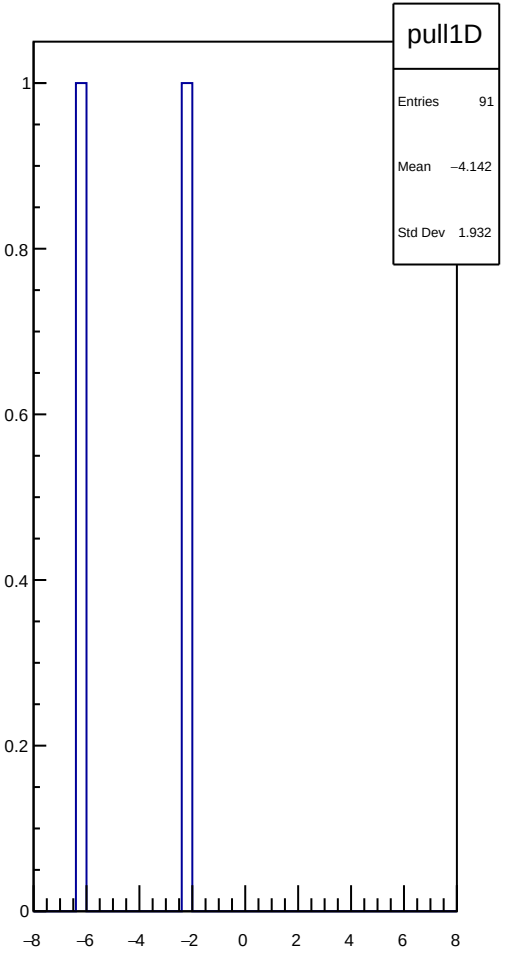

yield_sam3_rms vs run
χ² / ndf 4.344e+04 / 90
p0 0.1452 ± 0.0001112
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1

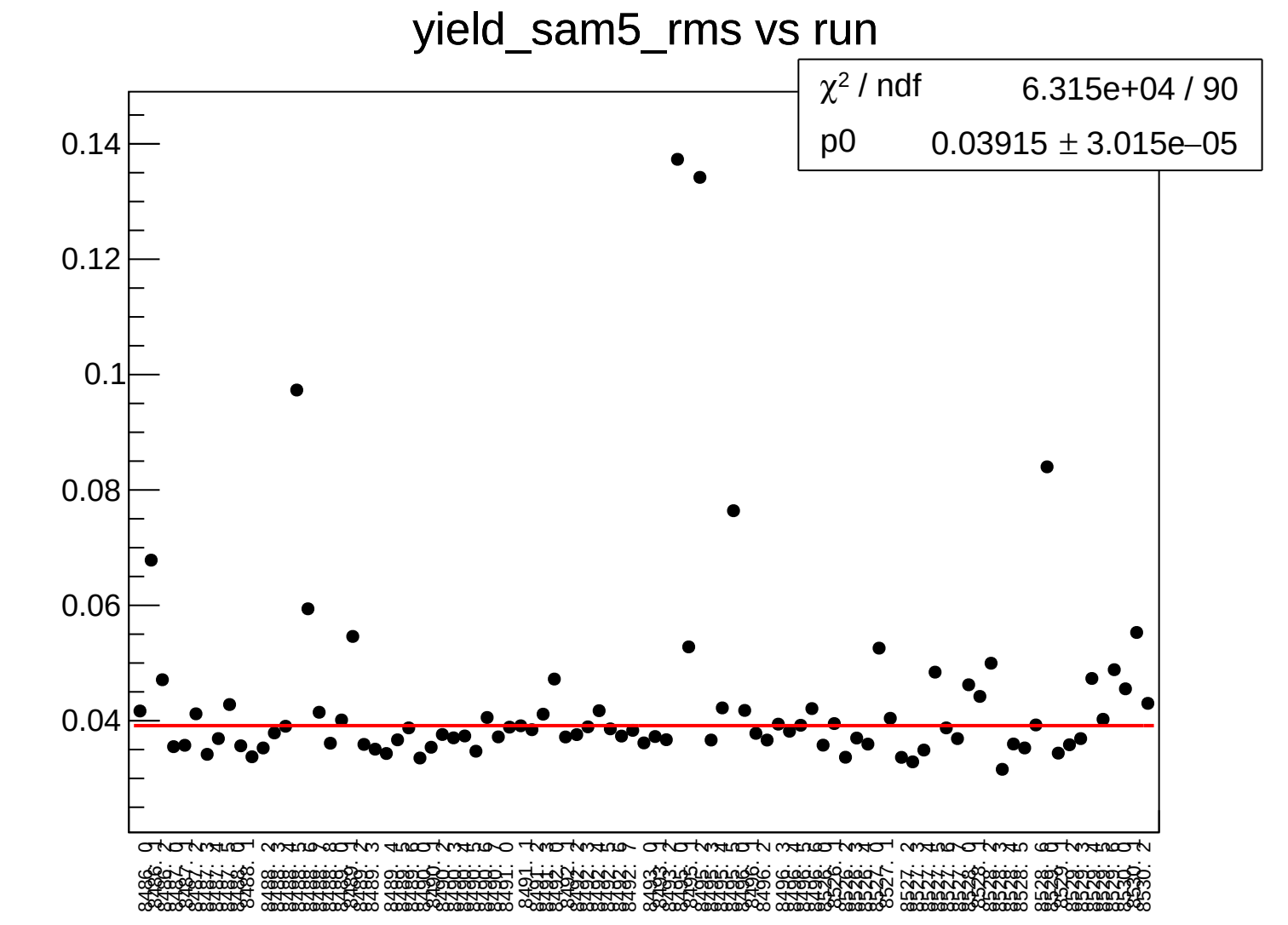

yield_sam4_mean vs run
χ² / ndf 2.873e+05 / 90
p0 15.34 ± 0.0001632
15.6
15.5
15.4
15.3
15.2
pull
Entries 91
Mean 1142
Std Dev 0
150
100
50
0
−50
−100

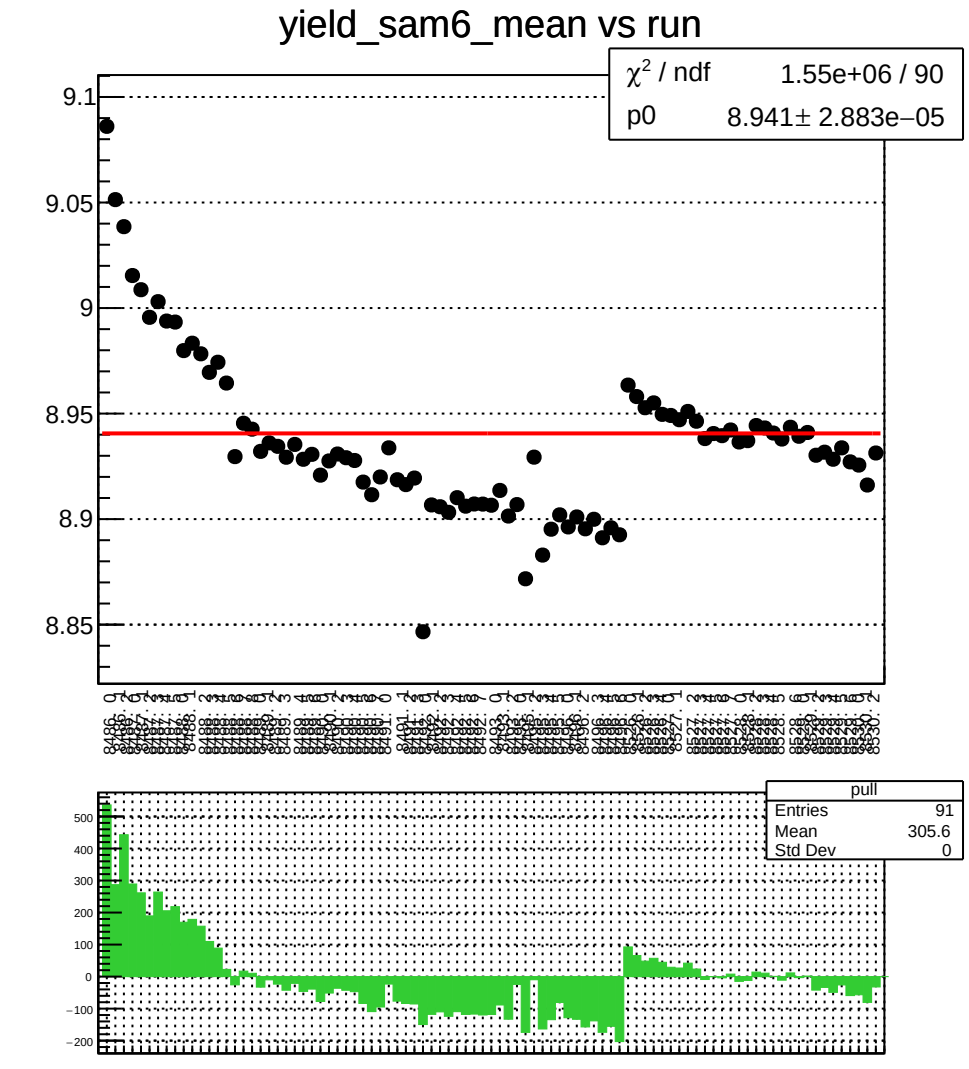

pull1D
Entries 91
Mean −0.7104
Std Dev 5.401
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

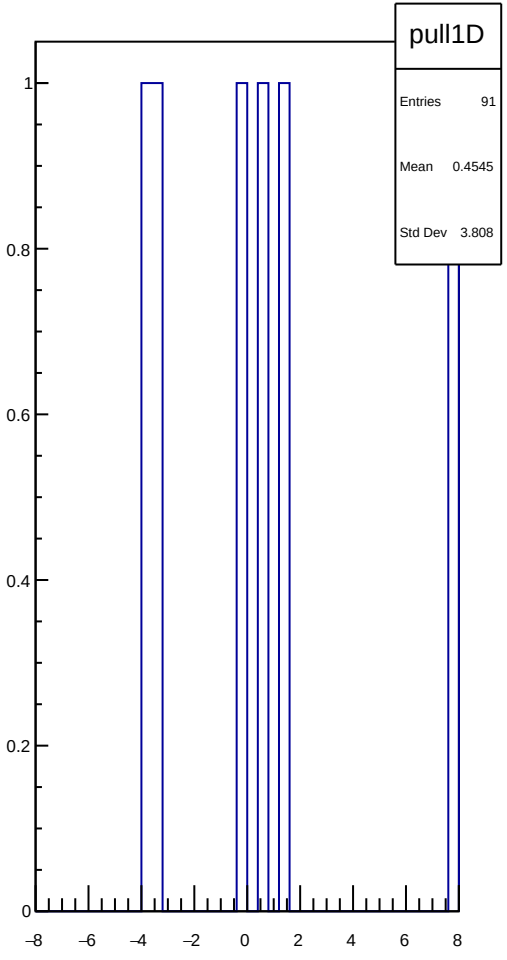

yield_sam4_rms vs run
χ² / ndf 3.5e+04 / 90
p0 0.1511 ± 0.0001154
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1

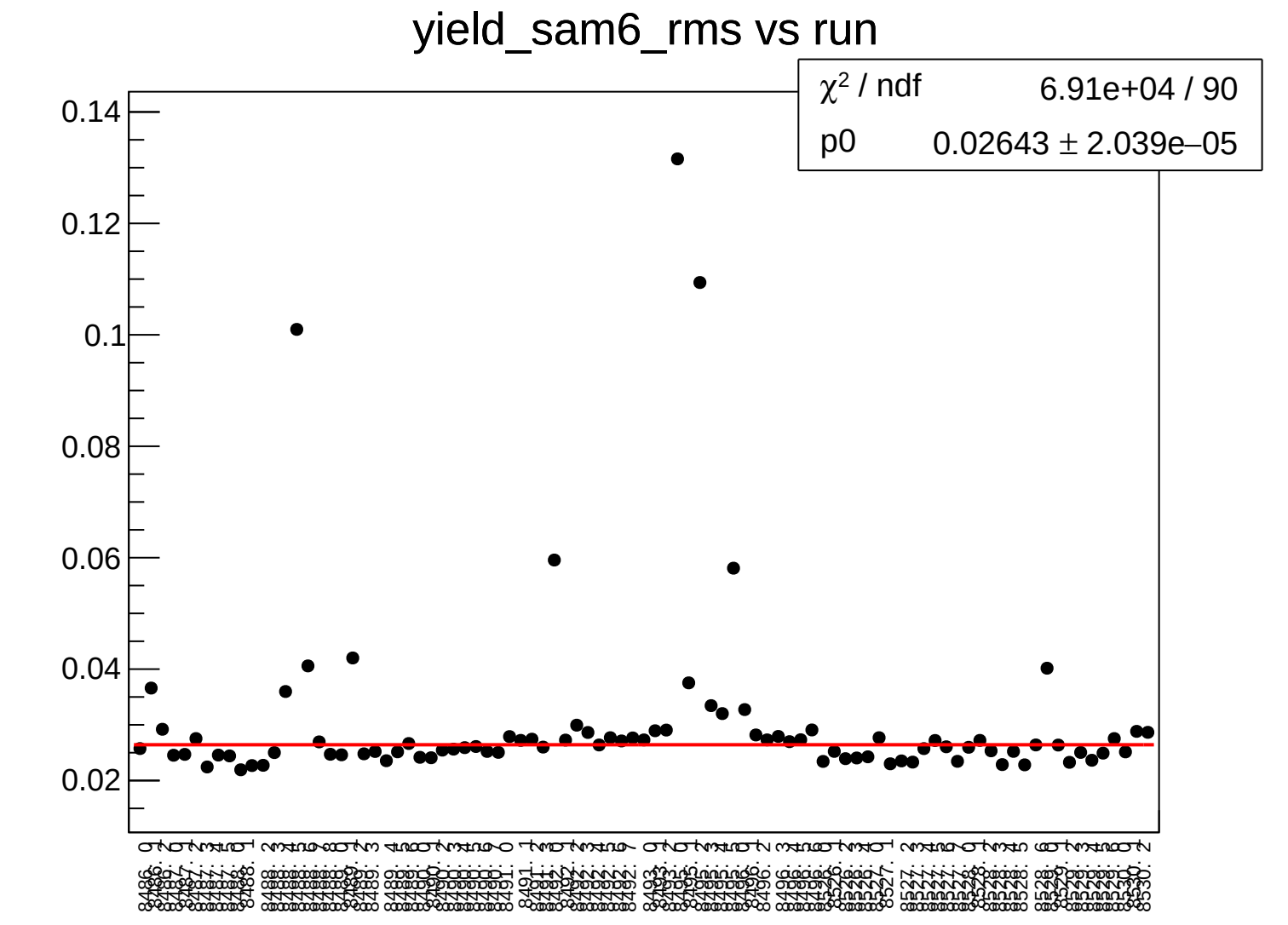

yield_sam5_mean vs run
χ² / ndf 5.134e+06 / 90
p0 17.5 ± 4.263e−05
17.9
17.8
17.7
17.6
17.5
17.4
pull
Entries 91
Mean 2252
Std Dev 0
1000
800
600
400
200
0
−200

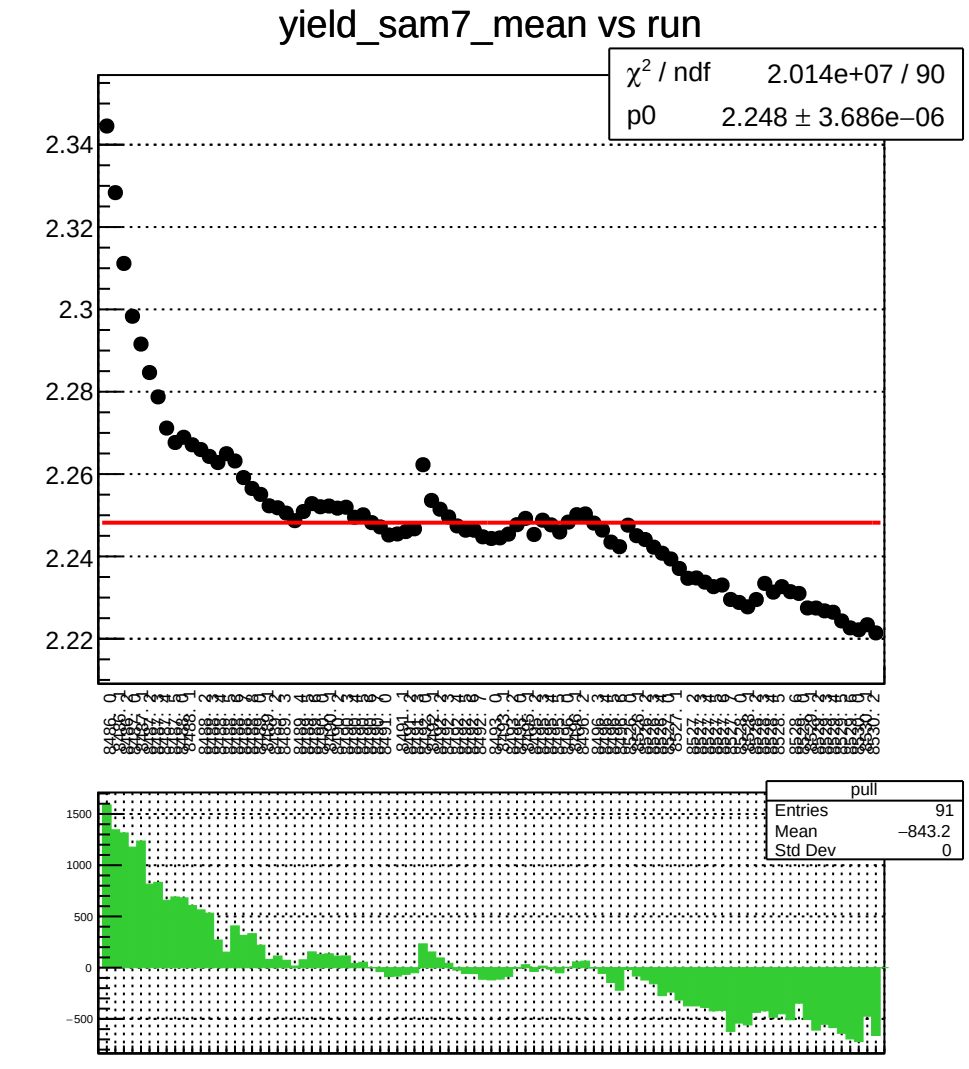

pull1D
Entries 91
Mean −4.142
Std Dev 1.932
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

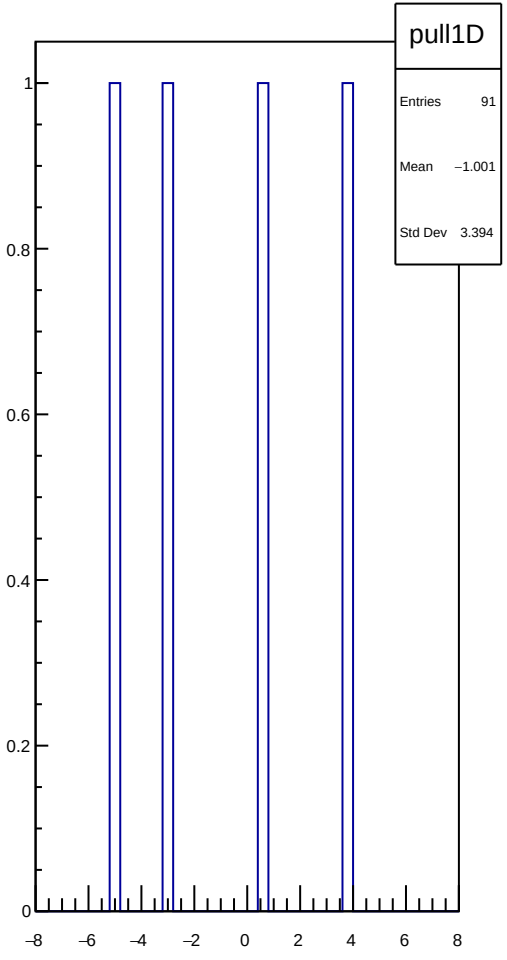

yield_sam5_rms vs run
χ² / ndf 6.315e+04 / 90
p0 0.03915 ± 3.015e−05
0.14
0.12
0.1
0.08
0.06
0.04

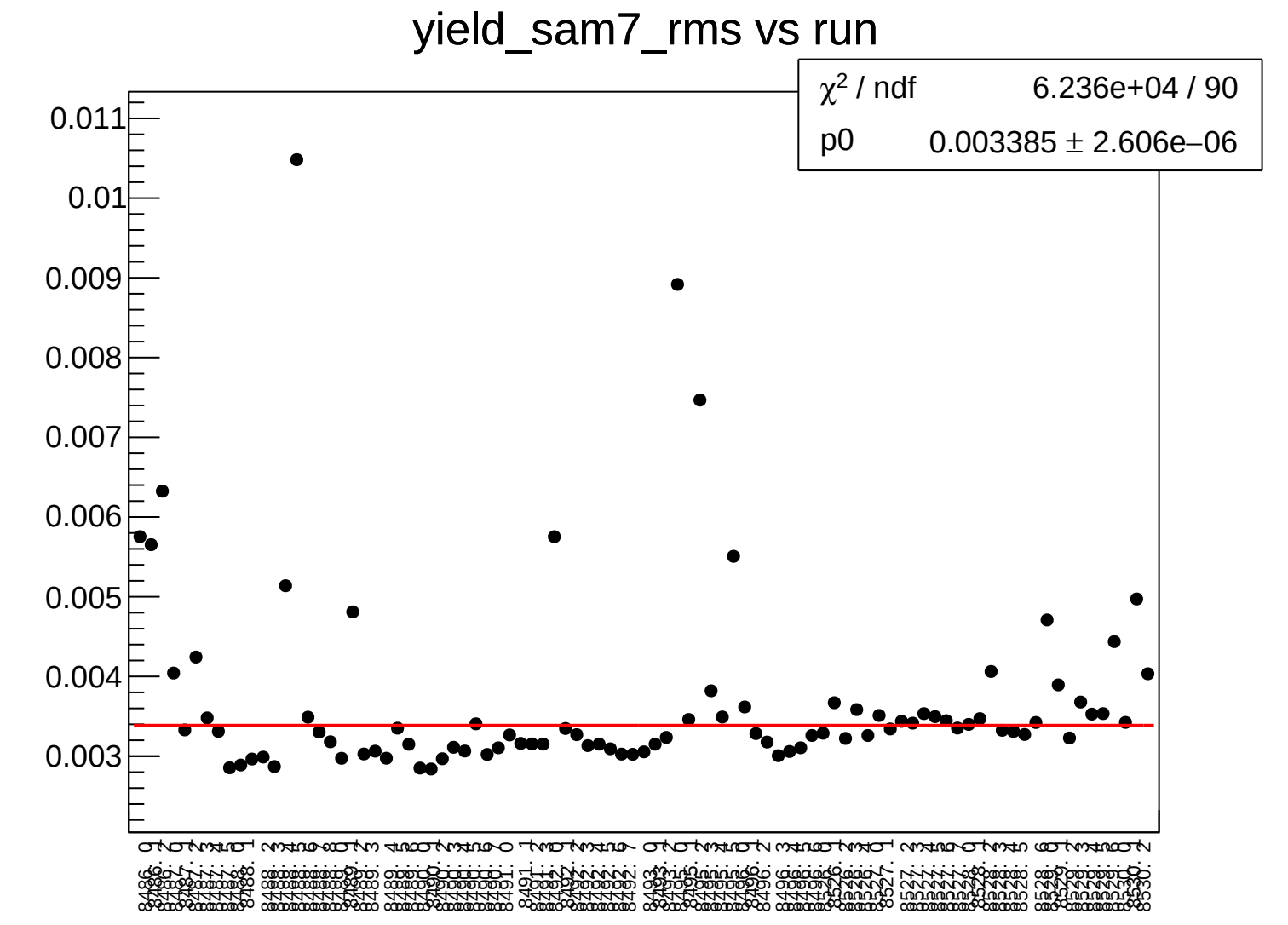

yield_sam6_mean vs run
χ² / ndf 1.55e+06 / 90
p0 8.941± 2.883e−05
9.1
9.05
9
8.95
8.9
8.85
pull
Entries 91
Mean 305.6
Std Dev 0
500
400
300
200
100
0
−100
−200

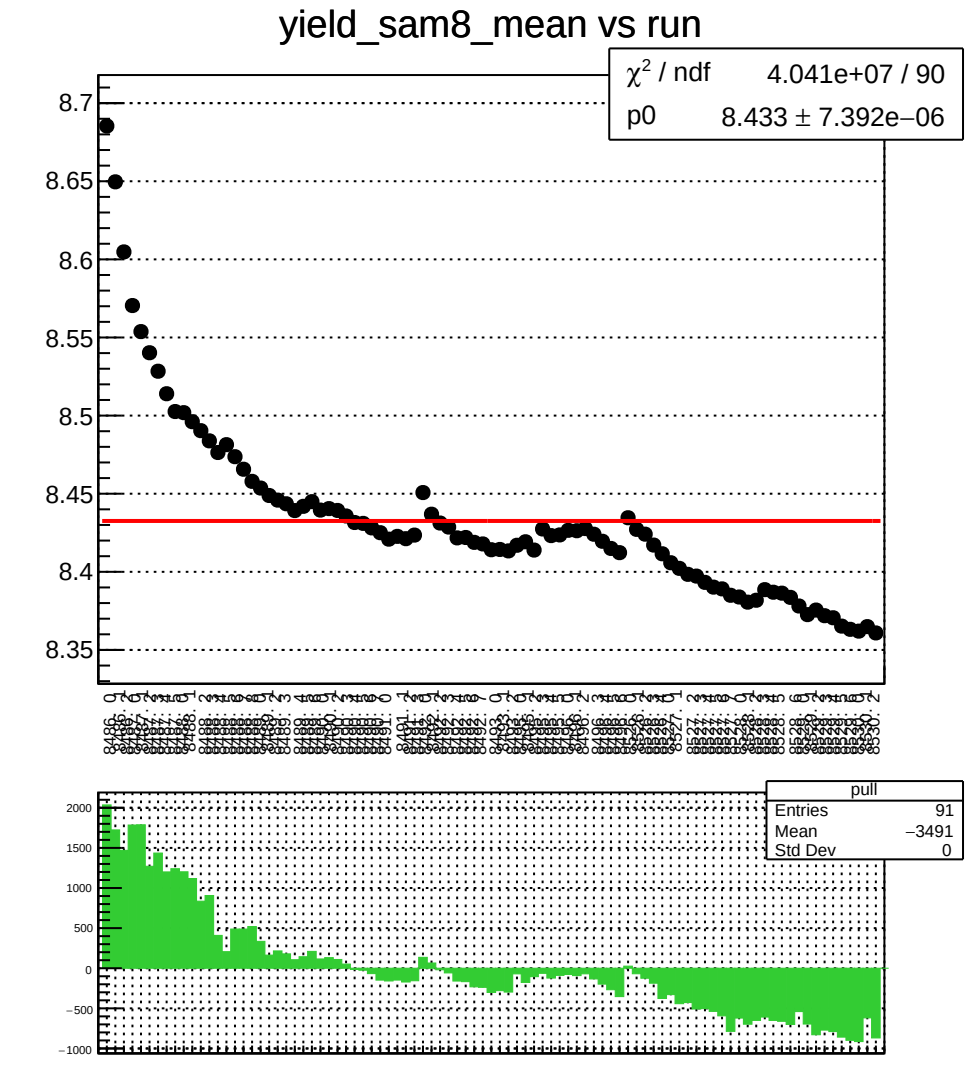

pull1D
Entries 91
Mean 0.4545
Std Dev 3.808
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

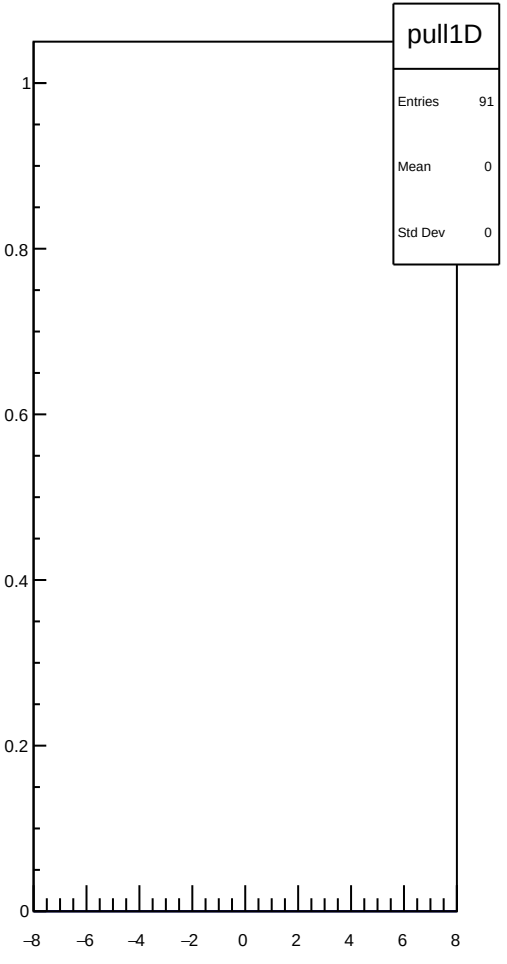

yield_sam6_rms vs run
χ² / ndf 6.91e+04 / 90
p0 0.02643 ± 2.039e−05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

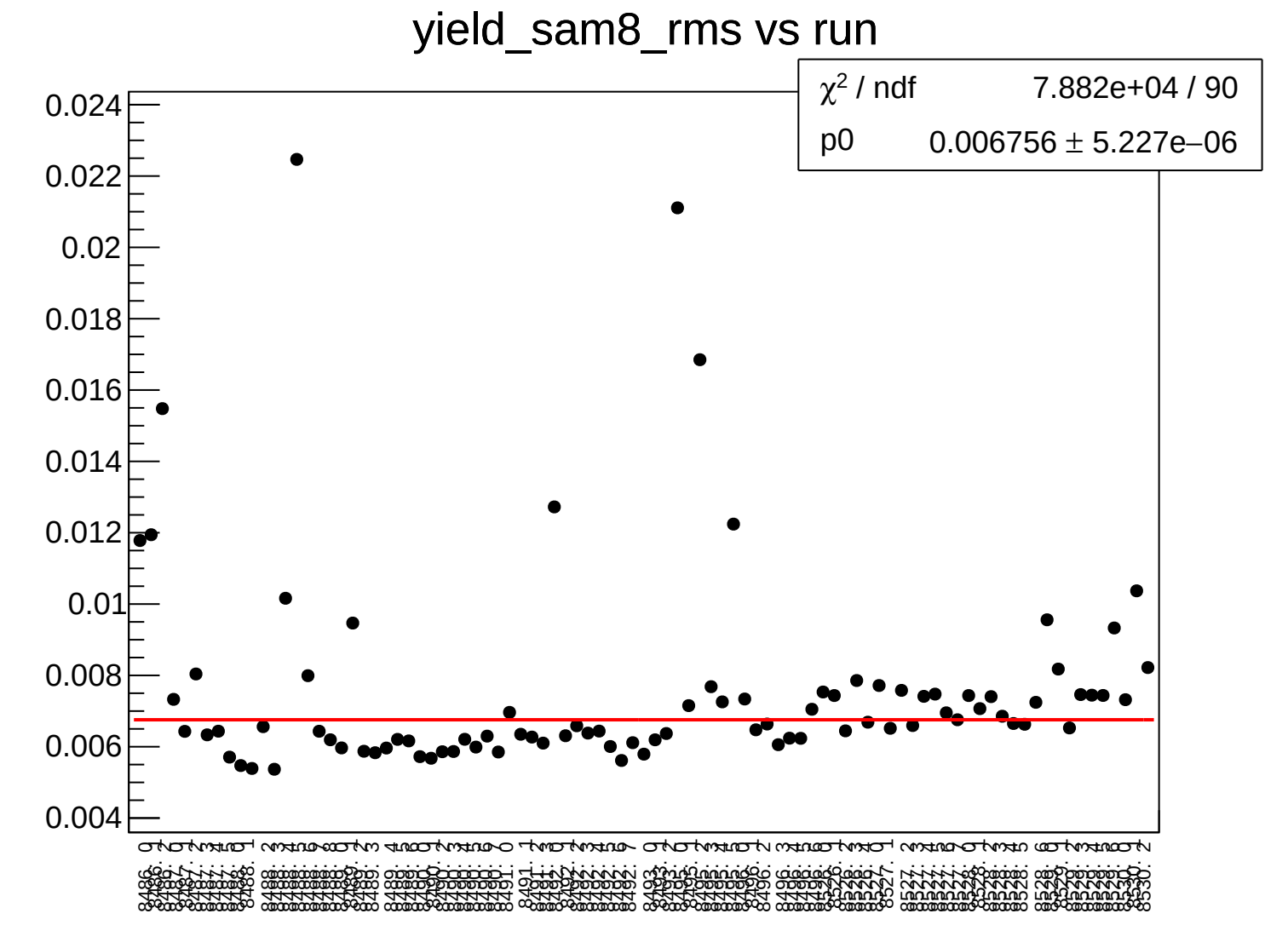

yield_sam7_mean vs run
χ² / ndf 2.014e+07 / 90
p0 2.248 ± 3.686e−06
2.34
2.32
2.3
2.28
2.26
2.24
2.22
pull
Entries 91
Mean −843.2
Std Dev 0
1500
1000
500
0
−500

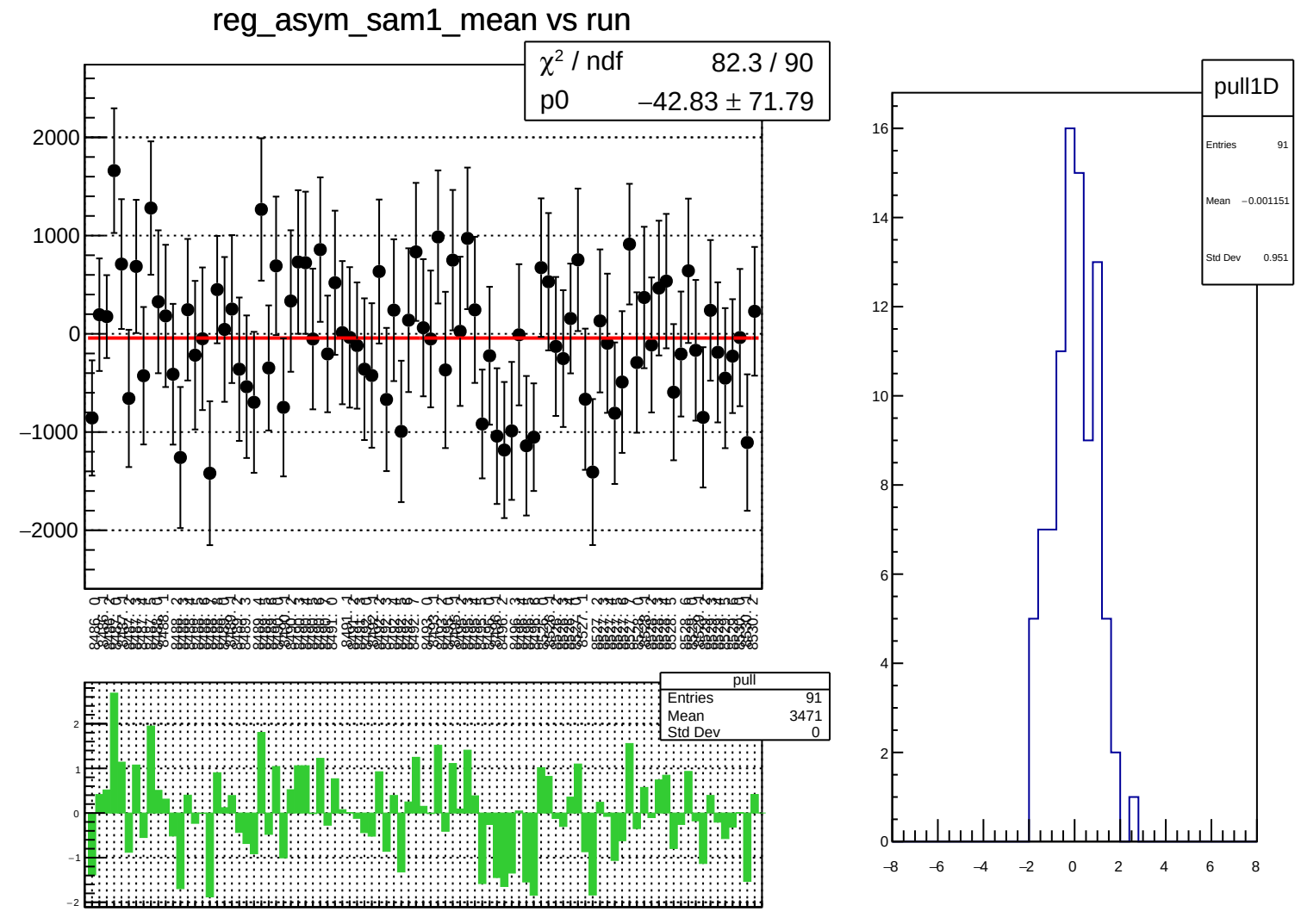

pull1D
Entries 91
Mean −1.001
Std Dev 3.394
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

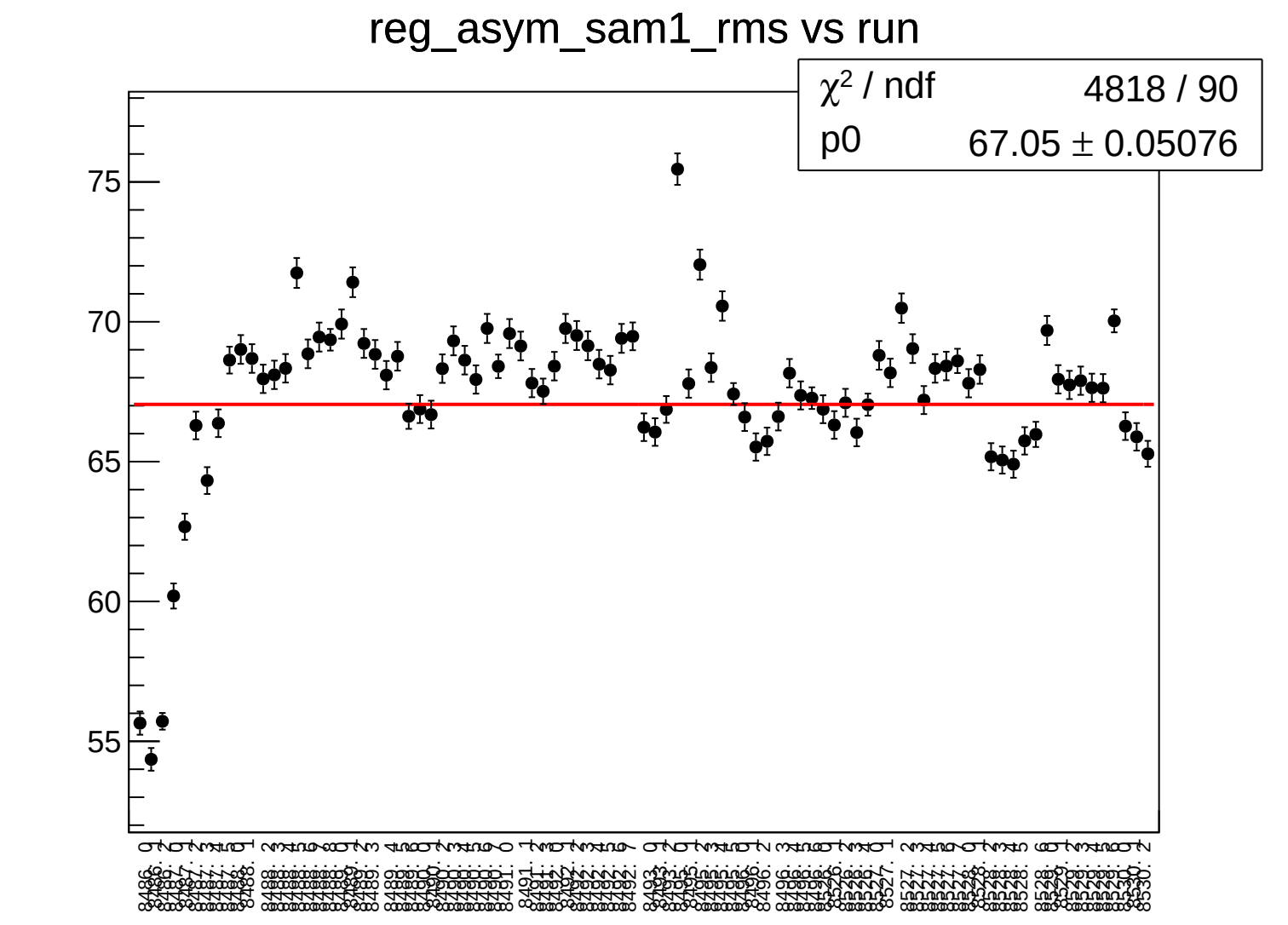

yield_sam7_rms vs run
χ^2 / ndf 6.236e+04 / 90
p0 0.003385 ± 2.606e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

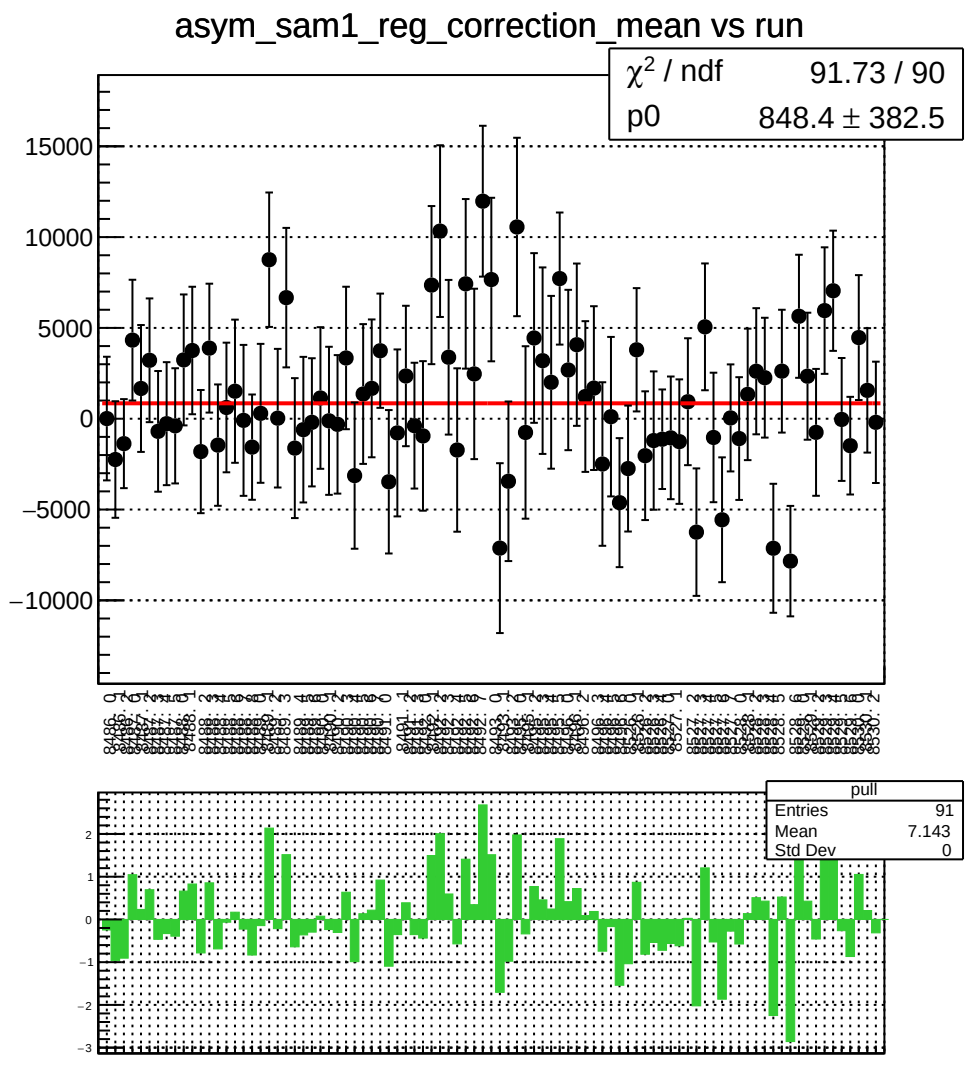

yield_sam8_mean vs run
χ² / ndf 4.041e+07 / 90
p0 8.433 ± 7.392e−06
8.7
8.65
8.6
8.55
8.5
8.45
8.4
8.35
pull
Entries 91
Mean −3491
Std Dev 0
2000
1500
1000
500
0
−500
−1000

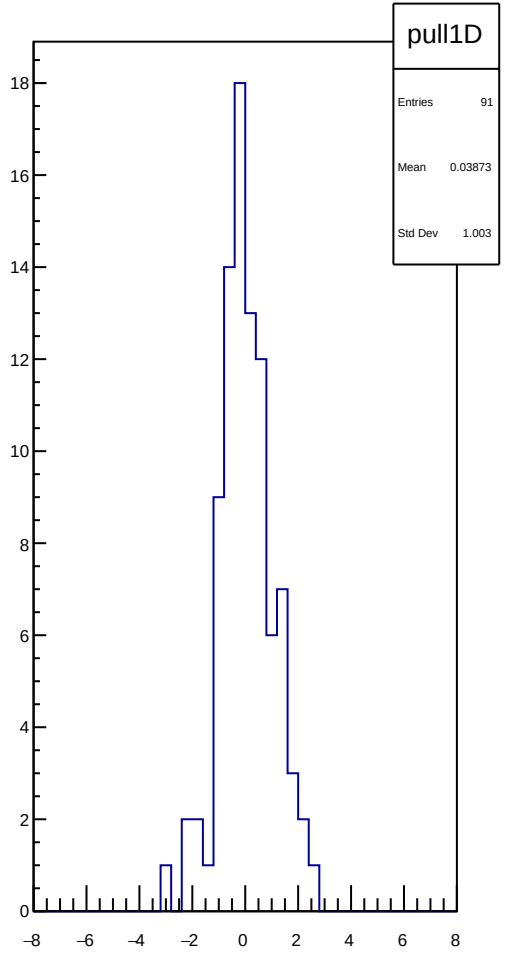

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

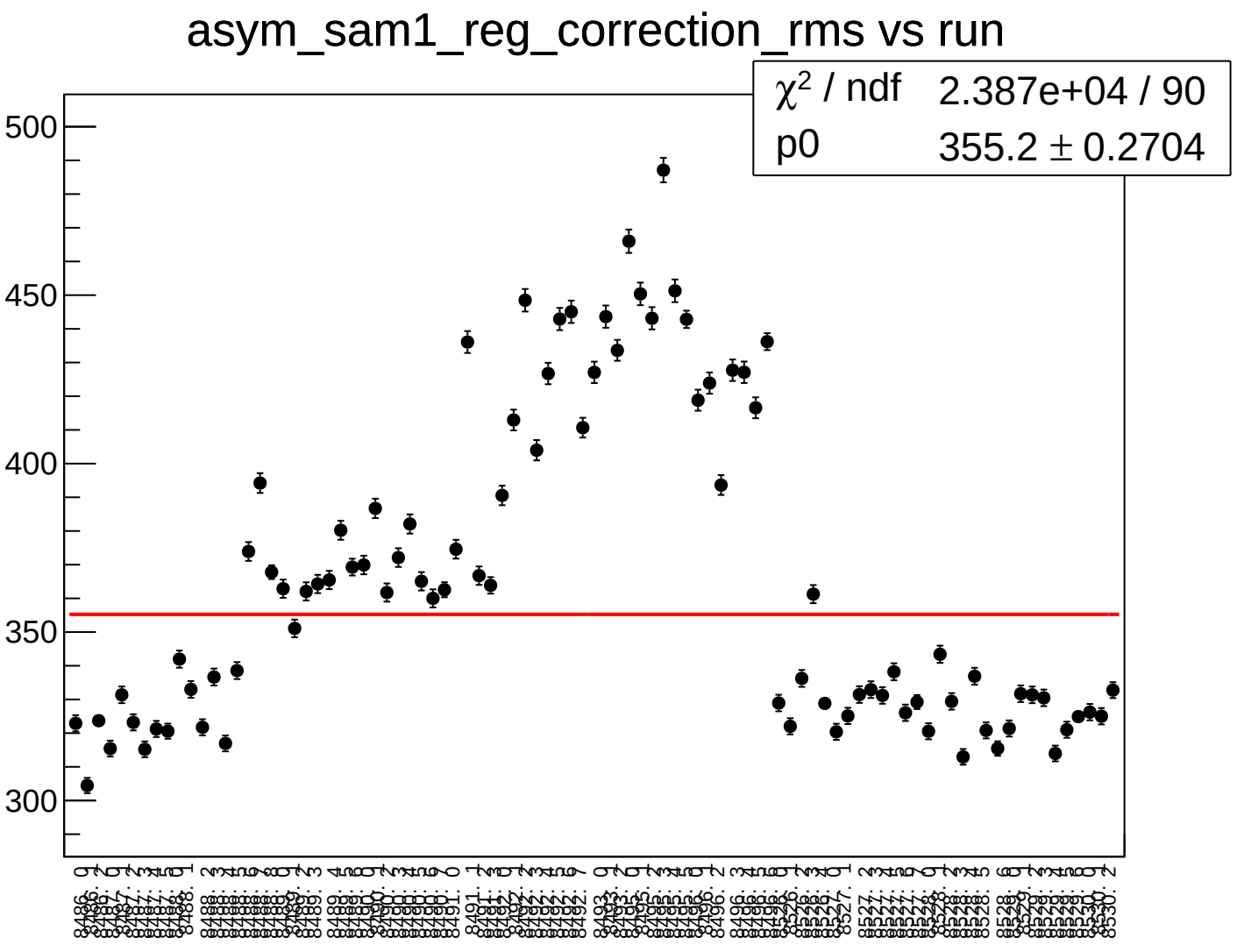

yield_sam8_rms vs run
χ² / ndf 7.882e+04 / 90
p0 0.006756 ± 5.227e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

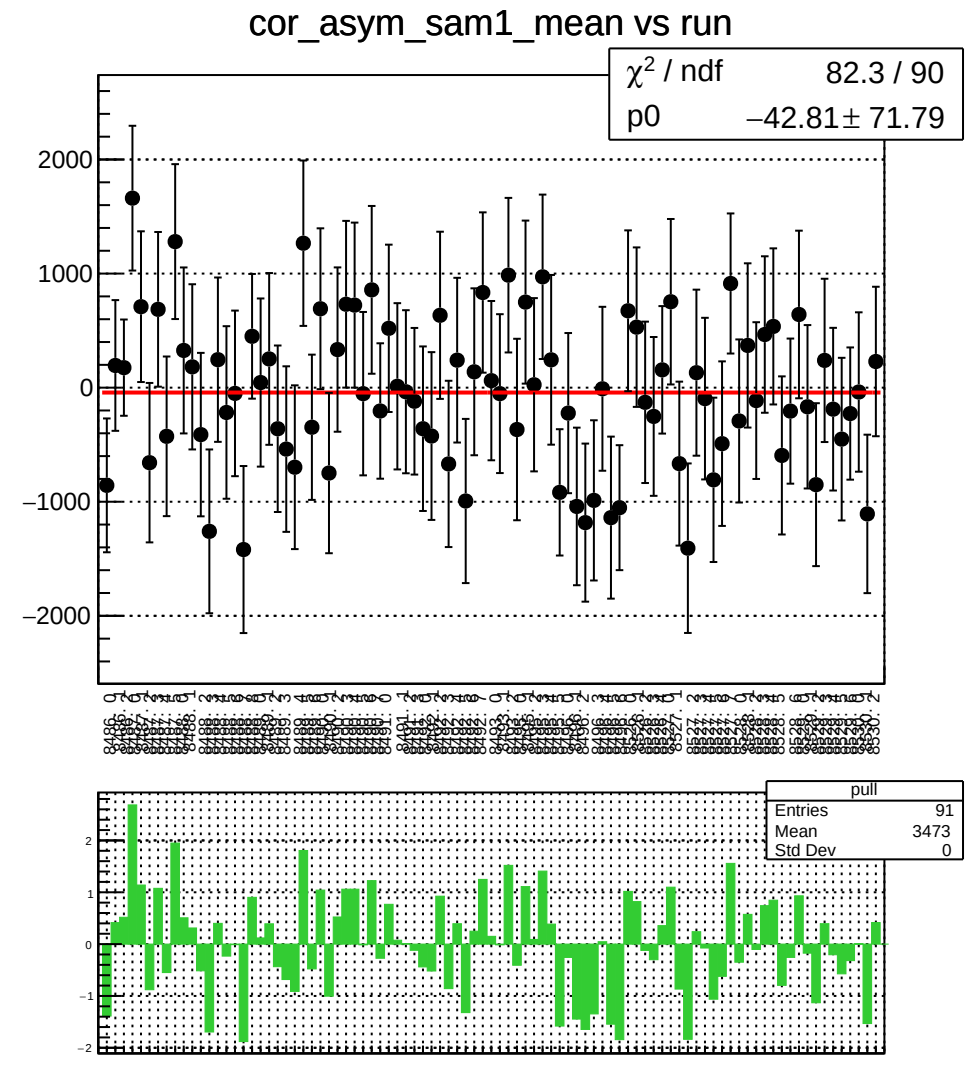

reg_asym_sam1_mean vs run
χ² / ndf 82.3 / 90
p0 −42.83 ± 71.79
2000
1000
0
−1000
−2000
pull
Entries 91
Mean 3471
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.001151
Std Dev 0.951
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

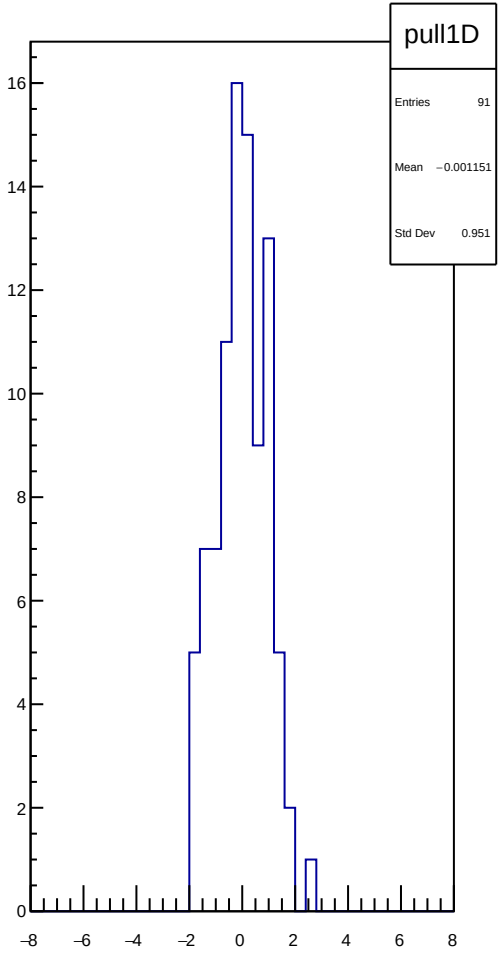

reg_asym_sam1_rms vs run
χ² / ndf 4818 / 90
p0 67.05 ± 0.05076
75
70
65
60
55


asym_sam1_reg_correction_mean vs run
χ² / ndf 91.73 / 90
p0 848.4 ± 382.5
15000
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 7.143
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 91
Mean 0.03873
Std Dev 1.003
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 2.387e+04 / 90
p0 355.2 ± 0.2704
500
450
400
350
300


cor_asym_sam1_mean vs run
χ² / ndf 82.3 / 90
p0 −42.81± 71.79
2000
1000
0
−1000
−2000
pull
Entries 91
Mean 3473
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 91
Mean −0.001151
Std Dev 0.951
16
14
12
10
8
6
4
2
0
−8
−6
−4
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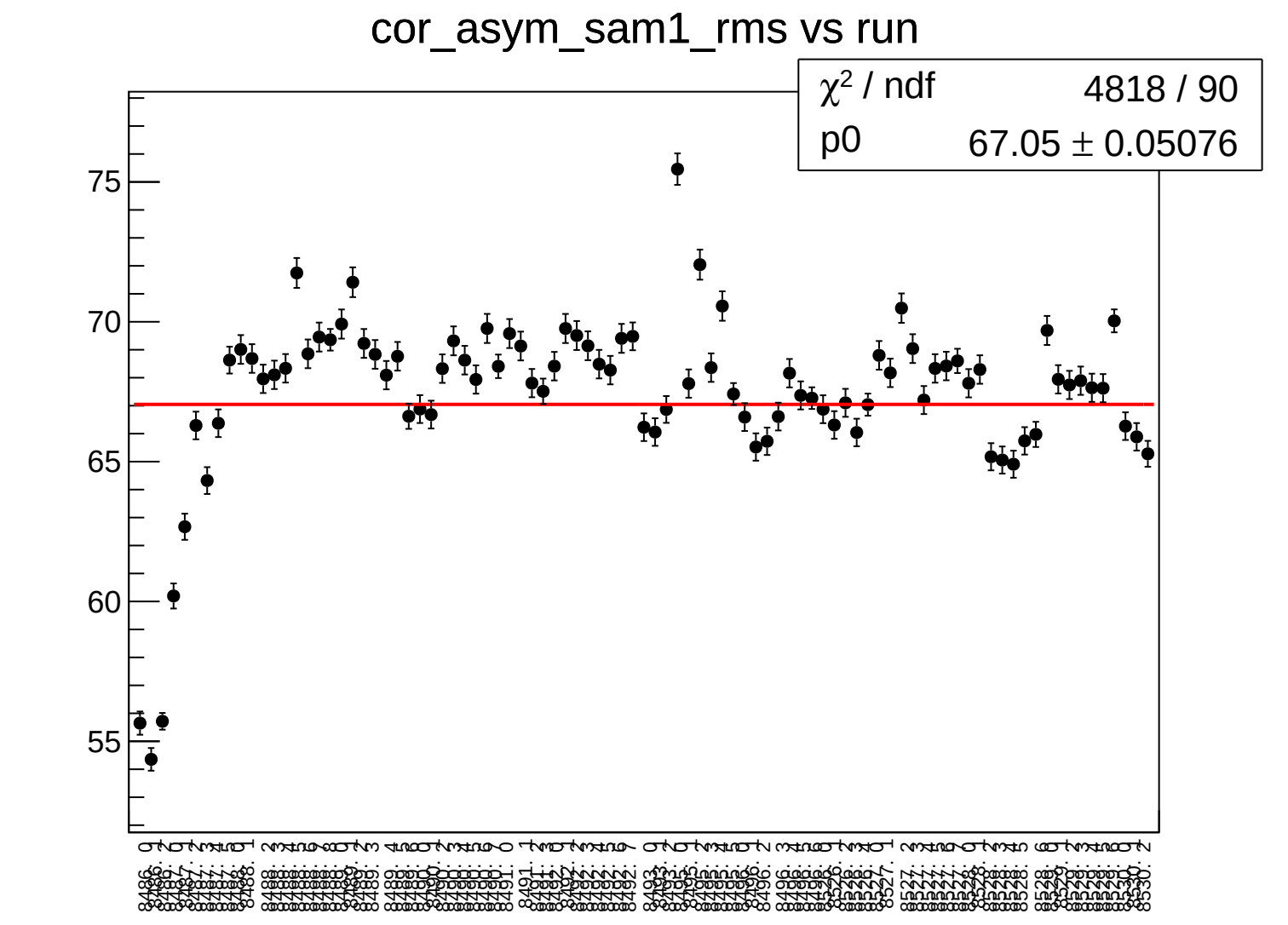
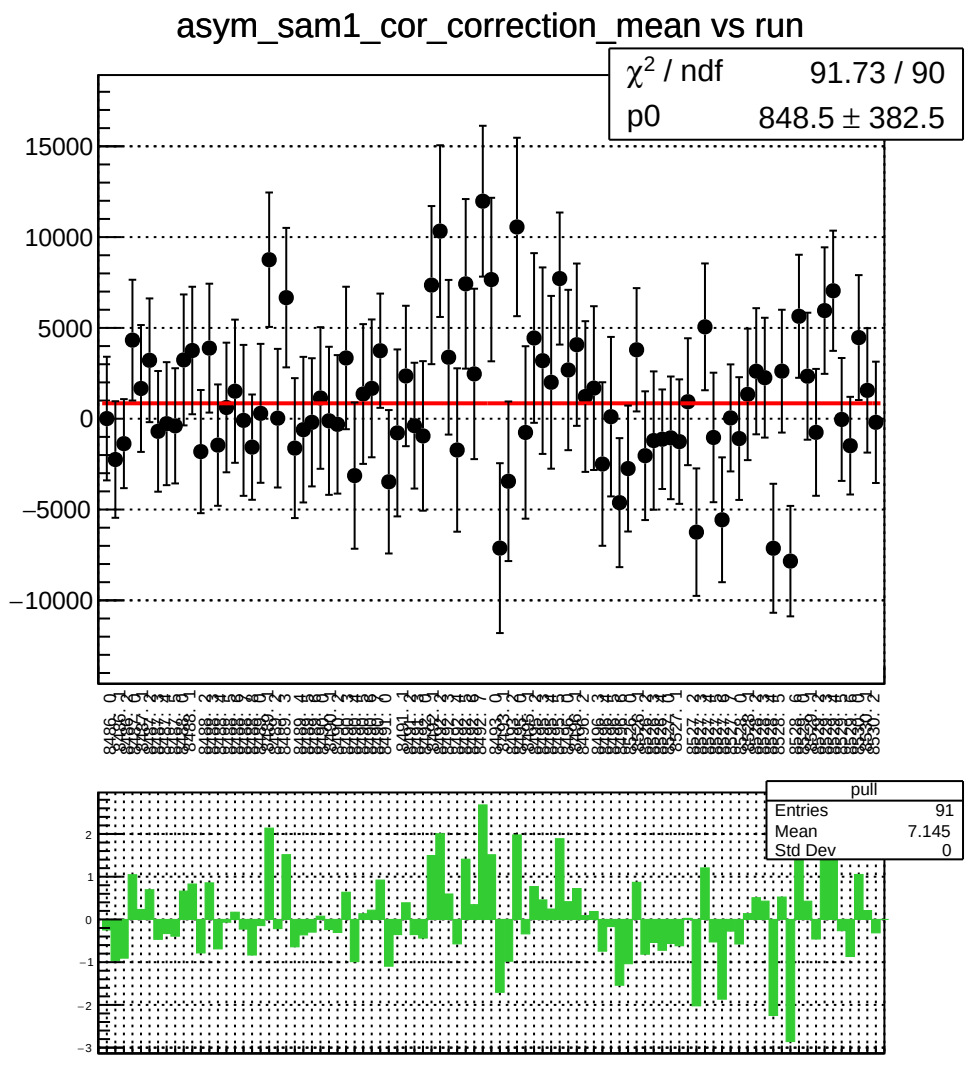
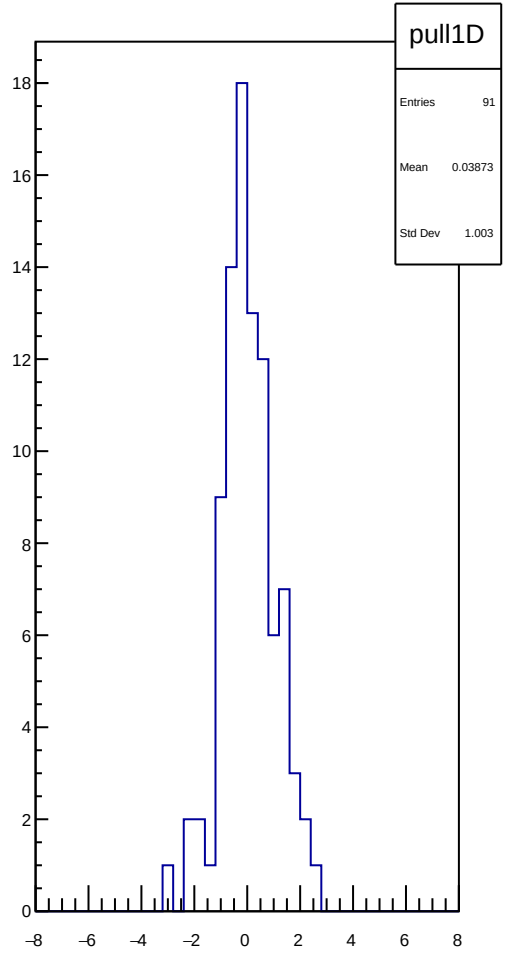
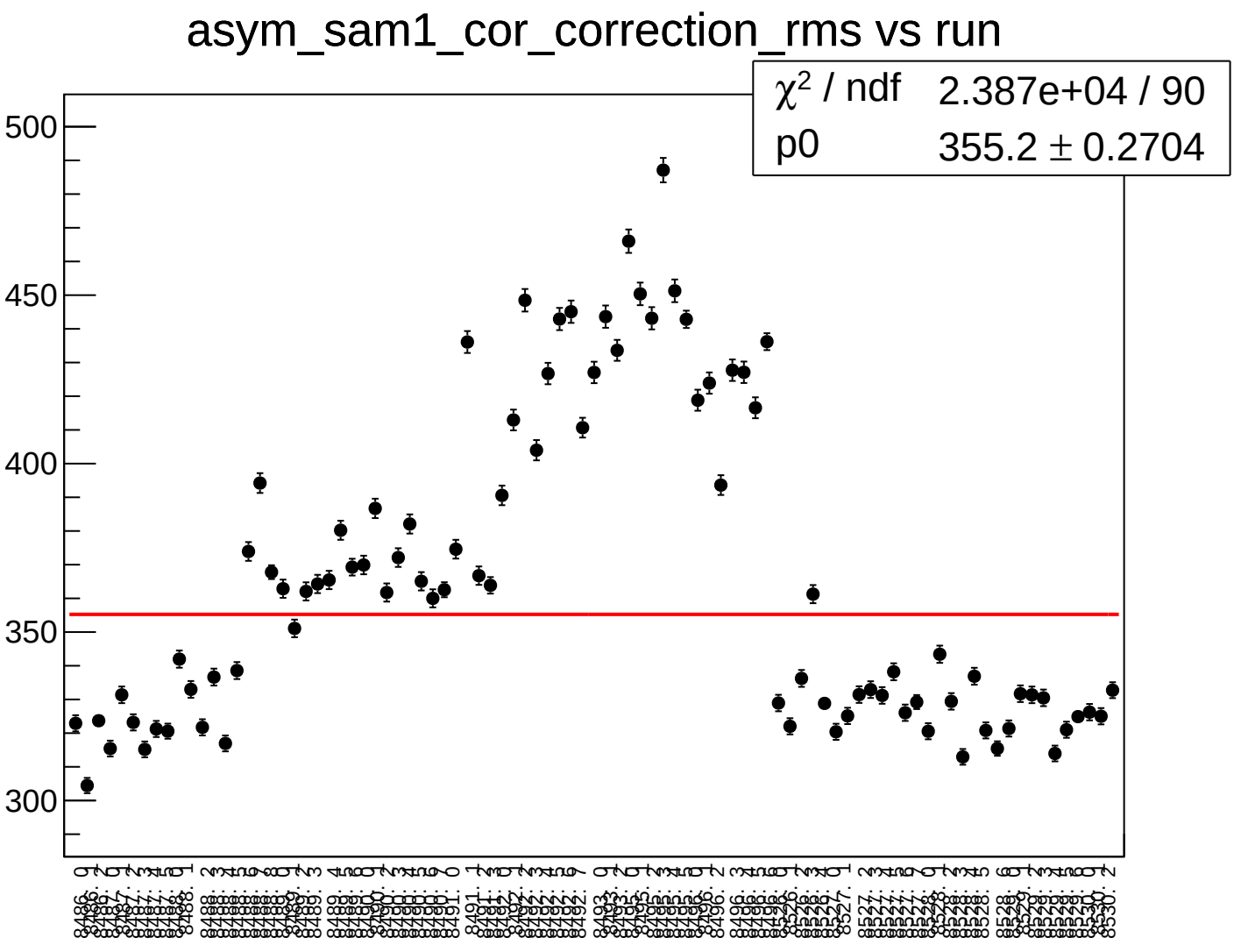
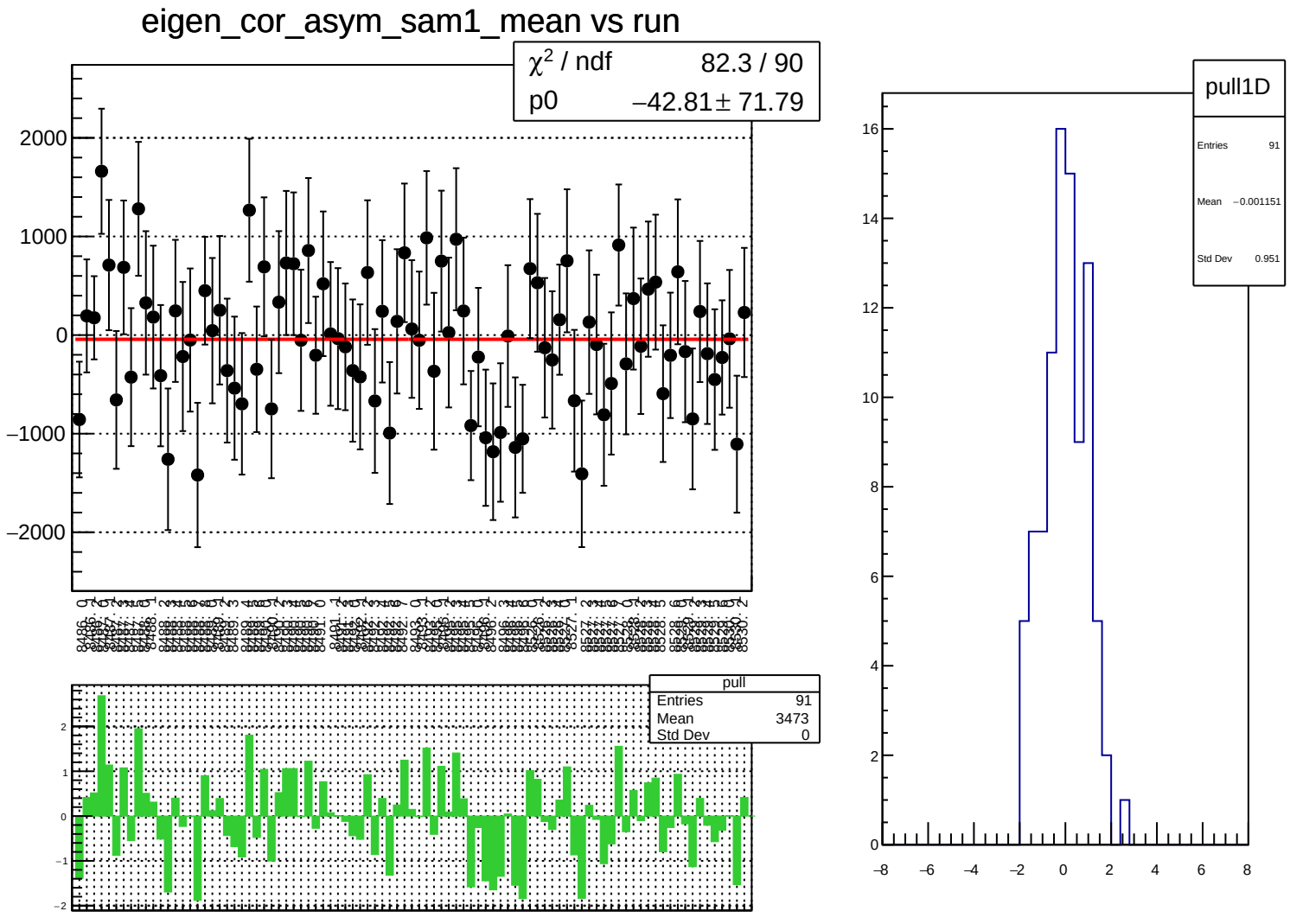
0
2
4
6
8


cor_asym_sam1_rms vs run
χ² / ndf 4818 / 90
p0 67.05 ± 0.05076
75
70
65
60
55


asym_sam1_cor_correction_mean vs run
χ² / ndf 91.73 / 90
p0 848.5 ± 382.5
15000
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 7.145
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 91
Mean 0.03873
Std Dev 1.003
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 2.387e+04 / 90
p0 355.2 ± 0.2704
500
450
400
350
300


eigen_cor_asym_sam1_mean vs run
χ² / ndf 82.3 / 90
p0 −42.81 ± 71.79
2000
1000
0
−1000
−2000
pull
Entries 91
Mean 3473
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.001151
Std Dev 0.951
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
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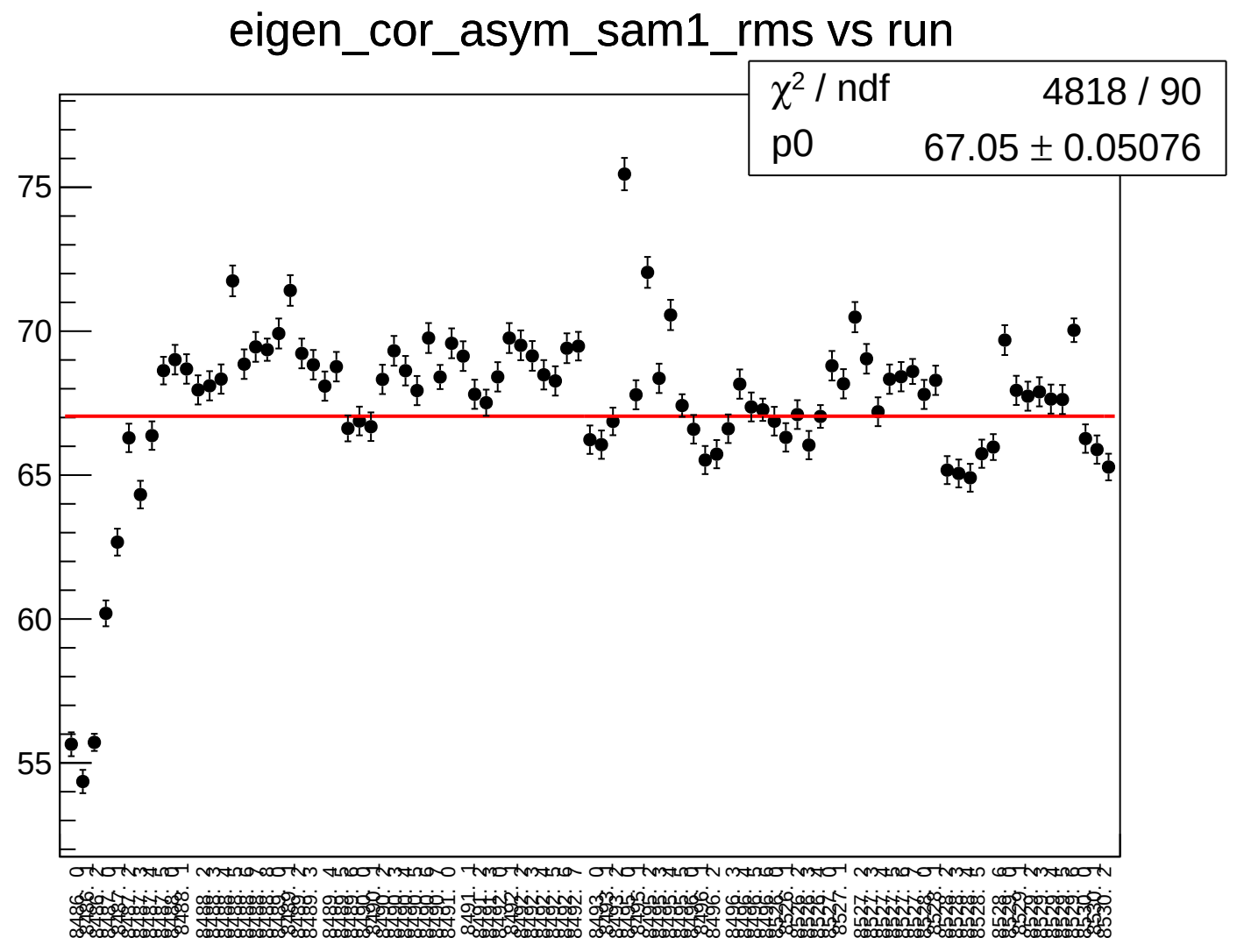
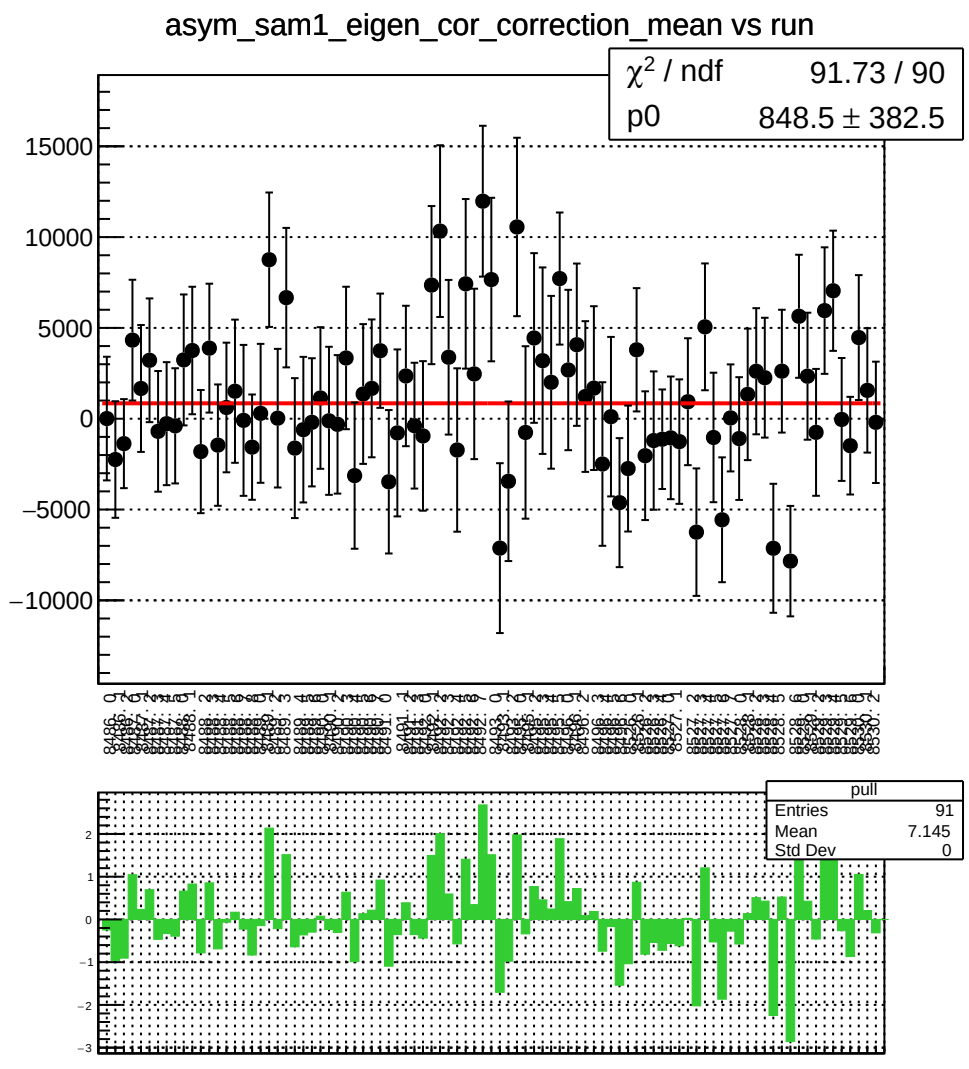
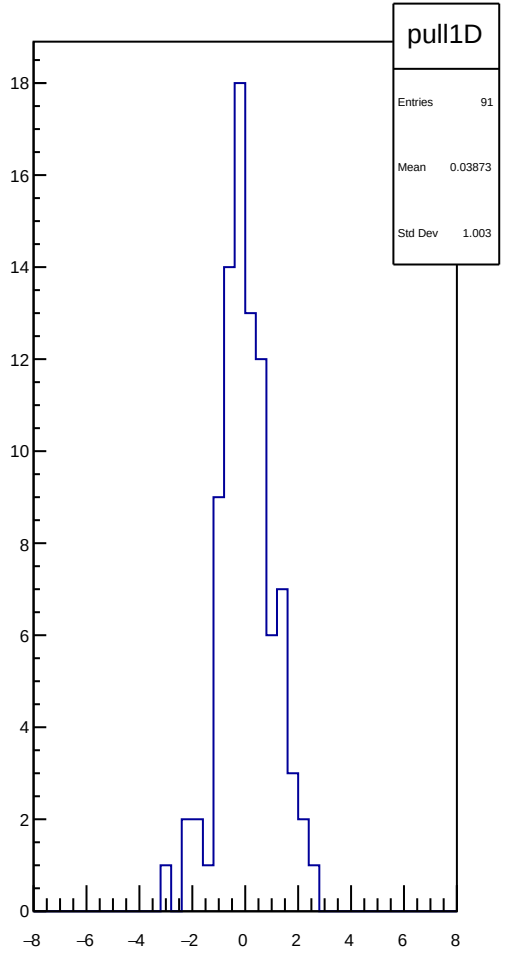
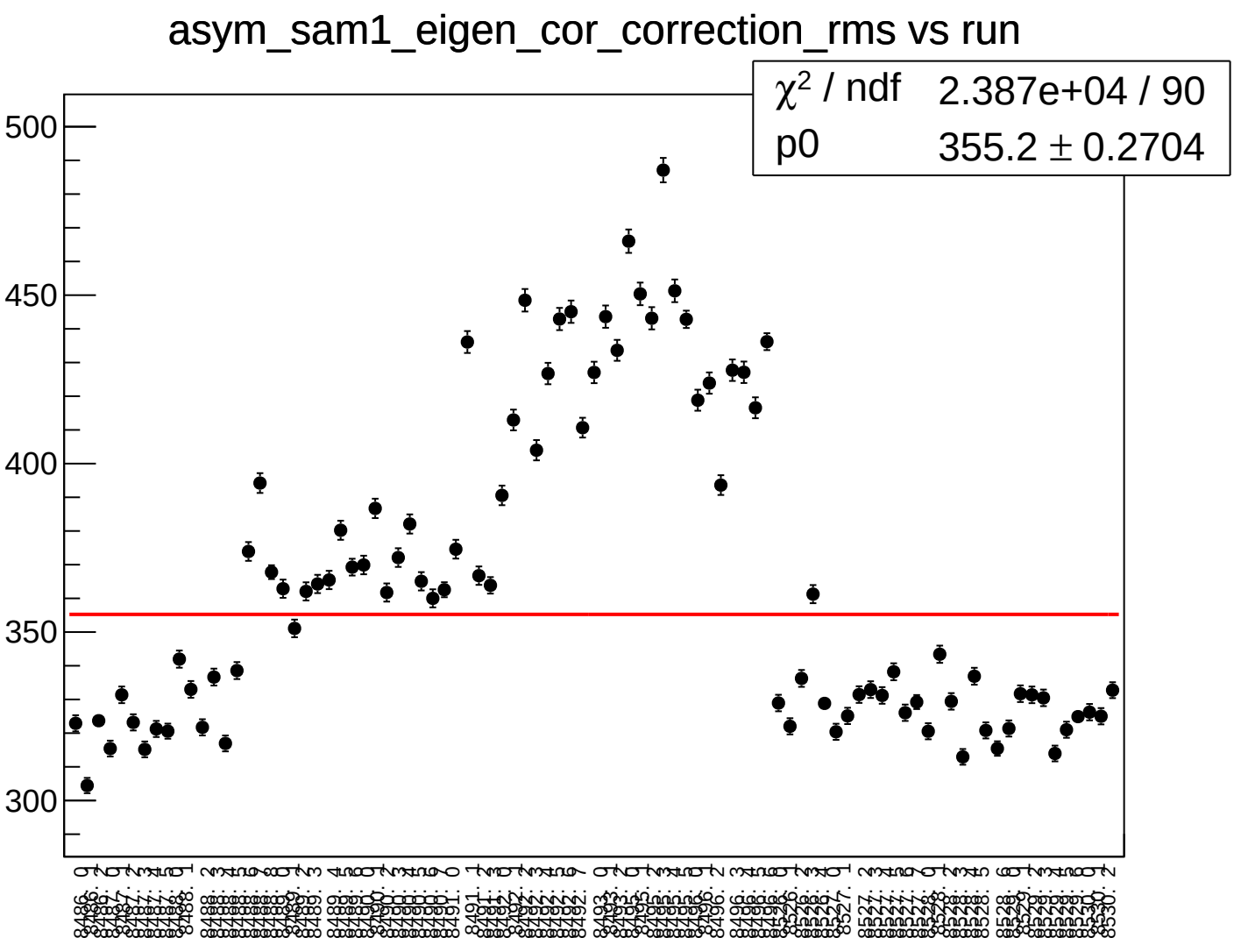
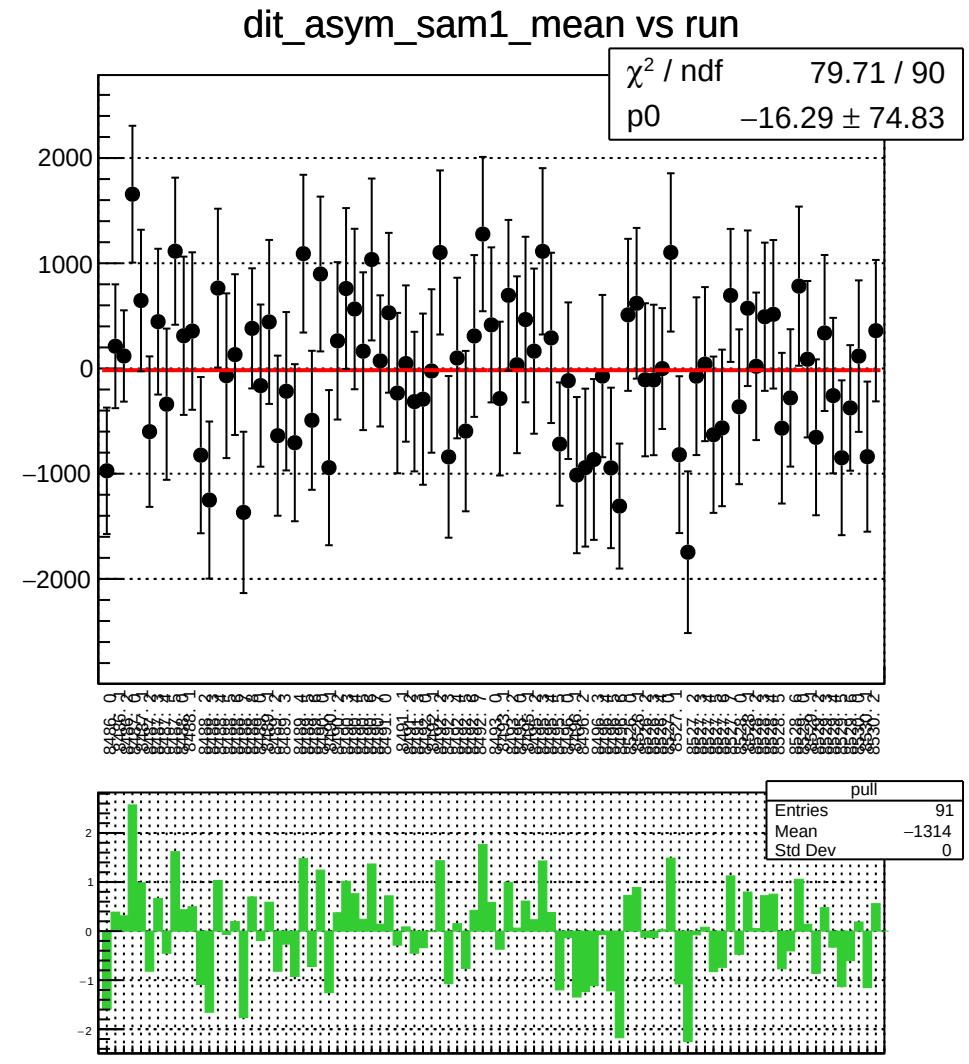
2
4
6
8

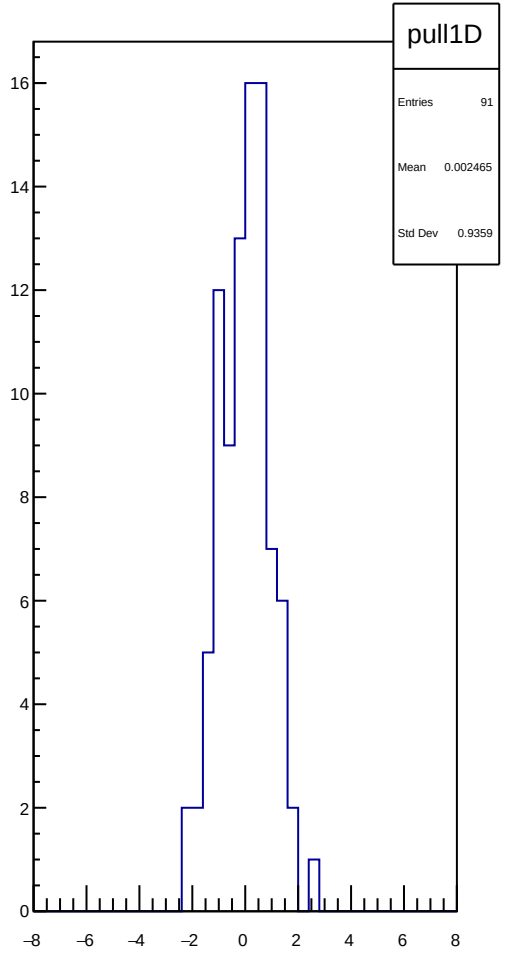

eigen_cor_asym_sam1_rms vs run
χ² / ndf 4818 / 90
p0 67.05 ± 0.05076
75
70
65
60
55

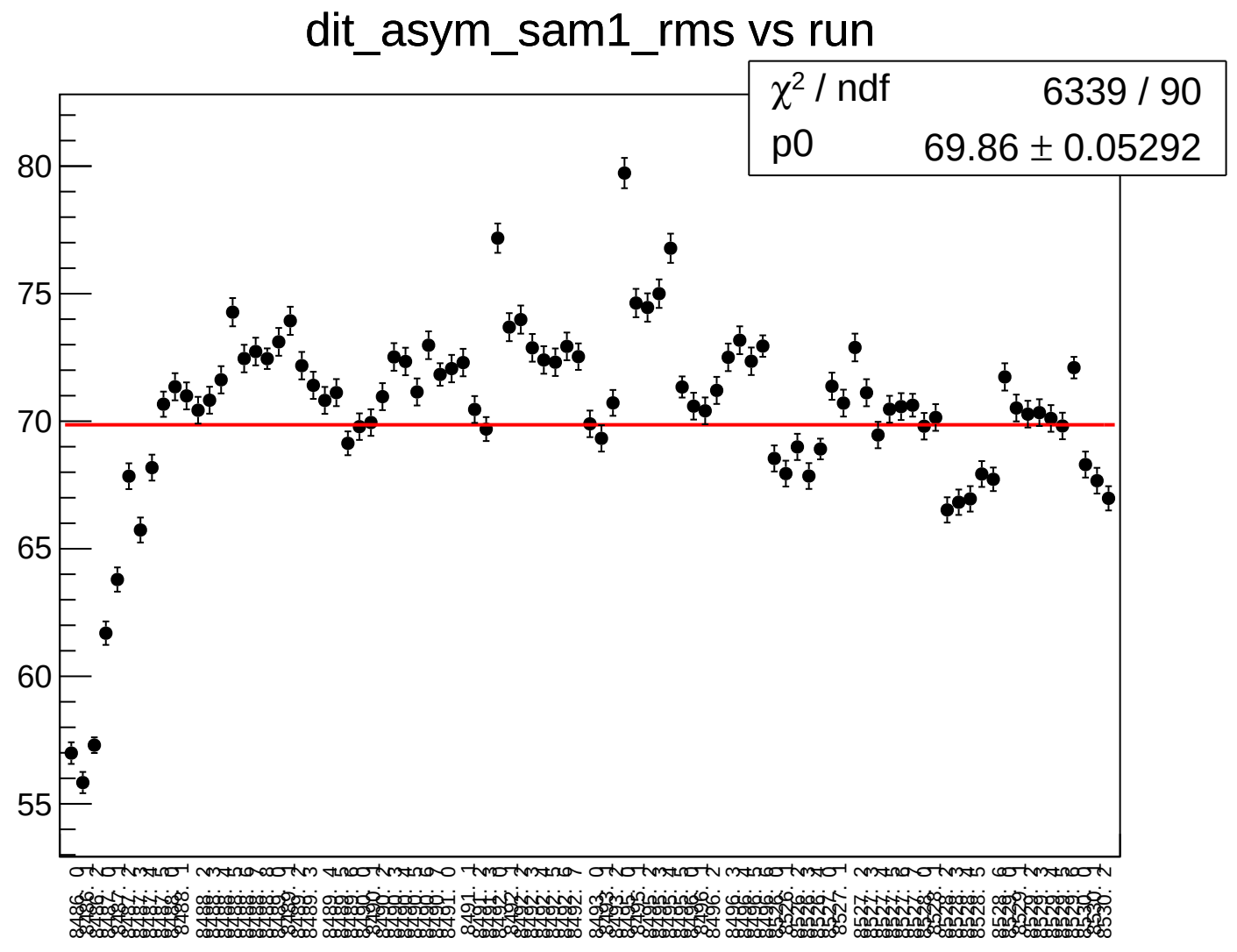

asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 91.73 / 90
p0 848.5 ± 382.5
15000
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 7.145
Std Dev 0
2
1
0
−1
−2
−3

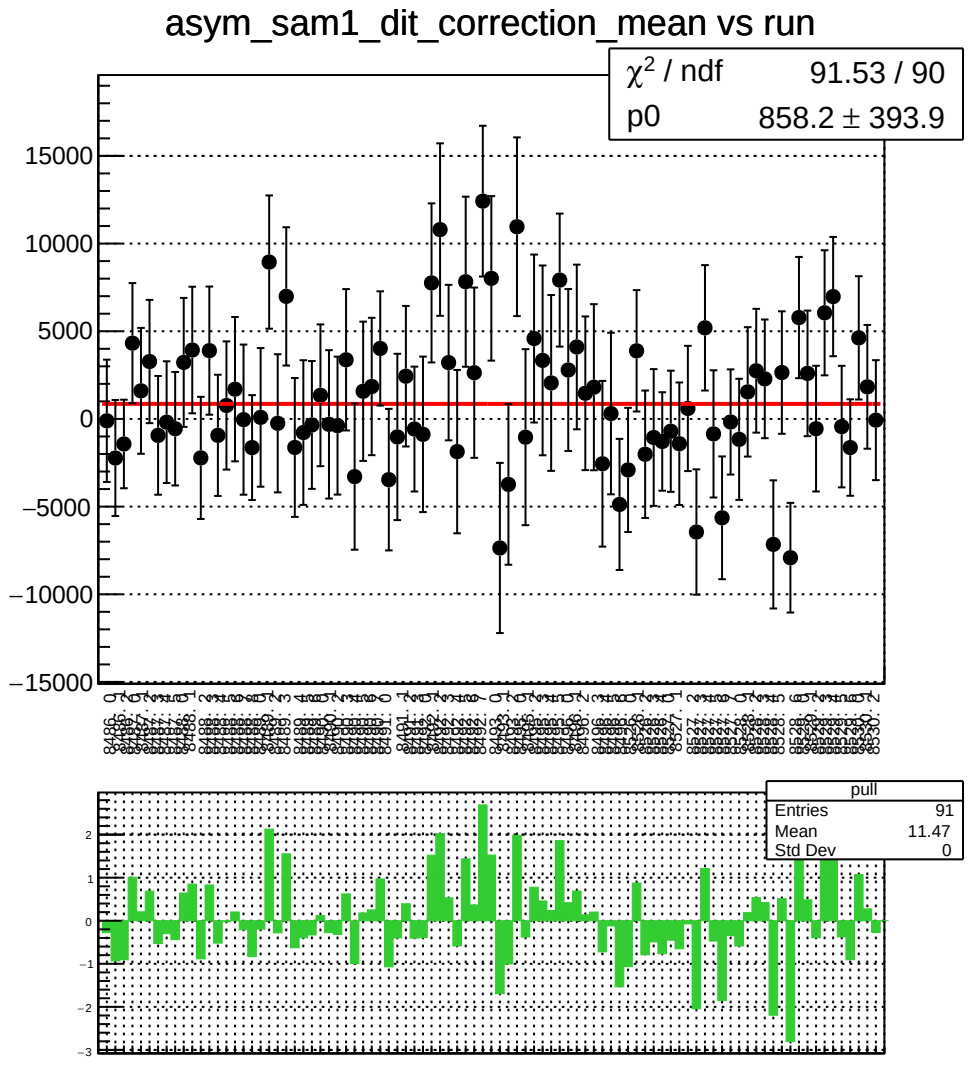

pull1D
Entries 91
Mean 0.03873
Std Dev 1.003
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

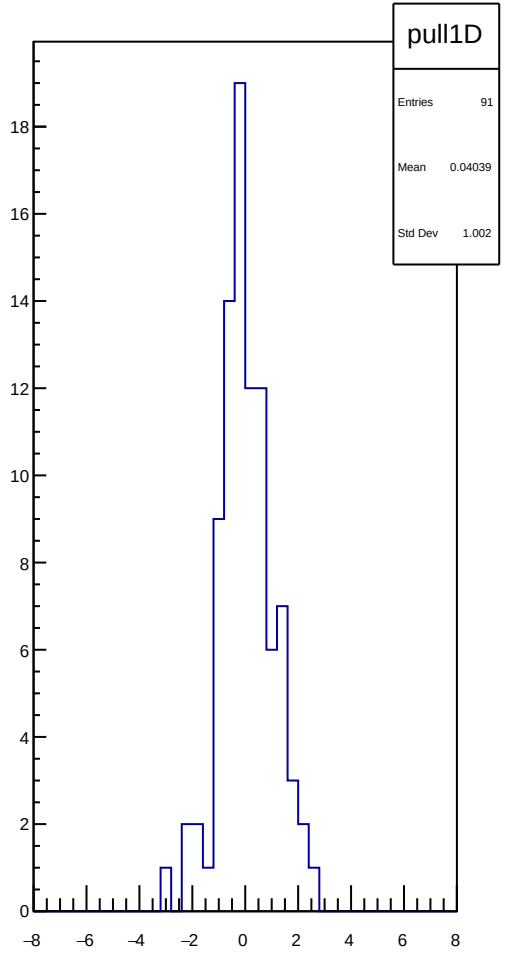

asym_sam1_eigen_cor_correction_rms vs run
χ² / ndf 2.387e+04 / 90
p0 355.2 ± 0.2704
500
450
400
350
300

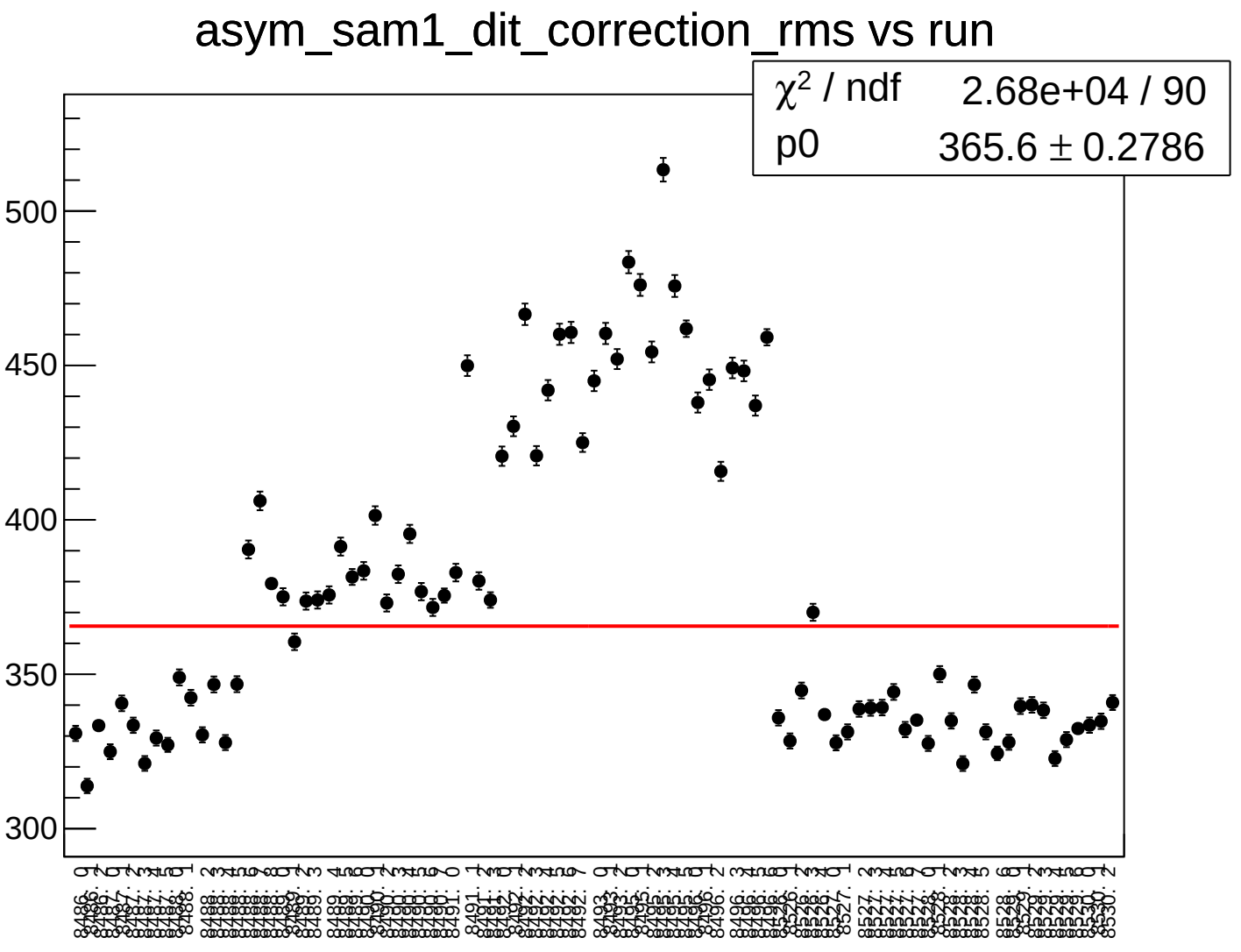

dit_asym_sam1_mean vs run
χ² / ndf 79.71 / 90
p0 −16.29 ± 74.83
2000
1000
0
−1000
−2000
pull
Entries 91
Mean −1314
Std Dev 0
2
1
0
−1
−2

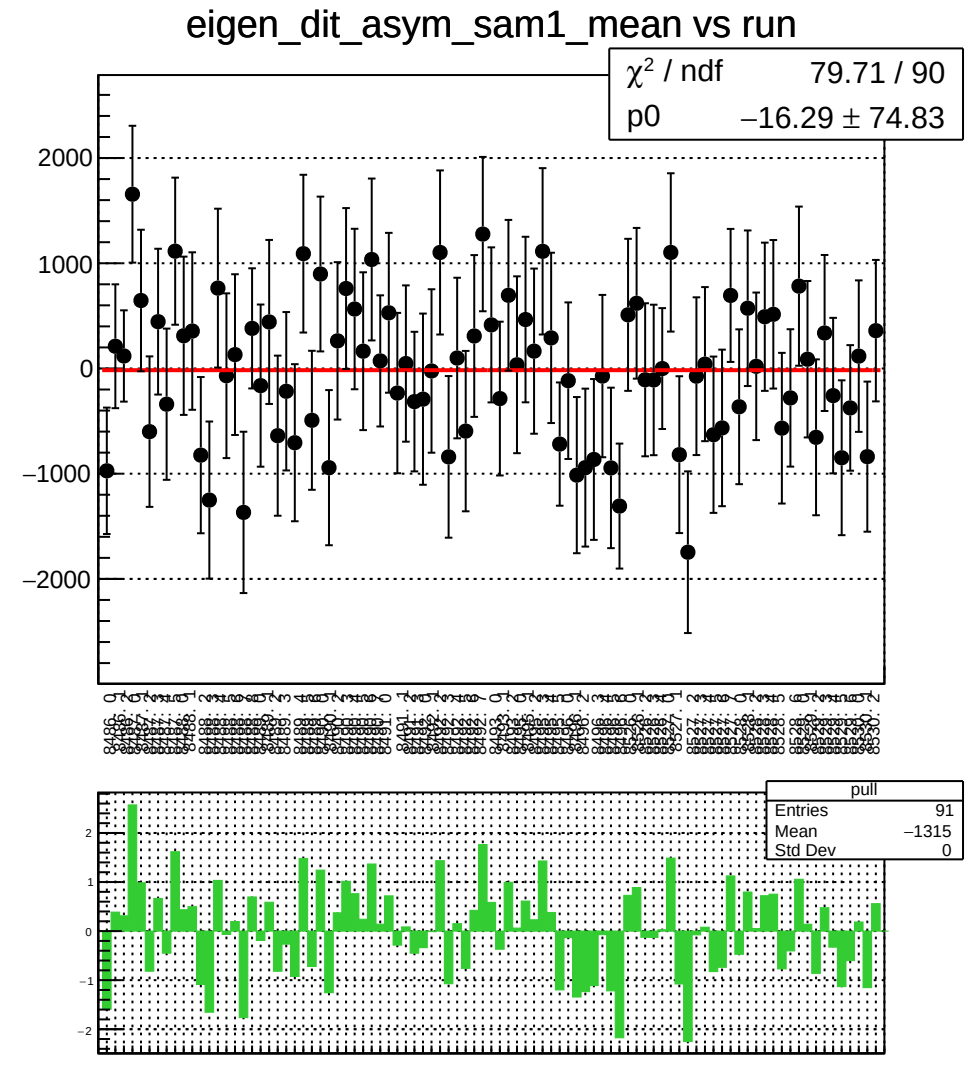

pull1D
Entries 91
Mean 0.002465
Std Dev 0.9359
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

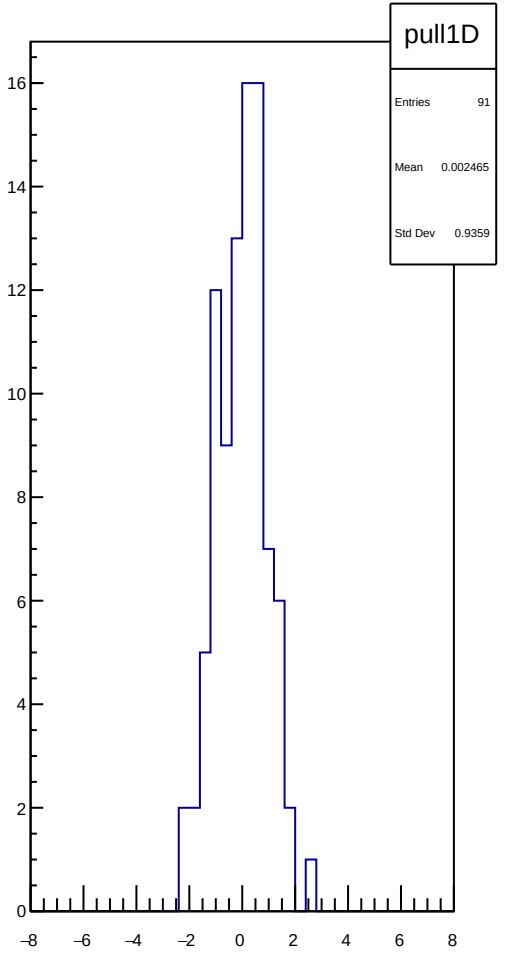

dit_asym_sam1_rms vs run
χ² / ndf 6339 / 90
p0 69.86 ± 0.05292
80
75
70
65
60
55

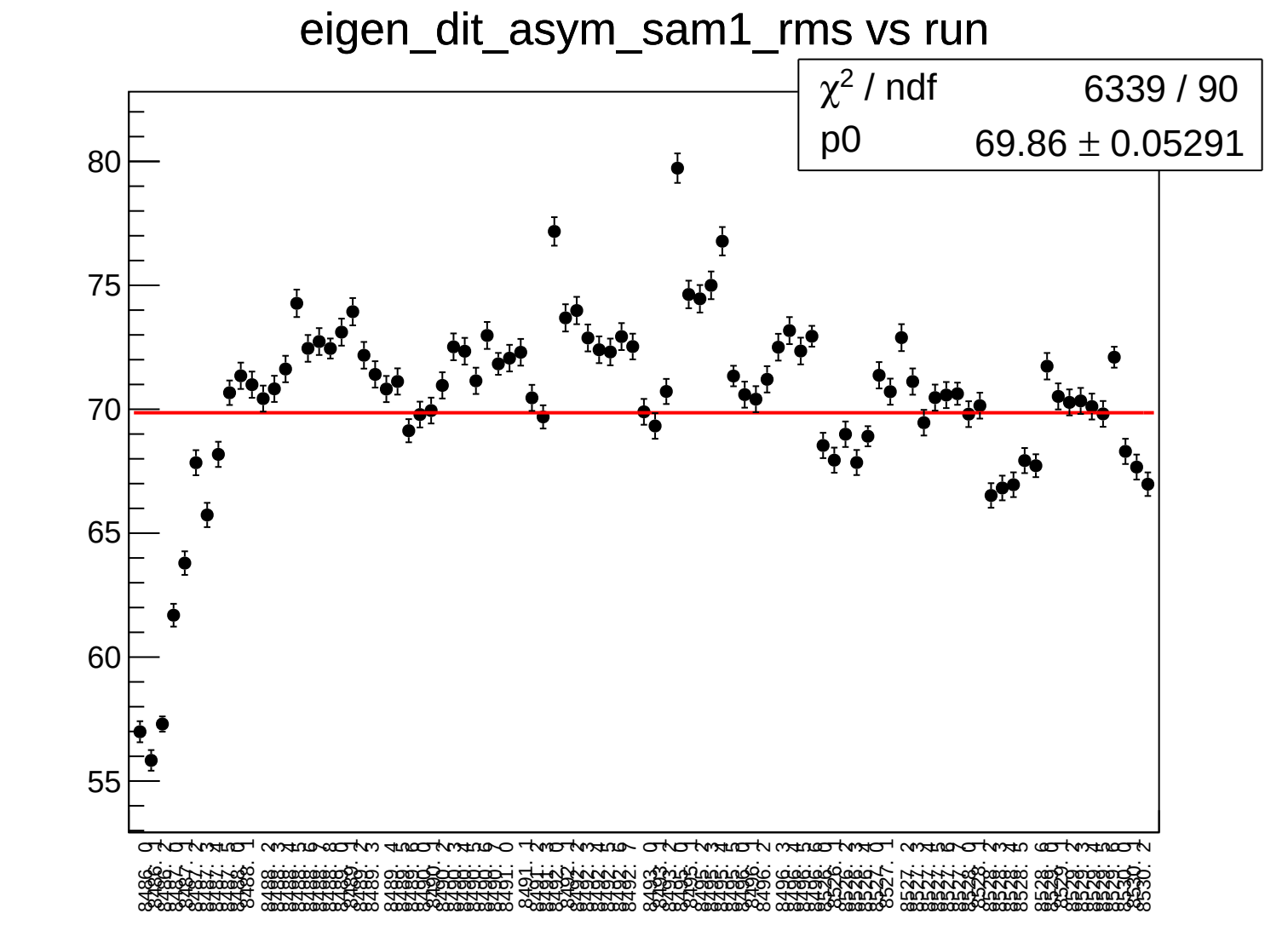

asym_sam1_dit_correction_mean vs run
χ² / ndf 91.53 / 90
p0 858.2 ± 393.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 11.47
Std Dev 0
2
1
0
−1
−2
−3

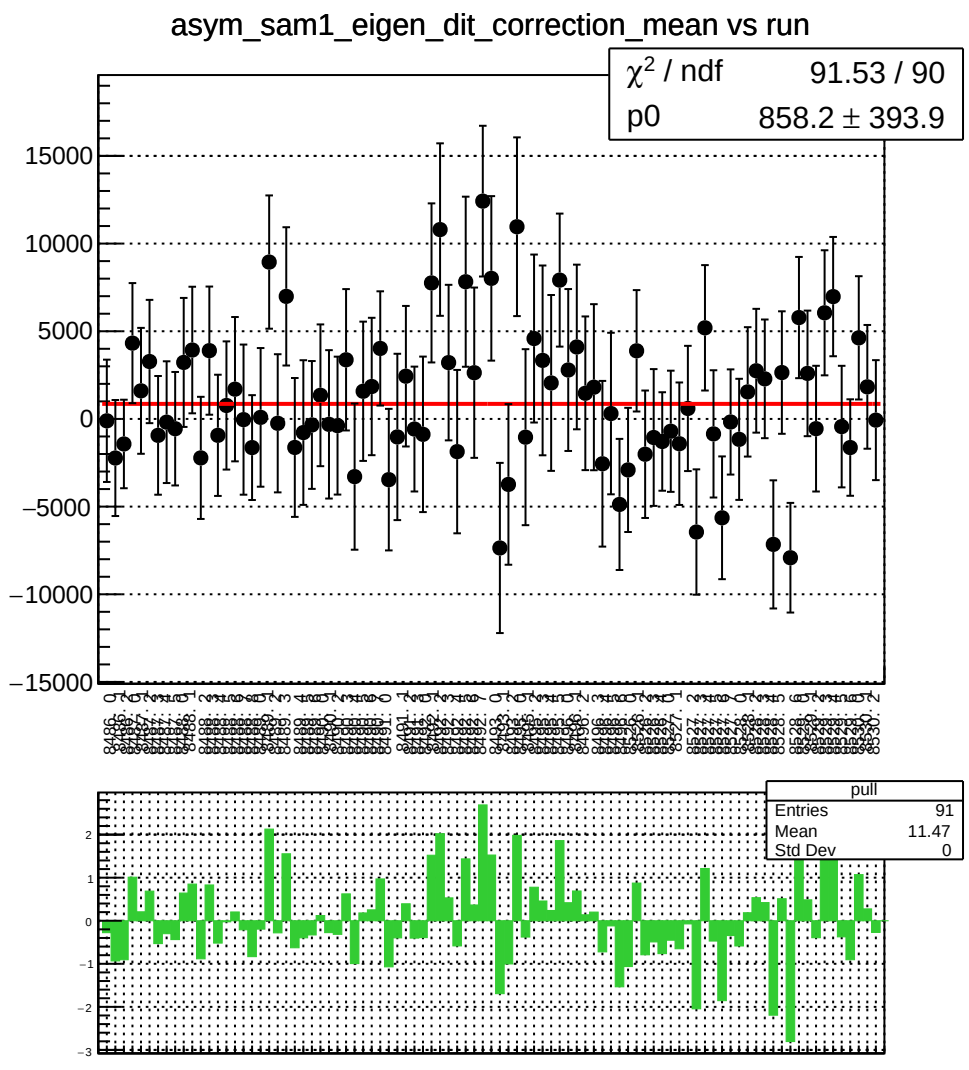

pull1D
Entries 91
Mean 0.04039
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

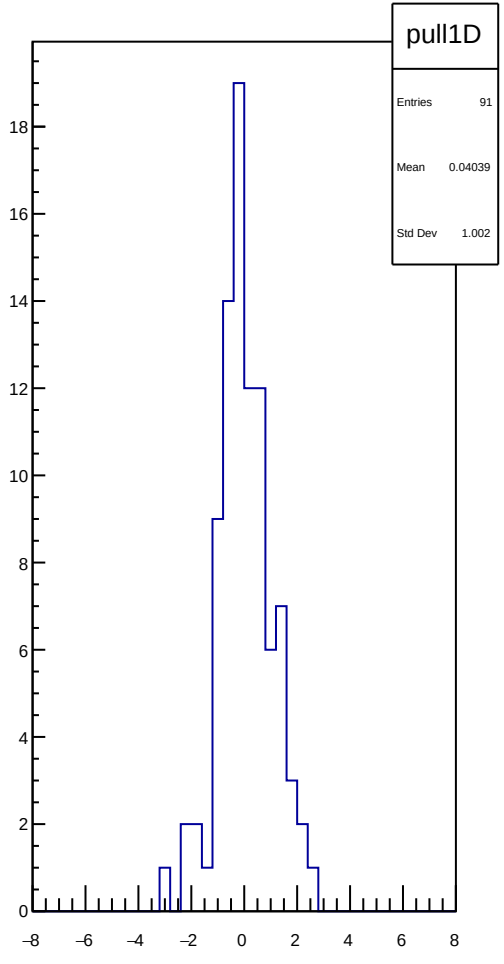

asym_sam1_dit_correction_rms vs run
χ² / ndf 2.68e+04 / 90
p0 365.6 ± 0.2786
500
450
400
350
300


eigen_dit_asym_sam1_mean vs run
χ² / ndf 79.71 / 90
p0 −16.29 ± 74.83
2000
1000
0
−1000
−2000
pull
Entries 91
Mean −1315
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 91
Mean 0.002465
Std Dev 0.9359
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 6339 / 90
p0 69.86 ± 0.05291
80
75
70
65
60
55


asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 91.53 / 90
p0 858.2 ± 393.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 11.47
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 91
Mean 0.04039
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
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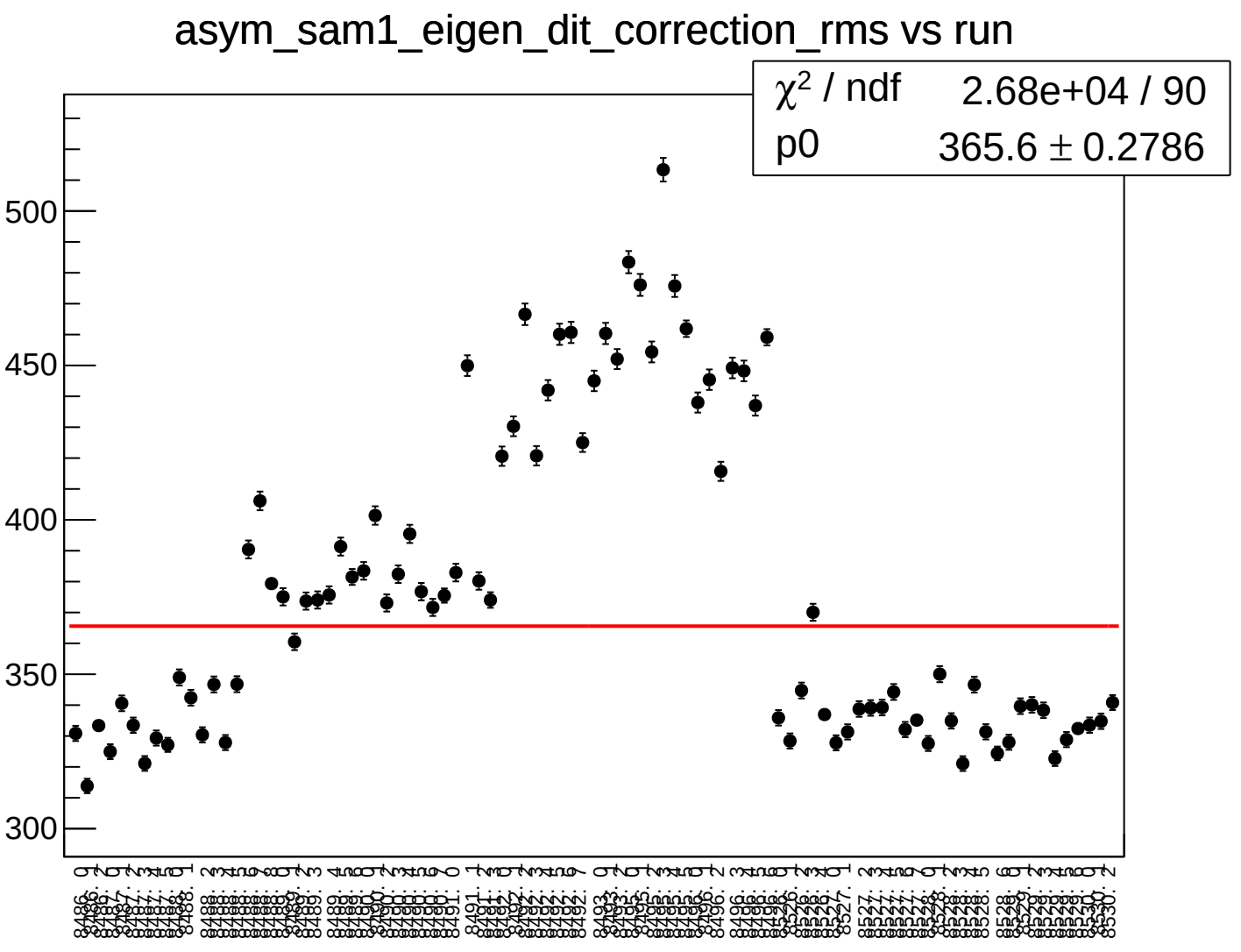
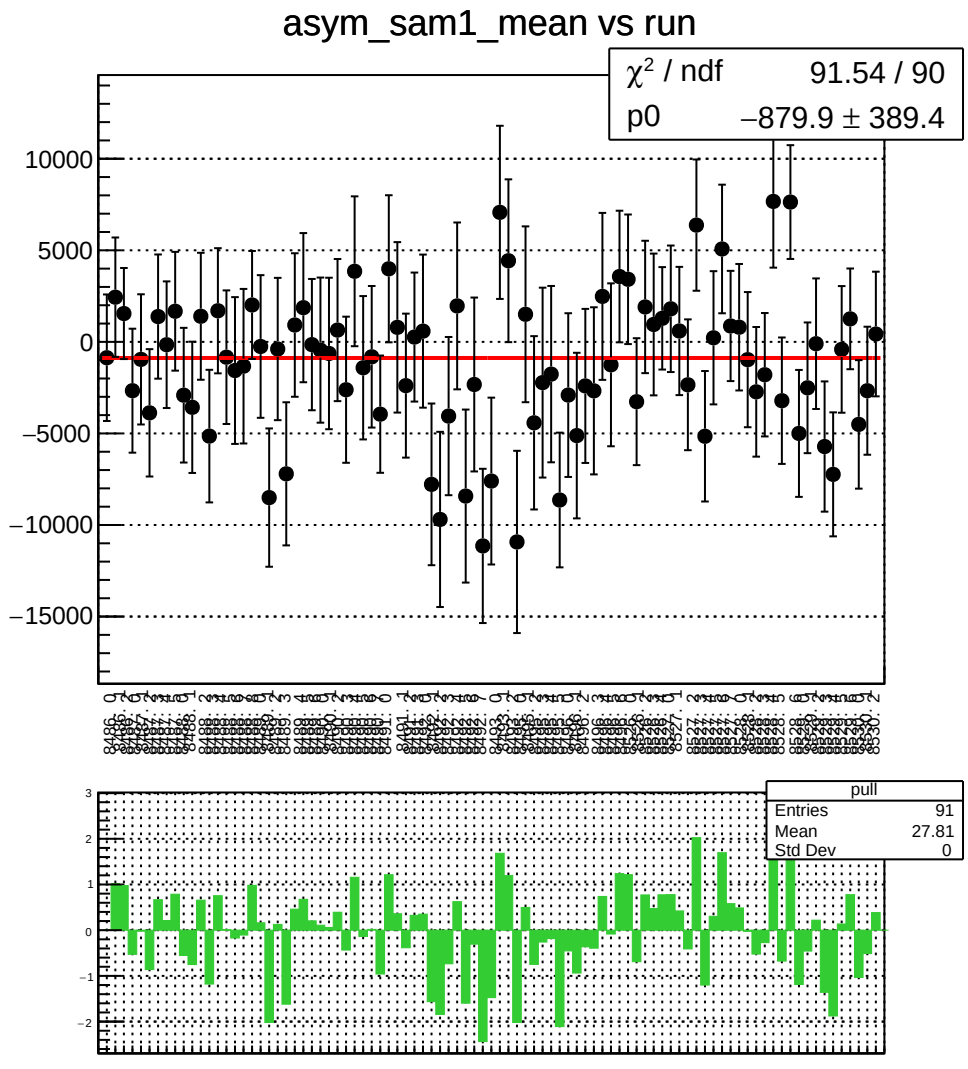
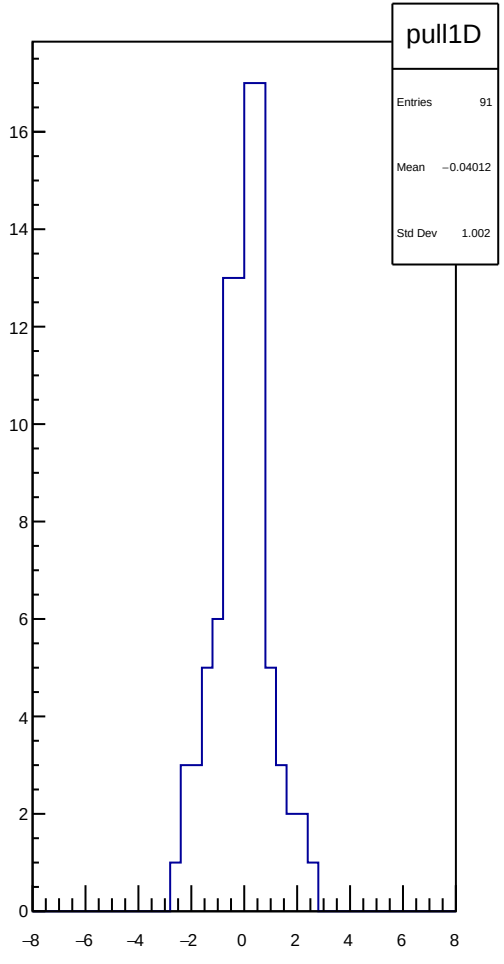
2
4
6
8


asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 2.68e+04 / 90
p0 365.6 ± 0.2786
500
450
400
350
300


asym_sam1_mean vs run
χ² / ndf 91.54 / 90
p0 −879.9 ± 389.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 27.81
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 91
Mean −0.04012
Std Dev 1.002
16
14
12
10
8
6
4
2
0
−8
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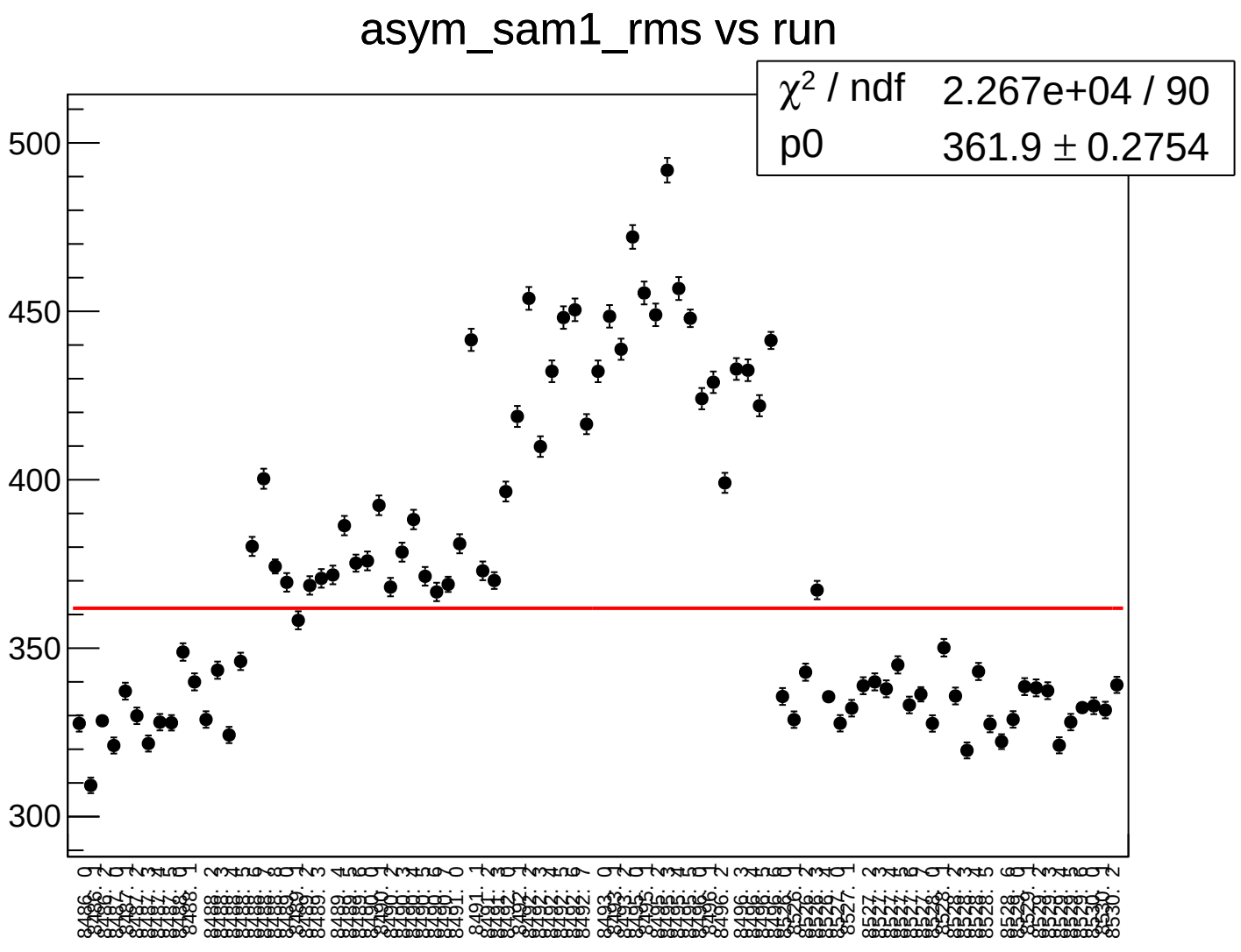
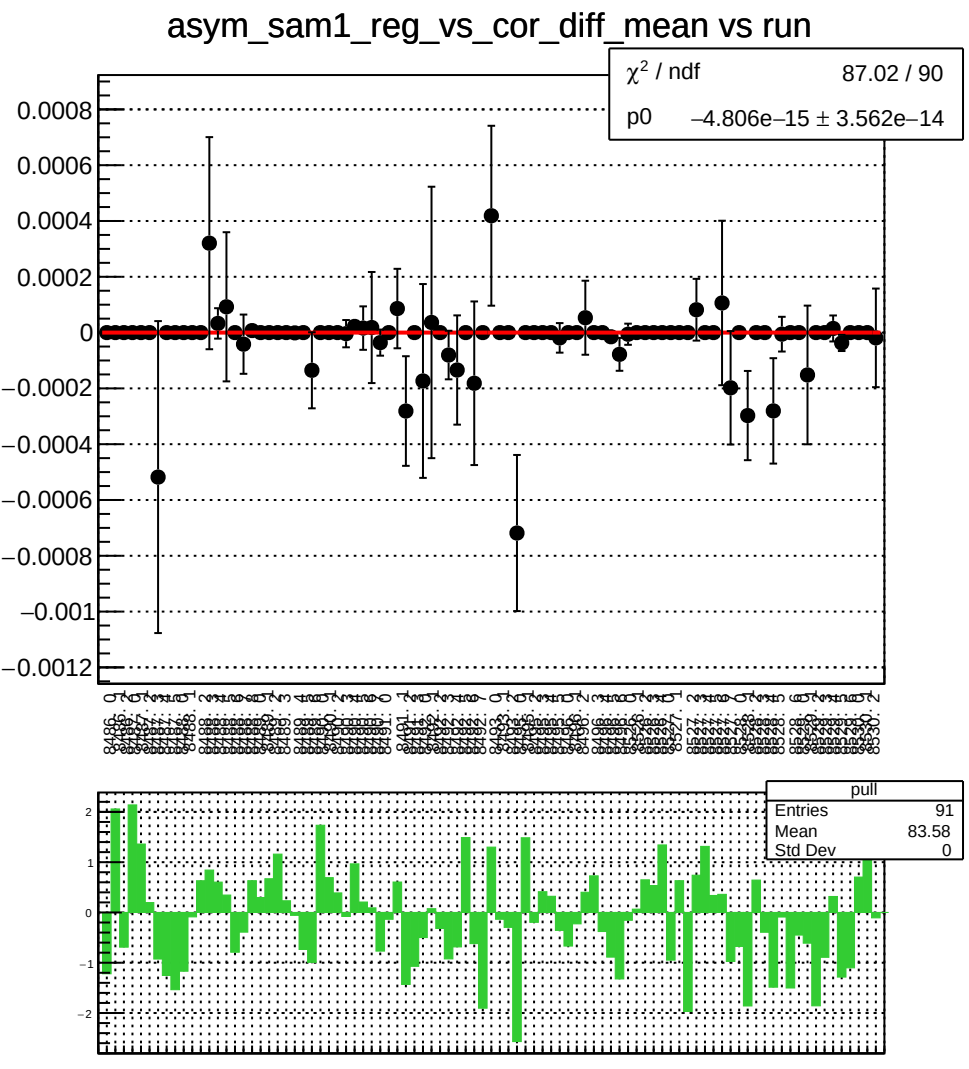
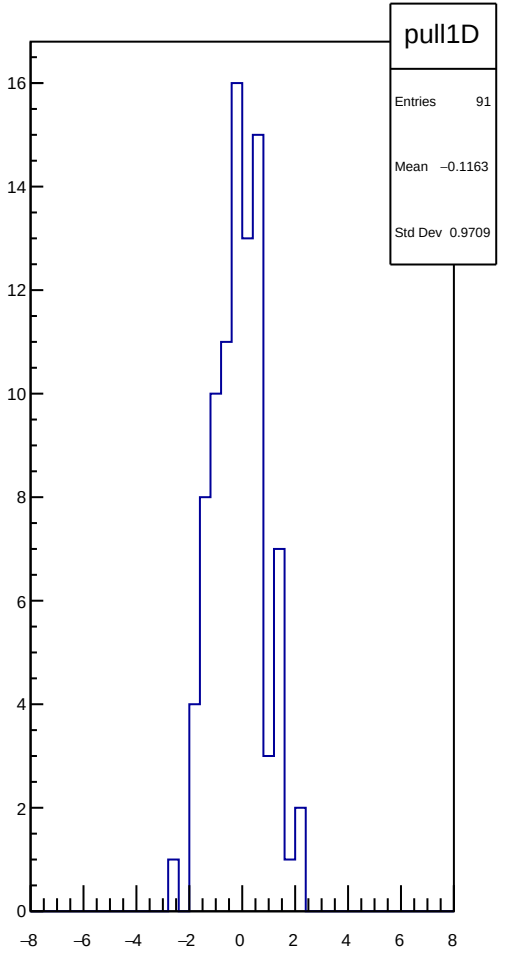
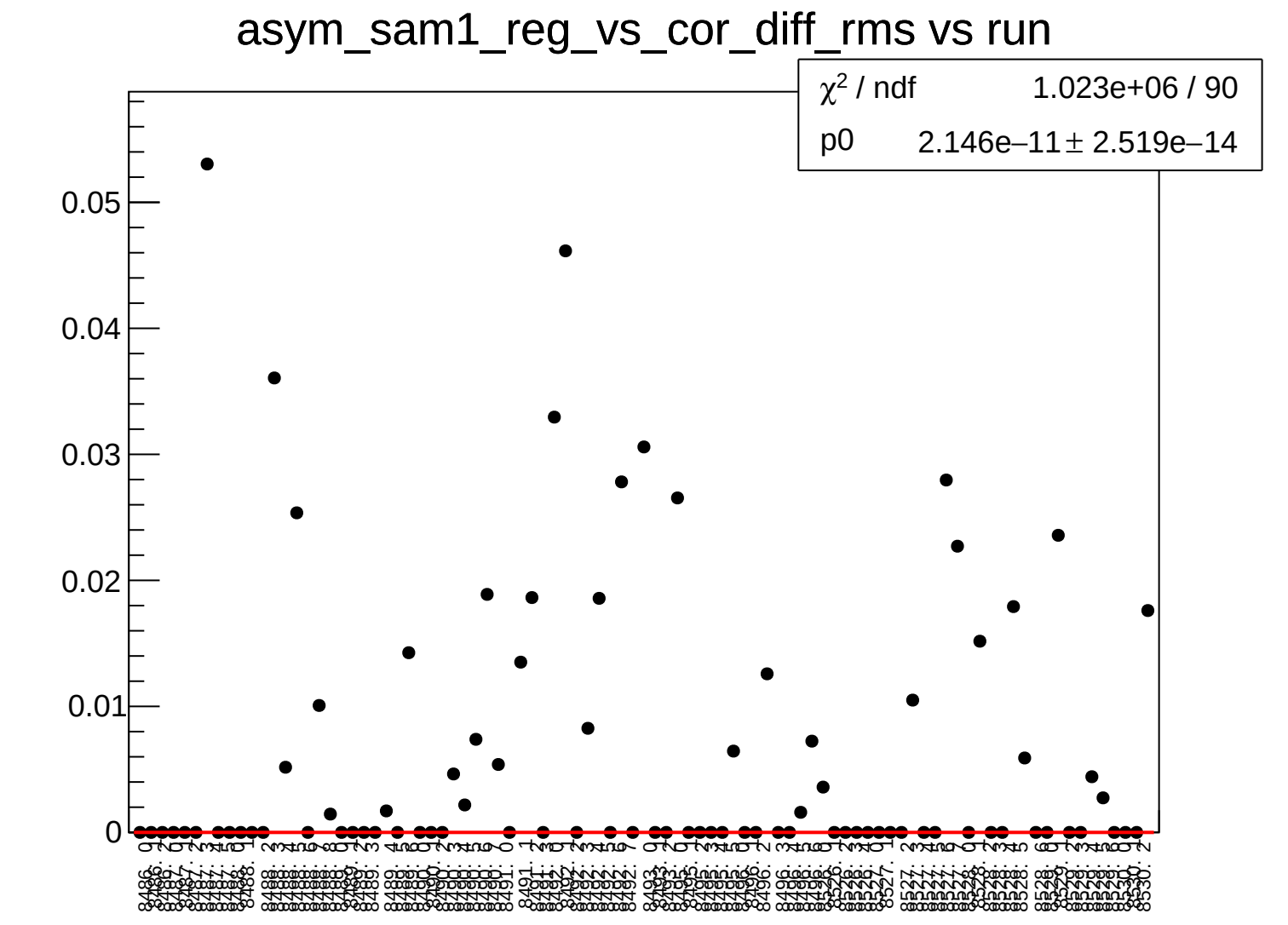
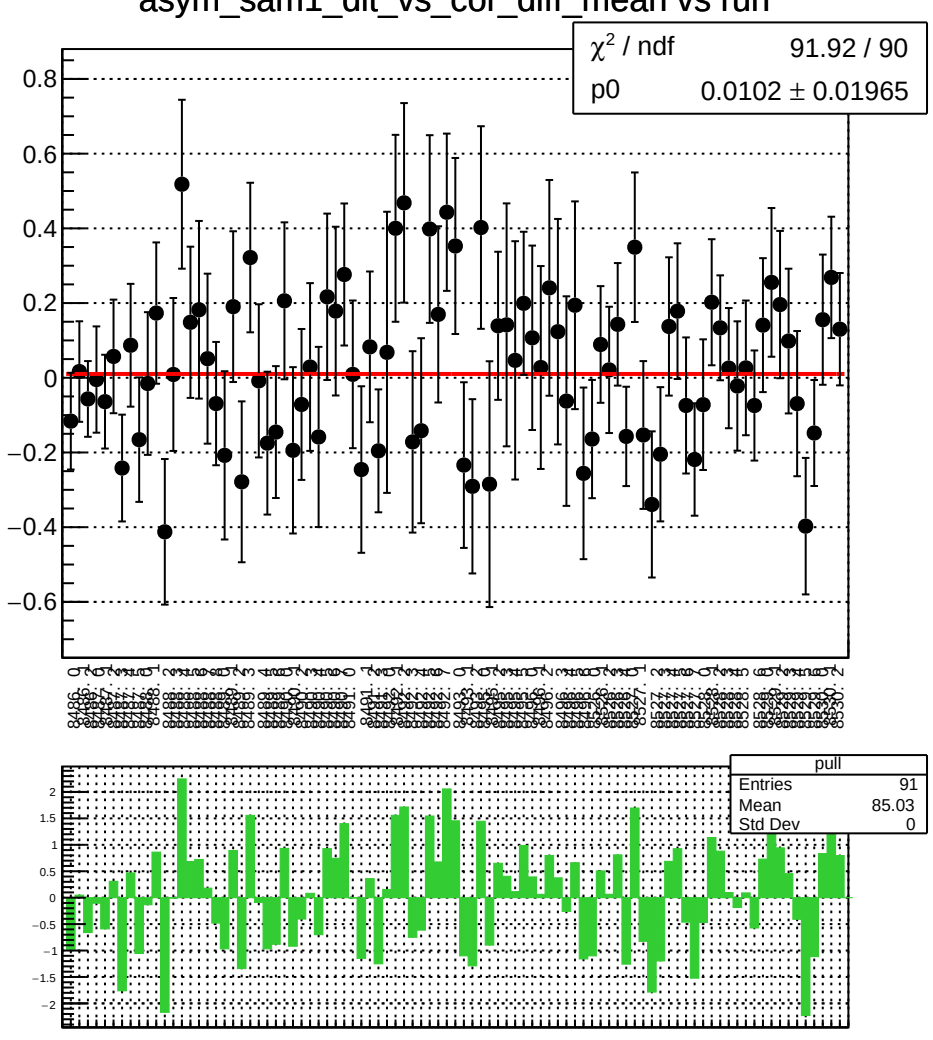
2
4
6
8

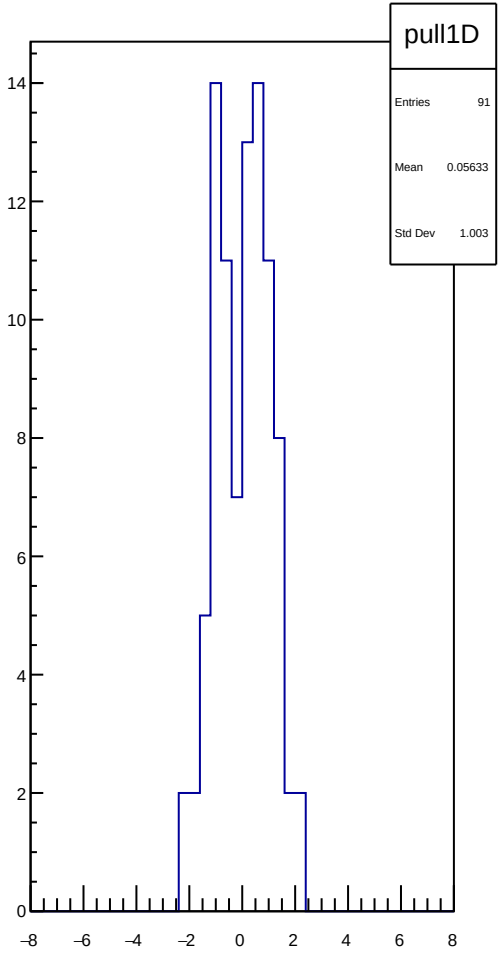

asym_sam1_rms vs run
χ² / ndf 2.267e+04 / 90
p0 361.9 ± 0.2754
500
450
400
350
300

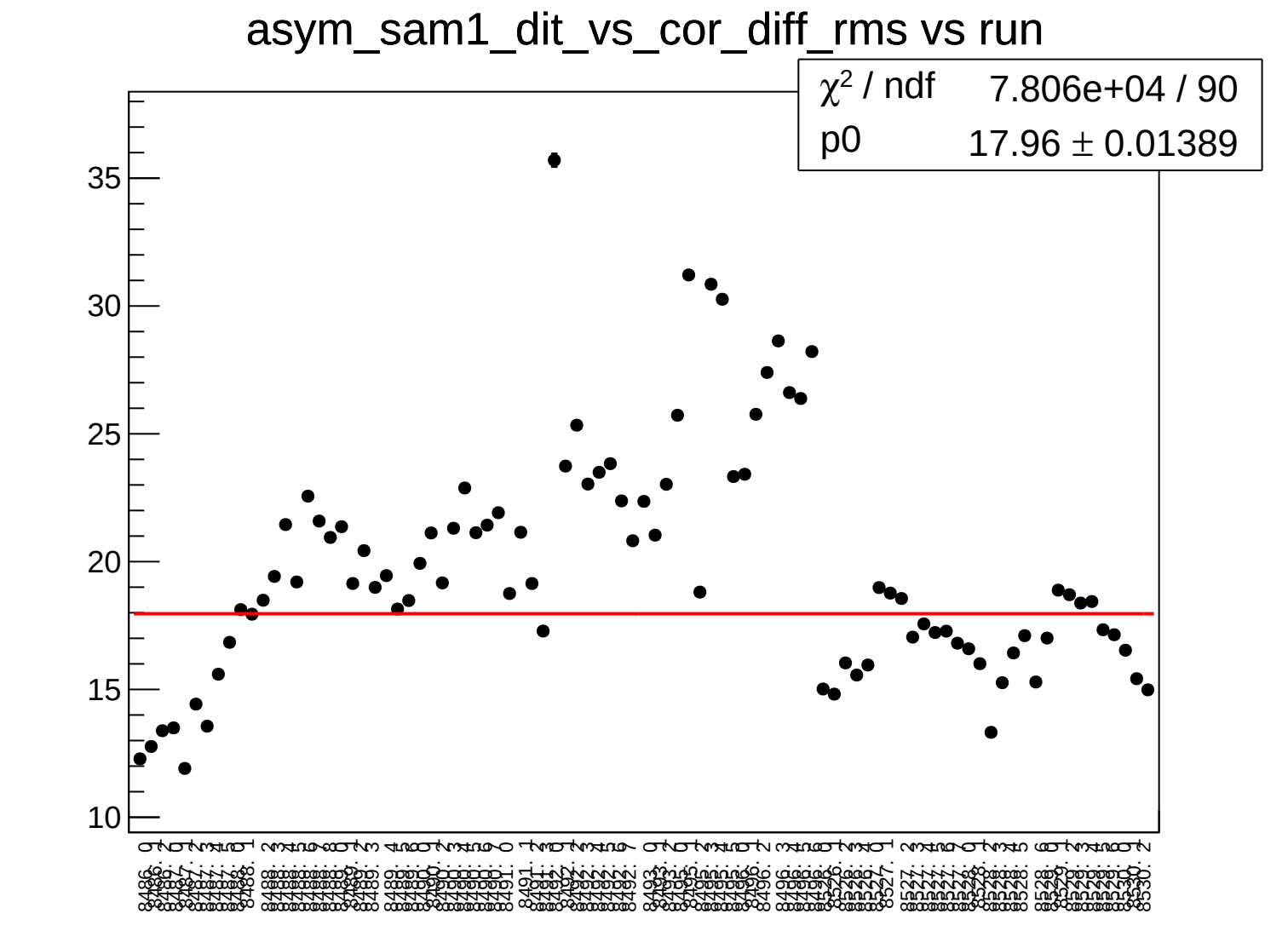

asym_sam1_reg_vs_cor_diff_mean vs run
χ² / ndf 87.02 / 90
p0 −4.806e−15 ± 3.562e−14
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
pull
Entries 91
Mean 83.58
Std Dev 0

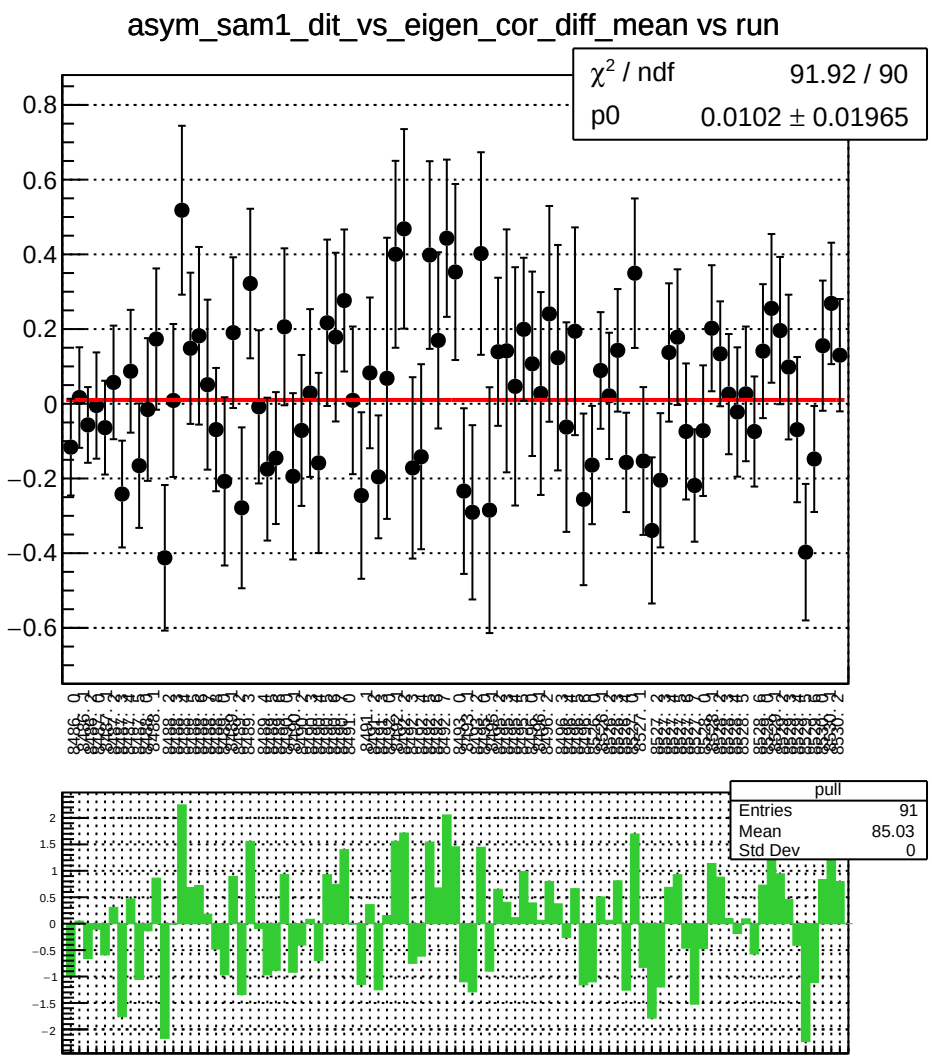

pull1D
Entries 91
Mean −0.1163
Std Dev 0.9709
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

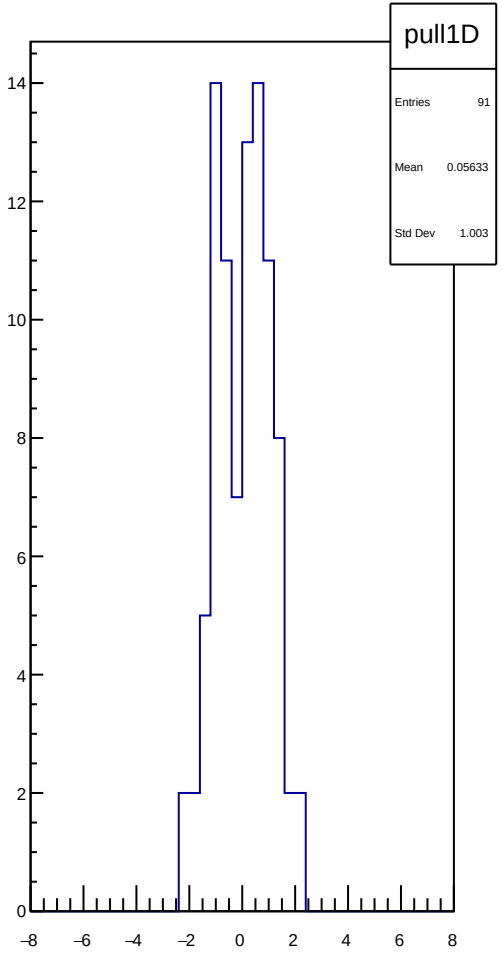

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.023e+06 / 90
p0 2.146e−11 ± 2.519e−14
0.05
0.04
0.03
0.02
0.01
0

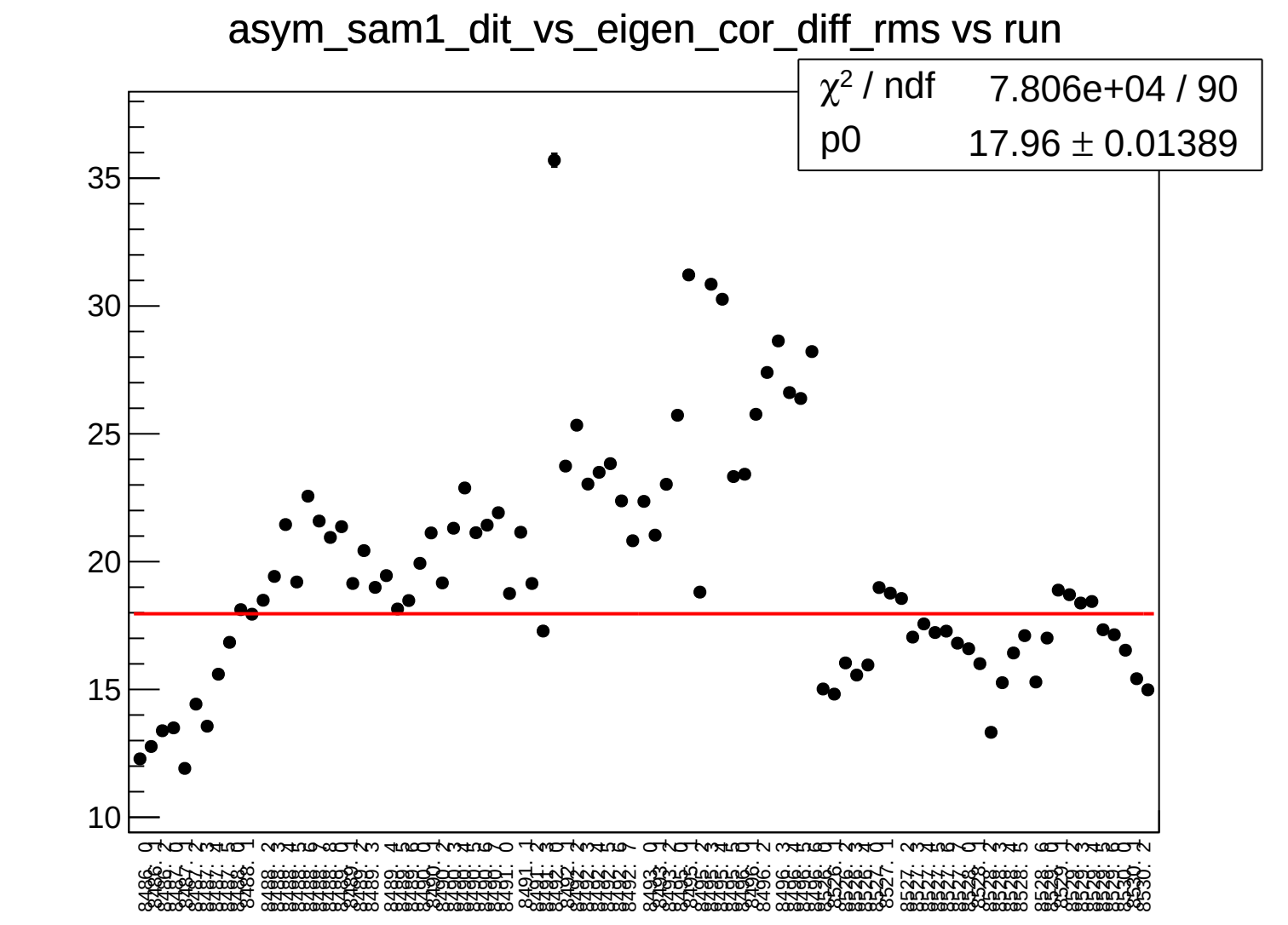

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 91.92 / 90
p0 0.0102 ± 0.01965
pull
Entries 91
Mean 85.03
Std Dev 0

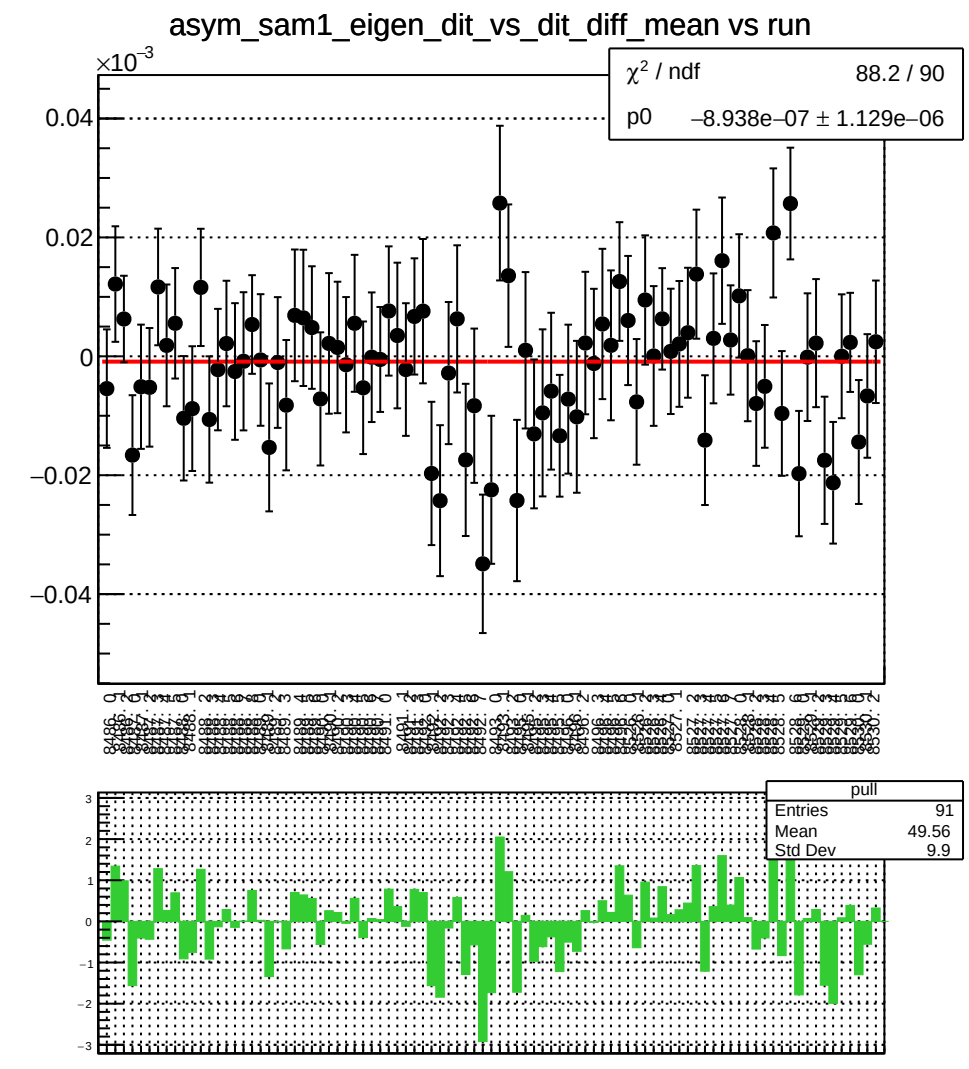

pull1D
Entries 91
Mean 0.05633
Std Dev 1.003

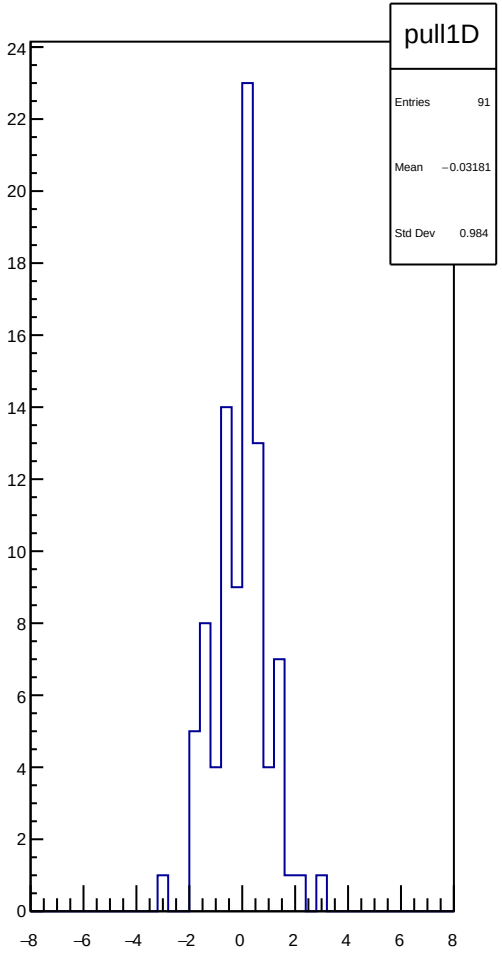

asym_sam1_dit_vs_cor_diff_rms vs run
χ² / ndf 7.806e+04 / 90
p0 17.96 ± 0.01389
35
30
25
20
15
10

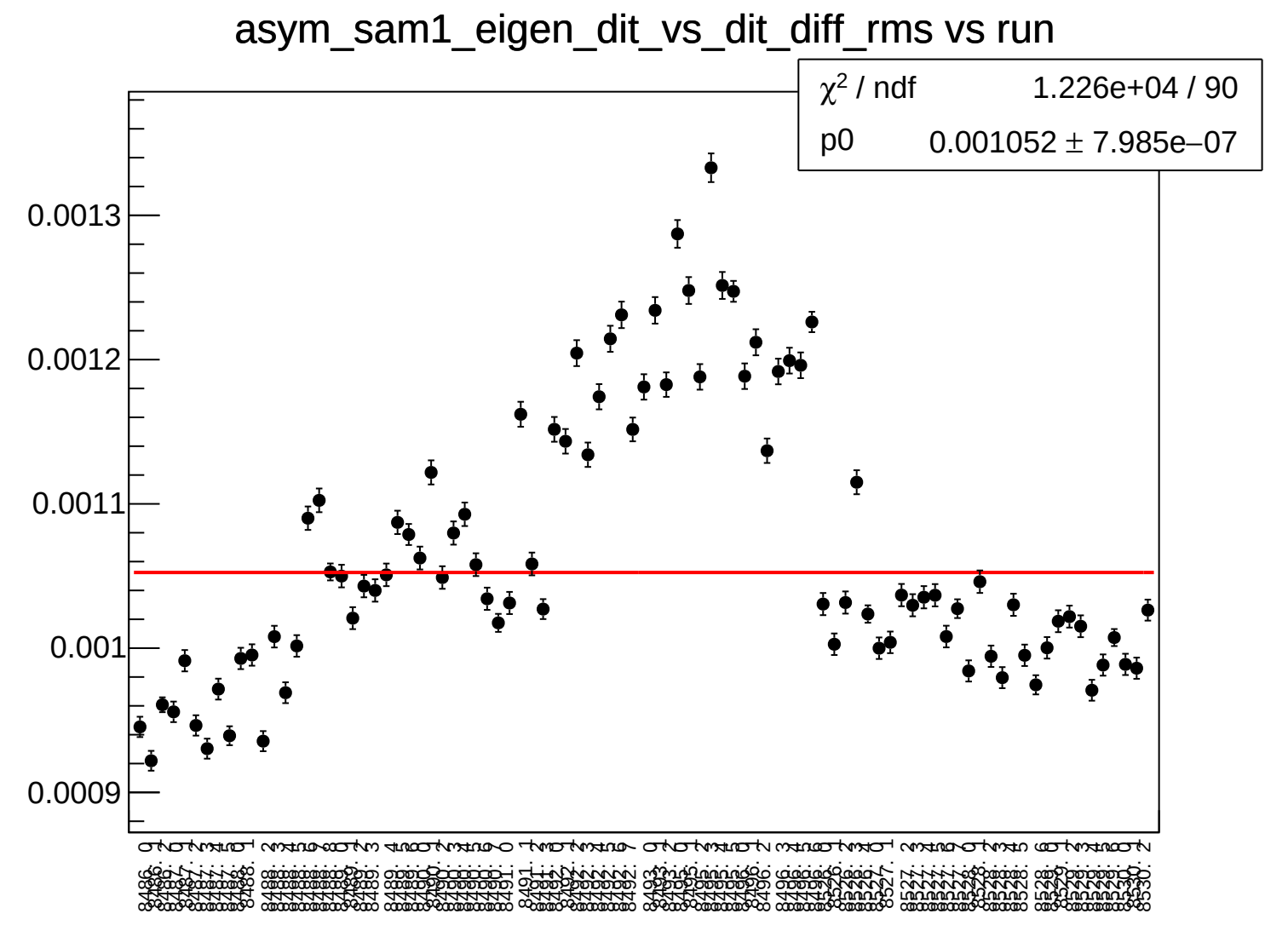

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.92 / 90
p0 0.0102 ± 0.01965
pull
Entries 91
Mean 85.03
Std Dev 0

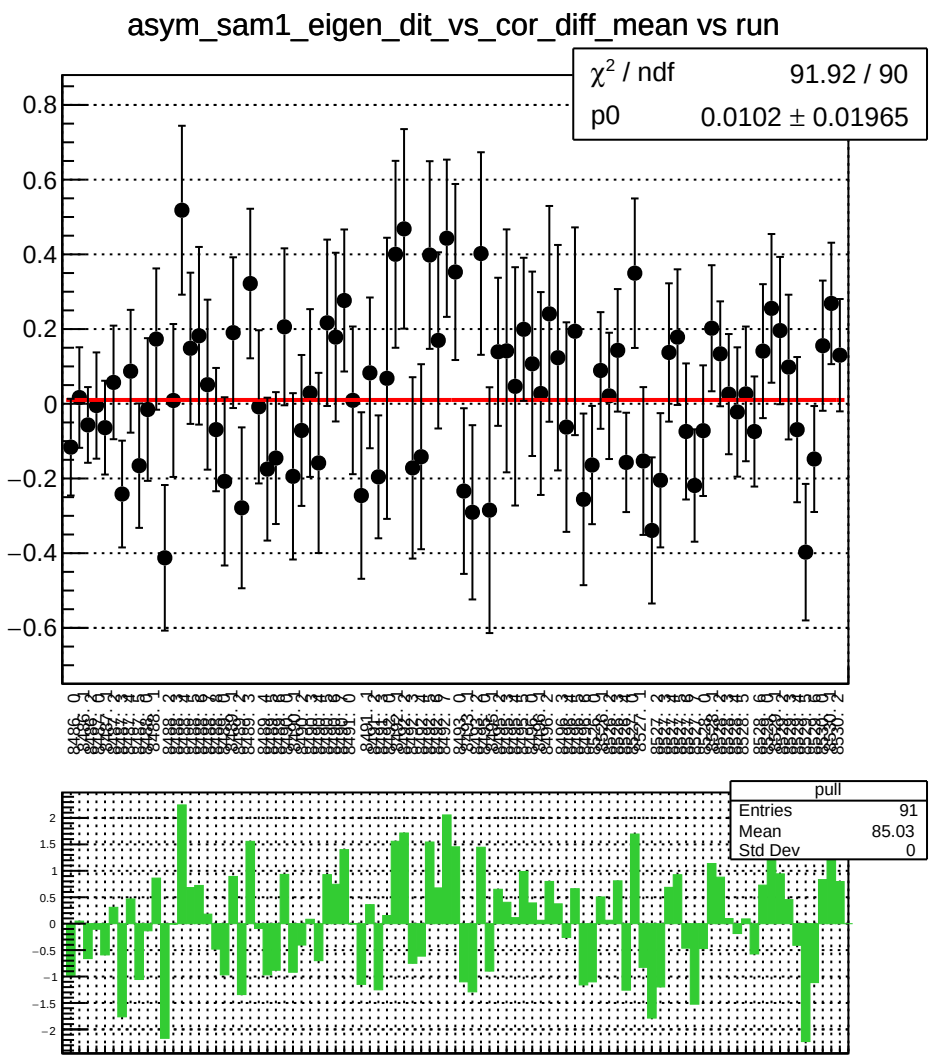

pull1D
Entries 91
Mean 0.05633
Std Dev 1.003

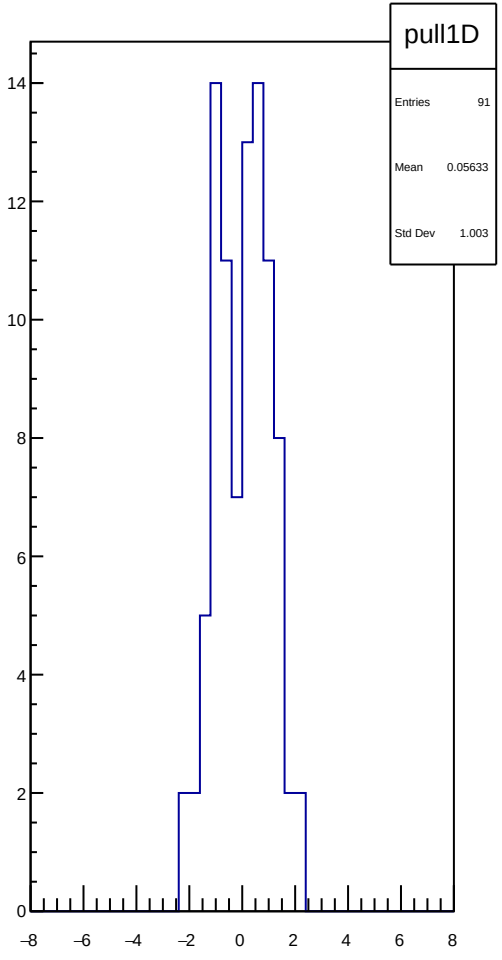

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.806e+04 / 90
p0 17.96 ± 0.01389
35
30
25
20
15
10

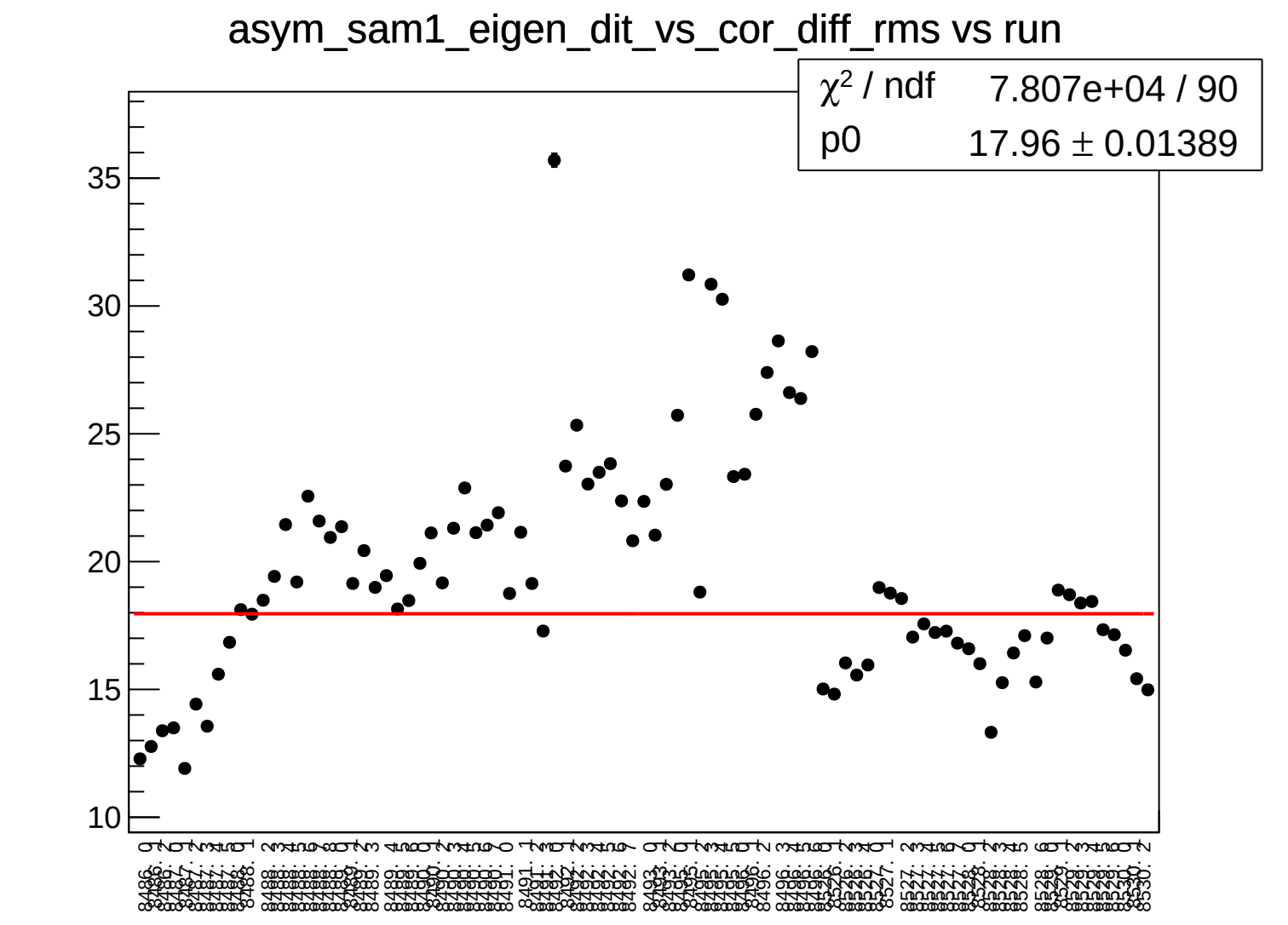

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.2 / 90
p0 −8.938e−07 ± 1.129e−06
0.04
0.02
0
−0.02
−0.04
pull
Entries 91
Mean 49.56
Std Dev 9.9
3
2
1
0
−1
−2
−3

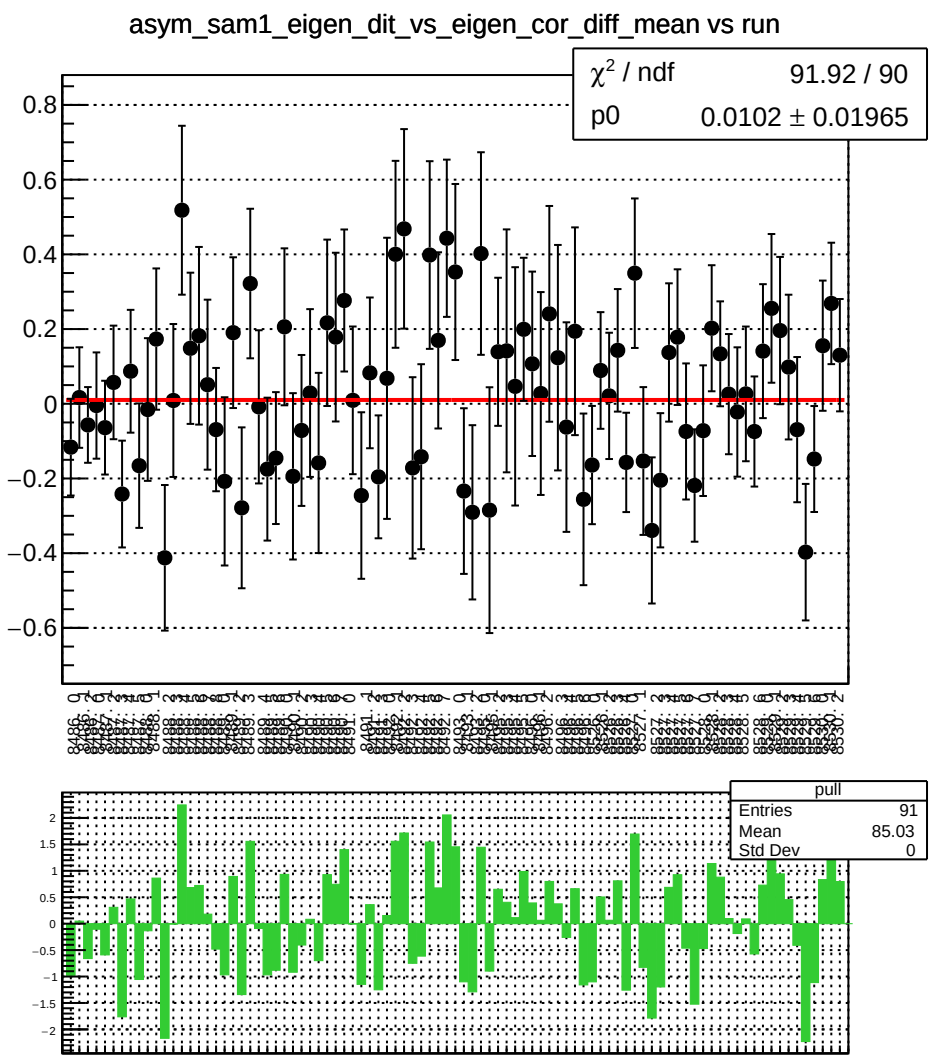

pull1D
Entries 91
Mean −0.03181
Std Dev 0.984
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

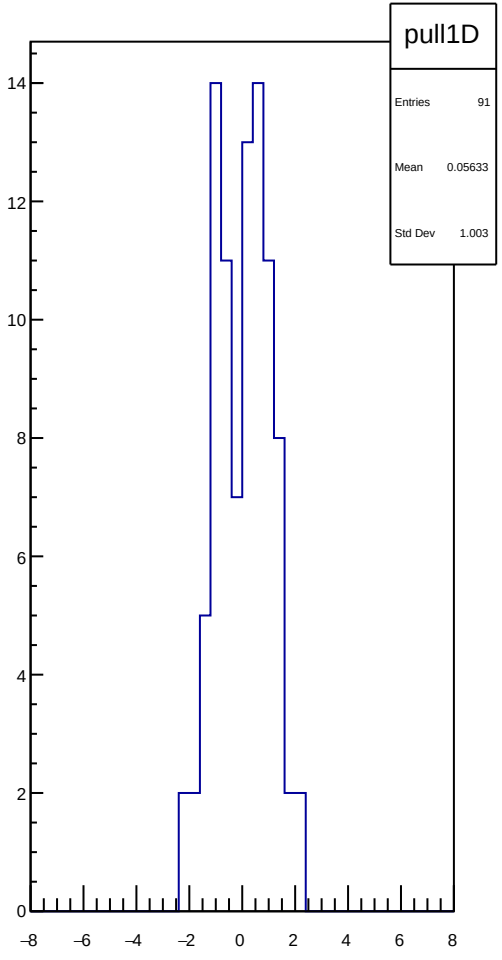

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.226e+04 / 90
p0 0.001052 ± 7.985e−07
0.0013
0.0012
0.0011
0.001
0.0009

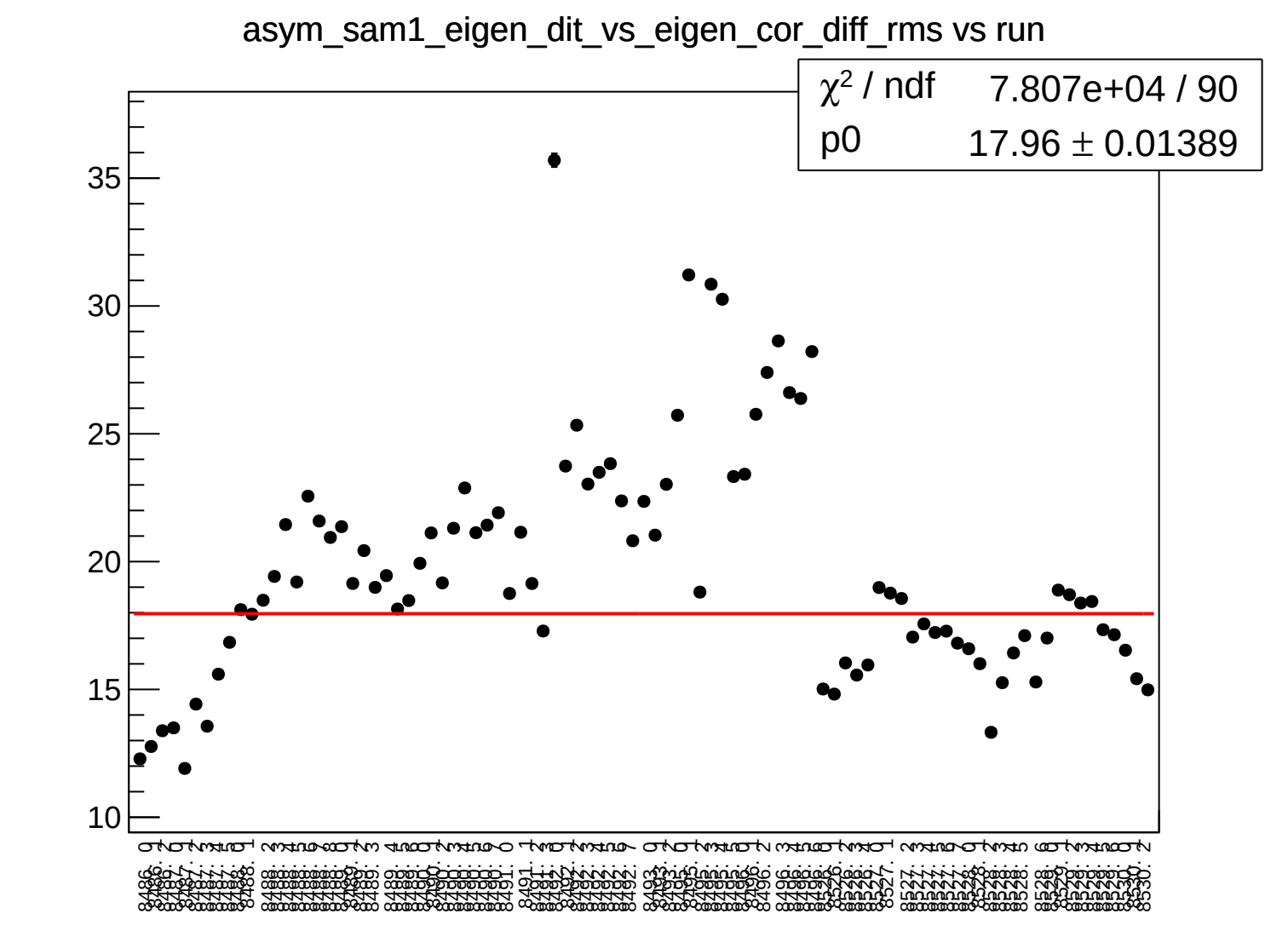

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.92 / 90
p0 0.0102 ± 0.01965
pull
Entries 91
Mean 85.03
Std Dev 0

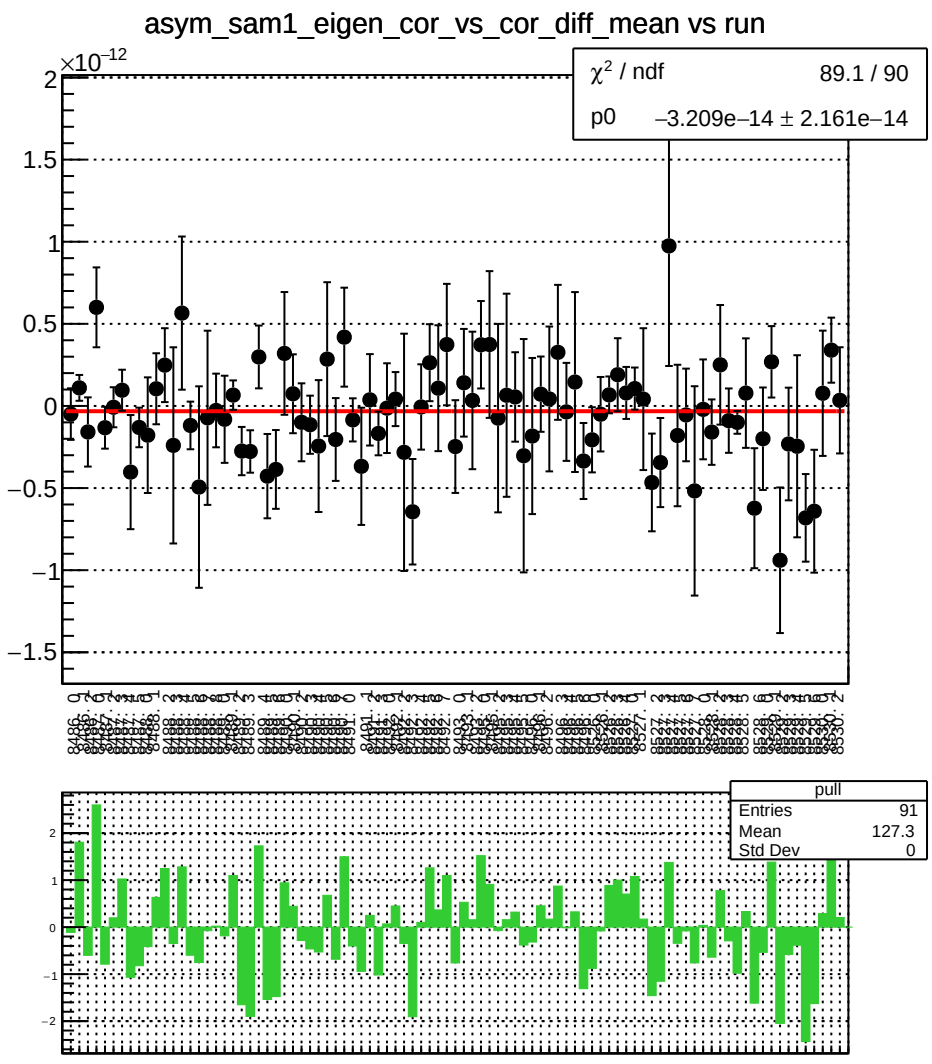

pull1D
Entries 91
Mean 0.05633
Std Dev 1.003

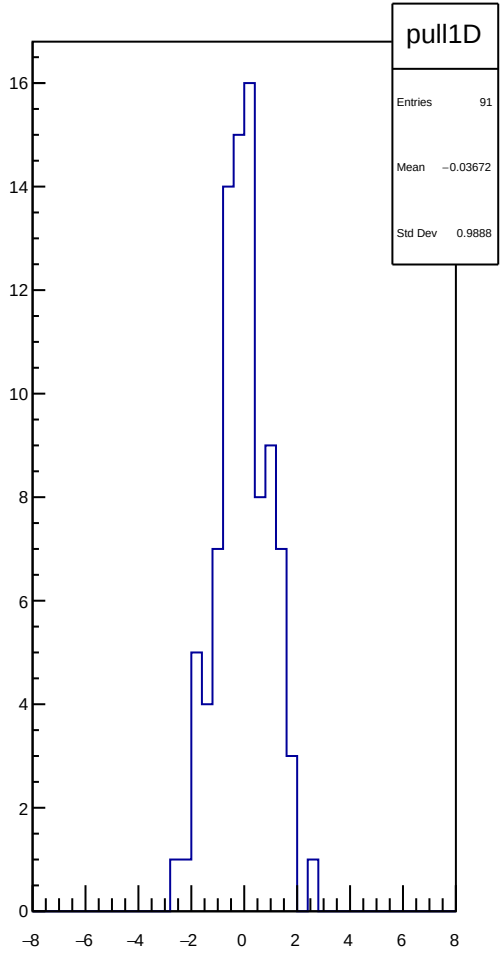

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.807e+04 / 90
p0 17.96 ± 0.01389
35
30
25
20
15
10

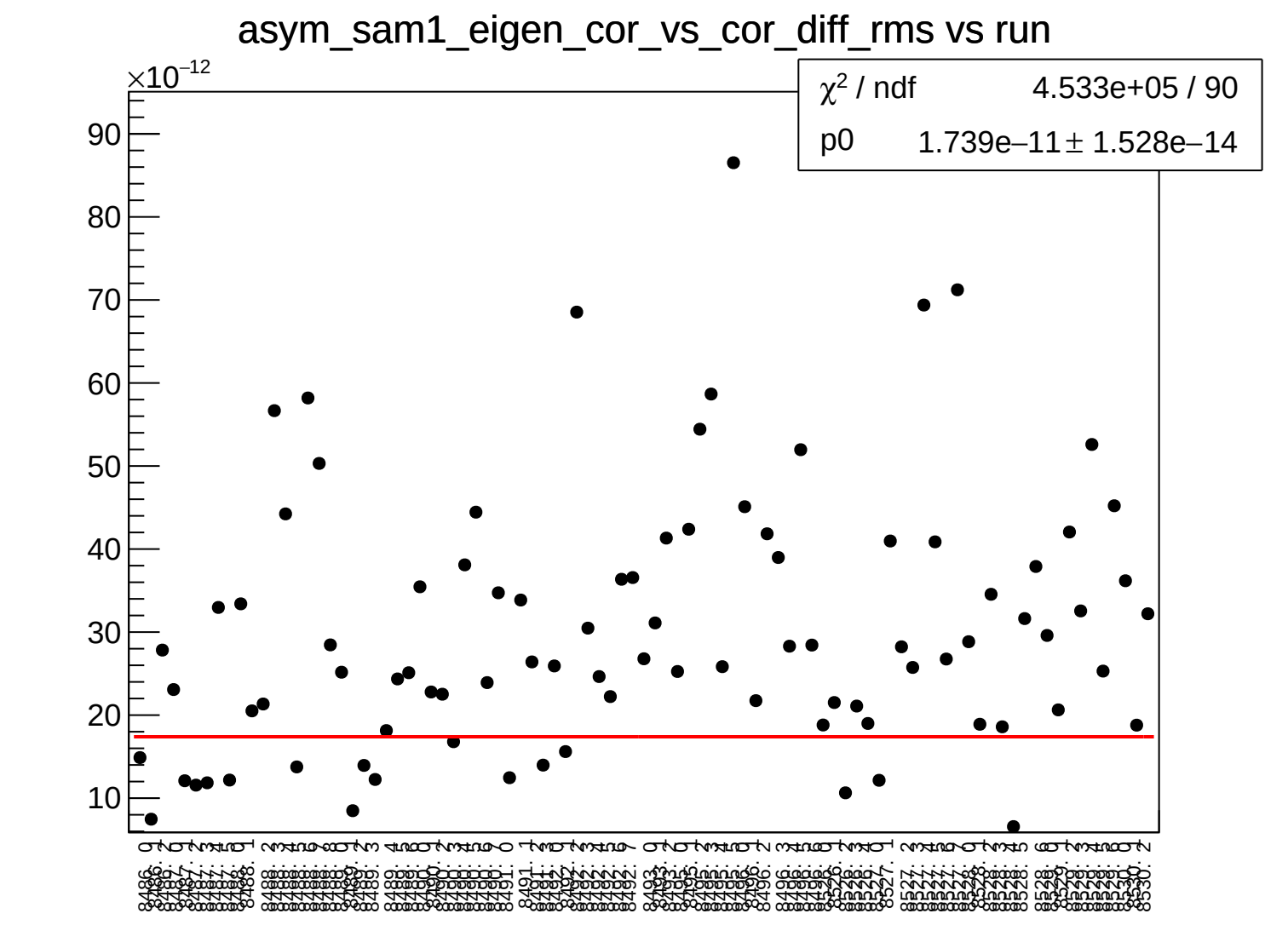

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ^2 / ndf 91.92 / 90
p0 0.0102 ± 0.01965
pull
Entries 91
Mean 85.03
Std Dev 0

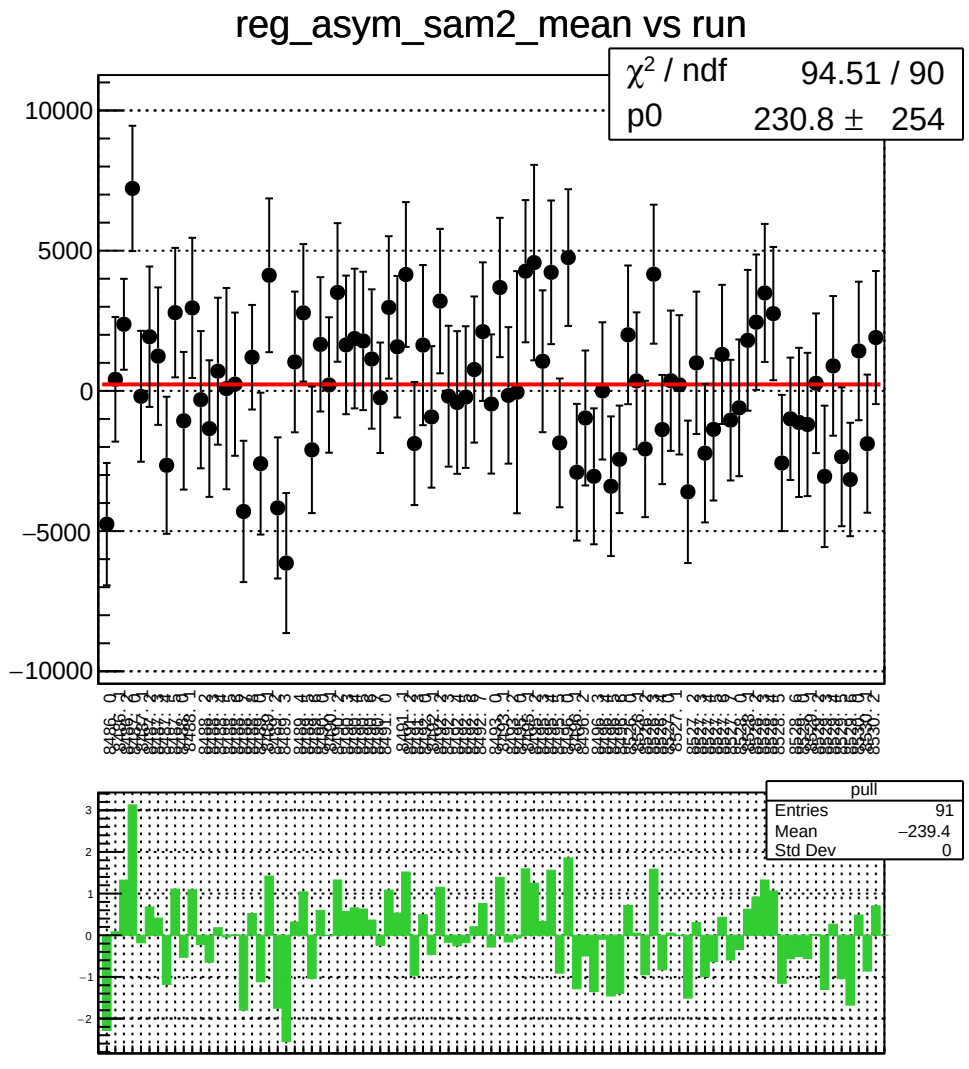

pull1D
Entries 91
Mean 0.05633
Std Dev 1.003

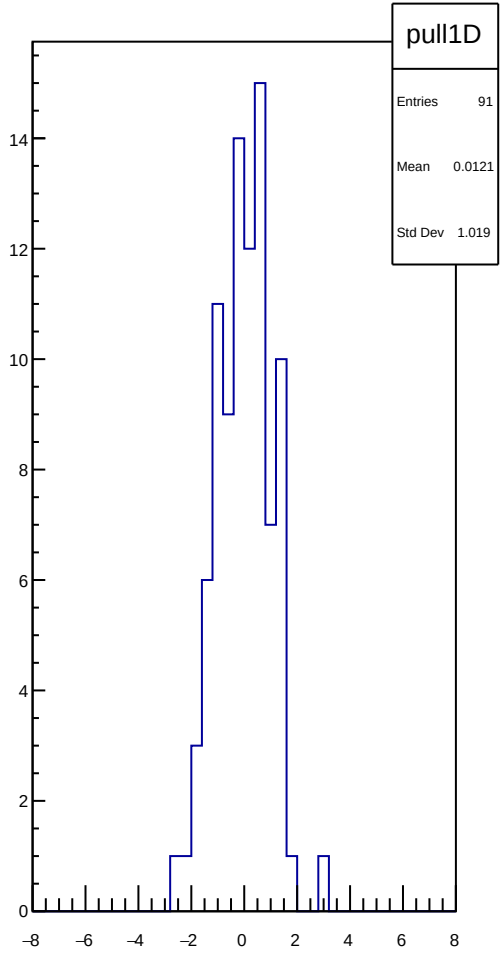

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.807e+04 / 90
p0 17.96 ± 0.01389
35
30
25
20
15
10

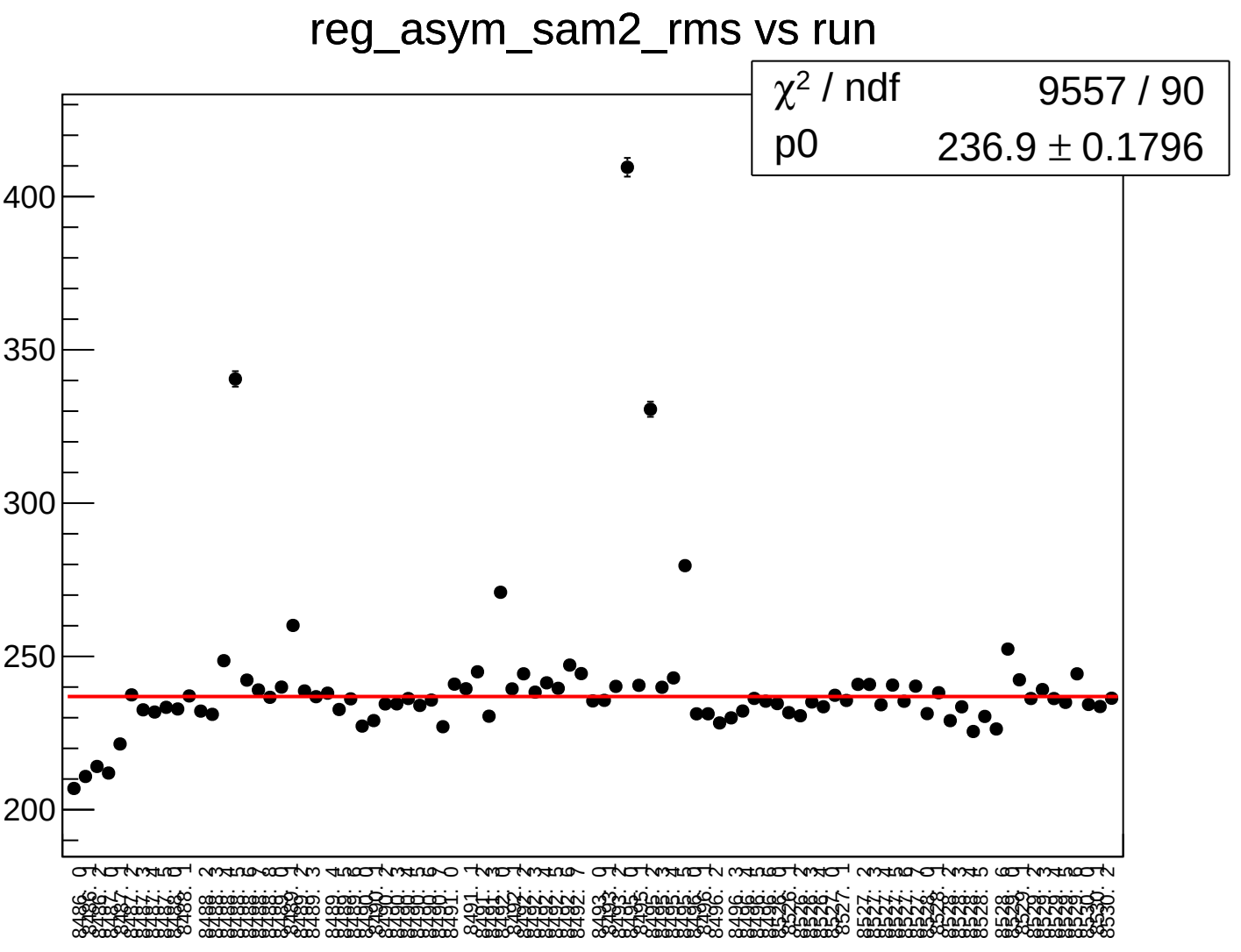

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.1 / 90
p0 −3.209e−14 ± 2.161e−14
pull
Entries 91
Mean 127.3
Std Dev 0

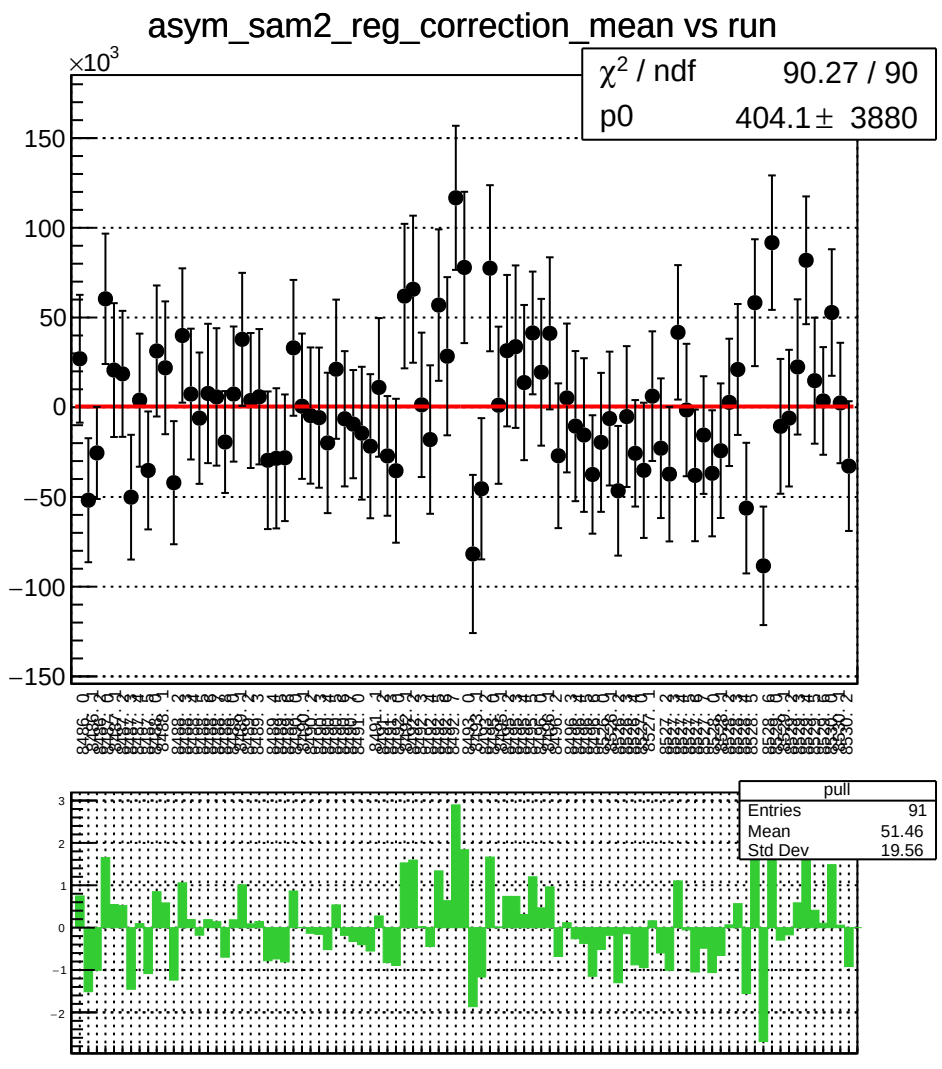

pull1D
Entries 91
Mean −0.03672
Std Dev 0.9888

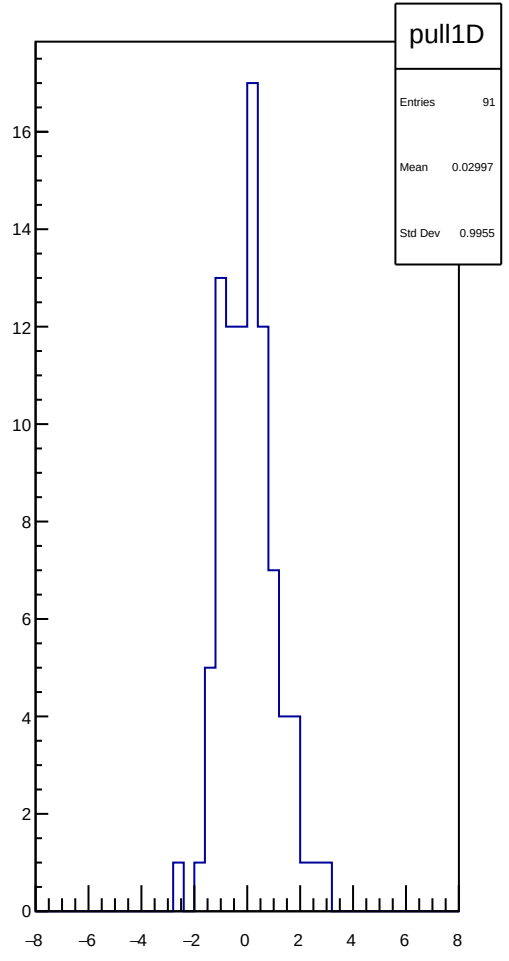

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.533e+05 / 90
p0 1.739e−11 ± 1.528e−14
90
80
70
60
50
40
30
20
10

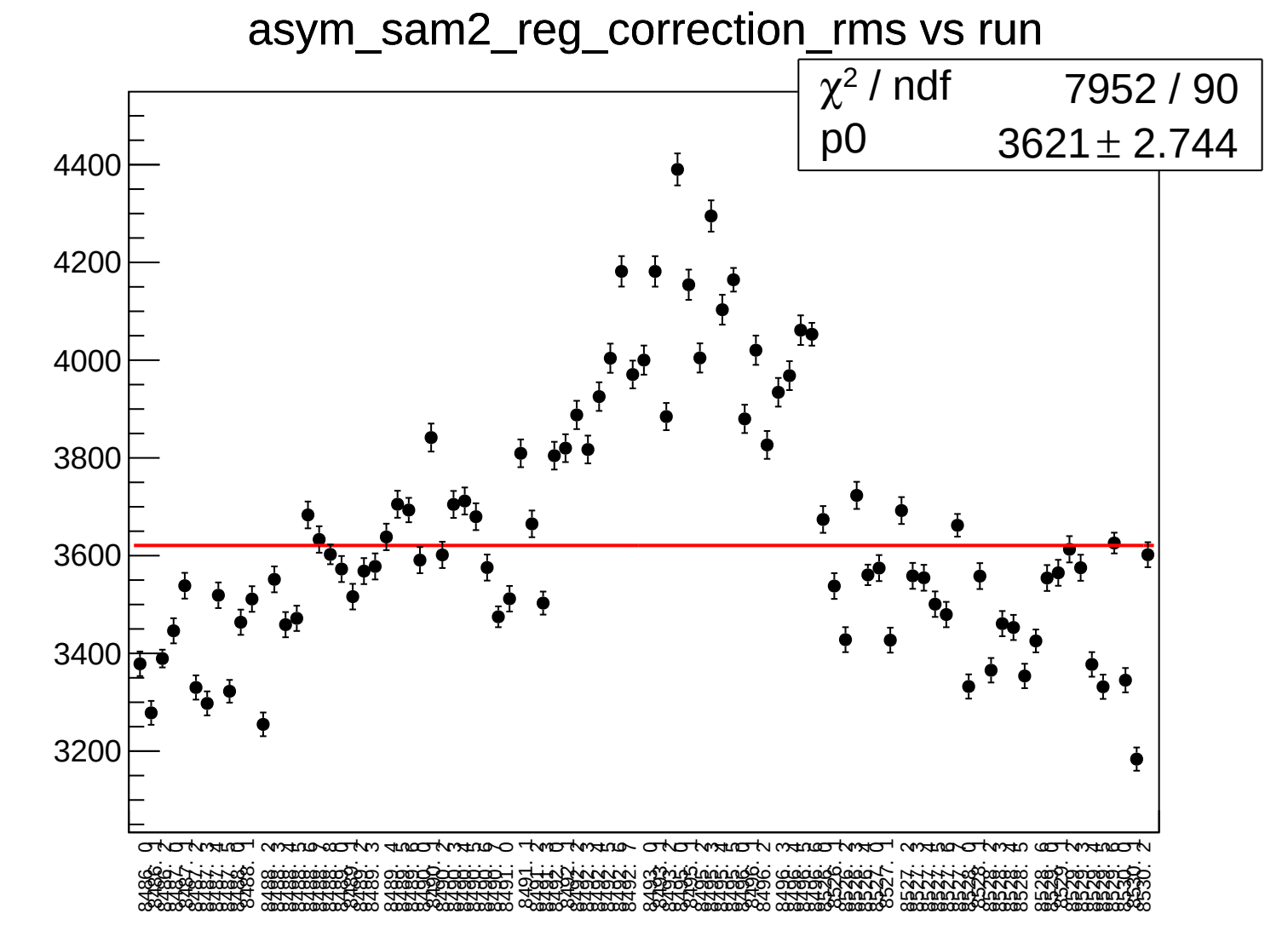

reg_asym_sam2_mean vs run
χ² / ndf 94.51 / 90
p0 230.8 ± 254
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −239.4
Std Dev 0
3
2
1
0
−1
−2

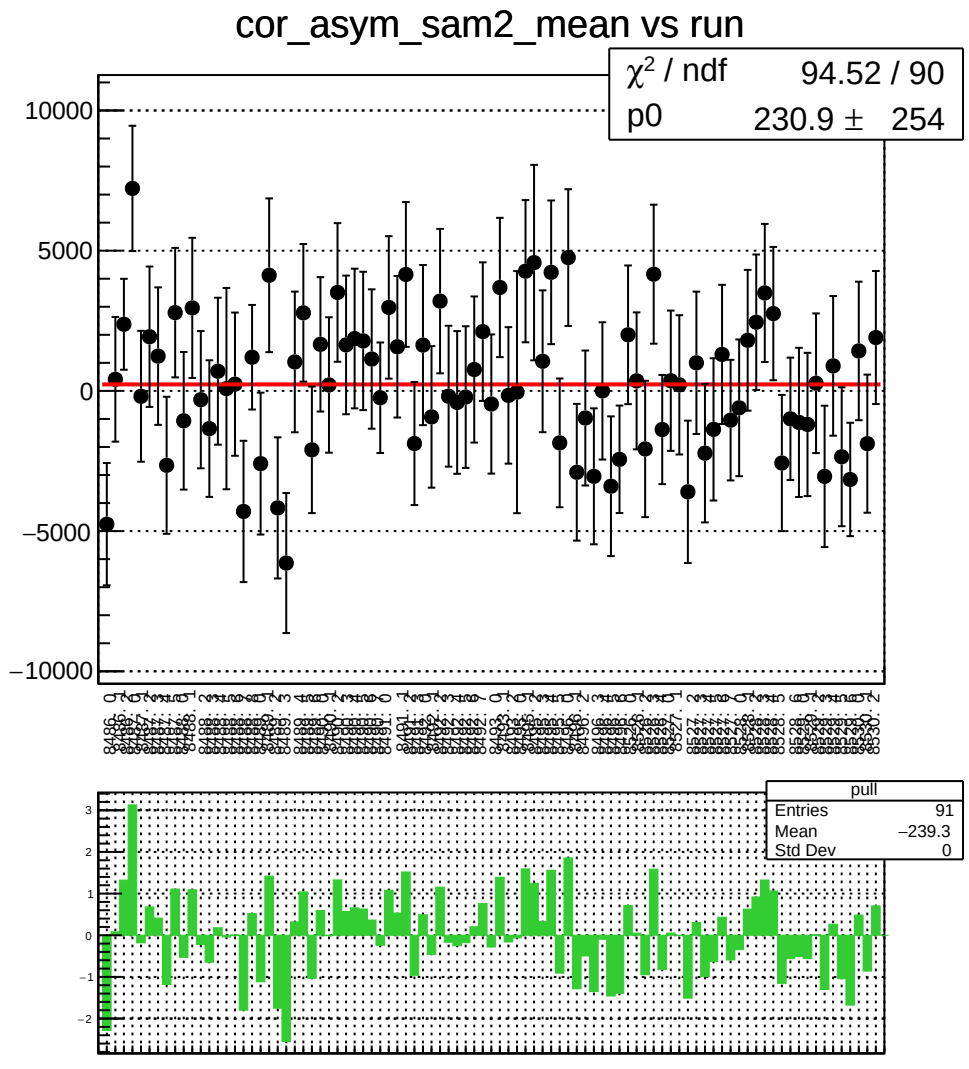

pull1D
Entries 91
Mean 0.0121
Std Dev 1.019
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

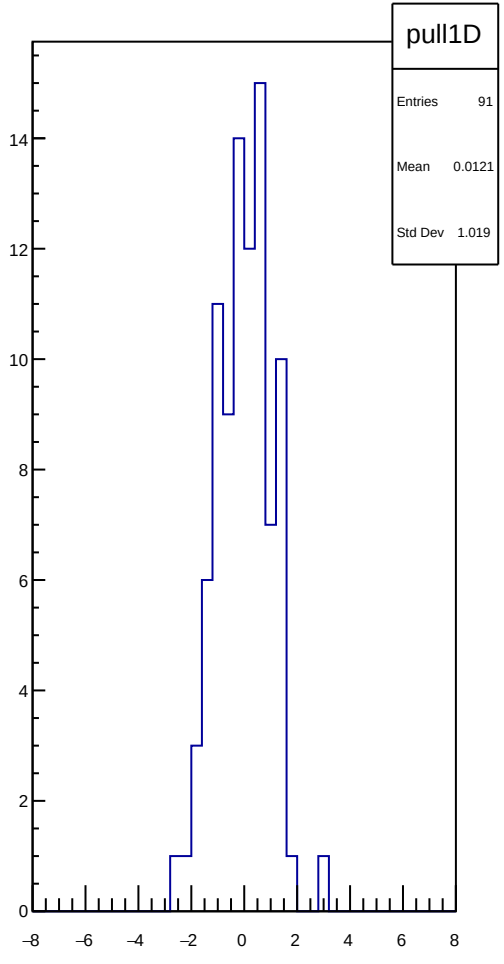

reg_asym_sam2_rms vs run
χ² / ndf 9557 / 90
p0 236.9 ± 0.1796
400
350
300
250
200

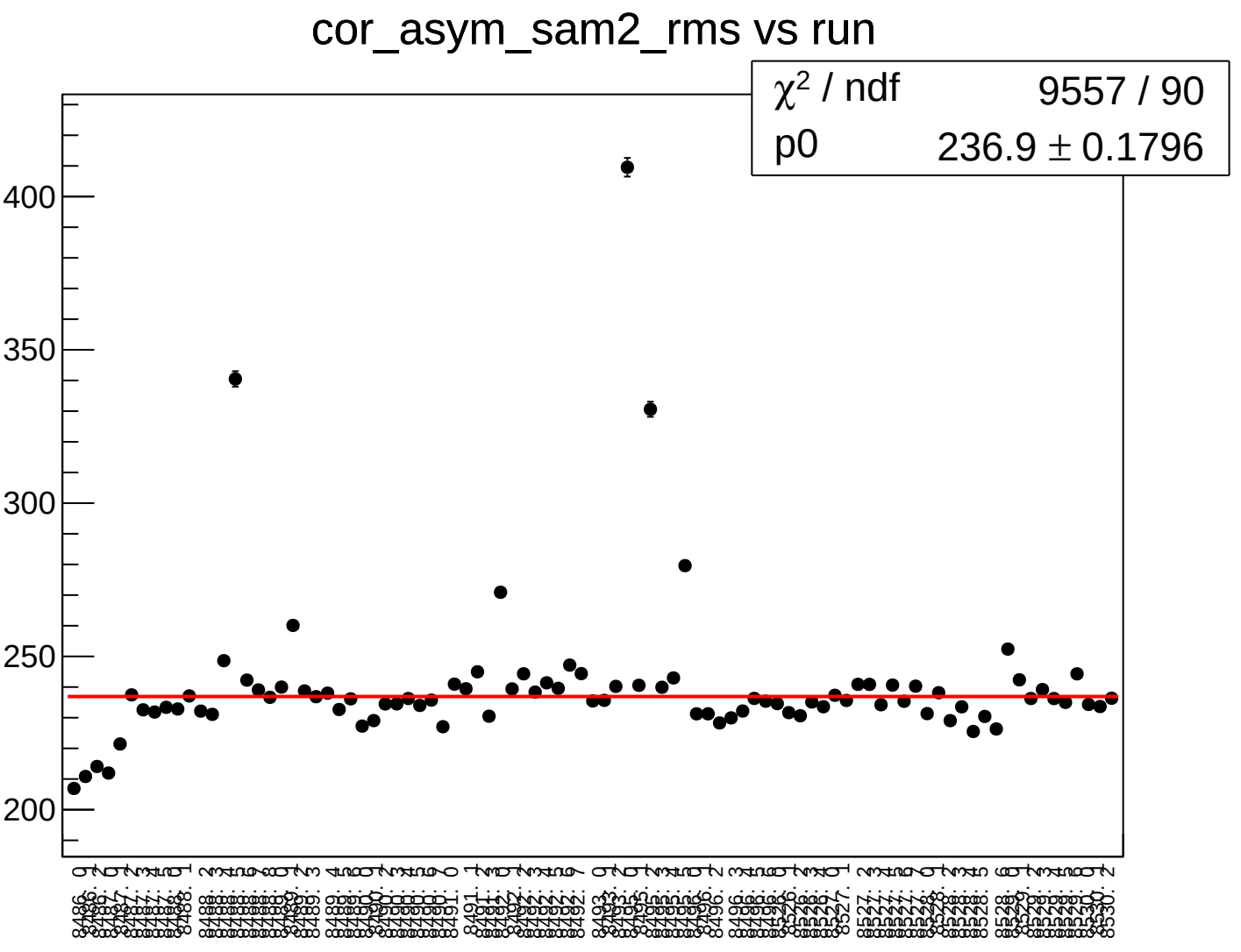

asym_sam2_reg_correction_mean vs run
×10^3
χ^2 / ndf 90.27 / 90
p0 404.1 ± 3880
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean 51.46
Std Dev 19.56
3
2
1
0
−1
−2

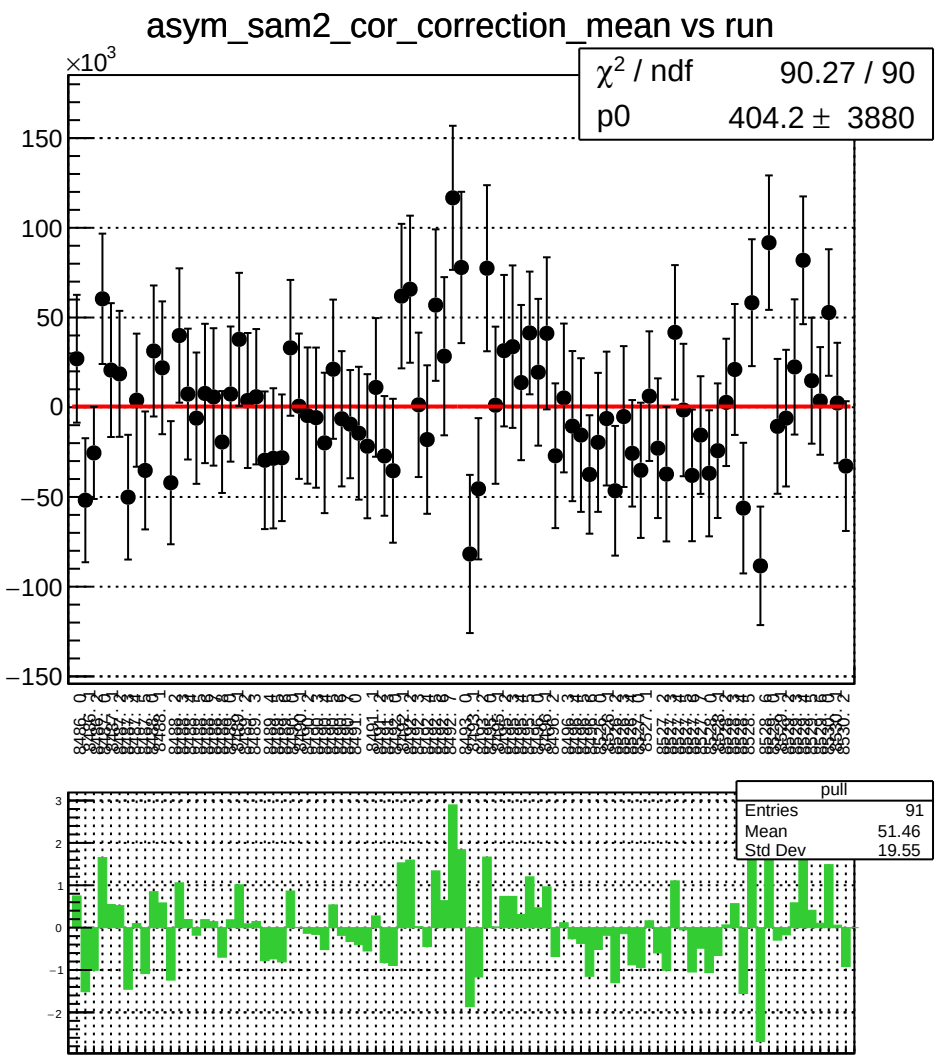

pull1D
Entries 91
Mean 0.02997
Std Dev 0.9955
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

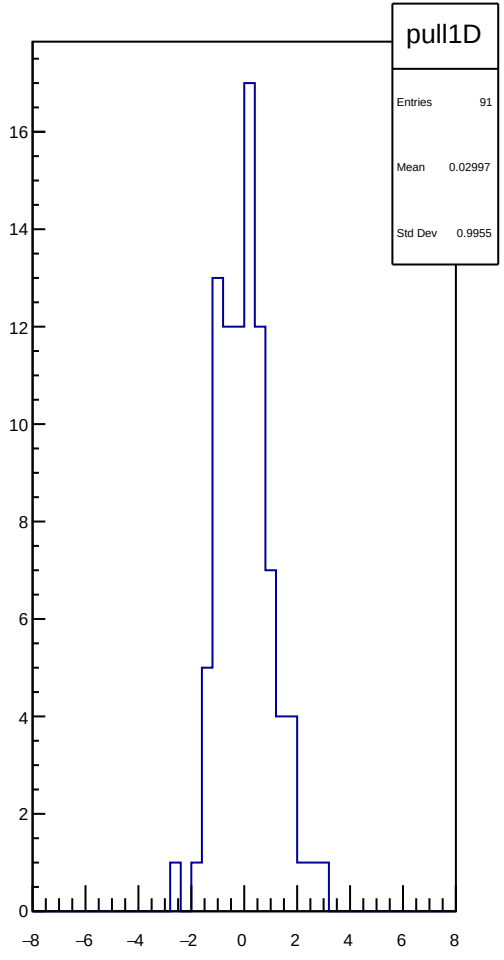

asym_sam2_reg_correction_rms vs run
χ² / ndf 7952 / 90
p0 3621 ± 2.744
4400
4200
4000
3800
3600
3400
3200

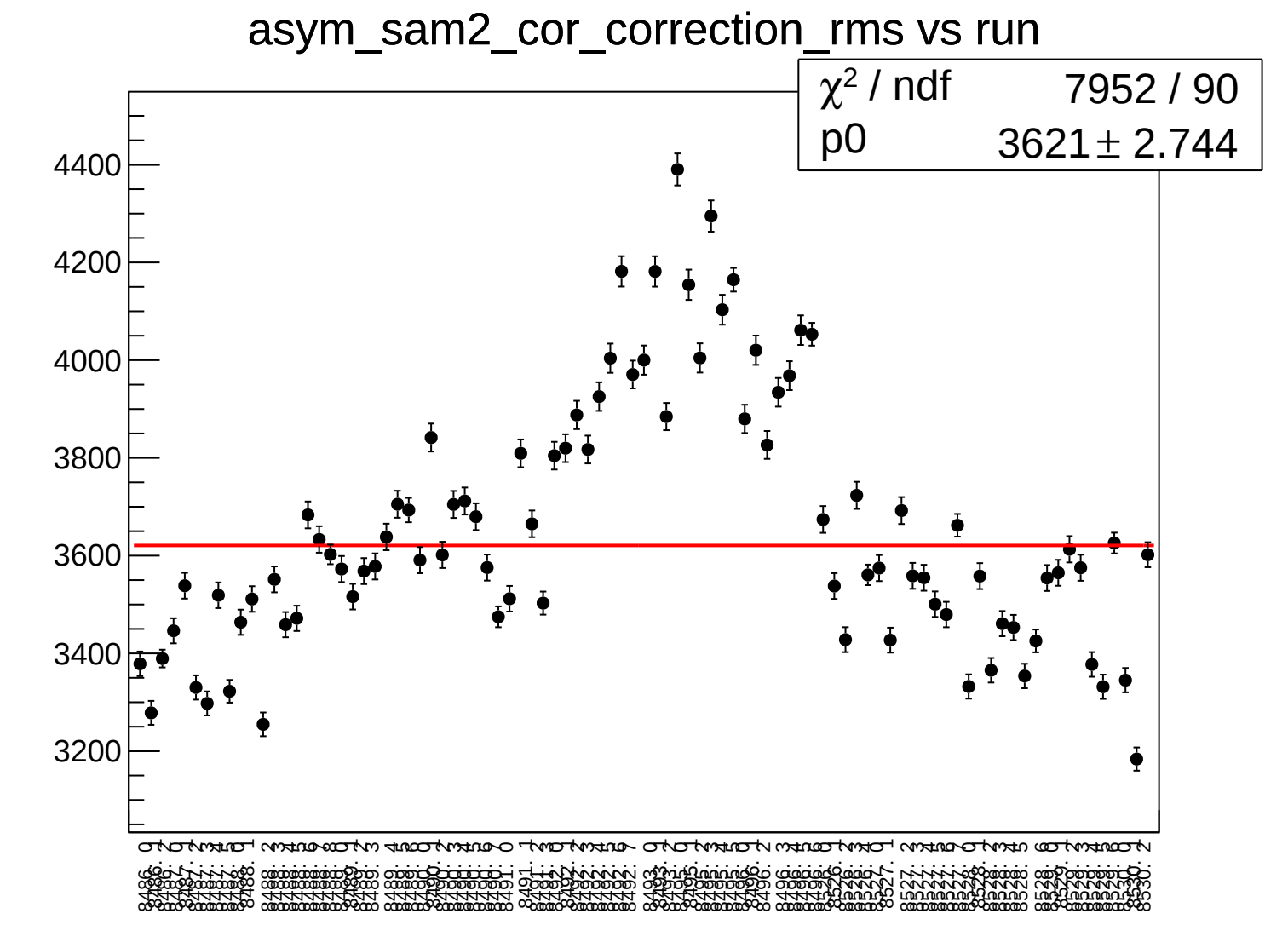

cor_asym_sam2_mean vs run
χ² / ndf 94.52 / 90
p0 230.9 ± 254
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −239.3
Std Dev 0
3
2
1
0
−1
−2

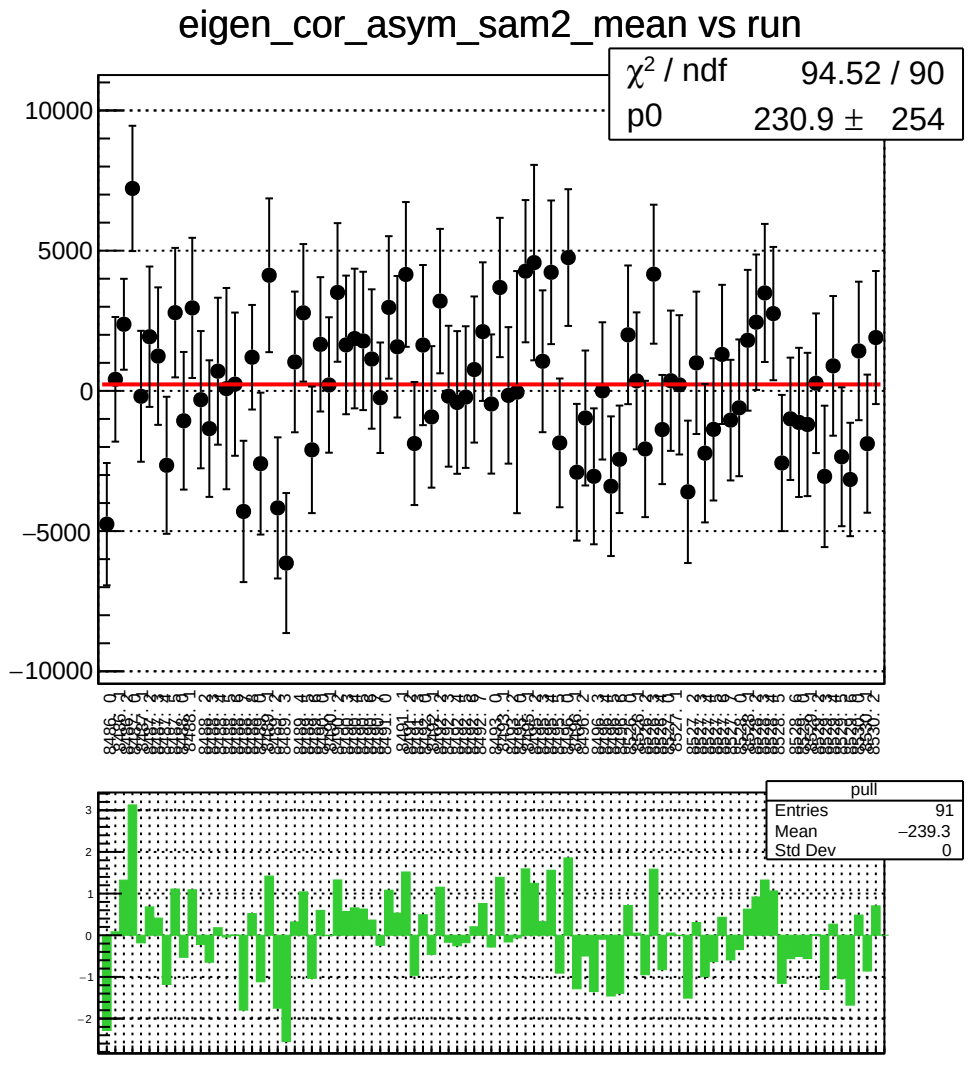

pull1D
Entries 91
Mean 0.0121
Std Dev 1.019
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

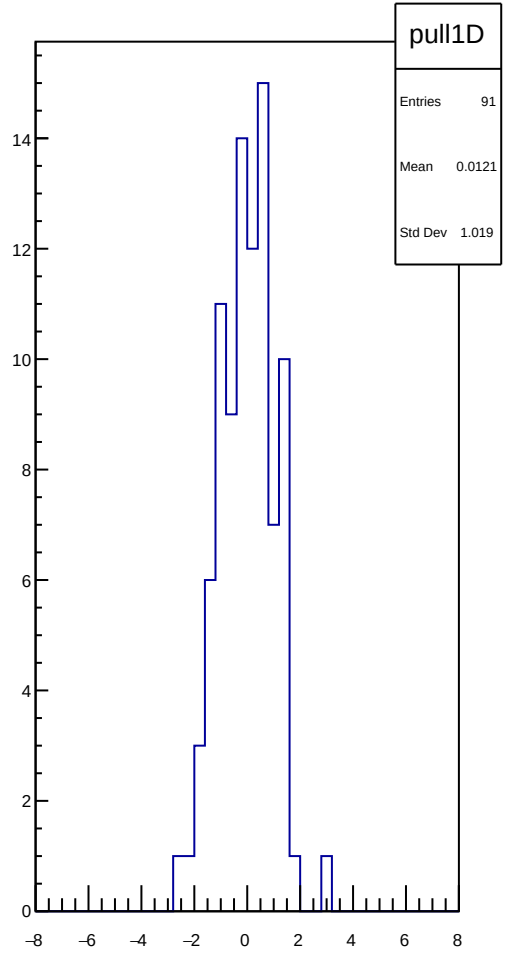

cor_asym_sam2_rms vs run
χ² / ndf 9557 / 90
p0 236.9 ± 0.1796
400
350
300
250
200

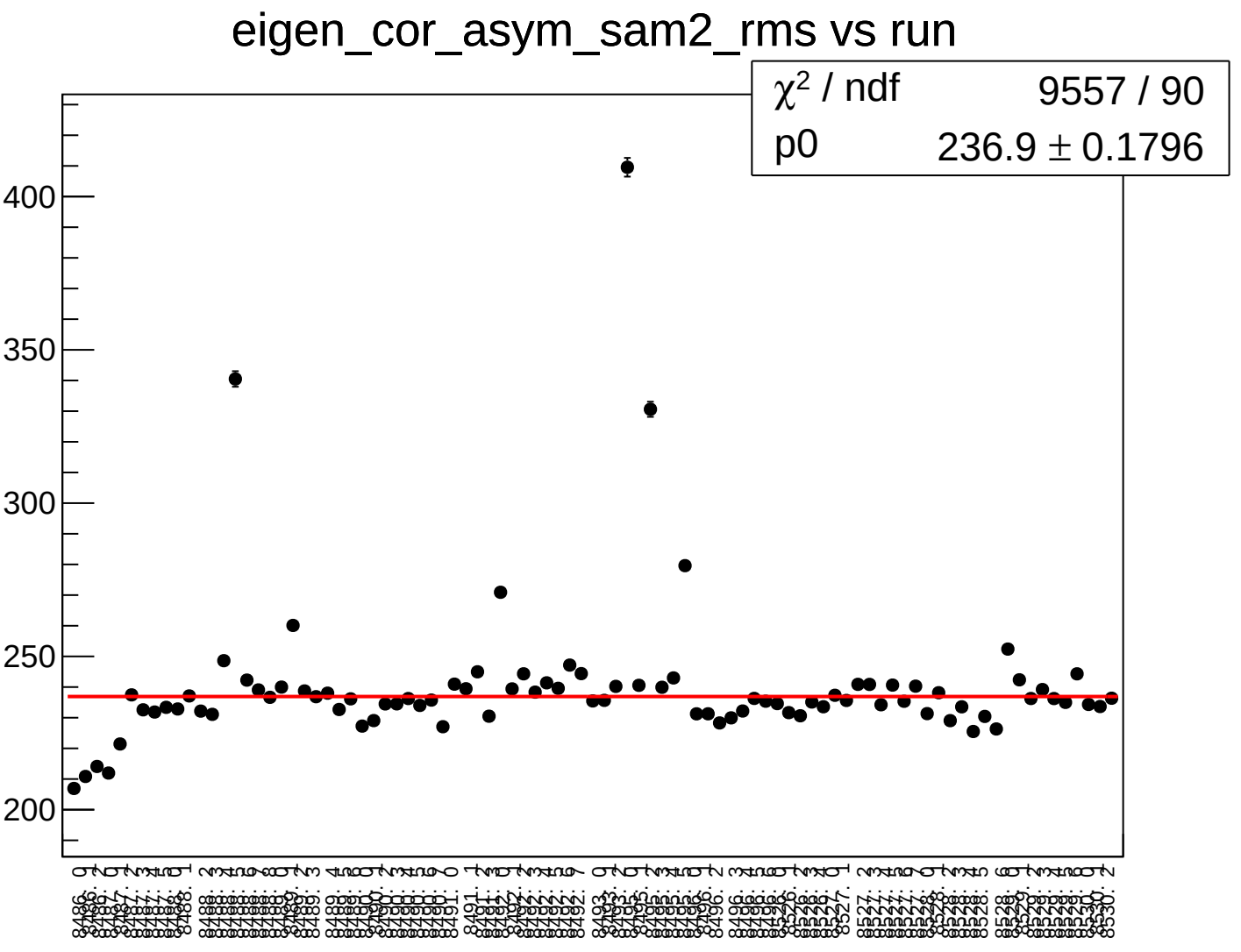

asym_sam2_cor_correction_mean vs run
×10^3
χ² / ndf 90.27 / 90
p0 404.2 ± 3880
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean 51.46
Std Dev 19.55
3
2
1
0
−1
−2

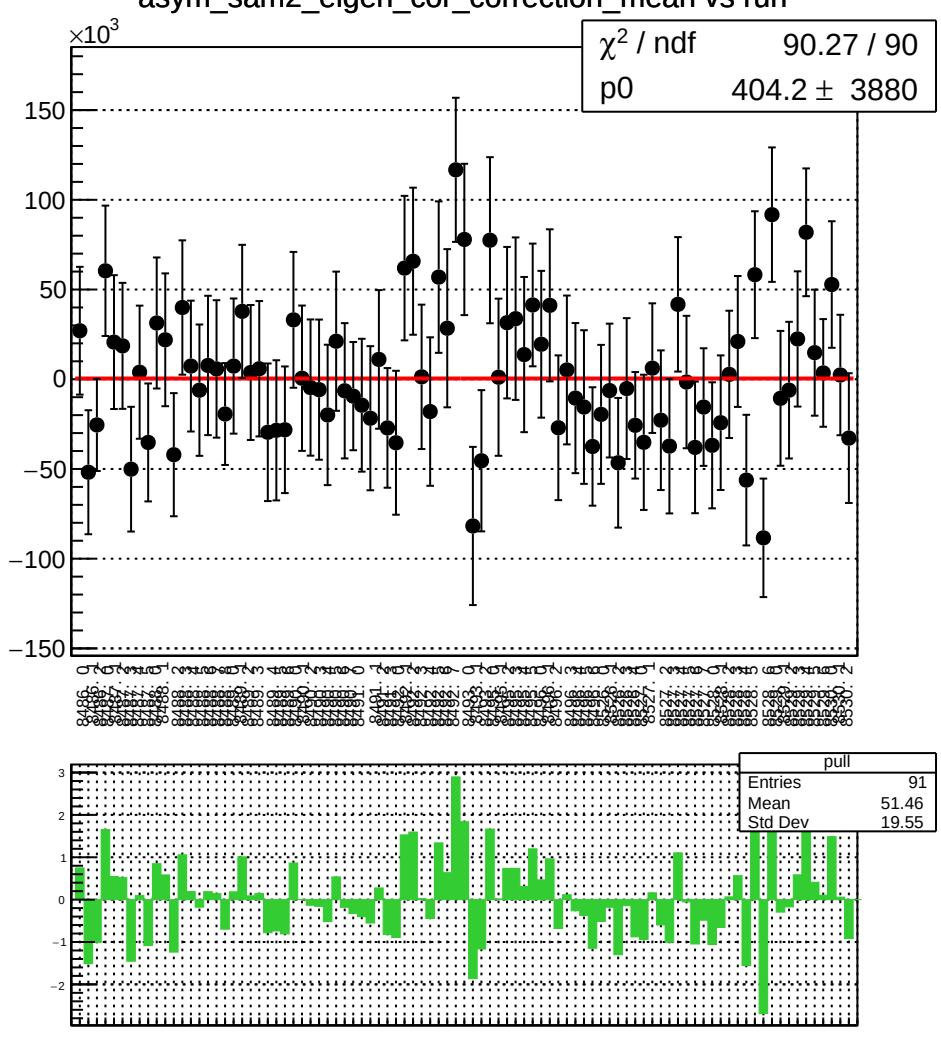

pull1D
Entries 91
Mean 0.02997
Std Dev 0.9955
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

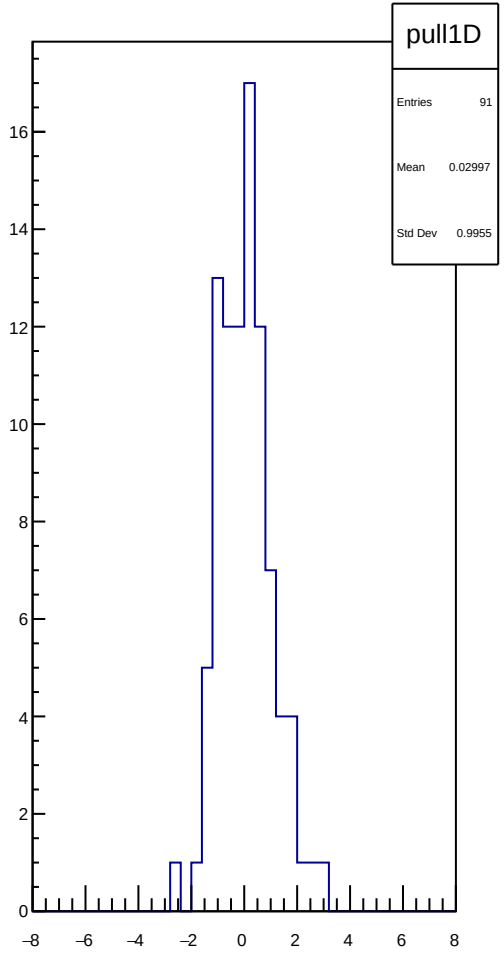

asym_sam2_cor_correction_rms vs run
χ² / ndf 7952 / 90
p0 3621 ± 2.744
4400
4200
4000
3800
3600
3400
3200

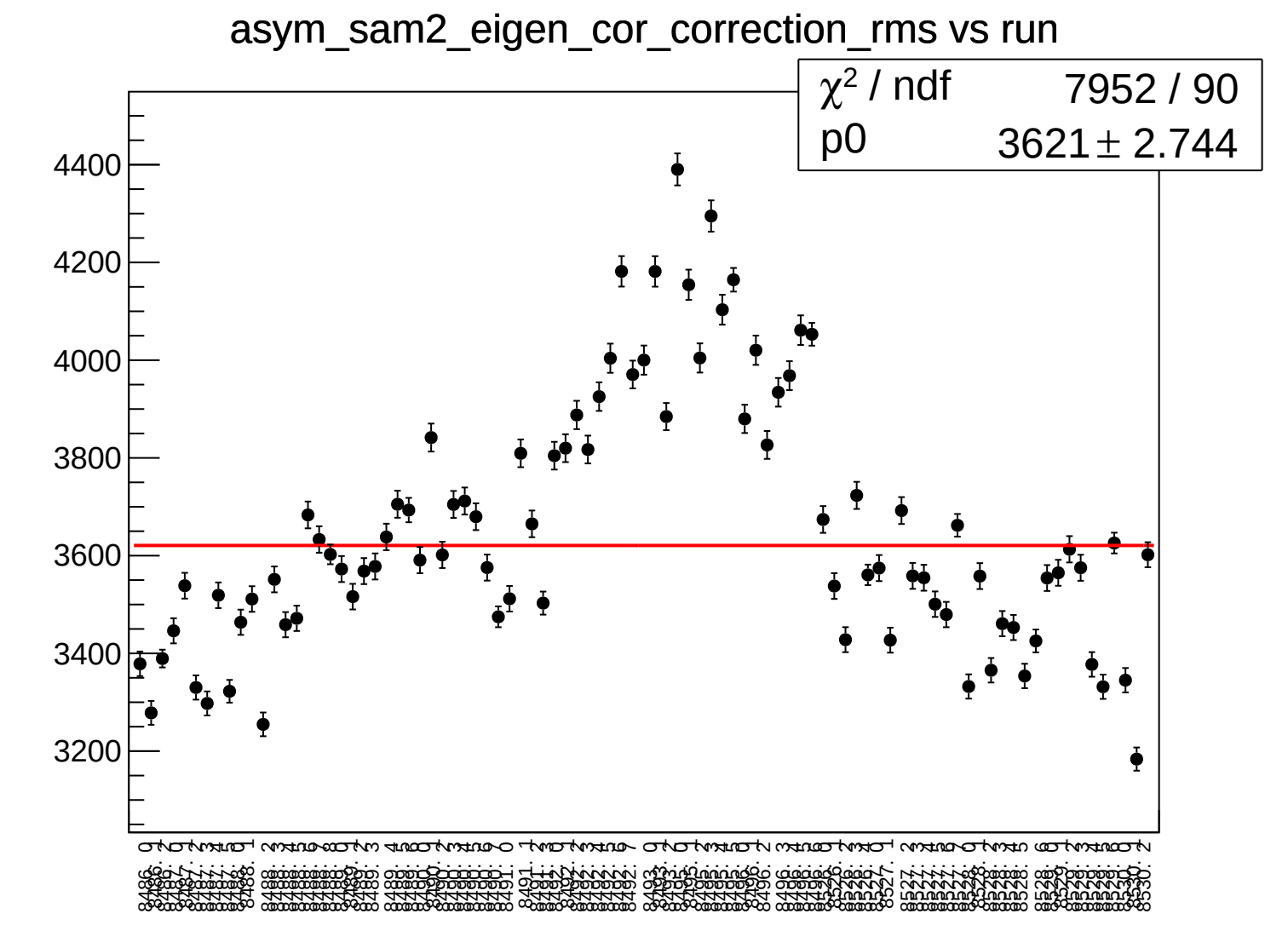

eigen_cor_asym_sam2_mean vs run
χ² / ndf 94.52 / 90
p0 230.9 ± 254
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −239.3
Std Dev 0
3
2
1
0
−1
−2

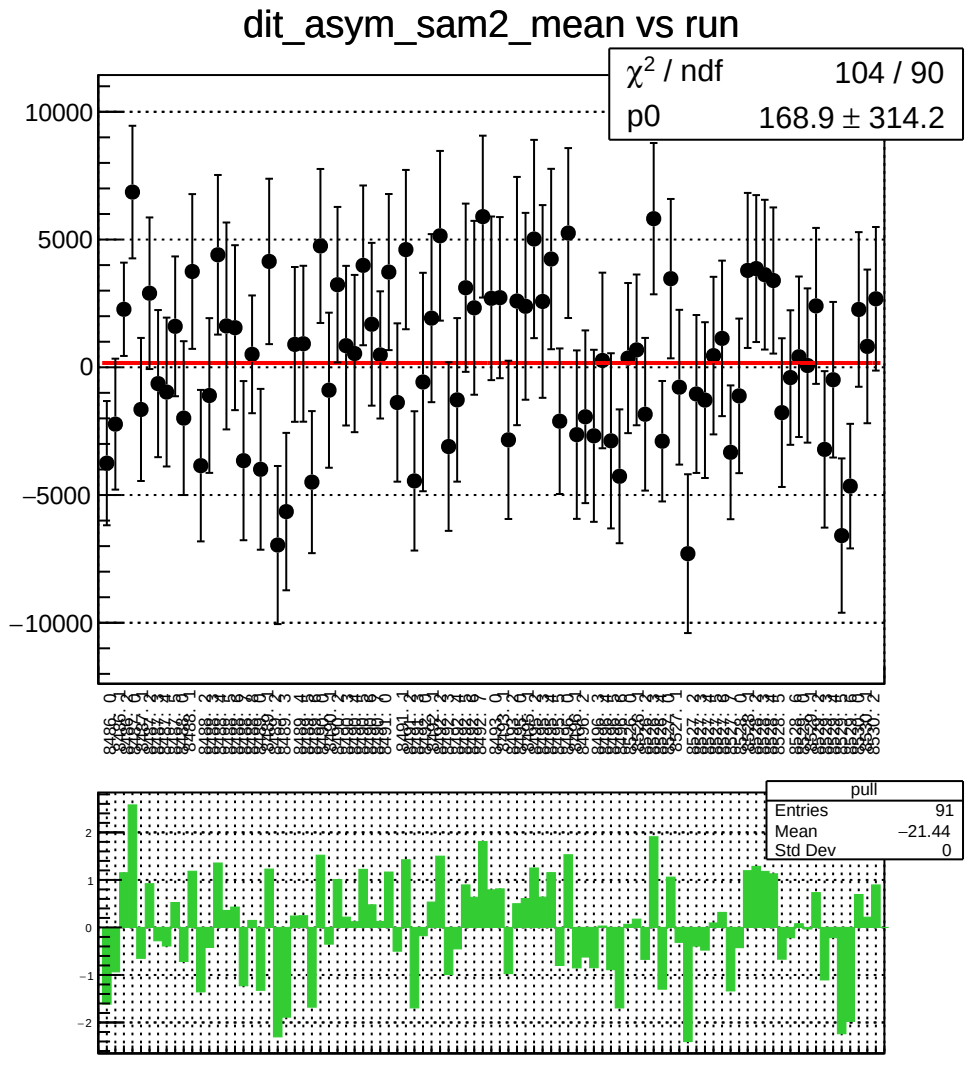

pull1D
Entries 91
Mean 0.0121
Std Dev 1.019
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

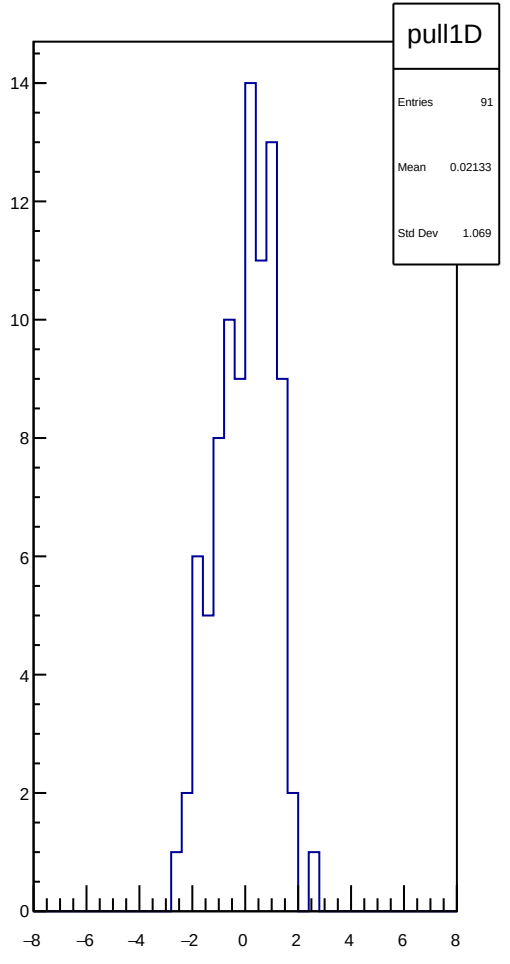

eigen_cor_asym_sam2_rms vs run
χ² / ndf 9557 / 90
p0 236.9 ± 0.1796
400
350
300
250
200

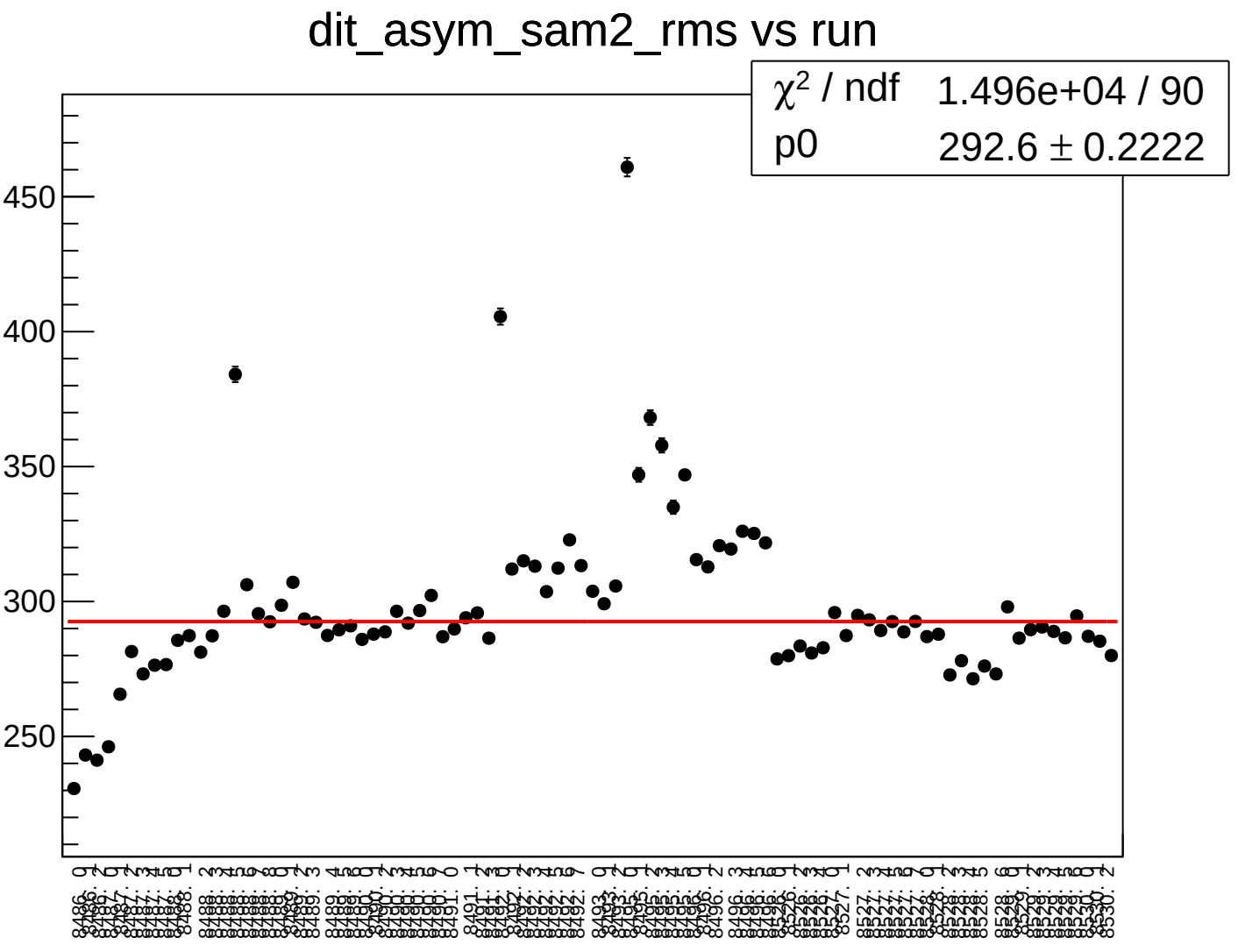

asym_sam2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 90.27 / 90
p0 404.2 ± 3880
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean 51.46
Std Dev 19.55
3
2
1
0
−1
−2

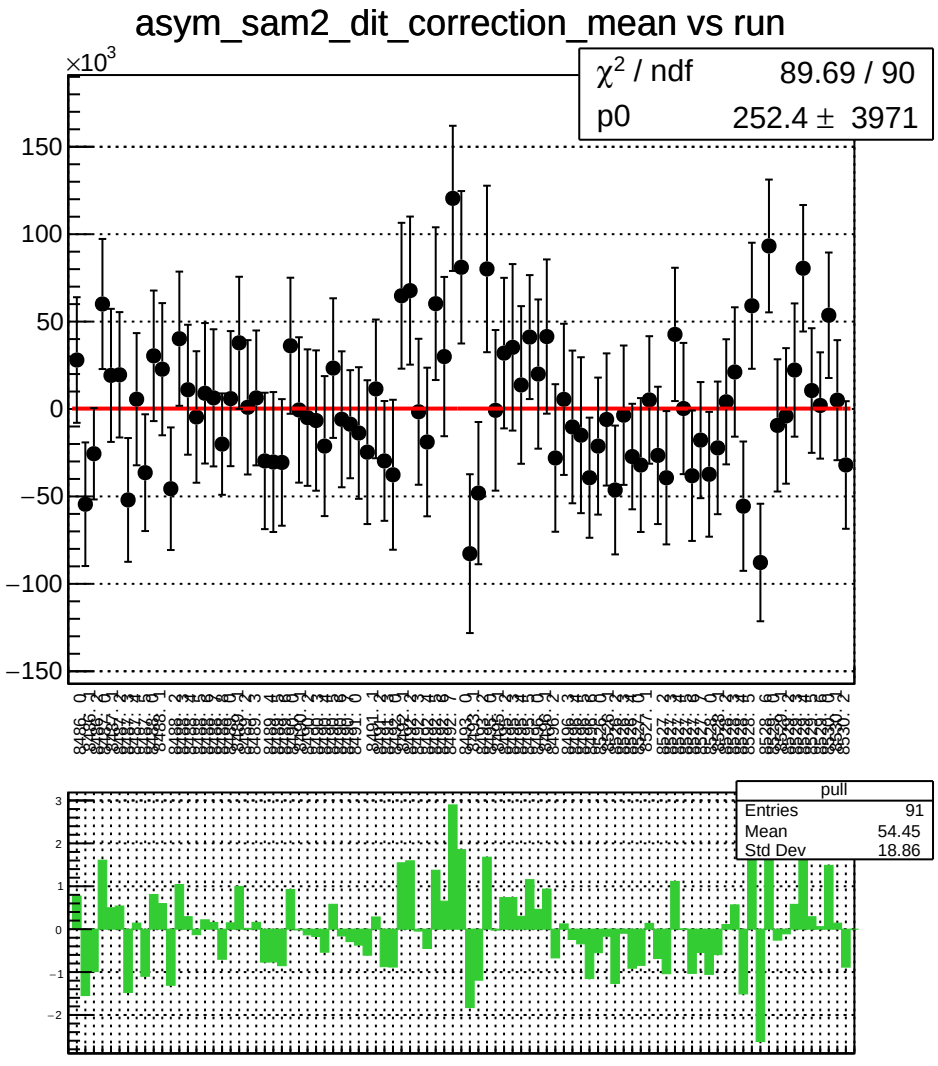

pull1D
Entries 91
Mean 0.02997
Std Dev 0.9955
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

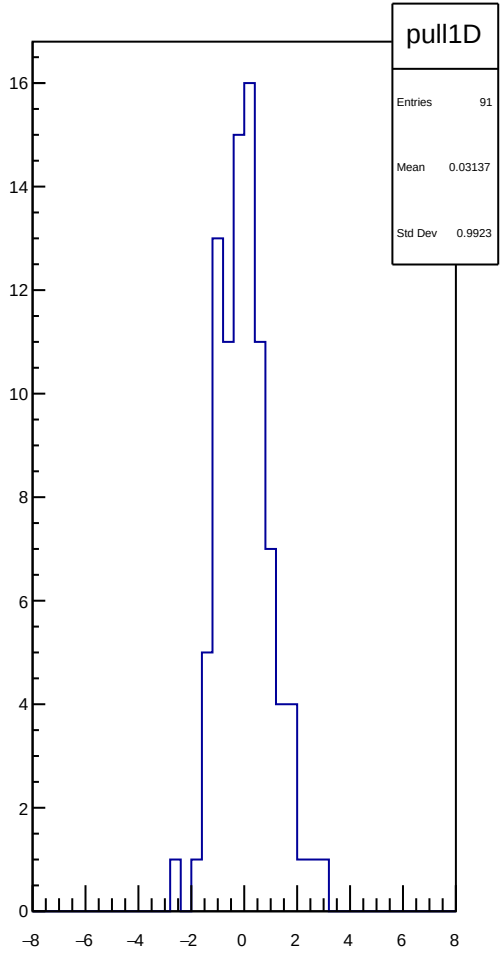

asym_sam2_eigen_cor_correction_rms vs run
χ² / ndf 7952 / 90
p0 3621 ± 2.744
4400
4200
4000
3800
3600
3400
3200

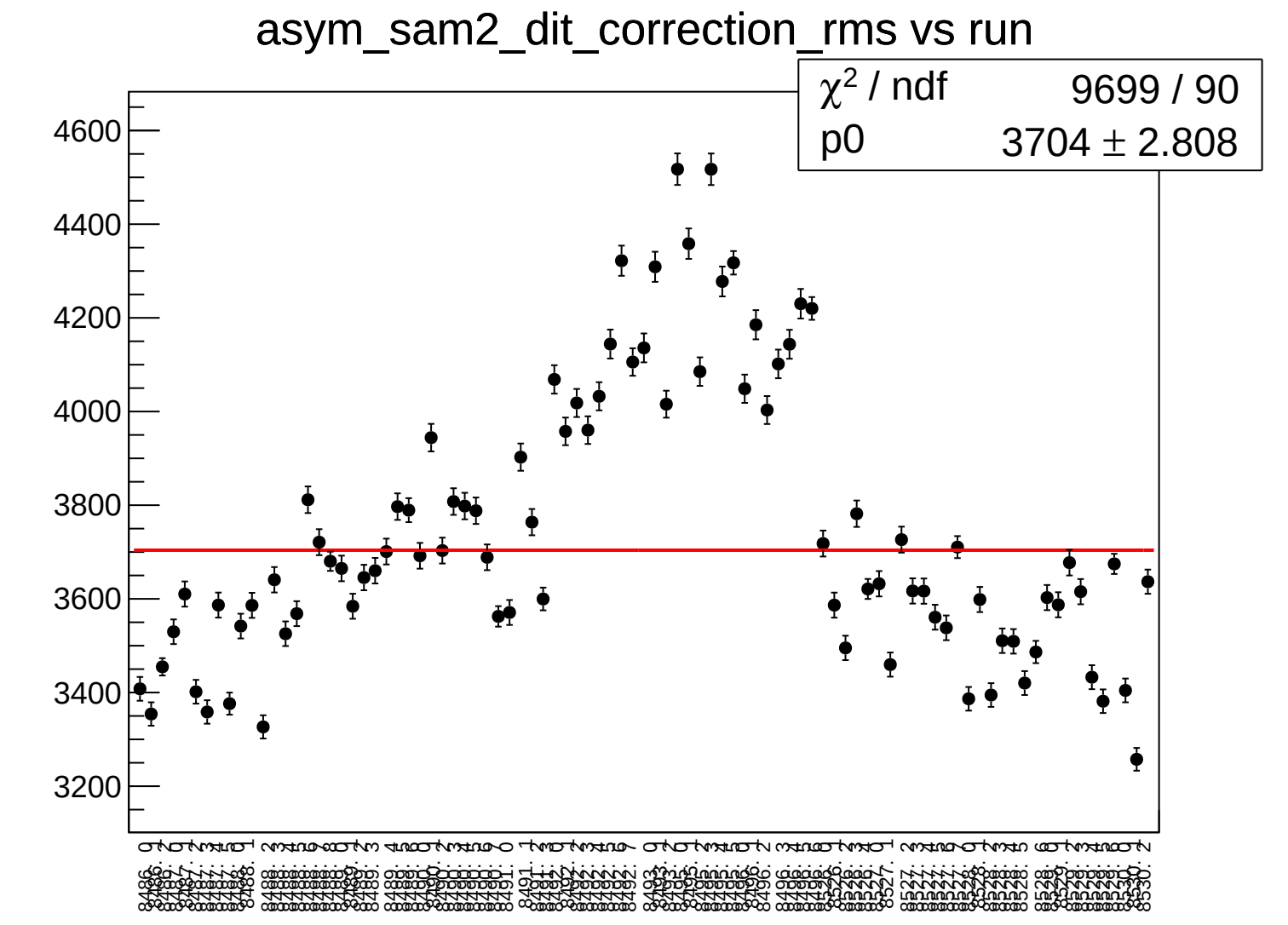

dit_asym_sam2_mean vs run
χ^2 / ndf 104 / 90
p0 168.9 ± 314.2
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −21.44
Std Dev 0
2
1
0
−1
−2

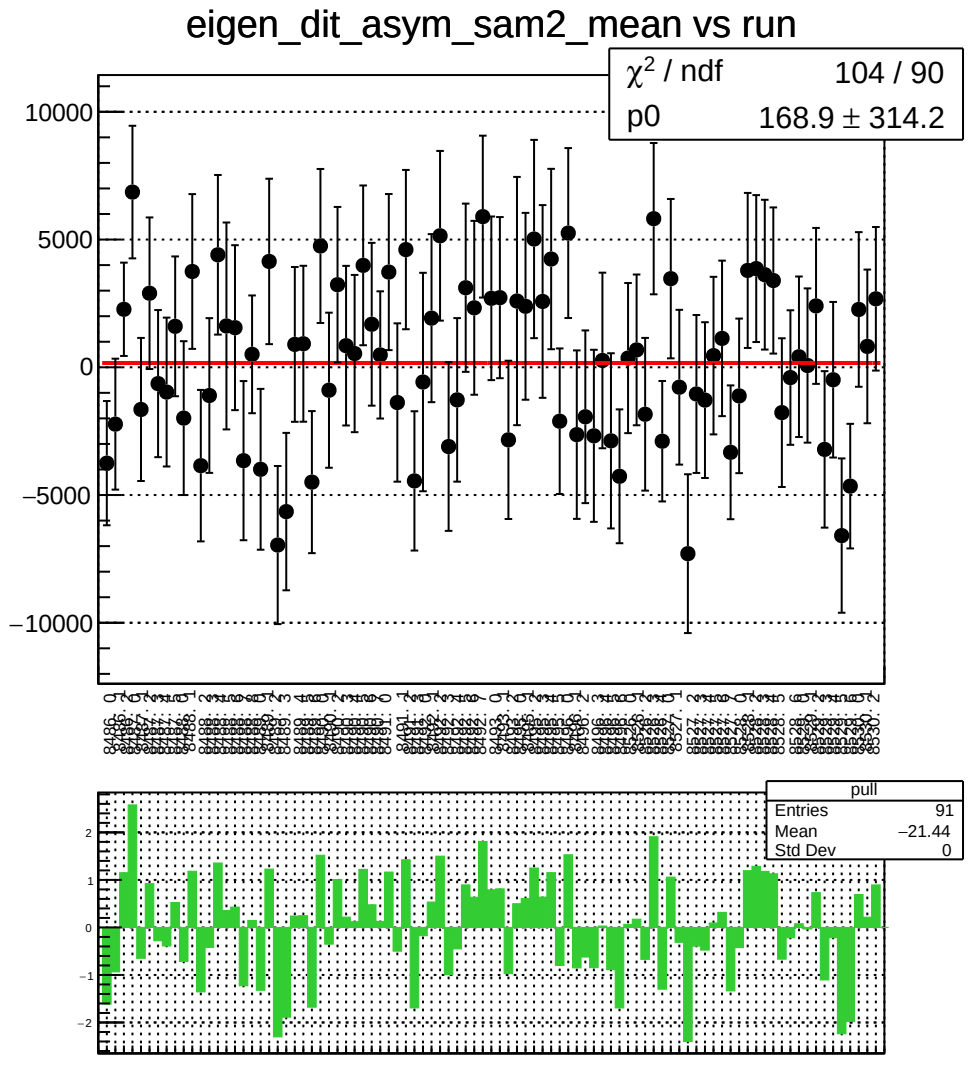

pull1D
Entries 91
Mean 0.02133
Std Dev 1.069
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

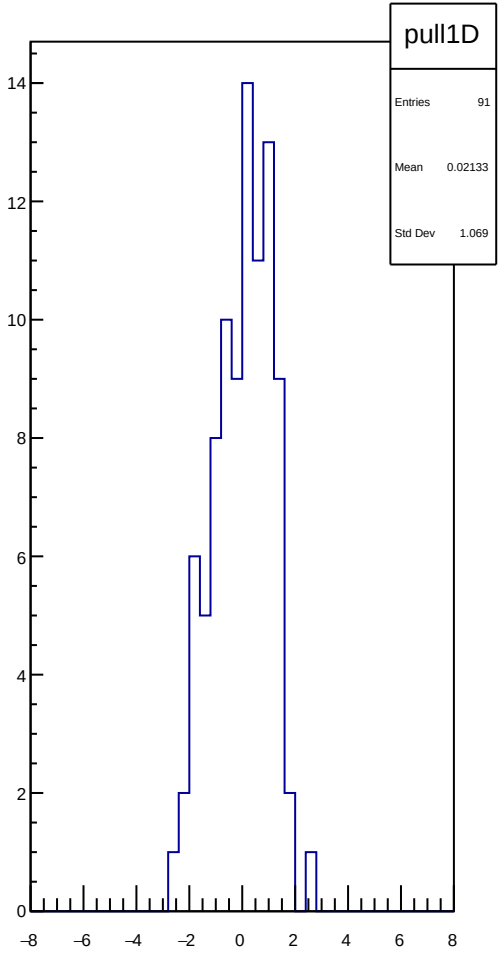

dit_asym_sam2_rms vs run
χ^2 / ndf 1.496e+04 / 90
p0 292.6 ± 0.2222
450
400
350
300
250

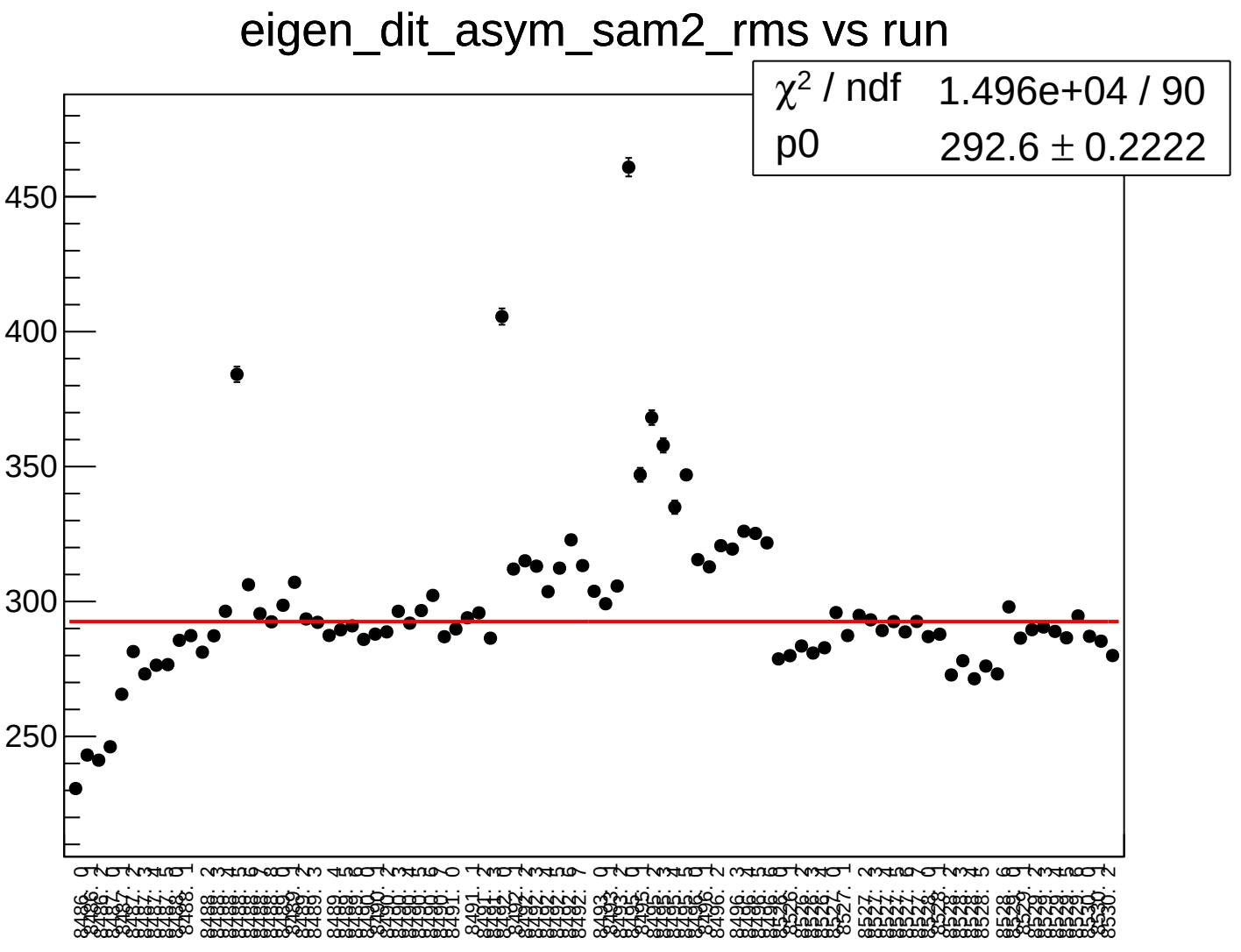

asym_sam2_dit_correction_mean vs run
×10^3
χ^2 / ndf 89.69 / 90
p0 252.4 ± 3971
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean 54.45
Std Dev 18.86
3
2
1
0
−1
−2

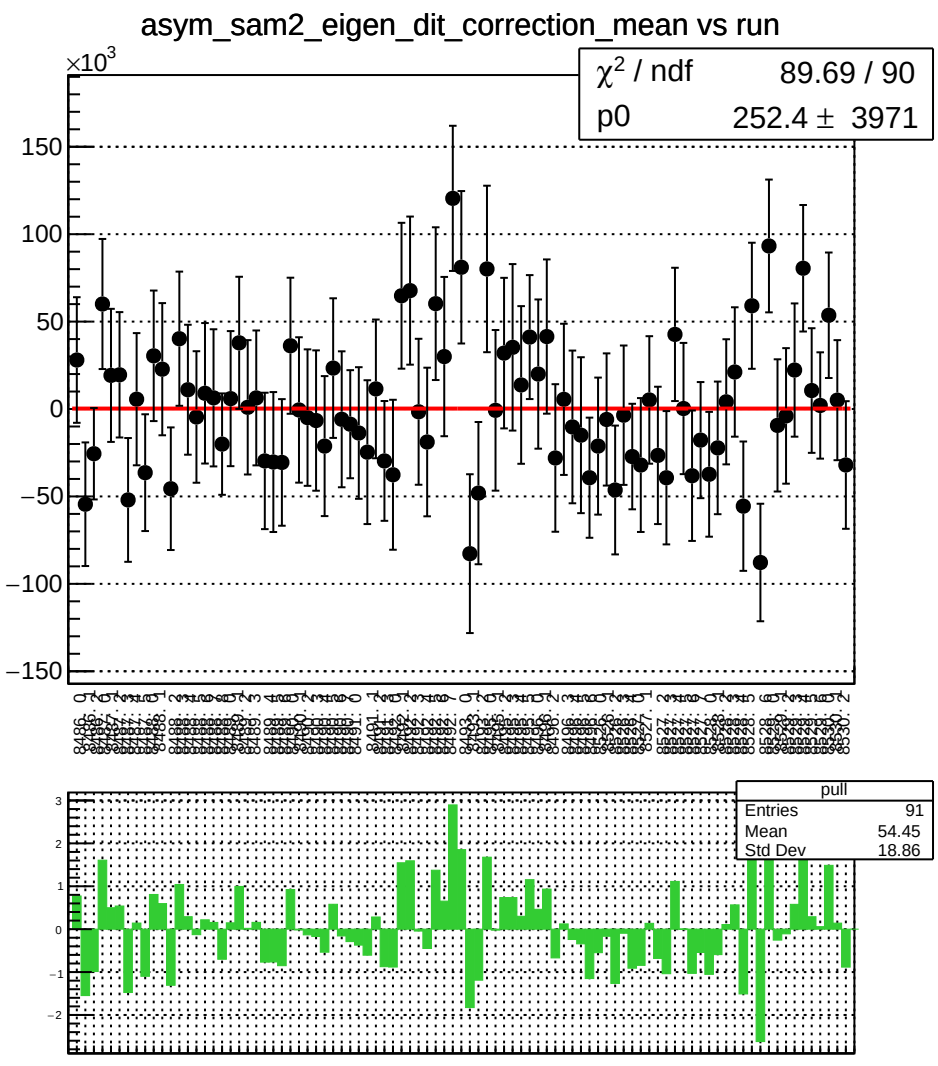

pull1D
Entries 91
Mean 0.03137
Std Dev 0.9923
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

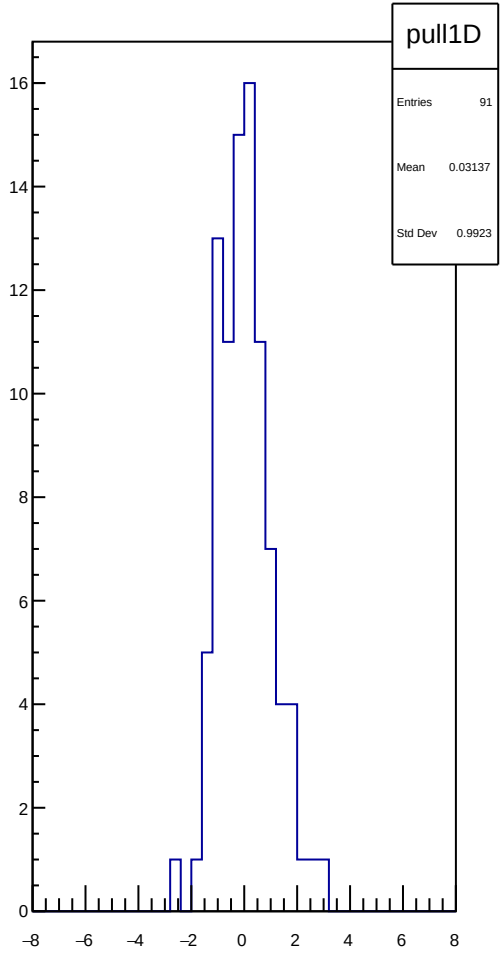

asym_sam2_dit_correction_rms vs run
χ² / ndf 9699 / 90
p0 3704 ± 2.808
4600
4400
4200
4000
3800
3600
3400
3200

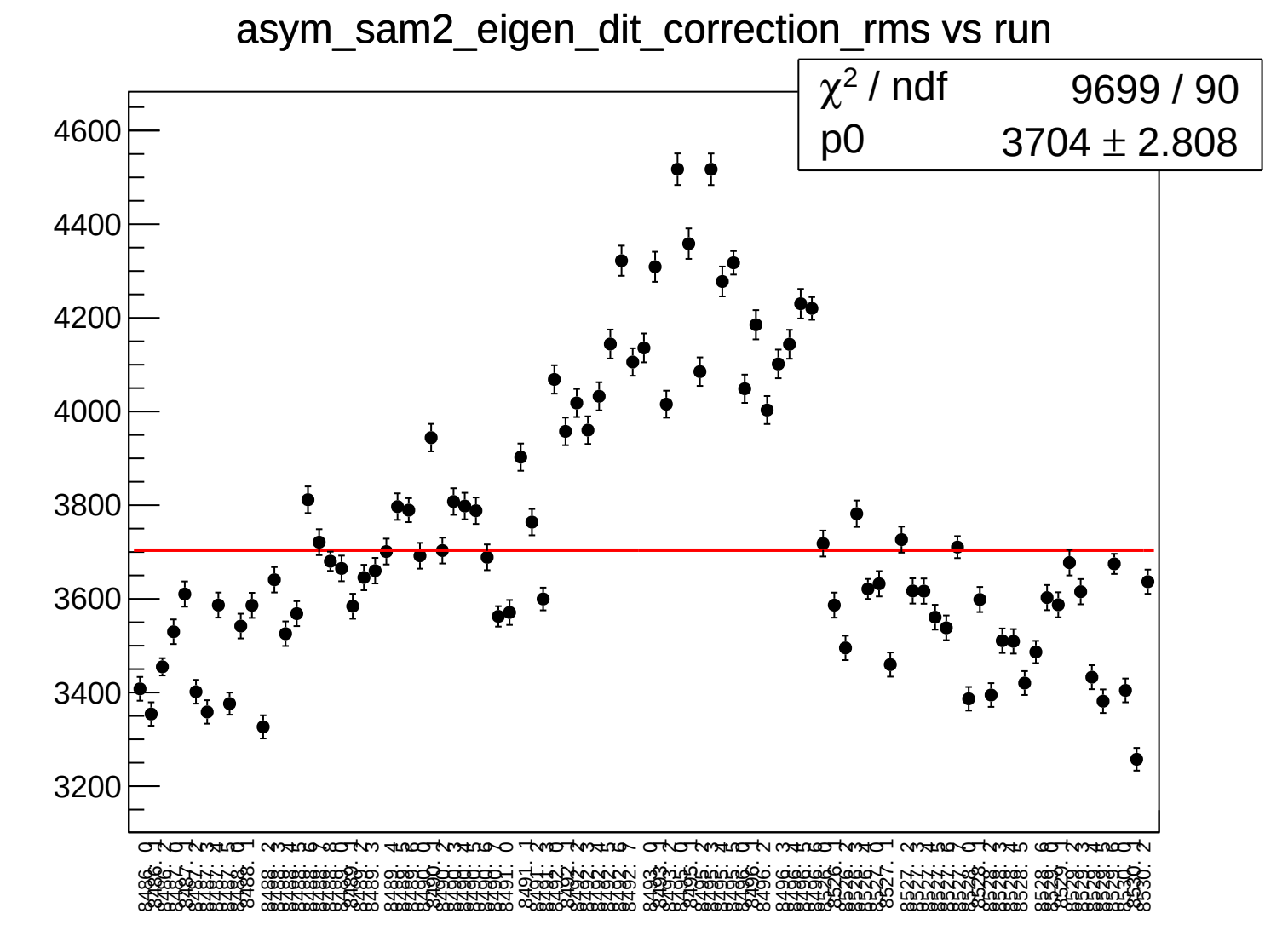

eigen_dit_asym_sam2_mean vs run
χ^2 / ndf 104 / 90
p0 168.9 ± 314.2
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −21.44
Std Dev 0
2
1
0
−1
−2

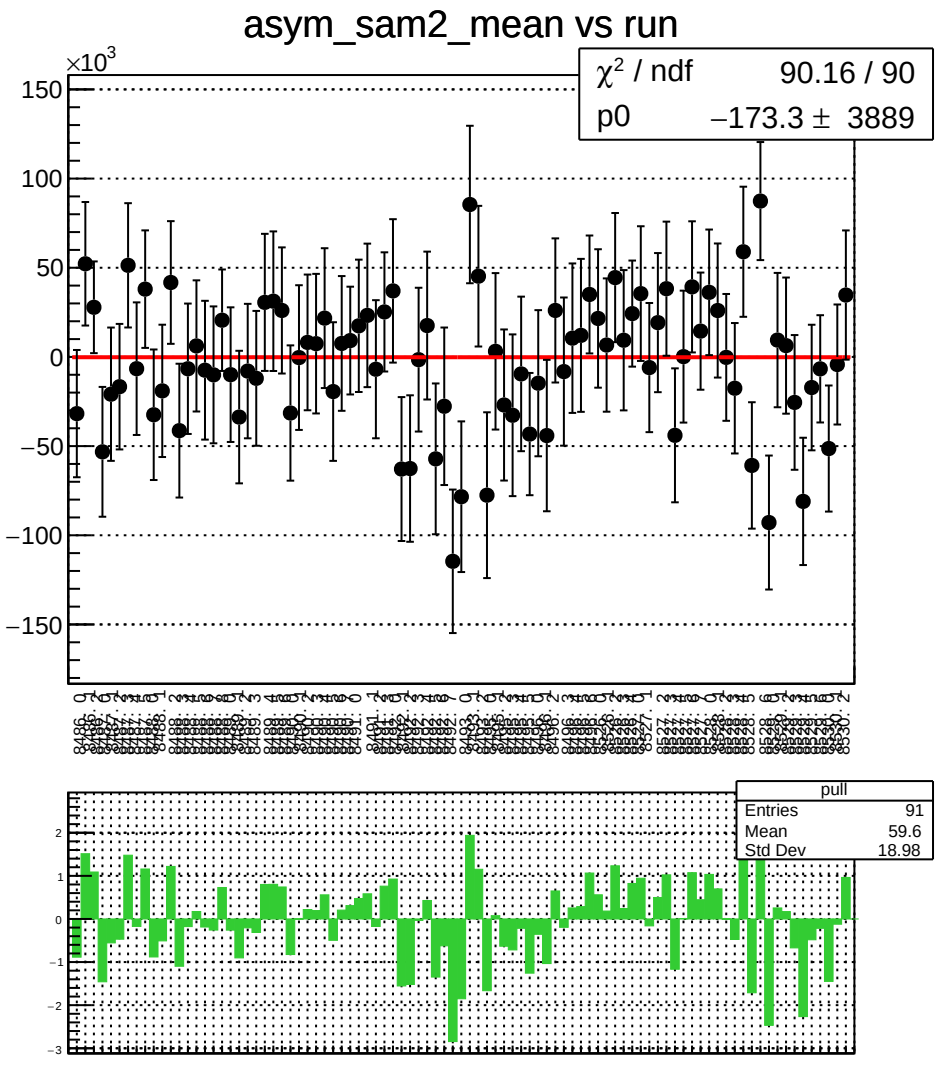

pull1D
Entries 91
Mean 0.02133
Std Dev 1.069
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

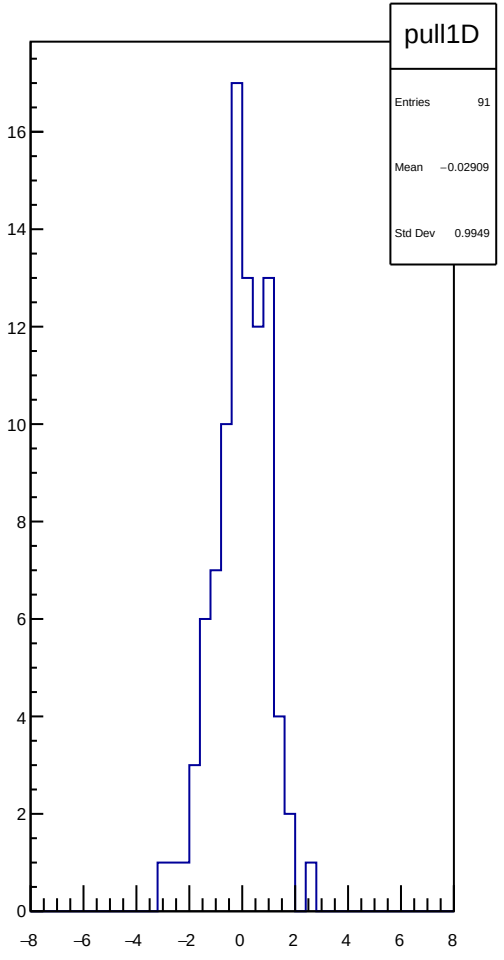

eigen_dit_asym_sam2_rms vs run
χ^2 / ndf 1.496e+04 / 90
p0 292.6 ± 0.2222
450
400
350
300
250

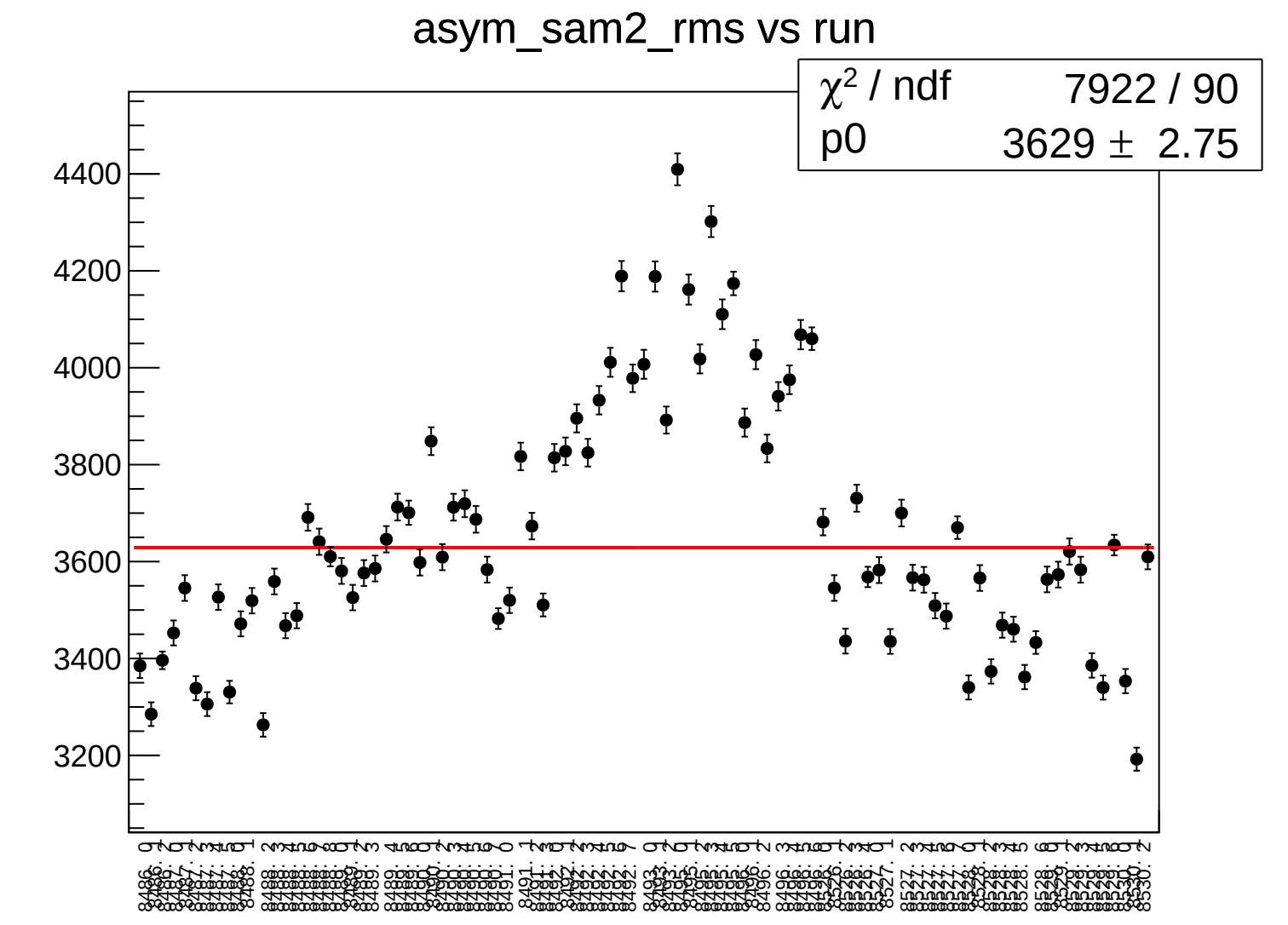

asym_sam2_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 89.69 / 90
p0 252.4 ± 3971
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean 54.45
Std Dev 18.86
3
2
1
0
−1
−2

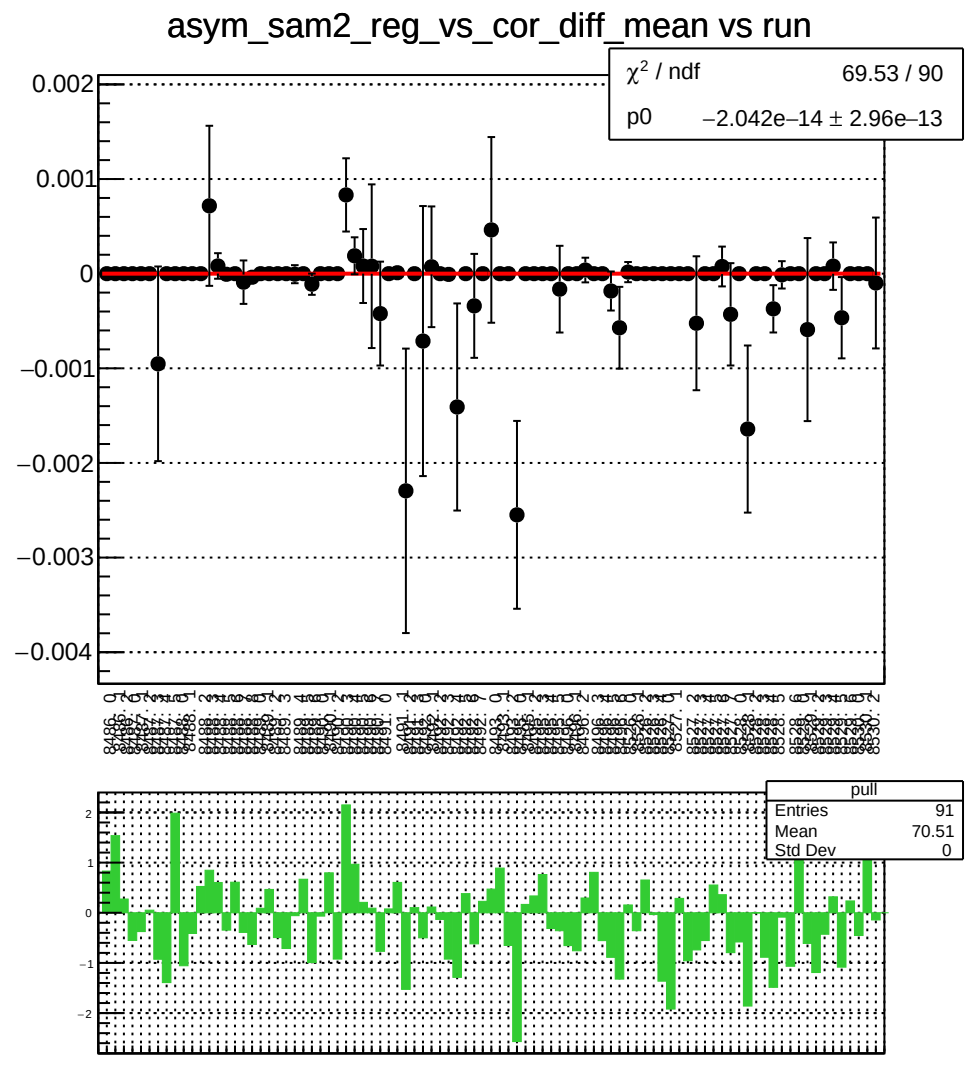

pull1D
Entries 91
Mean 0.03137
Std Dev 0.9923
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

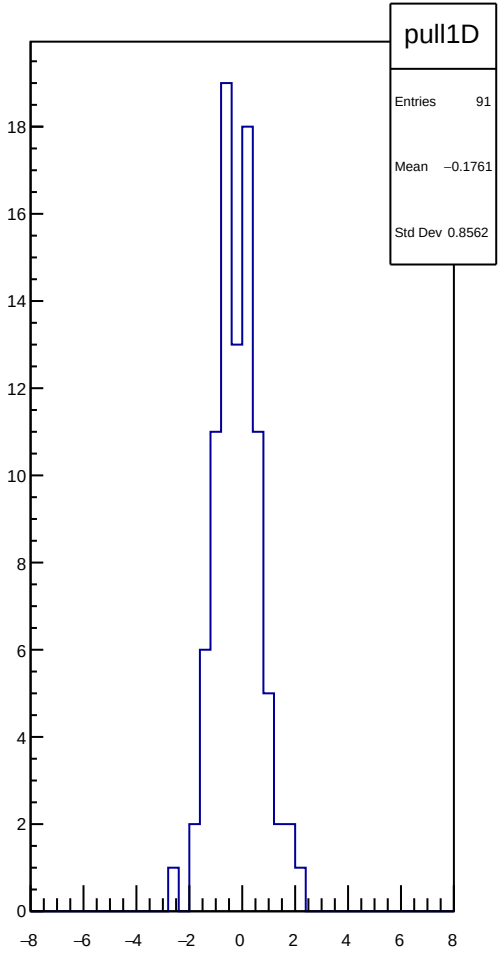

asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 9699 / 90
p0 3704 ± 2.808
4600
4400
4200
4000
3800
3600
3400
3200

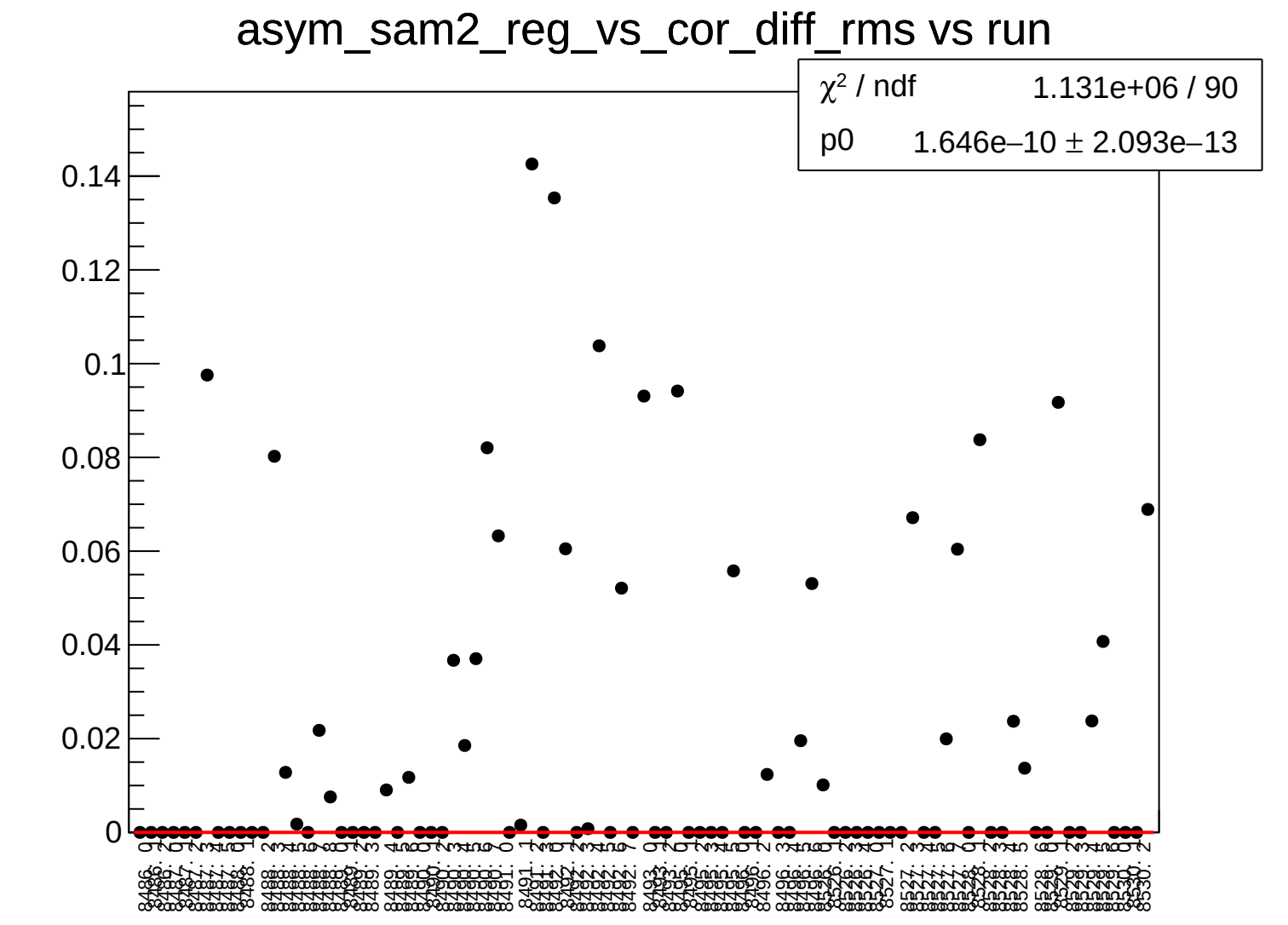

asym_sam2_mean vs run
×10^3
χ² / ndf 90.16 / 90
p0 −173.3 ± 3889
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean 59.6
Std Dev 18.98
2
1
0
−1
−2
−3

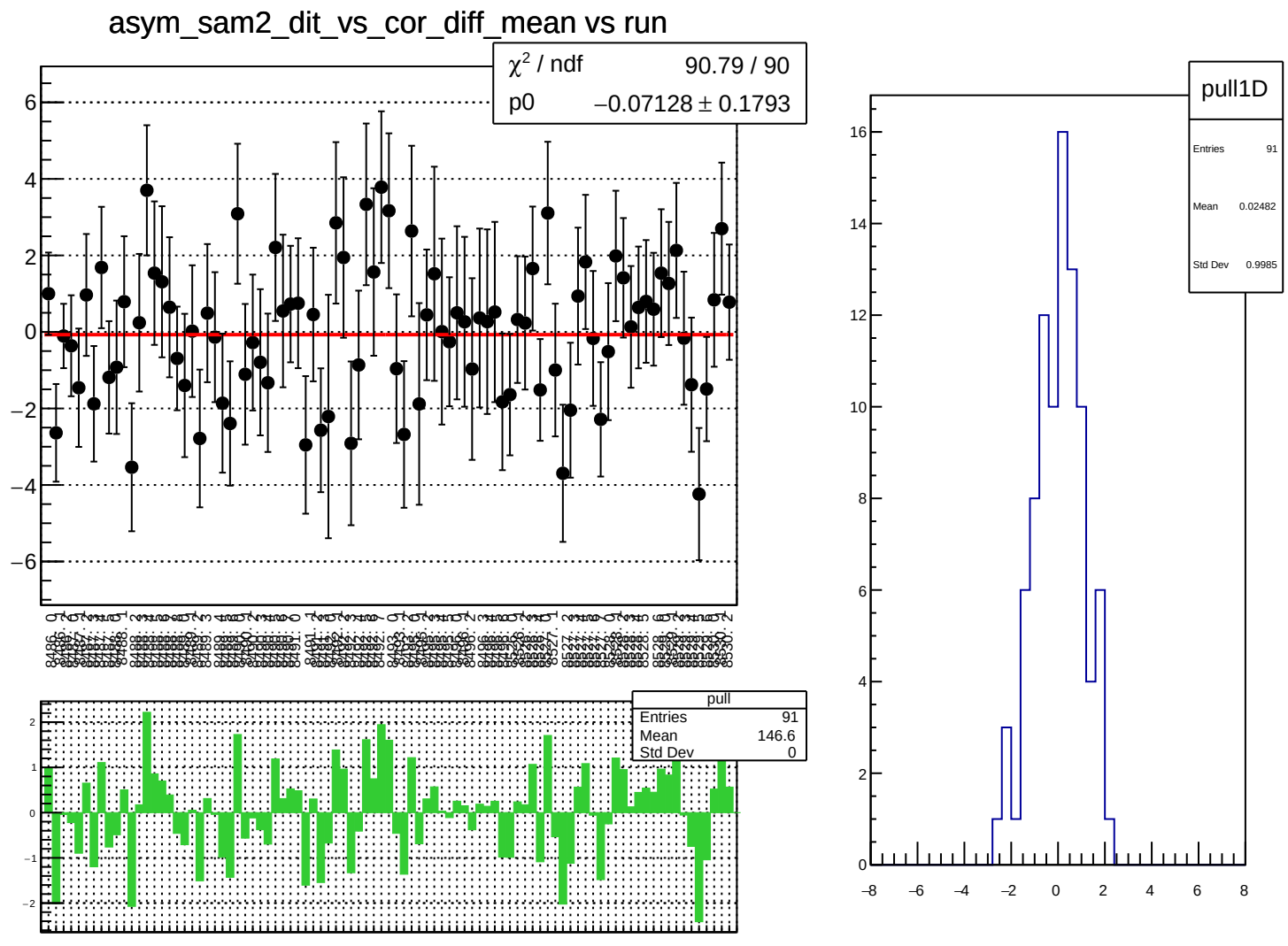

pull1D
Entries 91
Mean −0.02909
Std Dev 0.9949
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

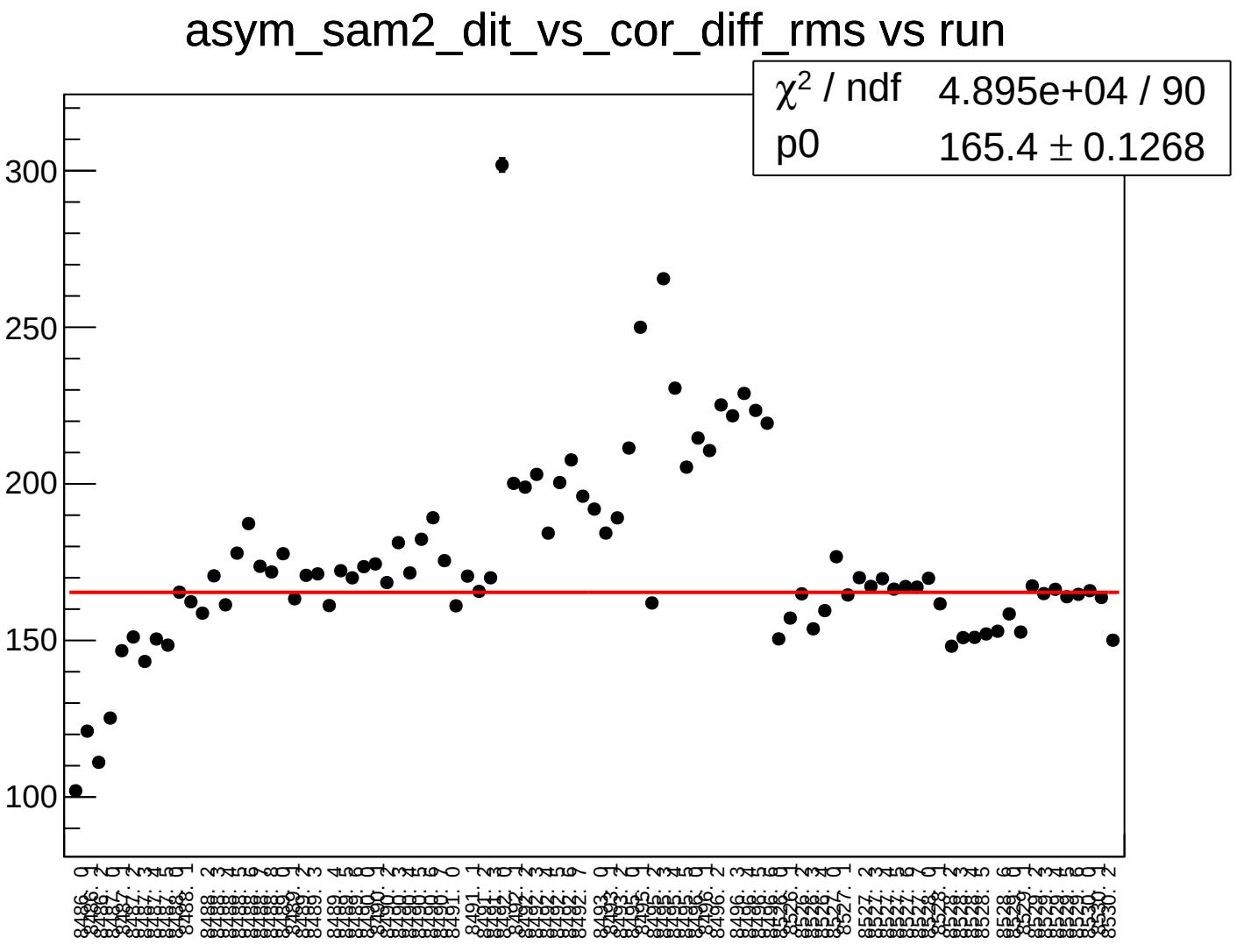

asym_sam2_rms vs run
χ² / ndf 7922 / 90
p0 3629 ± 2.75
4400
4200
4000
3800
3600
3400
3200

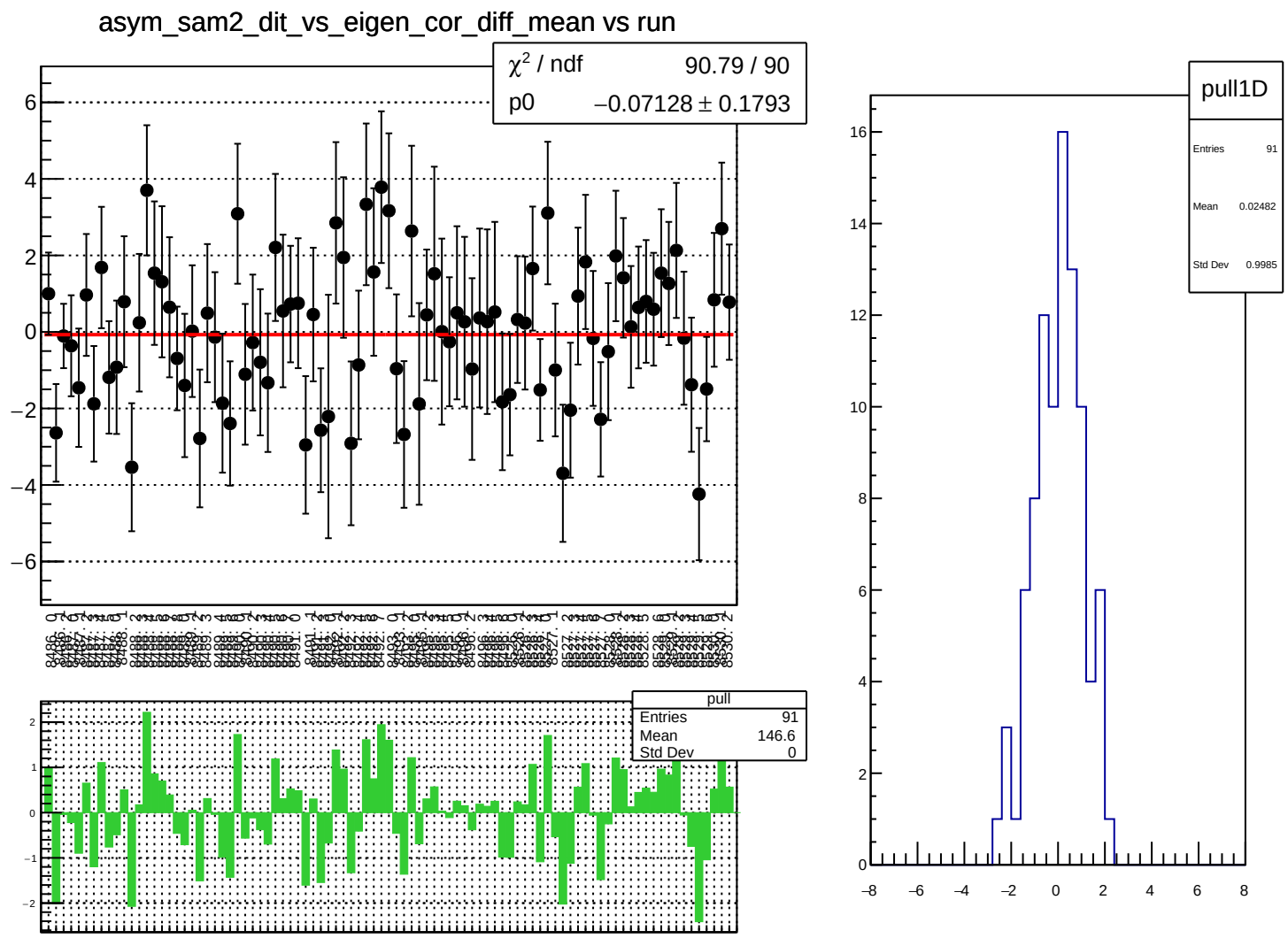

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 69.53 / 90
p0 −2.042e−14 ± 2.96e−13
0.002
0.001
0
−0.001
−0.002
−0.003
−0.004
pull
Entries 91
Mean 70.51
Std Dev 0

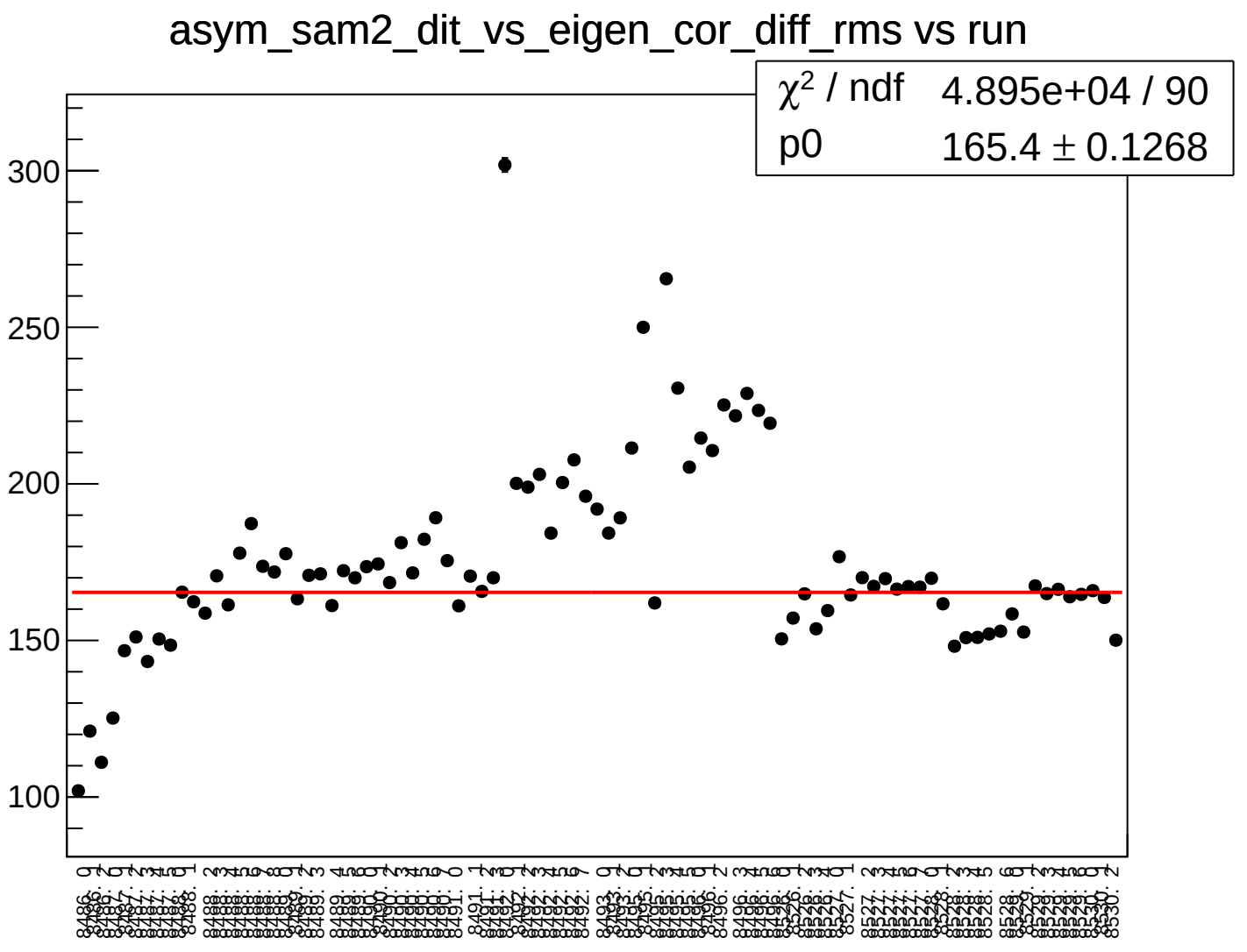

pull1D
Entries 91
Mean −0.1761
Std Dev 0.8562
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

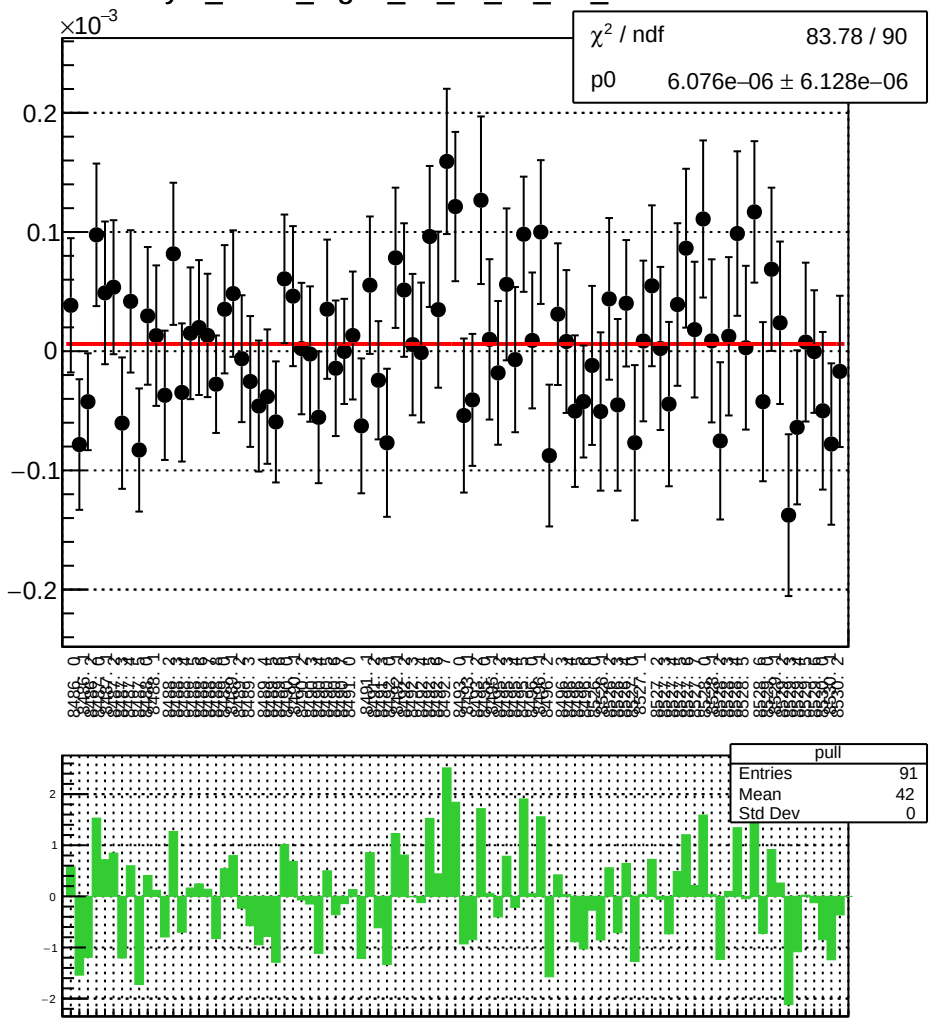

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.131e+06 / 90
p0 1.646e−10 ± 2.093e−13
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

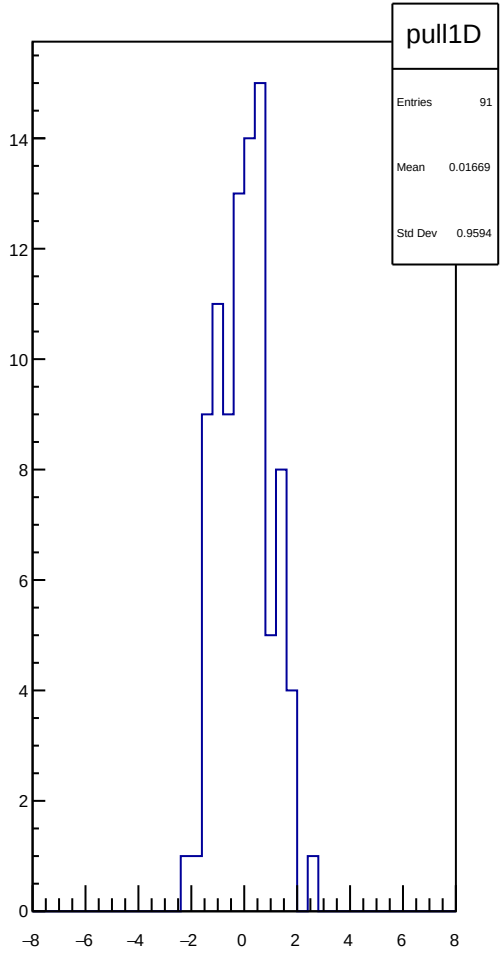

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 90.79 / 90
p0 −0.07128 ± 0.1793
pull
Entries 91
Mean 146.6
Std Dev 0
pull1D
Entries 91
Mean 0.02482
Std Dev 0.9985

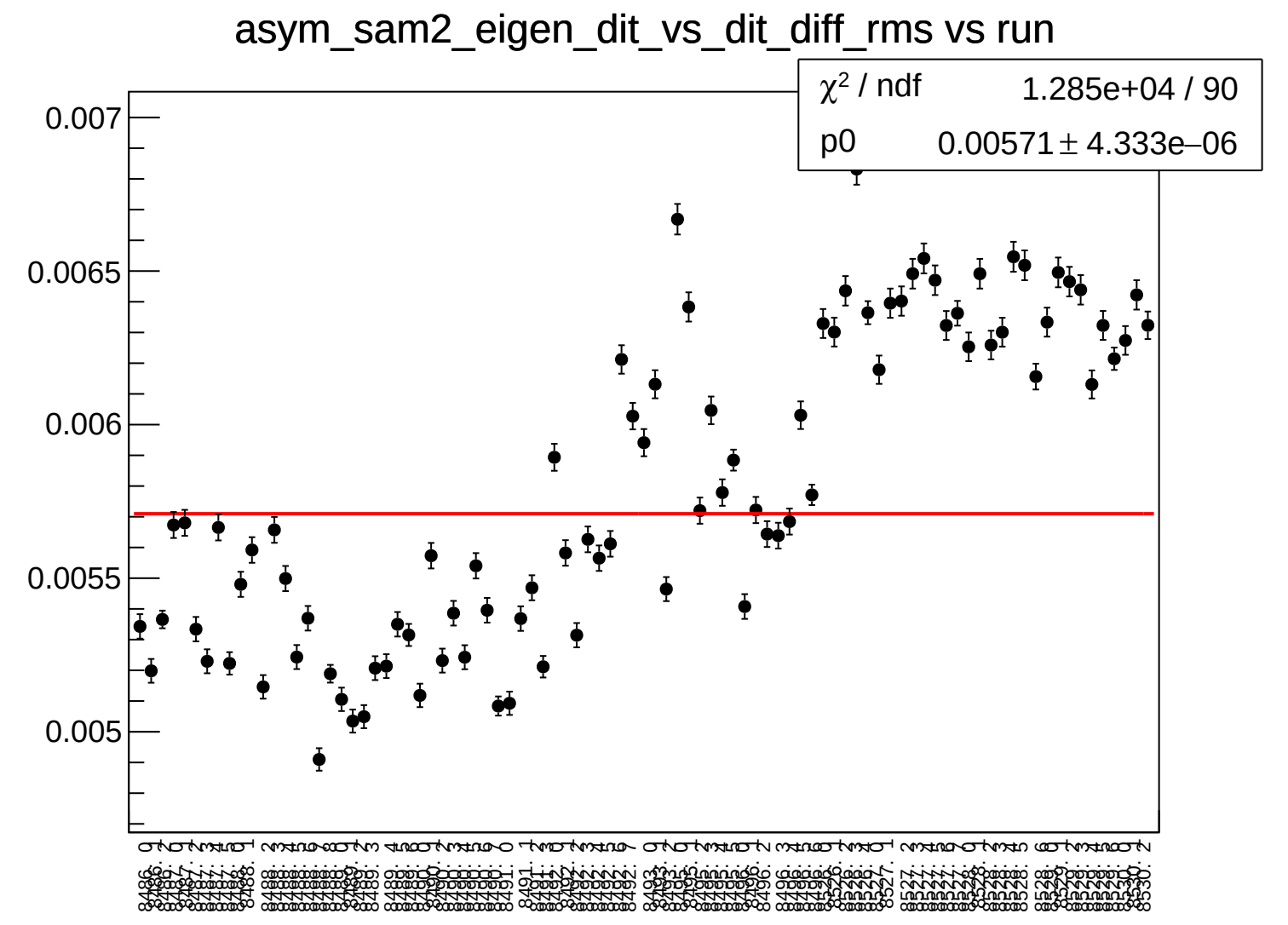

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 4.895e+04 / 90
p0 165.4 ± 0.1268
300
250
200
150
100

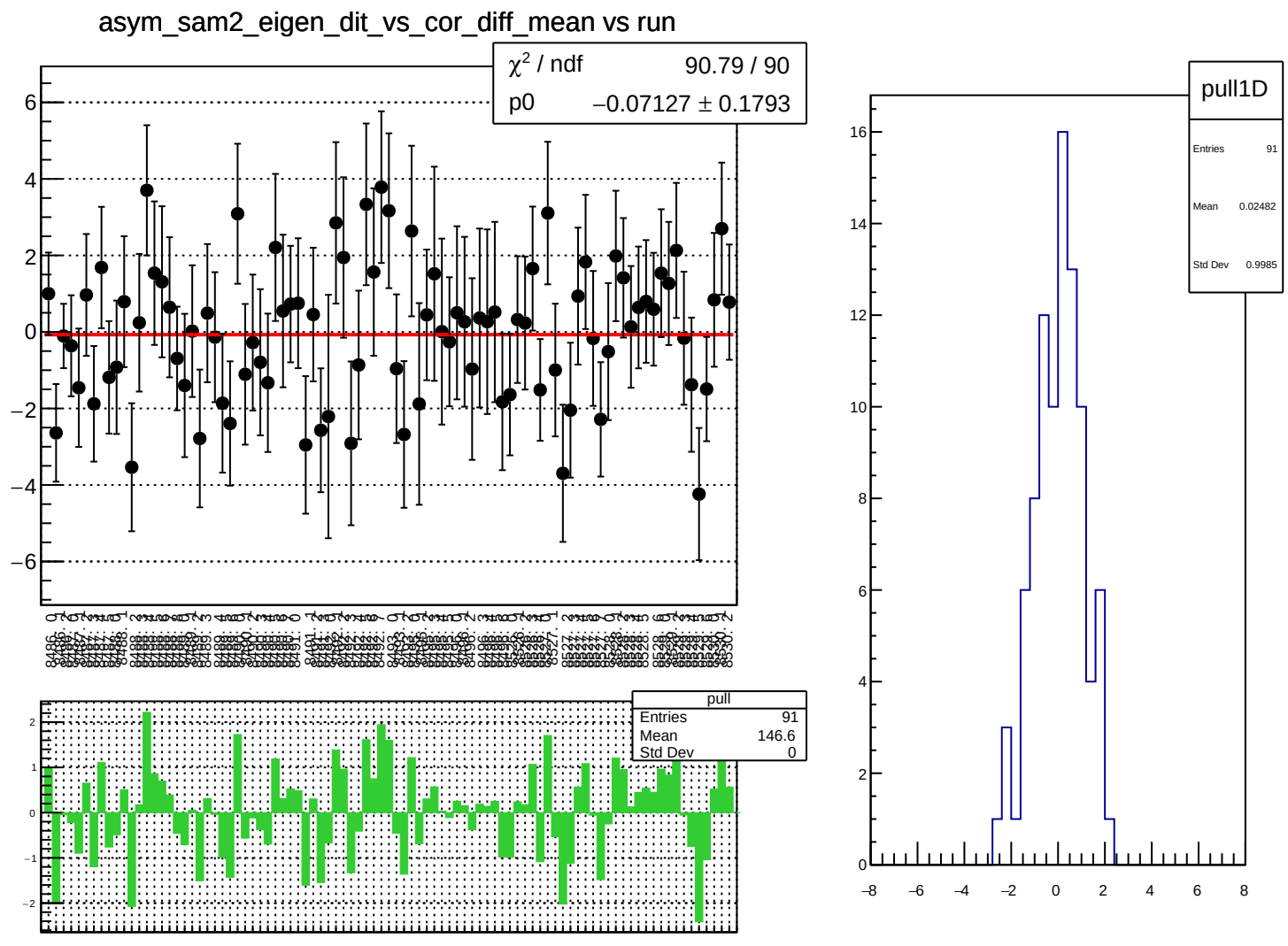

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.79 / 90
p0 −0.07128 ± 0.1793
pull
Entries 91
Mean 146.6
Std Dev 0
pull1D
Entries 91
Mean 0.02482
Std Dev 0.9985

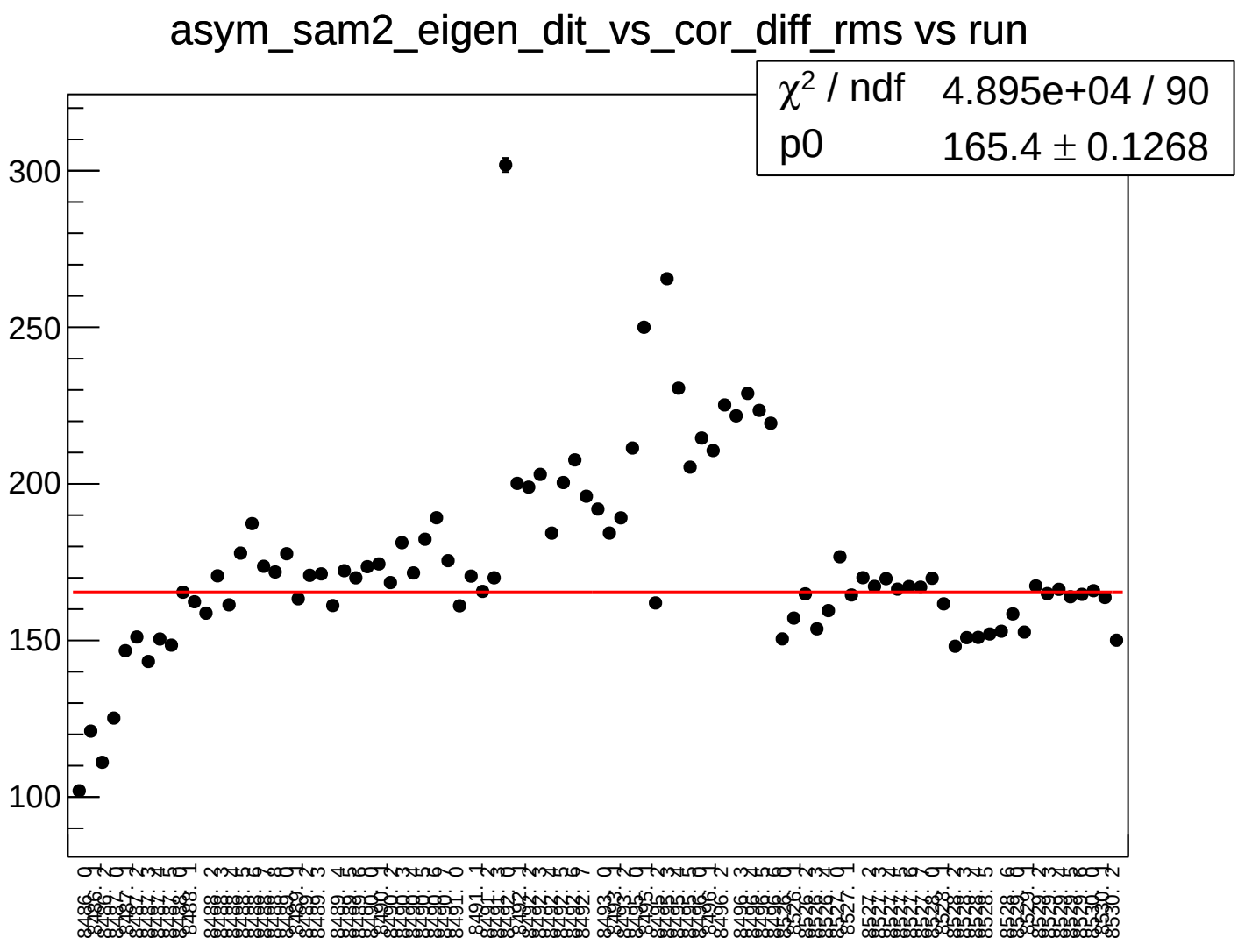

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.895e+04 / 90
p0 165.4 ± 0.1268
300
250
200
150
100

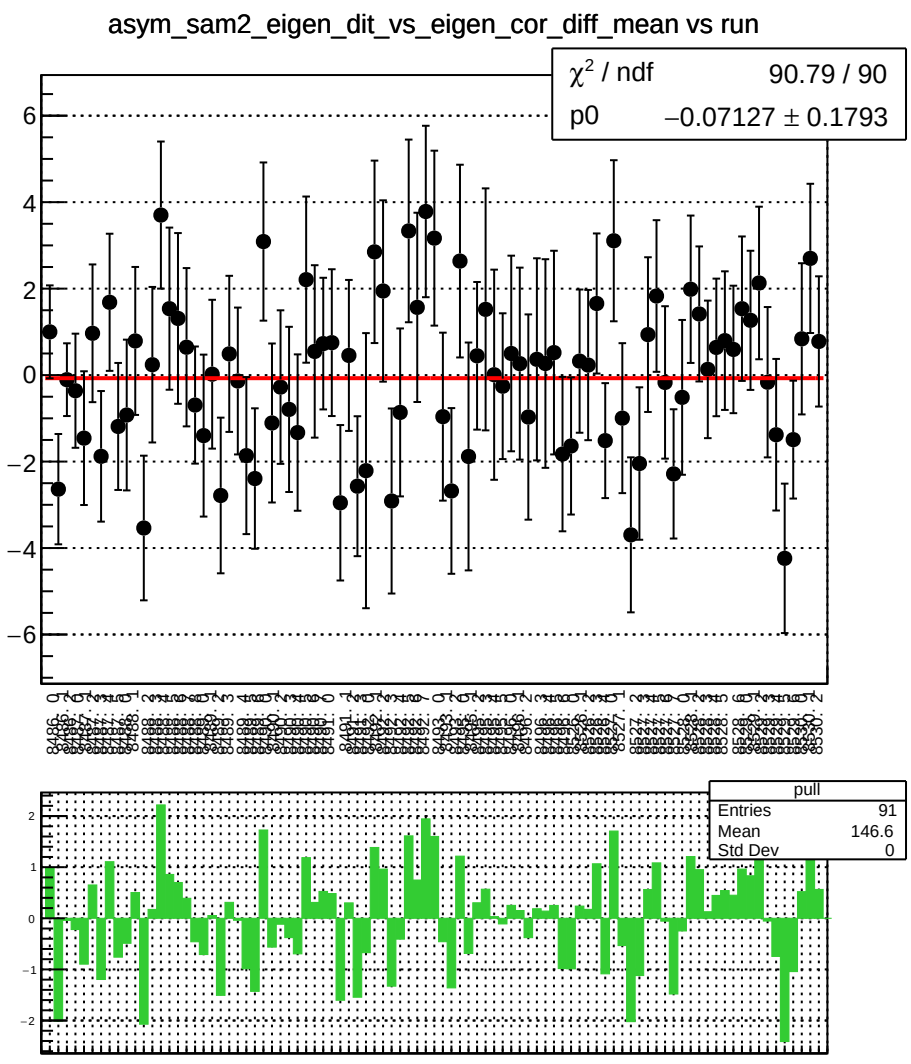

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.78 / 90
p0 6.076e−06 ± 6.128e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 91
Mean 42
Std Dev 0
2
1
0
−1
−2

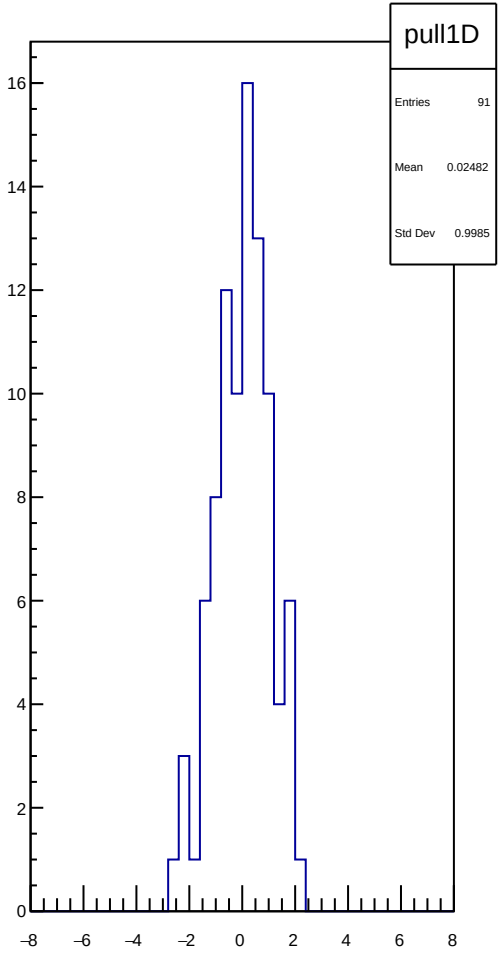

pull1D
Entries 91
Mean 0.01669
Std Dev 0.9594
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

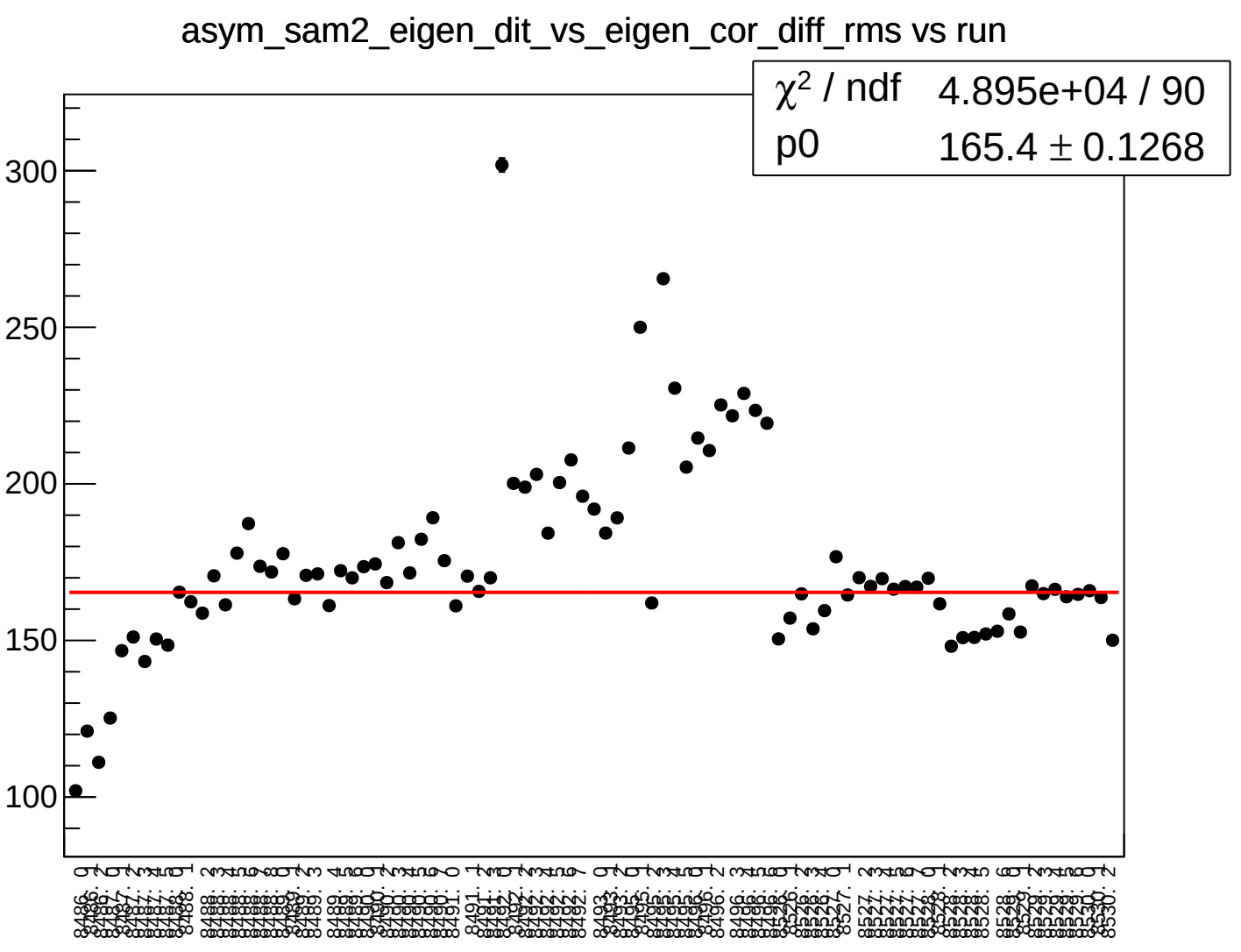

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.285e+04 / 90
p0 0.00571 ± 4.333e–06
0.007
0.0065
0.006
0.0055
0.005

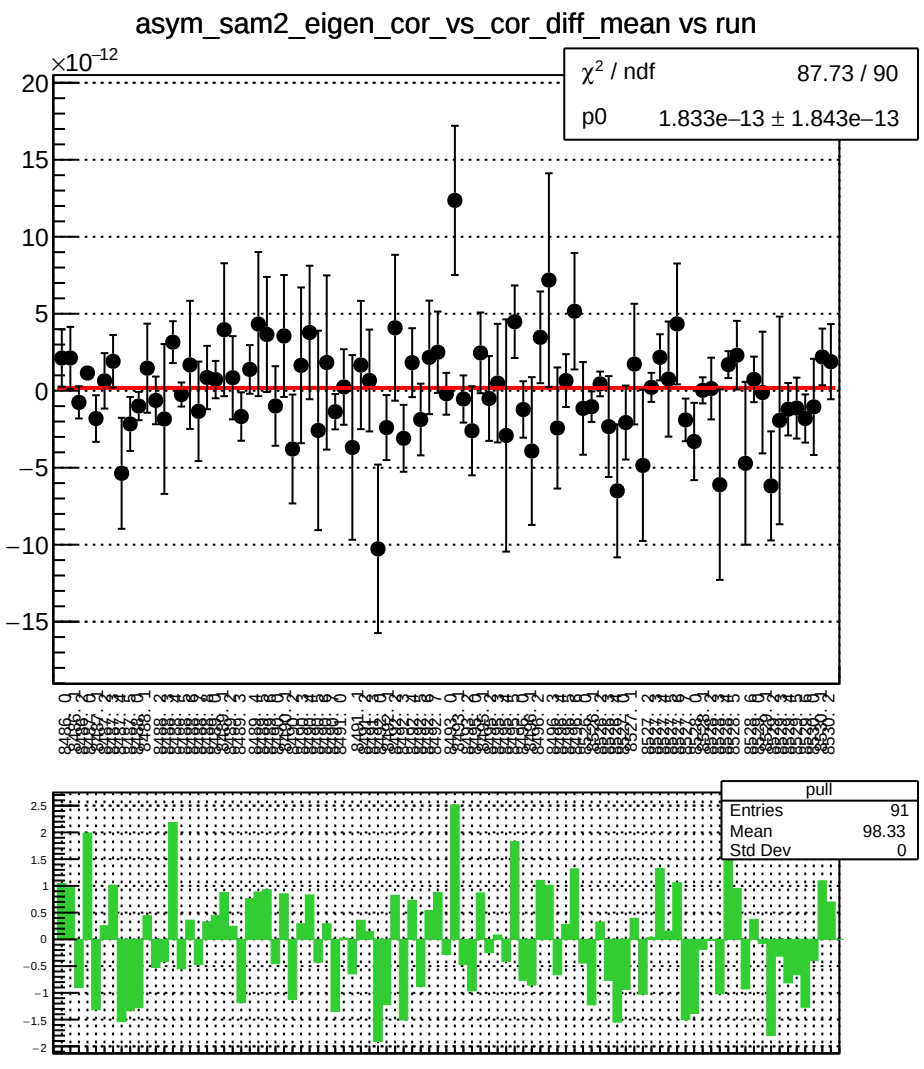

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.79 / 90
p0 −0.07127 ± 0.1793
pull
Entries 91
Mean 146.6
Std Dev 0
pull1D
Entries 91
Mean 0.02482
Std Dev 0.9985

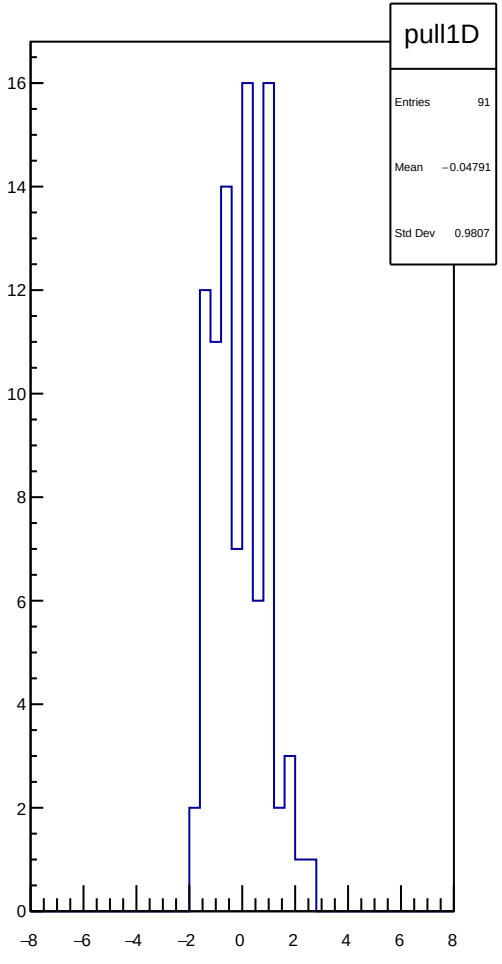

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.895e+04 / 90
p0 165.4 ± 0.1268
300
250
200
150
100

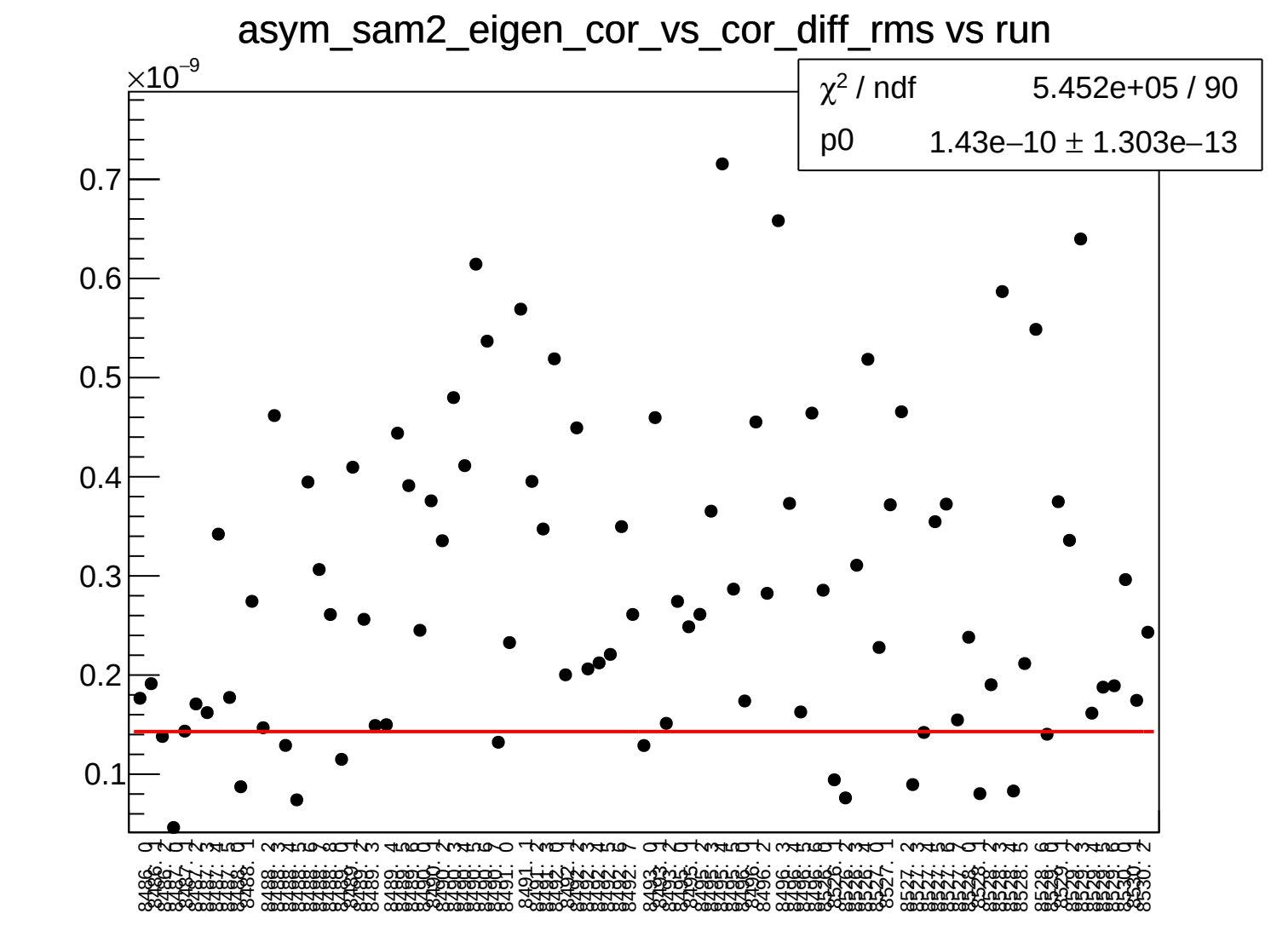

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.79 / 90
p0 −0.07127 ± 0.1793
pull
Entries 91
Mean 146.6
Std Dev 0

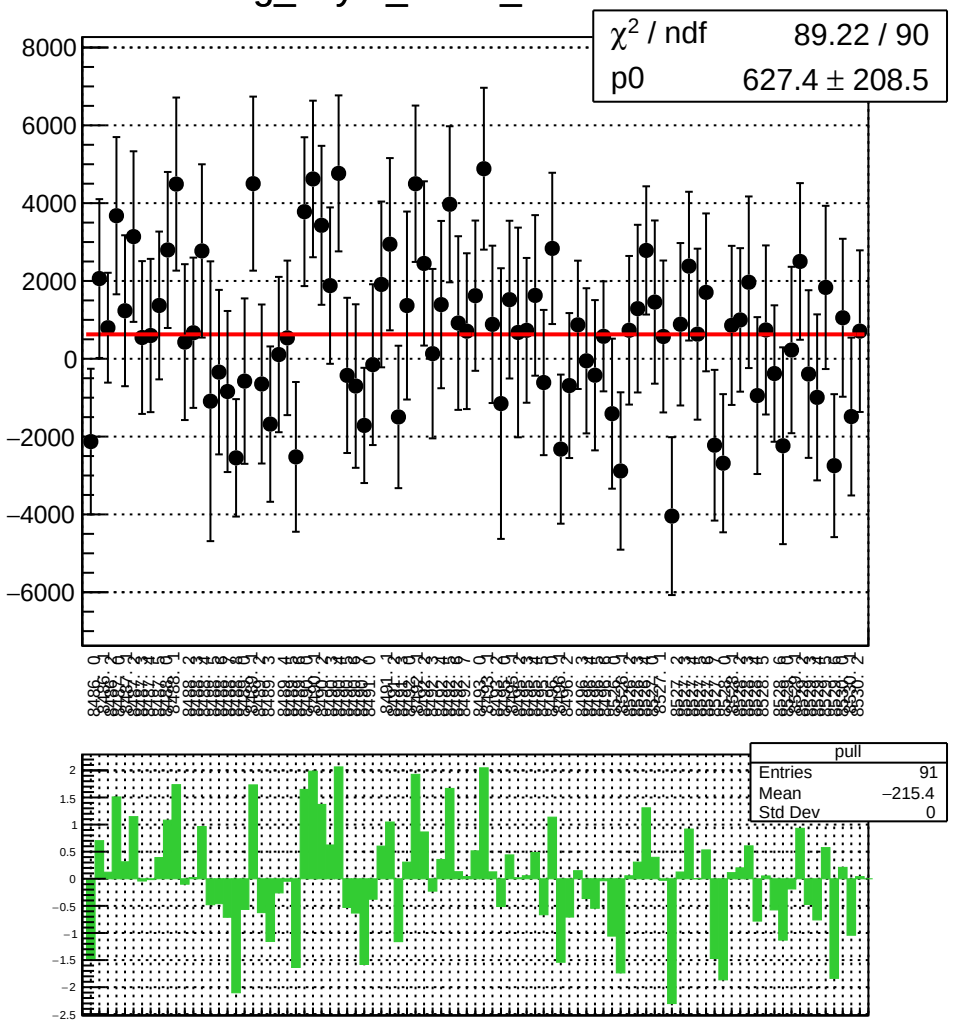

pull1D
Entries 91
Mean 0.02482
Std Dev 0.9985

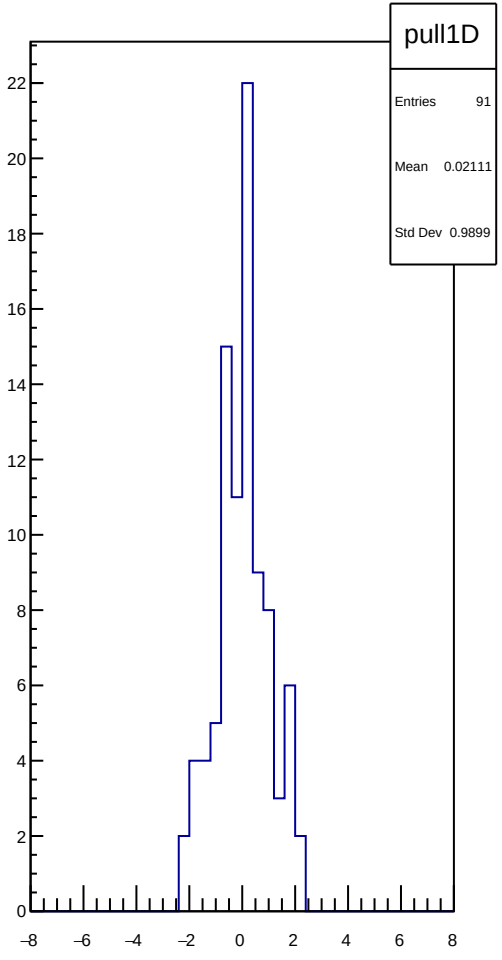

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.895e+04 / 90
p0 165.4 ± 0.1268
300
250
200
150
100

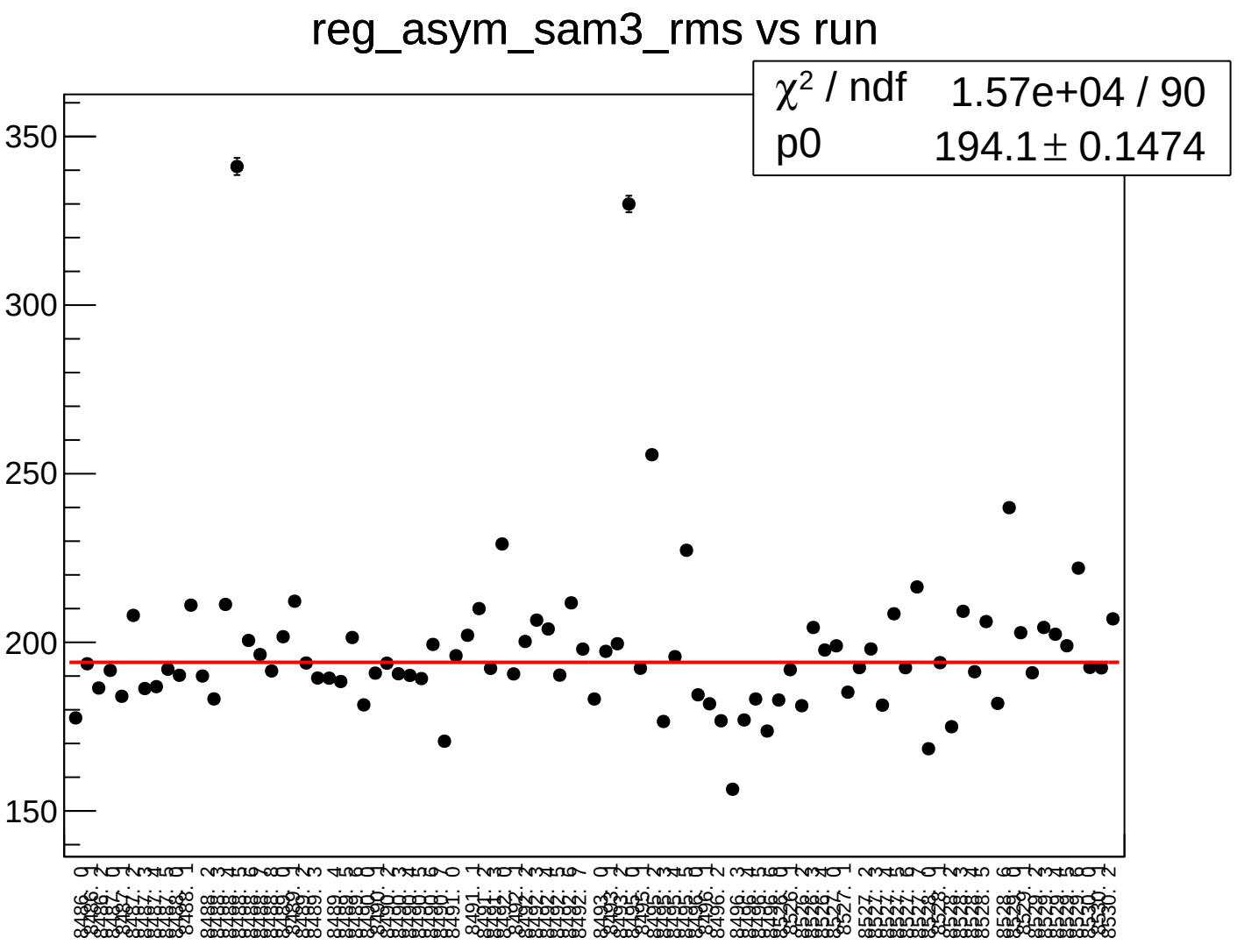

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.73 / 90
p0 1.833e−13 ± 1.843e−13
pull
Entries 91
Mean 98.33
Std Dev 0

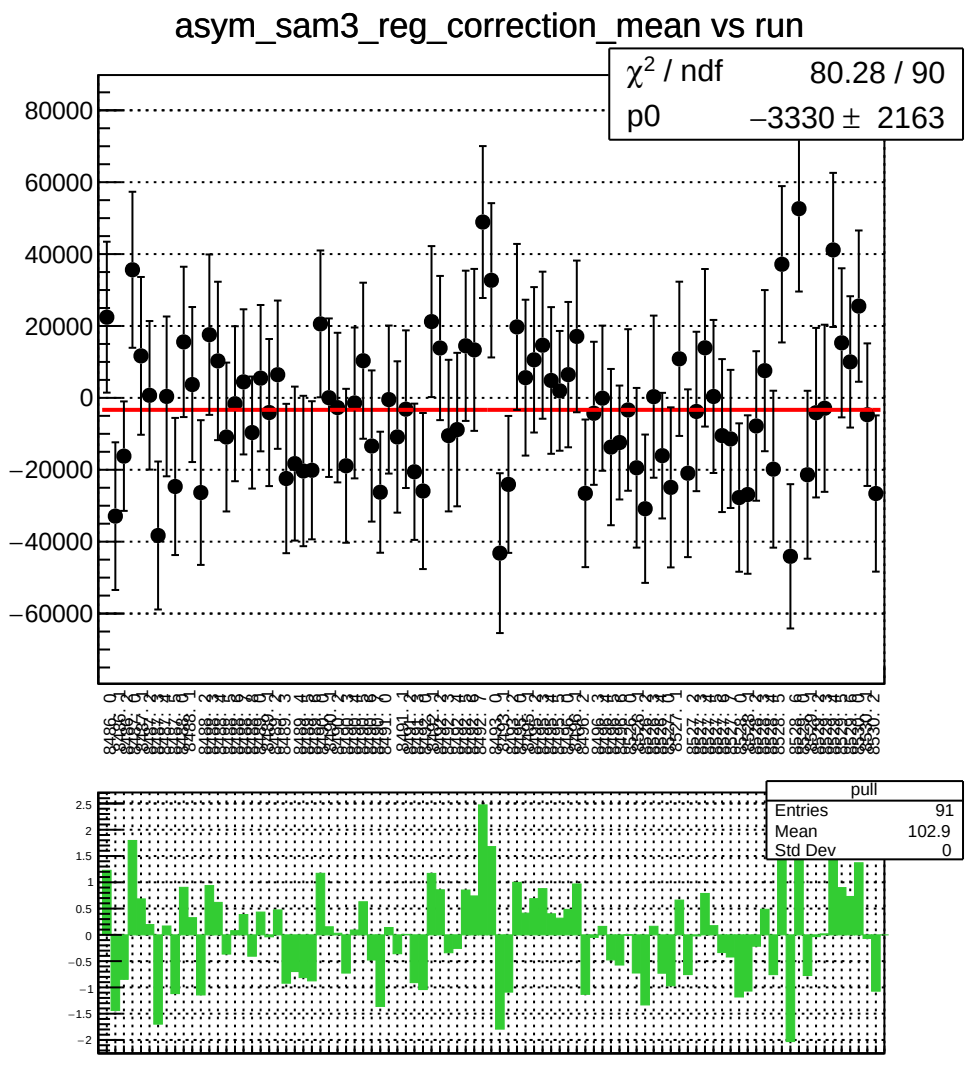

pull1D
Entries 91
Mean −0.04791
Std Dev 0.9807

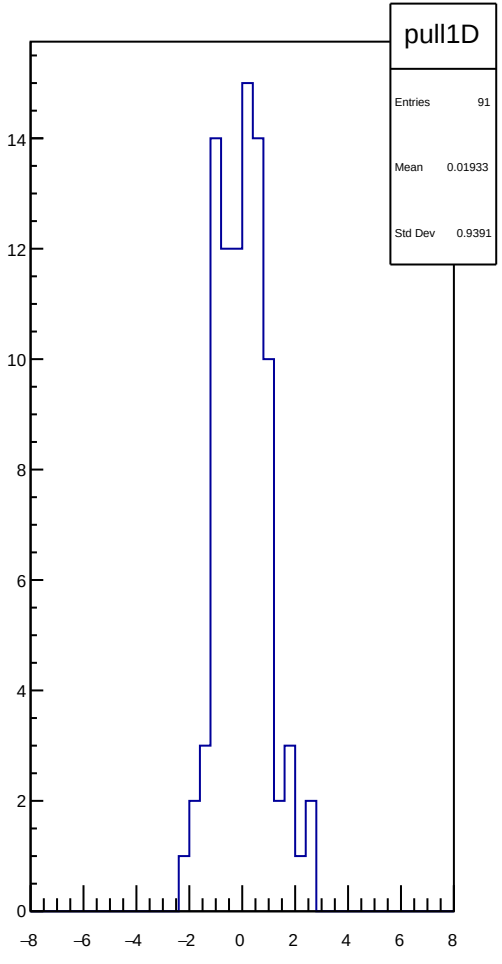

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.452e+05 / 90
p0 1.43e−10 ± 1.303e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1

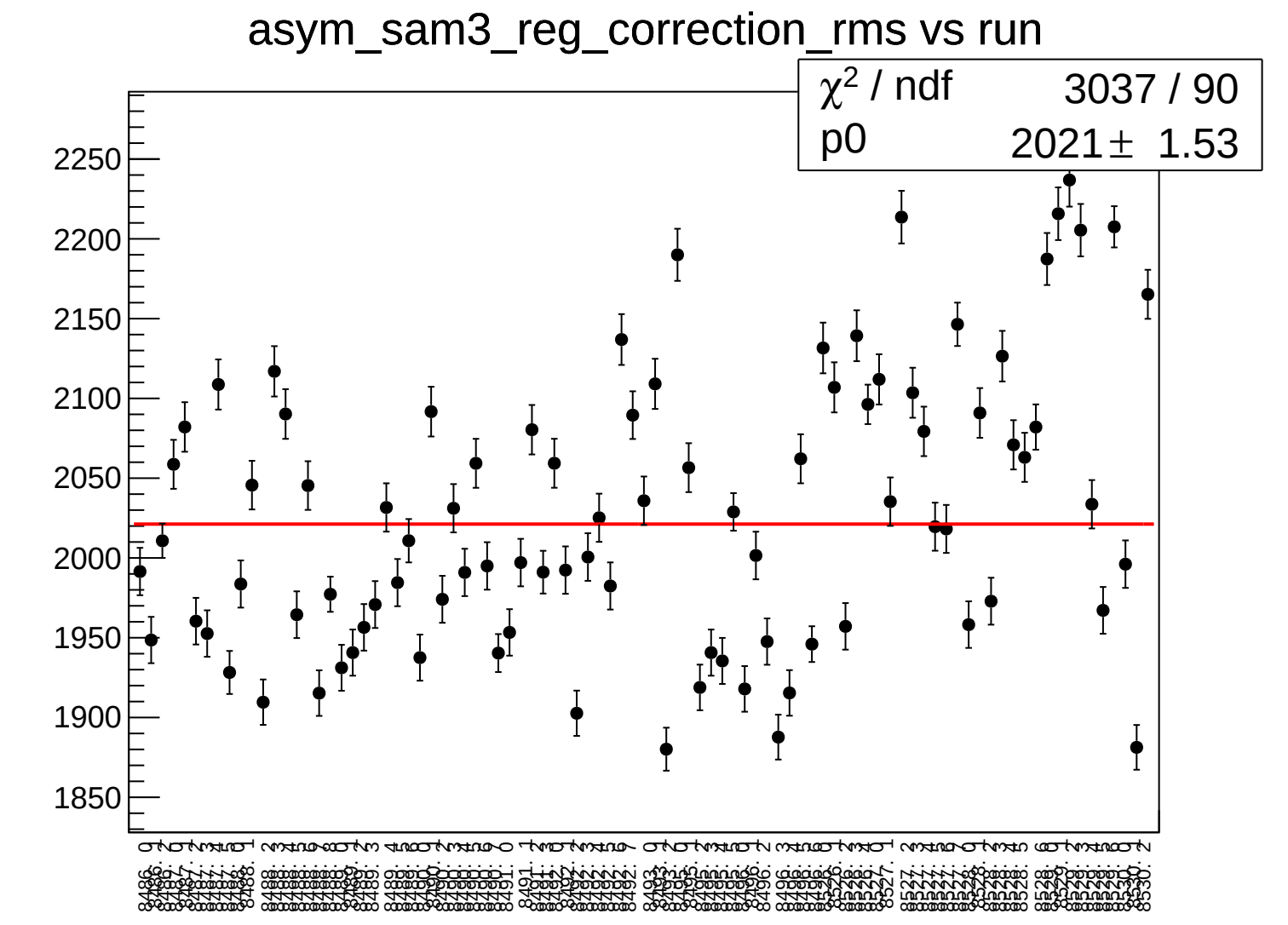

reg_asym_sam3_mean vs run
χ² / ndf 89.22 / 90
p0 627.4 ± 208.5
pull
Entries 91
Mean −215.4
Std Dev 0

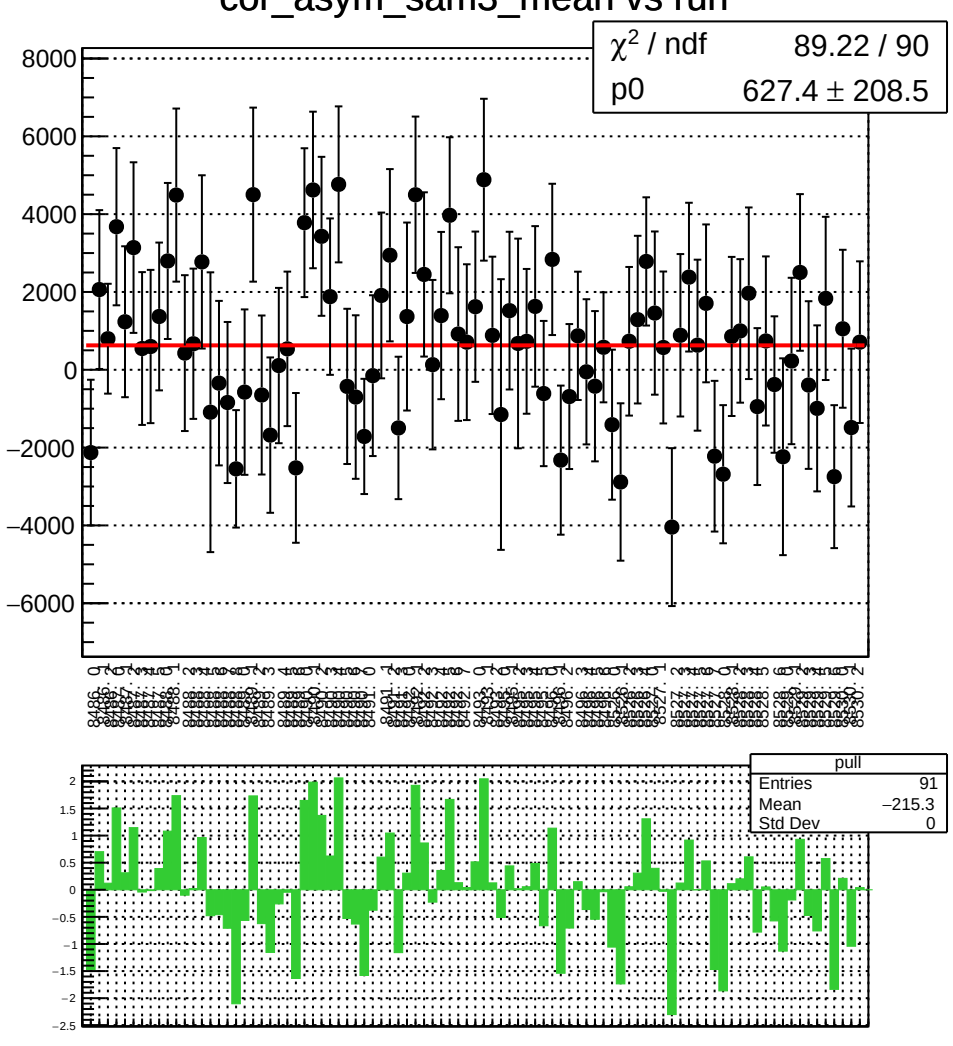

pull1D
Entries 91
Mean 0.02111
Std Dev 0.9899

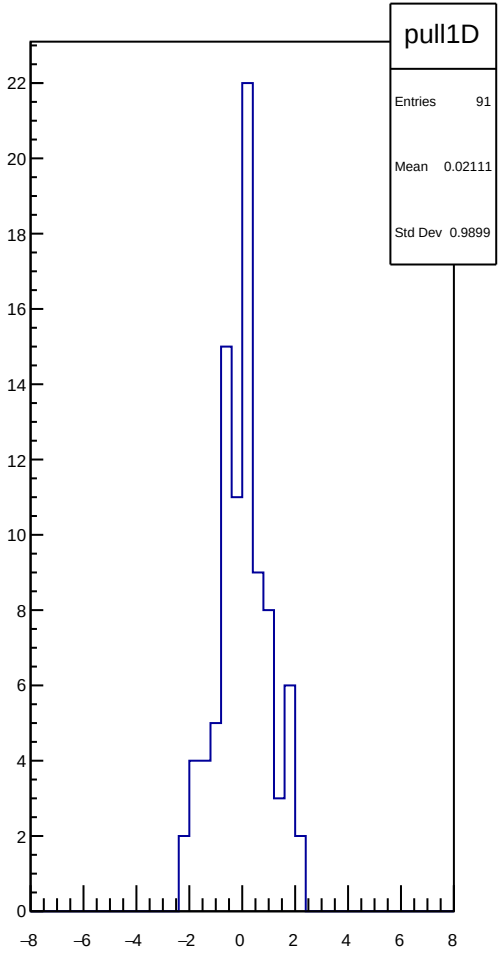

reg_asym_sam3_rms vs run
χ² / ndf 1.57e+04 / 90
p0 194.1 ± 0.1474
350
300
250
200
150

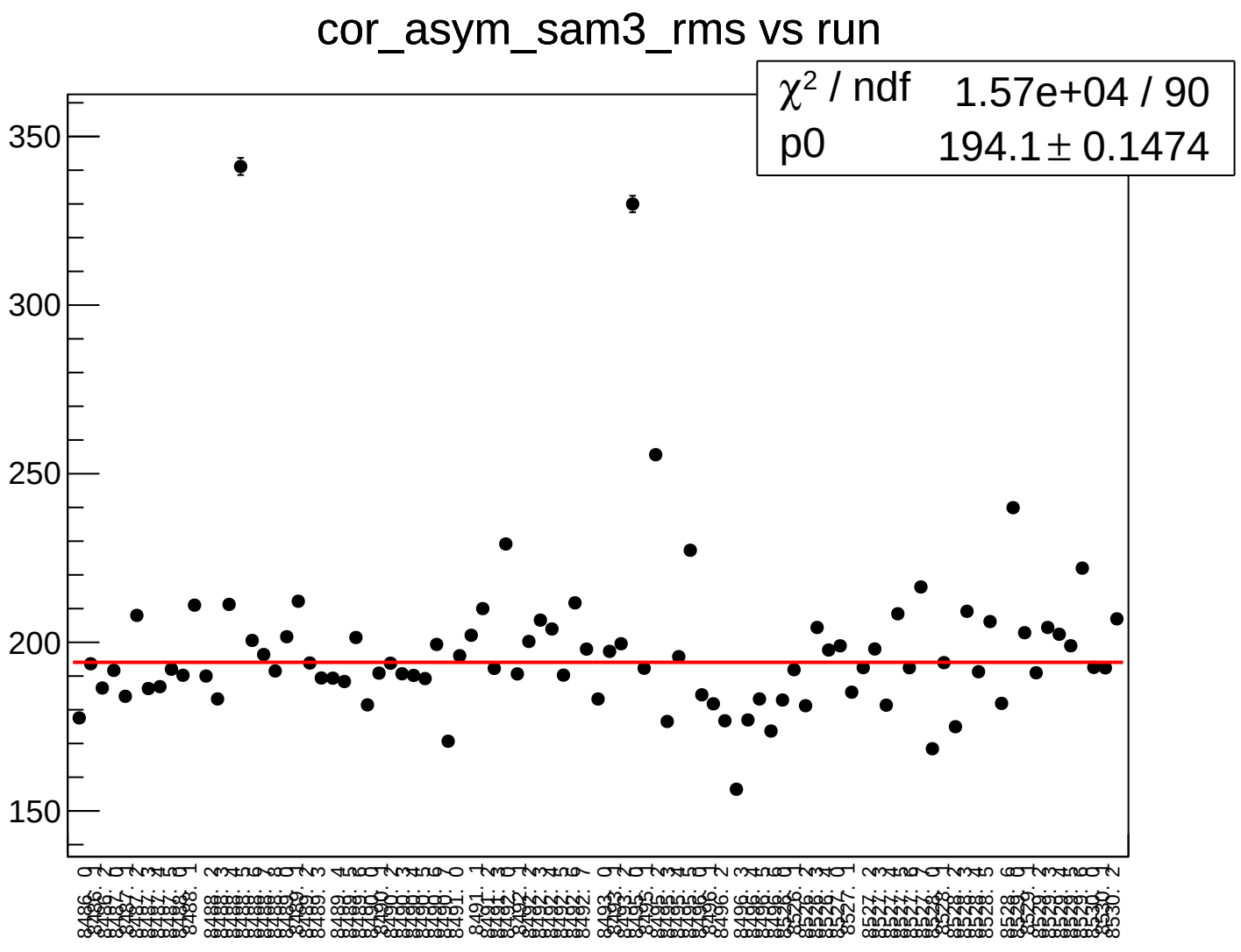

asym_sam3_reg_correction_mean vs run
χ² / ndf 80.28 / 90
p0 −3330 ± 2163
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 102.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

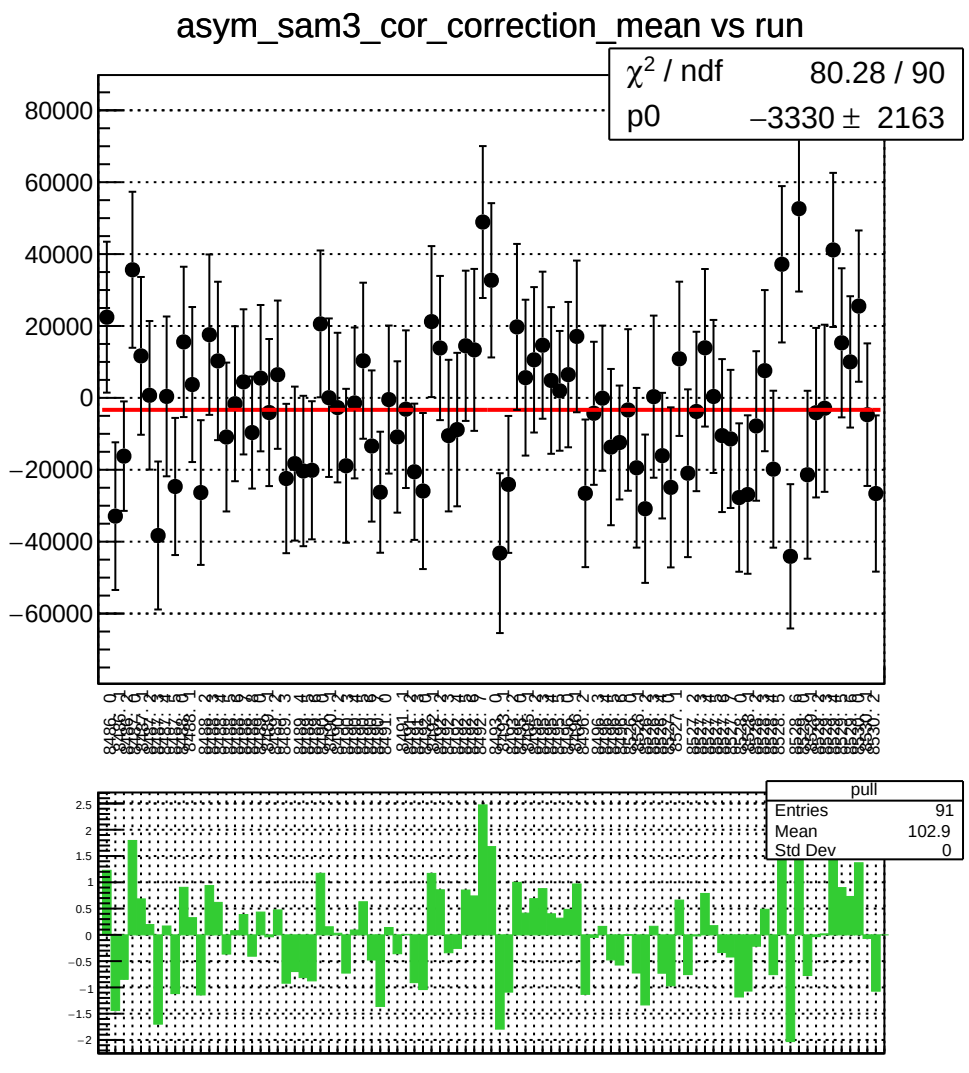

pull1D
Entries 91
Mean 0.01933
Std Dev 0.9391
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

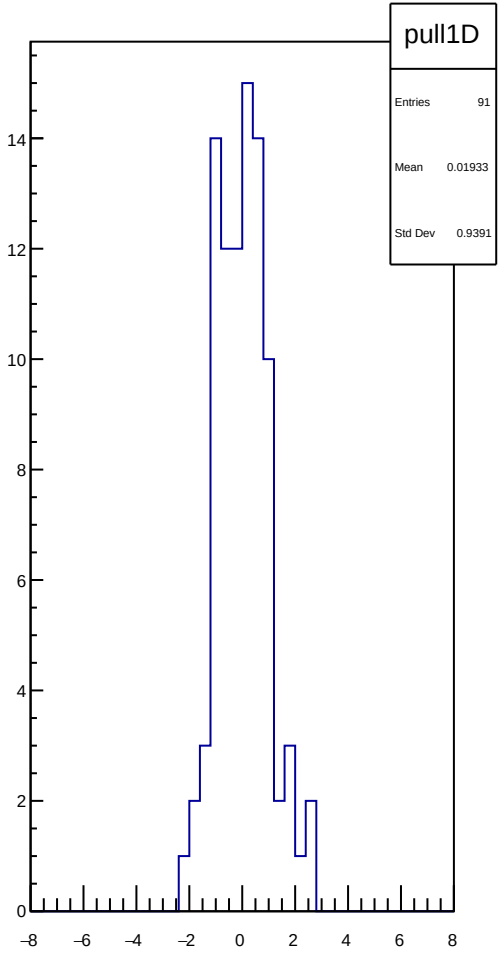

asym_sam3_reg_correction_rms vs run
χ² / ndf 3037 / 90
p0 2021 ± 1.53
2250
2200
2150
2100
2050
2000
1950
1900
1850

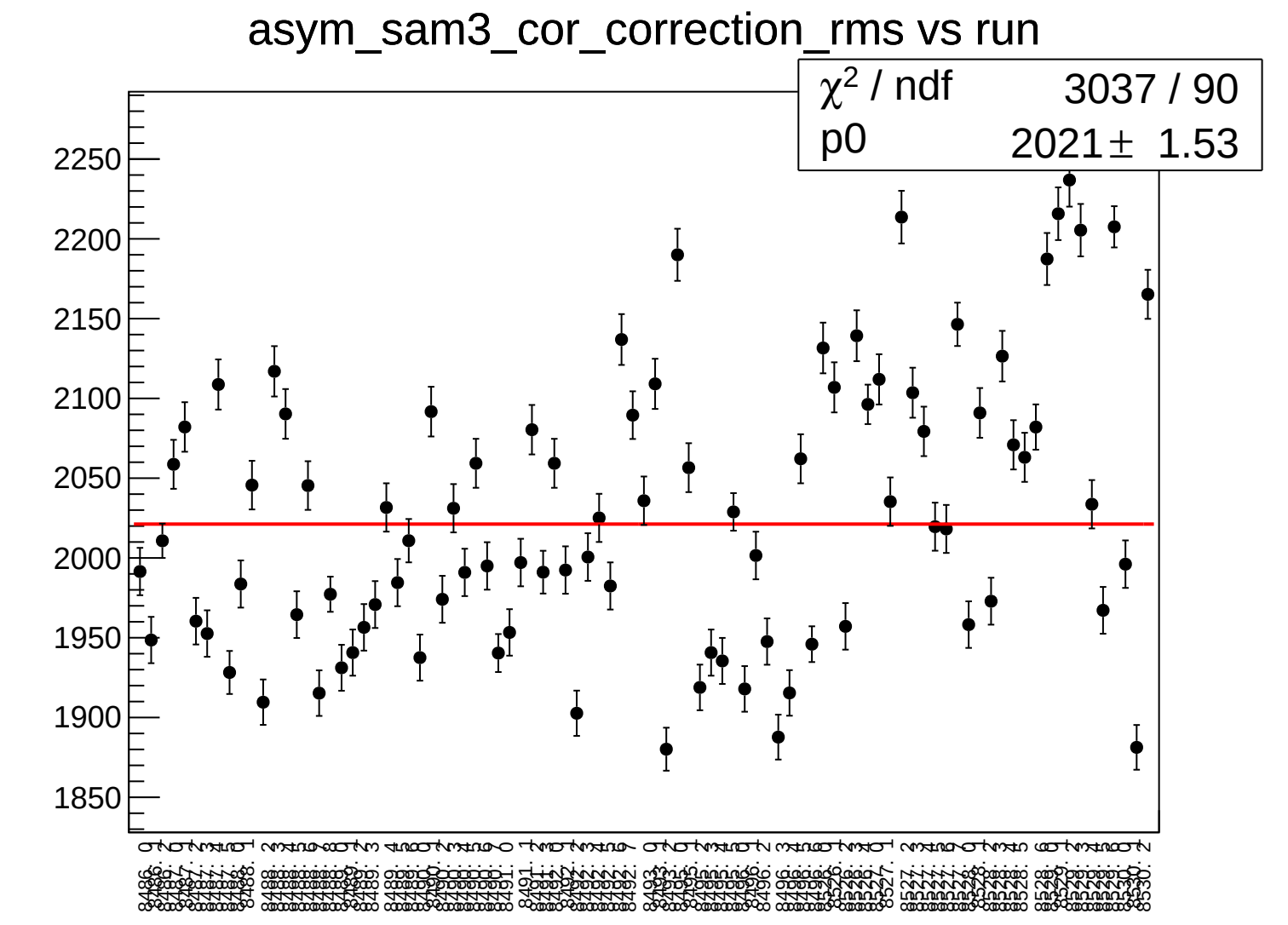

cor_asym_sam3_mean vs run
χ² / ndf 89.22 / 90
p0 627.4 ± 208.5
pull
Entries 91
Mean −215.3
Std Dev 0

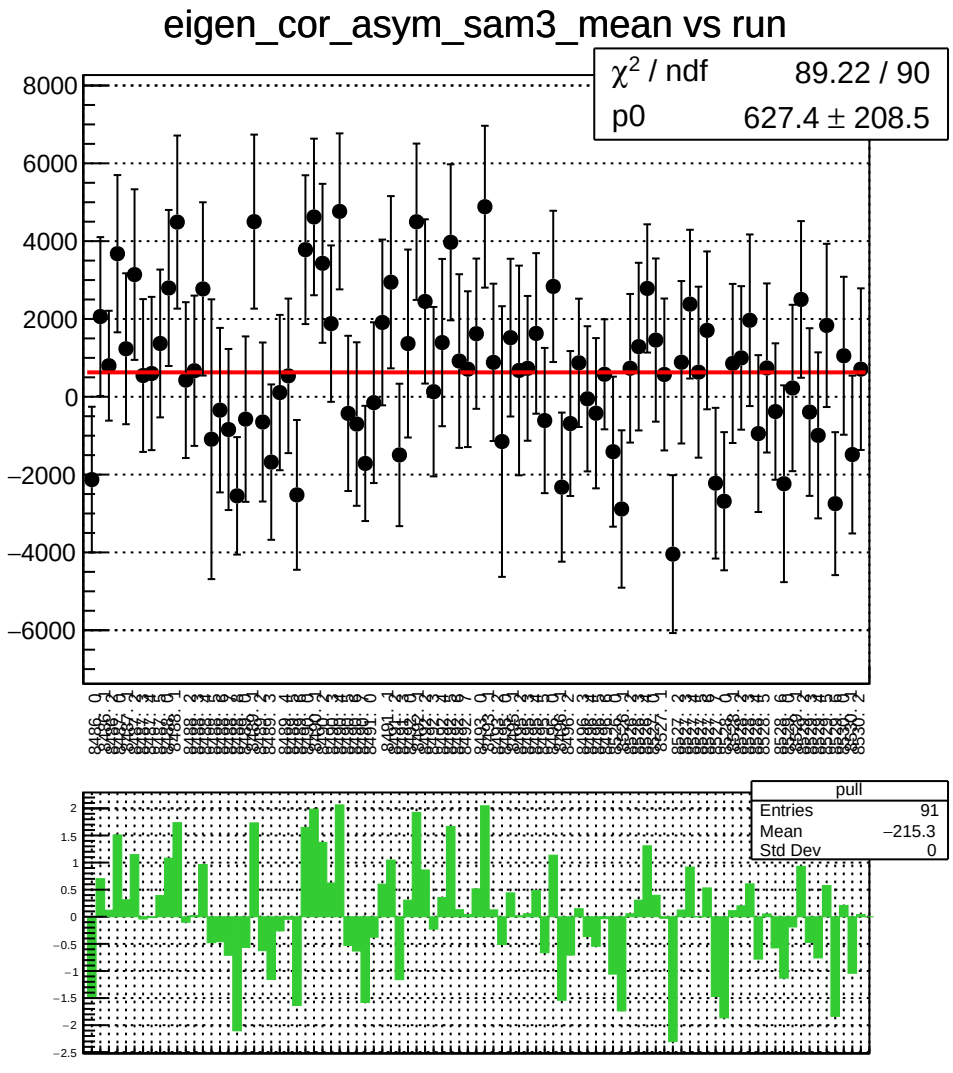

pull1D
Entries 91
Mean 0.02111
Std Dev 0.9899

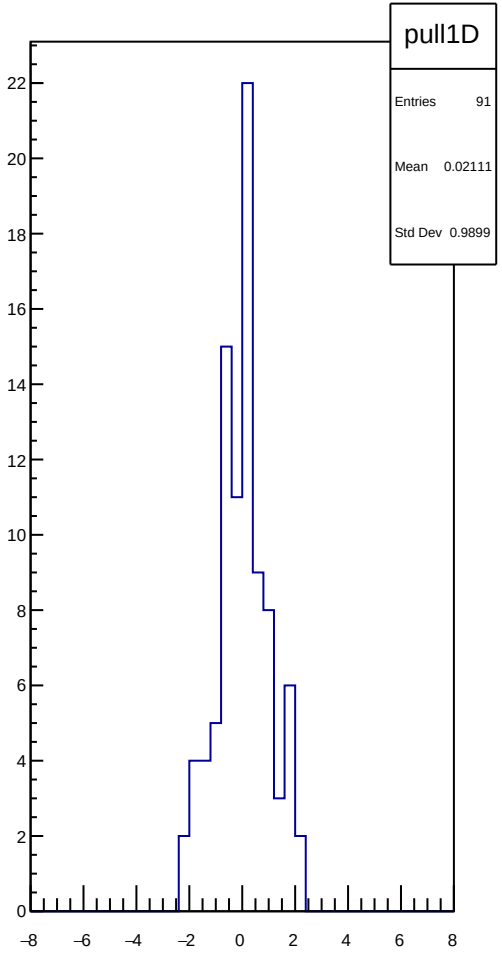

cor_asym_sam3_rms vs run
χ² / ndf 1.57e+04 / 90
p0 194.1 ± 0.1474
350
300
250
200
150

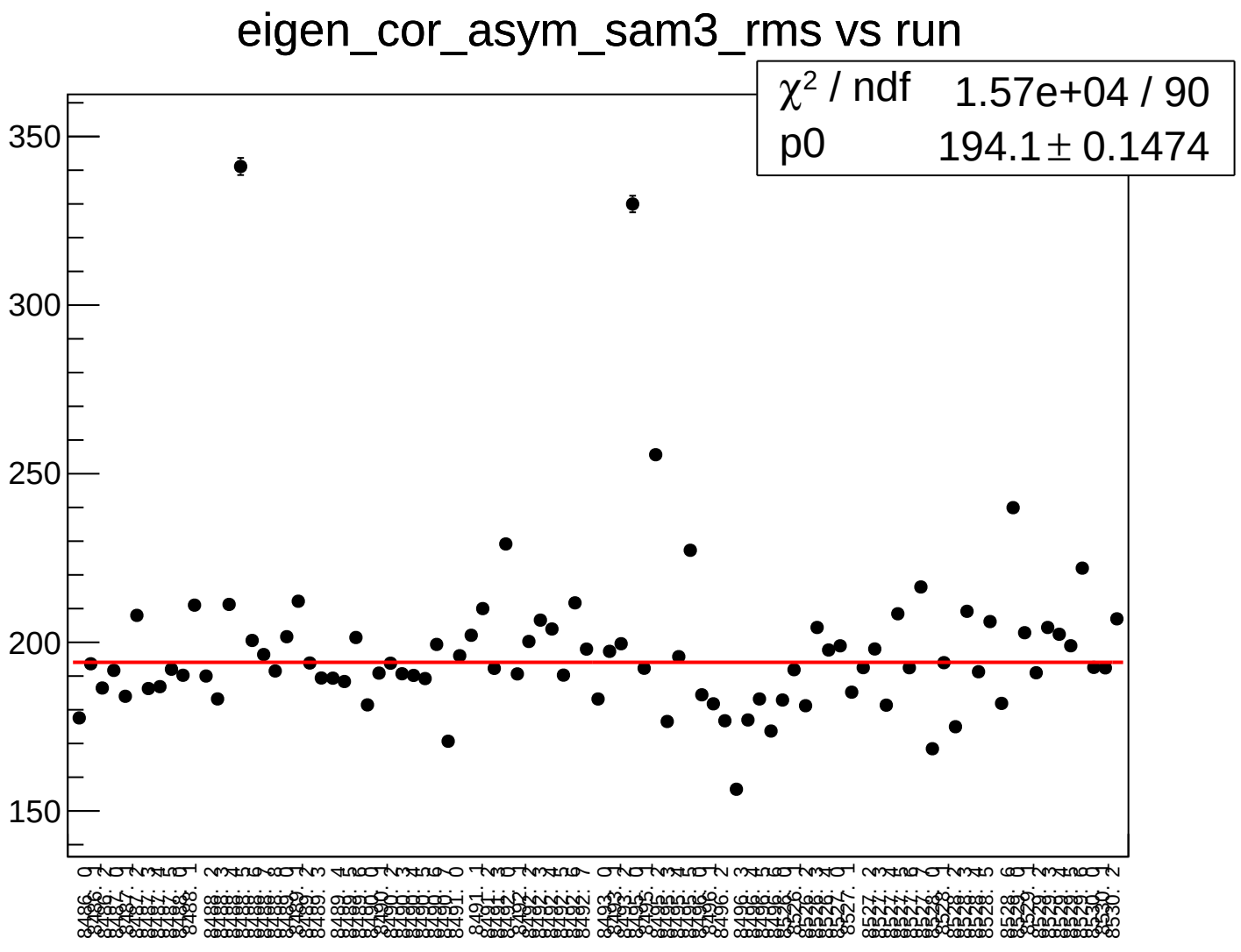

asym_sam3_cor_correction_mean vs run
χ² / ndf 80.28 / 90
p0 −3330 ± 2163
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 102.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

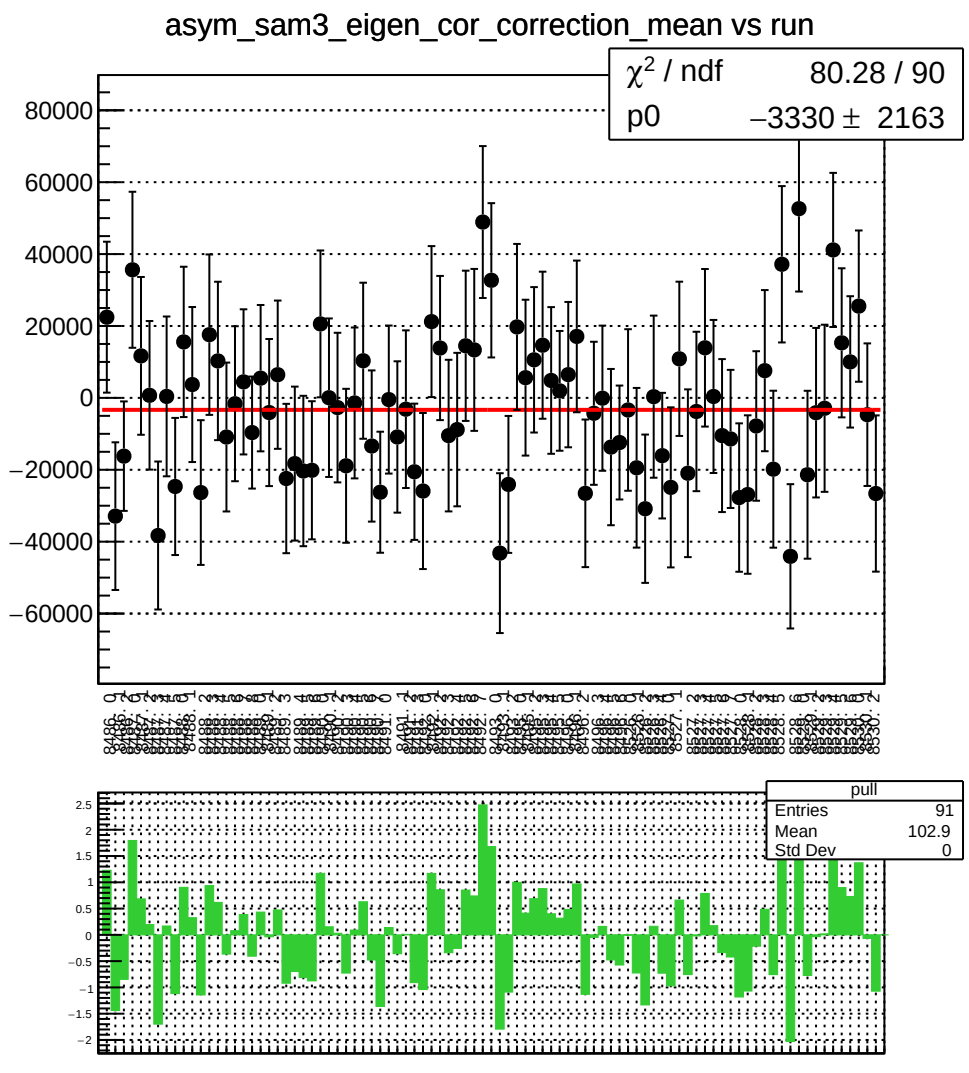

pull1D
Entries 91
Mean 0.01933
Std Dev 0.9391
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

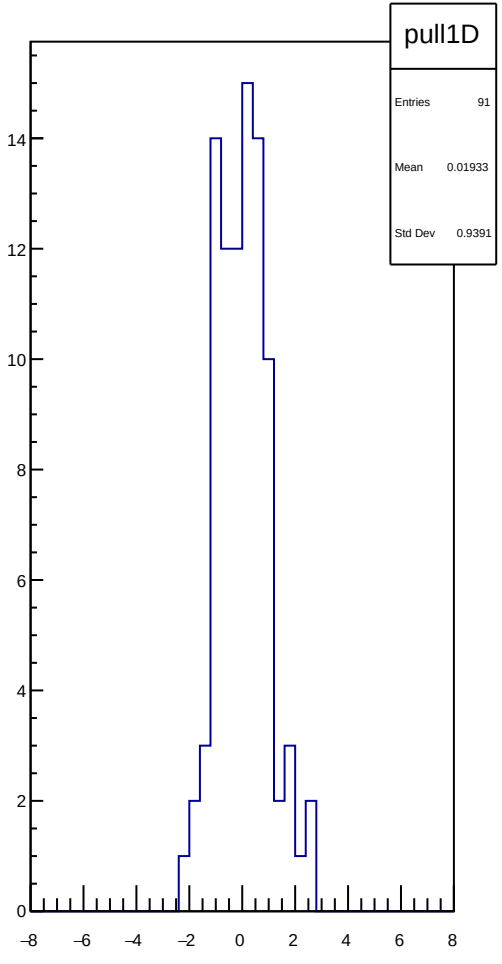

asym_sam3_cor_correction_rms vs run
χ² / ndf 3037 / 90
p0 2021 ± 1.53
2250
2200
2150
2100
2050
2000
1950
1900
1850

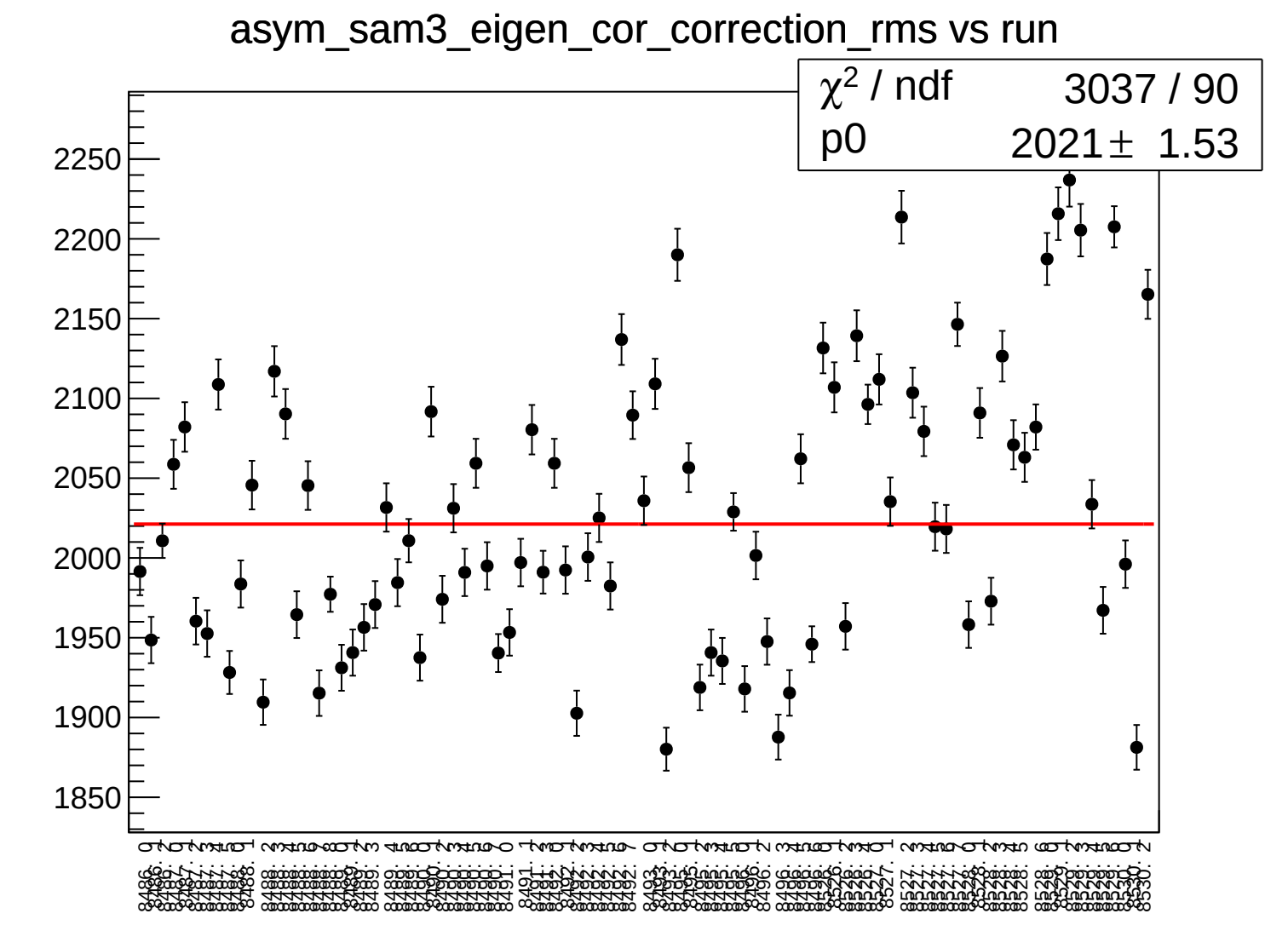

eigen_cor_asym_sam3_mean vs run
χ² / ndf 89.22 / 90
p0 627.4 ± 208.5
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean −215.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

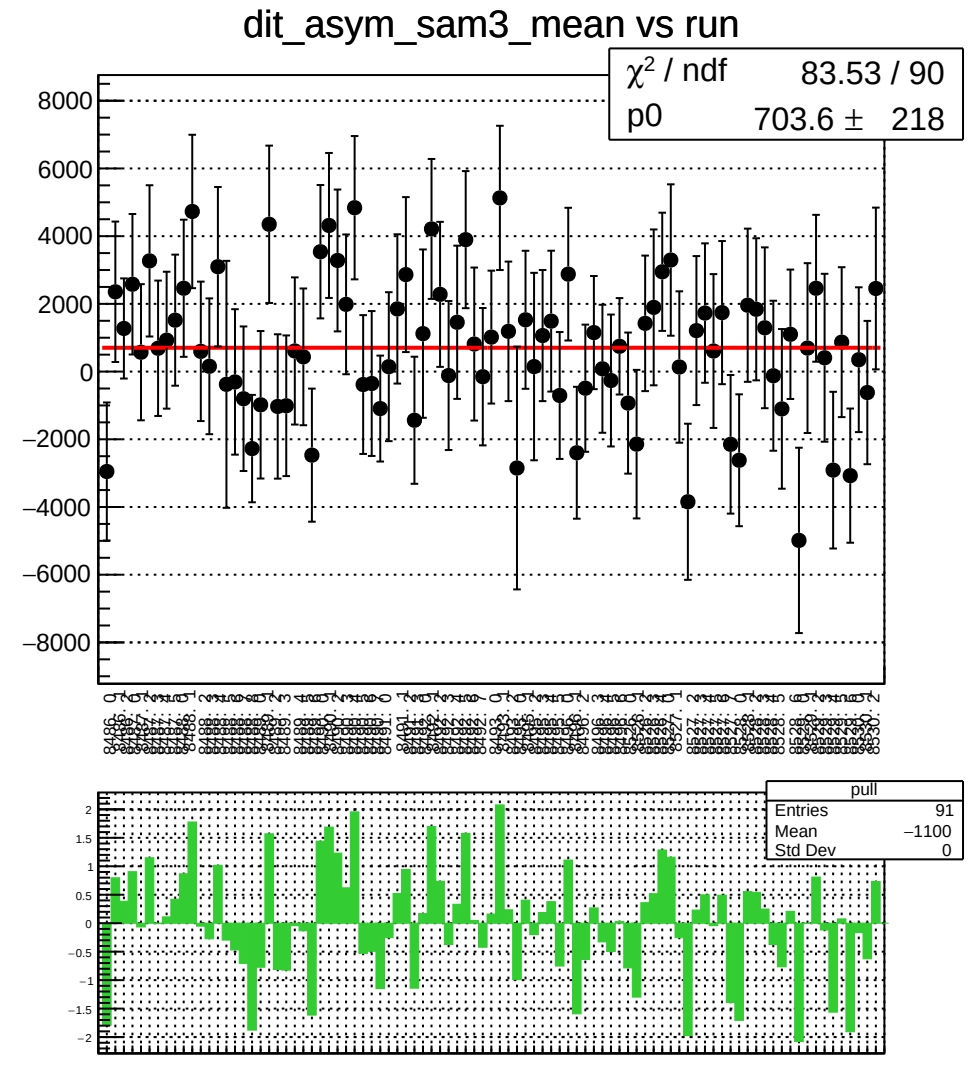

pull1D
Entries 91
Mean 0.02111
Std Dev 0.9899
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

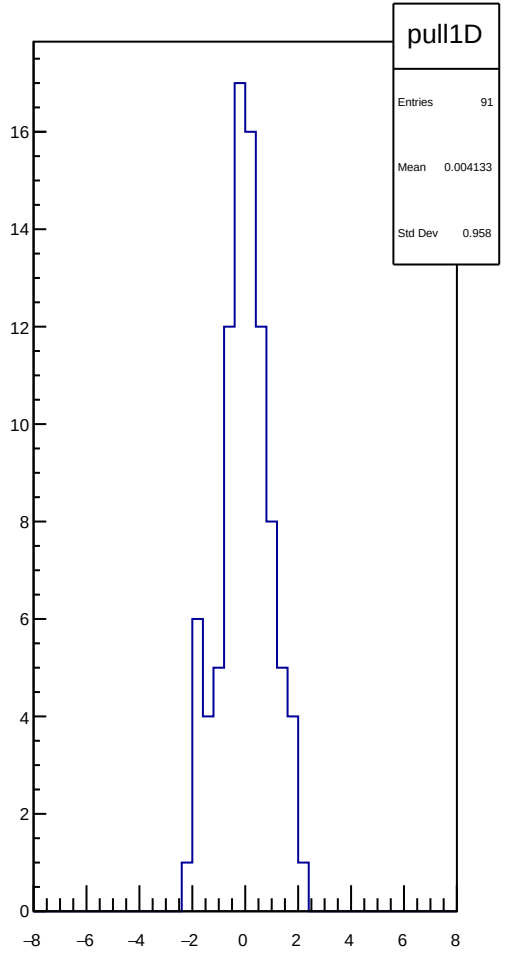

eigen_cor_asym_sam3_rms vs run
χ² / ndf 1.57e+04 / 90
p0 194.1 ± 0.1474
350
300
250
200
150

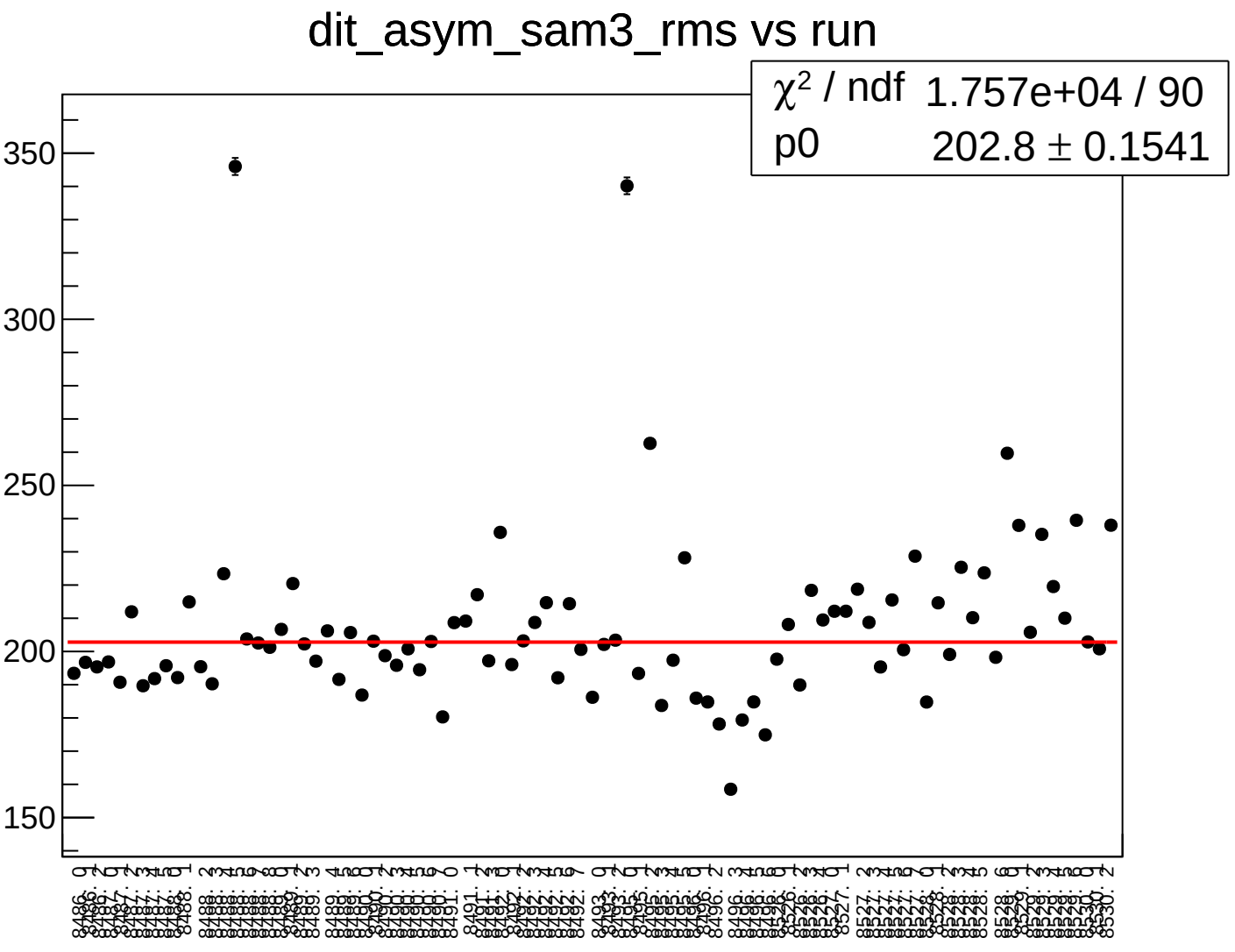

asym_sam3_eigen_cor_correction_mean vs run
χ² / ndf 80.28 / 90
p0 −3330 ± 2163
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 102.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

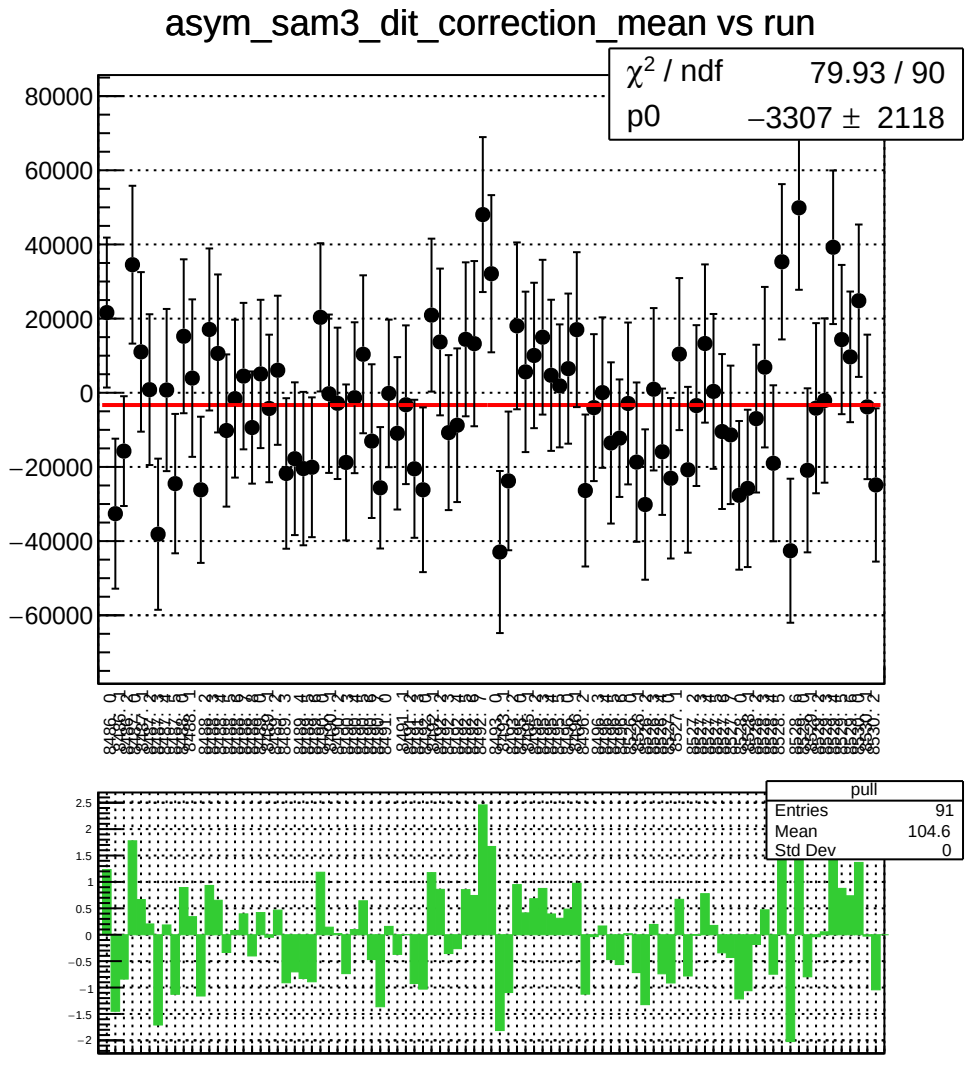

pull1D
Entries 91
Mean 0.01933
Std Dev 0.9391
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

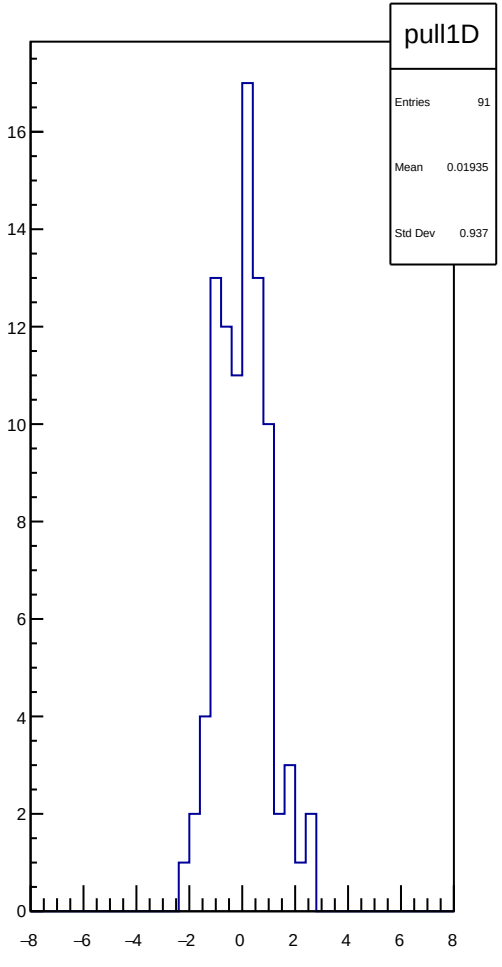

asym_sam3_eigen_cor_correction_rms vs run
χ² / ndf 3037 / 90
p0 2021 ± 1.53
2250
2200
2150
2100
2050
2000
1950
1900
1850

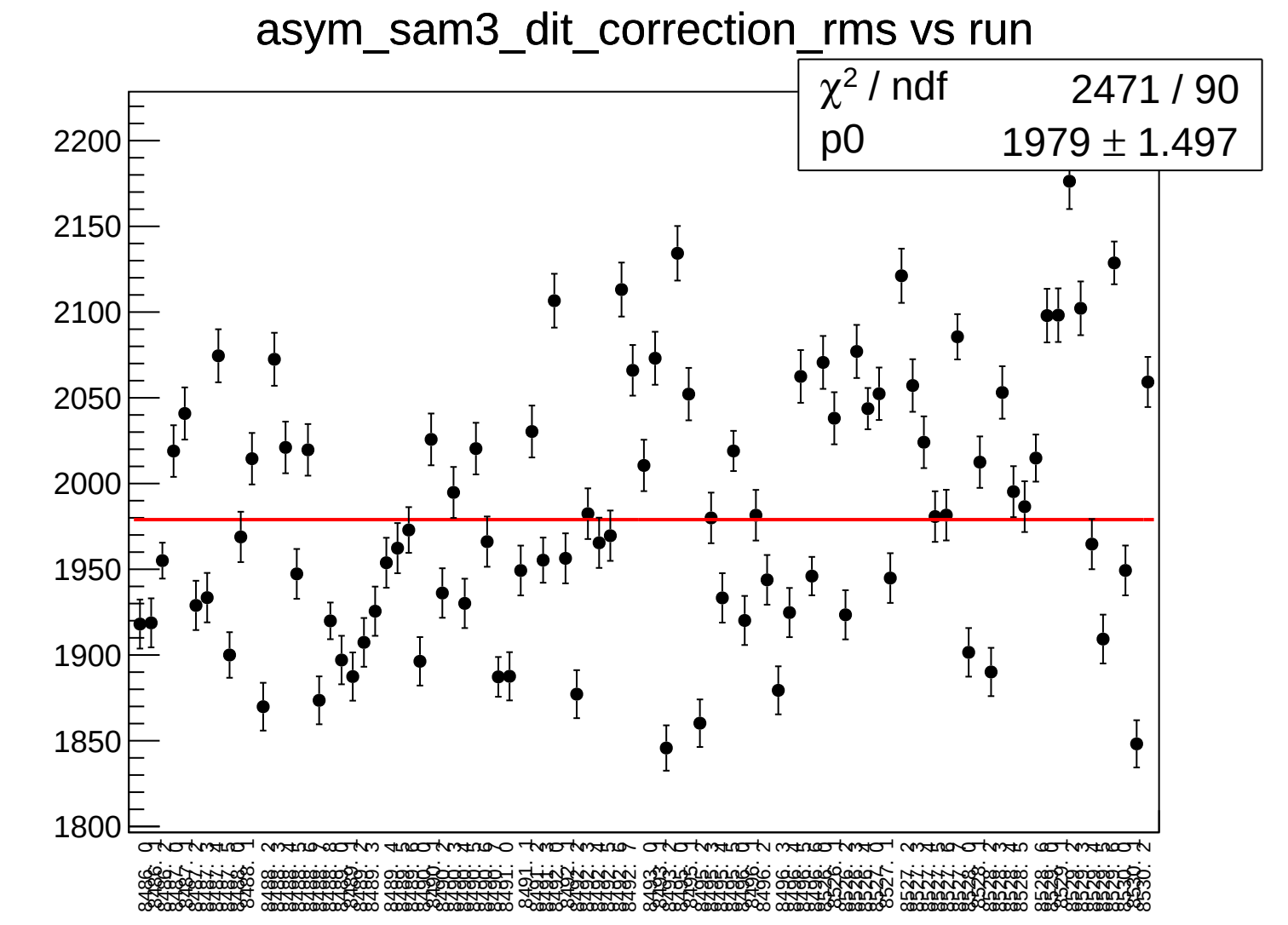

dit_asym_sam3_mean vs run
χ² / ndf 83.53 / 90
p0 703.6 ± 218
pull
Entries 91
Mean −1100
Std Dev 0

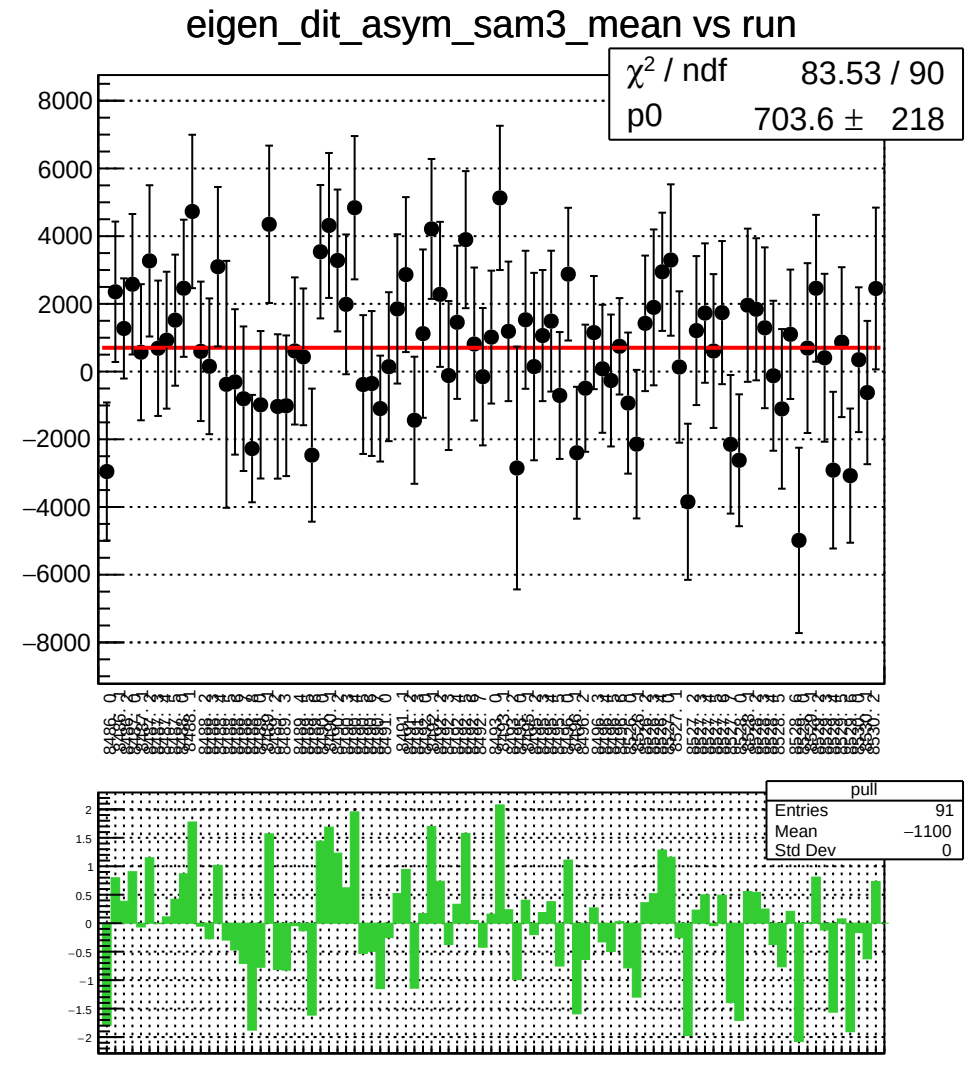

pull1D
Entries 91
Mean 0.004133
Std Dev 0.958

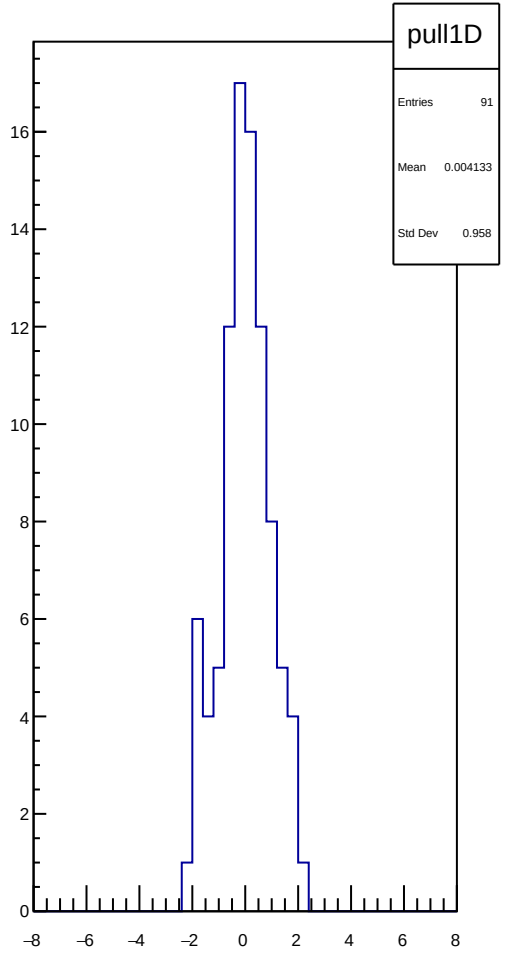

dit_asym_sam3_rms vs run
χ² / ndf 1.757e+04 / 90
p0 202.8 ± 0.1541
350
300
250
200
150

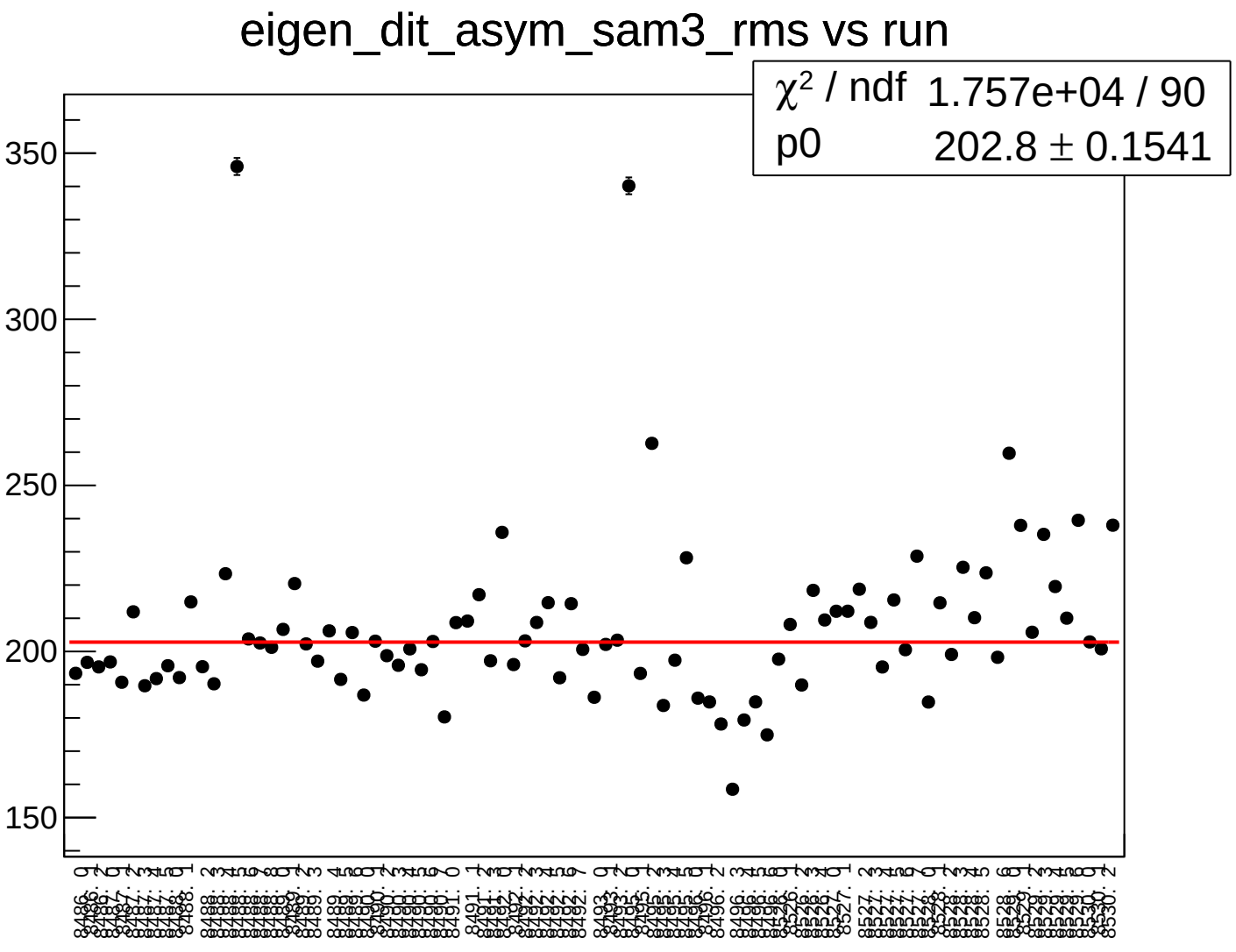

asym_sam3_dit_correction_mean vs run
χ² / ndf 79.93 / 90
p0 −3307 ± 2118
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 104.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

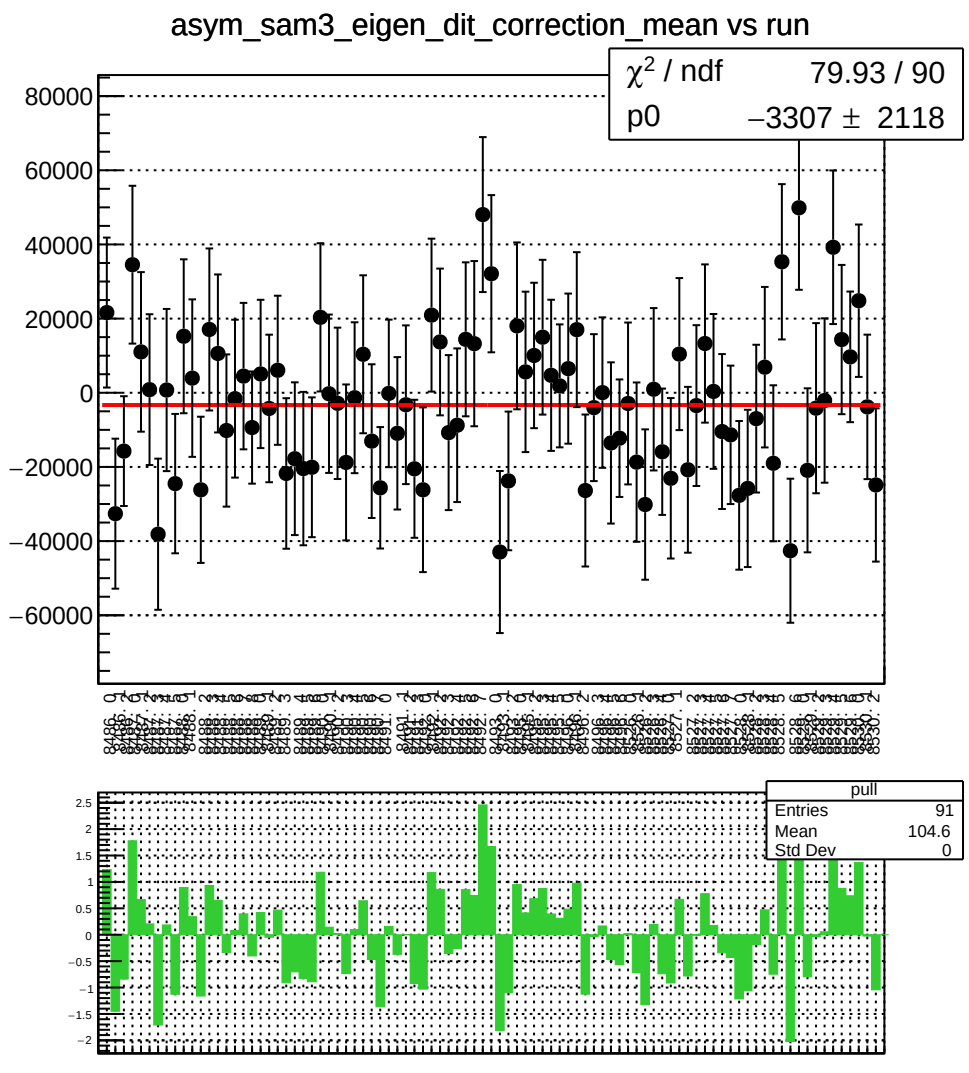

pull1D
Entries 91
Mean 0.01935
Std Dev 0.937
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

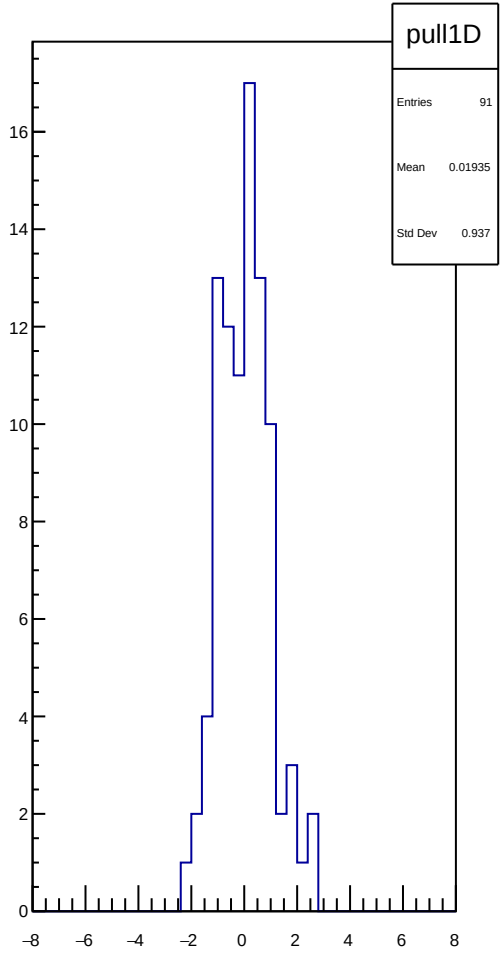

asym_sam3_dit_correction_rms vs run
χ² / ndf 2471 / 90
p0 1979 ± 1.497
2200
2150
2100
2050
2000
1950
1900
1850
1800

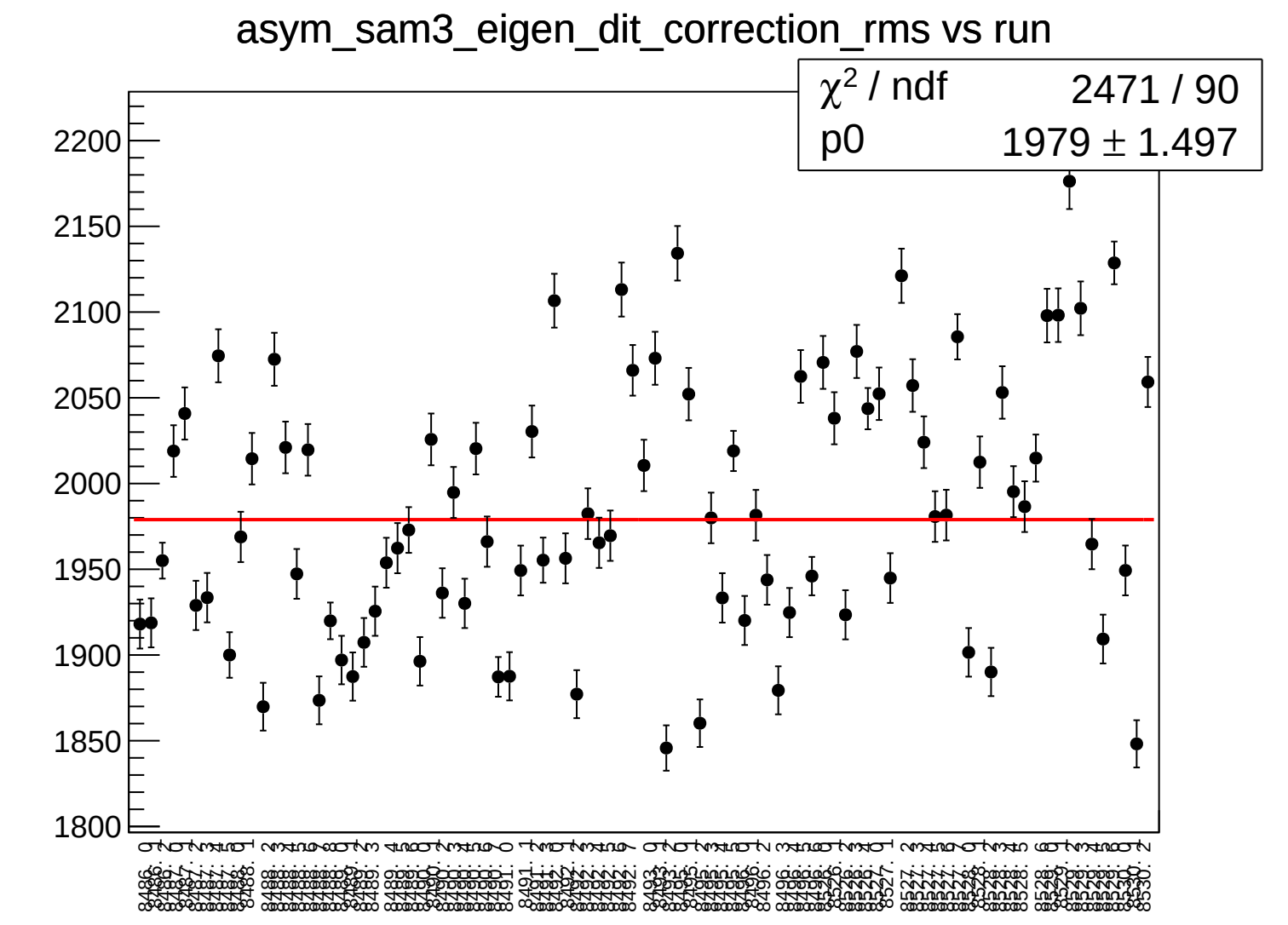

eigen_dit_asym_sam3_mean vs run
χ² / ndf 83.53 / 90
p0 703.6 ± 218
pull
Entries 91
Mean −1100
Std Dev 0

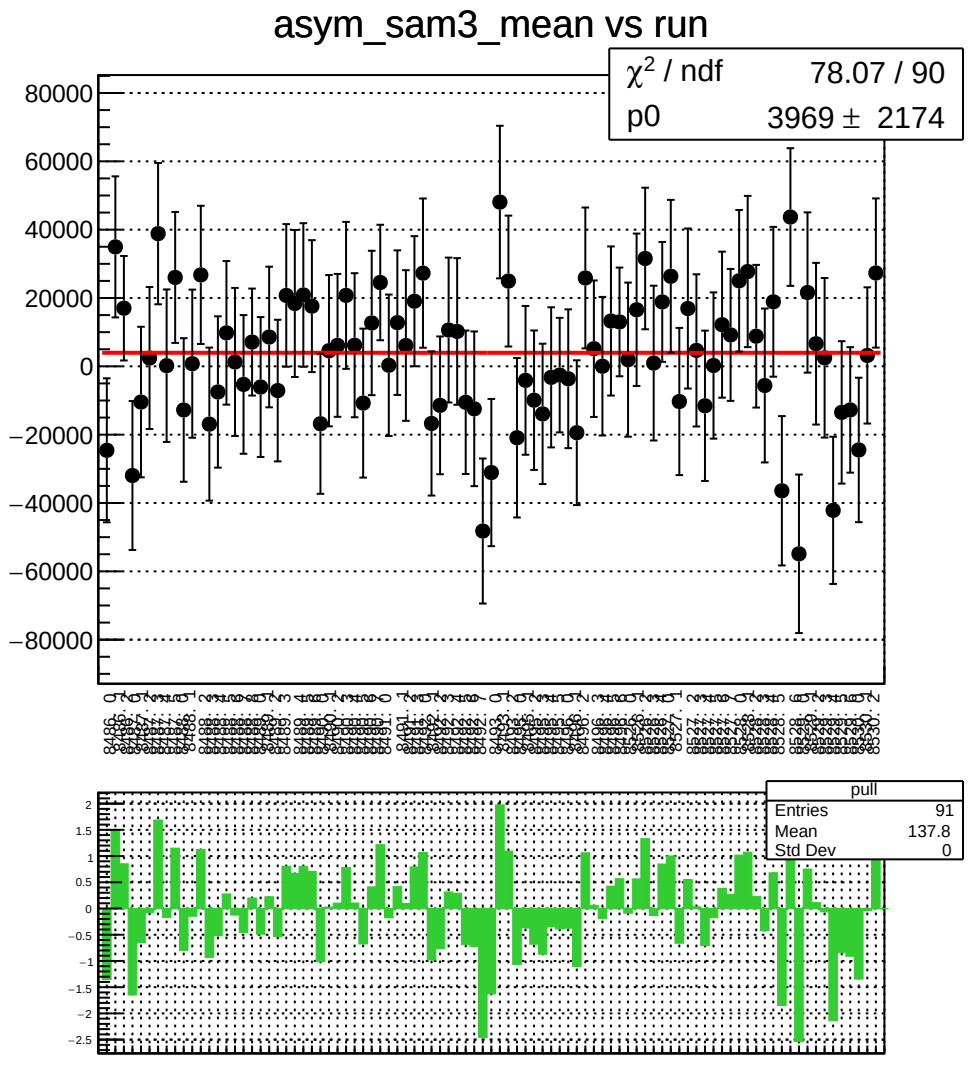

pull1D
Entries 91
Mean 0.004133
Std Dev 0.958

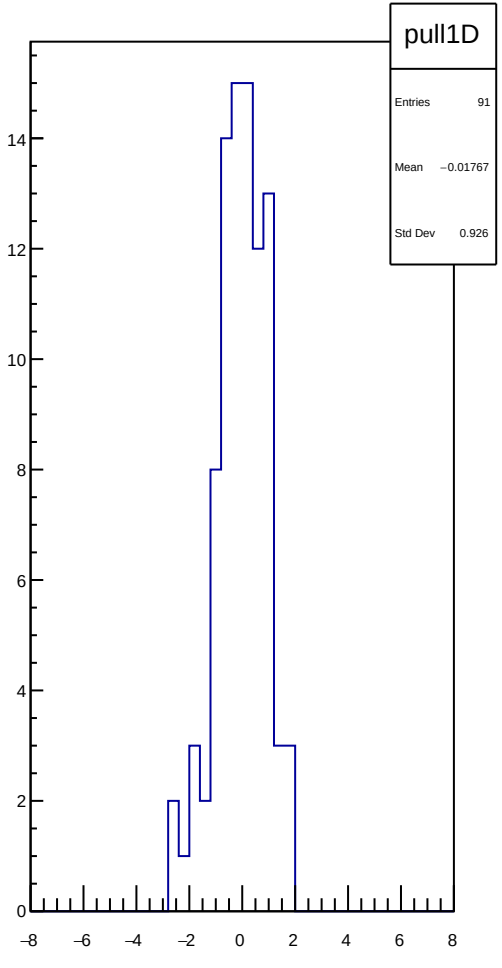

eigen_dit_asym_sam3_rms vs run
χ² / ndf 1.757e+04 / 90
p0 202.8 ± 0.1541
350
300
250
200
150

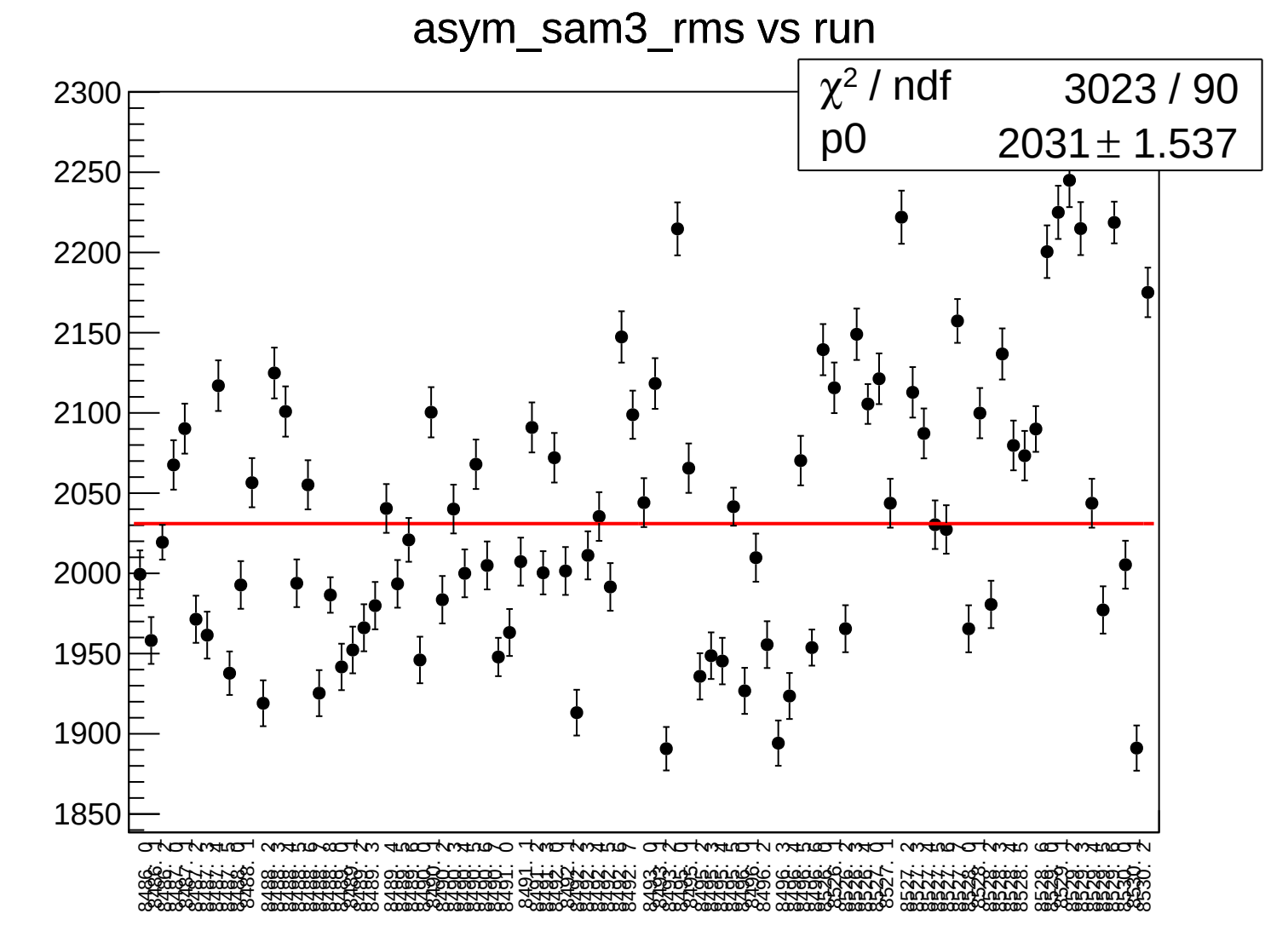

asym_sam3_eigen_dit_correction_mean vs run
χ² / ndf 79.93 / 90
p0 −3307 ± 2118
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 104.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

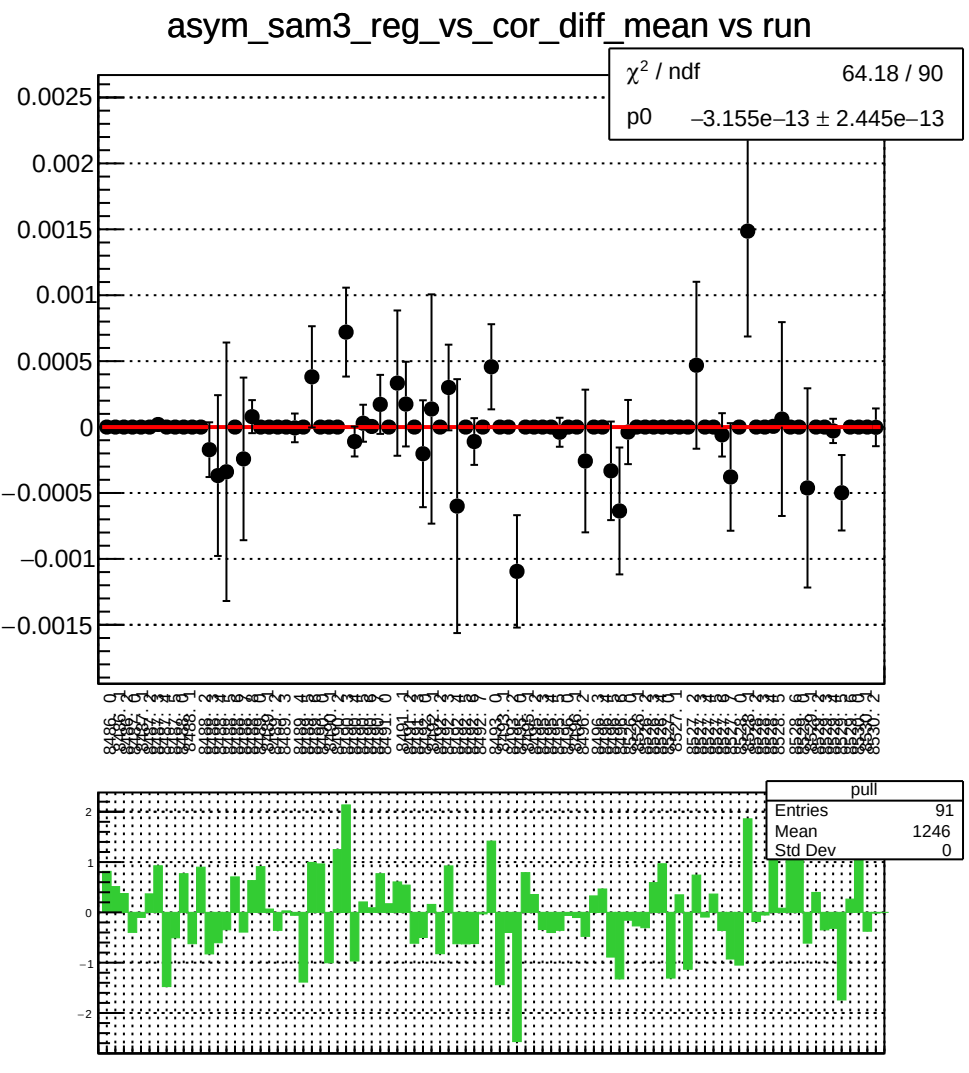

pull1D
Entries 91
Mean 0.01935
Std Dev 0.937
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

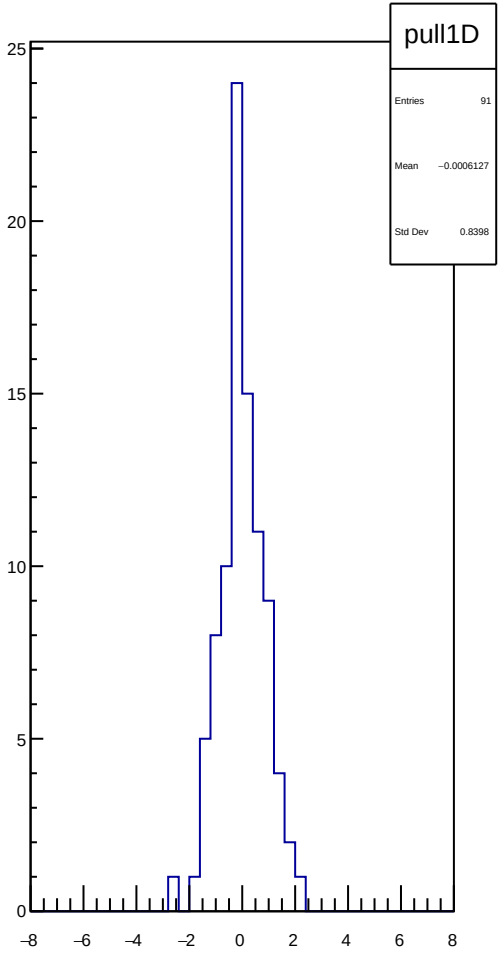

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 2471 / 90
p0 1979 ± 1.497
2200
2150
2100
2050
2000
1950
1900
1850
1800

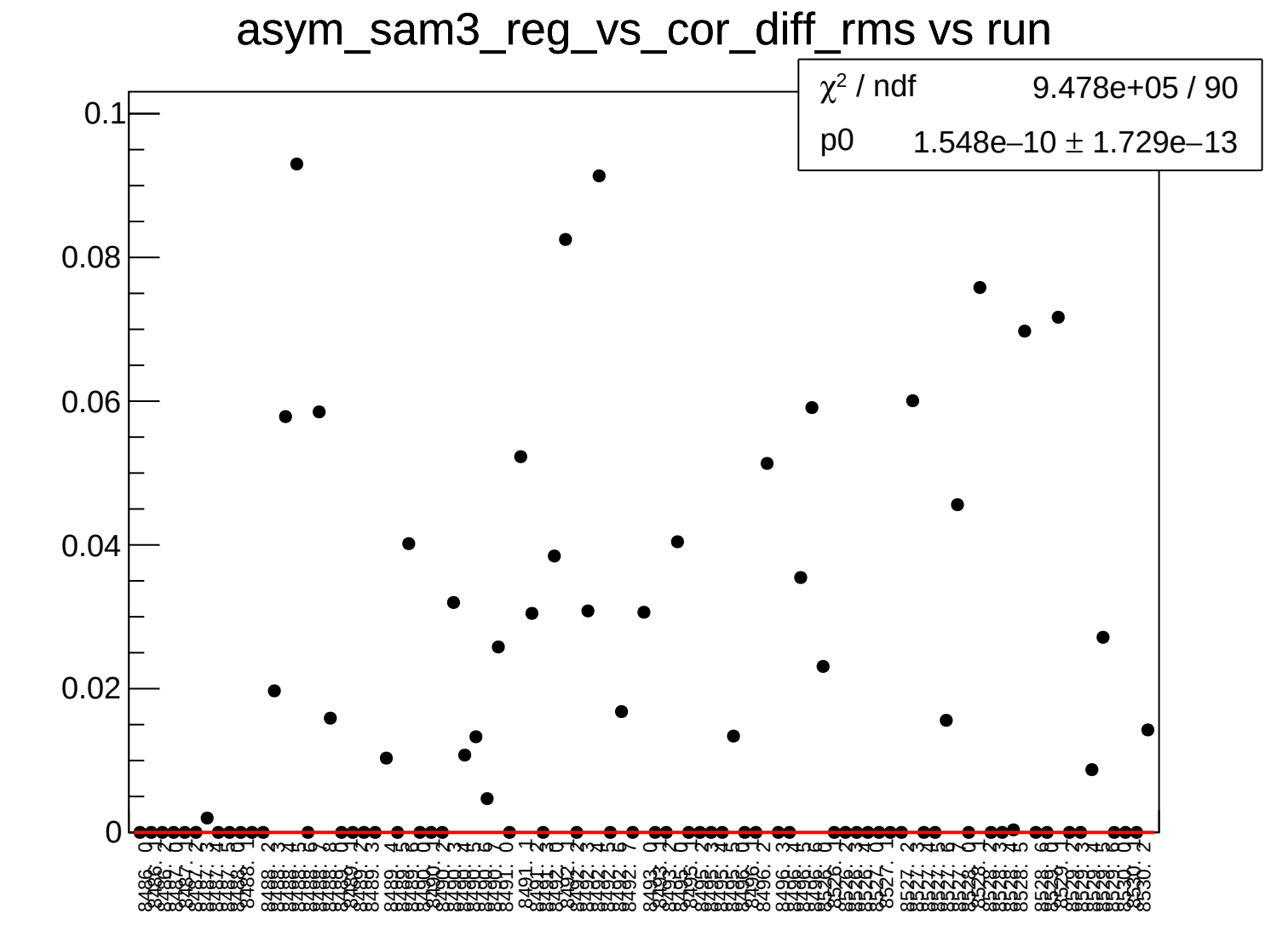

asym_sam3_mean vs run
χ² / ndf 78.07 / 90
p0 3969 ± 2174
pull
Entries 91
Mean 137.8
Std Dev 0

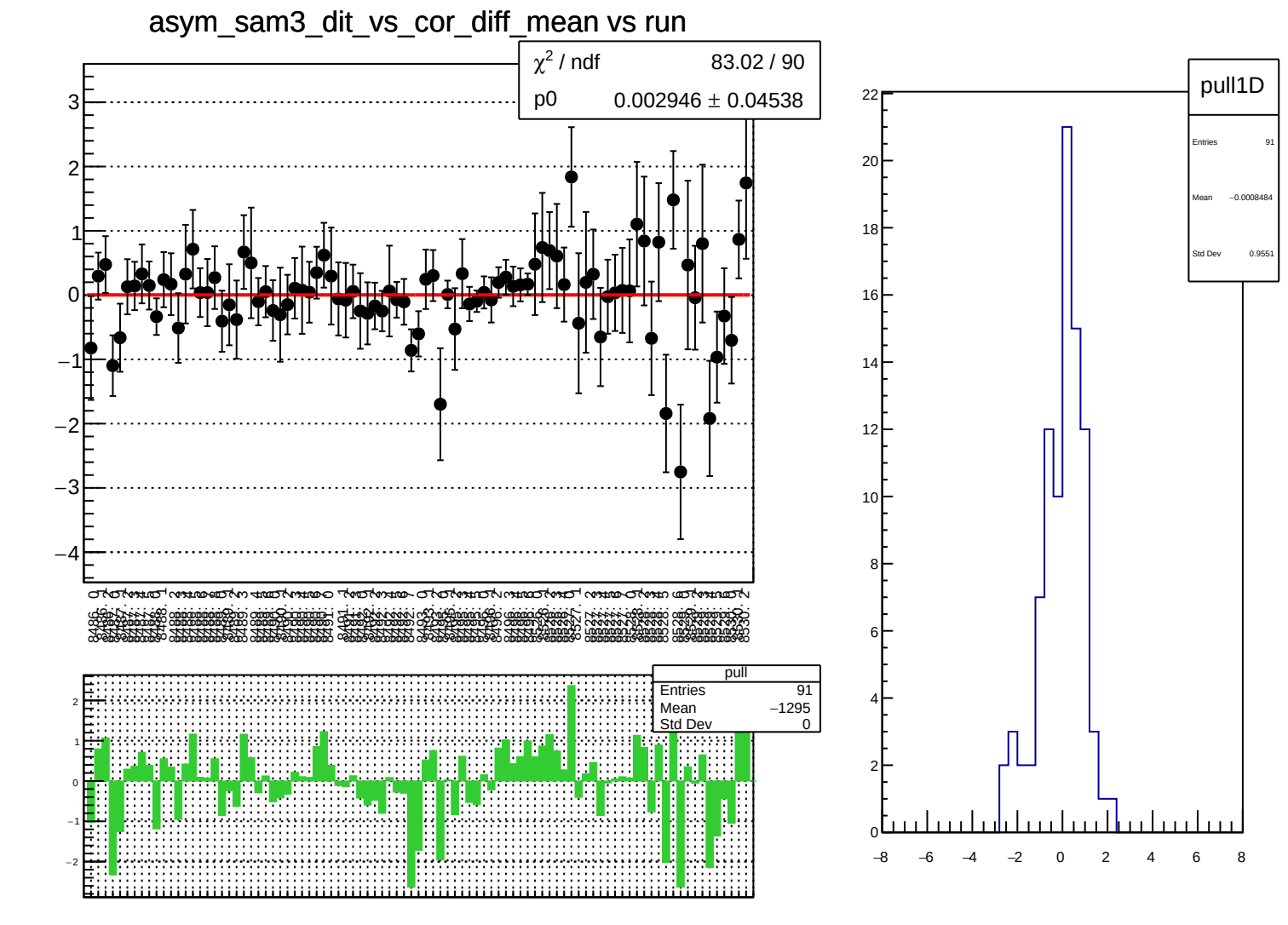

pull1D
Entries 91
Mean −0.01767
Std Dev 0.926

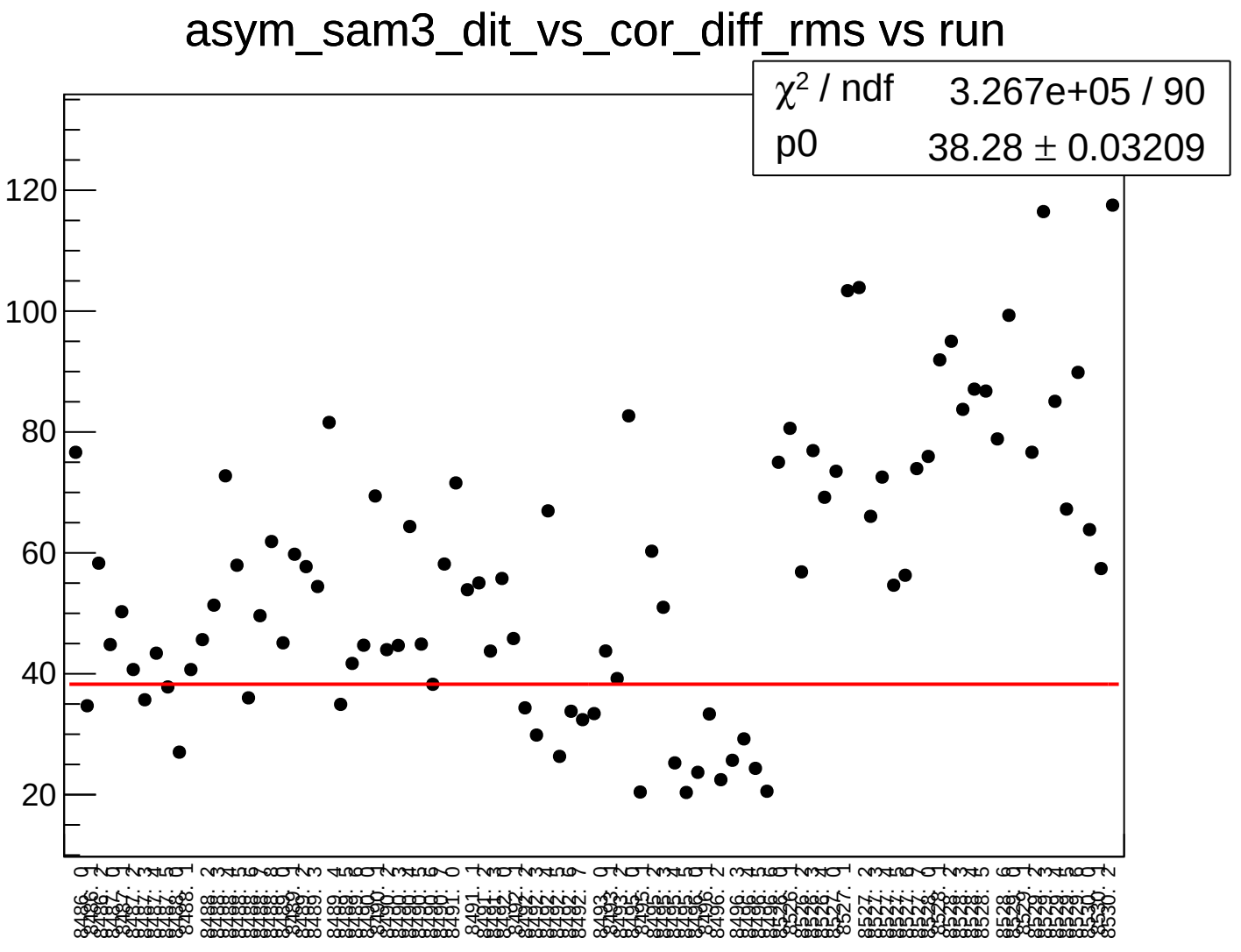

asym_sam3_rms vs run
χ² / ndf 3023 / 90
p0 2031 ± 1.537
2300
2250
2200
2150
2100
2050
2000
1950
1900
1850

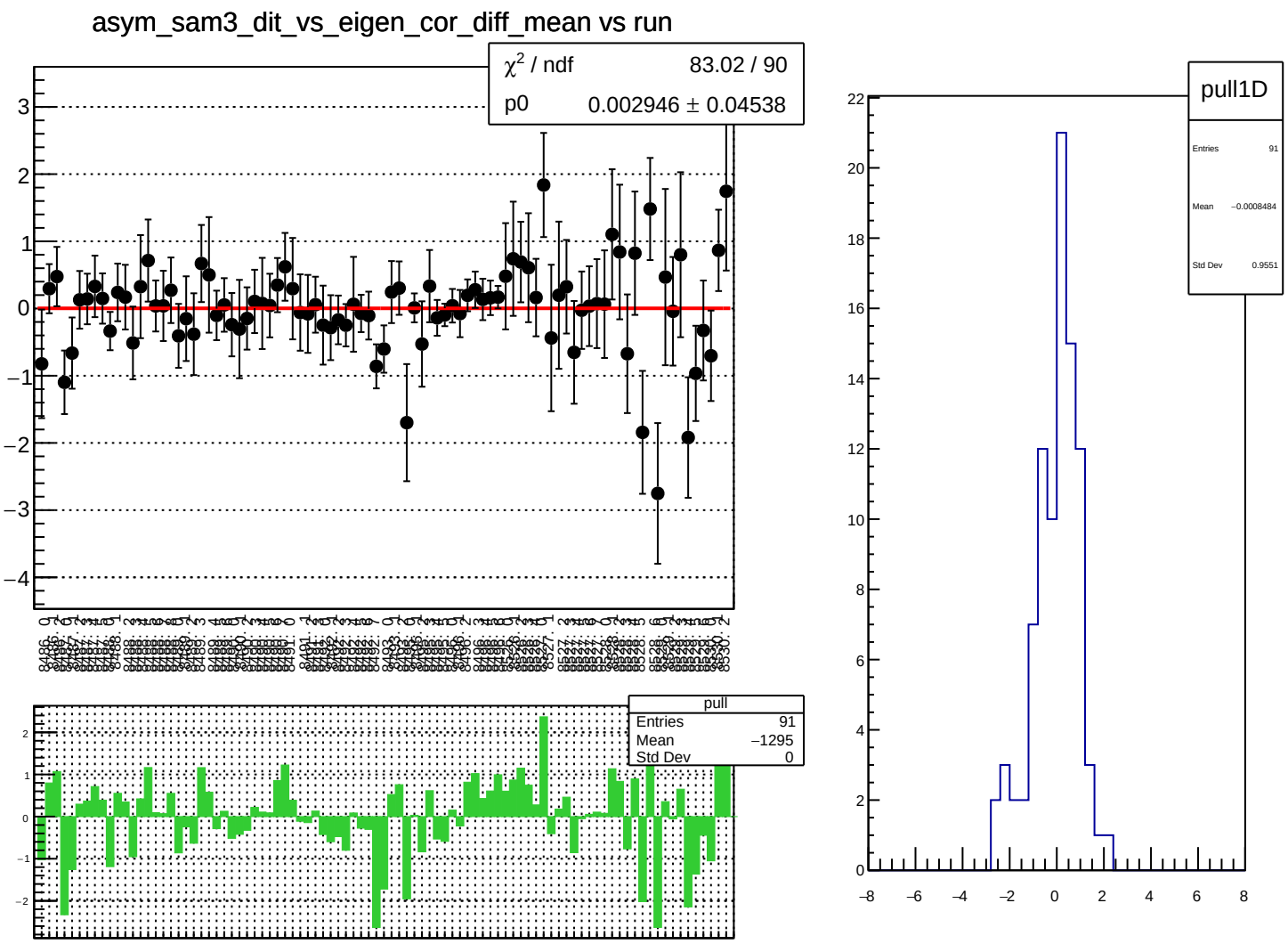

asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 64.18 / 90
p0 −3.155e−13 ± 2.445e−13
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 91
Mean 1246
Std Dev 0
2
1
0
−1
−2

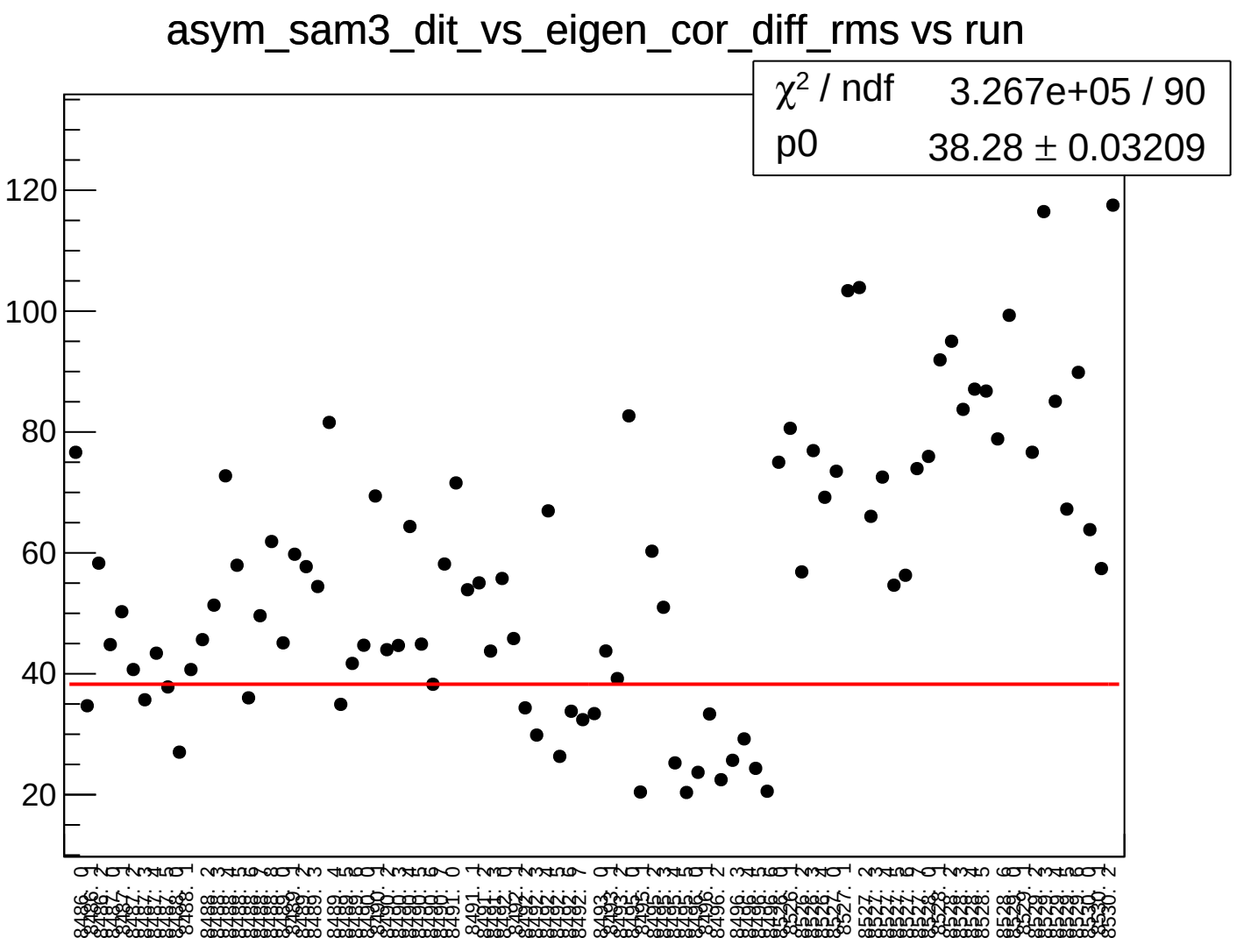

pull1D
Entries 91
Mean −0.0006127
Std Dev 0.8398
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

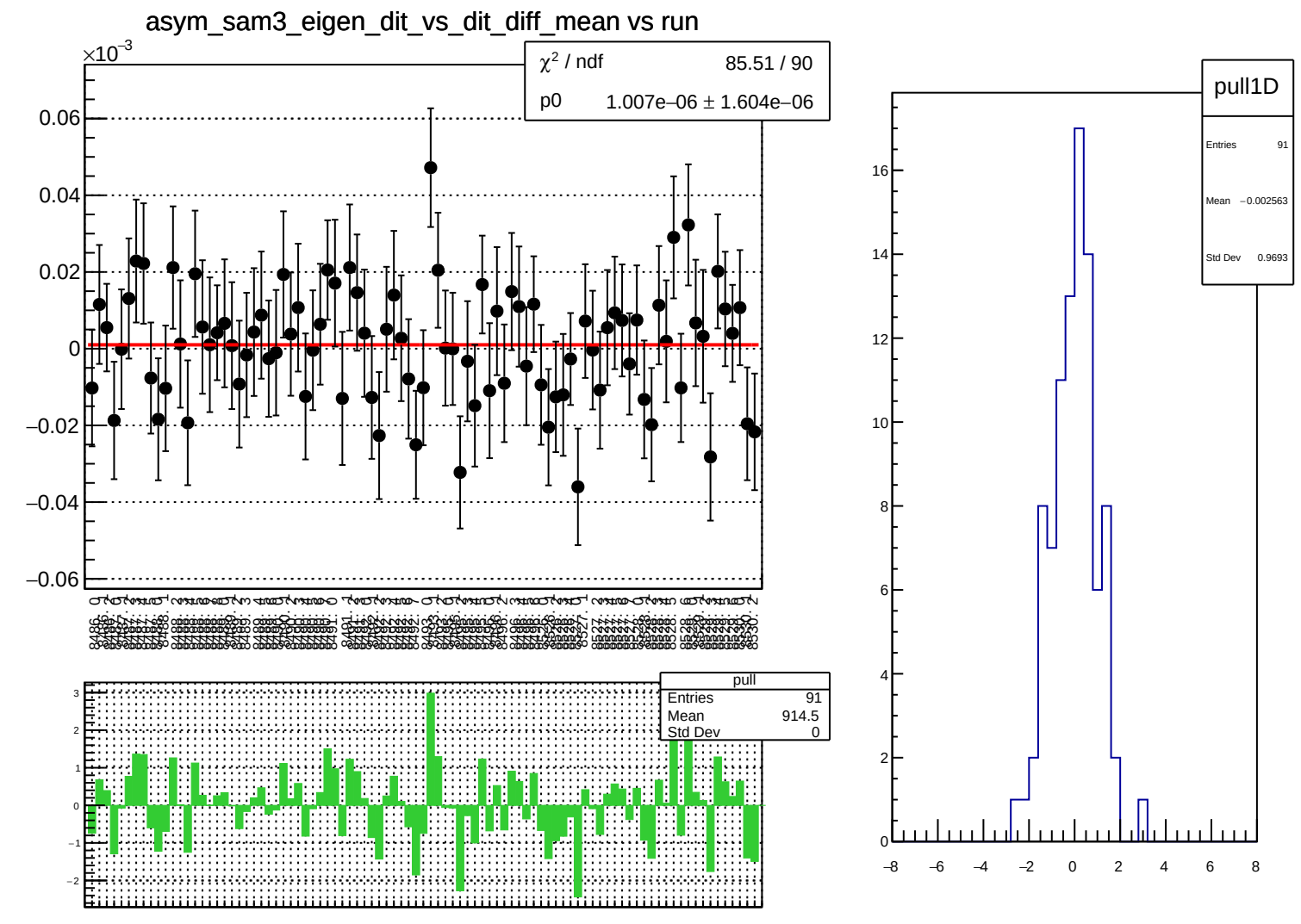

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 9.478e+05 / 90
p0 1.548e−10 ± 1.729e−13
0.1
0.08
0.06
0.04
0.02
0

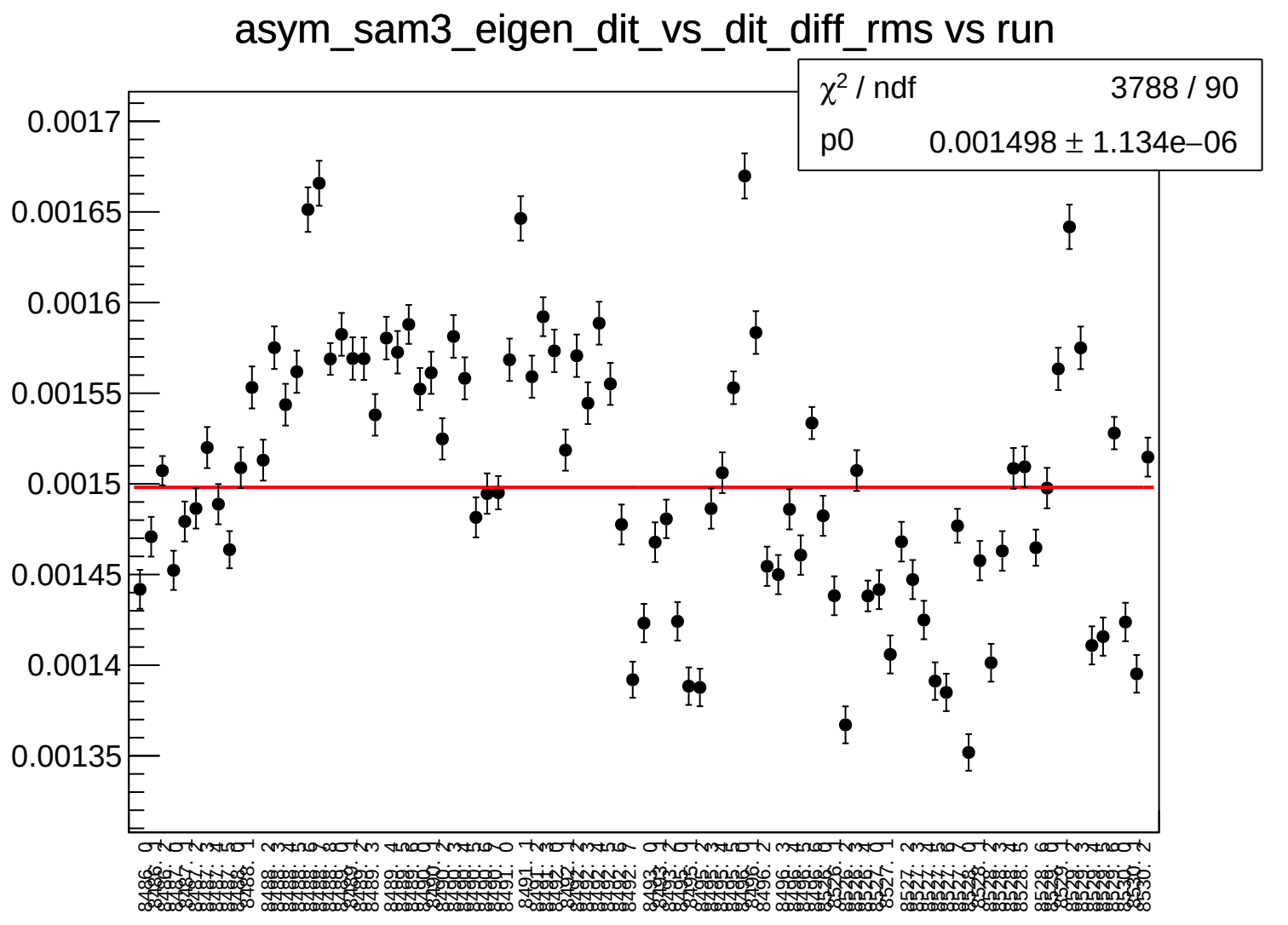

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 83.02 / 90
p0 0.002946 ± 0.04538
pull
Entries 91
Mean −1295
Std Dev 0
pull1D
Entries 91
Mean −0.0008484
Std Dev 0.9551

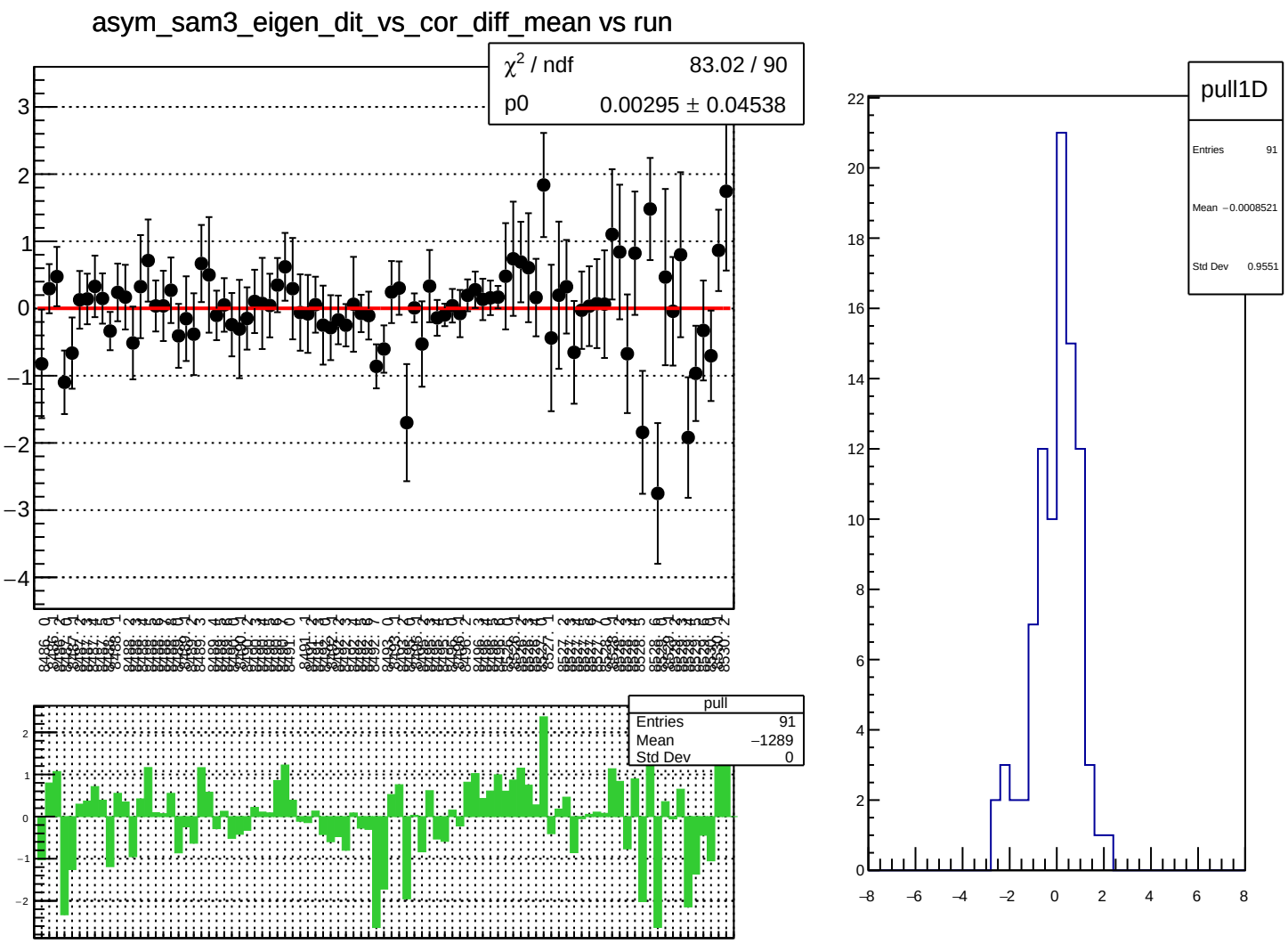

asym_sam3_dit_vs_cor_diff_rms vs run
χ² / ndf 3.267e+05 / 90
p0 38.28 ± 0.03209
120
100
80
60
40
20

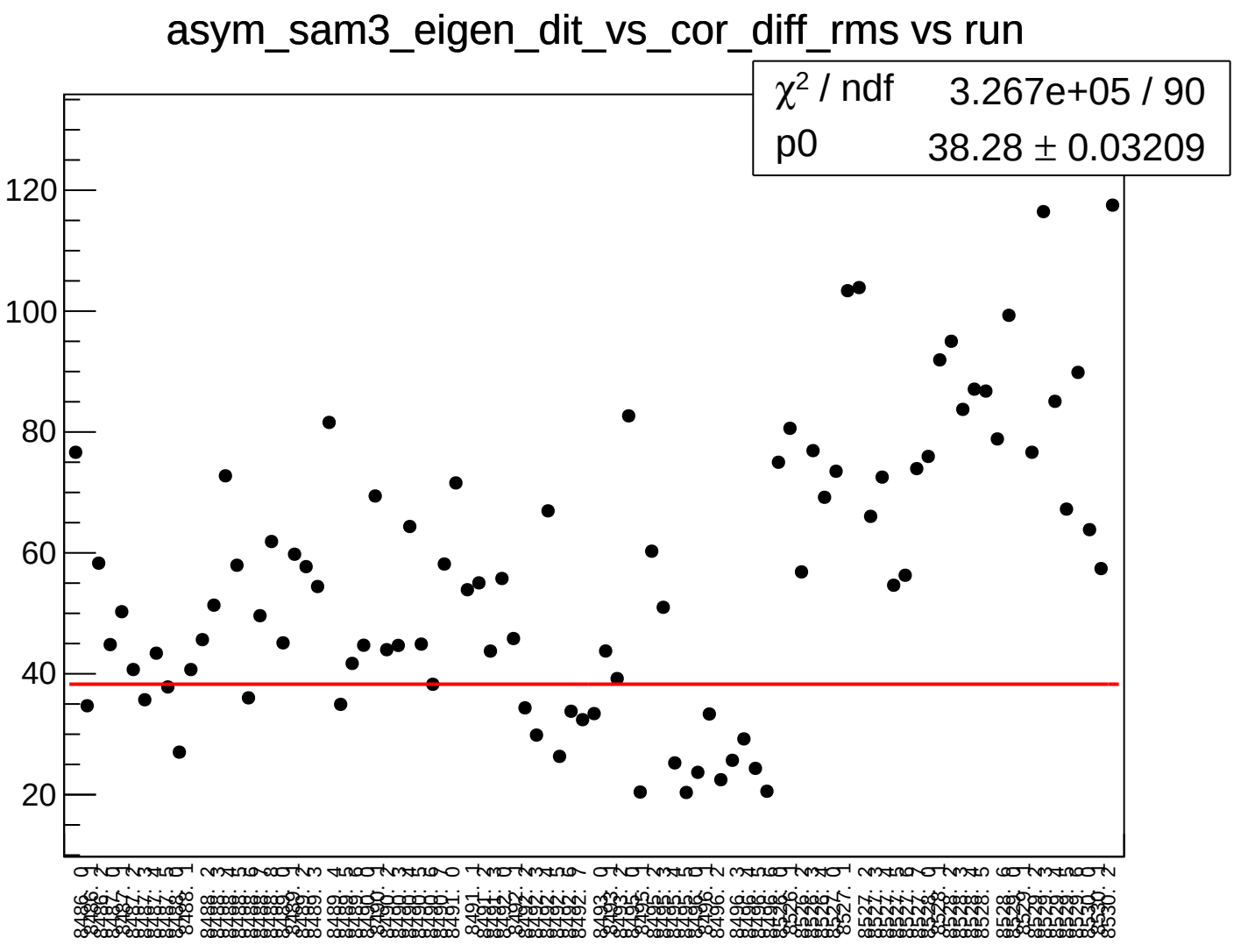

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.02 / 90
p0 0.002946 ± 0.04538
pull
Entries 91
Mean −1295
Std Dev 0
pull1D
Entries 91
Mean −0.0008484
Std Dev 0.9551

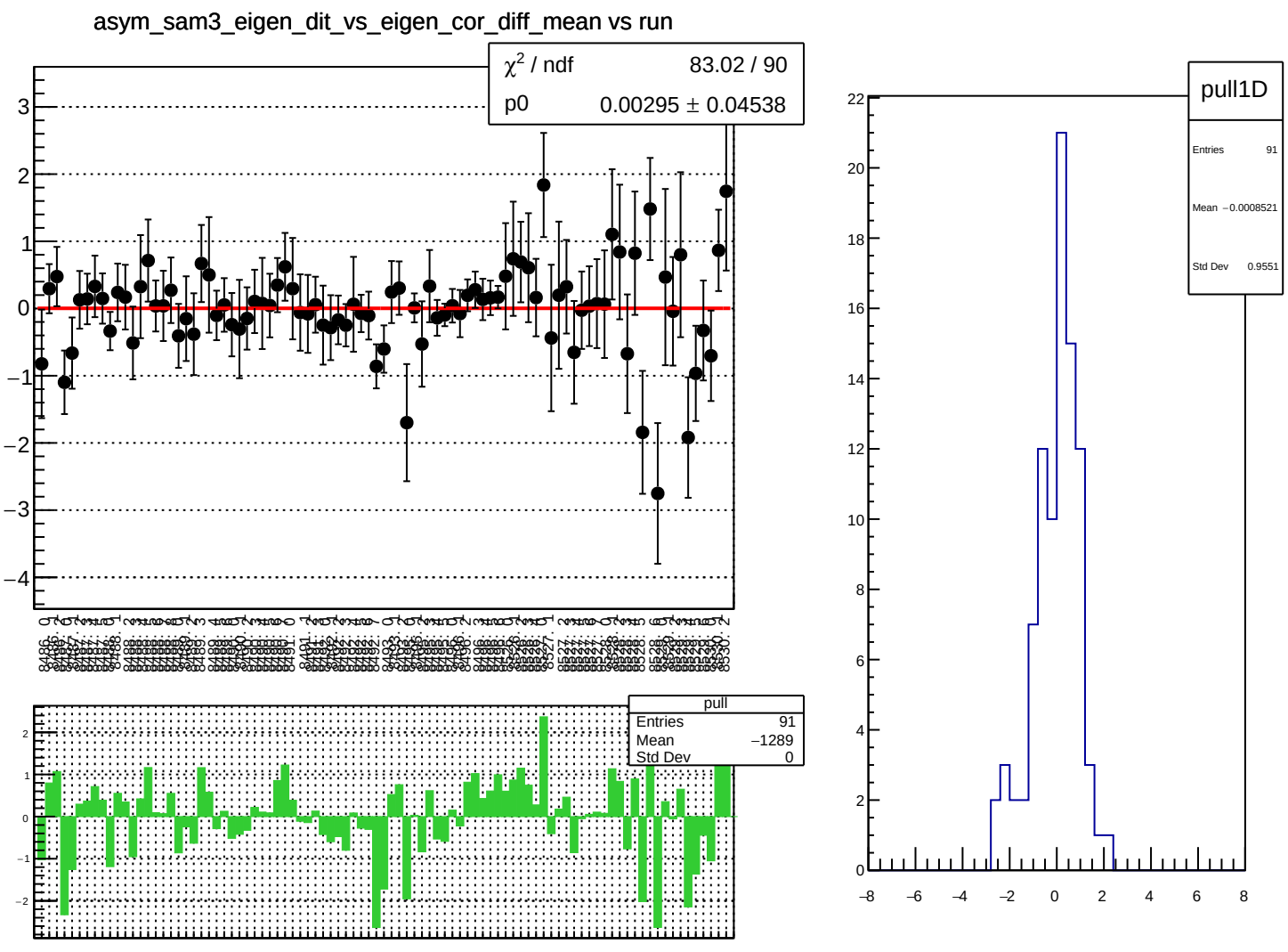

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.267e+05 / 90
p0 38.28 ± 0.03209
120
100
80
60
40
20

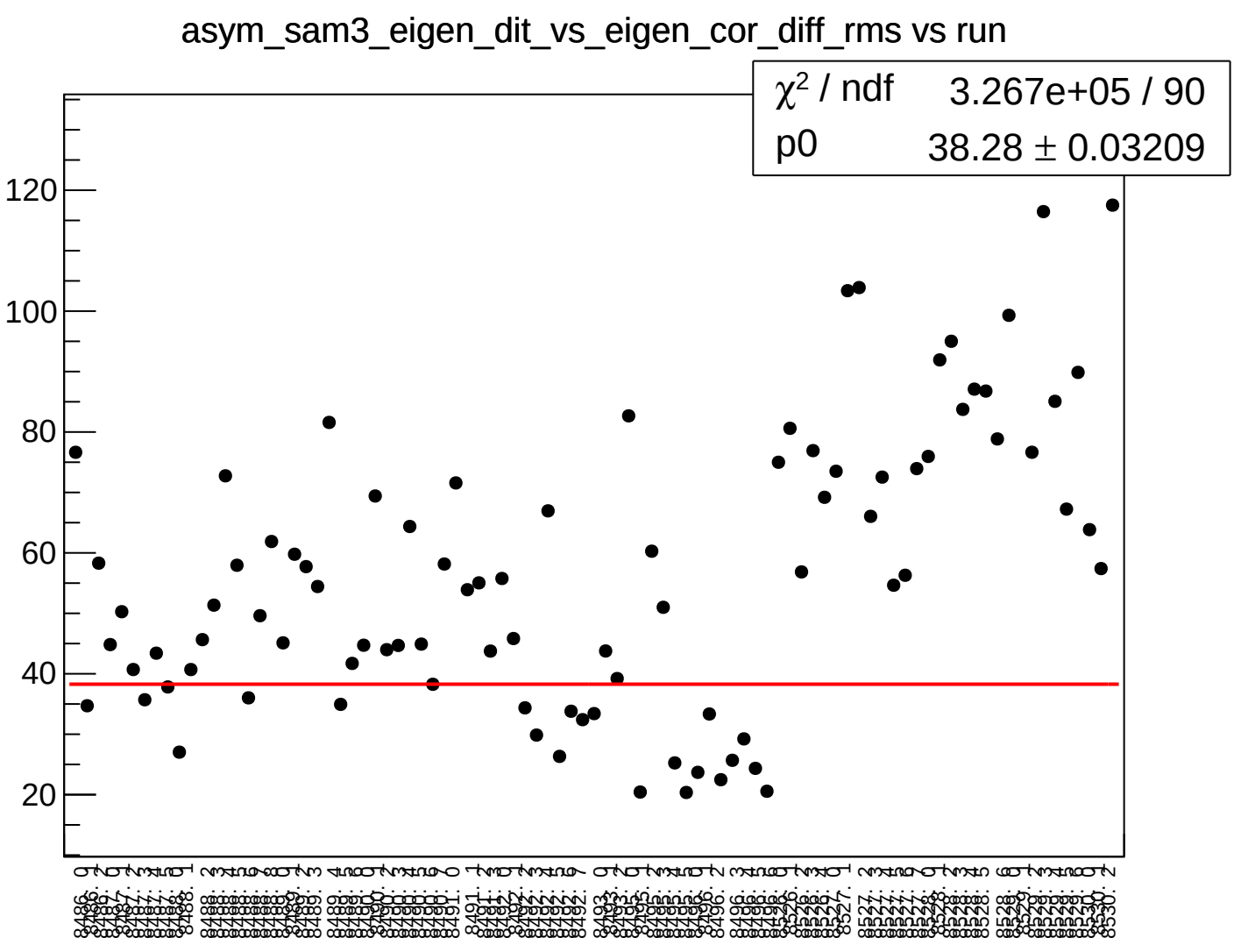

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.51 / 90
p0 1.007e−06 ± 1.604e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 91
Mean 914.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.002563
Std Dev 0.9693
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

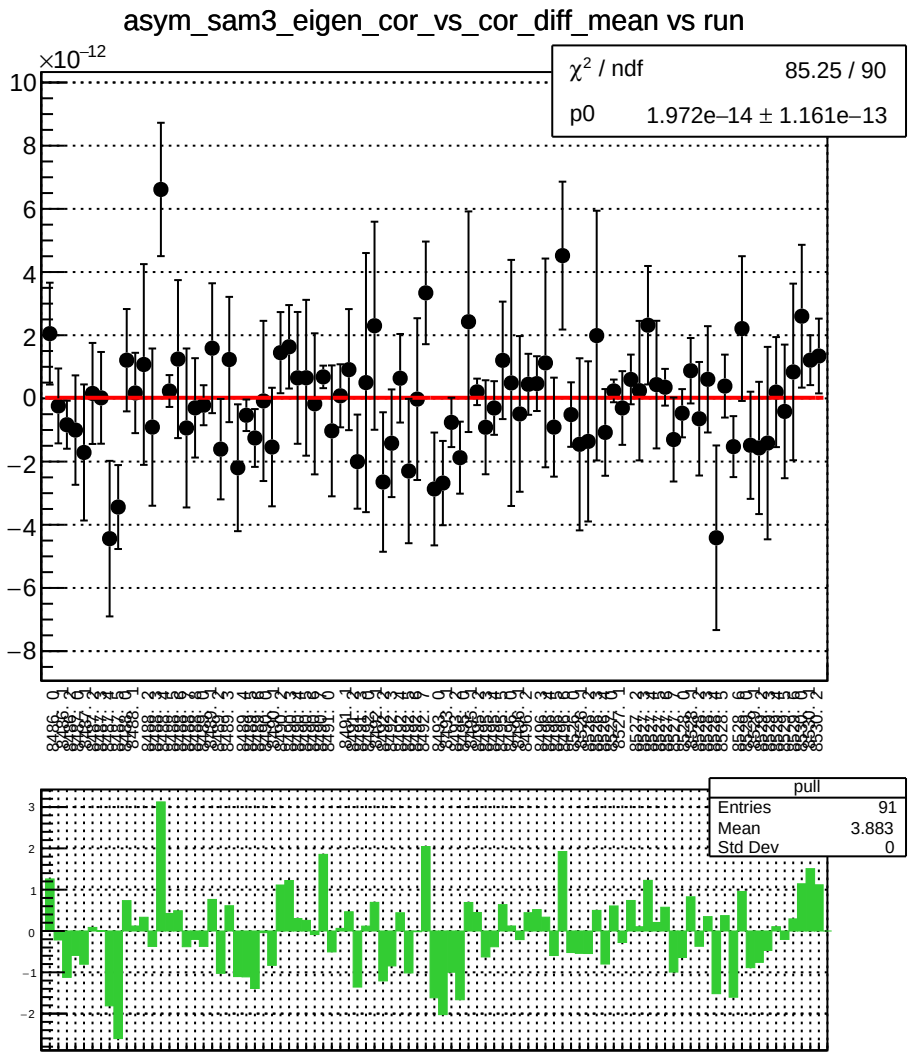

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3788 / 90
p0 0.001498 ± 1.134e−06
0.0017
0.00165
0.0016
0.00155
0.0015
0.00145
0.0014
0.00135

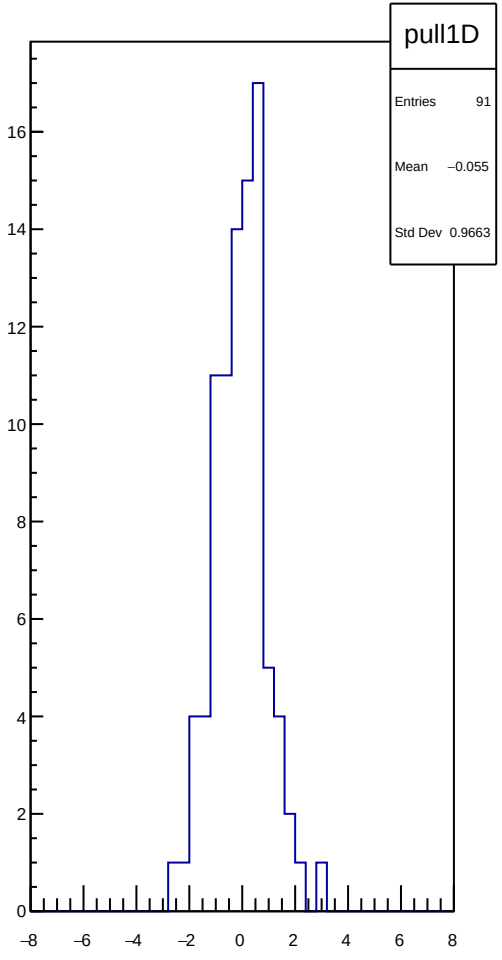

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.02 / 90
p0 0.00295 ± 0.04538
pull
Entries 91
Mean −1289
Std Dev 0
pull1D
Entries 91
Mean −0.0008521
Std Dev 0.9551

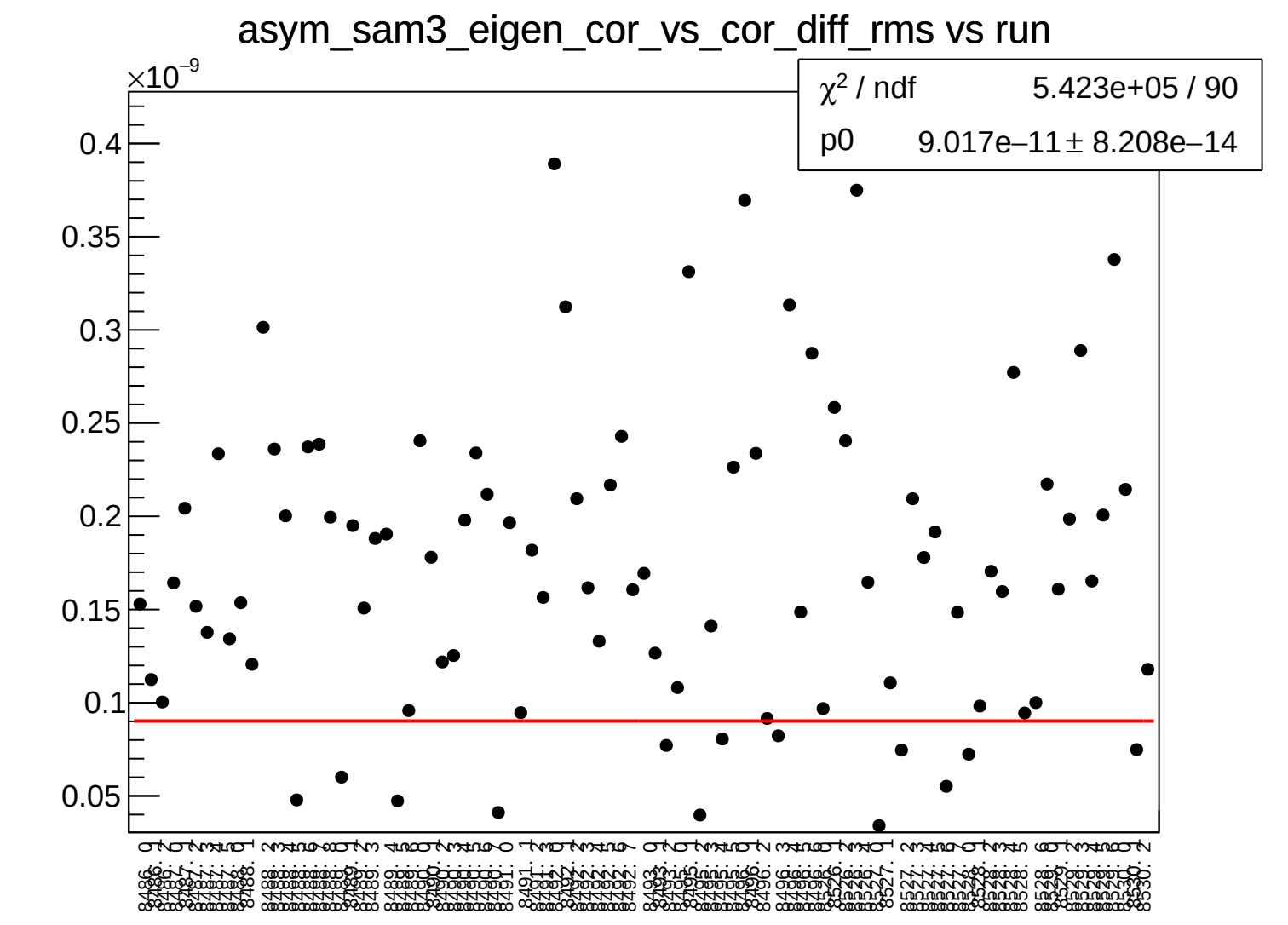

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.267e+05 / 90
p0 38.28 ± 0.03209
120
100
80
60
40
20

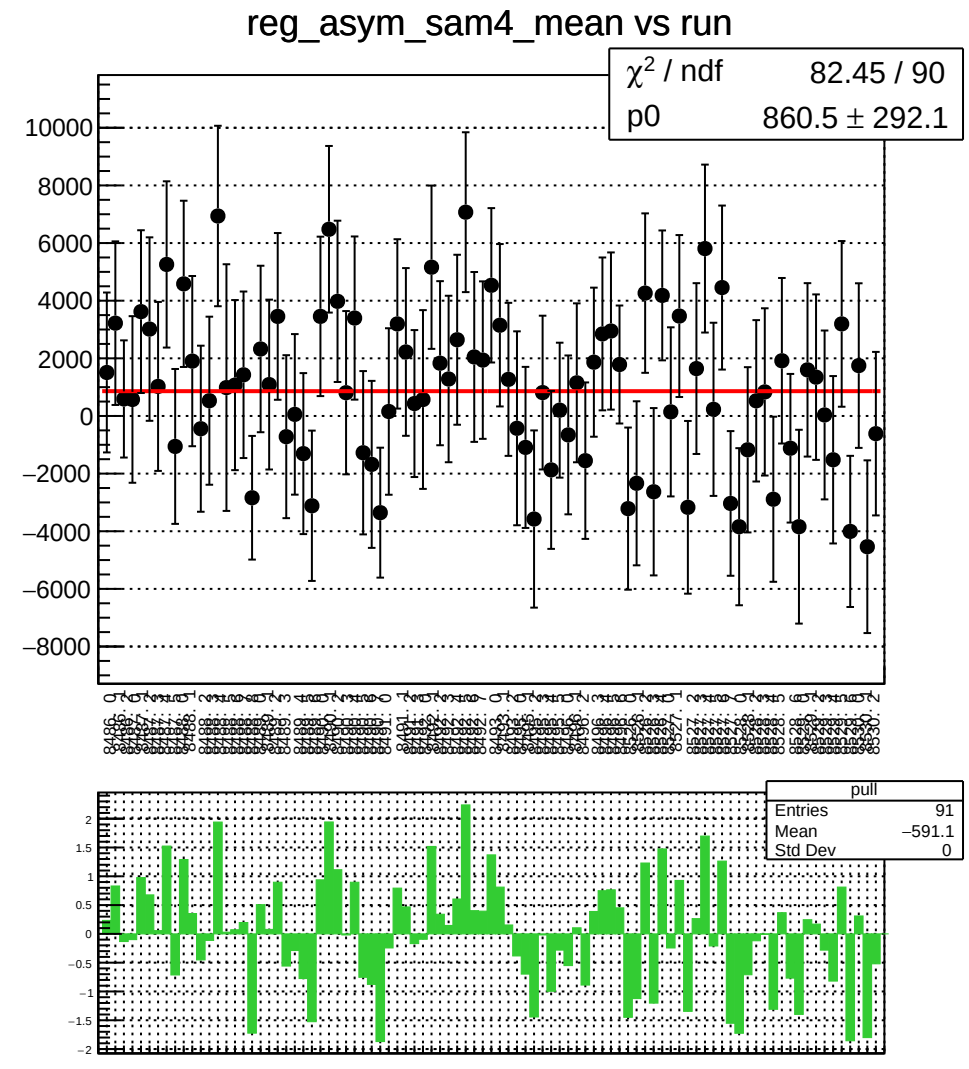

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.02 / 90
p0 0.00295 ± 0.04538
pull
Entries 91
Mean −1289
Std Dev 0
pull1D
Entries 91
Mean −0.0008521
Std Dev 0.9551

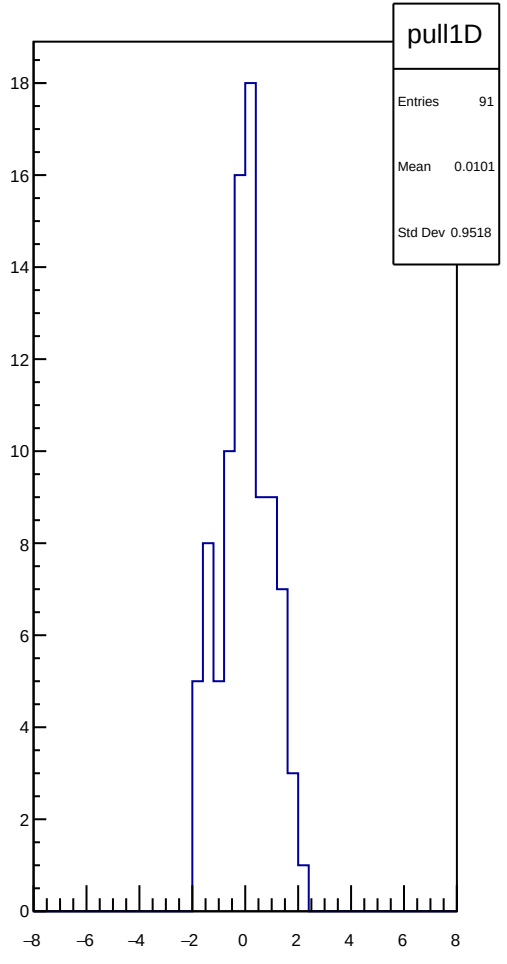

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.267e+05 / 90
p0 38.28 ± 0.03209
120
100
80
60
40
20

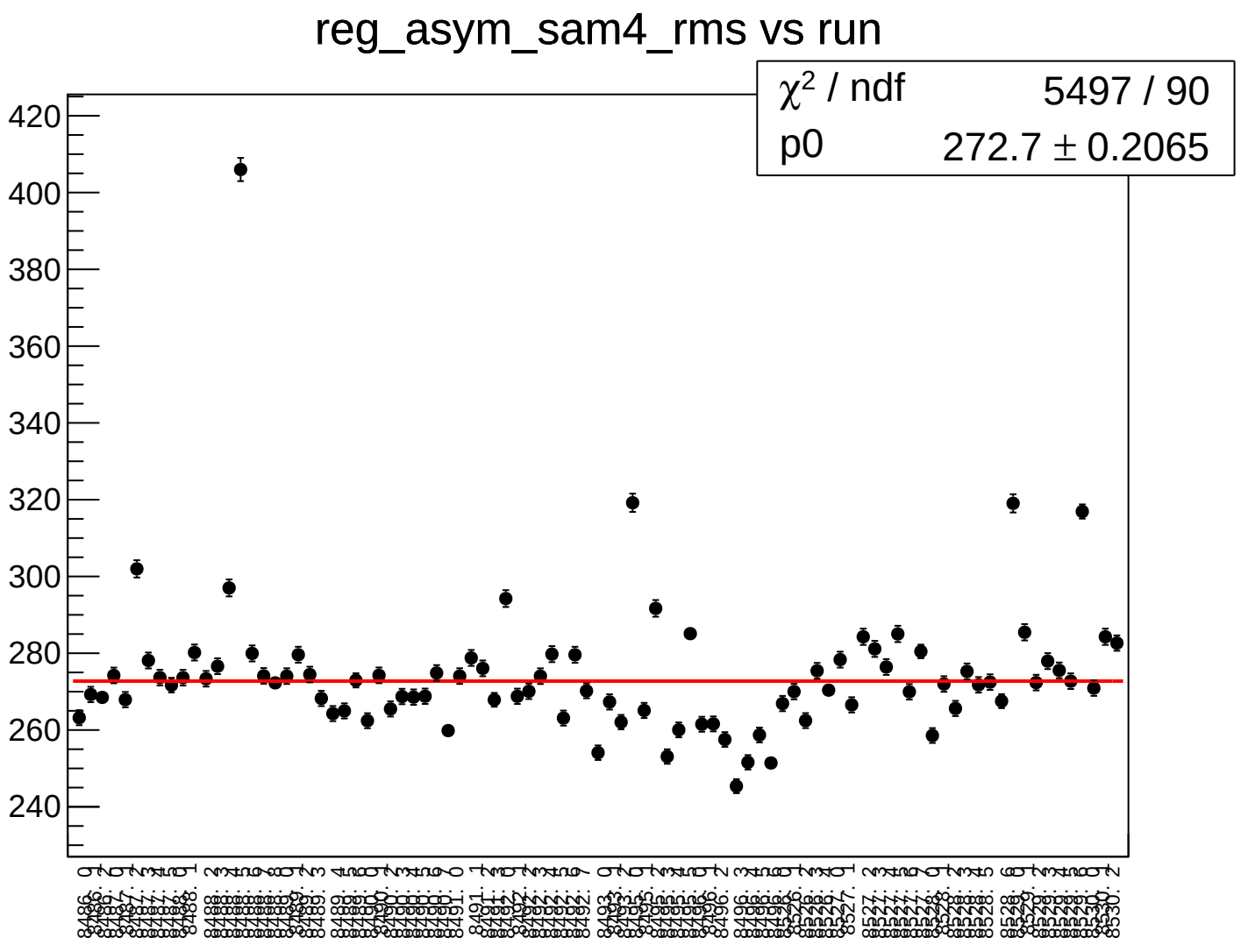

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.25 / 90
p0 1.972e−14 ± 1.161e−13
pull
Entries 91
Mean 3.883
Std Dev 0

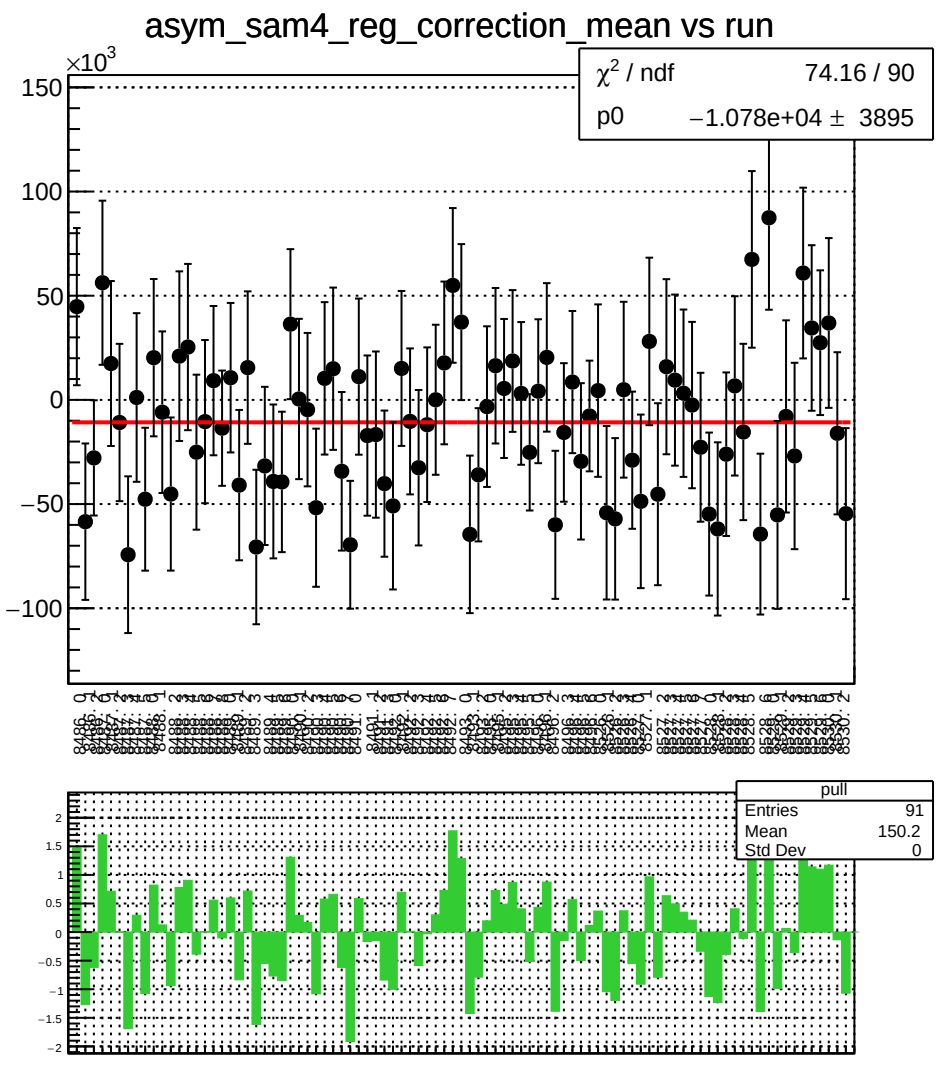

pull1D
Entries 91
Mean −0.055
Std Dev 0.9663

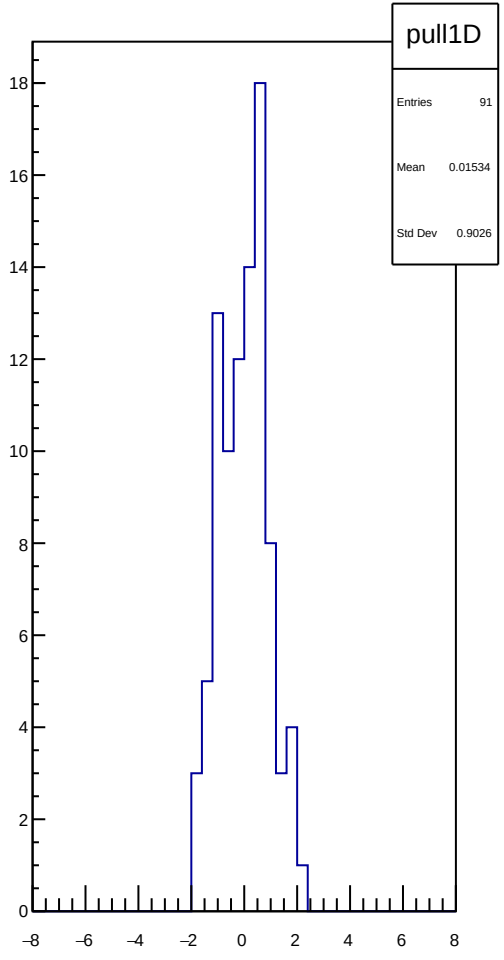

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.423e+05 / 90
p0 9.017e−11 ± 8.208e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

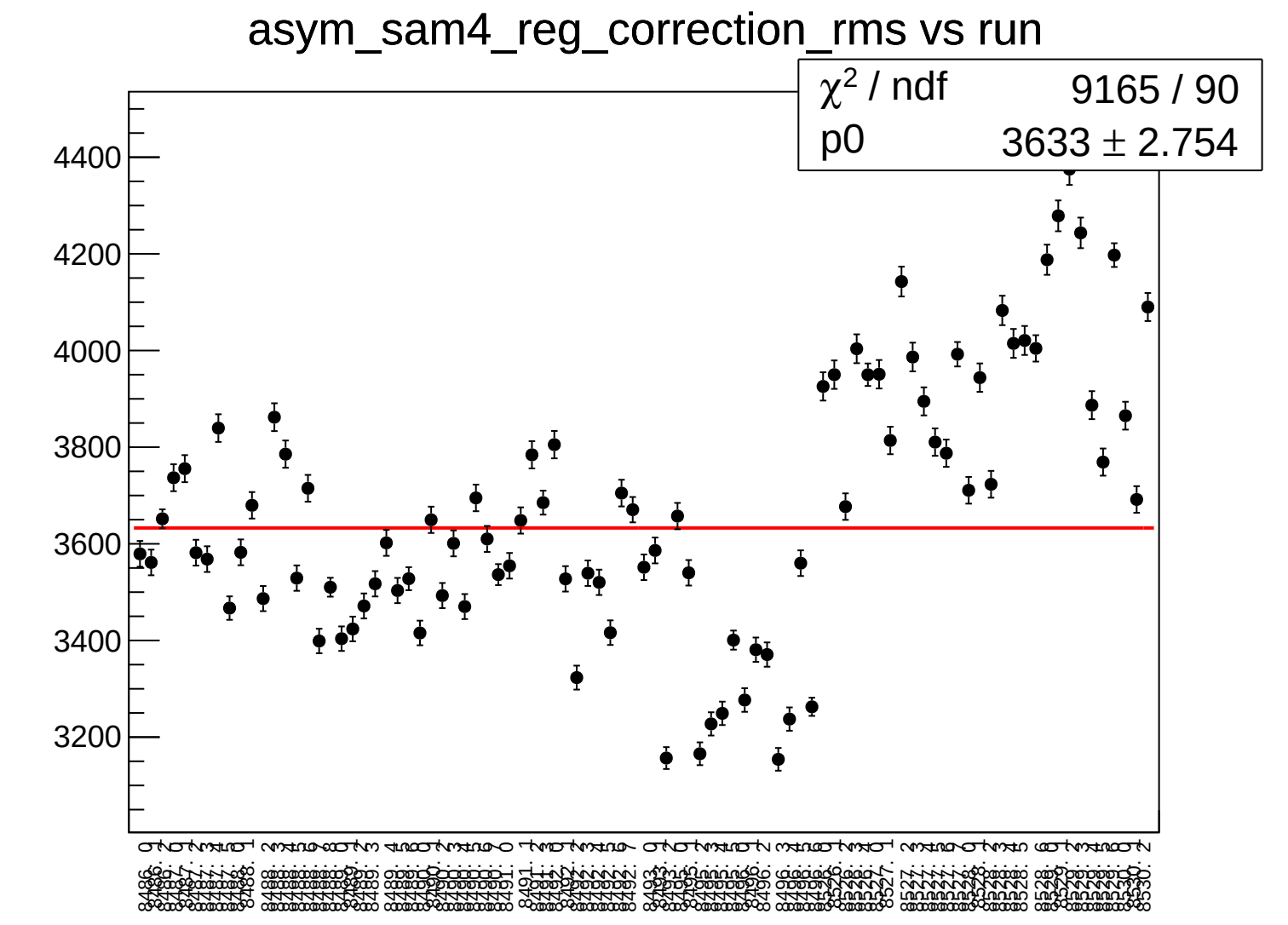

reg_asym_sam4_mean vs run
χ² / ndf 82.45 / 90
p0 860.5 ± 292.1
pull
Entries 91
Mean −591.1
Std Dev 0

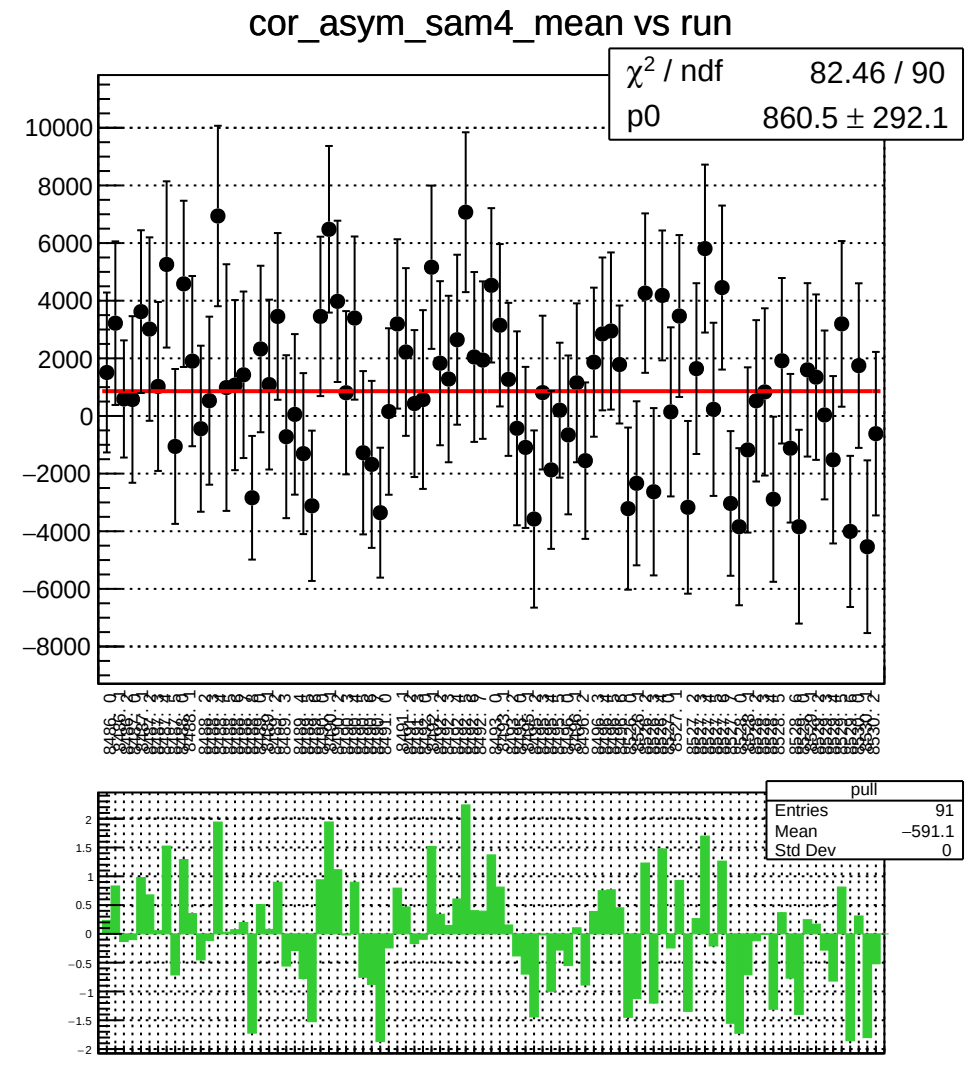

pull1D
Entries 91
Mean 0.0101
Std Dev 0.9518

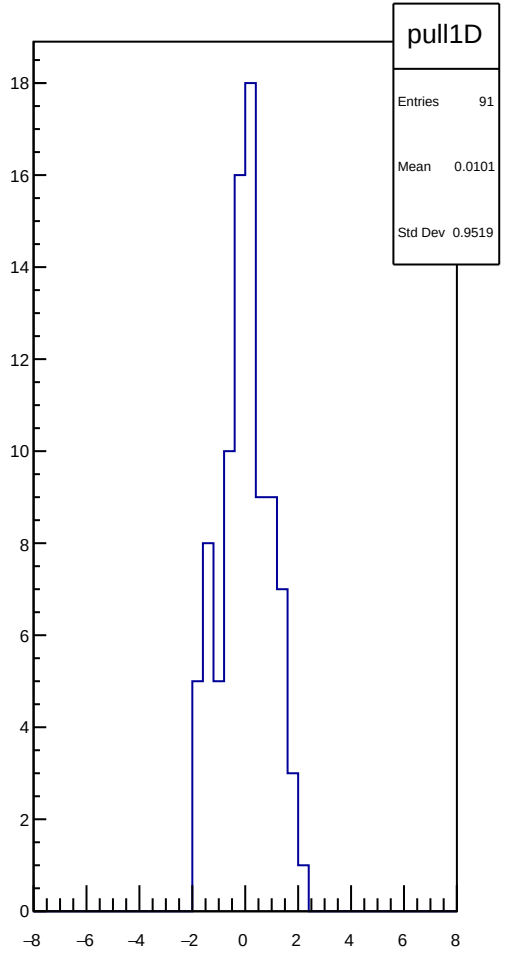

reg_asym_sam4_rms vs run
χ² / ndf 5497 / 90
p0 272.7 ± 0.2065
420
400
380
360
340
320
300
280
260
240

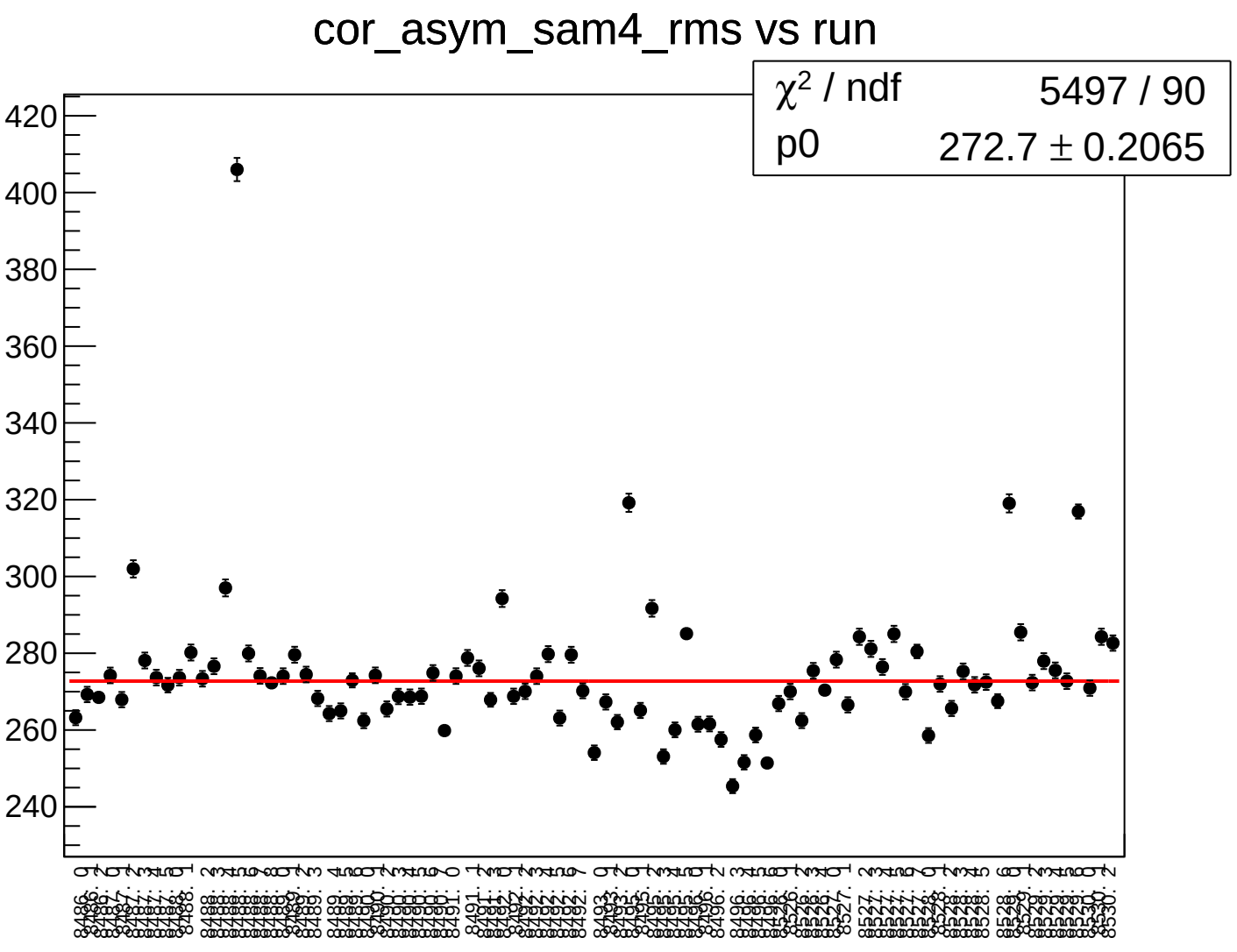

asym_sam4_reg_correction_mean vs run
×10^3
χ² / ndf 74.16 / 90
p0 −1.078e+04 ± 3895
150
100
50
0
−50
−100
pull
Entries 91
Mean 150.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

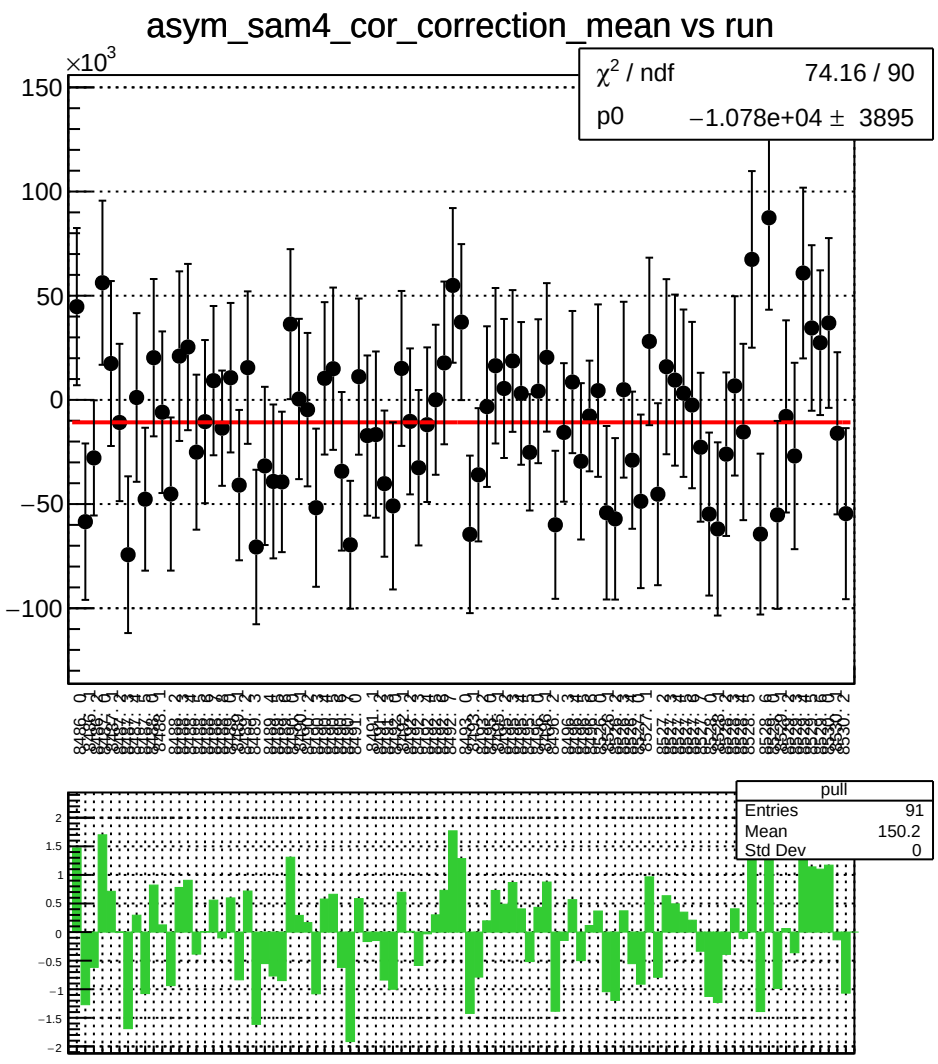

pull1D
Entries 91
Mean 0.01534
Std Dev 0.9026
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

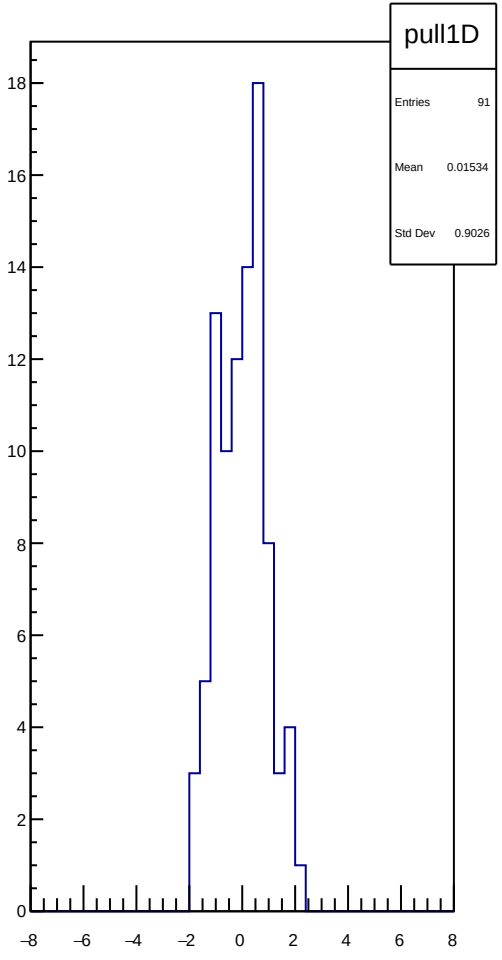

asym_sam4_reg_correction_rms vs run
χ² / ndf 9165 / 90
p0 3633 ± 2.754
4400
4200
4000
3800
3600
3400
3200

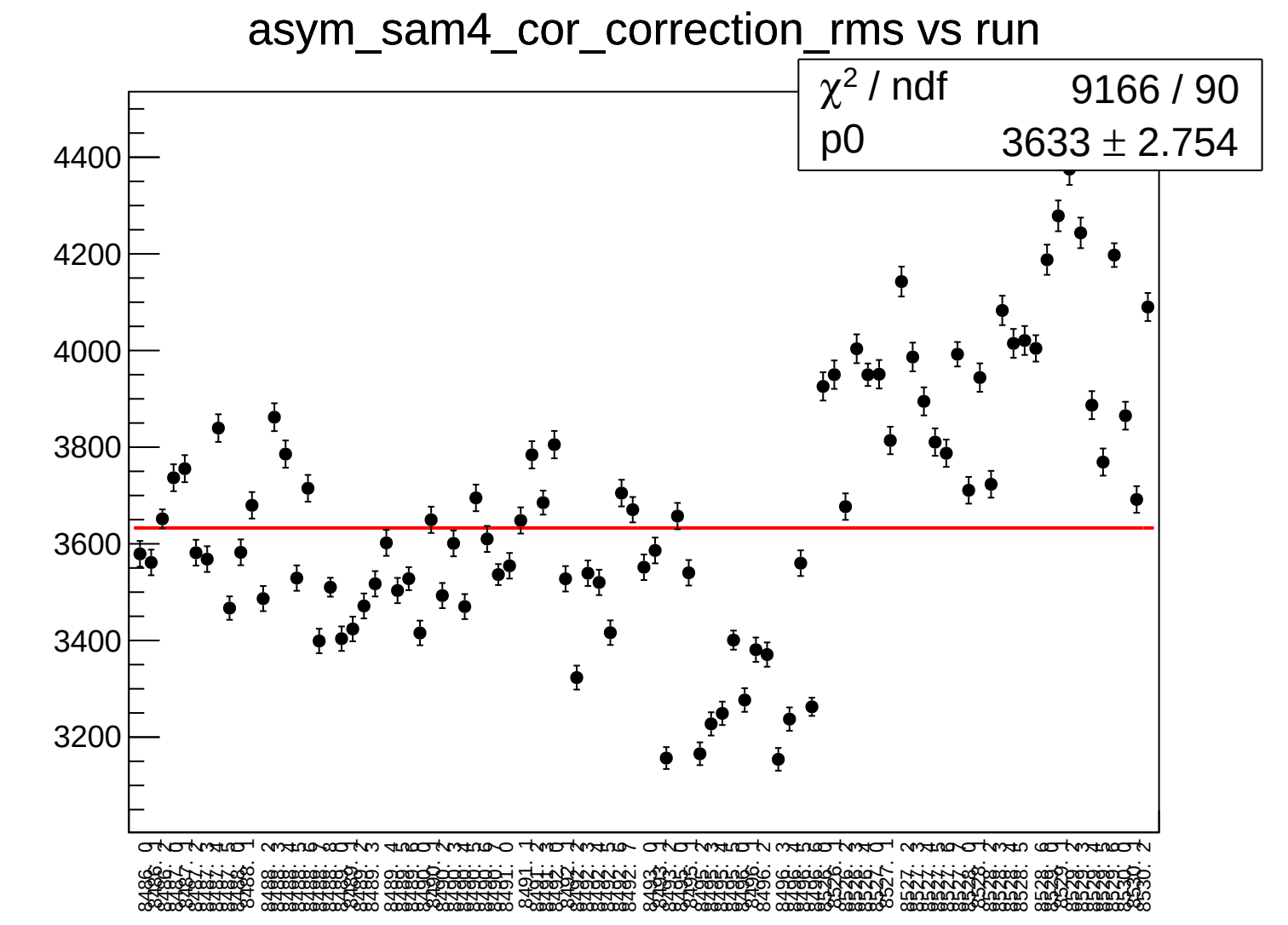

cor_asym_sam4_mean vs run
χ² / ndf 82.46 / 90
p0 860.5 ± 292.1
pull
Entries 91
Mean −591.1
Std Dev 0

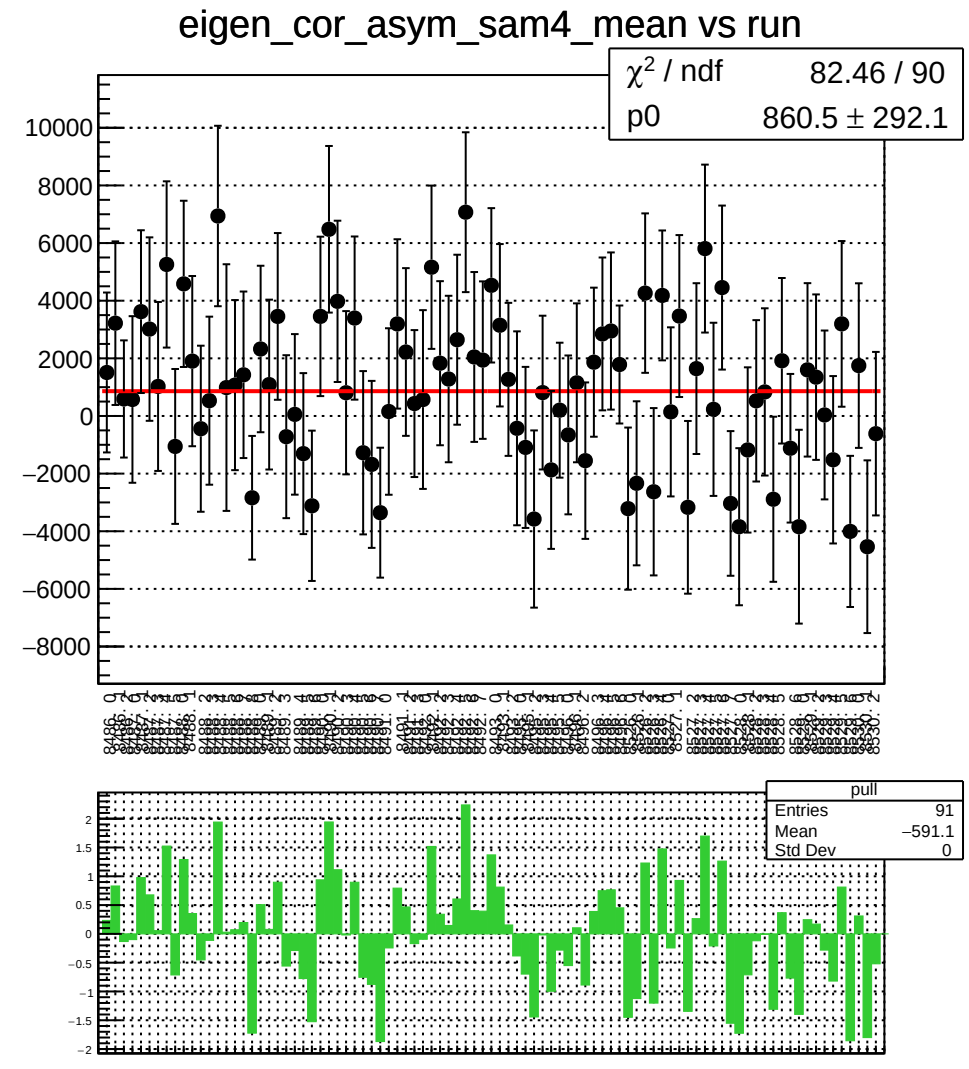

pull1D
Entries 91
Mean 0.0101
Std Dev 0.9519

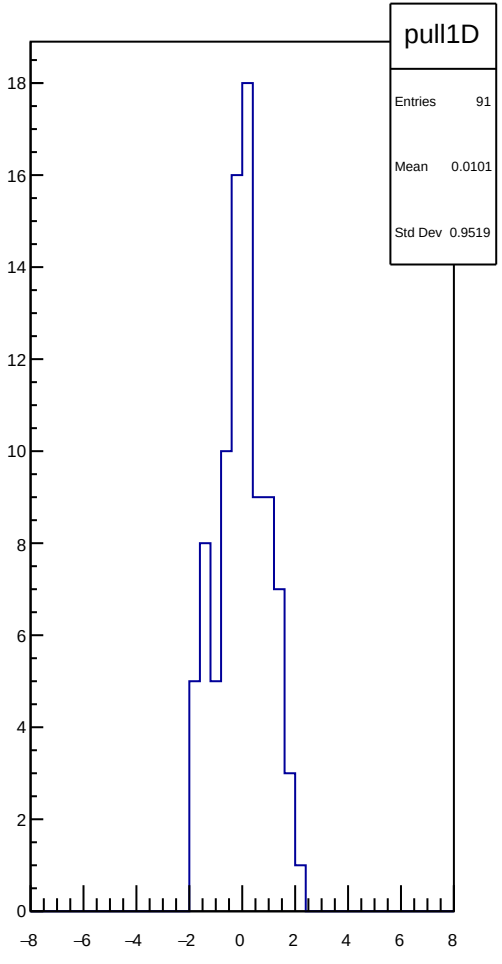

cor_asym_sam4_rms vs run
χ² / ndf 5497 / 90
p0 272.7 ± 0.2065
420
400
380
360
340
320
300
280
260
240

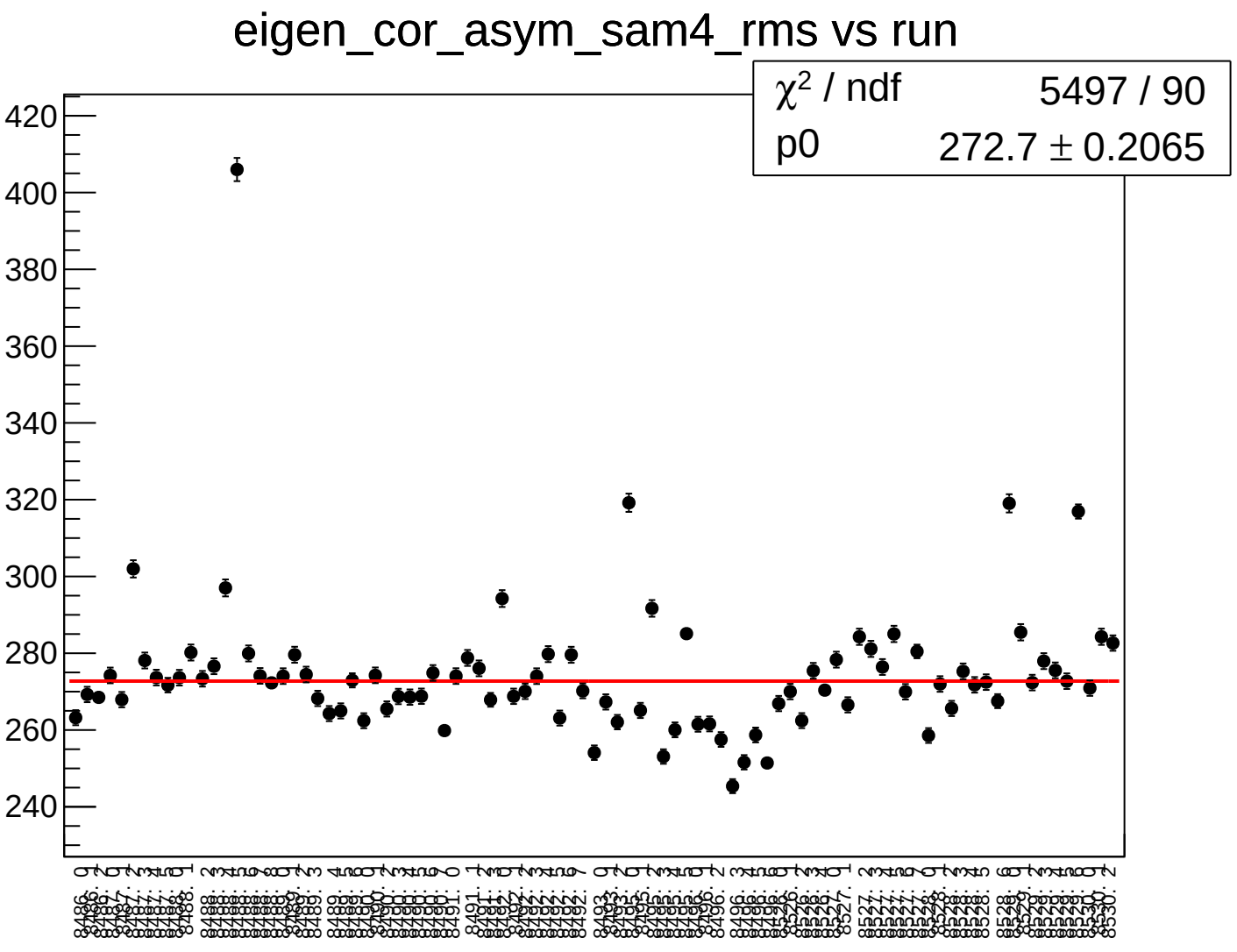

asym_sam4_cor_correction_mean vs run
×10^3
χ² / ndf 74.16 / 90
p0 −1.078e+04 ± 3895
pull
Entries 91
Mean 150.2
Std Dev 0

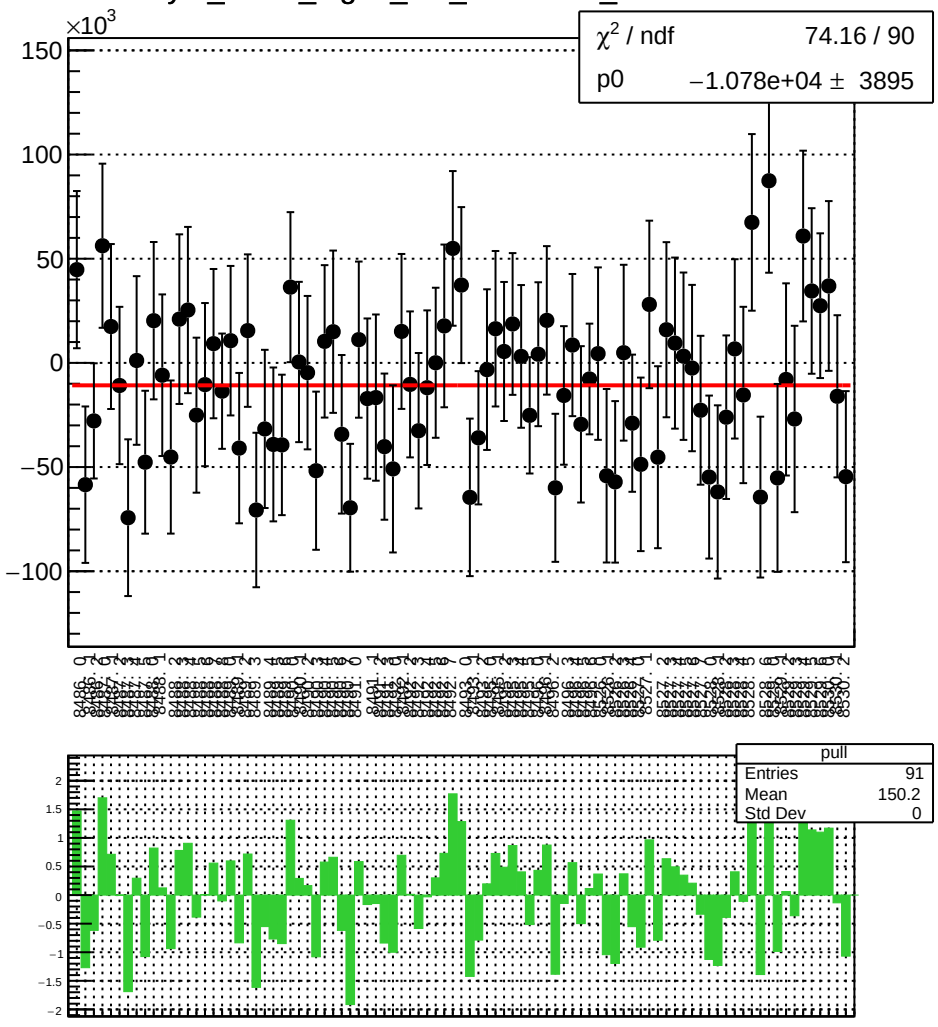

pull1D
Entries 91
Mean 0.01534
Std Dev 0.9026

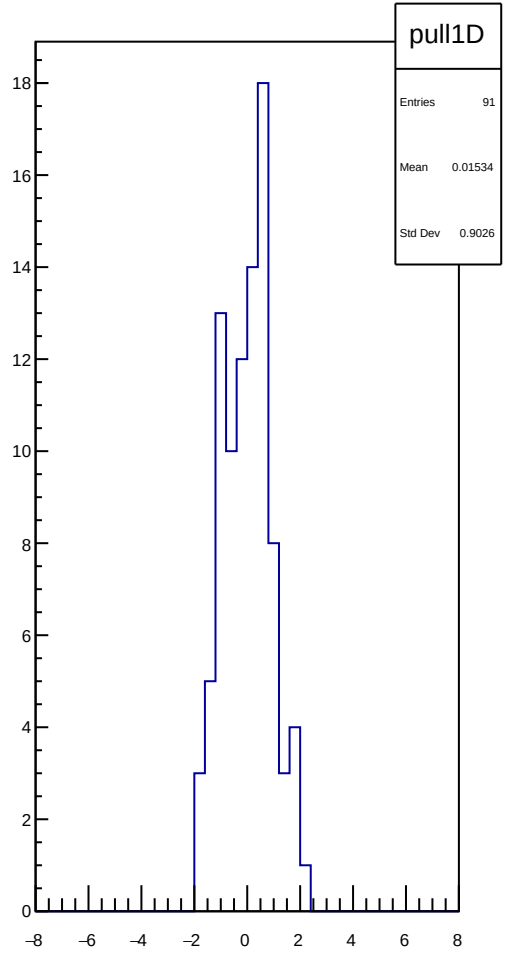

asym_sam4_cor_correction_rms vs run
χ² / ndf 9166 / 90
p0 3633 ± 2.754
4400
4200
4000
3800
3600
3400
3200

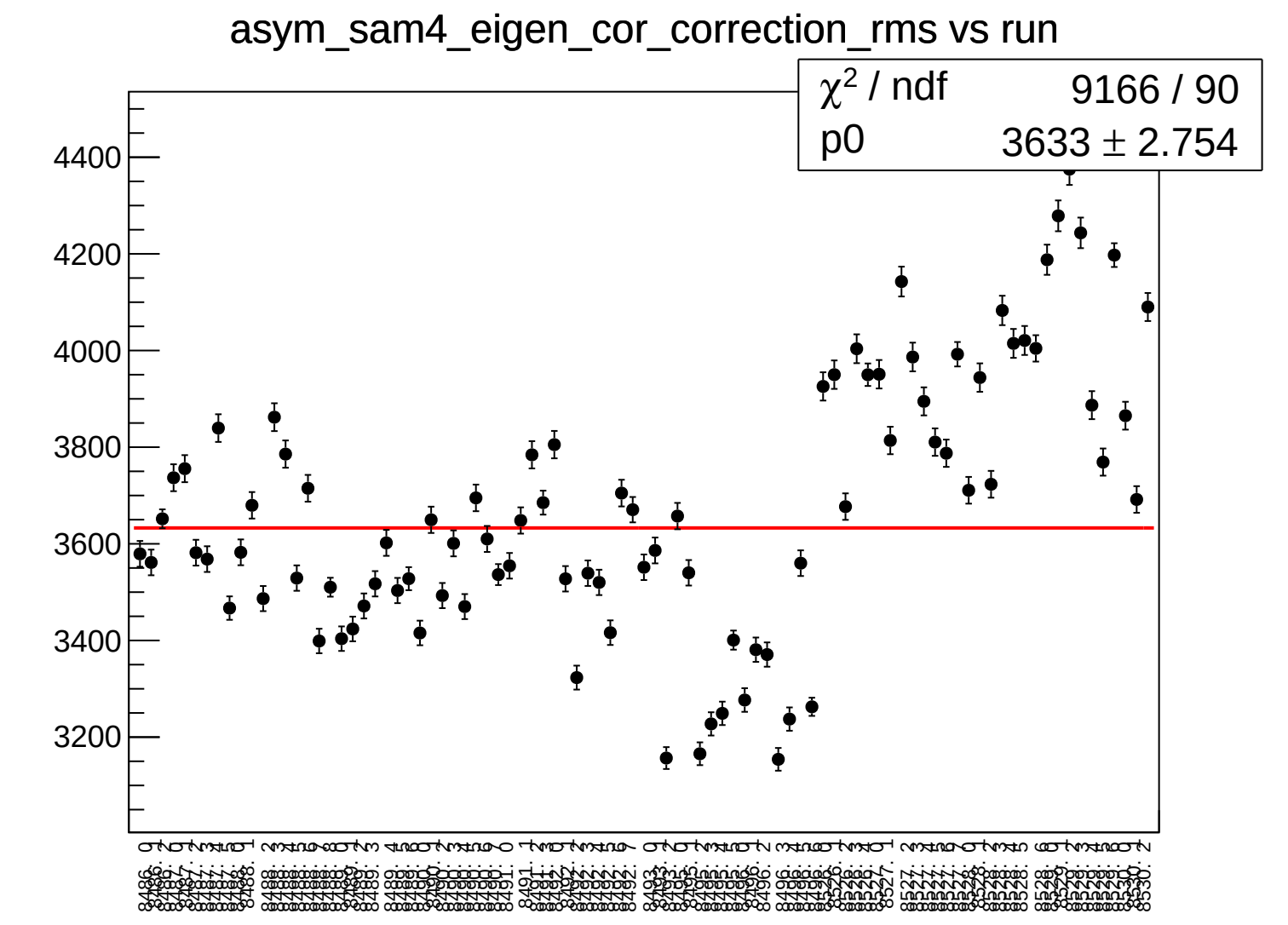

eigen_cor_asym_sam4_mean vs run
χ² / ndf 82.46 / 90
p0 860.5 ± 292.1
pull
Entries 91
Mean −591.1
Std Dev 0

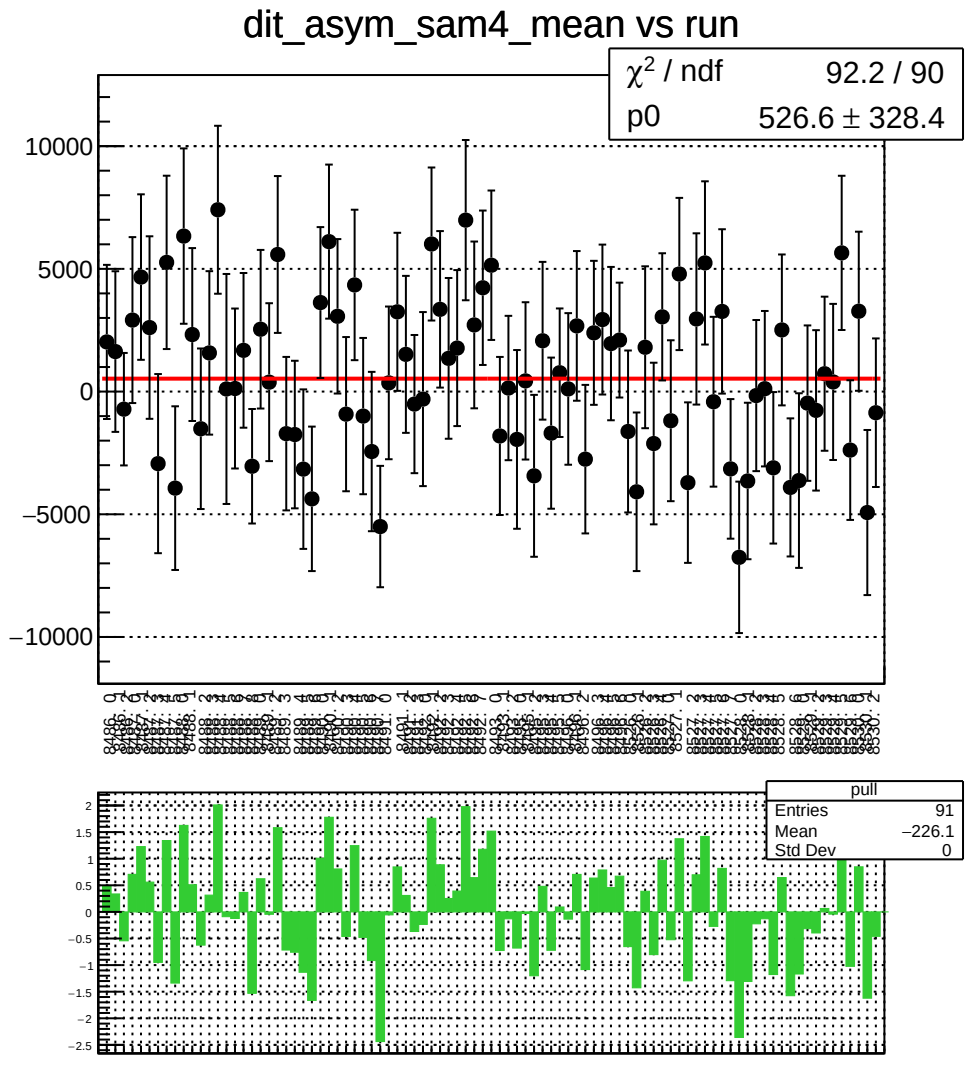

pull1D
Entries 91
Mean 0.0101
Std Dev 0.9519

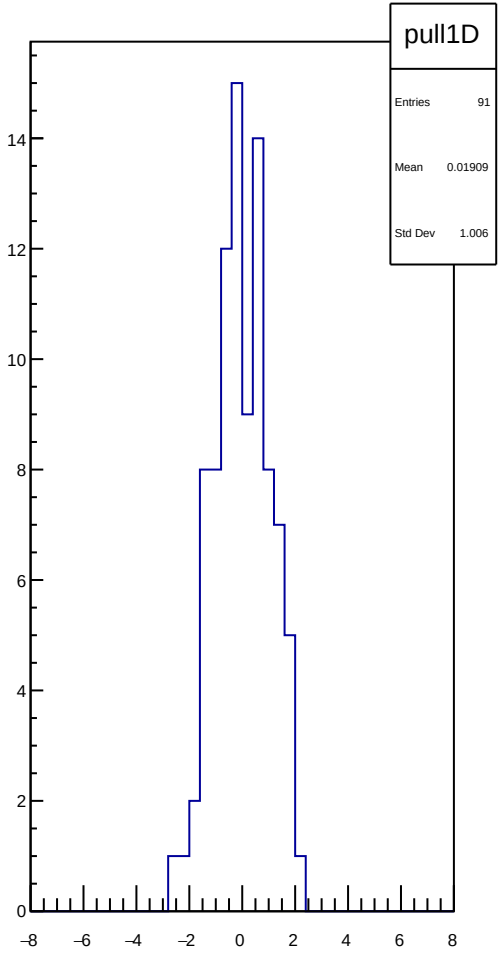

eigen_cor_asym_sam4_rms vs run
χ² / ndf 5497 / 90
p0 272.7 ± 0.2065
420
400
380
360
340
320
300
280
260
240

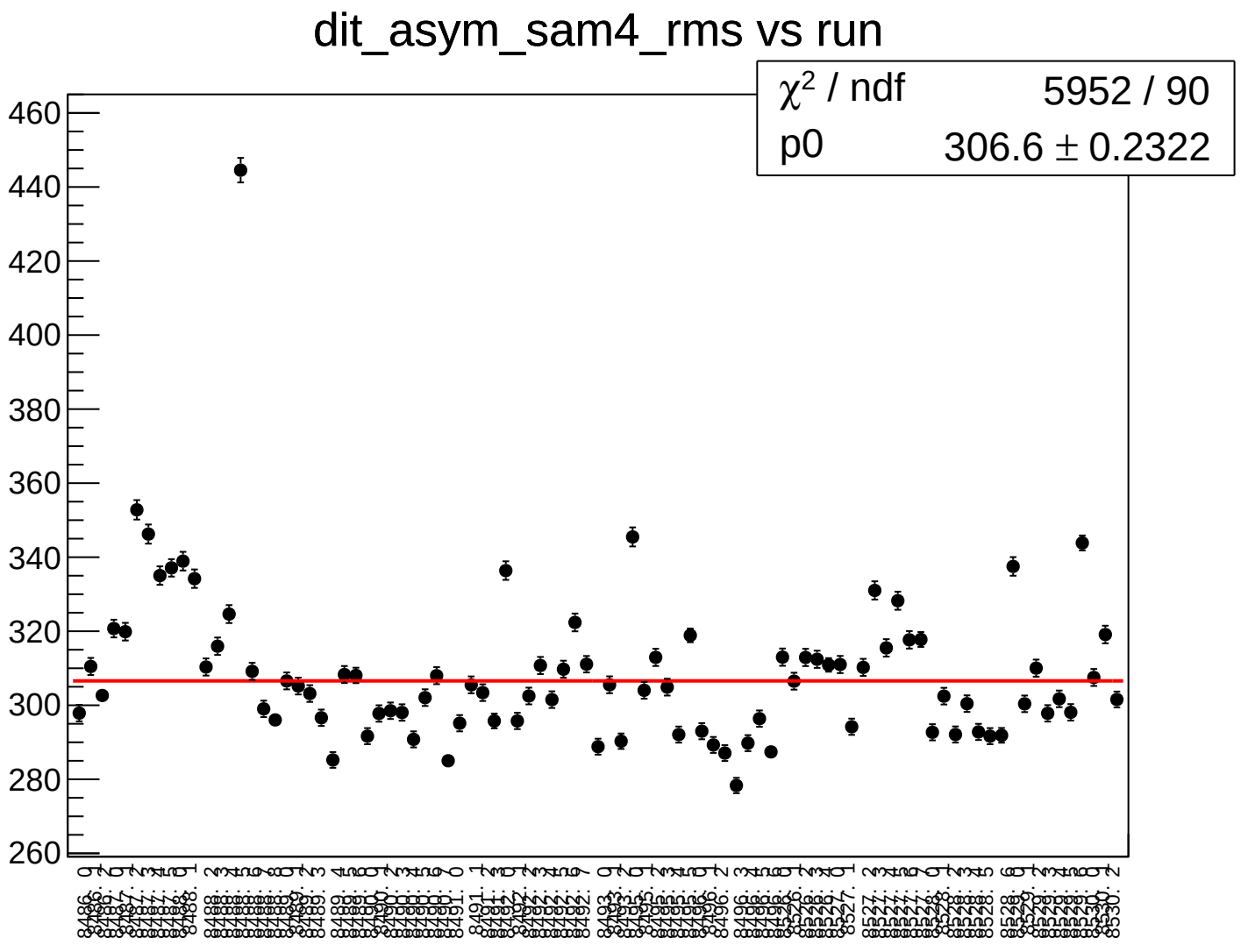

asym_sam4_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 74.16 / 90
p0 −1.078e+04 ± 3895
150
100
50
0
−50
−100
pull
Entries 91
Mean 150.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

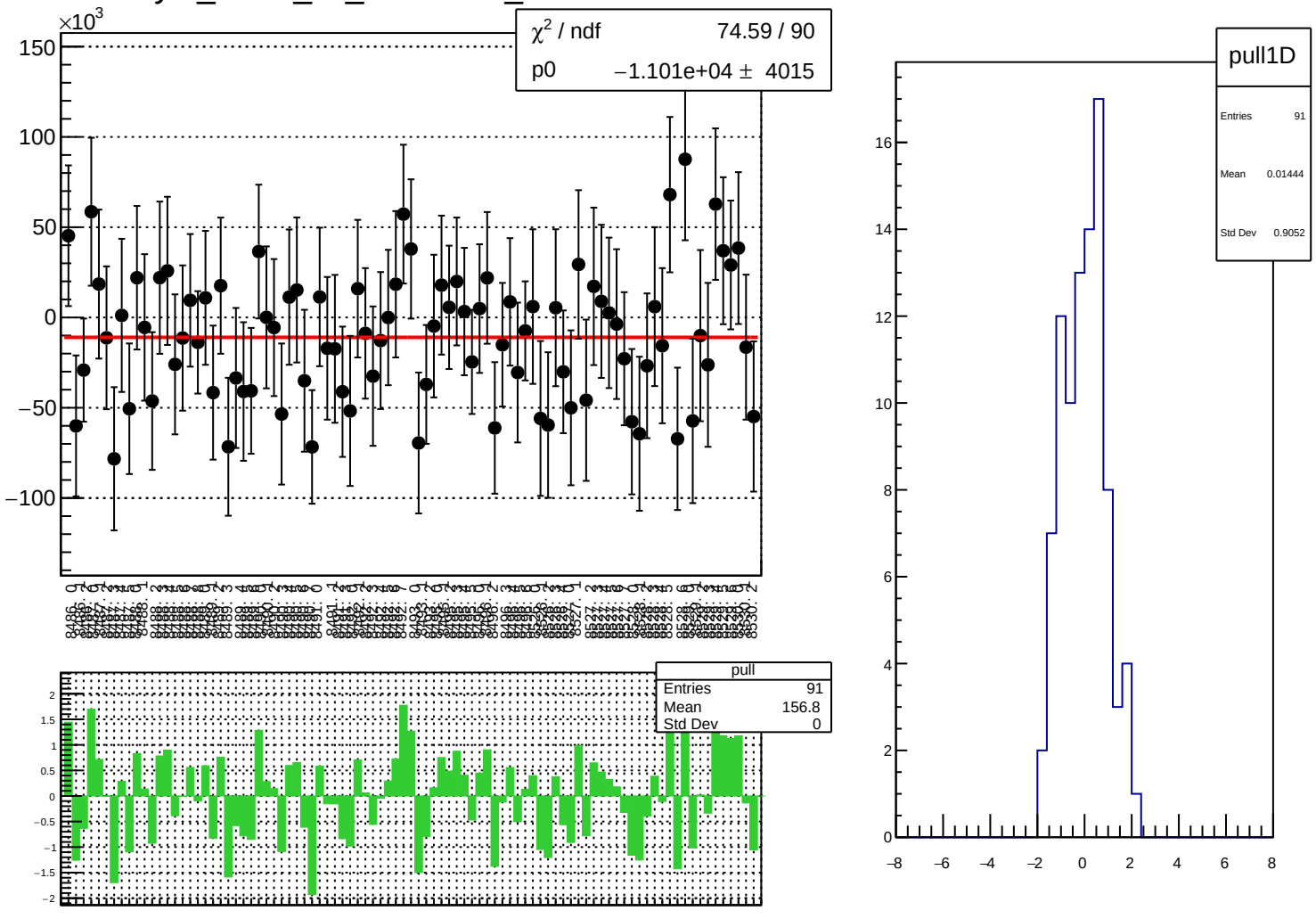

pull1D
Entries 91
Mean 0.01534
Std Dev 0.9026
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

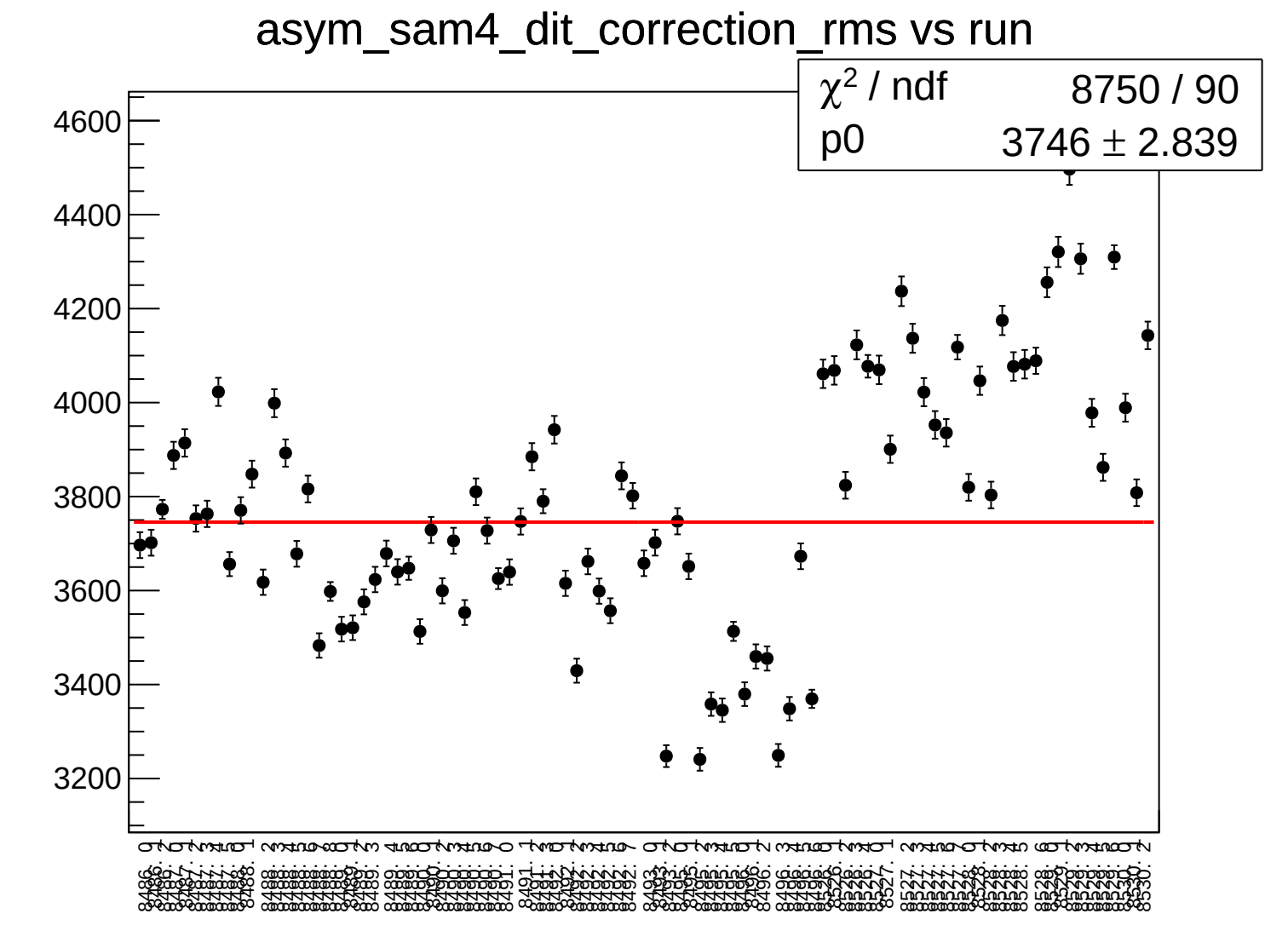

asym_sam4_eigen_cor_correction_rms vs run
χ^2 / ndf 9166 / 90
p0 3633 ± 2.754
4400
4200
4000
3800
3600
3400
3200

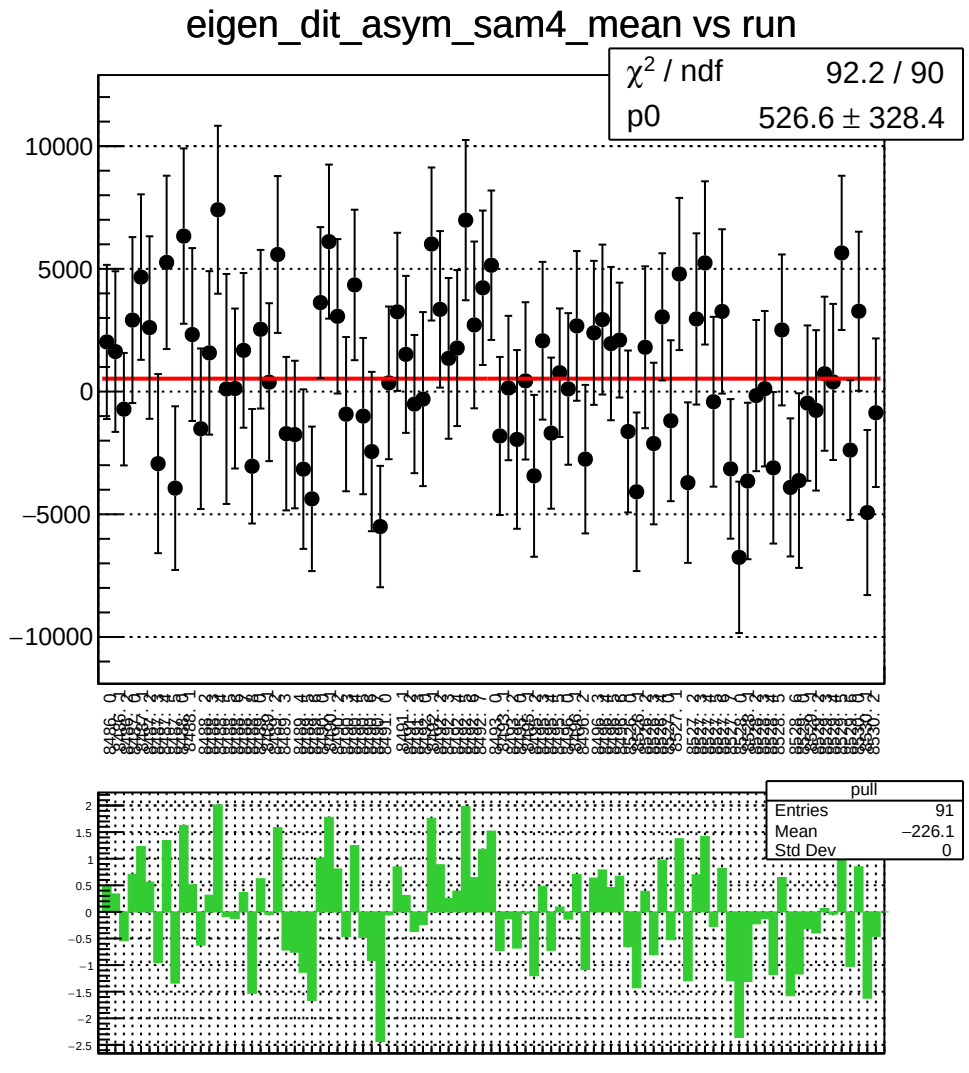

dit_asym_sam4_mean vs run
χ² / ndf 92.2 / 90
p0 526.6 ± 328.4
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −226.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

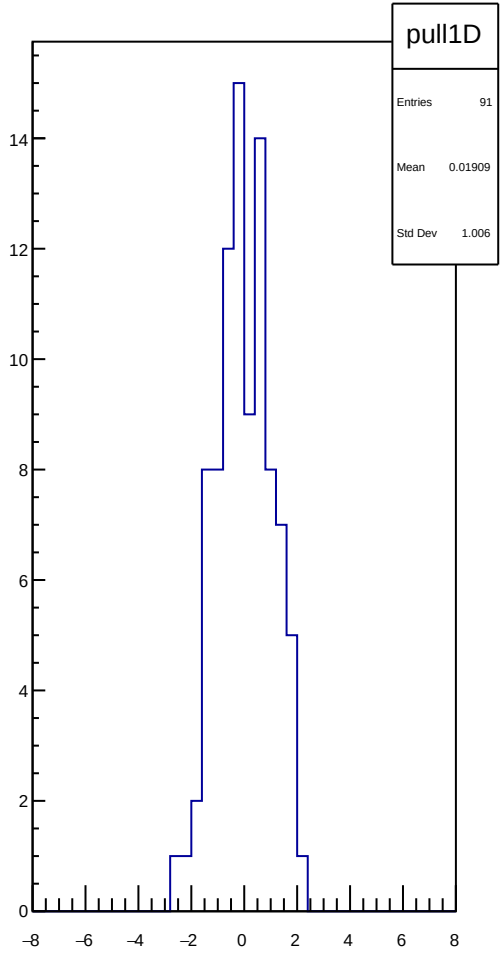

pull1D
Entries 91
Mean 0.01909
Std Dev 1.006
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

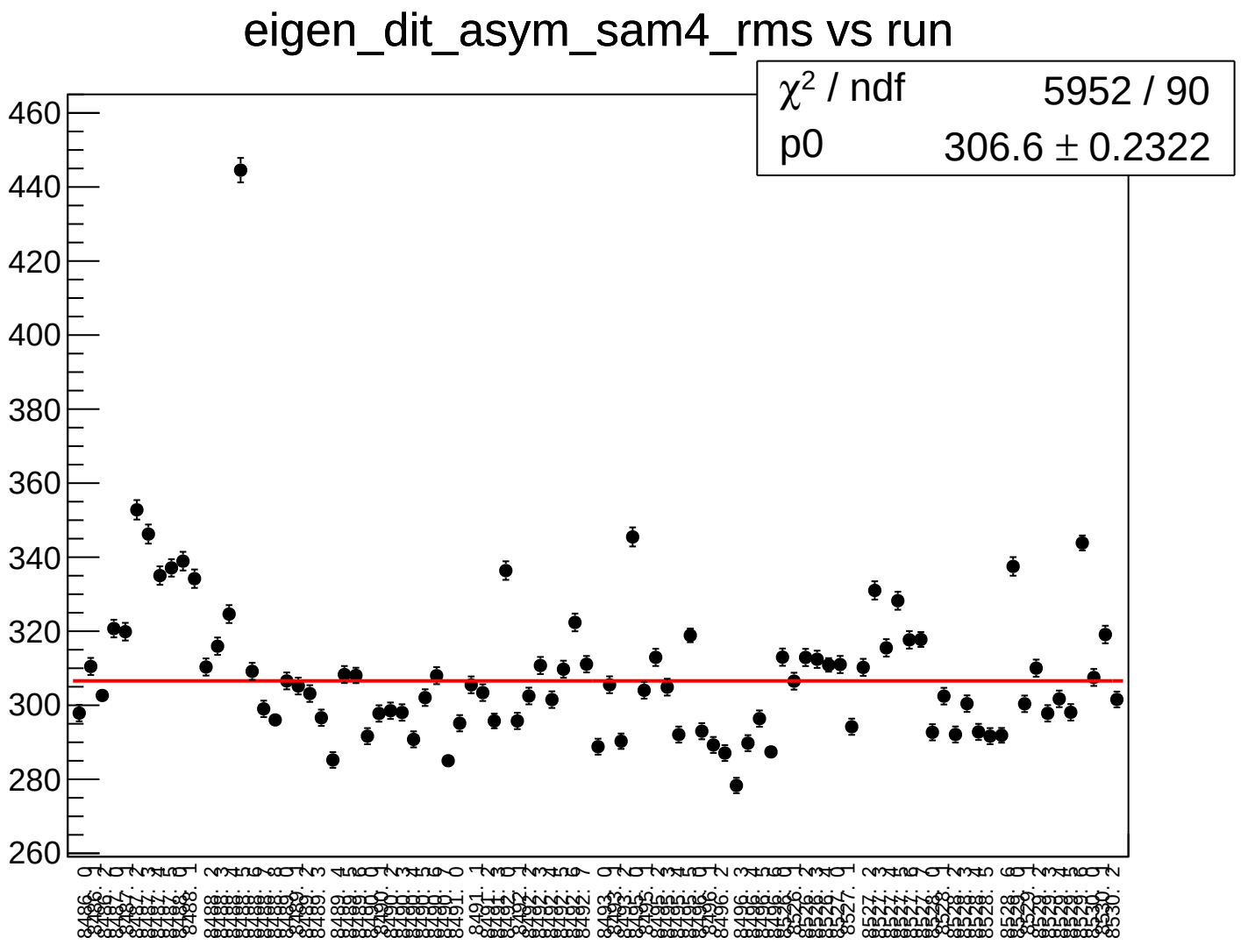

dit_asym_sam4_rms vs run
χ² / ndf 5952 / 90
p0 306.6 ± 0.2322
460
440
420
400
380
360
340
320
300
280
260

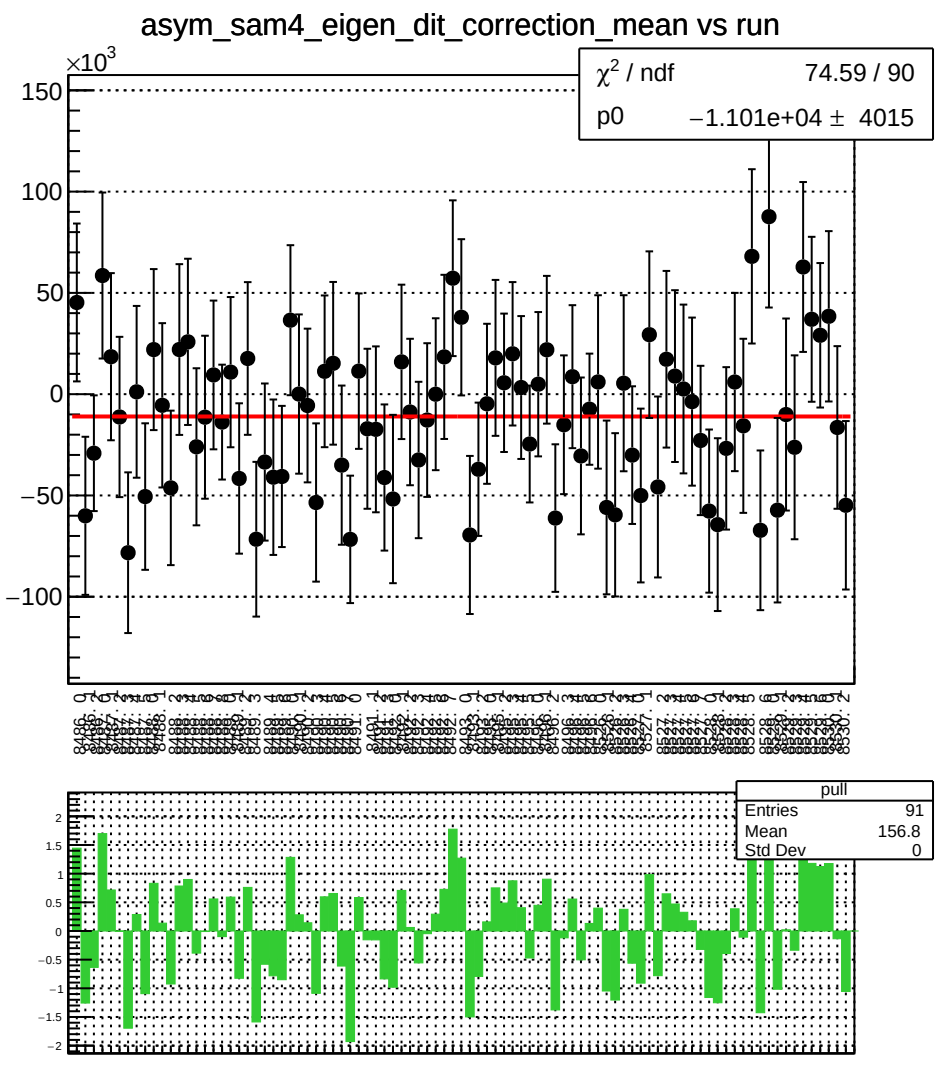

asym_sam4_dit_correction_mean vs run
×10^3
χ² / ndf 74.59 / 90
p0 −1.101e+04 ± 4015
150
100
50
0
−50
−100
pull
Entries 91
Mean 156.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 91
Mean 0.01444
Std Dev 0.9052
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

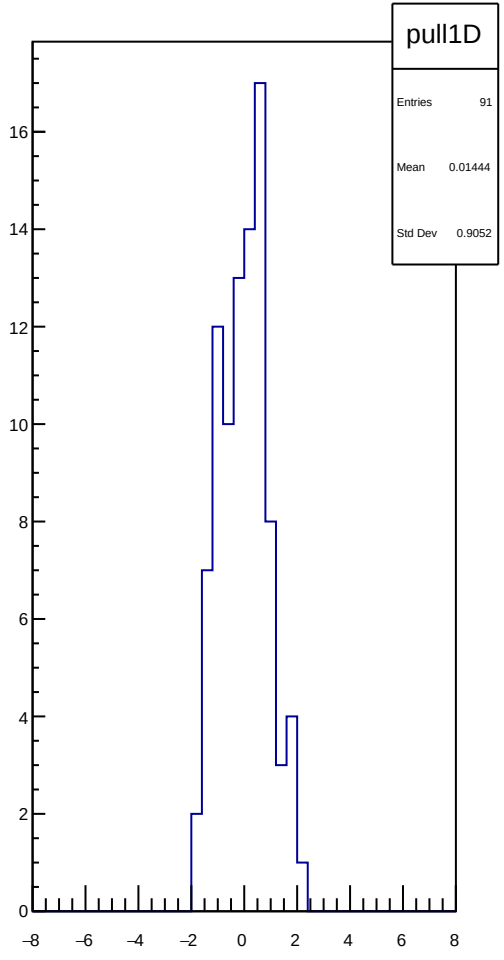

asym_sam4_dit_correction_rms vs run
χ² / ndf 8750 / 90
p0 3746 ± 2.839
4600
4400
4200
4000
3800
3600
3400
3200

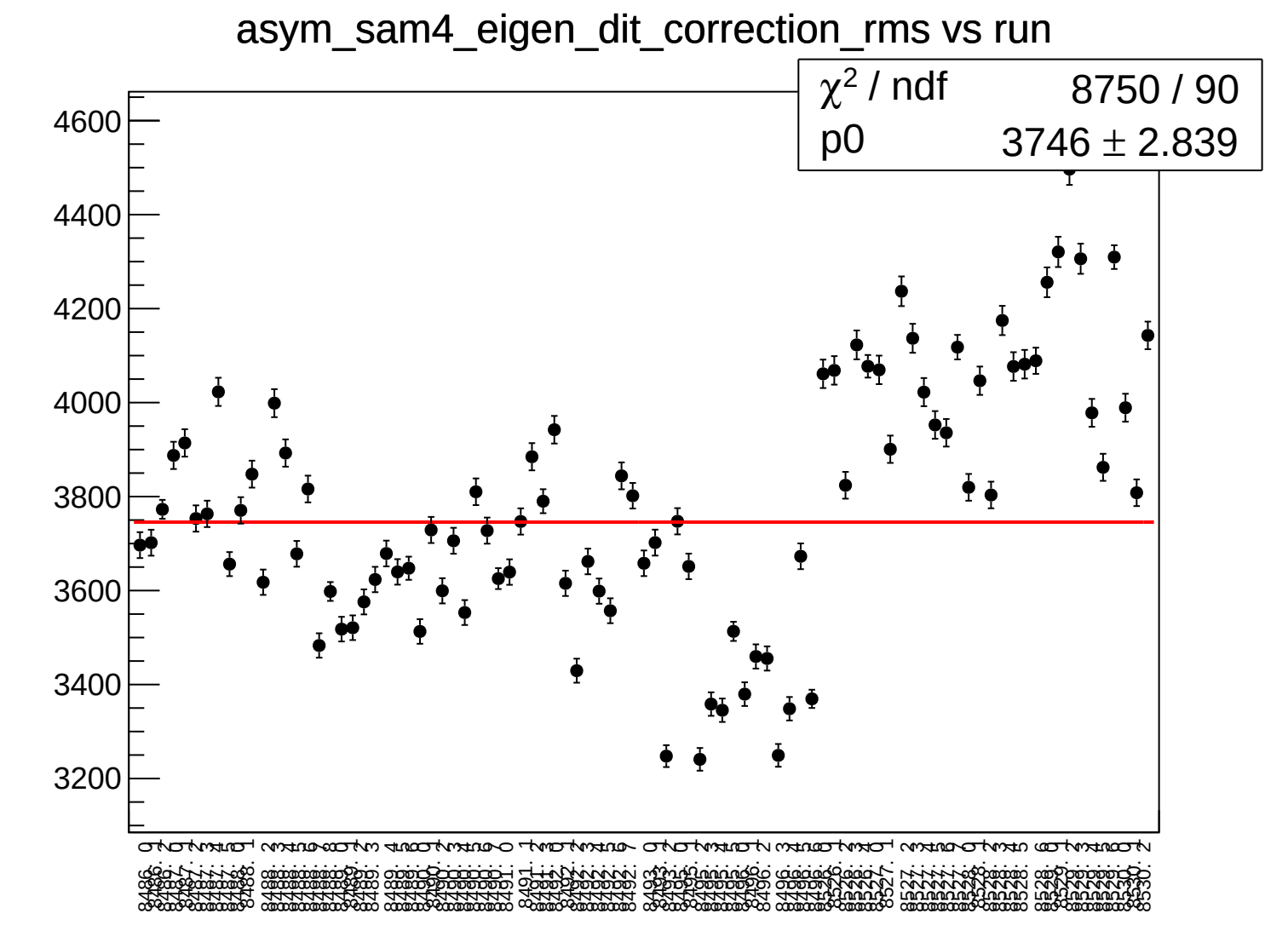

eigen_dit_asym_sam4_mean vs run
χ^2 / ndf 92.2 / 90
p0 526.6 ± 328.4
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −226.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

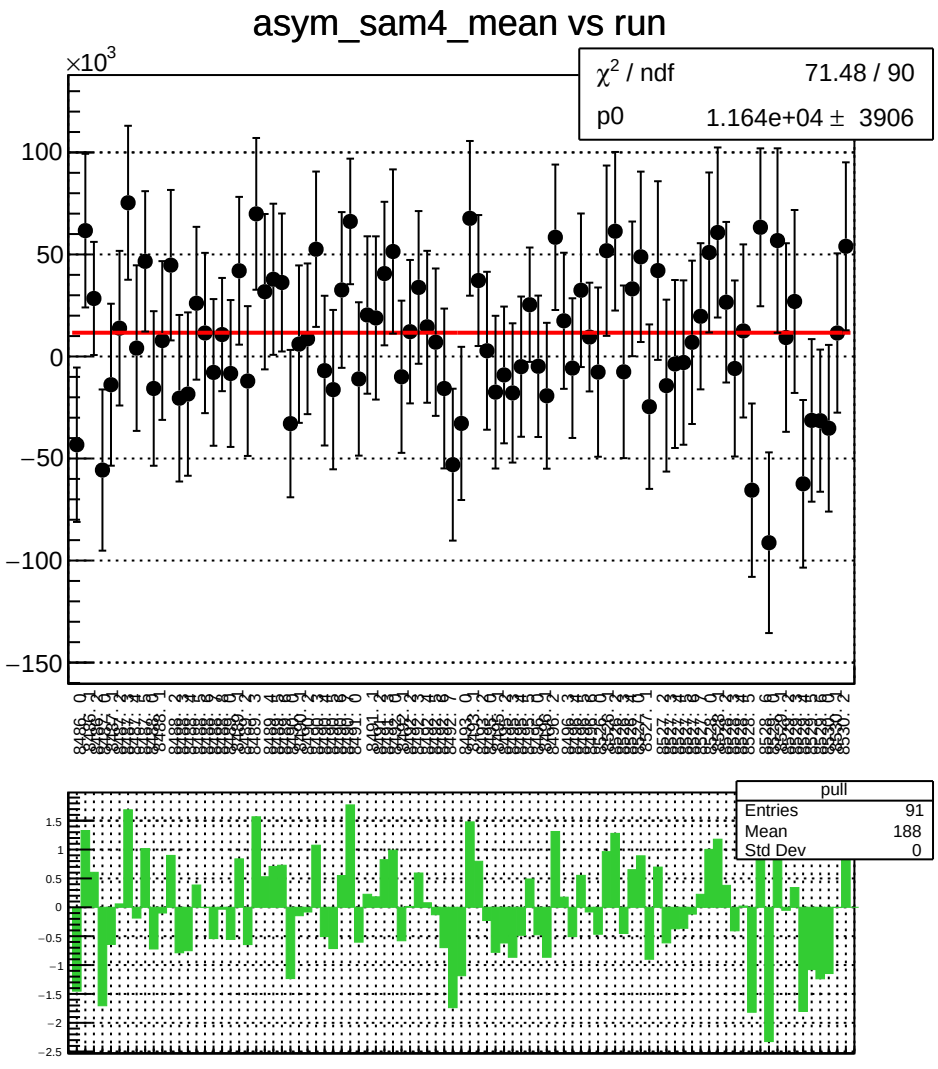

pull1D
Entries 91
Mean 0.01909
Std Dev 1.006
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

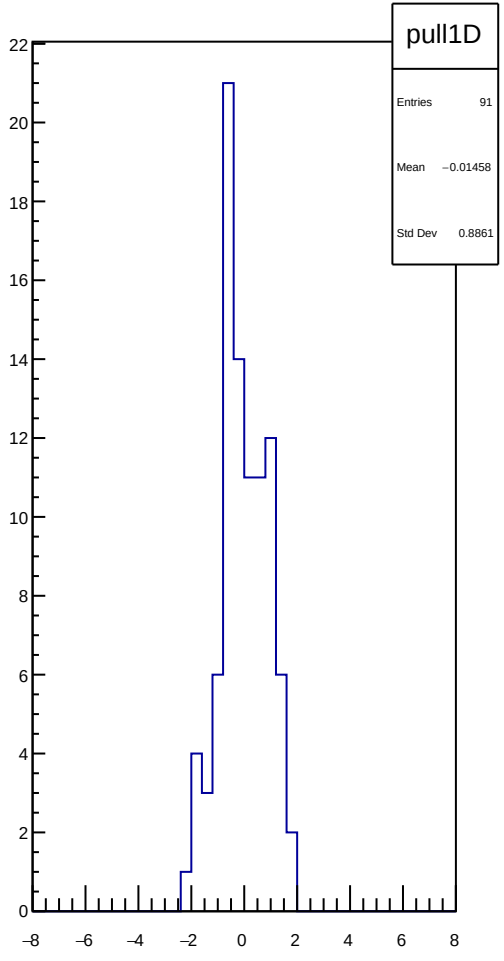

eigen_dit_asym_sam4_rms vs run
χ² / ndf 5952 / 90
p0 306.6 ± 0.2322
460
440
420
400
380
360
340
320
300
280
260

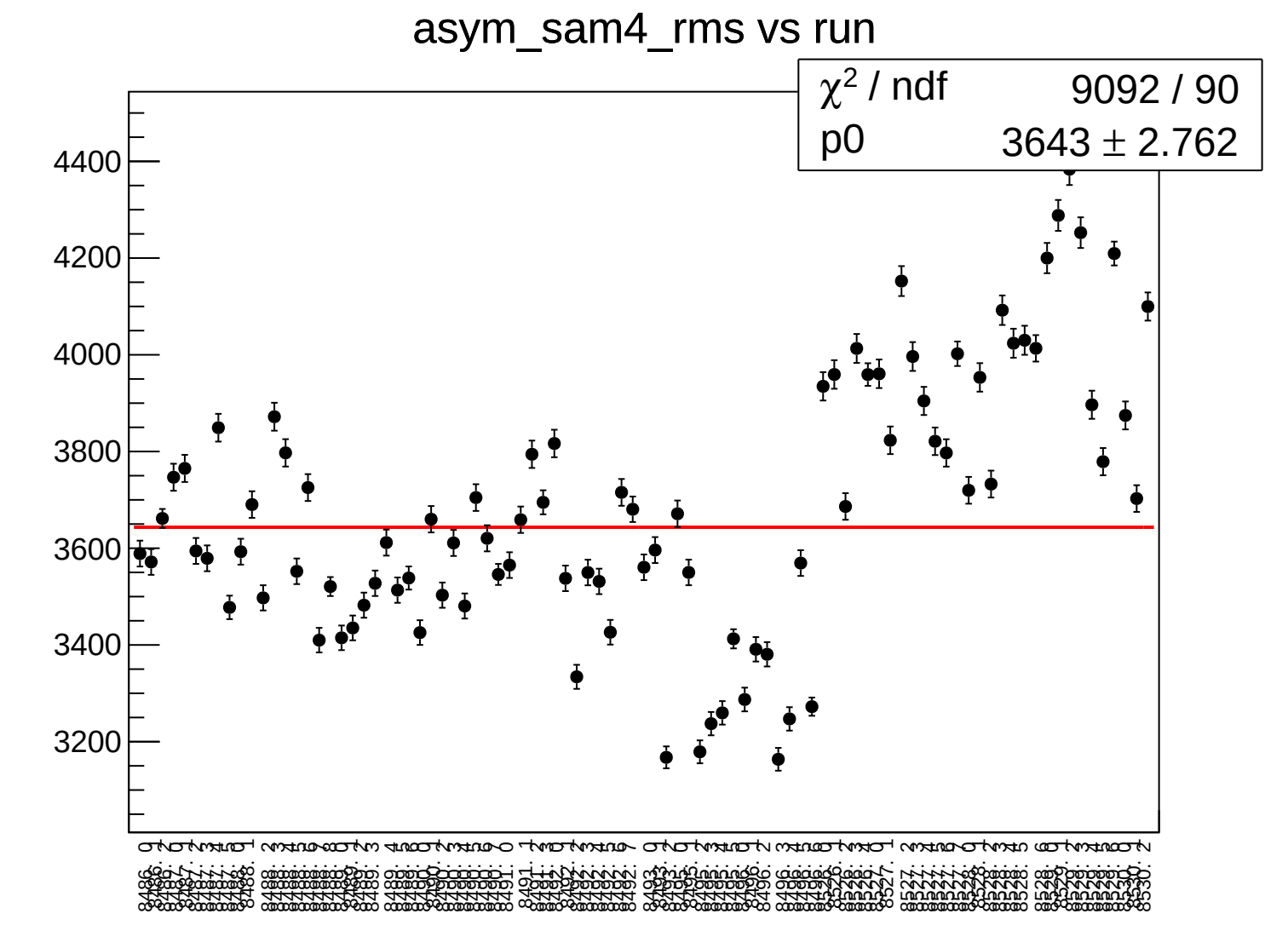

asym_sam4_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 74.59 / 90
p0 −1.101e+04 ± 4015
150
100
50
0
−50
−100
pull
Entries 91
Mean 156.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

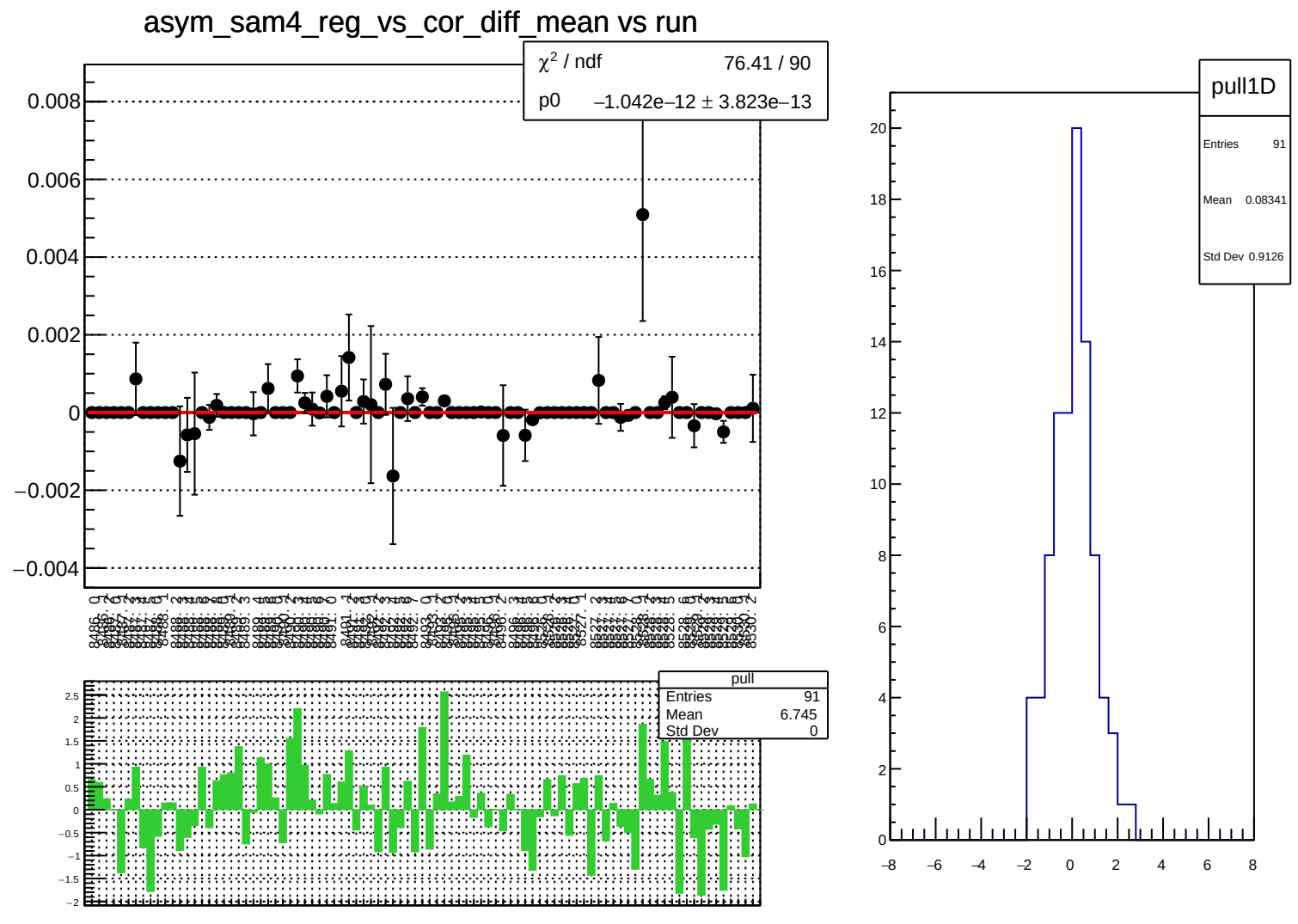

pull1D
Entries 91
Mean 0.01444
Std Dev 0.9052
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

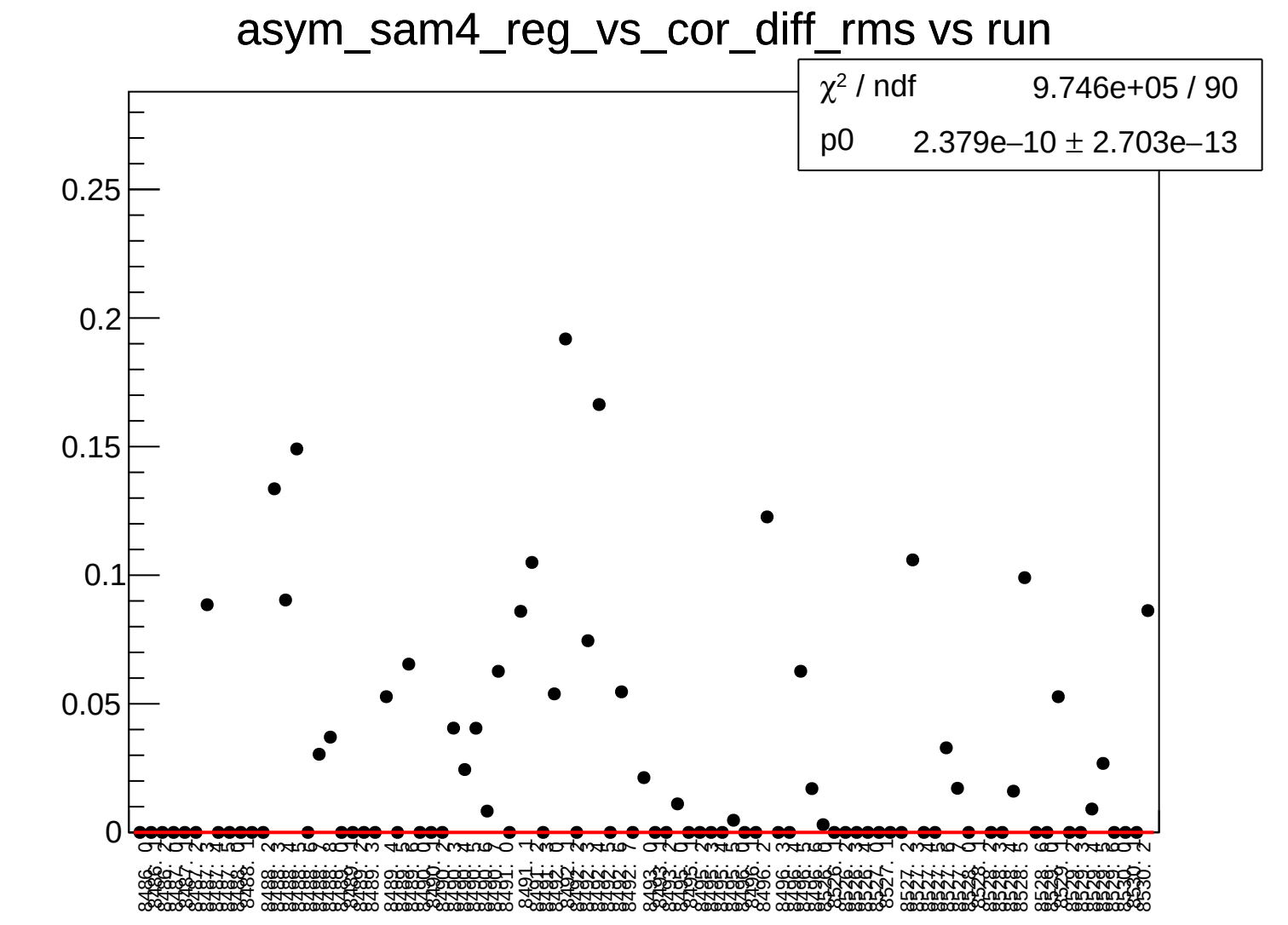

asym_sam4_eigen_dit_correction_rms vs run
χ² / ndf 8750 / 90
p0 3746 ± 2.839
4600
4400
4200
4000
3800
3600
3400
3200

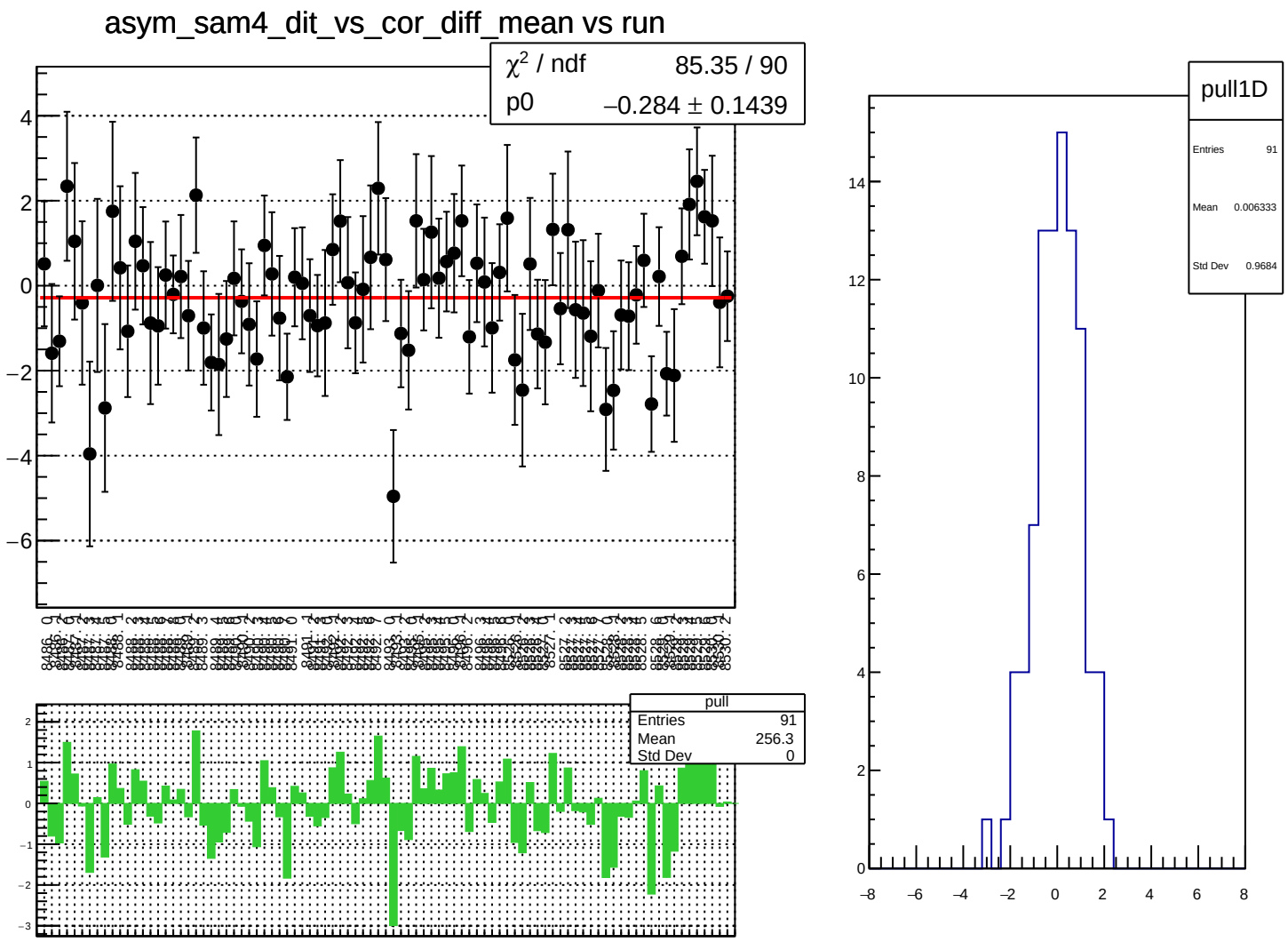

asym_sam4_mean vs run
×10^3
χ² / ndf 71.48 / 90
p0 1.164e+04 ± 3906
100
50
0
−50
−100
−150
pull
Entries 91
Mean 188
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

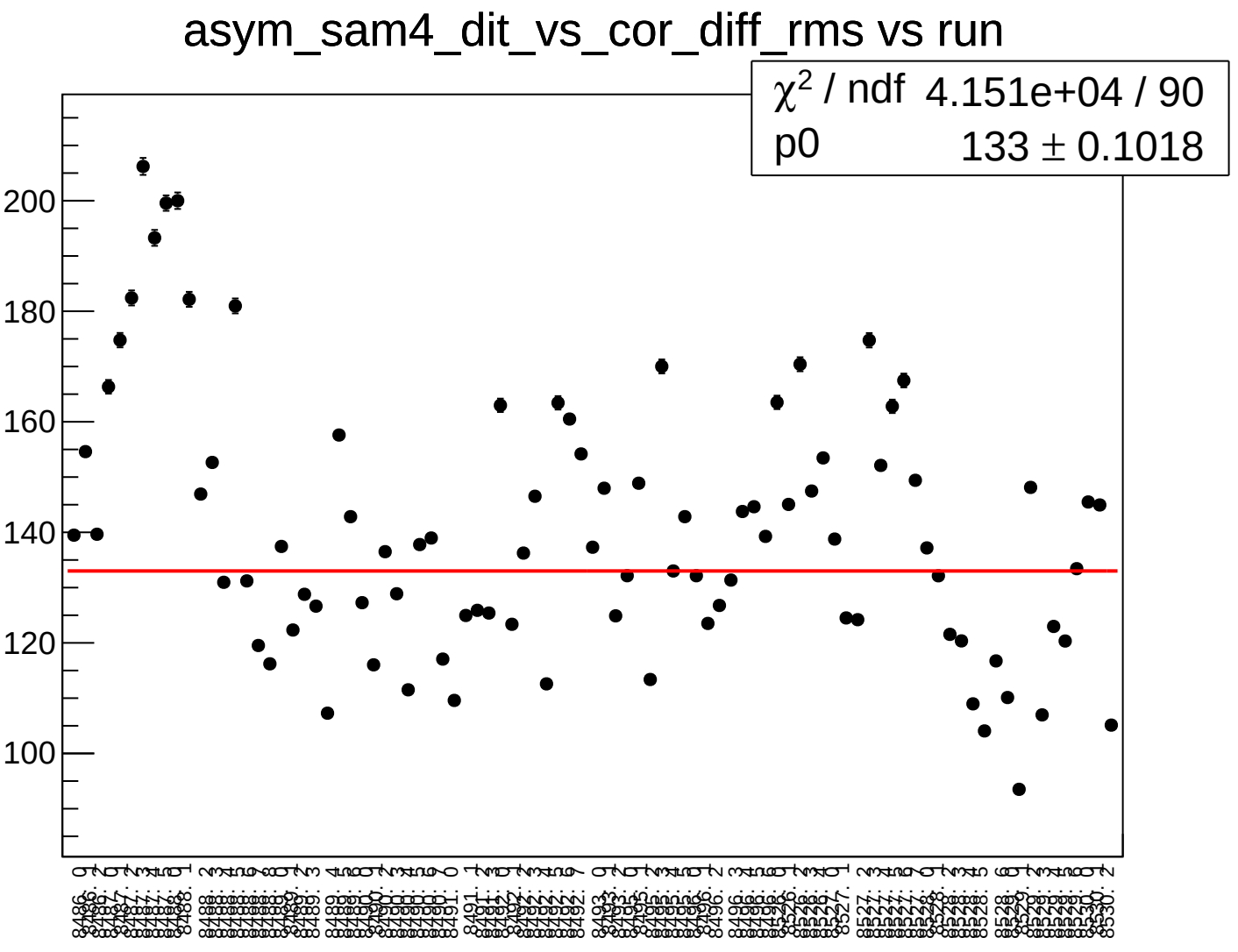

pull1D
Entries 91
Mean −0.01458
Std Dev 0.8861
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

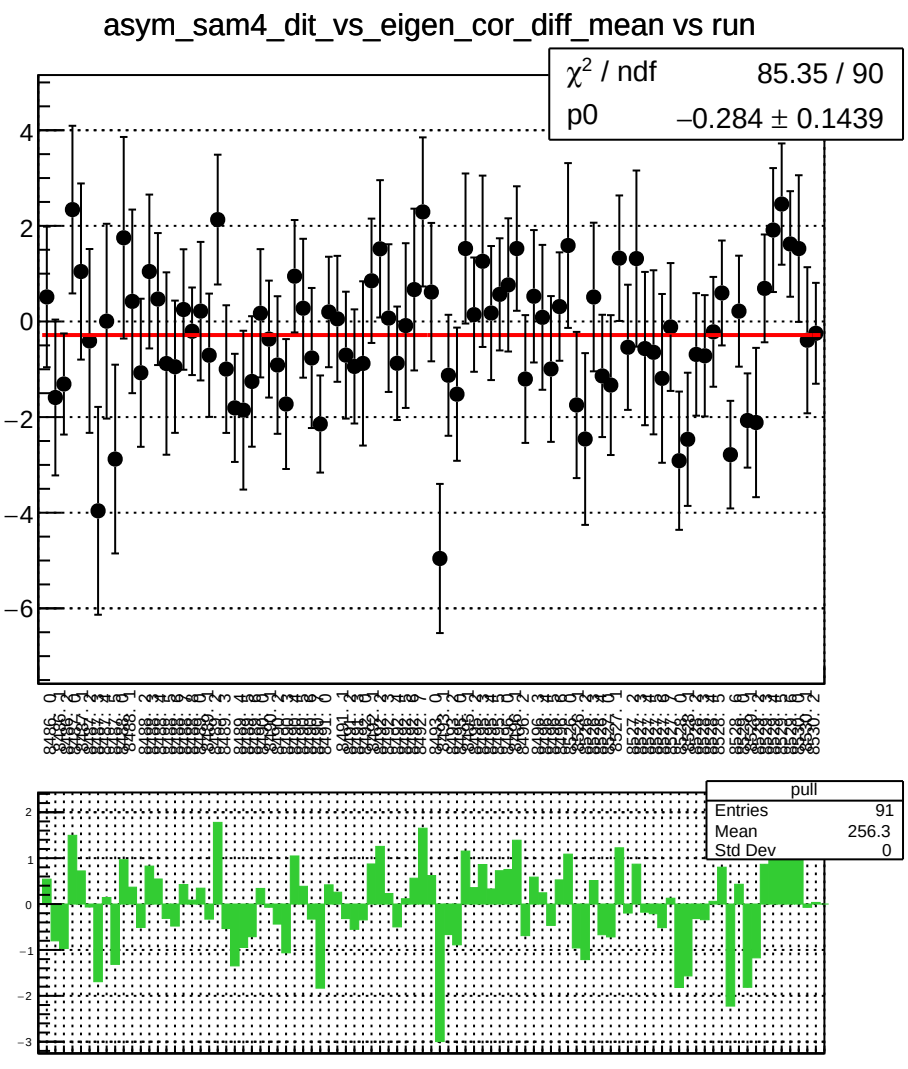

asym_sam4_rms vs run
χ^2 / ndf 9092 / 90
p0 3643 ± 2.762
4400
4200
4000
3800
3600
3400
3200

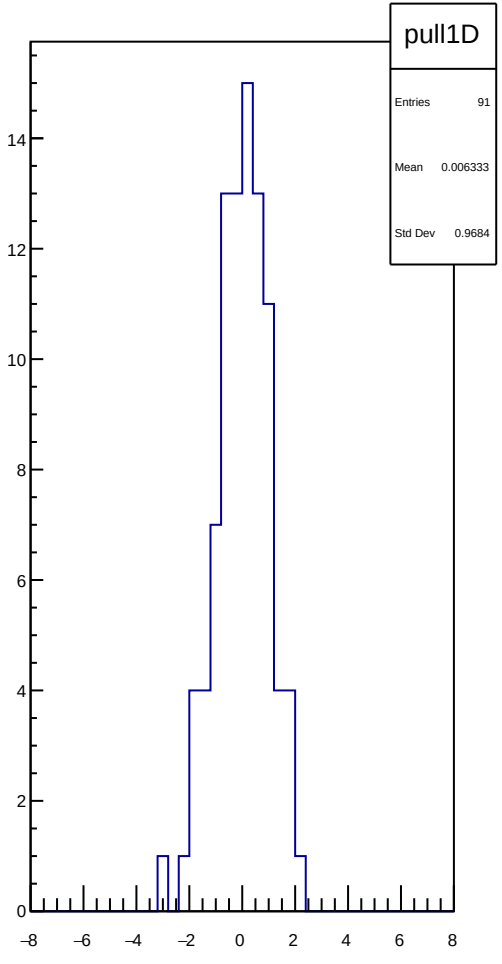

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 76.41 / 90
p0 −1.042e−12 ± 3.823e−13
0.008
0.006
0.004
0.002
0
−0.002
−0.004
pull
Entries 91
Mean 6.745
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 91
Mean 0.08341
Std Dev 0.9126
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

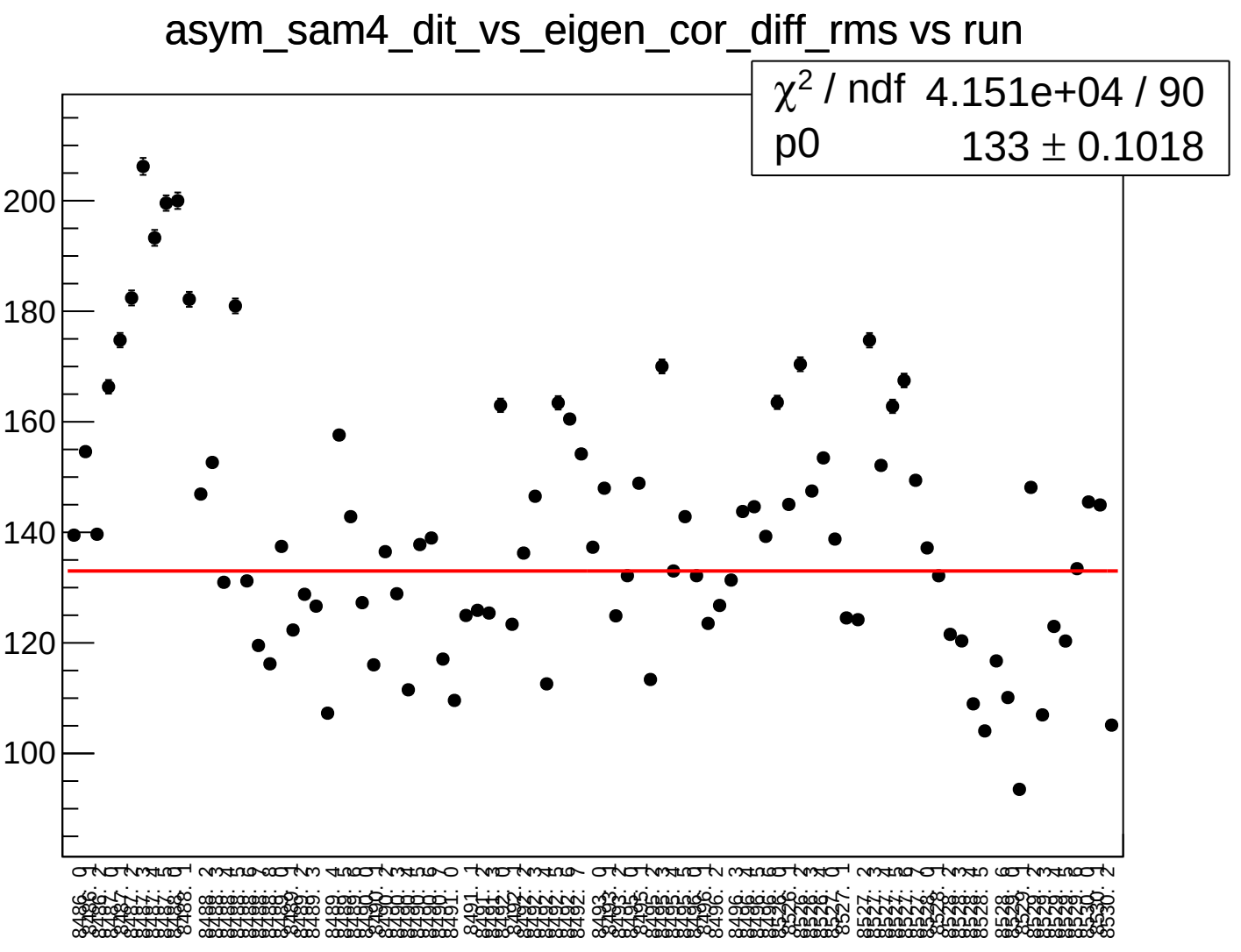

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 9.746e+05 / 90
p0 2.379e−10 ± 2.703e−13
0.25
0.2
0.15
0.1
0.05
0

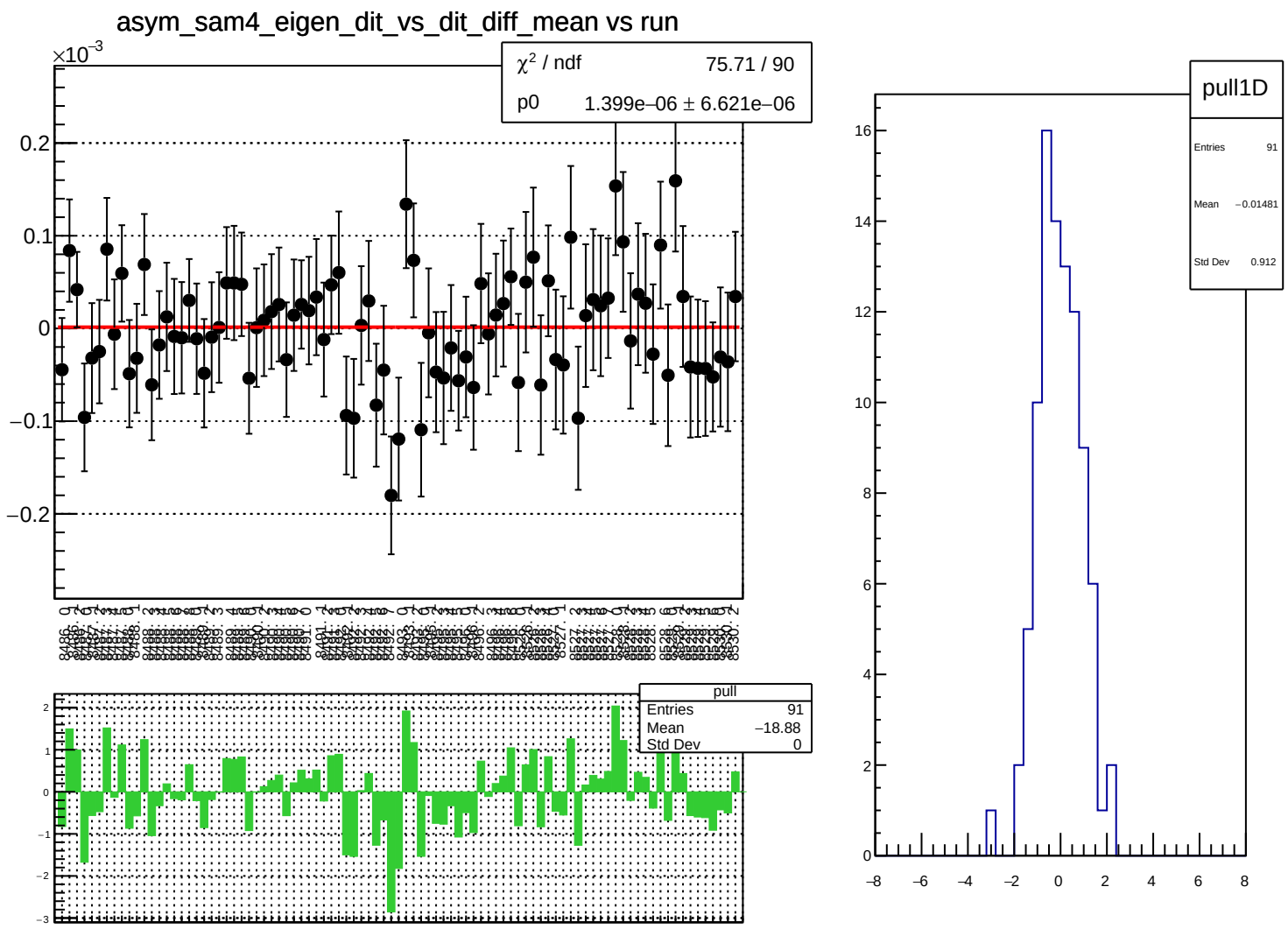

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 85.35 / 90
p0 −0.284 ± 0.1439
pull
Entries 91
Mean 256.3
Std Dev 0
pull1D
Entries 91
Mean 0.006333
Std Dev 0.9684

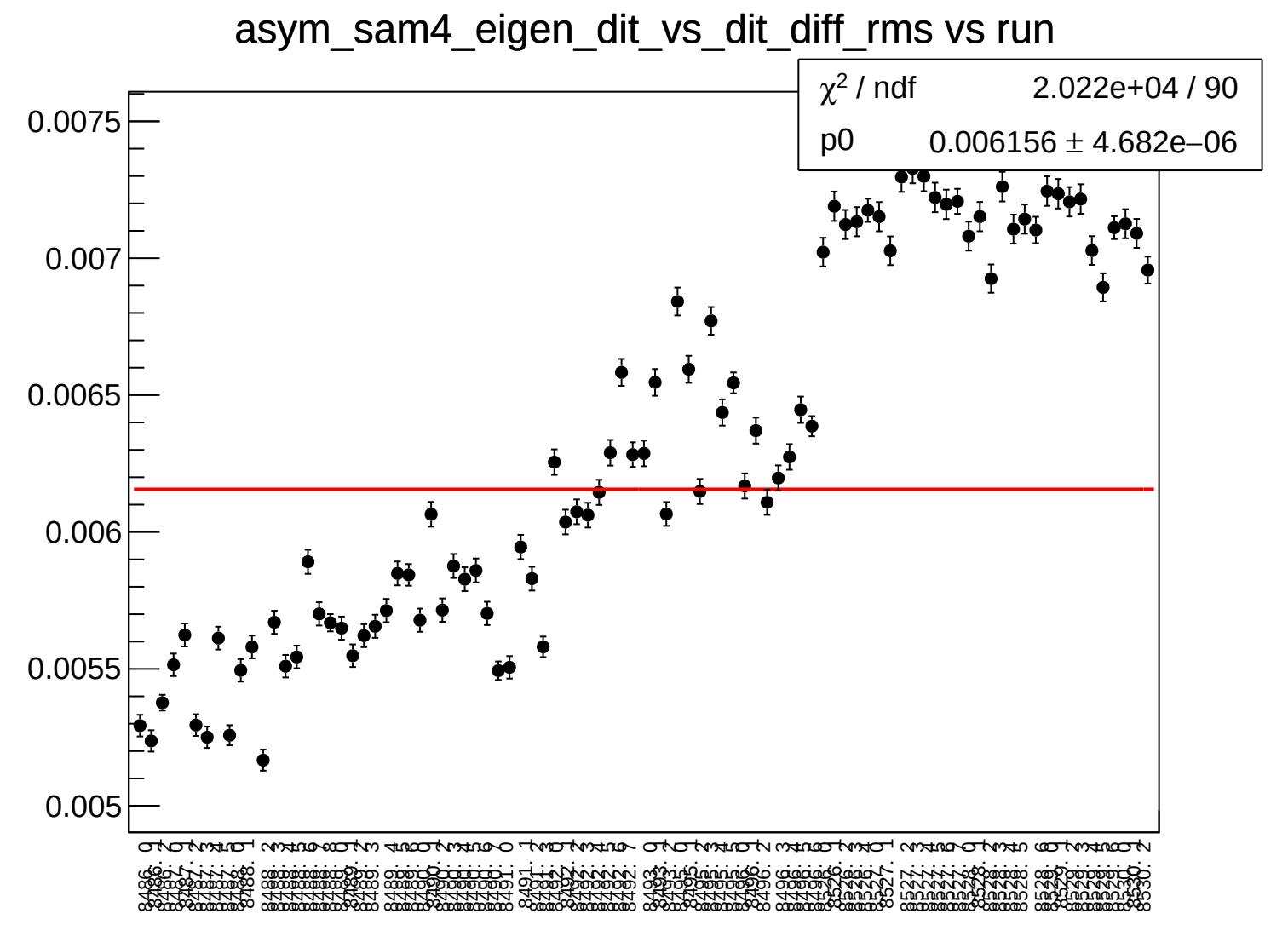

asym_sam4_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.151e+04 / 90
p0 133 ± 0.1018
200
180
160
140
120
100

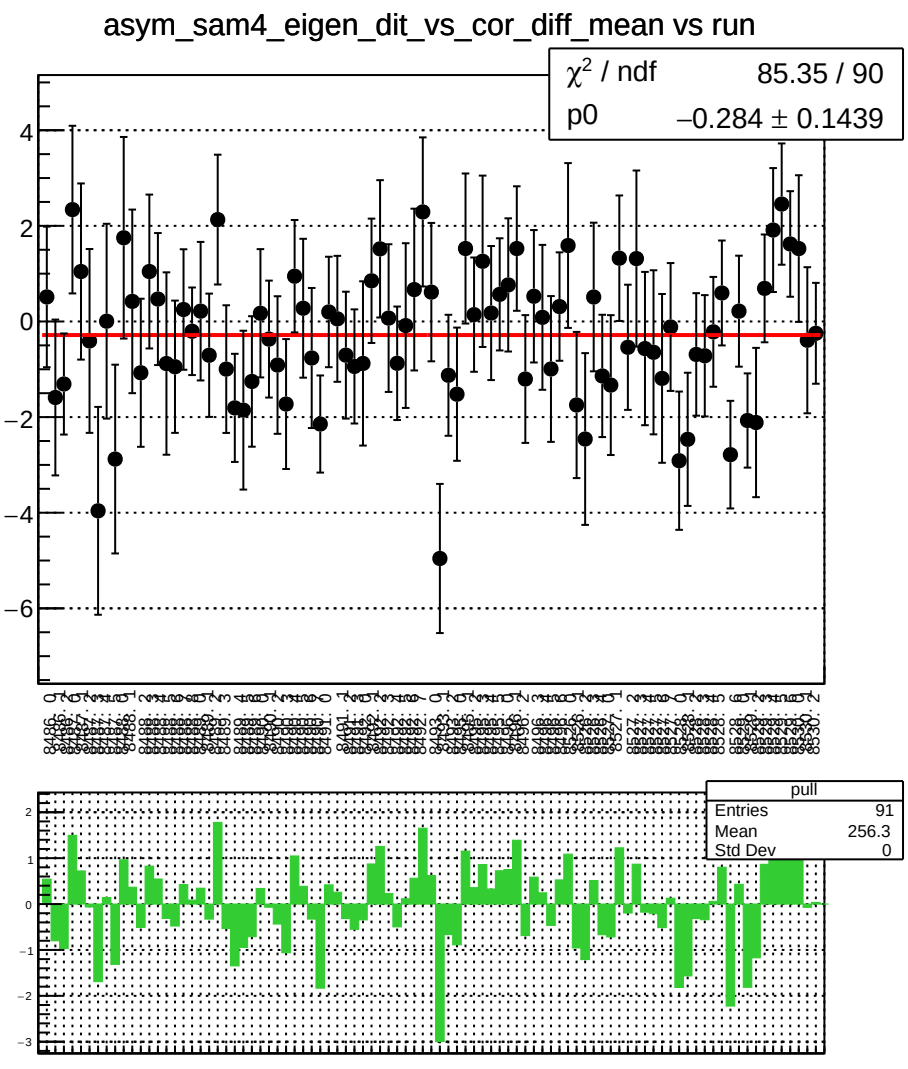

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.35 / 90
p0 −0.284 ± 0.1439
pull
Entries 91
Mean 256.3
Std Dev 0

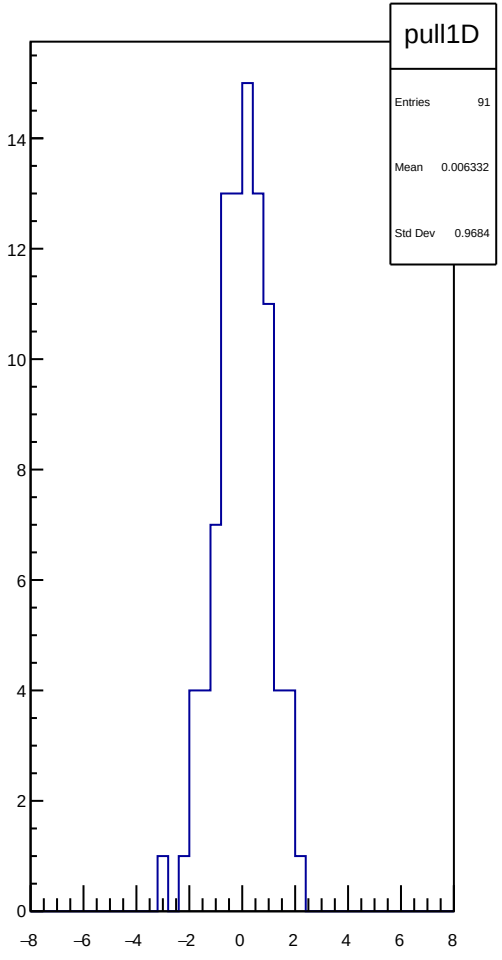

pull1D
Entries 91
Mean 0.006333
Std Dev 0.9684

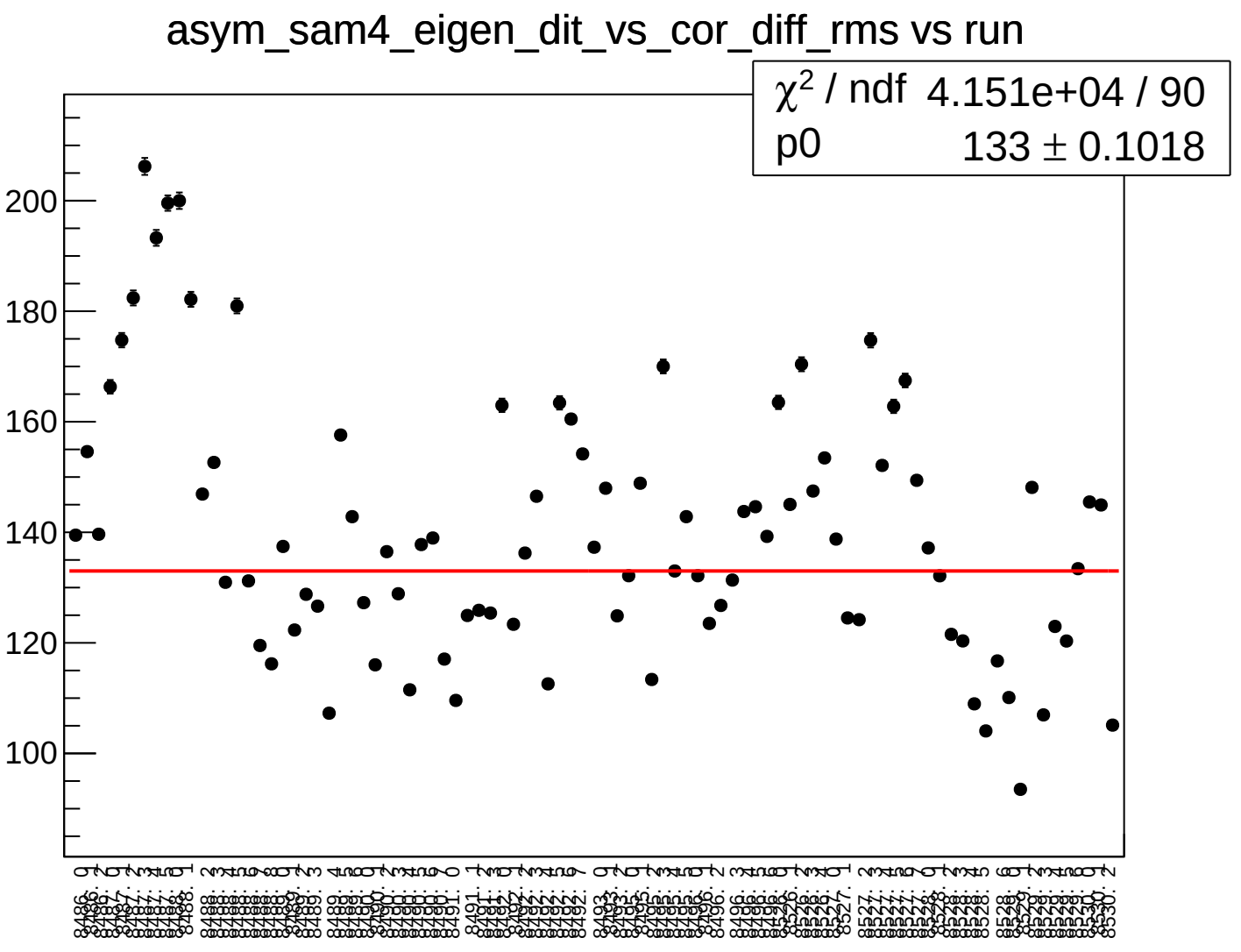

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.151e+04 / 90
p0 133 ± 0.1018
200
180
160
140
120
100

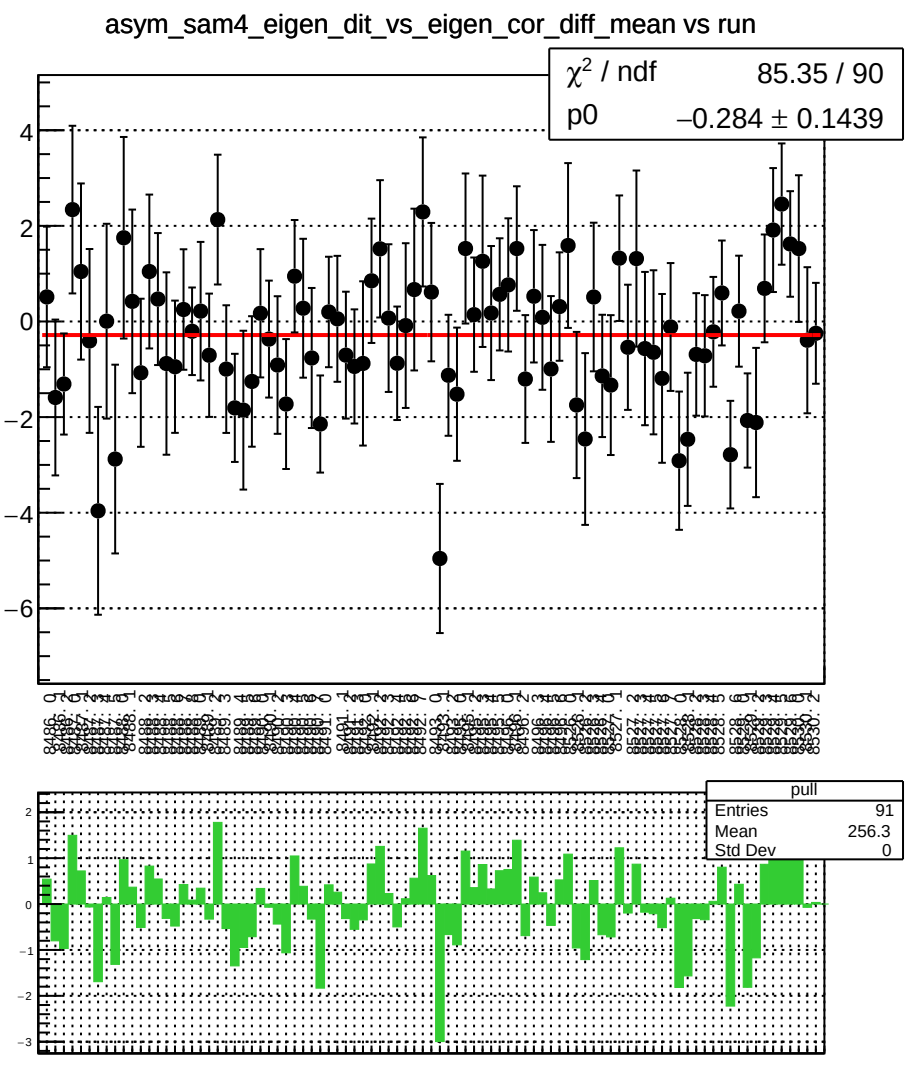

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.71 / 90
p0 1.399e−06 ± 6.621e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 91
Mean −18.88
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean −0.01481
Std Dev 0.912
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

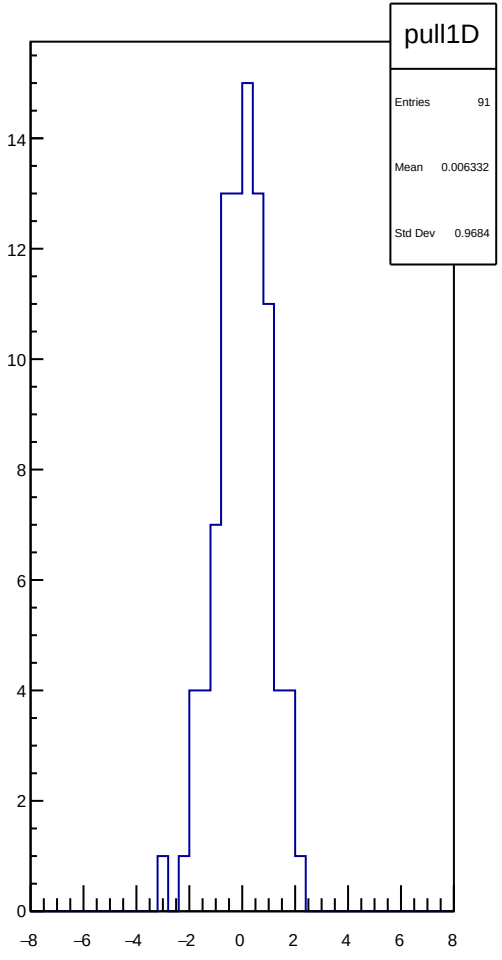

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.022e+04 / 90
p0 0.006156 ± 4.682e−06
0.0075
0.007
0.0065
0.006
0.0055
0.005

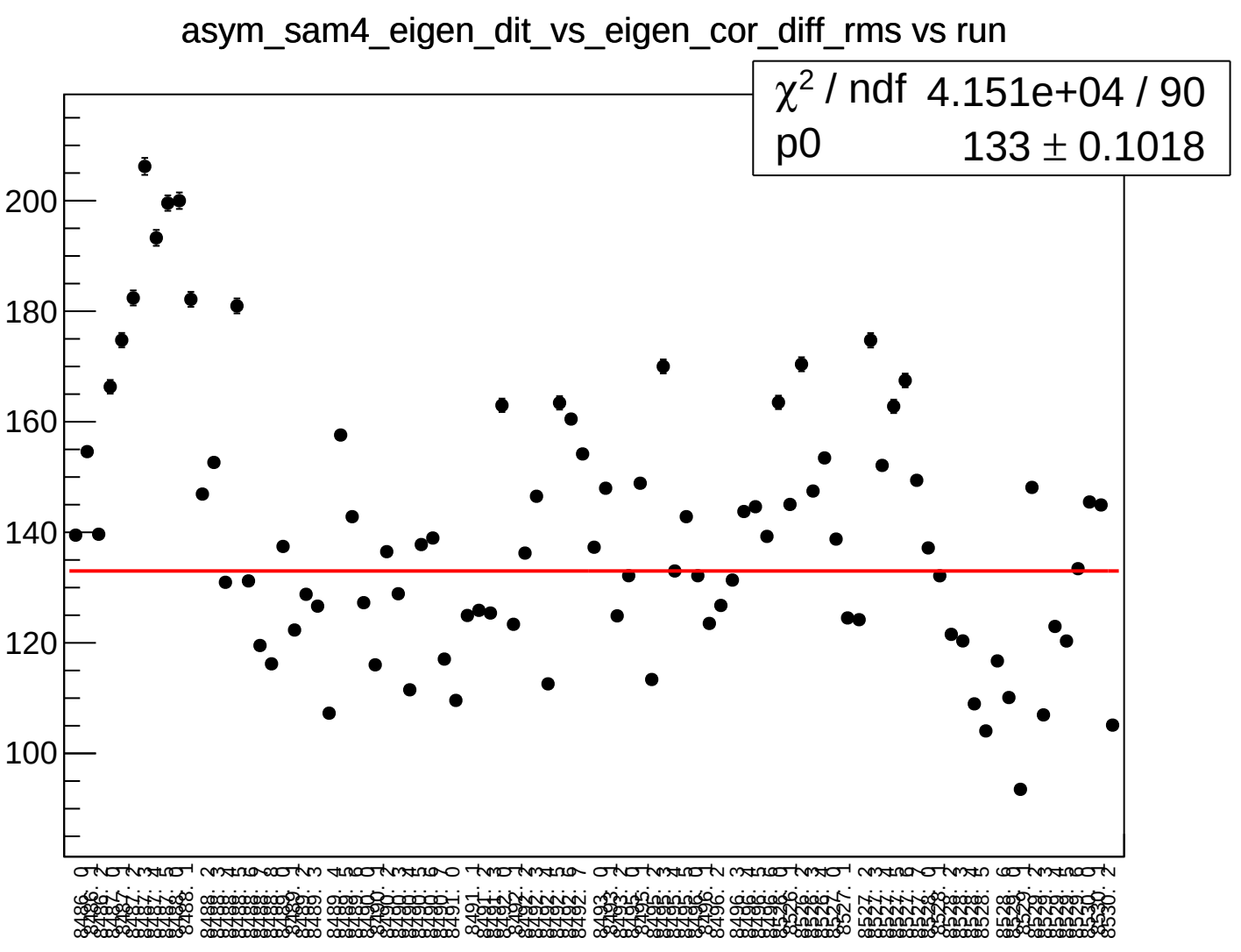

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.35 / 90
p0 −0.284 ± 0.1439
pull
Entries 91
Mean 256.3
Std Dev 0

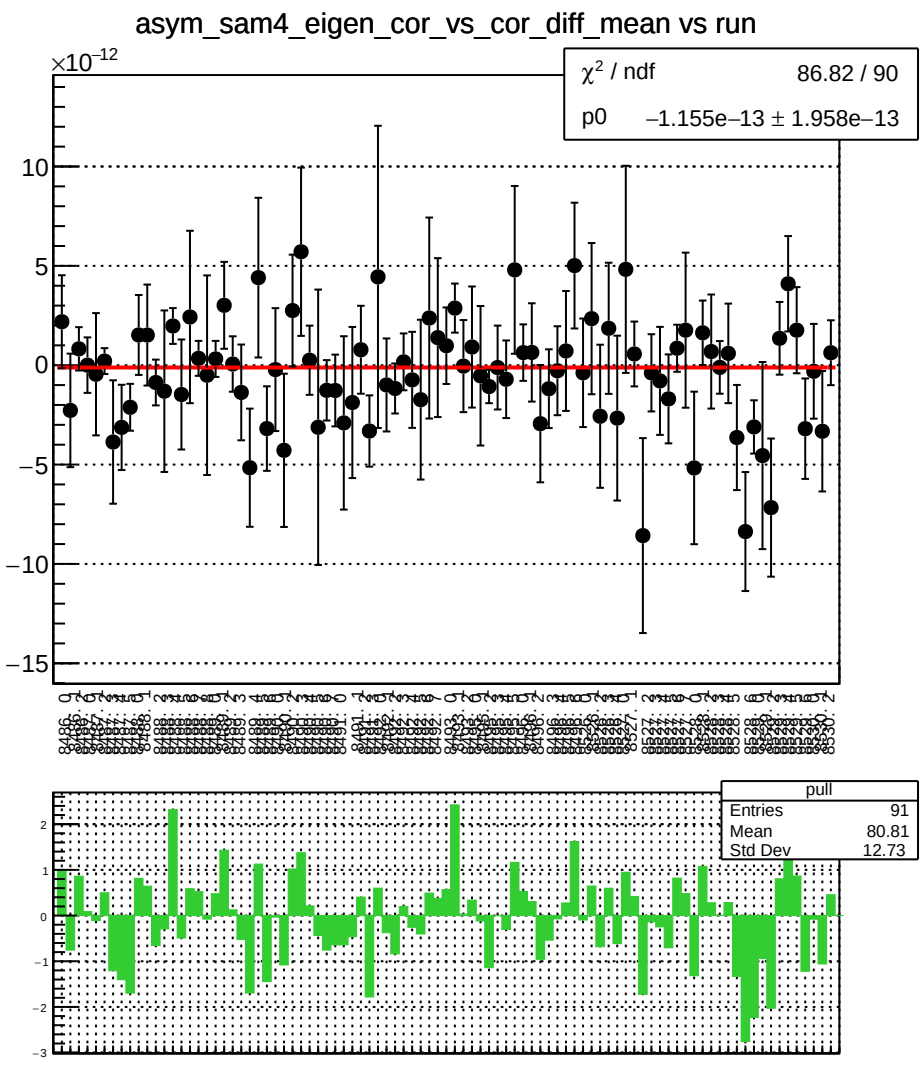

pull1D
Entries 91
Mean 0.006332
Std Dev 0.9684

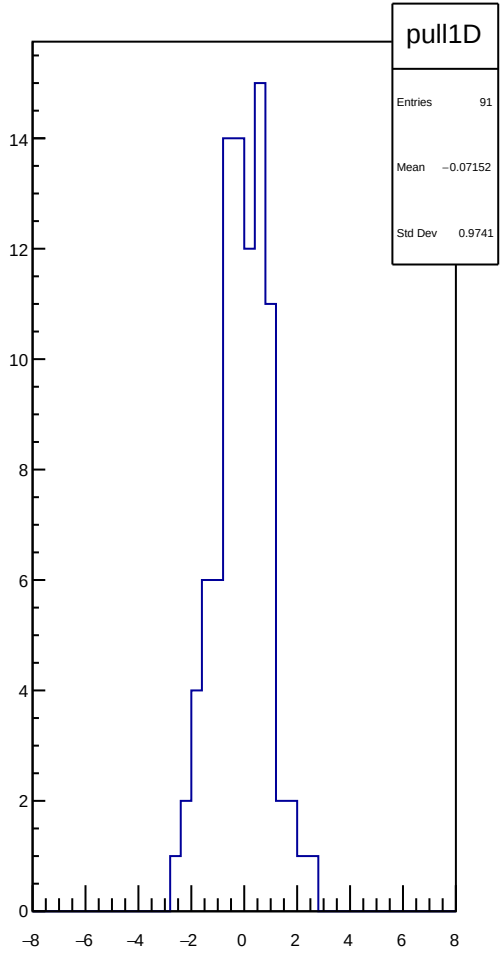

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.151e+04 / 90
p0 133 ± 0.1018
200
180
160
140
120
100

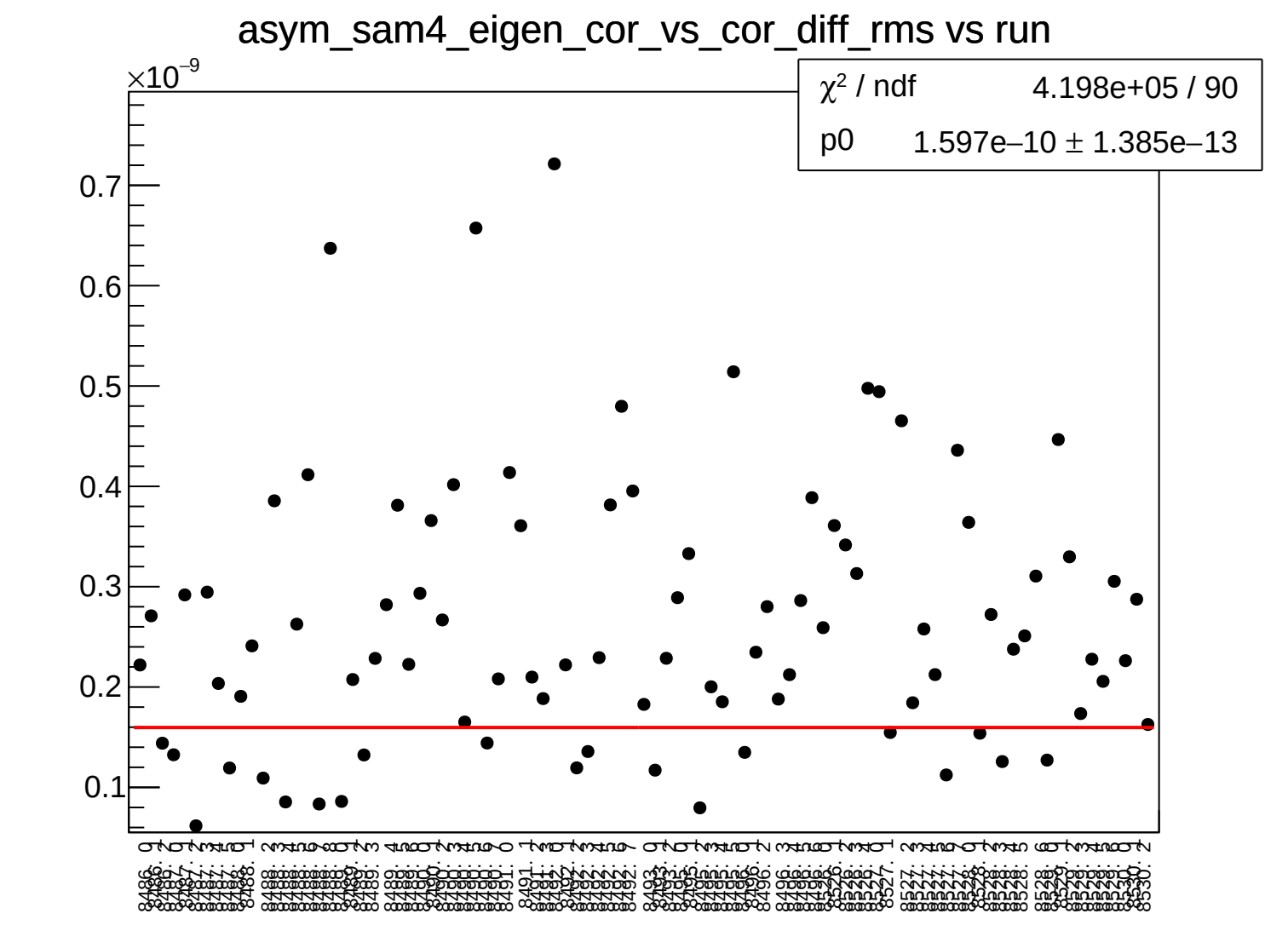

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.35 / 90
p0 −0.284 ± 0.1439
pull
Entries 91
Mean 256.3
Std Dev 0

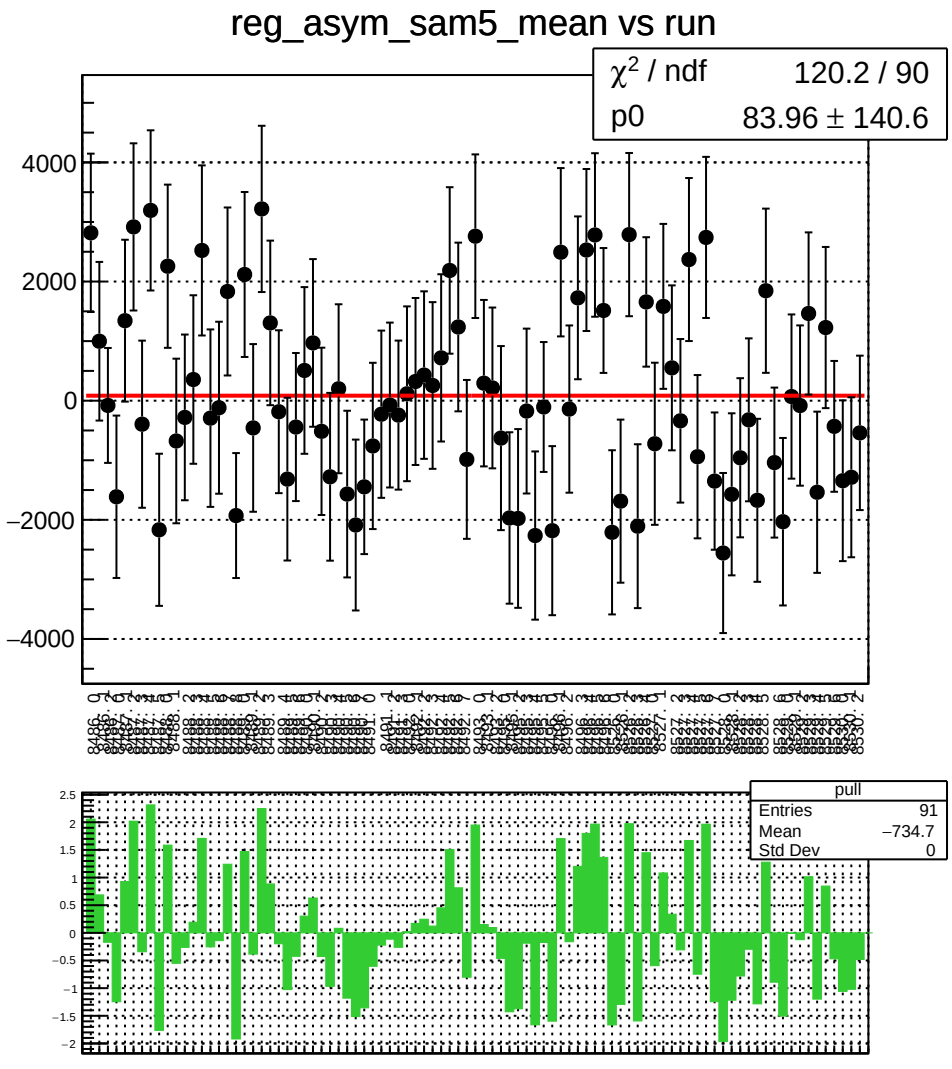

pull1D
Entries 91
Mean 0.006332
Std Dev 0.9684

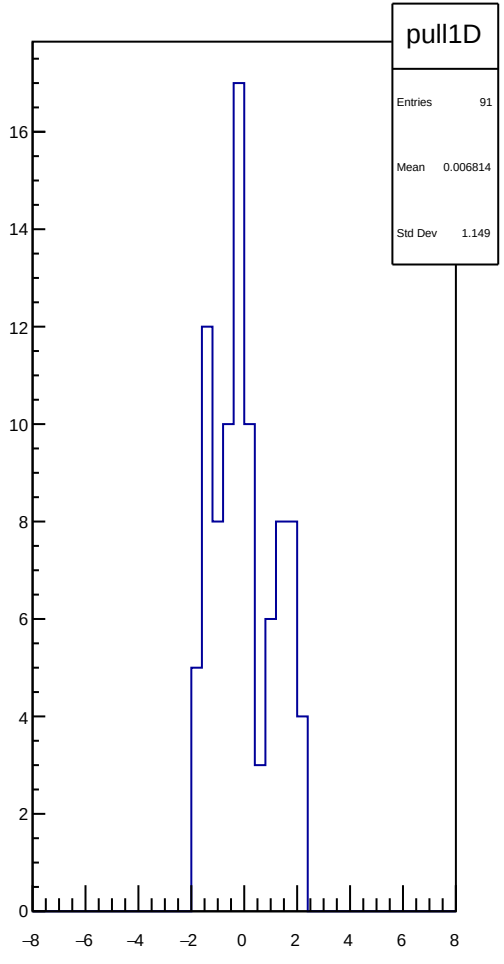

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.151e+04 / 90
p0 133 ± 0.1018
200
180
160
140
120
100

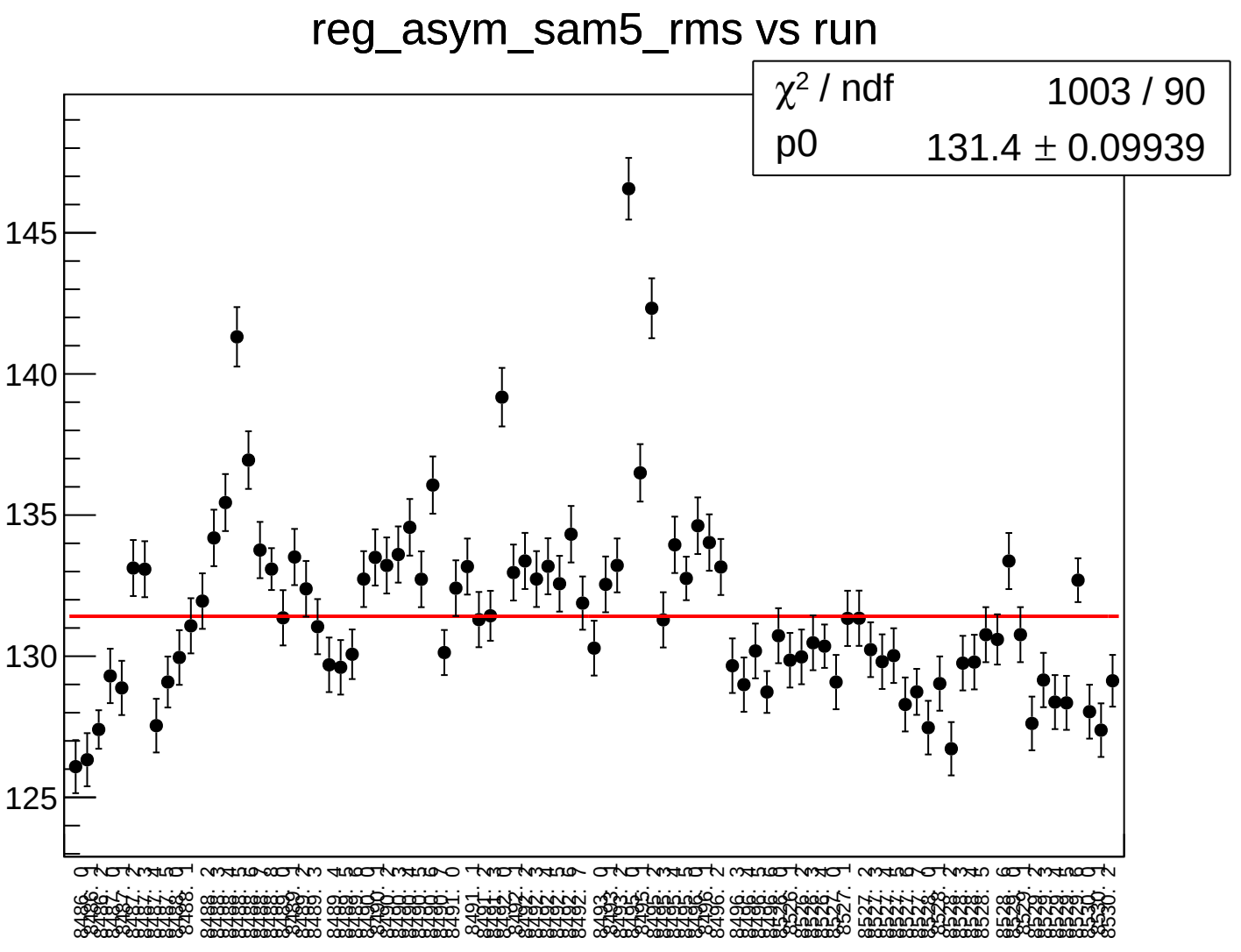

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.82 / 90
p0 −1.155e−13 ± 1.958e−13
10
5
0
−5
−10
−15
pull
Entries 91
Mean 80.81
Std Dev 12.73
2
1
0
−1
−2
−3

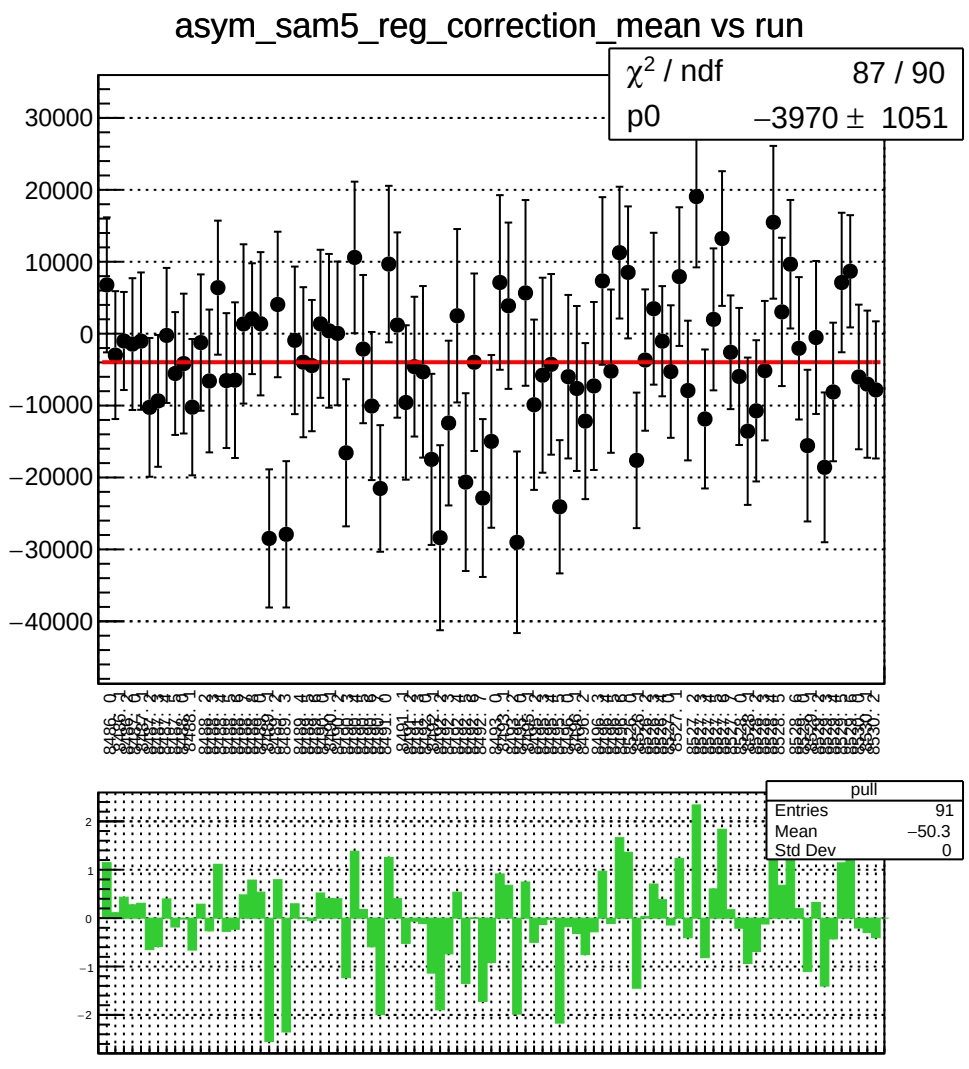

pull1D
Entries 91
Mean −0.07152
Std Dev 0.9741
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

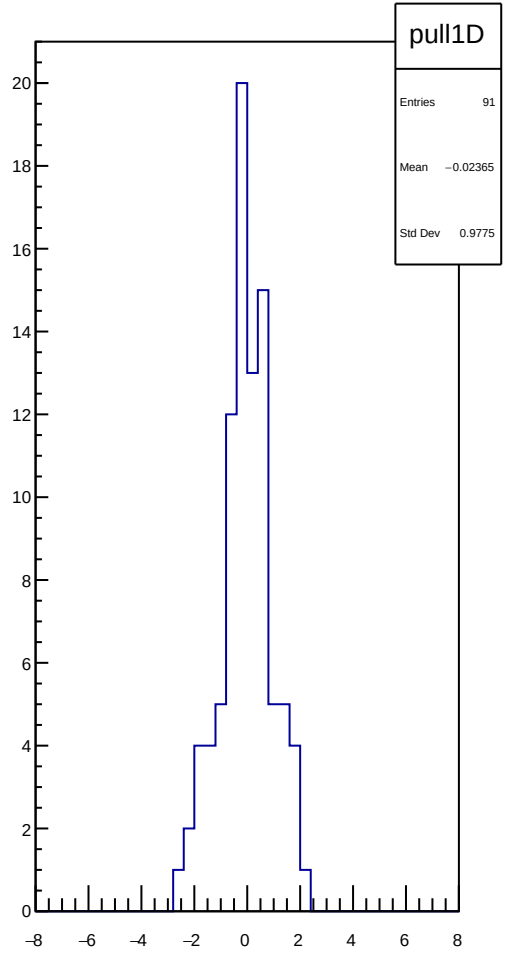

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.198e+05 / 90
p0 1.597e−10 ± 1.385e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1

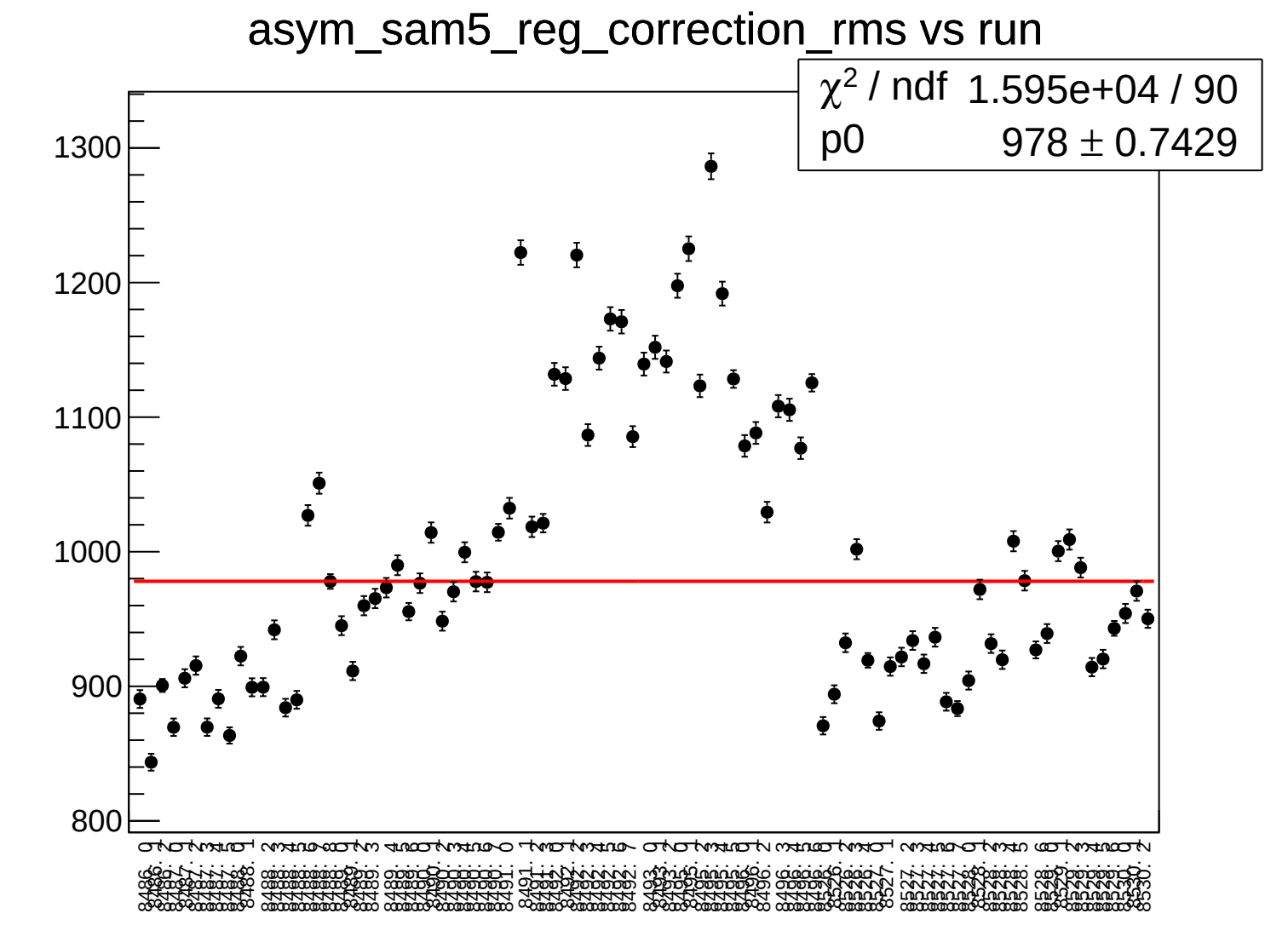

reg_asym_sam5_mean vs run
χ² / ndf 120.2 / 90
p0 83.96 ± 140.6
4000
2000
0
−2000
−4000
pull
Entries 91
Mean −734.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

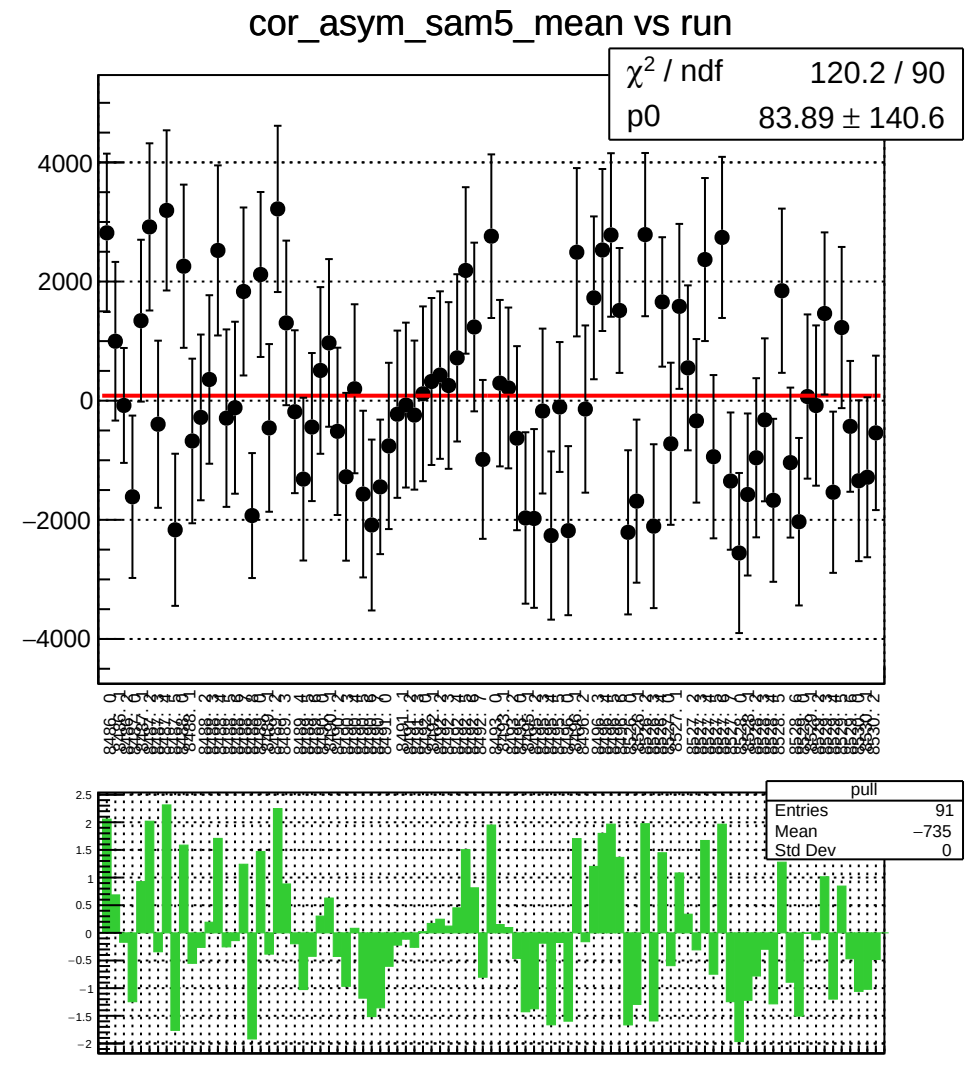

pull1D
Entries 91
Mean 0.006814
Std Dev 1.149
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

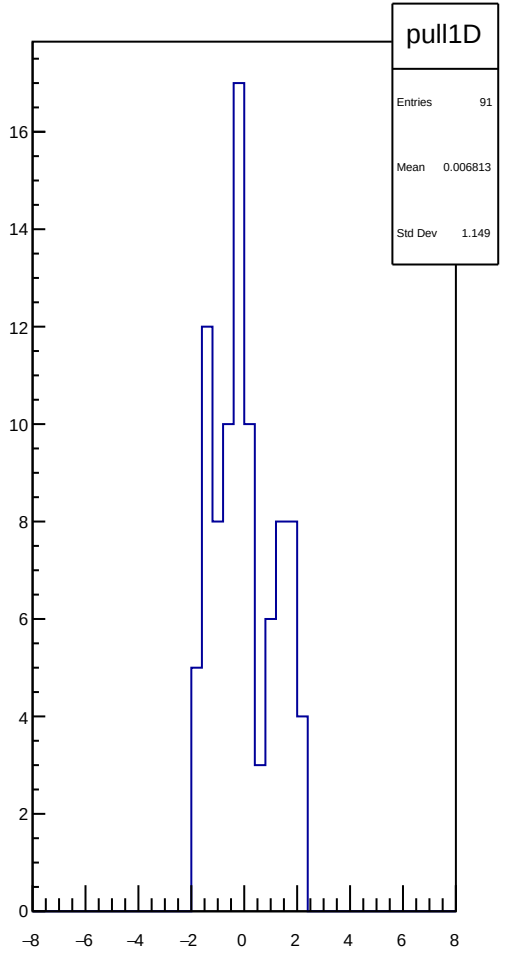

reg_asym_sam5_rms vs run
χ^2 / ndf 1003 / 90
p0 131.4 ± 0.09939
145
140
135
130
125

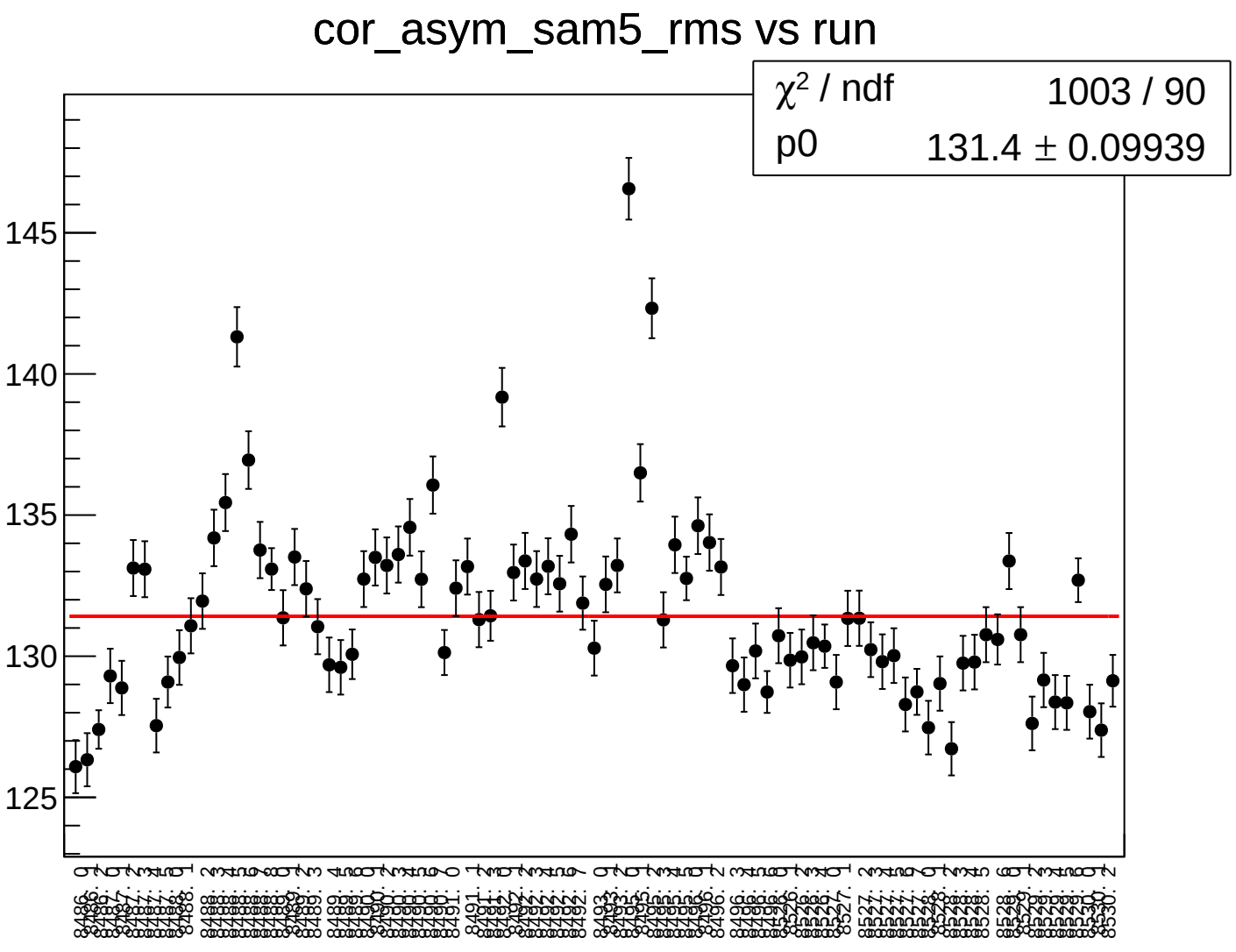

asym_sam5_reg_correction_mean vs run
χ² / ndf 87 / 90
p0 −3970 ± 1051
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean −50.3
Std Dev 0
2
1
0
−1
−2

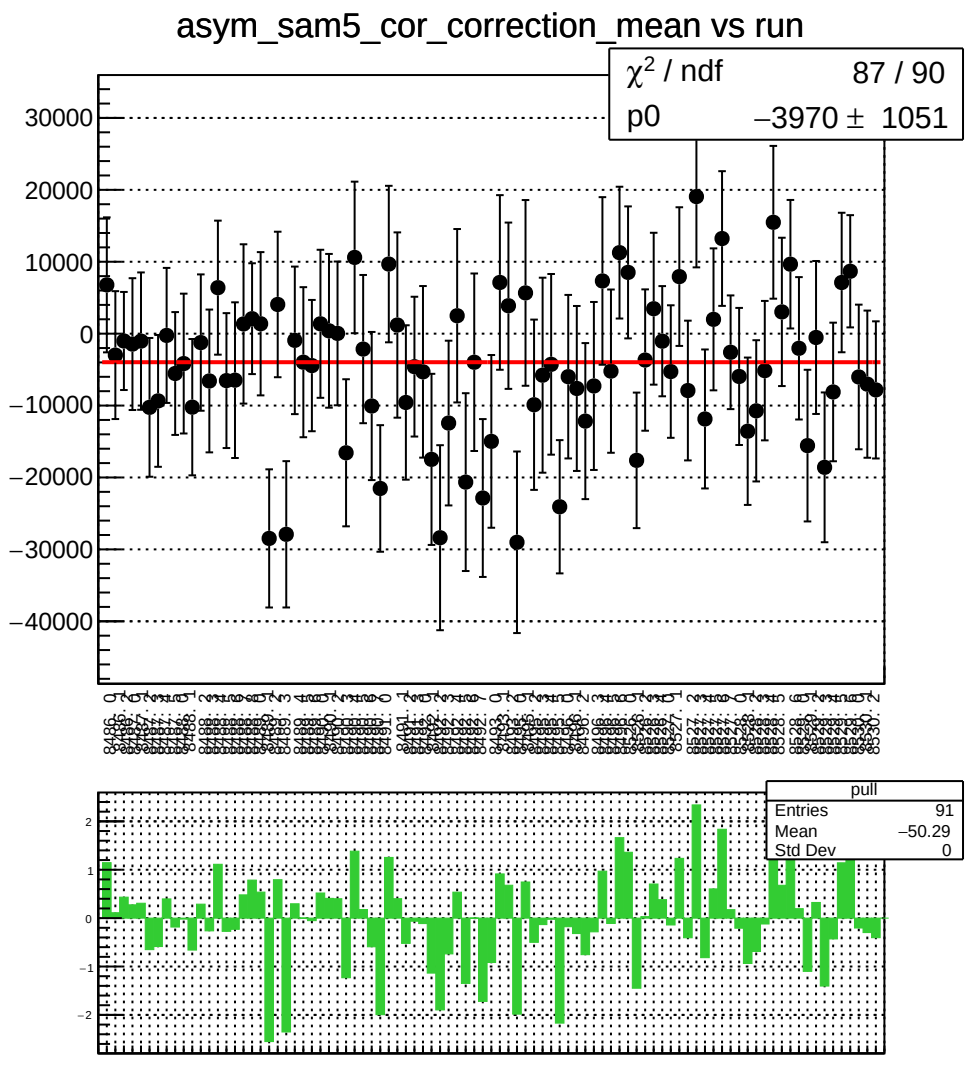

pull1D
Entries 91
Mean −0.02365
Std Dev 0.9775
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

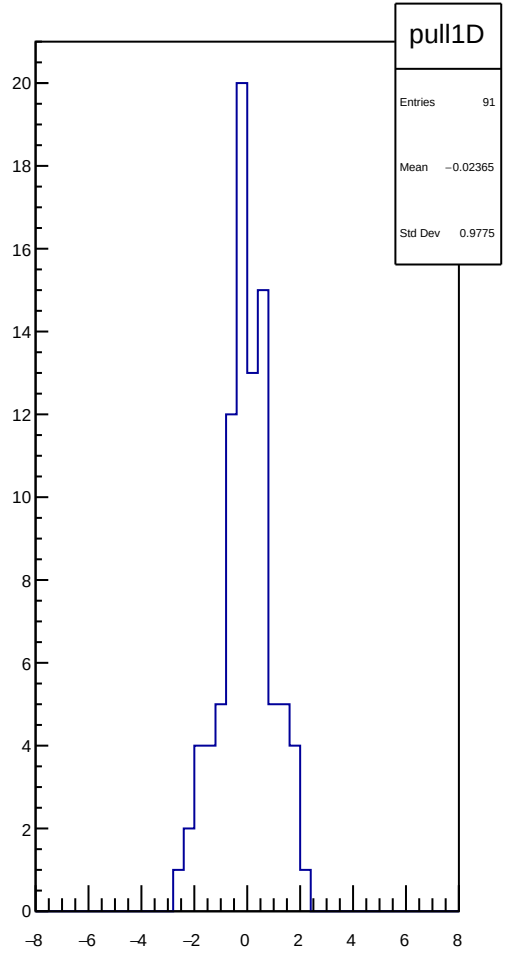

asym_sam5_reg_correction_rms vs run
χ² / ndf 1.595e+04 / 90
p0 978 ± 0.7429
1300
1200
1100
1000
900
800

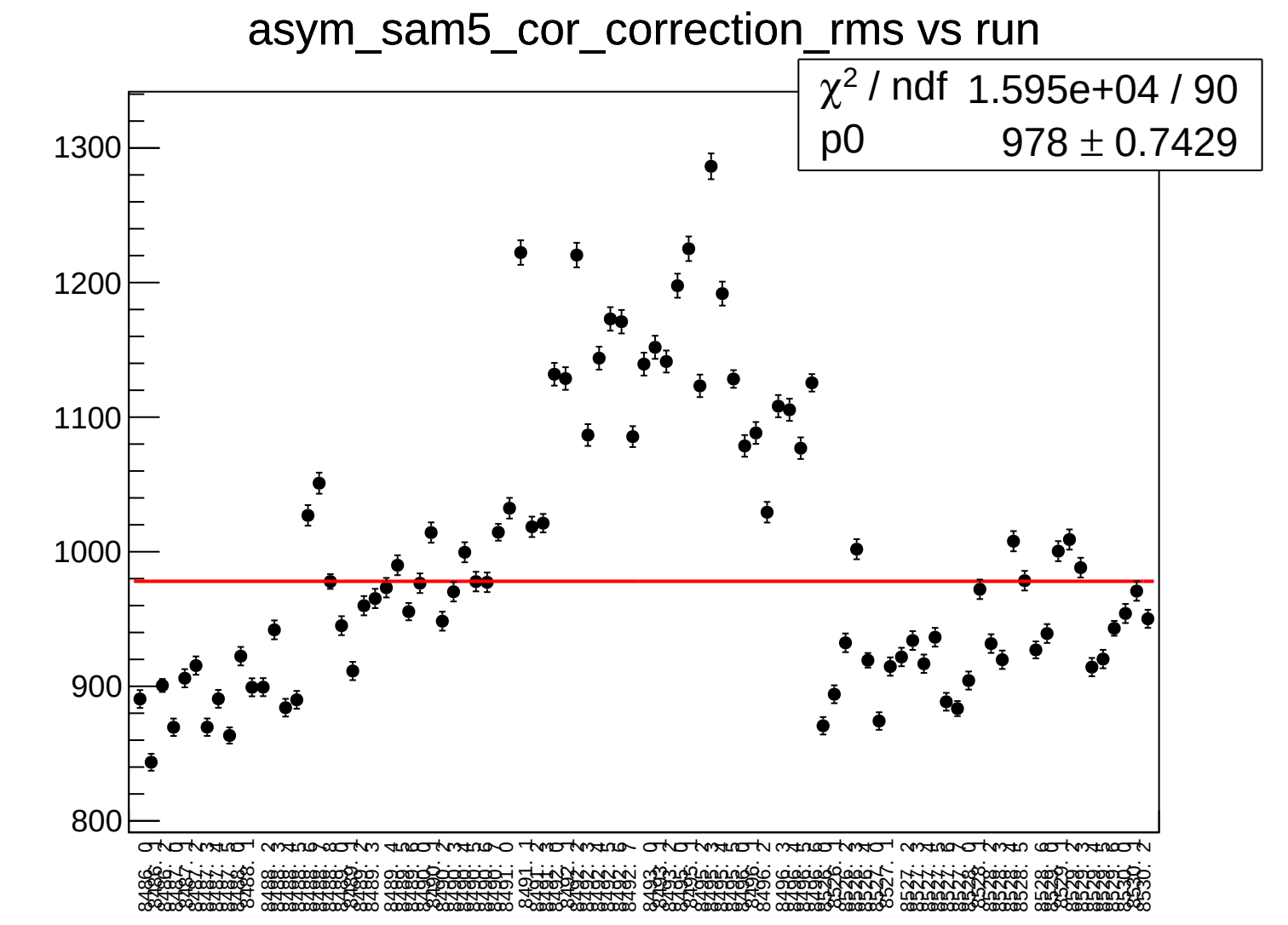

cor_asym_sam5_mean vs run
χ² / ndf 120.2 / 90
p0 83.89 ± 140.6
4000
2000
0
−2000
−4000
pull
Entries 91
Mean −735
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

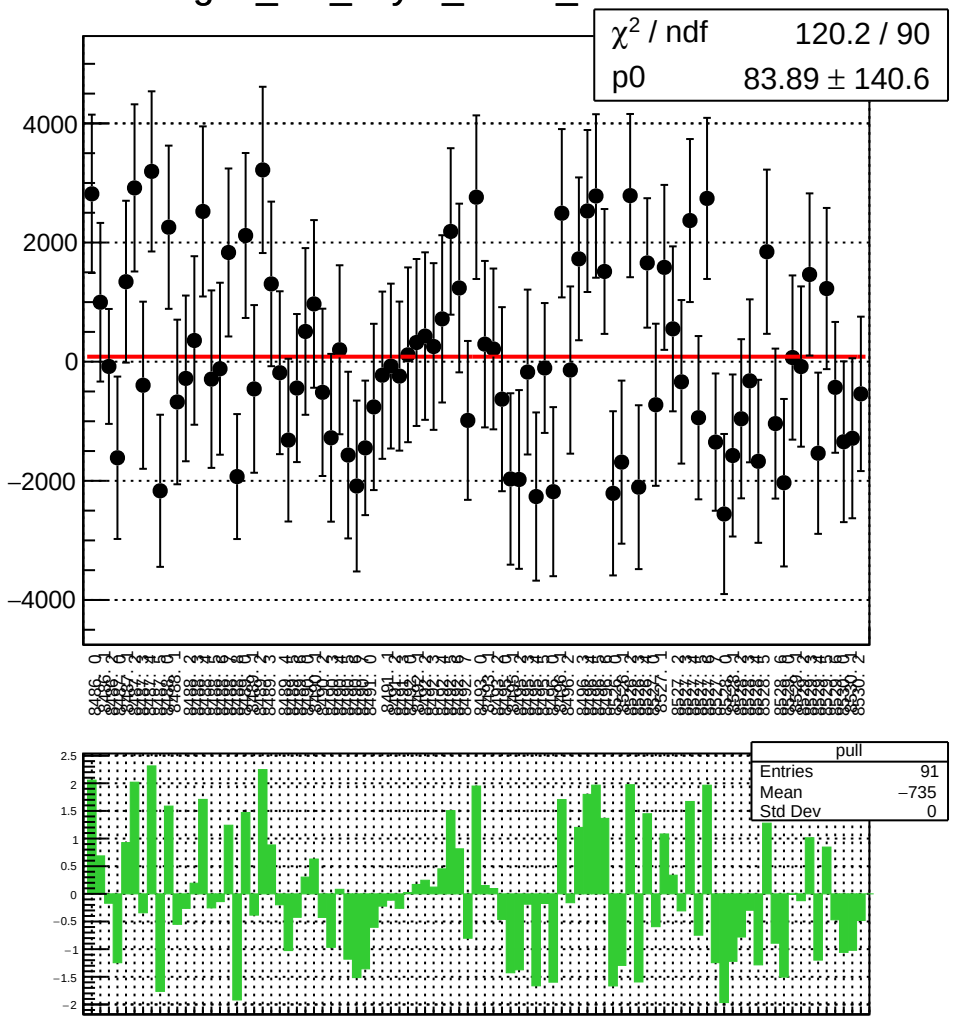

pull1D
Entries 91
Mean 0.006813
Std Dev 1.149
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

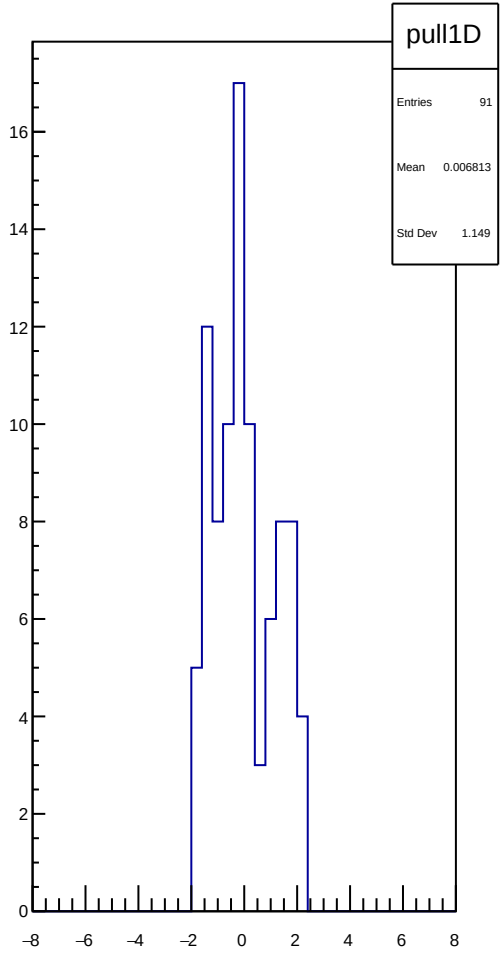

cor_asym_sam5_rms vs run
χ^2 / ndf 1003 / 90
p0 131.4 ± 0.09939
145
140
135
130
125

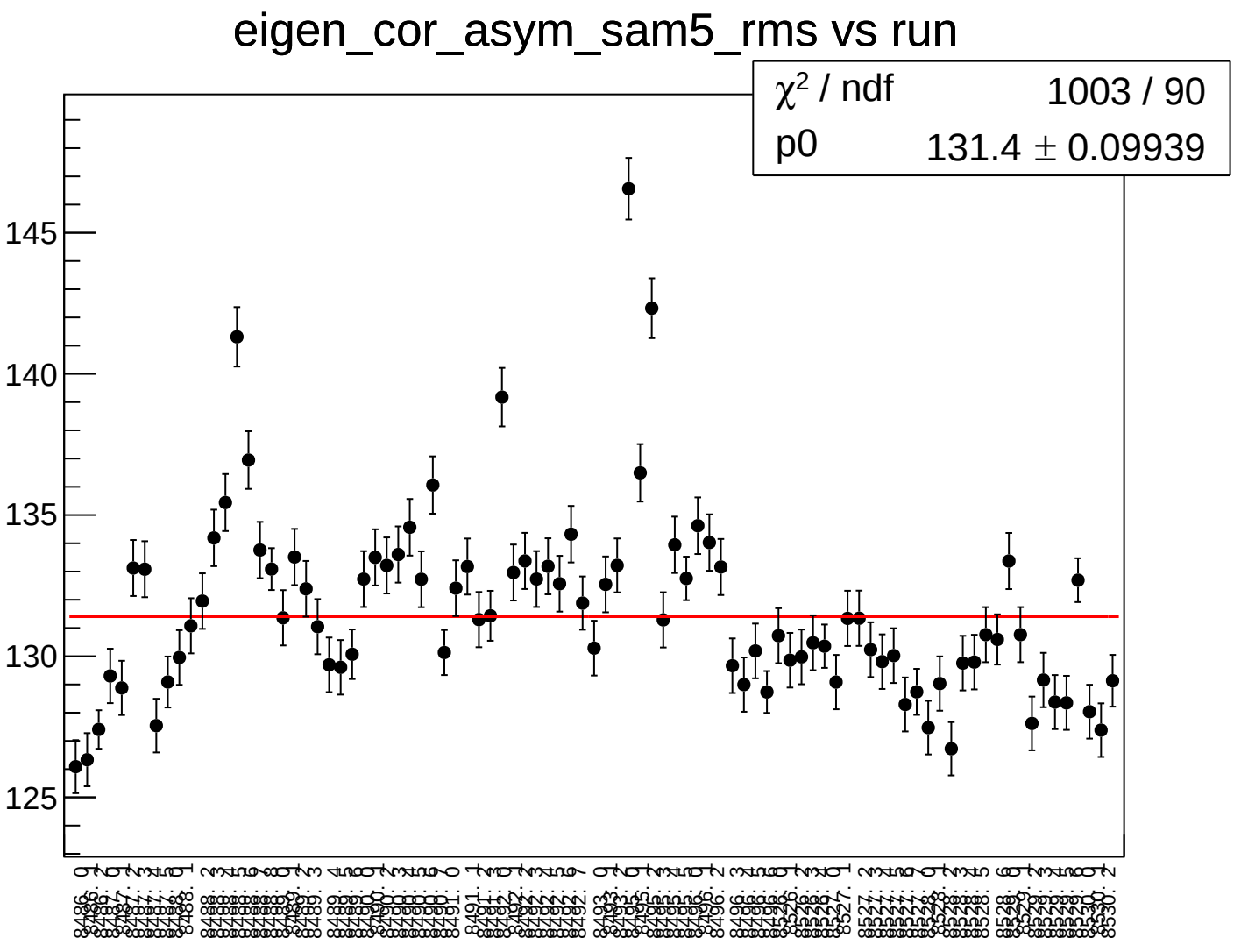

asym_sam5_cor_correction_mean vs run
χ² / ndf 87 / 90
p0 −3970 ± 1051
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean −50.29
Std Dev 0
2
1
0
−1
−2

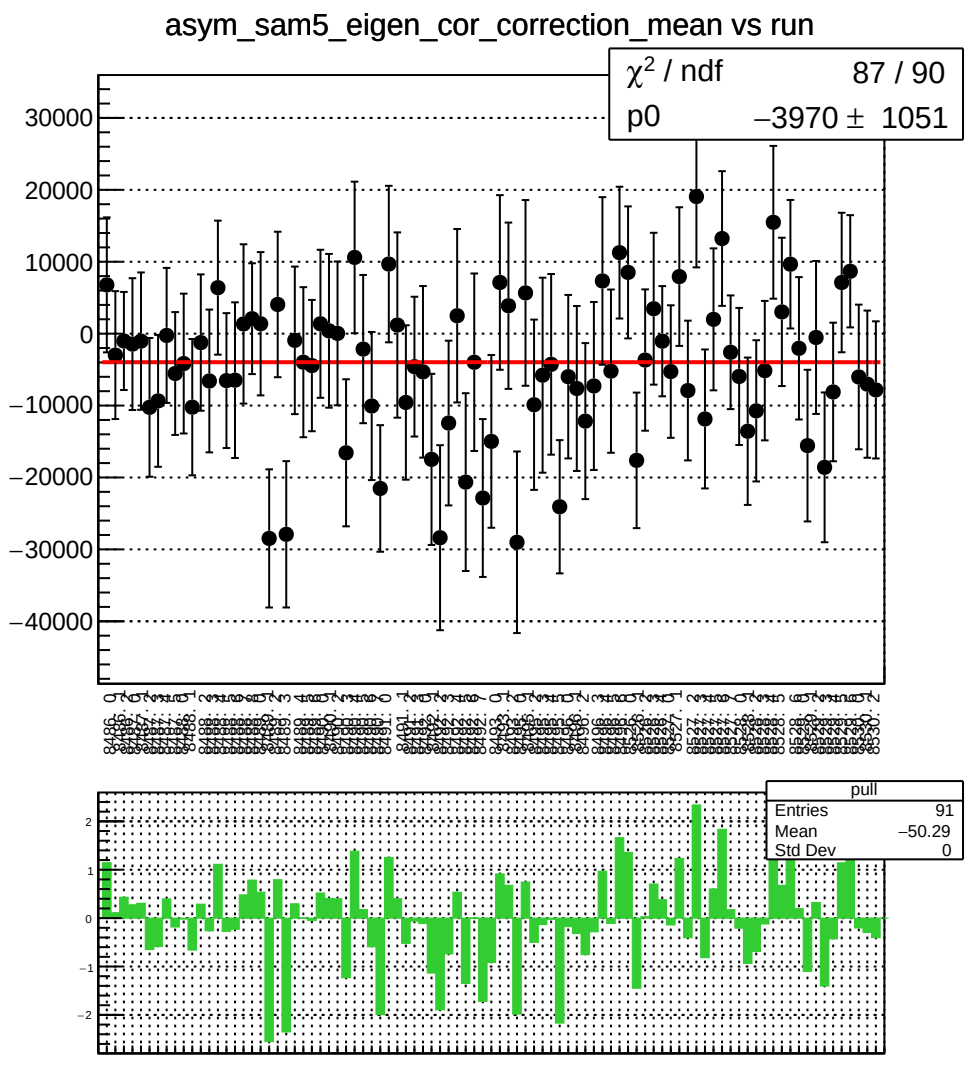

pull1D
Entries 91
Mean −0.02365
Std Dev 0.9775
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

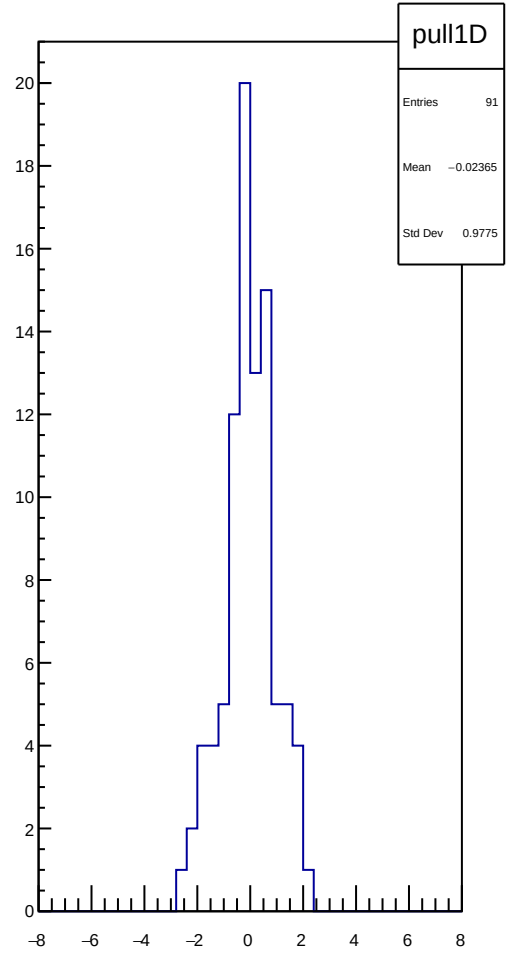

asym_sam5_cor_correction_rms vs run
χ² / ndf 1.595e+04 / 90
p0 978 ± 0.7429
1300
1200
1100
1000
900
800

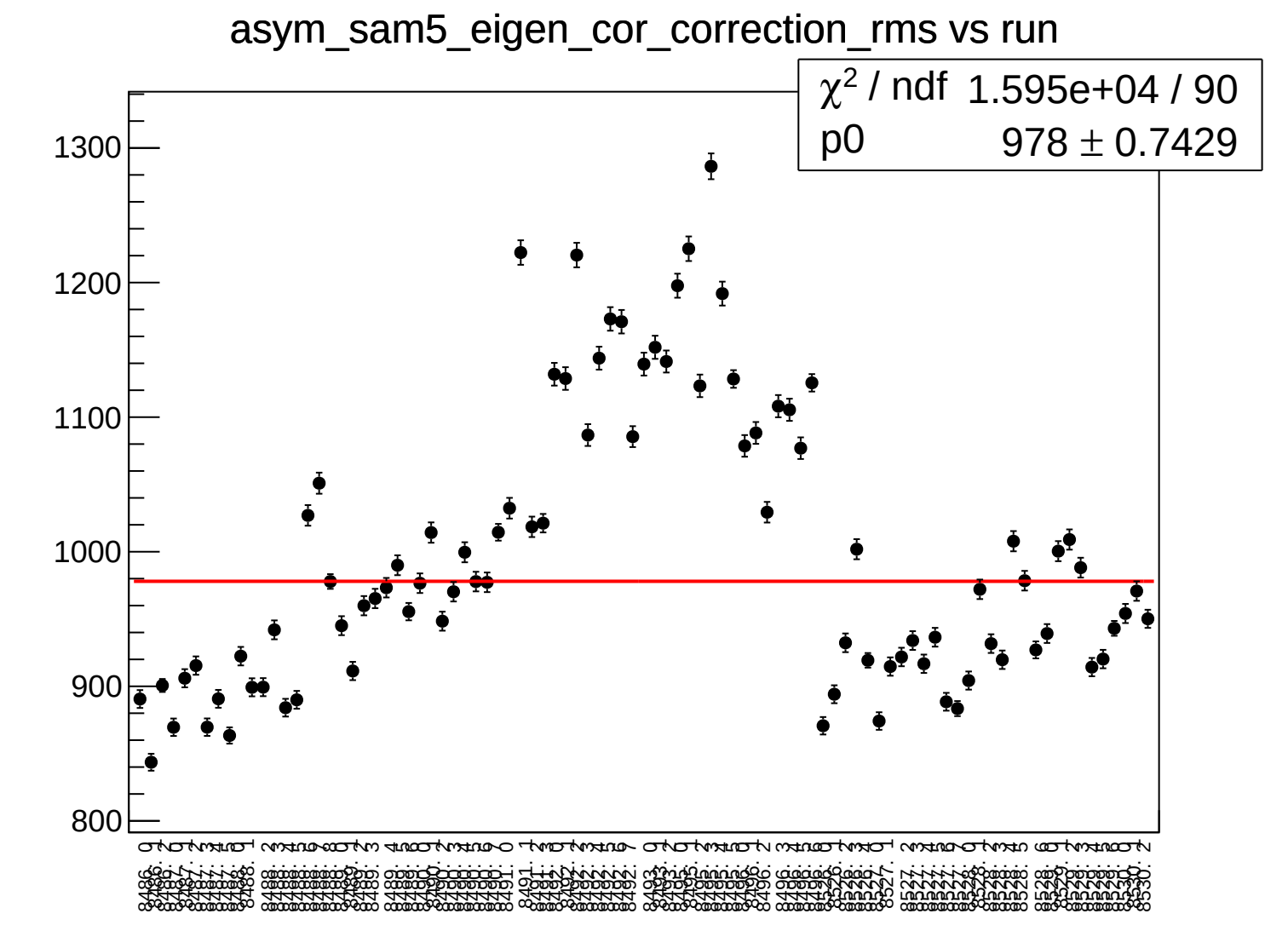

eigen_cor_asym_sam5_mean vs run
χ² / ndf 120.2 / 90
p0 83.89 ± 140.6
4000
2000
0
−2000
−4000
pull
Entries 91
Mean −735
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

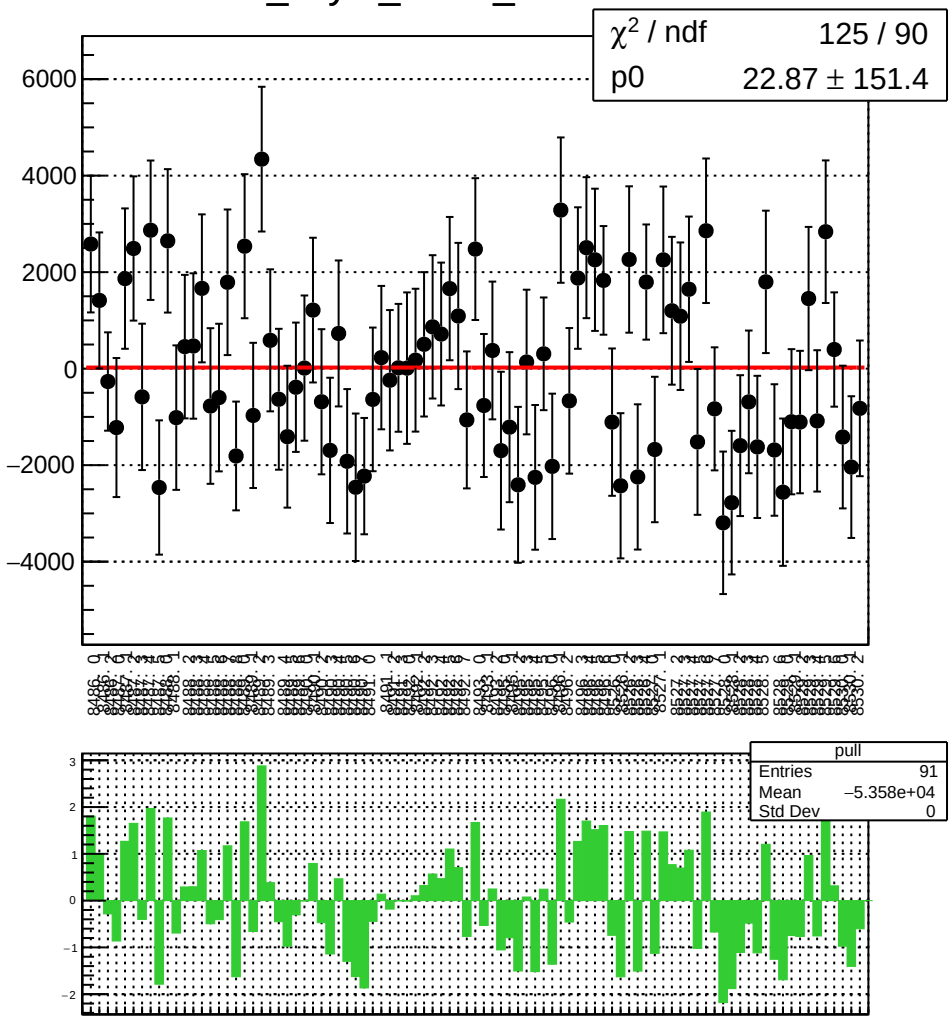

pull1D
Entries 91
Mean 0.006813
Std Dev 1.149
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

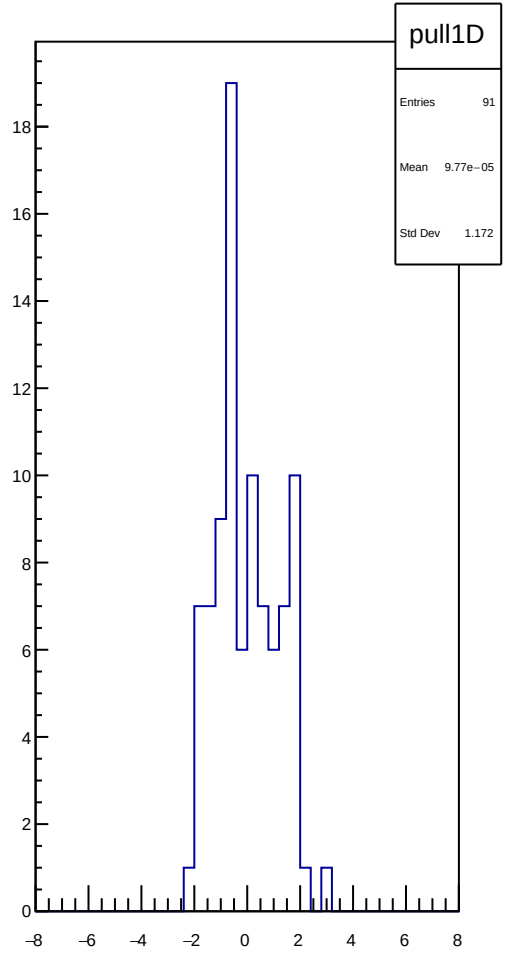

eigen_cor_asym_sam5_rms vs run
χ^2 / ndf 1003 / 90
p0 131.4 ± 0.09939
145
140
135
130
125

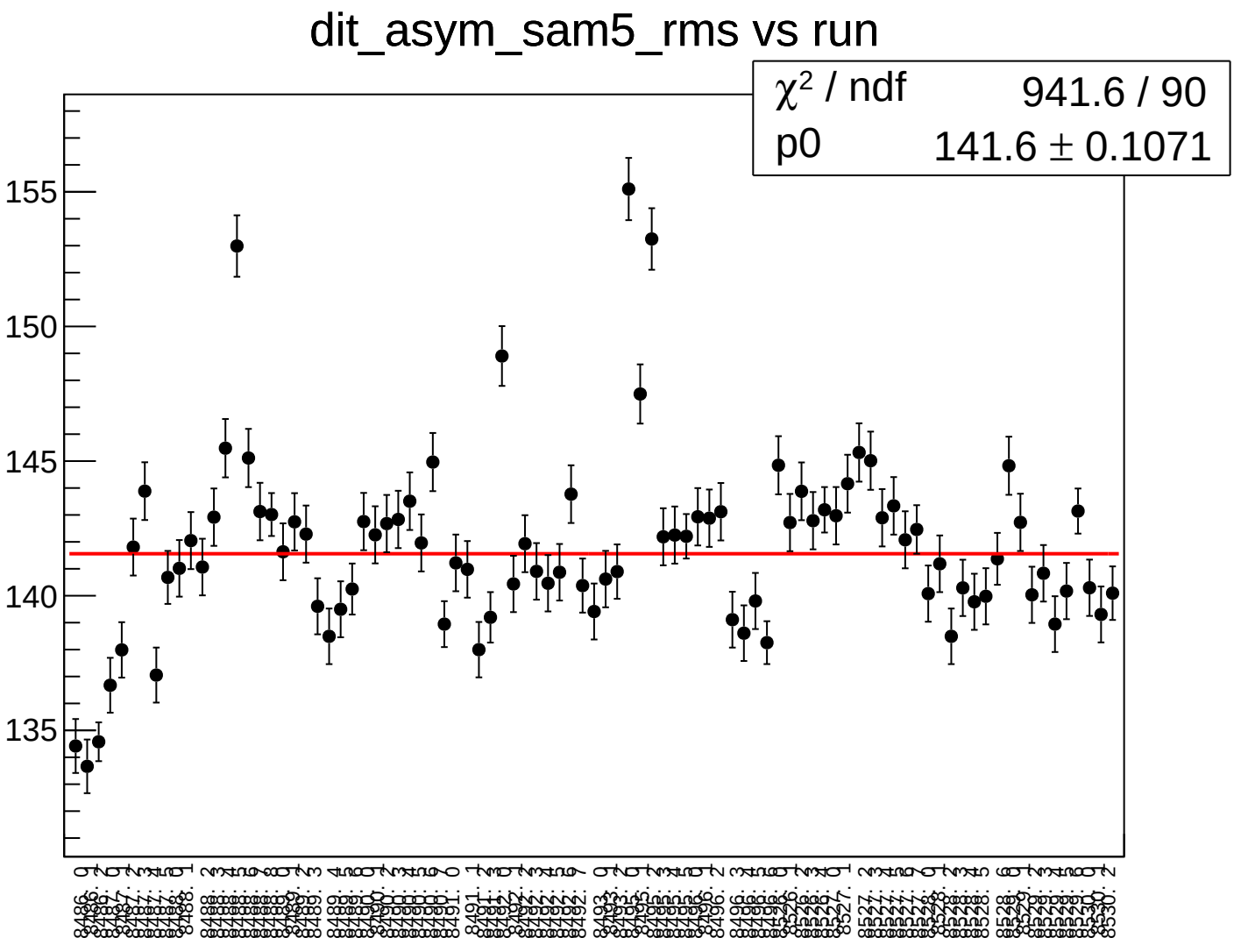

asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 87 / 90
p0 −3970 ± 1051
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean −50.29
Std Dev 0
2
1
0
−1
−2

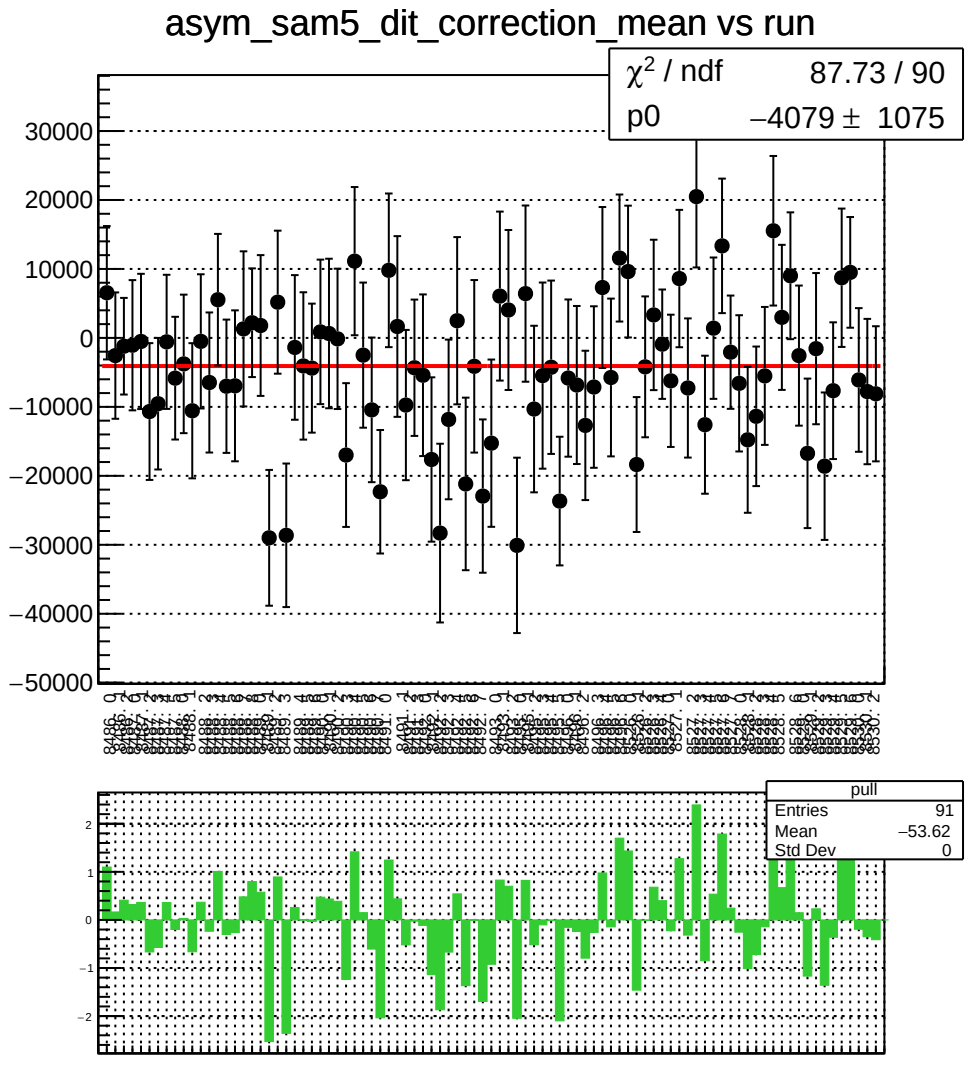

pull1D
Entries 91
Mean −0.02365
Std Dev 0.9775
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

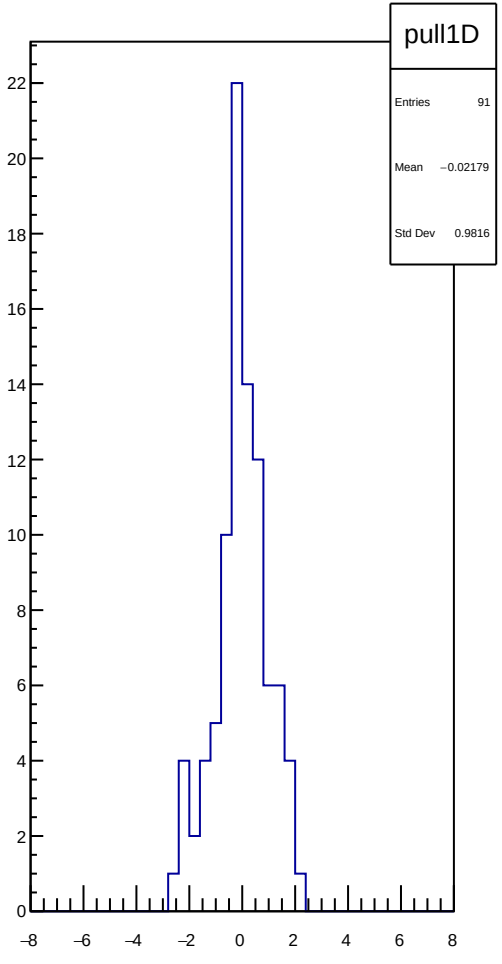

asym_sam5_eigen_cor_correction_rms vs run
χ² / ndf 1.595e+04 / 90
p0 978 ± 0.7429
1300
1200
1100
1000
900
800

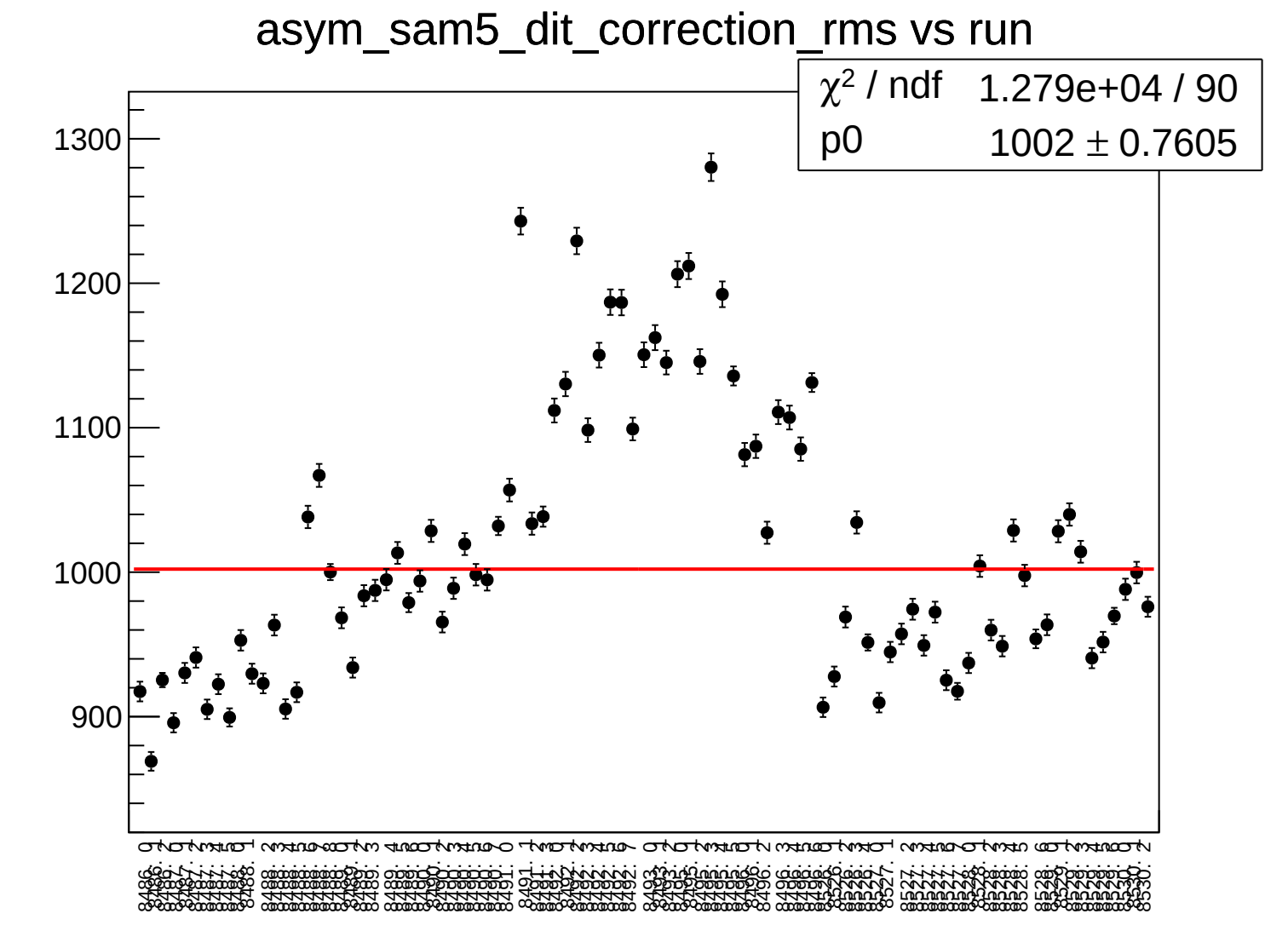

dit_asym_sam5_mean vs run
χ² / ndf 125 / 90
p0 22.87 ± 151.4
6000
4000
2000
0
−2000
−4000
pull
Entries 91
Mean −5.358e+04
Std Dev 0
3
2
1
0
−1
−2

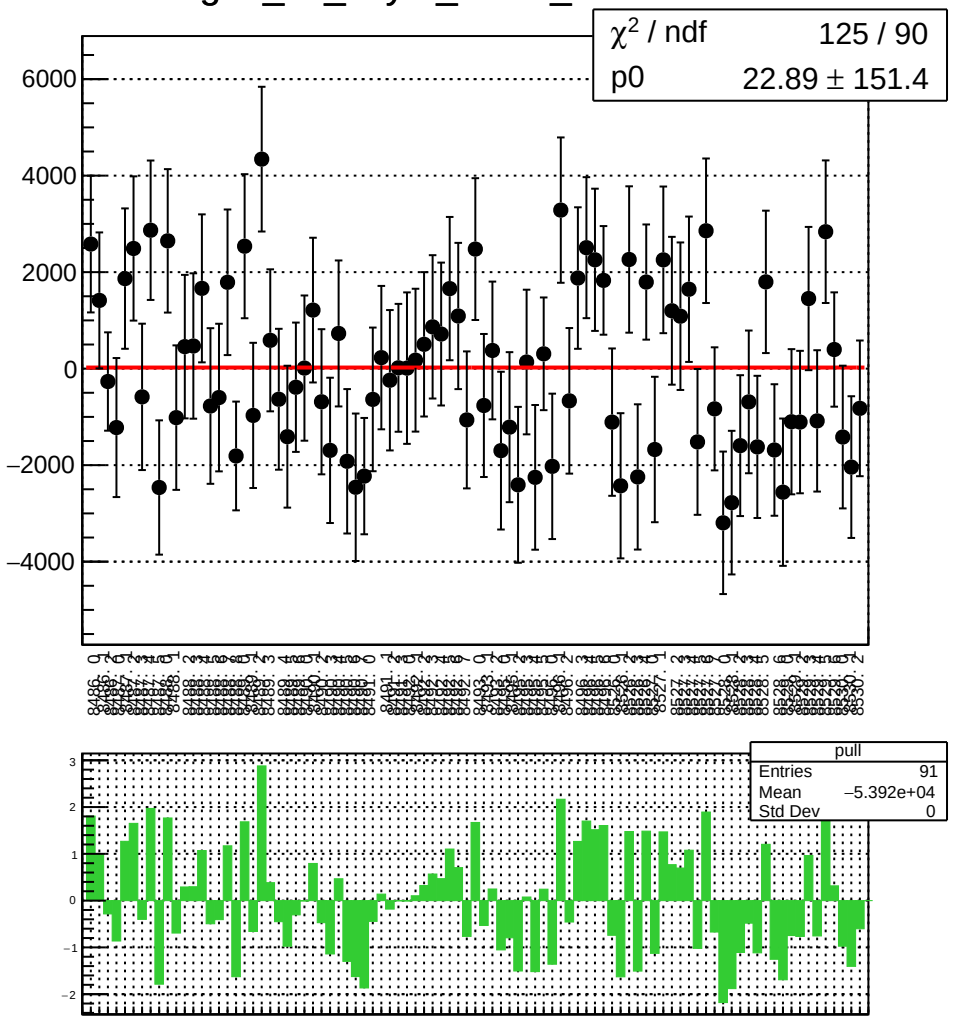

pull1D
Entries 91
Mean 9.77e−05
Std Dev 1.172
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

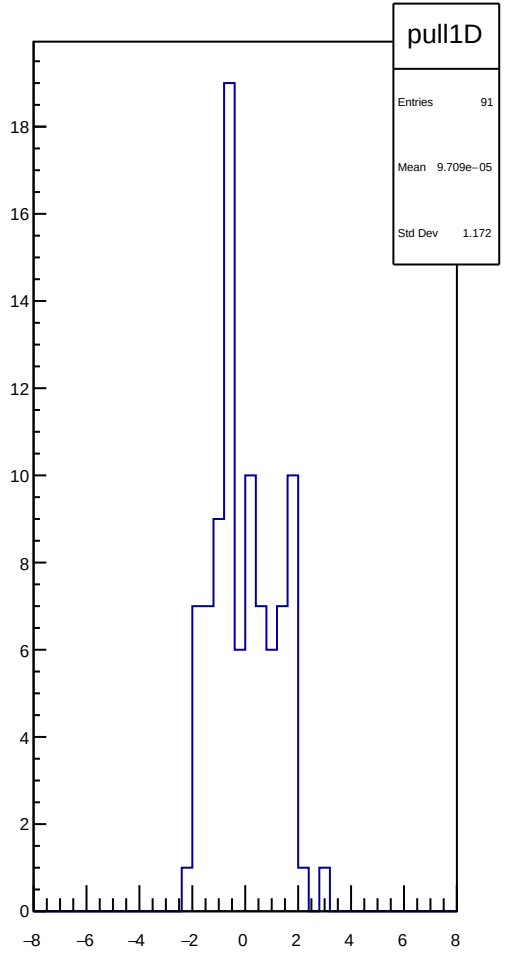

dit_asym_sam5_rms vs run
χ² / ndf 941.6 / 90
p0 141.6 ± 0.1071
155
150
145
140
135

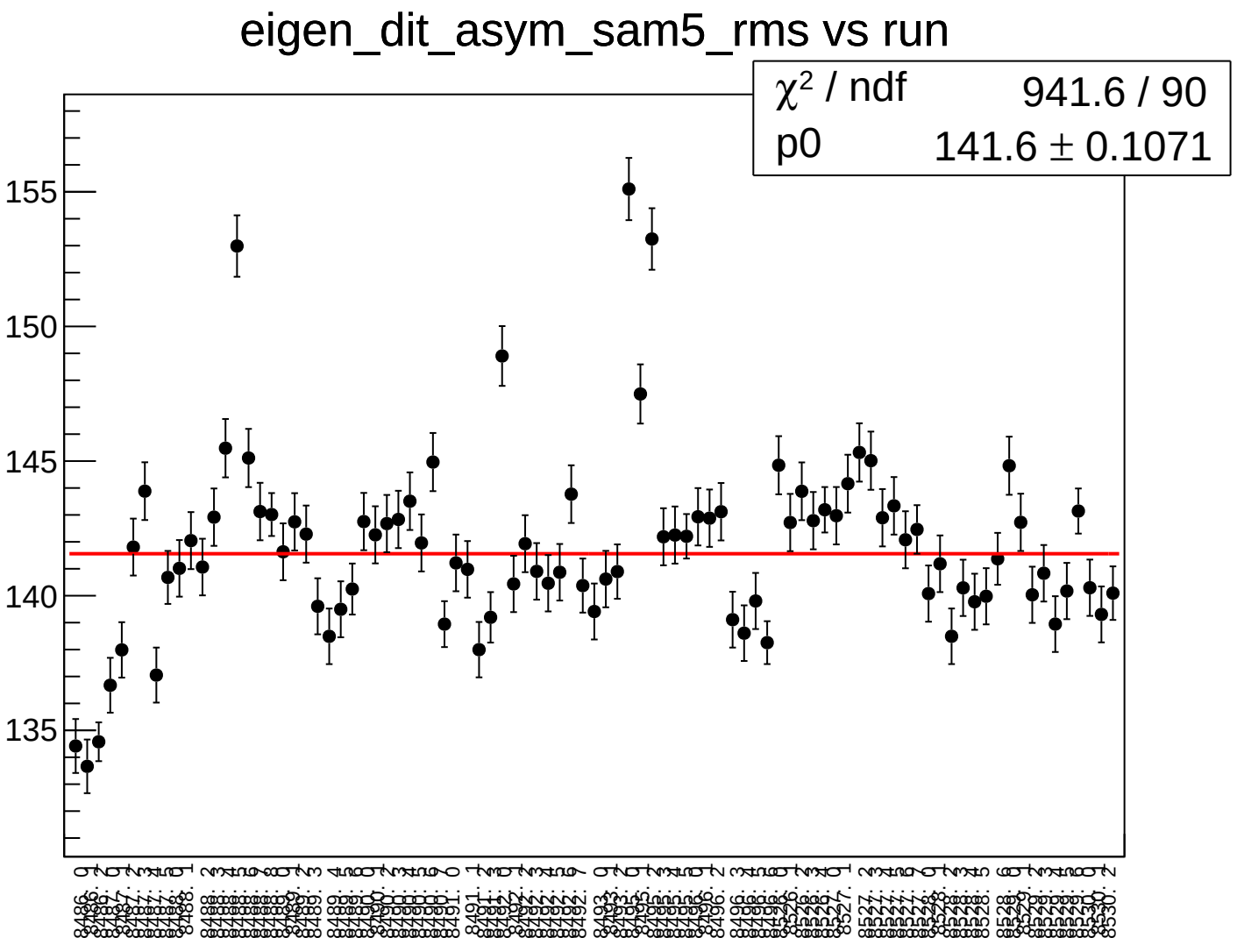

asym_sam5_dit_correction_mean vs run
χ² / ndf 87.73 / 90
p0 −4079 ± 1075
pull
Entries 91
Mean −53.62
Std Dev 0

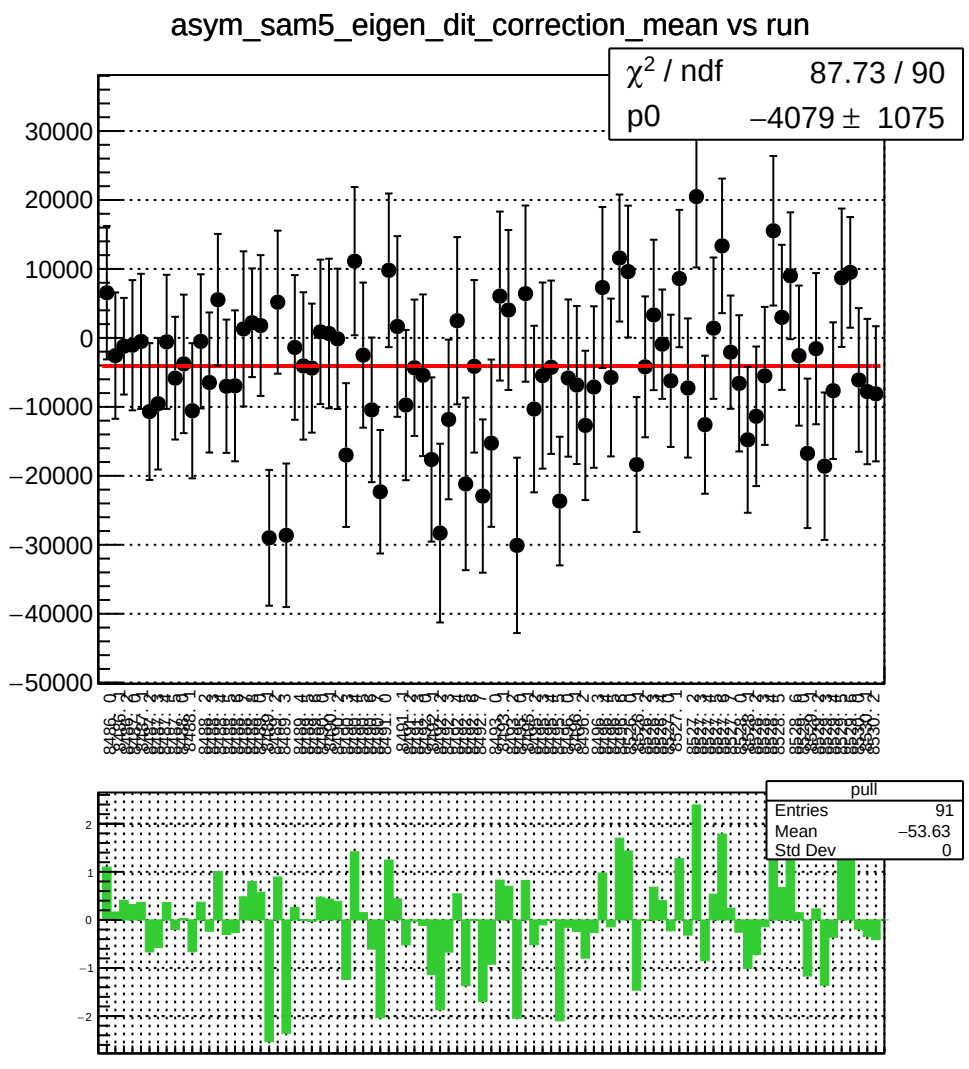

pull1D
Entries 91
Mean −0.02179
Std Dev 0.9816

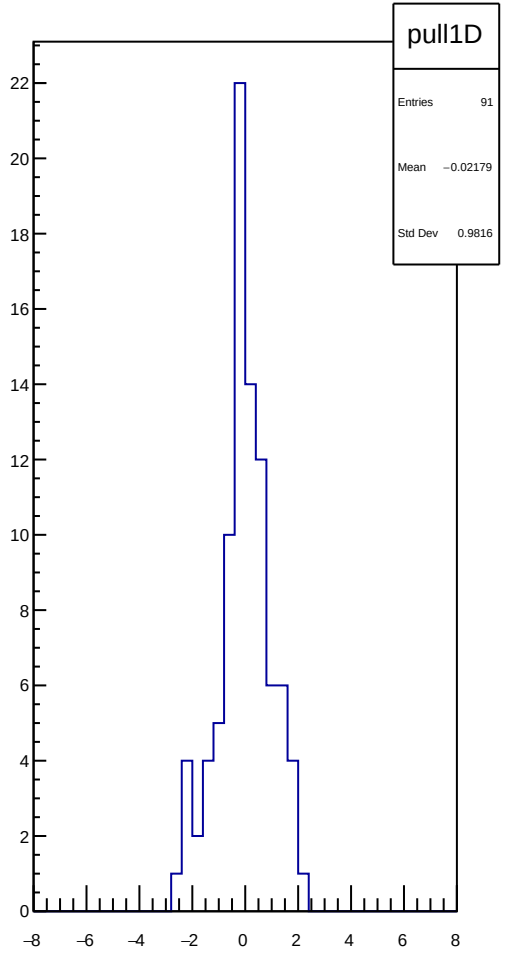

asym_sam5_dit_correction_rms vs run
χ² / ndf 1.279e+04 / 90
p0 1002 ± 0.7605
1300
1200
1100
1000
900

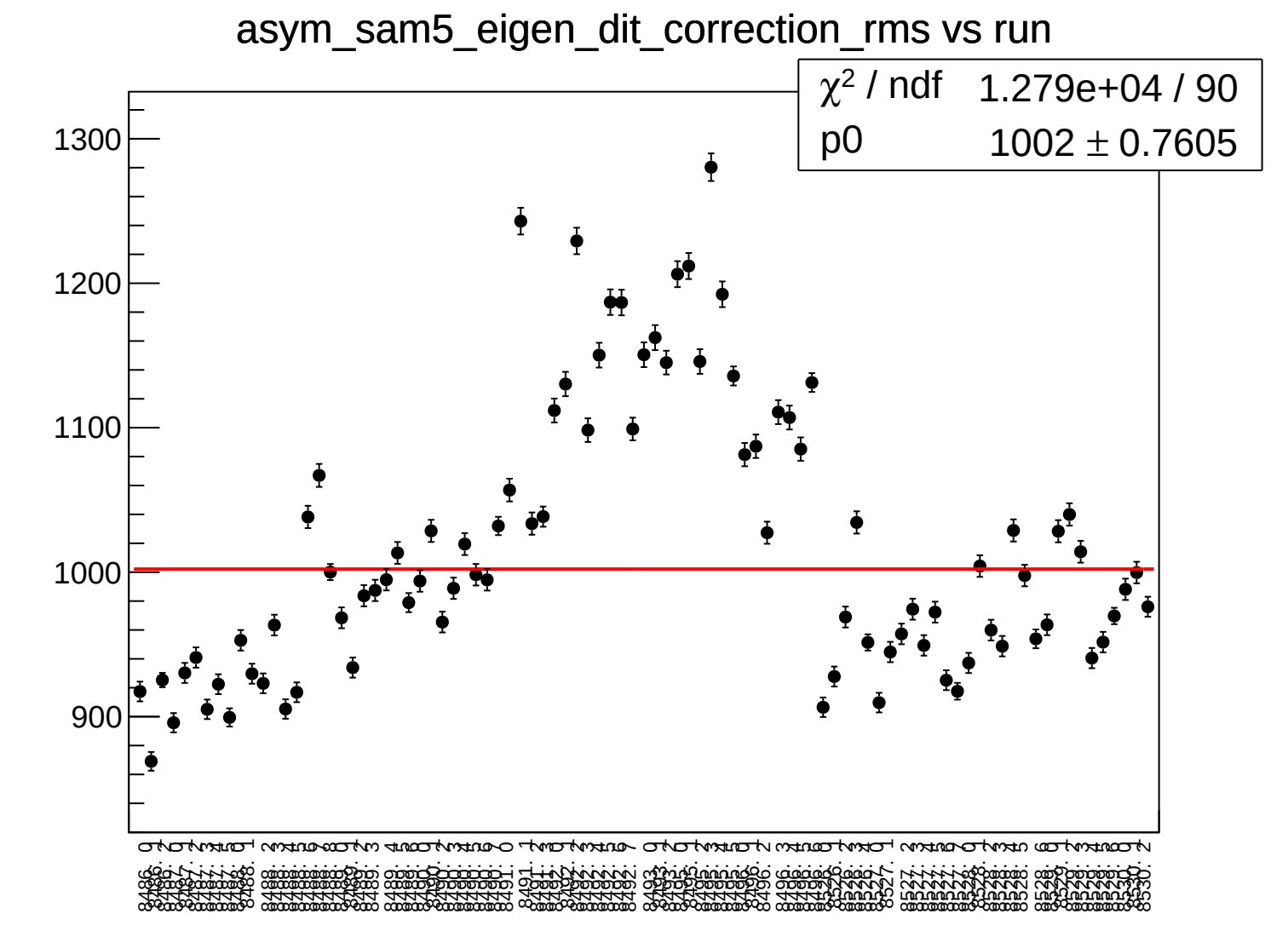

eigen_dit_asym_sam5_mean vs run
χ² / ndf 125 / 90
p0 22.89 ± 151.4
6000
4000
2000
0
−2000
−4000
pull
Entries 91
Mean −5.392e+04
Std Dev 0
3
2
1
0
−1
−2

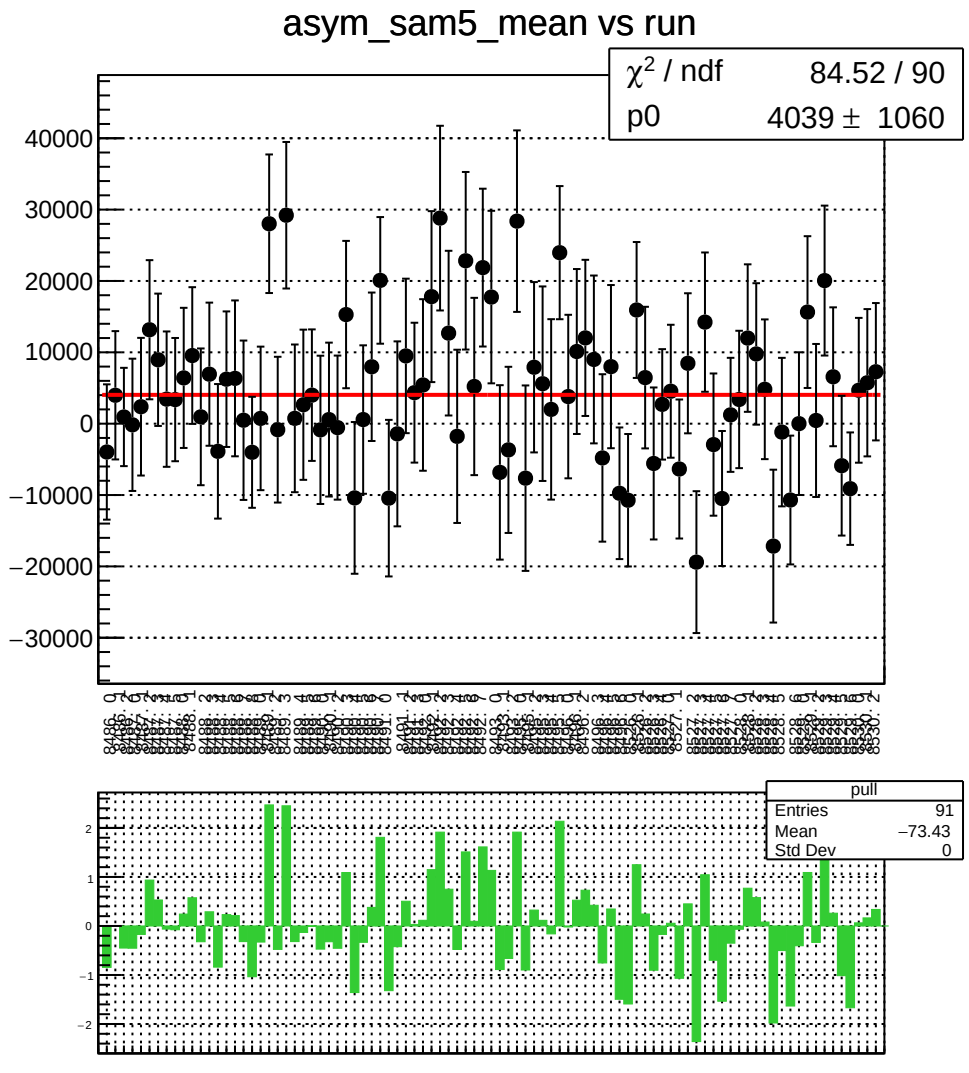

pull1D
Entries 91
Mean 9.709e−05
Std Dev 1.172
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

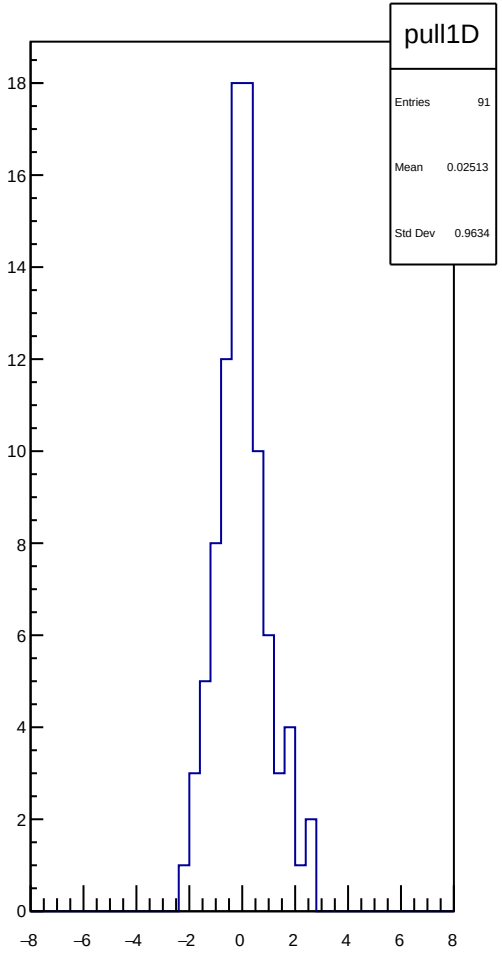

eigen_dit_asym_sam5_rms vs run
χ² / ndf 941.6 / 90
p0 141.6 ± 0.1071
155
150
145
140
135

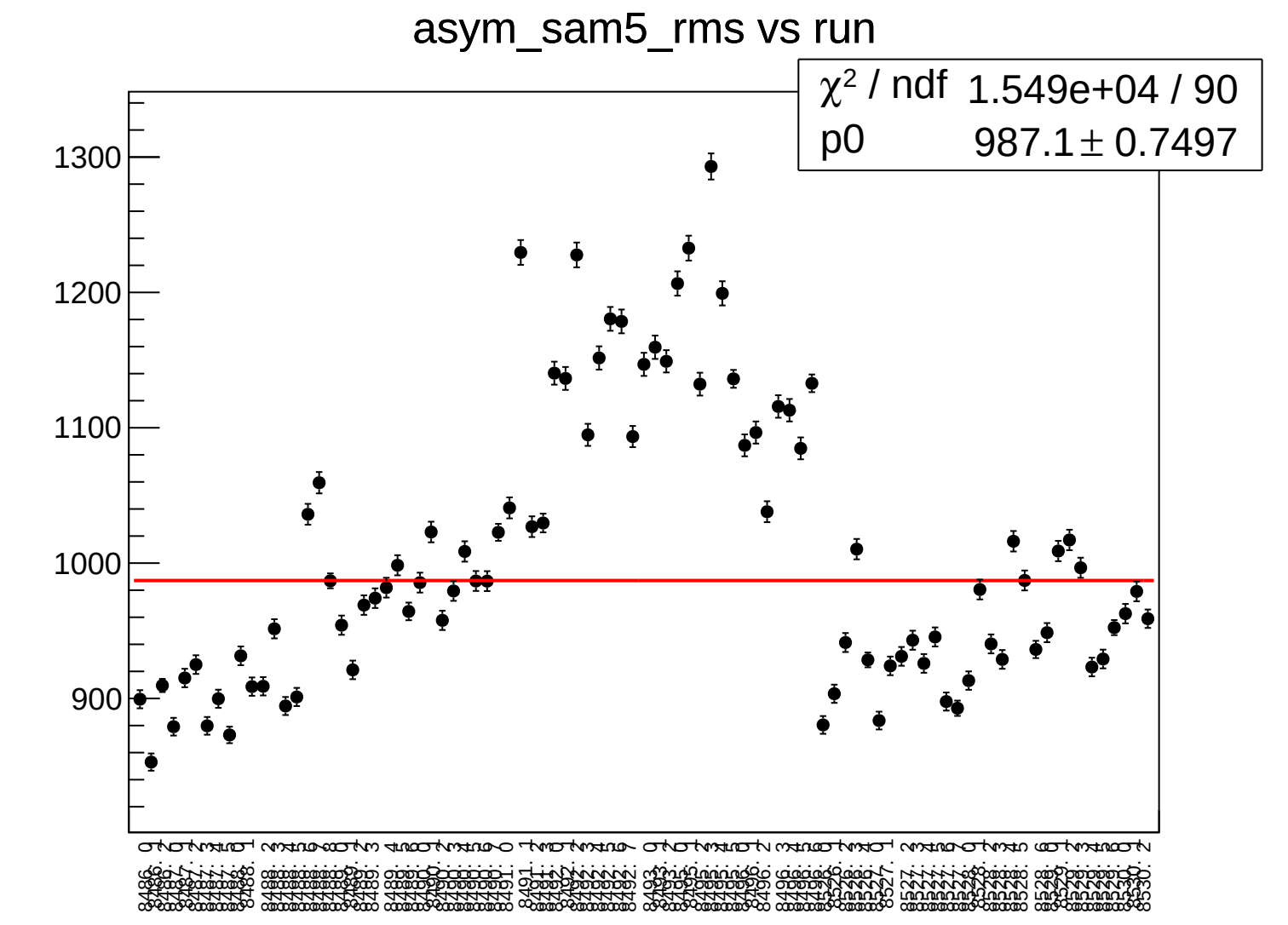

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 87.73 / 90
p0 −4079 ± 1075
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 91
Mean −53.63
Std Dev 0
2
1
0
−1
−2

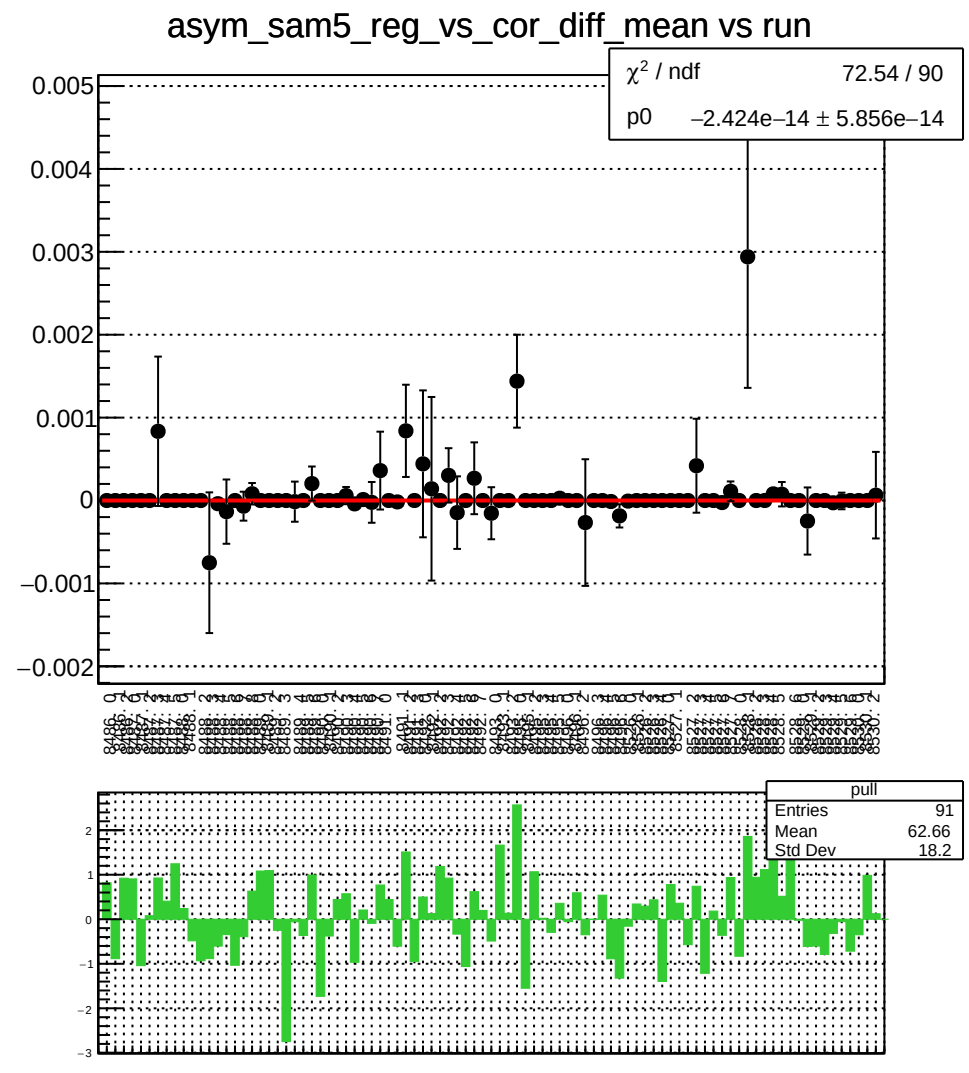

pull1D
Entries 91
Mean −0.02179
Std Dev 0.9816
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

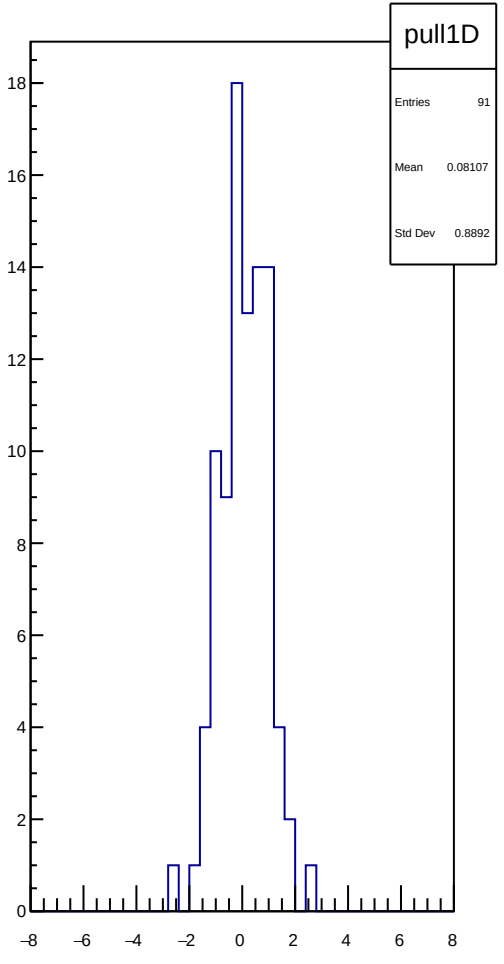

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 1.279e+04 / 90
p0 1002 ± 0.7605
1300
1200
1100
1000
900

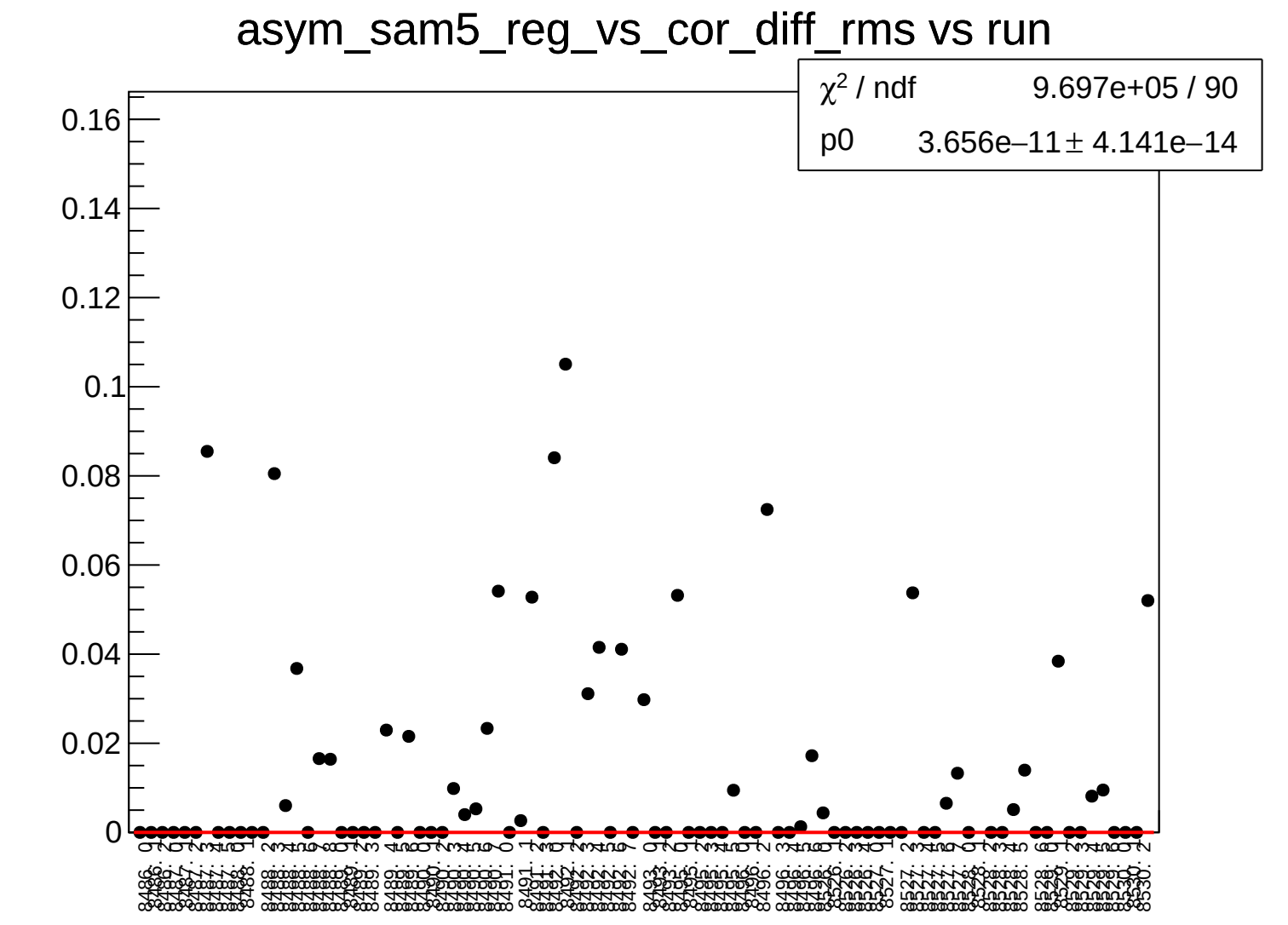

asym_sam5_mean vs run
χ² / ndf 84.52 / 90
p0 4039 ± 1060
pull
Entries 91
Mean −73.43
Std Dev 0

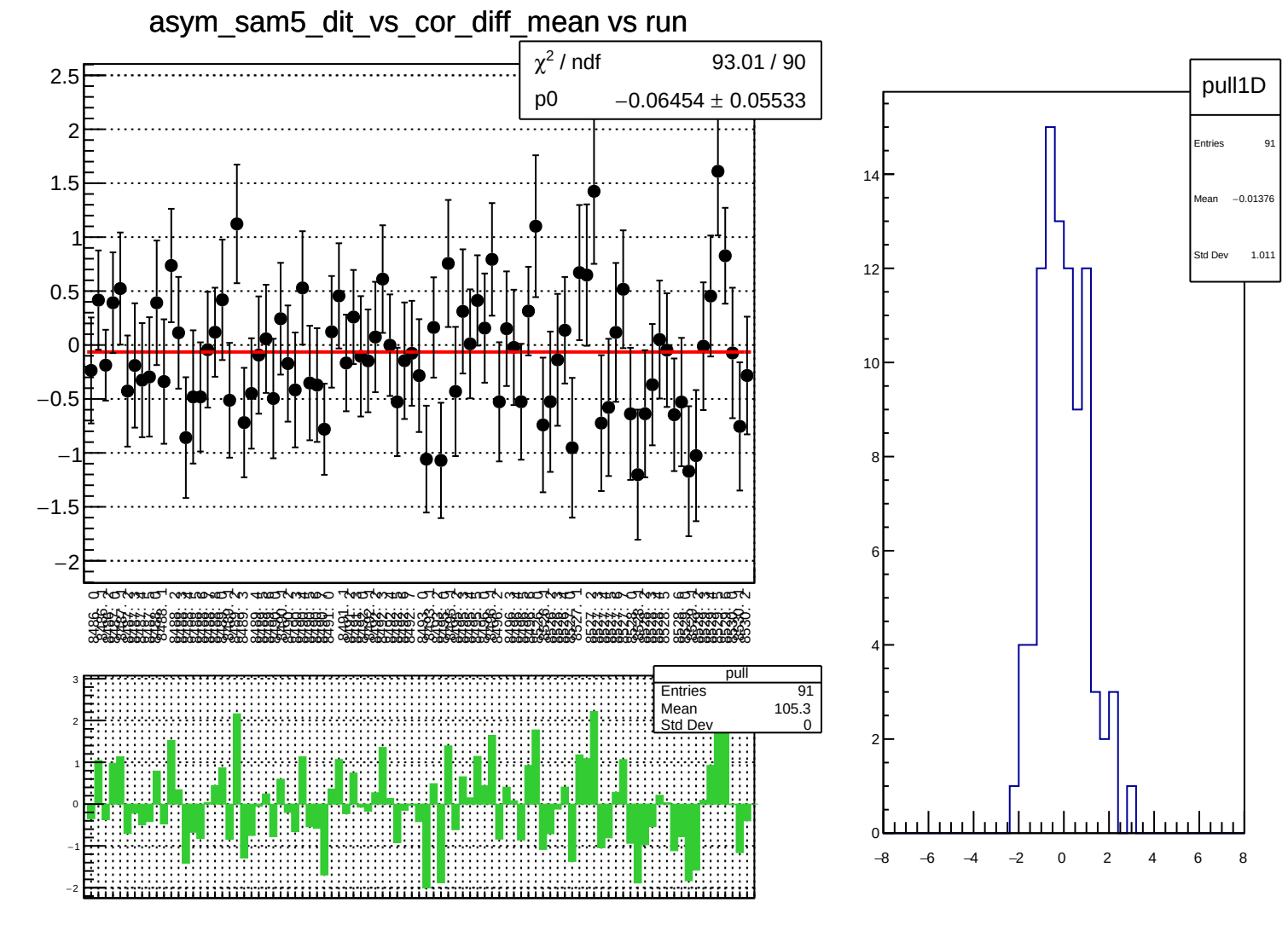

pull1D
Entries 91
Mean 0.02513
Std Dev 0.9634

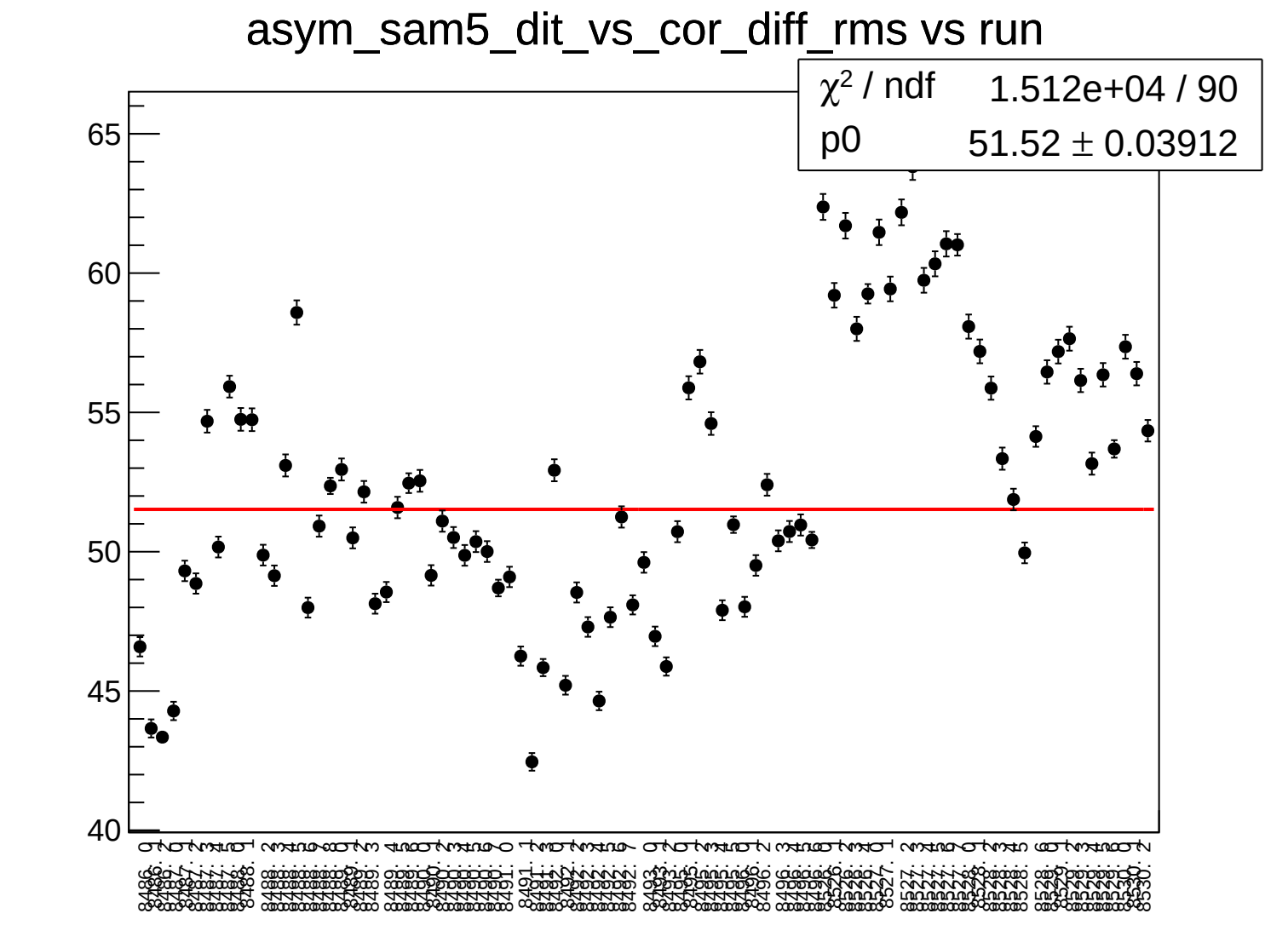

asym_sam5_rms vs run
χ² / ndf 1.549e+04 / 90
p0 987.1 ± 0.7497
1300
1200
1100
1000
900

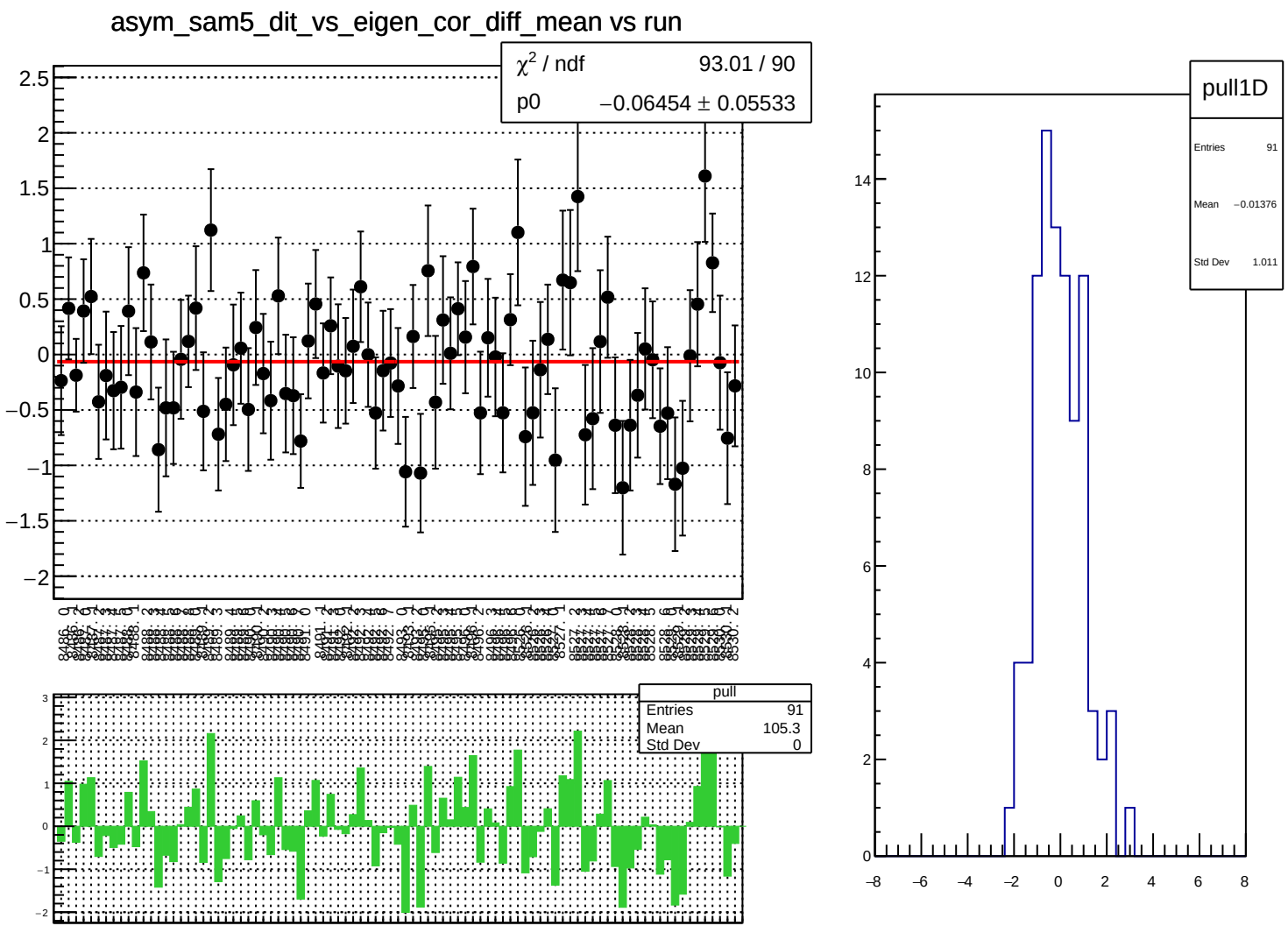

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 72.54 / 90
p0 −2.424e−14 ± 5.856e−14
0.005
0.004
0.003
0.002
0.001
0
−0.001
−0.002
pull
Entries 91
Mean 62.66
Std Dev 18.2
2
1
0
−1
−2
−3

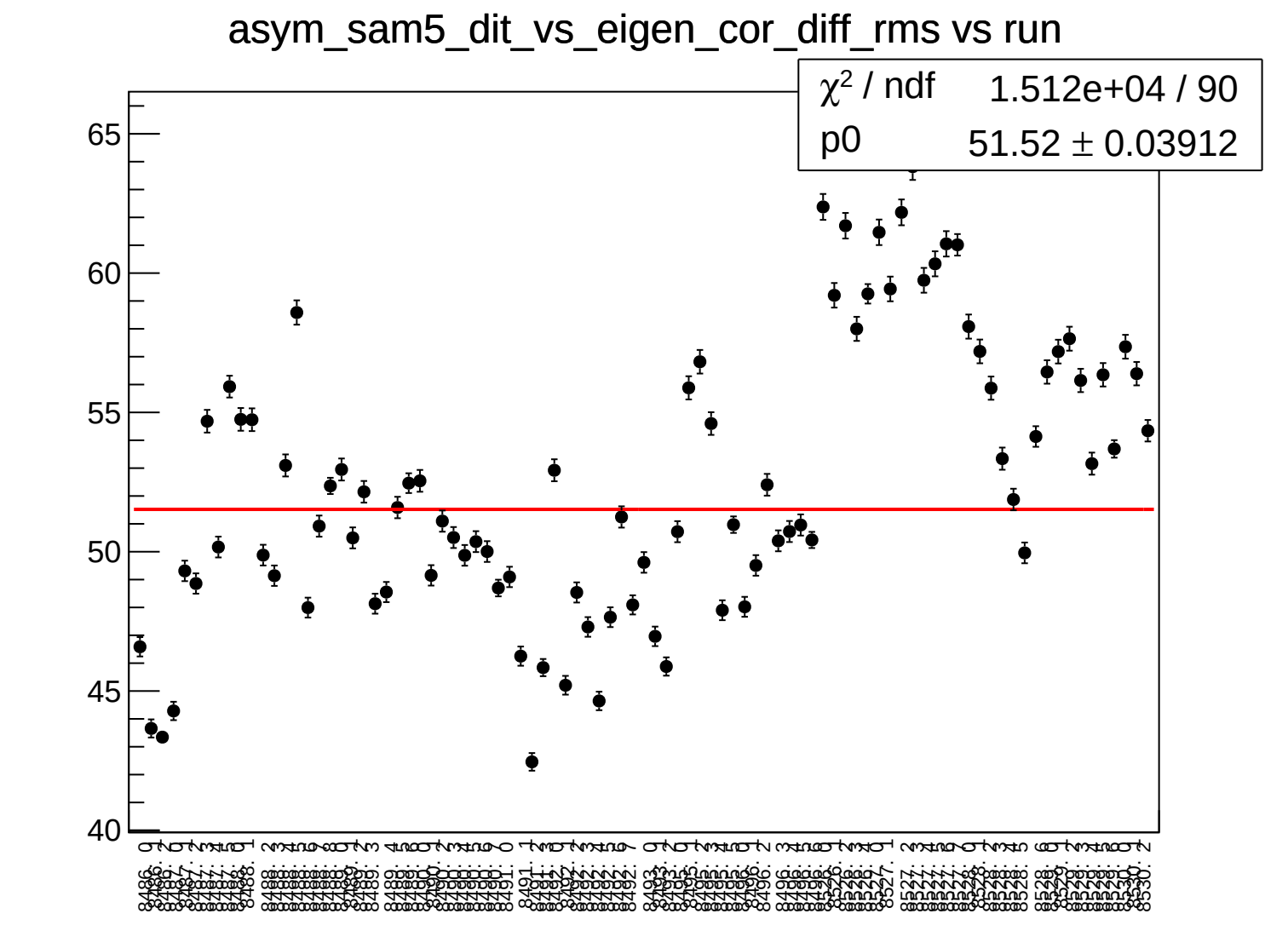

pull1D
Entries 91
Mean 0.08107
Std Dev 0.8892
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

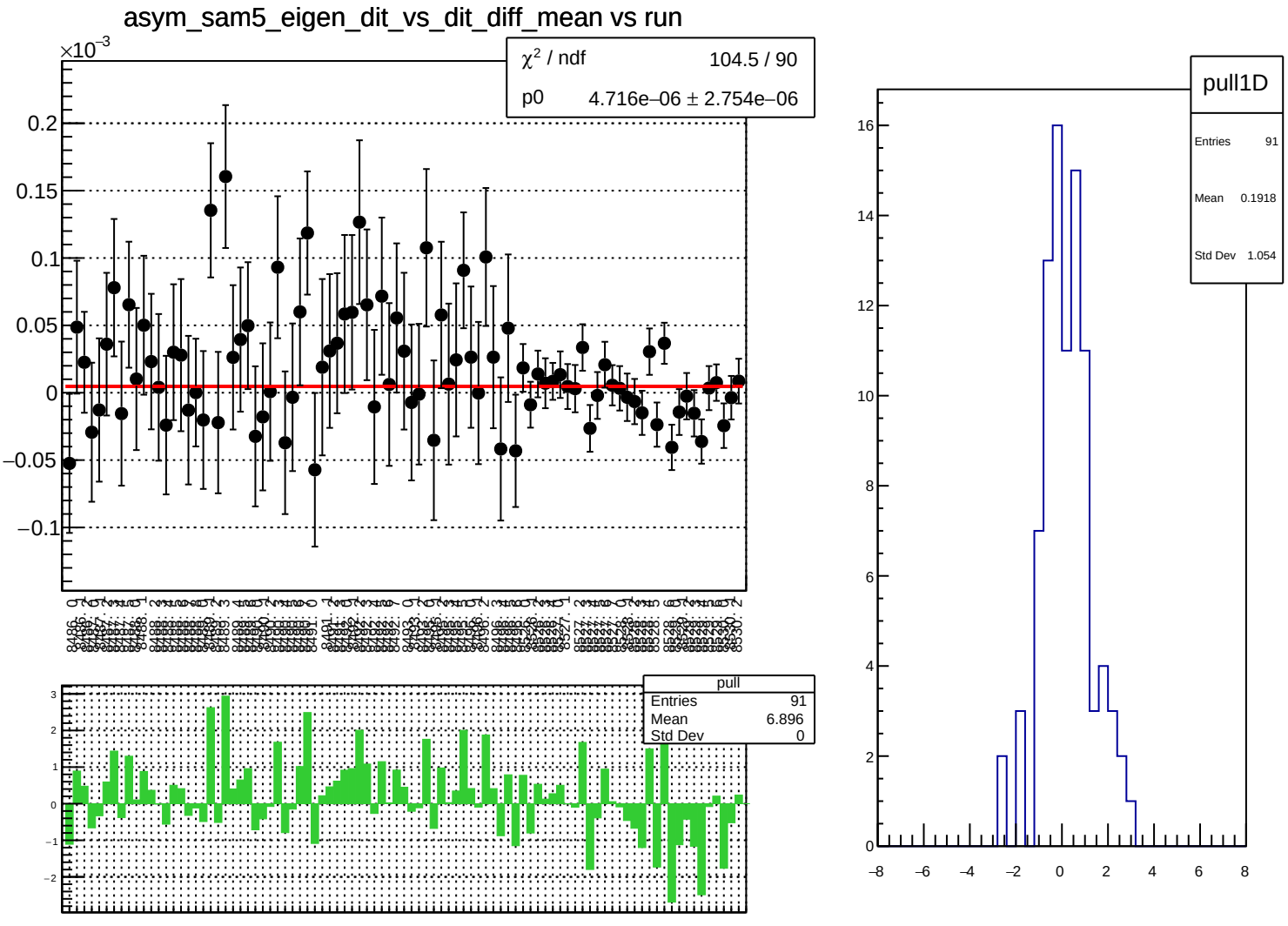

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 9.697e+05 / 90
p0 3.656e−11 ± 4.141e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

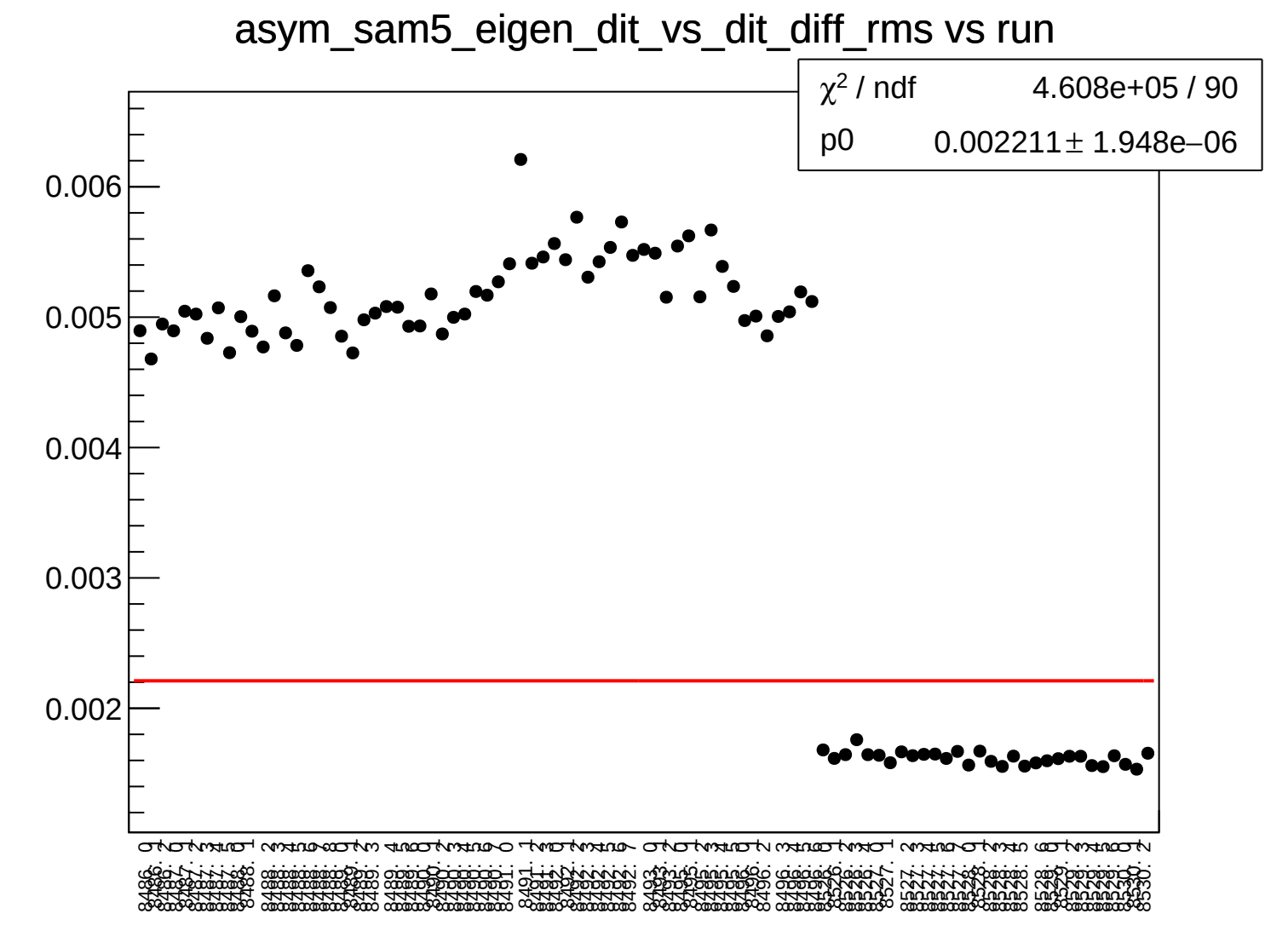

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 93.01 / 90
p0 −0.06454 ± 0.05533
pull
Entries 91
Mean 105.3
Std Dev 0
pull1D
Entries 91
Mean −0.01376
Std Dev 1.011

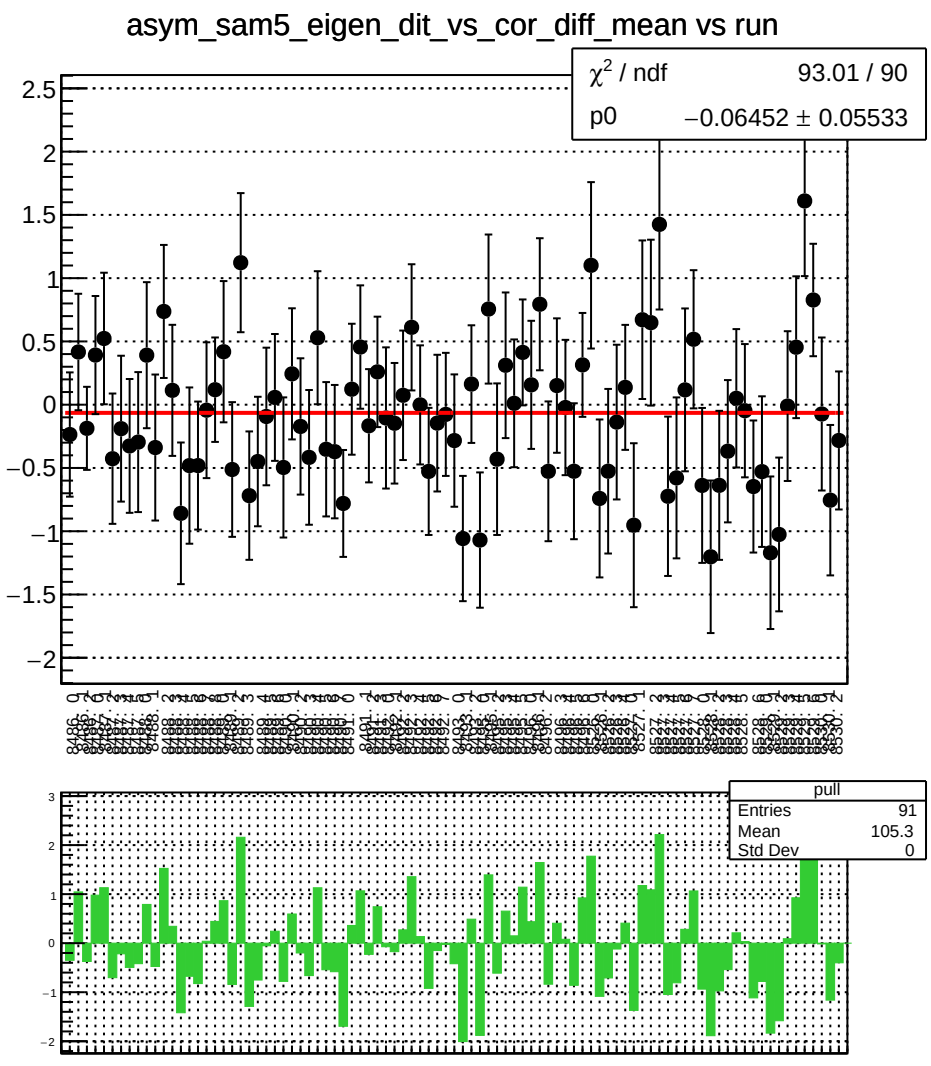

asym_sam5_dit_vs_cor_diff_rms vs run
χ² / ndf 1.512e+04 / 90
p0 51.52 ± 0.03912
65
60
55
50
45
40

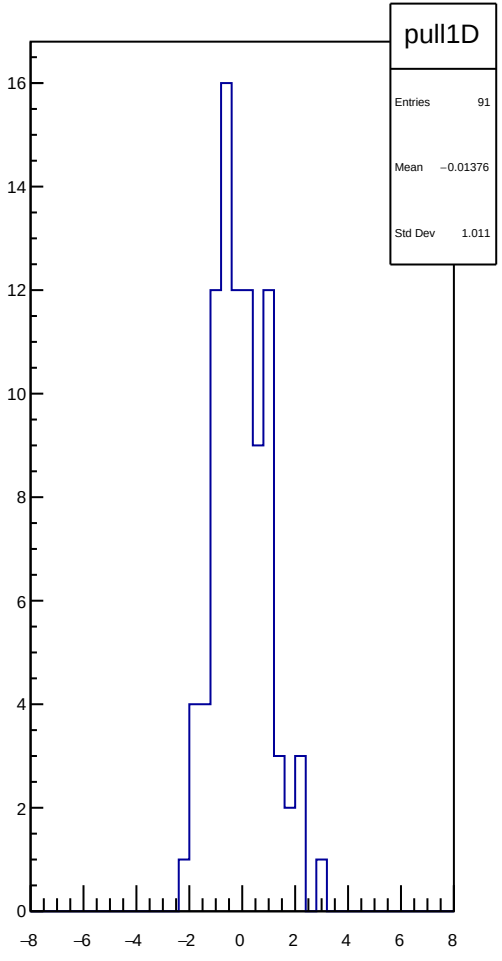

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.01 / 90
p0 −0.06454 ± 0.05533
pull
Entries 91
Mean 105.3
Std Dev 0
pull1D
Entries 91
Mean −0.01376
Std Dev 1.011

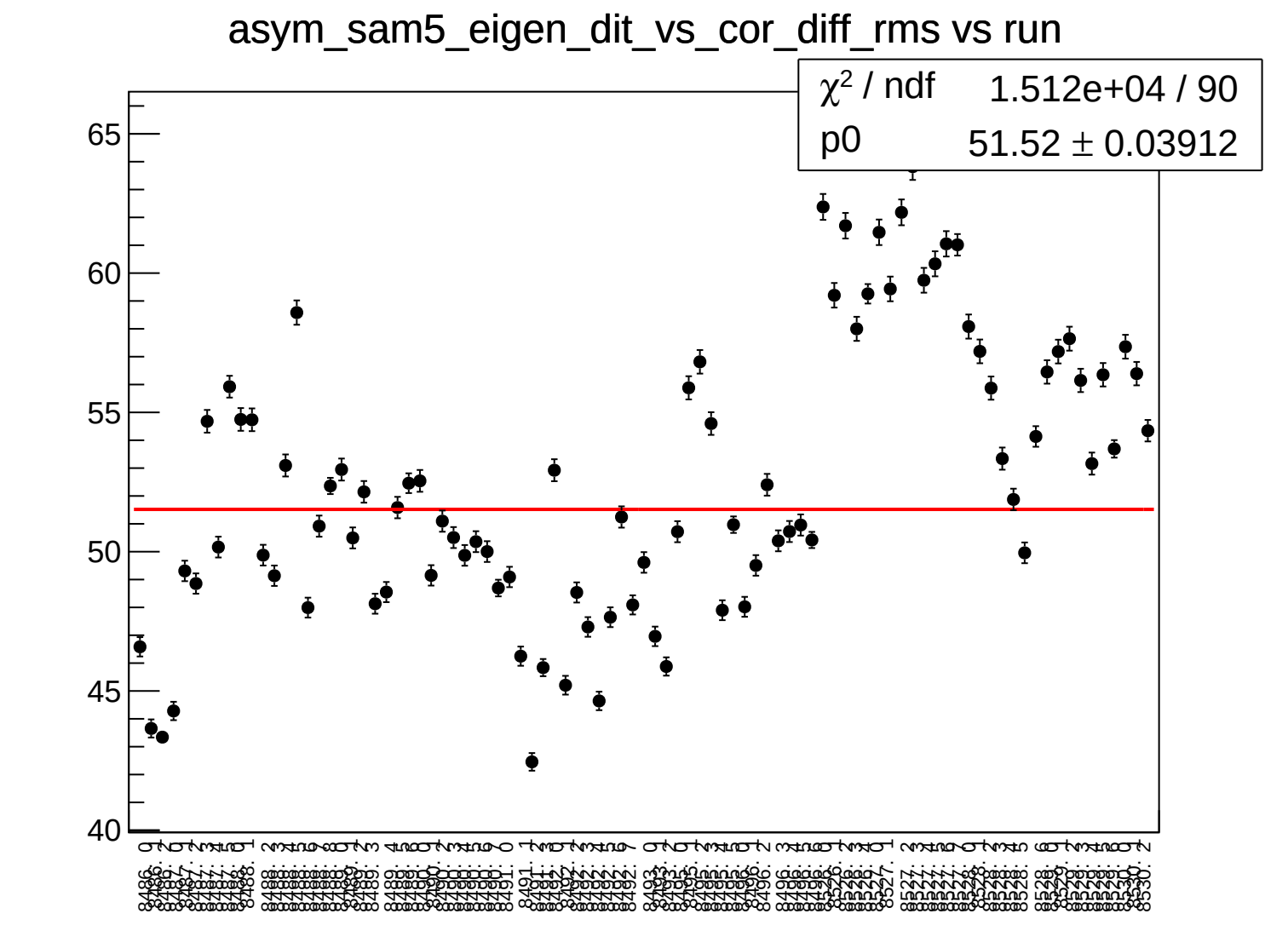

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.512e+04 / 90
p0 51.52 ± 0.03912
65
60
55
50
45
40

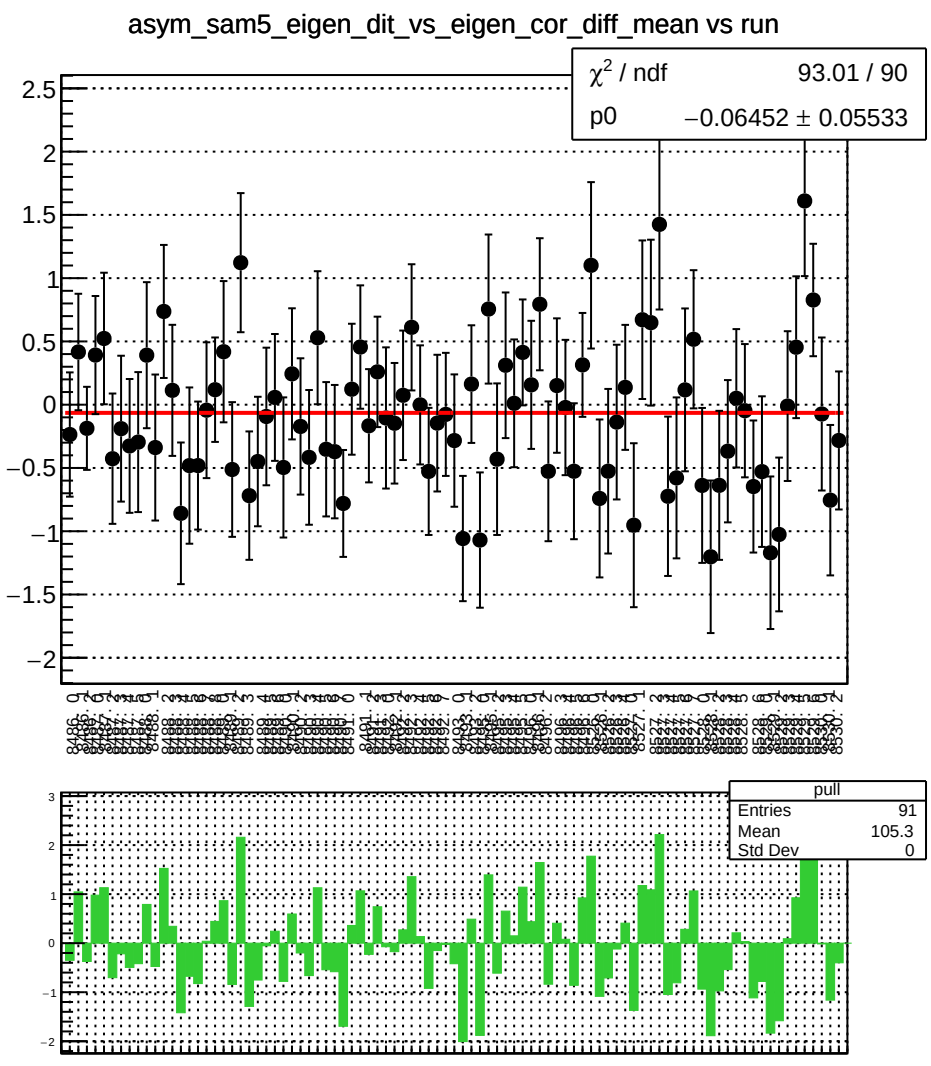

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 104.5 / 90
p0 4.716e−06 ± 2.754e−06
0.2
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 91
Mean 6.896
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.1918
Std Dev 1.054
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

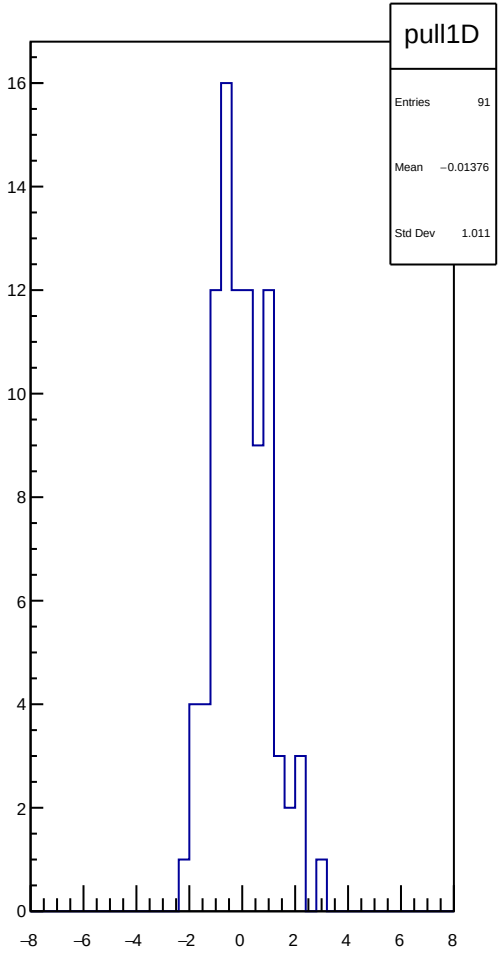

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.608e+05 / 90
p0 0.002211 ± 1.948e−06
0.006
0.005
0.004
0.003
0.002

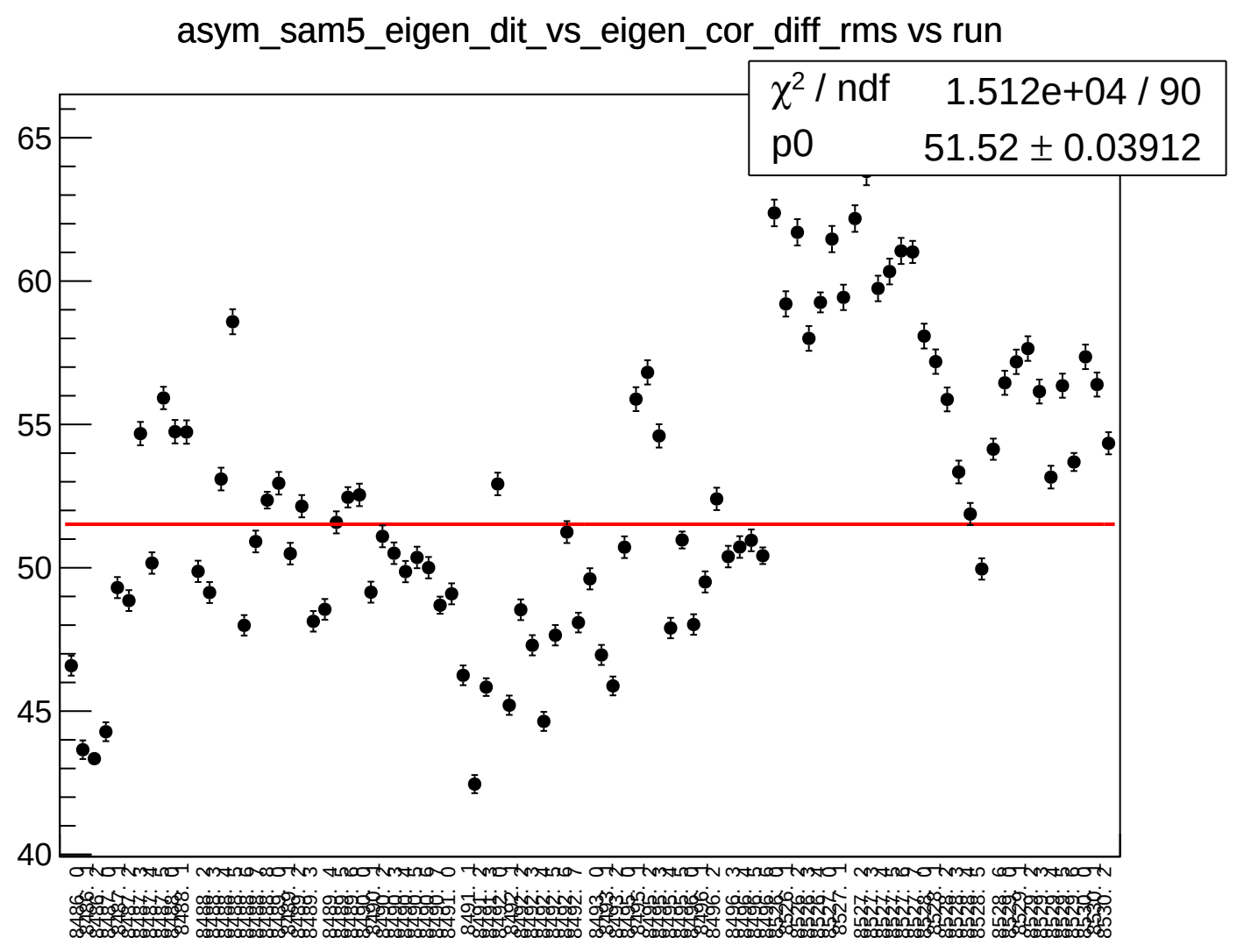

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.01 / 90
p0 −0.06452 ± 0.05533
pull
Entries 91
Mean 105.3
Std Dev 0

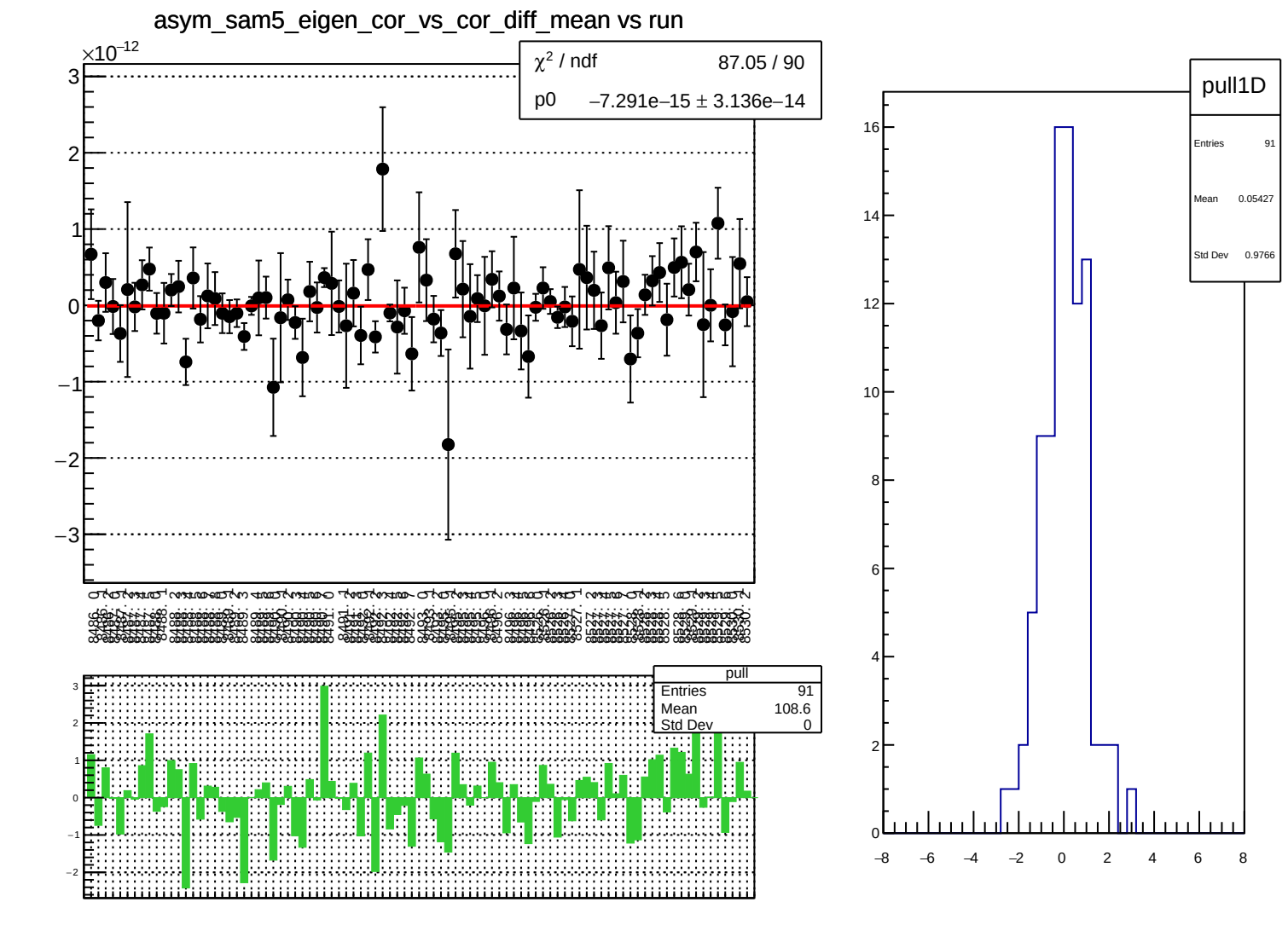

pull1D
Entries 91
Mean −0.01376
Std Dev 1.011

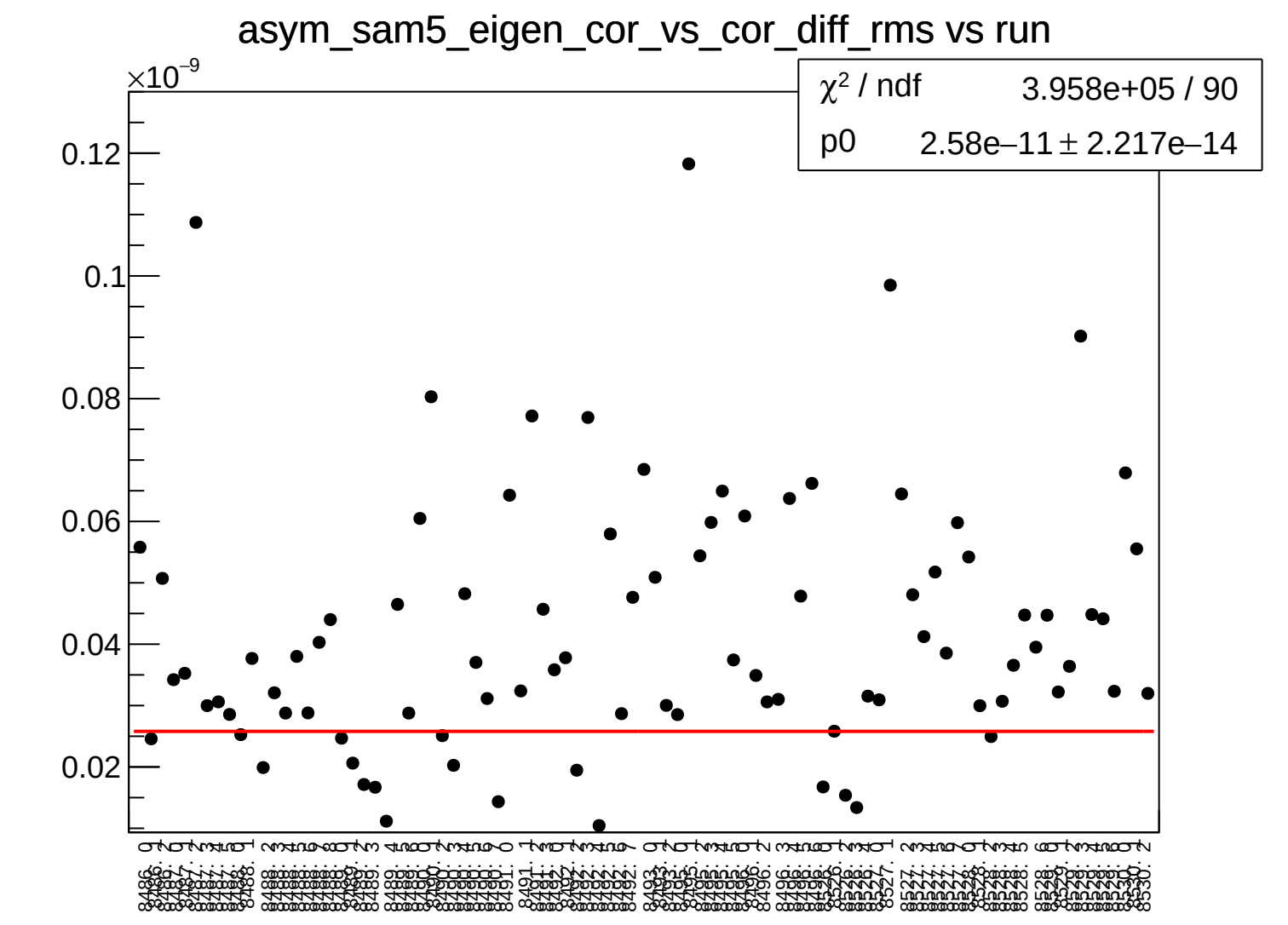

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.512e+04 / 90
p0 51.52 ± 0.03912
65
60
55
50
45
40

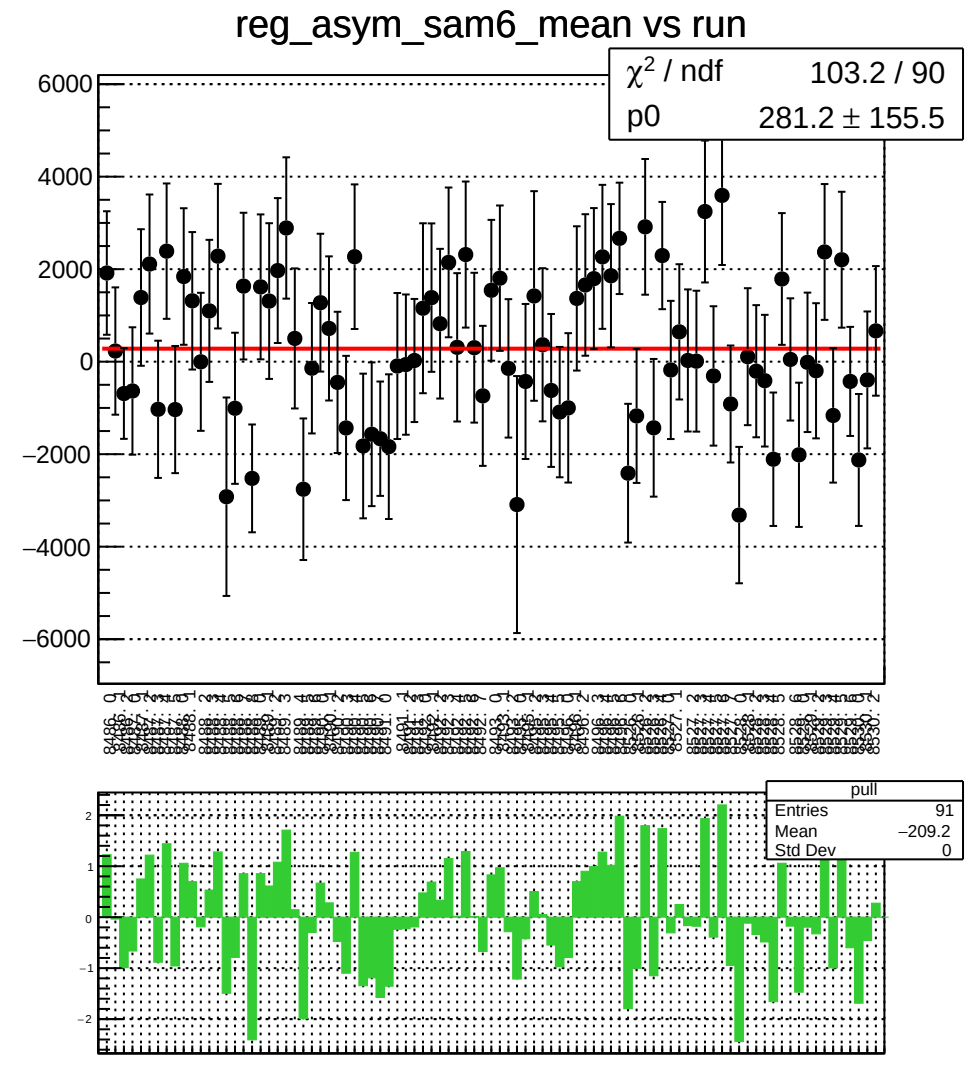

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.01 / 90
p0 −0.06452 ± 0.05533
pull
Entries 91
Mean 105.3
Std Dev 0

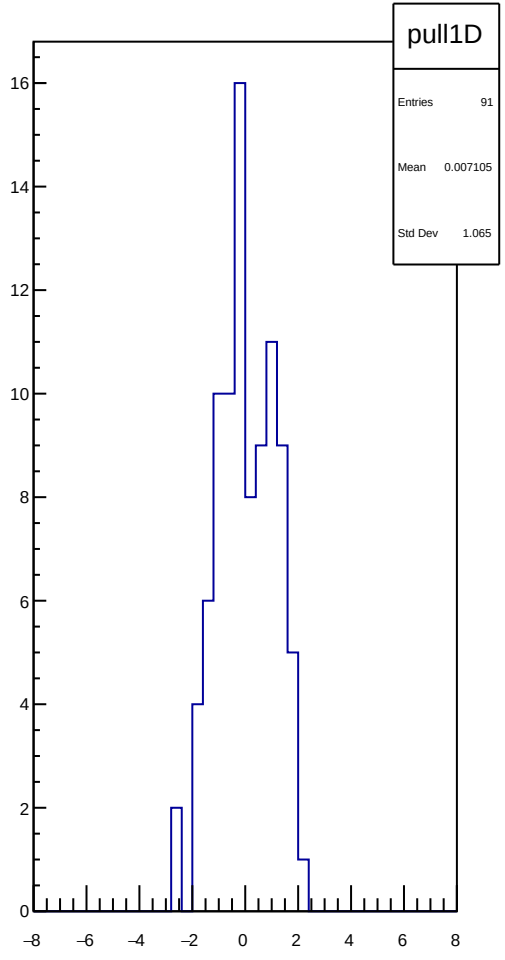

pull1D
Entries 91
Mean −0.01376
Std Dev 1.011

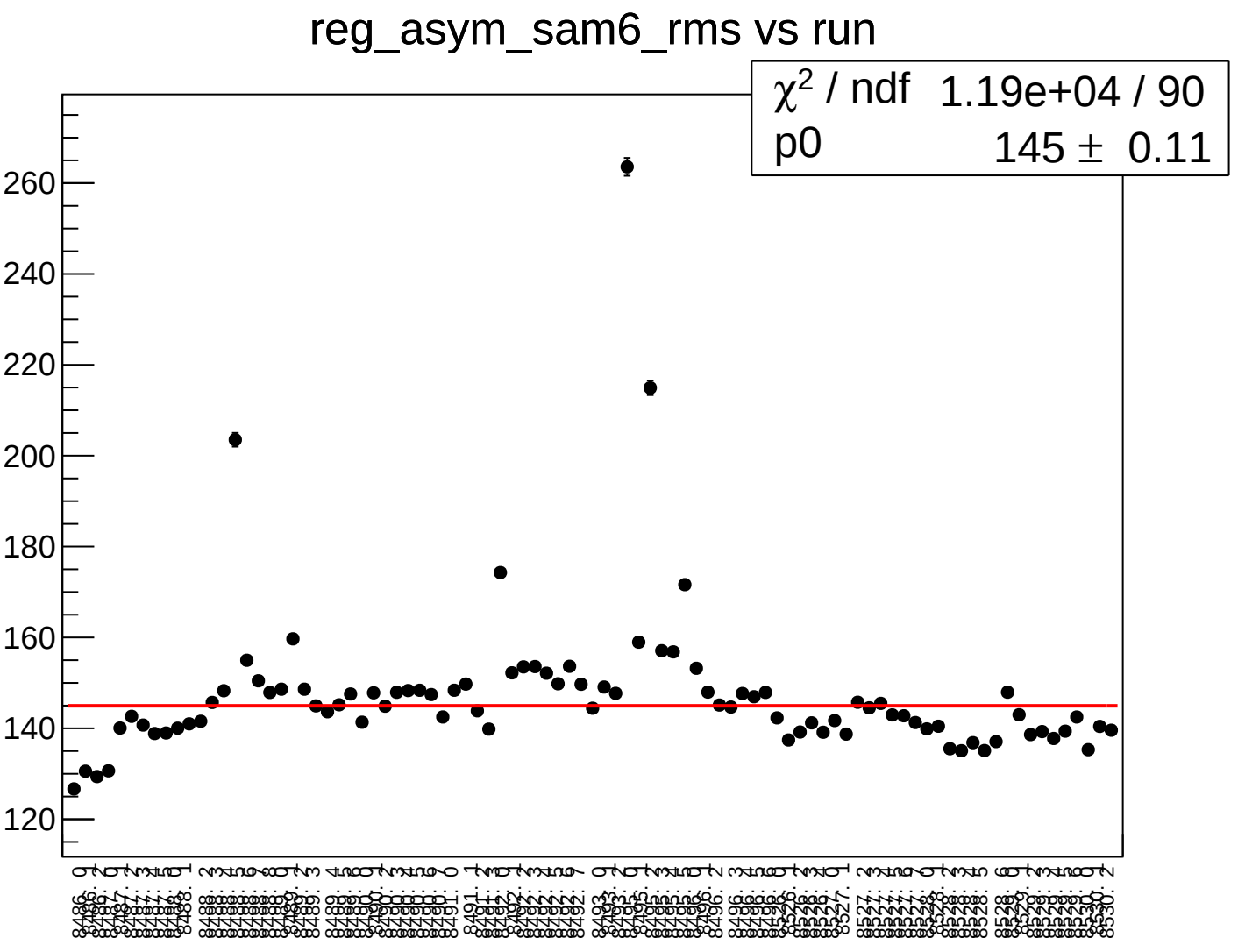

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.512e+04 / 90
p0 51.52 ± 0.03912
65
60
55
50
45
40

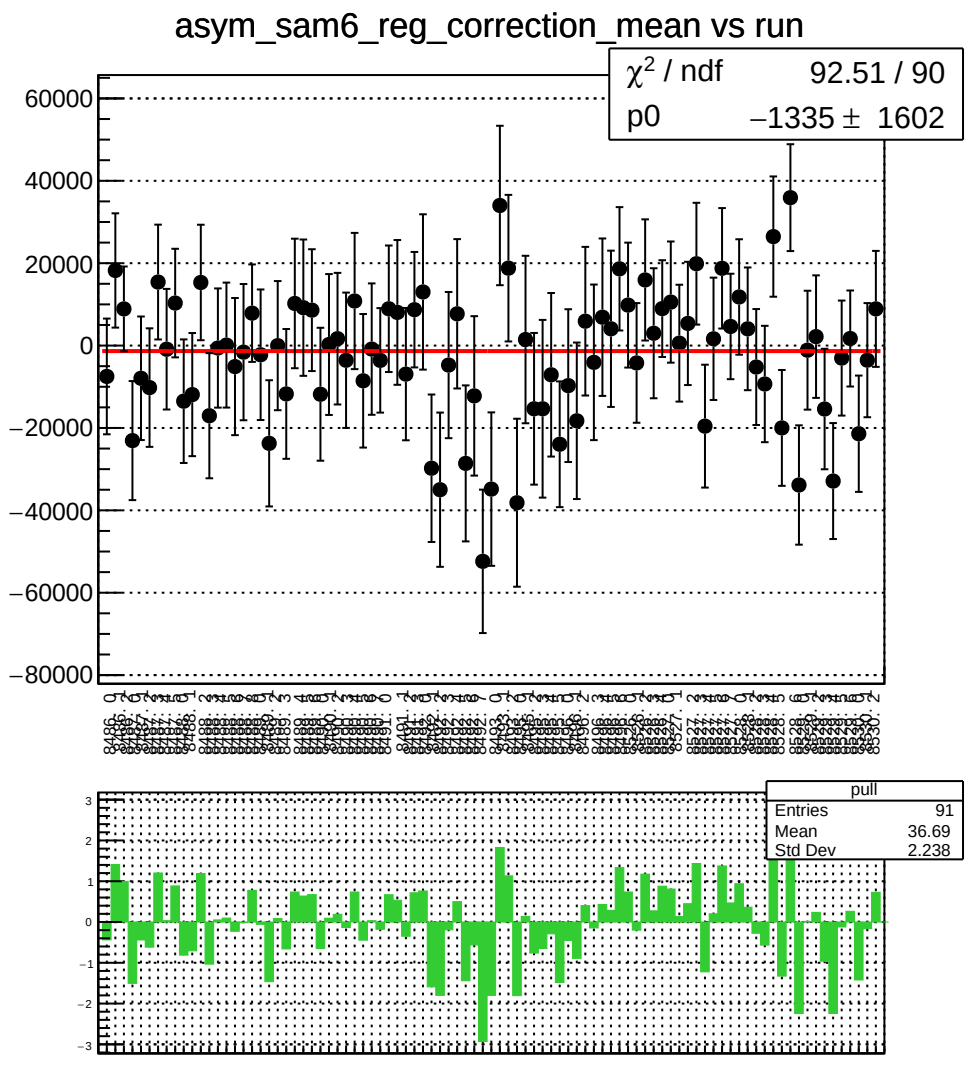

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.05 / 90
p0 −7.291e−15 ± 3.136e−14
pull
Entries 91
Mean 108.6
Std Dev 0
pull1D
Entries 91
Mean 0.05427
Std Dev 0.9766

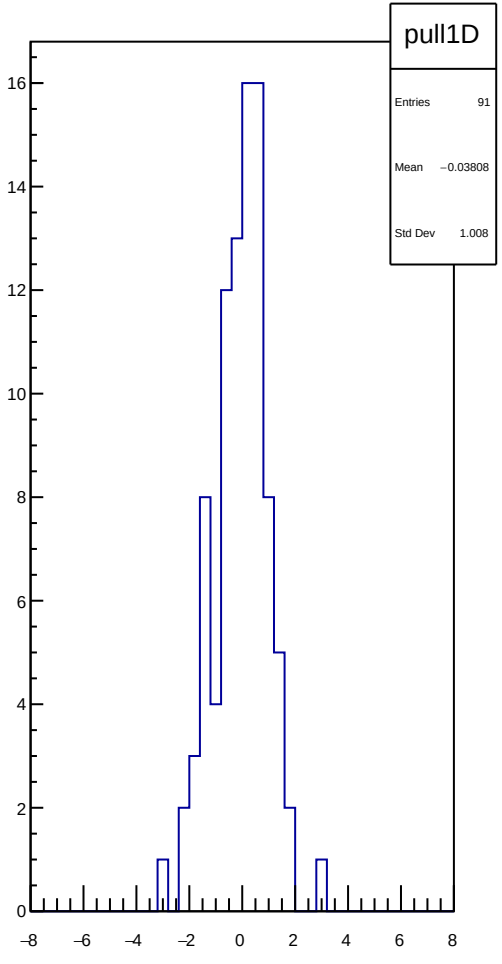

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.958e+05 / 90
p0 2.58e−11 ± 2.217e−14
0.12
0.1
0.08
0.06
0.04
0.02

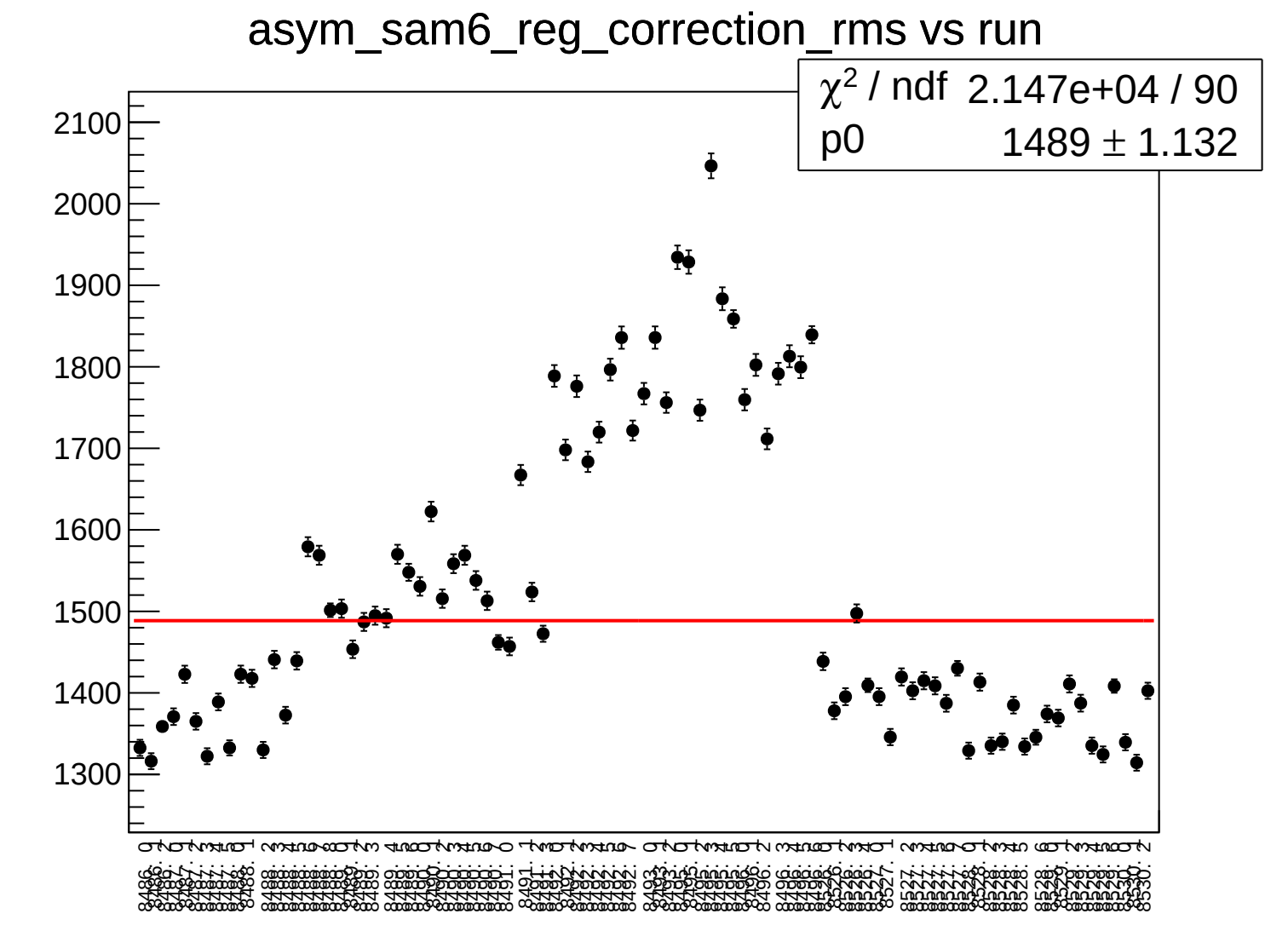

reg_asym_sam6_mean vs run
χ² / ndf 103.2 / 90
p0 281.2 ± 155.5
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean −209.2
Std Dev 0
2
1
0
−1
−2

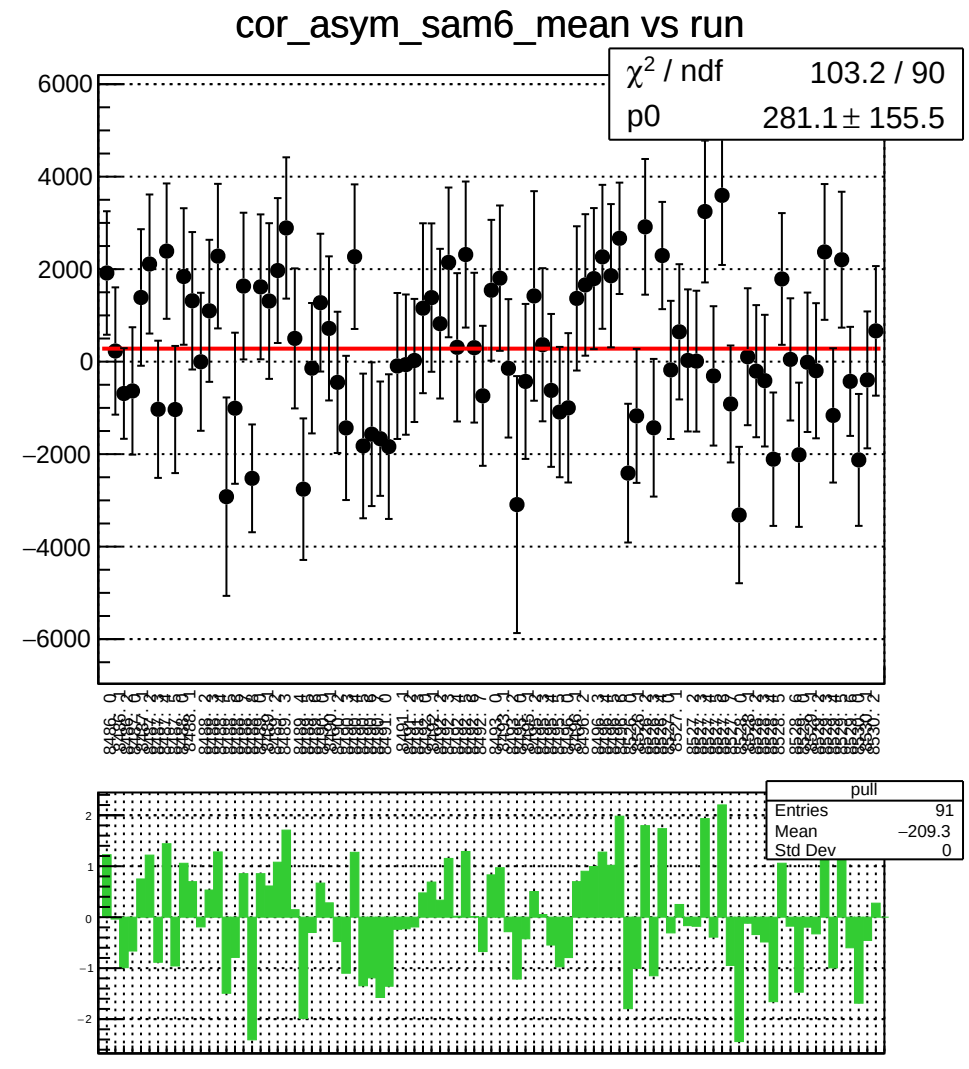

pull1D
Entries 91
Mean 0.007105
Std Dev 1.065
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

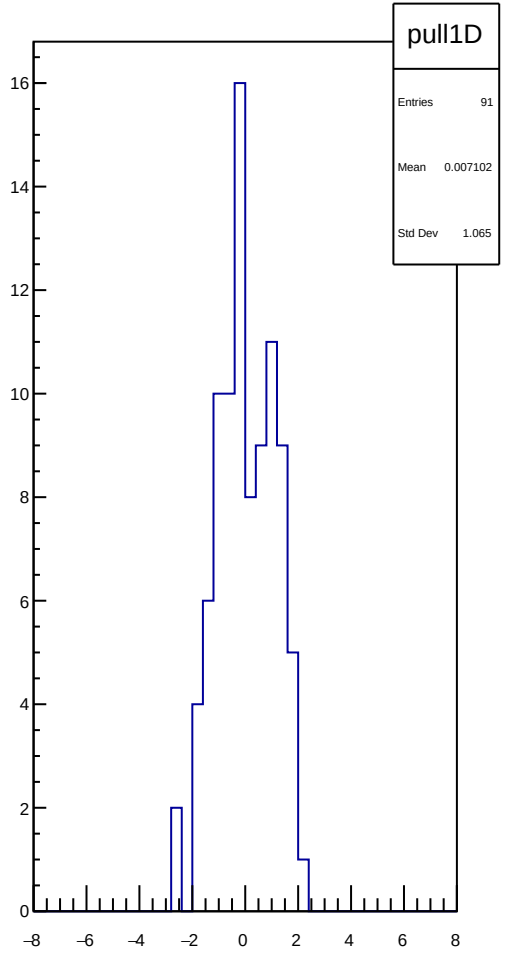

reg_asym_sam6_rms vs run
χ² / ndf 1.19e+04 / 90
p0 145 ± 0.11
260
240
220
200
180
160
140
120

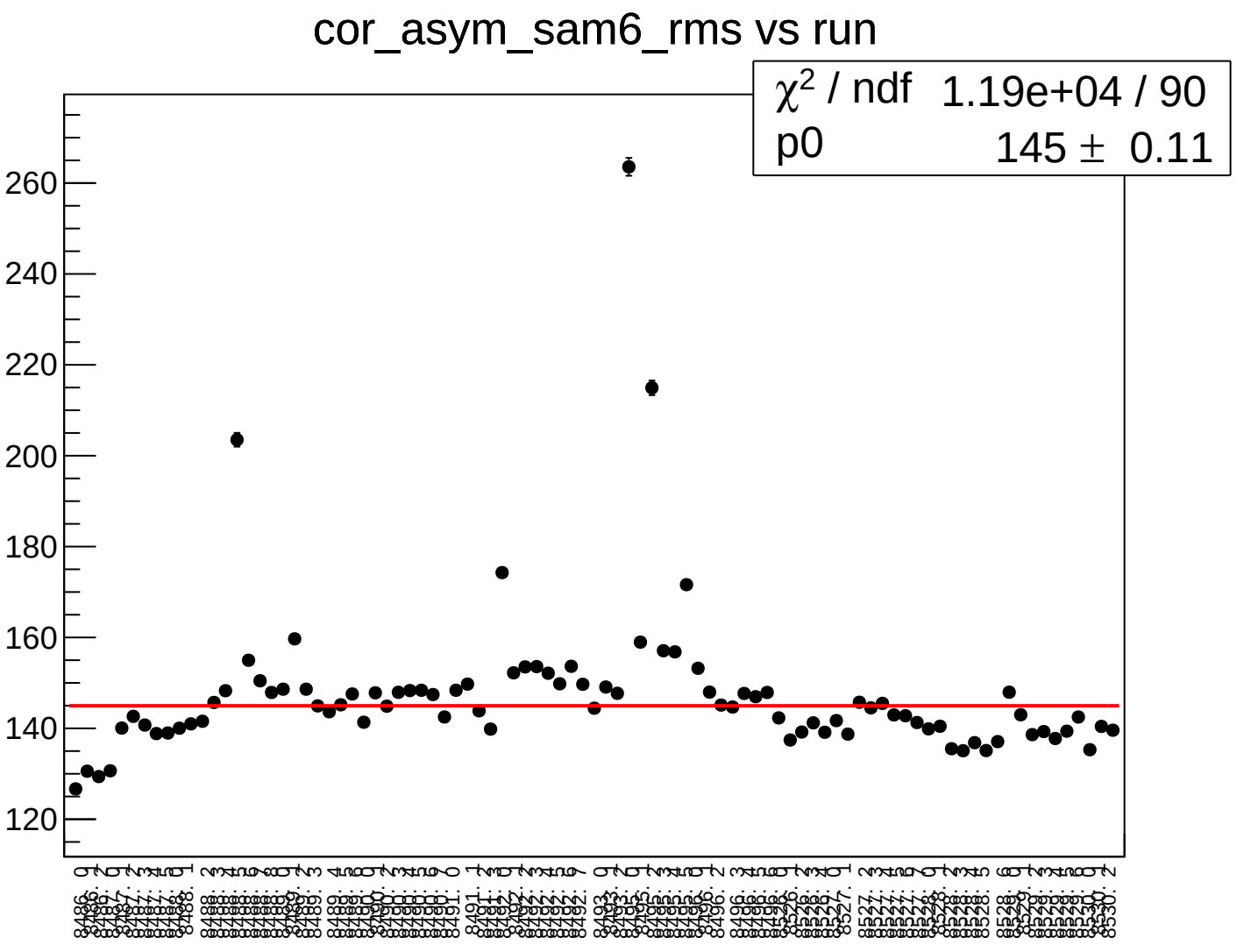

asym_sam6_reg_correction_mean vs run
χ² / ndf 92.51 / 90
p0 −1335 ± 1602
pull
Entries 91
Mean 36.69
Std Dev 2.238

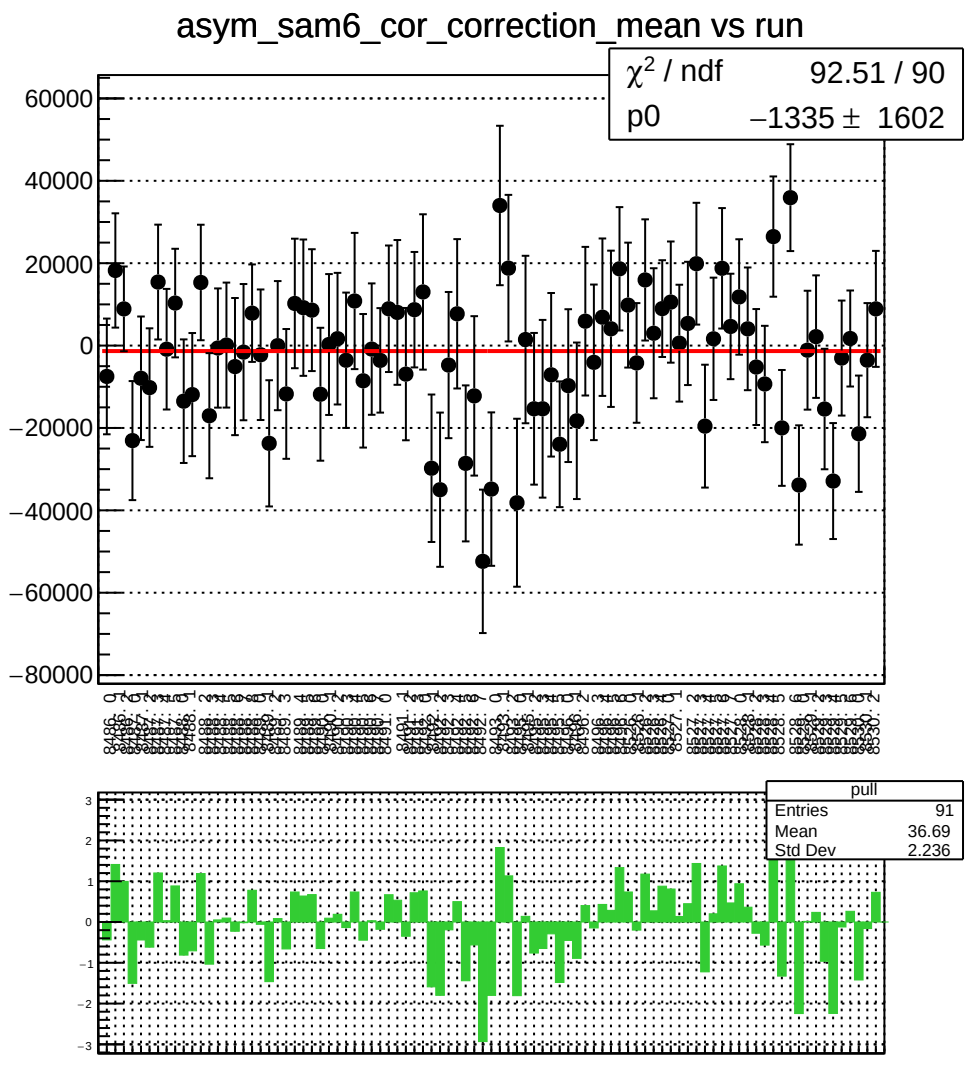

pull1D
Entries 91
Mean −0.03808
Std Dev 1.008

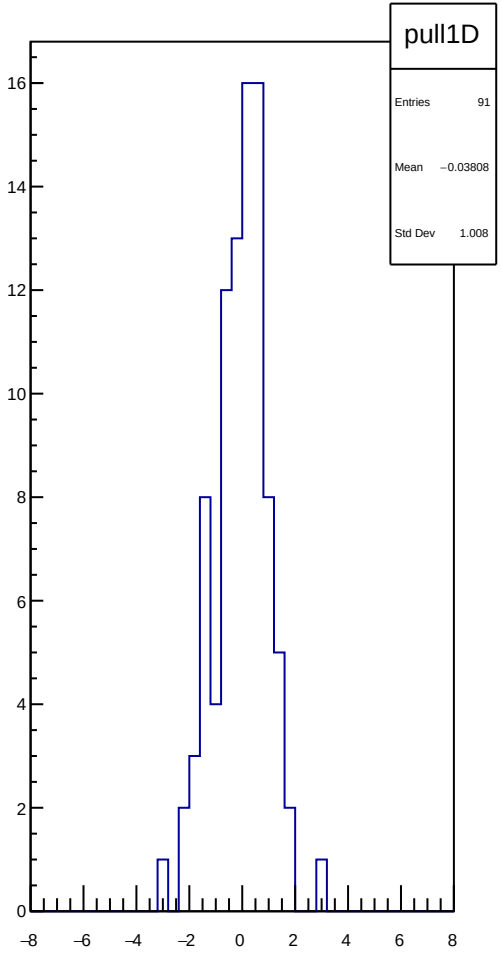

asym_sam6_reg_correction_rms vs run
χ² / ndf 2.147e+04 / 90
p0 1489 ± 1.132
2100
2000
1900
1800
1700
1600
1500
1400
1300


cor_asym_sam6_mean vs run
χ² / ndf 103.2 / 90
p0 281.1 ± 155.5
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean −209.3
Std Dev 0
2
1
0
−1
−2

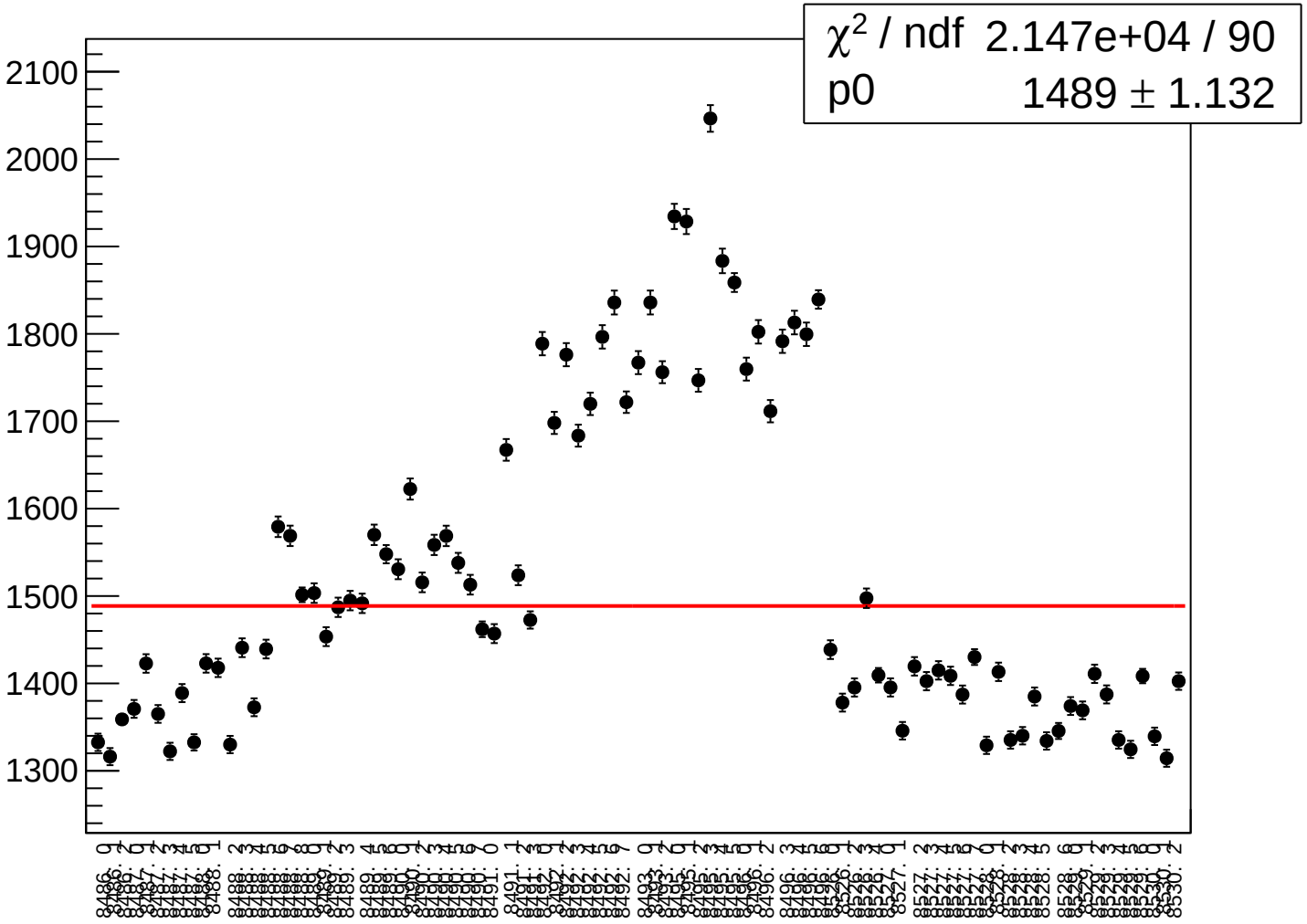

pull1D
Entries 91
Mean 0.007102
Std Dev 1.065
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

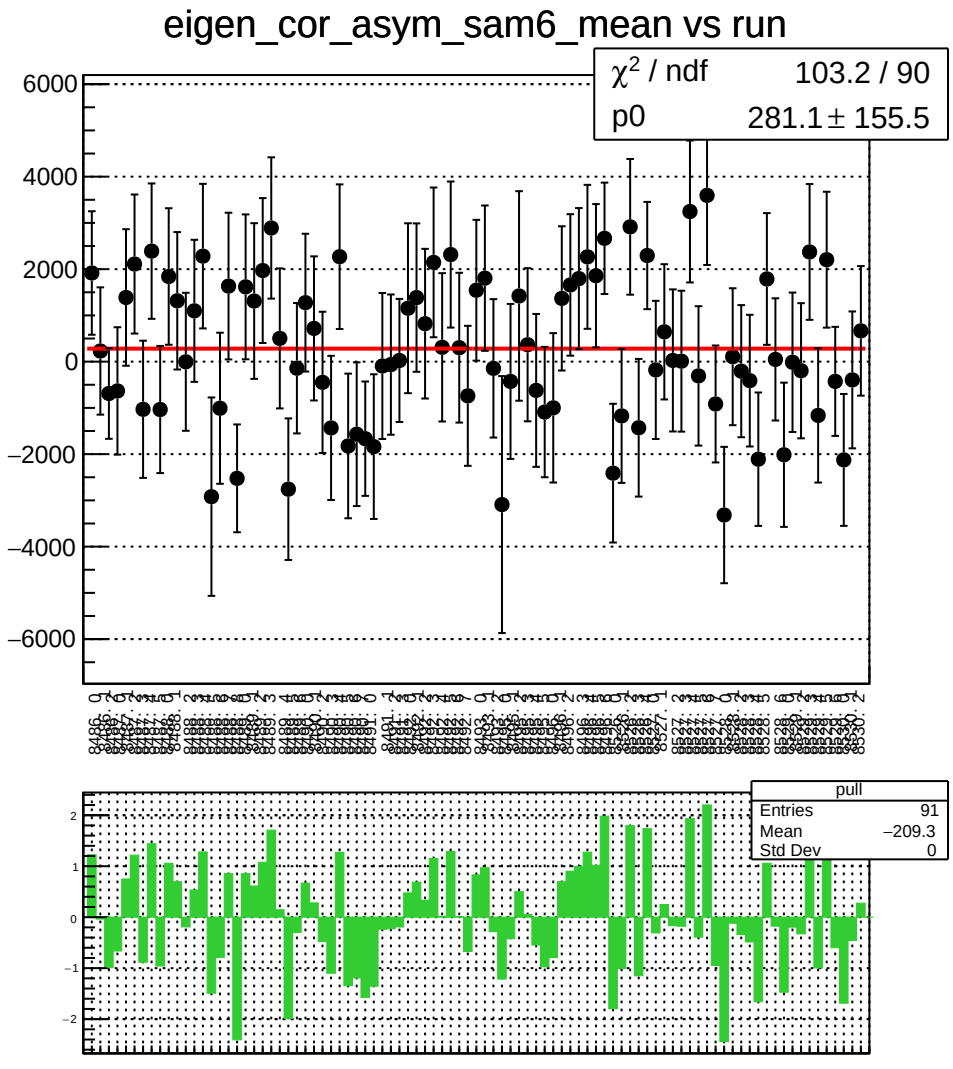

cor_asym_sam6_rms vs run
χ² / ndf 1.19e+04 / 90
p0 145 ± 0.11
260
240
220
200
180
160
140
120

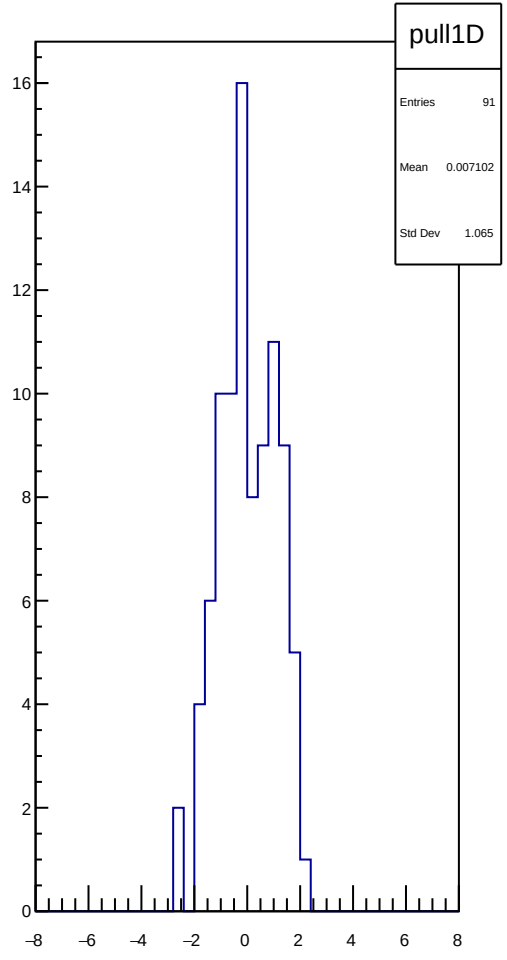

asym_sam6_cor_correction_mean vs run
χ² / ndf 92.51 / 90
p0 −1335 ± 1602
pull
Entries 91
Mean 36.69
Std Dev 2.236

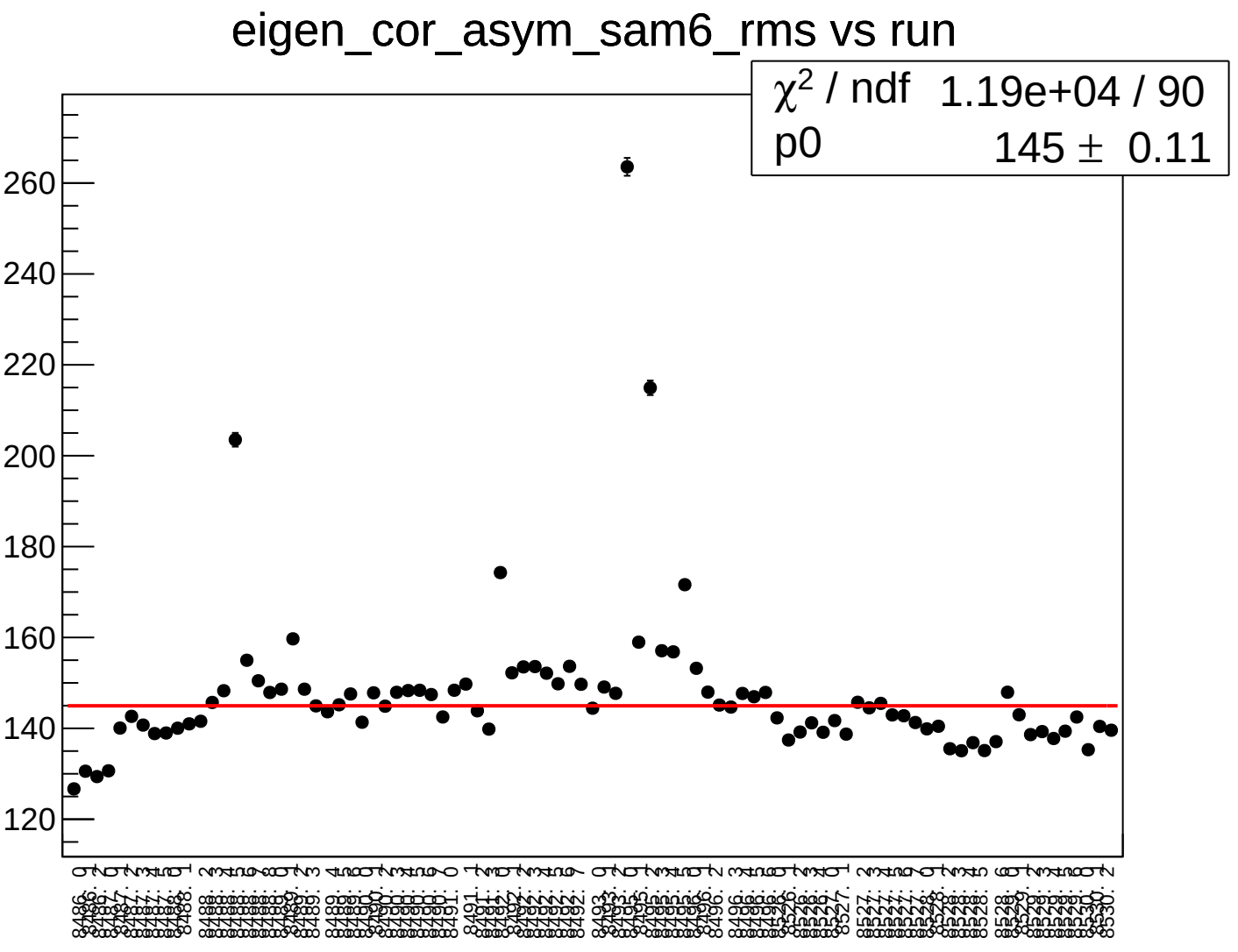

pull1D
Entries 91
Mean −0.03808
Std Dev 1.008

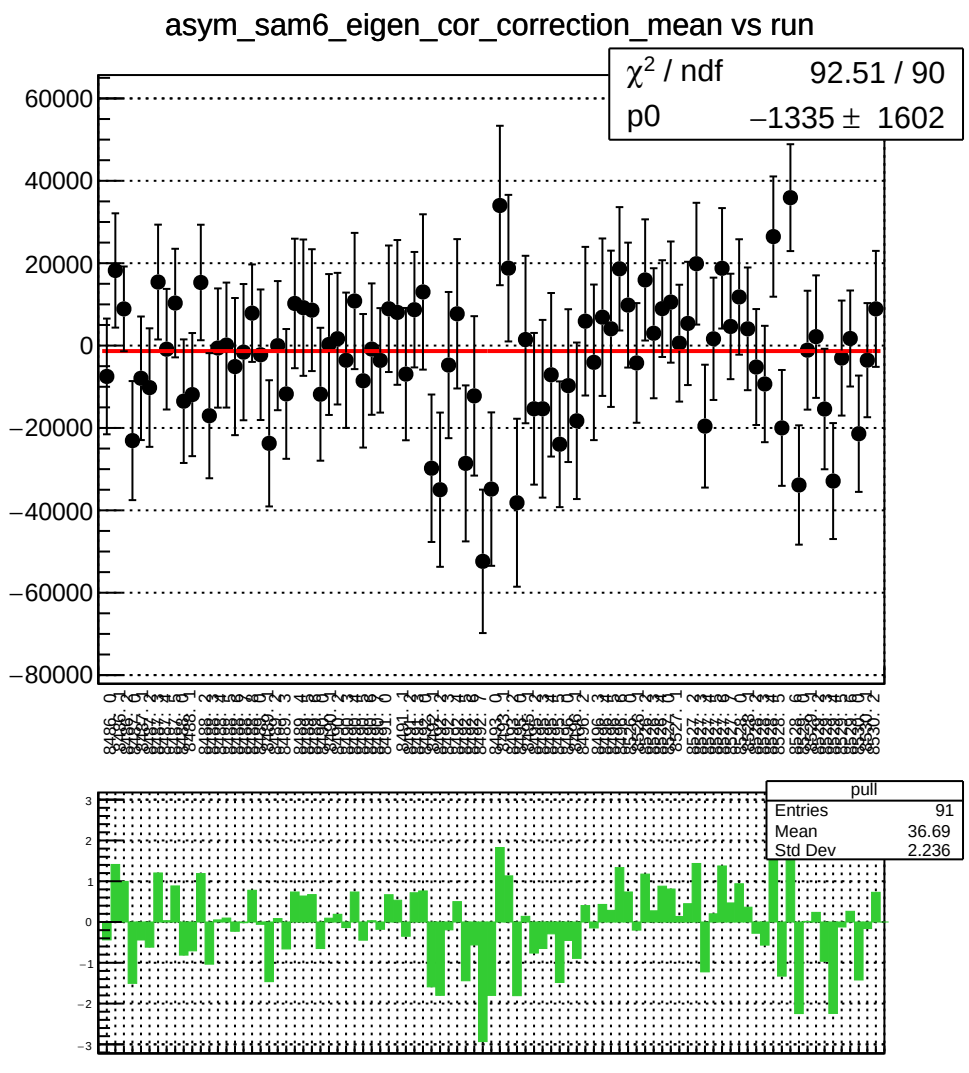
asym_sam6_cor_correction_rms vs run

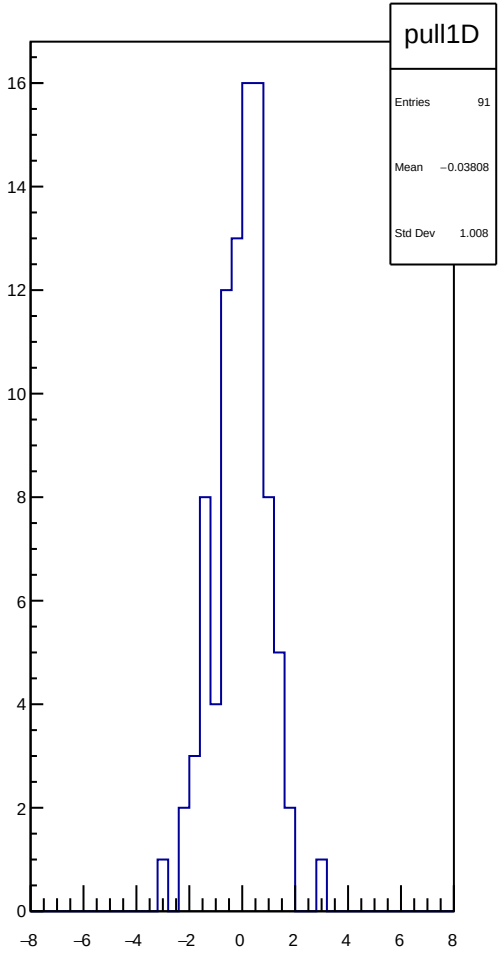


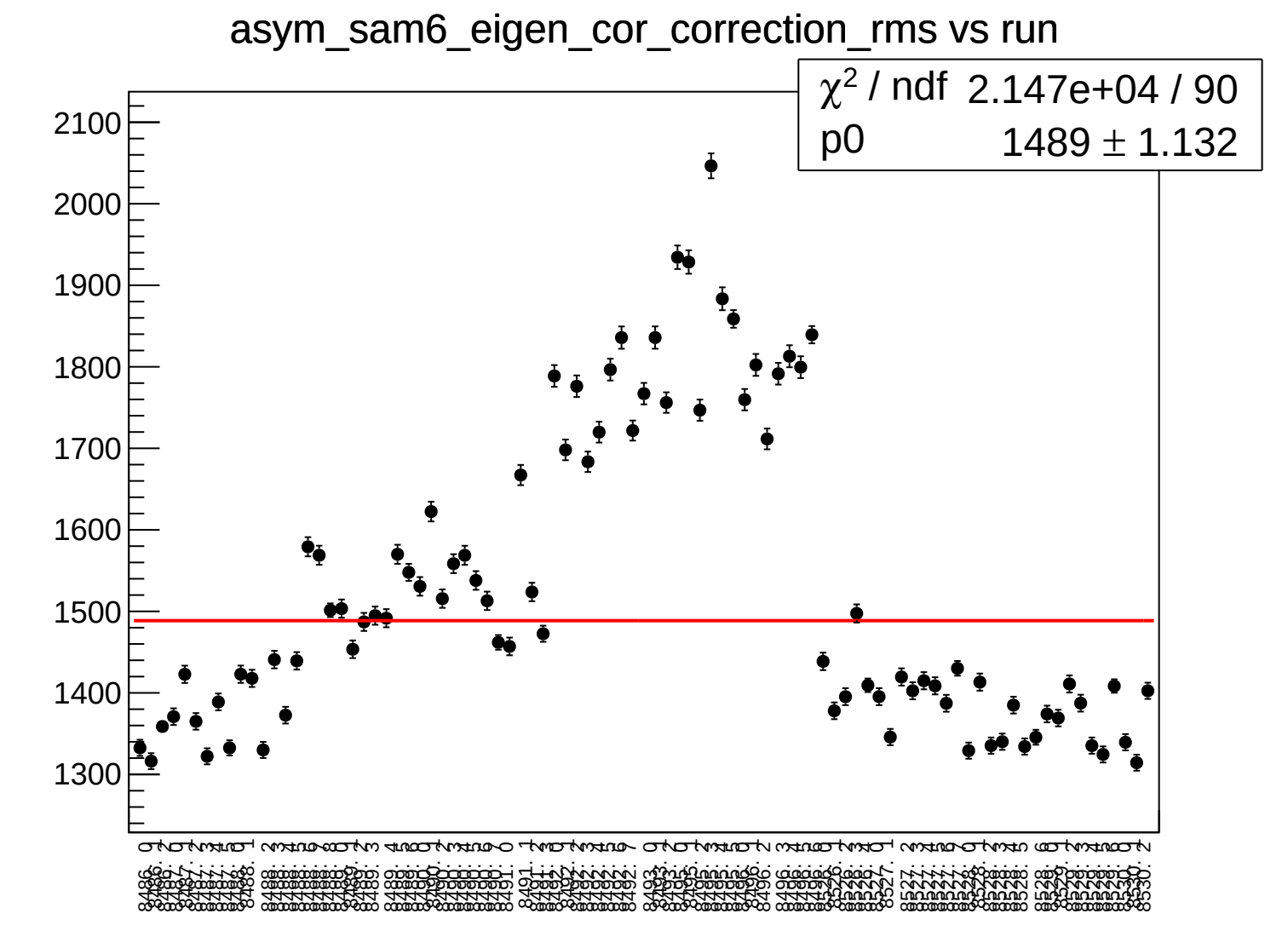

eigen_cor_asym_sam6_mean vs run
χ² / ndf 103.2 / 90
p0 281.1 ± 155.5
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean −209.3
Std Dev 0
2
1
0
−1
−2

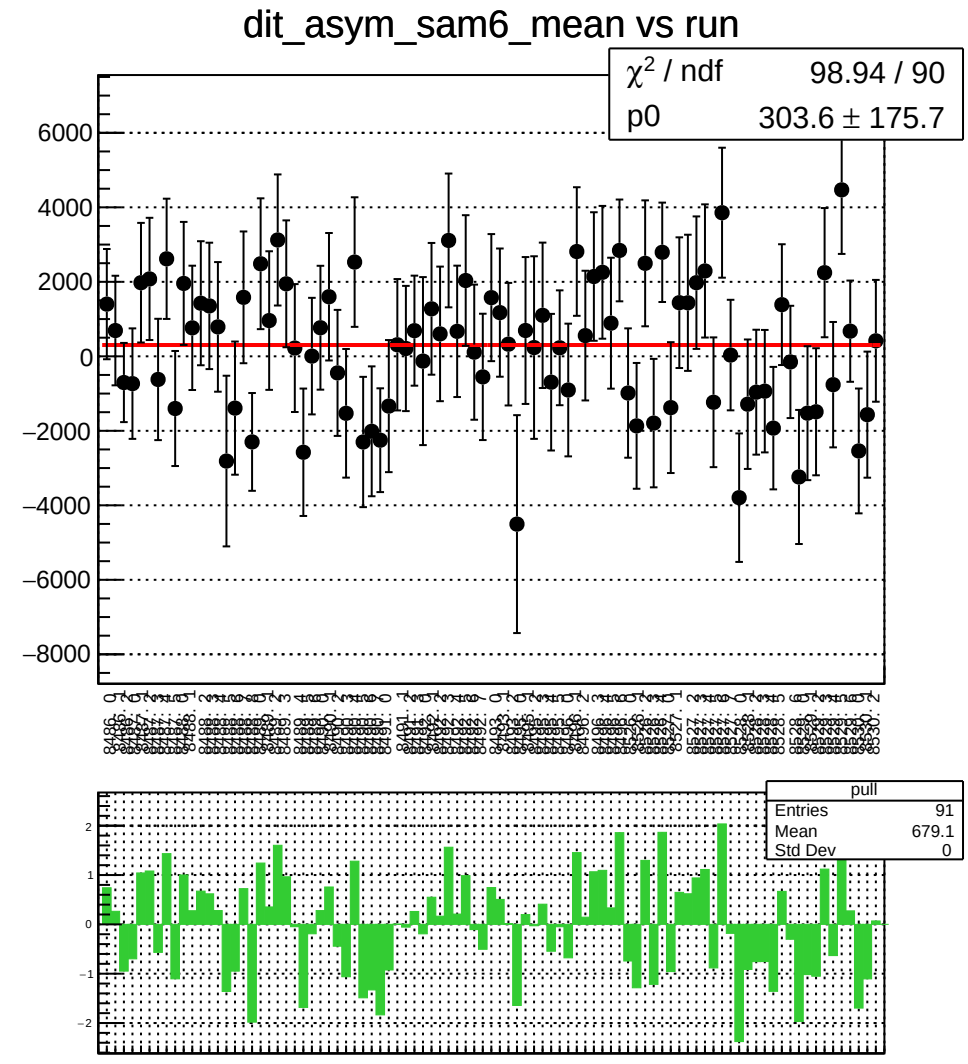

pull1D
Entries 91
Mean 0.007102
Std Dev 1.065
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

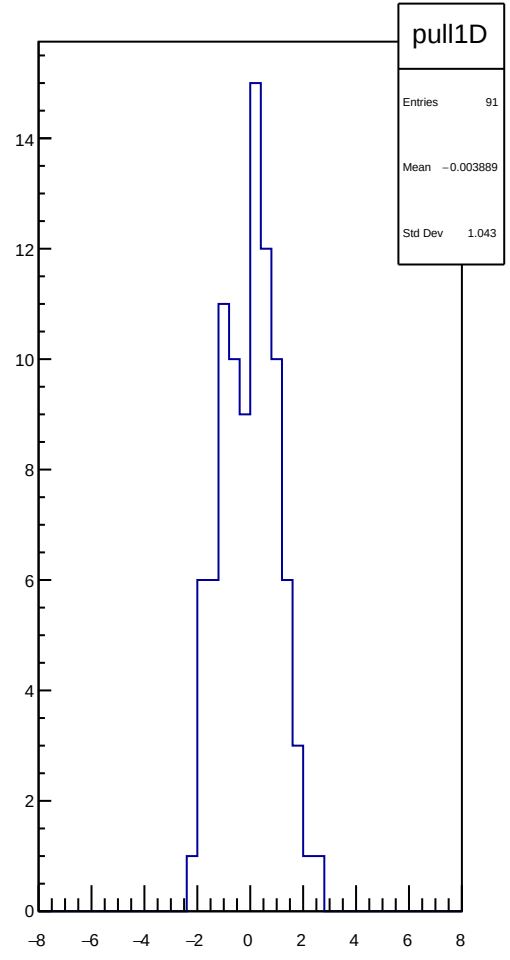

eigen_cor_asym_sam6_rms vs run
χ² / ndf 1.19e+04 / 90
p0 145 ± 0.11
260
240
220
200
180
160
140
120

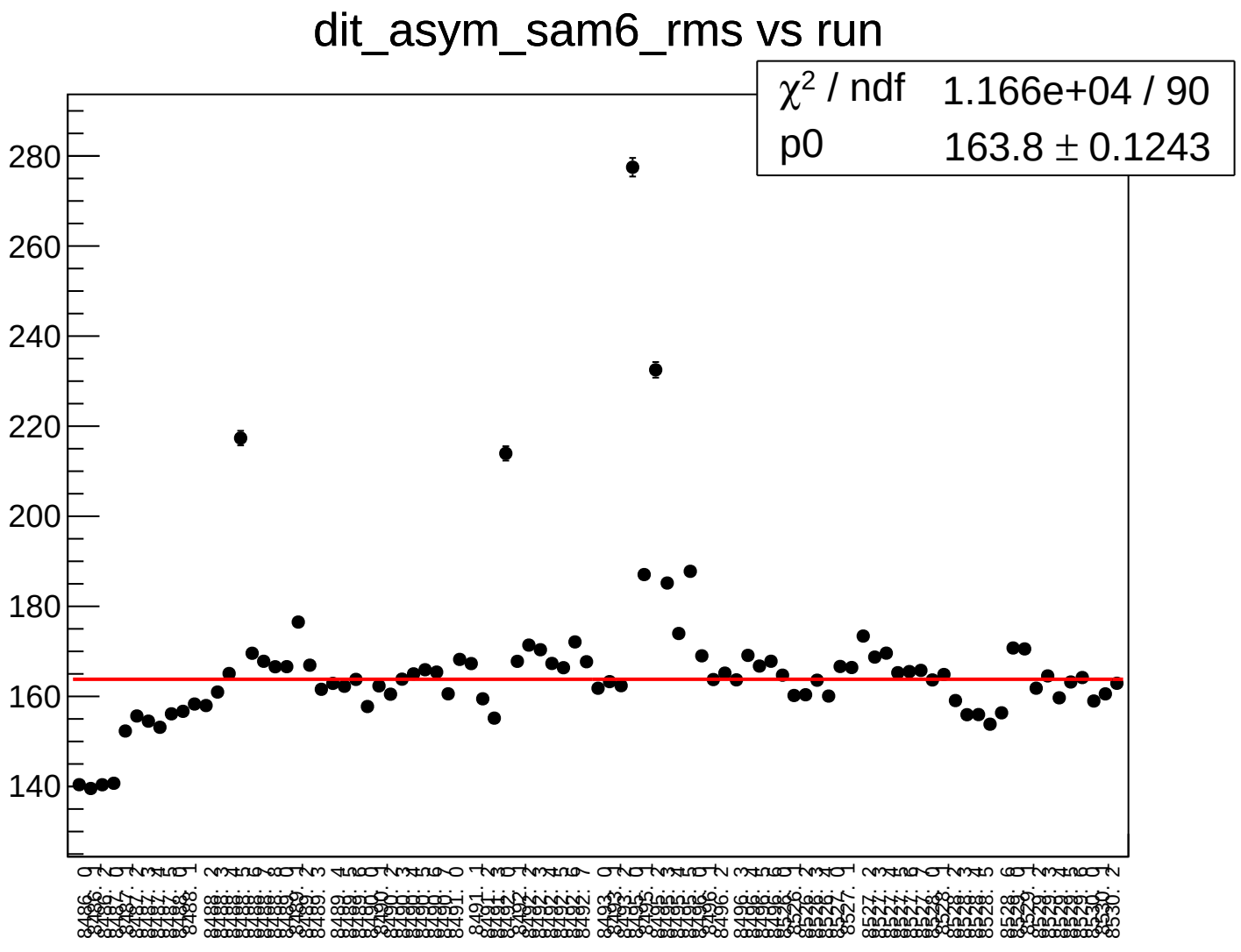

asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 92.51 / 90
p0 −1335 ± 1602
pull
Entries 91
Mean 36.69
Std Dev 2.236

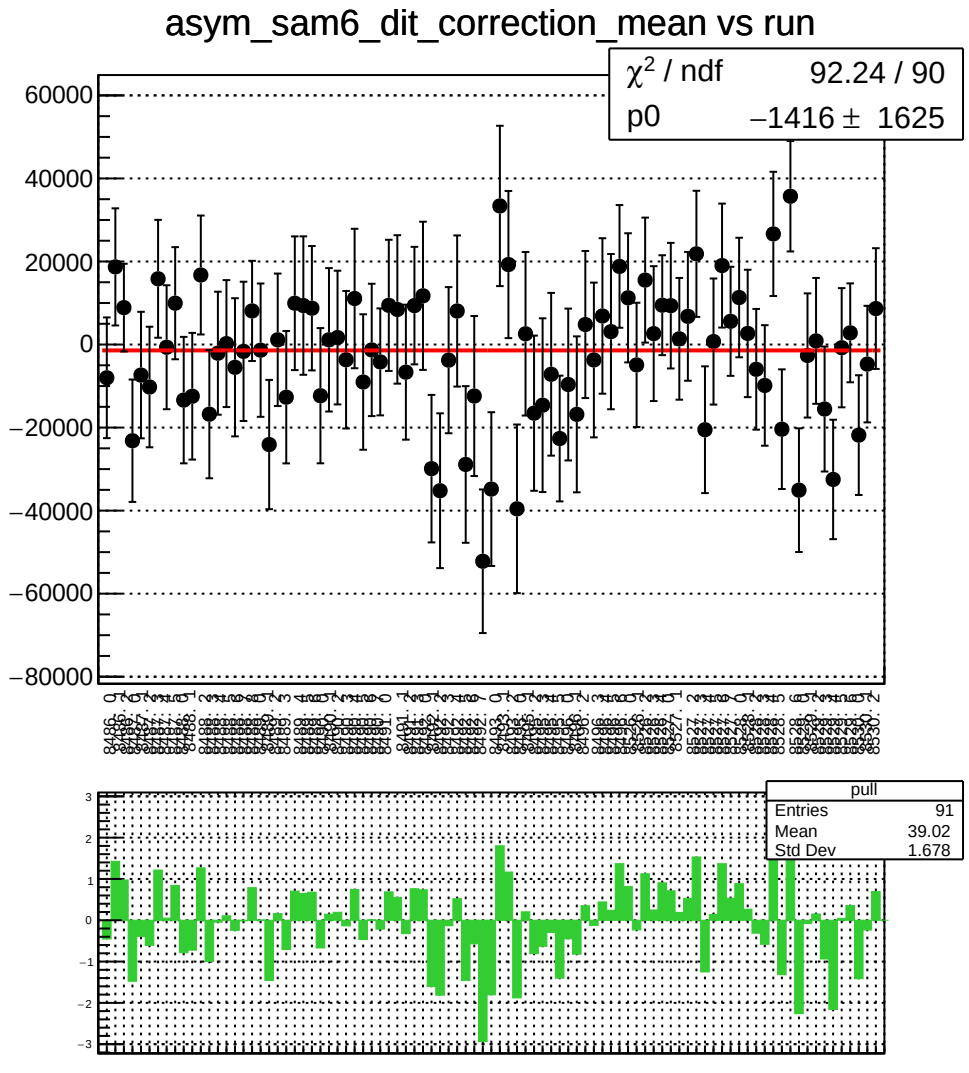

pull1D
Entries 91
Mean −0.03808
Std Dev 1.008

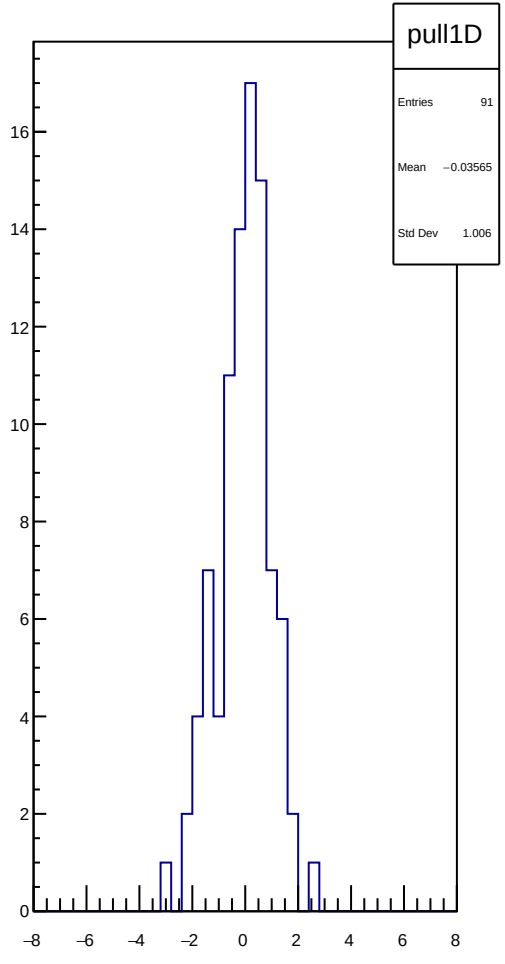

asym_sam6_eigen_cor_correction_rms vs run
χ² / ndf 2.147e+04 / 90
p0 1489 ± 1.132
2100
2000
1900
1800
1700
1600
1500
1400
1300

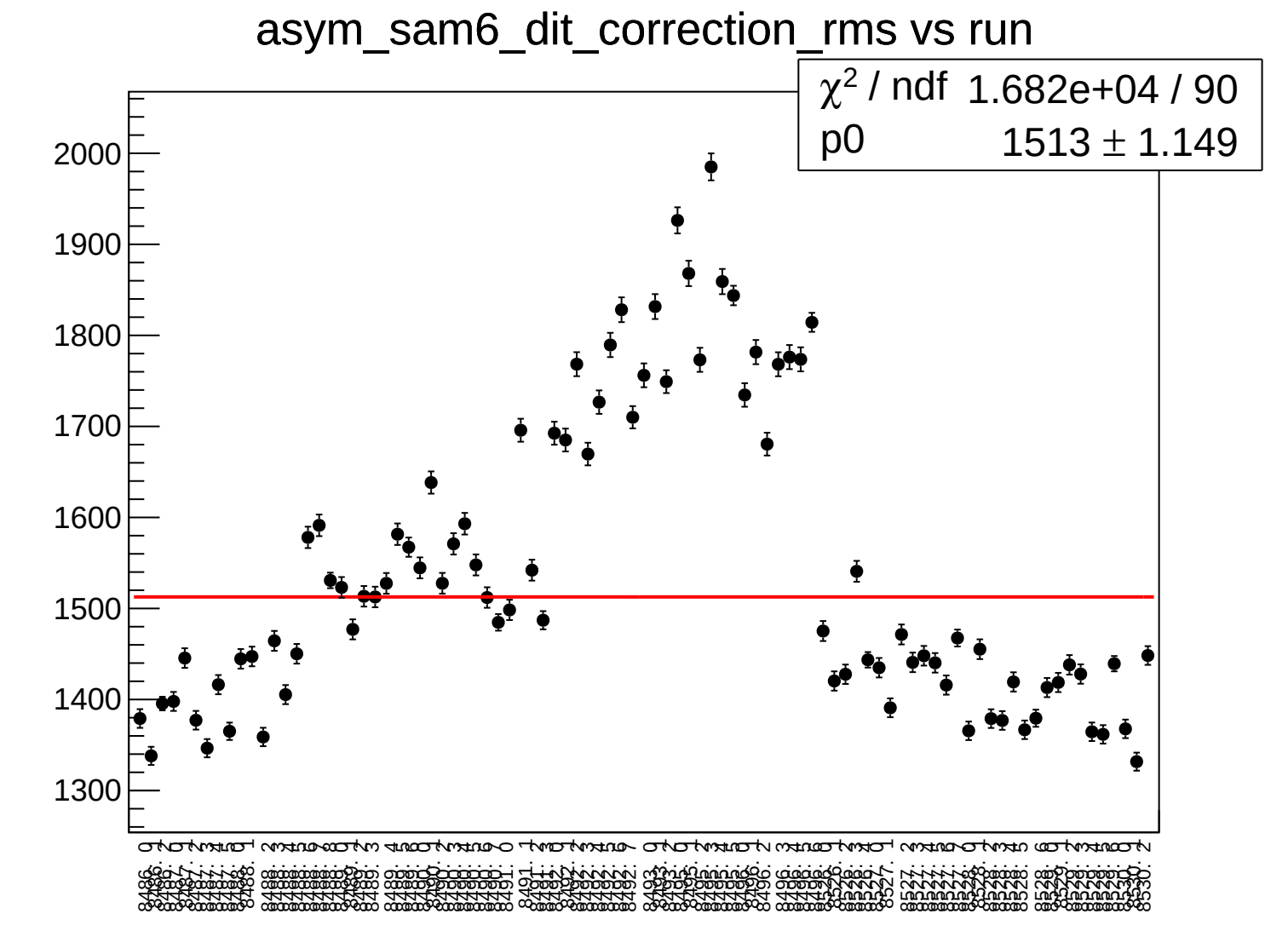

dit_asym_sam6_mean vs run
χ² / ndf 98.94 / 90
p0 303.6 ± 175.7
pull
Entries 91
Mean 679.1
Std Dev 0

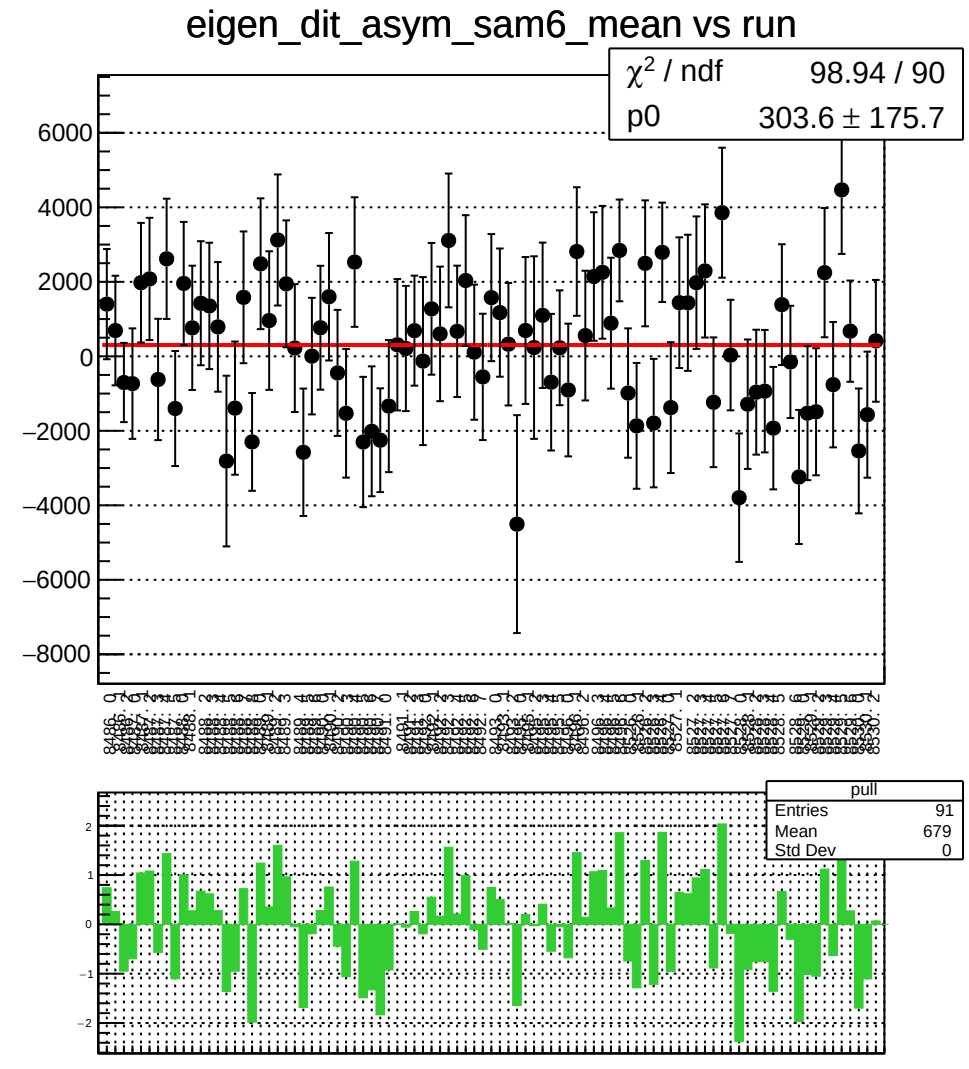

pull1D
Entries 91
Mean −0.003889
Std Dev 1.043

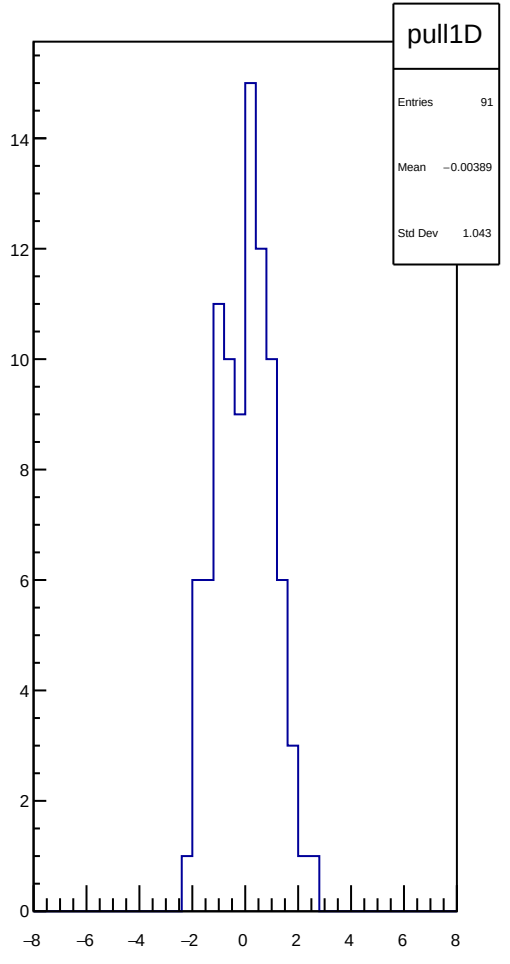

dit_asym_sam6_rms vs run
χ^2 / ndf 1.166e+04 / 90
p0 163.8 ± 0.1243
280
260
240
220
200
180
160
140

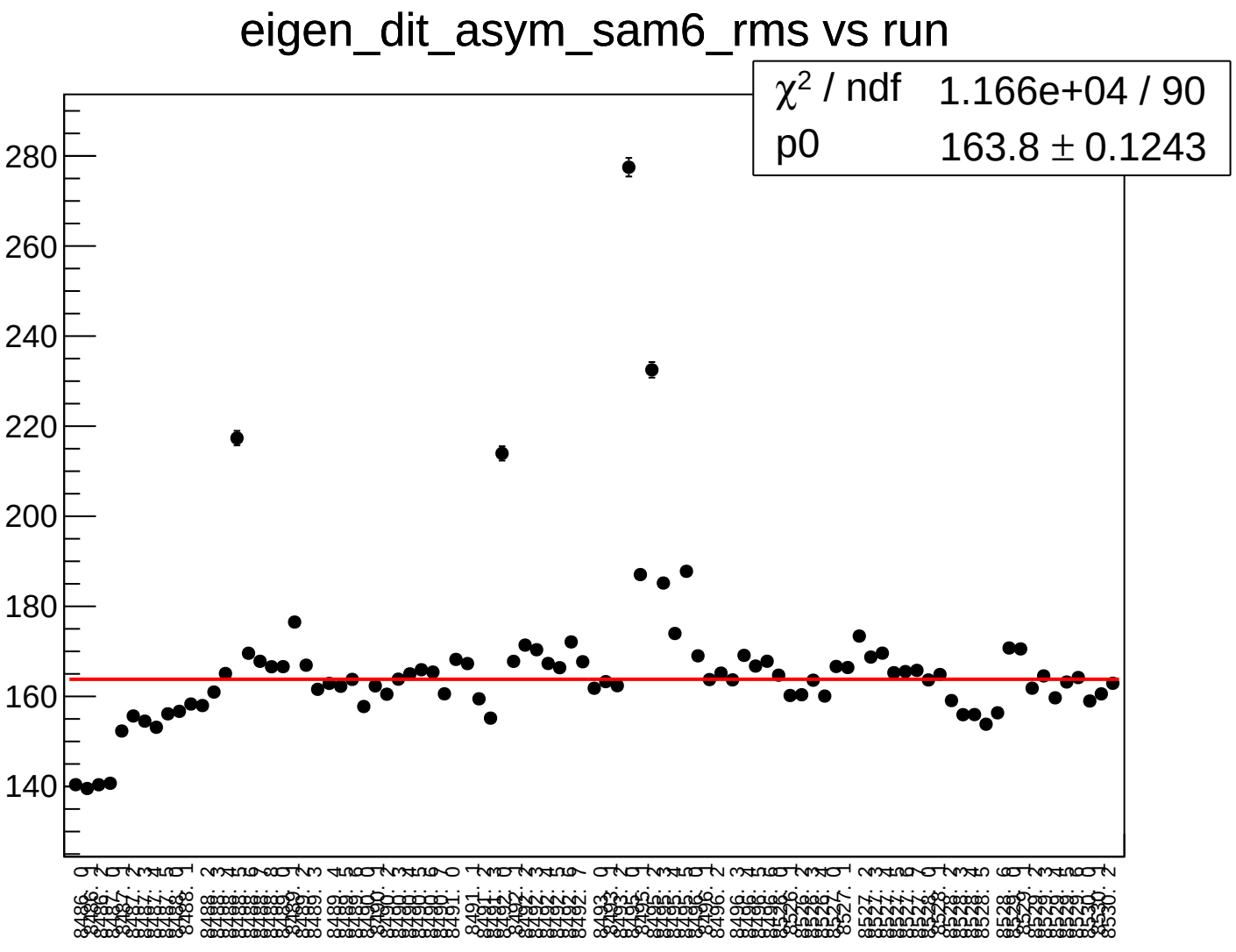

asym_sam6_dit_correction_mean vs run
χ² / ndf 92.24 / 90
p0 −1416 ± 1625
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean 39.02
Std Dev 1.678
3
2
1
0
−1
−2
−3

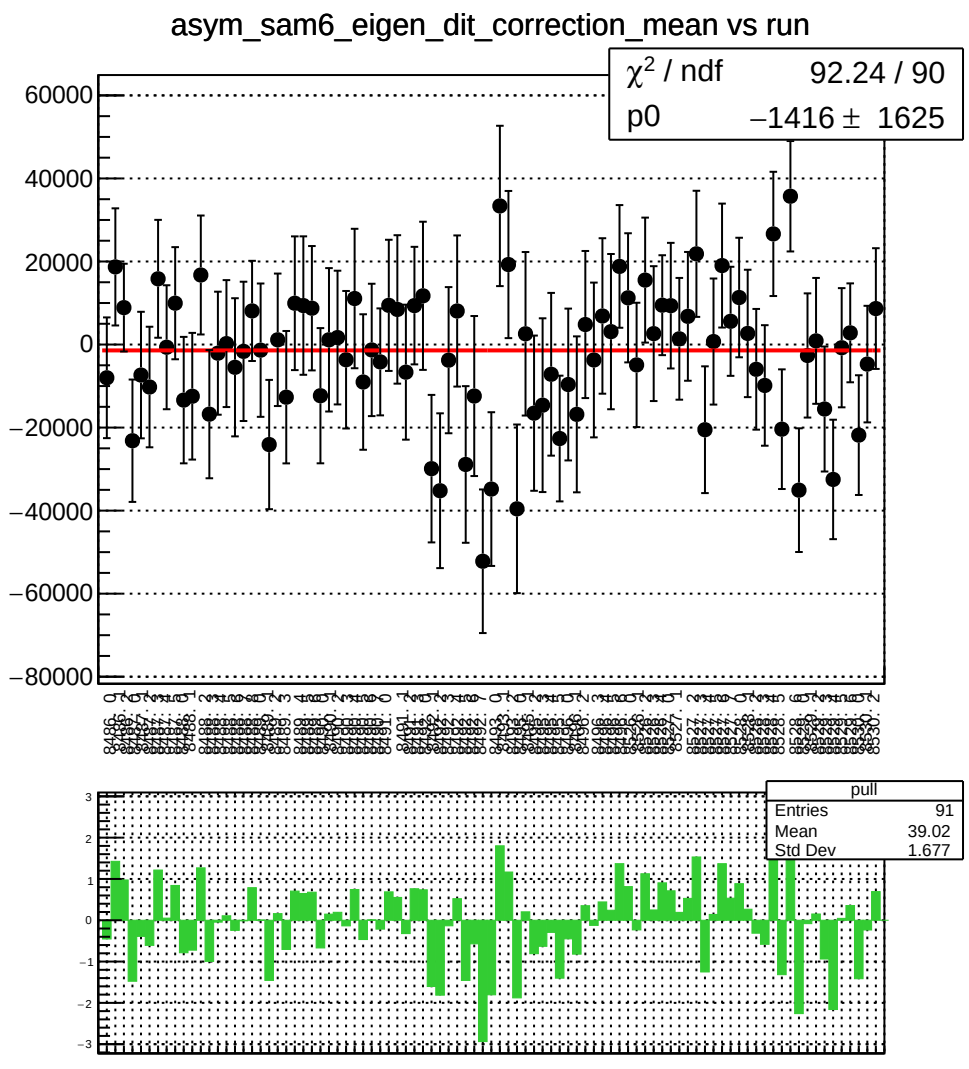

pull1D
Entries 91
Mean −0.03565
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

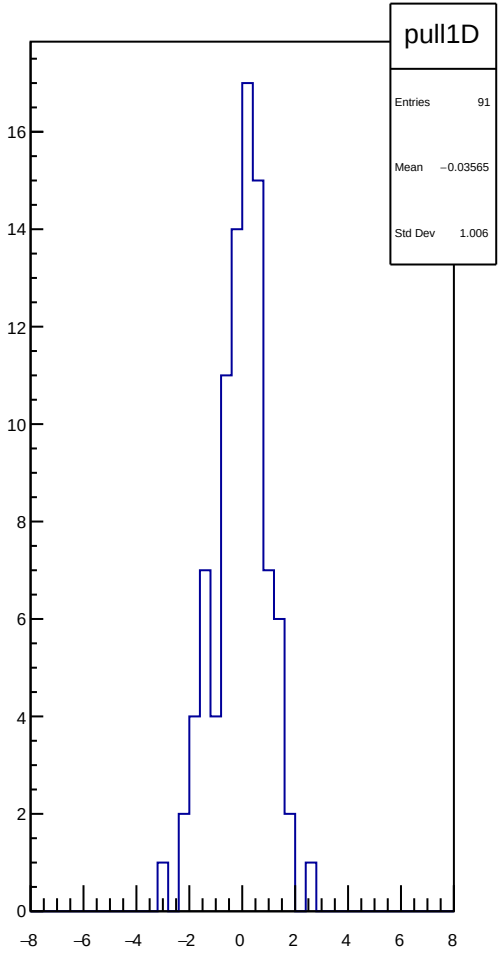

asym_sam6_dit_correction_rms vs run
χ² / ndf 1.682e+04 / 90
p0 1513 ± 1.149
2000
1900
1800
1700
1600
1500
1400
1300

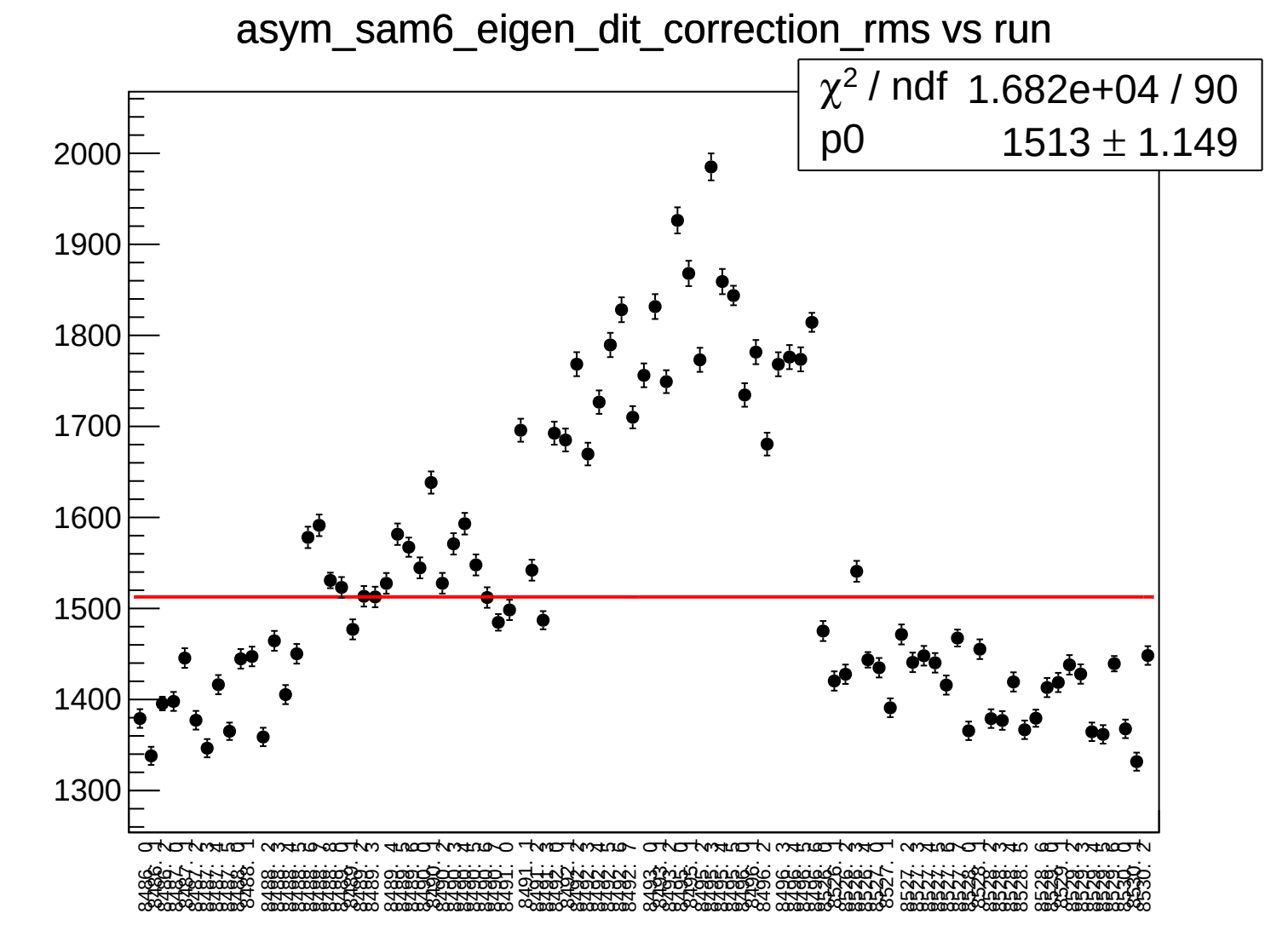

eigen_dit_asym_sam6_mean vs run
χ² / ndf 98.94 / 90
p0 303.6 ± 175.7
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 91
Mean 679
Std Dev 0
2
1
0
−1
−2

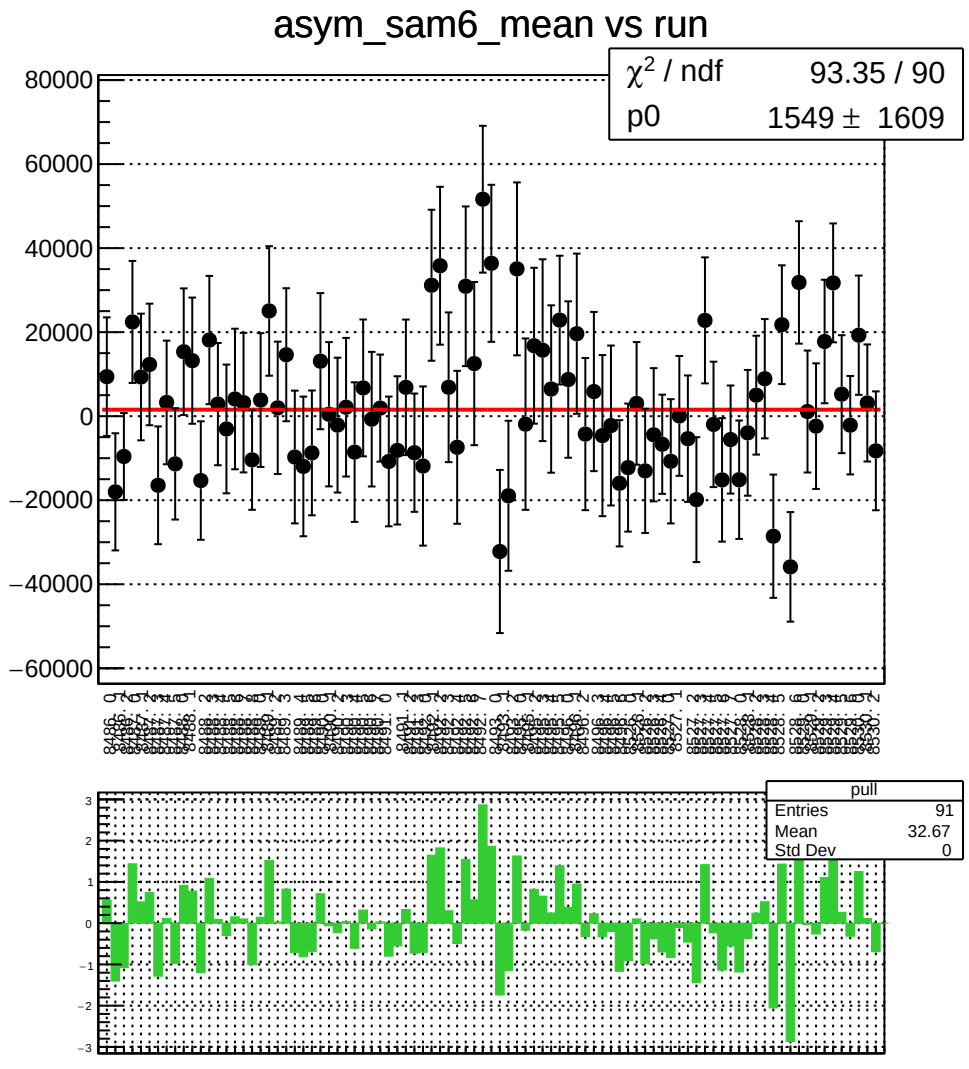

pull1D
Entries 91
Mean −0.00389
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

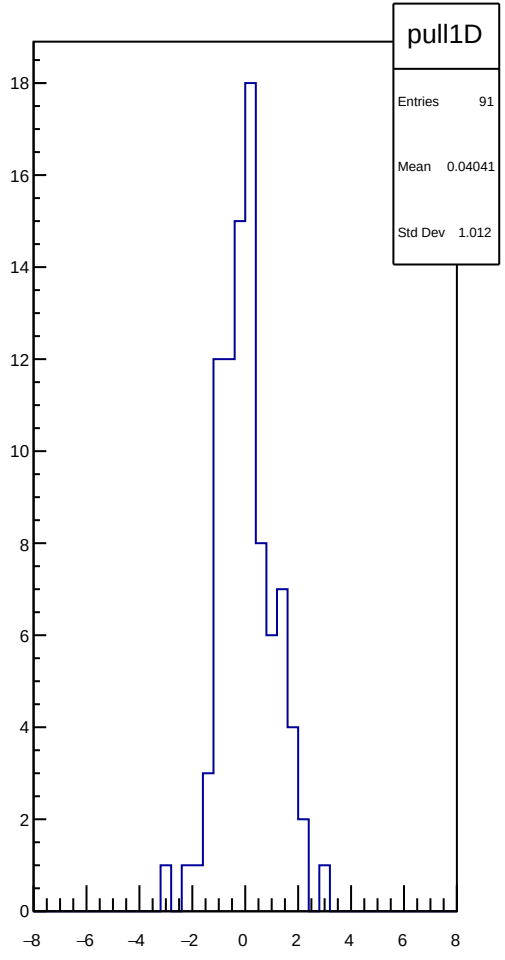

eigen_dit_asym_sam6_rms vs run
χ² / ndf 1.166e+04 / 90
p0 163.8 ± 0.1243
280
260
240
220
200
180
160
140

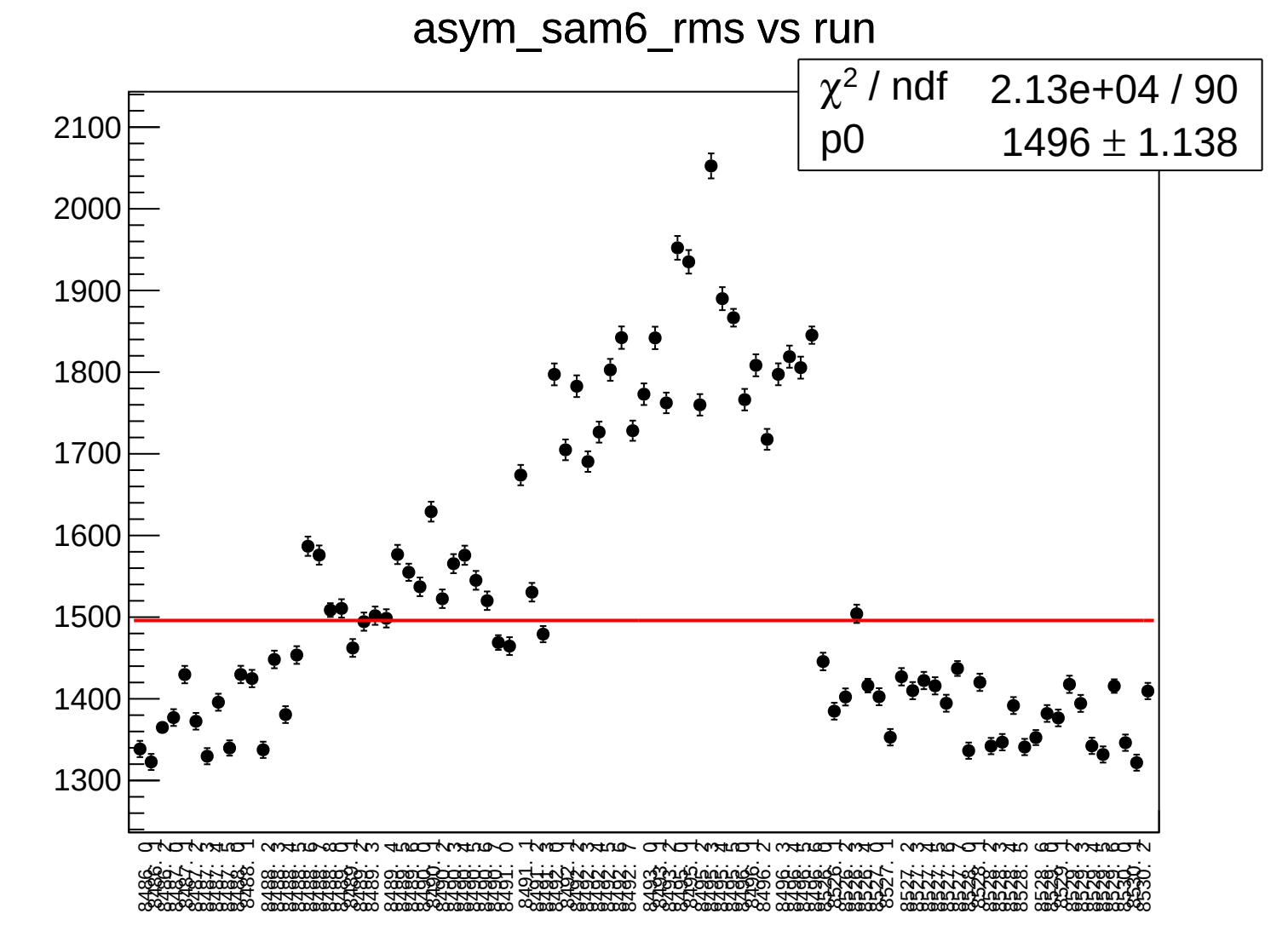

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 92.24 / 90
p0 −1416 ± 1625
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean 39.02
Std Dev 1.677
3
2
1
0
−1
−2
−3

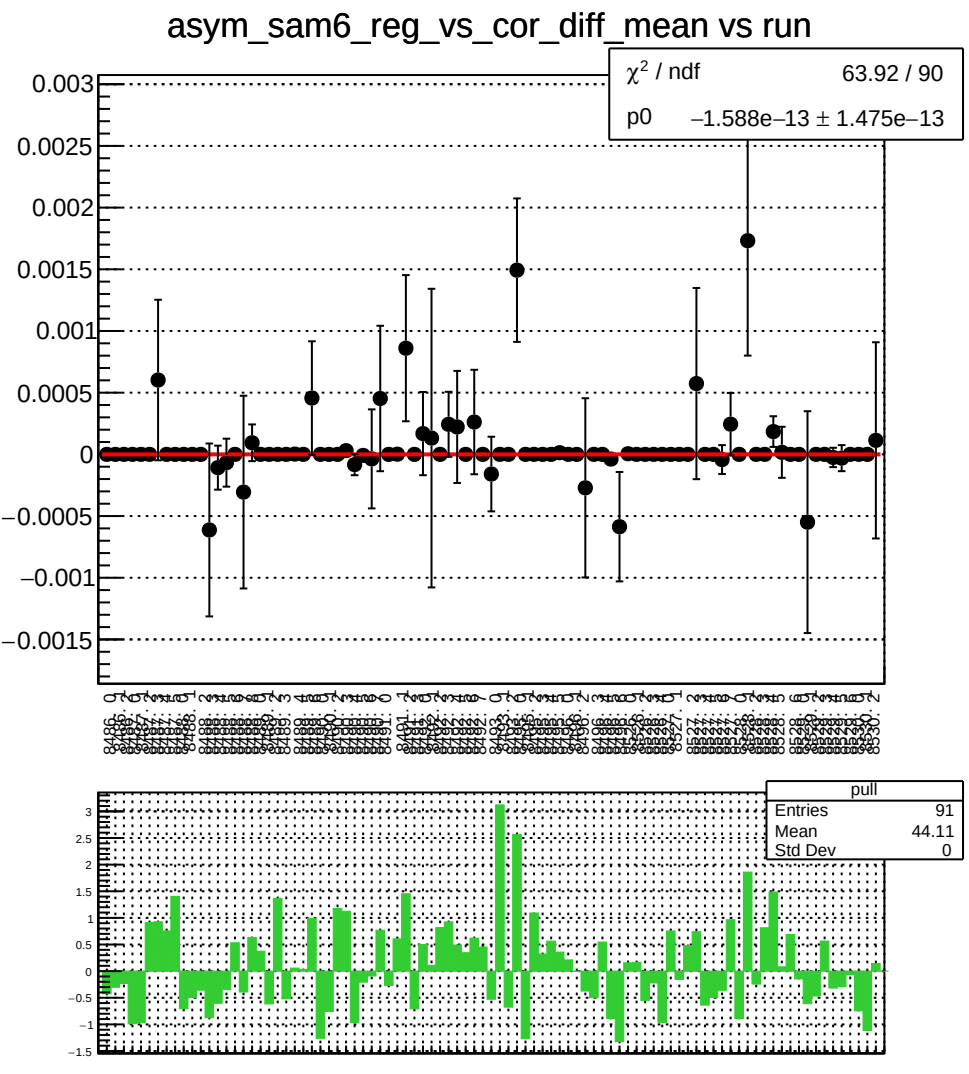

pull1D
Entries 91
Mean −0.03565
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

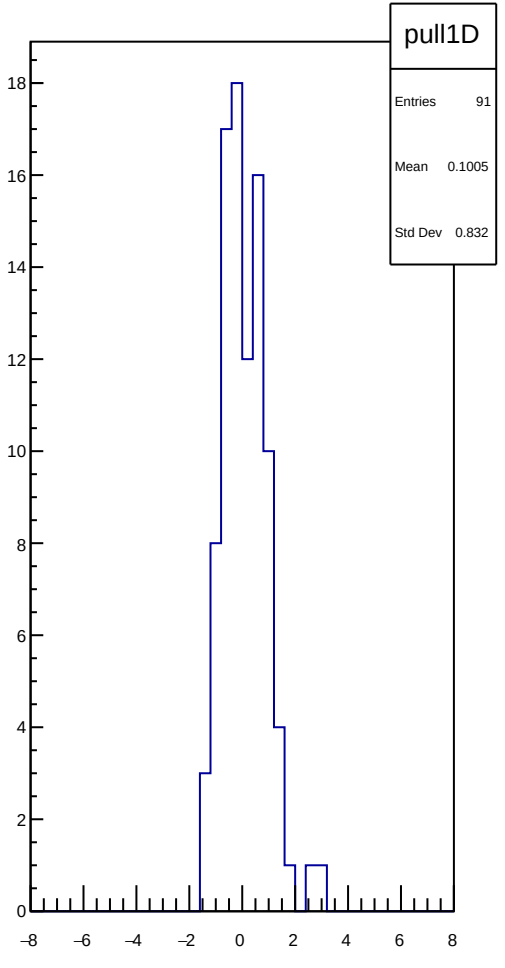

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 1.682e+04 / 90
p0 1513 ± 1.149
2000
1900
1800
1700
1600
1500
1400
1300

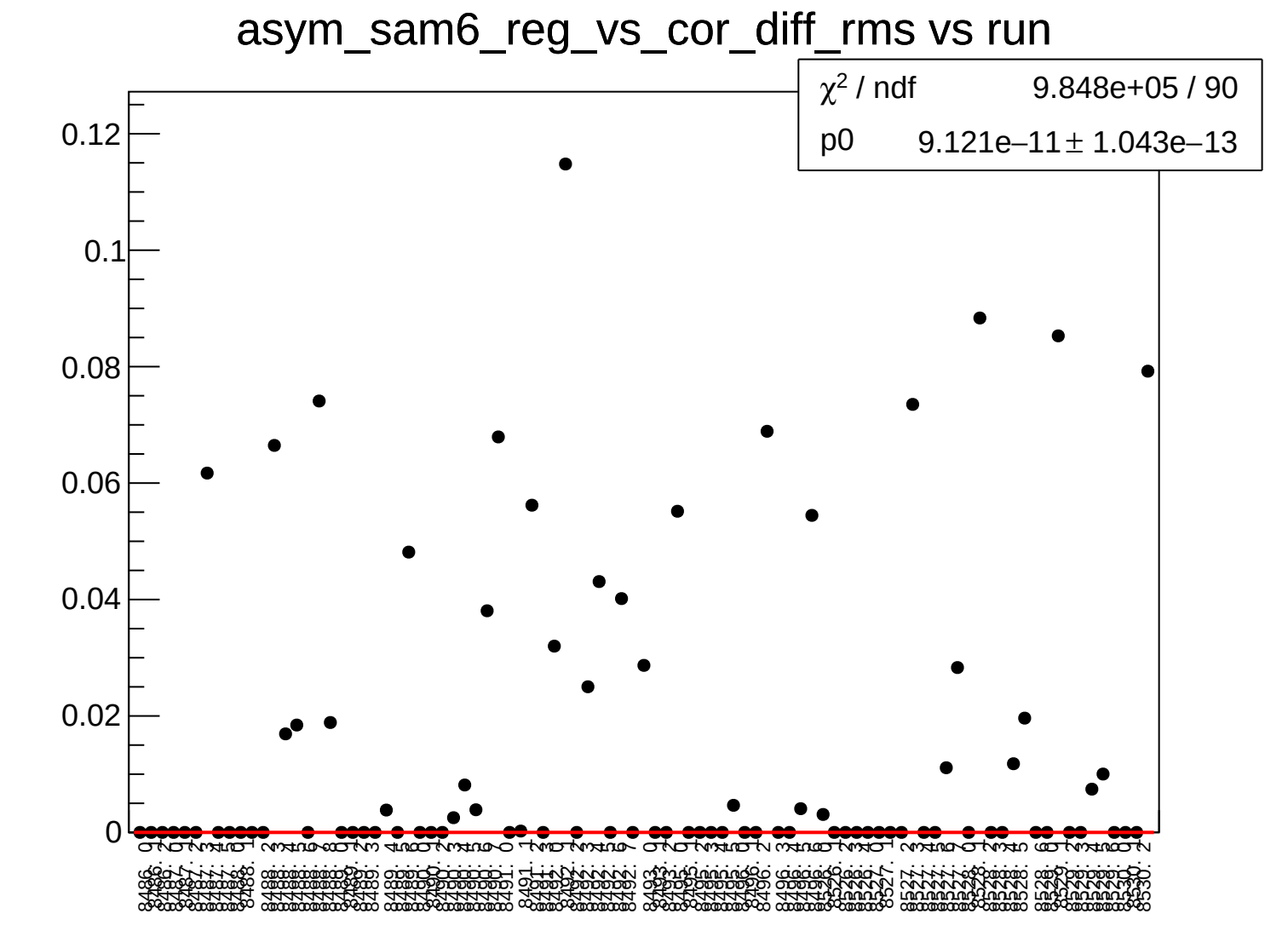

asym_sam6_mean vs run
χ² / ndf 93.35 / 90
p0 1549 ± 1609
pull
Entries 91
Mean 32.67
Std Dev 0

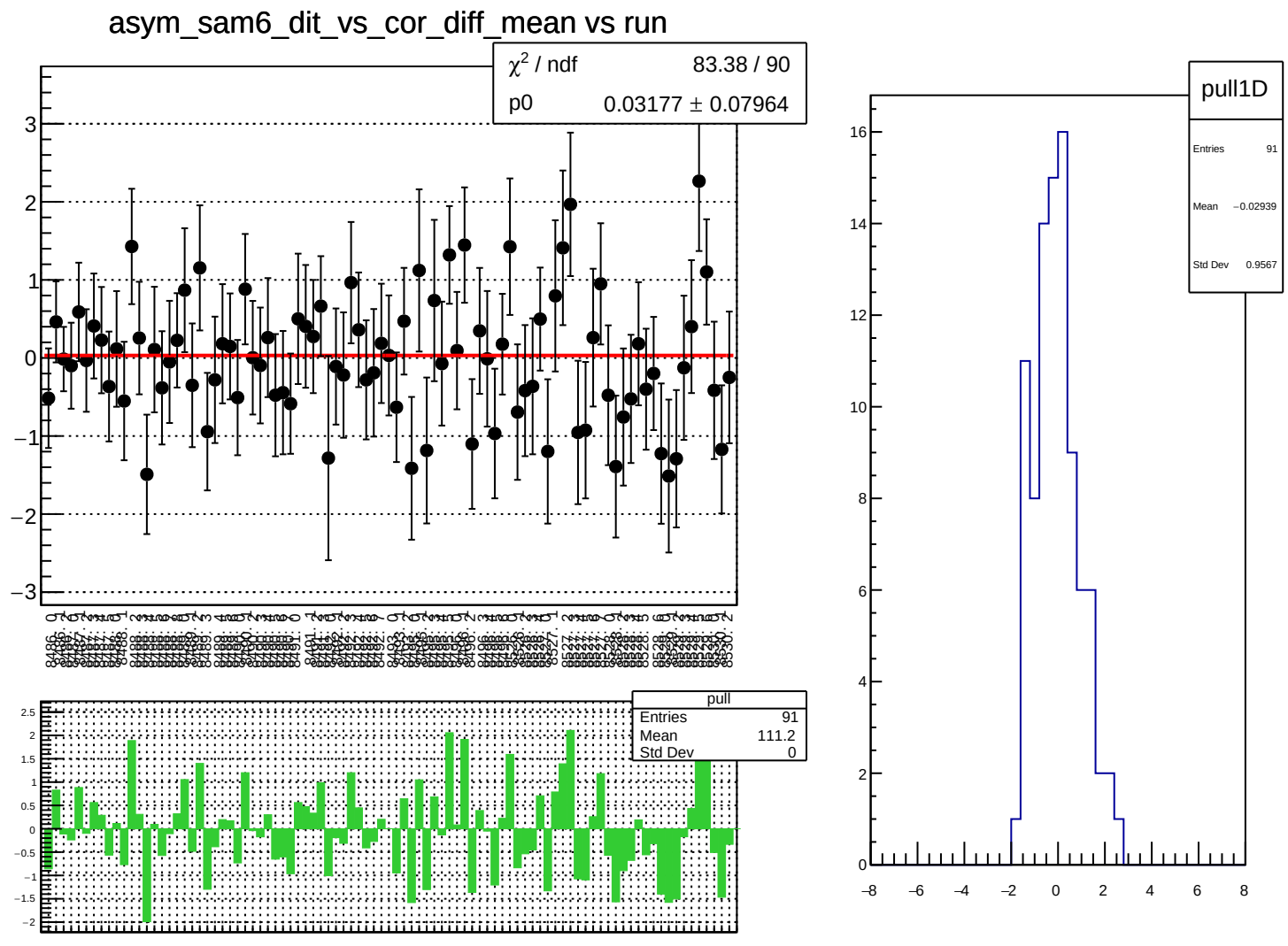

pull1D
Entries 91
Mean 0.04041
Std Dev 1.012

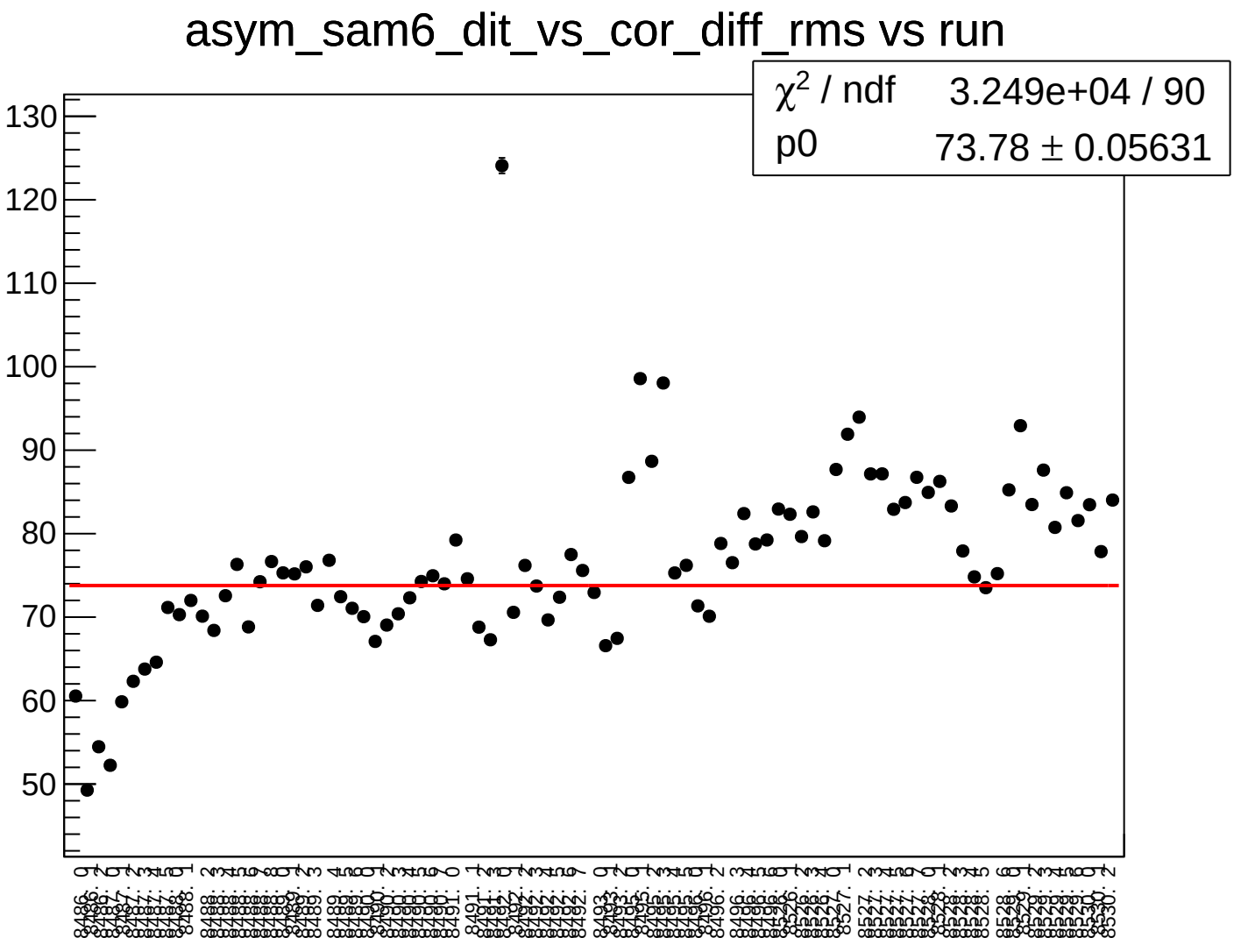

asym_sam6_rms vs run
χ² / ndf 2.13e+04 / 90
p0 1496 ± 1.138
2100
2000
1900
1800
1700
1600
1500
1400
1300

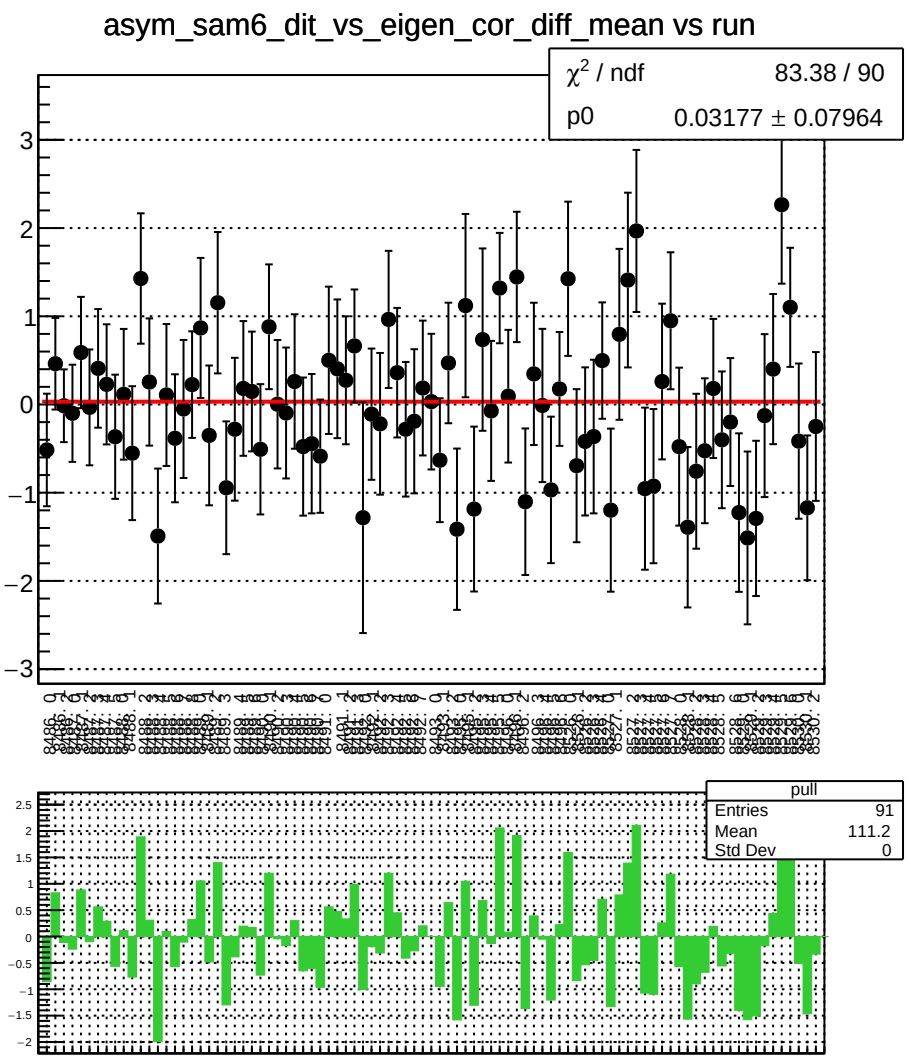

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 63.92 / 90
p0 −1.588e−13 ± 1.475e−13
pull
Entries 91
Mean 44.11
Std Dev 0

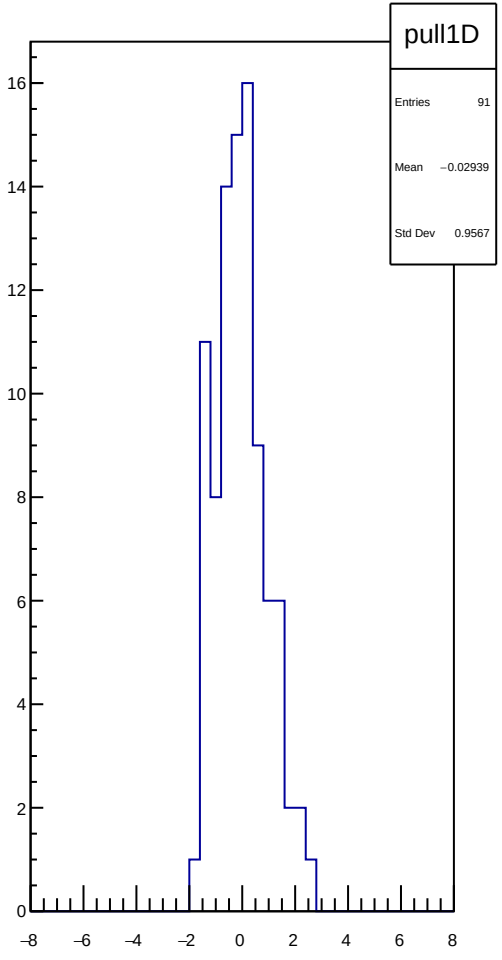

pull1D
Entries 91
Mean 0.1005
Std Dev 0.832

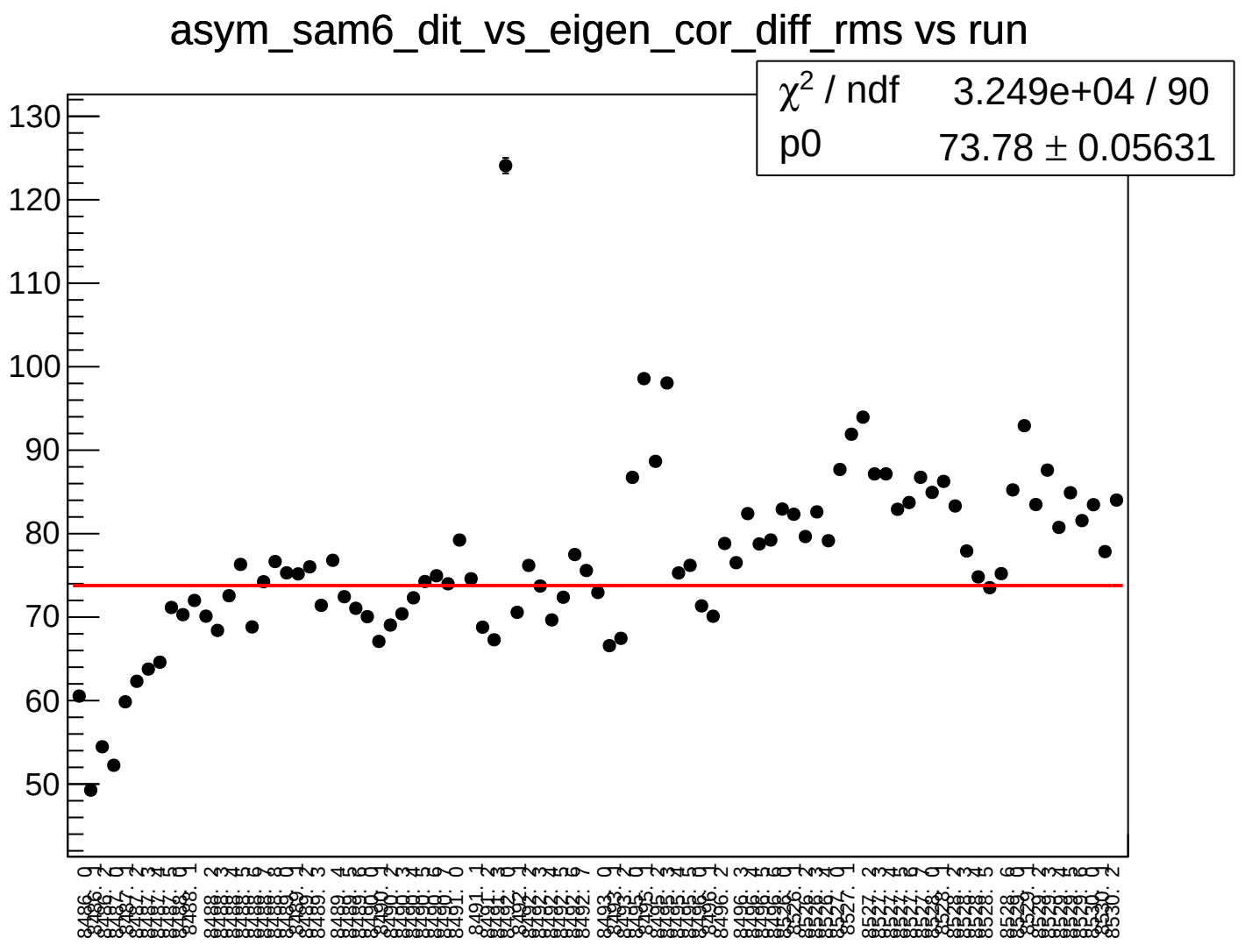

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 9.848e+05 / 90
p0 9.121e−11 ± 1.043e−13
0.12
0.1
0.08
0.06
0.04
0.02
0

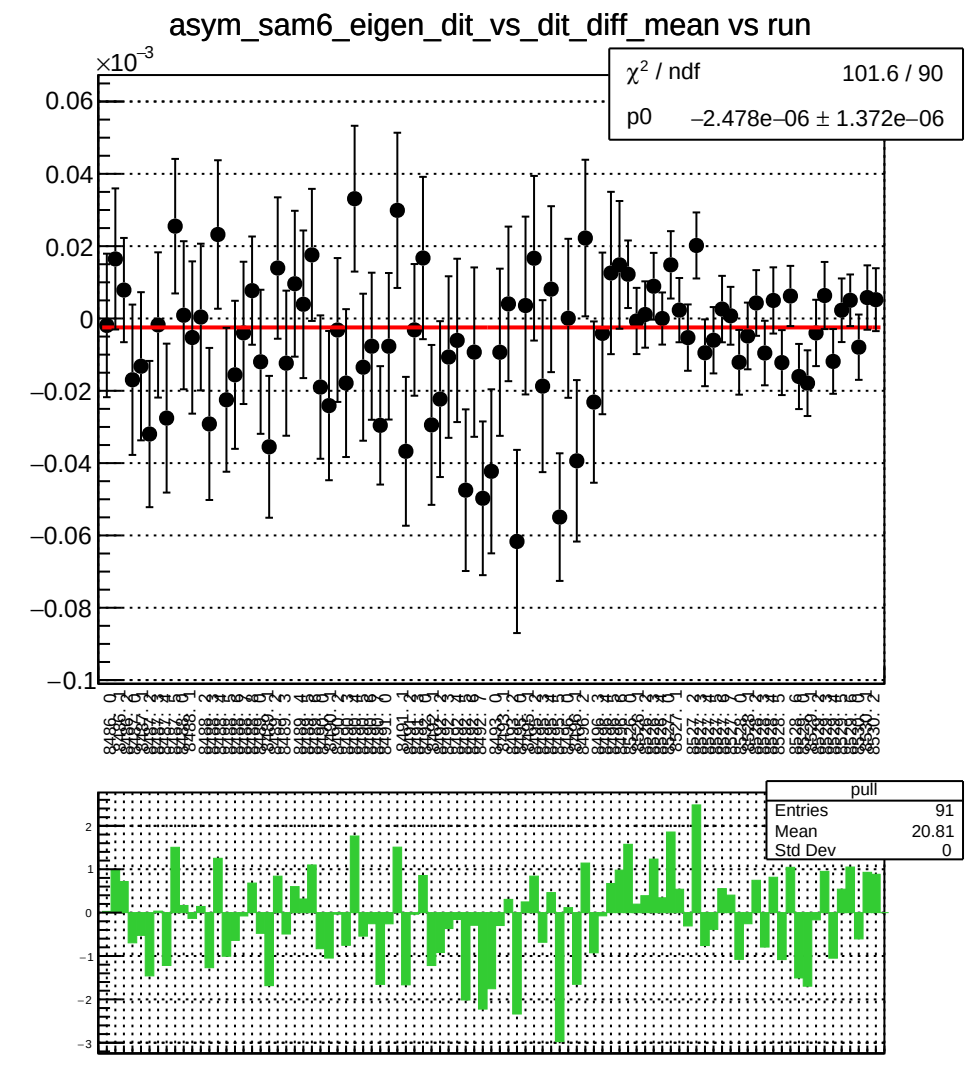

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 83.38 / 90
p0 0.03177 ± 0.07964
pull
Entries 91
Mean 111.2
Std Dev 0
pull1D
Entries 91
Mean −0.02939
Std Dev 0.9567

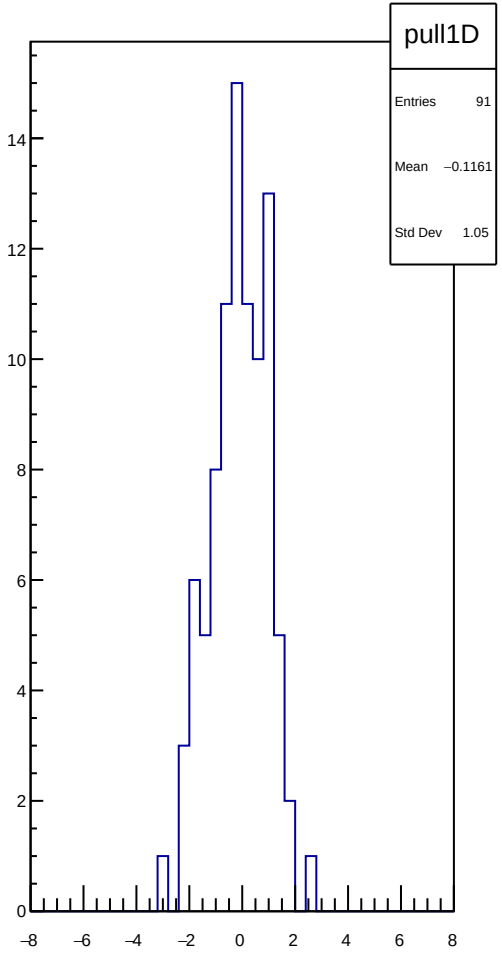

asym_sam6_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.249e+04 / 90
p0 73.78 ± 0.05631
130
120
110
100
90
80
70
60
50

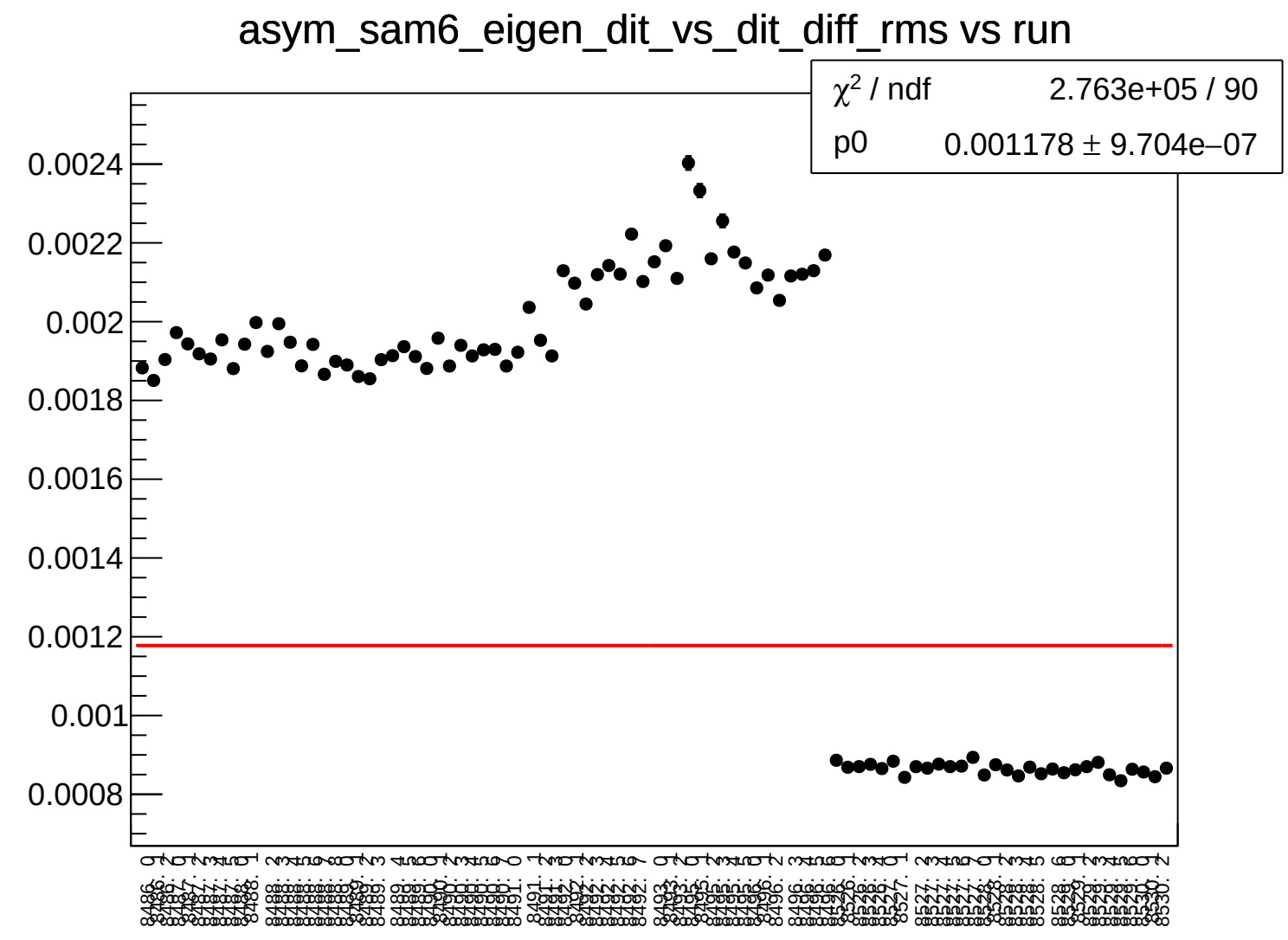

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.38 / 90
p0 0.03177 ± 0.07964
pull
Entries 91
Mean 111.2
Std Dev 0

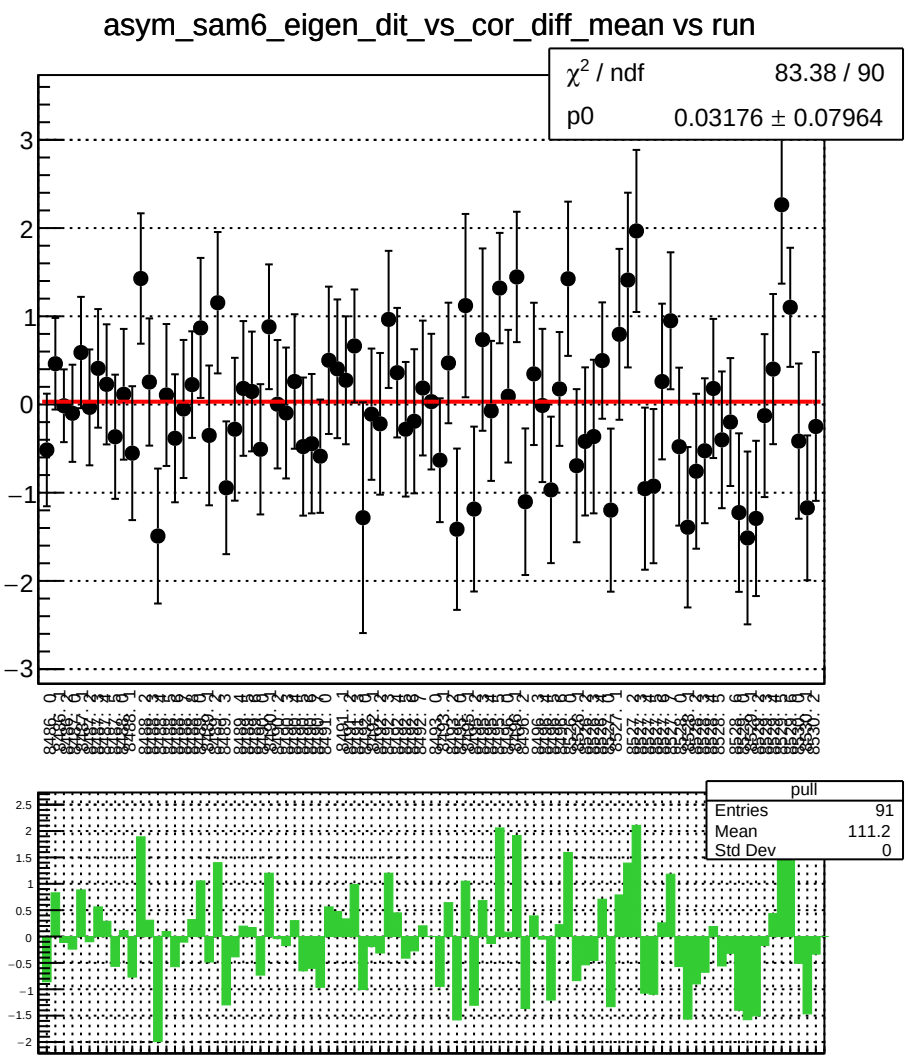

pull1D
Entries 91
Mean −0.02939
Std Dev 0.9567

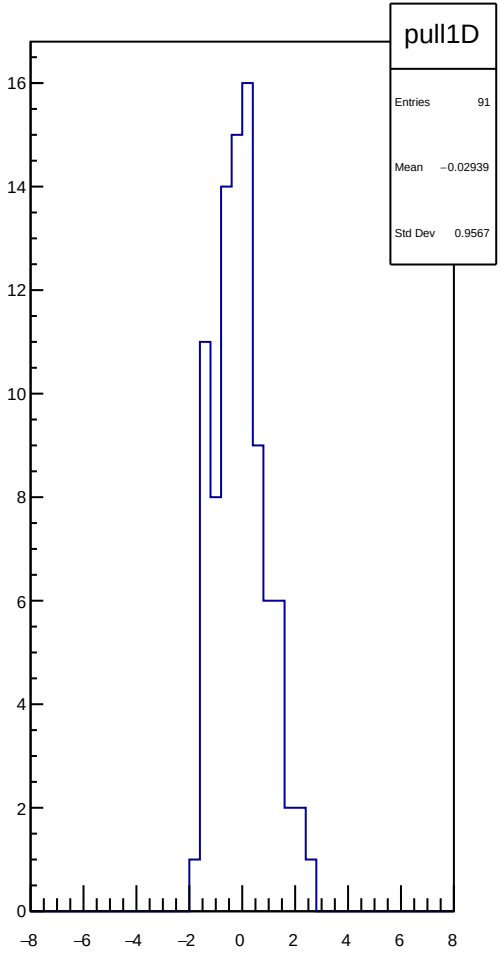

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.249e+04 / 90
p0 73.78 ± 0.05631
130
120
110
100
90
80
70
60
50

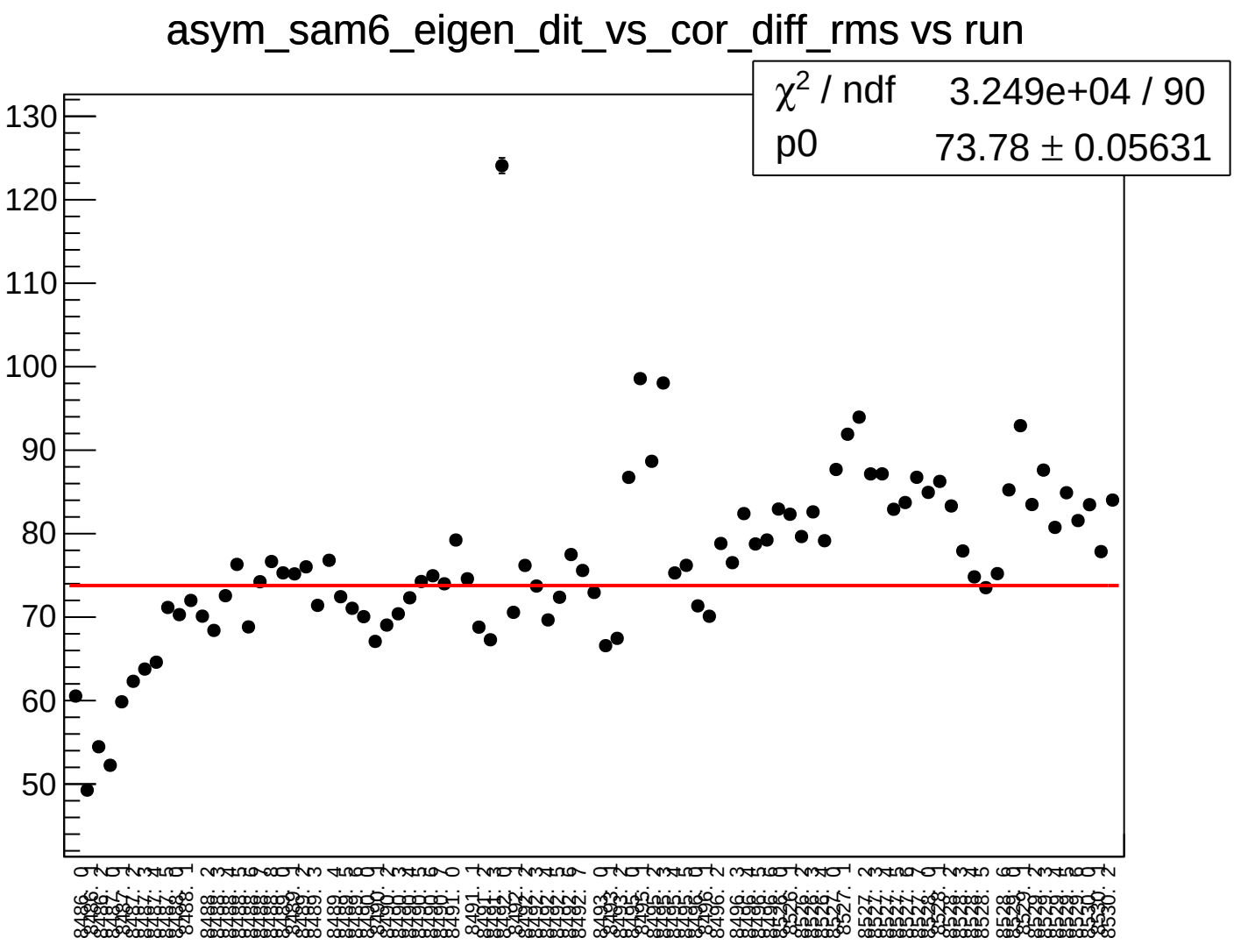

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.6 / 90
p0 −2.478e−06 ± 1.372e−06
pull
Entries 91
Mean 20.81
Std Dev 0

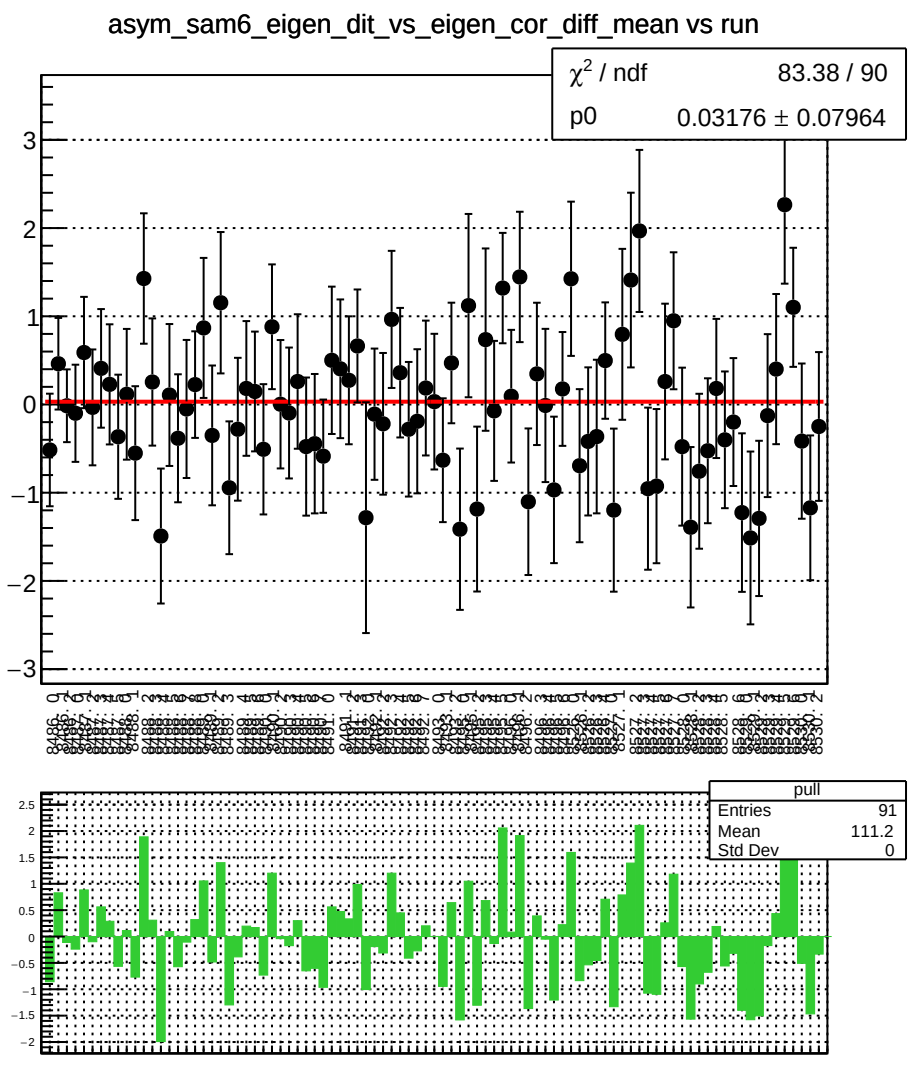

pull1D
Entries 91
Mean −0.1161
Std Dev 1.05

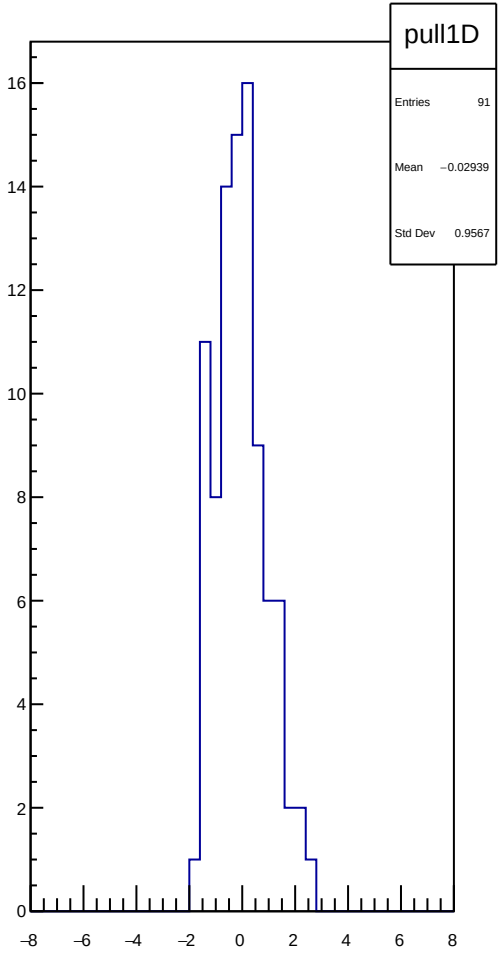

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.763e+05 / 90
p0 0.001178 ± 9.704e−07
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008

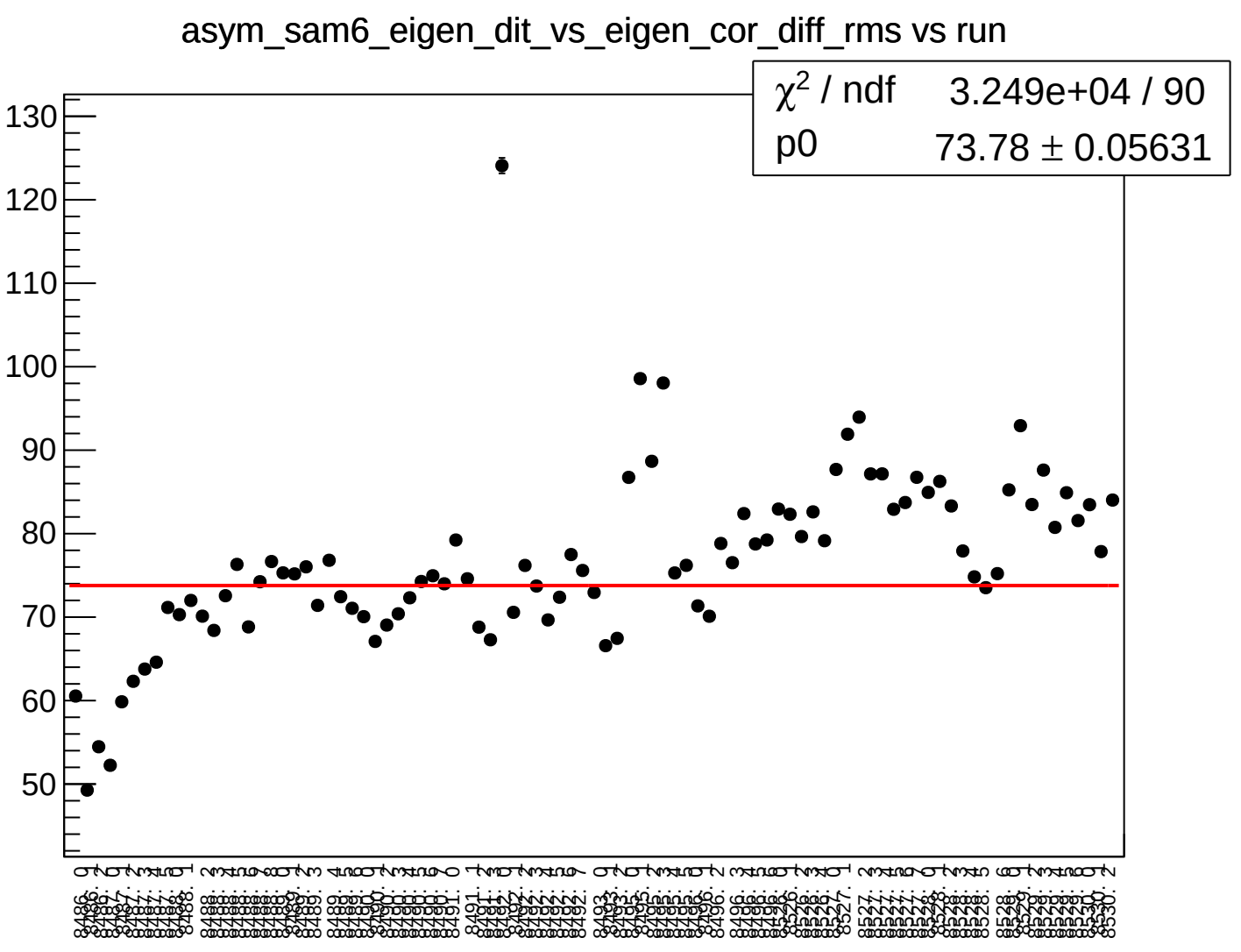

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.38 / 90
p0 0.03176 ± 0.07964
pull
Entries 91
Mean 111.2
Std Dev 0

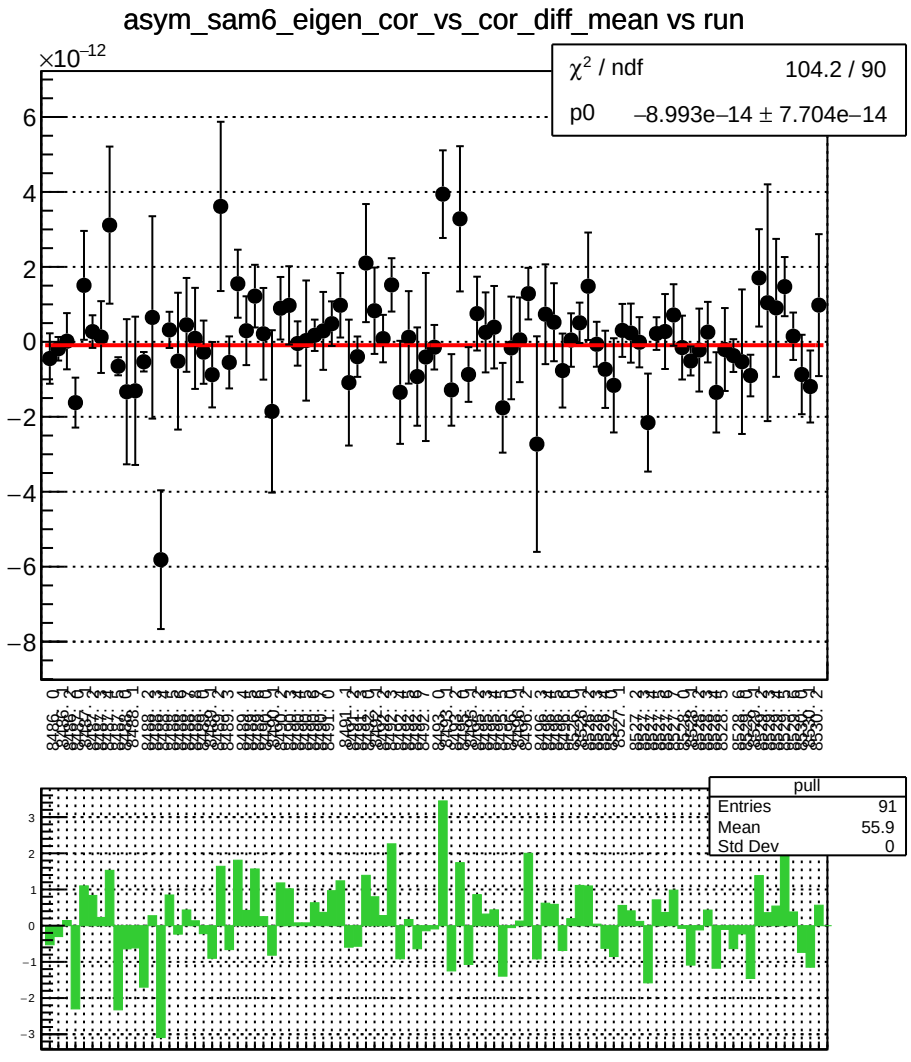

pull1D
Entries 91
Mean −0.02939
Std Dev 0.9567

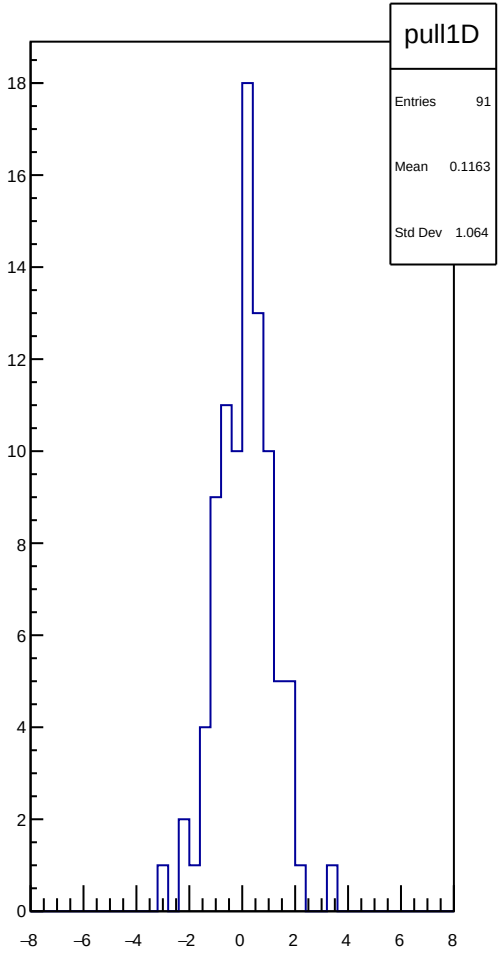

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.249e+04 / 90
p0 73.78 ± 0.05631
130
120
110
100
90
80
70
60
50

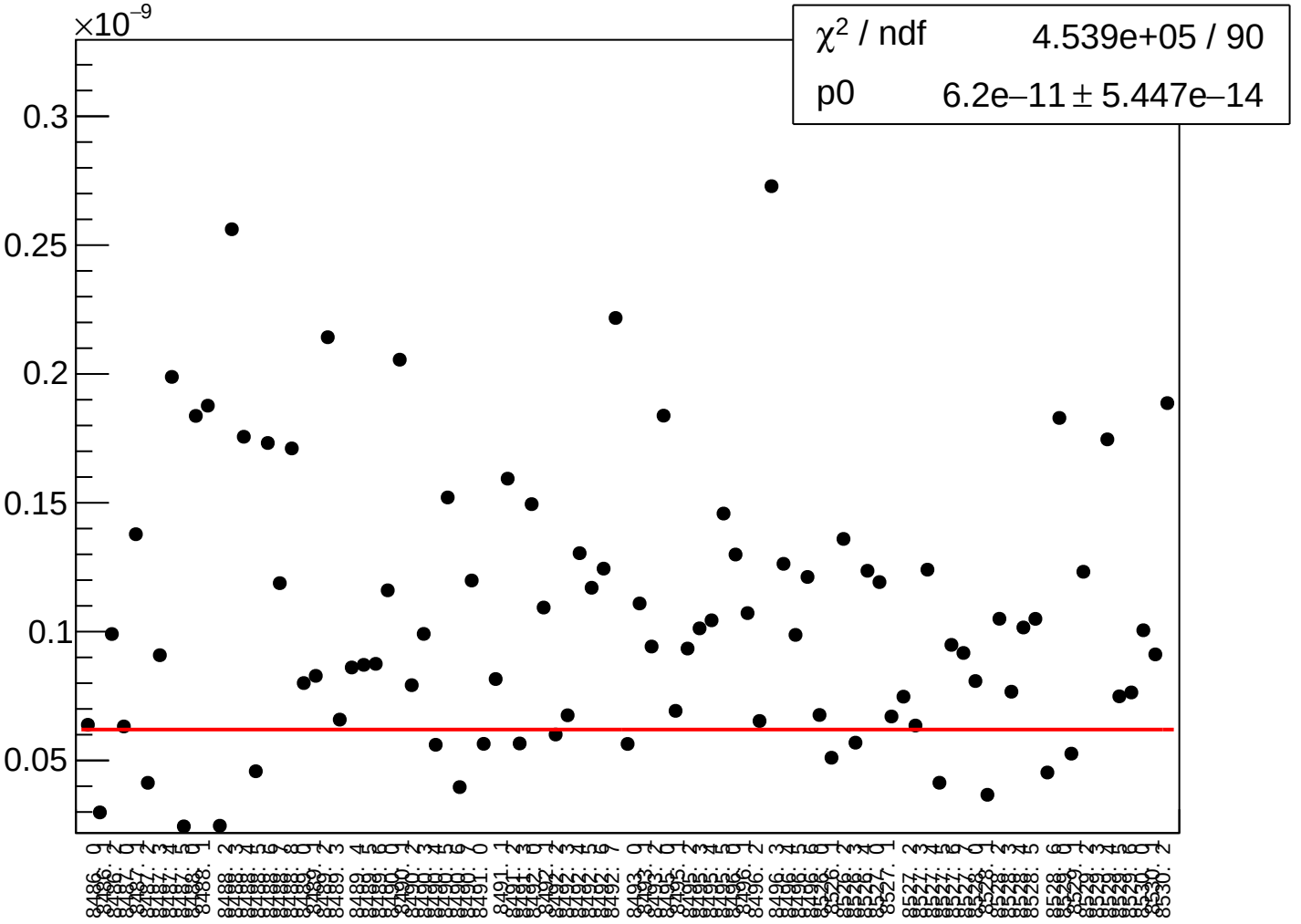

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.38 / 90
p0 0.03176 ± 0.07964
pull
Entries 91
Mean 111.2
Std Dev 0

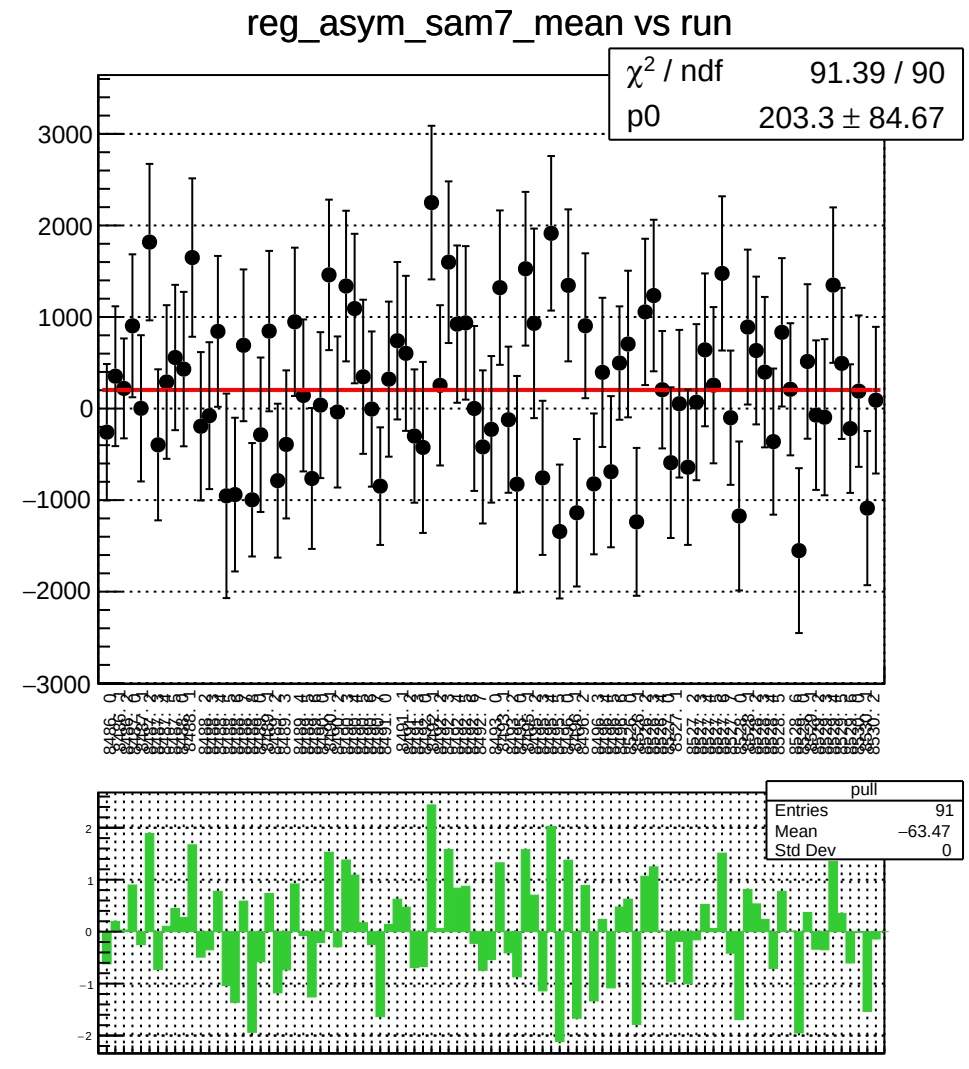

pull1D
Entries 91
Mean −0.02939
Std Dev 0.9567

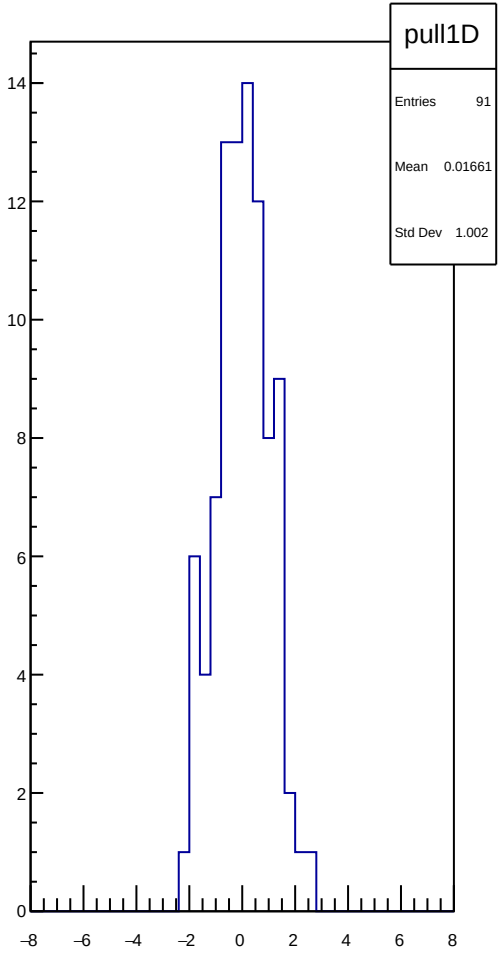

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 3.249e+04 / 90
p0 73.78 ± 0.05631
130
120
110
100
90
80
70
60
50

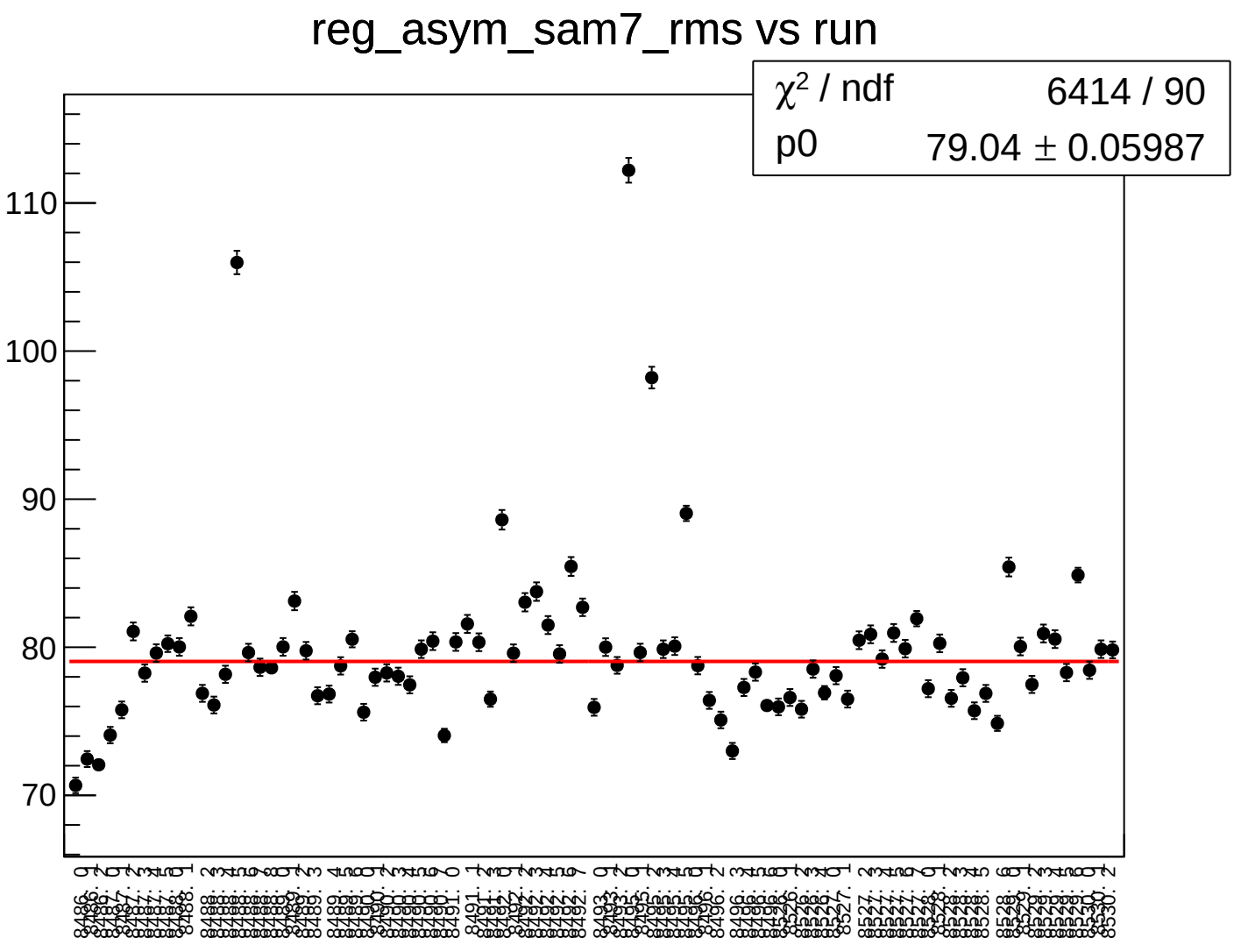

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 104.2 / 90
p0 −8.993e−14 ± 7.704e−14
pull
Entries 91
Mean 55.9
Std Dev 0

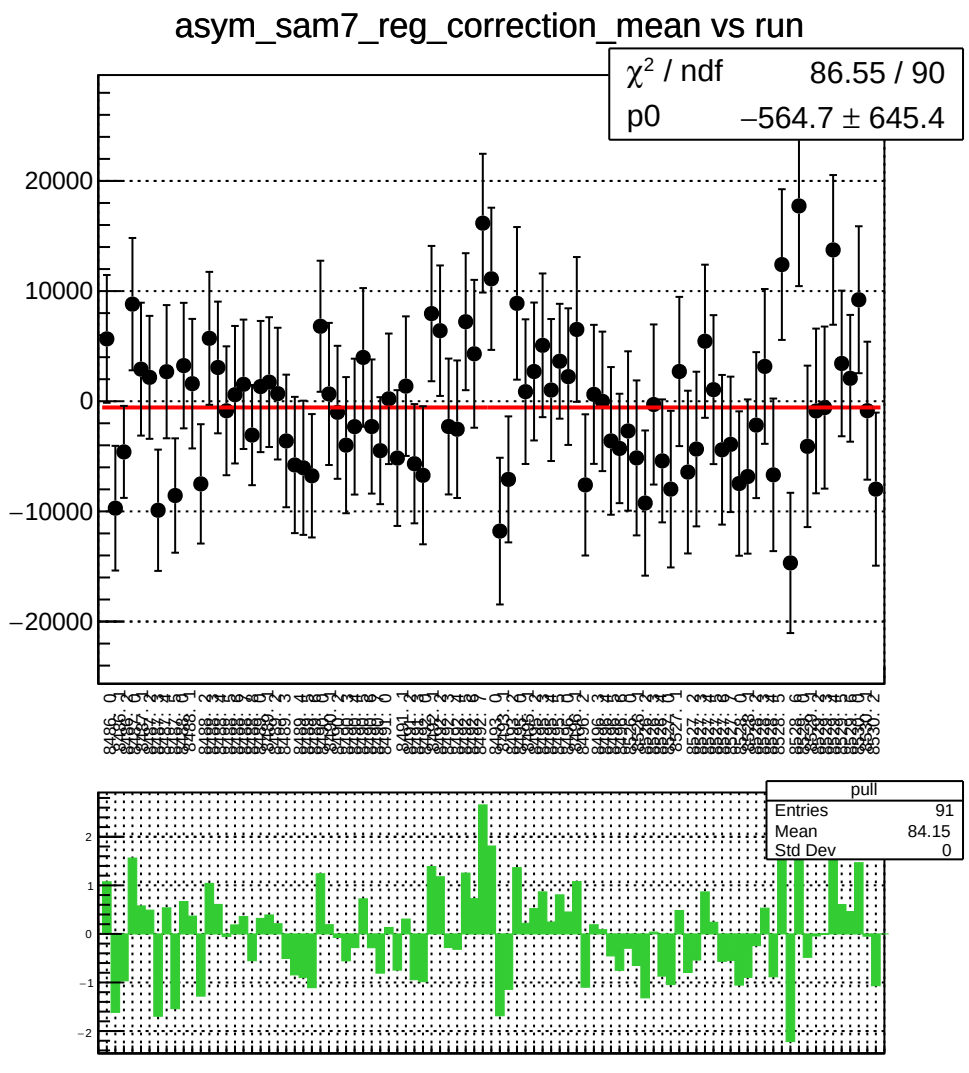

pull1D
Entries 91
Mean 0.1163
Std Dev 1.064

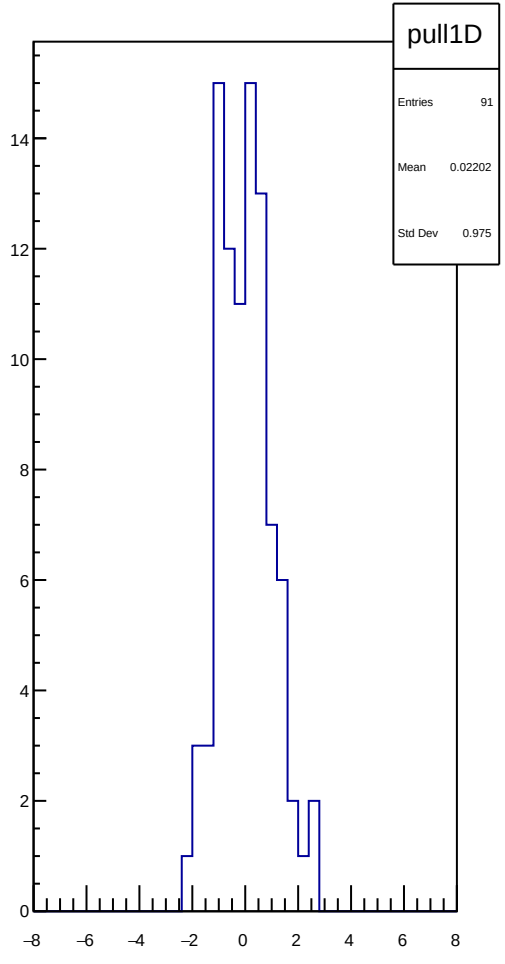

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.539e+05 / 90
p0 6.2e−11 ± 5.447e−14
0.3
0.25
0.2
0.15
0.1
0.05

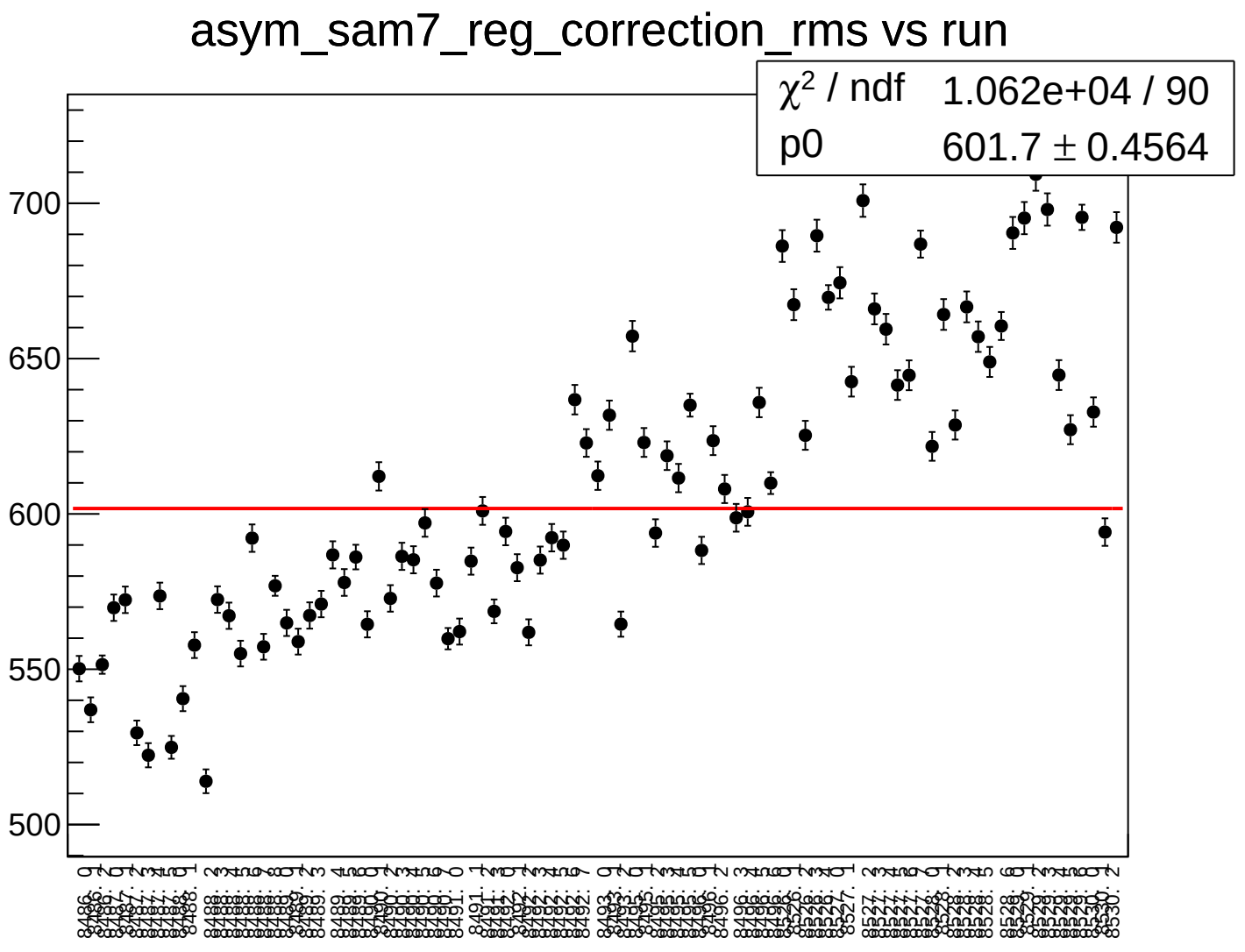

reg_asym_sam7_mean vs run
χ² / ndf 91.39 / 90
p0 203.3 ± 84.67
pull
Entries 91
Mean −63.47
Std Dev 0

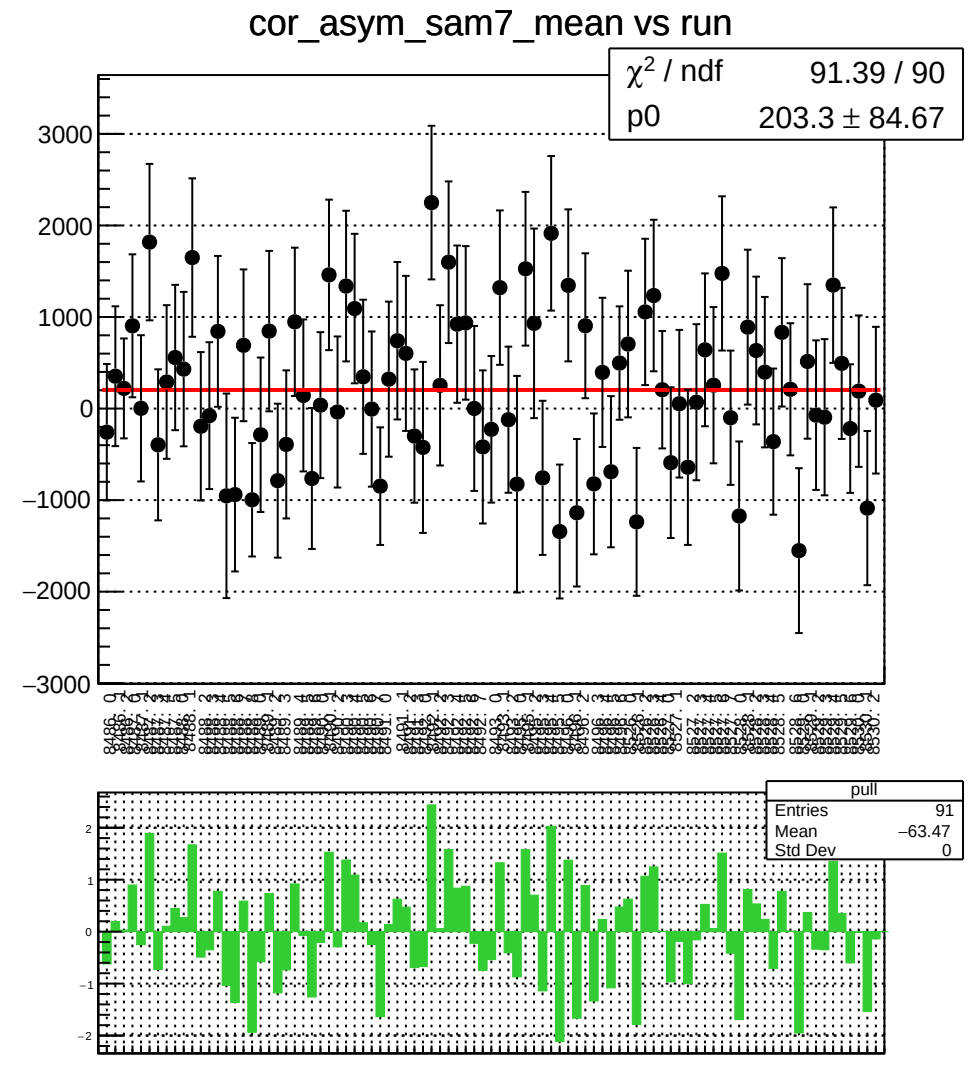

pull1D
Entries 91
Mean 0.01661
Std Dev 1.002

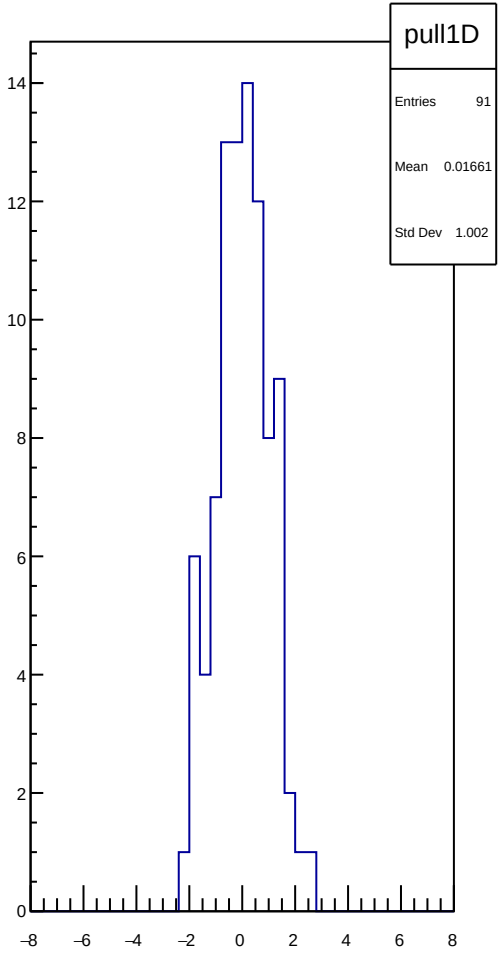

reg_asym_sam7_rms vs run
χ^2 / ndf 6414 / 90
p0 79.04 ± 0.05987
110
100
90
80
70

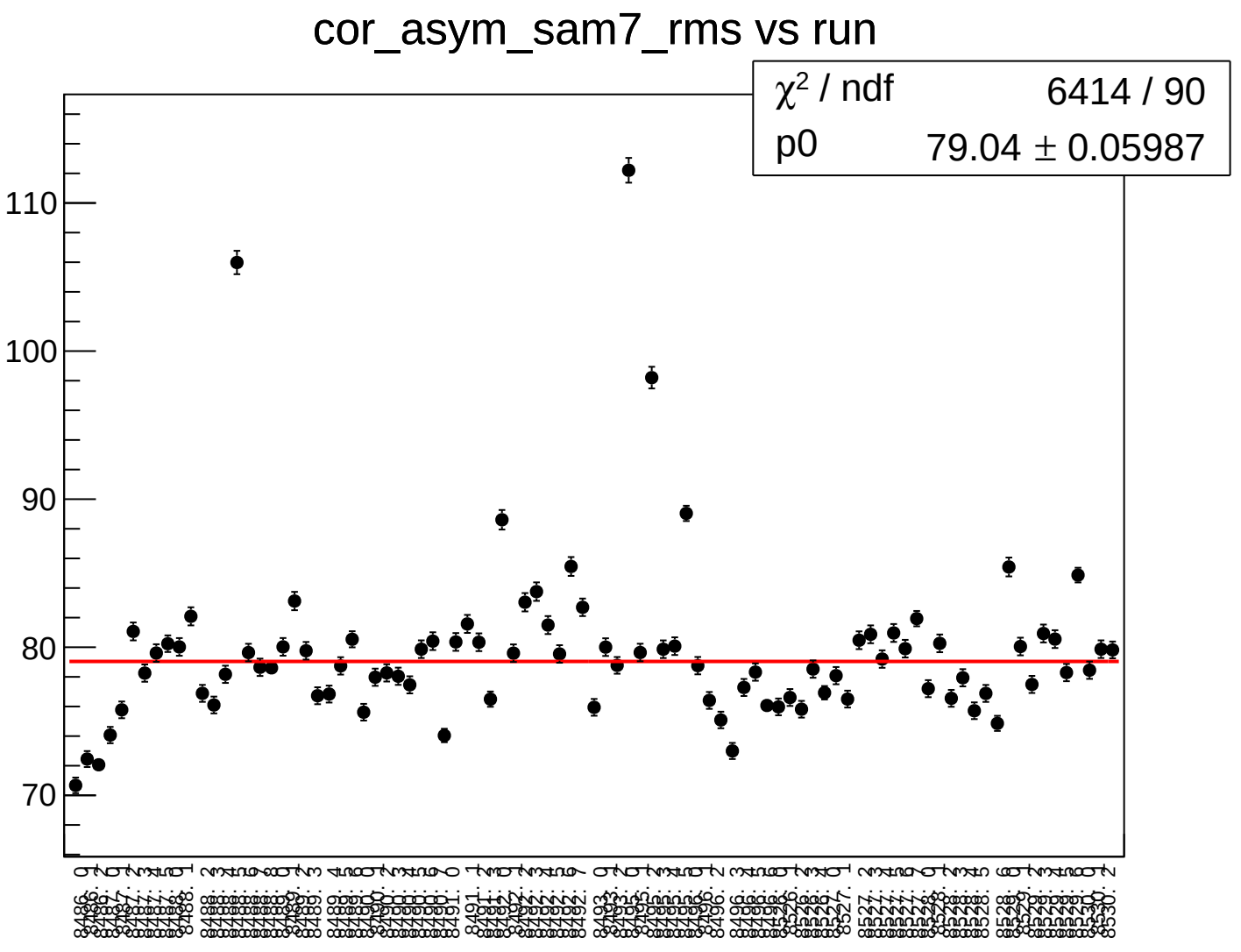

asym_sam7_reg_correction_mean vs run
χ² / ndf 86.55 / 90
p0 −564.7 ± 645.4
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 84.15
Std Dev 0
2
1
0
−1
−2

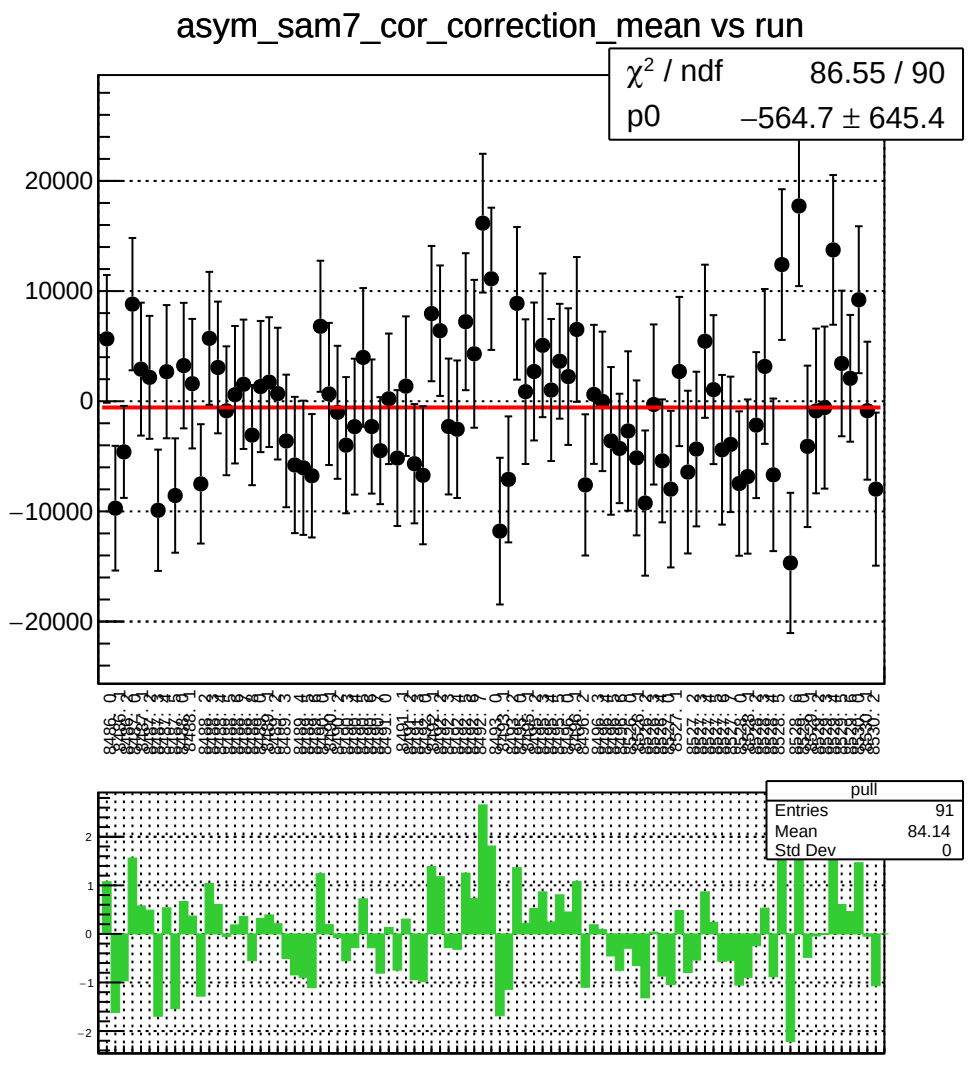

pull1D
Entries 91
Mean 0.02202
Std Dev 0.975
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

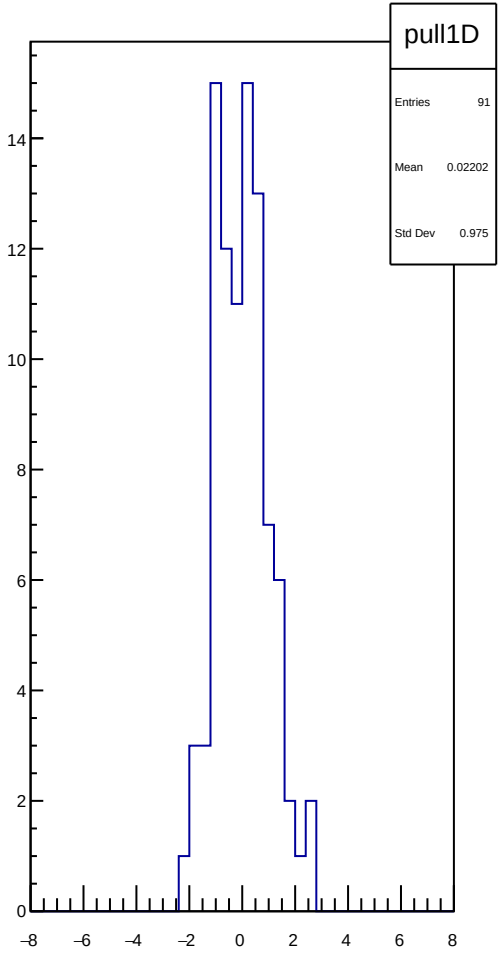

asym_sam7_reg_correction_rms vs run
χ² / ndf 1.062e+04 / 90
p0 601.7 ± 0.4564
700
650
600
550
500

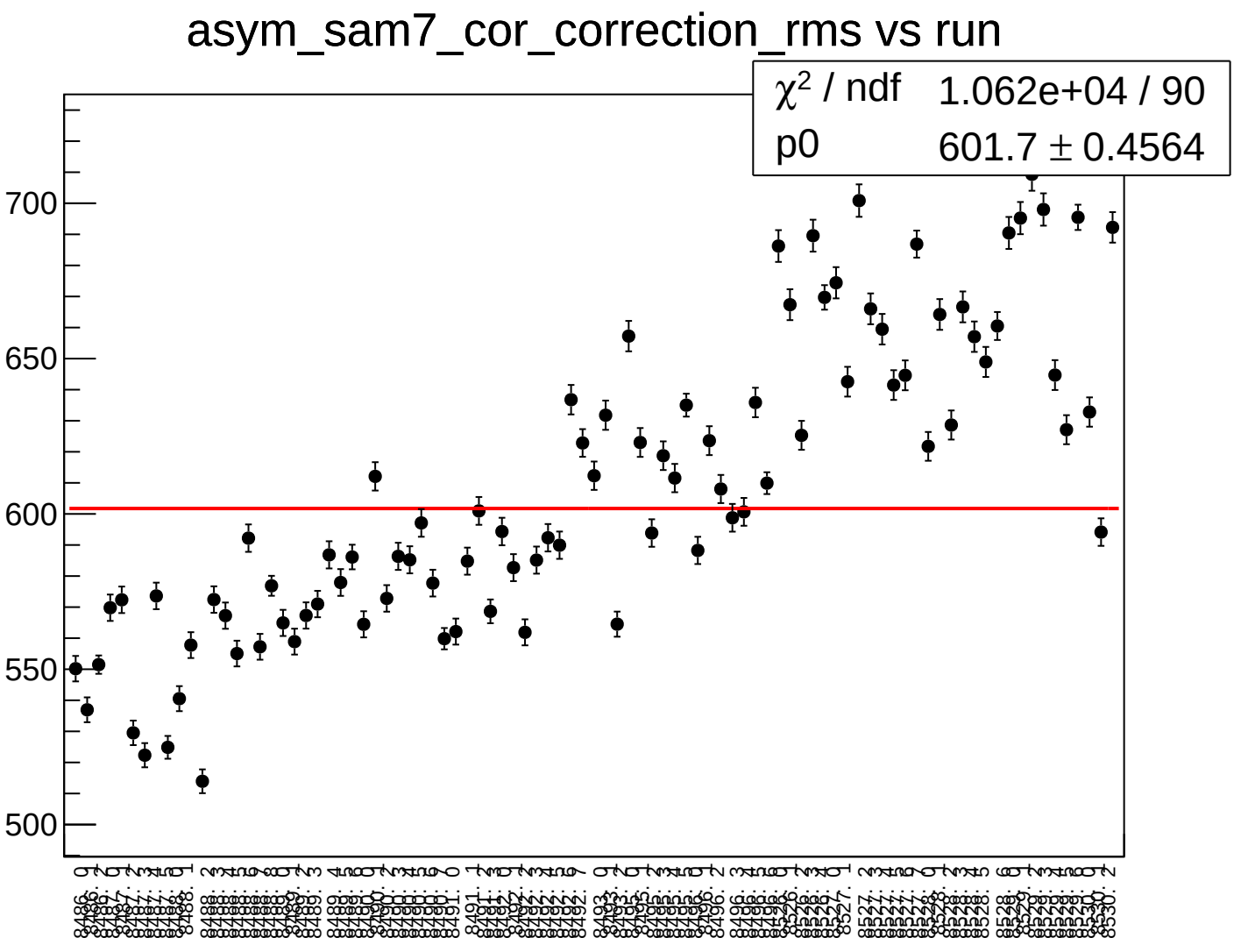

cor_asym_sam7_mean vs run
χ² / ndf 91.39 / 90
p0 203.3 ± 84.67
pull
Entries 91
Mean −63.47
Std Dev 0

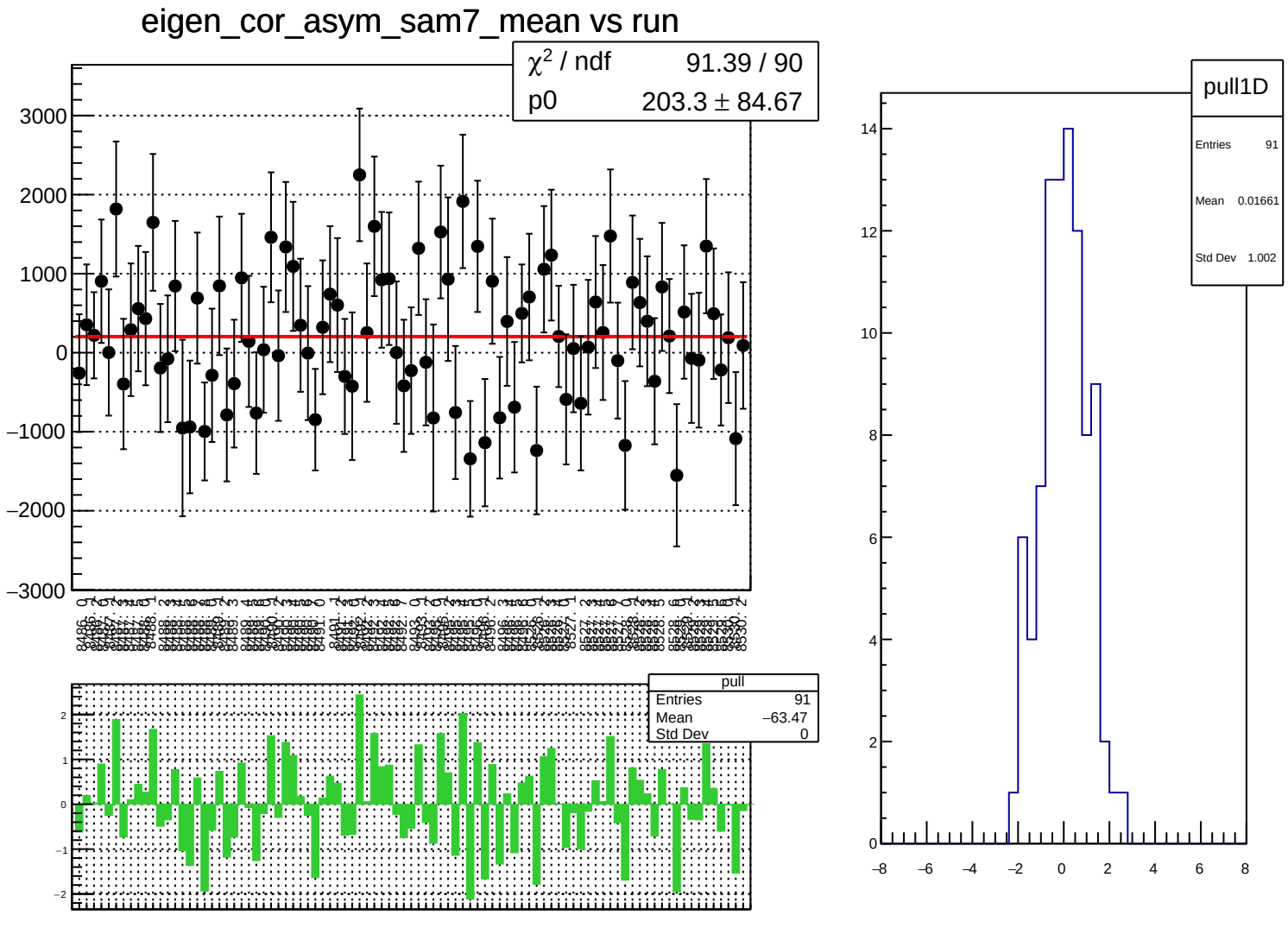

pull1D
Entries 91
Mean 0.01661
Std Dev 1.002

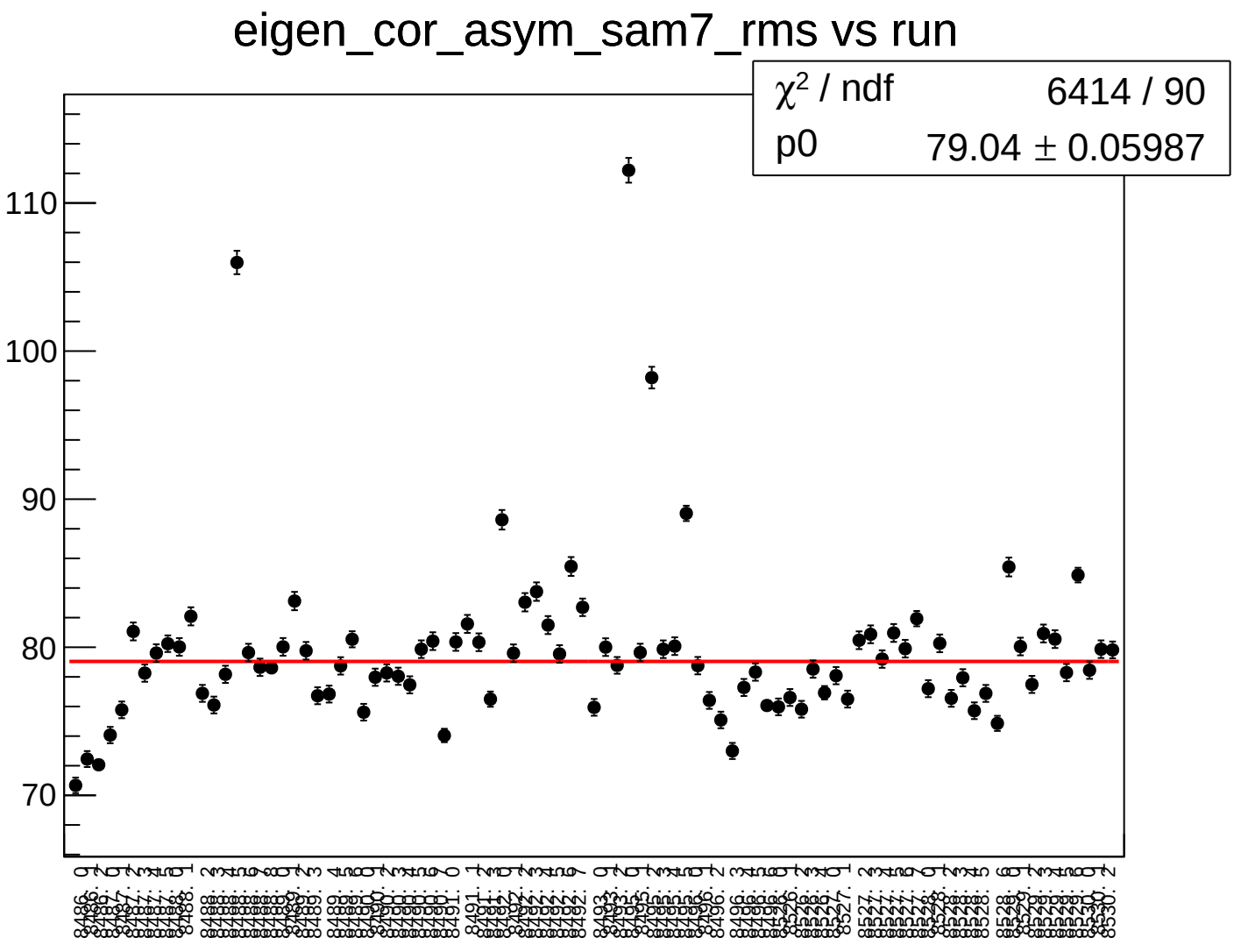

cor_asym_sam7_rms vs run
χ^2 / ndf 6414 / 90
p0 79.04 ± 0.05987
110
100
90
80
70

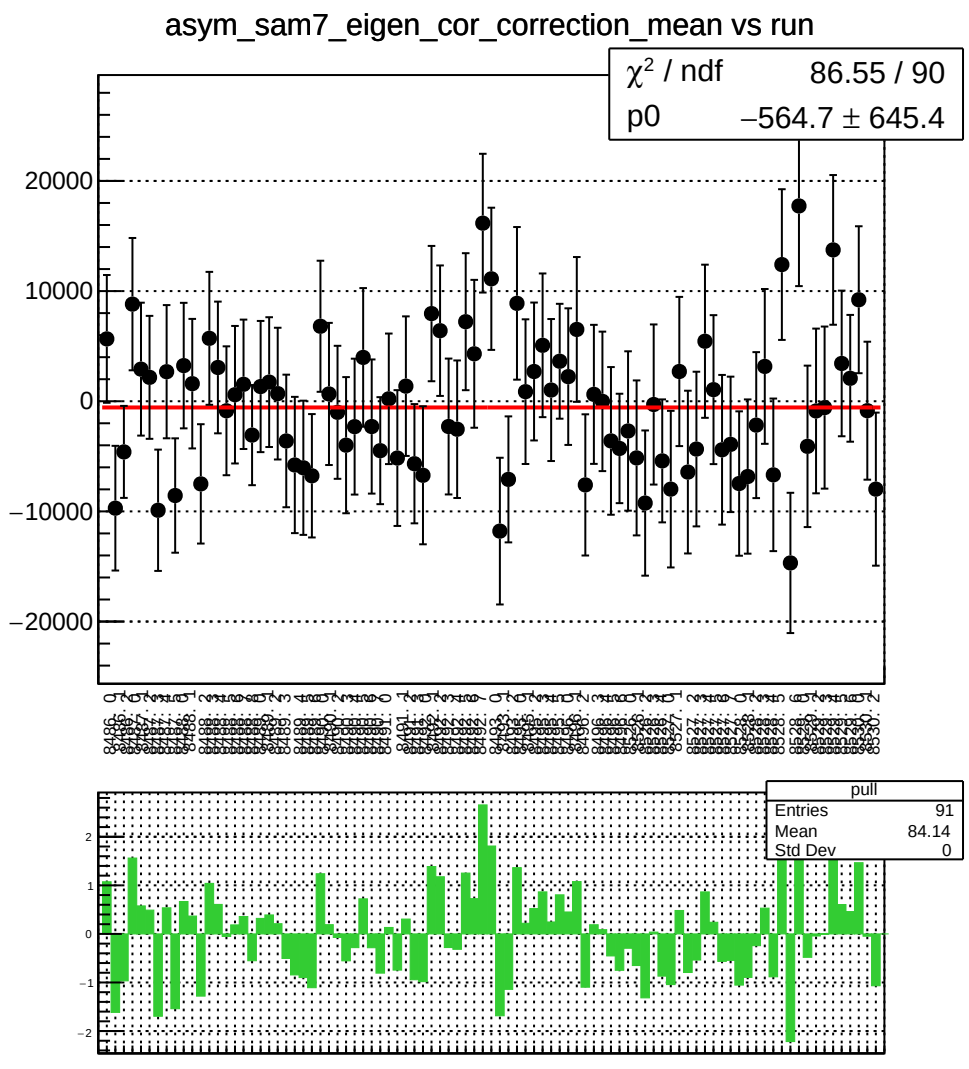

asym_sam7_cor_correction_mean vs run
χ² / ndf 86.55 / 90
p0 −564.7 ± 645.4
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 84.14
Std Dev 0
2
1
0
−1
−2

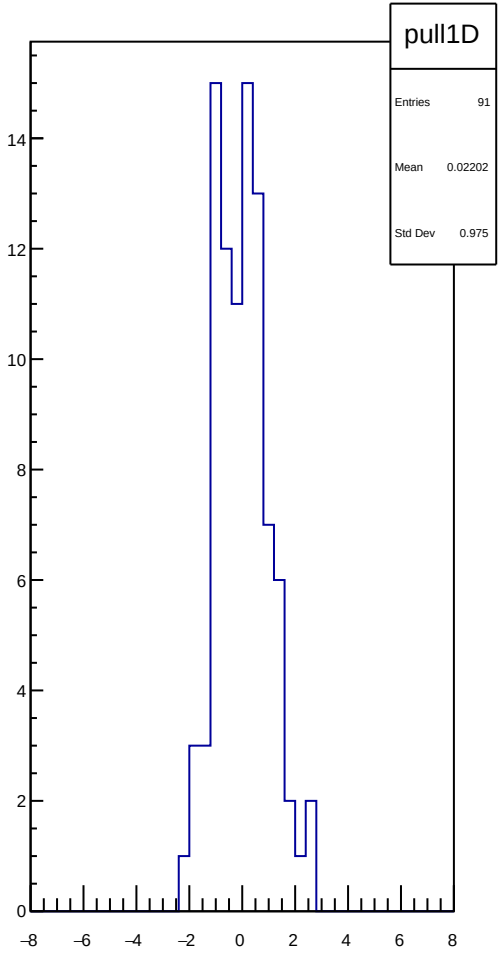

pull1D
Entries 91
Mean 0.02202
Std Dev 0.975
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

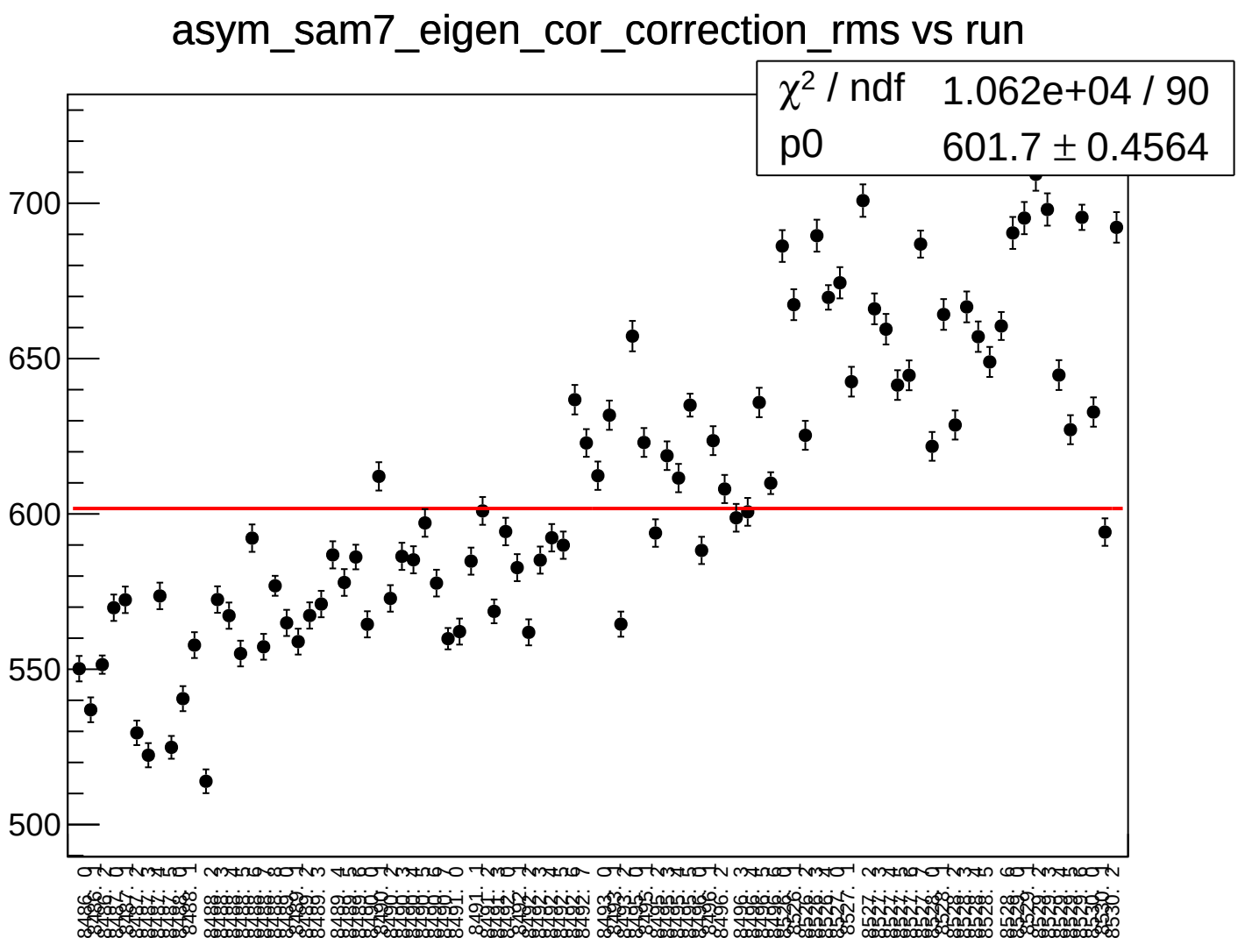

asym_sam7_cor_correction_rms vs run
χ² / ndf 1.062e+04 / 90
p0 601.7 ± 0.4564
700
650
600
550
500

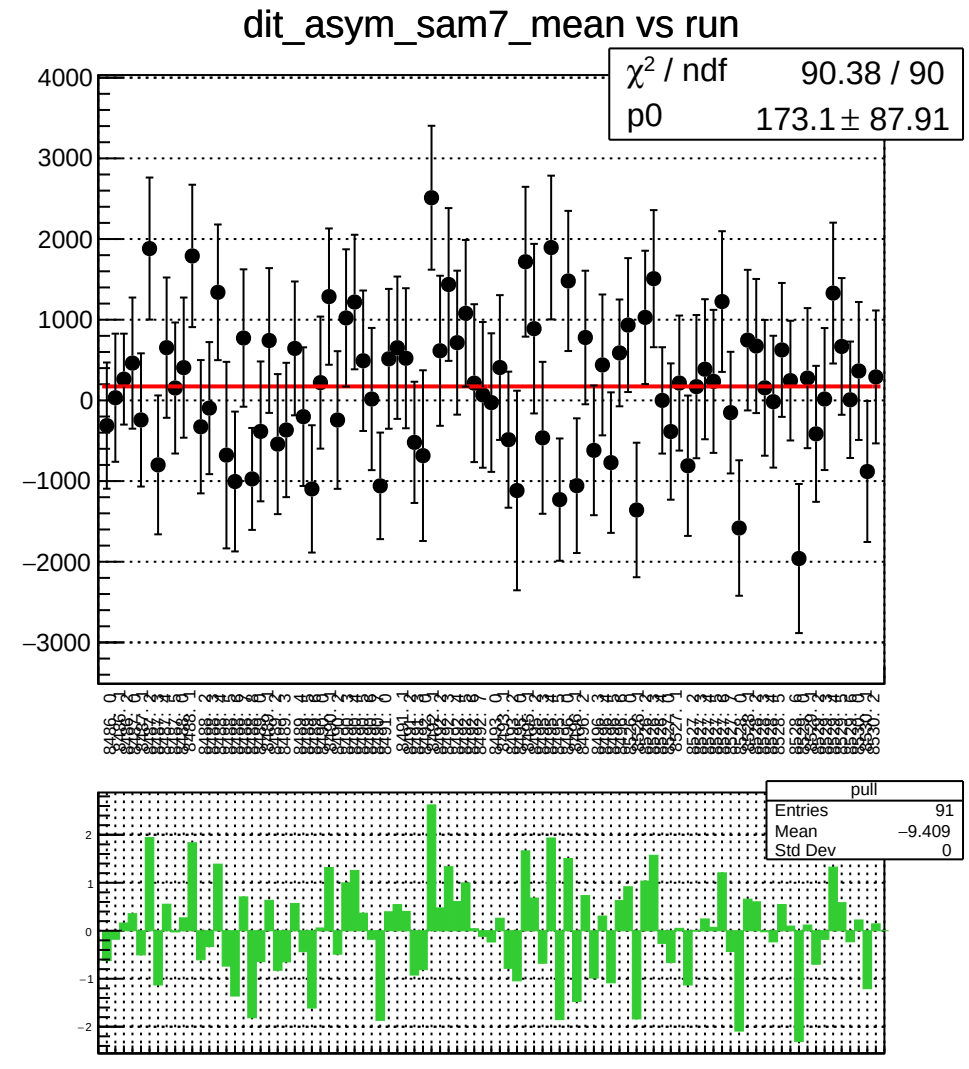

eigen_cor_asym_sam7_mean vs run
χ² / ndf 91.39 / 90
p0 203.3 ± 84.67
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 91
Mean −63.47
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.01661
Std Dev 1.002
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

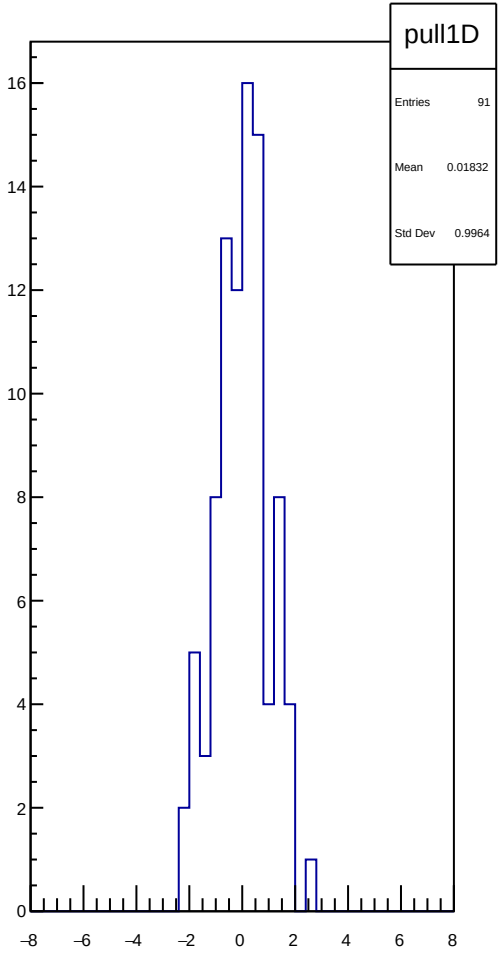

eigen_cor_asym_sam7_rms vs run
χ^2 / ndf 6414 / 90
p0 79.04 ± 0.05987
110
100
90
80
70

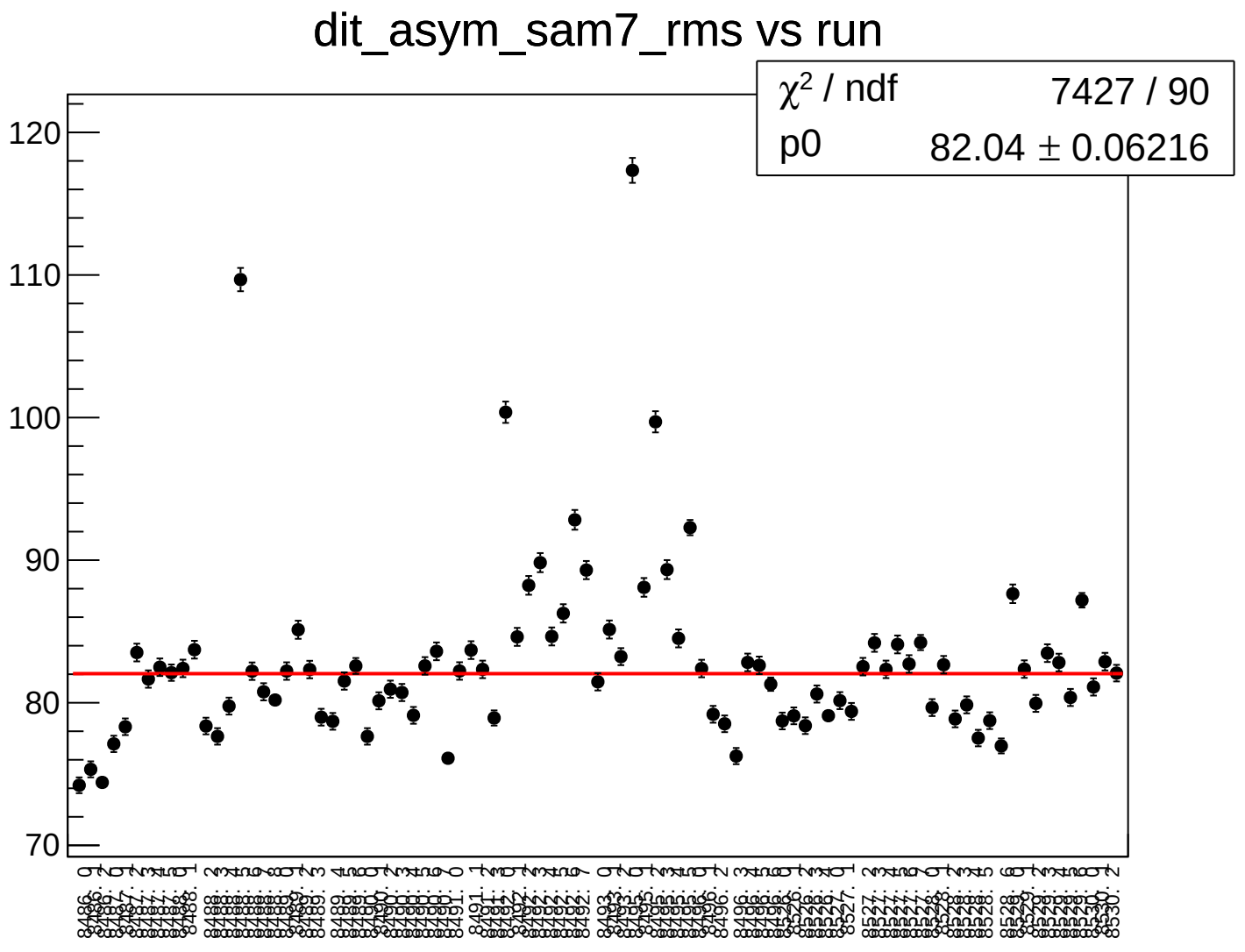

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 86.55 / 90
p0 −564.7 ± 645.4
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 84.14
Std Dev 0
2
1
0
−1
−2

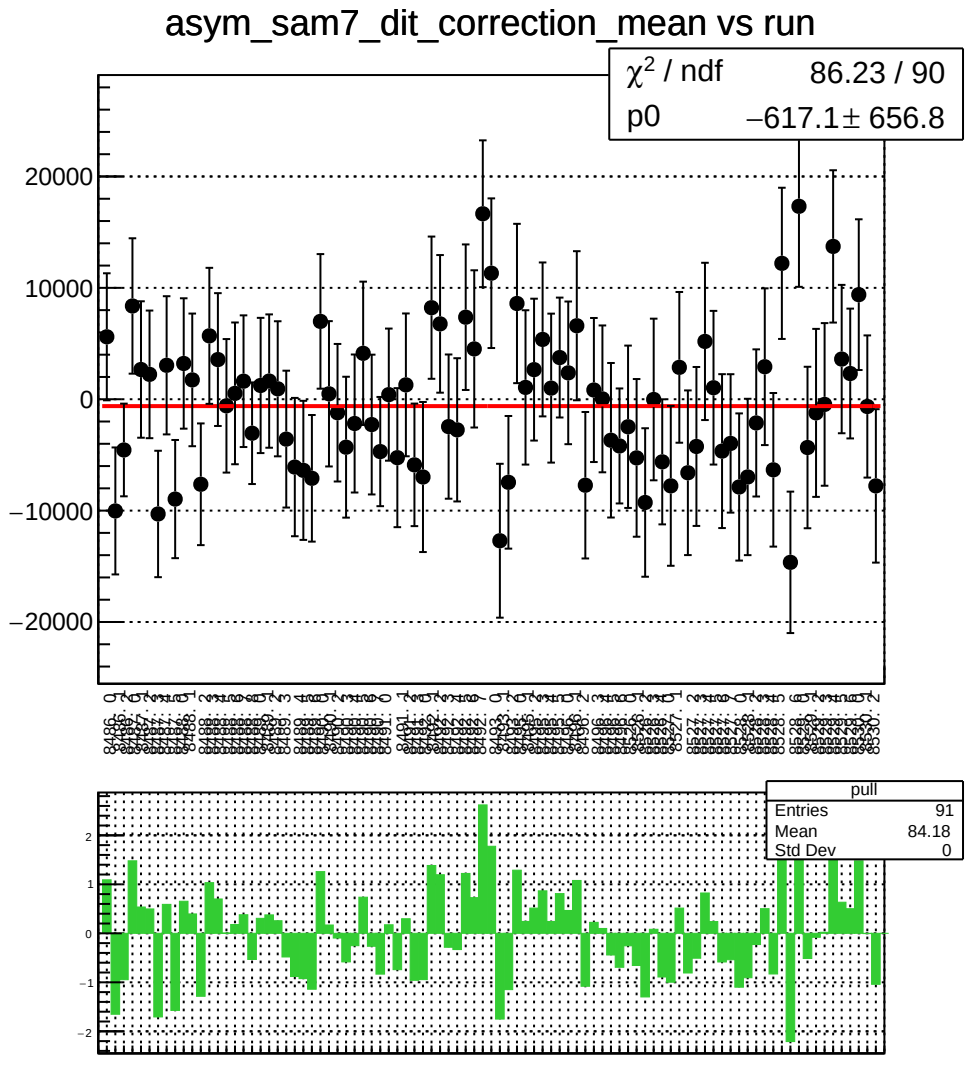

pull1D
Entries 91
Mean 0.02202
Std Dev 0.975
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

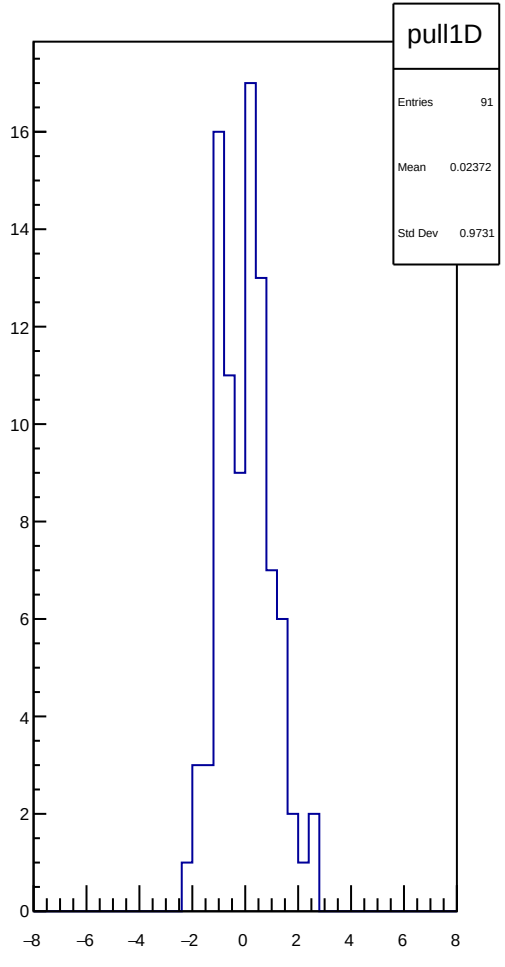

asym_sam7_eigen_cor_correction_rms vs run
χ² / ndf 1.062e+04 / 90
p0 601.7 ± 0.4564
700
650
600
550
500

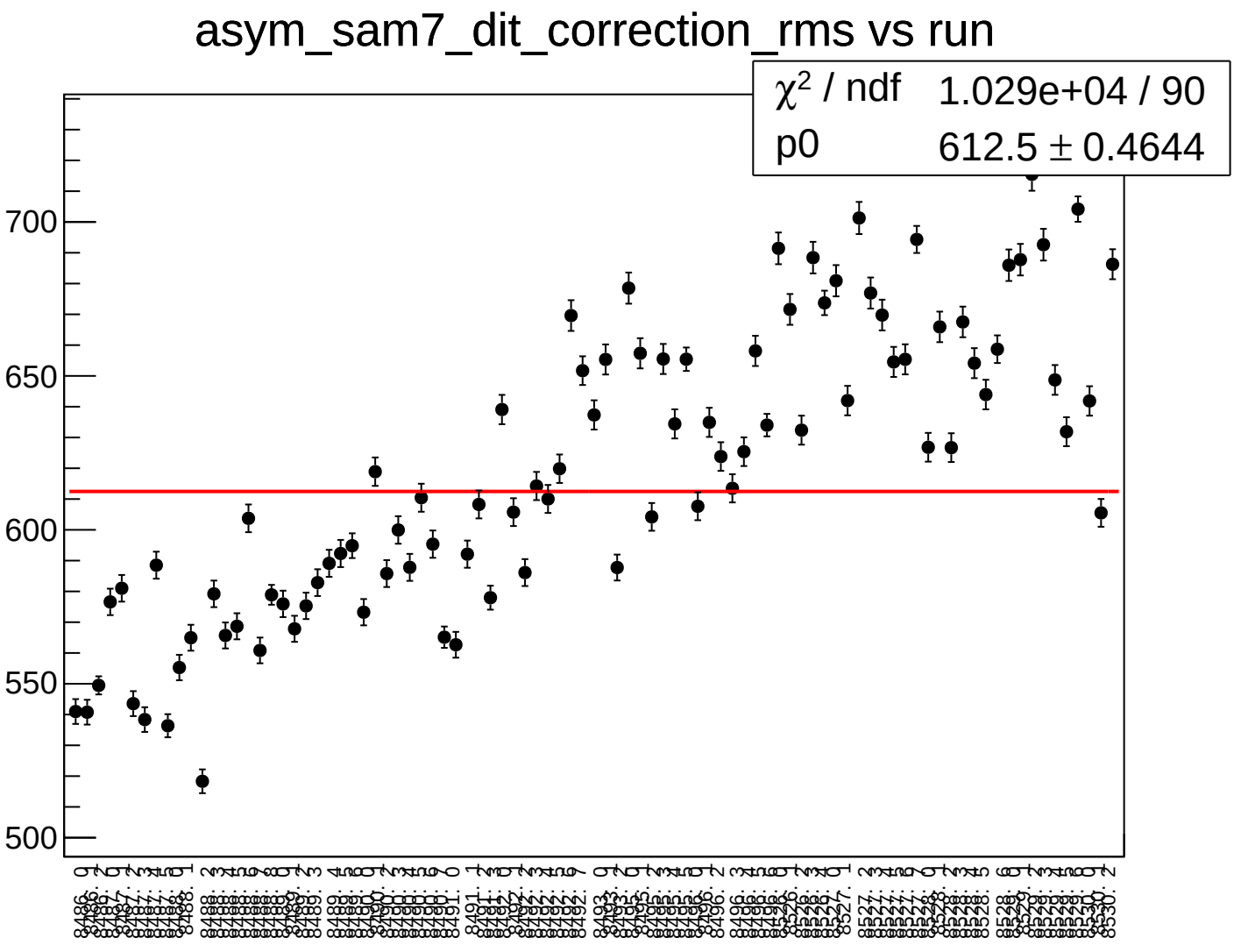

dit_asym_sam7_mean vs run
χ² / ndf 90.38 / 90
p0 173.1 ± 87.91
pull
Entries 91
Mean −9.409
Std Dev 0

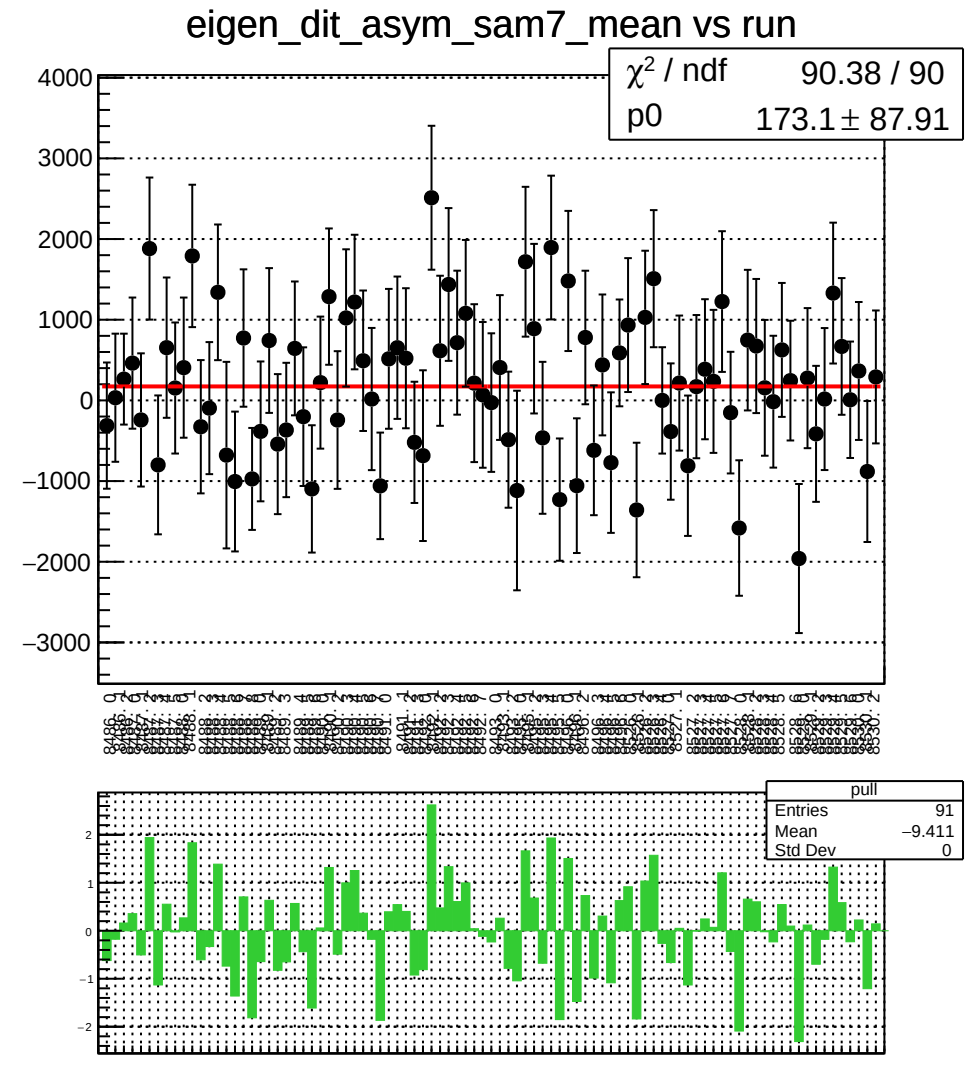

pull1D
Entries 91
Mean 0.01832
Std Dev 0.9964

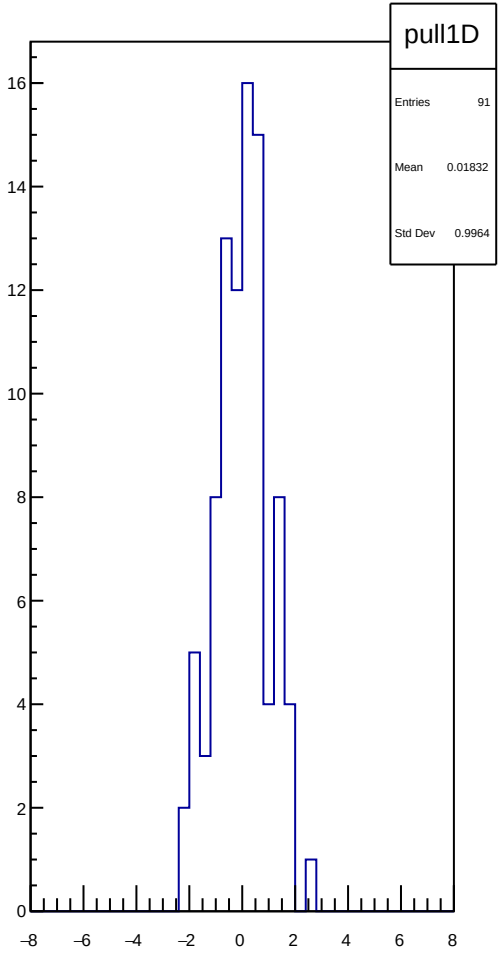

dit_asym_sam7_rms vs run
χ^2 / ndf 7427 / 90
p0 82.04 ± 0.06216
120
110
100
90
80
70

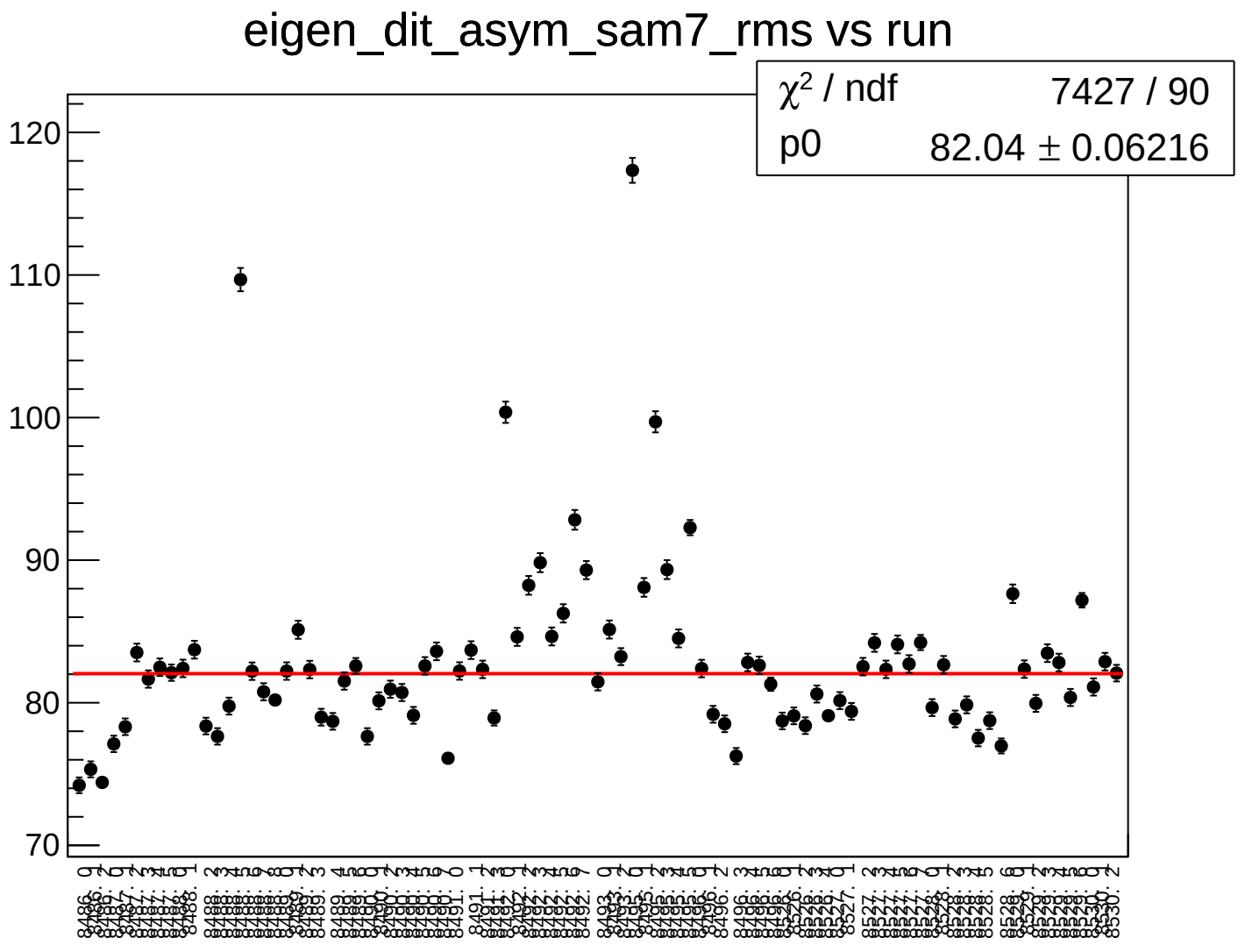

asym_sam7_dit_correction_mean vs run
χ² / ndf 86.23 / 90
p0 −617.1± 656.8
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 84.18
Std Dev 0
2
1
0
−1
−2

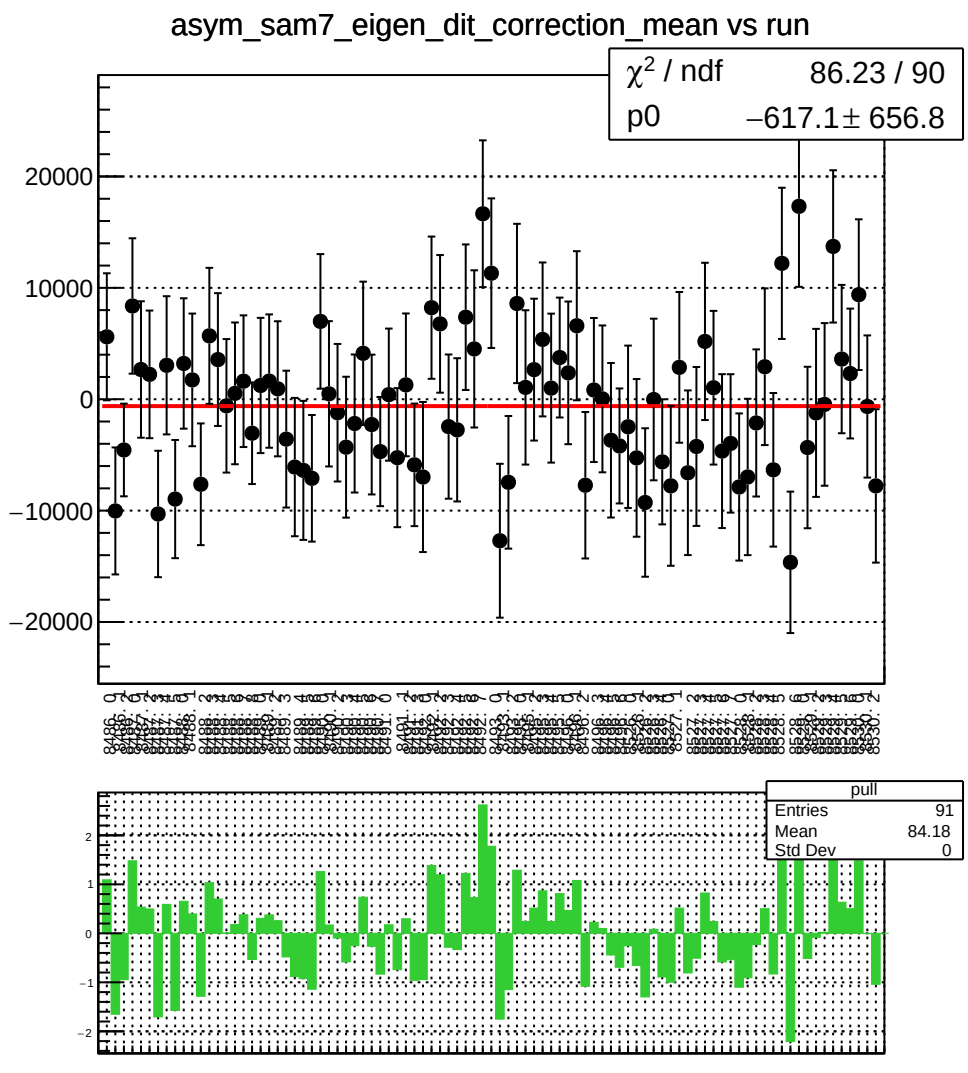

pull1D
Entries 91
Mean 0.02372
Std Dev 0.9731
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

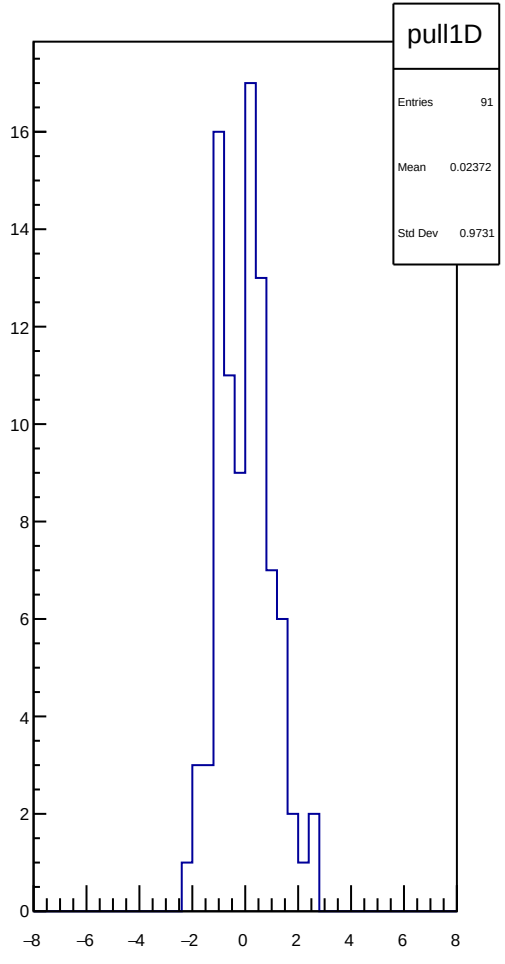

asym_sam7_dit_correction_rms vs run
χ² / ndf 1.029e+04 / 90
p0 612.5 ± 0.4644
700
650
600
550
500

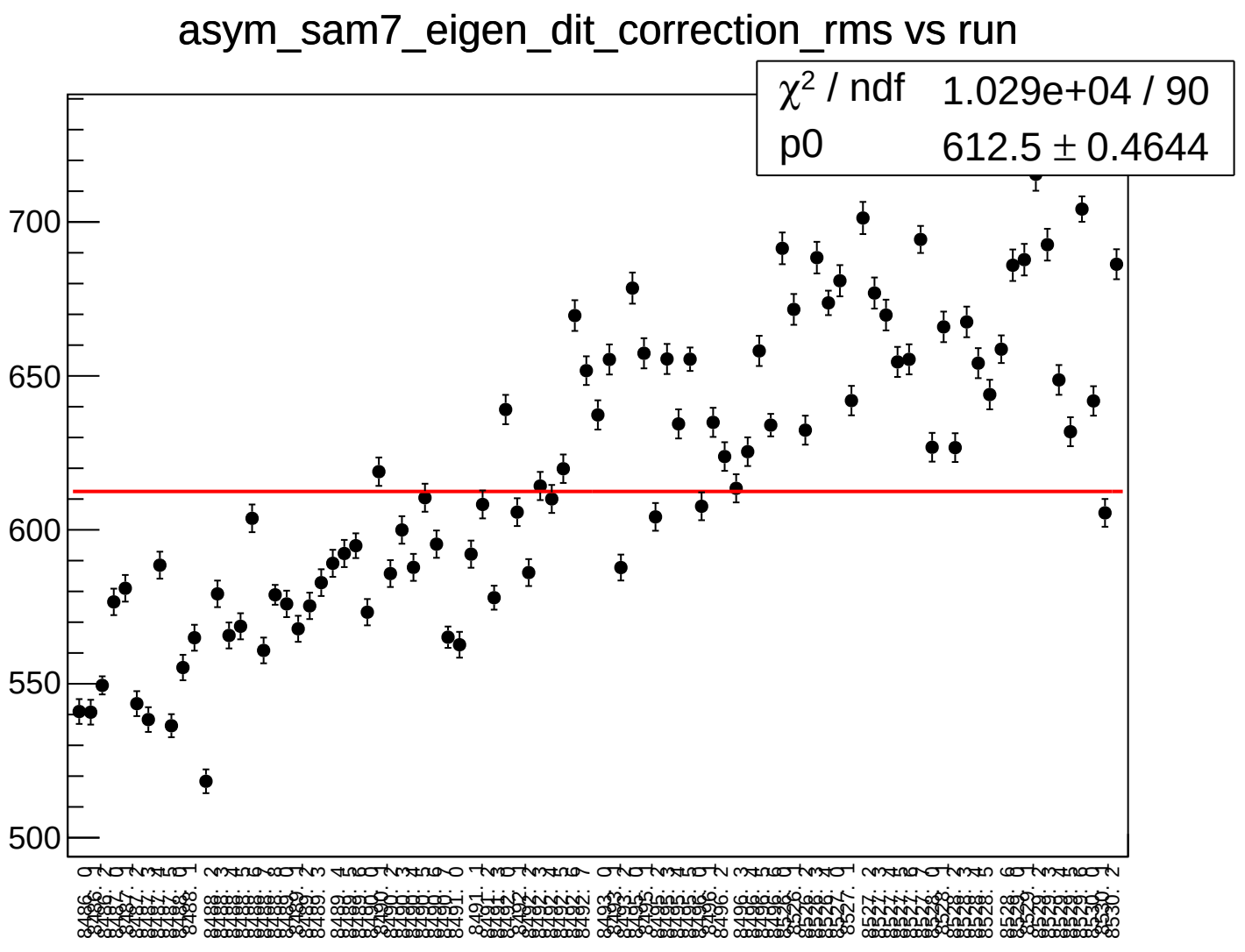

eigen_dit_asym_sam7_mean vs run
χ² / ndf 90.38 / 90
p0 173.1 ± 87.91
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 91
Mean −9.411
Std Dev 0
2
1
0
−1
−2

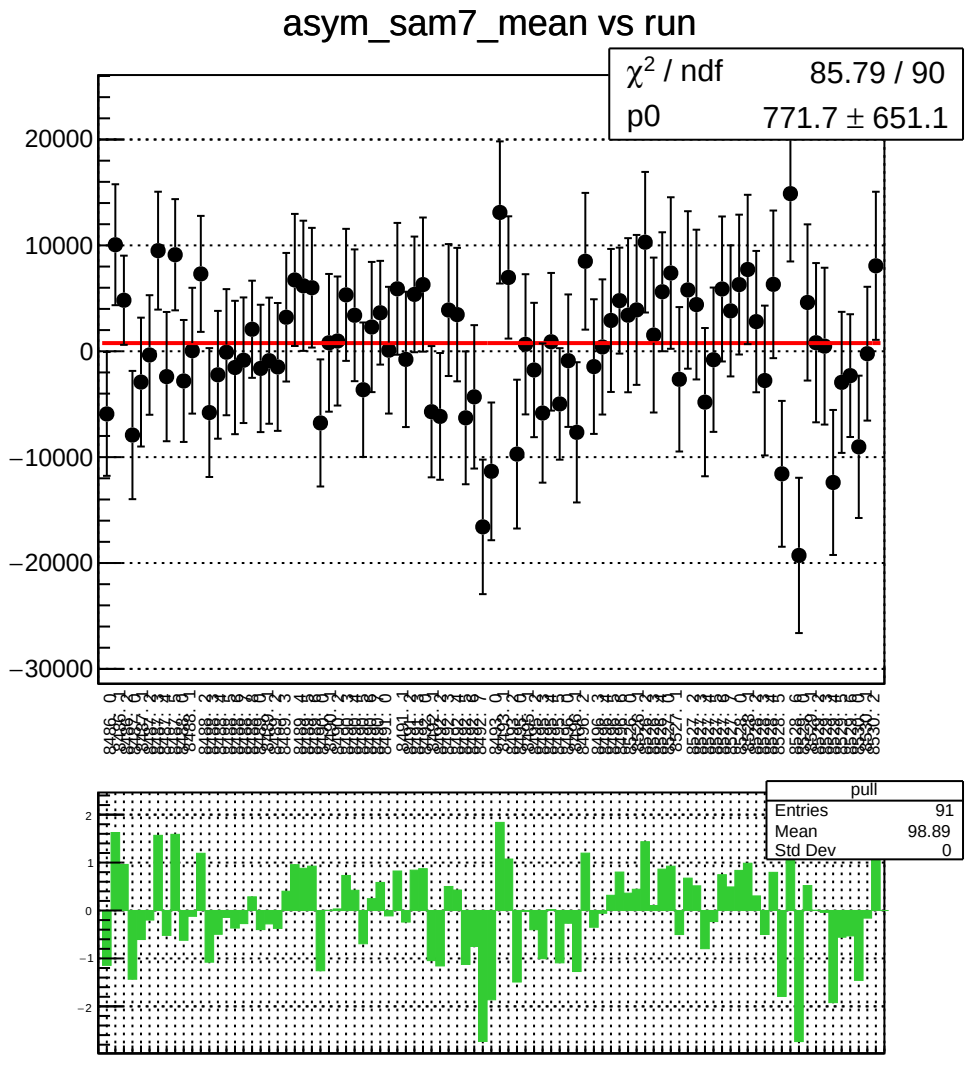

pull1D
Entries 91
Mean 0.01832
Std Dev 0.9964
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

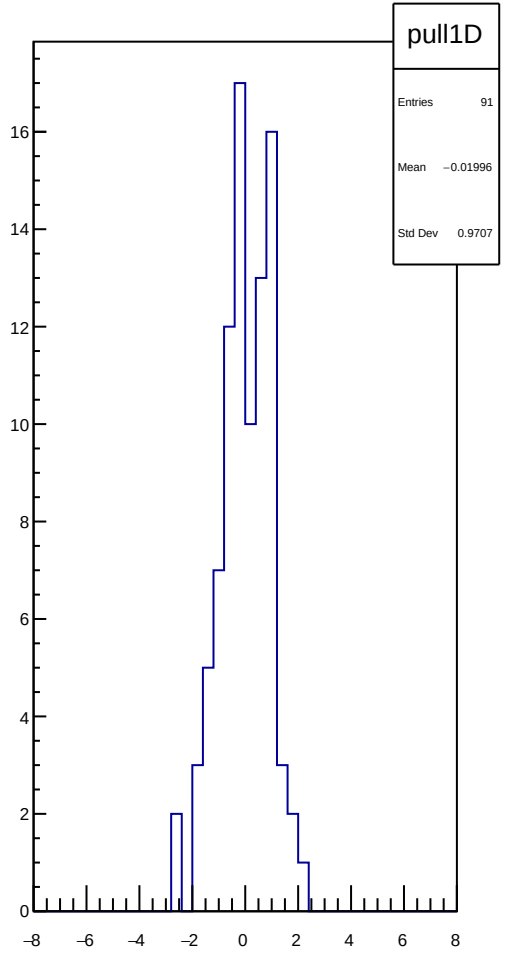

eigen_dit_asym_sam7_rms vs run
χ² / ndf 7427 / 90
p0 82.04 ± 0.06216
120
110
100
90
80
70

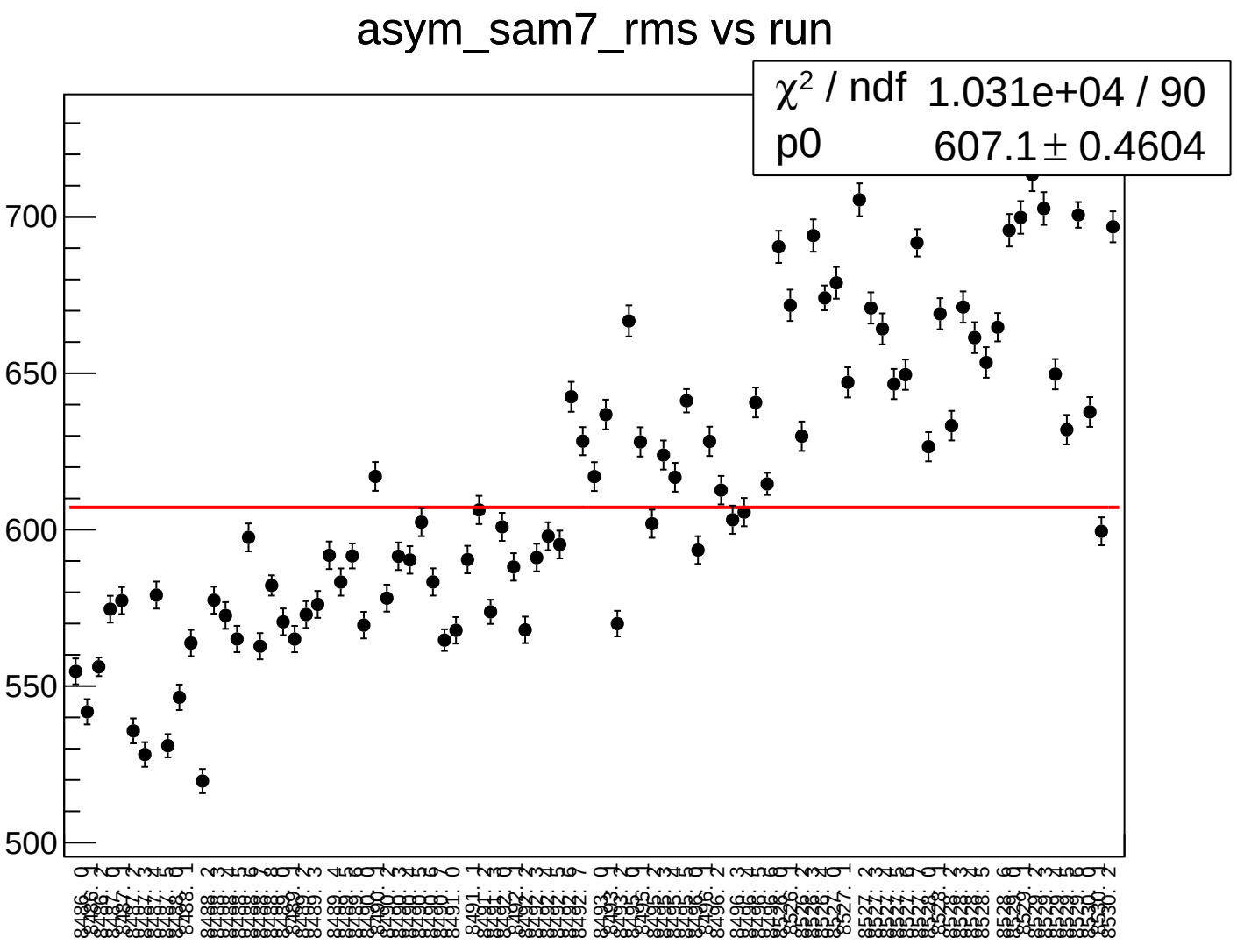

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 86.23 / 90
p0 −617.1± 656.8
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 84.18
Std Dev 0
2
1
0
−1
−2

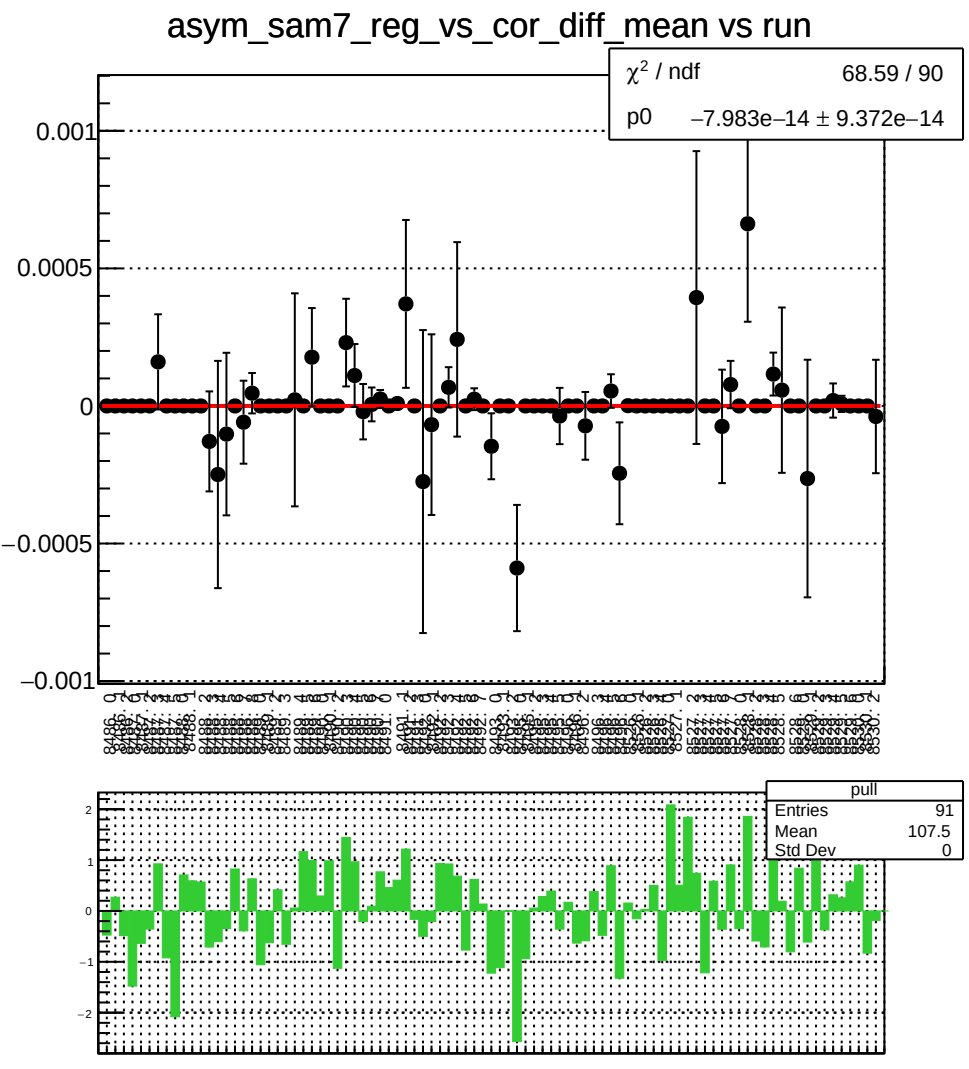

pull1D
Entries 91
Mean 0.02372
Std Dev 0.9731
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

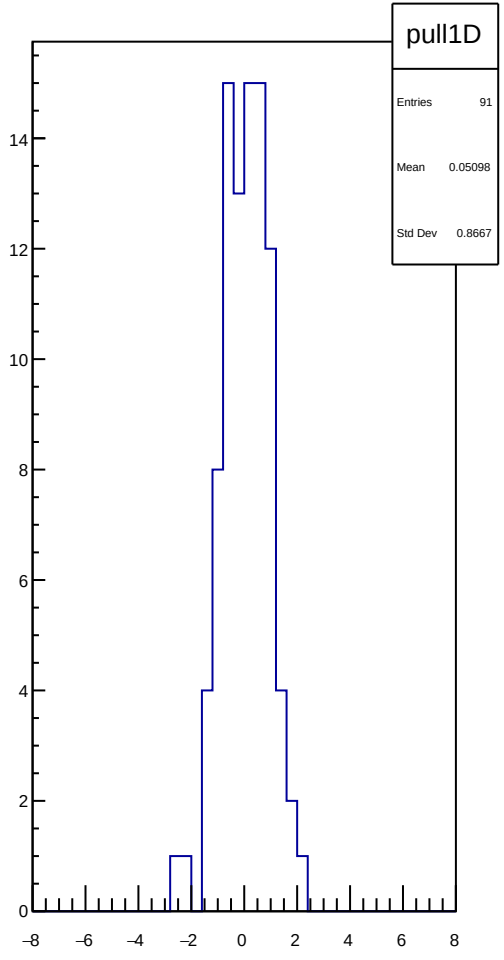

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 1.029e+04 / 90
p0 612.5 ± 0.4644
700
650
600
550
500

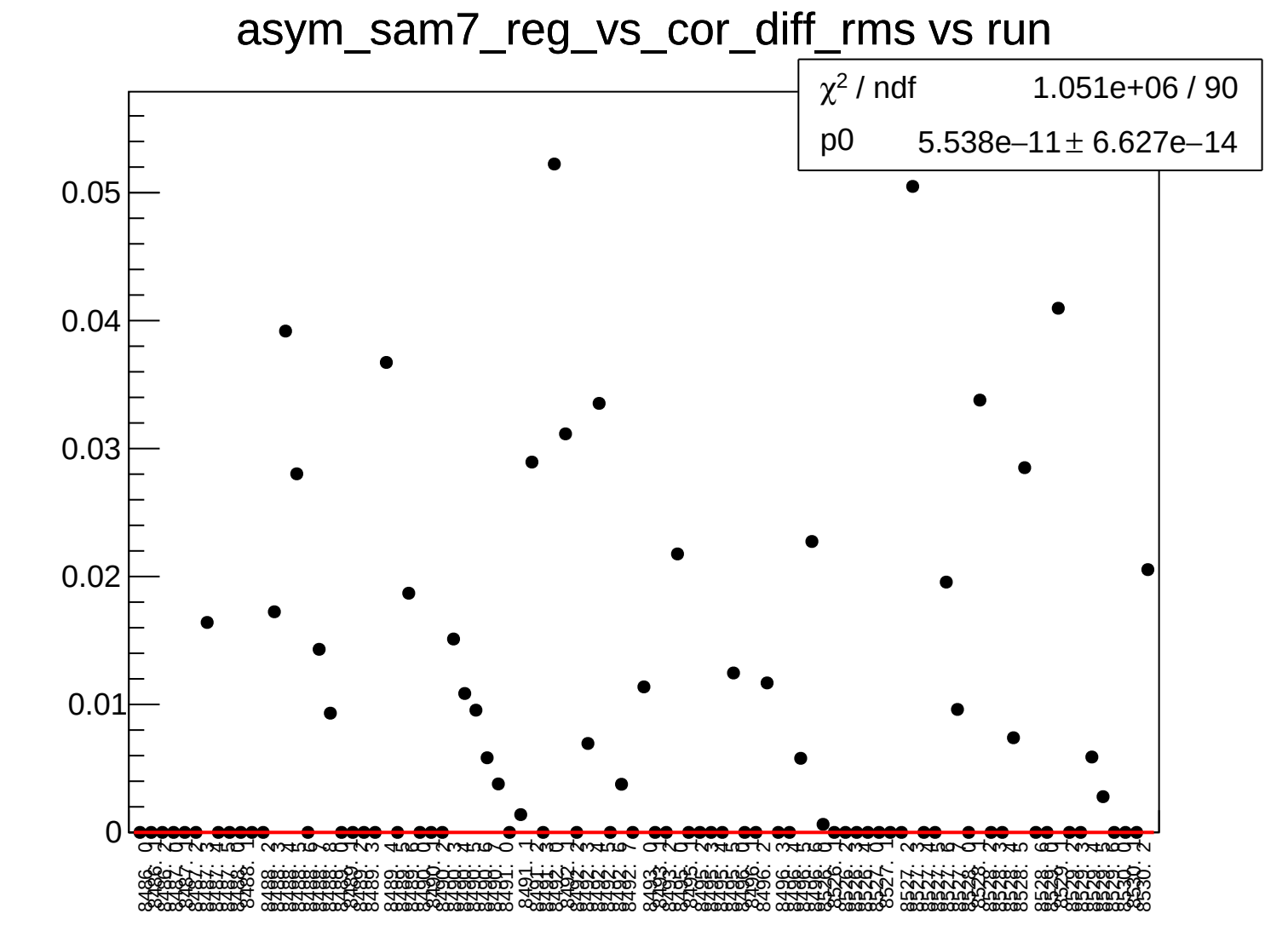

asym_sam7_mean vs run
χ² / ndf 85.79 / 90
p0 771.7 ± 651.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 98.89
Std Dev 0
2
1
0
−1
−2

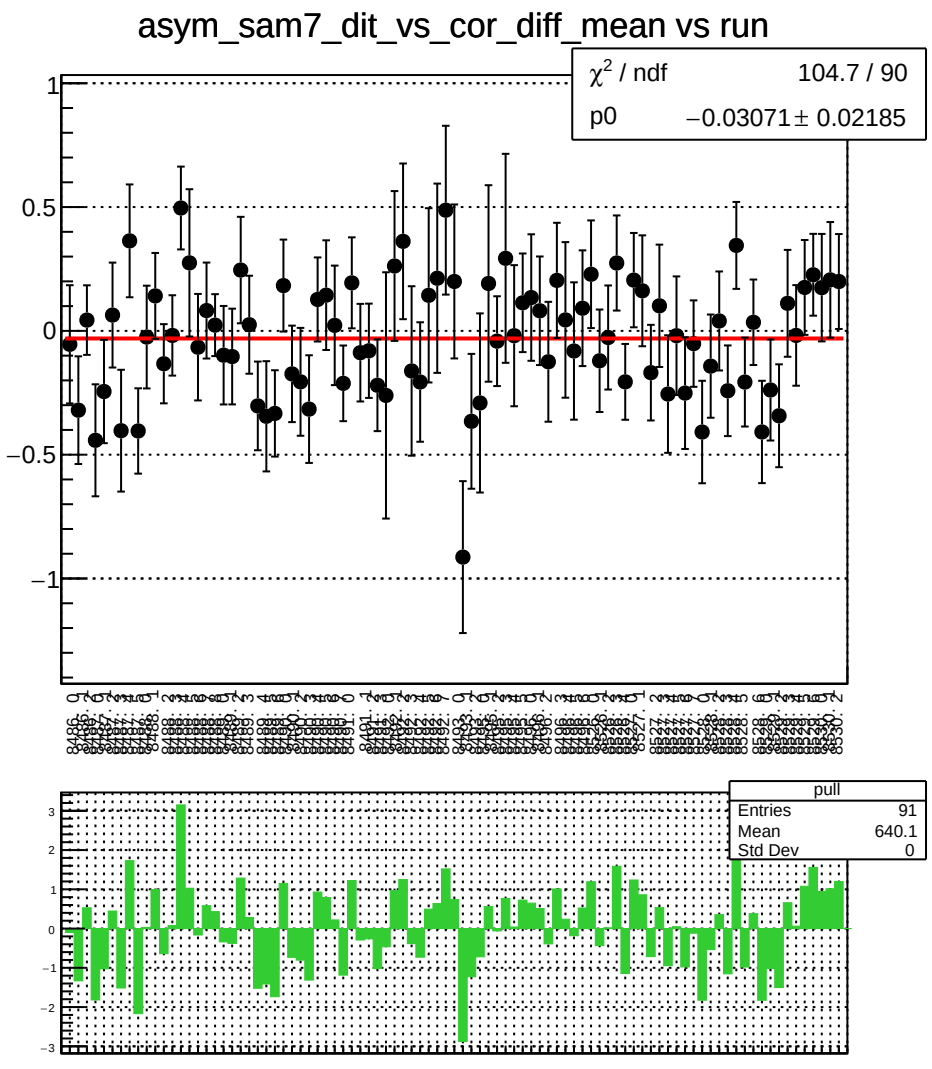

pull1D
Entries 91
Mean −0.01996
Std Dev 0.9707
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

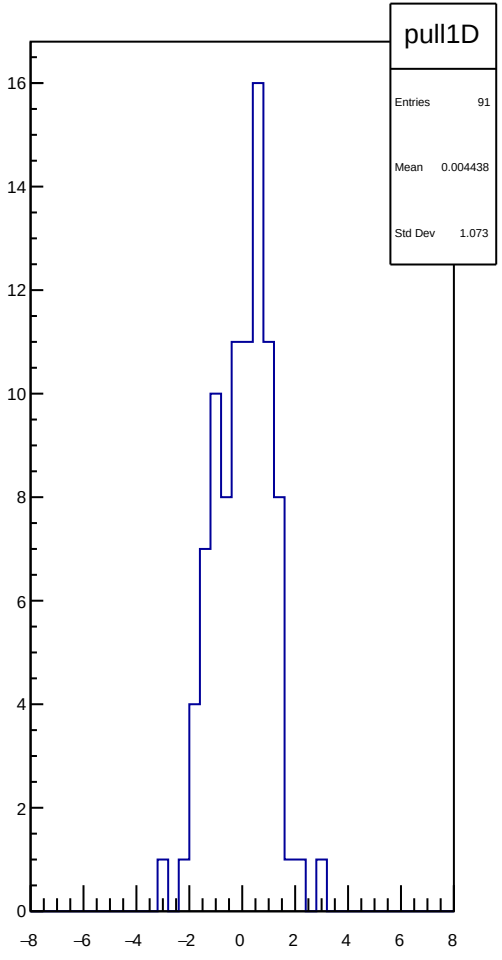

asym_sam7_rms vs run
χ² / ndf 1.031e+04 / 90
p0 607.1 ± 0.4604
700
650
600
550
500

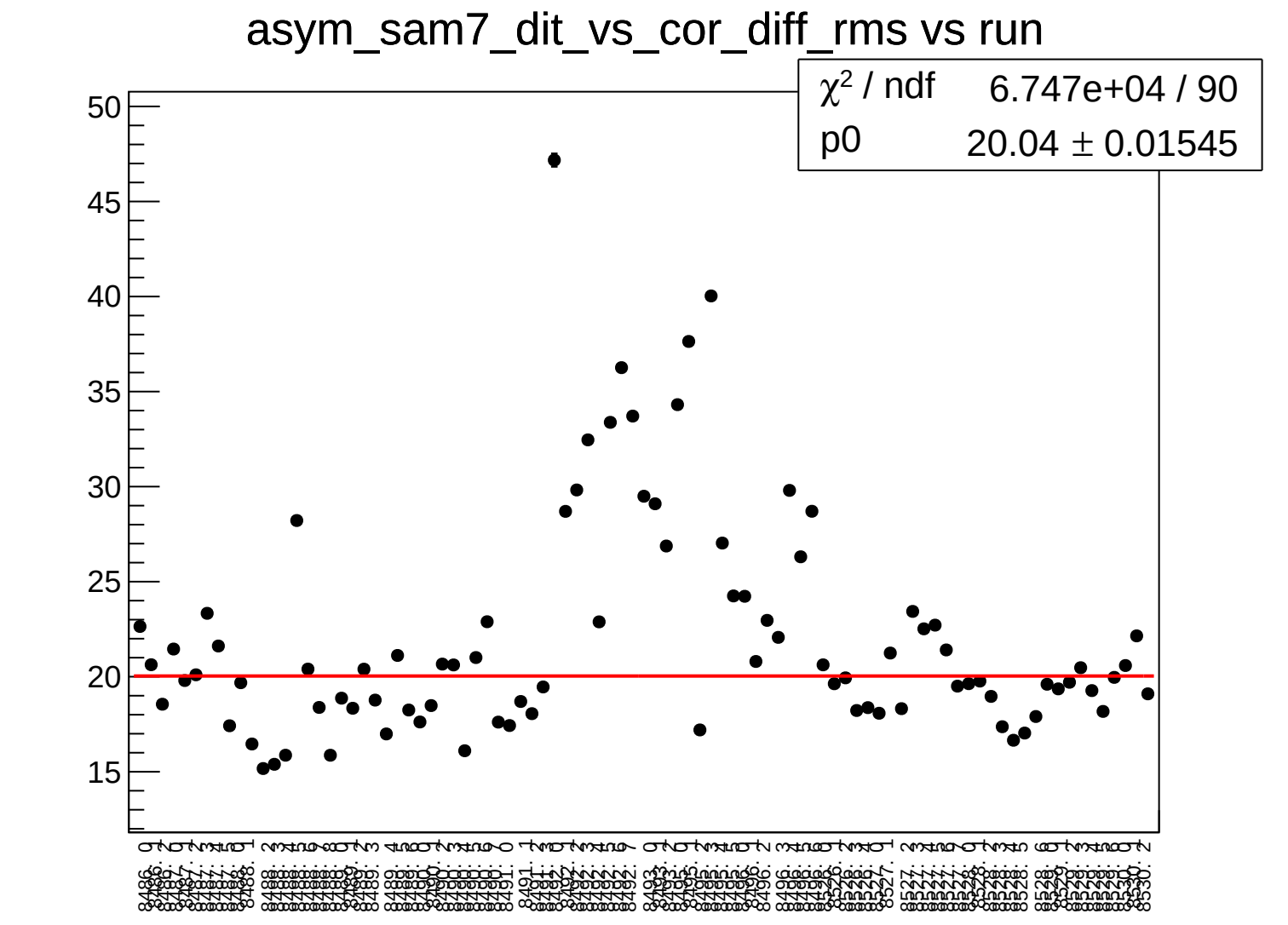

asym_sam7_reg_vs_cor_diff_mean vs run
χ² / ndf 68.59 / 90
p0 −7.983e−14 ± 9.372e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 91
Mean 107.5
Std Dev 0
2
1
0
−1
−2

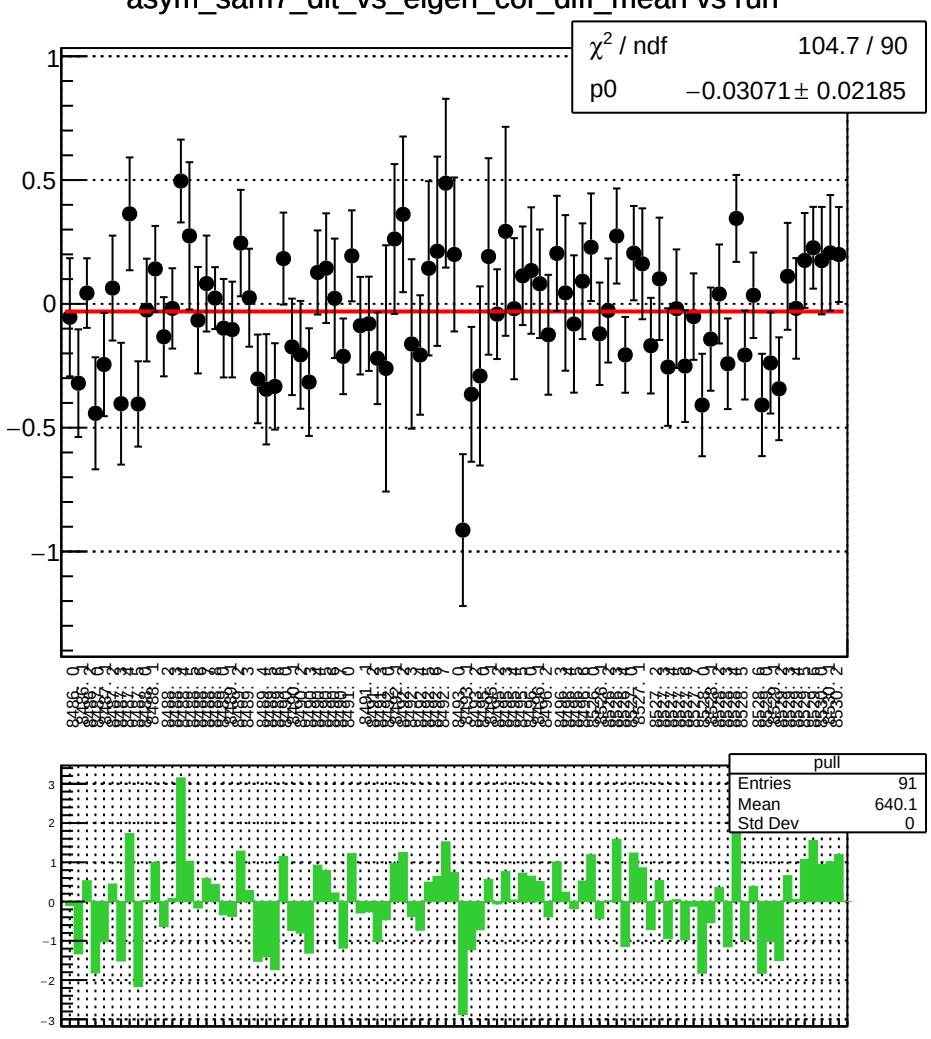

pull1D
Entries 91
Mean 0.05098
Std Dev 0.8667
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

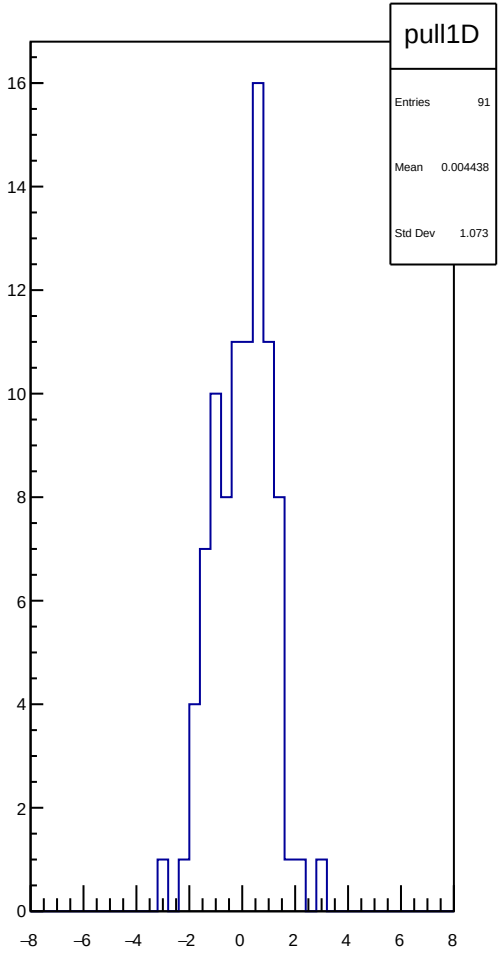

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 1.051e+06 / 90
p0 5.538e−11 ± 6.627e−14
0.05
0.04
0.03
0.02
0.01
0

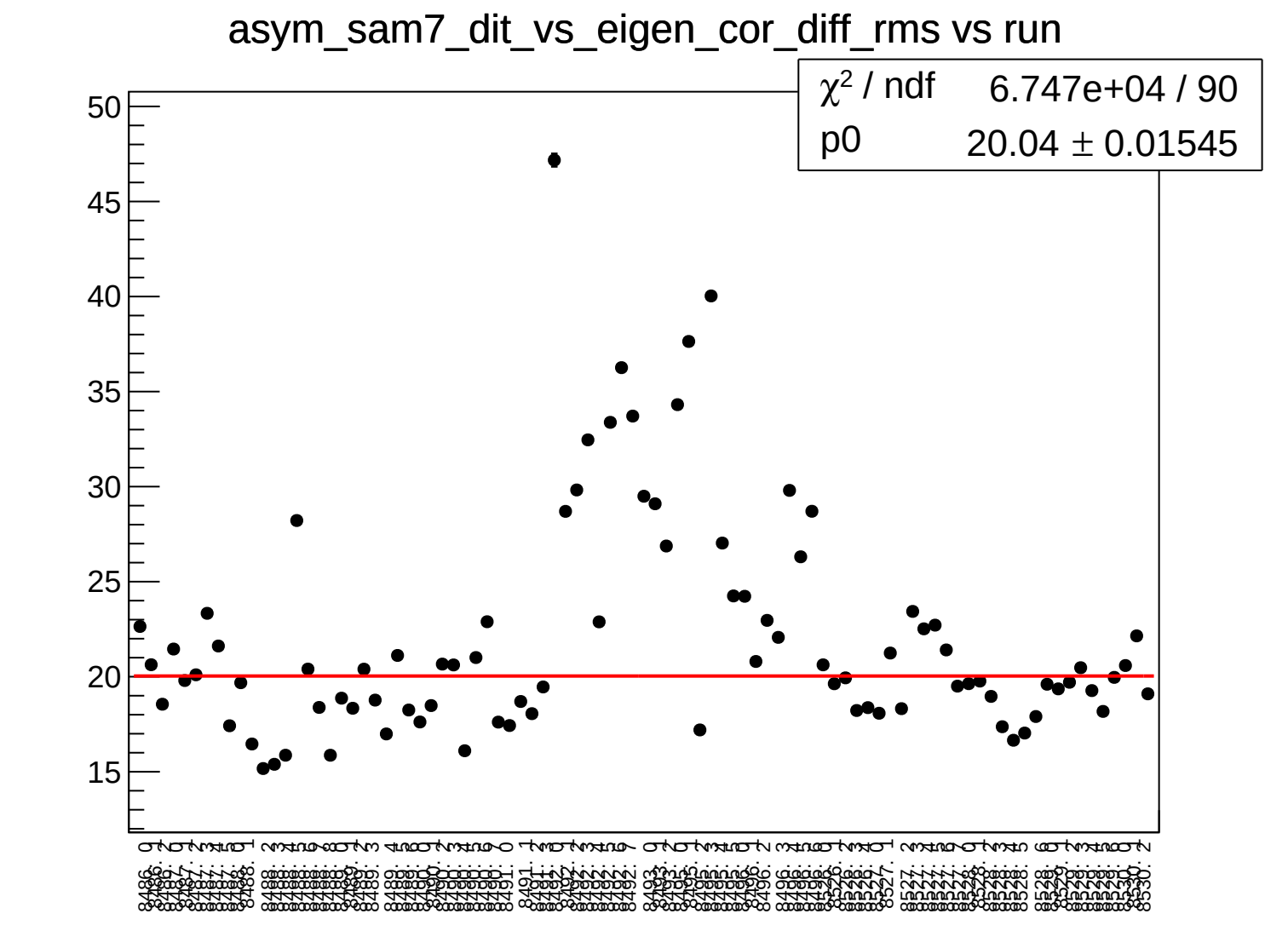

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 104.7 / 90
p0 −0.03071 ± 0.02185
pull
Entries 91
Mean 640.1
Std Dev 0

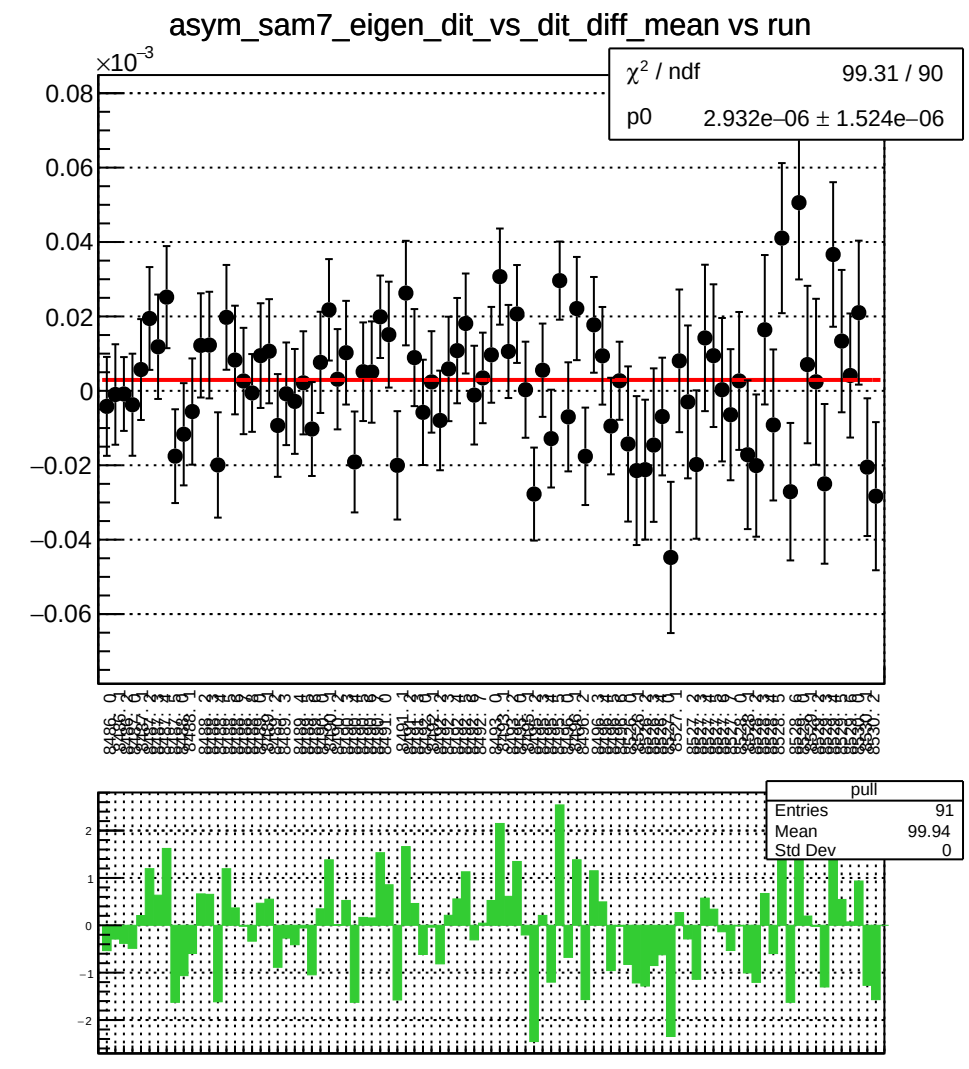

pull1D
Entries 91
Mean 0.004438
Std Dev 1.073

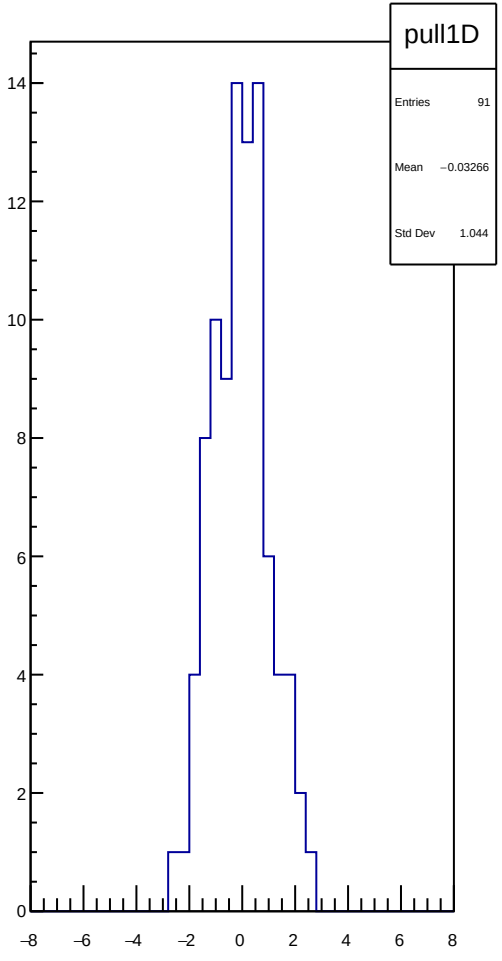

asym_sam7_dit_vs_cor_diff_rms vs run
χ² / ndf 6.747e+04 / 90
p0 20.04 ± 0.01545
50
45
40
35
30
25
20
15

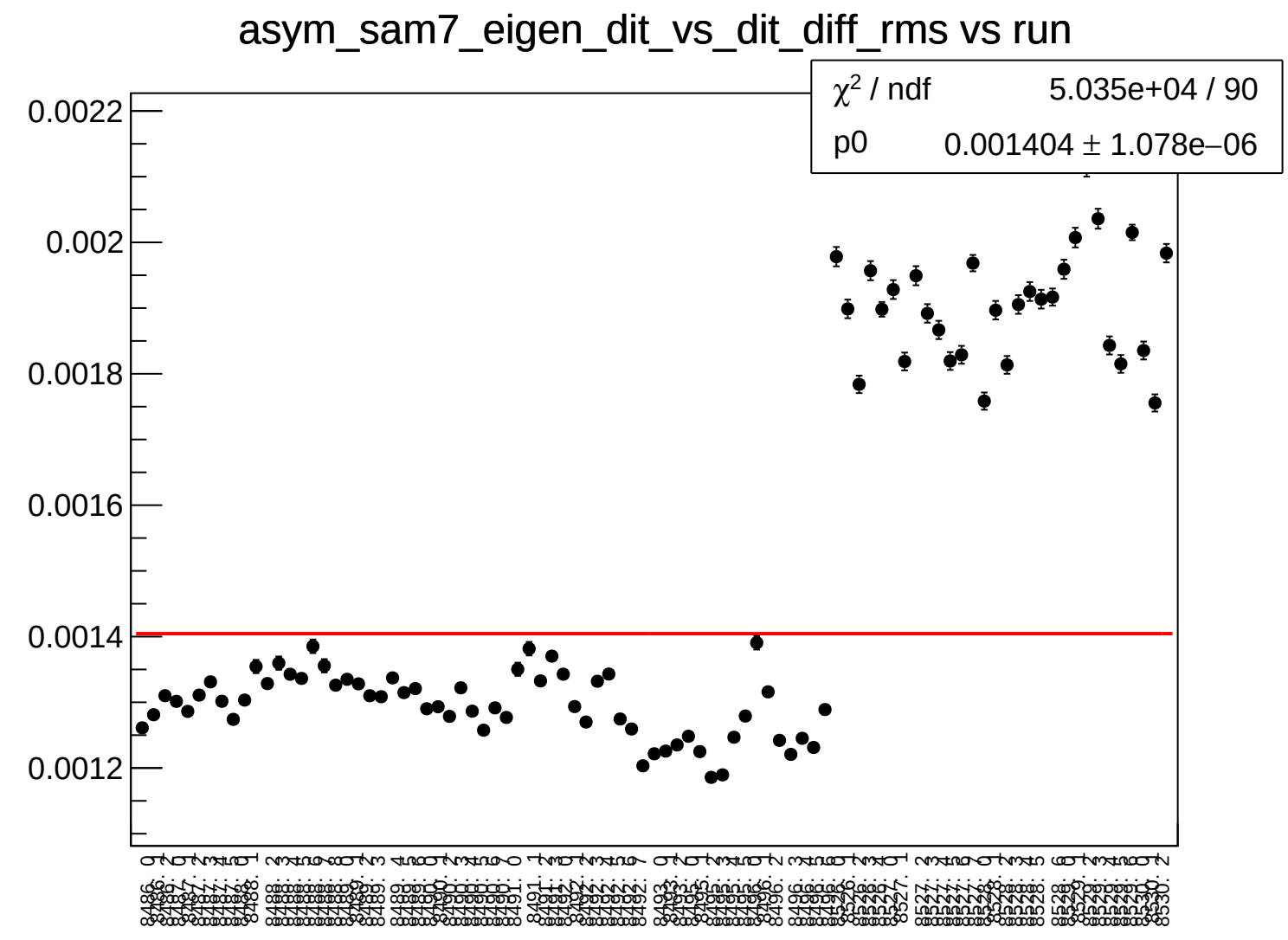

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.7 / 90
p0 −0.03071 ± 0.02185
pull
Entries 91
Mean 640.1
Std Dev 0

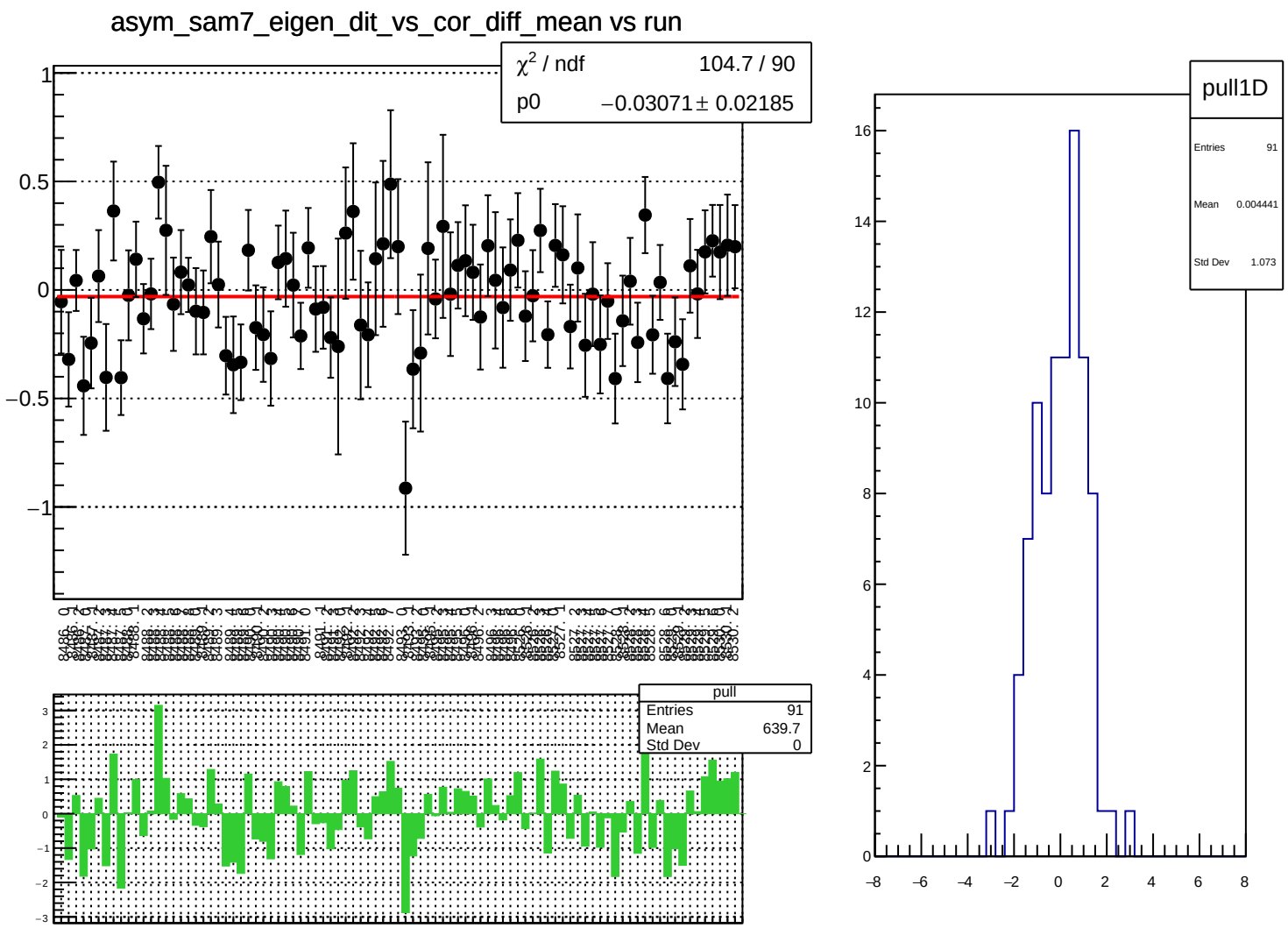

pull1D
Entries 91
Mean 0.004438
Std Dev 1.073

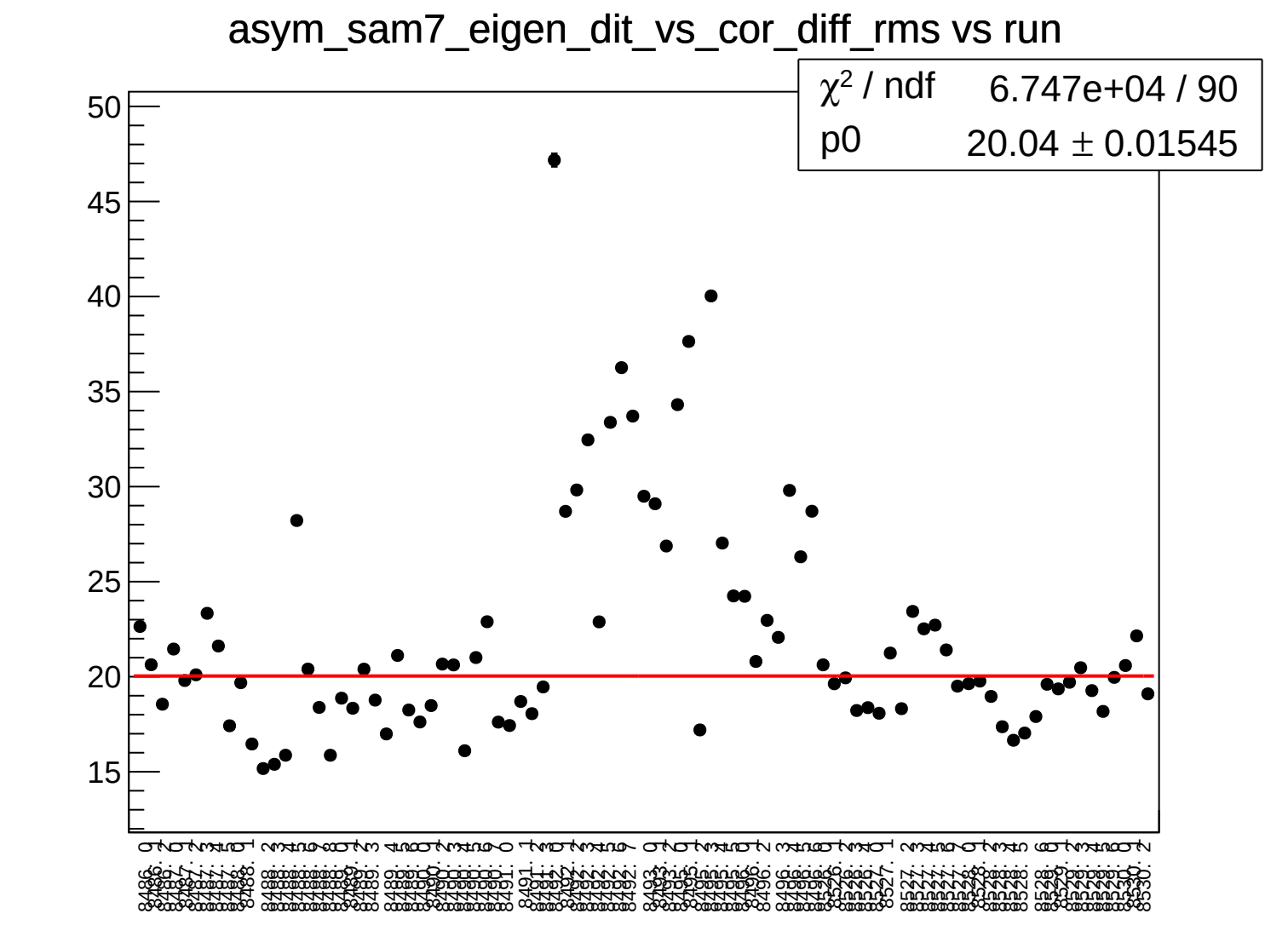

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.747e+04 / 90
p0 20.04 ± 0.01545
50
45
40
35
30
25
20
15

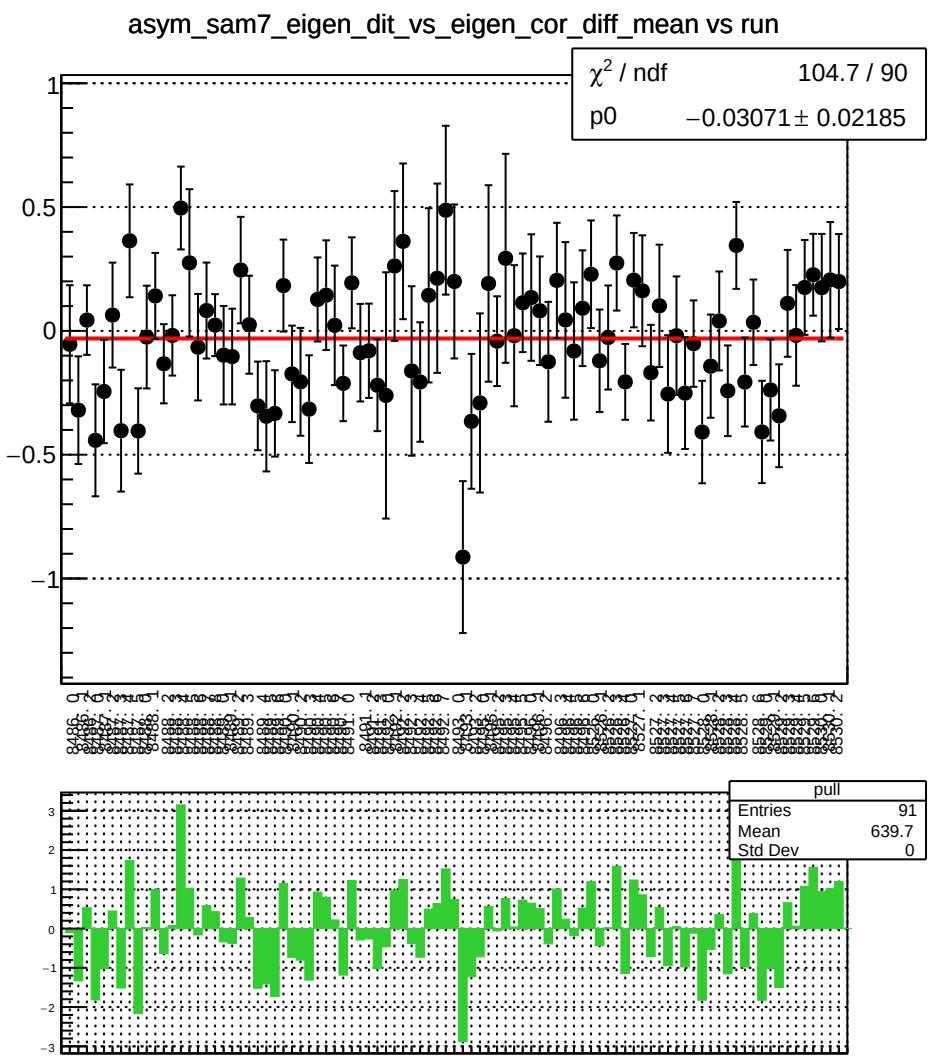

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.31 / 90
p0 2.932e−06 ± 1.524e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 91
Mean 99.94
Std Dev 0
2
1
0
−1
−2

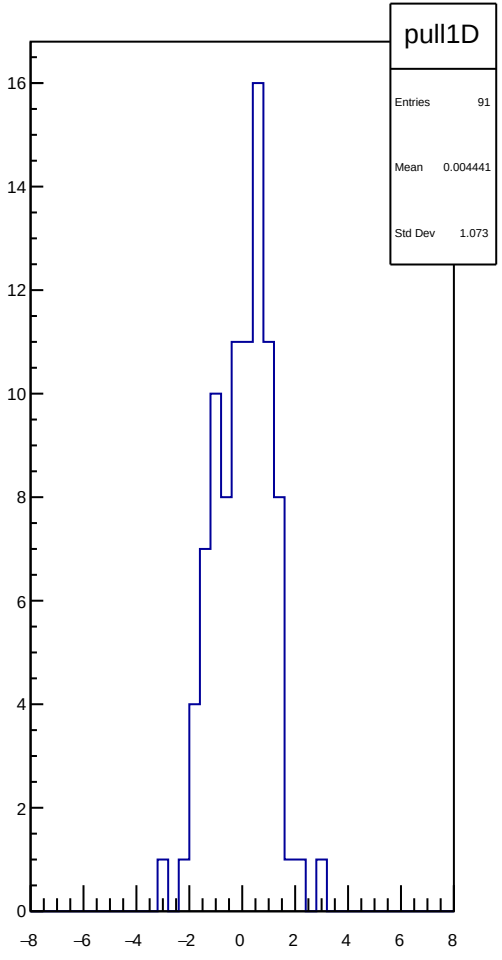

pull1D
Entries 91
Mean −0.03266
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

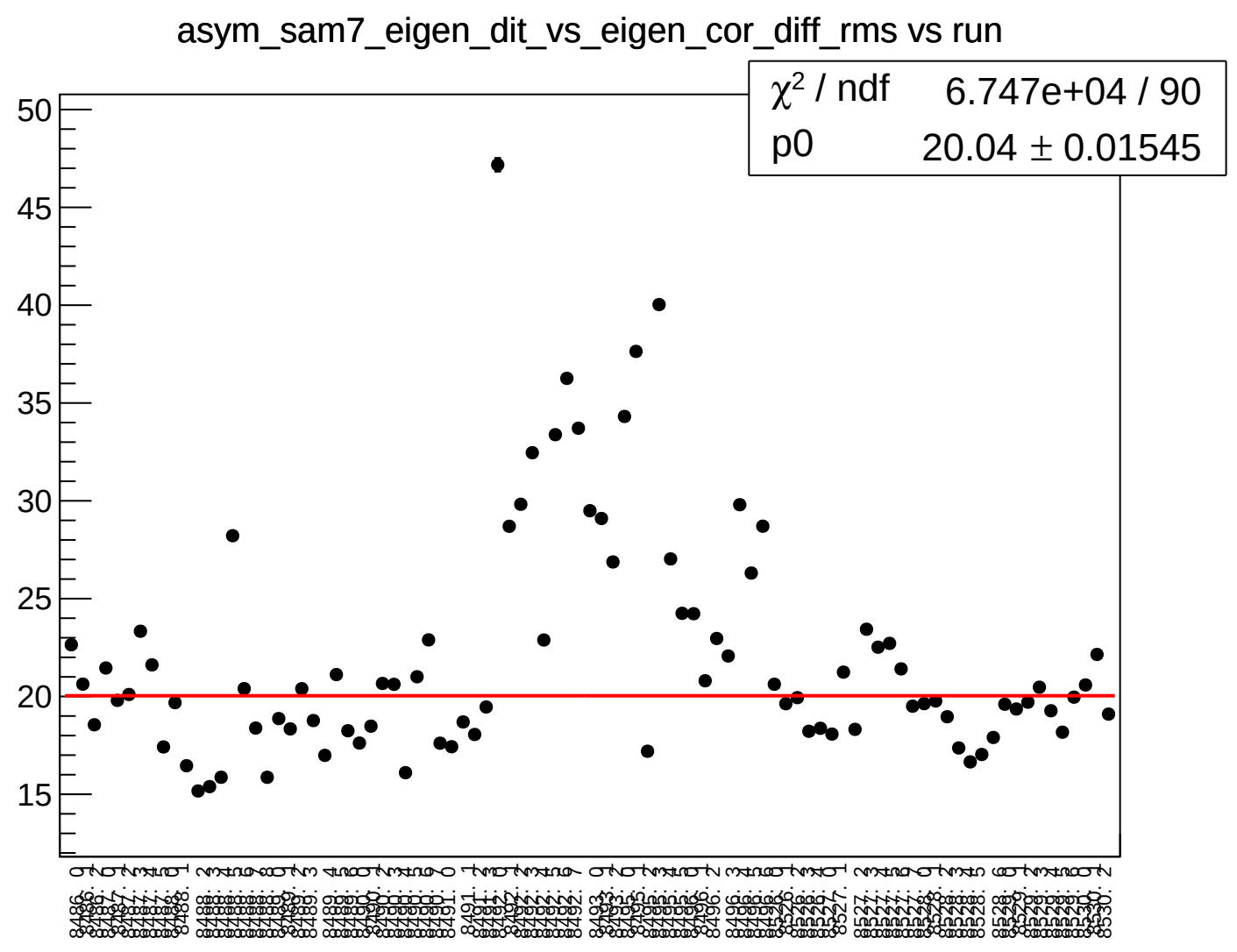

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.035e+04 / 90
p0 0.001404 ± 1.078e−06
0.0022
0.002
0.0018
0.0016
0.0014
0.0012

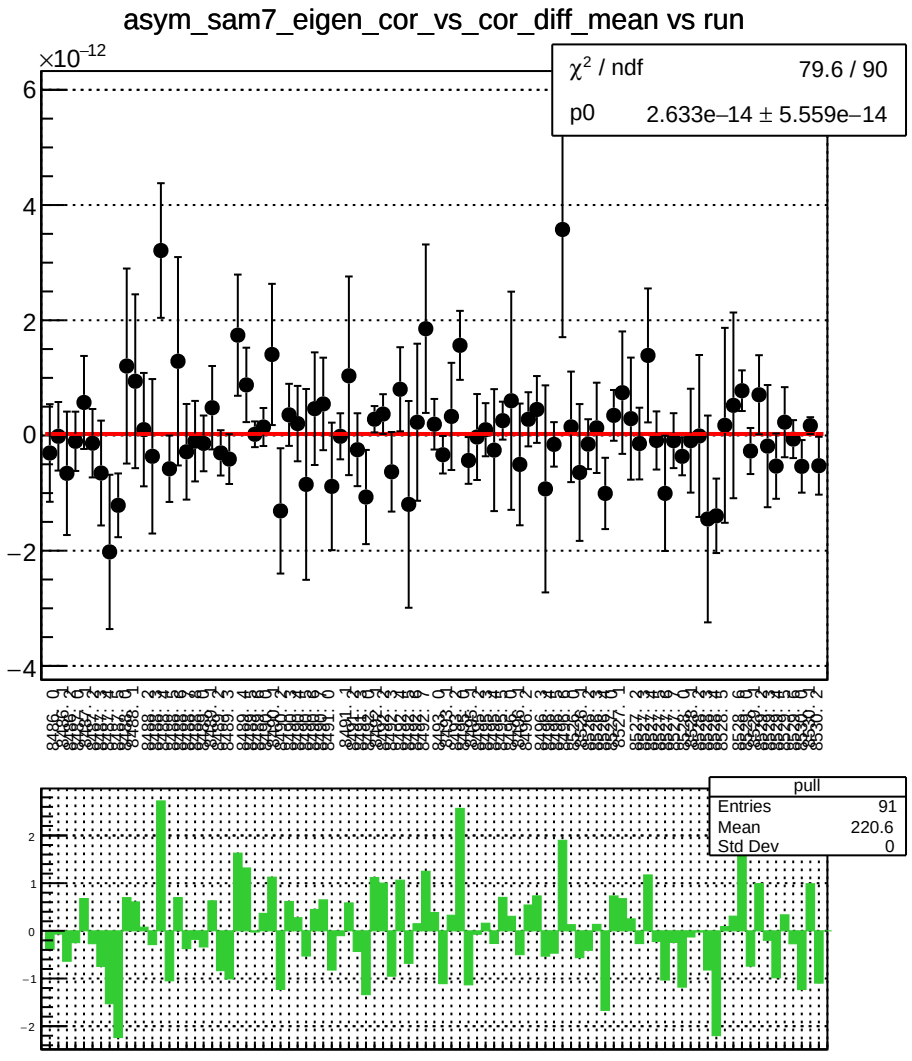

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.7 / 90
p0 −0.03071 ± 0.02185
pull
Entries 91
Mean 639.7
Std Dev 0
pull1D
Entries 91
Mean 0.004441
Std Dev 1.073

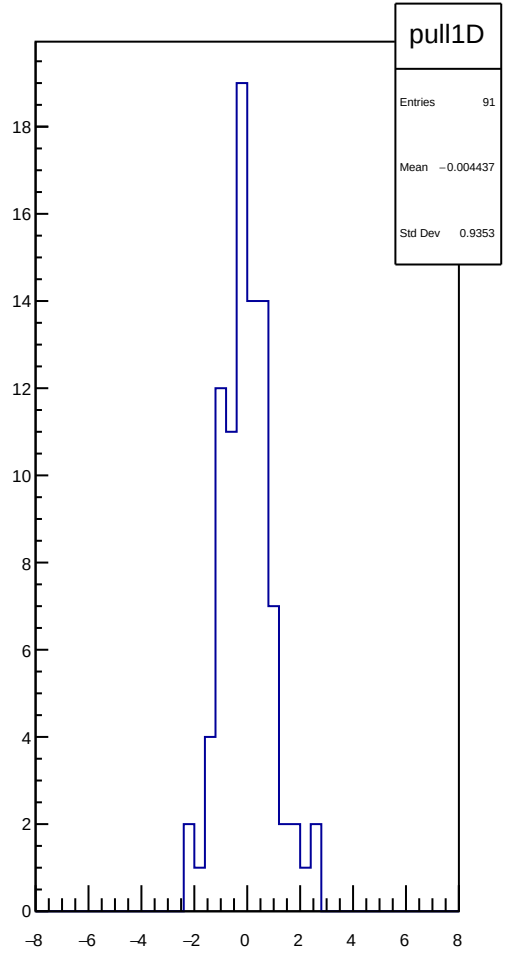

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.747e+04 / 90
p0 20.04 ± 0.01545
50
45
40
35
30
25
20
15

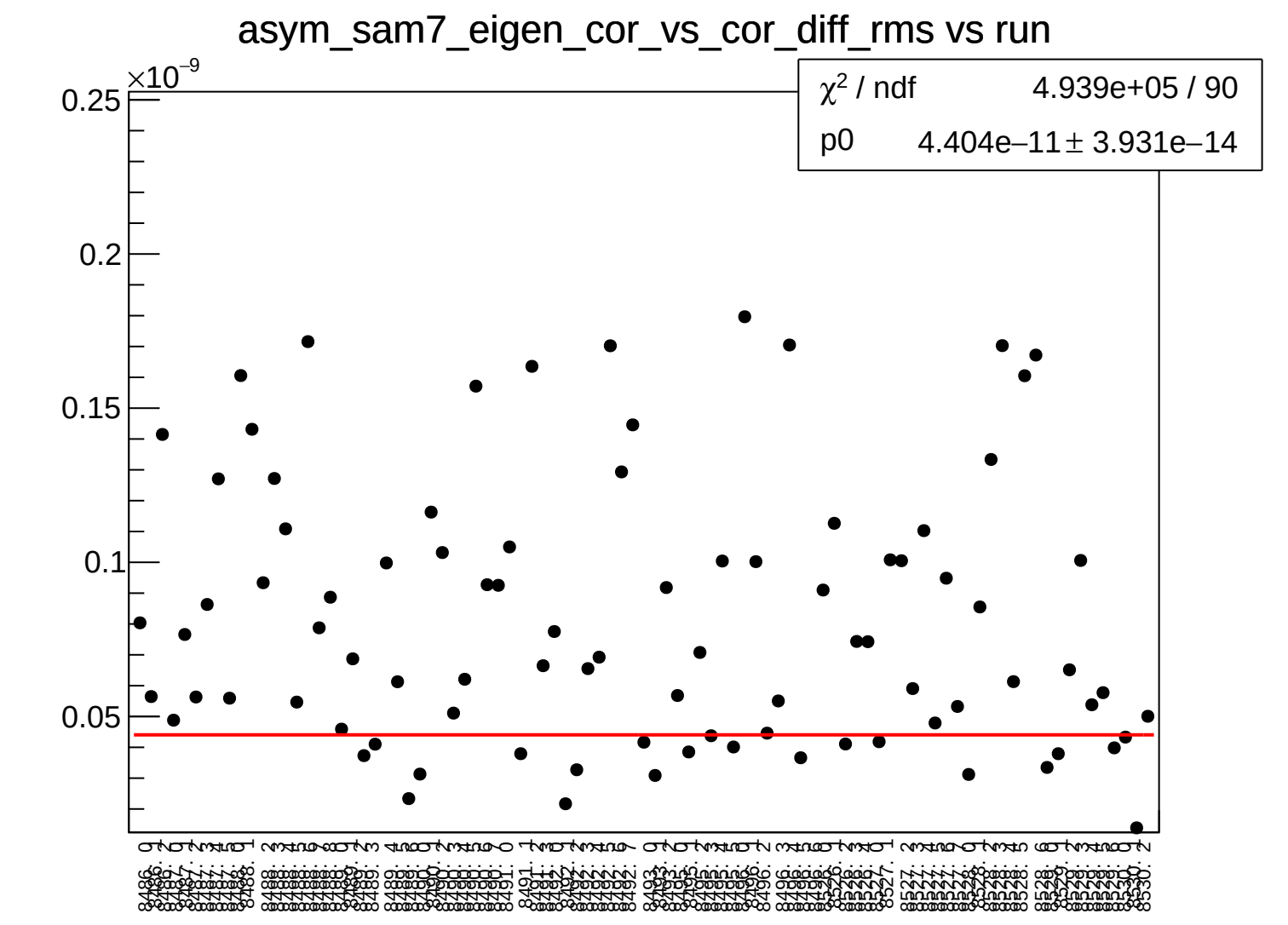

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.7 / 90
p0 −0.03071 ± 0.02185
pull
Entries 91
Mean 639.7
Std Dev 0

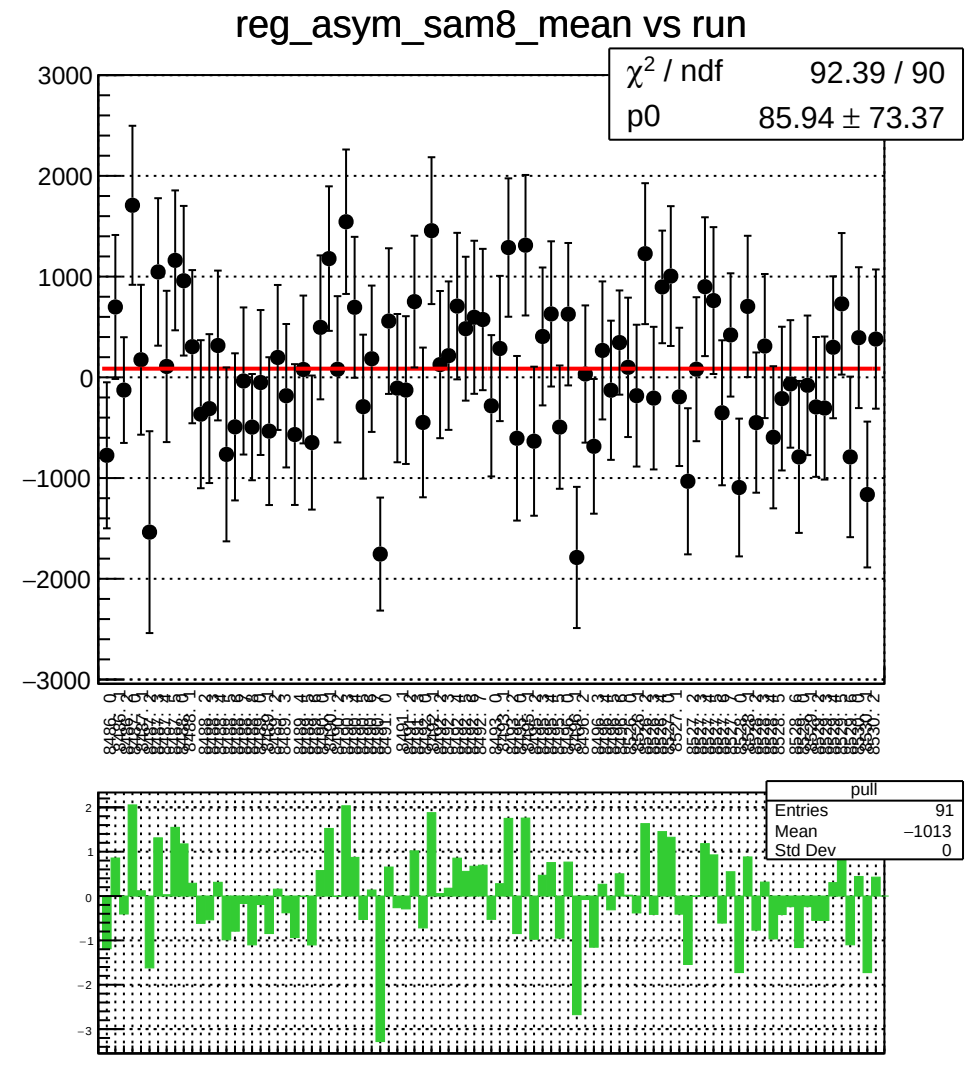

pull1D
Entries 91
Mean 0.004441
Std Dev 1.073

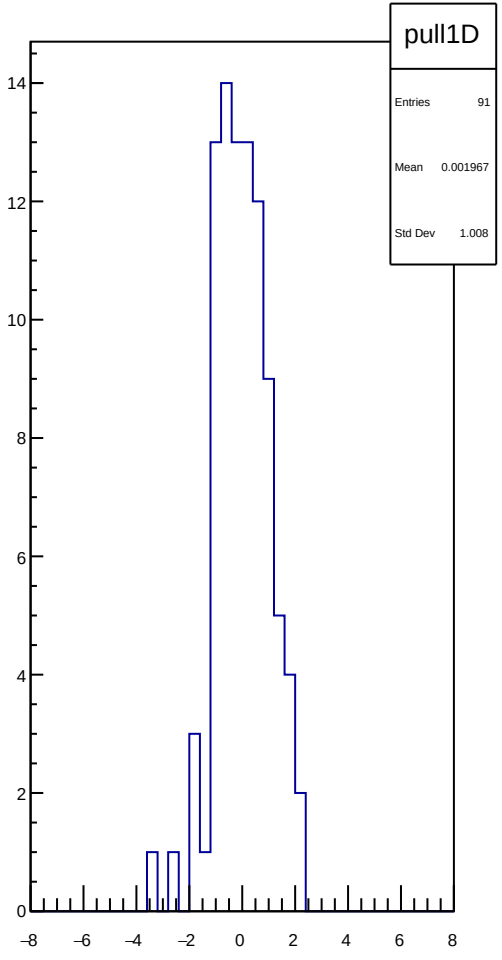

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.747e+04 / 90
p0 20.04 ± 0.01545
50
45
40
35
30
25
20
15

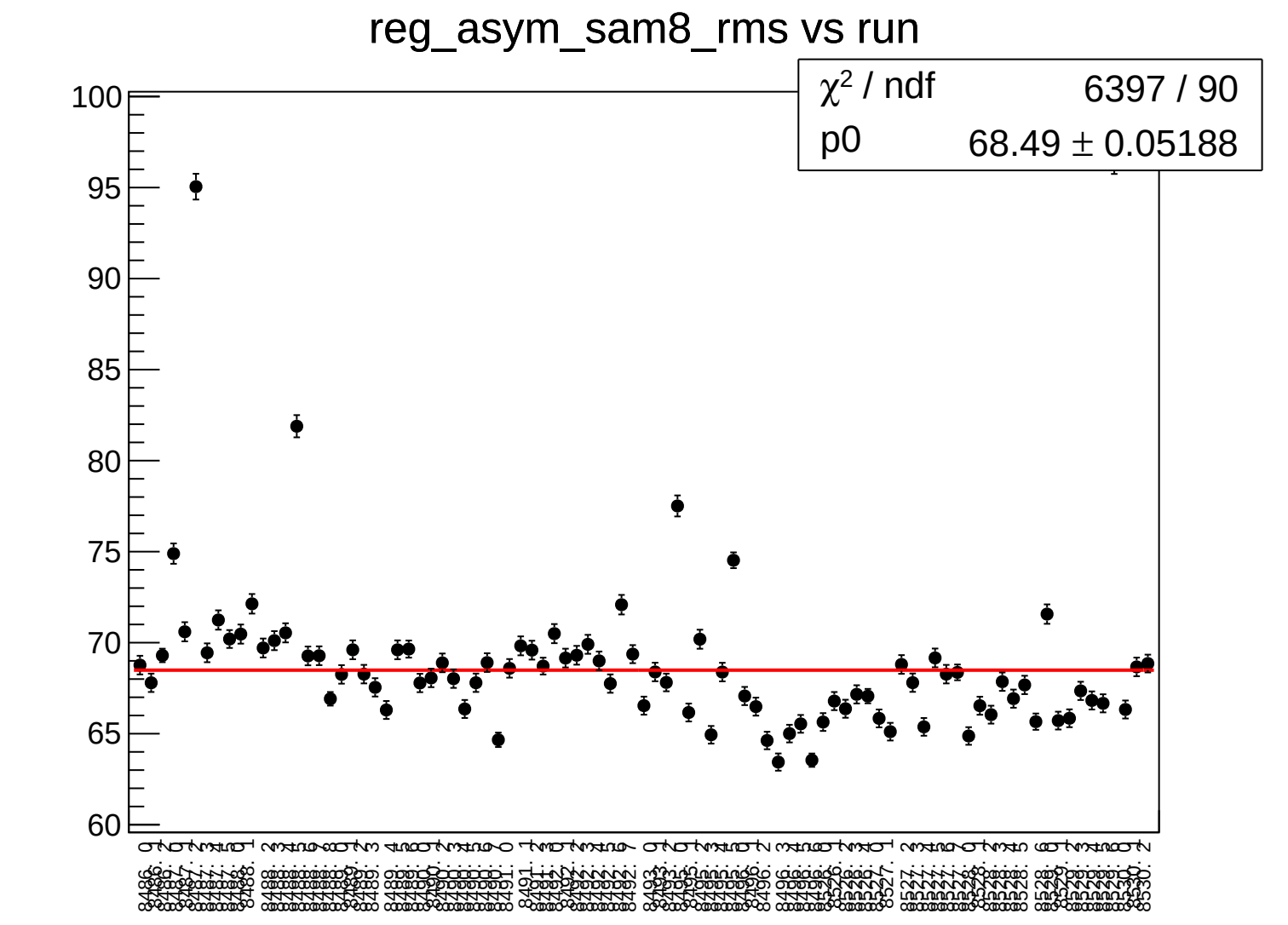

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.6 / 90
p0 2.633e−14 ± 5.559e−14
pull
Entries 91
Mean 220.6
Std Dev 0

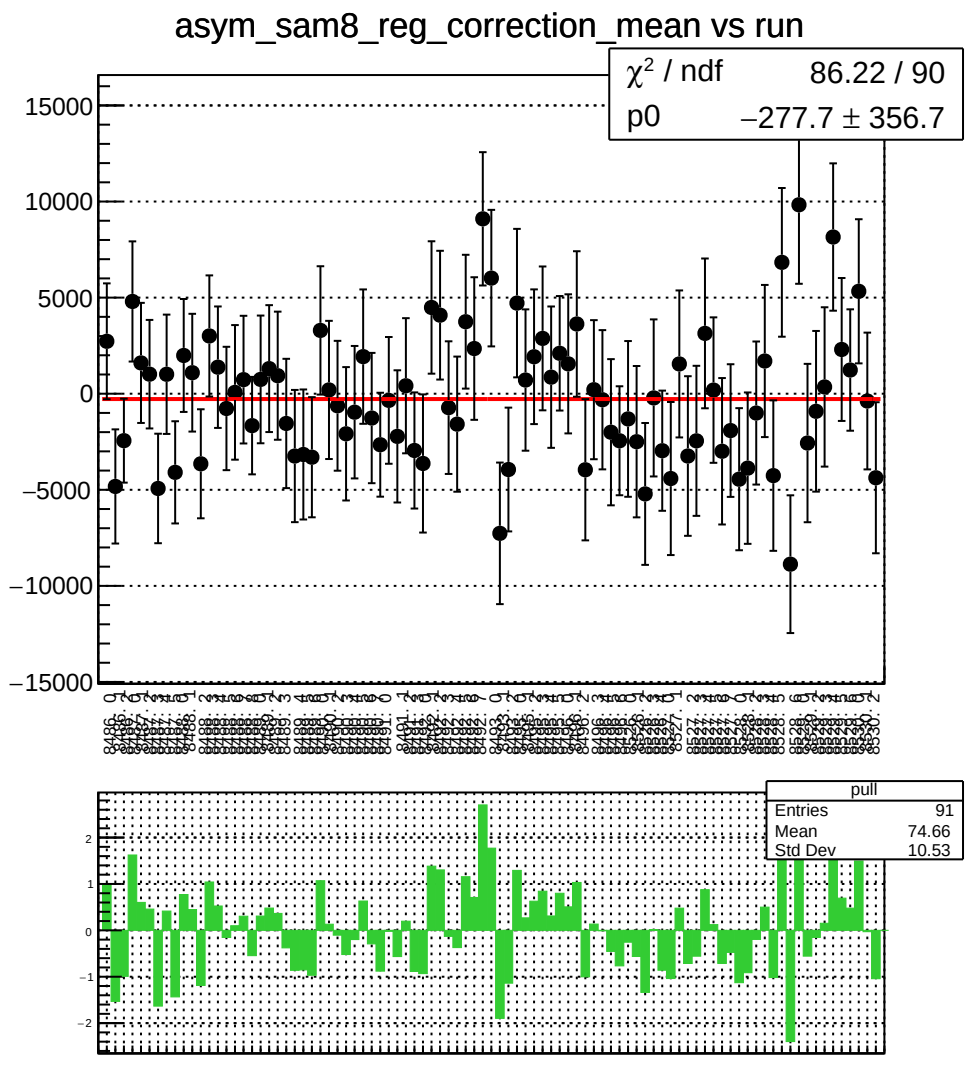

pull1D
Entries 91
Mean −0.004437
Std Dev 0.9353

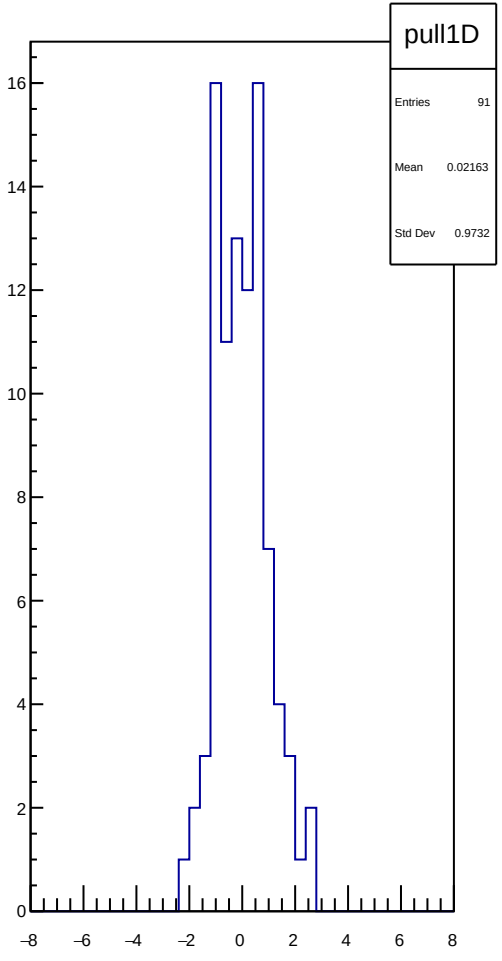

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.25
0.2
0.15
0.1
0.05
χ² / ndf 4.939e+05 / 90
p0 4.404e−11 ± 3.931e−14

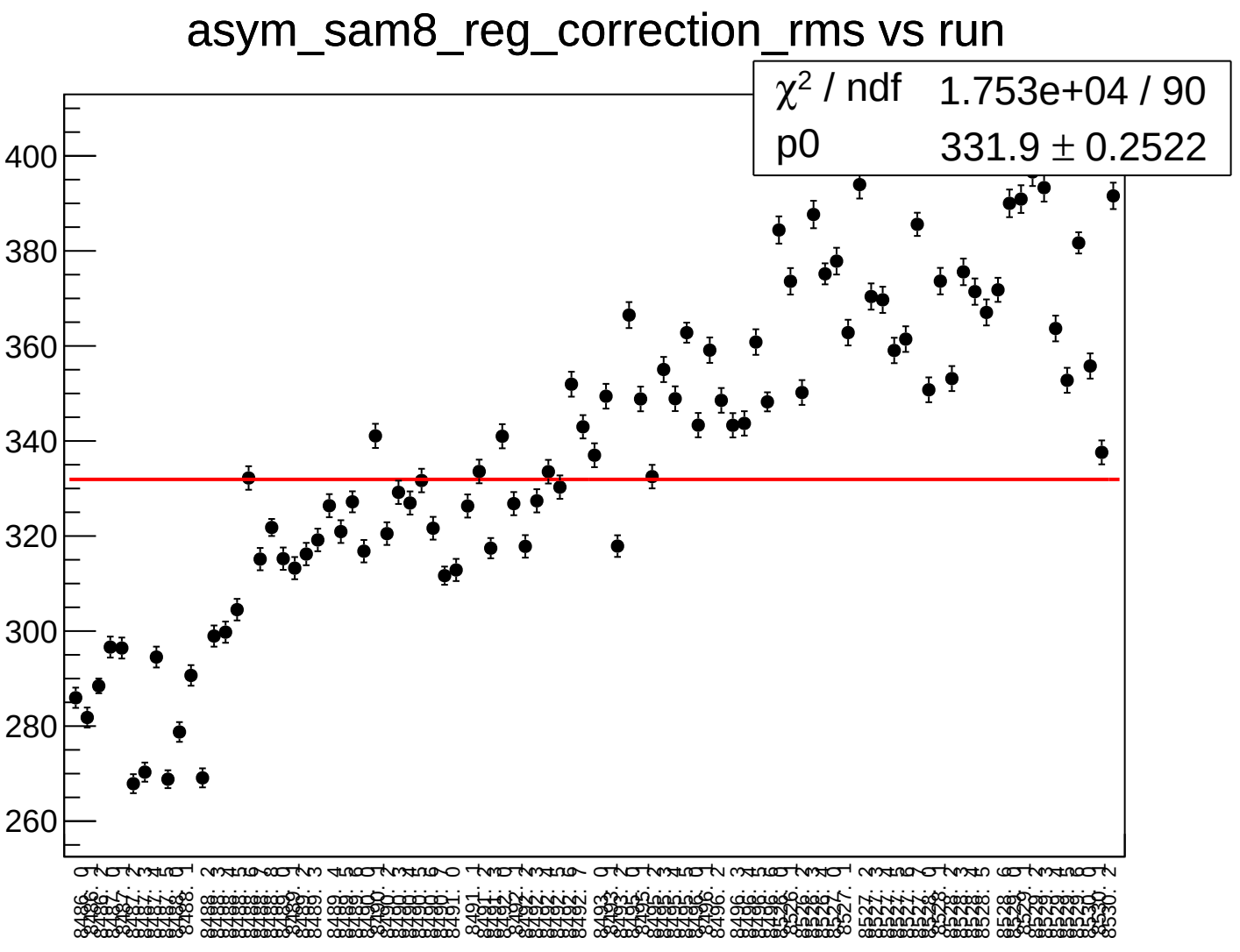

reg_asym_sam8_mean vs run
χ² / ndf 92.39 / 90
p0 85.94 ± 73.37
pull
Entries 91
Mean −1013
Std Dev 0

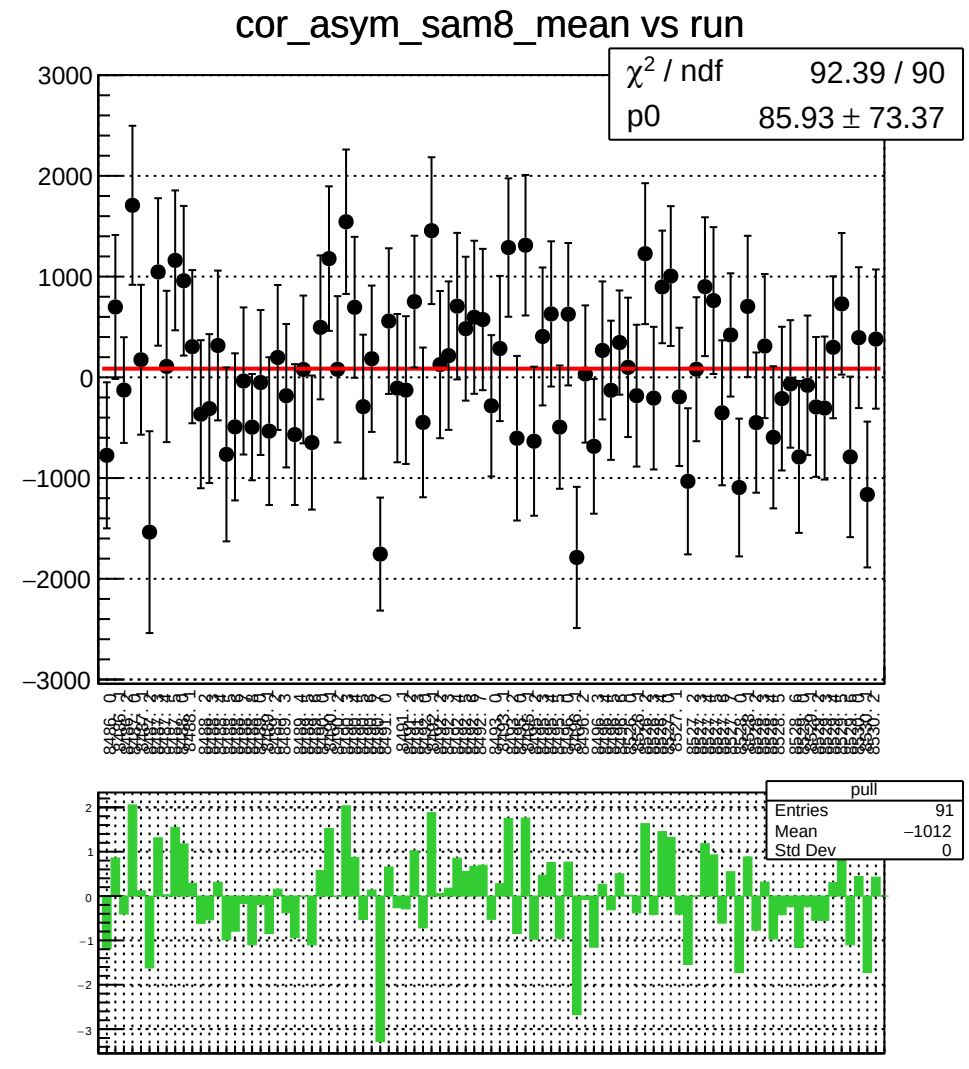

pull1D
Entries 91
Mean 0.001967
Std Dev 1.008

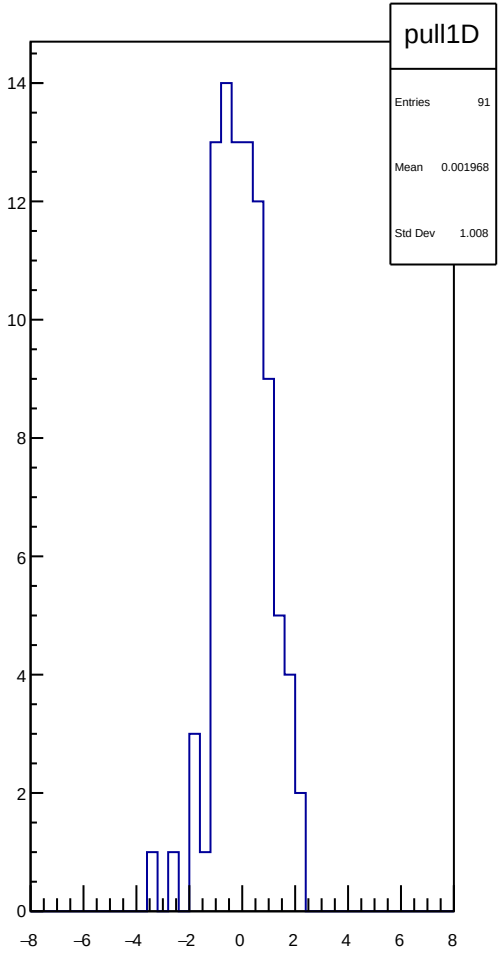

reg_asym_sam8_rms vs run
χ^2 / ndf 6397 / 90
p0 68.49 ± 0.05188
100
95
90
85
80
75
70
65
60

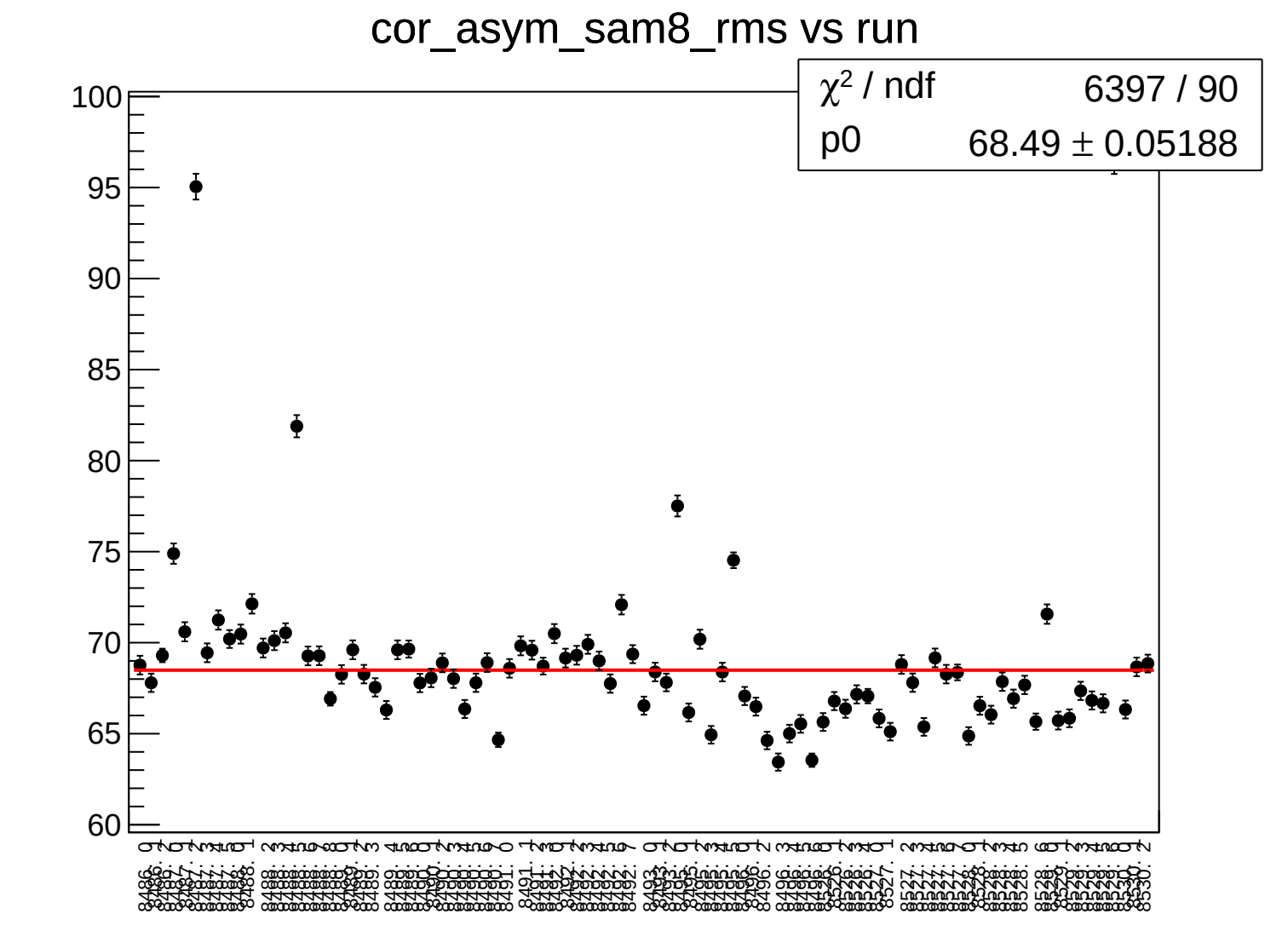

asym_sam8_reg_correction_mean vs run
χ² / ndf 86.22 / 90
p0 −277.7 ± 356.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 74.66
Std Dev 10.53
2
1
0
−1
−2

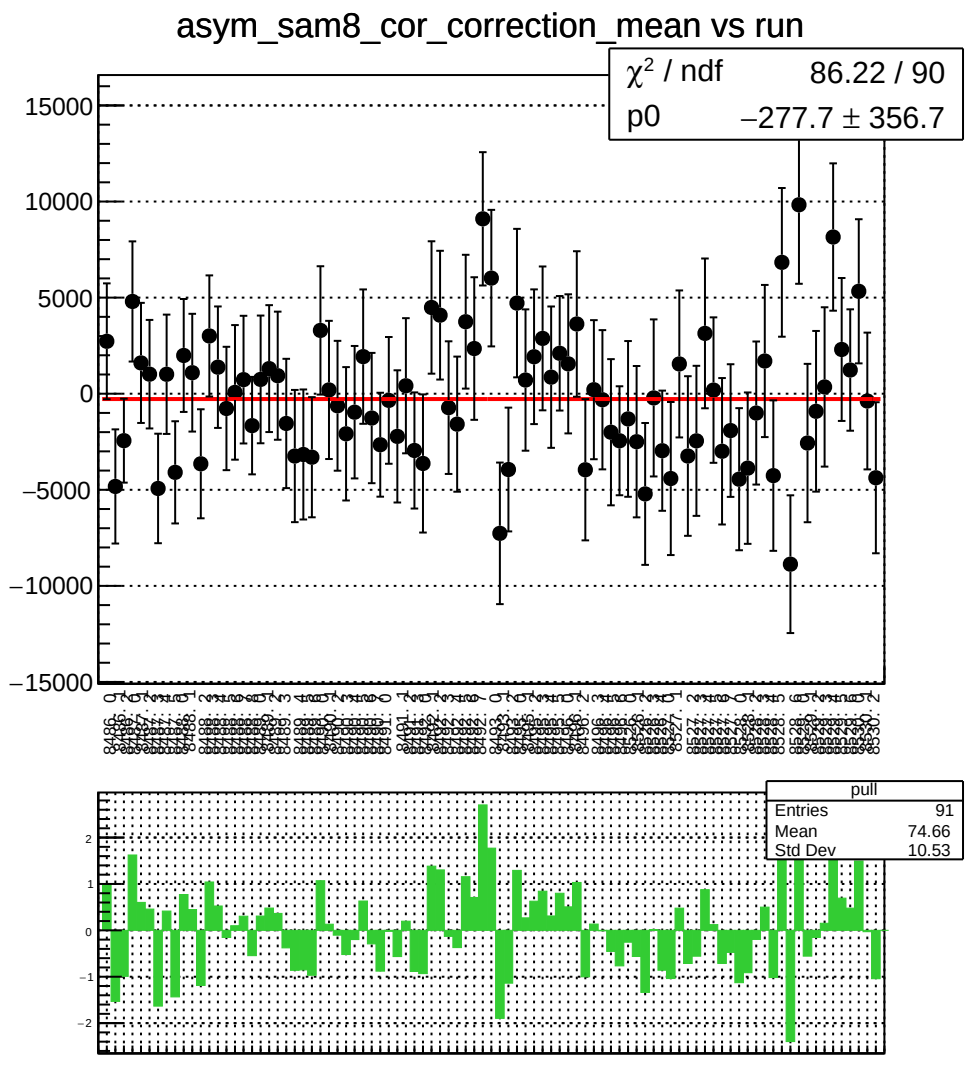

pull1D
Entries 91
Mean 0.02163
Std Dev 0.9732
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

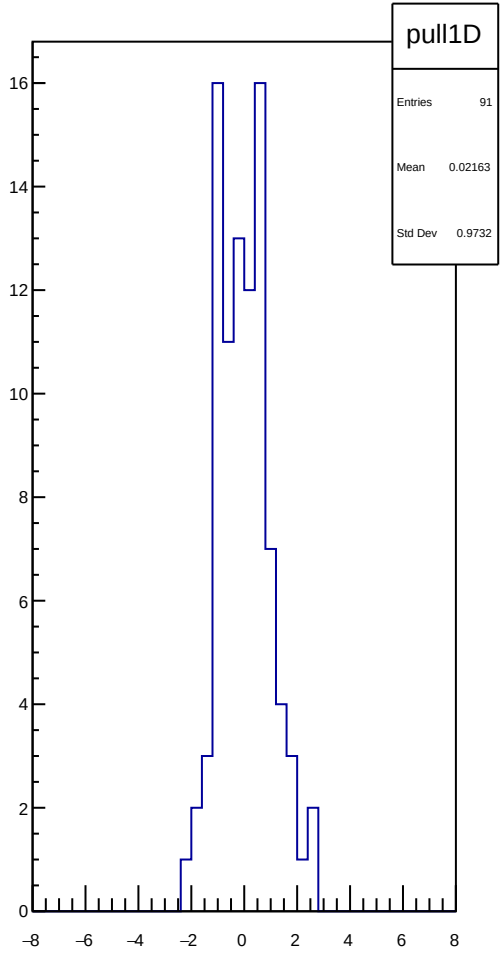

asym_sam8_reg_correction_rms vs run
χ² / ndf 1.753e+04 / 90
p0 331.9 ± 0.2522
400
380
360
340
320
300
280
260

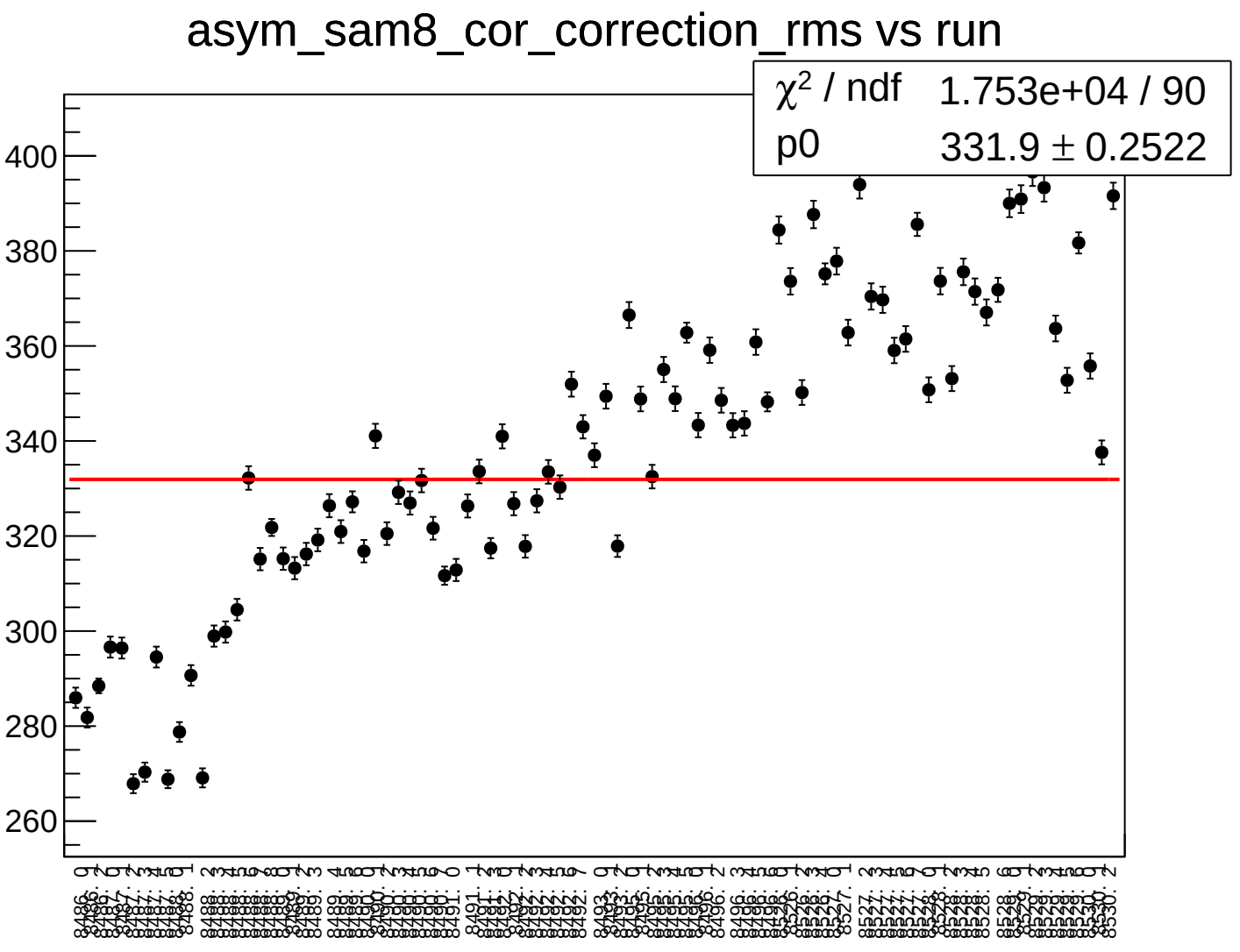

cor_asym_sam8_mean vs run
χ² / ndf 92.39 / 90
p0 85.93 ± 73.37
pull
Entries 91
Mean −1012
Std Dev 0

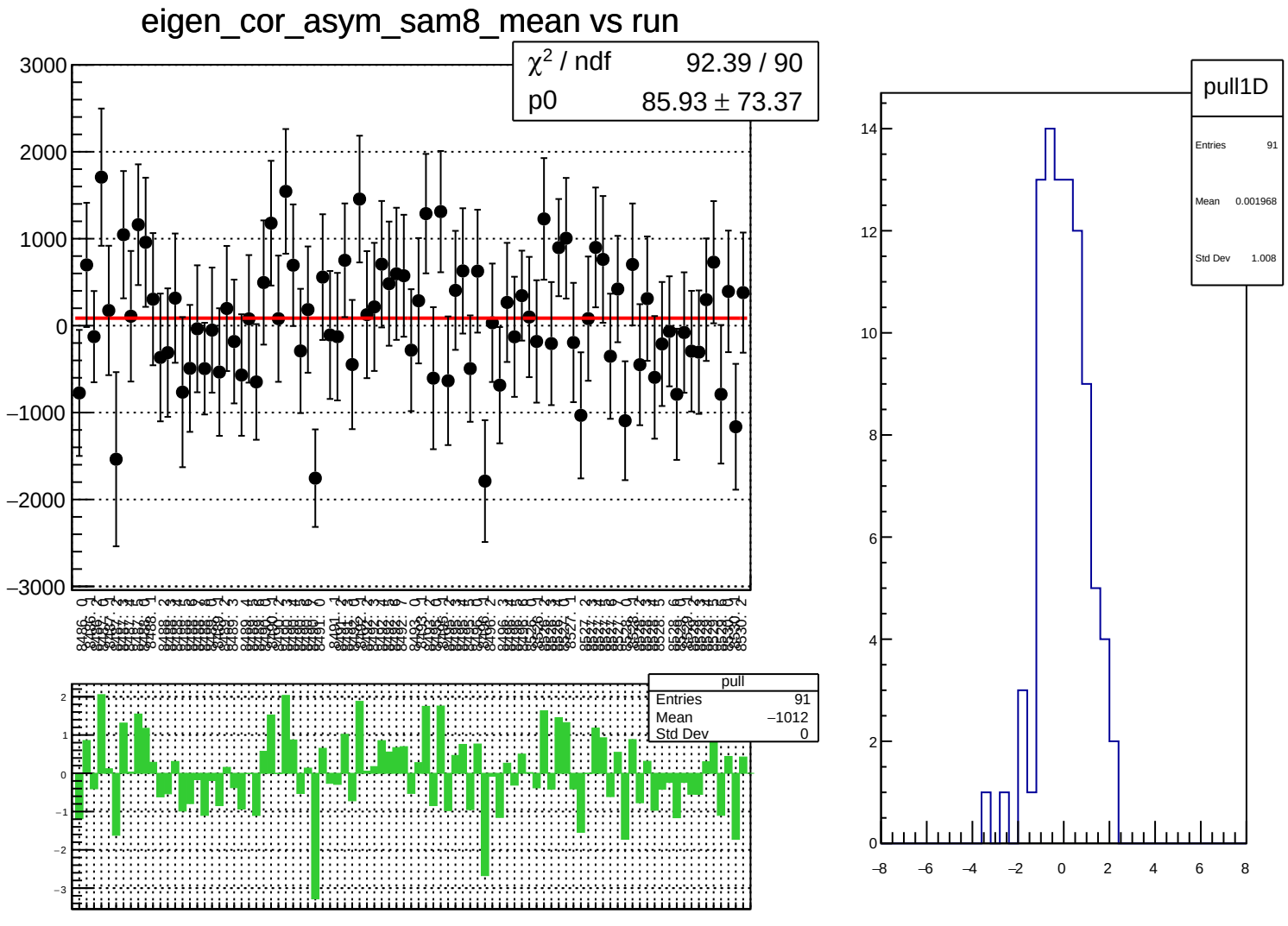

pull1D
Entries 91
Mean 0.001968
Std Dev 1.008

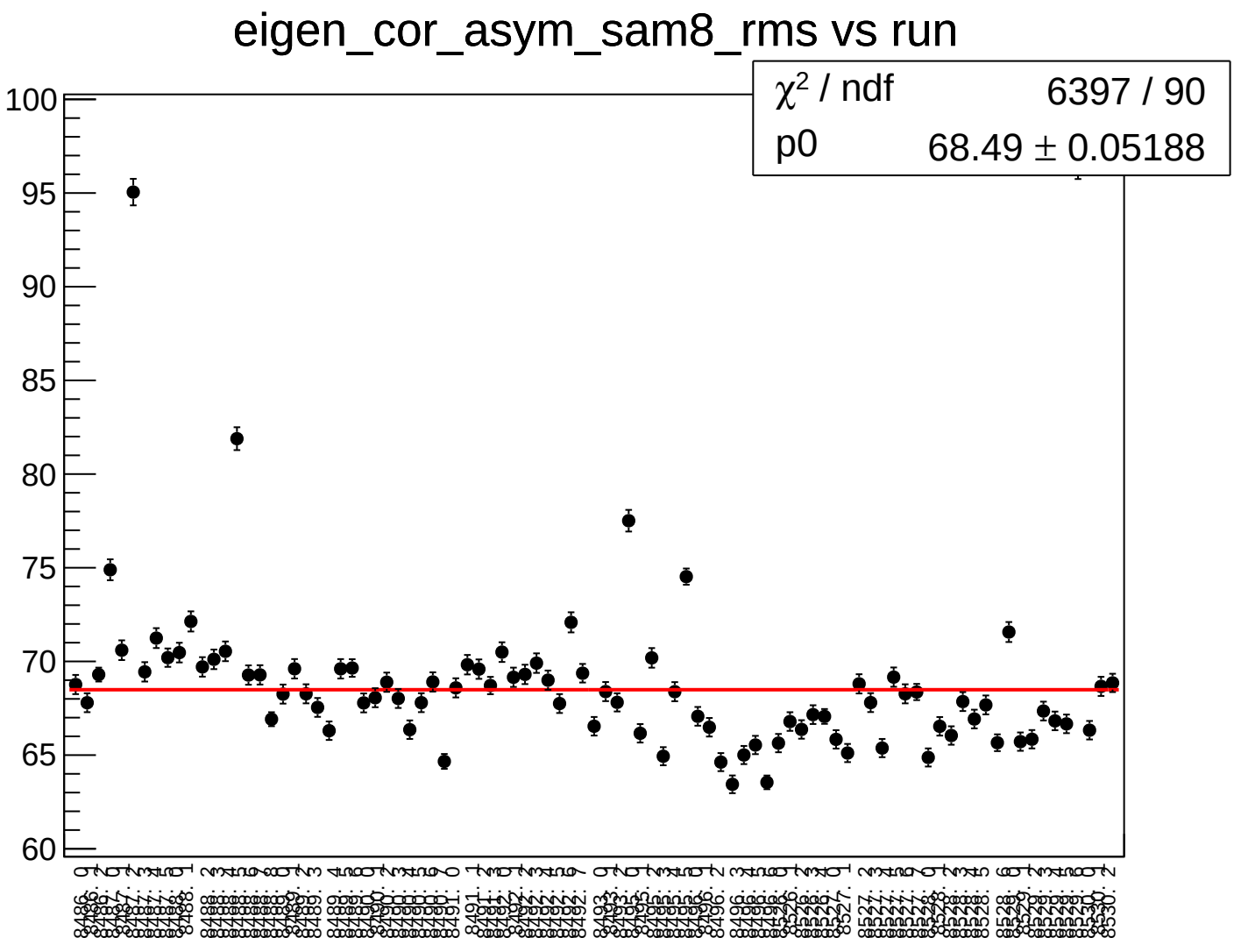

cor_asym_sam8_rms vs run
χ^2 / ndf 6397 / 90
p0 68.49 ± 0.05188
100
95
90
85
80
75
70
65
60

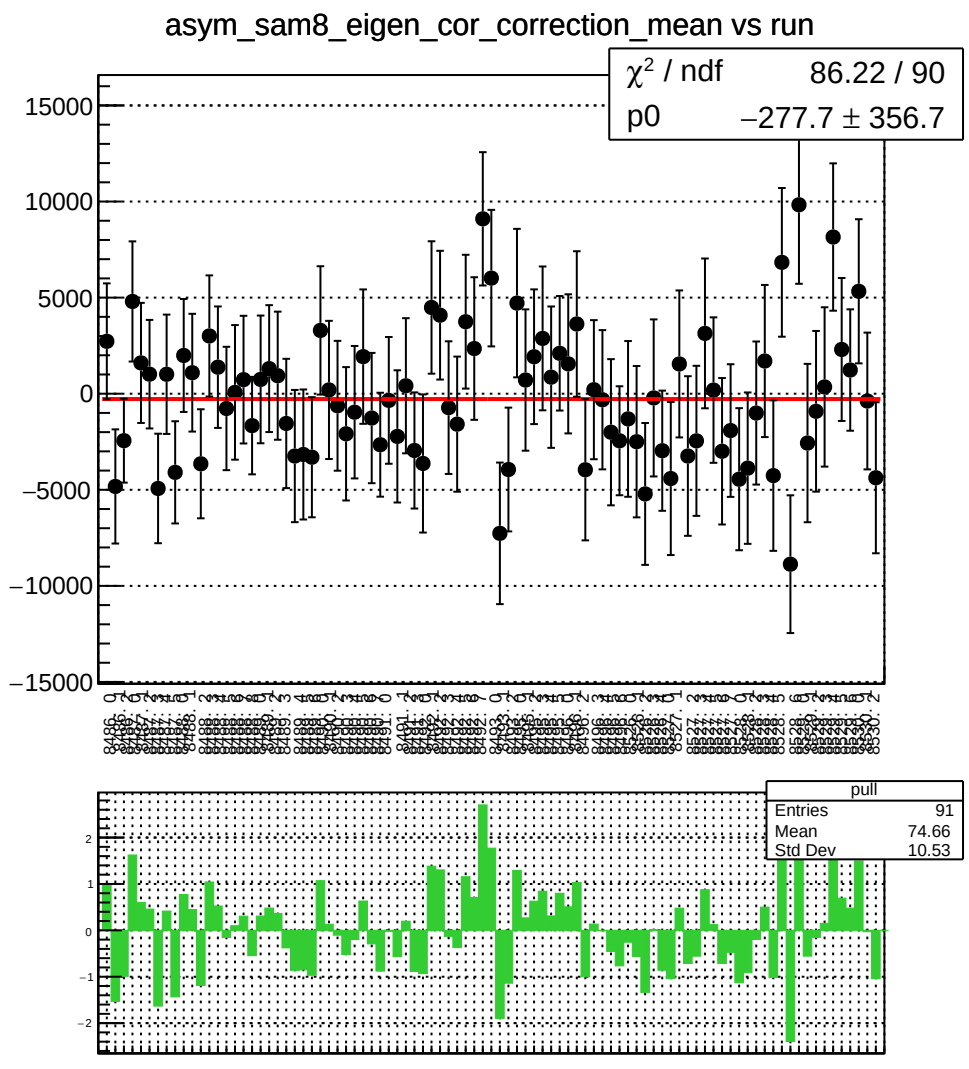

asym_sam8_cor_correction_mean vs run
χ² / ndf 86.22 / 90
p0 −277.7 ± 356.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 74.66
Std Dev 10.53
2
1
0
−1
−2

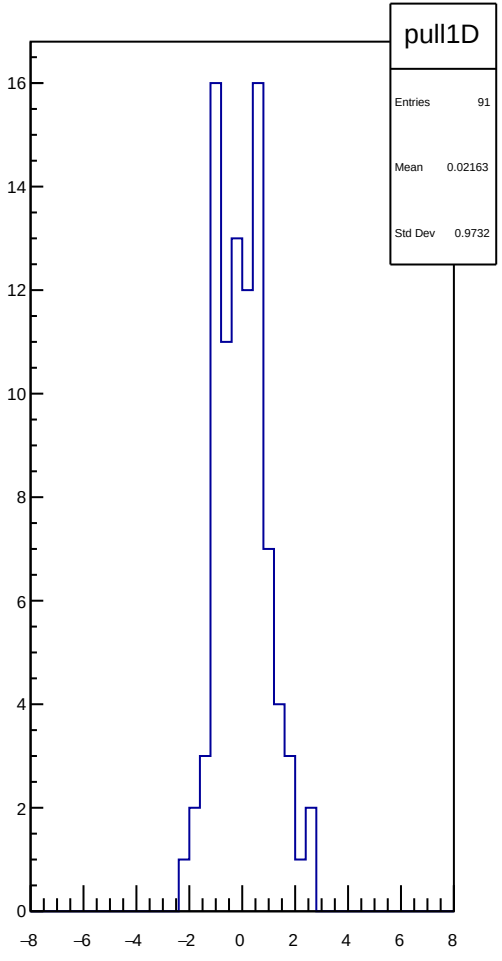

pull1D
Entries 91
Mean 0.02163
Std Dev 0.9732
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

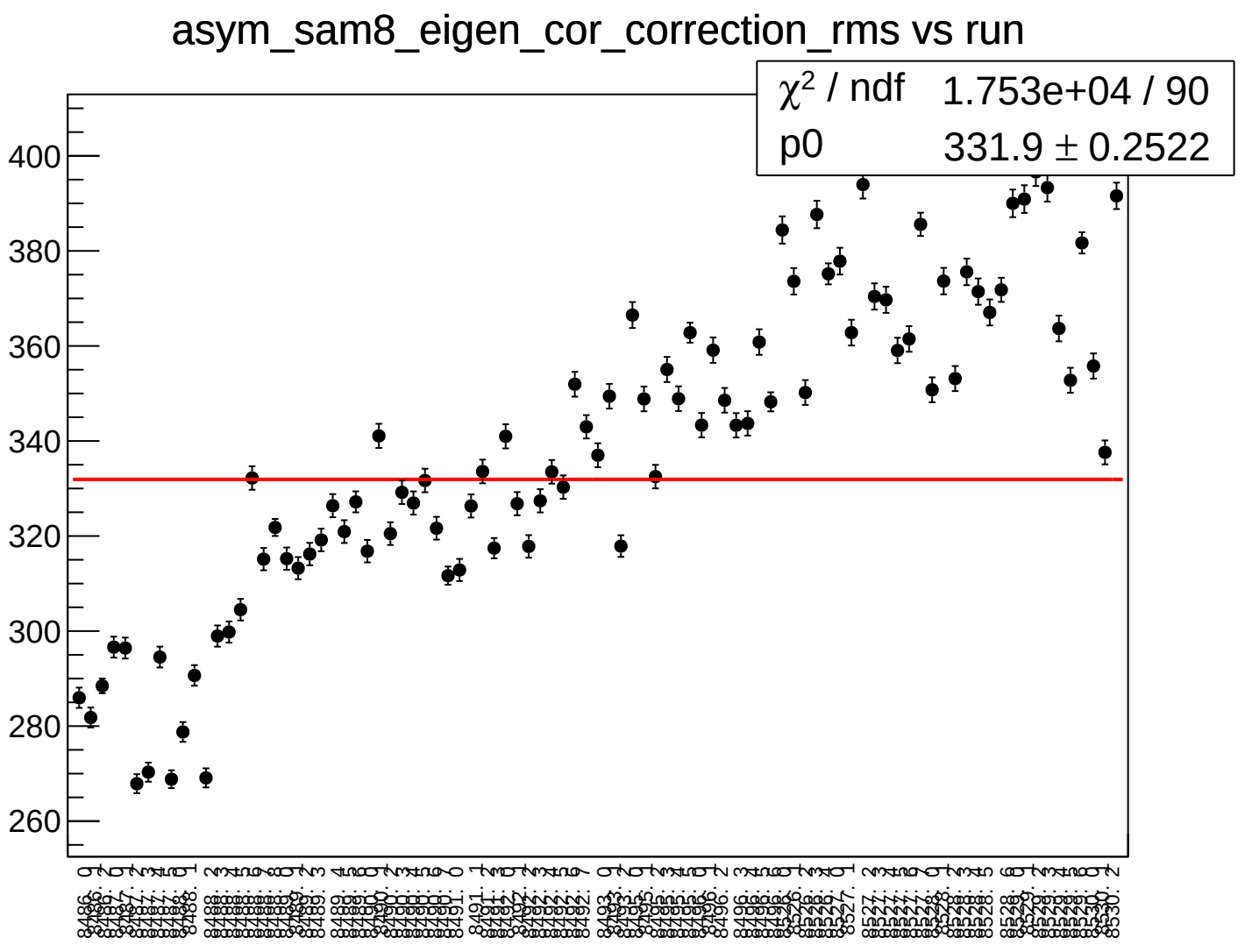

asym_sam8_cor_correction_rms vs run
χ² / ndf 1.753e+04 / 90
p0 331.9 ± 0.2522
400
380
360
340
320
300
280
260

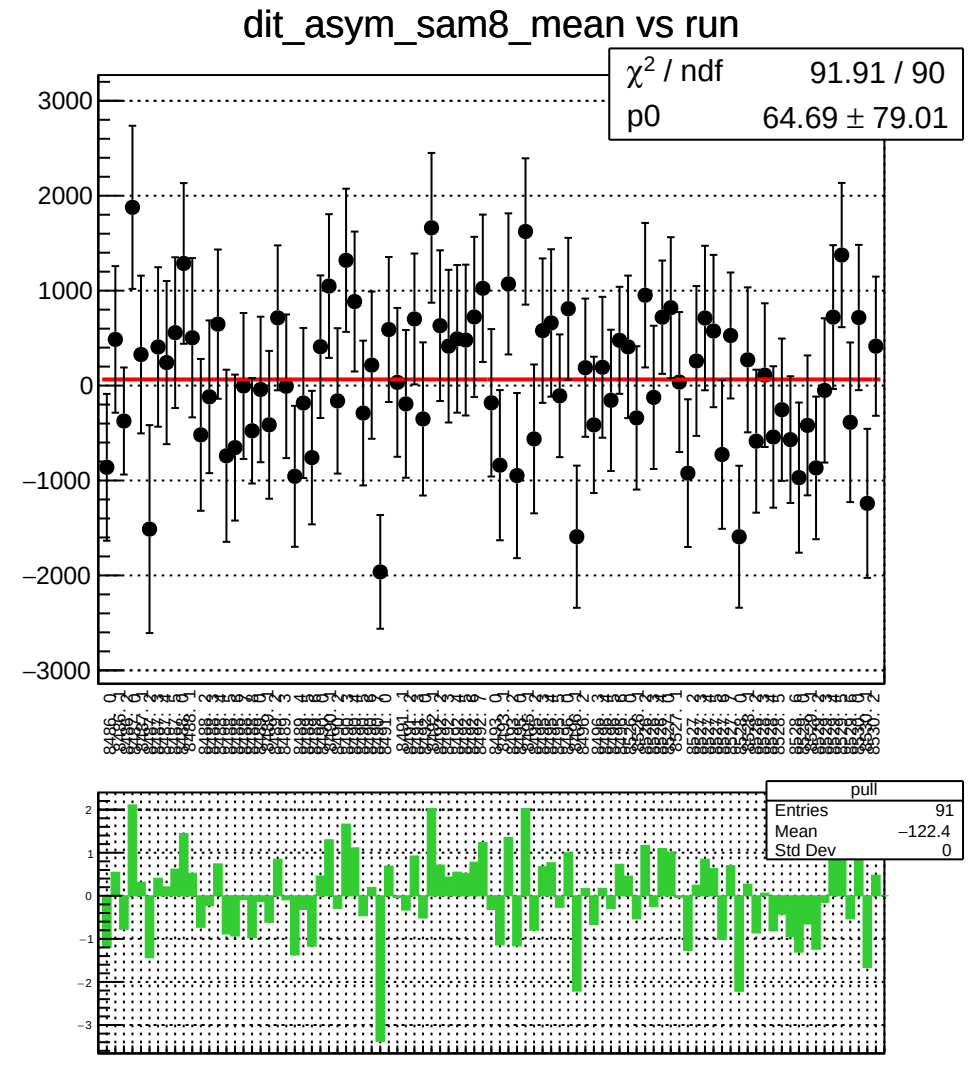

eigen_cor_asym_sam8_mean vs run
χ² / ndf 92.39 / 90
p0 85.93 ± 73.37
pull
Entries 91
Mean −1012
Std Dev 0
pull1D
Entries 91
Mean 0.001968
Std Dev 1.008

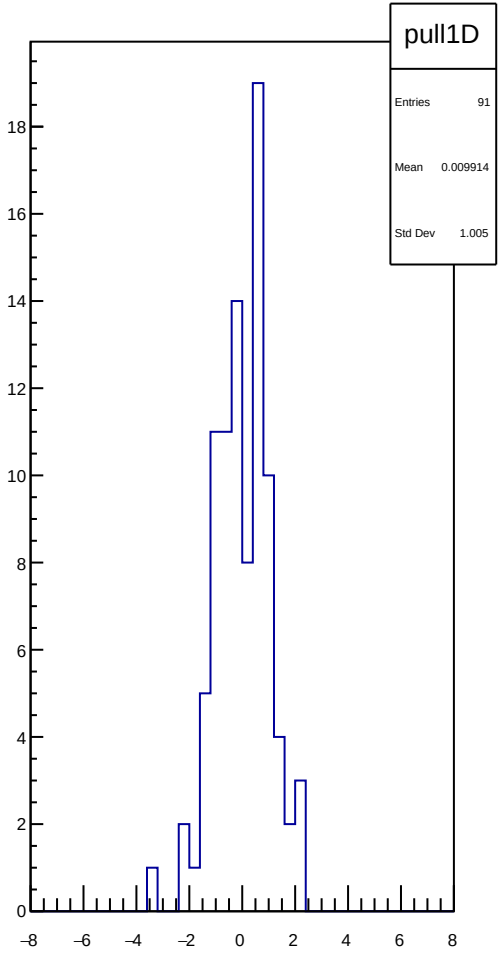

eigen_cor_asym_sam8_rms vs run
χ^2 / ndf 6397 / 90
p0 68.49 ± 0.05188
100
95
90
85
80
75
70
65
60

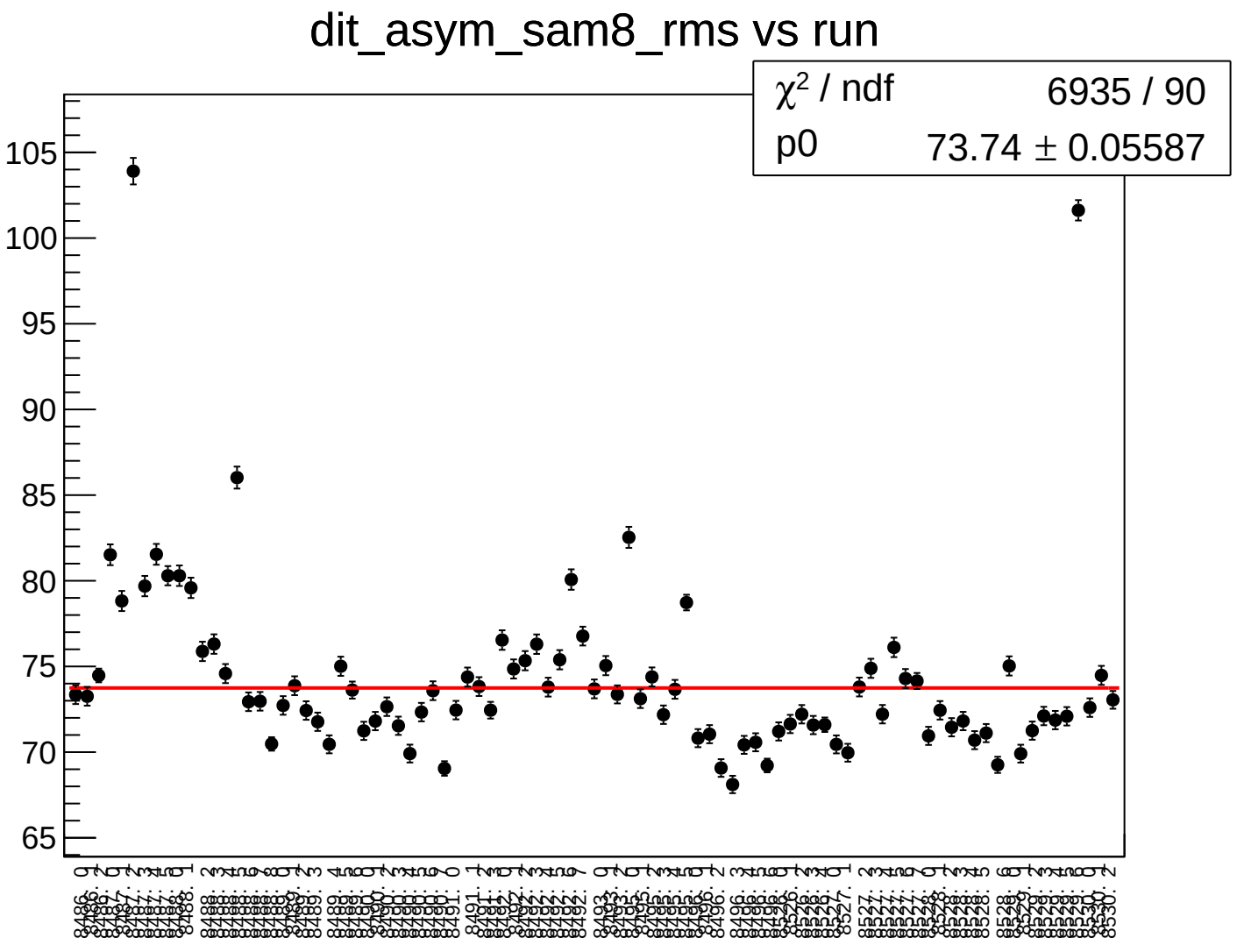

asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 86.22 / 90
p0 −277.7 ± 356.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 74.66
Std Dev 10.53
2
1
0
−1
−2

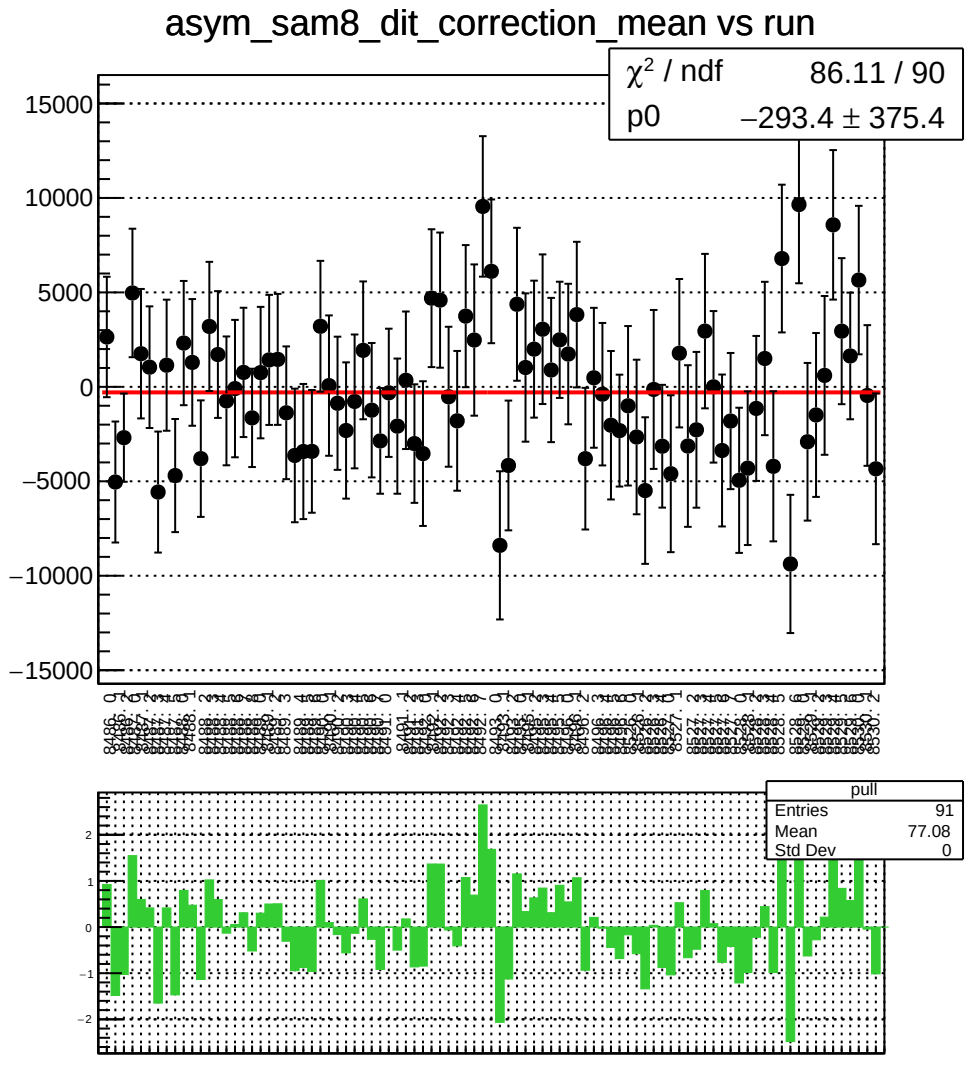

pull1D
Entries 91
Mean 0.02163
Std Dev 0.9732
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

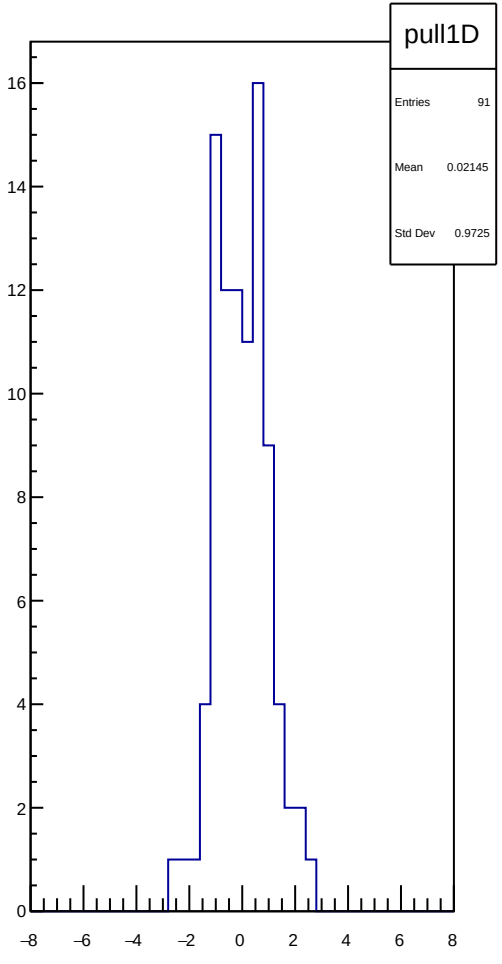

asym_sam8_eigen_cor_correction_rms vs run
χ² / ndf 1.753e+04 / 90
p0 331.9 ± 0.2522
400
380
360
340
320
300
280
260

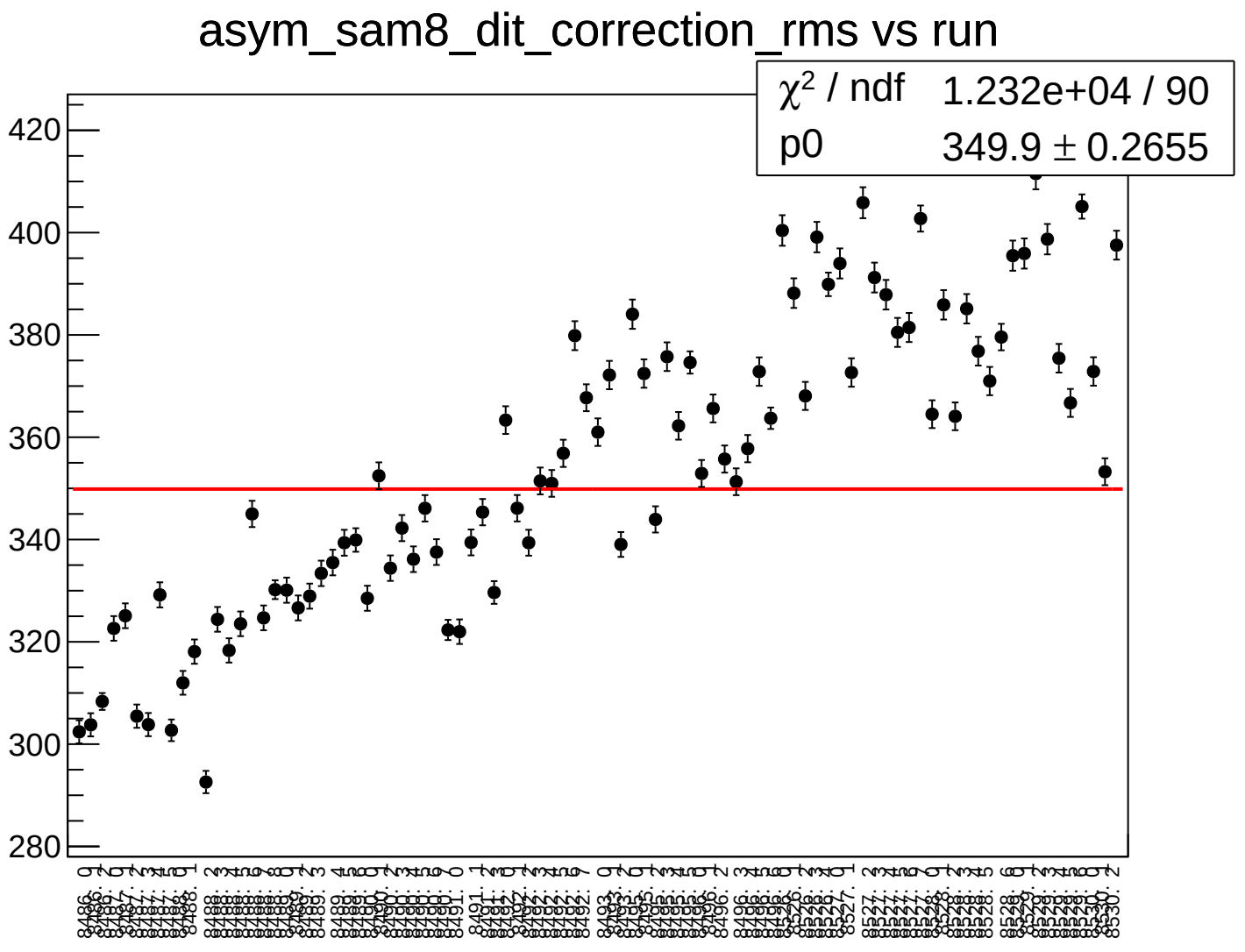

dit_asym_sam8_mean vs run
χ² / ndf 91.91 / 90
p0 64.69 ± 79.01
pull
Entries 91
Mean −122.4
Std Dev 0

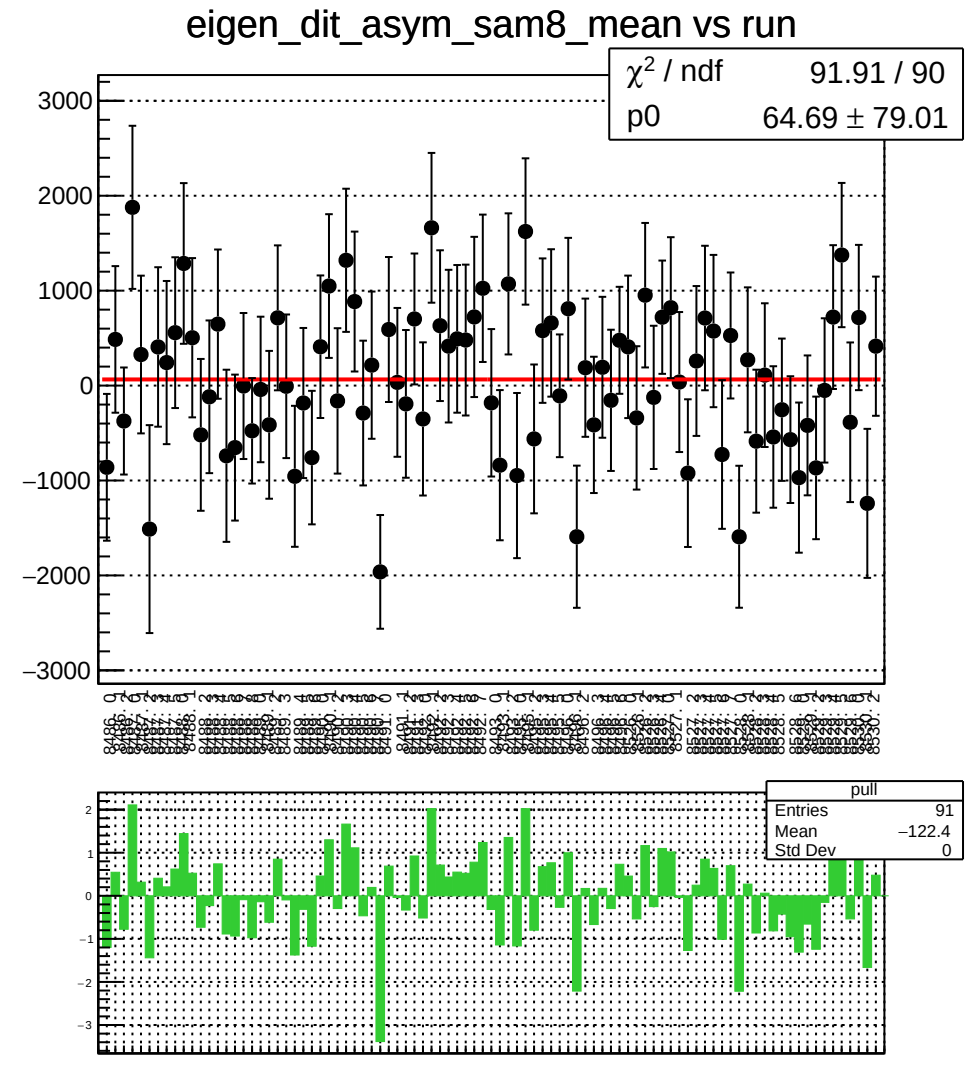

pull1D
Entries 91
Mean 0.009914
Std Dev 1.005

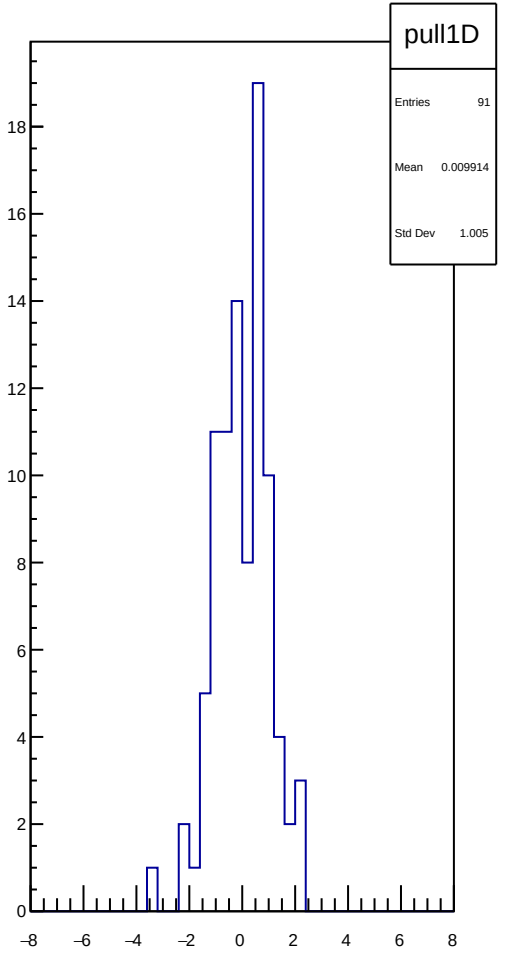

dit_asym_sam8_rms vs run
χ^2 / ndf 6935 / 90
p0 73.74 ± 0.05587
105
100
95
90
85
80
75
70
65

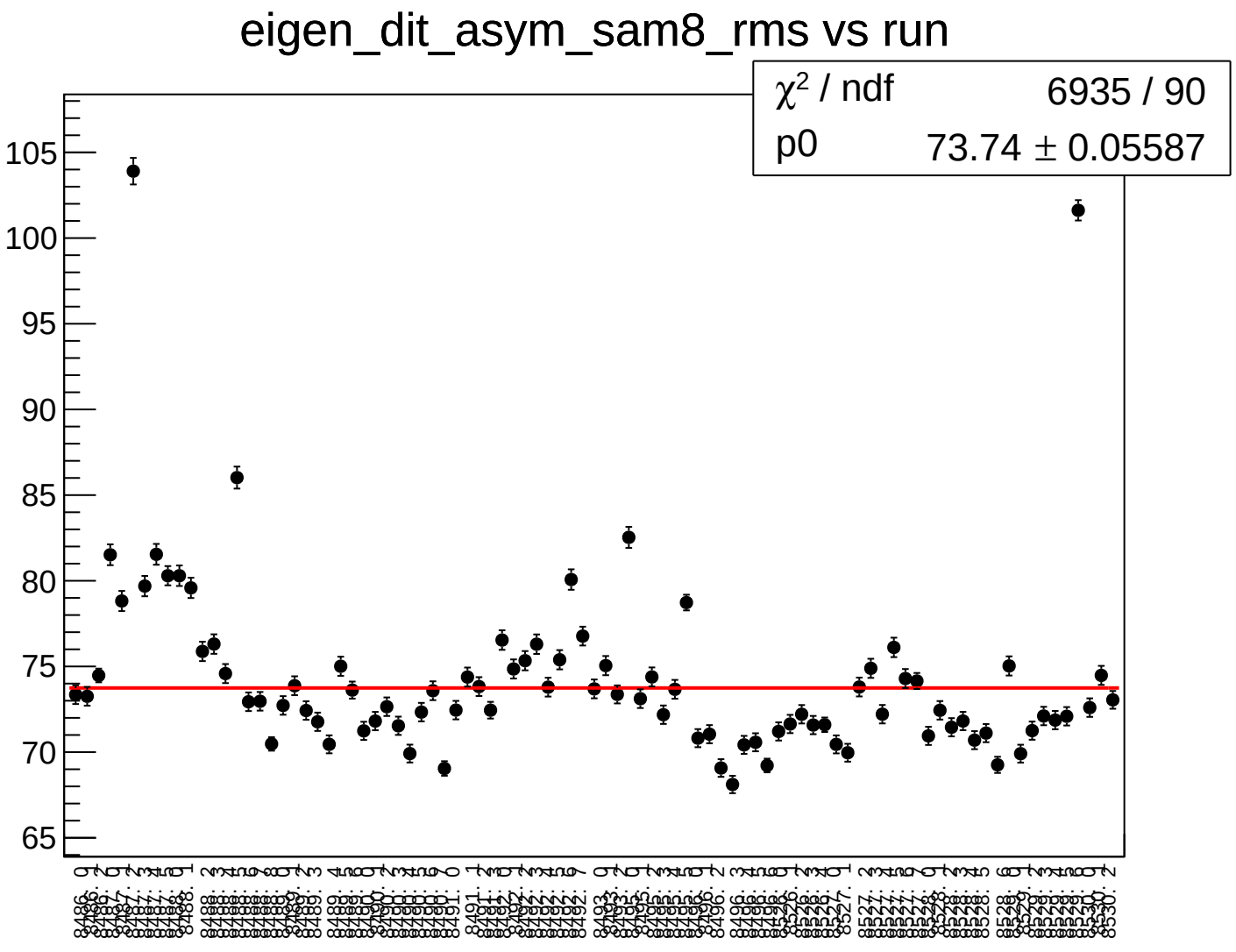

asym_sam8_dit_correction_mean vs run
χ² / ndf 86.11 / 90
p0 −293.4 ± 375.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 77.08
Std Dev 0
2
1
0
−1
−2

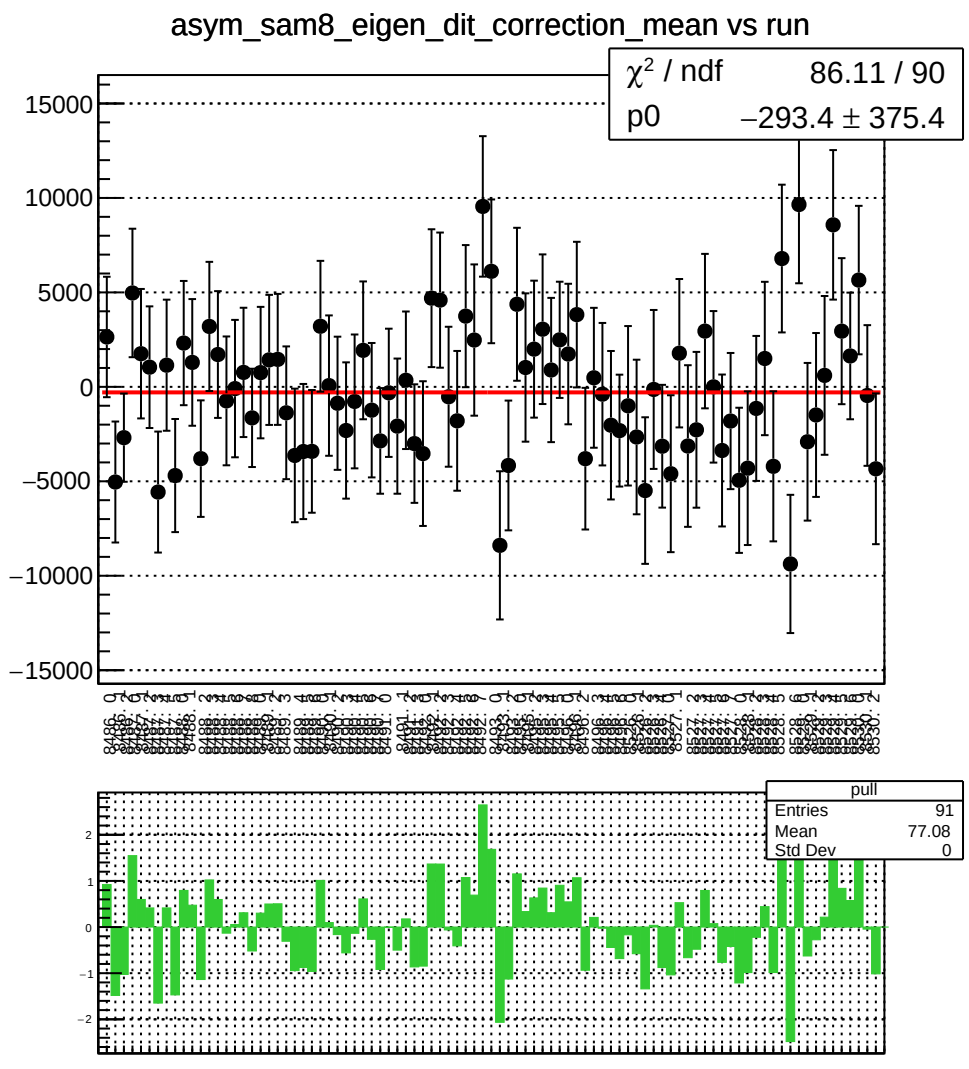

pull1D
Entries 91
Mean 0.02145
Std Dev 0.9725
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

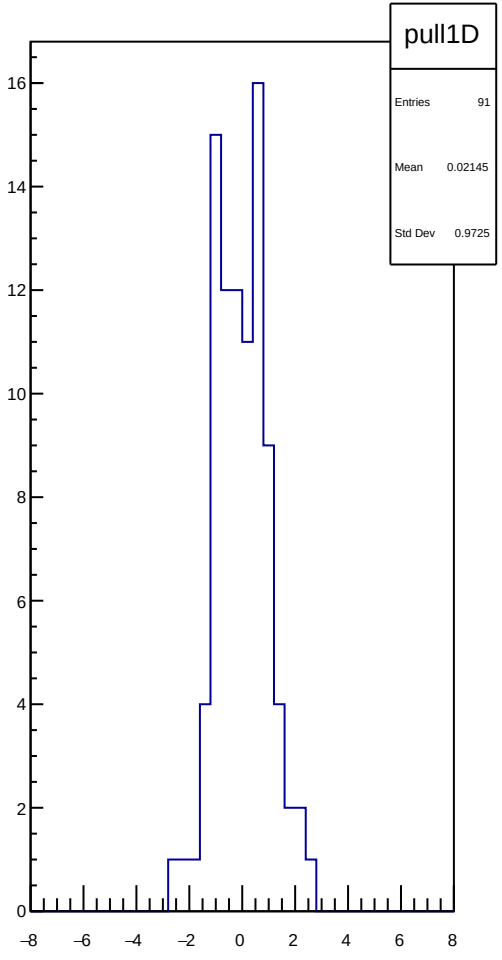

asym_sam8_dit_correction_rms vs run
χ² / ndf 1.232e+04 / 90
p0 349.9 ± 0.2655
420
400
380
360
340
320
300
280

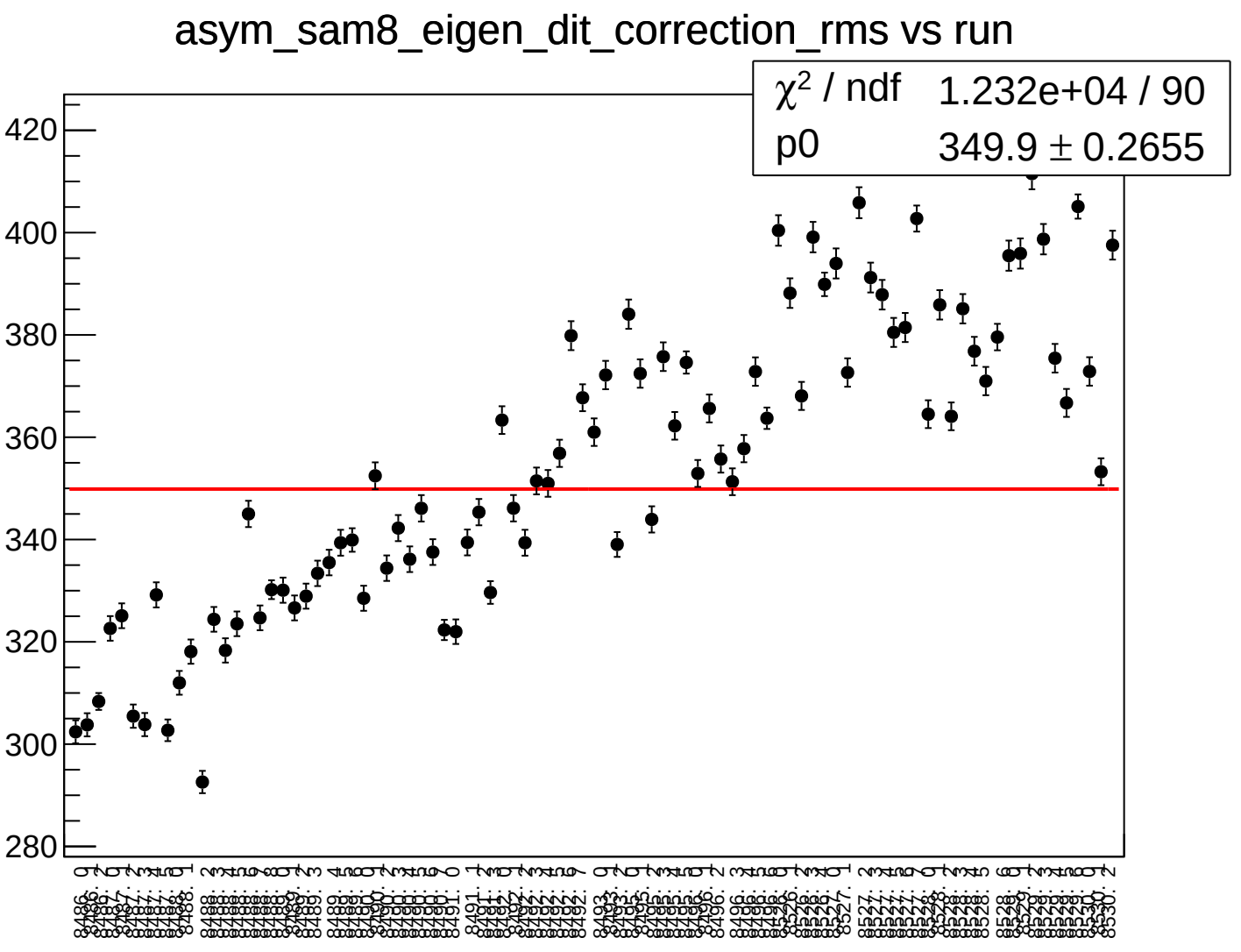

eigen_dit_asym_sam8_mean vs run
χ² / ndf 91.91 / 90
p0 64.69 ± 79.01
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 91
Mean −122.4
Std Dev 0
2
1
0
−1
−2
−3

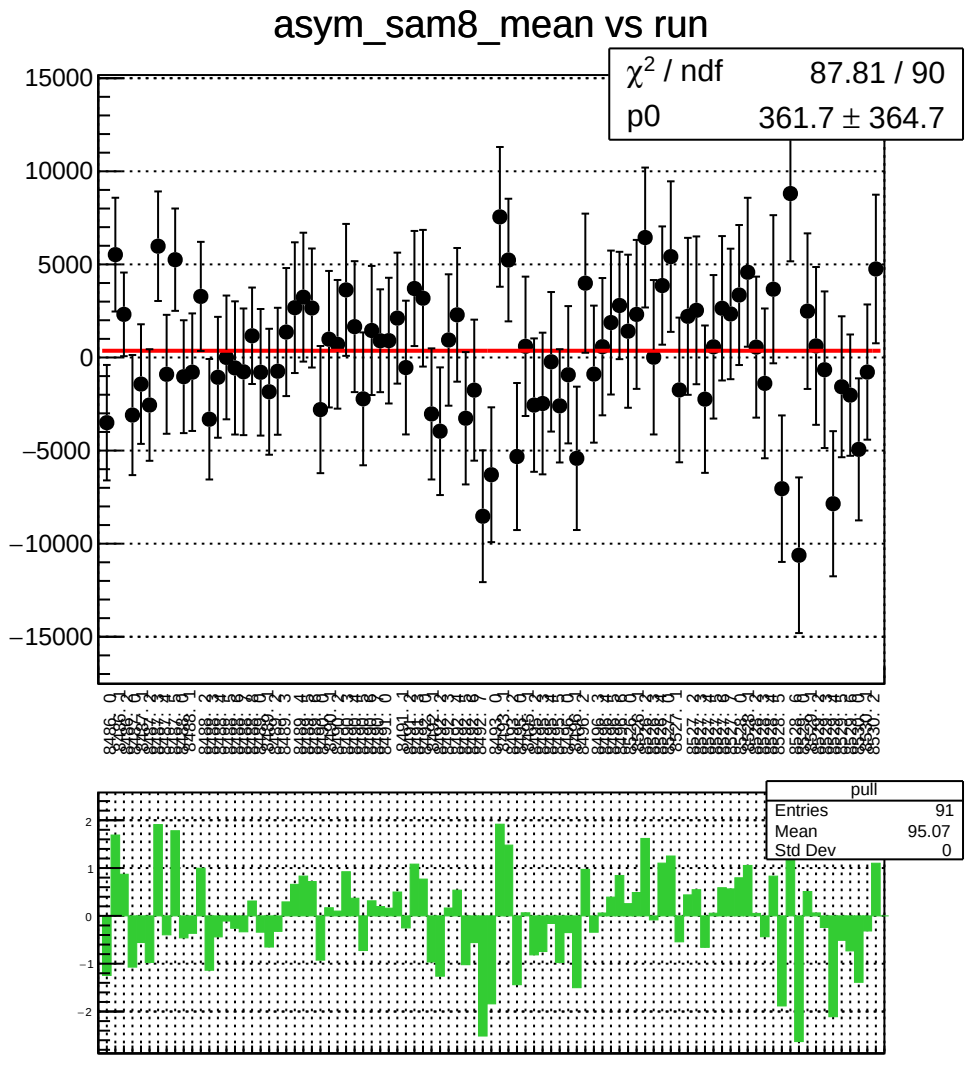

pull1D
Entries 91
Mean 0.009914
Std Dev 1.005
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

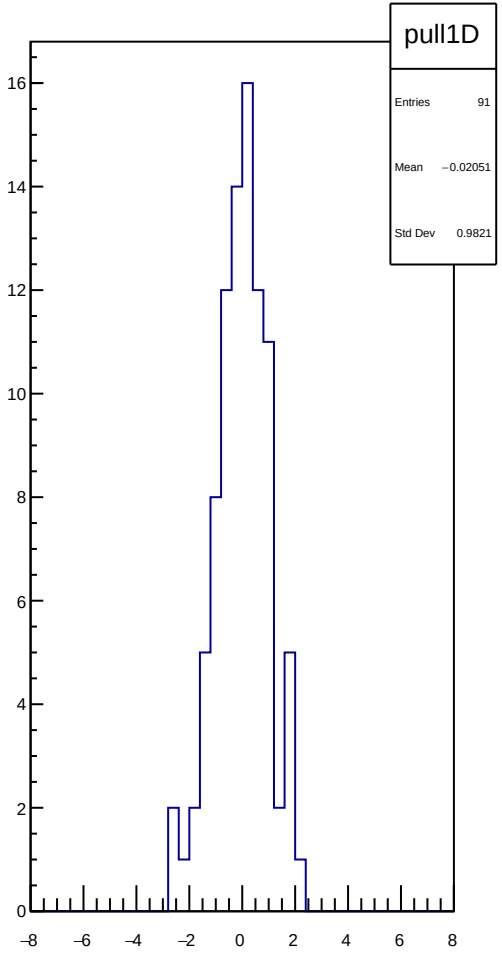

eigen_dit_asym_sam8_rms vs run
χ² / ndf 6935 / 90
p0 73.74 ± 0.05587
105
100
95
90
85
80
75
70
65

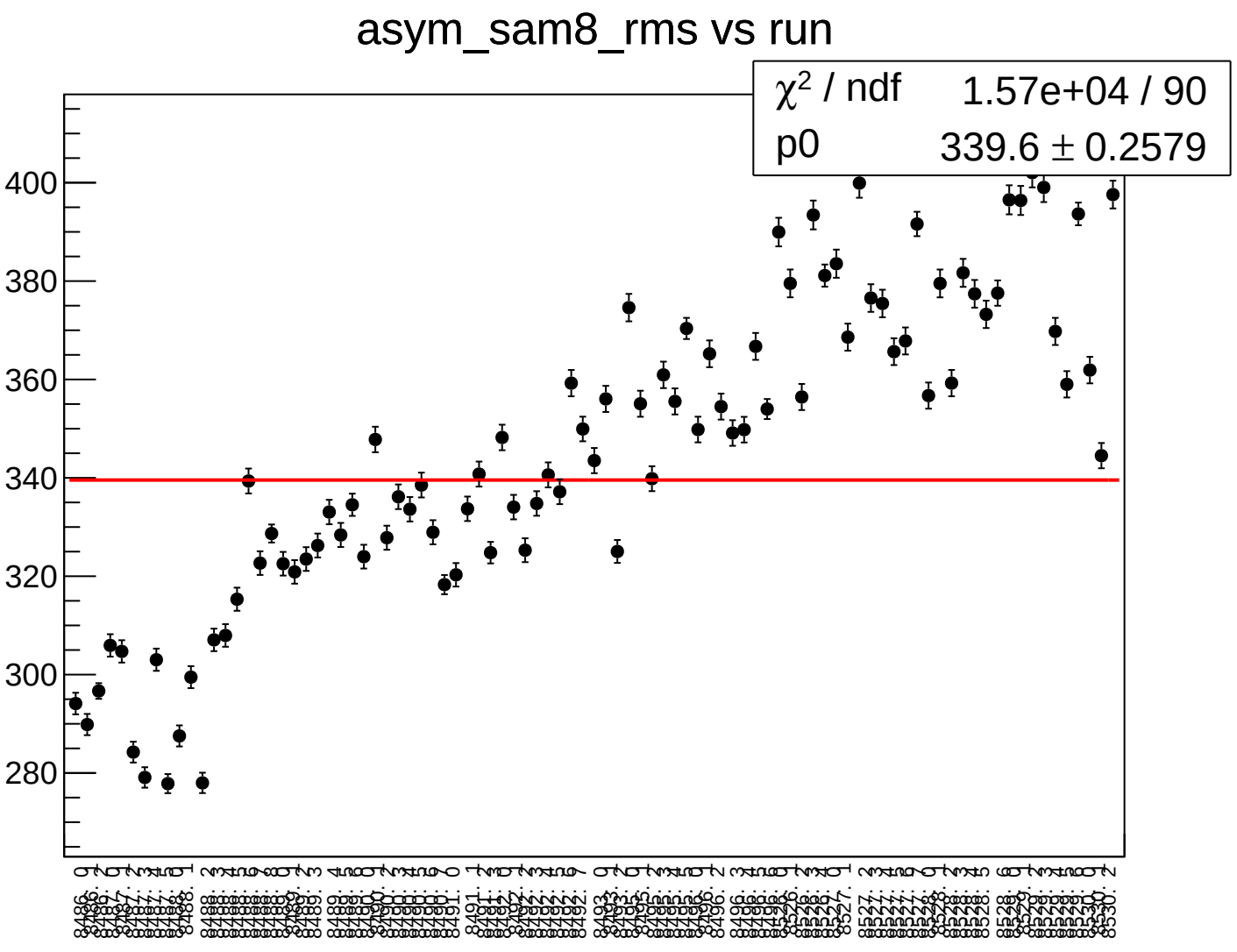

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 86.11 / 90
p0 −293.4 ± 375.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 77.08
Std Dev 0
2
1
0
−1
−2

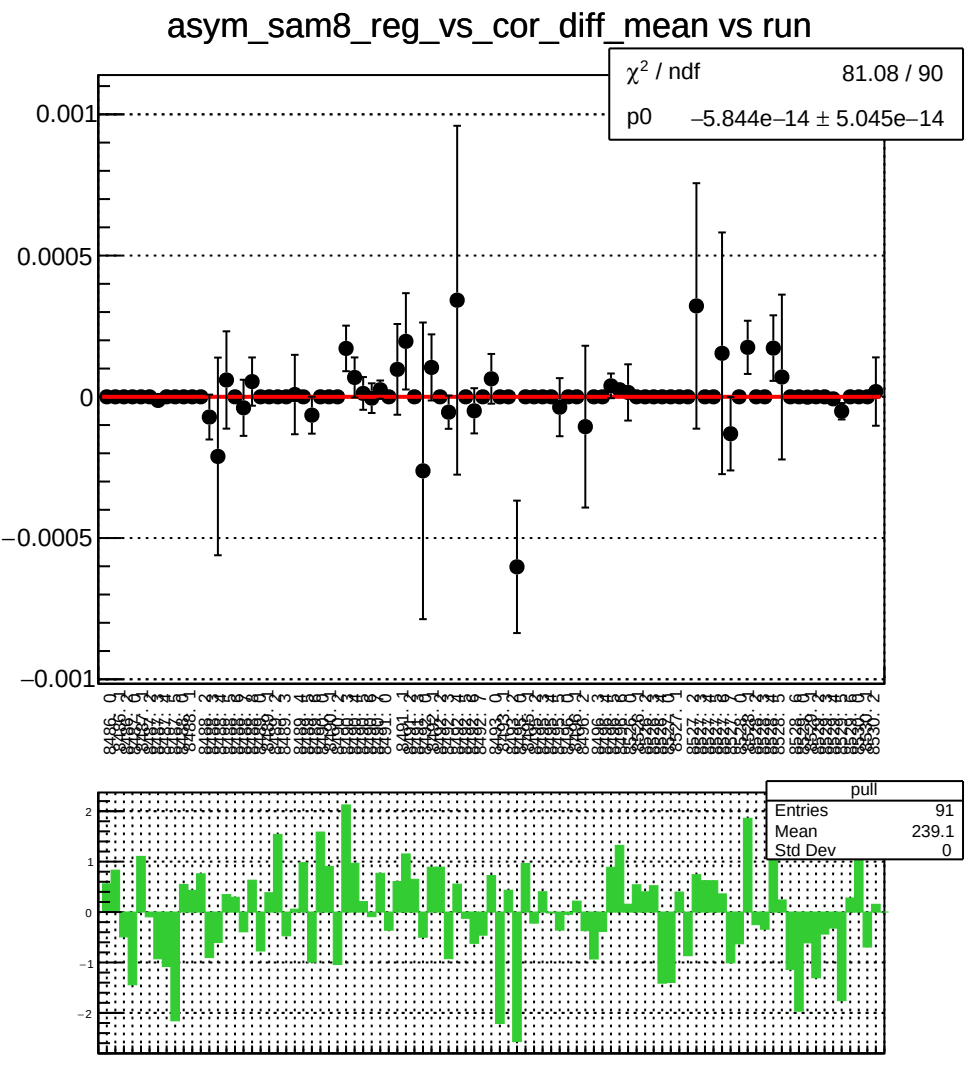

pull1D
Entries 91
Mean 0.02145
Std Dev 0.9725
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

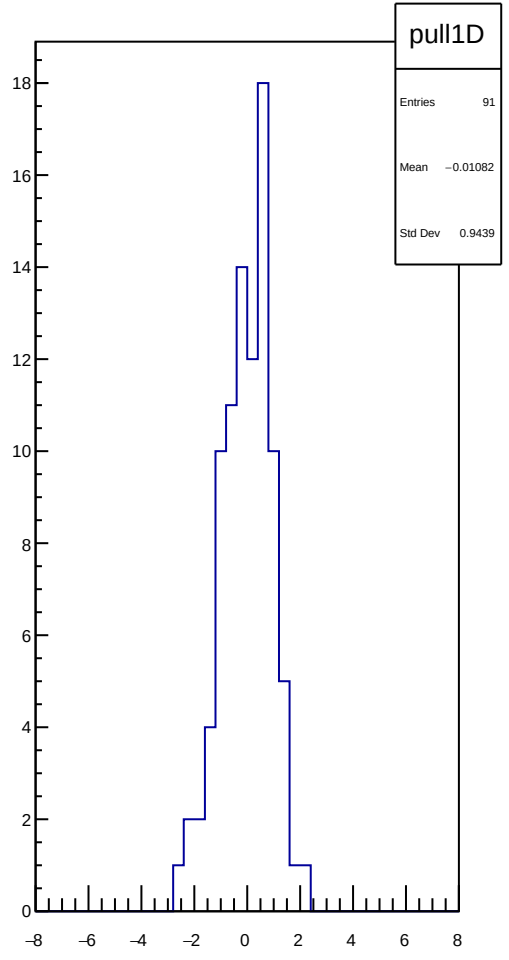

asym_sam8_eigen_dit_correction_rms vs run
χ² / ndf 1.232e+04 / 90
p0 349.9 ± 0.2655
420
400
380
360
340
320
300
280

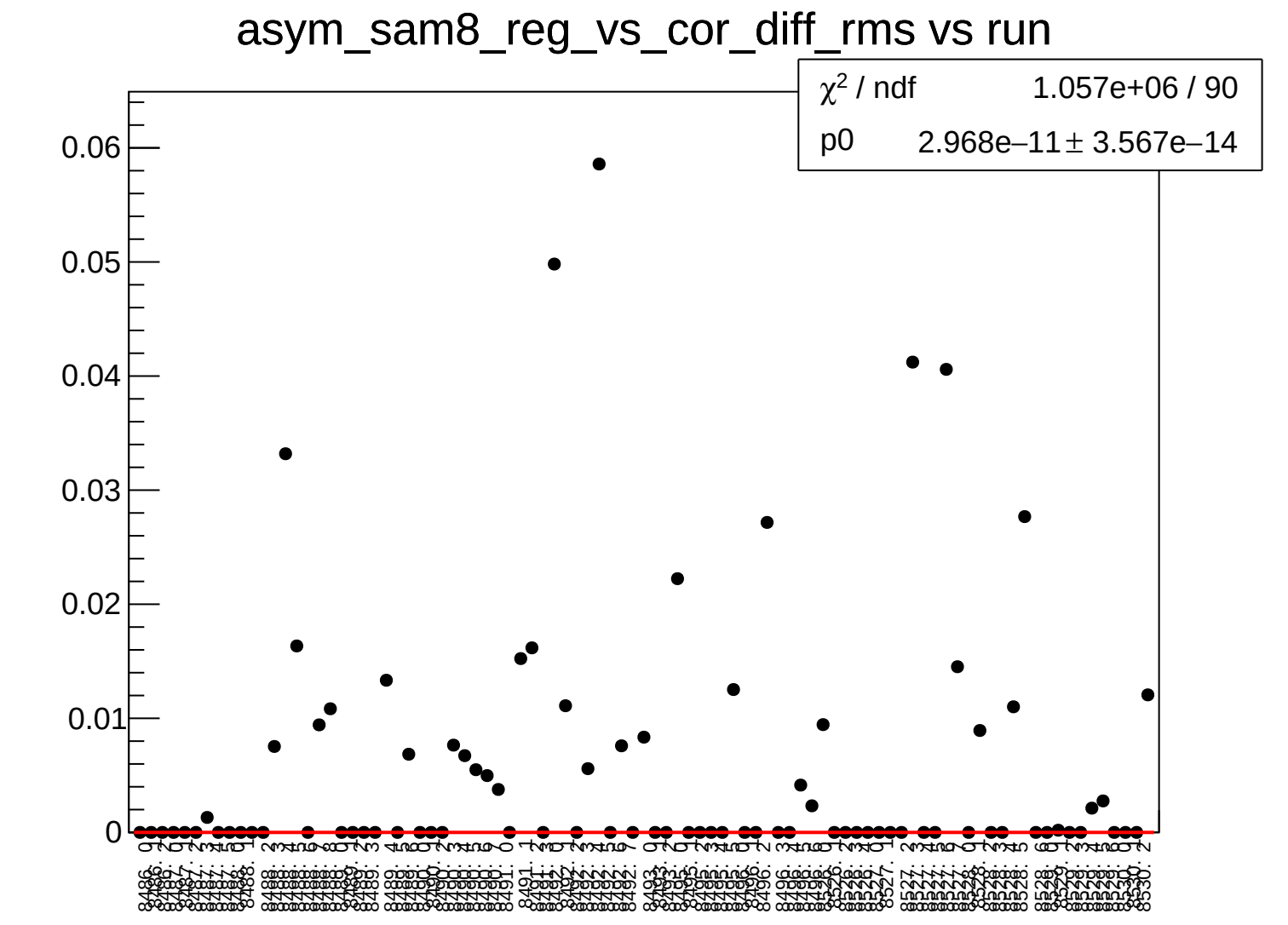

asym_sam8_mean vs run
χ² / ndf 87.81 / 90
p0 361.7 ± 364.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 95.07
Std Dev 0
2
1
0
−1
−2

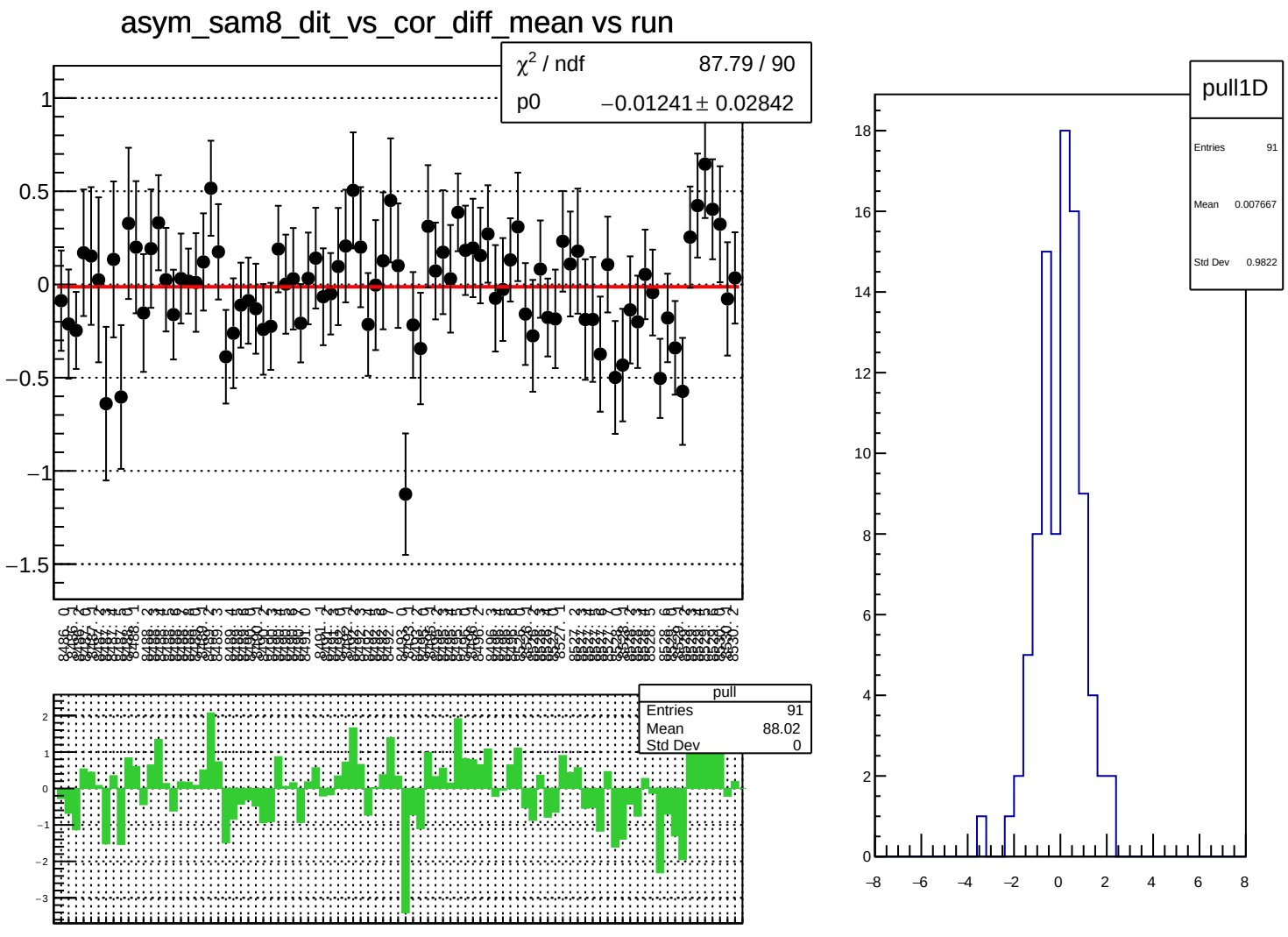

pull1D
Entries 91
Mean −0.02051
Std Dev 0.9821
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

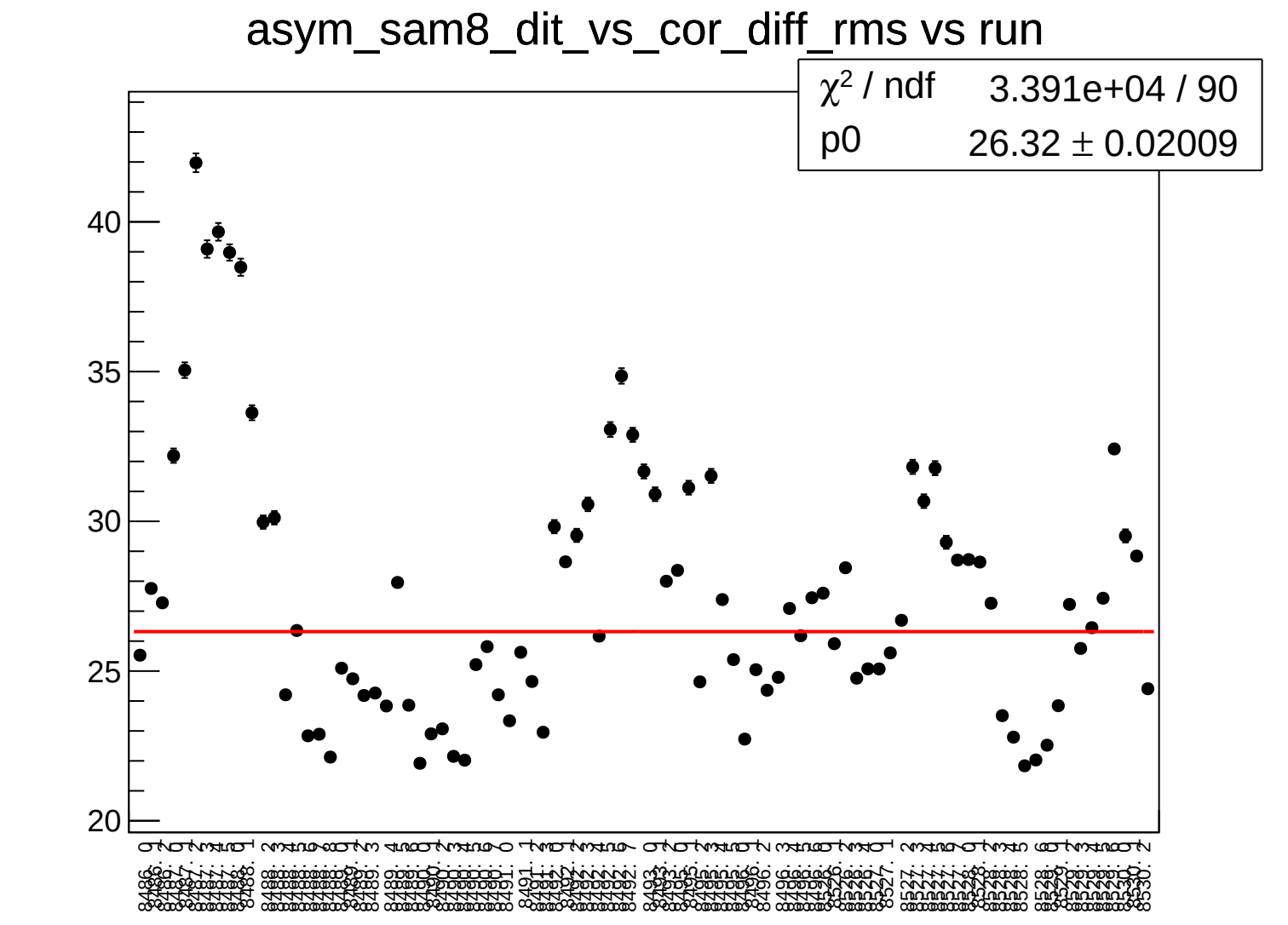

asym_sam8_rms vs run
χ^2 / ndf 1.57e+04 / 90
p0 339.6 ± 0.2579
400
380
360
340
320
300
280

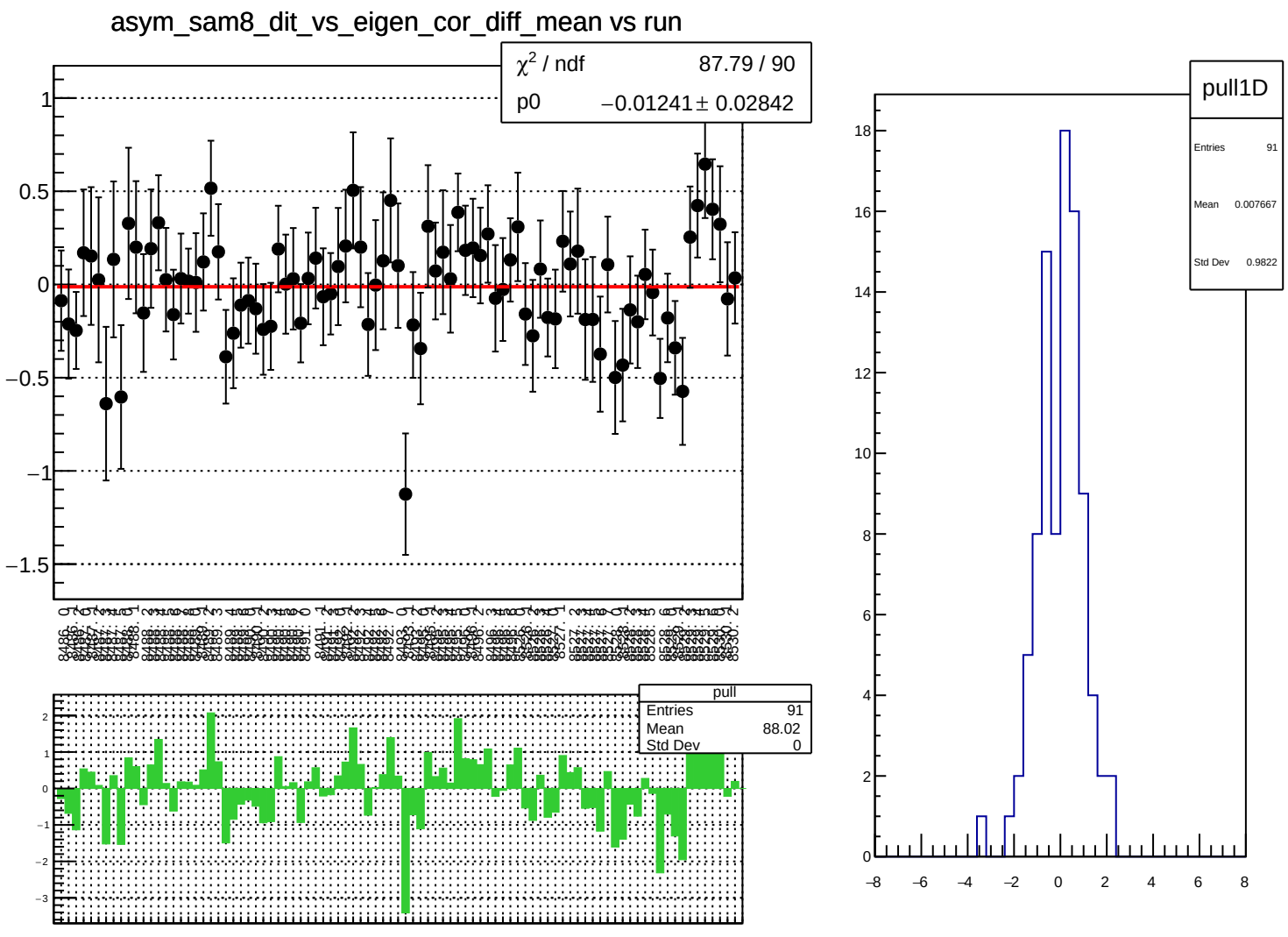

asym_sam8_reg_vs_cor_diff_mean vs run
χ² / ndf 81.08 / 90
p0 −5.844e−14 ± 5.045e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 91
Mean 239.1
Std Dev 0
2
1
0
−1
−2

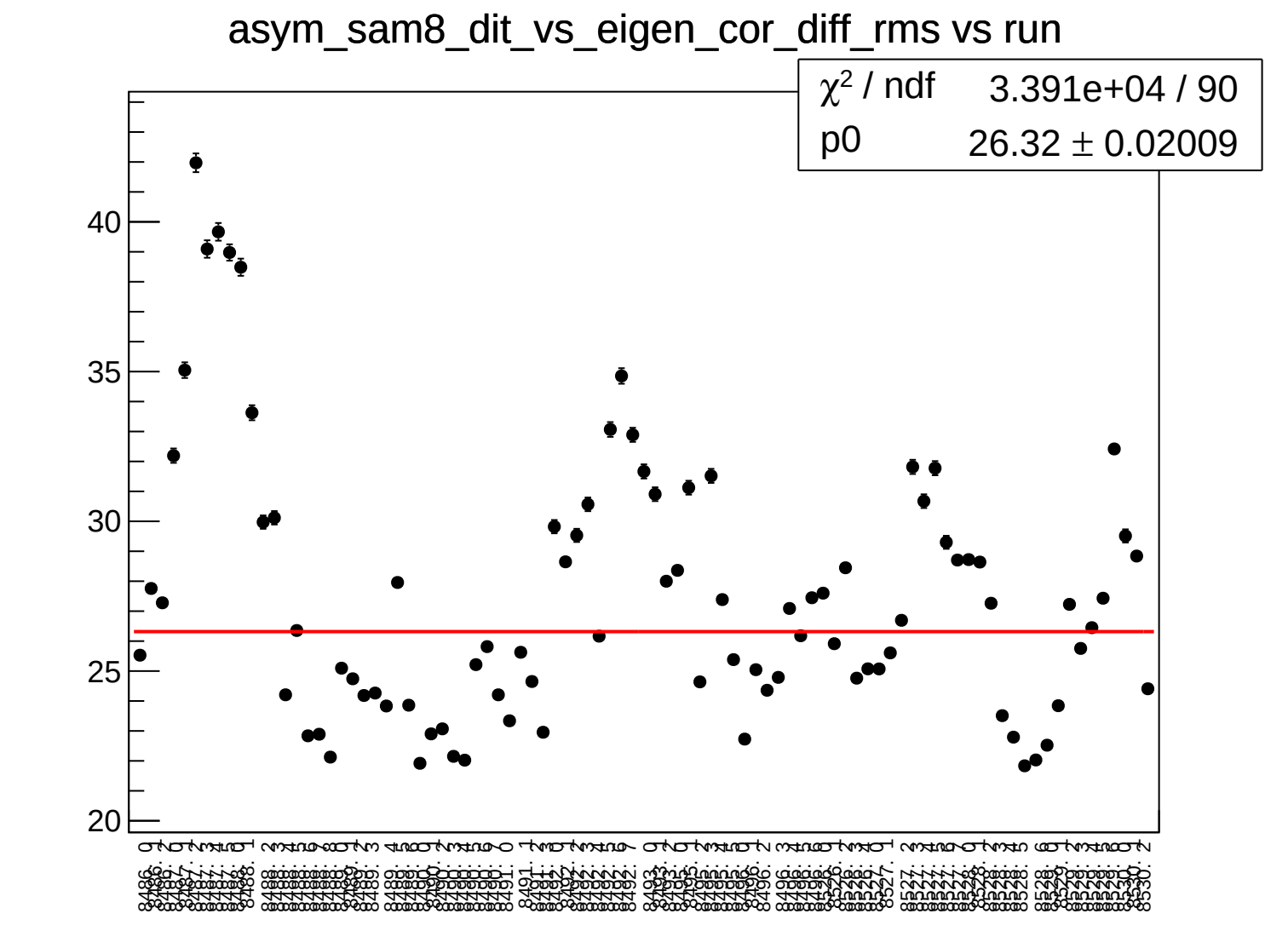

pull1D
Entries 91
Mean −0.01082
Std Dev 0.9439
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

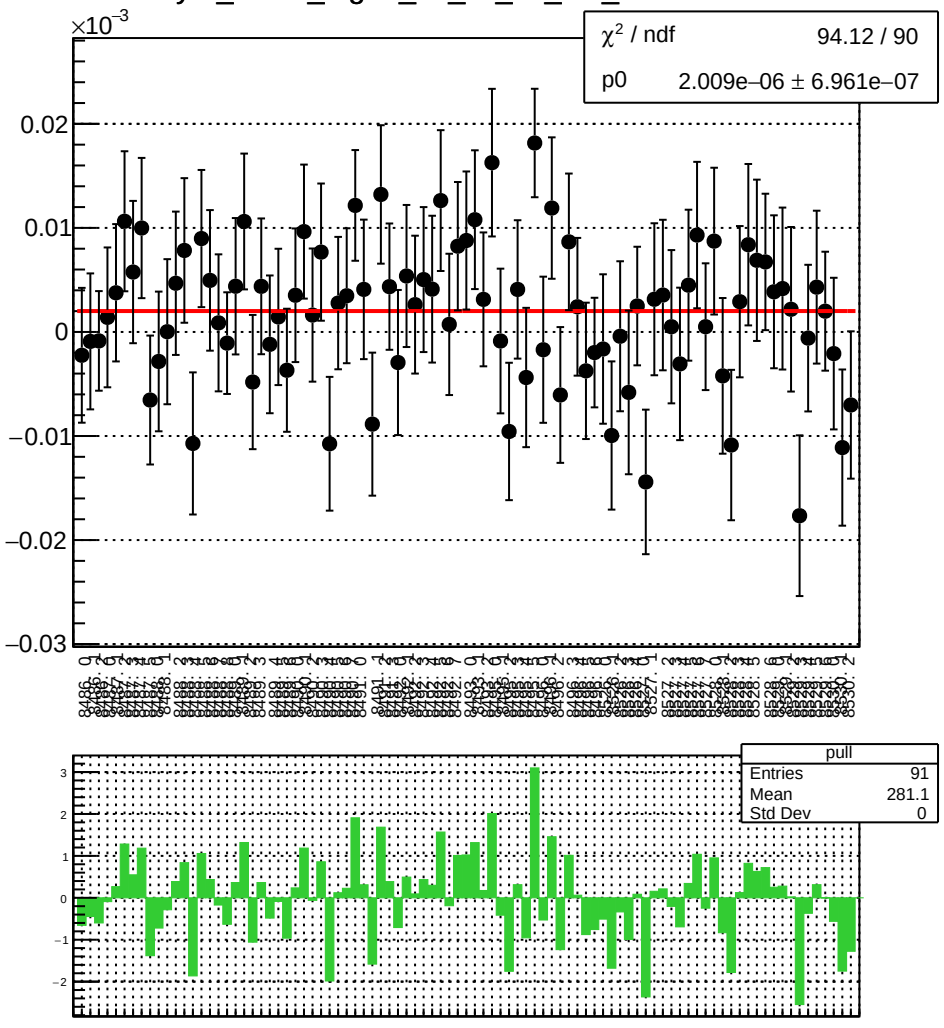

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 1.057e+06 / 90
p0 2.968e−11 ± 3.567e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

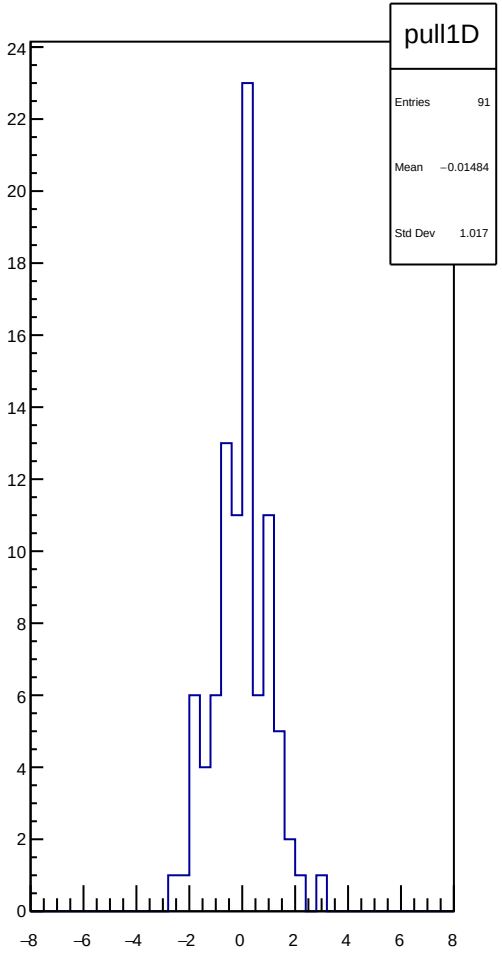

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 87.79 / 90
p0 −0.01241 ± 0.02842
pull
Entries 91
Mean 88.02
Std Dev 0
pull1D
Entries 91
Mean 0.007667
Std Dev 0.9822

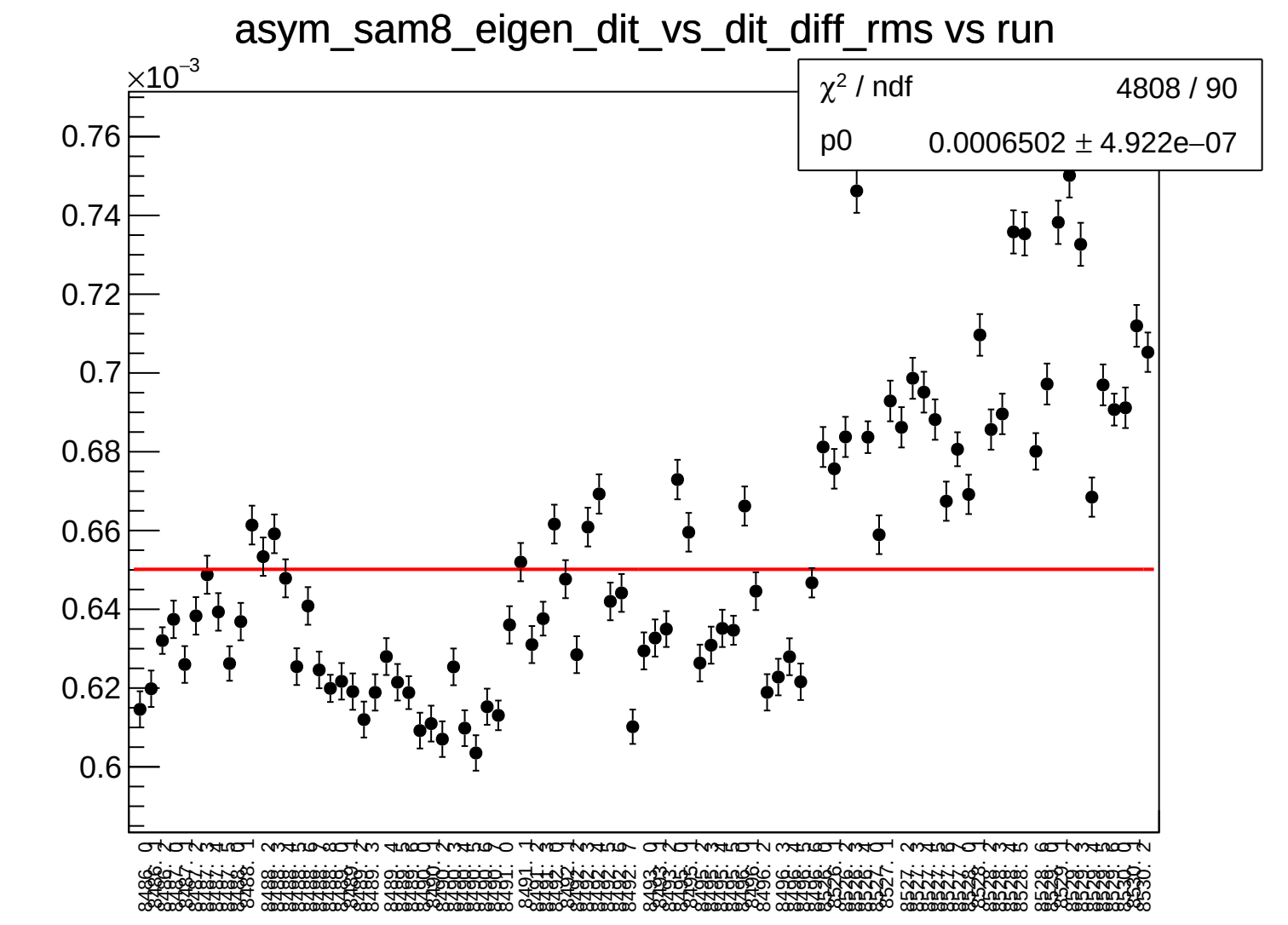

asym_sam8_dit_vs_cor_diff_rms vs run
χ² / ndf 3.391e+04 / 90
p0 26.32 ± 0.02009
40
35
30
25
20

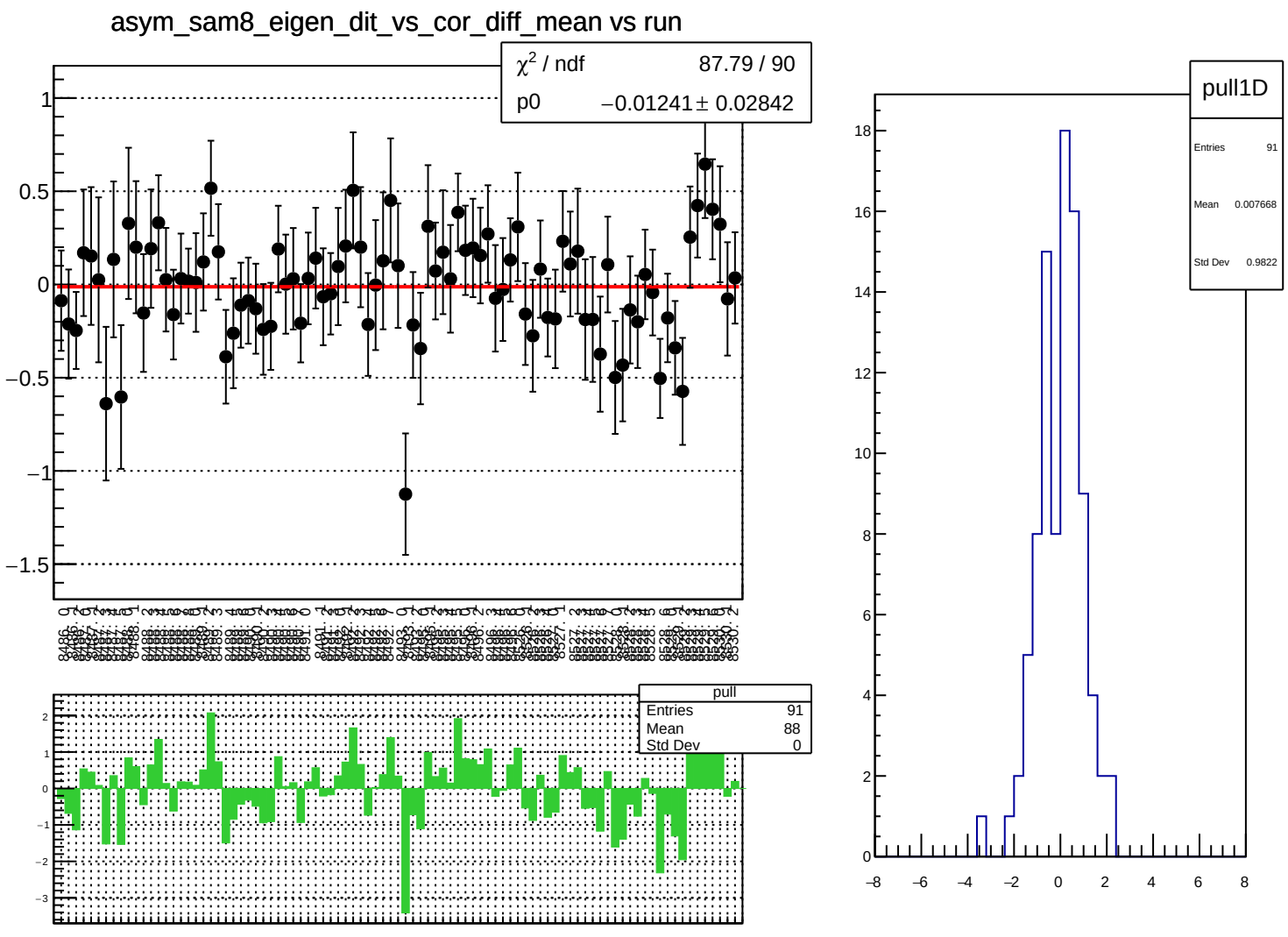

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.79 / 90
p0 −0.01241 ± 0.02842
pull
Entries 91
Mean 88.02
Std Dev 0
pull1D
Entries 91
Mean 0.007667
Std Dev 0.9822

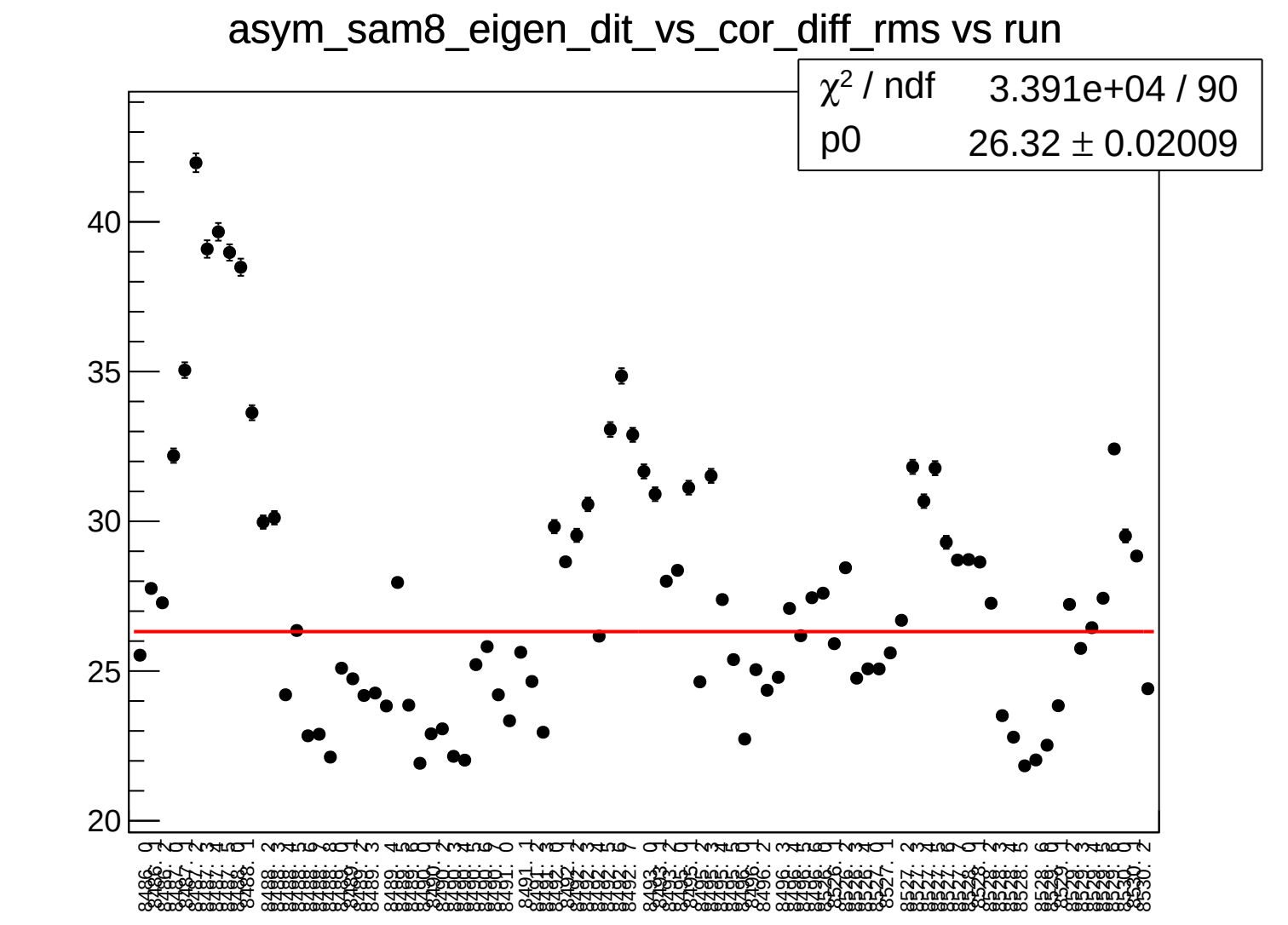

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 3.391e+04 / 90
p0 26.32 ± 0.02009
40
35
30
25
20

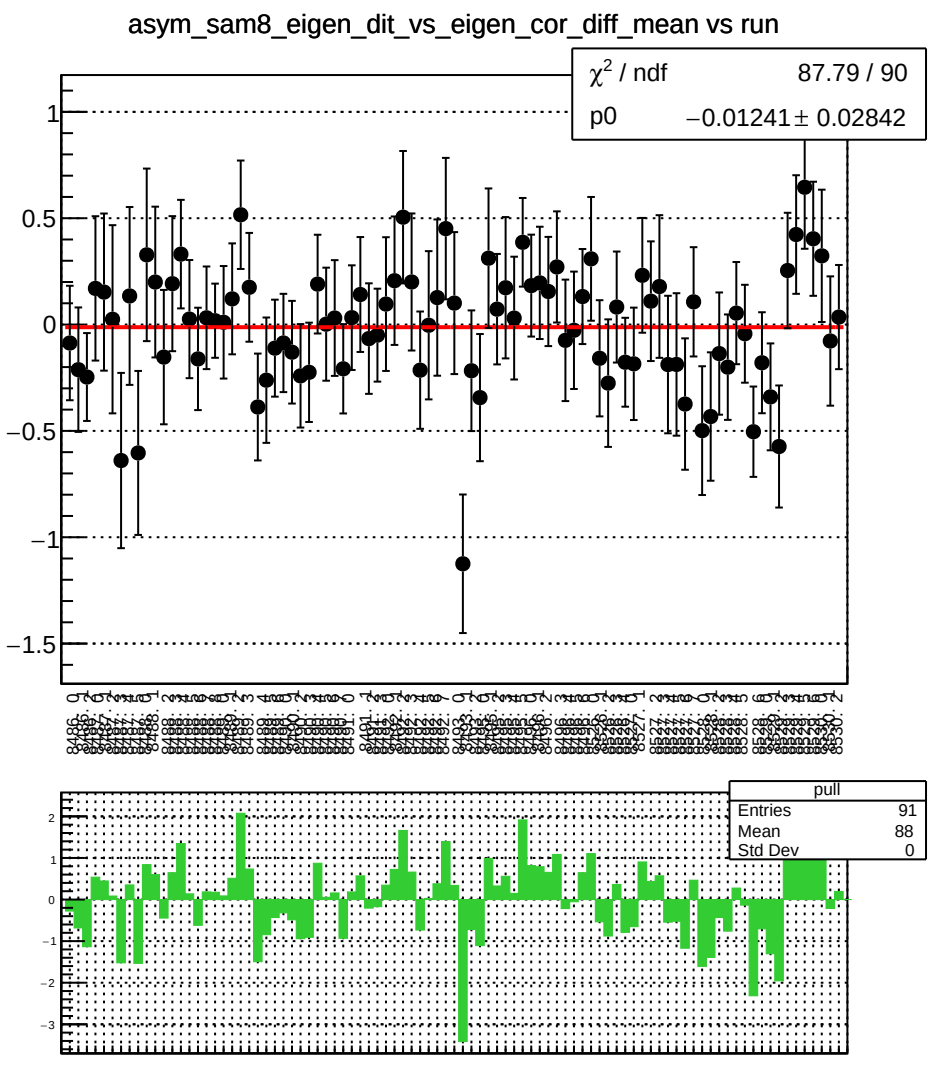

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.12 / 90
p0 2.009e−06 ± 6.961e−07
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 91
Mean 281.1
Std Dev 0
3
2
1
0
−1
−2

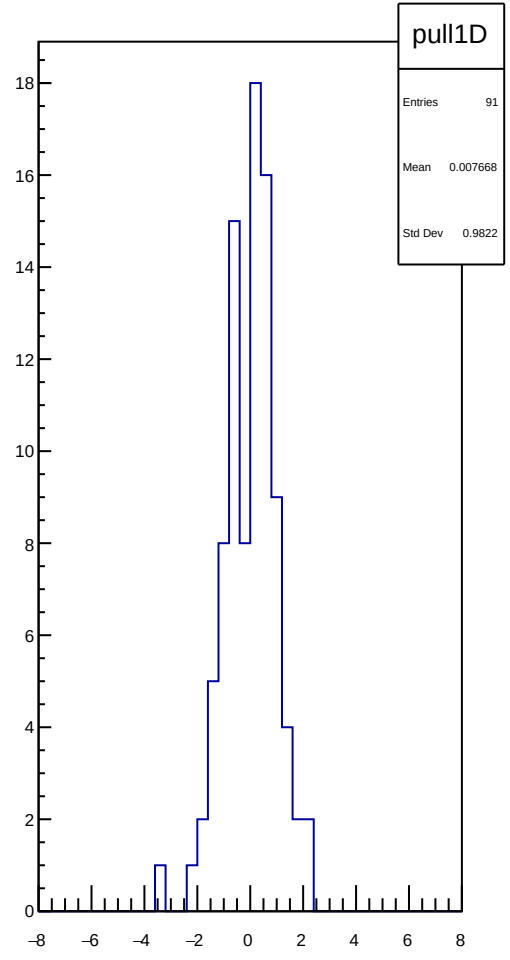

pull1D
Entries 91
Mean −0.01484
Std Dev 1.017
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

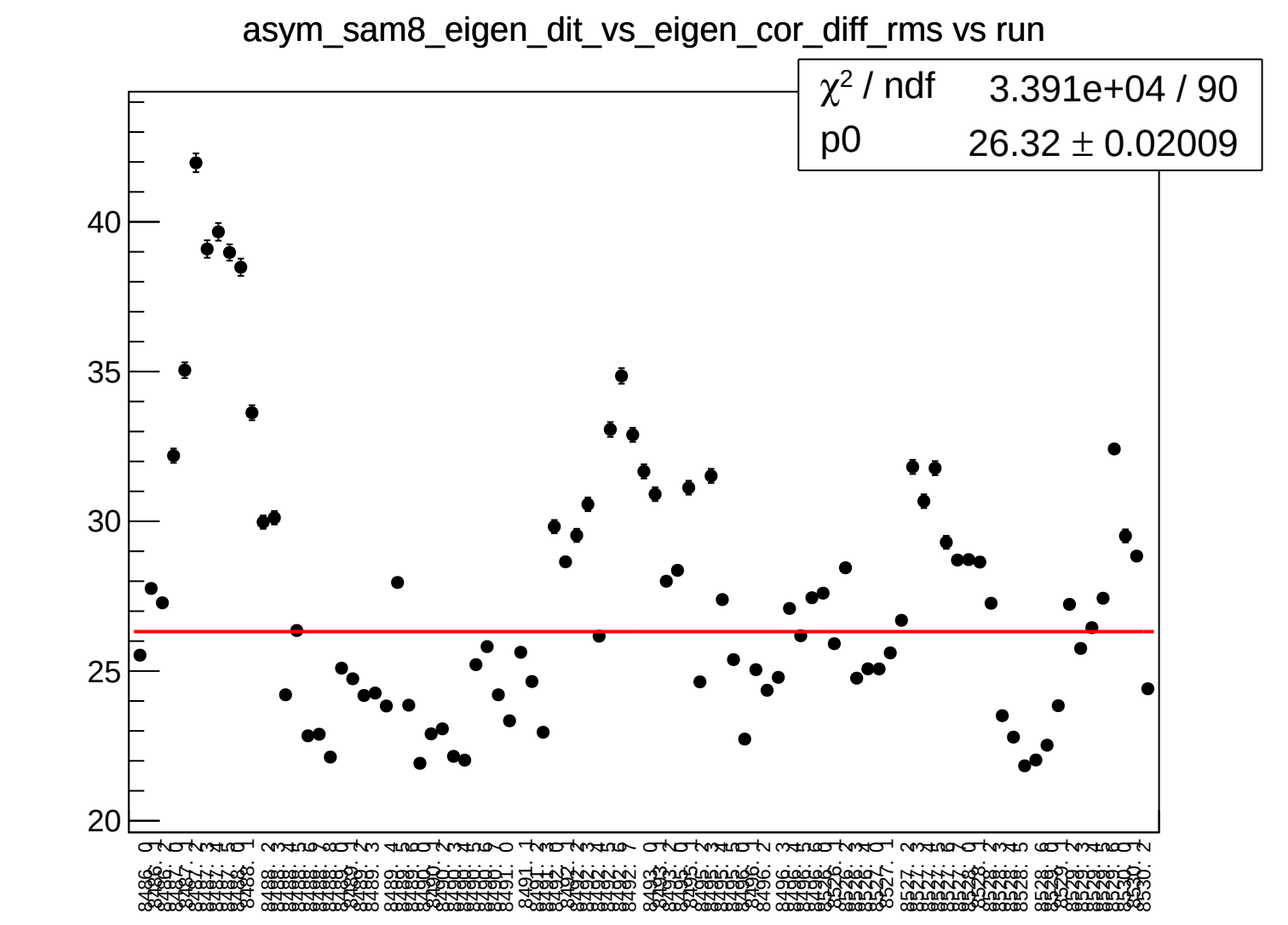

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 4808 / 90
p0 0.0006502 ± 4.922e−07
0.76
0.74
0.72
0.7
0.68
0.66
0.64
0.62
0.6

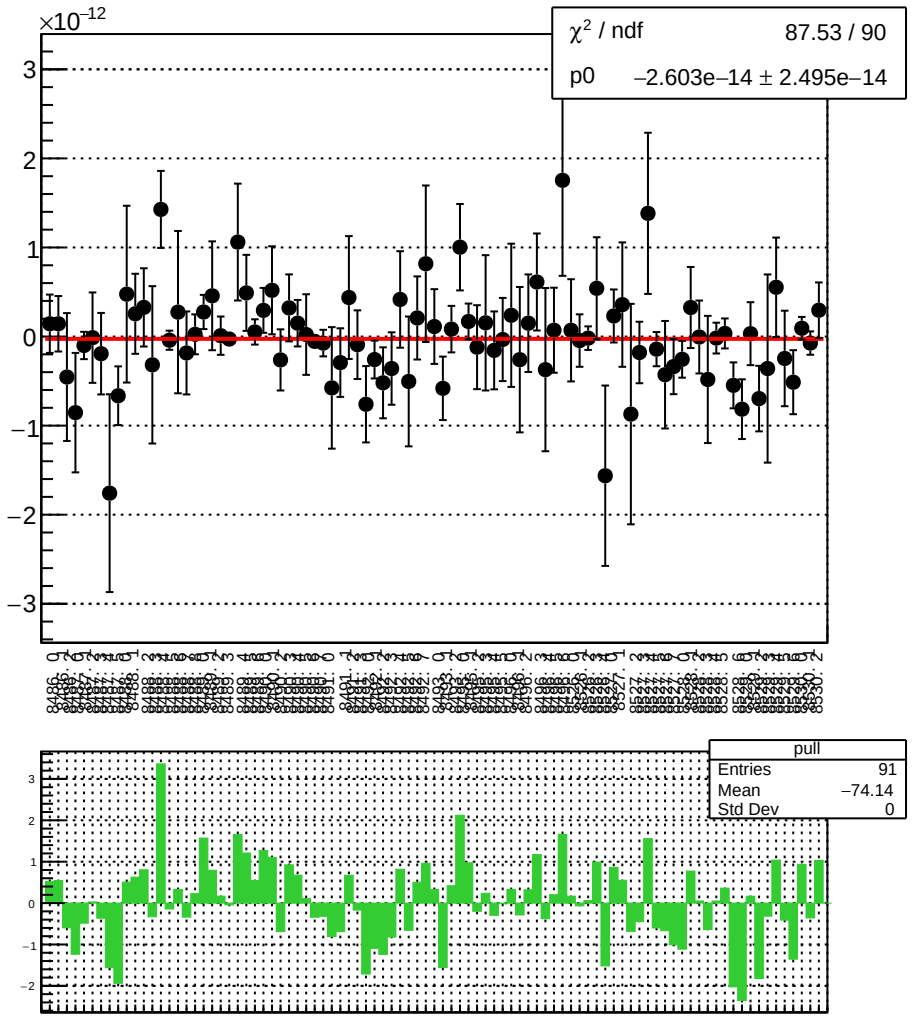

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.79 / 90
p0 −0.01241 ± 0.02842
pull
Entries 91
Mean 88
Std Dev 0
pull1D
Entries 91
Mean 0.007668
Std Dev 0.9822

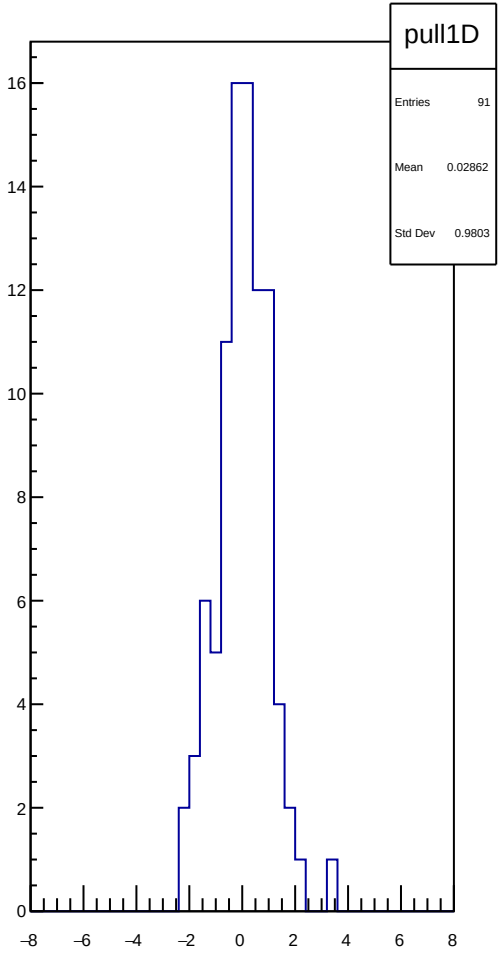

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.391e+04 / 90
p0 26.32 ± 0.02009
40
35
30
25
20

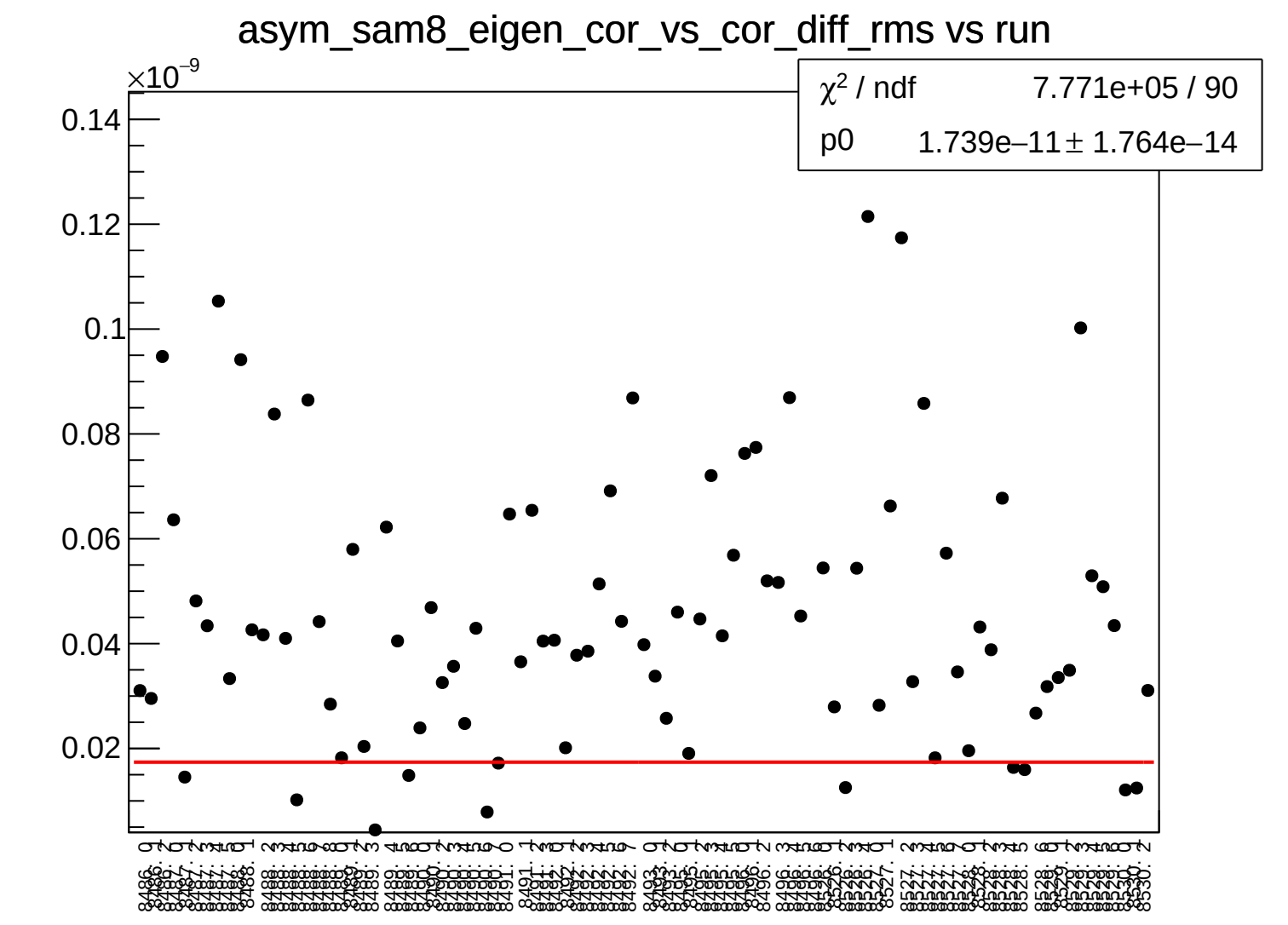

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.79 / 90
p0 −0.01241 ± 0.02842
pull
Entries 91
Mean 88
Std Dev 0

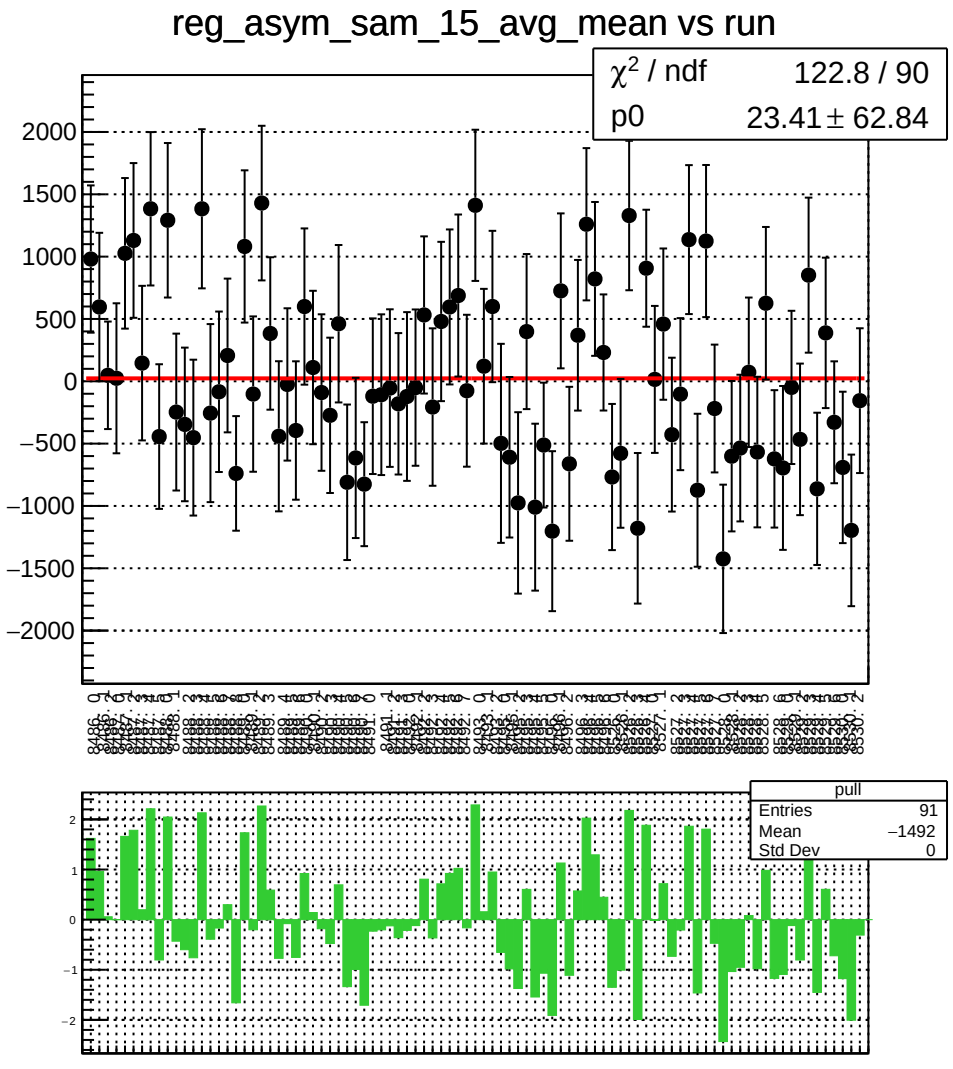

pull1D
Entries 91
Mean 0.007668
Std Dev 0.9822

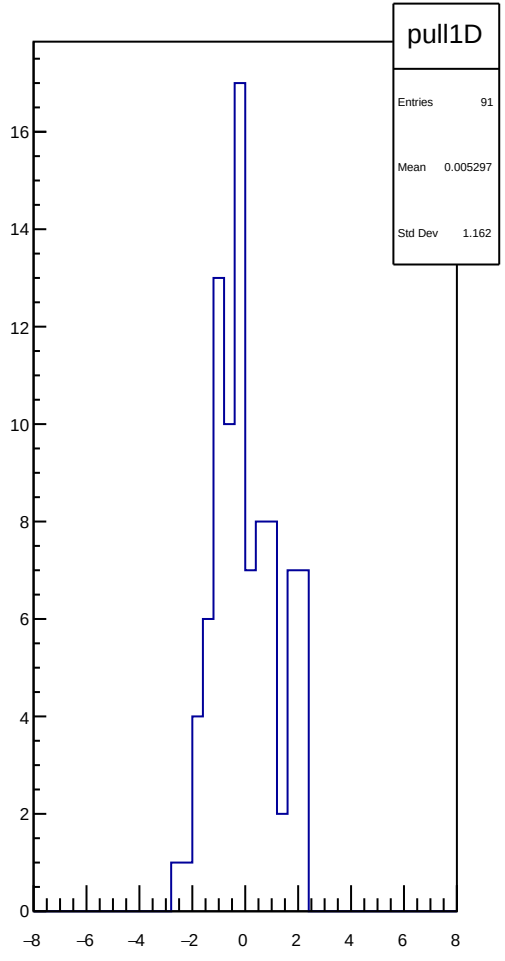

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.391e+04 / 90
p0 26.32 ± 0.02009
40
35
30
25
20

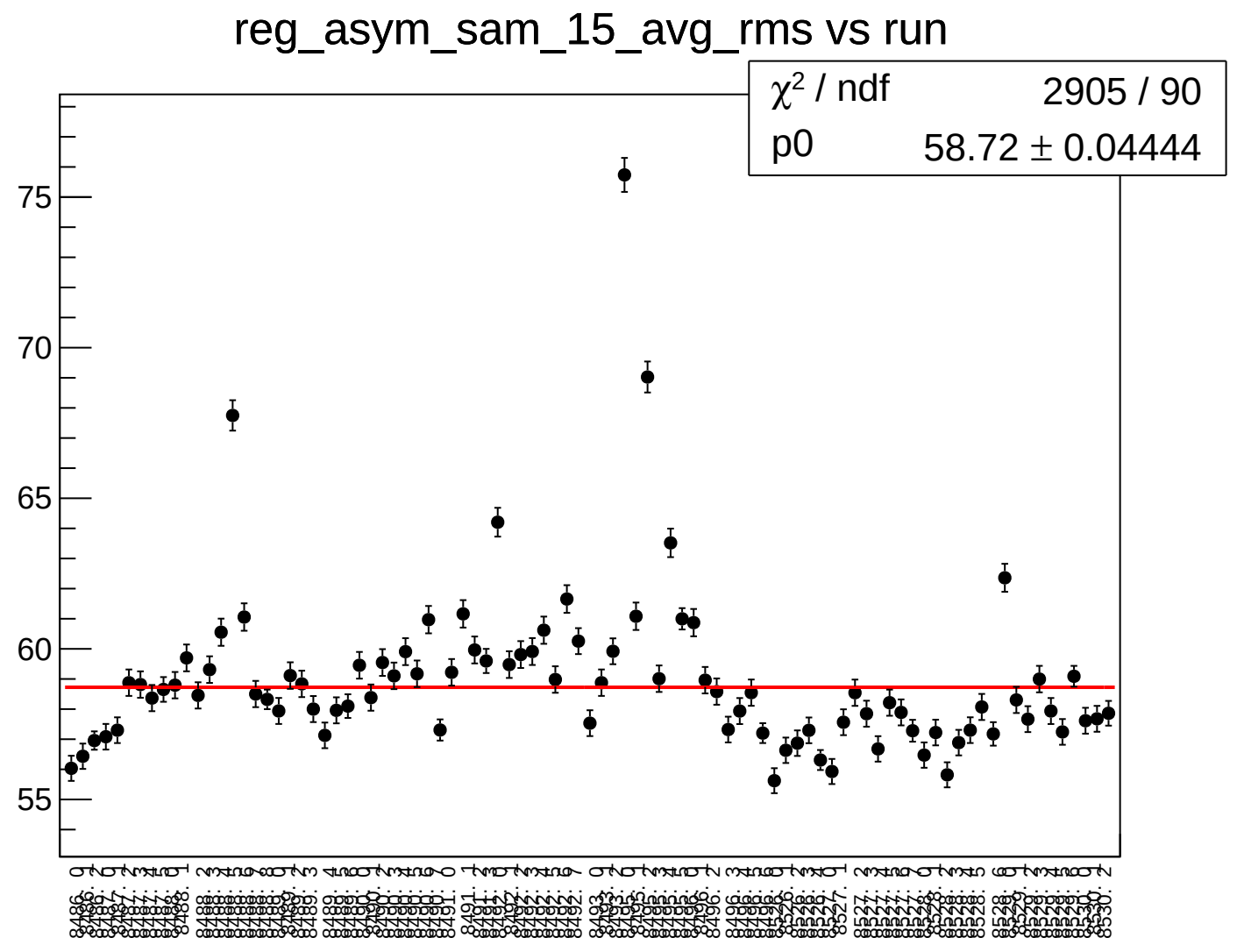

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 87.53 / 90
p0 −2.603e−14 ± 2.495e−14
pull
Entries 91
Mean −74.14
Std Dev 0

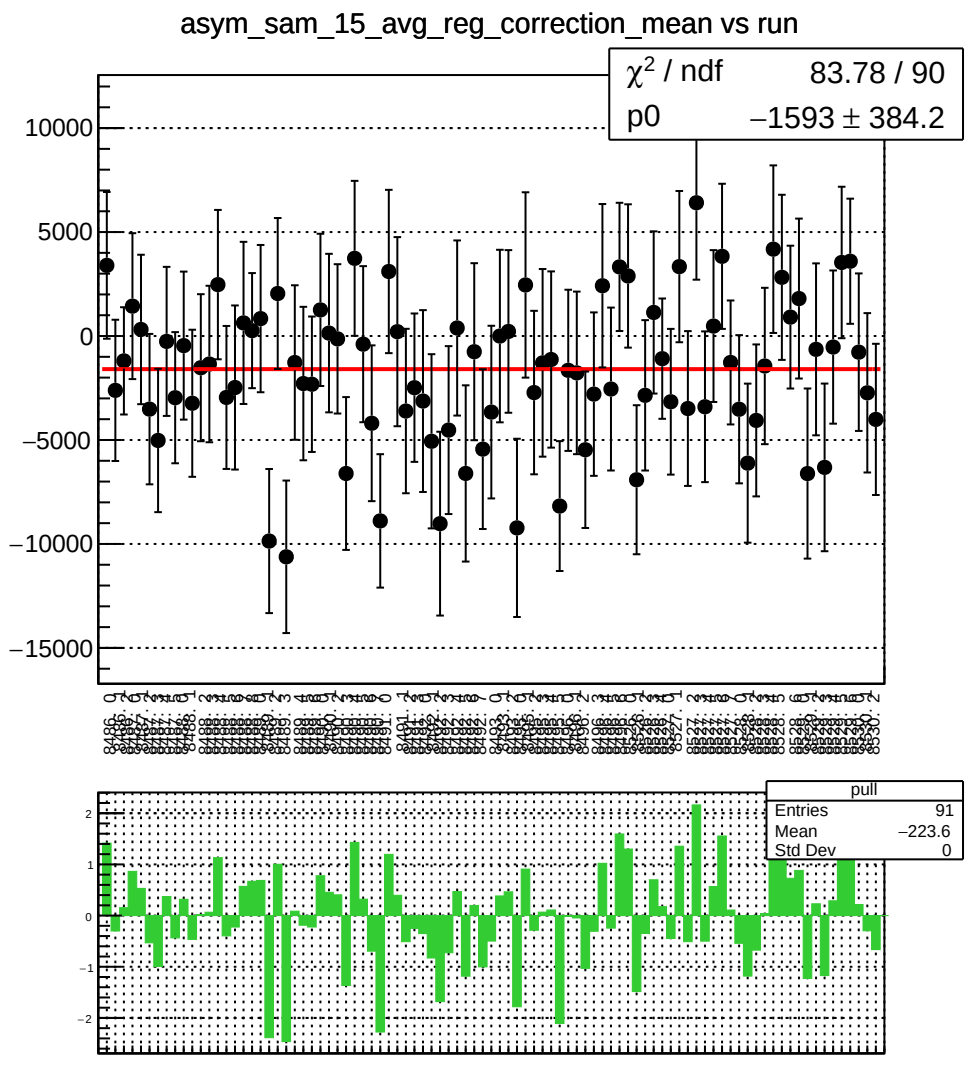

pull1D
Entries 91
Mean 0.02862
Std Dev 0.9803

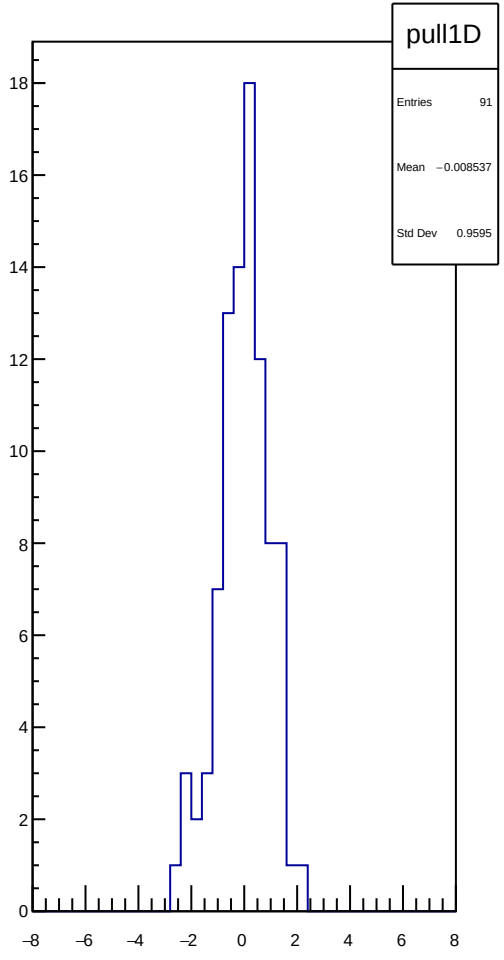

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.14
0.12
0.1
0.08
0.06
0.04
0.02
χ² / ndf 7.771e+05 / 90
p0 1.739e−11 ± 1.764e−14

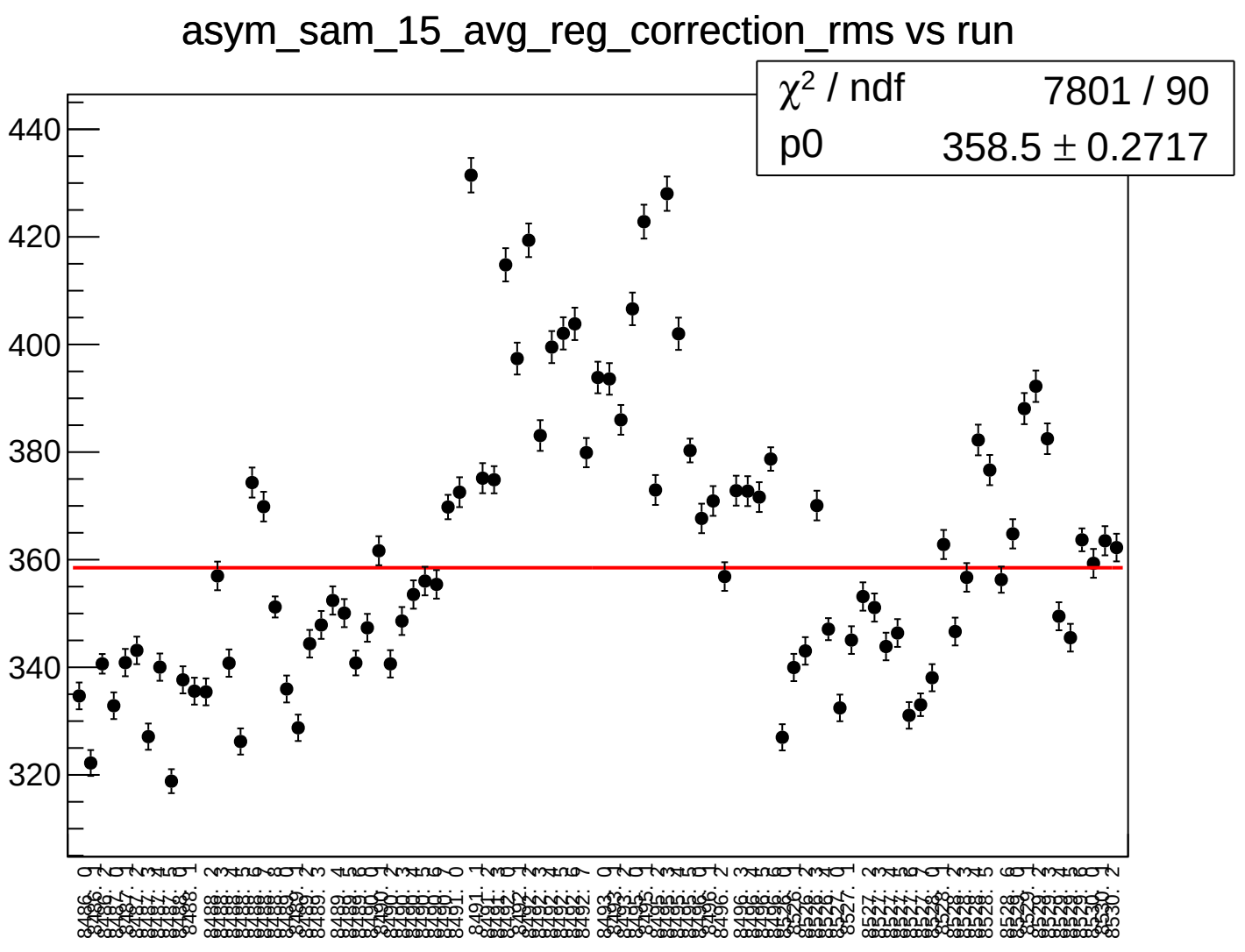

reg_asym_sam_15_avg_mean vs run
χ^2 / ndf 122.8 / 90
p0 23.41 ± 62.84
2000
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 91
Mean −1492
Std Dev 0
2
1
0
−1
−2

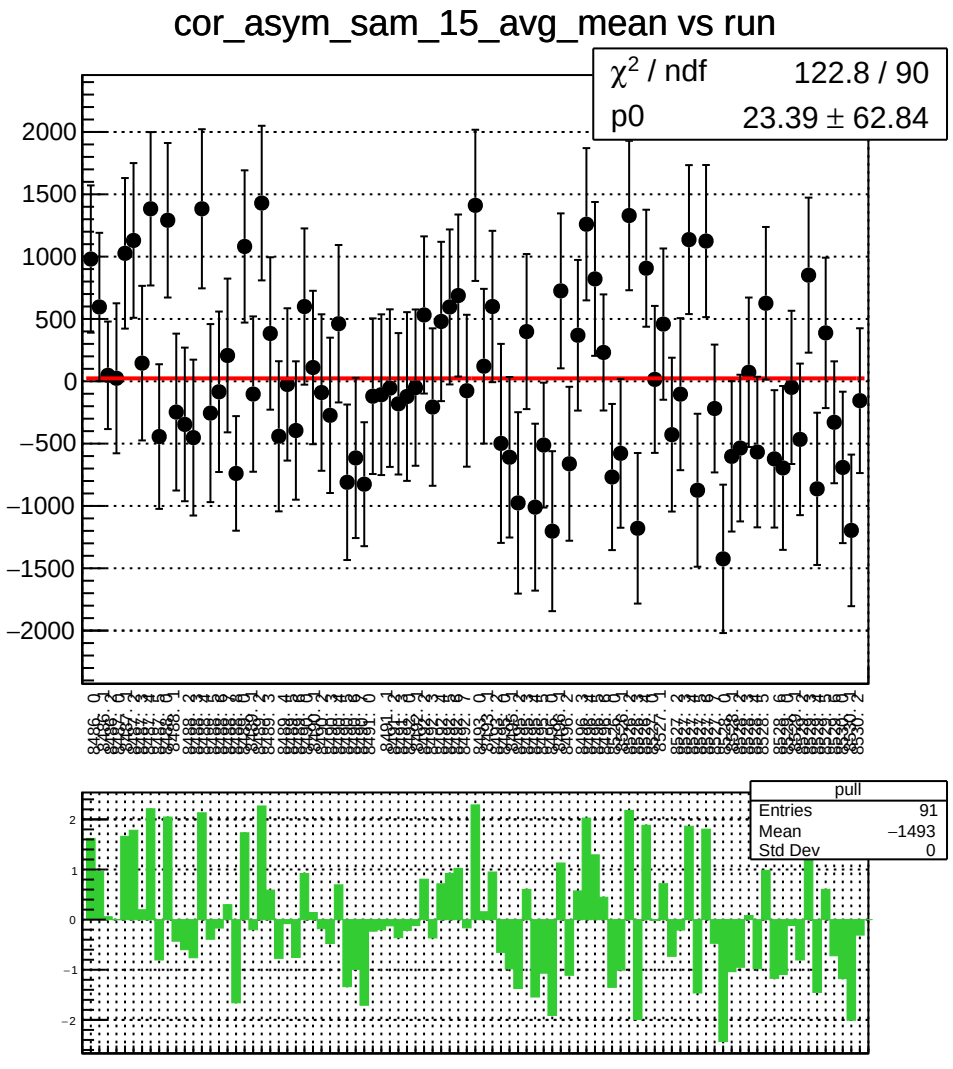

pull1D
Entries 91
Mean 0.005297
Std Dev 1.162
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

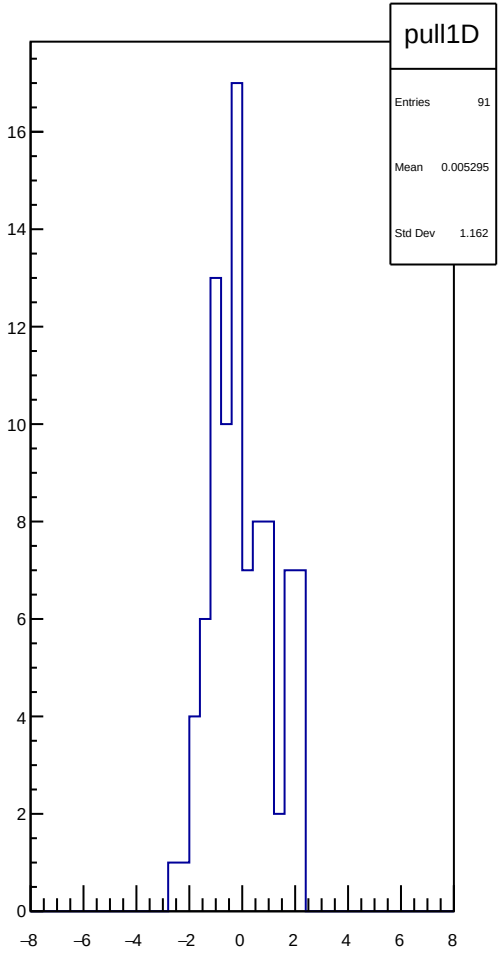

reg_asym_sam_15_avg_rms vs run
χ^2 / ndf 2905 / 90
p0 58.72 ± 0.04444
75
70
65
60
55

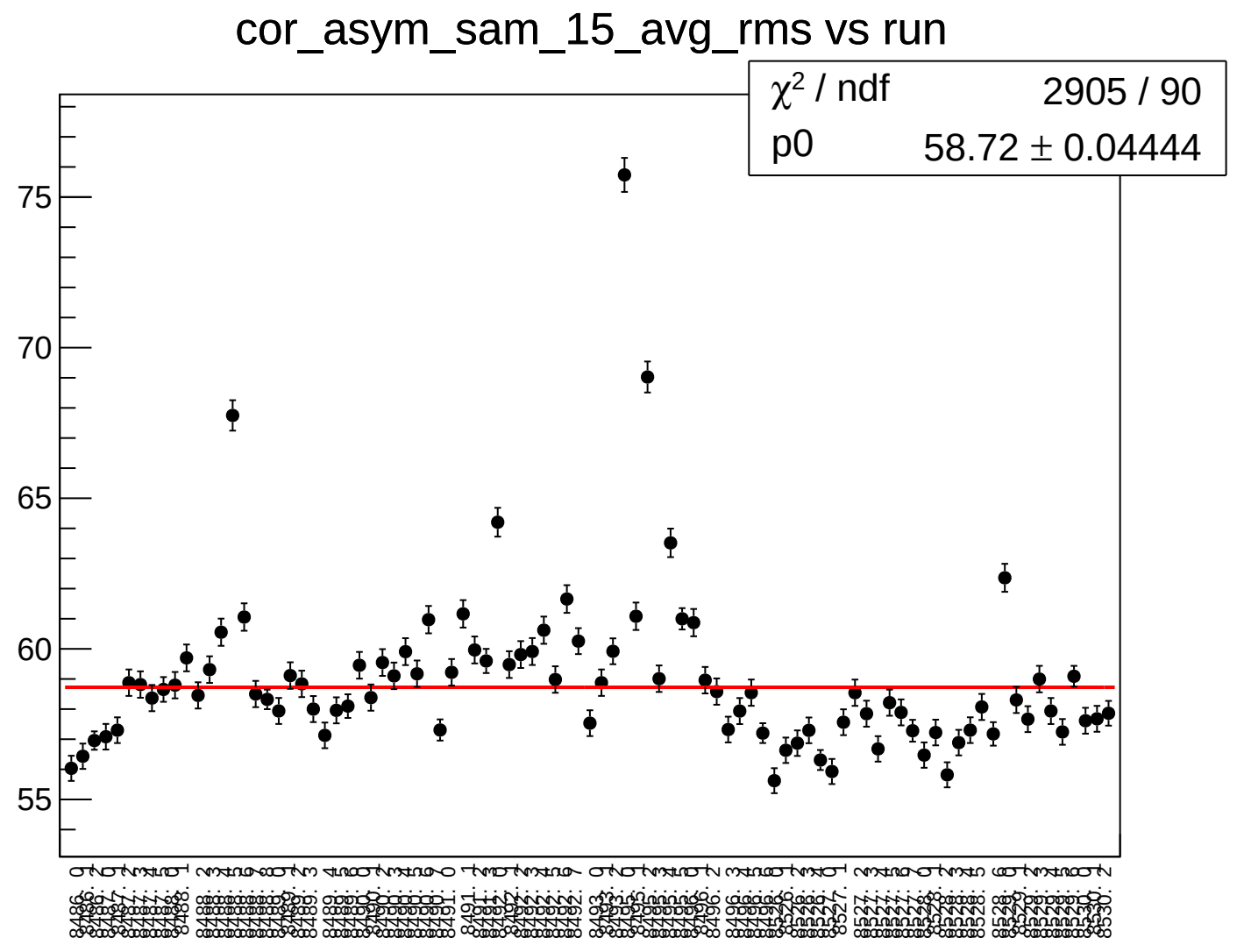

asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 83.78 / 90
p0 −1593 ± 384.2
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean −223.6
Std Dev 0
2
1
0
−1
−2

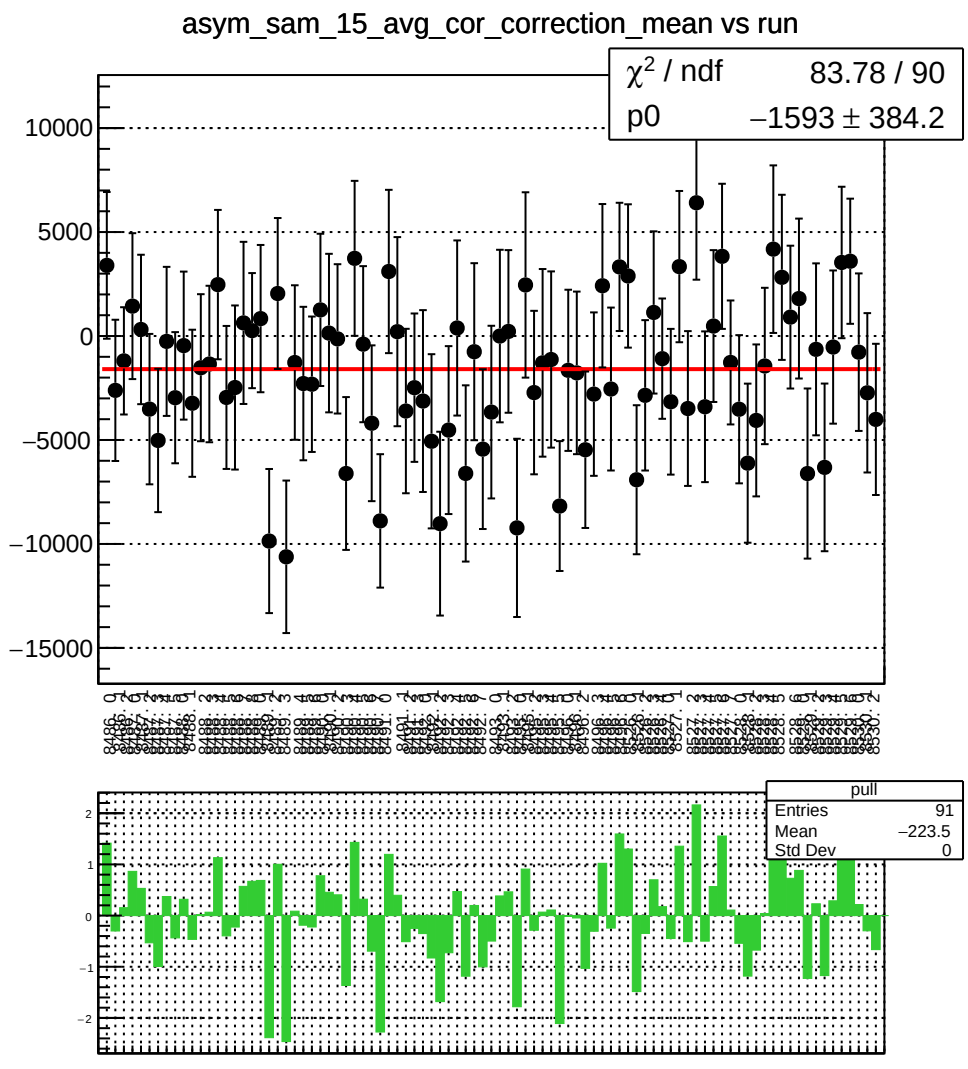

pull1D
Entries 91
Mean −0.008537
Std Dev 0.9595
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

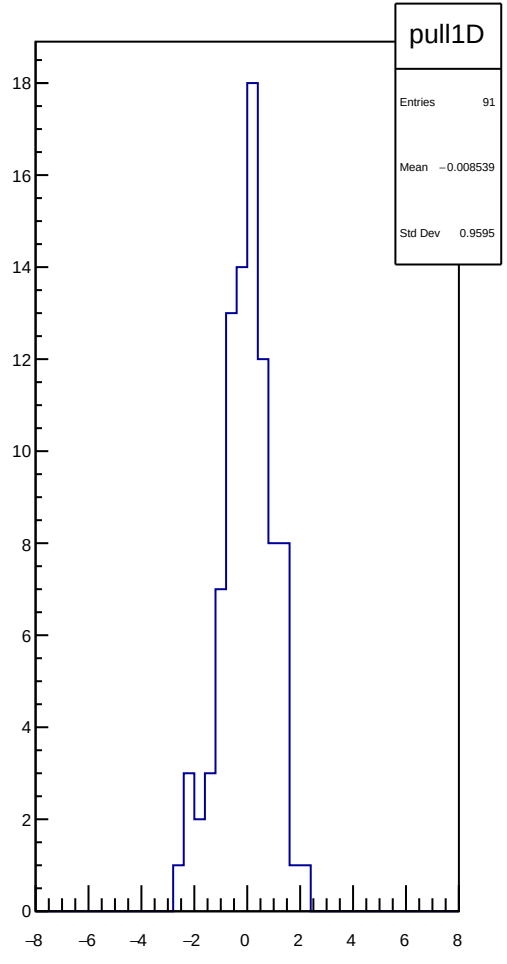

asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 7801 / 90
p0 358.5 ± 0.2717
440
420
400
380
360
340
320

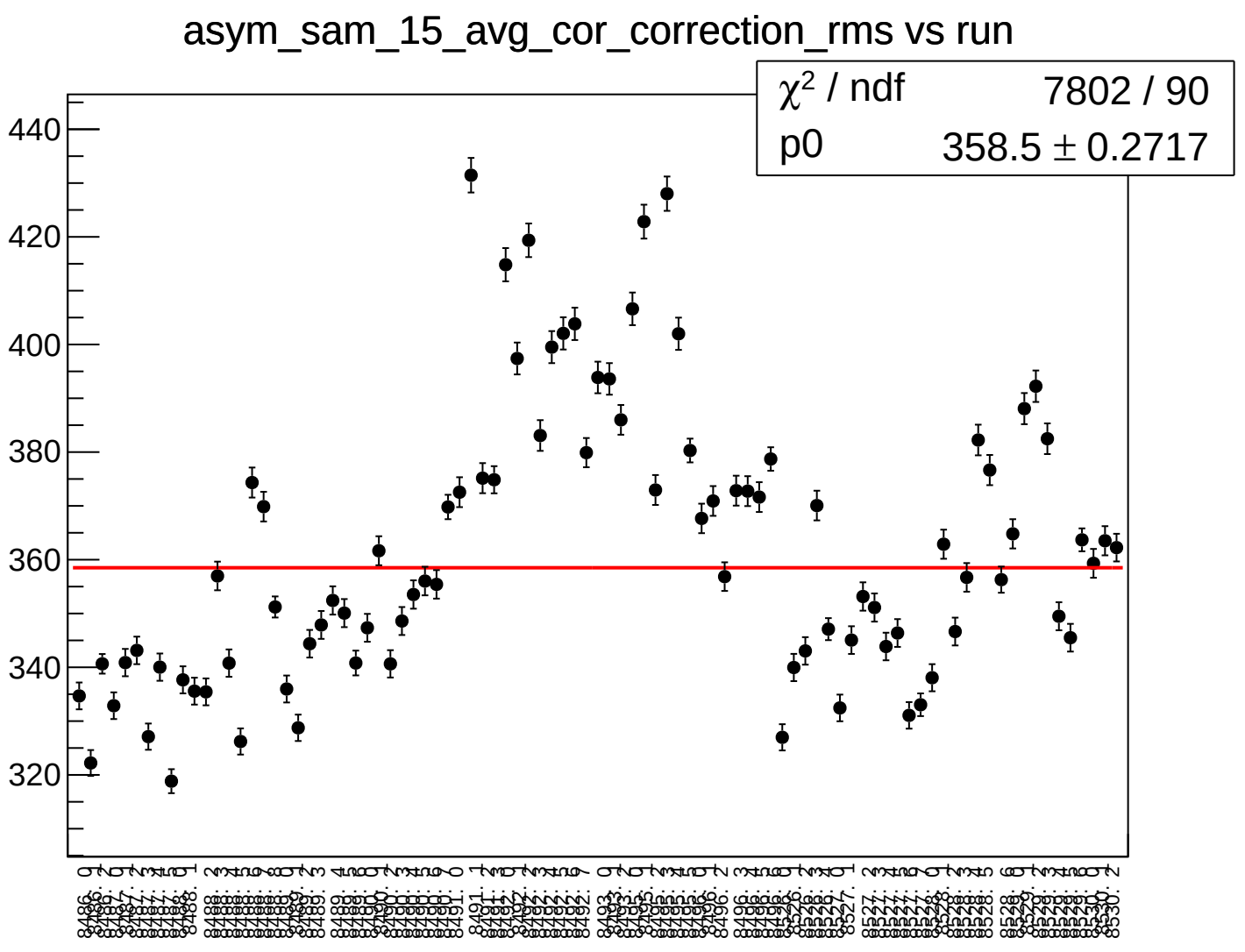

cor_asym_sam_15_avg_mean vs run
χ² / ndf 122.8 / 90
p0 23.39 ± 62.84
pull
Entries 91
Mean −1493
Std Dev 0

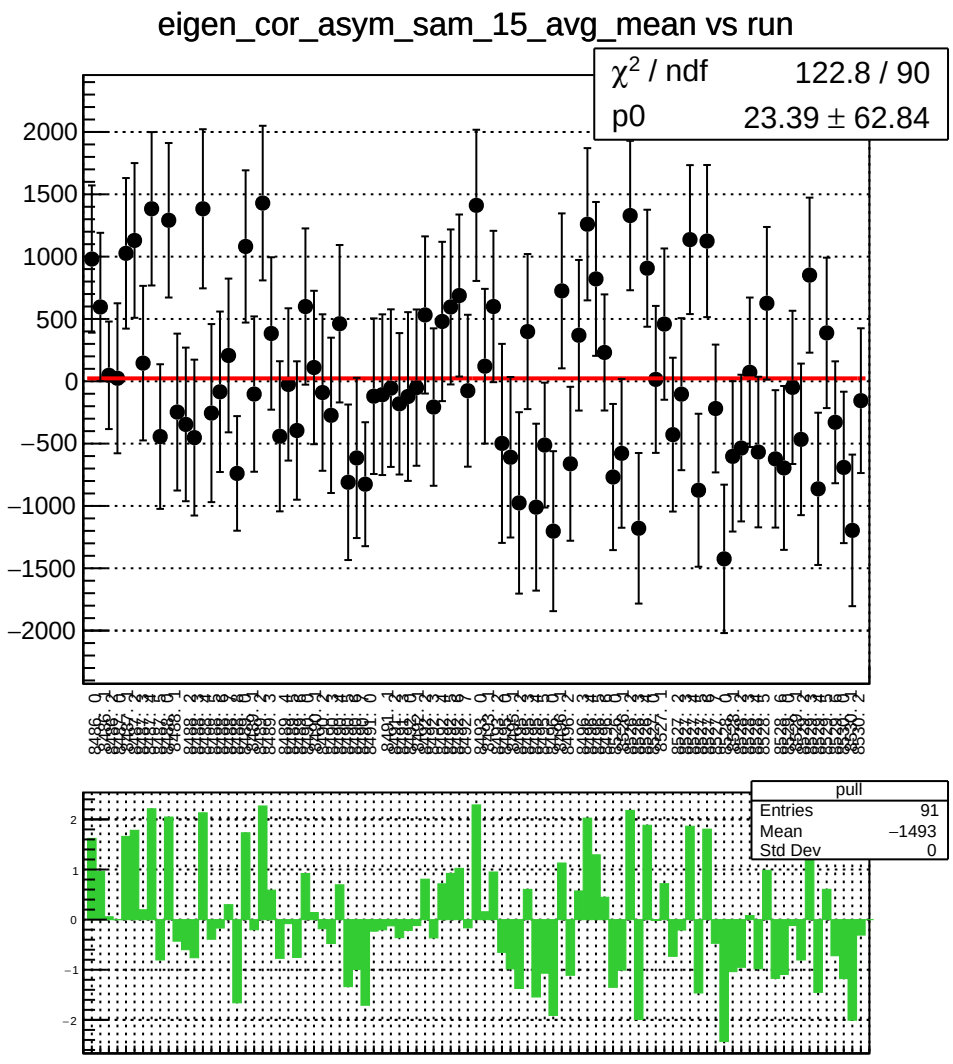

pull1D
Entries 91
Mean 0.005295
Std Dev 1.162

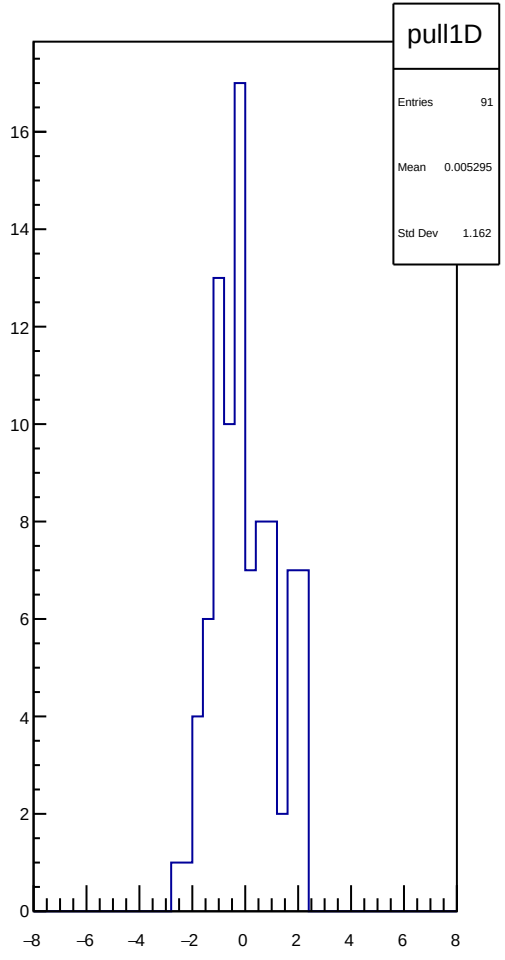

cor_asym_sam_15_avg_rms vs run
χ² / ndf 2905 / 90
p0 58.72 ± 0.04444
75
70
65
60
55


asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 83.78 / 90
p0 −1593 ± 384.2
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean −223.5
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 91
Mean −0.008539
Std Dev 0.9595
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_avg_cor_correction_rms vs run
χ^2 / ndf 7802 / 90
p0 358.5 ± 0.2717
440
420
400
380
360
340
320


eigen_cor_asym_sam_15_avg_mean vs run
χ^2 / ndf 122.8 / 90
p0 23.39 ± 62.84
2000
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 91
Mean −1493
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 91
Mean 0.005295
Std Dev 1.162
16
14
12
10
8
6
4
2
0
−8
−6
−4
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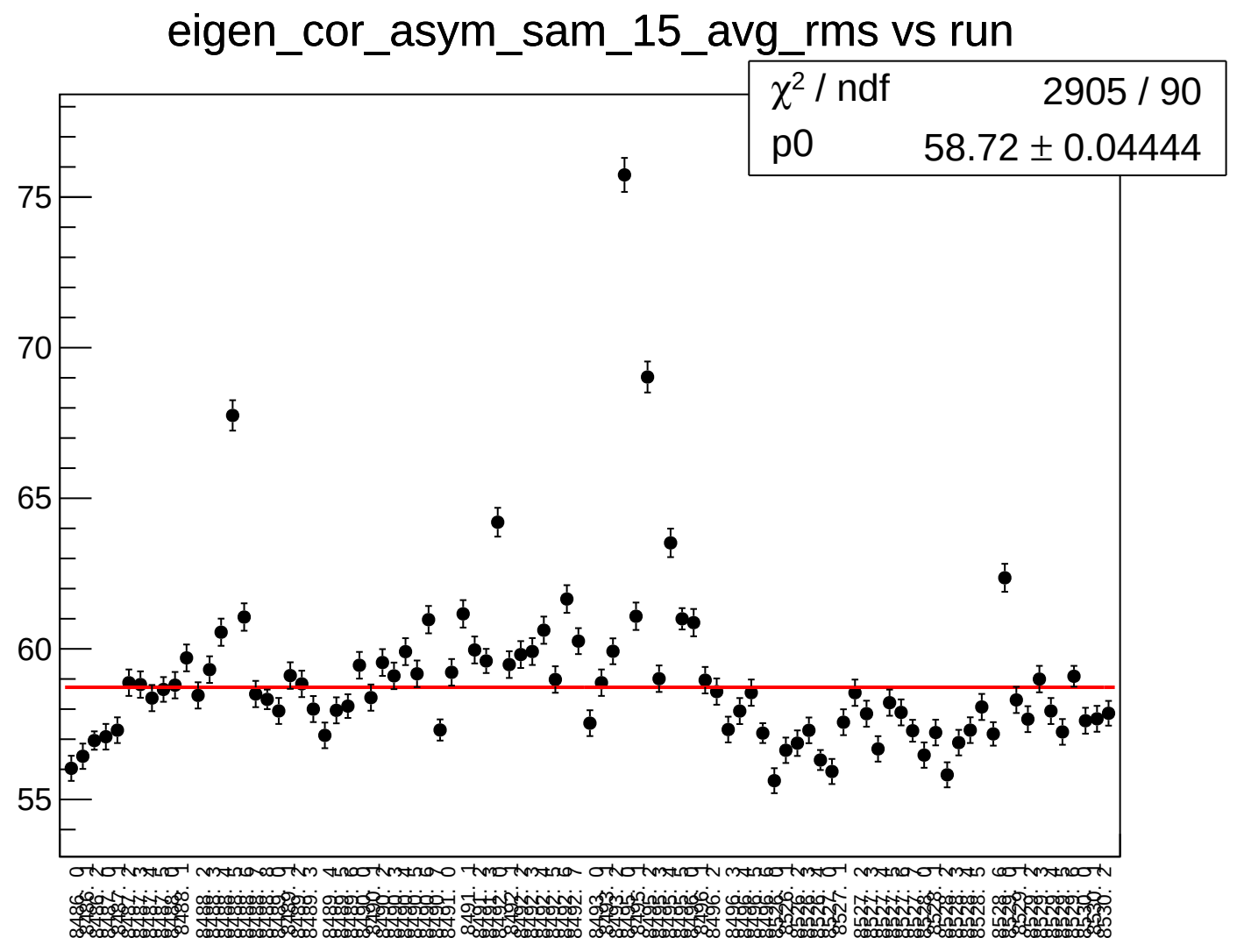
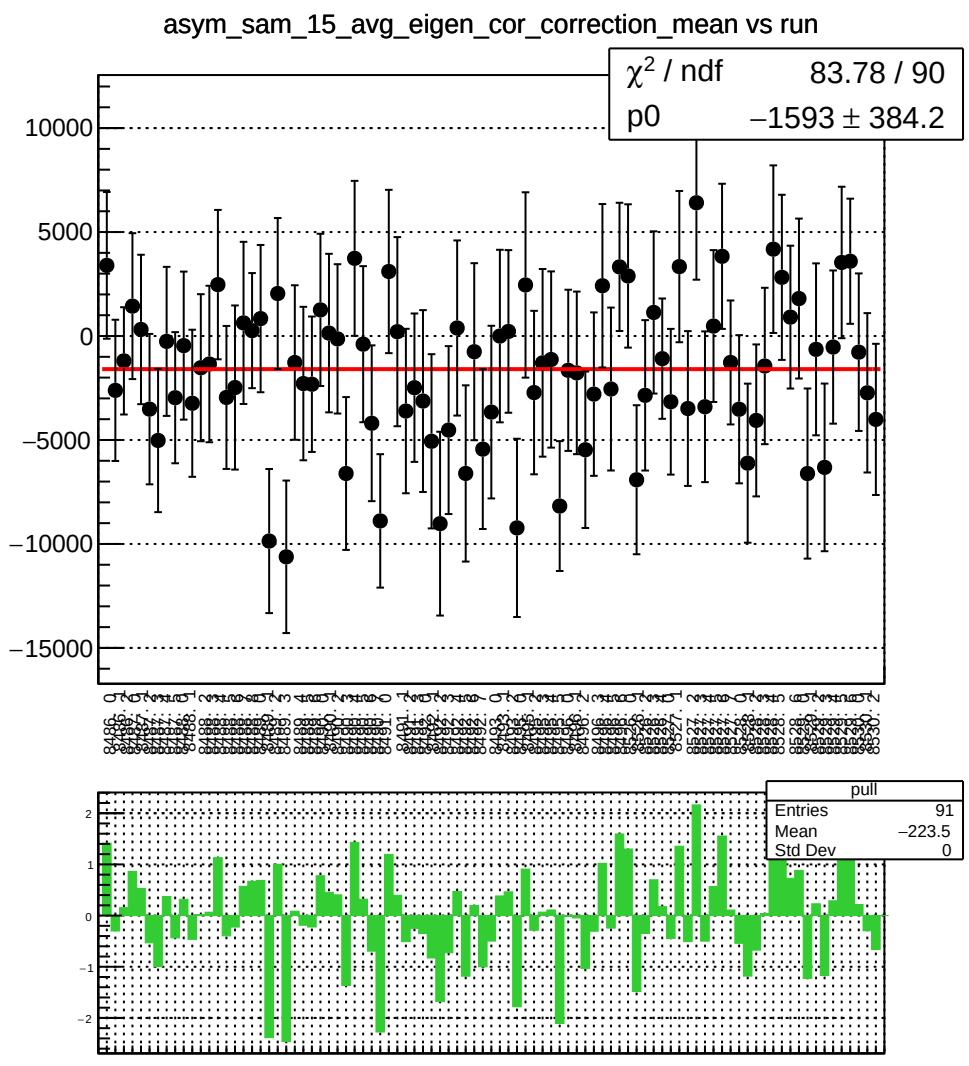
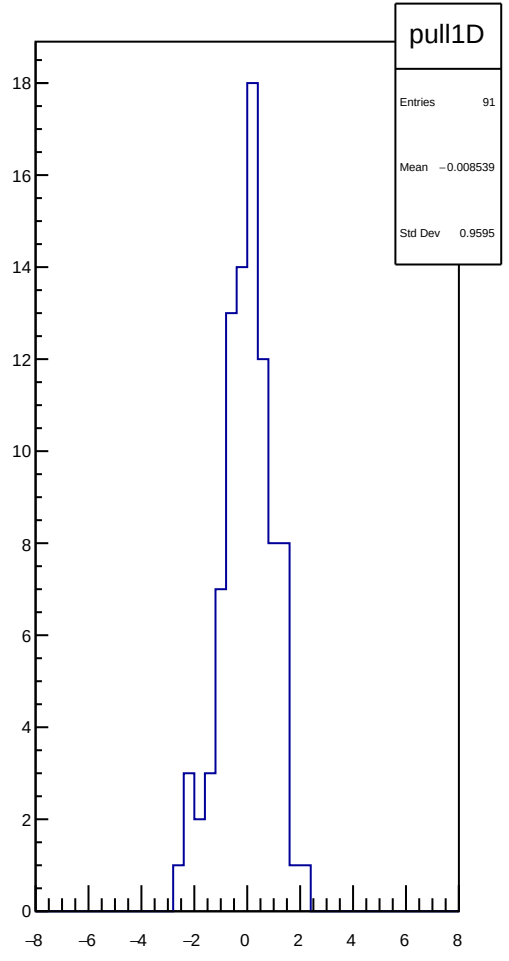
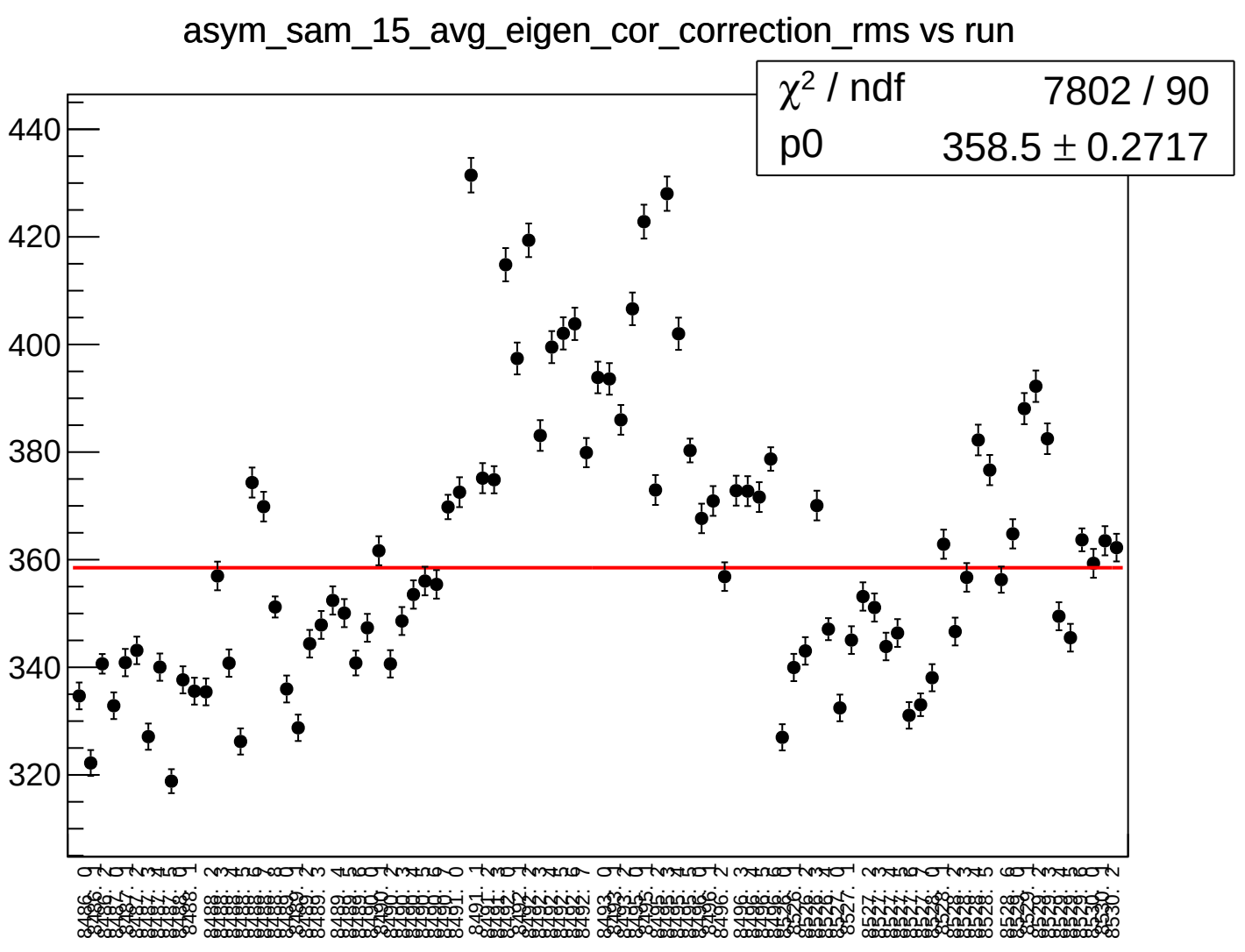
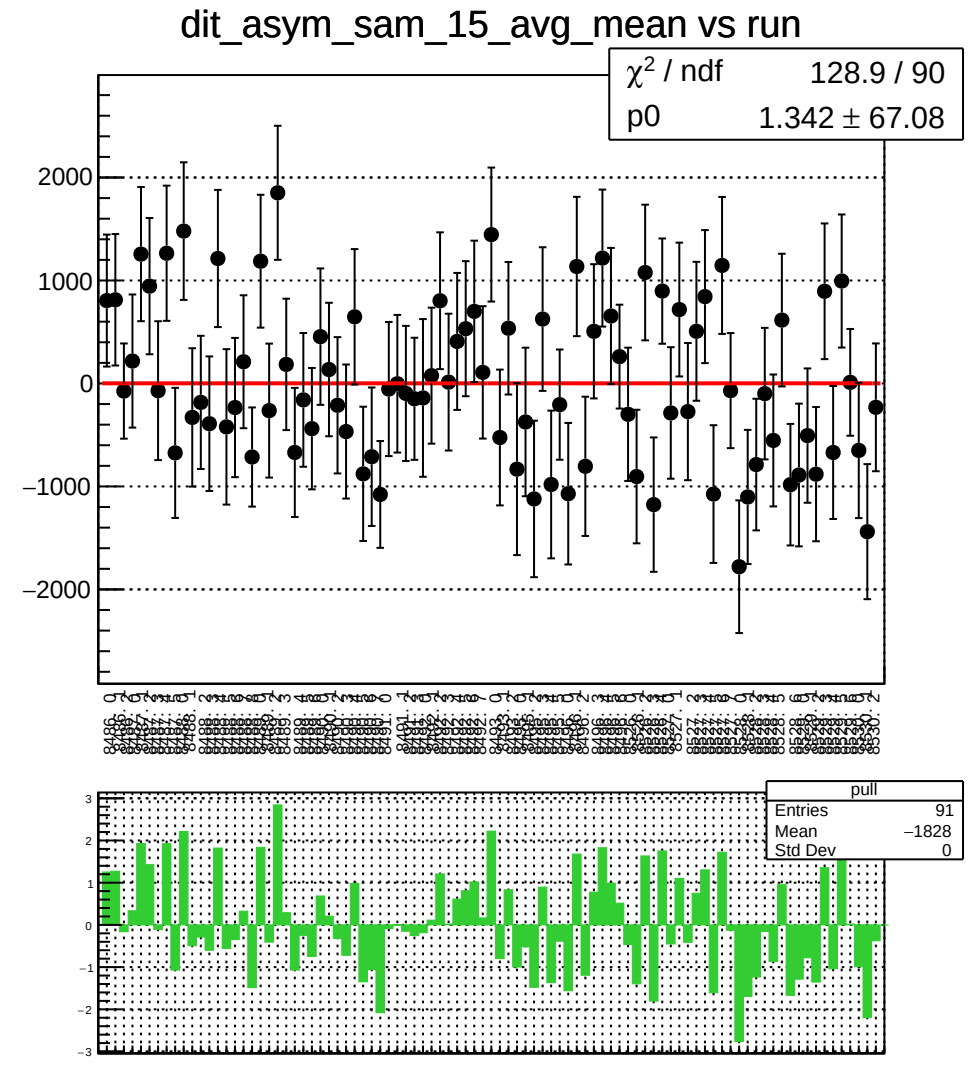
0
2
4
6
8

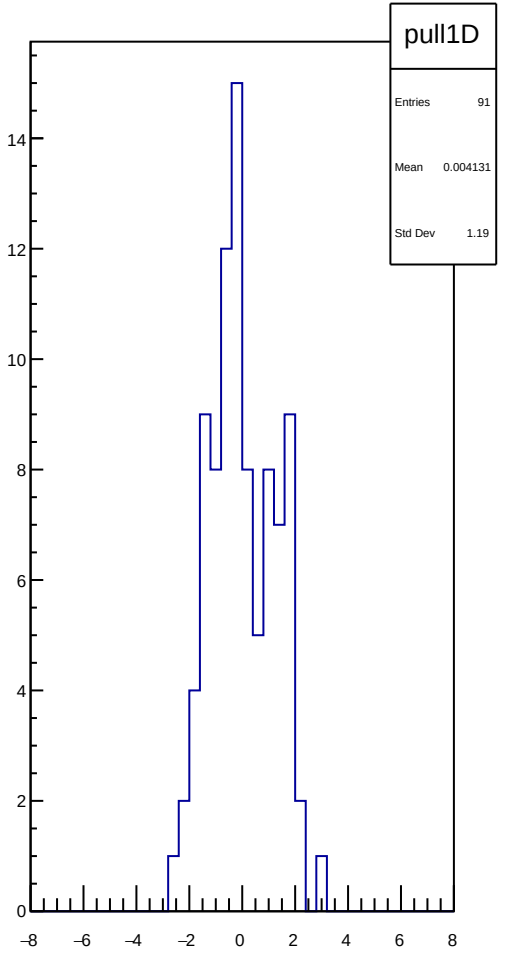

eigen_cor_asym_sam_15_avg_rms vs run
χ² / ndf 2905 / 90
p0 58.72 ± 0.04444
75
70
65
60
55

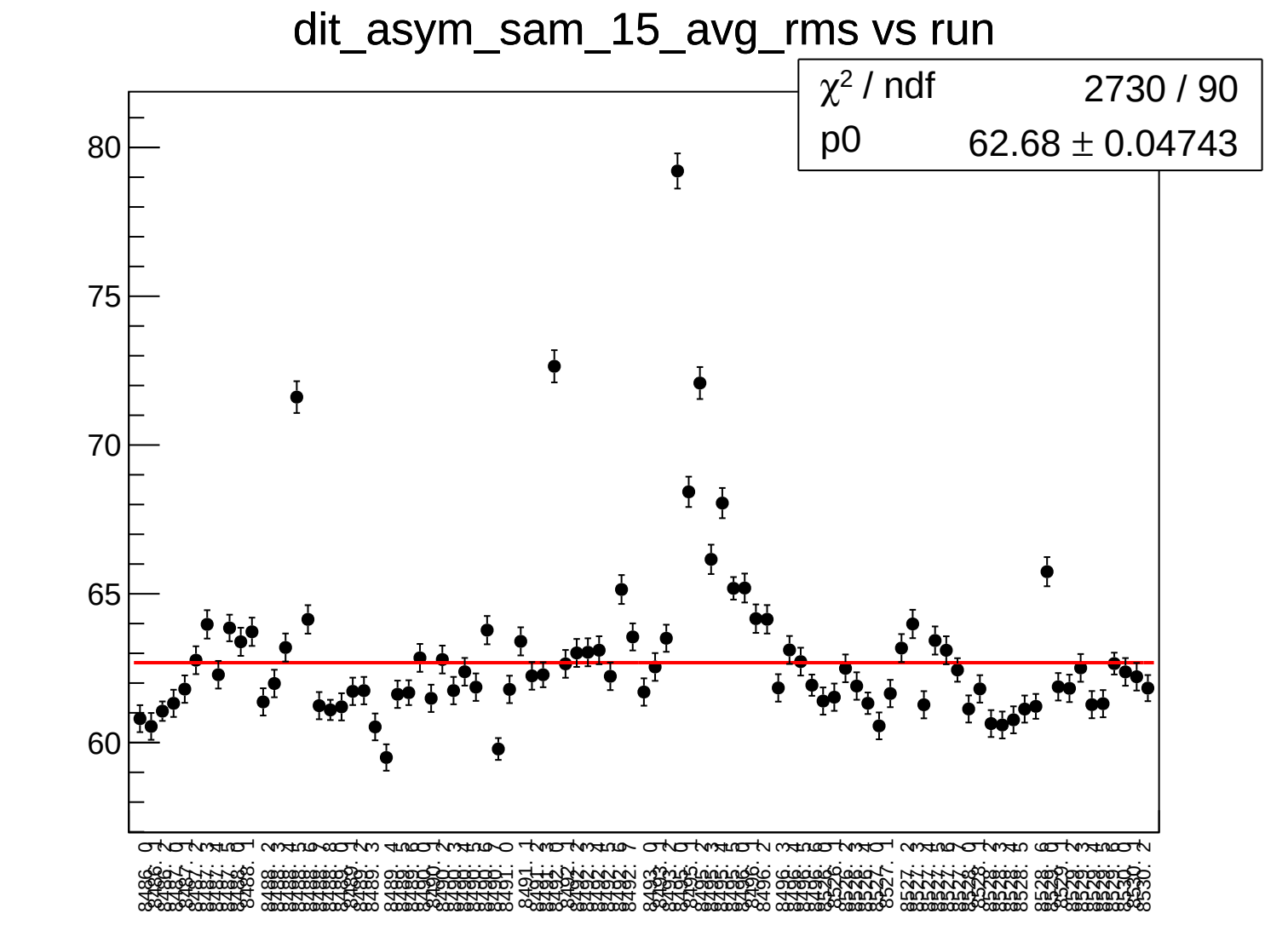

asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 83.78 / 90
p0 −1593 ± 384.2
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean −223.5
Std Dev 0
2
1
0
−1
−2

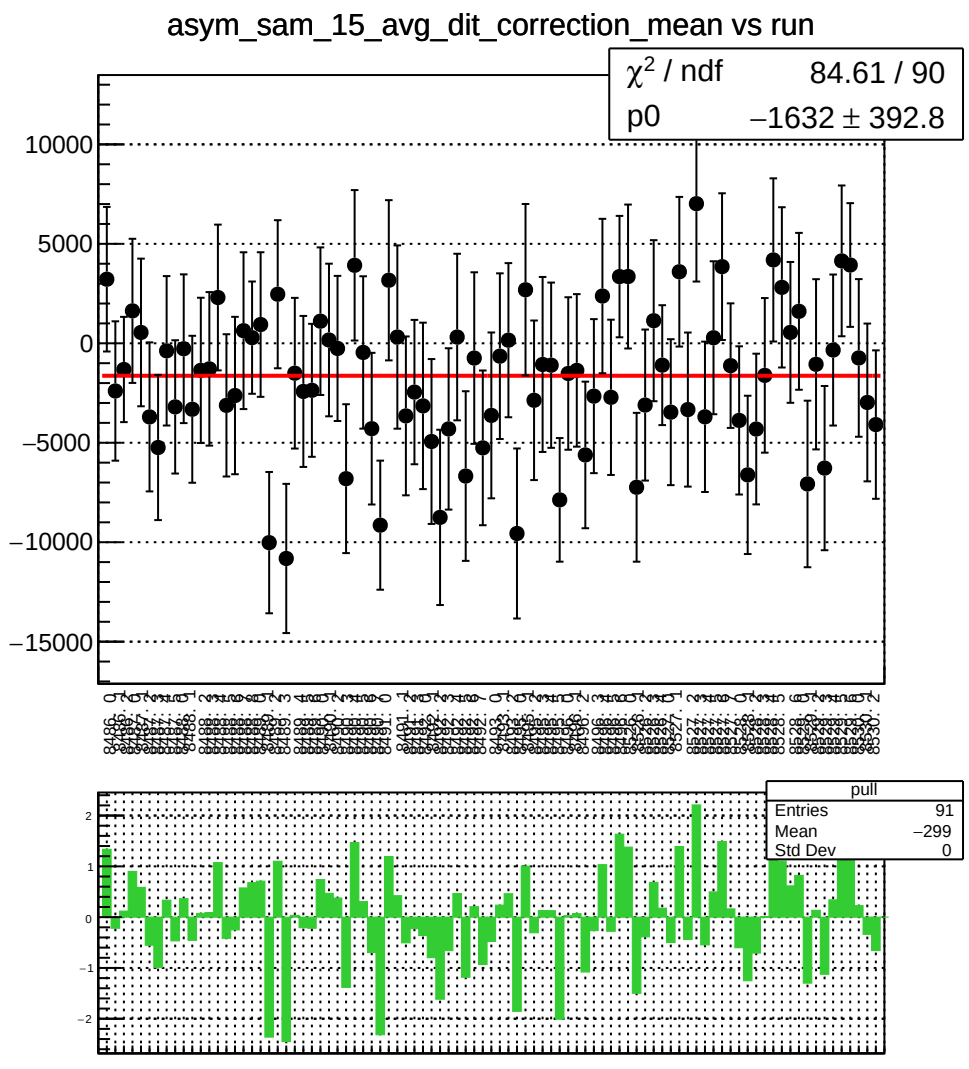

pull1D
Entries 91
Mean −0.008539
Std Dev 0.9595
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

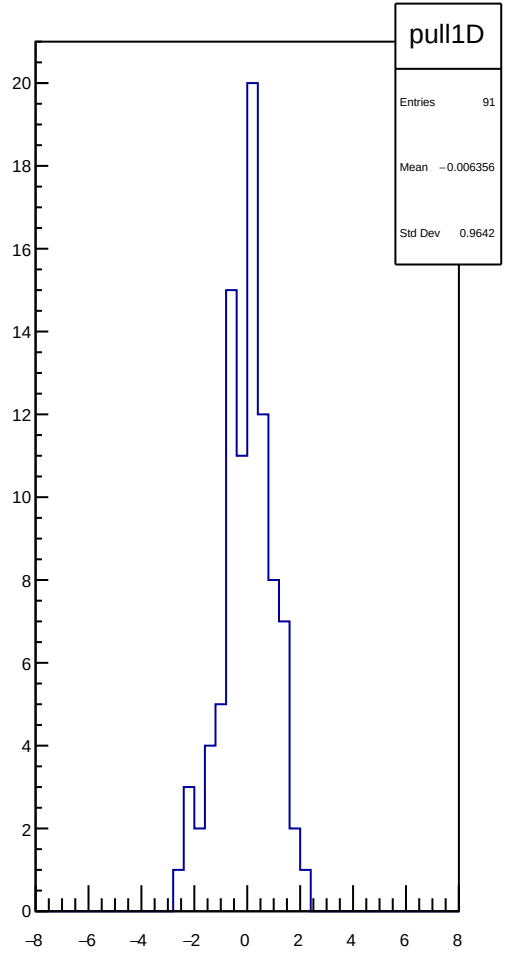

asym_sam_15_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 7802 / 90
p0 358.5 ± 0.2717
440
420
400
380
360
340
320

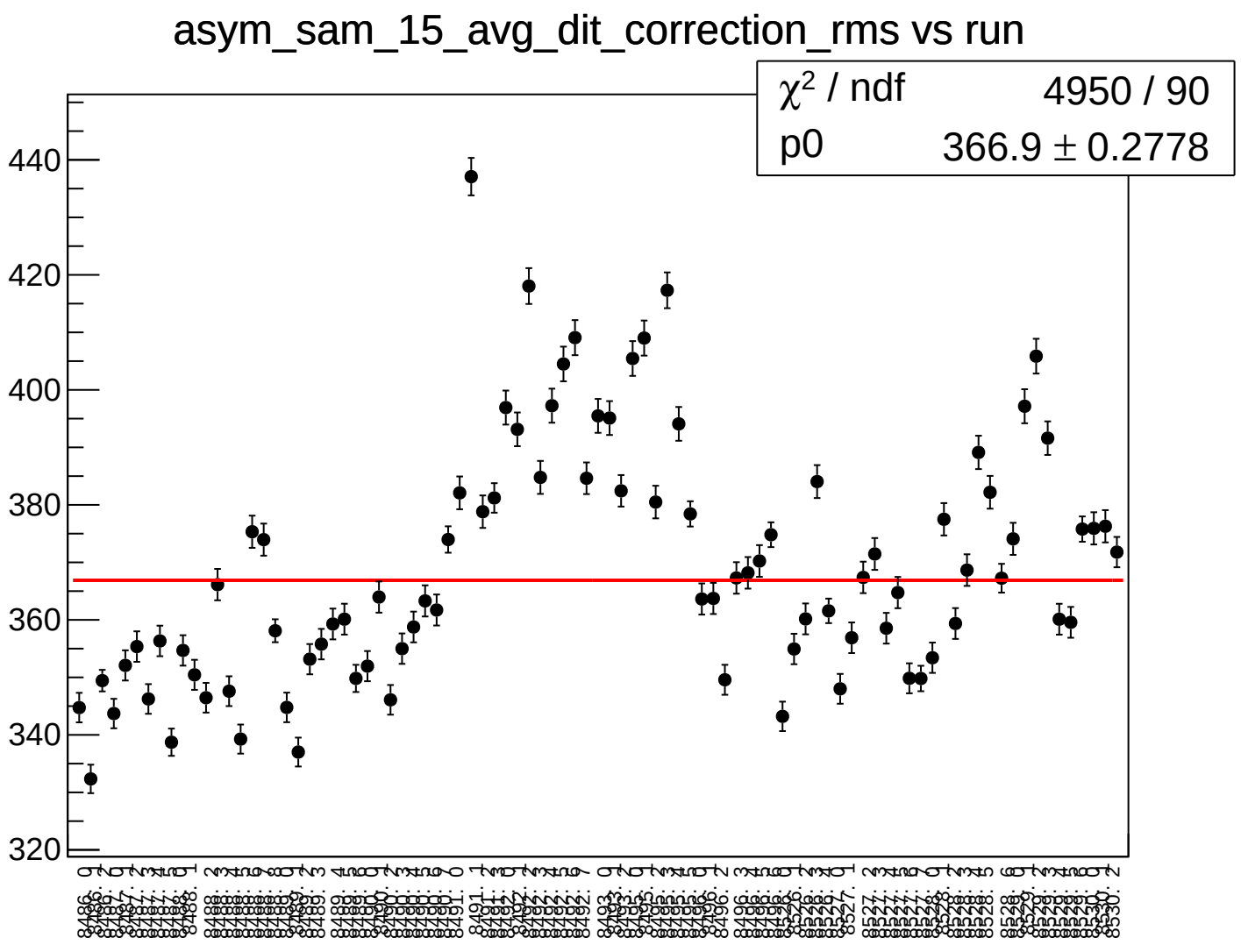

dit_asym_sam_15_avg_mean vs run
χ² / ndf 128.9 / 90
p0 1.342 ± 67.08
2000
1000
0
−1000
−2000
pull
Entries 91
Mean −1828
Std Dev 0
3
2
1
0
−1
−2
−3

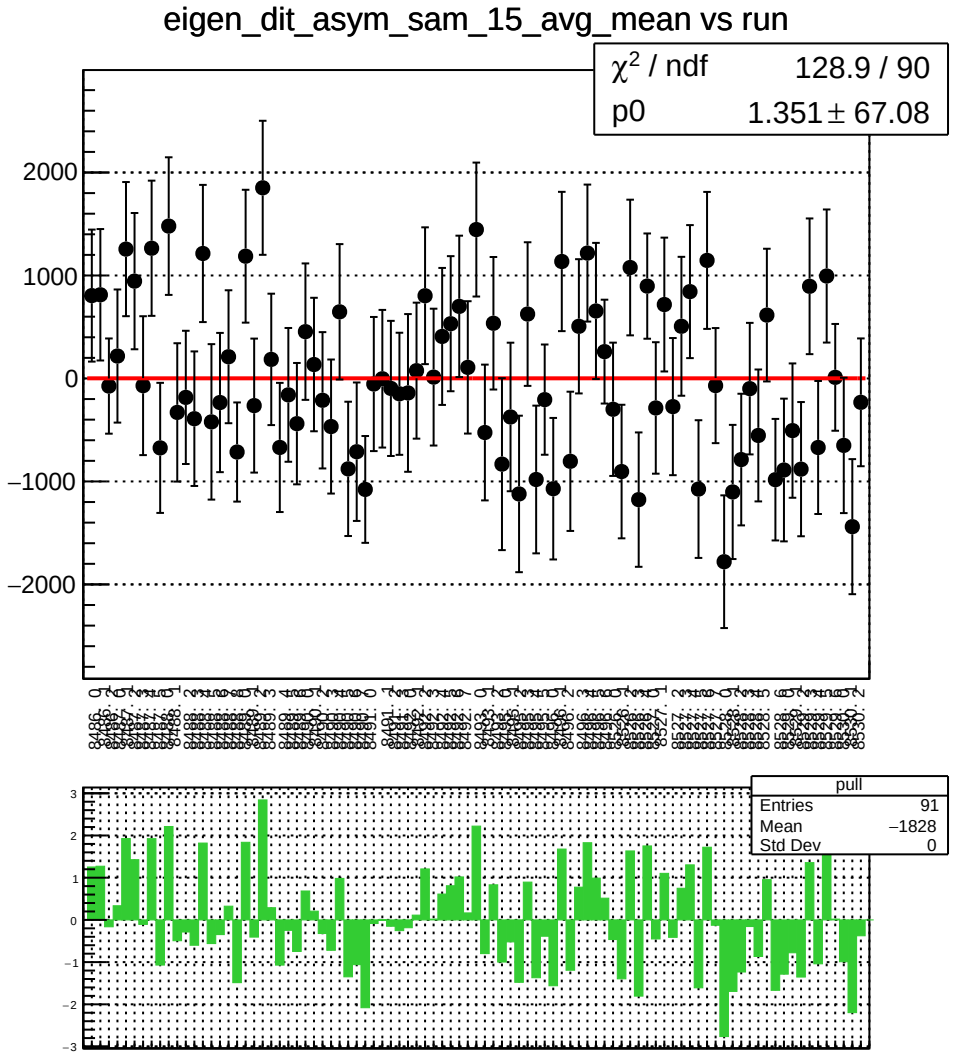

pull1D
Entries 91
Mean 0.004131
Std Dev 1.19
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

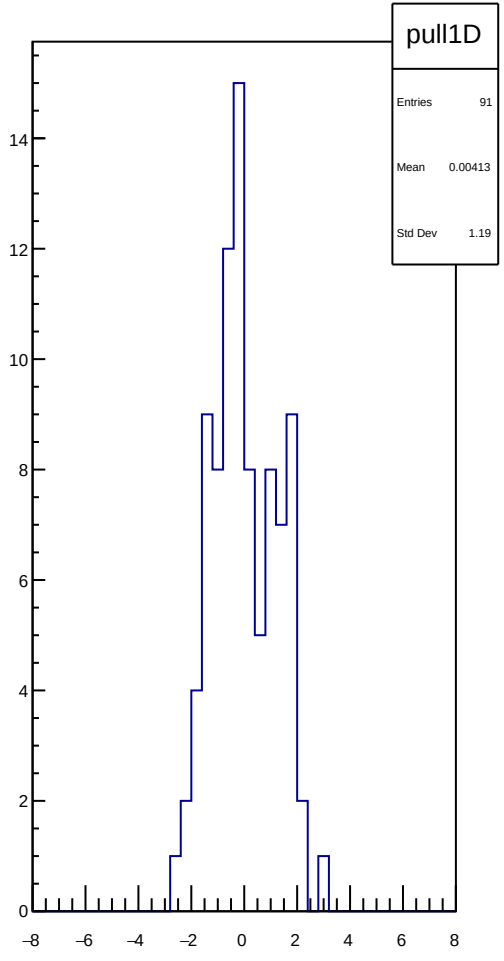

dit_asym_sam_15_avg_rms vs run
χ² / ndf 2730 / 90
p0 62.68 ± 0.04743
80
75
70
65
60

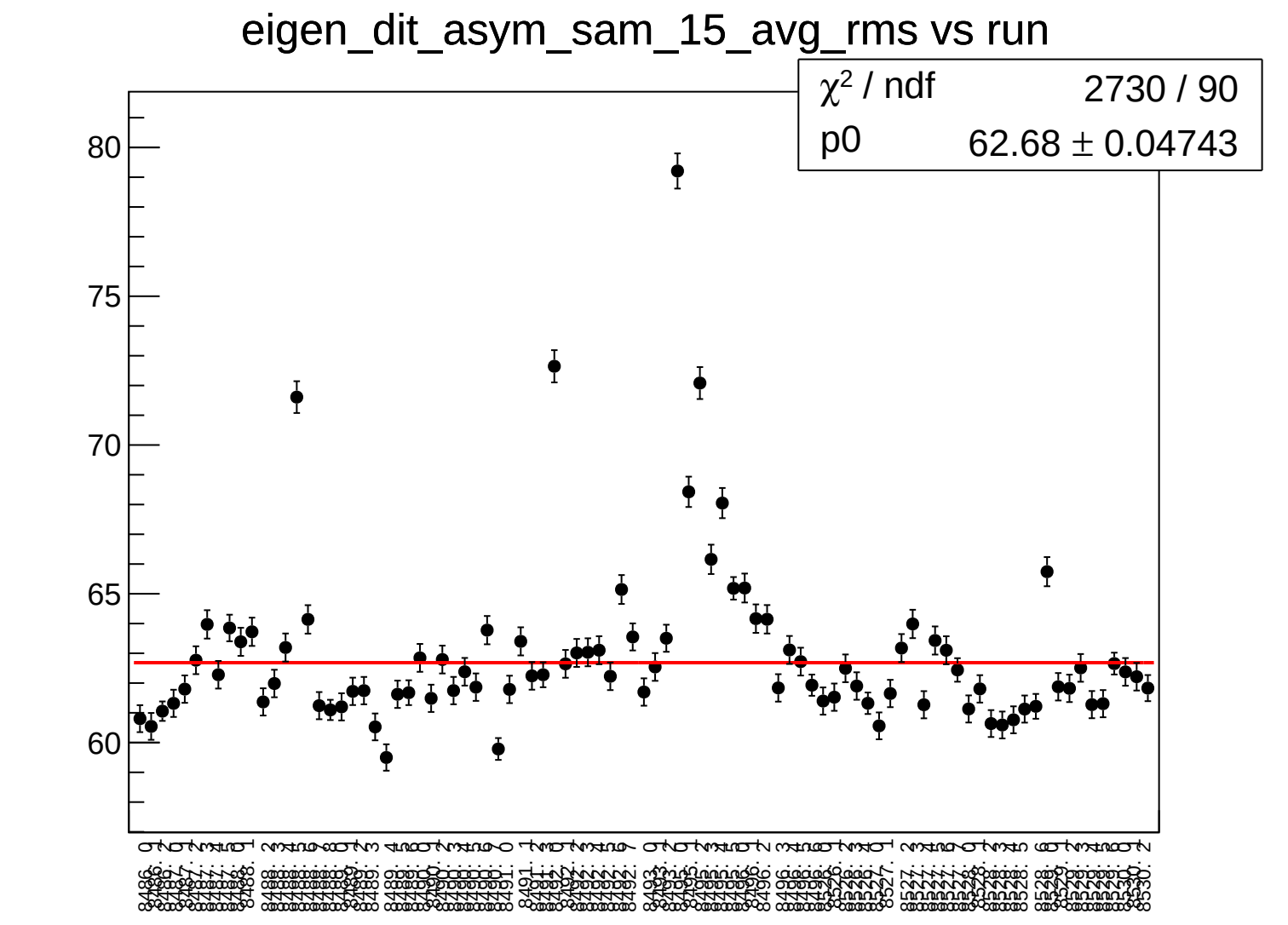

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 84.61 / 90
p0 −1632 ± 392.8
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean −299
Std Dev 0
2
1
0
−1
−2

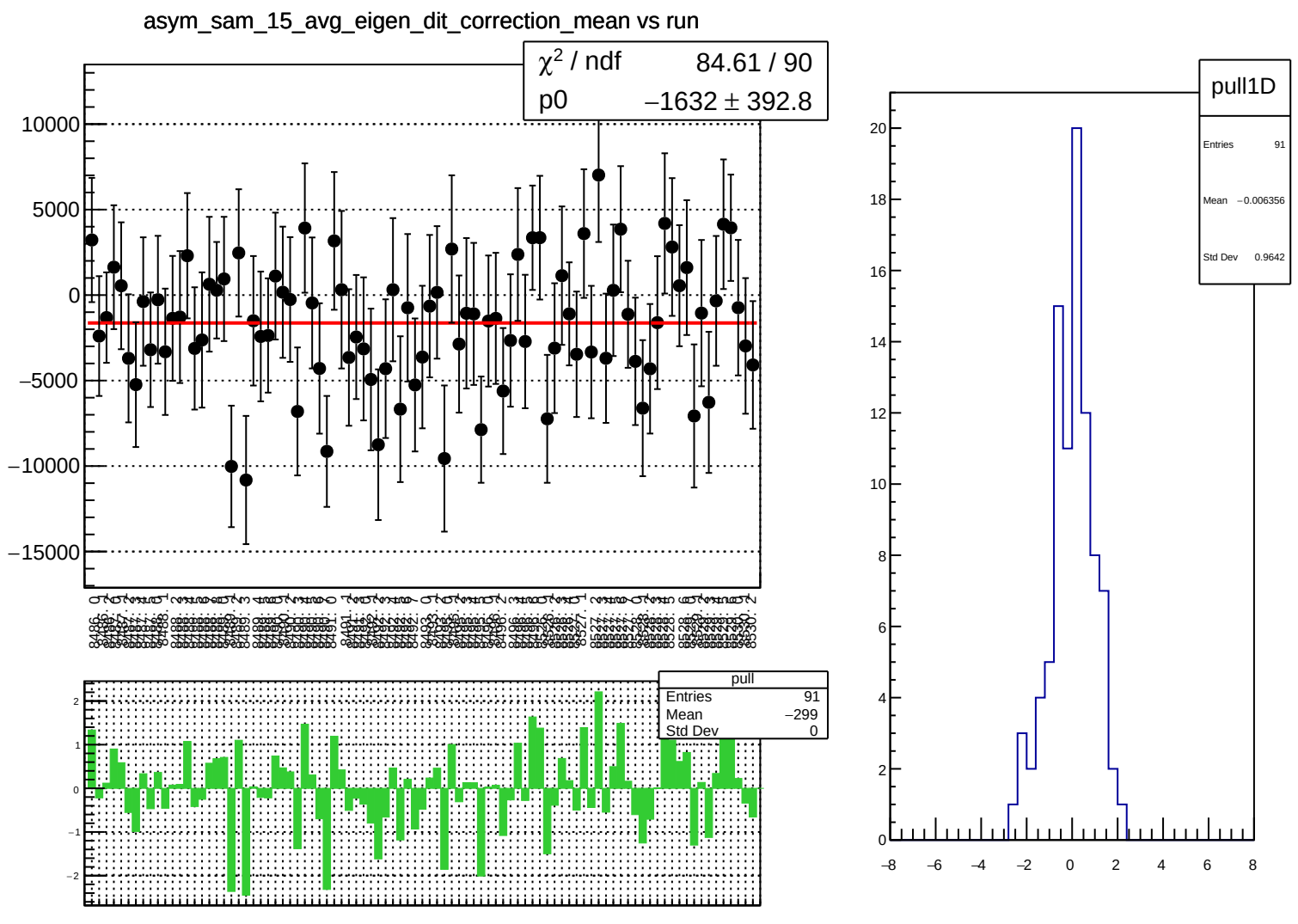

pull1D
Entries 91
Mean −0.006356
Std Dev 0.9642
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

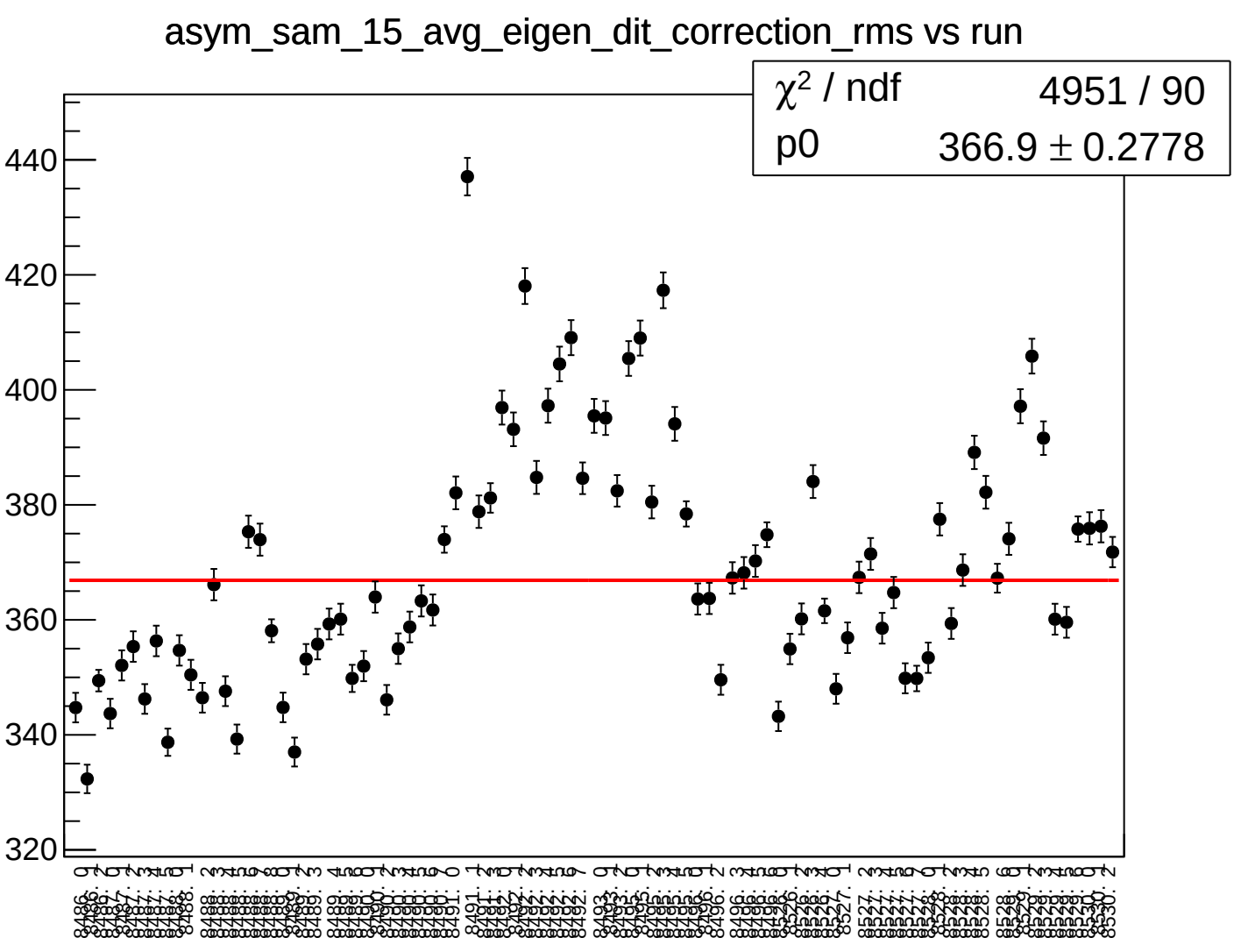

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 4950 / 90
p0 366.9 ± 0.2778
440
420
400
380
360
340
320

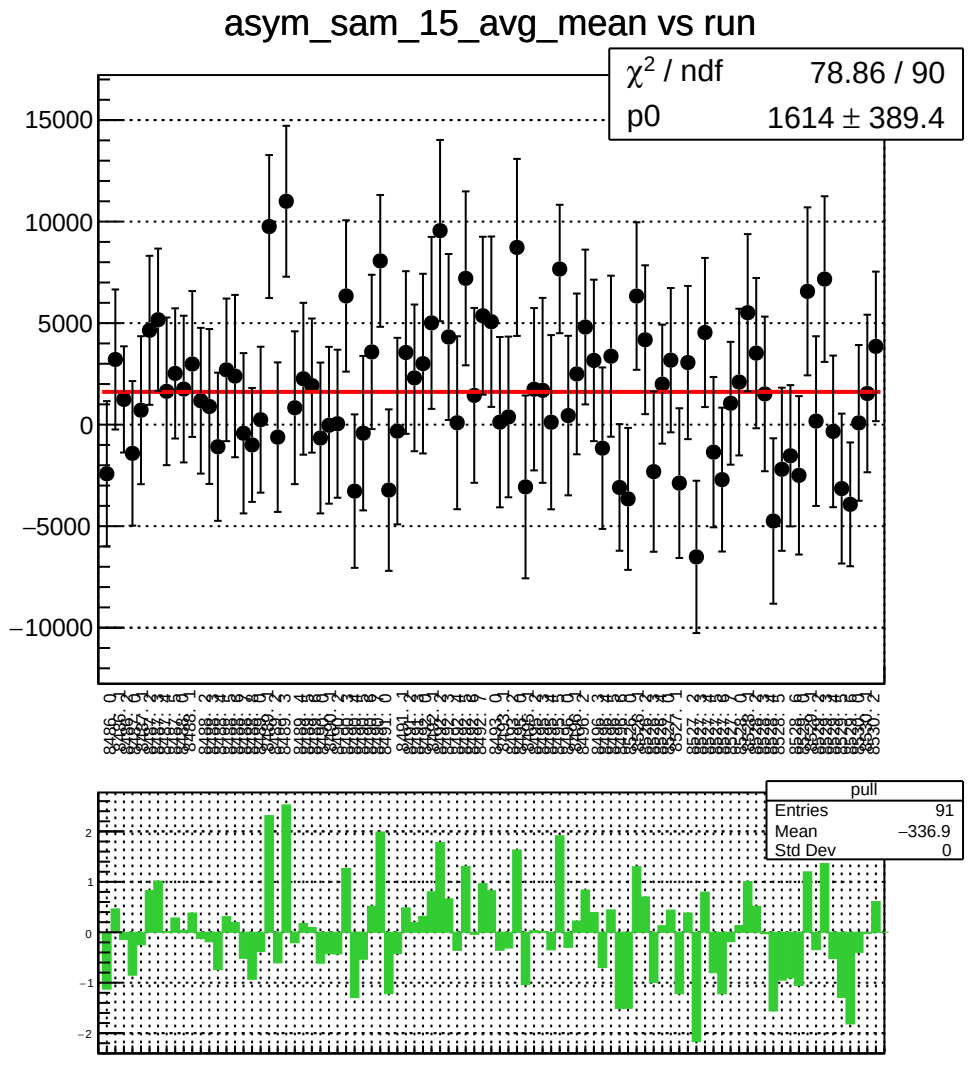

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 128.9 / 90
p0 1.351 ± 67.08
2000
1000
0
−1000
−2000
pull
Entries 91
Mean −1828
Std Dev 0
3
2
1
0
−1
−2
−3

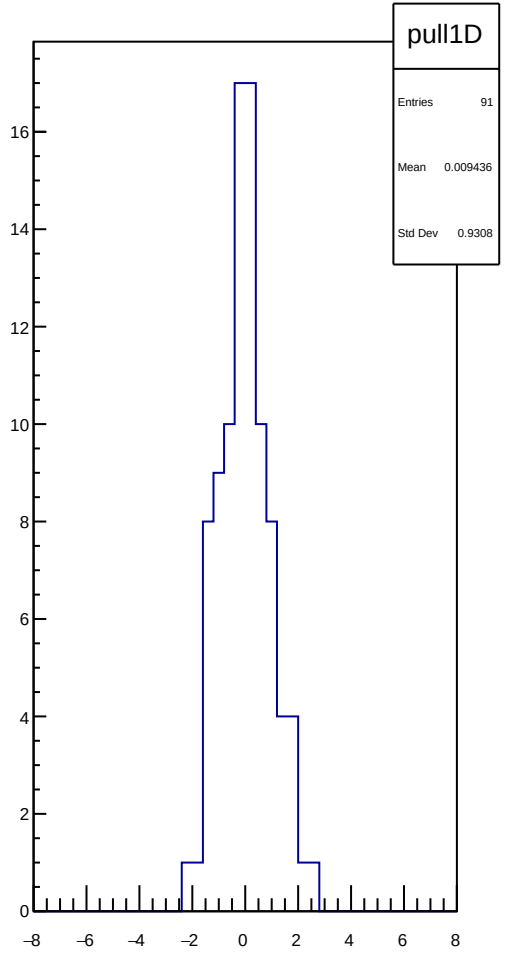

pull1D
Entries 91
Mean 0.00413
Std Dev 1.19
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

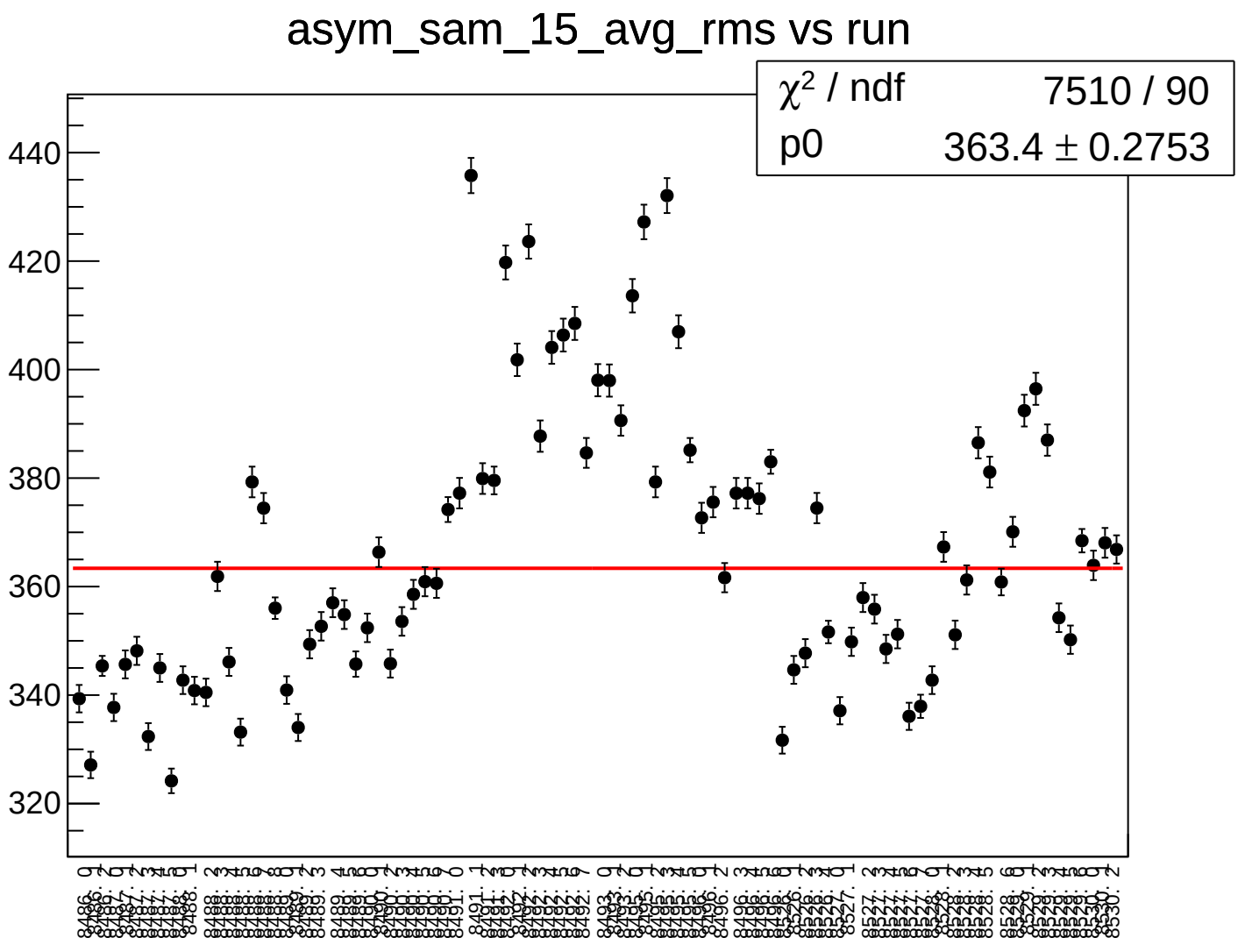

eigen_dit_asym_sam_15_avg_rms vs run
χ² / ndf 2730 / 90
p0 62.68 ± 0.04743
80
75
70
65
60

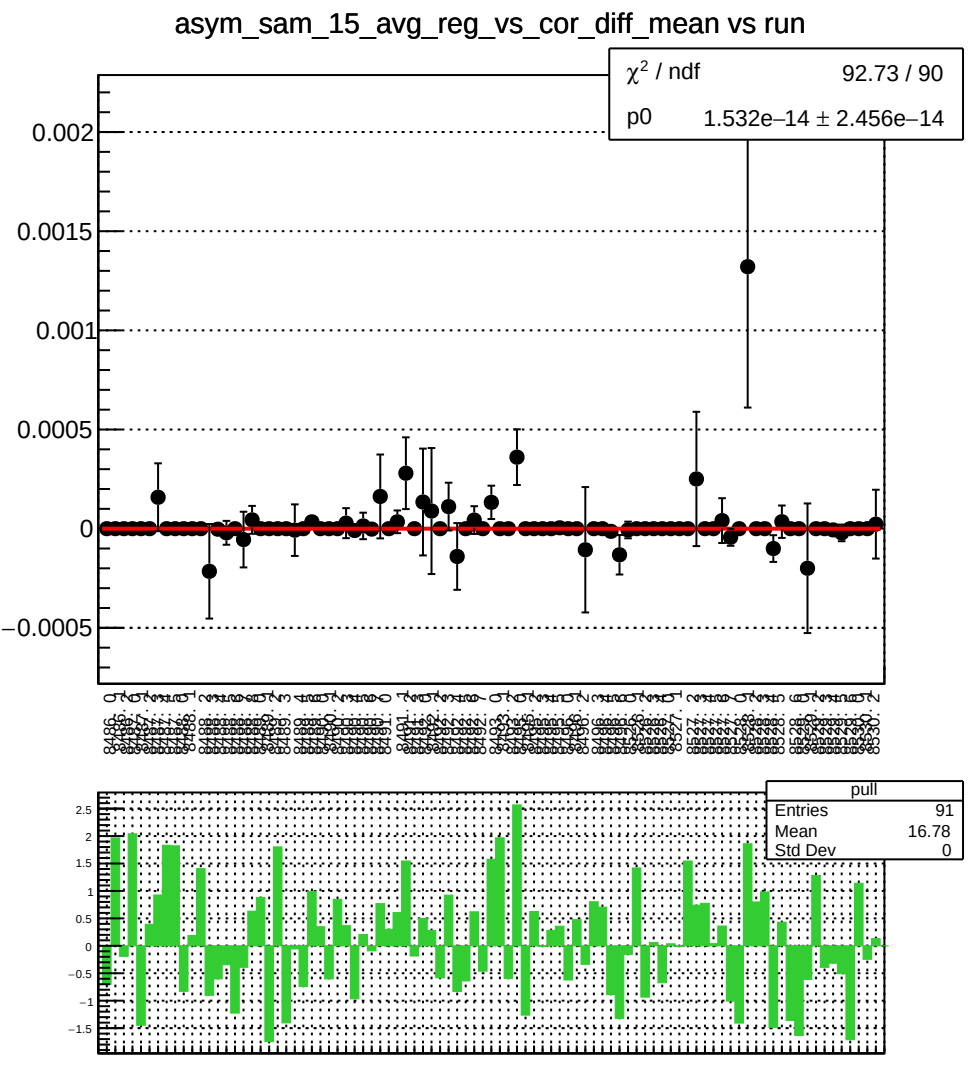

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 84.61 / 90
p0 −1632 ± 392.8
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean −299
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.006356
Std Dev 0.9642
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

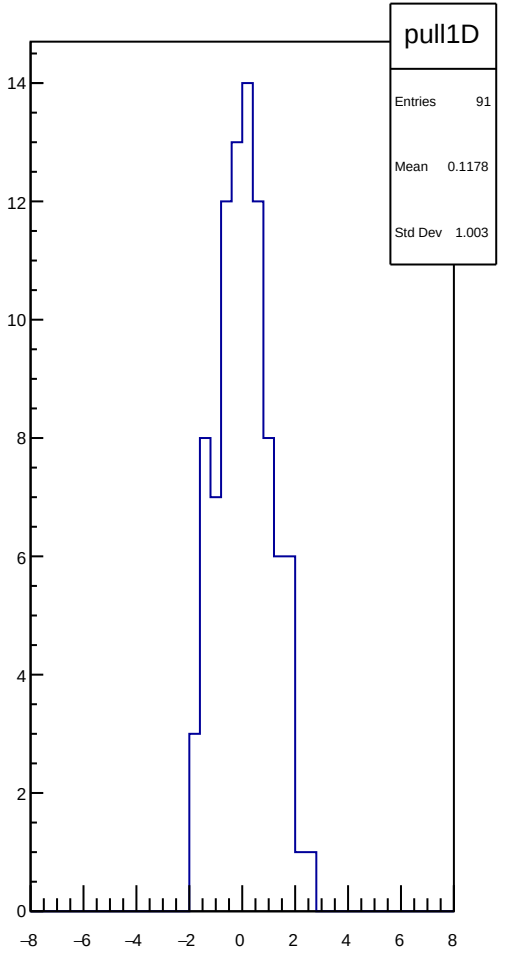

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 4951 / 90
p0 366.9 ± 0.2778
440
420
400
380
360
340
320

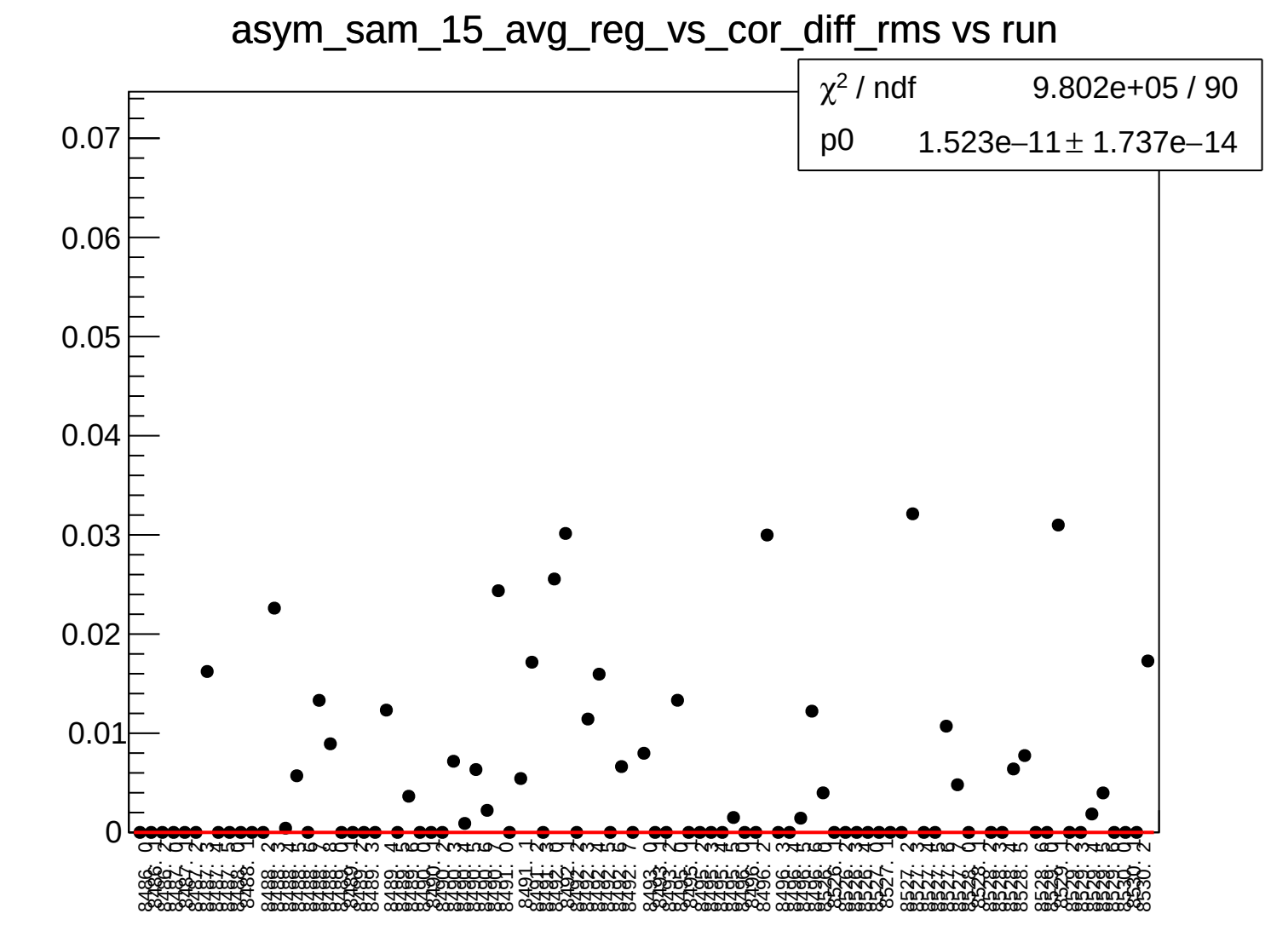

asym_sam_15_avg_mean vs run
χ² / ndf 78.86 / 90
p0 1614 ± 389.4
15000
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −336.9
Std Dev 0
2
1
0
−1
−2

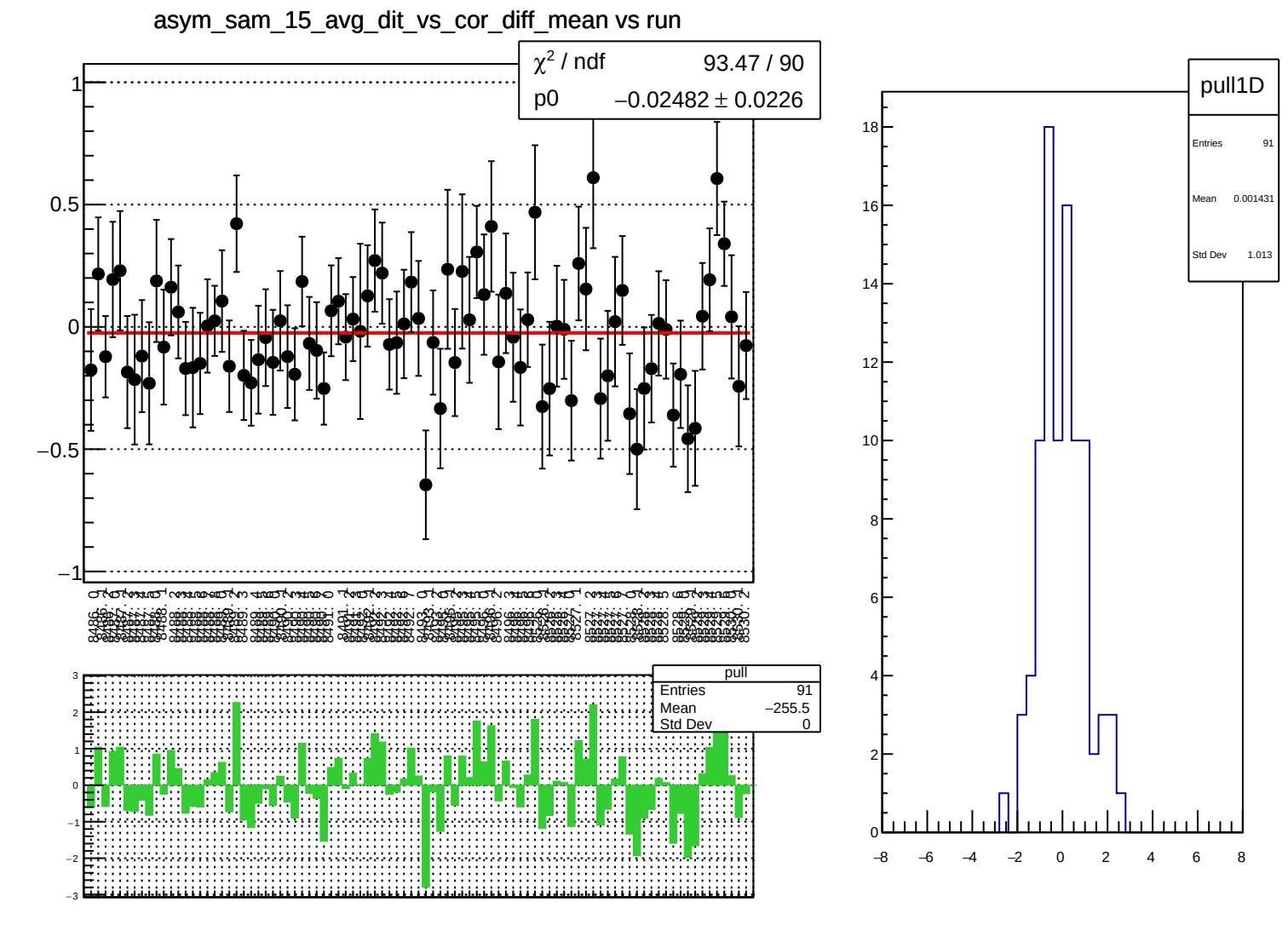

pull1D
Entries 91
Mean 0.009436
Std Dev 0.9308
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

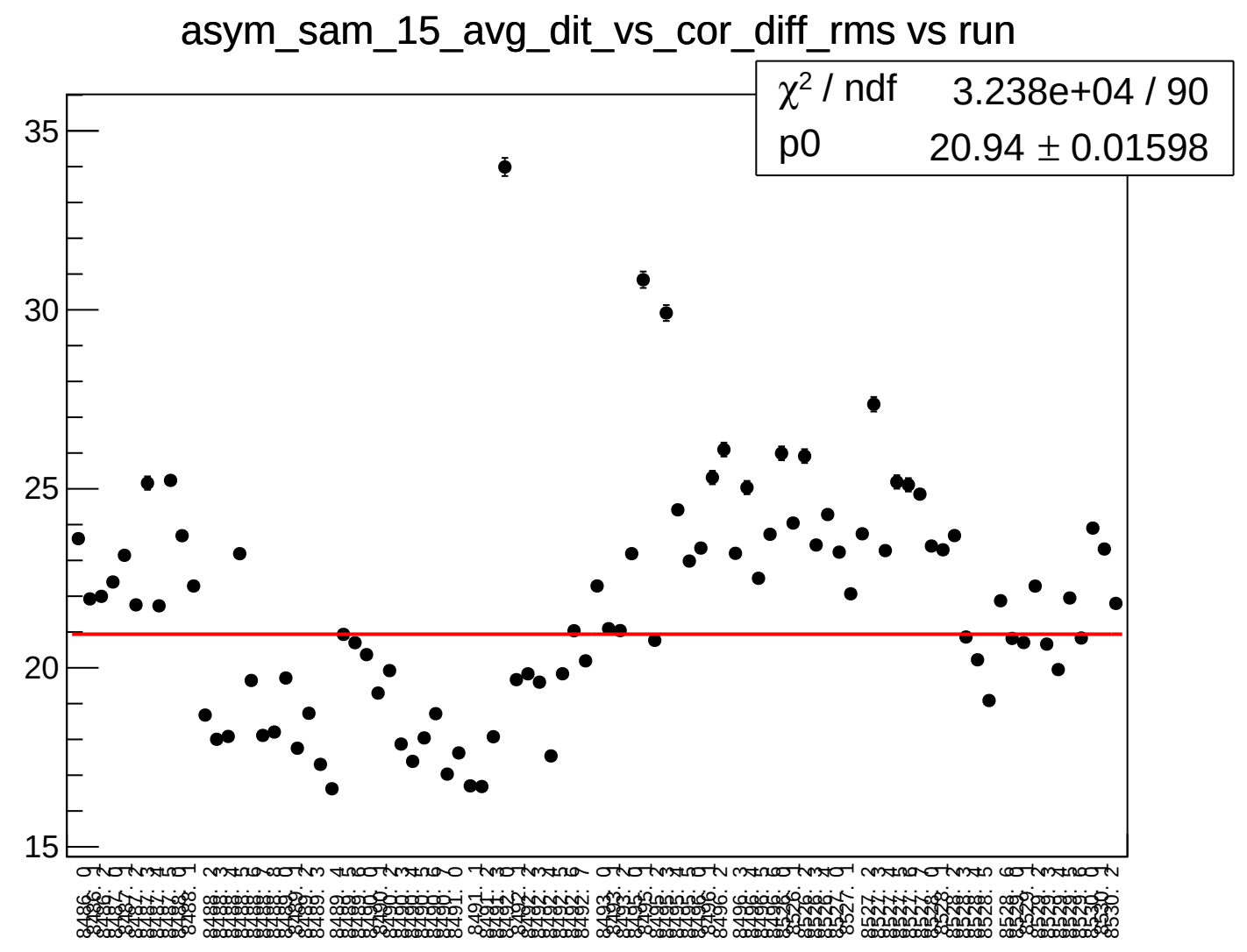

asym_sam_15_avg_rms vs run
χ² / ndf 7510 / 90
p0 363.4 ± 0.2753
440
420
400
380
360
340
320

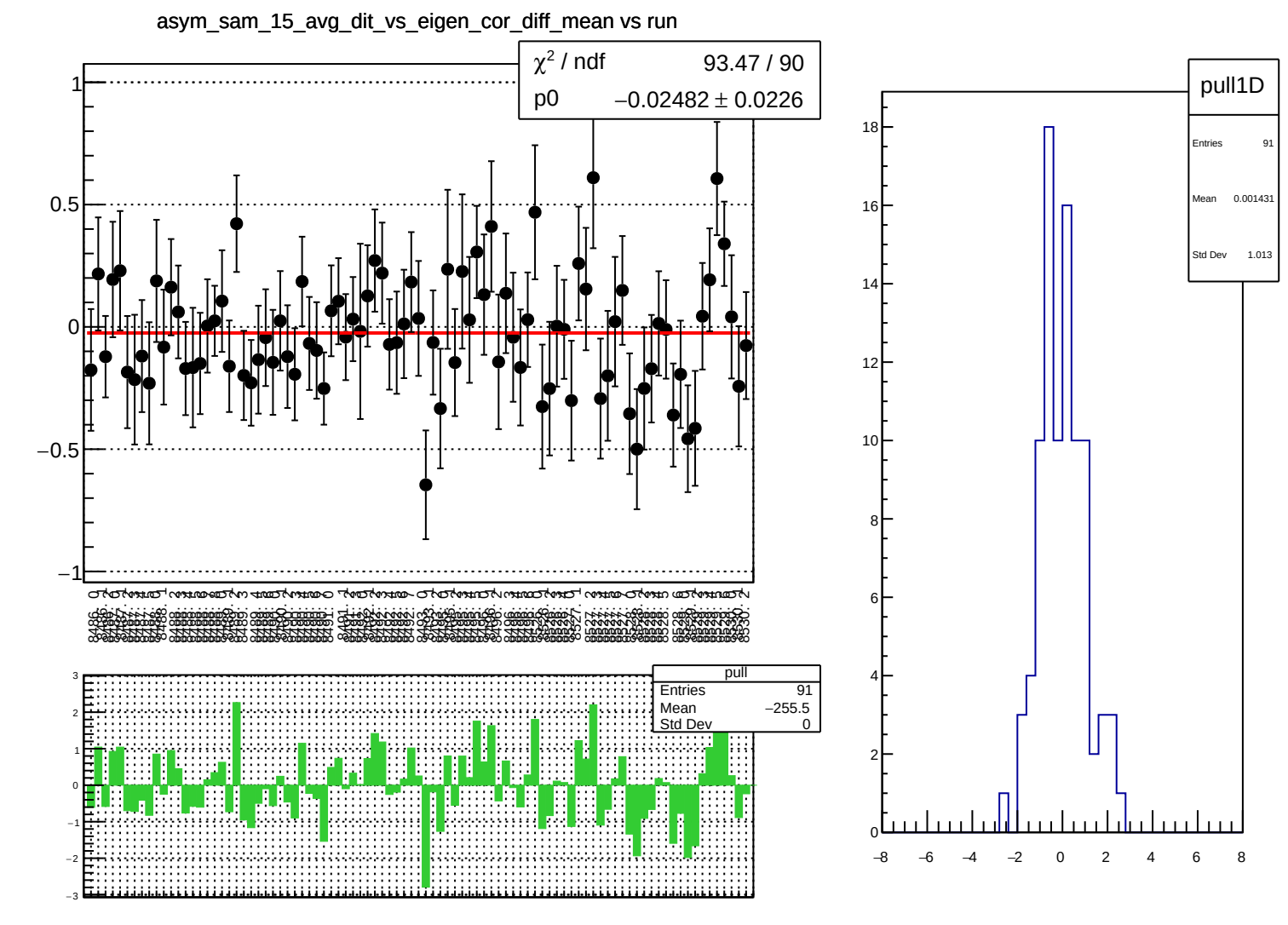

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 92.73 / 90
p0 1.532e−14 ± 2.456e−14
0.002
0.0015
0.001
0.0005
0
−0.0005
pull
Entries 91
Mean 16.78
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

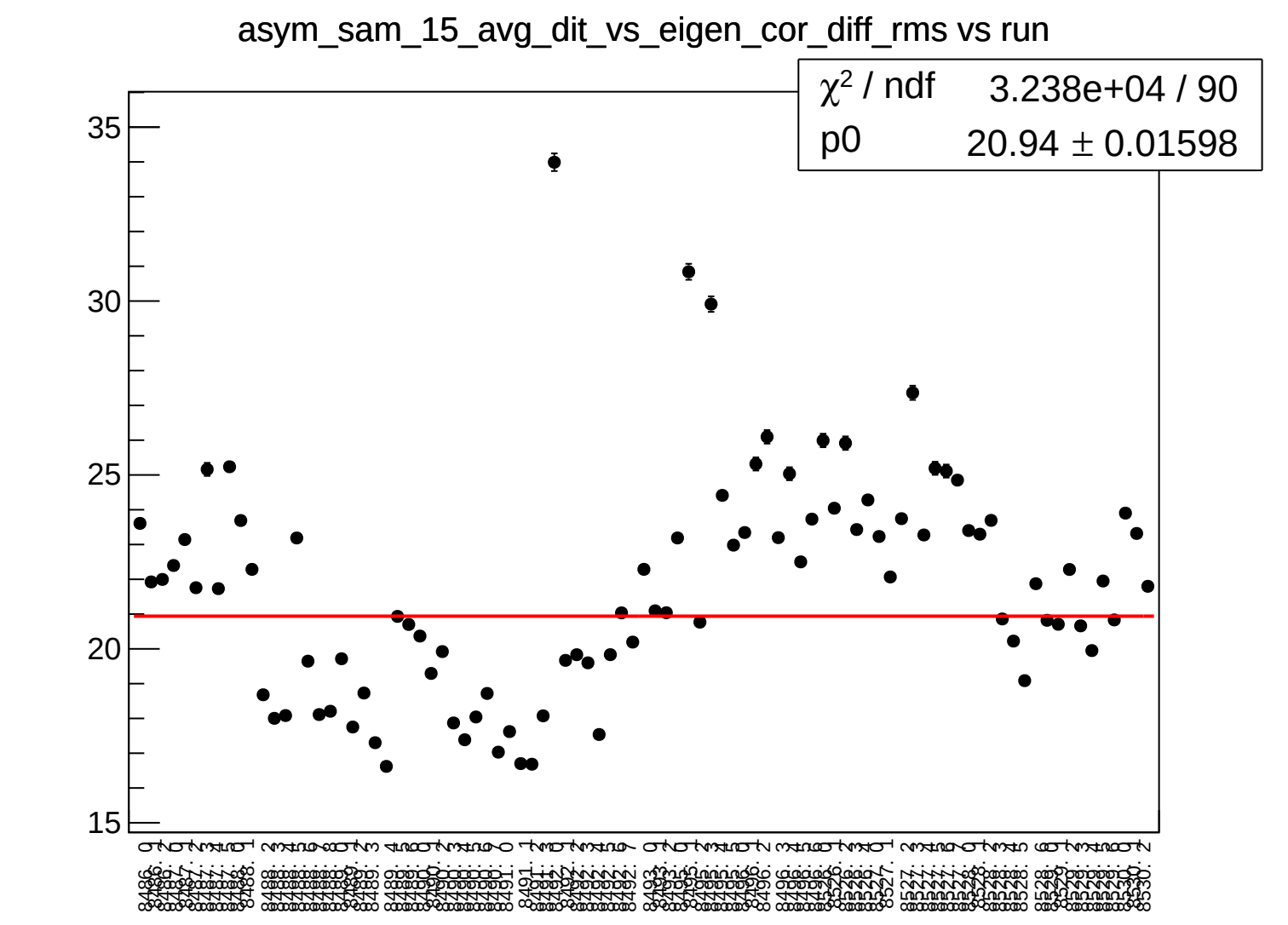

pull1D
Entries 91
Mean 0.1178
Std Dev 1.003
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

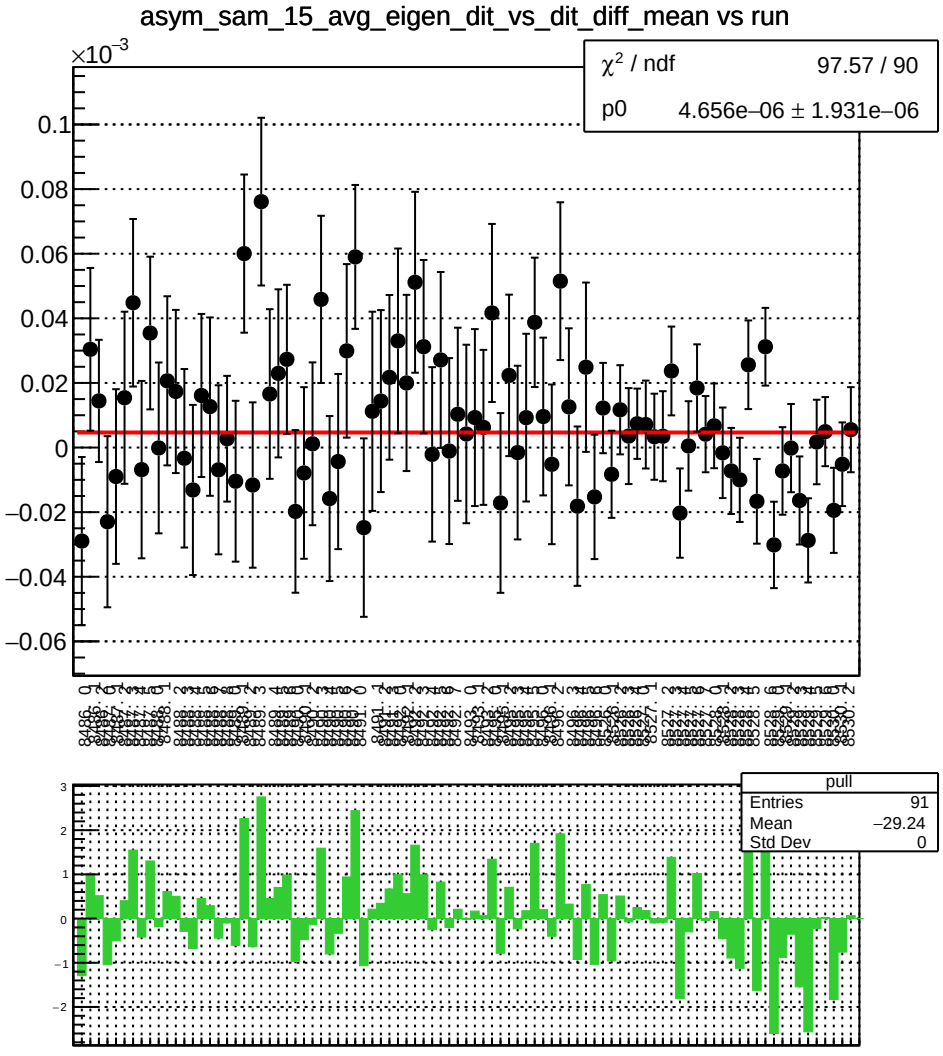

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ2 / ndf 9.802e+05 / 90
p0 1.523e−11 ± 1.737e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

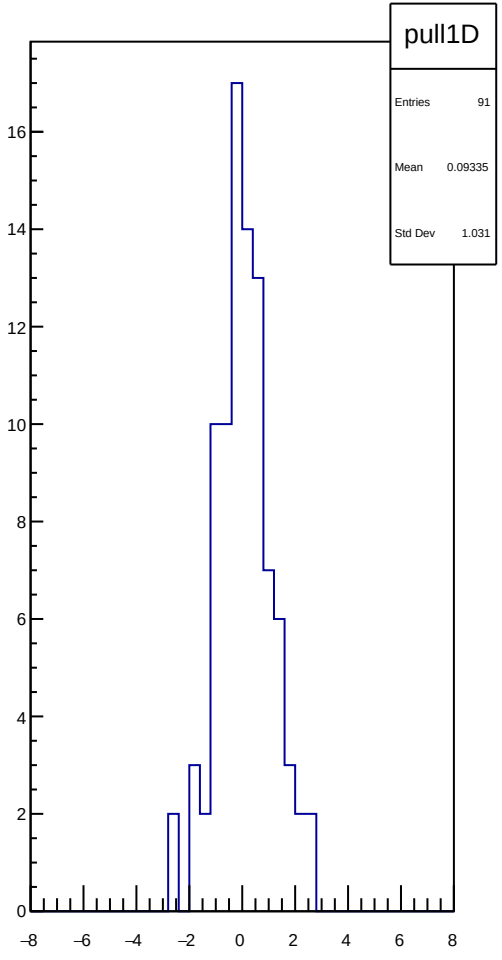

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 93.47 / 90
p0 −0.02482 ± 0.0226
pull
Entries 91
Mean −255.5
Std Dev 0
pull1D
Entries 91
Mean 0.001431
Std Dev 1.013

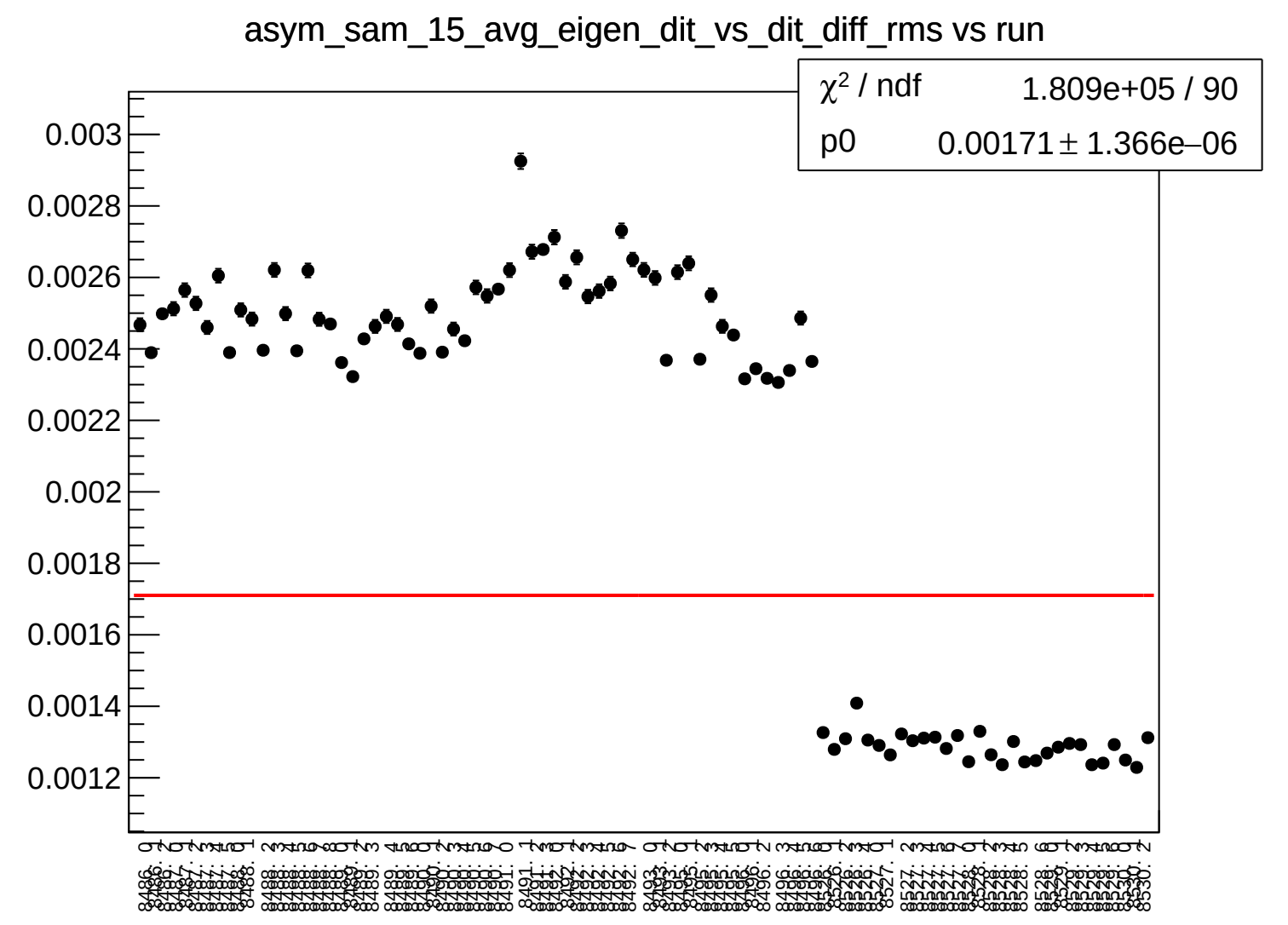

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.238e+04 / 90
p0 20.94 ± 0.01598
35
30
25
20
15

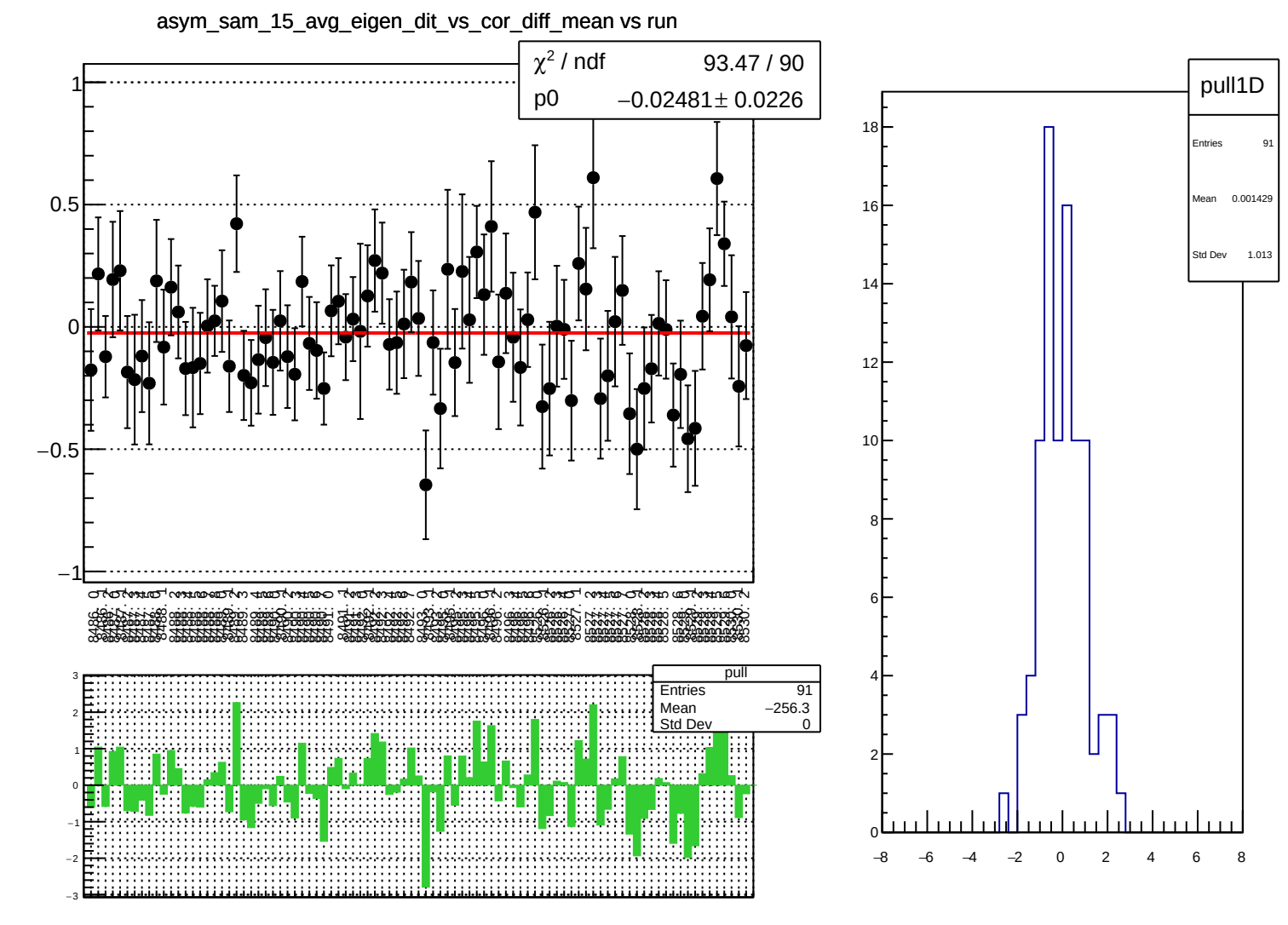

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.47 / 90
p0 −0.02482 ± 0.0226
pull
Entries 91
Mean −255.5
Std Dev 0
pull1D
Entries 91
Mean 0.001431
Std Dev 1.013

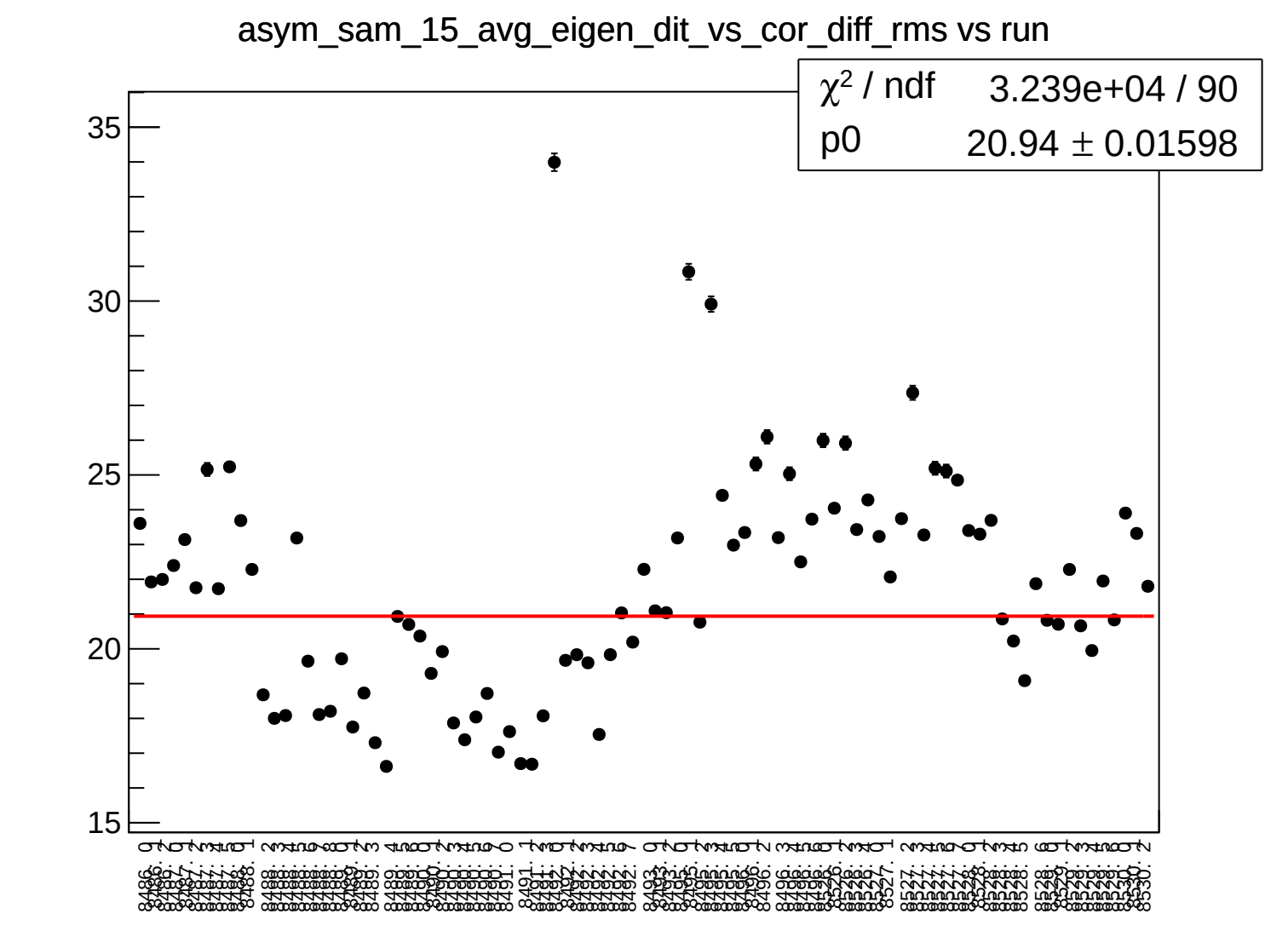

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.238e+04 / 90
p0 20.94 ± 0.01598
35
30
25
20
15

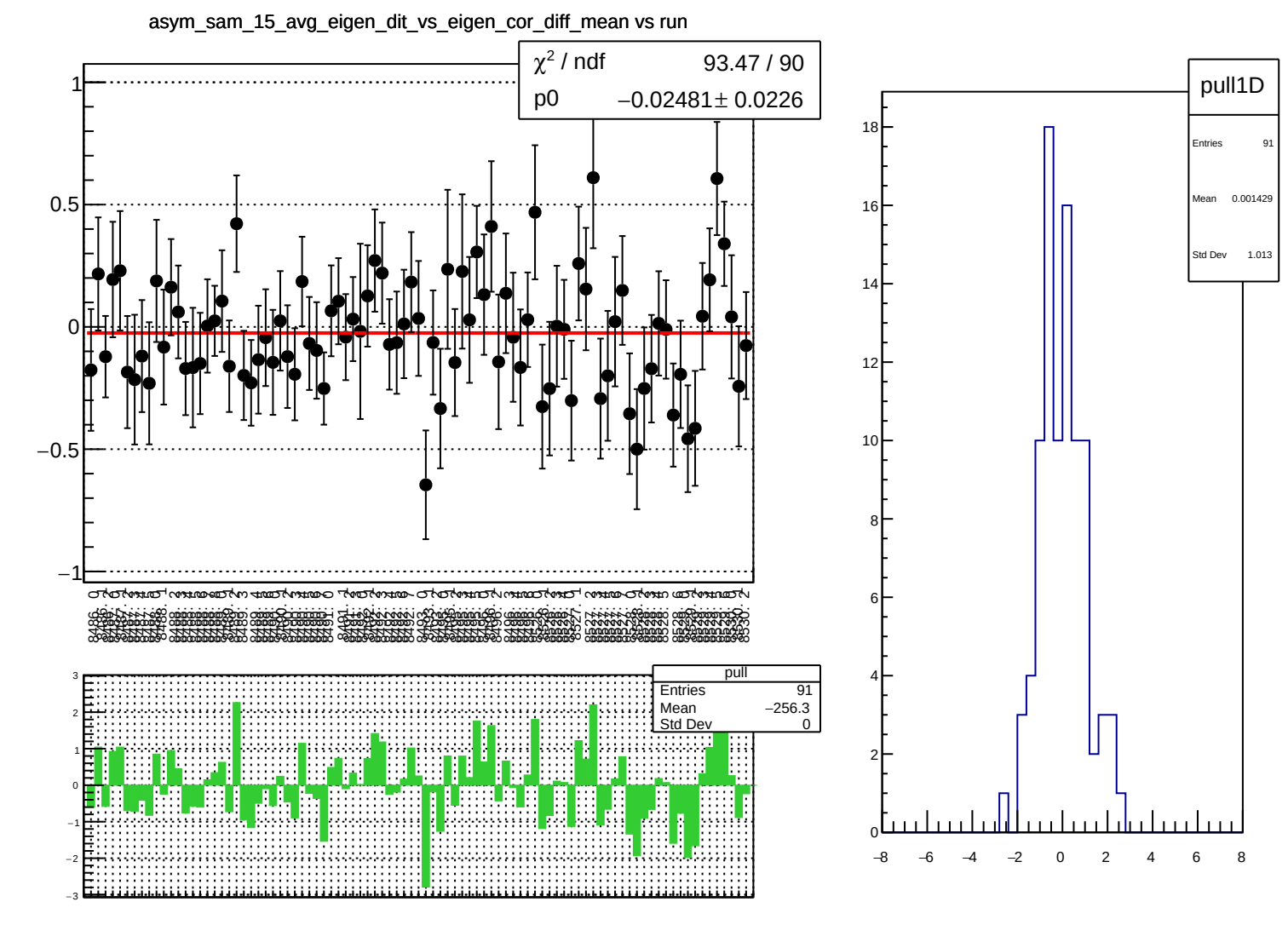

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 97.57 / 90
p0 4.656e−06 ± 1.931e−06
pull
Entries 91
Mean −29.24
Std Dev 0

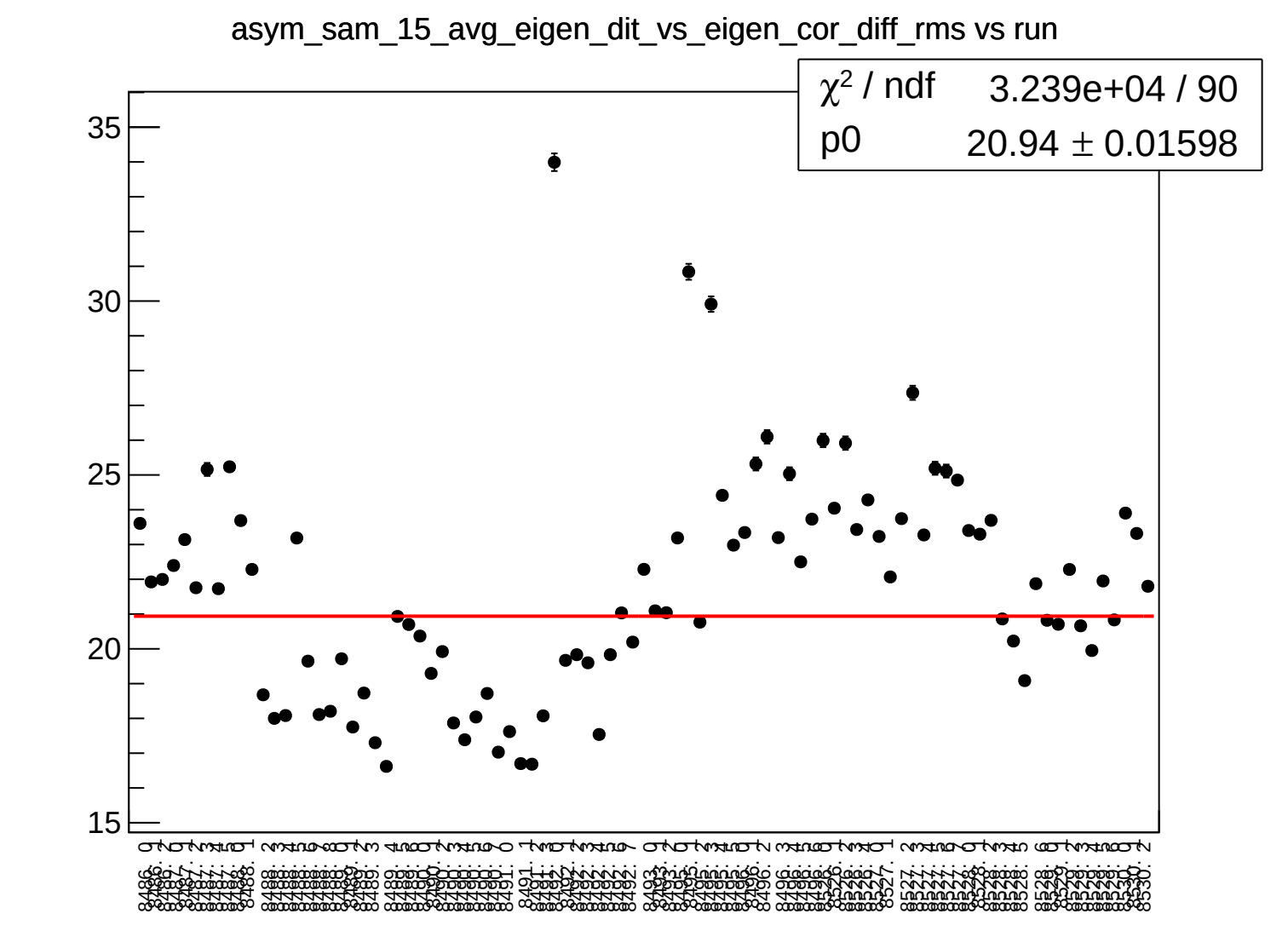

pull1D
Entries 91
Mean 0.09335
Std Dev 1.031

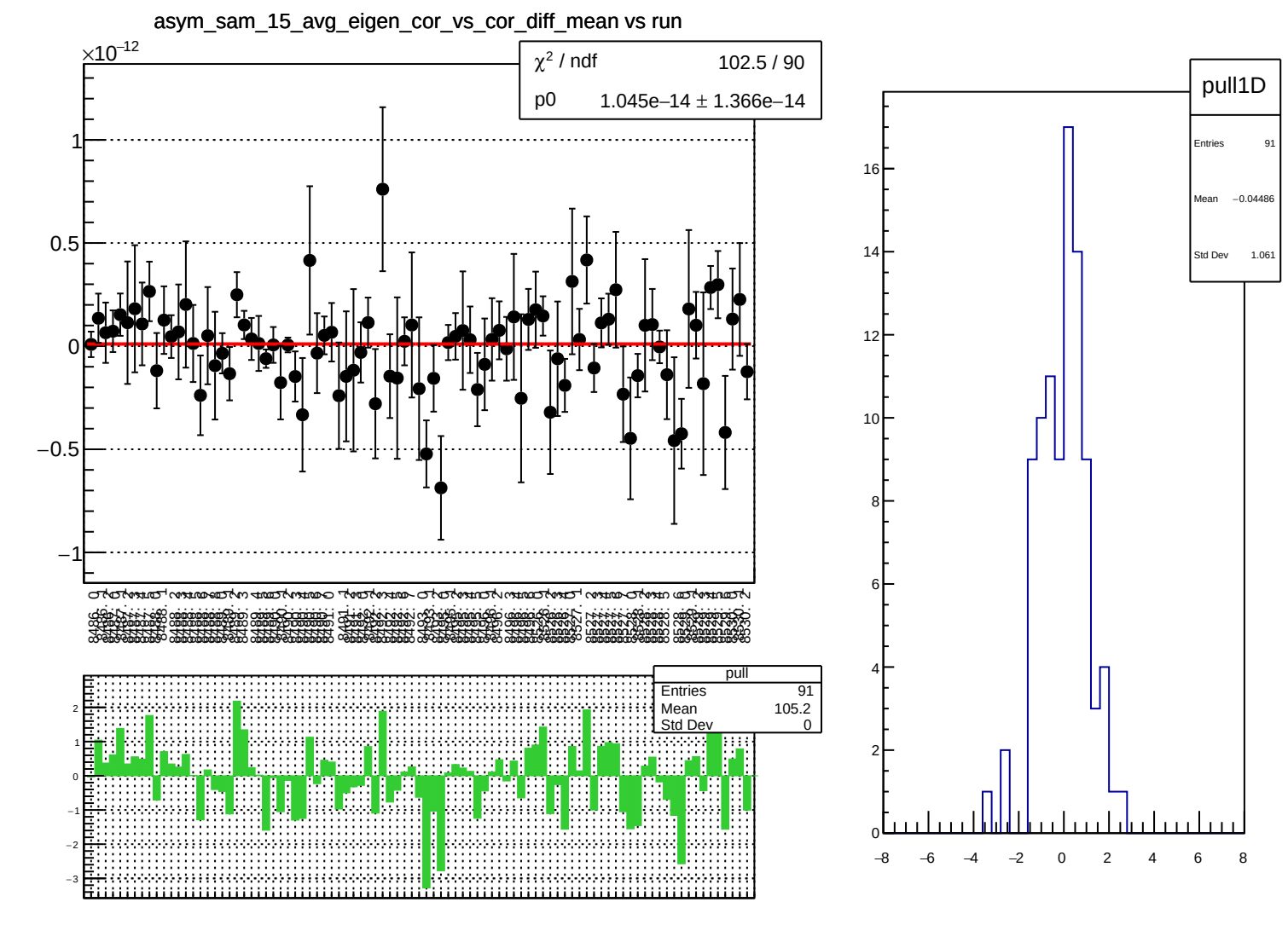

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.809e+05 / 90
p0 0.00171 ± 1.366e–06
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012

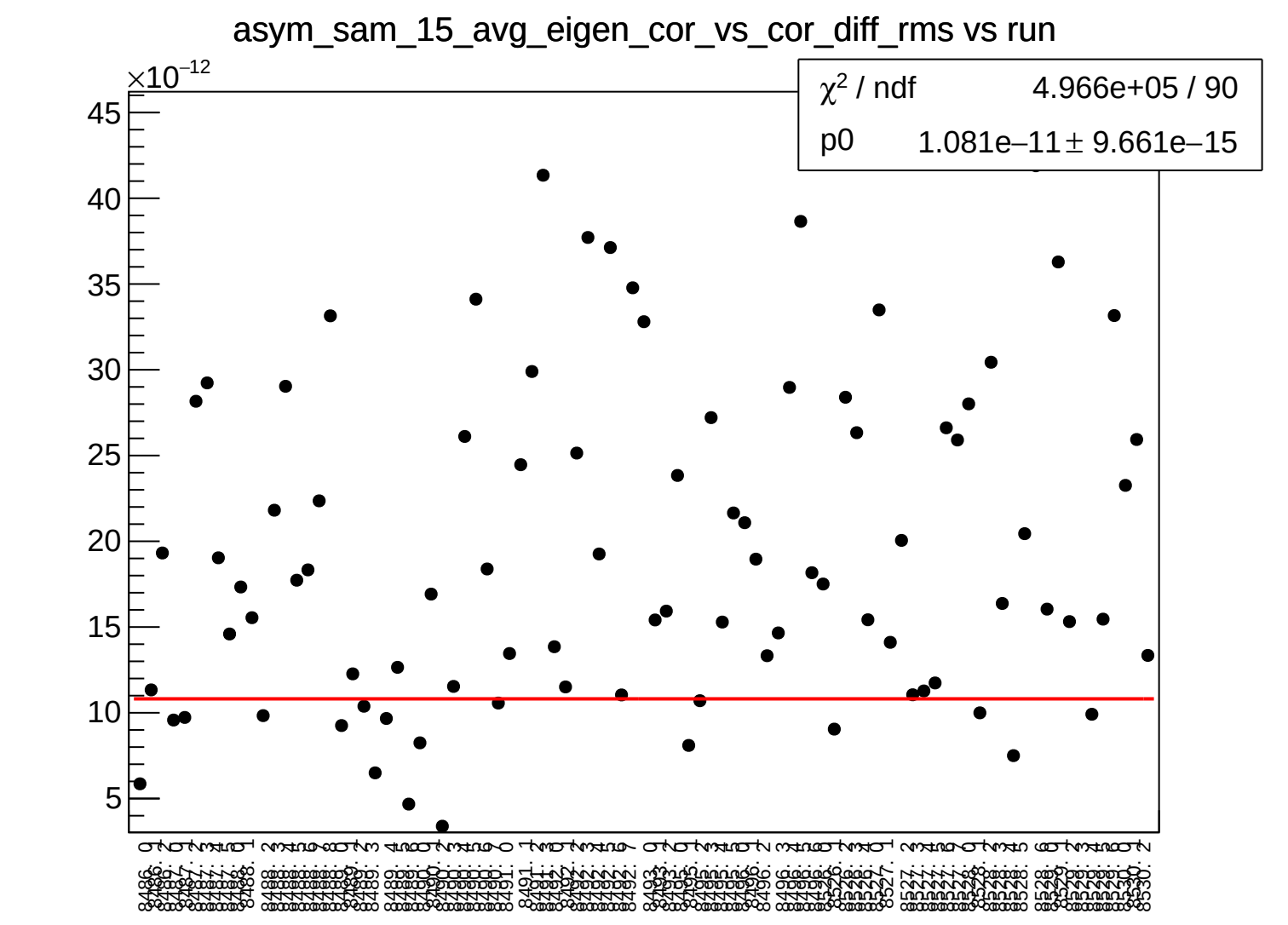

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.47 / 90
p0 −0.02481± 0.0226
pull
Entries 91
Mean −256.3
Std Dev 0
pull1D
Entries 91
Mean 0.001429
Std Dev 1.013

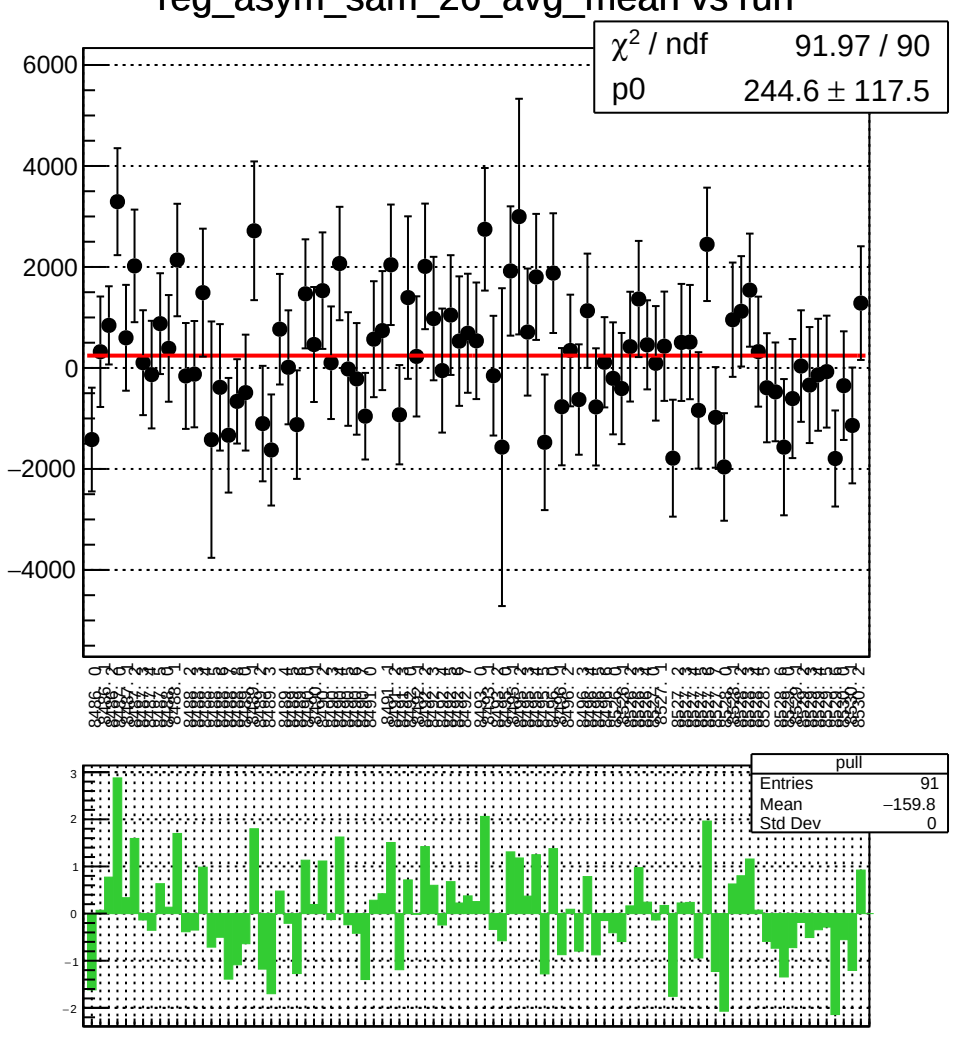

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.239e+04 / 90
p0 20.94 ± 0.01598
35
30
25
20
15

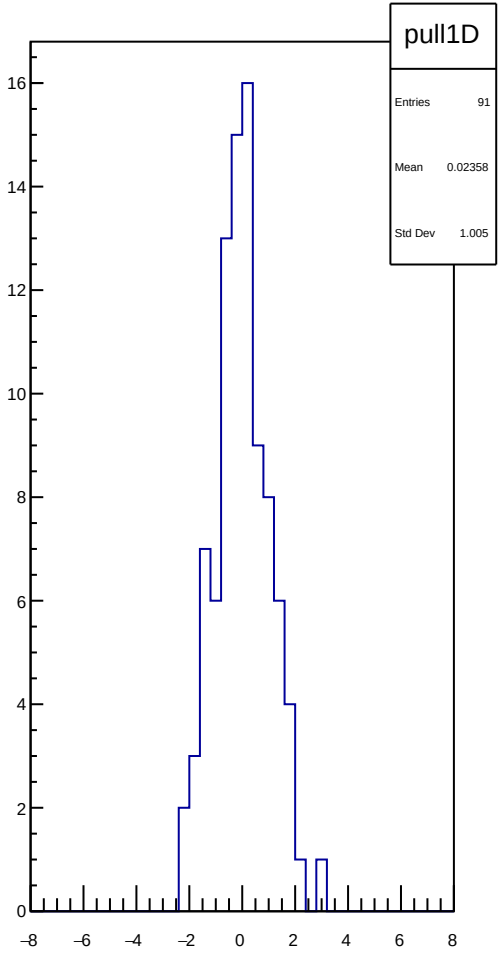

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.47 / 90
p0 −0.02481 ± 0.0226
pull
Entries 91
Mean −256.3
Std Dev 0
pull1D
Entries 91
Mean 0.001429
Std Dev 1.013

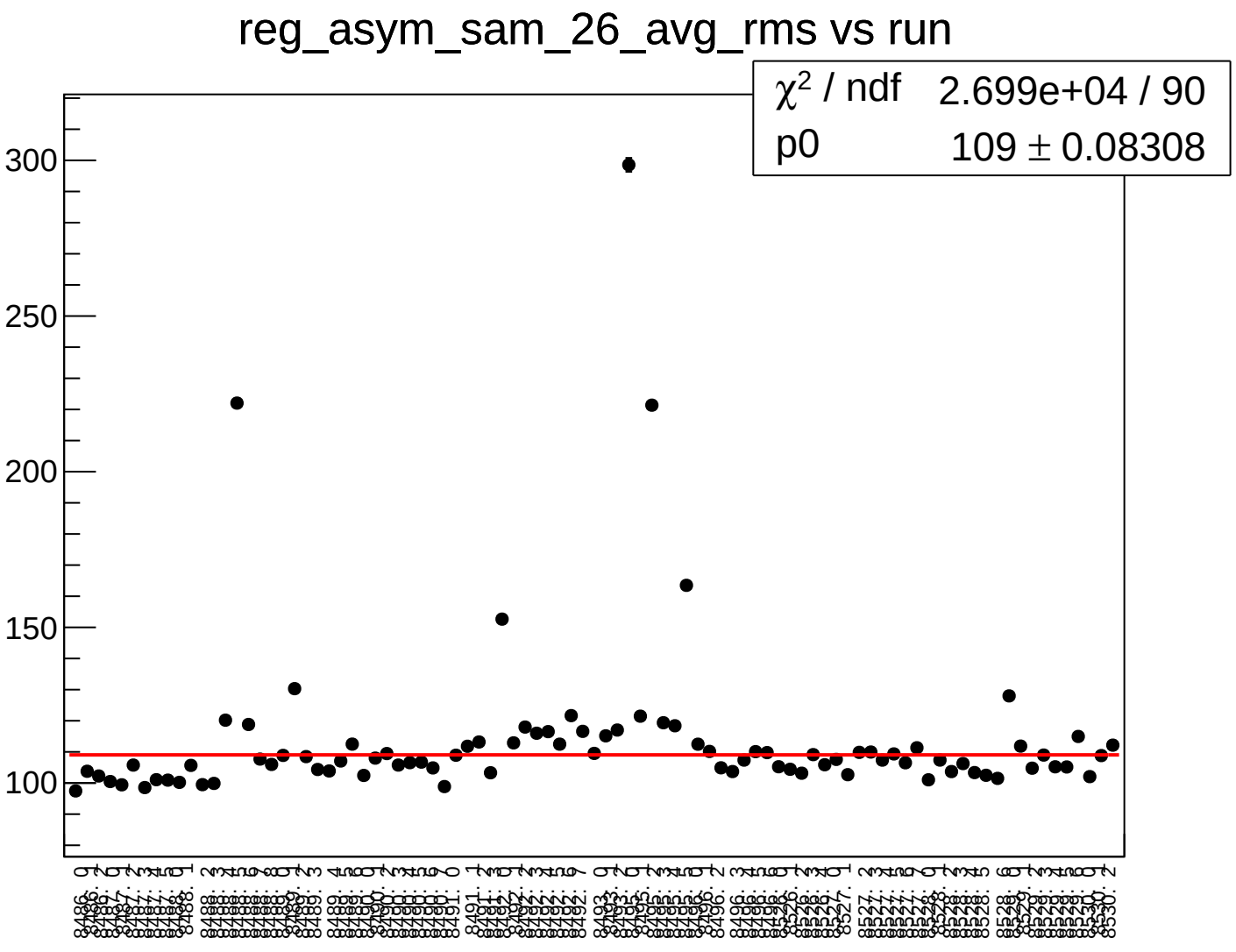

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.239e+04 / 90
p0 20.94 ± 0.01598
35
30
25
20
15

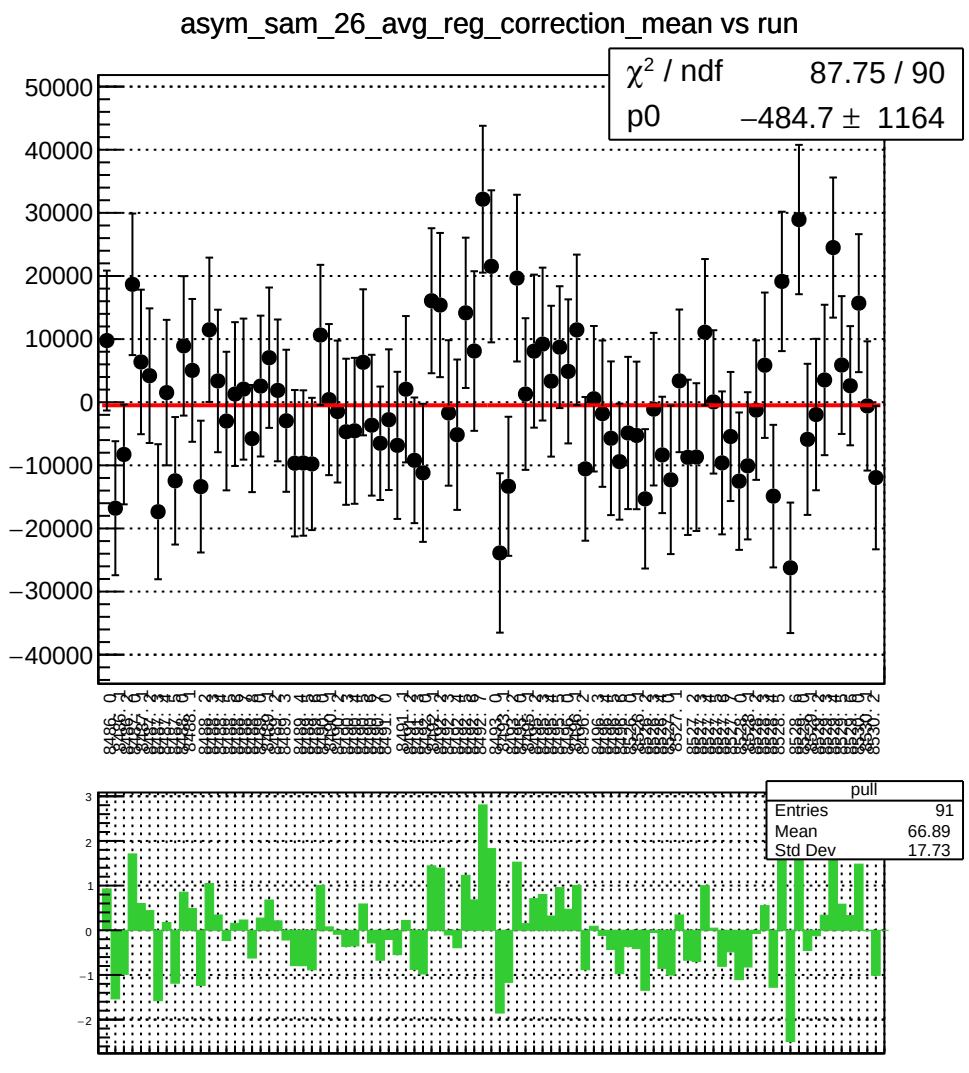

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 102.5 / 90
p0 1.045e−14 ± 1.366e−14
pull
Entries 91
Mean 105.2
Std Dev 0
pull1D
Entries 91
Mean −0.04486
Std Dev 1.061

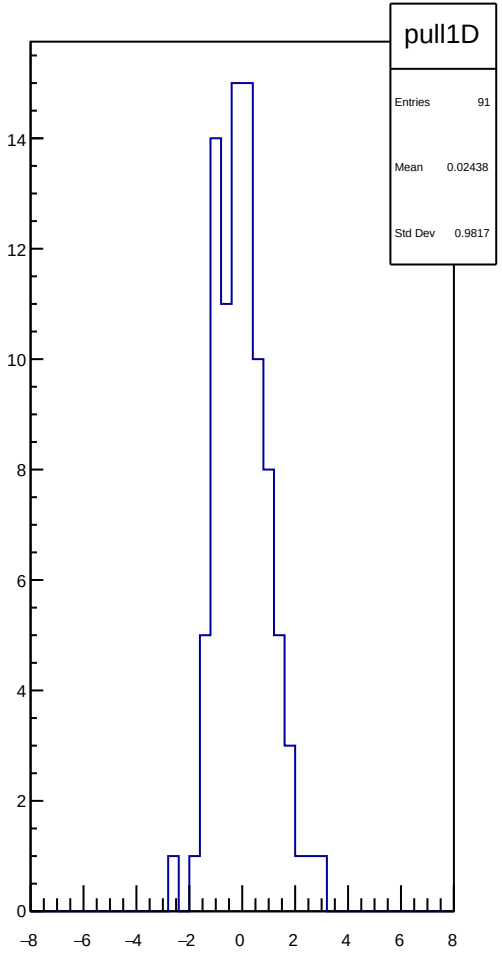

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.966e+05 / 90
p0 1.081e−11 ± 9.661e−15
45
40
35
30
25
20
15
10
5

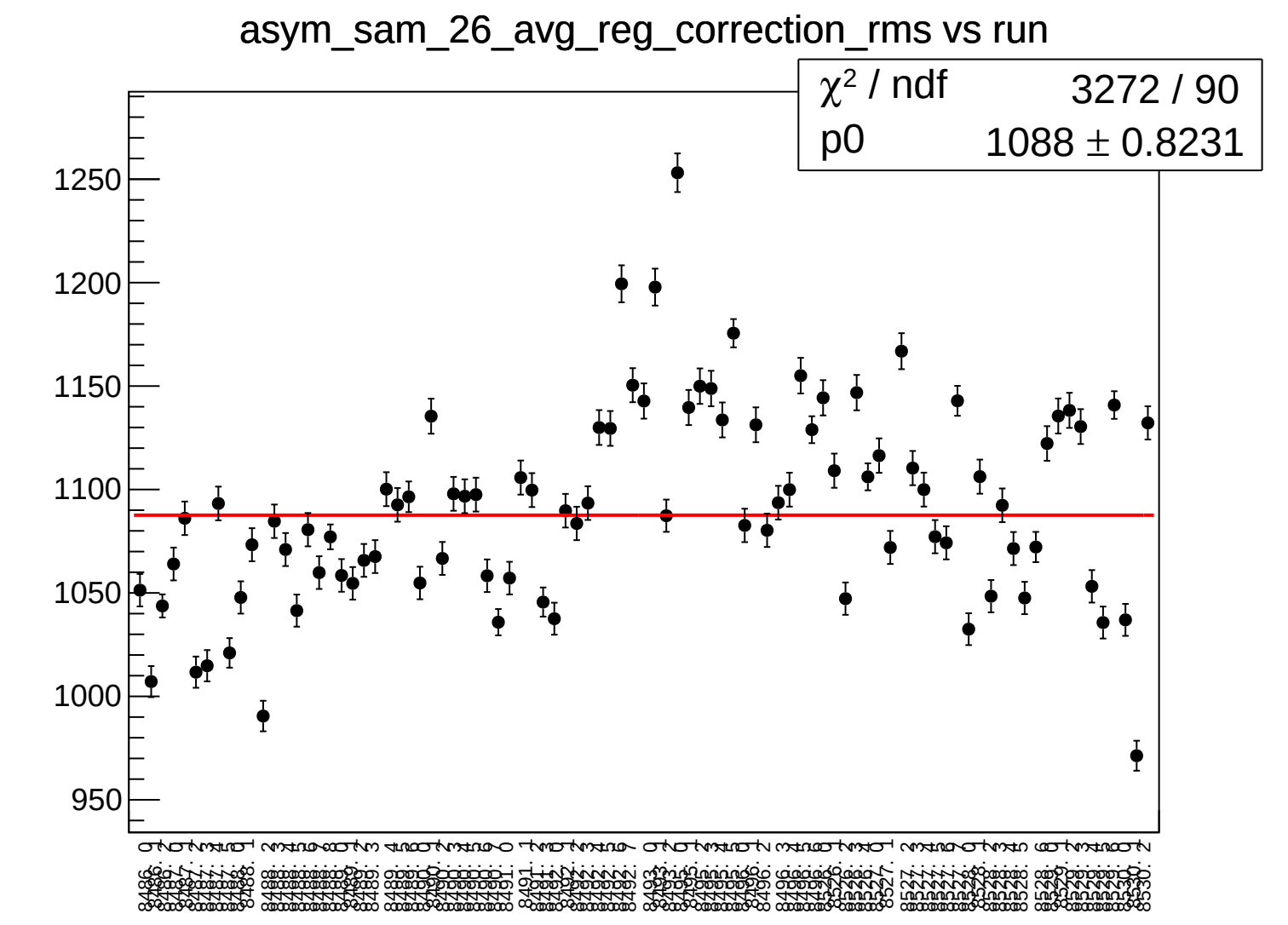

reg_asym_sam_26_avg_mean vs run
χ² / ndf 91.97 / 90
p0 244.6 ± 117.5
pull
Entries 91
Mean −159.8
Std Dev 0

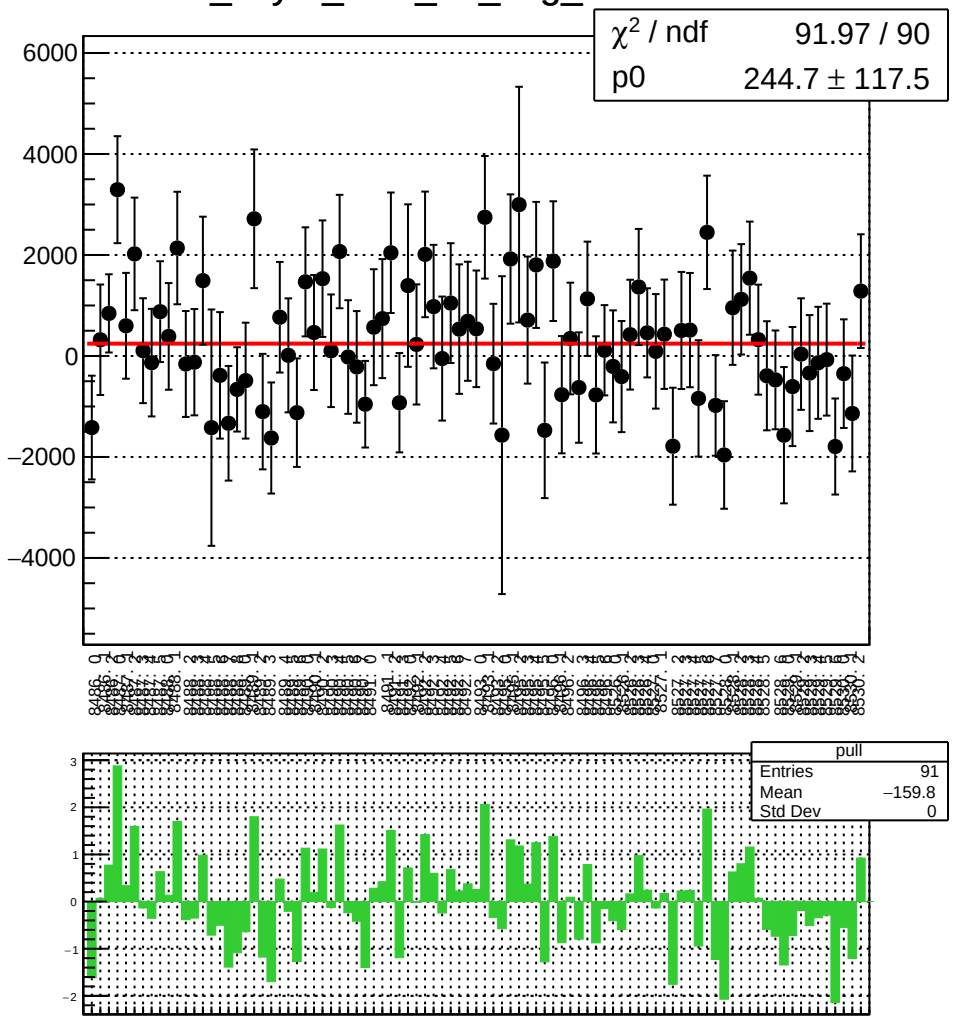

pull1D
Entries 91
Mean 0.02358
Std Dev 1.005

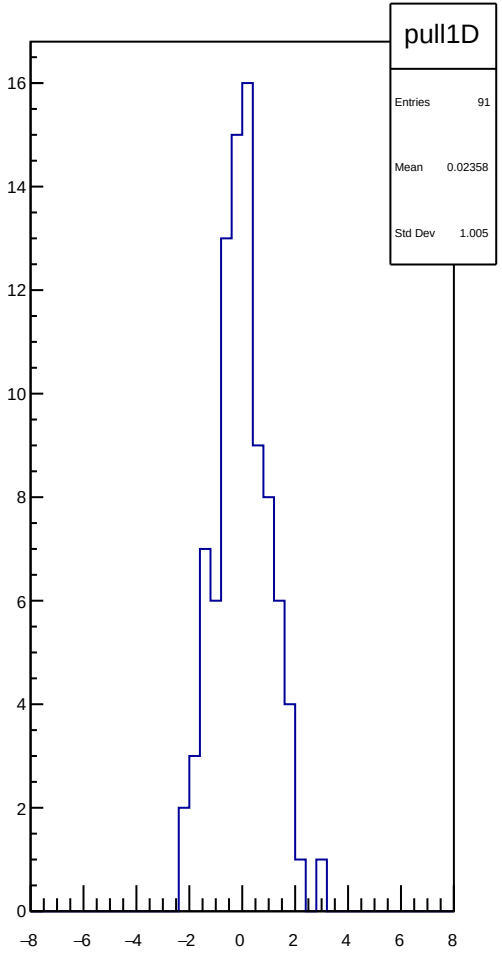

reg_asym_sam_26_avg_rms vs run
χ² / ndf 2.699e+04 / 90
p0 109 ± 0.08308
300
250
200
150
100

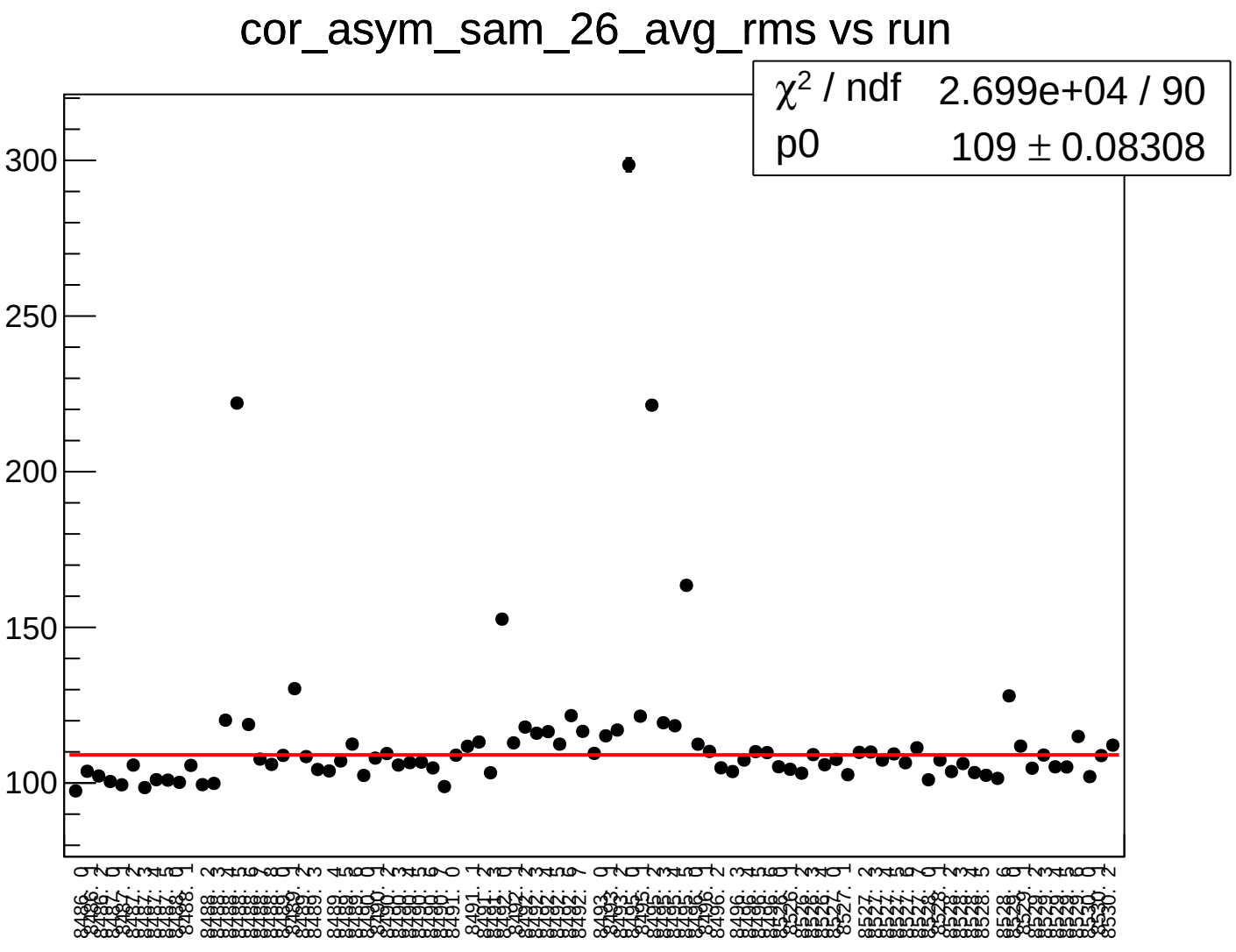

asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 87.75 / 90
p0 −484.7 ± 1164
pull
Entries 91
Mean 66.89
Std Dev 17.73

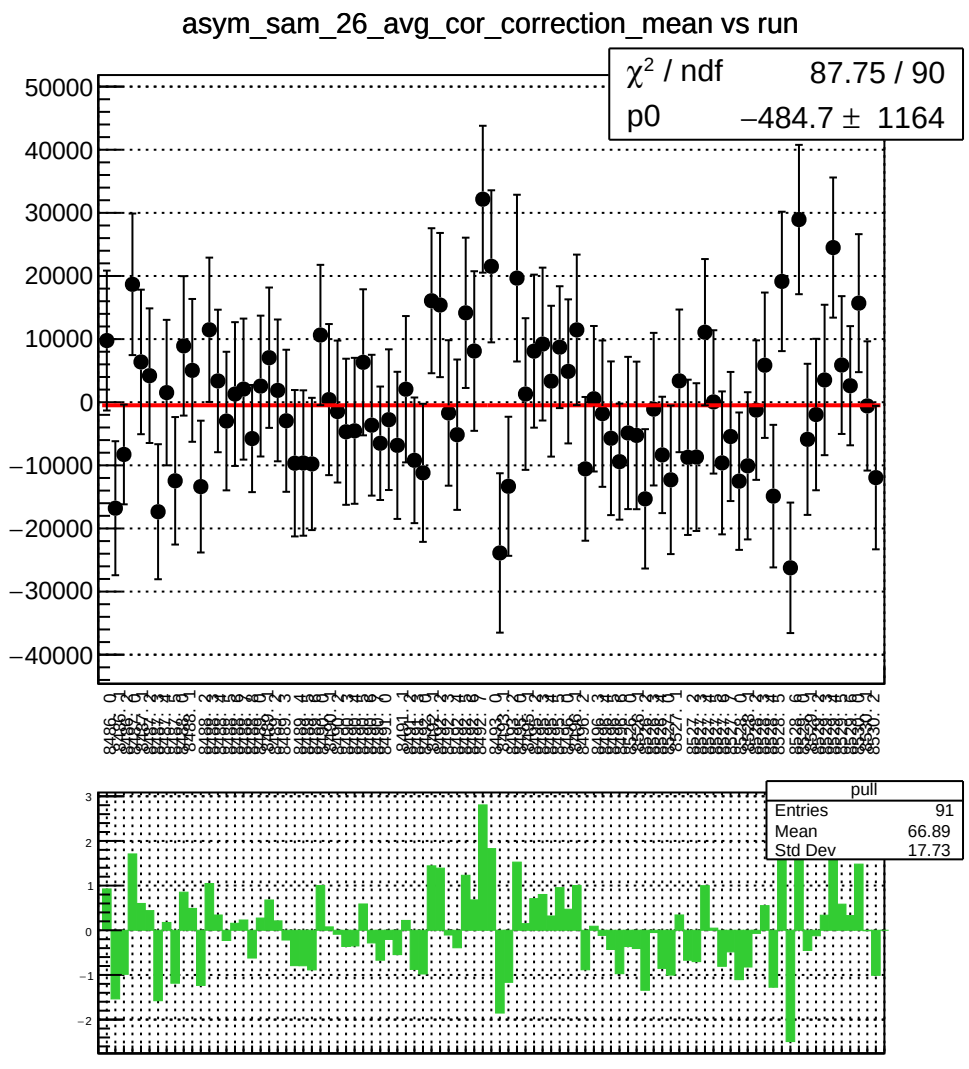

pull1D
Entries 91
Mean 0.02438
Std Dev 0.9817

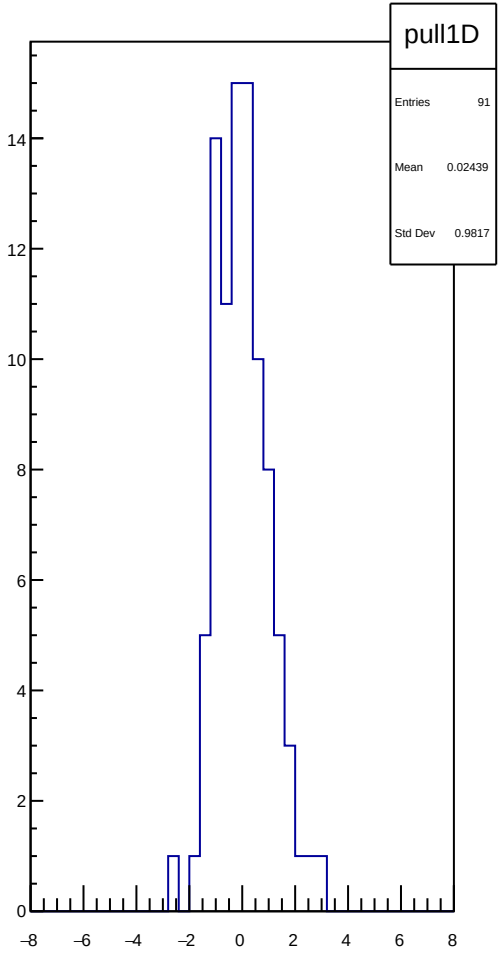

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 3272 / 90
p0 1088 ± 0.8231
1250
1200
1150
1100
1050
1000
950

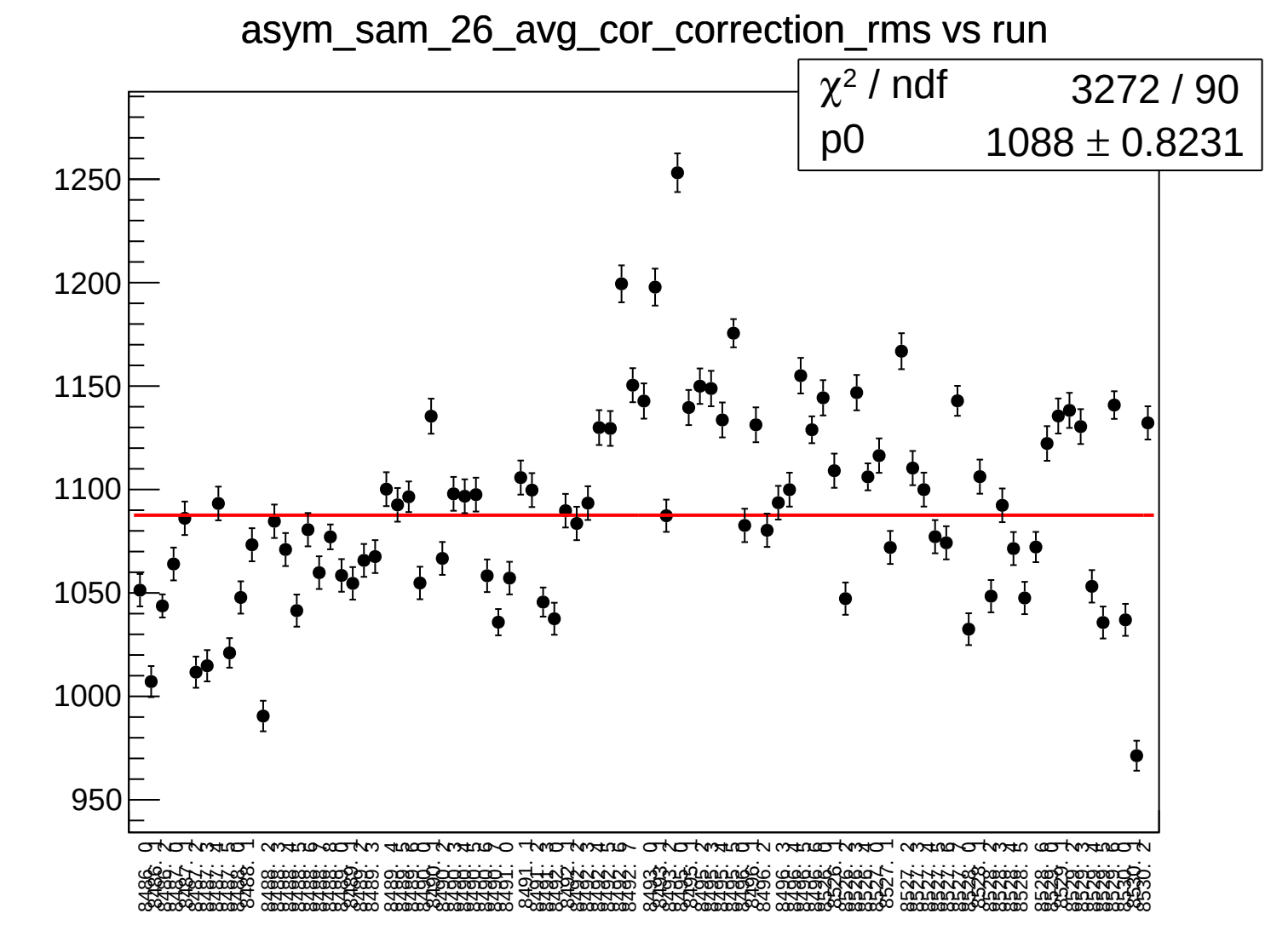

cor_asym_sam_26_avg_mean vs run
χ² / ndf 91.97 / 90
p0 244.7 ± 117.5
6000
4000
2000
0
−2000
−4000
pull
Entries 91
Mean −159.8
Std Dev 0
3
2
1
0
−1
−2

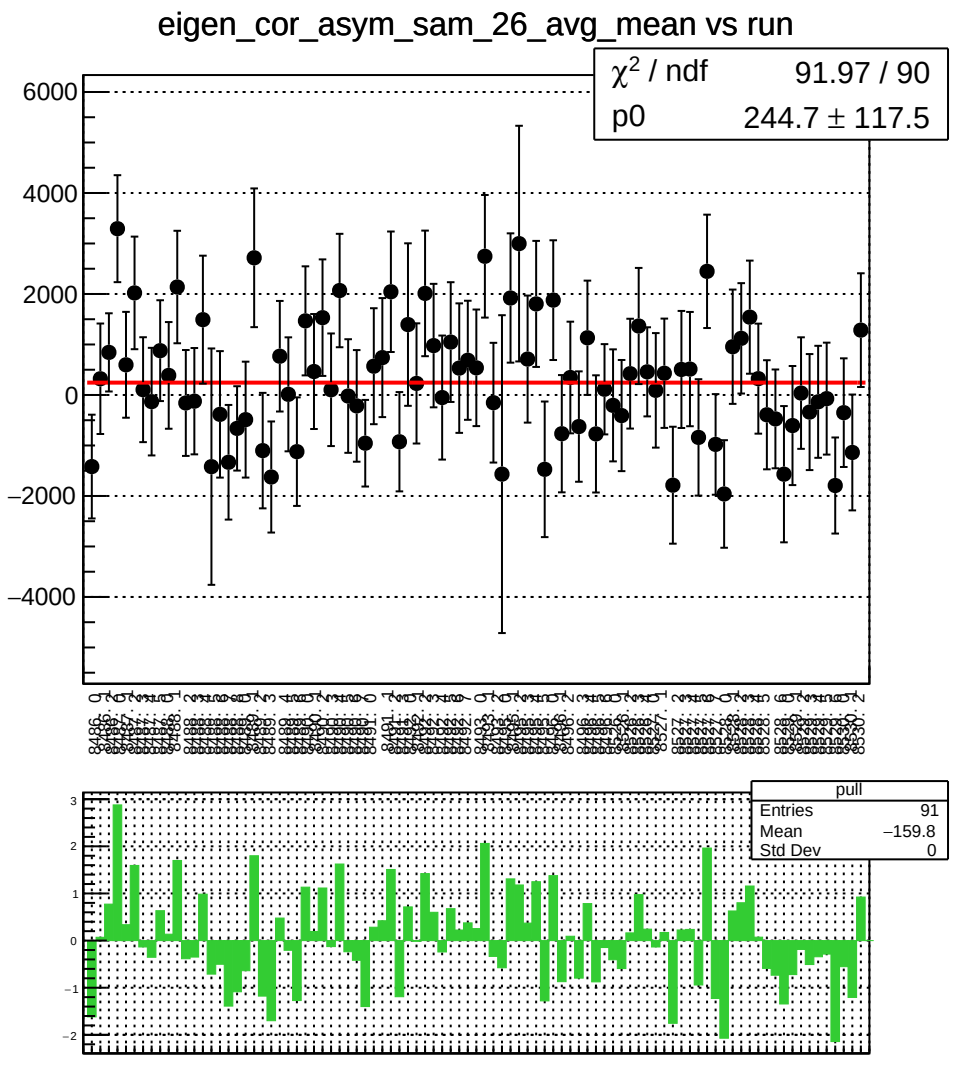

pull1D
Entries 91
Mean 0.02358
Std Dev 1.005
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

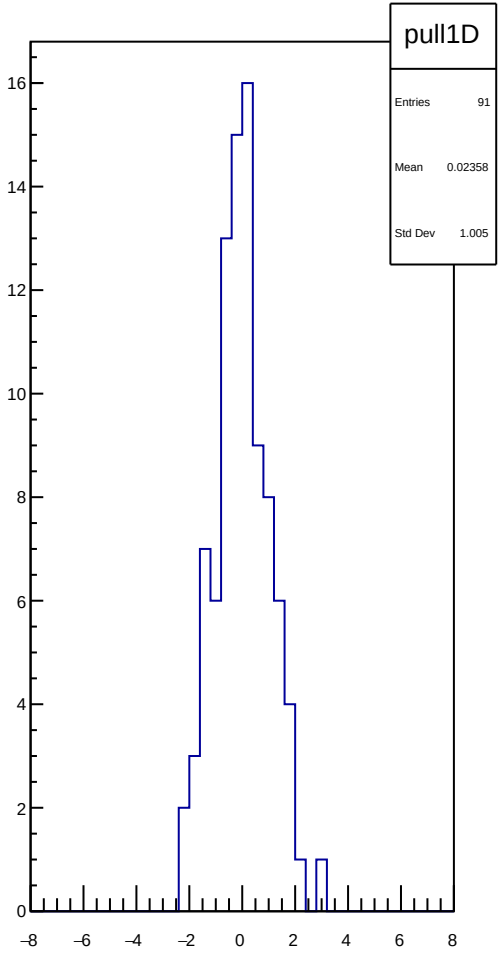

cor_asym_sam_26_avg_rms vs run
χ² / ndf 2.699e+04 / 90
p0 109 ± 0.08308
300
250
200
150
100

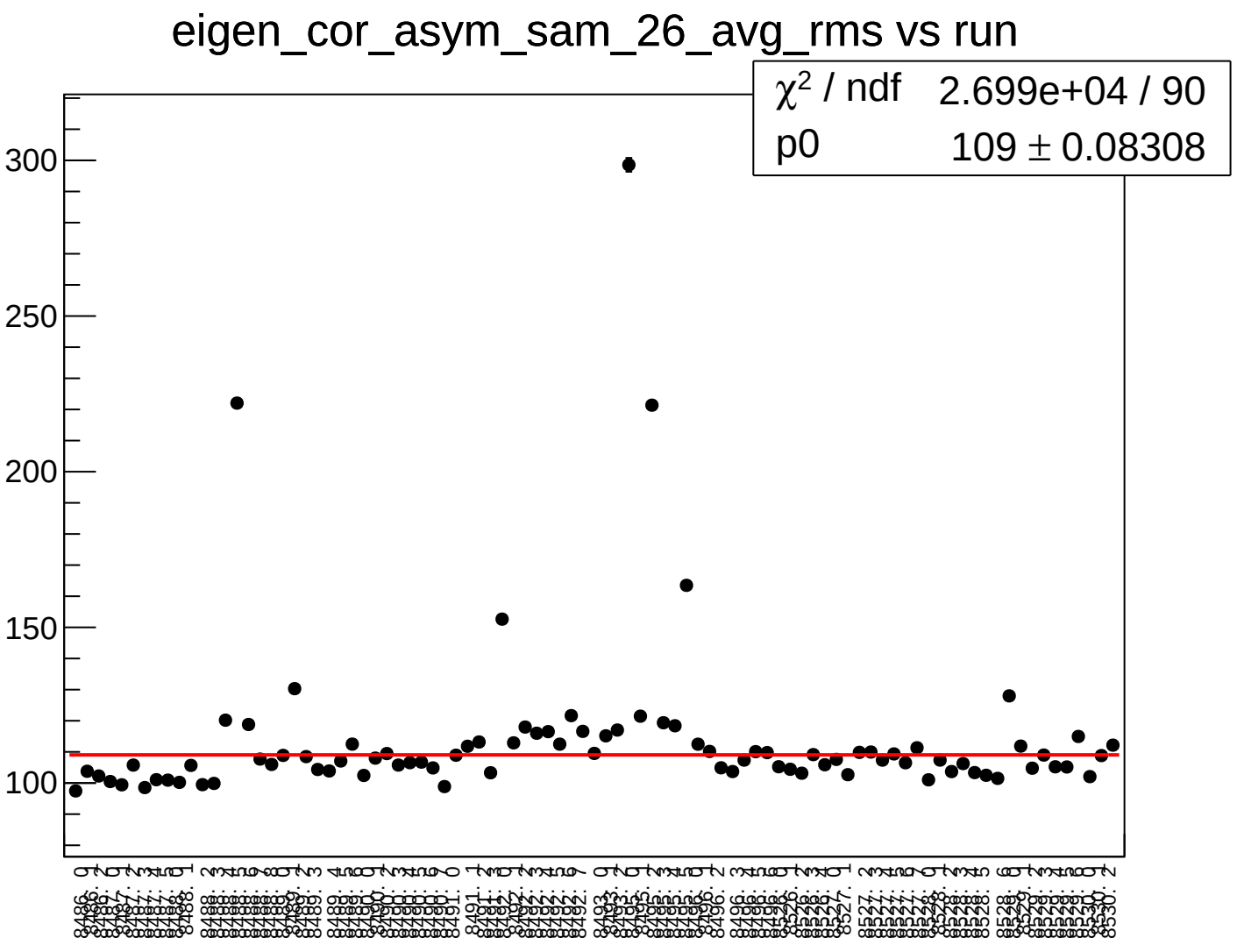

asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 87.75 / 90
p0 −484.7 ± 1164
pull
Entries 91
Mean 66.89
Std Dev 17.73

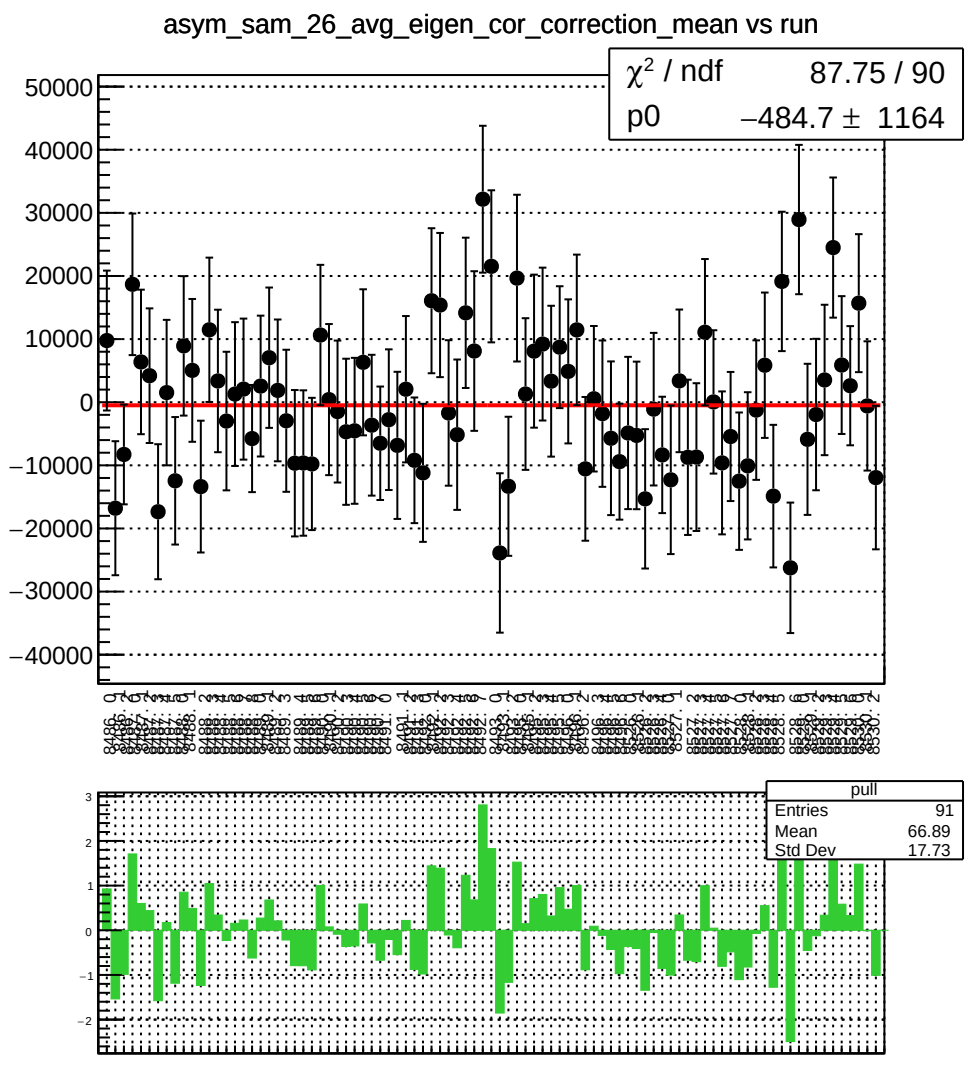

pull1D
Entries 91
Mean 0.02439
Std Dev 0.9817

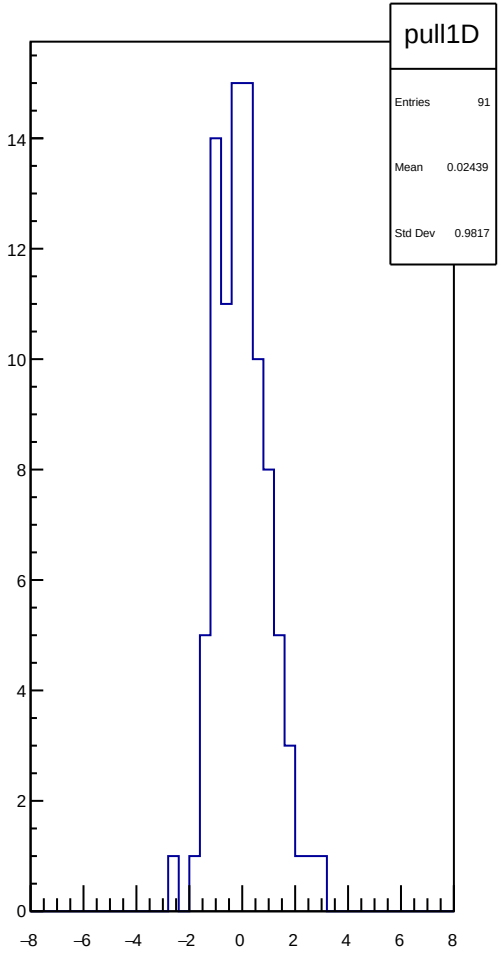

asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 3272 / 90
p0 1088 ± 0.8231
1250
1200
1150
1100
1050
1000
950

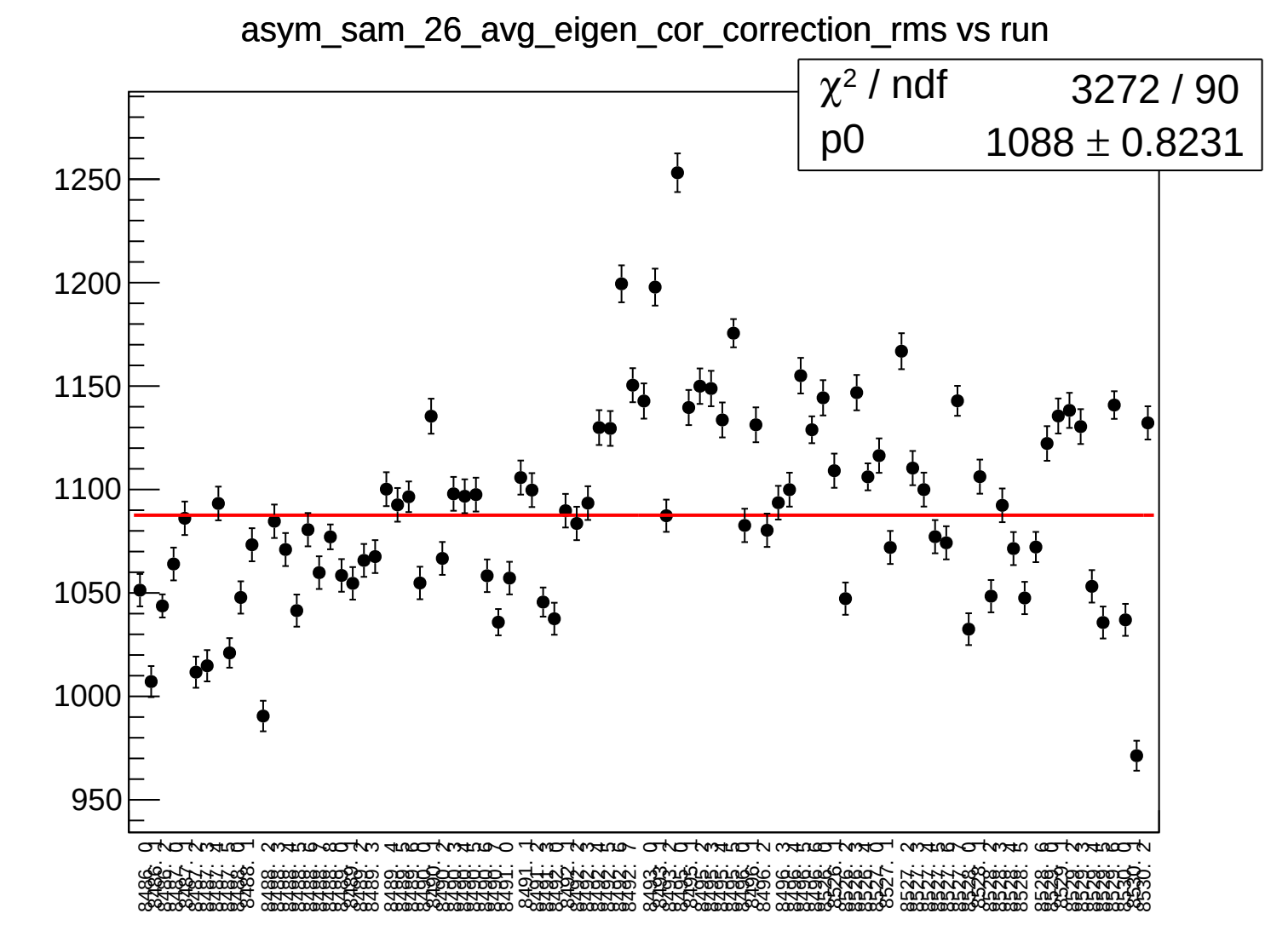

eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 91.97 / 90
p0 244.7 ± 117.5
6000
4000
2000
0
−2000
−4000
pull
Entries 91
Mean −159.8
Std Dev 0
3
2
1
0
−1
−2

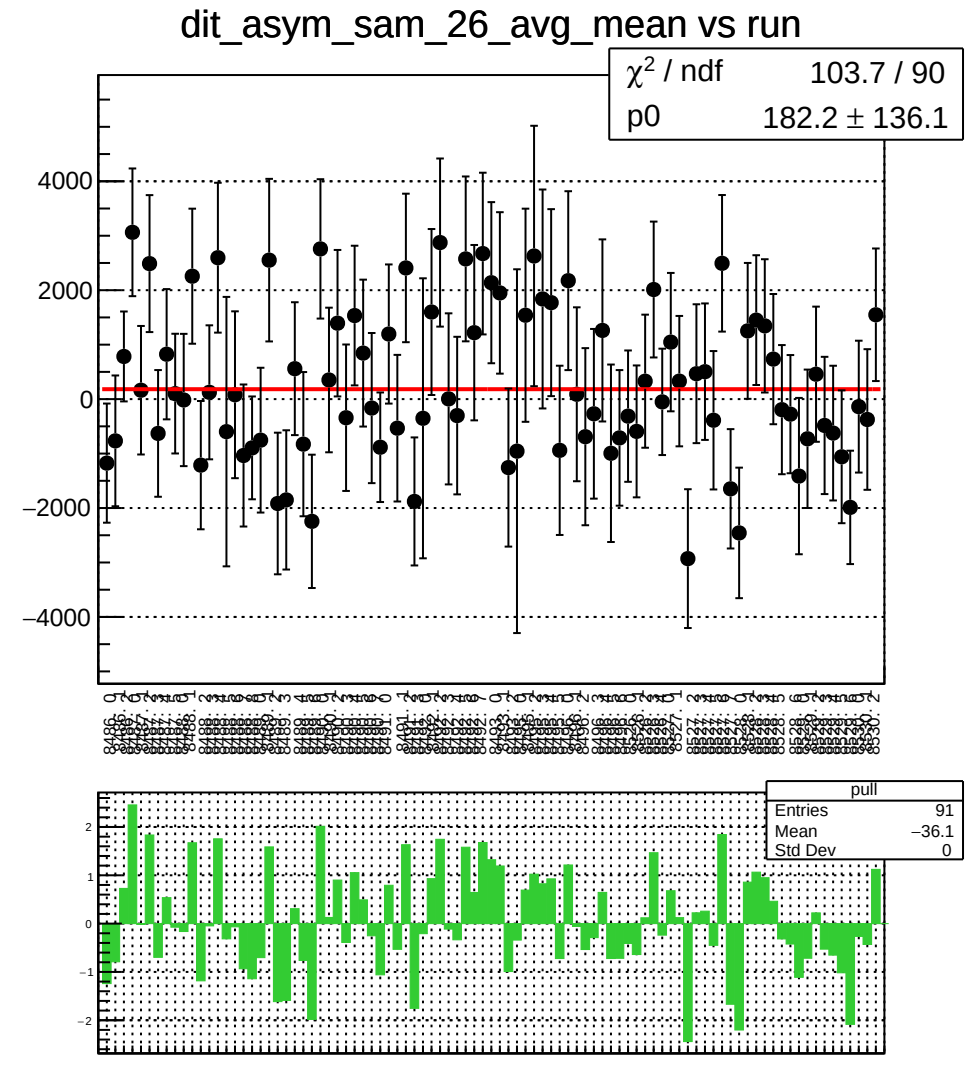

pull1D
Entries 91
Mean 0.02358
Std Dev 1.005
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

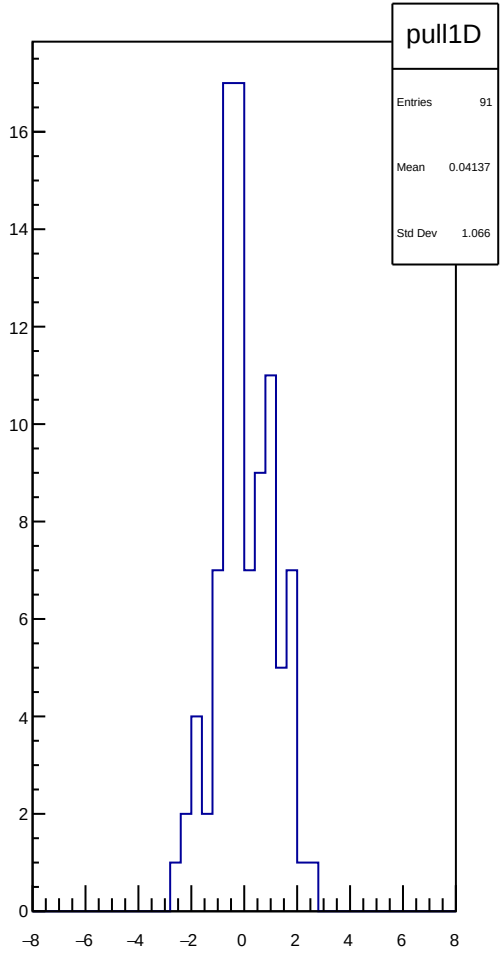

eigen_cor_asym_sam_26_avg_rms vs run
χ² / ndf 2.699e+04 / 90
p0 109 ± 0.08308
300
250
200
150
100

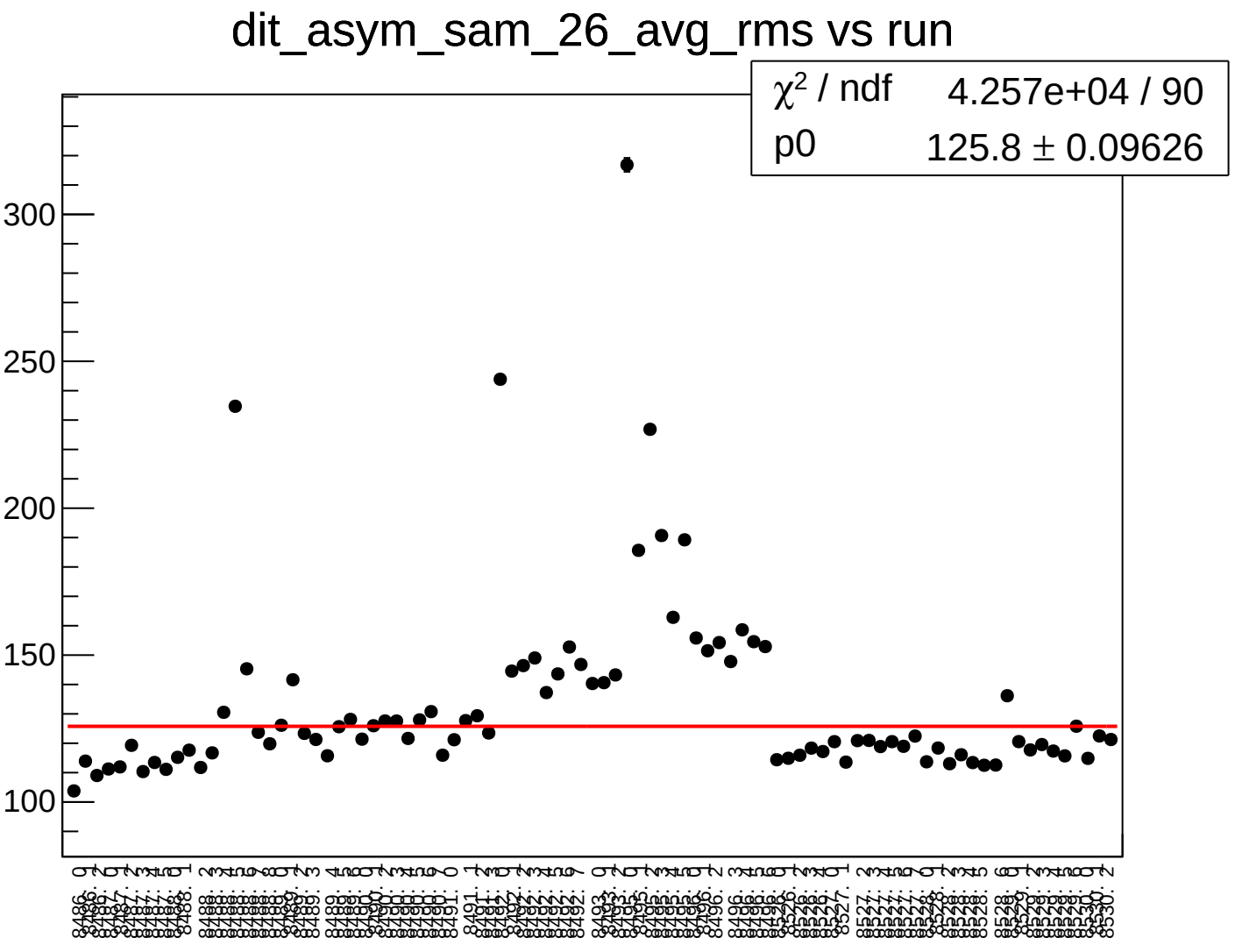

asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 87.75 / 90
p0 −484.7 ± 1164
pull
Entries 91
Mean 66.89
Std Dev 17.73

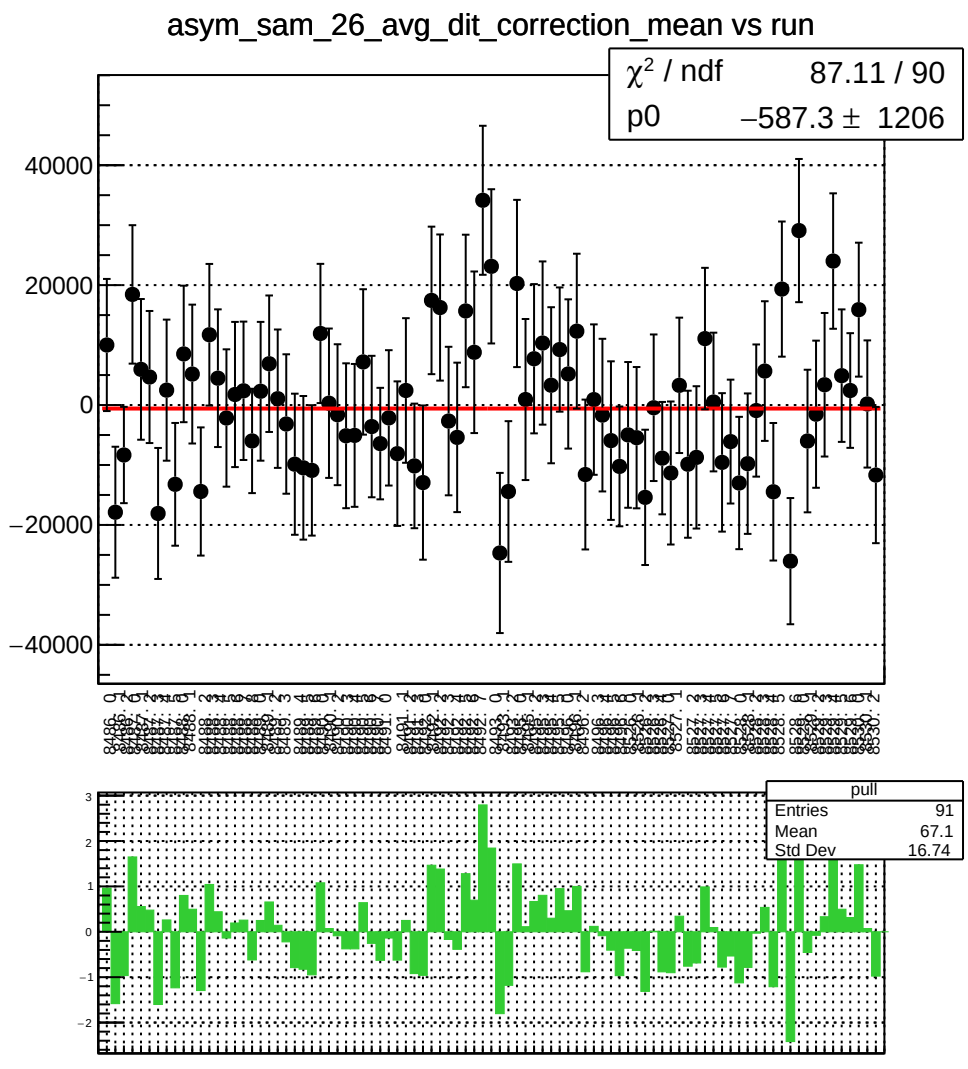

pull1D
Entries 91
Mean 0.02439
Std Dev 0.9817

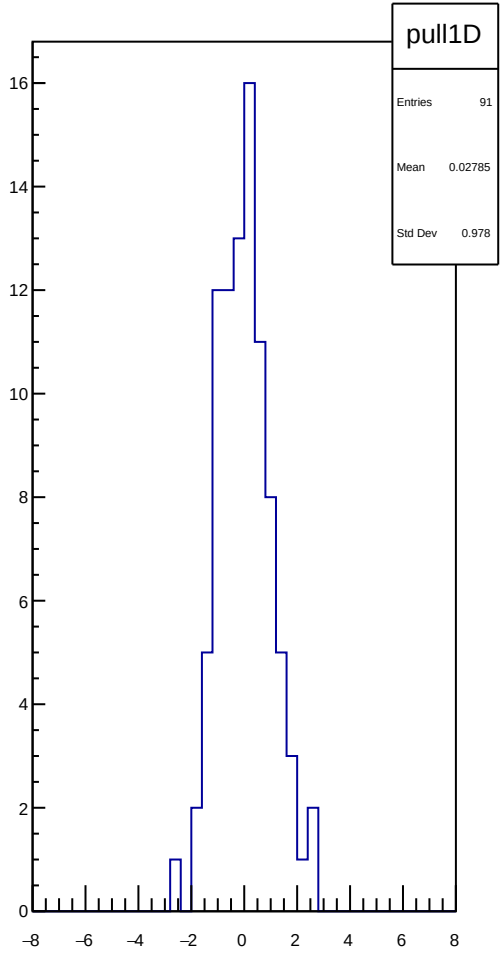

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 3272 / 90
p0 1088 ± 0.8231
1250
1200
1150
1100
1050
1000
950

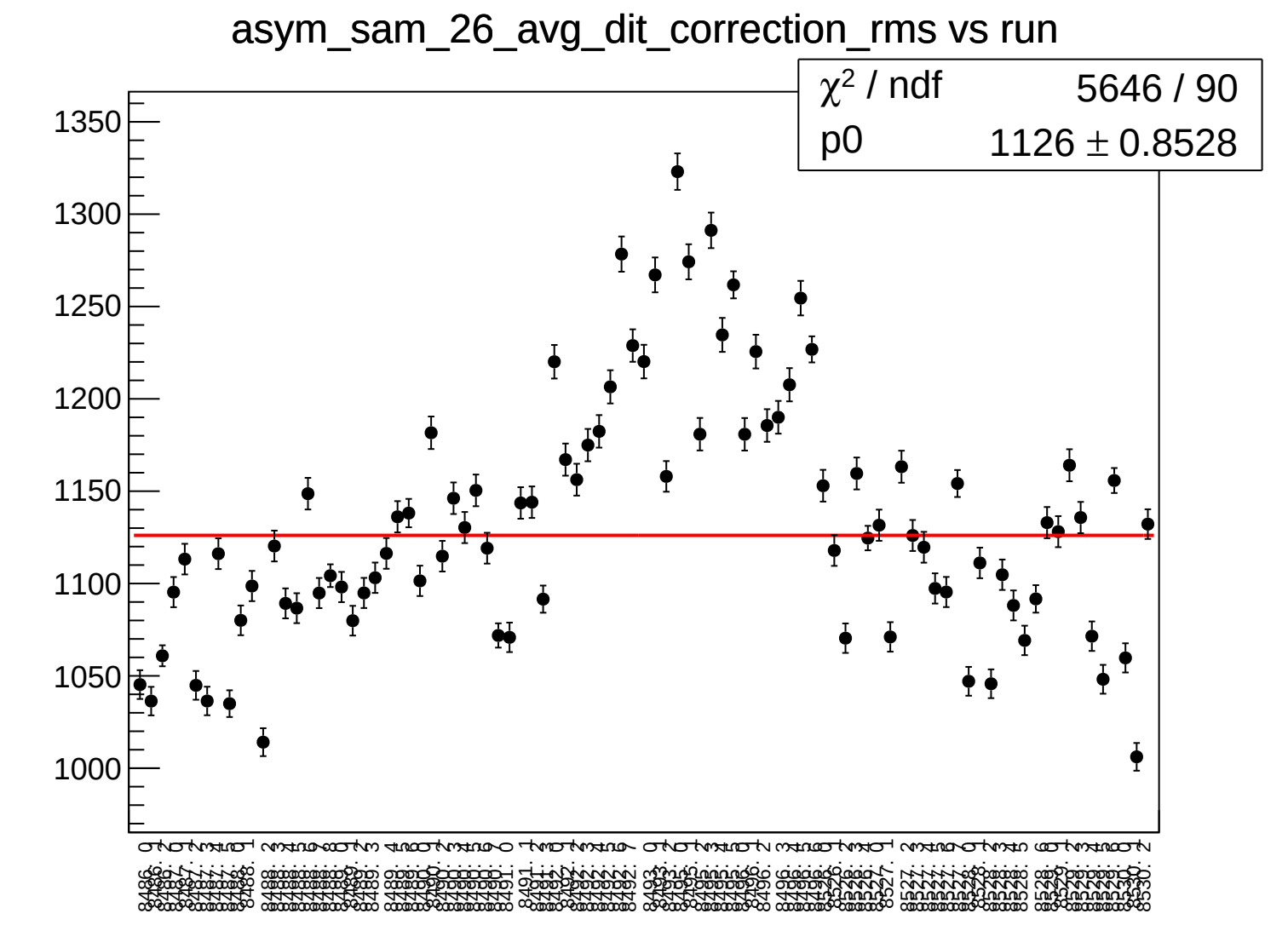

dit_asym_sam_26_avg_mean vs run
χ² / ndf 103.7 / 90
p0 182.2 ± 136.1
4000
2000
0
−2000
−4000
pull
Entries 91
Mean −36.1
Std Dev 0
2
1
0
−1
−2

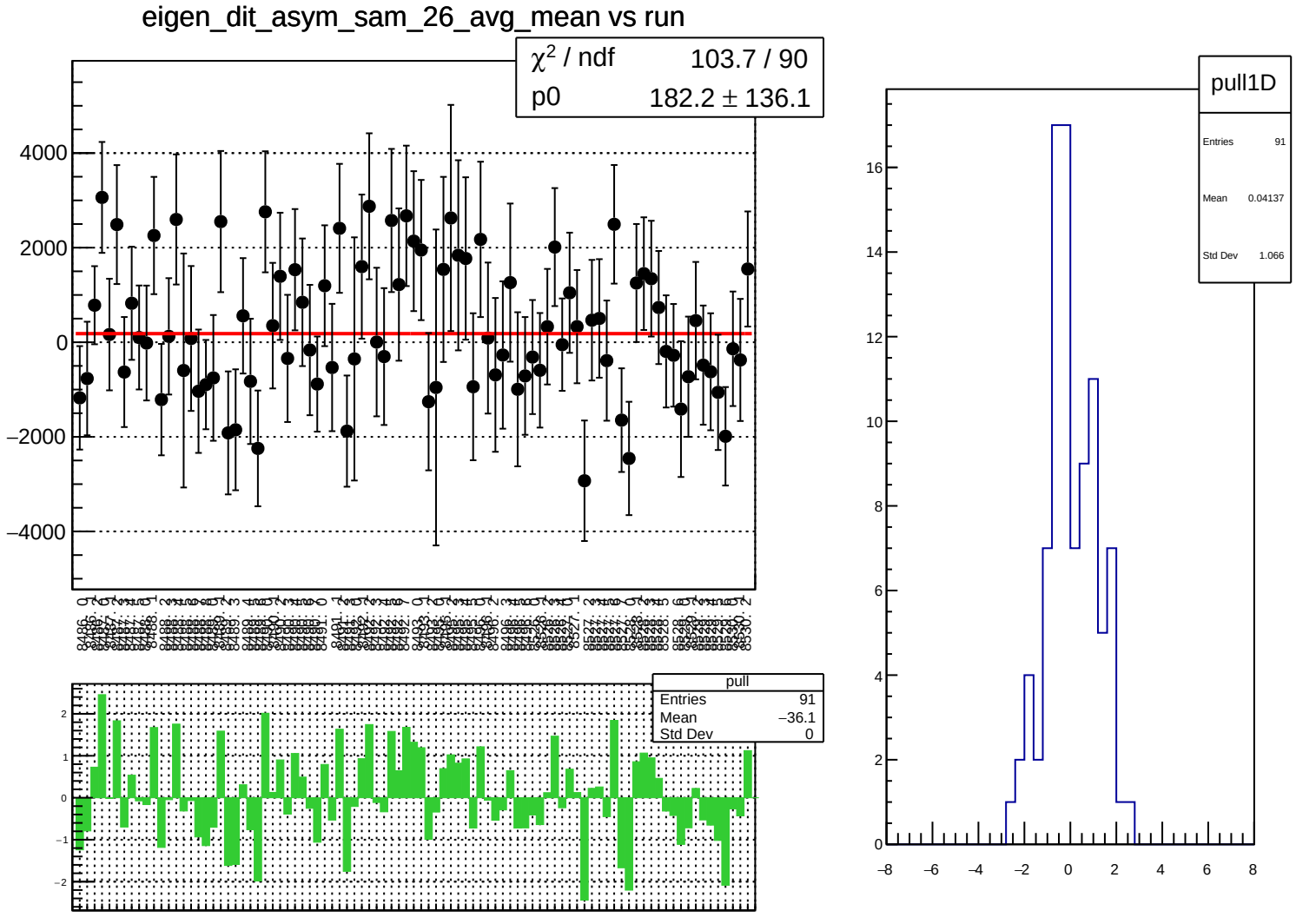

pull1D
Entries 91
Mean 0.04137
Std Dev 1.066
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

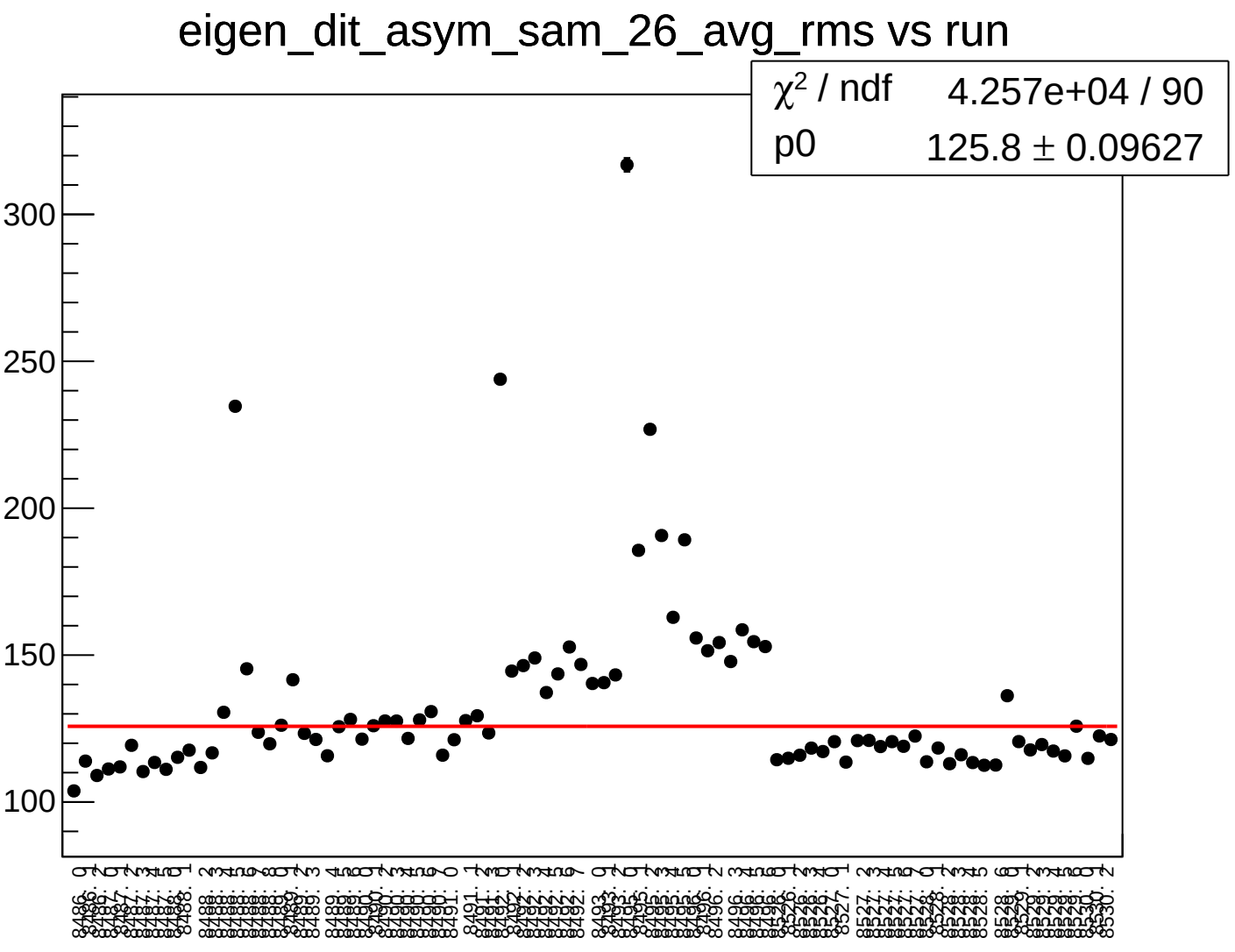

dit_asym_sam_26_avg_rms vs run
χ² / ndf 4.257e+04 / 90
p0 125.8 ± 0.09626
300
250
200
150
100

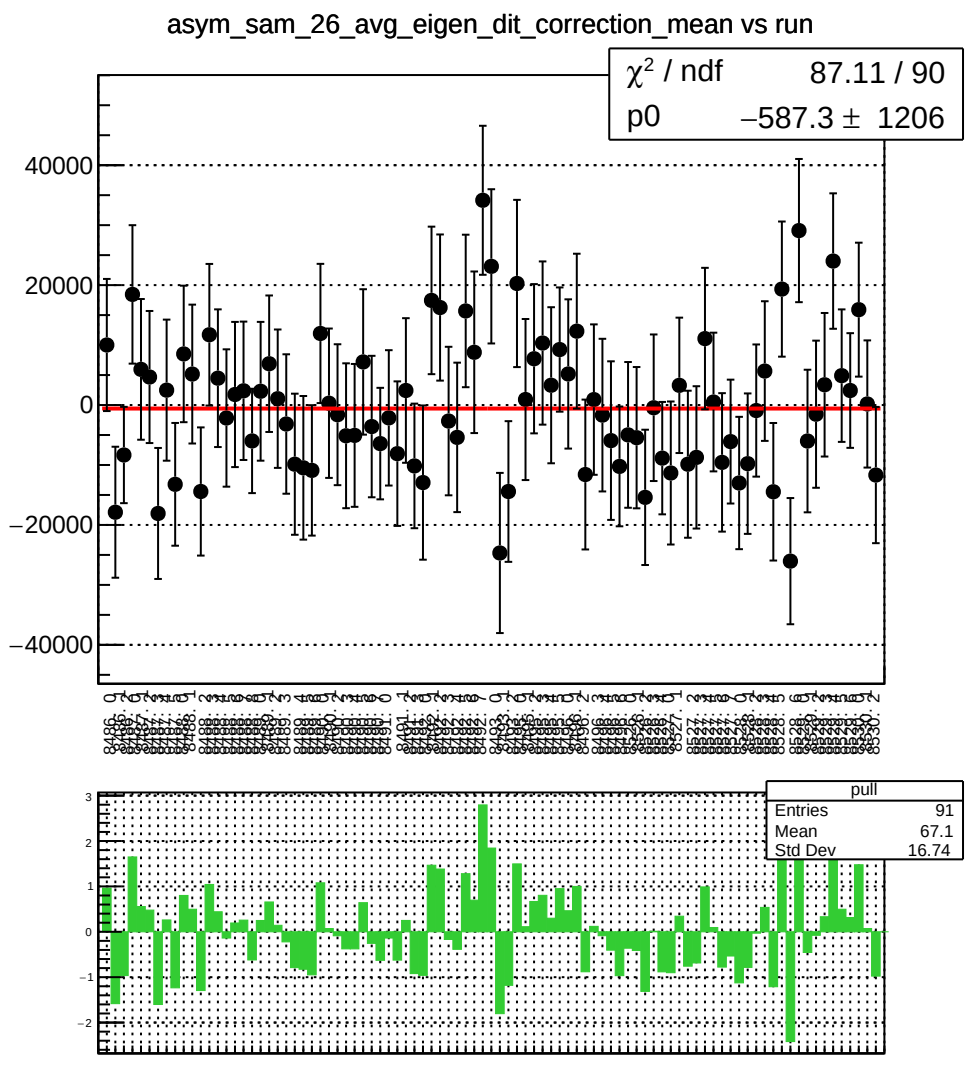

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 87.11 / 90
p0 −587.3 ± 1206
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 67.1
Std Dev 16.74
3
2
1
0
−1
−2

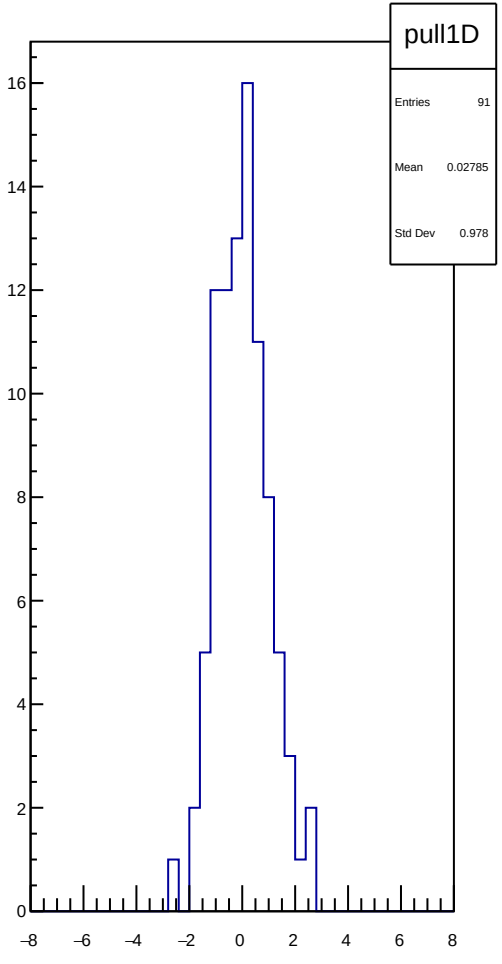

pull1D
Entries 91
Mean 0.02785
Std Dev 0.978
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

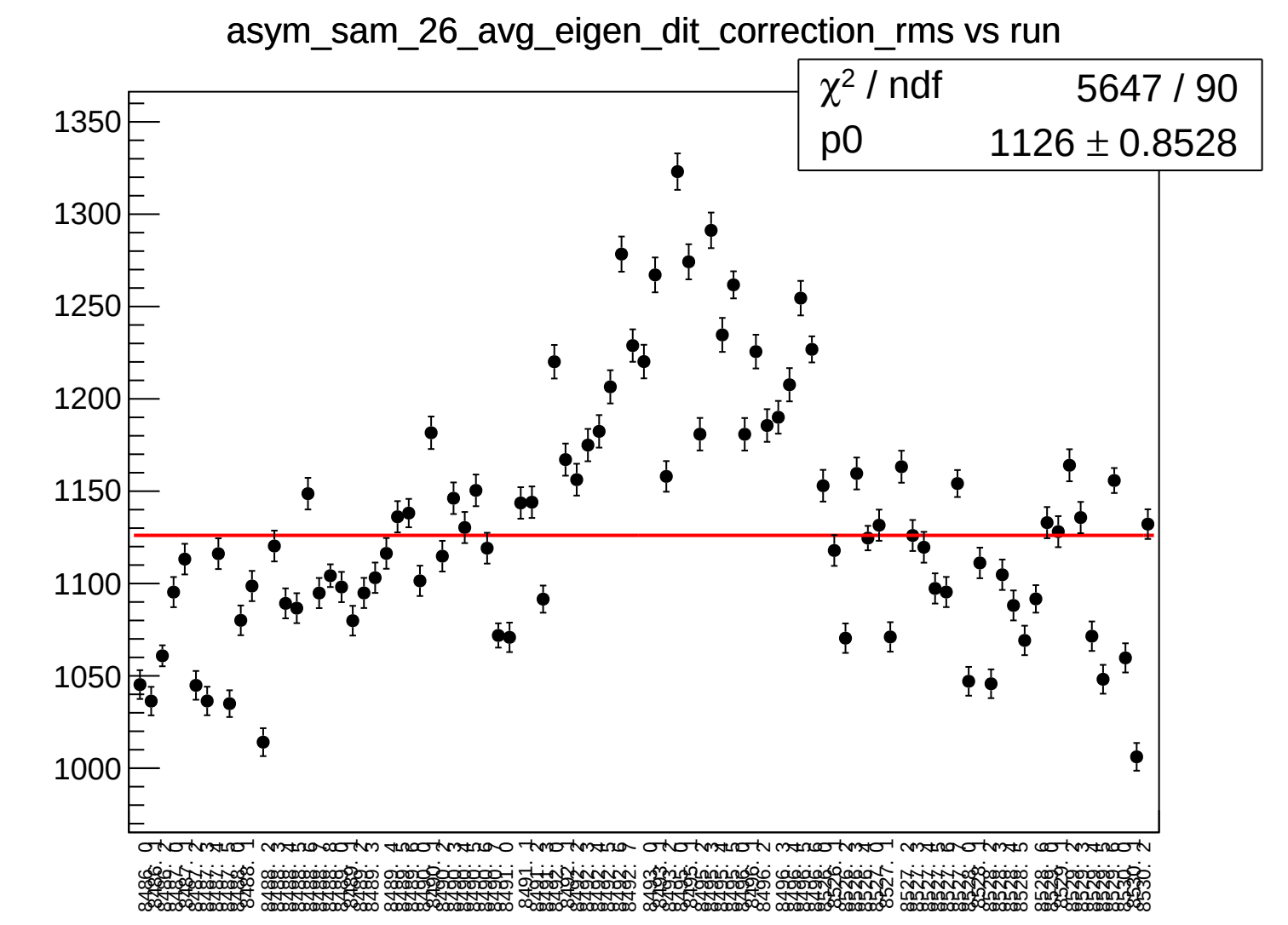

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 5646 / 90
p0 1126 ± 0.8528
1350
1300
1250
1200
1150
1100
1050
1000

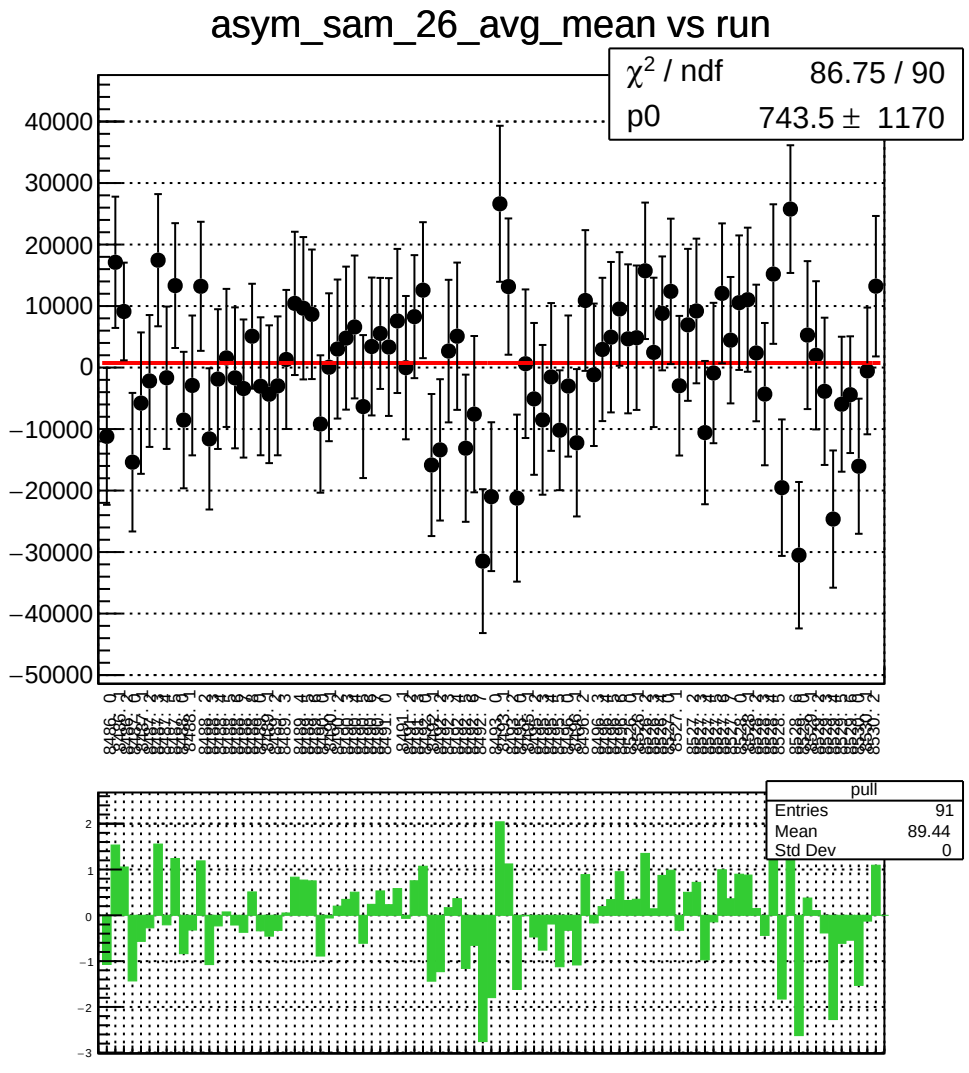

eigen_dit_asym_sam_26_avg_mean vs run
χ² / ndf 103.7 / 90
p0 182.2 ± 136.1
4000
2000
0
−2000
−4000
pull
Entries 91
Mean −36.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.04137
Std Dev 1.066
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

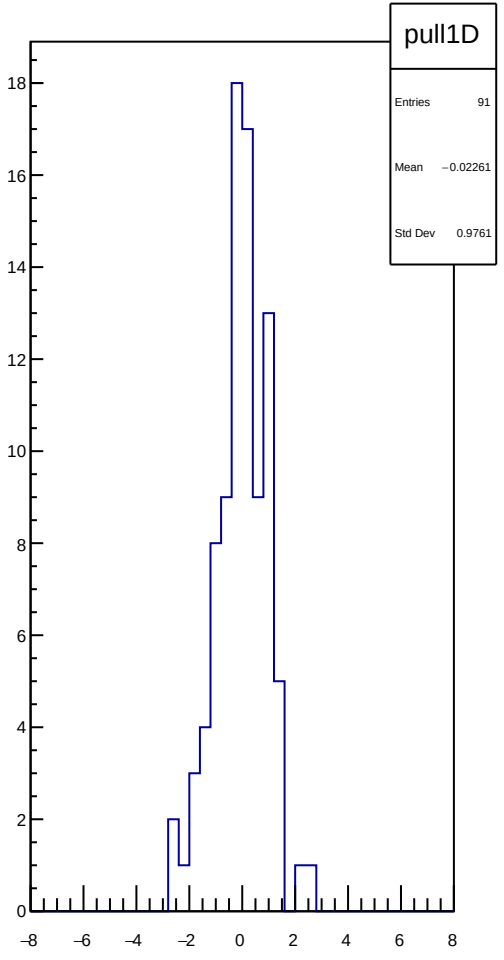

eigen_dit_asym_sam_26_avg_rms vs run
χ² / ndf 4.257e+04 / 90
p0 125.8 ± 0.09627
300
250
200
150
100

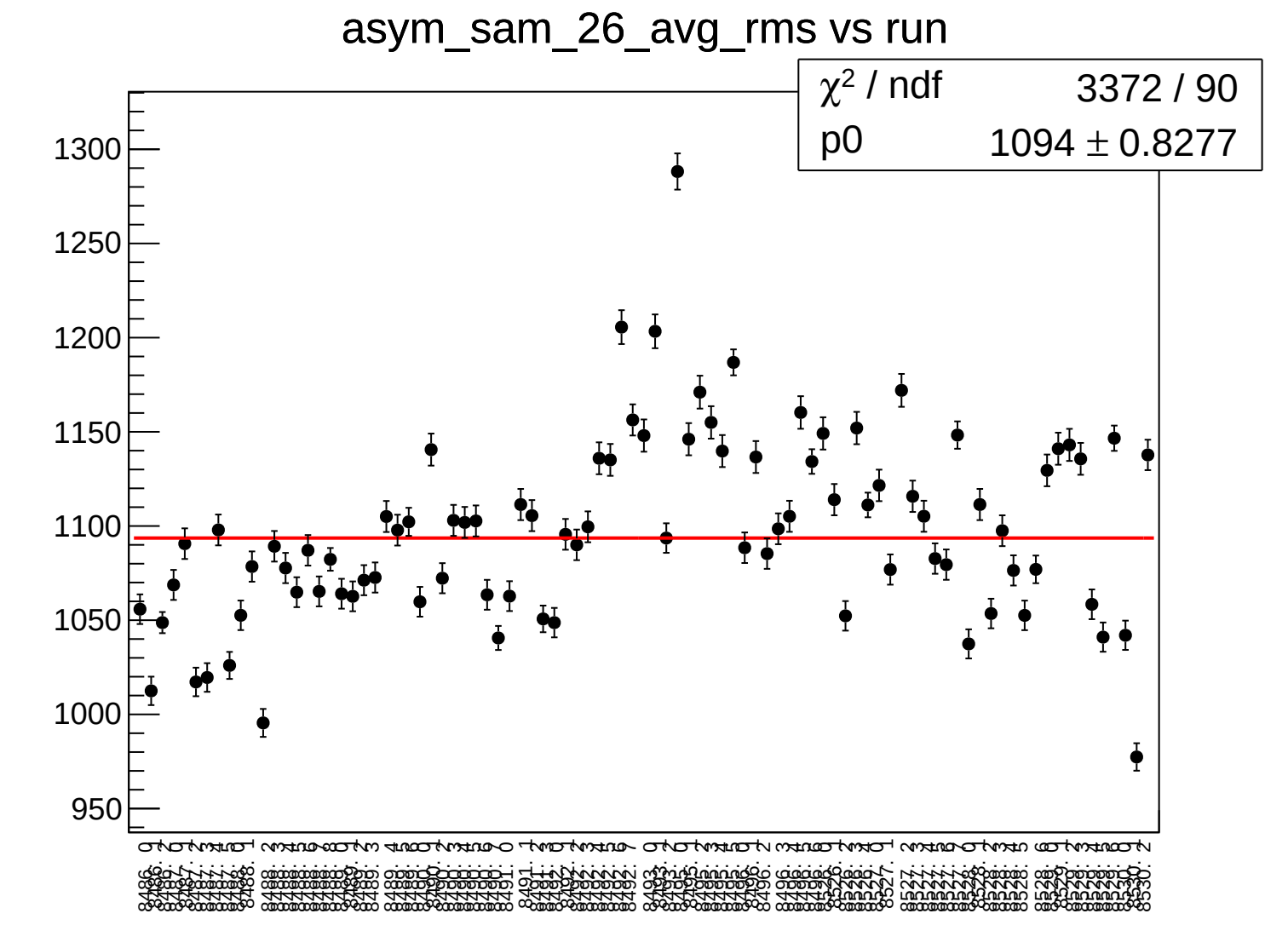

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 87.11 / 90
p0 −587.3 ± 1206
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 67.1
Std Dev 16.74
3
2
1
0
−1
−2

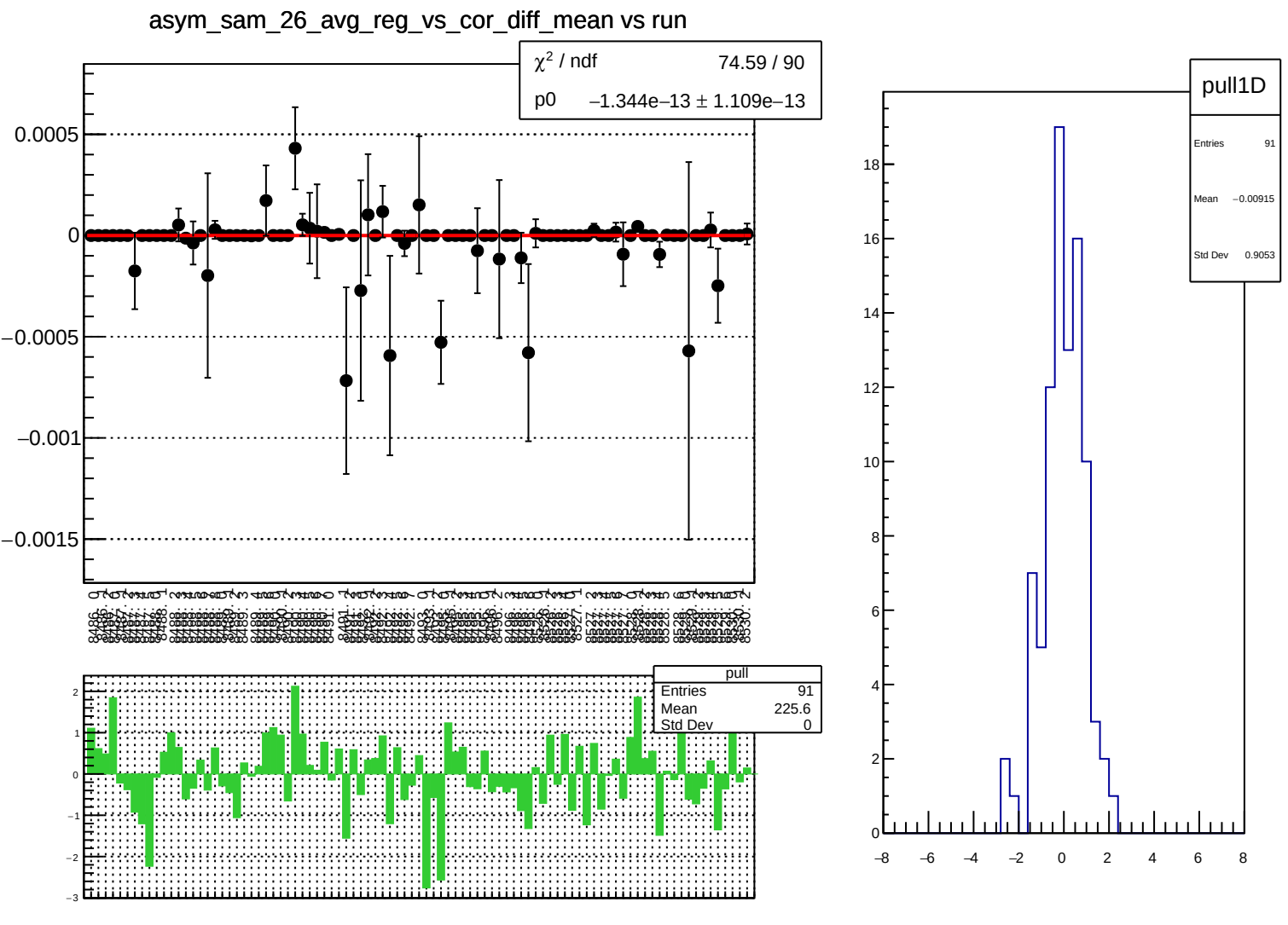

pull1D
Entries 91
Mean 0.02785
Std Dev 0.978
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

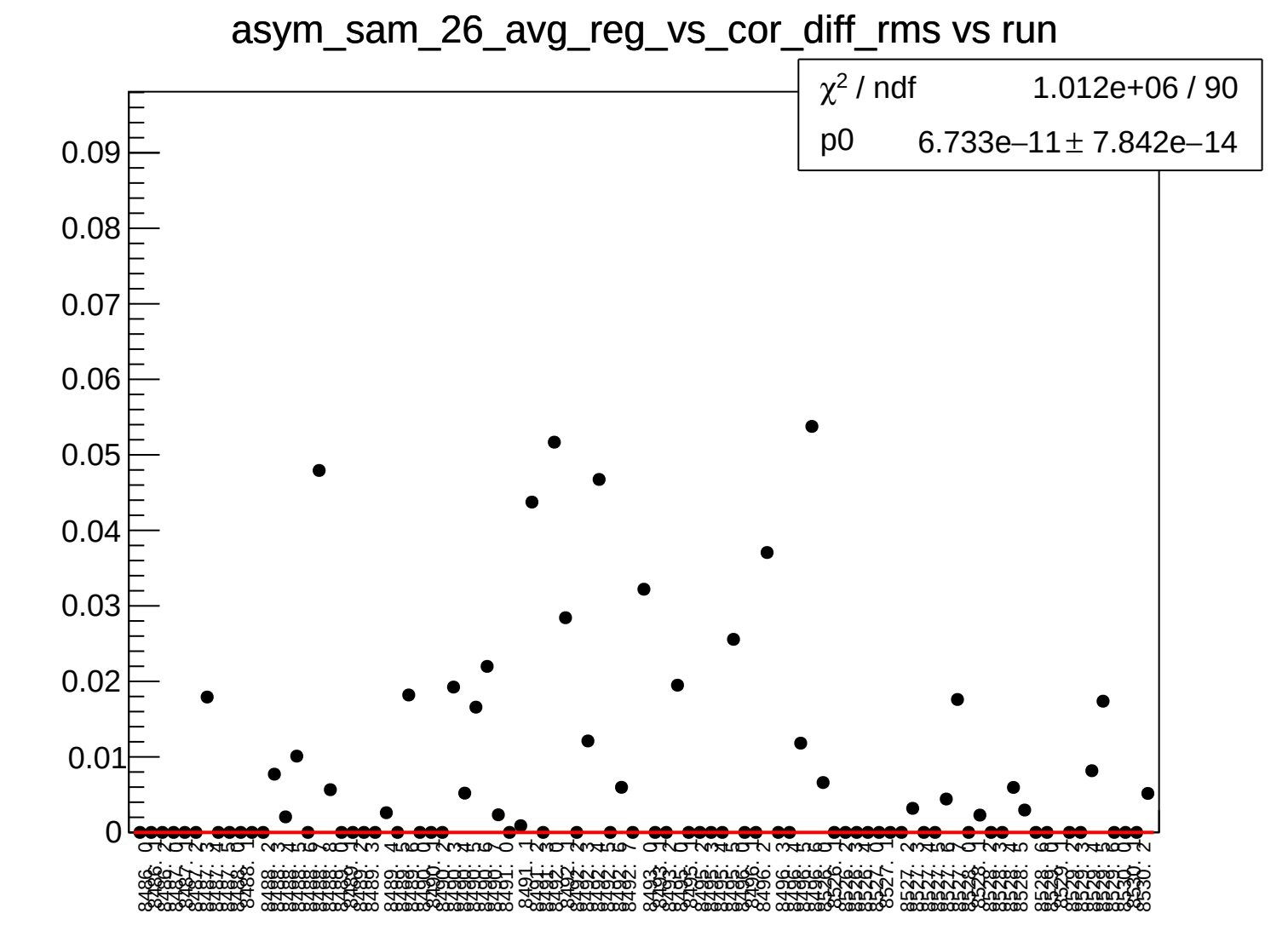

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 5647 / 90
p0 1126 ± 0.8528
1350
1300
1250
1200
1150
1100
1050
1000

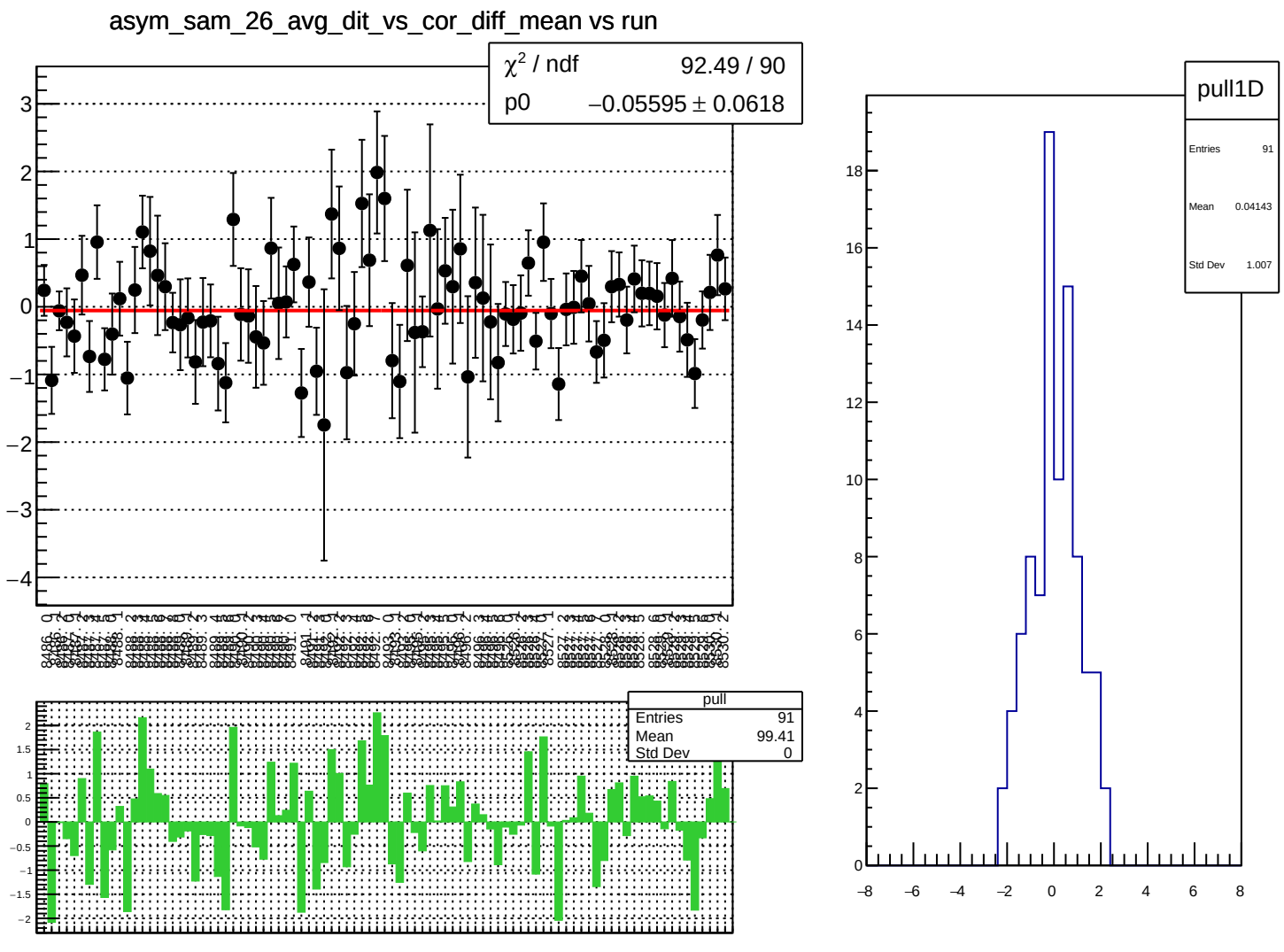

asym_sam_26_avg_mean vs run
χ² / ndf 86.75 / 90
p0 743.5 ± 1170
pull
Entries 91
Mean 89.44
Std Dev 0

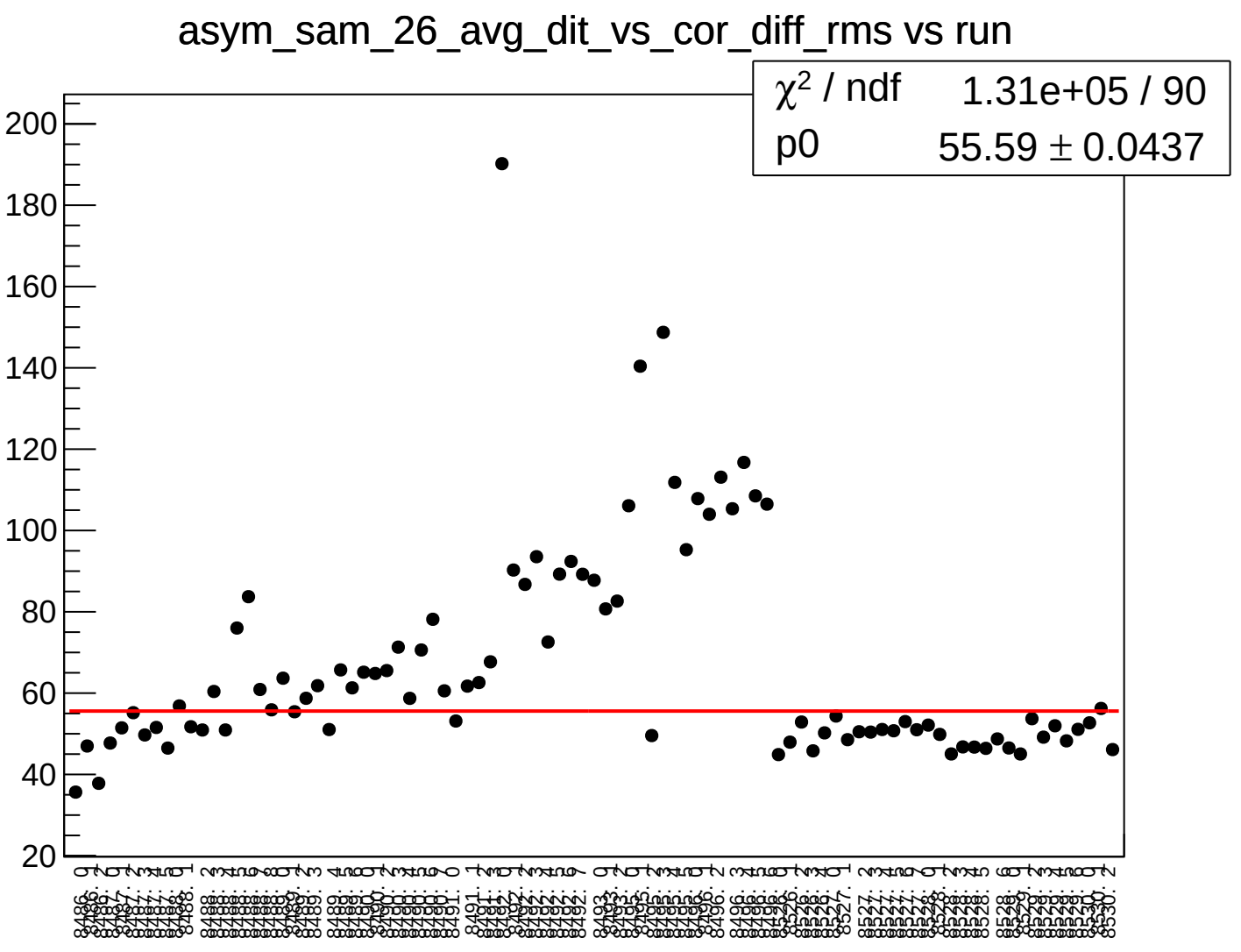

pull1D
Entries 91
Mean −0.02261
Std Dev 0.9761

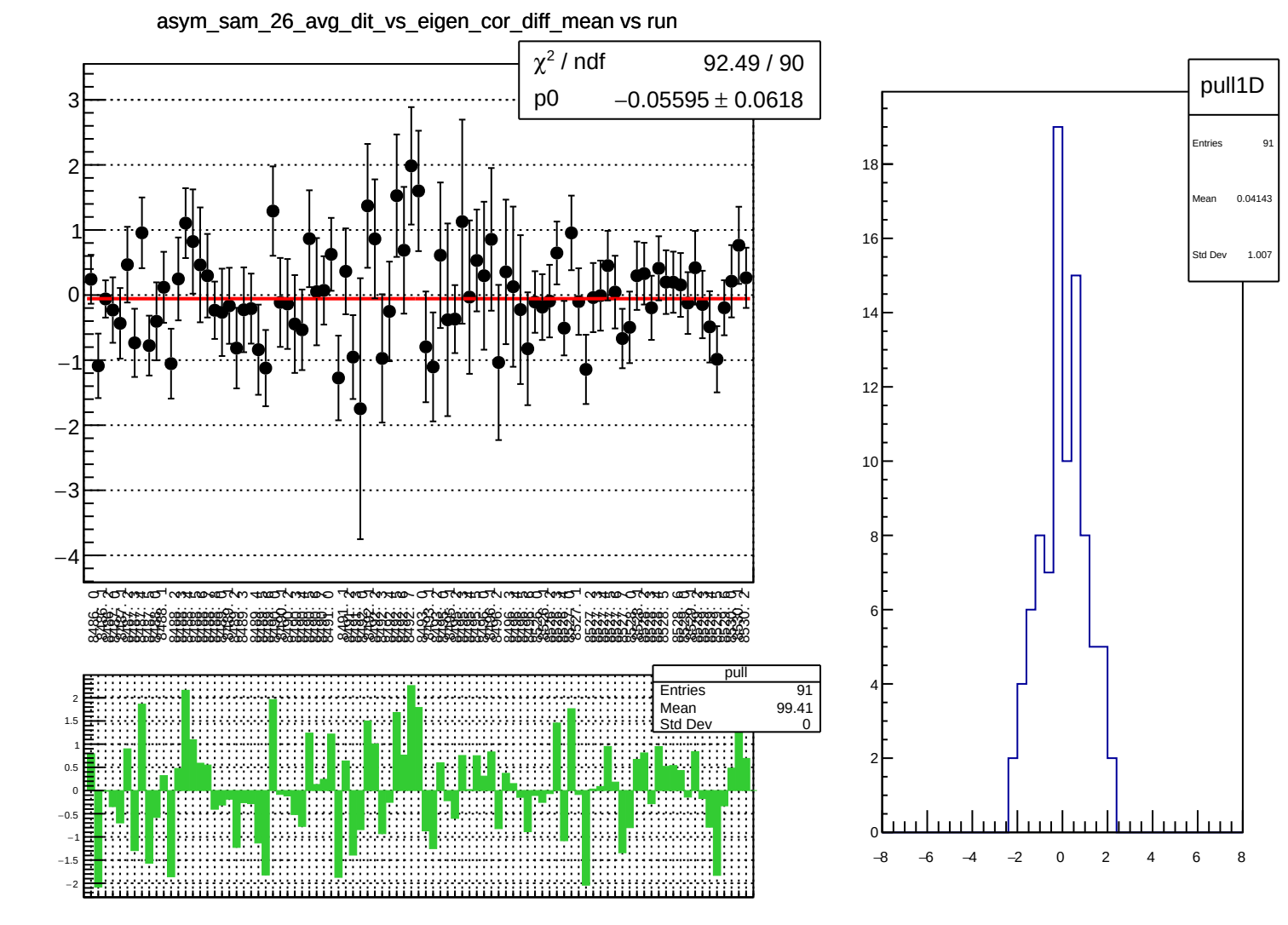

asym_sam_26_avg_rms vs run
χ² / ndf 3372 / 90
p0 1094 ± 0.8277
1300
1250
1200
1150
1100
1050
1000
950

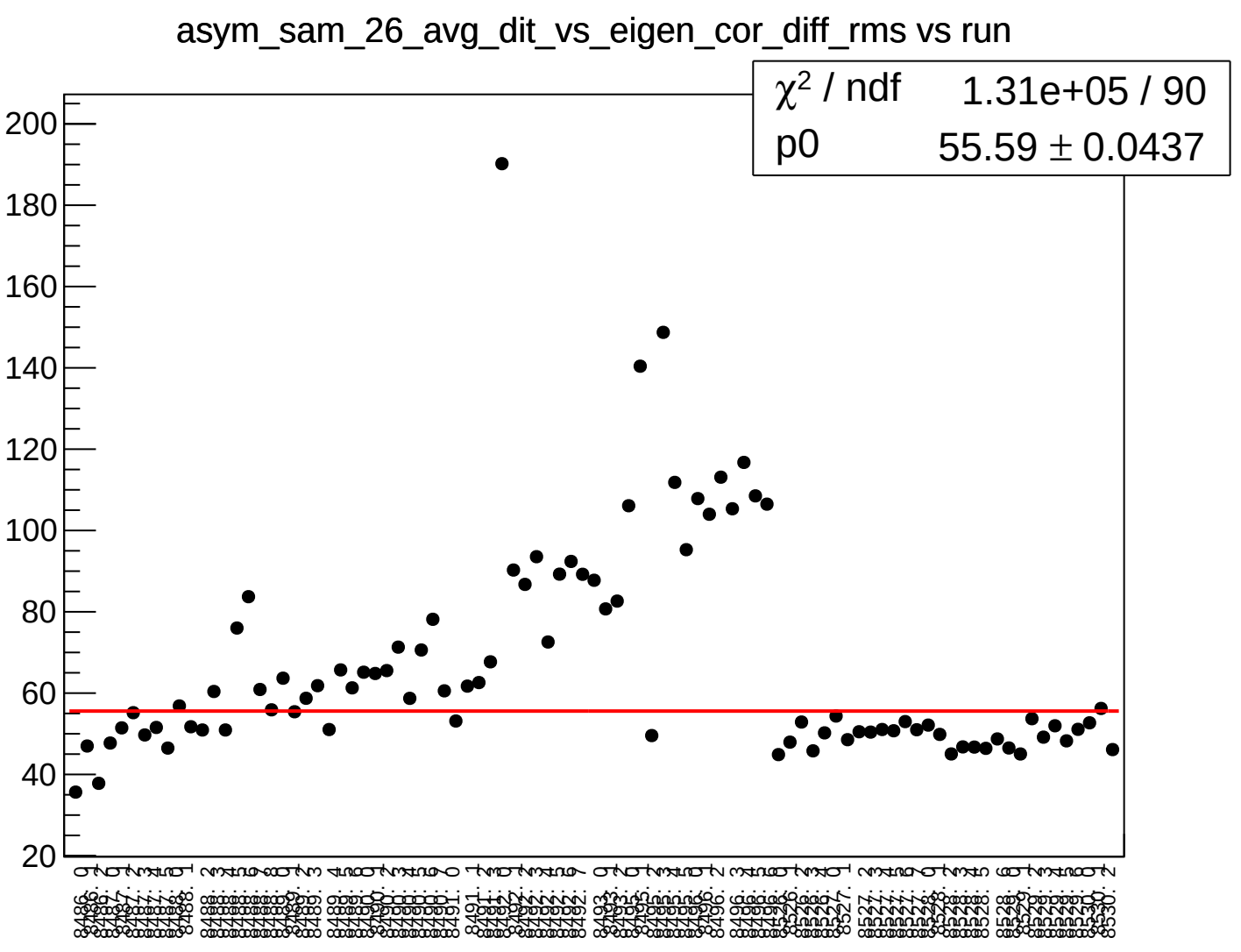

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 74.59 / 90
p0 −1.344e−13 ± 1.109e−13
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 91
Mean 225.6
Std Dev 0
pull1D
Entries 91
Mean −0.00915
Std Dev 0.9053

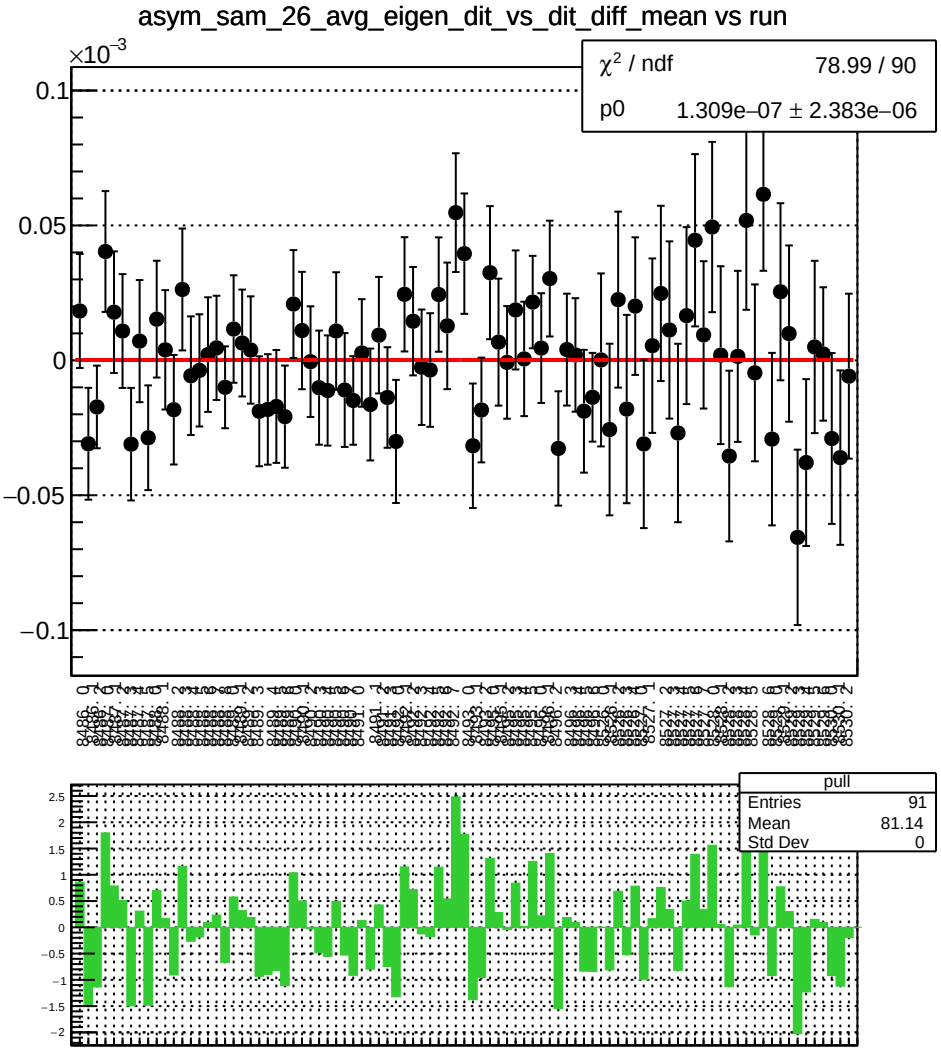

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.012e+06 / 90
p0 6.733e−11 ± 7.842e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

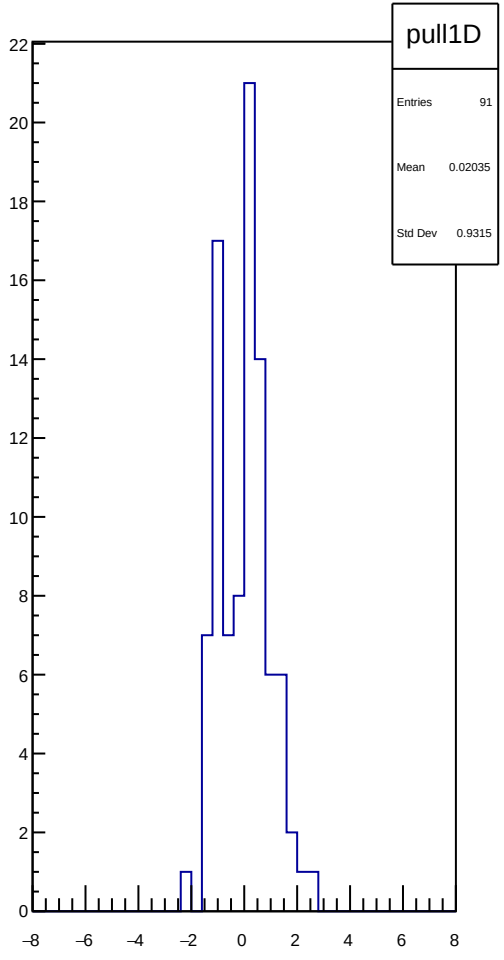

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 92.49 / 90
p0 −0.05595 ± 0.0618
pull
Entries 91
Mean 99.41
Std Dev 0
pull1D
Entries 91
Mean 0.04143
Std Dev 1.007

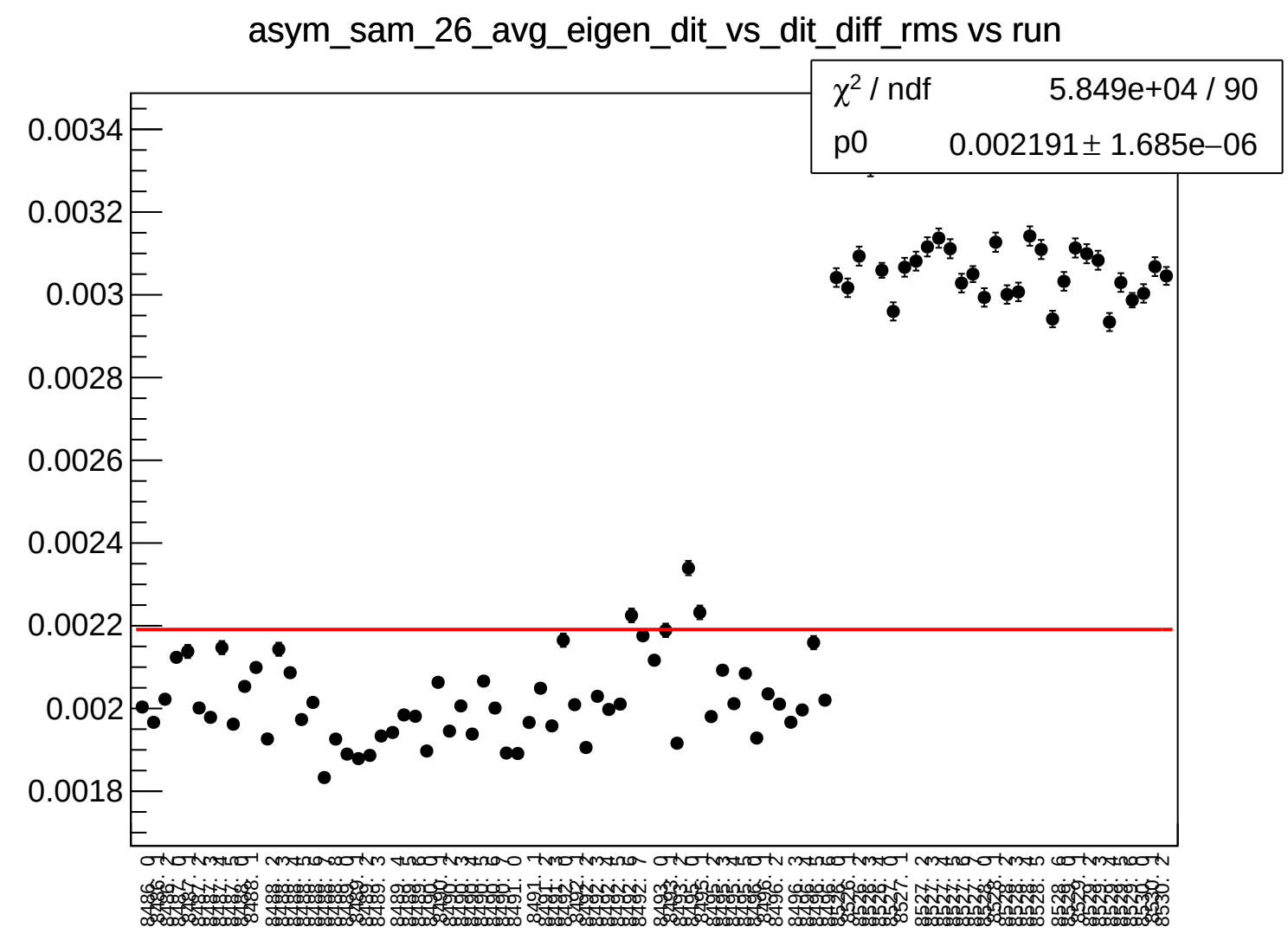

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.31e+05 / 90
p0 55.59 ± 0.0437
200
180
160
140
120
100
80
60
40
20

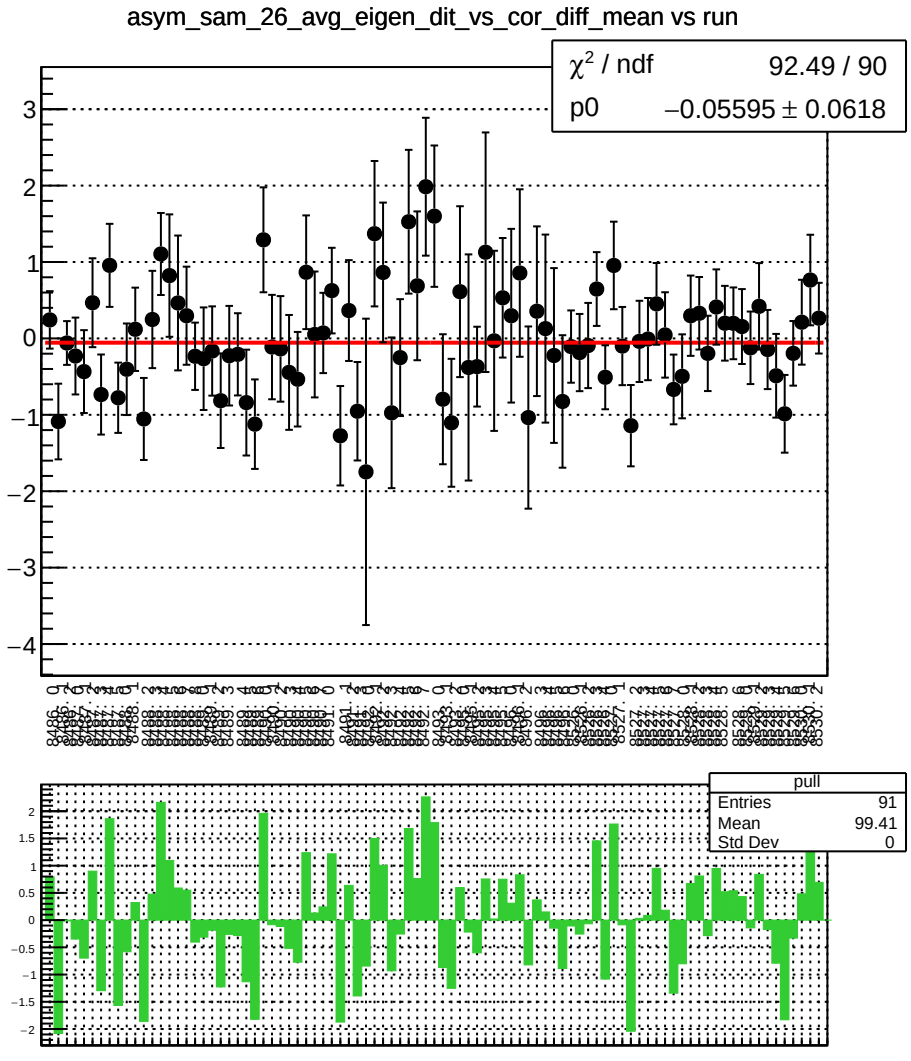

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.49 / 90
p0 −0.05595 ± 0.0618
pull
Entries 91
Mean 99.41
Std Dev 0
pull1D
Entries 91
Mean 0.04143
Std Dev 1.007

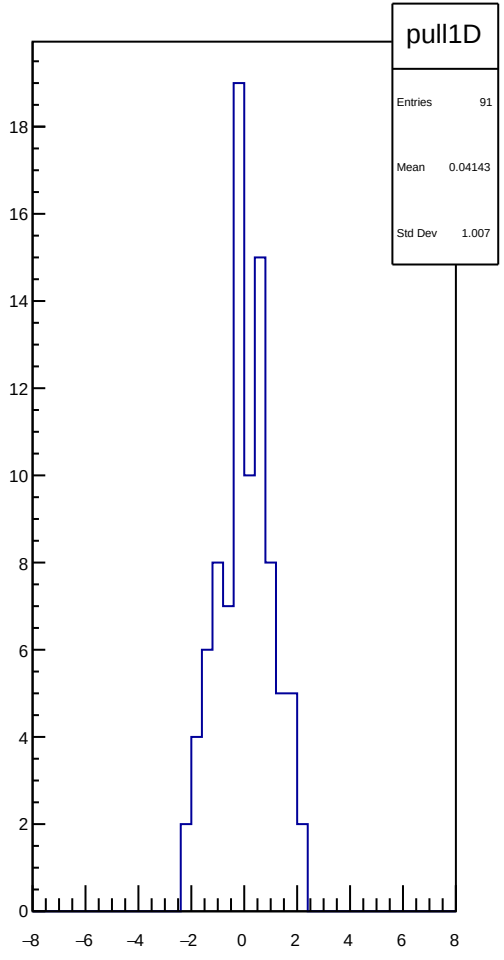

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.31e+05 / 90
p0 55.59 ± 0.0437
200
180
160
140
120
100
80
60
40
20

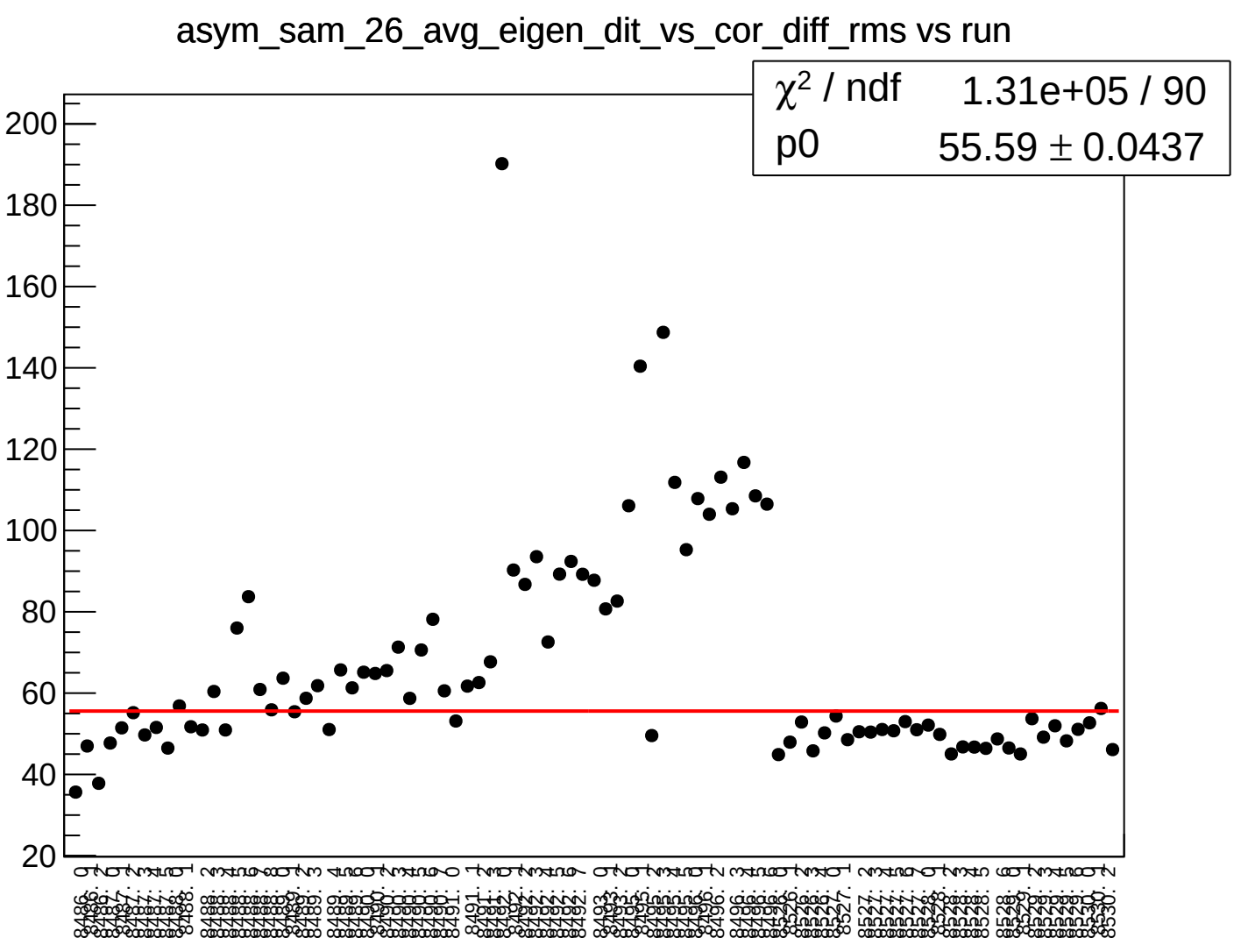

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.99 / 90
p0 1.309e−07 ± 2.383e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 91
Mean 81.14
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

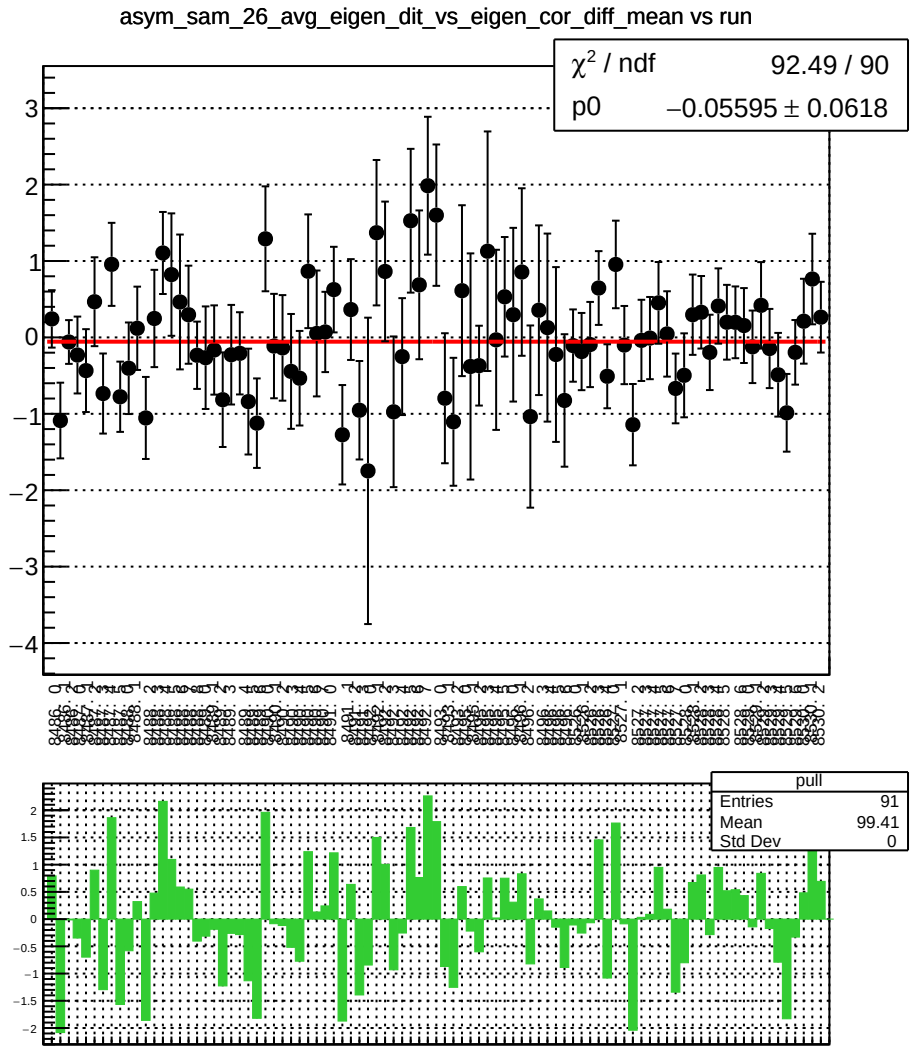

pull1D
Entries 91
Mean 0.02035
Std Dev 0.9315
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

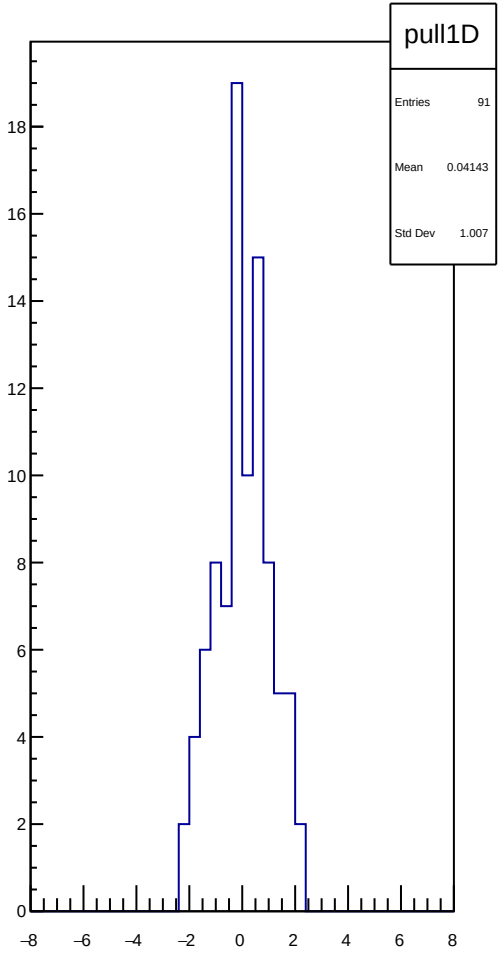

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ2 / ndf 5.849e+04 / 90
p0 0.002191 ± 1.685e−06
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

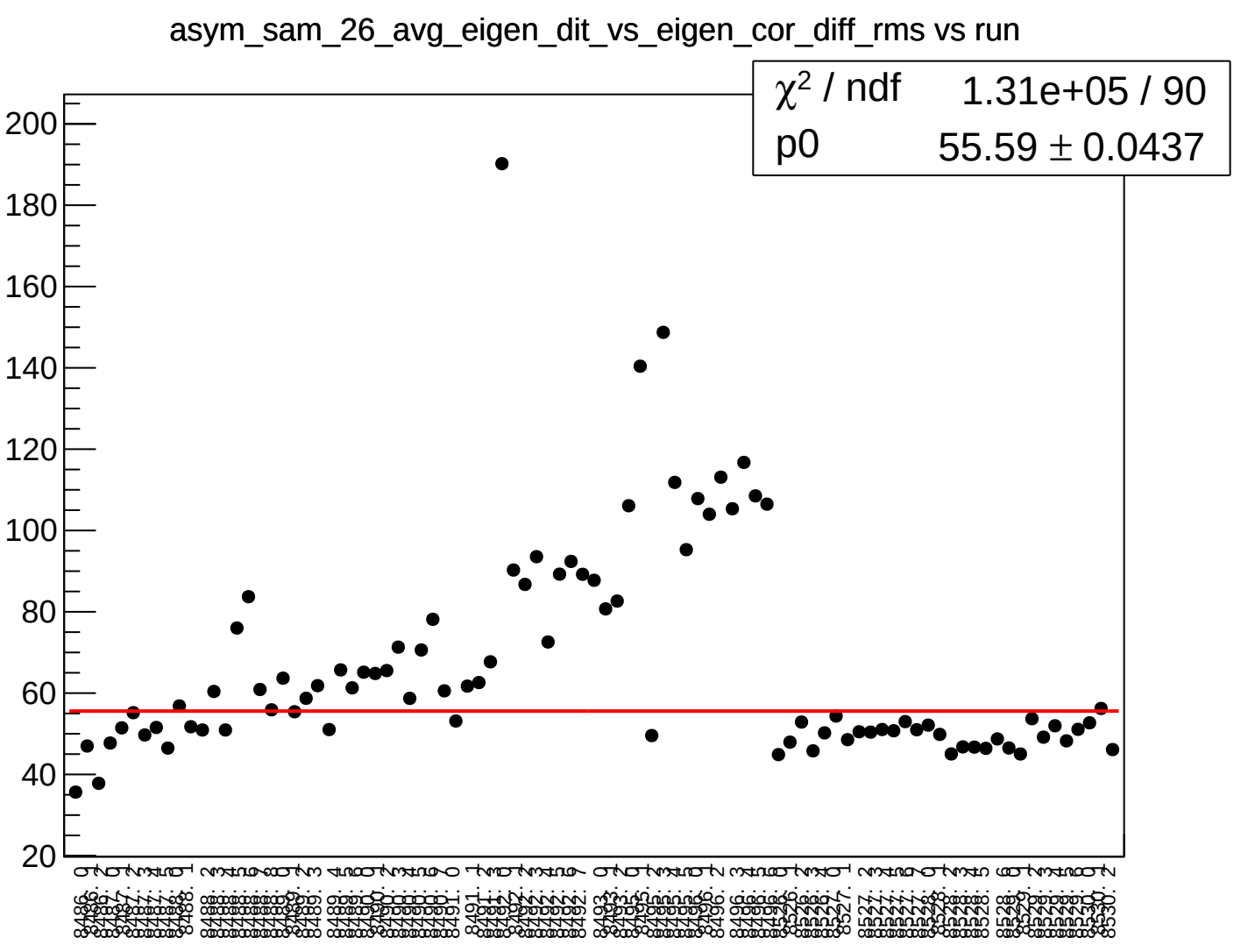

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.49 / 90
p0 −0.05595 ± 0.0618
pull
Entries 91
Mean 99.41
Std Dev 0

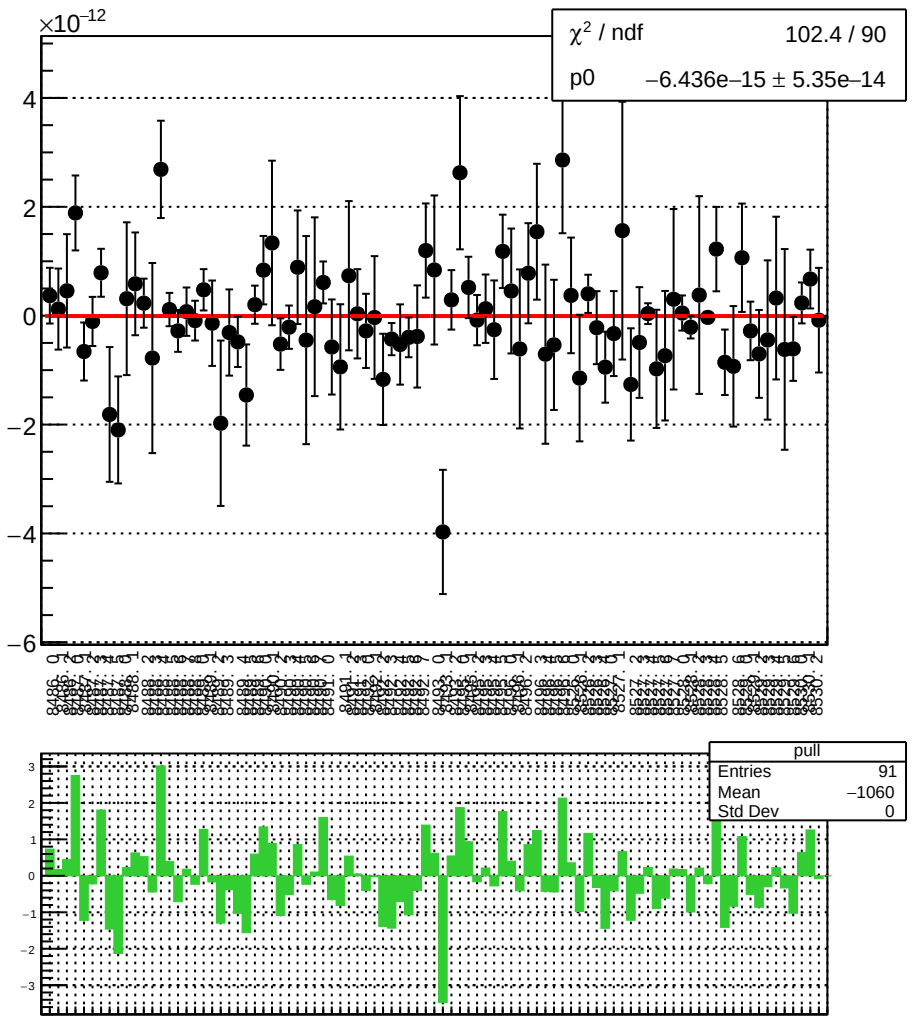

pull1D
Entries 91
Mean 0.04143
Std Dev 1.007

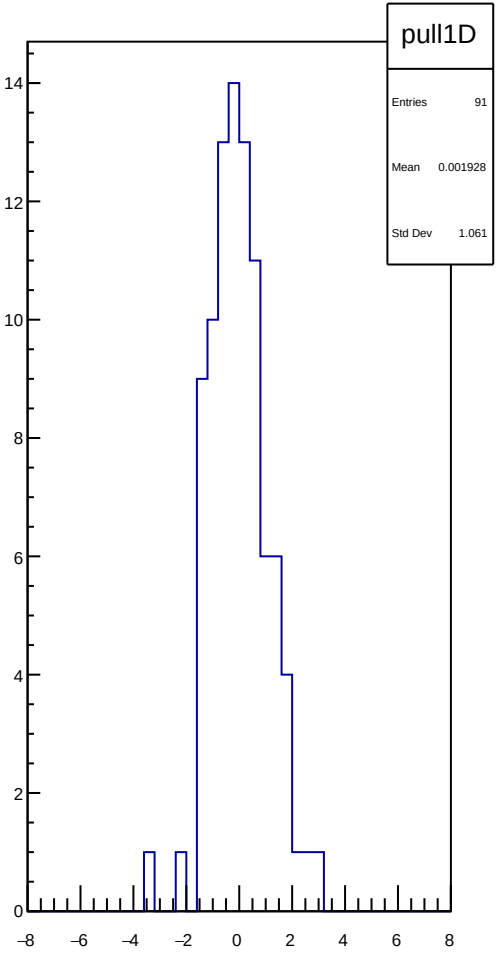

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.31e+05 / 90
p0 55.59 ± 0.0437
200
180
160
140
120
100
80
60
40
20

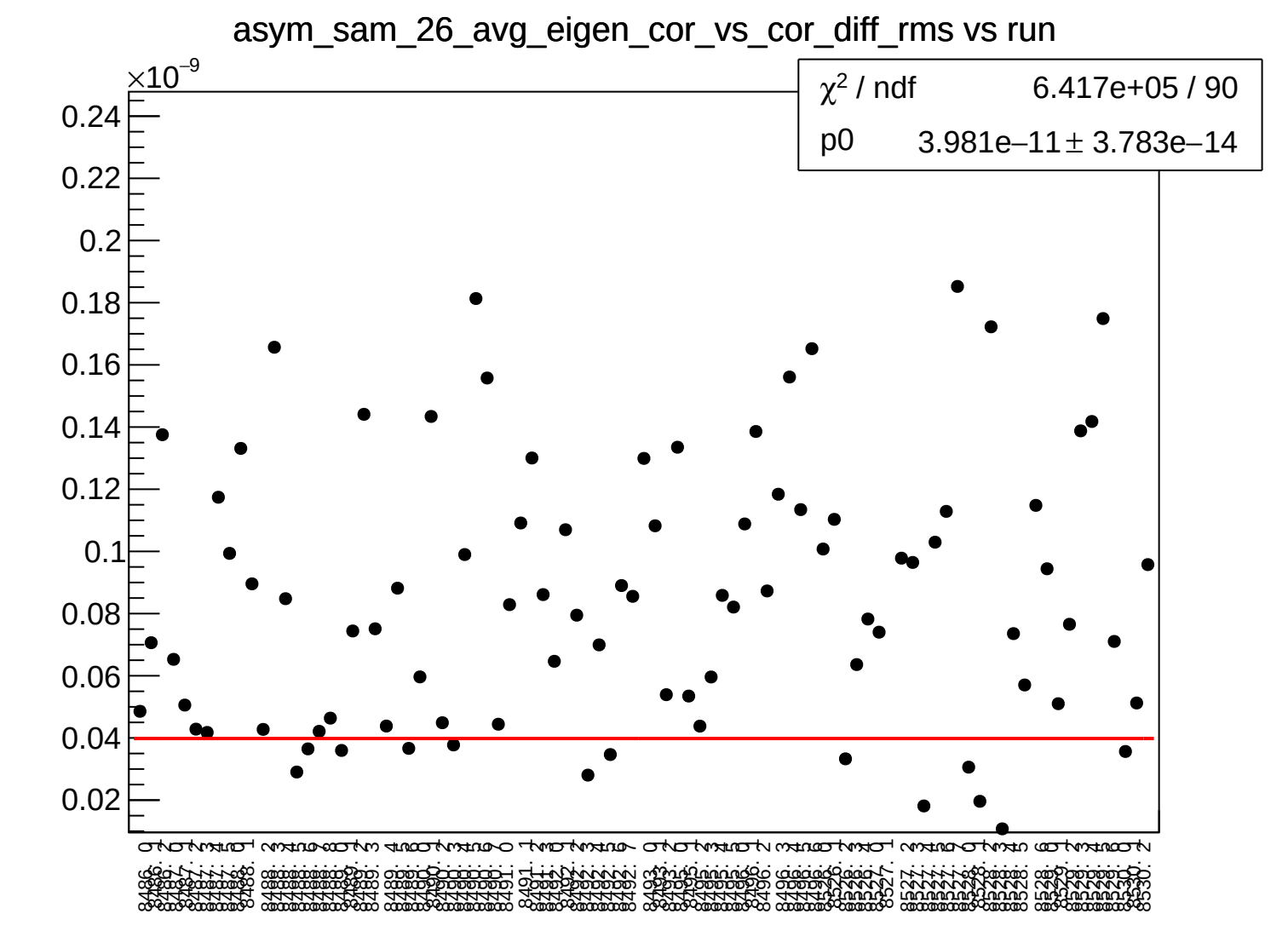

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.49 / 90
p0 −0.05595 ± 0.0618
pull
Entries 91
Mean 99.41
Std Dev 0

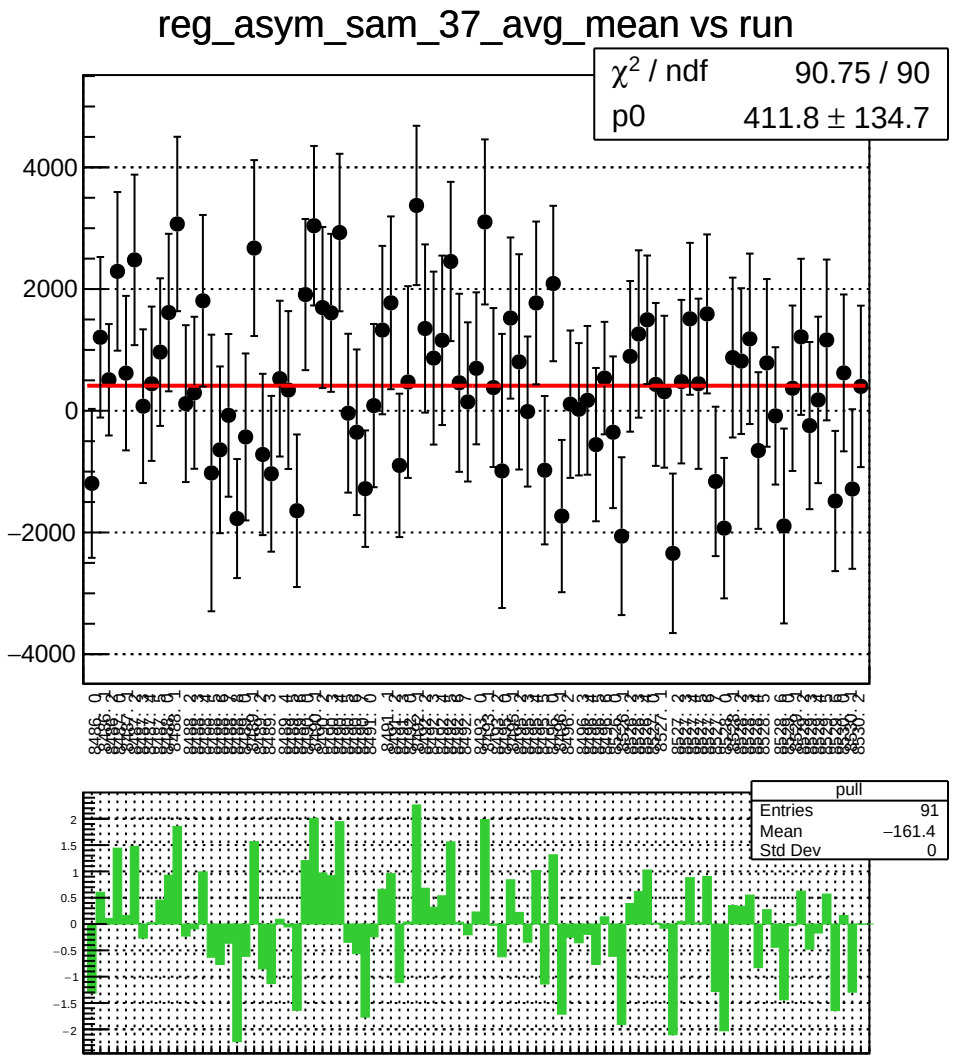

pull1D
Entries 91
Mean 0.04143
Std Dev 1.007

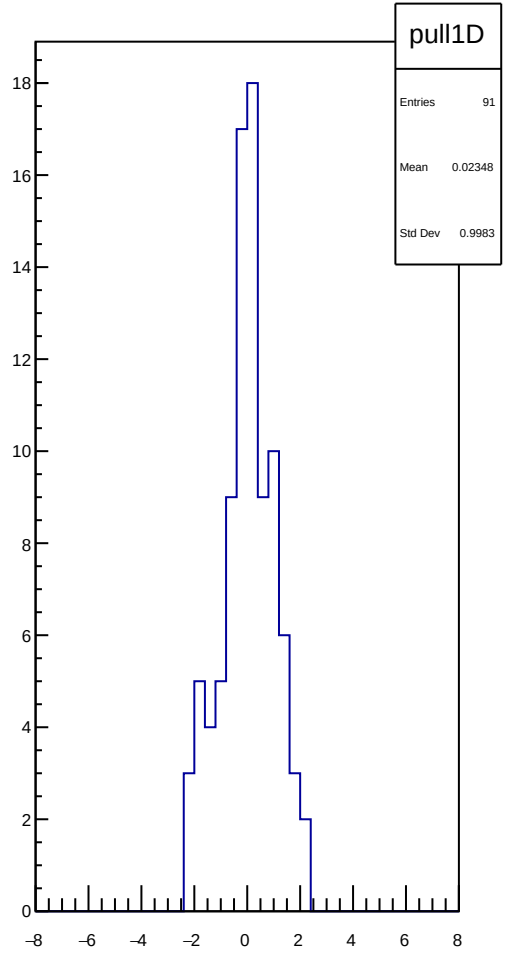

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.31e+05 / 90
p0 55.59 ± 0.0437
200
180
160
140
120
100
80
60
40
20

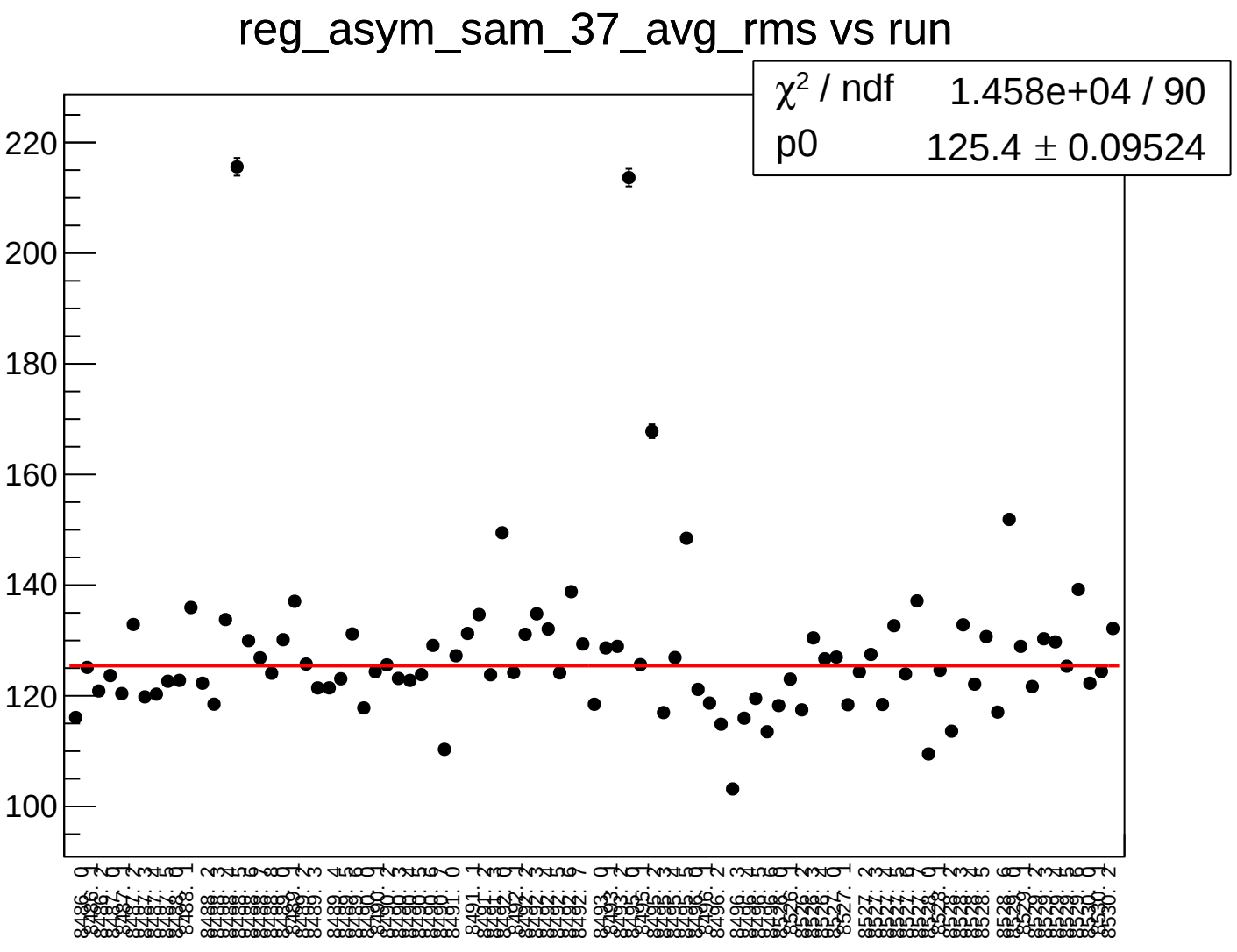

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 102.4 / 90
p0 −6.436e−15 ± 5.35e−14
pull
Entries 91
Mean −1060
Std Dev 0

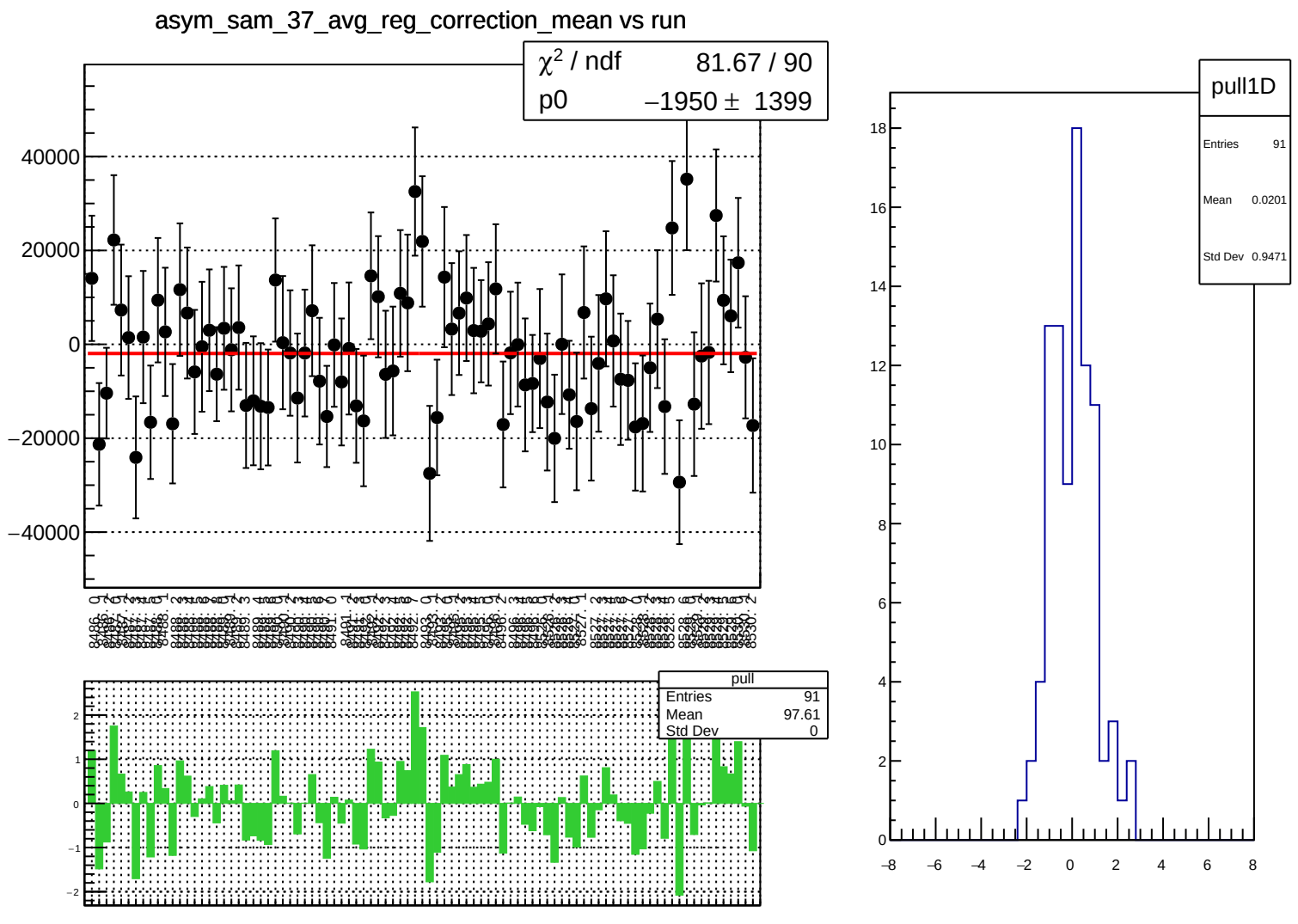

pull1D
Entries 91
Mean 0.001928
Std Dev 1.061

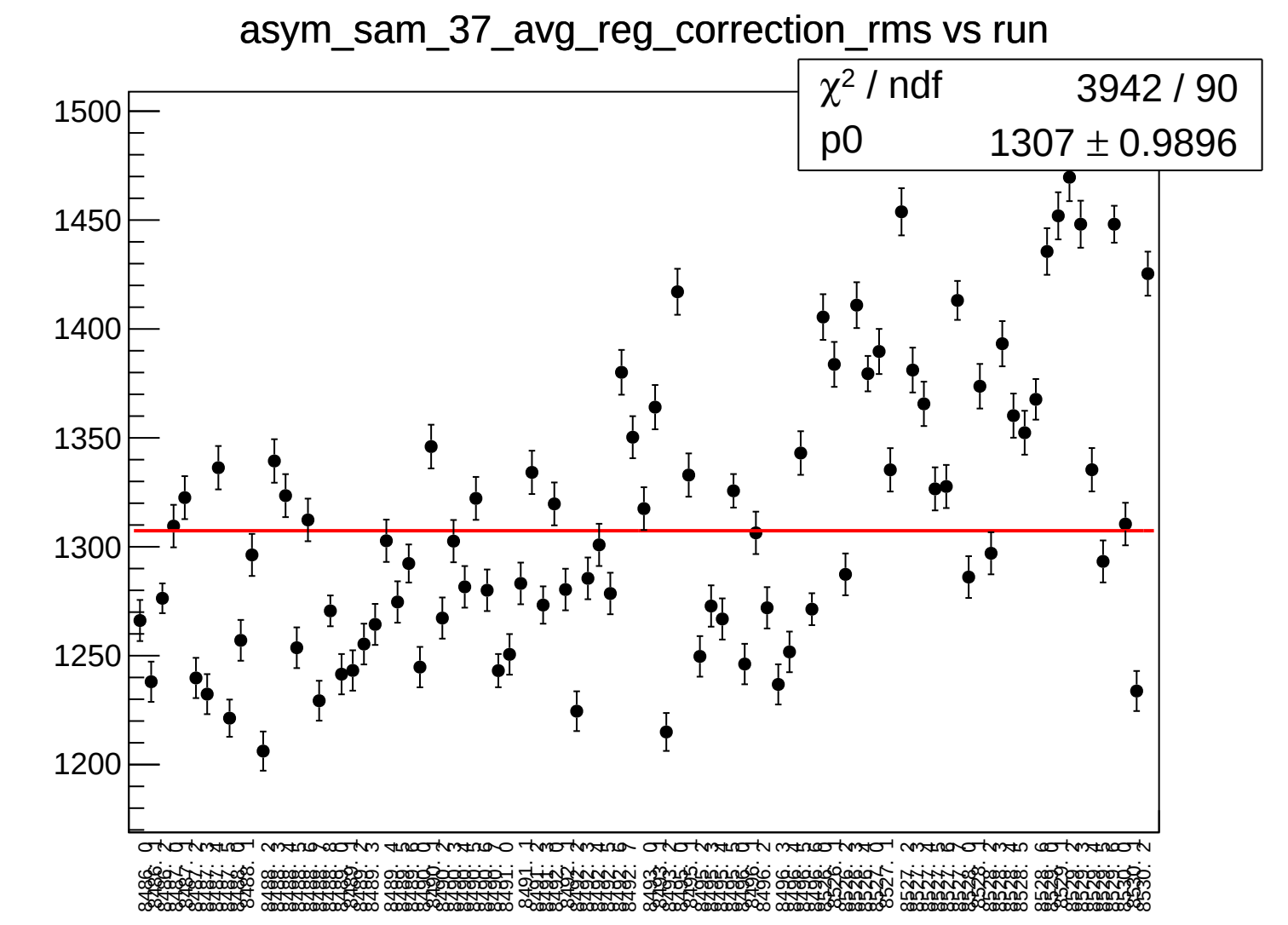

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.417e+05 / 90
p0 3.981e−11 ± 3.783e−14
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

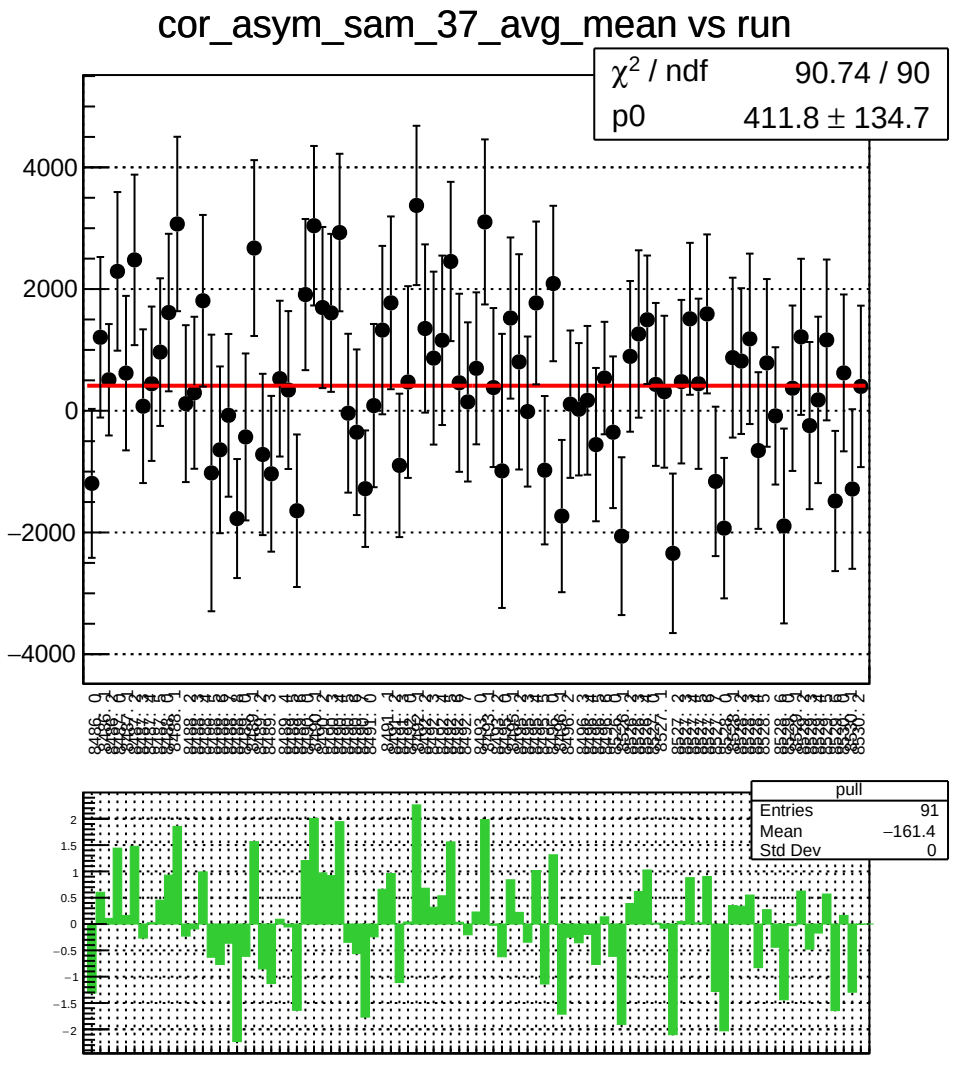

reg_asym_sam_37_avg_mean vs run
χ² / ndf 90.75 / 90
p0 411.8 ± 134.7
4000
2000
0
−2000
−4000
pull
Entries 91
Mean −161.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

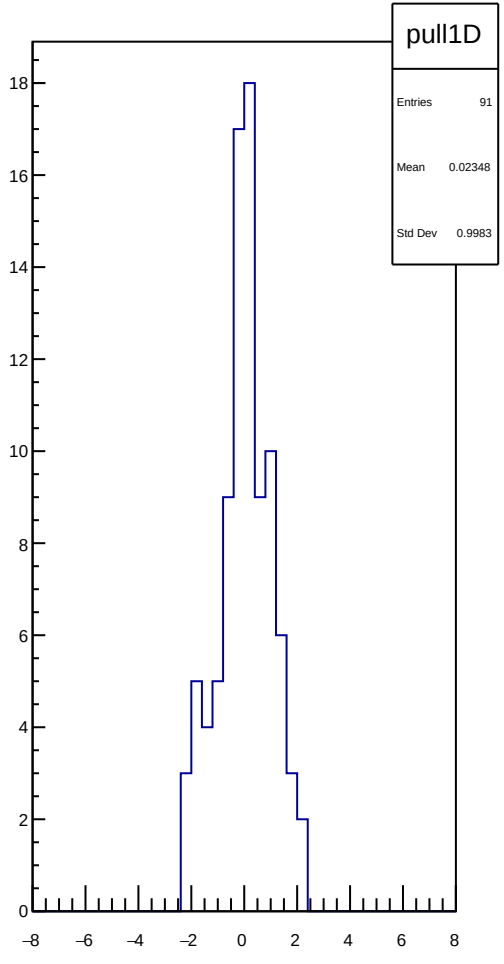

pull1D
Entries 91
Mean 0.02348
Std Dev 0.9983
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

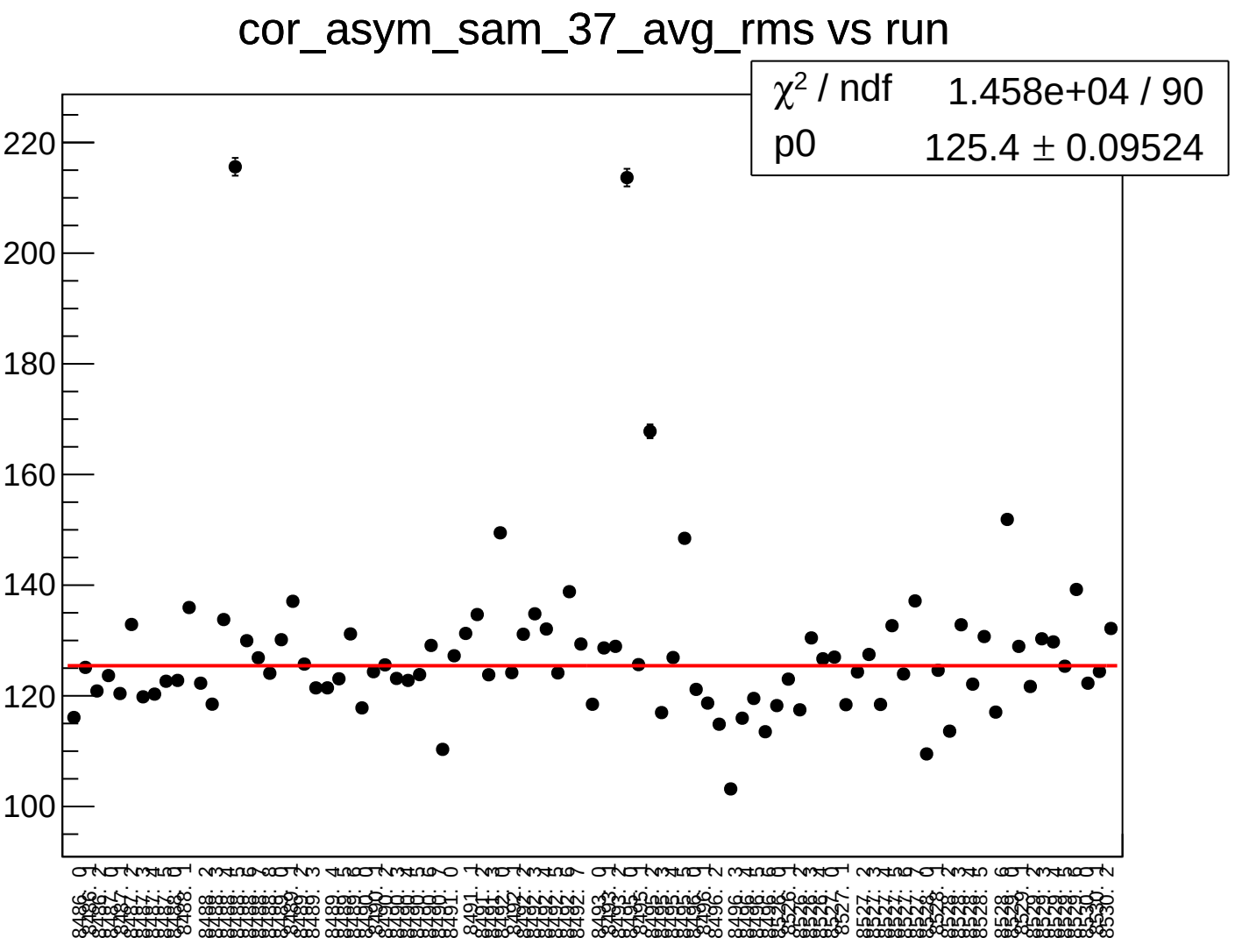

reg_asym_sam_37_avg_rms vs run
χ^2 / ndf 1.458e+04 / 90
p0 125.4 ± 0.09524
220
200
180
160
140
120
100

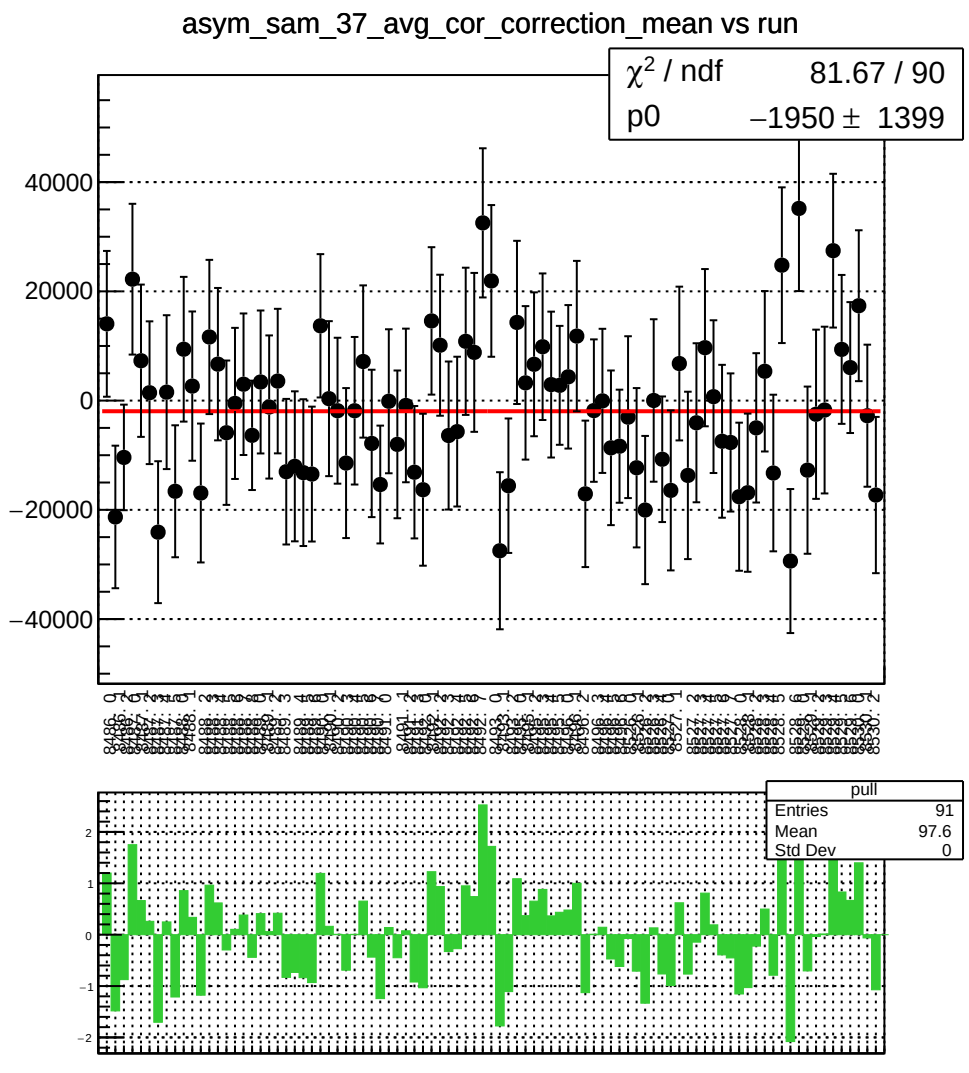

asym_sam_37_avg_reg_correction_mean vs run
χ² / ndf 81.67 / 90
p0 −1950 ± 1399
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 97.61
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.0201
Std Dev 0.9471
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

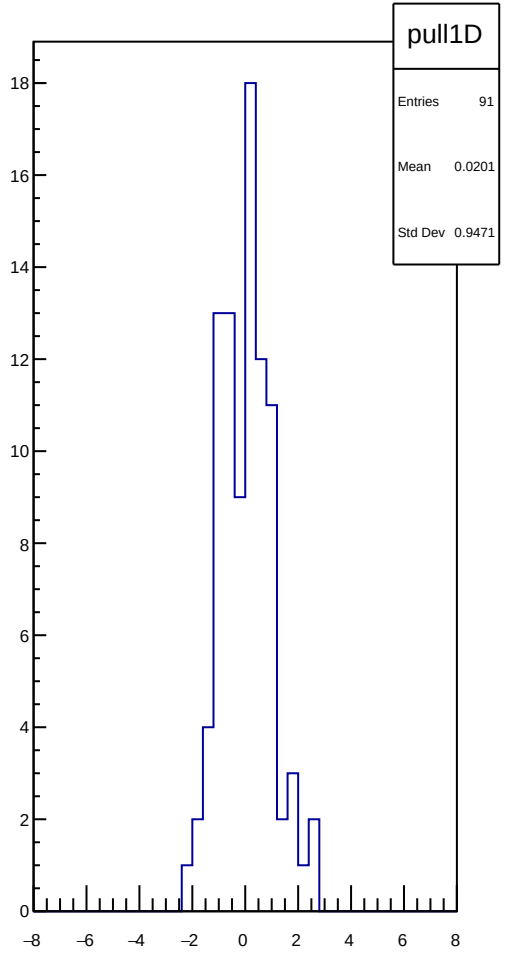

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 3942 / 90
p0 1307 ± 0.9896
1500
1450
1400
1350
1300
1250
1200

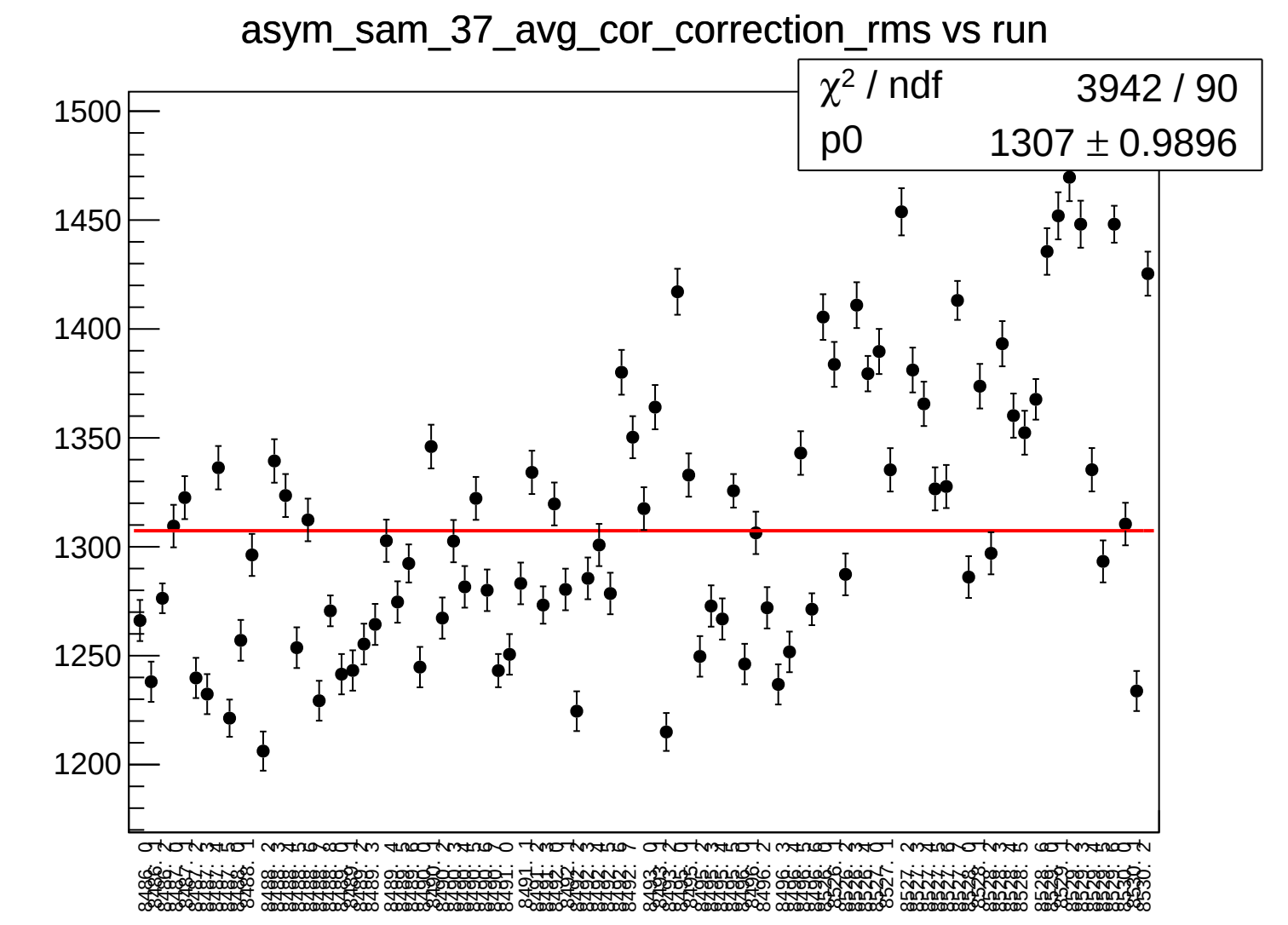

cor_asym_sam_37_avg_mean vs run
χ² / ndf 90.74 / 90
p0 411.8 ± 134.7
4000
2000
0
−2000
−4000
pull
Entries 91
Mean −161.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

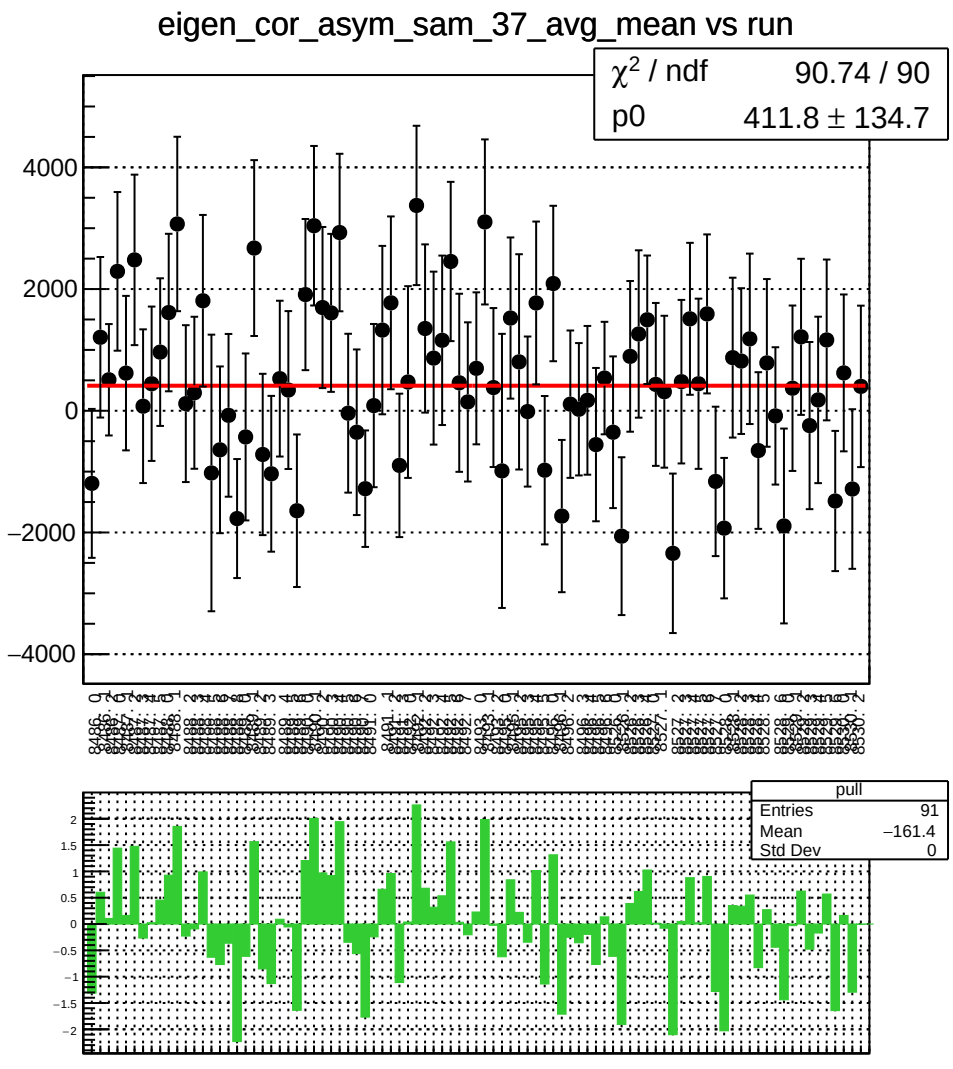

pull1D
Entries 91
Mean 0.02348
Std Dev 0.9983
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

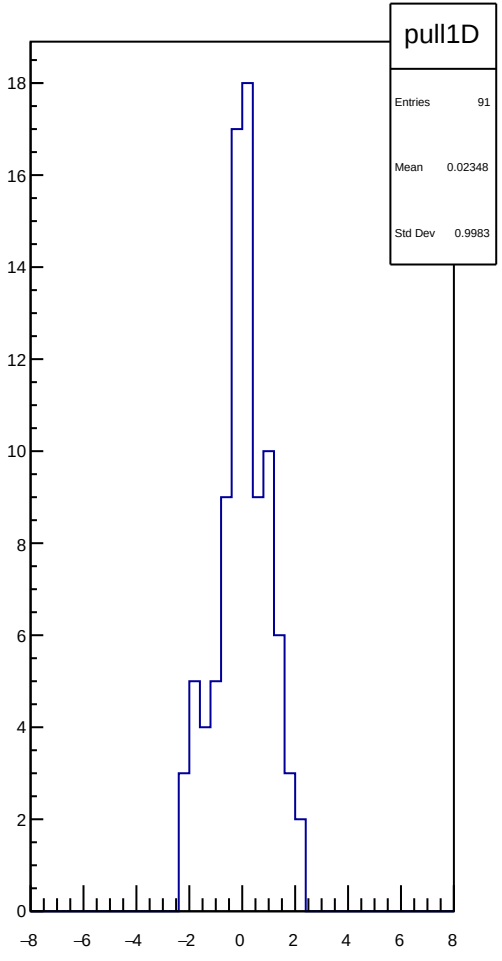

cor_asym_sam_37_avg_rms vs run
χ² / ndf 1.458e+04 / 90
p0 125.4 ± 0.09524
220
200
180
160
140
120
100

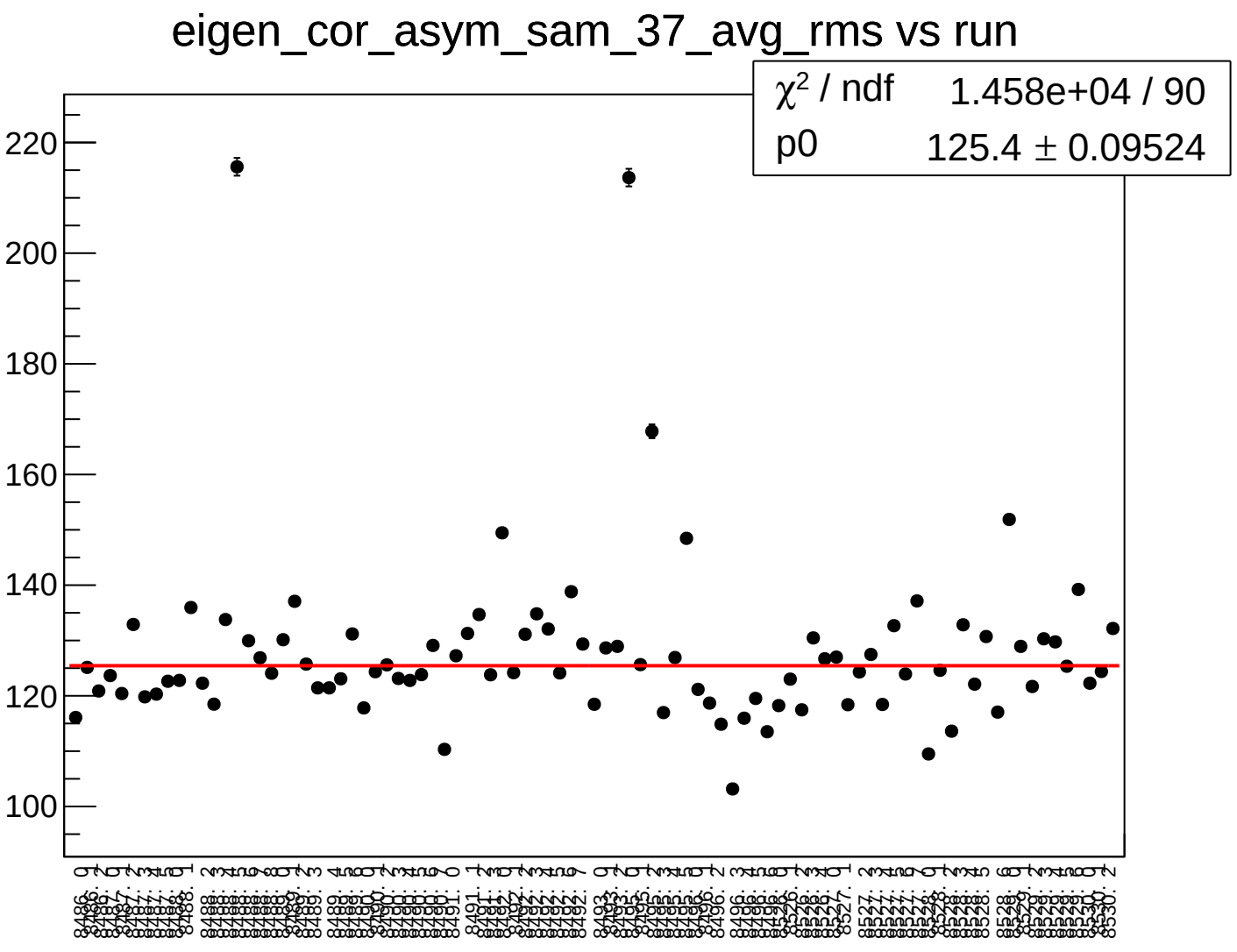

asym_sam_37_avg_cor_correction_mean vs run
χ² / ndf 81.67 / 90
p0 −1950 ± 1399
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 97.6
Std Dev 0
2
1
0
−1
−2

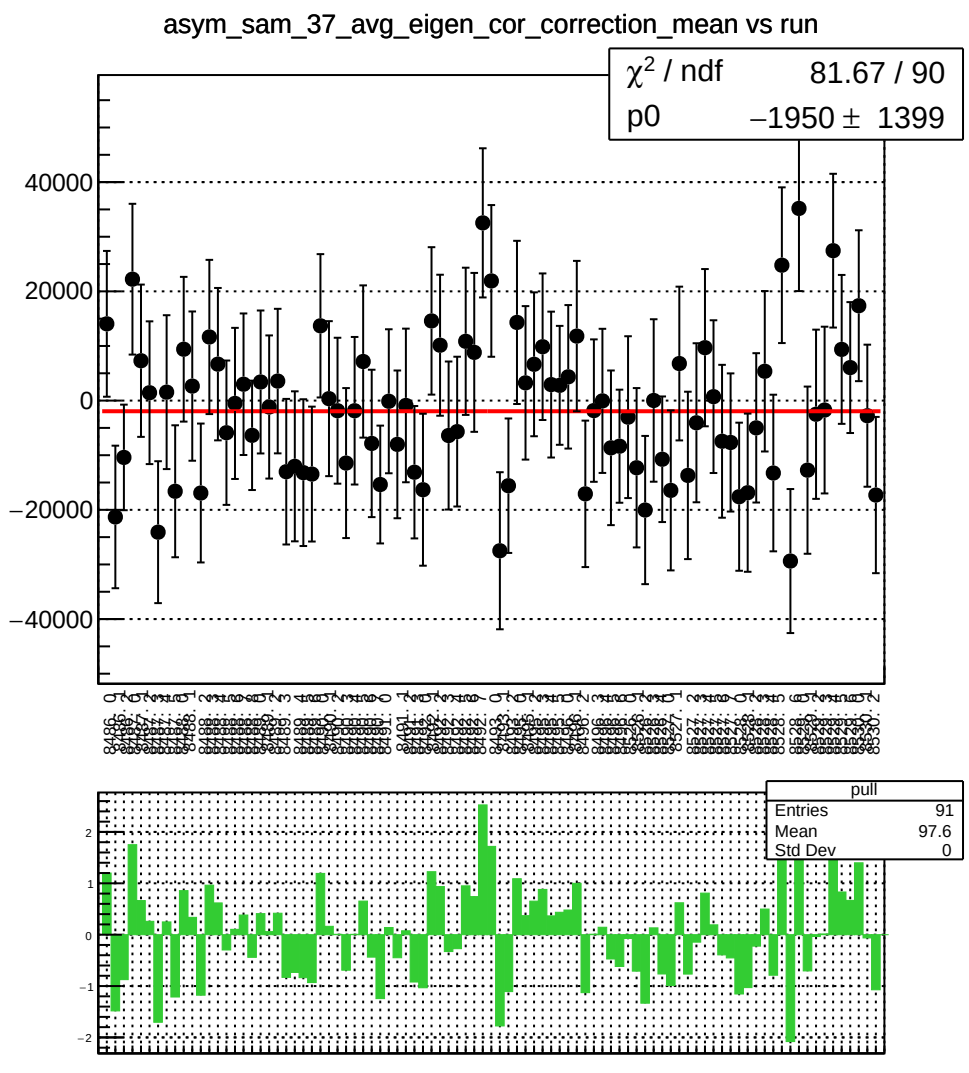

pull1D
Entries 91
Mean 0.0201
Std Dev 0.9471
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

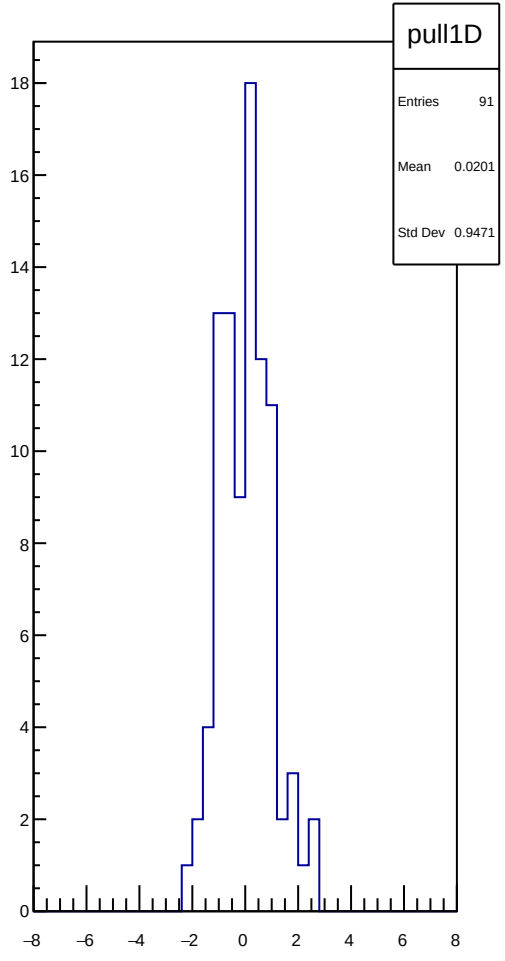

asym_sam_37_avg_cor_correction_rms vs run
χ² / ndf 3942 / 90
p0 1307 ± 0.9896
1500
1450
1400
1350
1300
1250
1200

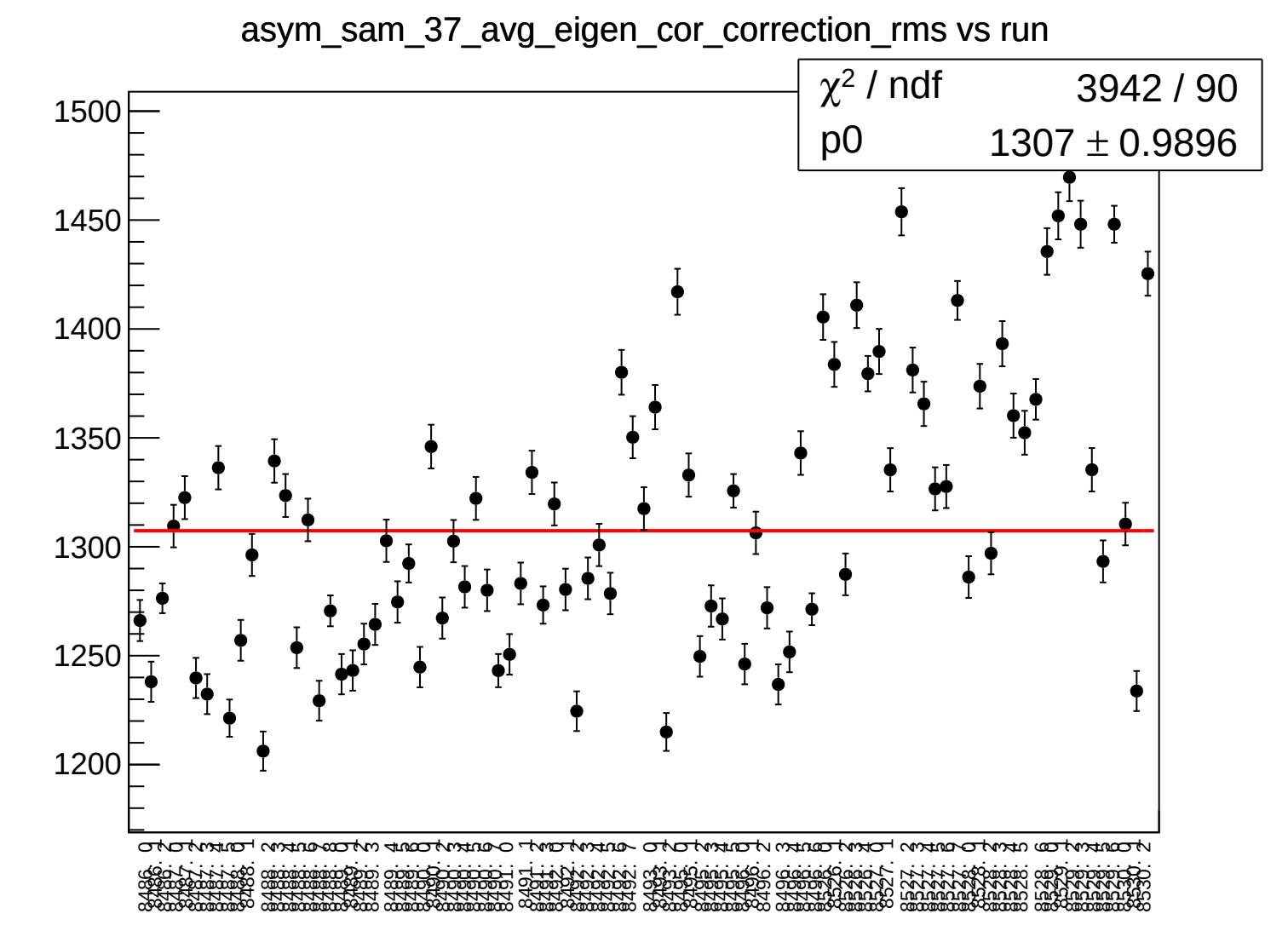

eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 90.74 / 90
p0 411.8 ± 134.7
4000
2000
0
−2000
−4000
pull
Entries 91
Mean −161.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

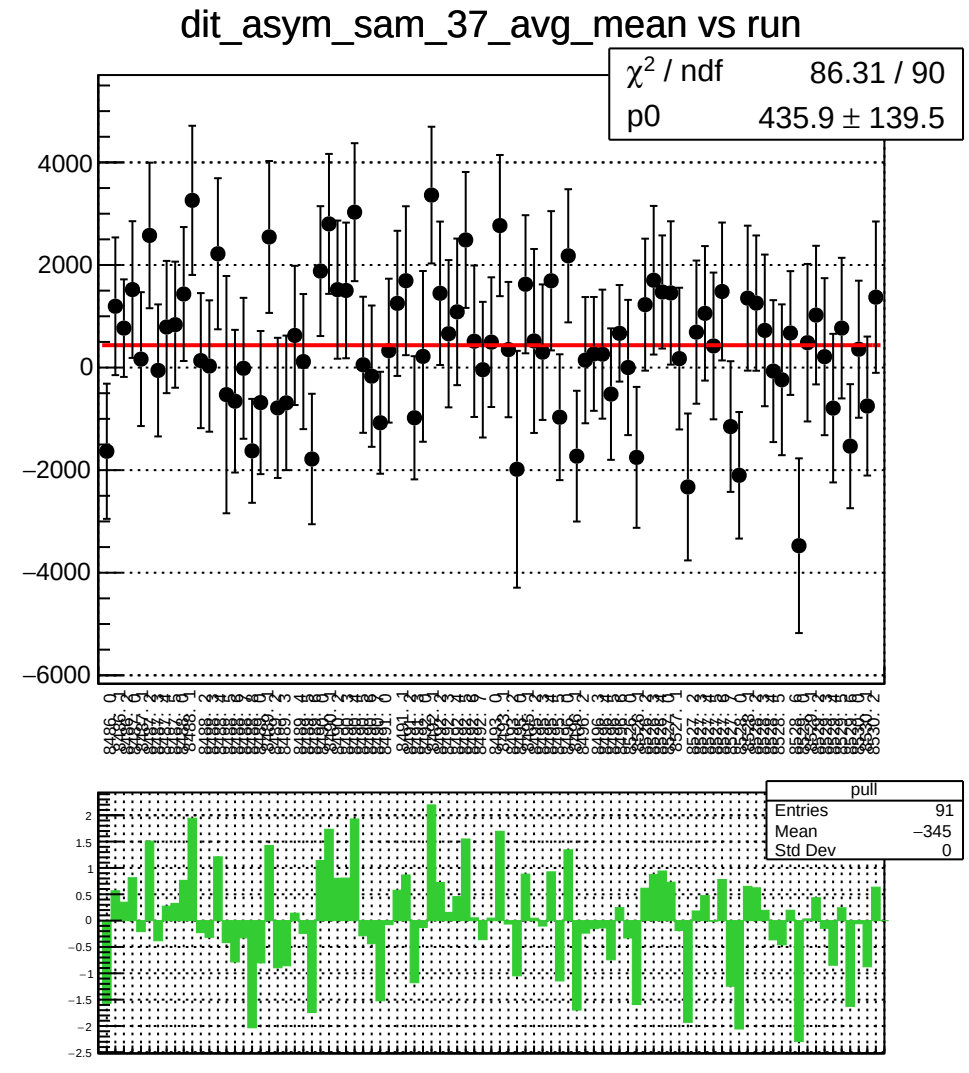

pull1D
Entries 91
Mean 0.02348
Std Dev 0.9983
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

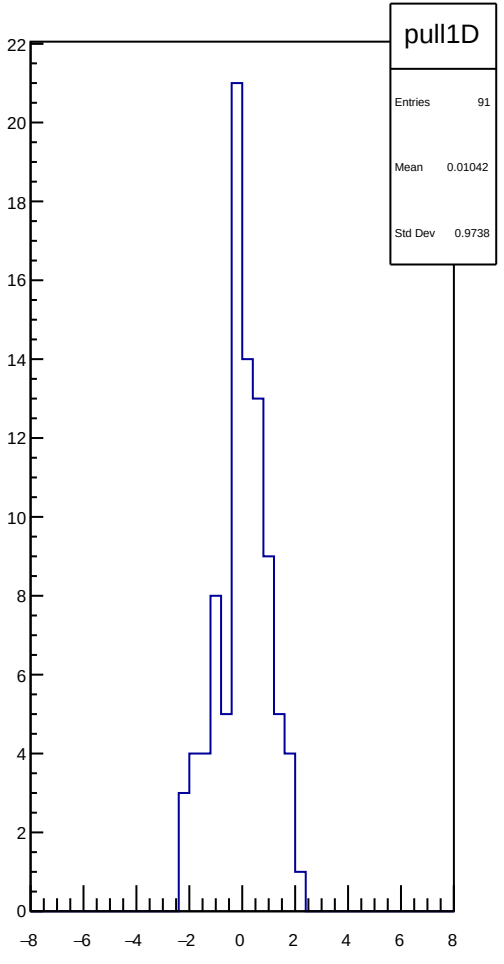

eigen_cor_asym_sam_37_avg_rms vs run
χ^2 / ndf 1.458e+04 / 90
p0 125.4 ± 0.09524
220
200
180
160
140
120
100

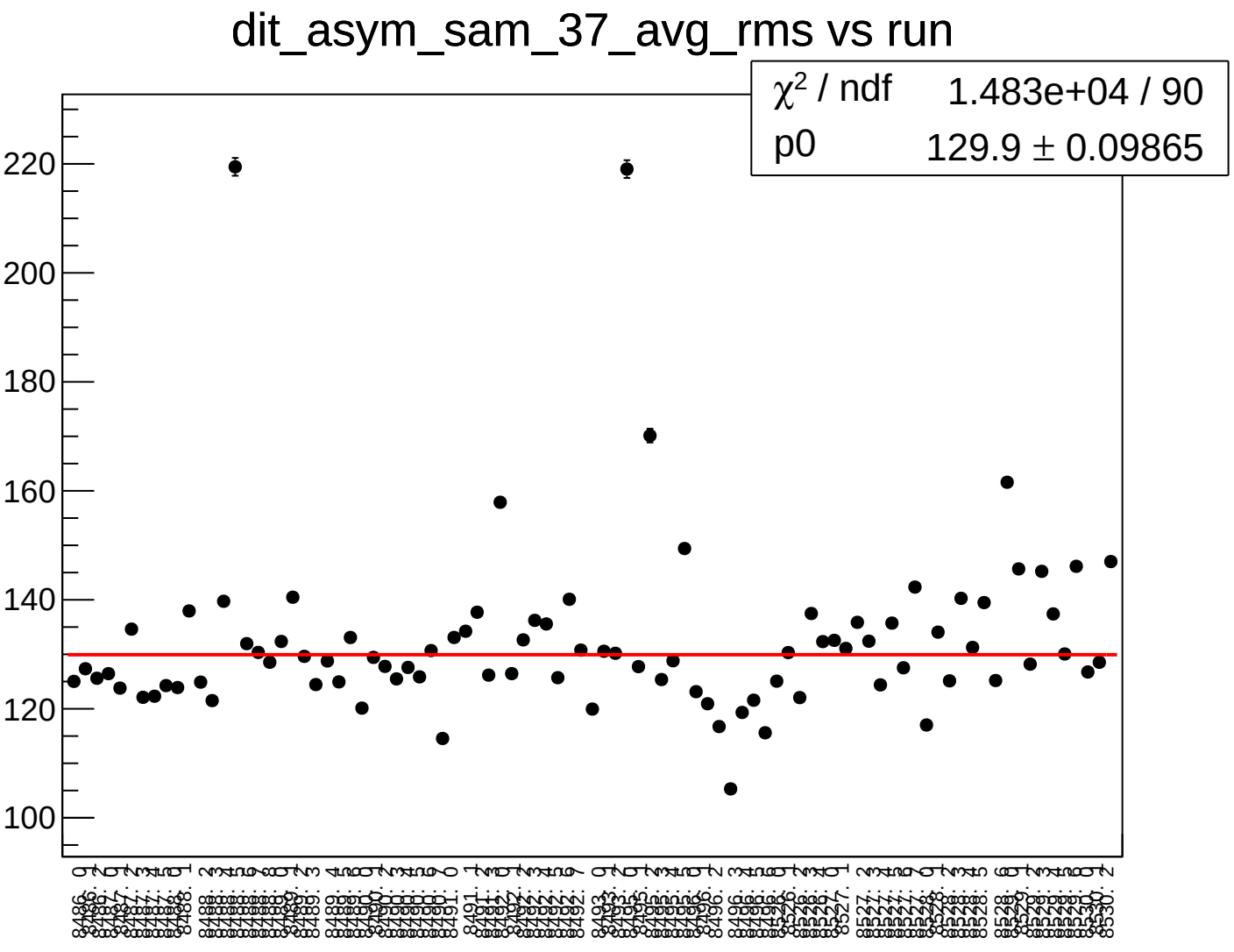

asym_sam_37_avg_eigen_cor_correction_mean vs run
χ² / ndf 81.67 / 90
p0 −1950 ± 1399
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 97.6
Std Dev 0
2
1
0
−1
−2

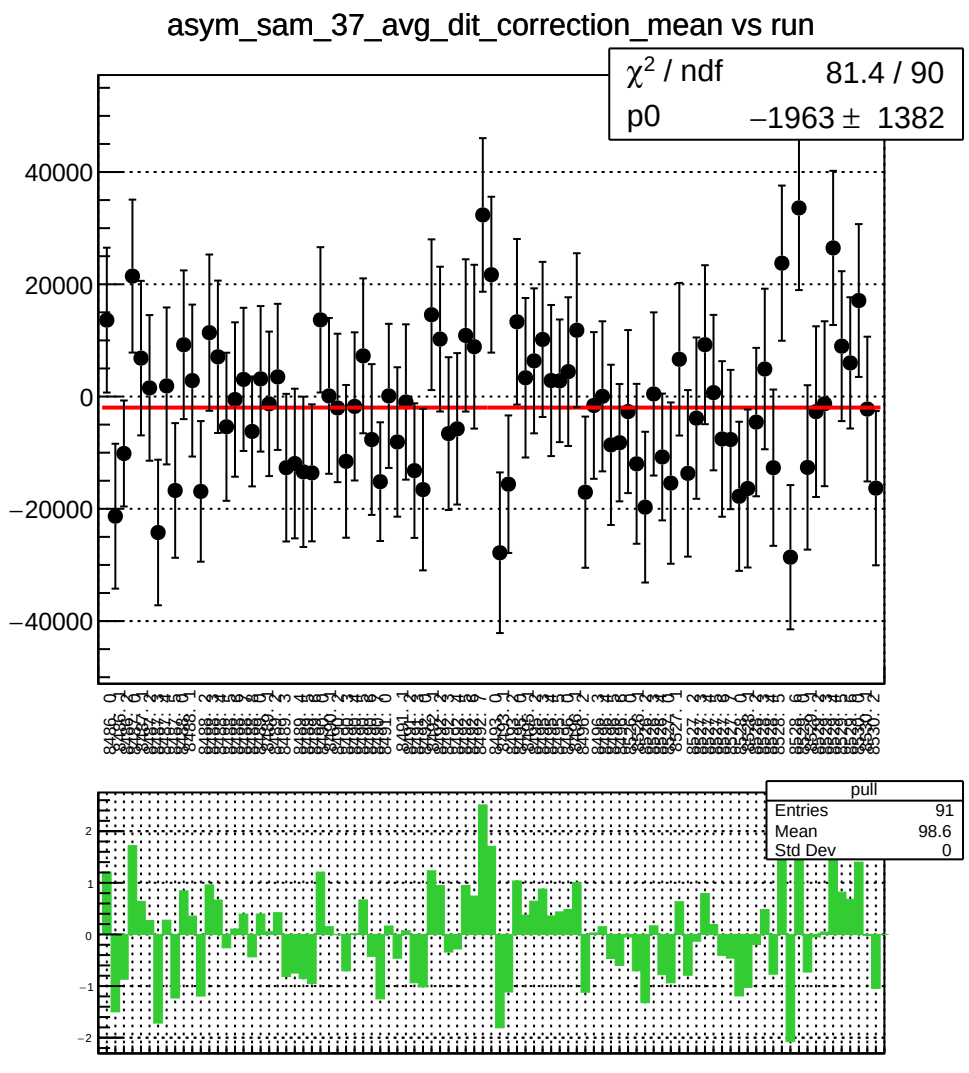

pull1D
Entries 91
Mean 0.0201
Std Dev 0.9471
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

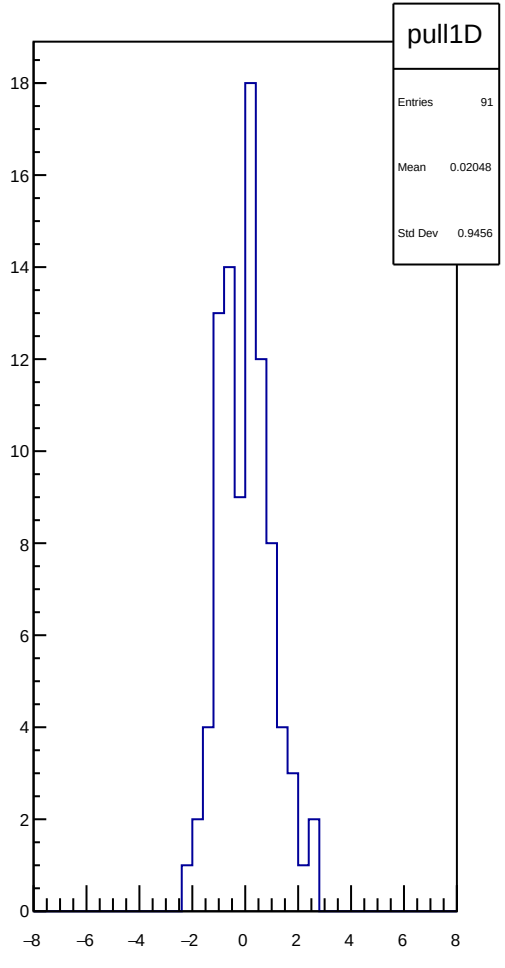

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 3942 / 90
p0 1307 ± 0.9896
1500
1450
1400
1350
1300
1250
1200

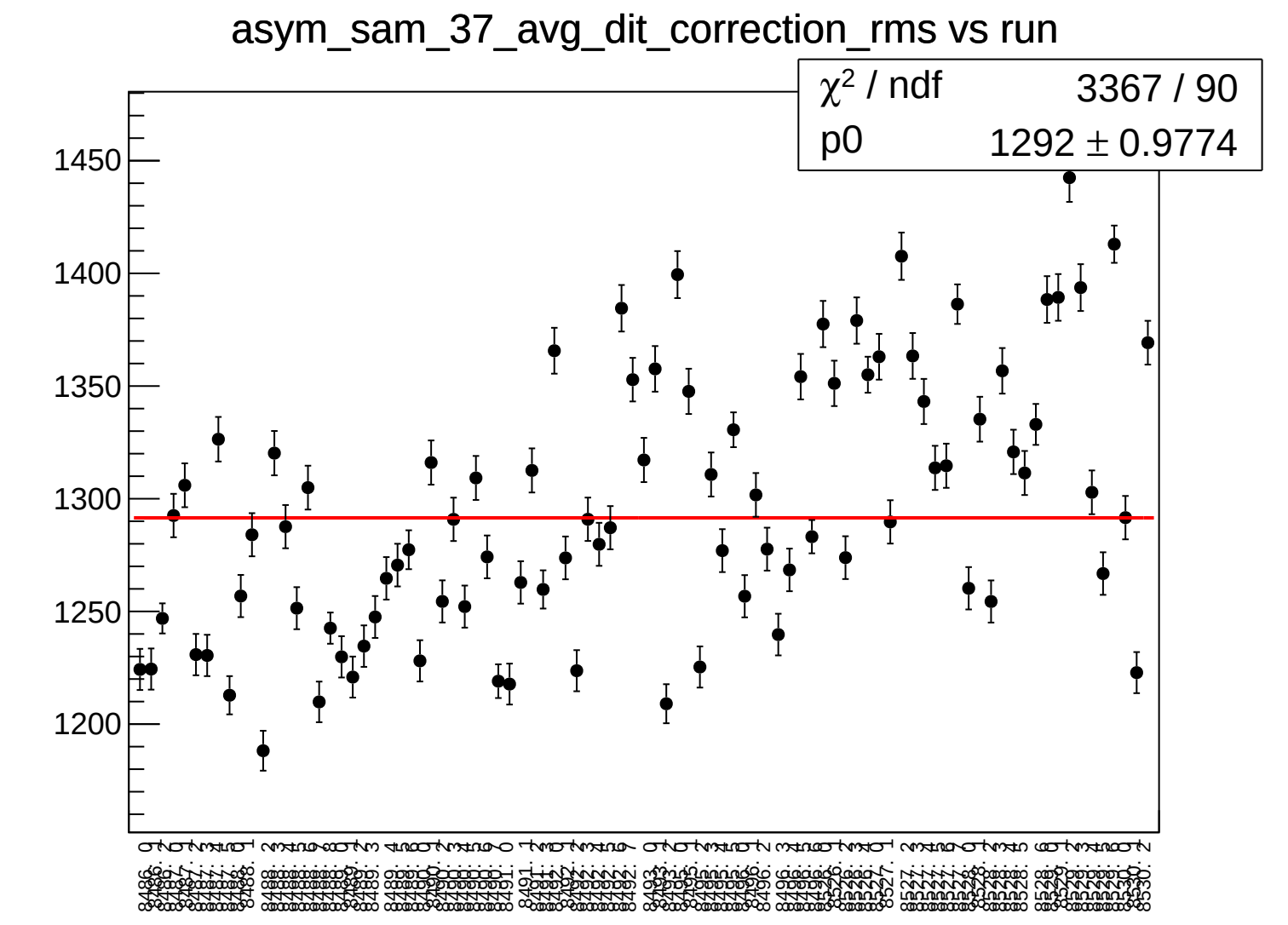

dit_asym_sam_37_avg_mean vs run
χ² / ndf 86.31 / 90
p0 435.9 ± 139.5
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean −345
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

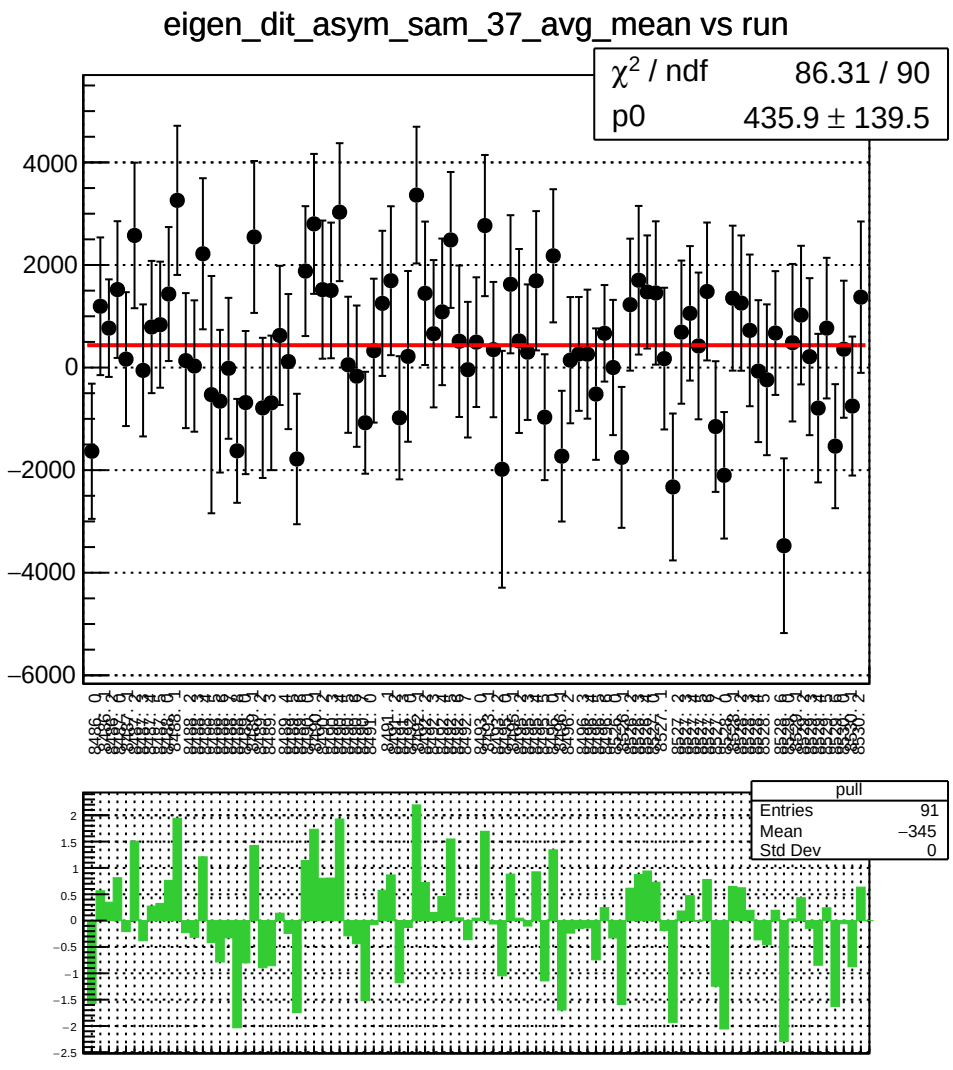

pull1D
Entries 91
Mean 0.01042
Std Dev 0.9738
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

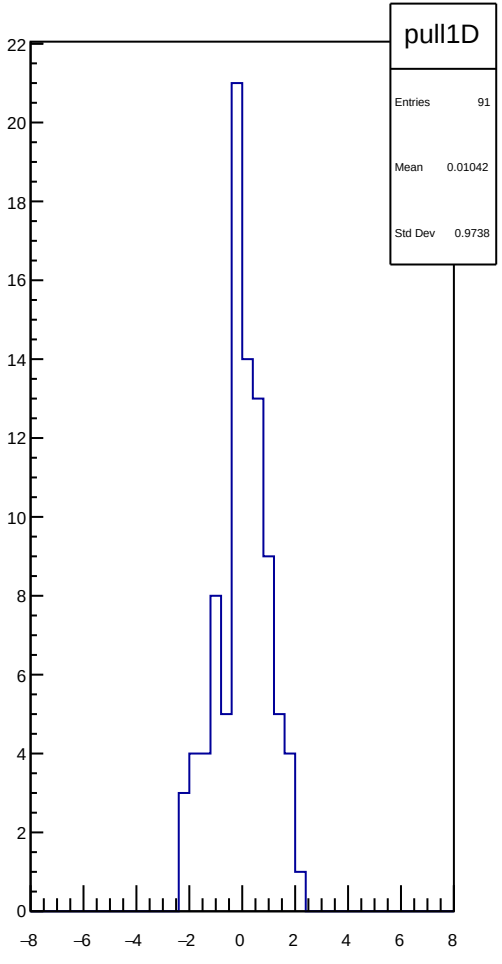

dit_asym_sam_37_avg_rms vs run
χ^2 / ndf 1.483e+04 / 90
p0 129.9 ± 0.09865
220
200
180
160
140
120
100

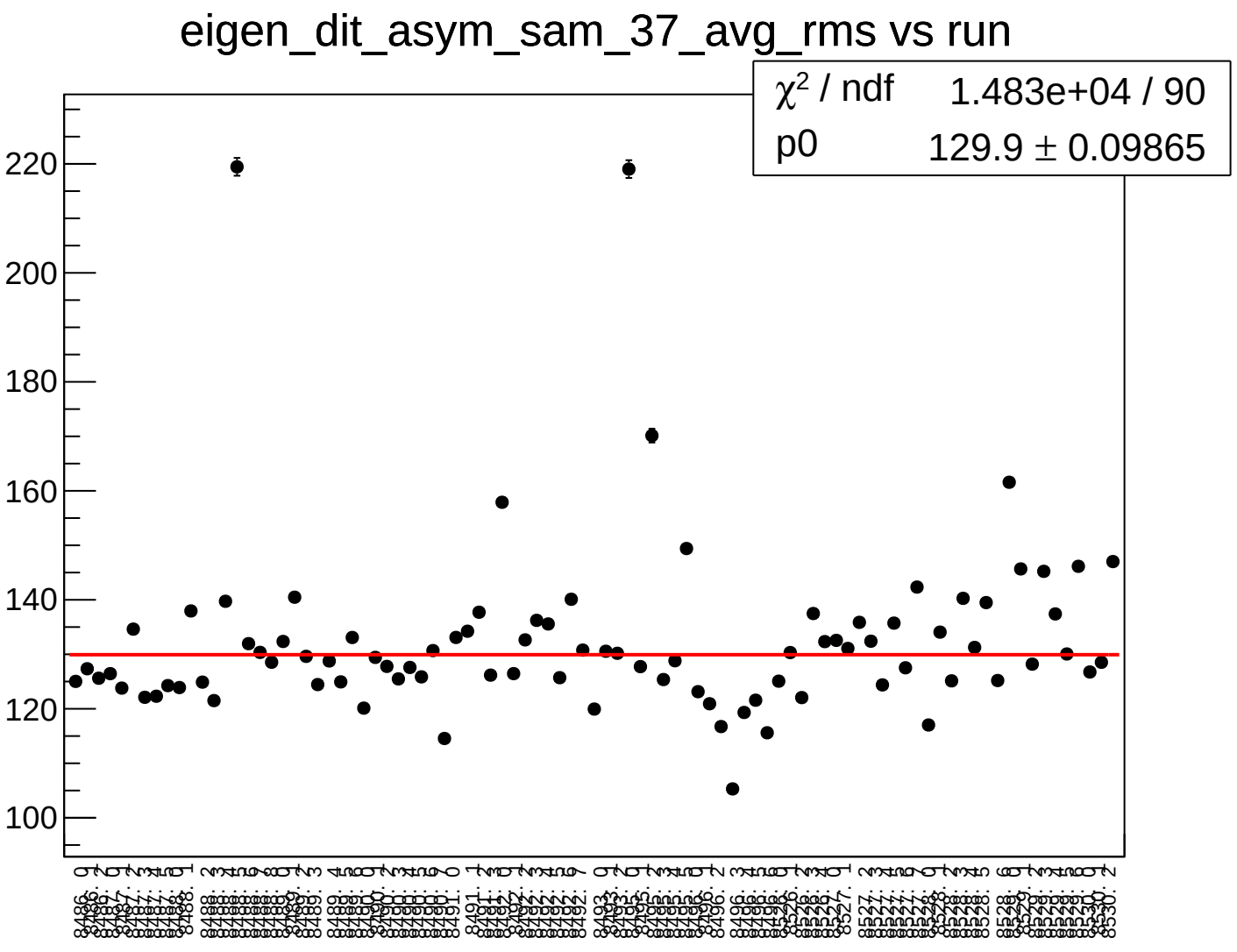

asym_sam_37_avg_dit_correction_mean vs run
χ² / ndf 81.4 / 90
p0 −1963 ± 1382
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 98.6
Std Dev 0
2
1
0
−1
−2

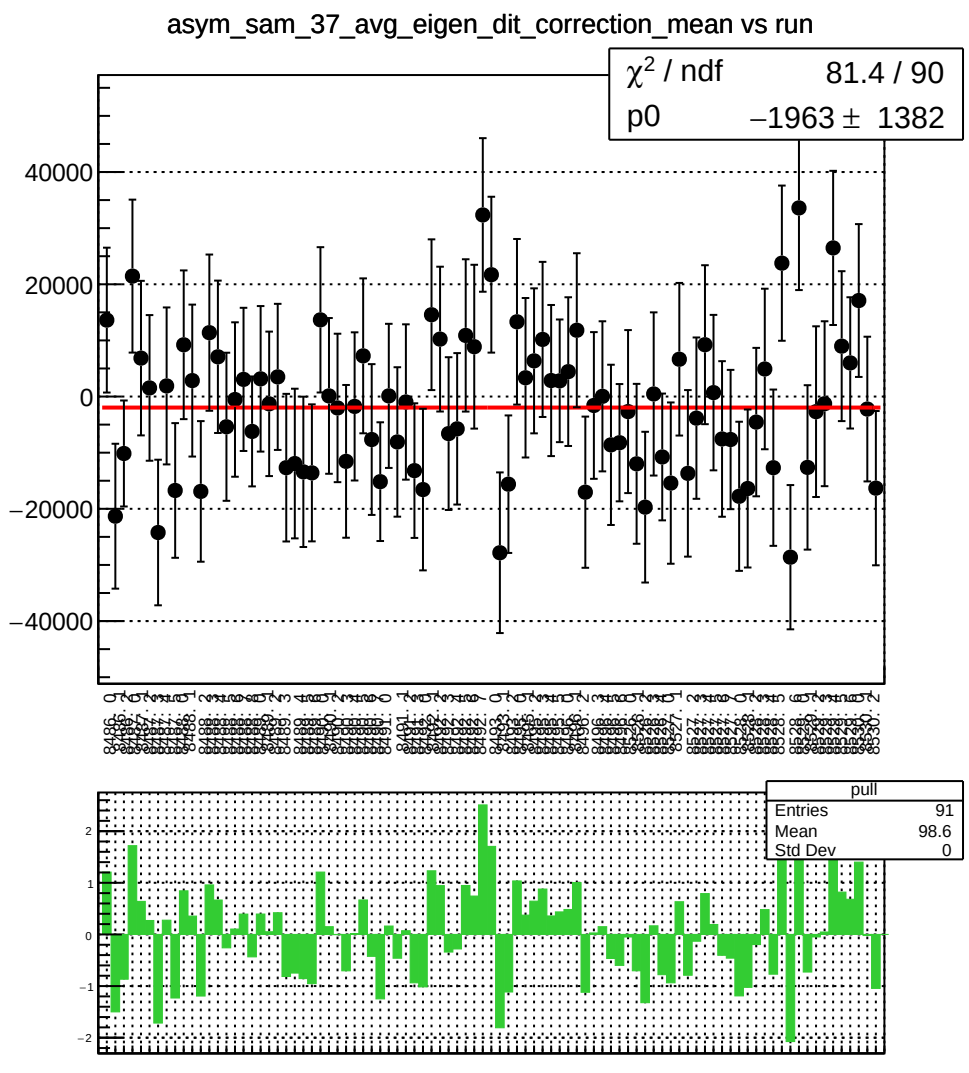

pull1D
Entries 91
Mean 0.02048
Std Dev 0.9456
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

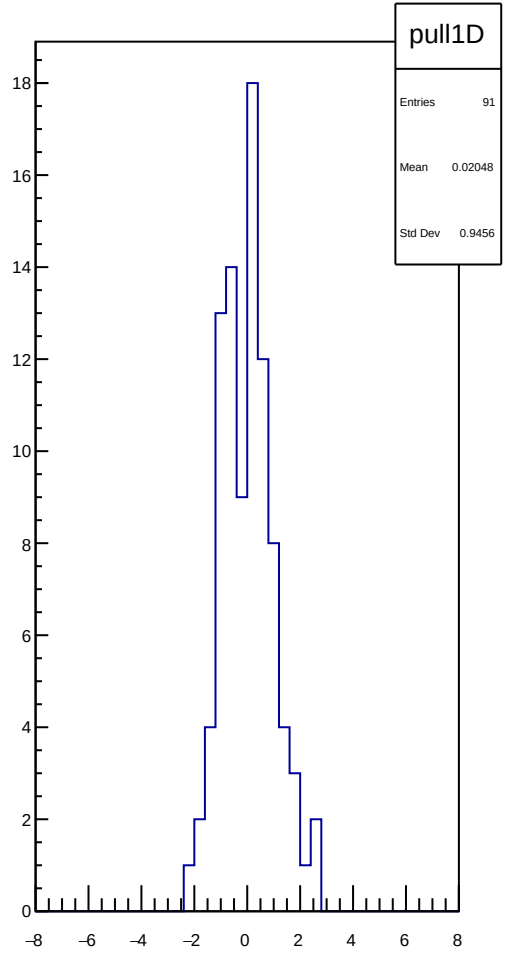

asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 3367 / 90
p0 1292 ± 0.9774
1450
1400
1350
1300
1250
1200

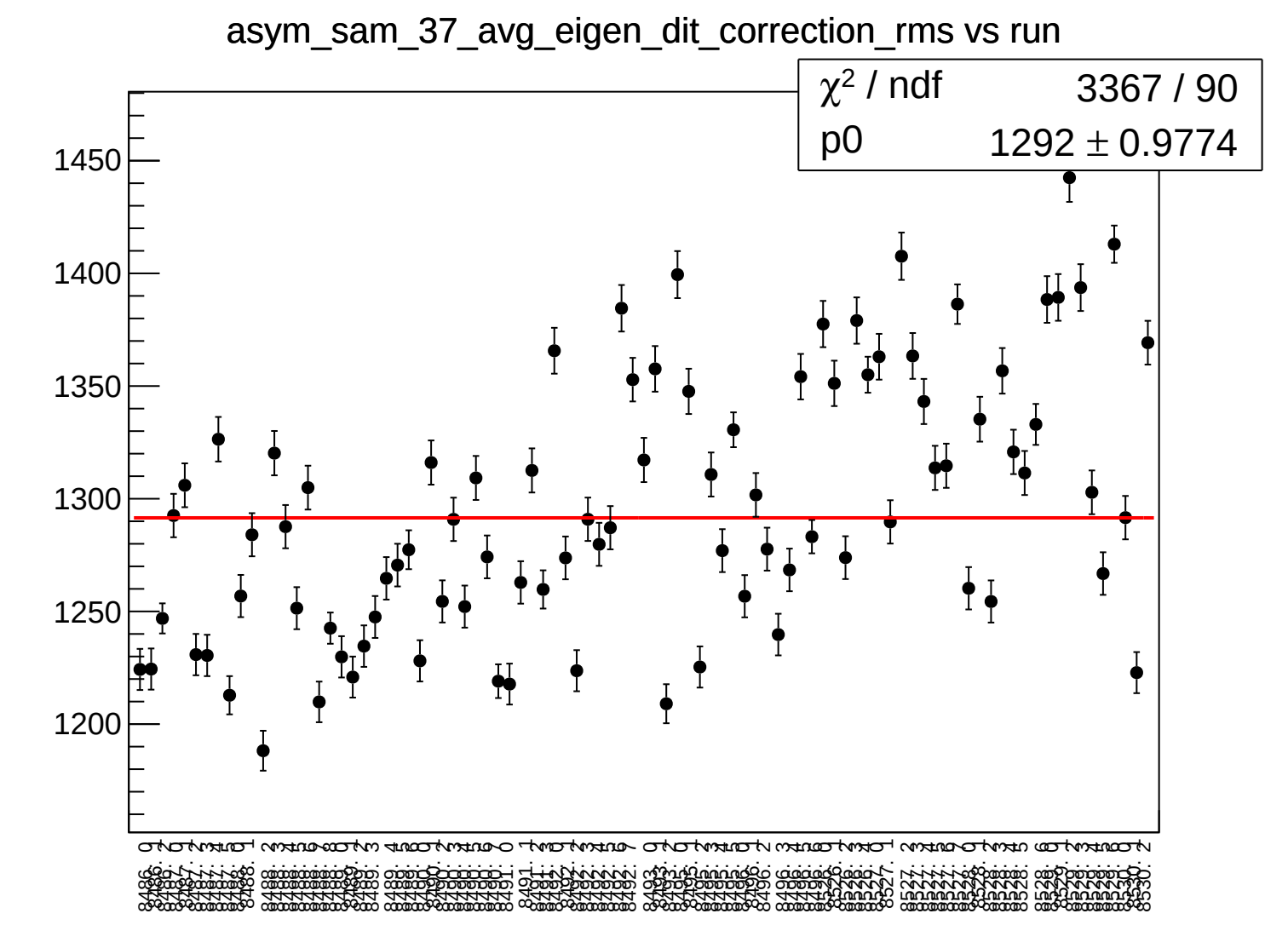

eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 86.31 / 90
p0 435.9 ± 139.5
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean −345
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

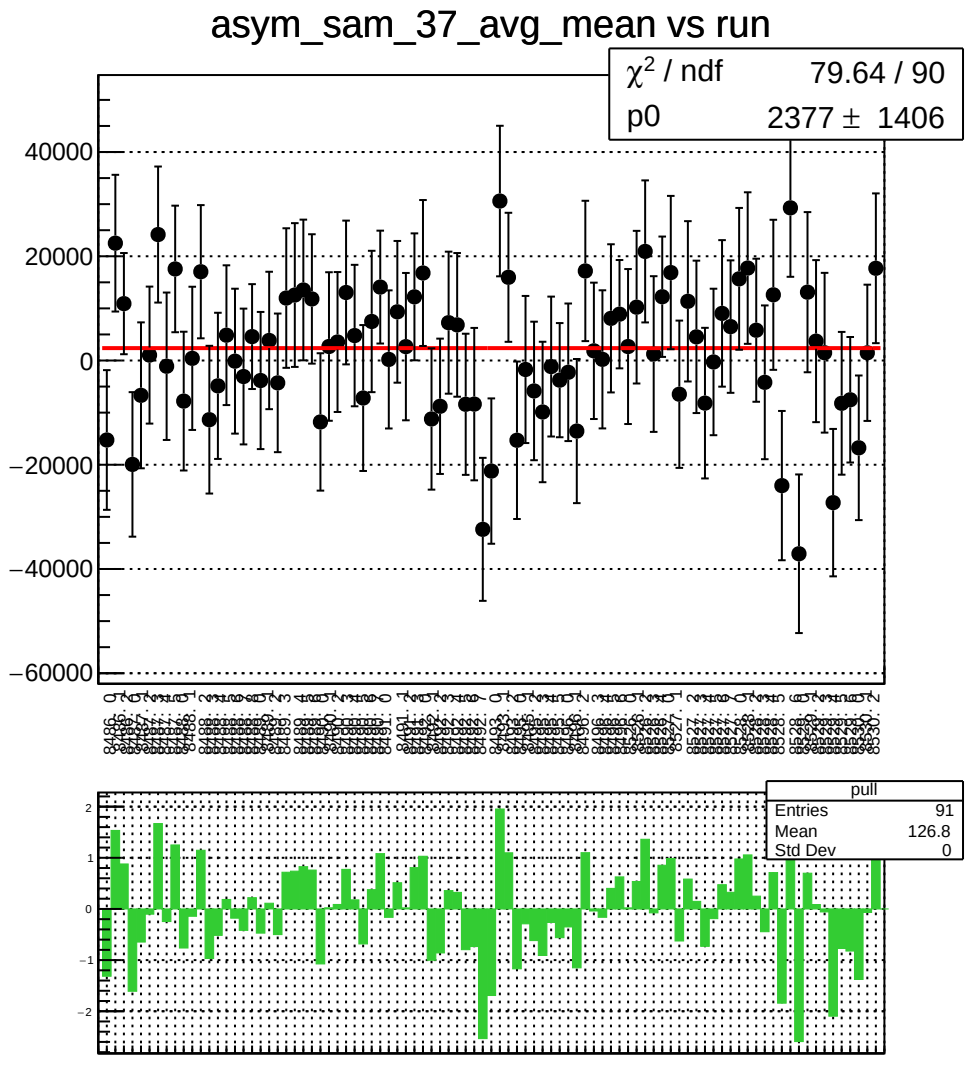

pull1D
Entries 91
Mean 0.01042
Std Dev 0.9738
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

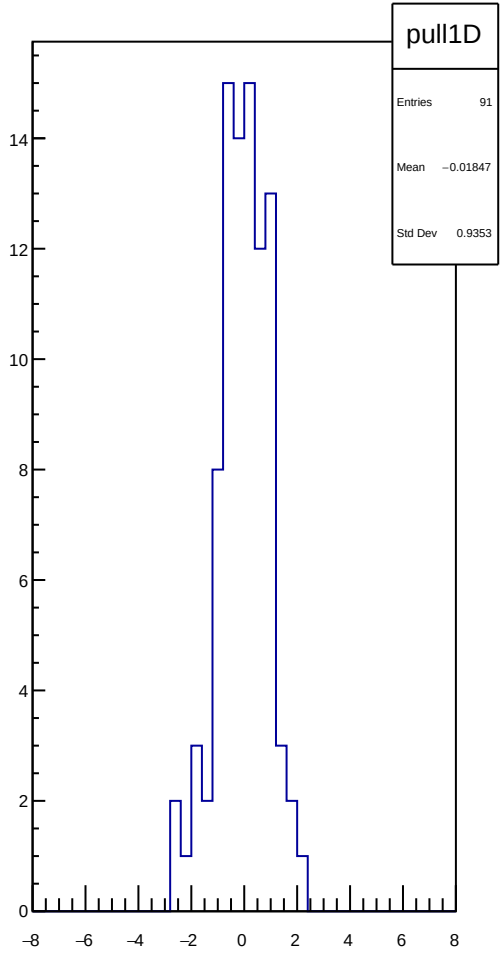

eigen_dit_asym_sam_37_avg_rms vs run
χ^2 / ndf 1.483e+04 / 90
p0 129.9 ± 0.09865
220
200
180
160
140
120
100

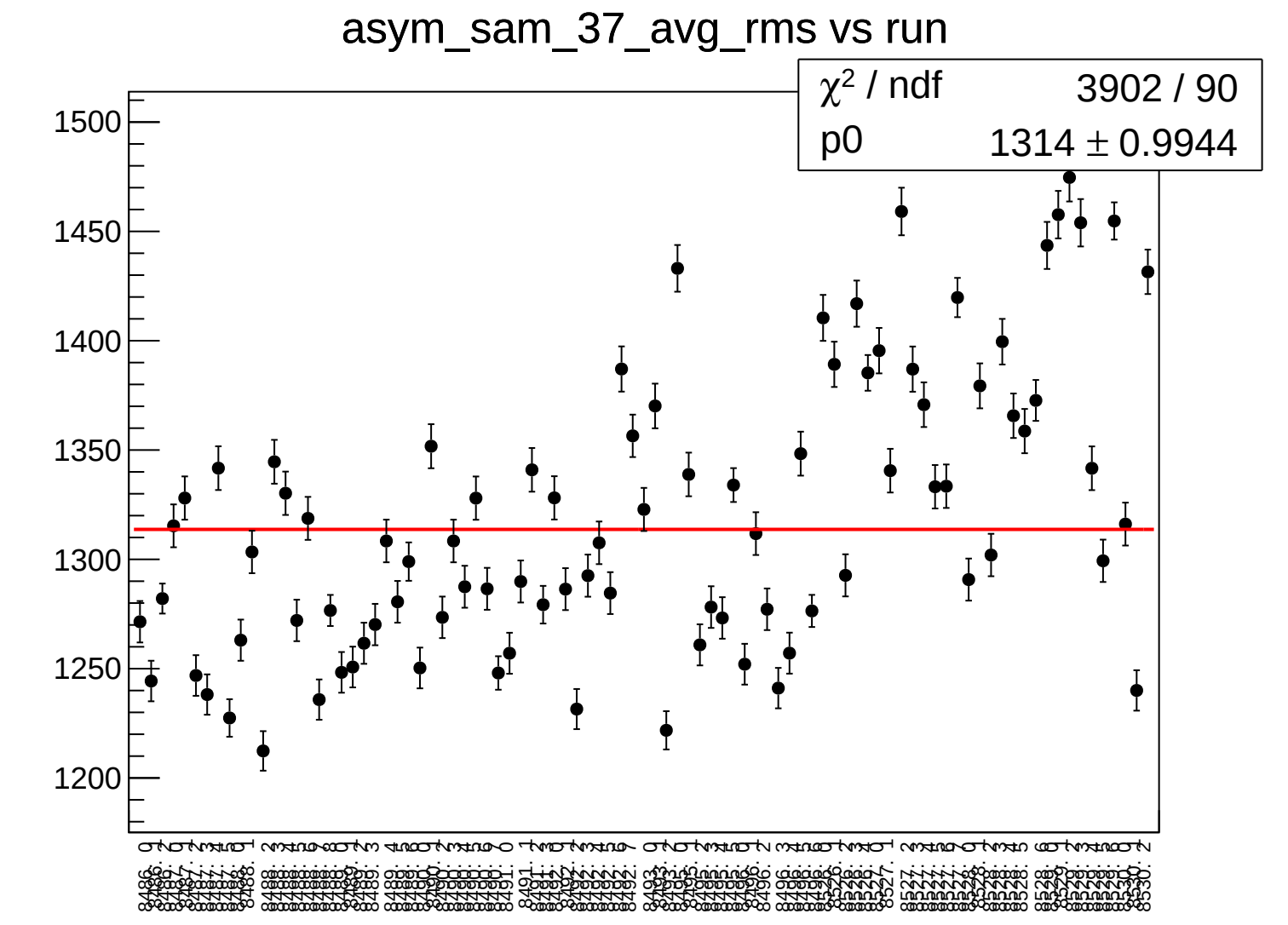

asym_sam_37_avg_eigen_dit_correction_mean vs run
χ² / ndf 81.4 / 90
p0 −1963 ± 1382
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 98.6
Std Dev 0
2
1
0
−1
−2

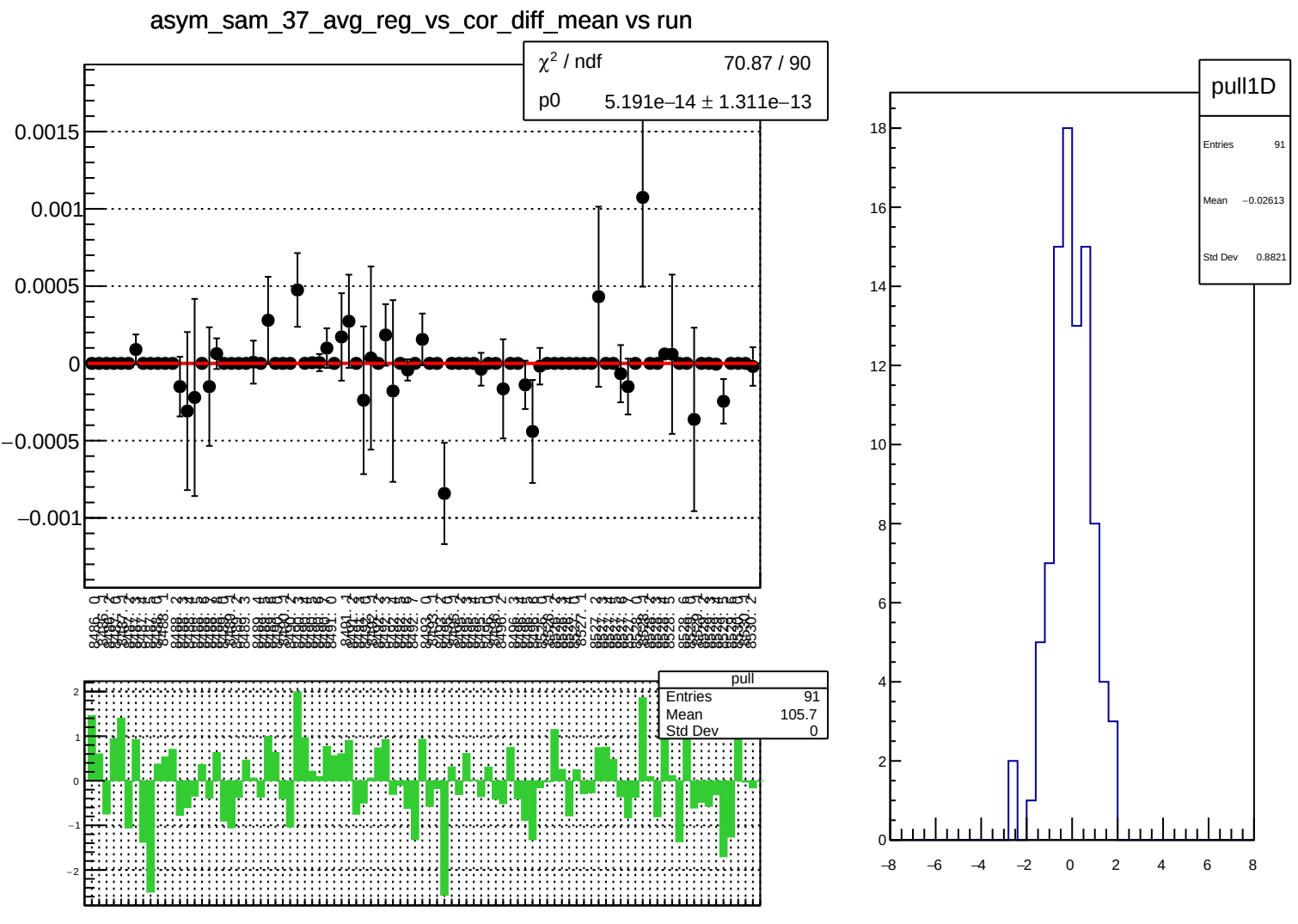

pull1D
Entries 91
Mean 0.02048
Std Dev 0.9456
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

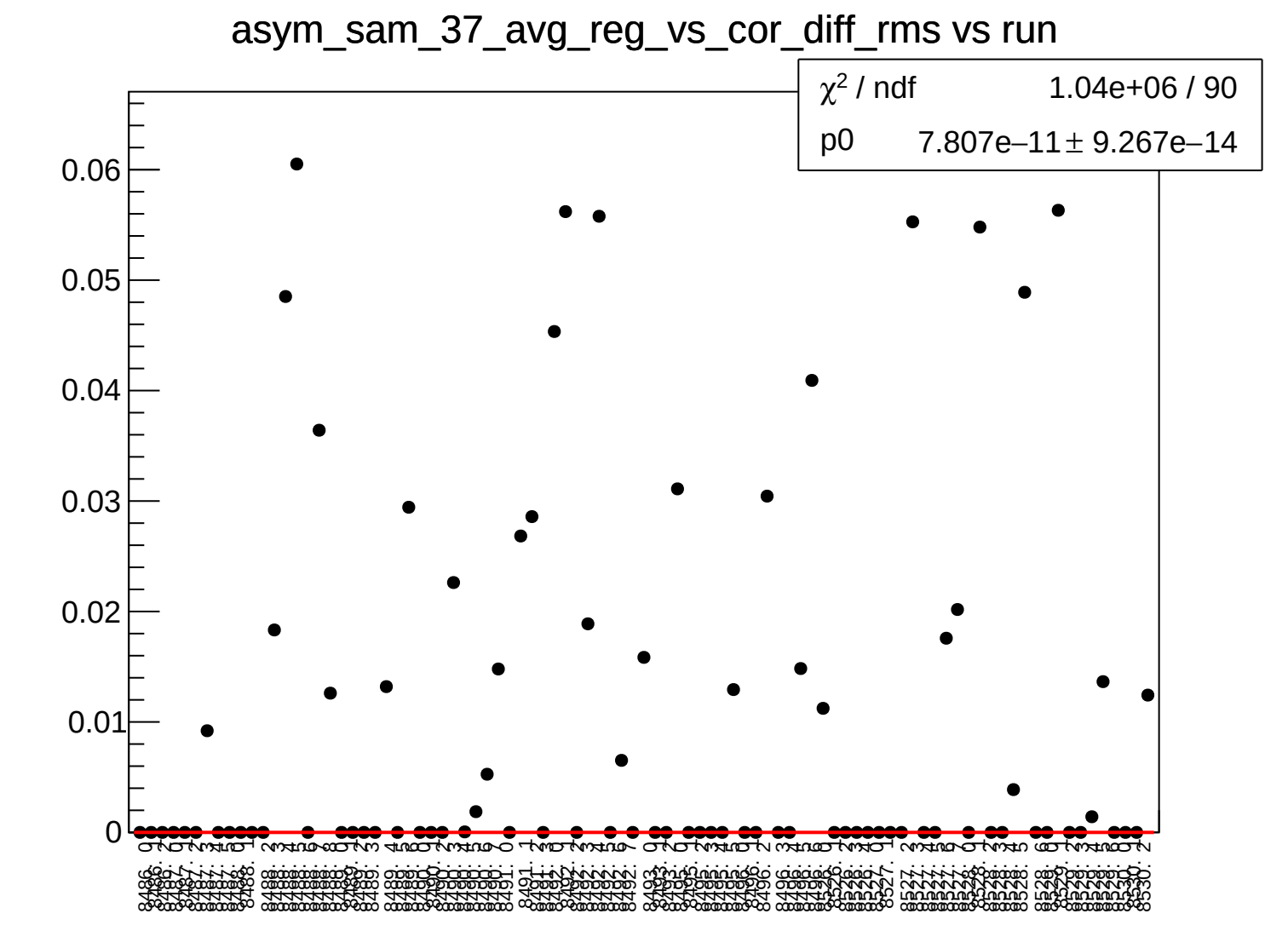

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 3367 / 90
p0 1292 ± 0.9774
1450
1400
1350
1300
1250
1200

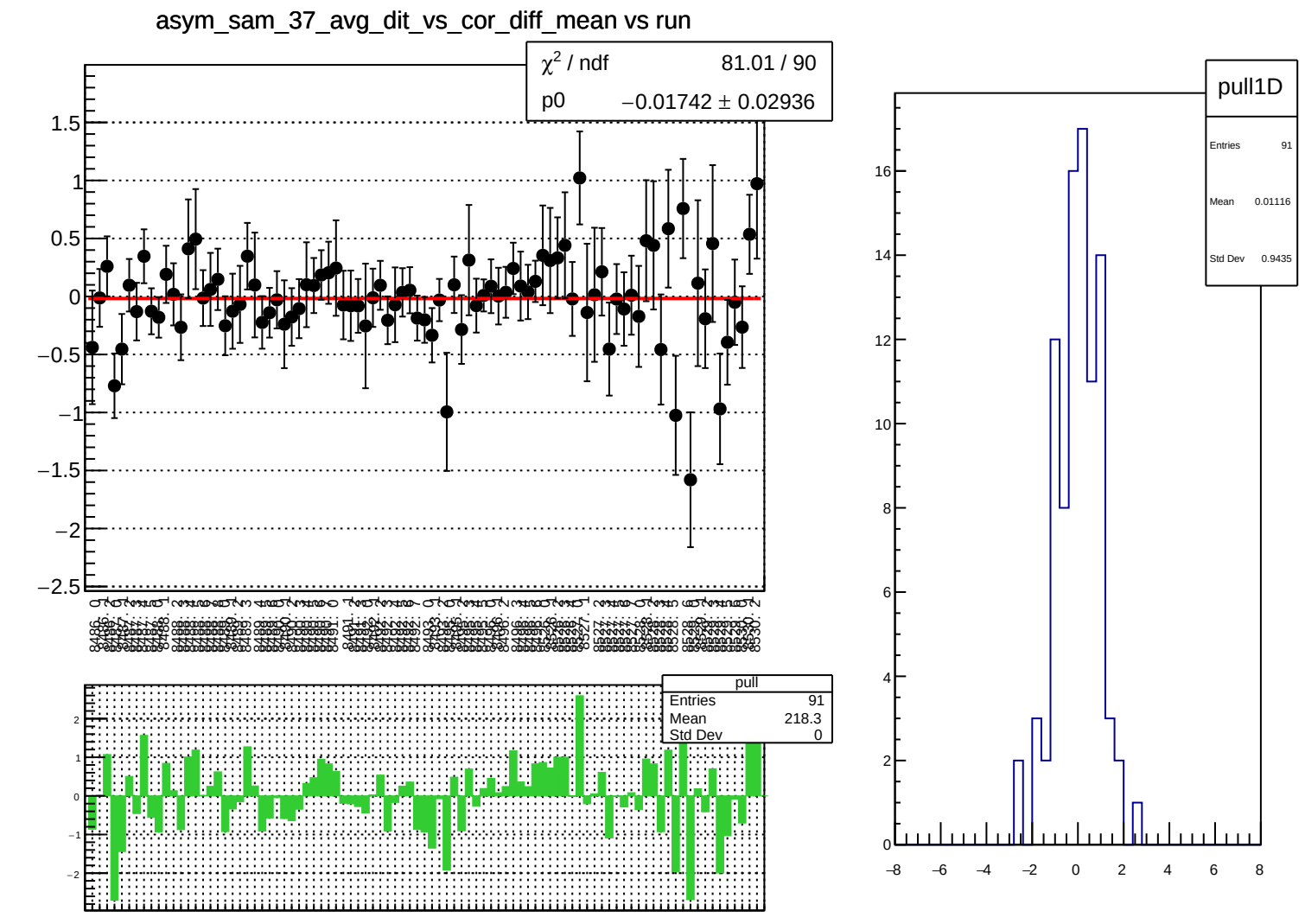

asym_sam_37_avg_mean vs run
χ² / ndf 79.64 / 90
p0 2377 ± 1406
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 126.8
Std Dev 0
2
1
0
−1
−2

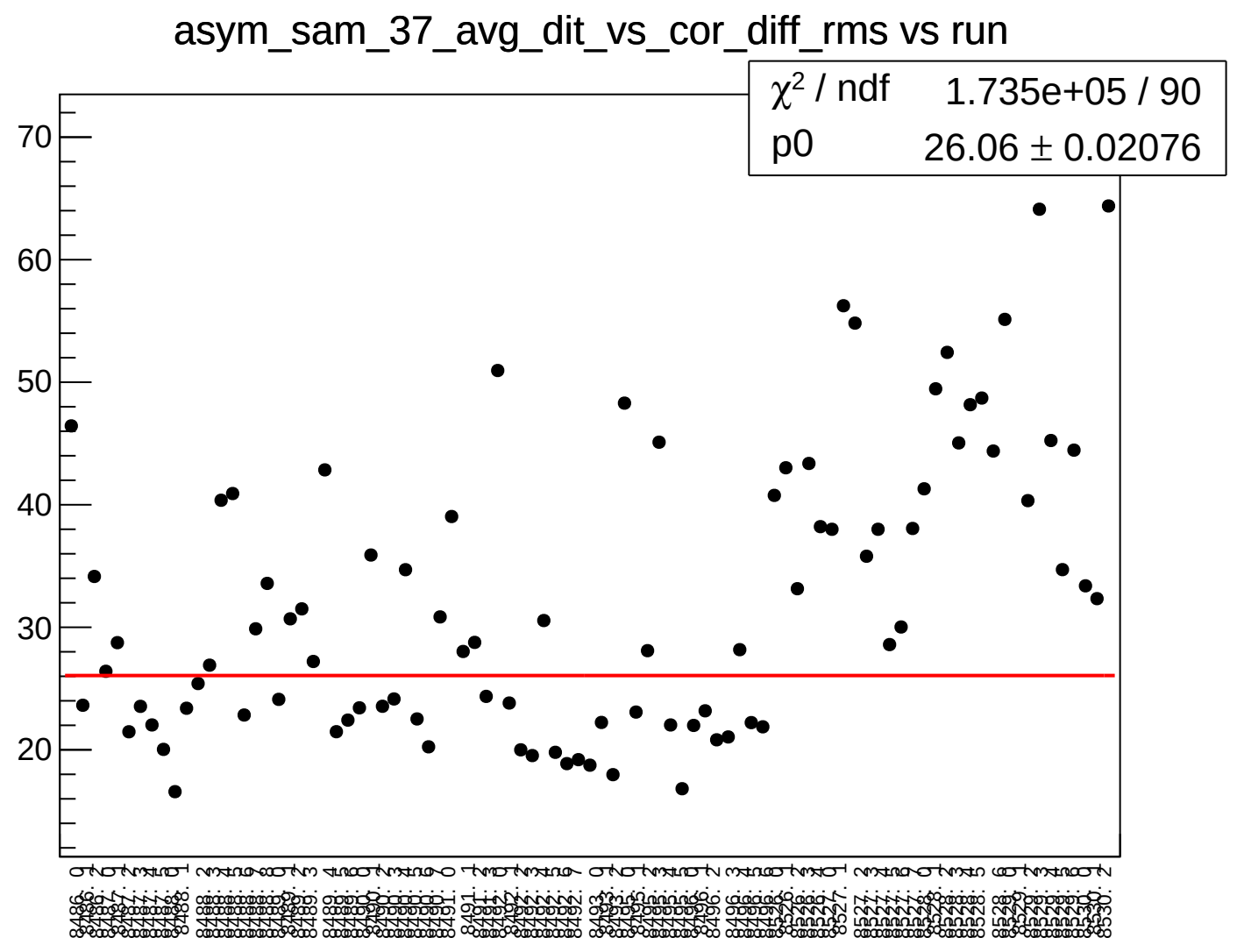

pull1D
Entries 91
Mean −0.01847
Std Dev 0.9353
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

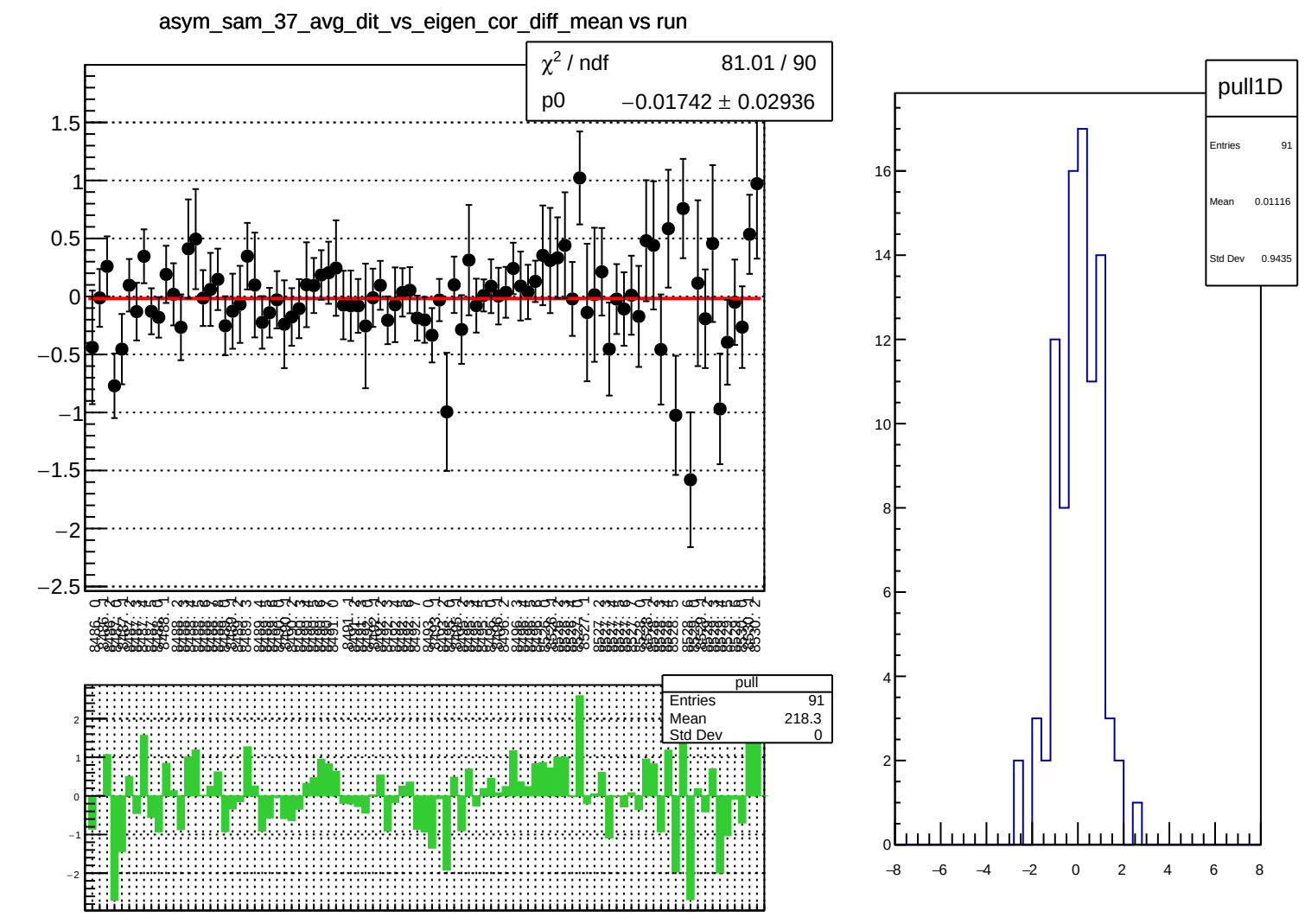

asym_sam_37_avg_rms vs run
χ² / ndf 3902 / 90
p0 1314 ± 0.9944
1500
1450
1400
1350
1300
1250
1200

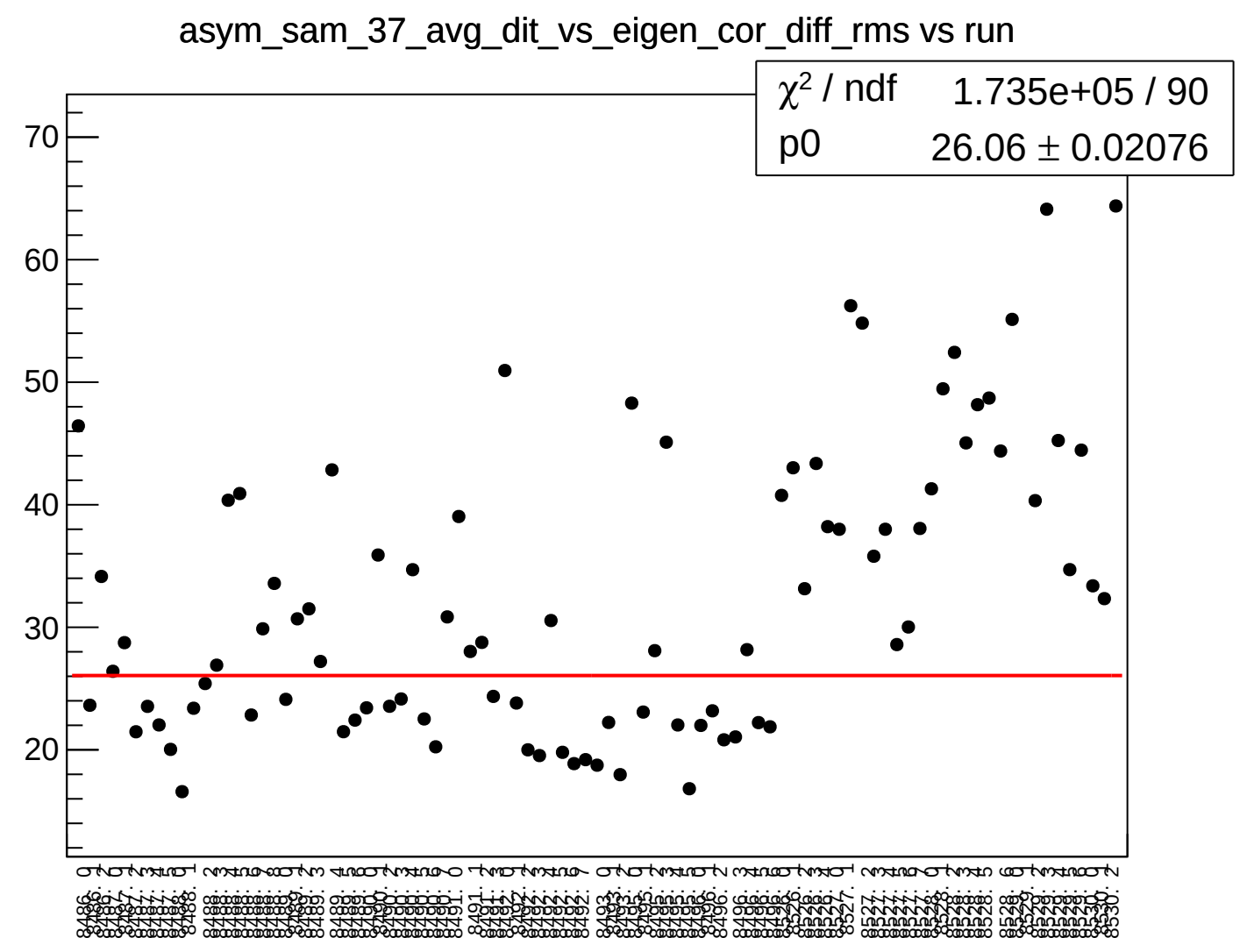

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 70.87 / 90
p0 5.191e−14 ± 1.311e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 91
Mean 105.7
Std Dev 0
pull1D
Entries 91
Mean −0.02613
Std Dev 0.8821

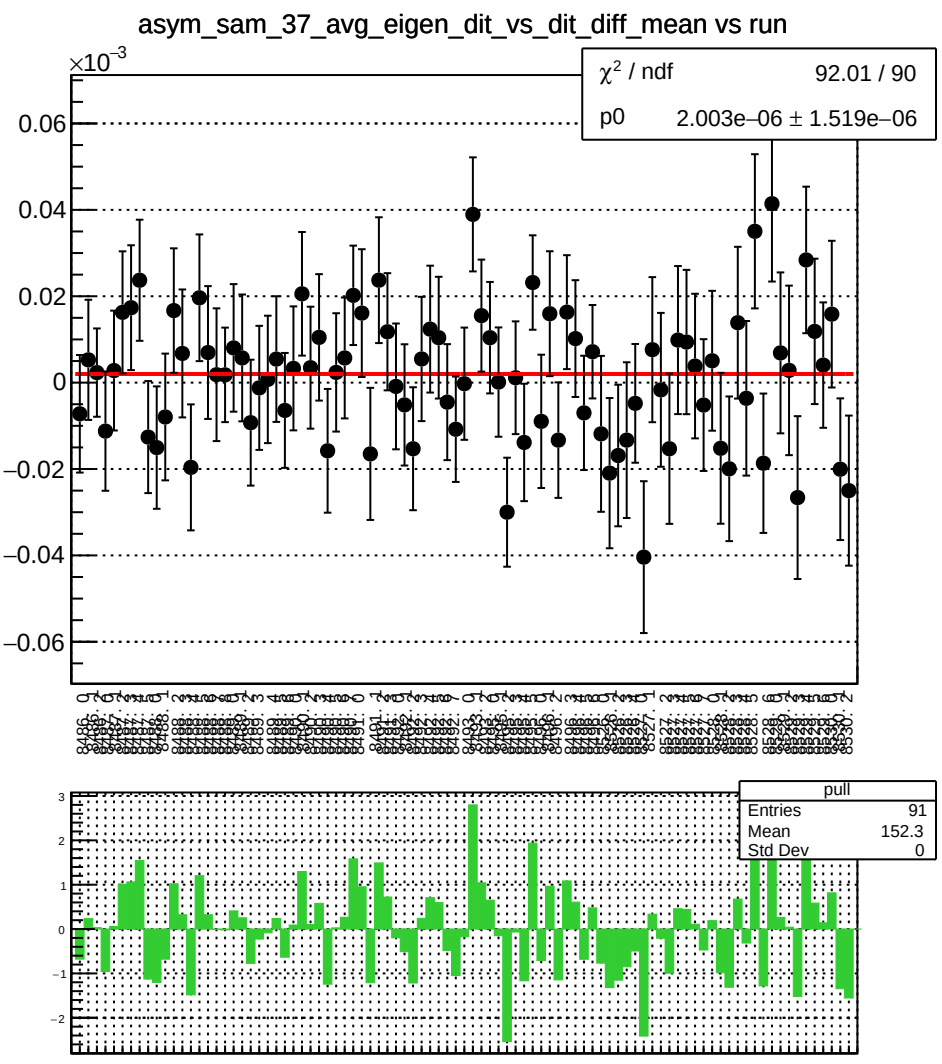

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.04e+06 / 90
p0 7.807e−11 ± 9.267e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

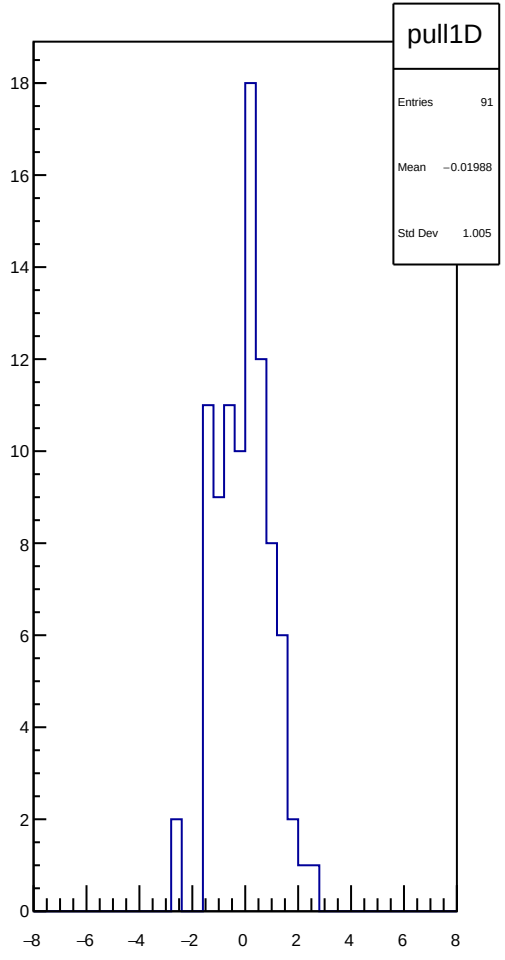

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 81.01 / 90
p0 −0.01742 ± 0.02936
pull
Entries 91
Mean 218.3
Std Dev 0
pull1D
Entries 91
Mean 0.01116
Std Dev 0.9435

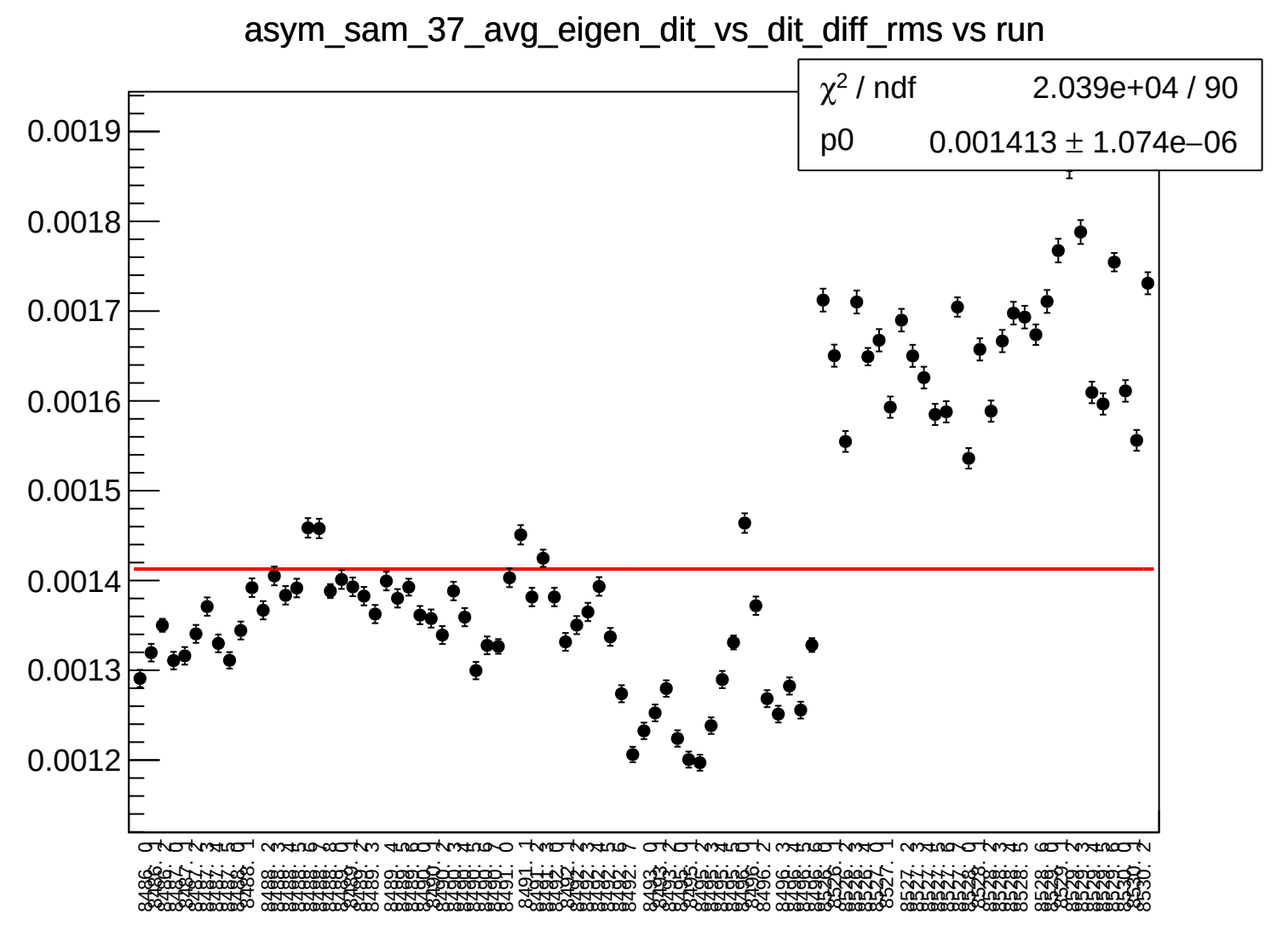

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.735e+05 / 90
p0 26.06 ± 0.02076
70
60
50
40
30
20

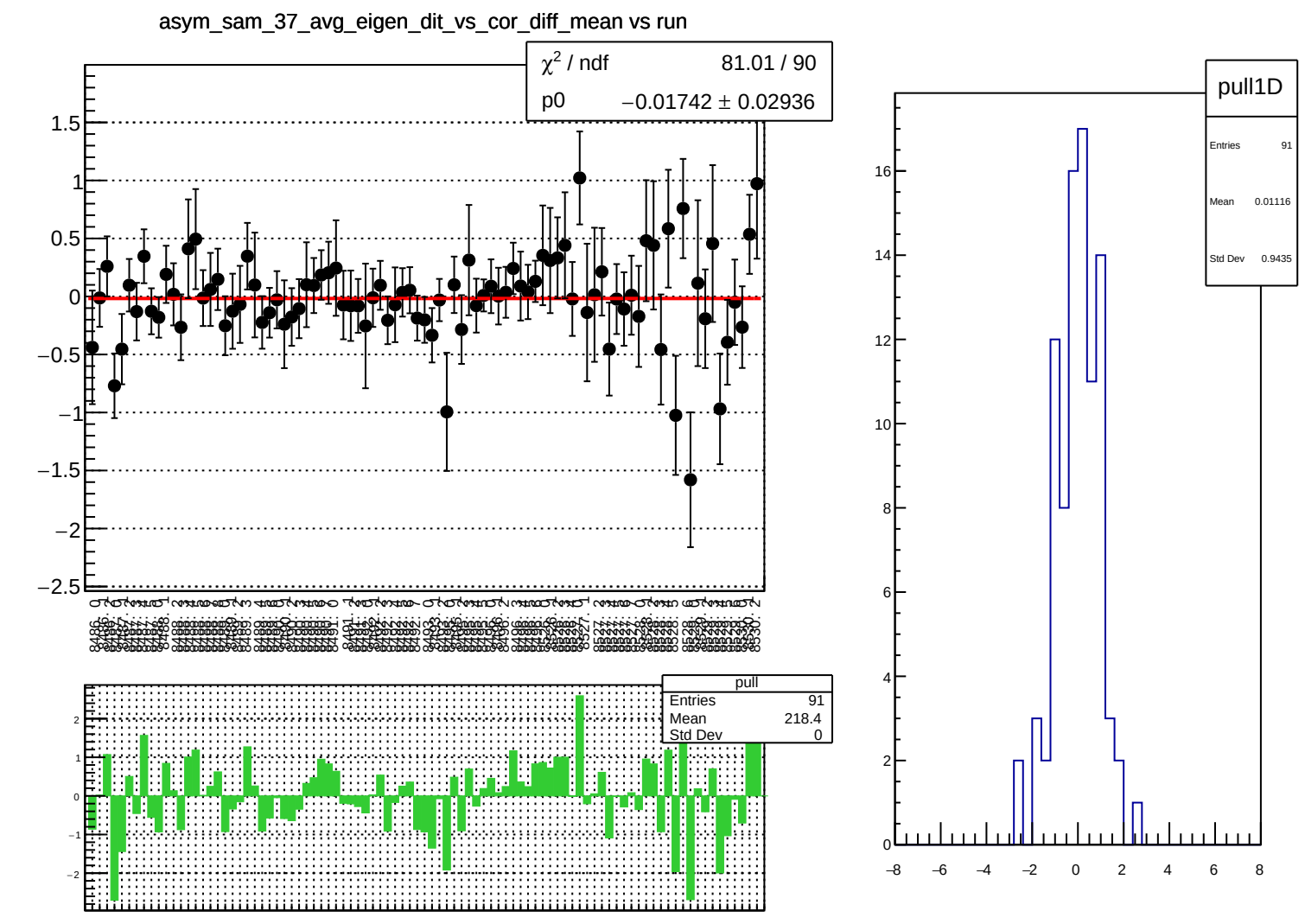

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.01 / 90
p0 −0.01742 ± 0.02936
pull
Entries 91
Mean 218.3
Std Dev 0
pull1D
Entries 91
Mean 0.01116
Std Dev 0.9435

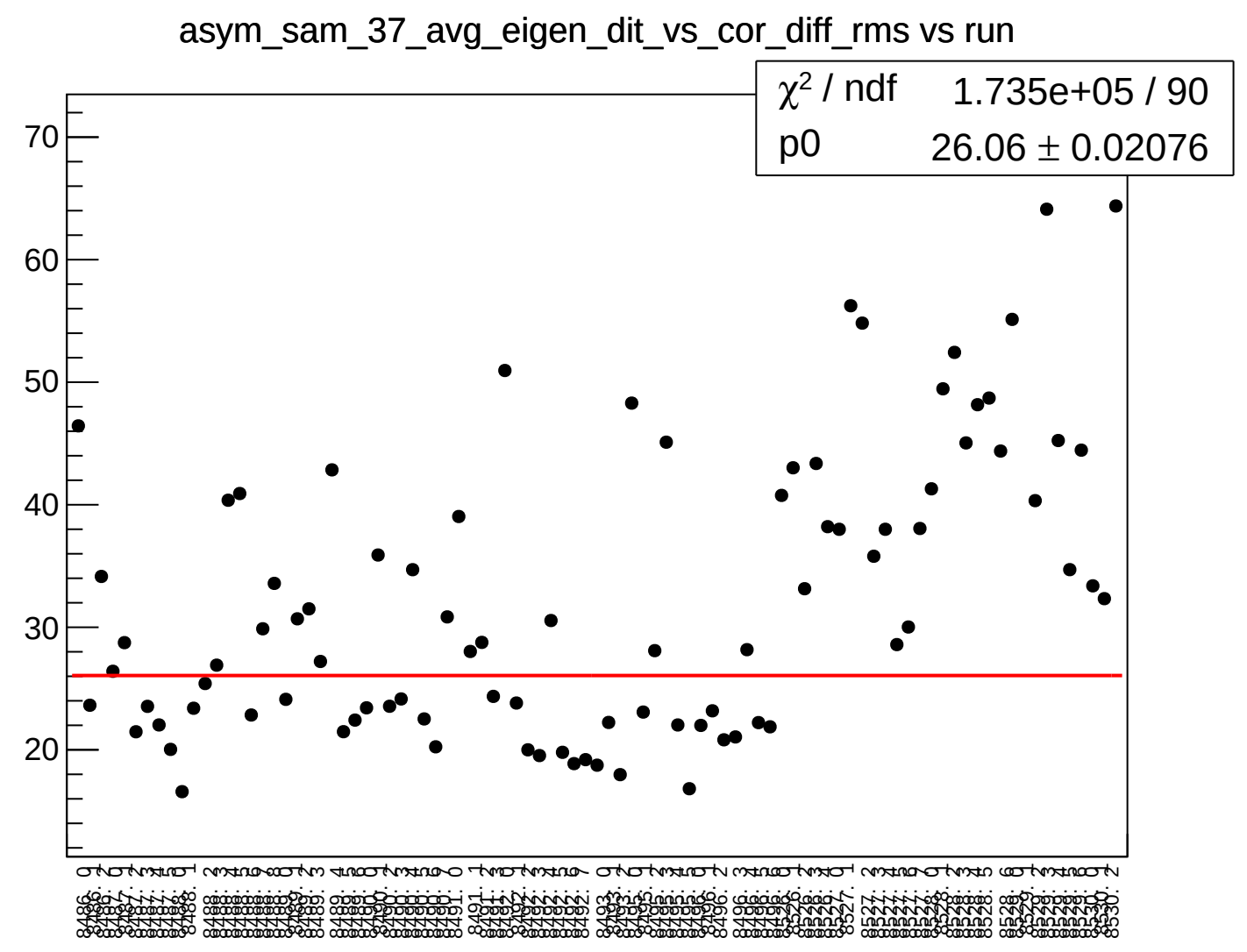

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.735e+05 / 90
p0 26.06 ± 0.02076
70
60
50
40
30
20

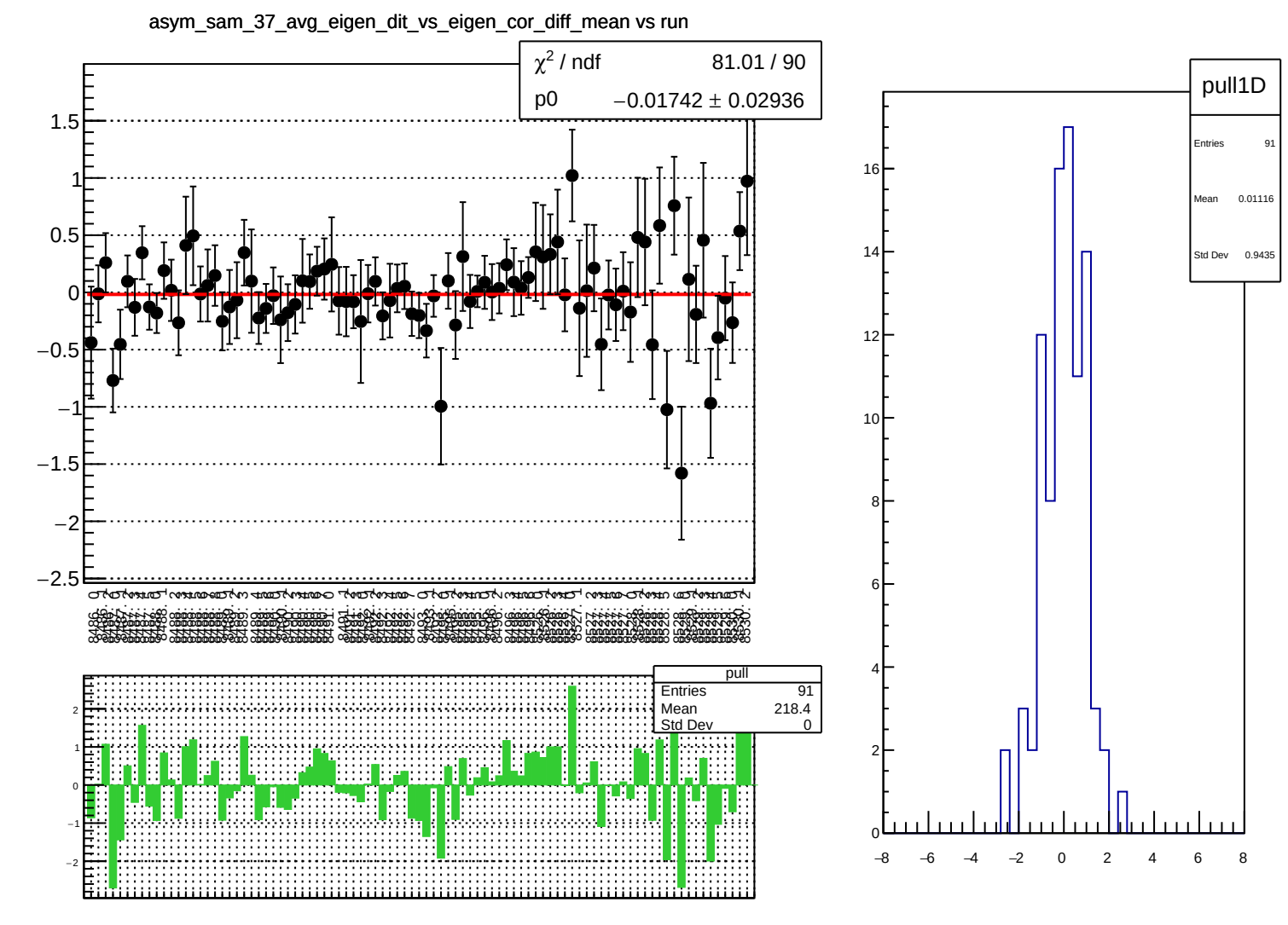

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.01 / 90
p0 2.003e−06 ± 1.519e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 91
Mean 152.3
Std Dev 0
3
2
1
0
−1
−2

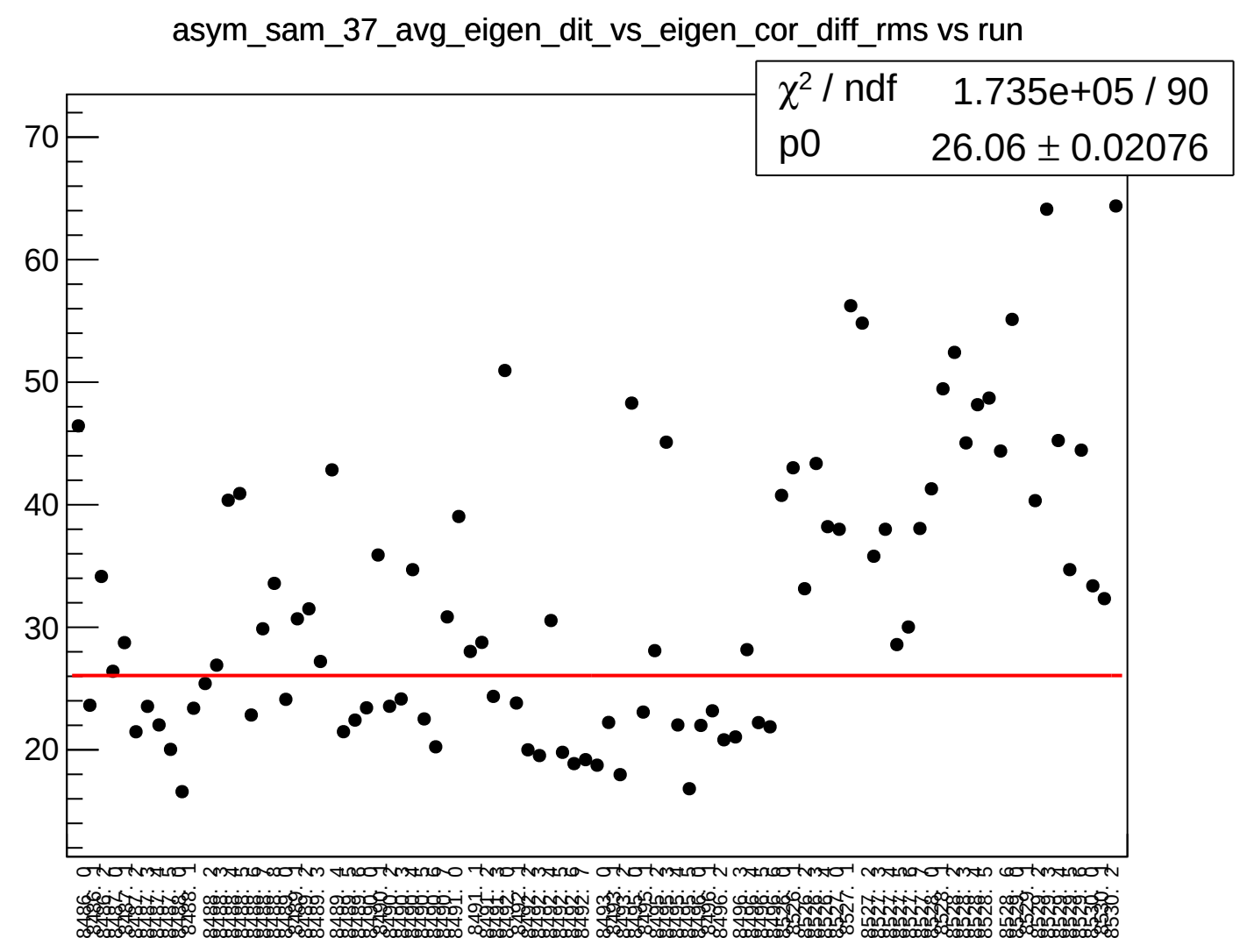

pull1D
Entries 91
Mean −0.01988
Std Dev 1.005
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

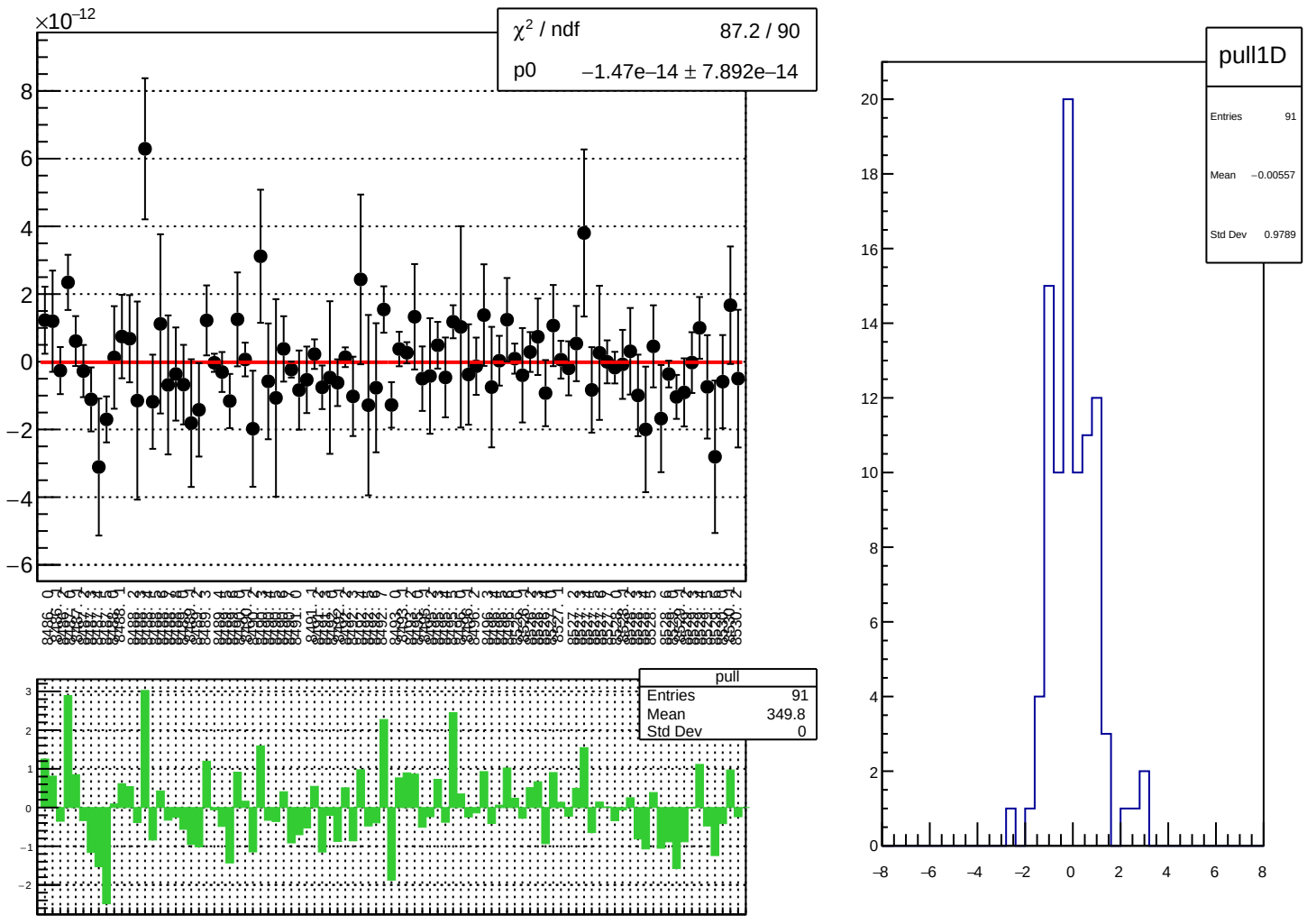

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.039e+04 / 90
p0 0.001413 ± 1.074e−06
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012

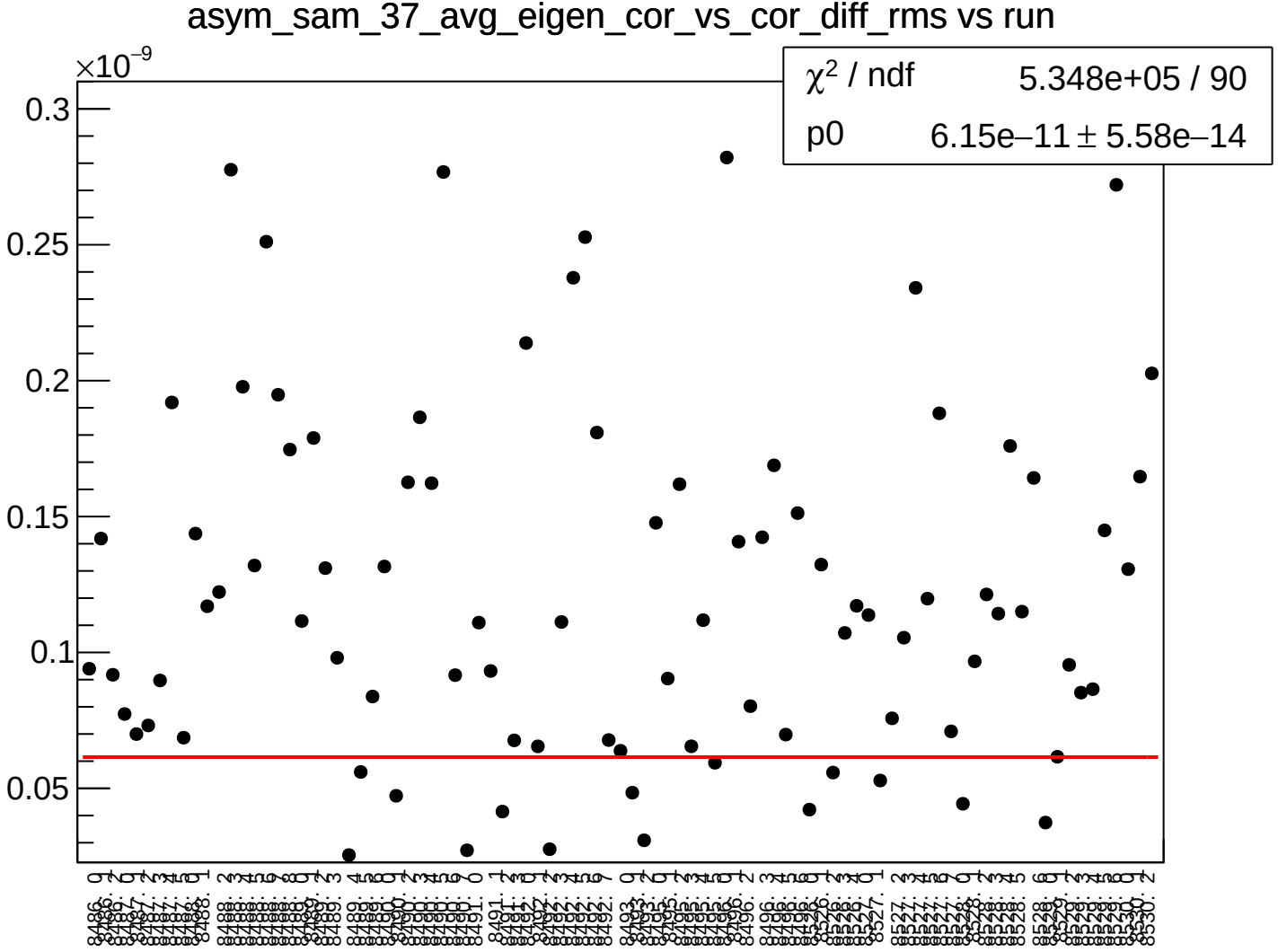

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.01 / 90
p0 −0.01742 ± 0.02936
pull
Entries 91
Mean 218.4
Std Dev 0
pull1D
Entries 91
Mean 0.01116
Std Dev 0.9435

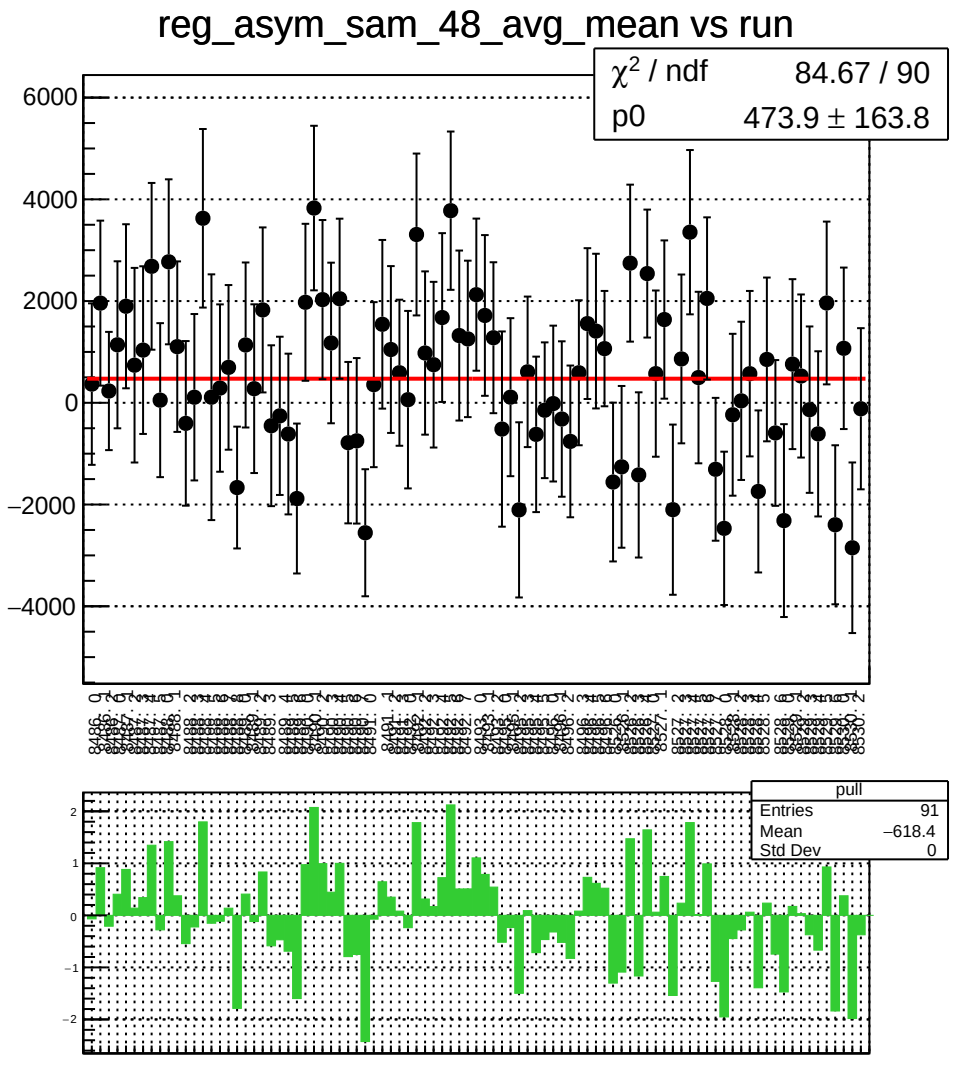

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.735e+05 / 90
p0 26.06 ± 0.02076
70
60
50
40
30
20

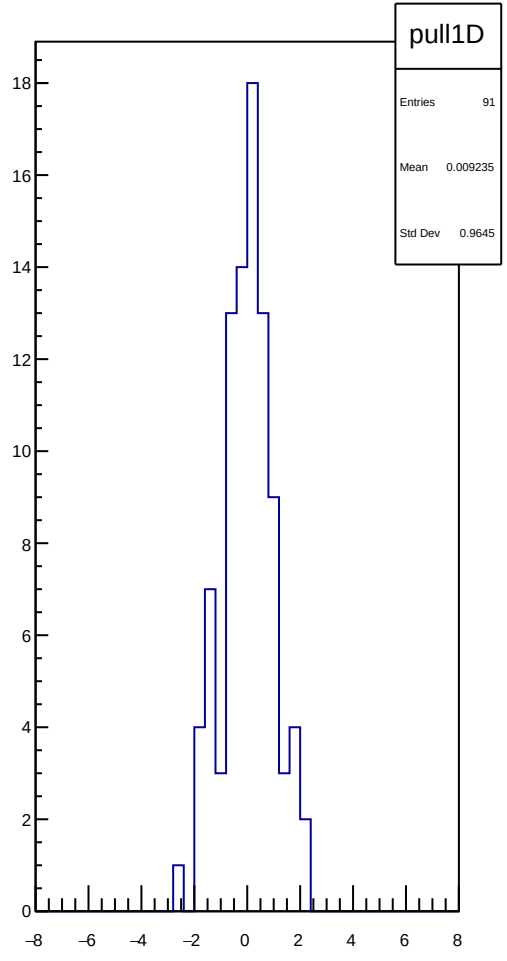

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.01 / 90
p0 −0.01742 ± 0.02936
pull
Entries 91
Mean 218.4
Std Dev 0
pull1D
Entries 91
Mean 0.01116
Std Dev 0.9435

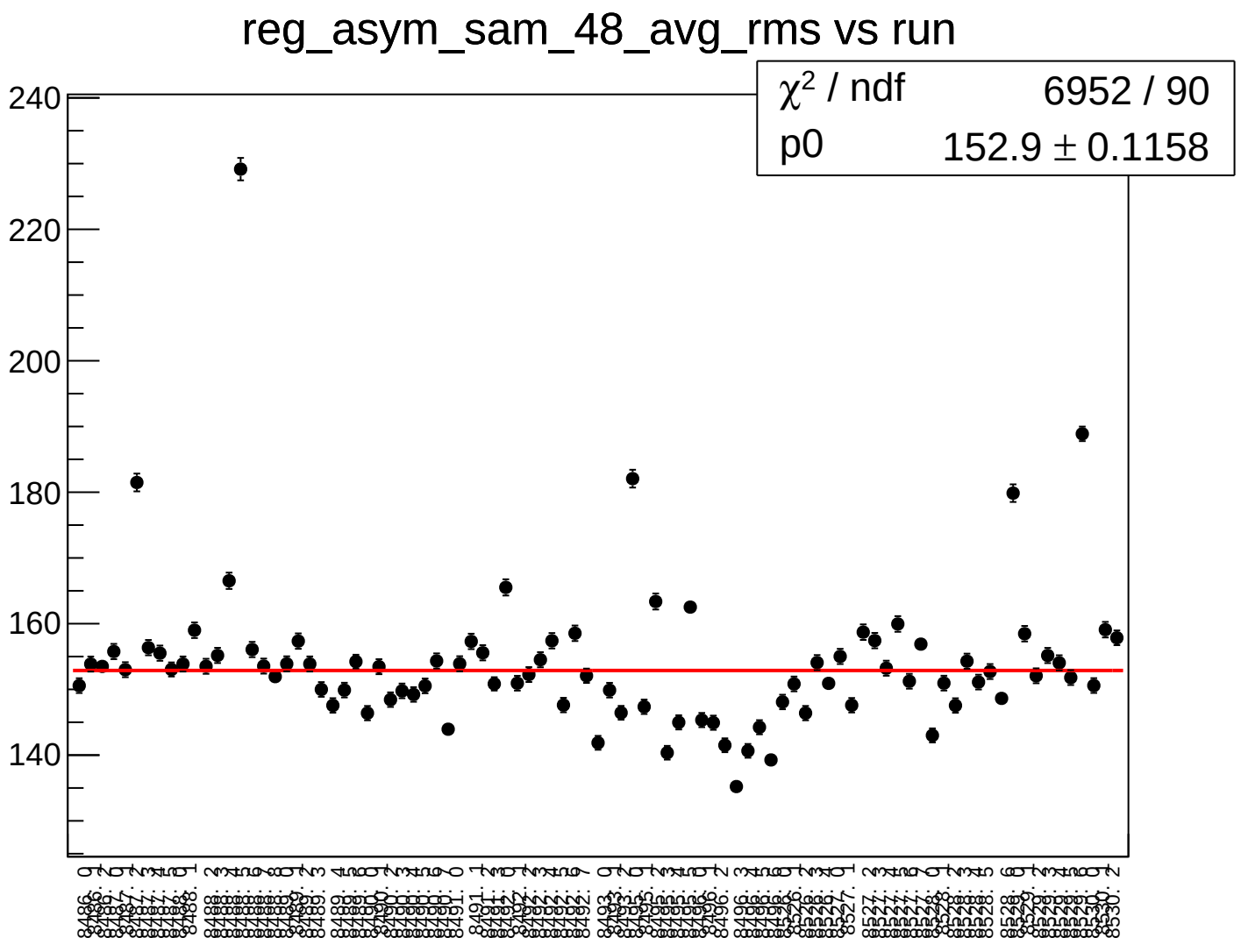

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.735e+05 / 90
p0 26.06 ± 0.02076
70
60
50
40
30
20

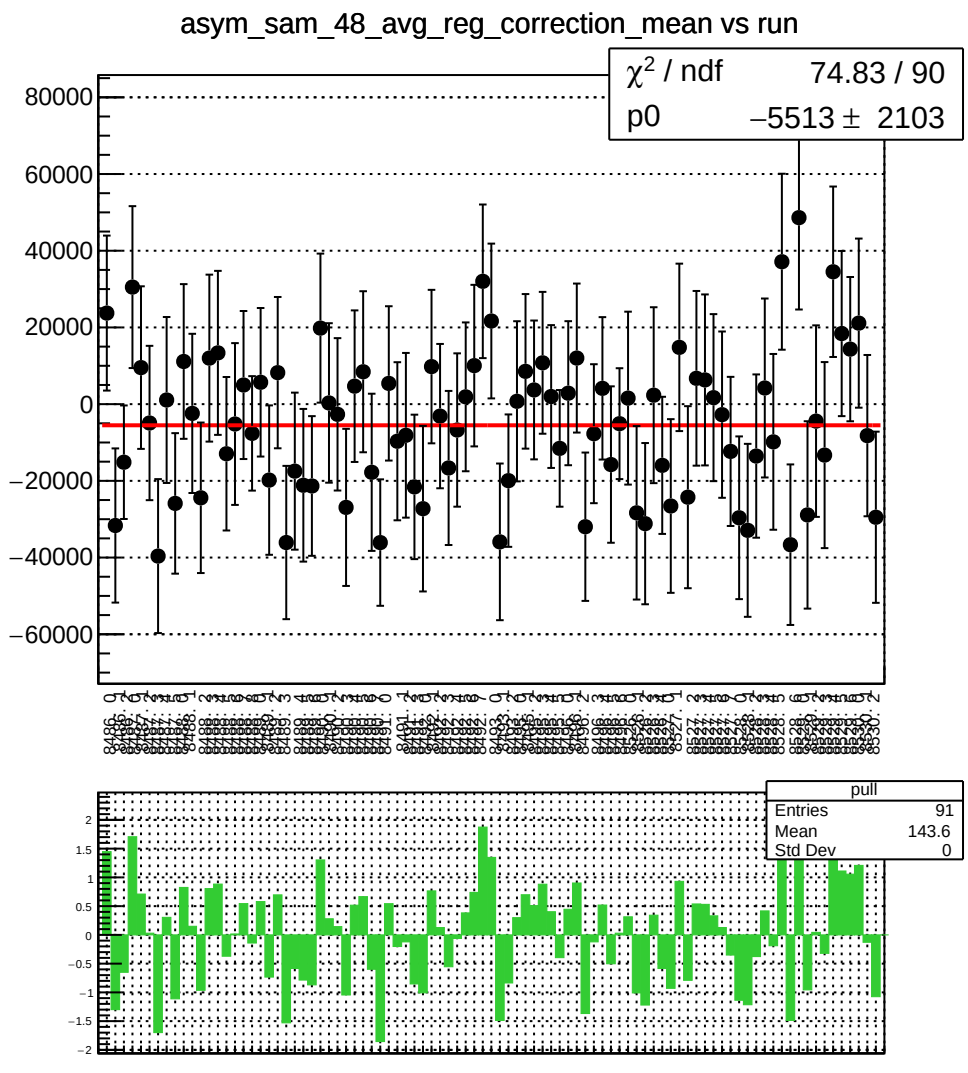

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.2 / 90
p0 −1.47e−14 ± 7.892e−14
pull
Entries 91
Mean 349.8
Std Dev 0
pull1D
Entries 91
Mean −0.00557
Std Dev 0.9789

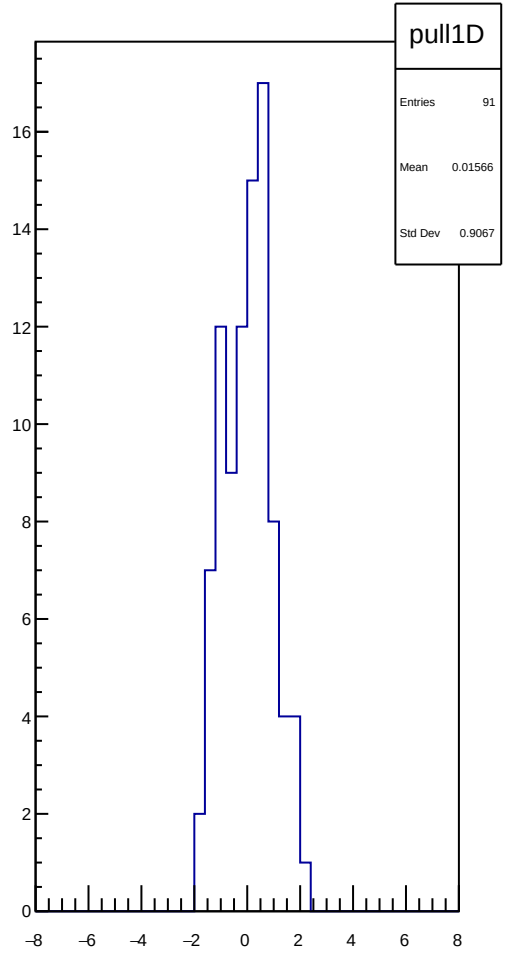

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.348e+05 / 90
p0 6.15e−11 ± 5.58e−14
0.3
0.25
0.2
0.15
0.1
0.05

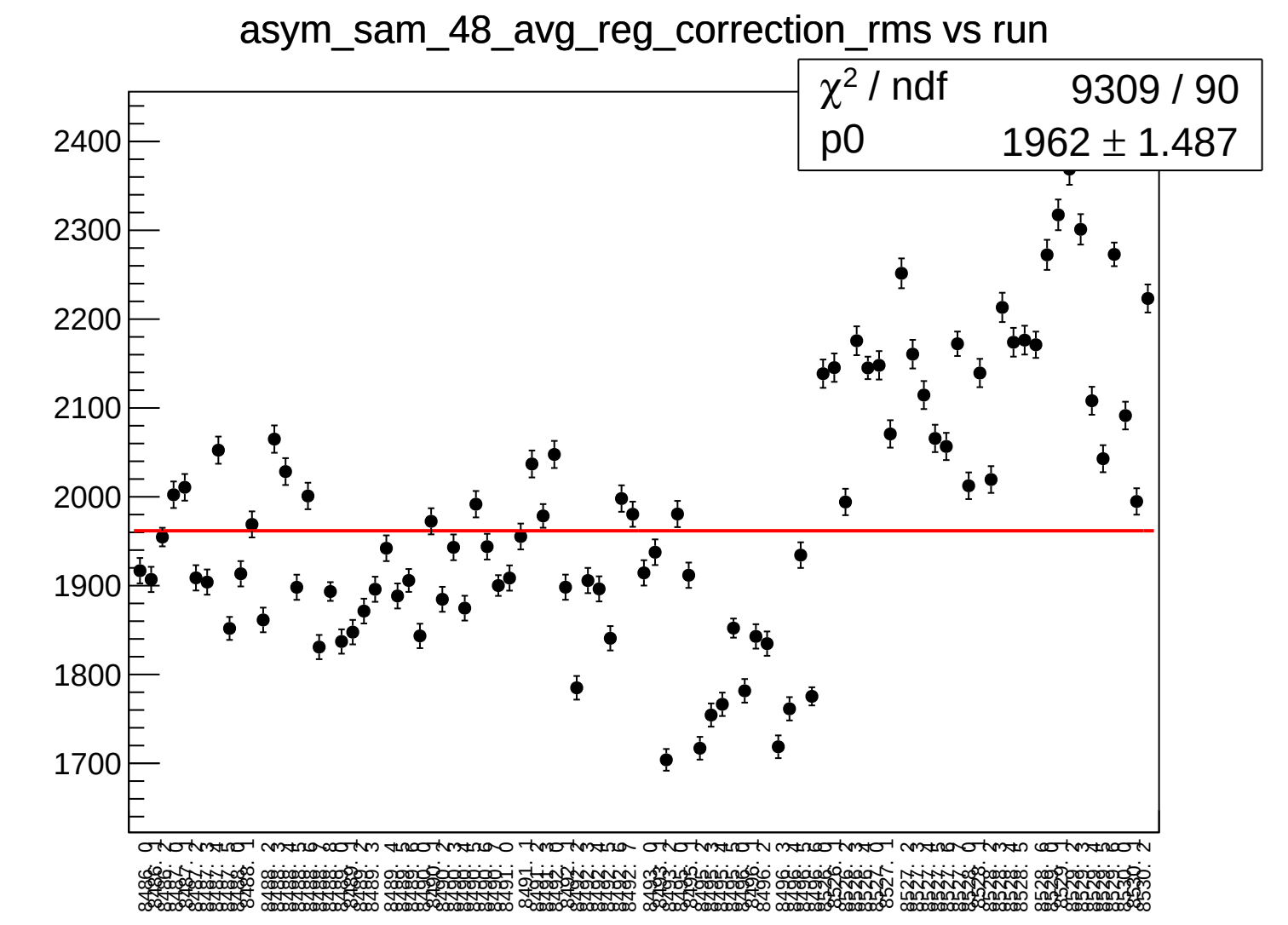

reg_asym_sam_48_avg_mean vs run
χ^2 / ndf 84.67 / 90
p0 473.9 ± 163.8
6000
4000
2000
0
−2000
−4000
pull
Entries 91
Mean −618.4
Std Dev 0
2
1
0
−1
−2

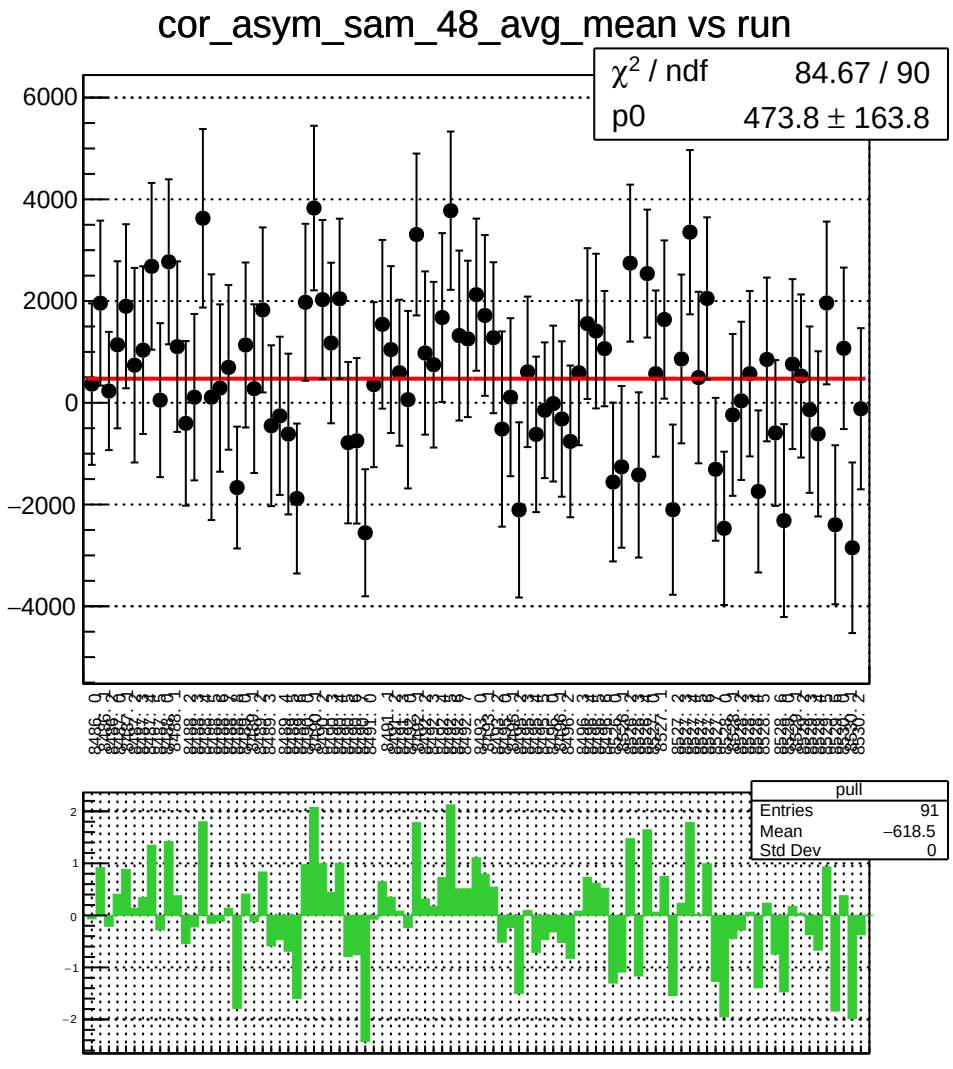

pull1D
Entries 91
Mean 0.009235
Std Dev 0.9645
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

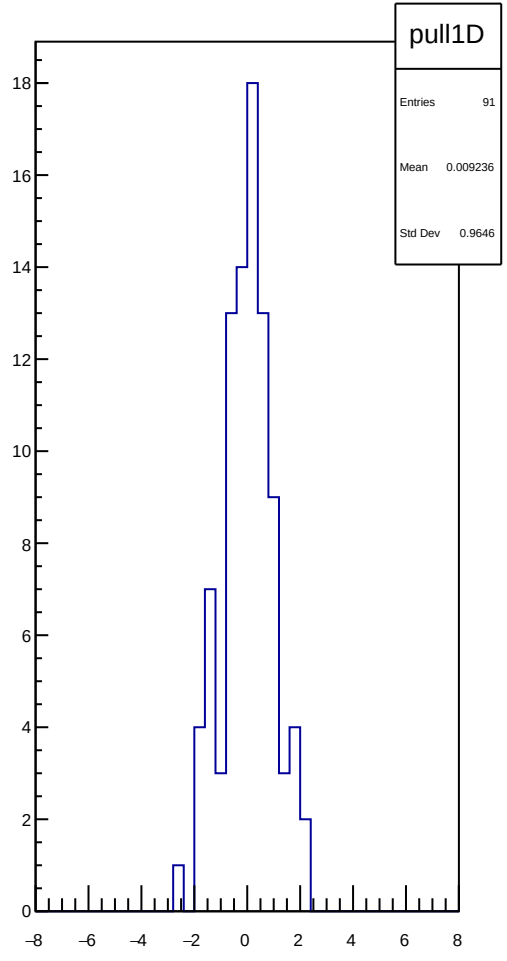

reg_asym_sam_48_avg_rms vs run
χ^2 / ndf 6952 / 90
p0 152.9 ± 0.1158
240
220
200
180
160
140

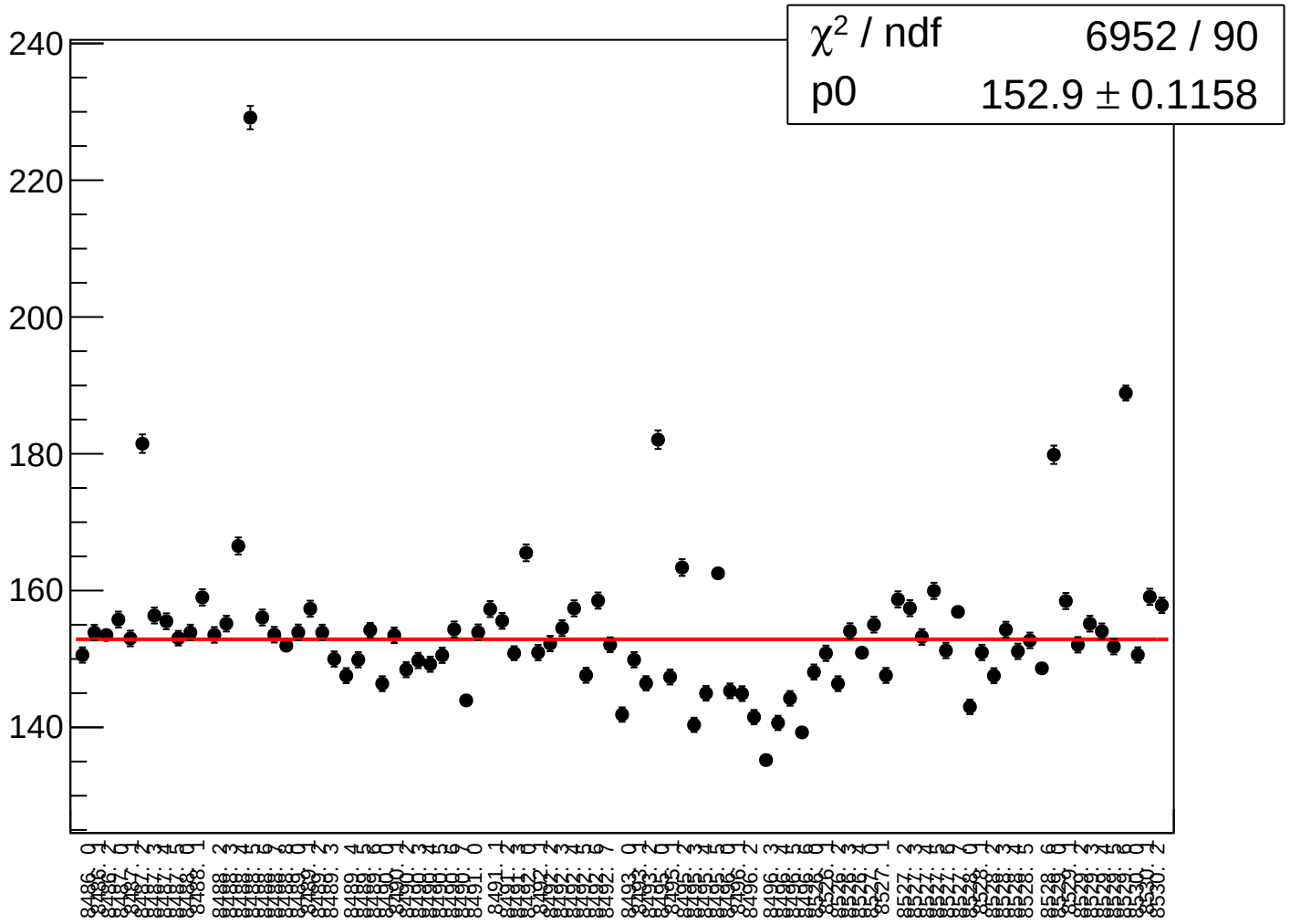

asym_sam_48_avg_reg_correction_mean vs run
χ² / ndf 74.83 / 90
p0 −5513 ± 2103
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 143.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

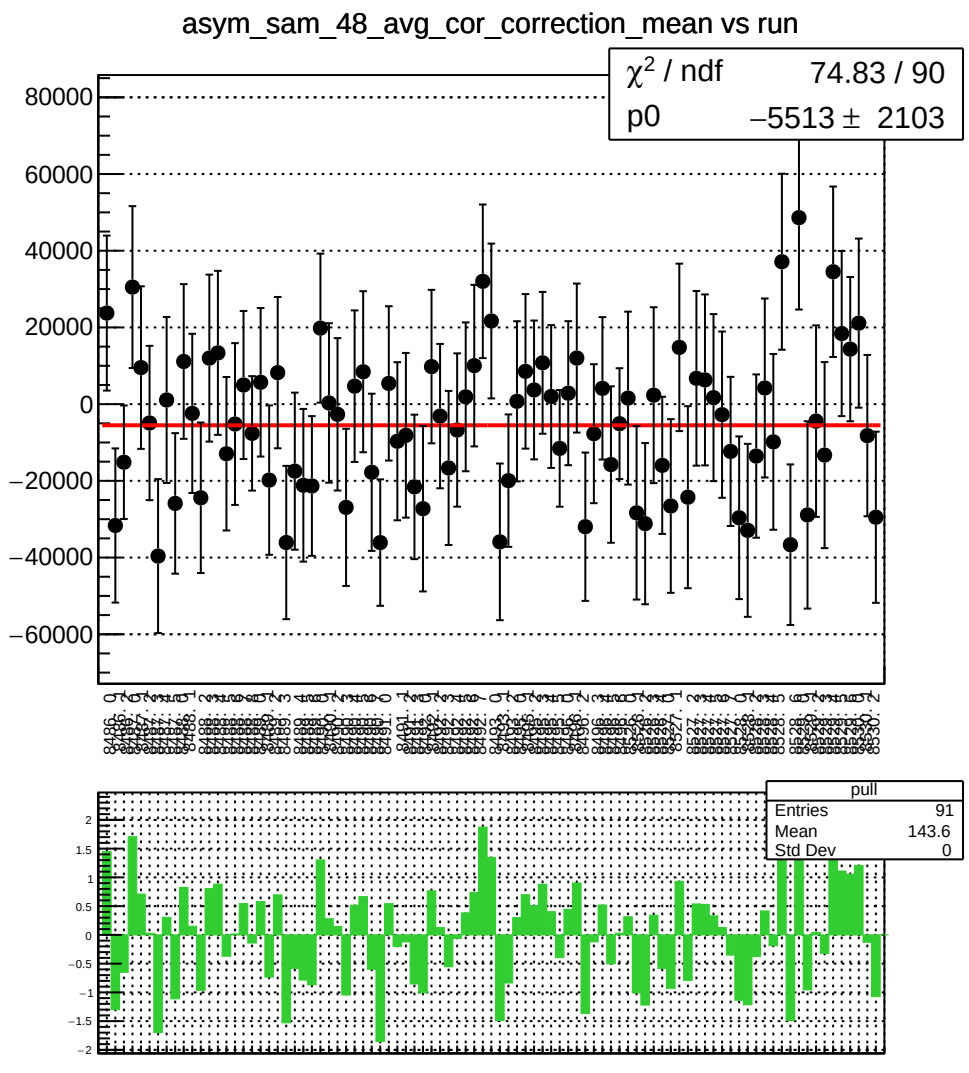

pull1D
Entries 91
Mean 0.01566
Std Dev 0.9067
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

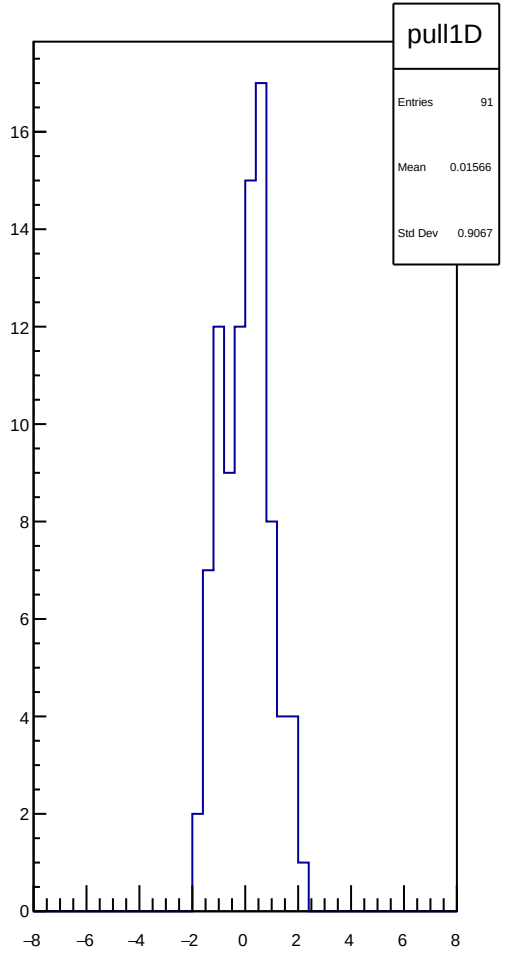

asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 9309 / 90
p0 1962 ± 1.487
2400
2300
2200
2100
2000
1900
1800
1700

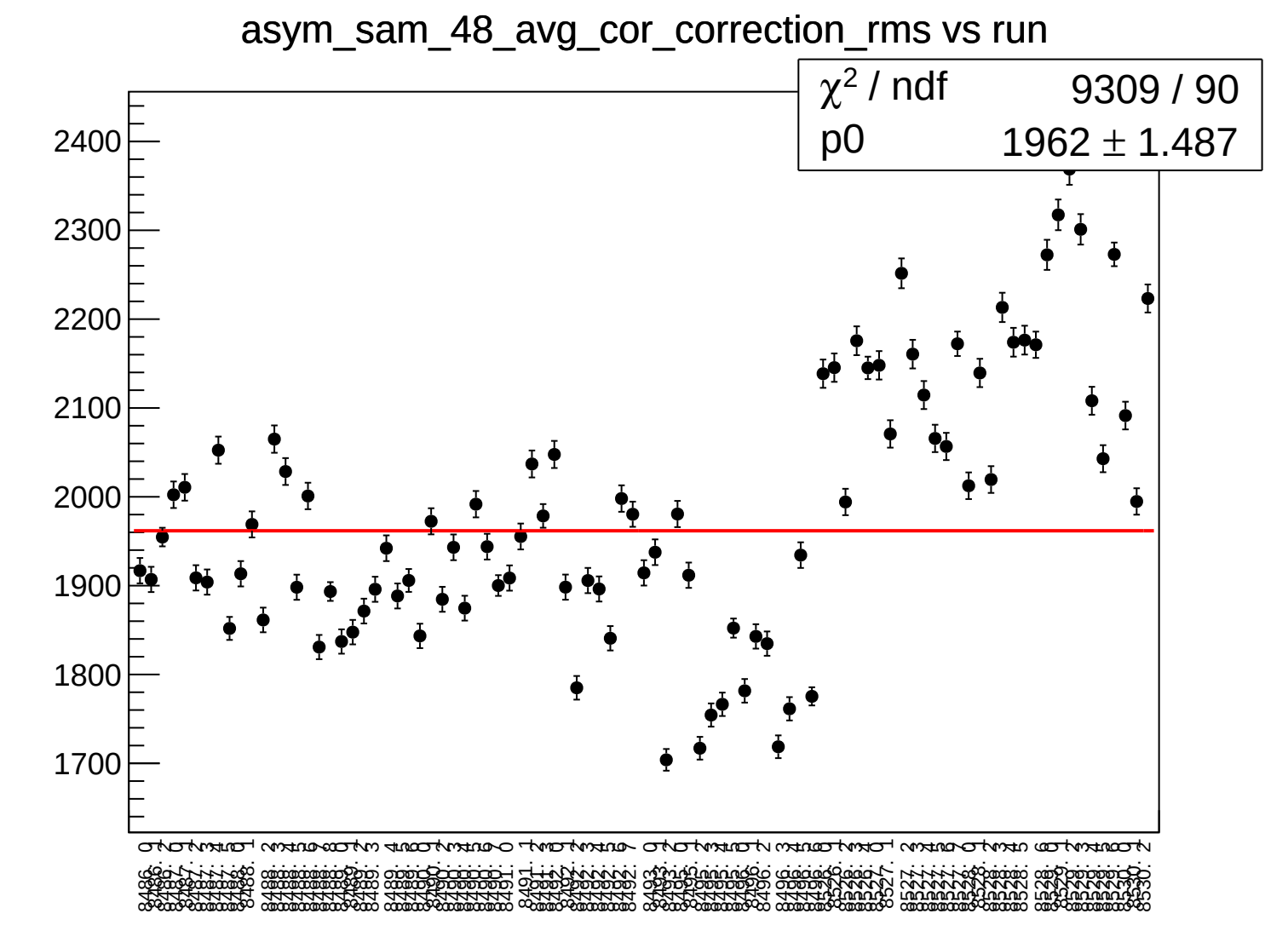

cor_asym_sam_48_avg_mean vs run
χ² / ndf 84.67 / 90
p0 473.8 ± 163.8
6000
4000
2000
0
−2000
−4000
pull
Entries 91
Mean −618.5
Std Dev 0
2
1
0
−1
−2

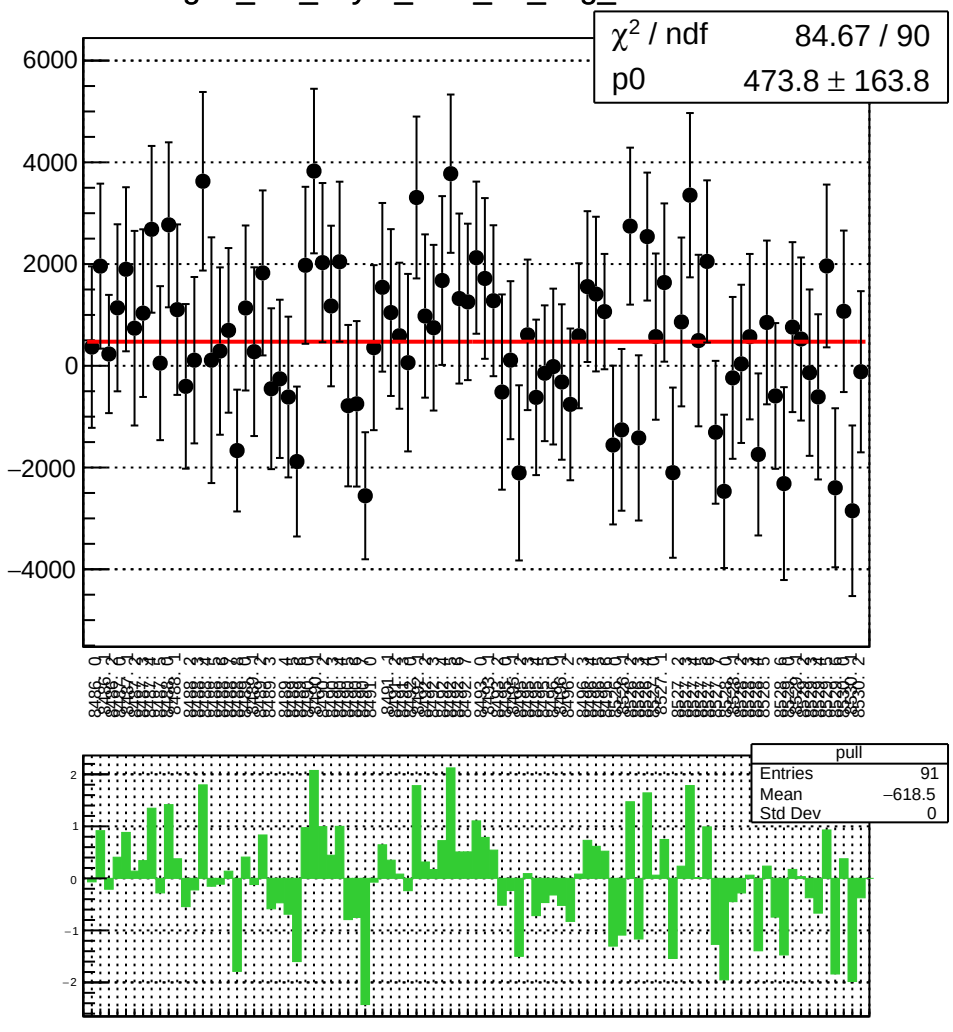

pull1D
Entries 91
Mean 0.009236
Std Dev 0.9646
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

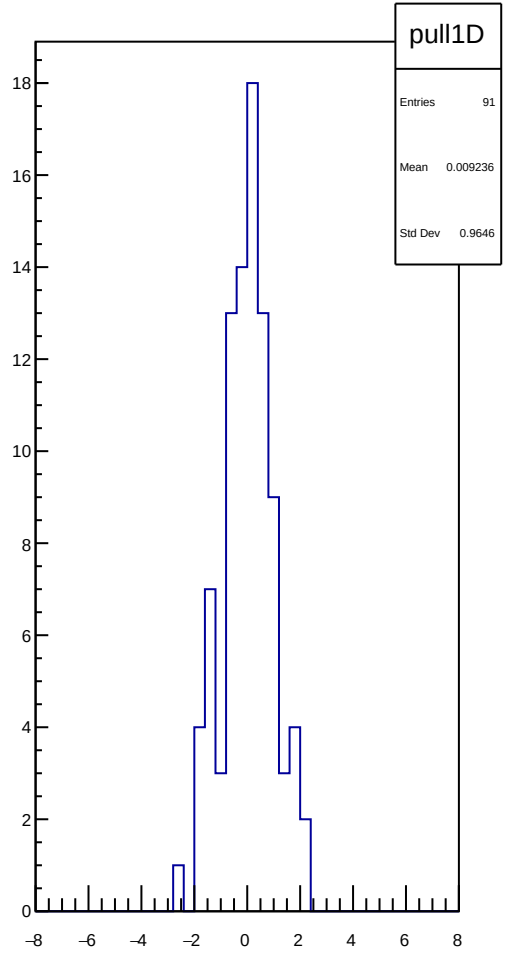

cor_asym_sam_48_avg_rms vs run
χ^2 / ndf 6952 / 90
p0 152.9 ± 0.1158
240
220
200
180
160
140


asym_sam_48_avg_cor_correction_mean vs run
χ² / ndf 74.83 / 90
p0 −5513 ± 2103
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 143.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 91
Mean 0.01566
Std Dev 0.9067
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 9309 / 90
p0 1962 ± 1.487
2400
2300
2200
2100
2000
1900
1800
1700


eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 84.67 / 90
p0 473.8 ± 163.8
6000
4000
2000
0
−2000
−4000
pull
Entries 91
Mean −618.5
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 91
Mean 0.009236
Std Dev 0.9646
18
16
14
12
10
8
6
4
2
0
−8
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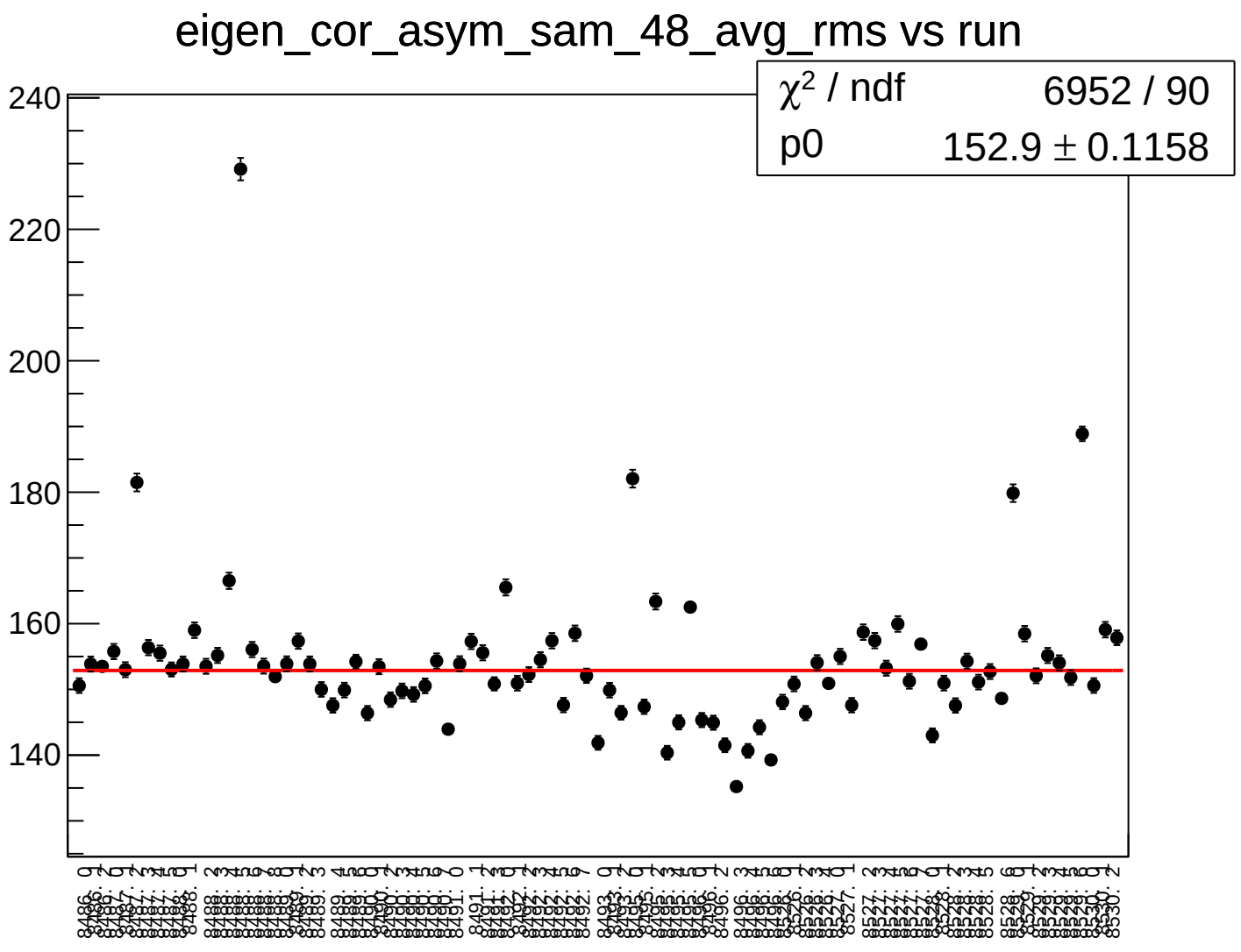
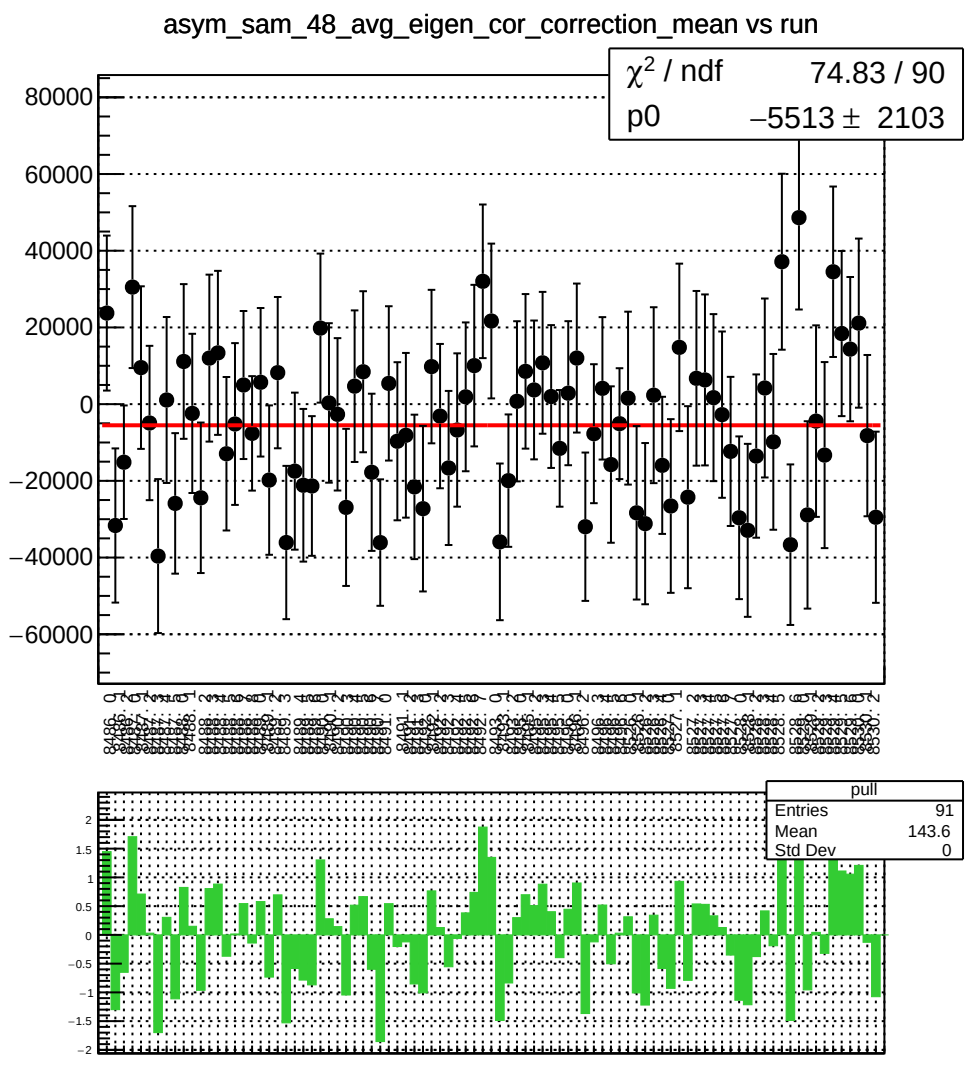
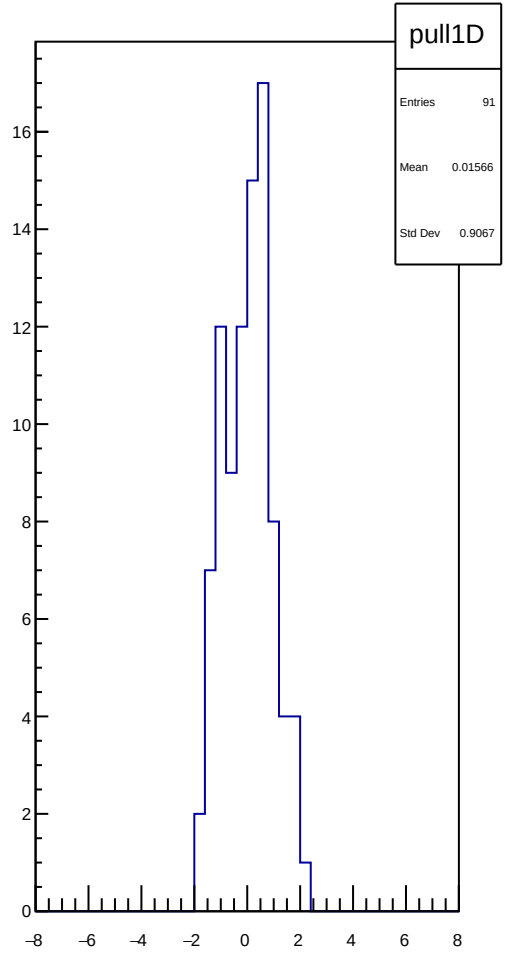
2
4
6
8


eigen_cor_asym_sam_48_avg_rms vs run
χ² / ndf 6952 / 90
p0 152.9 ± 0.1158
240
220
200
180
160
140


asym_sam_48_avg_eigen_cor_correction_mean vs run
χ² / ndf 74.83 / 90
p0 −5513 ± 2103
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 143.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 91
Mean 0.01566
Std Dev 0.9067
16
14
12
10
8
6
4
2
0
−8
−6
−4
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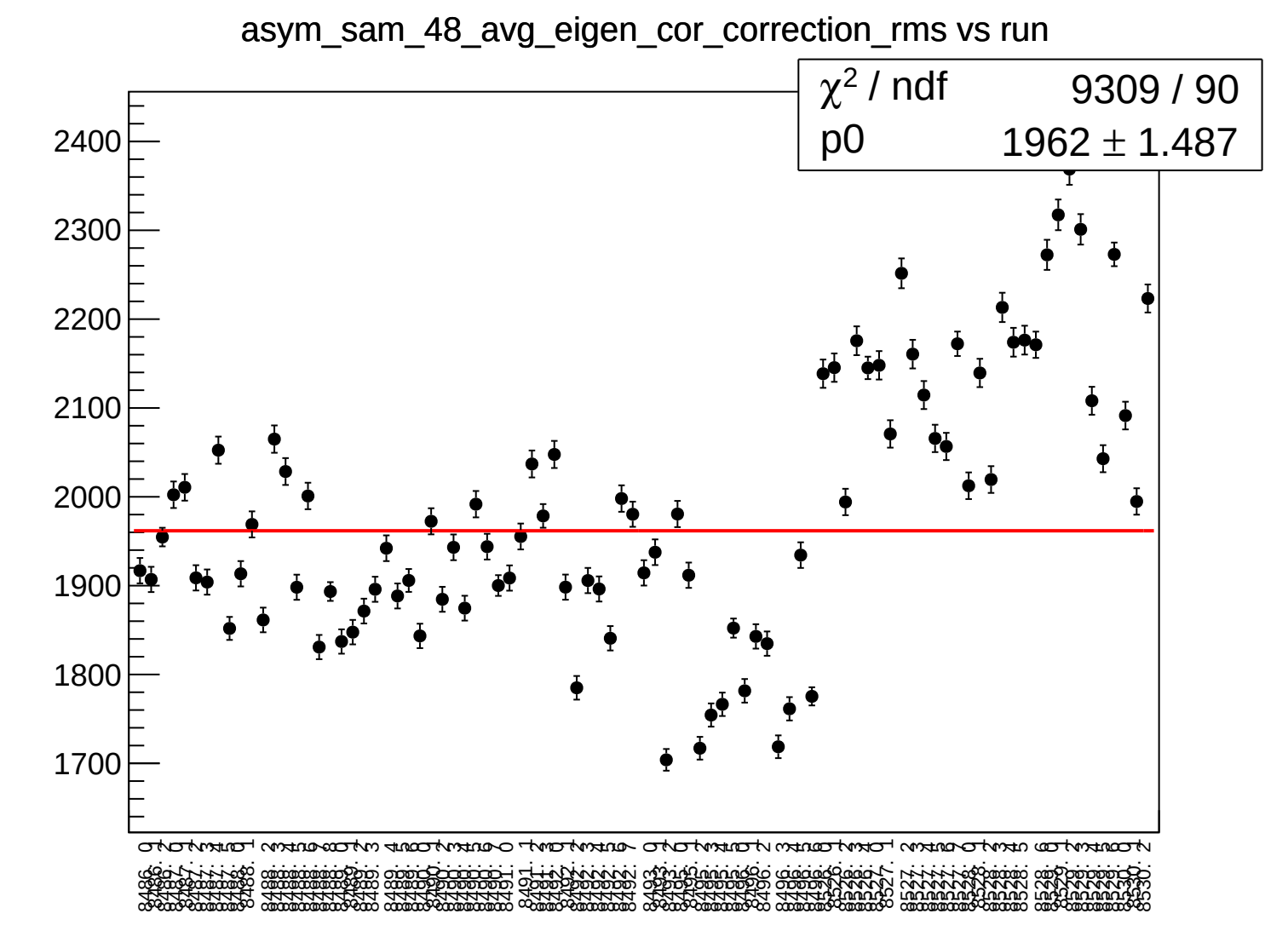
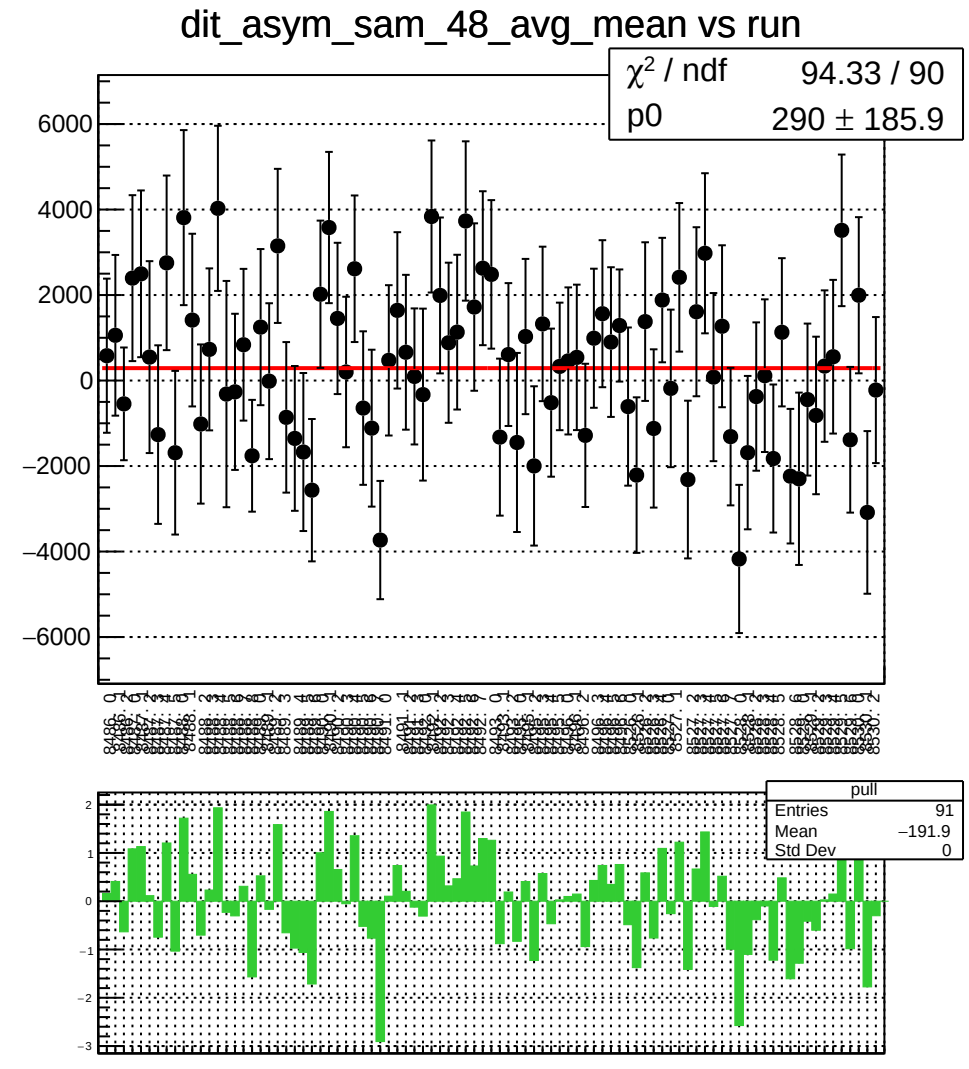
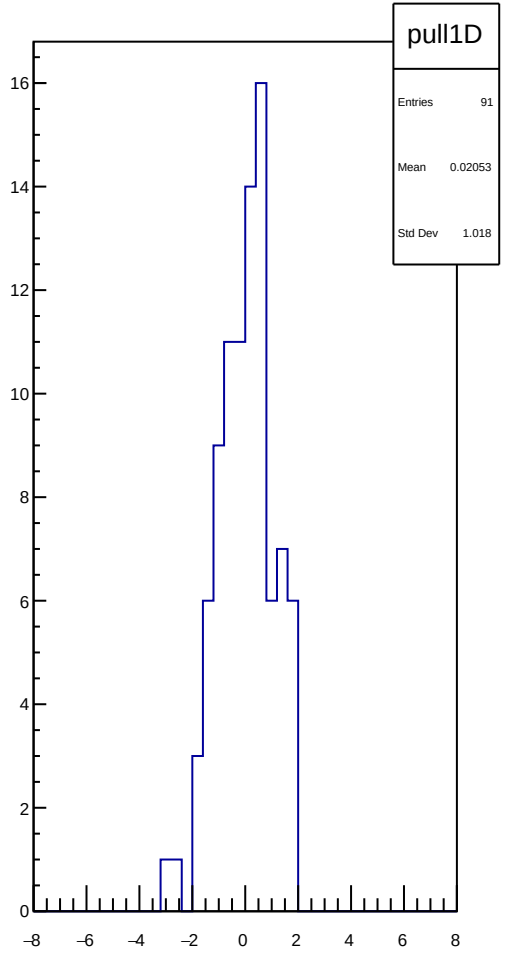
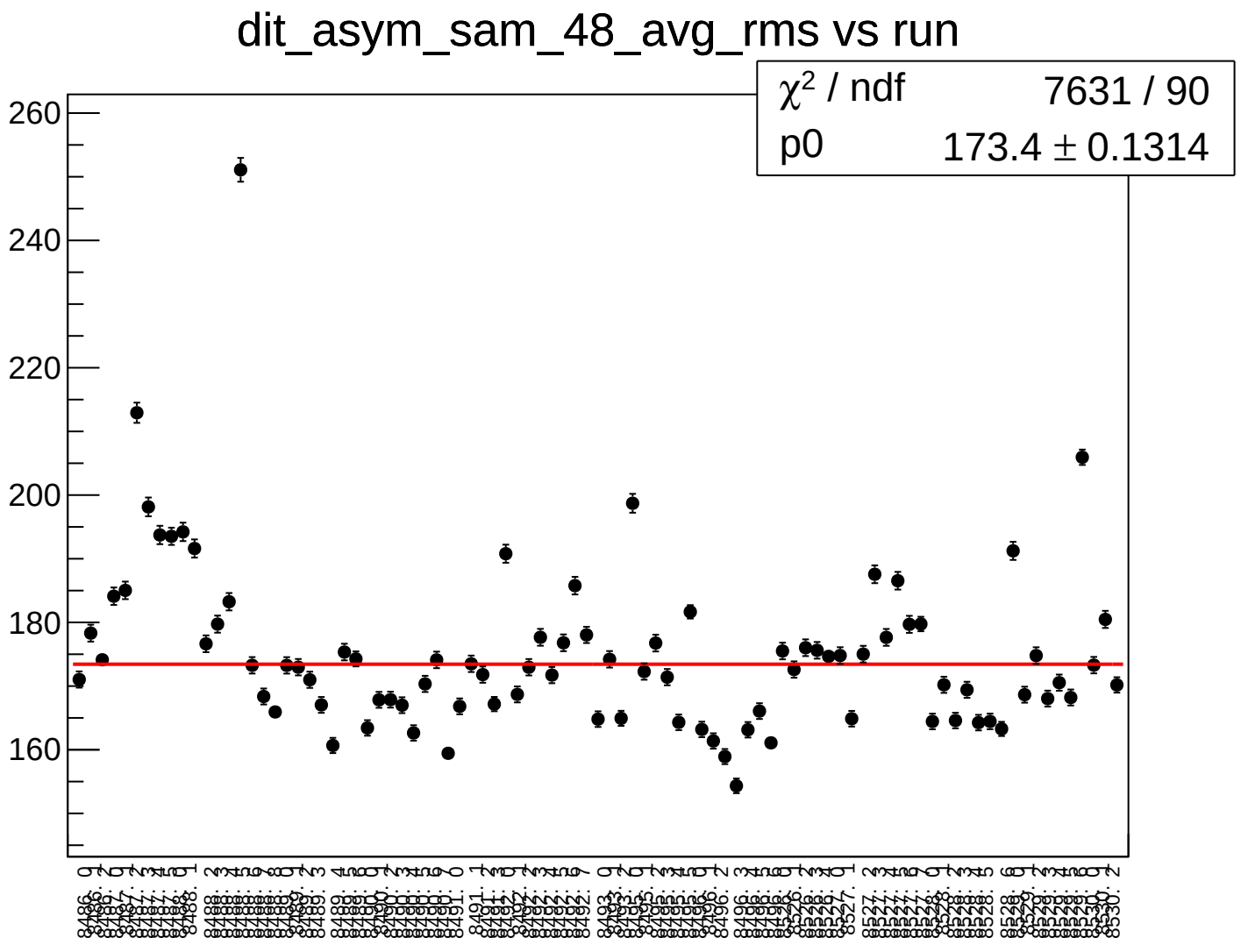
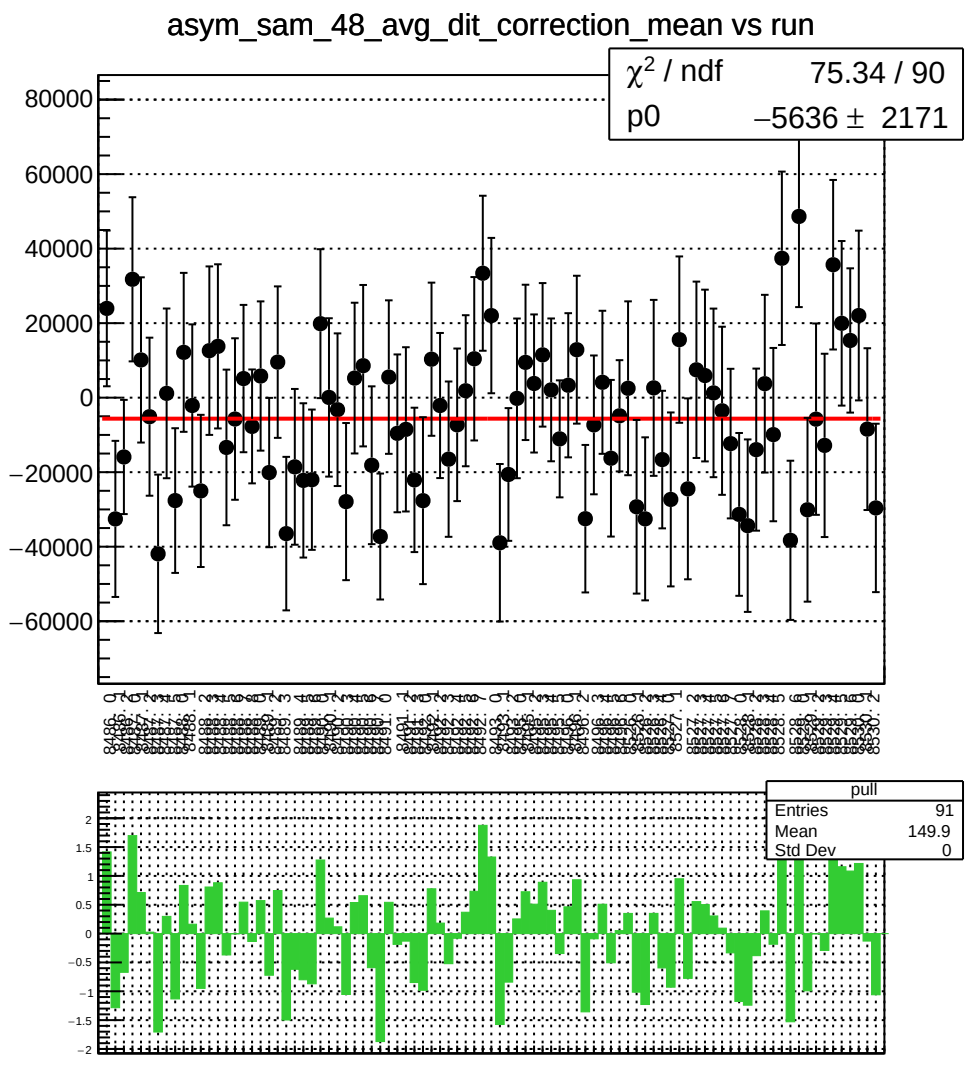
2
4
6
8

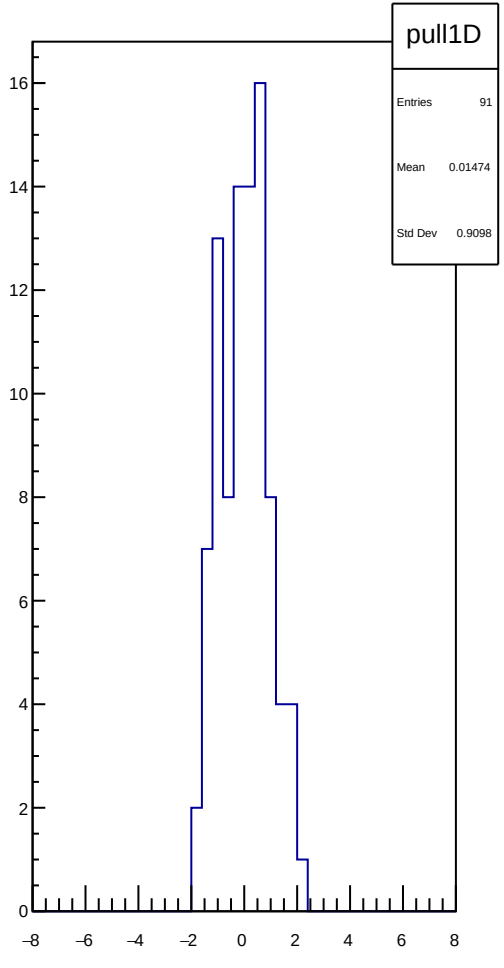

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 9309 / 90
p0 1962 ± 1.487
2400
2300
2200
2100
2000
1900
1800
1700

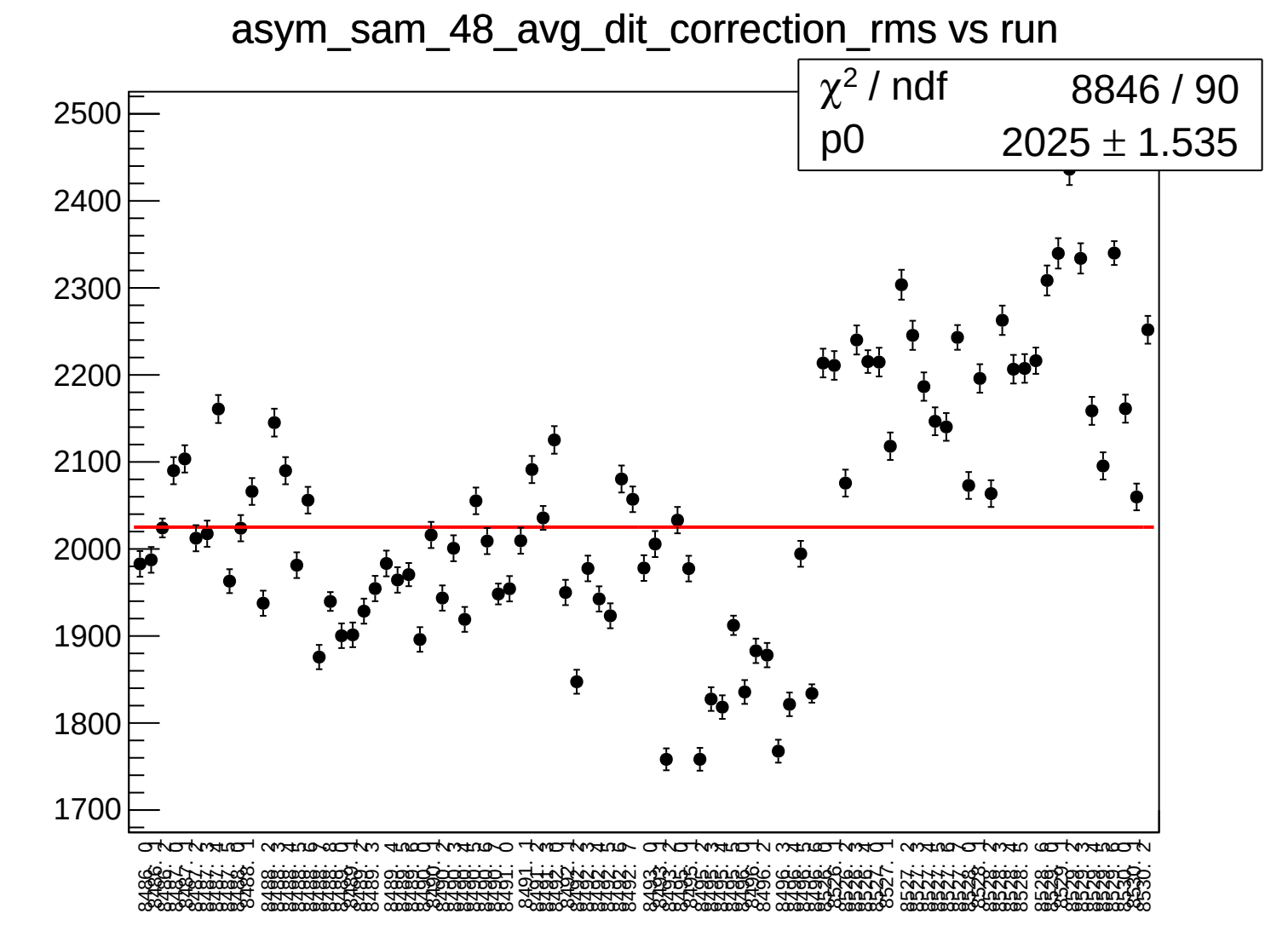

dit_asym_sam_48_avg_mean vs run
χ² / ndf 94.33 / 90
p0 290 ± 185.9
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean −191.9
Std Dev 0
2
1
0
−1
−2
−3

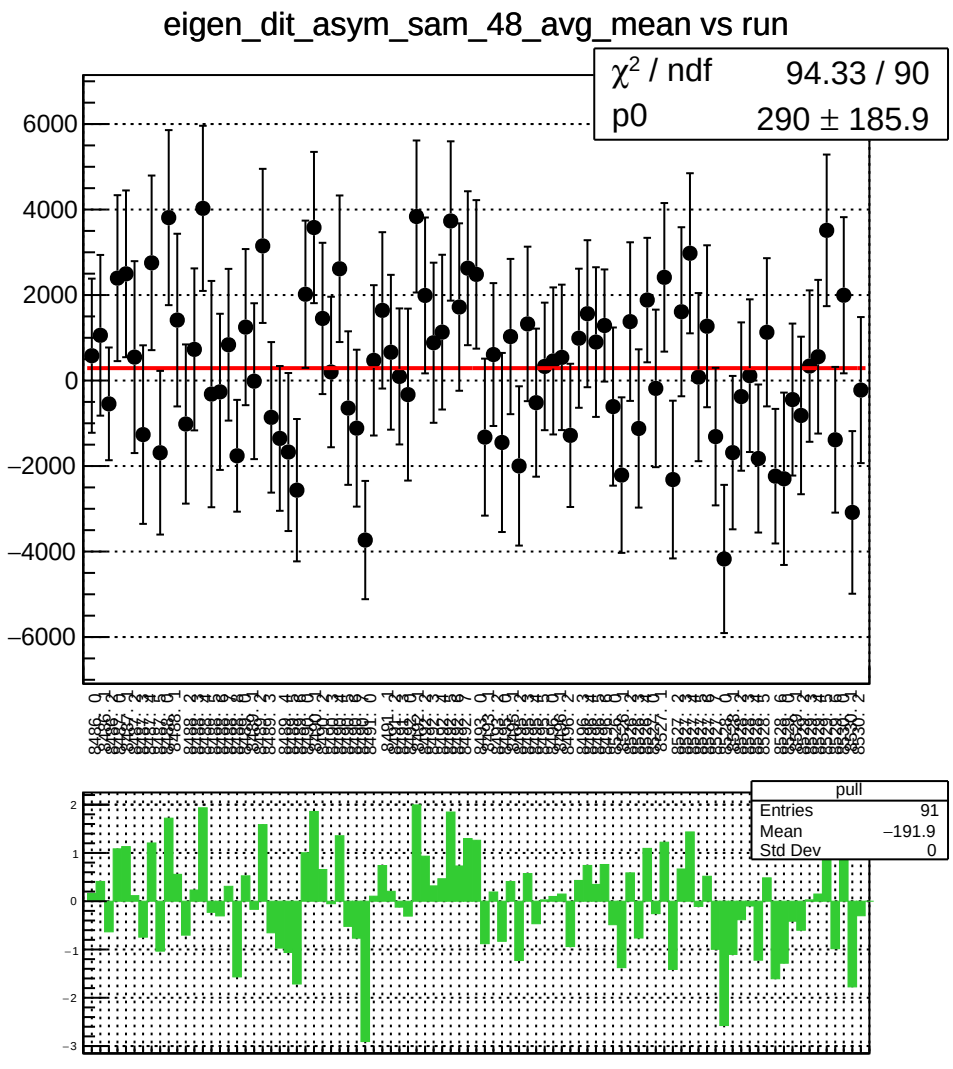

pull1D
Entries 91
Mean 0.02053
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

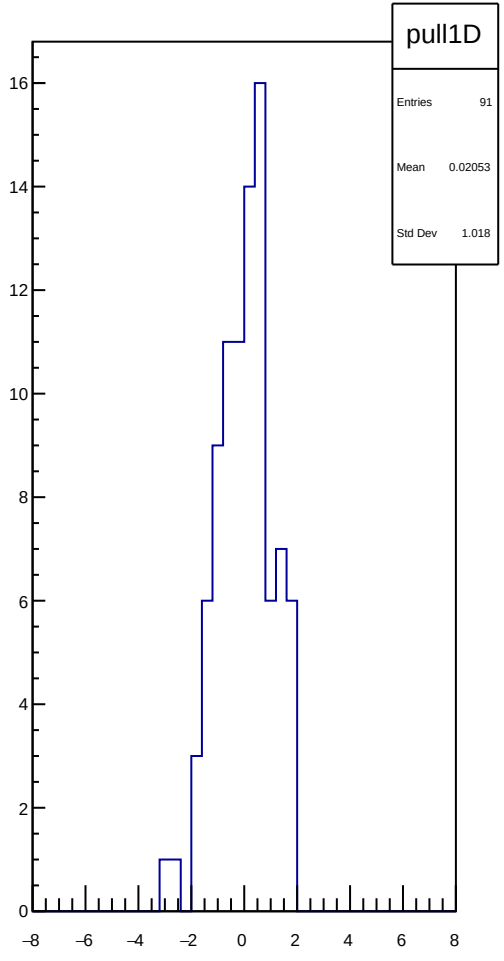

dit_asym_sam_48_avg_rms vs run
χ² / ndf 7631 / 90
p0 173.4 ± 0.1314
260
240
220
200
180
160

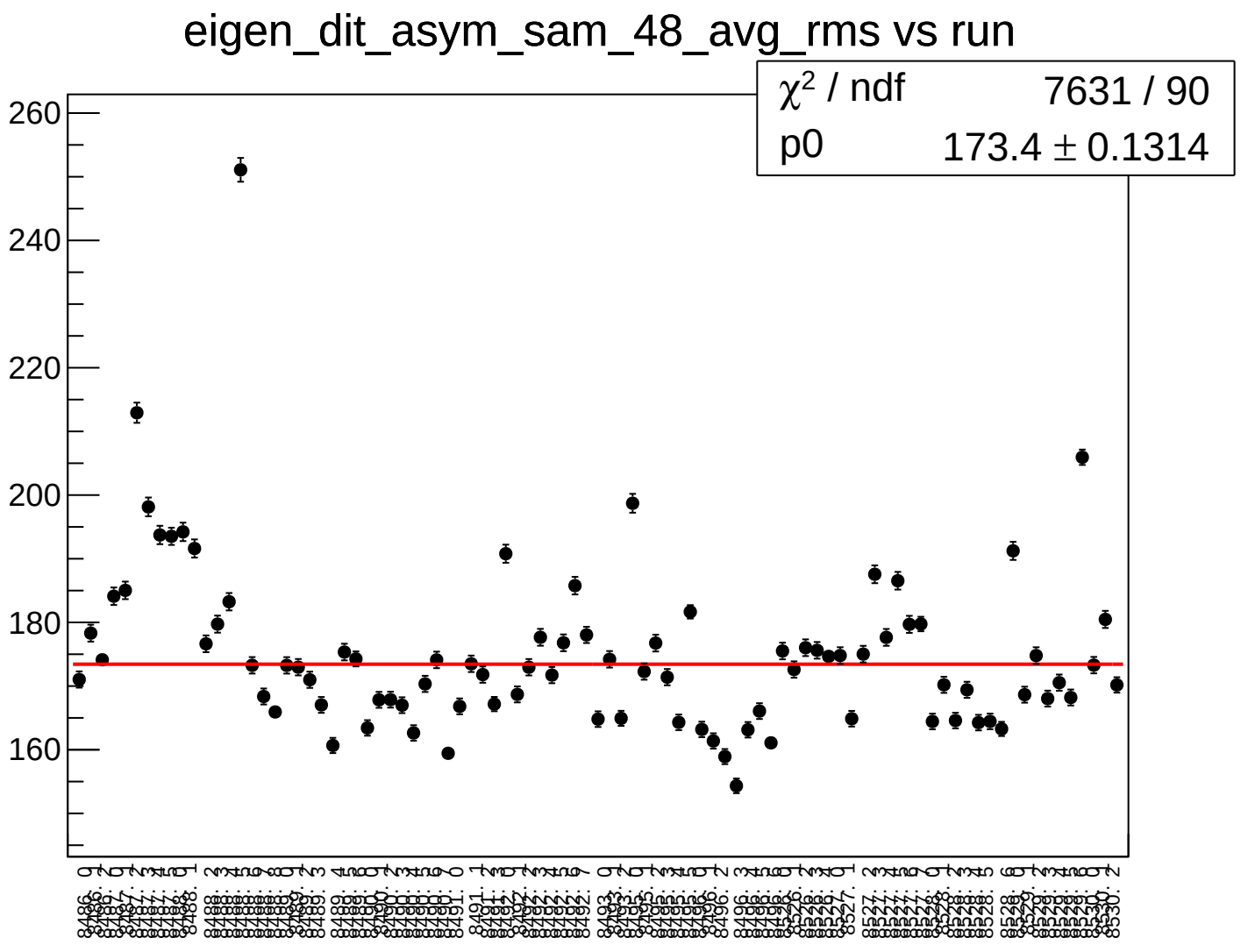

asym_sam_48_avg_dit_correction_mean vs run
χ² / ndf 75.34 / 90
p0 −5636 ± 2171
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 149.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

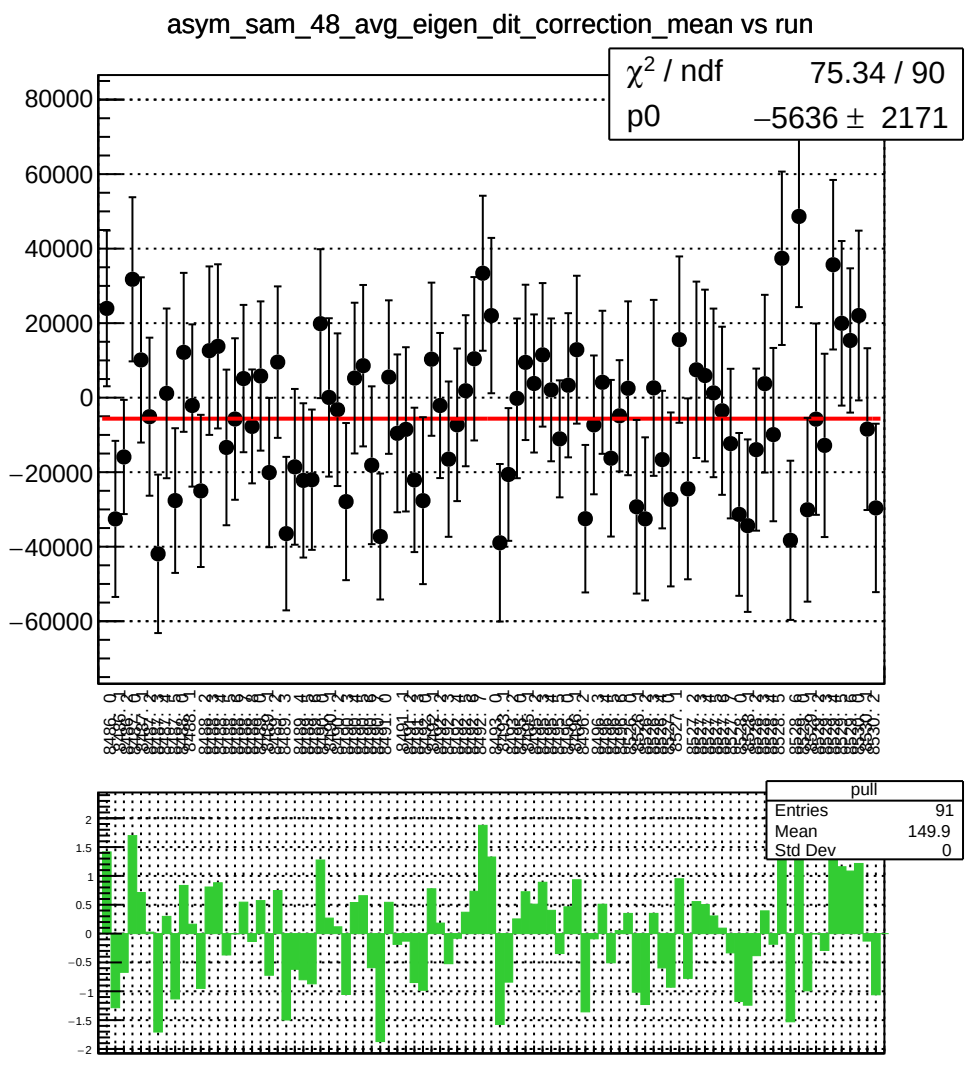

pull1D
Entries 91
Mean 0.01474
Std Dev 0.9098
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

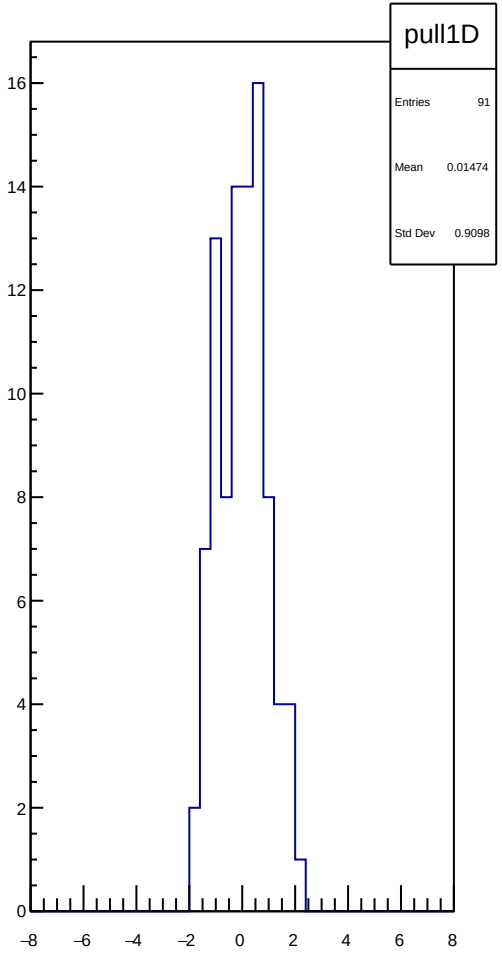

asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 8846 / 90
p0 2025 ± 1.535
2500
2400
2300
2200
2100
2000
1900
1800
1700

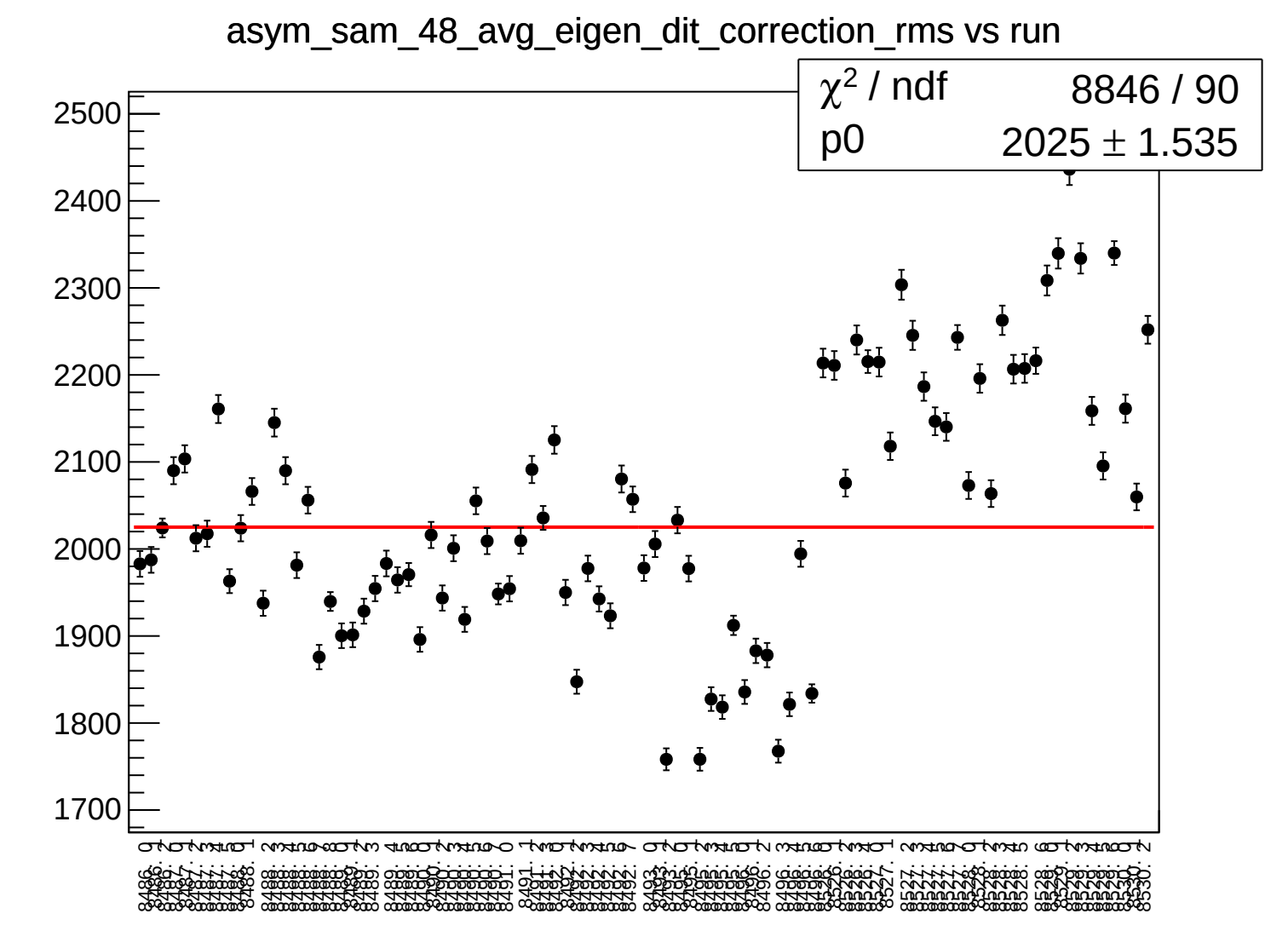

eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 94.33 / 90
p0 290 ± 185.9
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean −191.9
Std Dev 0
2
1
0
−1
−2
−3

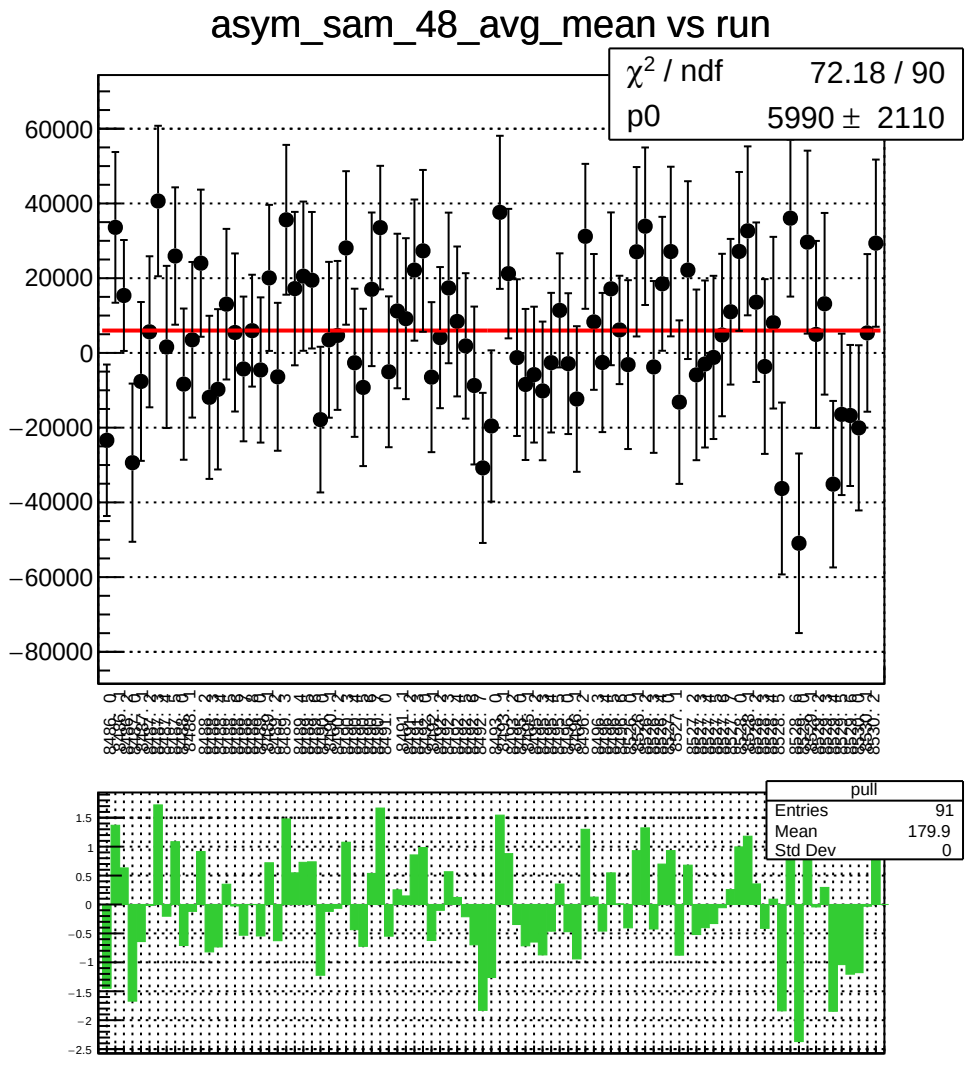

pull1D
Entries 91
Mean 0.02053
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

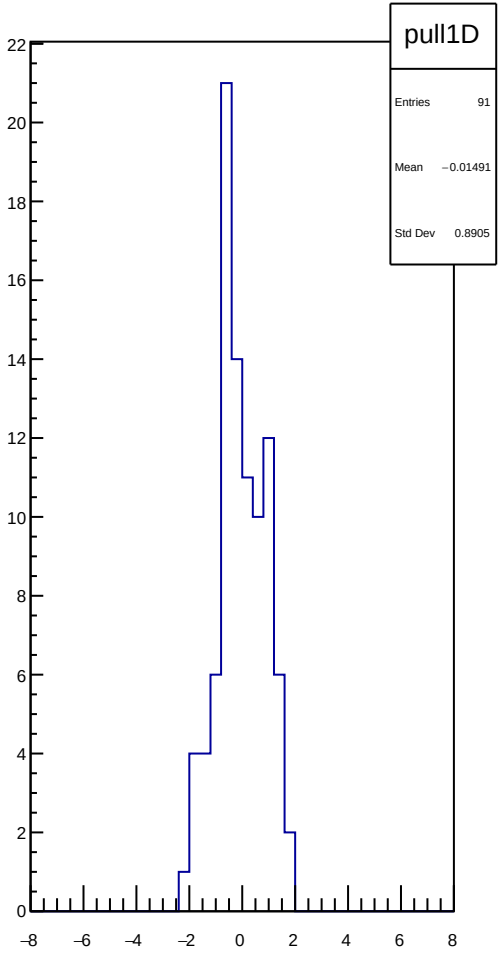

eigen_dit_asym_sam_48_avg_rms vs run
χ² / ndf 7631 / 90
p0 173.4 ± 0.1314
260
240
220
200
180
160

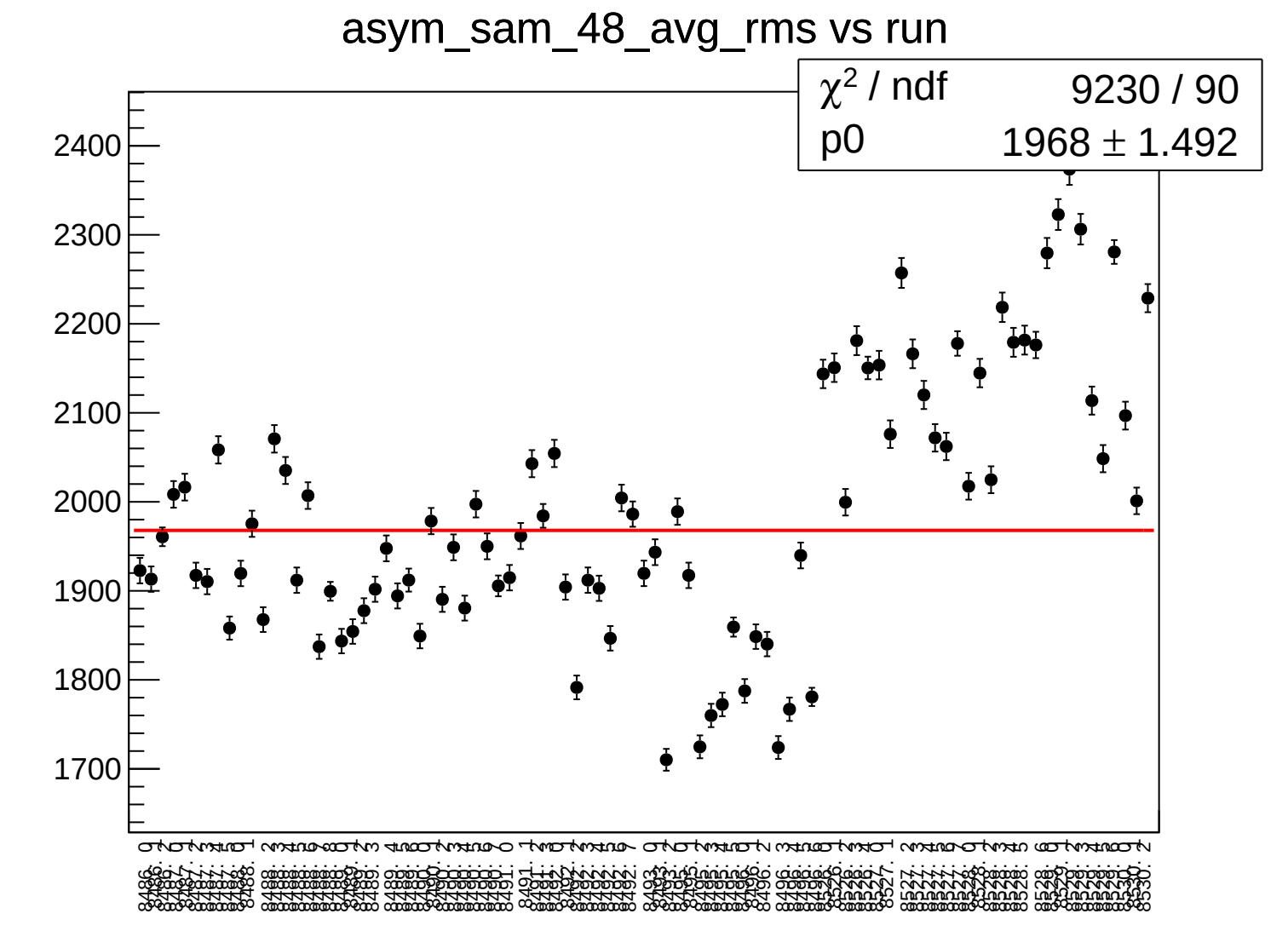

asym_sam_48_avg_eigen_dit_correction_mean vs run
χ² / ndf 75.34 / 90
p0 −5636 ± 2171
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 149.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

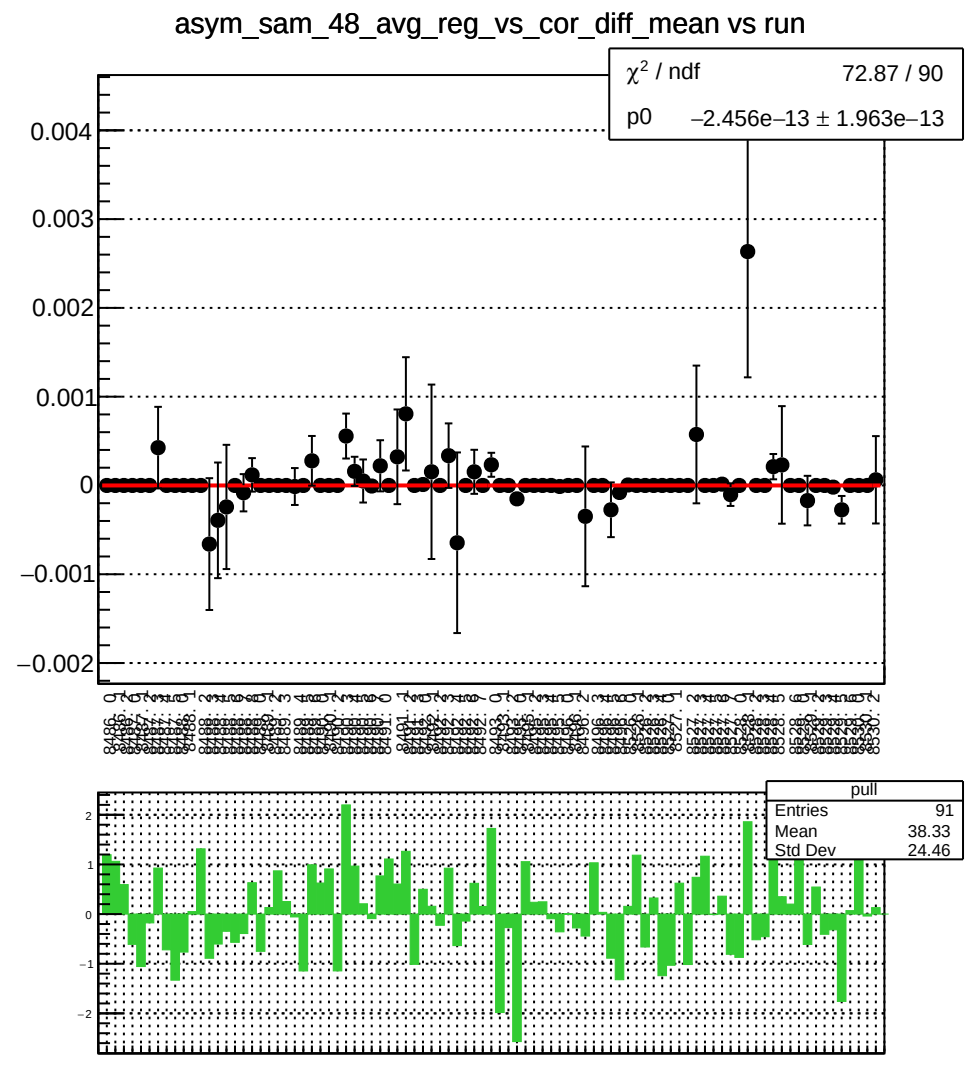

pull1D
Entries 91
Mean 0.01474
Std Dev 0.9098
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

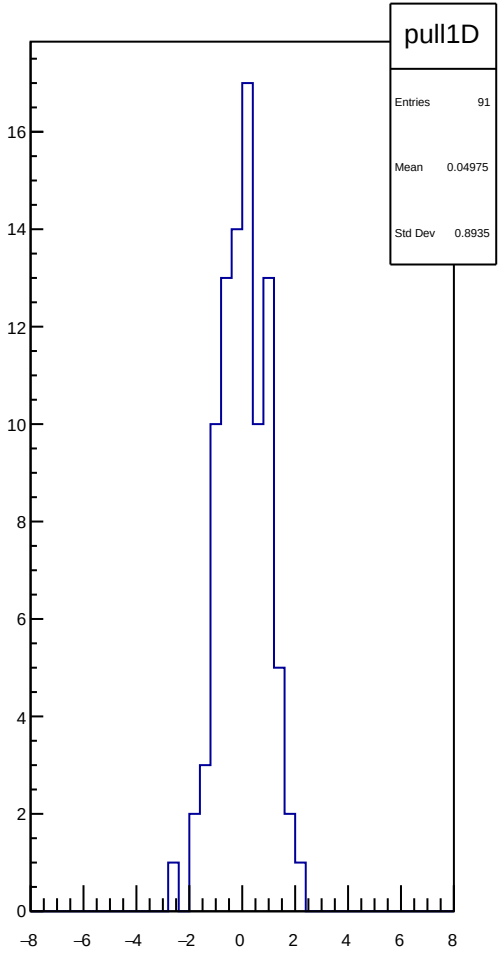

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 8846 / 90
p0 2025 ± 1.535
2500
2400
2300
2200
2100
2000
1900
1800
1700

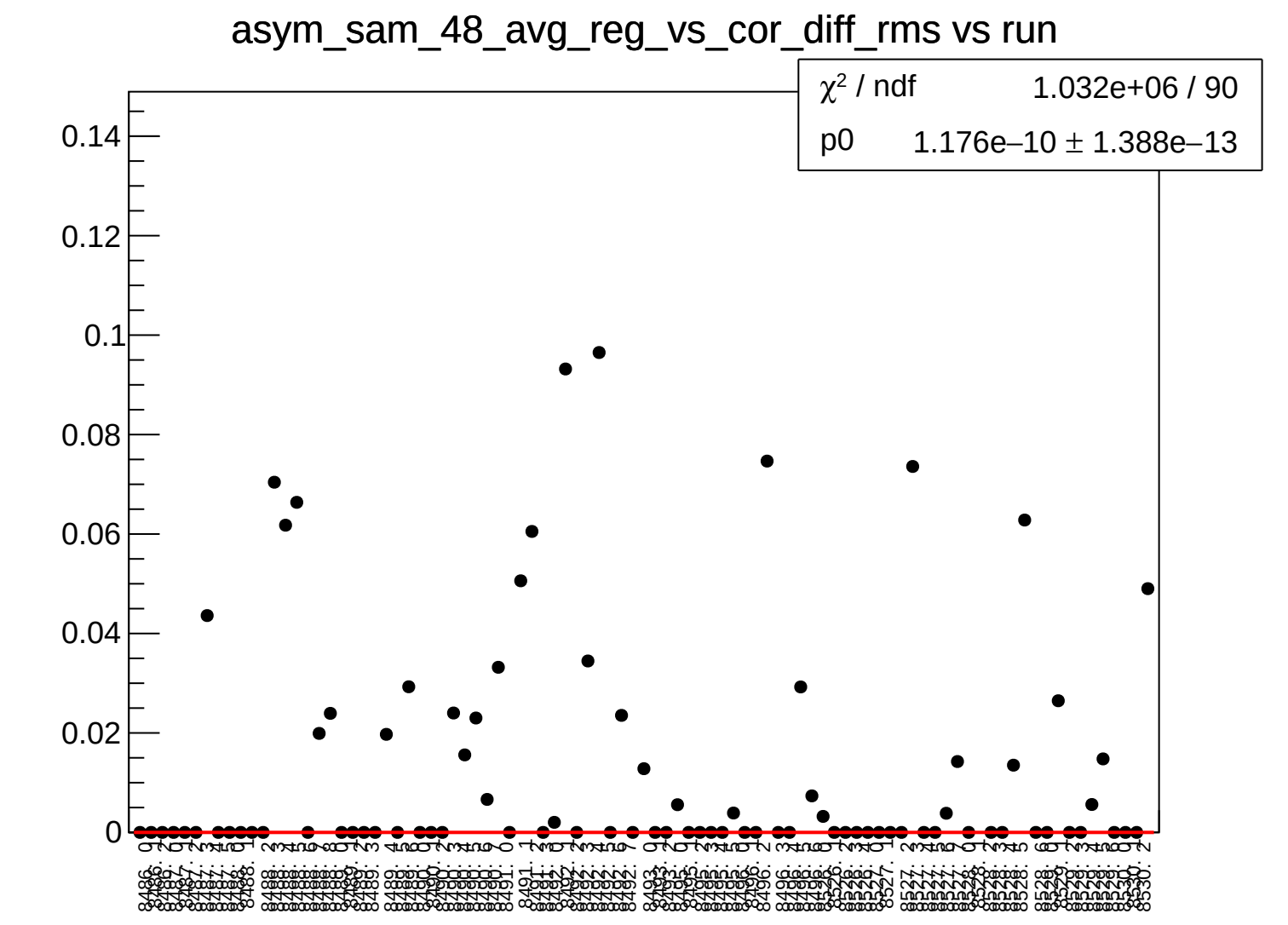

asym_sam_48_avg_mean vs run
χ² / ndf 72.18 / 90
p0 5990 ± 2110
pull
Entries 91
Mean 179.9
Std Dev 0

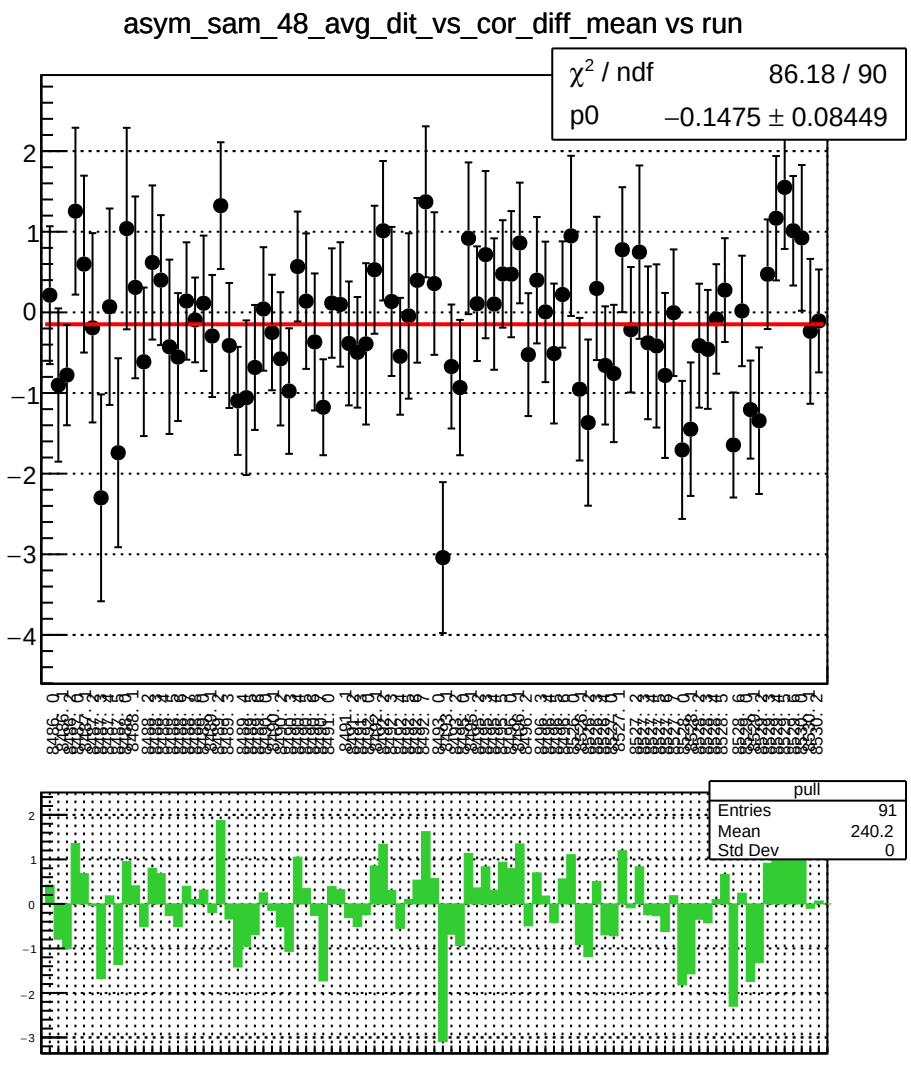

pull1D
Entries 91
Mean −0.01491
Std Dev 0.8905

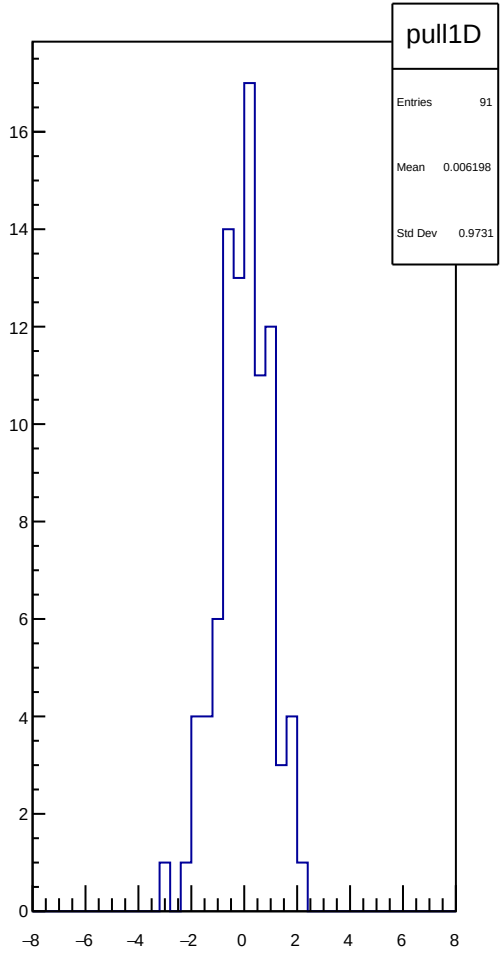

asym_sam_48_avg_rms vs run
χ^2 / ndf 9230 / 90
p0 1968 ± 1.492
2400
2300
2200
2100
2000
1900
1800
1700

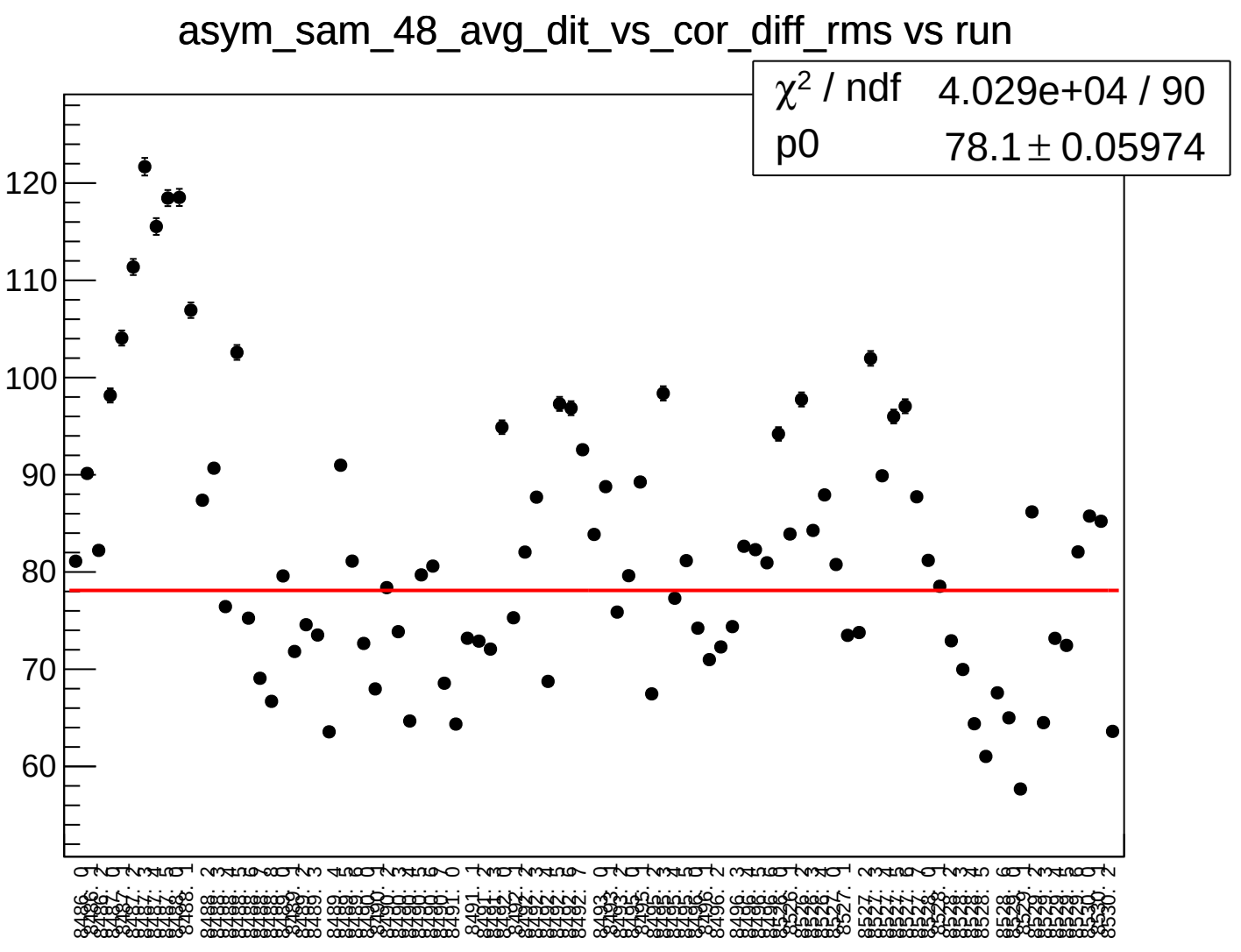

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 72.87 / 90
p0 −2.456e−13 ± 1.963e−13
0.004
0.003
0.002
0.001
0
−0.001
−0.002
pull
Entries 91
Mean 38.33
Std Dev 24.46
2
1
0
−1
−2

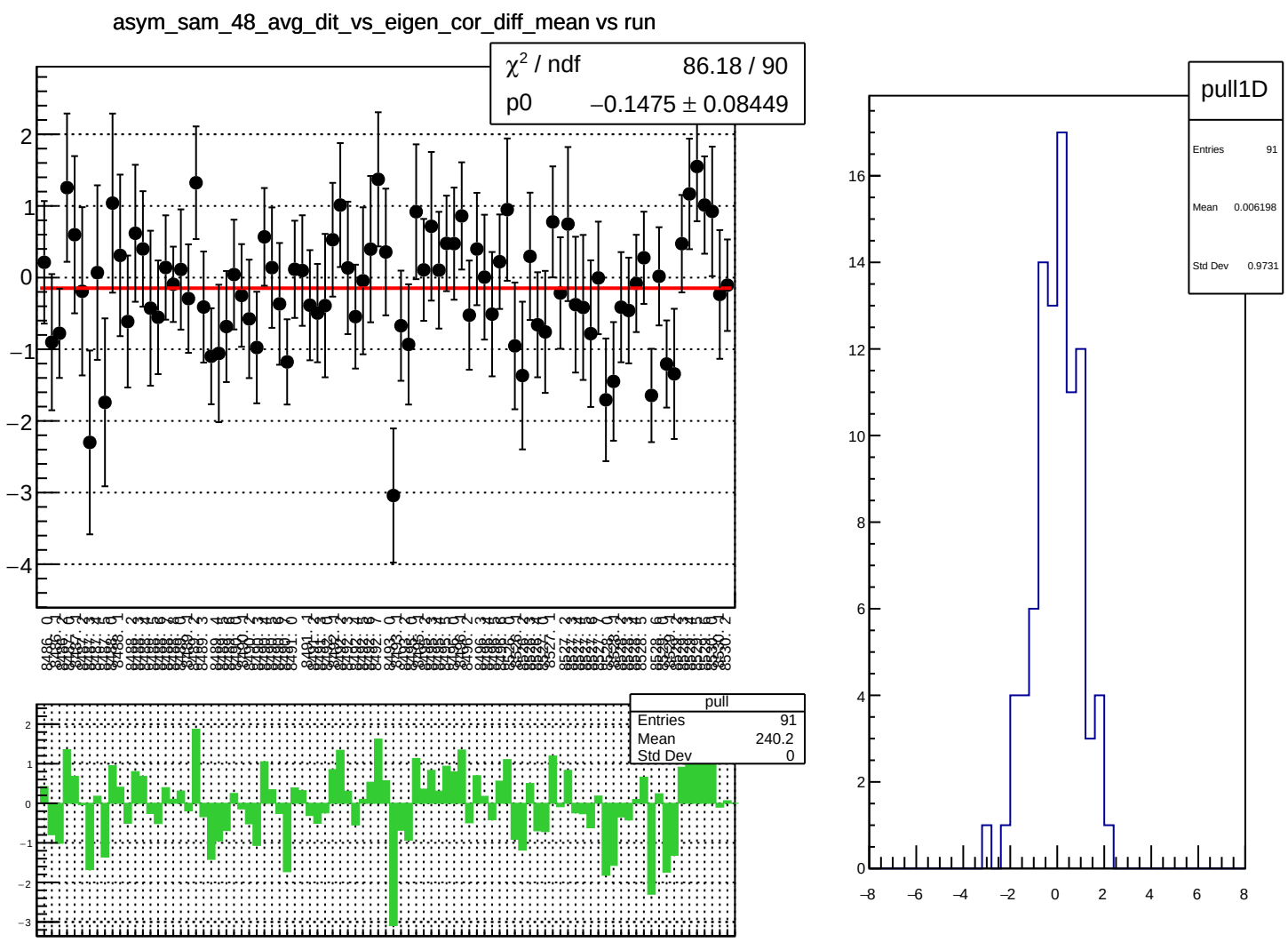

pull1D
Entries 91
Mean 0.04975
Std Dev 0.8935
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

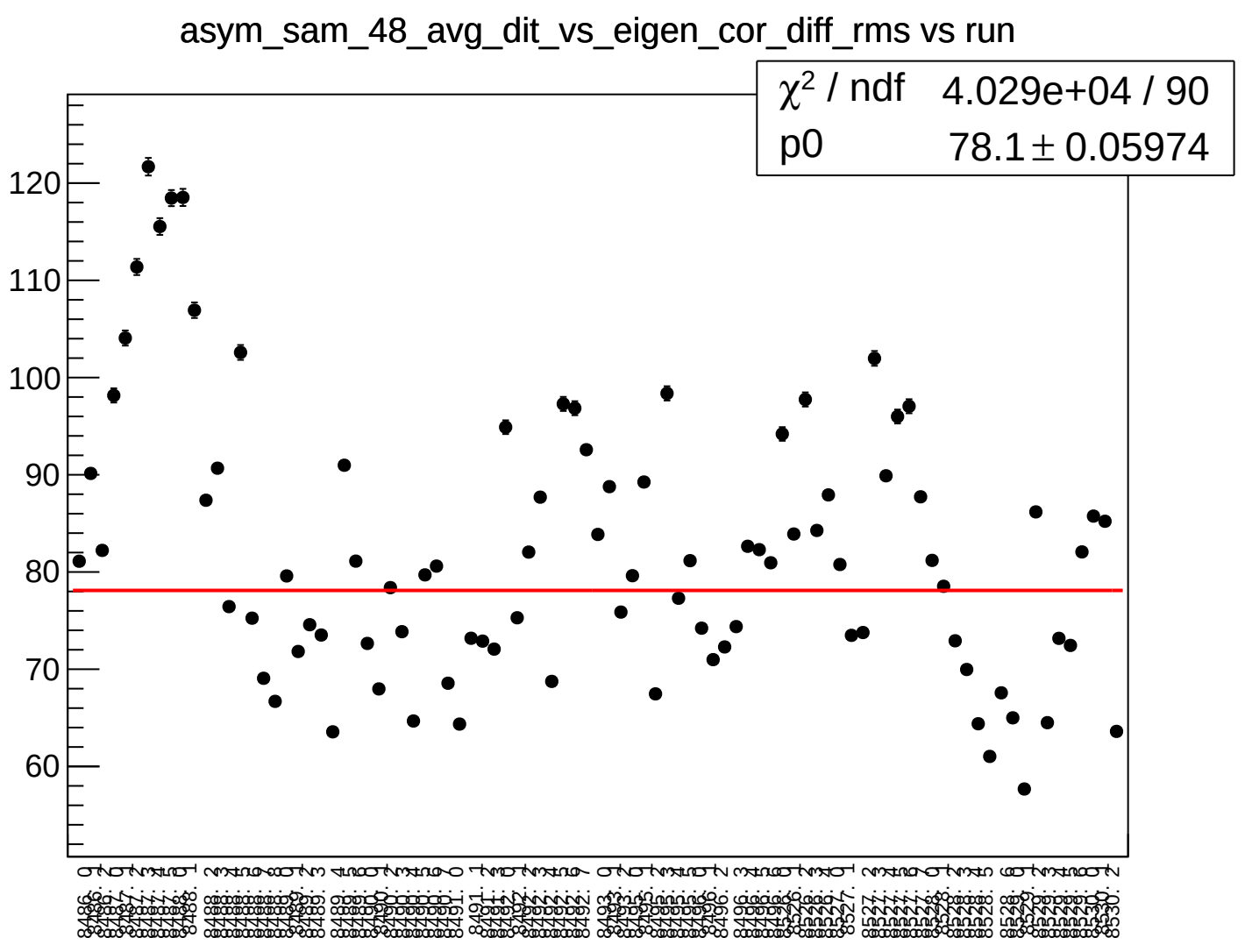

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.032e+06 / 90
p0 1.176e−10 ± 1.388e−13
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

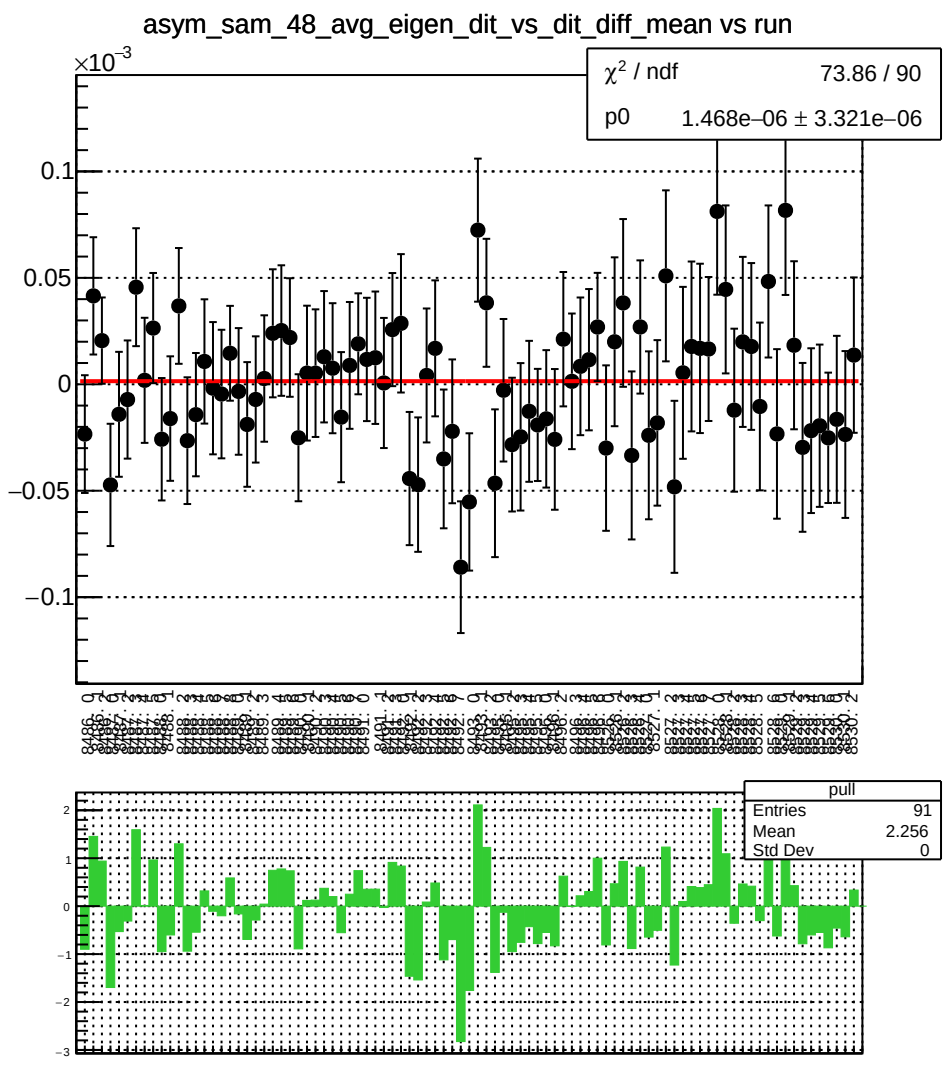

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 86.18 / 90
p0 −0.1475 ± 0.08449
pull
Entries 91
Mean 240.2
Std Dev 0

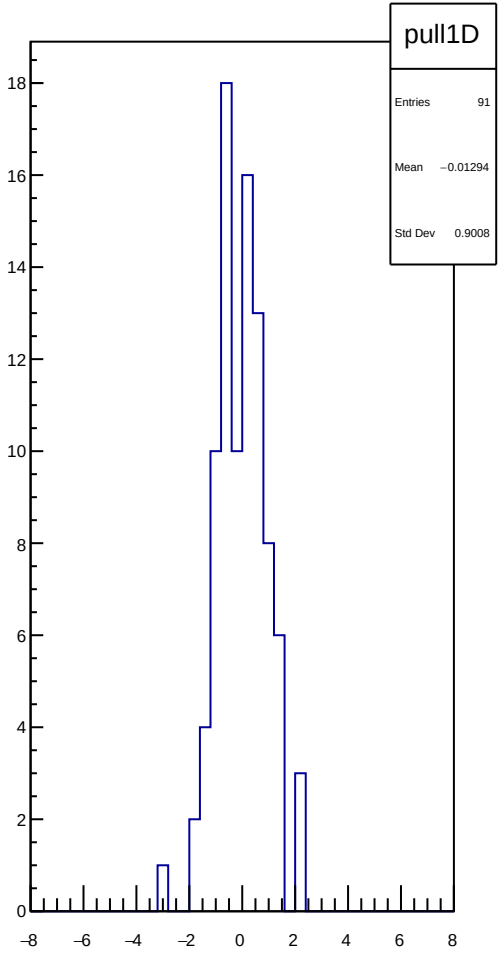

pull1D
Entries 91
Mean 0.006198
Std Dev 0.9731

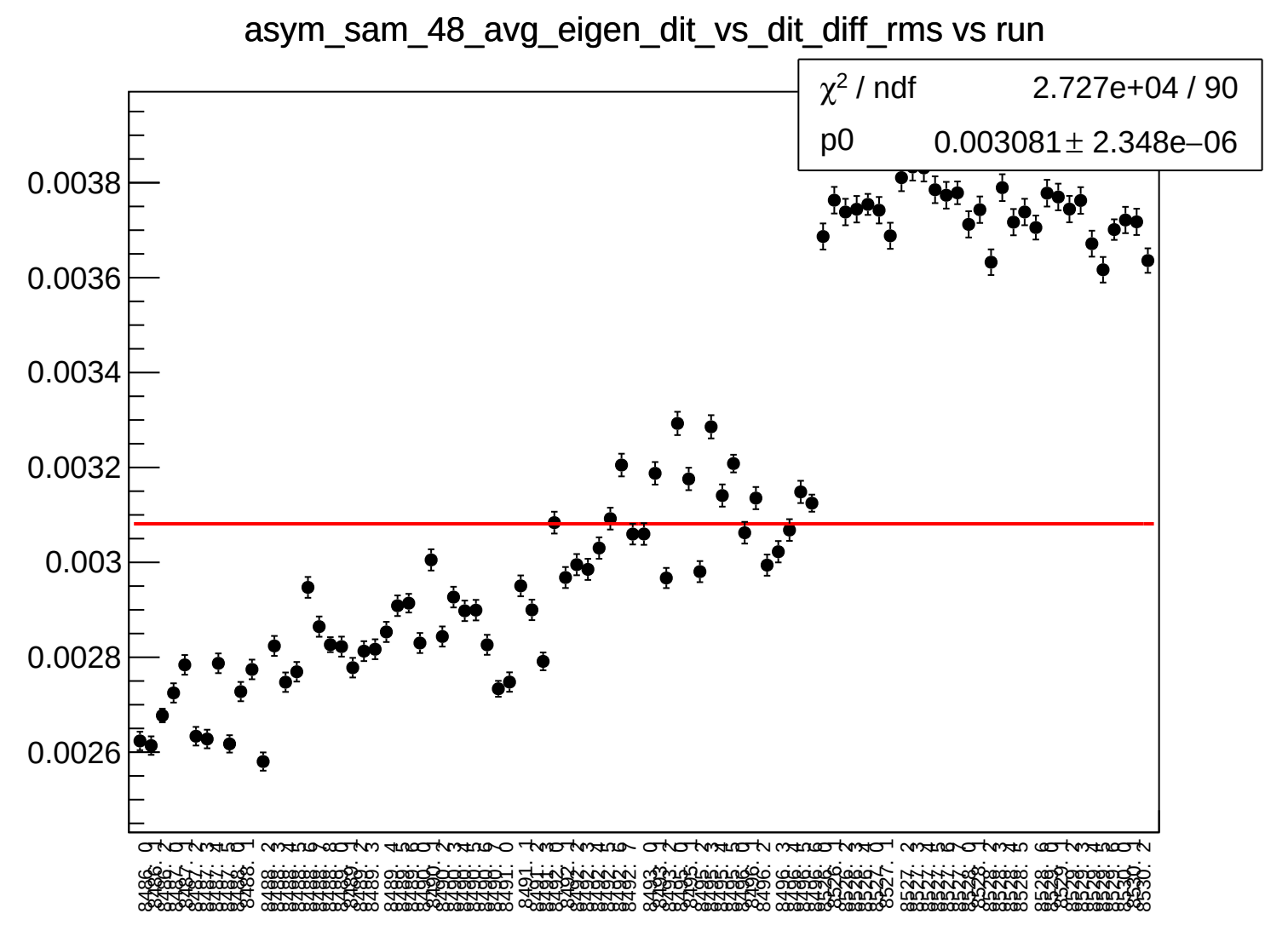

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.029e+04 / 90
p0 78.1 ± 0.05974
120
110
100
90
80
70
60

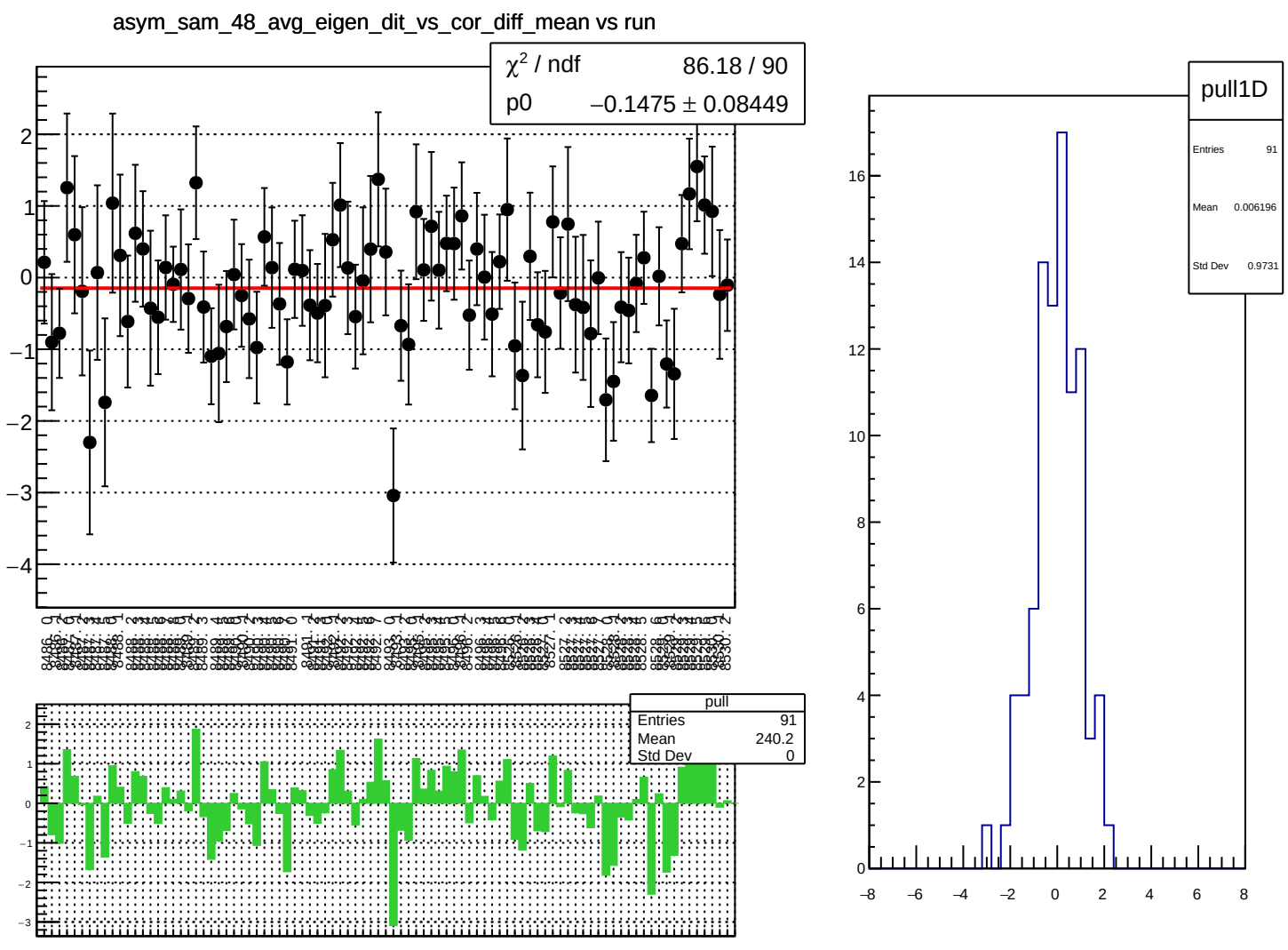

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.18 / 90
p0 −0.1475 ± 0.08449
pull
Entries 91
Mean 240.2
Std Dev 0
pull1D
Entries 91
Mean 0.006198
Std Dev 0.9731

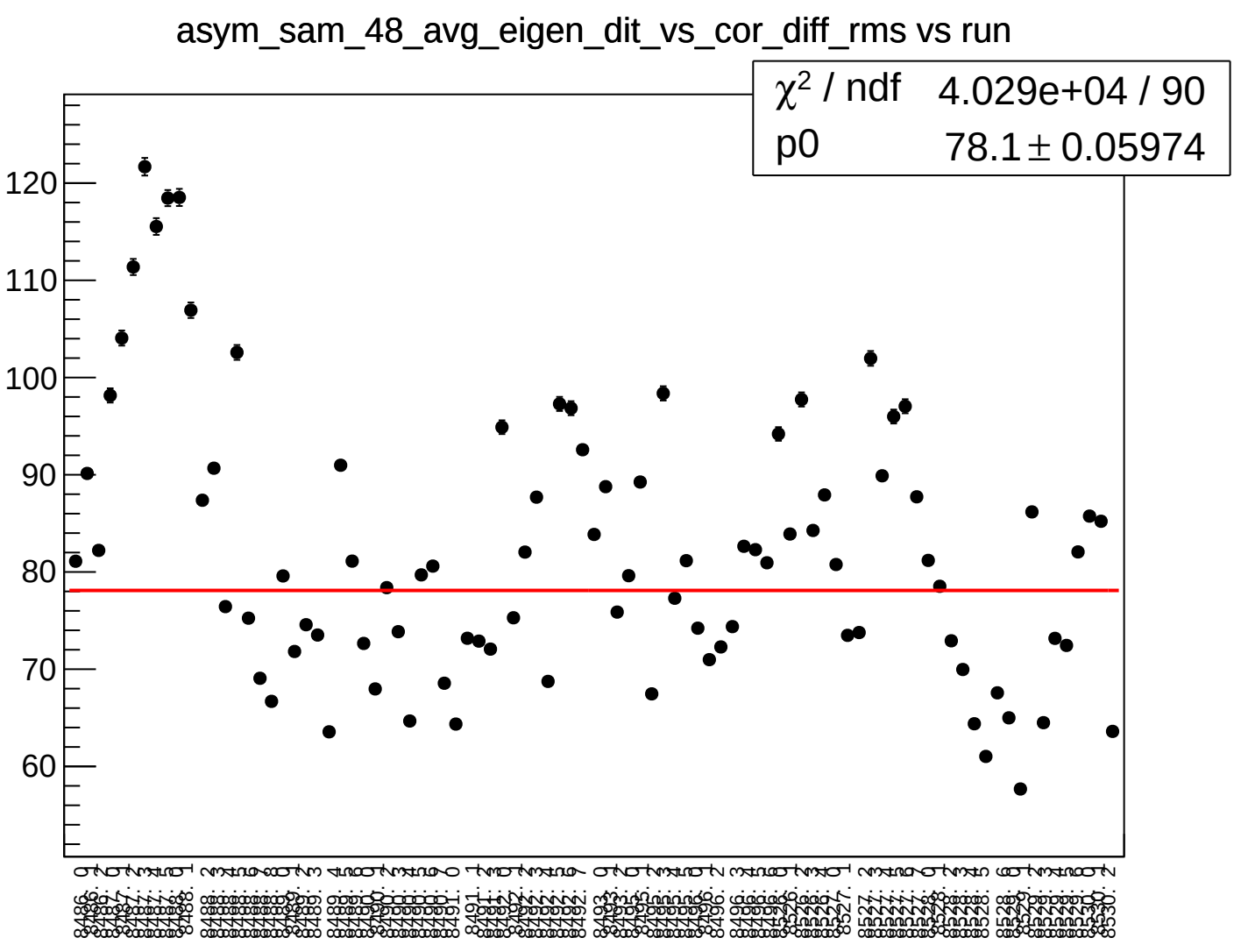

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.029e+04 / 90
p0 78.1 ± 0.05974
120
110
100
90
80
70
60

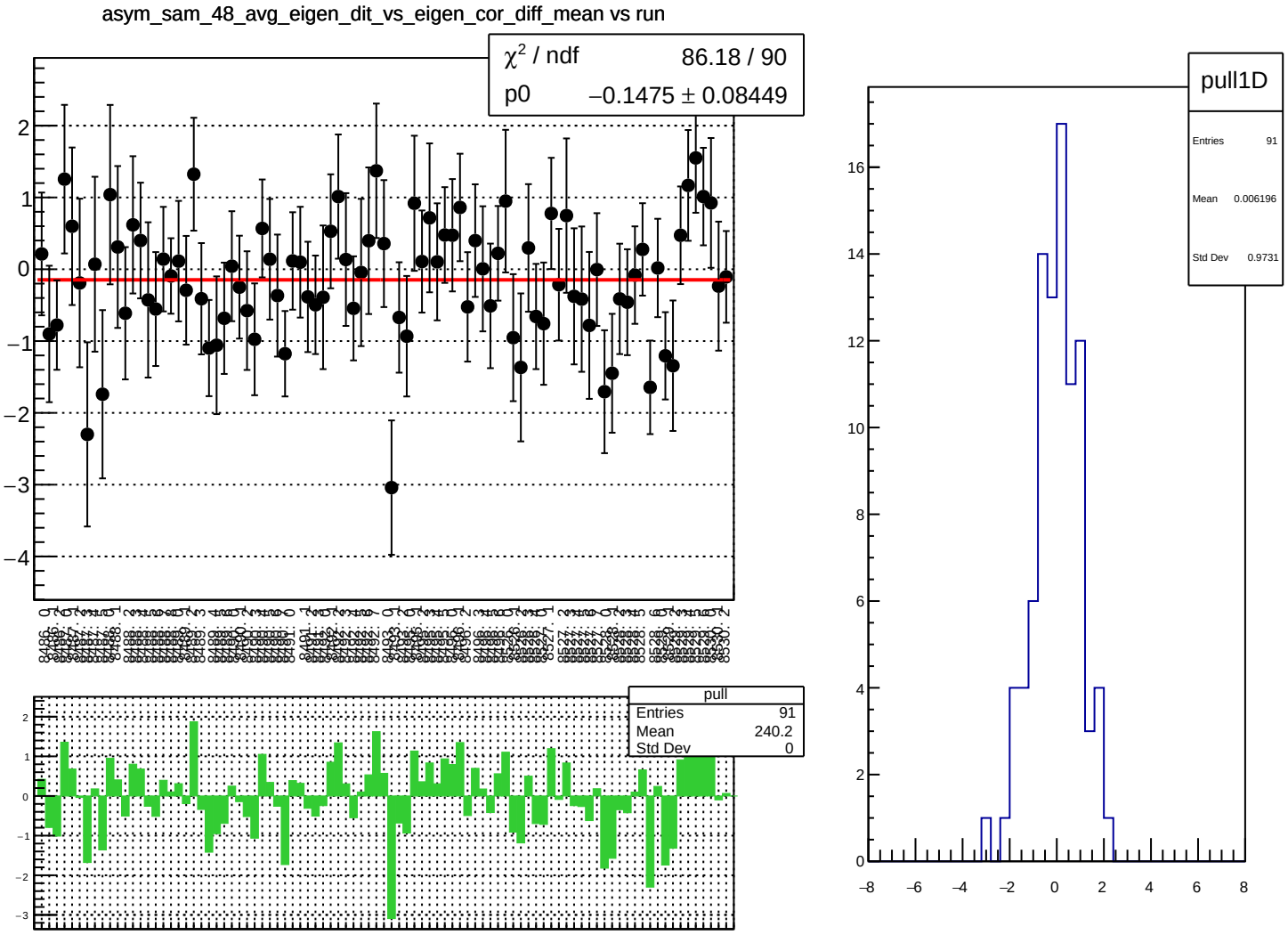

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.86 / 90
p0 1.468e−06 ± 3.321e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 91
Mean 2.256
Std Dev 0
2
1
0
−1
−2
−3

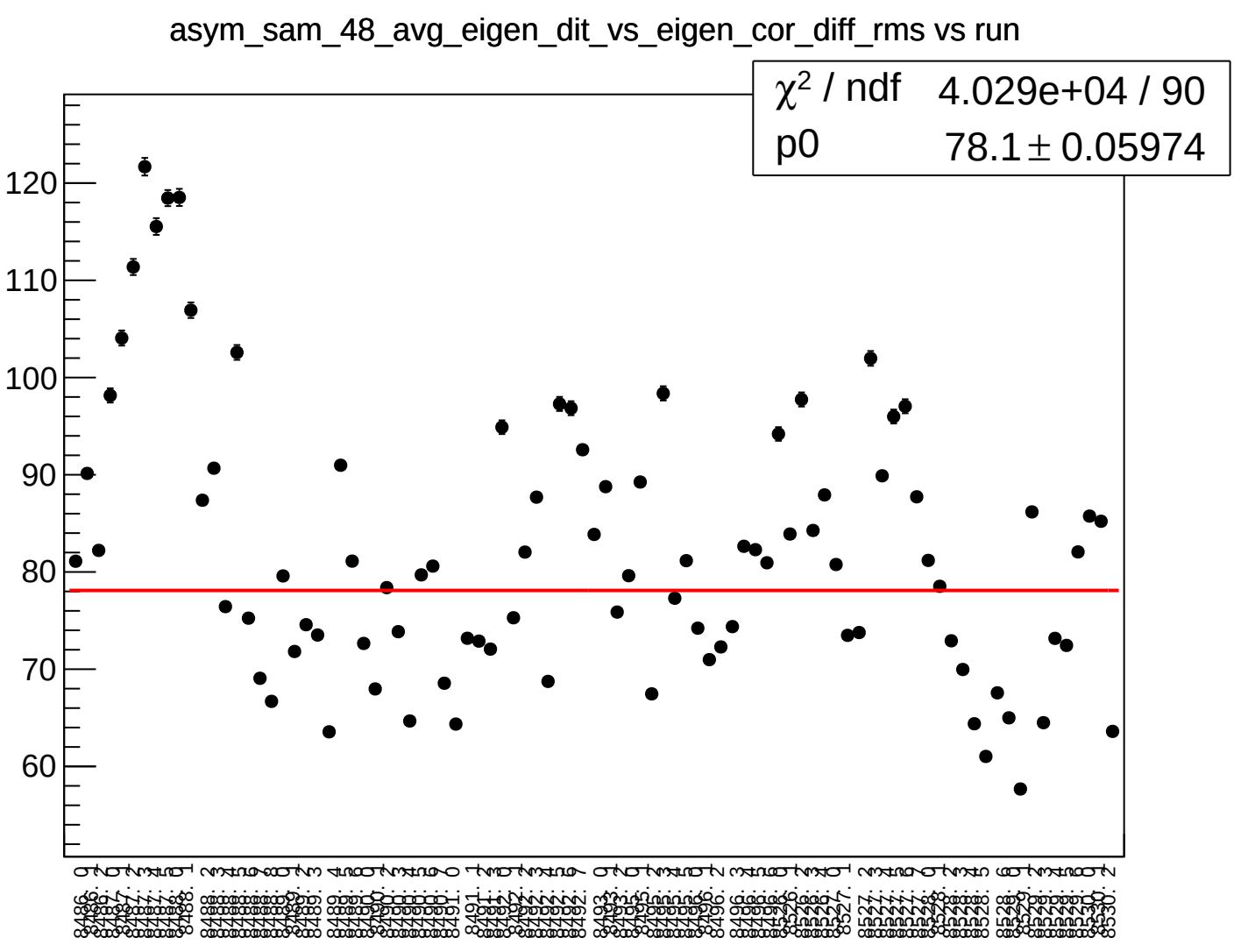

pull1D
Entries 91
Mean −0.01294
Std Dev 0.9008
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

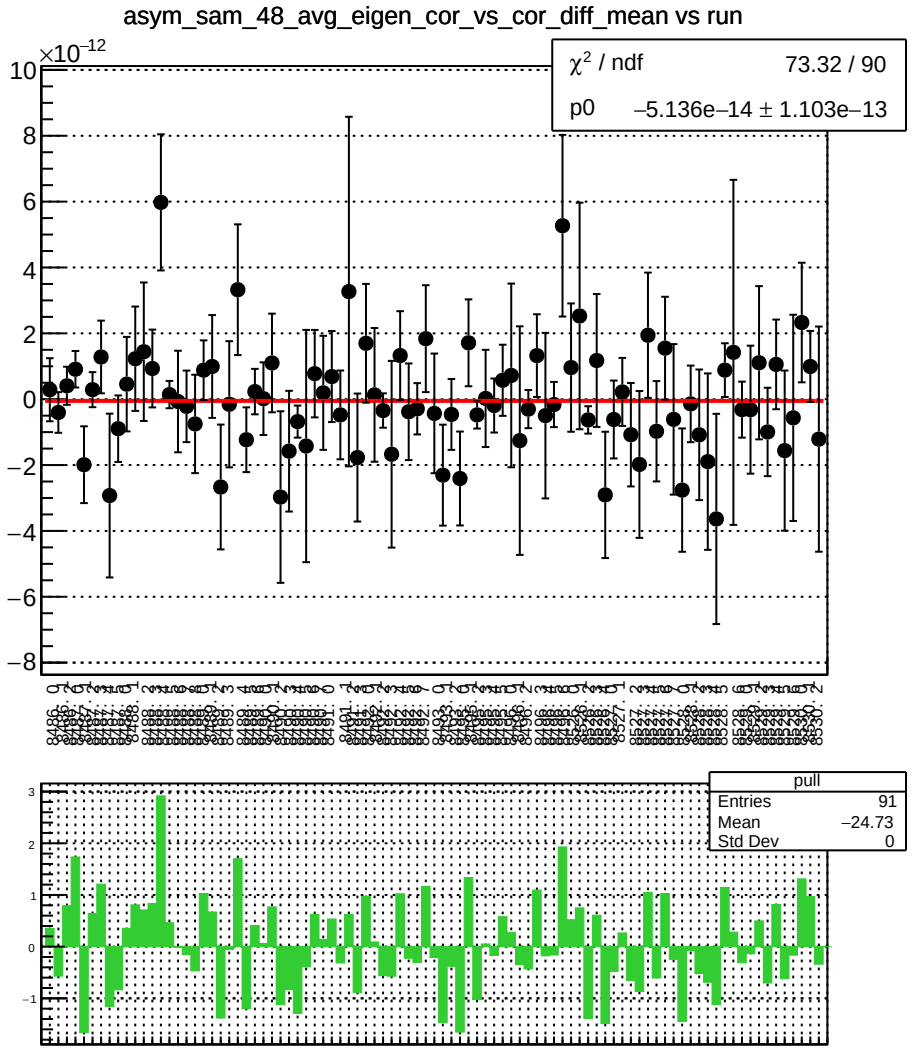

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.727e+04 / 90
p0 0.003081 ± 2.348e−06
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

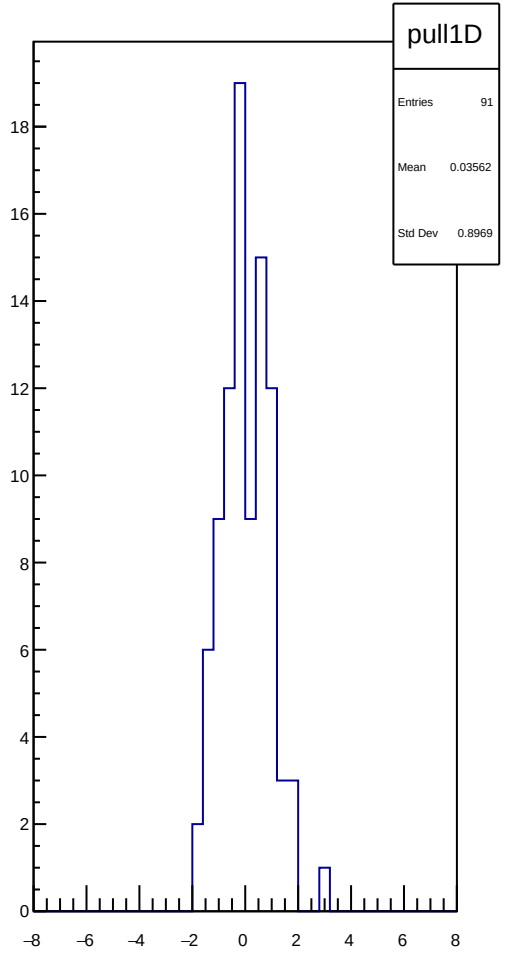

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.18 / 90
p0 −0.1475 ± 0.08449
pull
Entries 91
Mean 240.2
Std Dev 0
pull1D
Entries 91
Mean 0.006196
Std Dev 0.9731

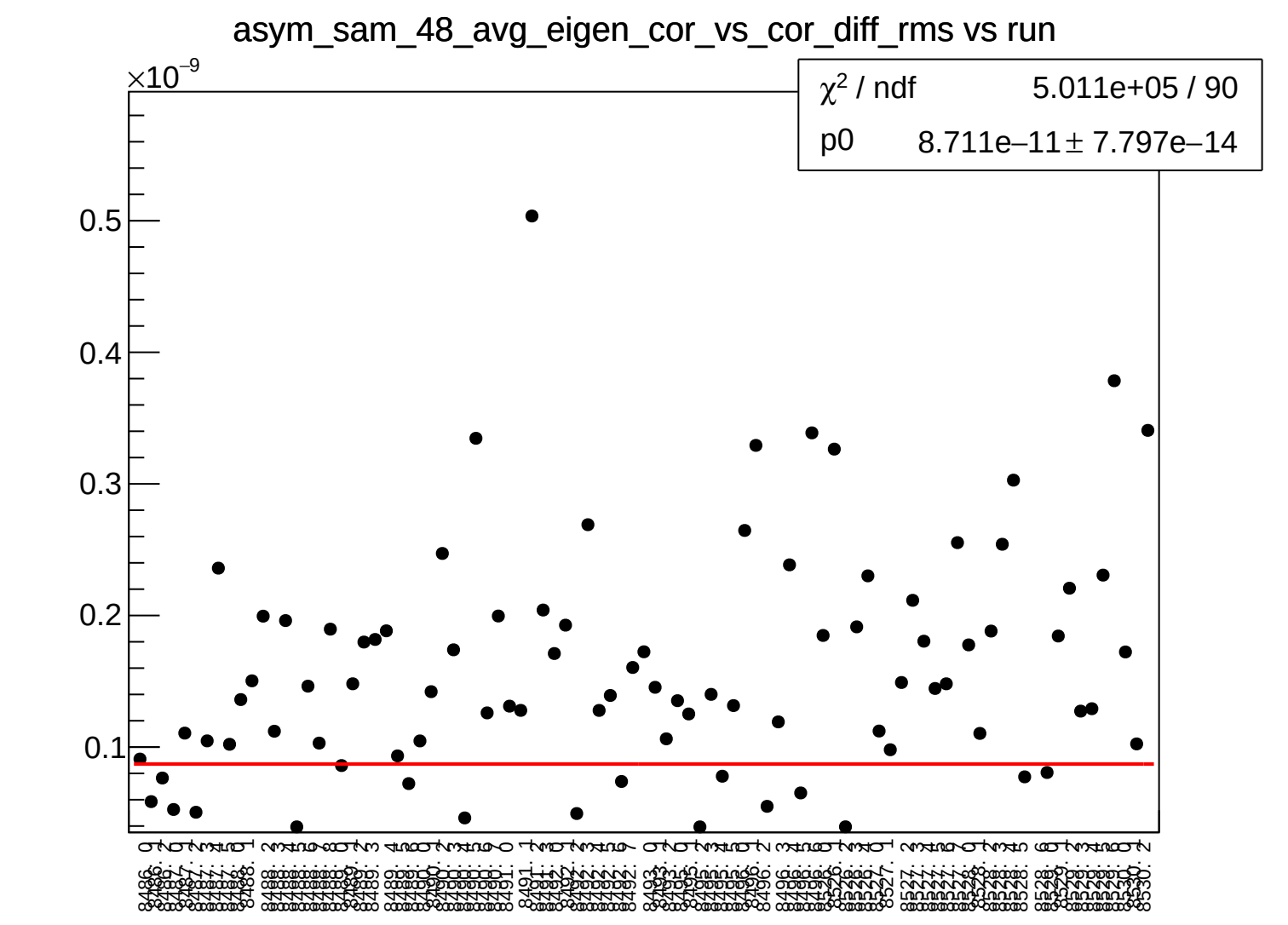

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.029e+04 / 90
p0 78.1 ± 0.05974
120
110
100
90
80
70
60

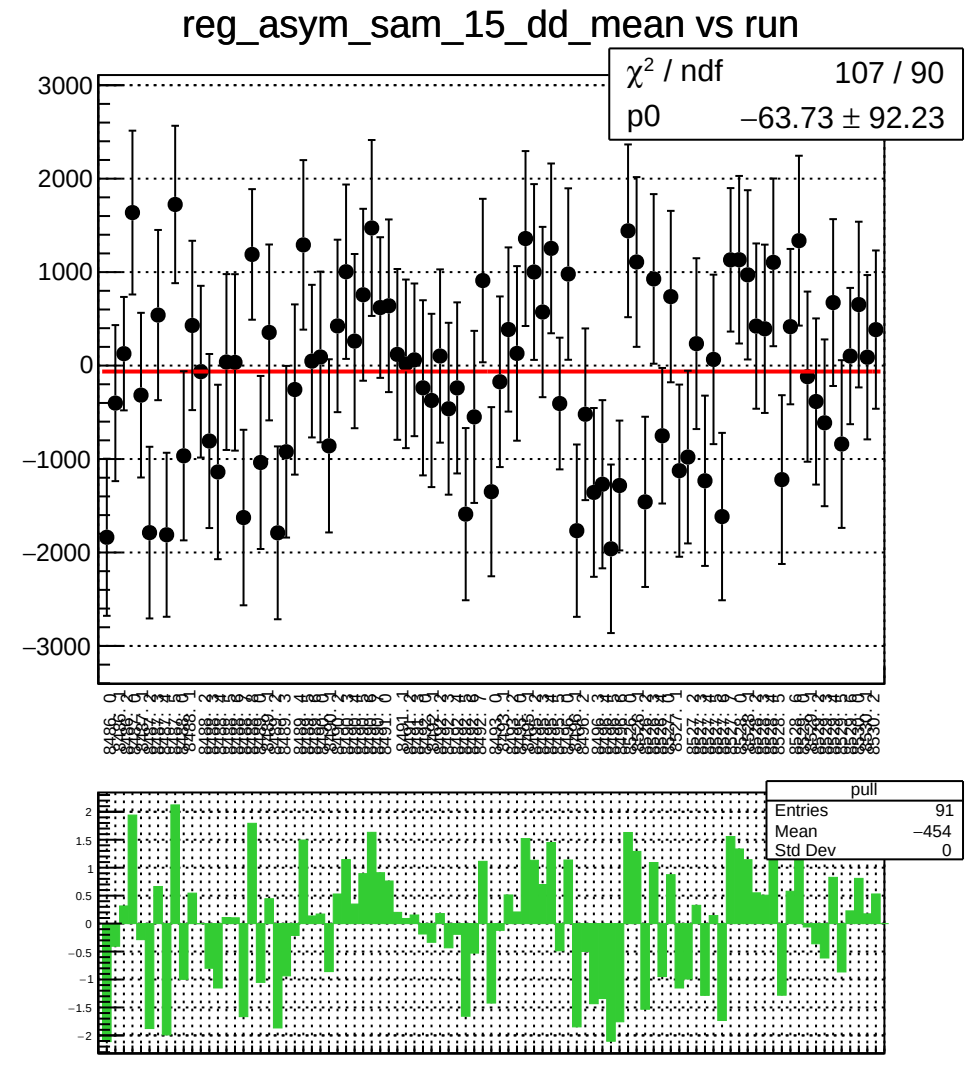

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.18 / 90
p0 −0.1475 ± 0.08449
pull
Entries 91
Mean 240.2
Std Dev 0
pull1D
Entries 91
Mean 0.006196
Std Dev 0.9731

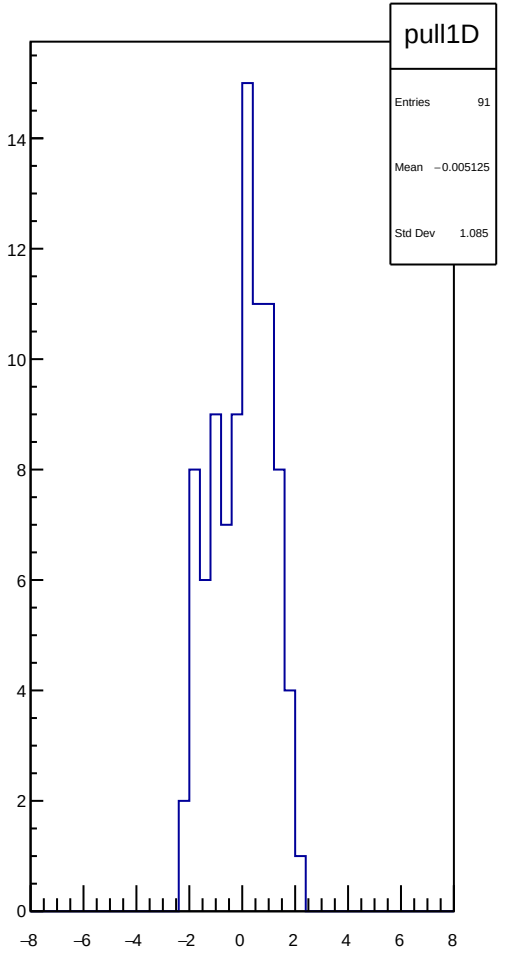

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.029e+04 / 90
p0 78.1 ± 0.05974
120
110
100
90
80
70
60

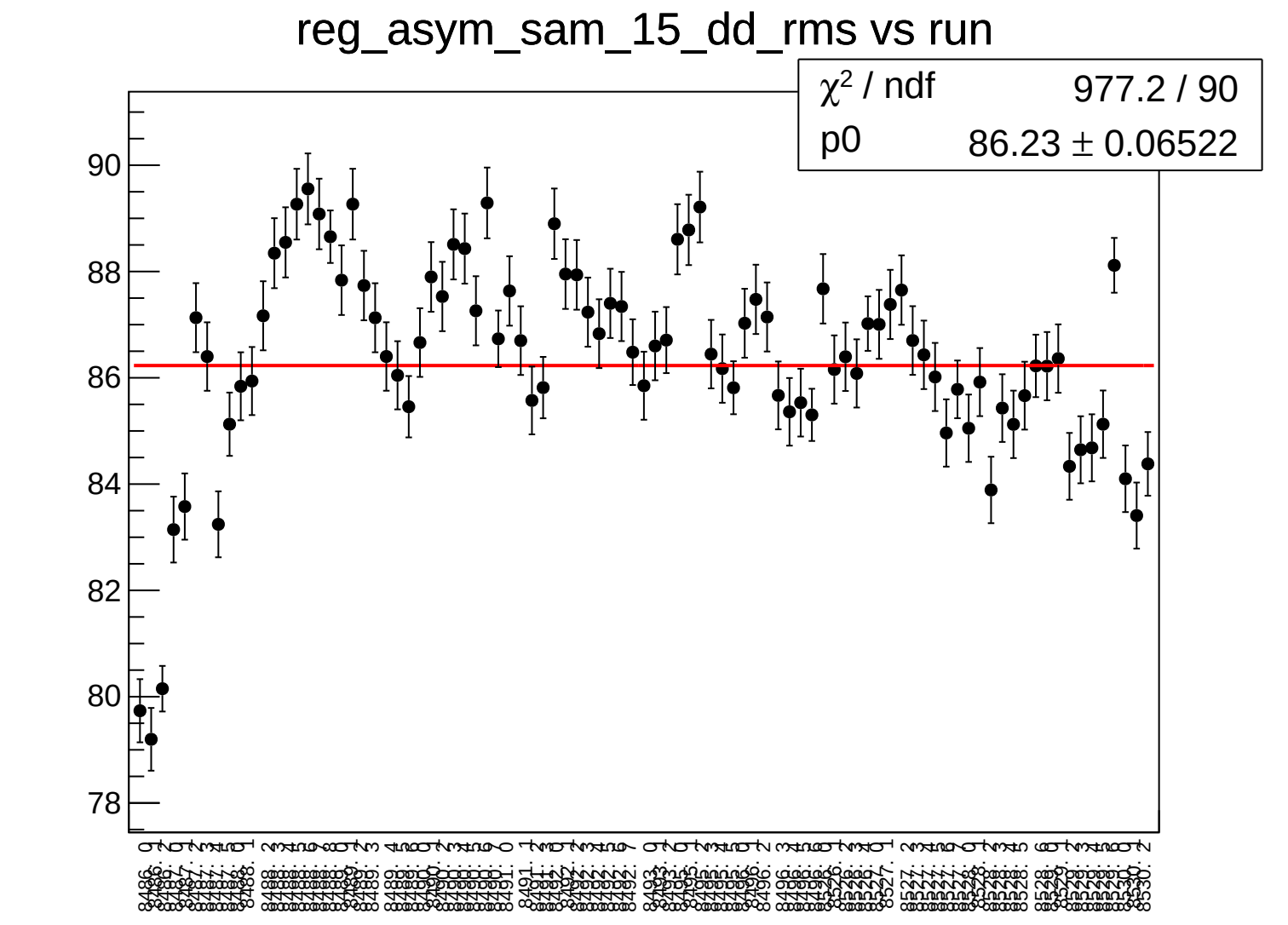

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.32 / 90
p0 −5.136e−14 ± 1.103e−13
pull
Entries 91
Mean −24.73
Std Dev 0

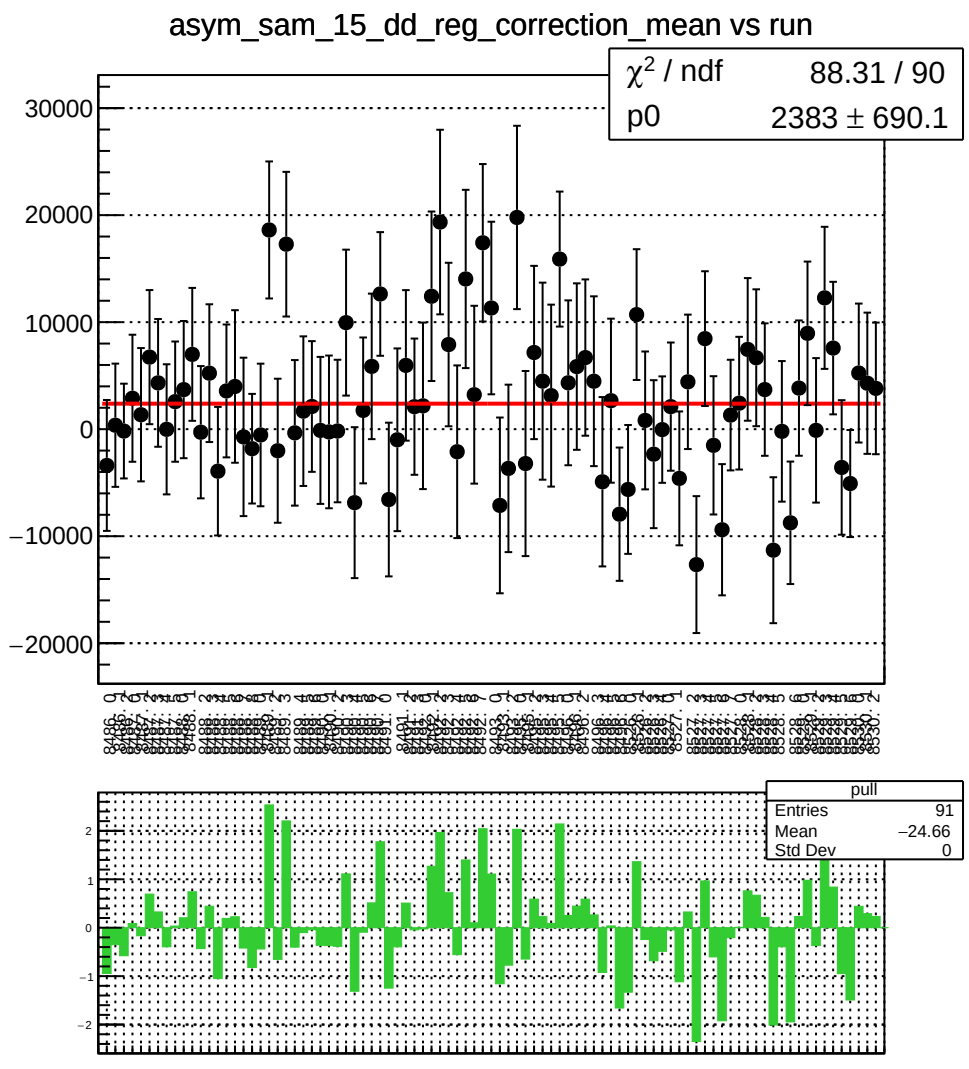

pull1D
Entries 91
Mean 0.03562
Std Dev 0.8969

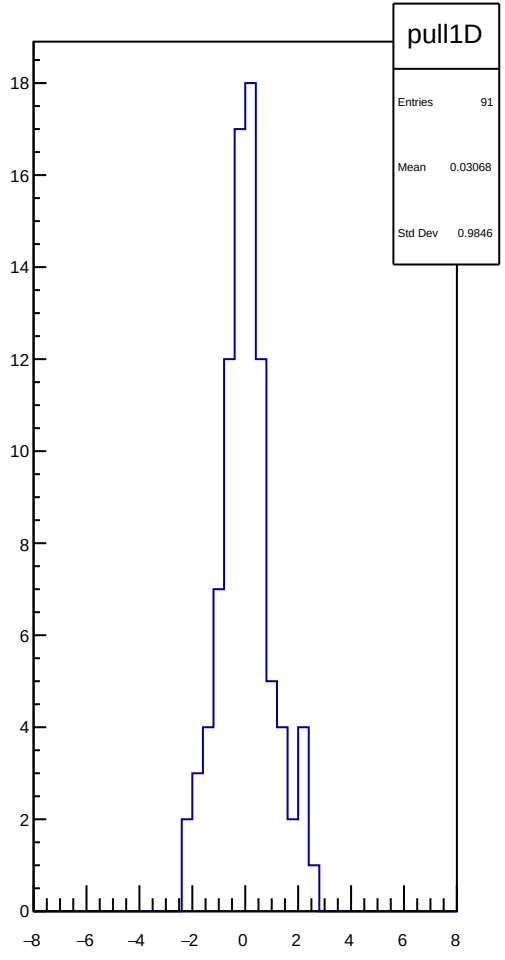

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.011e+05 / 90
p0 8.711e−11 ± 7.797e−14
0.5
0.4
0.3
0.2
0.1

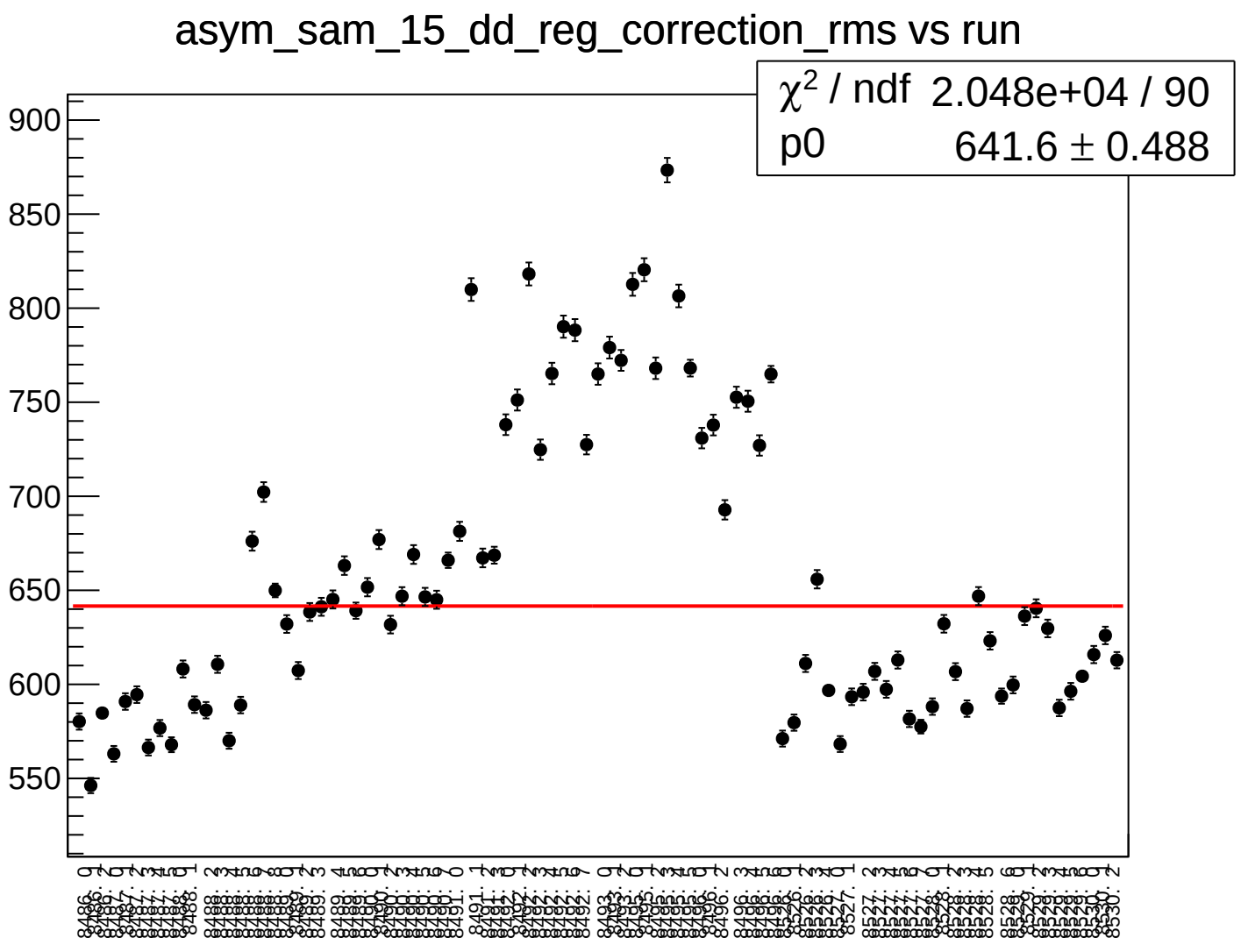

reg_asym_sam_15_dd_mean vs run
χ² / ndf 107 / 90
p0 −63.73 ± 92.23
pull
Entries 91
Mean −454
Std Dev 0

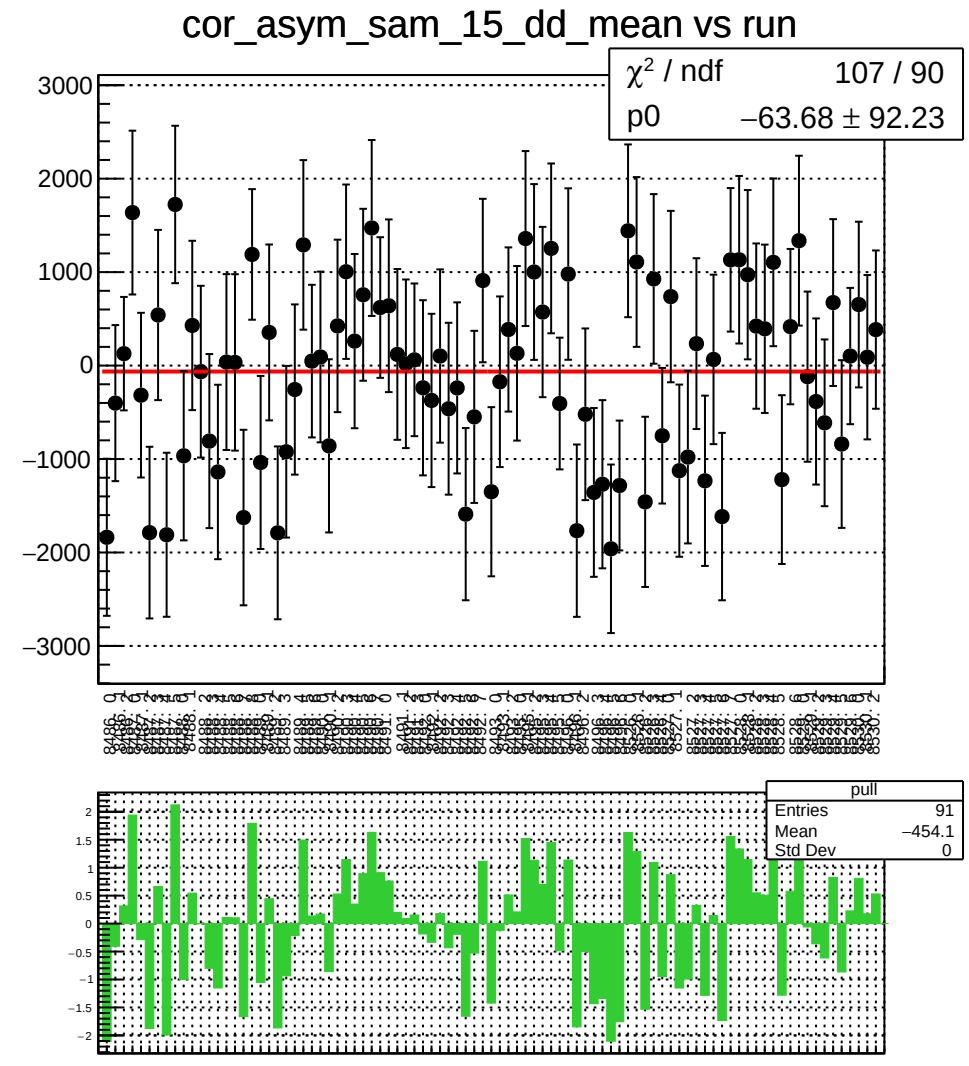

pull1D
Entries 91
Mean −0.005125
Std Dev 1.085

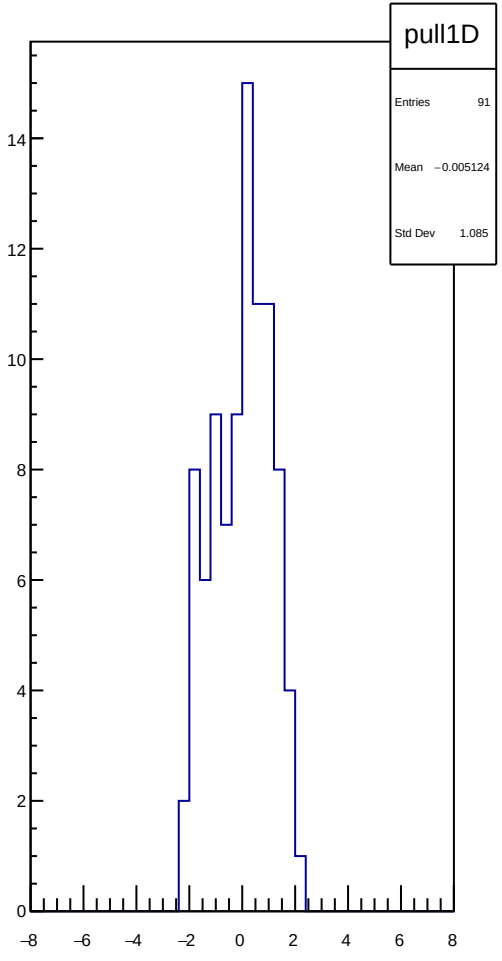

reg_asym_sam_15_dd_rms vs run
χ² / ndf 977.2 / 90
p0 86.23 ± 0.06522
90
88
86
84
82
80
78

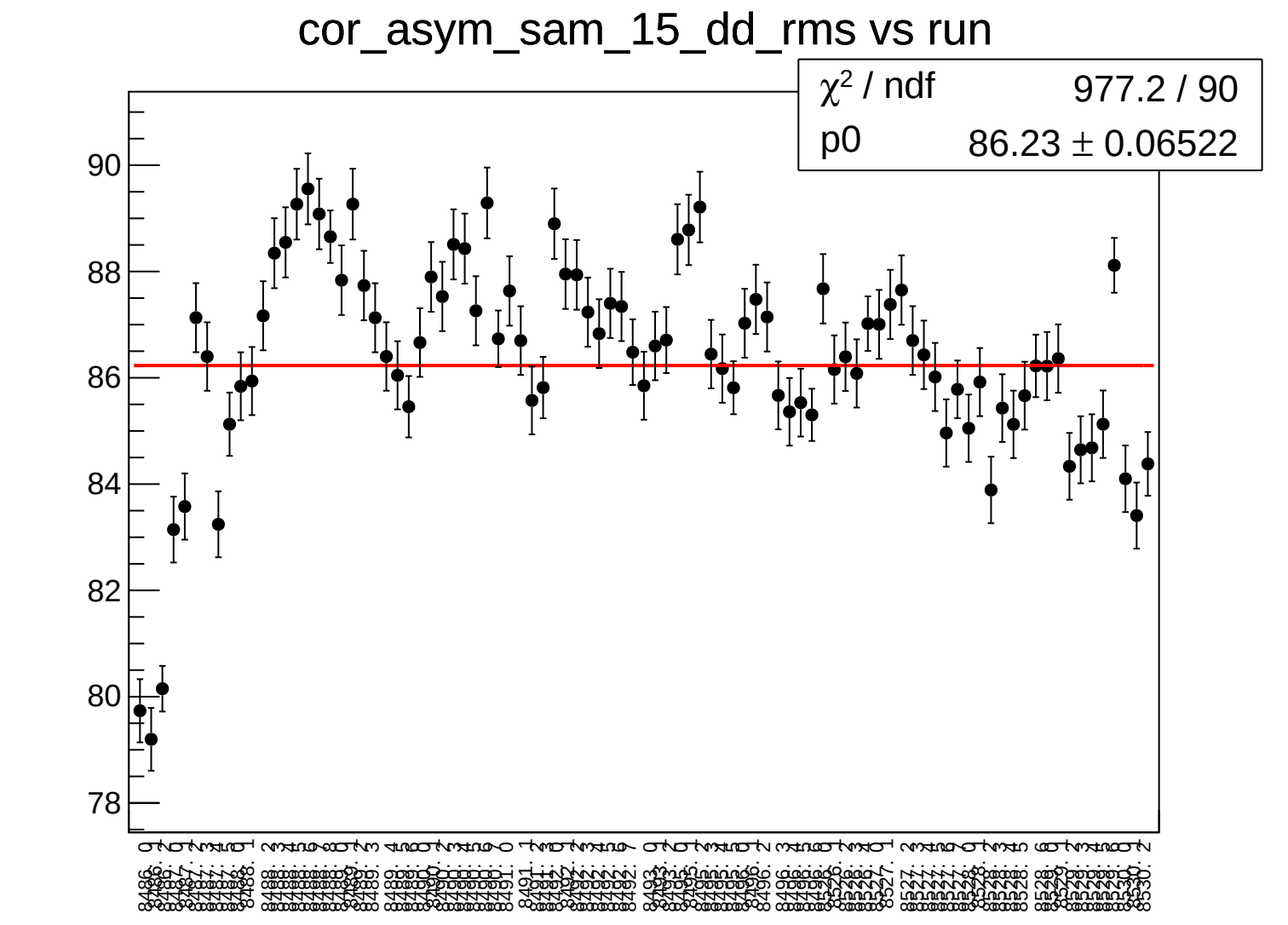

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 88.31 / 90
p0 2383 ± 690.1
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean −24.66
Std Dev 0
2
1
0
−1
−2

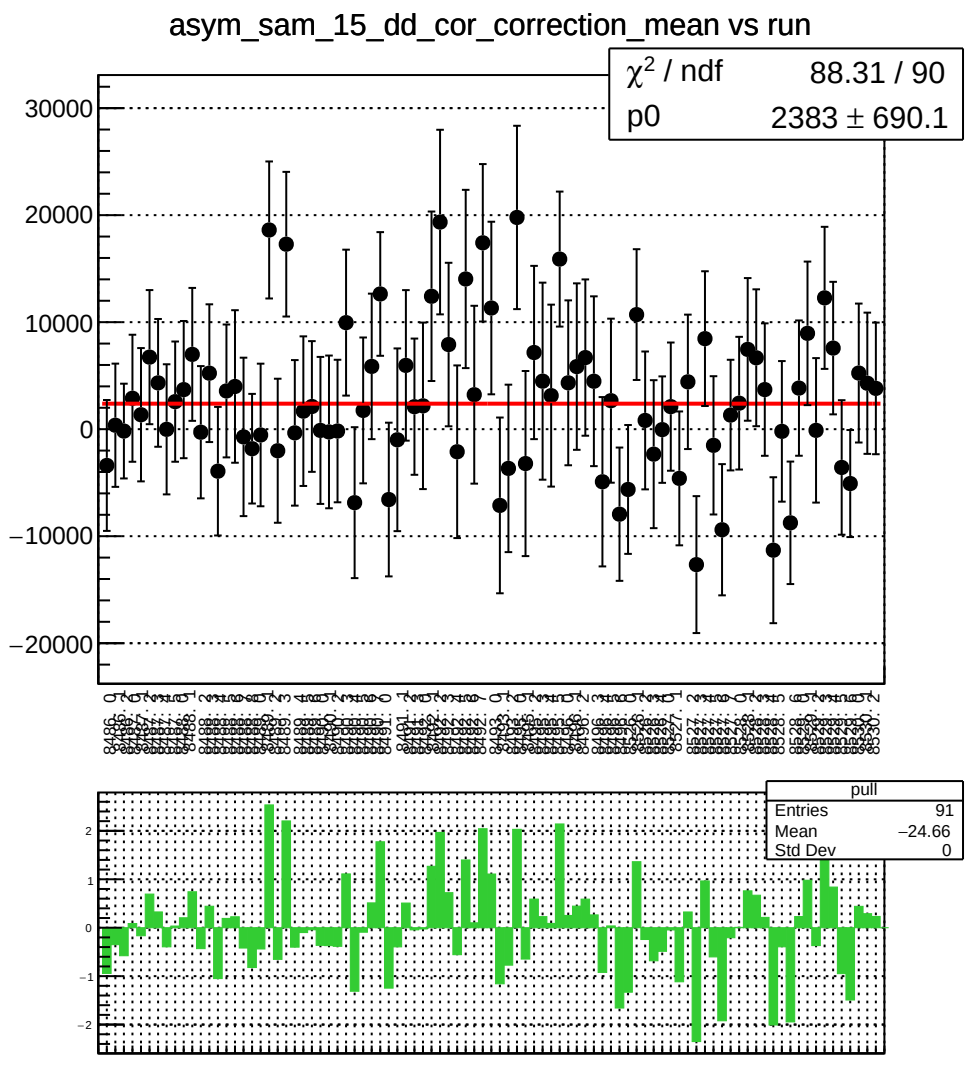

pull1D
Entries 91
Mean 0.03068
Std Dev 0.9846
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

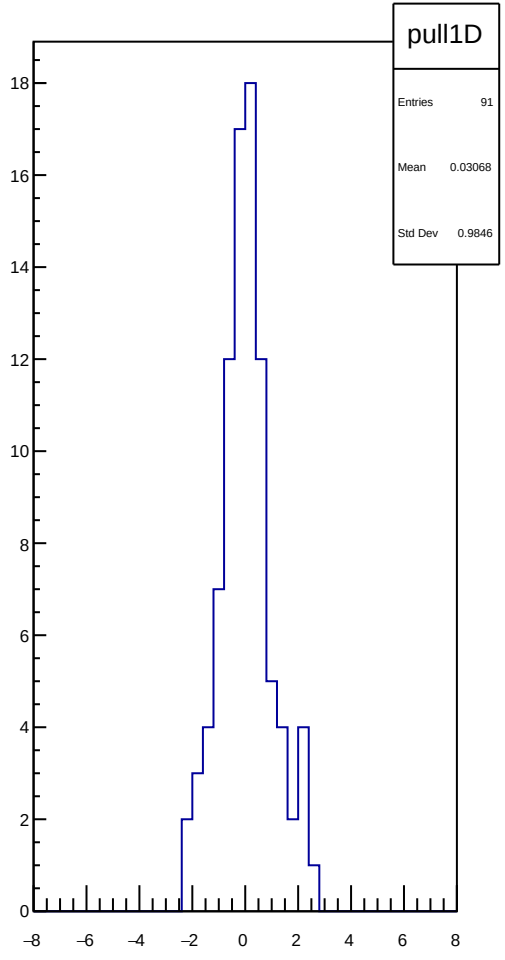

asym_sam_15_dd_reg_correction_rms vs run
χ² / ndf 2.048e+04 / 90
p0 641.6 ± 0.488
900
850
800
750
700
650
600
550

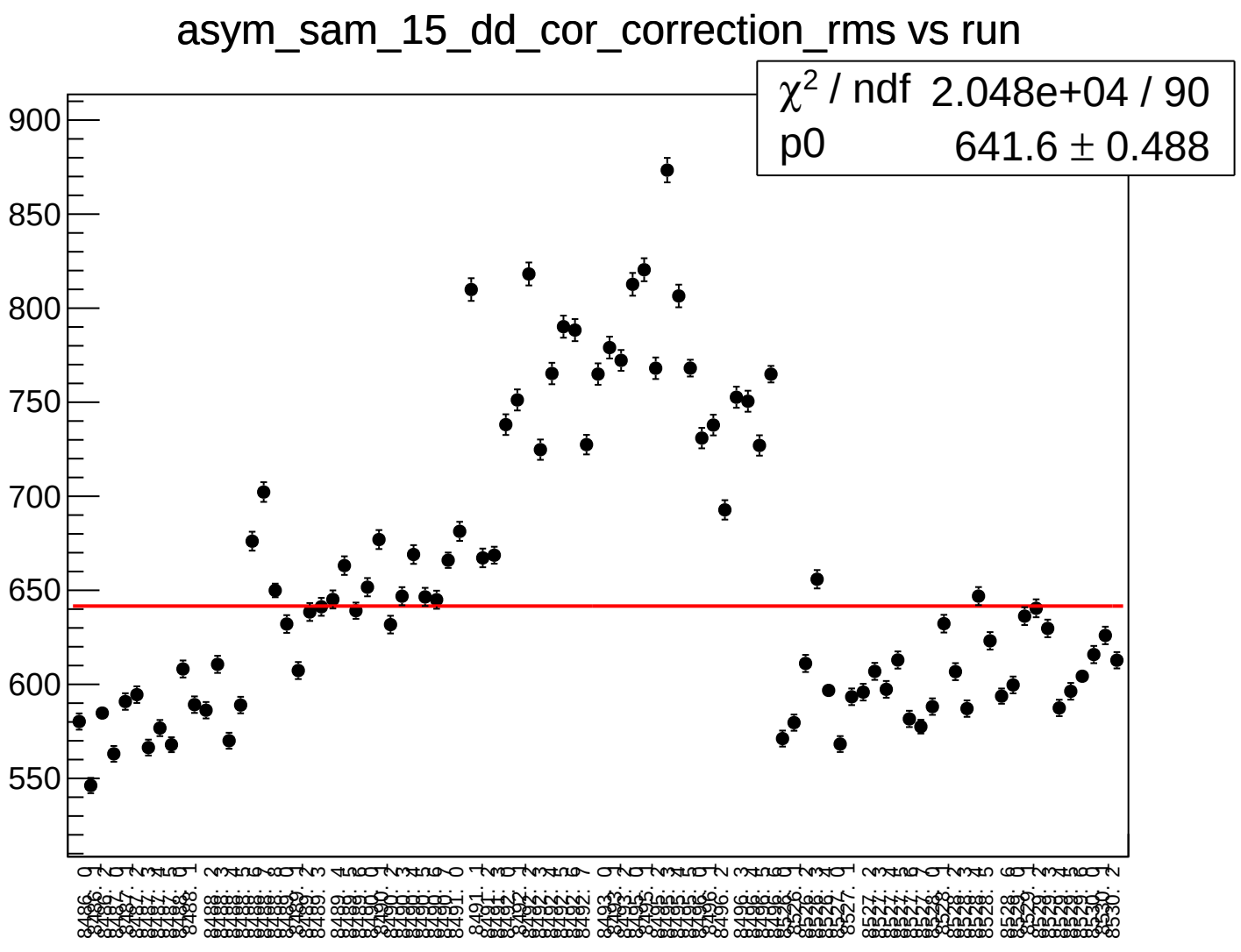

cor_asym_sam_15_dd_mean vs run
χ² / ndf 107 / 90
p0 −63.68 ± 92.23
pull
Entries 91
Mean −454.1
Std Dev 0

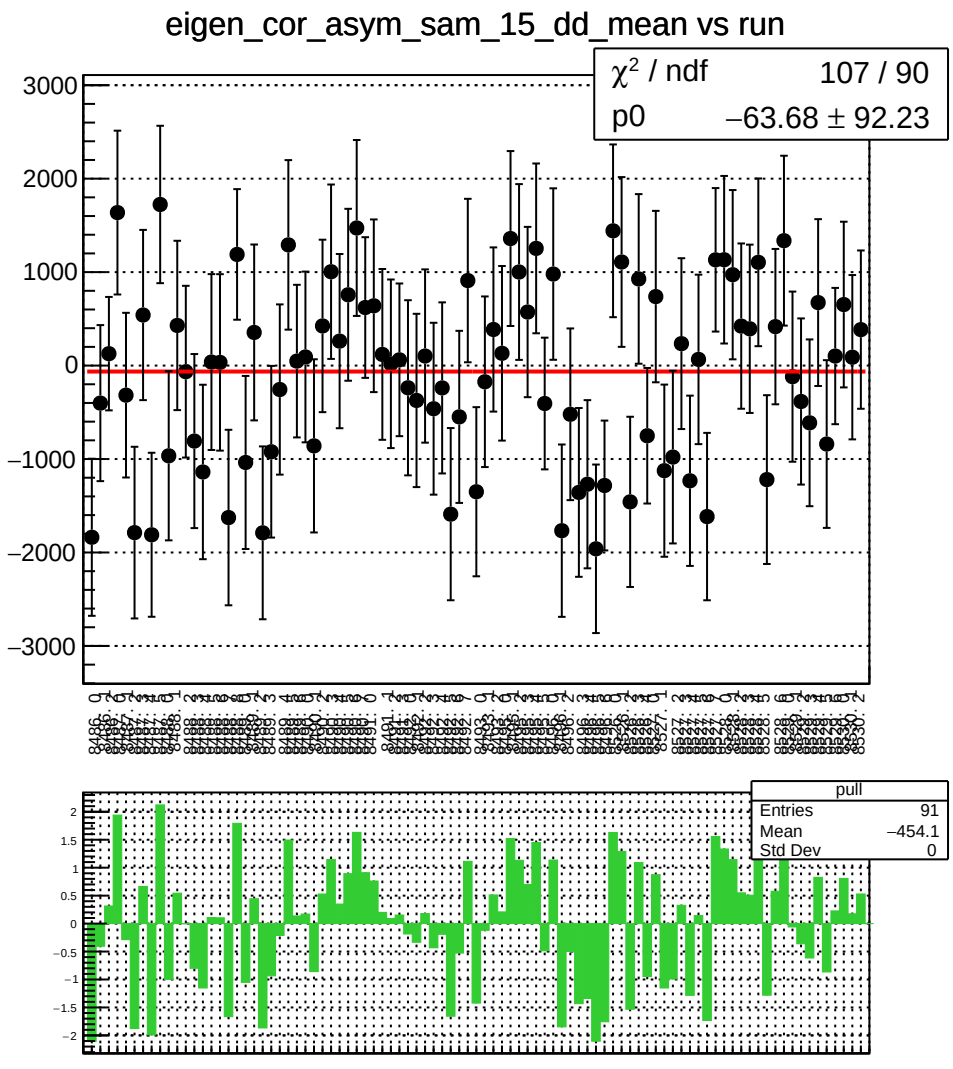

pull1D
Entries 91
Mean −0.005124
Std Dev 1.085

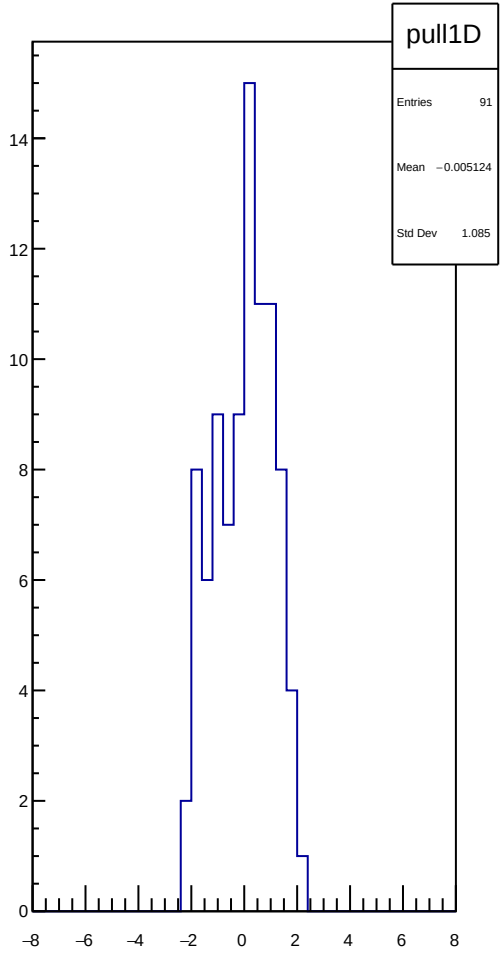

cor_asym_sam_15_dd_rms vs run
χ² / ndf 977.2 / 90
p0 86.23 ± 0.06522
90
88
86
84
82
80
78

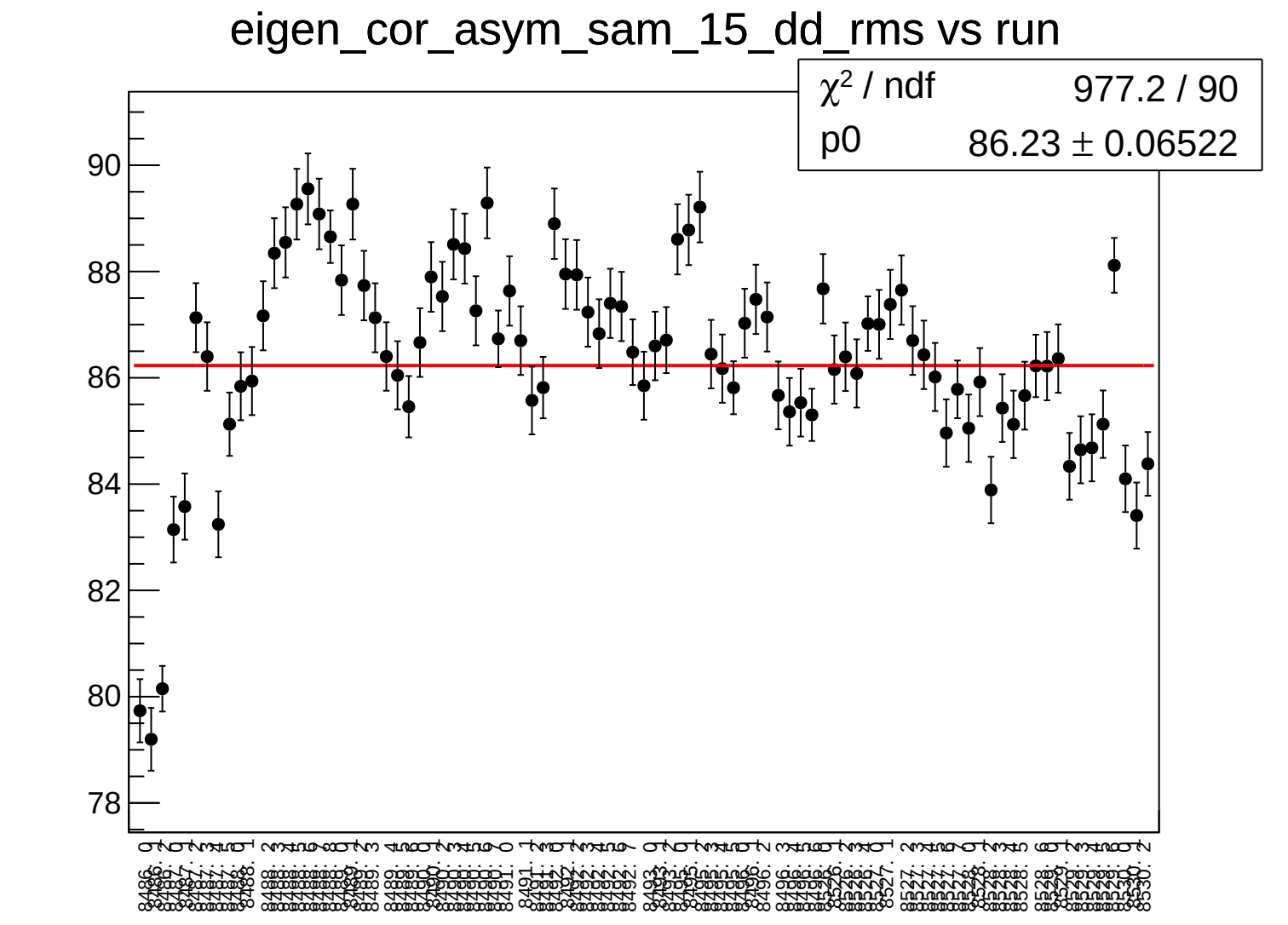

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 88.31 / 90
p0 2383 ± 690.1
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean −24.66
Std Dev 0
2
1
0
−1
−2

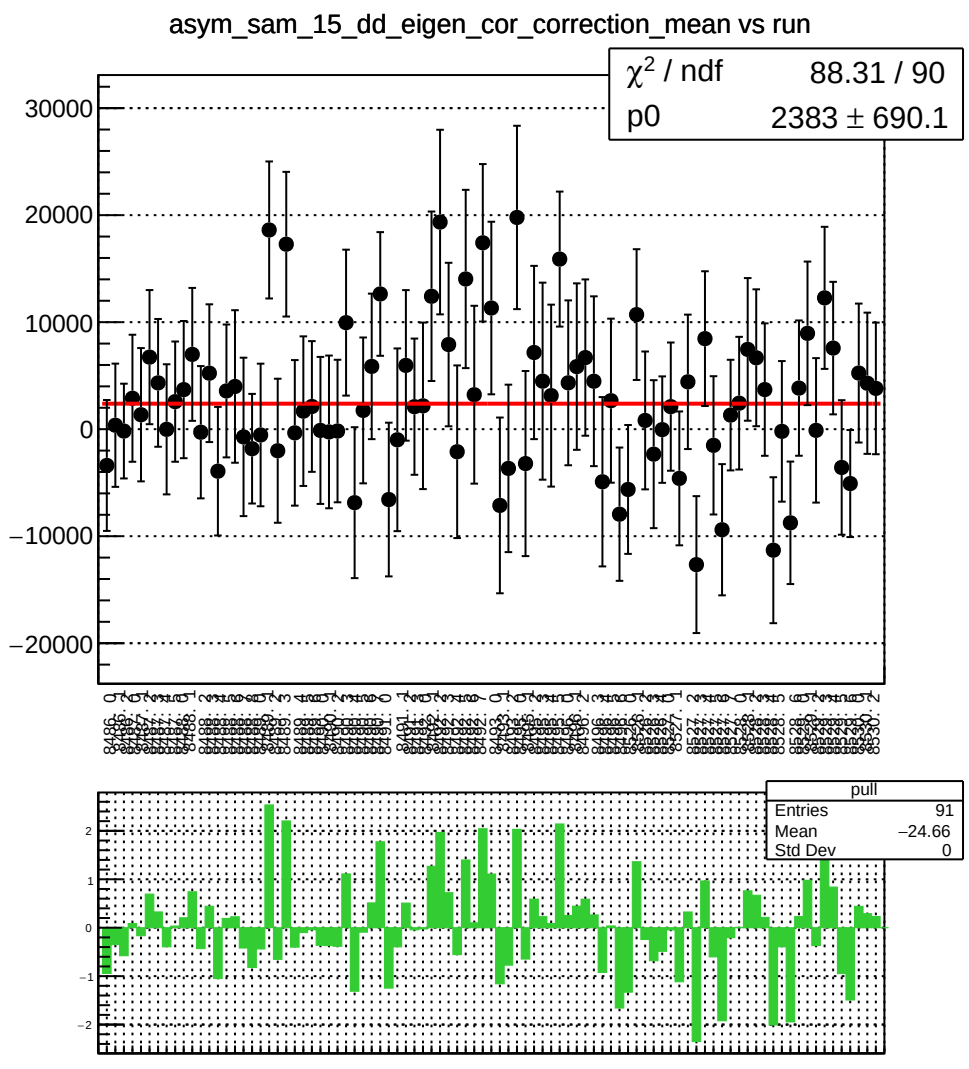

pull1D
Entries 91
Mean 0.03068
Std Dev 0.9846
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

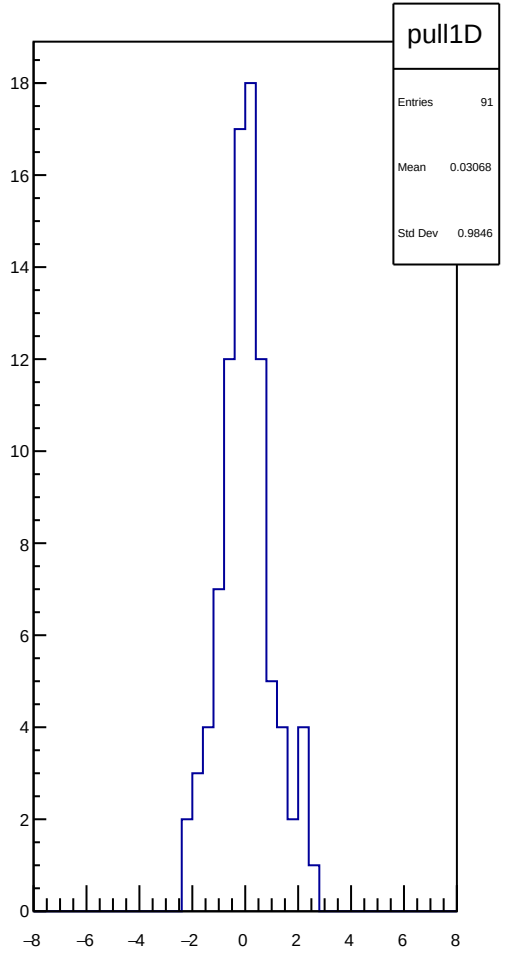

asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 2.048e+04 / 90
p0 641.6 ± 0.488
900
850
800
750
700
650
600
550

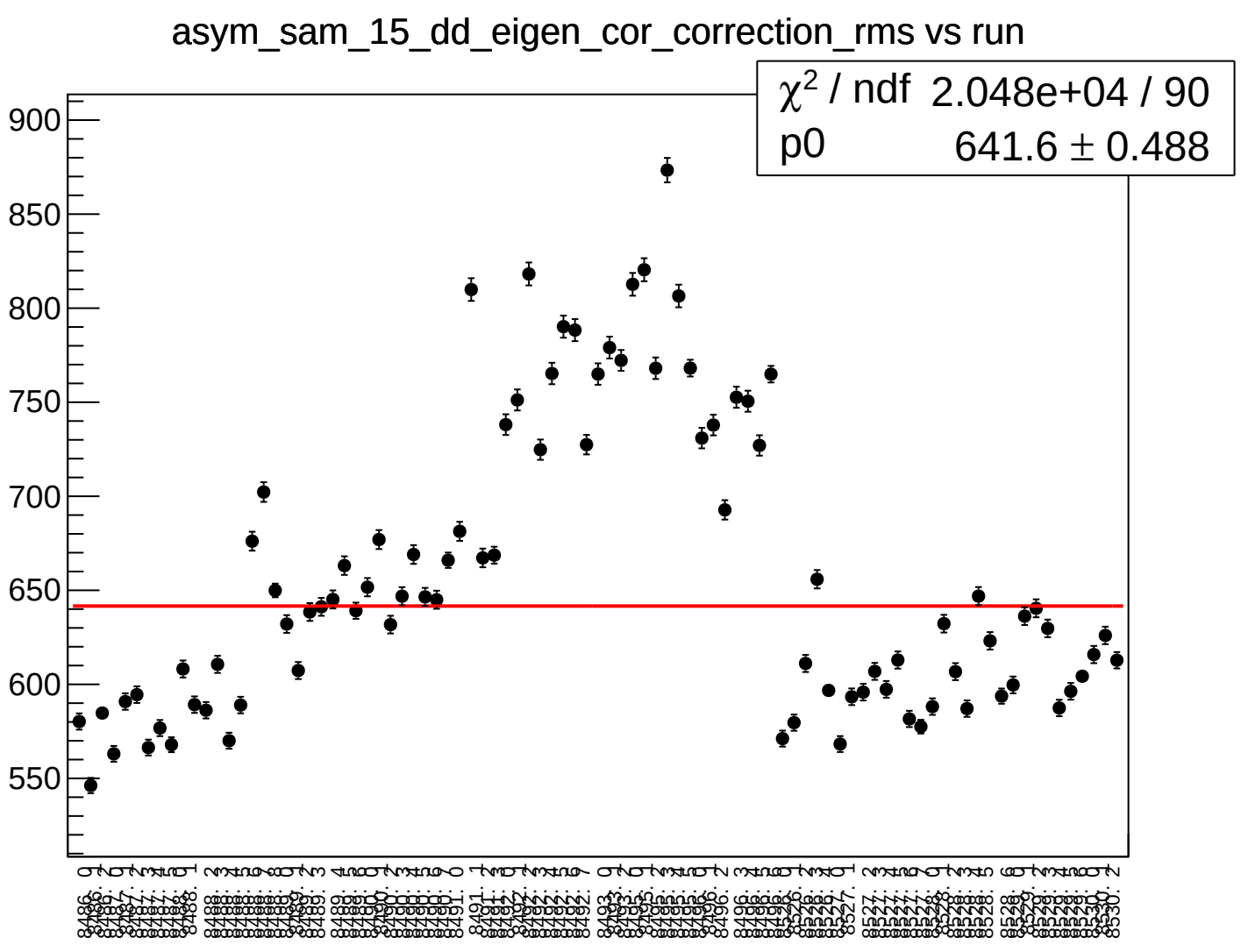

eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 107 / 90
p0 −63.68 ± 92.23
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 91
Mean −454.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

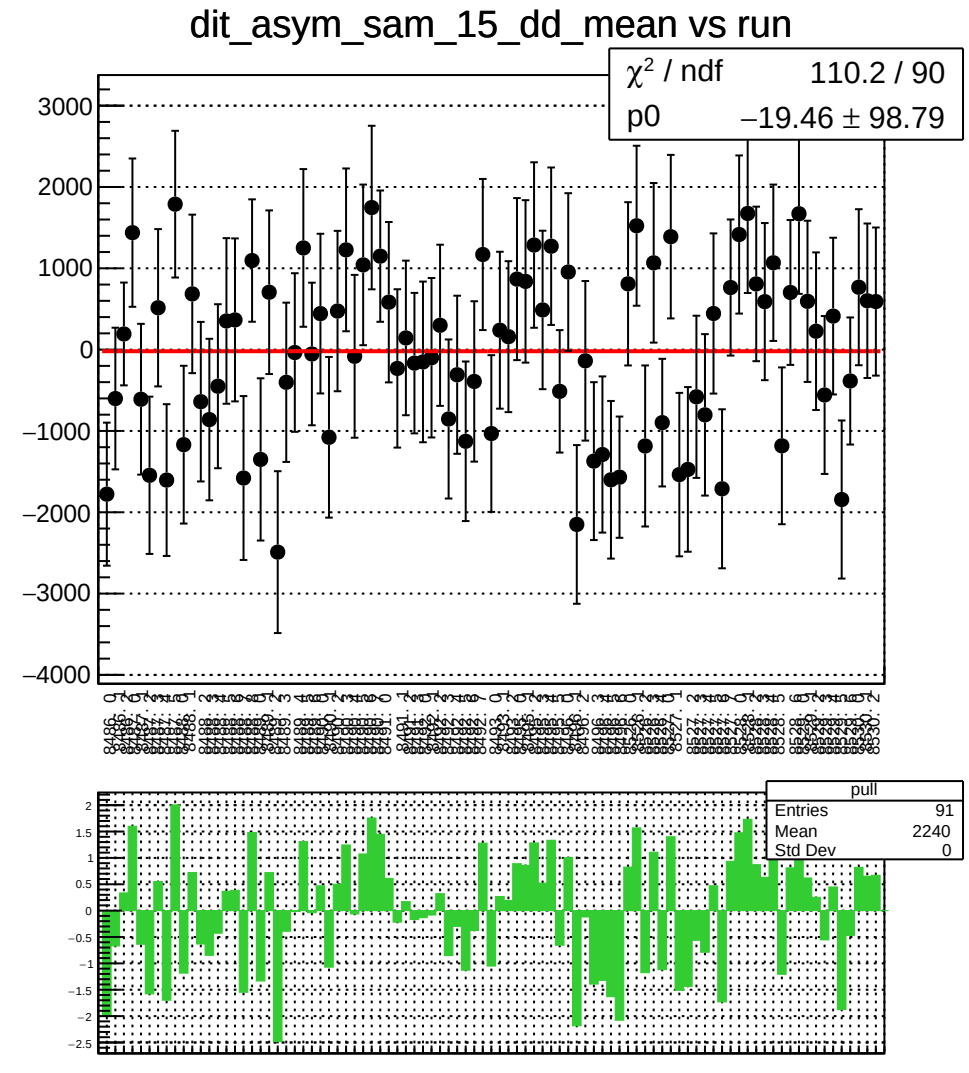

pull1D
Entries 91
Mean −0.005124
Std Dev 1.085
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

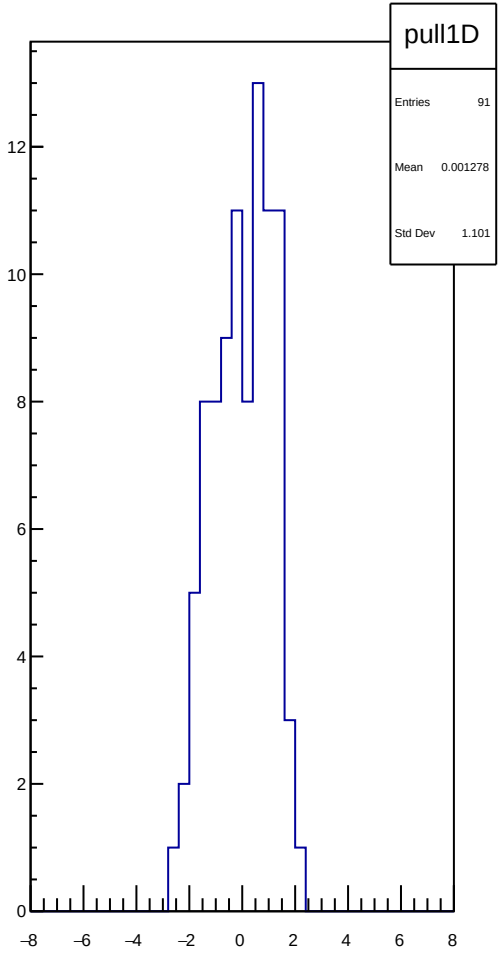

eigen_cor_asym_sam_15_dd_rms vs run
χ² / ndf 977.2 / 90
p0 86.23 ± 0.06522
90
88
86
84
82
80
78

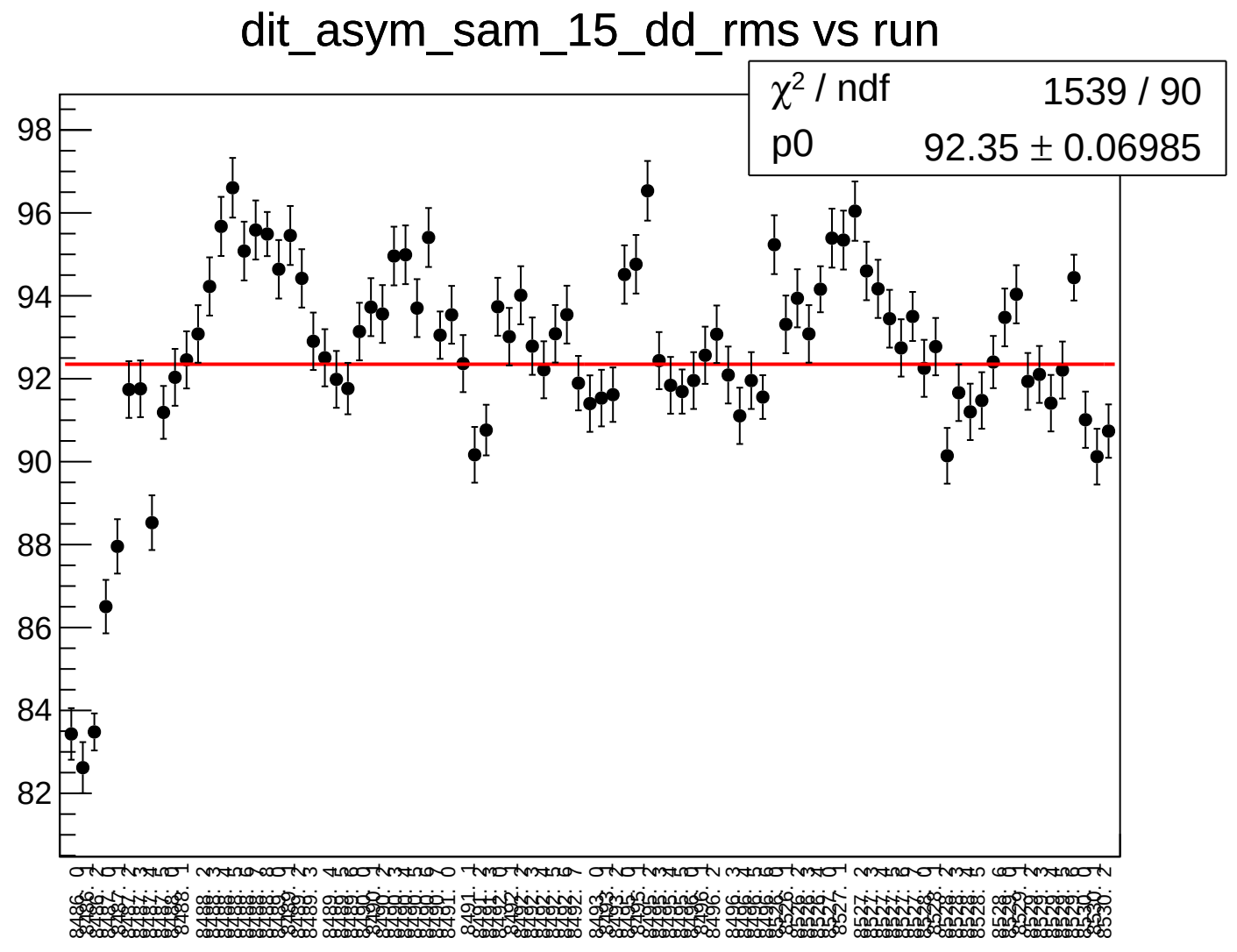

asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 88.31 / 90
p0 2383 ± 690.1
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean −24.66
Std Dev 0
2
1
0
−1
−2

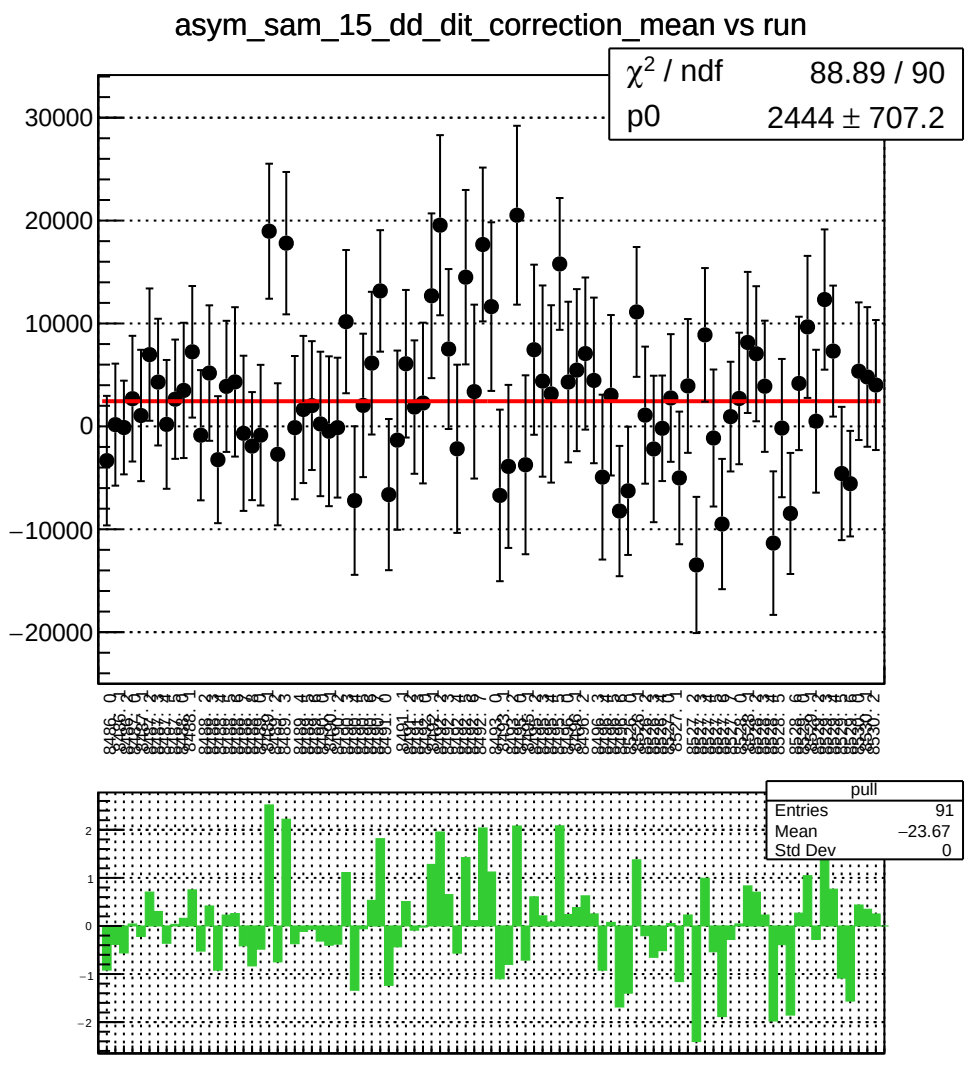

pull1D
Entries 91
Mean 0.03068
Std Dev 0.9846
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

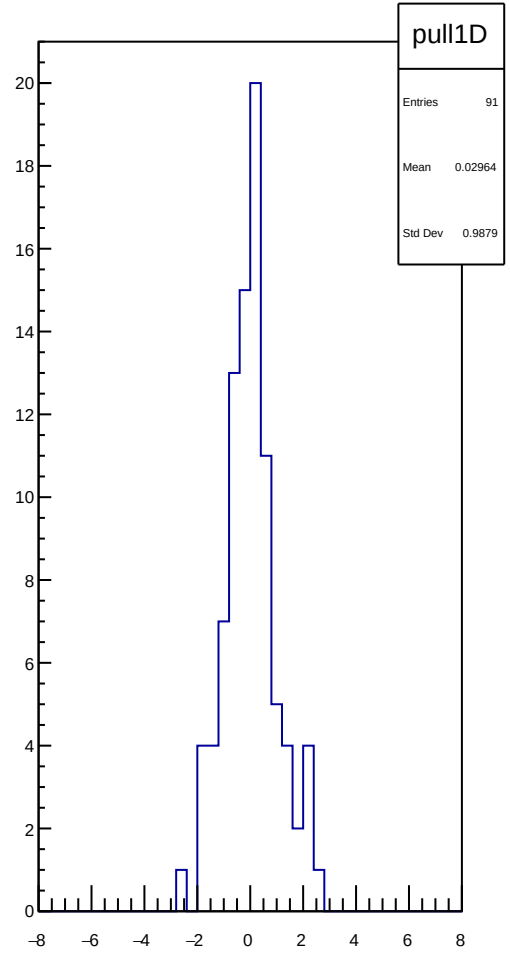

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.048e+04 / 90
p0 641.6 ± 0.488
900
850
800
750
700
650
600
550

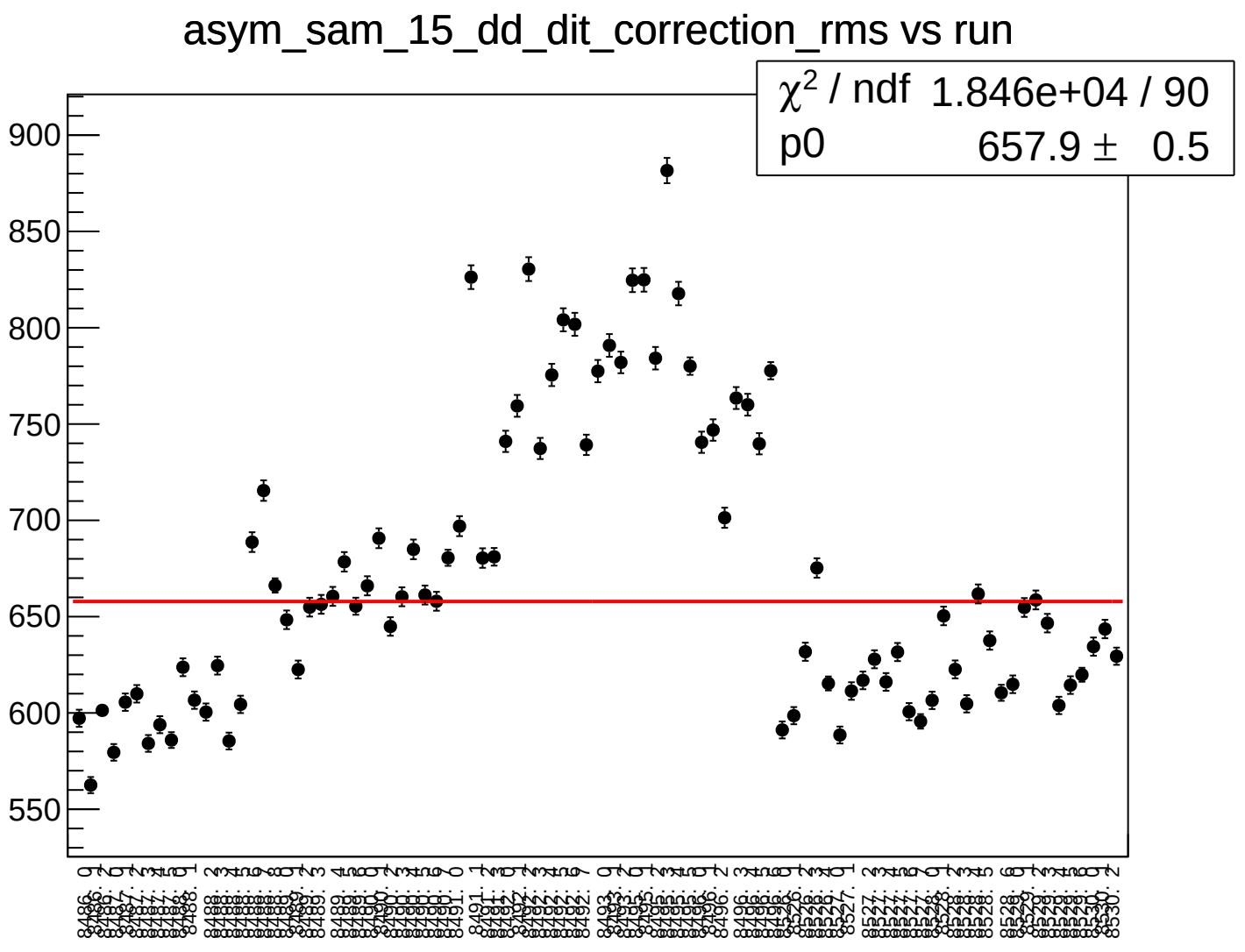

dit_asym_sam_15_dd_mean vs run
χ² / ndf 110.2 / 90
p0 −19.46 ± 98.79
pull
Entries 91
Mean 2240
Std Dev 0

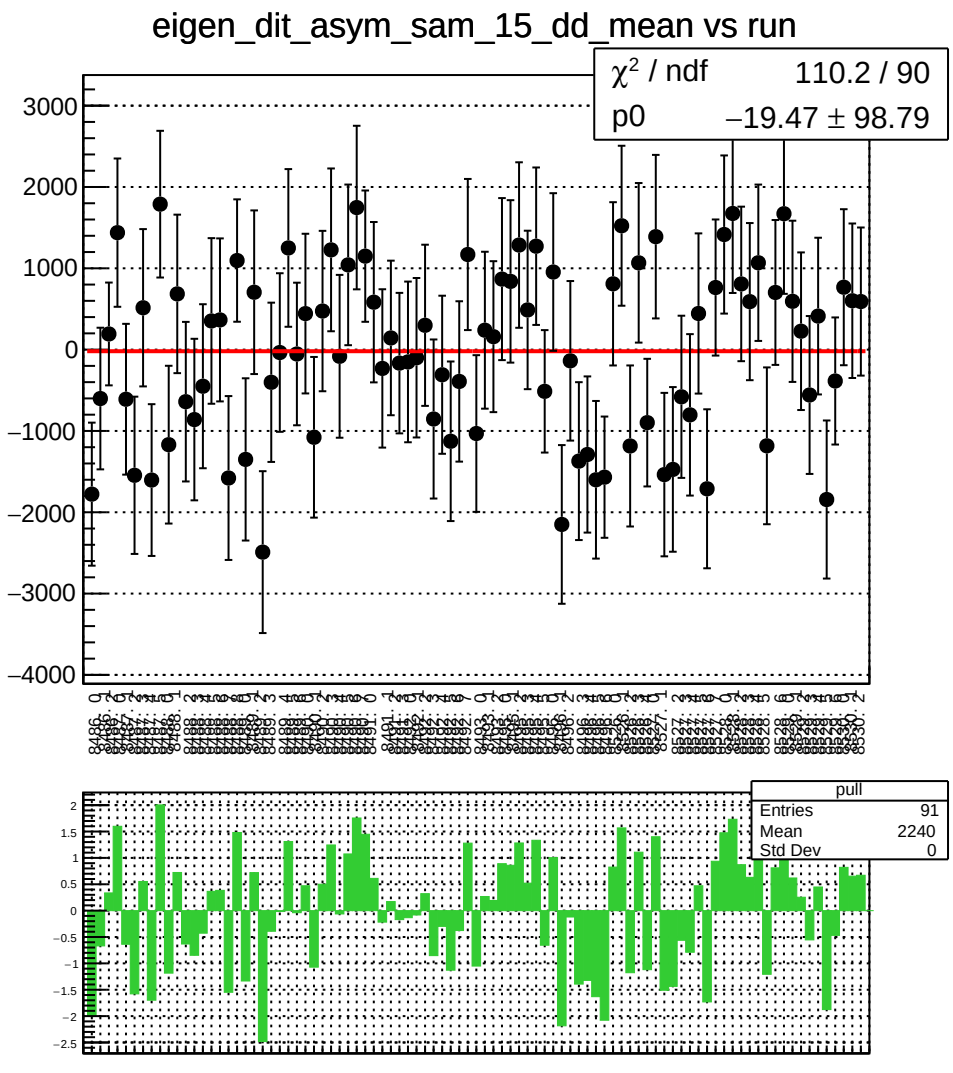

pull1D
Entries 91
Mean 0.001278
Std Dev 1.101

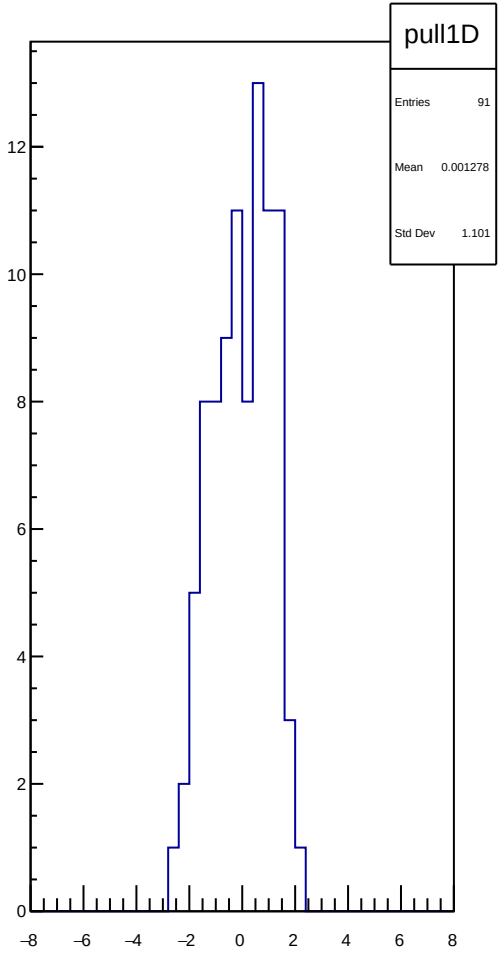

dit_asym_sam_15_dd_rms vs run
χ² / ndf 1539 / 90
p0 92.35 ± 0.06985
98
96
94
92
90
88
86
84
82

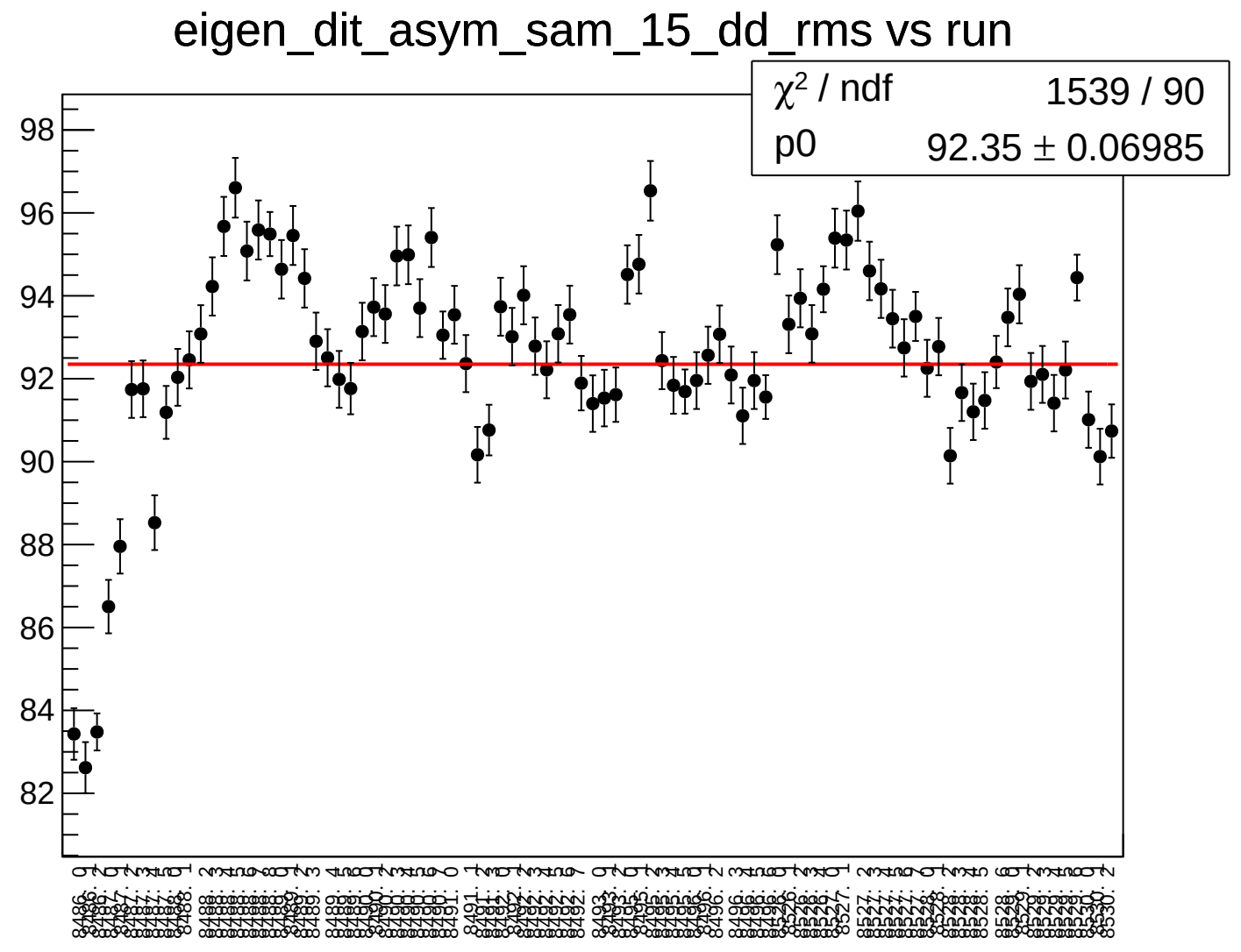

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 88.89 / 90
p0 2444 ± 707.2
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean −23.67
Std Dev 0
2
1
0
−1
−2

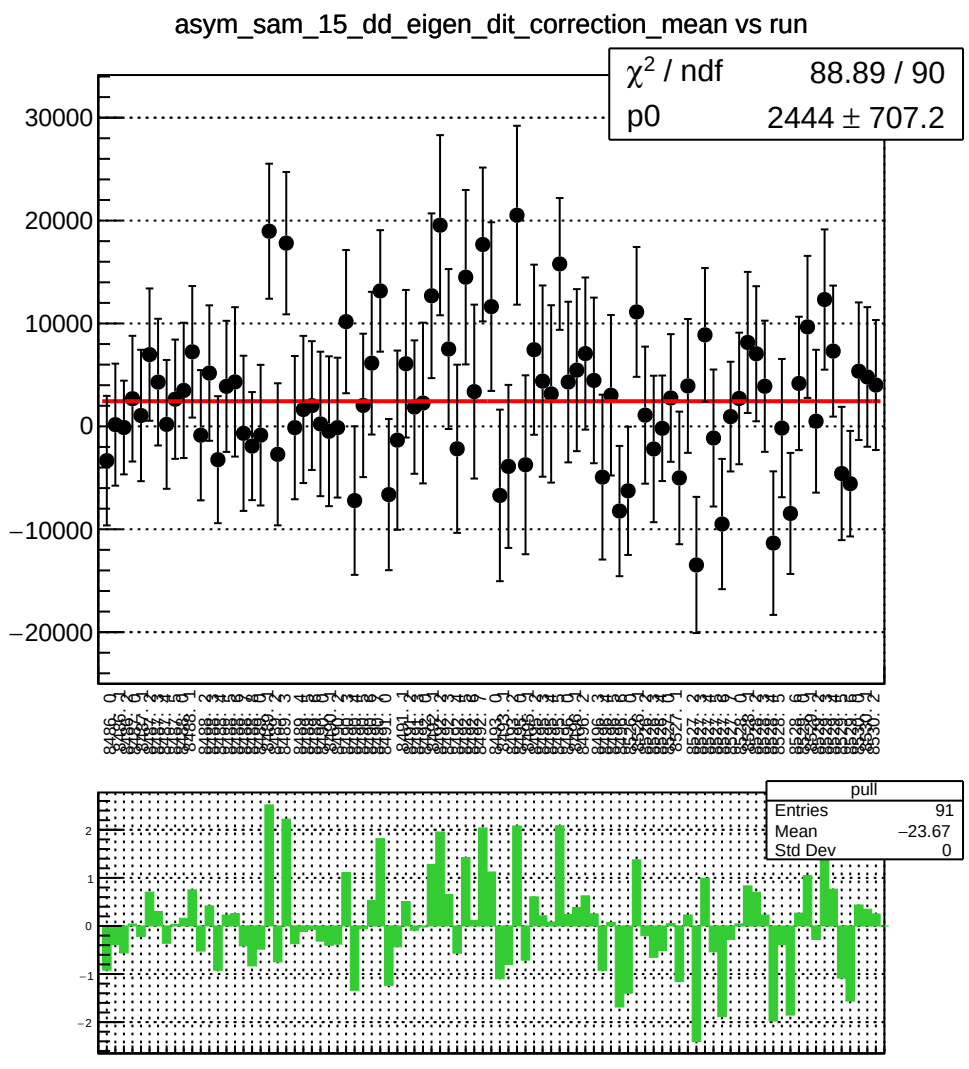

pull1D
Entries 91
Mean 0.02964
Std Dev 0.9879
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

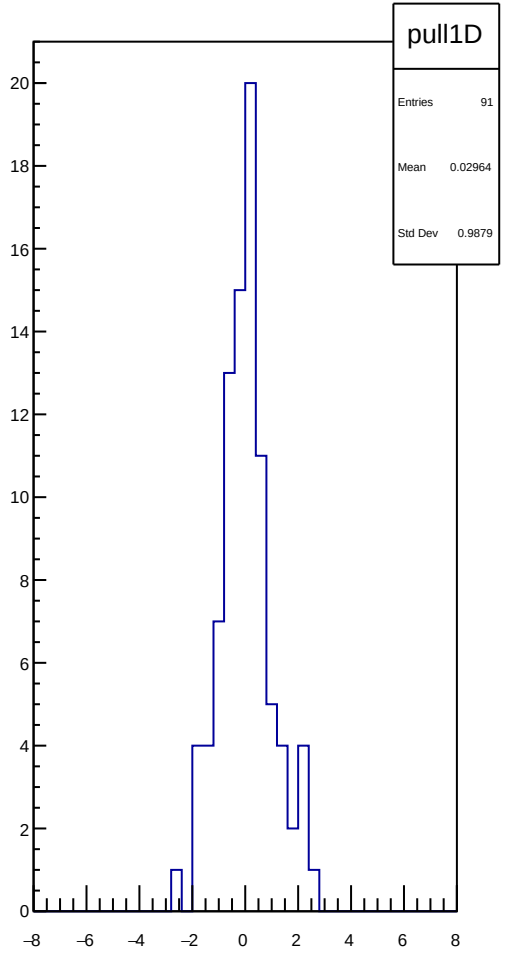

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 1.846e+04 / 90
p0 657.9 ± 0.5
900
850
800
750
700
650
600
550

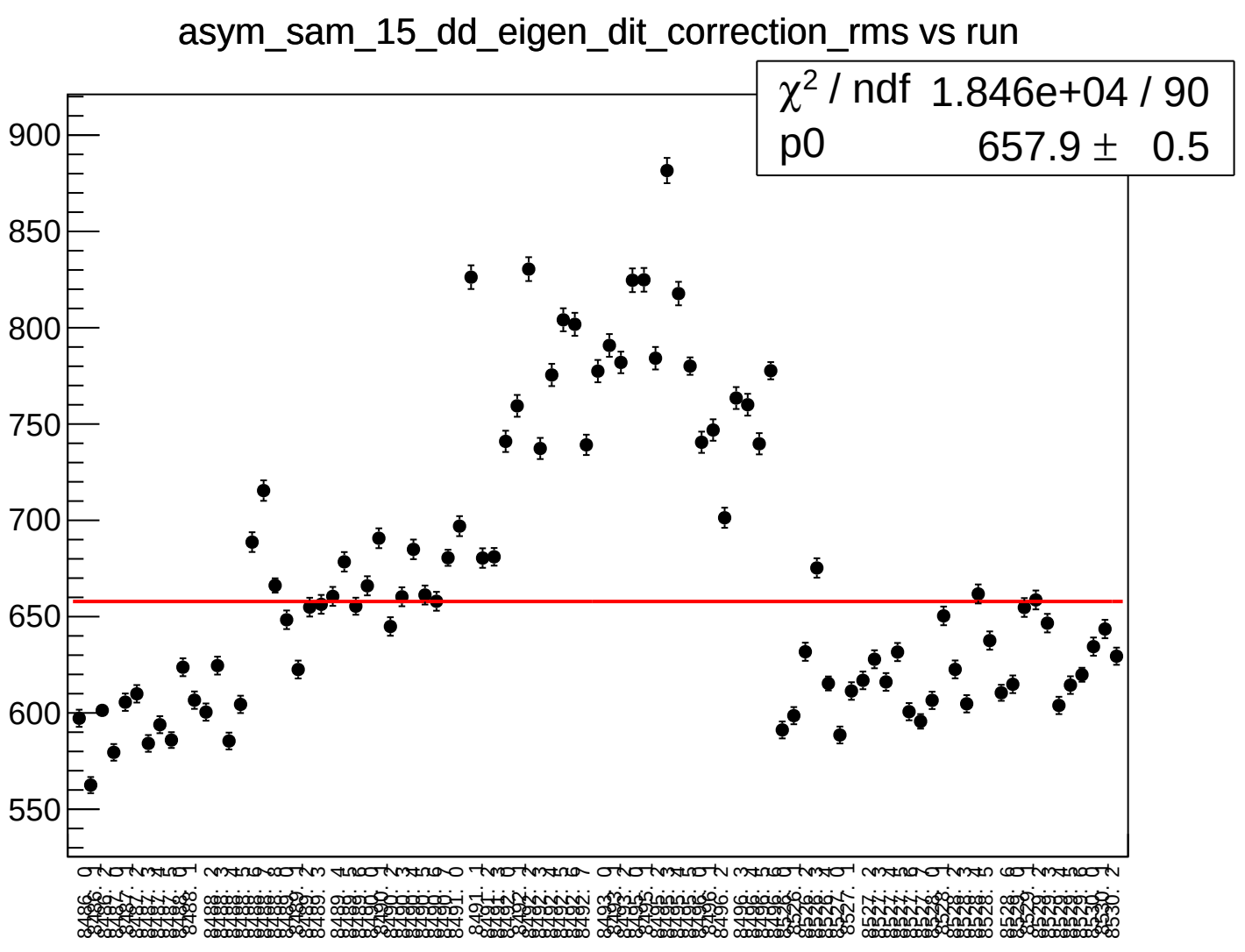

eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 110.2 / 90
p0 −19.47 ± 98.79
pull
Entries 91
Mean 2240
Std Dev 0

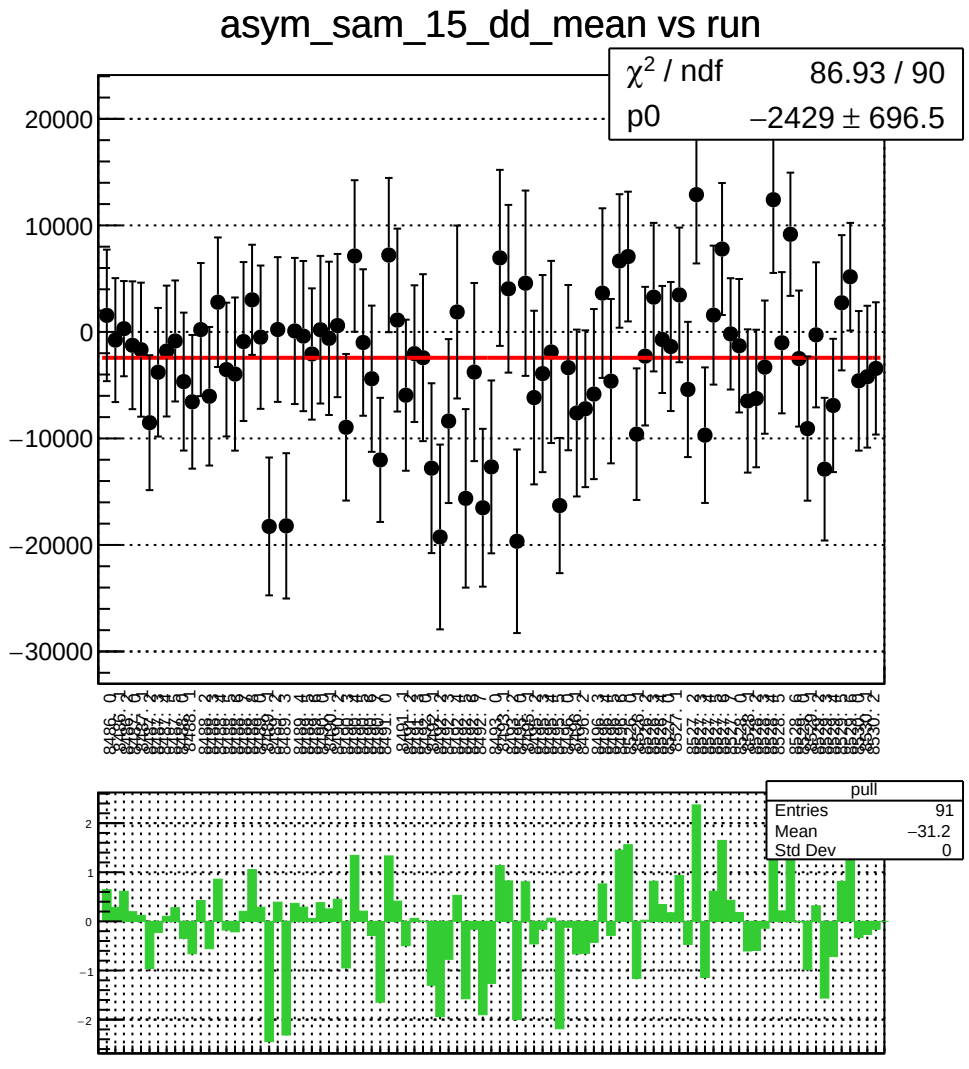

pull1D
Entries 91
Mean 0.001278
Std Dev 1.101

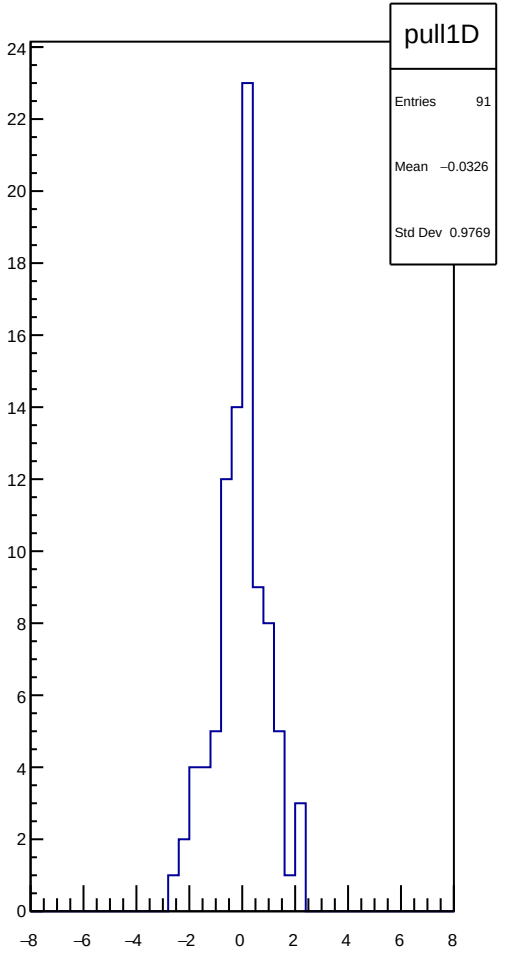

eigen_dit_asym_sam_15_dd_rms vs run
χ² / ndf 1539 / 90
p0 92.35 ± 0.06985
98
96
94
92
90
88
86
84
82

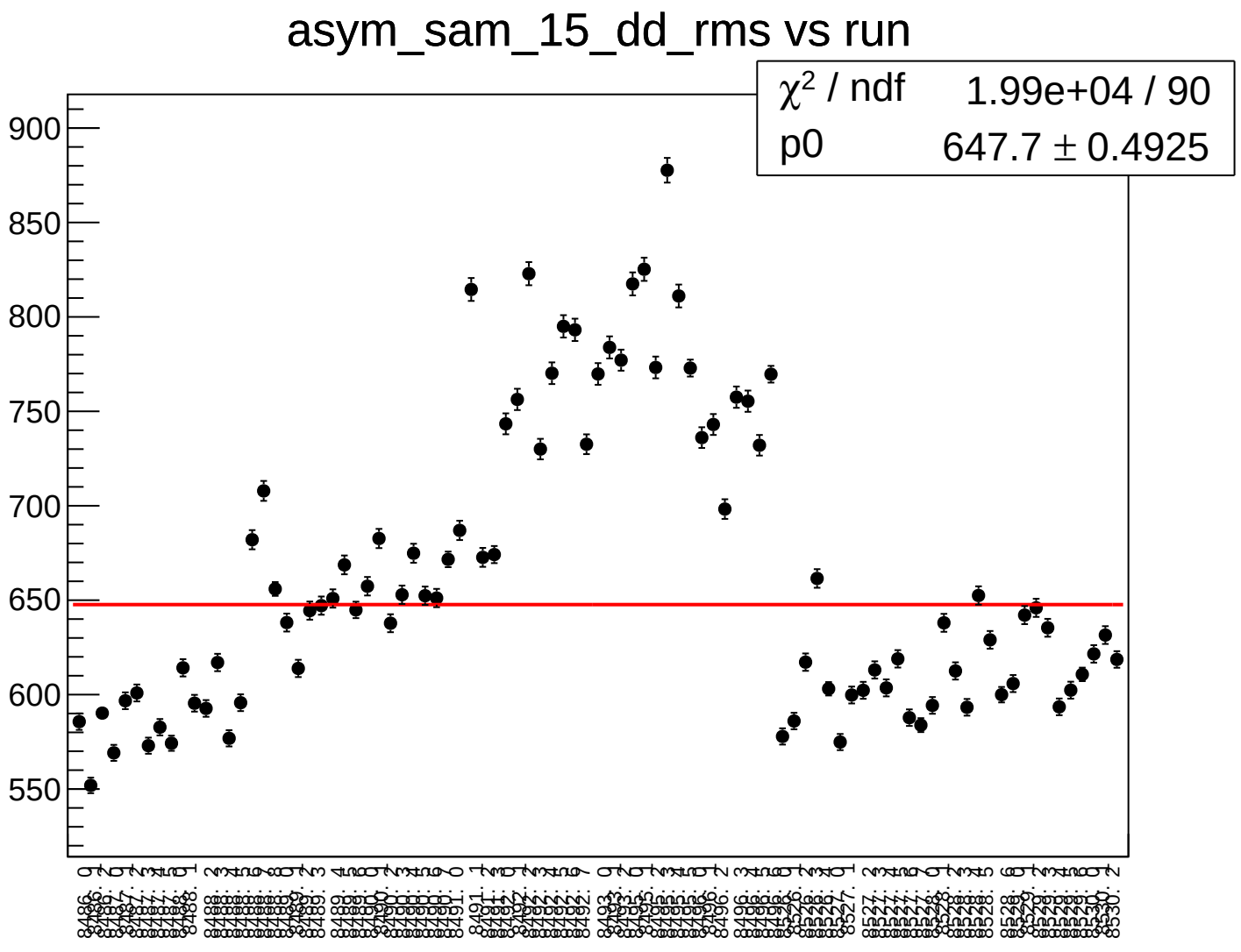

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 88.89 / 90
p0 2444 ± 707.2
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean −23.67
Std Dev 0
2
1
0
−1
−2

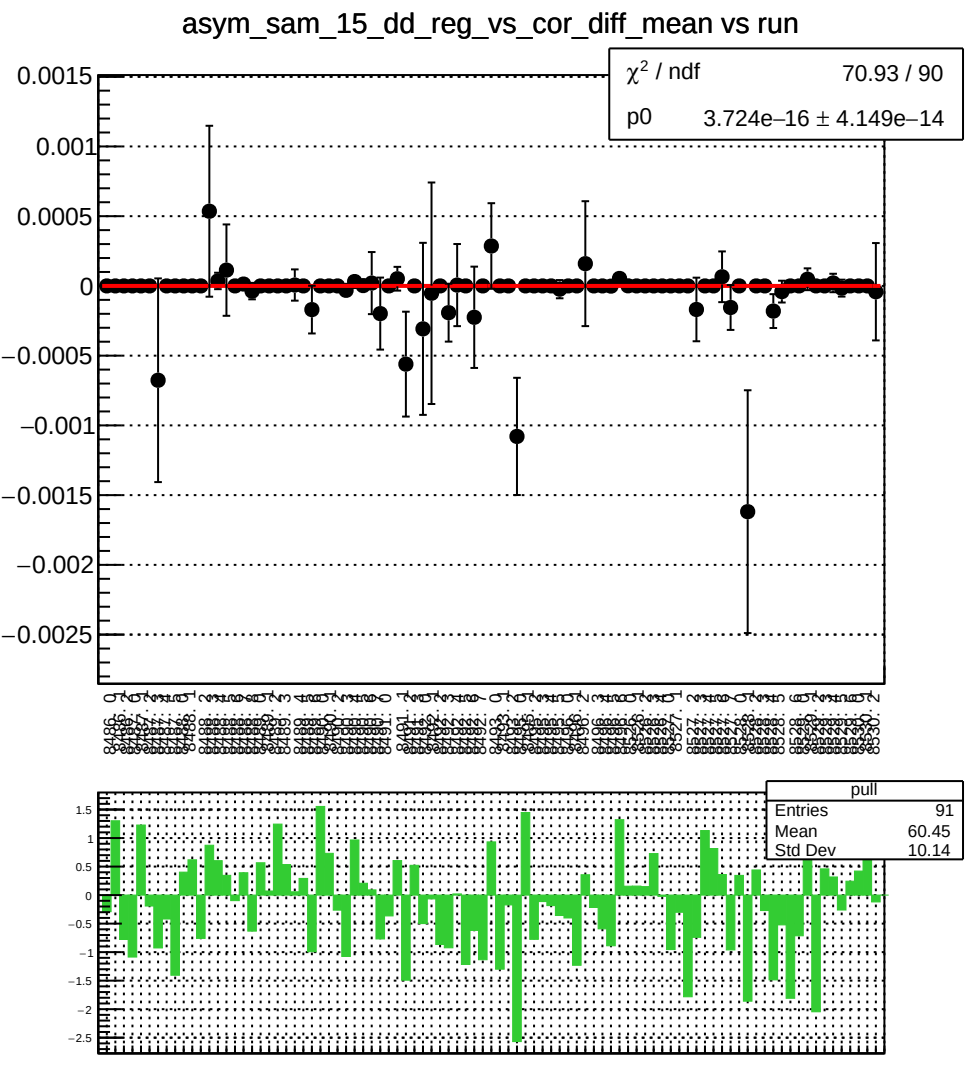

pull1D
Entries 91
Mean 0.02964
Std Dev 0.9879
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

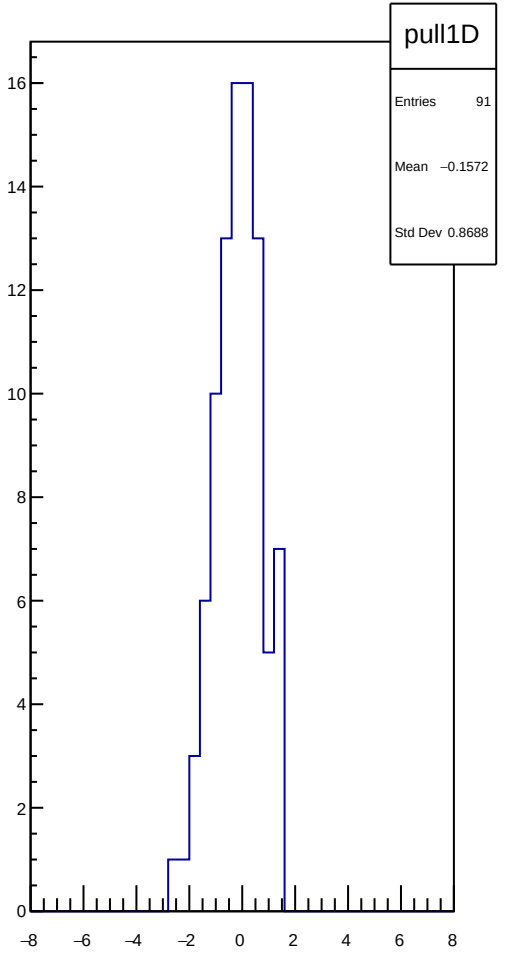

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.846e+04 / 90
p0 657.9 ± 0.5
900
850
800
750
700
650
600
550

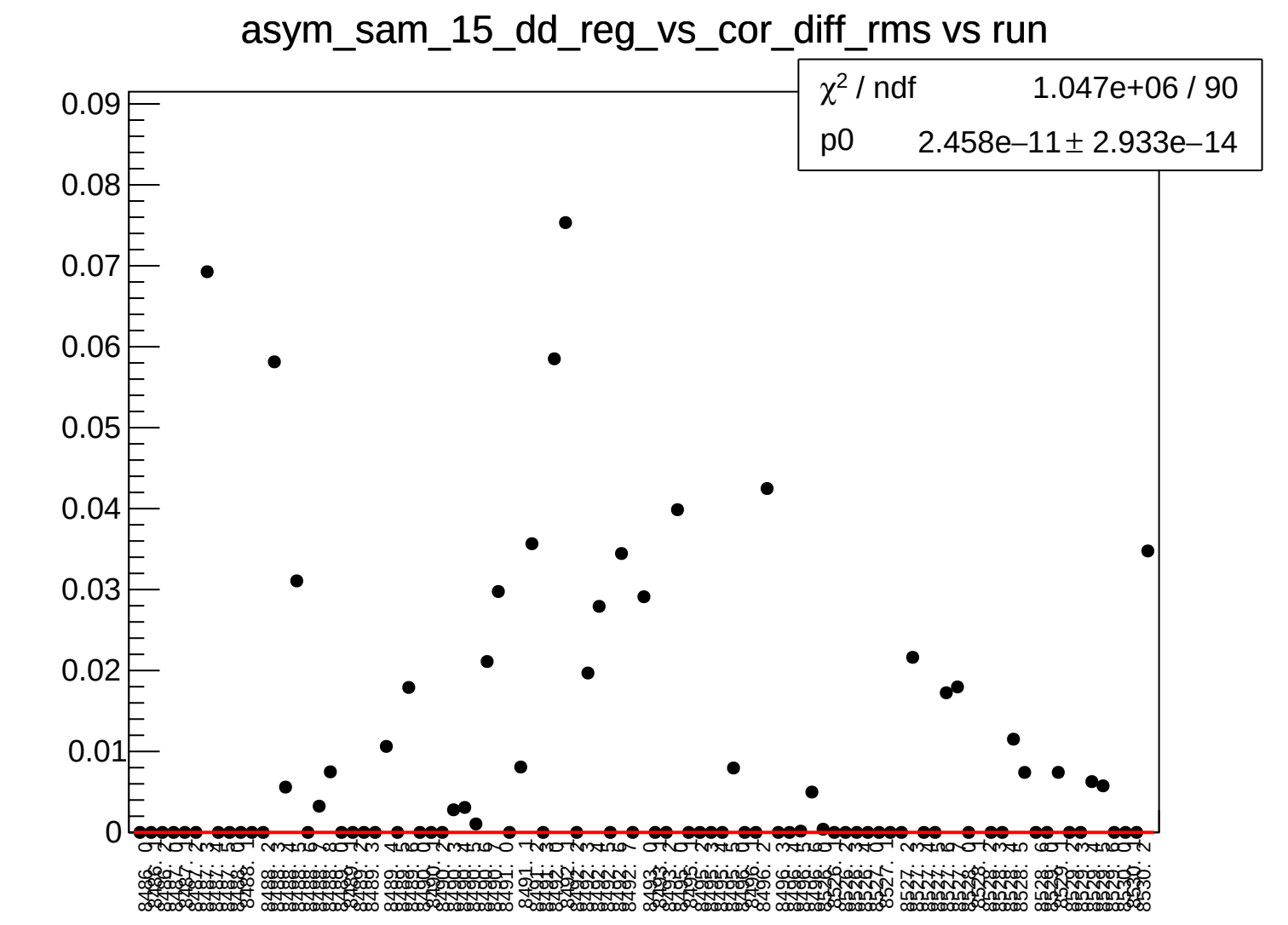

asym_sam_15_dd_mean vs run
χ² / ndf 86.93 / 90
p0 −2429 ± 696.5
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −31.2
Std Dev 0
2
1
0
−1
−2

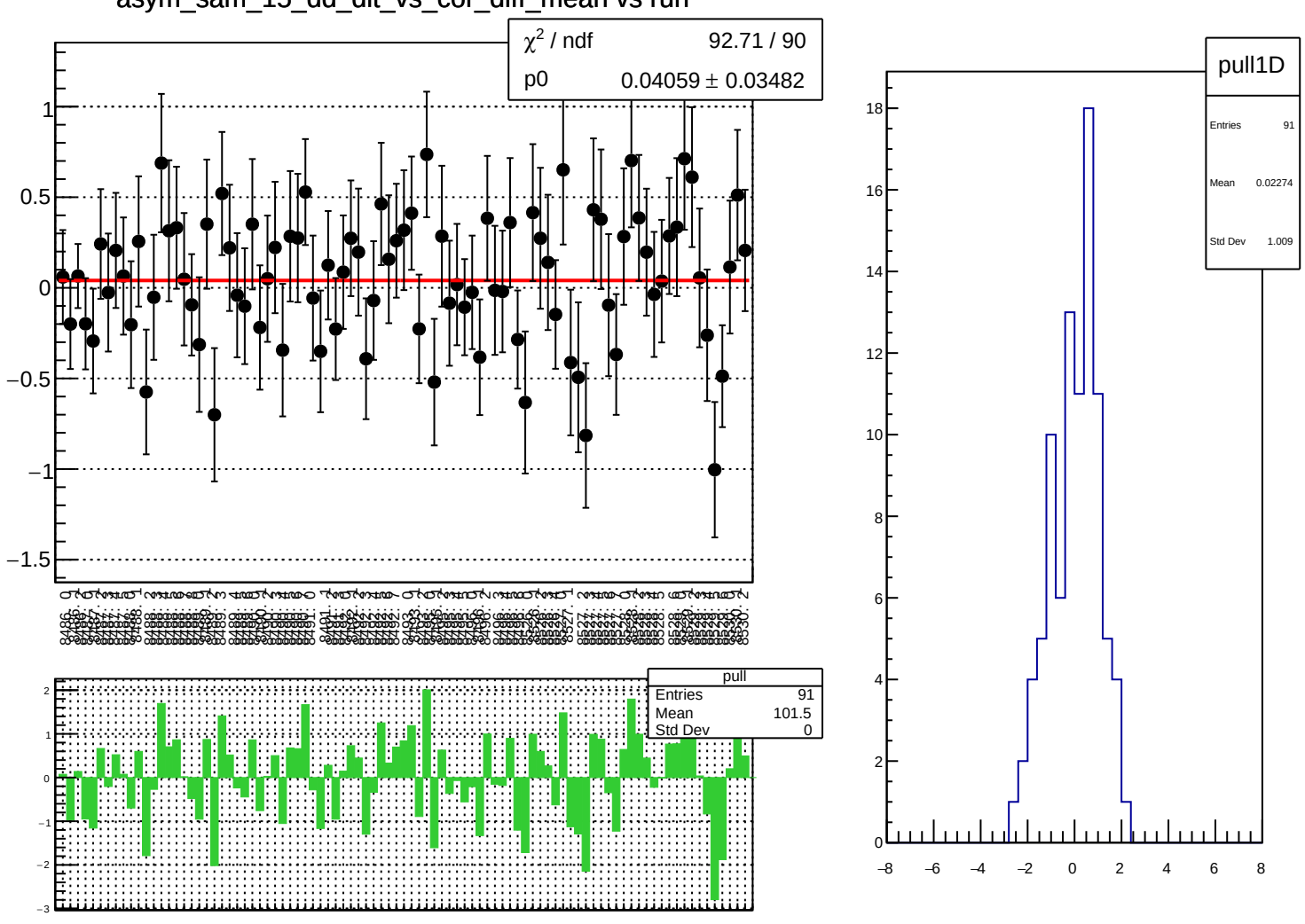

pull1D
Entries 91
Mean −0.0326
Std Dev 0.9769
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

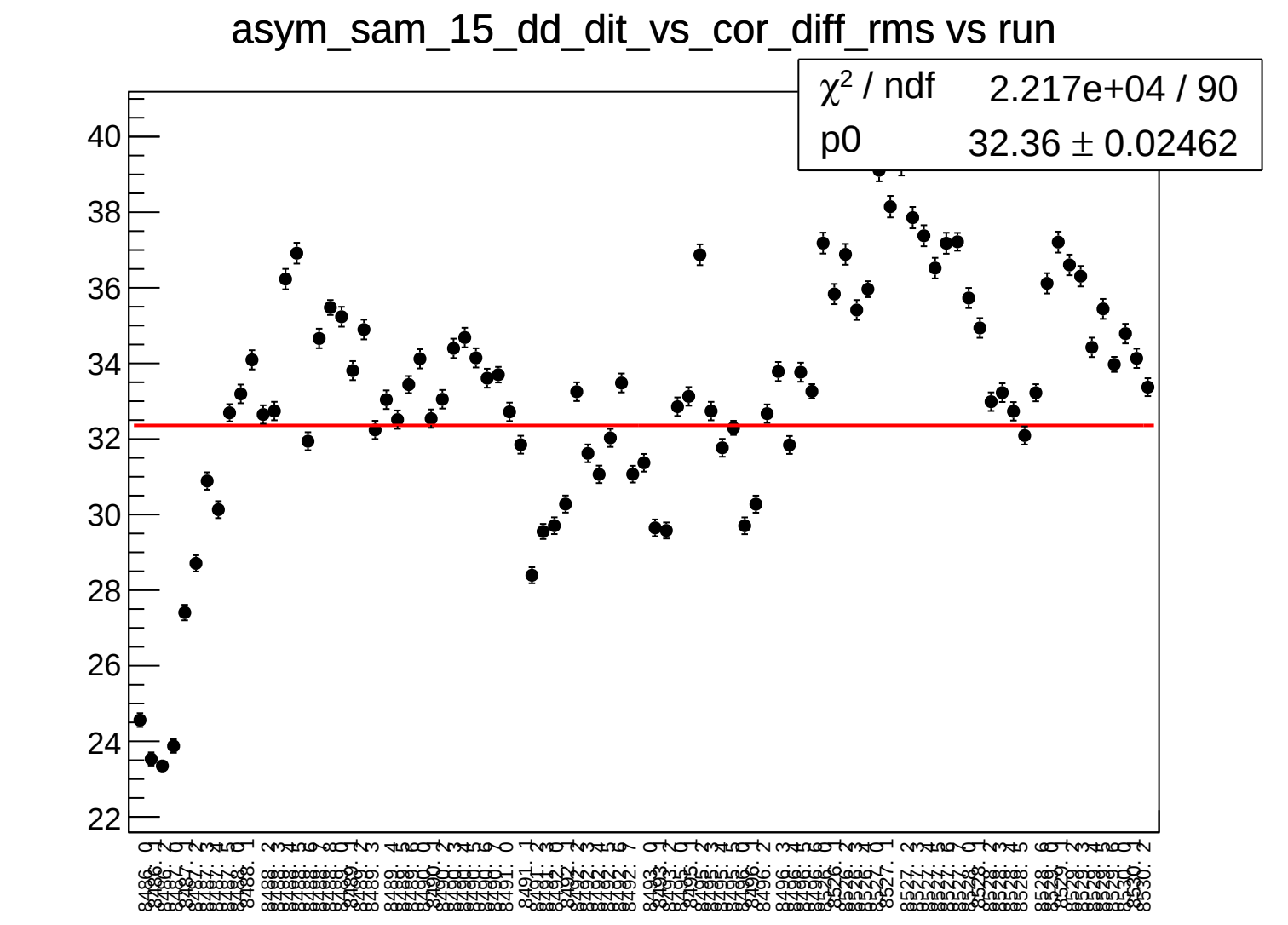

asym_sam_15_dd_rms vs run
χ^2 / ndf 1.99e+04 / 90
p0 647.7 ± 0.4925
900
850
800
750
700
650
600
550

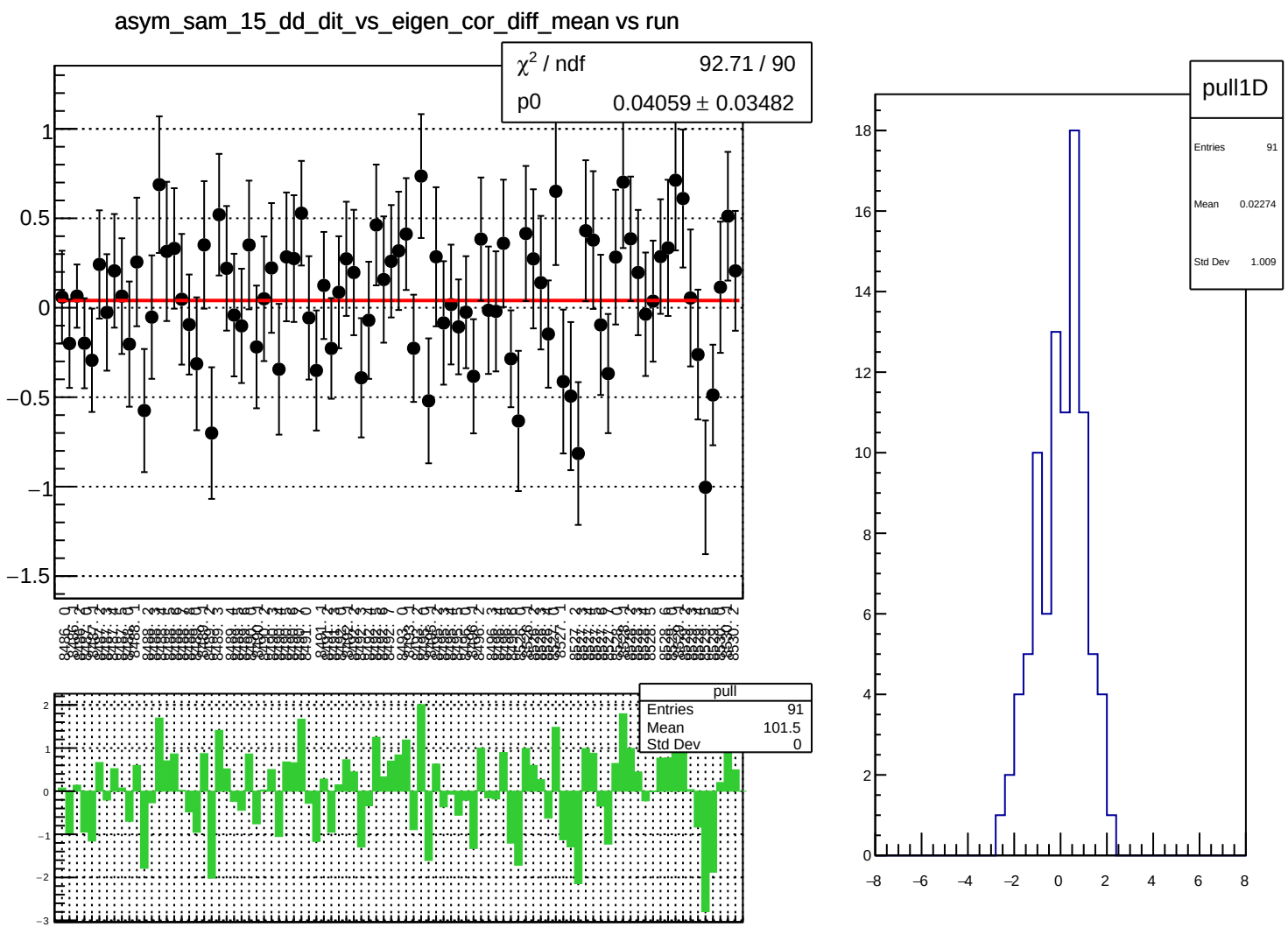

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 70.93 / 90
p0 3.724e−16 ± 4.149e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
−0.0025
pull
Entries 91
Mean 60.45
Std Dev 10.14
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

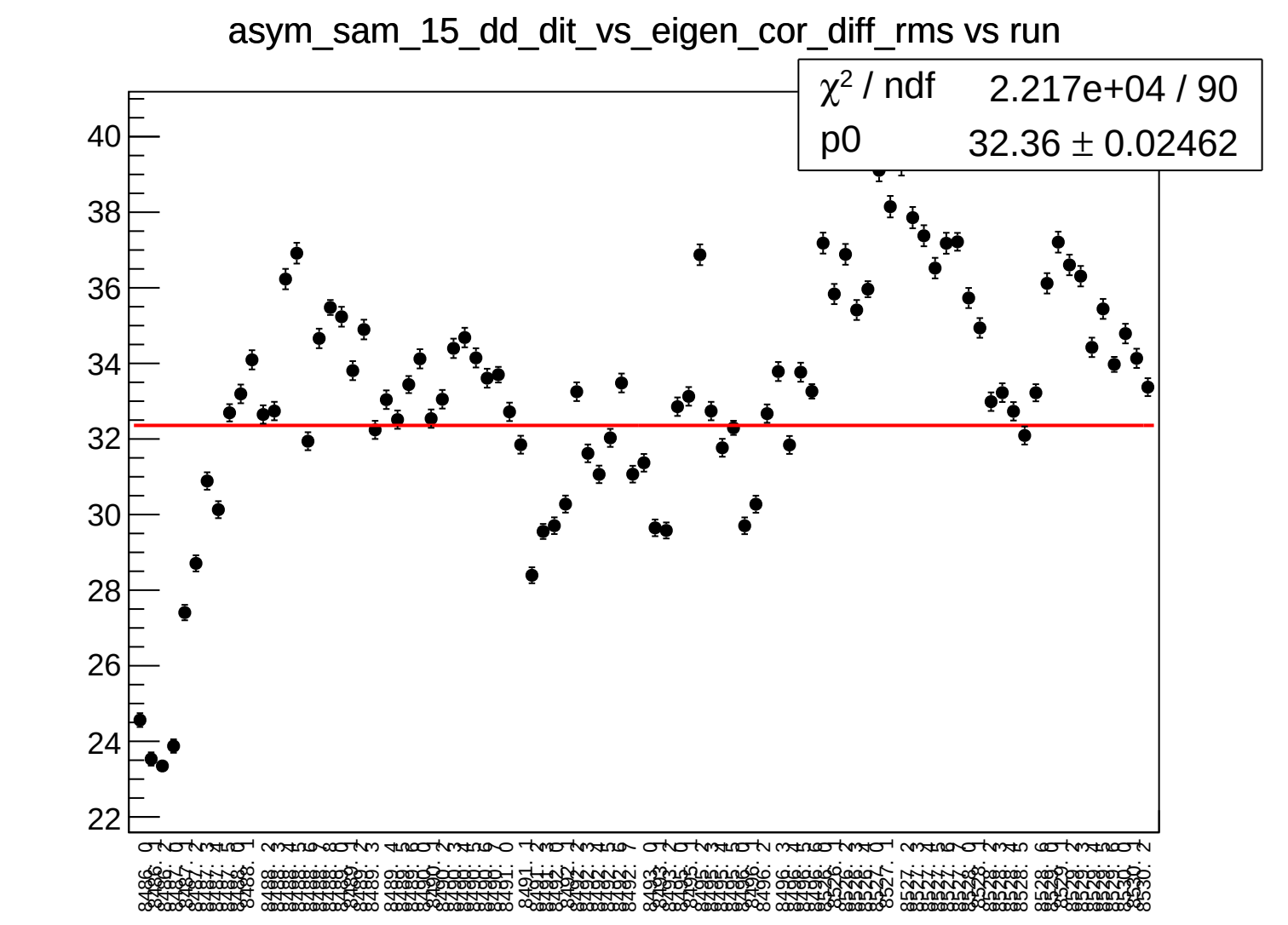

pull1D
Entries 91
Mean −0.1572
Std Dev 0.8688
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

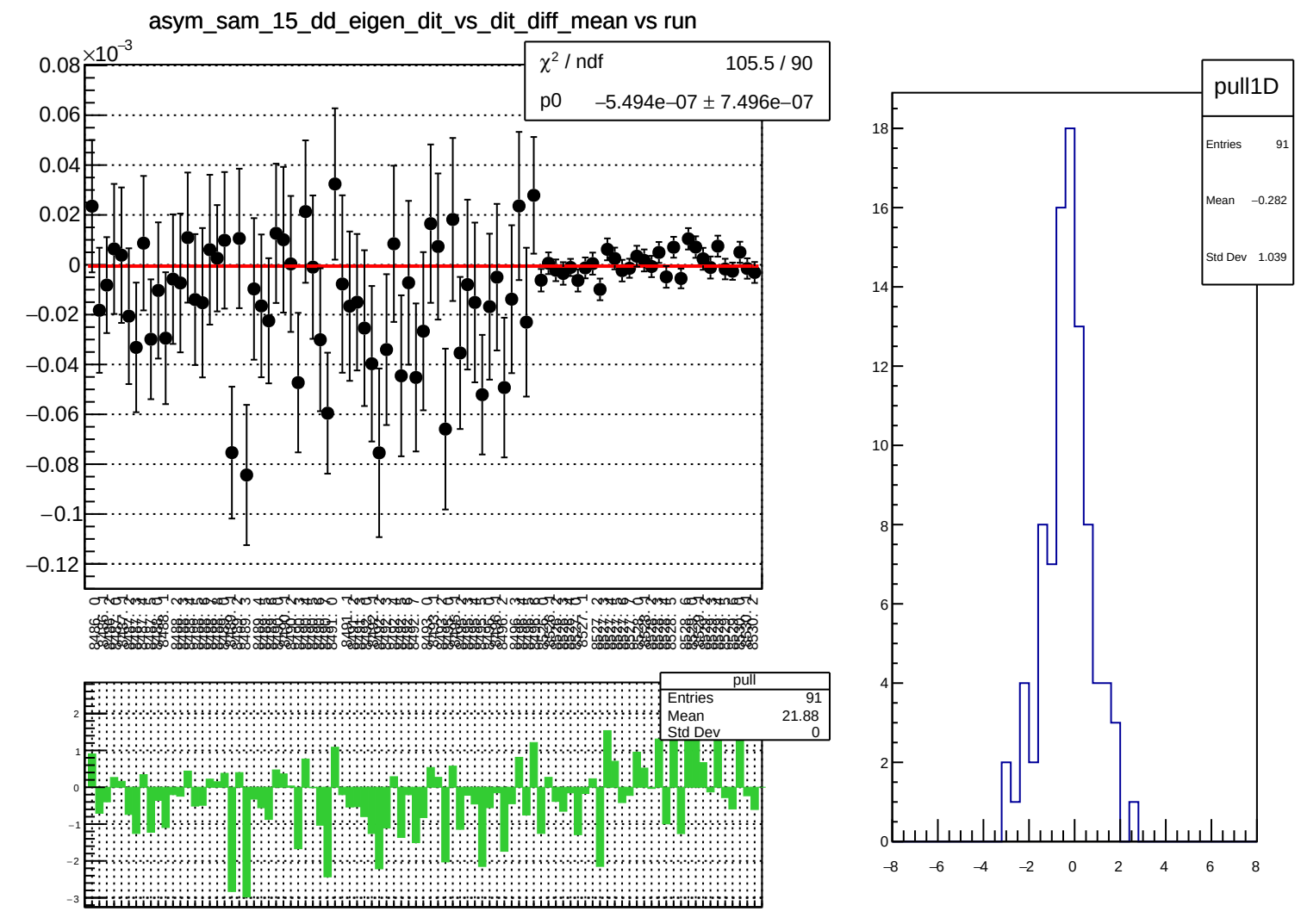

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.047e+06 / 90
p0 2.458e−11 ± 2.933e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

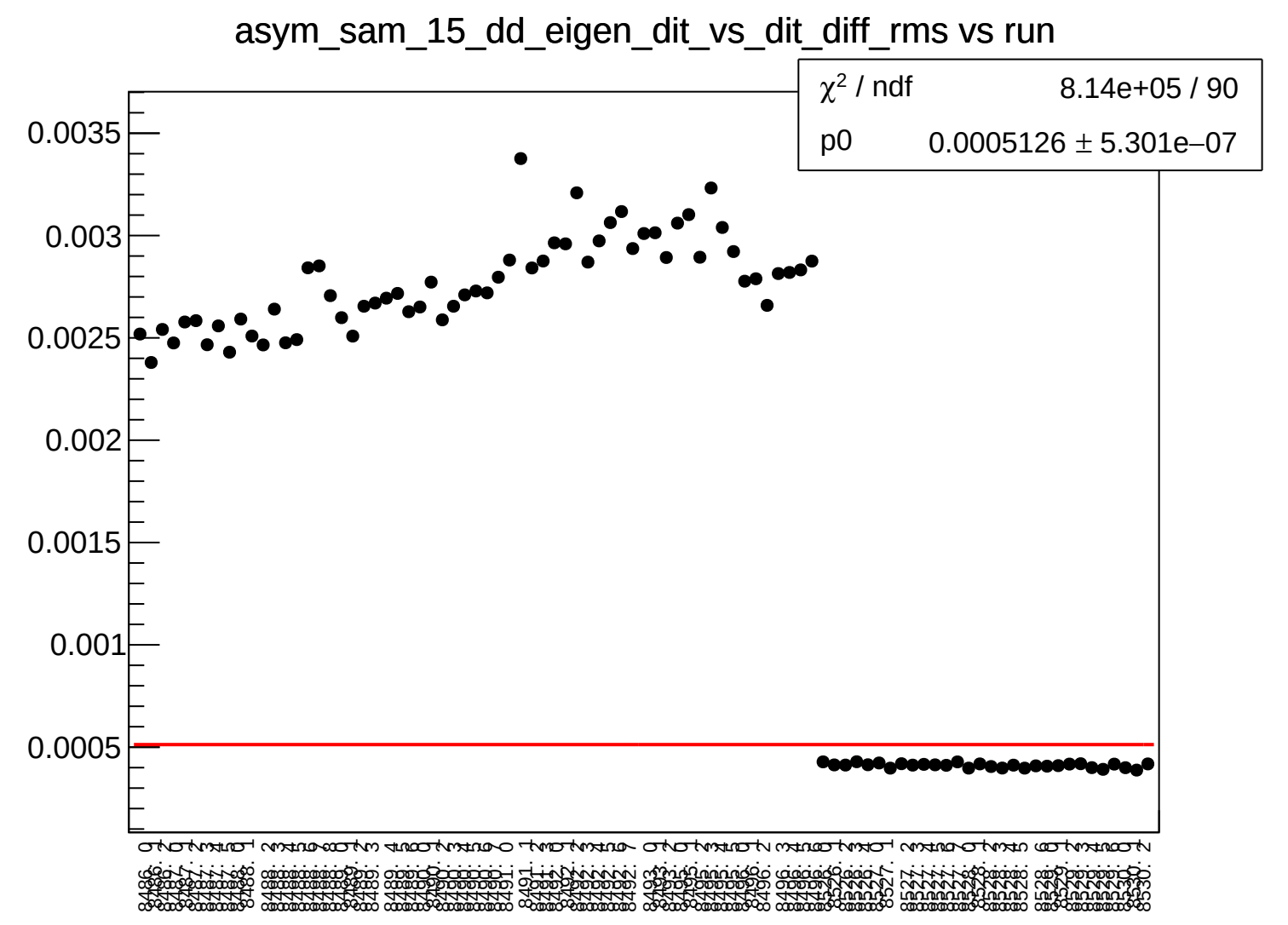

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 92.71 / 90
p0 0.04059 ± 0.03482
pull
Entries 91
Mean 101.5
Std Dev 0
pull1D
Entries 91
Mean 0.02274
Std Dev 1.009

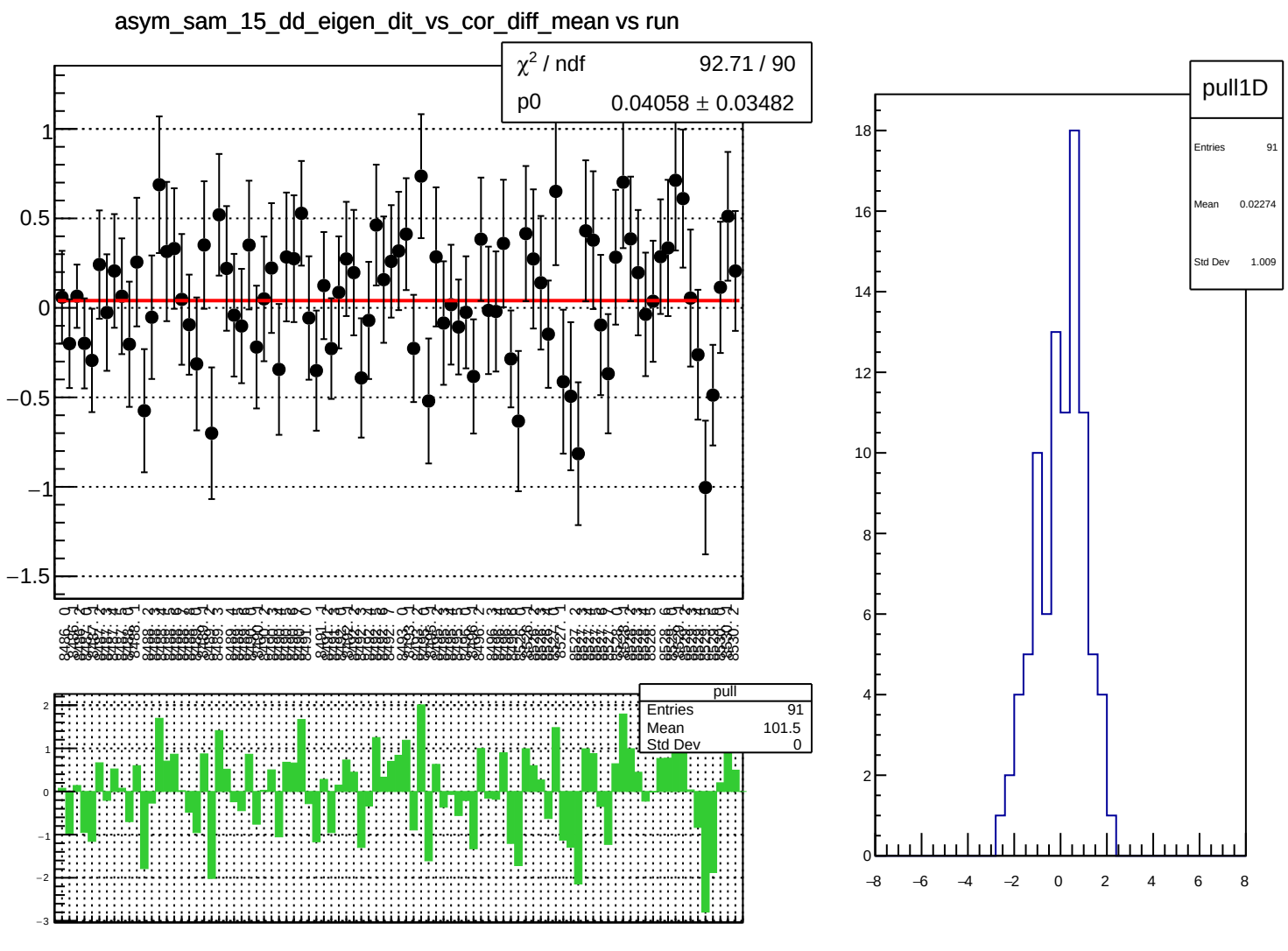

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.217e+04 / 90
p0 32.36 ± 0.02462
40
38
36
34
32
30
28
26
24
22

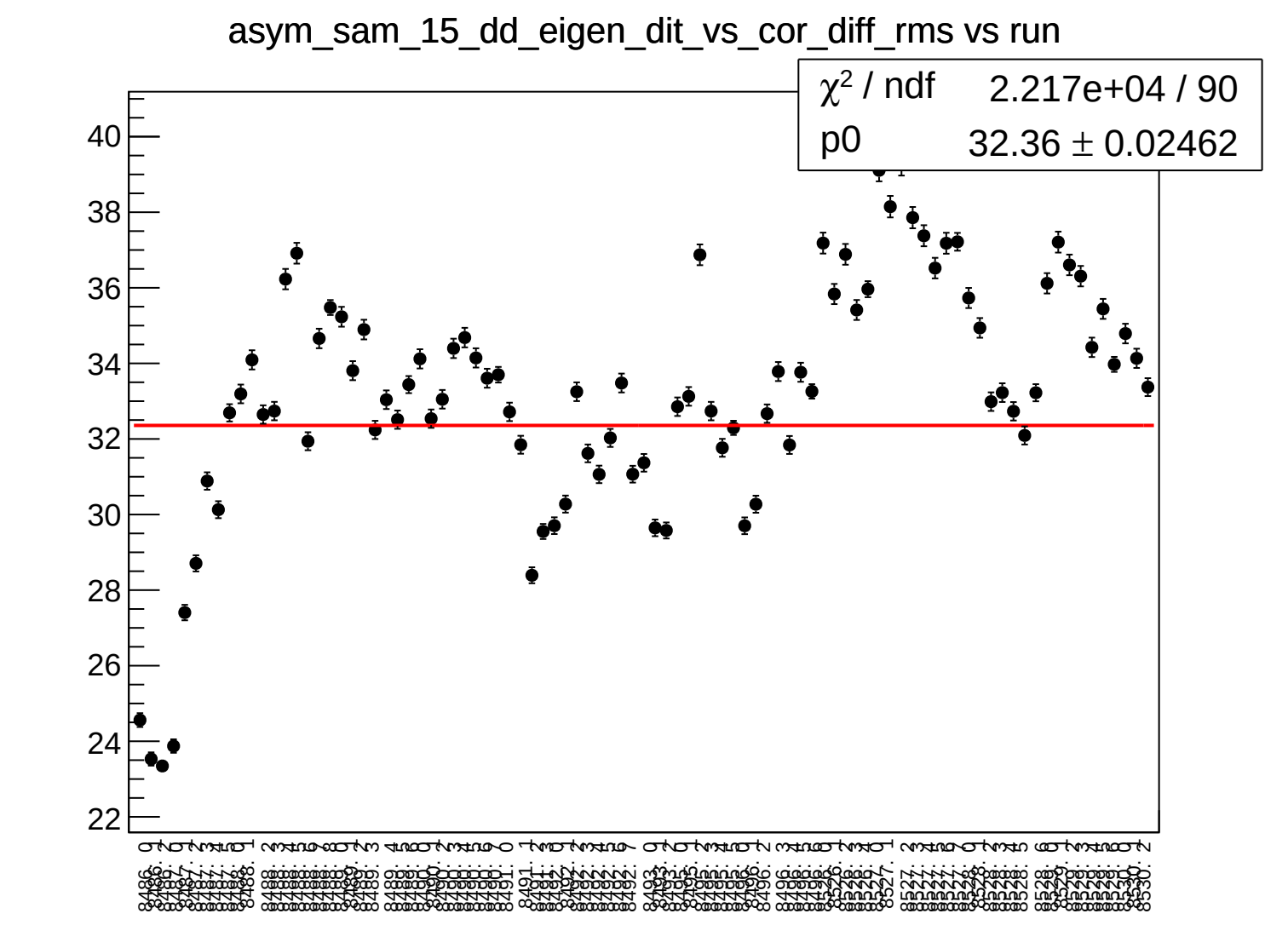

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.71 / 90
p0 0.04059 ± 0.03482
pull
Entries 91
Mean 101.5
Std Dev 0
pull1D
Entries 91
Mean 0.02274
Std Dev 1.009

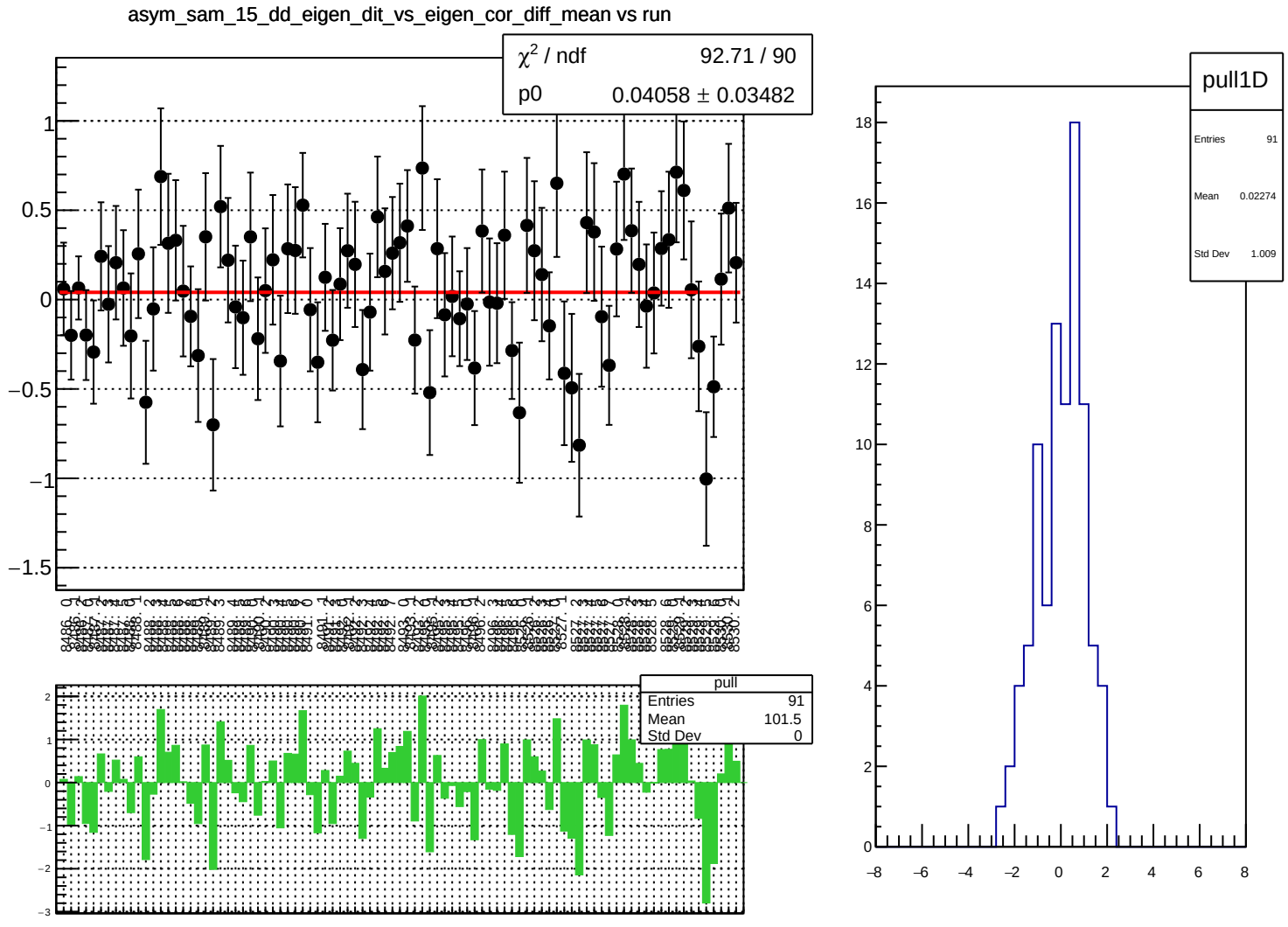

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.217e+04 / 90
p0 32.36 ± 0.02462
40
38
36
34
32
30
28
26
24
22

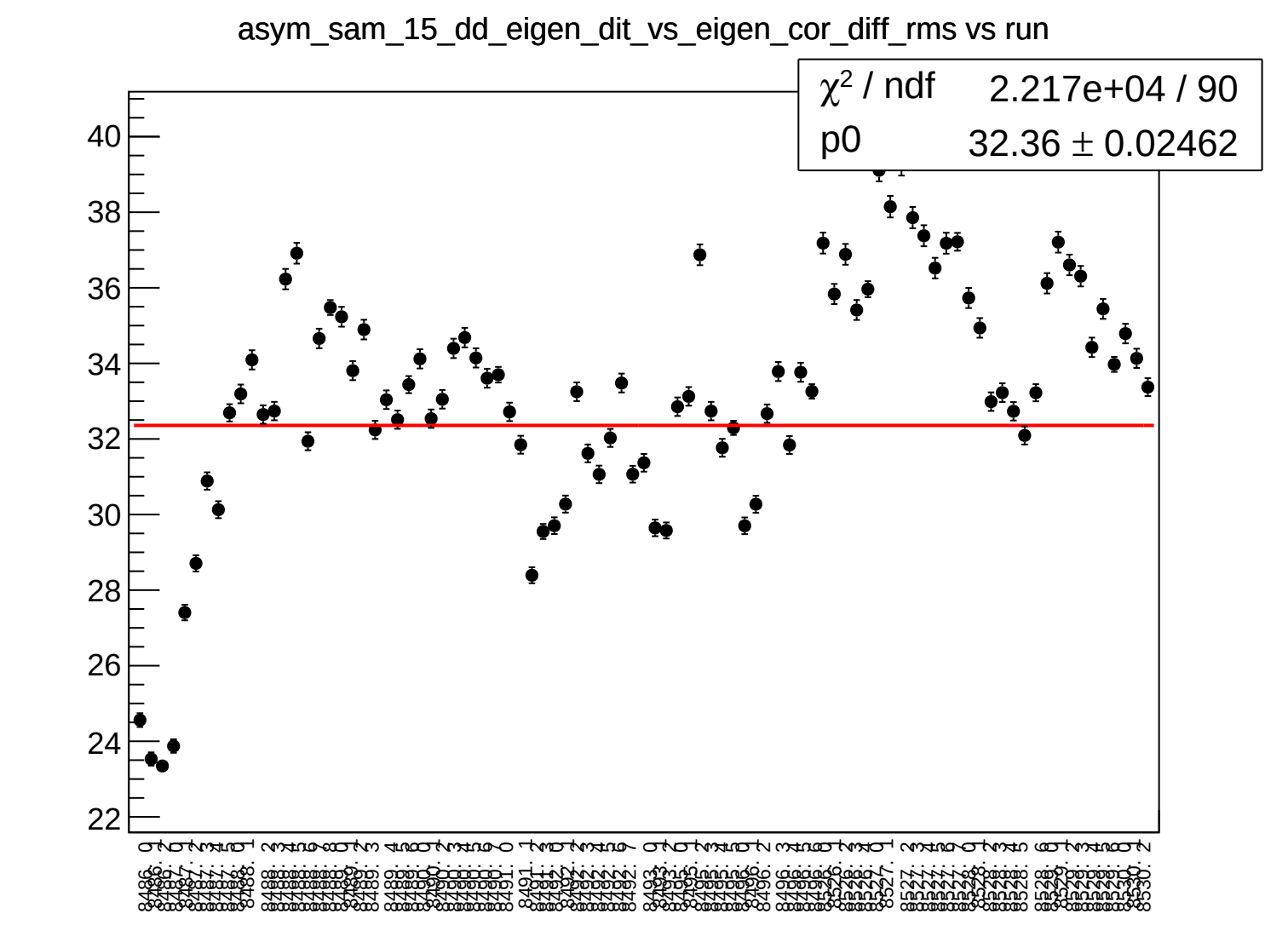

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 105.5 / 90
p0 −5.494e−07 ± 7.496e−07
×10⁻³
pull
Entries 91
Mean 21.88
Std Dev 0
pull1D
Entries 91
Mean −0.282
Std Dev 1.039

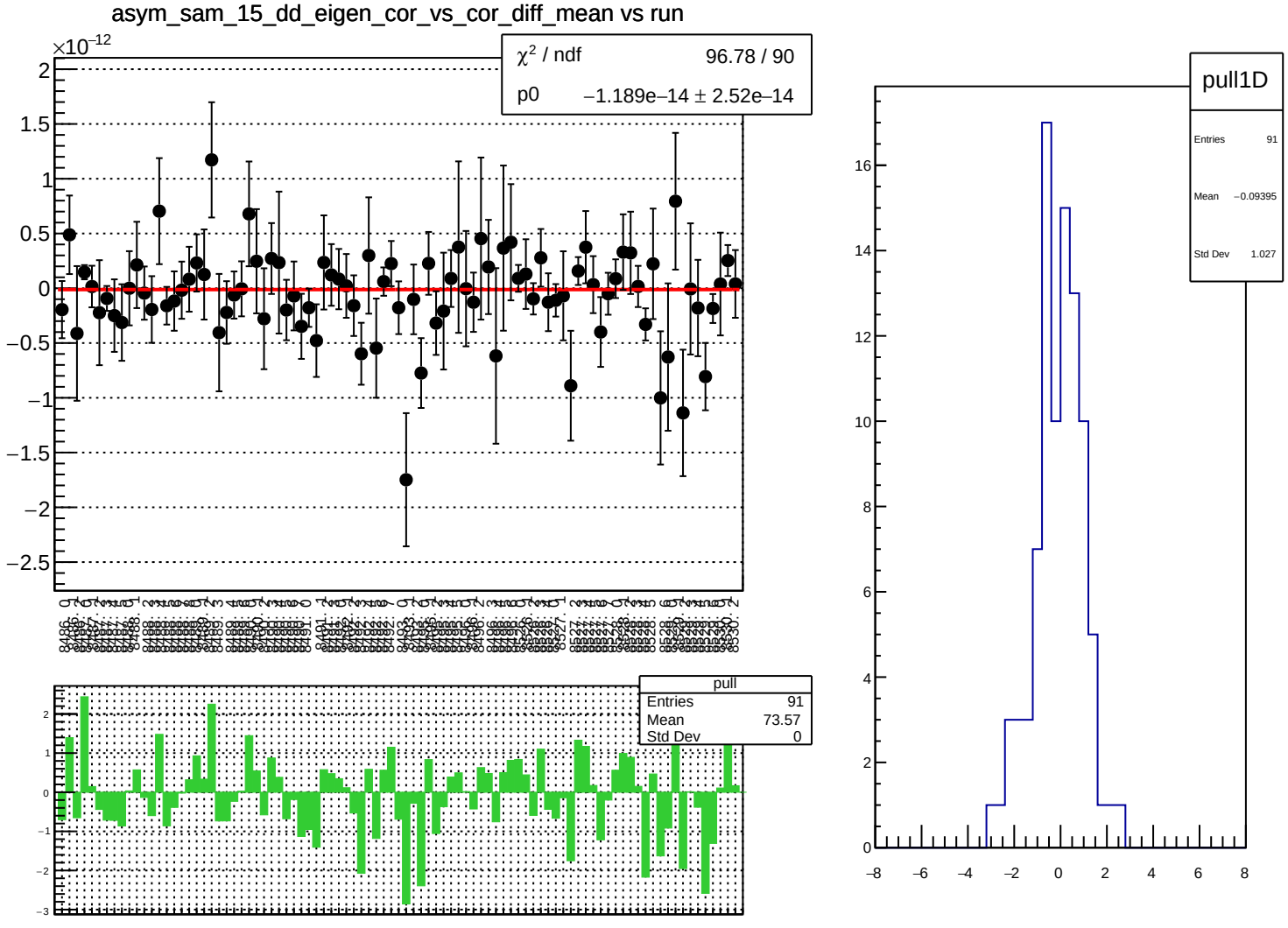

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.14e+05 / 90
p0 0.0005126 ± 5.301e−07
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005

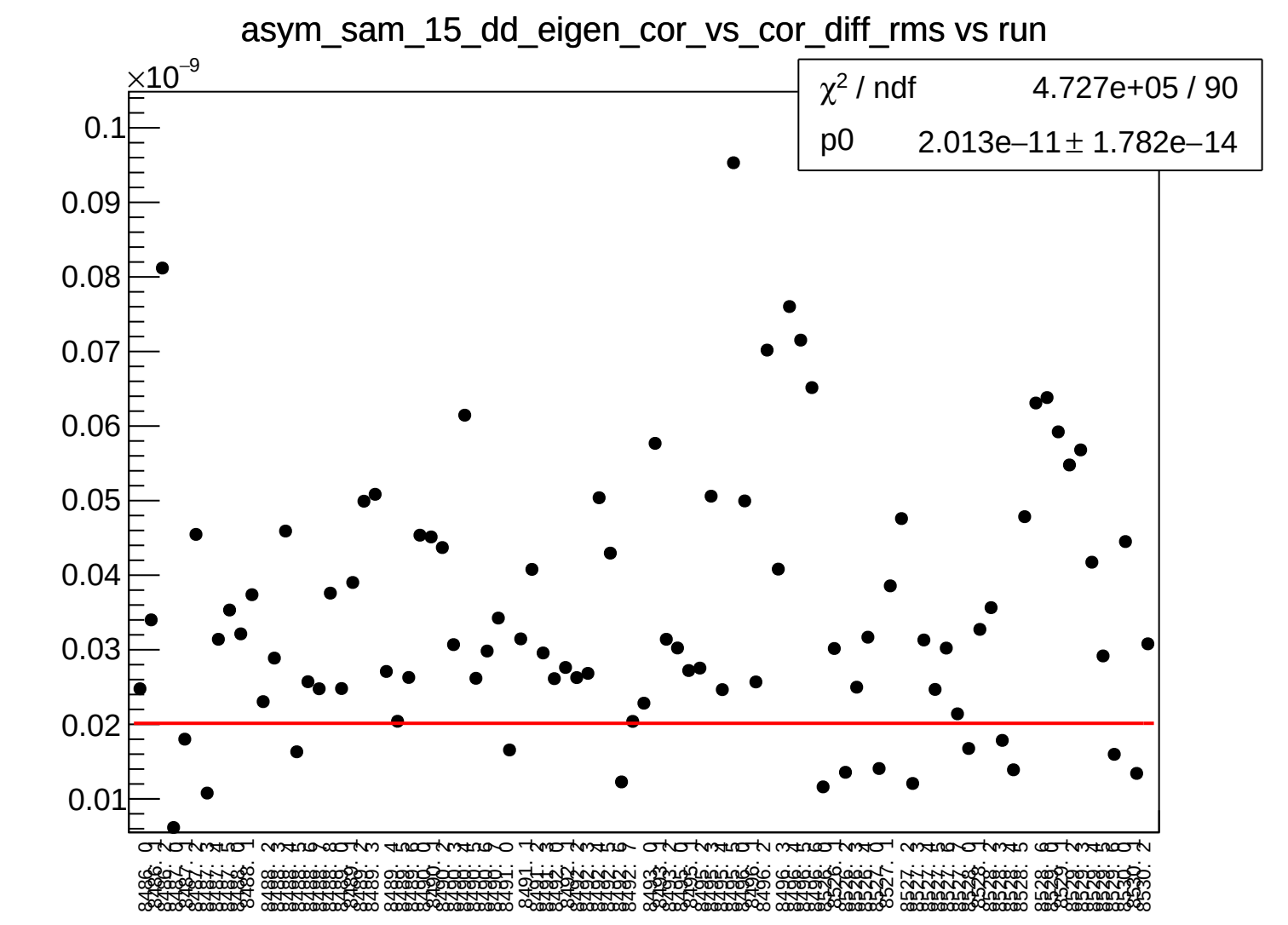

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.71 / 90
p0 0.04058 ± 0.03482
pull
Entries 91
Mean 101.5
Std Dev 0
pull1D
Entries 91
Mean 0.02274
Std Dev 1.009

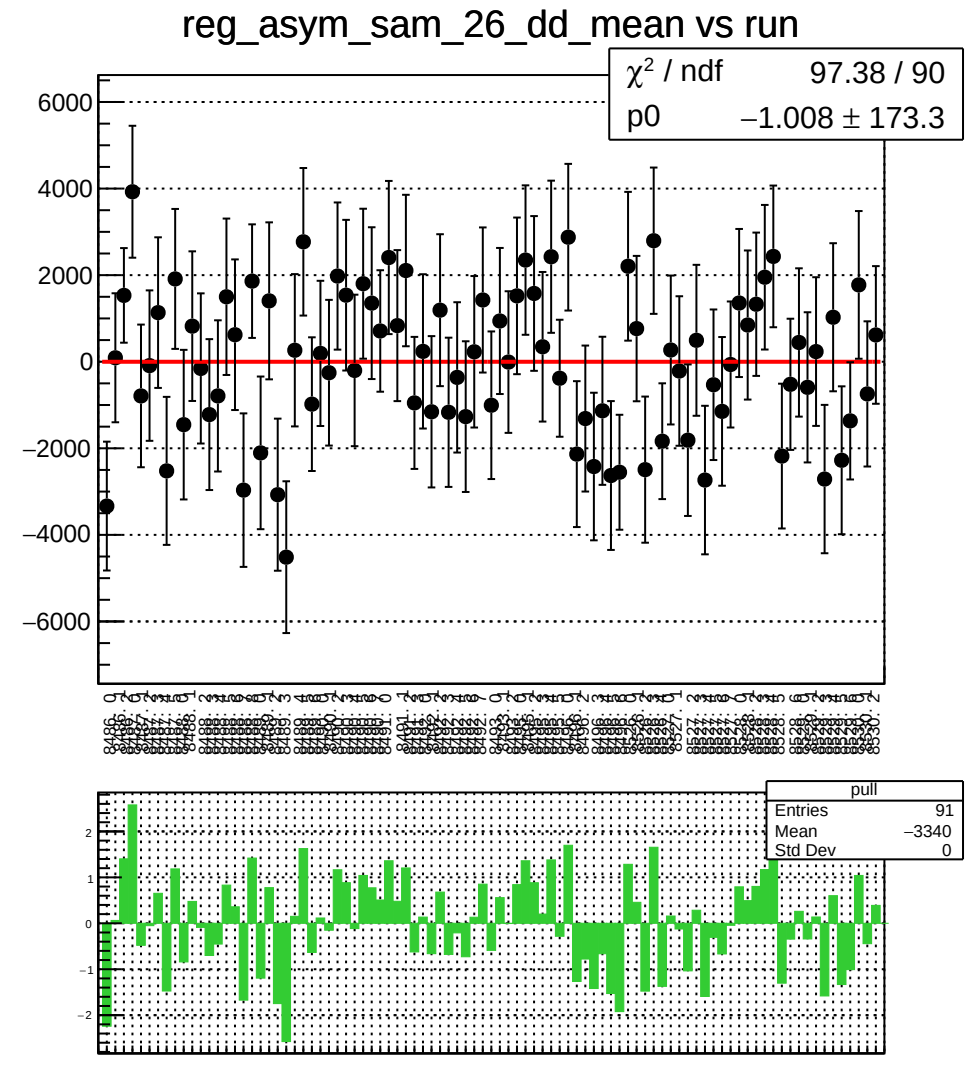

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.217e+04 / 90
p0 32.36 ± 0.02462
40
38
36
34
32
30
28
26
24
22

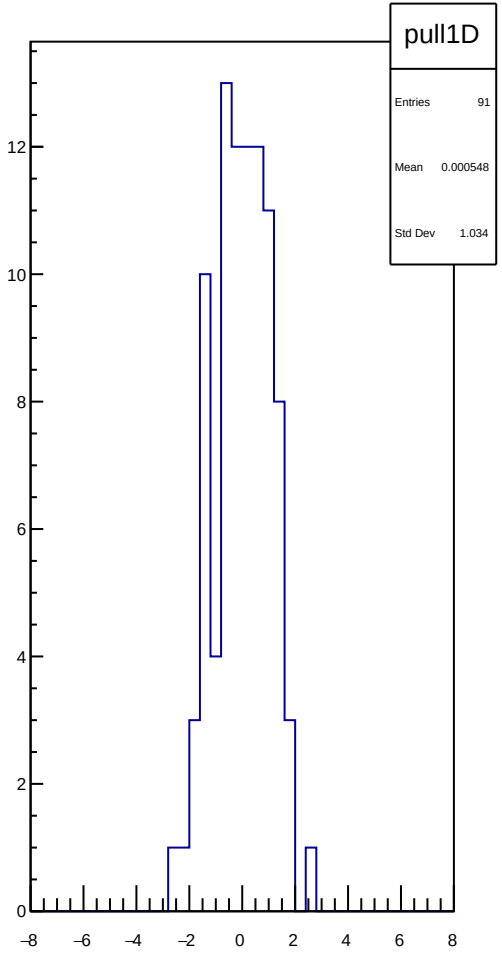

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.71 / 90
p0 0.04058 ± 0.03482
pull
Entries 91
Mean 101.5
Std Dev 0
pull1D
Entries 91
Mean 0.02274
Std Dev 1.009

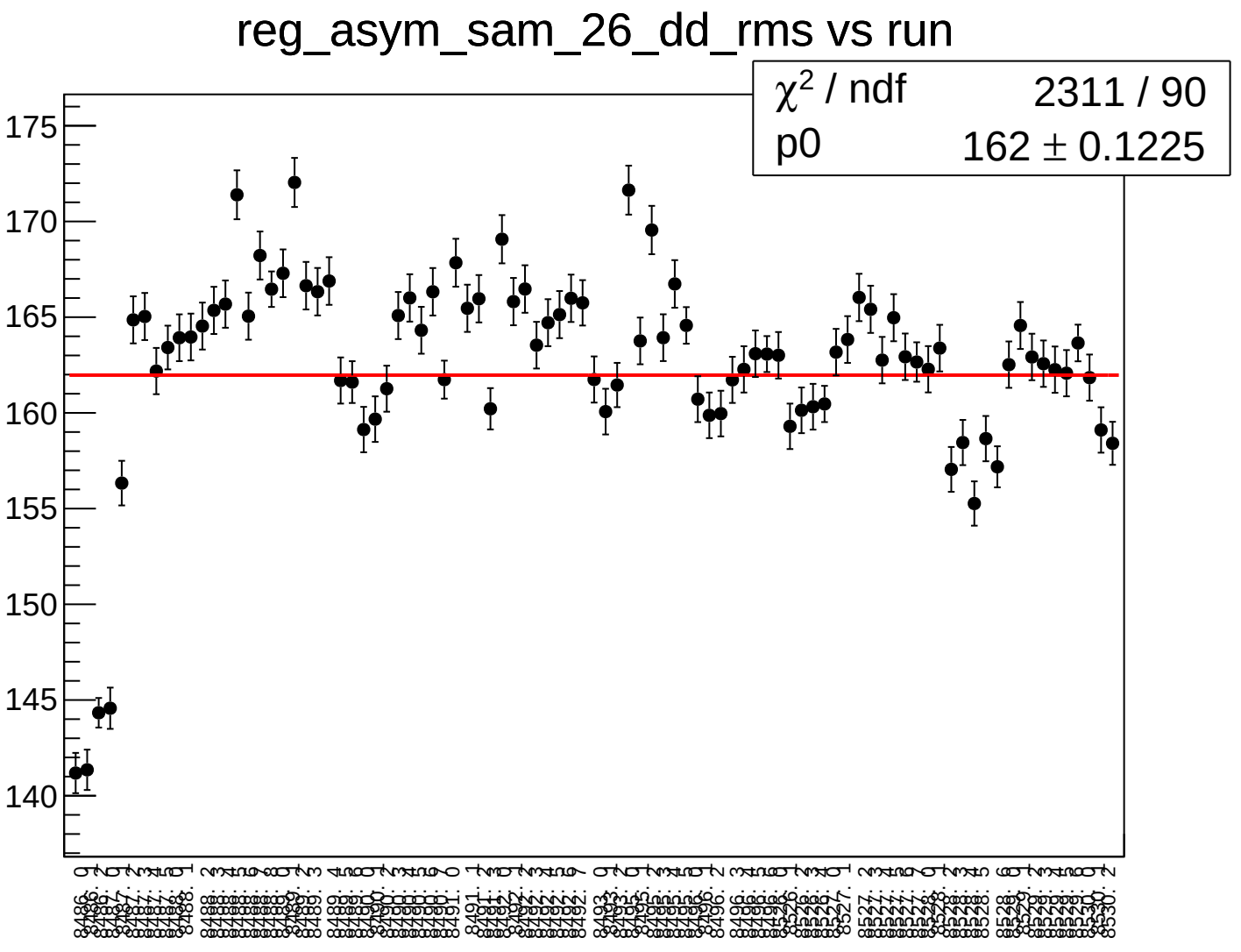

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.217e+04 / 90
p0 32.36 ± 0.02462
40
38
36
34
32
30
28
26
24
22

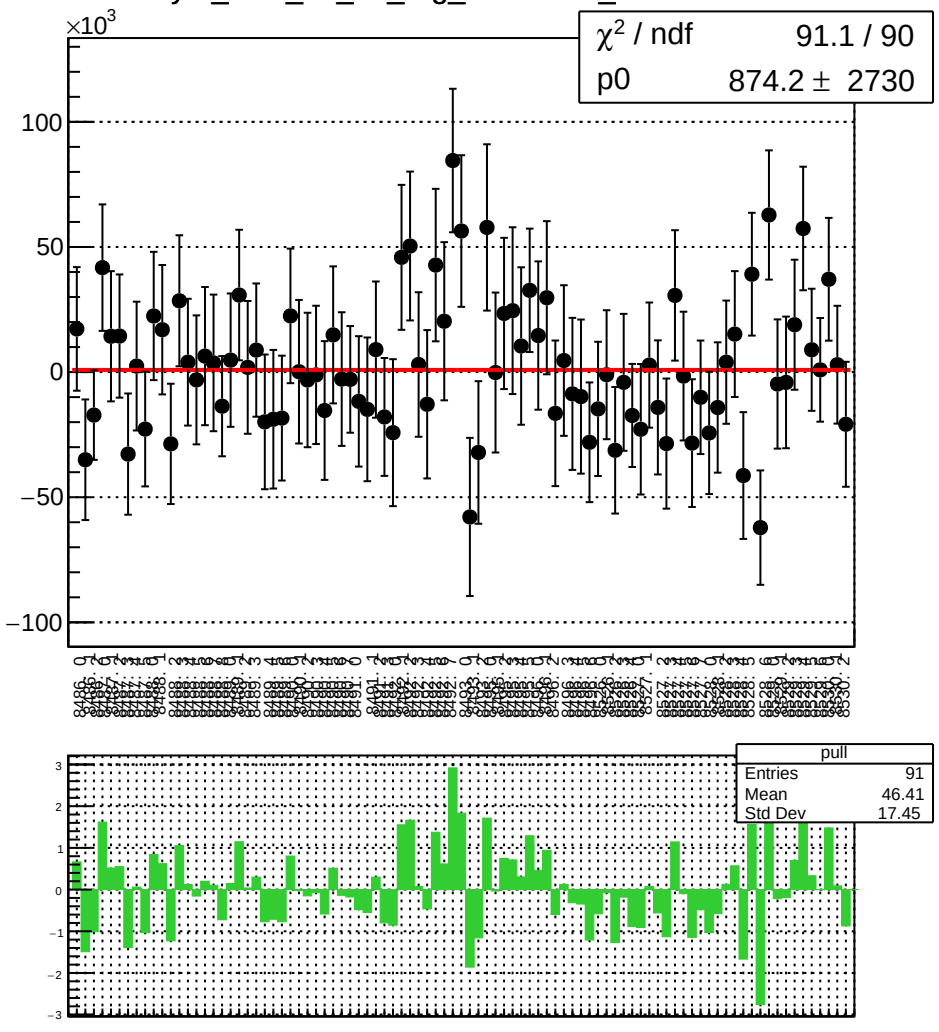

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.78 / 90
p0 −1.189e−14 ± 2.52e−14
pull
Entries 91
Mean 73.57
Std Dev 0
pull1D
Entries 91
Mean −0.09395
Std Dev 1.027

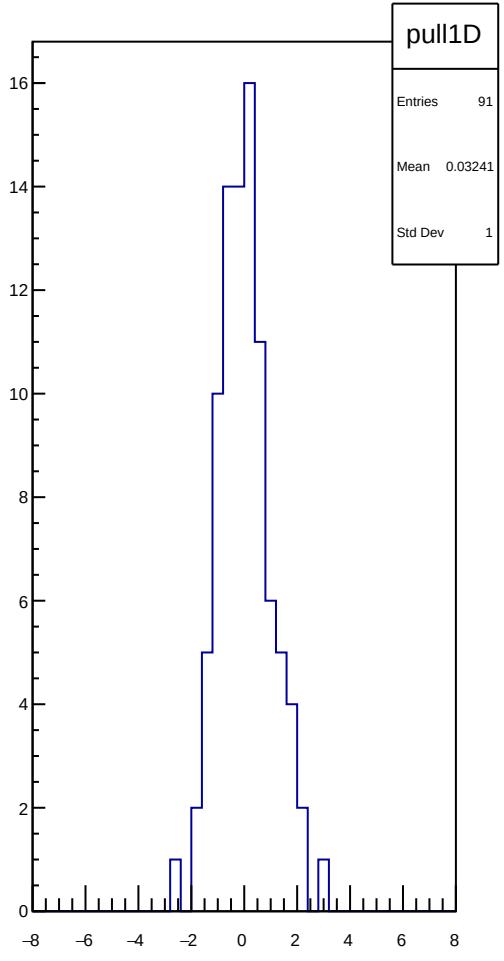

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.727e+05 / 90
p0 2.013e−11 ± 1.782e−14
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

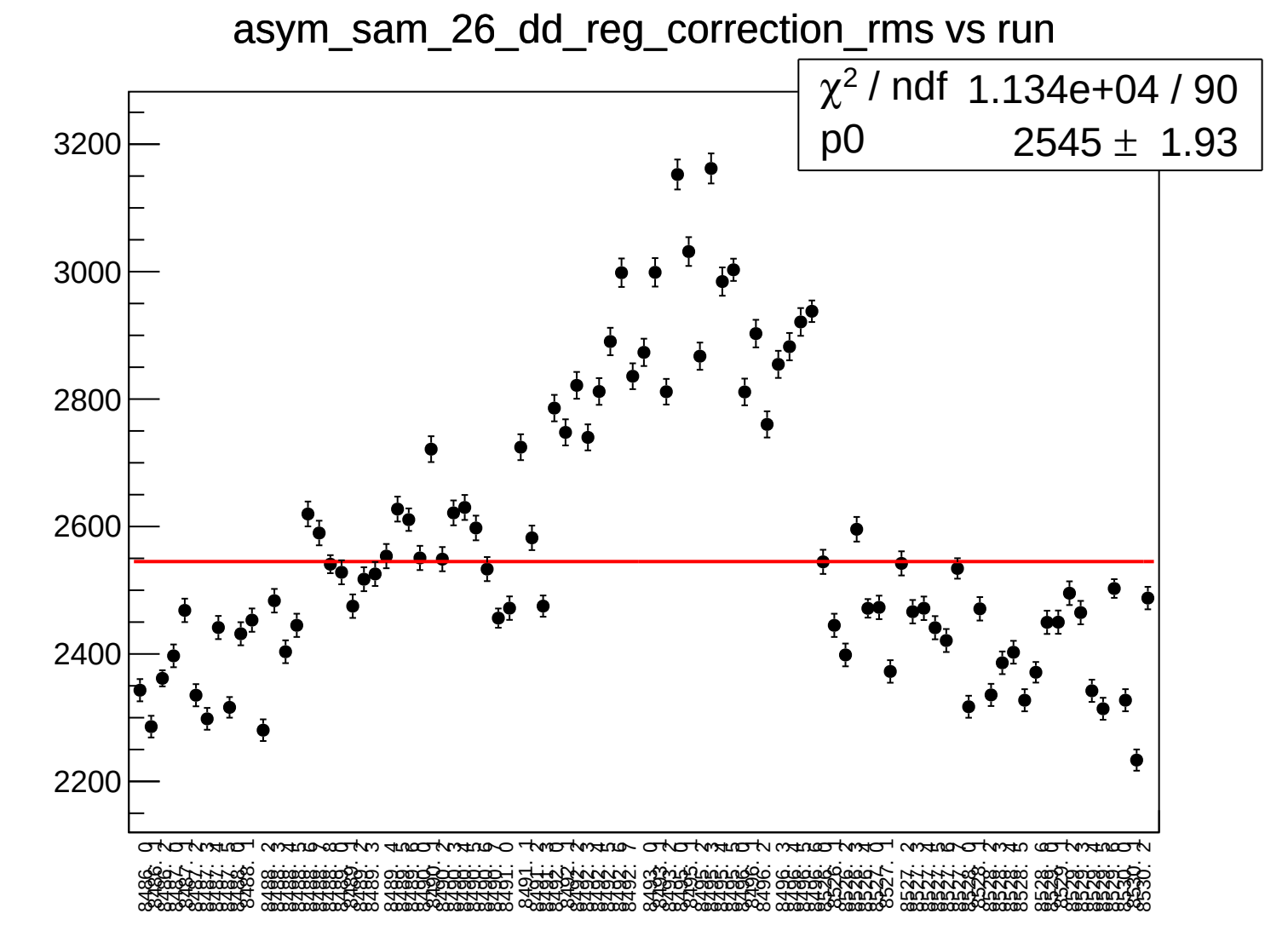

reg_asym_sam_26_dd_mean vs run
χ² / ndf 97.38 / 90
p0 −1.008 ± 173.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean −3340
Std Dev 0
2
1
0
−1
−2

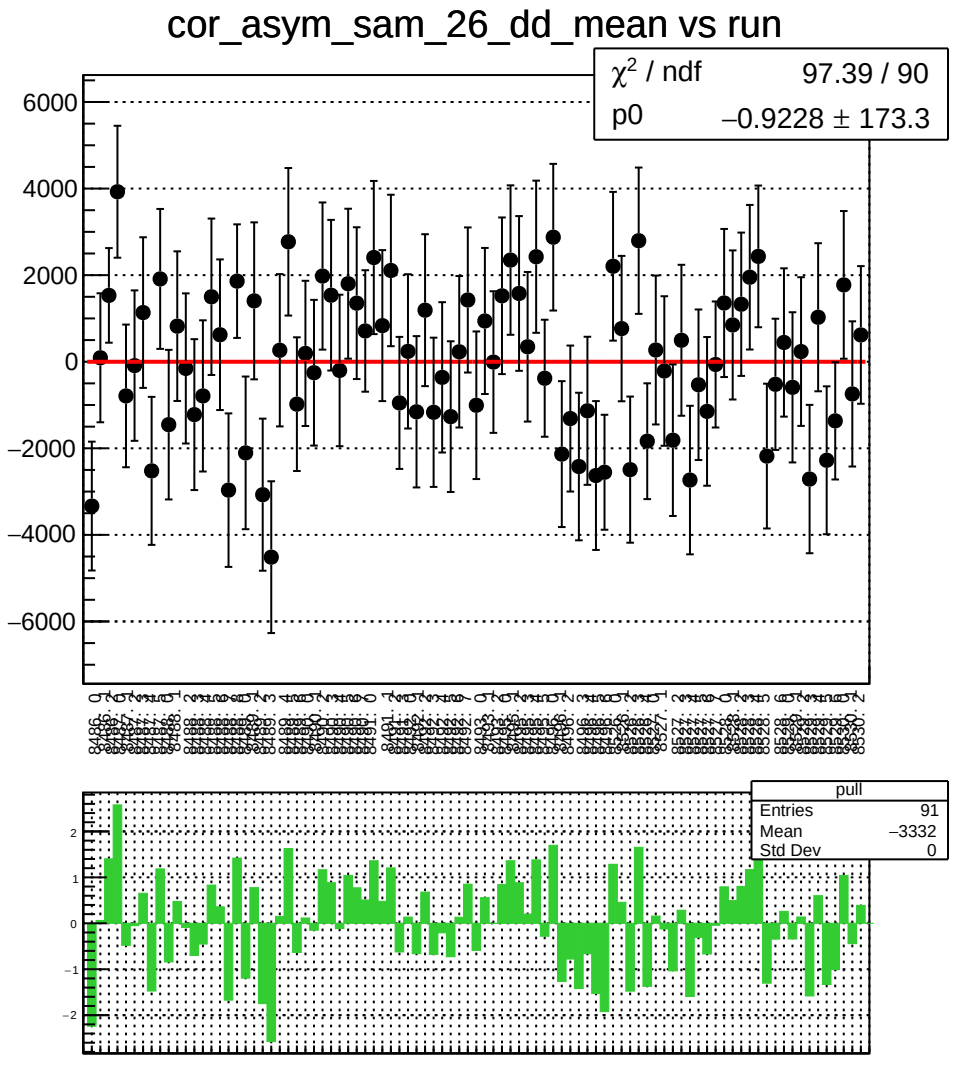

pull1D
Entries 91
Mean 0.000548
Std Dev 1.034
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

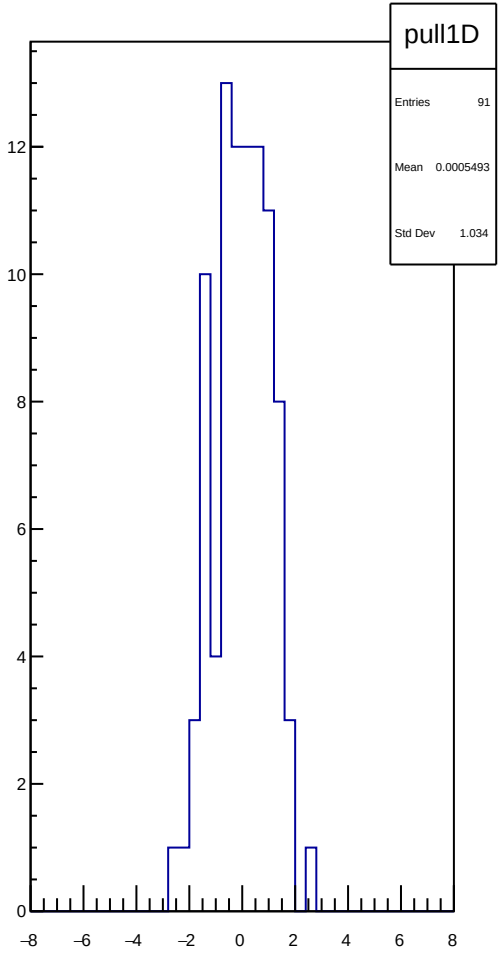

reg_asym_sam_26_dd_rms vs run
χ² / ndf 2311 / 90
p0 162 ± 0.1225
175
170
165
160
155
150
145
140

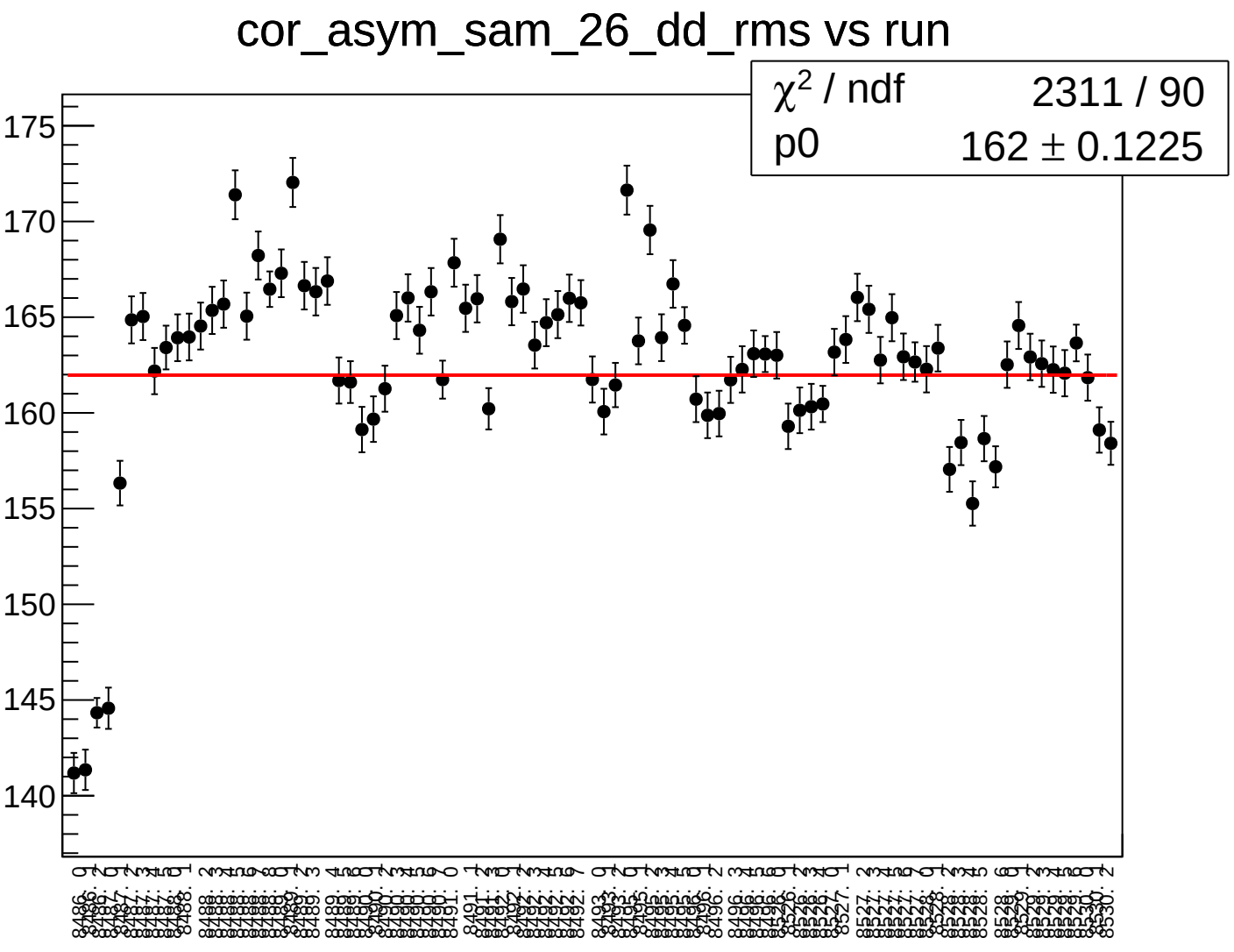

asym_sam_26_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 91.1 / 90
p0 874.2 ± 2730
100
50
0
−50
−100
pull
Entries 91
Mean 46.41
Std Dev 17.45
3
2
1
0
−1
−2
−3

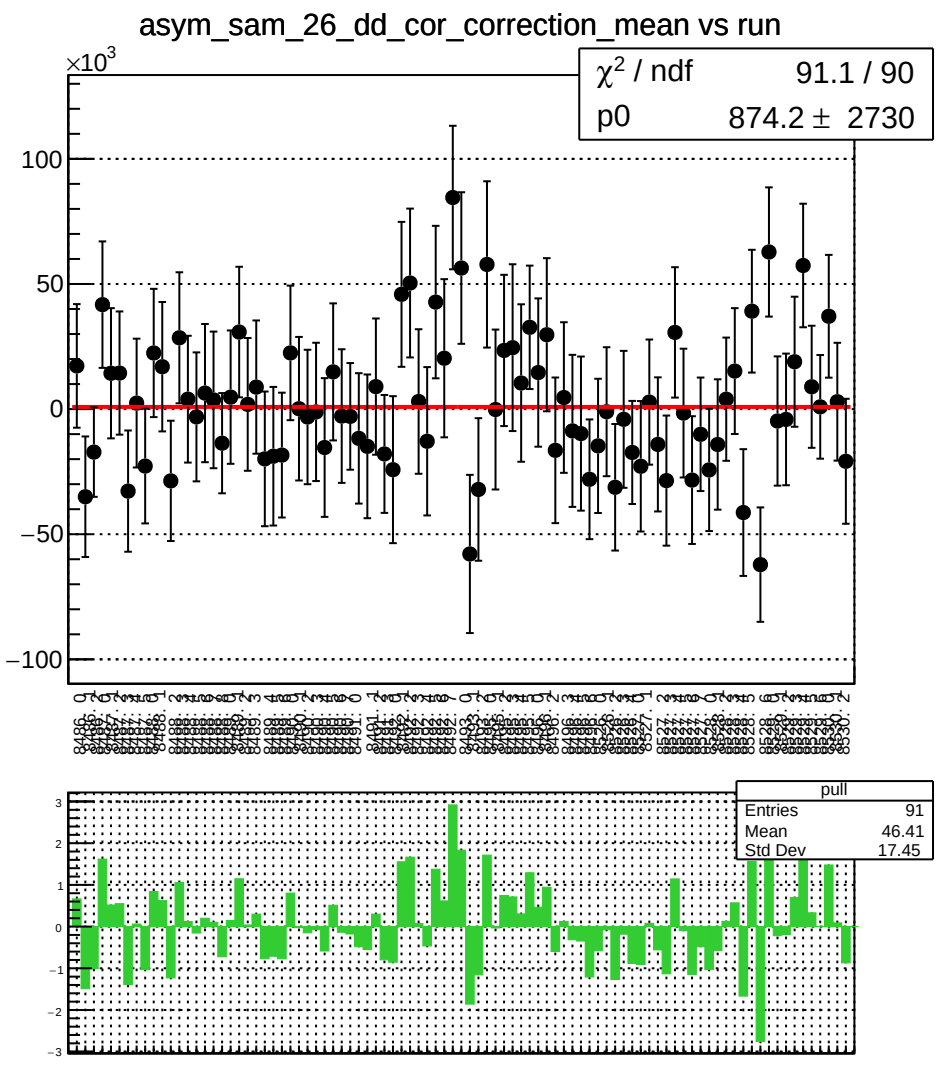

pull1D
Entries 91
Mean 0.03241
Std Dev 1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

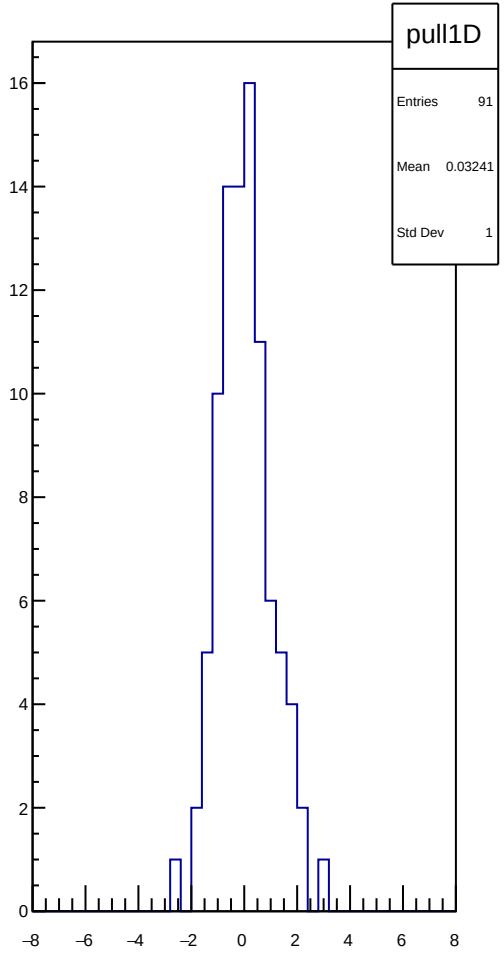

asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 1.134e+04 / 90
p0 2545 ± 1.93
3200
3000
2800
2600
2400
2200

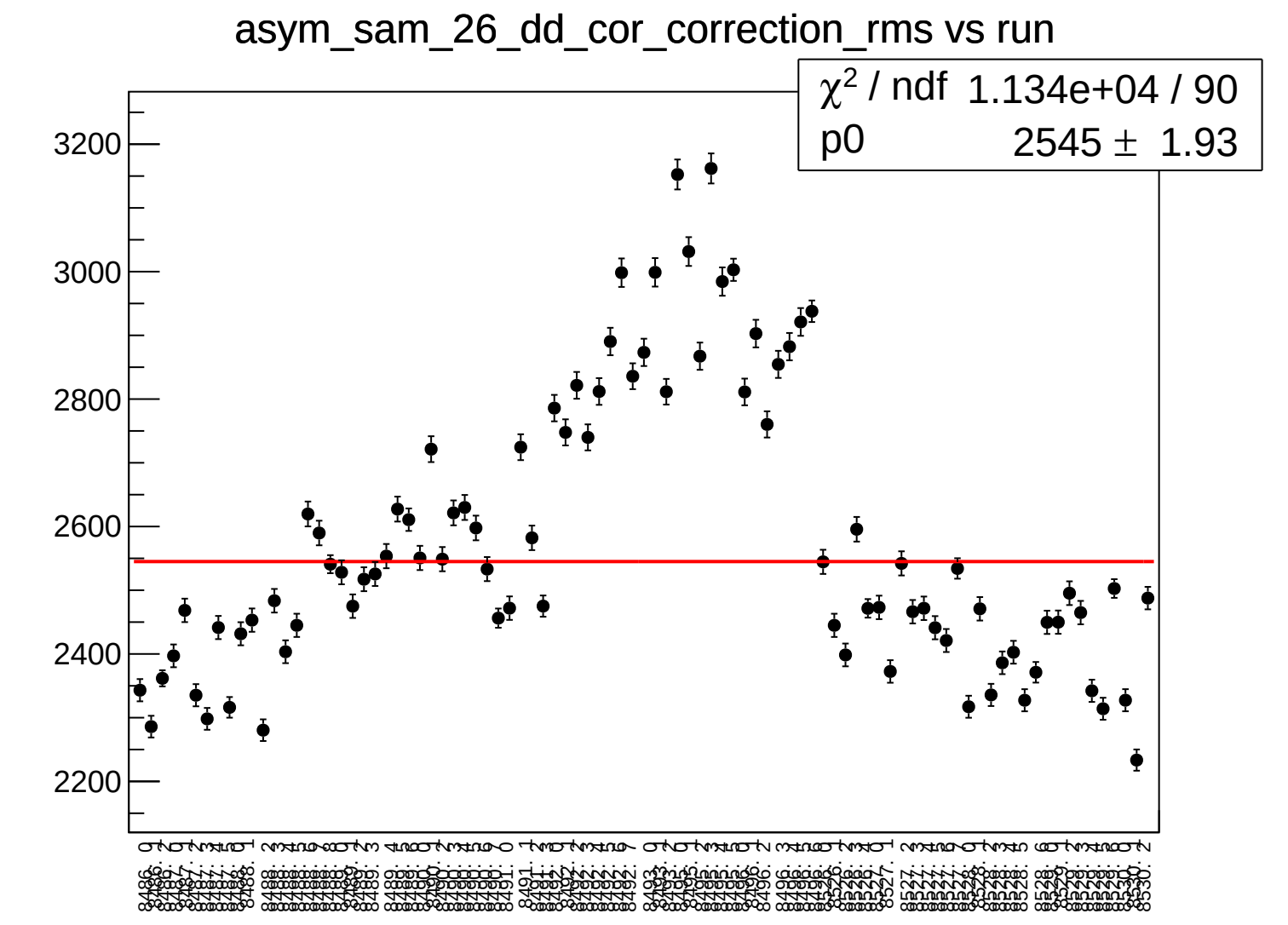

cor_asym_sam_26_dd_mean vs run
χ² / ndf 97.39 / 90
p0 −0.9228 ± 173.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean −3332
Std Dev 0
2
1
0
−1
−2

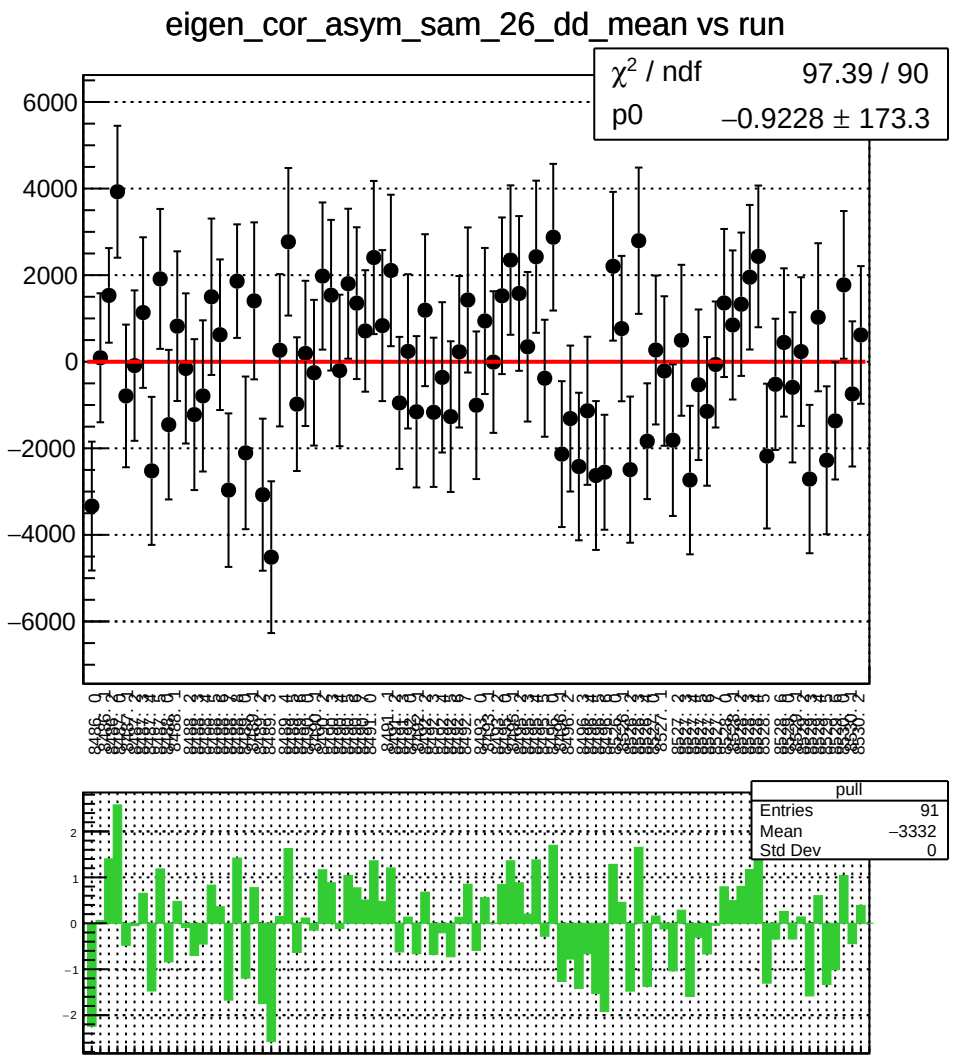

pull1D
Entries 91
Mean 0.0005493
Std Dev 1.034
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

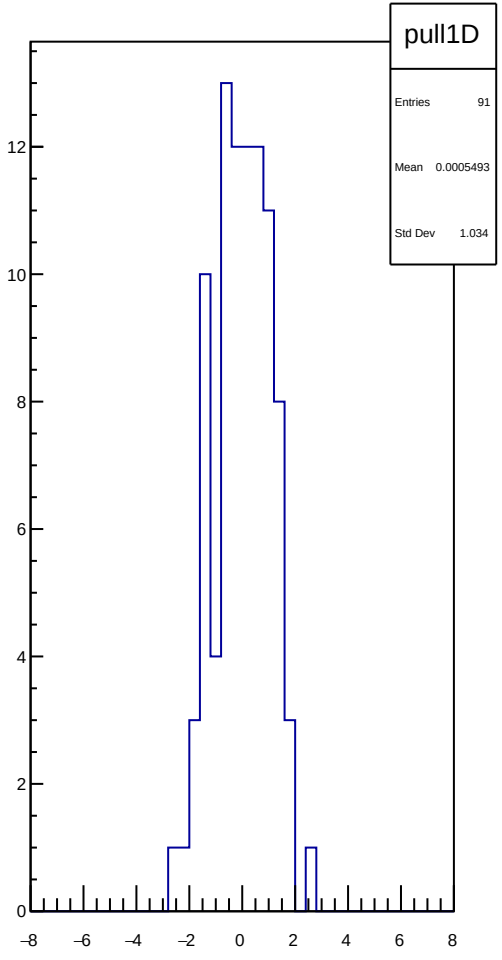

cor_asym_sam_26_dd_rms vs run
χ² / ndf 2311 / 90
p0 162 ± 0.1225
175
170
165
160
155
150
145
140

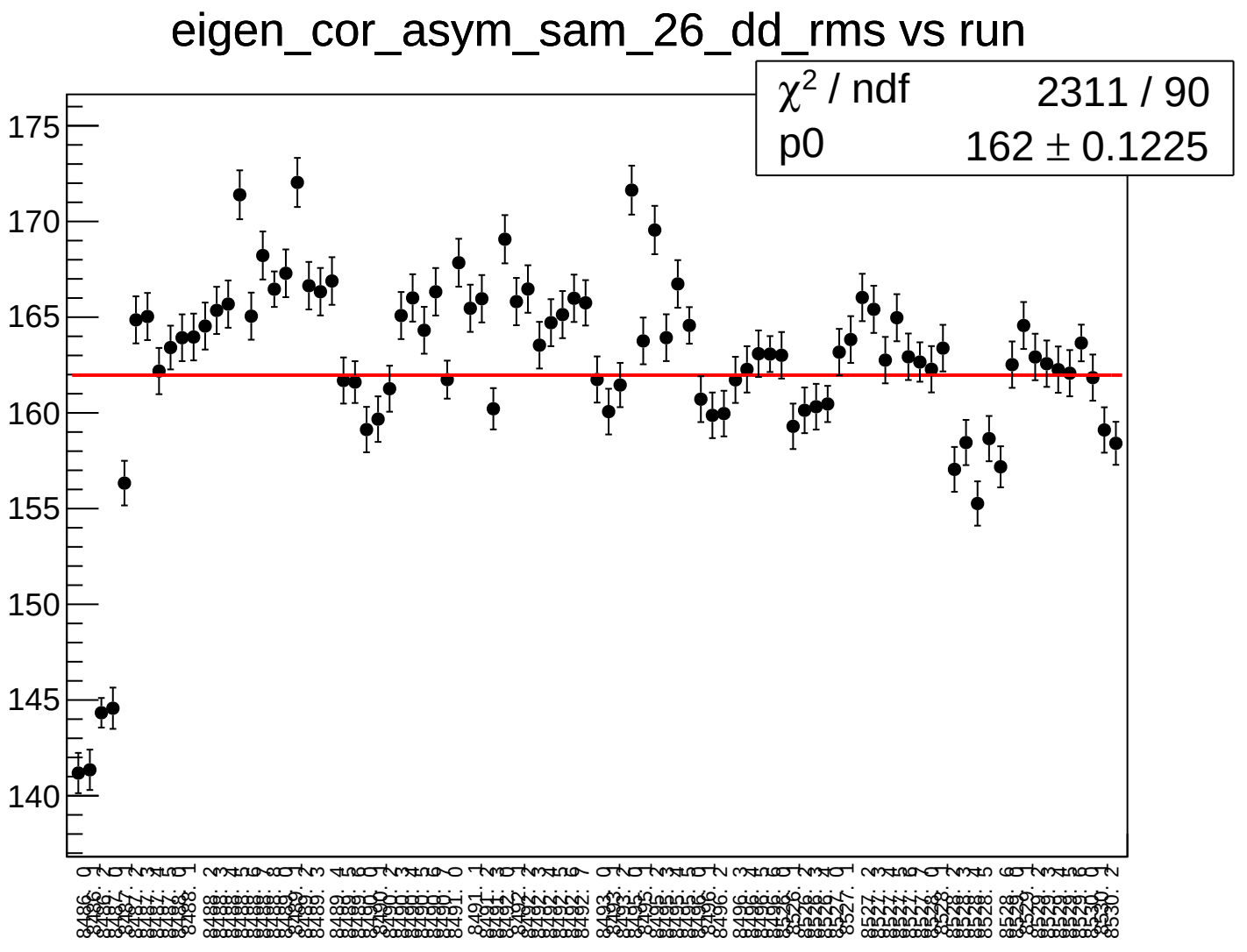

asym_sam_26_dd_cor_correction_mean vs run
×10^3
χ² / ndf 91.1 / 90
p0 874.2 ± 2730
100
50
0
−50
−100
pull
Entries 91
Mean 46.41
Std Dev 17.45
3
2
1
0
−1
−2
−3

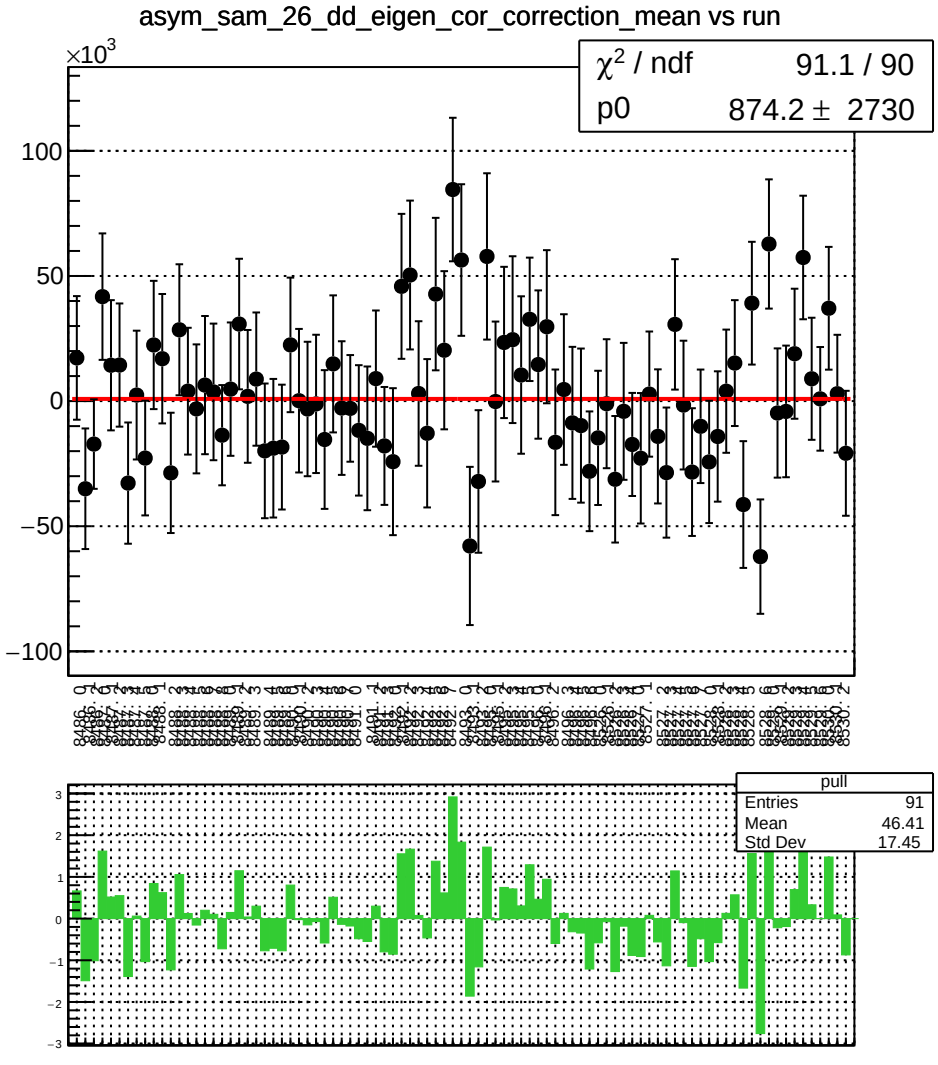

pull1D
Entries 91
Mean 0.03241
Std Dev 1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

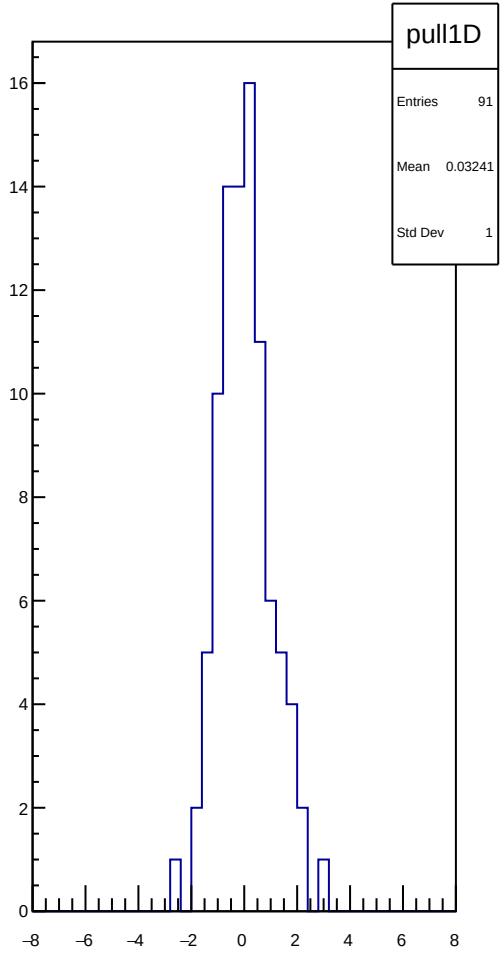

asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 1.134e+04 / 90
p0 2545 ± 1.93
3200
3000
2800
2600
2400
2200

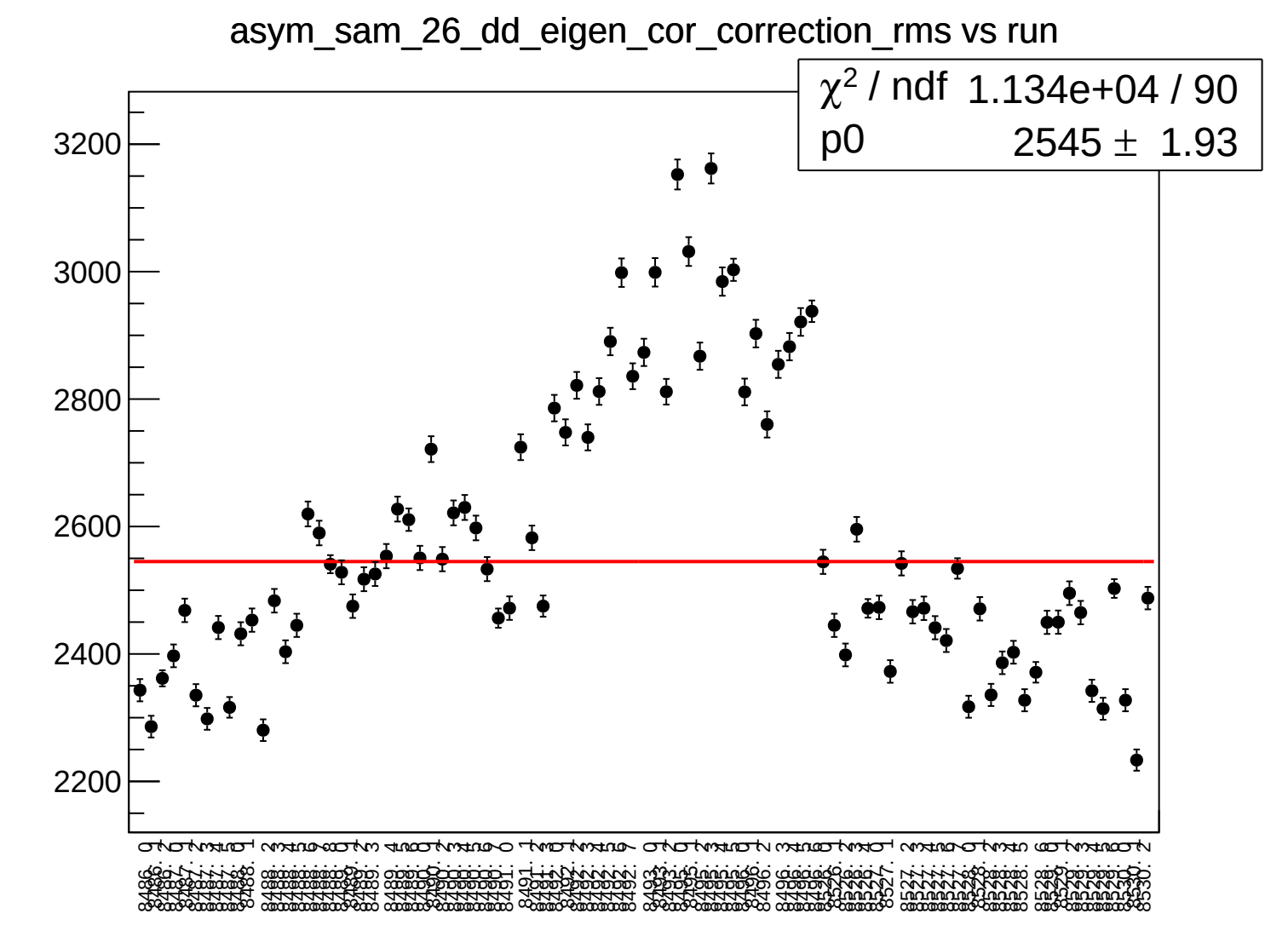

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 97.39 / 90
p0 −0.9228 ± 173.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean −3332
Std Dev 0
2
1
0
−1
−2

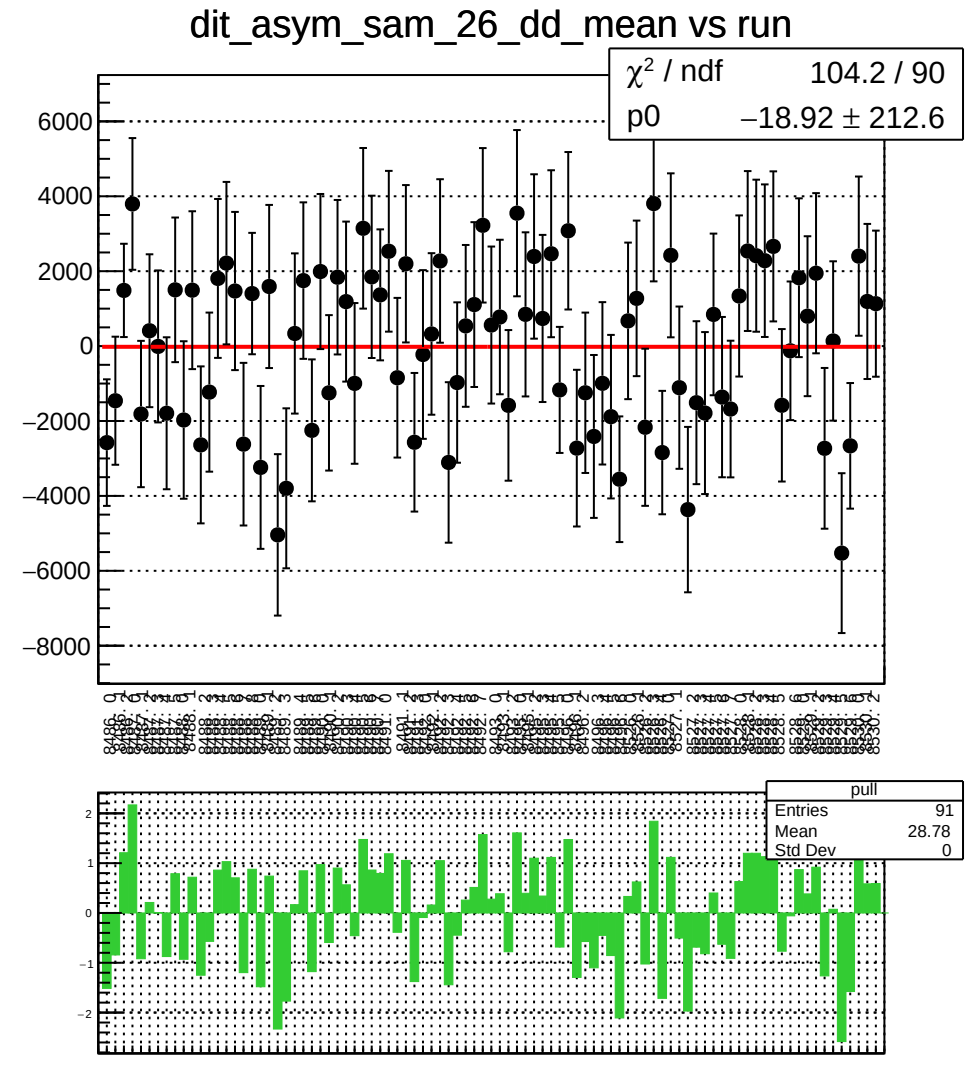

pull1D
Entries 91
Mean 0.0005493
Std Dev 1.034
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

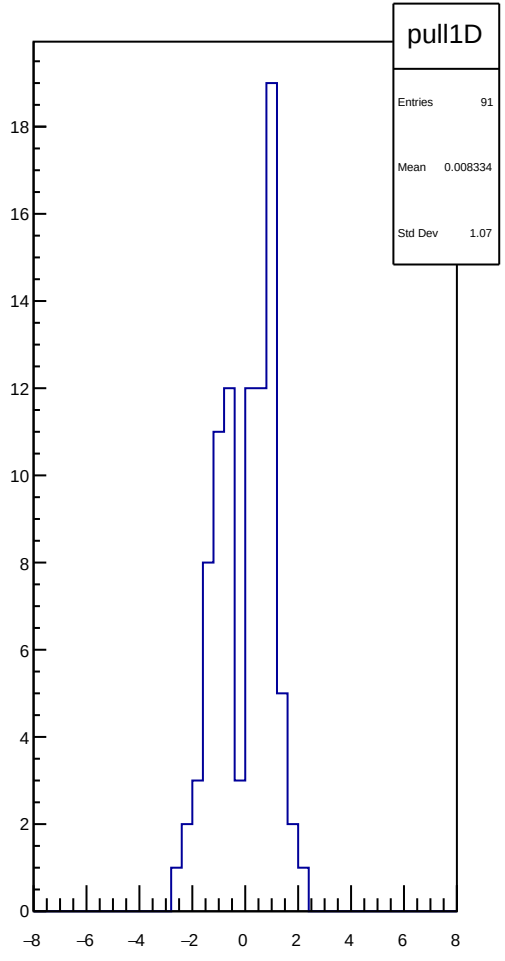

eigen_cor_asym_sam_26_dd_rms vs run
χ^2 / ndf 2311 / 90
p0 162 ± 0.1225
175
170
165
160
155
150
145
140

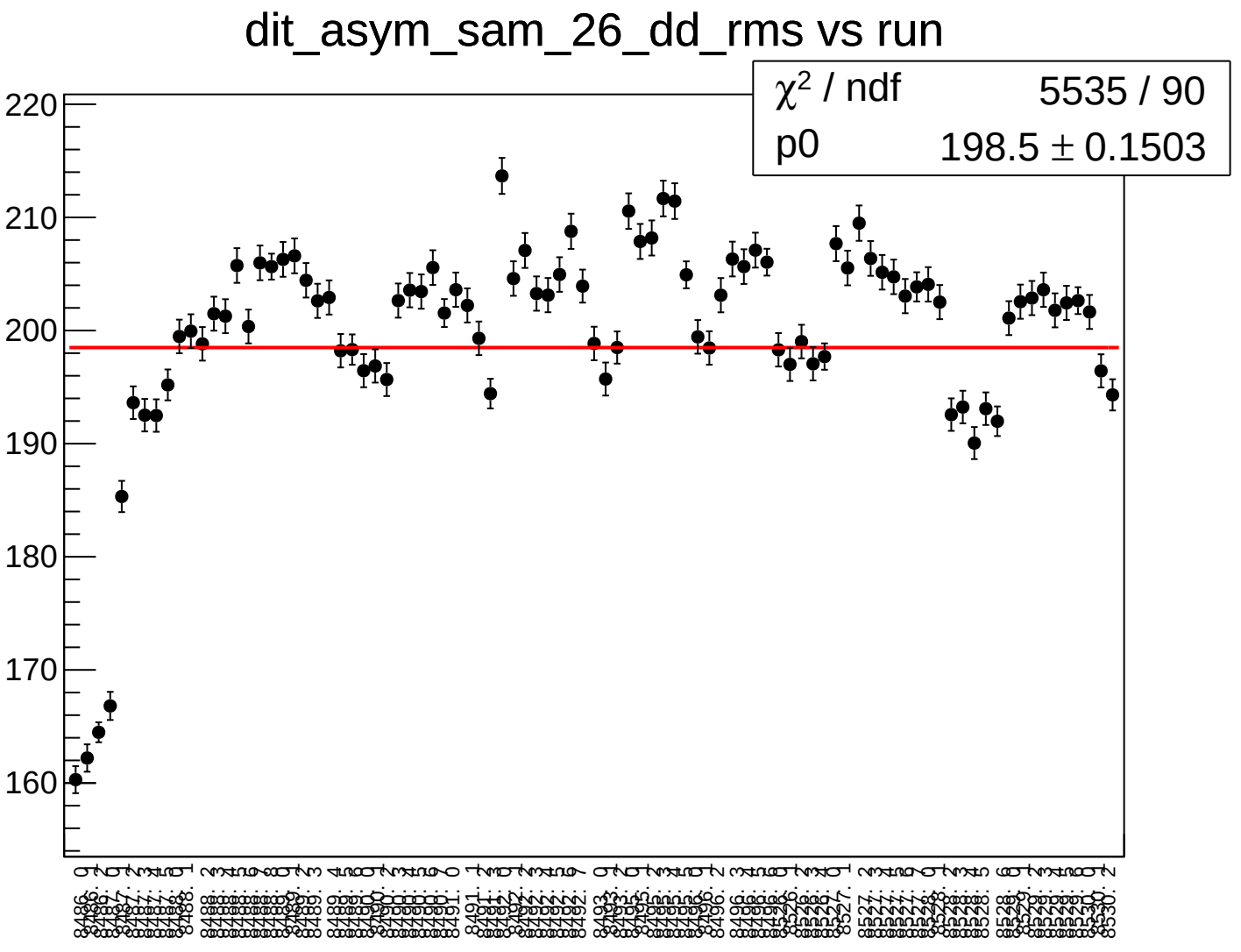

asym_sam_26_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 91.1 / 90
p0 874.2 ± 2730
100
50
0
−50
−100
pull
Entries 91
Mean 46.41
Std Dev 17.45
3
2
1
0
−1
−2
−3

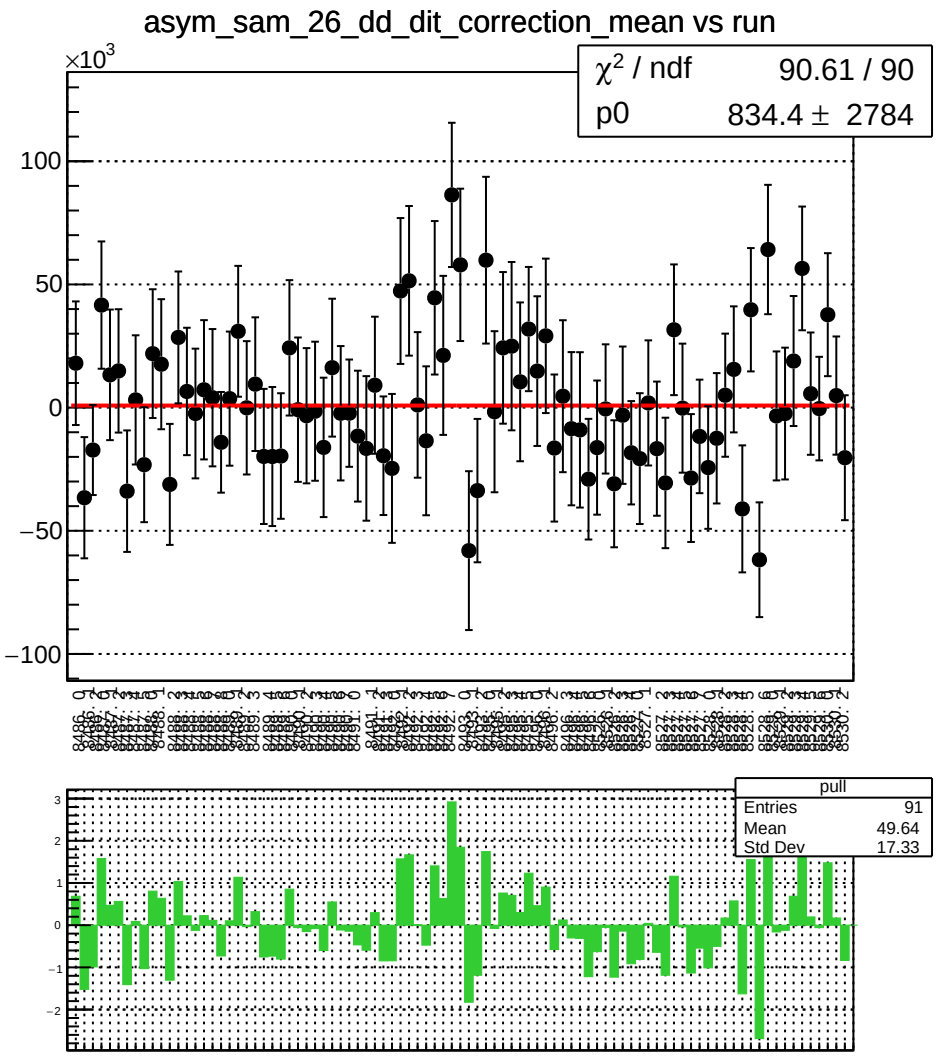

pull1D
Entries 91
Mean 0.03241
Std Dev 1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

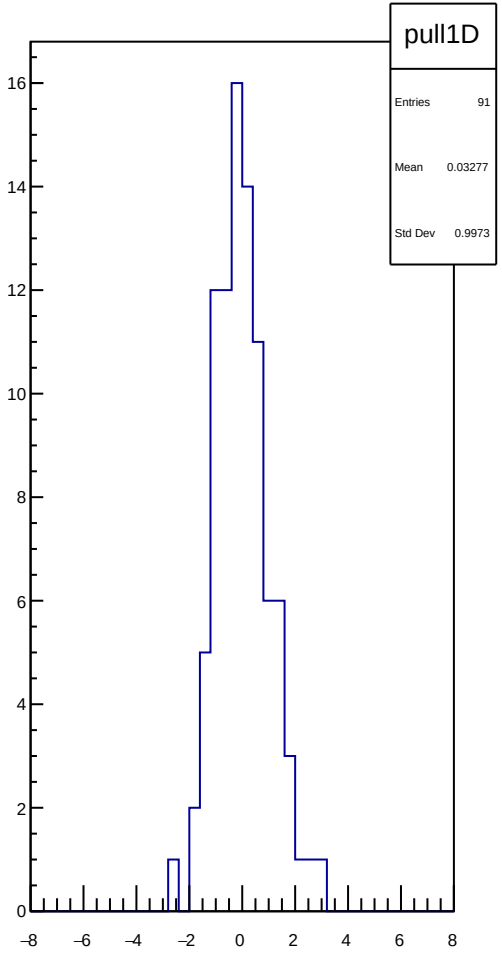

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.134e+04 / 90
p0 2545 ± 1.93
3200
3000
2800
2600
2400
2200

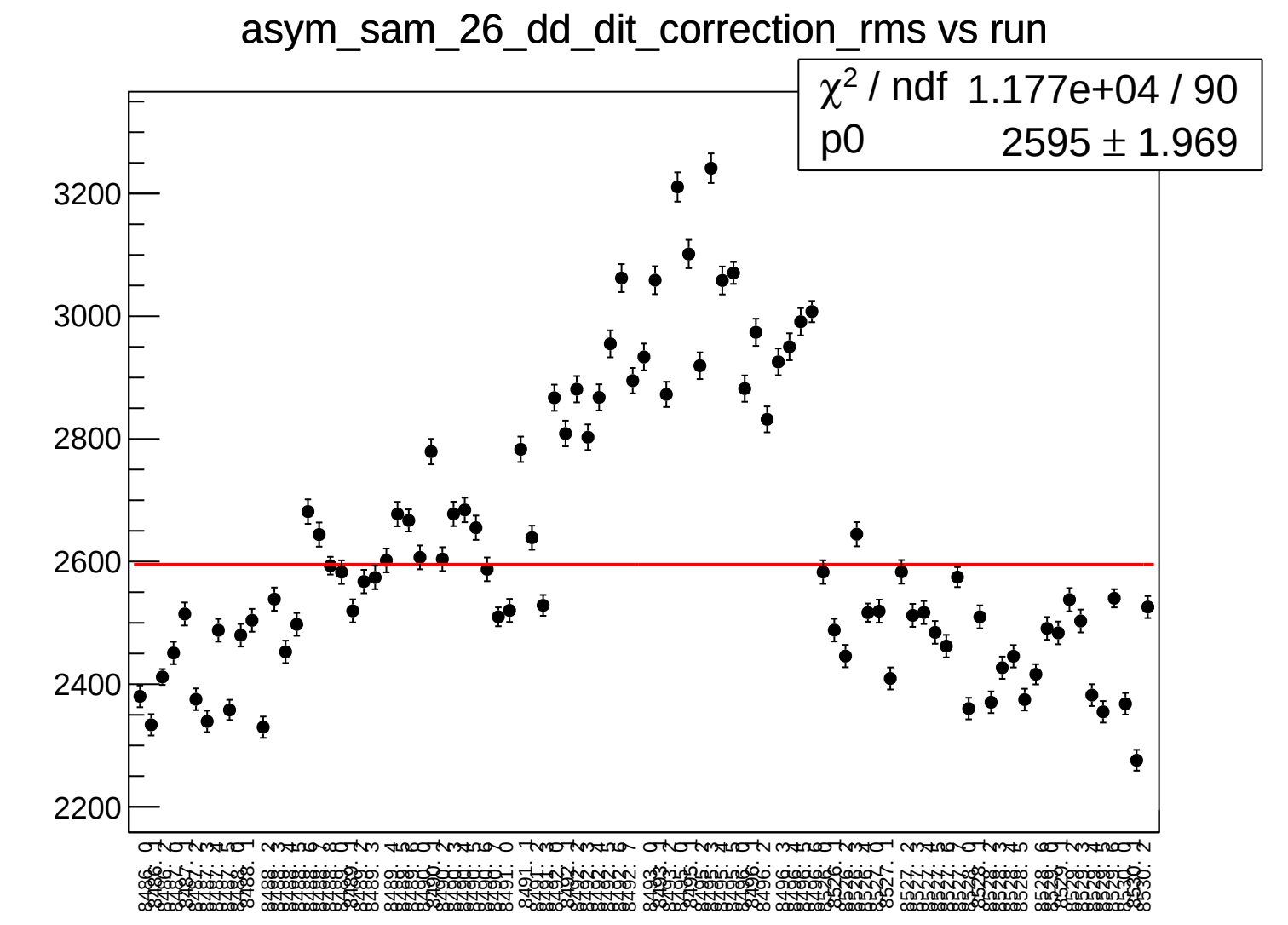

dit_asym_sam_26_dd_mean vs run
χ² / ndf 104.2 / 90
p0 −18.92 ± 212.6
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 91
Mean 28.78
Std Dev 0
2
1
0
−1
−2

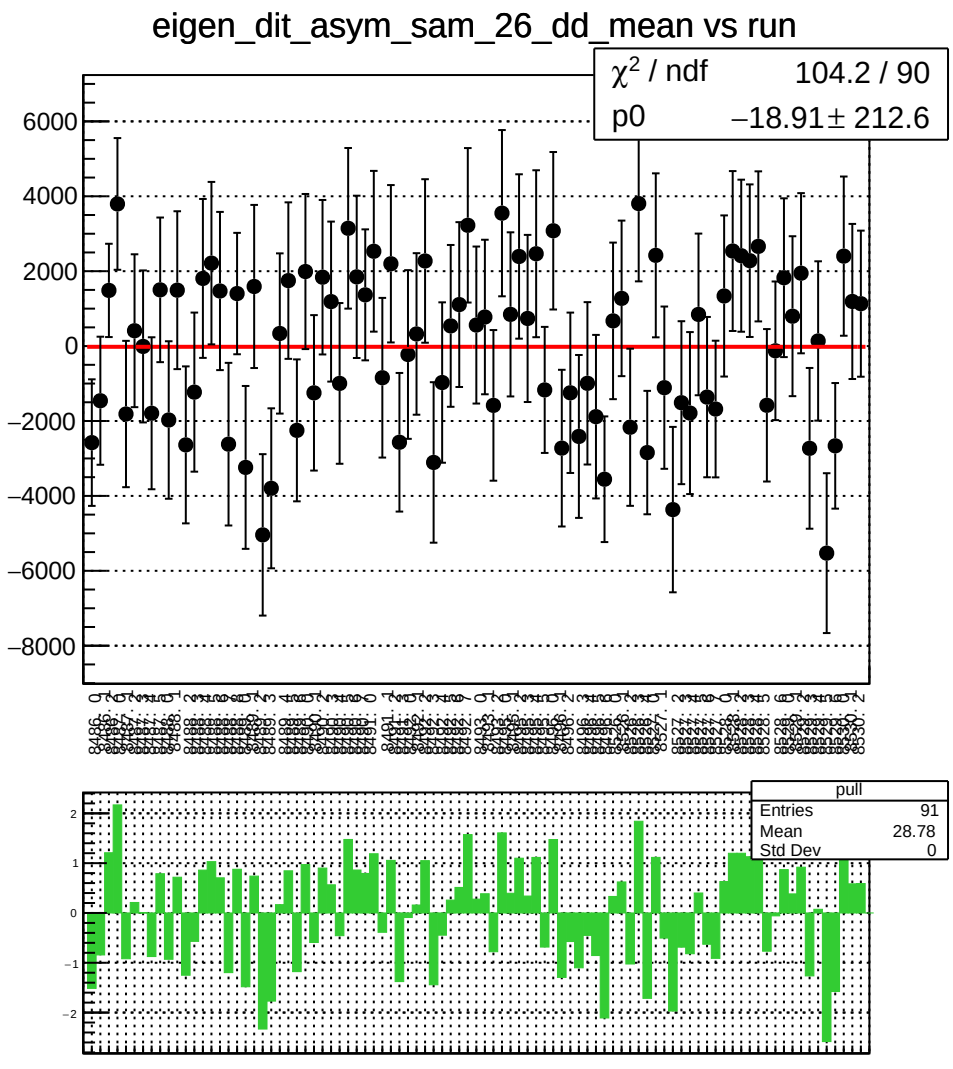

pull1D
Entries 91
Mean 0.008334
Std Dev 1.07
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

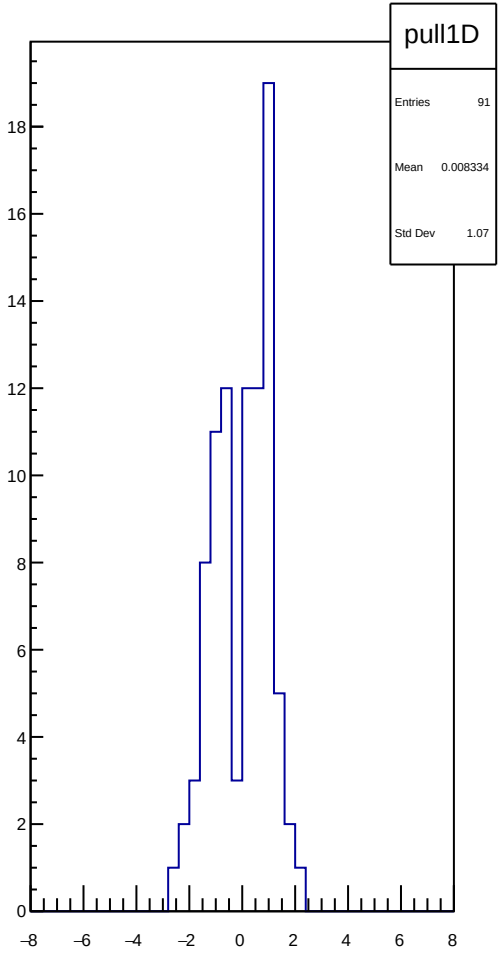

dit_asym_sam_26_dd_rms vs run
χ² / ndf 5535 / 90
p0 198.5 ± 0.1503
220
210
200
190
180
170
160

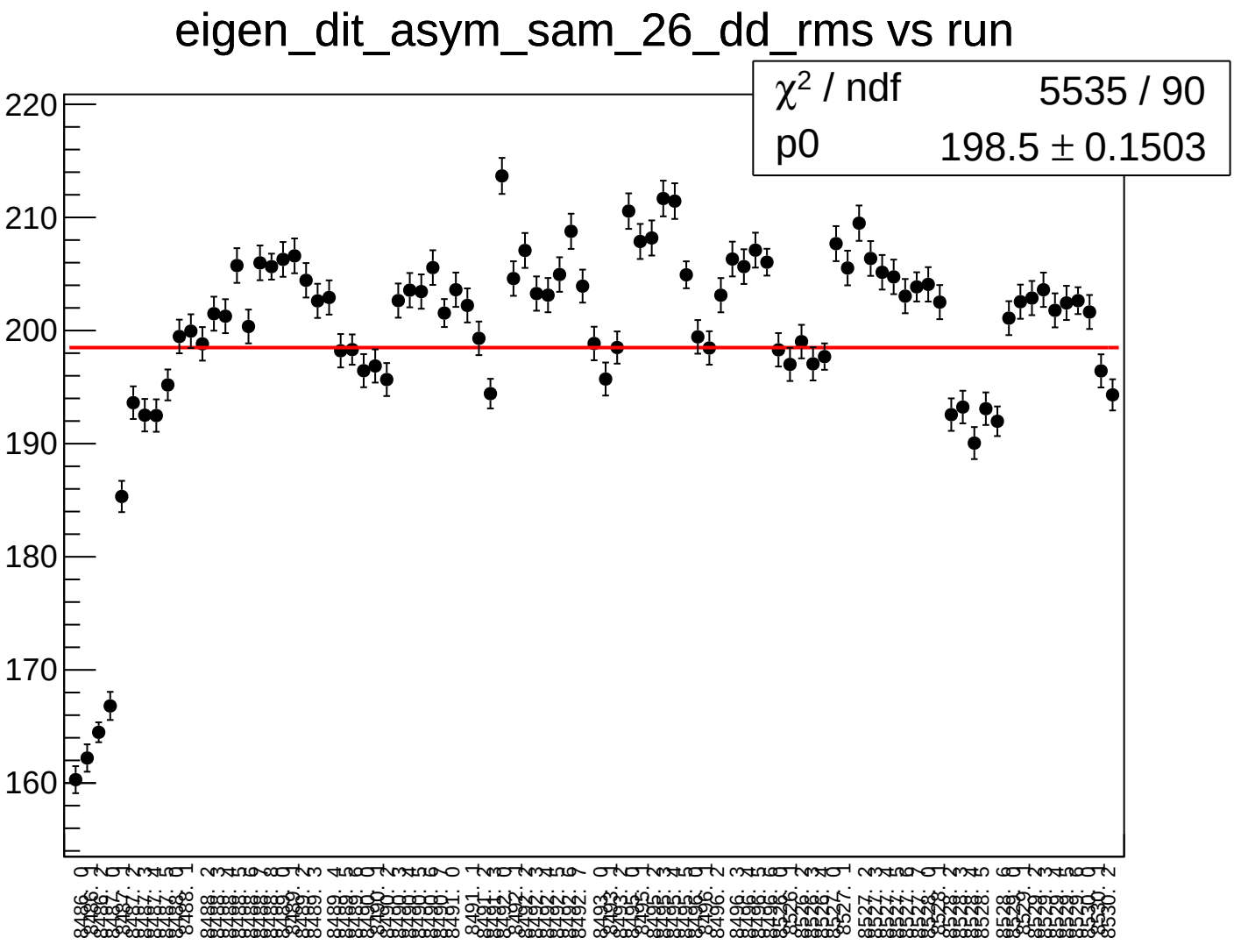

asym_sam_26_dd_dit_correction_mean vs run
×10^3
χ² / ndf 90.61 / 90
p0 834.4 ± 2784
100
50
0
−50
−100
pull
Entries 91
Mean 49.64
Std Dev 17.33
3
2
1
0
−1
−2

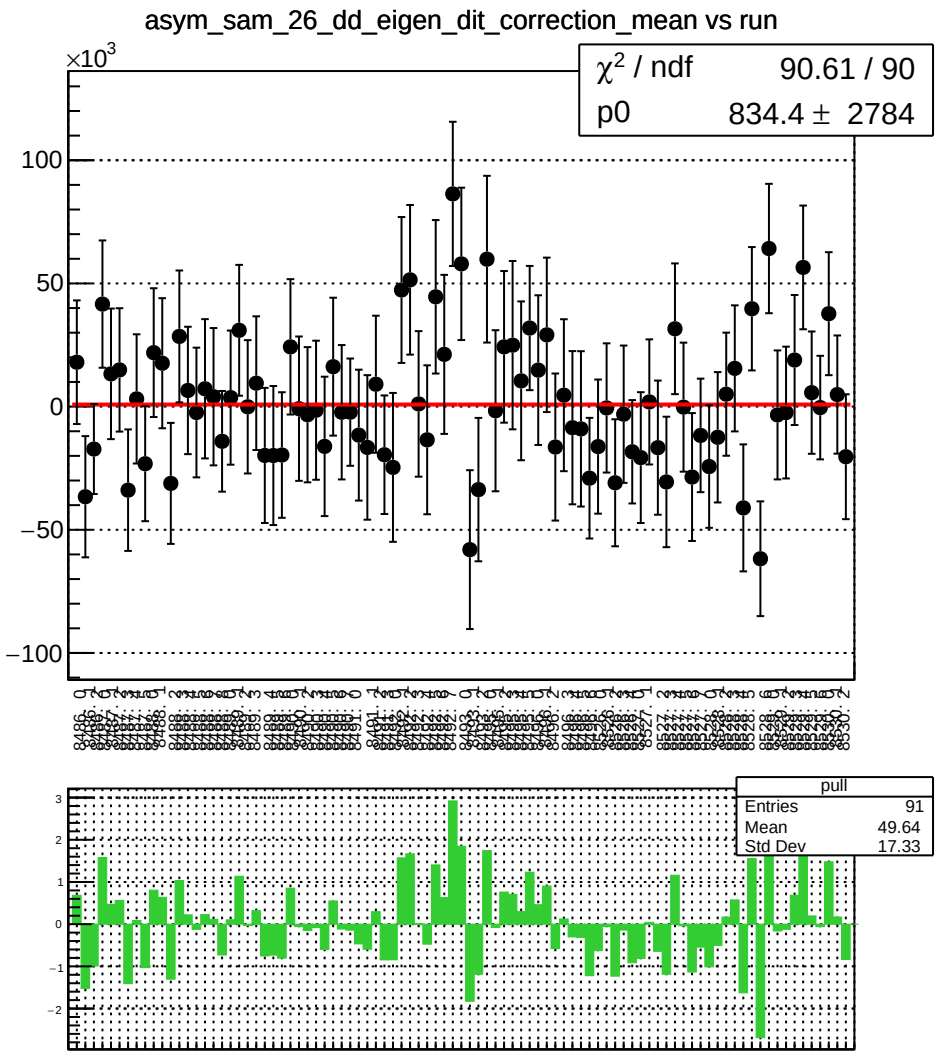

pull1D
Entries 91
Mean 0.03277
Std Dev 0.9973
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

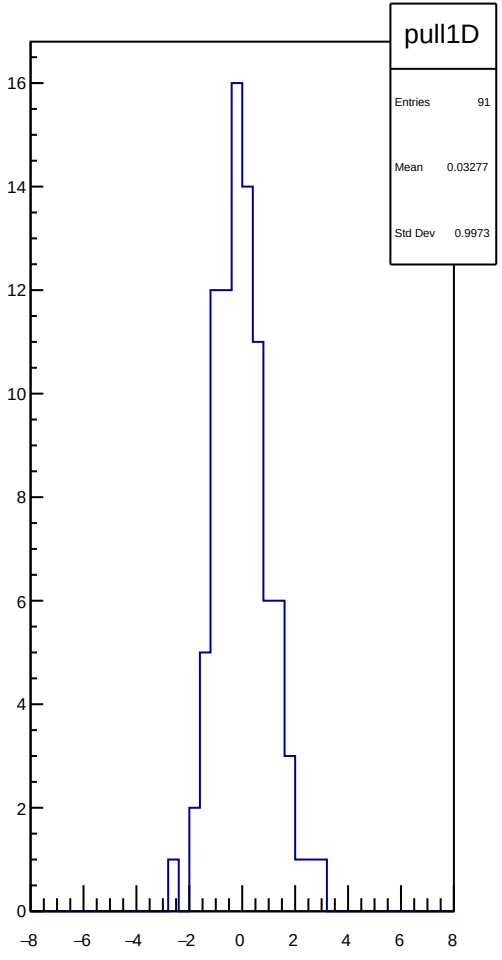

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 1.177e+04 / 90
p0 2595 ± 1.969
3200
3000
2800
2600
2400
2200

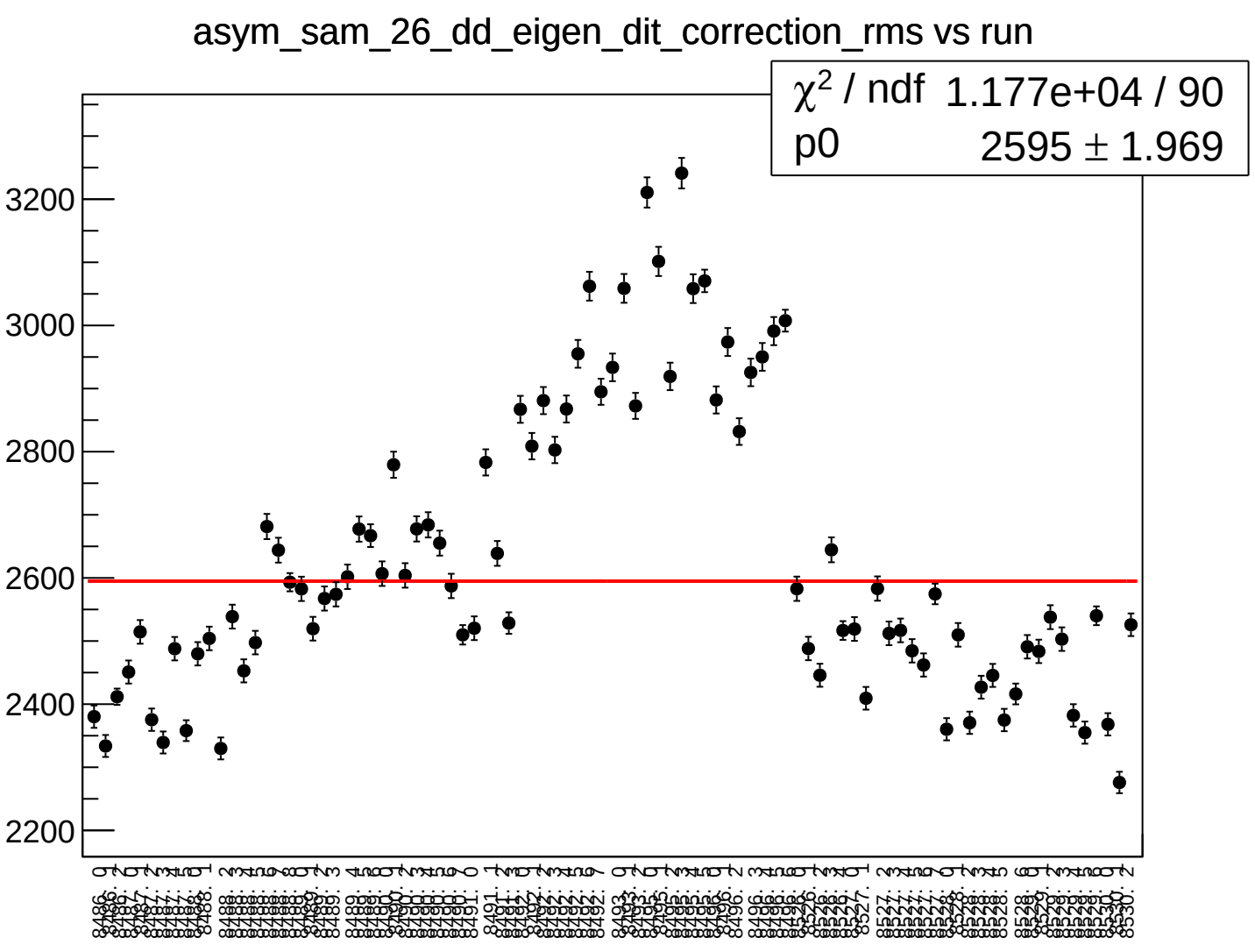

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 104.2 / 90
p0 −18.91± 212.6
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 91
Mean 28.78
Std Dev 0
2
1
0
−1
−2

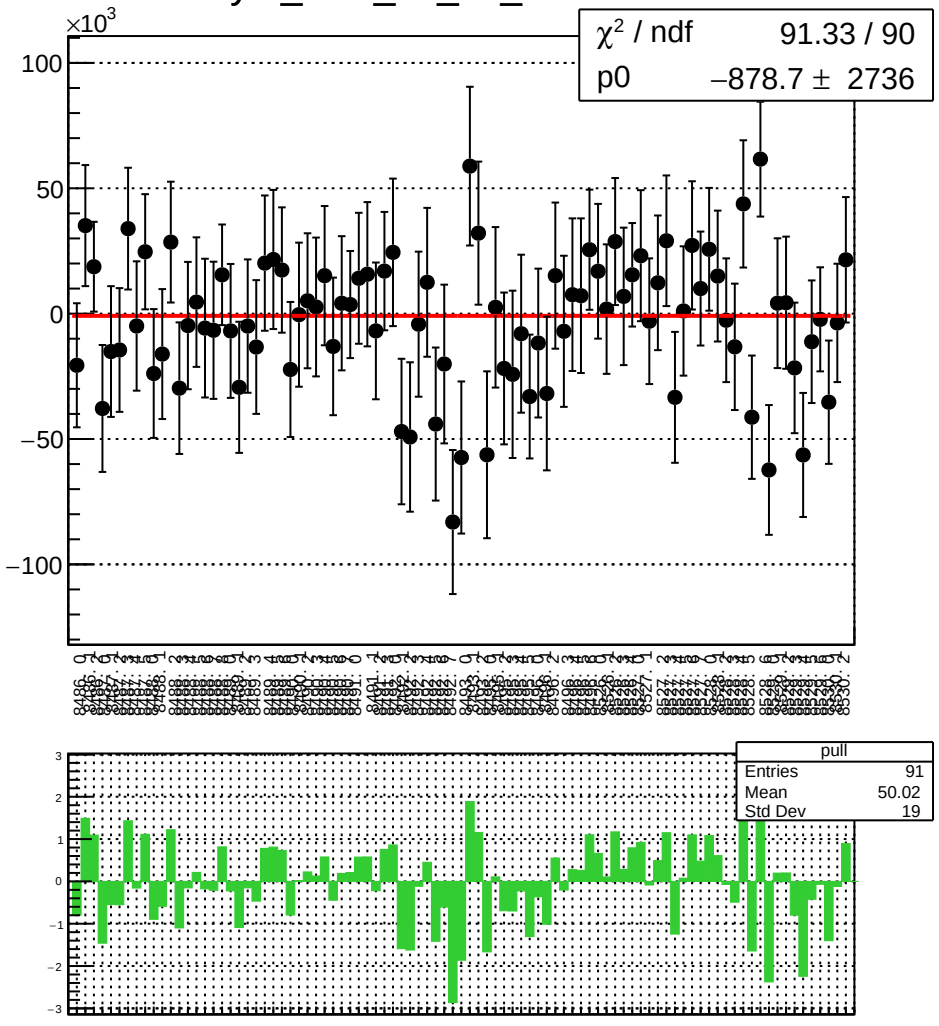

pull1D
Entries 91
Mean 0.008334
Std Dev 1.07
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

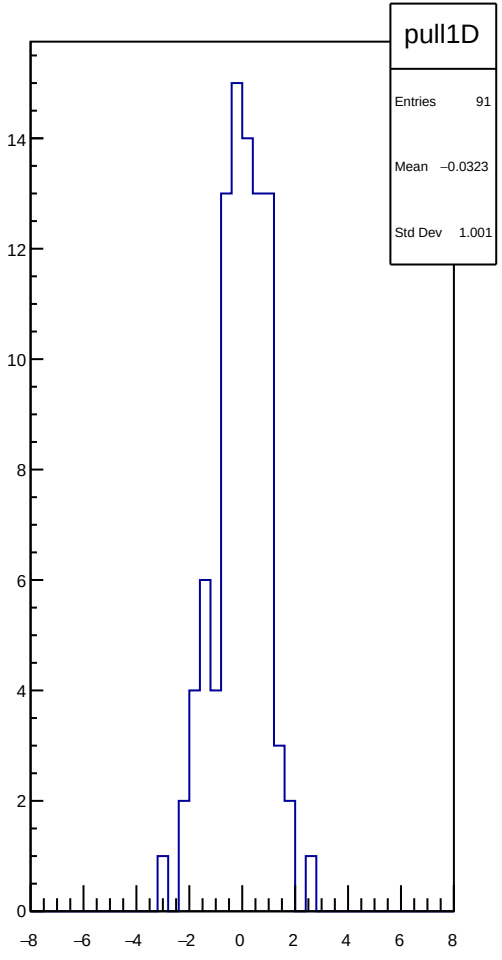

eigen_dit_asym_sam_26_dd_rms vs run
χ^2 / ndf 5535 / 90
p0 198.5 ± 0.1503
220
210
200
190
180
170
160

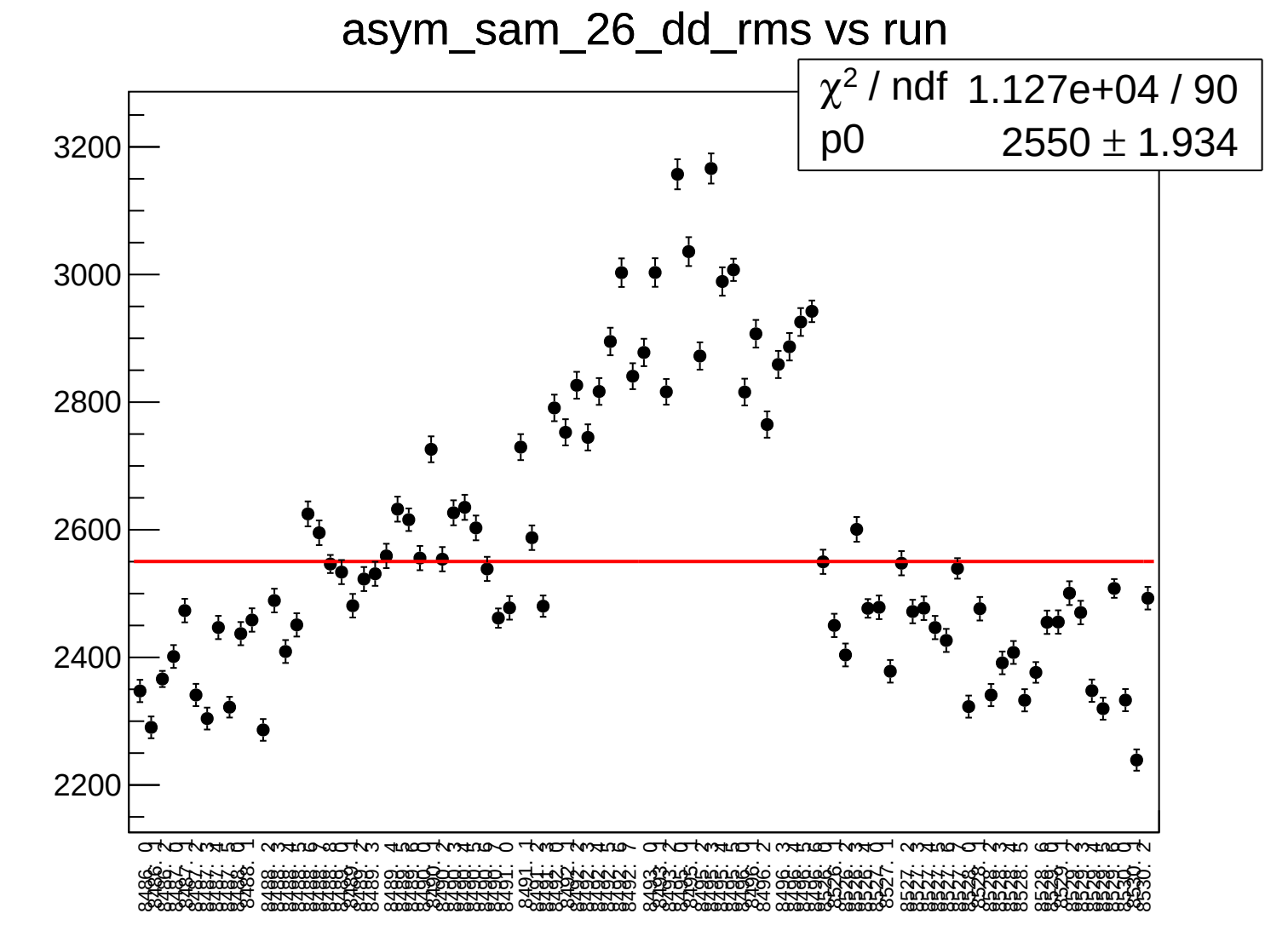

asym_sam_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 90.61 / 90
p0 834.4 ± 2784
×10³
pull
Entries 91
Mean 49.64
Std Dev 17.33

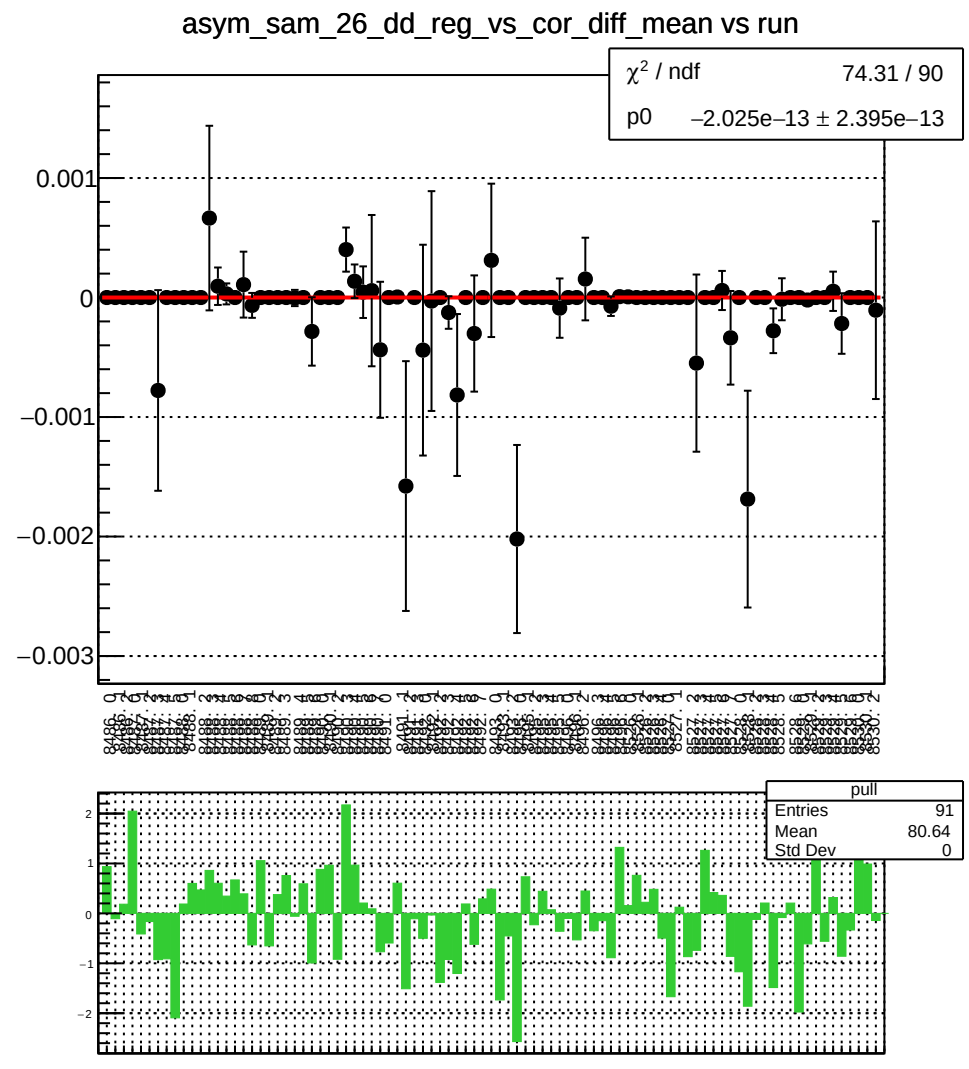

pull1D
Entries 91
Mean 0.03277
Std Dev 0.9973

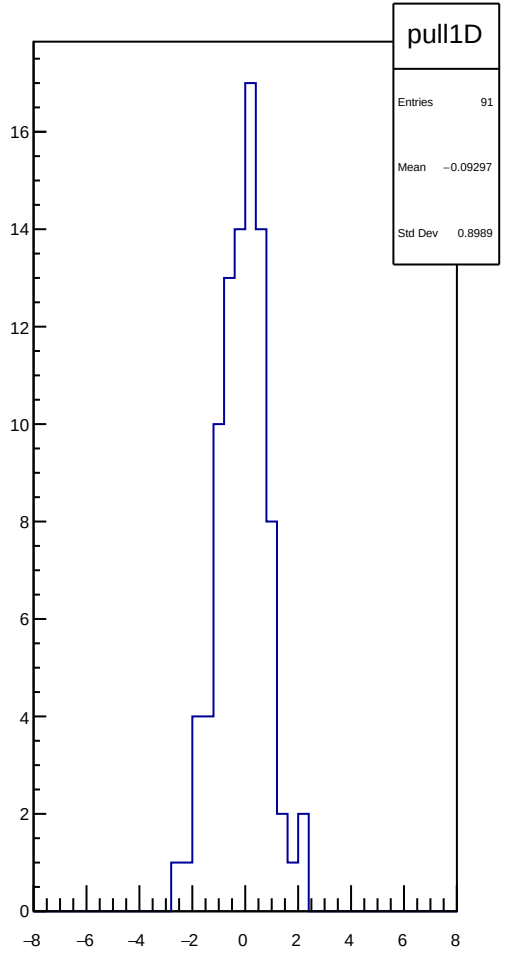

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.177e+04 / 90
p0 2595 ± 1.969
3200
3000
2800
2600
2400
2200

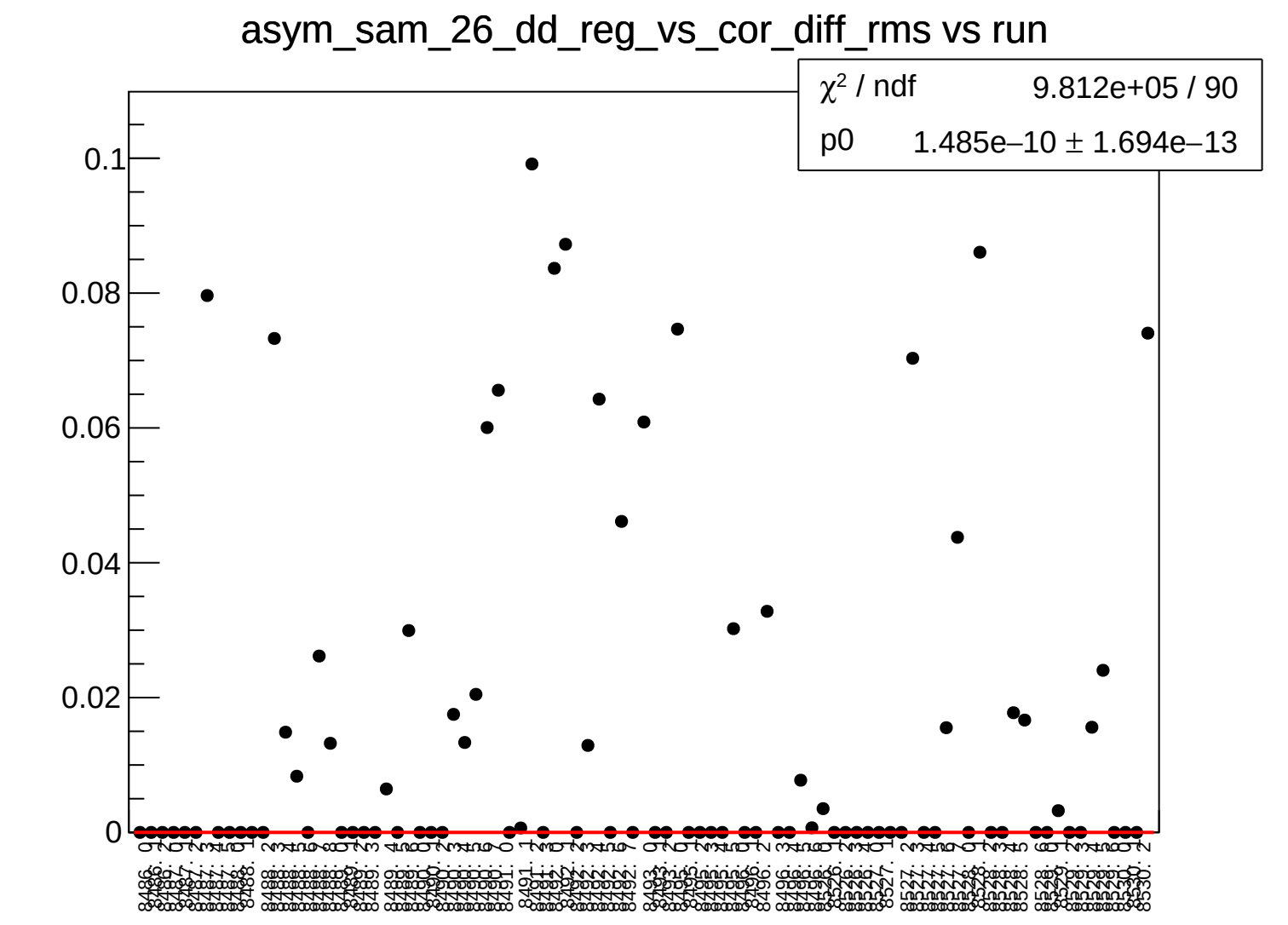

asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 91.33 / 90
p0 −878.7 ± 2736
100
50
0
−50
−100
pull
Entries 91
Mean 50.02
Std Dev 19
3
2
1
0
−1
−2
−3

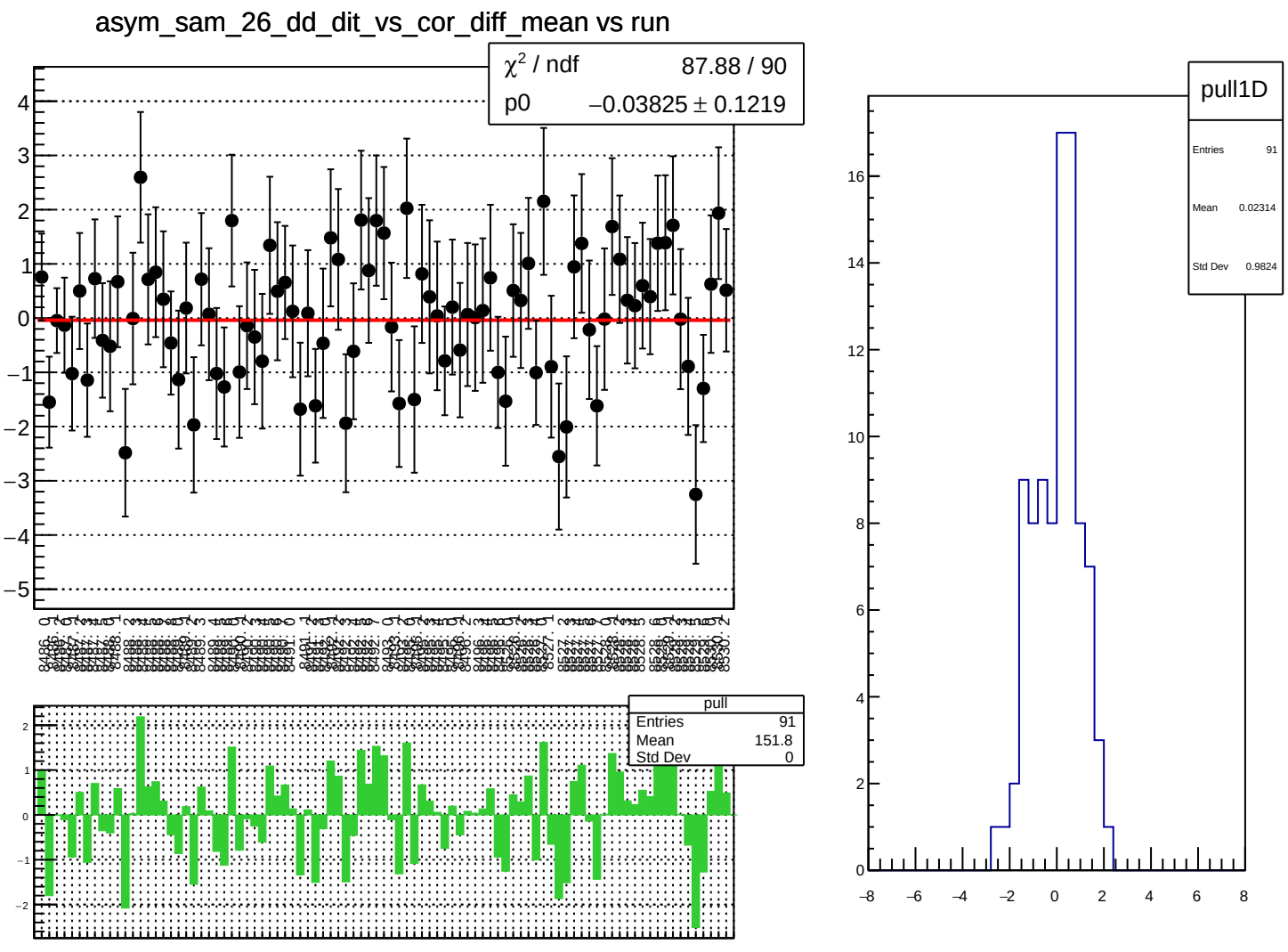

pull1D
Entries 91
Mean −0.0323
Std Dev 1.001
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

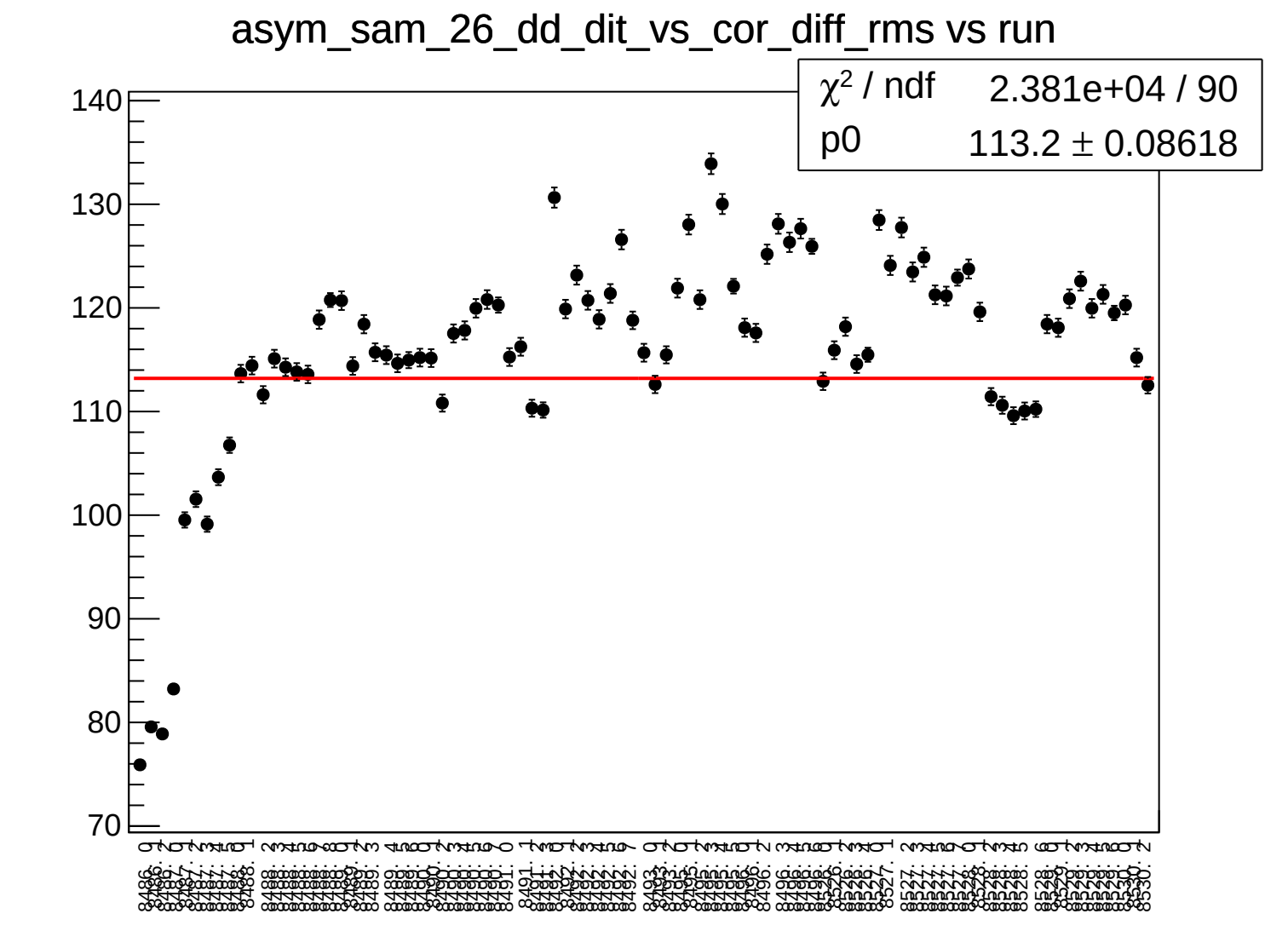

asym_sam_26_dd_rms vs run
χ² / ndf 1.127e+04 / 90
p0 2550 ± 1.934
3200
3000
2800
2600
2400
2200

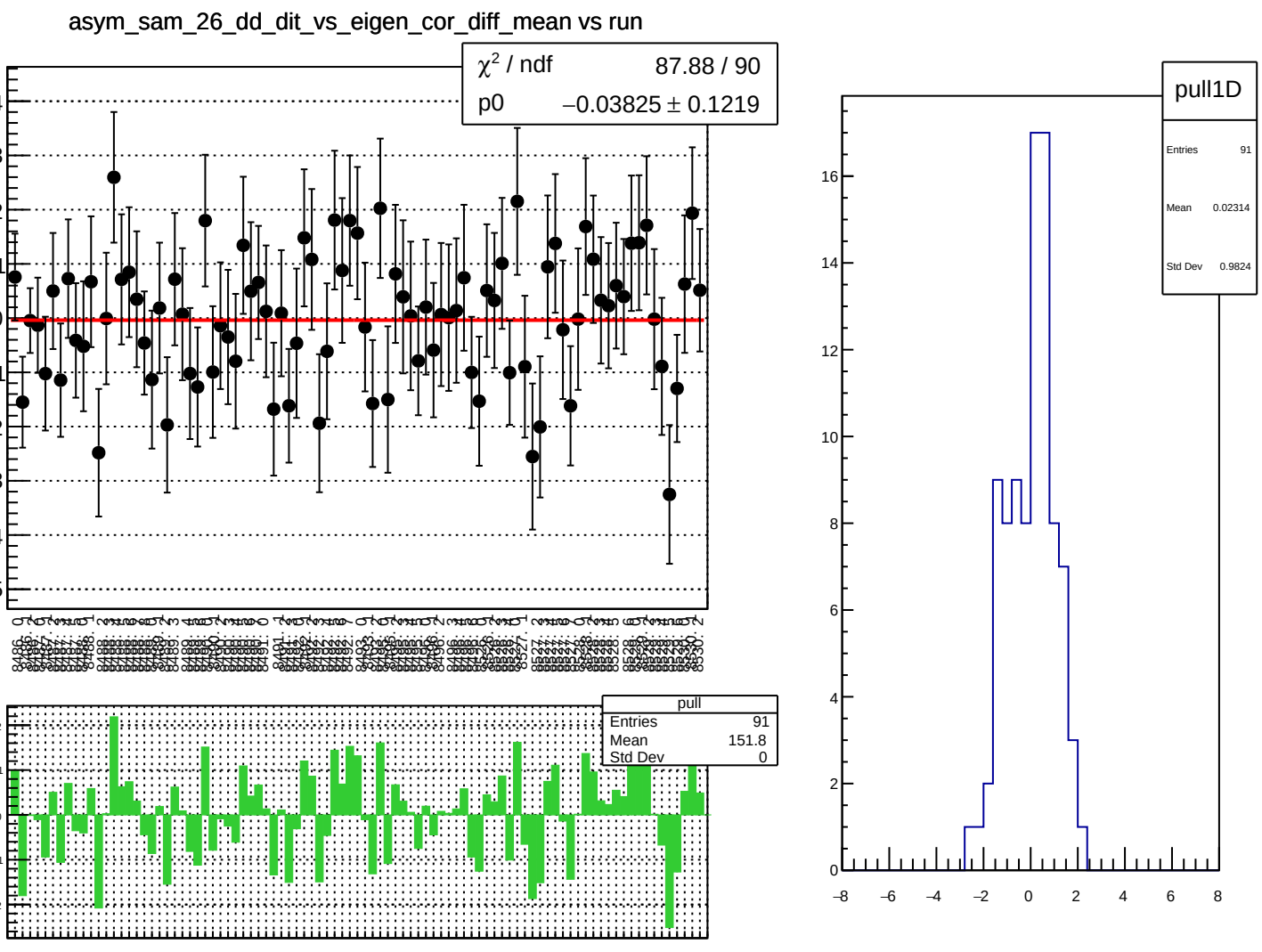

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 74.31 / 90
p0 −2.025e−13 ± 2.395e−13
0.001
0
−0.001
−0.002
−0.003
pull
Entries 91
Mean 80.64
Std Dev 0
2
1
0
−1
−2

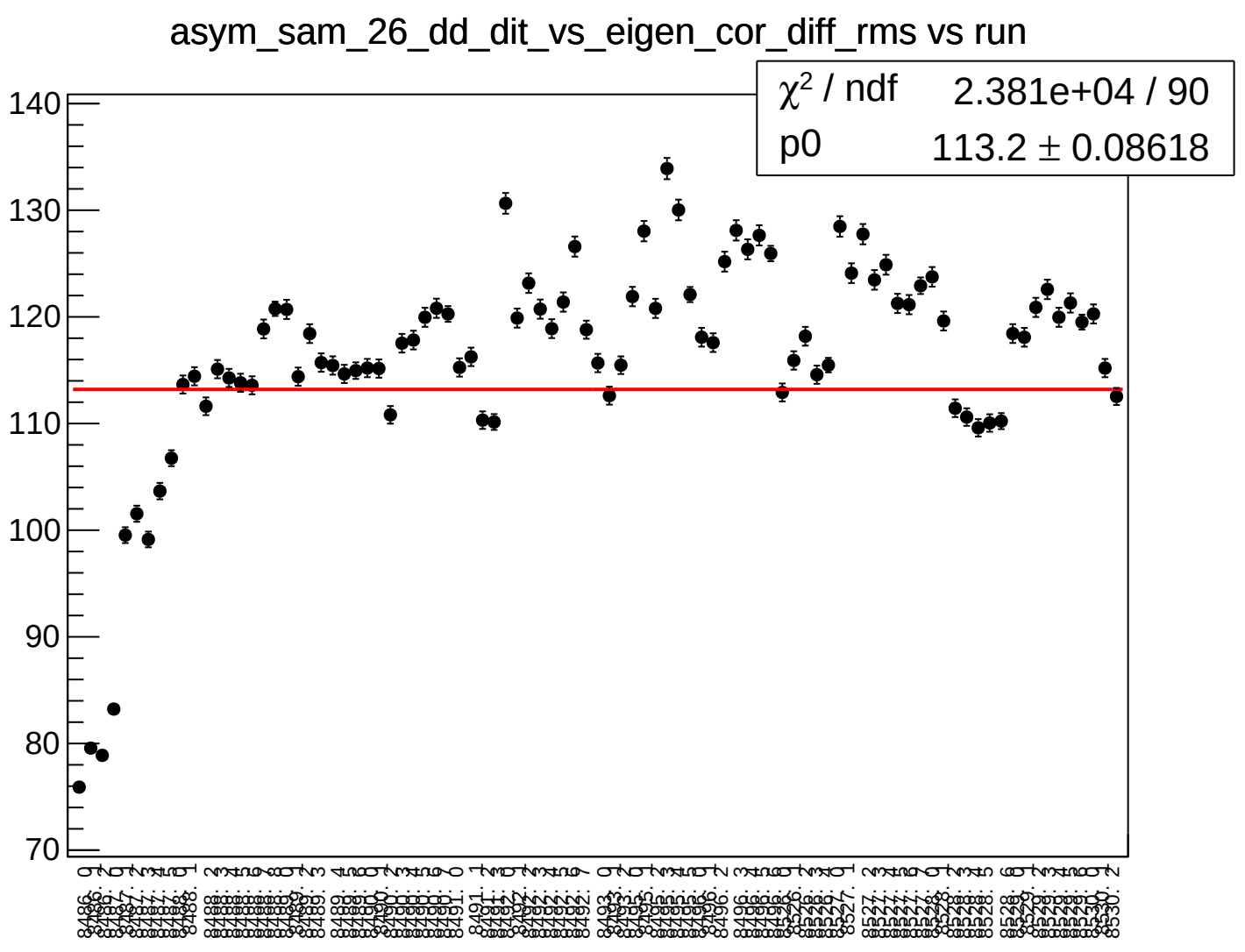

pull1D
Entries 91
Mean −0.09297
Std Dev 0.8989
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

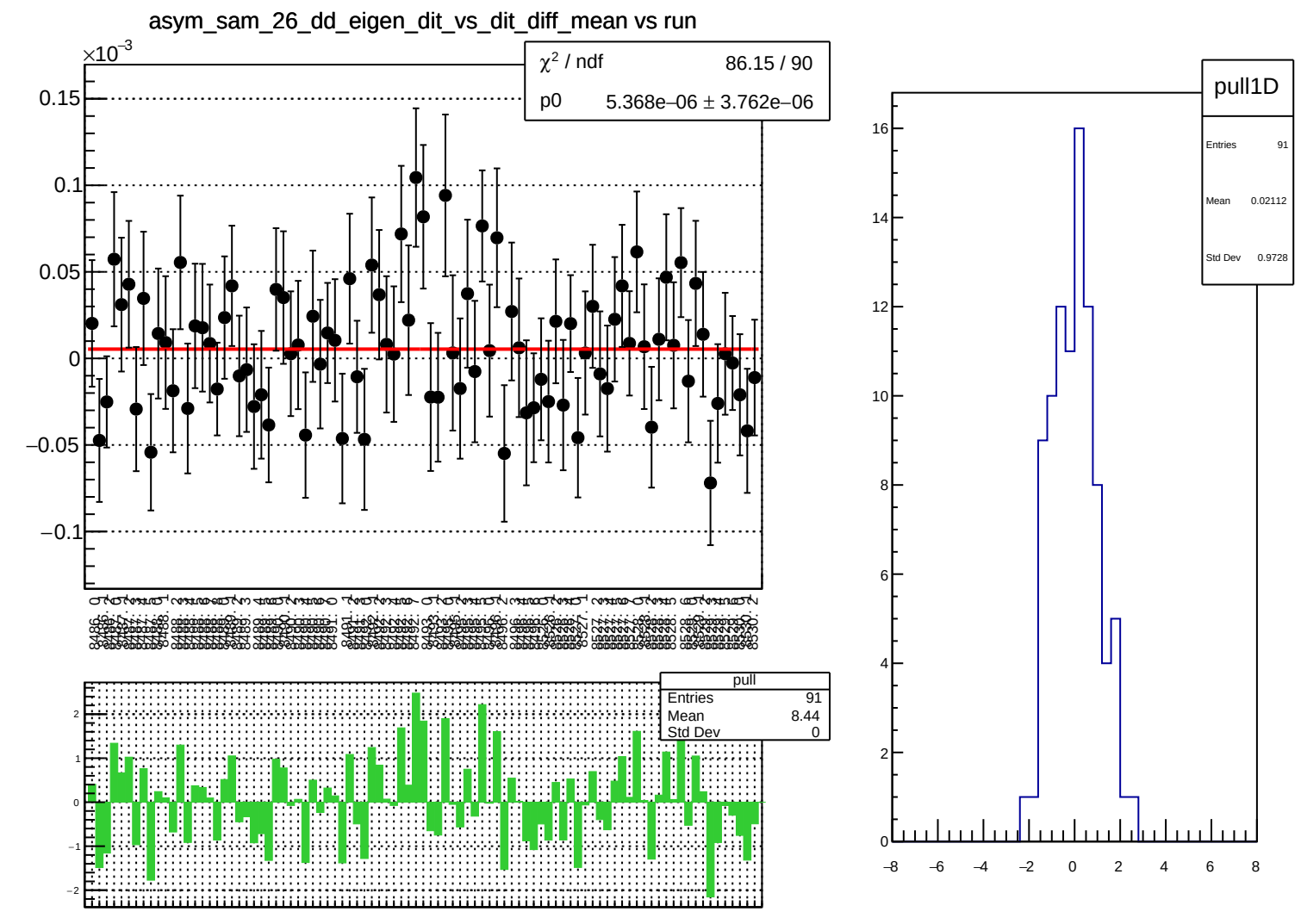

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.812e+05 / 90
p0 1.485e−10 ± 1.694e−13
0.1
0.08
0.06
0.04
0.02
0

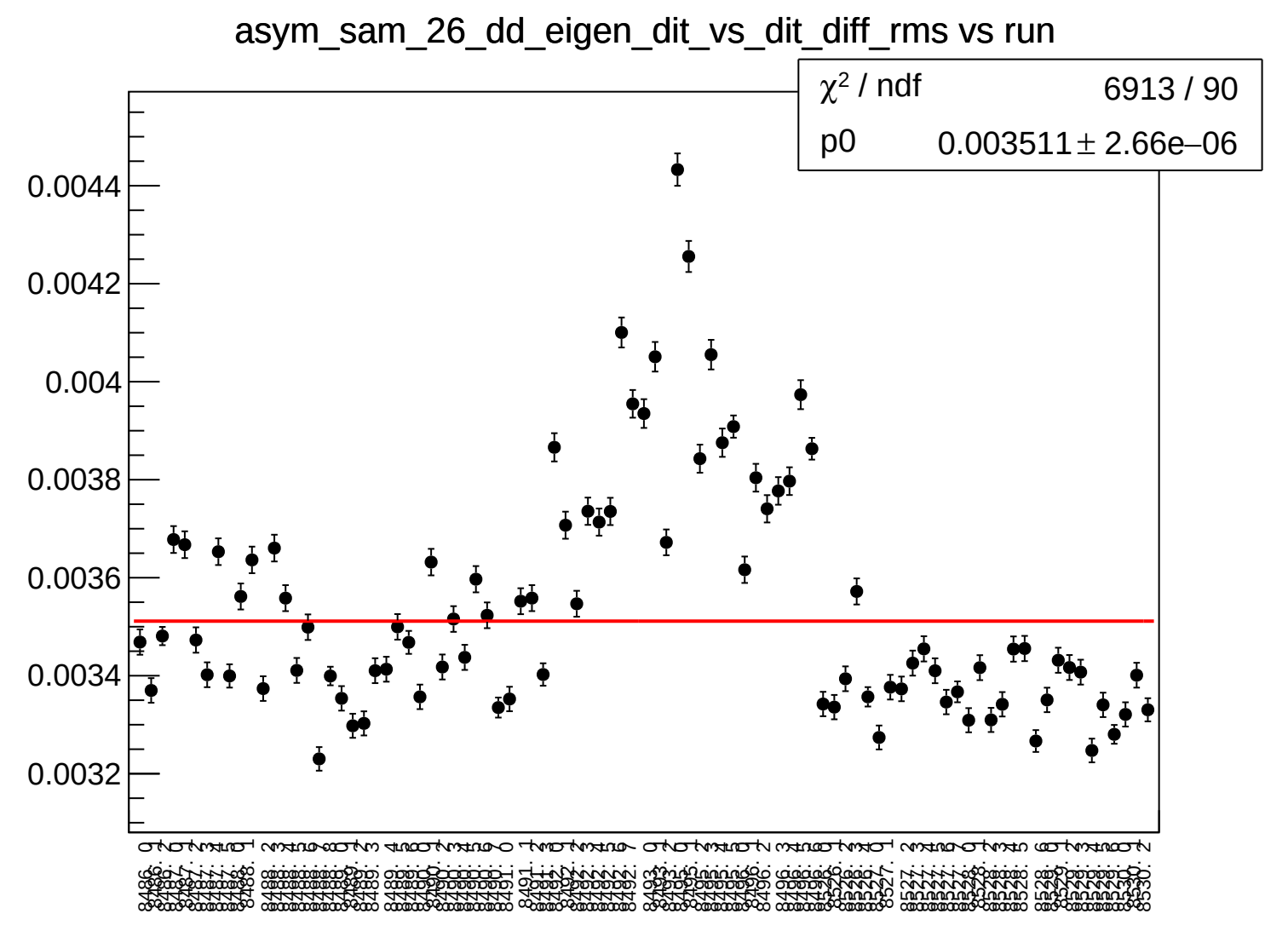

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.88 / 90
p0 −0.03825 ± 0.1219
pull
Entries 91
Mean 151.8
Std Dev 0
pull1D
Entries 91
Mean 0.02314
Std Dev 0.9824

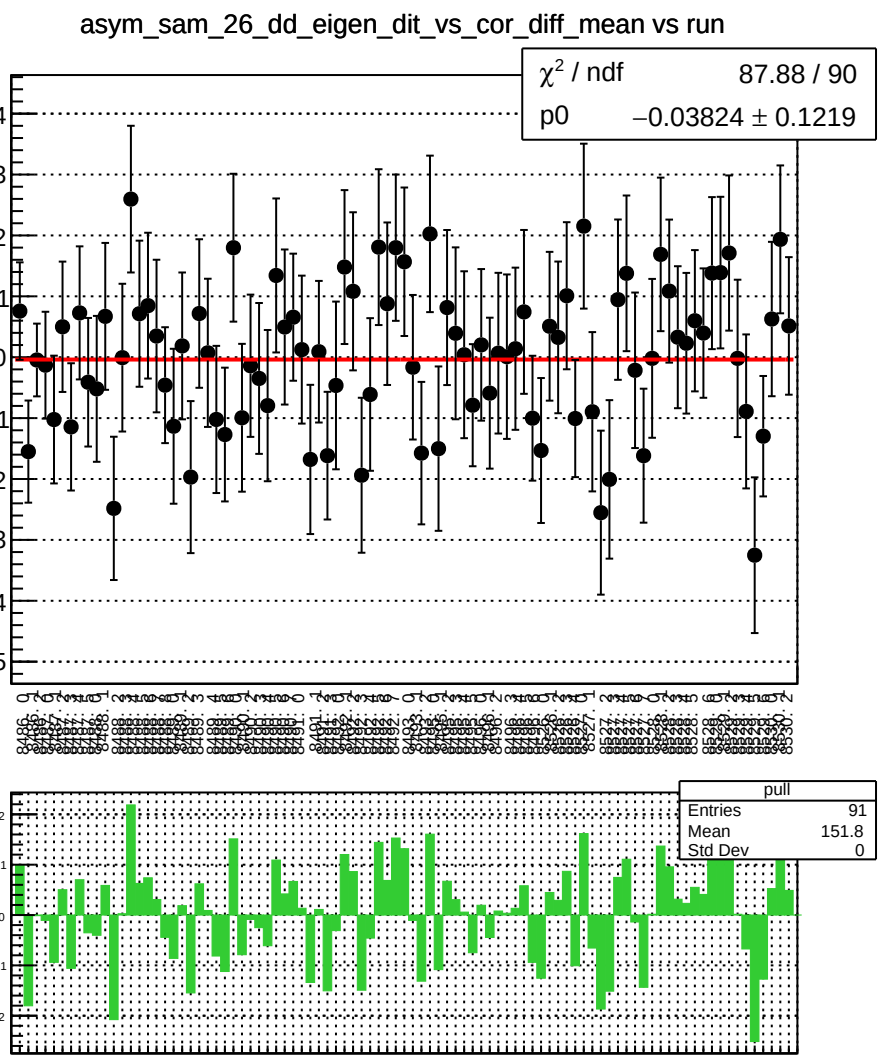

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.381e+04 / 90
p0 113.2 ± 0.08618
140
130
120
110
100
90
80
70

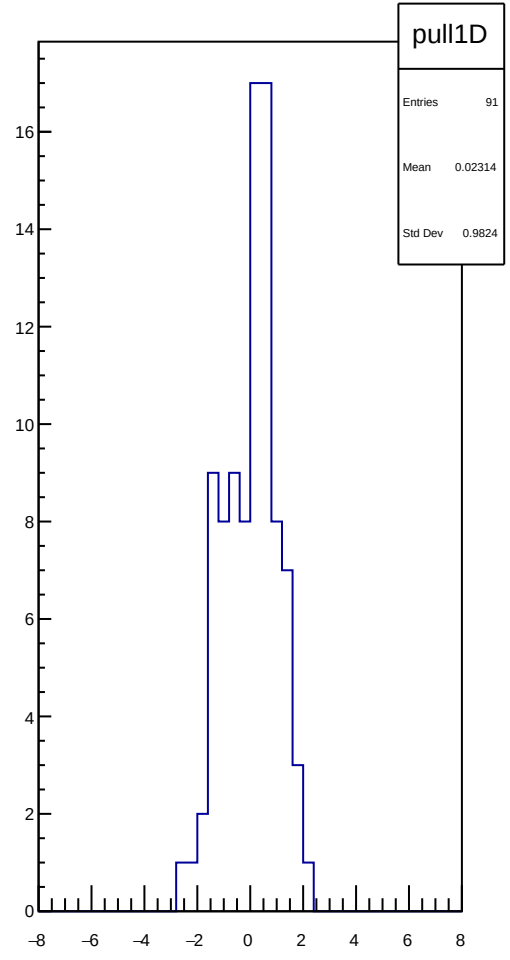

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.88 / 90
p0 −0.03825 ± 0.1219
pull
Entries 91
Mean 151.8
Std Dev 0
pull1D
Entries 91
Mean 0.02314
Std Dev 0.9824

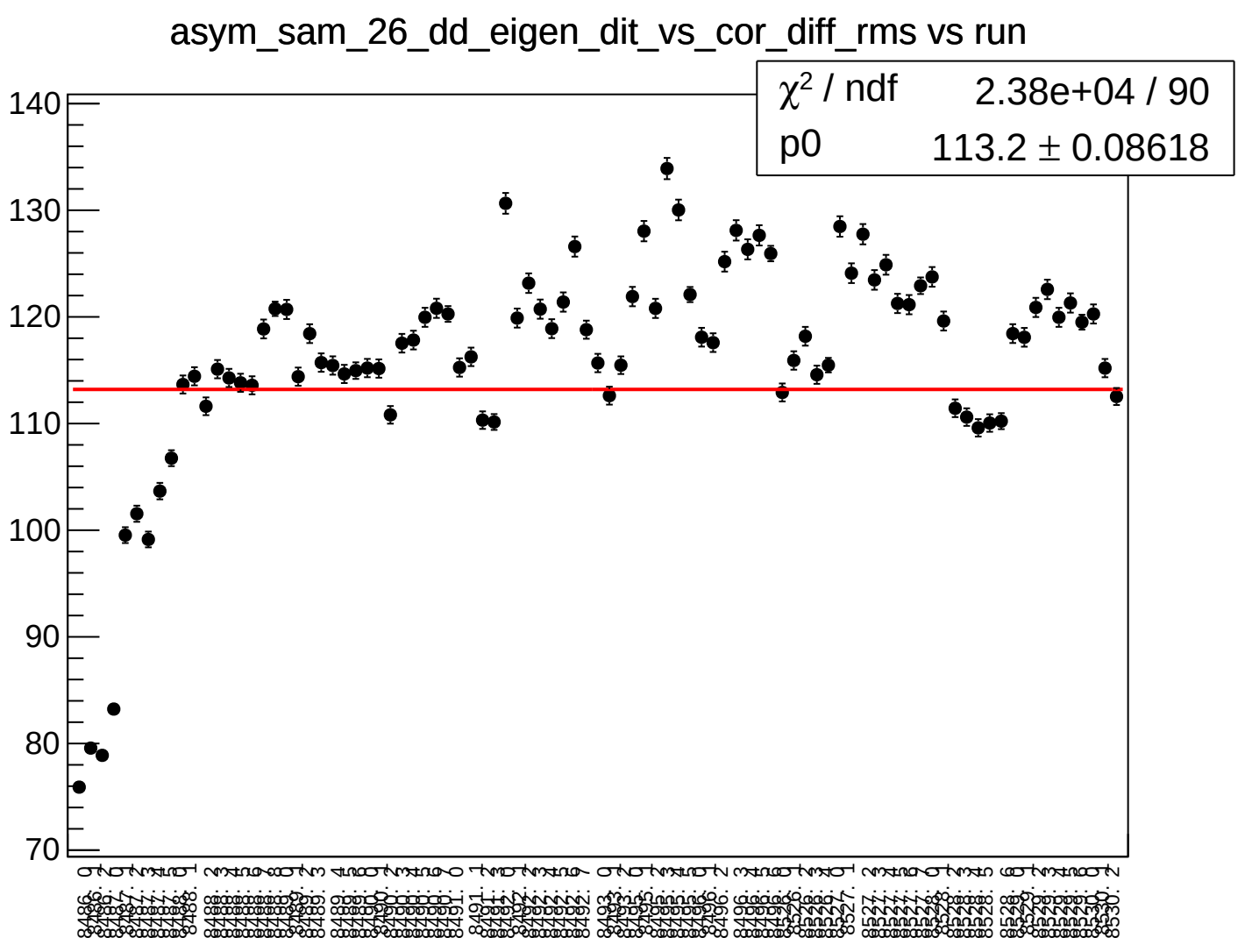

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.381e+04 / 90
p0 113.2 ± 0.08618
140
130
120
110
100
90
80
70

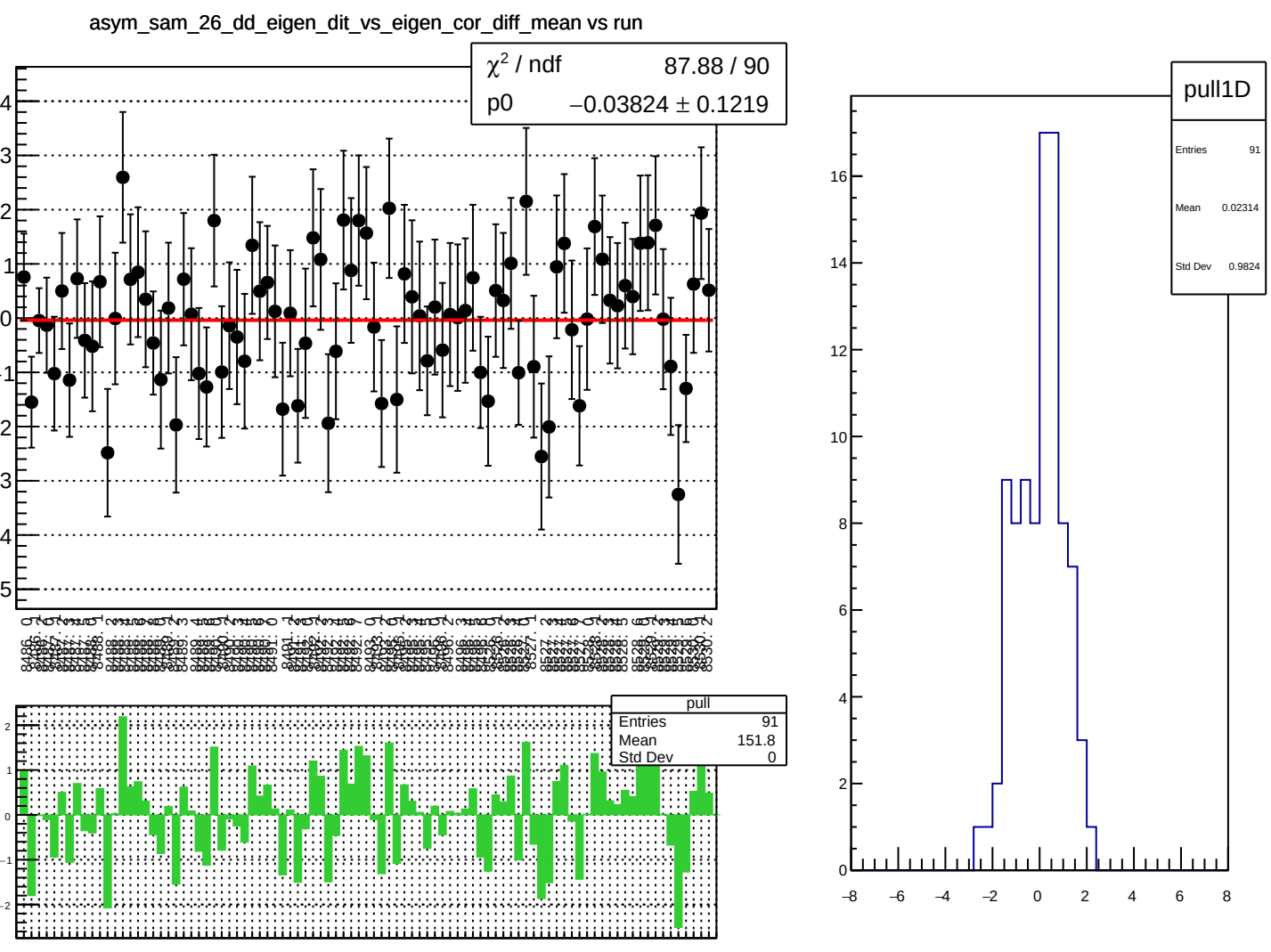

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.15 / 90
p0 5.368e−06 ± 3.762e−06
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 91
Mean 8.44
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.02112
Std Dev 0.9728
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

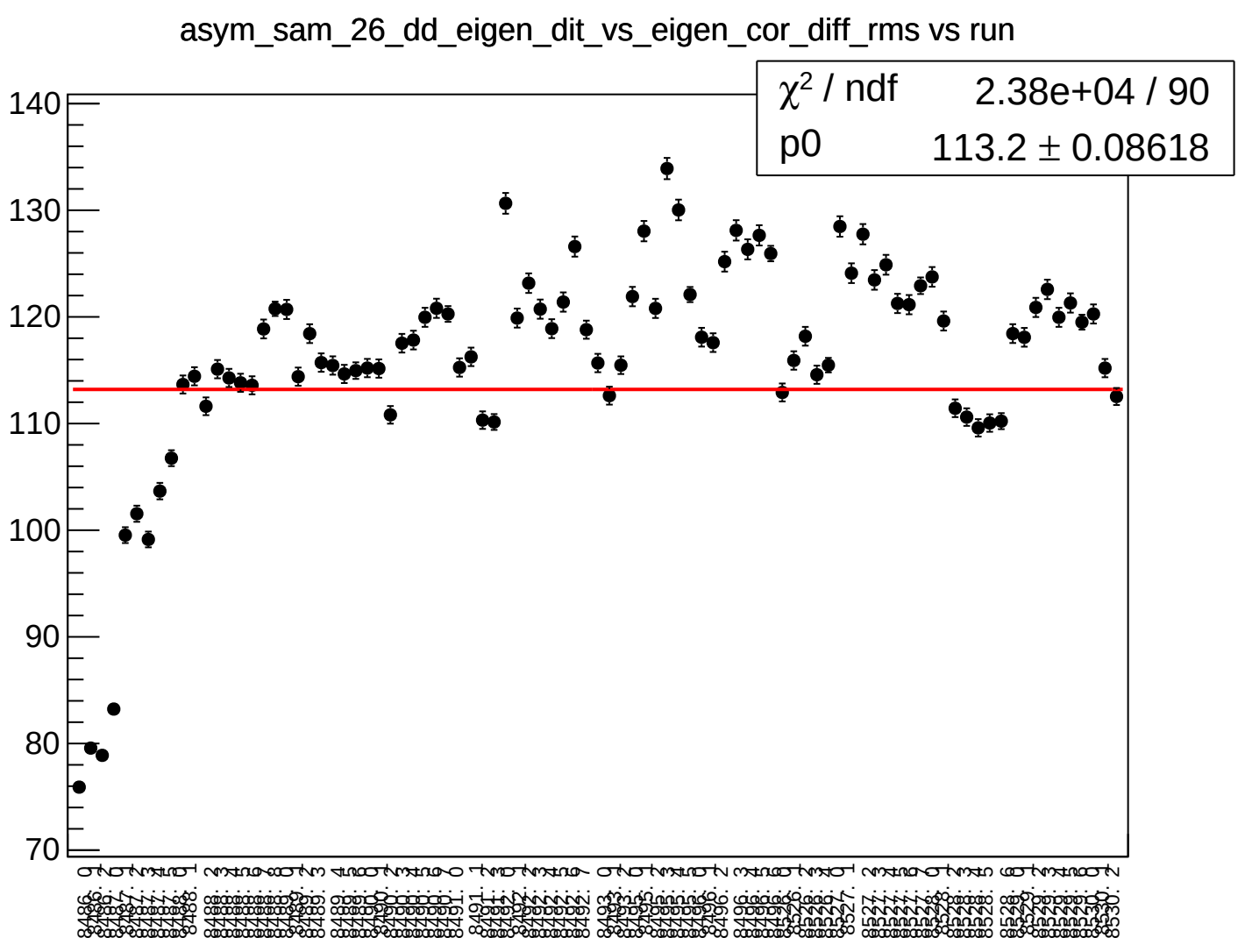

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6913 / 90
p0 0.003511 ± 2.66e−06
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032

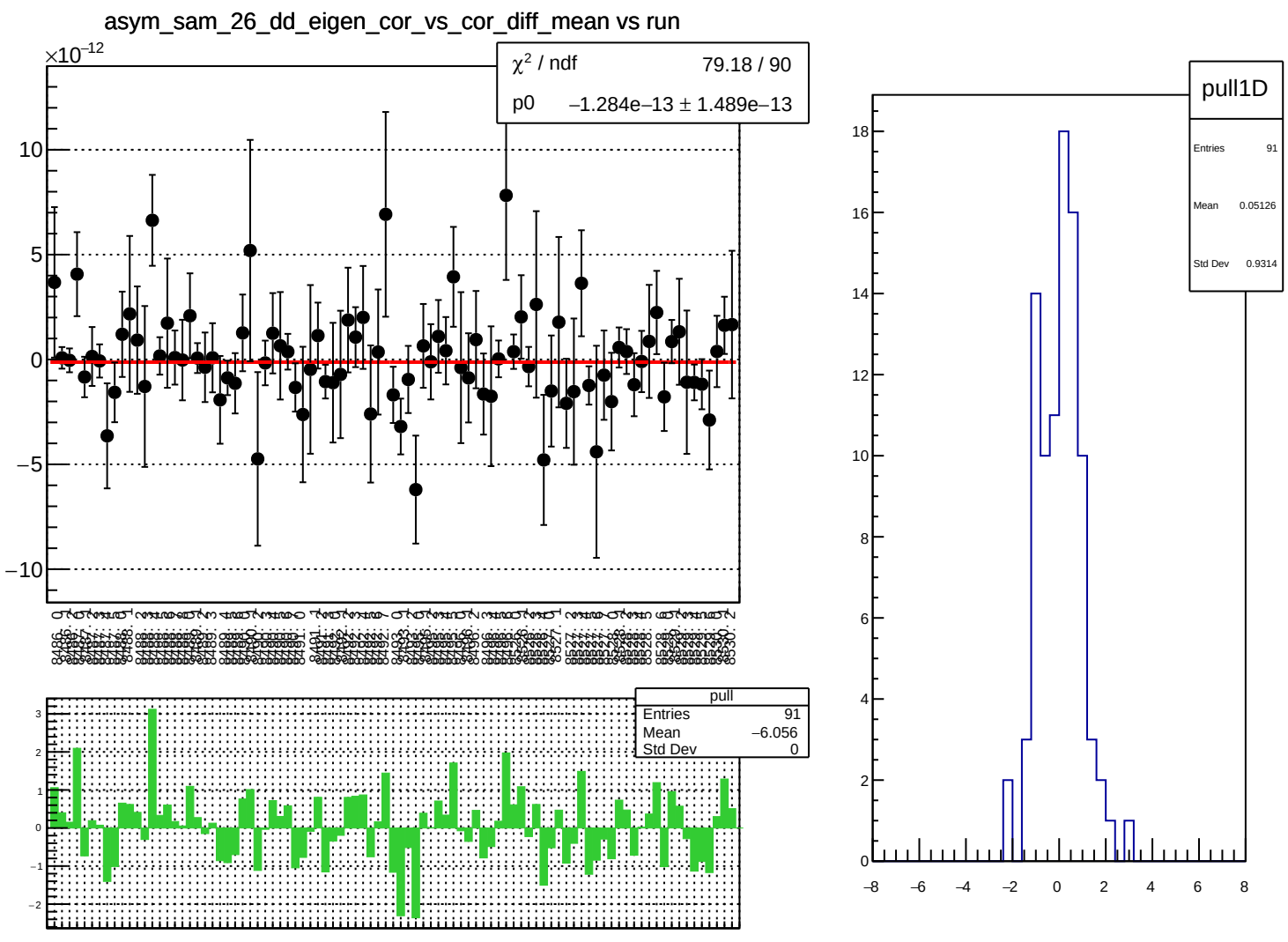

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.88 / 90
p0 −0.03824 ± 0.1219
pull
Entries 91
Mean 151.8
Std Dev 0

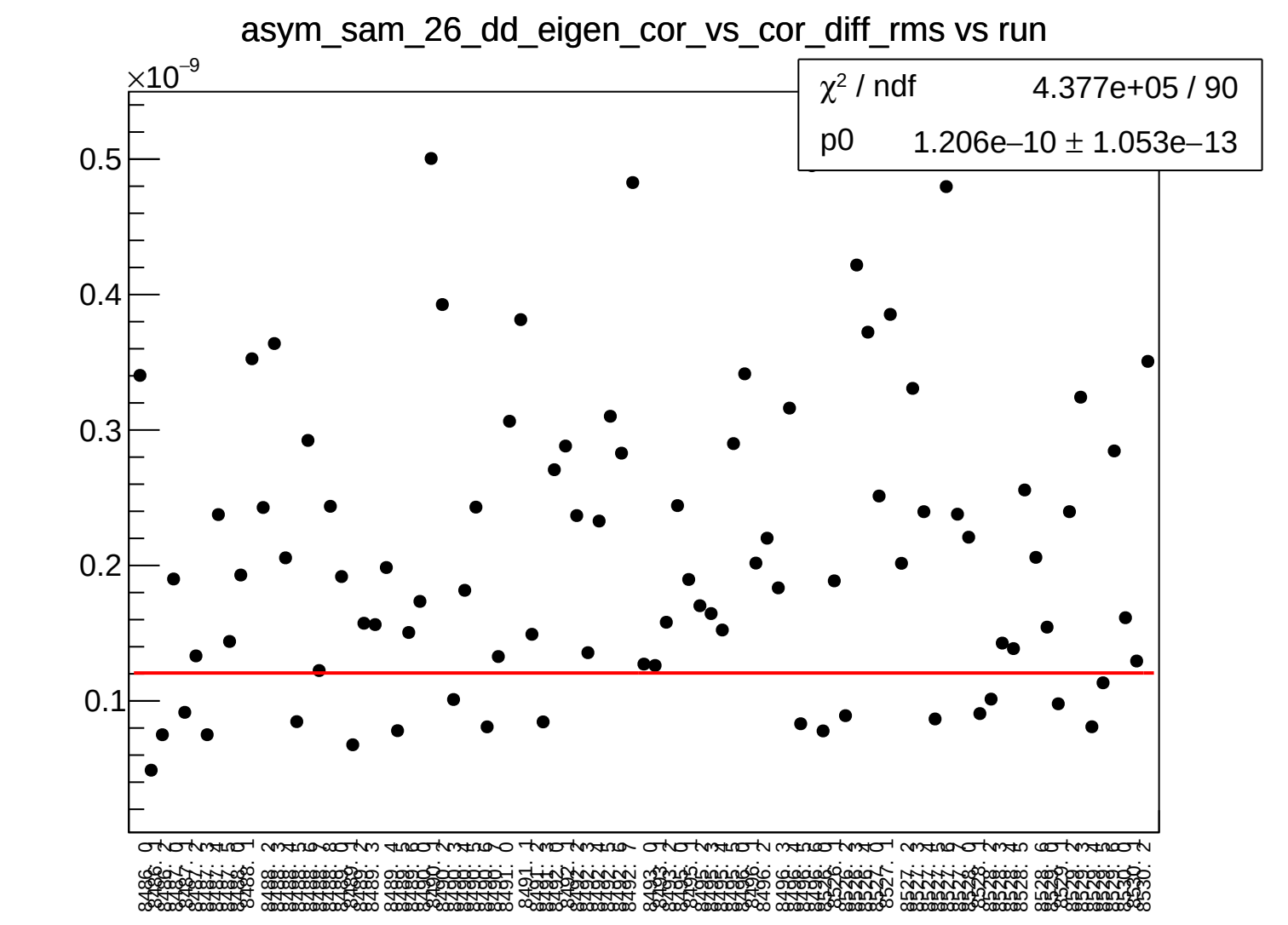

pull1D
Entries 91
Mean 0.02314
Std Dev 0.9824

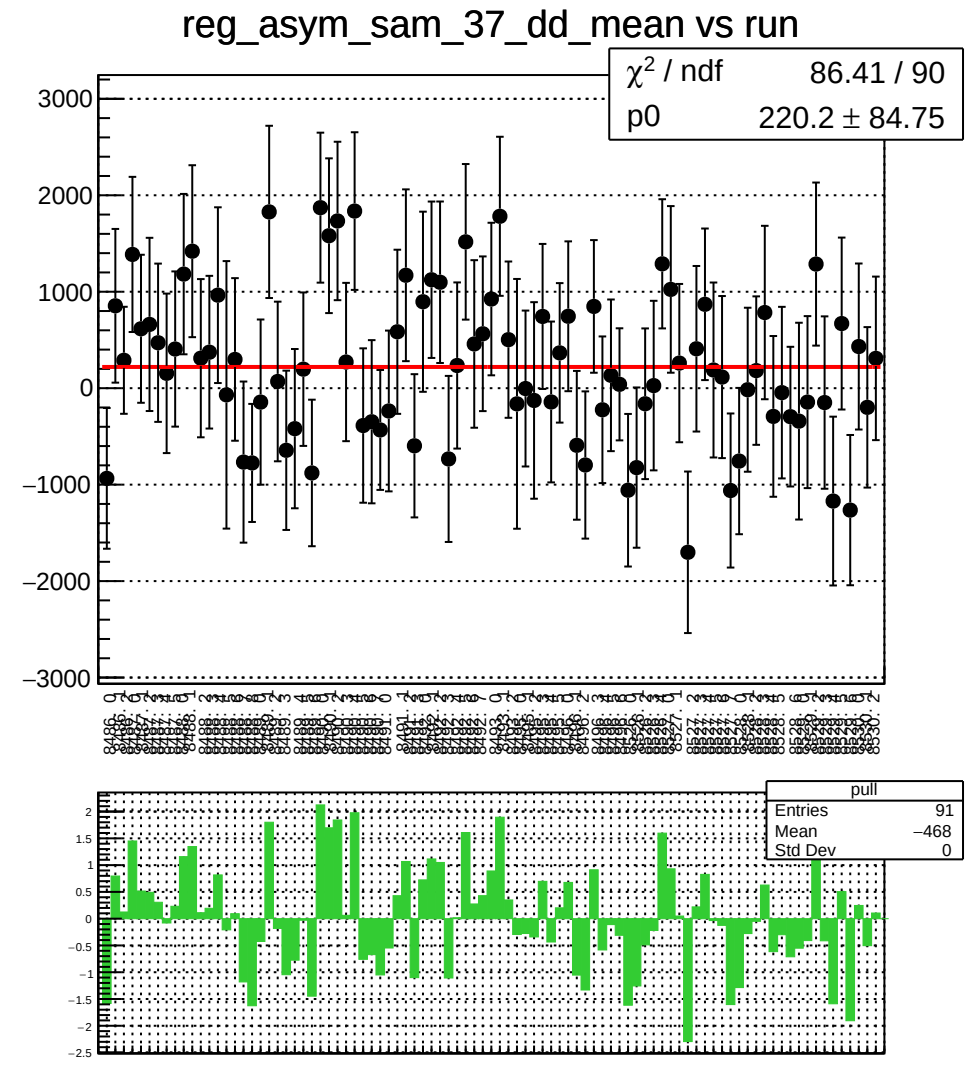

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.38e+04 / 90
p0 113.2 ± 0.08618
140
130
120
110
100
90
80
70

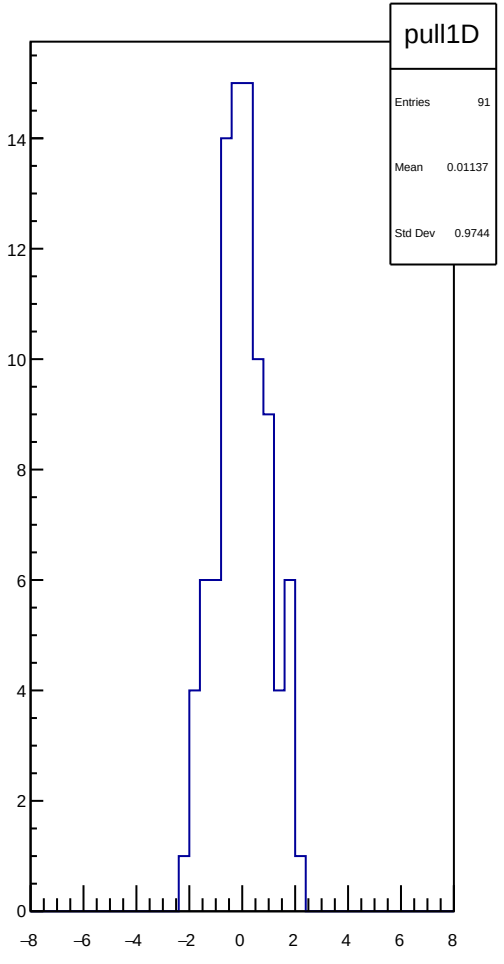

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.88 / 90
p0 −0.03824 ± 0.1219
pull
Entries 91
Mean 151.8
Std Dev 0
pull1D
Entries 91
Mean 0.02314
Std Dev 0.9824

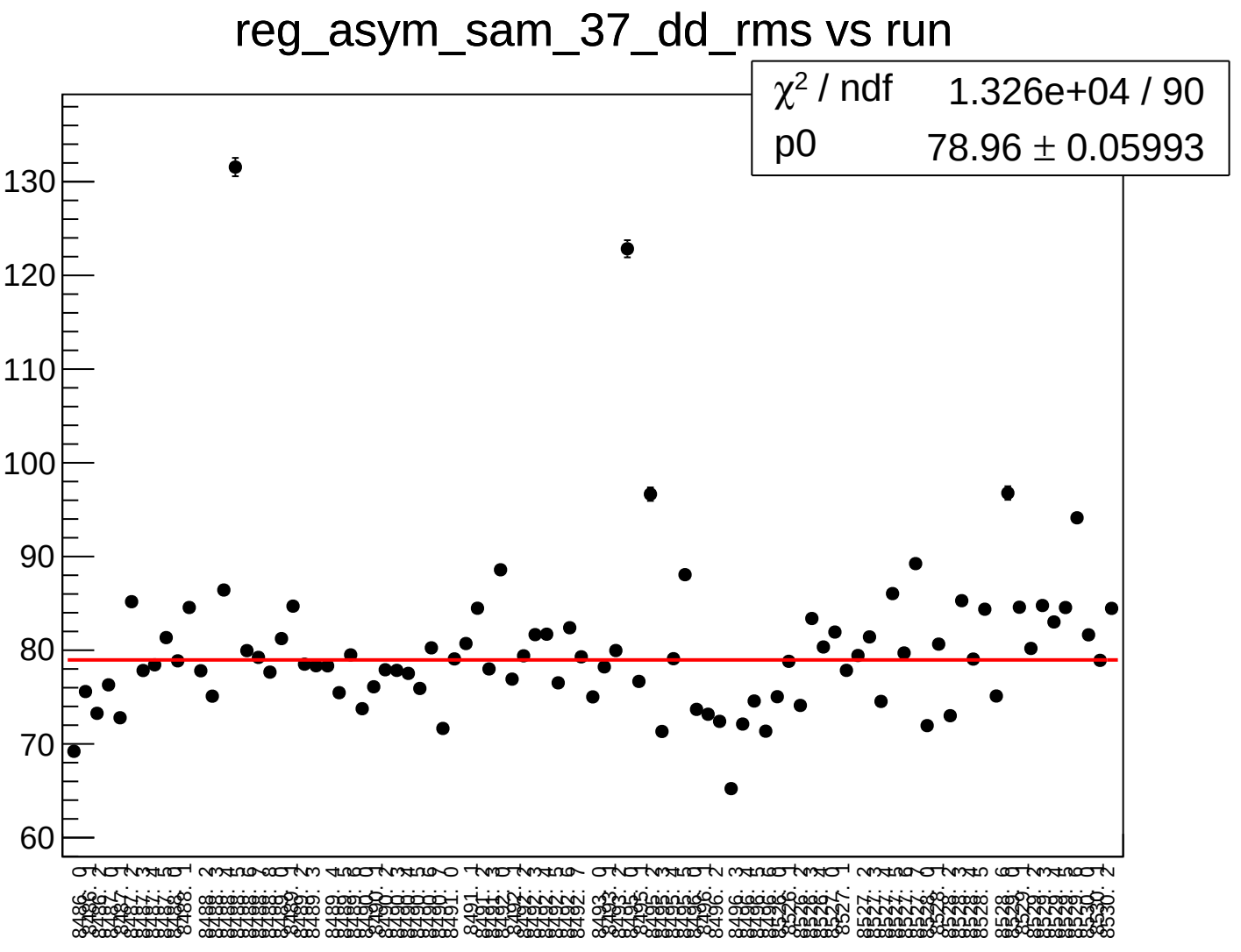

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.38e+04 / 90
p0 113.2 ± 0.08618
140
130
120
110
100
90
80
70

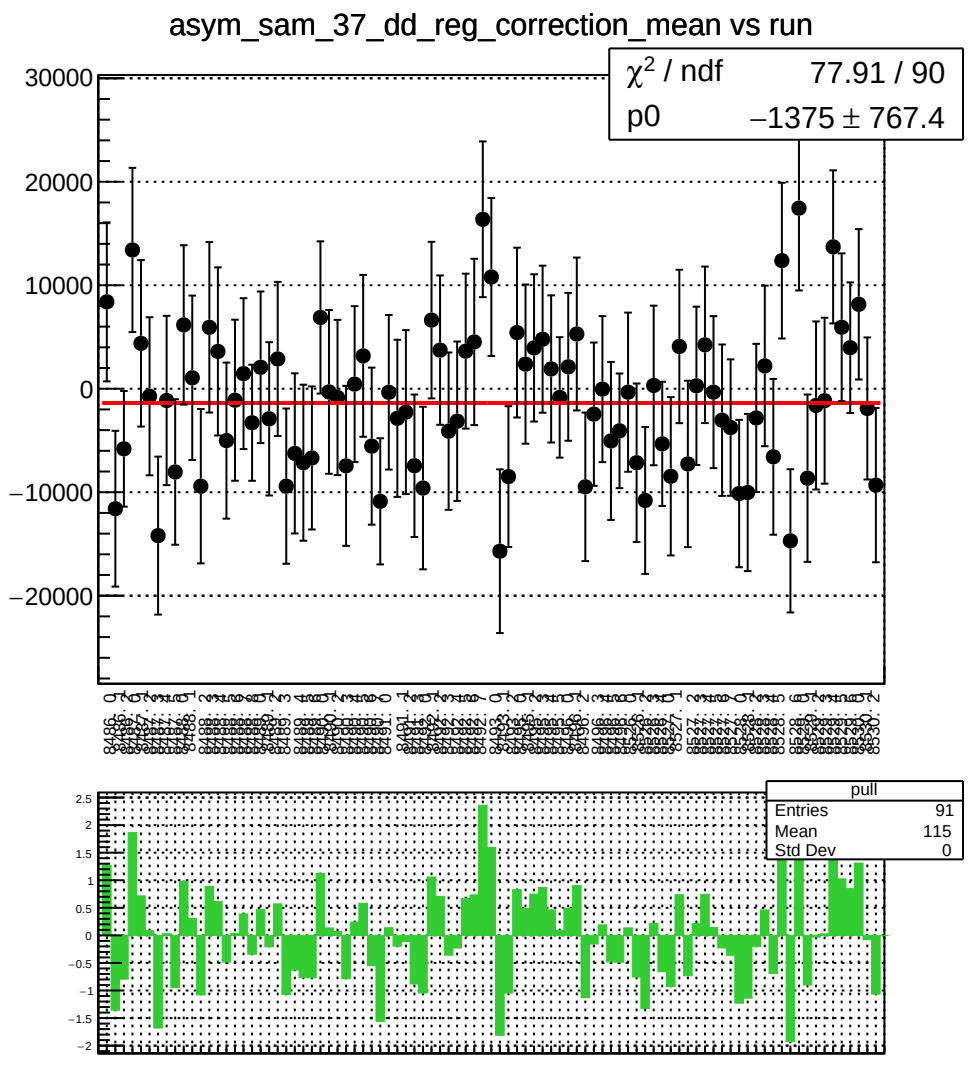

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.18 / 90
p0 −1.284e−13 ± 1.489e−13
10
5
0
−5
−10
pull
Entries 91
Mean −6.056
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.05126
Std Dev 0.9314
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

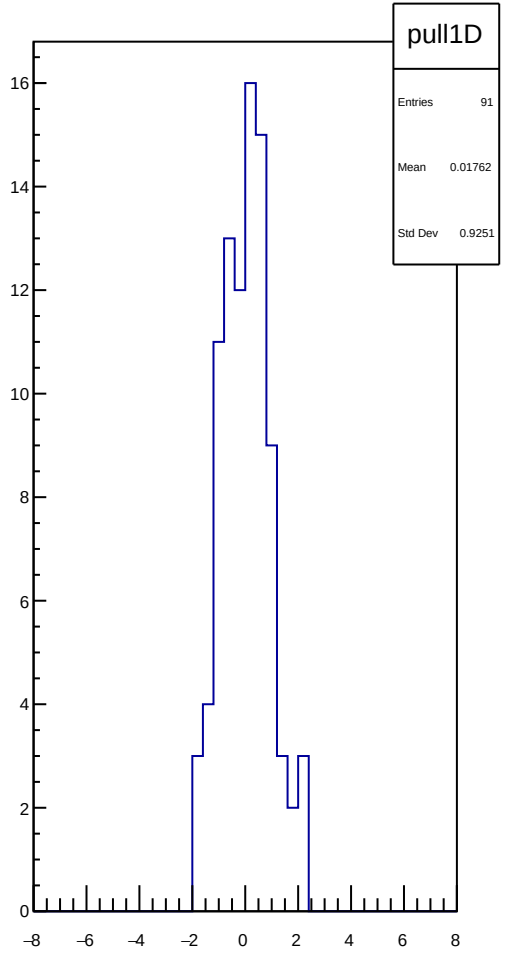

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.377e+05 / 90
p0 1.206e−10 ± 1.053e−13
0.5
0.4
0.3
0.2
0.1

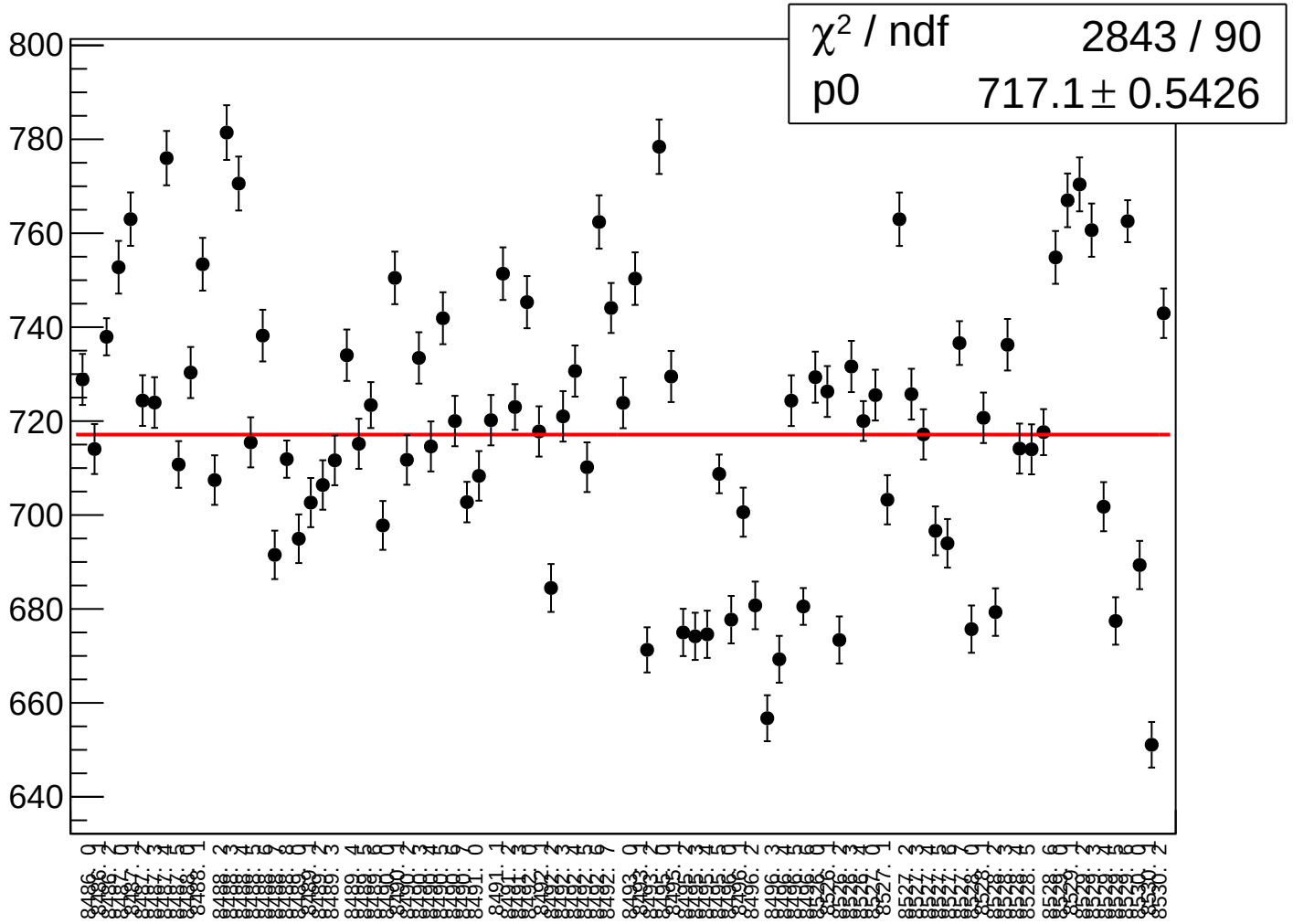

reg_asym_sam_37_dd_mean vs run
χ² / ndf 86.41 / 90
p0 220.2 ± 84.75
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 91
Mean −468
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

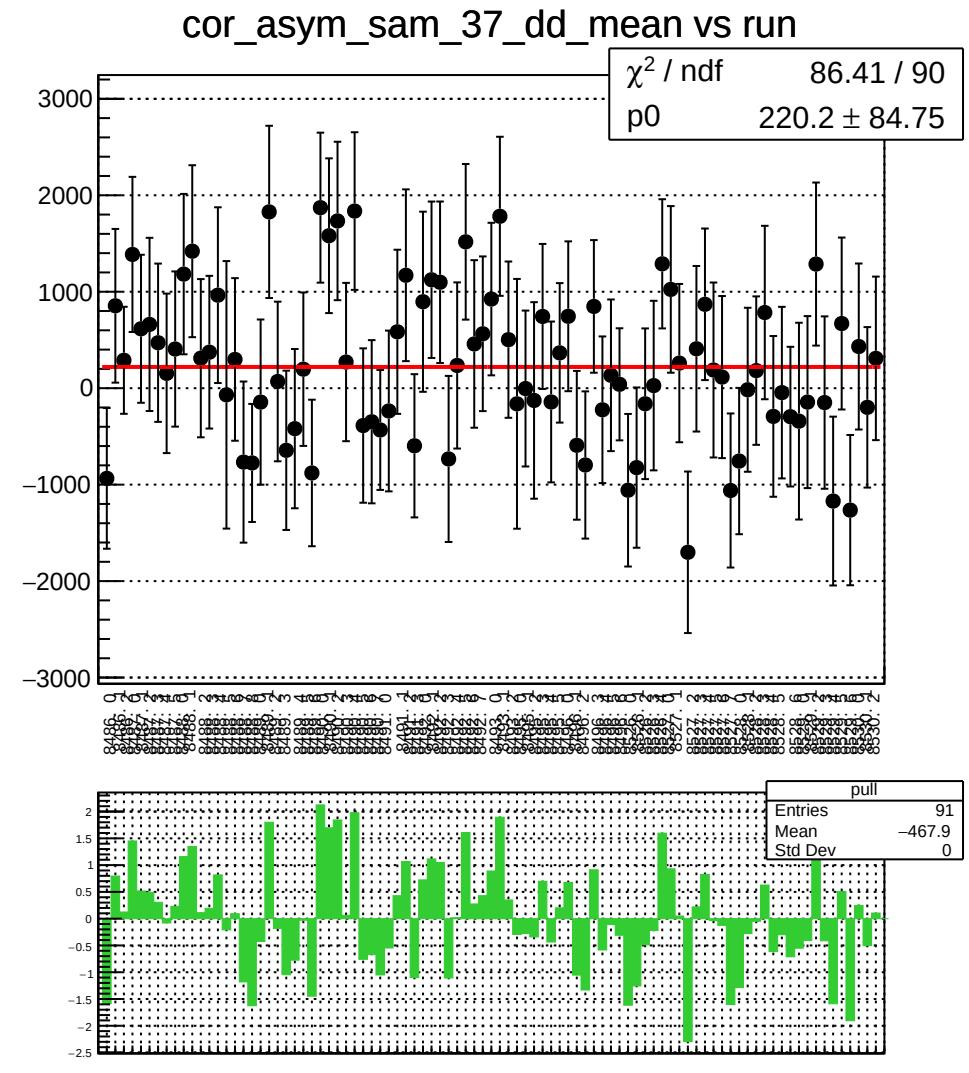

pull1D
Entries 91
Mean 0.01137
Std Dev 0.9744
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

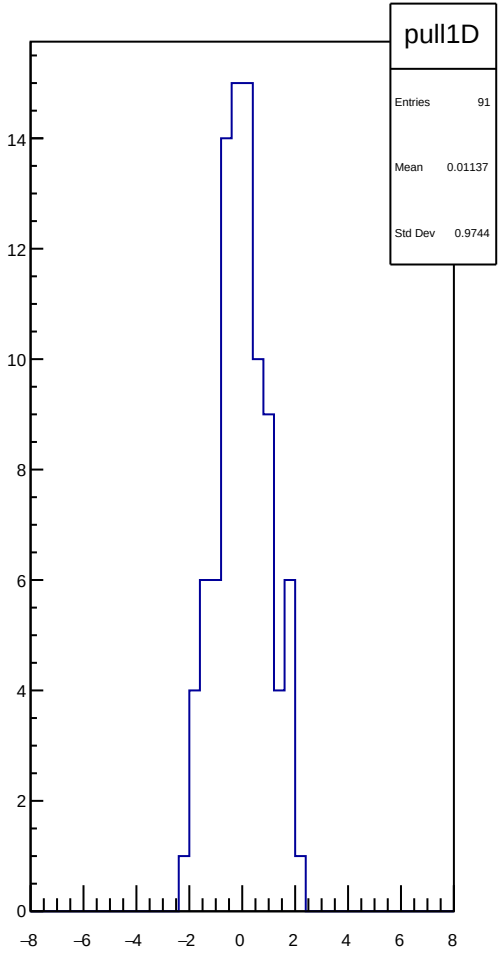

reg_asym_sam_37_dd_rms vs run
χ² / ndf 1.326e+04 / 90
p0 78.96 ± 0.05993
130
120
110
100
90
80
70
60

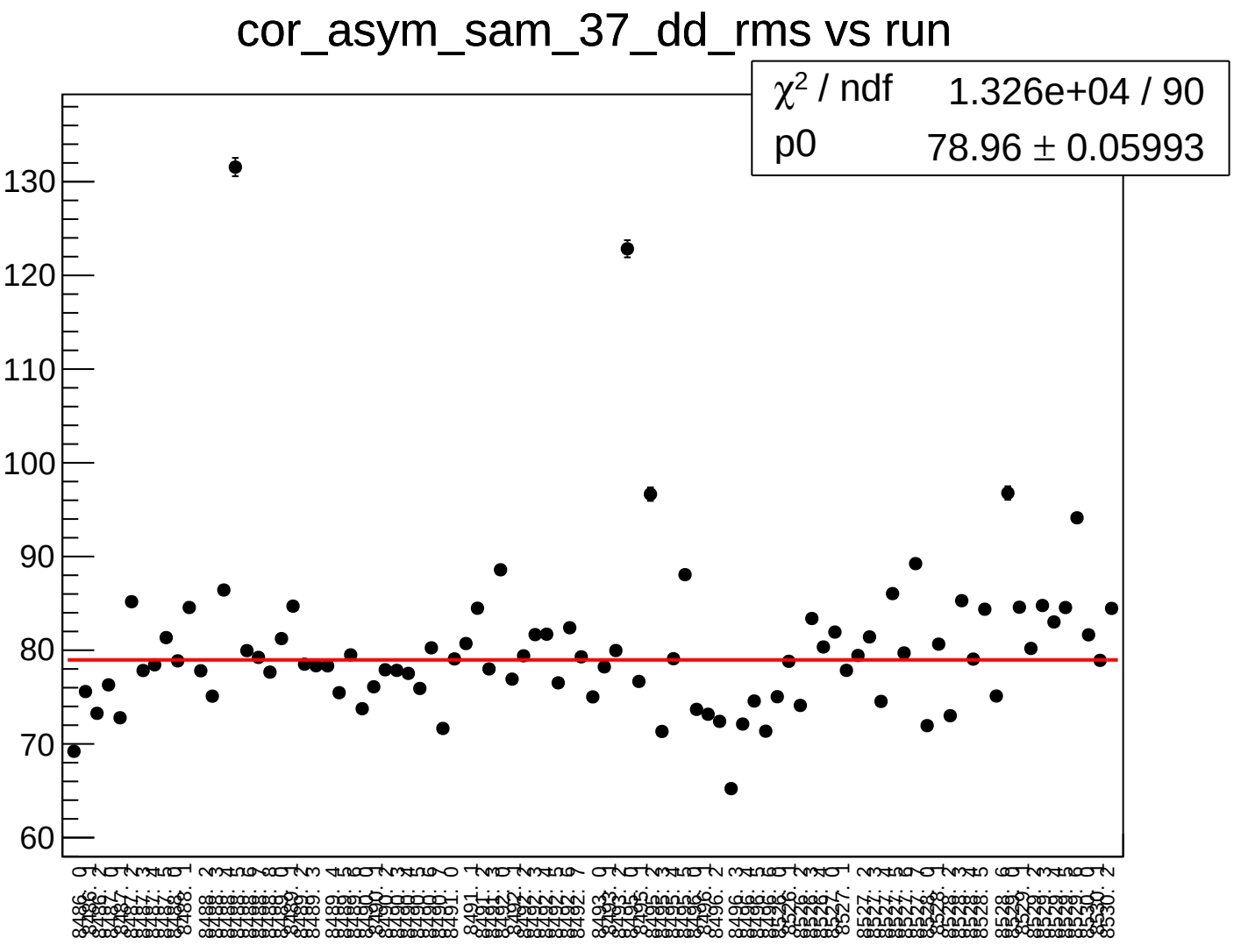

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 77.91 / 90
p0 −1375 ± 767.4
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 115
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

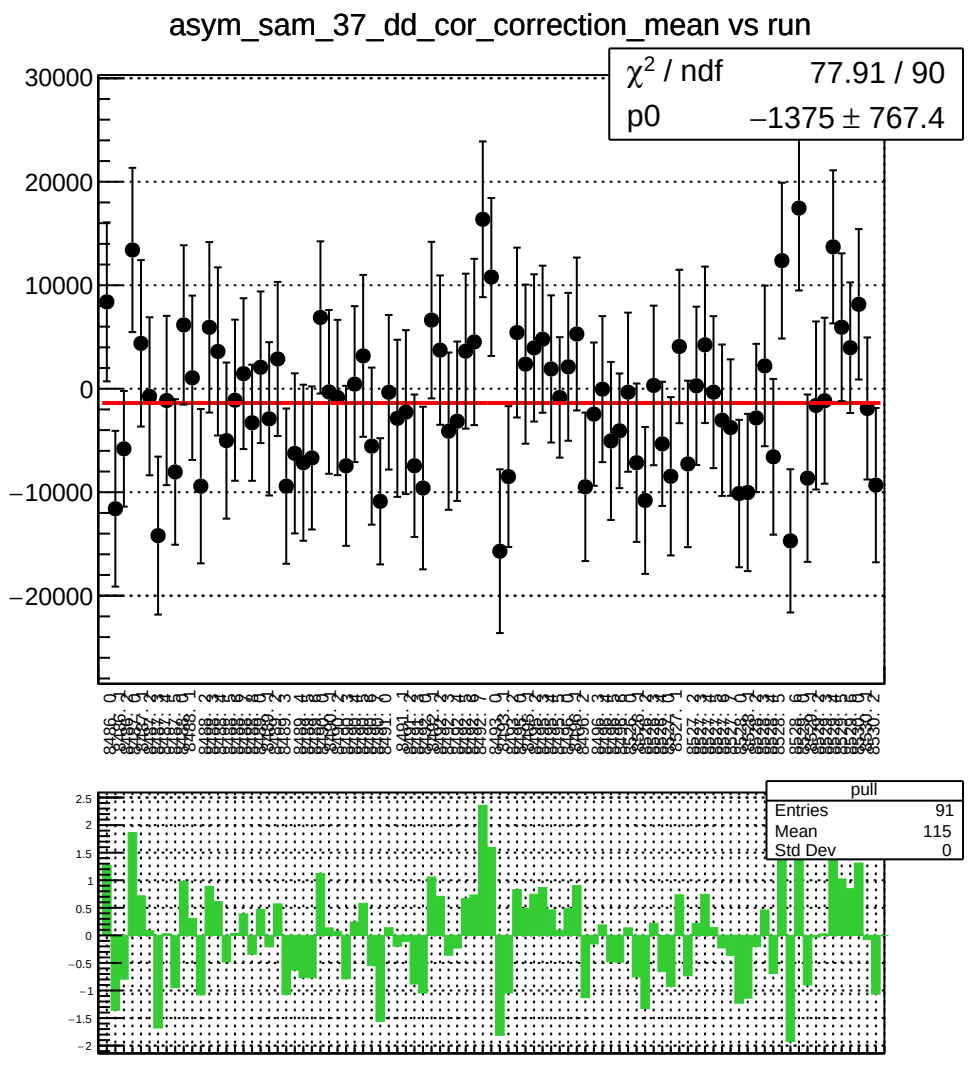

pull1D
Entries 91
Mean 0.01762
Std Dev 0.9251
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

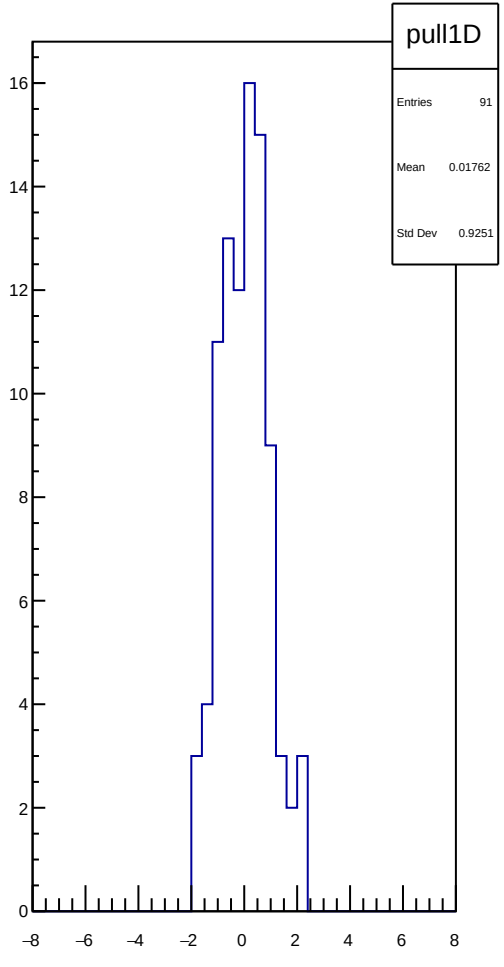

asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 2843 / 90
p0 717.1 ± 0.5426
800
780
760
740
720
700
680
660
640

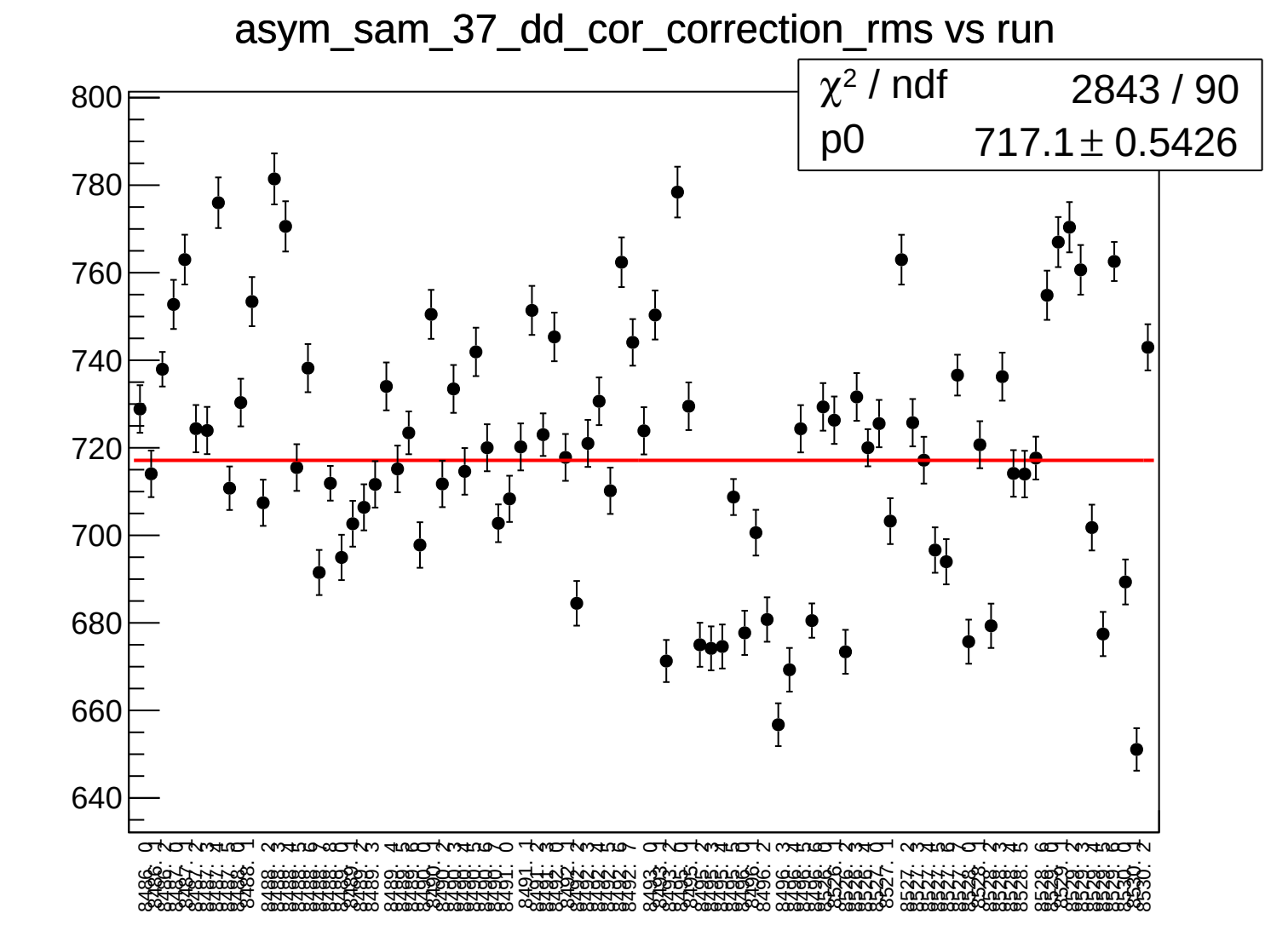

cor_asym_sam_37_dd_mean vs run
χ² / ndf 86.41 / 90
p0 220.2 ± 84.75
pull
Entries 91
Mean −467.9
Std Dev 0

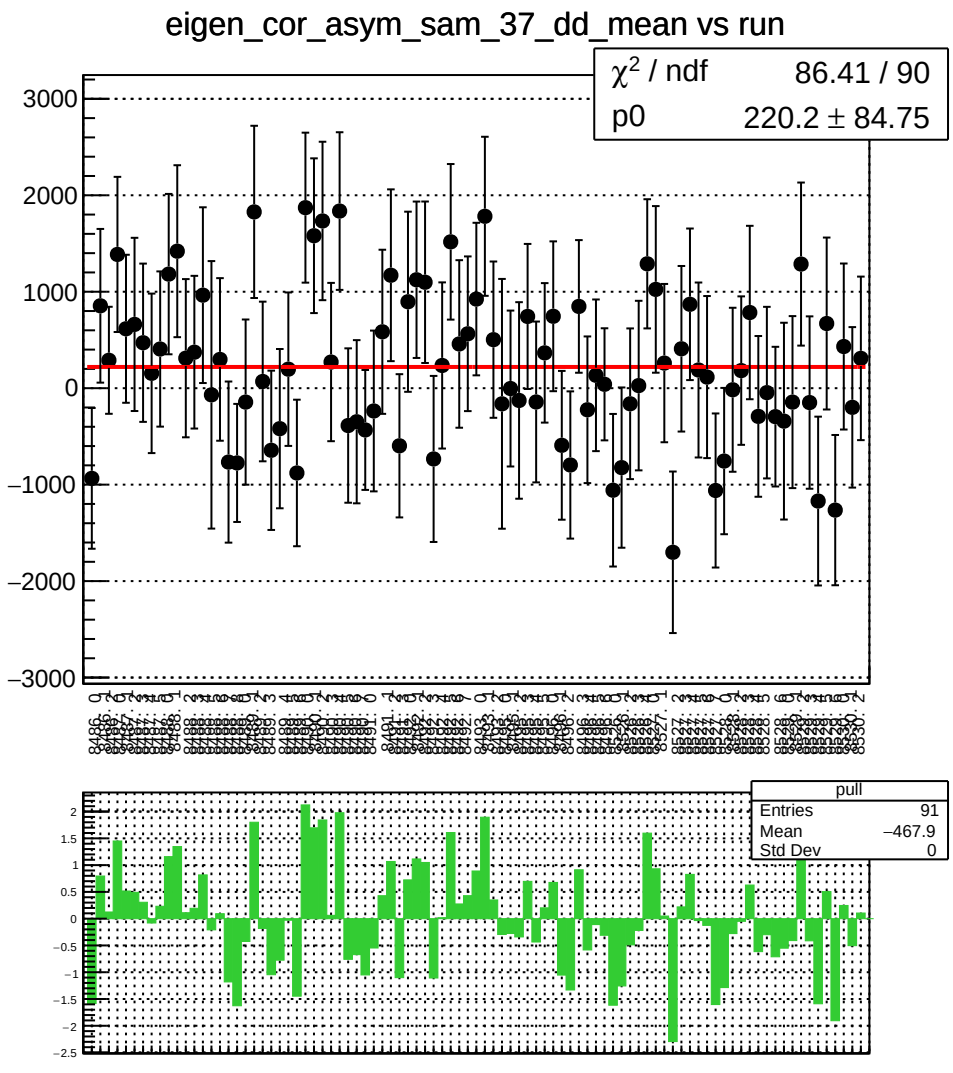

pull1D
Entries 91
Mean 0.01137
Std Dev 0.9744

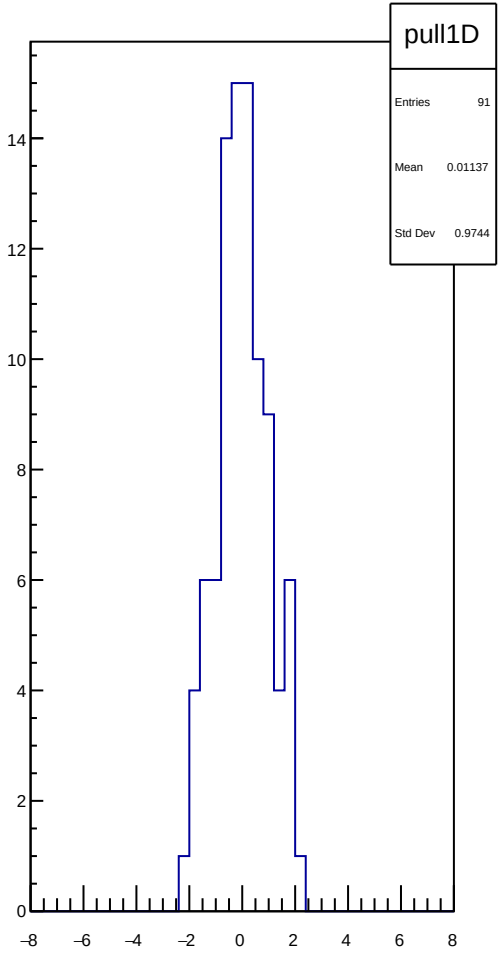

cor_asym_sam_37_dd_rms vs run
χ^2 / ndf 1.326e+04 / 90
p0 78.96 ± 0.05993
130
120
110
100
90
80
70
60


asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 77.91 / 90
p0 −1375 ± 767.4
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 115
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 91
Mean 0.01762
Std Dev 0.9251
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 2843 / 90
p0 717.1 ± 0.5426
800
780
760
740
720
700
680
660
640


eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 86.41 / 90
p0 220.2 ± 84.75
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 91
Mean −467.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 91
Mean 0.01137
Std Dev 0.9744
14
12
10
8
6
4
2
0
−8
−6
−4
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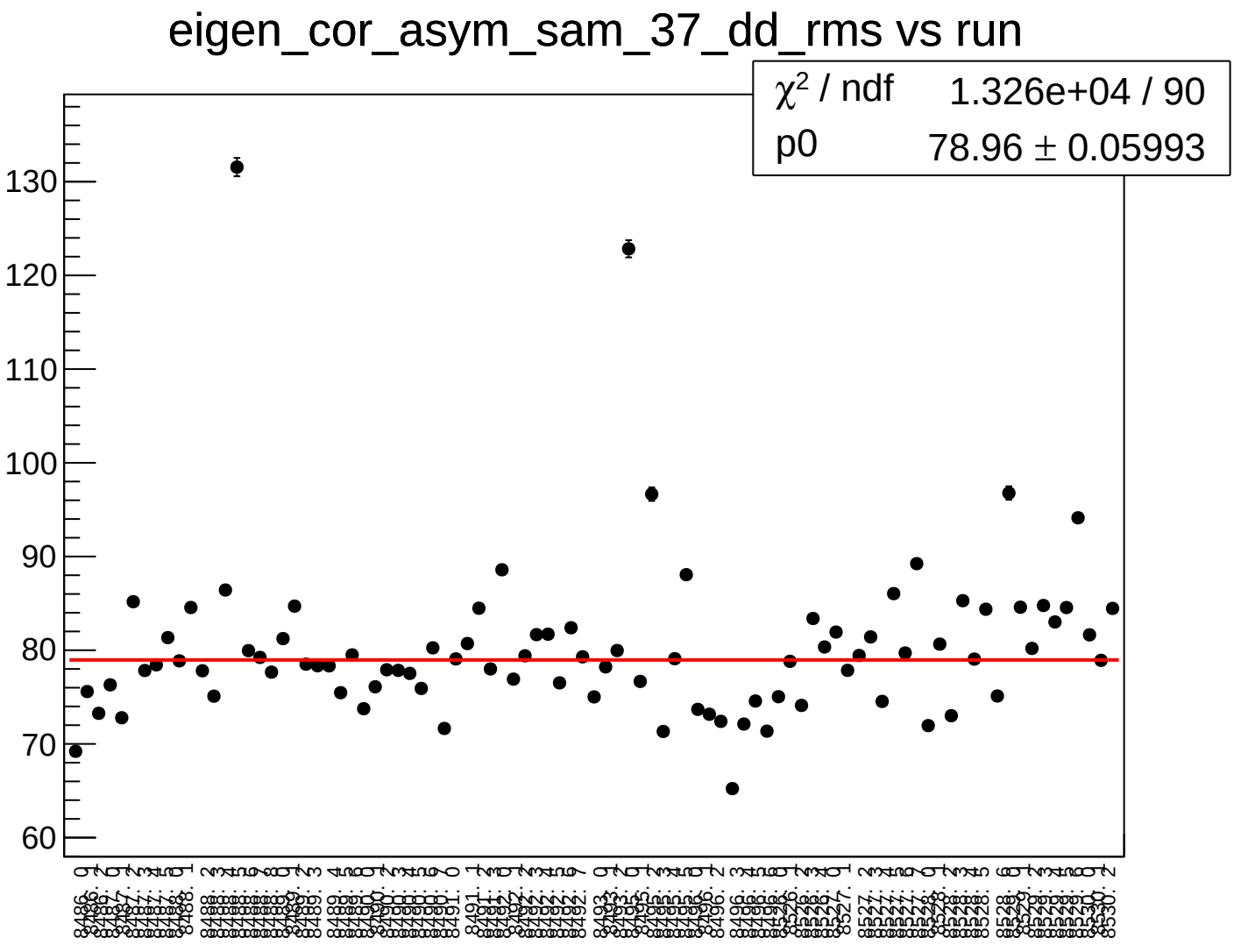
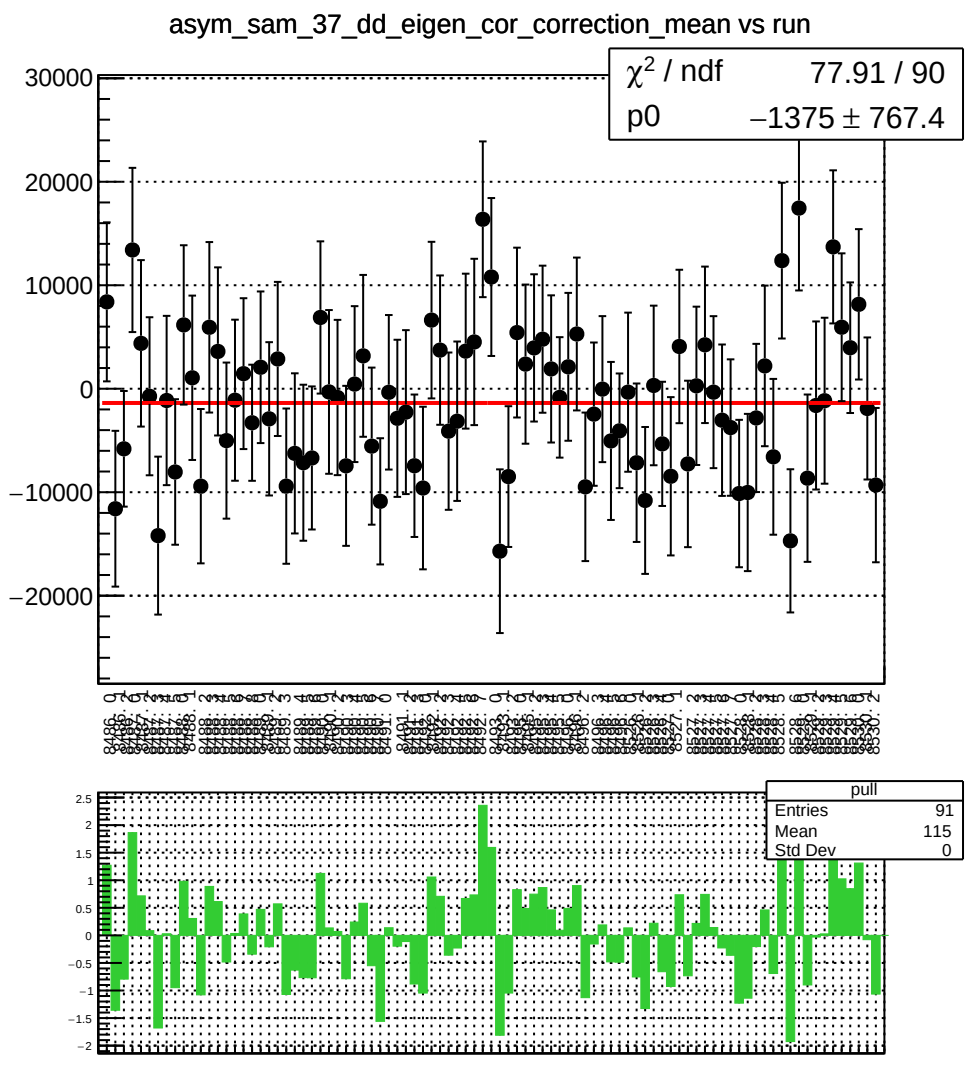
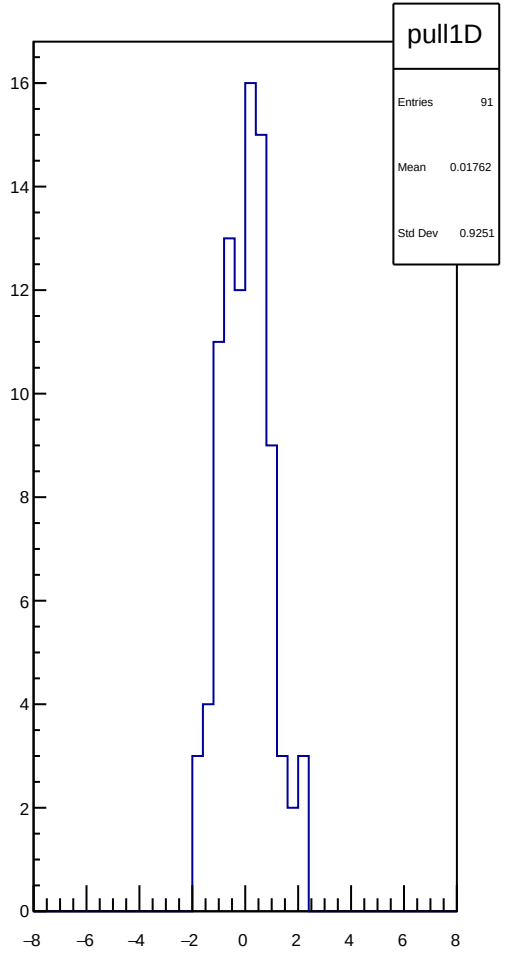
2
4
6
8


eigen_cor_asym_sam_37_dd_rms vs run
χ² / ndf 1.326e+04 / 90
p0 78.96 ± 0.05993
130
120
110
100
90
80
70
60


asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 77.91 / 90
p0 −1375 ± 767.4
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 115
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 91
Mean 0.01762
Std Dev 0.9251
16
14
12
10
8
6
4
2
0
−8
−6
−4
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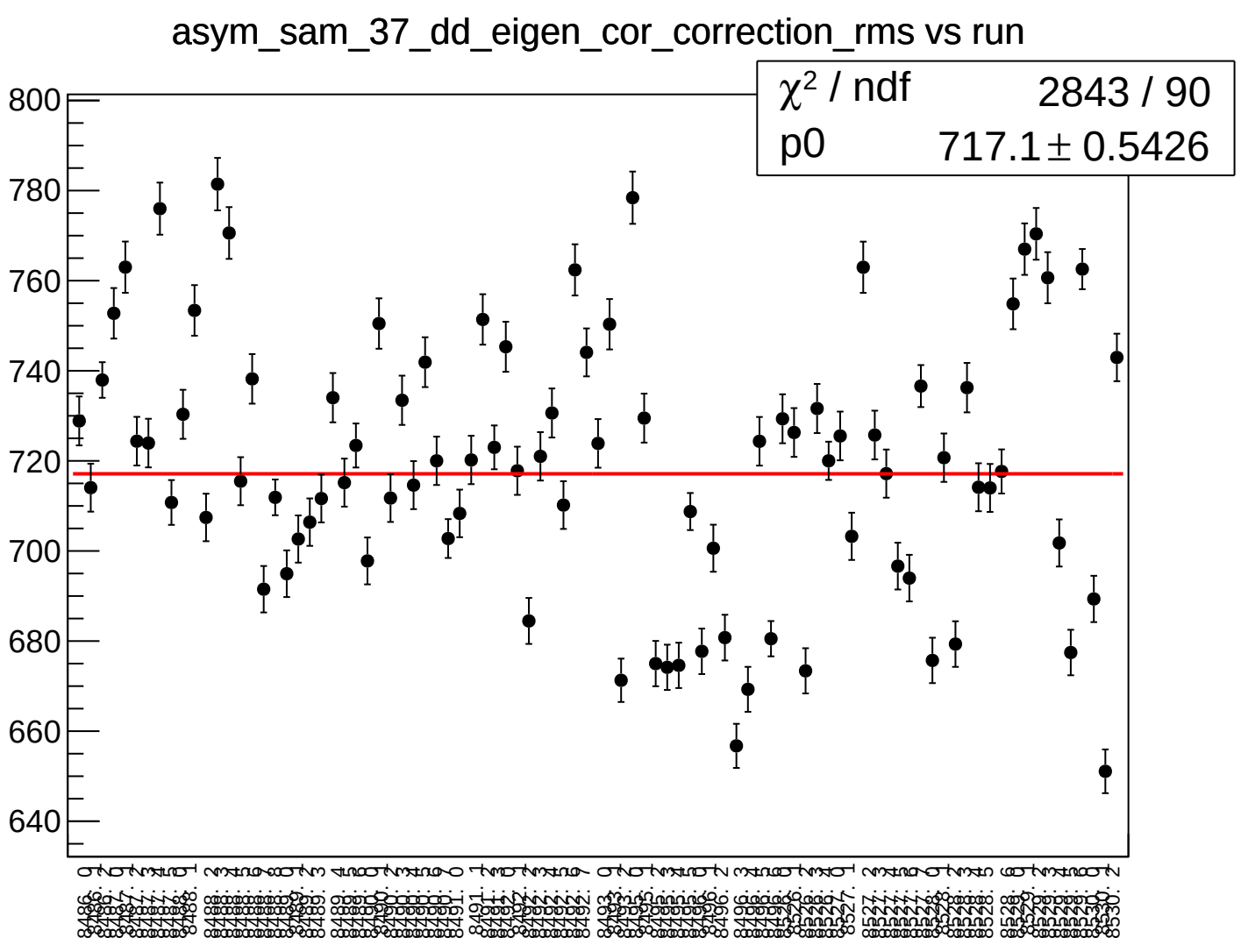
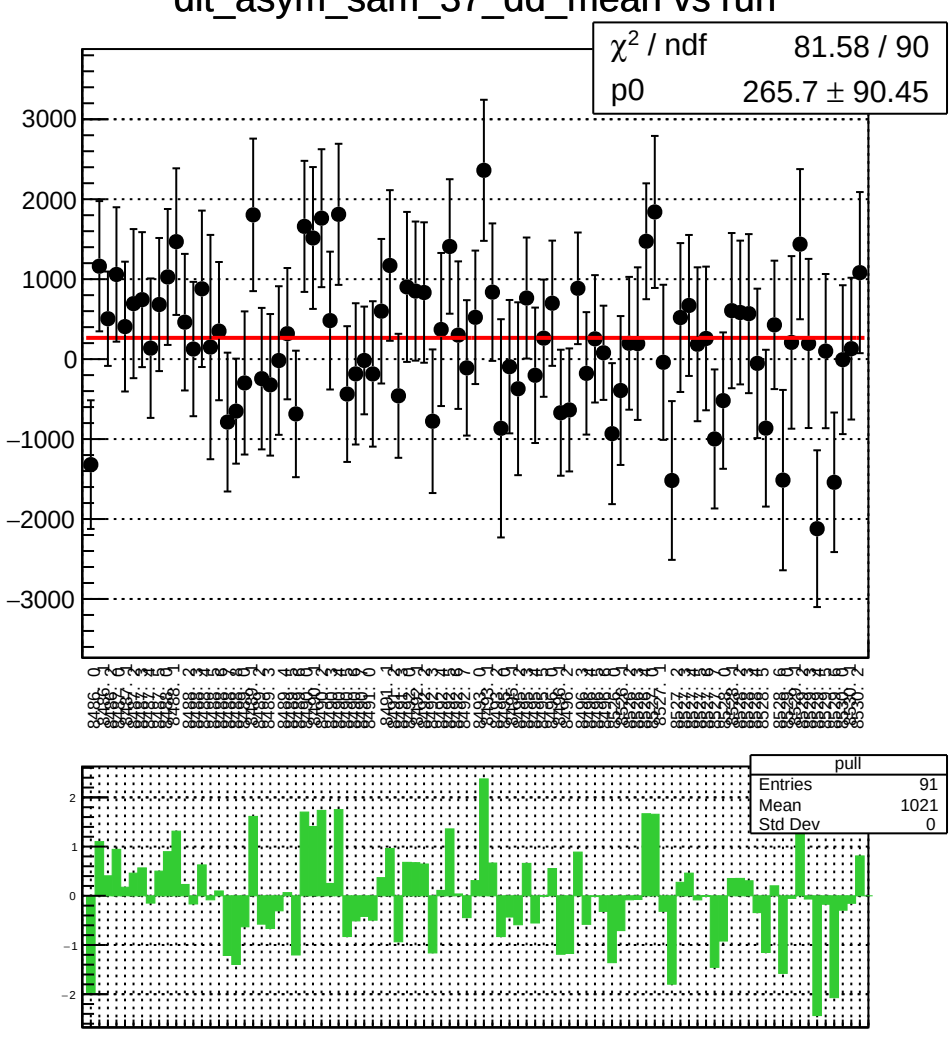
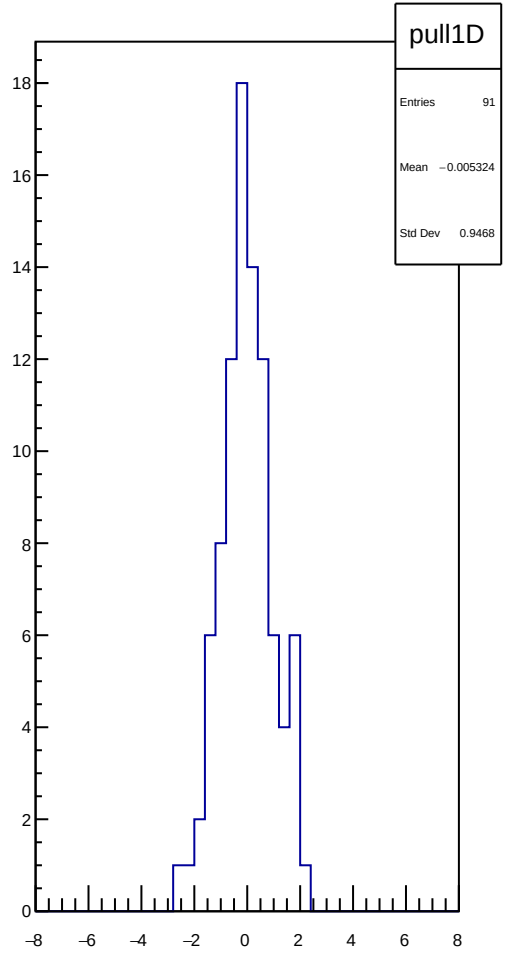
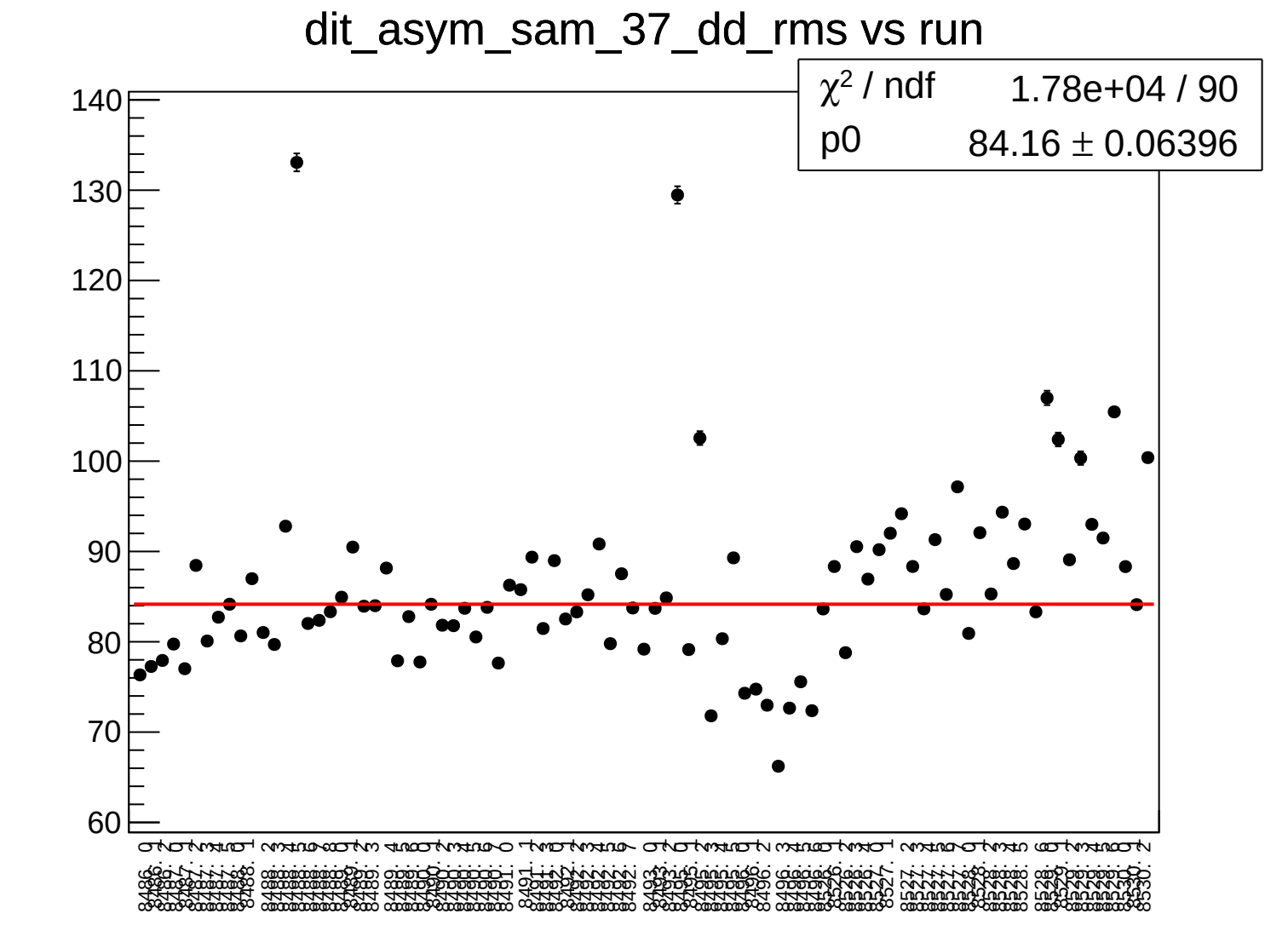
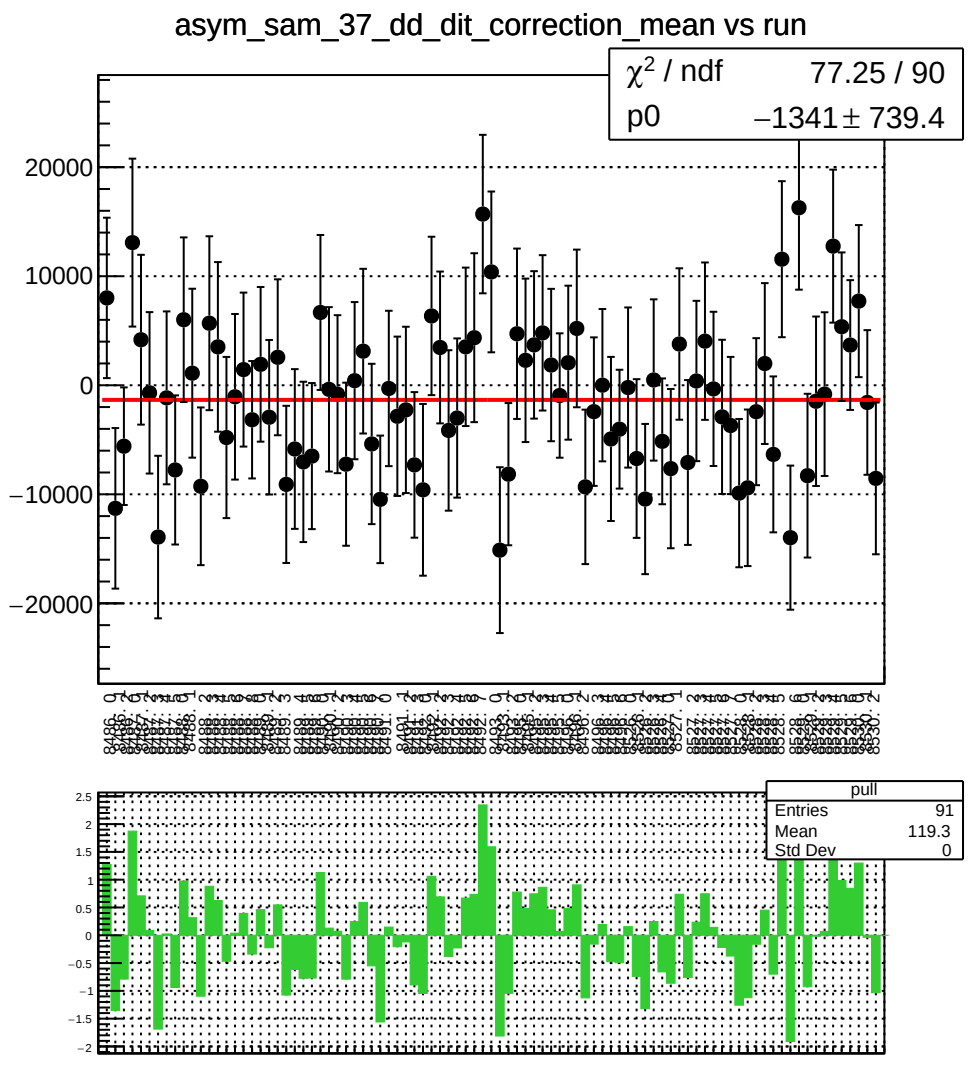
2
4
6
8

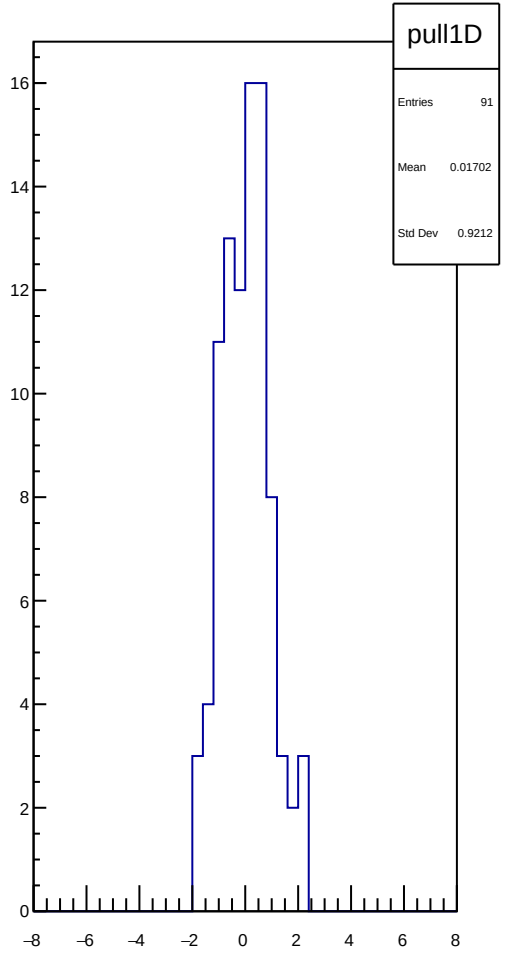

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 2843 / 90
p0 717.1 ± 0.5426
800
780
760
740
720
700
680
660
640

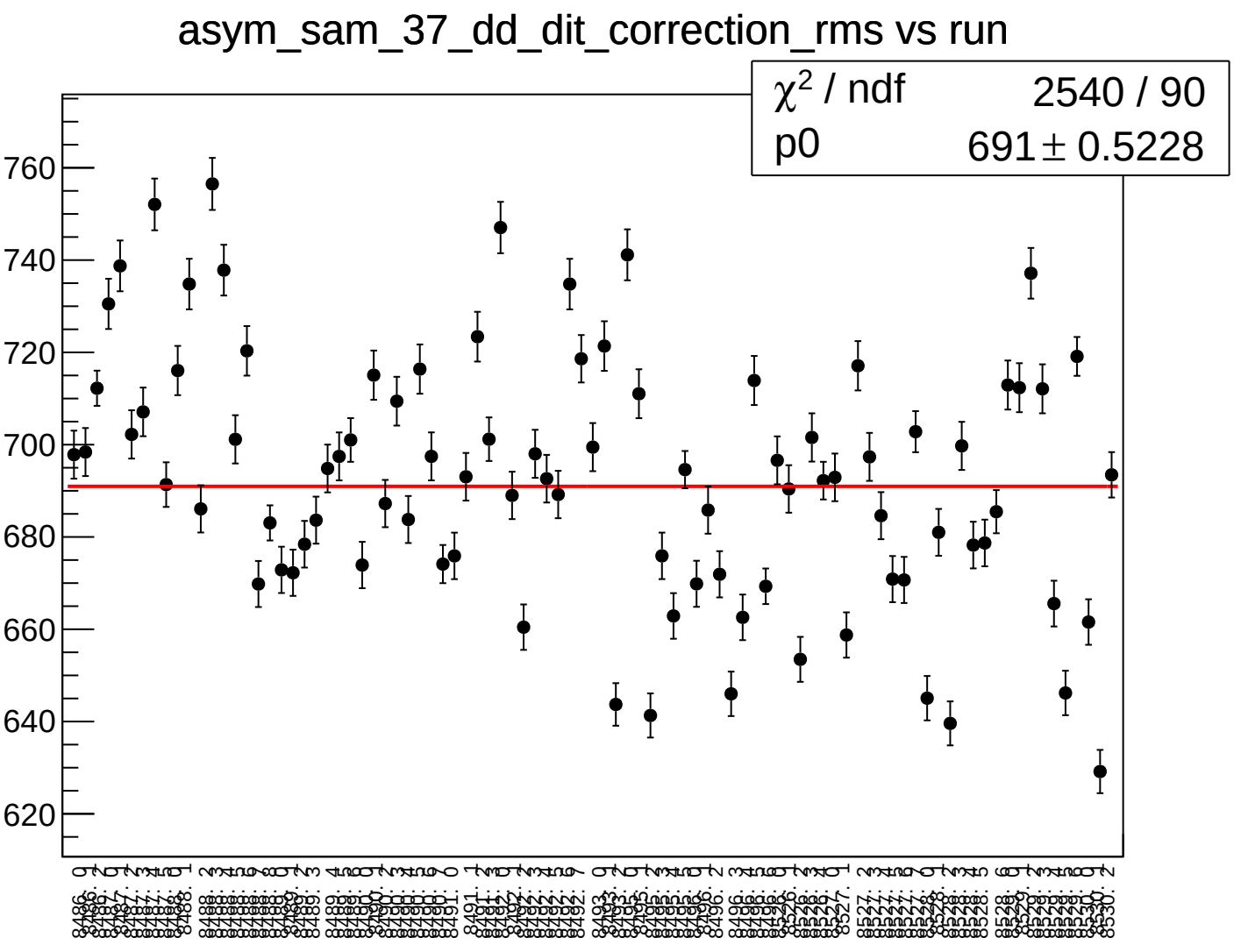

dit_asym_sam_37_dd_mean vs run
χ² / ndf 81.58 / 90
p0 265.7 ± 90.45
pull
Entries 91
Mean 1021
Std Dev 0

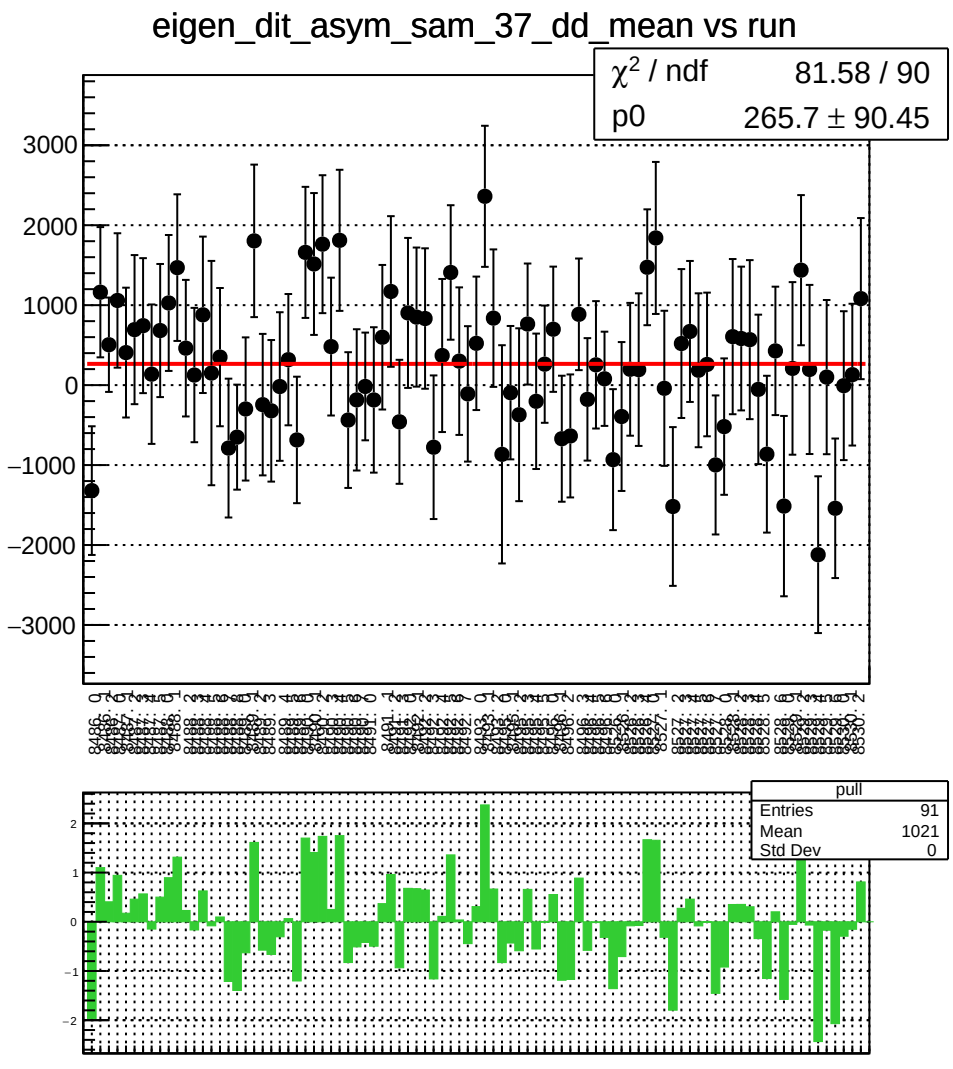

pull1D
Entries 91
Mean −0.005324
Std Dev 0.9468

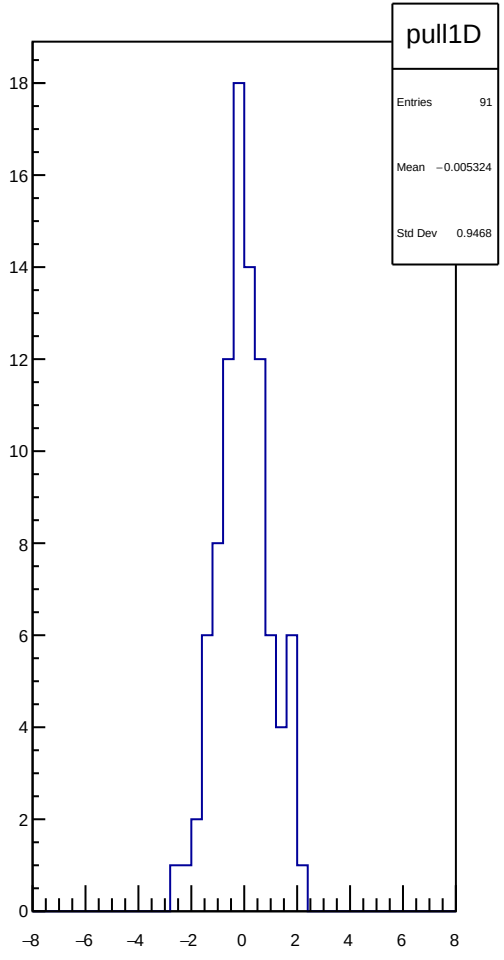

dit_asym_sam_37_dd_rms vs run
χ² / ndf 1.78e+04 / 90
p0 84.16 ± 0.06396
140
130
120
110
100
90
80
70
60

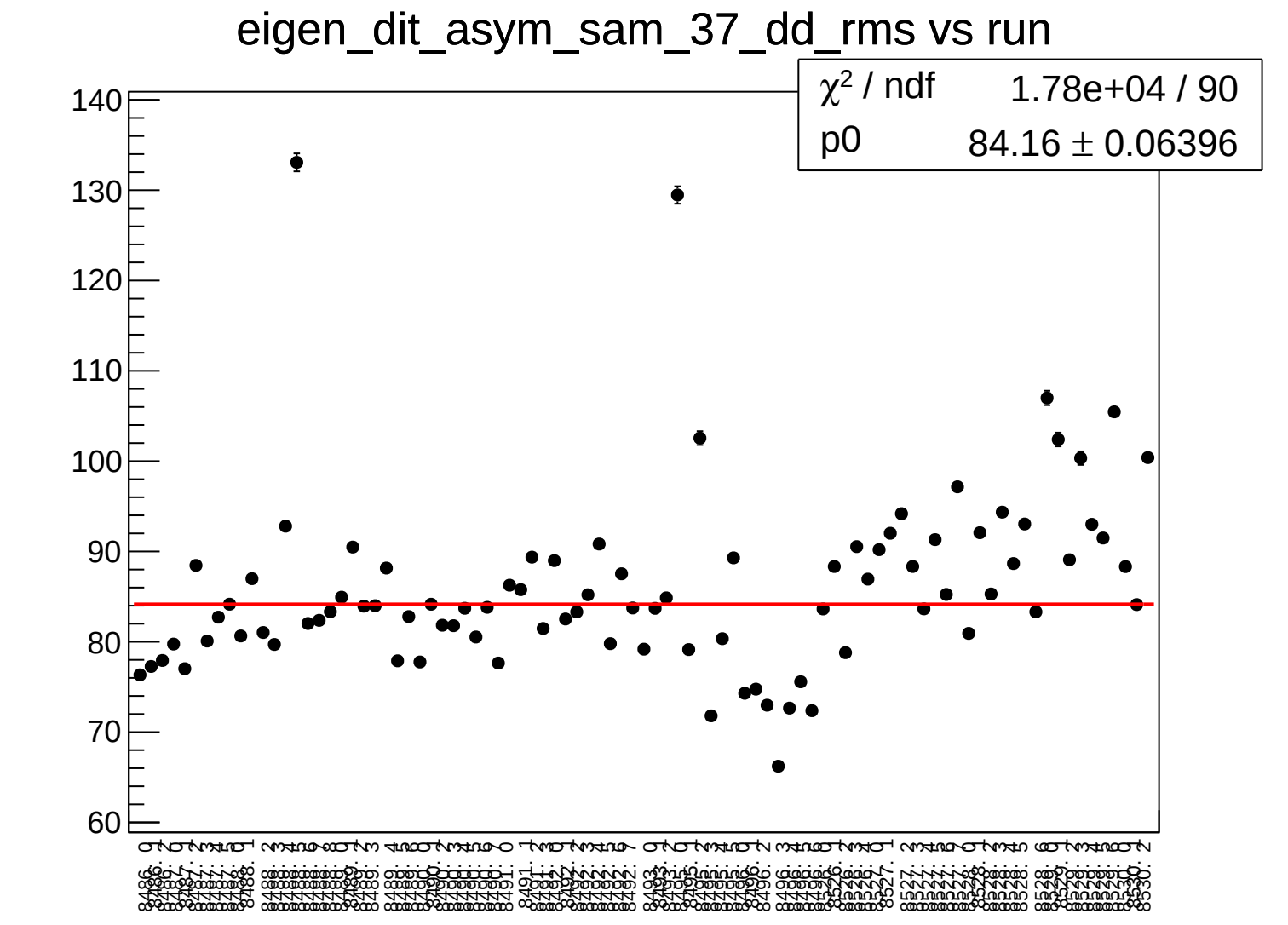

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 77.25 / 90
p0 −1341 ± 739.4
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 119.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

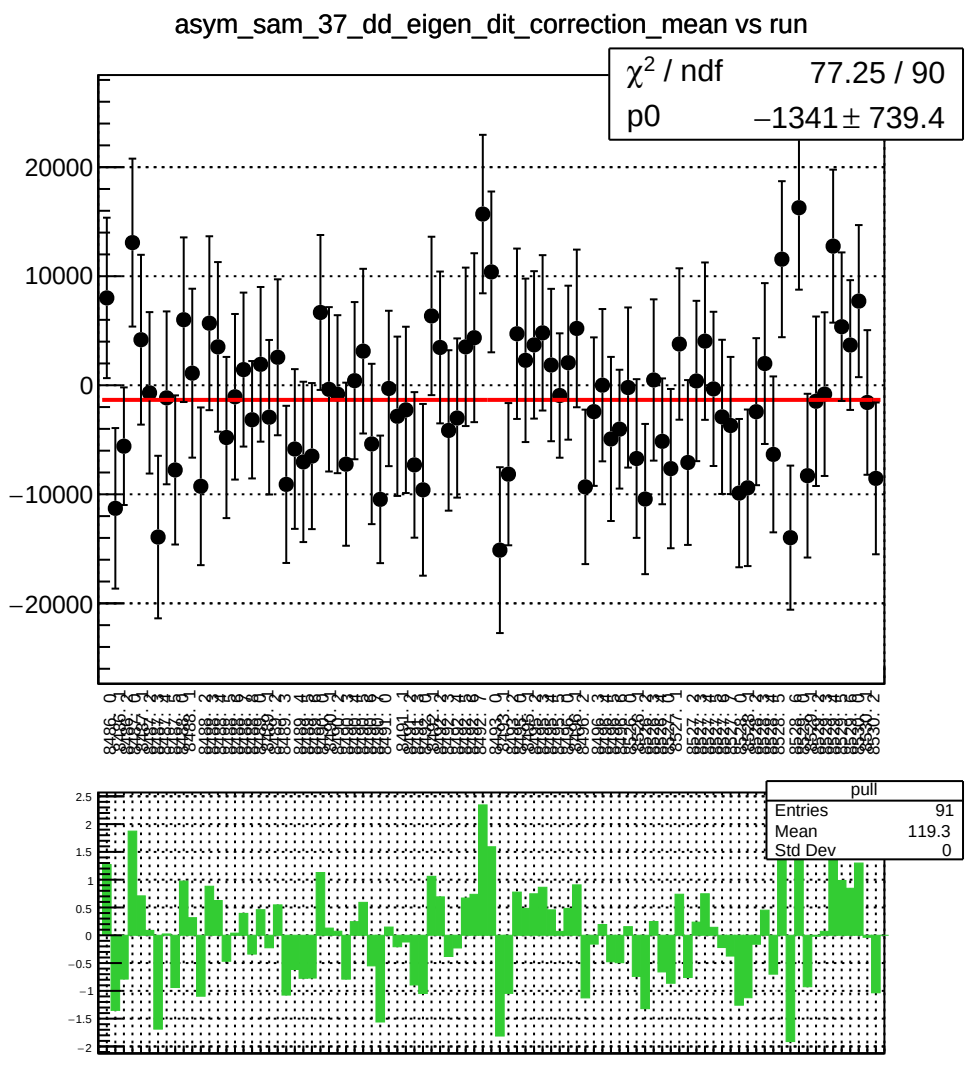

pull1D
Entries 91
Mean 0.01702
Std Dev 0.9212
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

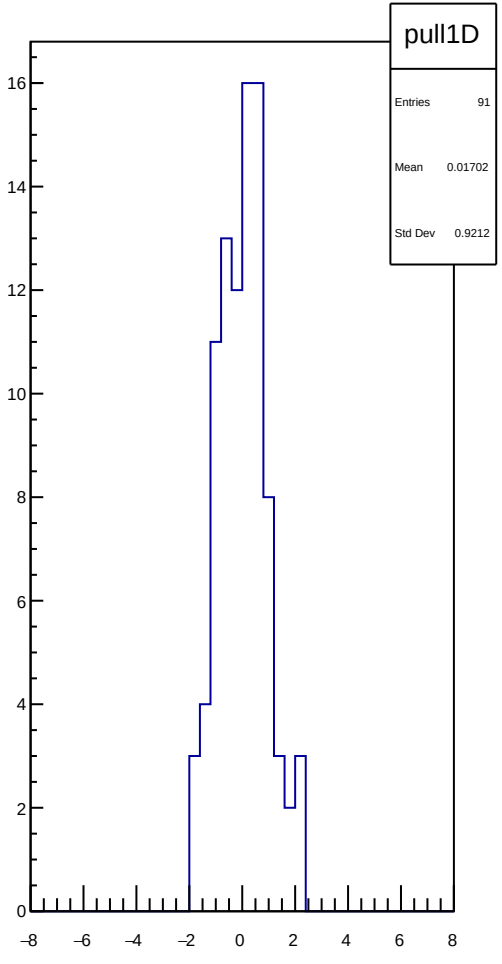

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 2540 / 90
p0 691 ± 0.5228
760
740
720
700
680
660
640
620

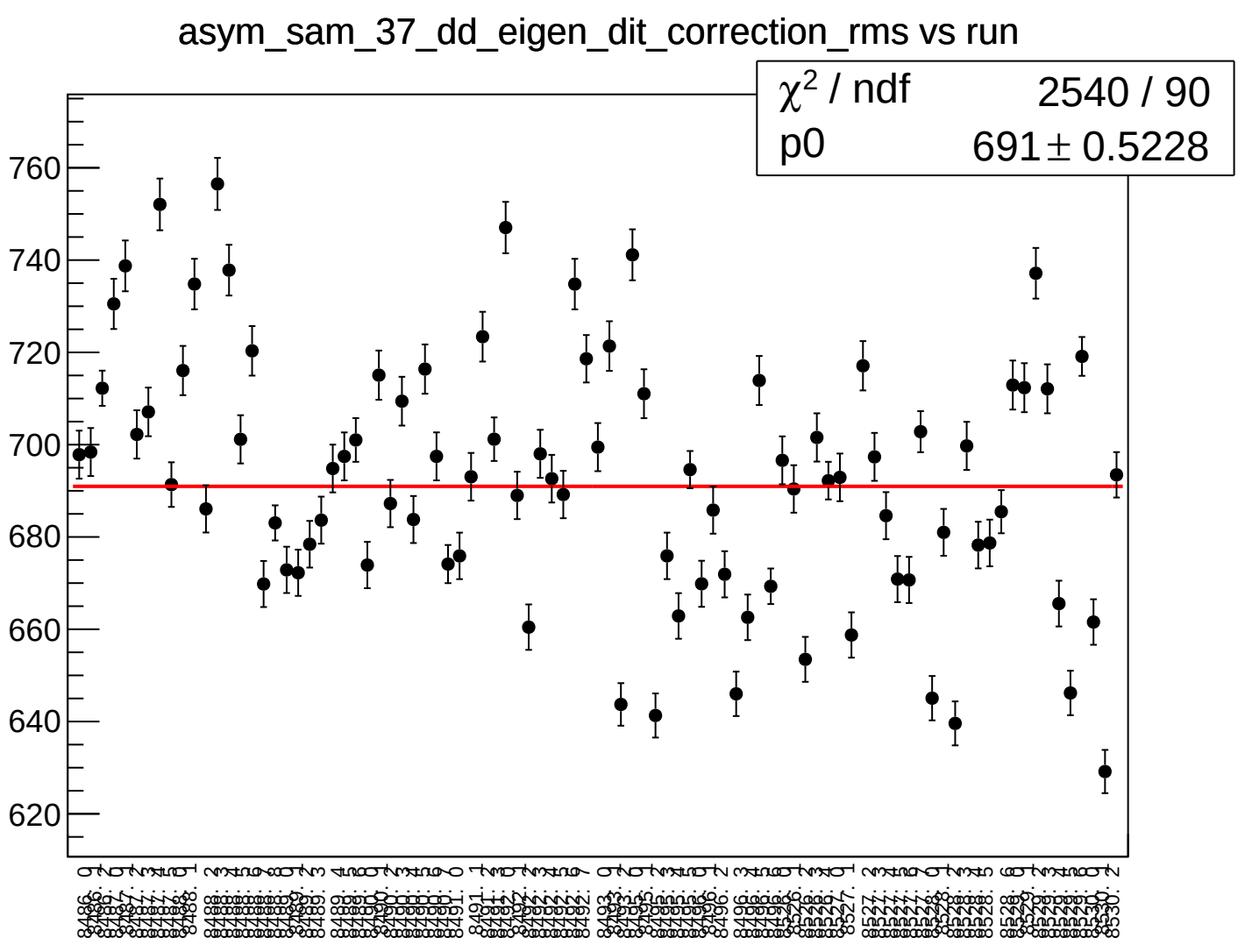

eigen_dit_asym_sam_37_dd_mean vs run
χ² / ndf 81.58 / 90
p0 265.7 ± 90.45
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 91
Mean 1021
Std Dev 0
2
1
0
−1
−2

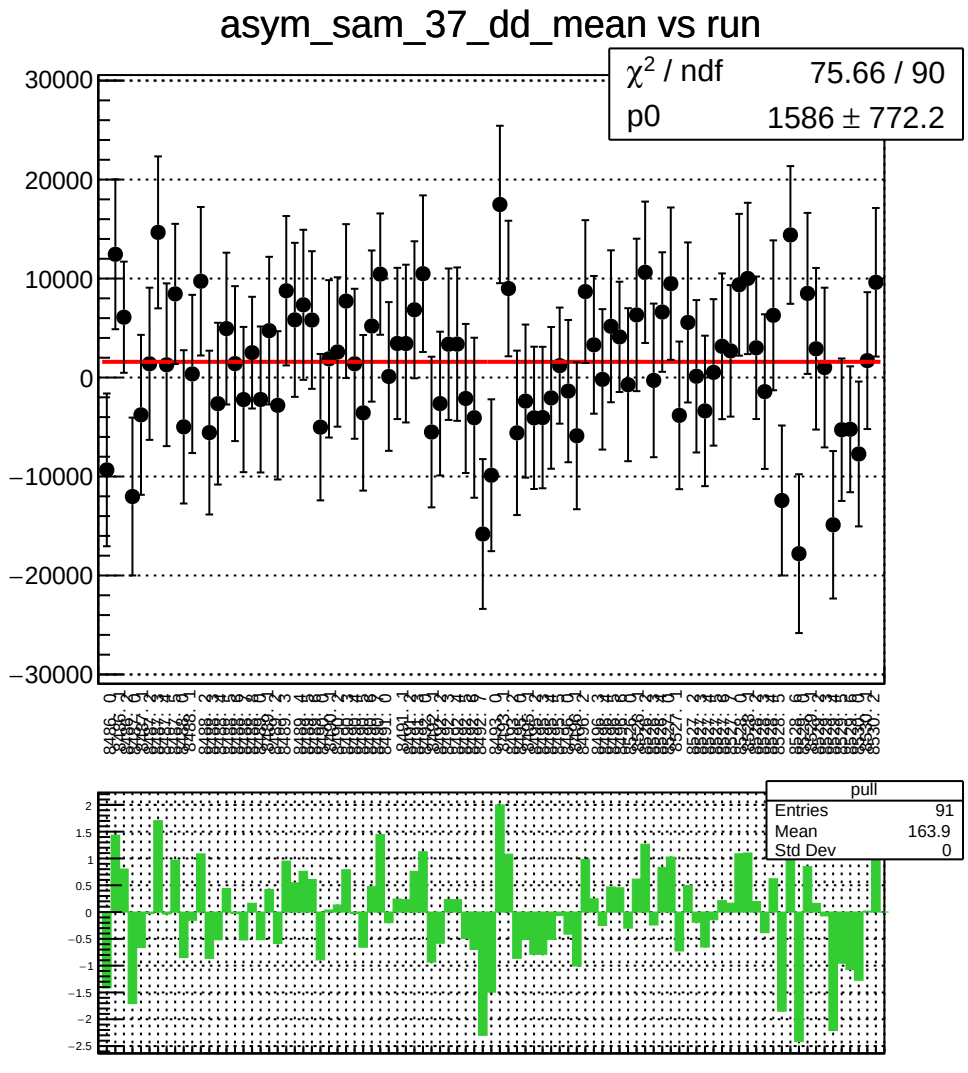

pull1D
Entries 91
Mean −0.005324
Std Dev 0.9468
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

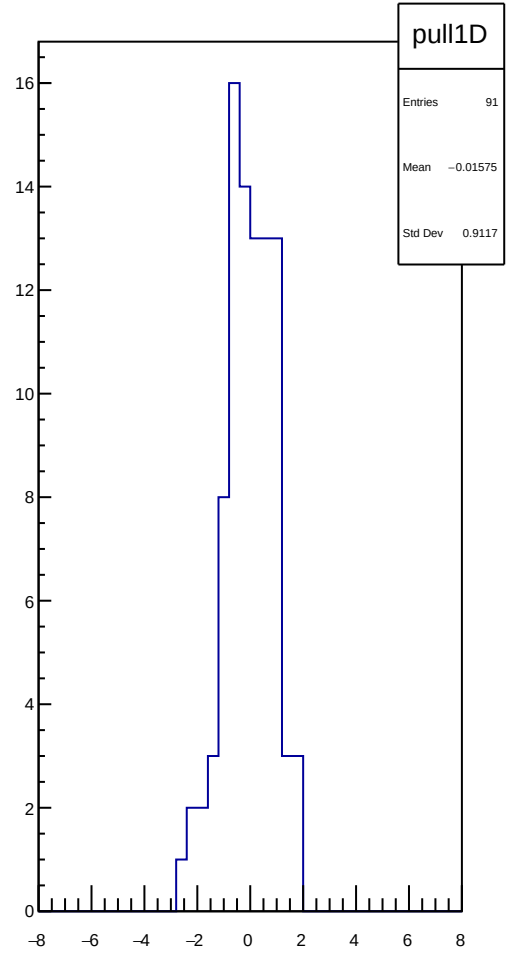

eigen_dit_asym_sam_37_dd_rms vs run
χ² / ndf 1.78e+04 / 90
p0 84.16 ± 0.06396
140
130
120
110
100
90
80
70
60

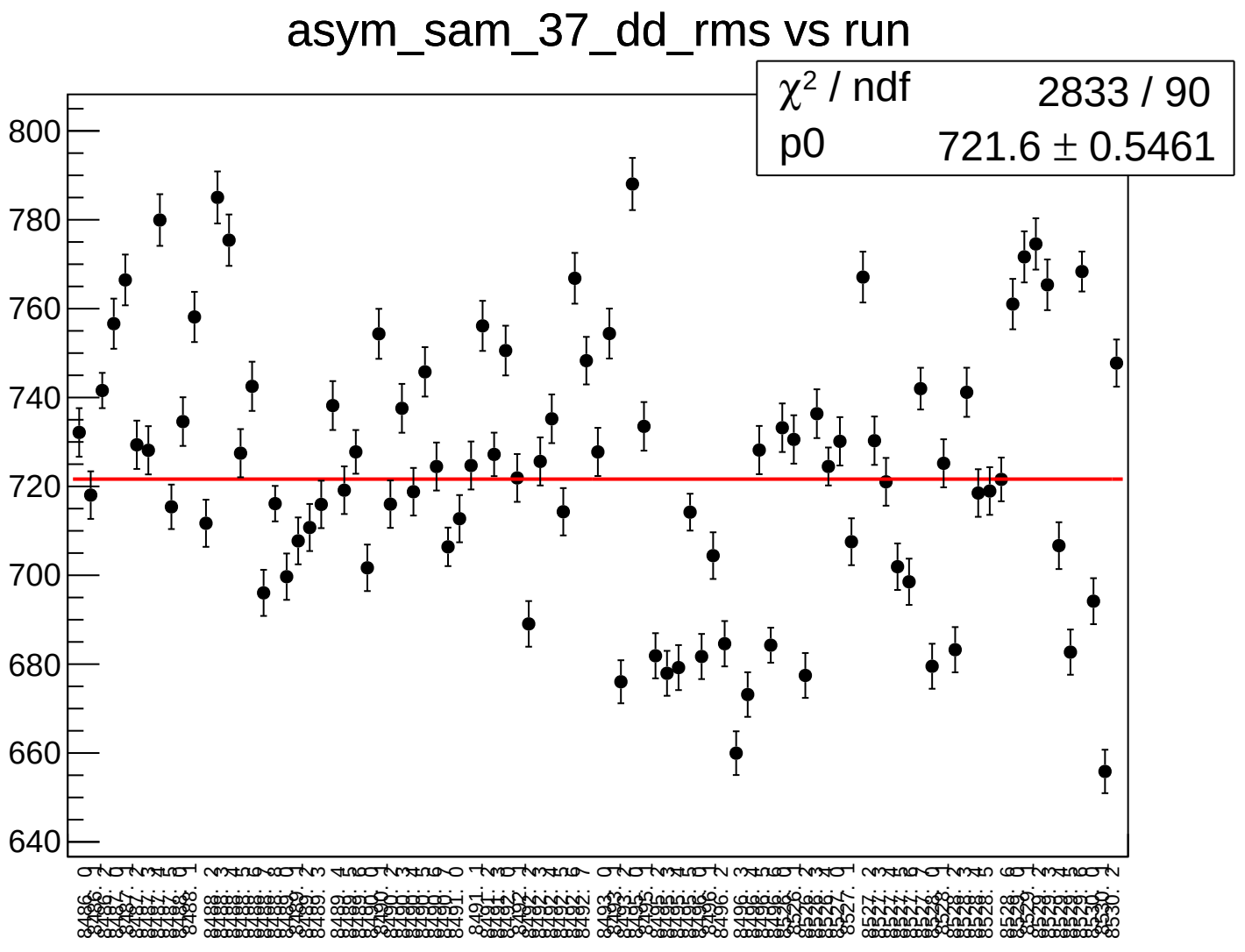

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 77.25 / 90
p0 −1341 ± 739.4
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 119.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

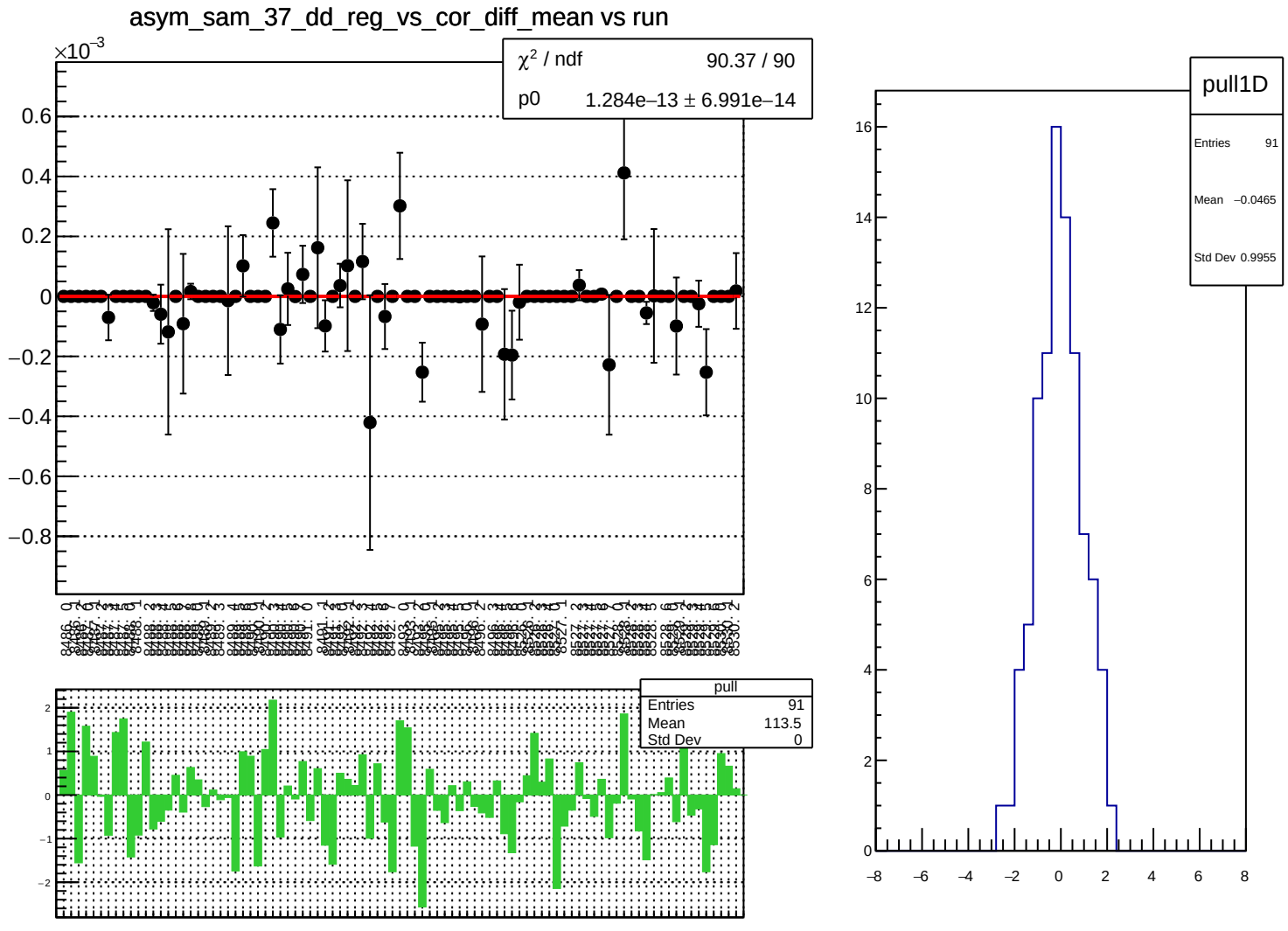

pull1D
Entries 91
Mean 0.01702
Std Dev 0.9212
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

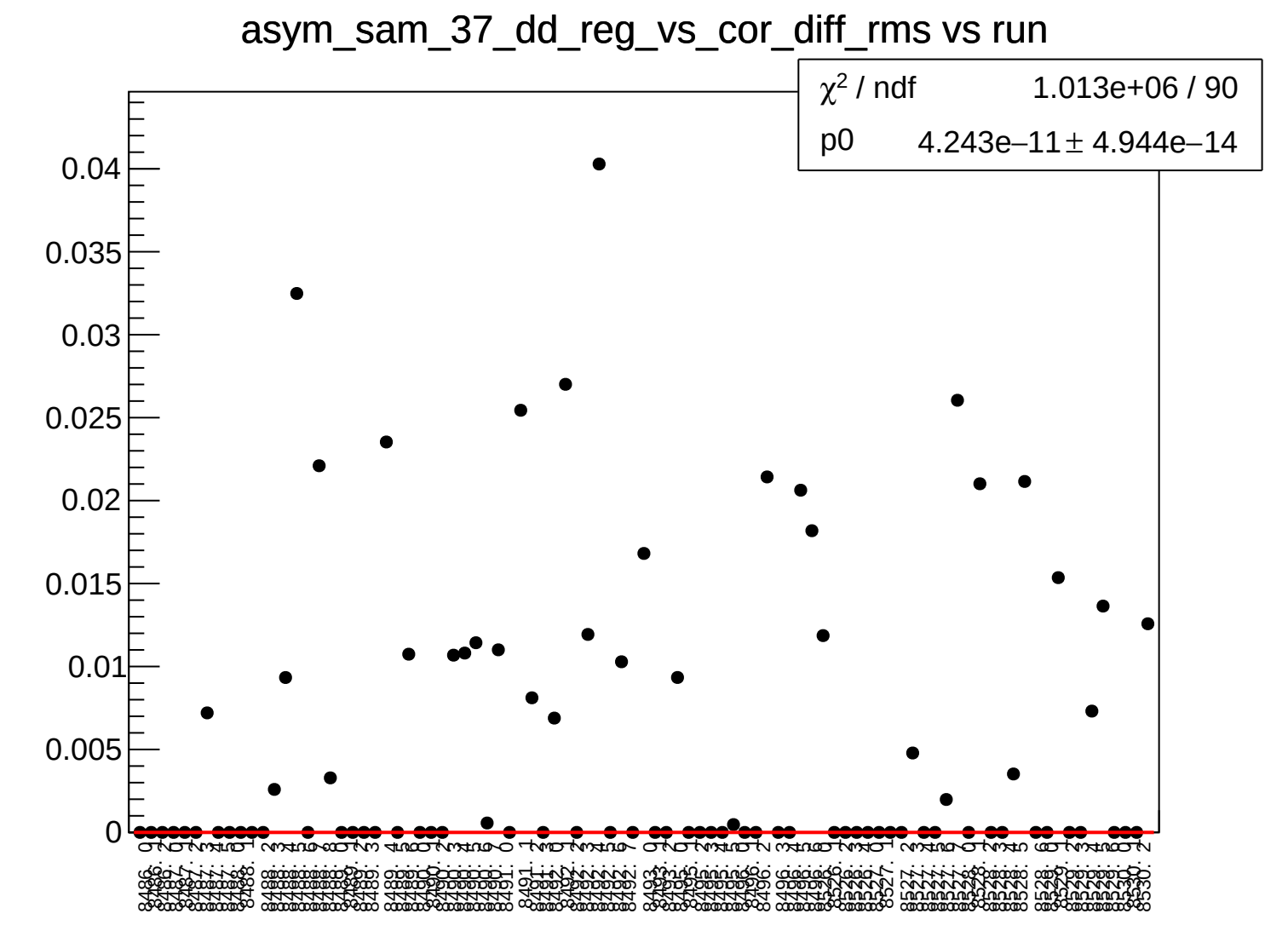

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 2540 / 90
p0 691 ± 0.5228
760
740
720
700
680
660
640
620

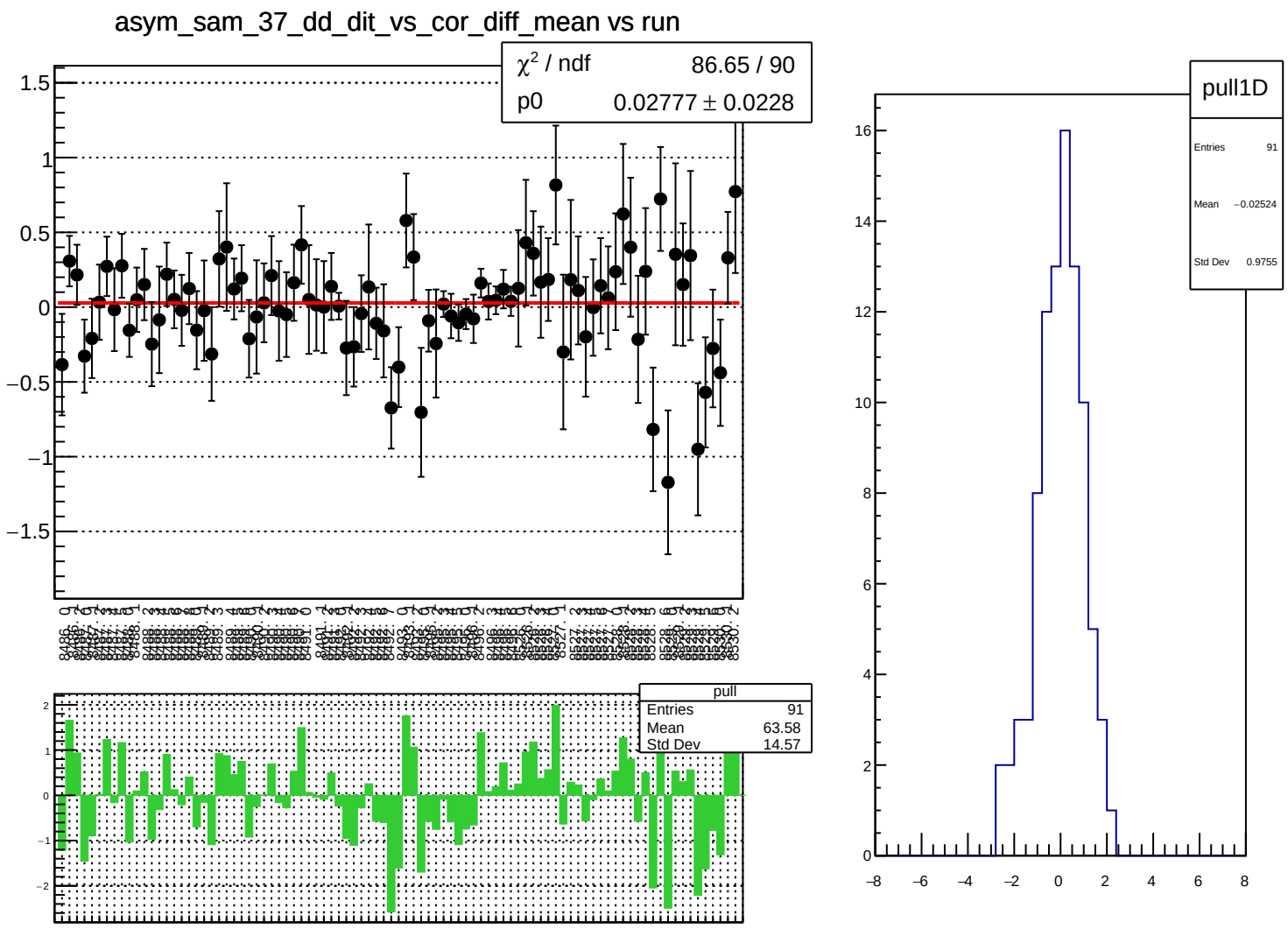

asym_sam_37_dd_mean vs run
χ² / ndf 75.66 / 90
p0 1586 ± 772.2
pull
Entries 91
Mean 163.9
Std Dev 0

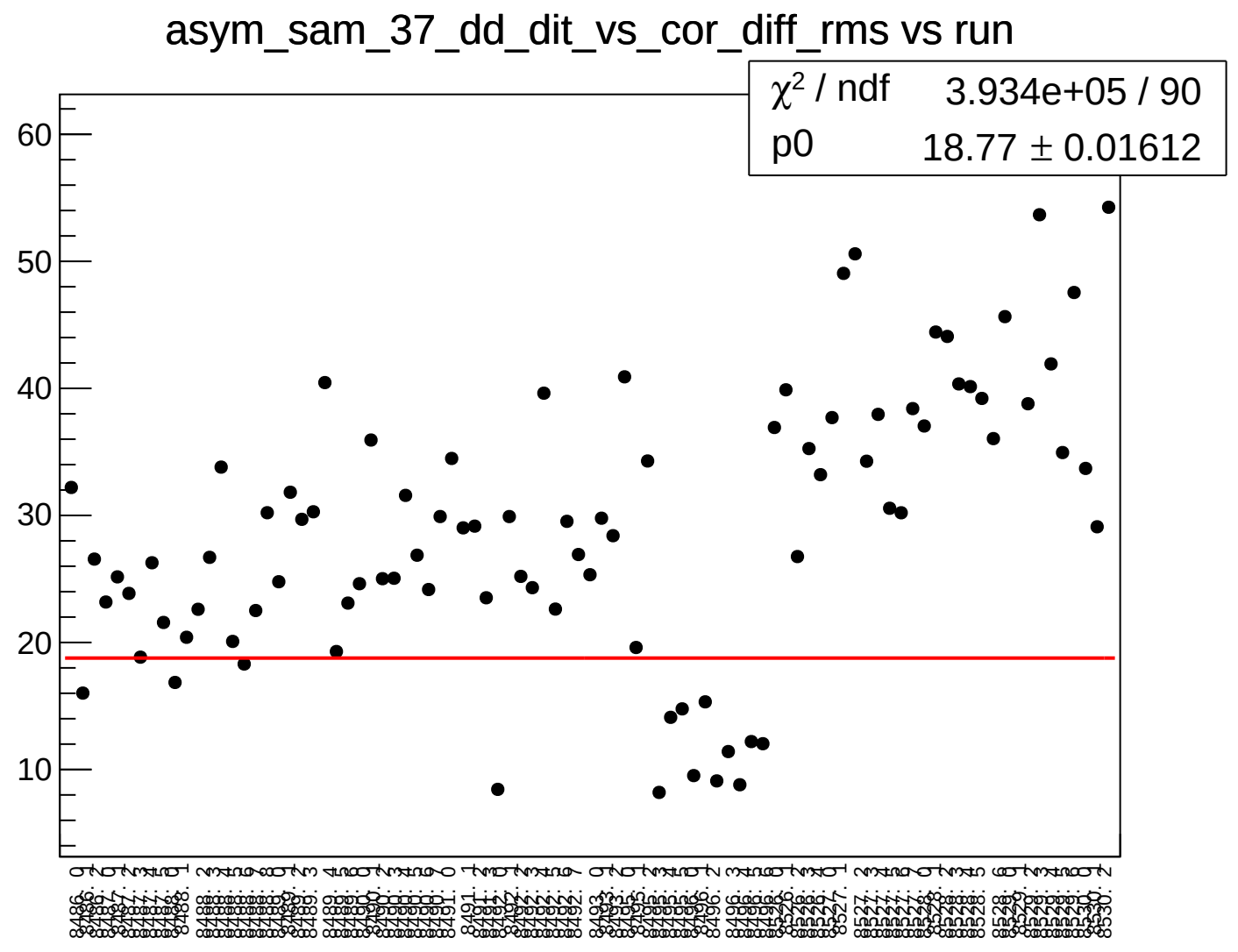

pull1D
Entries 91
Mean −0.01575
Std Dev 0.9117

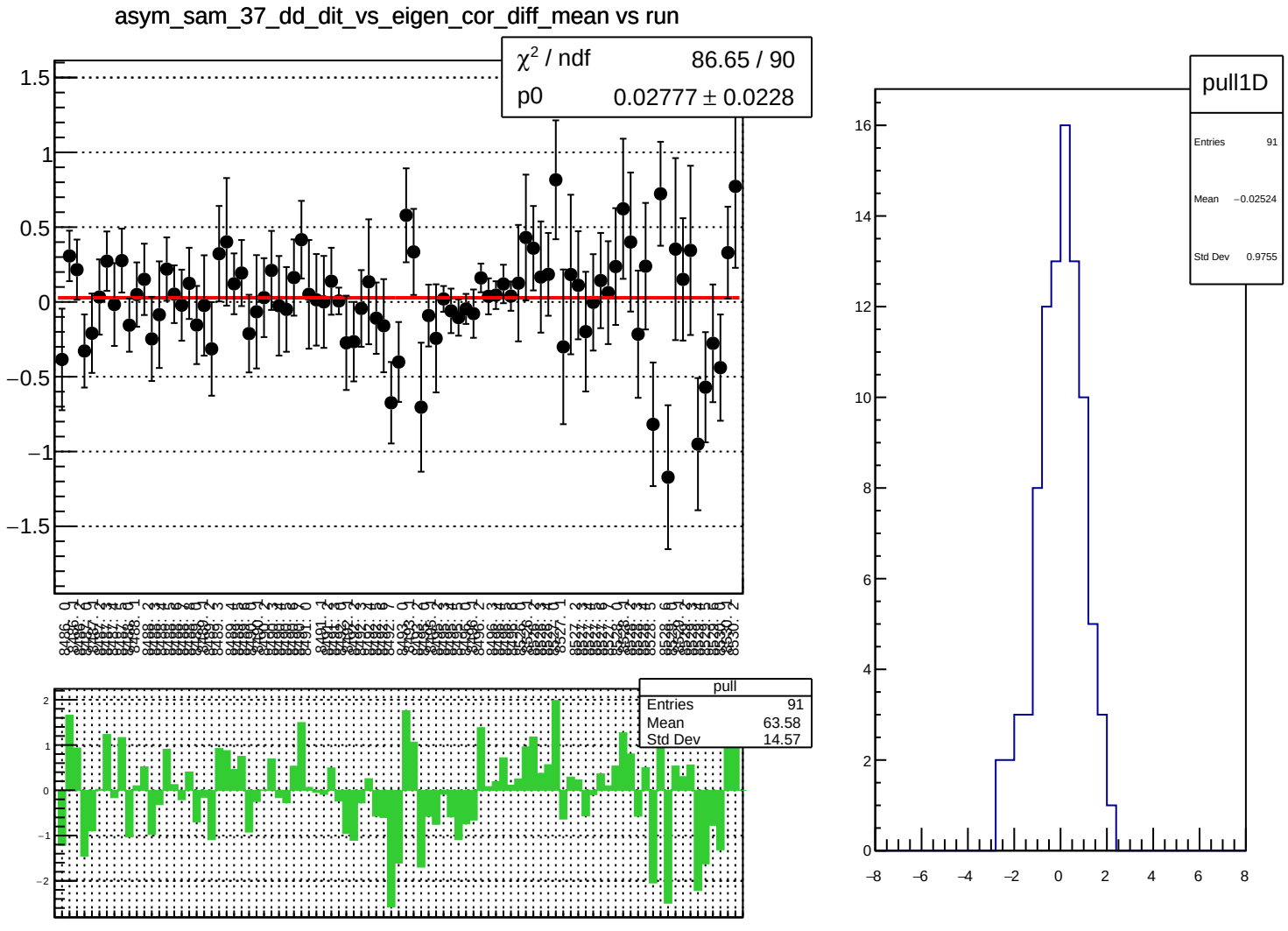

asym_sam_37_dd_rms vs run
χ² / ndf 2833 / 90
p0 721.6 ± 0.5461
800
780
760
740
720
700
680
660
640

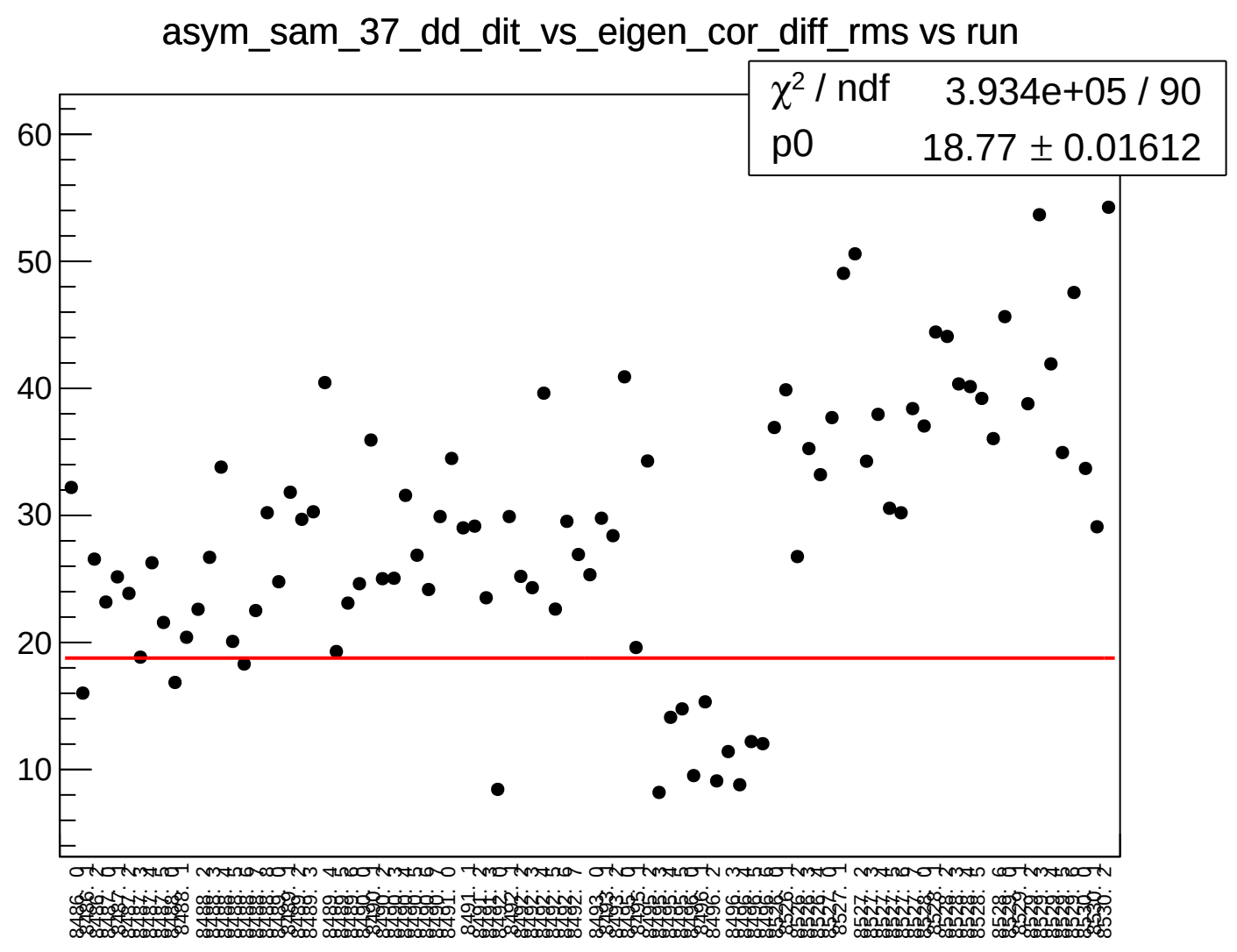

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 90.37 / 90
p0 1.284e−13 ± 6.991e−14
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull
Entries 91
Mean 113.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.0465
Std Dev 0.9955
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

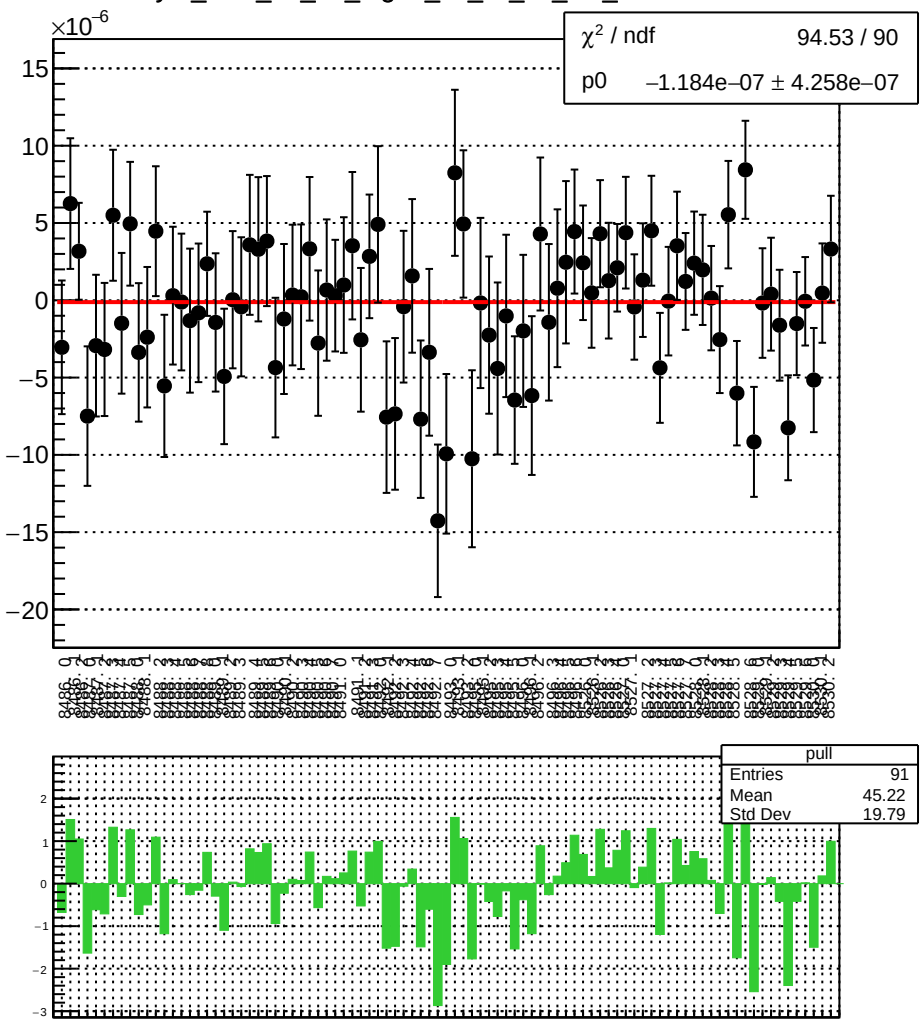

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.013e+06 / 90
p0 4.243e−11 ± 4.944e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

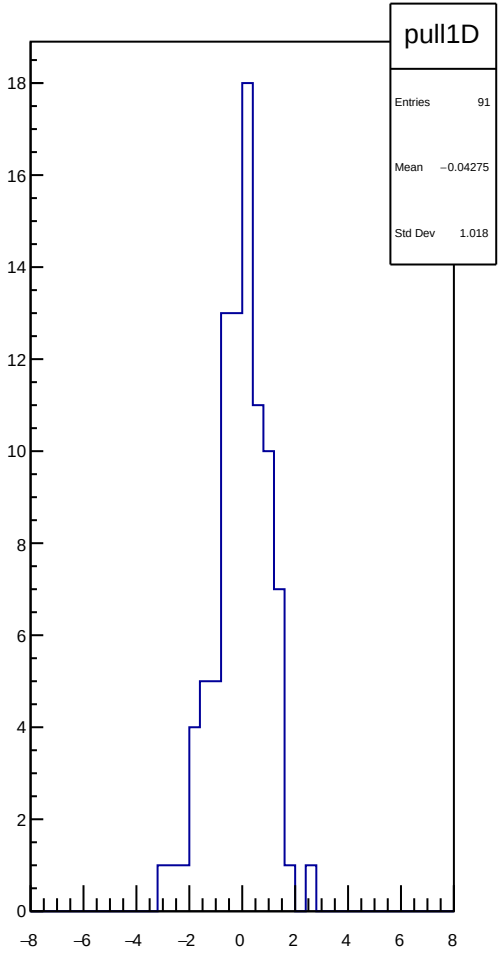

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.65 / 90
p0 0.02777 ± 0.0228
pull
Entries 91
Mean 63.58
Std Dev 14.57
pull1D
Entries 91
Mean −0.02524
Std Dev 0.9755

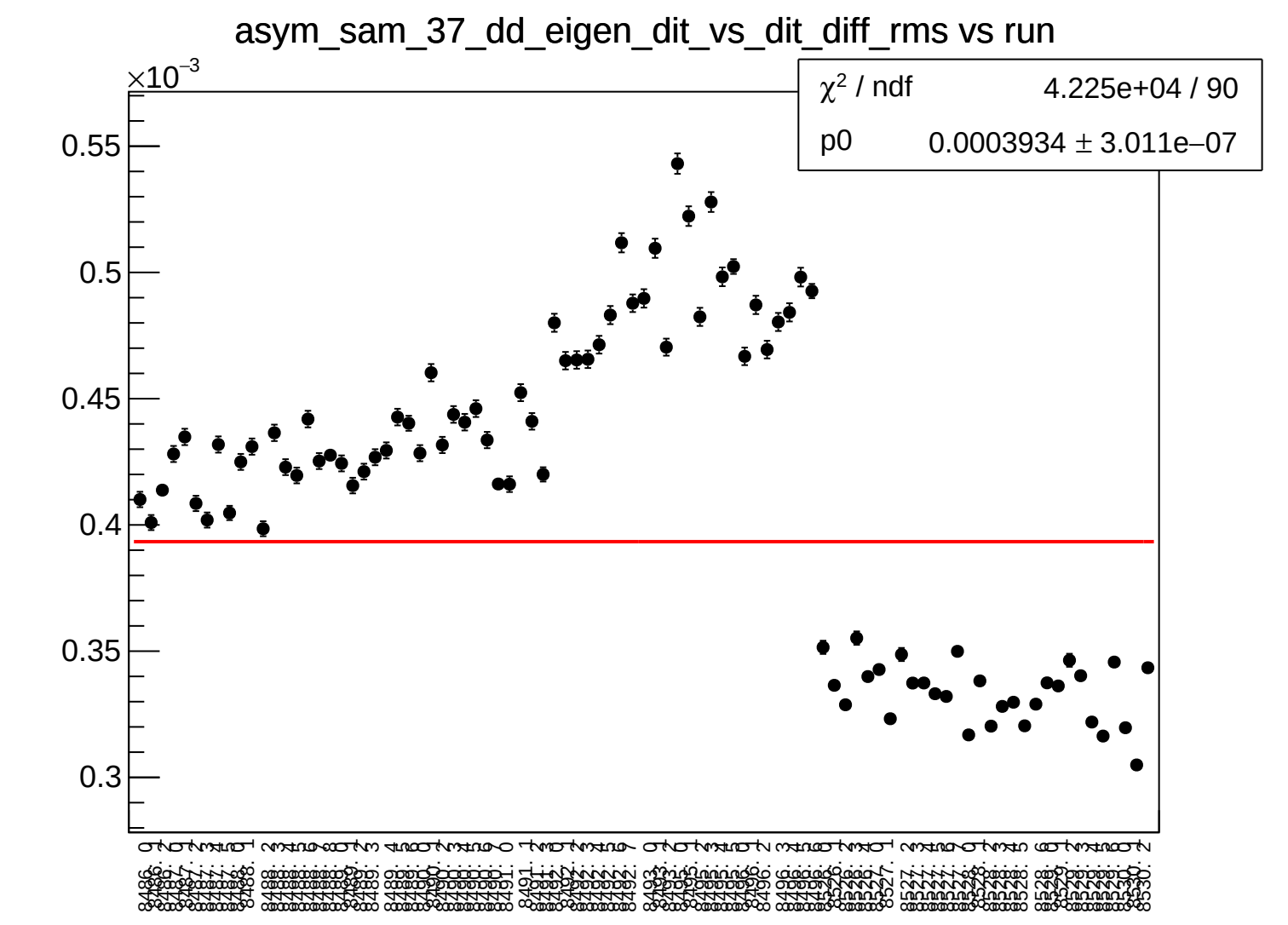

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.934e+05 / 90
p0 18.77 ± 0.01612
60
50
40
30
20
10

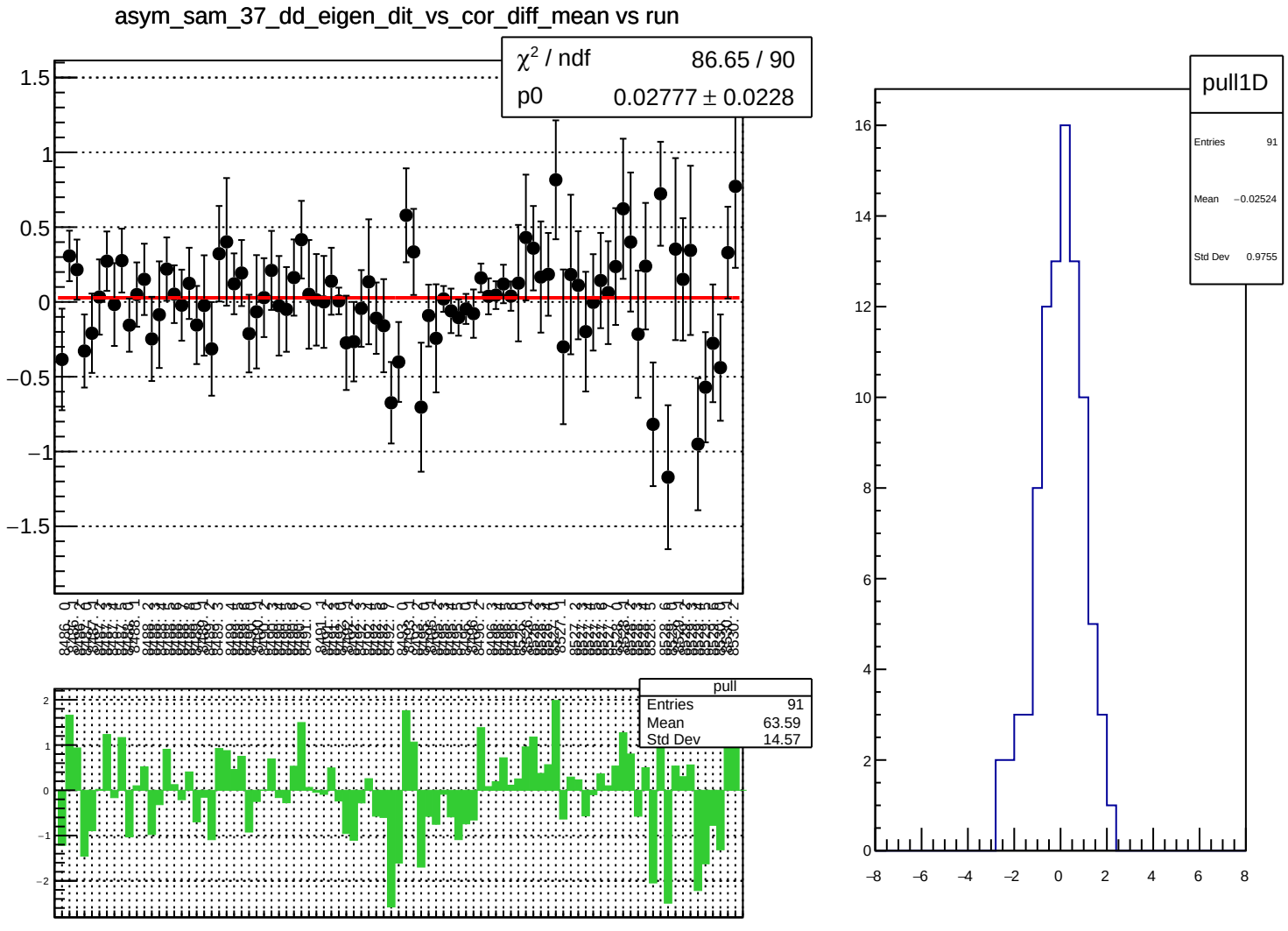

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.65 / 90
p0 0.02777 ± 0.0228
pull
Entries 91
Mean 63.58
Std Dev 14.57
pull1D
Entries 91
Mean −0.02524
Std Dev 0.9755

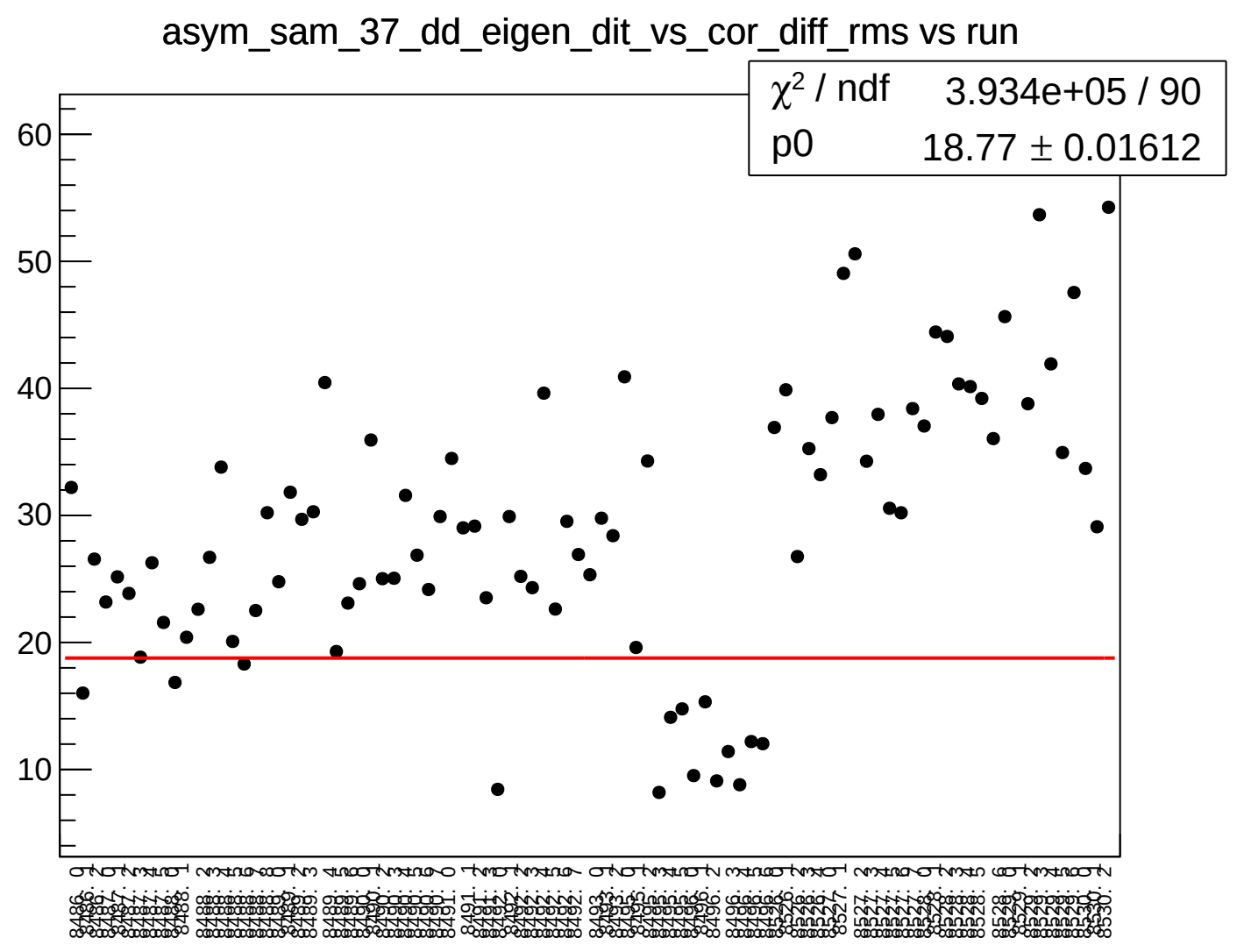

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.934e+05 / 90
p0 18.77 ± 0.01612
60
50
40
30
20
10

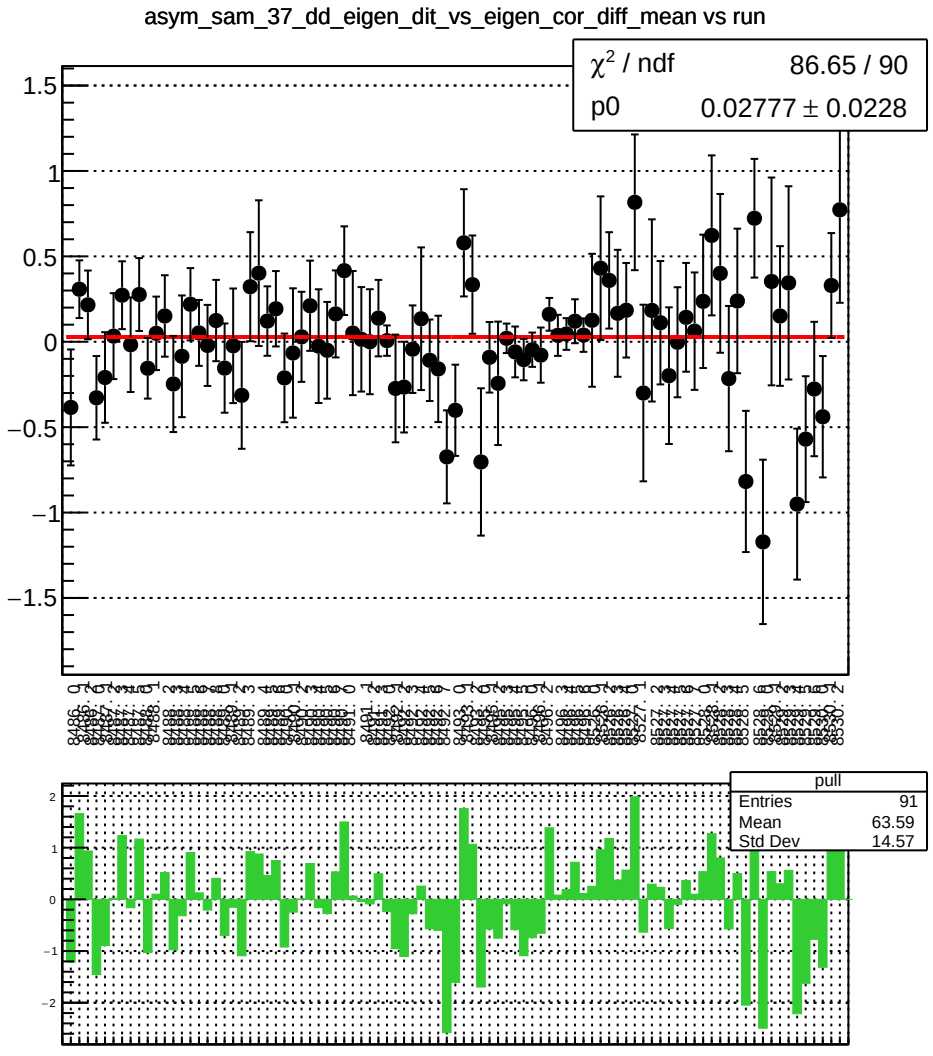

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 94.53 / 90
p0 −1.184e−07 ± 4.258e−07
pull
Entries 91
Mean 45.22
Std Dev 19.79

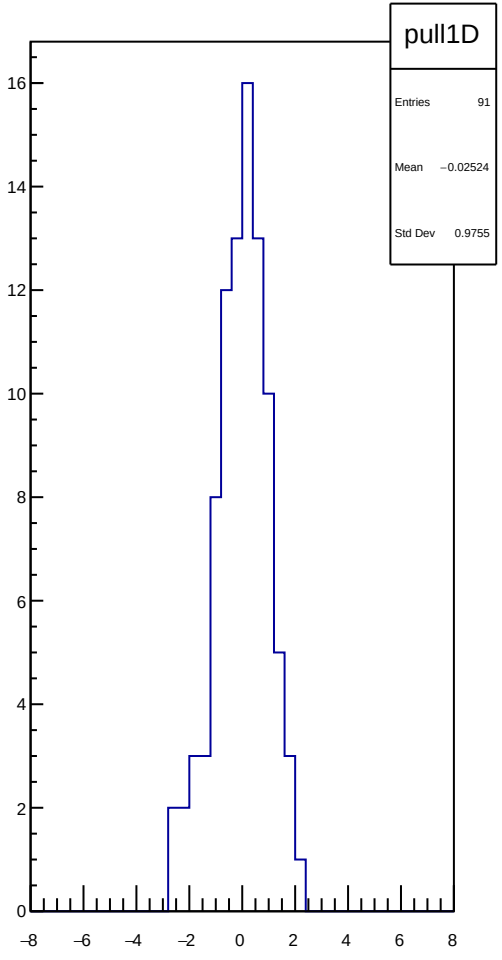

pull1D
Entries 91
Mean −0.04275
Std Dev 1.018

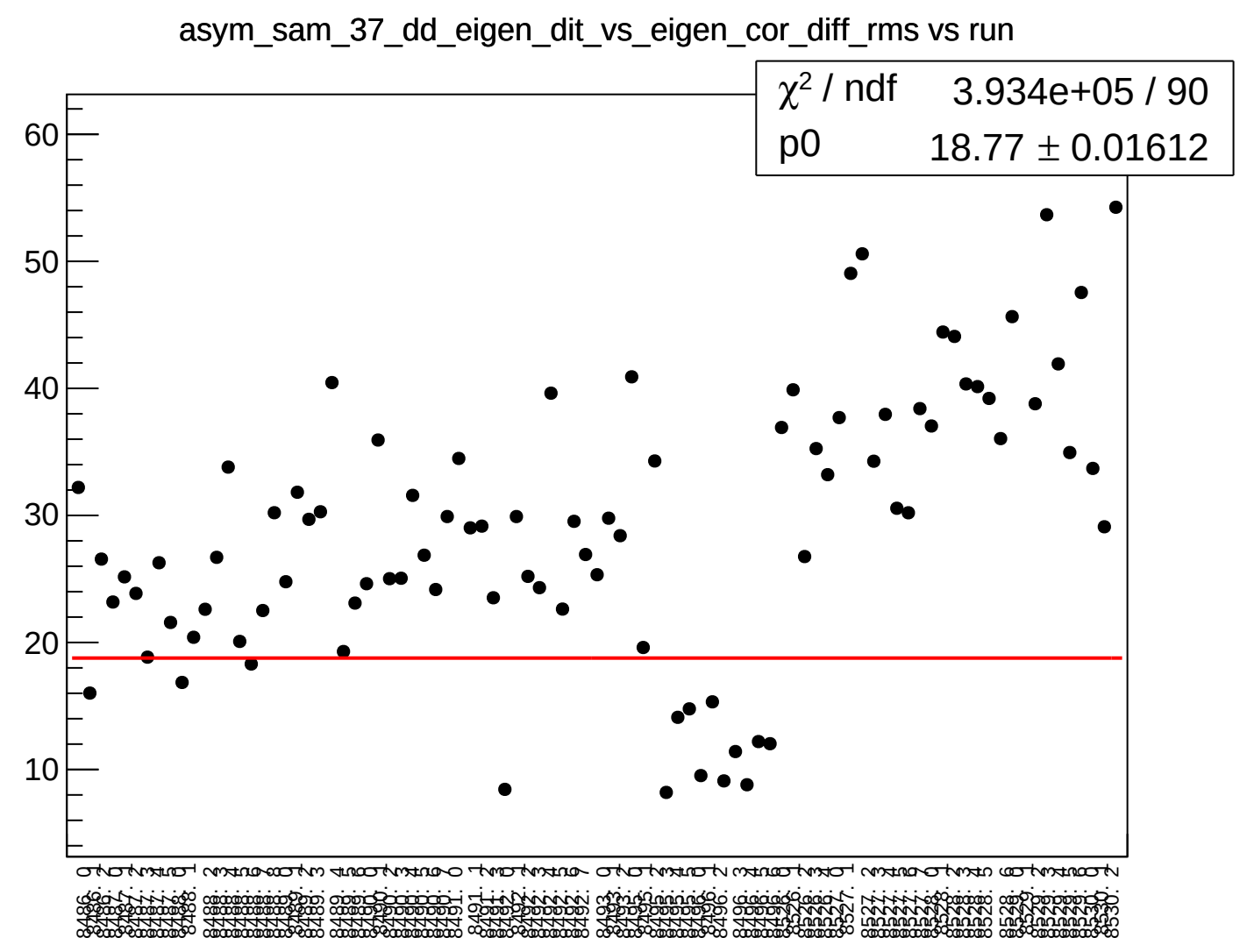

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 4.225e+04 / 90
p0 0.0003934 ± 3.011e−07
0.55
0.5
0.45
0.4
0.35
0.3

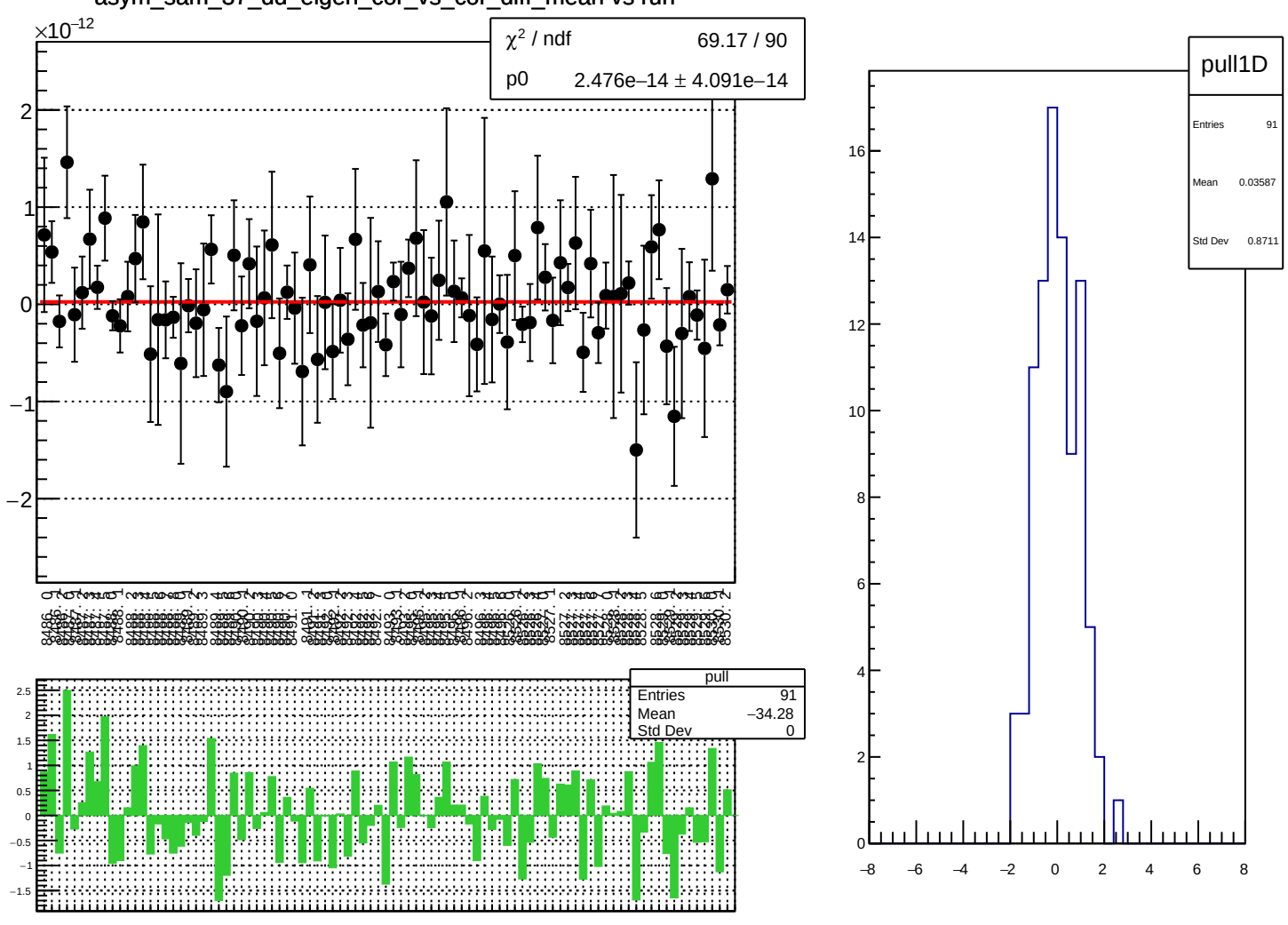

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.65 / 90
p0 0.02777 ± 0.0228
pull
Entries 91
Mean 63.59
Std Dev 14.57
pull1D
Entries 91
Mean −0.02524
Std Dev 0.9755

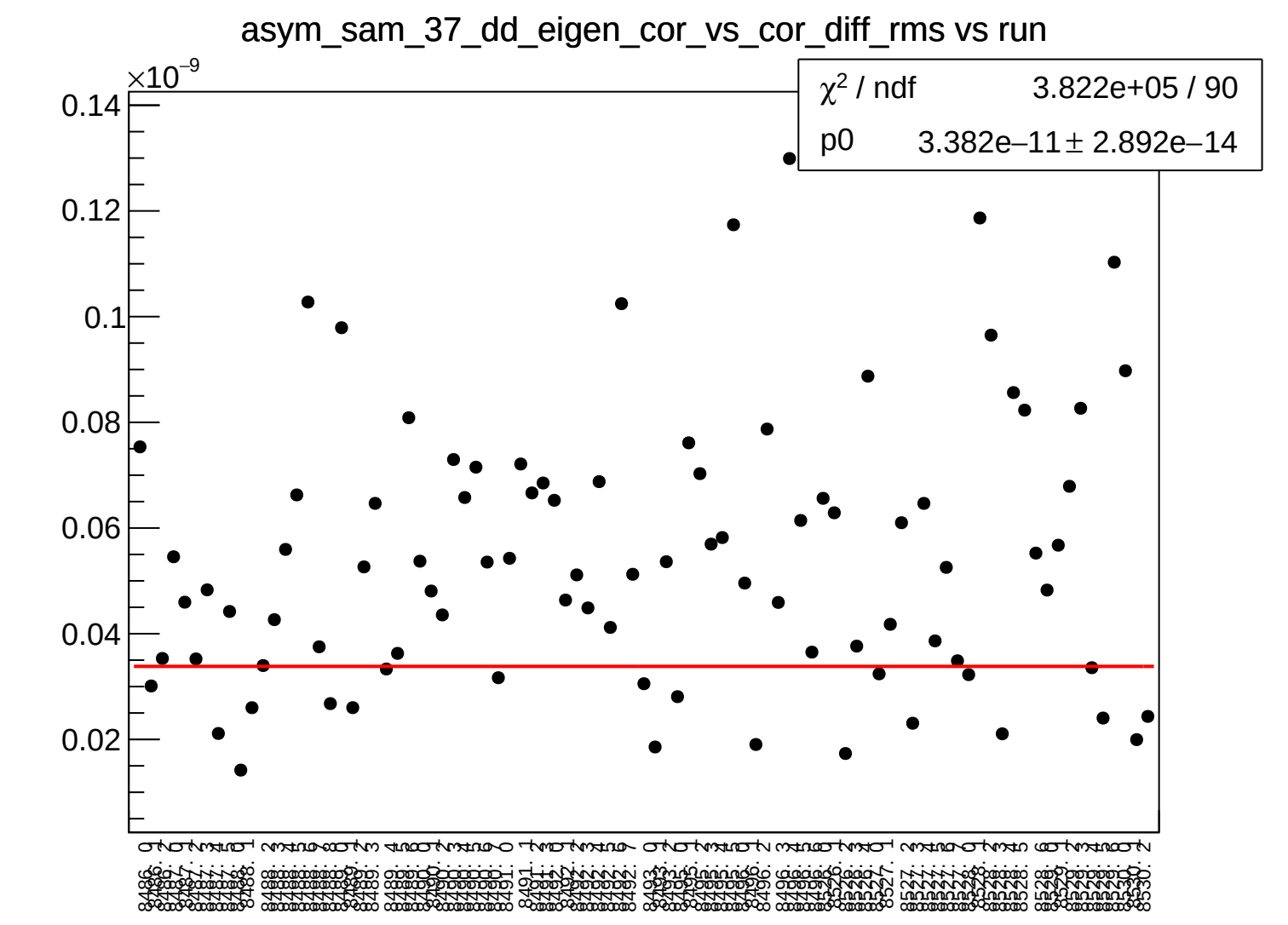

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.934e+05 / 90
p0 18.77 ± 0.01612
60
50
40
30
20
10

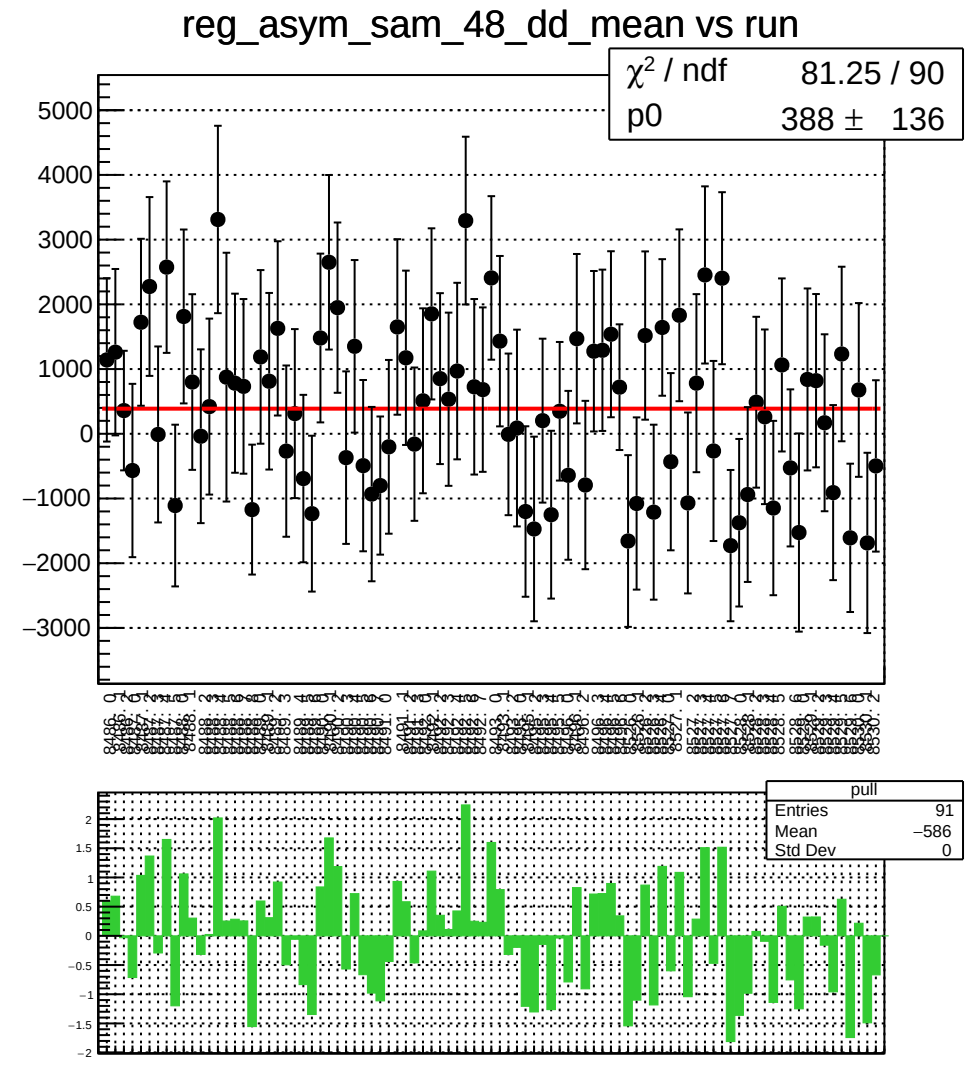

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.65 / 90
p0 0.02777 ± 0.0228
pull
Entries 91
Mean 63.59
Std Dev 14.57

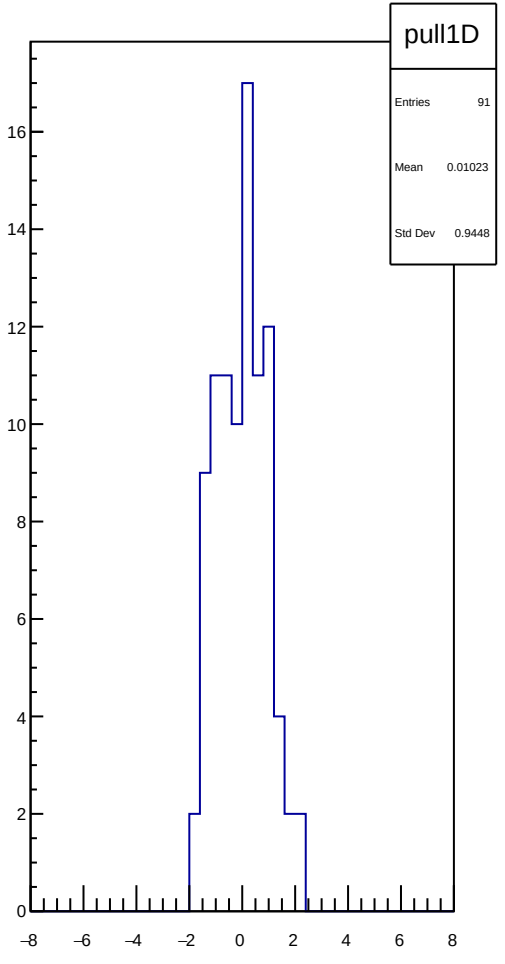

pull1D
Entries 91
Mean −0.02524
Std Dev 0.9755

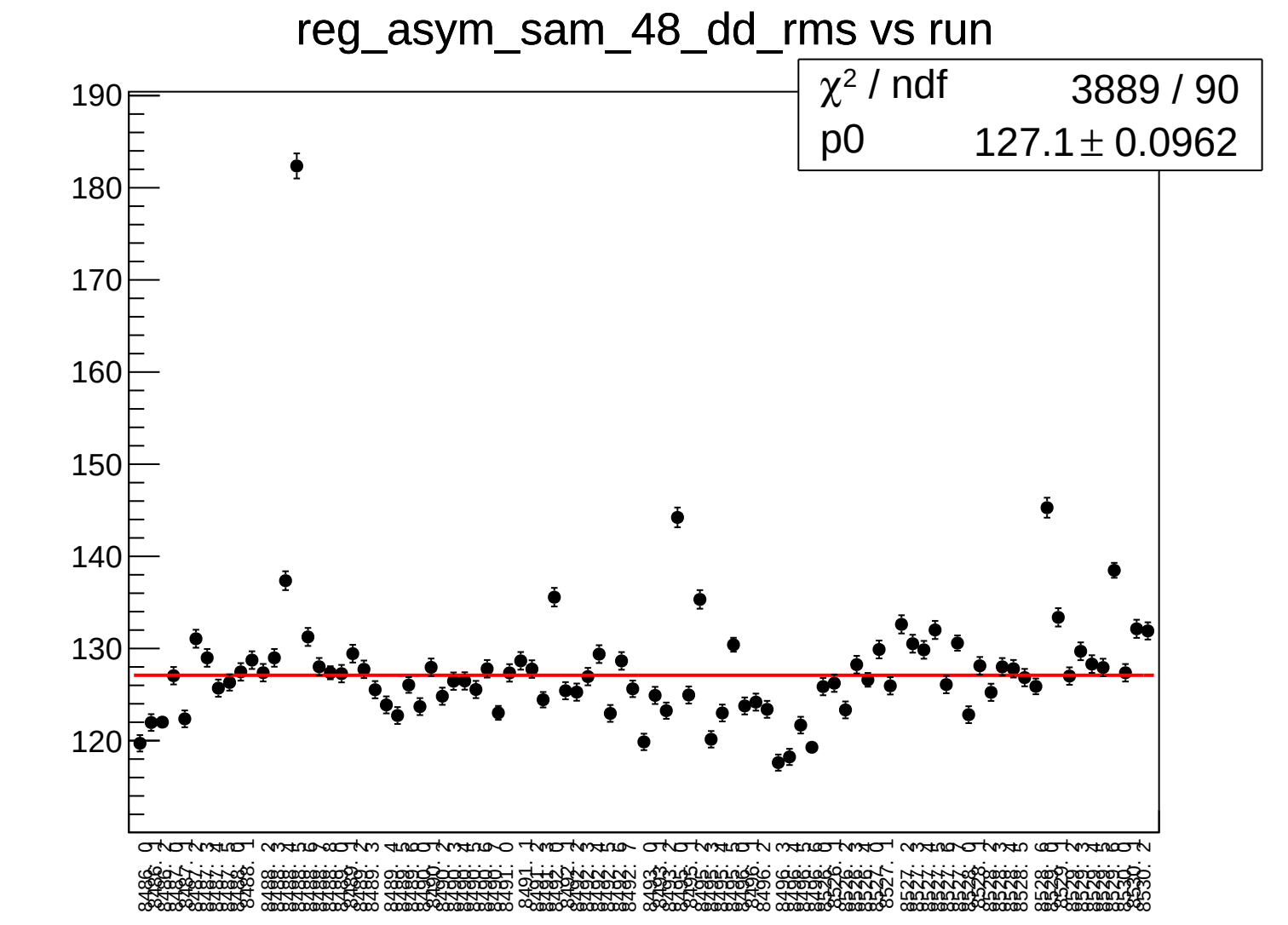

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.934e+05 / 90
p0 18.77 ± 0.01612
60
50
40
30
20
10

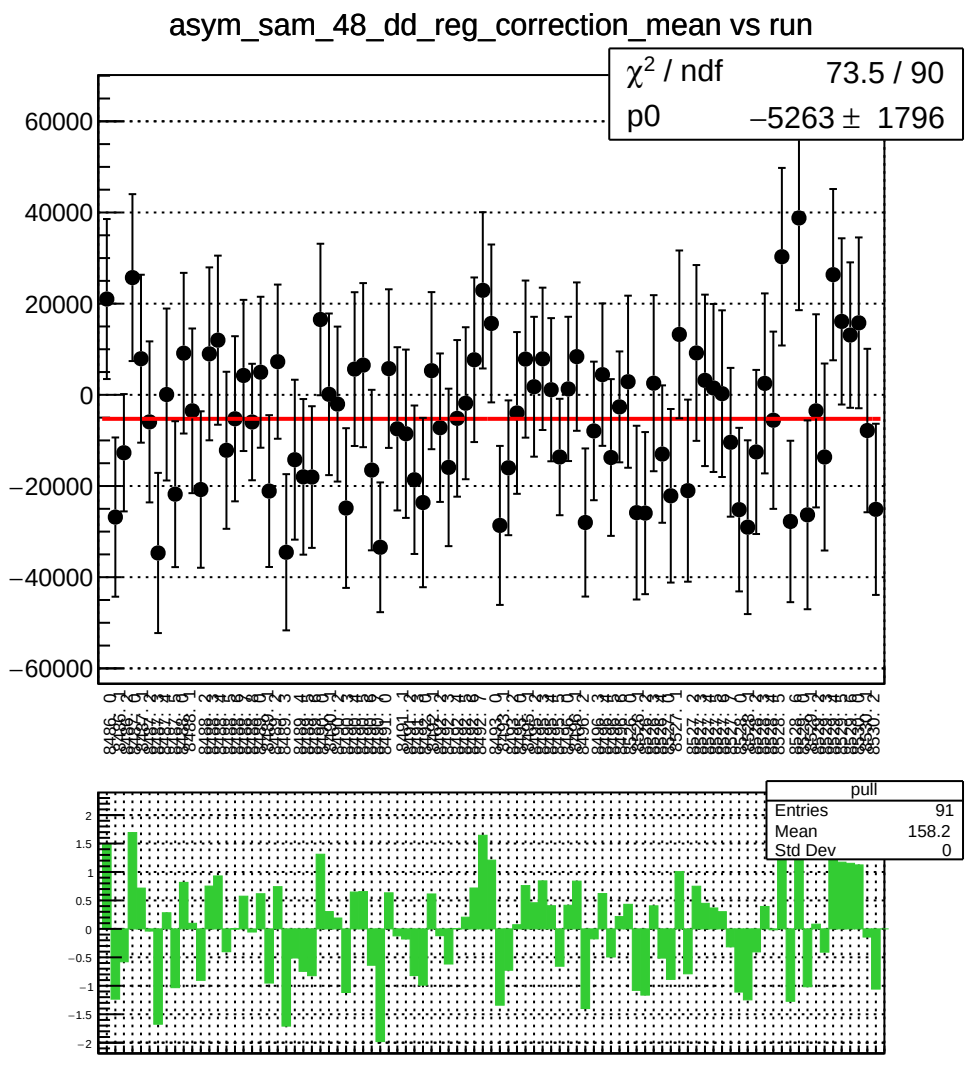

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 69.17 / 90
p0 2.476e−14 ± 4.091e−14
pull
Entries 91
Mean −34.28
Std Dev 0
pull1D
Entries 91
Mean 0.03587
Std Dev 0.8711

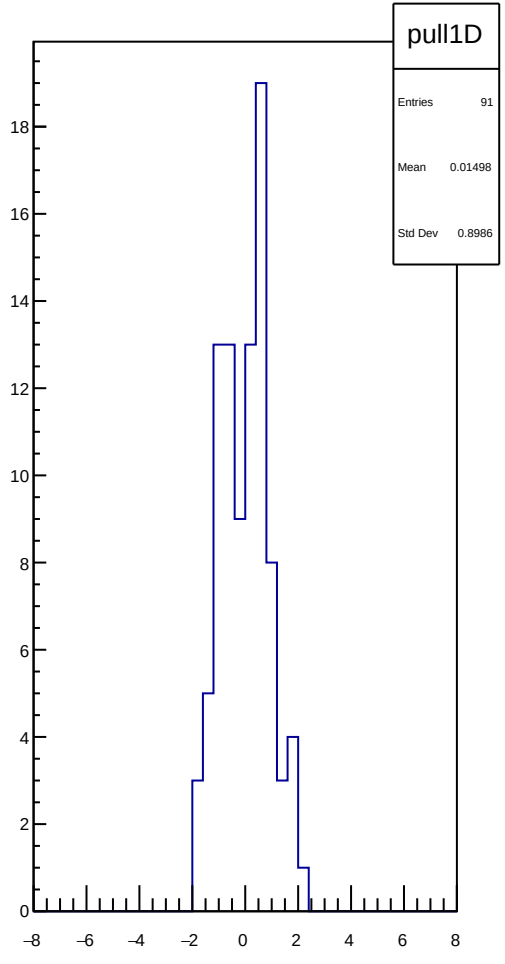

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.822e+05 / 90
p0 3.382e−11 ± 2.892e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

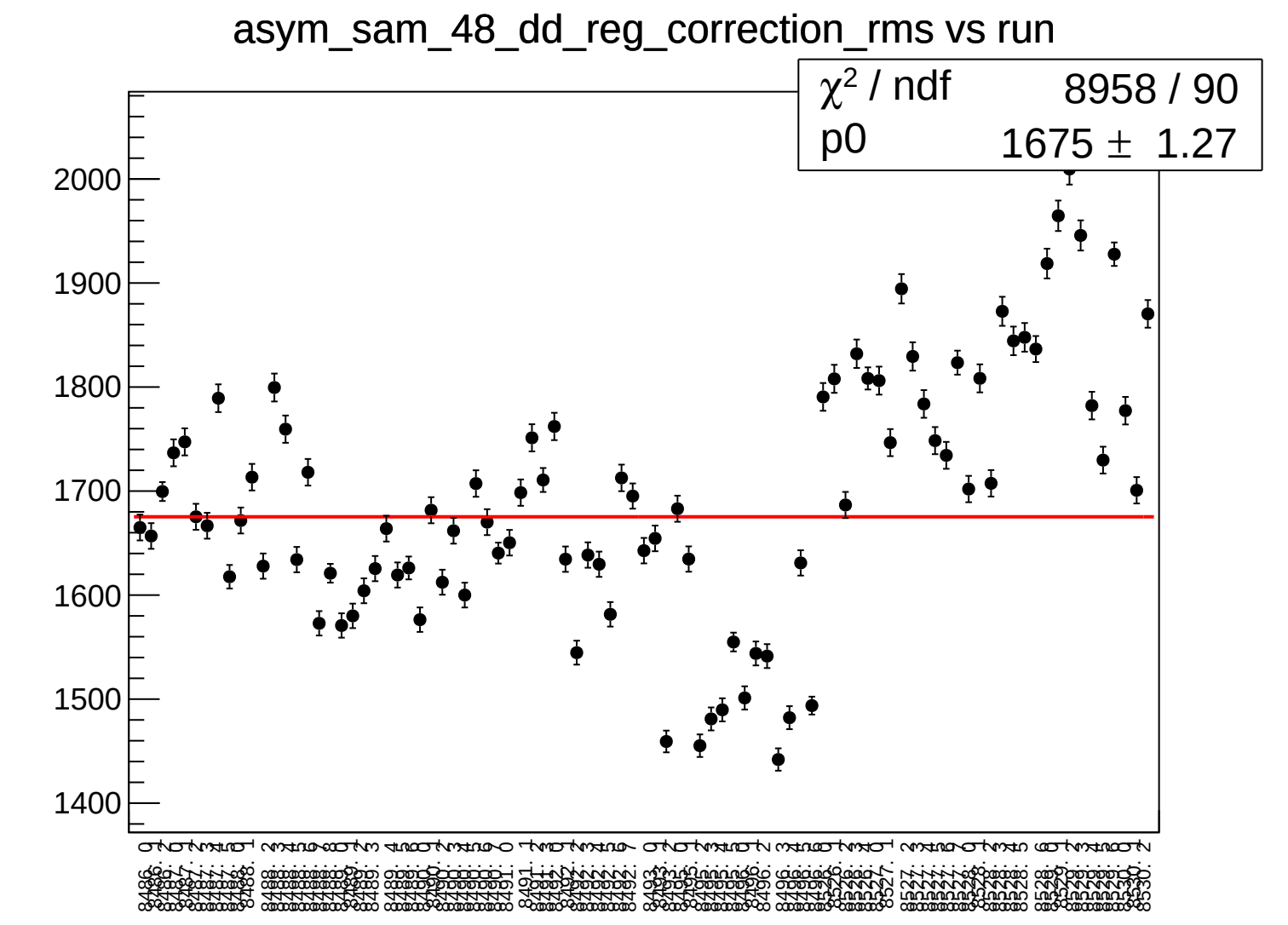

reg_asym_sam_48_dd_mean vs run
χ² / ndf 81.25 / 90
p0 388 ± 136
pull
Entries 91
Mean −586
Std Dev 0

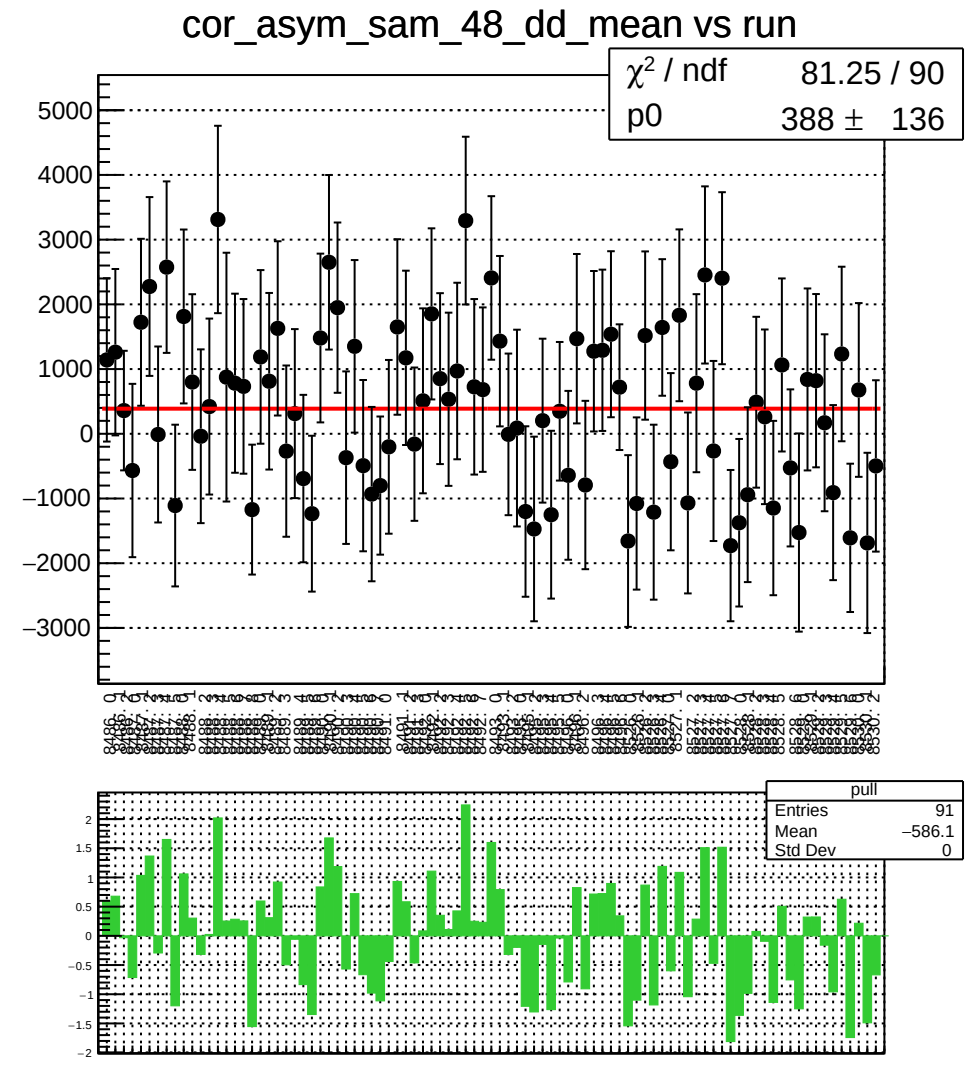

pull1D
Entries 91
Mean 0.01023
Std Dev 0.9448

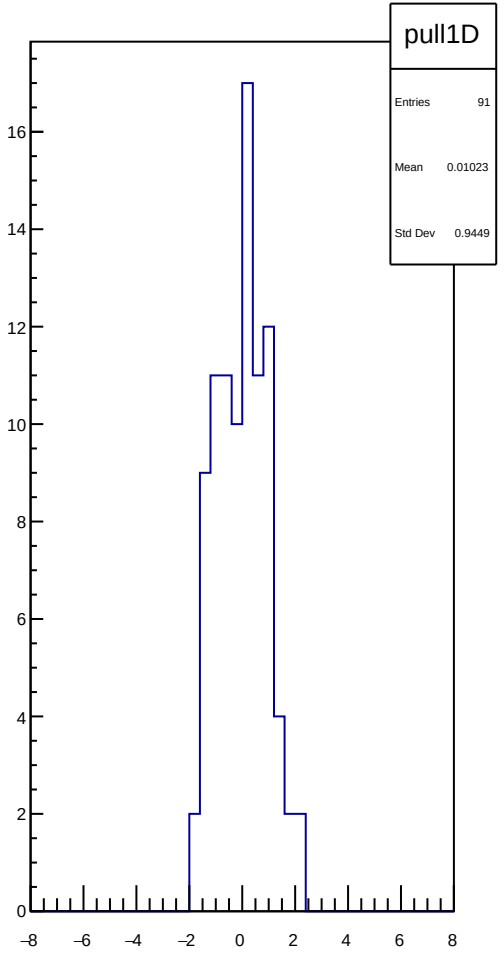

reg_asym_sam_48_dd_rms vs run
χ² / ndf 3889 / 90
p0 127.1 ± 0.0962
190
180
170
160
150
140
130
120

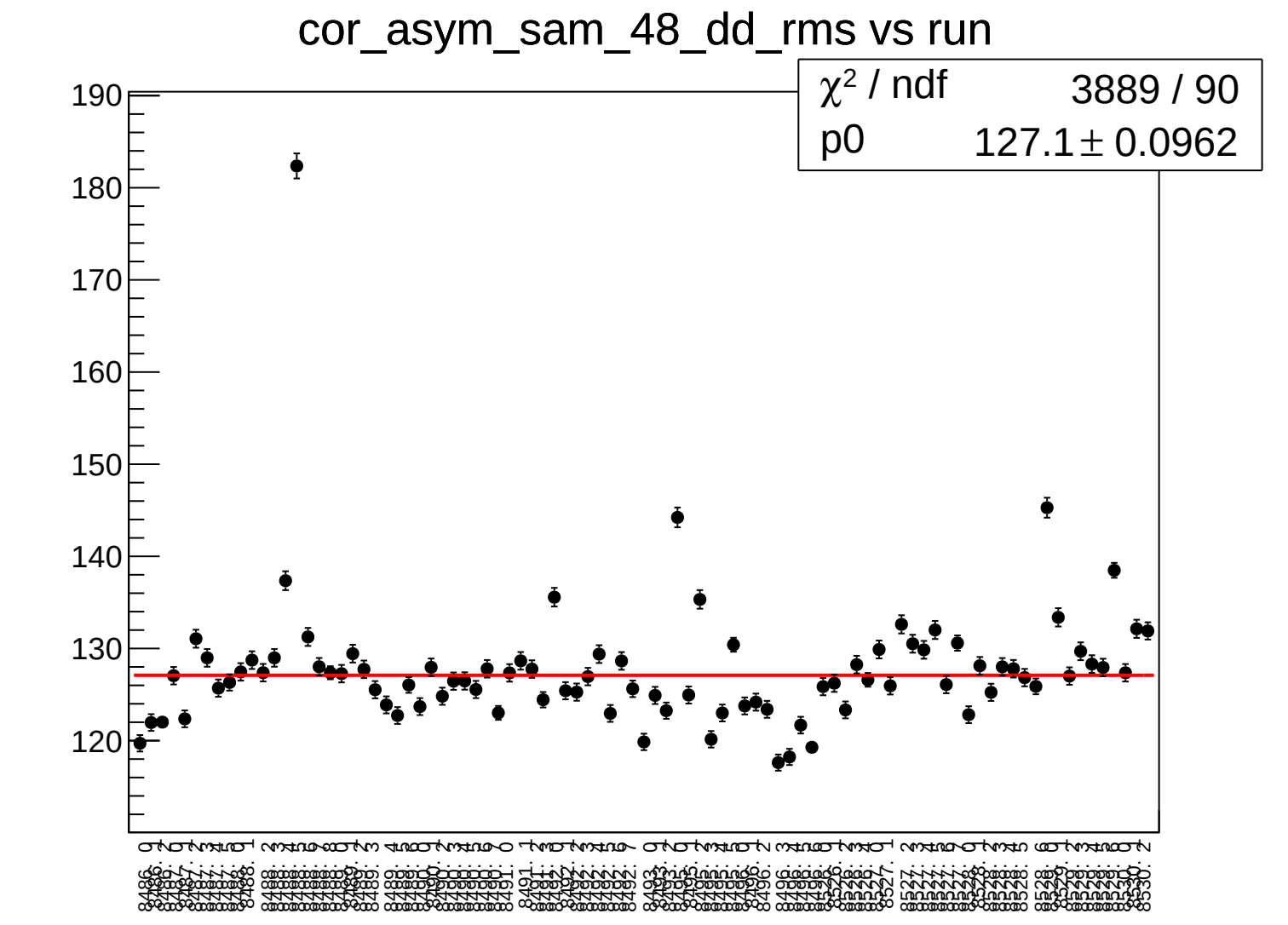

asym_sam_48_dd_reg_correction_mean vs run
χ² / ndf 73.5 / 90
p0 −5263 ± 1796
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 158.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

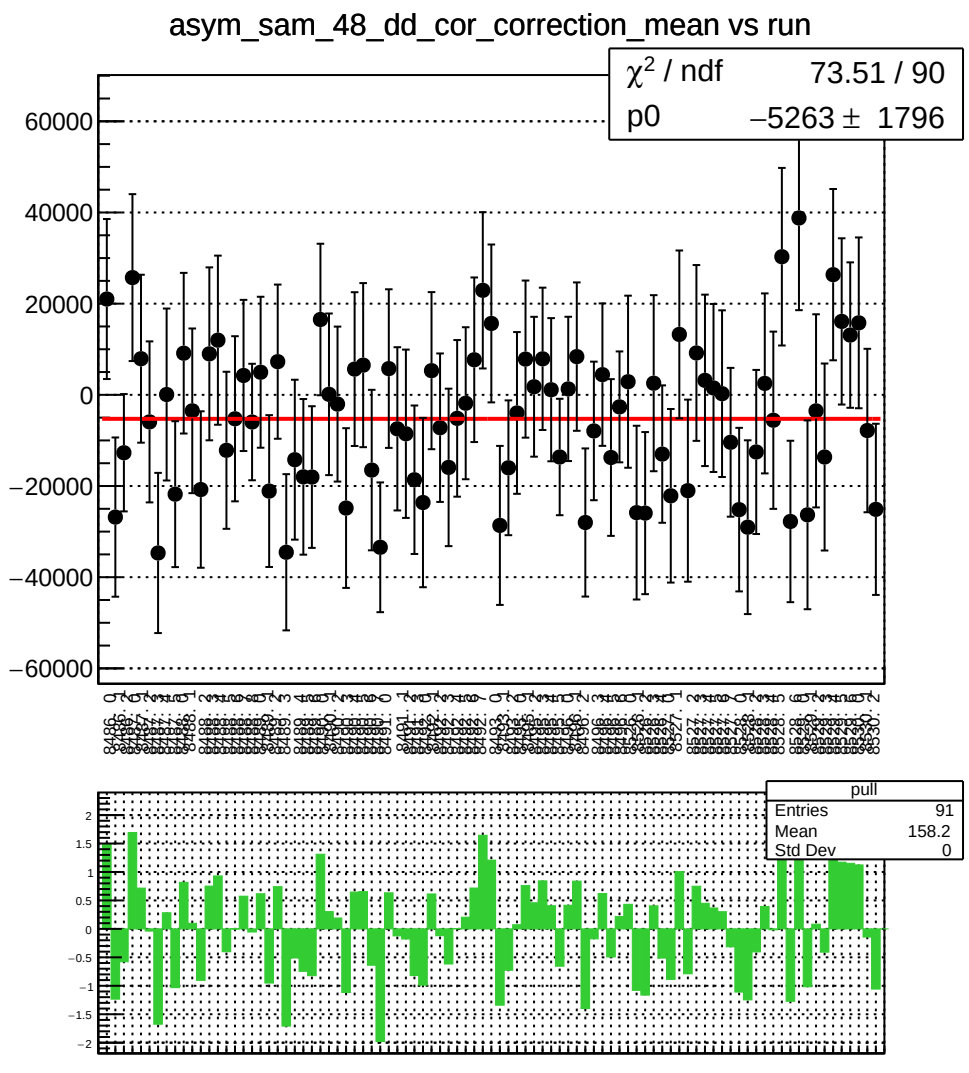

pull1D
Entries 91
Mean 0.01498
Std Dev 0.8986
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

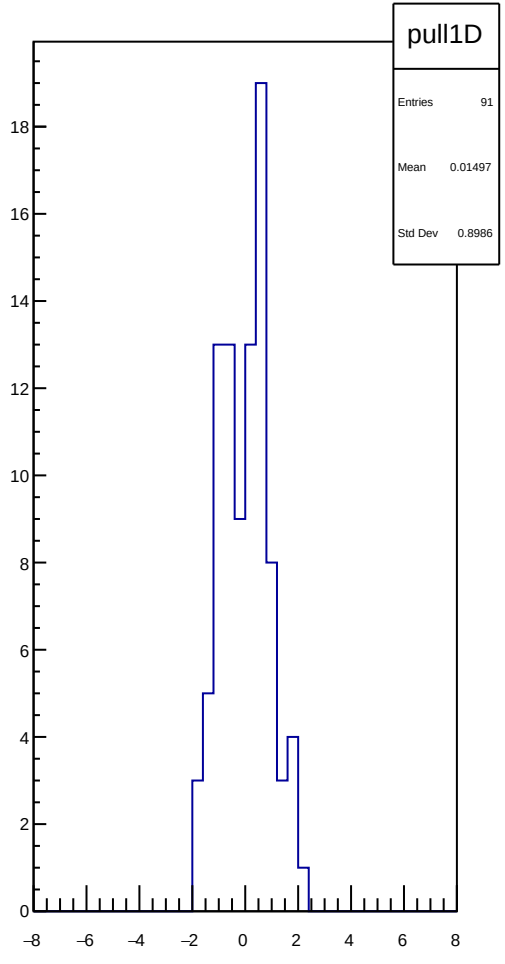

asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 8958 / 90
p0 1675 ± 1.27
2000
1900
1800
1700
1600
1500
1400

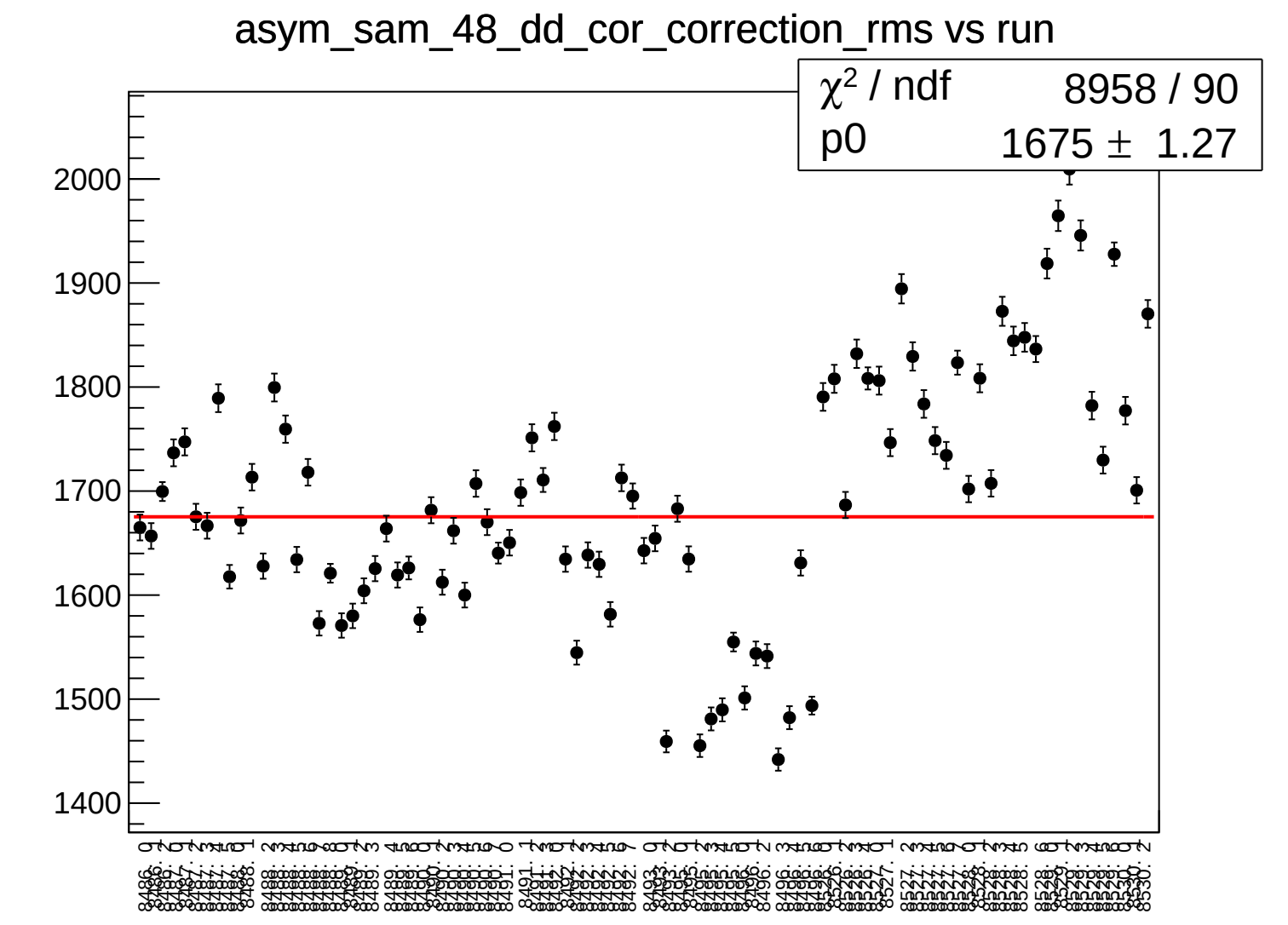

cor_asym_sam_48_dd_mean vs run
χ² / ndf 81.25 / 90
p0 388 ± 136
pull
Entries 91
Mean −586.1
Std Dev 0

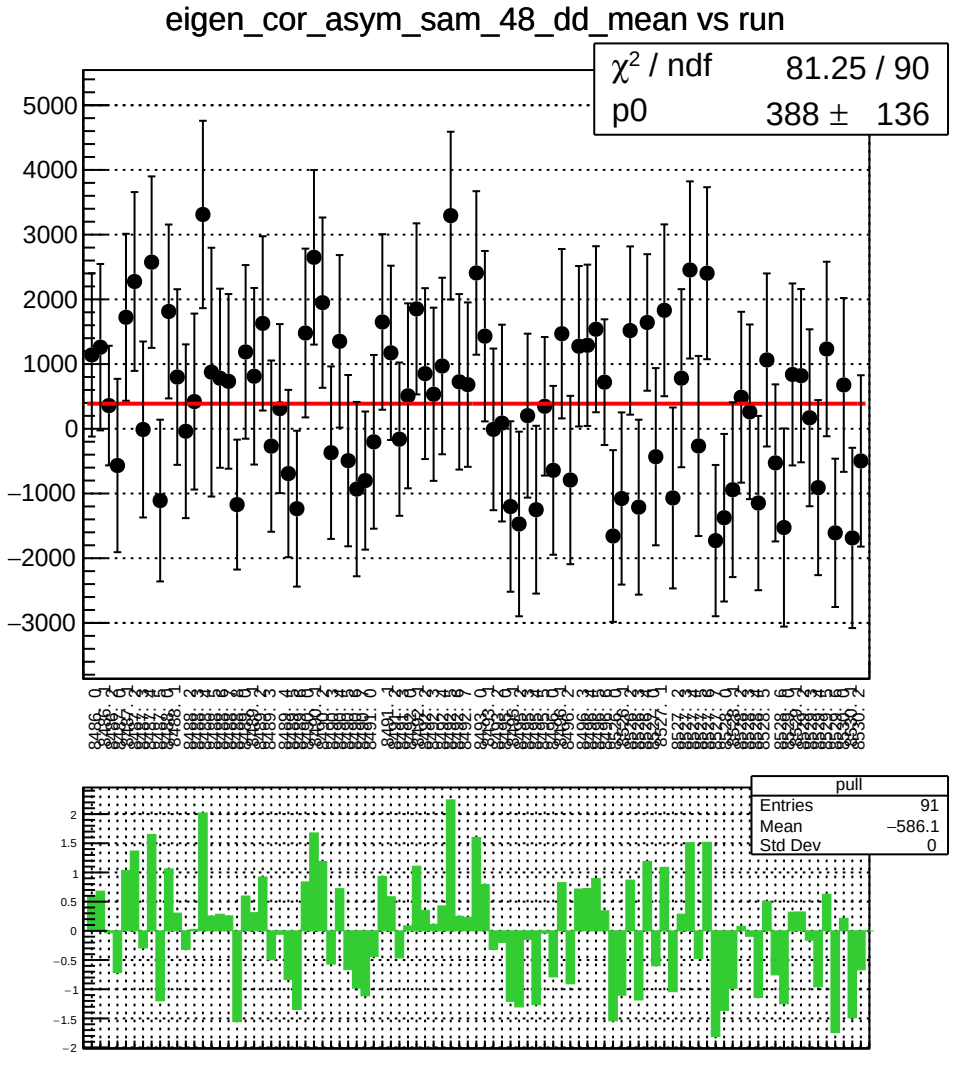

pull1D
Entries 91
Mean 0.01023
Std Dev 0.9449

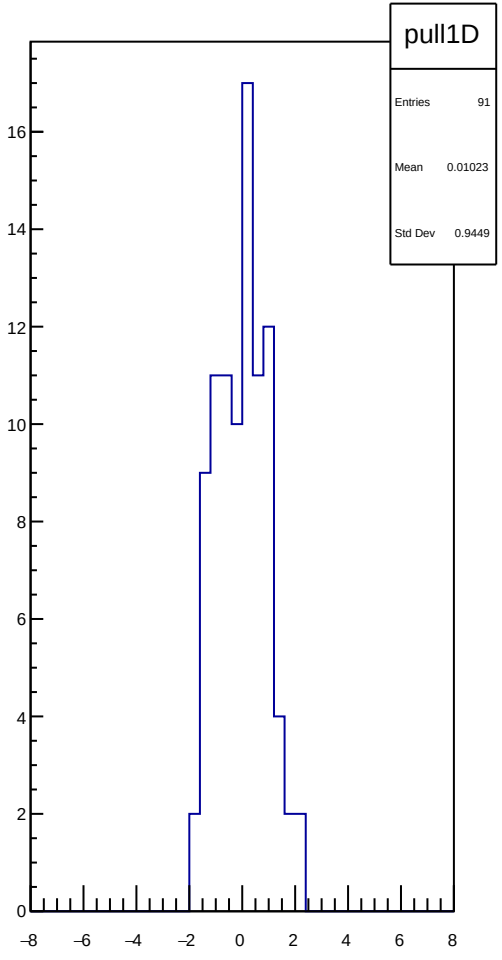

cor_asym_sam_48_dd_rms vs run
χ² / ndf 3889 / 90
p0 127.1 ± 0.0962
190
180
170
160
150
140
130
120

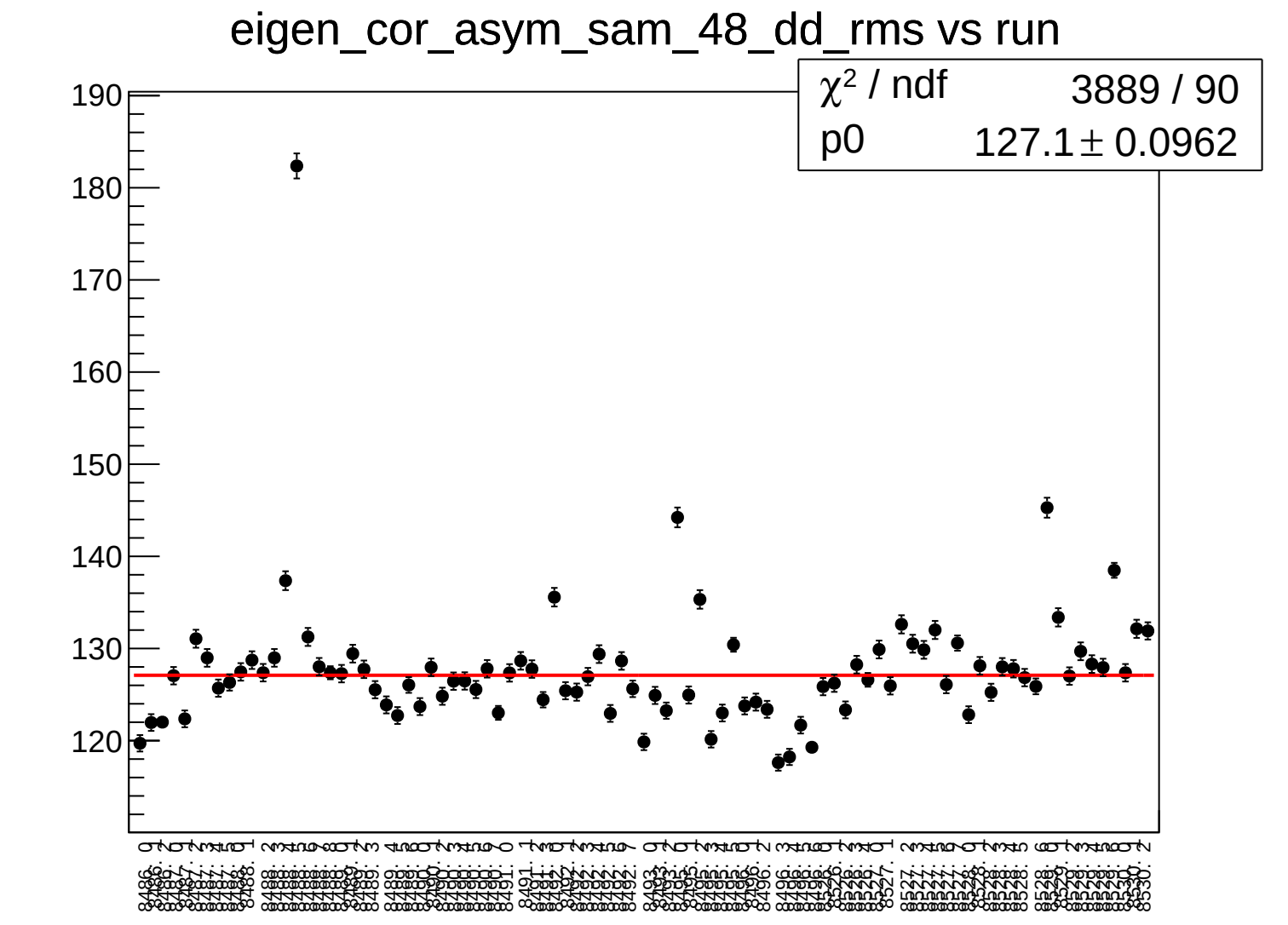

asym_sam_48_dd_cor_correction_mean vs run
χ² / ndf 73.51 / 90
p0 −5263 ± 1796
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 158.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

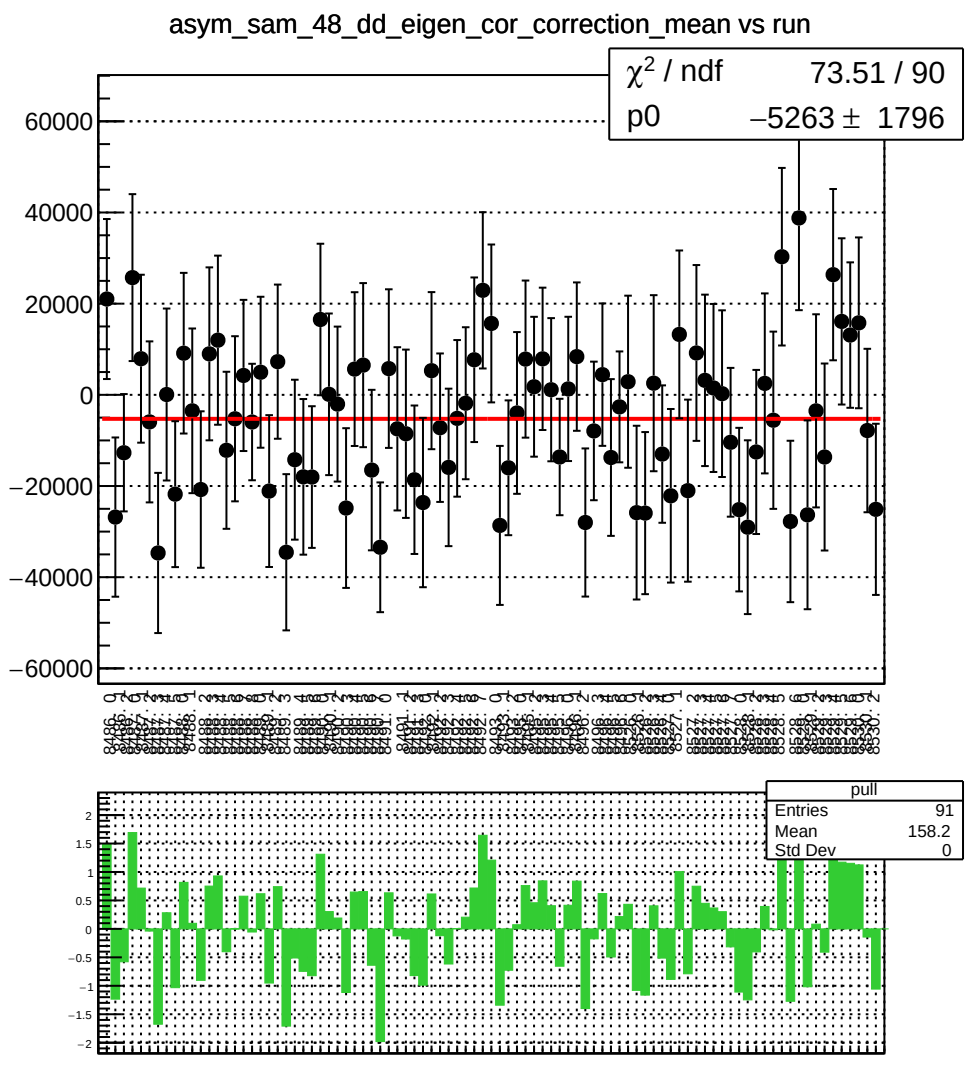

pull1D
Entries 91
Mean 0.01497
Std Dev 0.8986
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

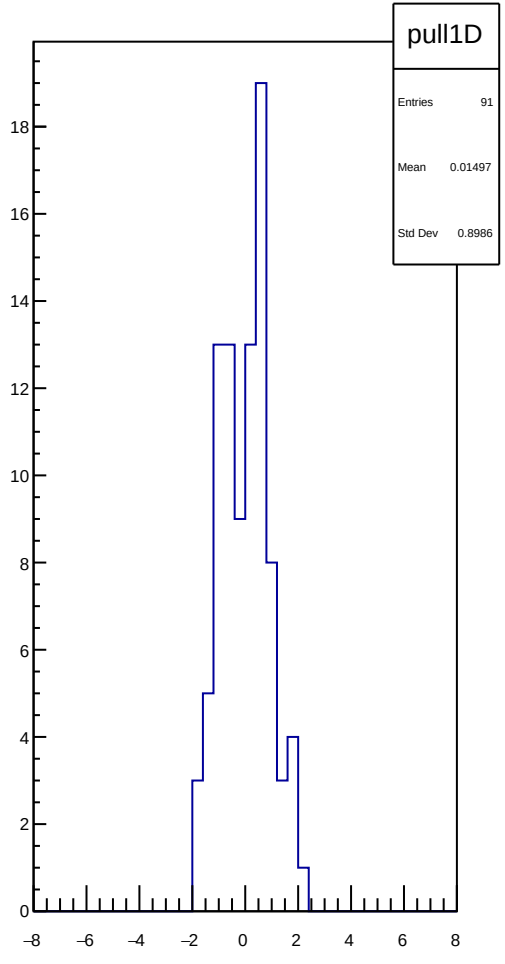

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 8958 / 90
p0 1675 ± 1.27
2000
1900
1800
1700
1600
1500
1400

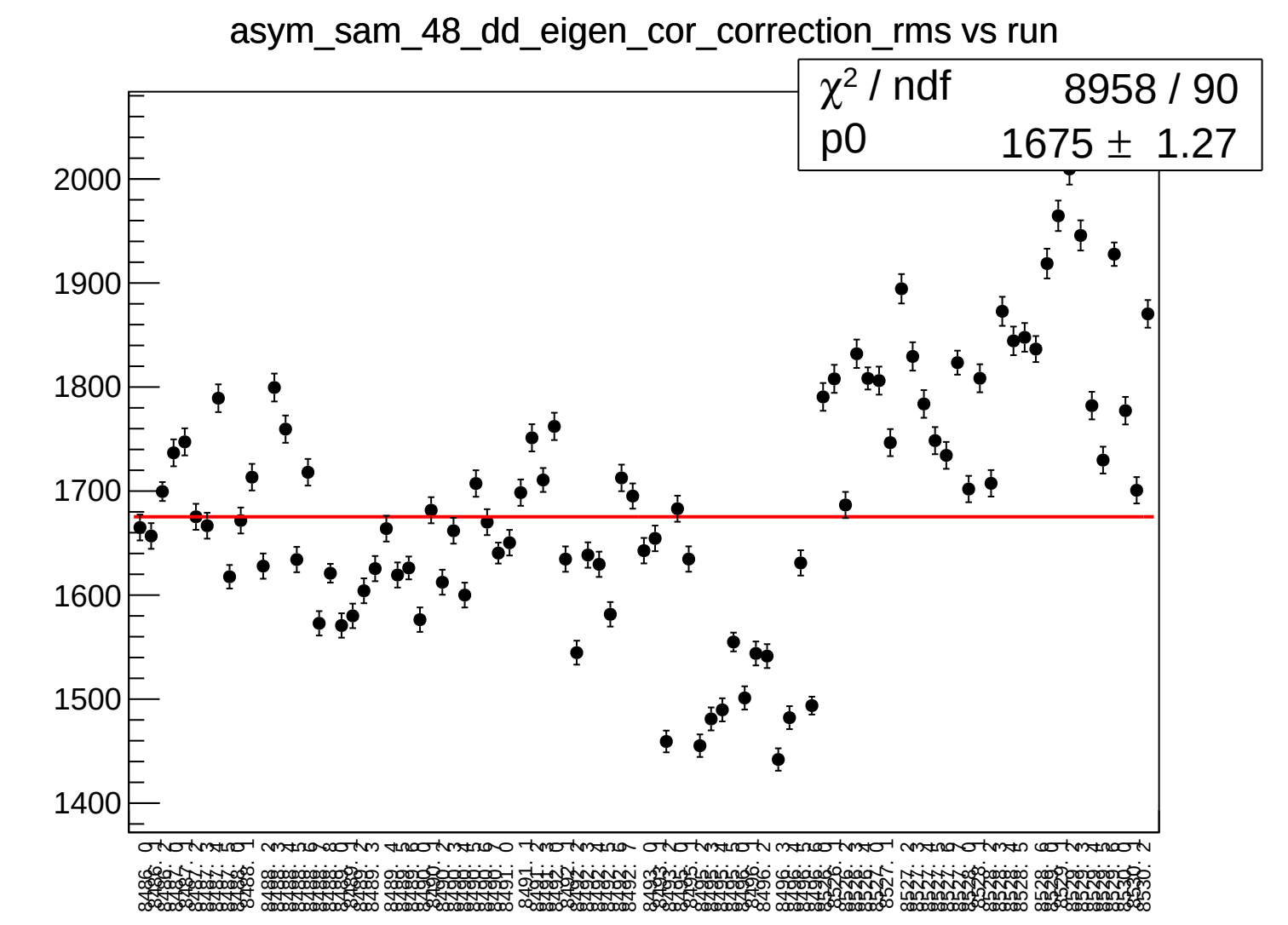

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 81.25 / 90
p0 388 ± 136
pull
Entries 91
Mean −586.1
Std Dev 0

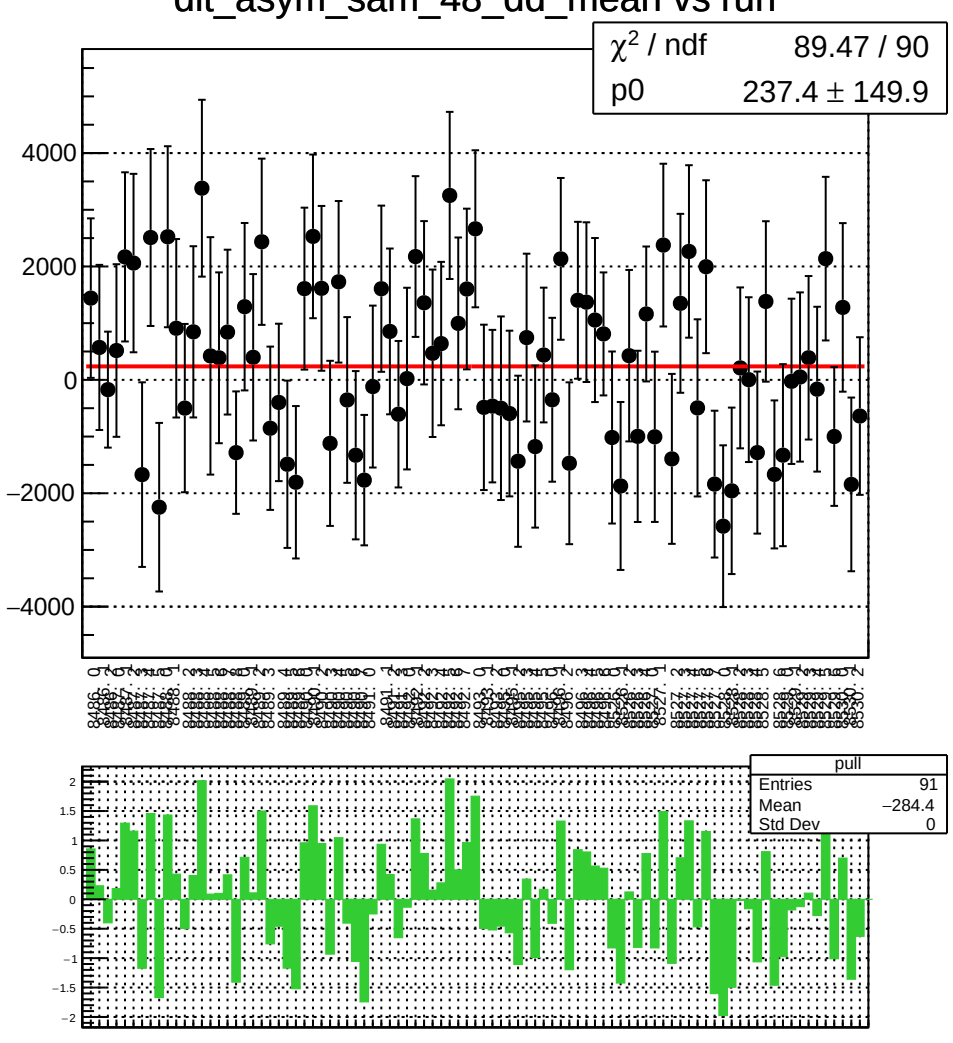

pull1D
Entries 91
Mean 0.01023
Std Dev 0.9449

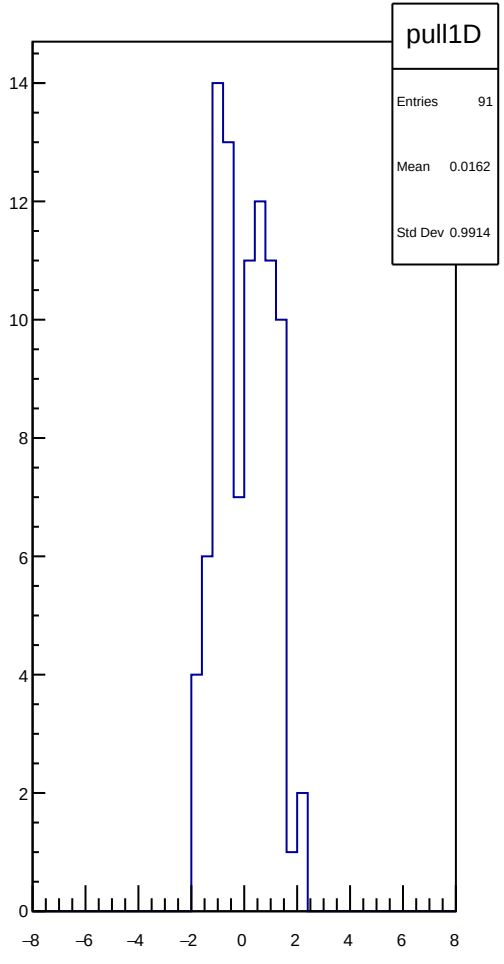

eigen_cor_asym_sam_48_dd_rms vs run
χ² / ndf 3889 / 90
p0 127.1 ± 0.0962
190
180
170
160
150
140
130
120

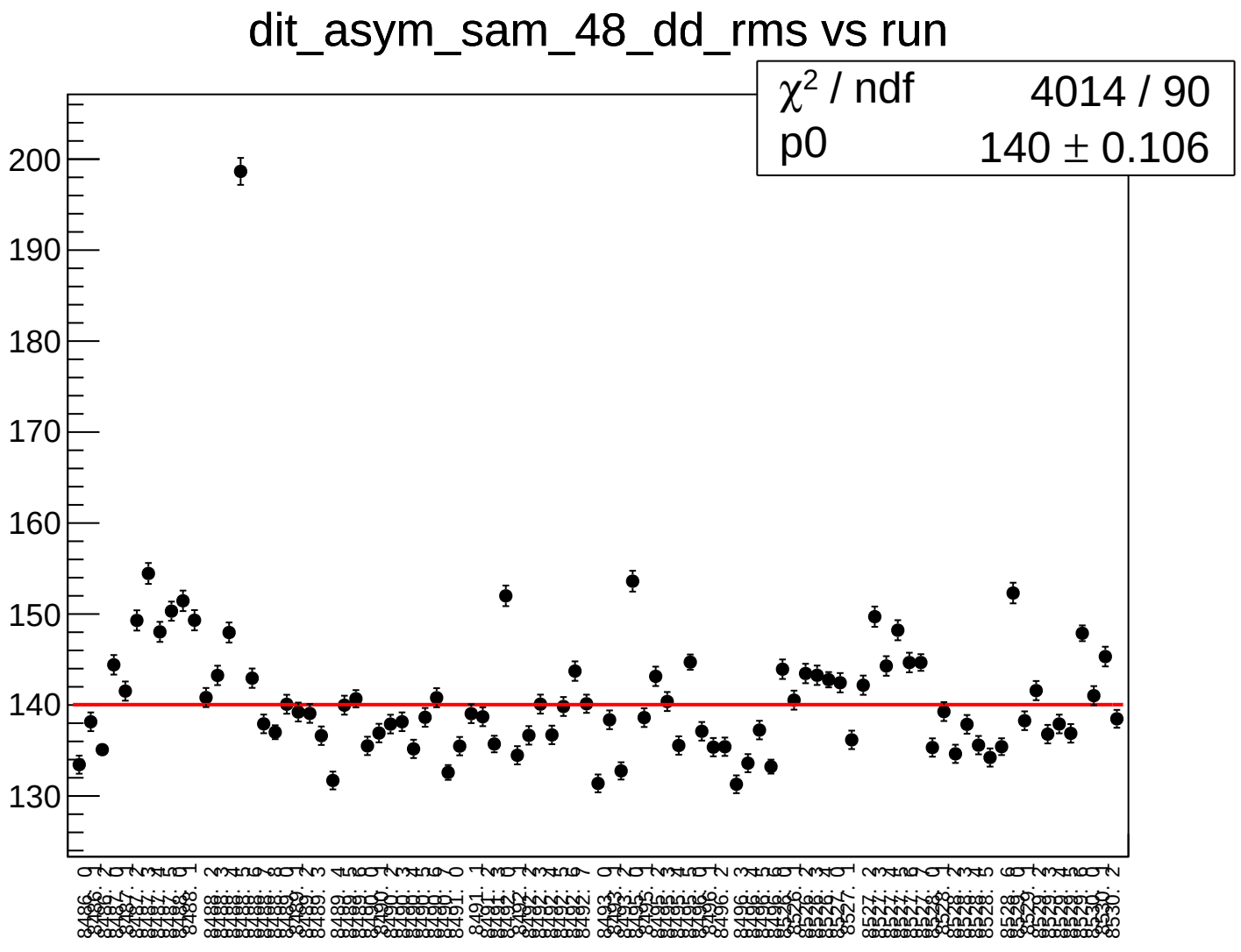

asym_sam_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 73.51 / 90
p0 −5263 ± 1796
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 158.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

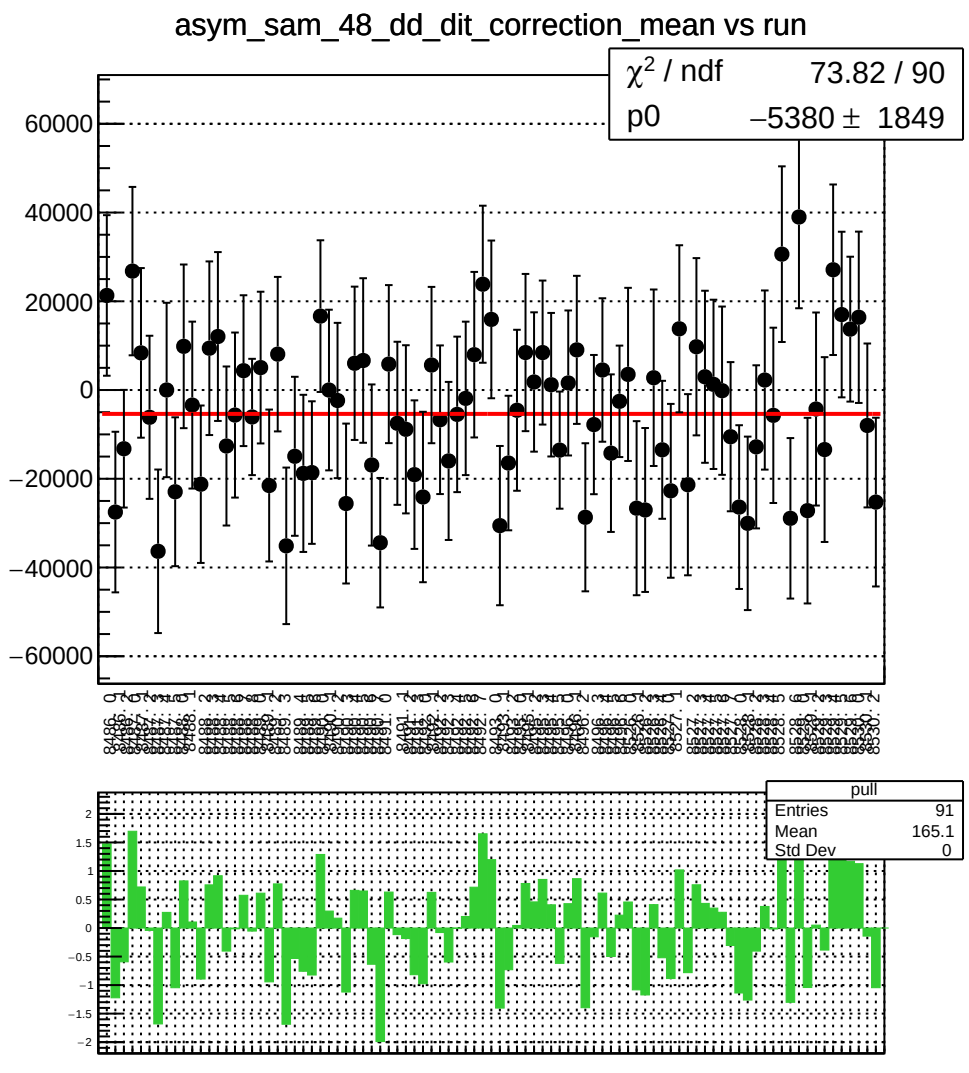

pull1D
Entries 91
Mean 0.01497
Std Dev 0.8986
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

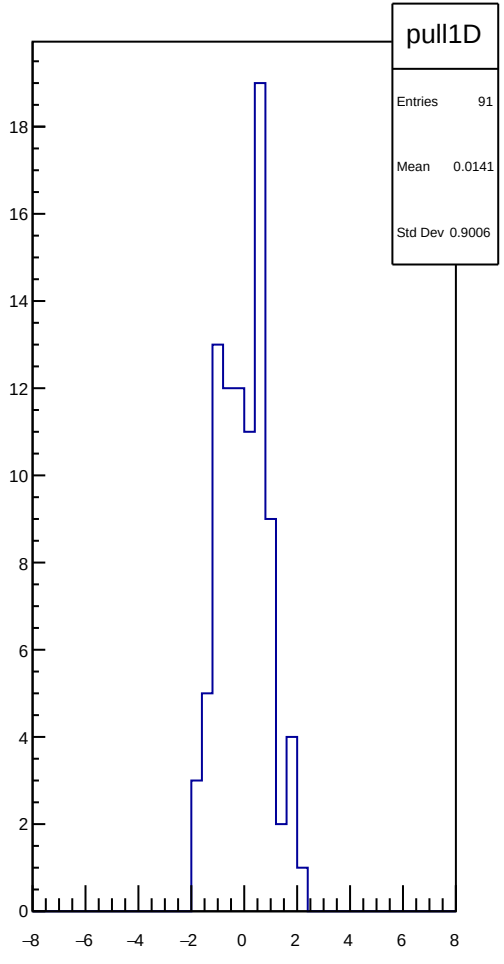

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 8958 / 90
p0 1675 ± 1.27
2000
1900
1800
1700
1600
1500
1400

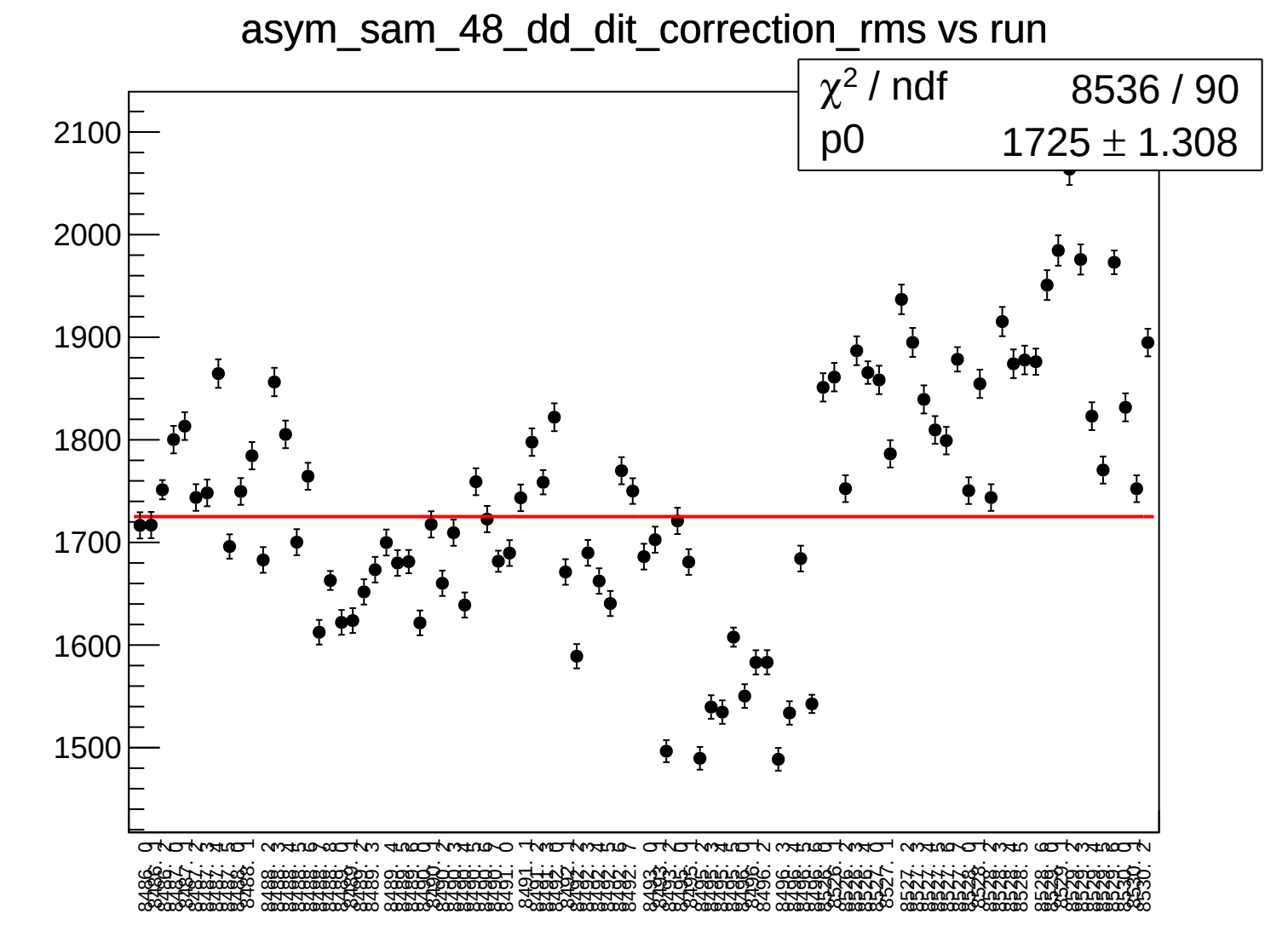

dit_asym_sam_48_dd_mean vs run
χ² / ndf 89.47 / 90
p0 237.4 ± 149.9
4000
2000
0
−2000
−4000
pull
Entries 91
Mean −284.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

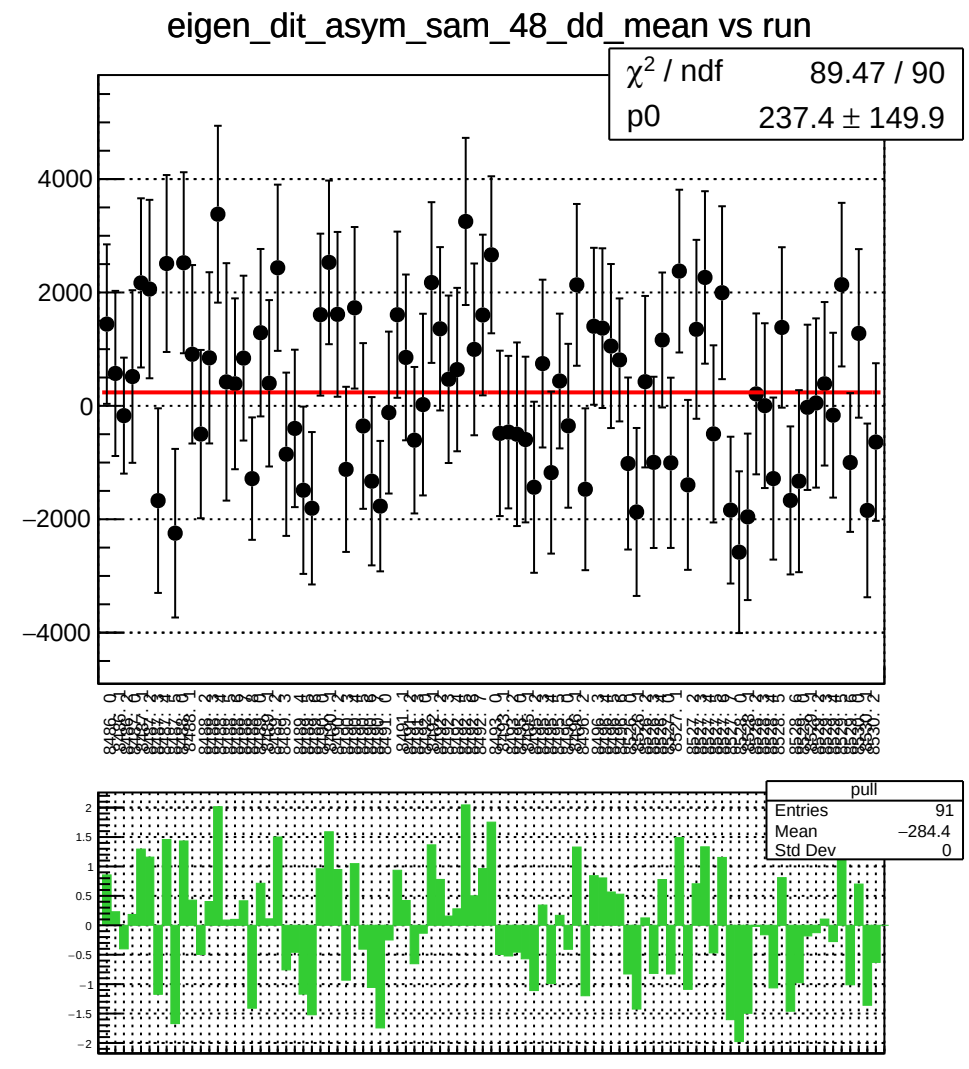

pull1D
Entries 91
Mean 0.0162
Std Dev 0.9914
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

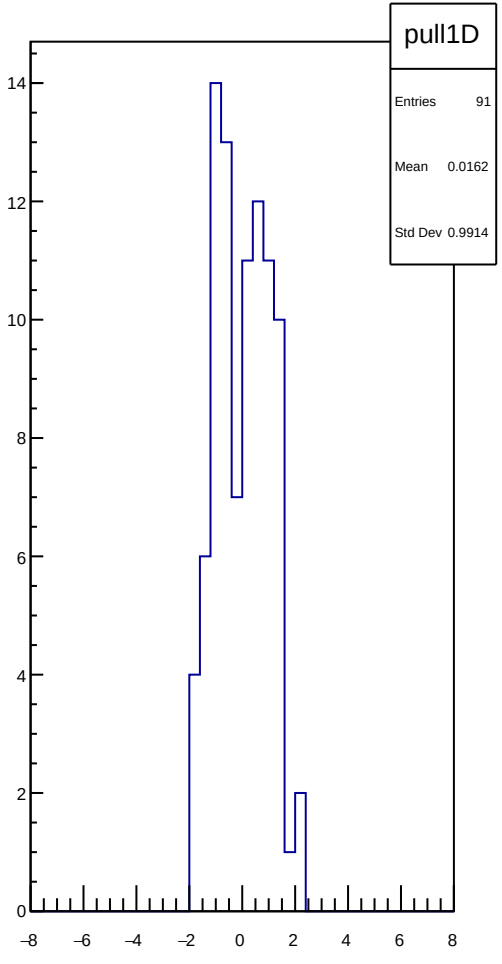

dit_asym_sam_48_dd_rms vs run
χ² / ndf 4014 / 90
p0 140 ± 0.106
200
190
180
170
160
150
140
130

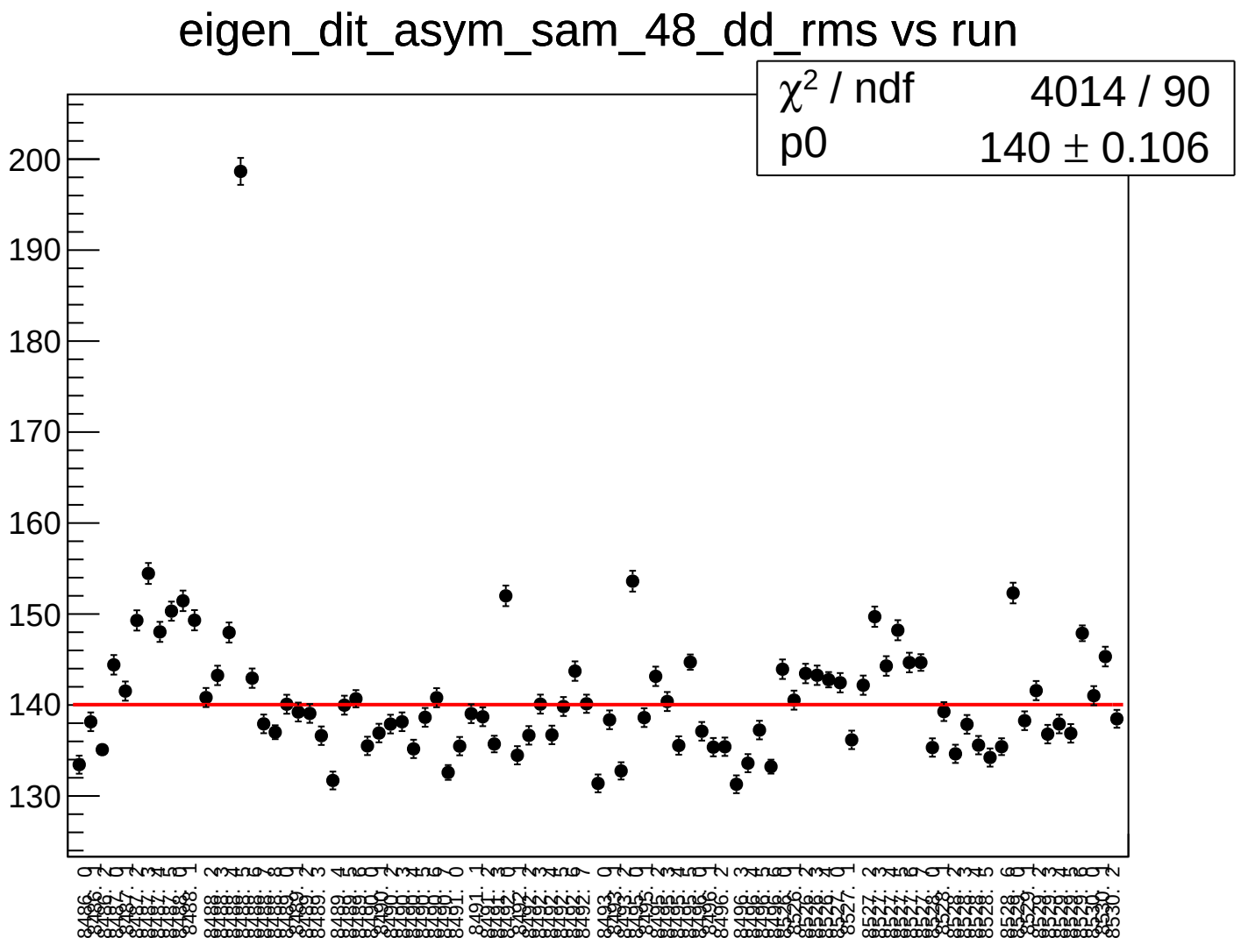

asym_sam_48_dd_dit_correction_mean vs run
χ² / ndf 73.82 / 90
p0 −5380 ± 1849
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 165.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

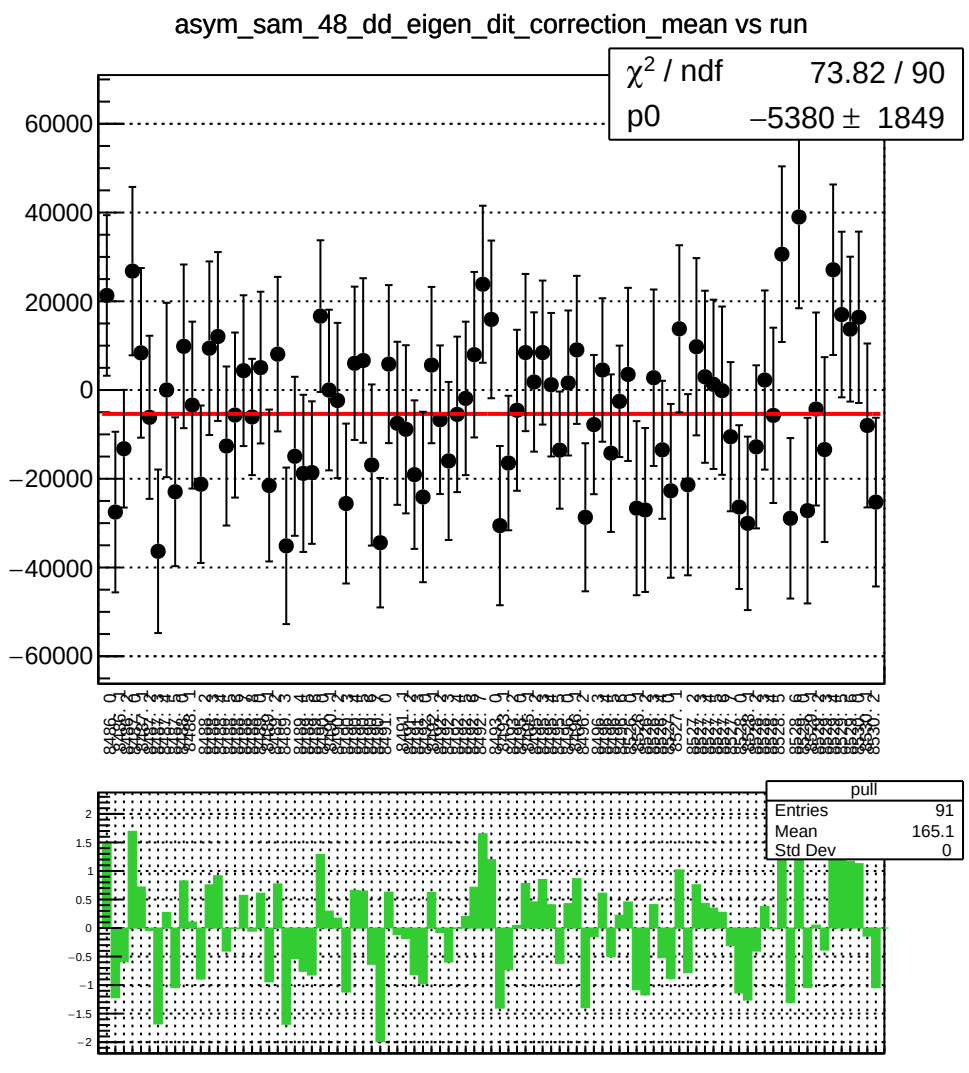

pull1D
Entries 91
Mean 0.0141
Std Dev 0.9006
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

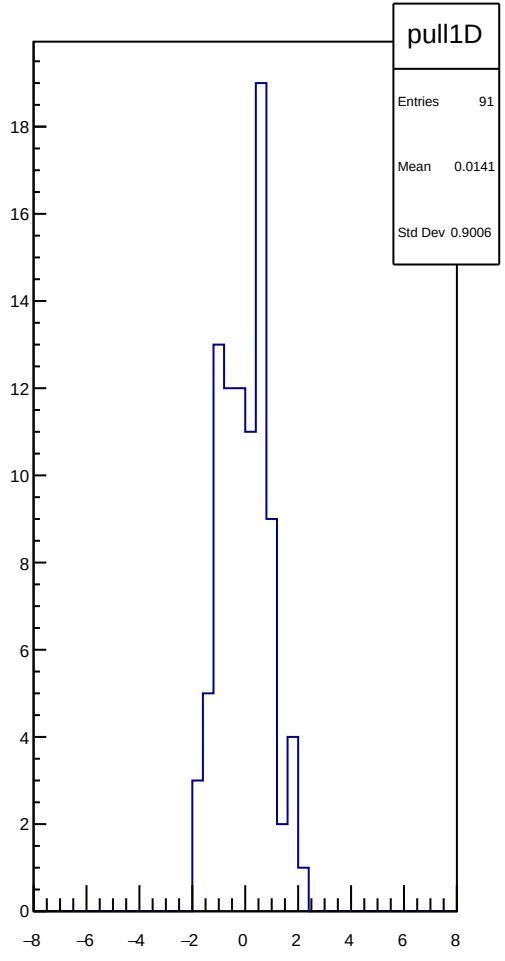

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 8536 / 90
p0 1725 ± 1.308
2100
2000
1900
1800
1700
1600
1500

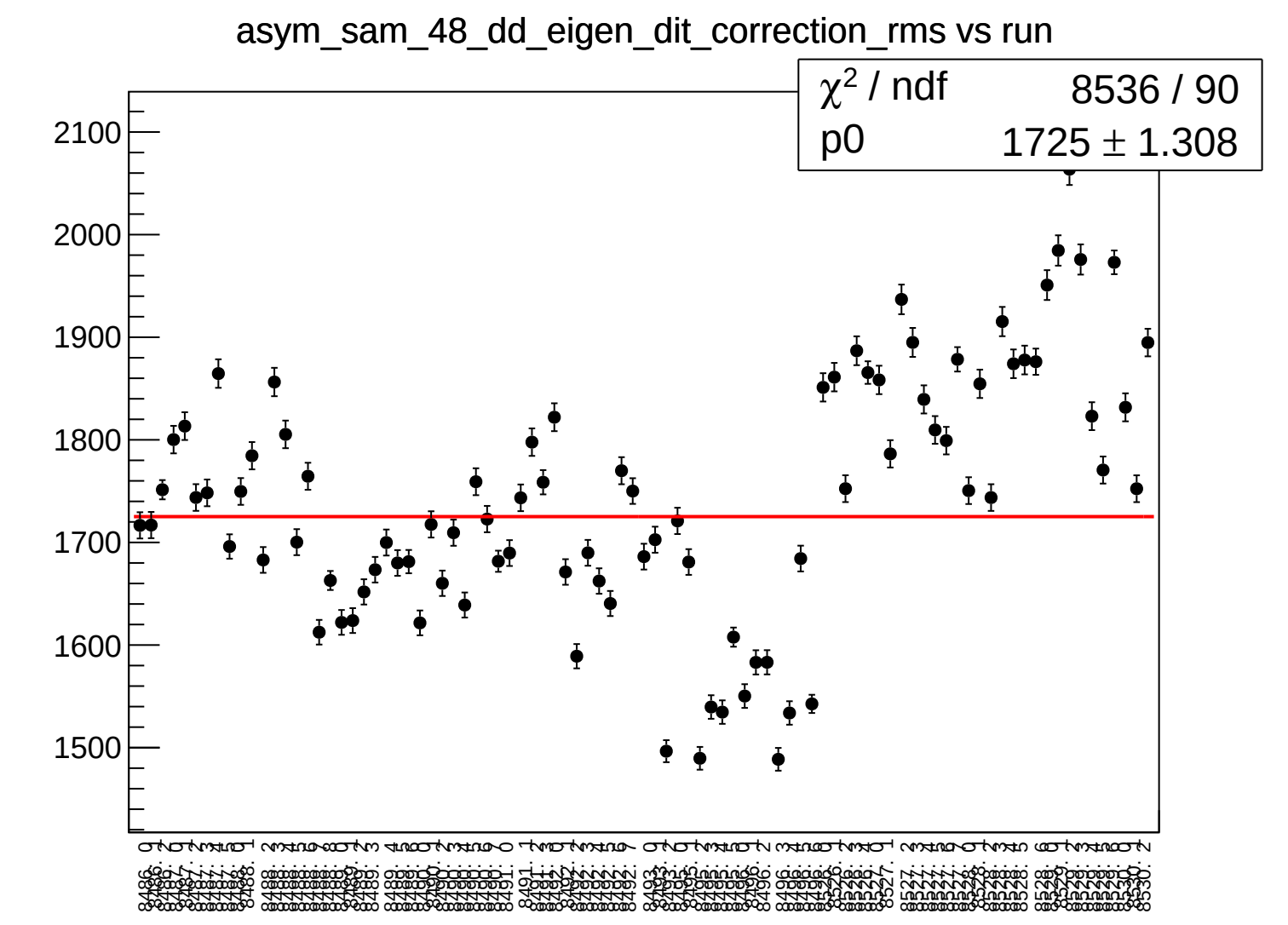

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 89.47 / 90
p0 237.4 ± 149.9
4000
2000
0
−2000
−4000
pull
Entries 91
Mean −284.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

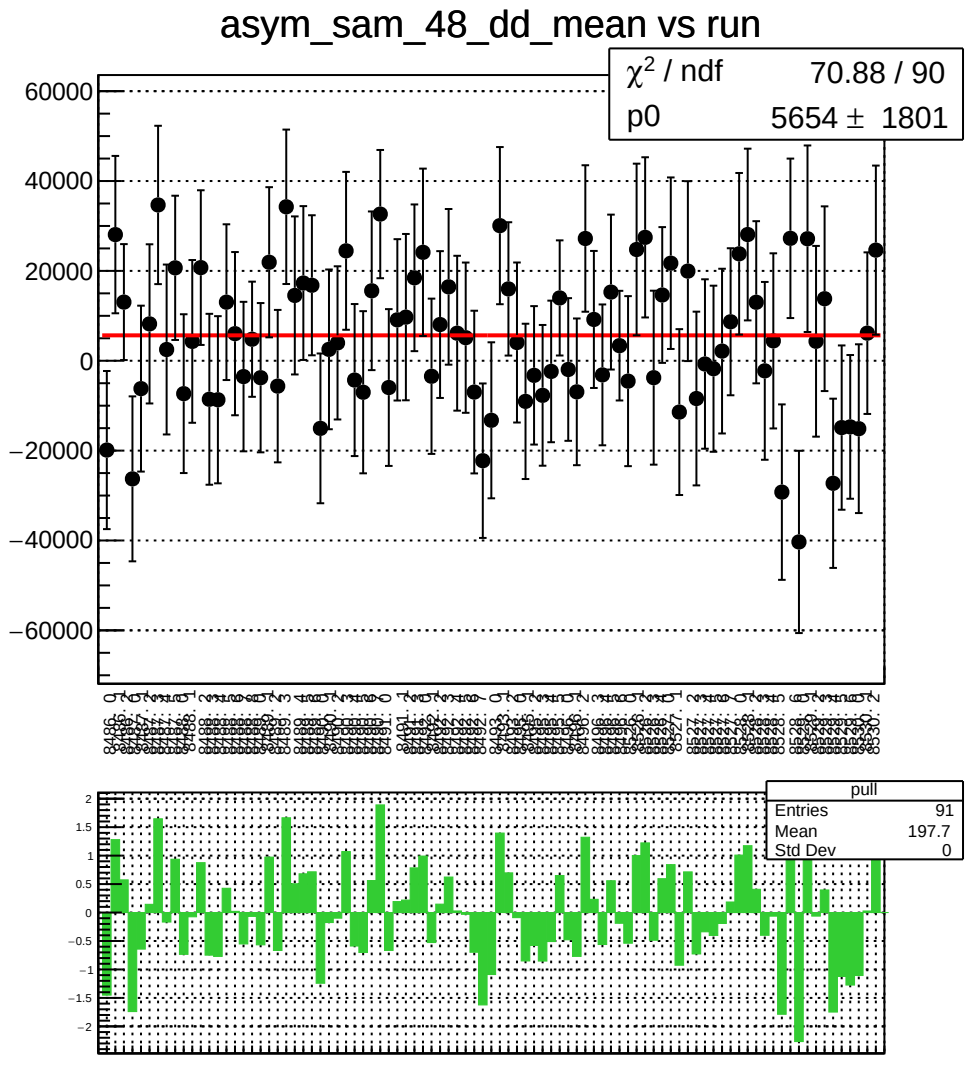

pull1D
Entries 91
Mean 0.0162
Std Dev 0.9914
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

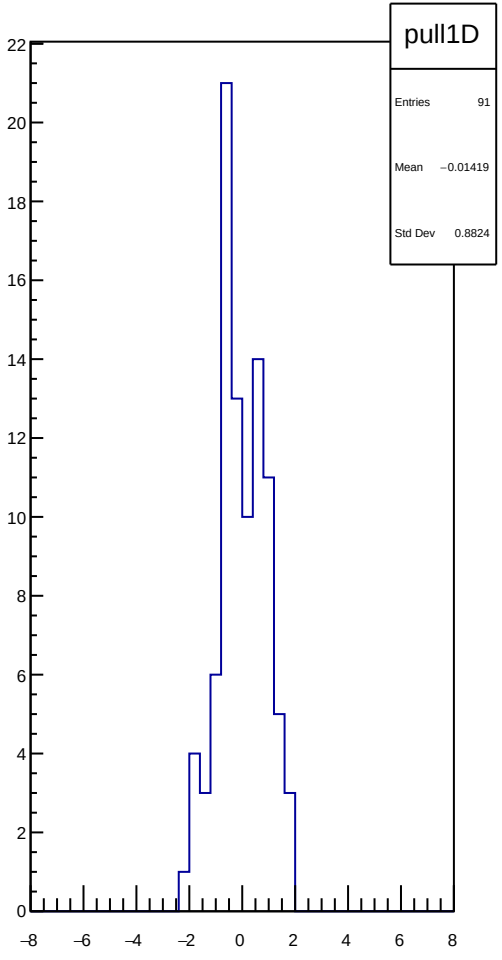

eigen_dit_asym_sam_48_dd_rms vs run
χ² / ndf 4014 / 90
p0 140 ± 0.106
200
190
180
170
160
150
140
130

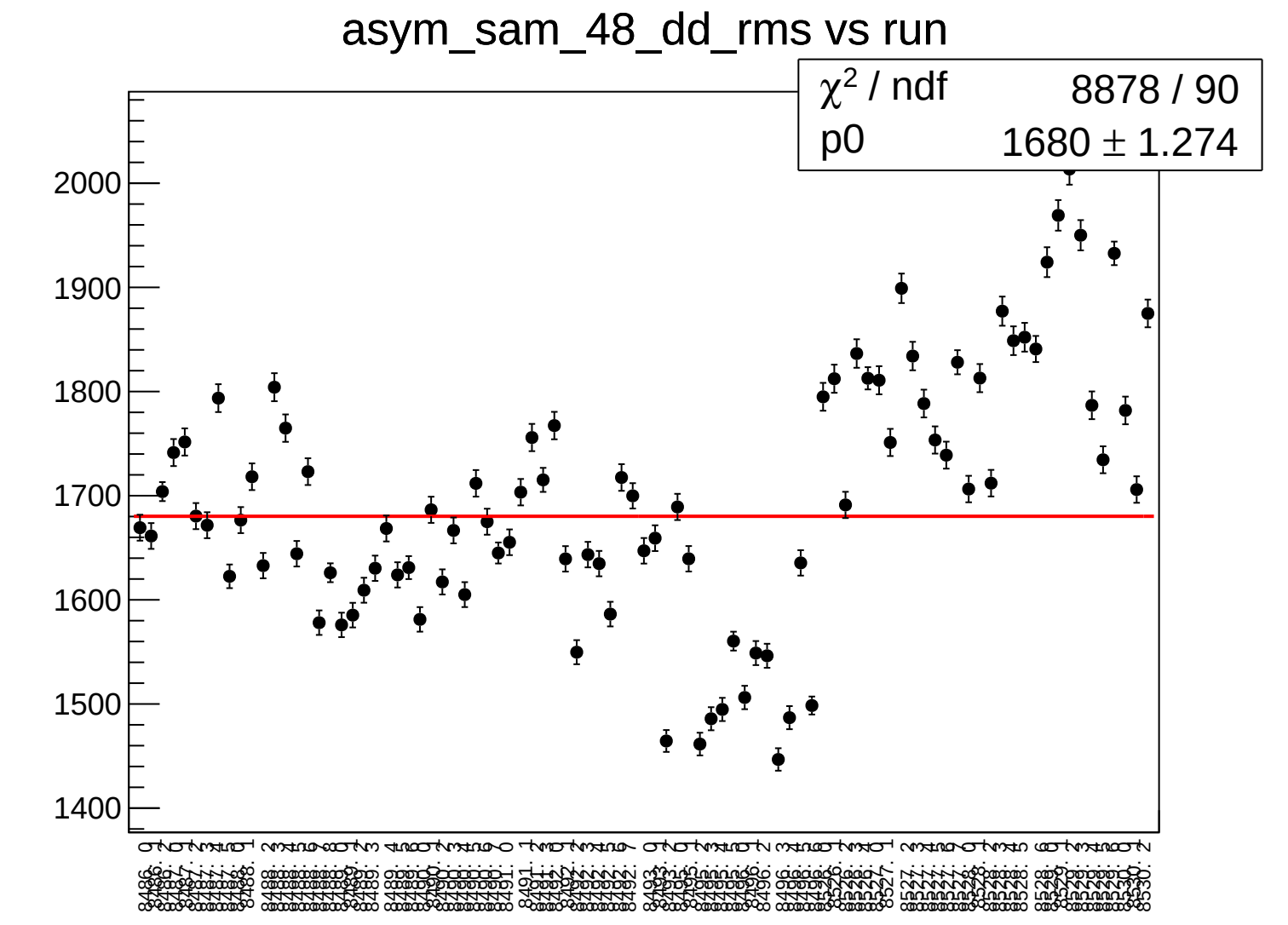

asym_sam_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 73.82 / 90
p0 −5380 ± 1849
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 165.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

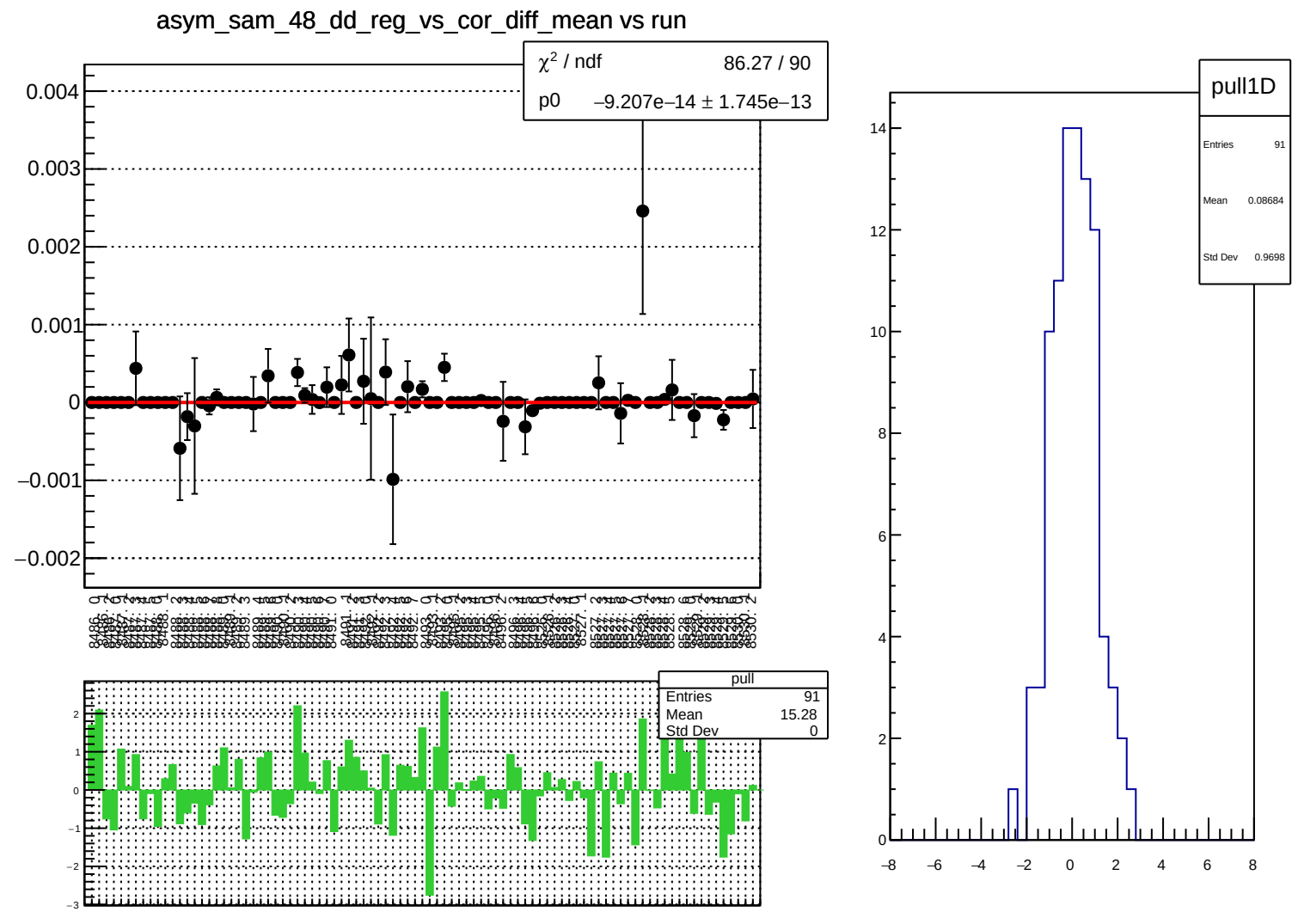

pull1D
Entries 91
Mean 0.0141
Std Dev 0.9006
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

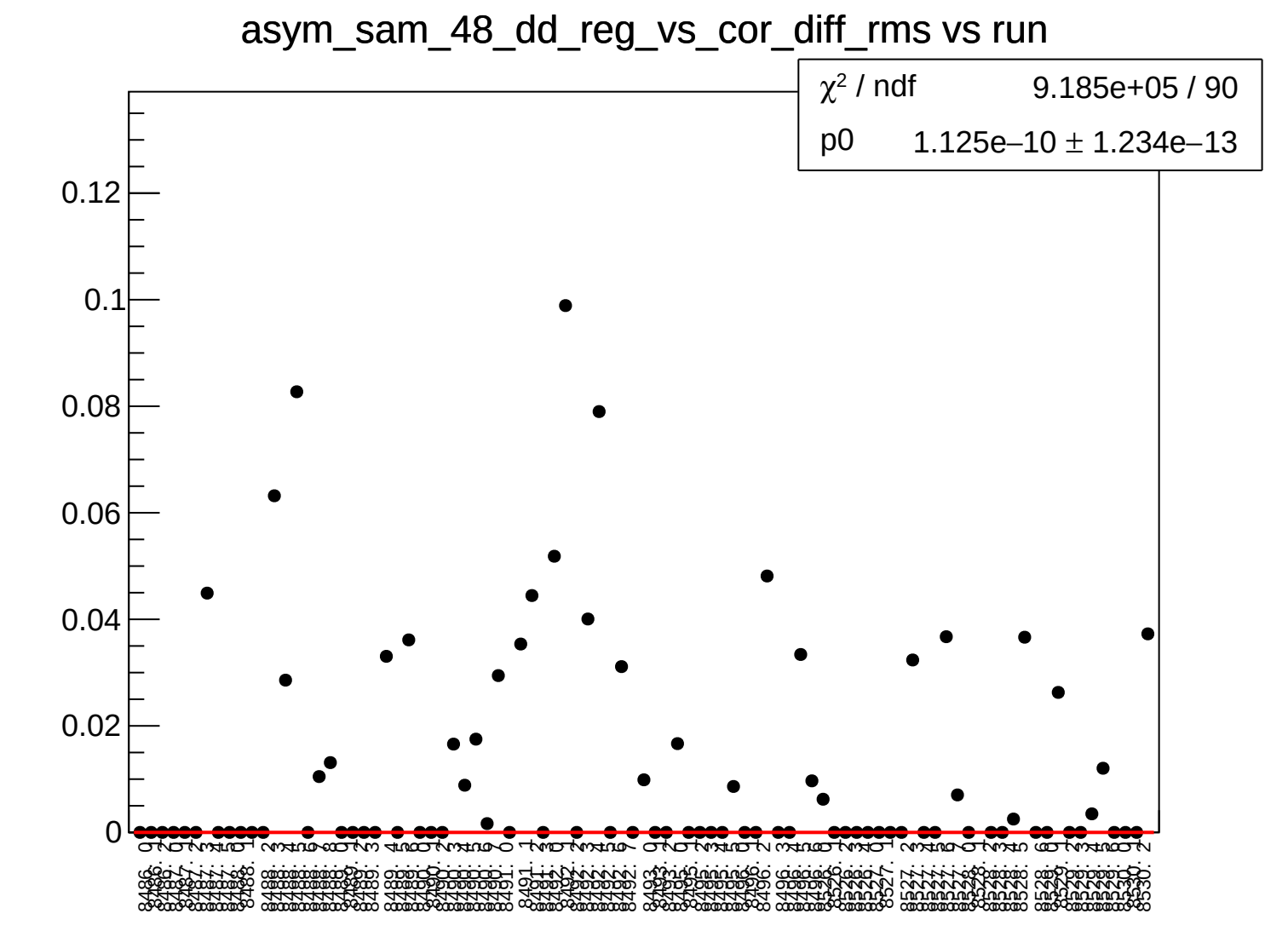

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 8536 / 90
p0 1725 ± 1.308
2100
2000
1900
1800
1700
1600
1500

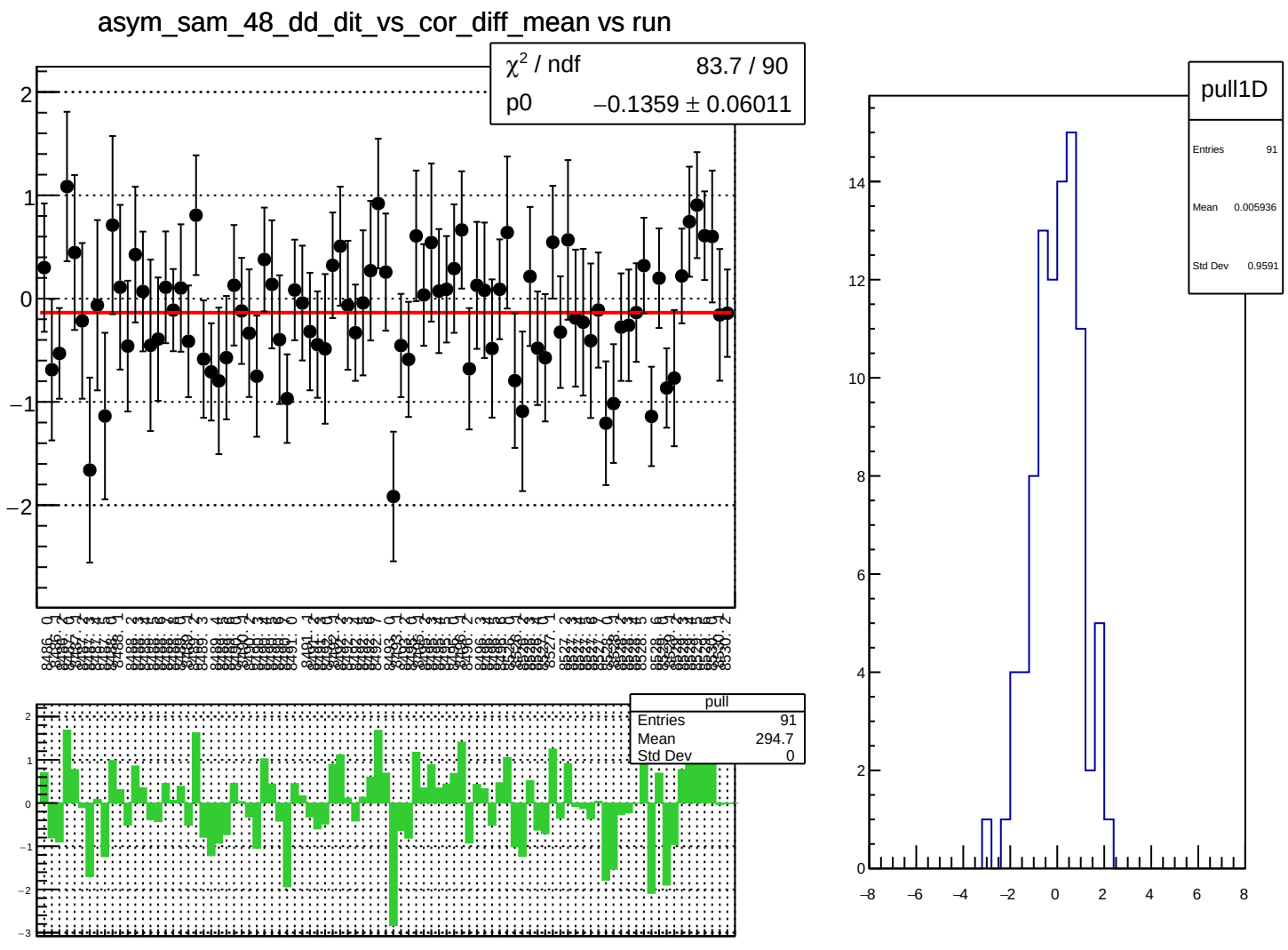

asym_sam_48_dd_mean vs run
χ² / ndf 70.88 / 90
p0 5654 ± 1801
pull
Entries 91
Mean 197.7
Std Dev 0

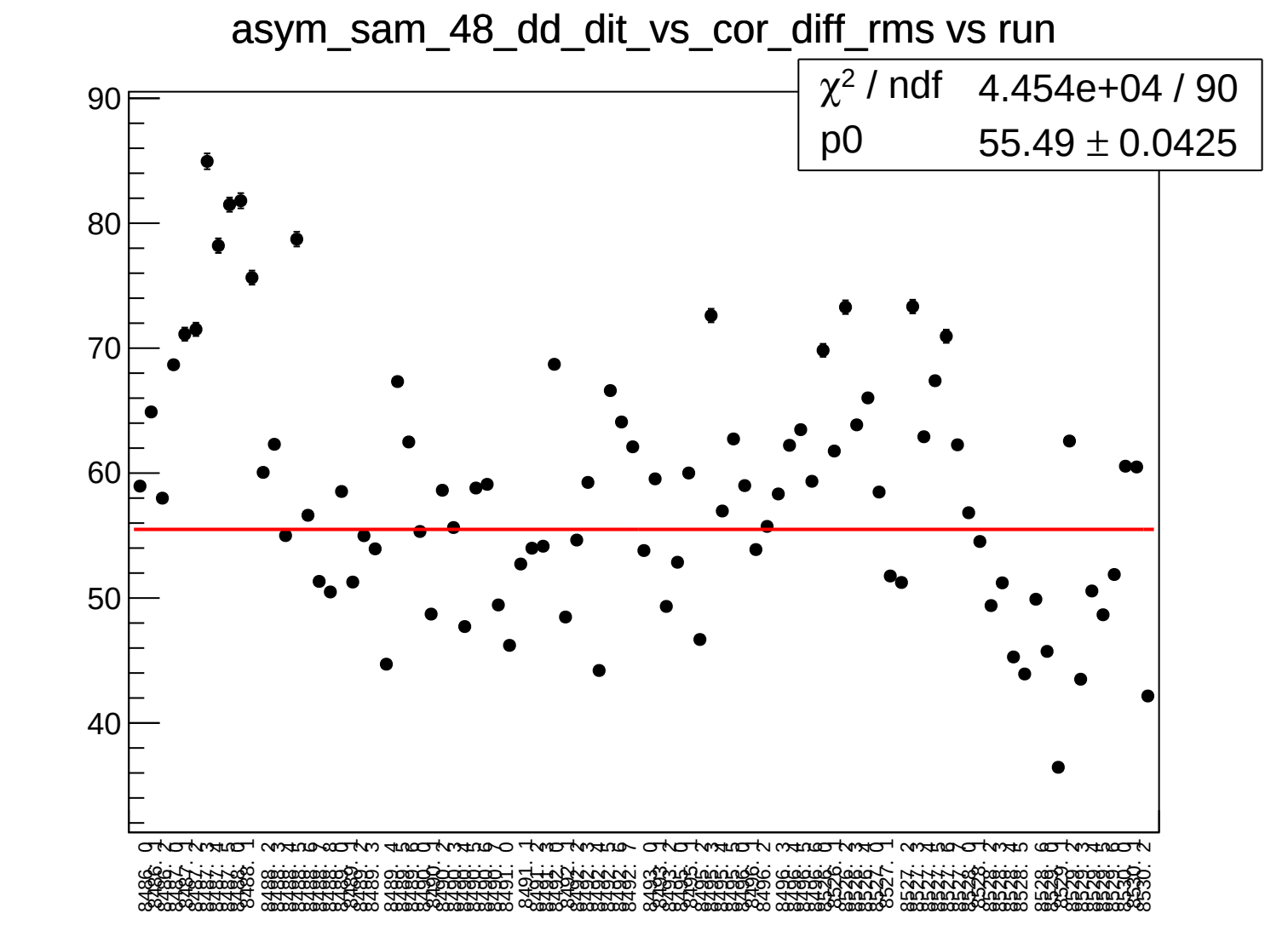

pull1D
Entries 91
Mean −0.01419
Std Dev 0.8824

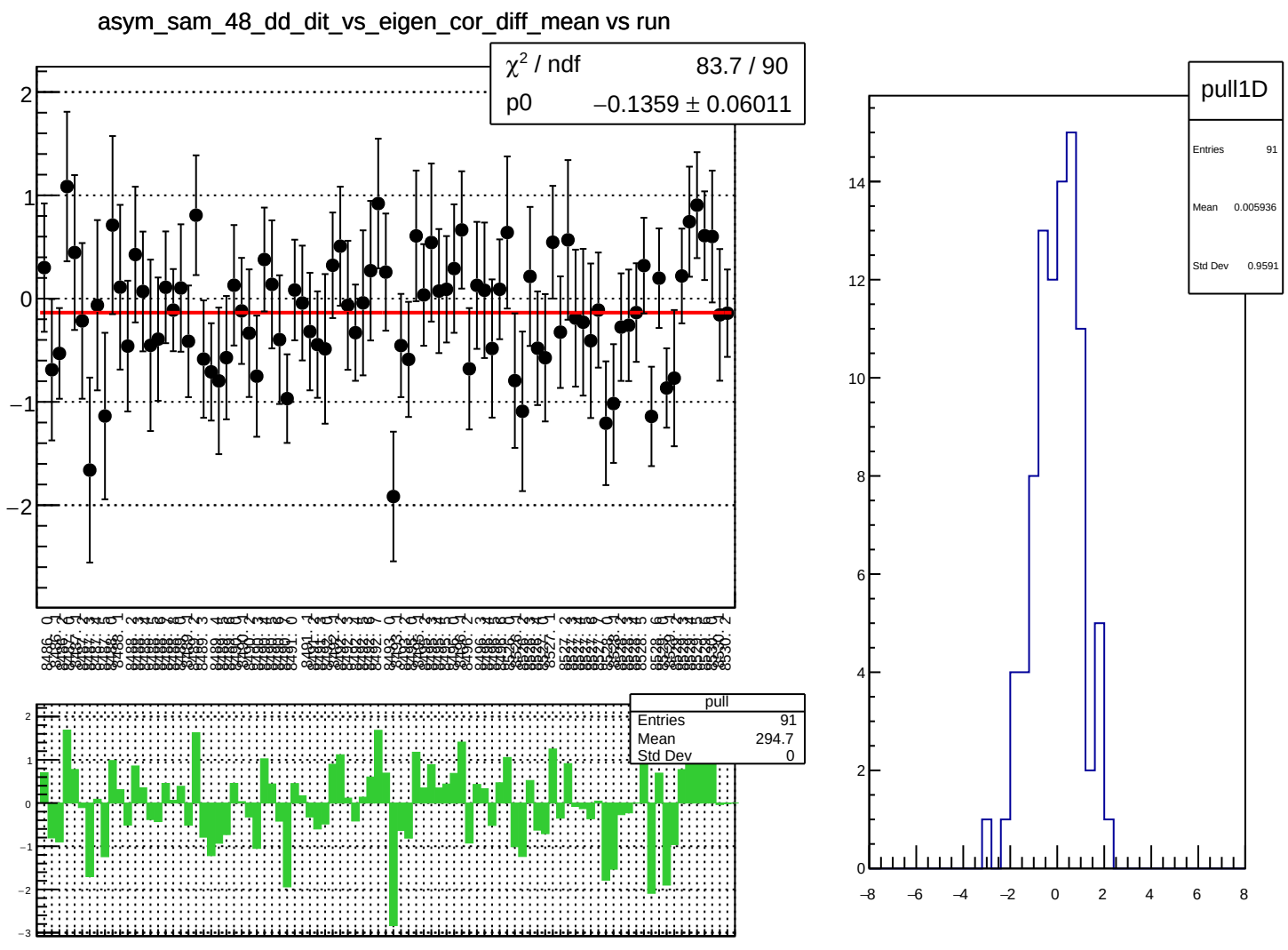

asym_sam_48_dd_rms vs run
χ² / ndf 8878 / 90
p0 1680 ± 1.274
2000
1900
1800
1700
1600
1500
1400

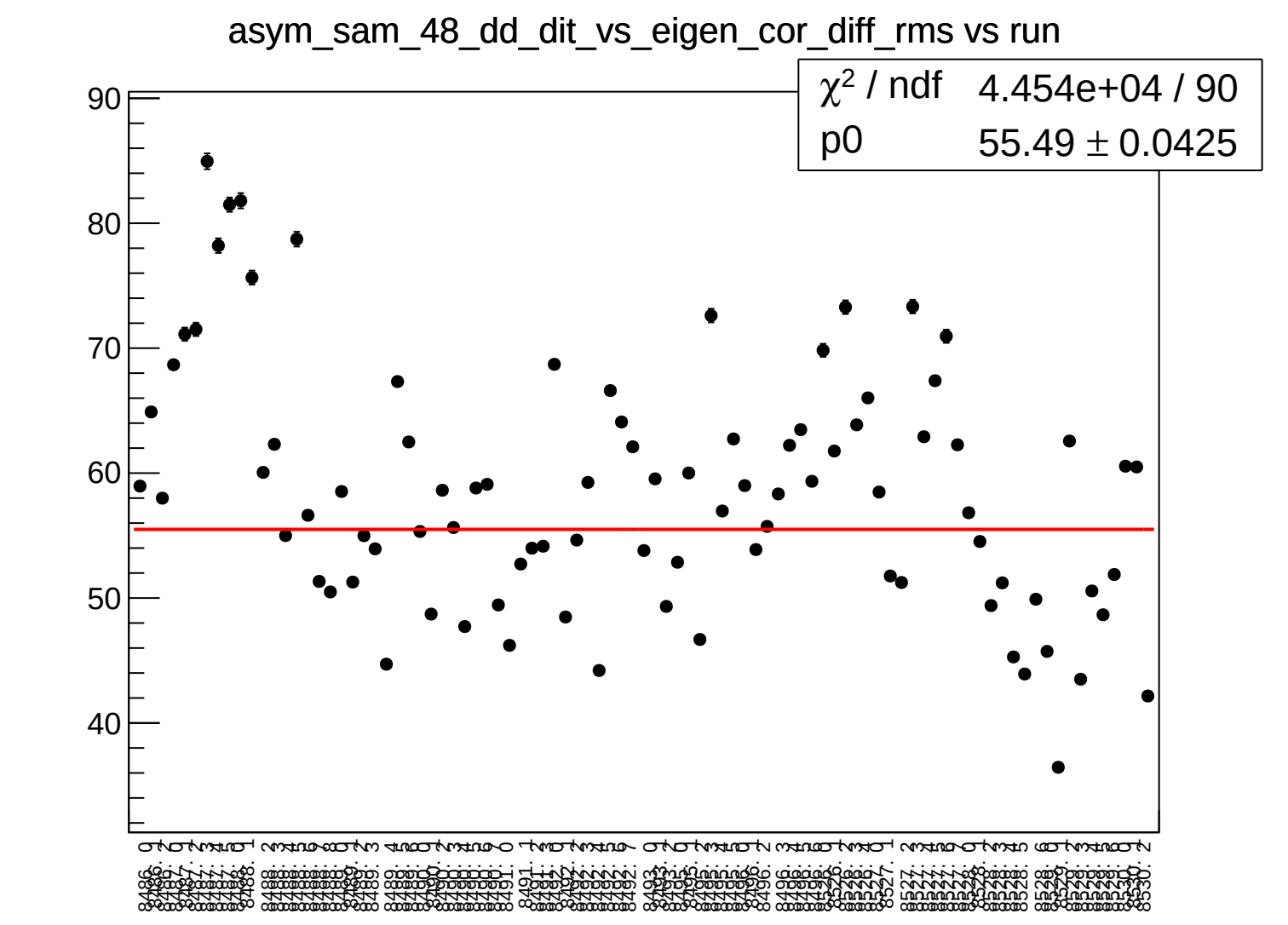

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 86.27 / 90
p0 −9.207e−14 ± 1.745e−13
0.004
0.003
0.002
0.001
0
−0.001
−0.002
pull
Entries 91
Mean 15.28
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean 0.08684
Std Dev 0.9698
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

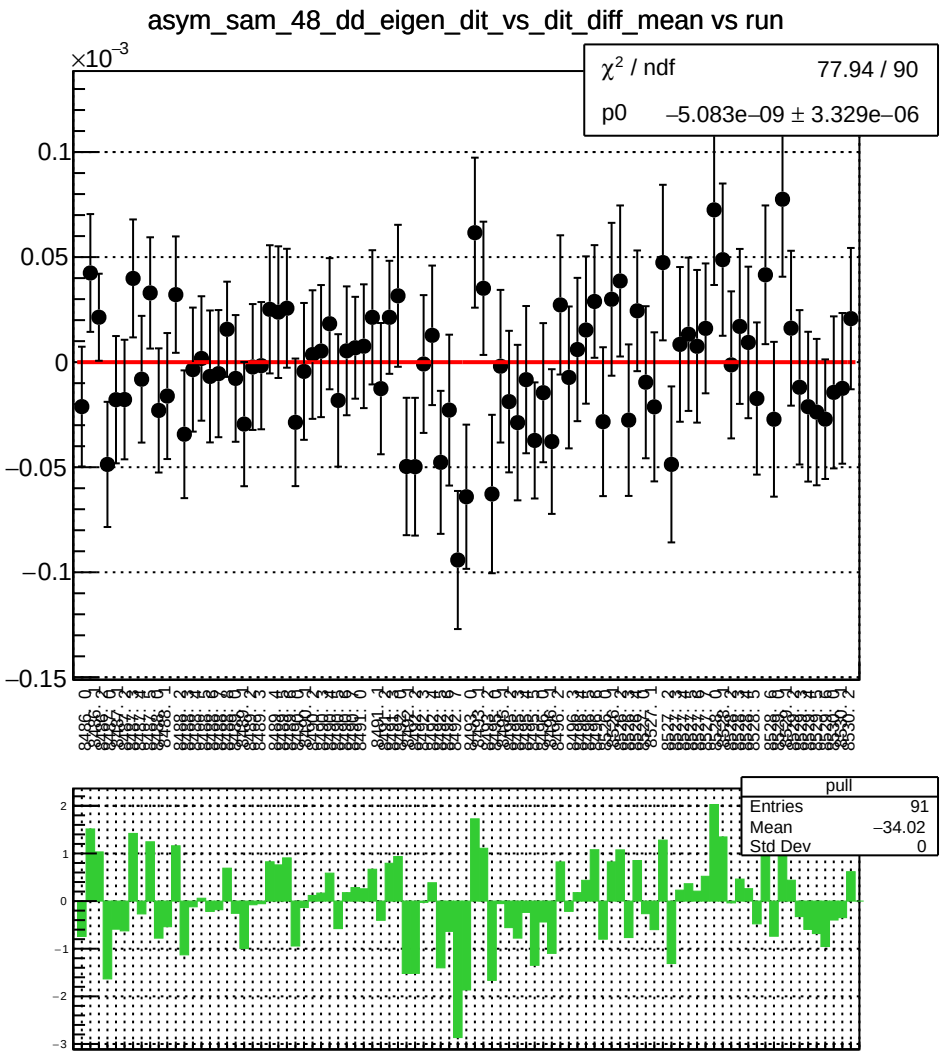

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.185e+05 / 90
p0 1.125e−10 ± 1.234e−13
0.12
0.1
0.08
0.06
0.04
0.02
0

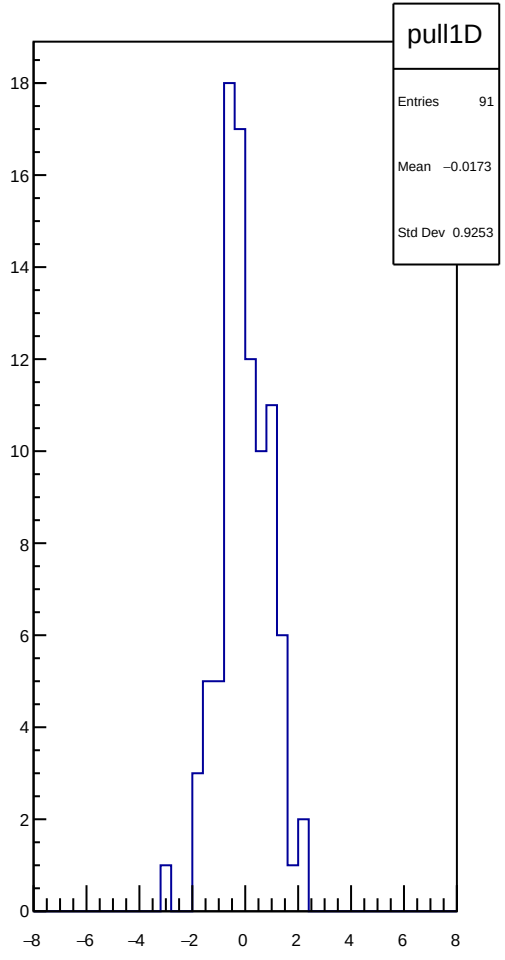

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 83.7 / 90
p0 −0.1359 ± 0.06011
pull
Entries 91
Mean 294.7
Std Dev 0
pull1D
Entries 91
Mean 0.005936
Std Dev 0.9591

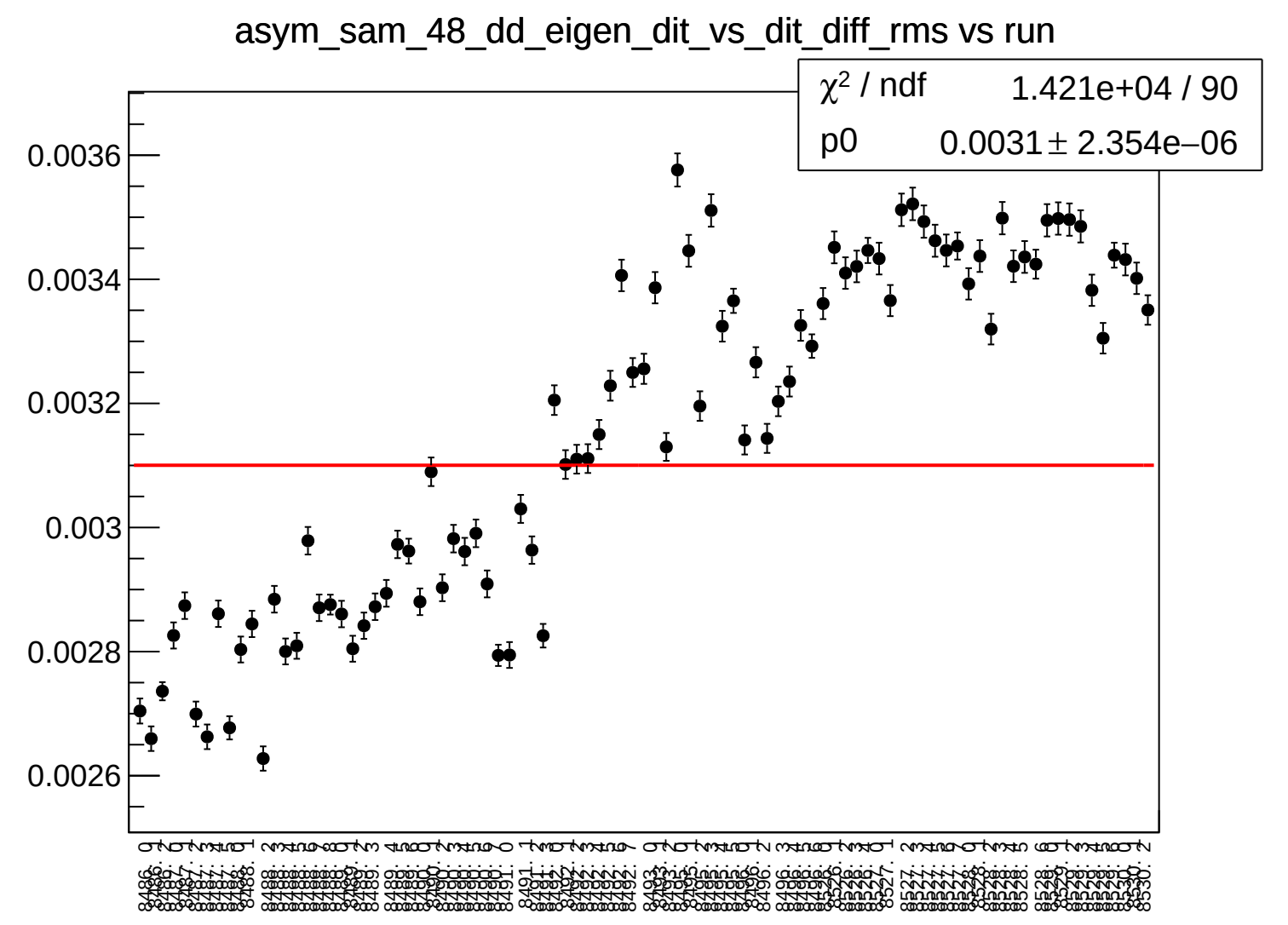

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.454e+04 / 90
p0 55.49 ± 0.0425
90
80
70
60
50
40

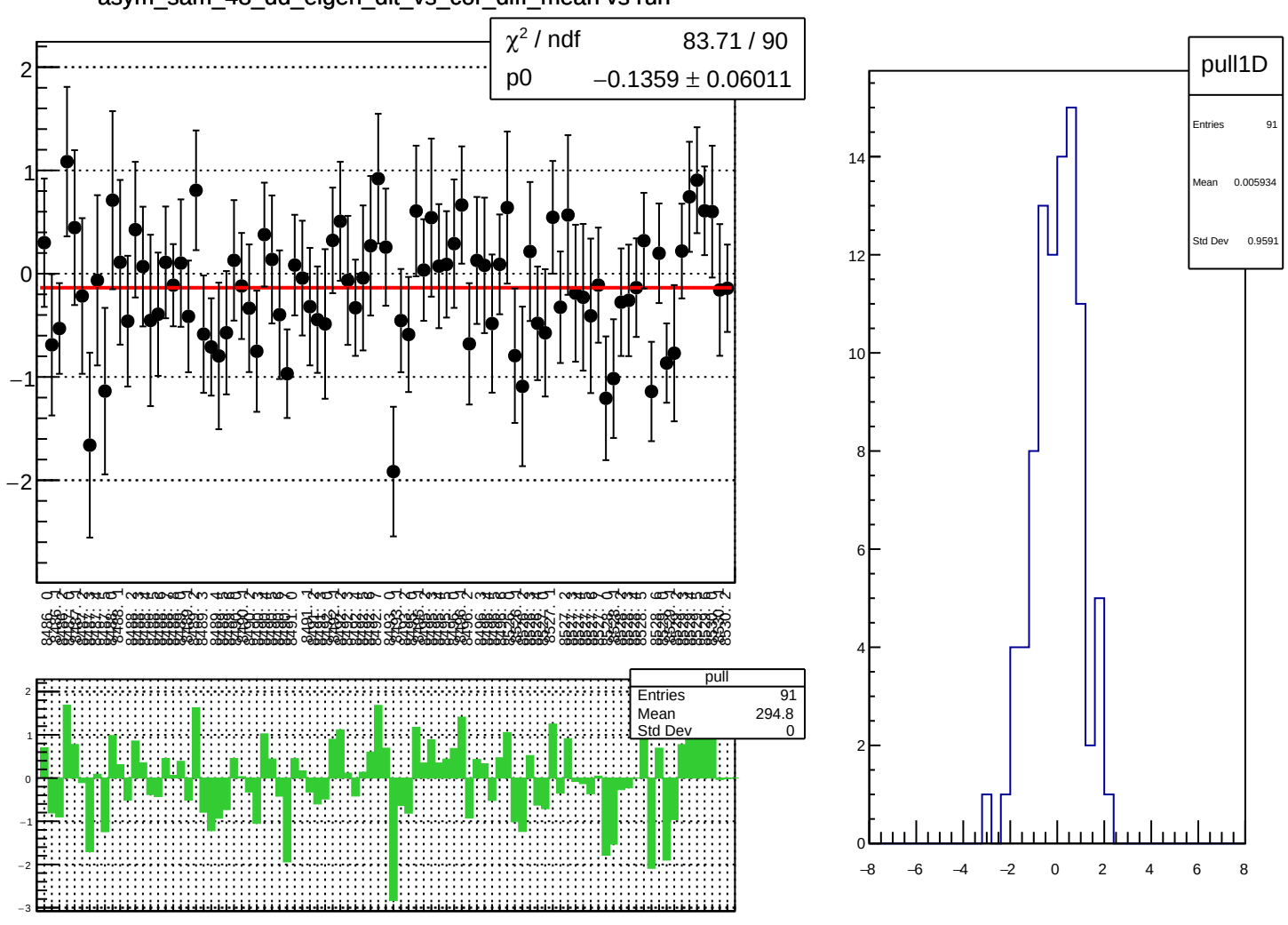

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.7 / 90
p0 −0.1359 ± 0.06011
pull
Entries 91
Mean 294.7
Std Dev 0
pull1D
Entries 91
Mean 0.005936
Std Dev 0.9591

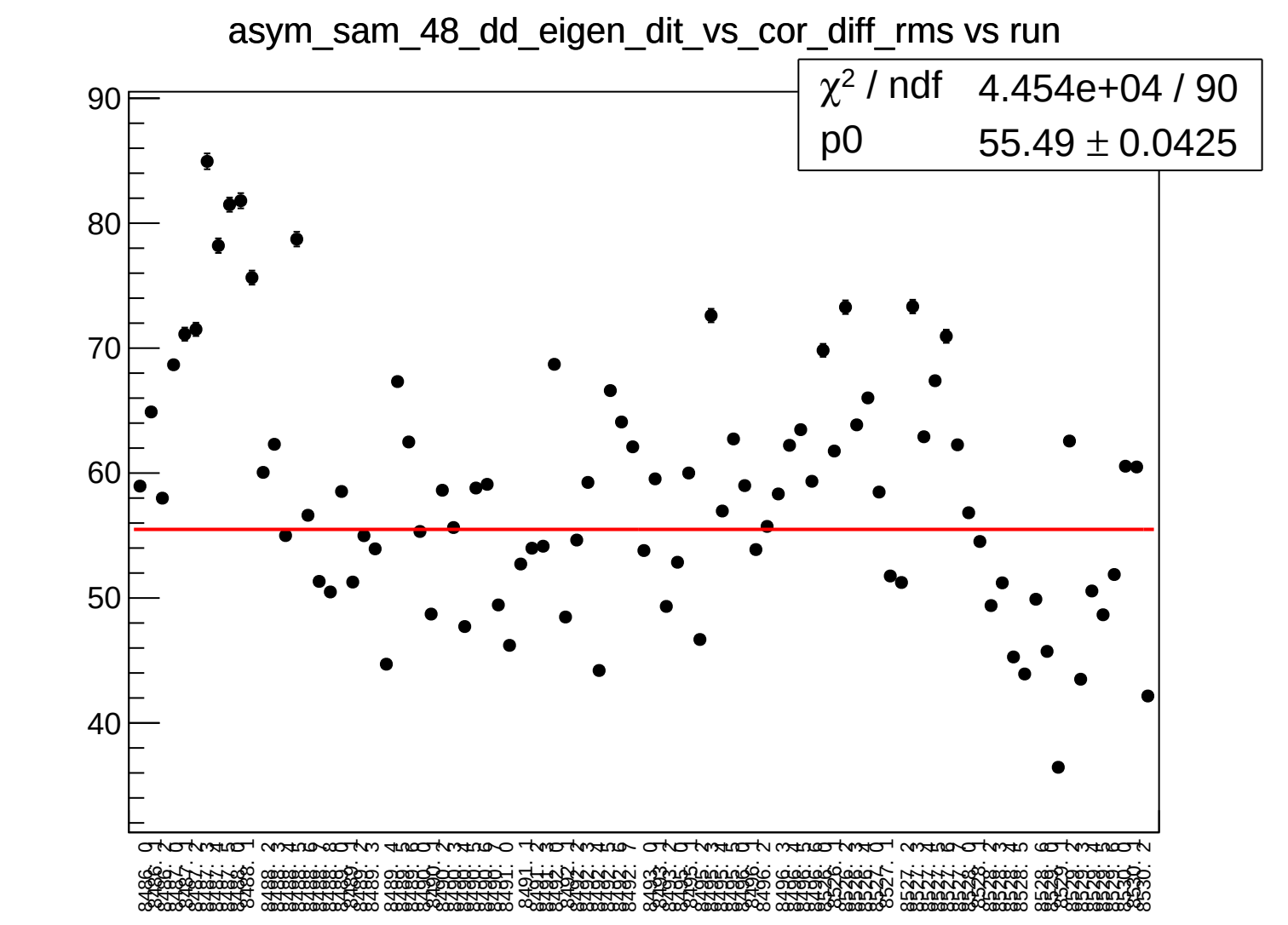

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.454e+04 / 90
p0 55.49 ± 0.0425
90
80
70
60
50
40

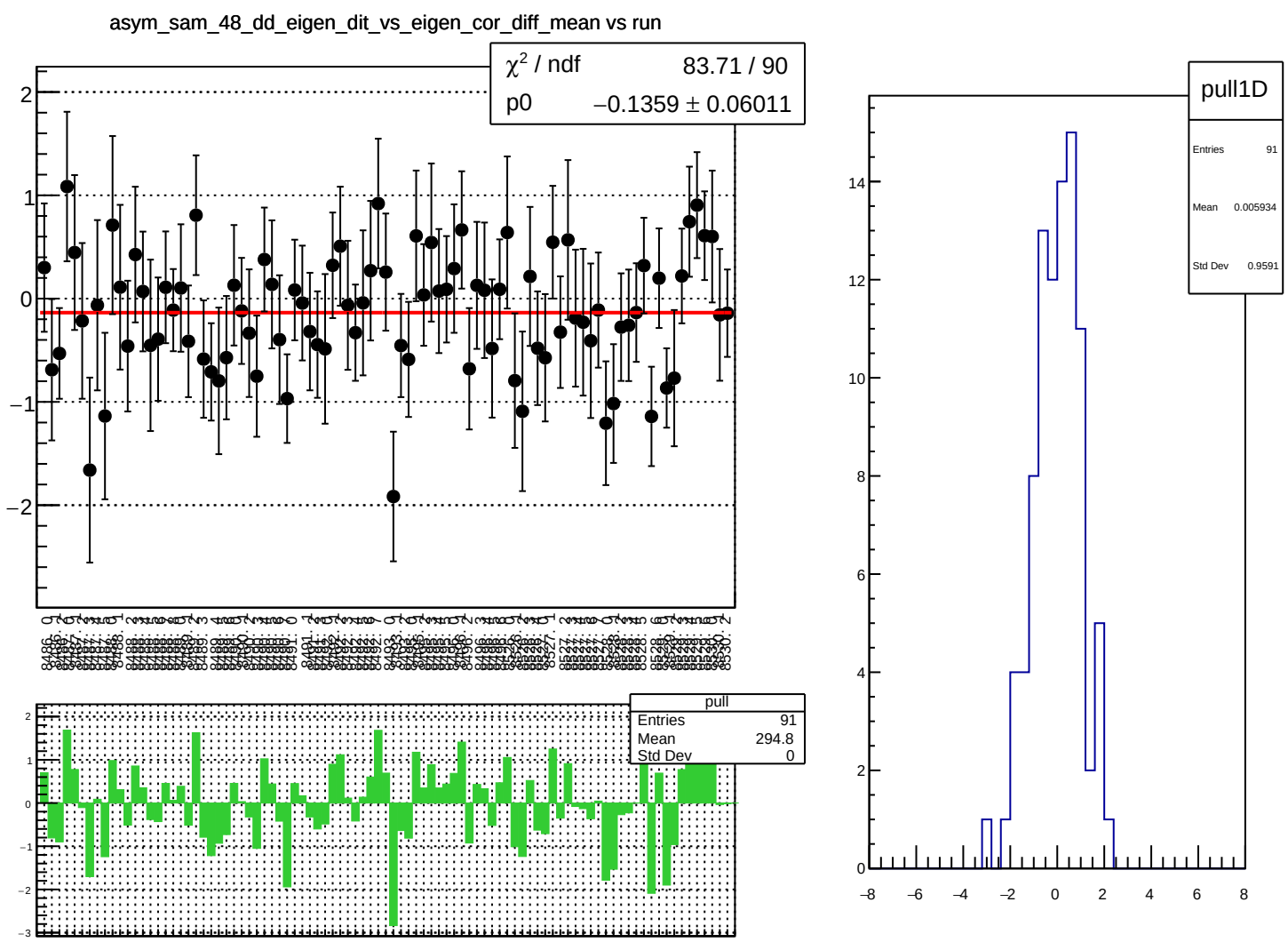

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.94 / 90
p0 −5.083e−09 ± 3.329e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 91
Mean −34.02
Std Dev 0
2
1
0
−1
−2
−3

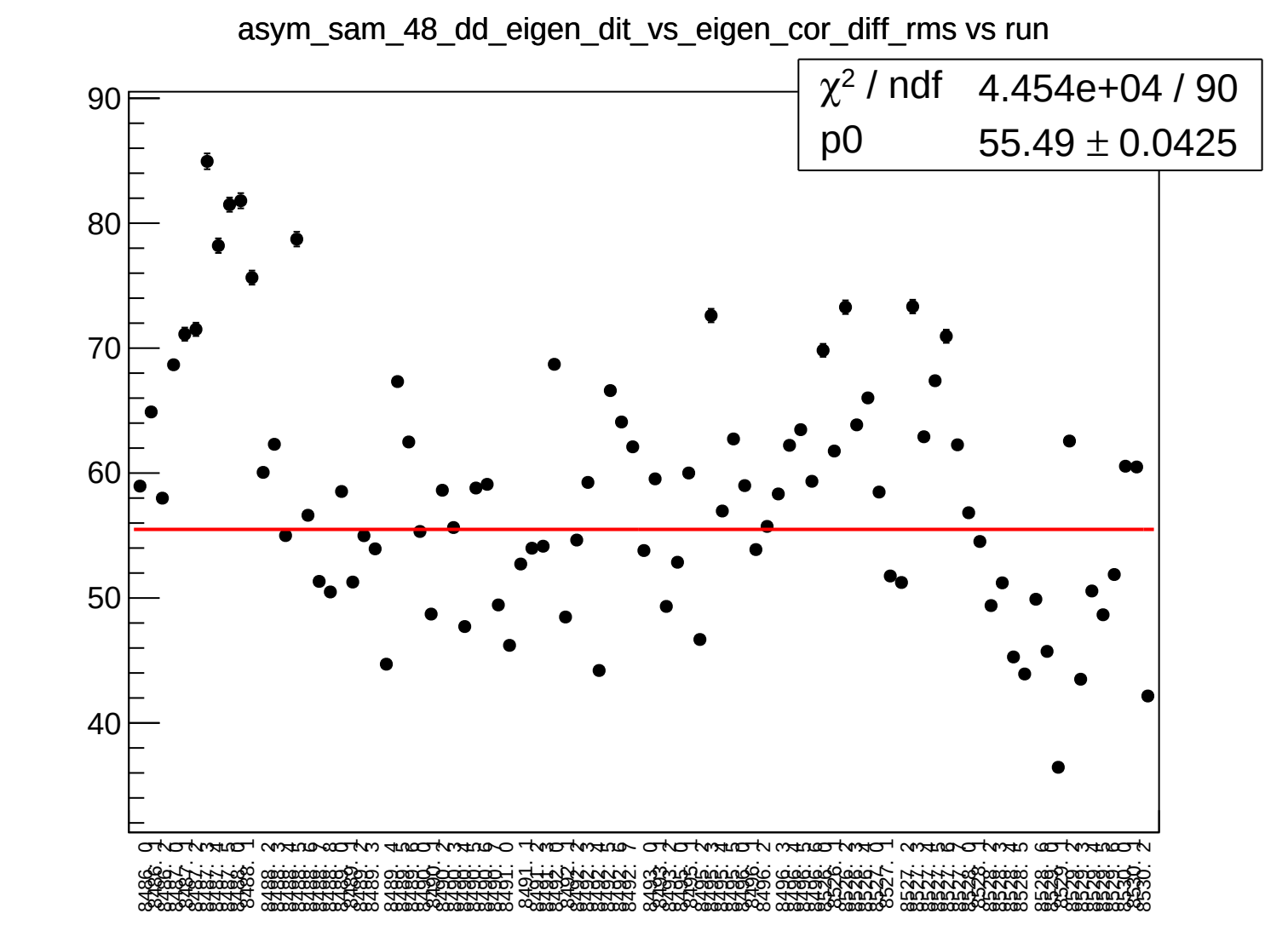

pull1D
Entries 91
Mean −0.0173
Std Dev 0.9253
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

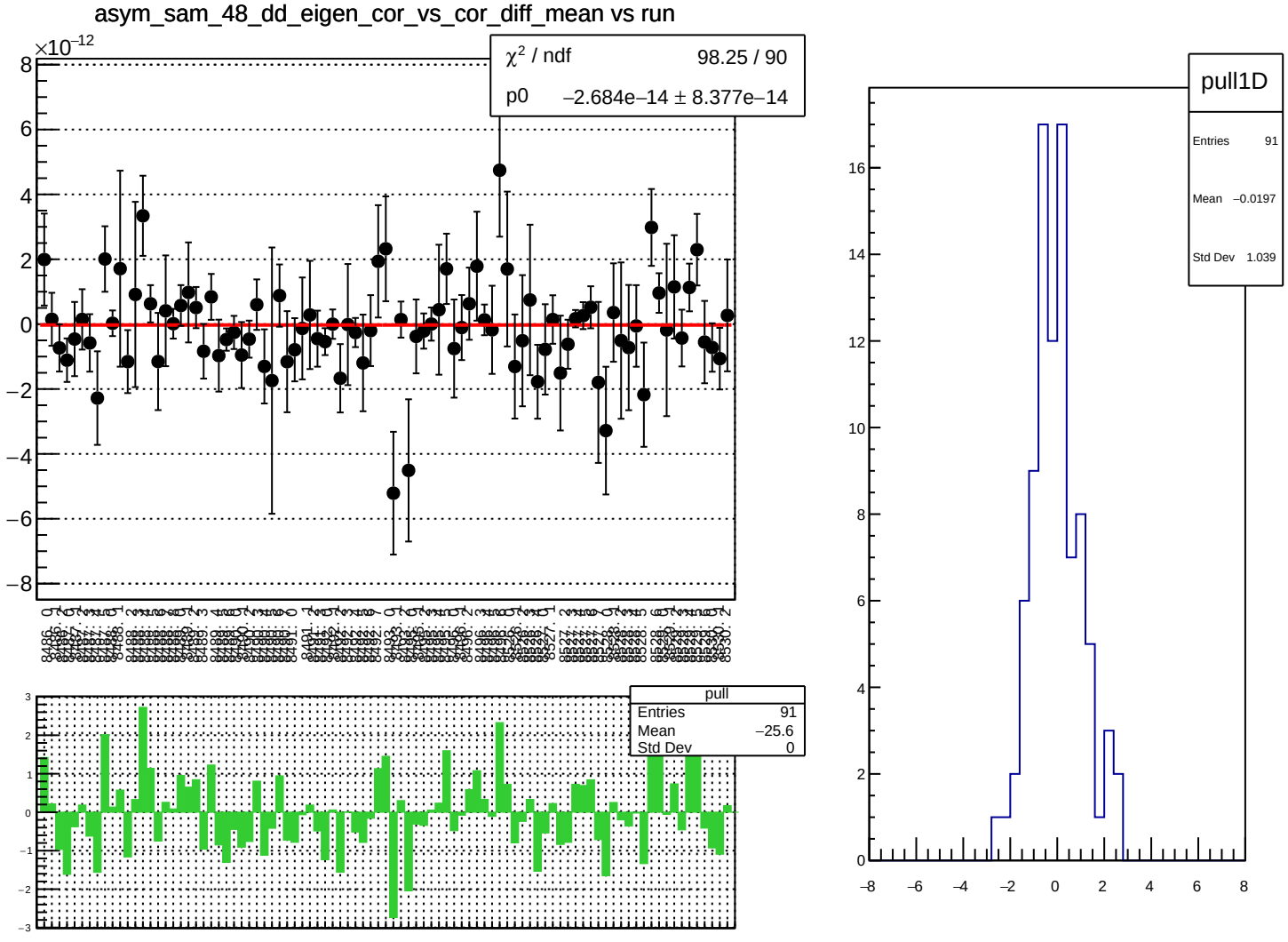

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.421e+04 / 90
p0 0.0031 ± 2.354e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

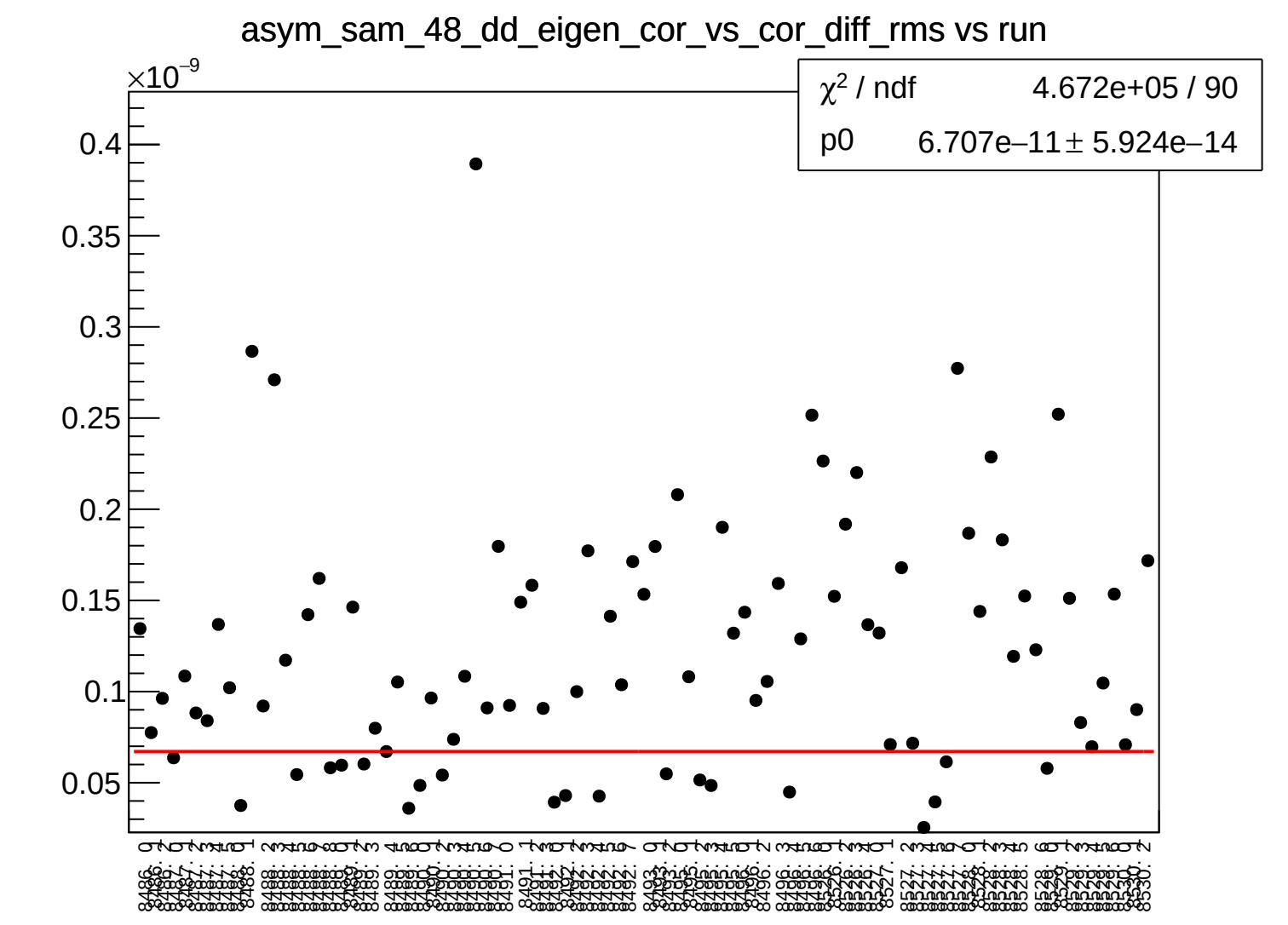

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.71 / 90
p0 −0.1359 ± 0.06011
pull
Entries 91
Mean 294.8
Std Dev 0
pull1D
Entries 91
Mean 0.005934
Std Dev 0.9591

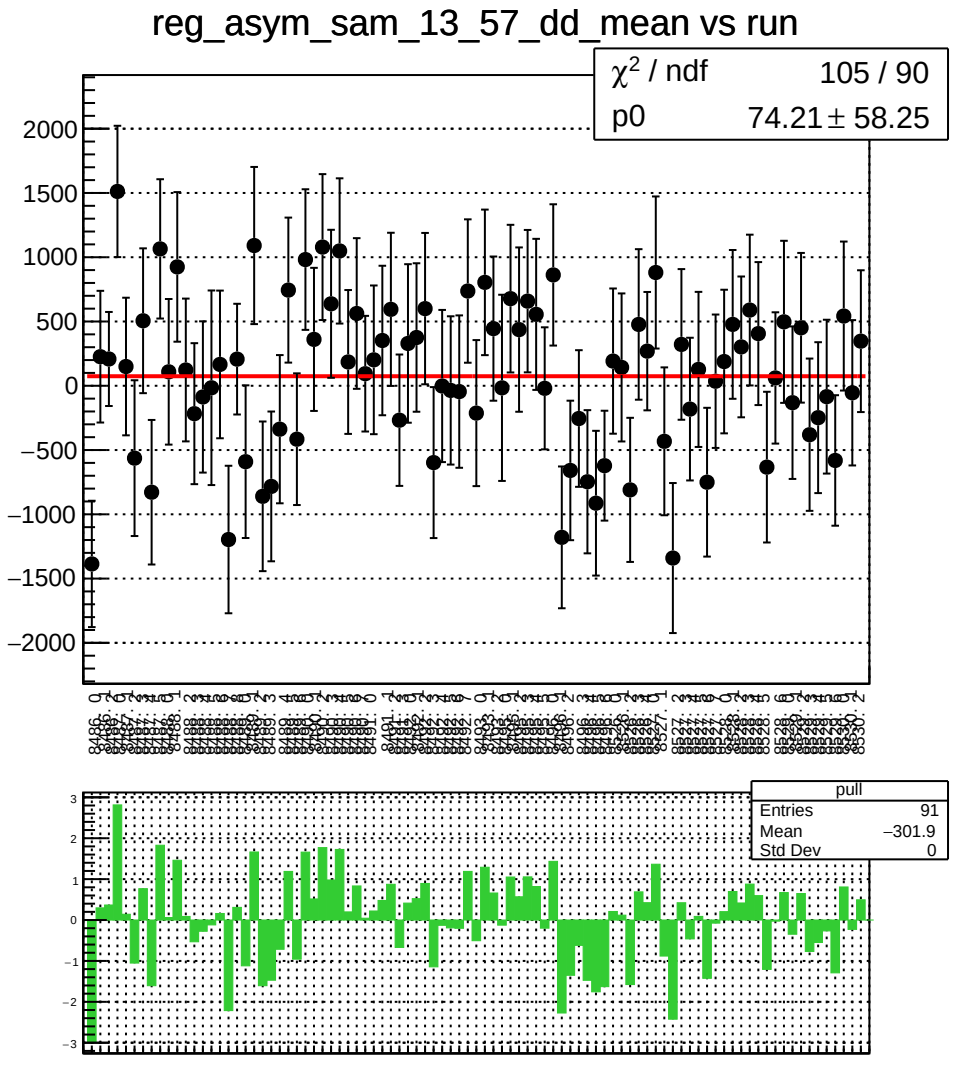

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.454e+04 / 90
p0 55.49 ± 0.0425
90
80
70
60
50
40

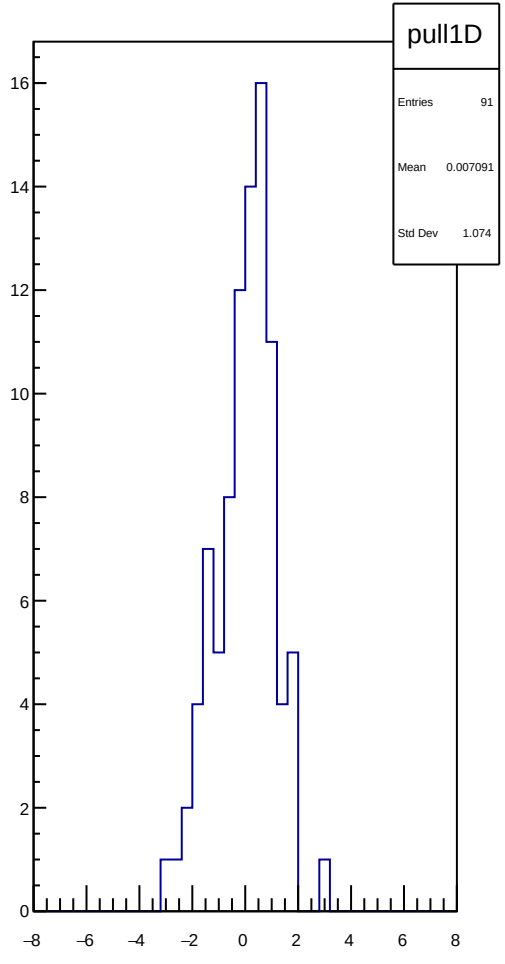

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.71 / 90
p0 −0.1359 ± 0.06011
pull
Entries 91
Mean 294.8
Std Dev 0
pull1D
Entries 91
Mean 0.005934
Std Dev 0.9591

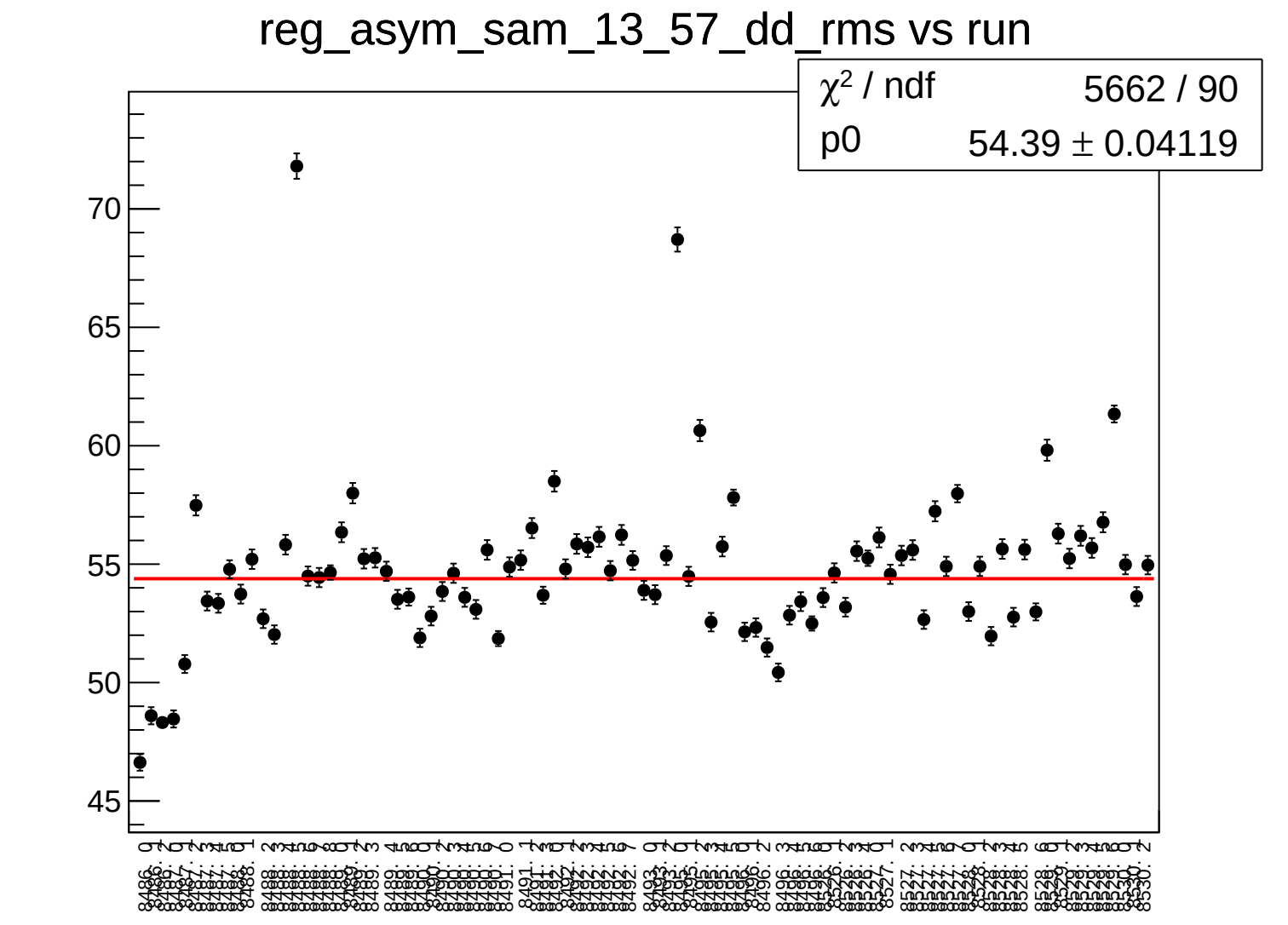

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.454e+04 / 90
p0 55.49 ± 0.0425
90
80
70
60
50
40

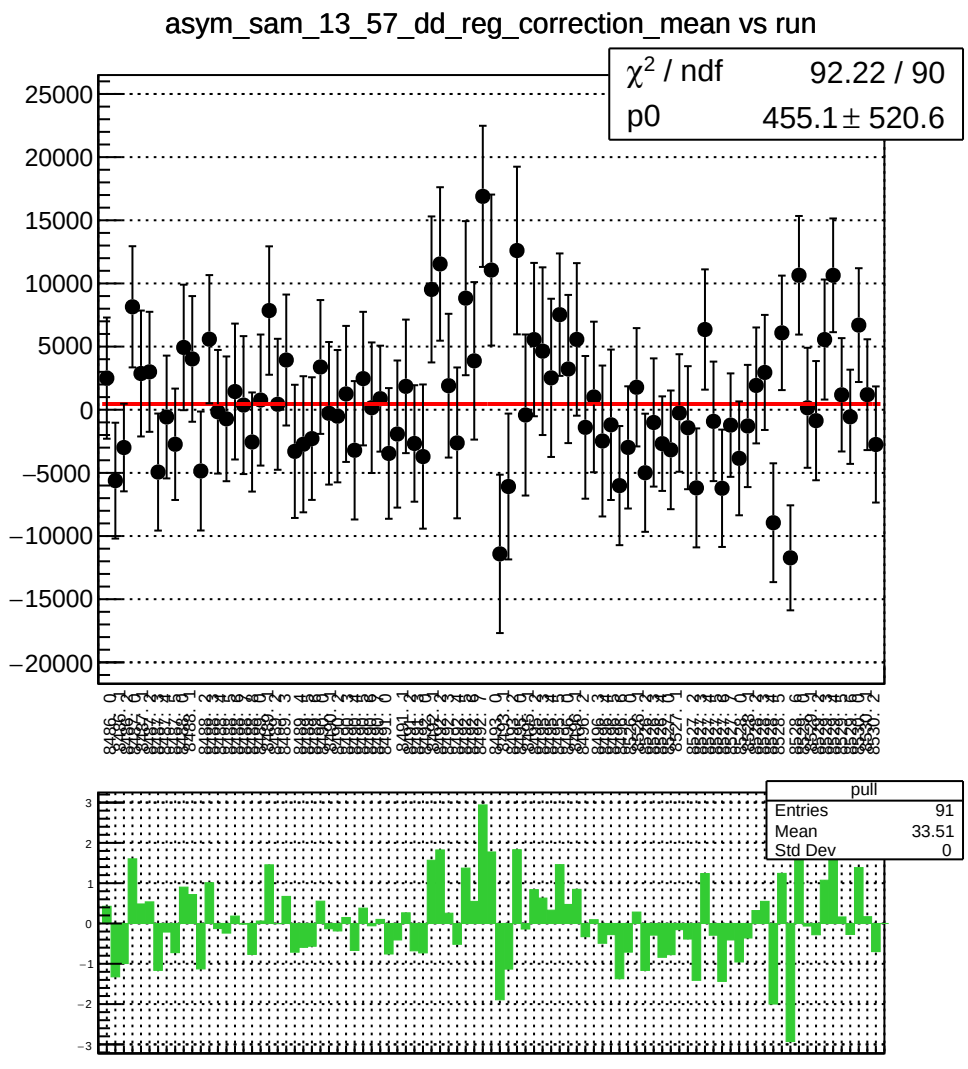

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.25 / 90
p0 −2.684e−14 ± 8.377e−14
pull
Entries 91
Mean −25.6
Std Dev 0
pull1D
Entries 91
Mean −0.0197
Std Dev 1.039

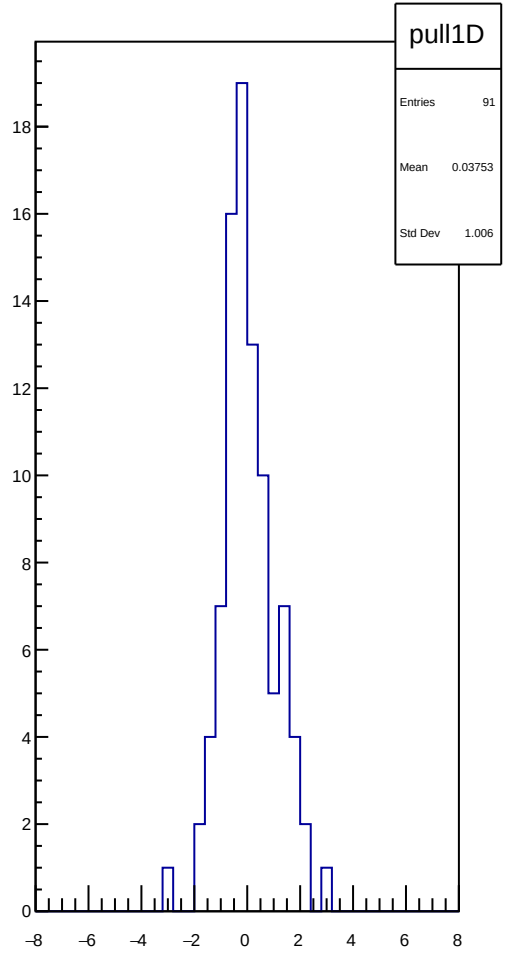

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.672e+05 / 90
p0 6.707e−11 ± 5.924e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

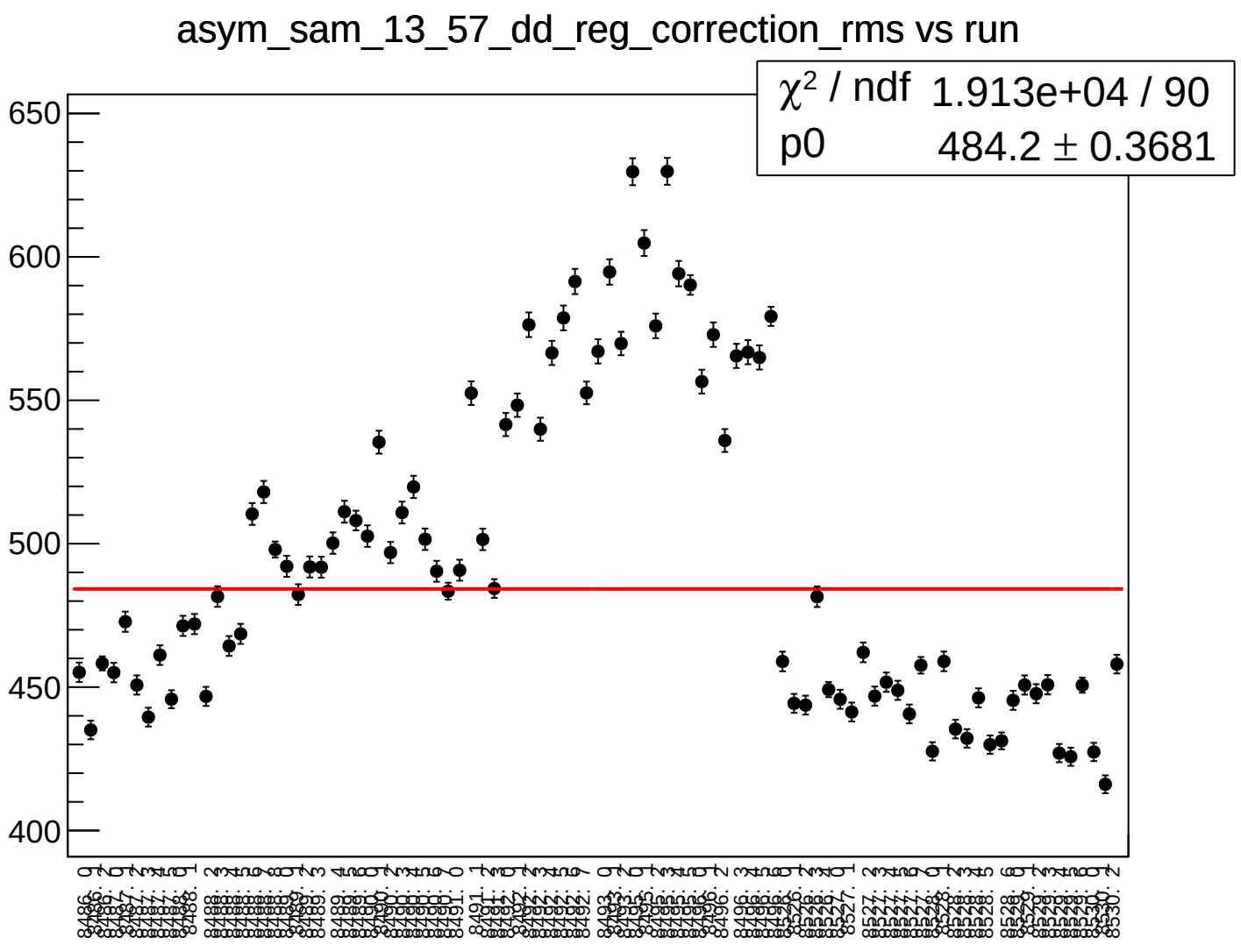

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 105 / 90
p0 74.21 ± 58.25
2000
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 91
Mean −301.9
Std Dev 0
3
2
1
0
−1
−2
−3

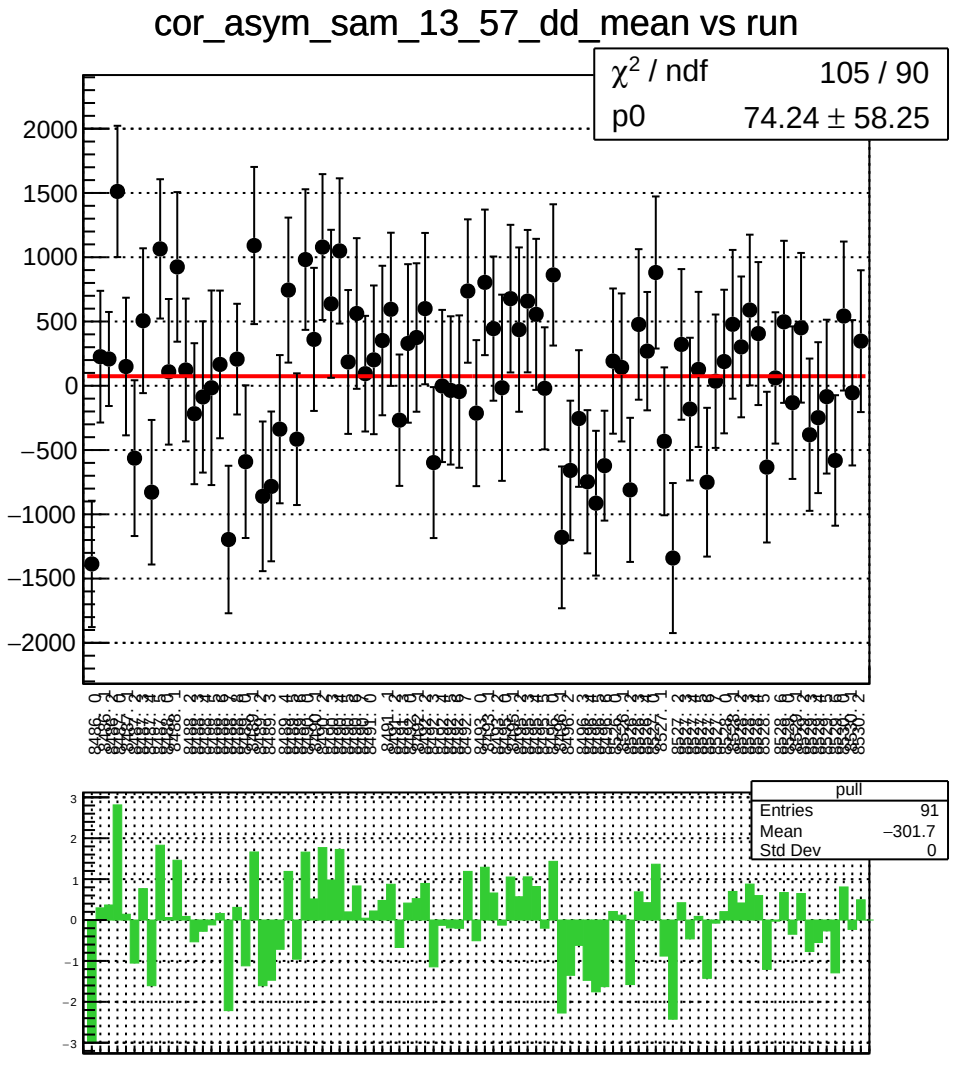

pull1D
Entries 91
Mean 0.007091
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

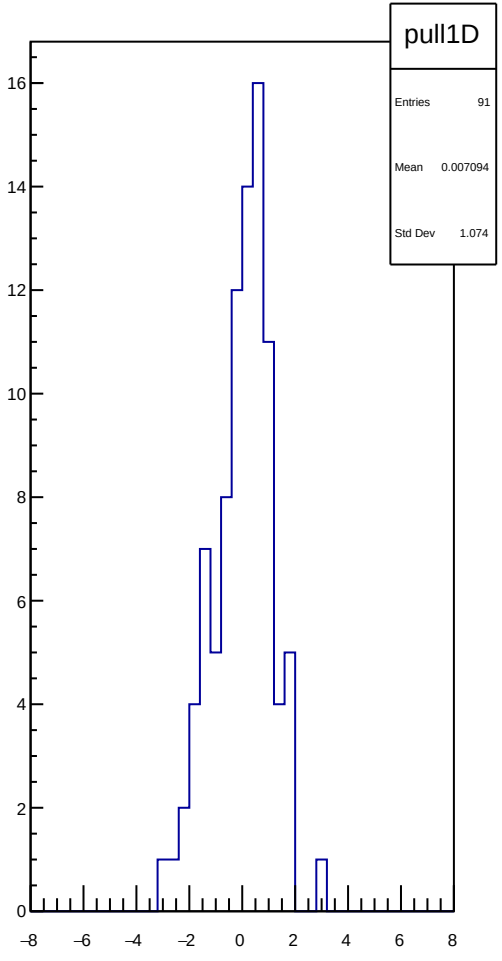

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 5662 / 90
p0 54.39 ± 0.04119
70
65
60
55
50
45

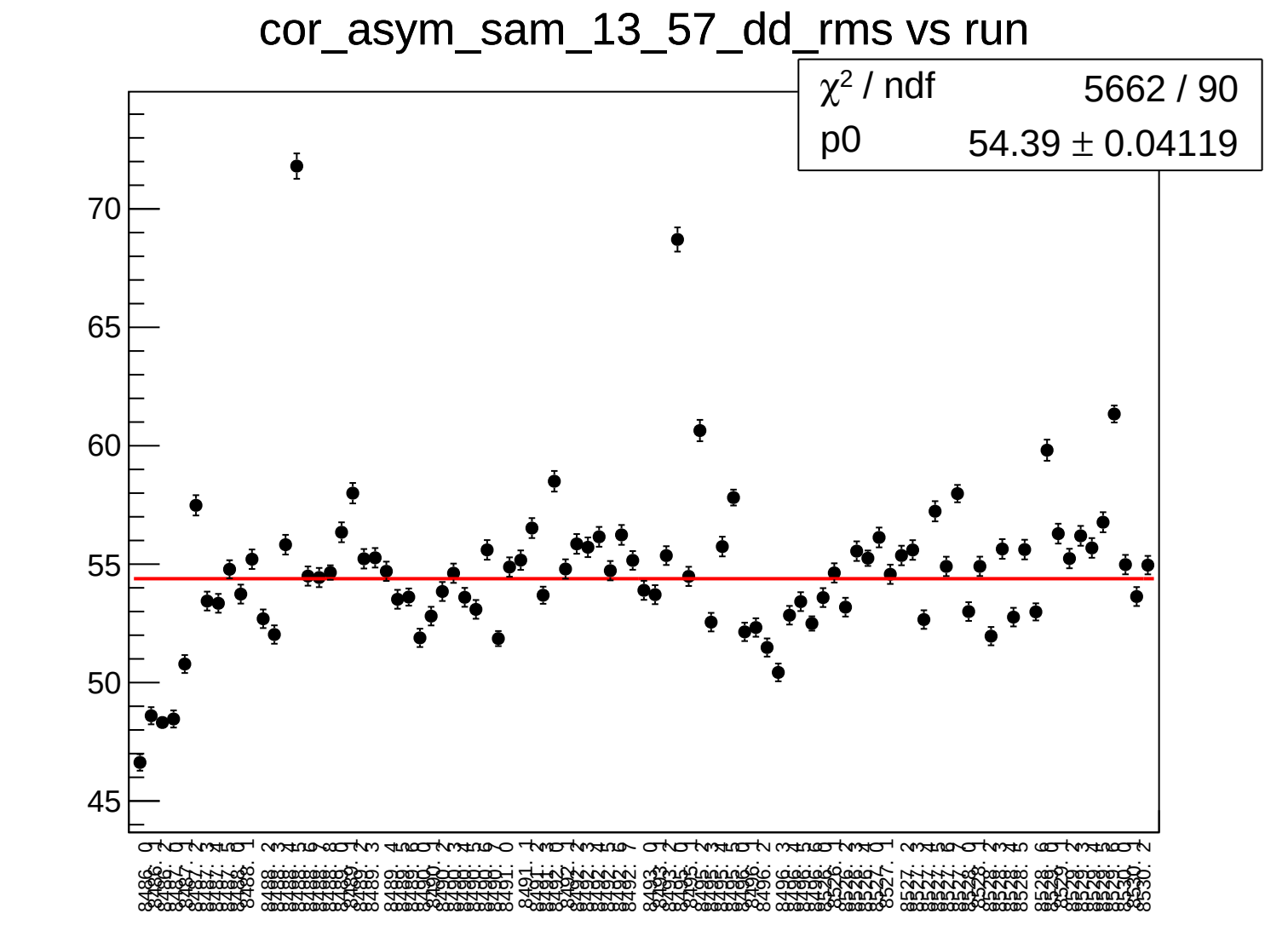

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 92.22 / 90
p0 455.1 ± 520.6
pull
Entries 91
Mean 33.51
Std Dev 0

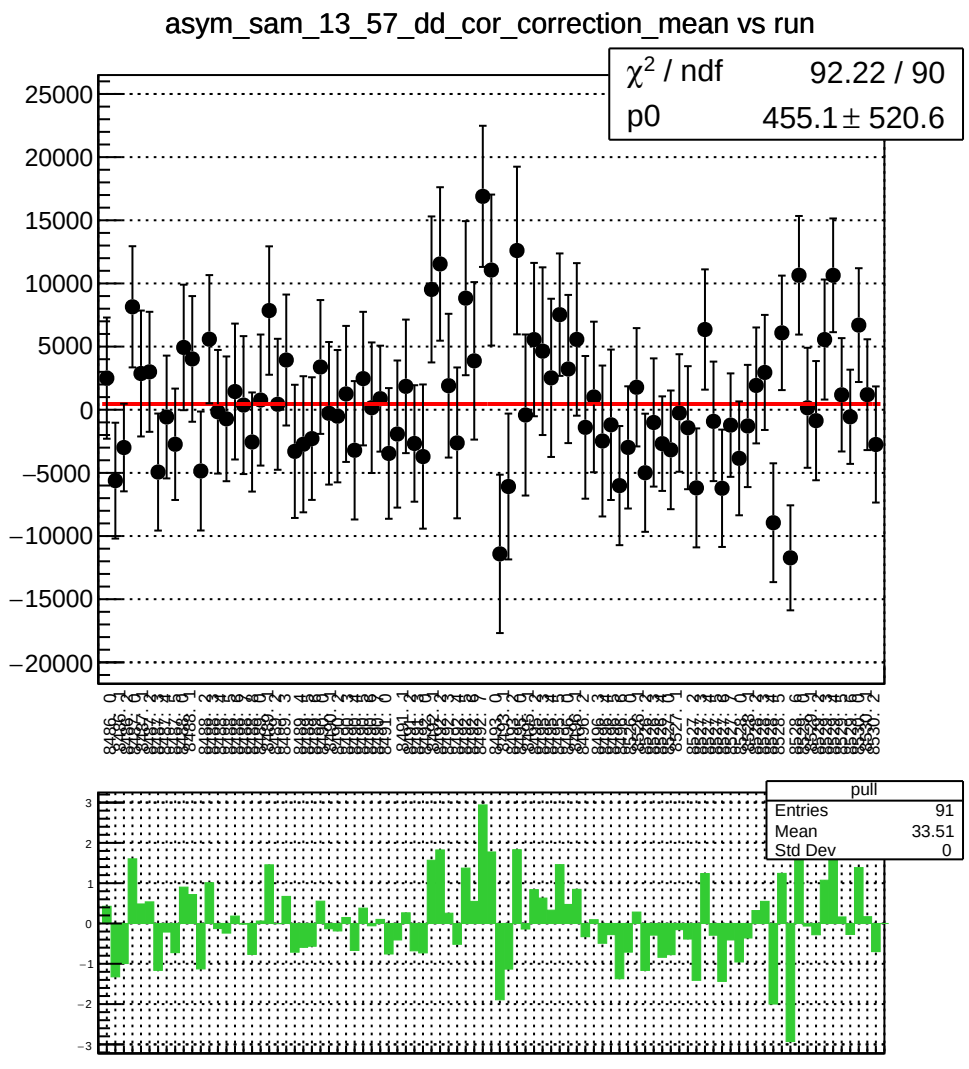

pull1D
Entries 91
Mean 0.03753
Std Dev 1.006

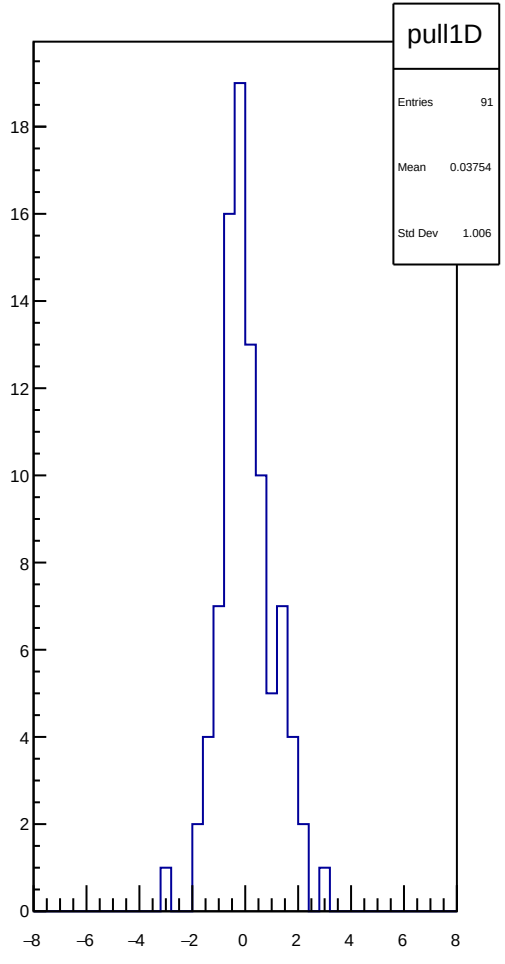

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 1.913e+04 / 90
p0 484.2 ± 0.3681
650
600
550
500
450
400

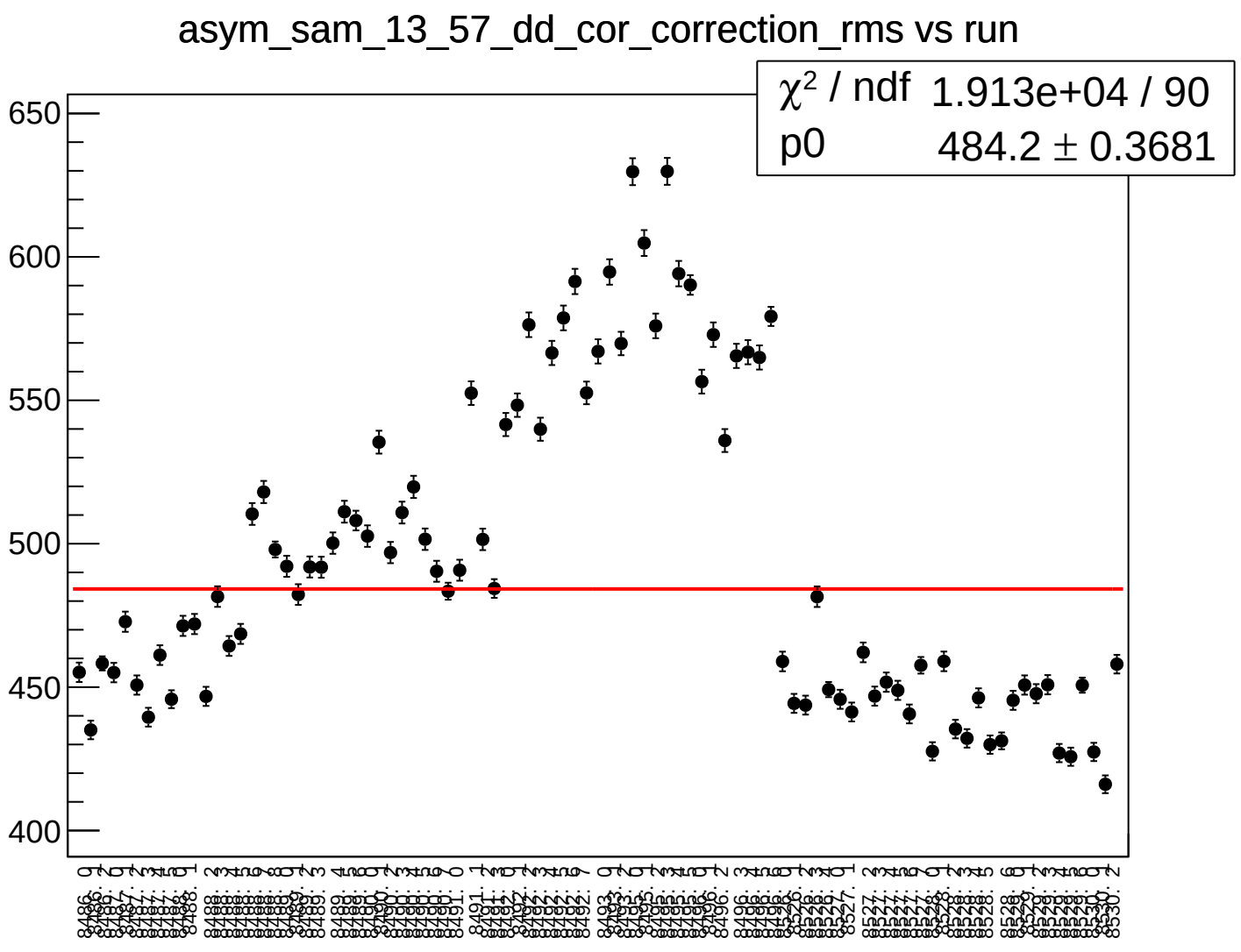

cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 105 / 90
p0 74.24 ± 58.25
pull
Entries 91
Mean −301.7
Std Dev 0

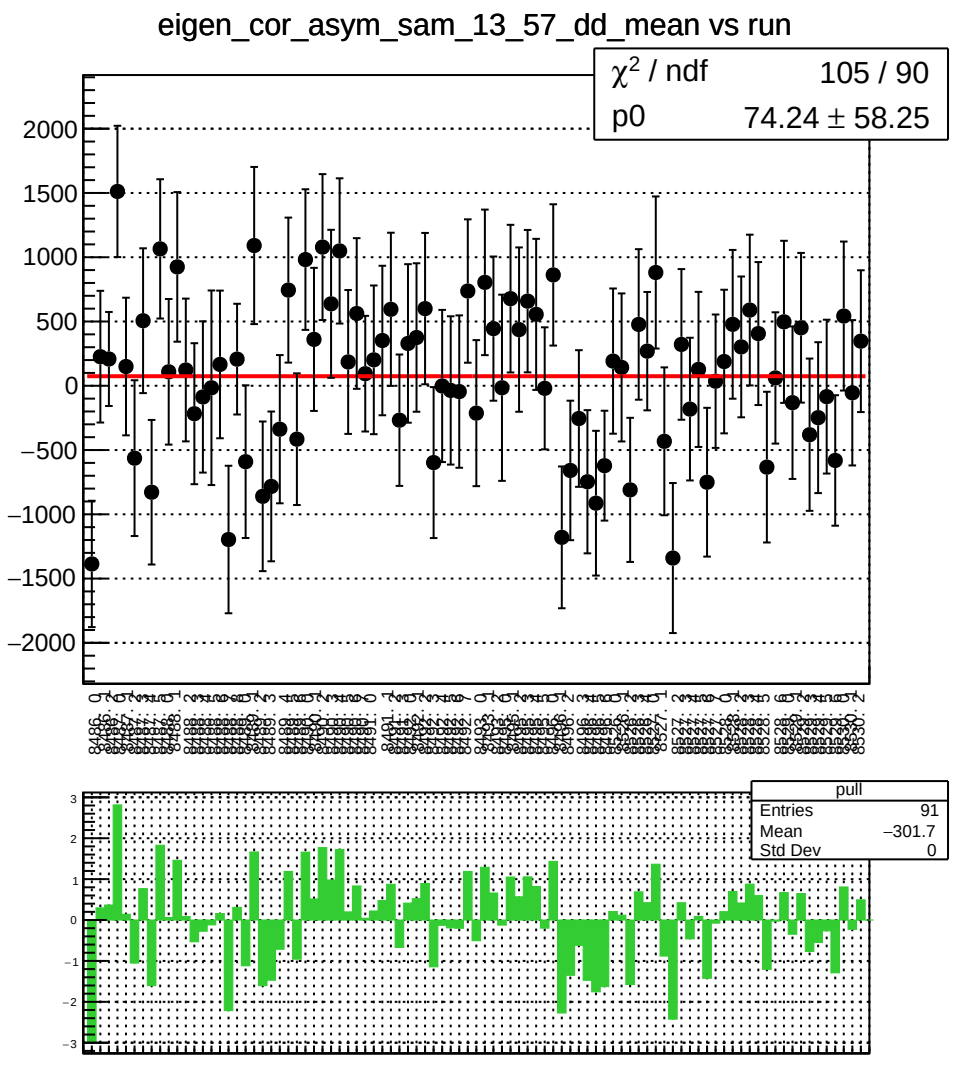

pull1D
Entries 91
Mean 0.007094
Std Dev 1.074

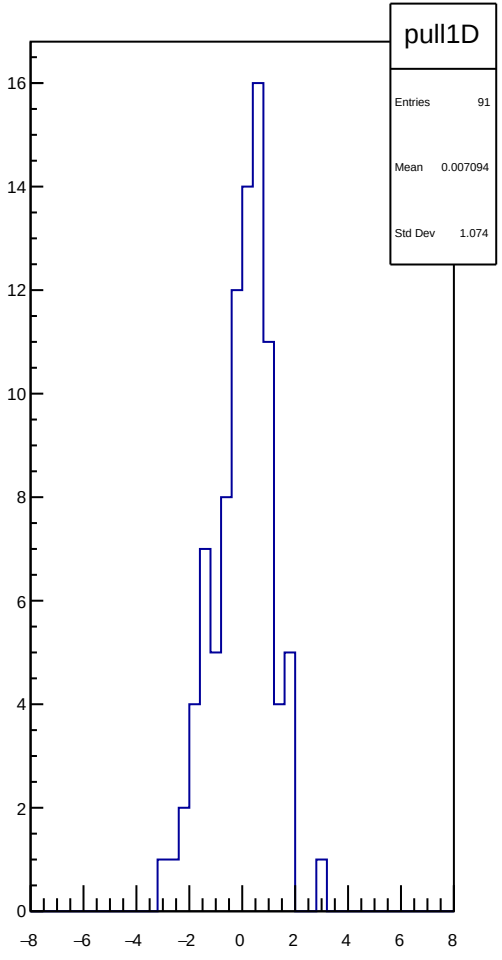

cor_asym_sam_13_57_dd_rms vs run
χ^2 / ndf 5662 / 90
p0 54.39 ± 0.04119
70
65
60
55
50
45

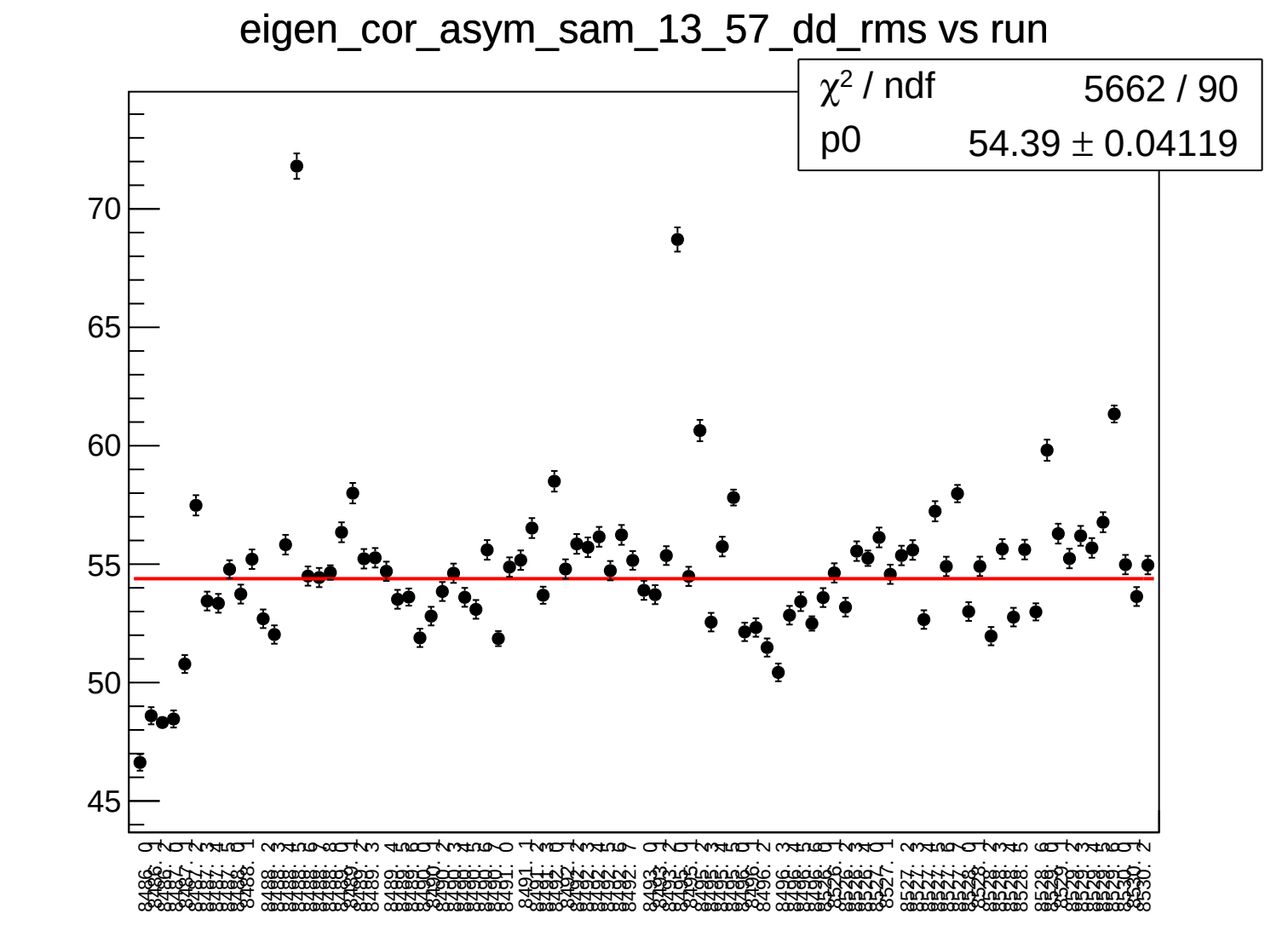

asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 92.22 / 90
p0 455.1 ± 520.6
pull
Entries 91
Mean 33.51
Std Dev 0

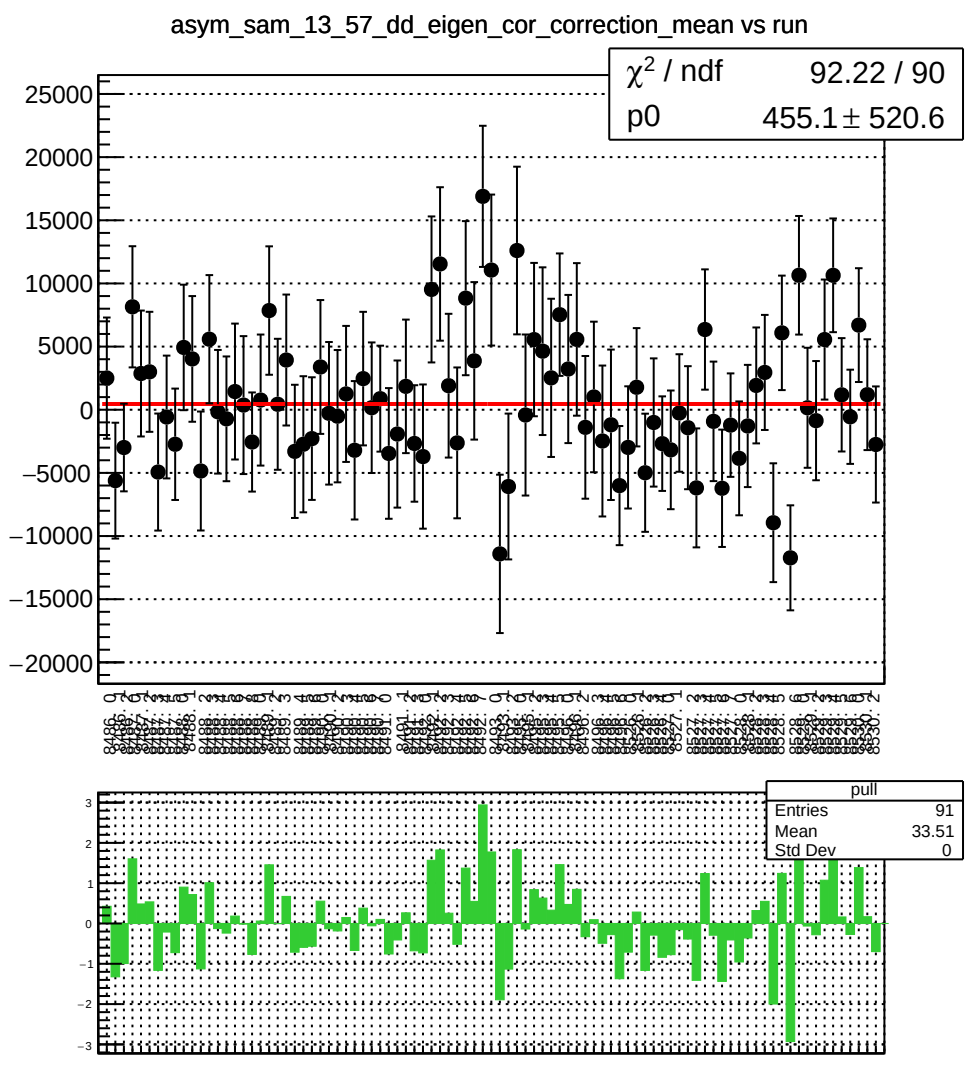

pull1D
Entries 91
Mean 0.03754
Std Dev 1.006

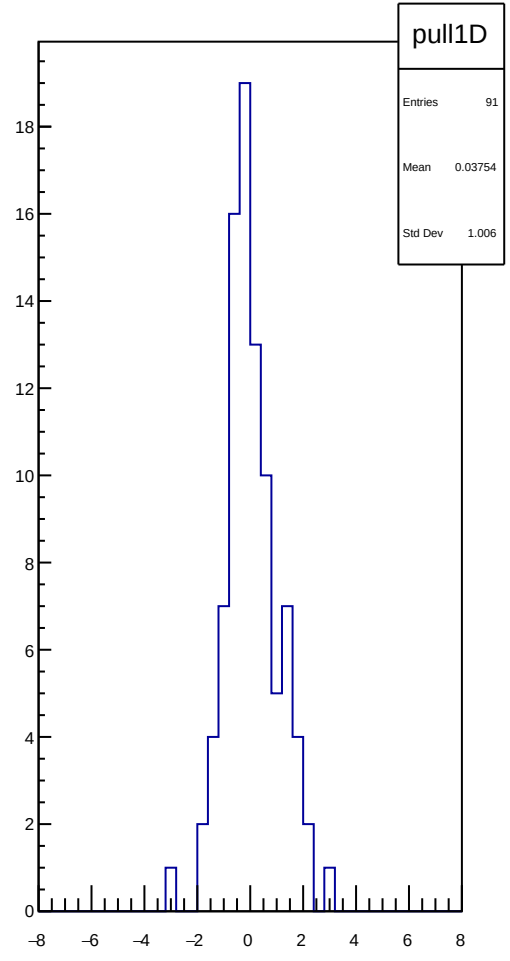

asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 1.913e+04 / 90
p0 484.2 ± 0.3681
650
600
550
500
450
400

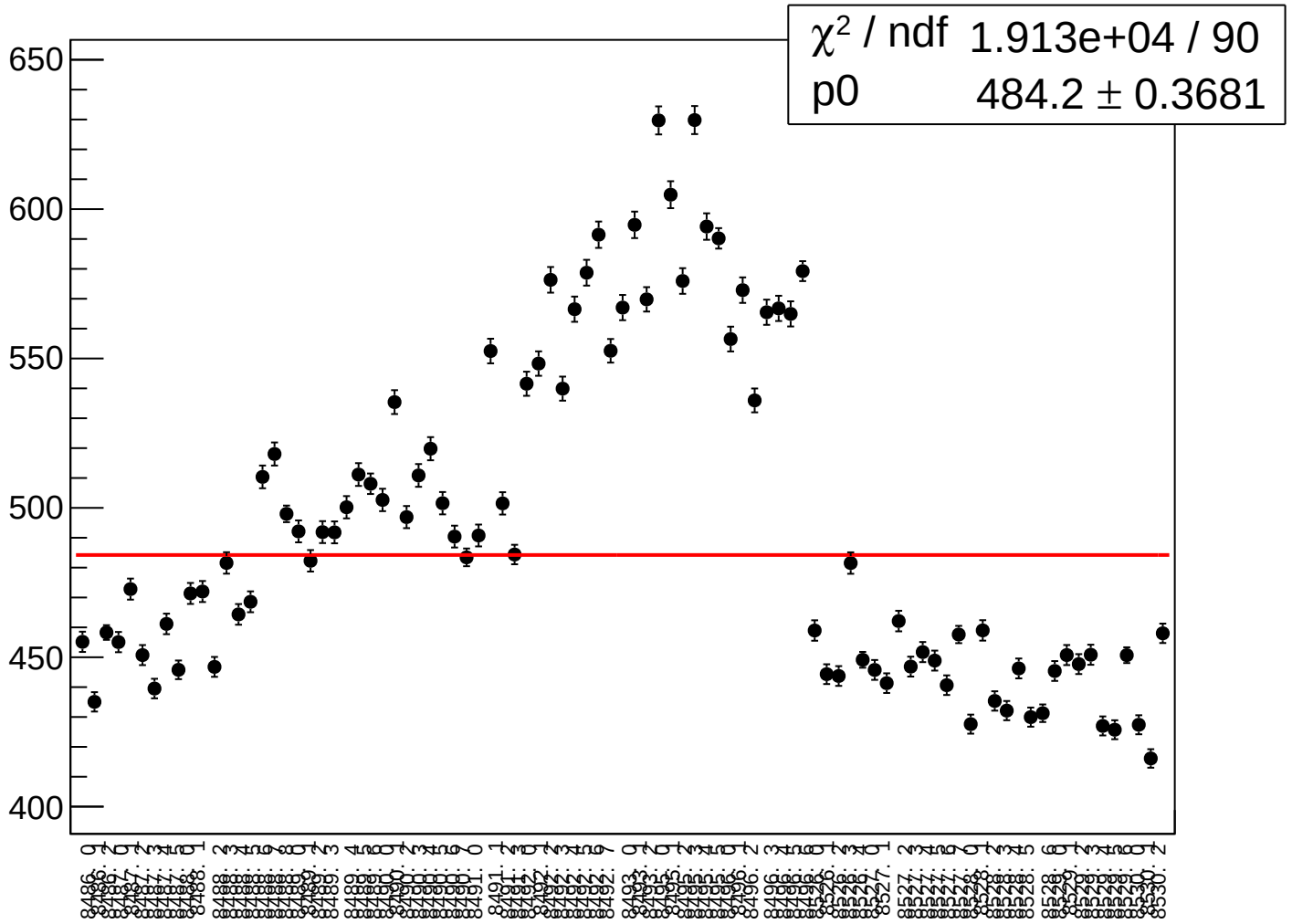

eigen_cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 105 / 90
p0 74.24 ± 58.25
pull
Entries 91
Mean −301.7
Std Dev 0

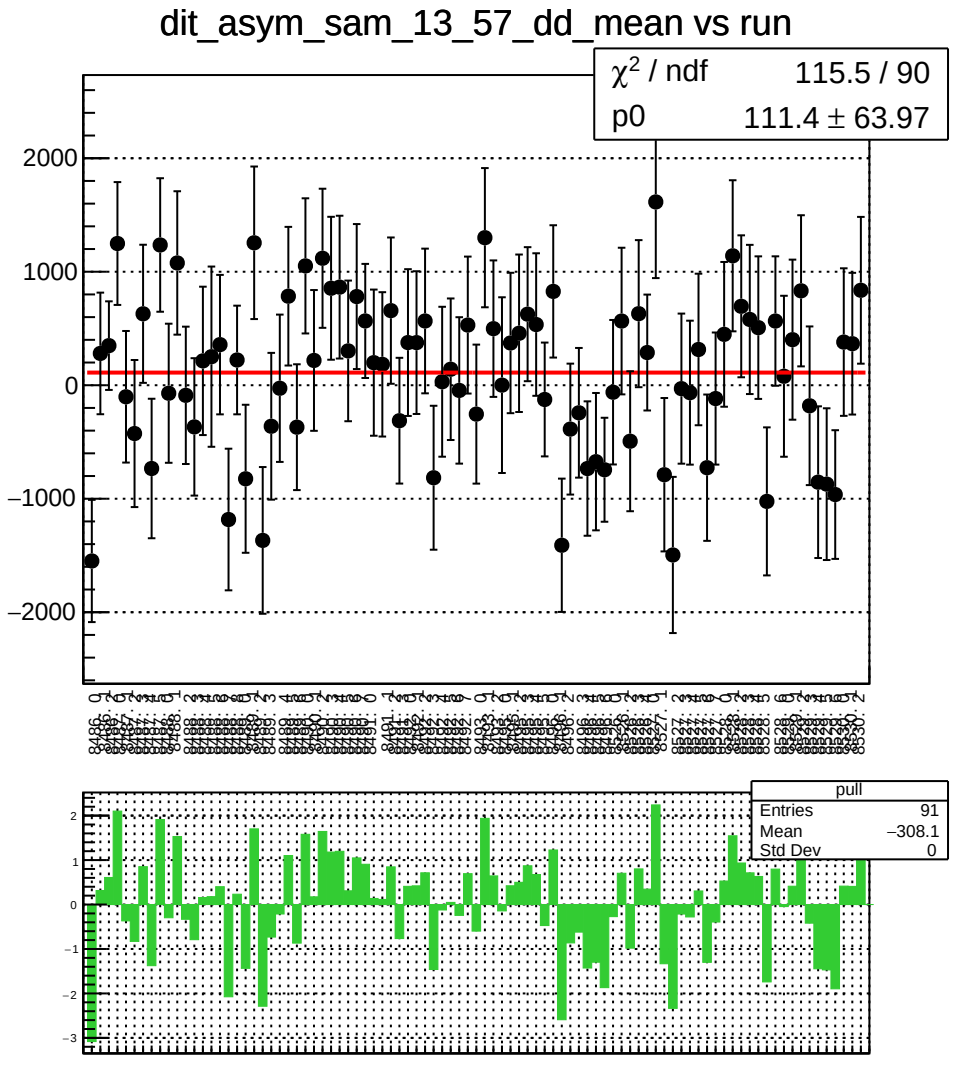

pull1D
Entries 91
Mean 0.007094
Std Dev 1.074

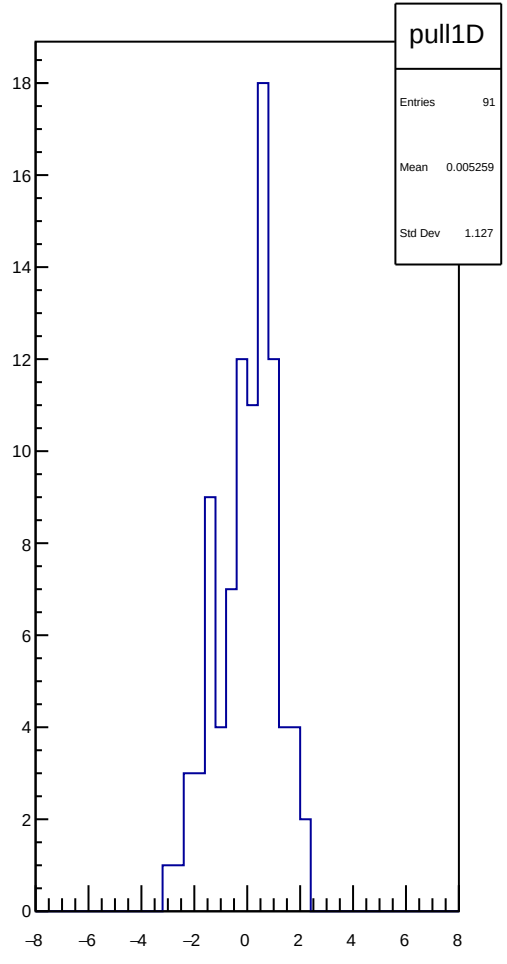

eigen_cor_asym_sam_13_57_dd_rms vs run
χ^2 / ndf 5662 / 90
p0 54.39 ± 0.04119
70
65
60
55
50
45

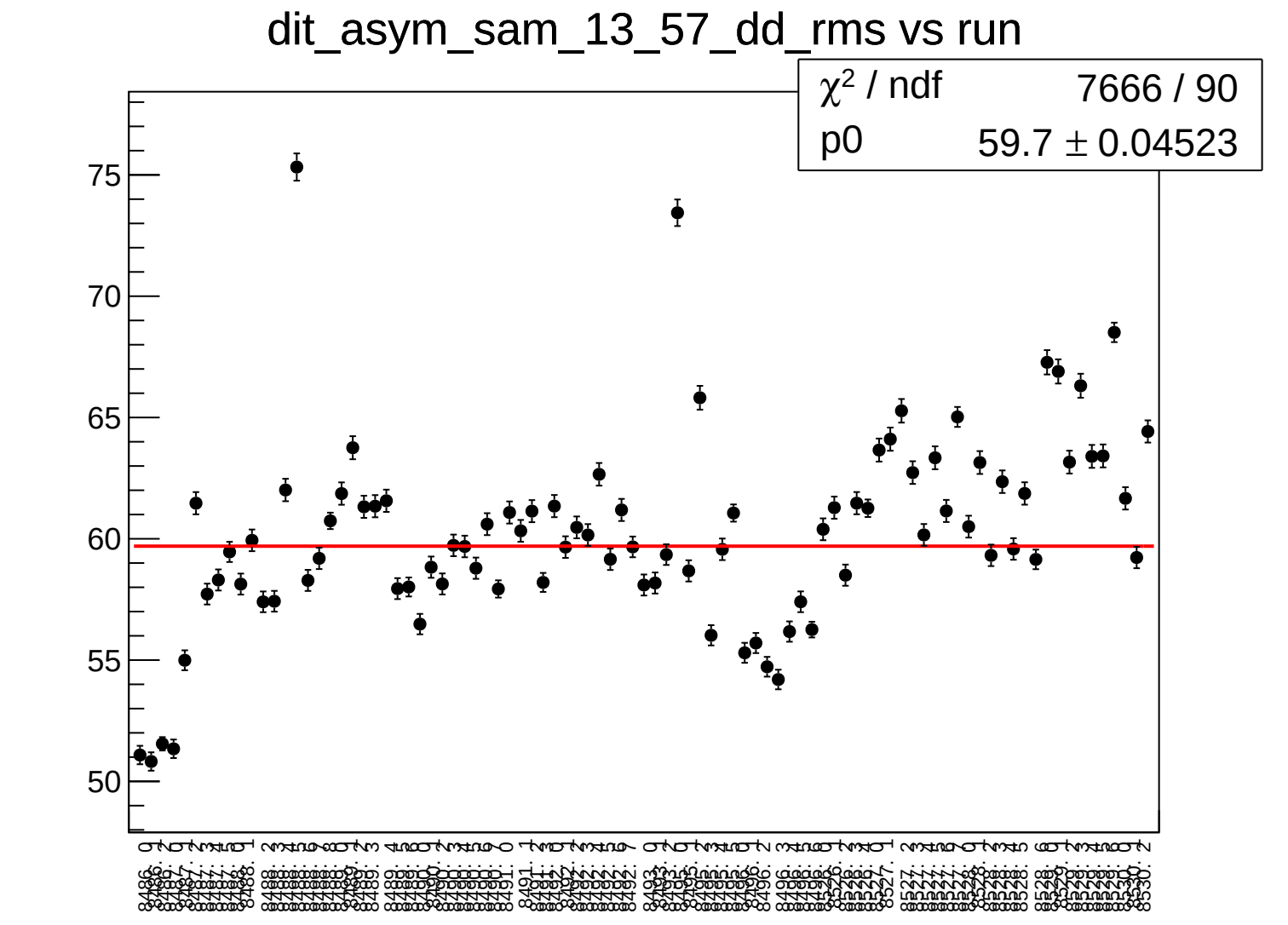

asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 92.22 / 90
p0 455.1 ± 520.6
pull
Entries 91
Mean 33.51
Std Dev 0

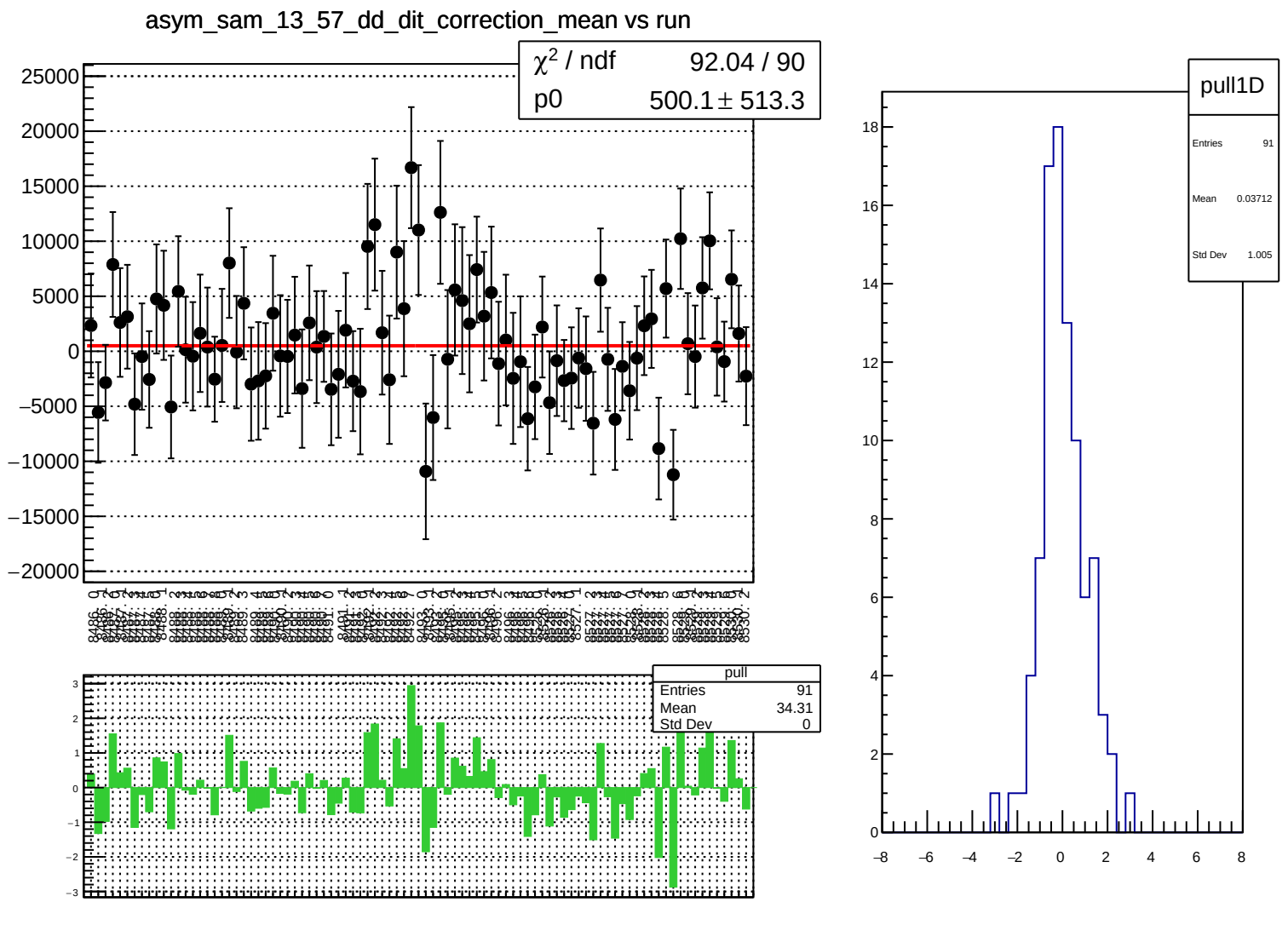

pull1D
Entries 91
Mean 0.03754
Std Dev 1.006

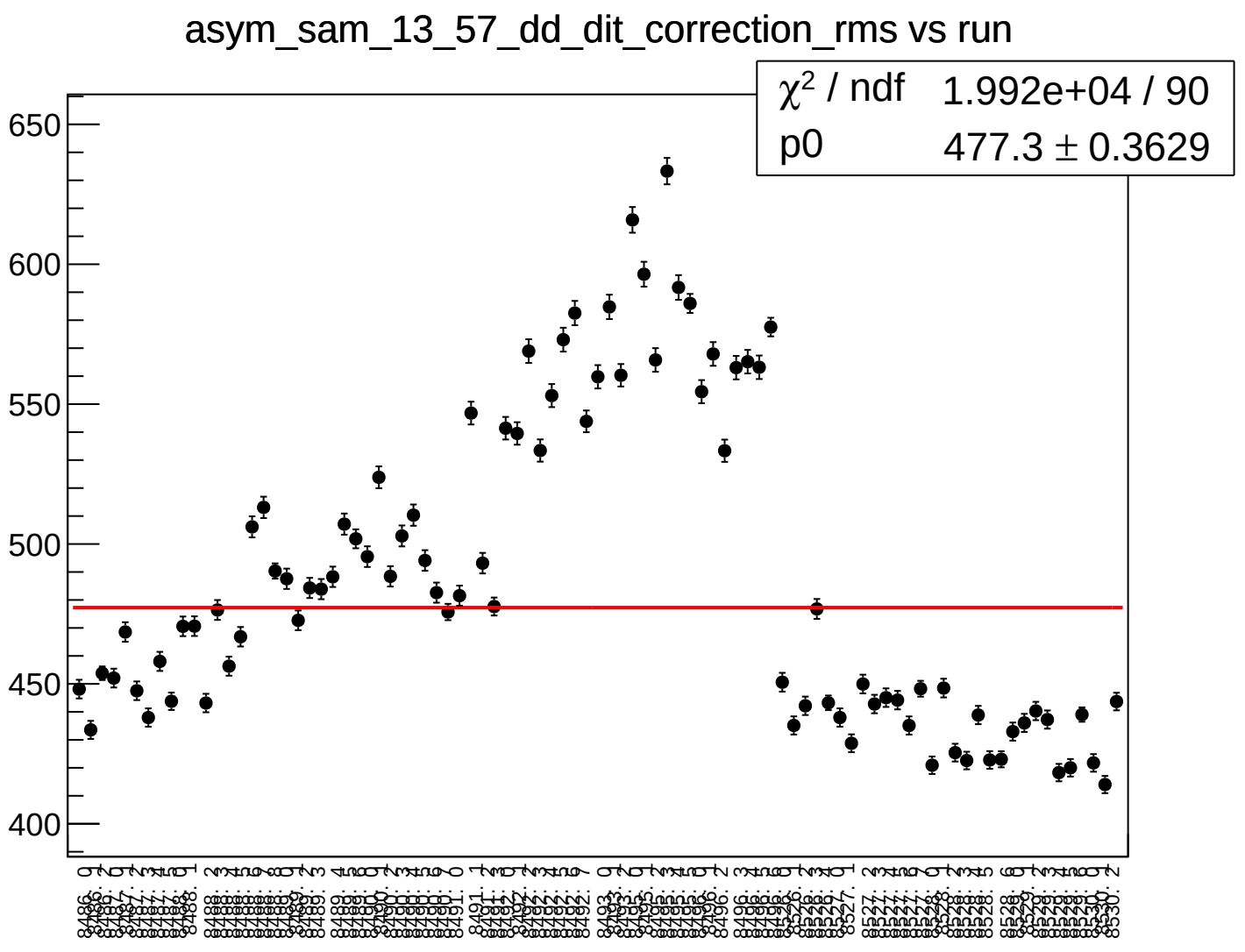

asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.913e+04 / 90
p0 484.2 ± 0.3681
650
600
550
500
450
400

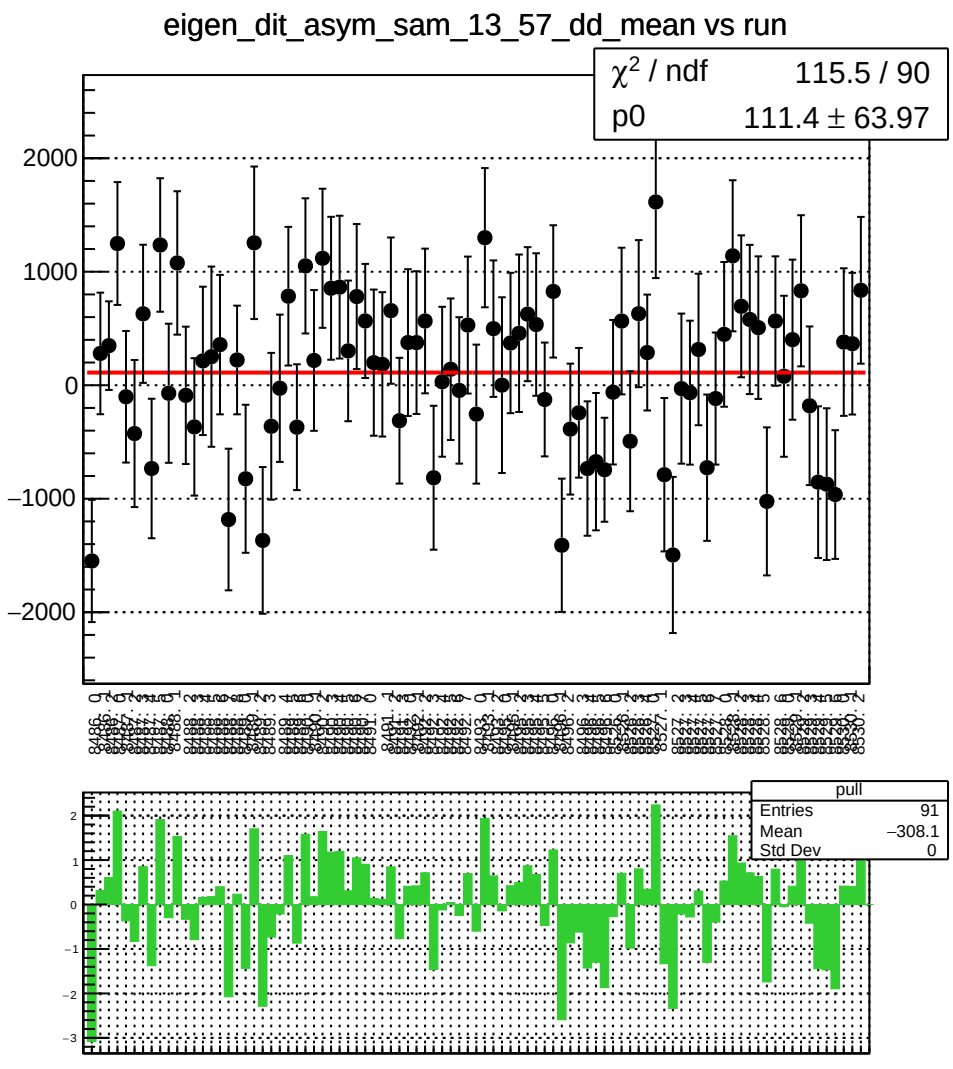

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 115.5 / 90
p0 111.4 ± 63.97
2000
1000
0
−1000
−2000
pull
Entries 91
Mean −308.1
Std Dev 0
2
1
0
−1
−2
−3

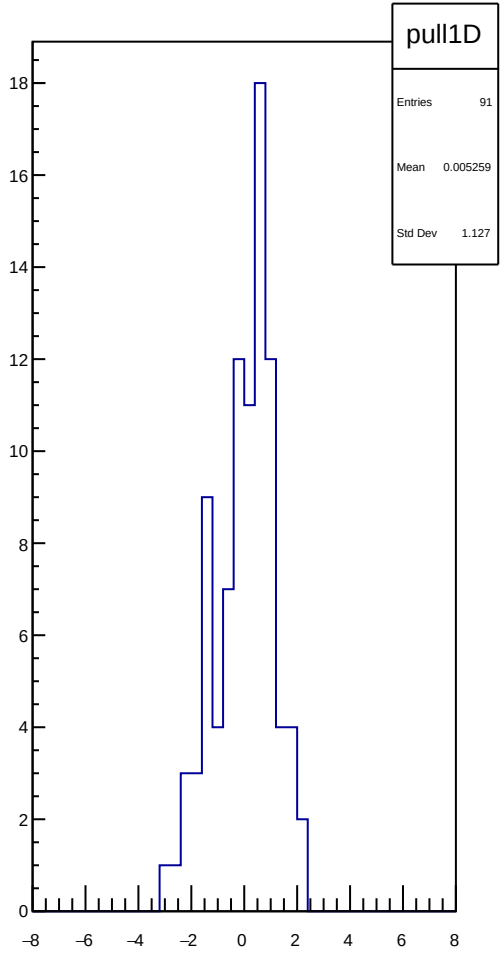

pull1D
Entries 91
Mean 0.005259
Std Dev 1.127
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

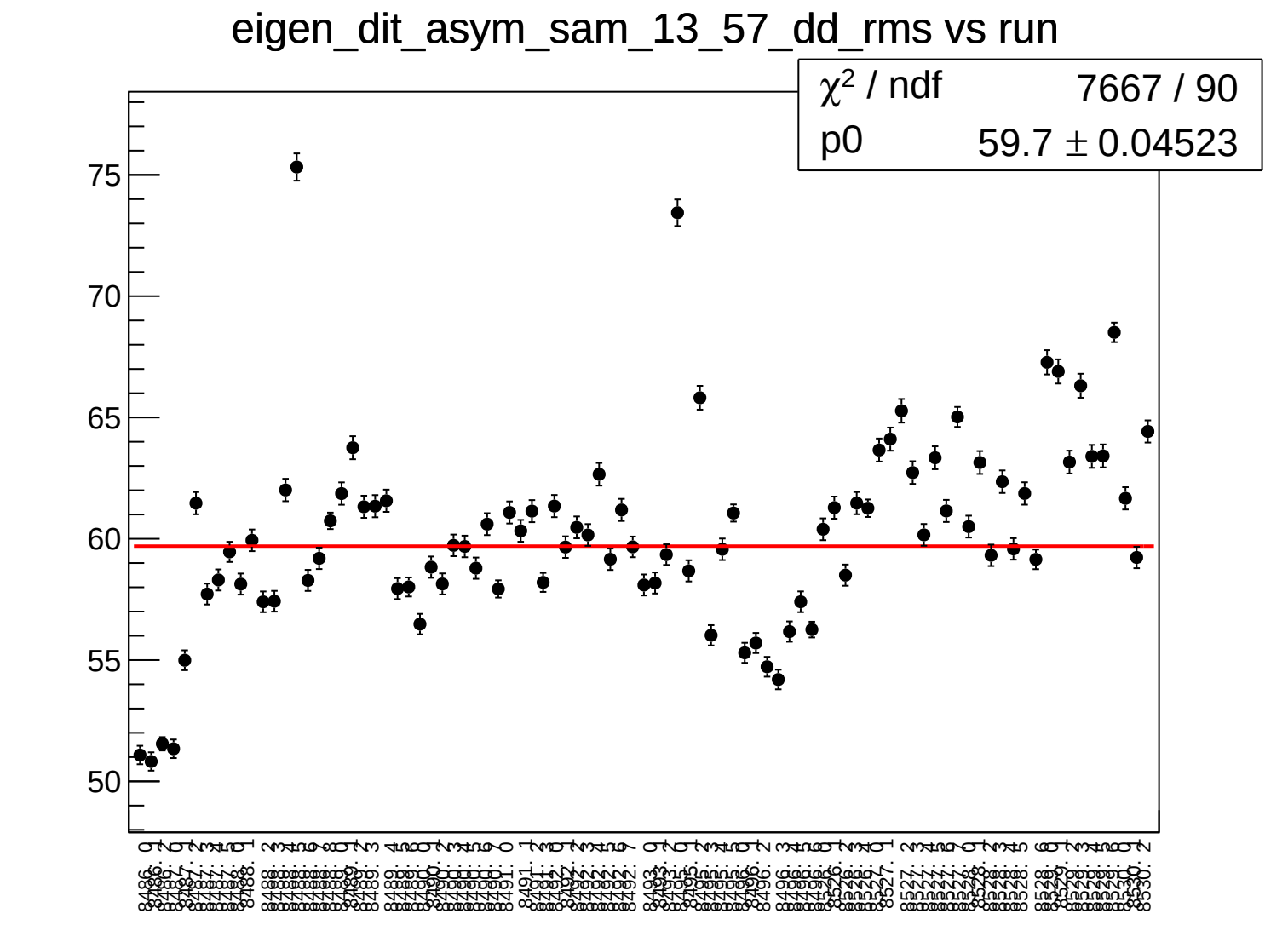

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 7666 / 90
p0 59.7 ± 0.04523
75
70
65
60
55
50

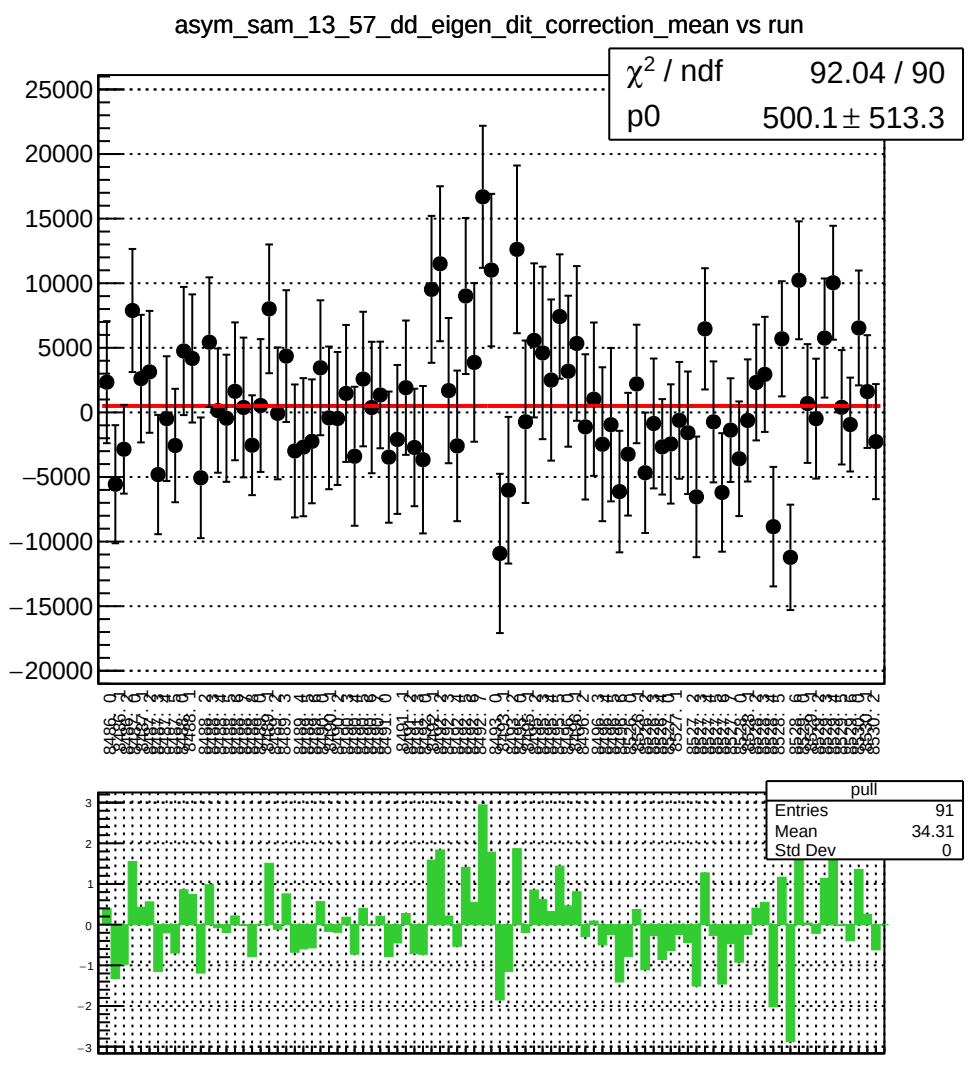

asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 92.04 / 90
p0 500.1 ± 513.3
pull
Entries 91
Mean 34.31
Std Dev 0
pull1D
Entries 91
Mean 0.03712
Std Dev 1.005

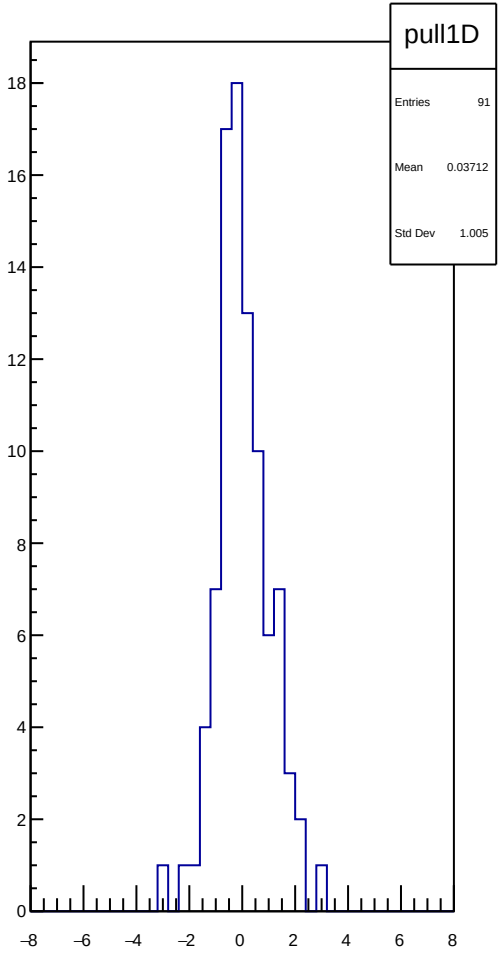

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 1.992e+04 / 90
p0 477.3 ± 0.3629
650
600
550
500
450
400

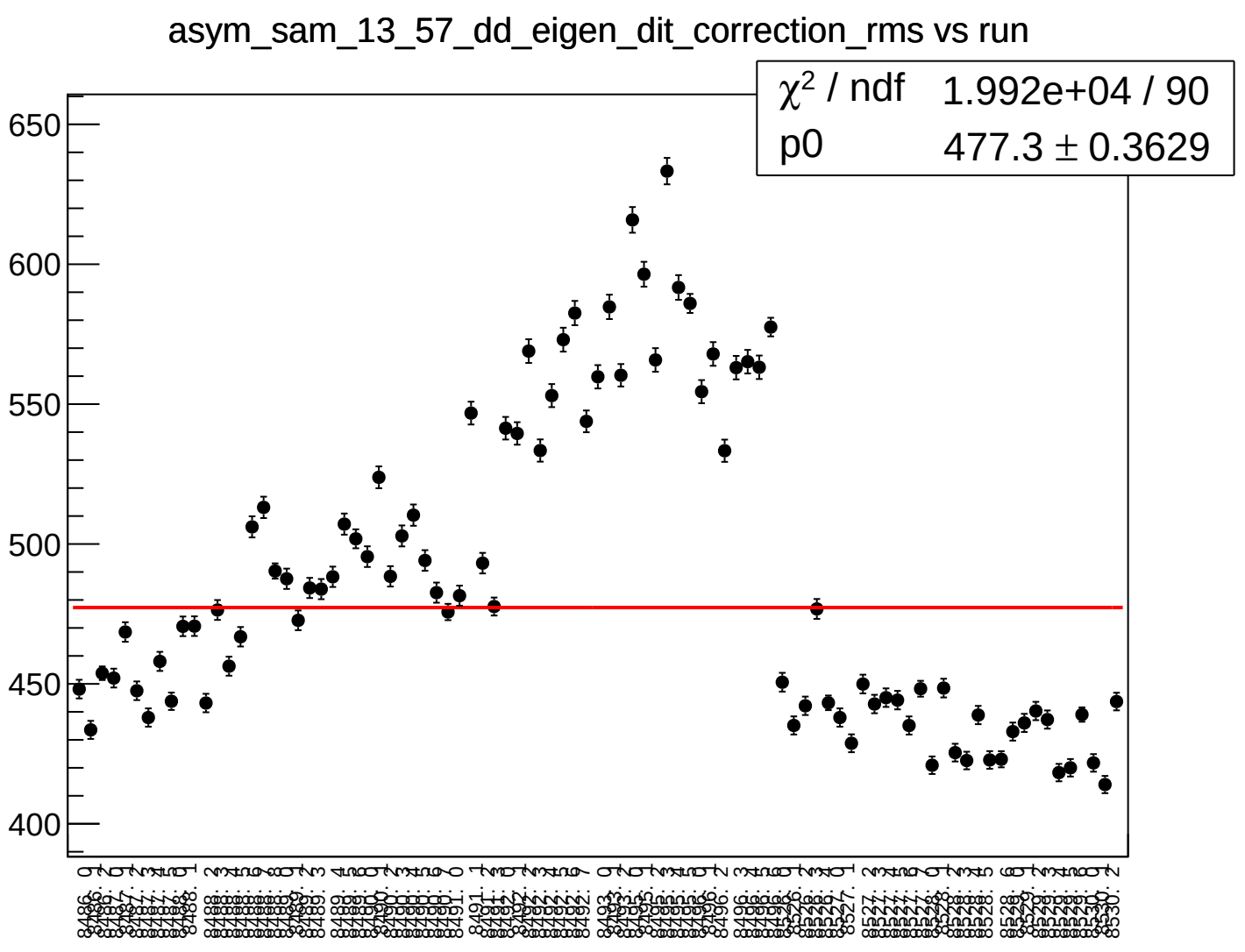

eigen_dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 115.5 / 90
p0 111.4 ± 63.97
2000
1000
0
−1000
−2000
pull
Entries 91
Mean −308.1
Std Dev 0
2
1
0
−1
−2
−3

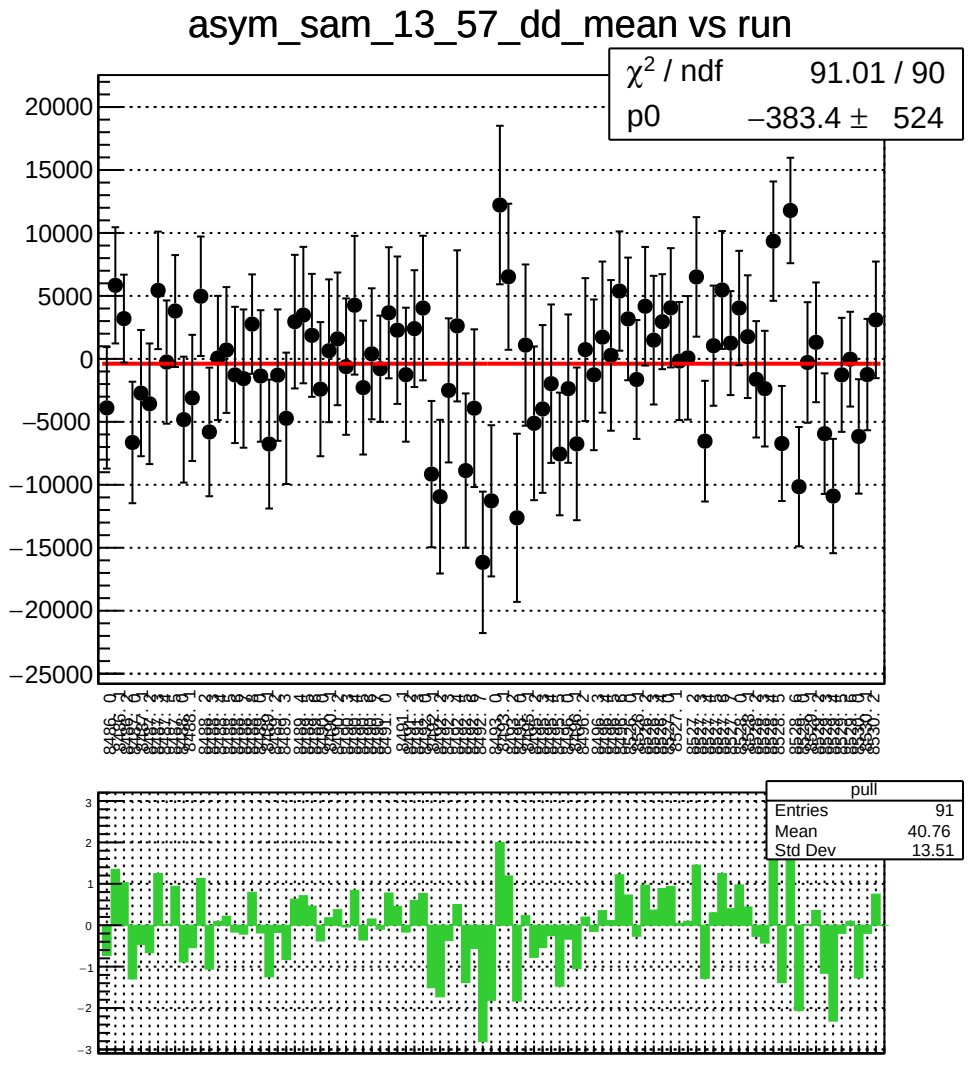

pull1D
Entries 91
Mean 0.005259
Std Dev 1.127
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

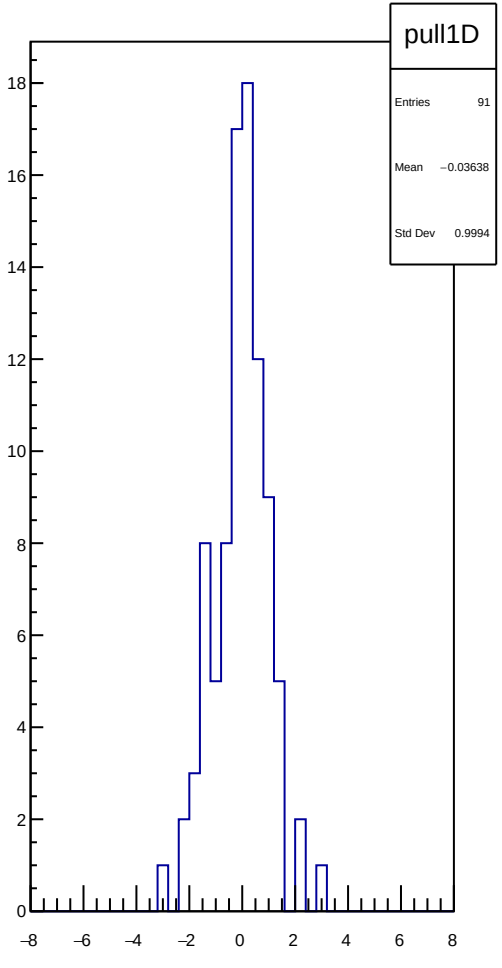

eigen_dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 7667 / 90
p0 59.7 ± 0.04523
75
70
65
60
55
50

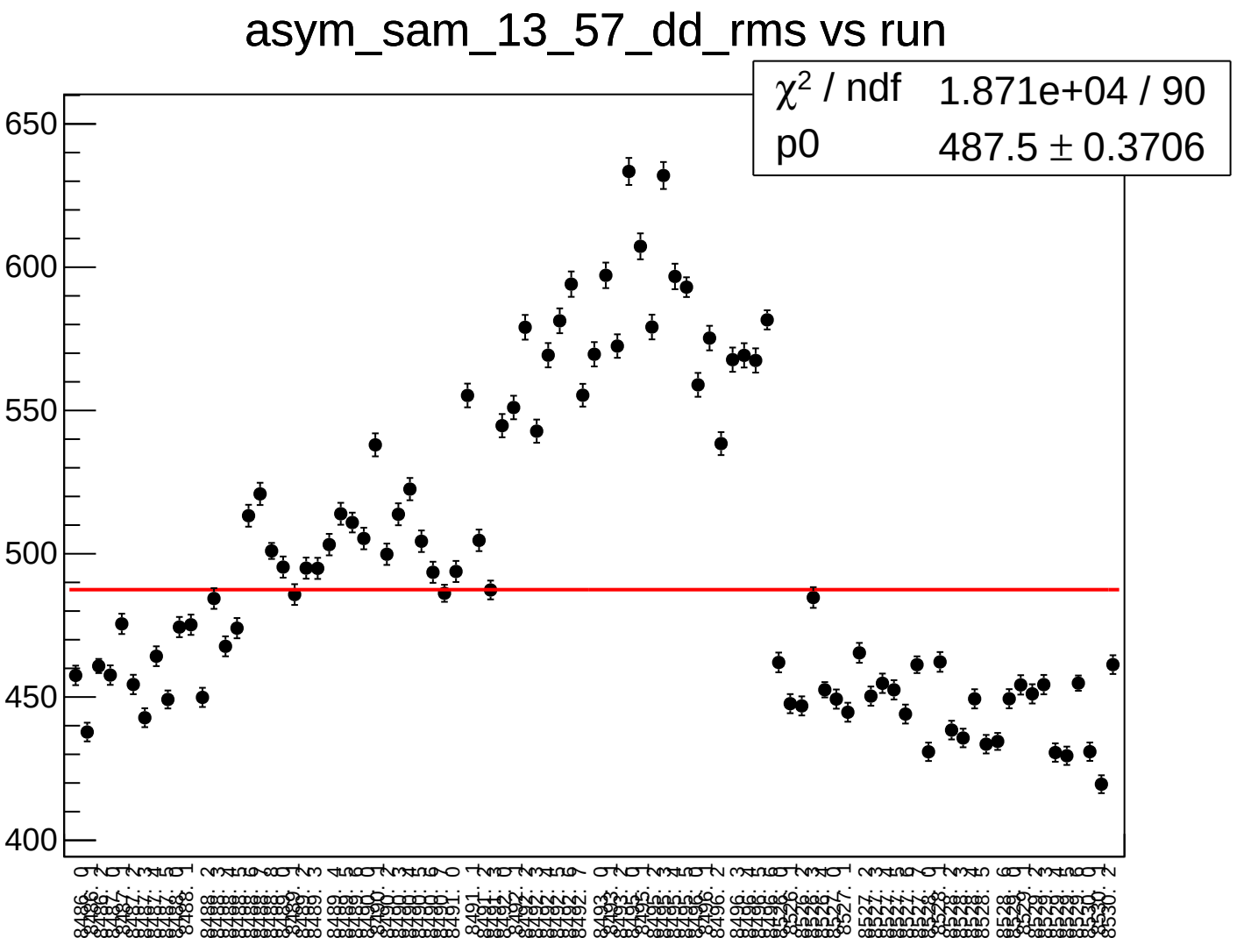

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 92.04 / 90
p0 500.1 ± 513.3
pull
Entries 91
Mean 34.31
Std Dev 0

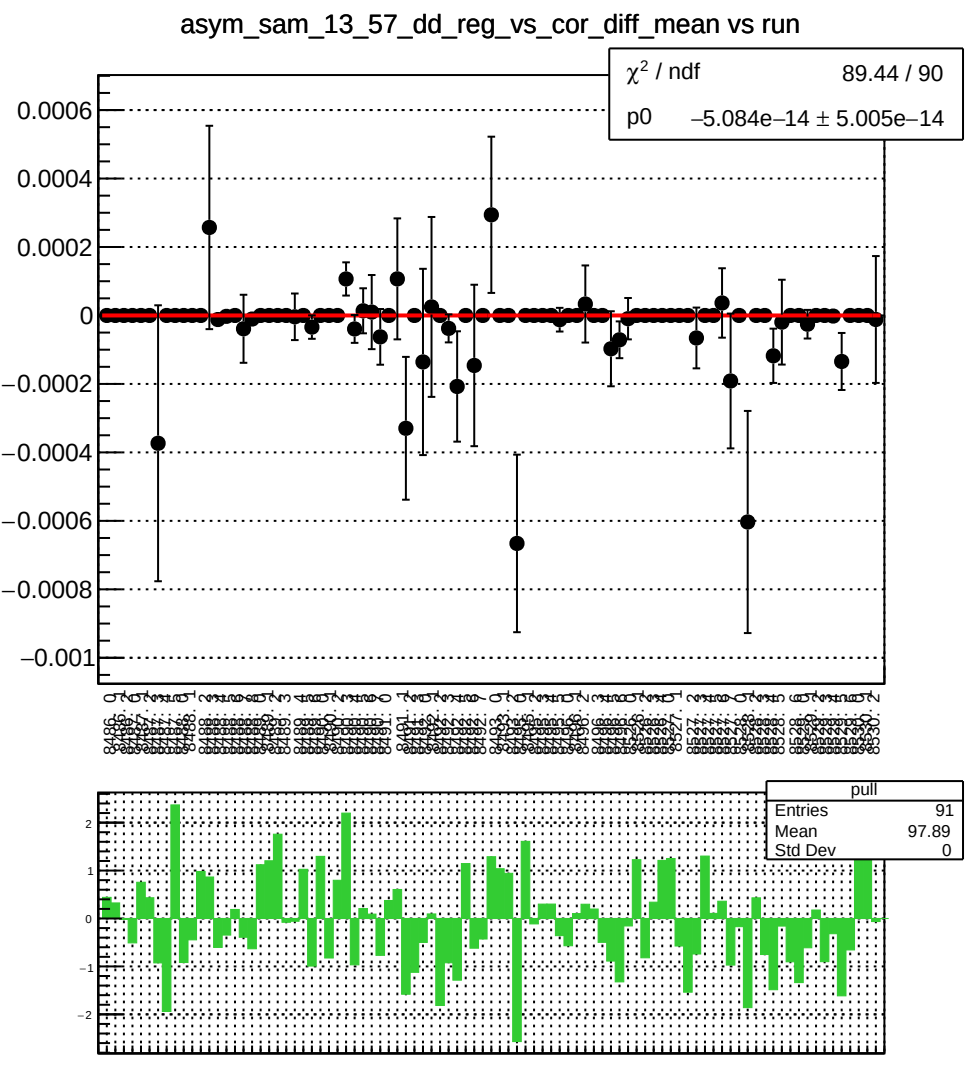

pull1D
Entries 91
Mean 0.03712
Std Dev 1.005

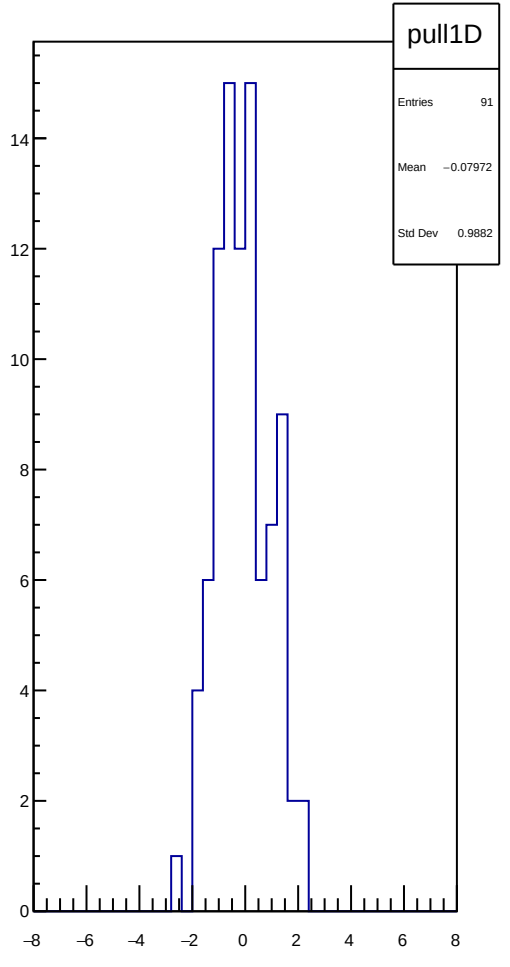

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.992e+04 / 90
p0 477.3 ± 0.3629
650
600
550
500
450
400

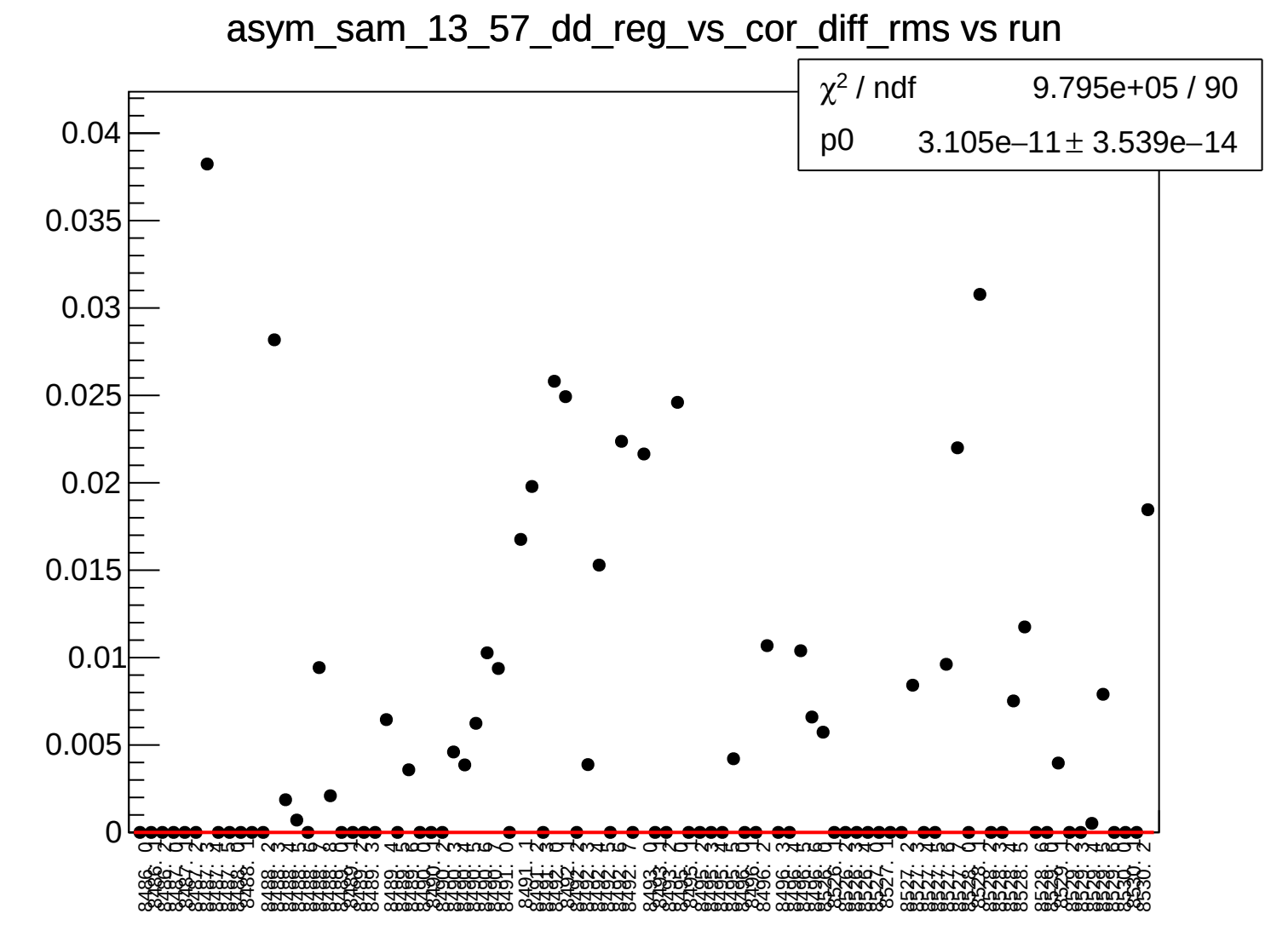

asym_sam_13_57_dd_mean vs run
χ² / ndf 91.01 / 90
p0 −383.4 ± 524
pull
Entries 91
Mean 40.76
Std Dev 13.51

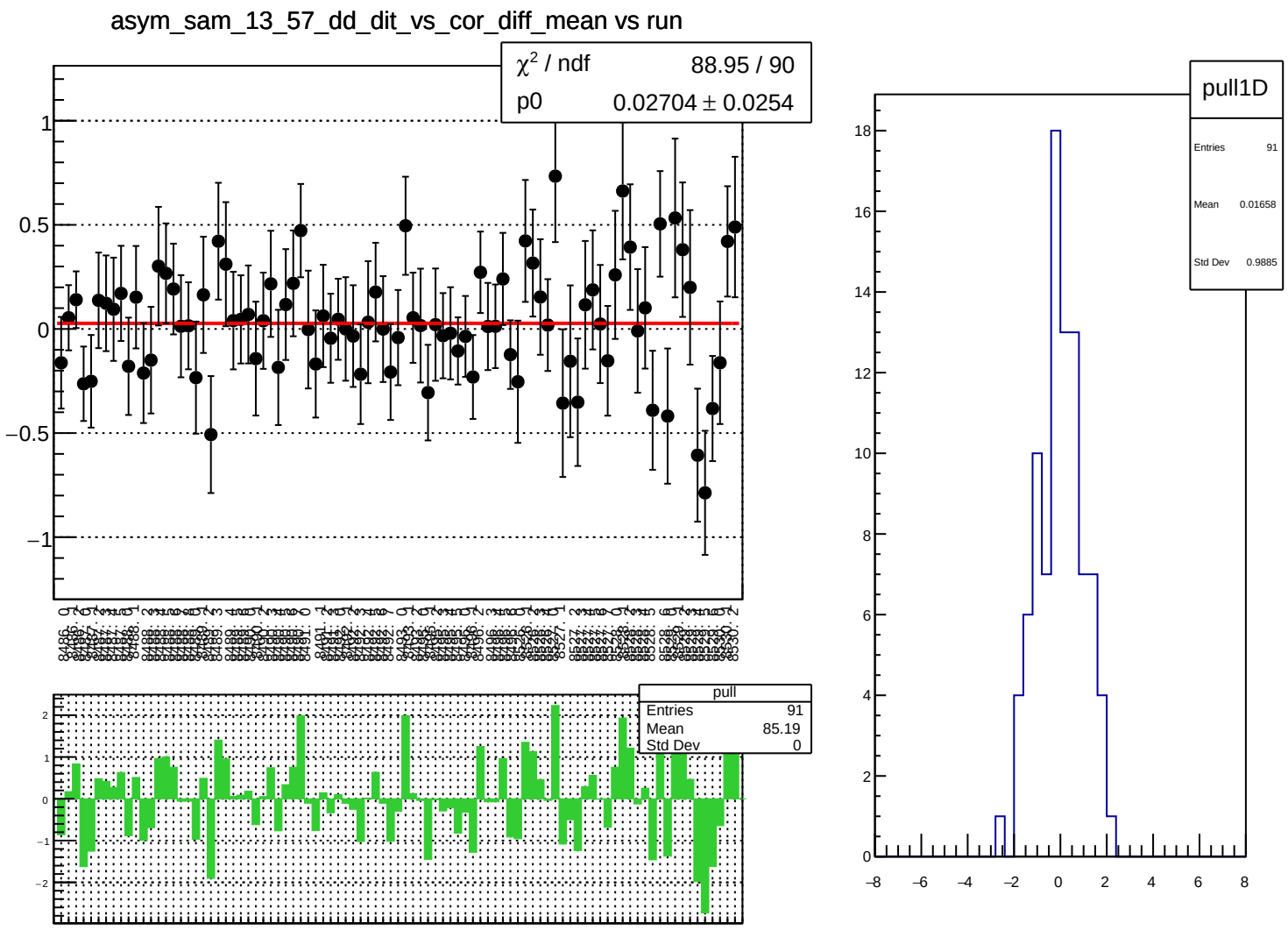

pull1D
Entries 91
Mean −0.03638
Std Dev 0.9994

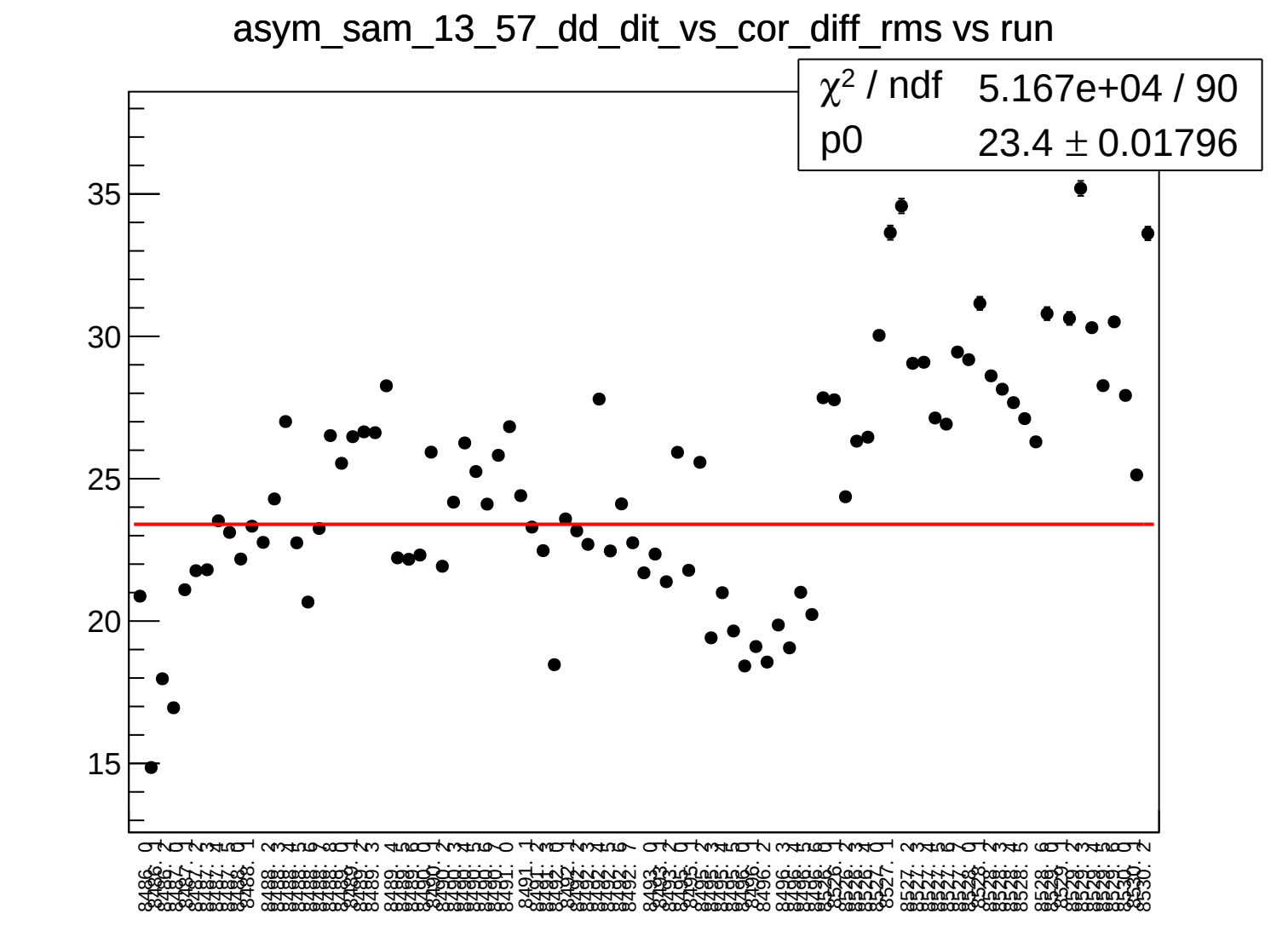

asym_sam_13_57_dd_rms vs run
χ² / ndf 1.871e+04 / 90
p0 487.5 ± 0.3706
650
600
550
500
450
400

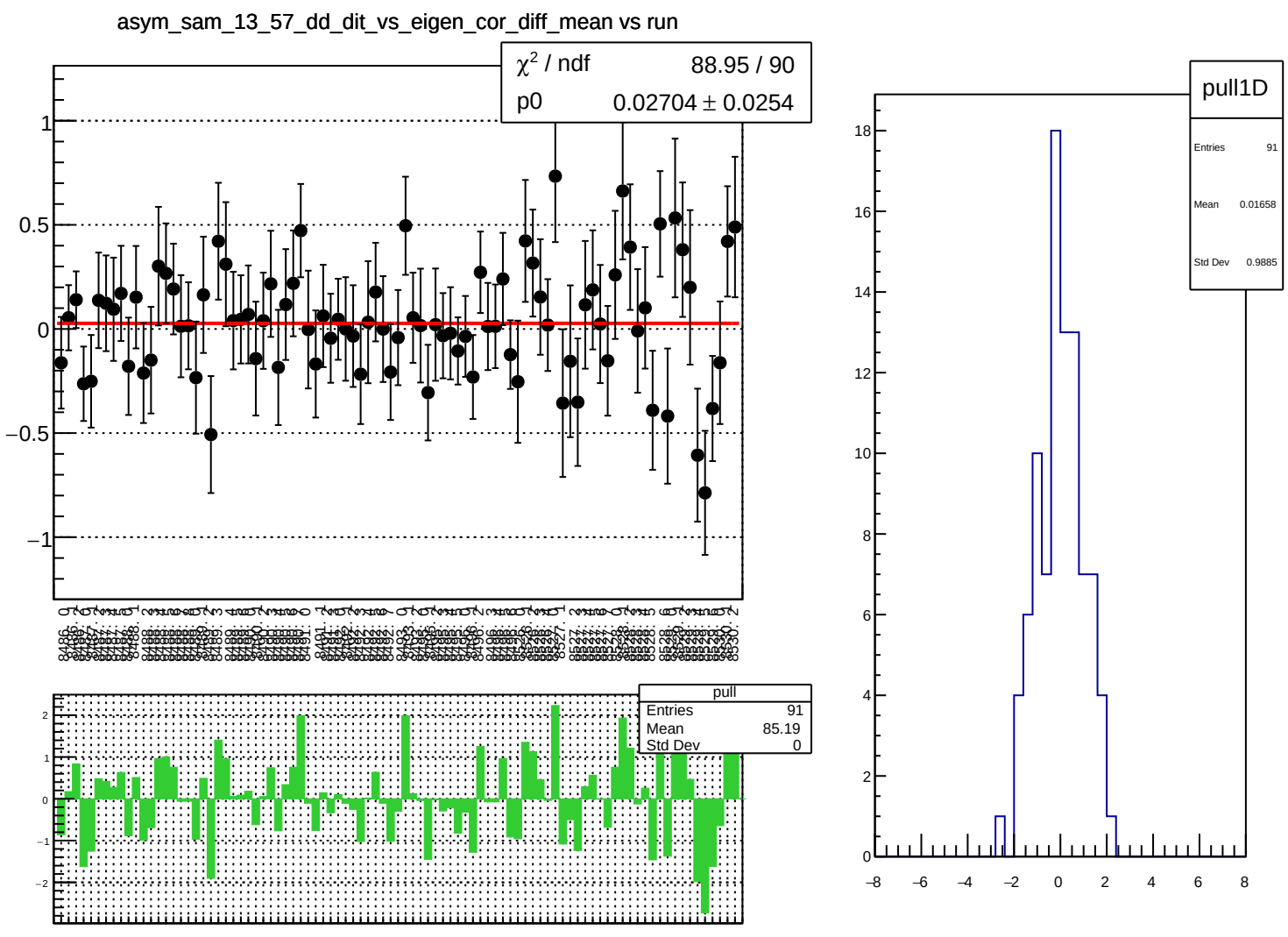

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 89.44 / 90
p0 −5.084e−14 ± 5.005e−14
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 91
Mean 97.89
Std Dev 0
2
1
0
−1
−2

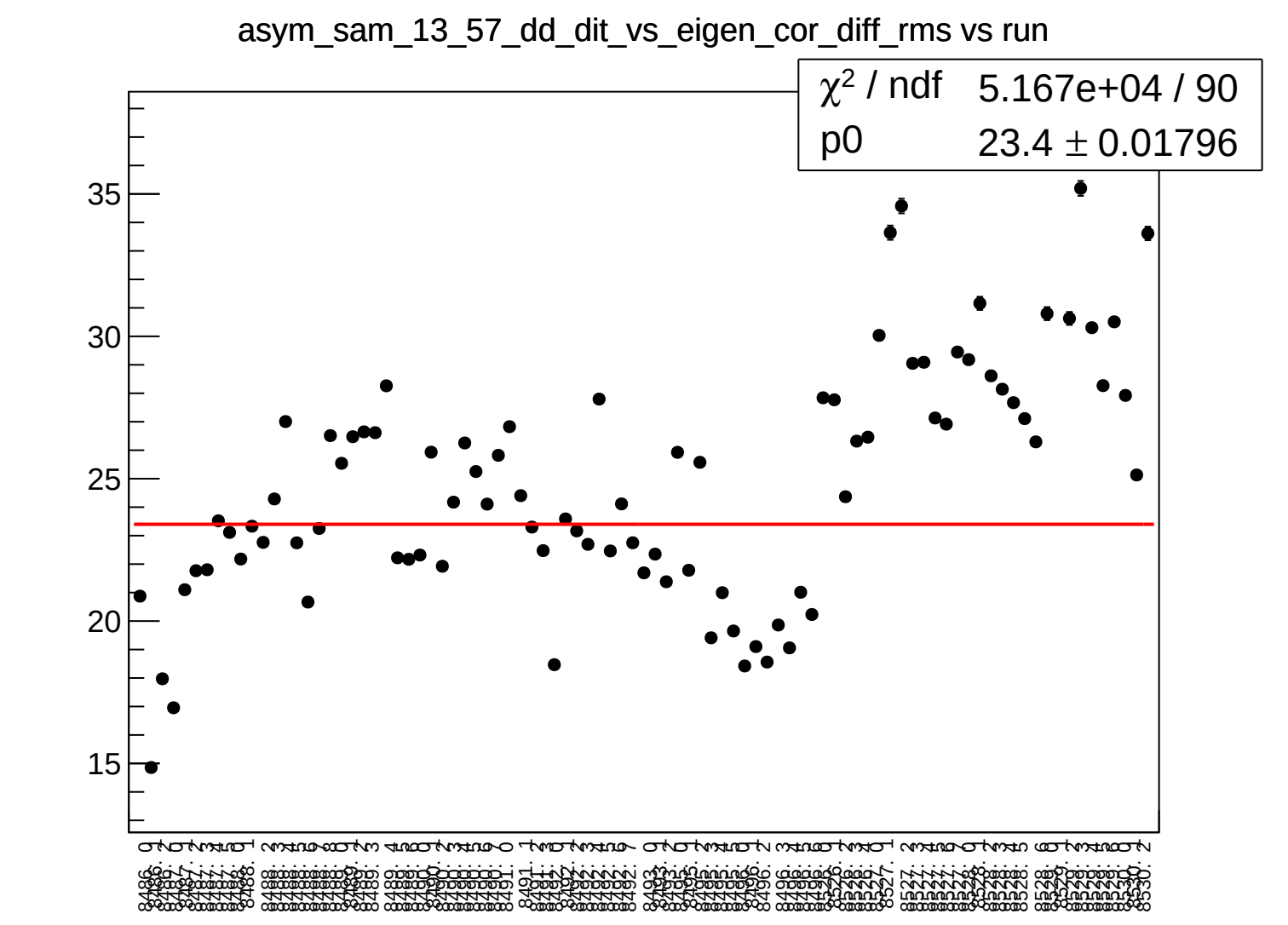

pull1D
Entries 91
Mean −0.07972
Std Dev 0.9882
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

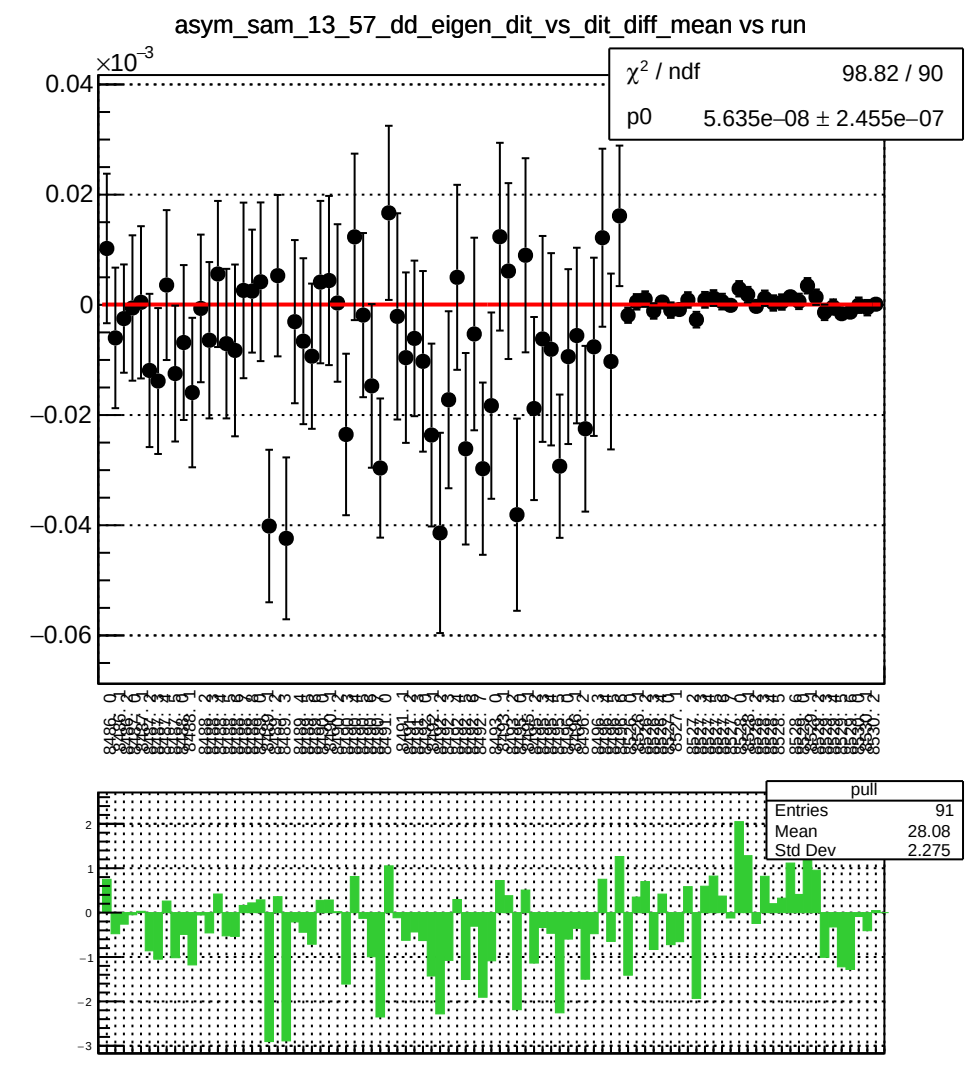

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.795e+05 / 90
p0 3.105e−11 ± 3.539e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

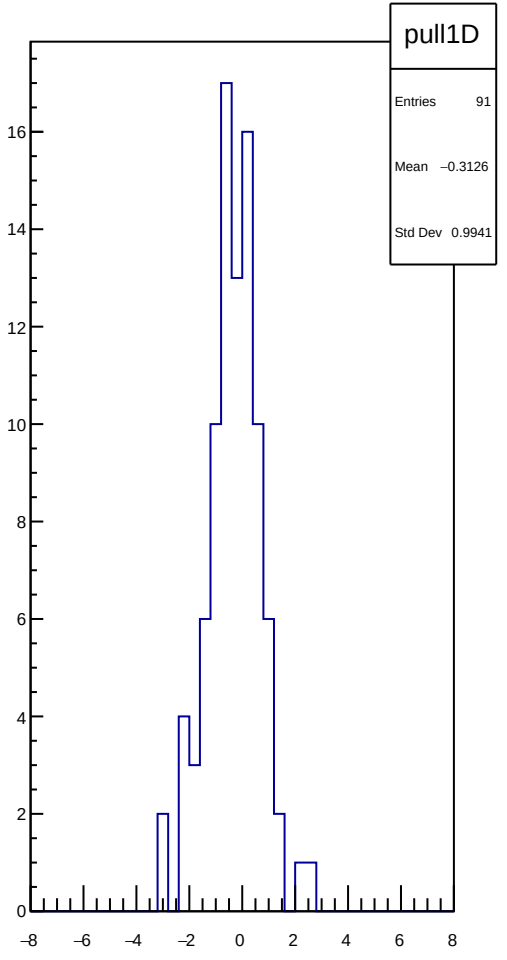

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 88.95 / 90
p0 0.02704 ± 0.0254
pull
Entries 91
Mean 85.19
Std Dev 0
pull1D
Entries 91
Mean 0.01658
Std Dev 0.9885

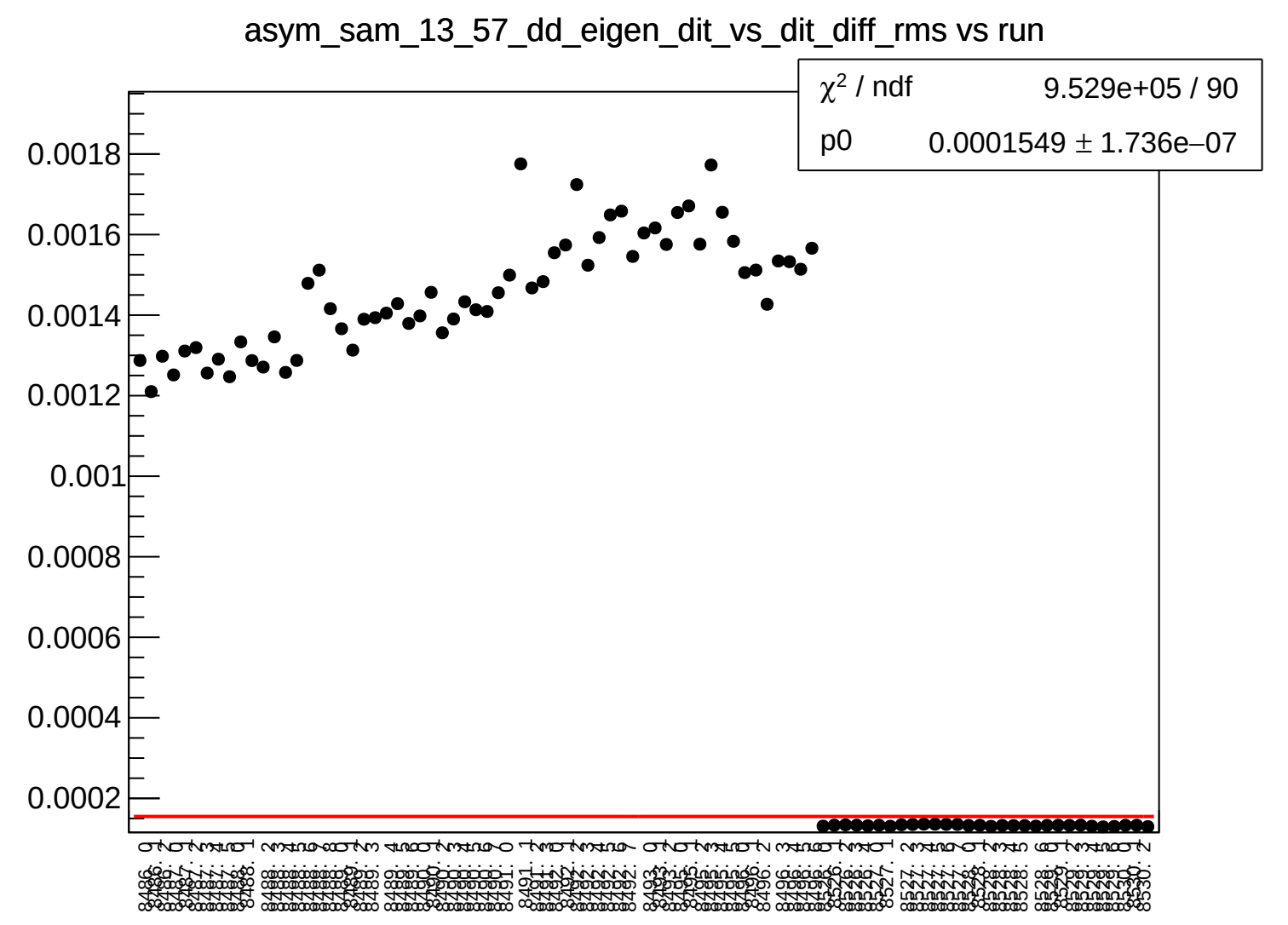

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.167e+04 / 90
p0 23.4 ± 0.01796
35
30
25
20
15

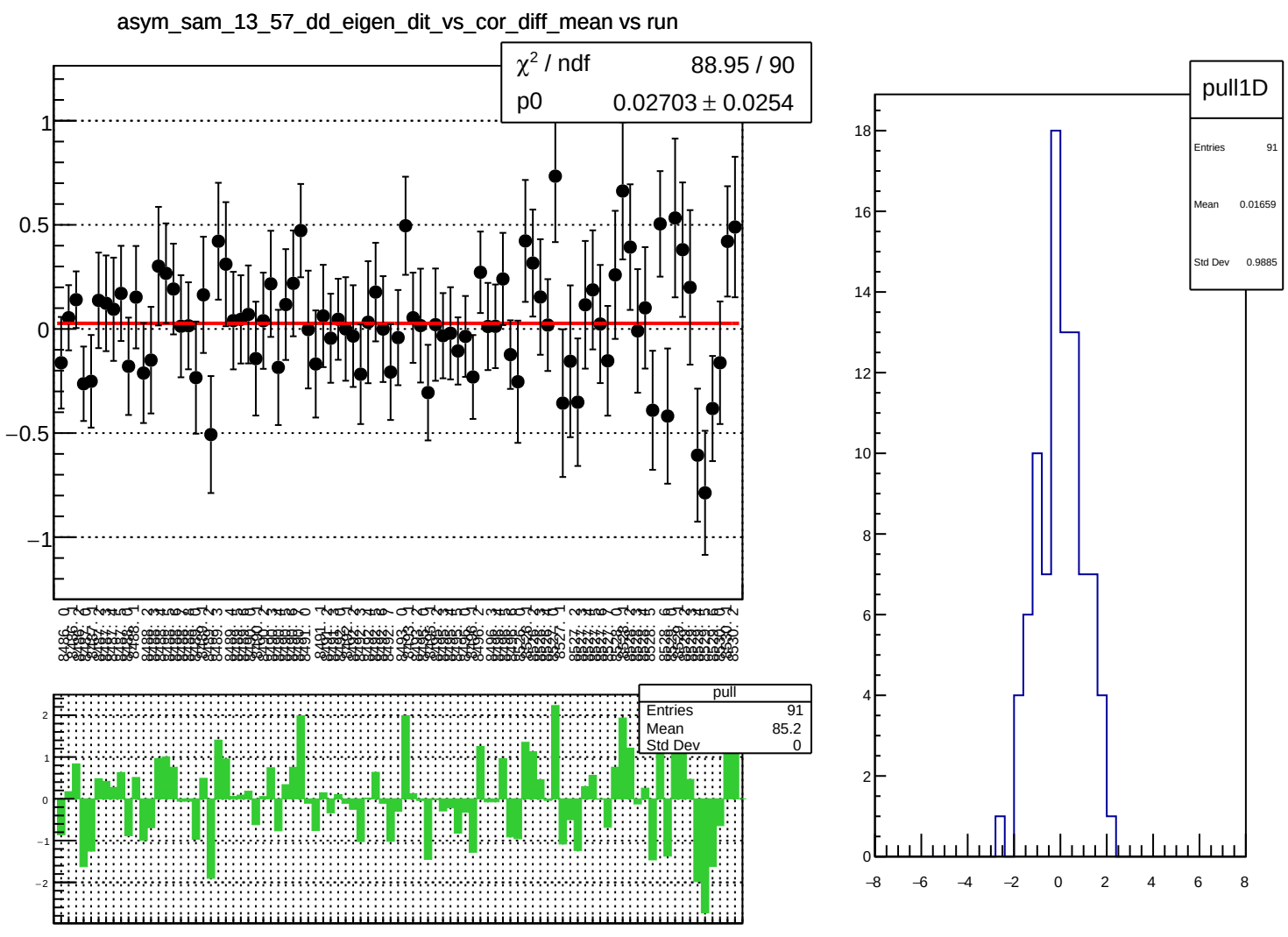

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.95 / 90
p0 0.02704 ± 0.0254
pull
Entries 91
Mean 85.19
Std Dev 0
pull1D
Entries 91
Mean 0.01658
Std Dev 0.9885

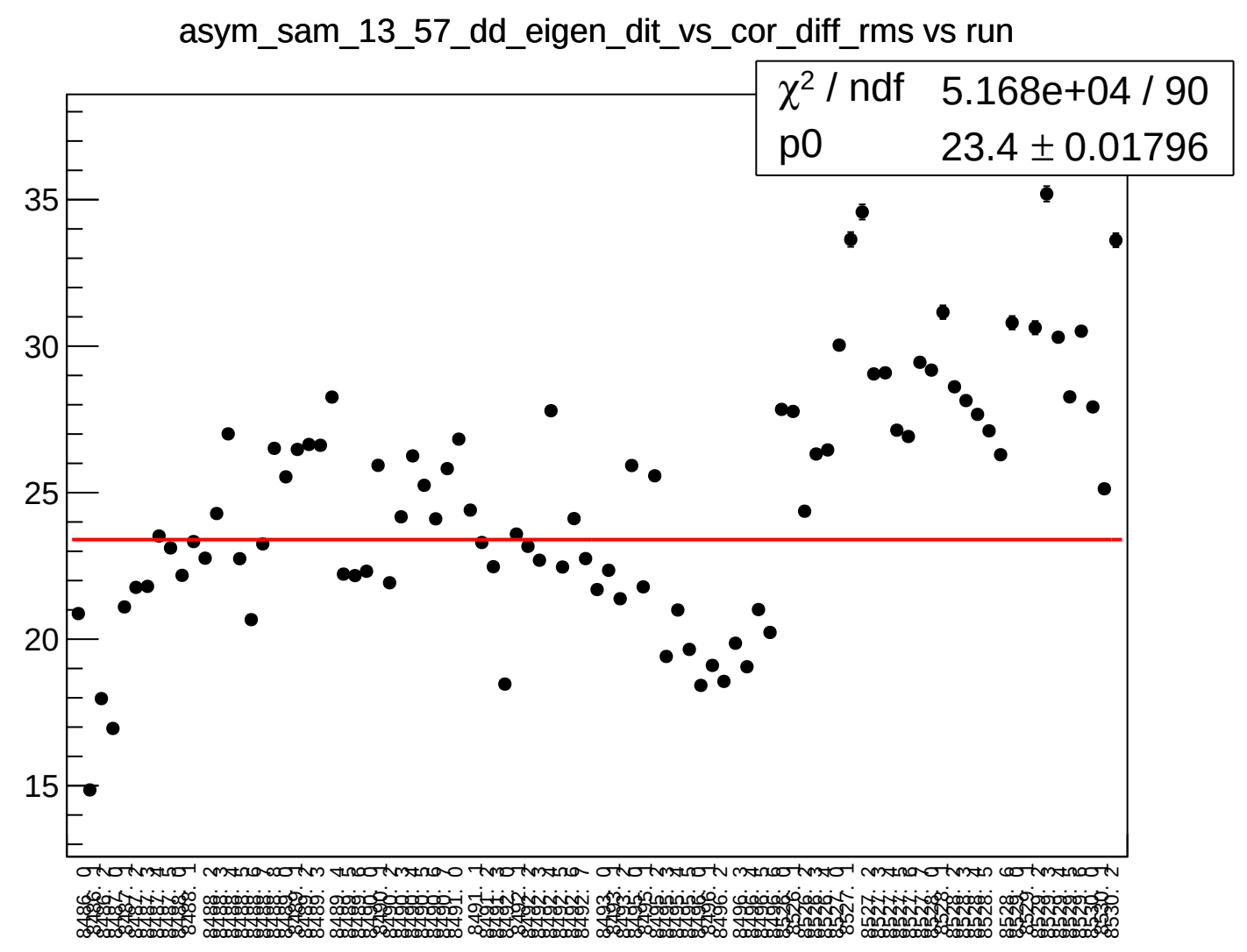

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.167e+04 / 90
p0 23.4 ± 0.01796
35
30
25
20
15

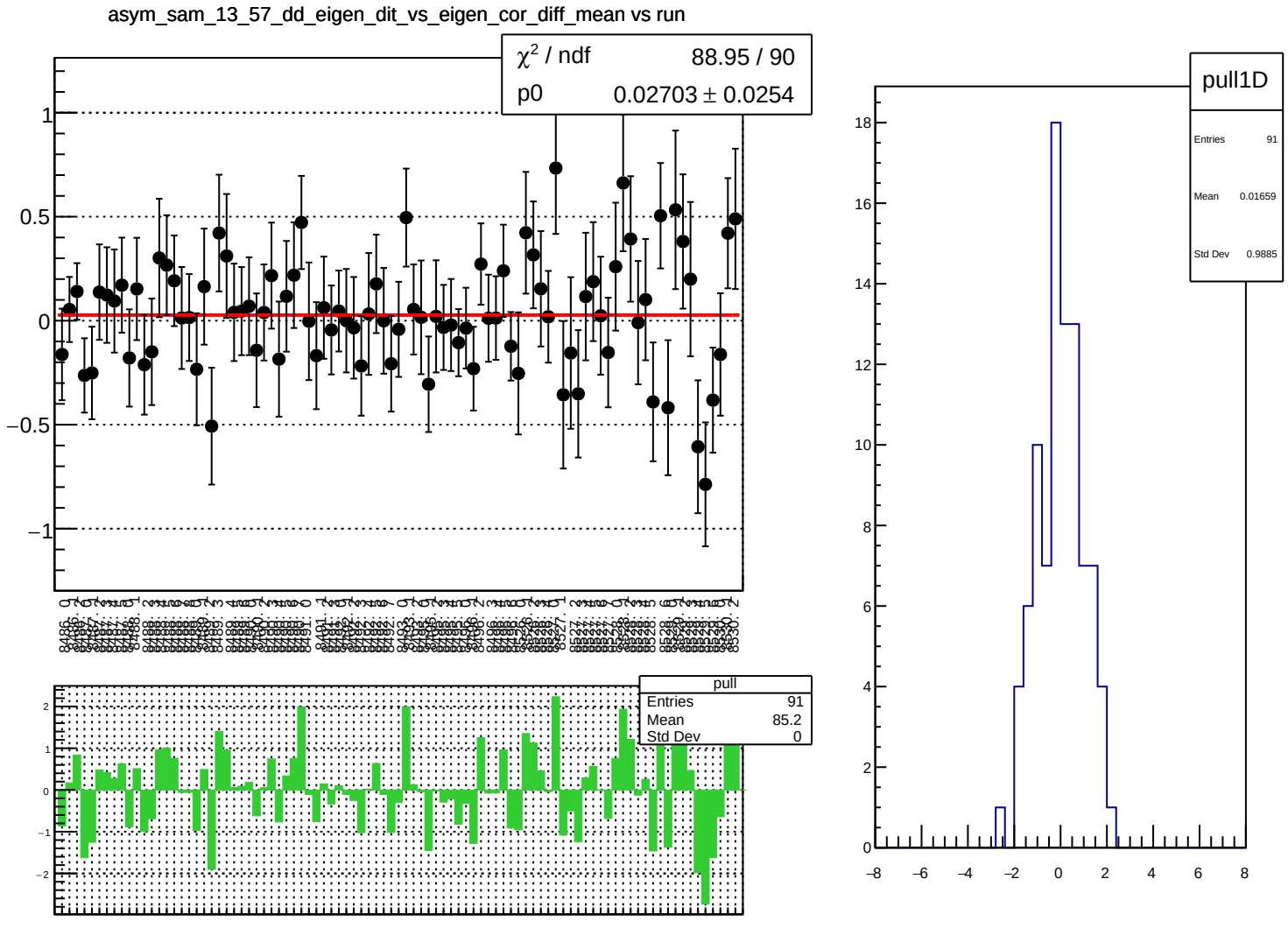

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.82 / 90
p0 5.635e−08 ± 2.455e−07
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 91
Mean 28.08
Std Dev 2.275
2
1
0
−1
−2
−3

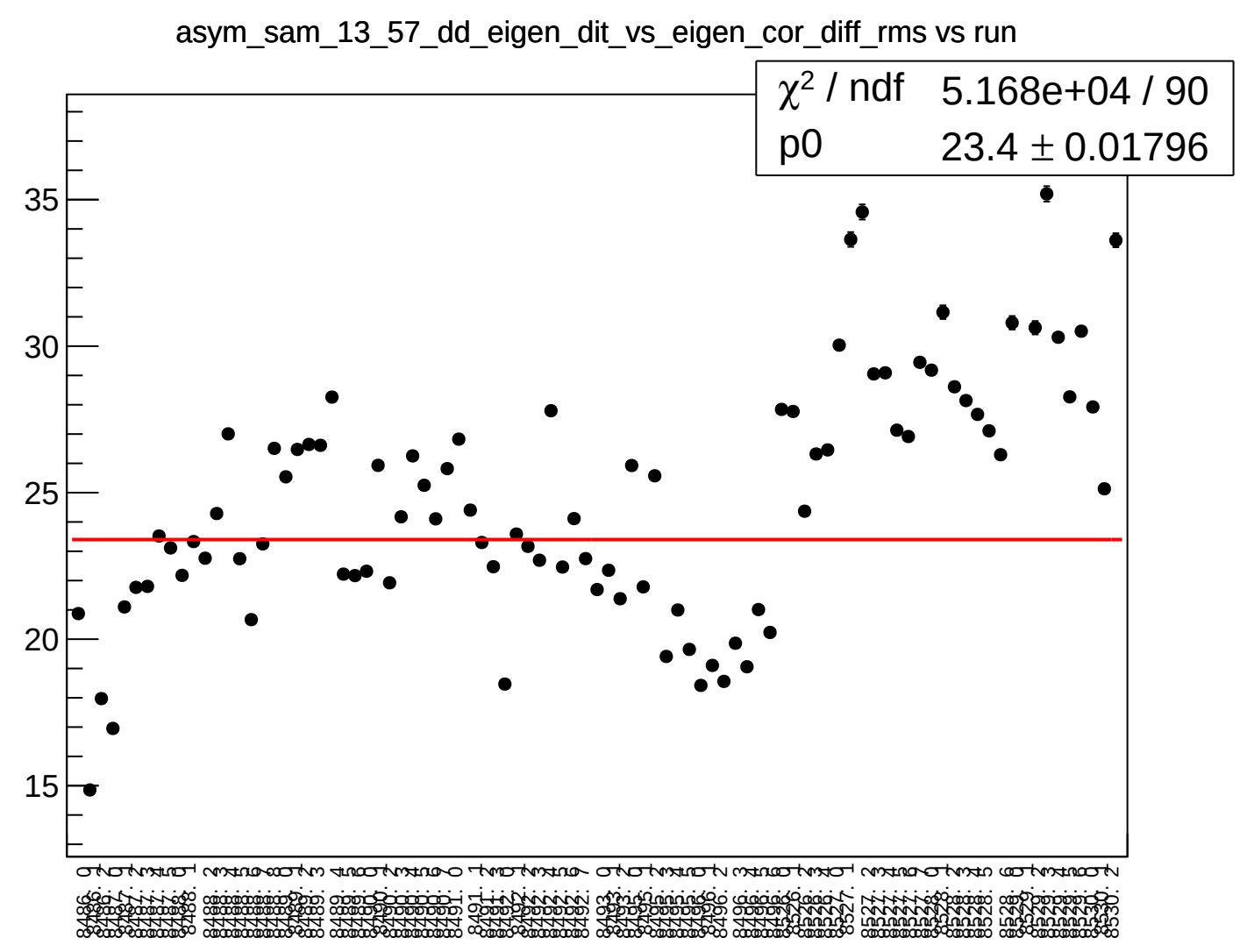

pull1D
Entries 91
Mean −0.3126
Std Dev 0.9941
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

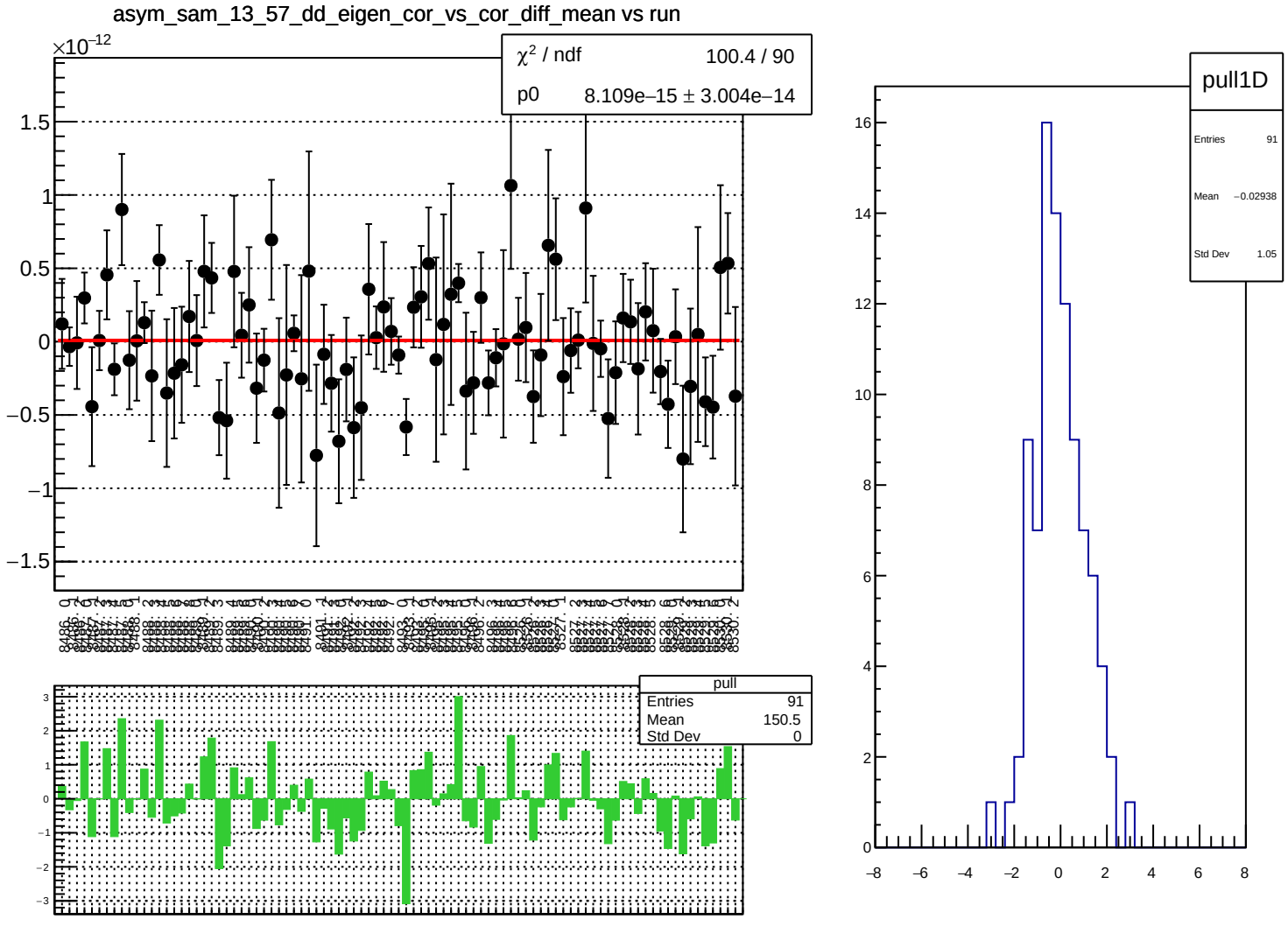

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.529e+05 / 90
p0 0.0001549 ± 1.736e−07
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

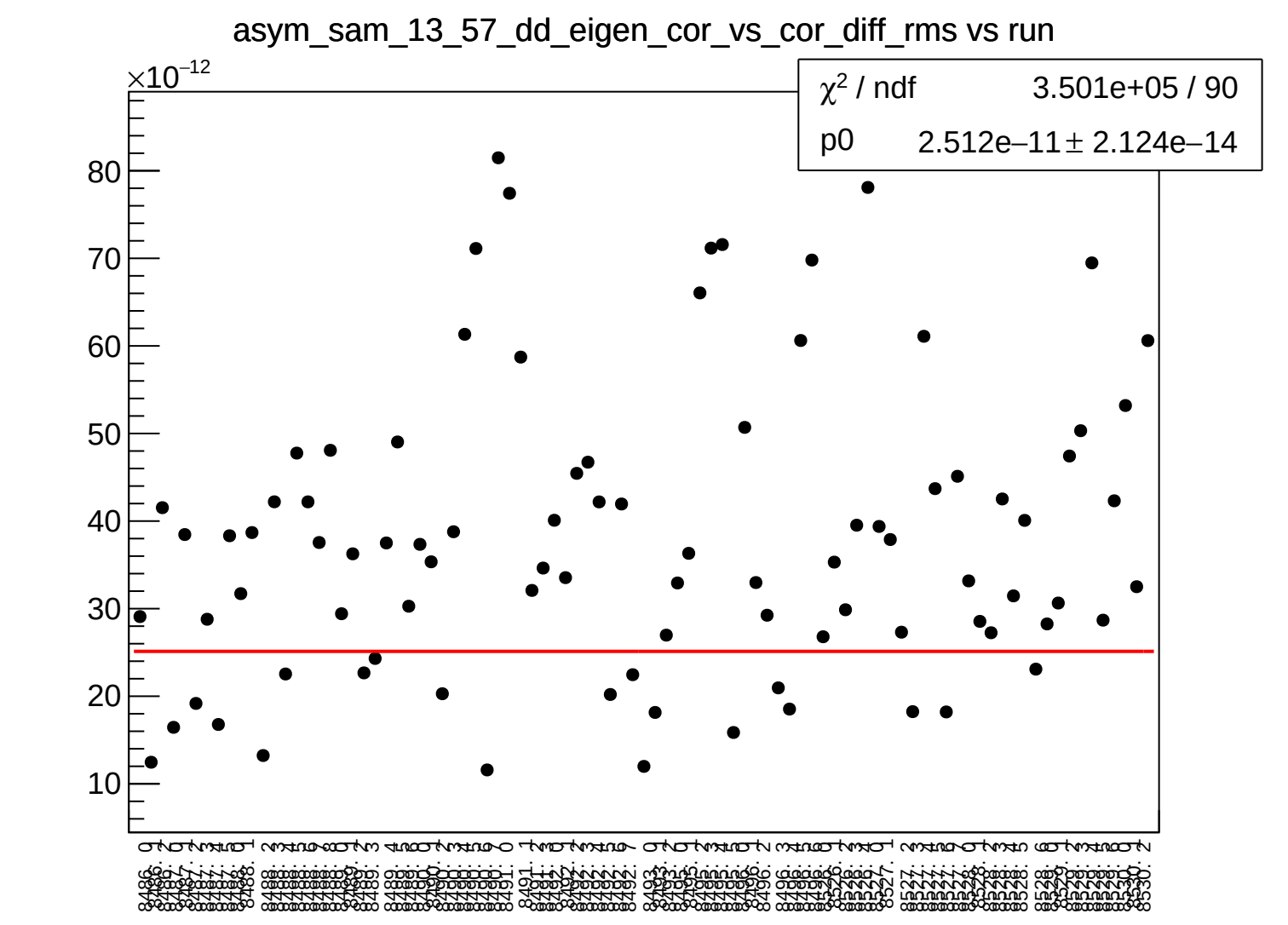

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.95 / 90
p0 0.02703 ± 0.0254
pull
Entries 91
Mean 85.2
Std Dev 0
pull1D
Entries 91
Mean 0.01659
Std Dev 0.9885

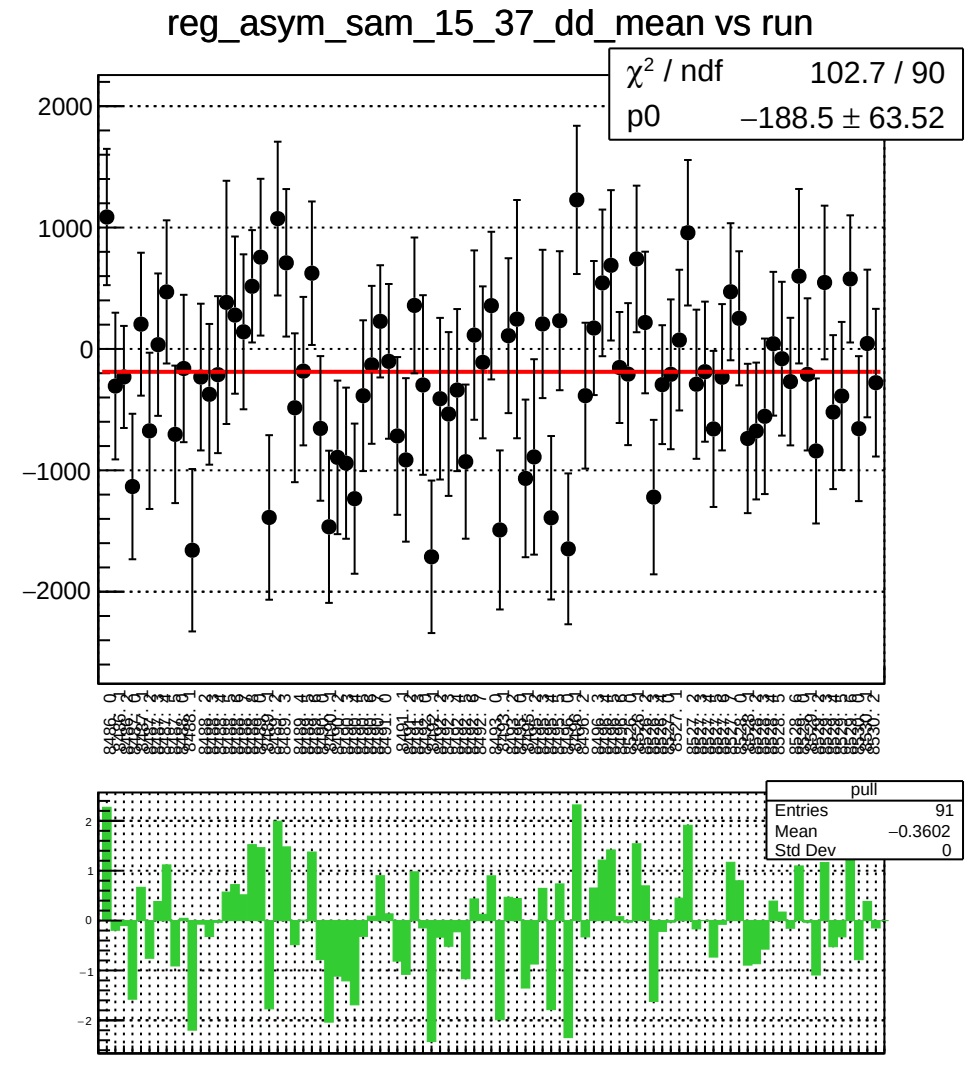

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.168e+04 / 90
p0 23.4 ± 0.01796
35
30
25
20
15

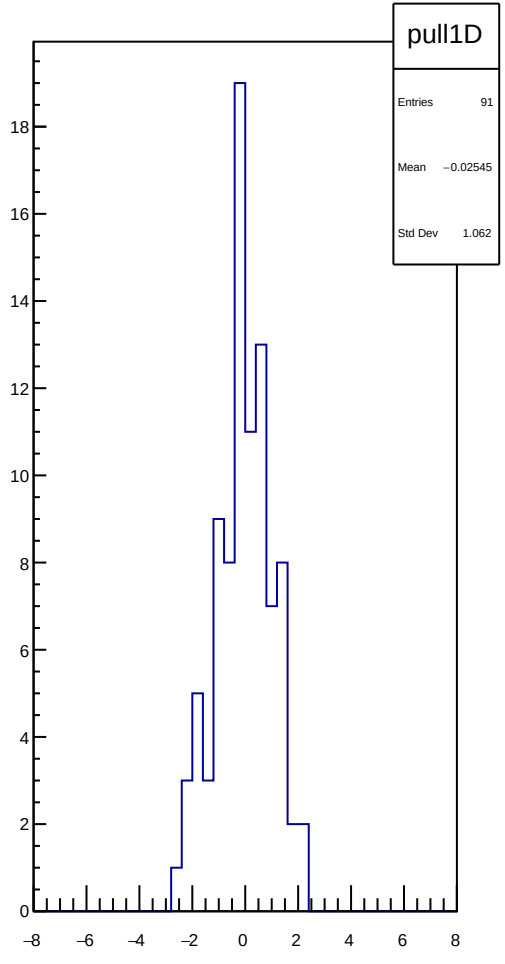

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.95 / 90
p0 0.02703 ± 0.0254
pull
Entries 91
Mean 85.2
Std Dev 0
pull1D
Entries 91
Mean 0.01659
Std Dev 0.9885

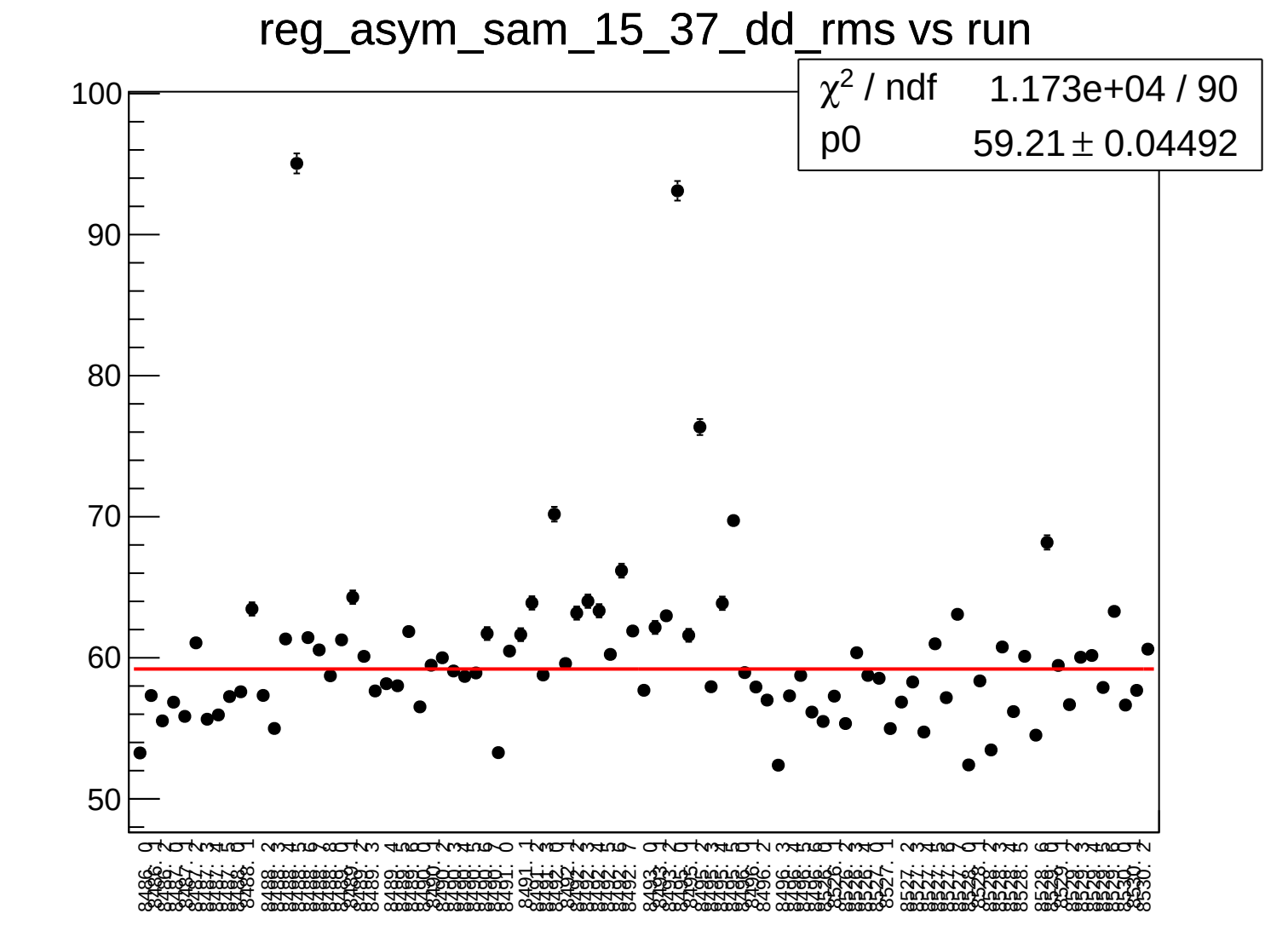

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.168e+04 / 90
p0 23.4 ± 0.01796
35
30
25
20
15

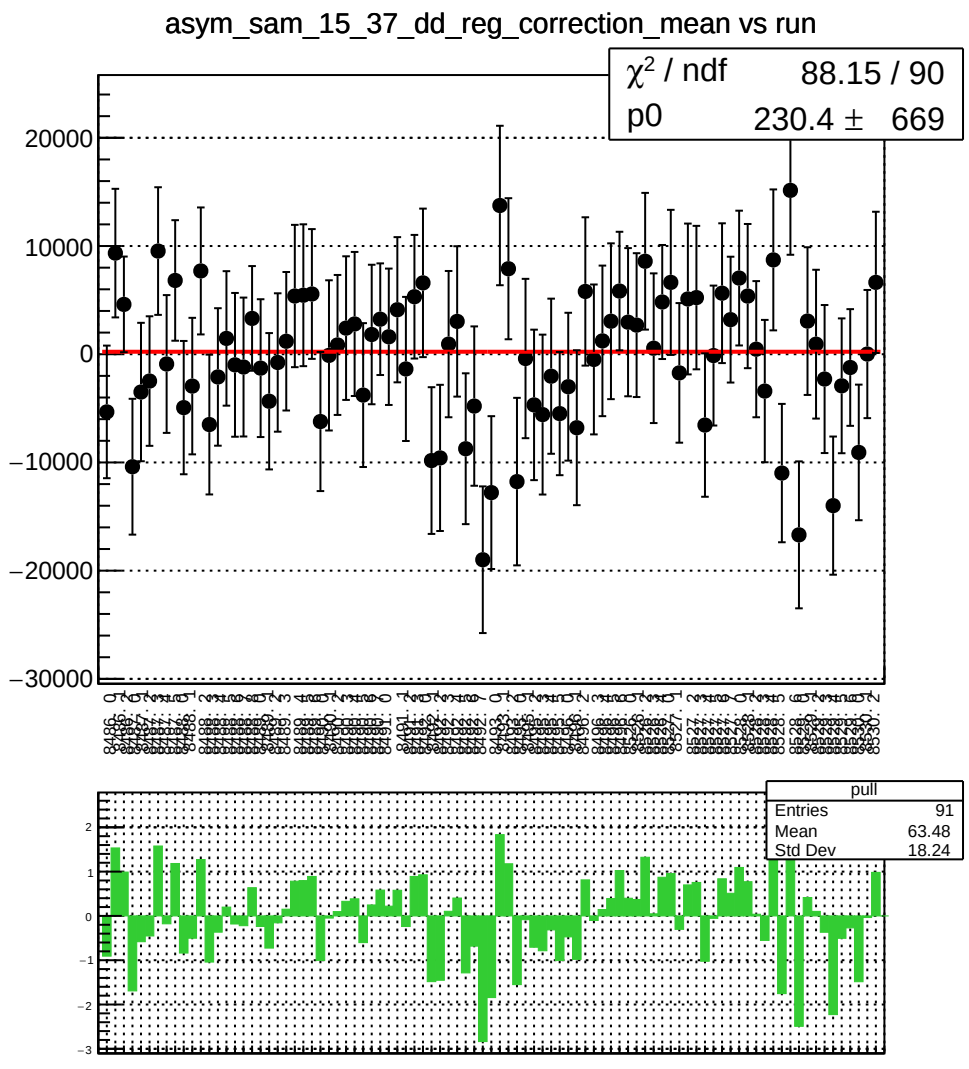

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 100.4 / 90
p0 8.109e−15 ± 3.004e−14
1.5
1
0.5
0
−0.5
−1
−1.5
pull
Entries 91
Mean 150.5
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean −0.02938
Std Dev 1.05
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

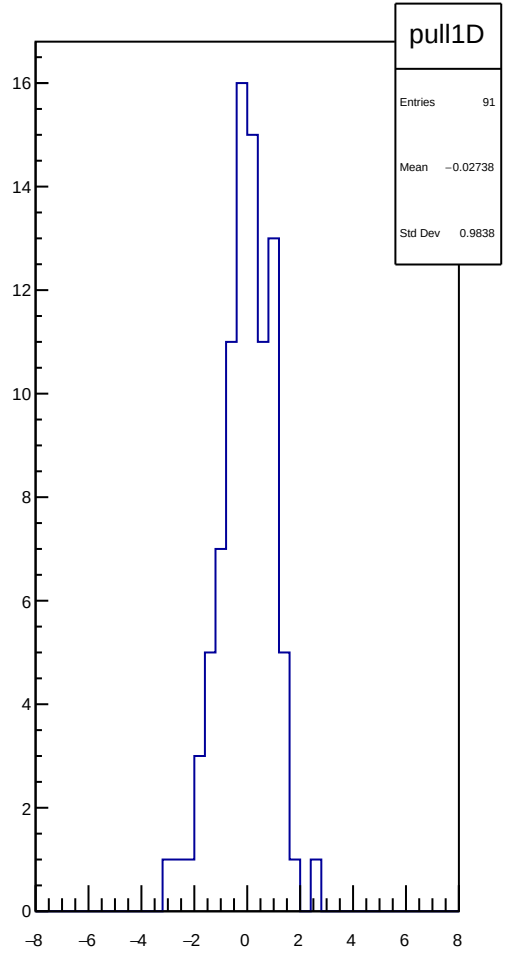

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.501e+05 / 90
p0 2.512e−11 ± 2.124e−14
80
70
60
50
40
30
20
10

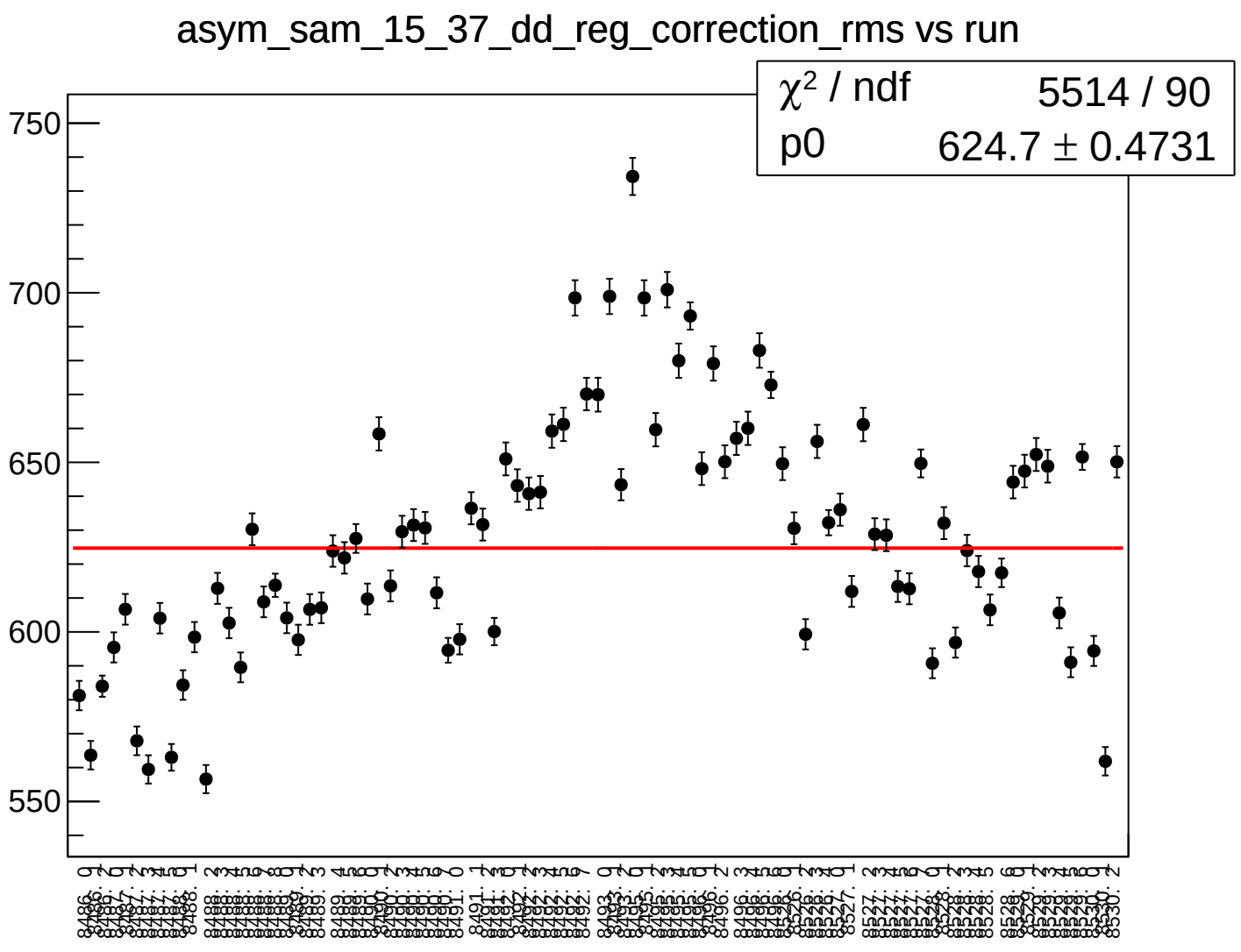

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 102.7 / 90
p0 −188.5 ± 63.52
2000
1000
0
−1000
−2000
pull
Entries 91
Mean −0.3602
Std Dev 0
2
1
0
−1
−2

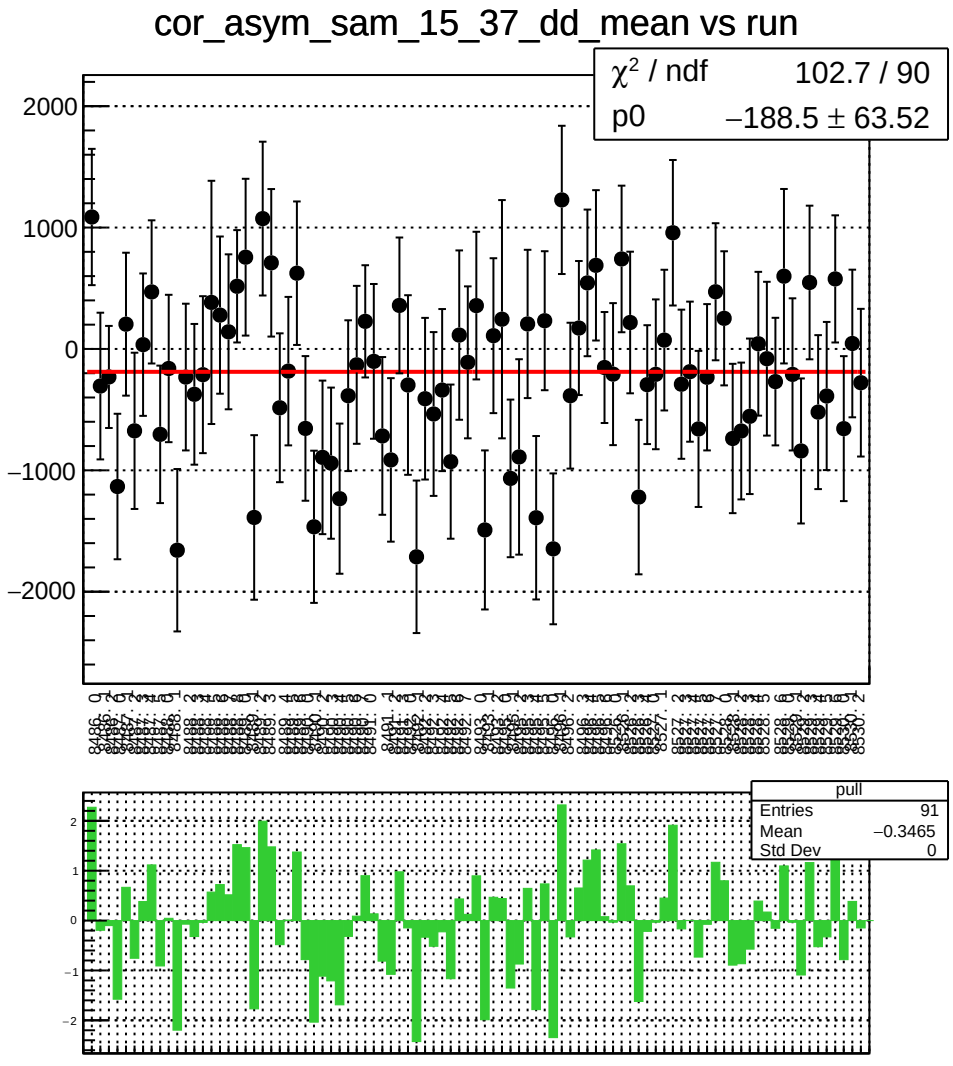

pull1D
Entries 91
Mean −0.02545
Std Dev 1.062
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

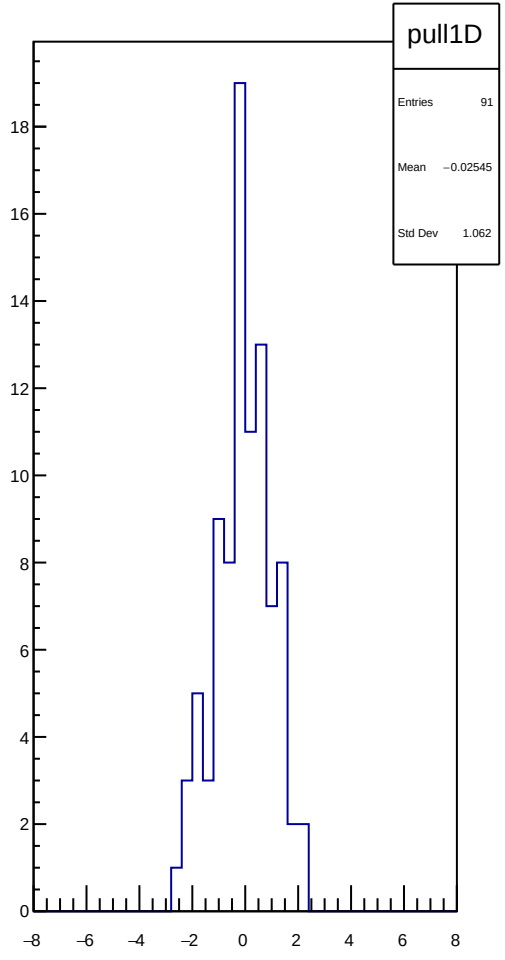

reg_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 1.173e+04 / 90
p0 59.21 ± 0.04492
100
90
80
70
60
50

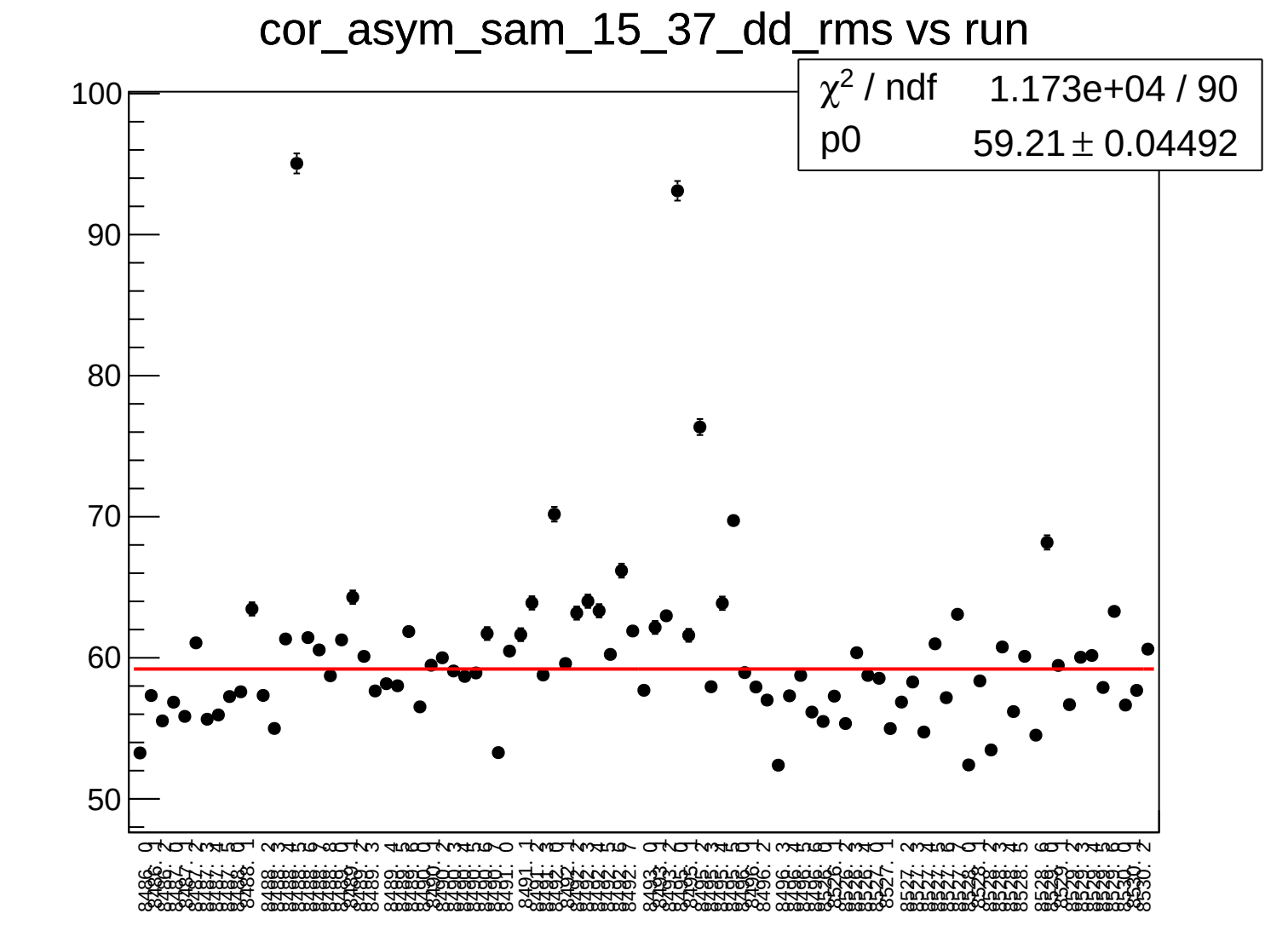

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 88.15 / 90
p0 230.4 ± 669
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 63.48
Std Dev 18.24
2
1
0
−1
−2
−3

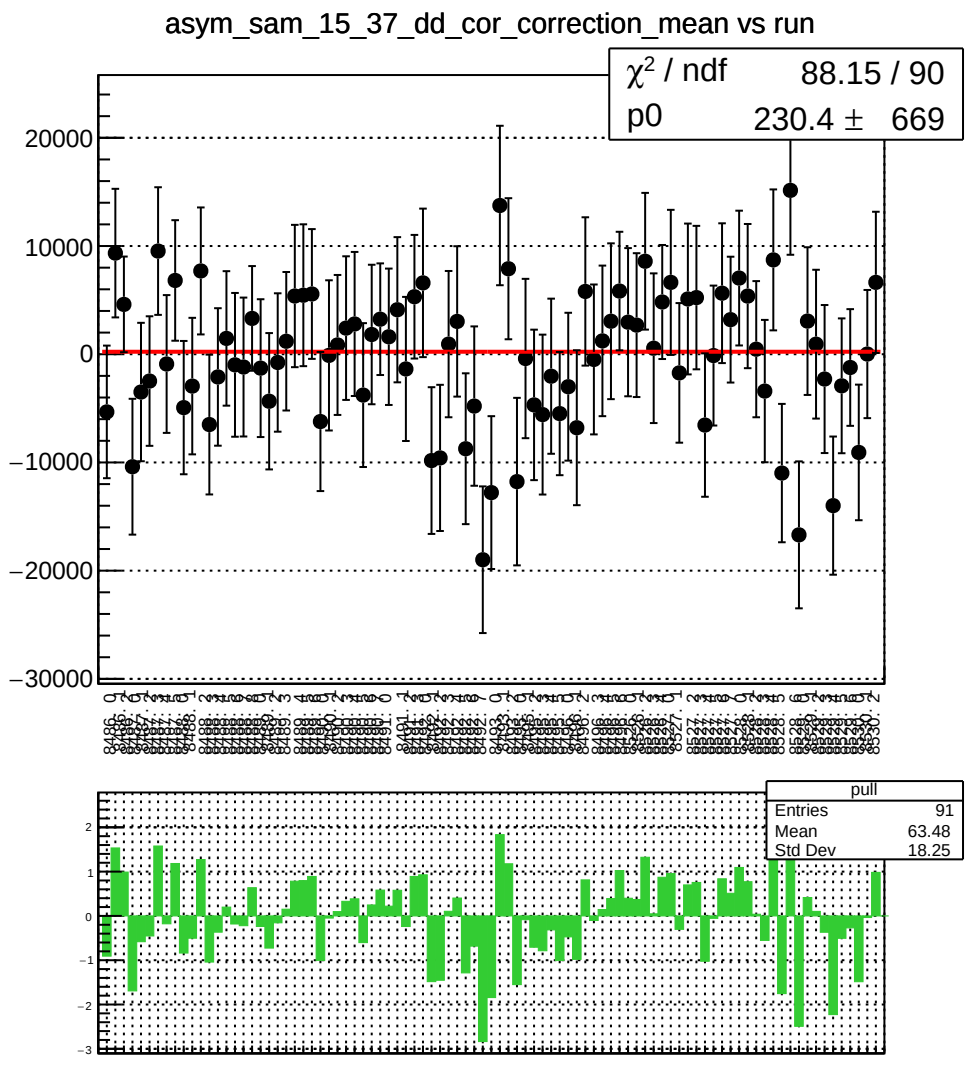

pull1D
Entries 91
Mean −0.02738
Std Dev 0.9838
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

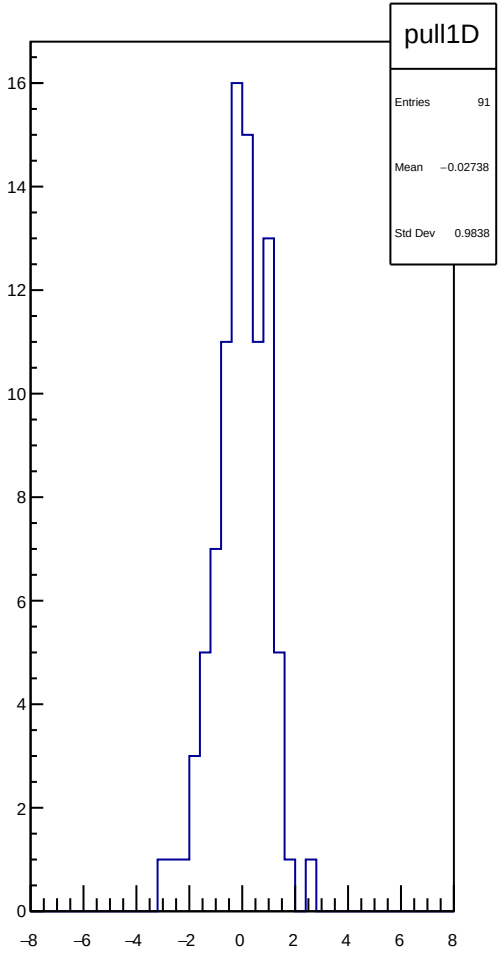

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 5514 / 90
p0 624.7 ± 0.4731
750
700
650
600
550

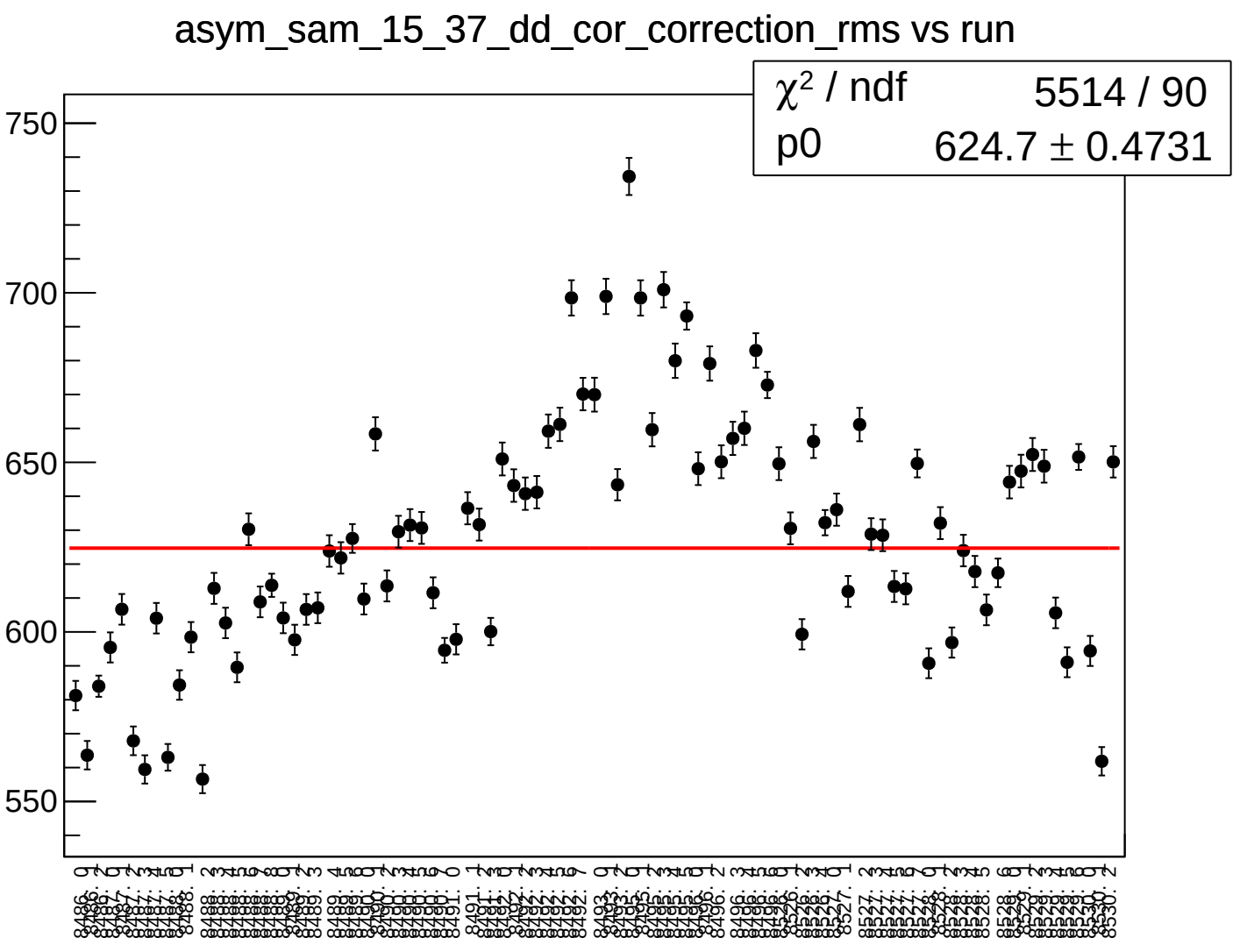

cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 102.7 / 90
p0 −188.5 ± 63.52
2000
1000
0
−1000
−2000
pull
Entries 91
Mean −0.3465
Std Dev 0
2
1
0
−1
−2

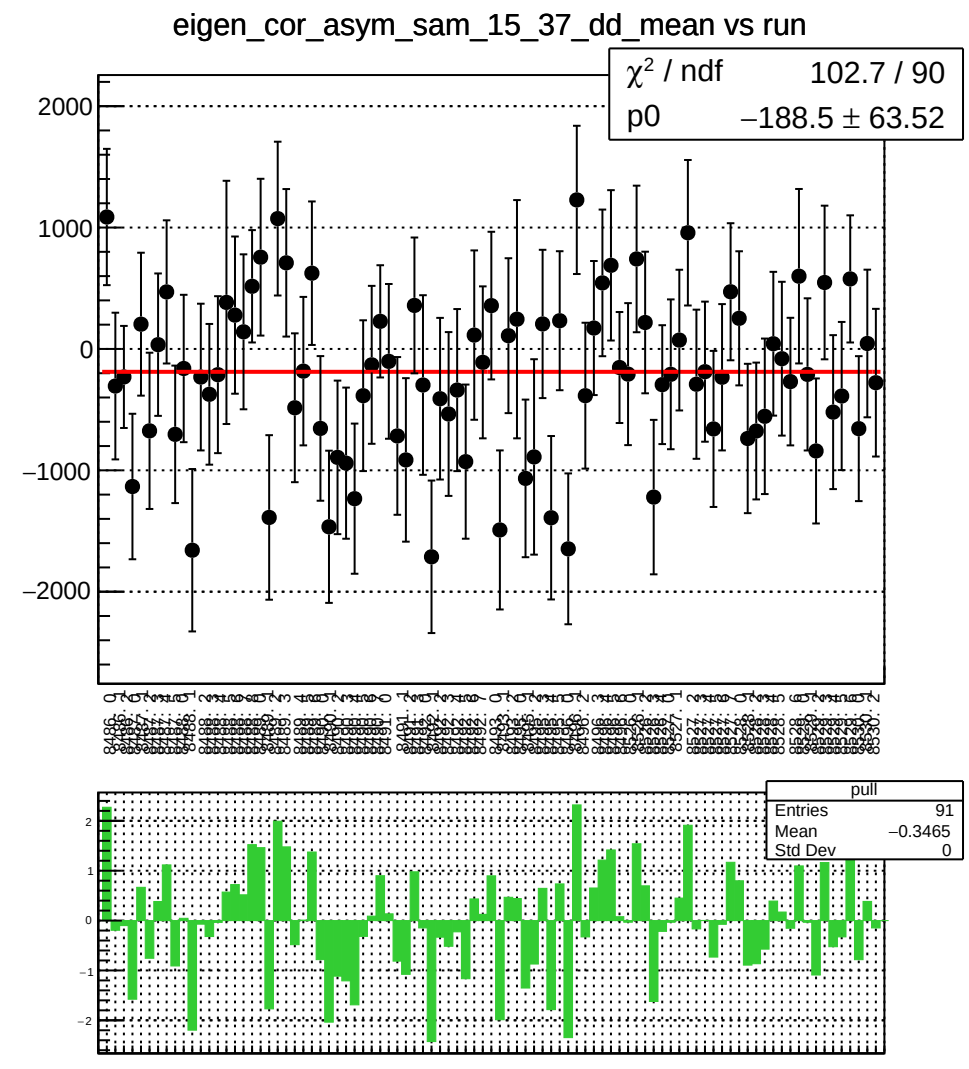

pull1D
Entries 91
Mean −0.02545
Std Dev 1.062
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

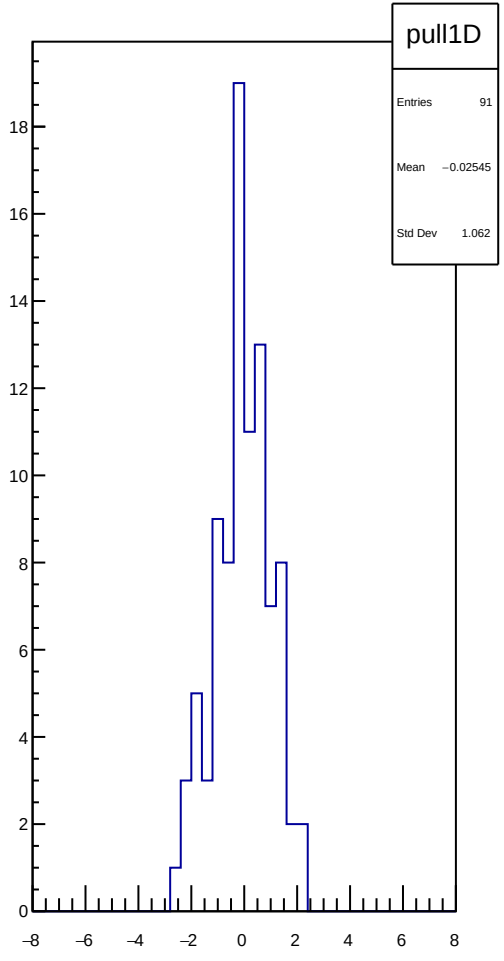

cor_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 1.173e+04 / 90
p0 59.21 ± 0.04492
100
90
80
70
60
50

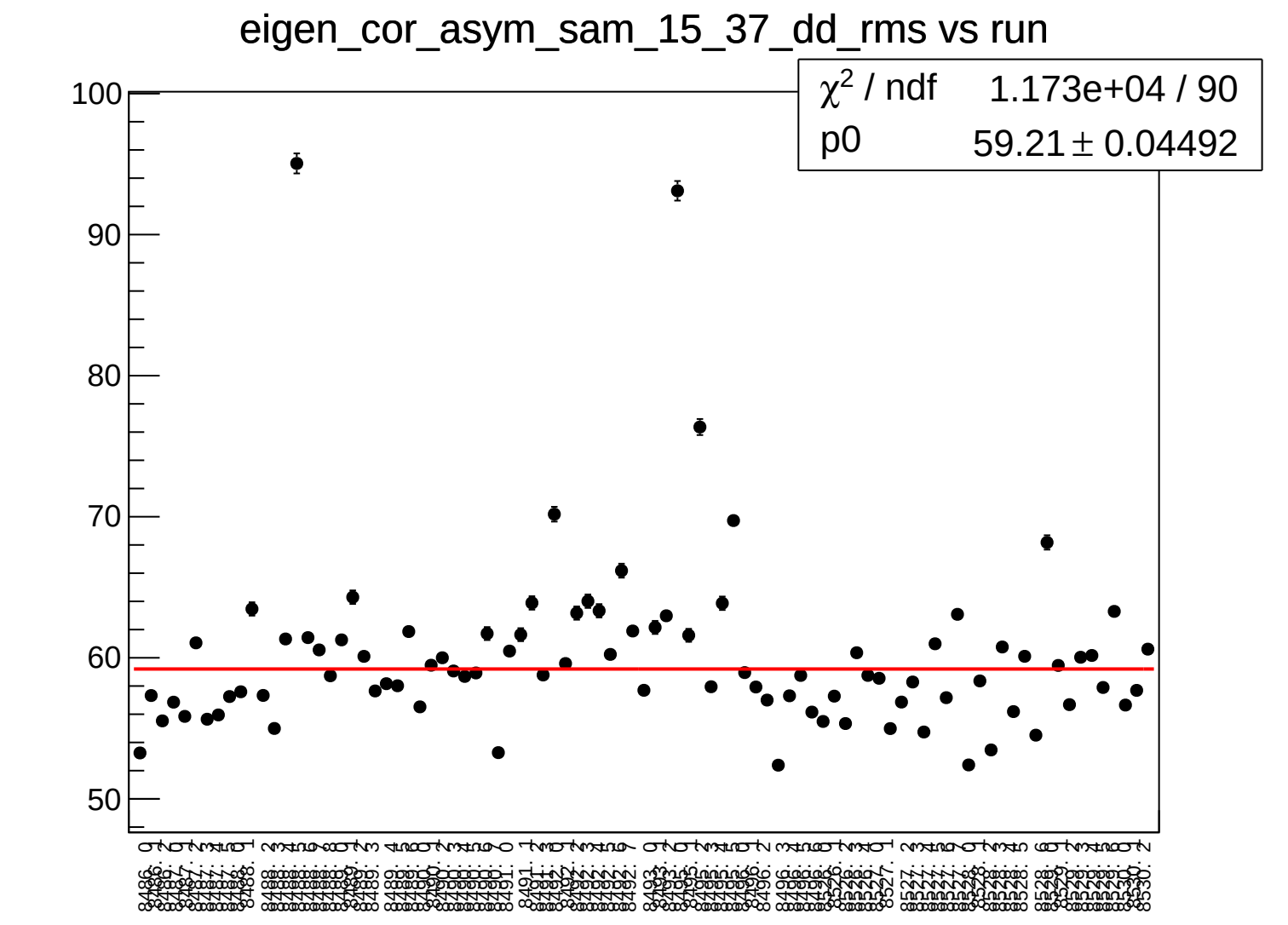

asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 88.15 / 90
p0 230.4 ± 669
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 63.48
Std Dev 18.25
2
1
0
−1
−2
−3

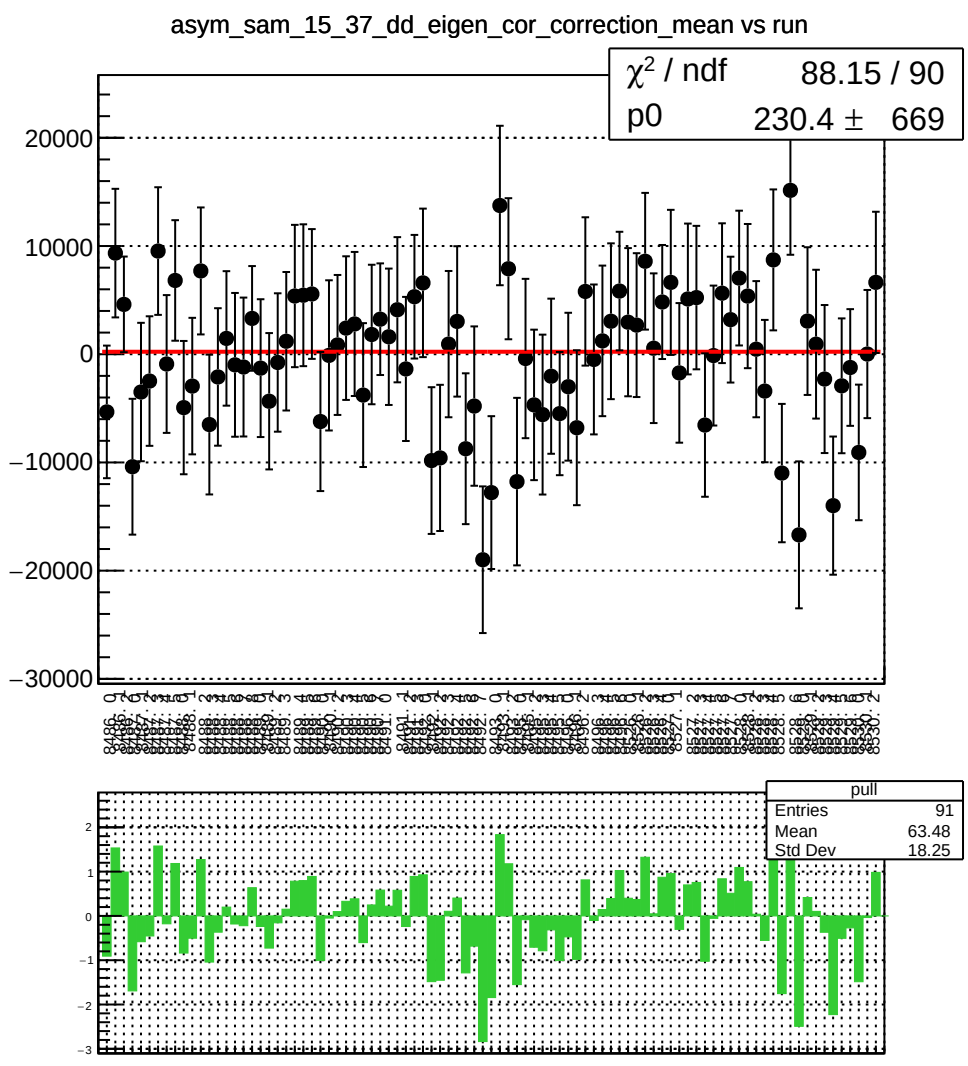

pull1D
Entries 91
Mean −0.02738
Std Dev 0.9838
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

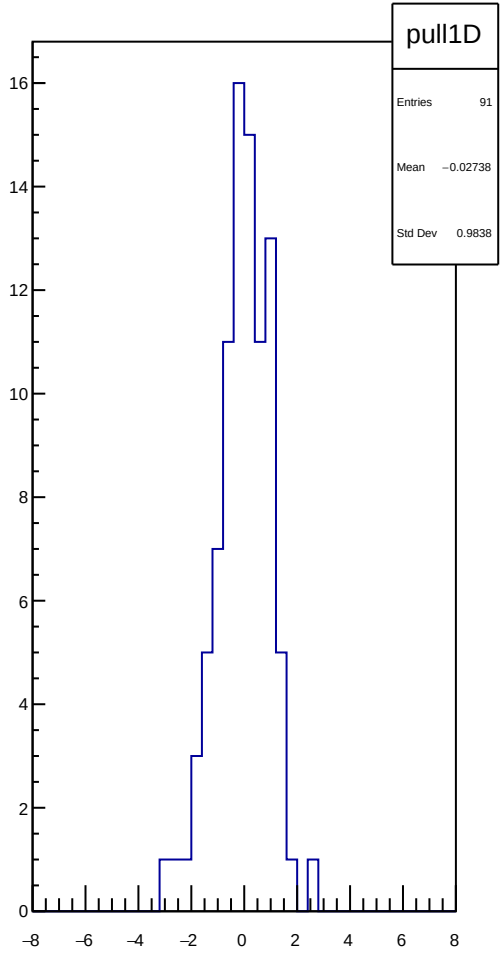

asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 5514 / 90
p0 624.7 ± 0.4731
750
700
650
600
550

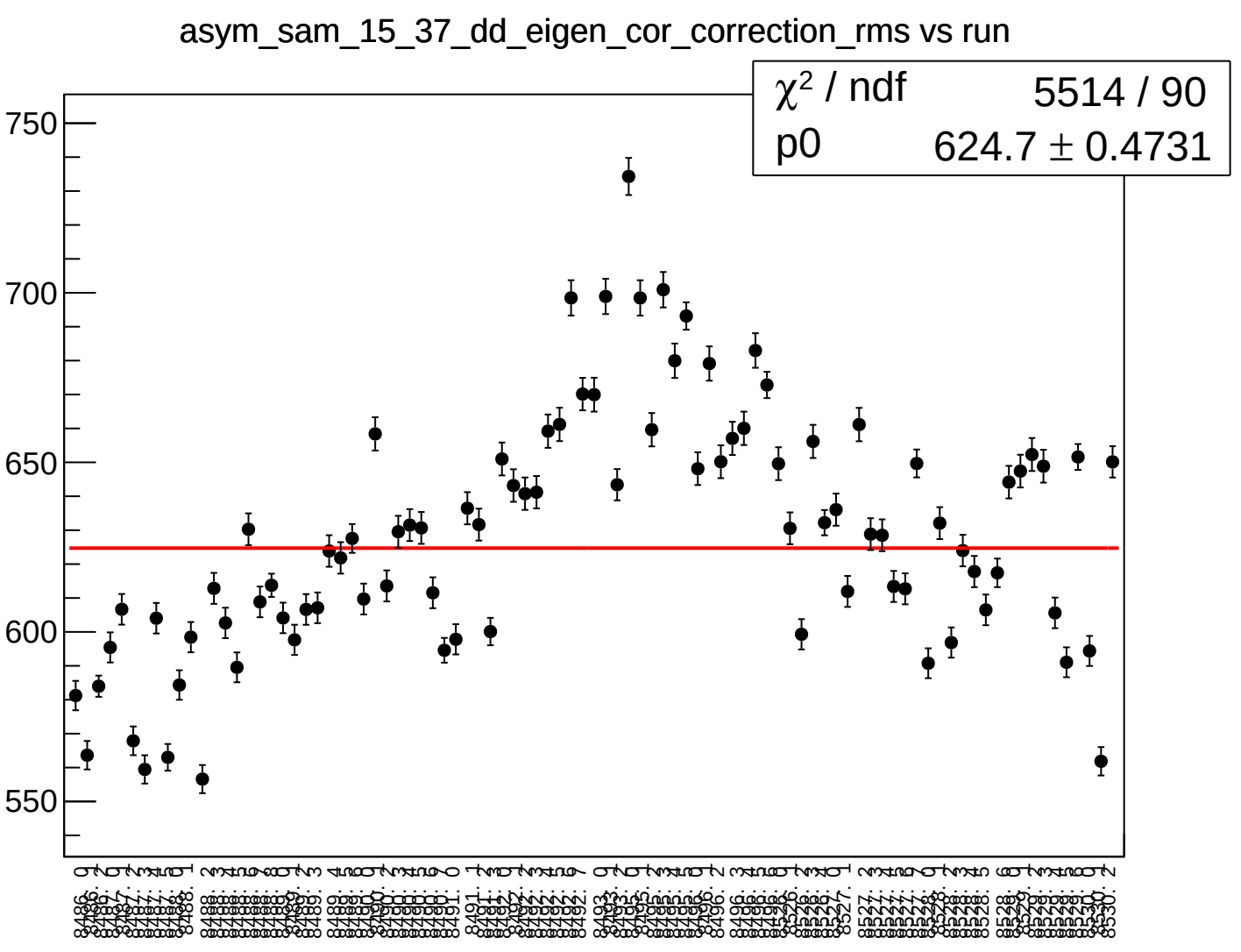

eigen_cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 102.7 / 90
p0 −188.5 ± 63.52
2000
1000
0
−1000
−2000
pull
Entries 91
Mean −0.3465
Std Dev 0
2
1
0
−1
−2

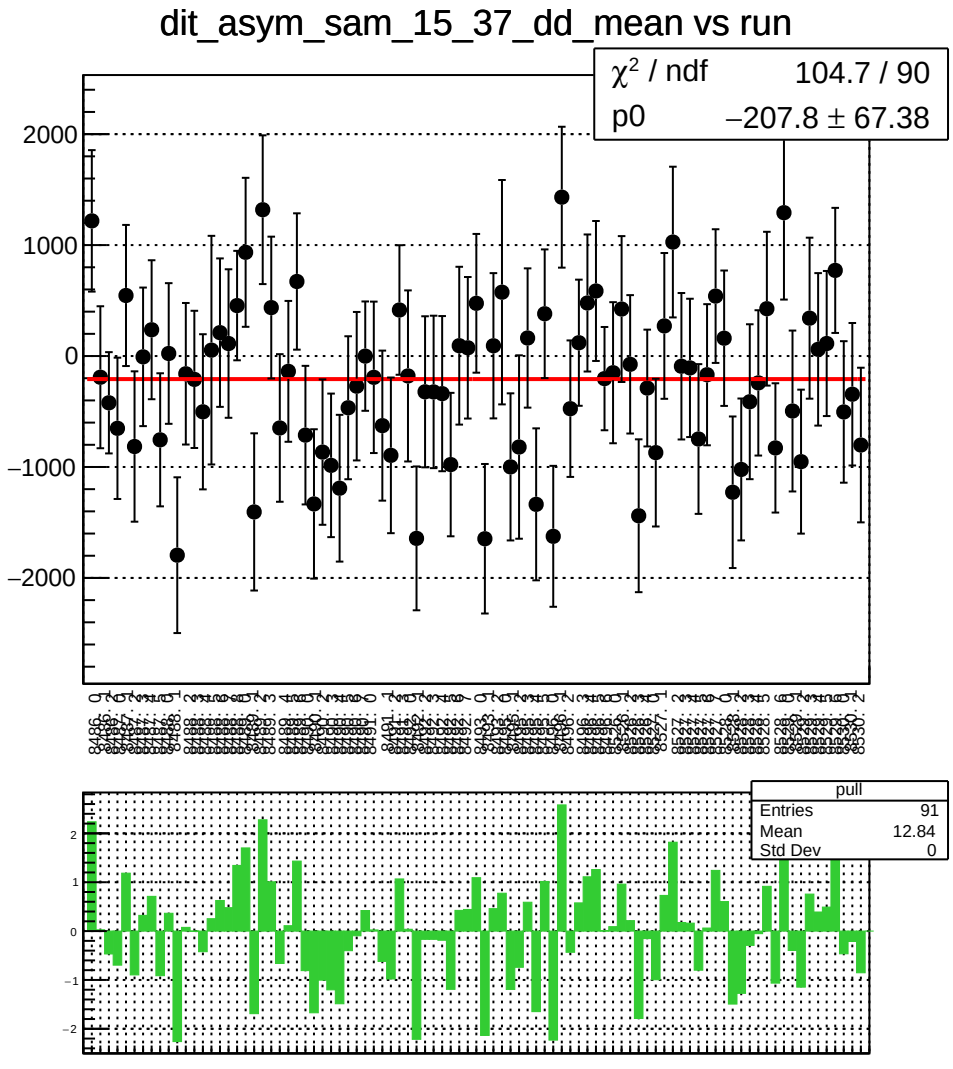

pull1D
Entries 91
Mean −0.02545
Std Dev 1.062
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

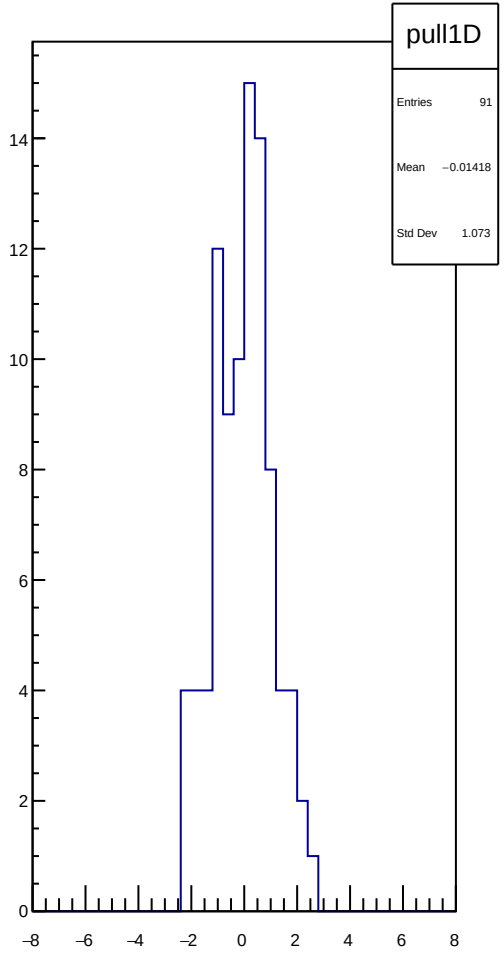

eigen_cor_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 1.173e+04 / 90
p0 59.21 ± 0.04492
100
90
80
70
60
50

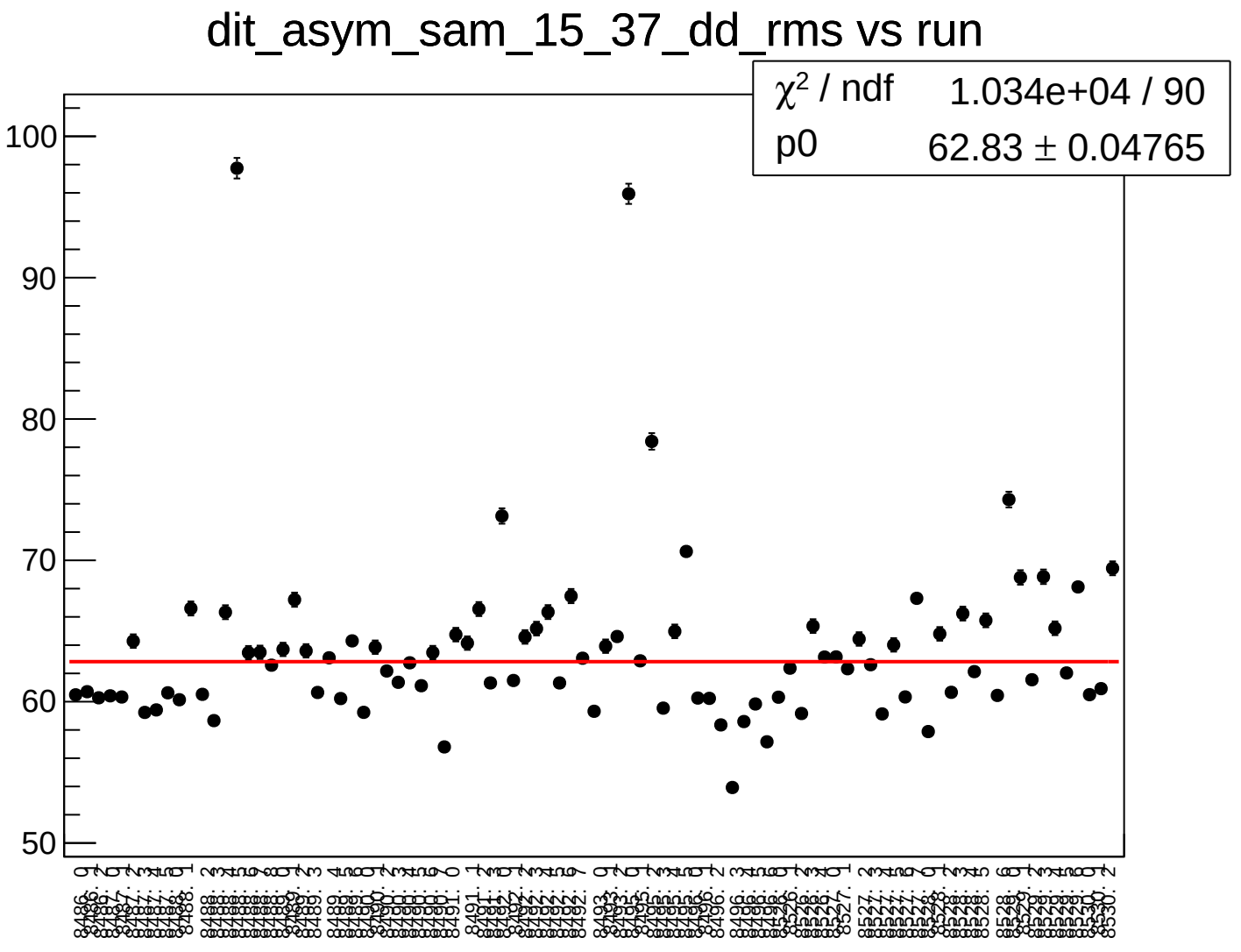

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 88.15 / 90
p0 230.4 ± 669
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 63.48
Std Dev 18.25
2
1
0
−1
−2
−3

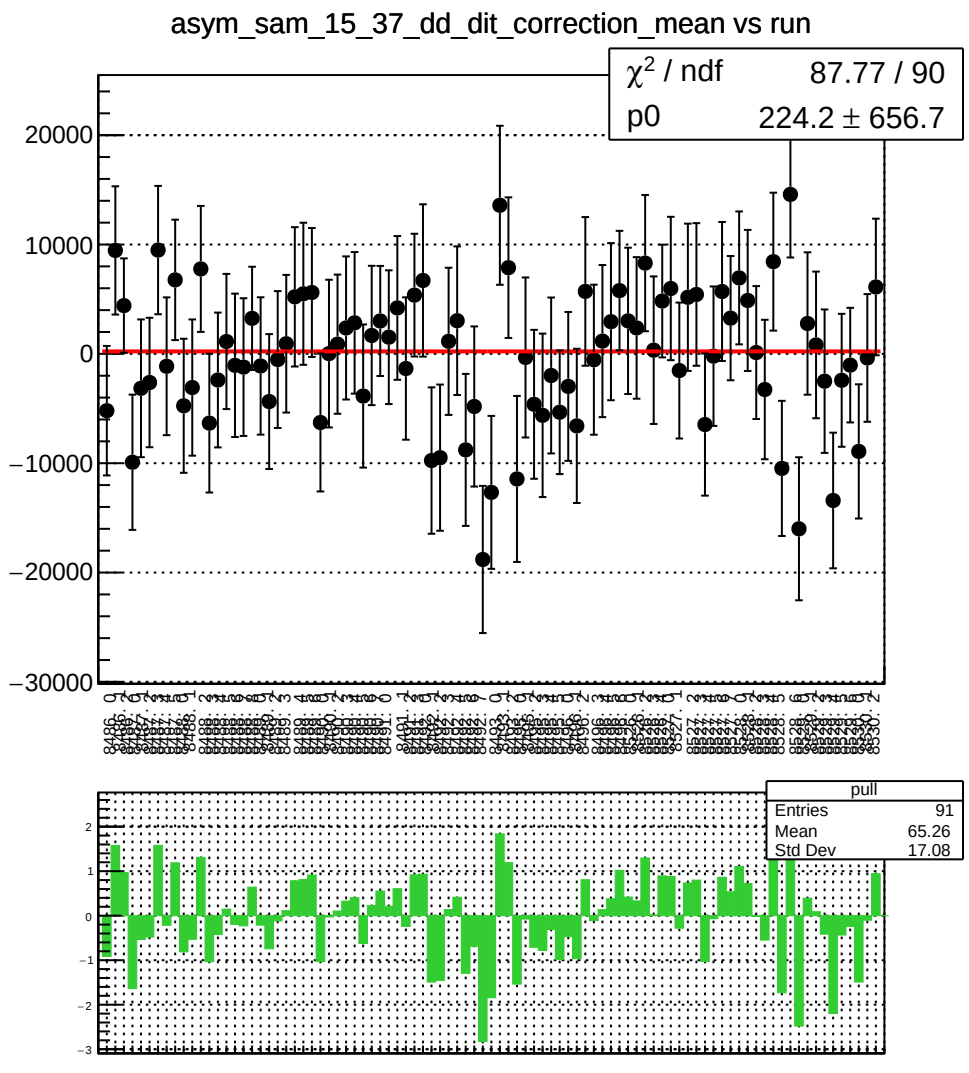

pull1D
Entries 91
Mean −0.02738
Std Dev 0.9838
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

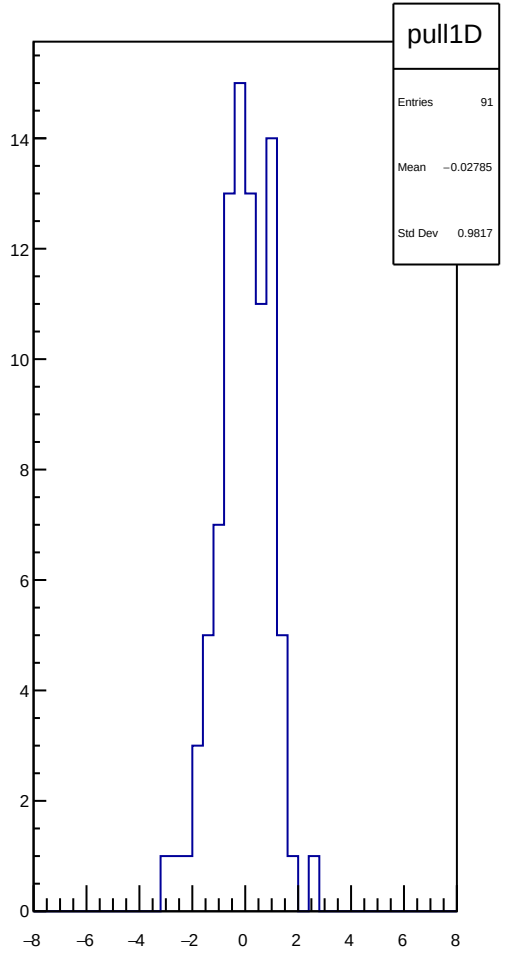

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 5514 / 90
p0 624.7 ± 0.4731
750
700
650
600
550


dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 104.7 / 90
p0 −207.8 ± 67.38
2000
1000
0
−1000
−2000
pull
Entries 91
Mean 12.84
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 91
Mean −0.01418
Std Dev 1.073
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.034e+04 / 90
p0 62.83 ± 0.04765
100
90
80
70
60
50


asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 87.77 / 90
p0 224.2 ± 656.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 65.26
Std Dev 17.08
2
1
0
−1
−2
−3


pull1D
Entries 91
Mean −0.02785
Std Dev 0.9817
14
12
10
8
6
4
2
0
−8
−6
−4
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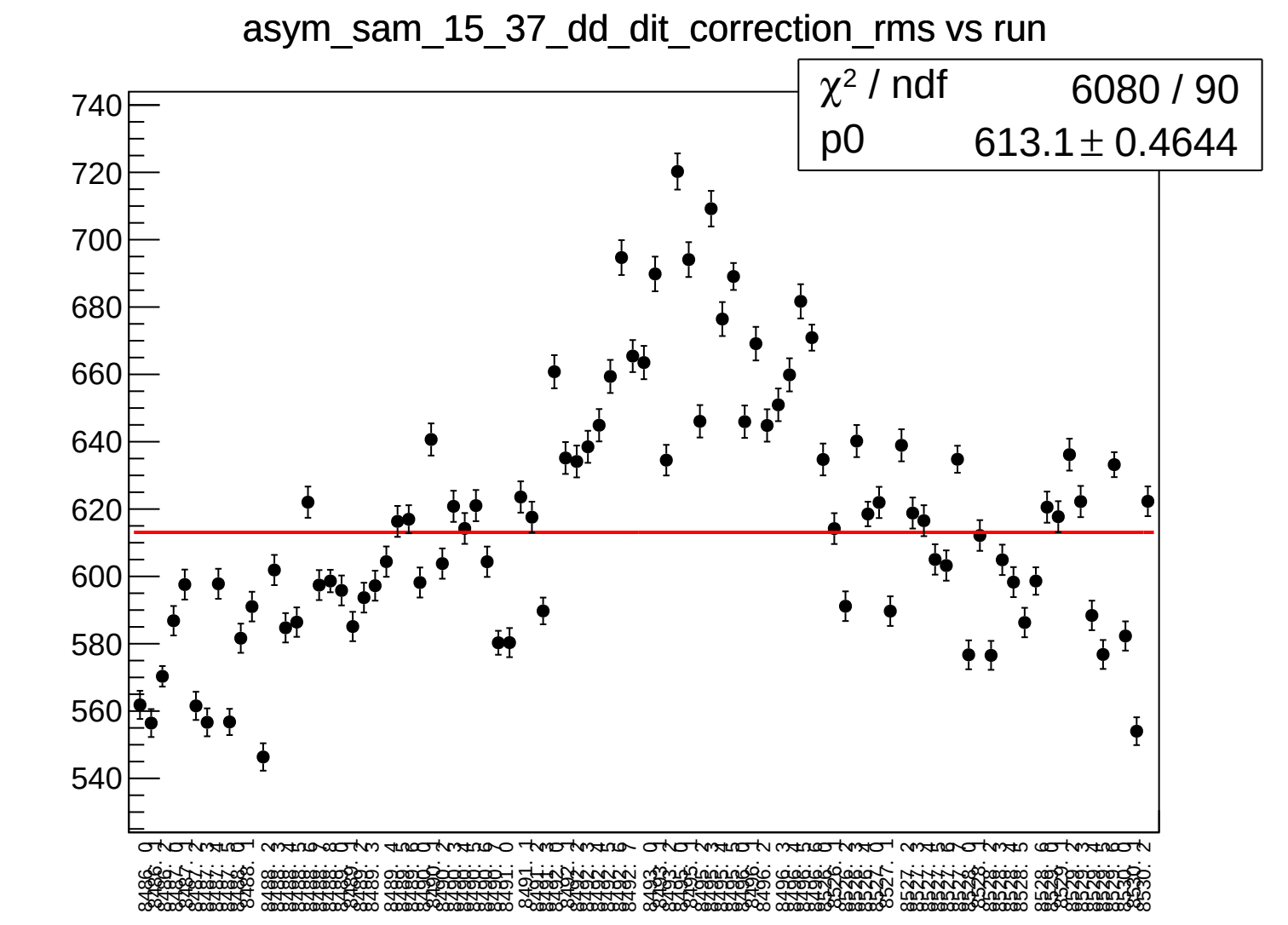
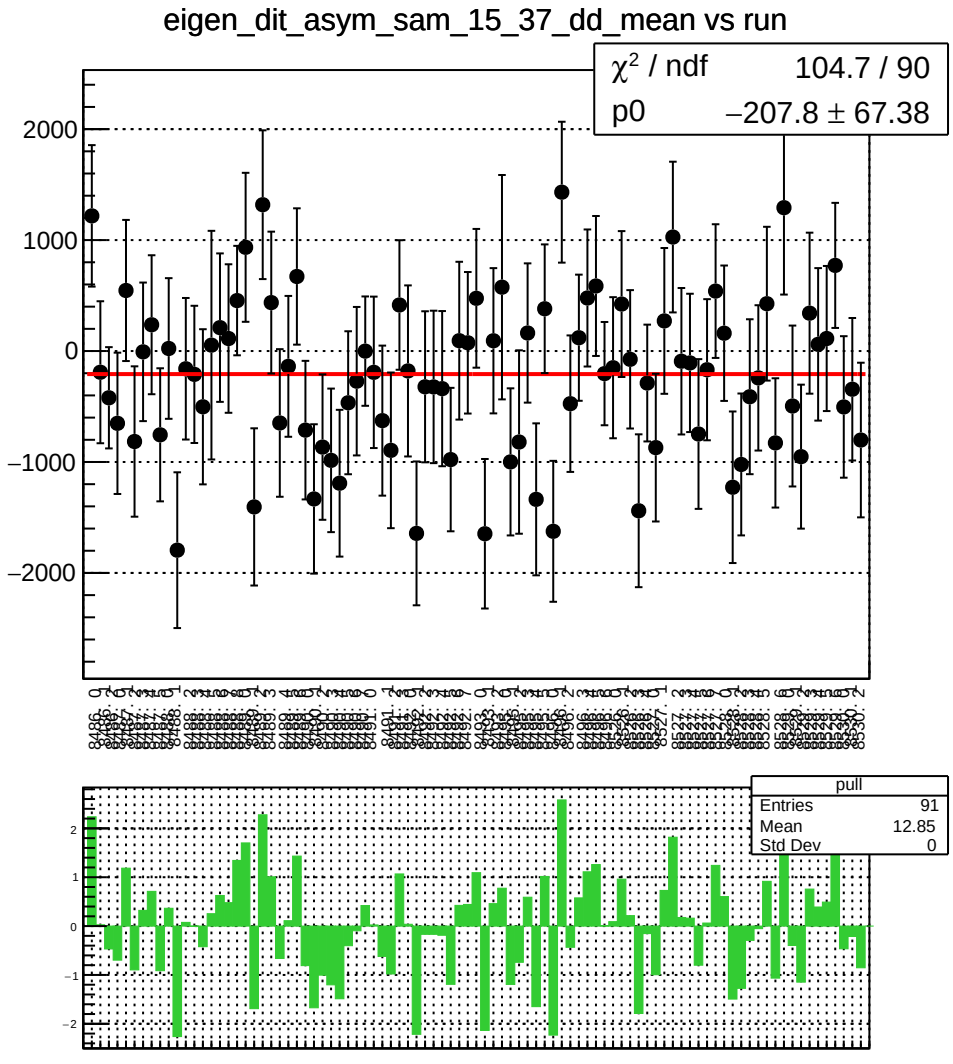
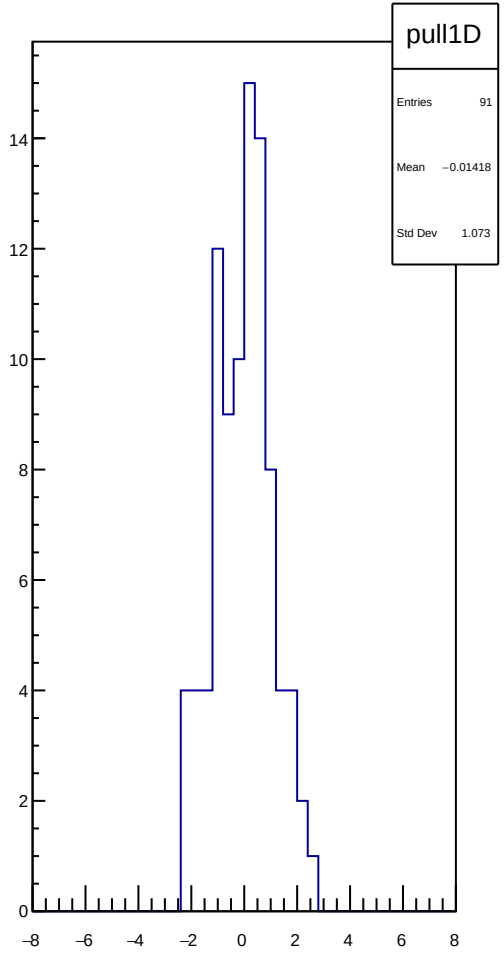
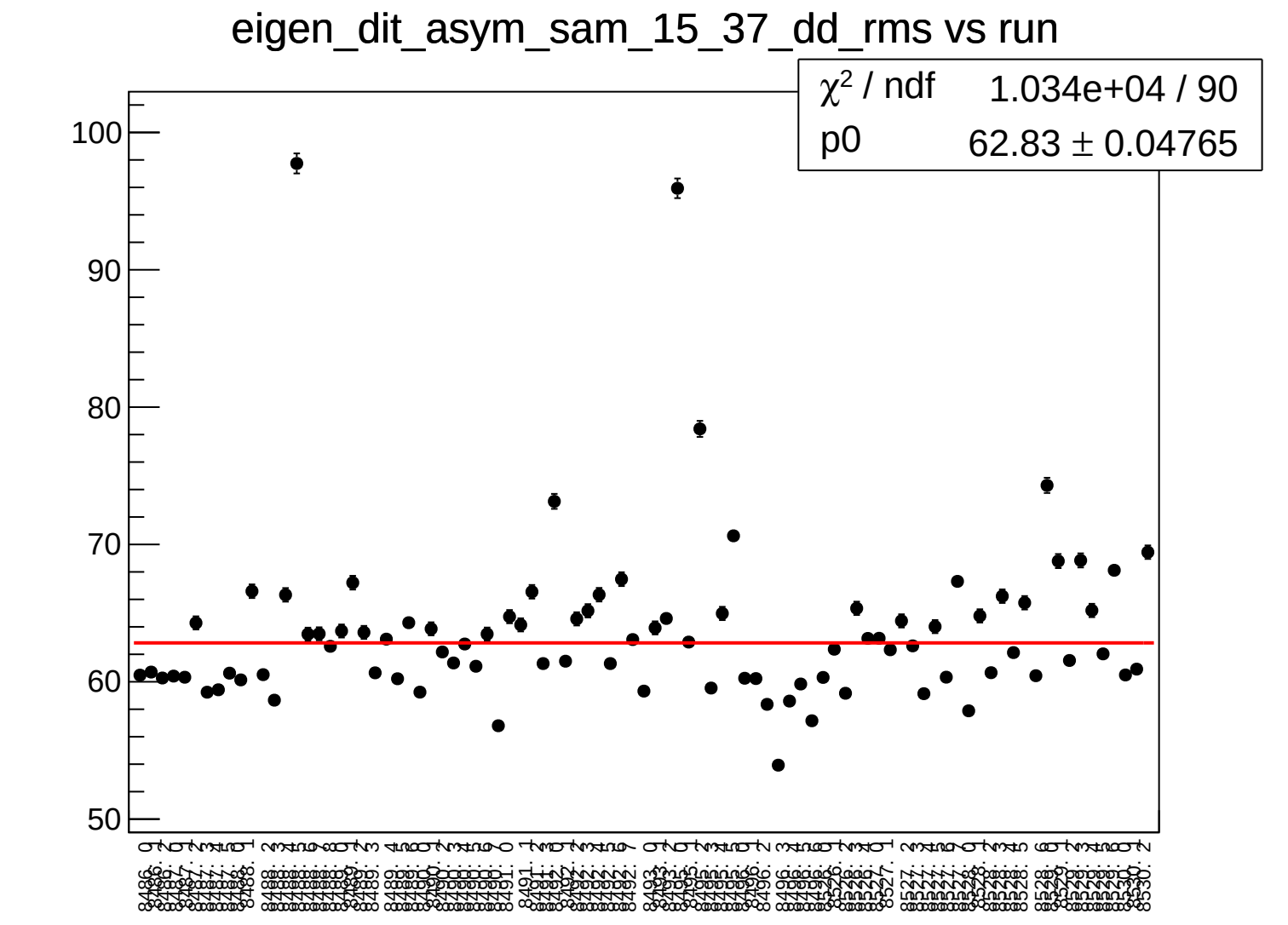
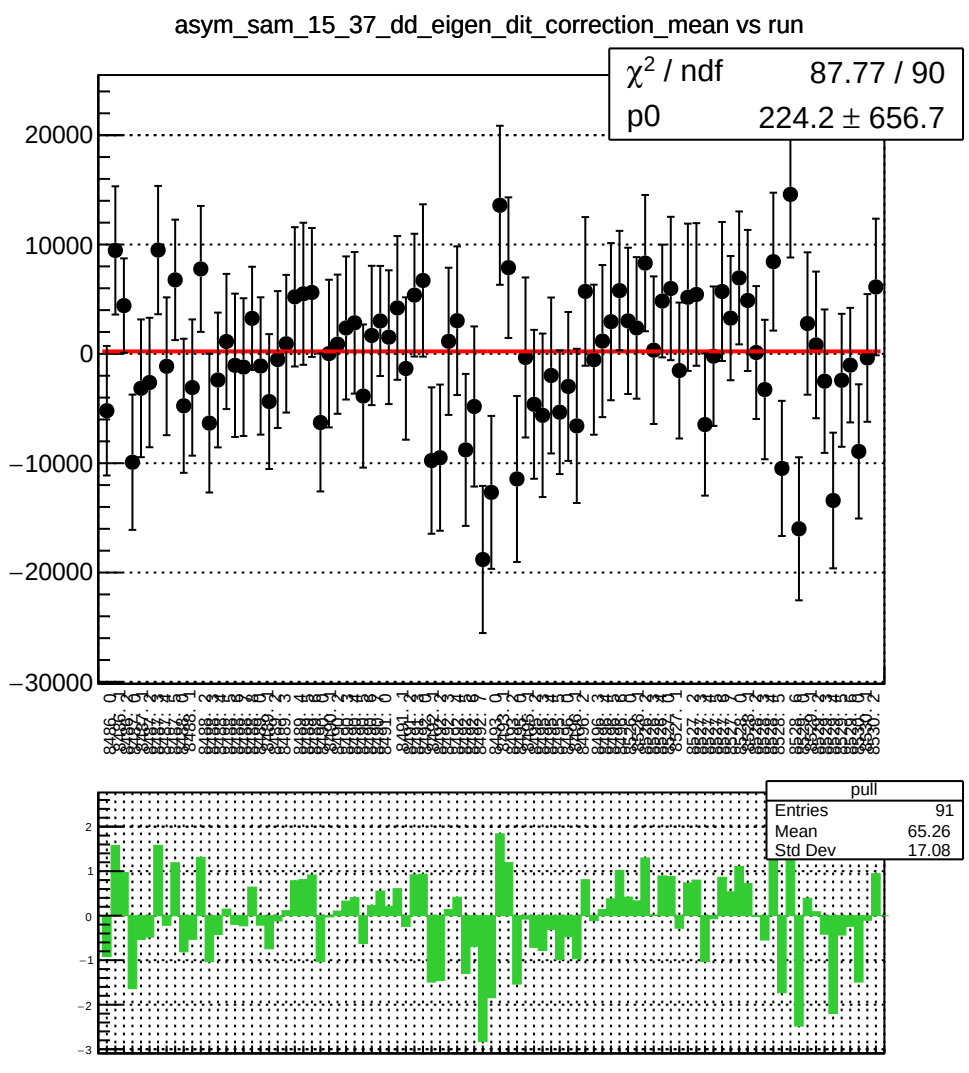
0
2
4
6
8

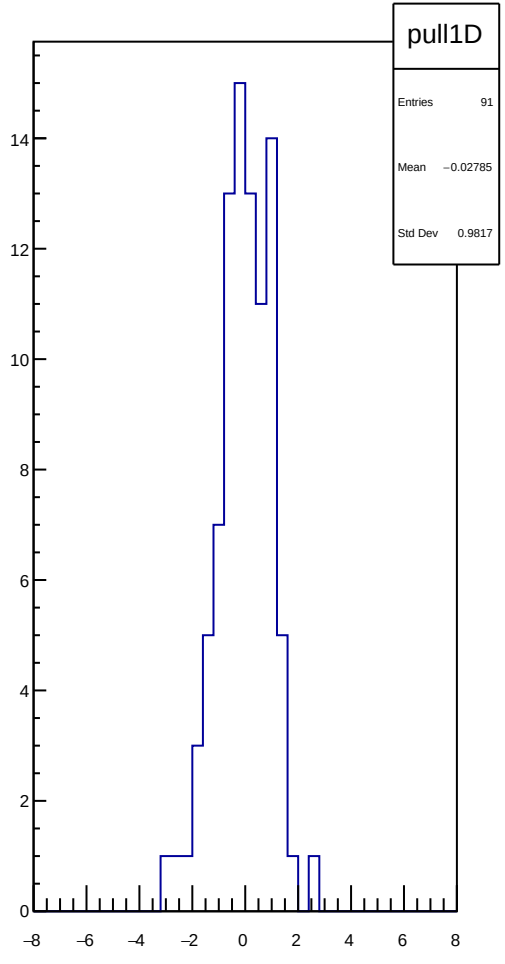

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 6080 / 90
p0 613.1 ± 0.4644
740
720
700
680
660
640
620
600
580
560
540

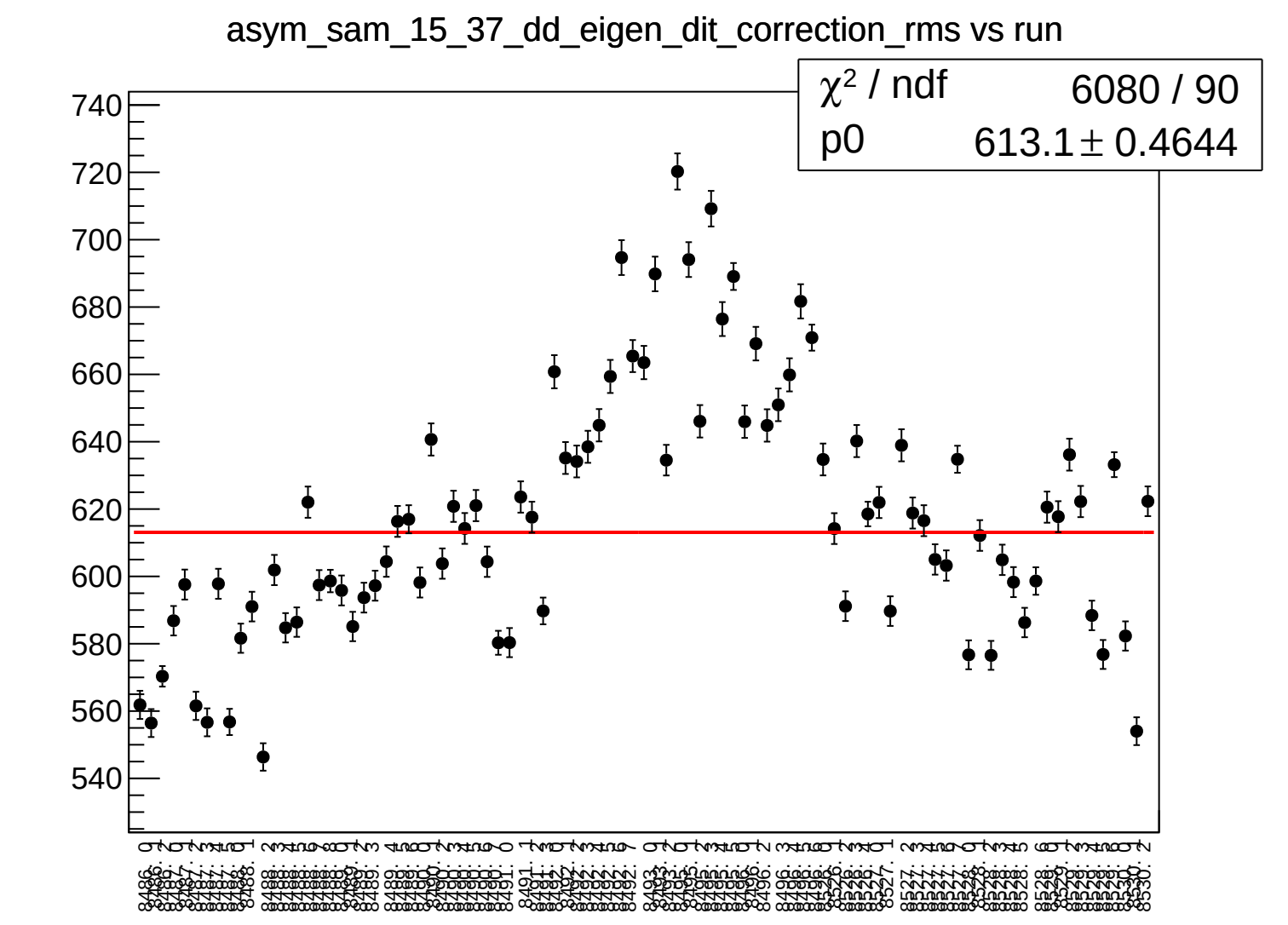

eigen_dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 104.7 / 90
p0 −207.8 ± 67.38
2000
1000
0
−1000
−2000
pull
Entries 91
Mean 12.85
Std Dev 0
2
1
0
−1
−2

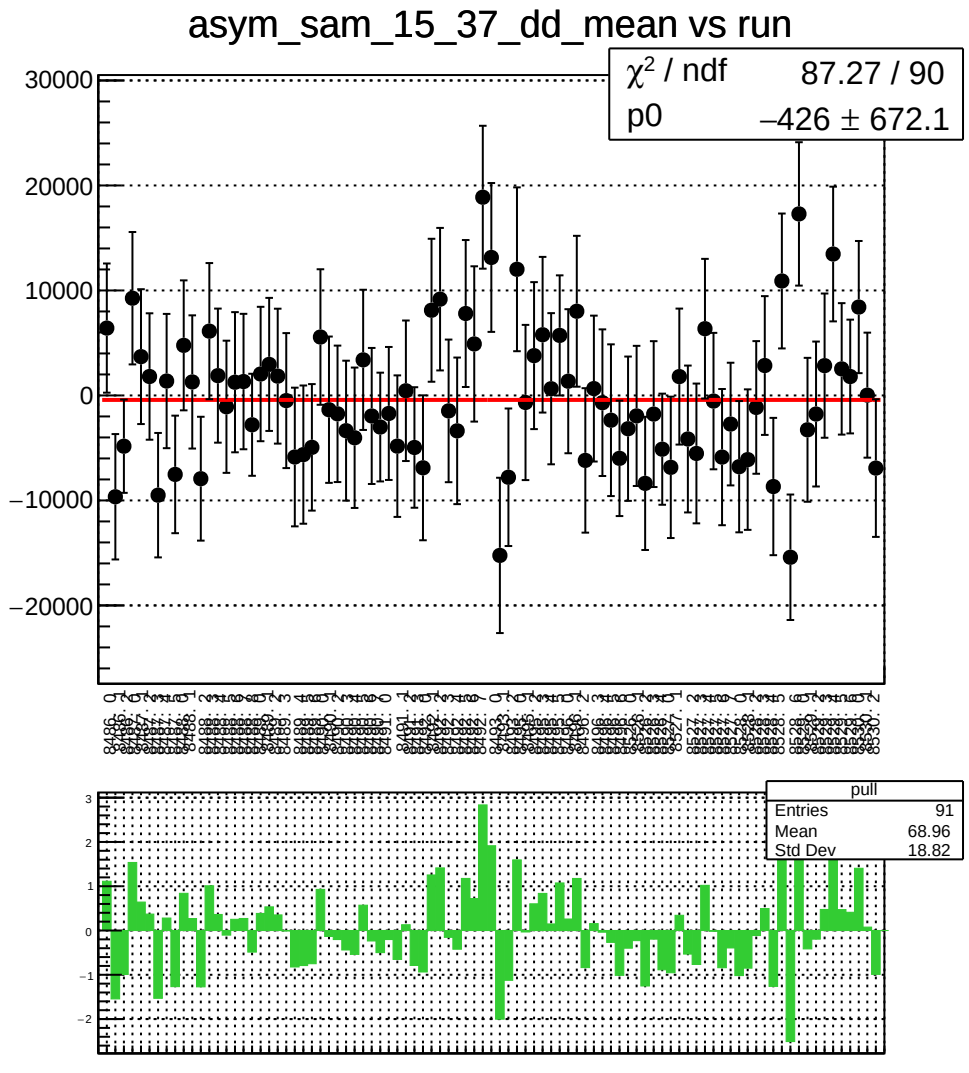

pull1D
Entries 91
Mean −0.01418
Std Dev 1.073
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

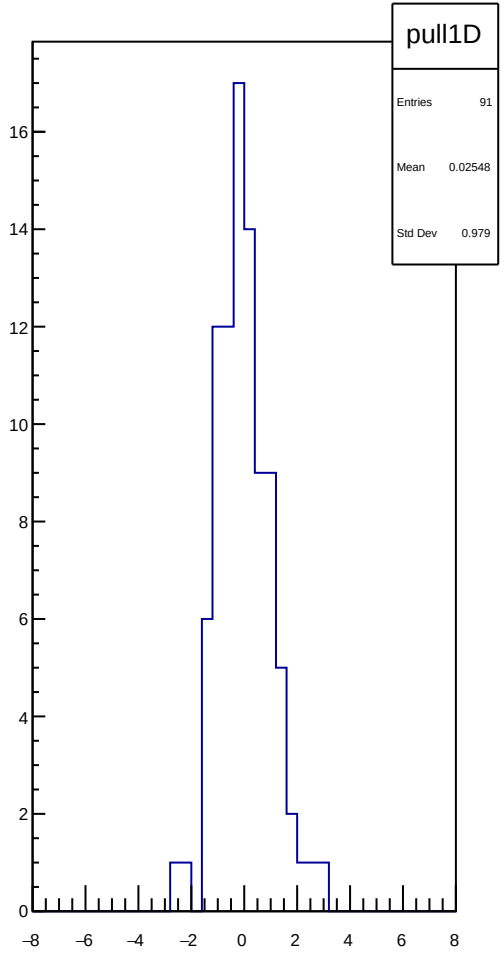

eigen_dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.034e+04 / 90
p0 62.83 ± 0.04765
100
90
80
70
60
50

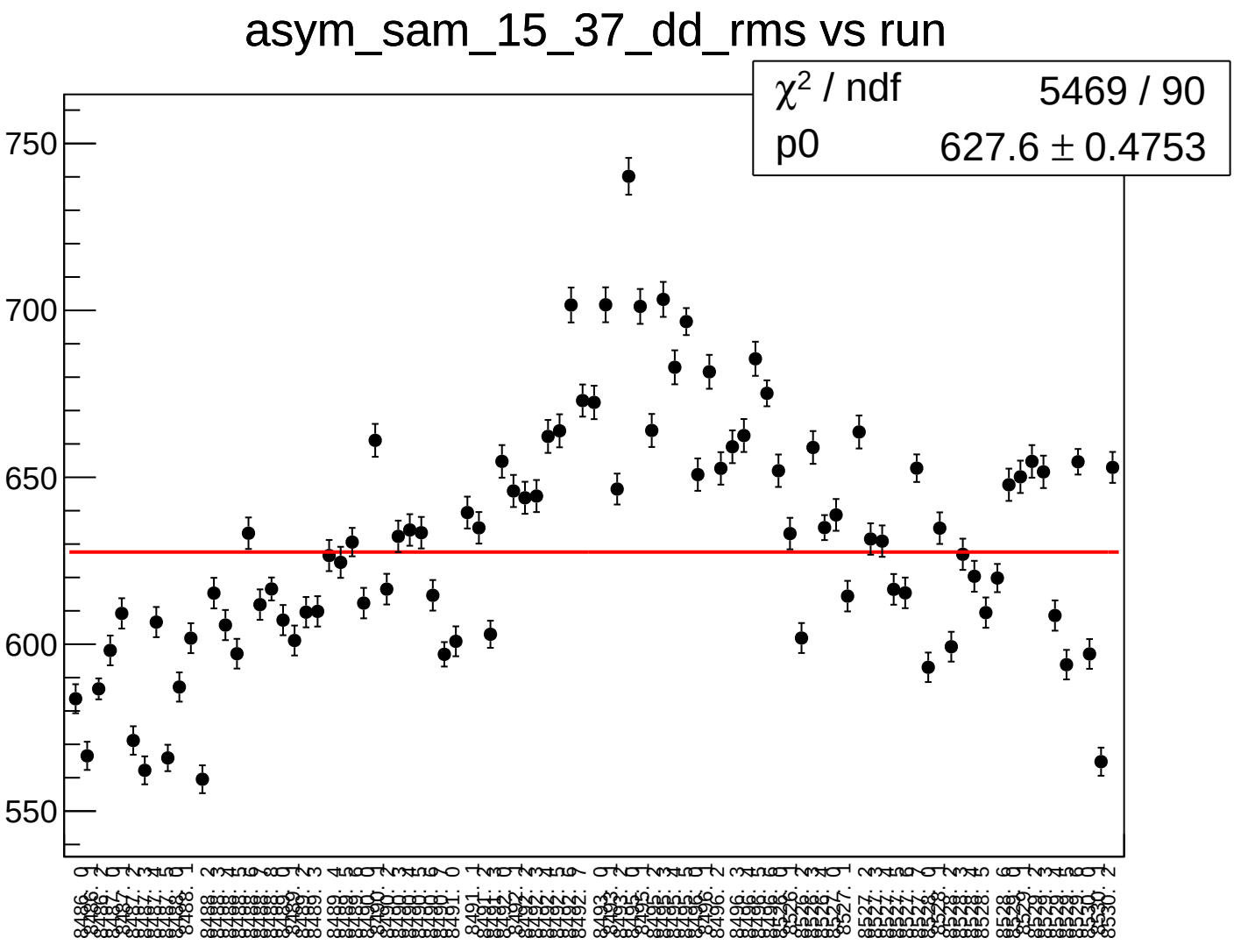

asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 87.77 / 90
p0 224.2 ± 656.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 65.26
Std Dev 17.08
2
1
0
−1
−2
−3

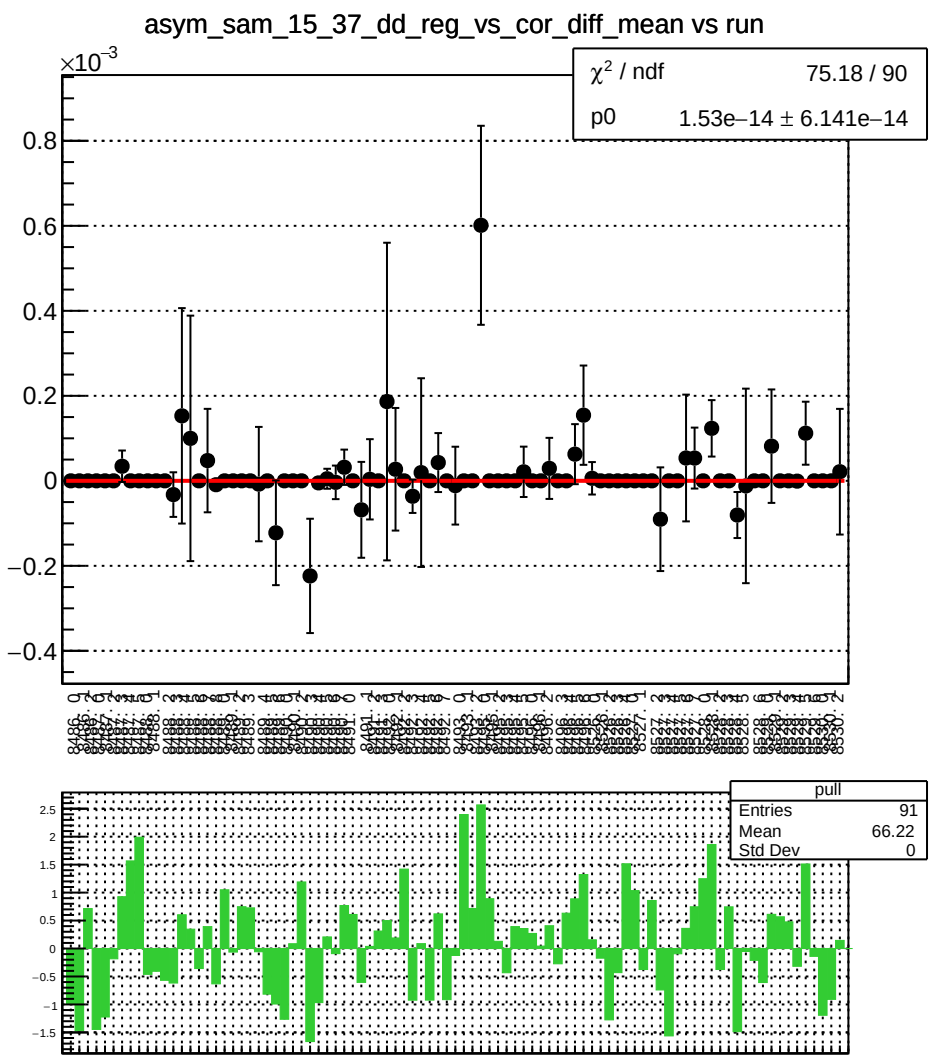

pull1D
Entries 91
Mean −0.02785
Std Dev 0.9817
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

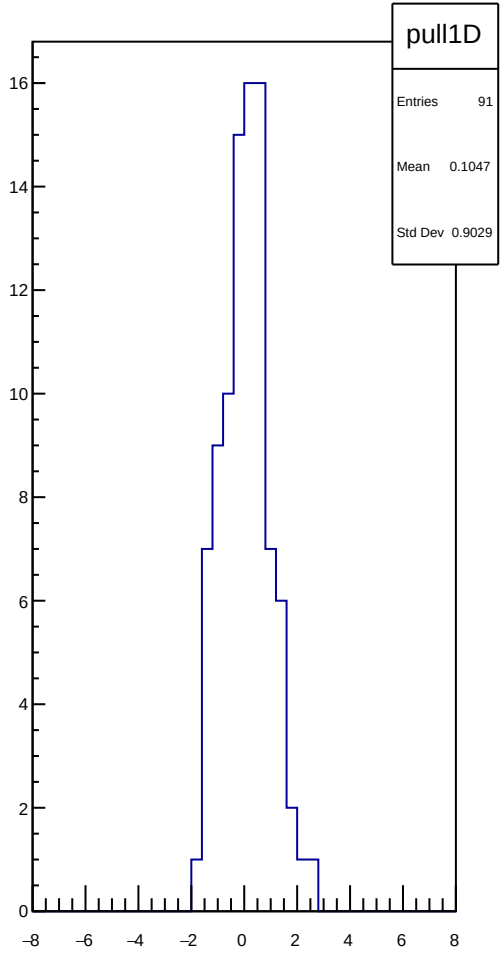

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 6080 / 90
p0 613.1 ± 0.4644
740
720
700
680
660
640
620
600
580
560
540

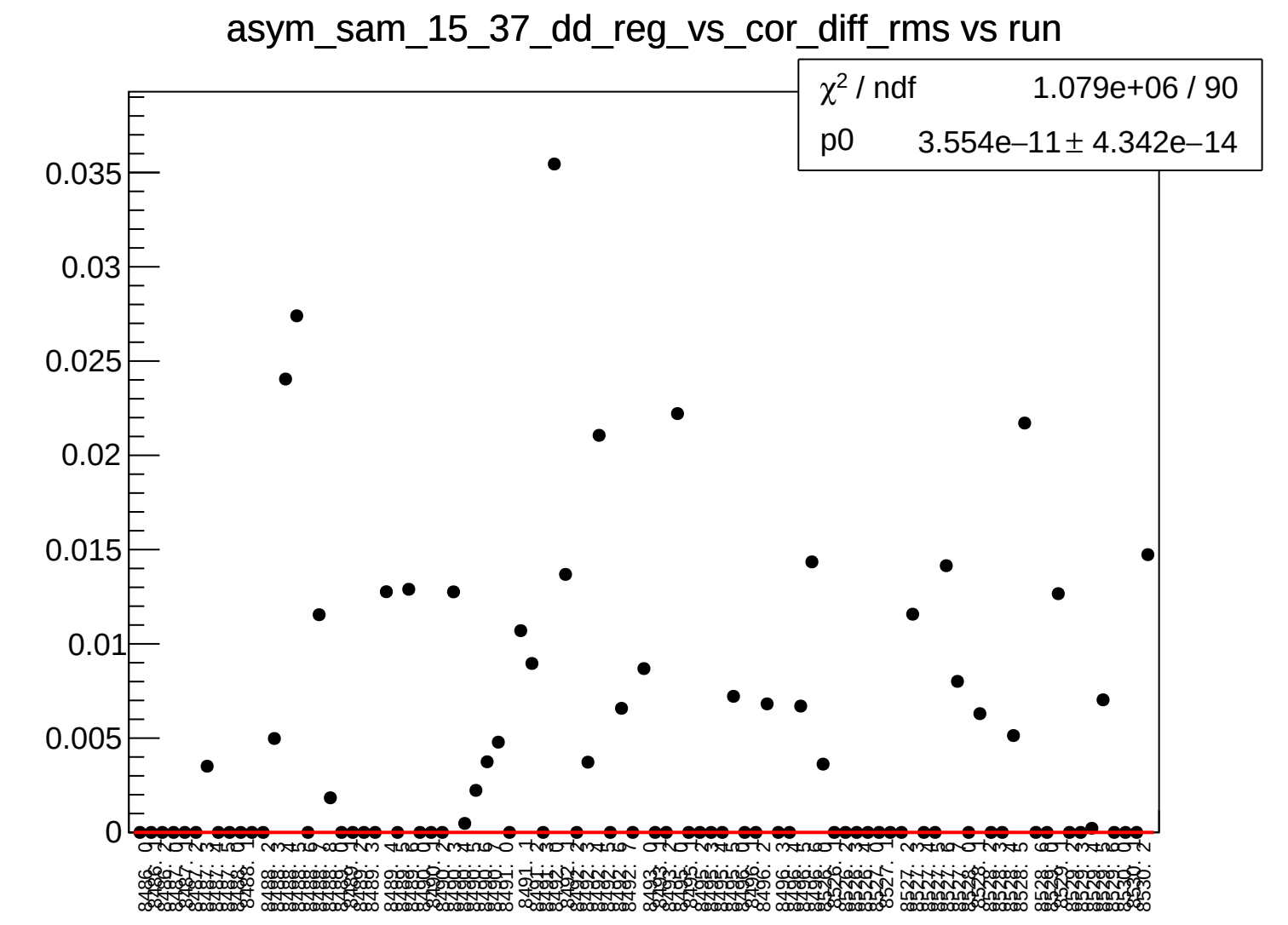

asym_sam_15_37_dd_mean vs run
χ² / ndf 87.27 / 90
p0 −426 ± 672.1
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 68.96
Std Dev 18.82
3
2
1
0
−1
−2

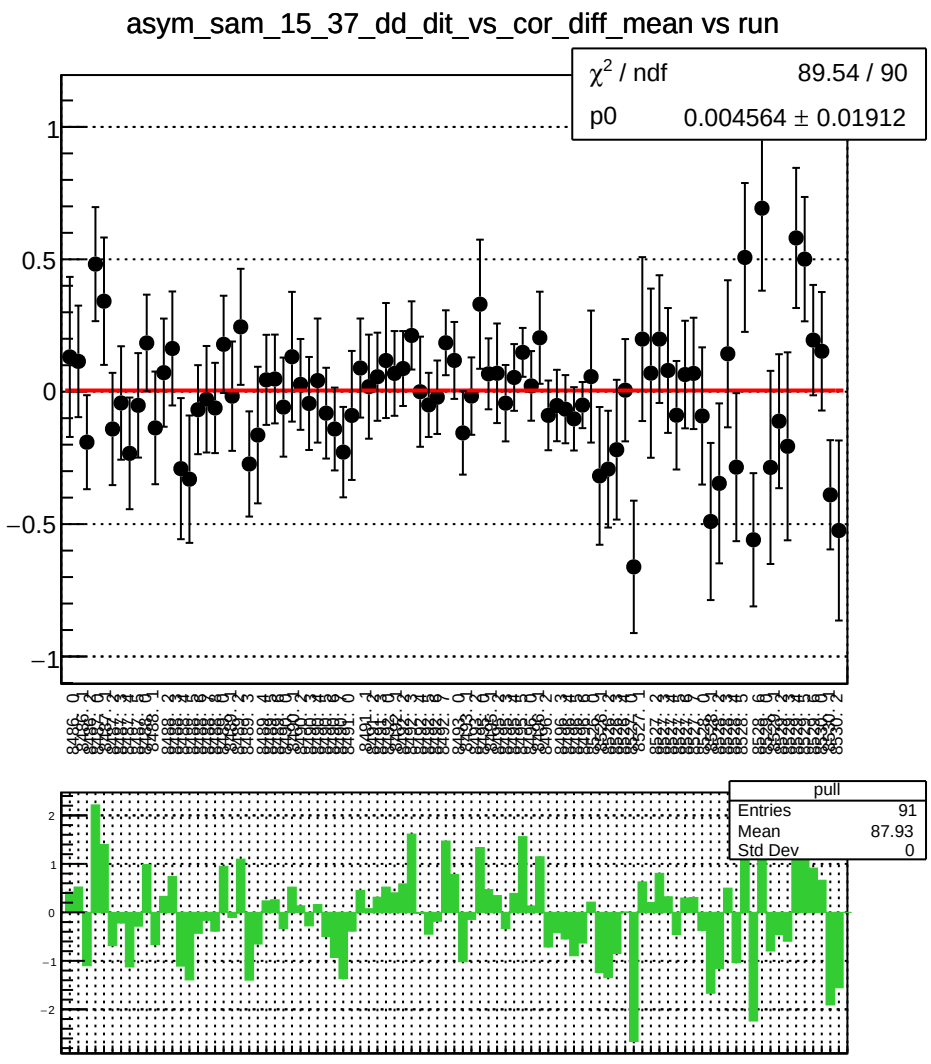

pull1D
Entries 91
Mean 0.02548
Std Dev 0.979
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

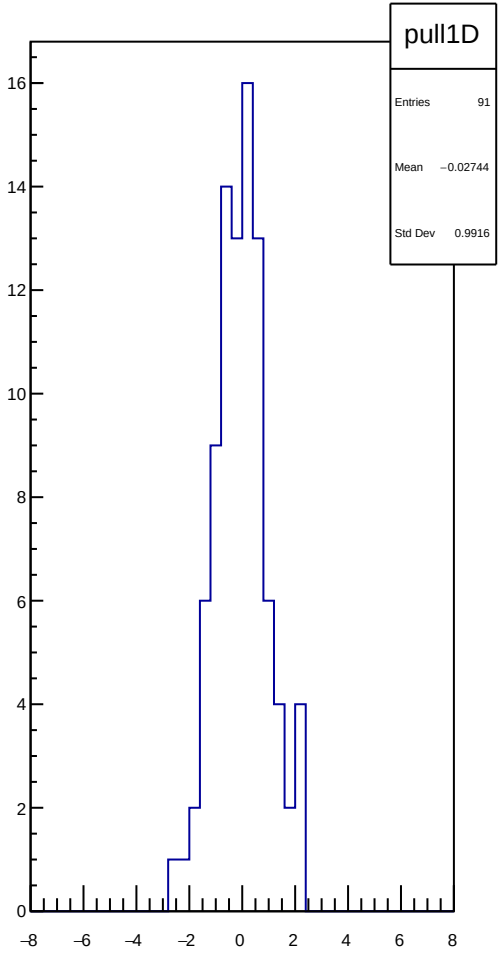

asym_sam_15_37_dd_rms vs run
χ² / ndf 5469 / 90
p0 627.6 ± 0.4753
750
700
650
600
550

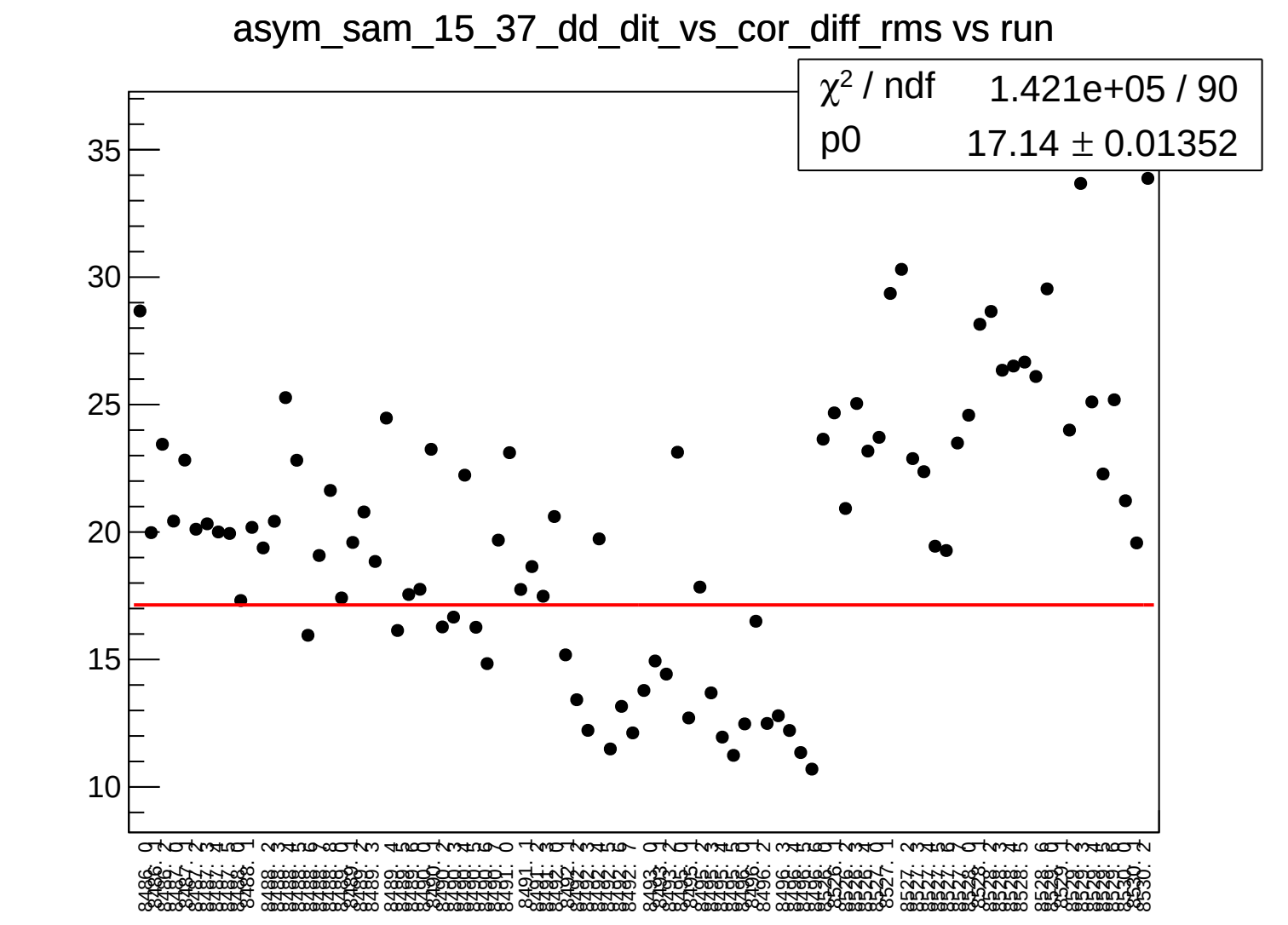

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
×10^-3
χ² / ndf 75.18 / 90
p0 1.53e−14 ± 6.141e−14
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 91
Mean 66.22
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

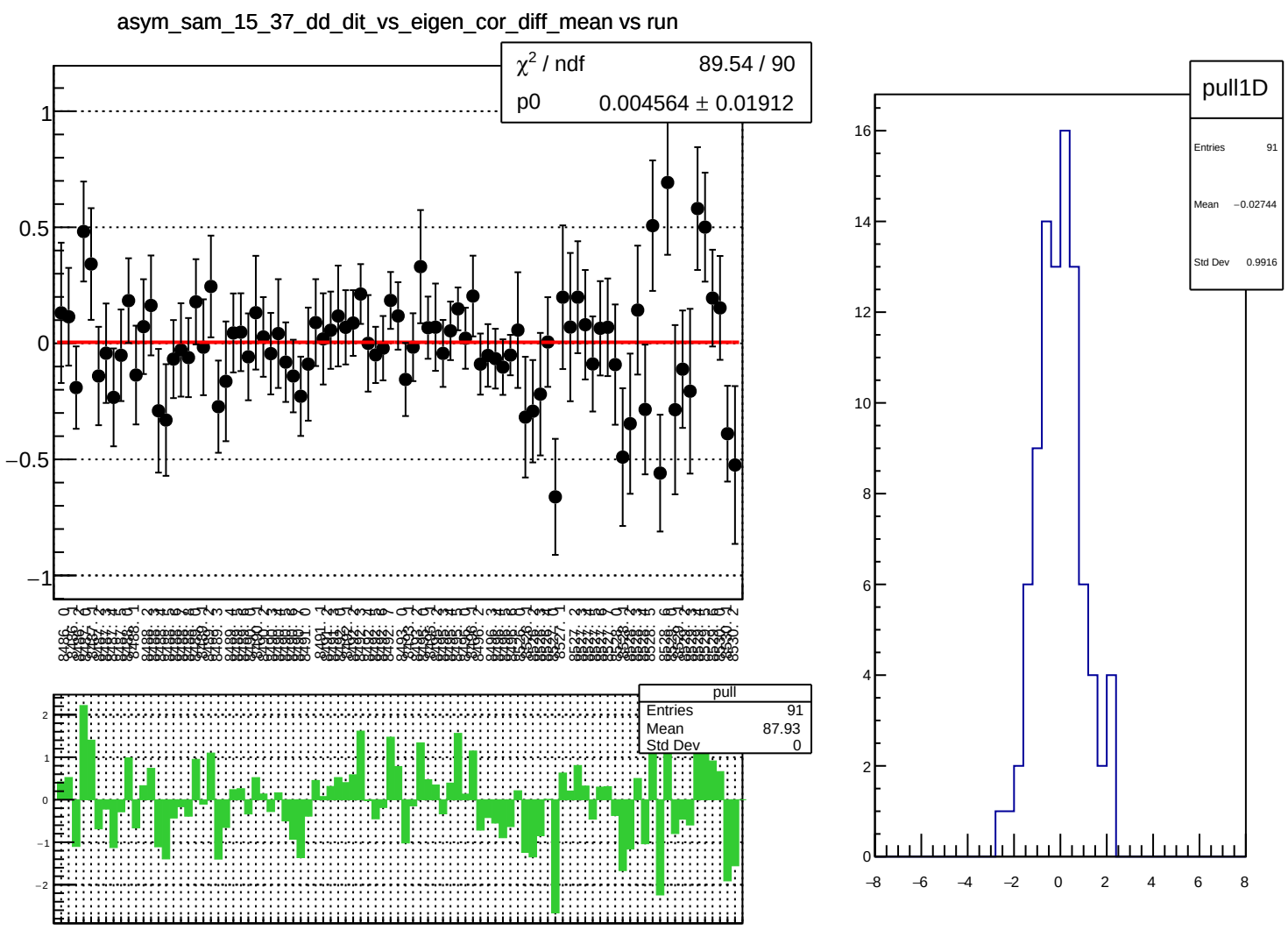

pull1D
Entries 91
Mean 0.1047
Std Dev 0.9029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

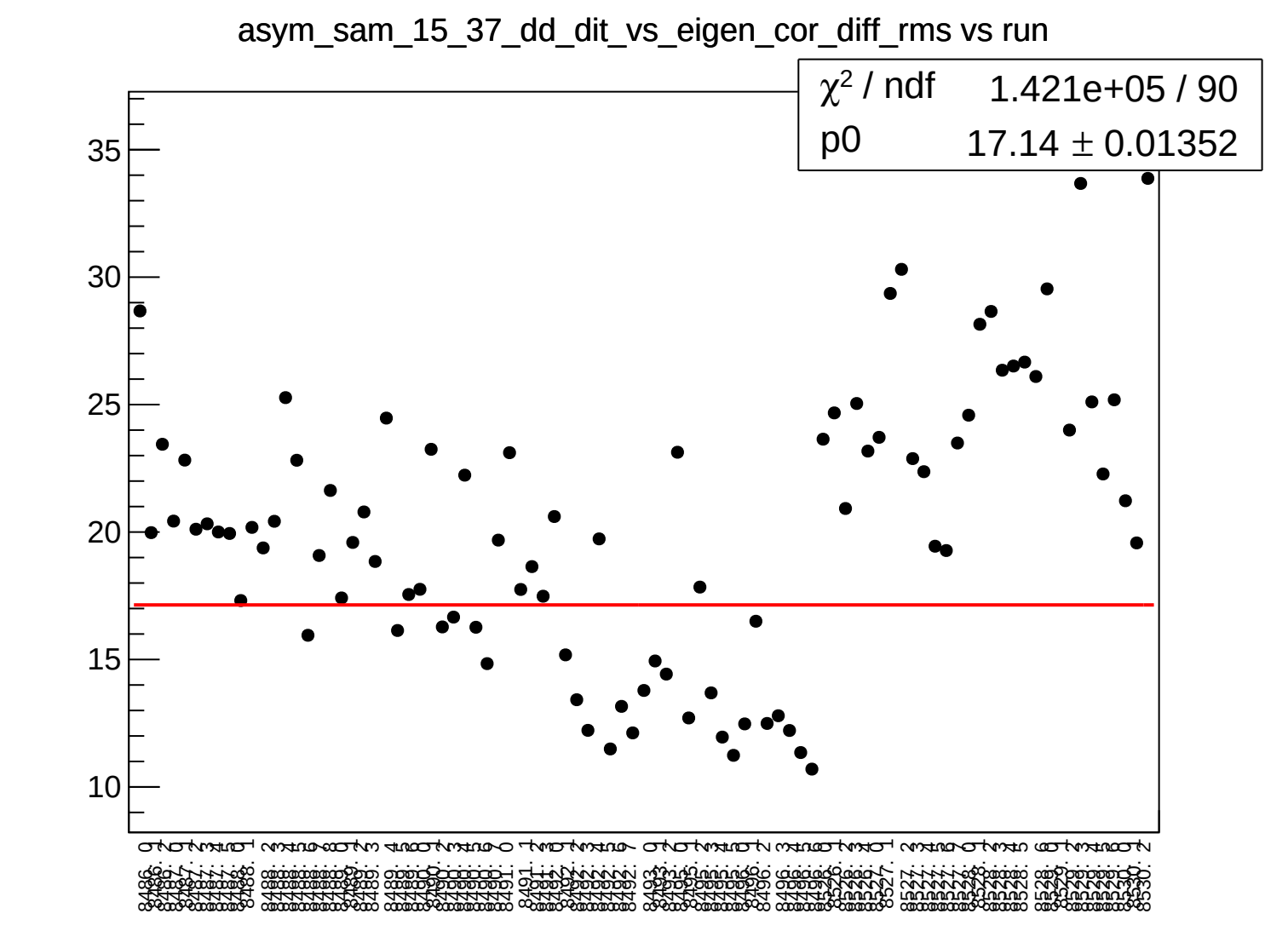

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.079e+06 / 90
p0 3.554e−11 ± 4.342e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

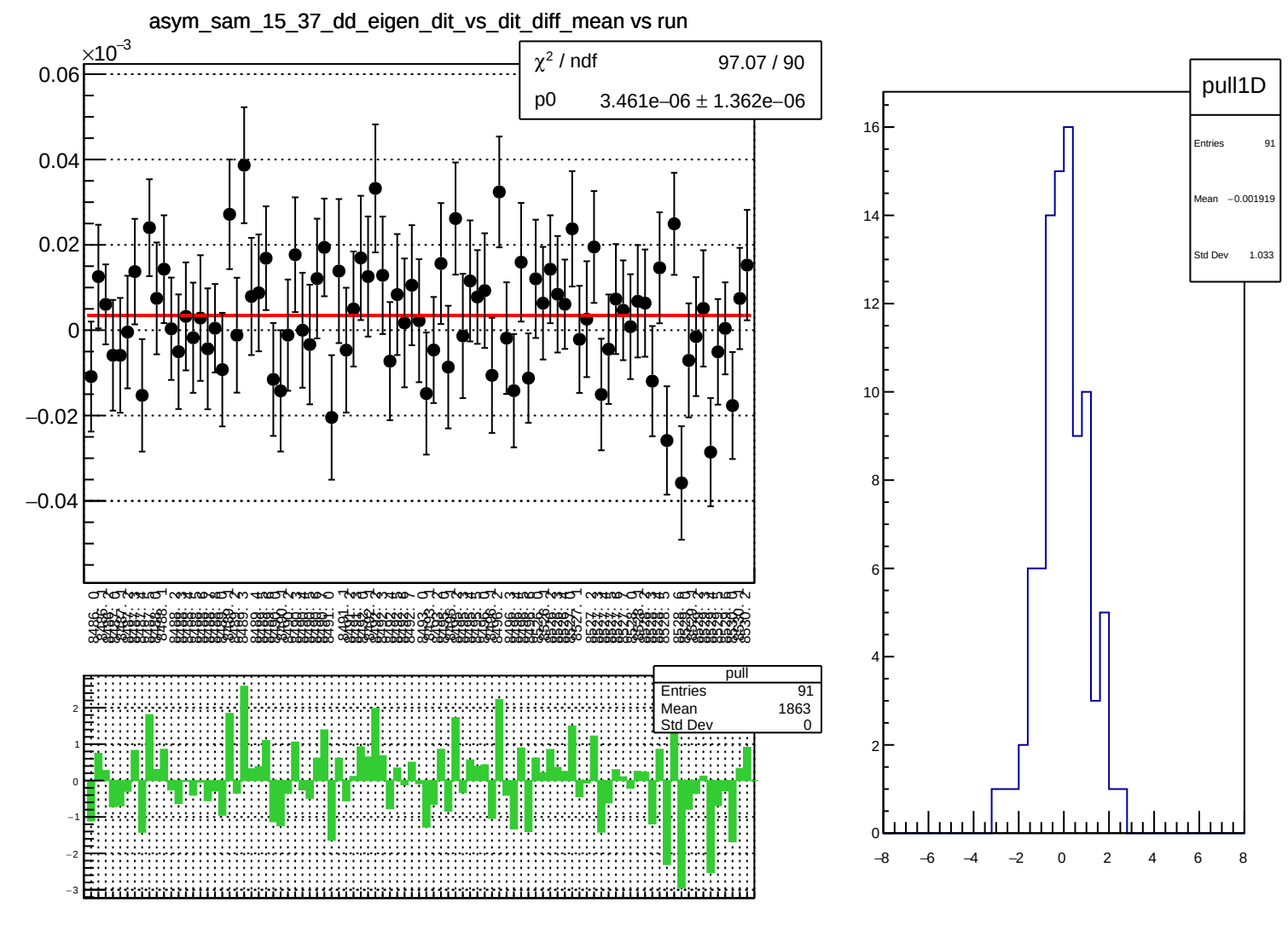

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 89.54 / 90
p0 0.004564 ± 0.01912
pull
Entries 91
Mean 87.93
Std Dev 0

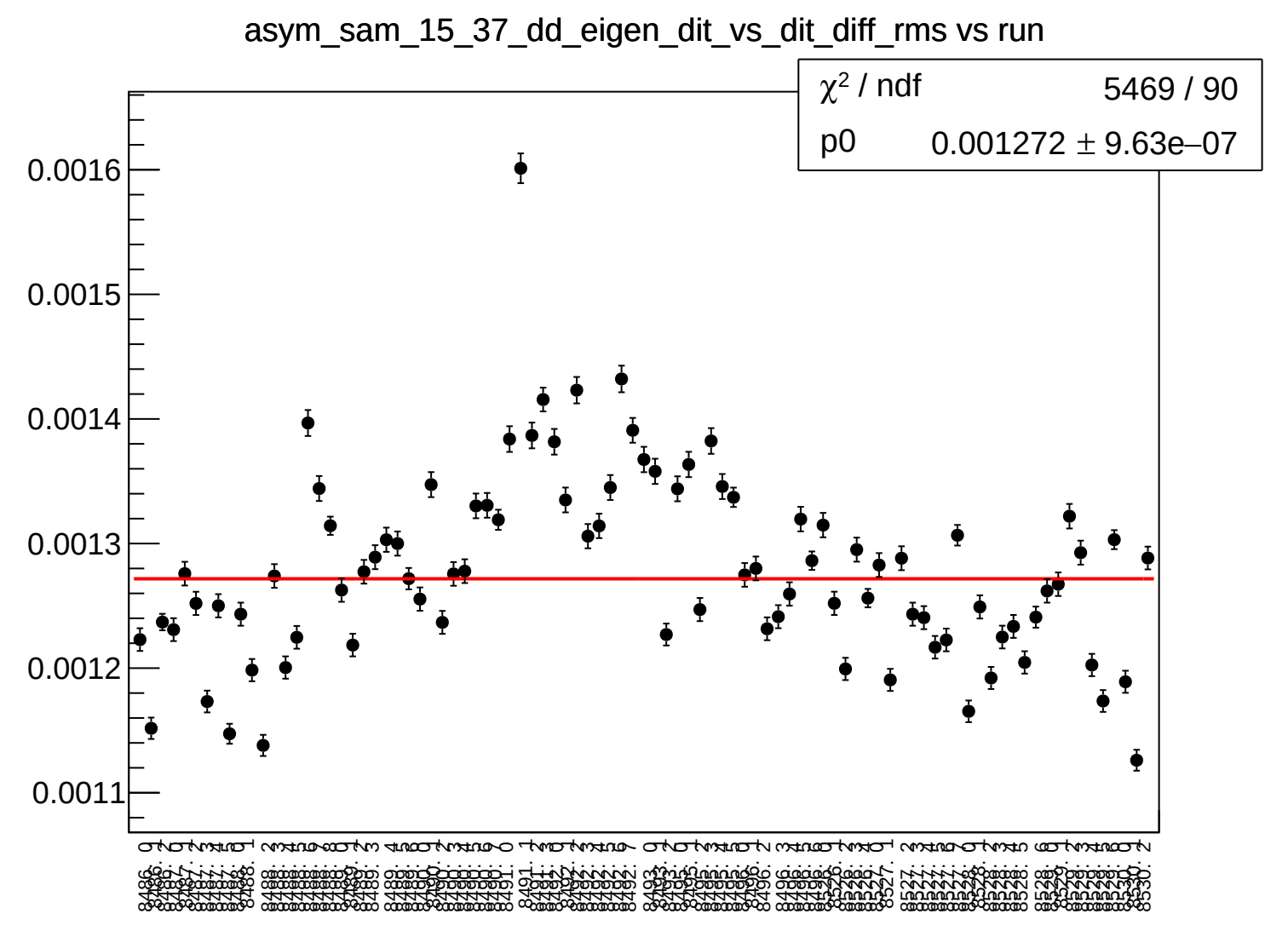

pull1D
Entries 91
Mean −0.02744
Std Dev 0.9916

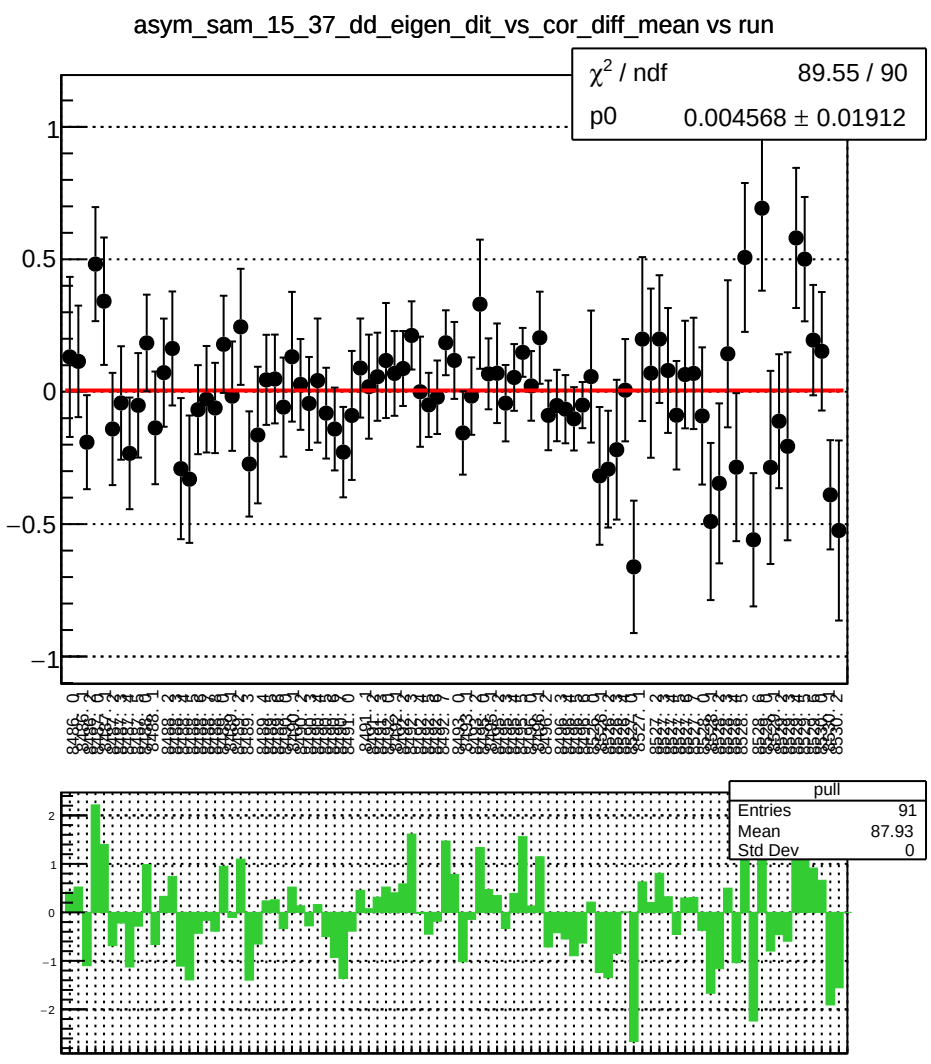

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.421e+05 / 90
p0 17.14 ± 0.01352
35
30
25
20
15
10

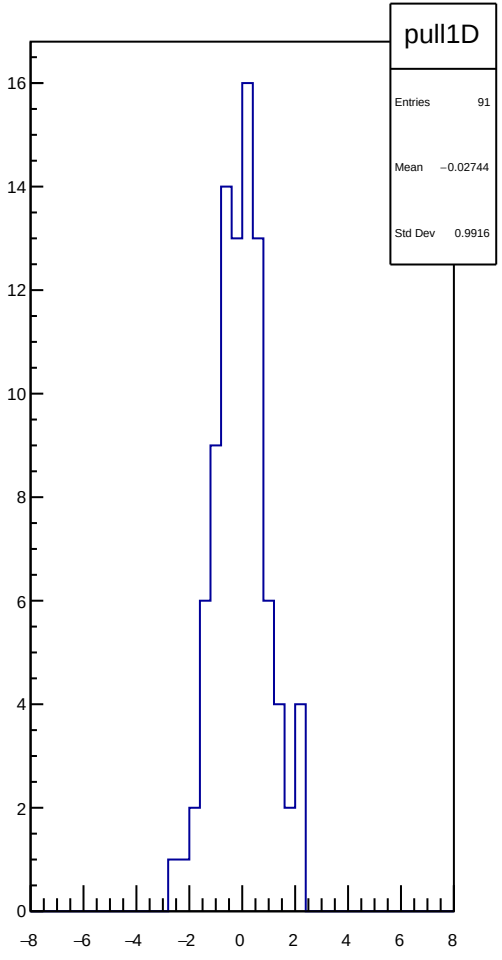

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.54 / 90
p0 0.004564 ± 0.01912
pull
Entries 91
Mean 87.93
Std Dev 0
pull1D
Entries 91
Mean −0.02744
Std Dev 0.9916

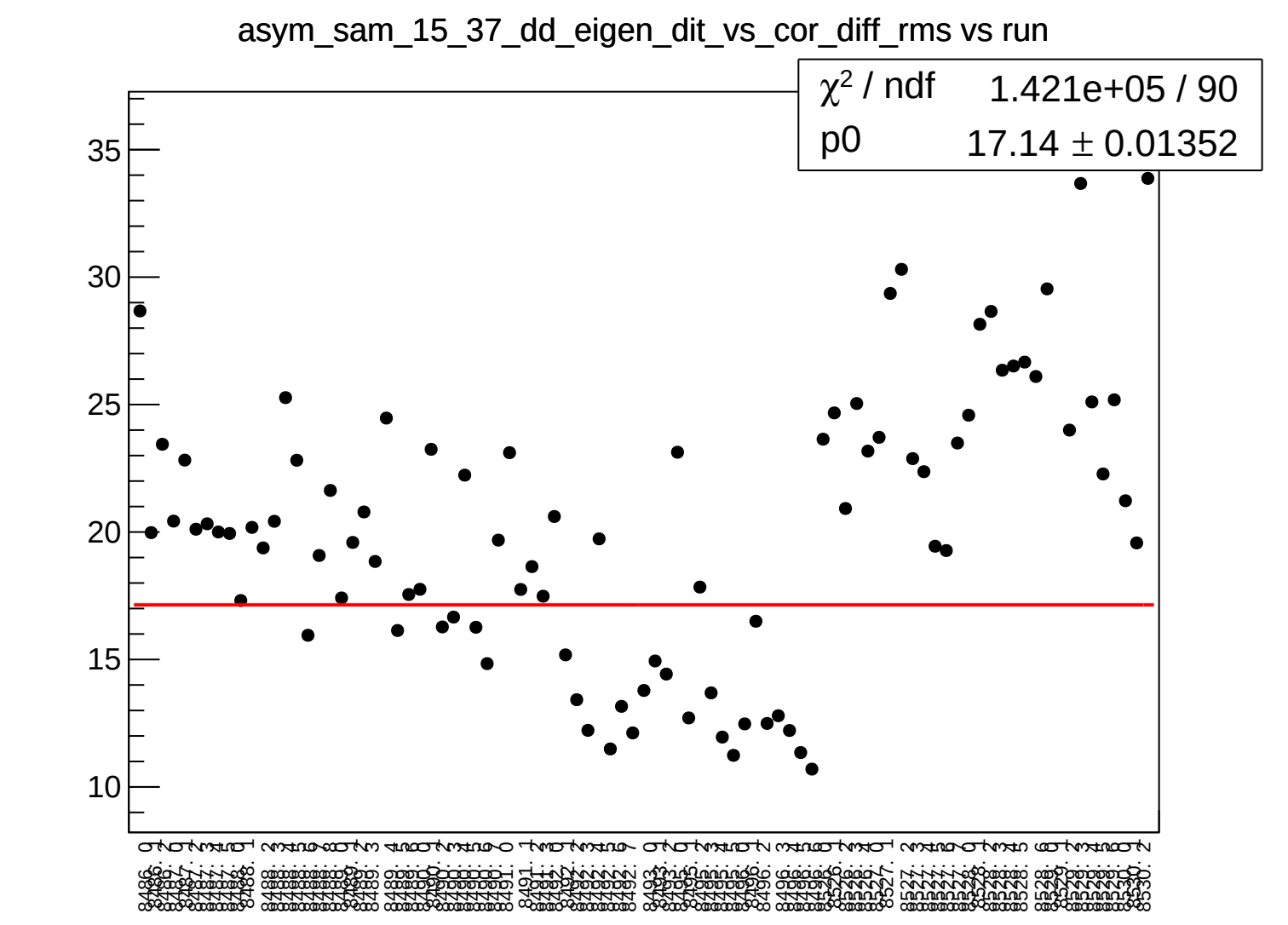

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.421e+05 / 90
p0 17.14 ± 0.01352
35
30
25
20
15
10

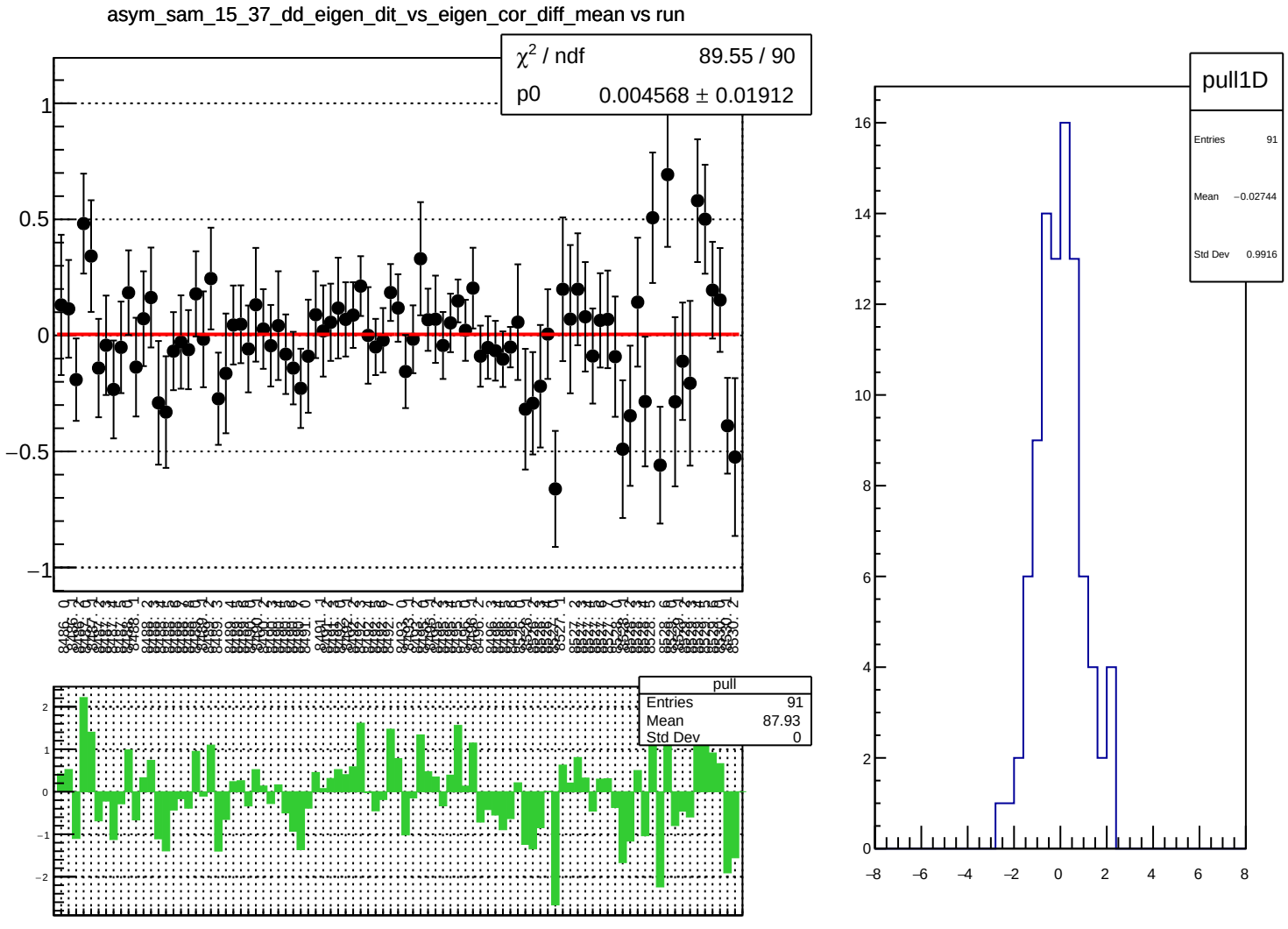

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.07 / 90
p0 3.461e−06 ± 1.362e−06
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 91
Mean 1863
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean −0.001919
Std Dev 1.033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

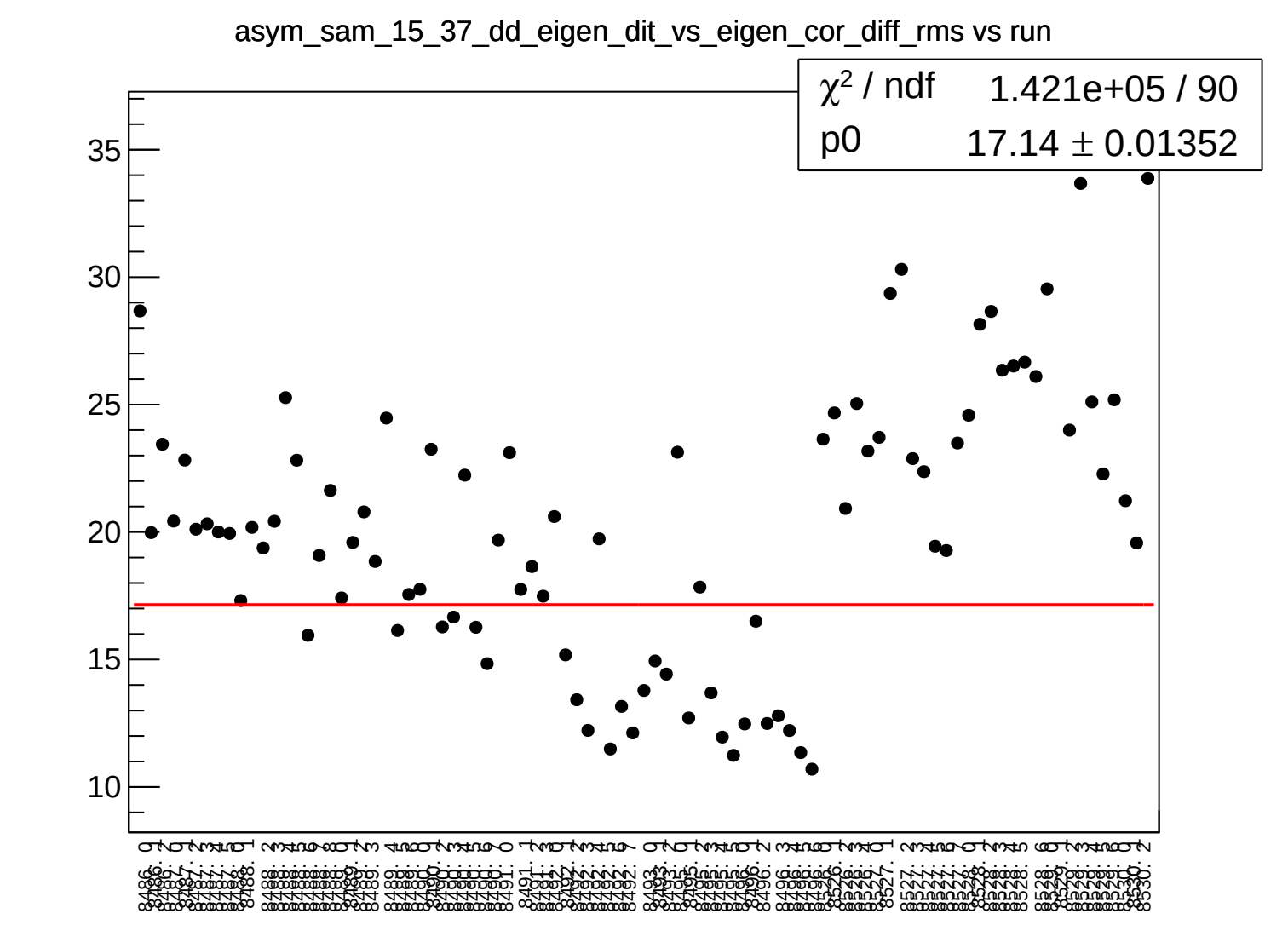

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5469 / 90
p0 0.001272 ± 9.63e–07
0.0016
0.0015
0.0014
0.0013
0.0012
0.0011

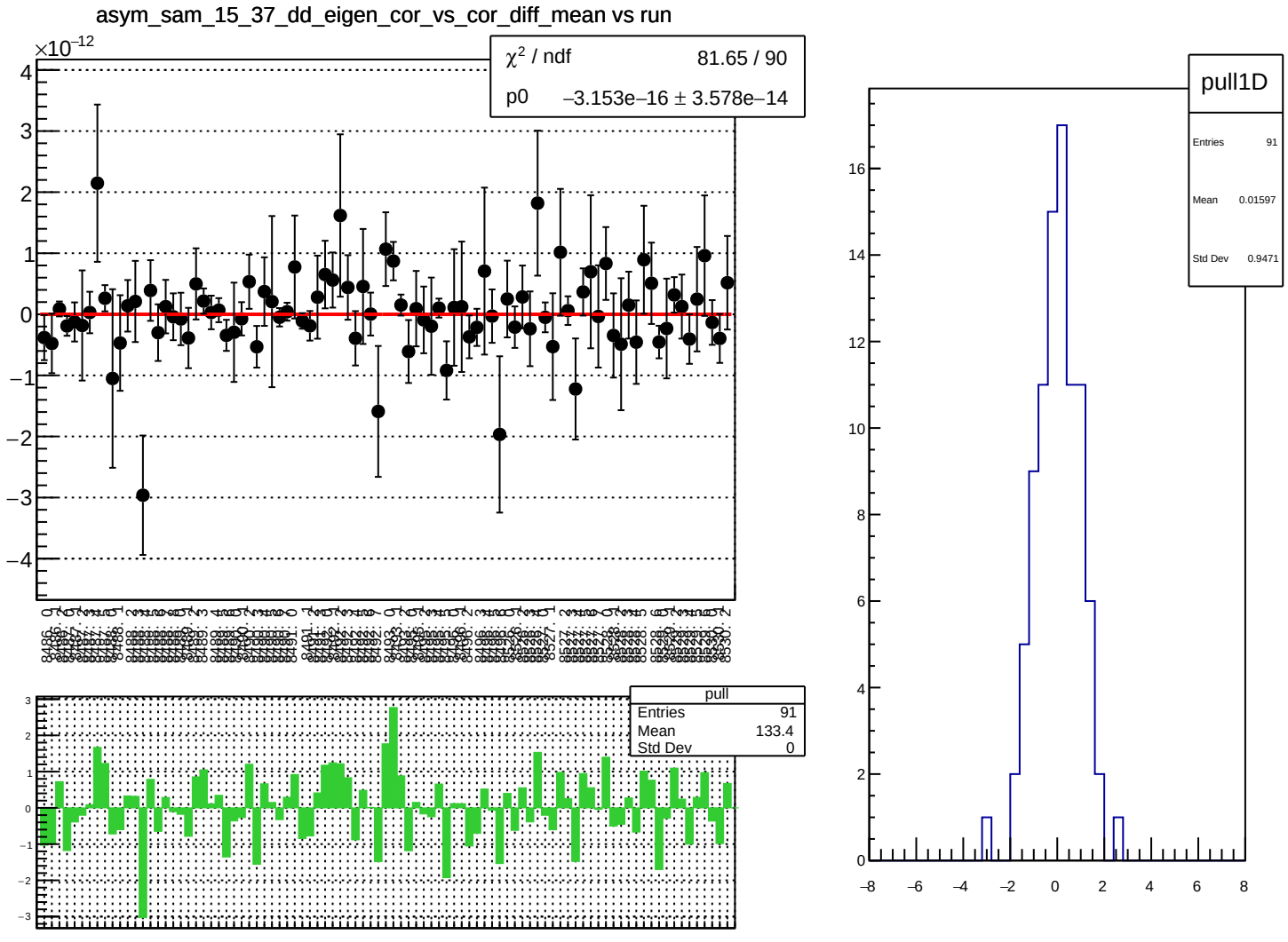

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.55 / 90
p0 0.004568 ± 0.01912
pull
Entries 91
Mean 87.93
Std Dev 0

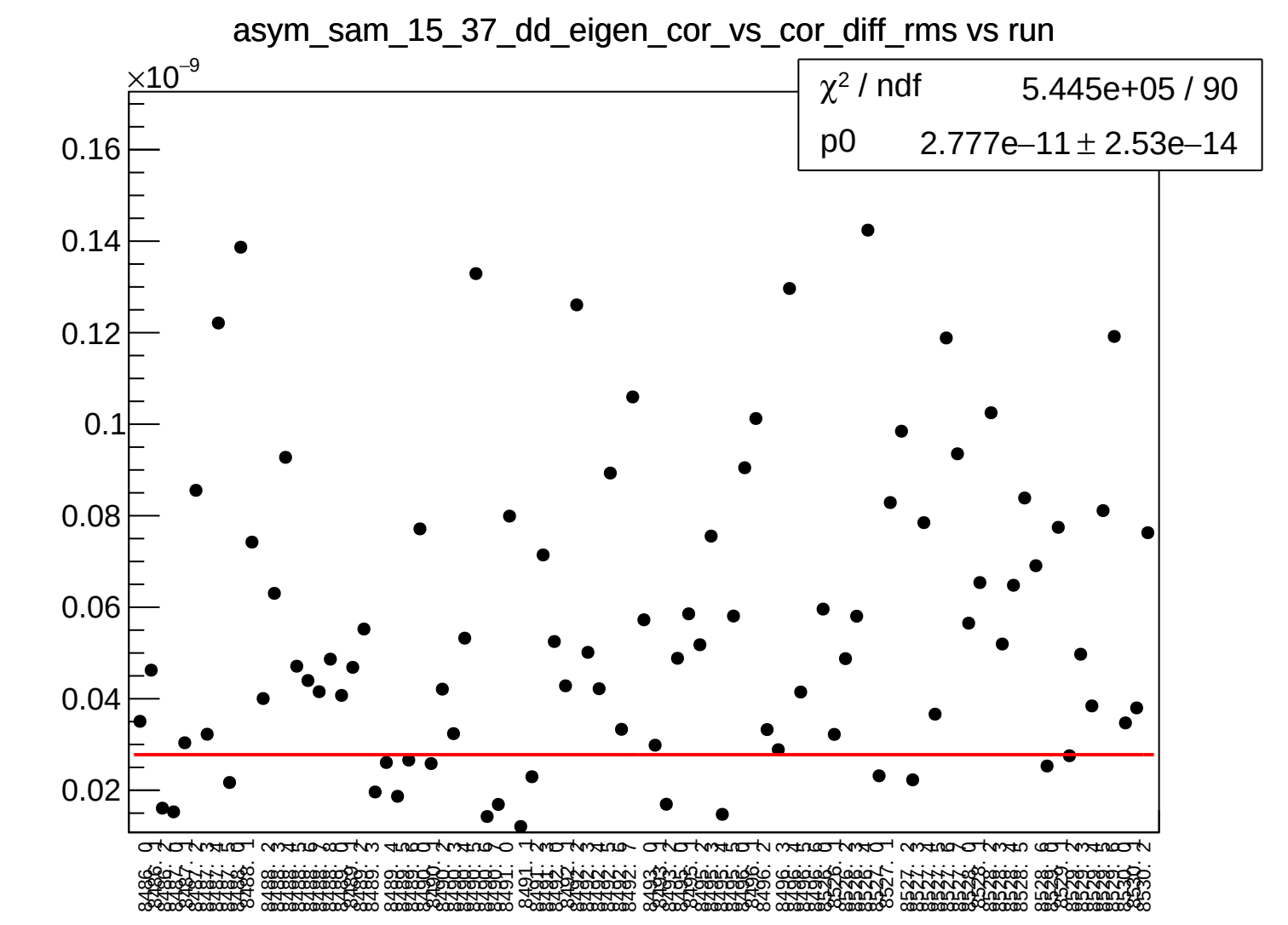

pull1D
Entries 91
Mean −0.02744
Std Dev 0.9916

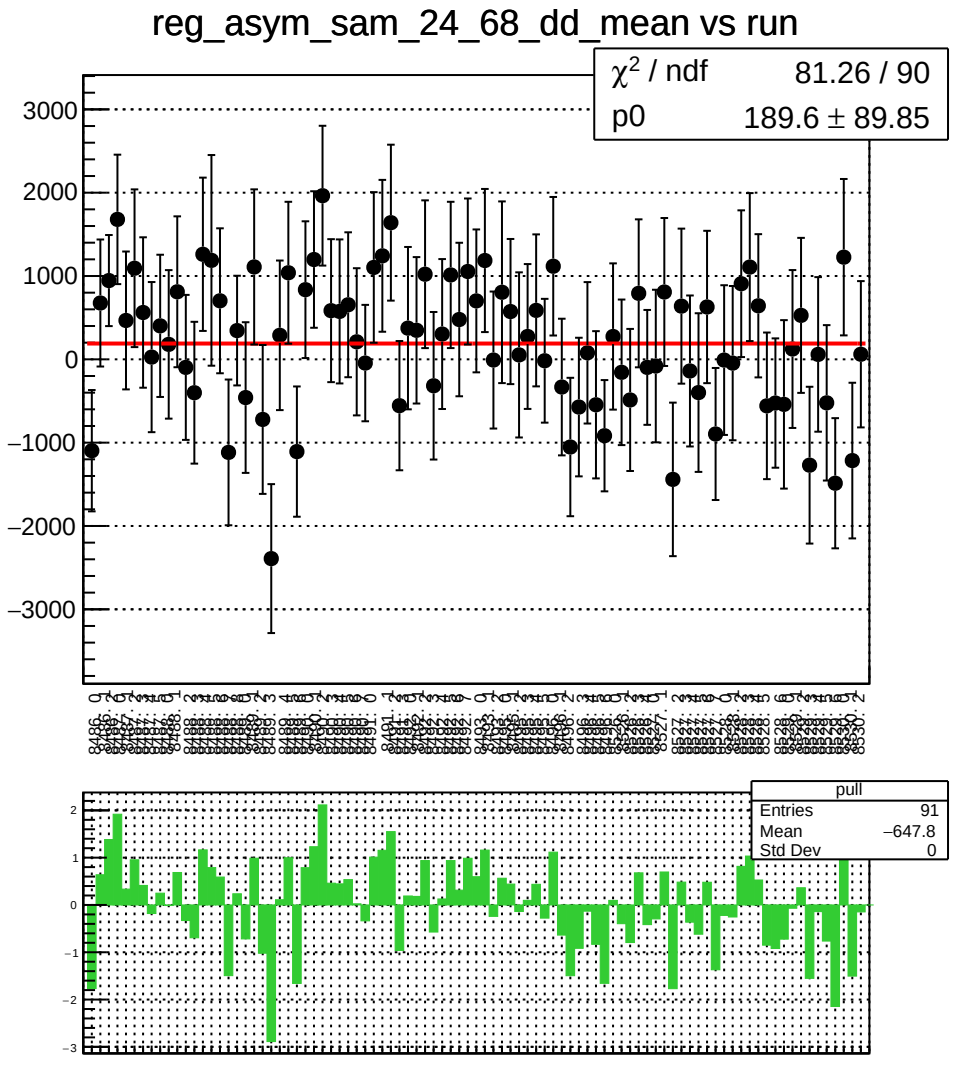

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.421e+05 / 90
p0 17.14 ± 0.01352
35
30
25
20
15
10

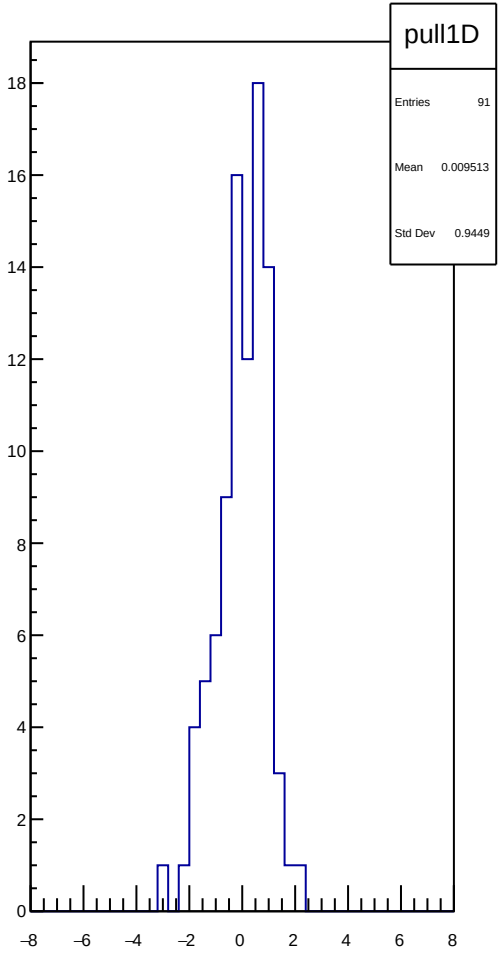

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.55 / 90
p0 0.004568 ± 0.01912
pull
Entries 91
Mean 87.93
Std Dev 0
pull1D
Entries 91
Mean −0.02744
Std Dev 0.9916

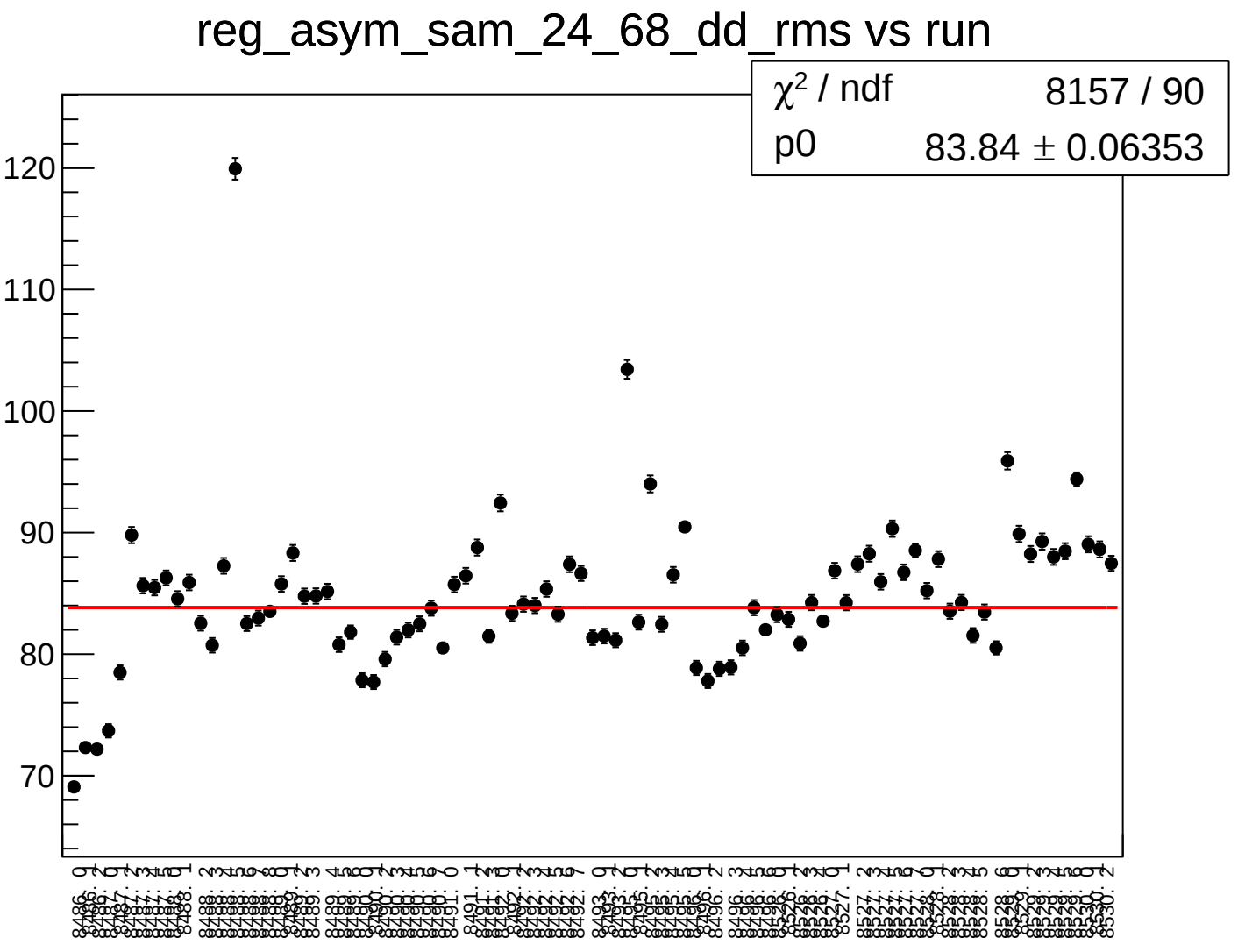

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.421e+05 / 90
p0 17.14 ± 0.01352
35
30
25
20
15
10

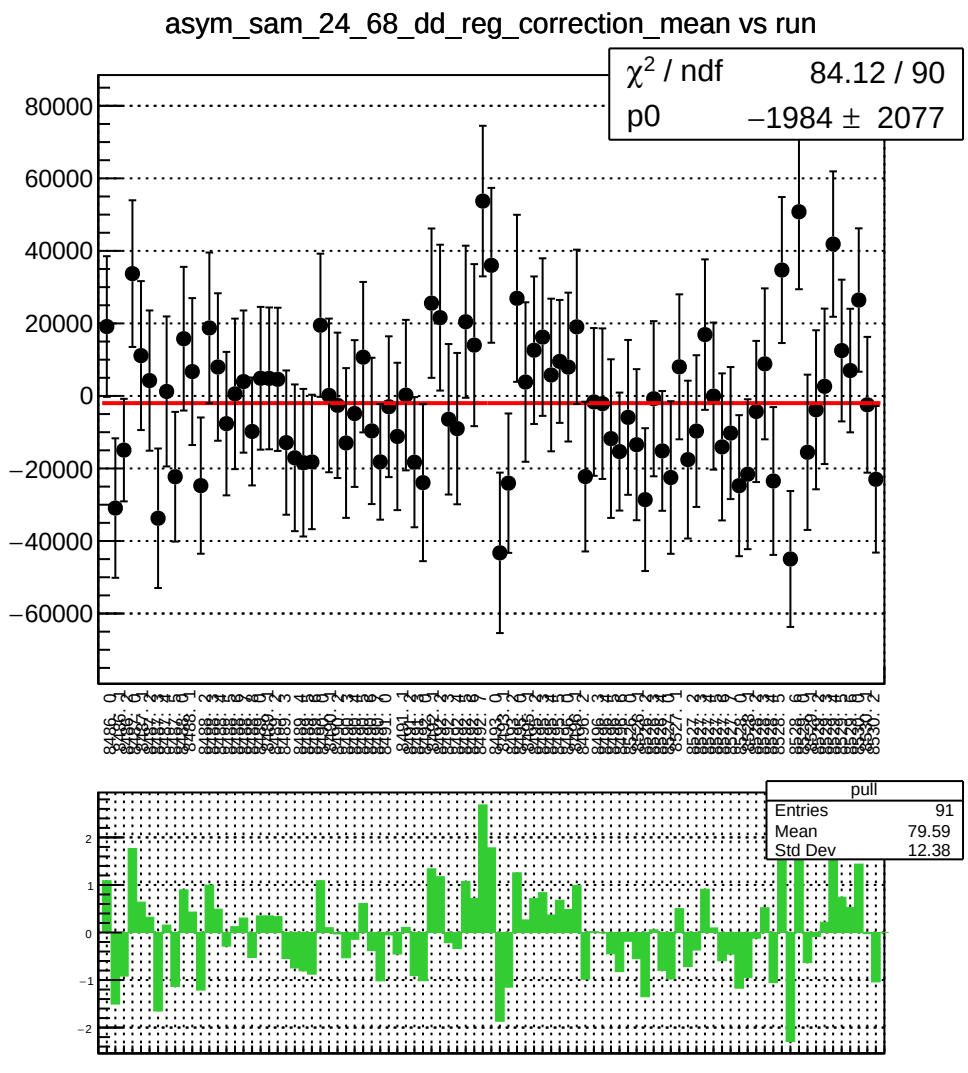

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.65 / 90
p0 −3.153e−16 ± 3.578e−14
pull
Entries 91
Mean 133.4
Std Dev 0
pull1D
Entries 91
Mean 0.01597
Std Dev 0.9471

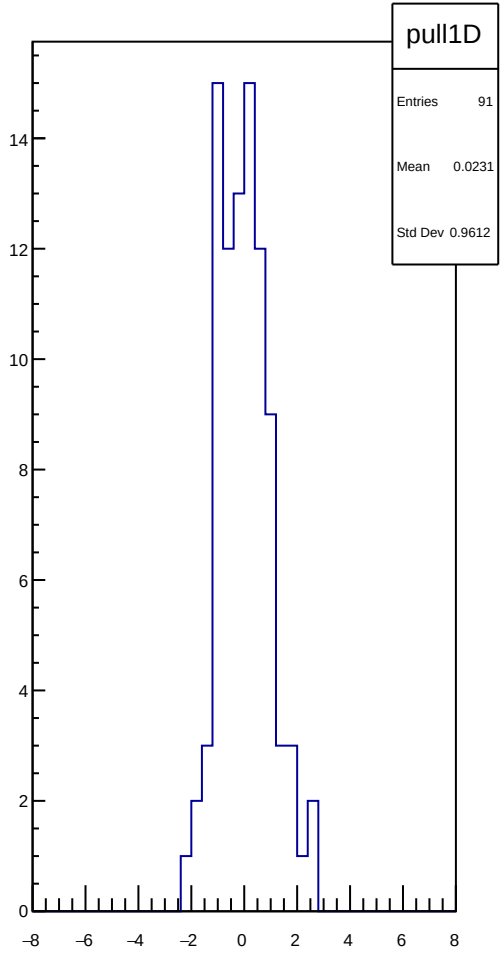

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.445e+05 / 90
p0 2.777e−11 ± 2.53e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

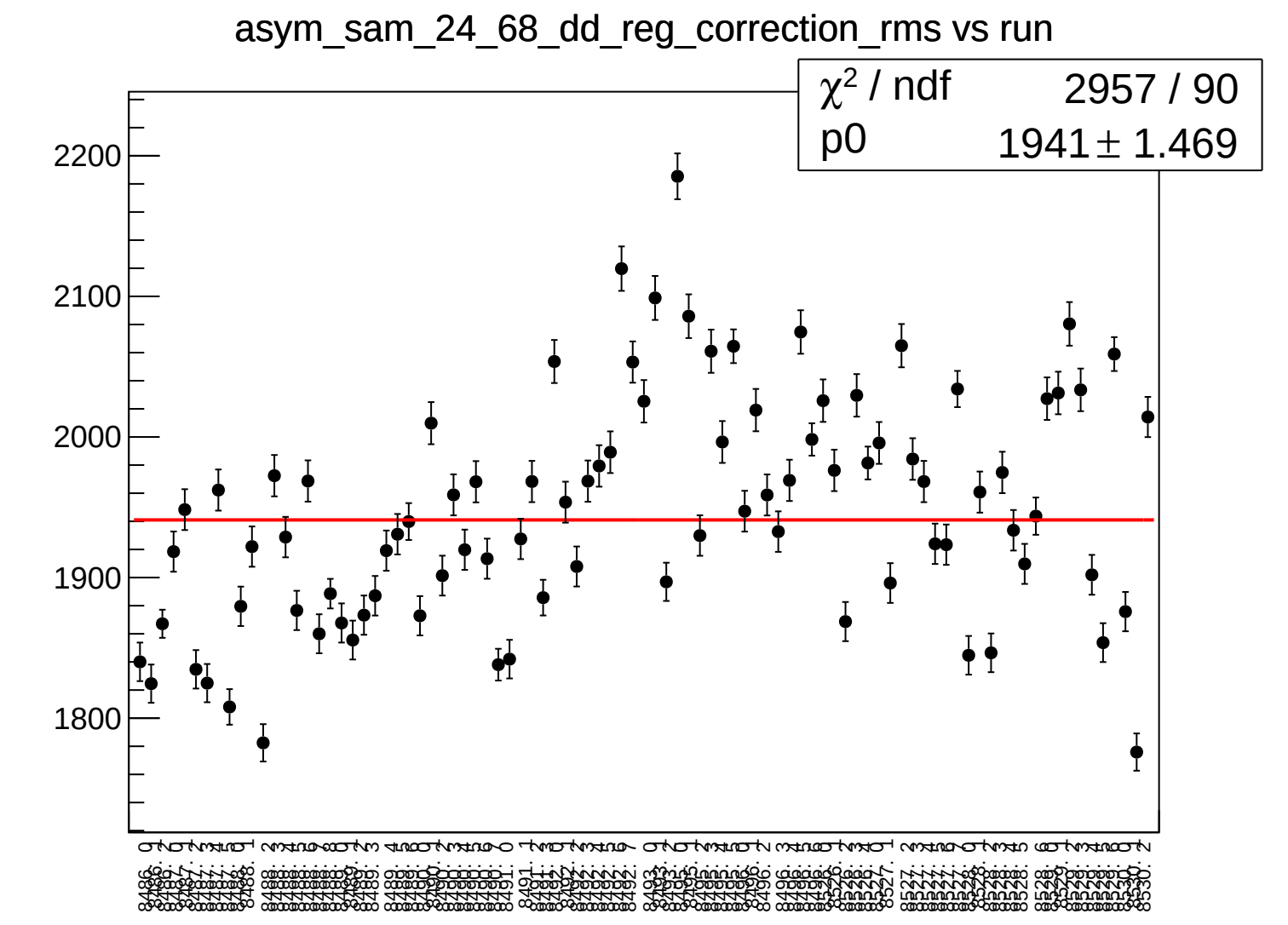

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 81.26 / 90
p0 189.6 ± 89.85
pull
Entries 91
Mean −647.8
Std Dev 0

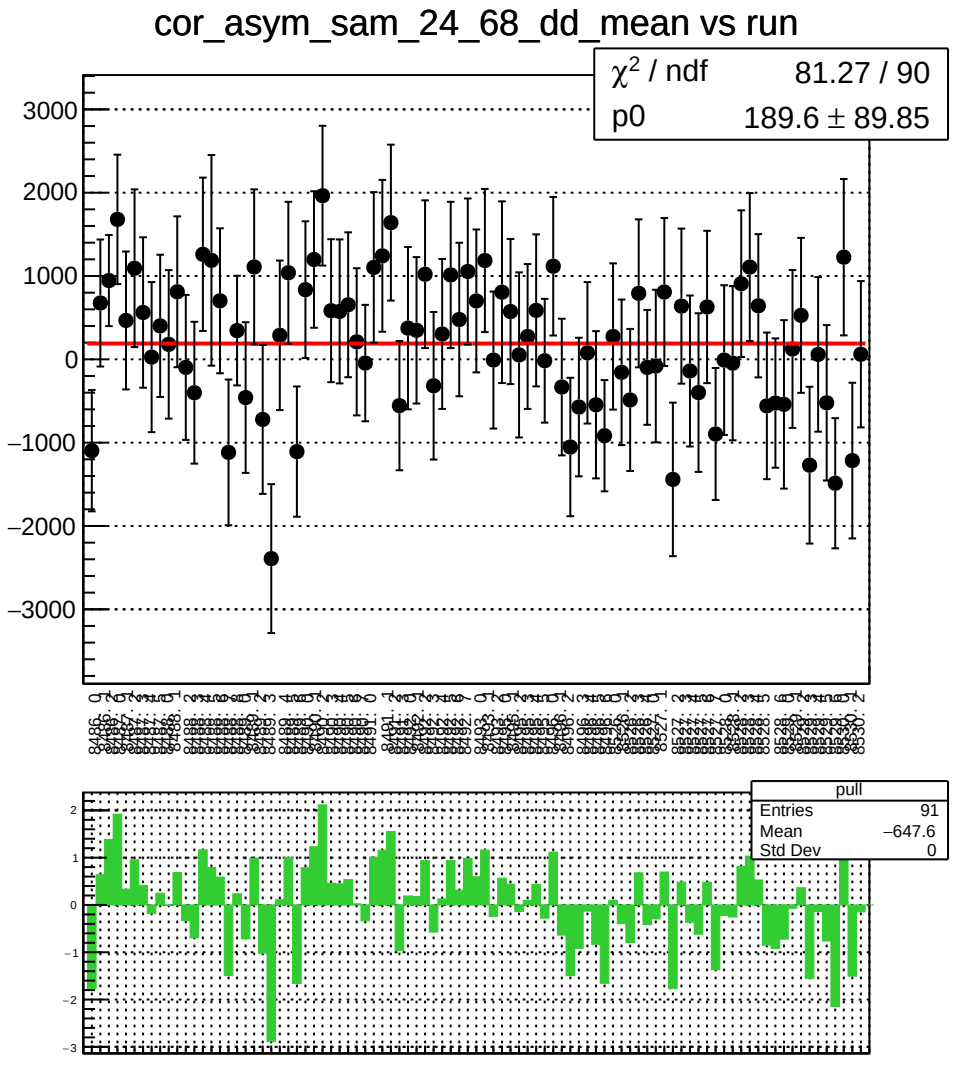

pull1D
Entries 91
Mean 0.009513
Std Dev 0.9449

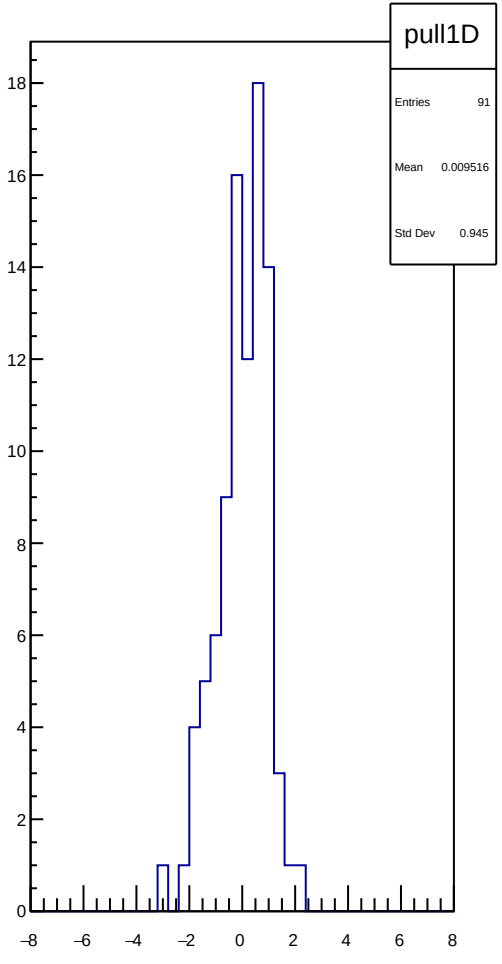

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 8157 / 90
p0 83.84 ± 0.06353
120
110
100
90
80
70

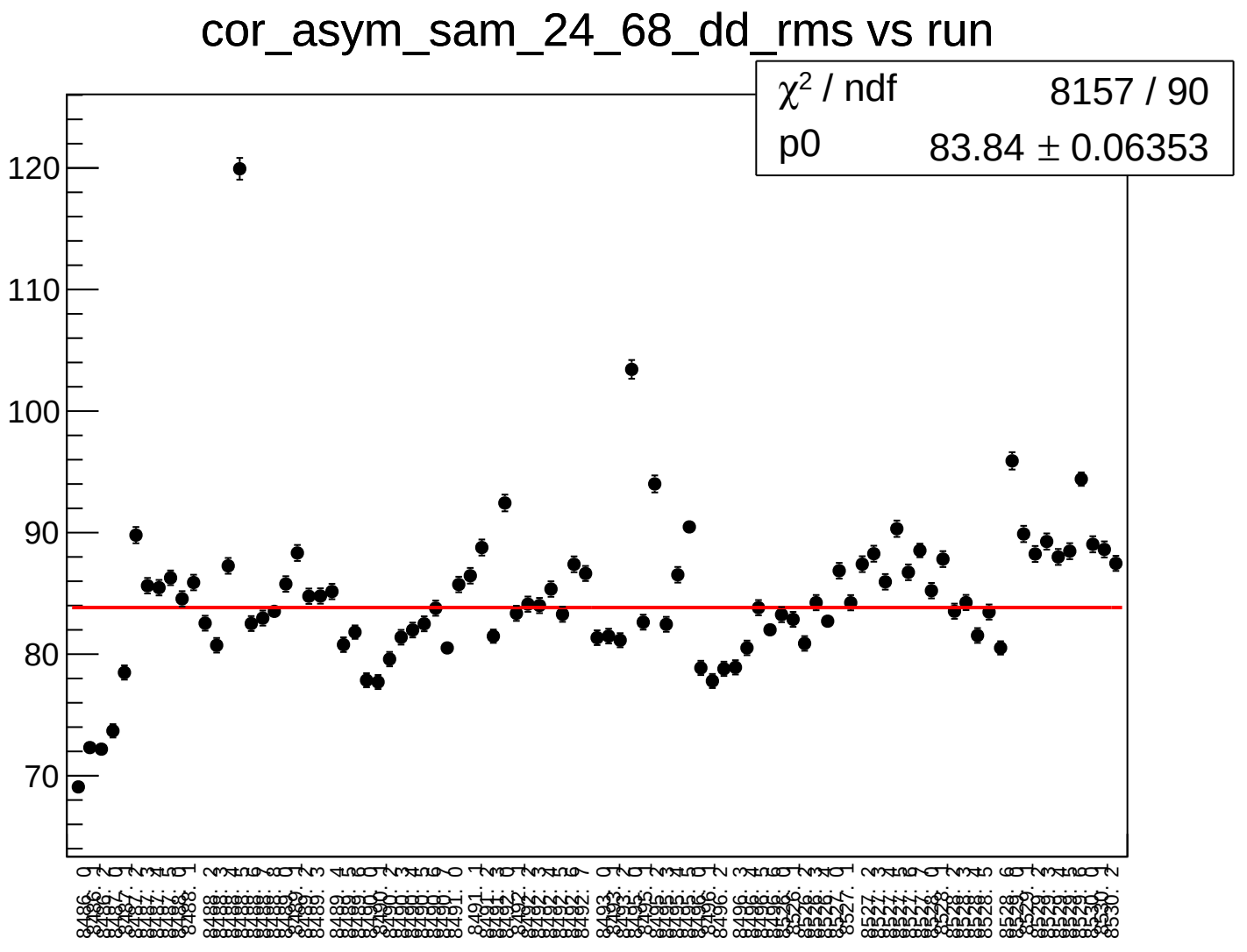

asym_sam_24_68_dd_reg_correction_mean vs run
χ² / ndf 84.12 / 90
p0 −1984 ± 2077
pull
Entries 91
Mean 79.59
Std Dev 12.38

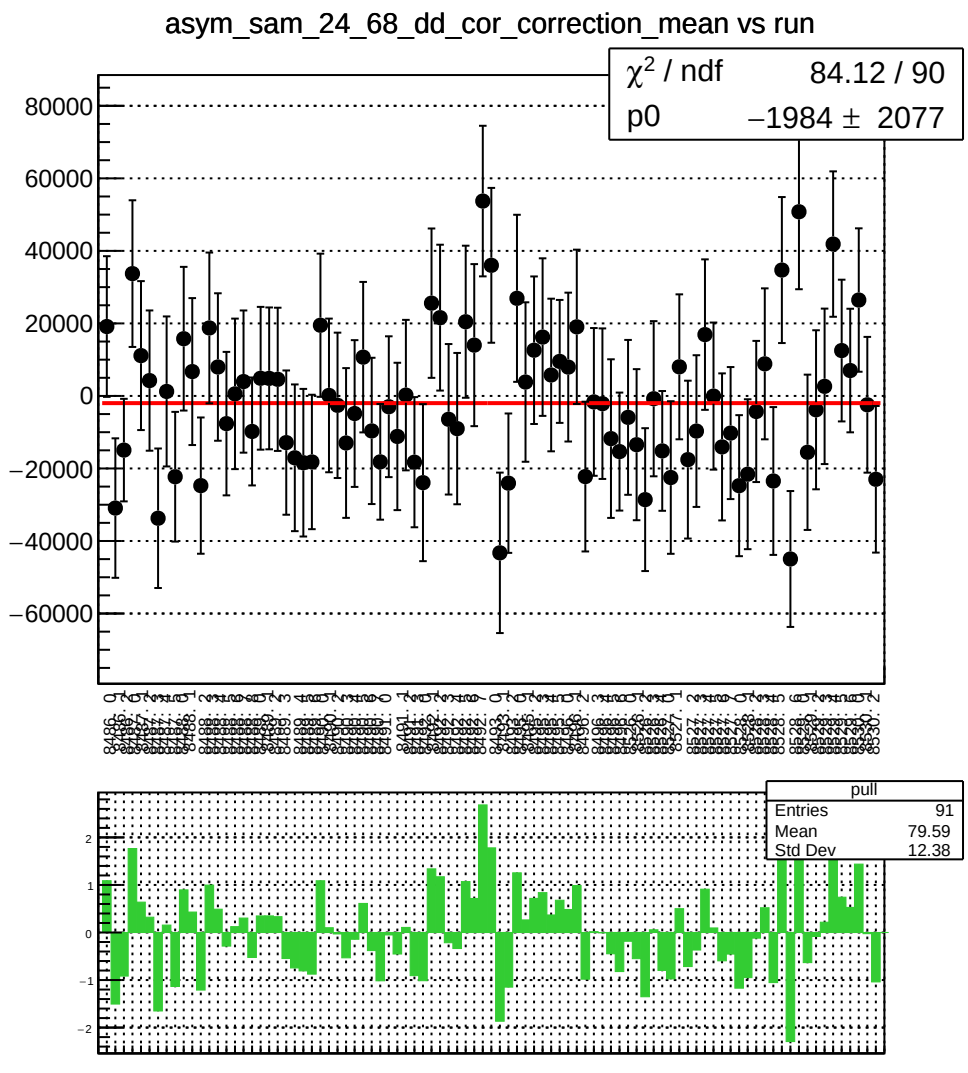

pull1D
Entries 91
Mean 0.0231
Std Dev 0.9612

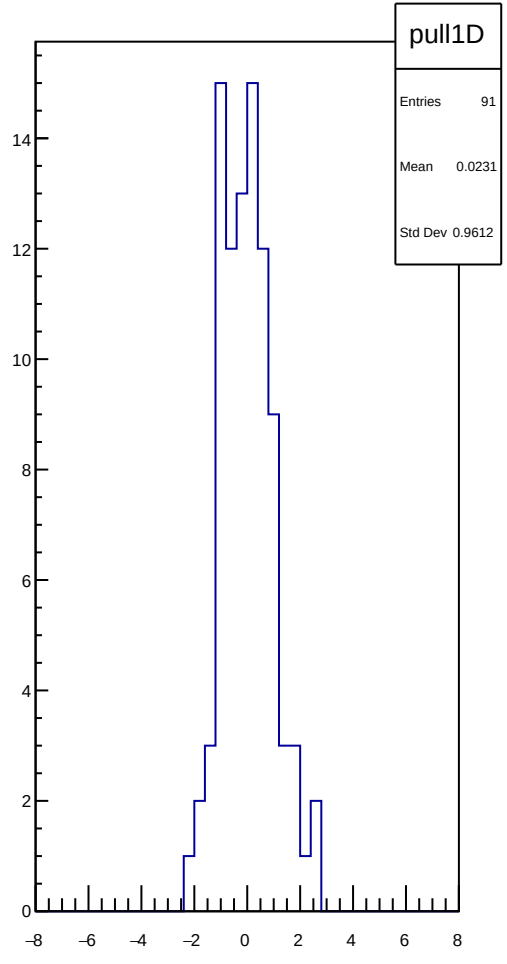

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 2957 / 90
p0 1941 ± 1.469
2200
2100
2000
1900
1800

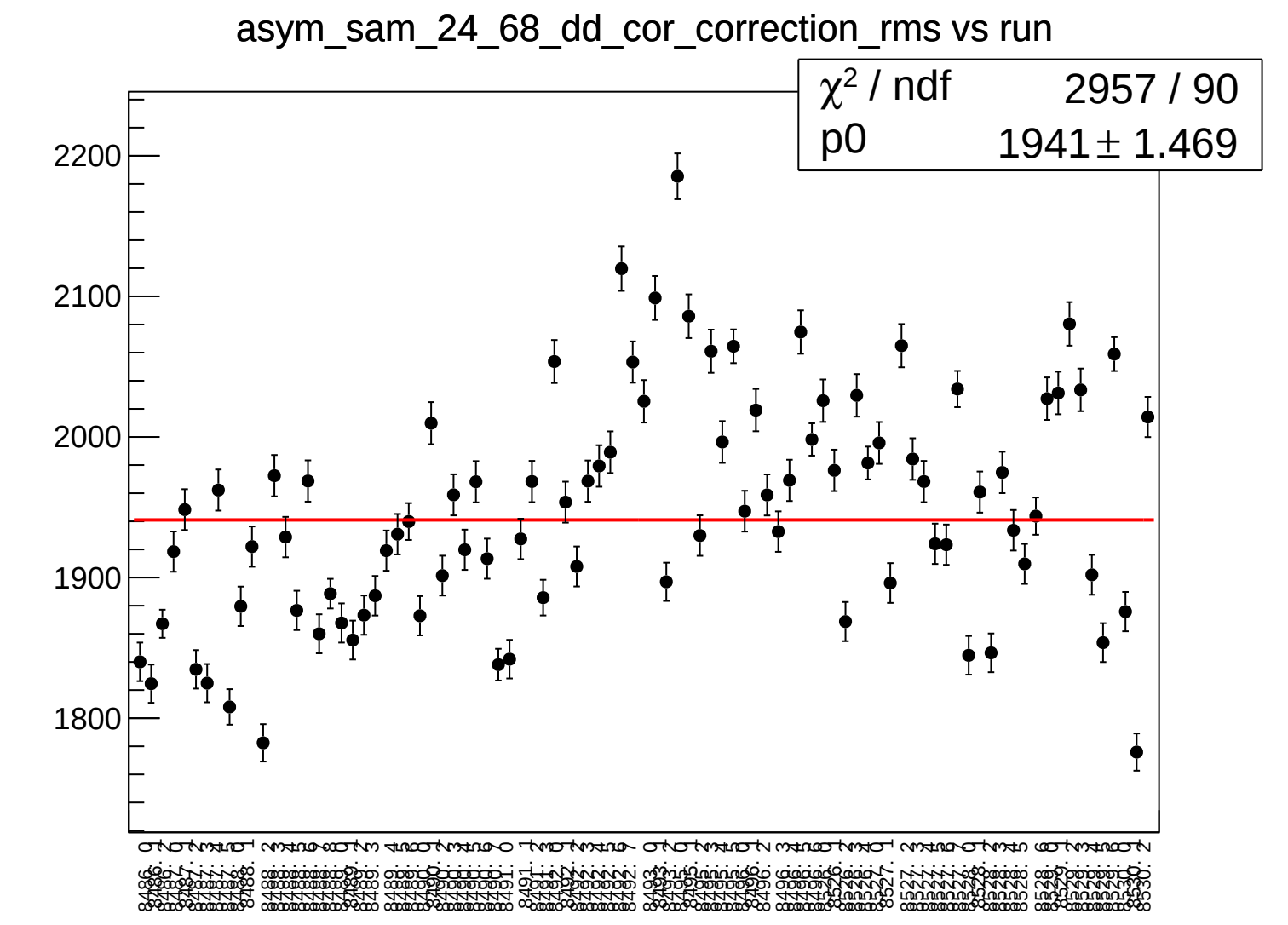

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 81.27 / 90
p0 189.6 ± 89.85
pull
Entries 91
Mean −647.6
Std Dev 0

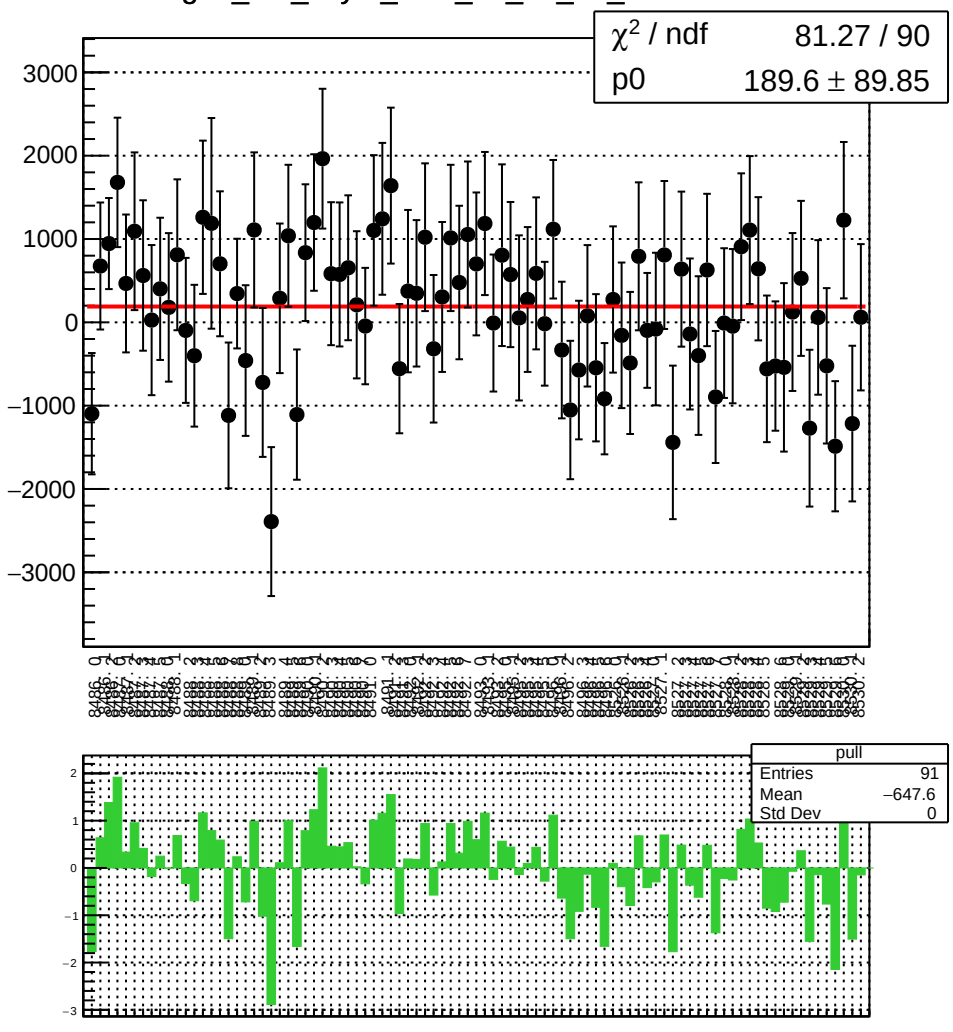

pull1D
Entries 91
Mean 0.009516
Std Dev 0.945

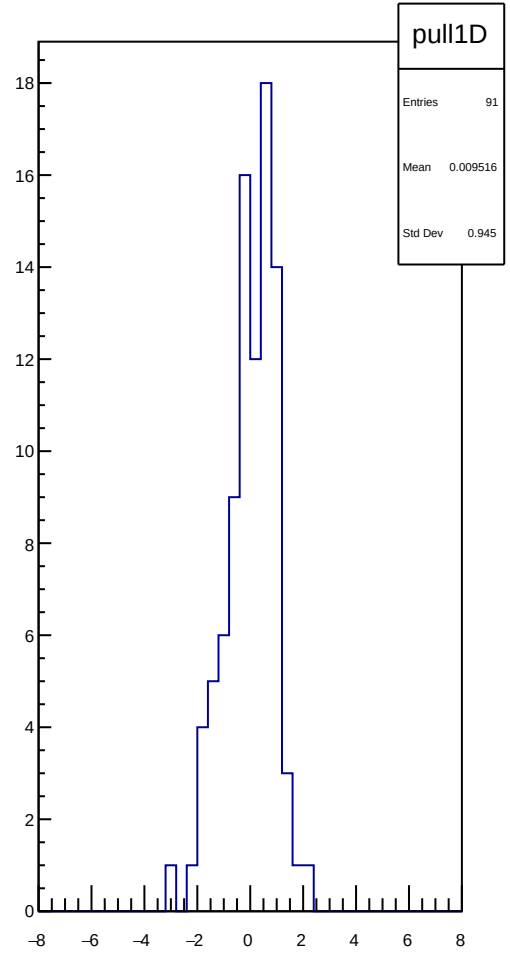

cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 8157 / 90
p0 83.84 ± 0.06353
120
110
100
90
80
70

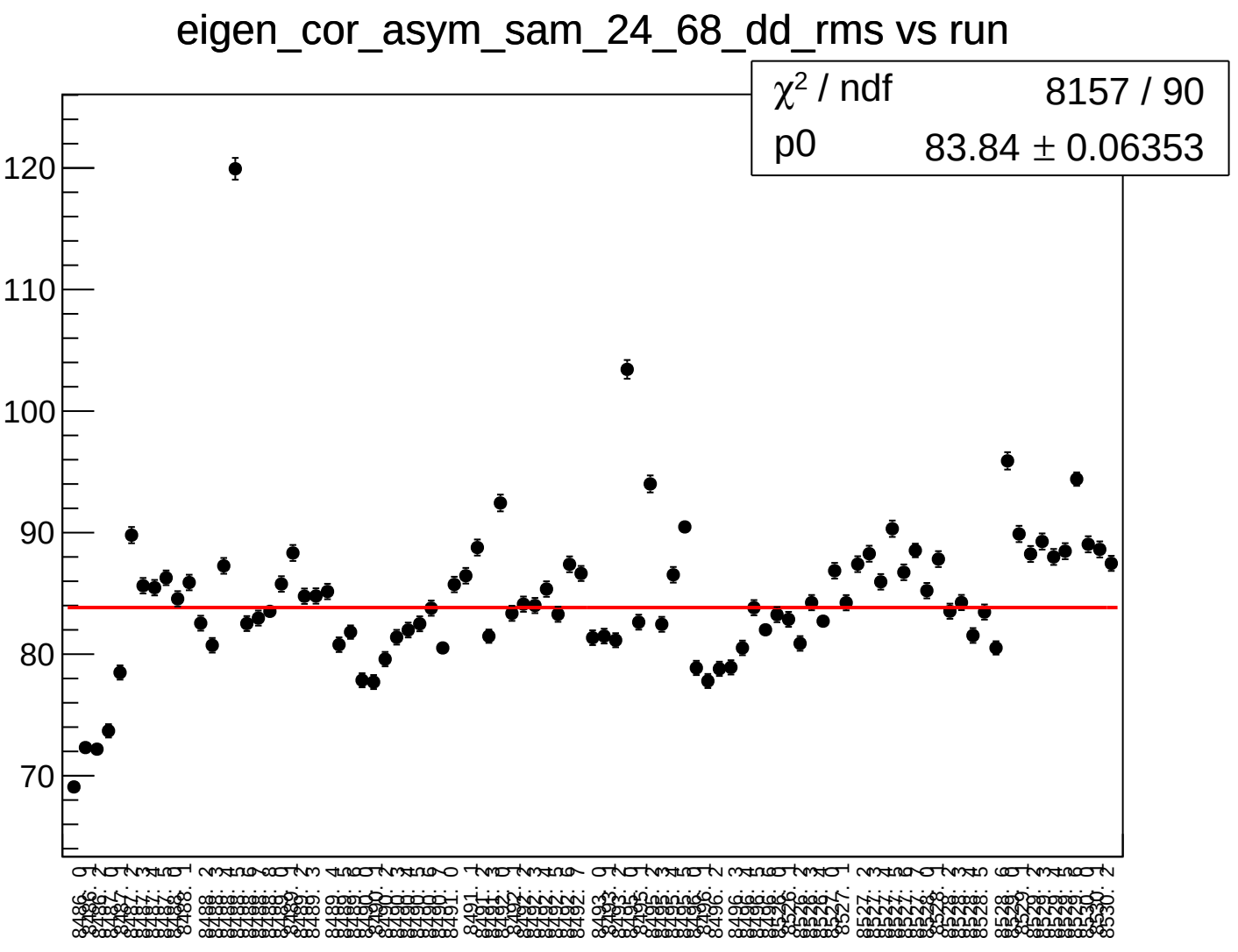

asym_sam_24_68_dd_cor_correction_mean vs run
χ² / ndf 84.12 / 90
p0 −1984 ± 2077
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 79.59
Std Dev 12.38
2
1
0
−1
−2

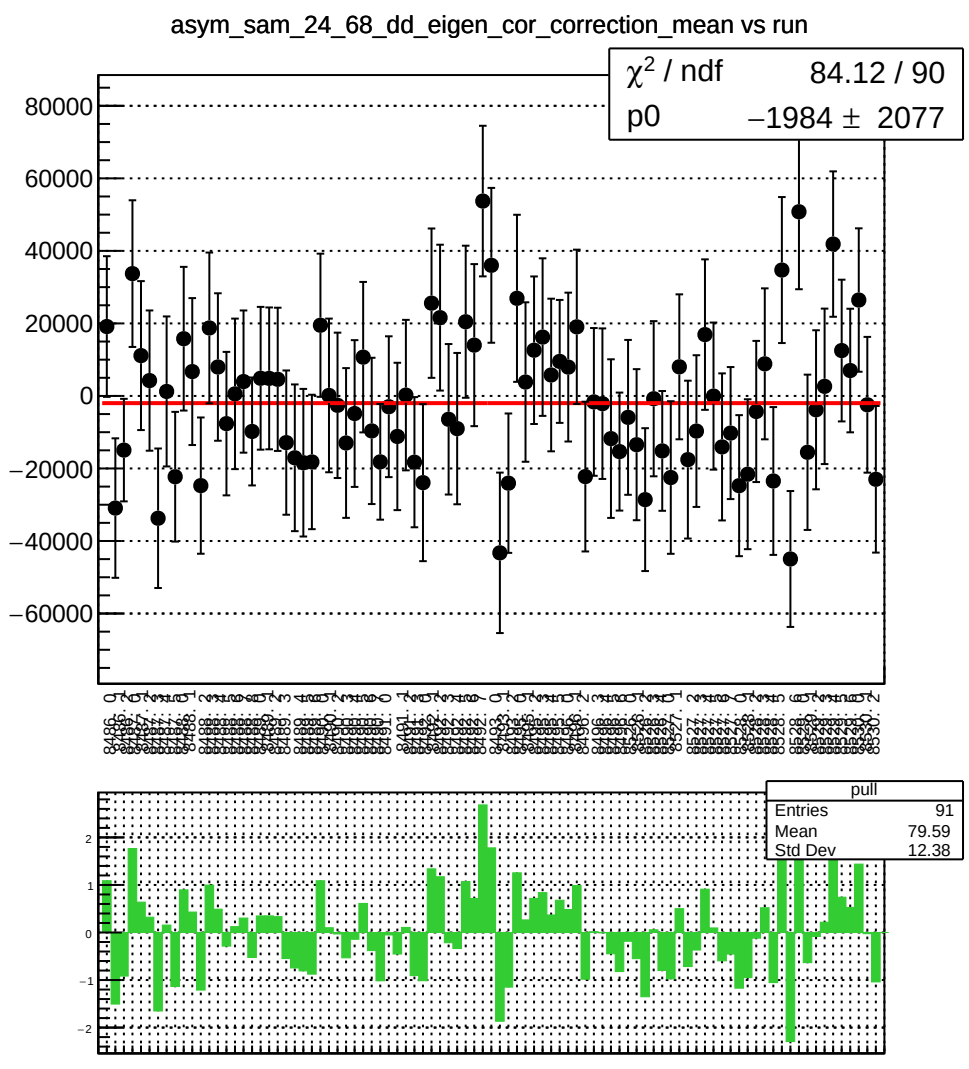

pull1D
Entries 91
Mean 0.0231
Std Dev 0.9612
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

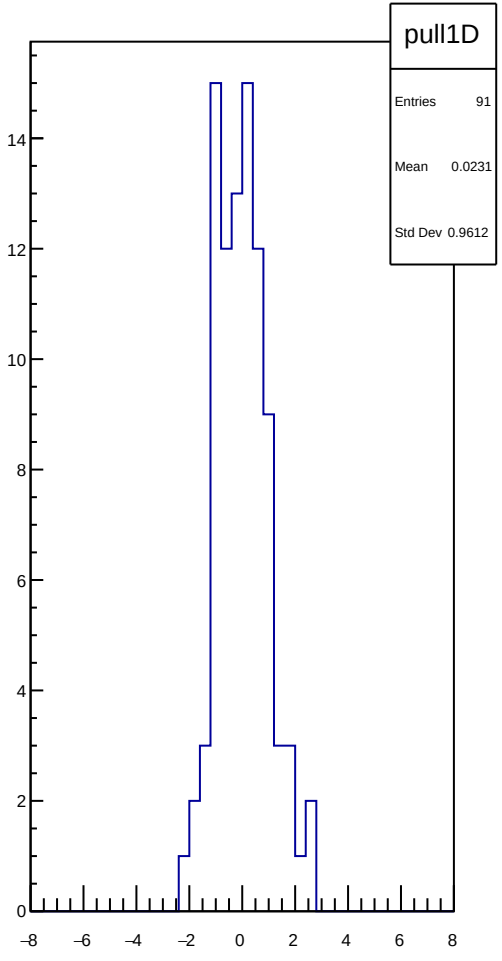

asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 2957 / 90
p0 1941 ± 1.469
2200
2100
2000
1900
1800

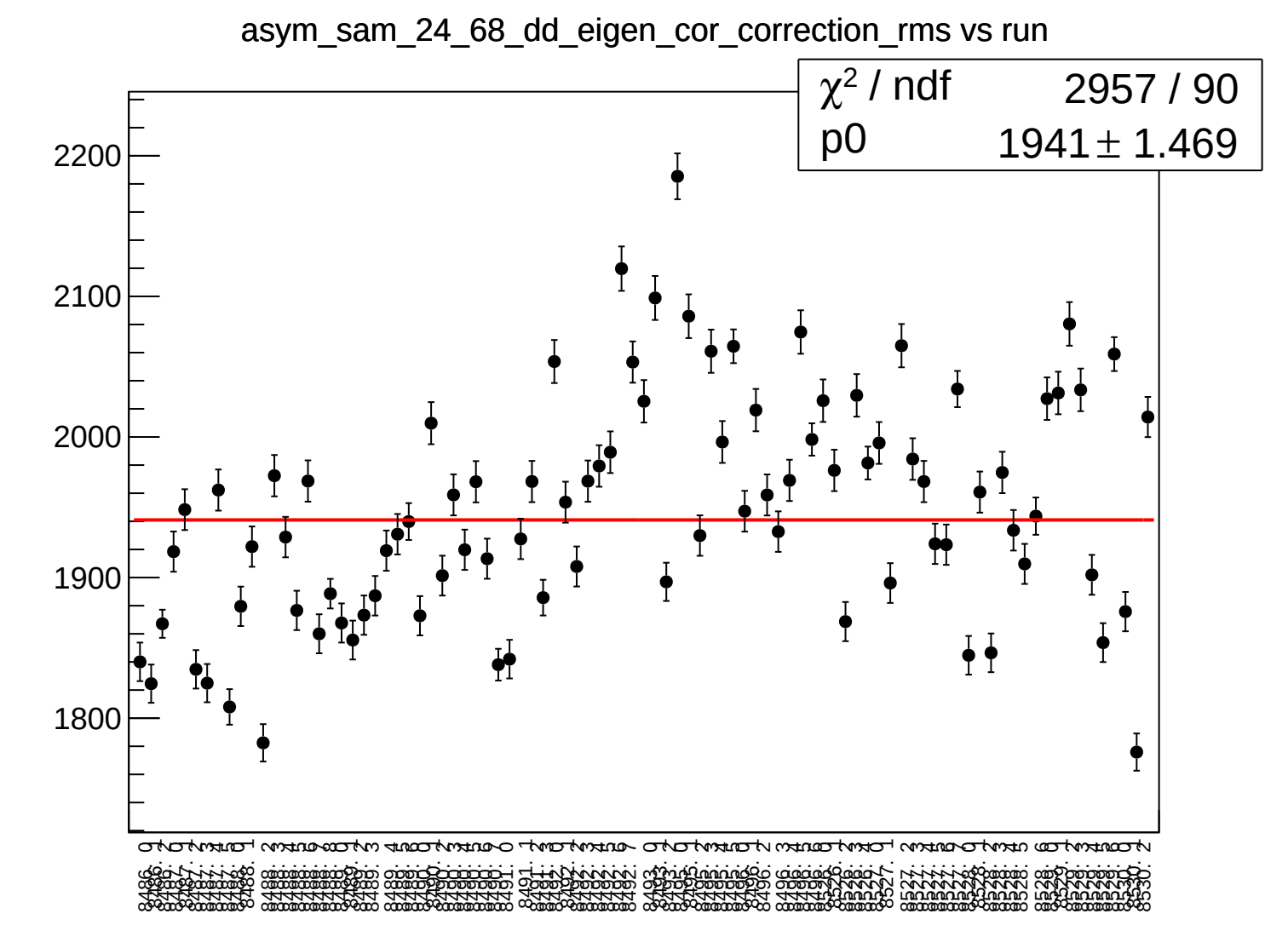

eigen_cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 81.27 / 90
p0 189.6 ± 89.85
pull
Entries 91
Mean −647.6
Std Dev 0

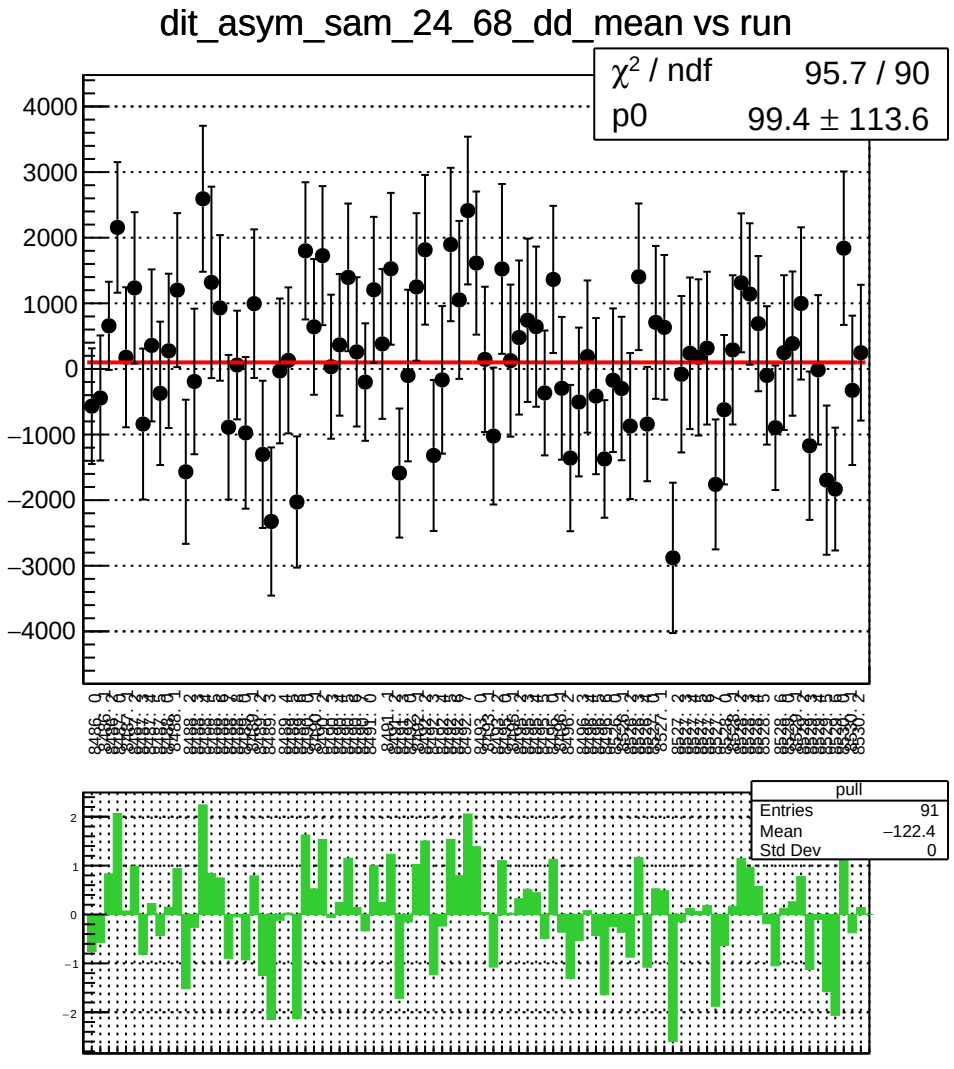

pull1D
Entries 91
Mean 0.009516
Std Dev 0.945

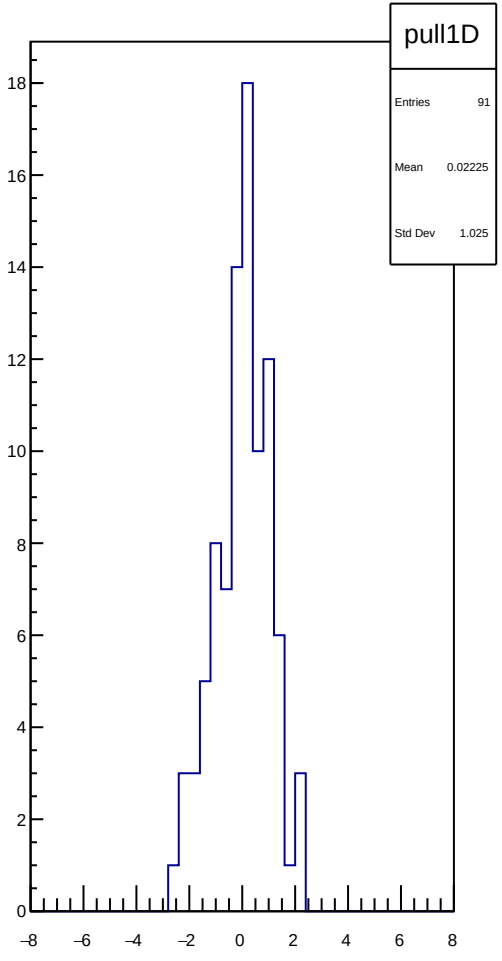

eigen_cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 8157 / 90
p0 83.84 ± 0.06353
120
110
100
90
80
70

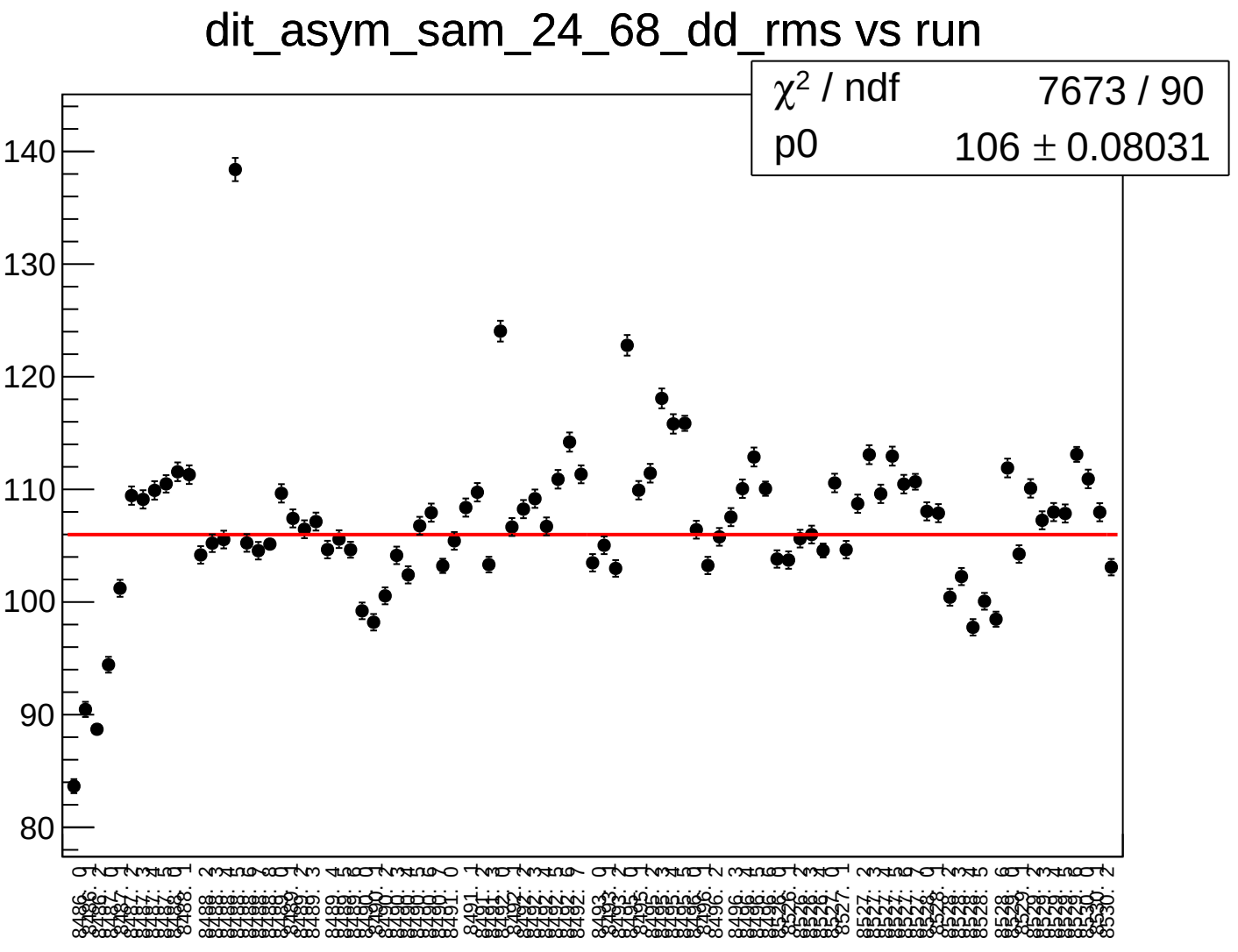

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
χ² / ndf 84.12 / 90
p0 −1984 ± 2077
pull
Entries 91
Mean 79.59
Std Dev 12.38

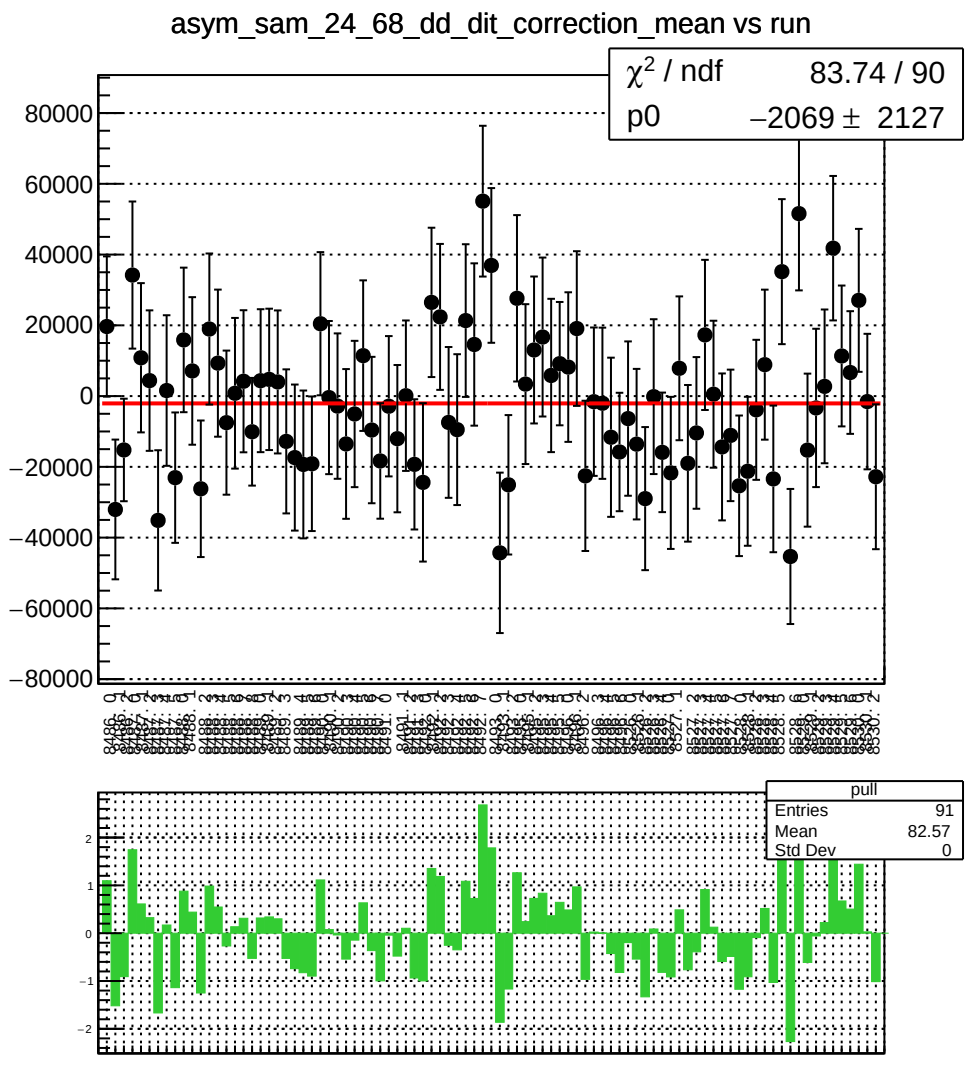

pull1D
Entries 91
Mean 0.0231
Std Dev 0.9612

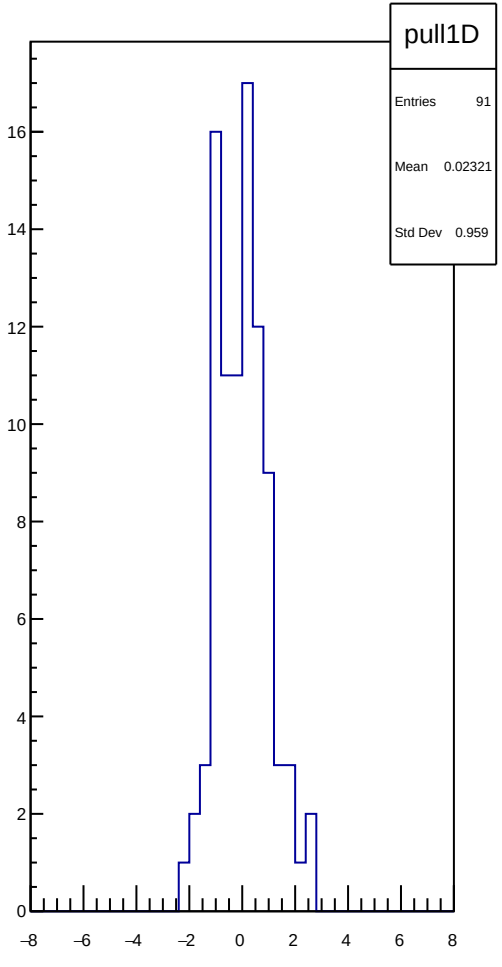

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 2957 / 90
p0 1941 ± 1.469
2200
2100
2000
1900
1800

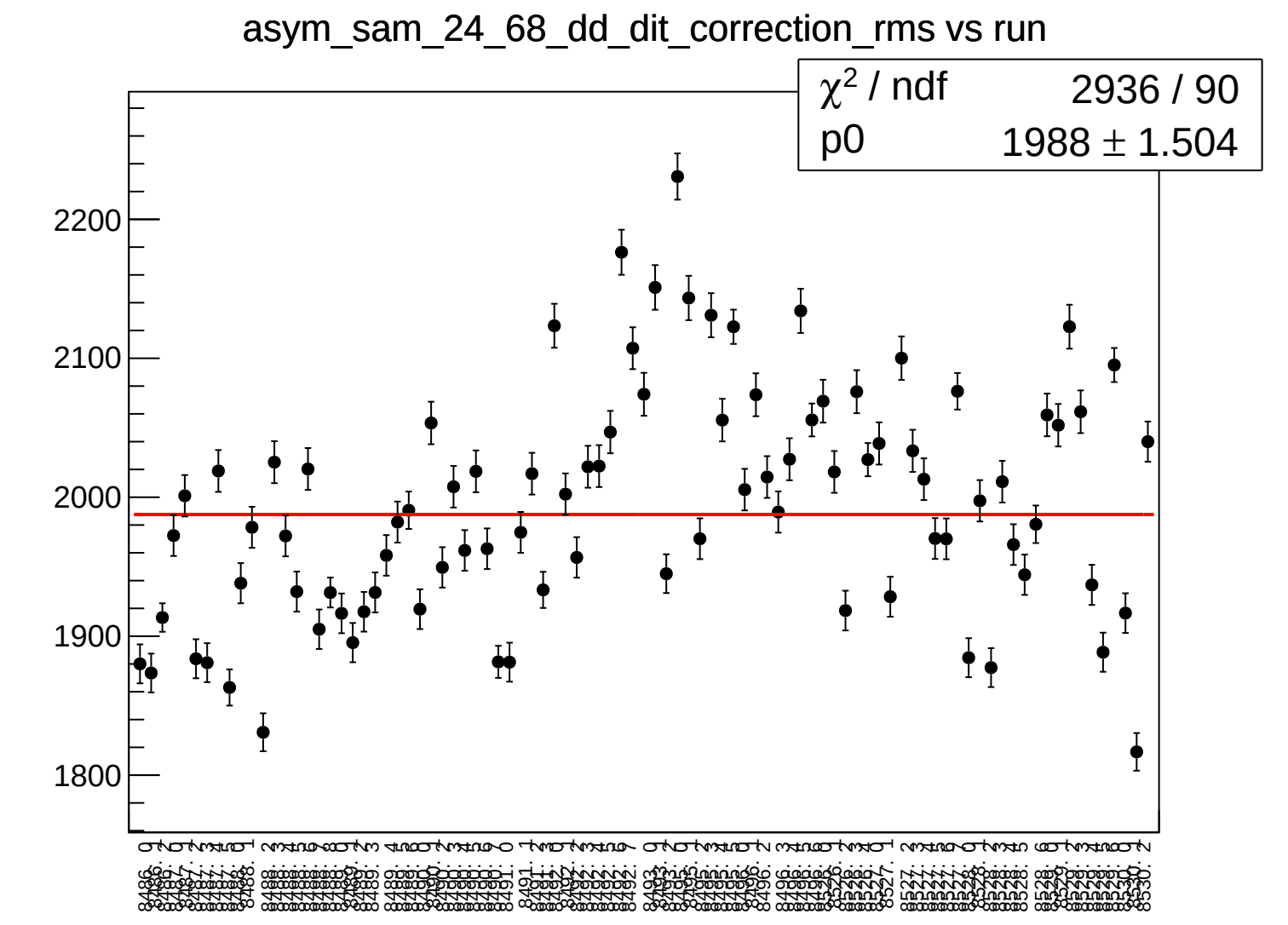

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 95.7 / 90
p0 99.4 ± 113.6
pull
Entries 91
Mean −122.4
Std Dev 0

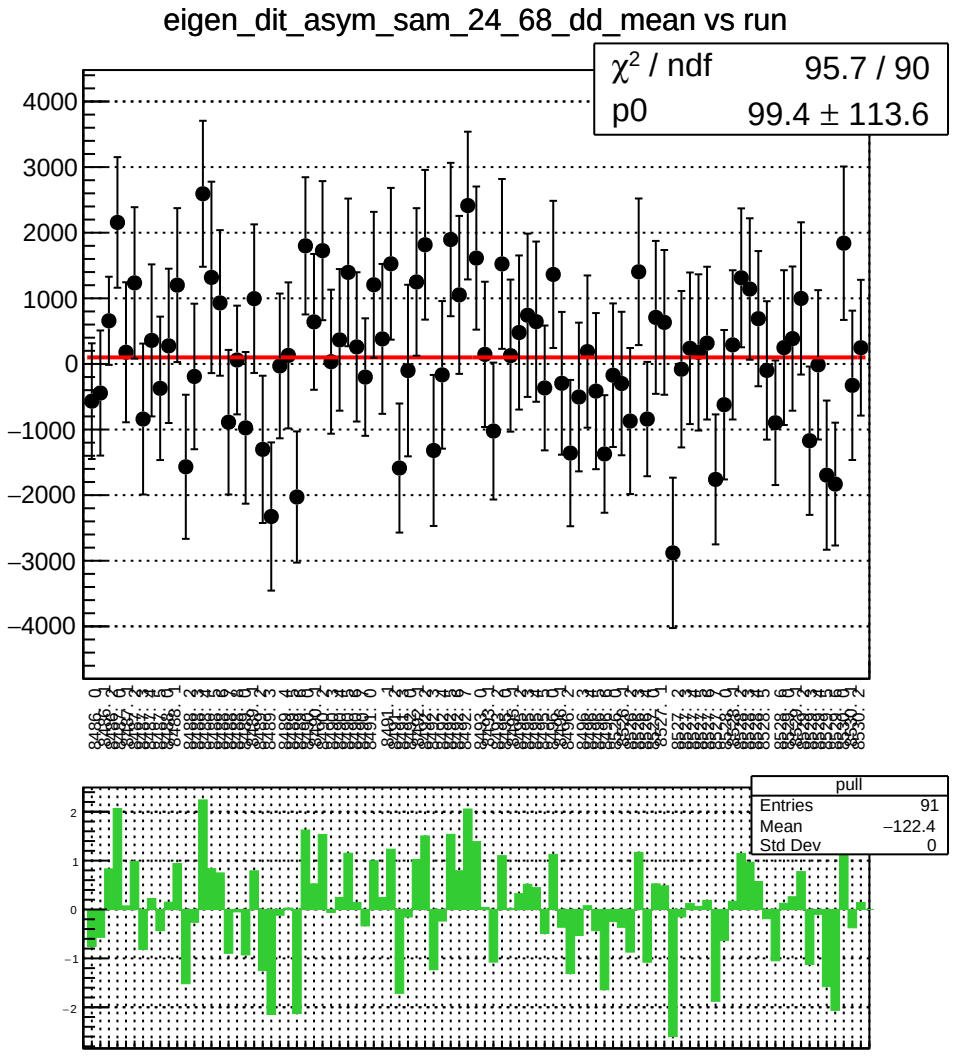

pull1D
Entries 91
Mean 0.02225
Std Dev 1.025

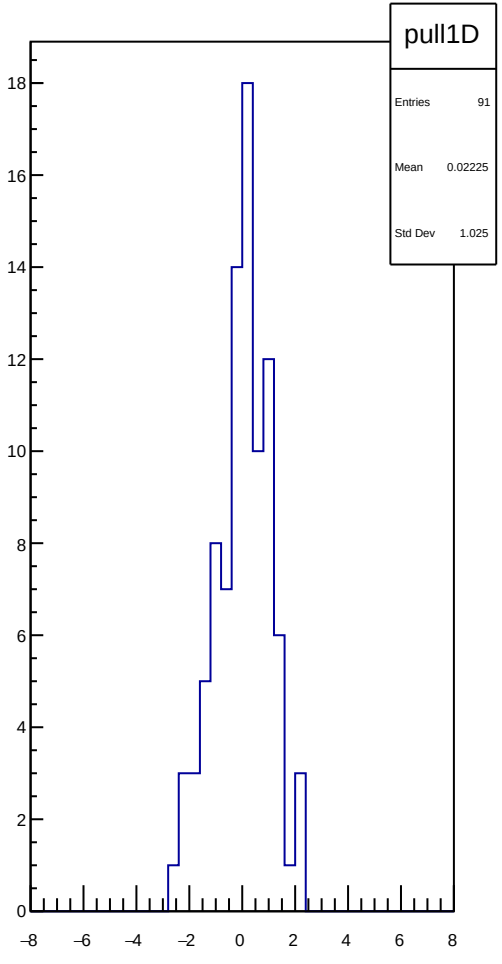

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 7673 / 90
p0 106 ± 0.08031
140
130
120
110
100
90
80

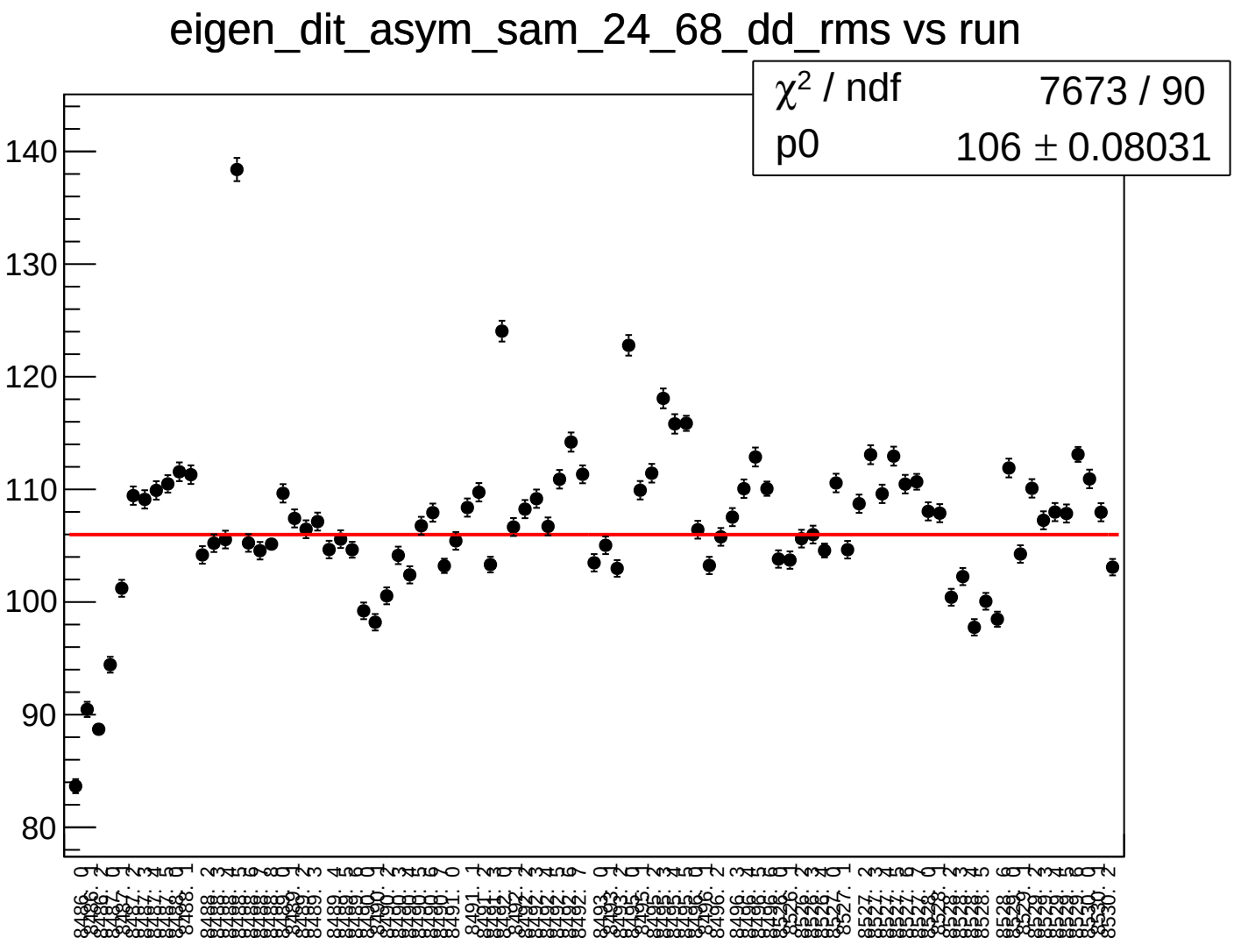

asym_sam_24_68_dd_dit_correction_mean vs run
χ² / ndf 83.74 / 90
p0 −2069 ± 2127
pull
Entries 91
Mean 82.57
Std Dev 0

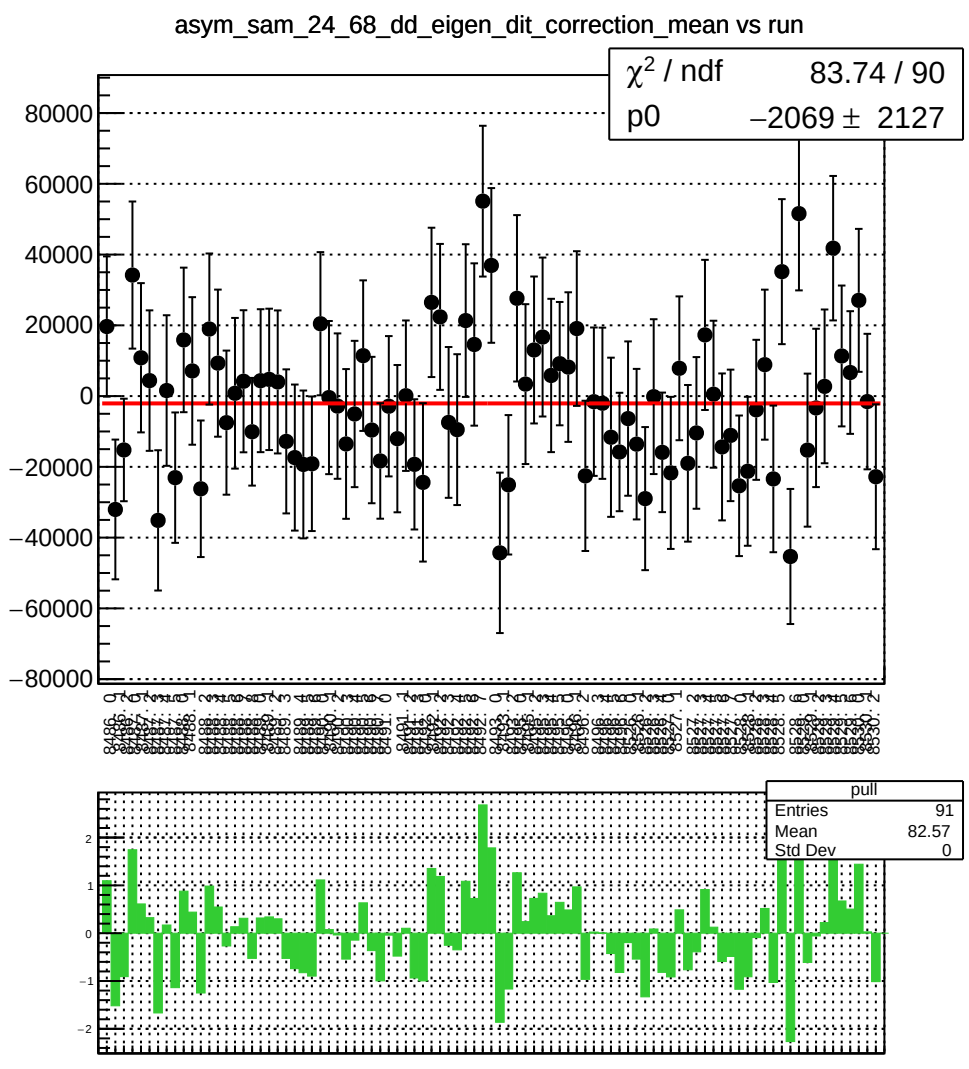

pull1D
Entries 91
Mean 0.02321
Std Dev 0.959

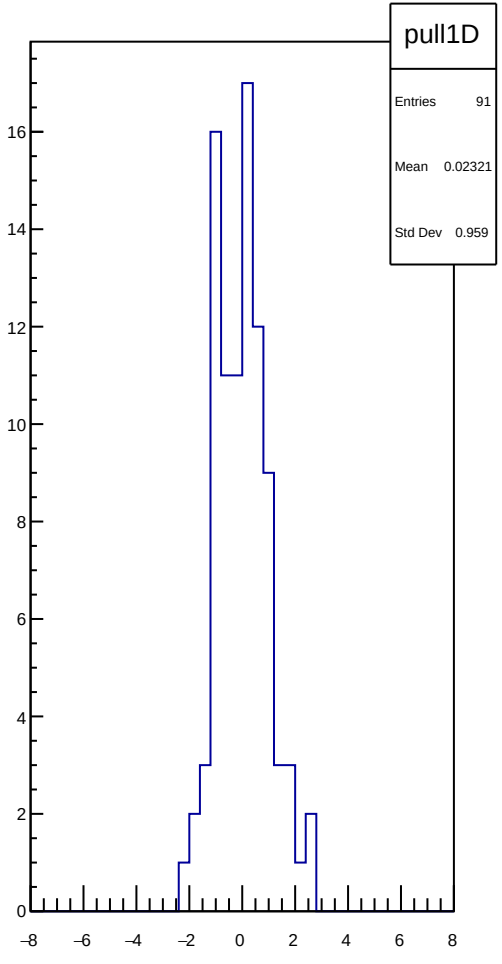

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 2936 / 90
p0 1988 ± 1.504
2200
2100
2000
1900
1800

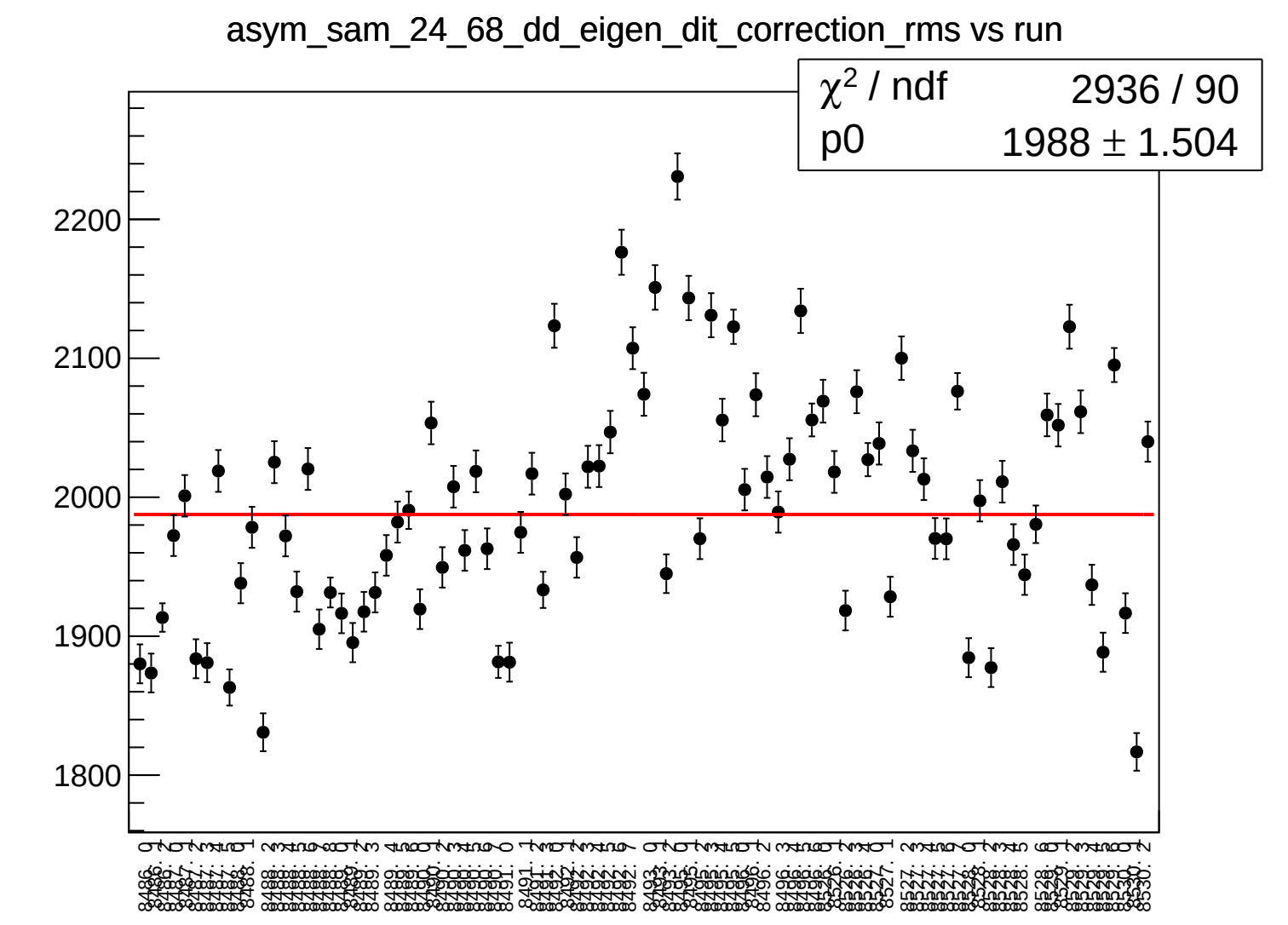

eigen_dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 95.7 / 90
p0 99.4 ± 113.6
pull
Entries 91
Mean −122.4
Std Dev 0

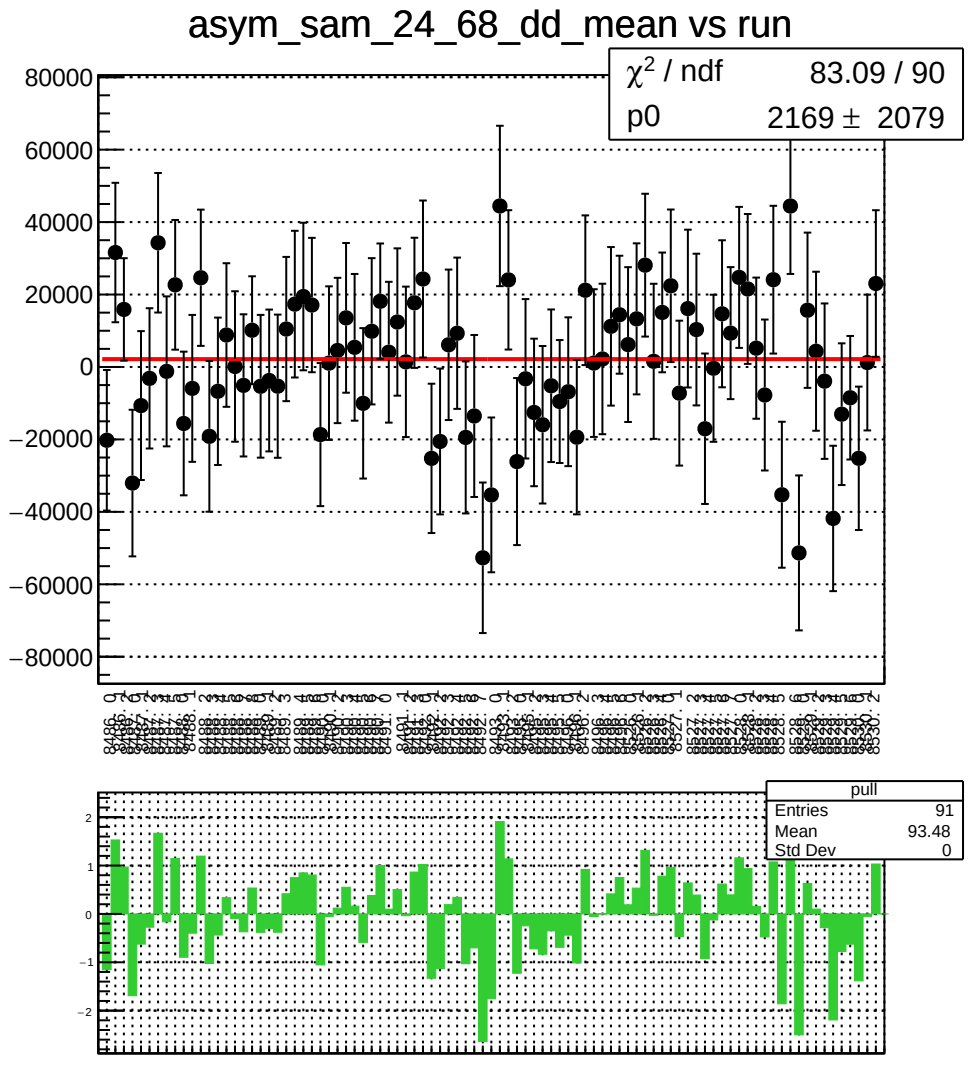

pull1D
Entries 91
Mean 0.02225
Std Dev 1.025

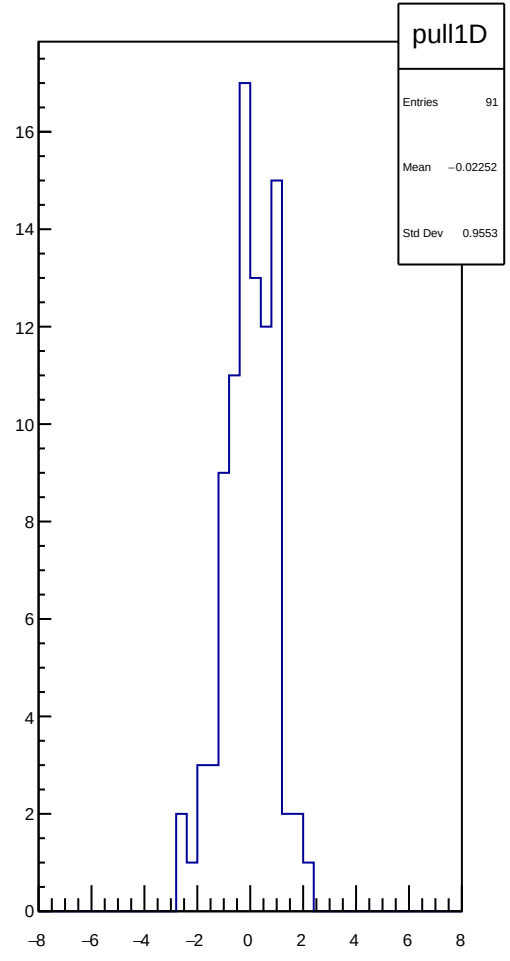

eigen_dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 7673 / 90
p0 106 ± 0.08031
140
130
120
110
100
90
80

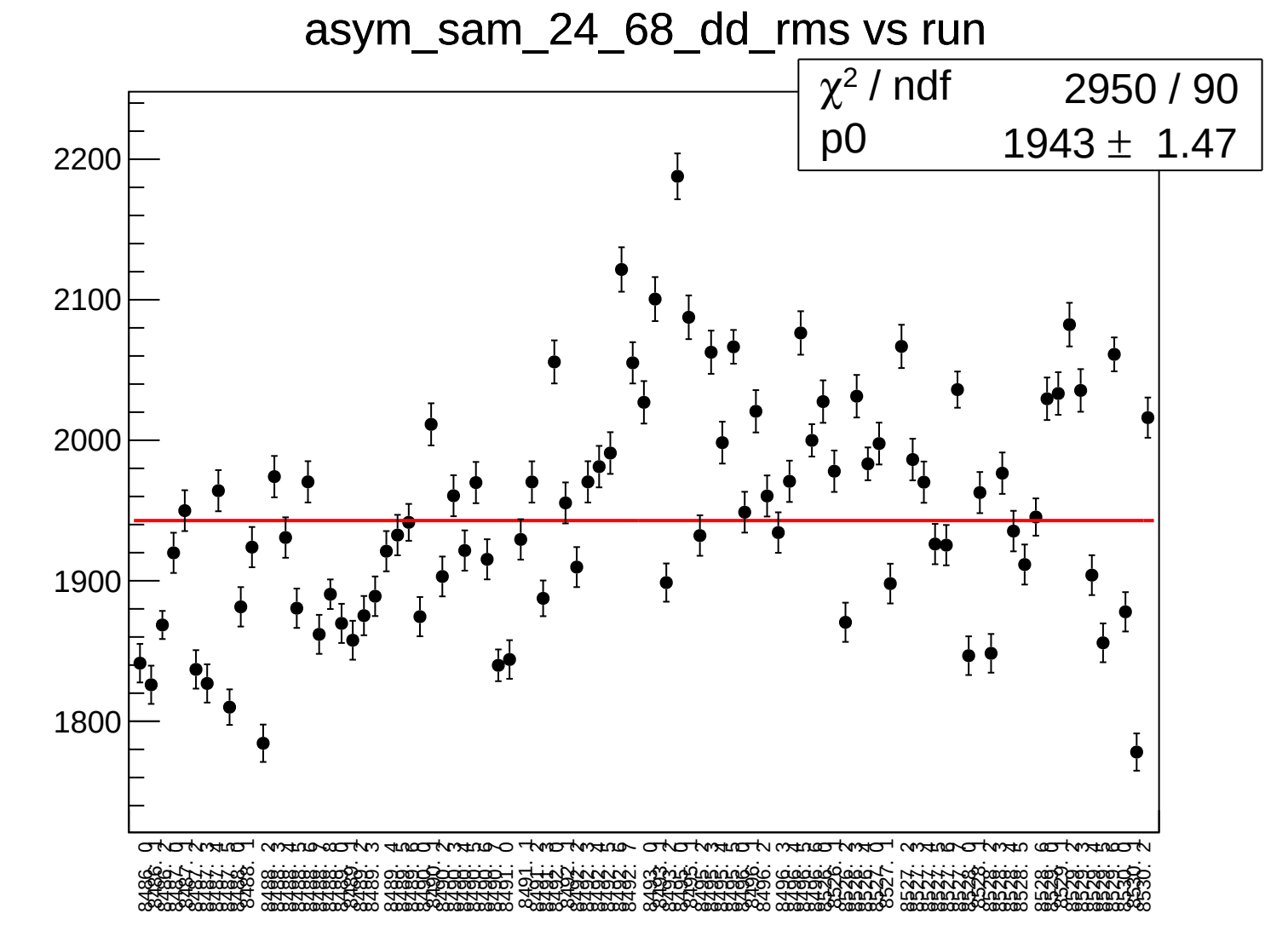

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
χ² / ndf 83.74 / 90
p0 −2069 ± 2127
pull
Entries 91
Mean 82.57
Std Dev 0

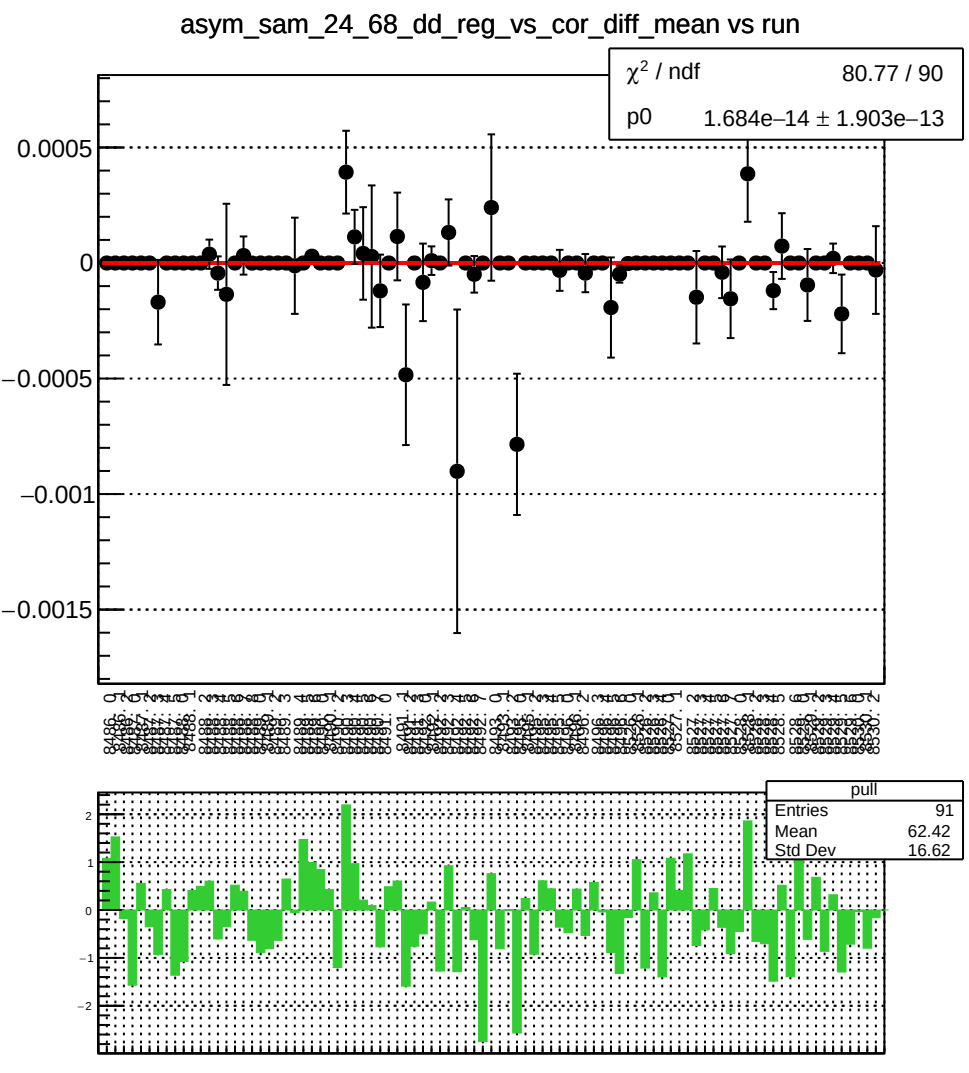

pull1D
Entries 91
Mean 0.02321
Std Dev 0.959

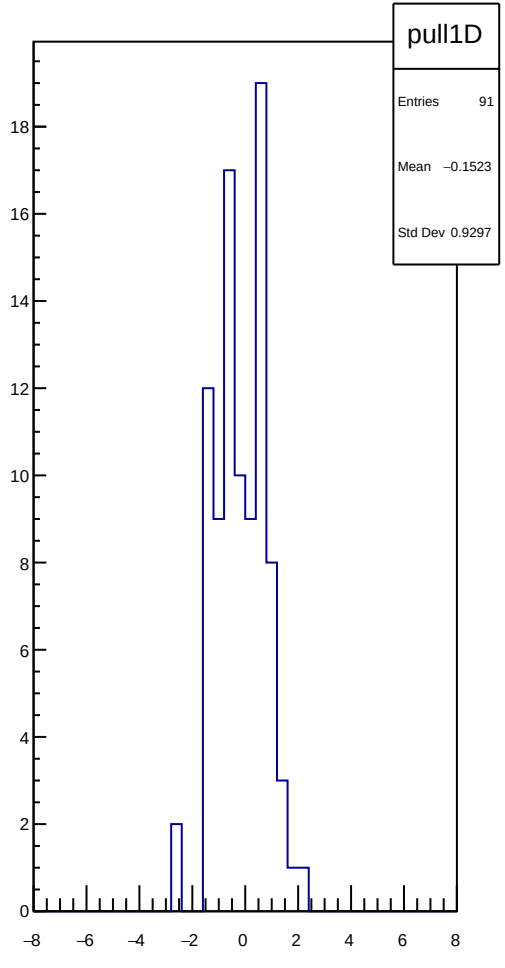

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 2936 / 90
p0 1988 ± 1.504
2200
2100
2000
1900
1800

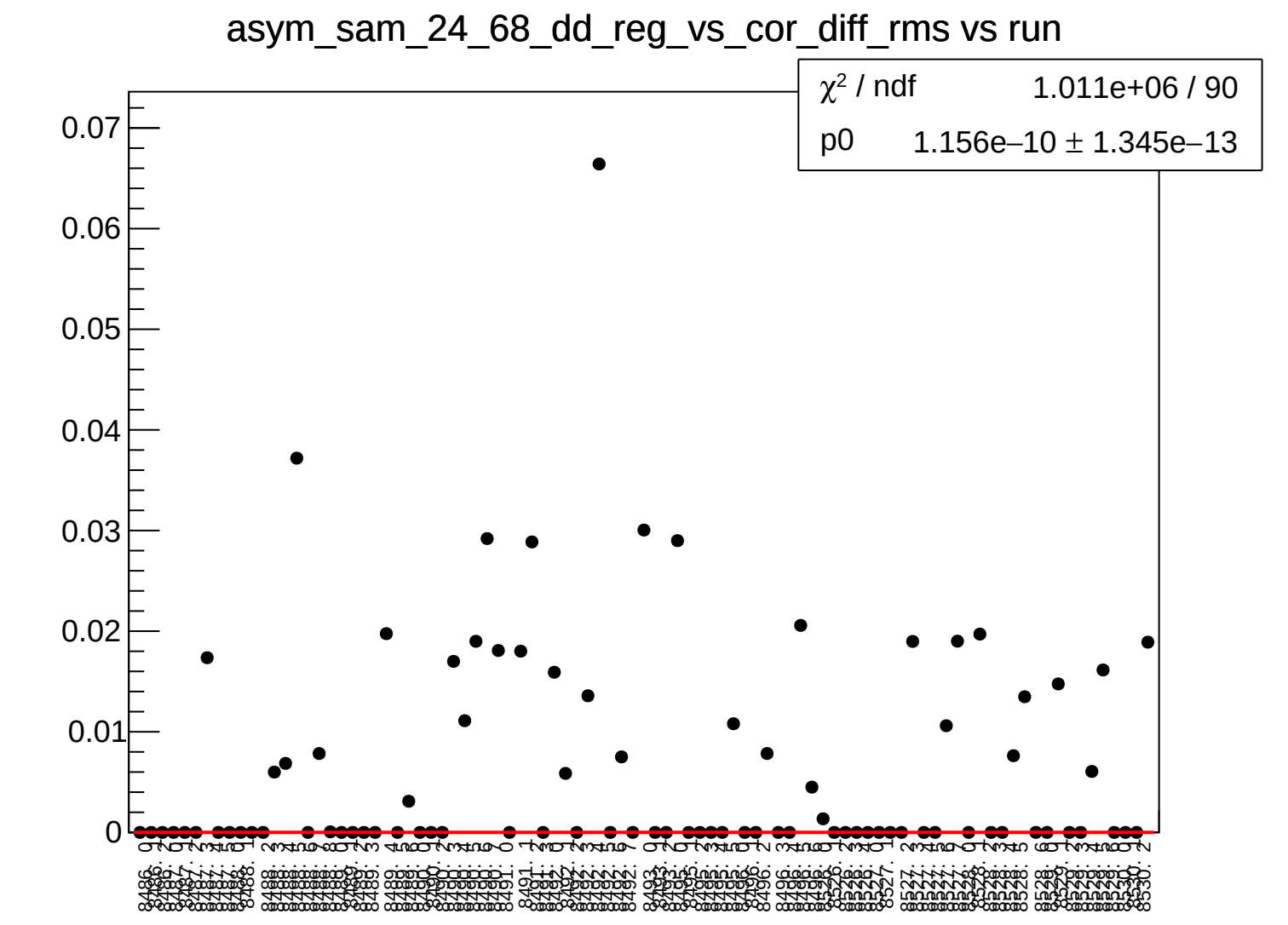

asym_sam_24_68_dd_mean vs run
χ² / ndf 83.09 / 90
p0 2169 ± 2079
pull
Entries 91
Mean 93.48
Std Dev 0

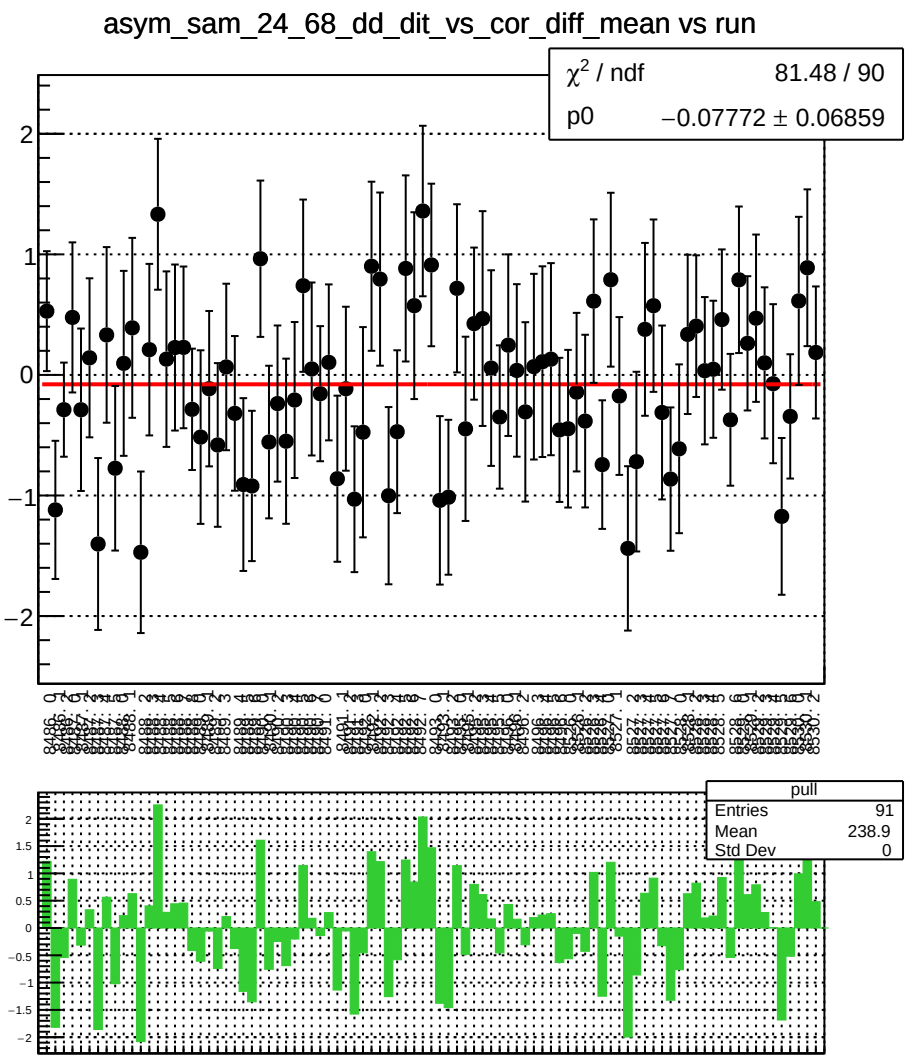

pull1D
Entries 91
Mean −0.02252
Std Dev 0.9553

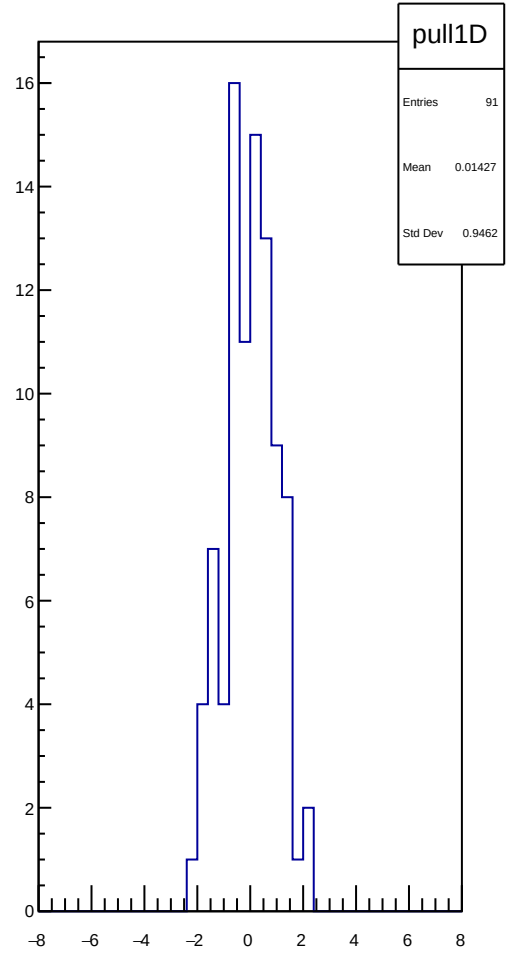

asym_sam_24_68_dd_rms vs run
χ² / ndf 2950 / 90
p0 1943 ± 1.47
2200
2100
2000
1900
1800

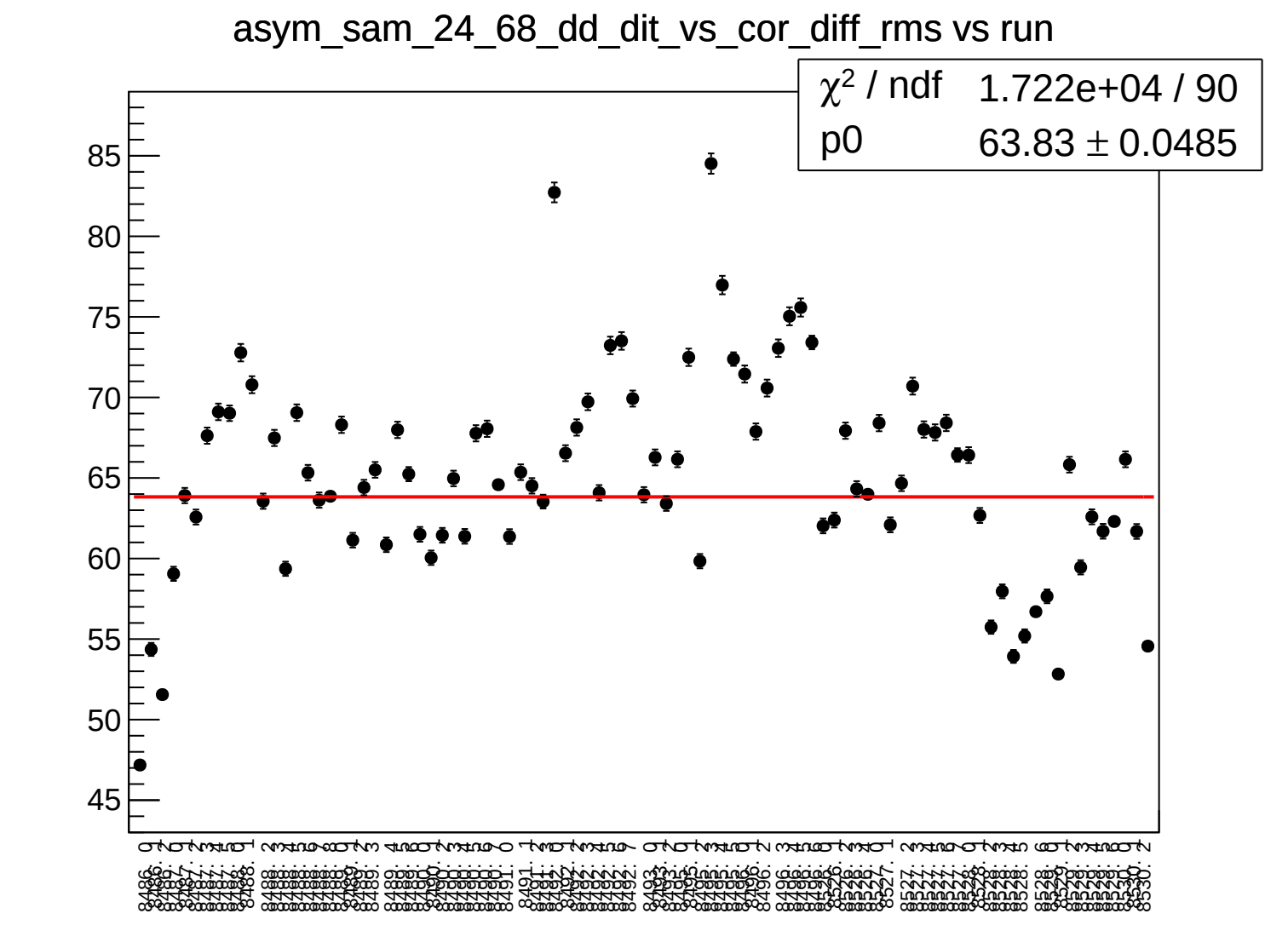

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 80.77 / 90
p0 1.684e−14 ± 1.903e−13
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 91
Mean 62.42
Std Dev 16.62
2
1
0
−1
−2

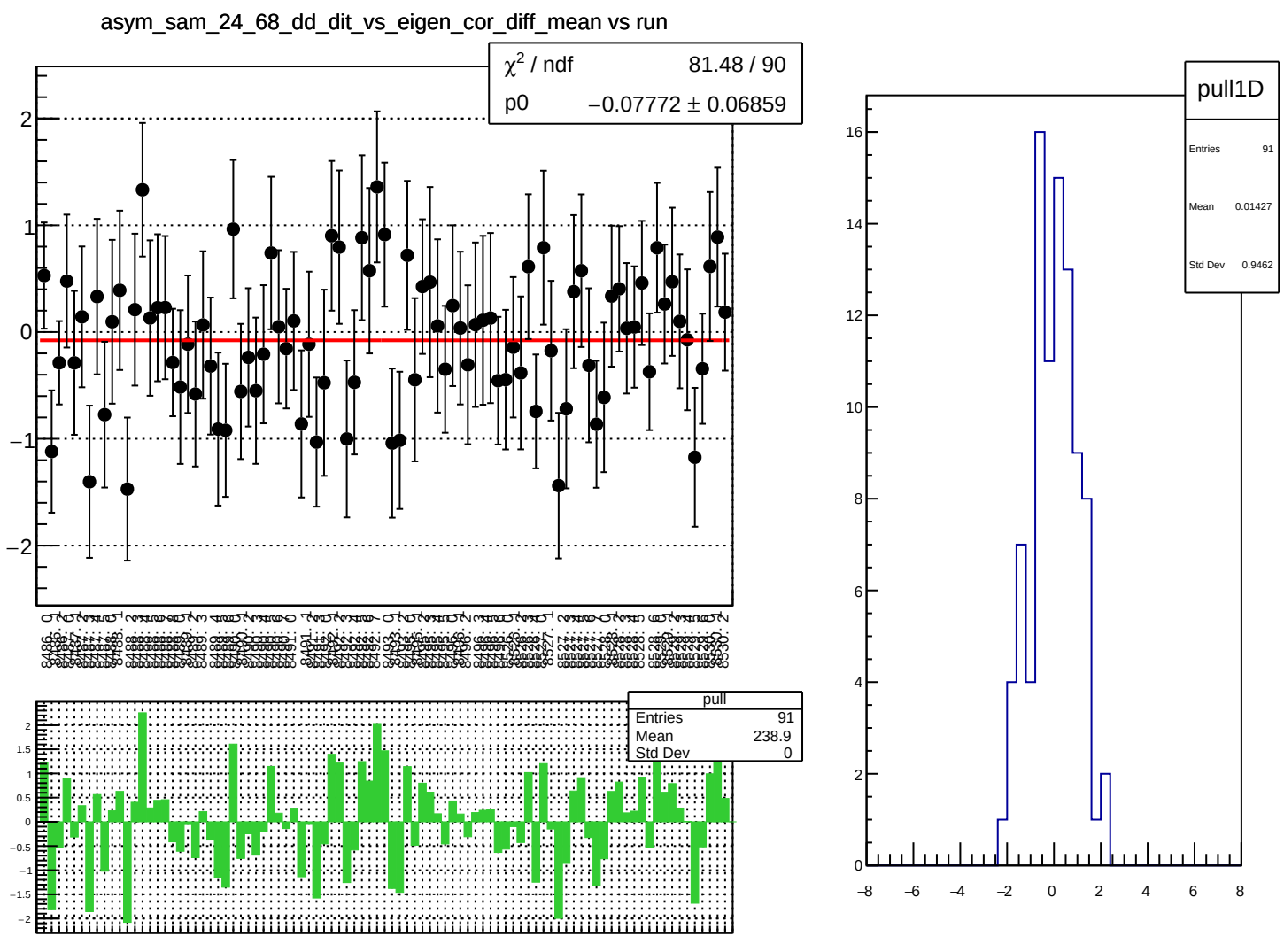

pull1D
Entries 91
Mean −0.1523
Std Dev 0.9297
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

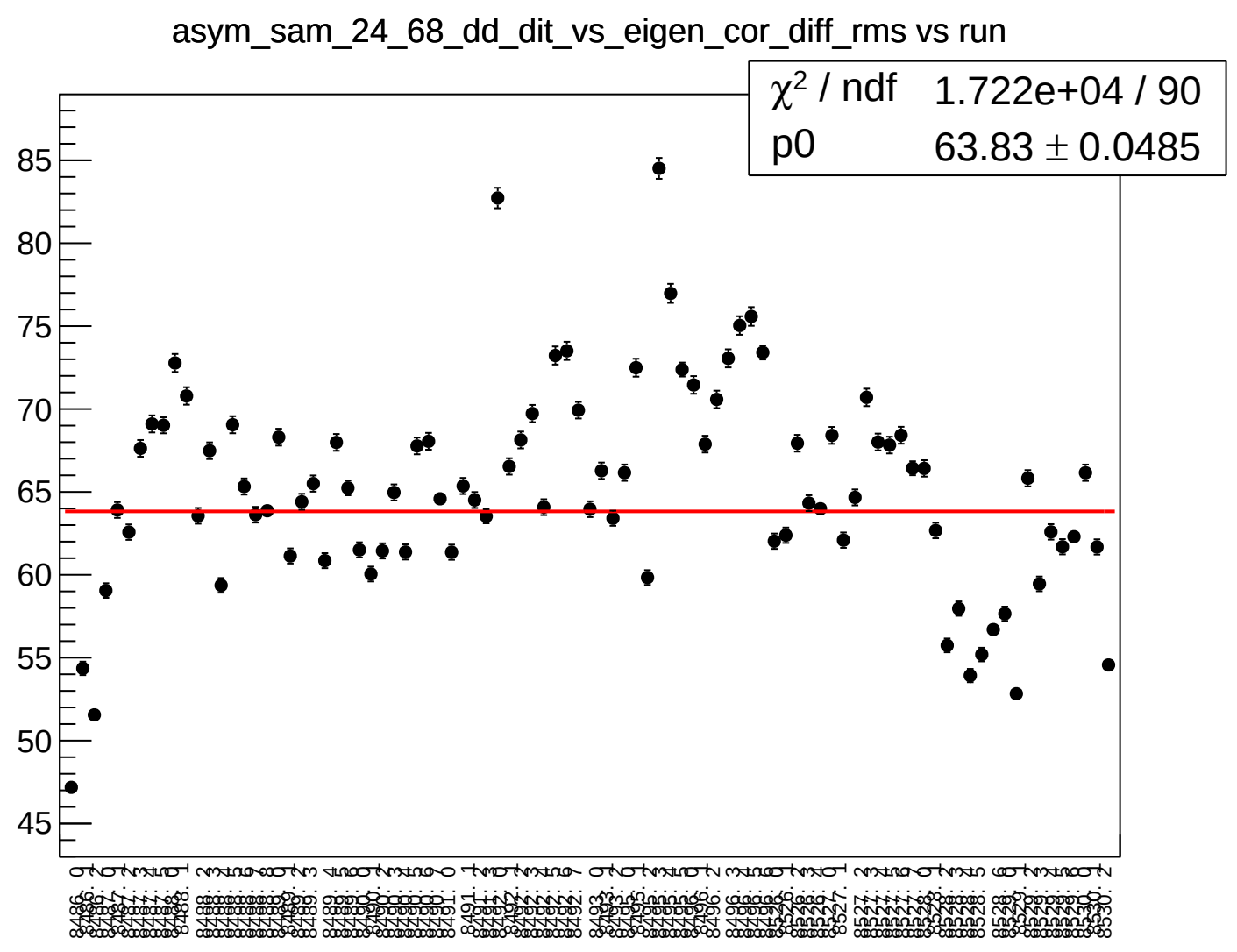

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.011e+06 / 90
p0 1.156e−10 ± 1.345e−13
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

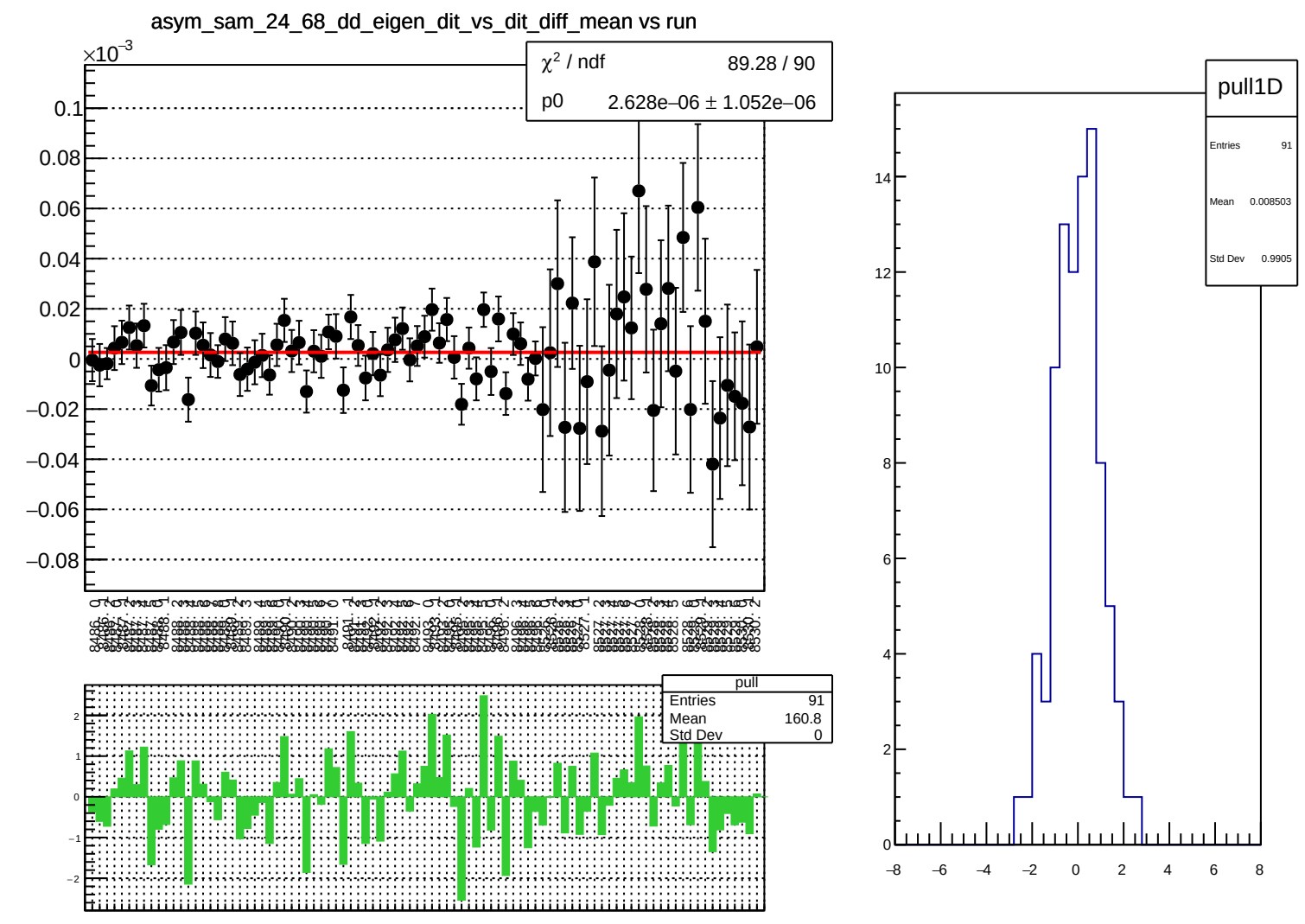

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 81.48 / 90
p0 −0.07772 ± 0.06859
pull
Entries 91
Mean 238.9
Std Dev 0

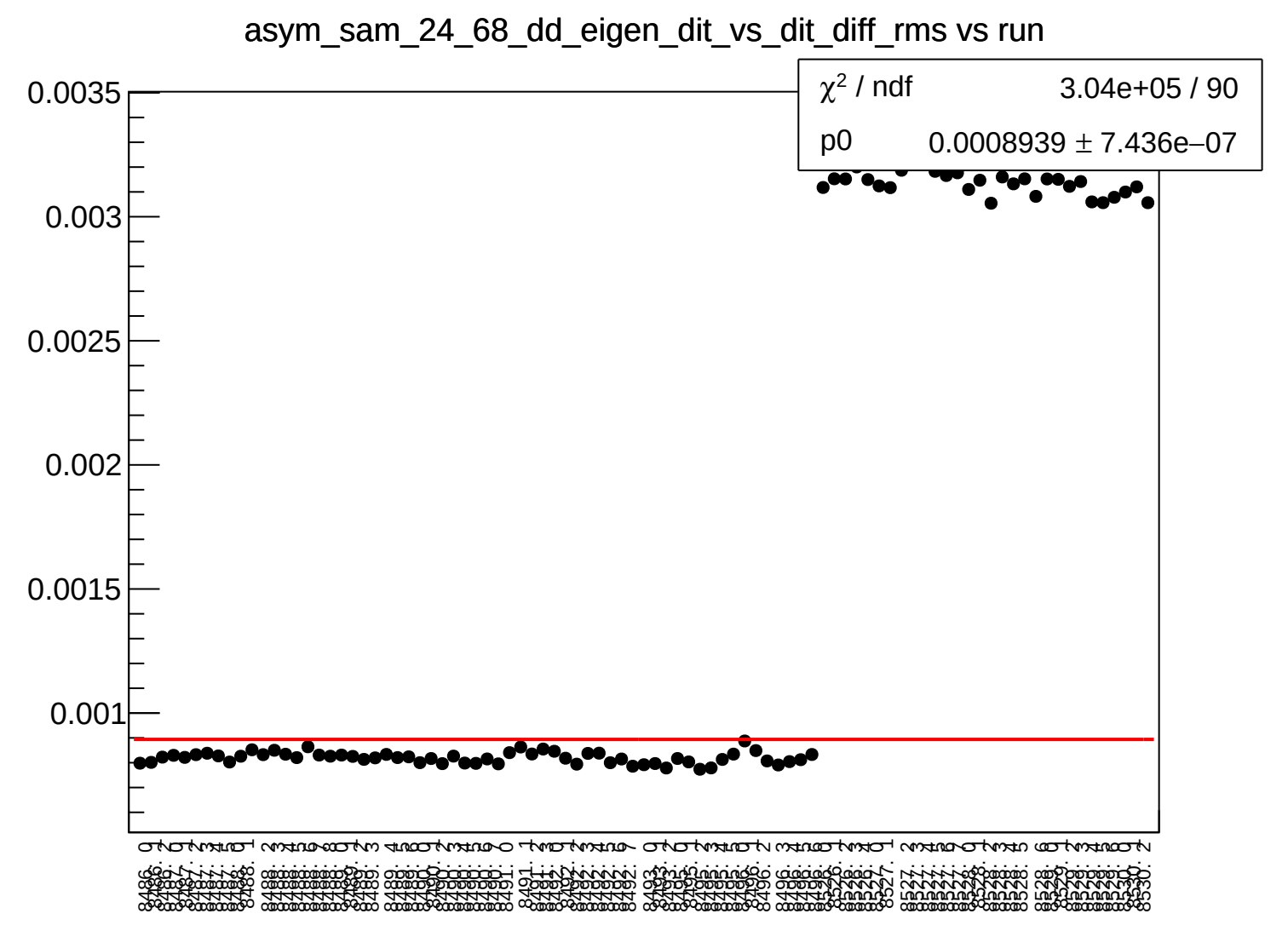

pull1D
Entries 91
Mean 0.01427
Std Dev 0.9462

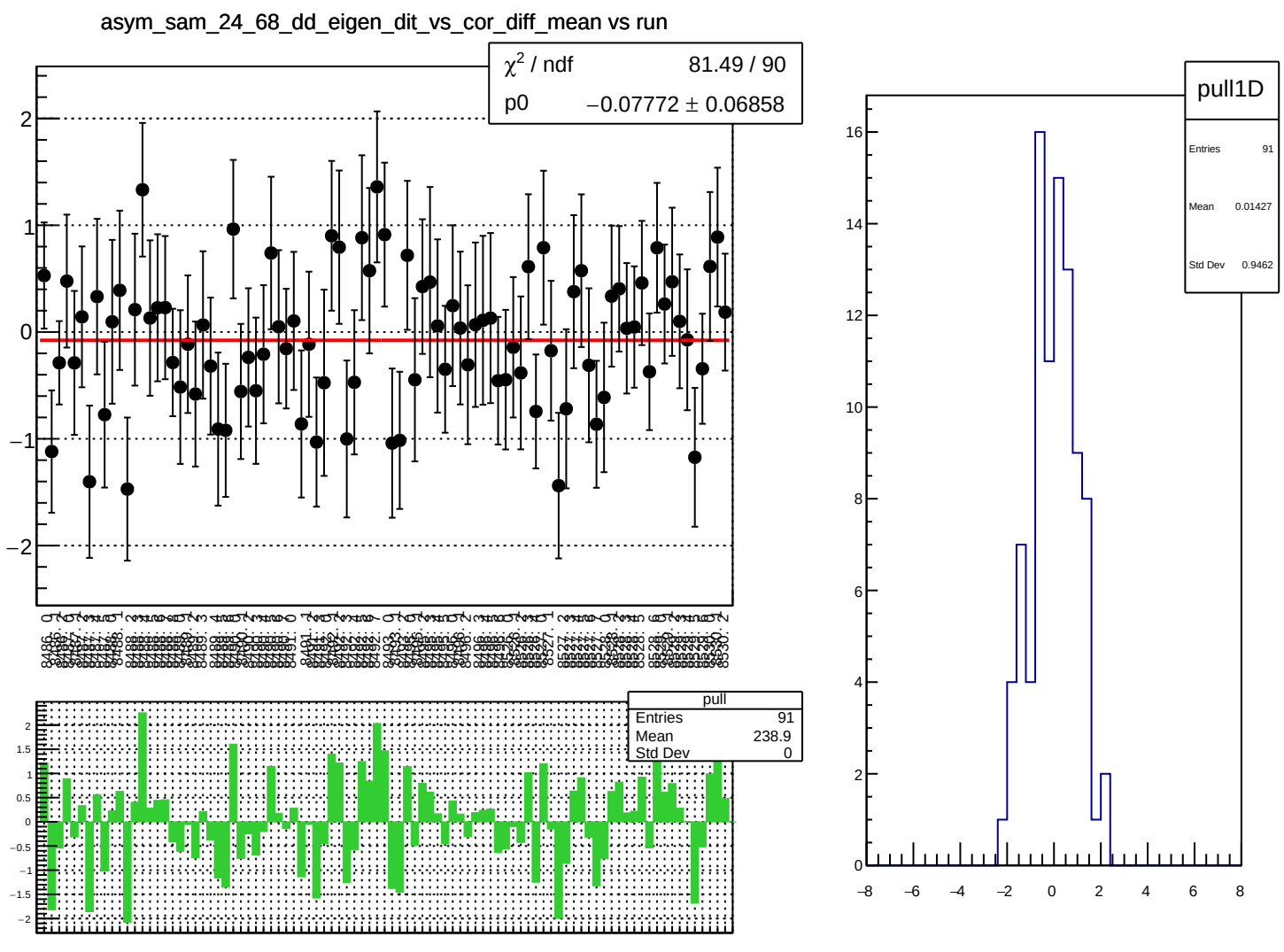

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.722e+04 / 90
p0 63.83 ± 0.0485
85
80
75
70
65
60
55
50
45

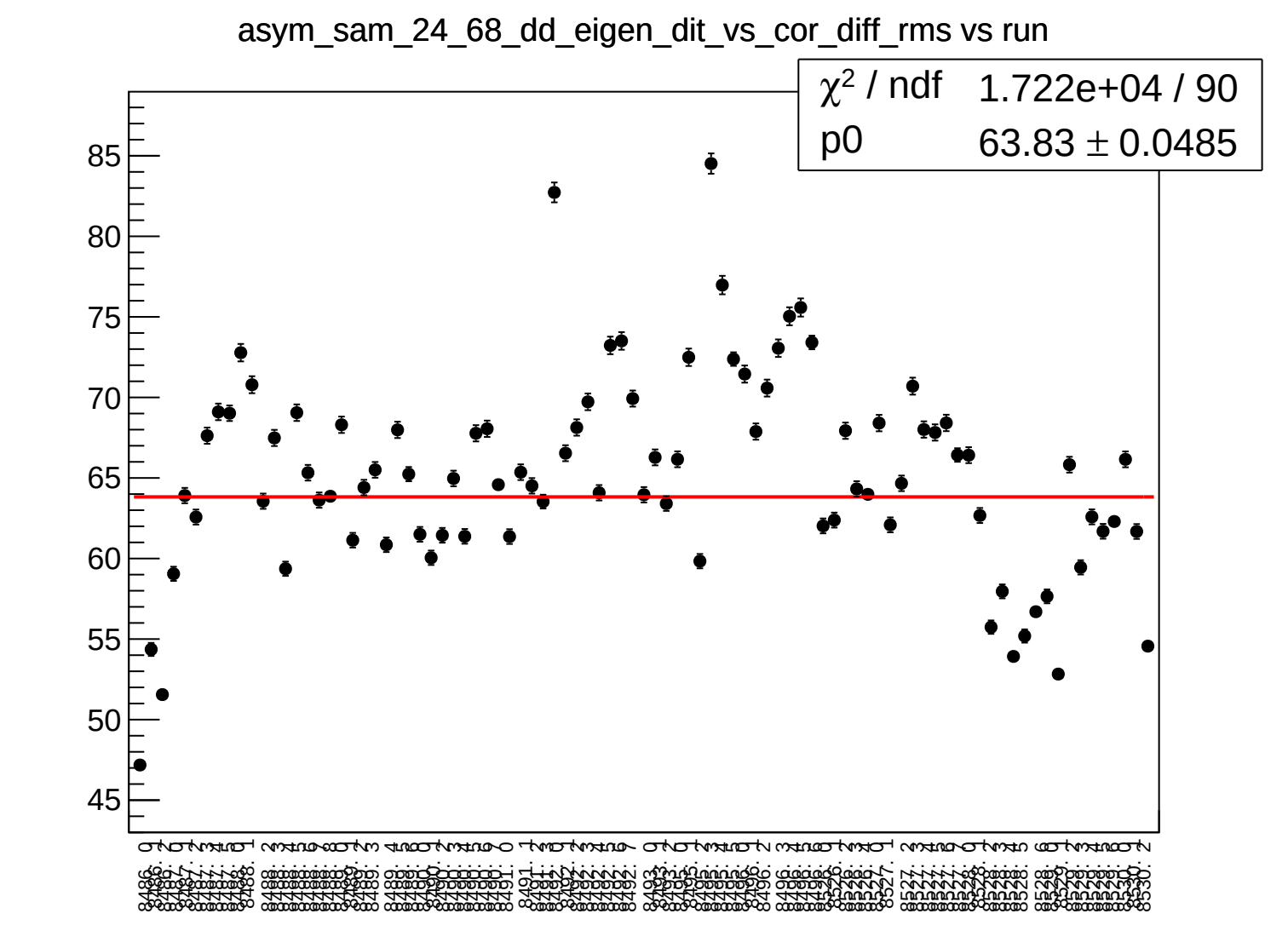

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.48 / 90
p0 −0.07772 ± 0.06859
pull
Entries 91
Mean 238.9
Std Dev 0
pull1D
Entries 91
Mean 0.01427
Std Dev 0.9462

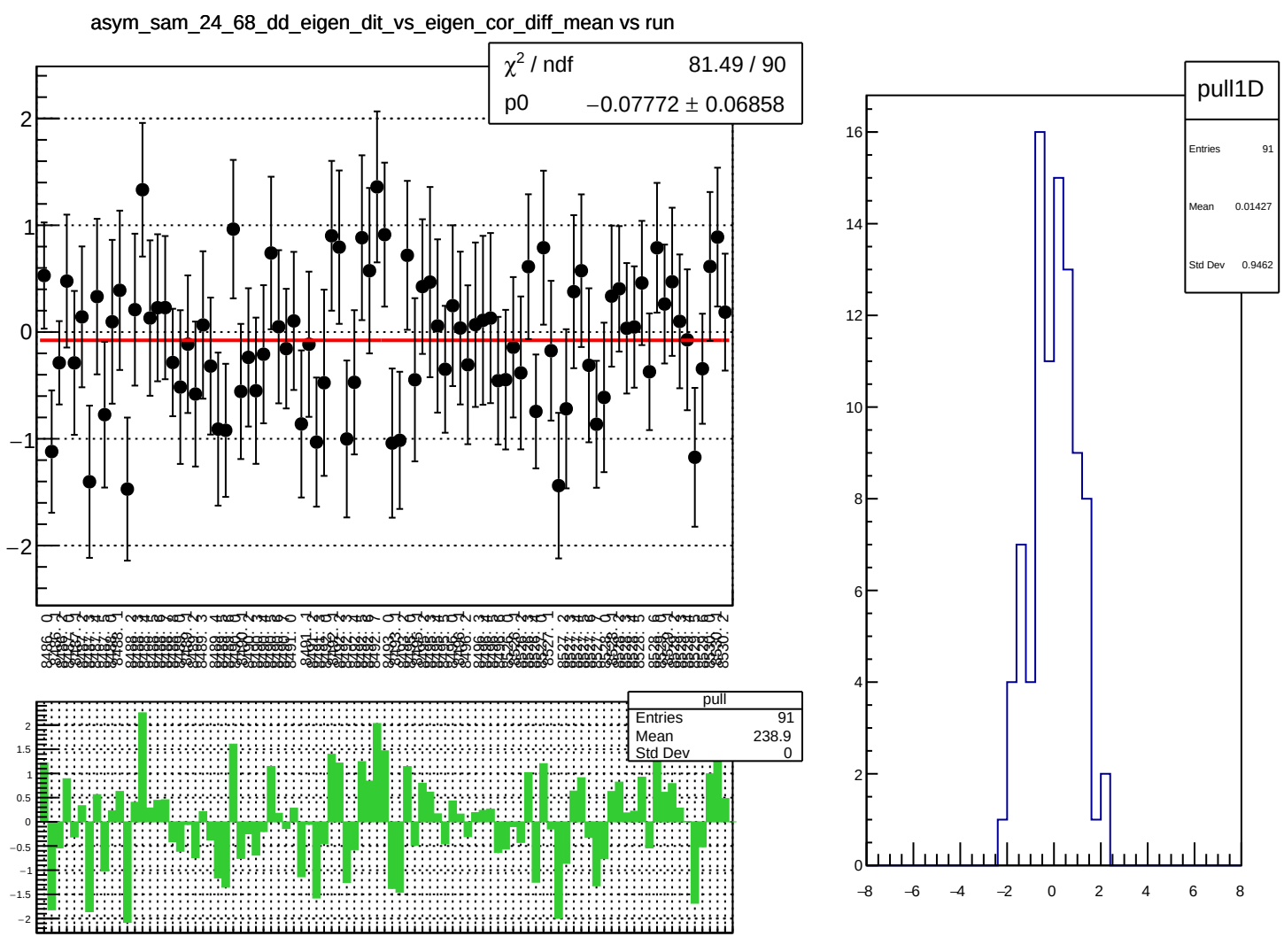

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.722e+04 / 90
p0 63.83 ± 0.0485
85
80
75
70
65
60
55
50
45

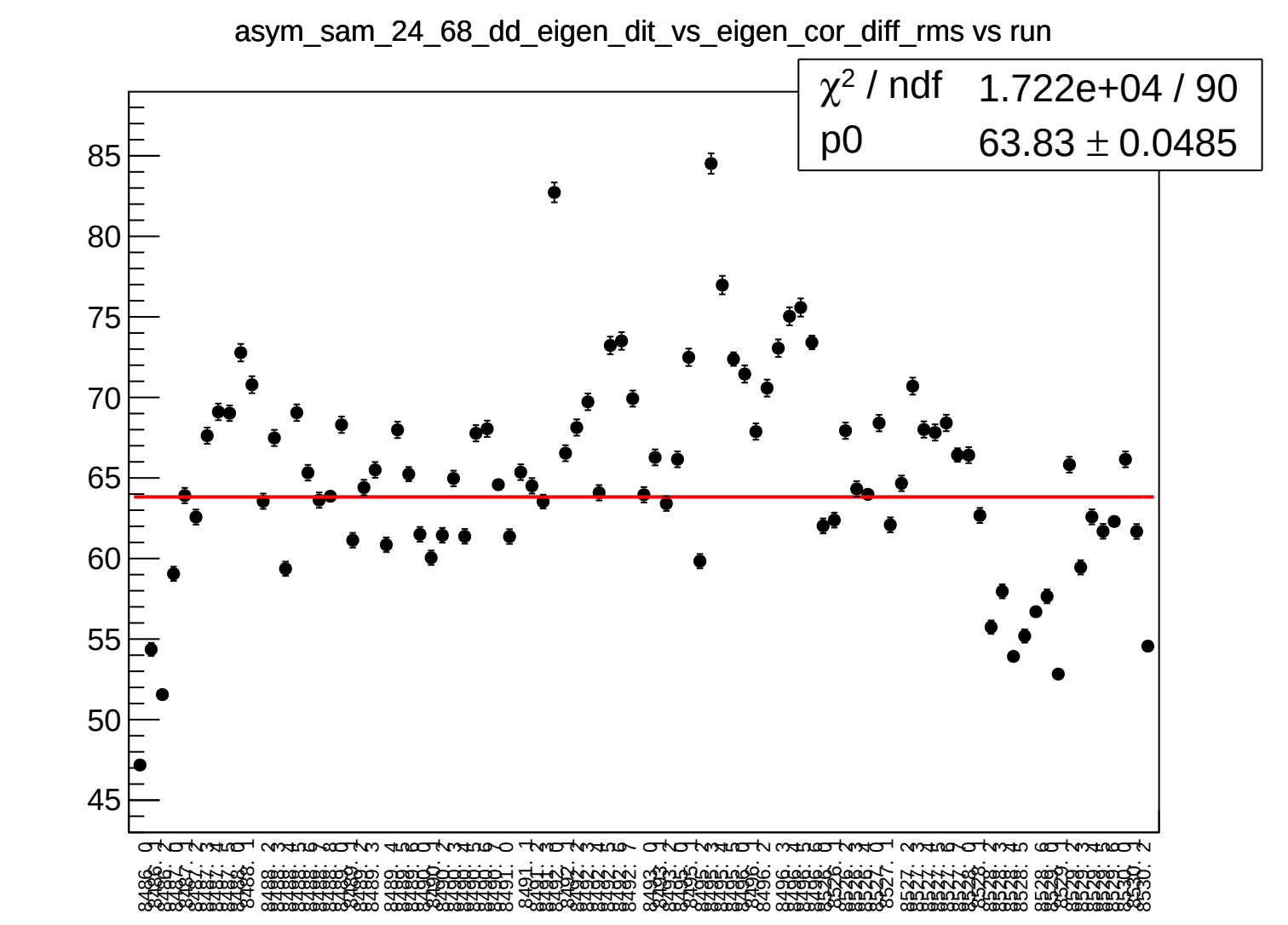

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.28 / 90
p0 2.628e−06 ± 1.052e−06
pull
Entries 91
Mean 160.8
Std Dev 0
pull1D
Entries 91
Mean 0.008503
Std Dev 0.9905

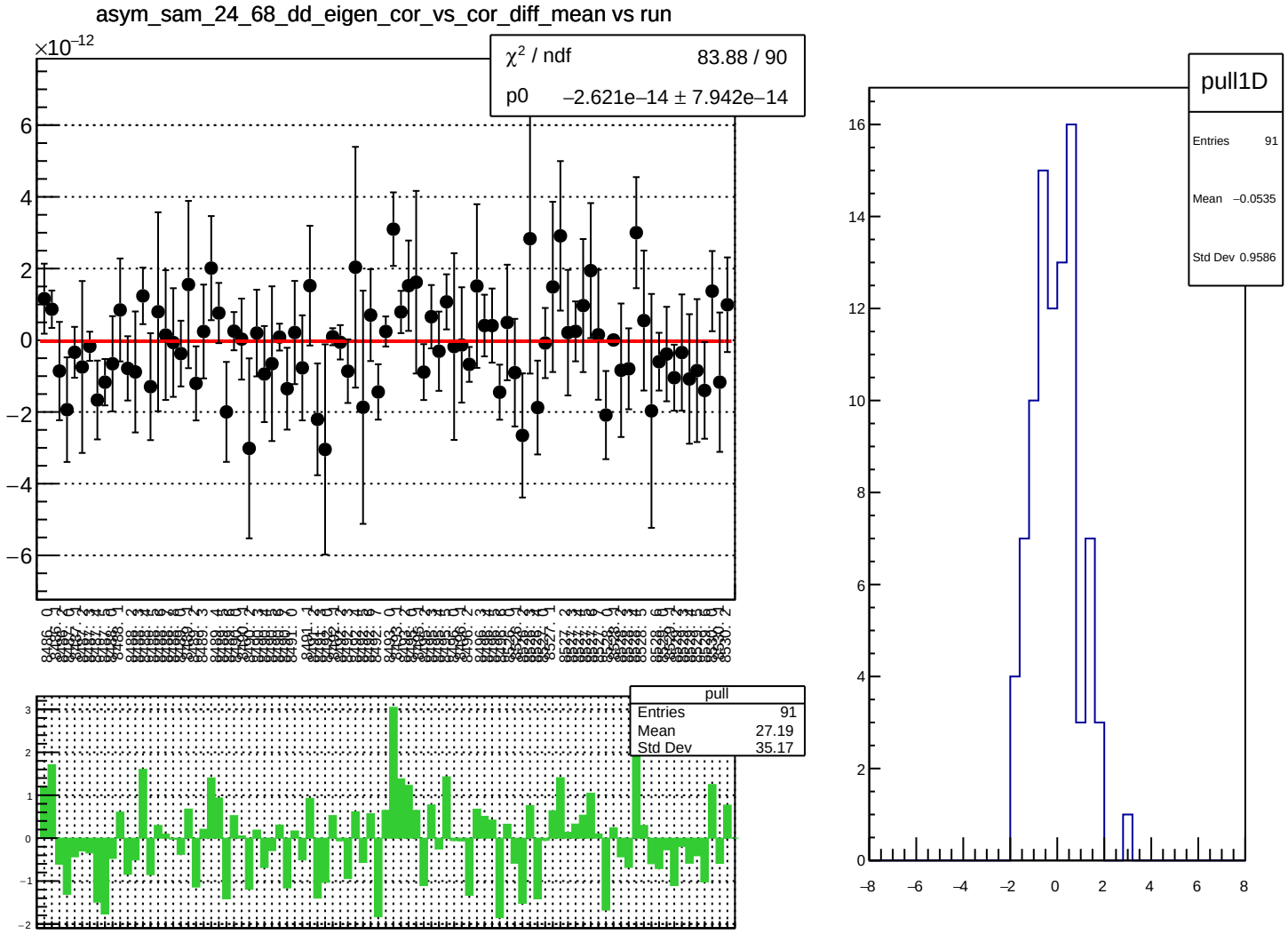

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.04e+05 / 90
p0 0.0008939 ± 7.436e−07
0.0035
0.003
0.0025
0.002
0.0015
0.001

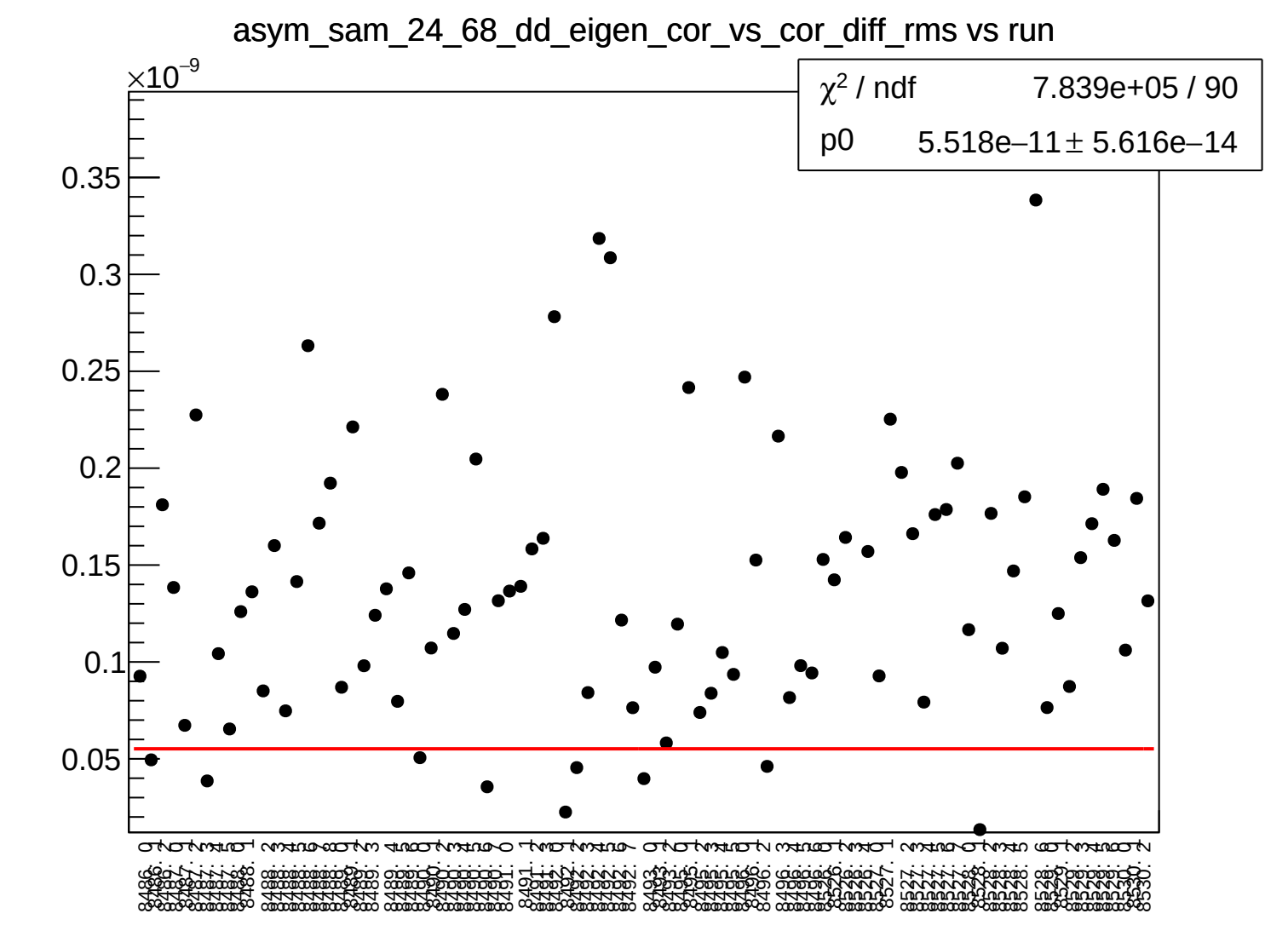

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.49 / 90
p0 −0.07772 ± 0.06858
pull
Entries 91
Mean 238.9
Std Dev 0
pull1D
Entries 91
Mean 0.01427
Std Dev 0.9462

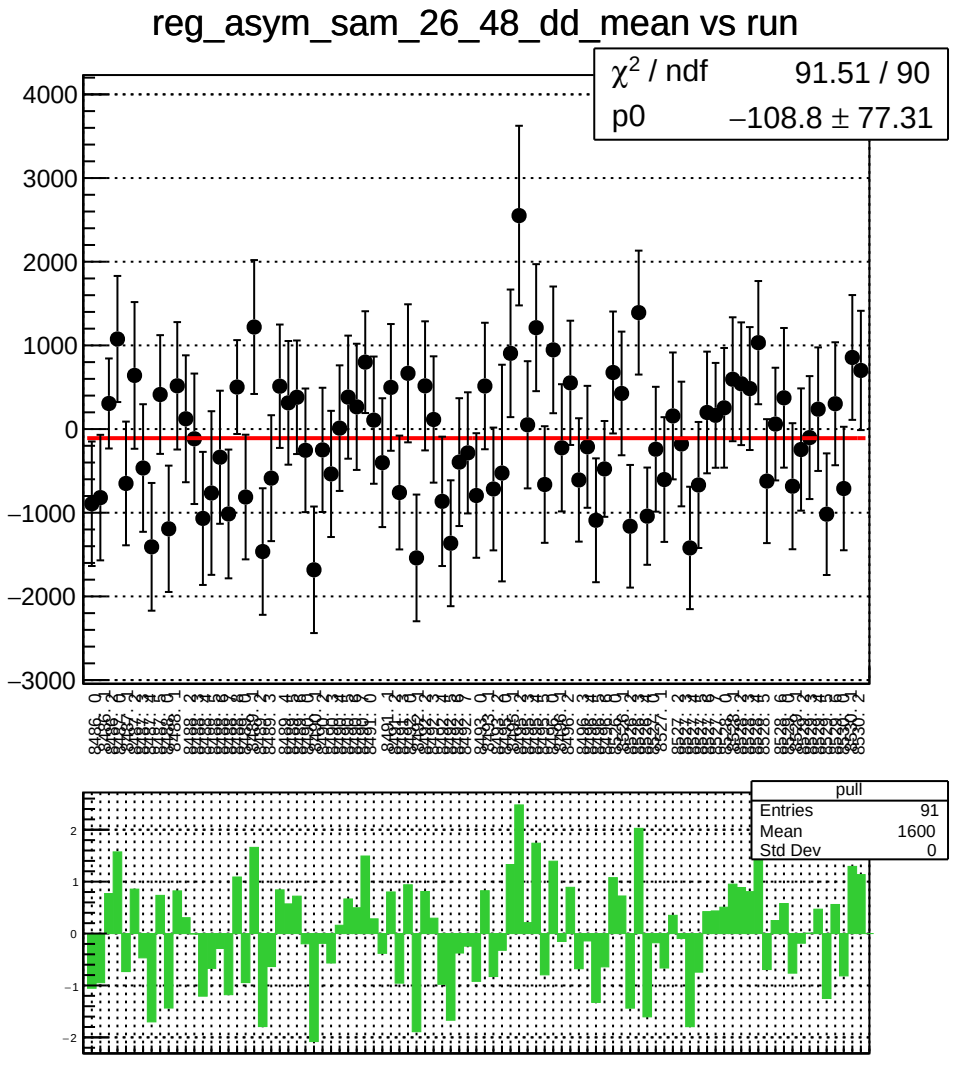

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.722e+04 / 90
p0 63.83 ± 0.0485
85
80
75
70
65
60
55
50
45

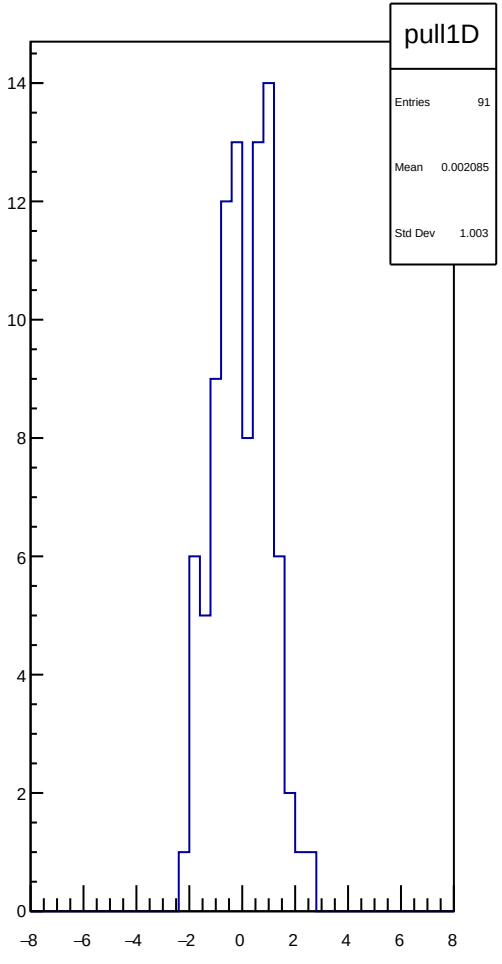

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.49 / 90
p0 −0.07772 ± 0.06858
pull
Entries 91
Mean 238.9
Std Dev 0
pull1D
Entries 91
Mean 0.01427
Std Dev 0.9462

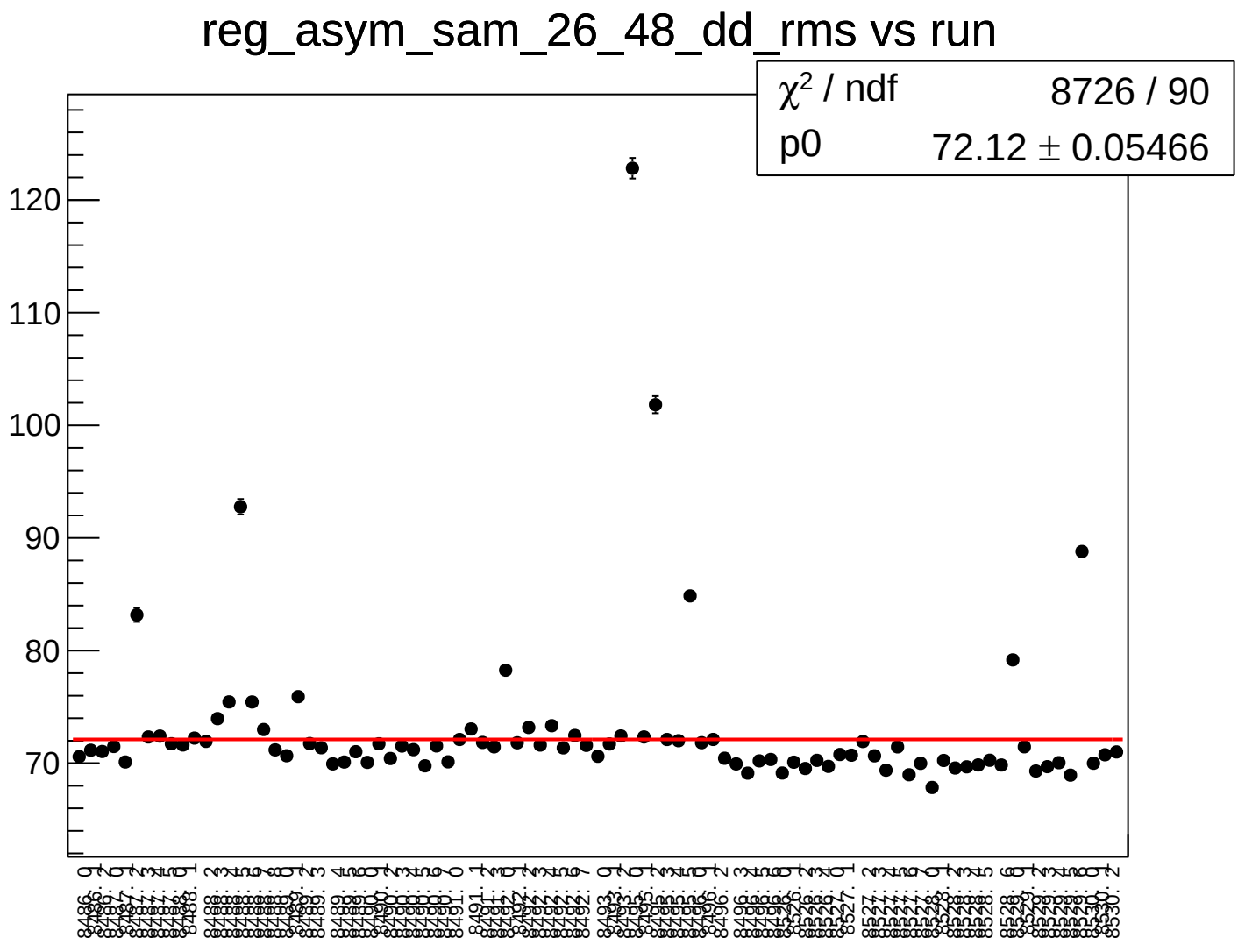

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.722e+04 / 90
p0 63.83 ± 0.0485
85
80
75
70
65
60
55
50
45

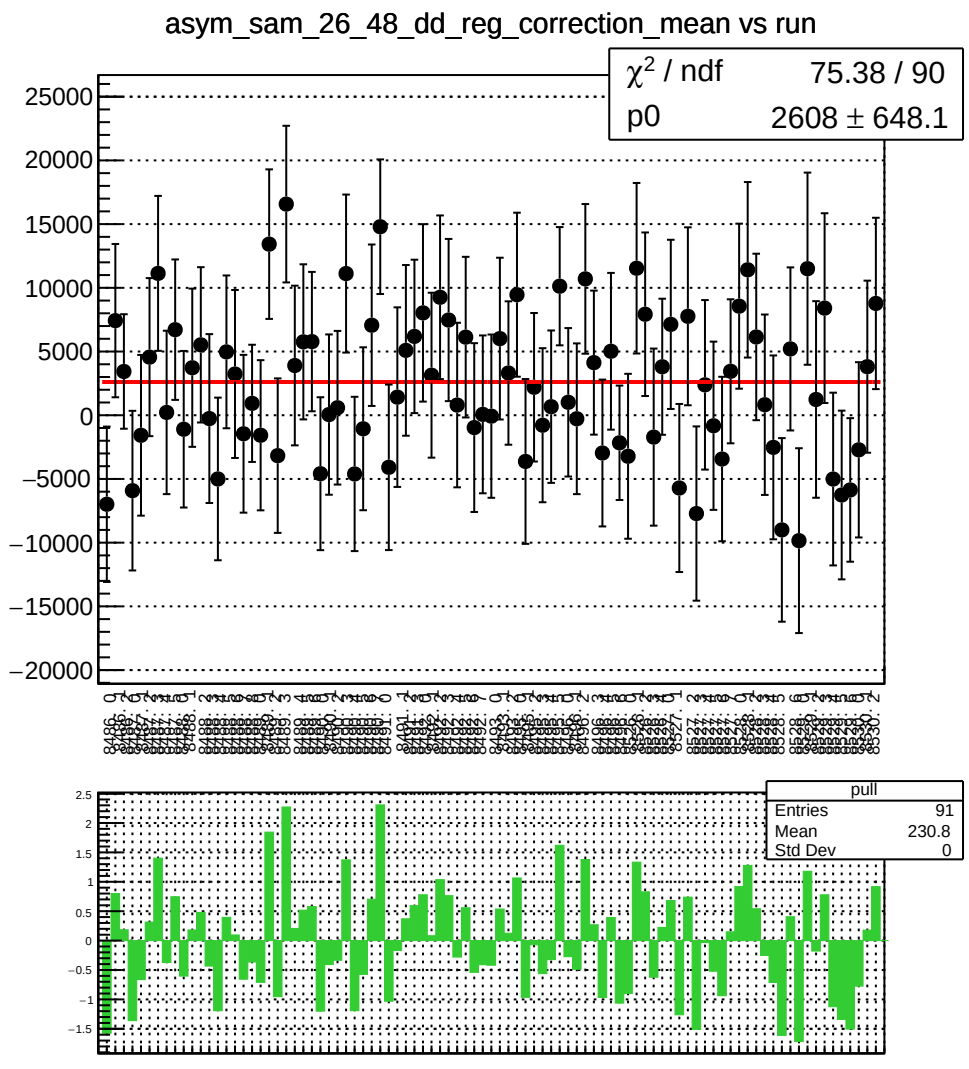

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.88 / 90
p0 −2.621e−14 ± 7.942e−14
pull
Entries 91
Mean 27.19
Std Dev 35.17
pull1D
Entries 91
Mean −0.0535
Std Dev 0.9586

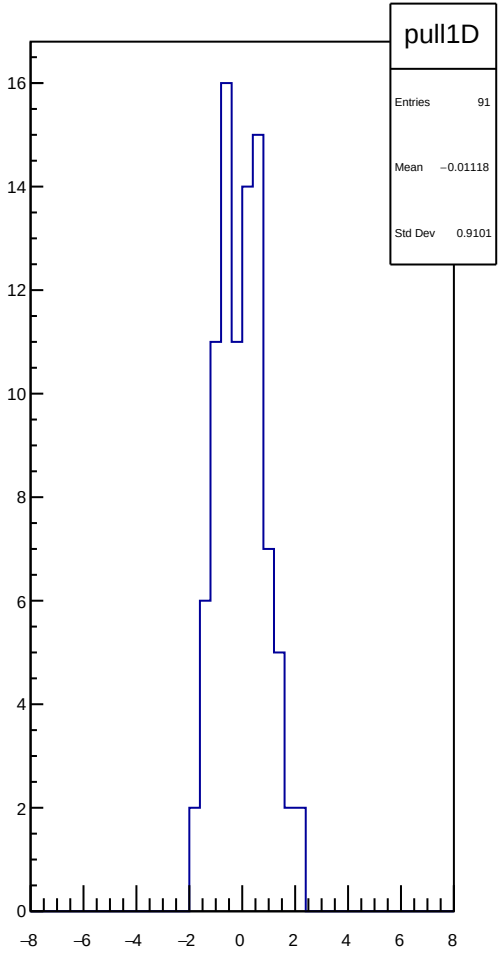

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.839e+05 / 90
p0 5.518e−11 ± 5.616e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

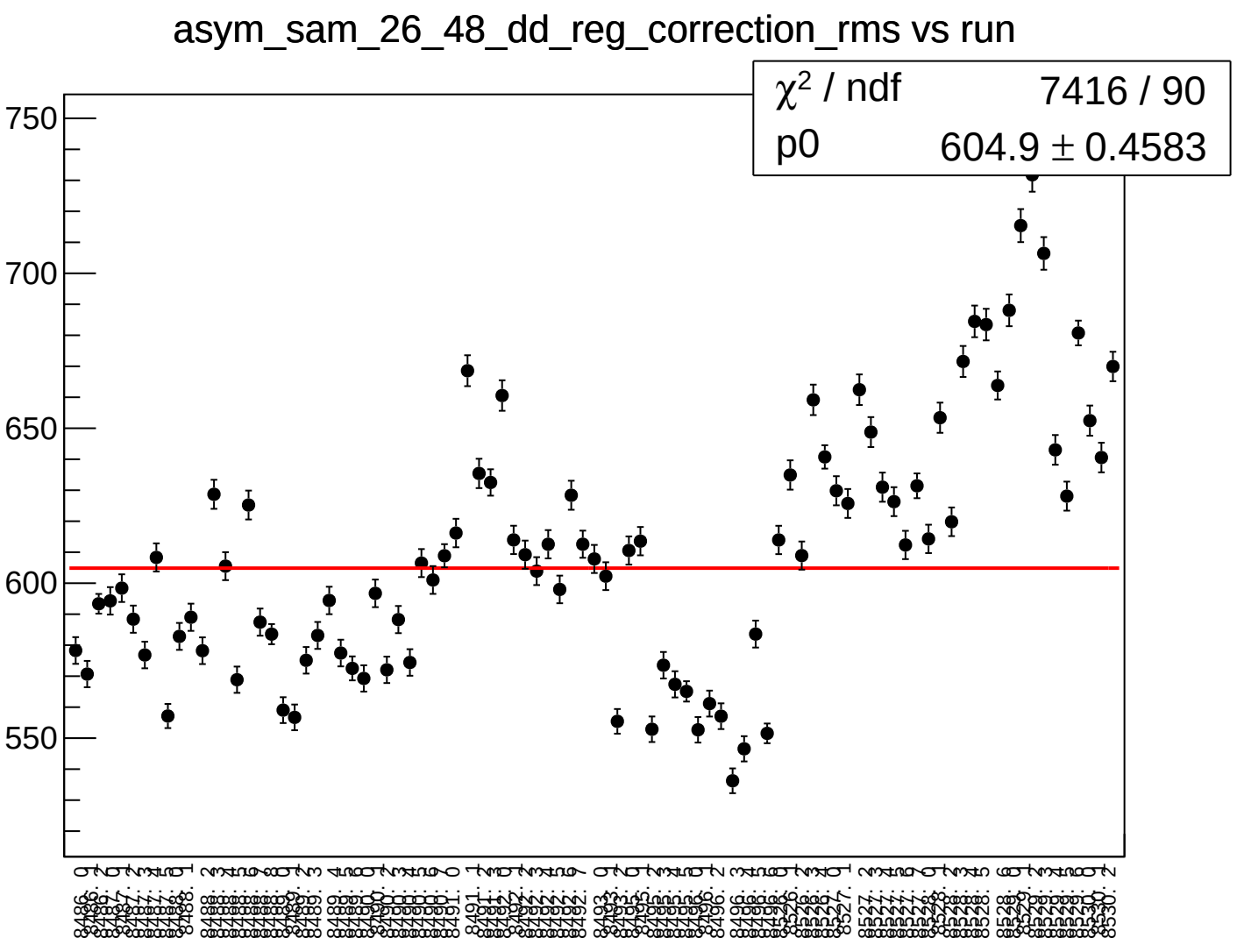

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 91.51 / 90
p0 −108.8 ± 77.31
pull
Entries 91
Mean 1600
Std Dev 0

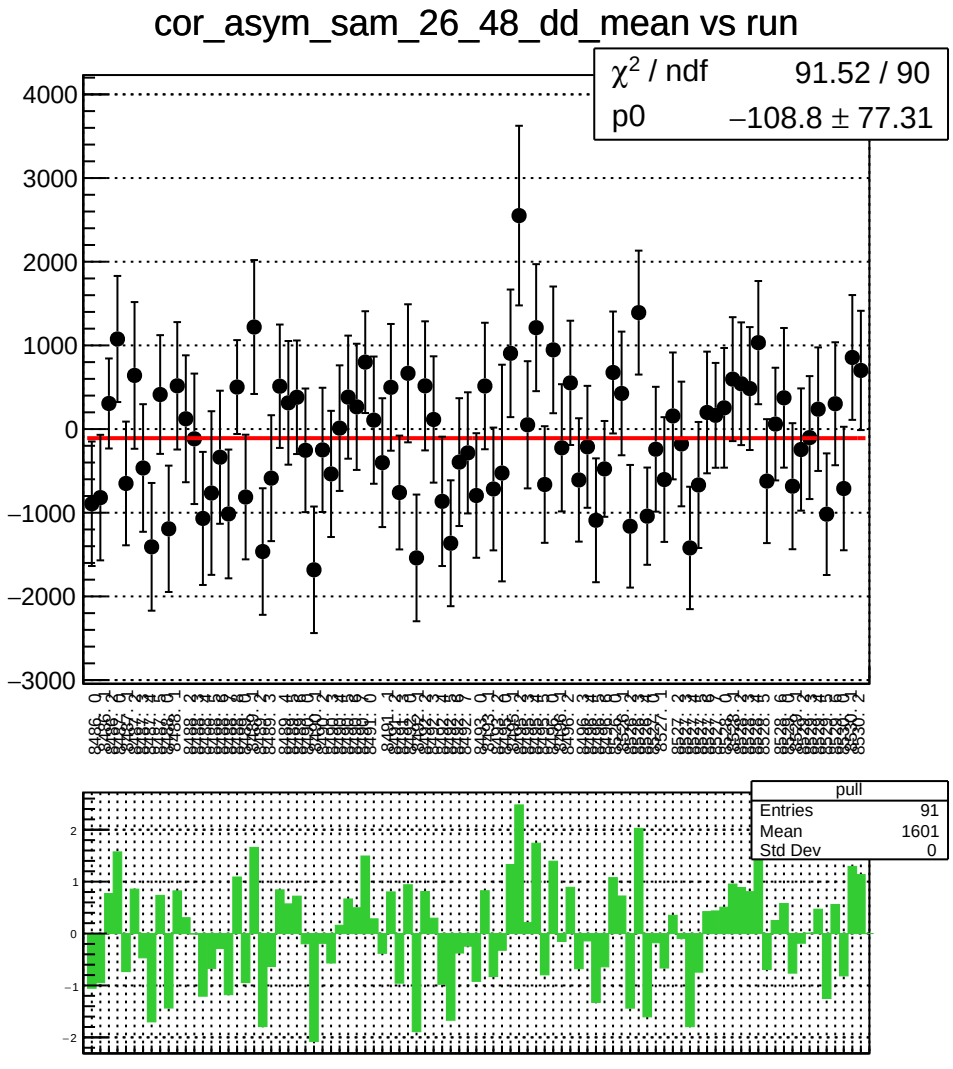

pull1D
Entries 91
Mean 0.002085
Std Dev 1.003

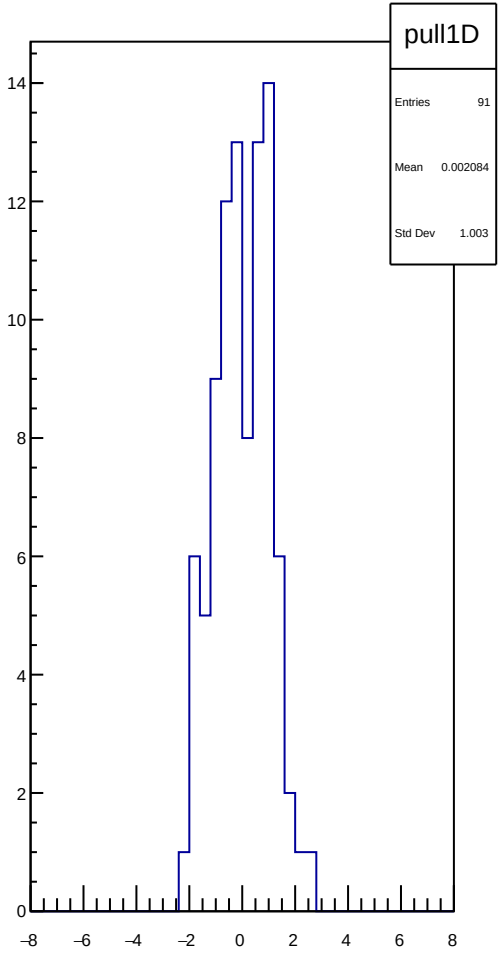

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 8726 / 90
p0 72.12 ± 0.05466
120
110
100
90
80
70

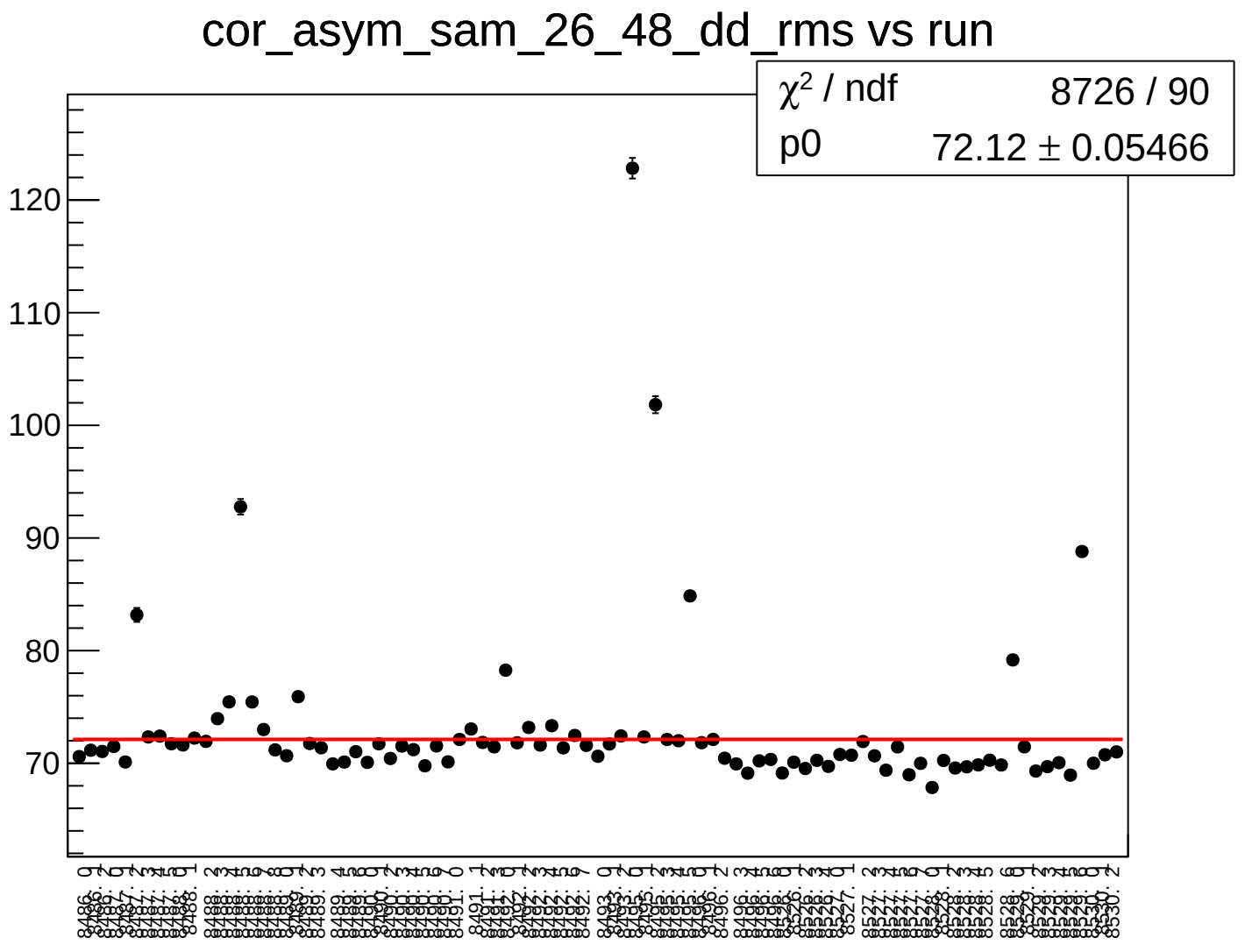

asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 75.38 / 90
p0 2608 ± 648.1
pull
Entries 91
Mean 230.8
Std Dev 0

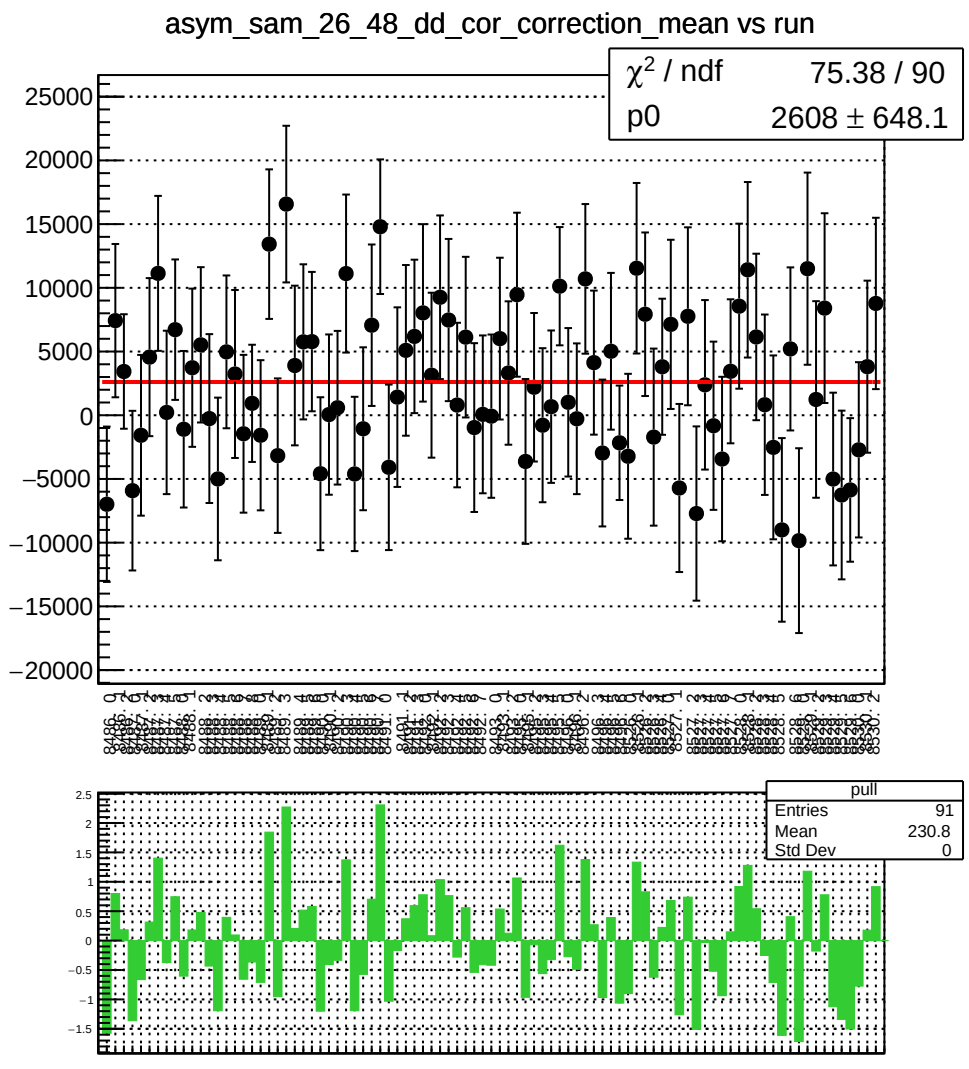

pull1D
Entries 91
Mean −0.01118
Std Dev 0.9101

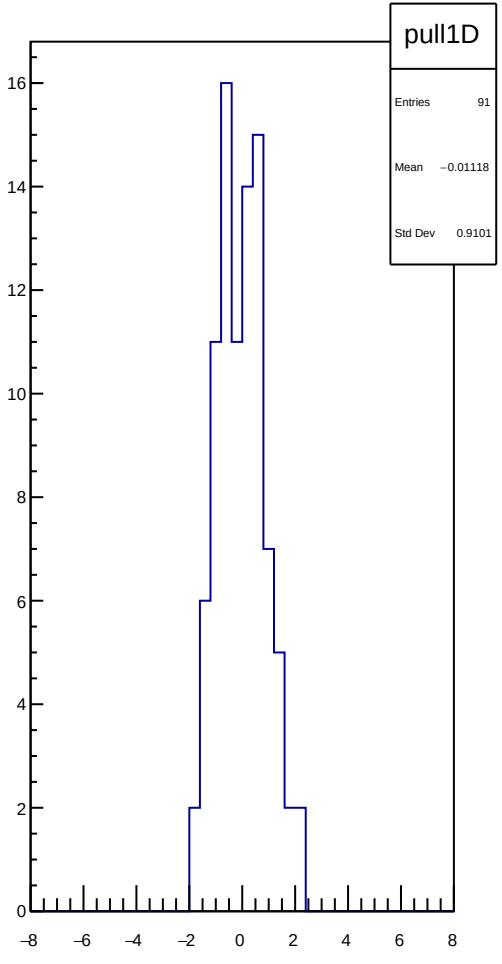

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 7416 / 90
p0 604.9 ± 0.4583
750
700
650
600
550

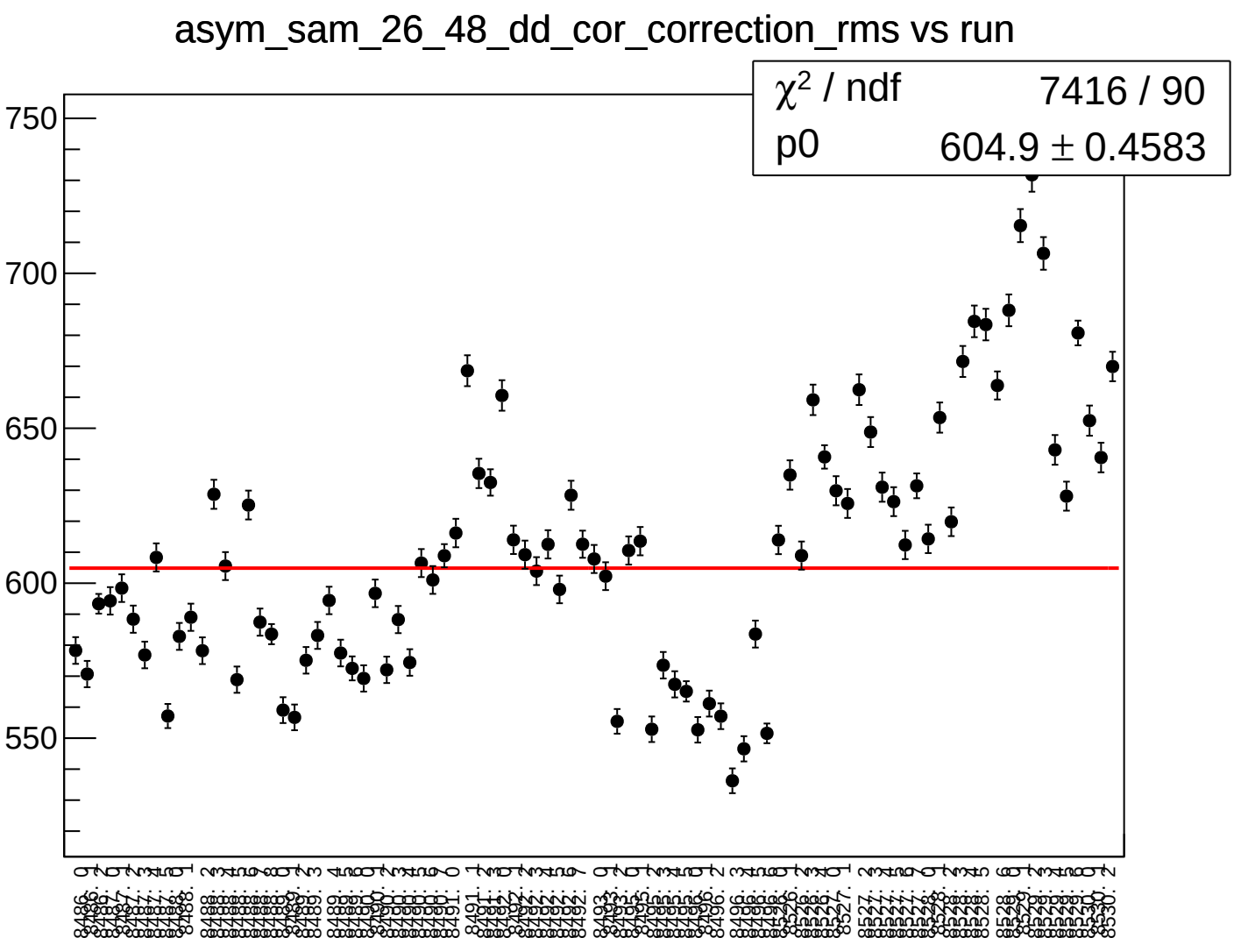

cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 91.52 / 90
p0 −108.8 ± 77.31
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 91
Mean 1601
Std Dev 0
2
1
0
−1
−2

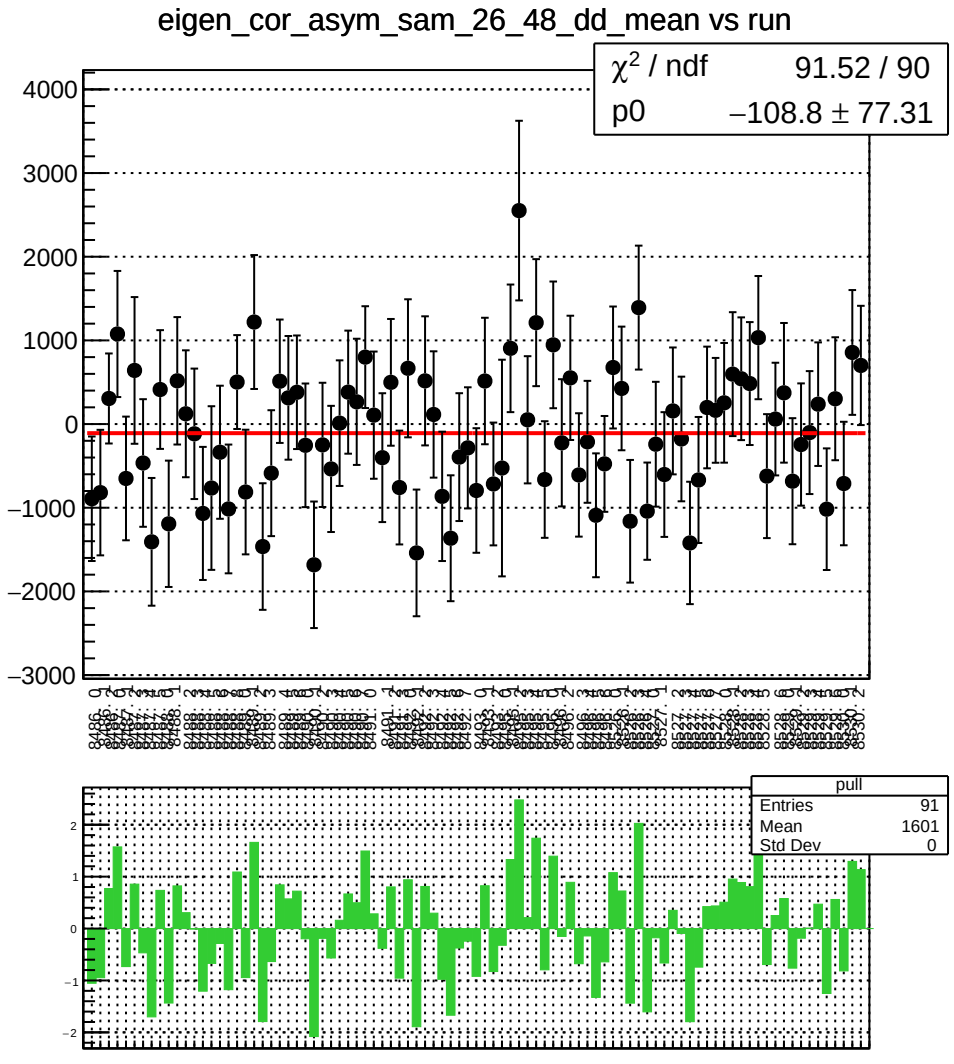

pull1D
Entries 91
Mean 0.002084
Std Dev 1.003
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

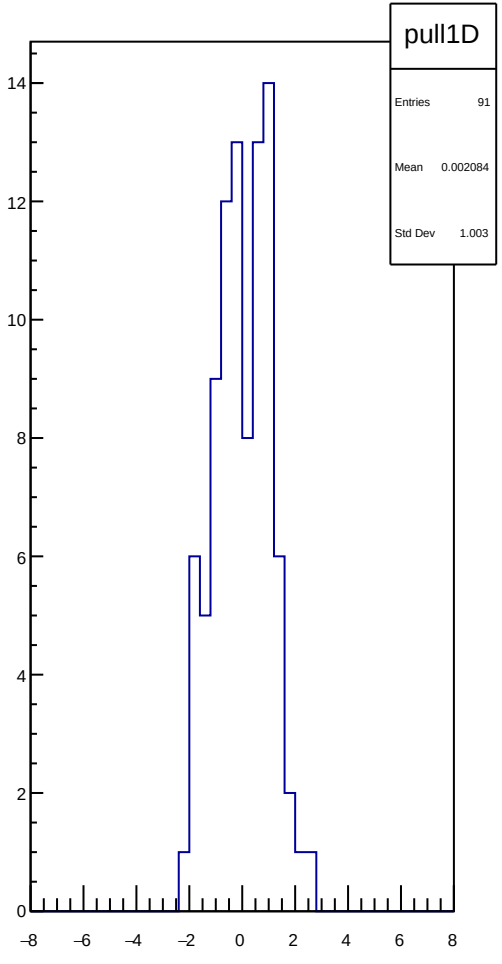

cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 8726 / 90
p0 72.12 ± 0.05466
120
110
100
90
80
70

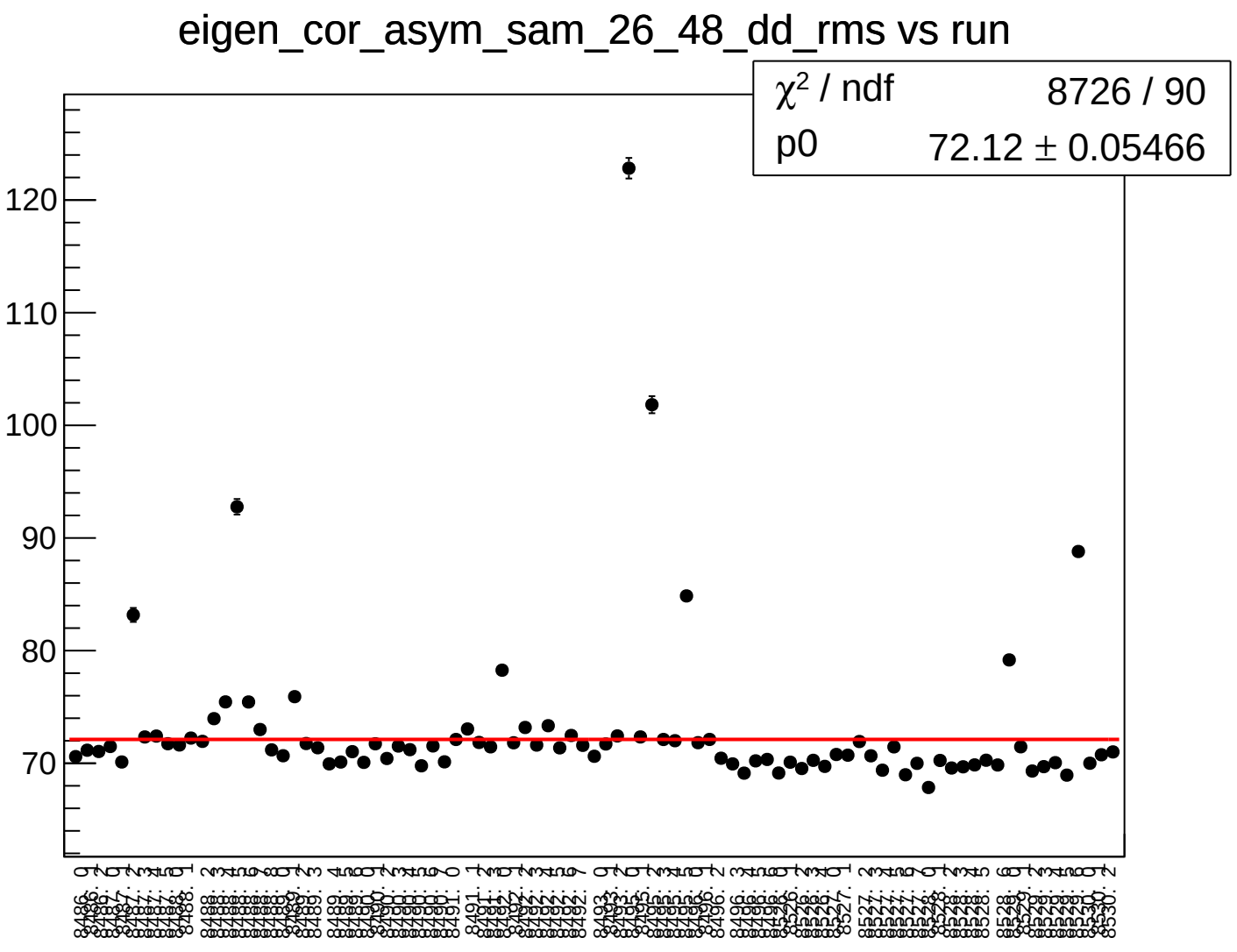

asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 75.38 / 90
p0 2608 ± 648.1
pull
Entries 91
Mean 230.8
Std Dev 0

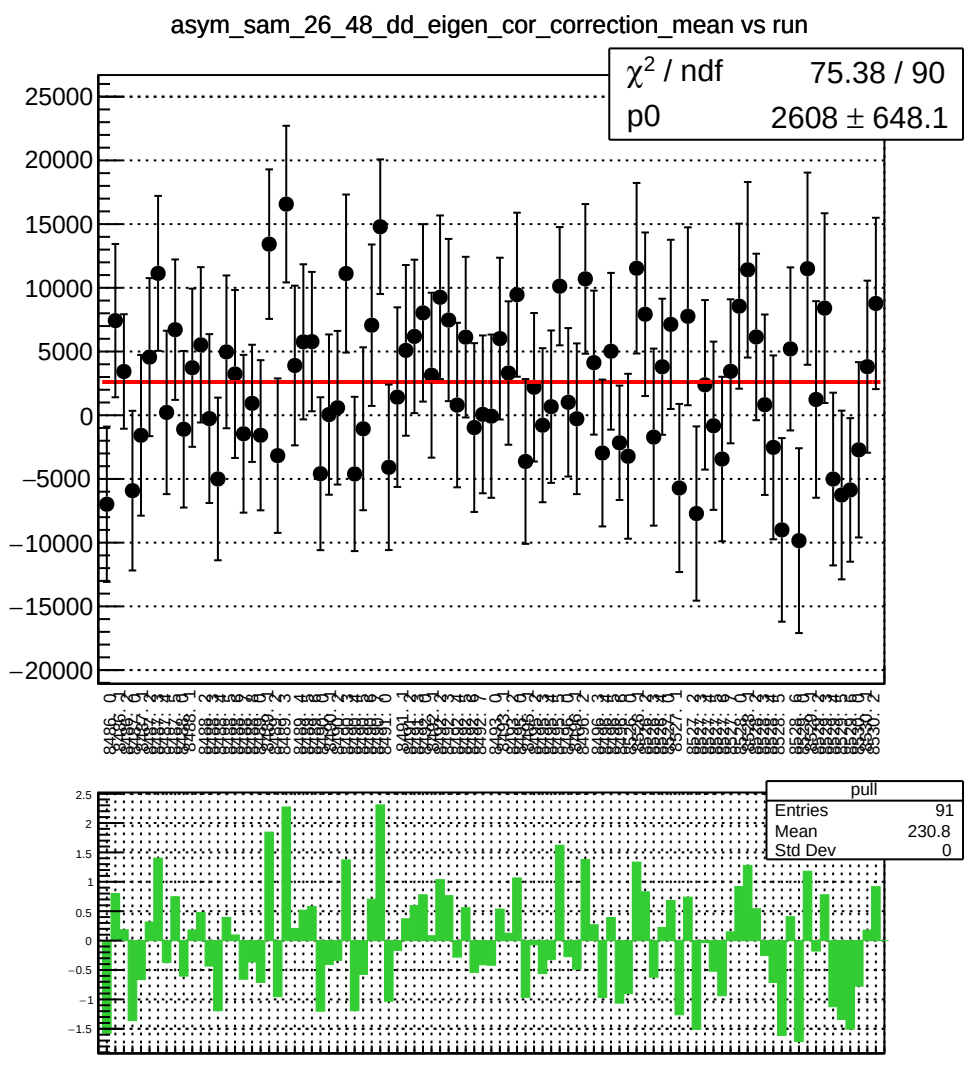

pull1D
Entries 91
Mean −0.01118
Std Dev 0.9101

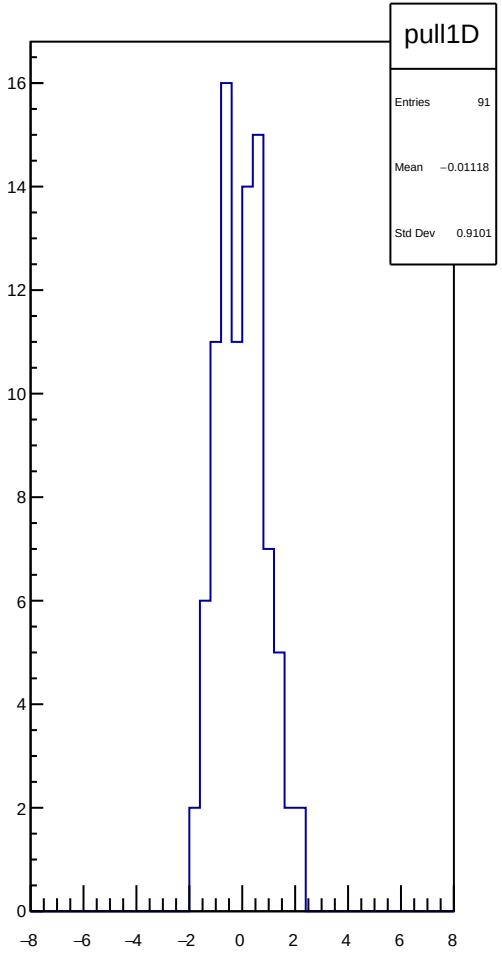

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 7416 / 90
p0 604.9 ± 0.4583
750
700
650
600
550

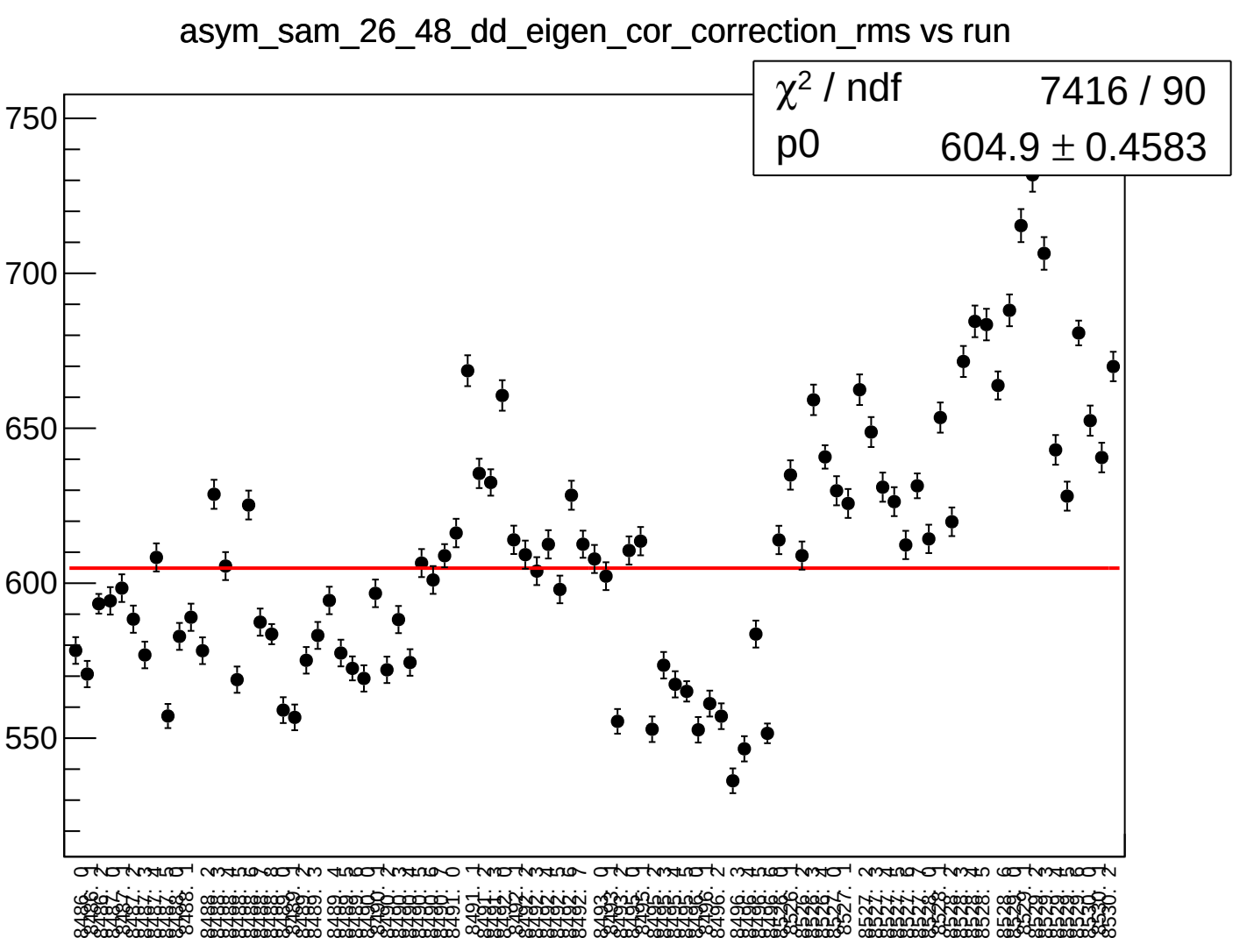

eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 91.52 / 90
p0 −108.8 ± 77.31
pull
Entries 91
Mean 1601
Std Dev 0

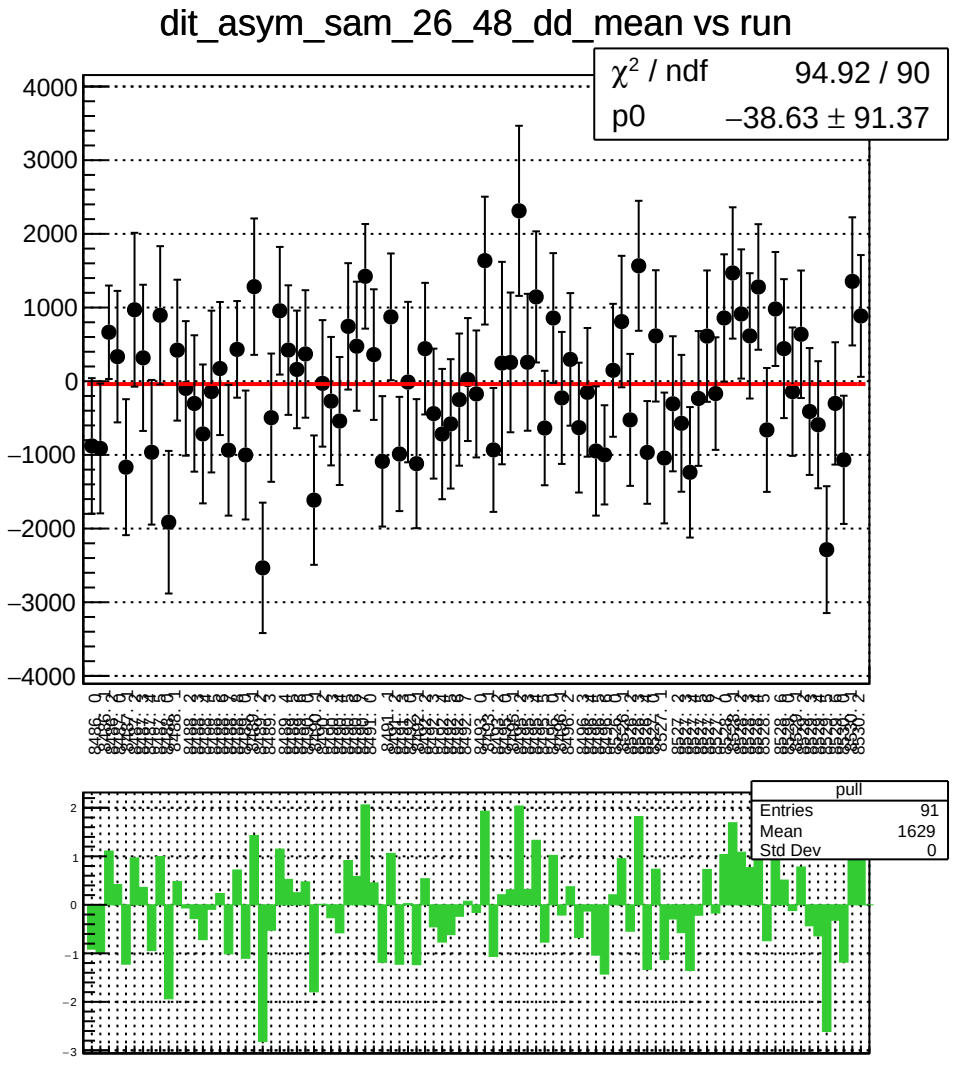

pull1D
Entries 91
Mean 0.002084
Std Dev 1.003

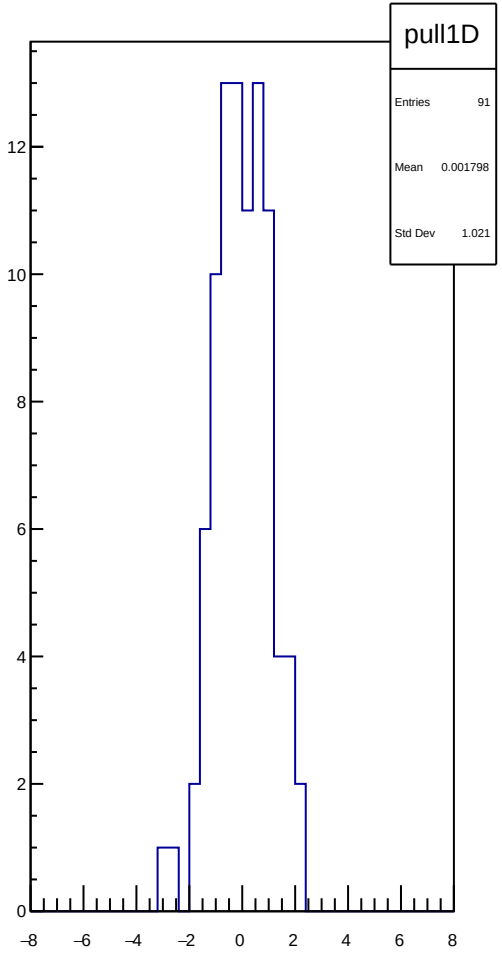

eigen_cor_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 8726 / 90
p0 72.12 ± 0.05466
120
110
100
90
80
70

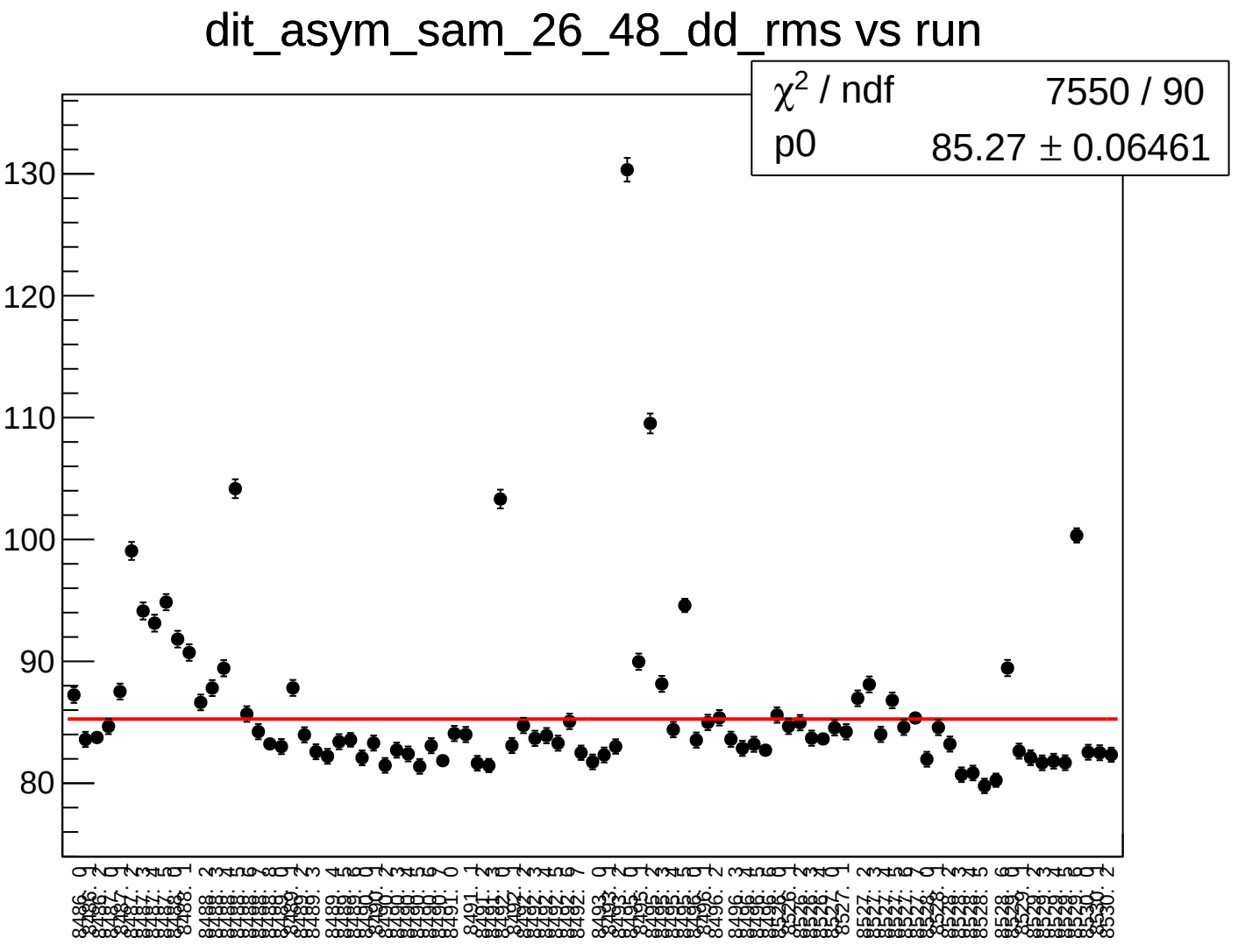

asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 75.38 / 90
p0 2608 ± 648.1
pull
Entries 91
Mean 230.8
Std Dev 0

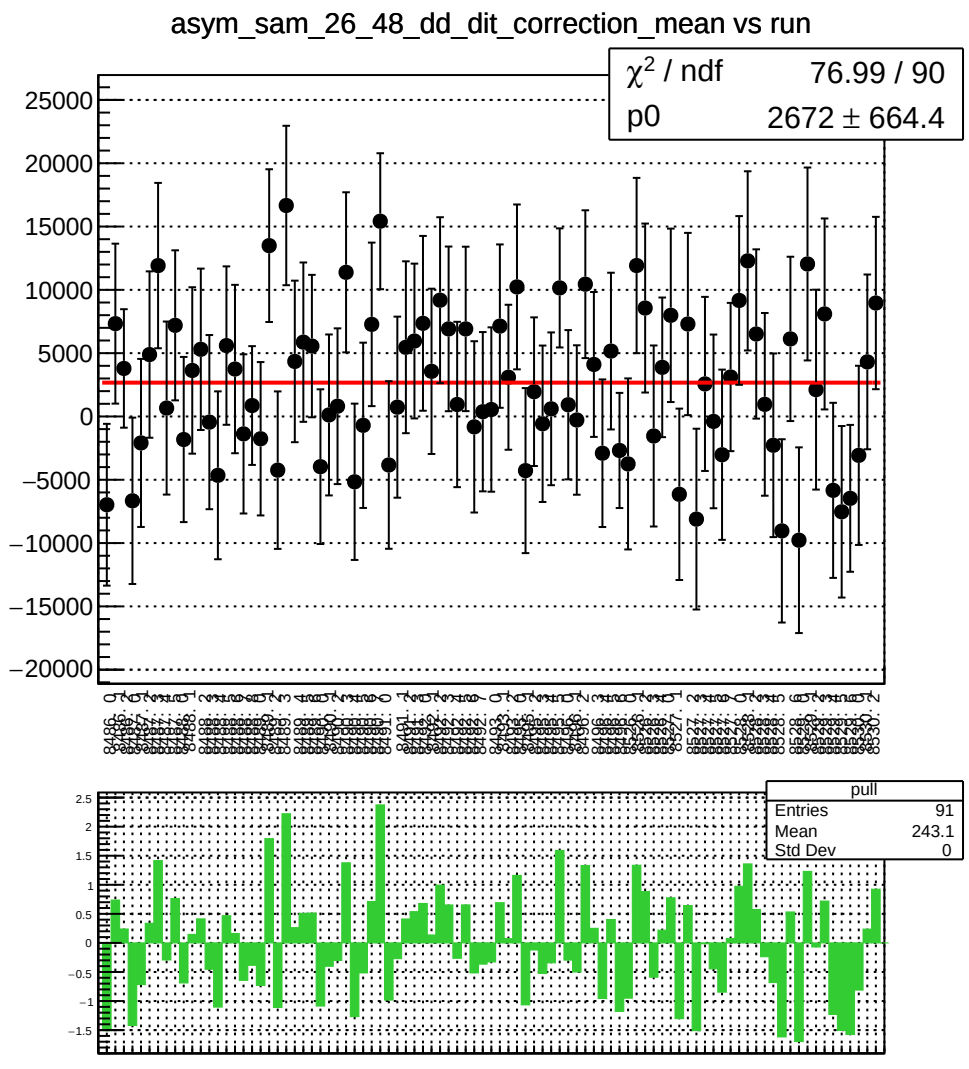

pull1D
Entries 91
Mean −0.01118
Std Dev 0.9101

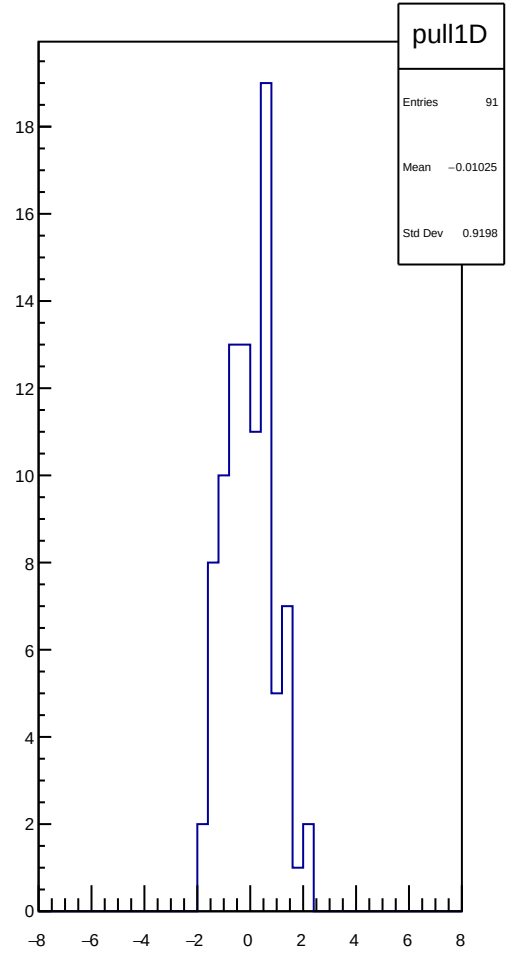

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 7416 / 90
p0 604.9 ± 0.4583
750
700
650
600
550

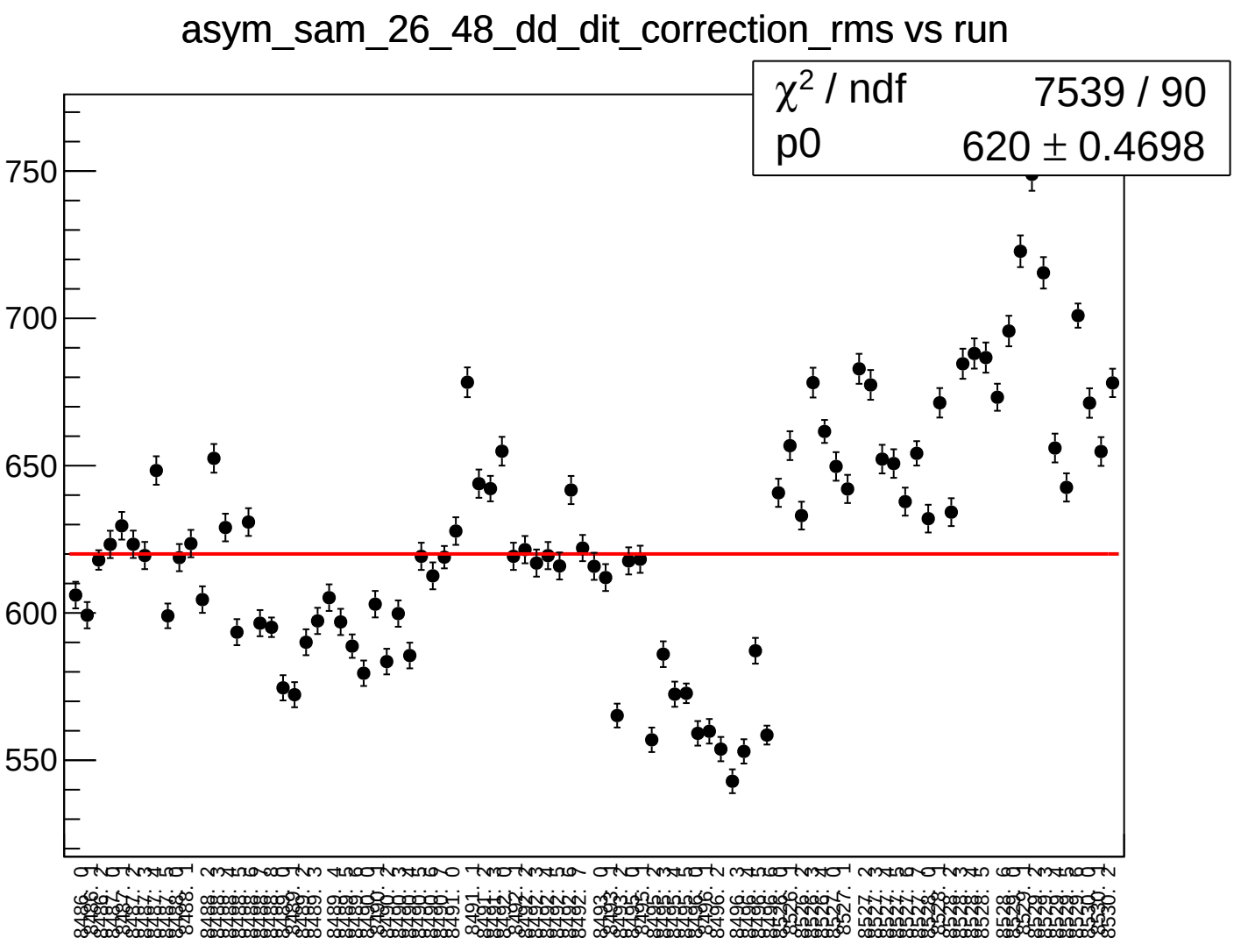

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 94.92 / 90
p0 −38.63 ± 91.37
pull
Entries 91
Mean 1629
Std Dev 0

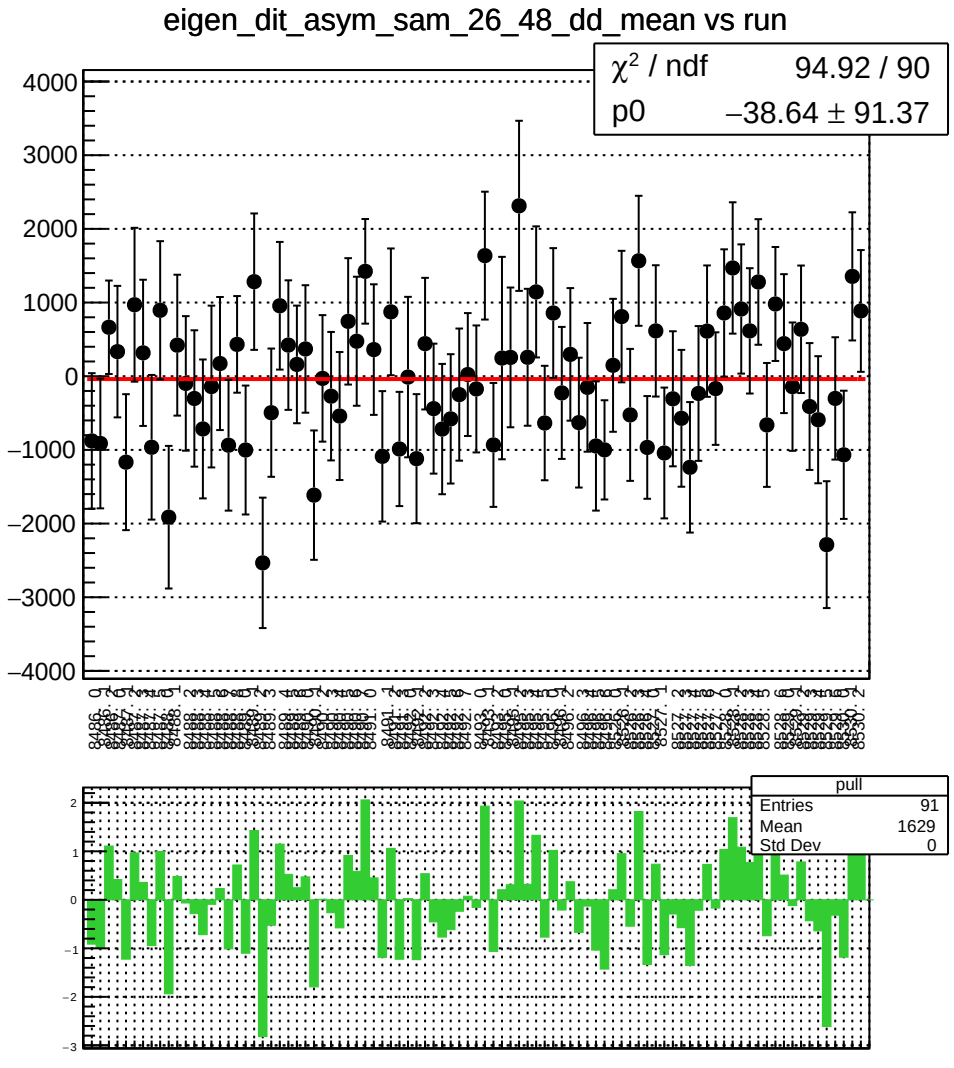

pull1D
Entries 91
Mean 0.001798
Std Dev 1.021

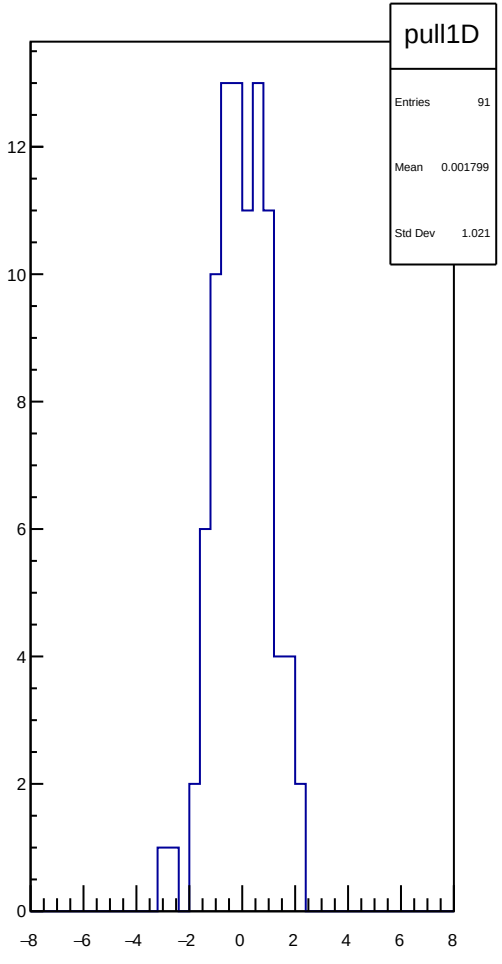

dit_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 7550 / 90
p0 85.27 ± 0.06461
130
120
110
100
90
80

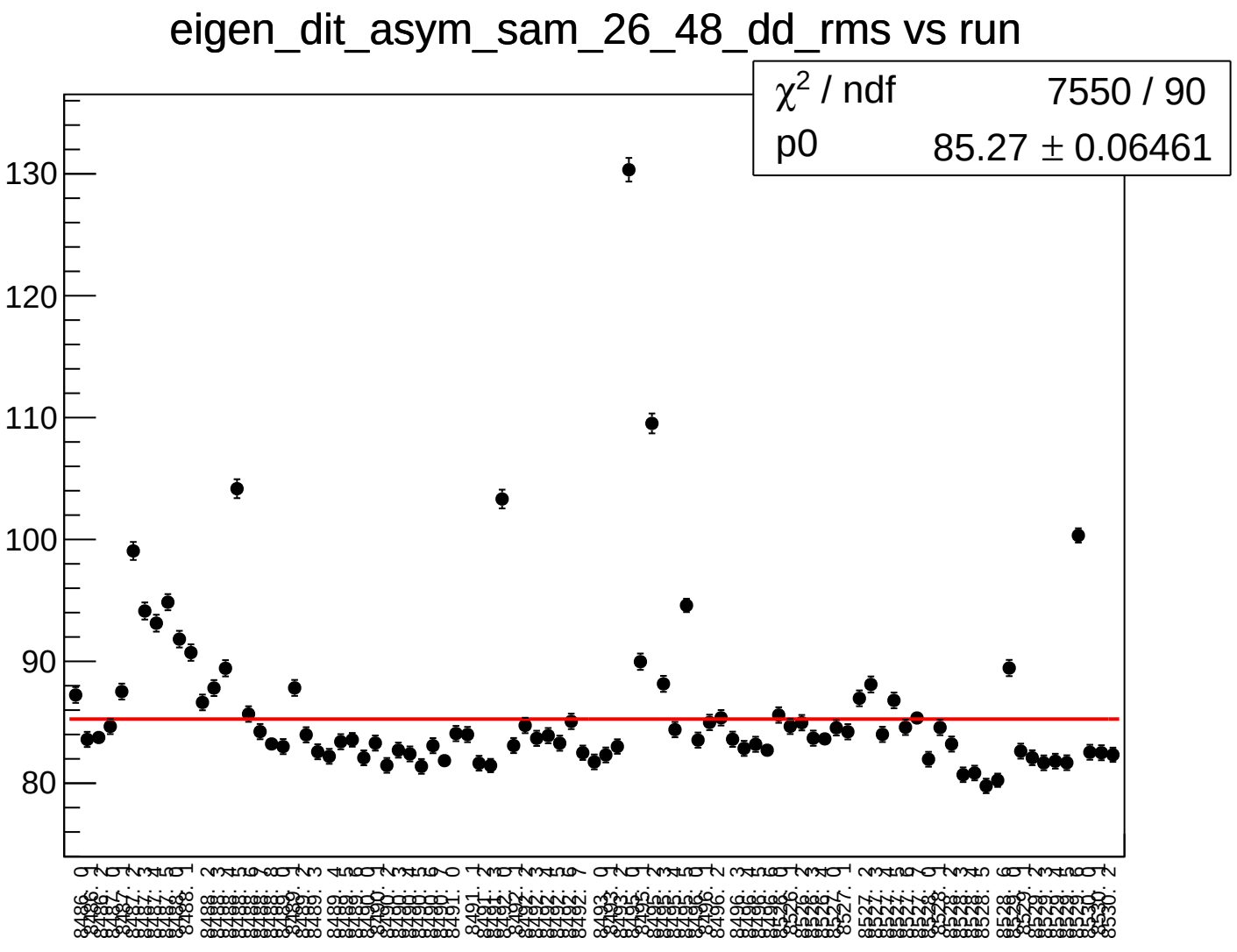

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 76.99 / 90
p0 2672 ± 664.4
pull
Entries 91
Mean 243.1
Std Dev 0

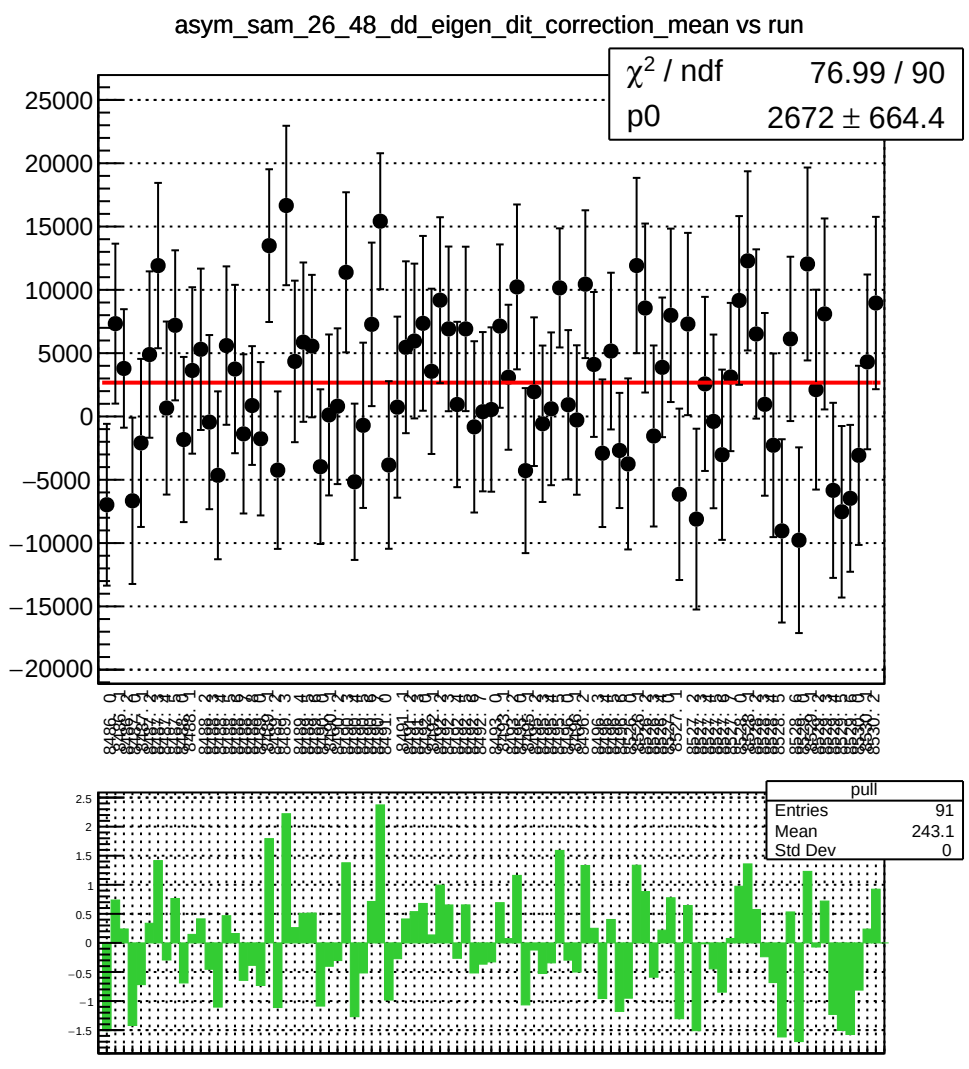

pull1D
Entries 91
Mean −0.01025
Std Dev 0.9198

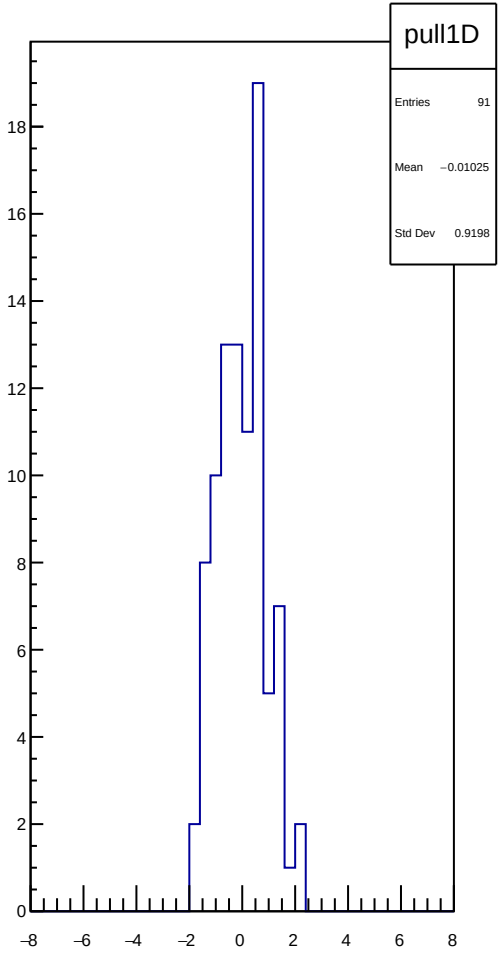

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 7539 / 90
p0 620 ± 0.4698
750
700
650
600
550

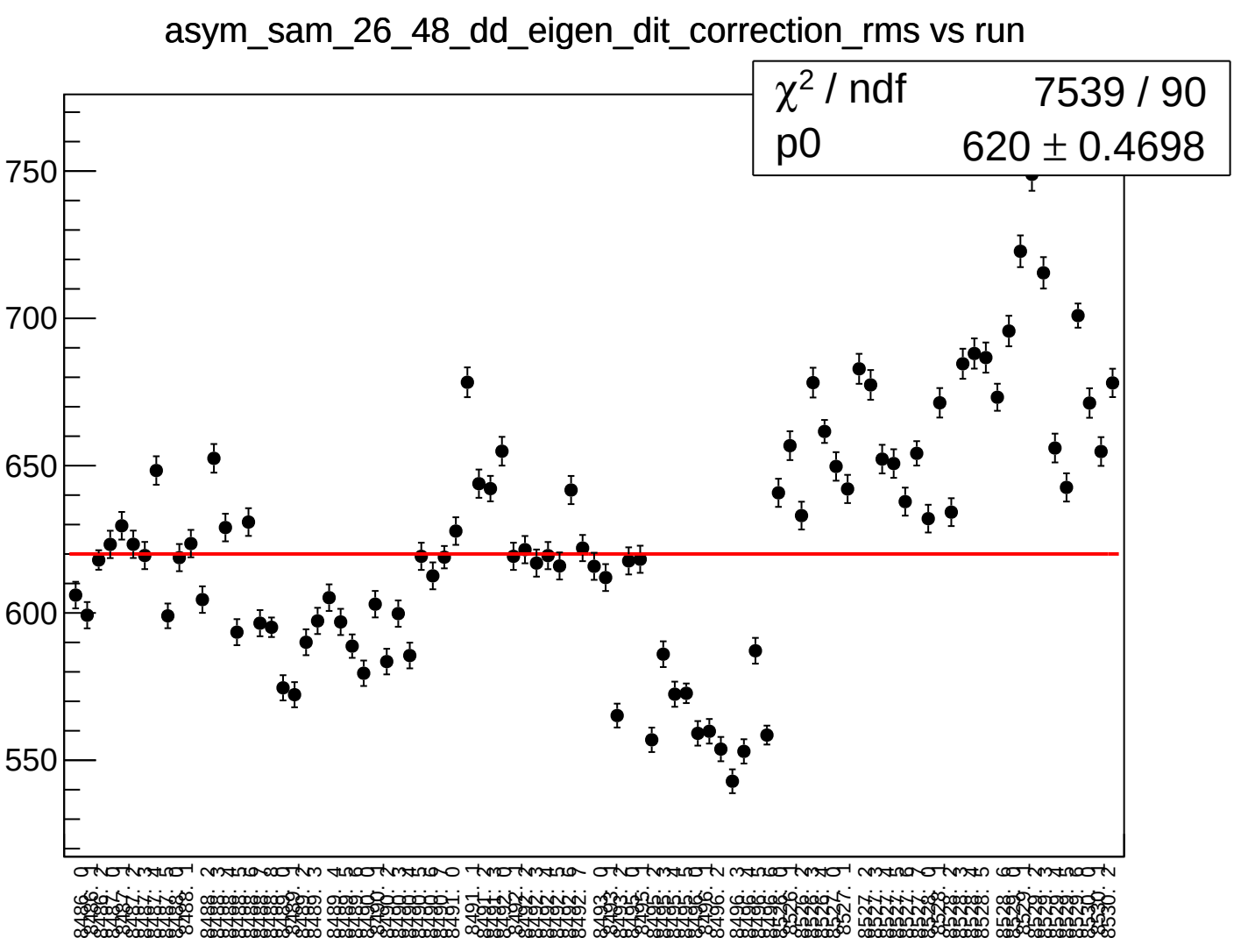

eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 94.92 / 90
p0 −38.64 ± 91.37
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 91
Mean 1629
Std Dev 0
2
1
0
−1
−2
−3

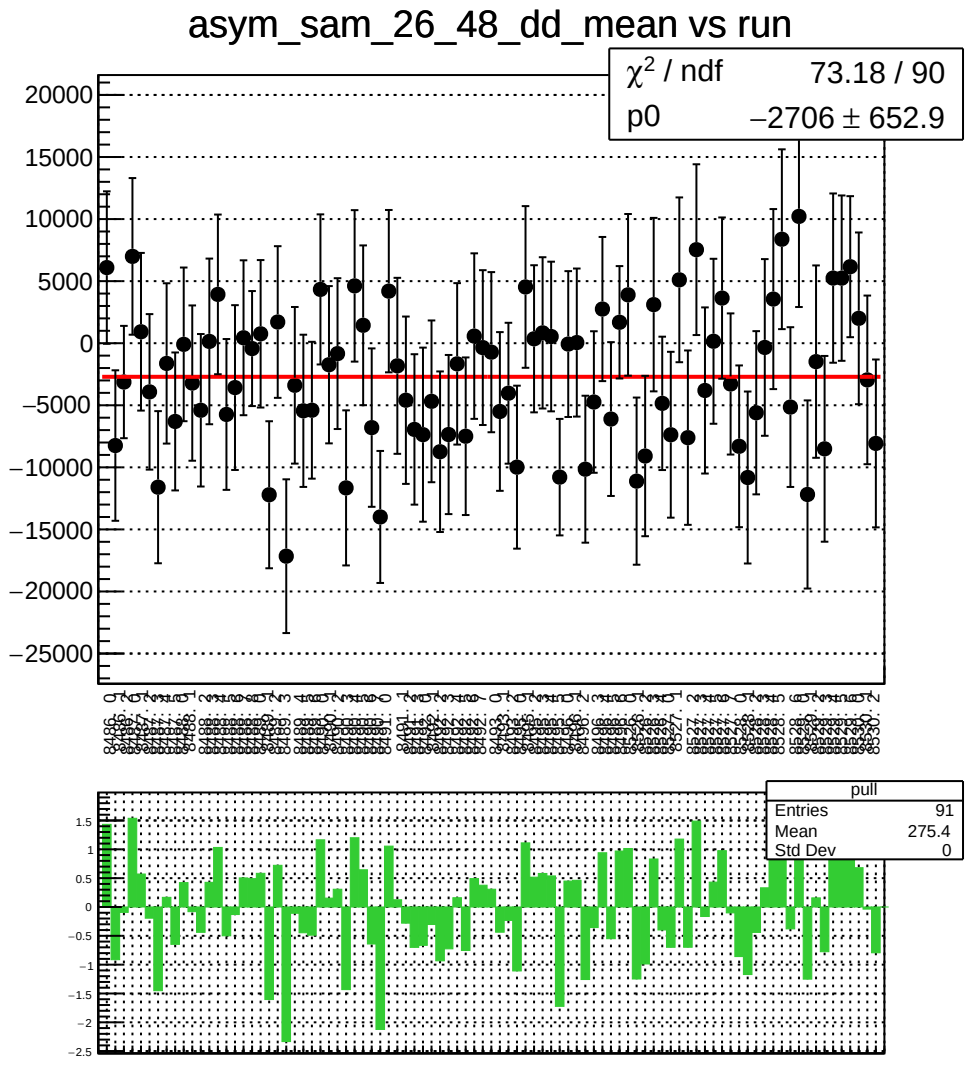

pull1D
Entries 91
Mean 0.001799
Std Dev 1.021
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

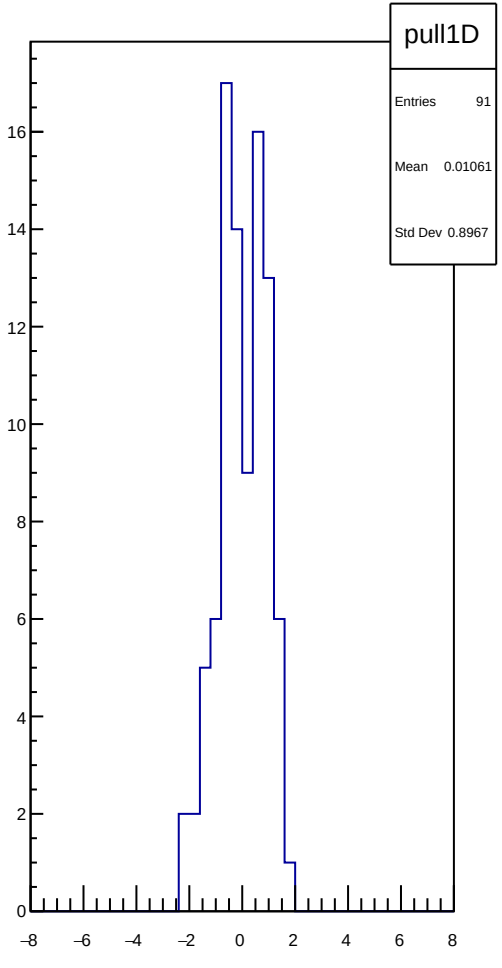

eigen_dit_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 7550 / 90
p0 85.27 ± 0.06461
130
120
110
100
90
80

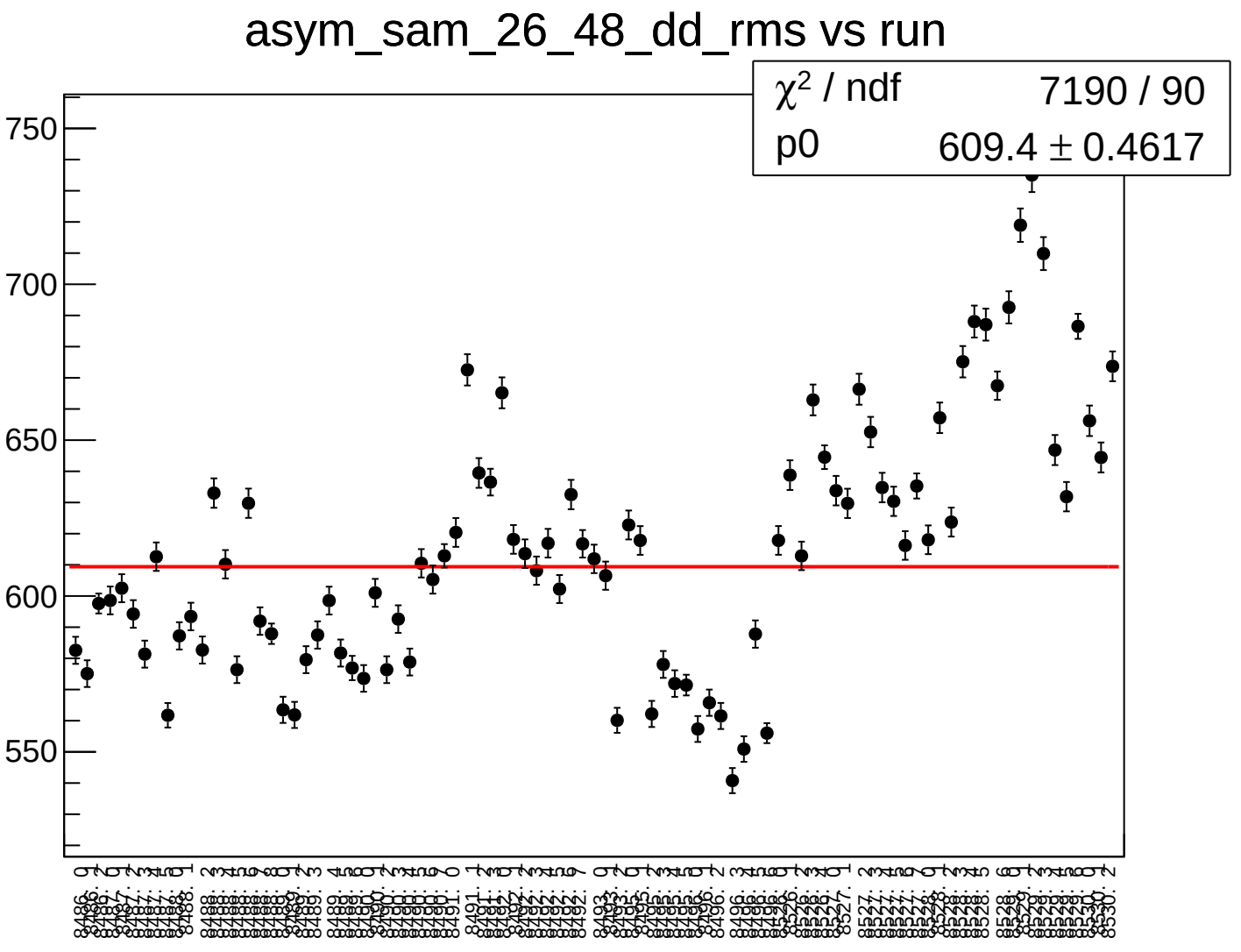

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 76.99 / 90
p0 2672 ± 664.4
pull
Entries 91
Mean 243.1
Std Dev 0

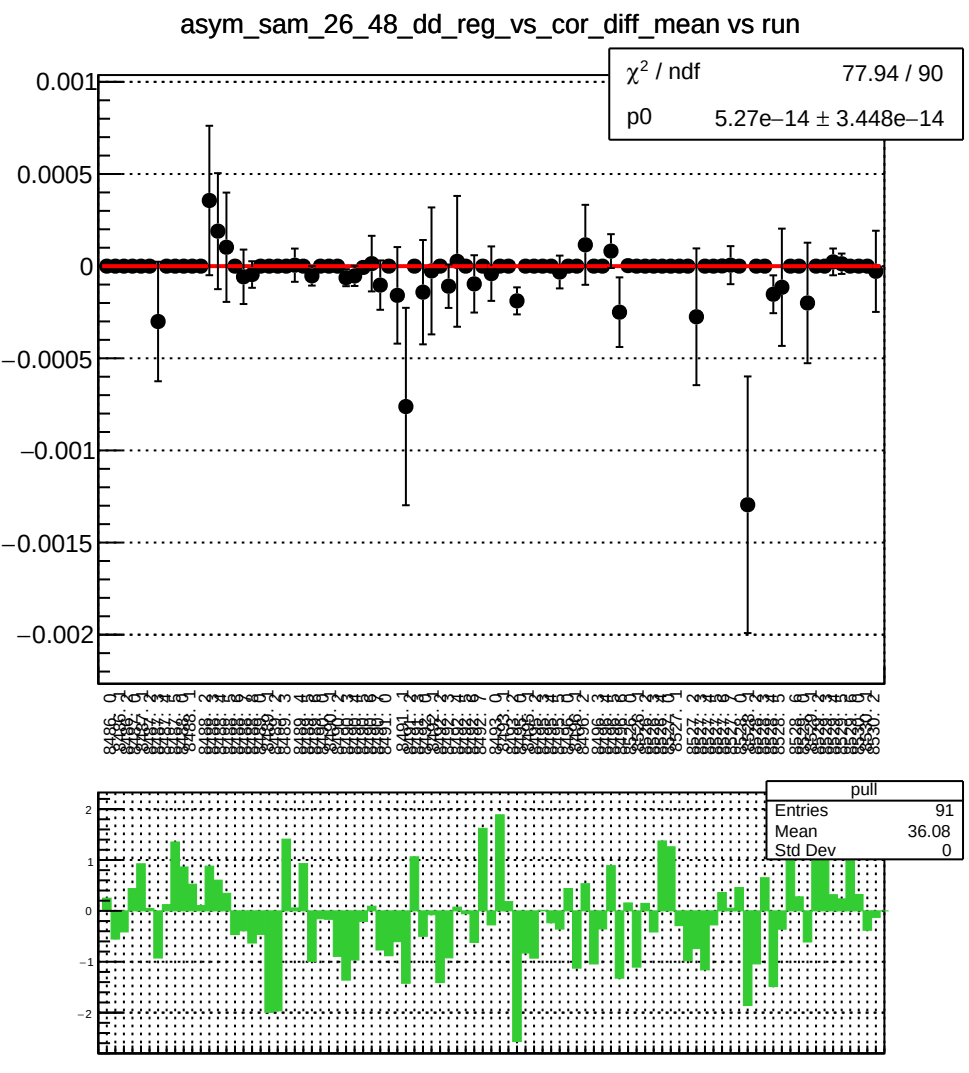

pull1D
Entries 91
Mean −0.01025
Std Dev 0.9198

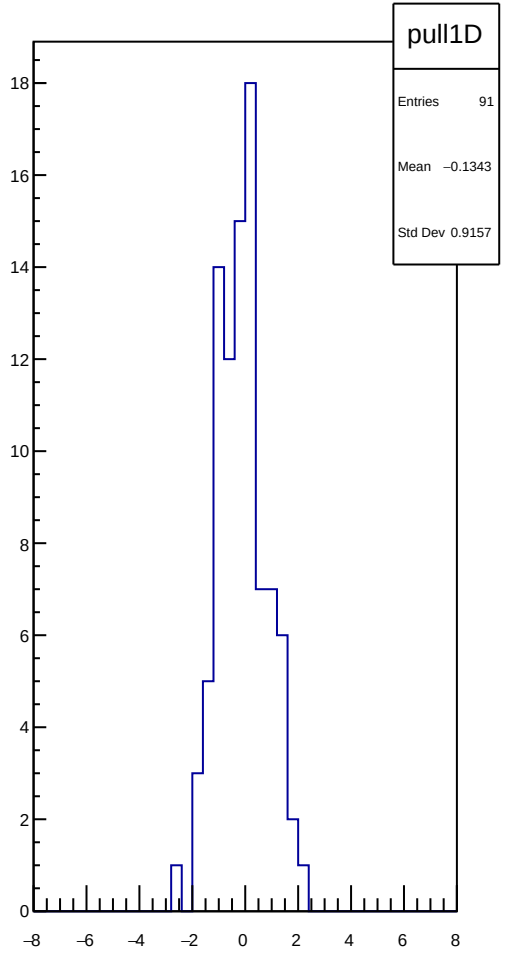

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 7539 / 90
p0 620 ± 0.4698
750
700
650
600
550

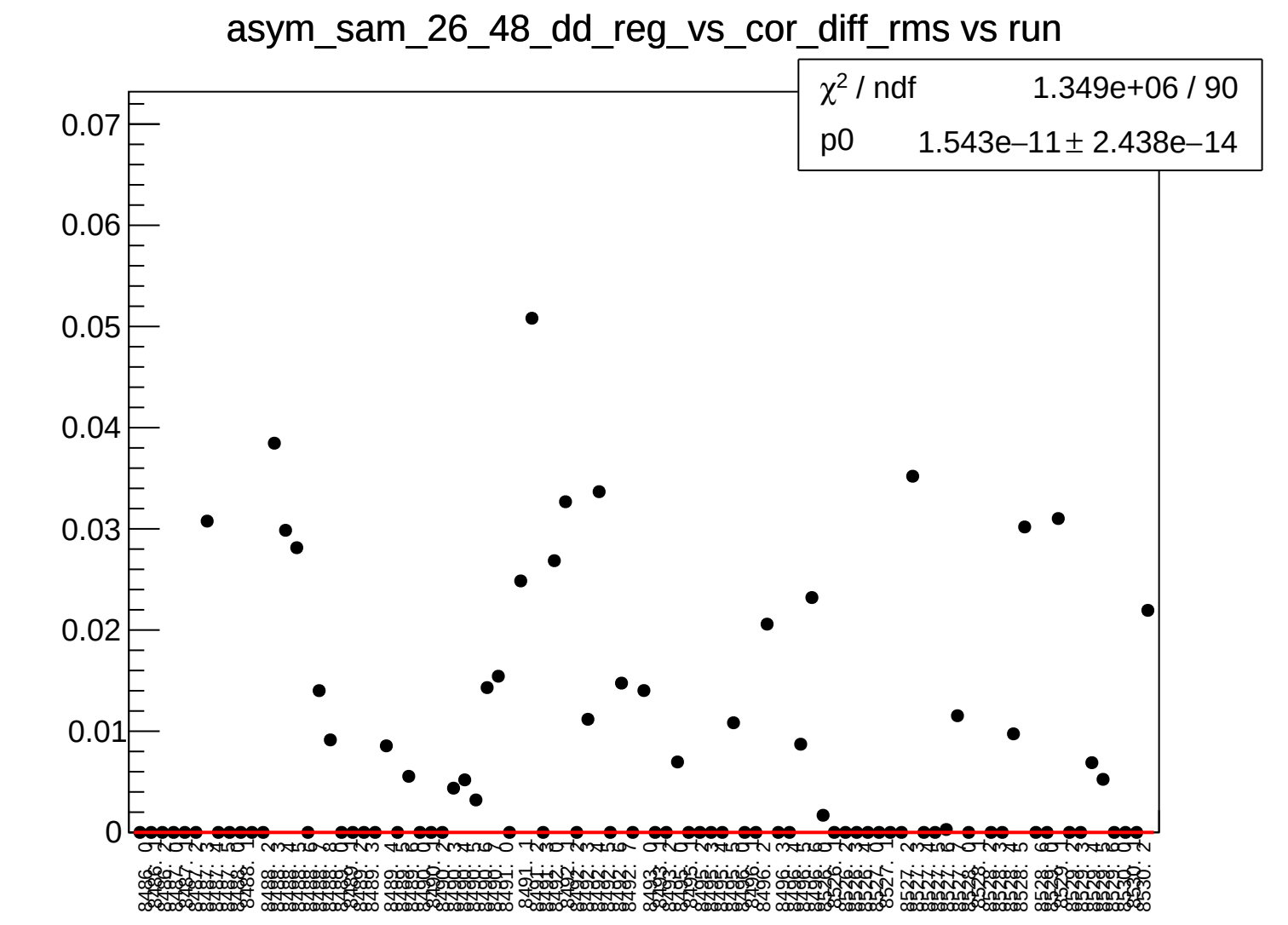

asym_sam_26_48_dd_mean vs run
χ² / ndf 73.18 / 90
p0 −2706 ± 652.9
pull
Entries 91
Mean 275.4
Std Dev 0

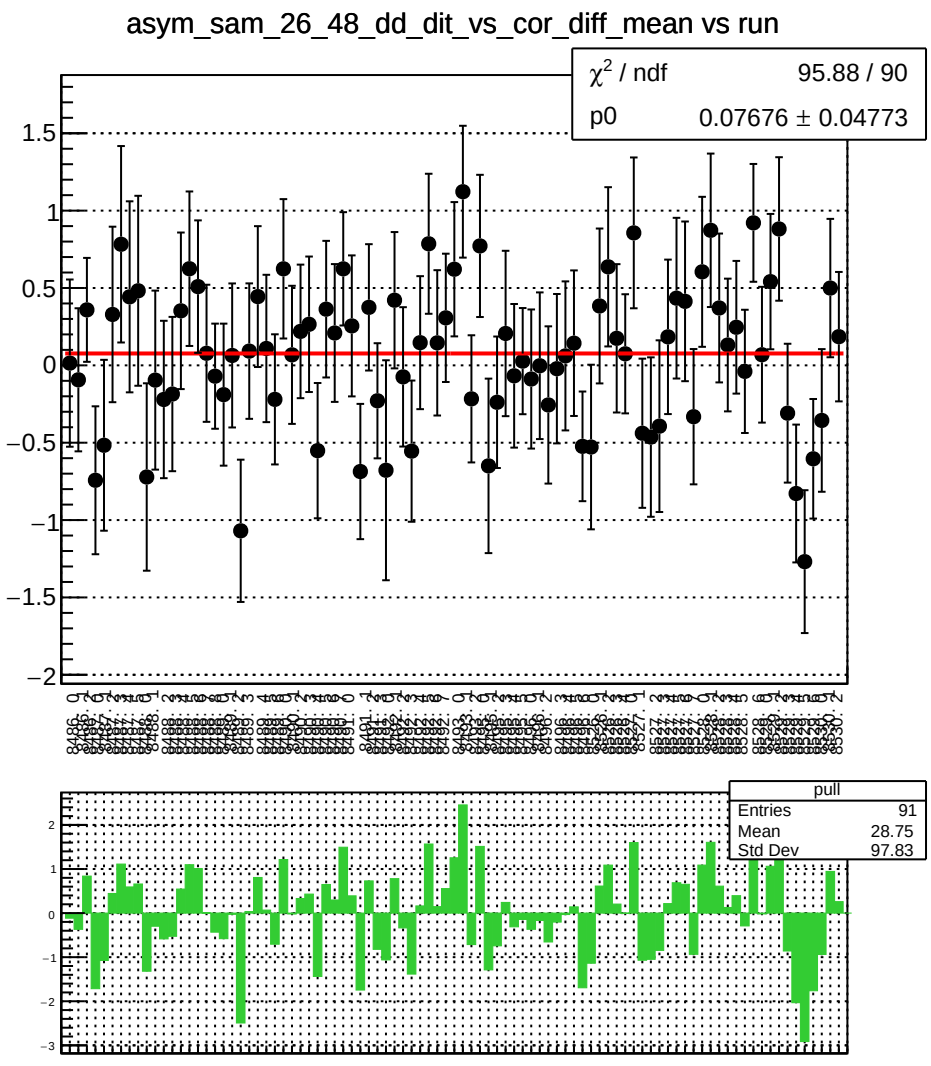

pull1D
Entries 91
Mean 0.01061
Std Dev 0.8967

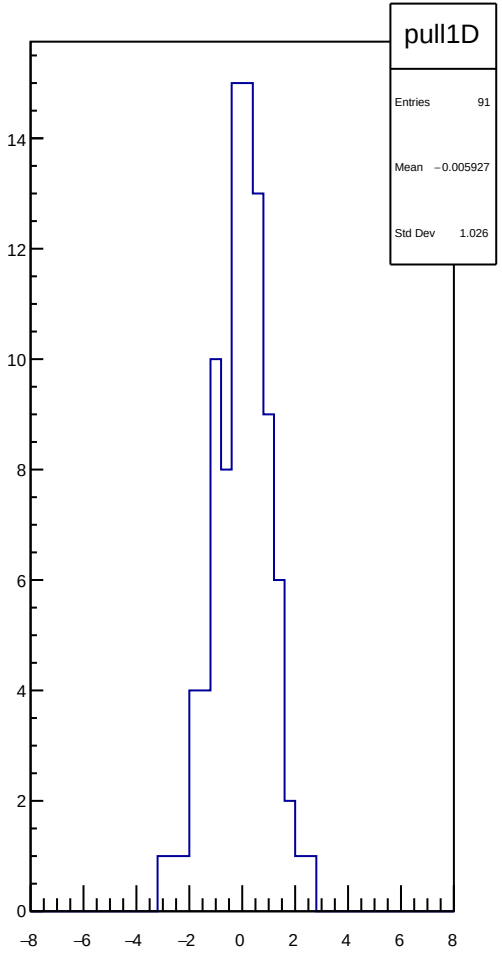

asym_sam_26_48_dd_rms vs run
χ² / ndf 7190 / 90
p0 609.4 ± 0.4617
750
700
650
600
550

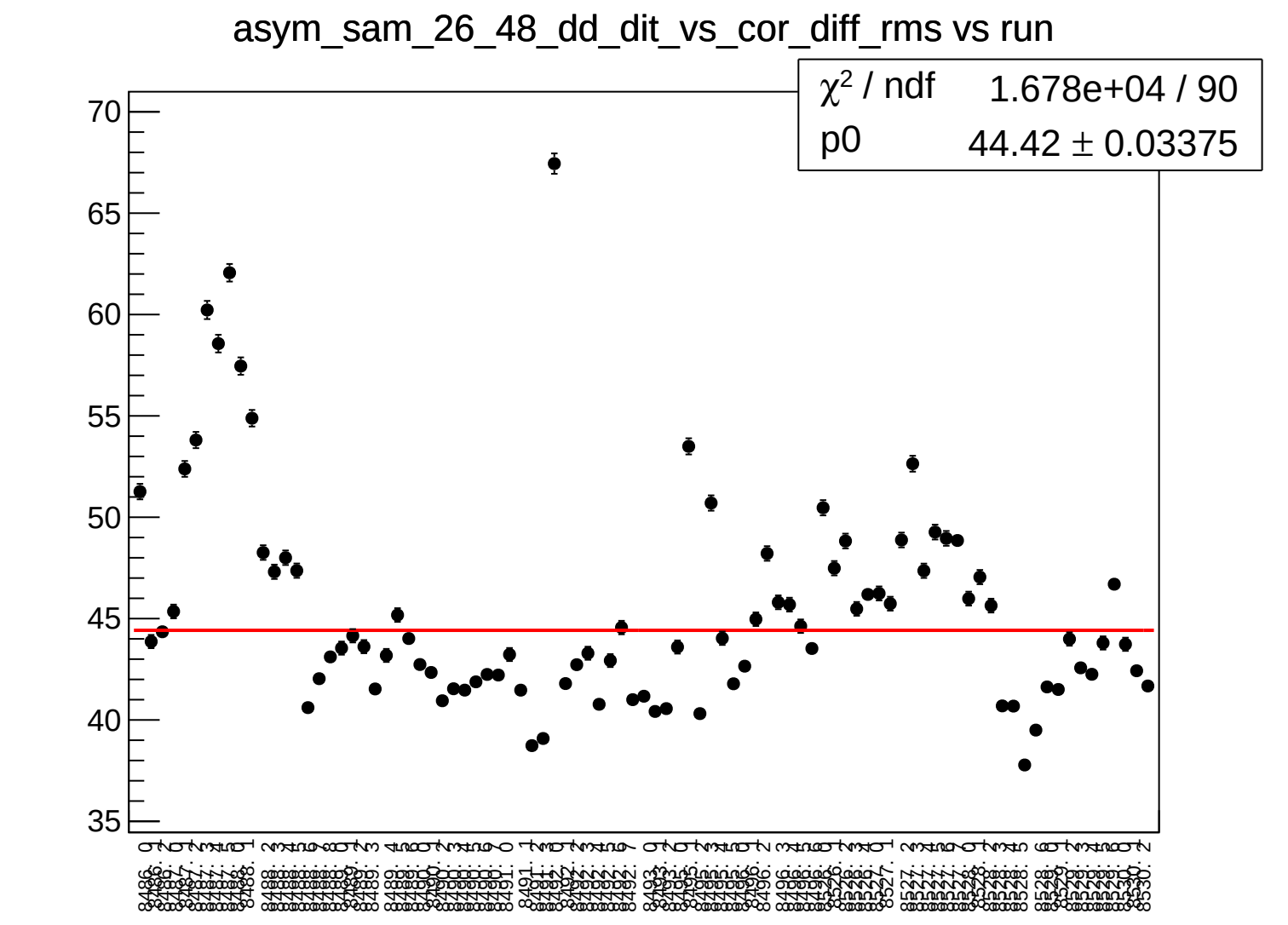

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 77.94 / 90
p0 5.27e−14 ± 3.448e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 91
Mean 36.08
Std Dev 0
2
1
0
−1
−2

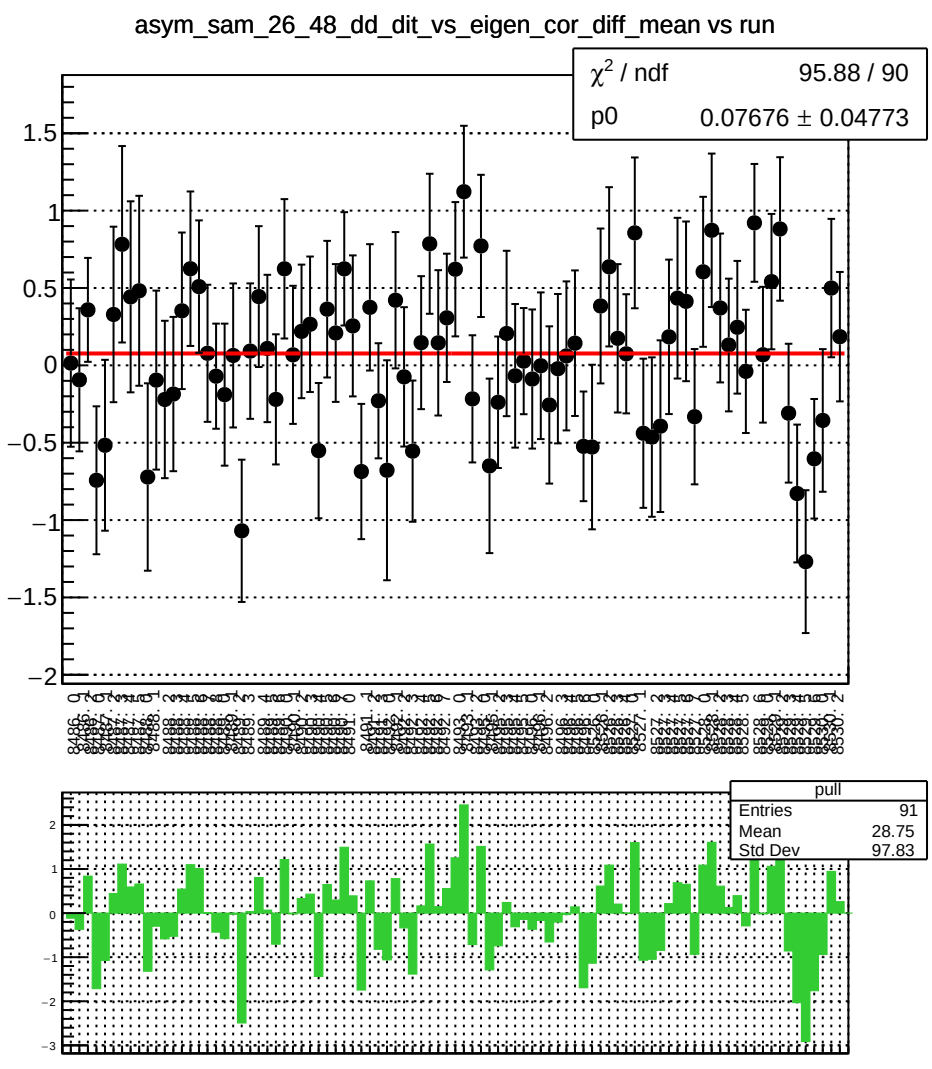

pull1D
Entries 91
Mean −0.1343
Std Dev 0.9157
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

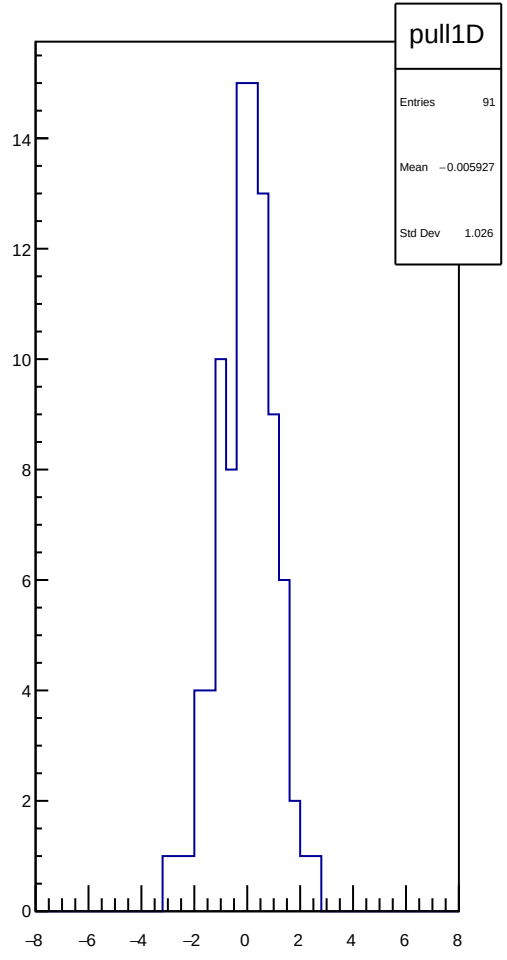

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.349e+06 / 90
p0 1.543e−11 ± 2.438e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

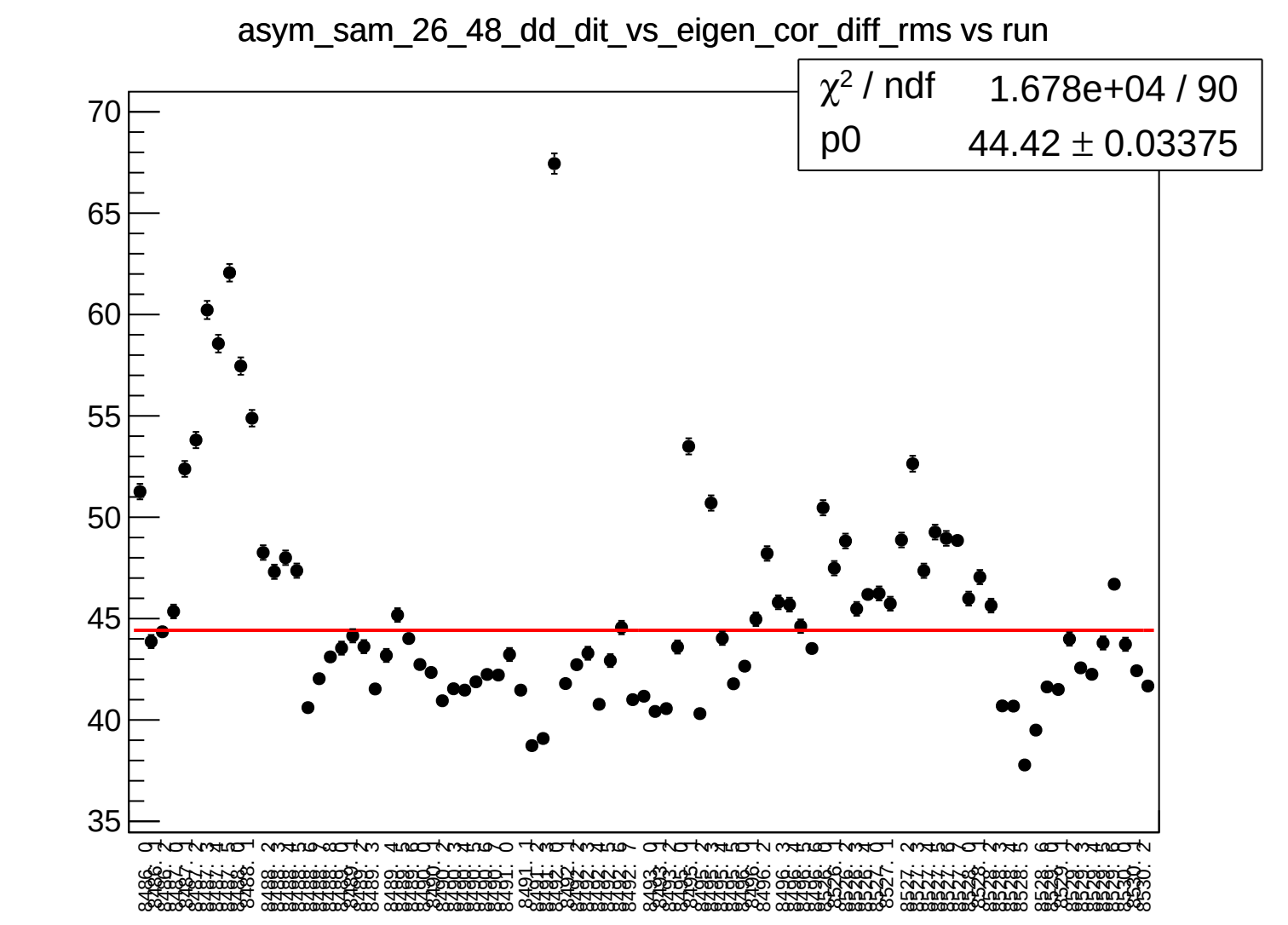

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 95.88 / 90
p0 0.07676 ± 0.04773
pull
Entries 91
Mean 28.75
Std Dev 97.83

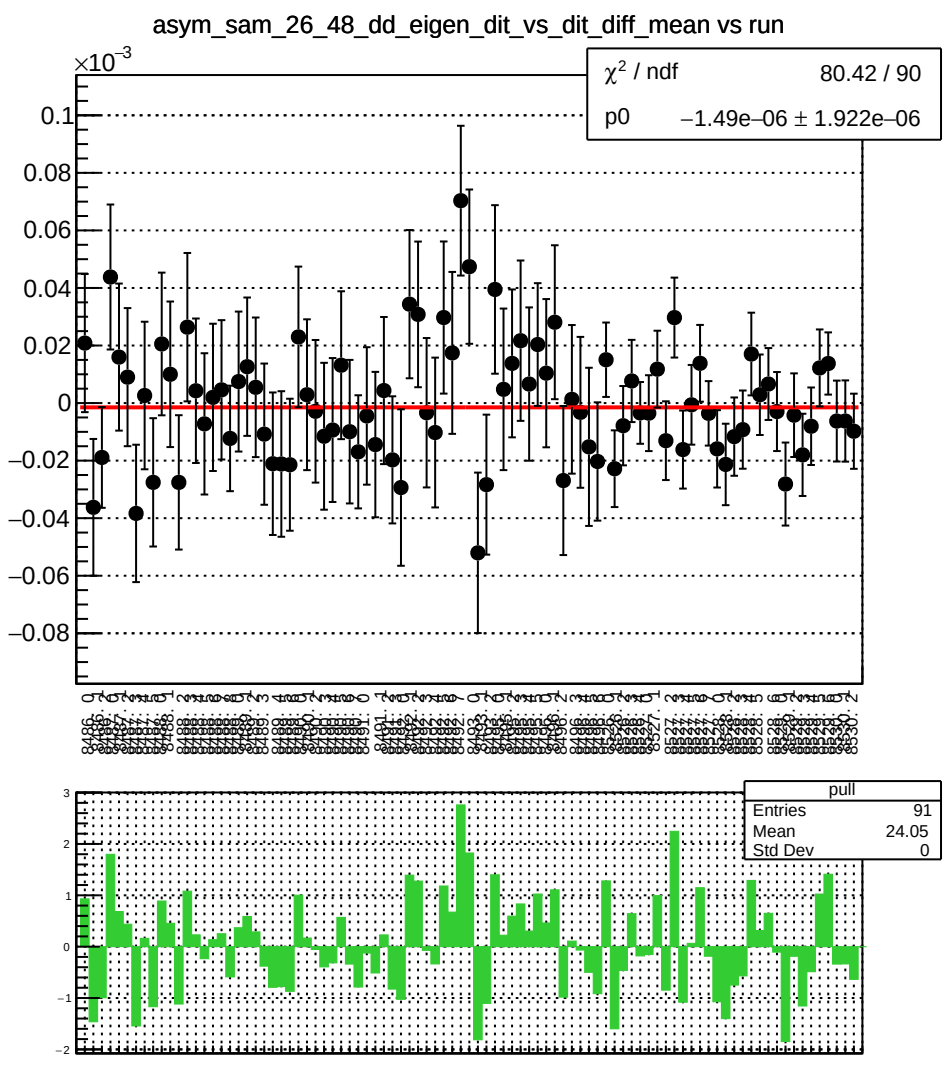

pull1D
Entries 91
Mean −0.005927
Std Dev 1.026

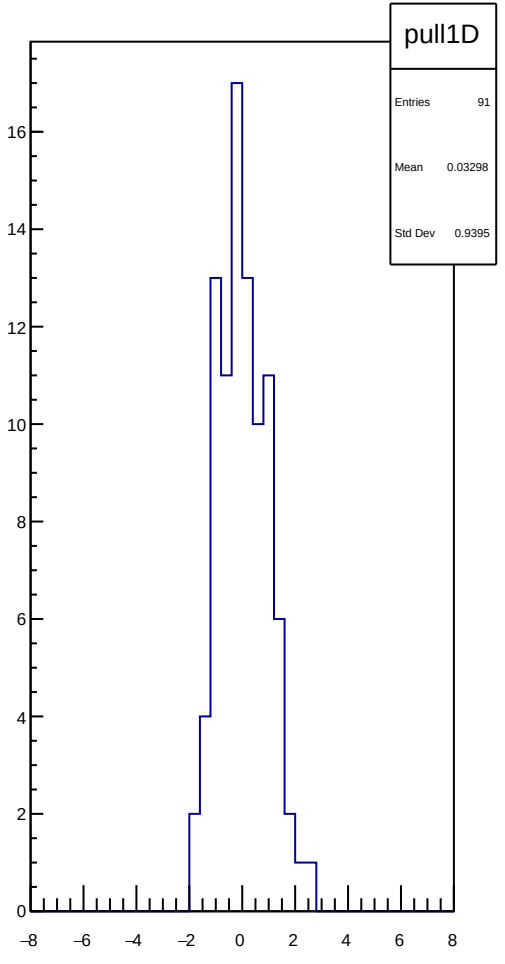

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.678e+04 / 90
p0 44.42 ± 0.03375
70
65
60
55
50
45
40
35

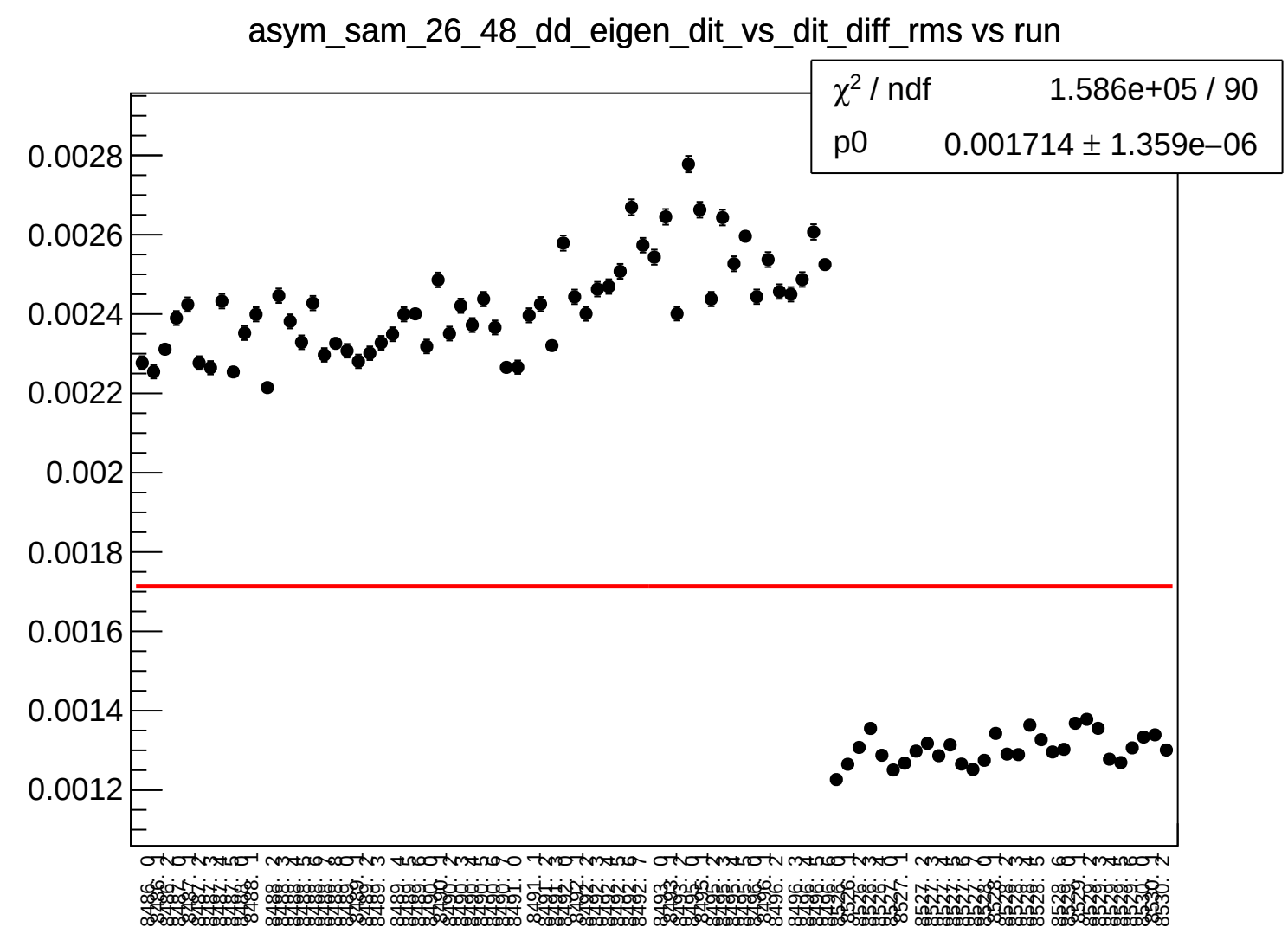

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.88 / 90
p0 0.07676 ± 0.04773
pull
Entries 91
Mean 28.75
Std Dev 97.83

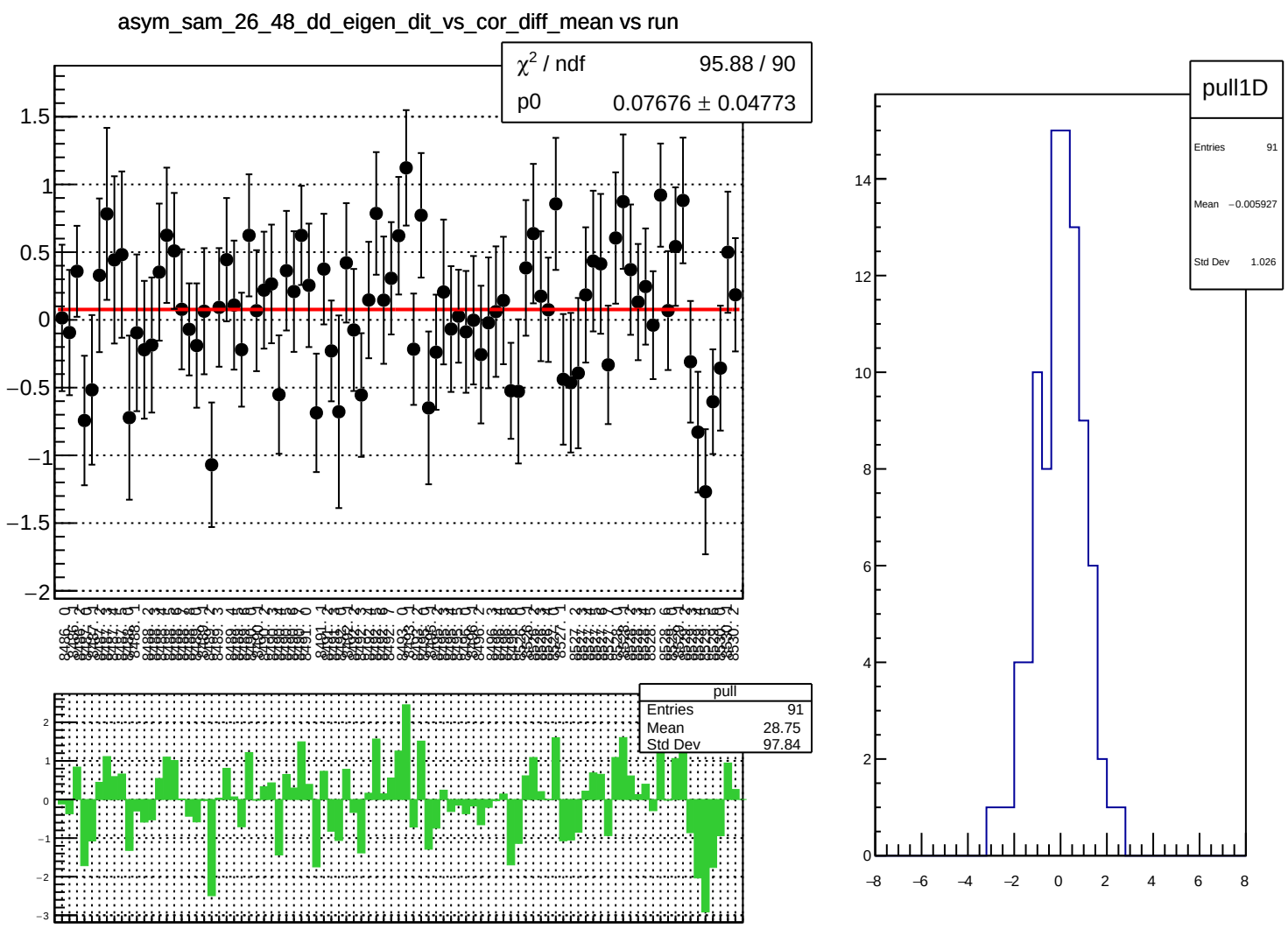

pull1D
Entries 91
Mean −0.005927
Std Dev 1.026

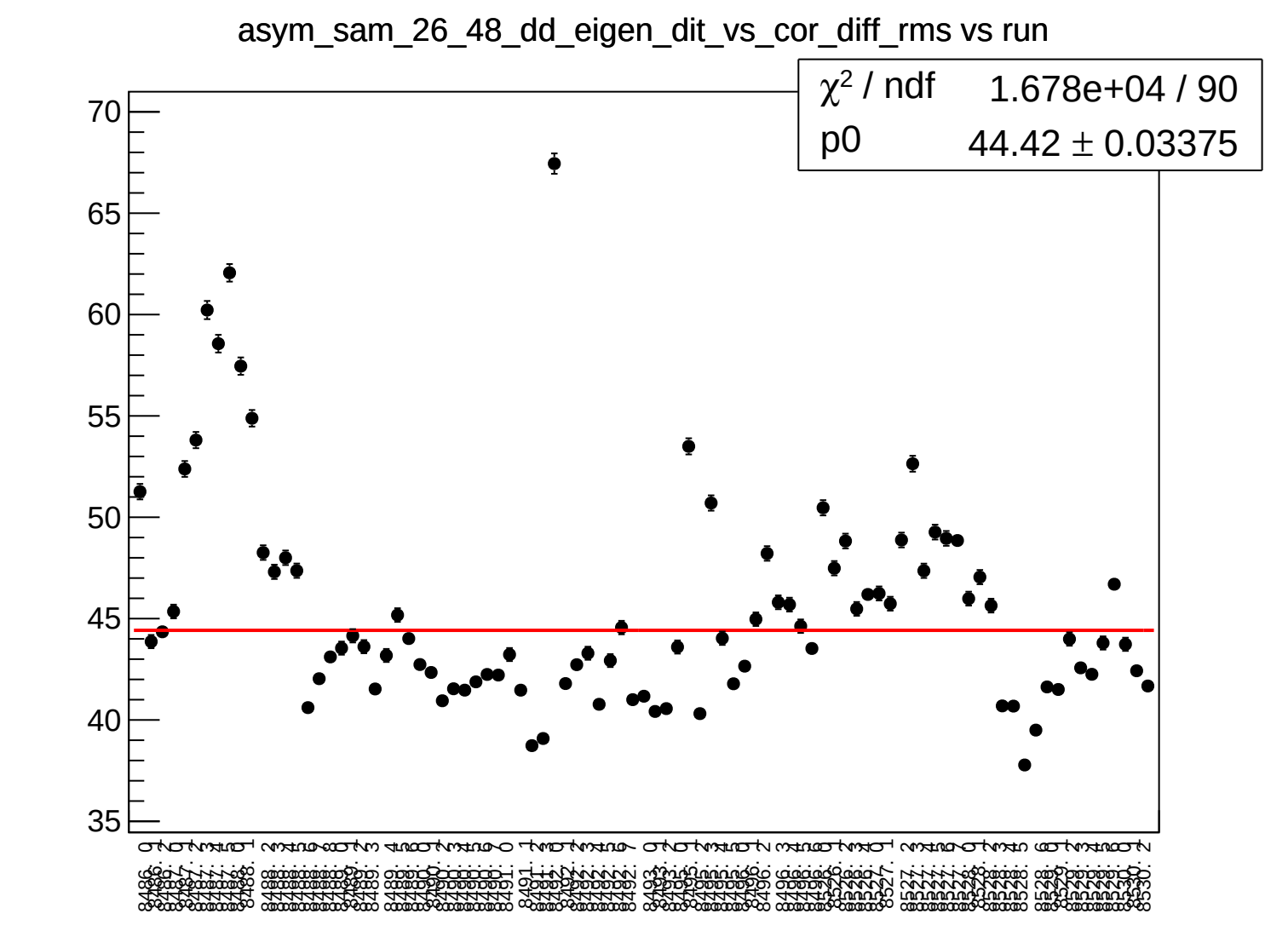

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.678e+04 / 90
p0 44.42 ± 0.03375
70
65
60
55
50
45
40
35

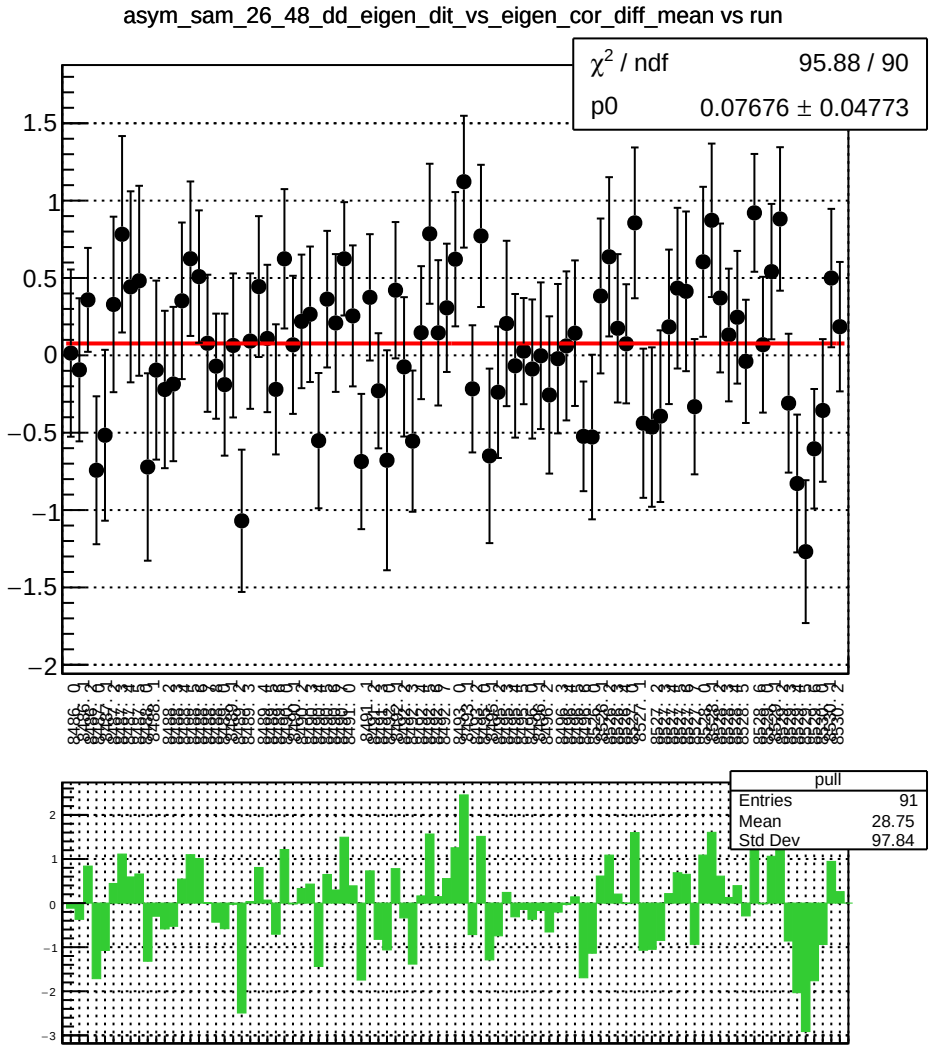

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.42 / 90
p0 −1.49e−06 ± 1.922e−06
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 91
Mean 24.05
Std Dev 0
3
2
1
0
−1
−2

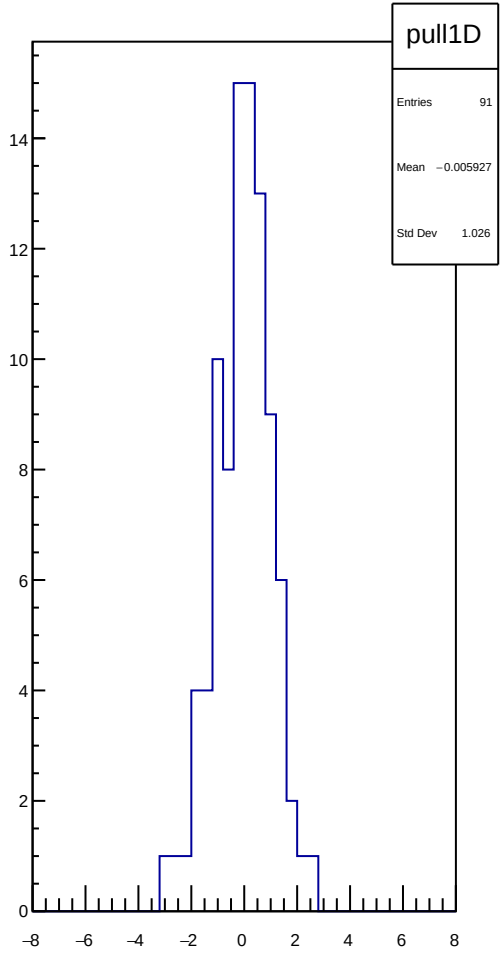

pull1D
Entries 91
Mean 0.03298
Std Dev 0.9395
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

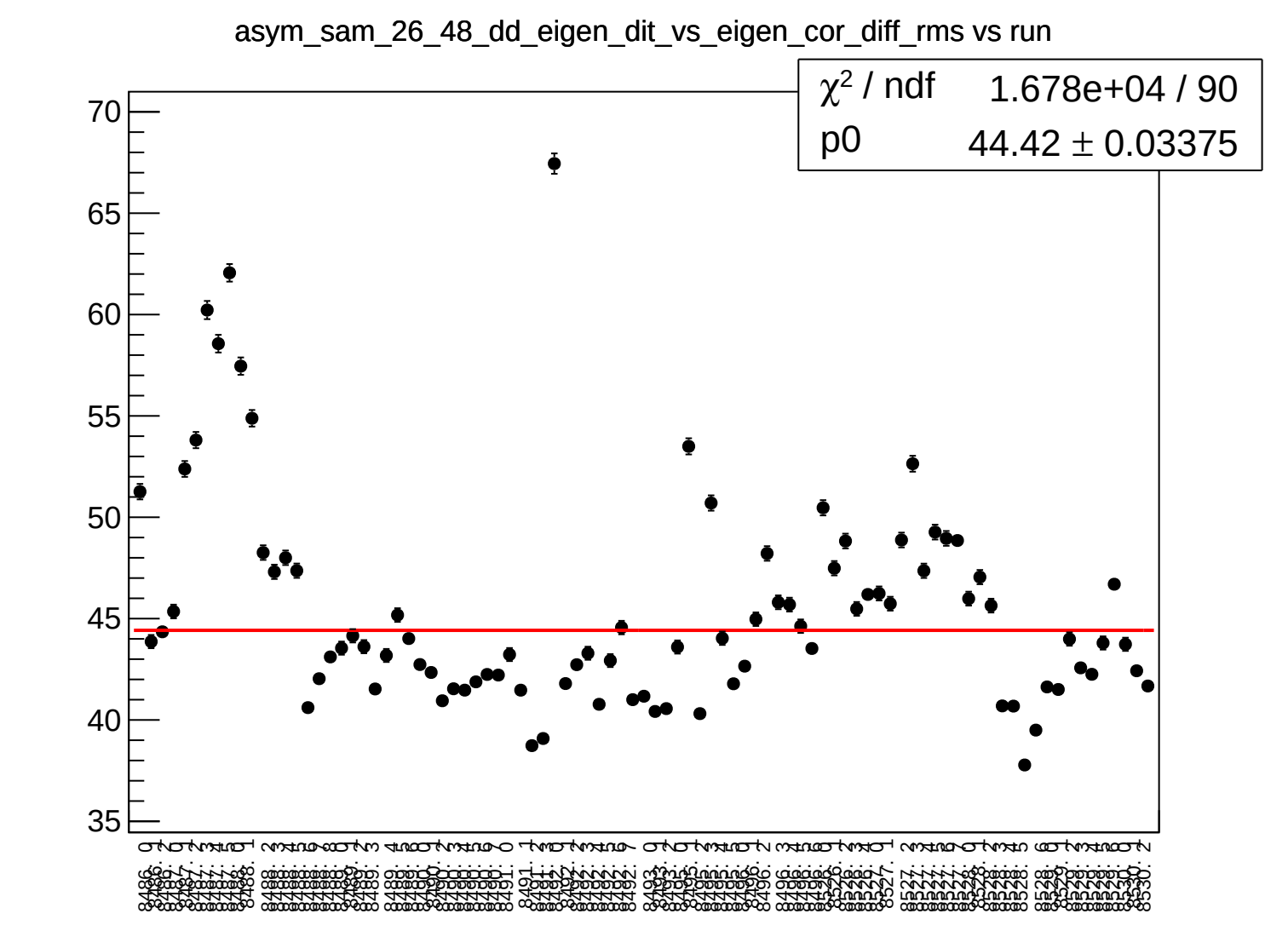

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.586e+05 / 90
p0 0.001714 ± 1.359e−06
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012

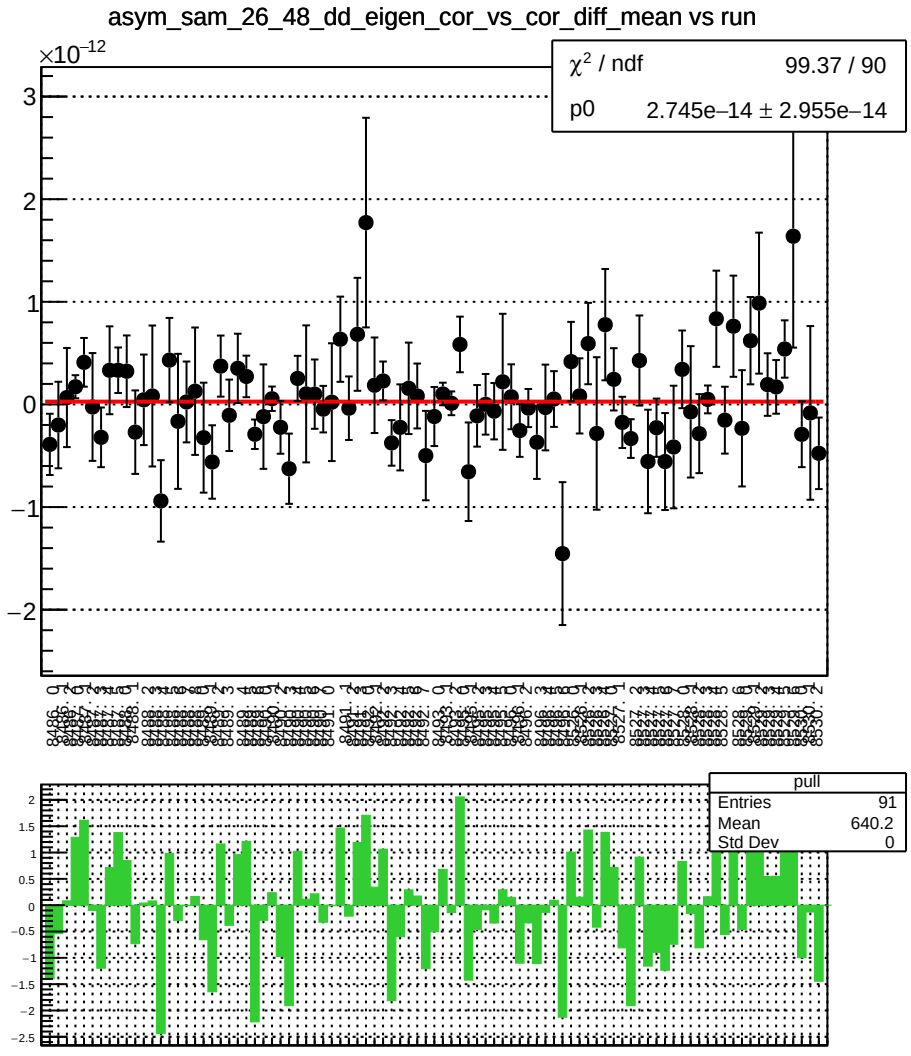

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.88 / 90
p0 0.07676 ± 0.04773
pull
Entries 91
Mean 28.75
Std Dev 97.84
pull1D
Entries 91
Mean −0.005927
Std Dev 1.026

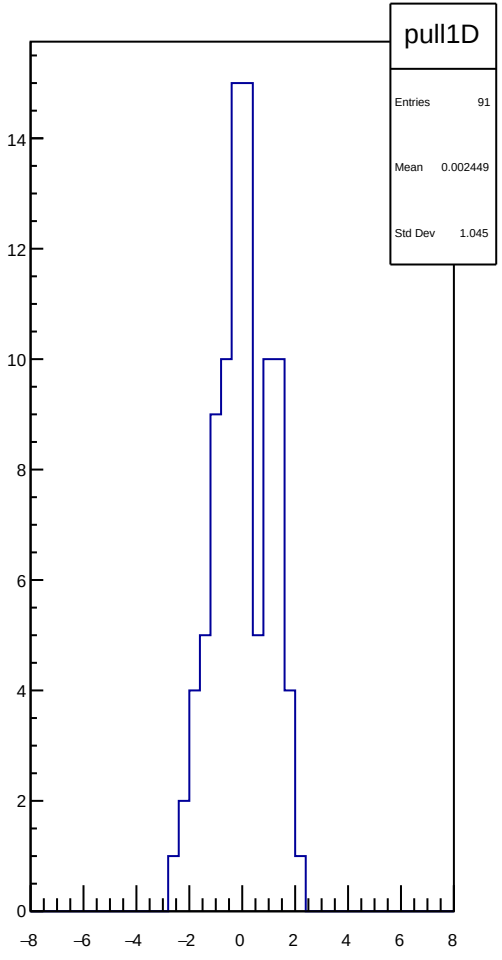

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.678e+04 / 90
p0 44.42 ± 0.03375
70
65
60
55
50
45
40
35

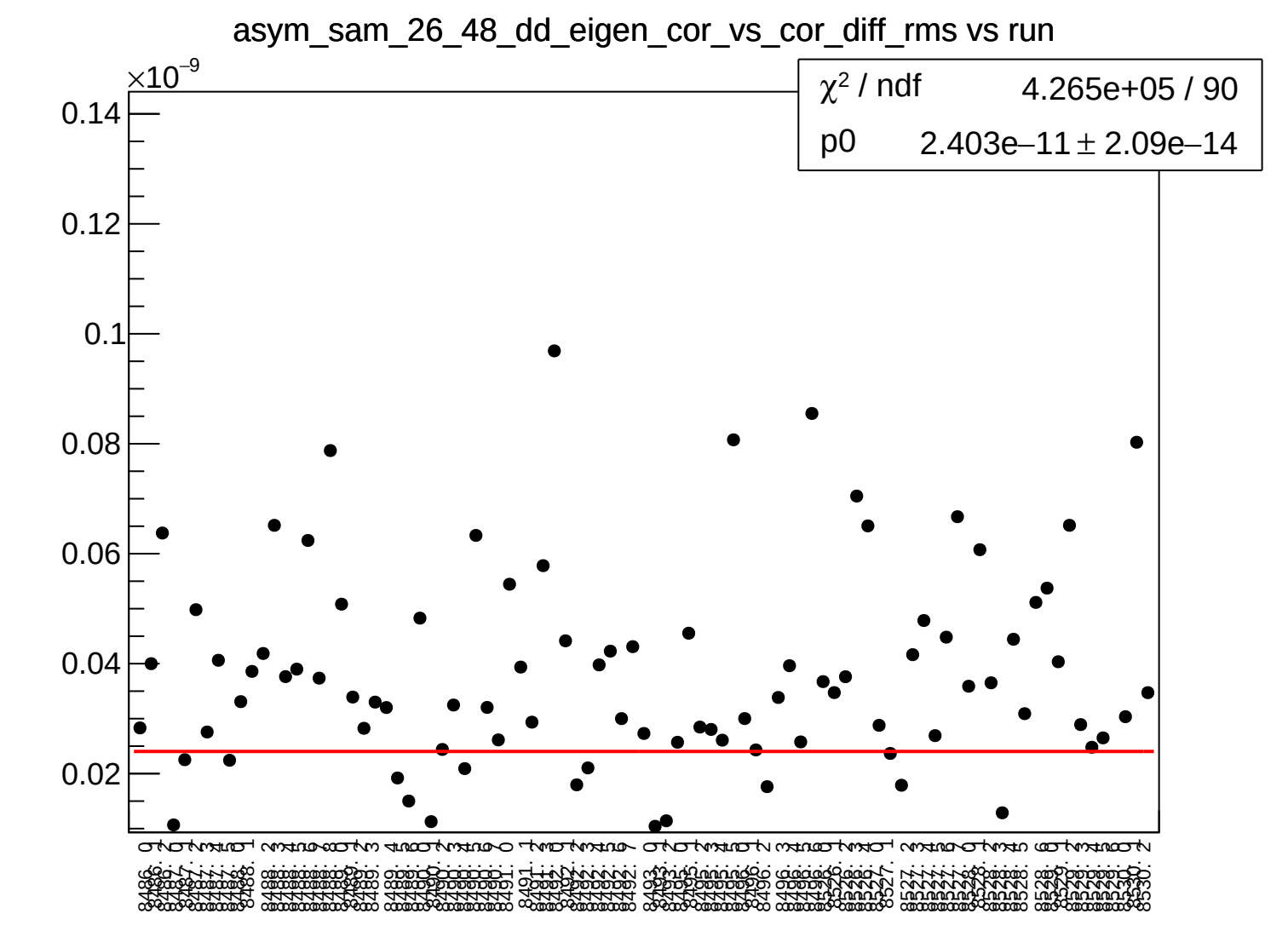

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.88 / 90
p0 0.07676 ± 0.04773
pull
Entries 91
Mean 28.75
Std Dev 97.84

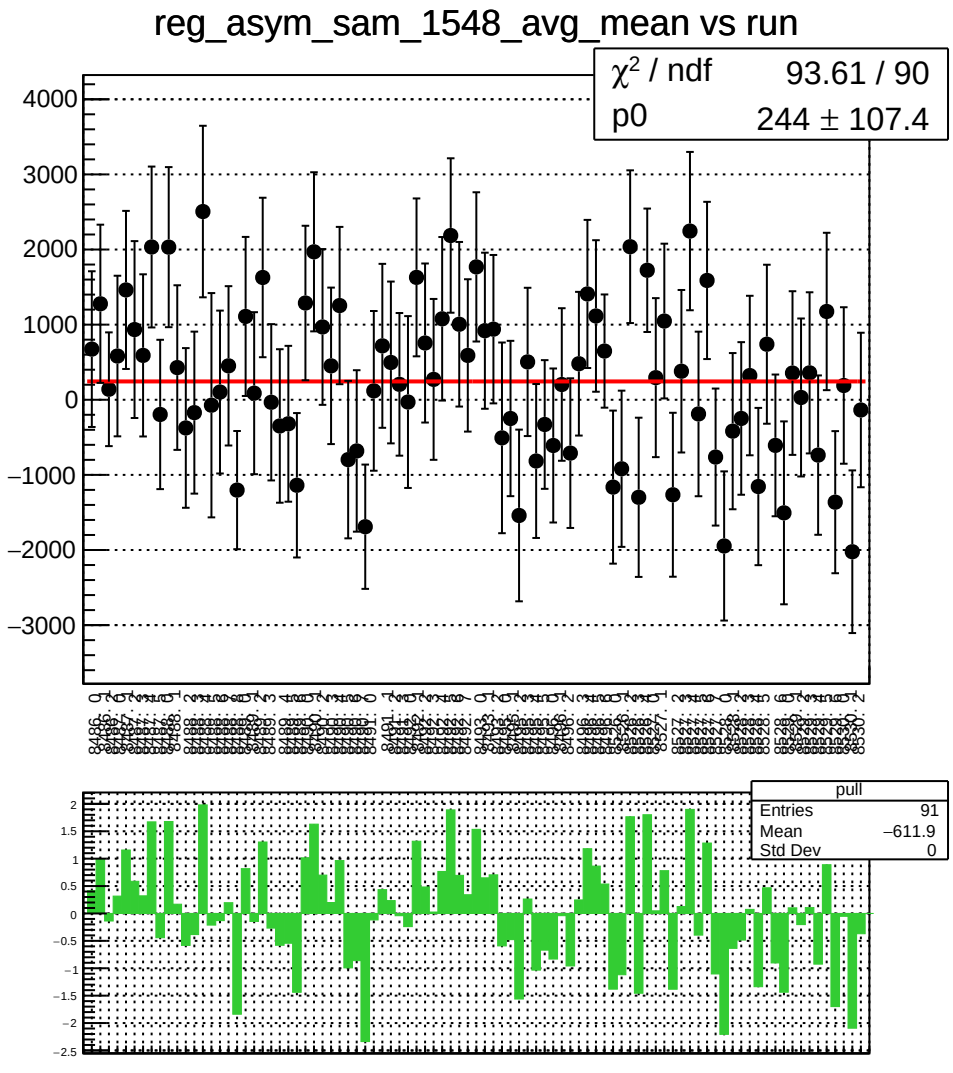

pull1D
Entries 91
Mean −0.005927
Std Dev 1.026

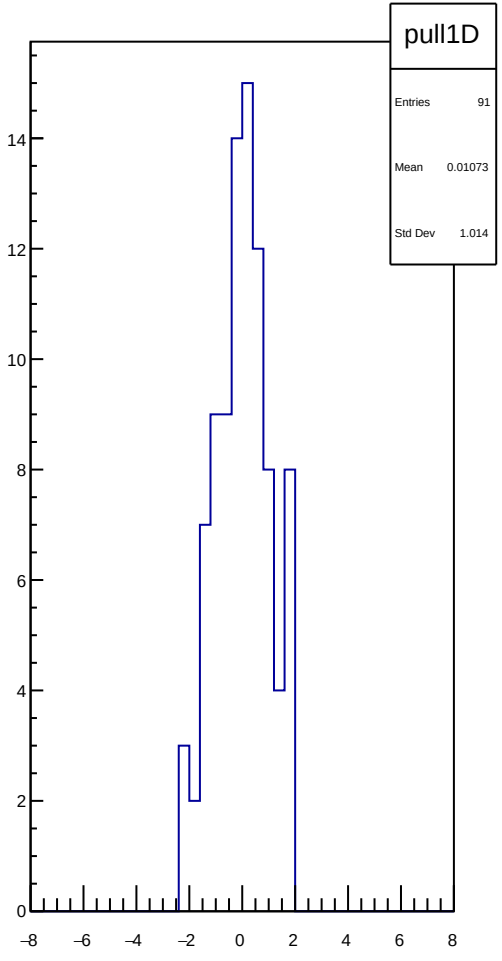

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.678e+04 / 90
p0 44.42 ± 0.03375
70
65
60
55
50
45
40
35

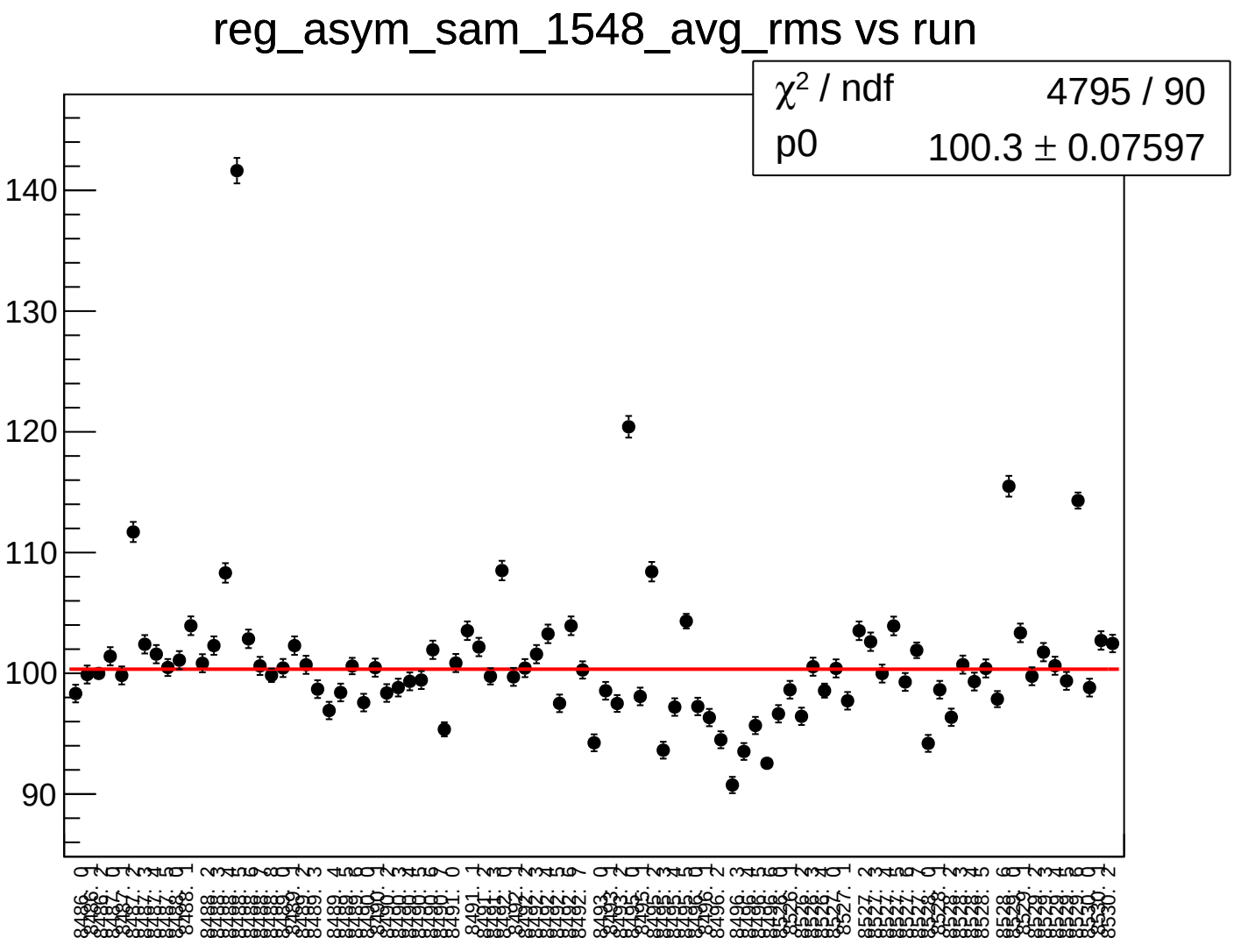

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.37 / 90
p0 2.745e−14 ± 2.955e−14
pull
Entries 91
Mean 640.2
Std Dev 0

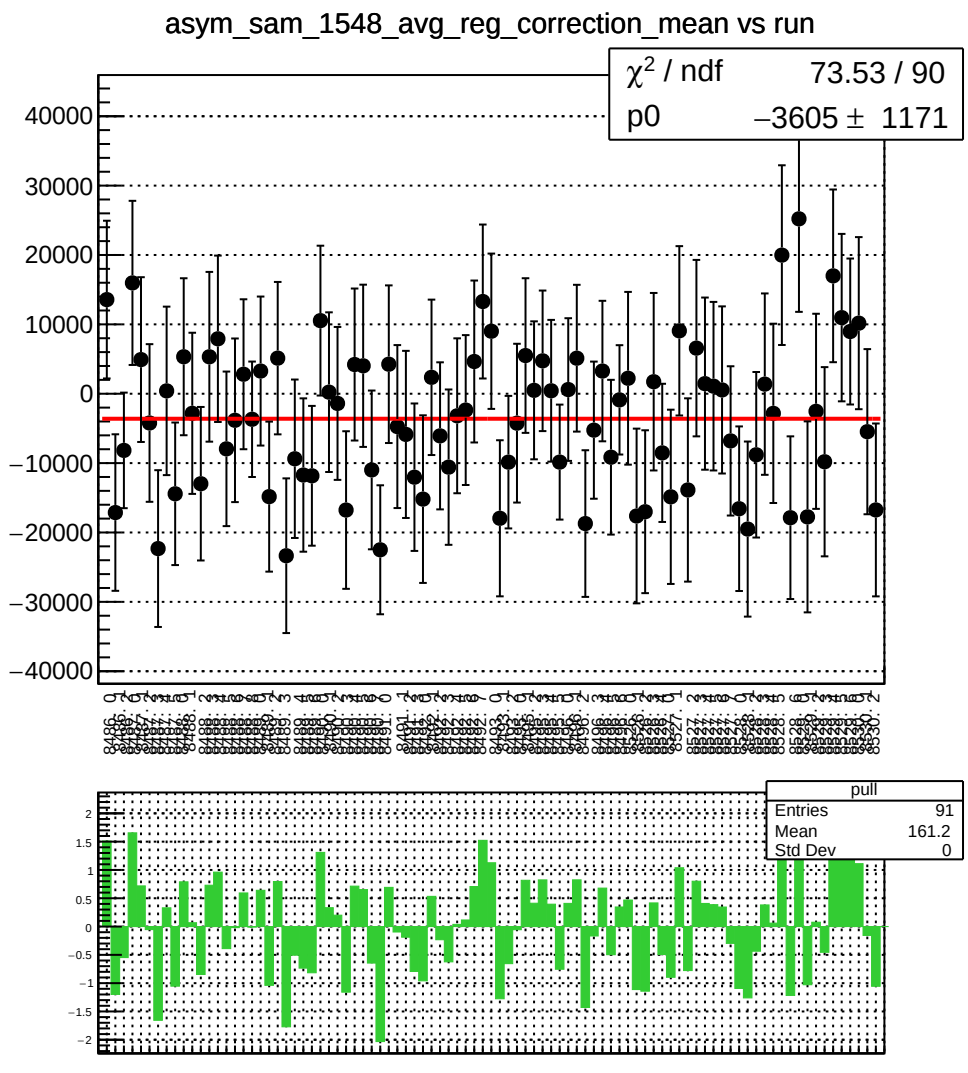

pull1D
Entries 91
Mean 0.002449
Std Dev 1.045

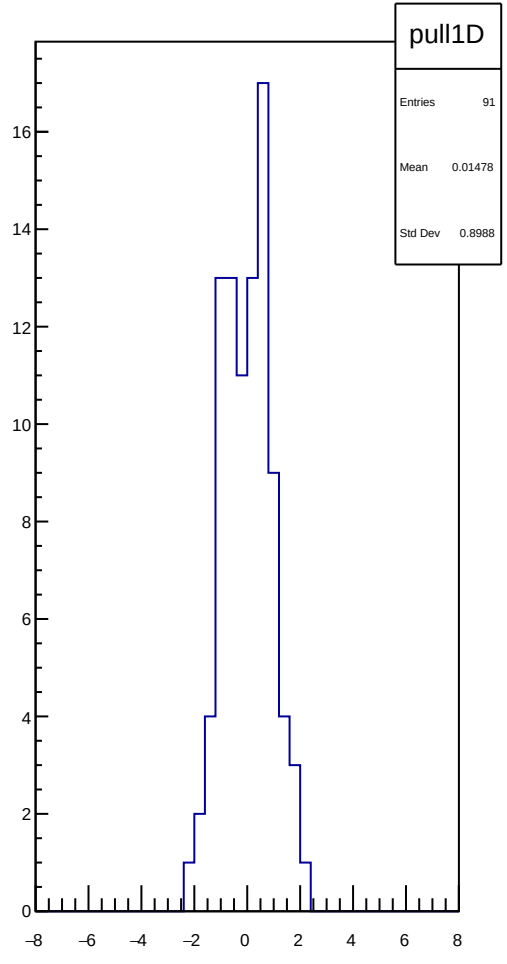

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.265e+05 / 90
p0 2.403e−11 ± 2.09e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

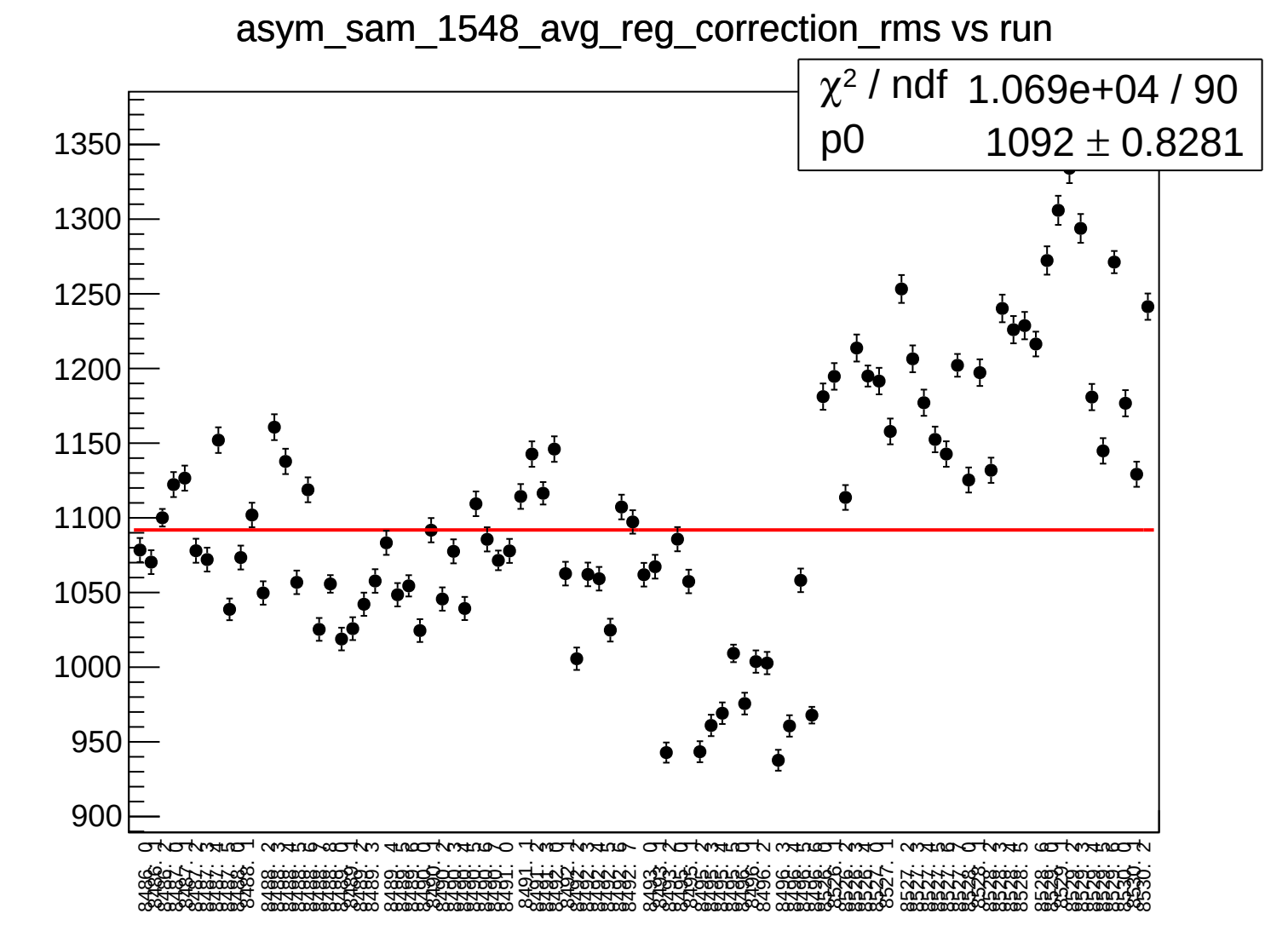

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 93.61 / 90
p0 244 ± 107.4
pull
Entries 91
Mean −611.9
Std Dev 0

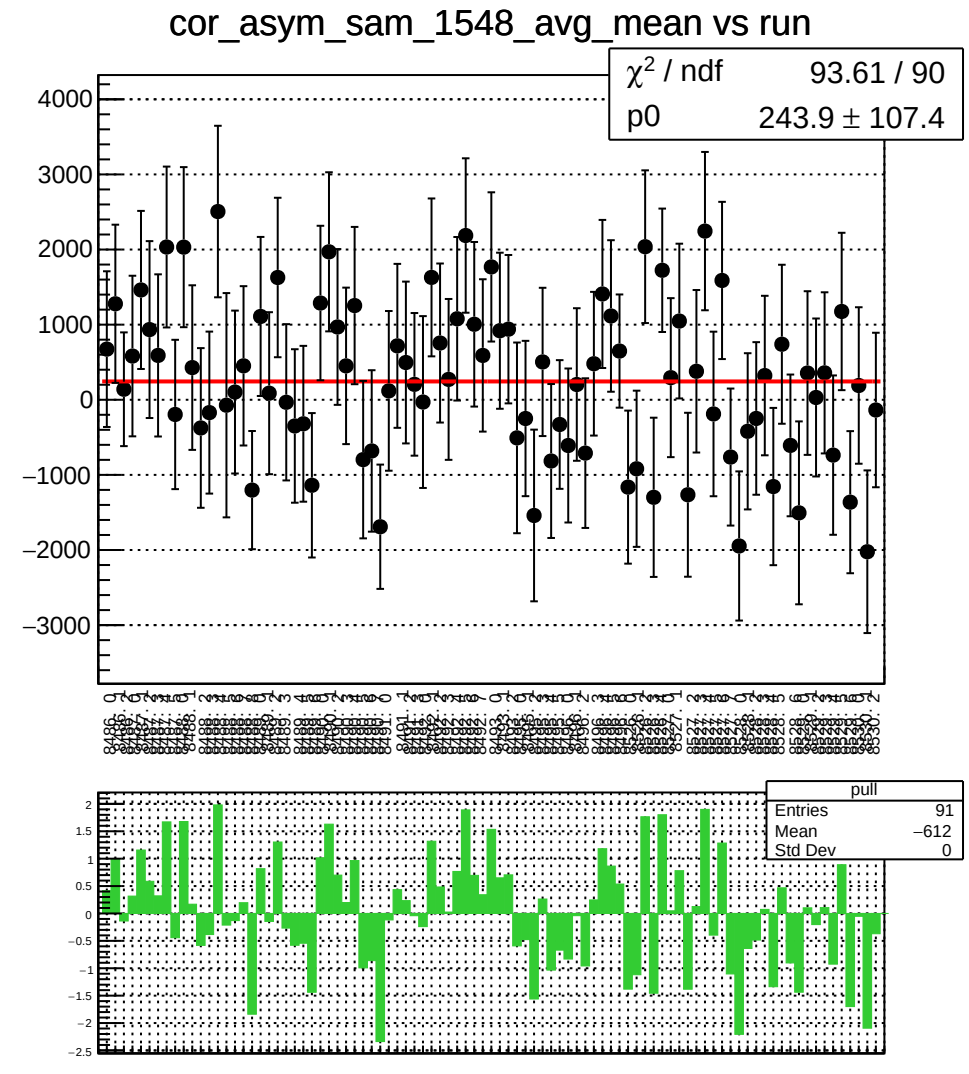

pull1D
Entries 91
Mean 0.01073
Std Dev 1.014

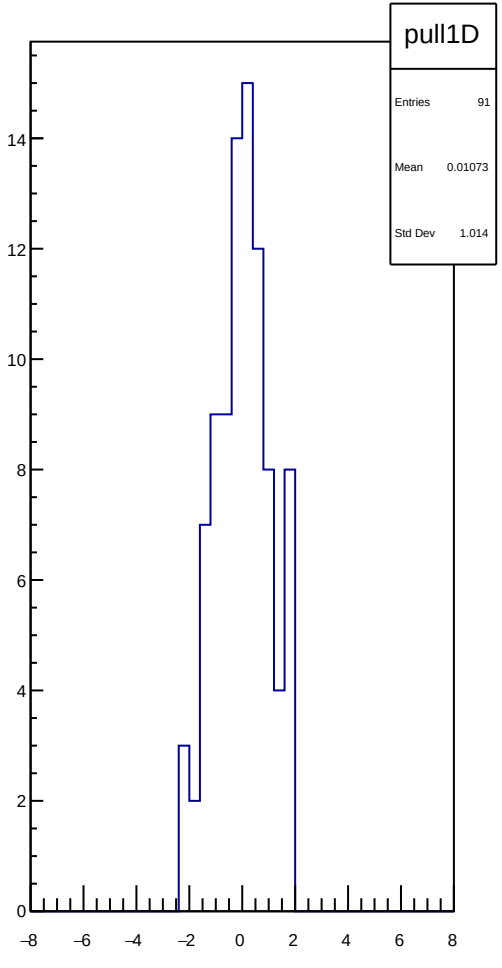

reg_asym_sam_1548_avg_rms vs run
χ^2 / ndf 4795 / 90
p0 100.3 ± 0.07597
140
130
120
110
100
90

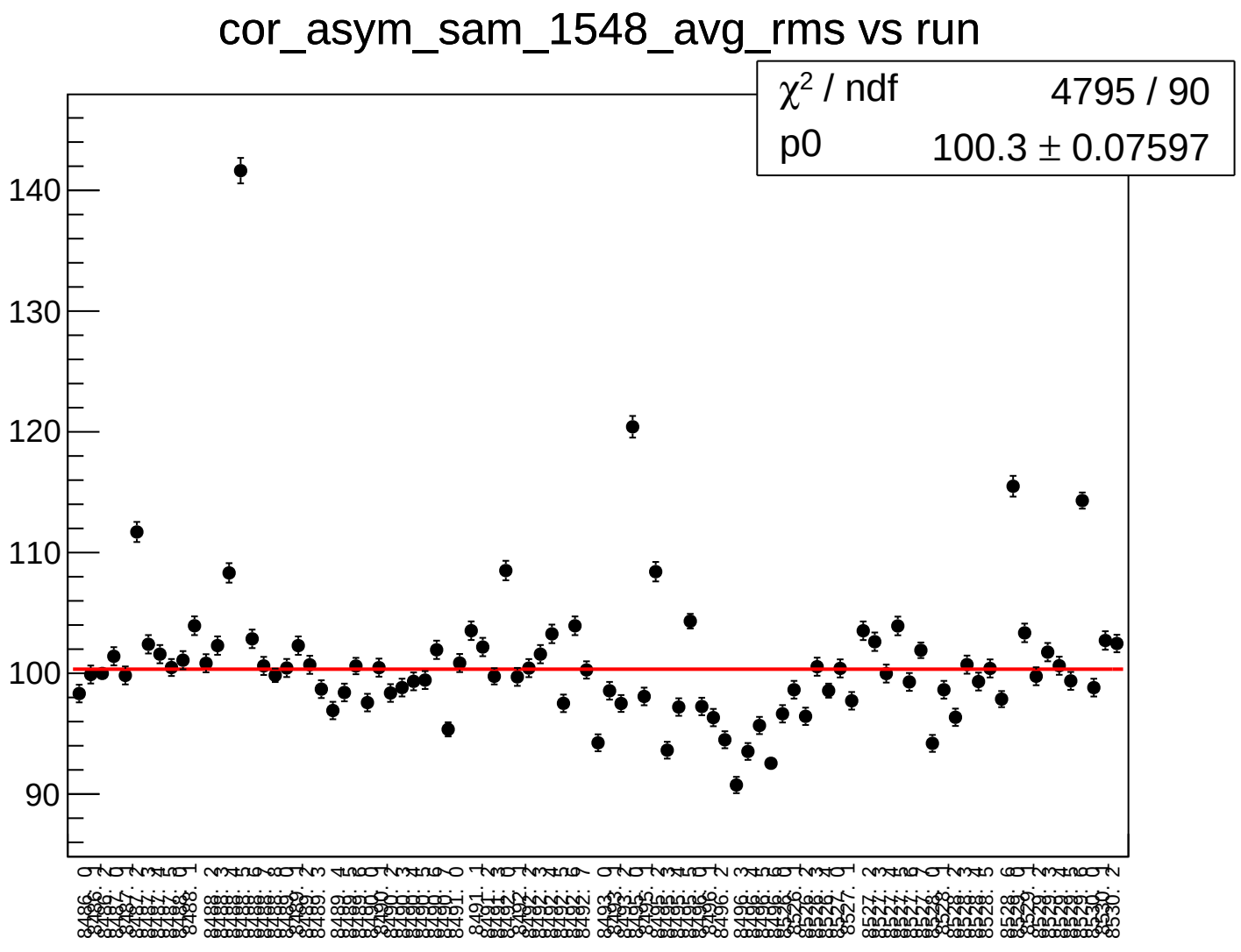

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 73.53 / 90
p0 −3605 ± 1171
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean 161.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

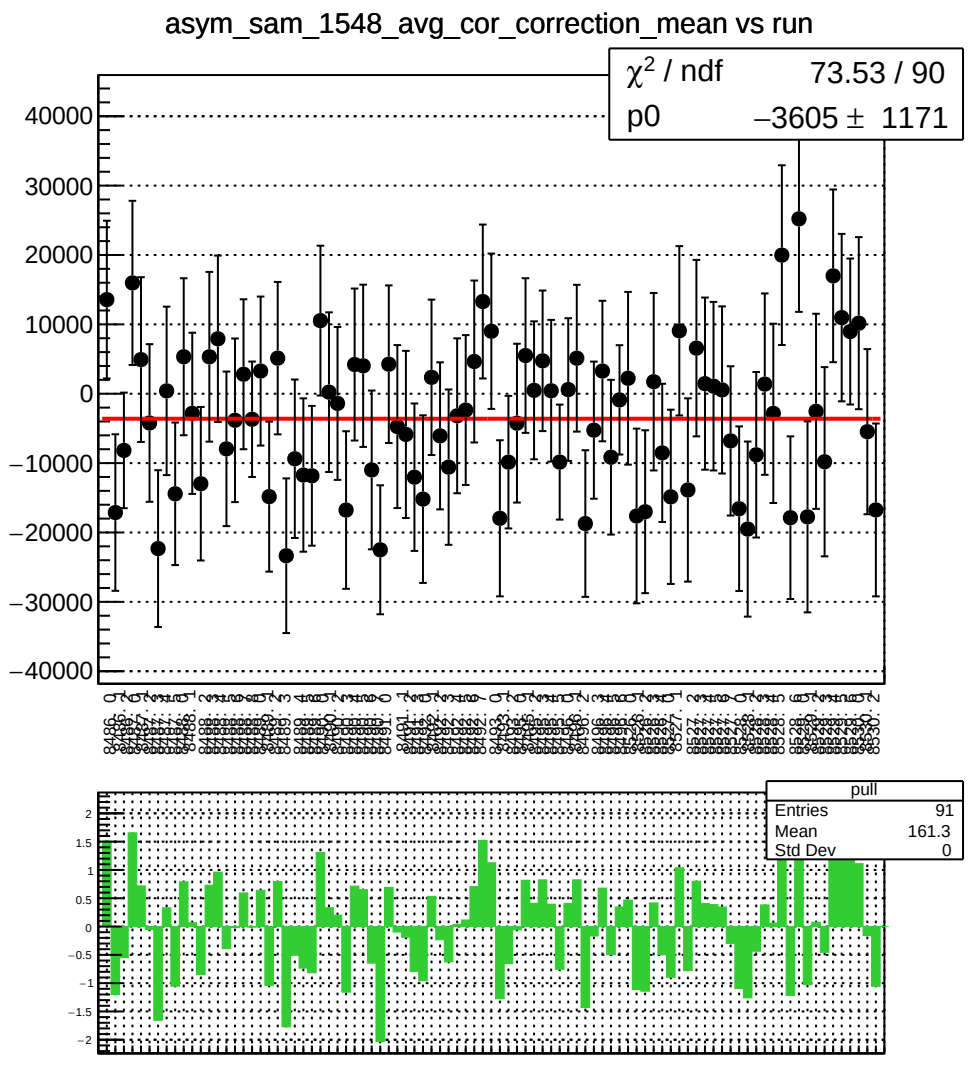

pull1D
Entries 91
Mean 0.01478
Std Dev 0.8988
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

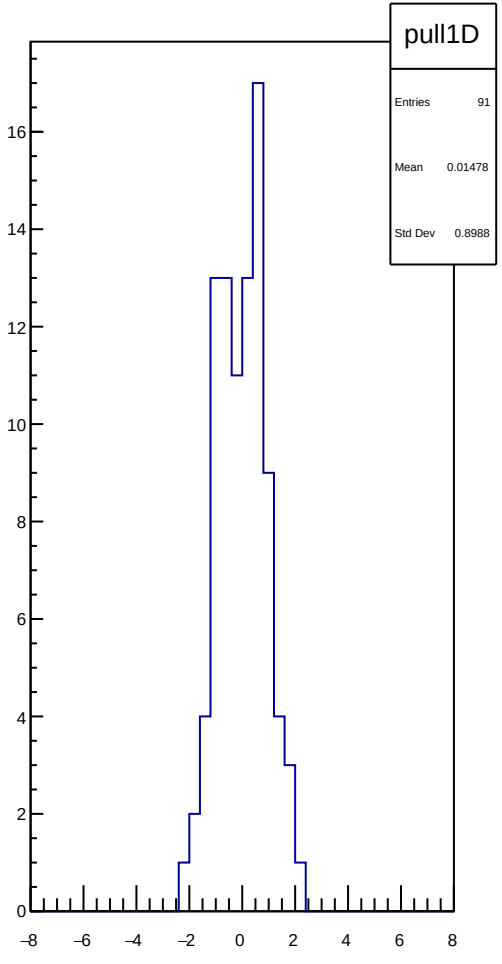

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 1.069e+04 / 90
p0 1092 ± 0.8281
1350
1300
1250
1200
1150
1100
1050
1000
950
900

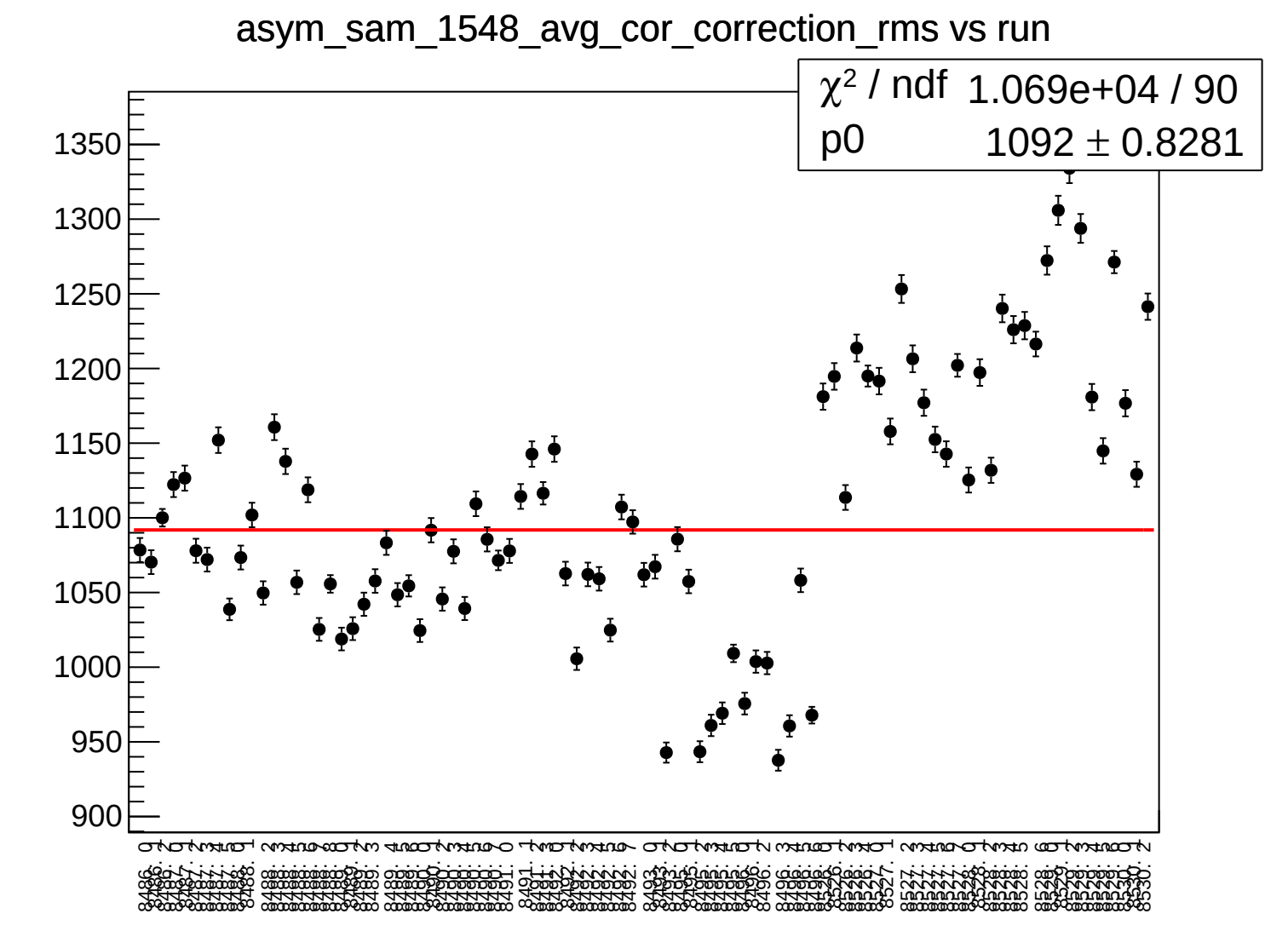

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 93.61 / 90
p0 243.9 ± 107.4
pull
Entries 91
Mean −612
Std Dev 0

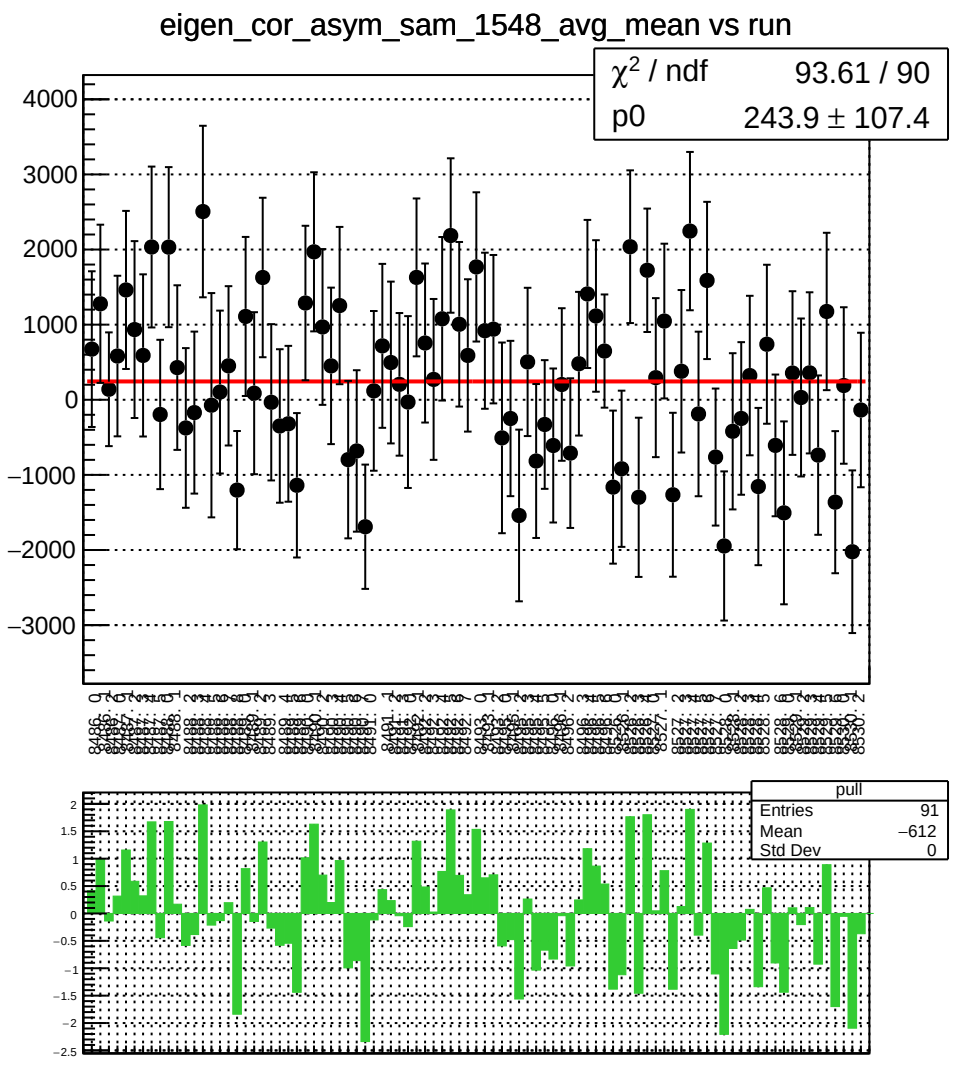

pull1D
Entries 91
Mean 0.01073
Std Dev 1.014

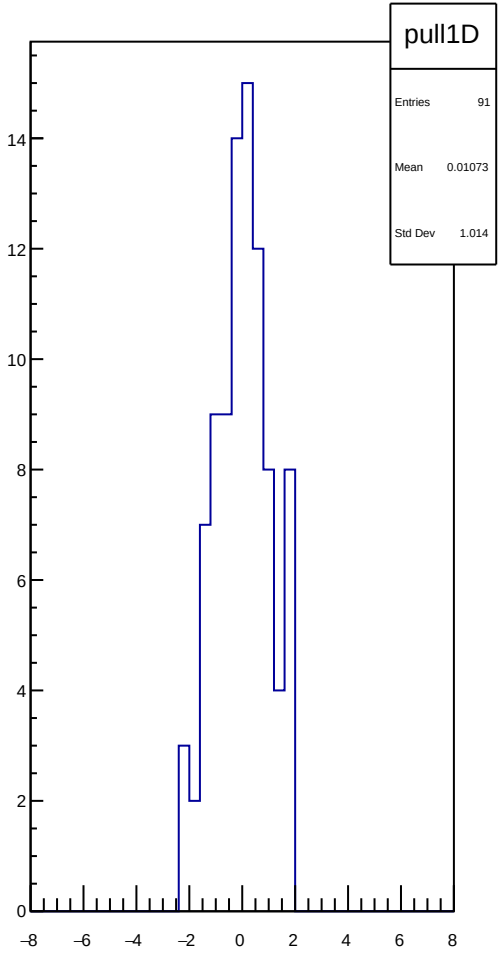

cor_asym_sam_1548_avg_rms vs run
χ² / ndf 4795 / 90
p0 100.3 ± 0.07597
140
130
120
110
100
90

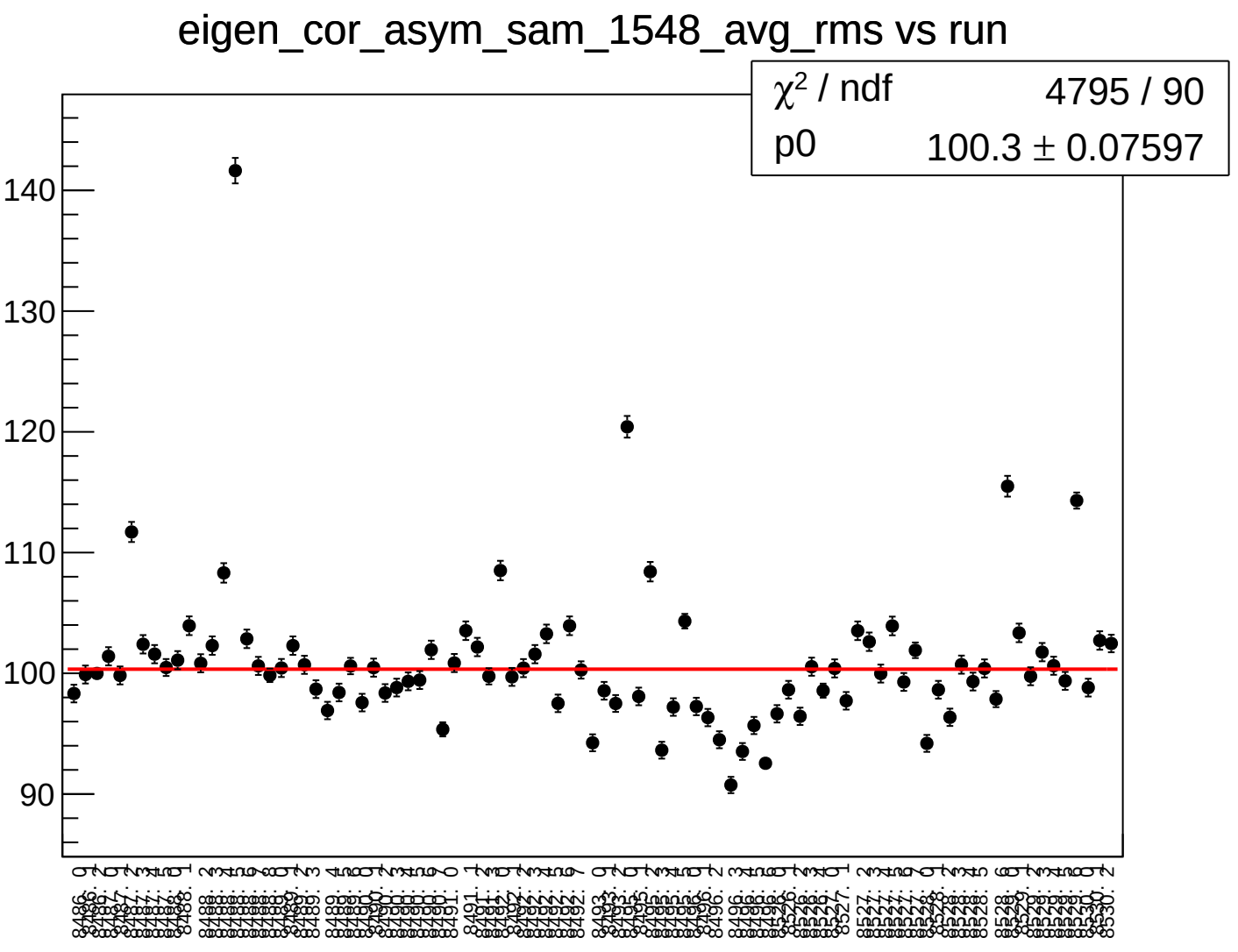

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 73.53 / 90
p0 −3605 ± 1171
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean 161.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

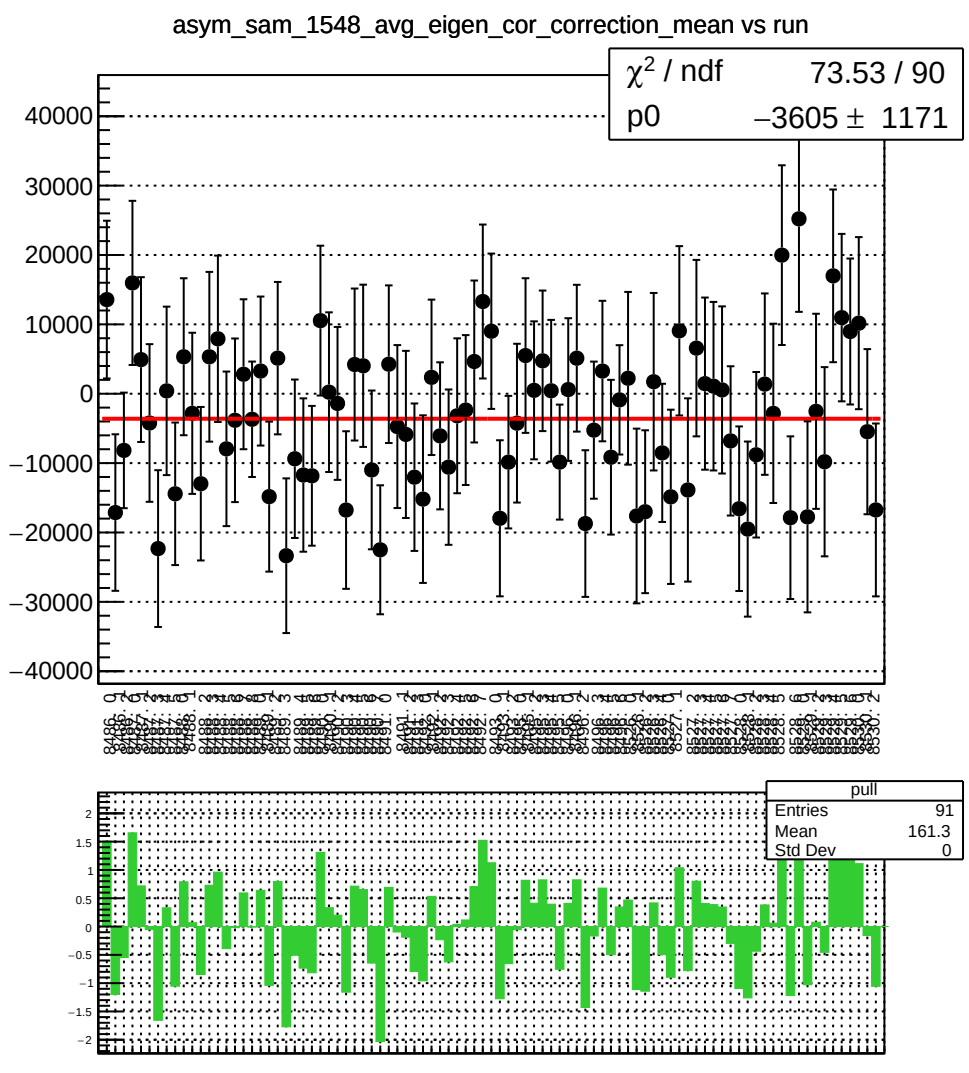

pull1D
Entries 91
Mean 0.01478
Std Dev 0.8988
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

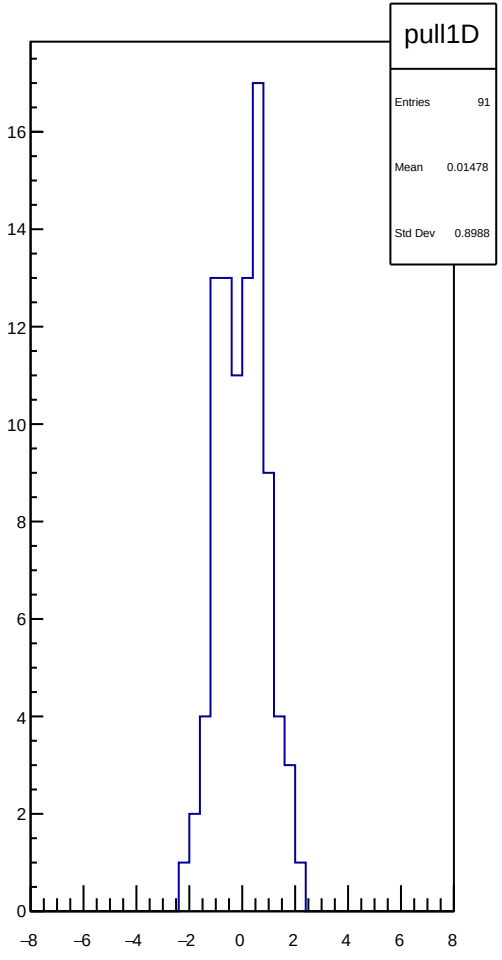

asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 1.069e+04 / 90
p0 1092 ± 0.8281
1350
1300
1250
1200
1150
1100
1050
1000
950
900

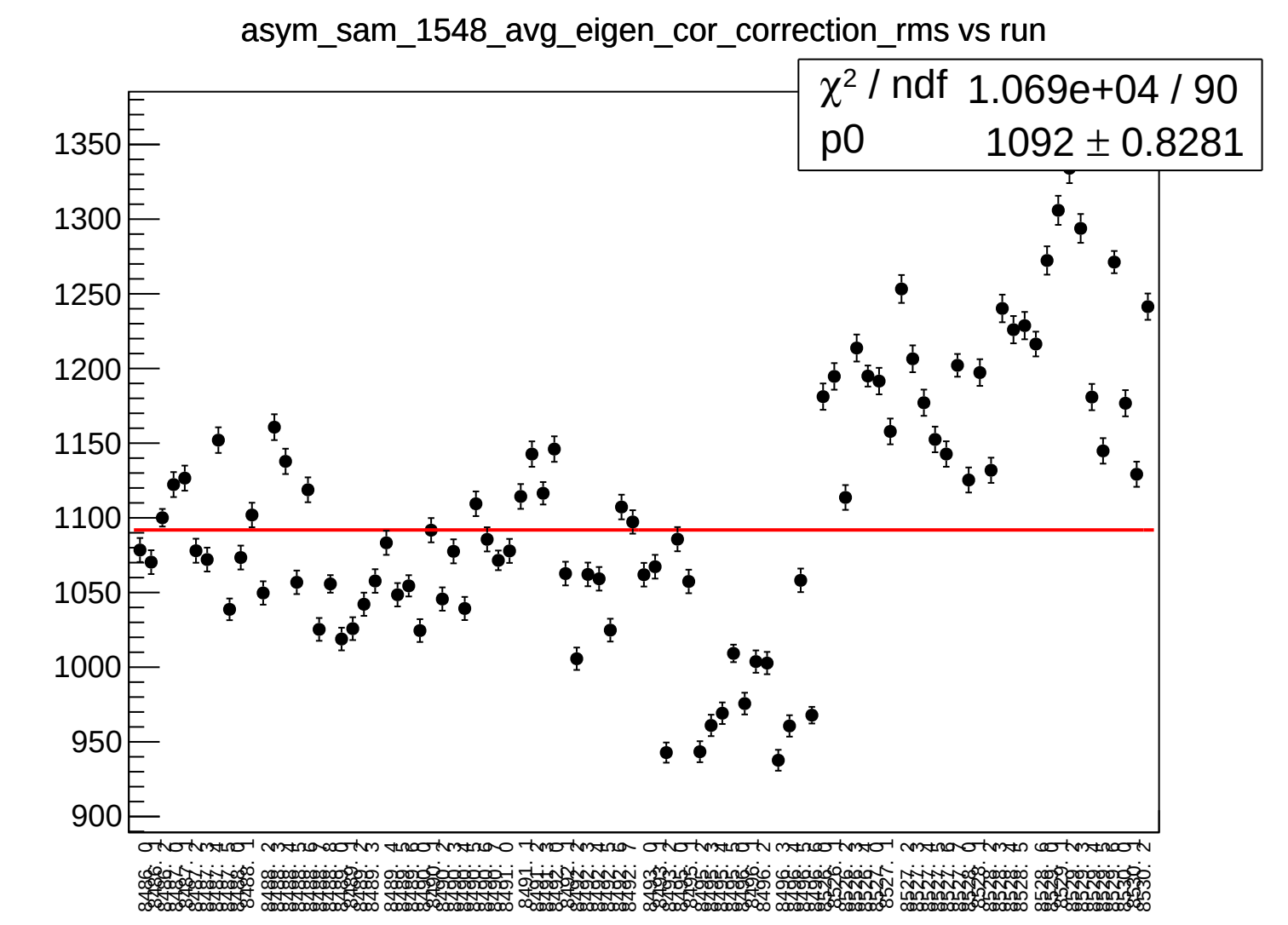

eigen_cor_asym_sam_1548_avg_mean vs run
χ^2 / ndf 93.61 / 90
p0 243.9 ± 107.4
pull
Entries 91
Mean −612
Std Dev 0

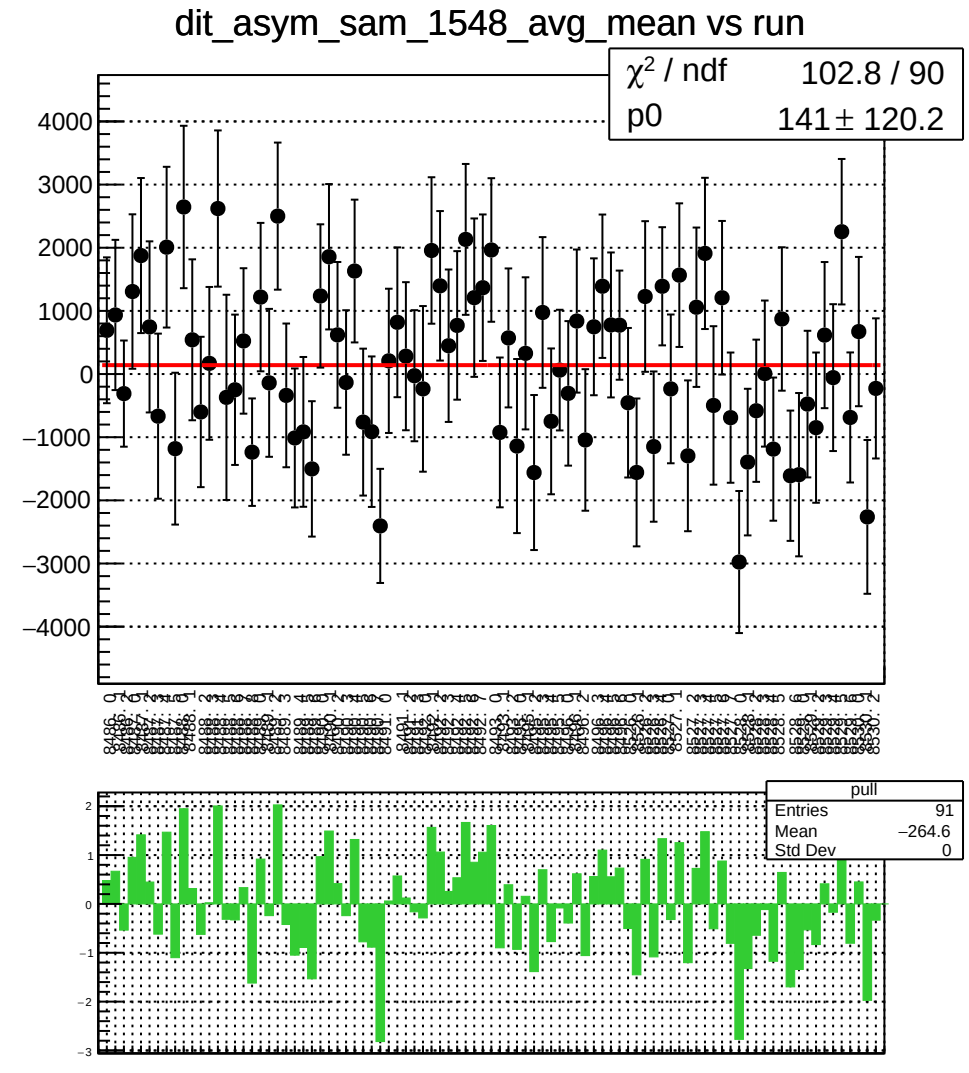

pull1D
Entries 91
Mean 0.01073
Std Dev 1.014

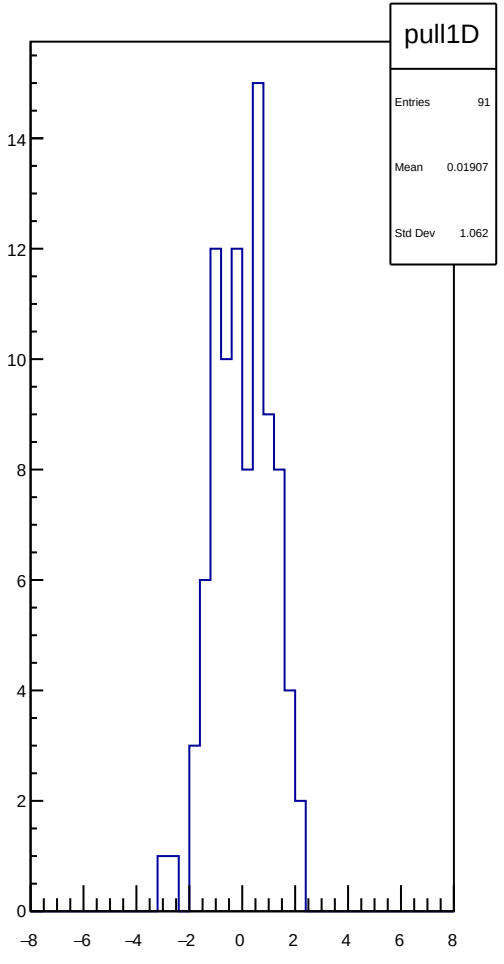

eigen_cor_asym_sam_1548_avg_rms vs run
χ² / ndf 4795 / 90
p0 100.3 ± 0.07597
140
130
120
110
100
90

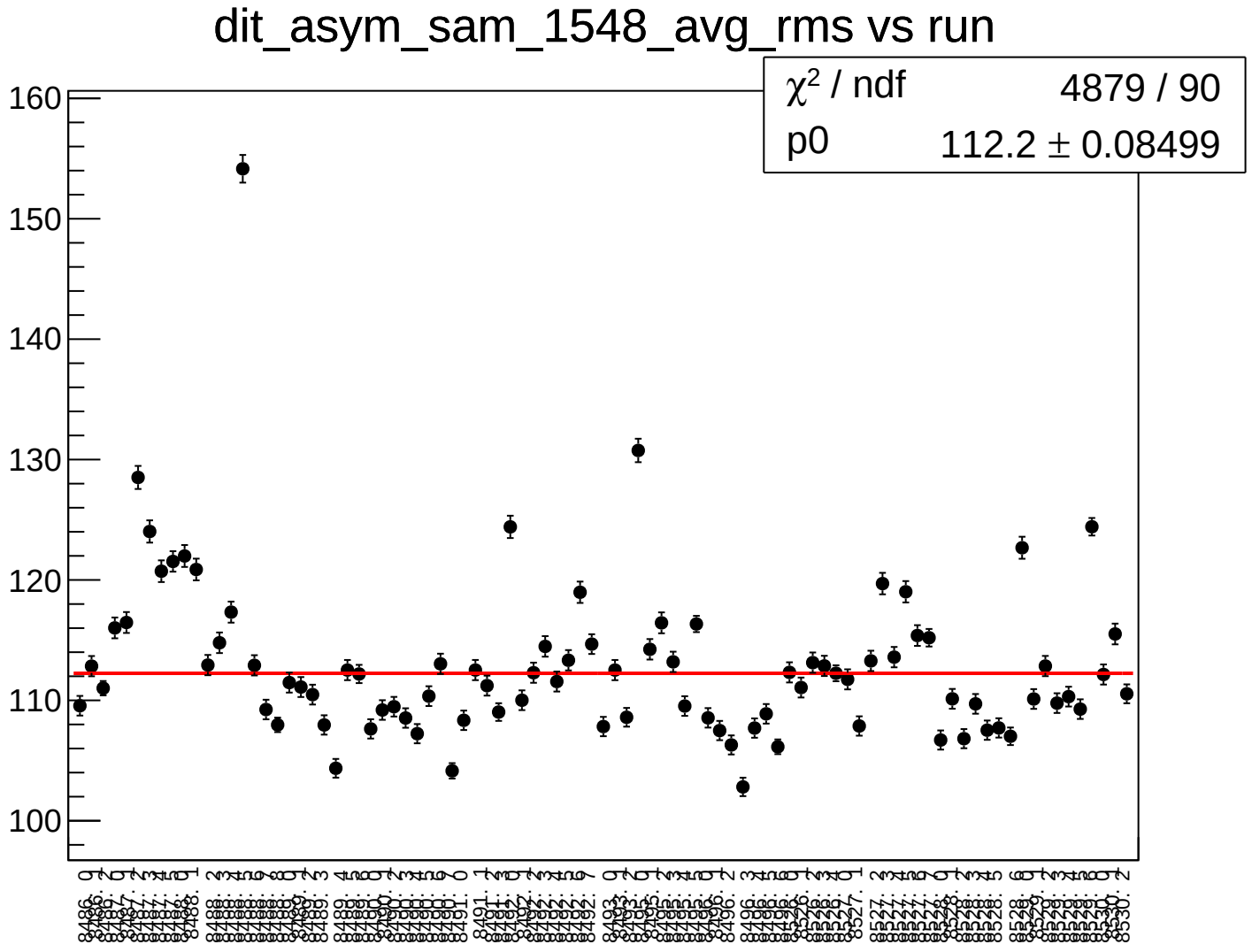

asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 73.53 / 90
p0 −3605 ± 1171
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean 161.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

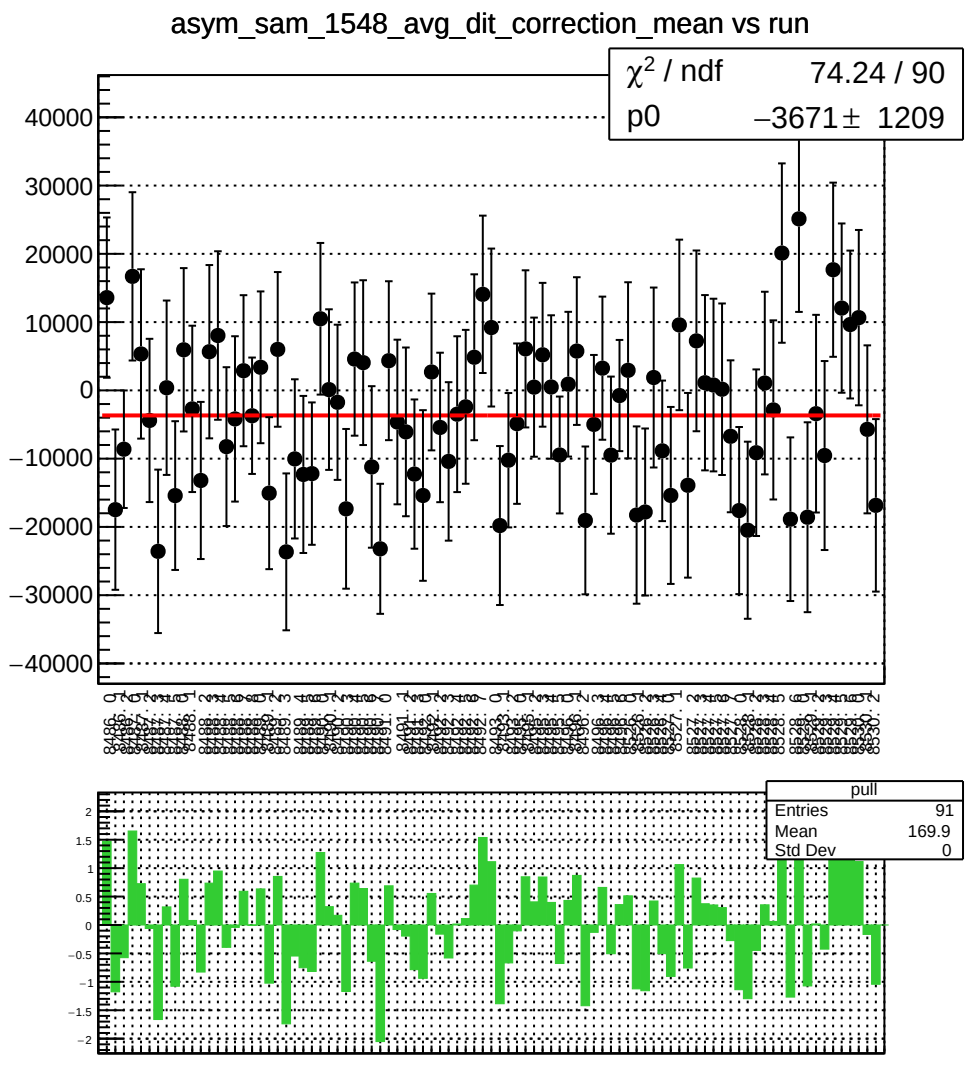

pull1D
Entries 91
Mean 0.01478
Std Dev 0.8988
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

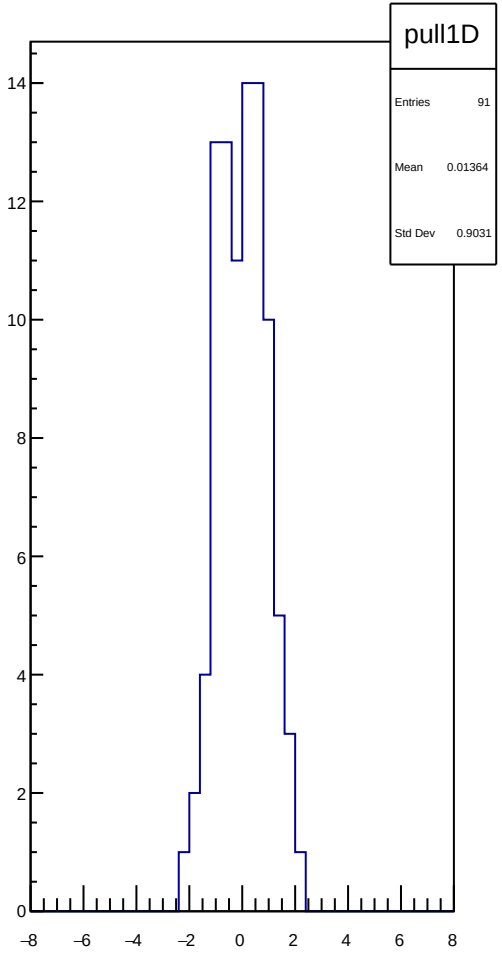

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.069e+04 / 90
p0 1092 ± 0.8281
1350
1300
1250
1200
1150
1100
1050
1000
950
900

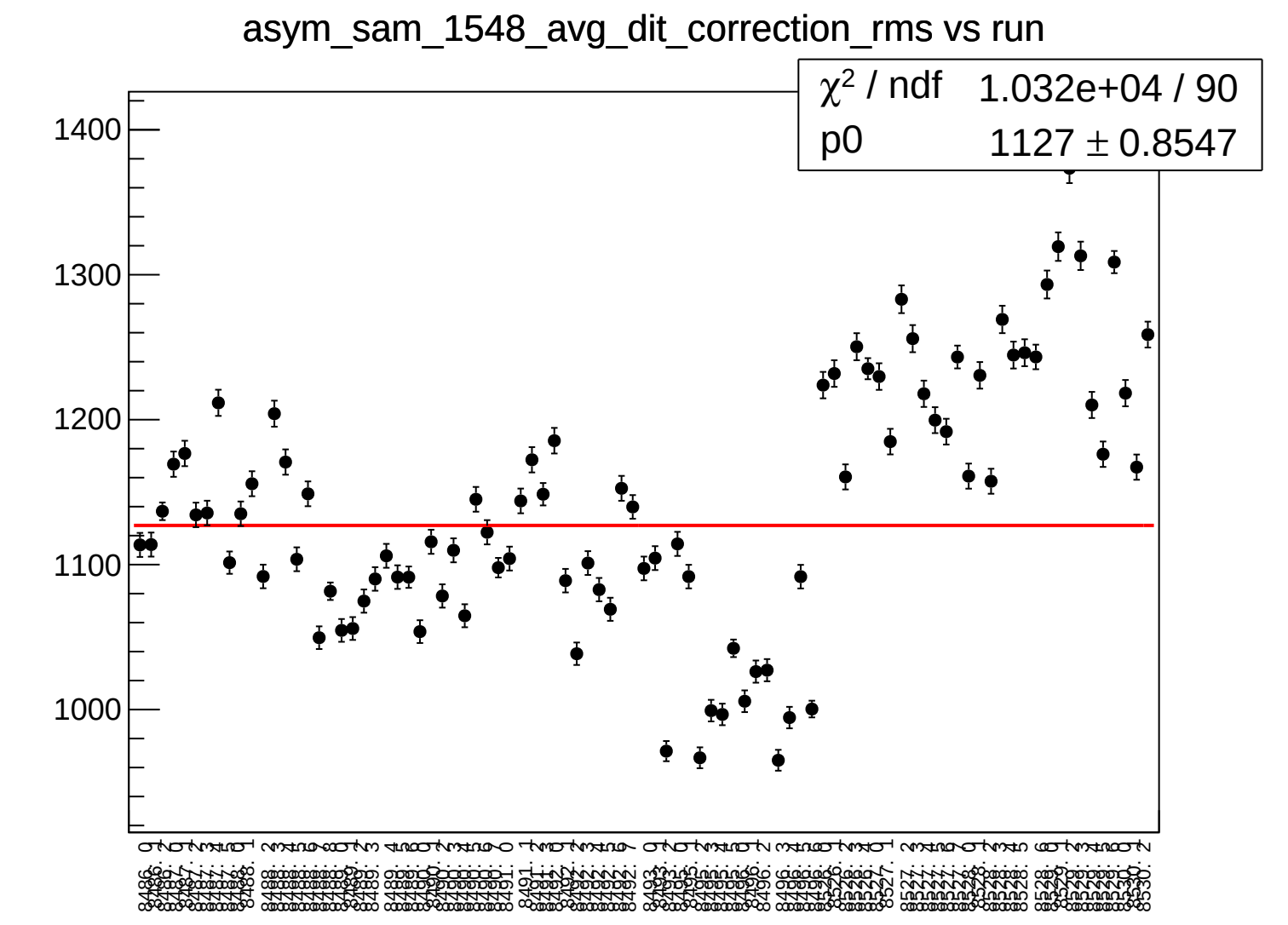

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 102.8 / 90
p0 141 ± 120.2
pull
Entries 91
Mean −264.6
Std Dev 0

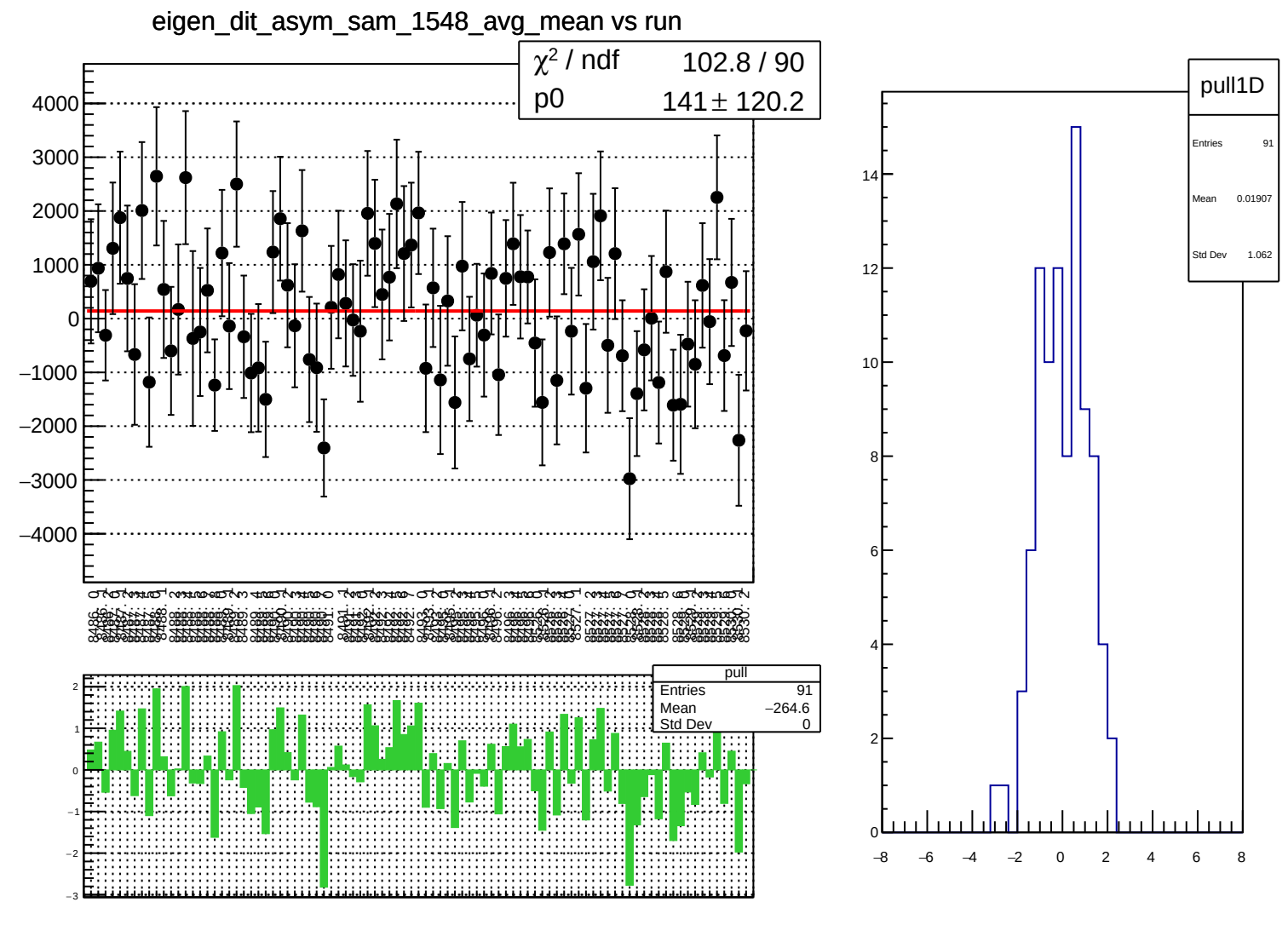

pull1D
Entries 91
Mean 0.01907
Std Dev 1.062

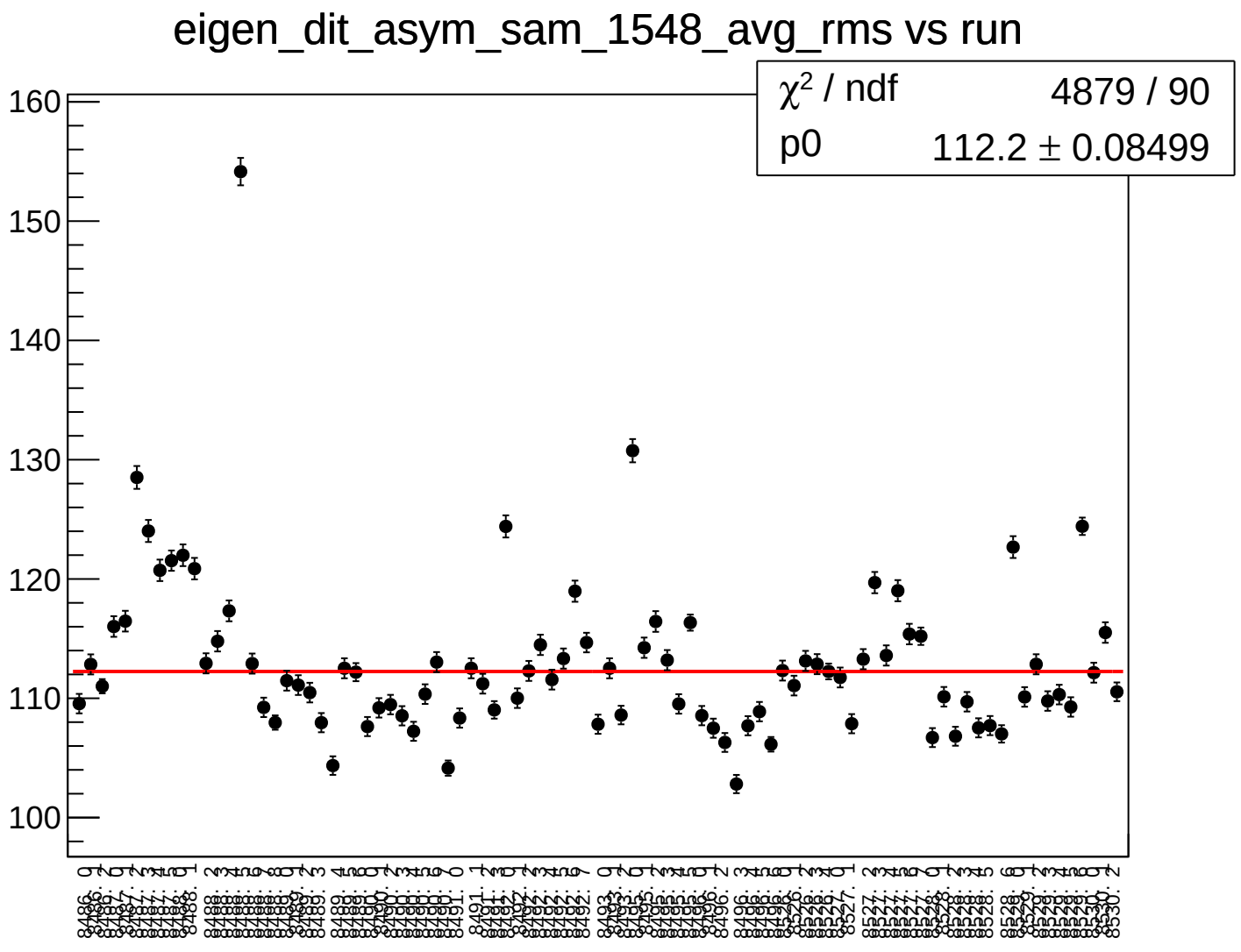

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 4879 / 90
p0 112.2 ± 0.08499
160
150
140
130
120
110
100

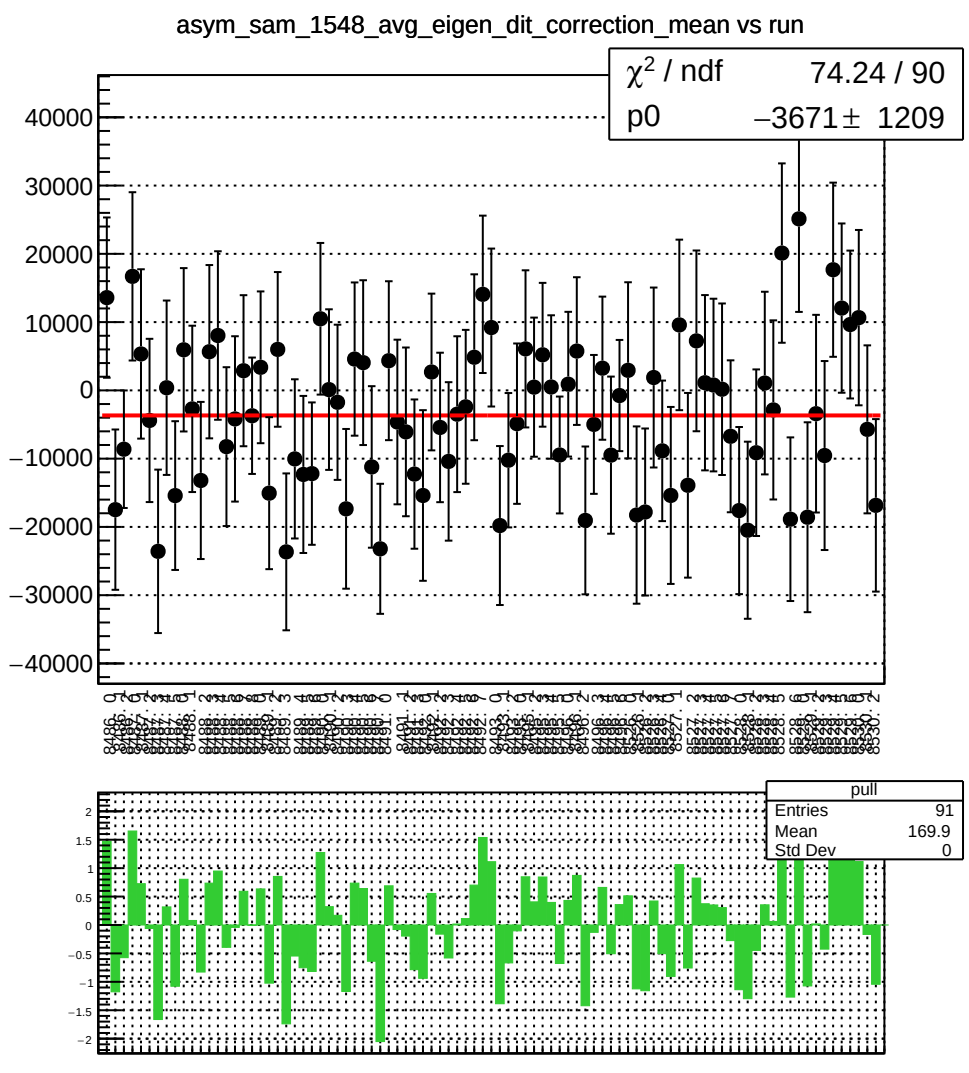

asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 74.24 / 90
p0 −3671 ± 1209
pull
Entries 91
Mean 169.9
Std Dev 0

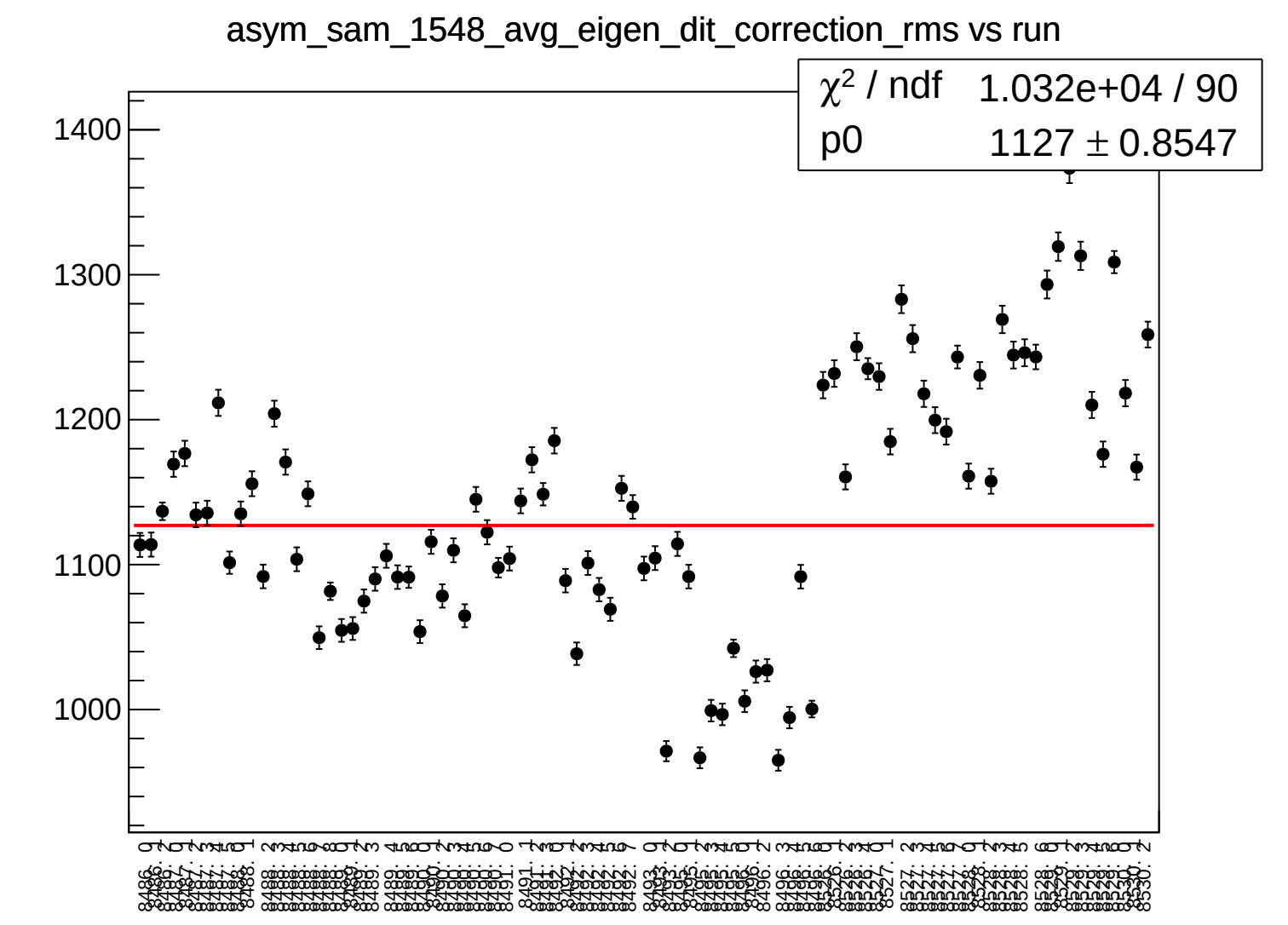

pull1D
Entries 91
Mean 0.01364
Std Dev 0.9031

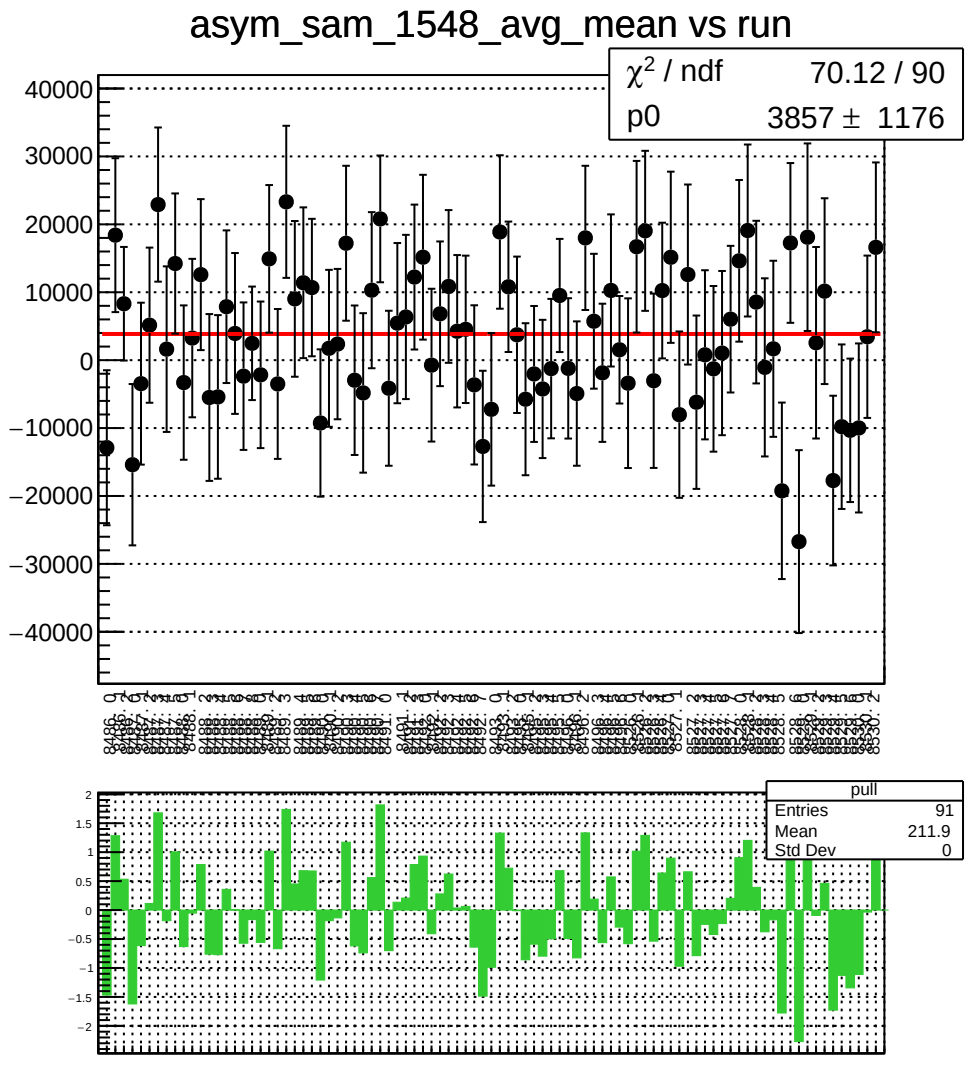

asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 1.032e+04 / 90
p0 1127 ± 0.8547
1400
1300
1200
1100
1000

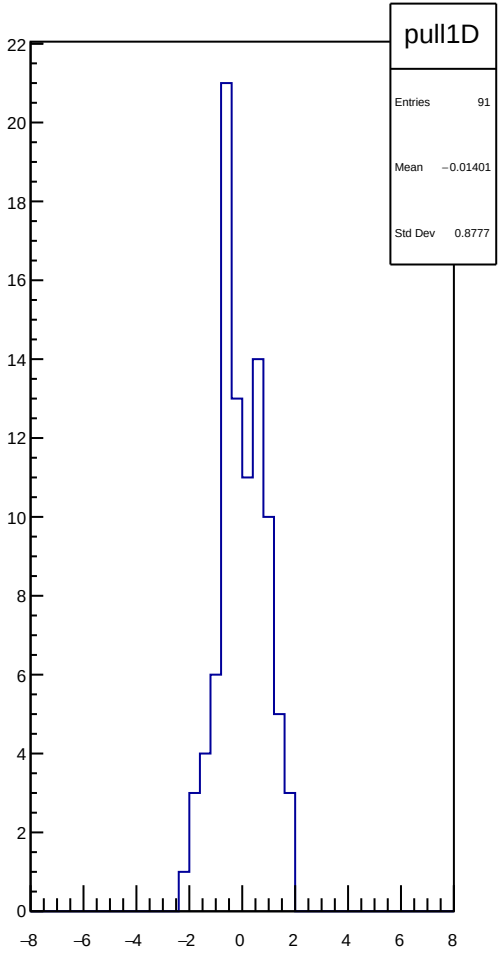

eigen_dit_asym_sam_1548_avg_mean vs run
χ² / ndf 102.8 / 90
p0 141 ± 120.2
pull
Entries 91
Mean −264.6
Std Dev 0
pull1D
Entries 91
Mean 0.01907
Std Dev 1.062

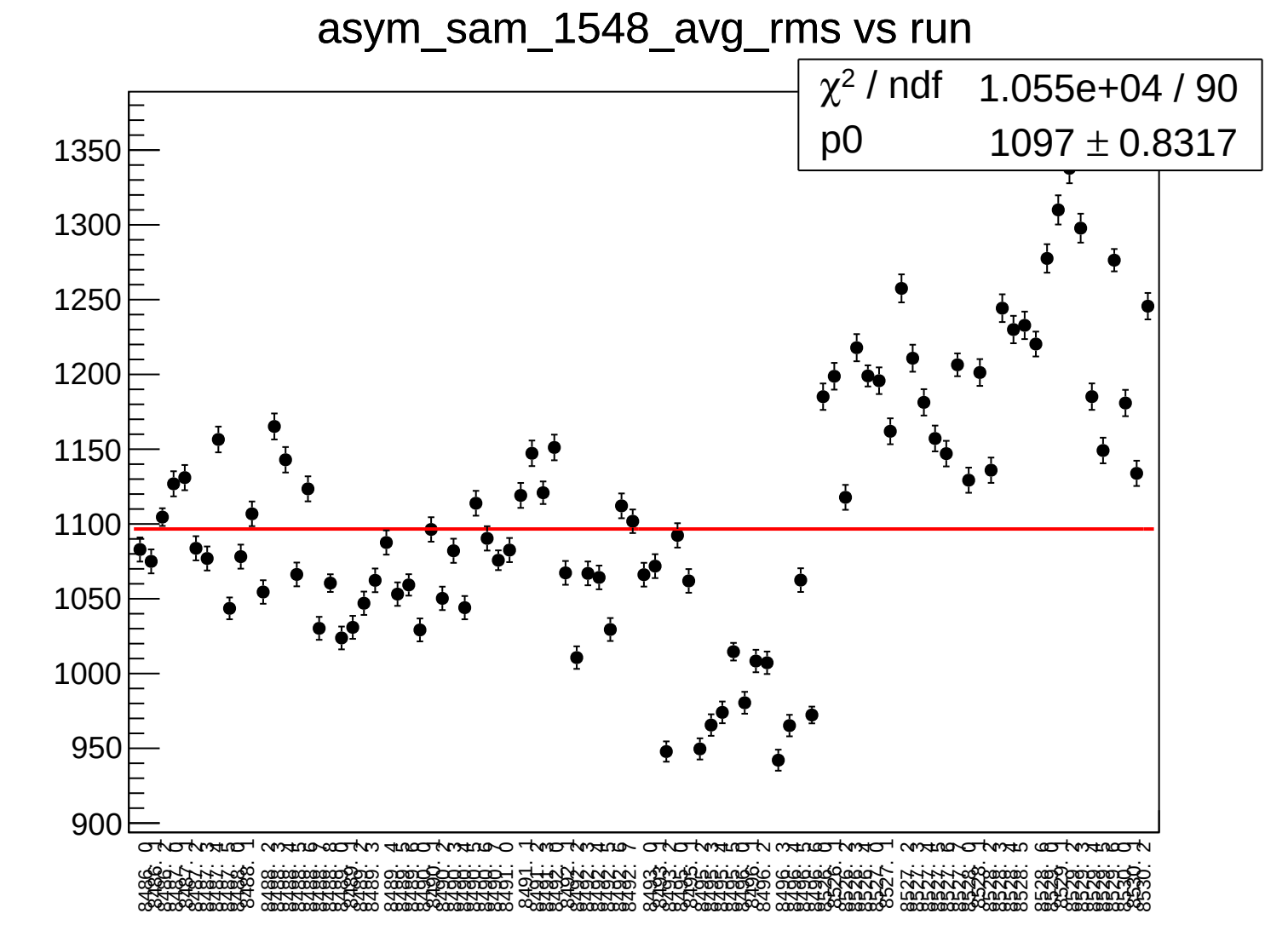

eigen_dit_asym_sam_1548_avg_rms vs run
χ² / ndf 4879 / 90
p0 112.2 ± 0.08499
160
150
140
130
120
110
100

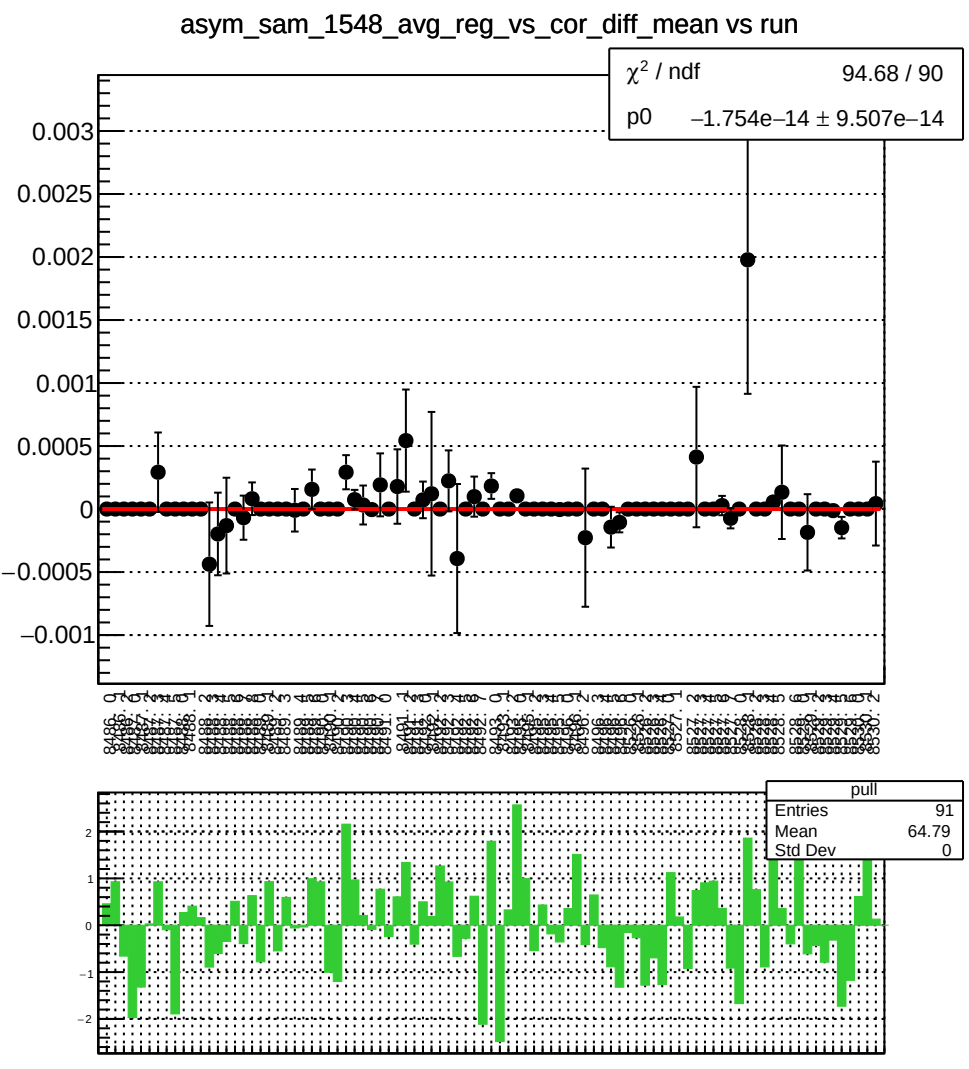

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 74.24 / 90
p0 −3671 ± 1209
pull
Entries 91
Mean 169.9
Std Dev 0
pull1D
Entries 91
Mean 0.01364
Std Dev 0.9031

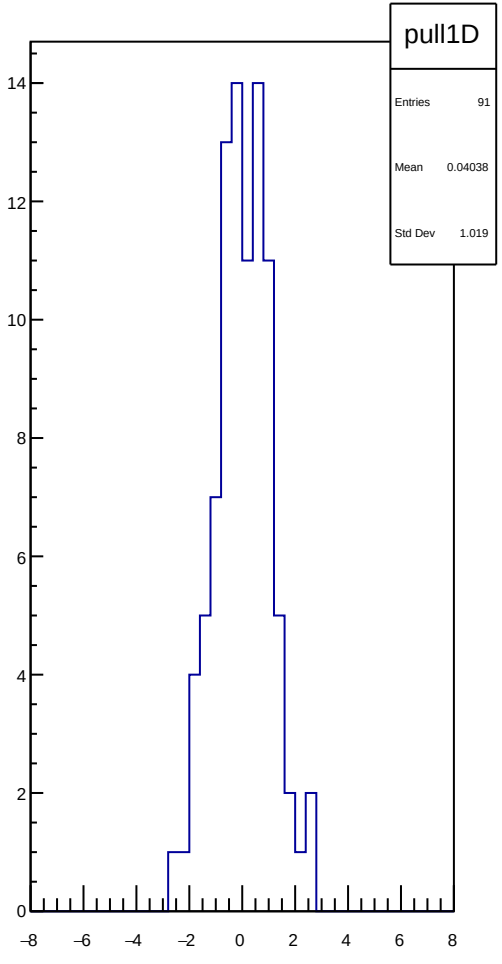

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.032e+04 / 90
p0 1127 ± 0.8547
1400
1300
1200
1100
1000

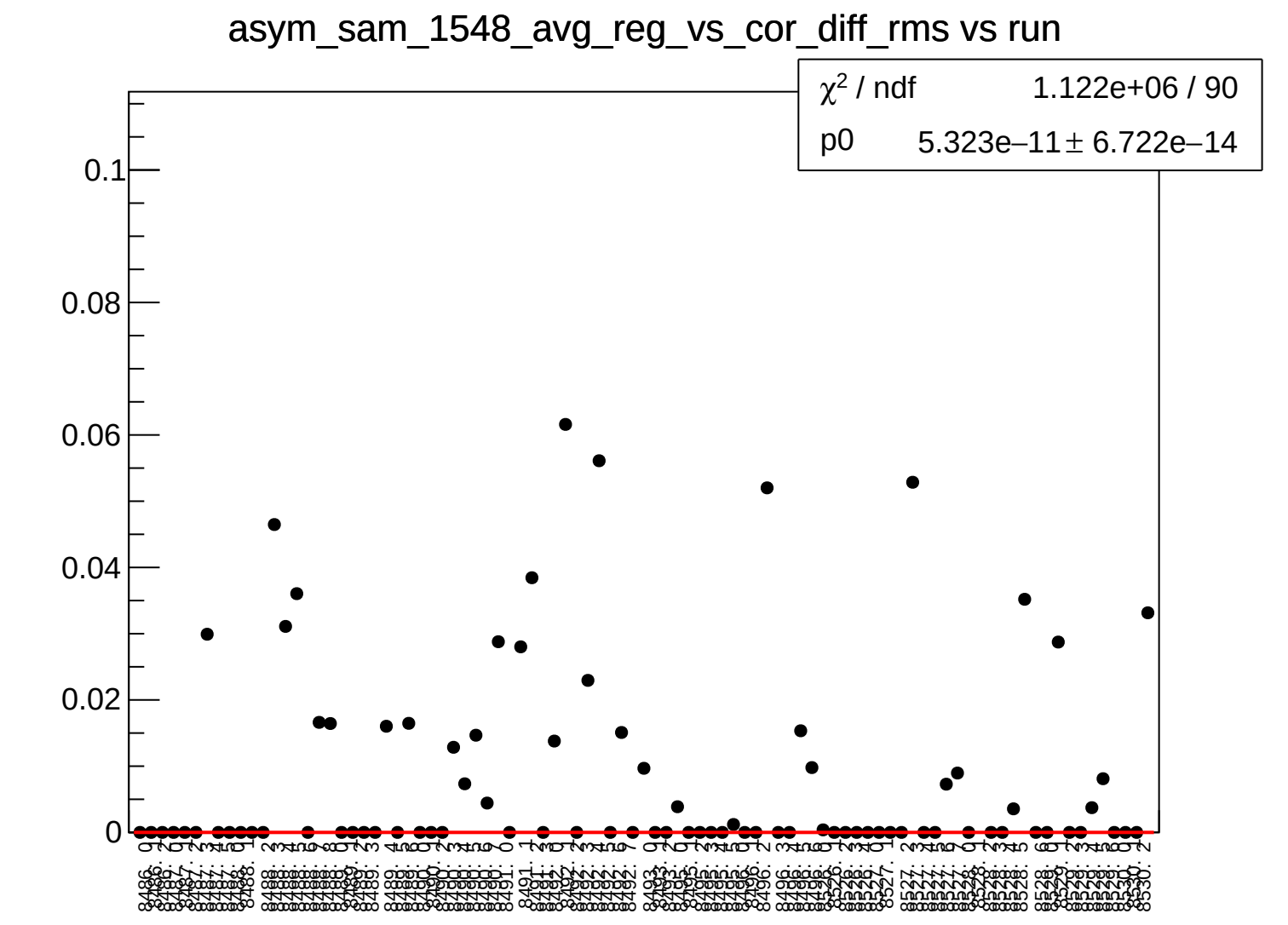

asym_sam_1548_avg_mean vs run
χ² / ndf 70.12 / 90
p0 3857 ± 1176
pull
Entries 91
Mean 211.9
Std Dev 0

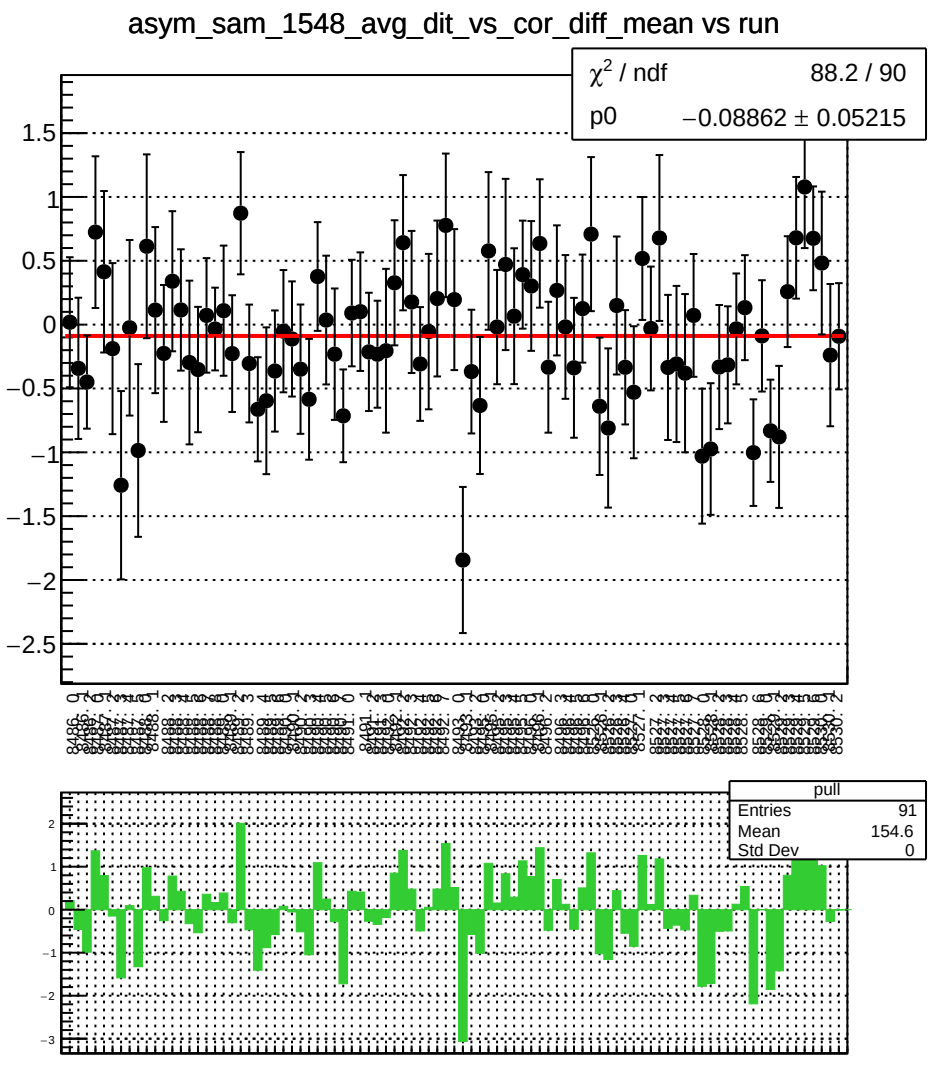

pull1D
Entries 91
Mean −0.01401
Std Dev 0.8777

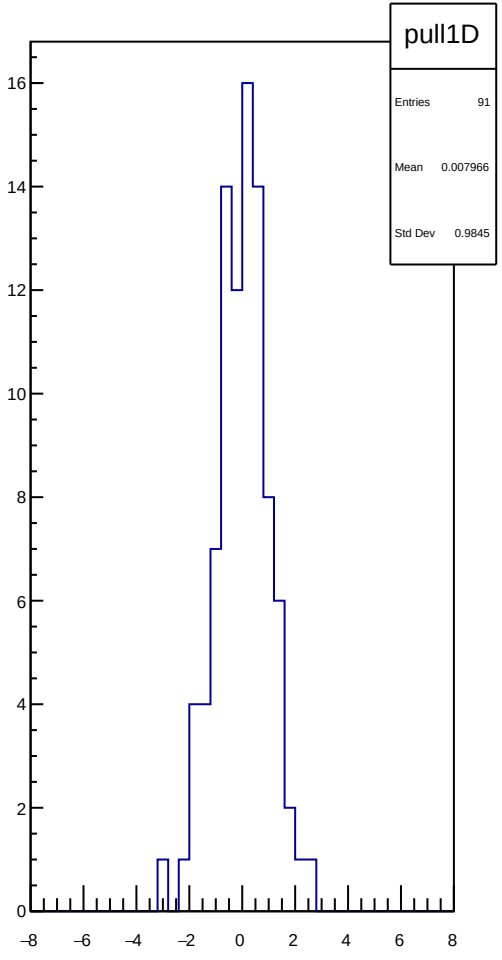

asym_sam_1548_avg_rms vs run
χ² / ndf 1.055e+04 / 90
p0 1097 ± 0.8317
1350
1300
1250
1200
1150
1100
1050
1000
950
900

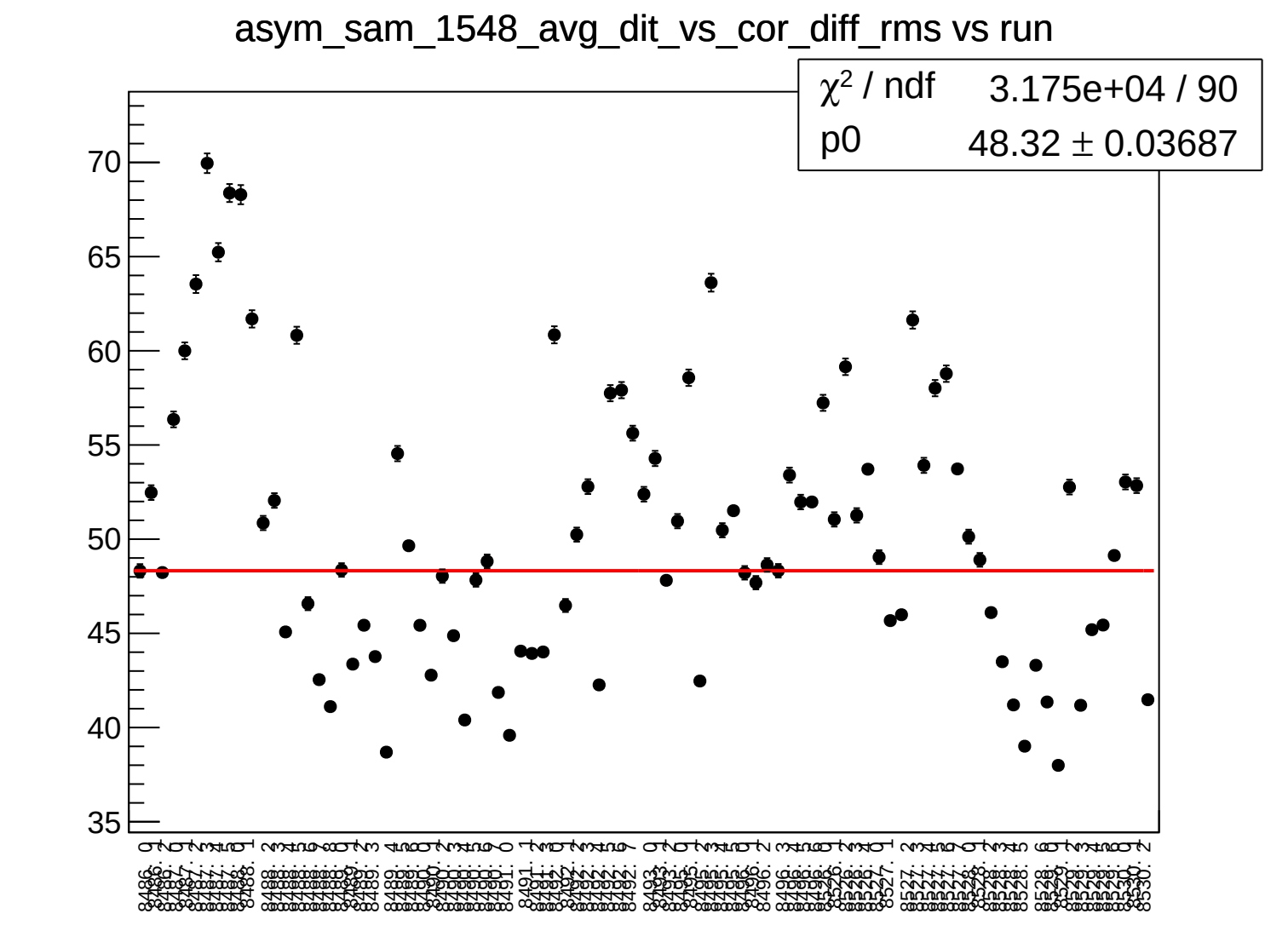

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 94.68 / 90
p0 −1.754e−14 ± 9.507e−14
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 91
Mean 64.79
Std Dev 0
2
1
0
−1
−2

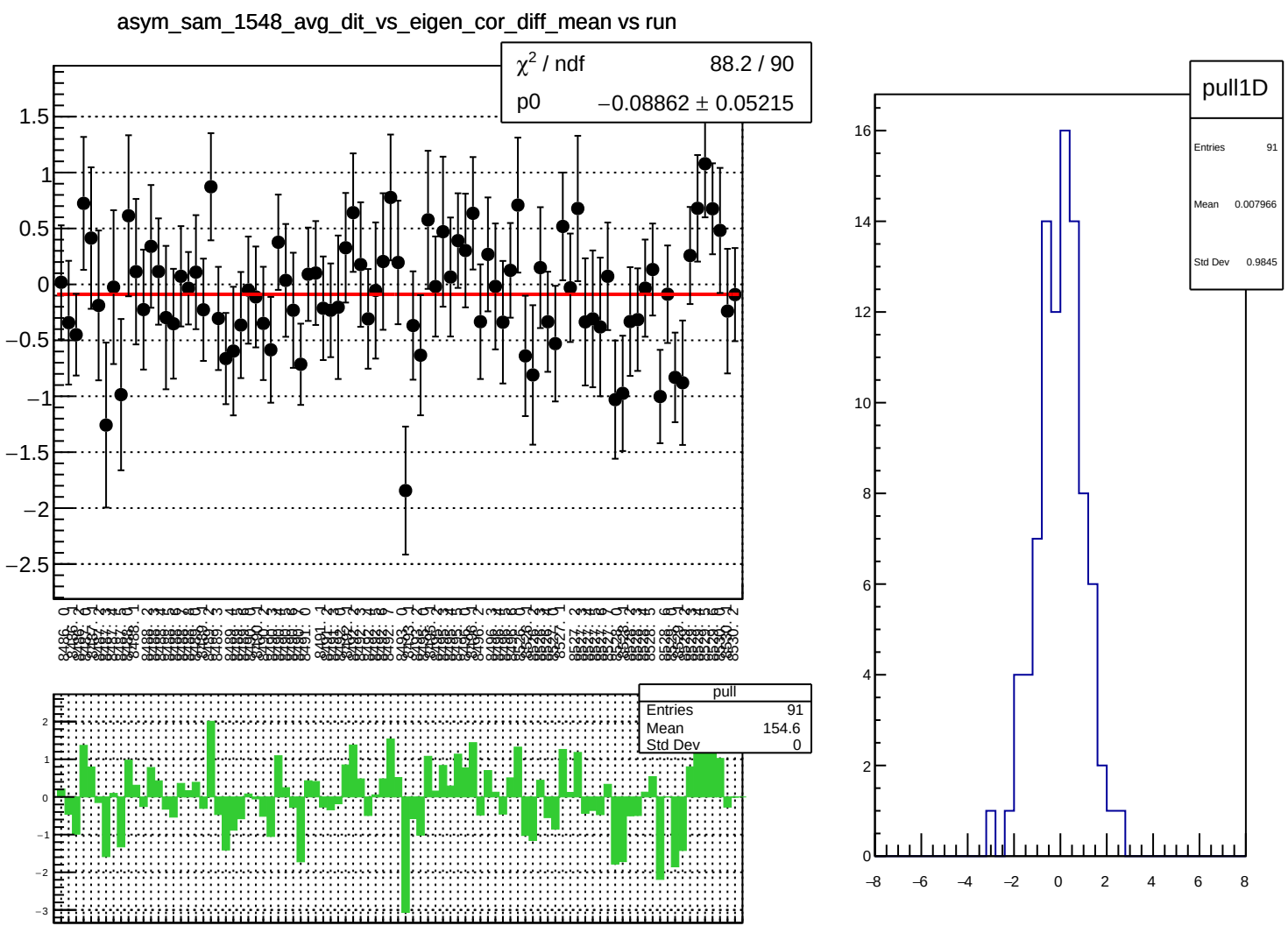

pull1D
Entries 91
Mean 0.04038
Std Dev 1.019
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

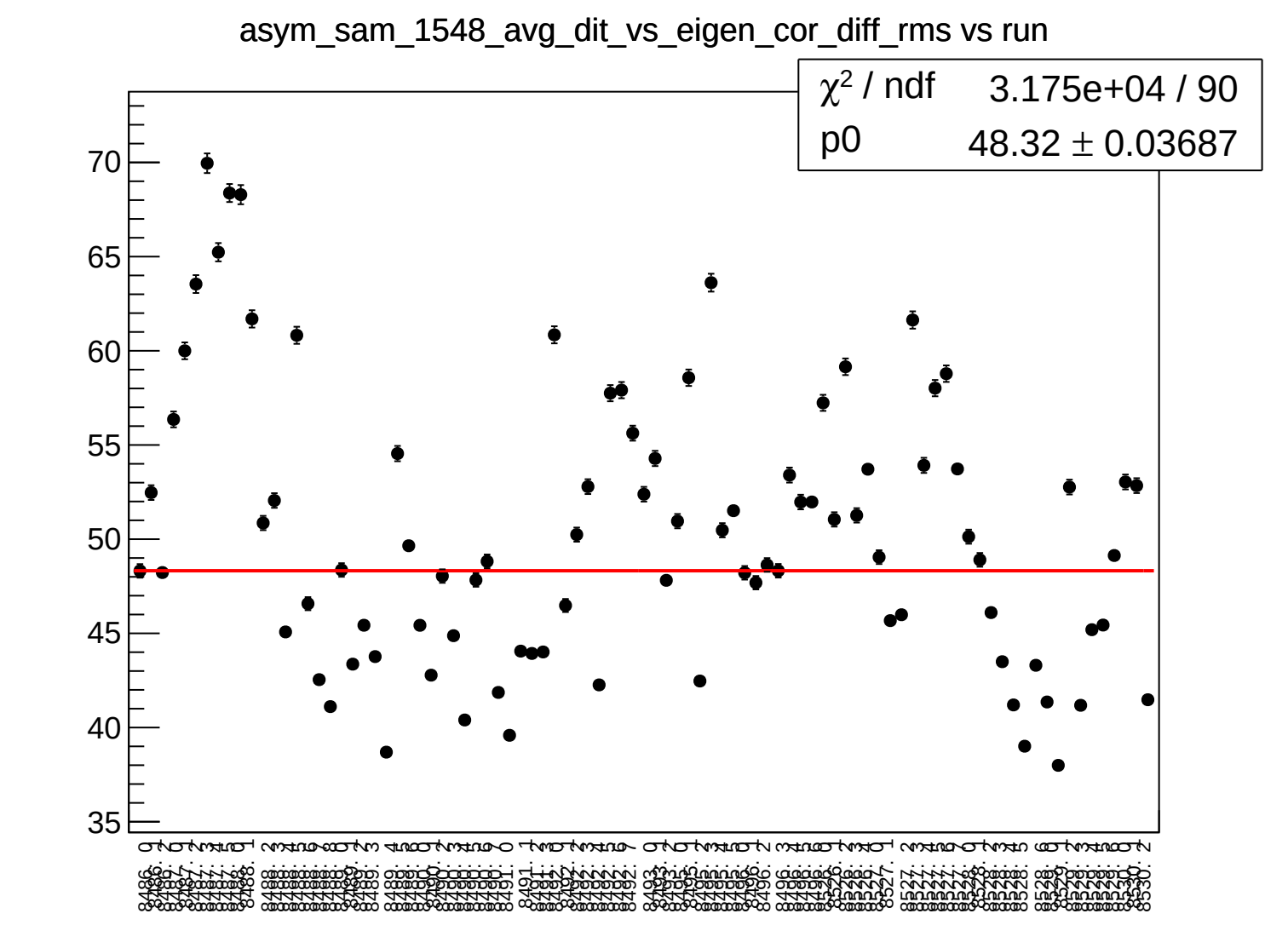

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.122e+06 / 90
p0 5.323e−11 ± 6.722e−14
0.1
0.08
0.06
0.04
0.02
0

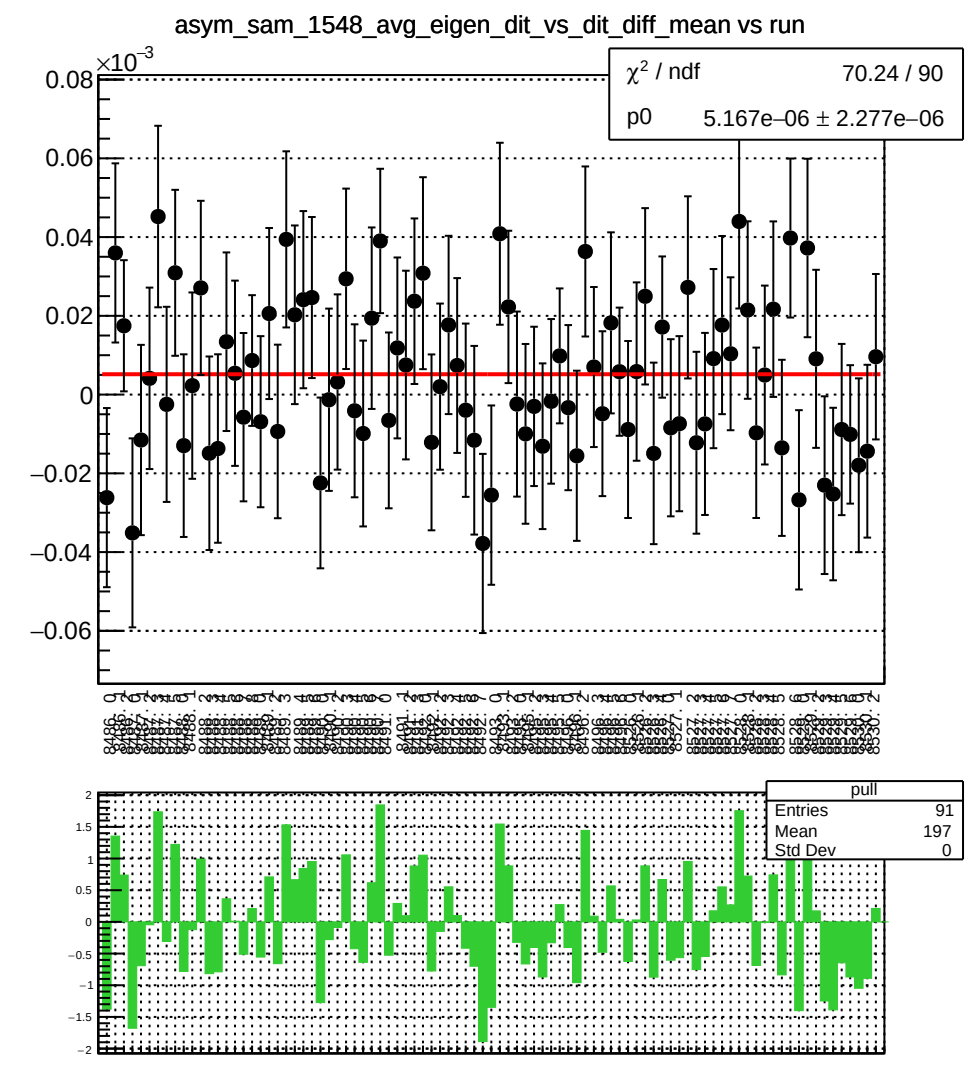

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 88.2 / 90
p0 −0.08862 ± 0.05215
pull
Entries 91
Mean 154.6
Std Dev 0

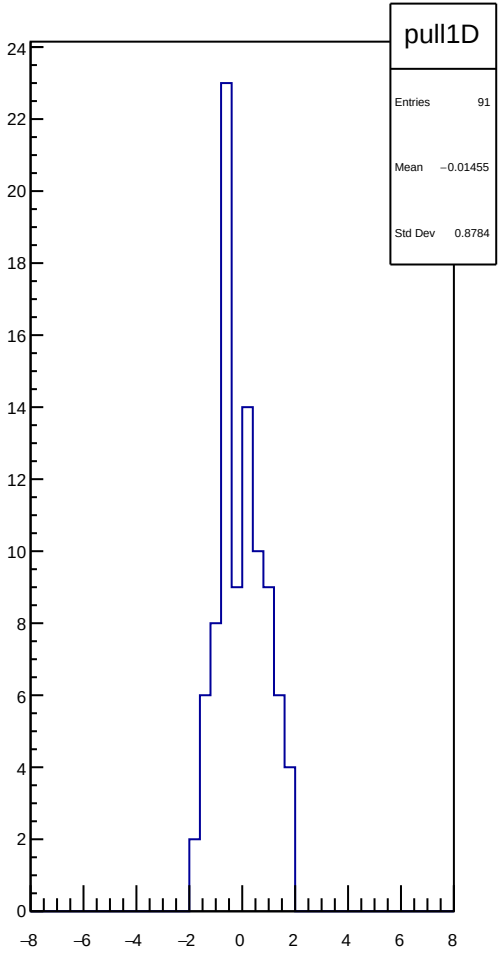

pull1D
Entries 91
Mean 0.007966
Std Dev 0.9845

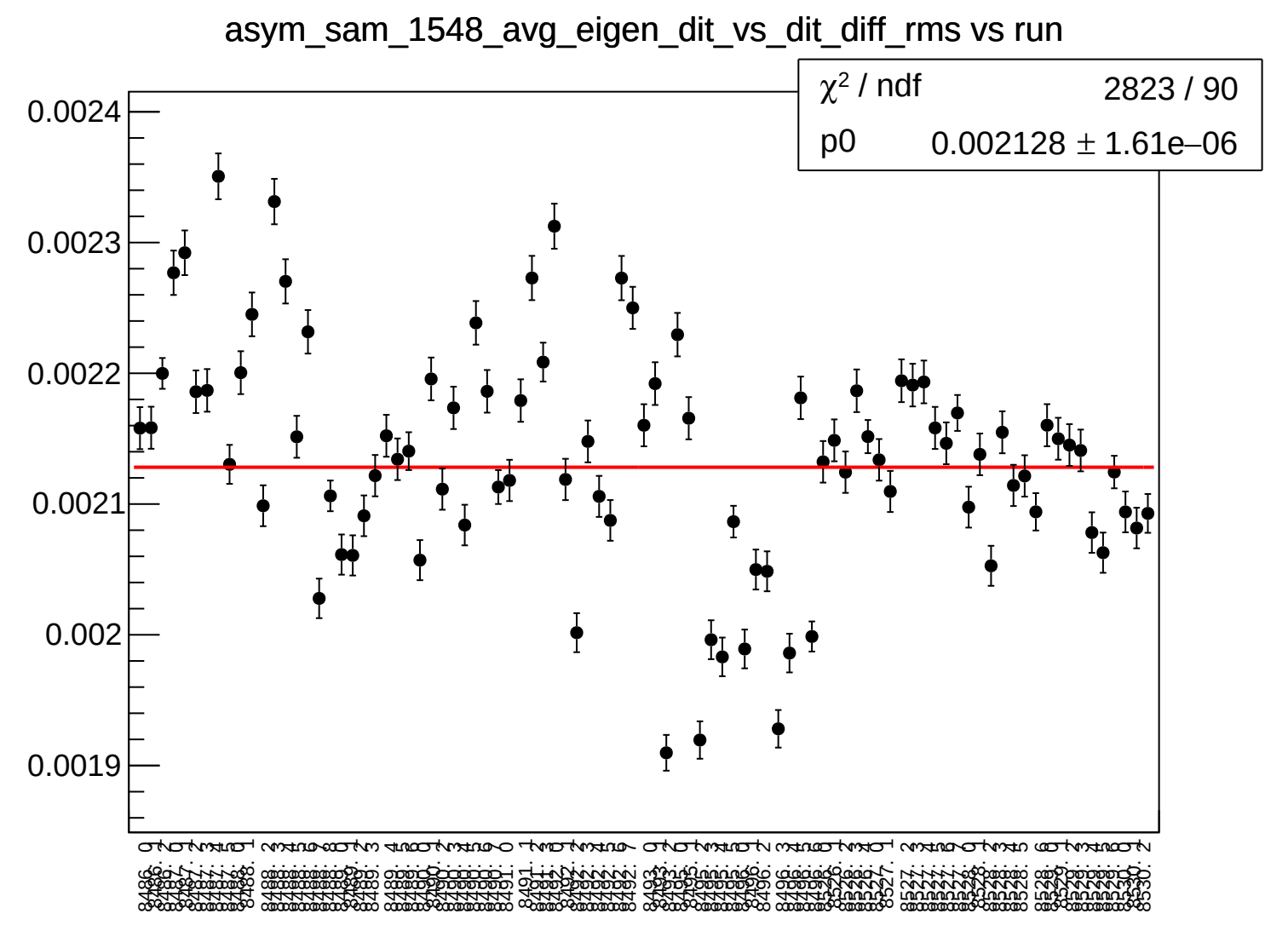

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.175e+04 / 90
p0 48.32 ± 0.03687
70
65
60
55
50
45
40
35

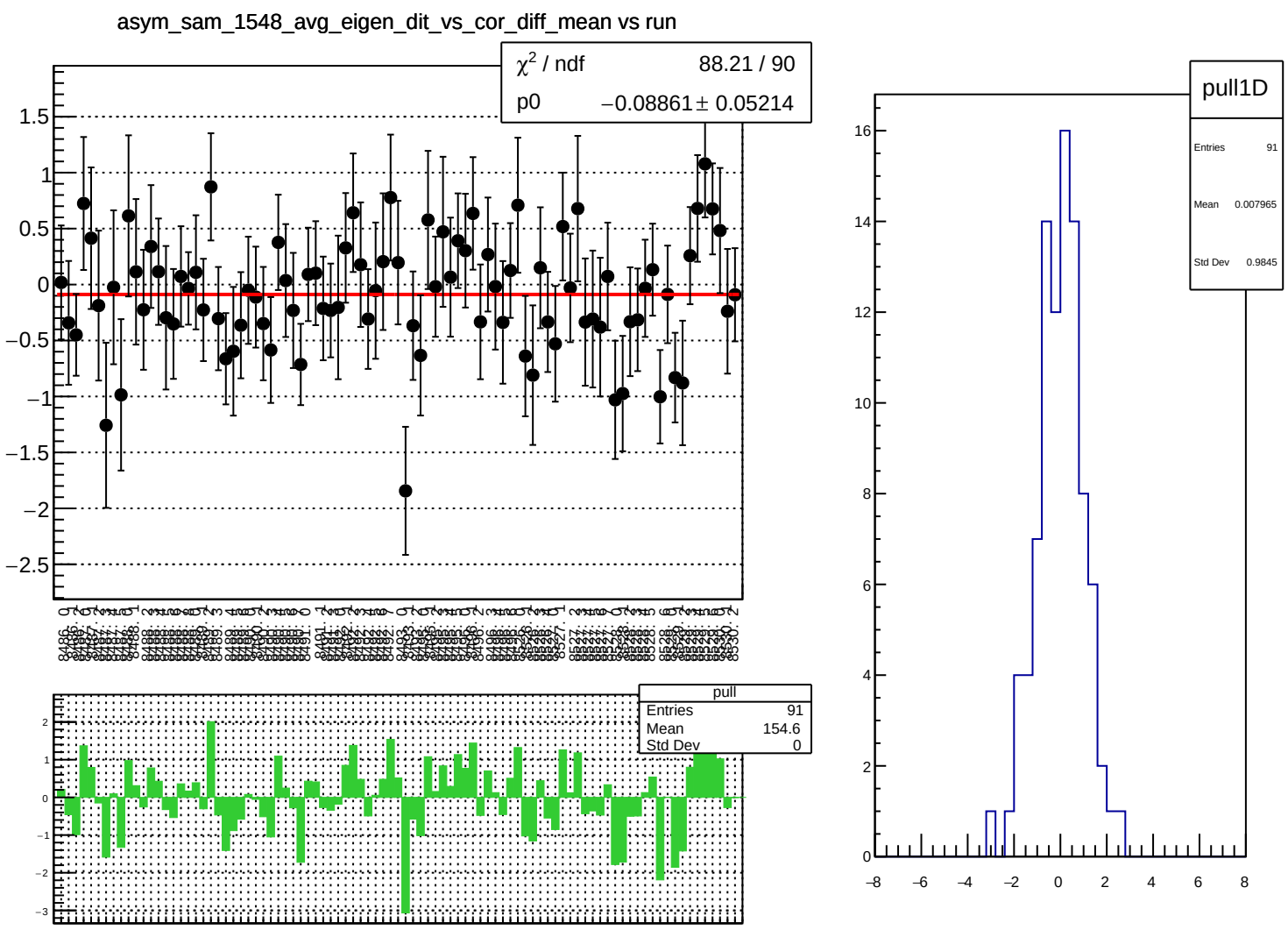

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.2 / 90
p0 −0.08862 ± 0.05215
pull
Entries 91
Mean 154.6
Std Dev 0
pull1D
Entries 91
Mean 0.007966
Std Dev 0.9845

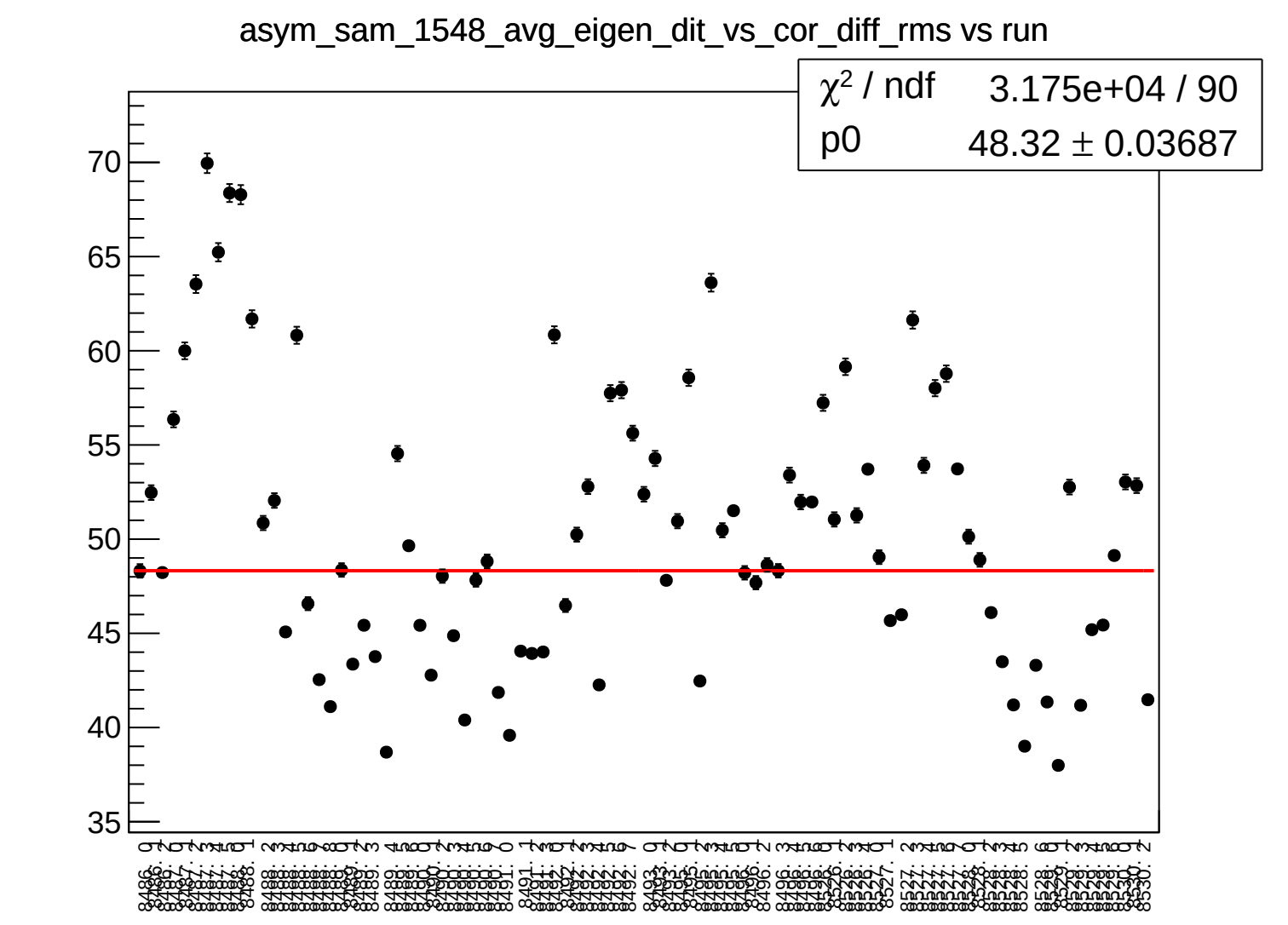

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 3.175e+04 / 90
p0 48.32 ± 0.03687
70
65
60
55
50
45
40
35

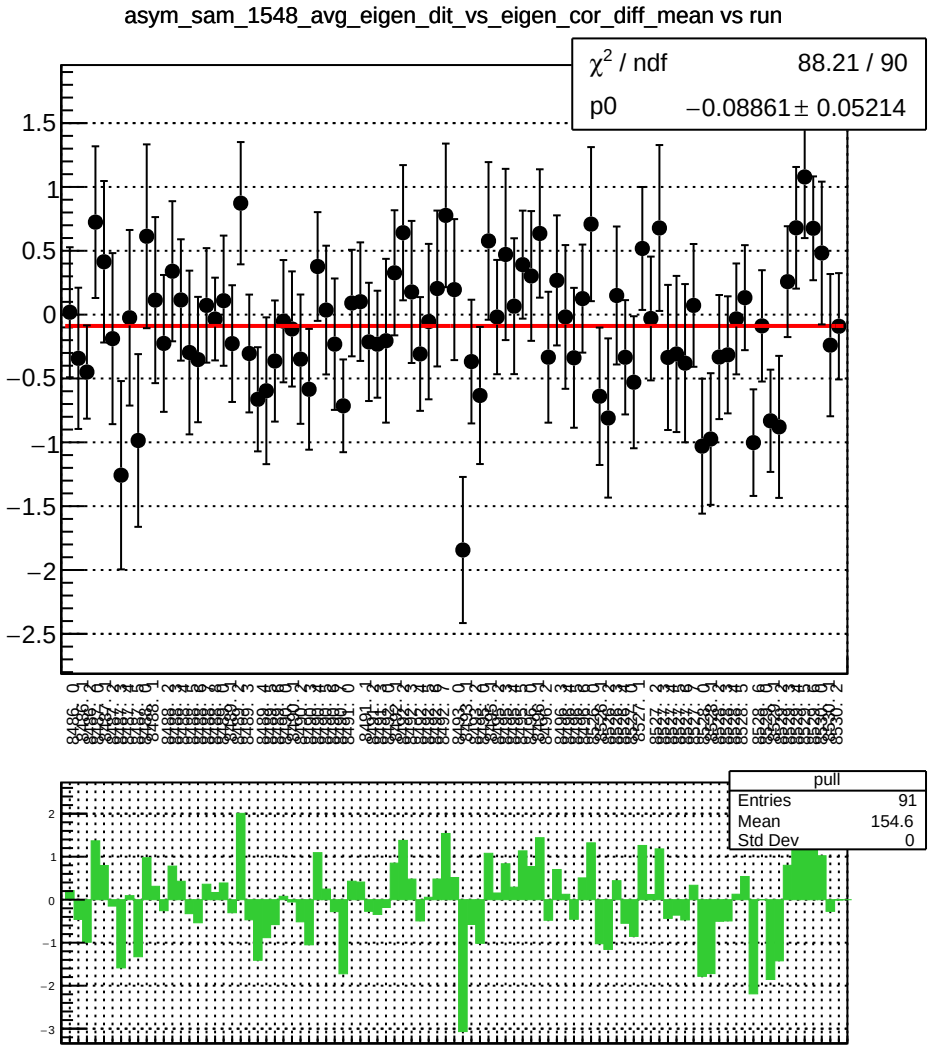

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 70.24 / 90
p0 5.167e−06 ± 2.277e−06
pull
Entries 91
Mean 197
Std Dev 0

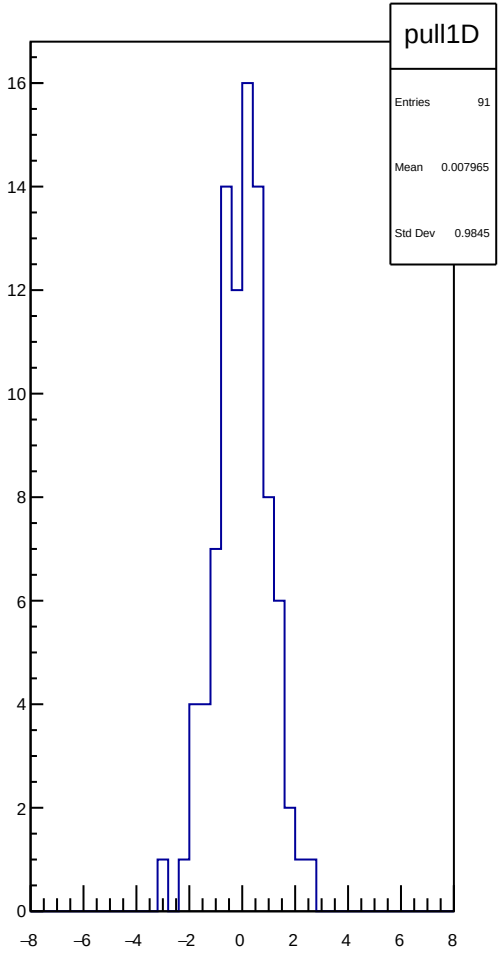

pull1D
Entries 91
Mean −0.01455
Std Dev 0.8784

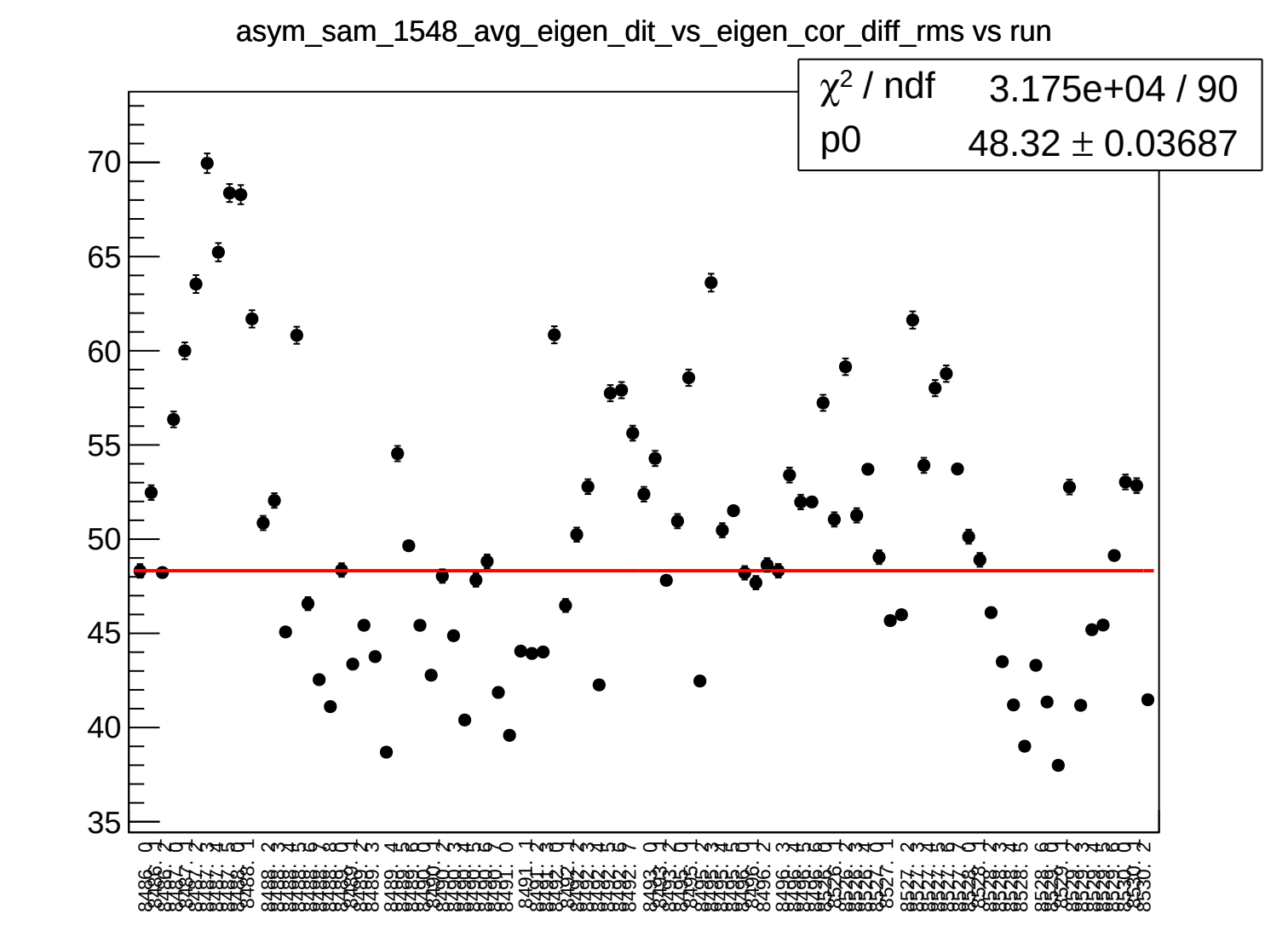

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2823 / 90
p0 0.002128 ± 1.61e−06
0.0024
0.0023
0.0022
0.0021
0.002
0.0019

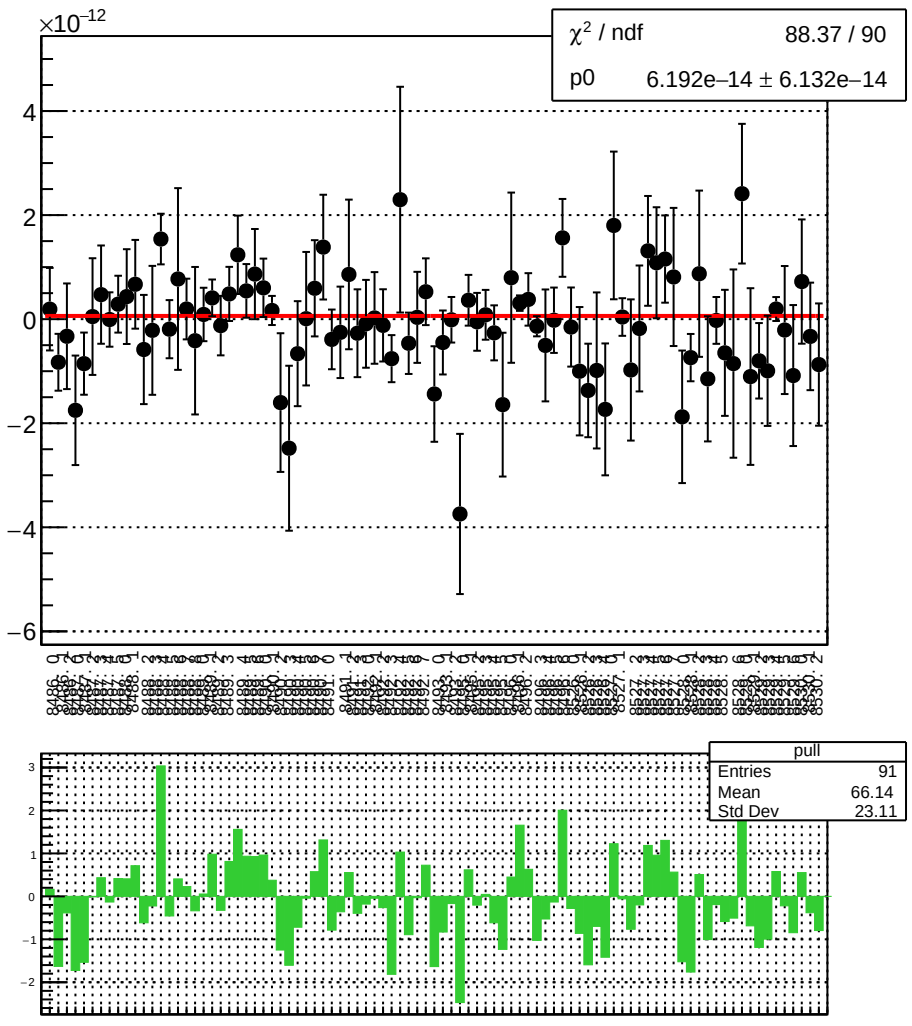

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.21 / 90
p0 −0.08861 ± 0.05214
pull
Entries 91
Mean 154.6
Std Dev 0
pull1D
Entries 91
Mean 0.007965
Std Dev 0.9845

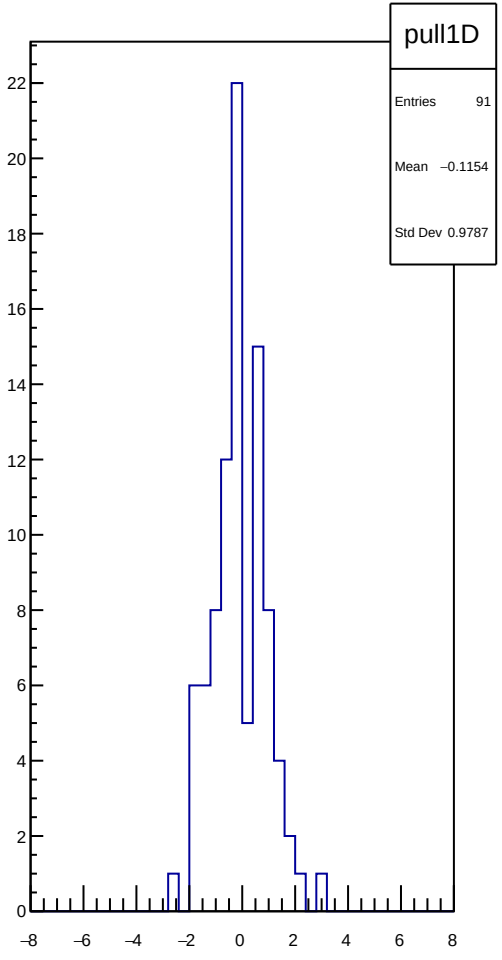

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.175e+04 / 90
p0 48.32 ± 0.03687
70
65
60
55
50
45
40
35

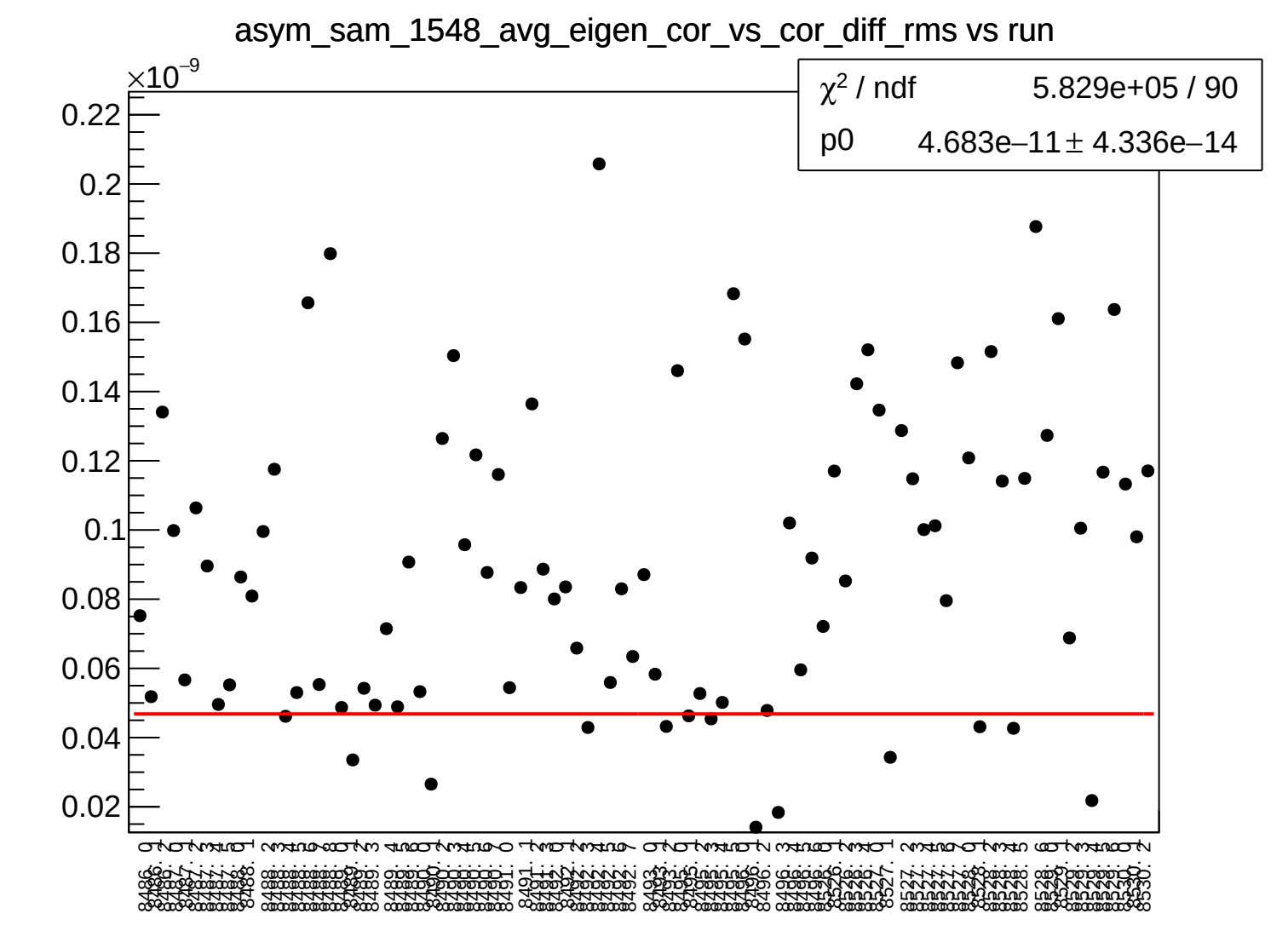

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.21 / 90
p0 −0.08861 ± 0.05214
pull
Entries 91
Mean 154.6
Std Dev 0

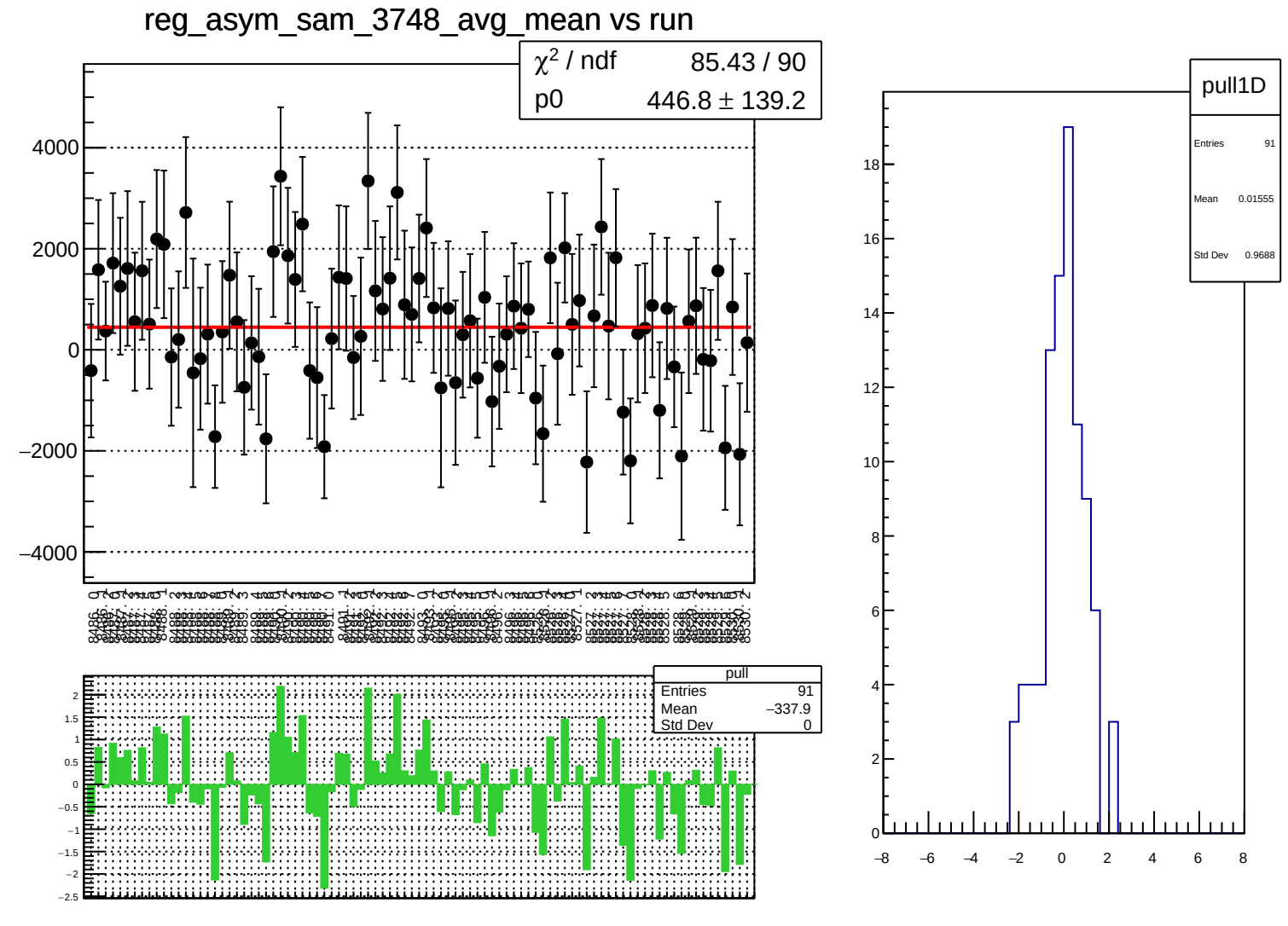

pull1D
Entries 91
Mean 0.007965
Std Dev 0.9845

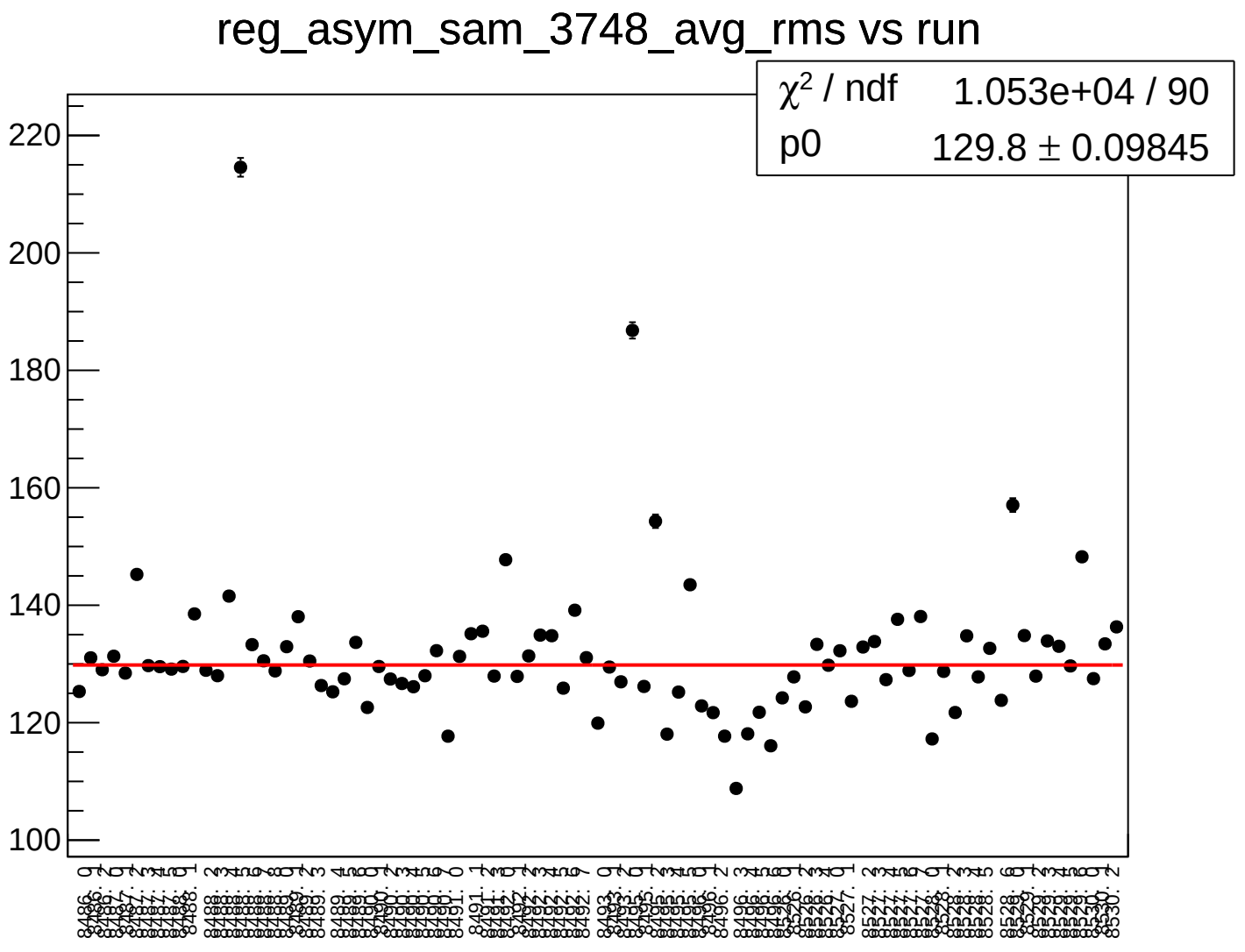

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.175e+04 / 90
p0 48.32 ± 0.03687
70
65
60
55
50
45
40
35

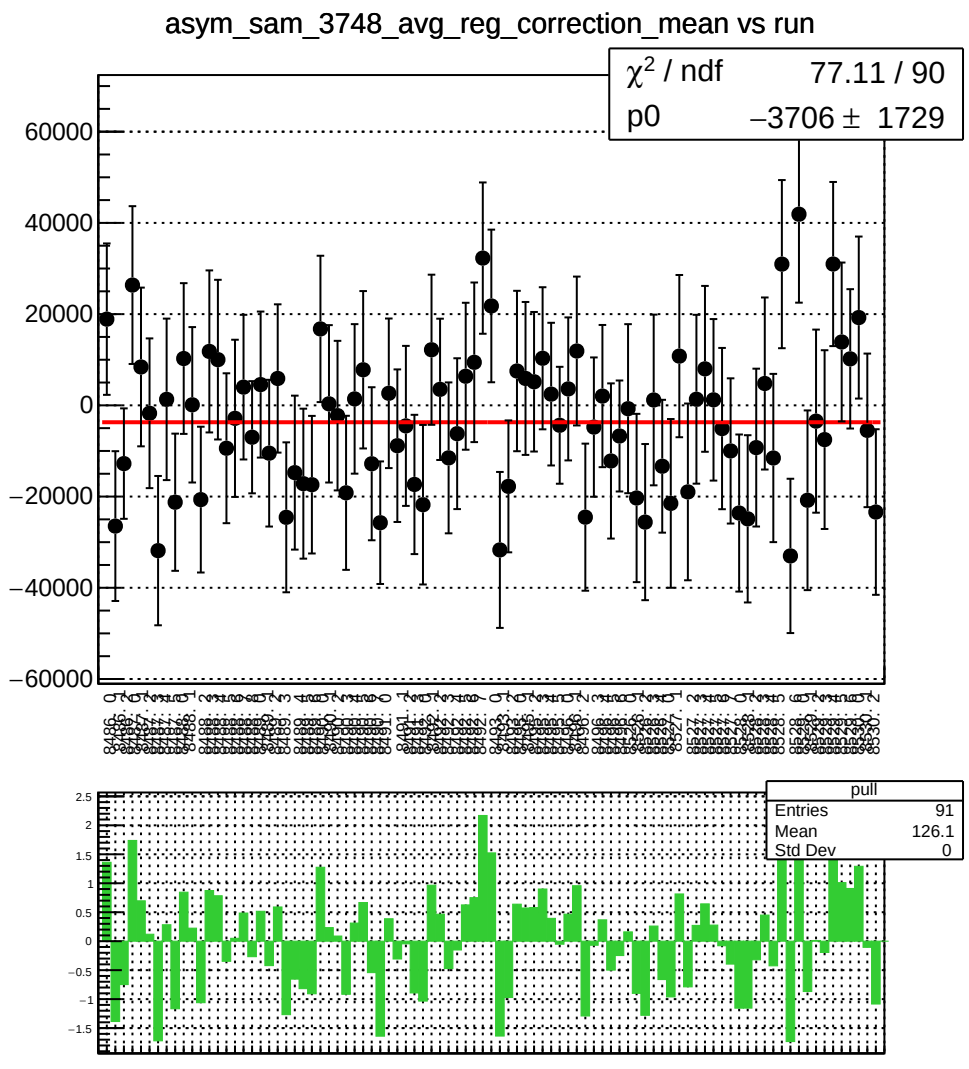

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.37 / 90
p0 6.192e−14 ± 6.132e−14
pull
Entries 91
Mean 66.14
Std Dev 23.11

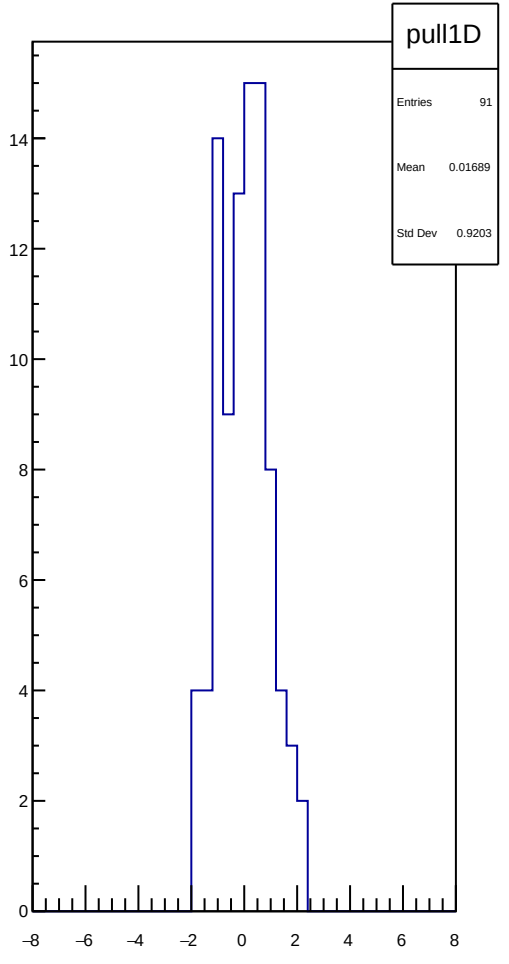

pull1D
Entries 91
Mean −0.1154
Std Dev 0.9787


asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.829e+05 / 90
p0 4.683e−11 ± 4.336e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02


reg_asym_sam_3748_avg_mean vs run
χ² / ndf 85.43 / 90
p0 446.8 ± 139.2
4000
2000
0
−2000
−4000
pull
Entries 91
Mean −337.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 91
Mean 0.01555
Std Dev 0.9688
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_3748_avg_rms vs run
χ² / ndf 1.053e+04 / 90
p0 129.8 ± 0.09845
220
200
180
160
140
120
100


asym_sam_3748_avg_reg_correction_mean vs run
χ² / ndf 77.11 / 90
p0 −3706 ± 1729
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 126.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 91
Mean 0.01689
Std Dev 0.9203
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12
10
8
6
4
2
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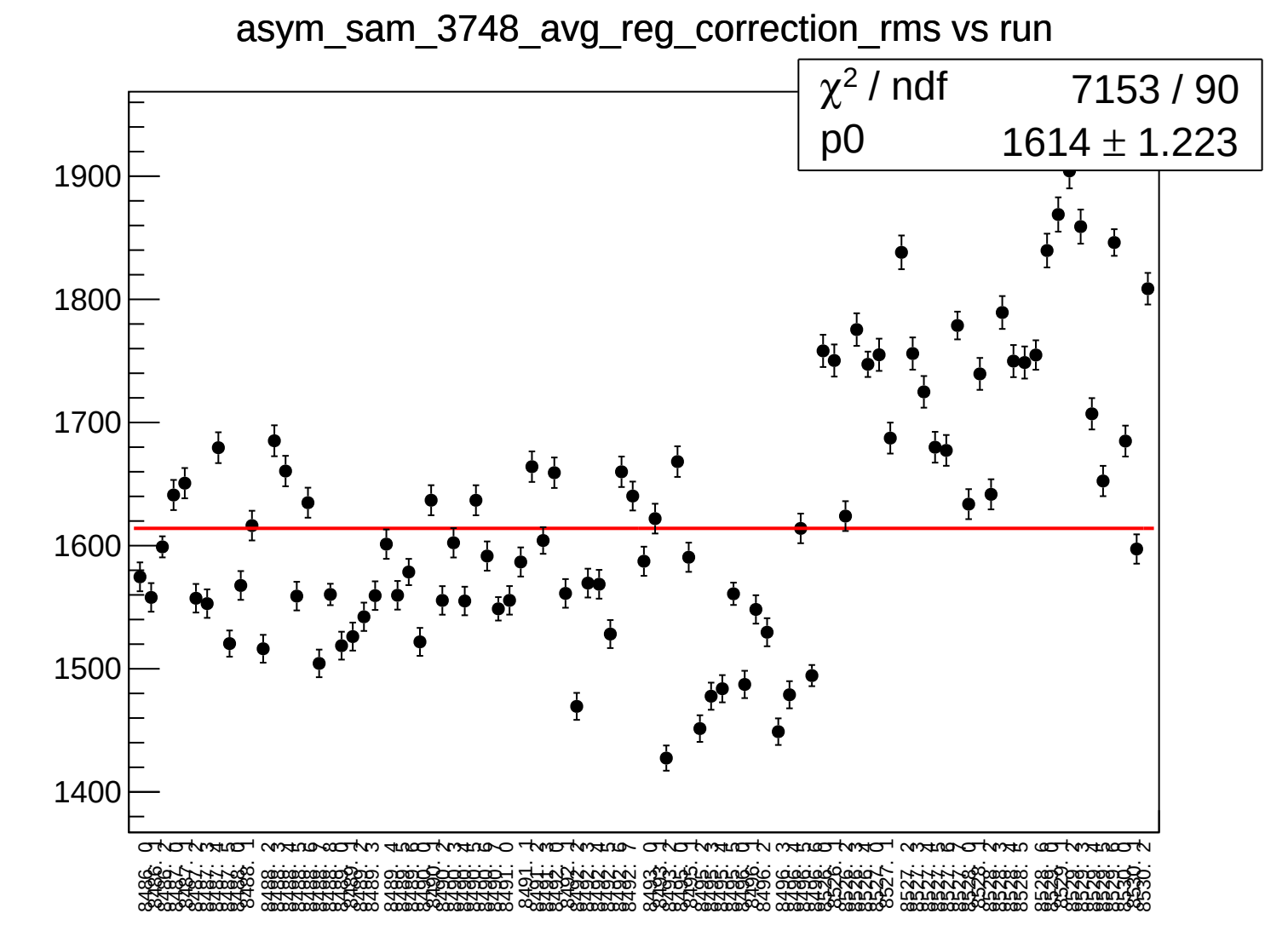
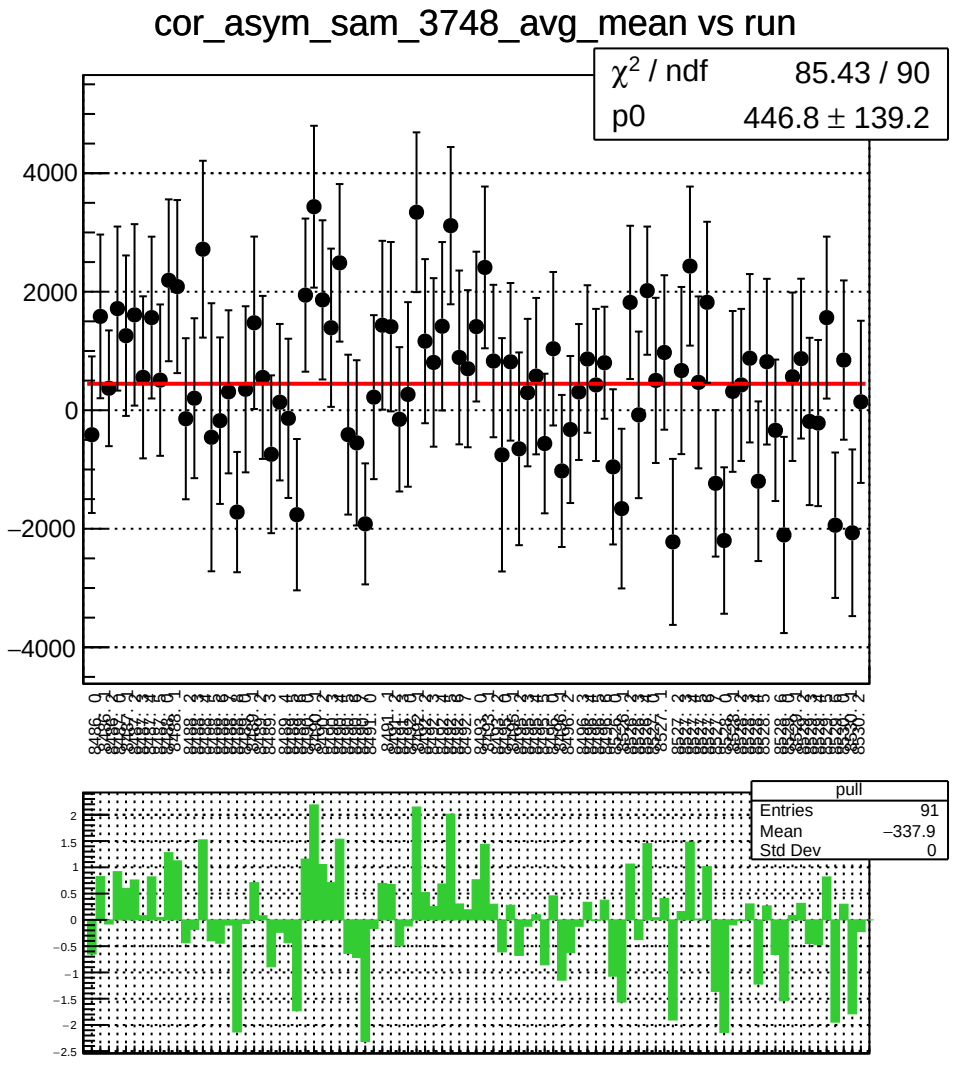
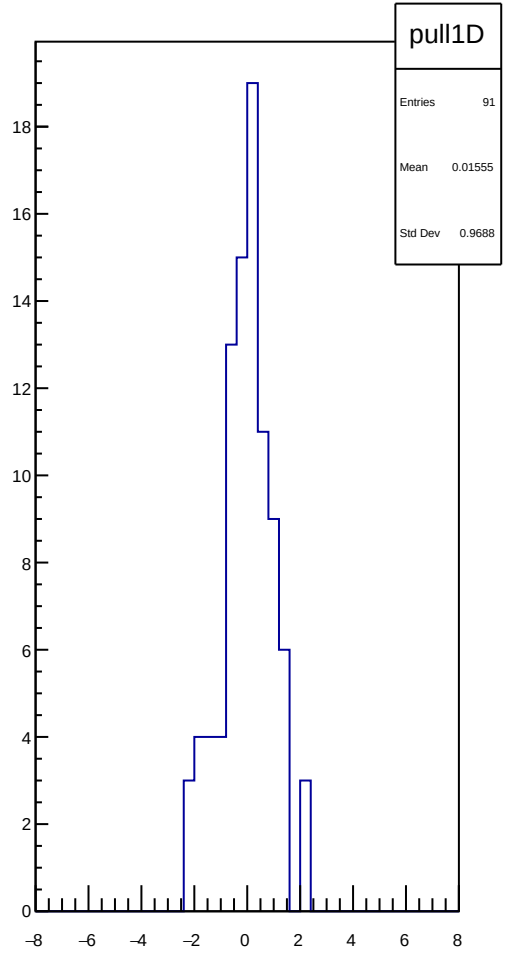
−8
−6
−4
−2
0
2
4
6
8


asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 7153 / 90
p0 1614 ± 1.223
1900
1800
1700
1600
1500
1400


cor_asym_sam_3748_avg_mean vs run
χ² / ndf 85.43 / 90
p0 446.8 ± 139.2
4000
2000
0
−2000
−4000
pull
Entries 91
Mean −337.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 91
Mean 0.01555
Std Dev 0.9688
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16
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10
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6
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2
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−6
−4
−2
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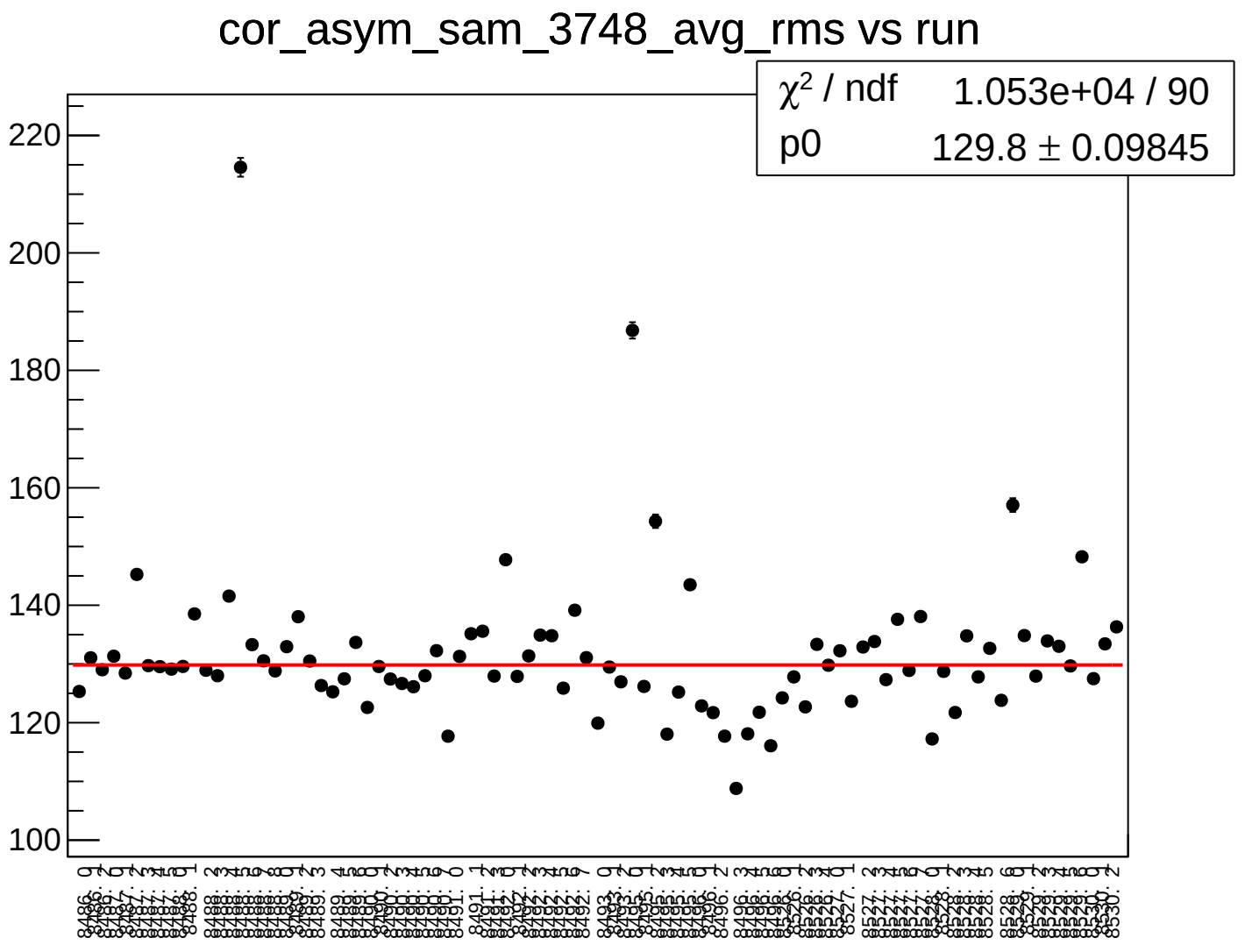
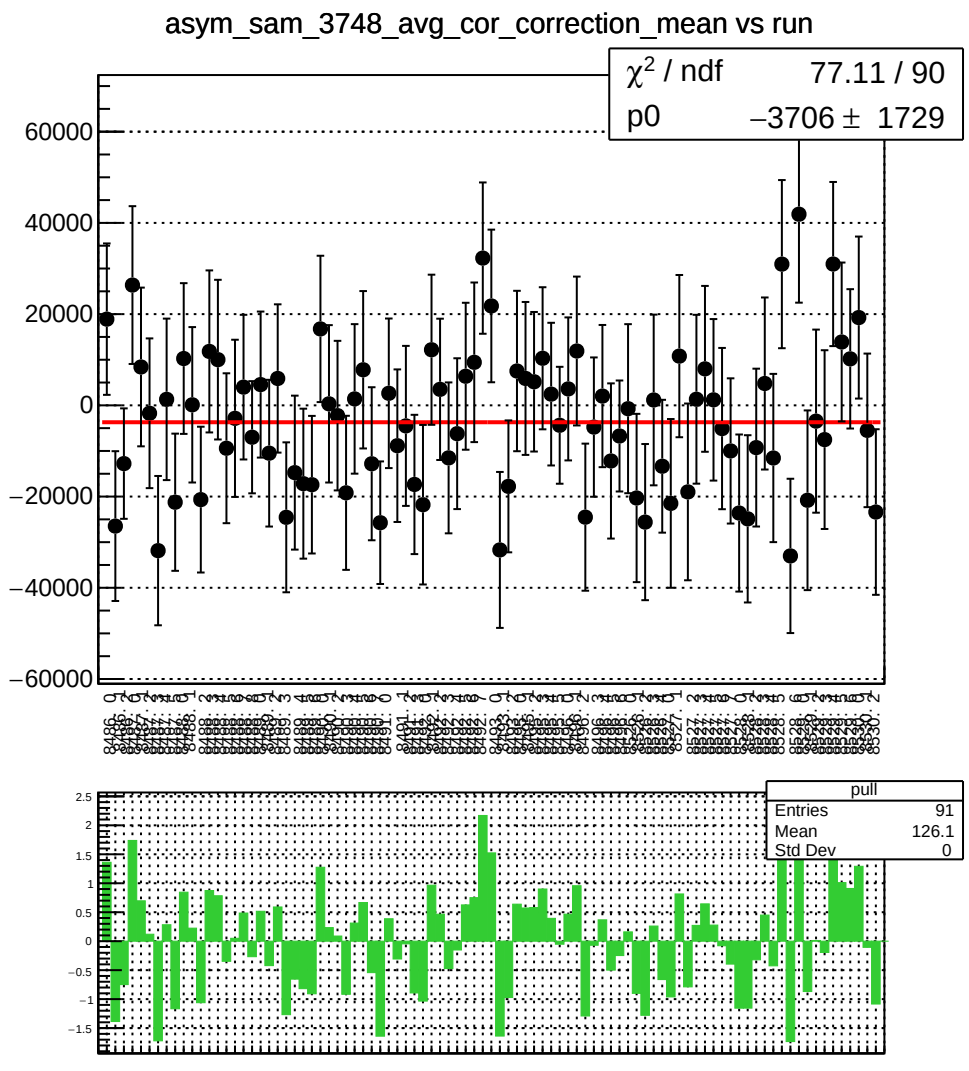
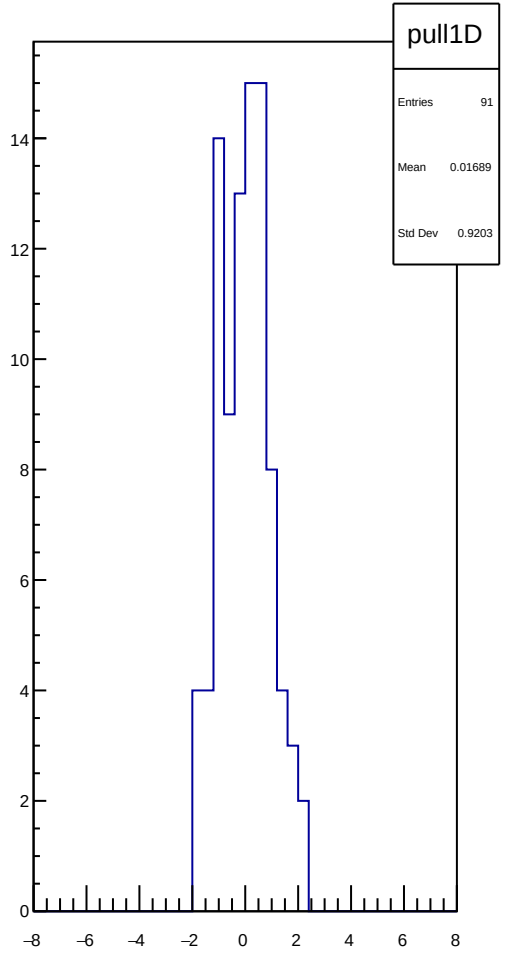
2
4
6
8


cor_asym_sam_3748_avg_rms vs run
χ² / ndf 1.053e+04 / 90
p0 129.8 ± 0.09845
220
200
180
160
140
120
100


asym_sam_3748_avg_cor_correction_mean vs run
χ² / ndf 77.11 / 90
p0 −3706 ± 1729
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 126.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 91
Mean 0.01689
Std Dev 0.9203
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10
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2
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6
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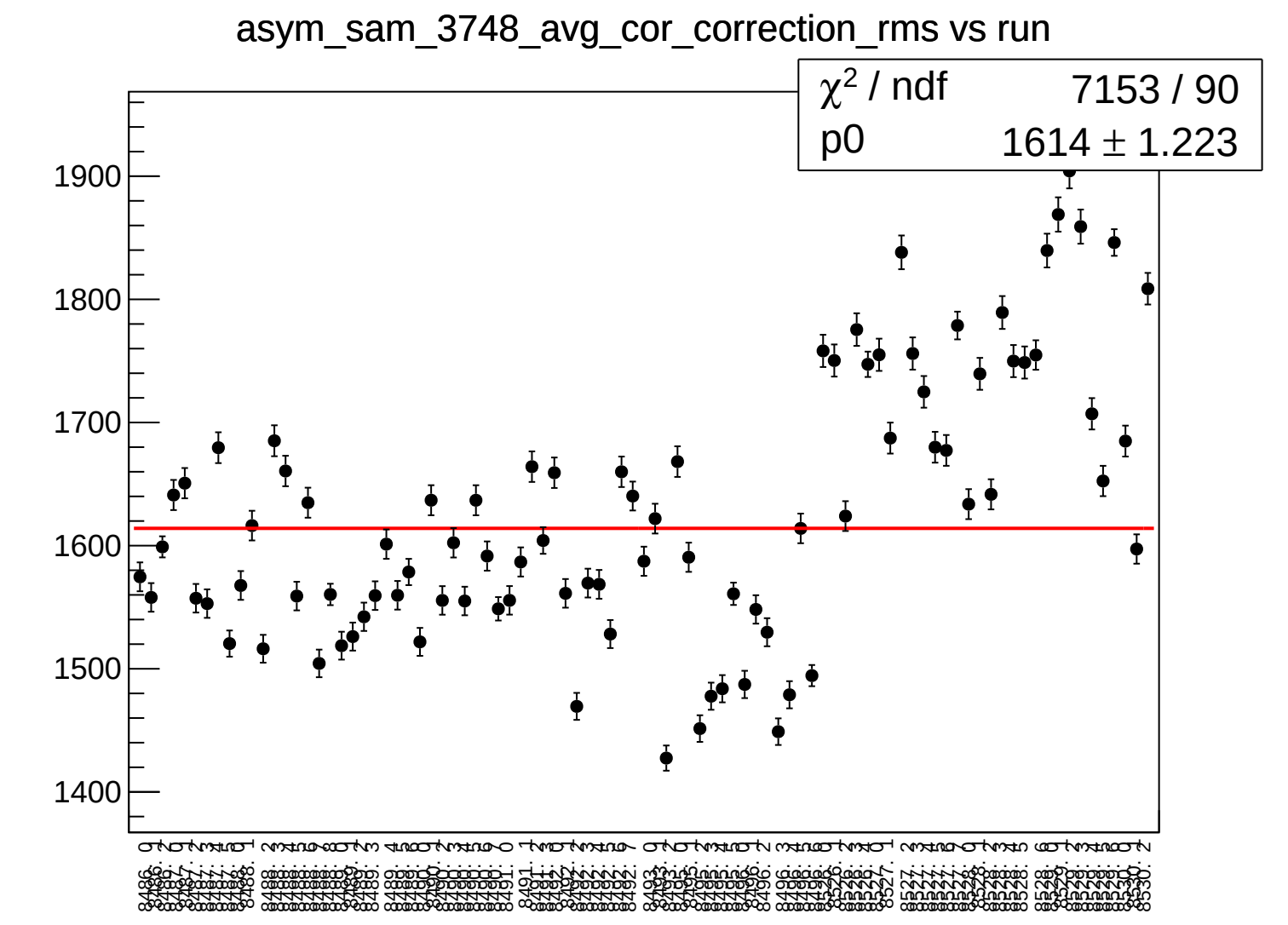
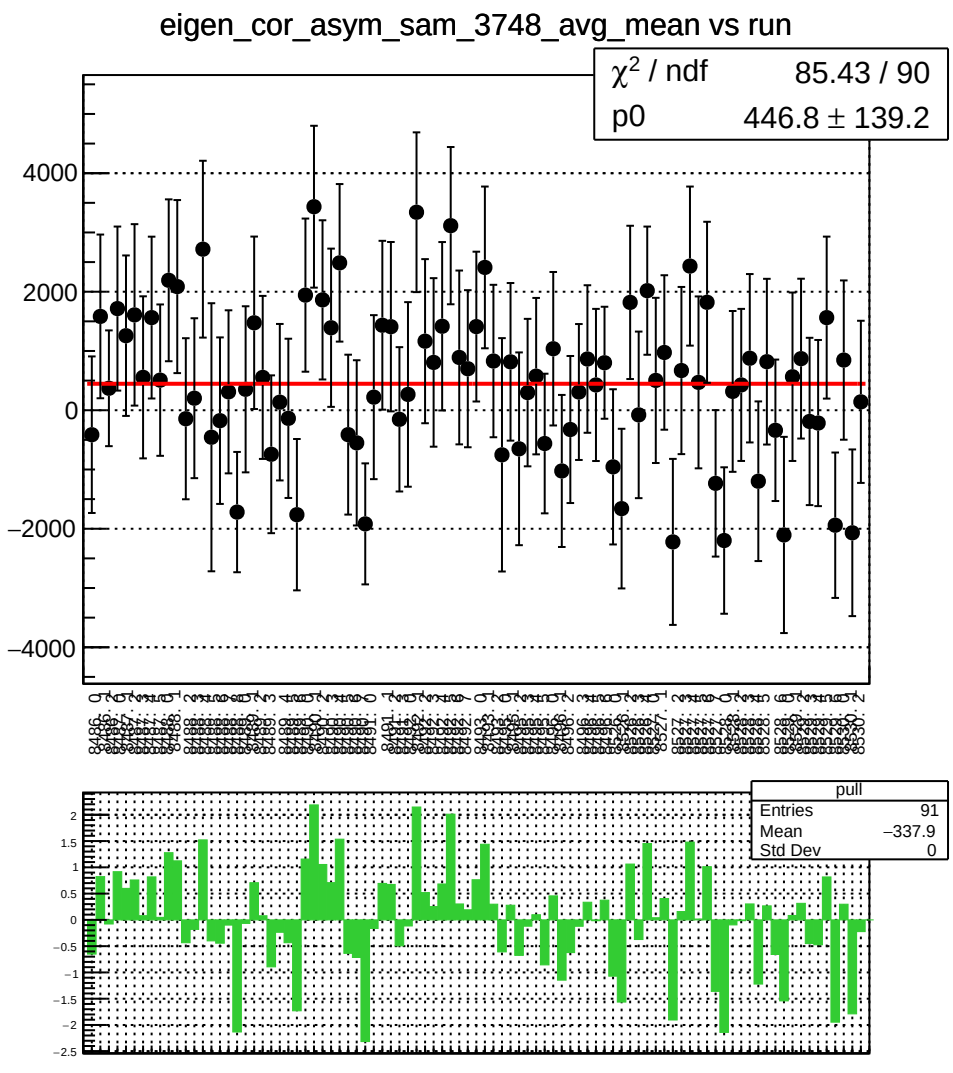
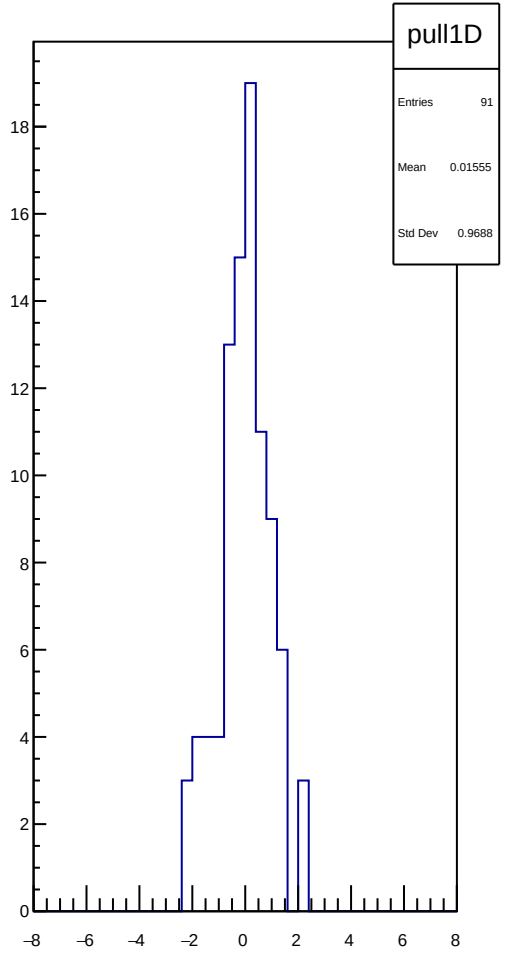

asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 7153 / 90
p0 1614 ± 1.223
1900
1800
1700
1600
1500
1400


eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 85.43 / 90
p0 446.8 ± 139.2
4000
2000
0
−2000
−4000
pull
Entries 91
Mean −337.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 91
Mean 0.01555
Std Dev 0.9688
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2
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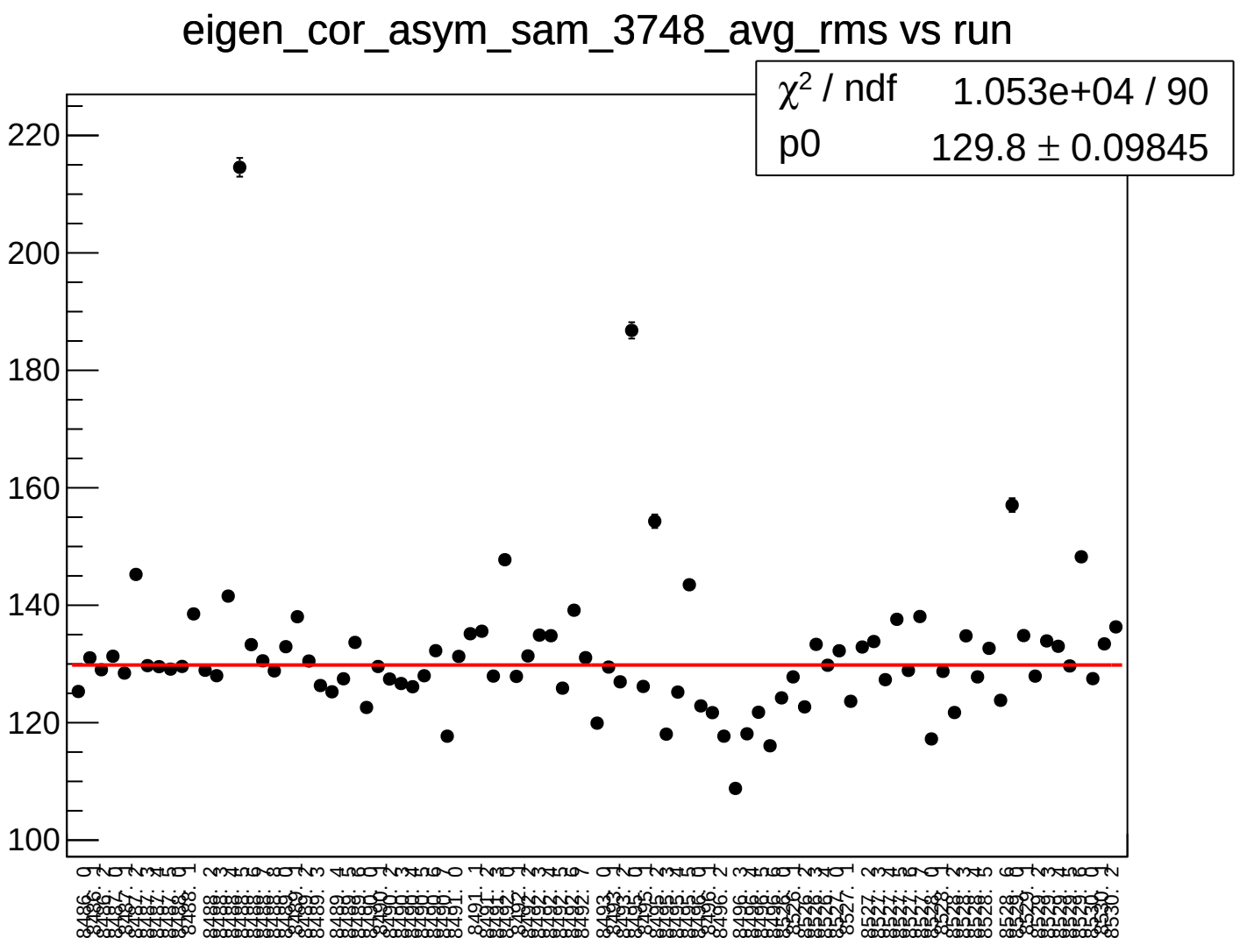
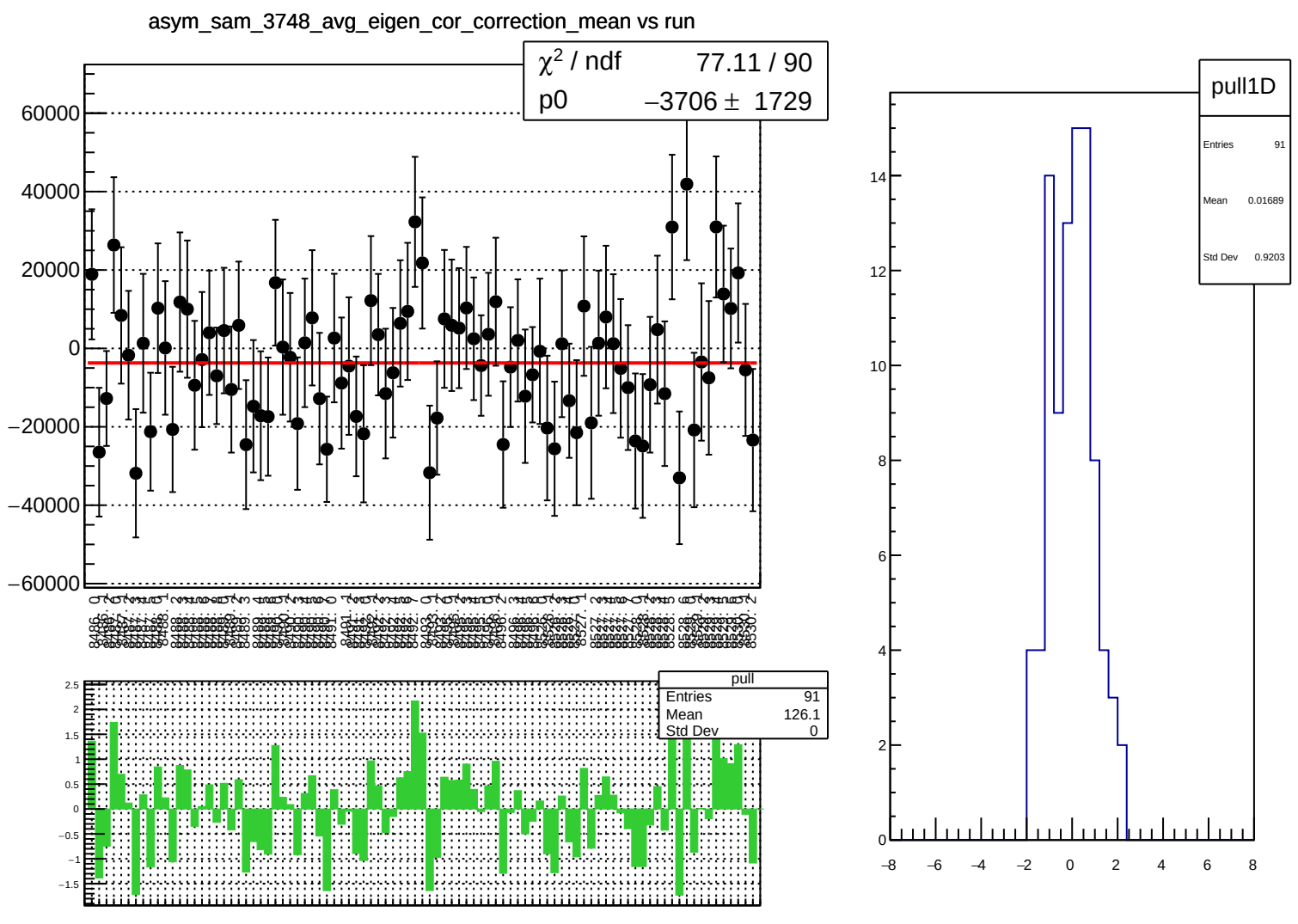

eigen_cor_asym_sam_3748_avg_rms vs run
χ² / ndf 1.053e+04 / 90
p0 129.8 ± 0.09845
220
200
180
160
140
120
100


asym_sam_3748_avg_eigen_cor_correction_mean vs run
χ² / ndf 77.11 / 90
p0 −3706 ± 1729
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 126.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 91
Mean 0.01689
Std Dev 0.9203
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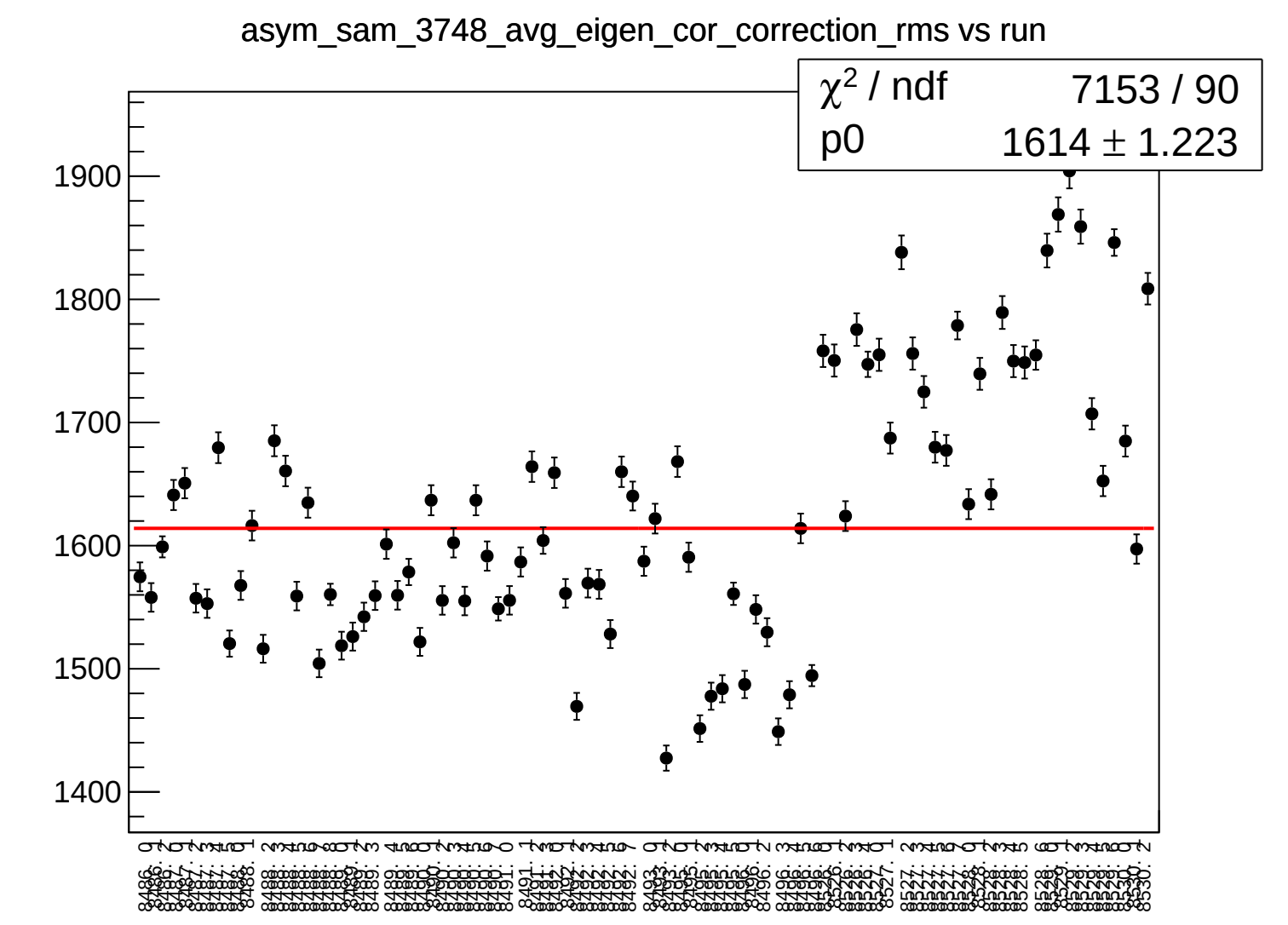
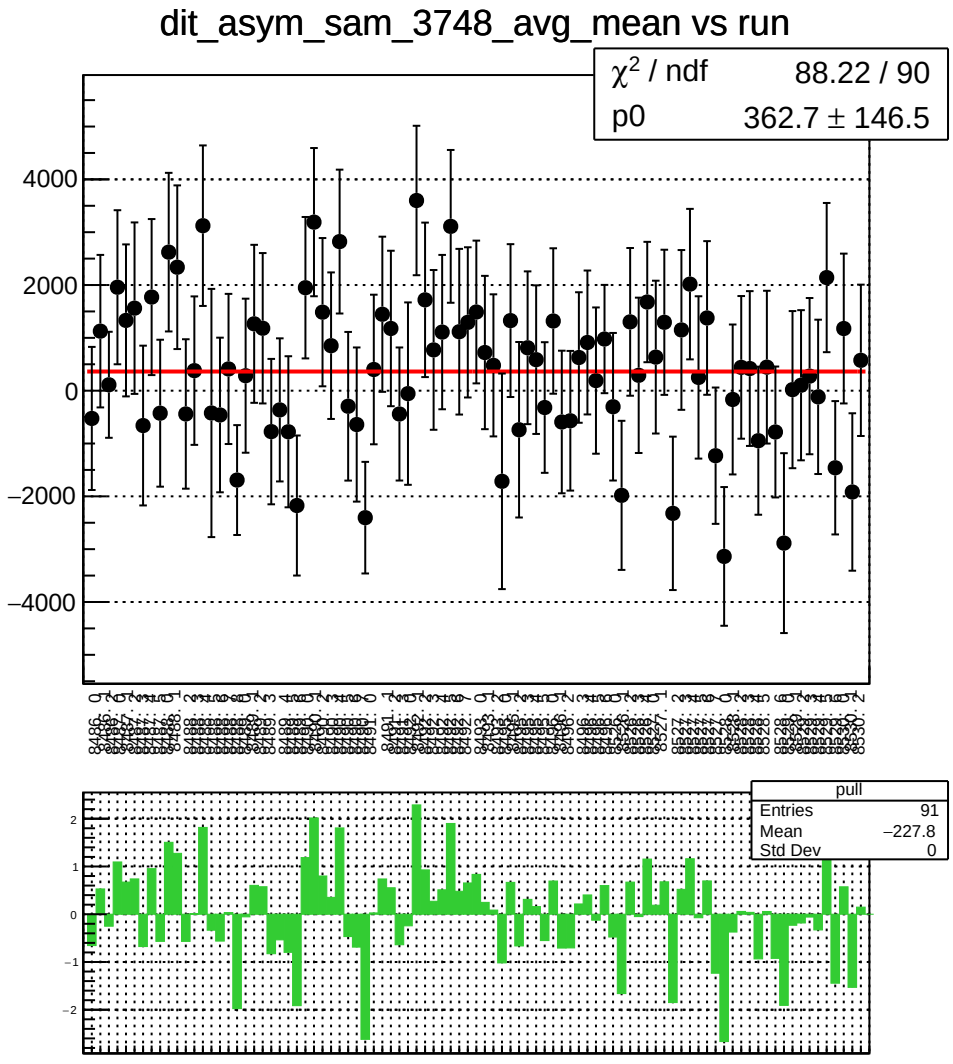
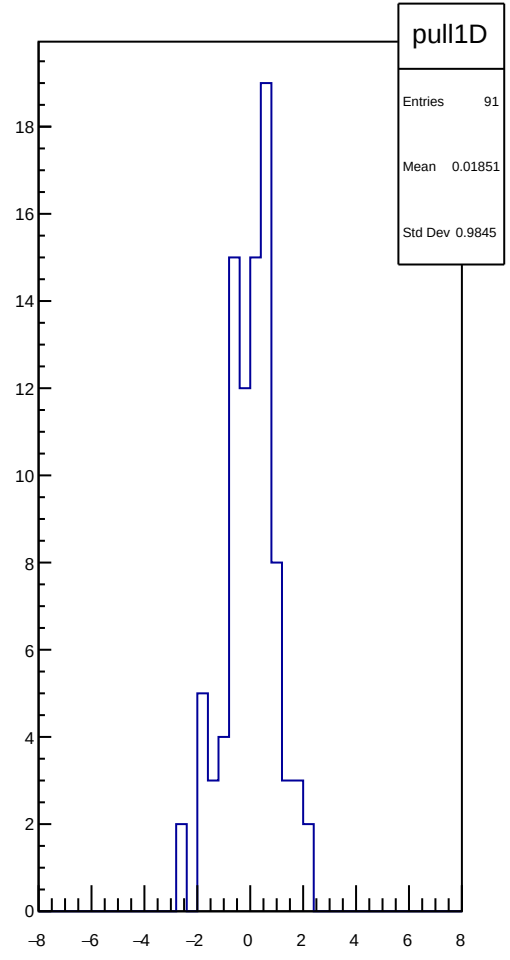

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 7153 / 90
p0 1614 ± 1.223
1900
1800
1700
1600
1500
1400


dit_asym_sam_3748_avg_mean vs run
χ² / ndf 88.22 / 90
p0 362.7 ± 146.5
4000
2000
0
−2000
−4000
pull
Entries 91
Mean −227.8
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 91
Mean 0.01851
Std Dev 0.9845
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16
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12
10
8
6
4
2
0
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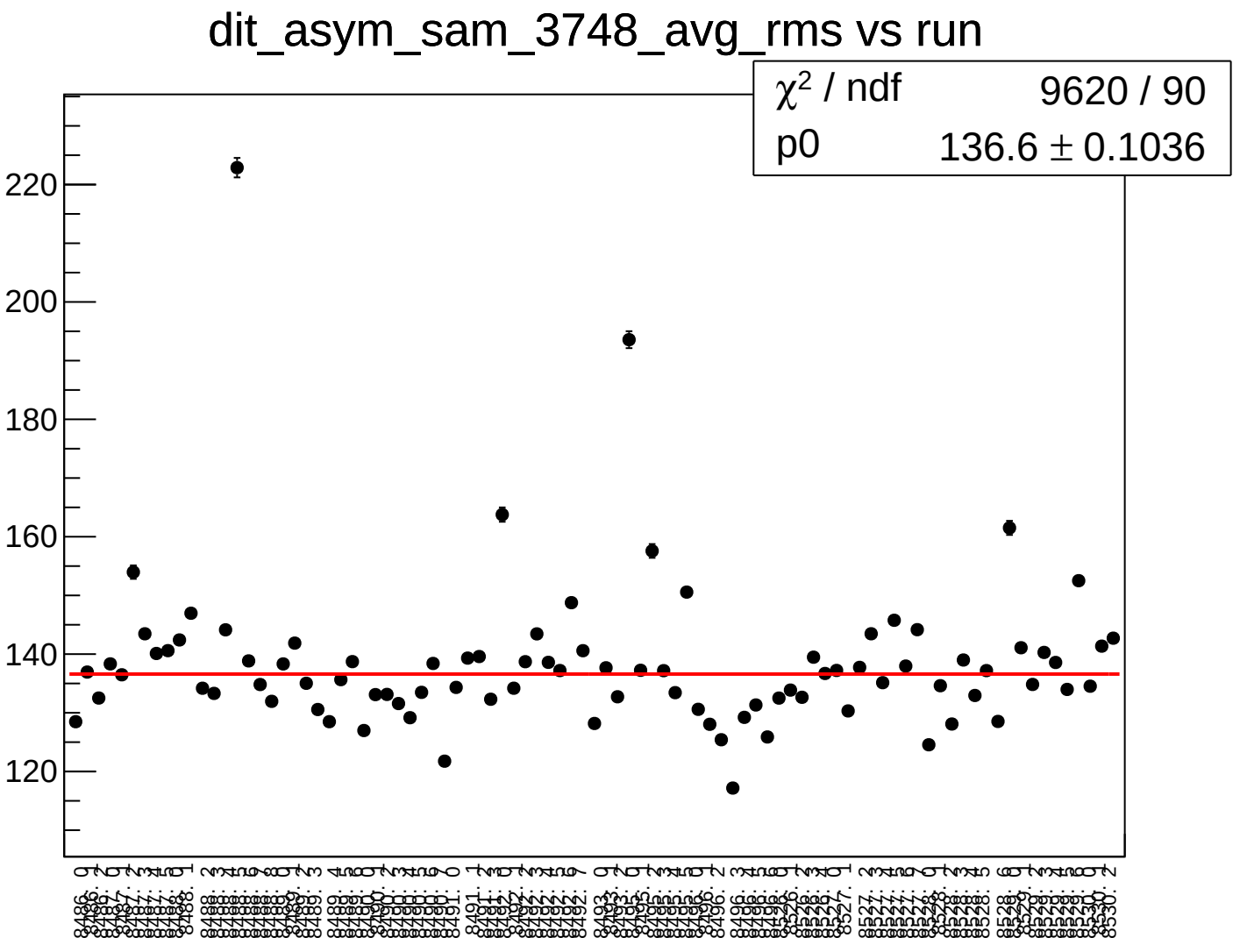
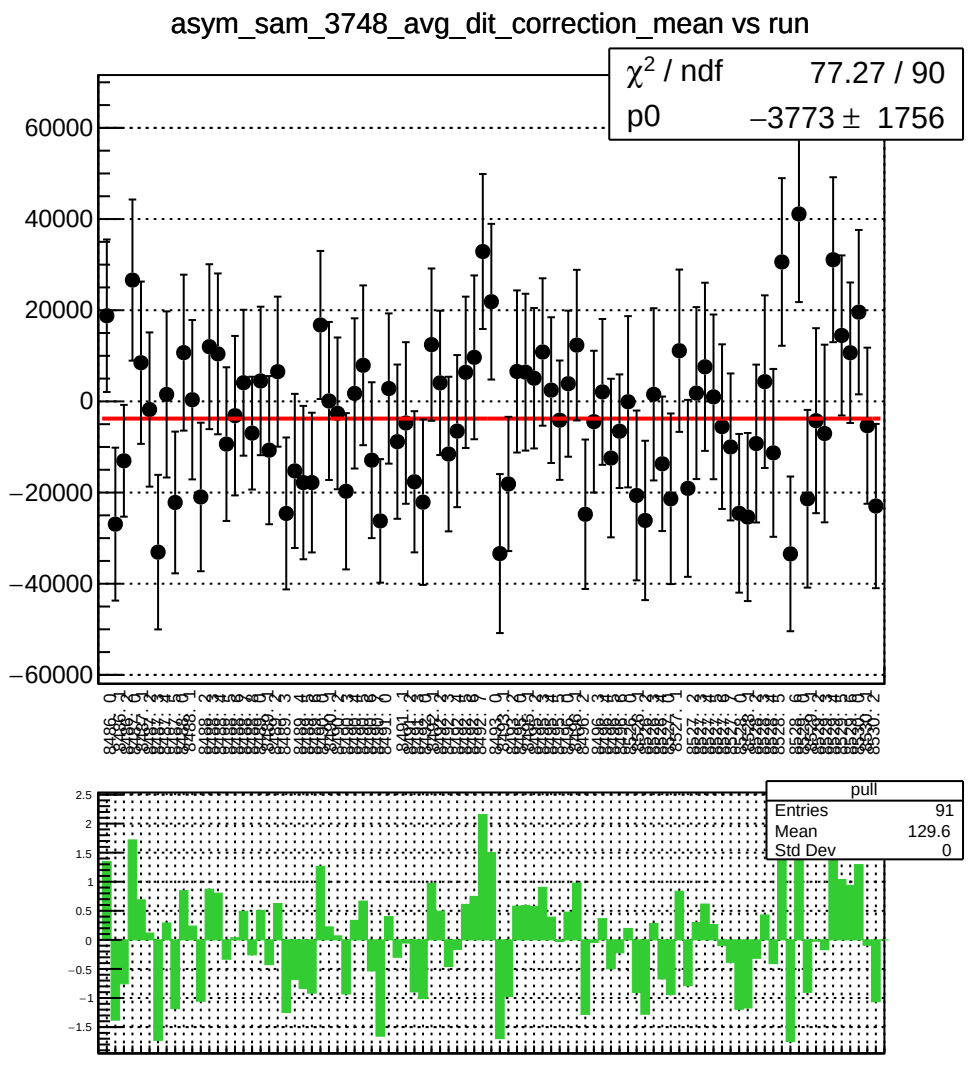
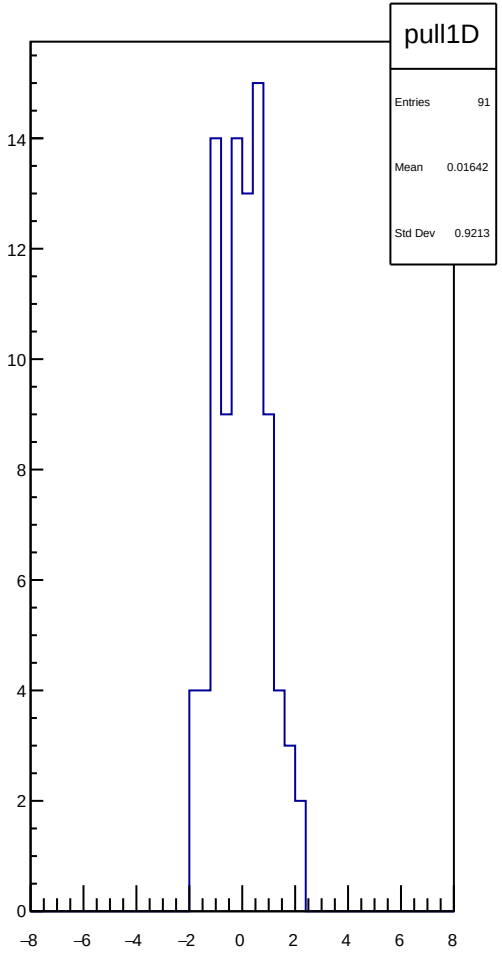
−4
−2
0
2
4
6
8


dit_asym_sam_3748_avg_rms vs run
χ^2 / ndf 9620 / 90
p0 136.6 ± 0.1036
220
200
180
160
140
120


asym_sam_3748_avg_dit_correction_mean vs run
χ² / ndf 77.27 / 90
p0 −3773 ± 1756
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 129.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 91
Mean 0.01642
Std Dev 0.9213
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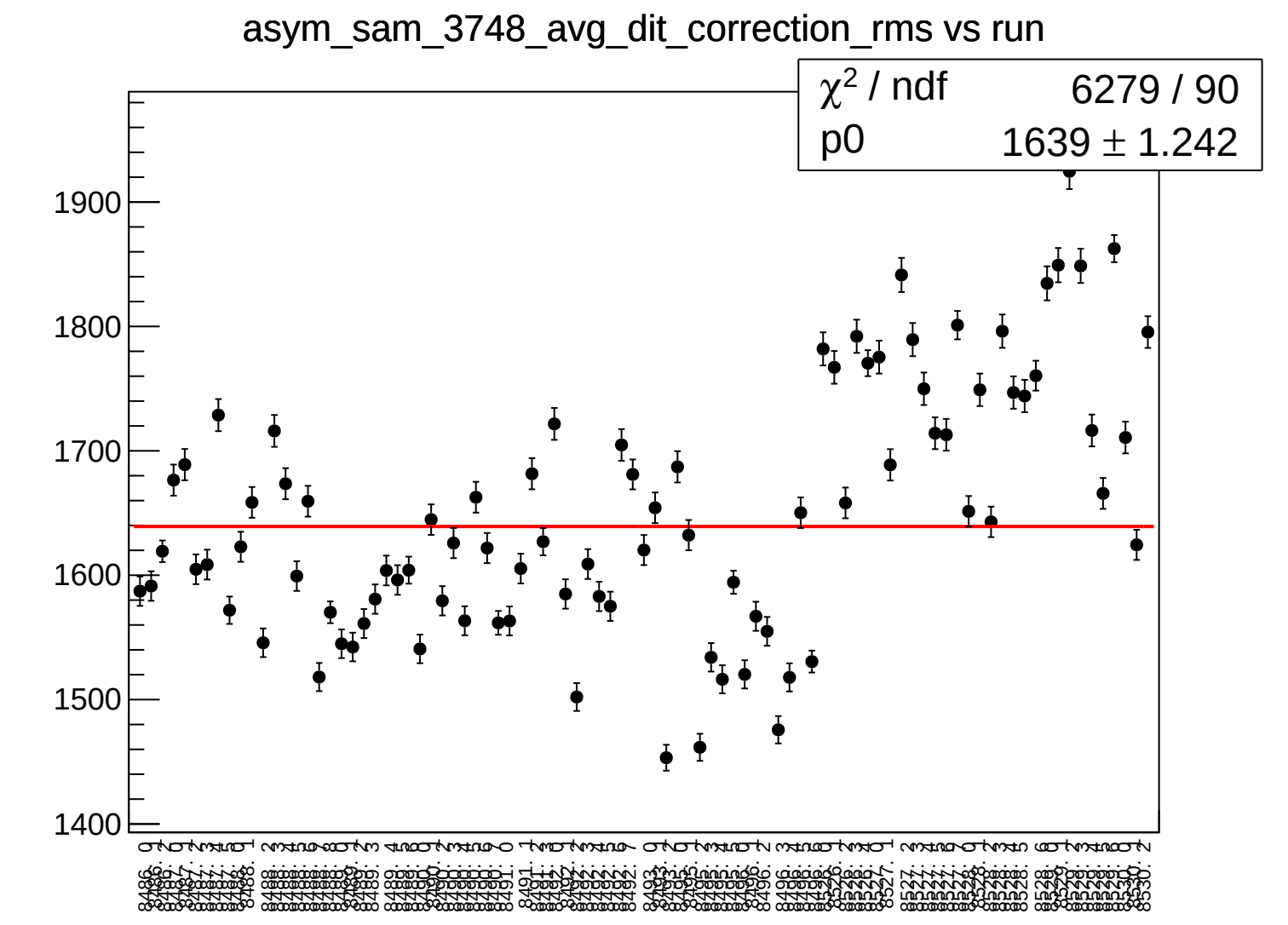
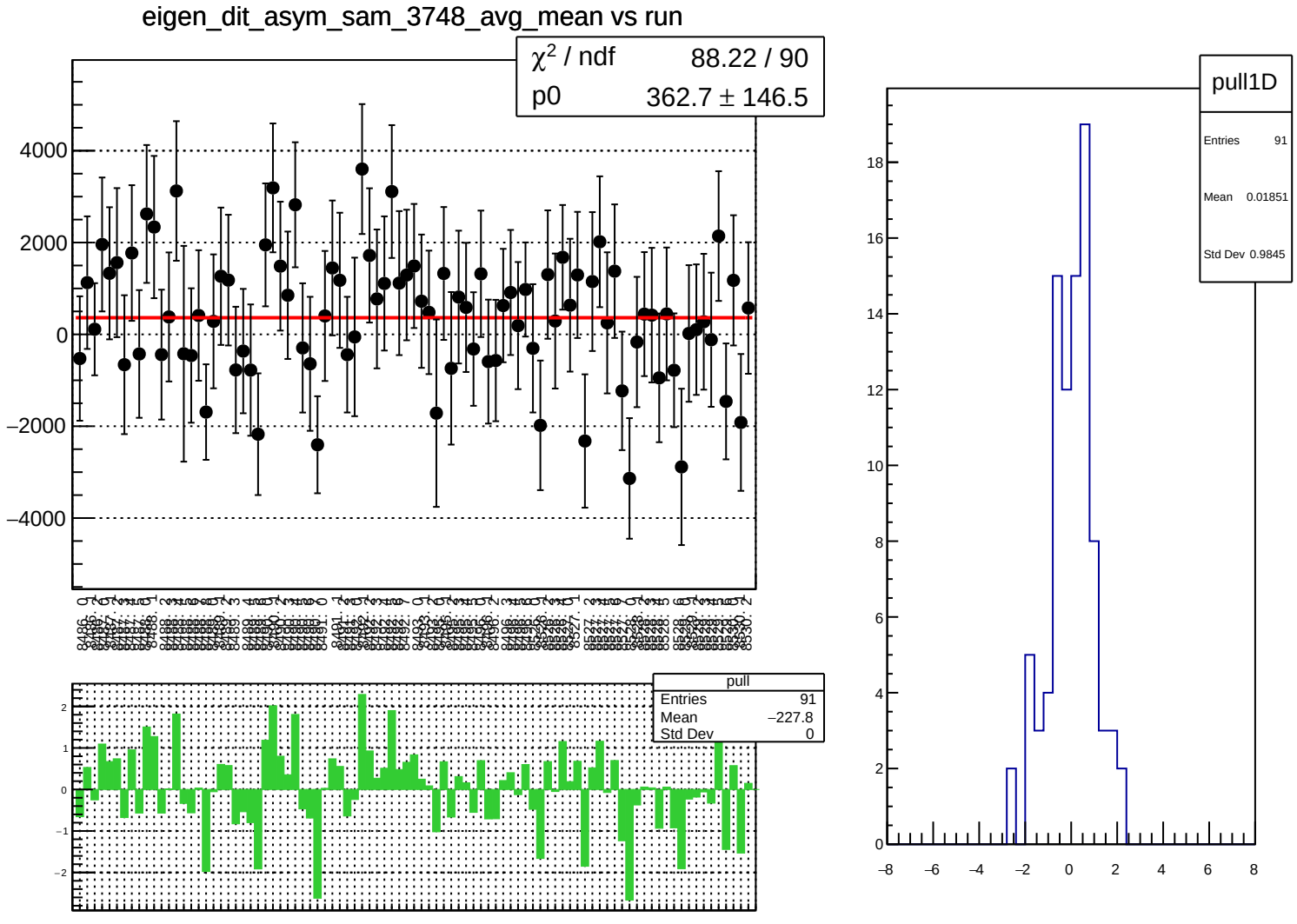
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 6279 / 90
p0 1639 ± 1.242
1900
1800
1700
1600
1500
1400


eigen_dit_asym_sam_3748_avg_mean vs run
χ^2 / ndf 88.22 / 90
p0 362.7 ± 146.5
4000
2000
0
−2000
−4000
pull
Entries 91
Mean −227.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.01851
Std Dev 0.9845
18
16
14
12
10
8
6
4
2
0
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−4
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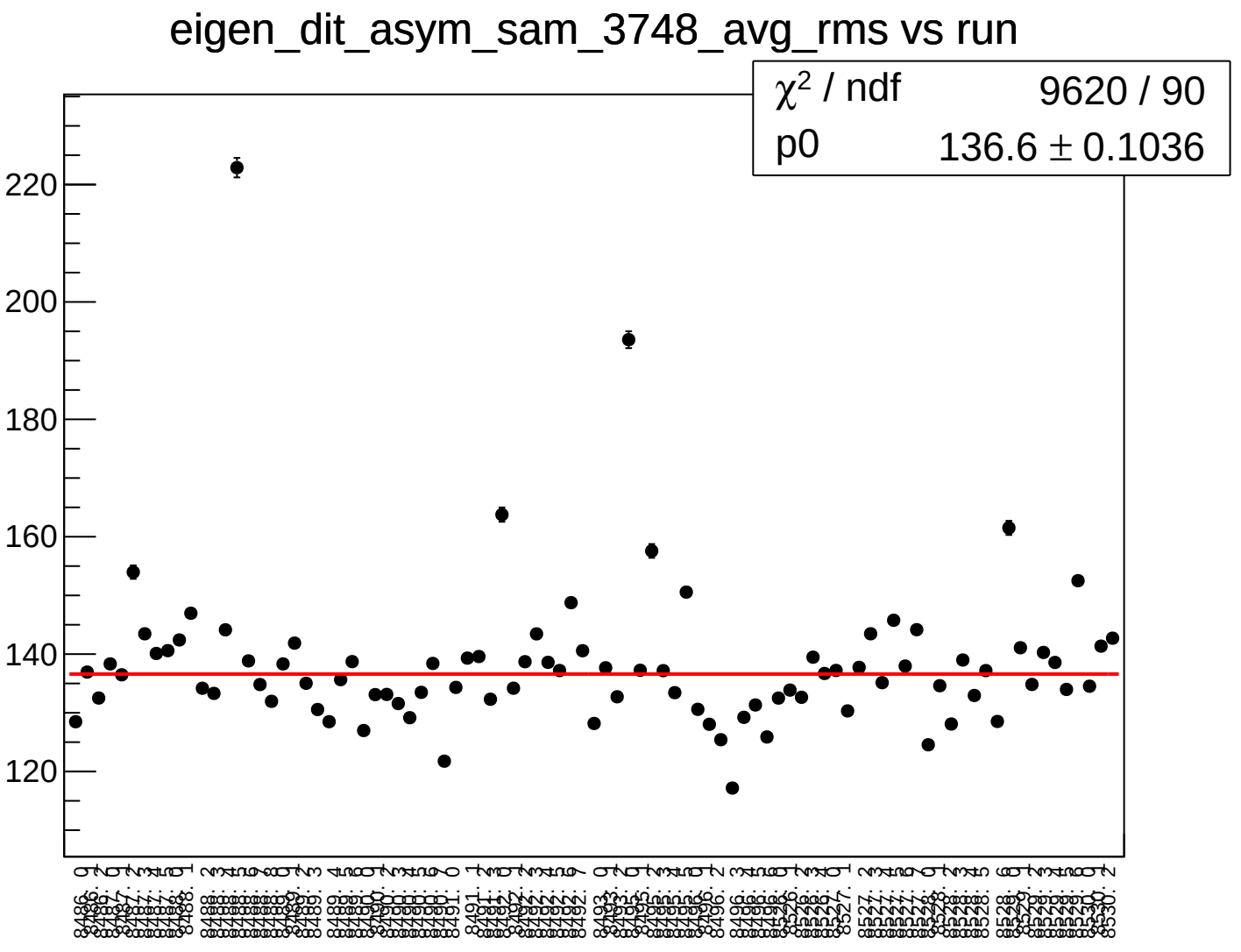
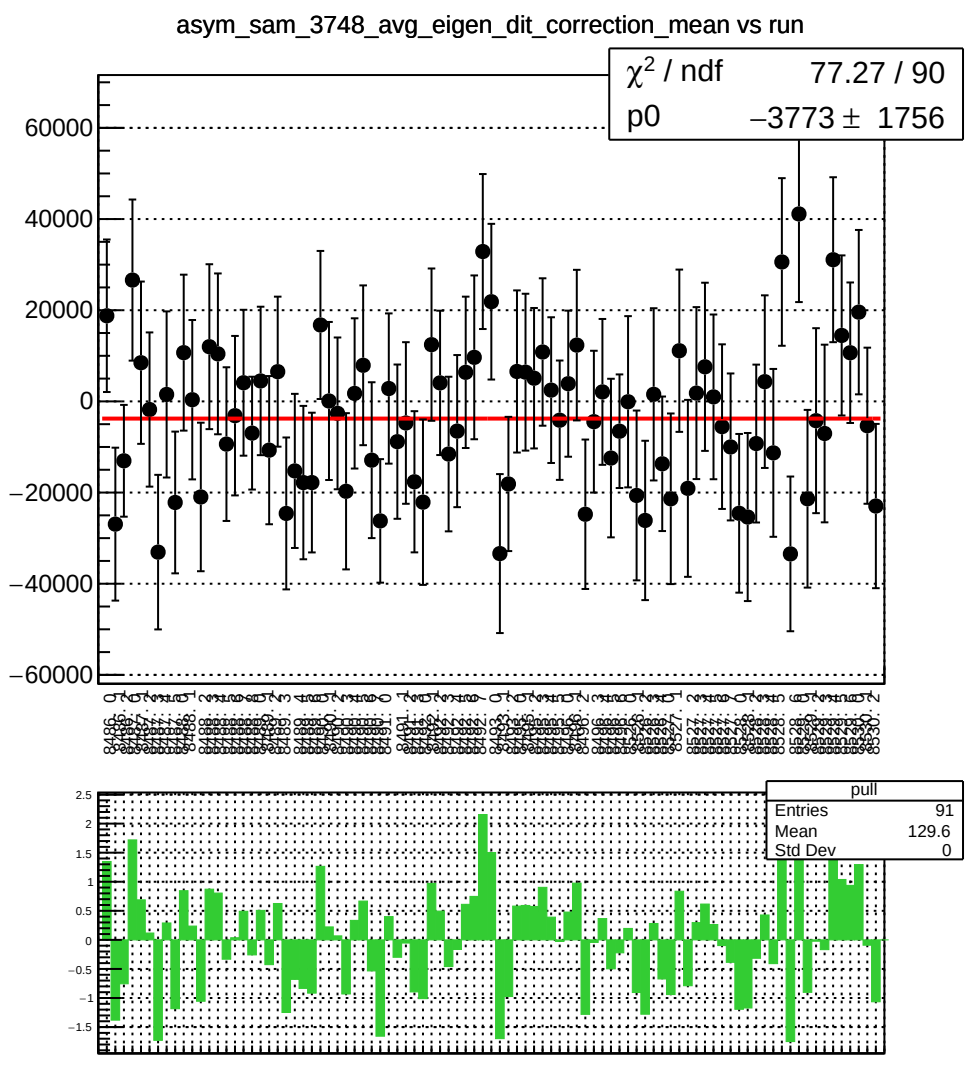
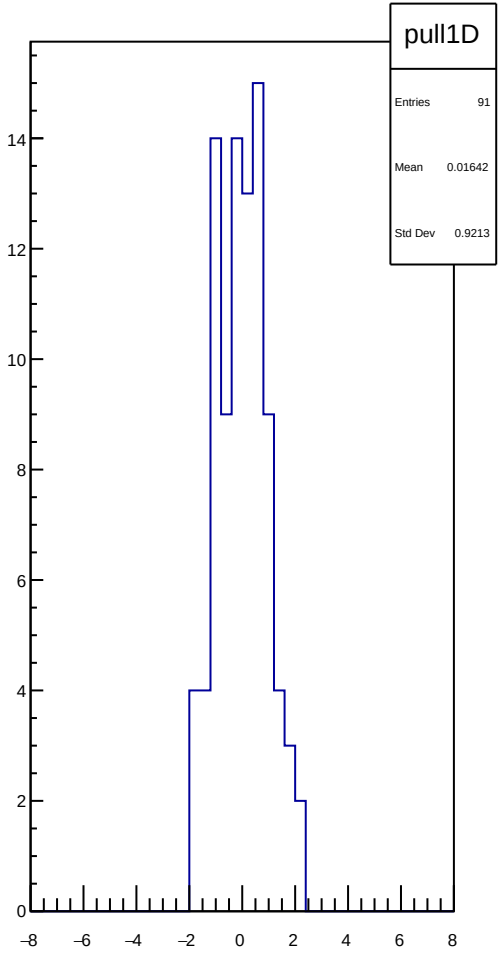
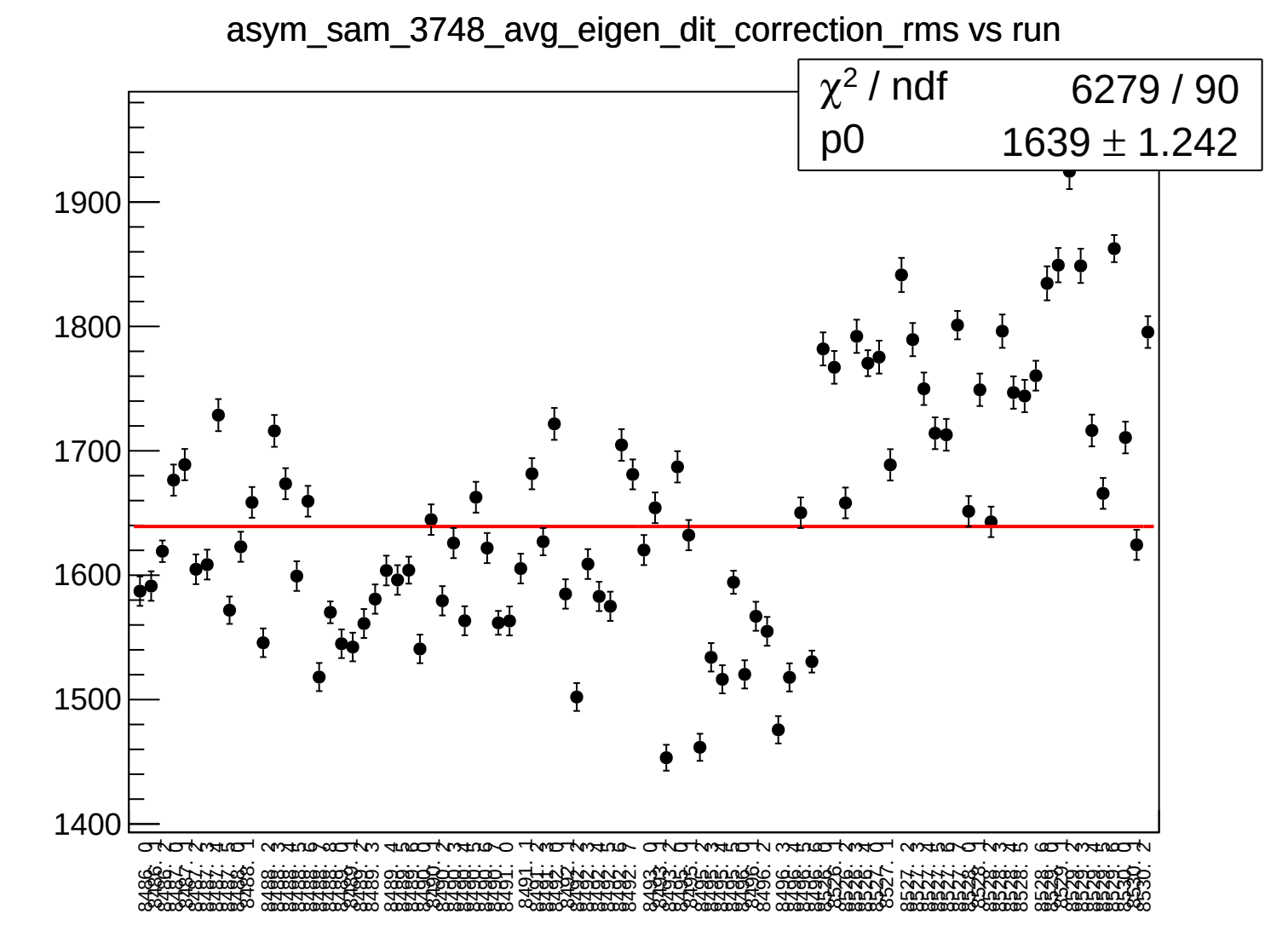
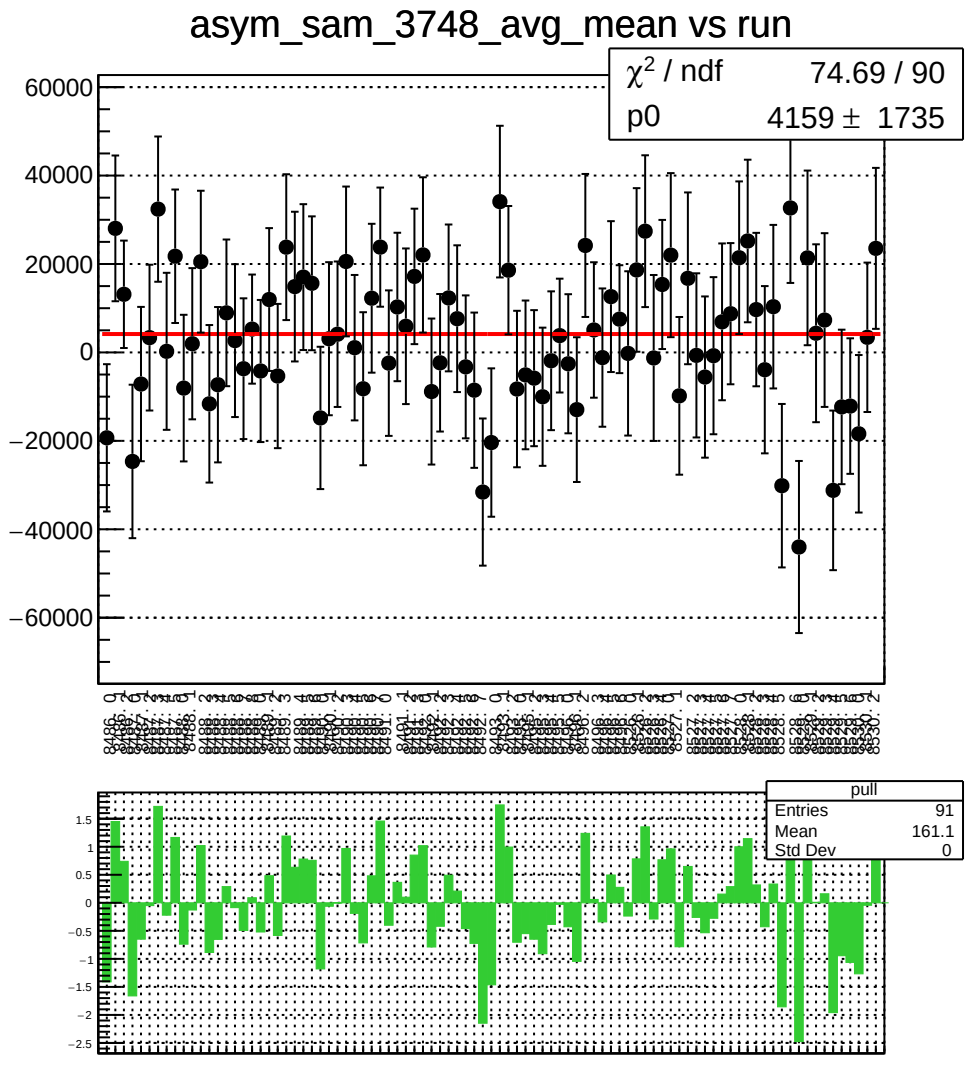
0
2
4
6
8

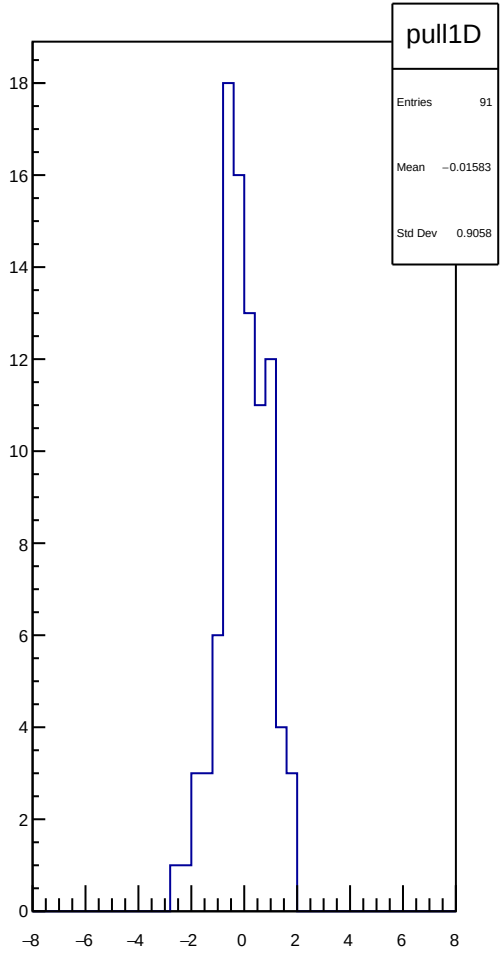

eigen_dit_asym_sam_3748_avg_rms vs run
χ^2 / ndf 9620 / 90
p0 136.6 ± 0.1036
220
200
180
160
140
120

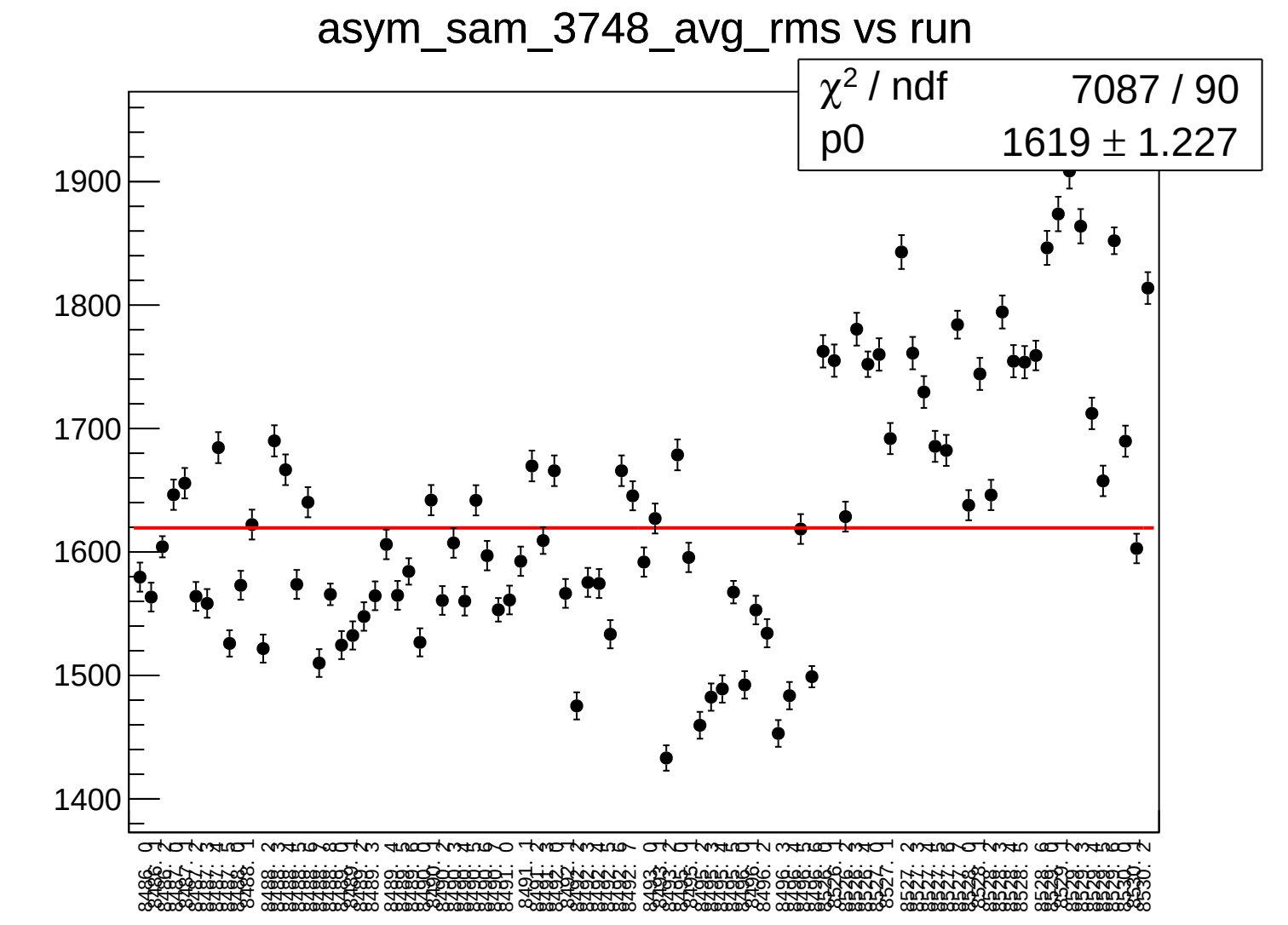

asym_sam_3748_avg_eigen_dit_correction_mean vs run
χ² / ndf 77.27 / 90
p0 −3773 ± 1756
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 129.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

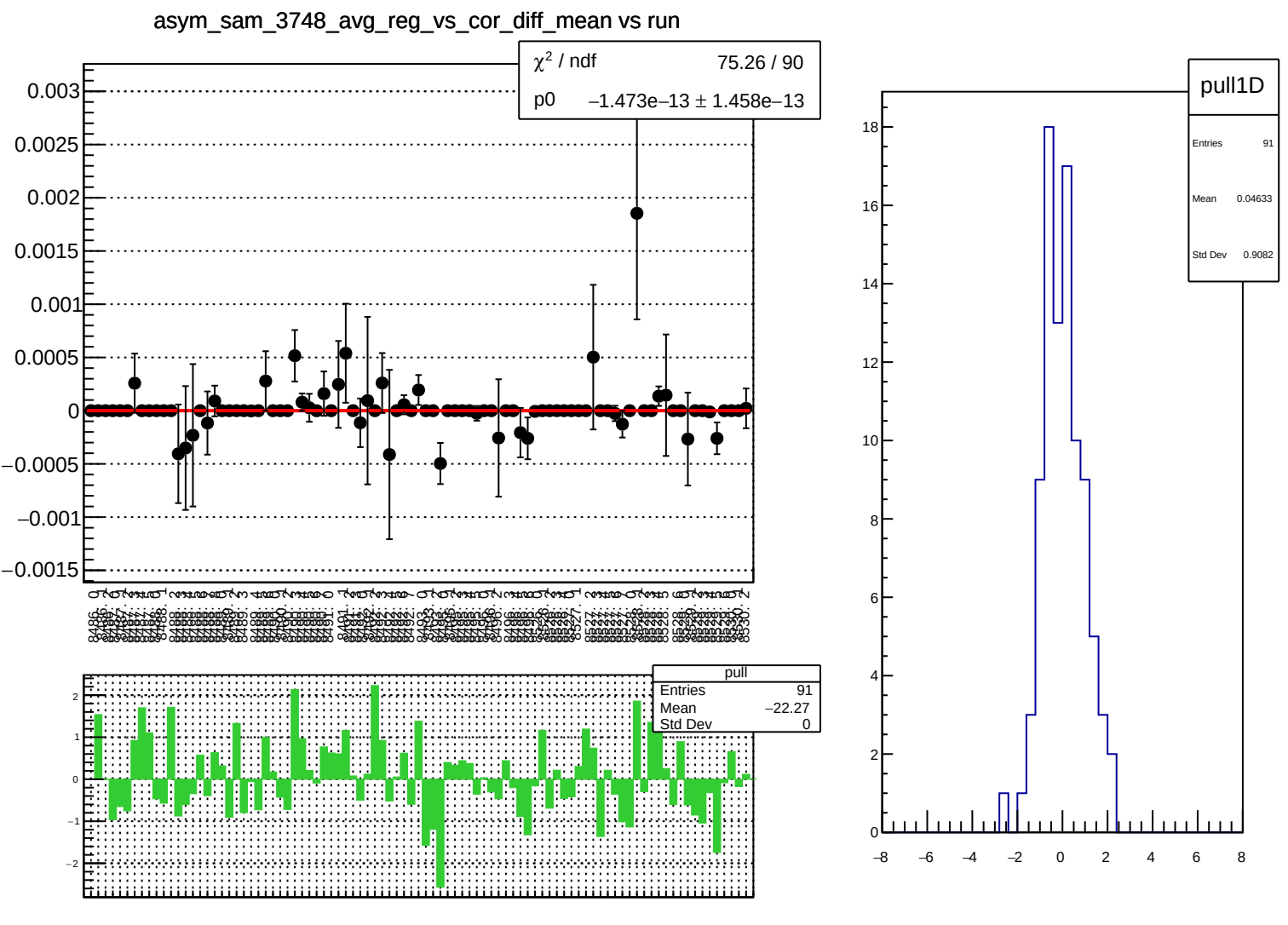

pull1D
Entries 91
Mean 0.01642
Std Dev 0.9213
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

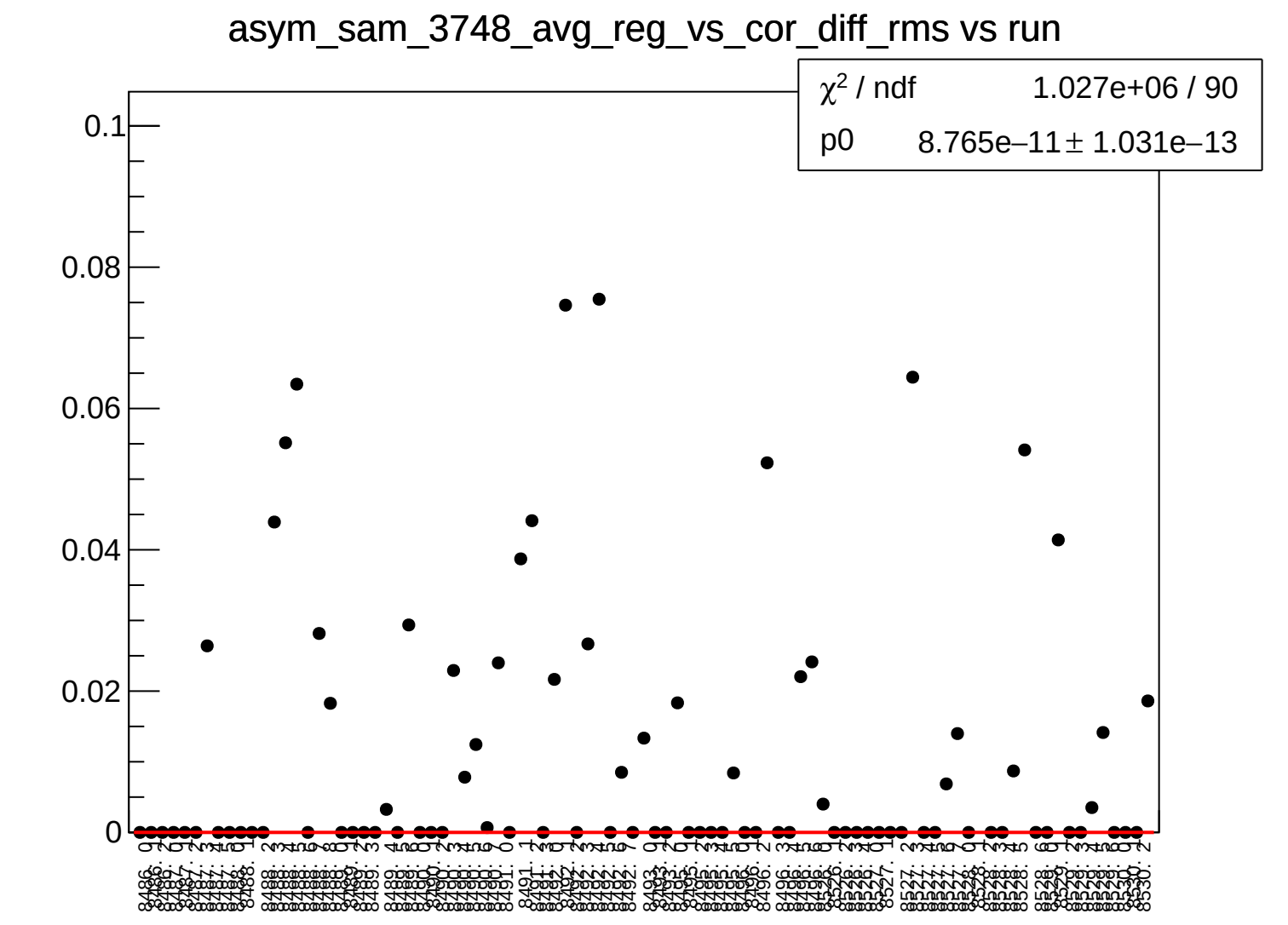

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 6279 / 90
p0 1639 ± 1.242
1900
1800
1700
1600
1500
1400

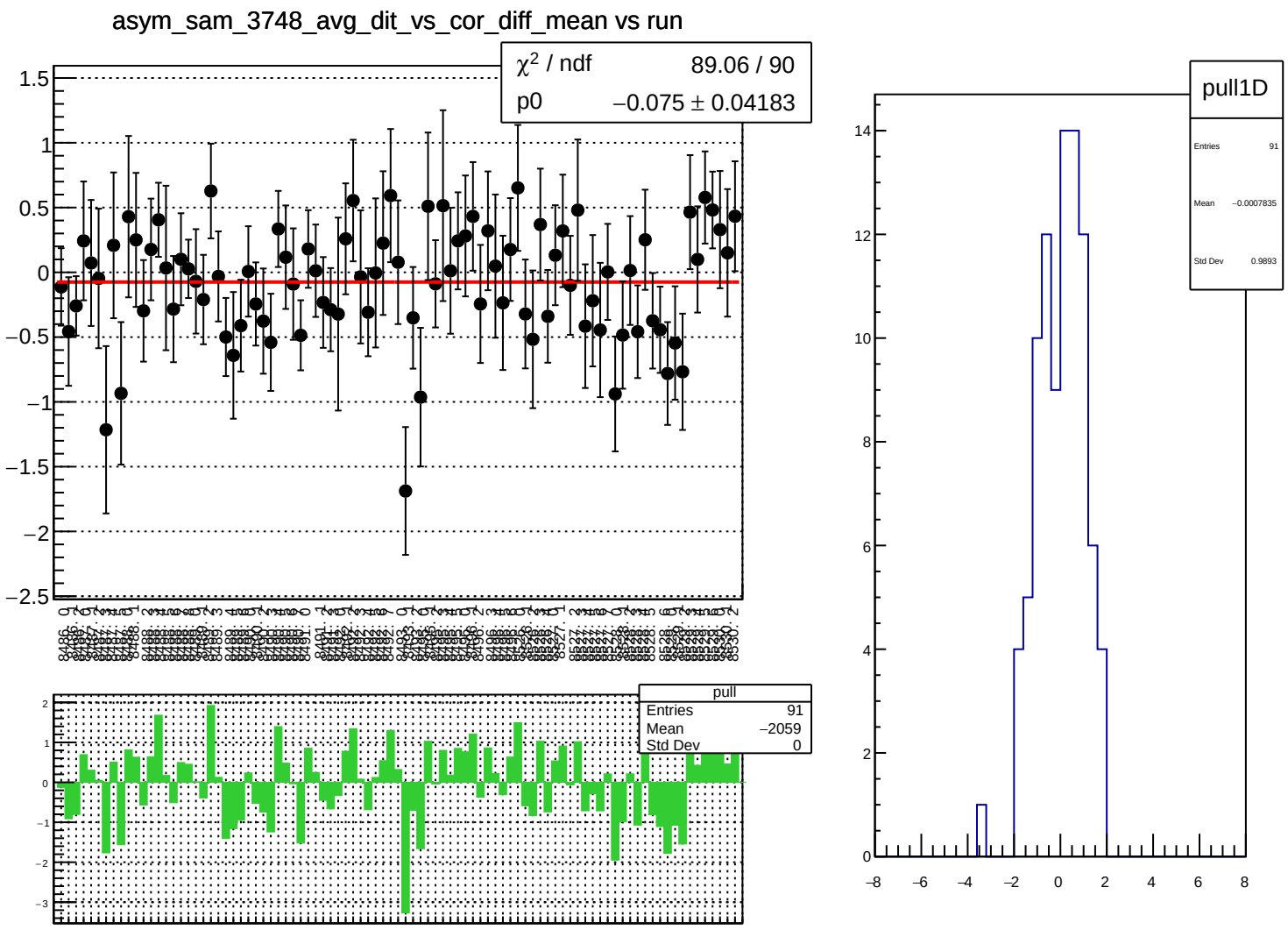

asym_sam_3748_avg_mean vs run
χ² / ndf 74.69 / 90
p0 4159 ± 1735
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 161.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

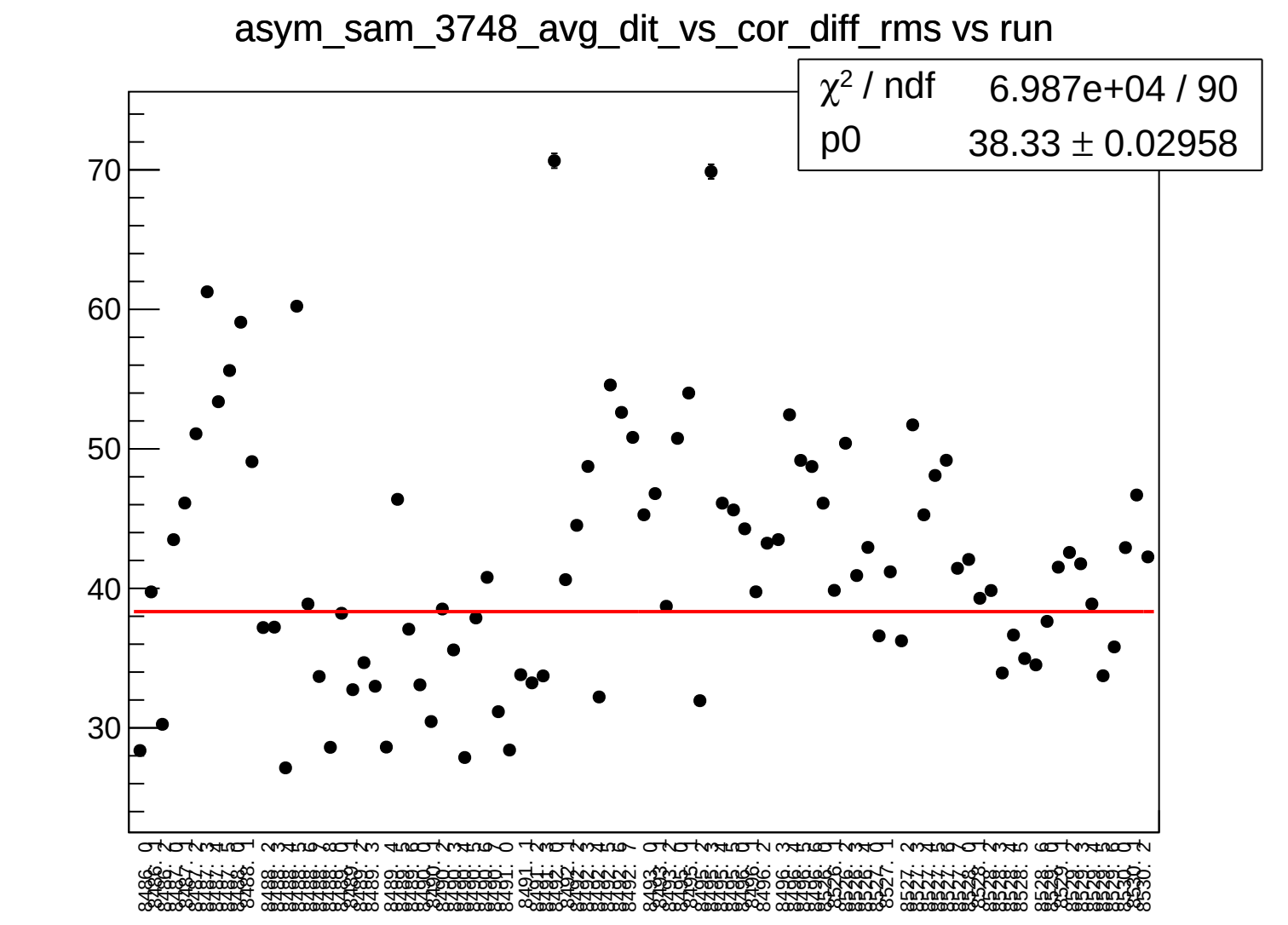

pull1D
Entries 91
Mean −0.01583
Std Dev 0.9058
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

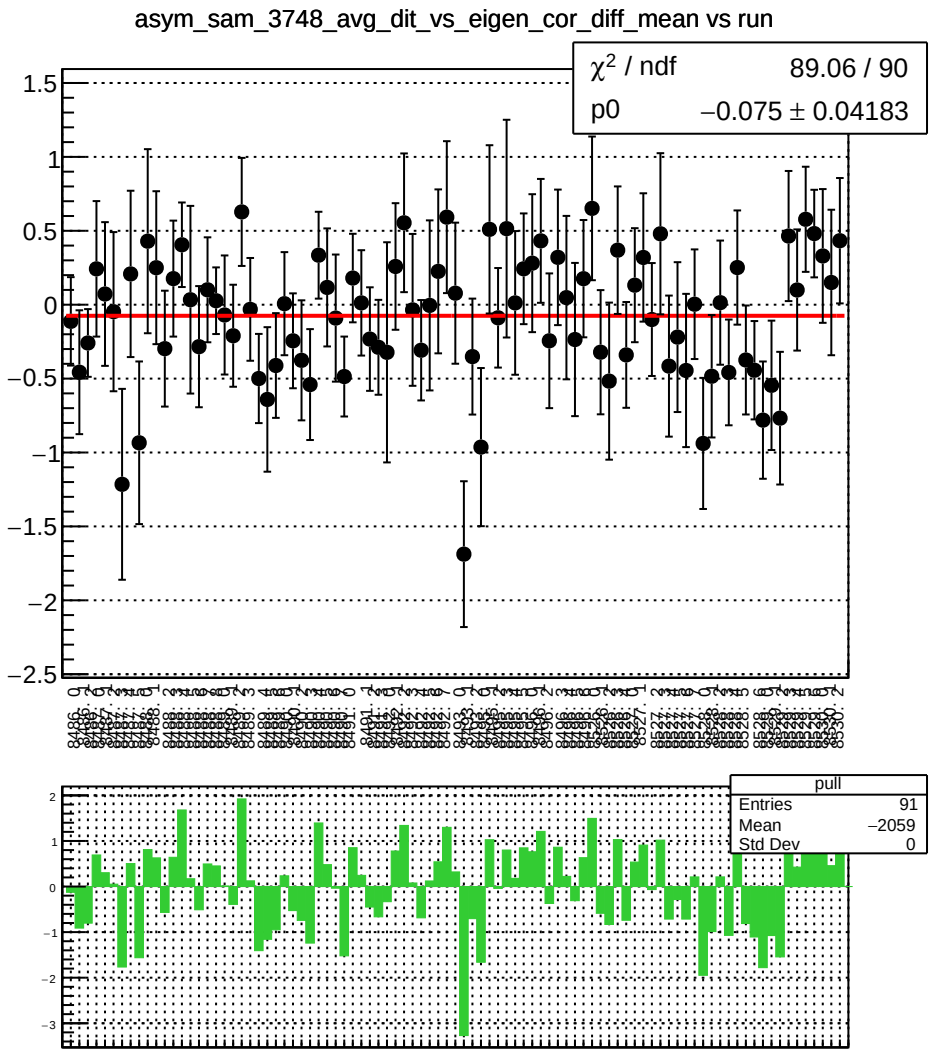

asym_sam_3748_avg_rms vs run
χ^2 / ndf 7087 / 90
p0 1619 ± 1.227
1900
1800
1700
1600
1500
1400

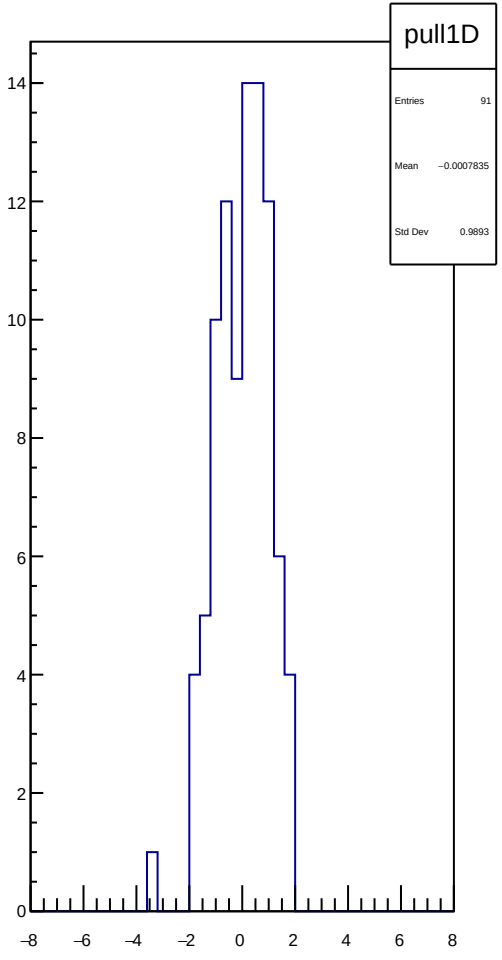

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 75.26 / 90
p0 −1.473e−13 ± 1.458e−13
pull
Entries 91
Mean −22.27
Std Dev 0
pull1D
Entries 91
Mean 0.04633
Std Dev 0.9082

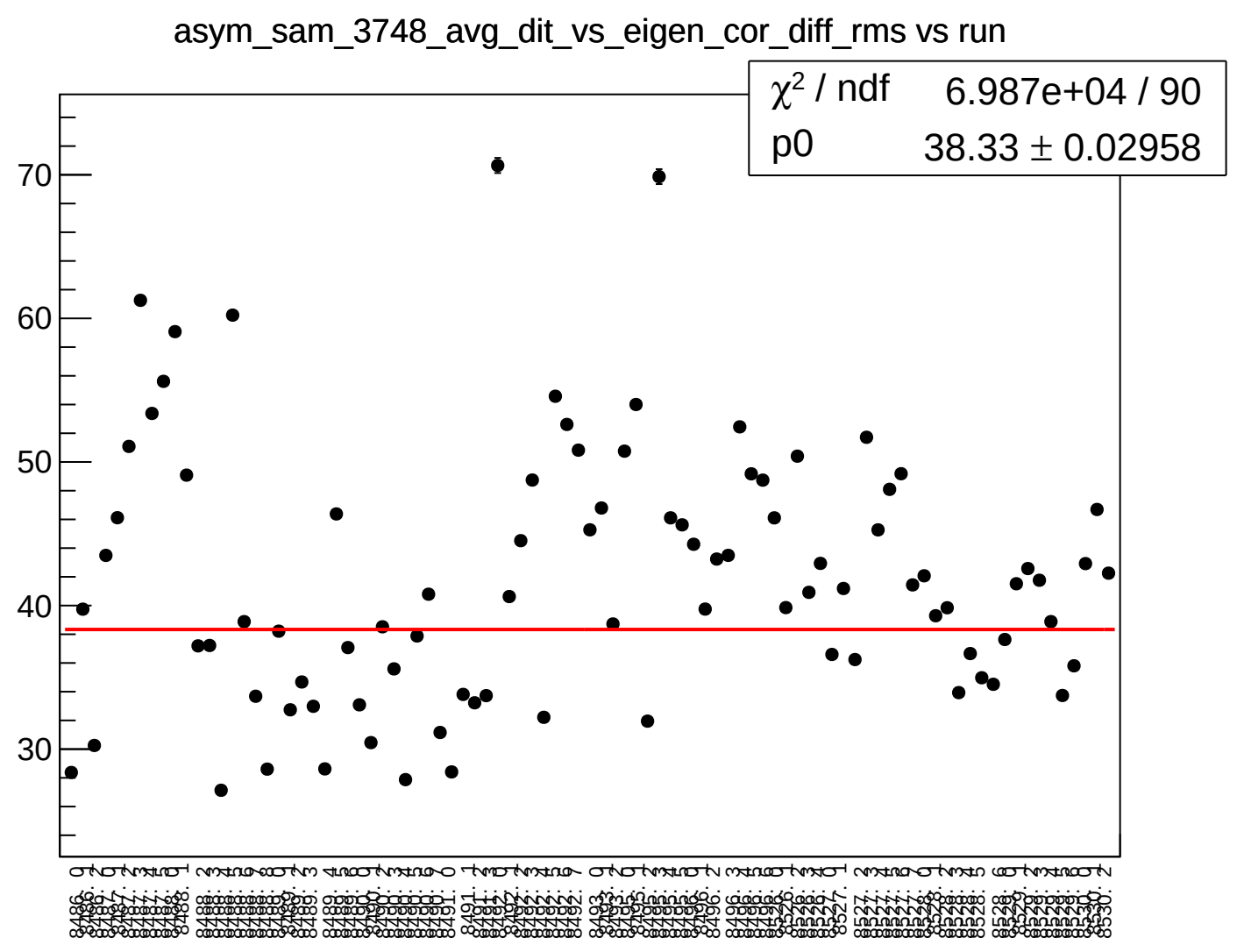

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.027e+06 / 90
p0 8.765e−11 ± 1.031e−13
0.1
0.08
0.06
0.04
0.02
0

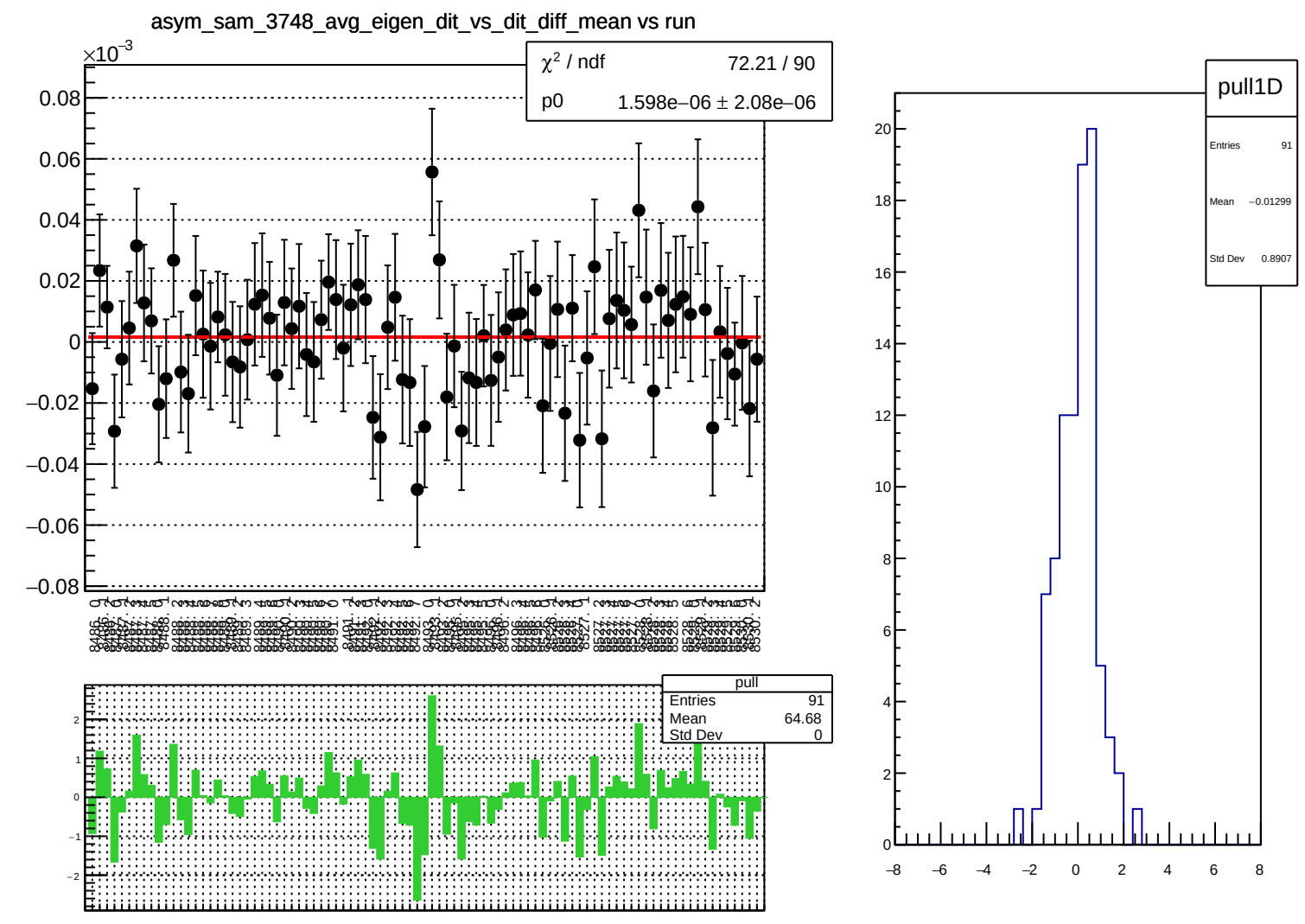

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 89.06 / 90
p0 −0.075 ± 0.04183
pull
Entries 91
Mean −2059
Std Dev 0
pull1D
Entries 91
Mean −0.0007835
Std Dev 0.9893

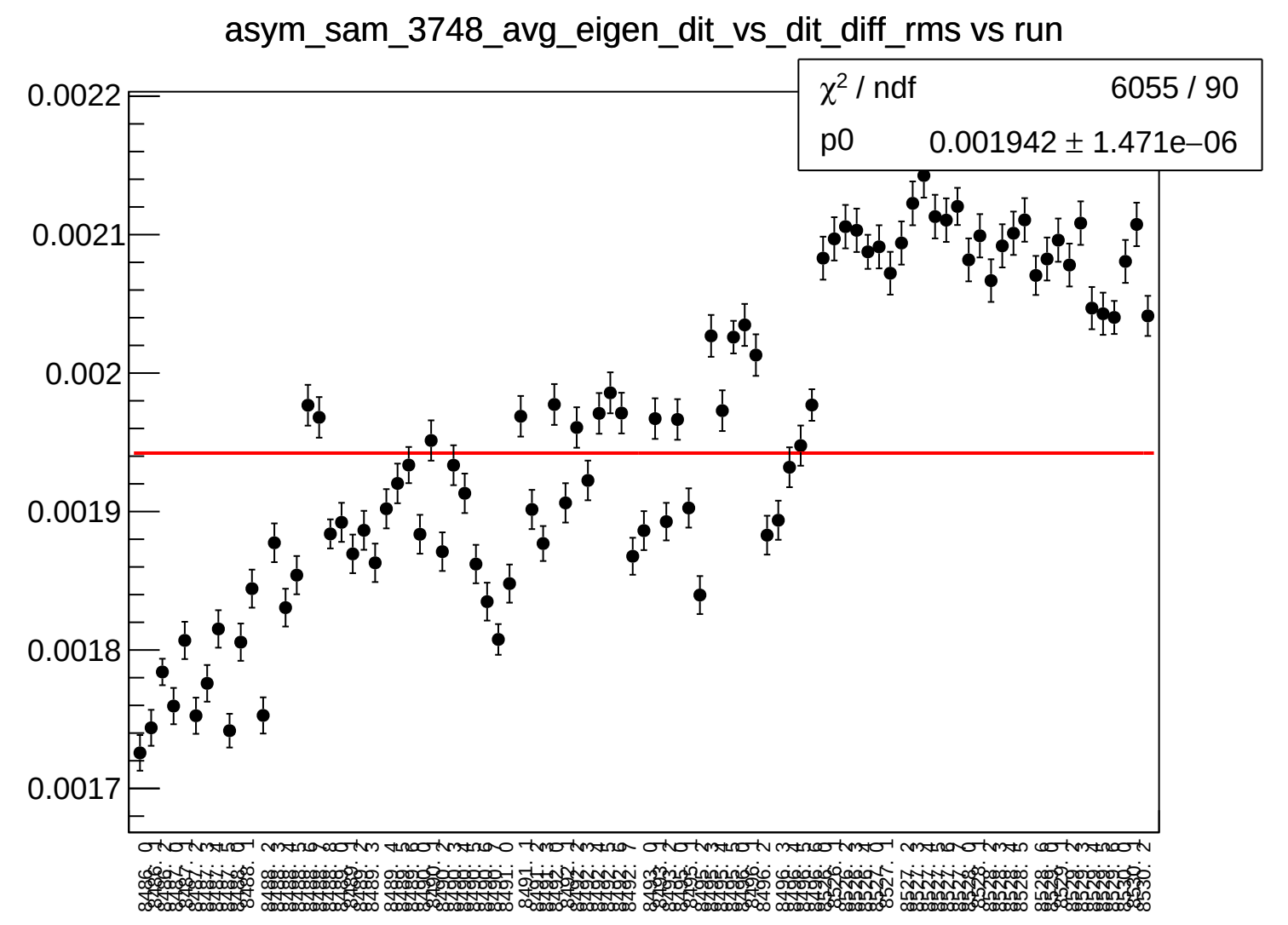

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6.987e+04 / 90
p0 38.33 ± 0.02958
70
60
50
40
30

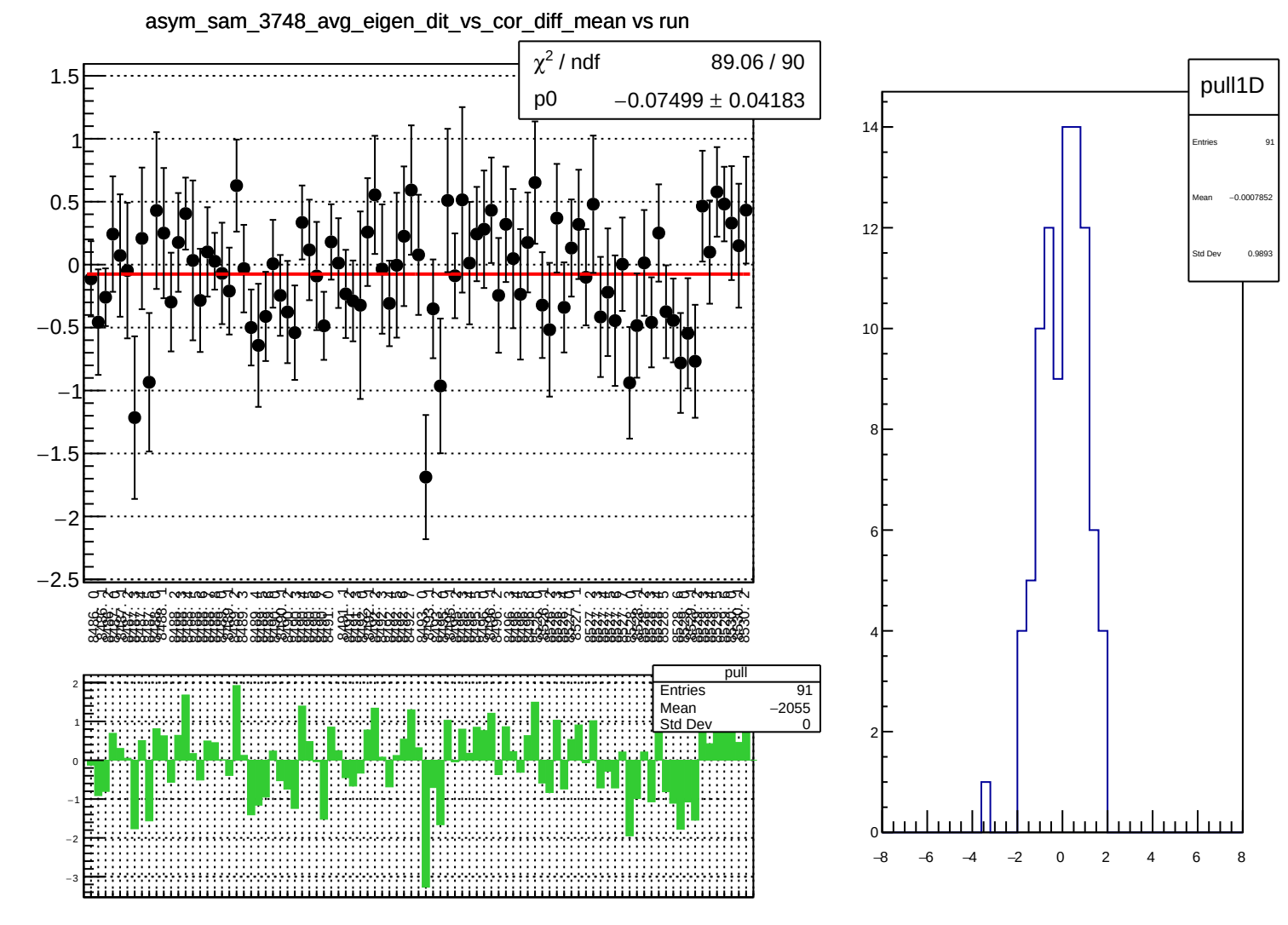

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.06 / 90
p0 −0.075 ± 0.04183
pull
Entries 91
Mean −2059
Std Dev 0

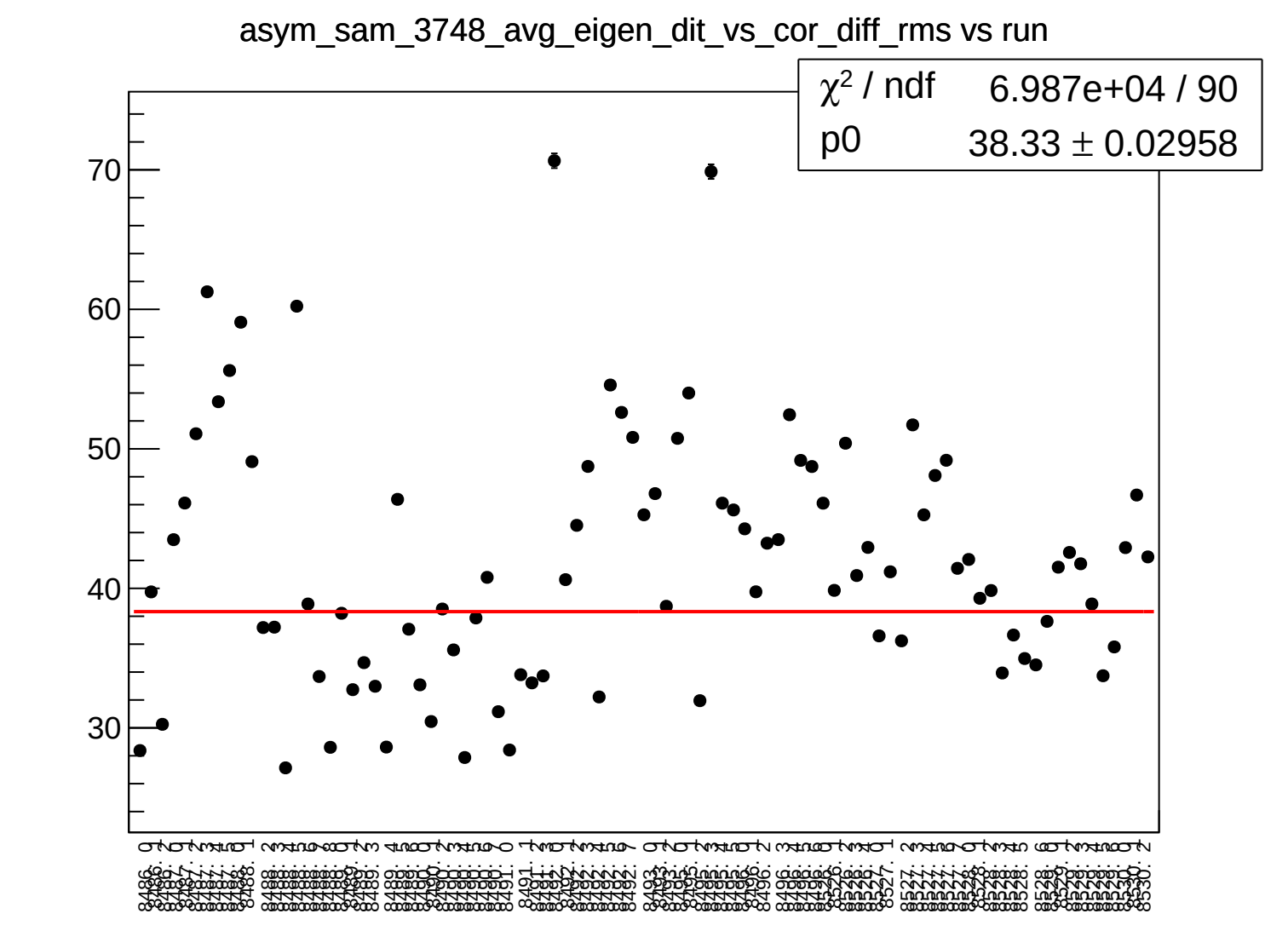

pull1D
Entries 91
Mean −0.0007835
Std Dev 0.9893

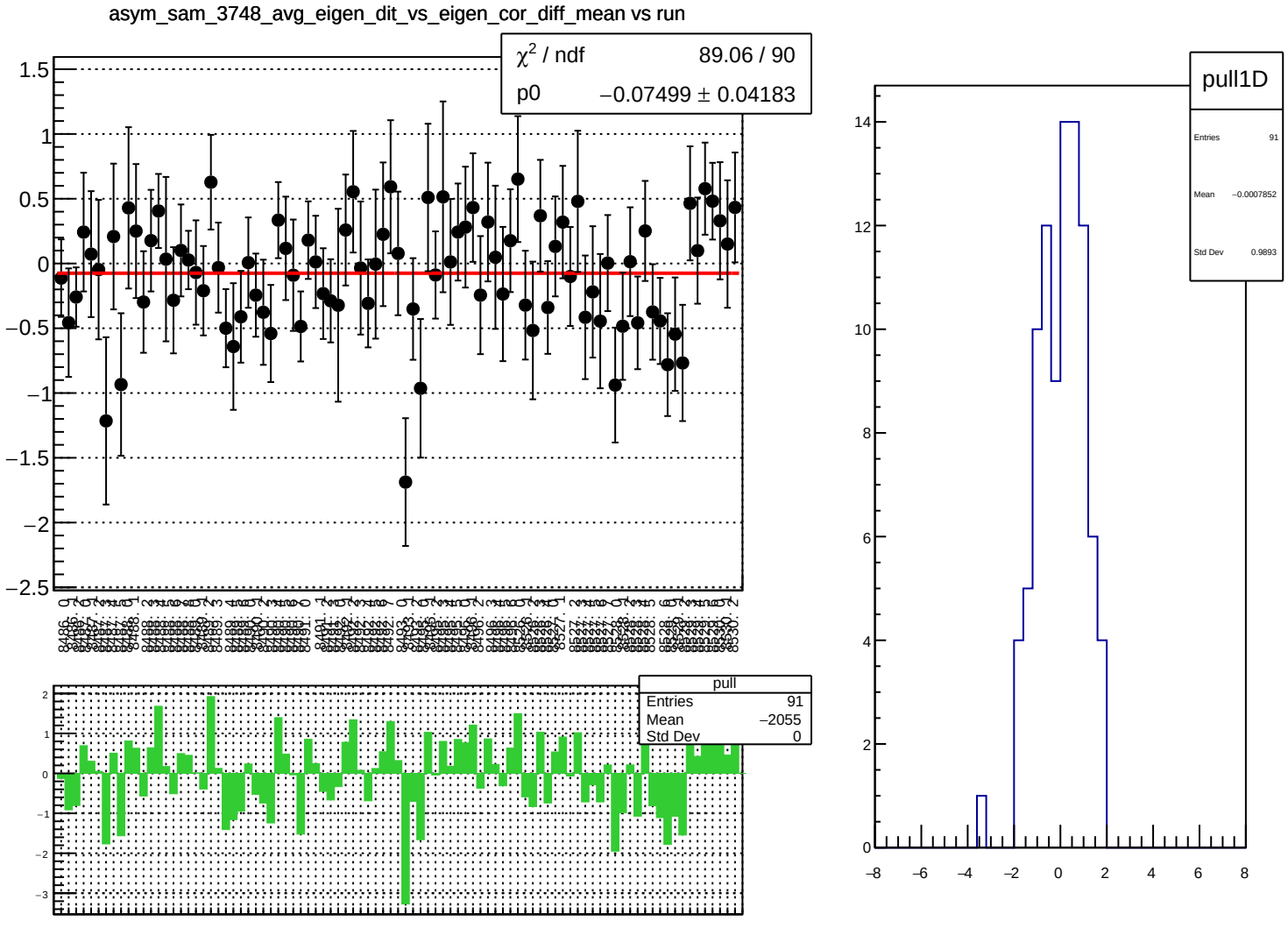

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 6.987e+04 / 90
p0 38.33 ± 0.02958
70
60
50
40
30

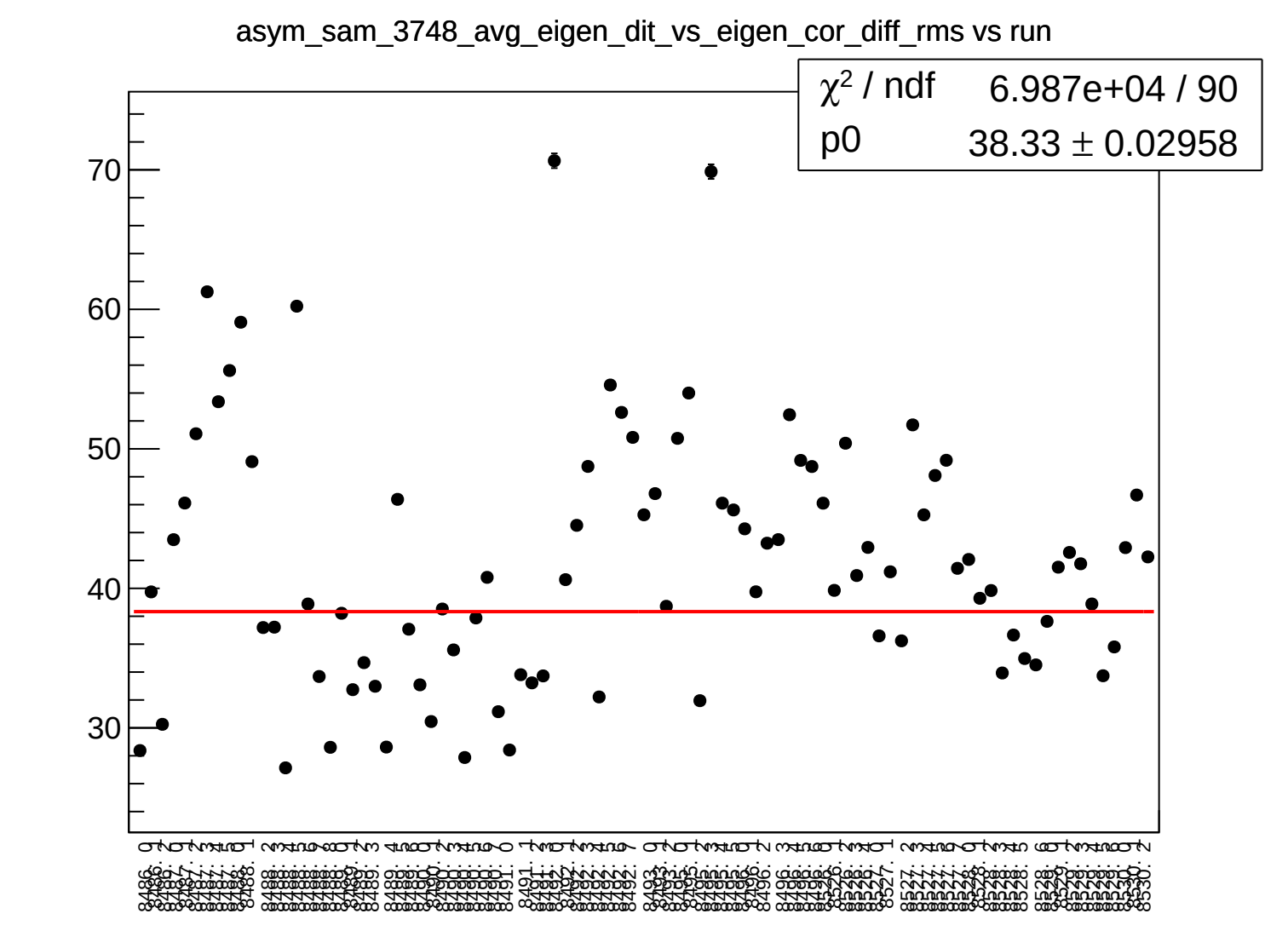

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.21 / 90
p0 1.598e−06 ± 2.08e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 91
Mean 64.68
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.01299
Std Dev 0.8907
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

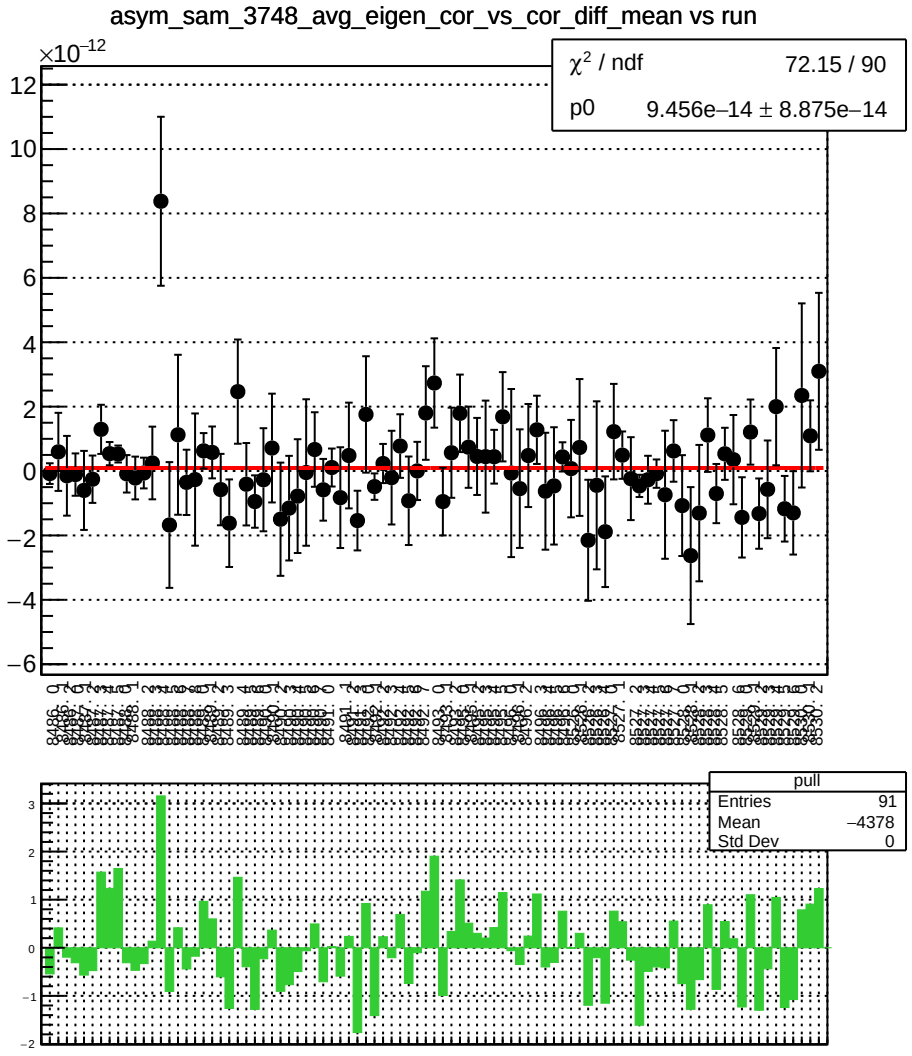

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6055 / 90
p0 0.001942 ± 1.471e−06
0.0022
0.0021
0.002
0.0019
0.0018
0.0017

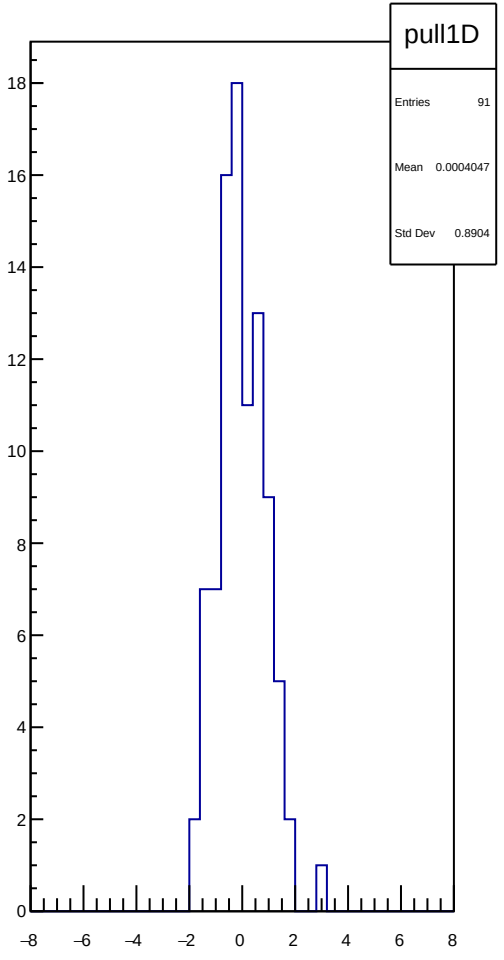

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.06 / 90
p0 −0.07499 ± 0.04183
pull
Entries 91
Mean −2055
Std Dev 0
pull1D
Entries 91
Mean −0.0007852
Std Dev 0.9893

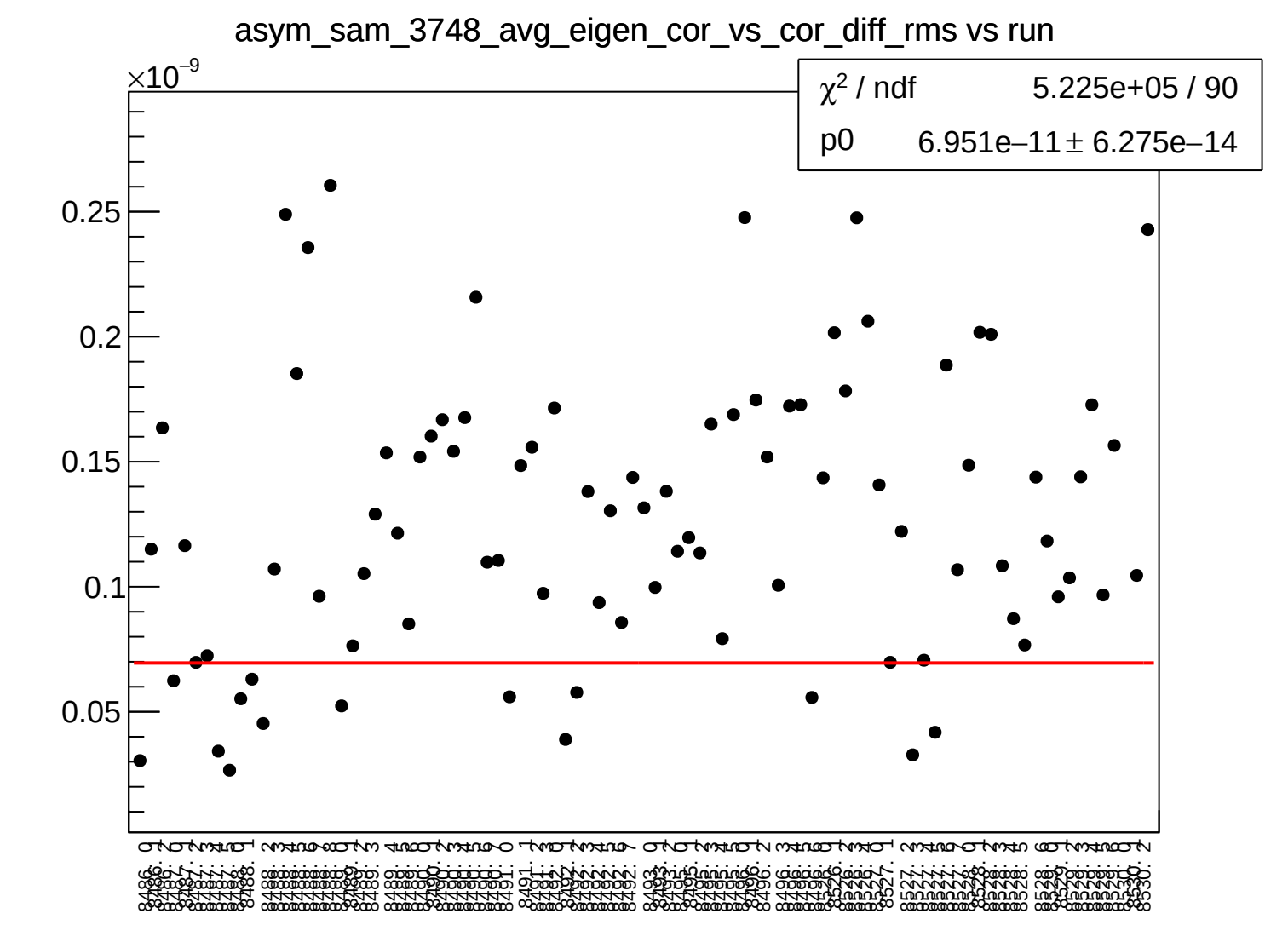

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6.987e+04 / 90
p0 38.33 ± 0.02958
70
60
50
40
30

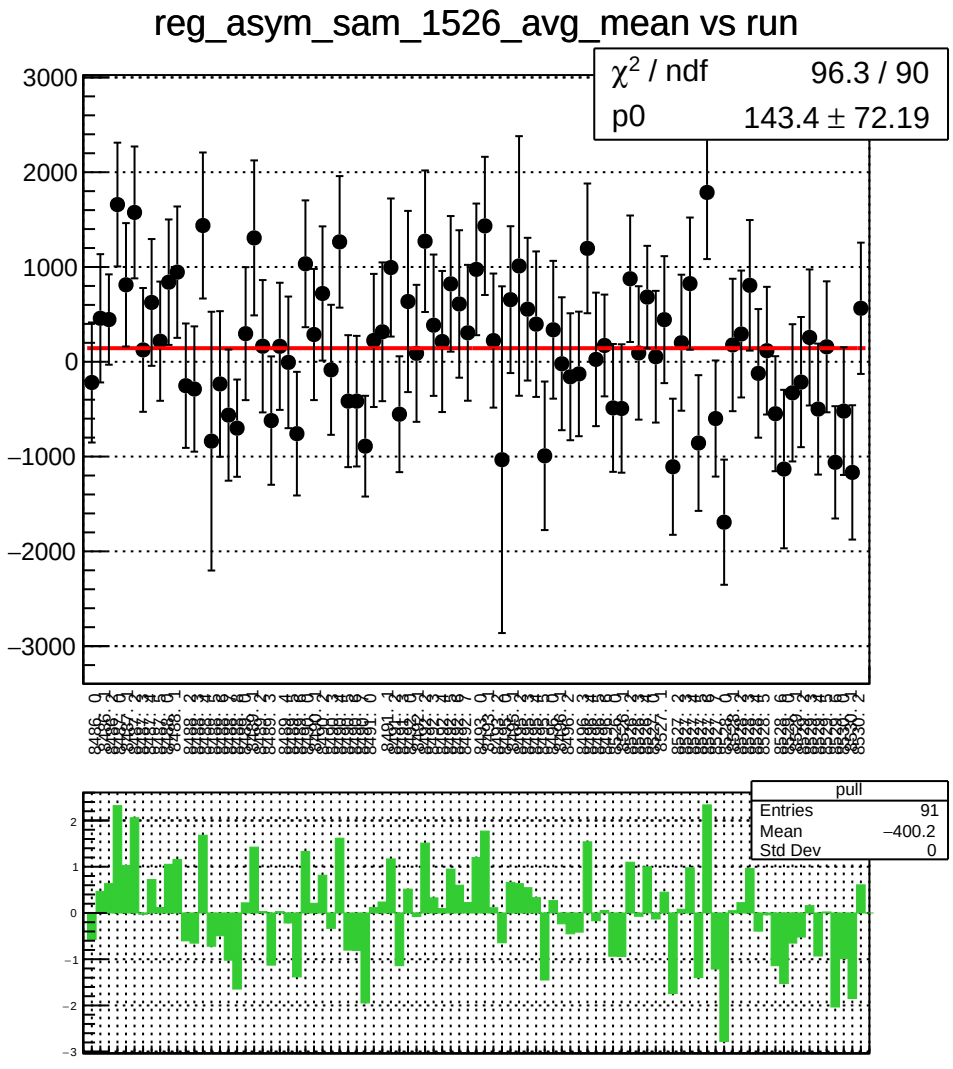

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.06 / 90
p0 −0.07499 ± 0.04183
pull
Entries 91
Mean −2055
Std Dev 0
pull1D
Entries 91
Mean −0.0007852
Std Dev 0.9893

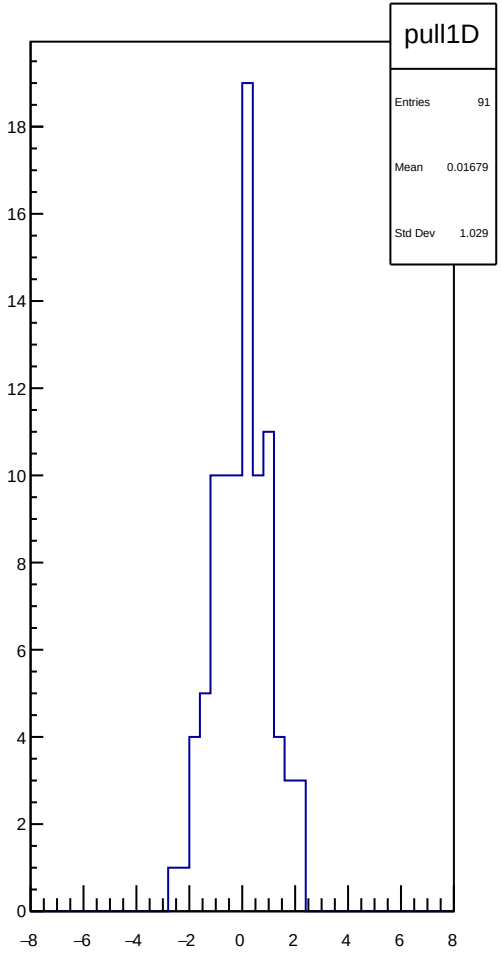

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 6.987e+04 / 90
p0 38.33 ± 0.02958
70
60
50
40
30

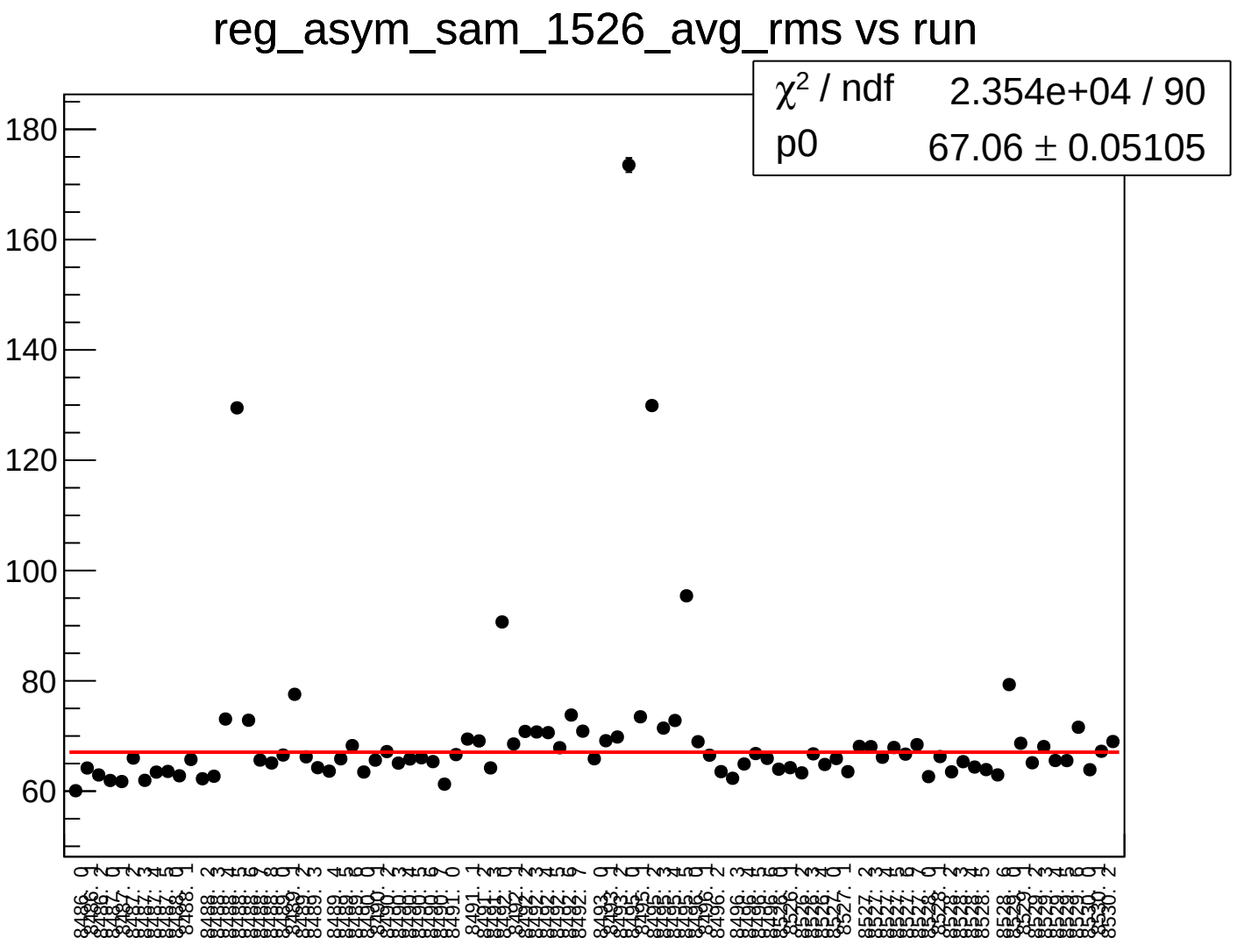

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.15 / 90
p0 9.456e−14 ± 8.875e−14
pull
Entries 91
Mean −4378
Std Dev 0

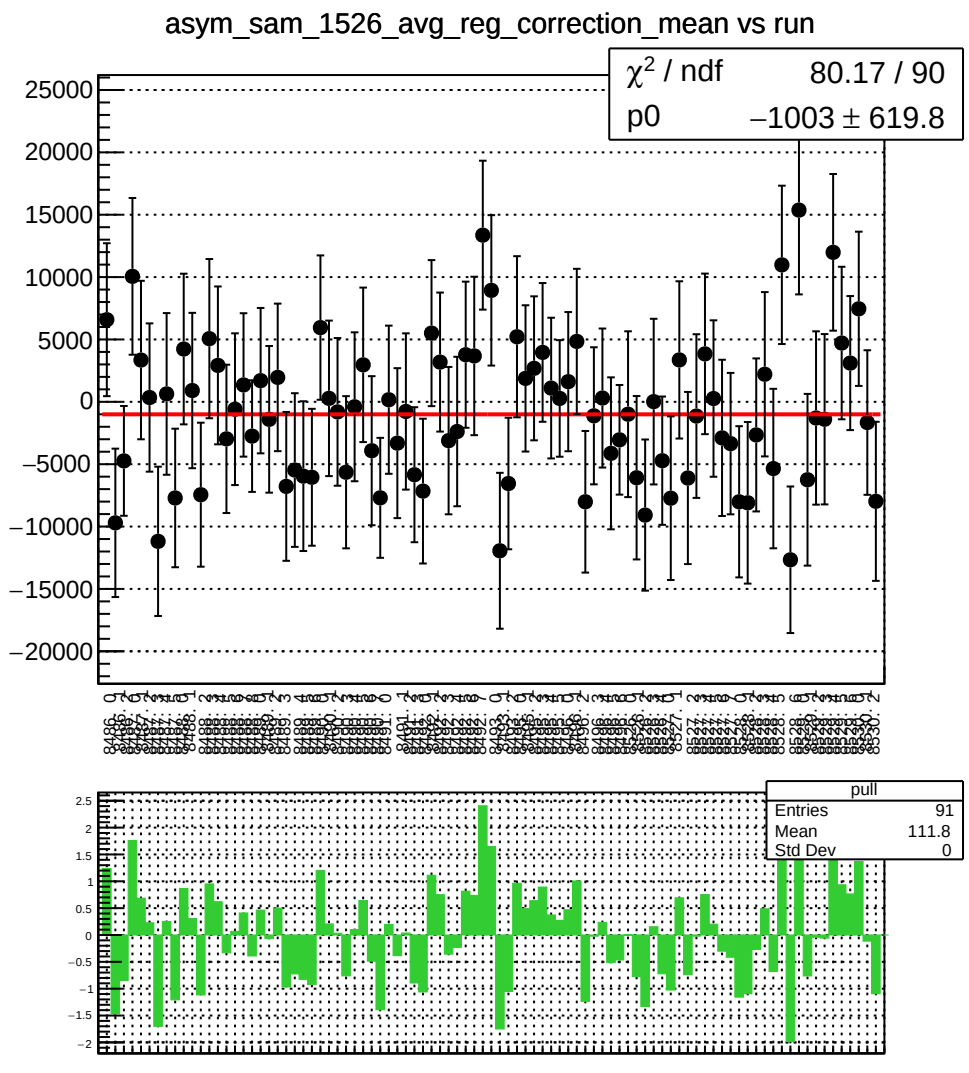

pull1D
Entries 91
Mean 0.0004047
Std Dev 0.8904

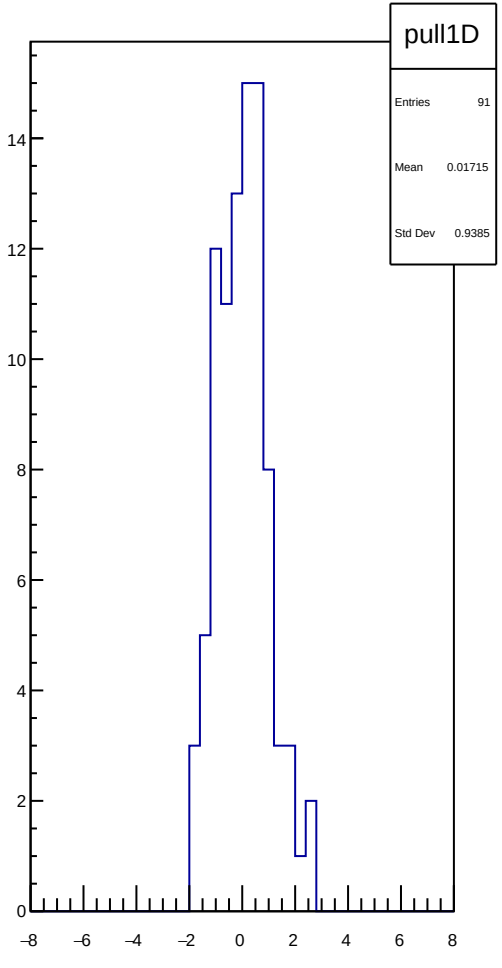

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.225e+05 / 90
p0 6.951e−11 ± 6.275e−14
0.25
0.2
0.15
0.1
0.05

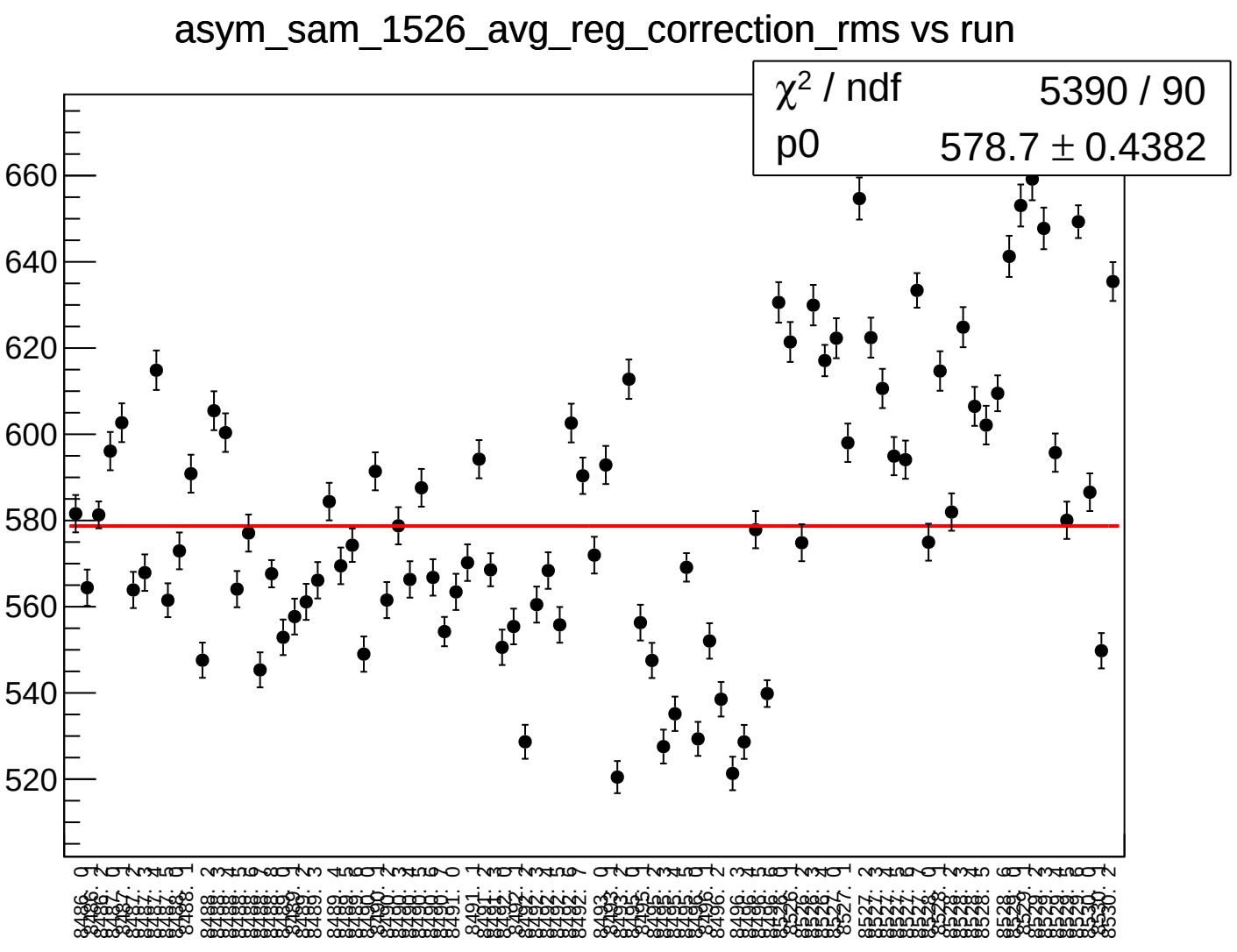

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 96.3 / 90
p0 143.4 ± 72.19
pull
Entries 91
Mean −400.2
Std Dev 0

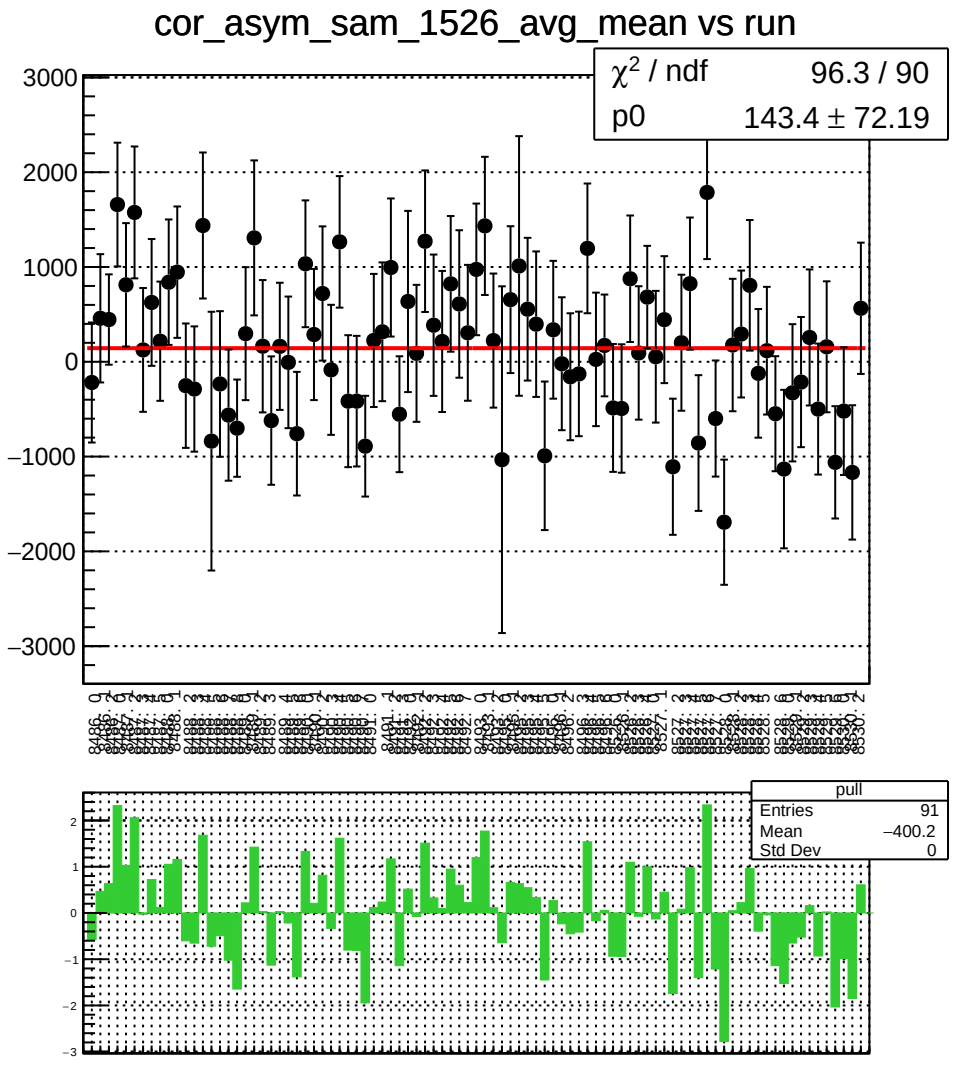

pull1D
Entries 91
Mean 0.01679
Std Dev 1.029

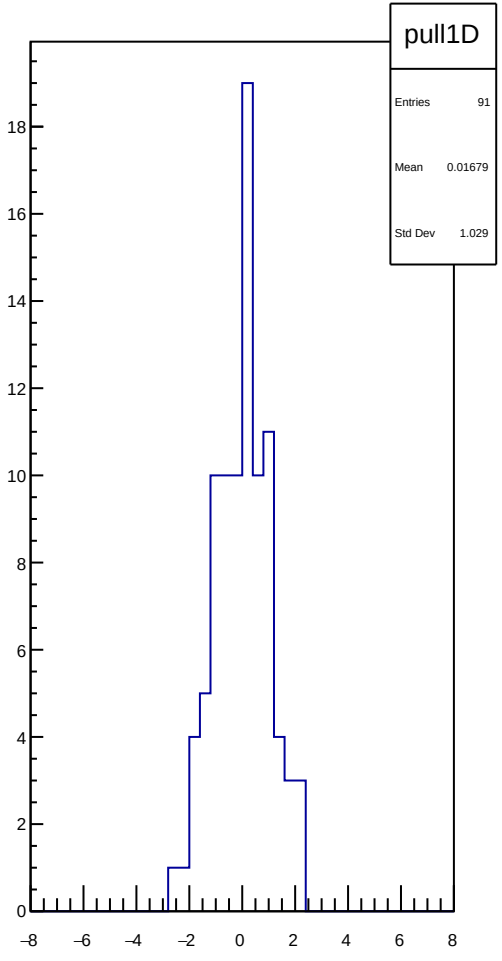

reg_asym_sam_1526_avg_rms vs run
χ² / ndf 2.354e+04 / 90
p0 67.06 ± 0.05105
180
160
140
120
100
80
60

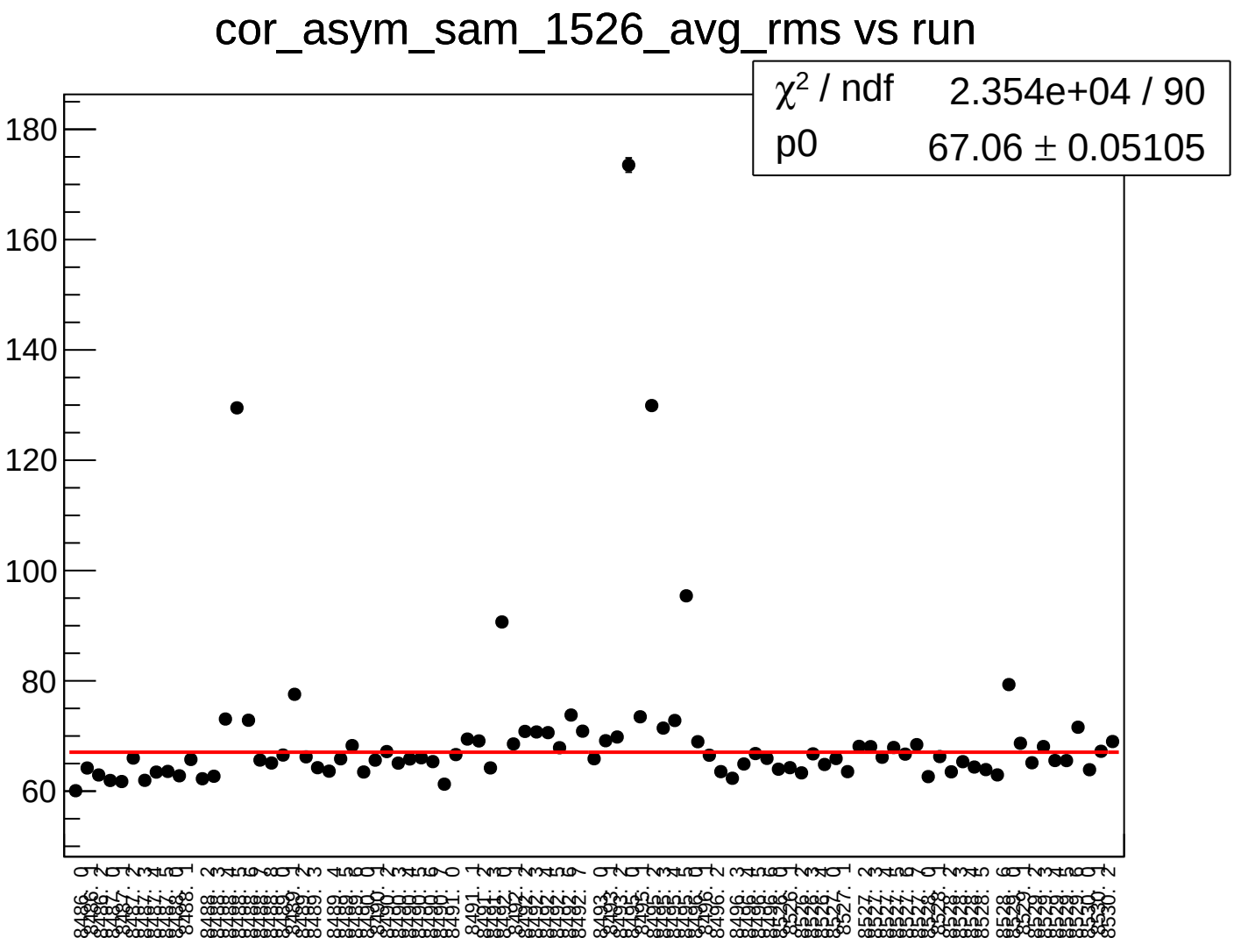

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 80.17 / 90
p0 −1003 ± 619.8
pull
Entries 91
Mean 111.8
Std Dev 0

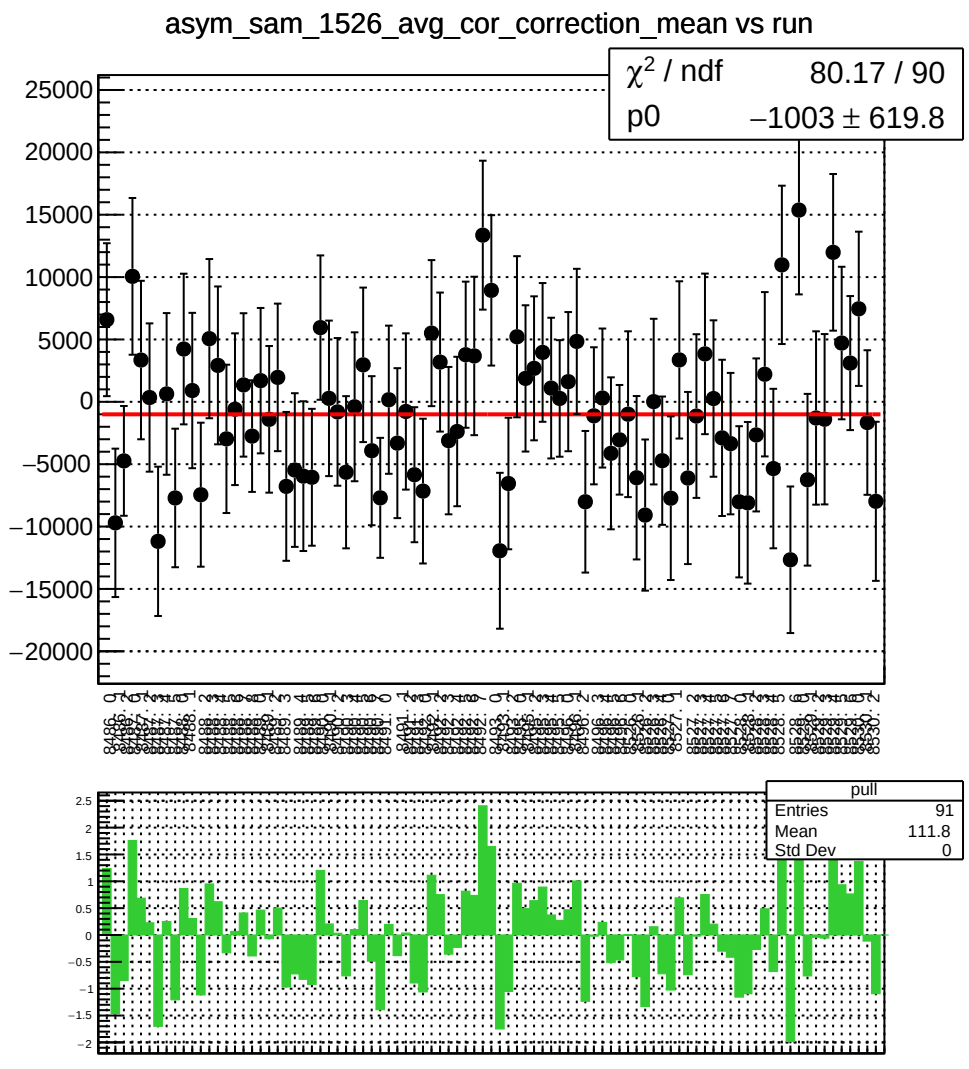

pull1D
Entries 91
Mean 0.01715
Std Dev 0.9385

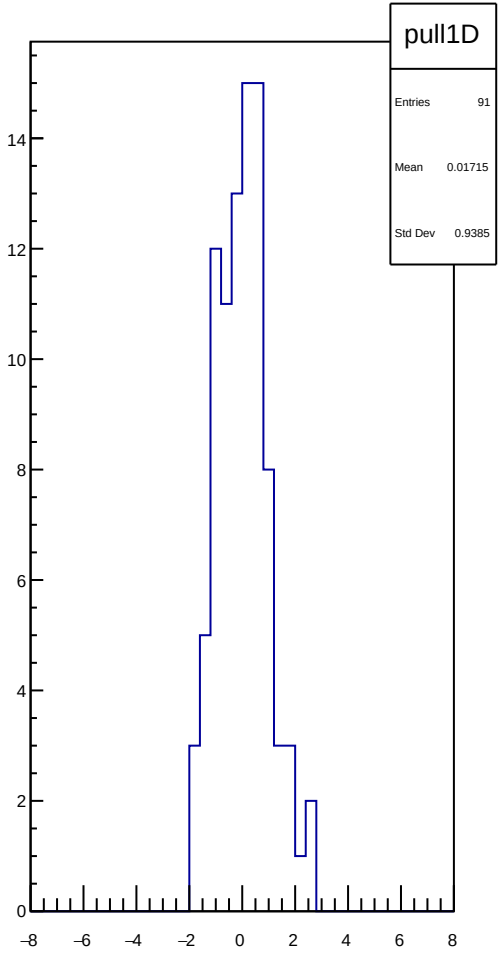

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 5390 / 90
p0 578.7 ± 0.4382
660
640
620
600
580
560
540
520

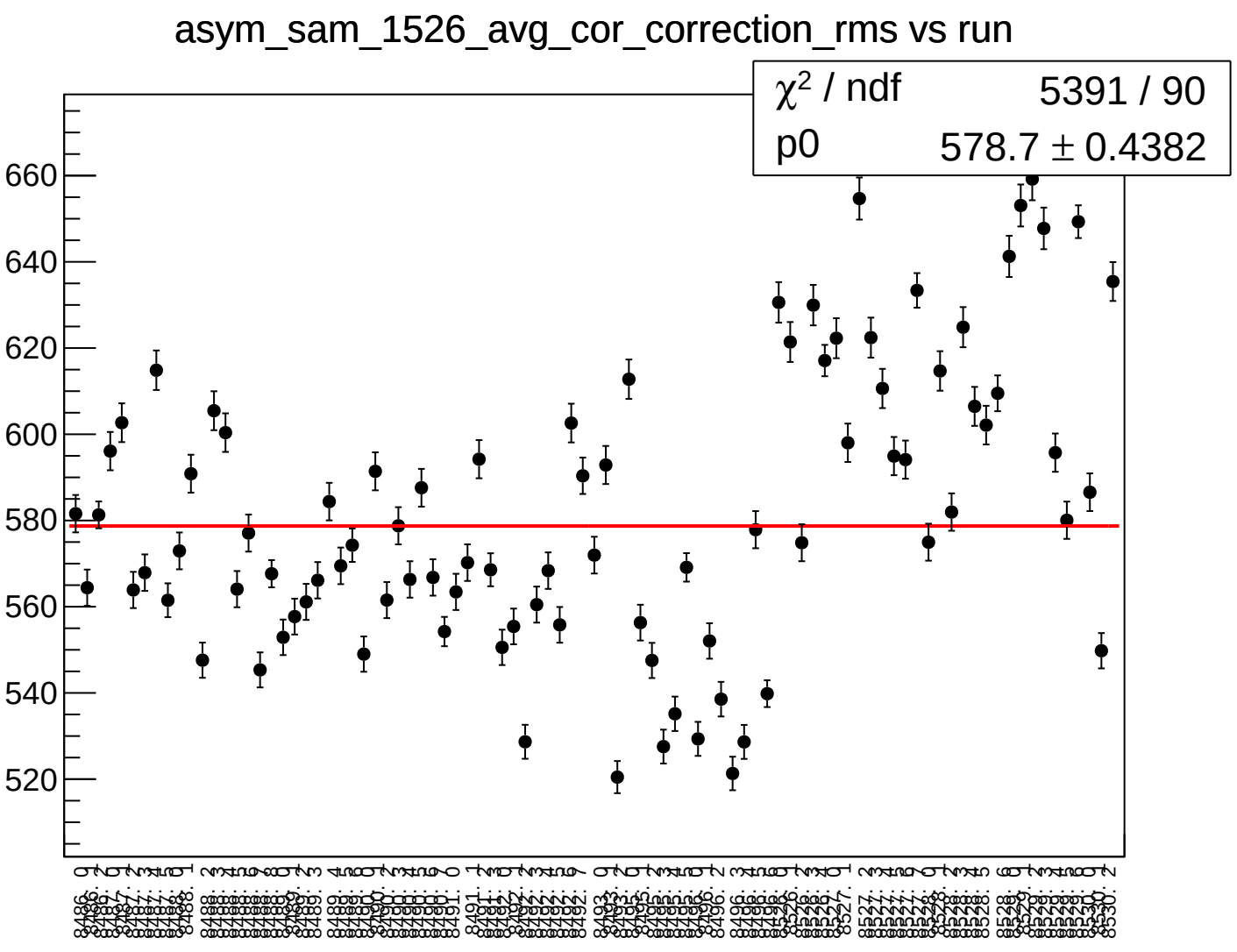

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 96.3 / 90
p0 143.4 ± 72.19
pull
Entries 91
Mean −400.2
Std Dev 0

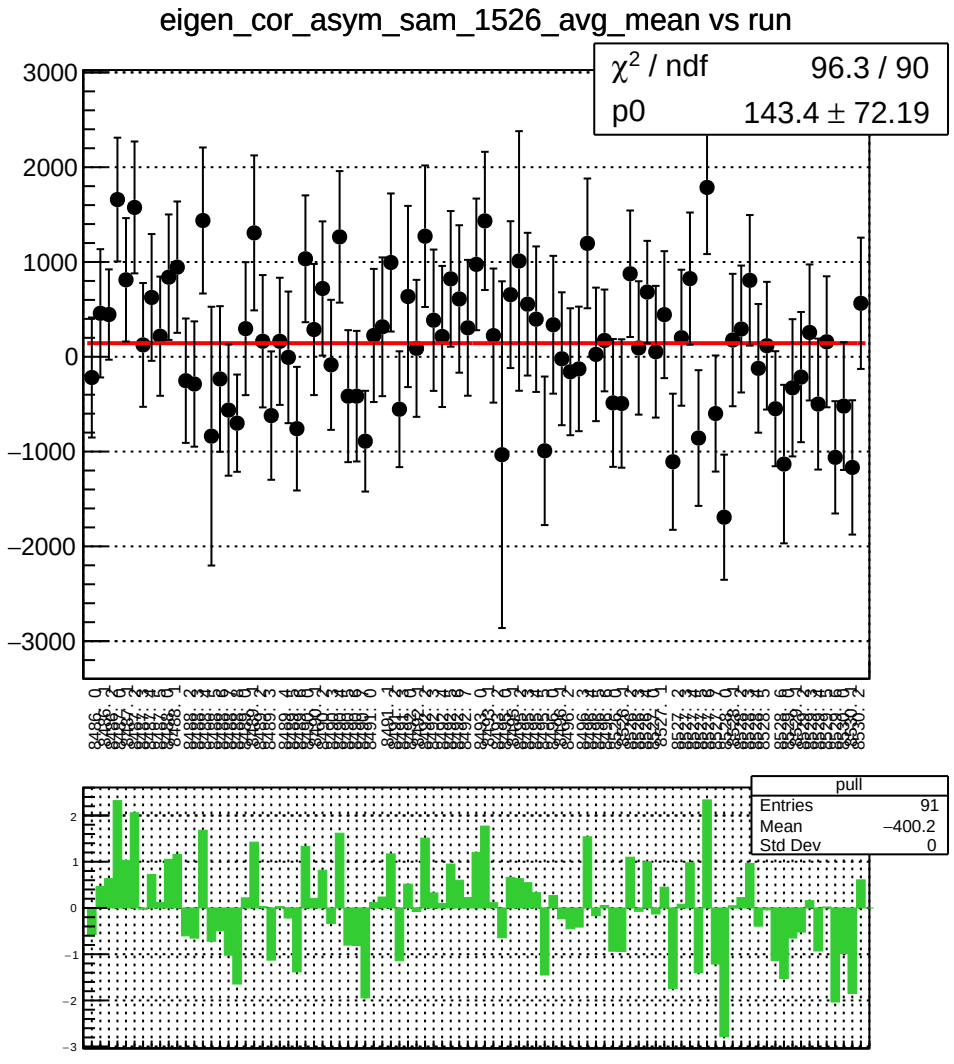

pull1D
Entries 91
Mean 0.01679
Std Dev 1.029

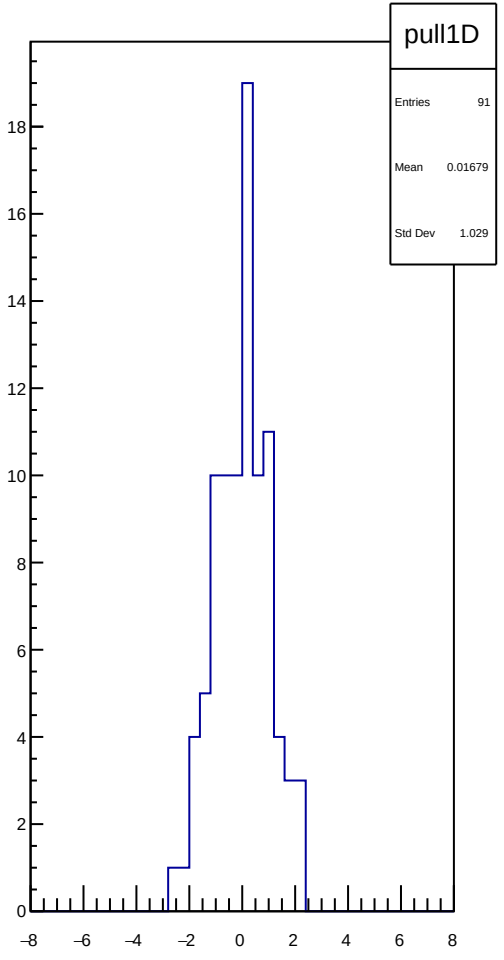

cor_asym_sam_1526_avg_rms vs run
χ^2 / ndf 2.354e+04 / 90
p0 67.06 ± 0.05105
180
160
140
120
100
80
60

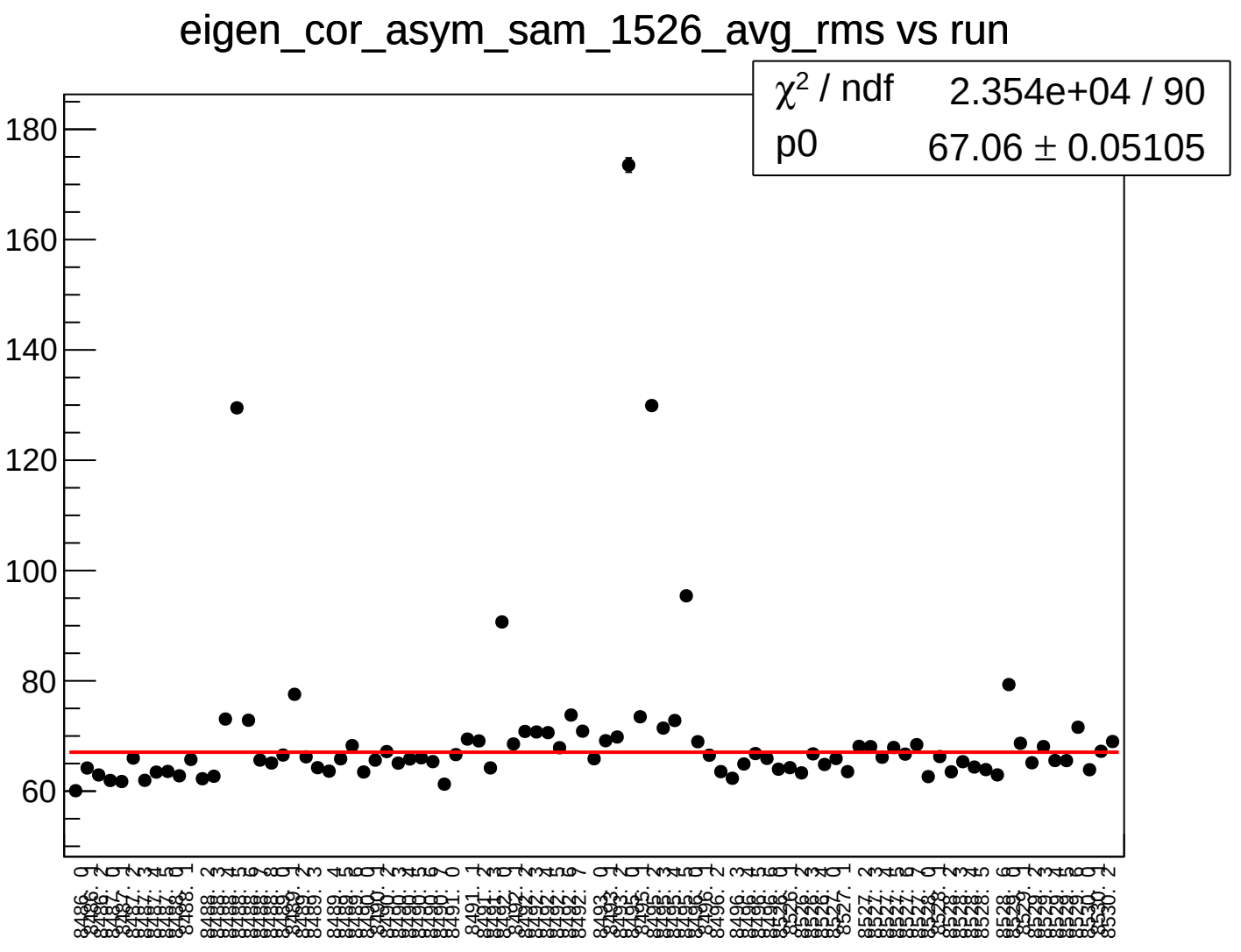

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 80.17 / 90
p0 −1003 ± 619.8
pull
Entries 91
Mean 111.8
Std Dev 0

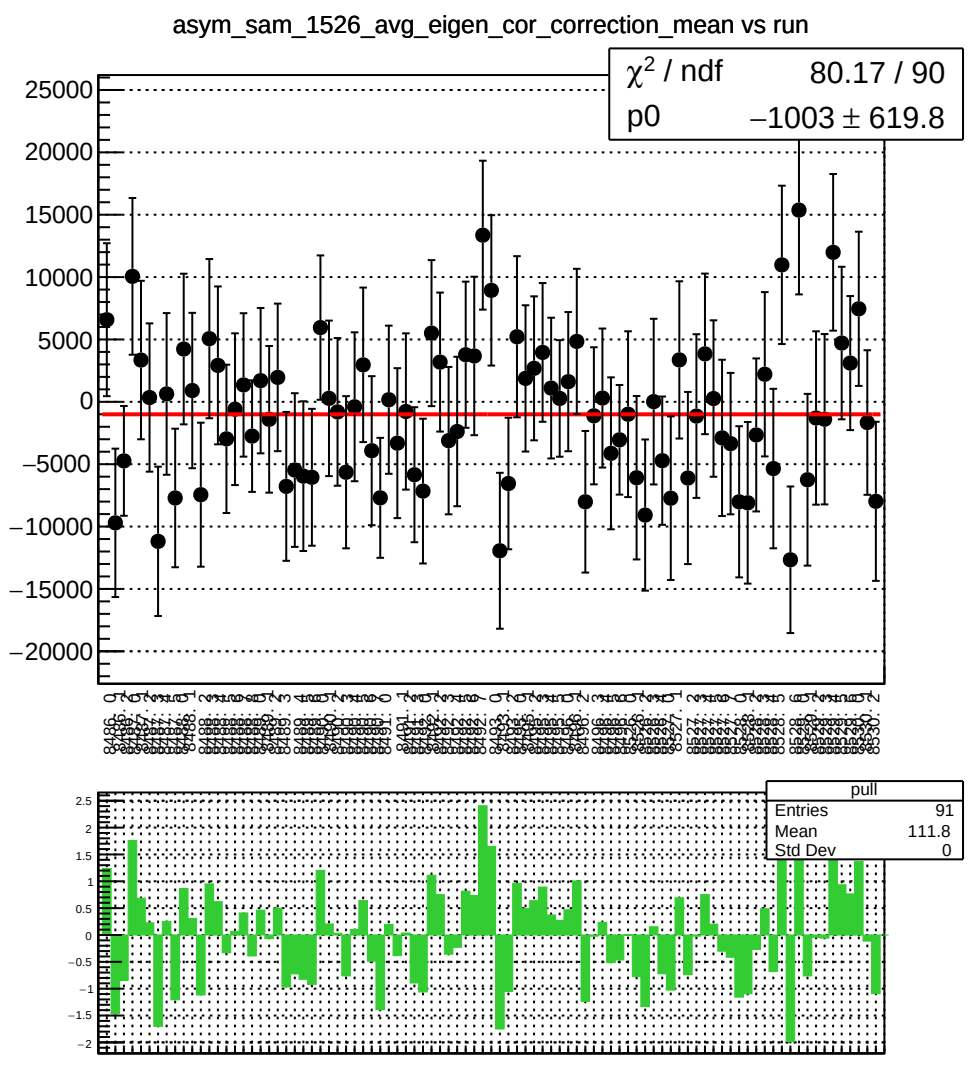

pull1D
Entries 91
Mean 0.01715
Std Dev 0.9385

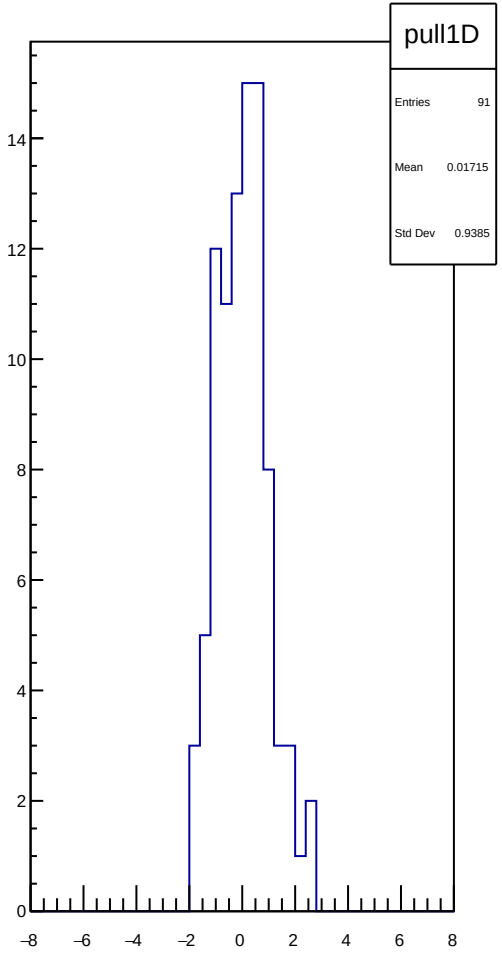

asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 5391 / 90
p0 578.7 ± 0.4382
660
640
620
600
580
560
540
520

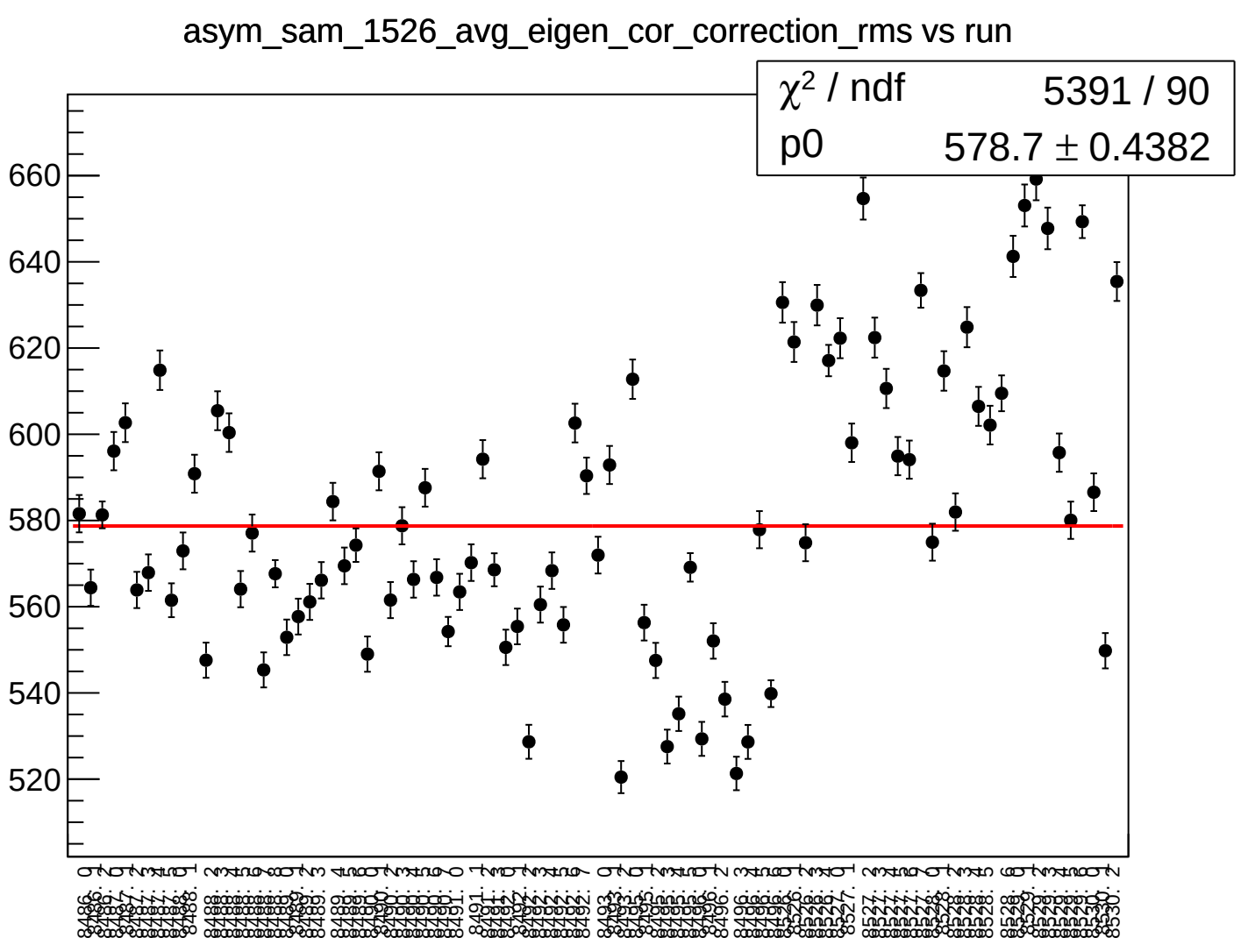

eigen_cor_asym_sam_1526_avg_mean vs run
χ^2 / ndf 96.3 / 90
p0 143.4 ± 72.19
pull
Entries 91
Mean −400.2
Std Dev 0

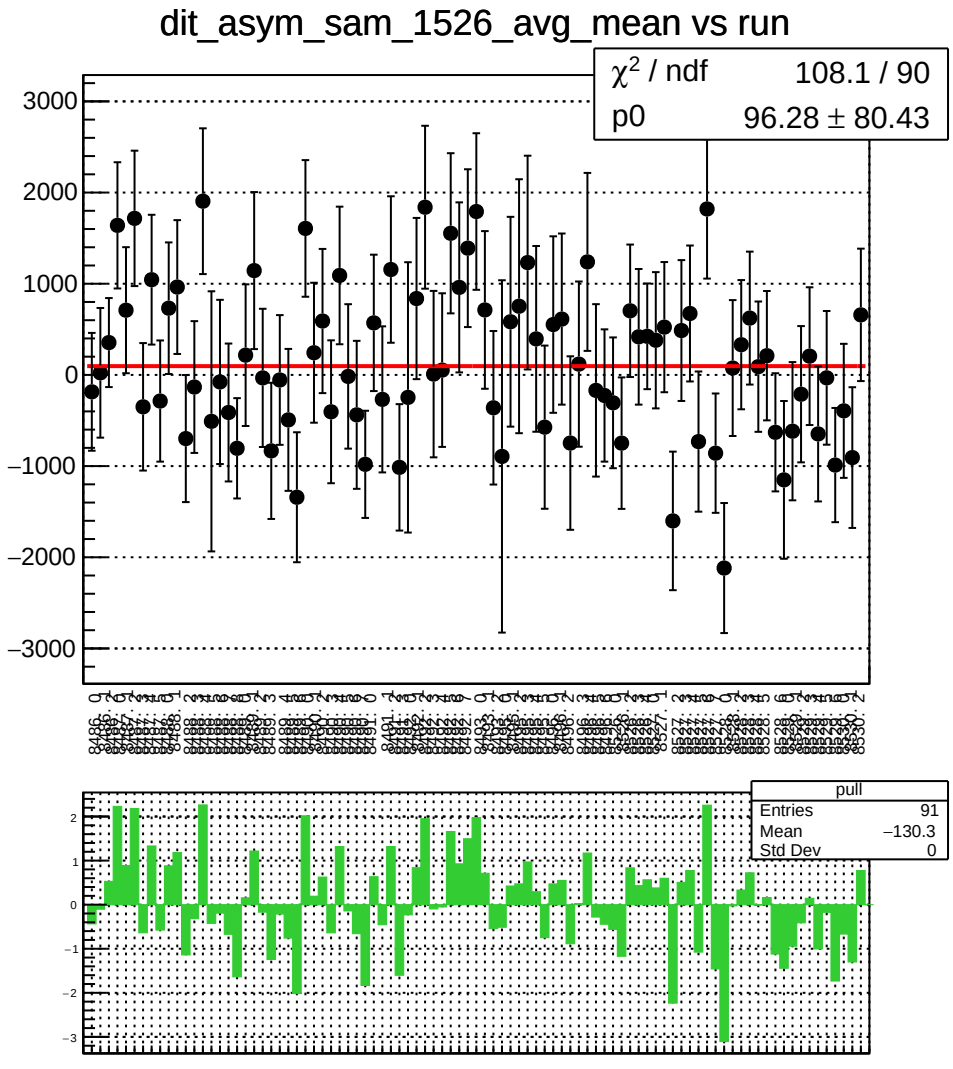

pull1D
Entries 91
Mean 0.01679
Std Dev 1.029

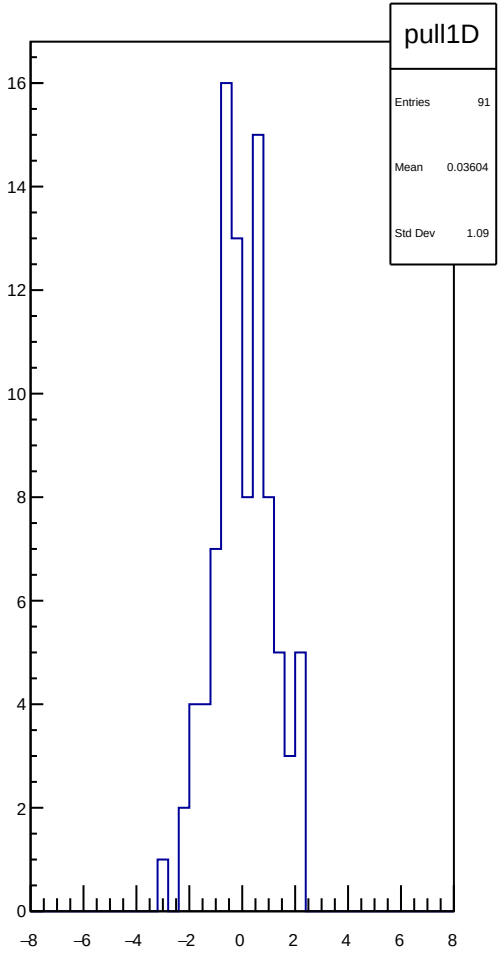

eigen_cor_asym_sam_1526_avg_rms vs run
χ² / ndf 2.354e+04 / 90
p0 67.06 ± 0.05105
180
160
140
120
100
80
60

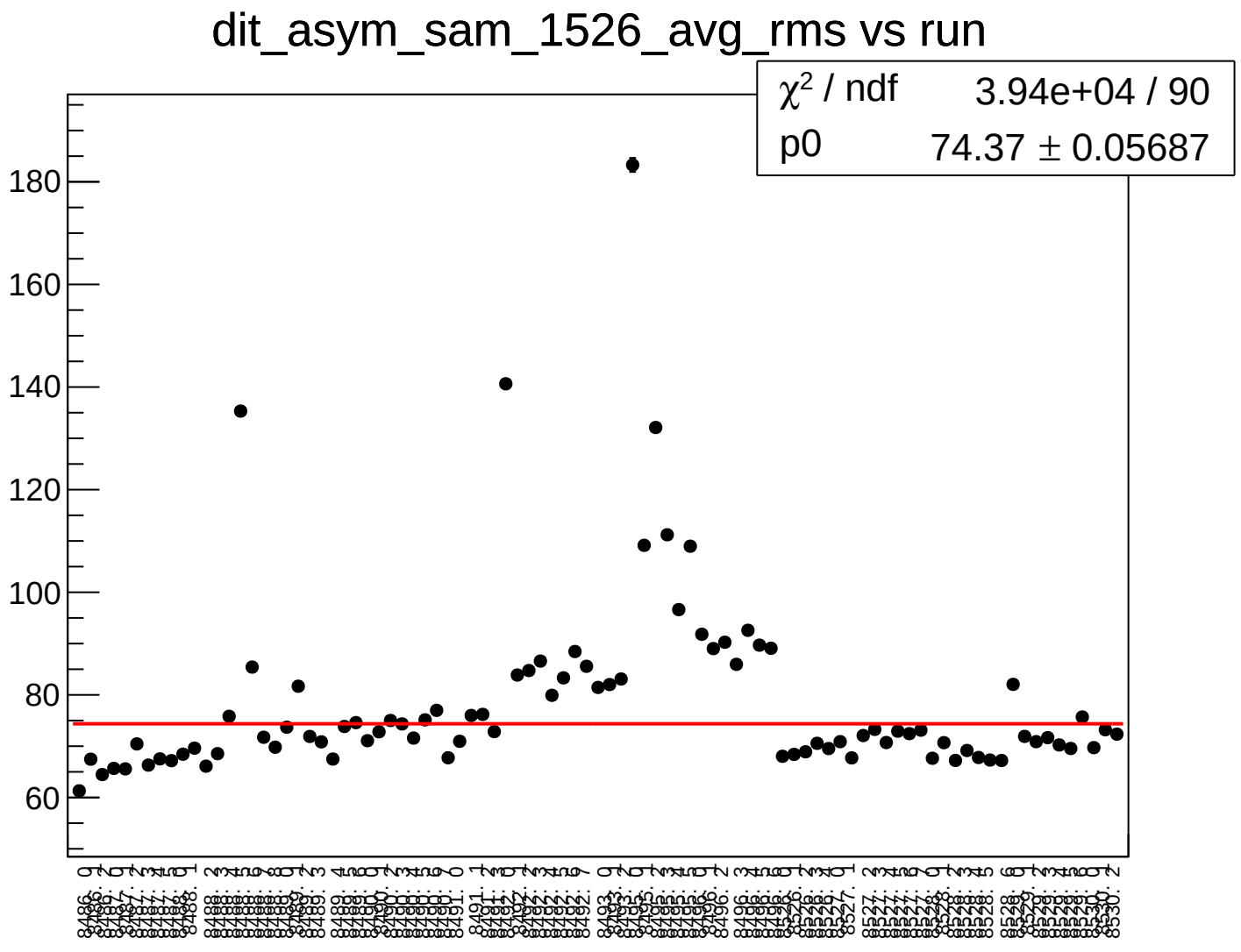

asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 80.17 / 90
p0 −1003 ± 619.8
pull
Entries 91
Mean 111.8
Std Dev 0

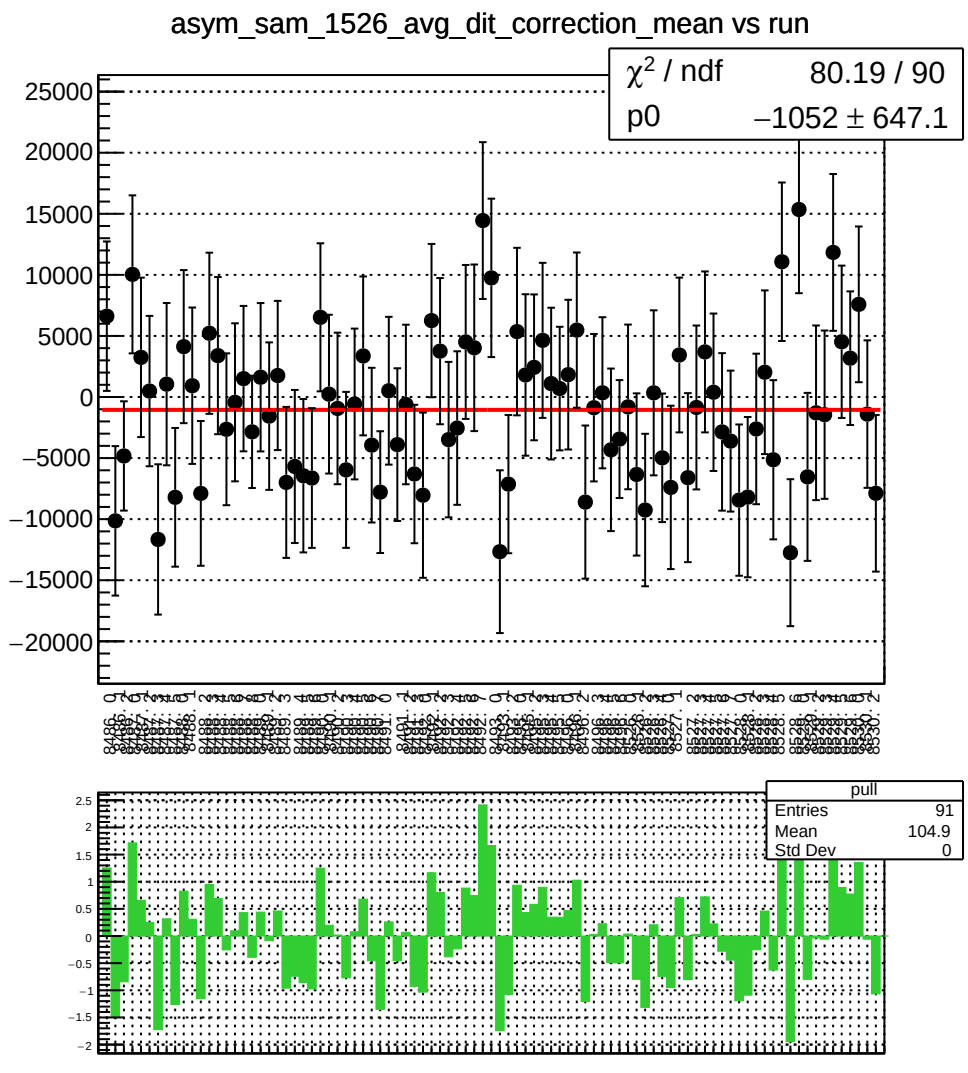

pull1D
Entries 91
Mean 0.01715
Std Dev 0.9385

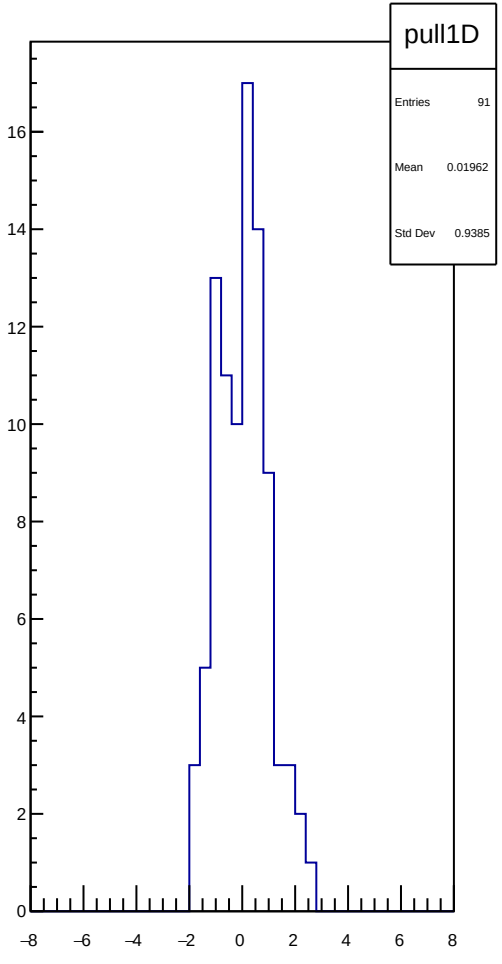

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 5391 / 90
p0 578.7 ± 0.4382
660
640
620
600
580
560
540
520

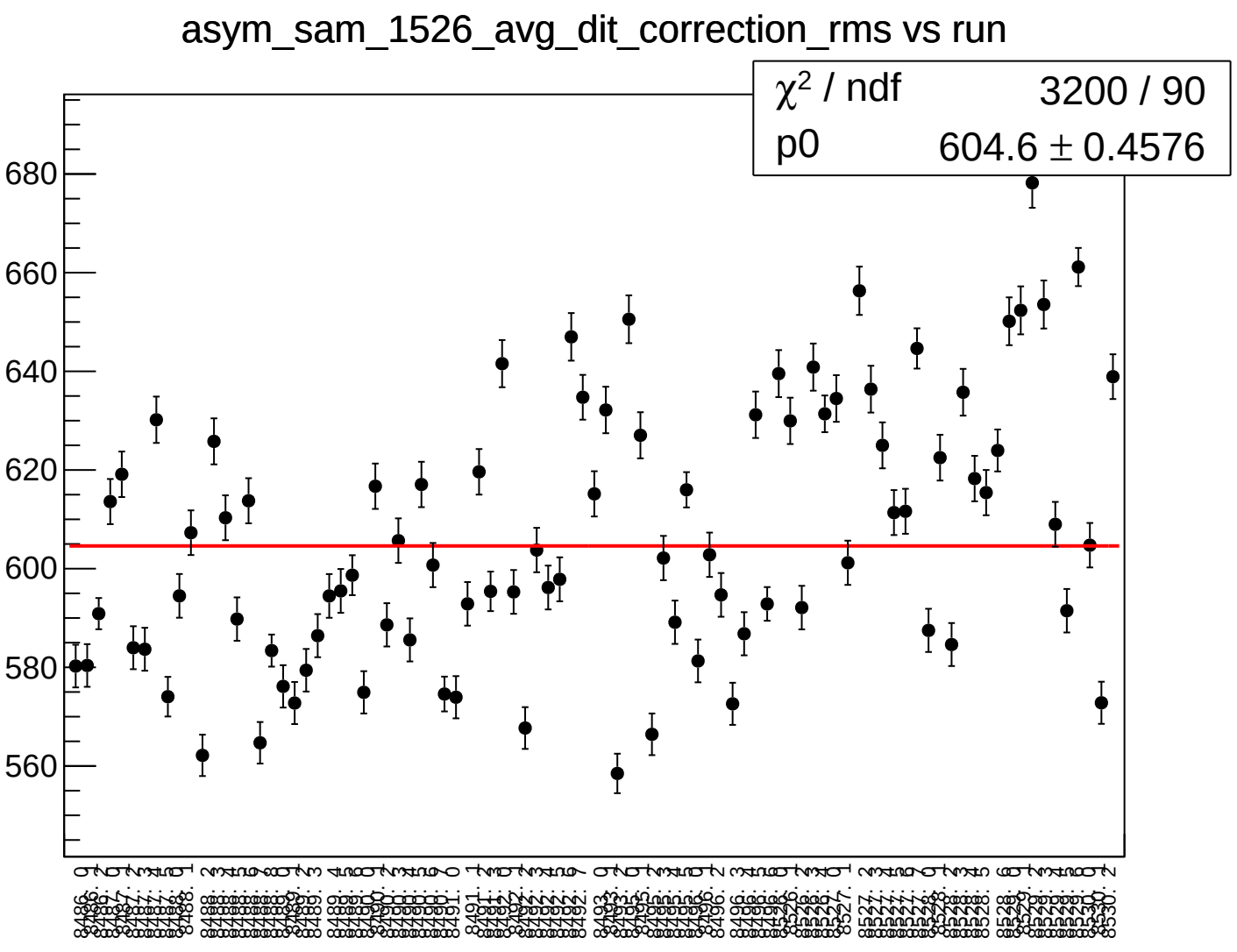

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 108.1 / 90
p0 96.28 ± 80.43
pull
Entries 91
Mean −130.3
Std Dev 0

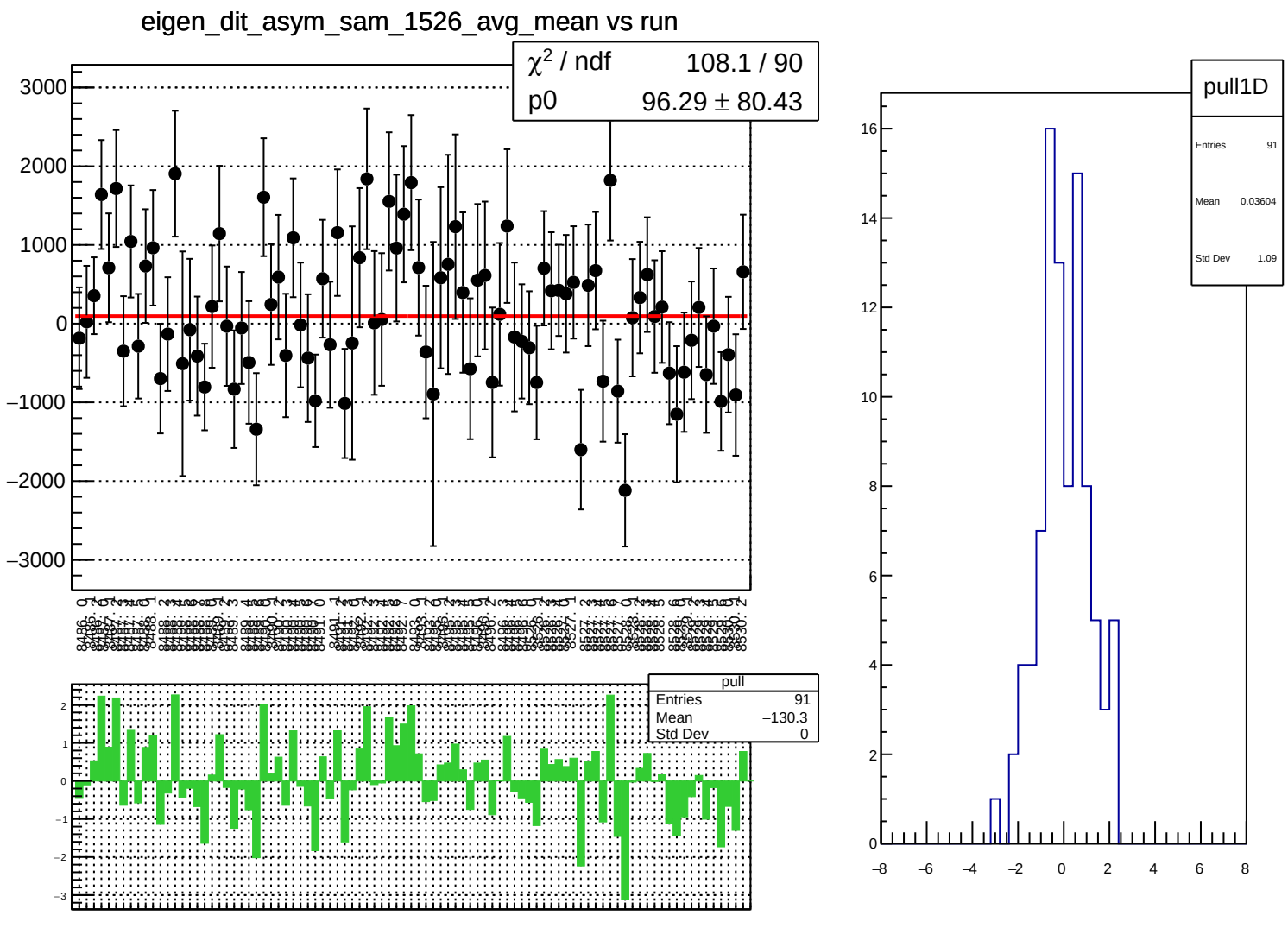

pull1D
Entries 91
Mean 0.03604
Std Dev 1.09

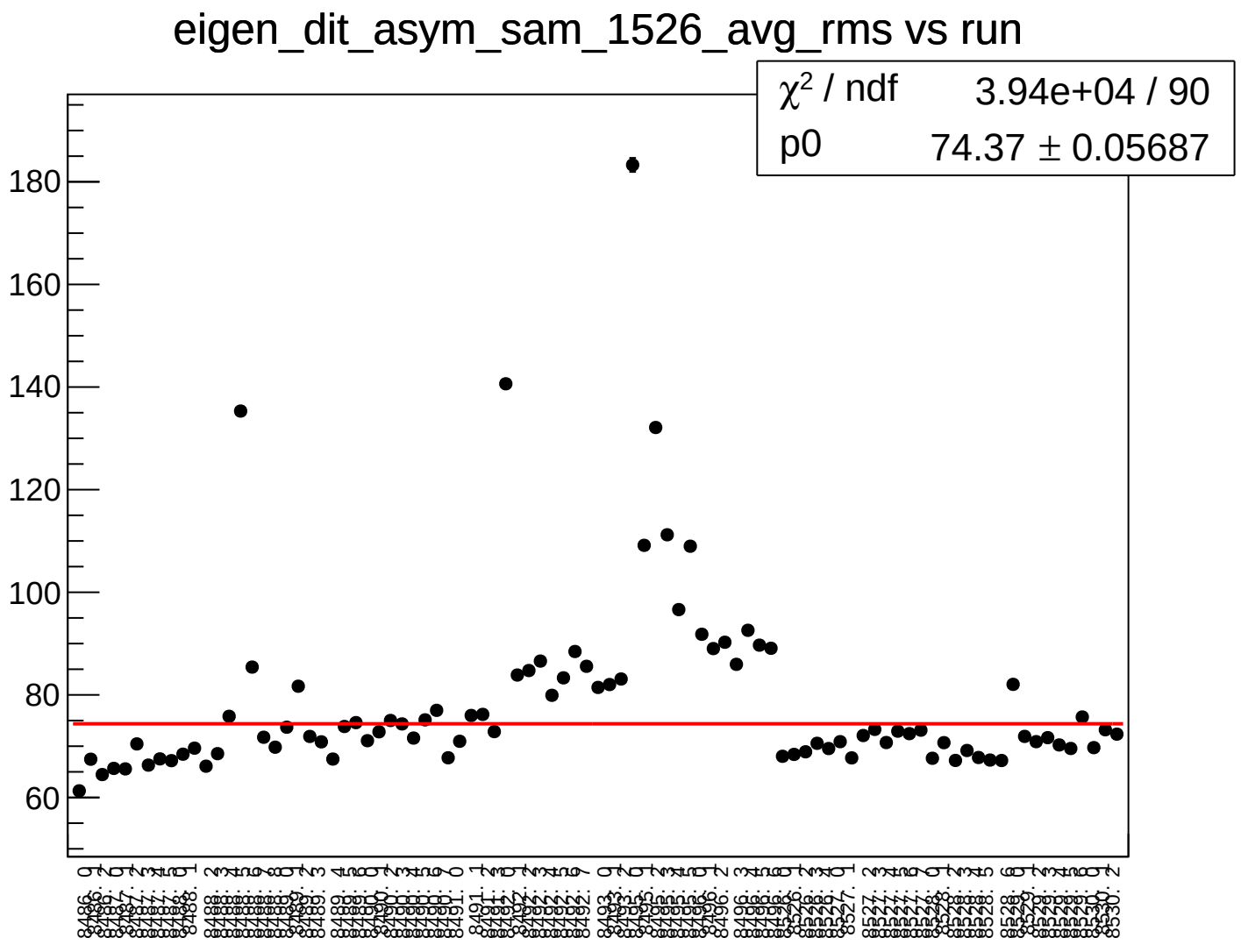

dit_asym_sam_1526_avg_rms vs run
χ^2 / ndf 3.94e+04 / 90
p0 74.37 ± 0.05687
180
160
140
120
100
80
60

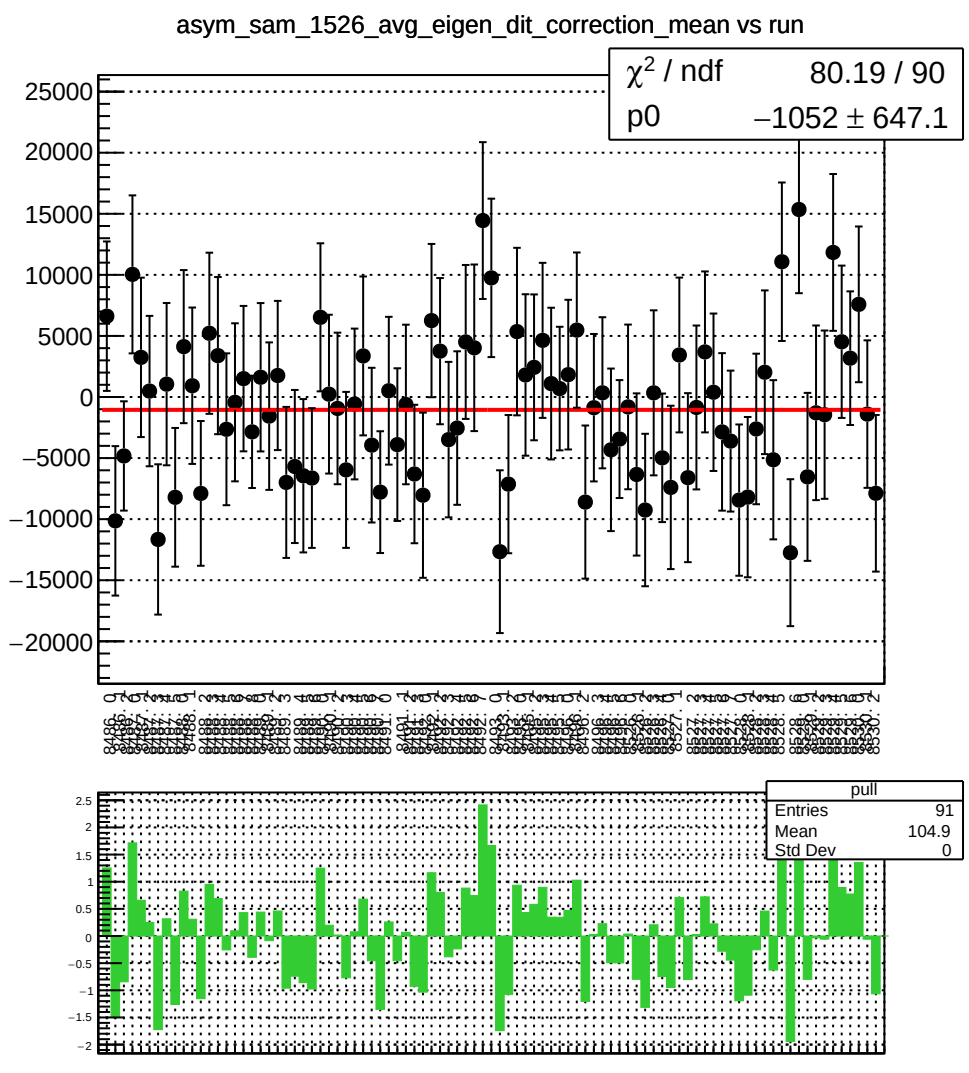

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 80.19 / 90
p0 −1052 ± 647.1
pull
Entries 91
Mean 104.9
Std Dev 0

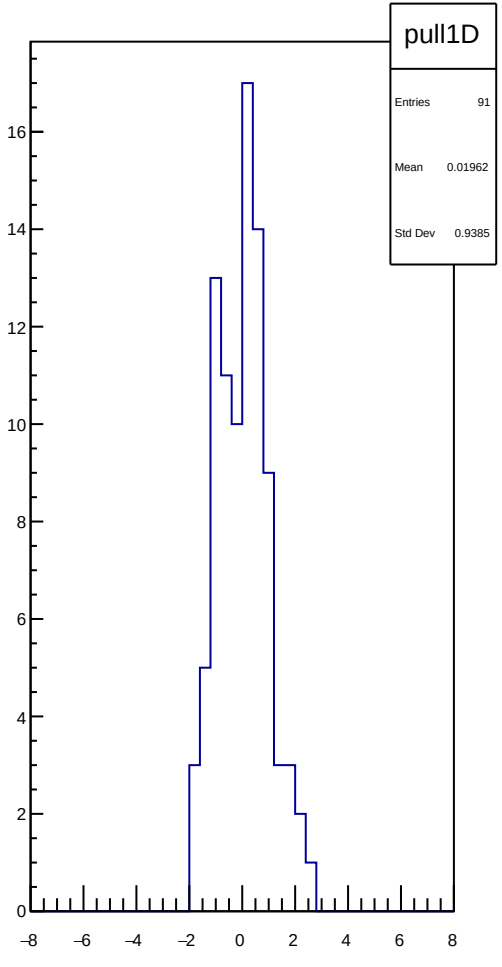

pull1D
Entries 91
Mean 0.01962
Std Dev 0.9385

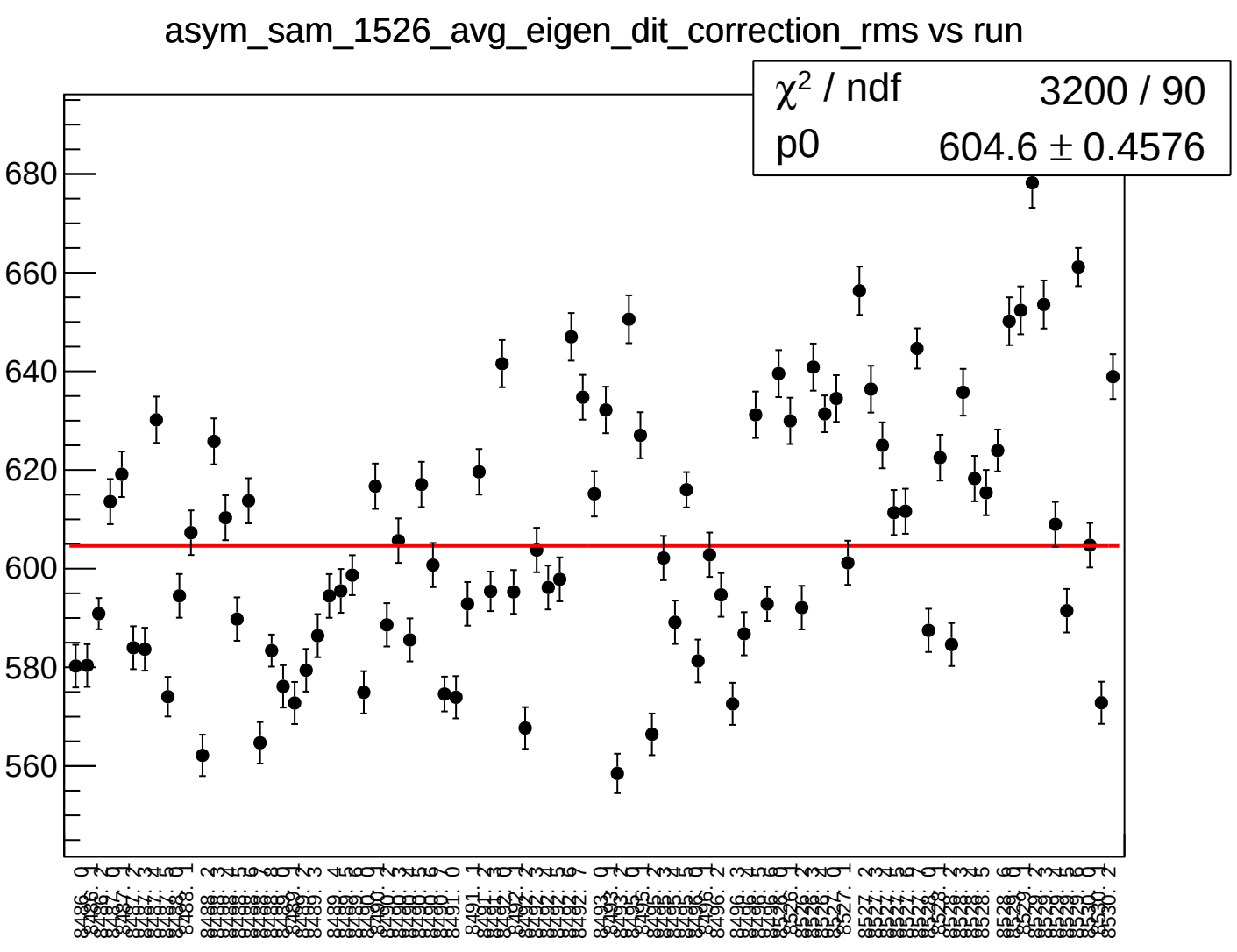

asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 3200 / 90
p0 604.6 ± 0.4576
680
660
640
620
600
580
560

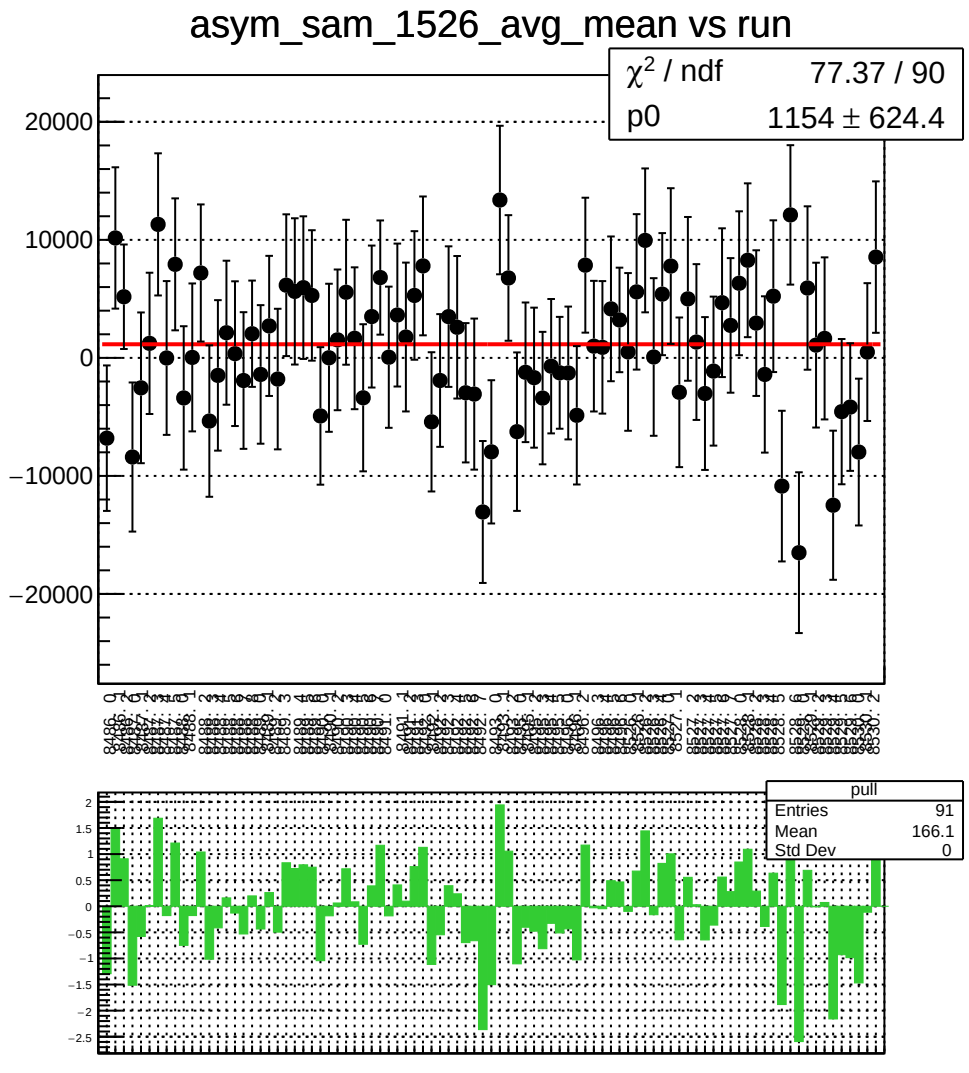

eigen_dit_asym_sam_1526_avg_mean vs run
χ² / ndf 108.1 / 90
p0 96.29 ± 80.43
pull
Entries 91
Mean −130.3
Std Dev 0
pull1D
Entries 91
Mean 0.03604
Std Dev 1.09

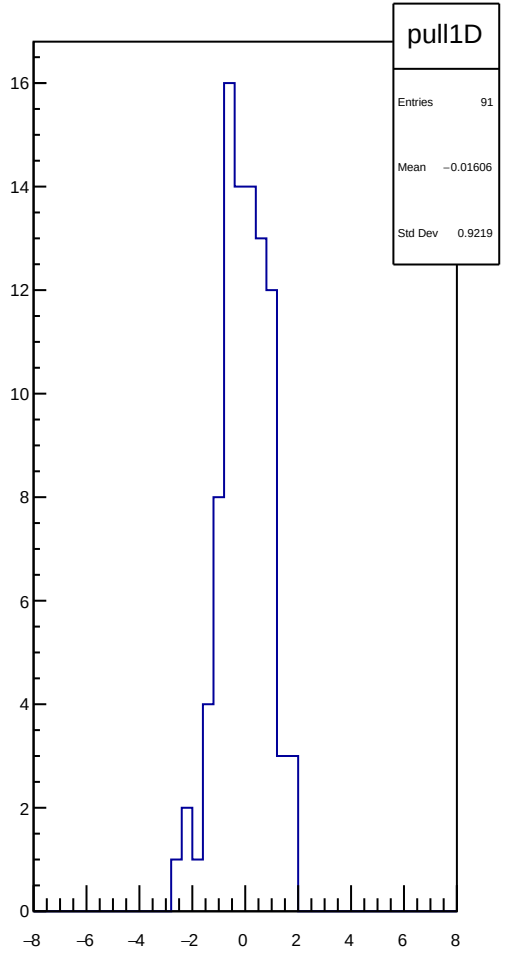

eigen_dit_asym_sam_1526_avg_rms vs run
χ² / ndf 3.94e+04 / 90
p0 74.37 ± 0.05687
180
160
140
120
100
80
60

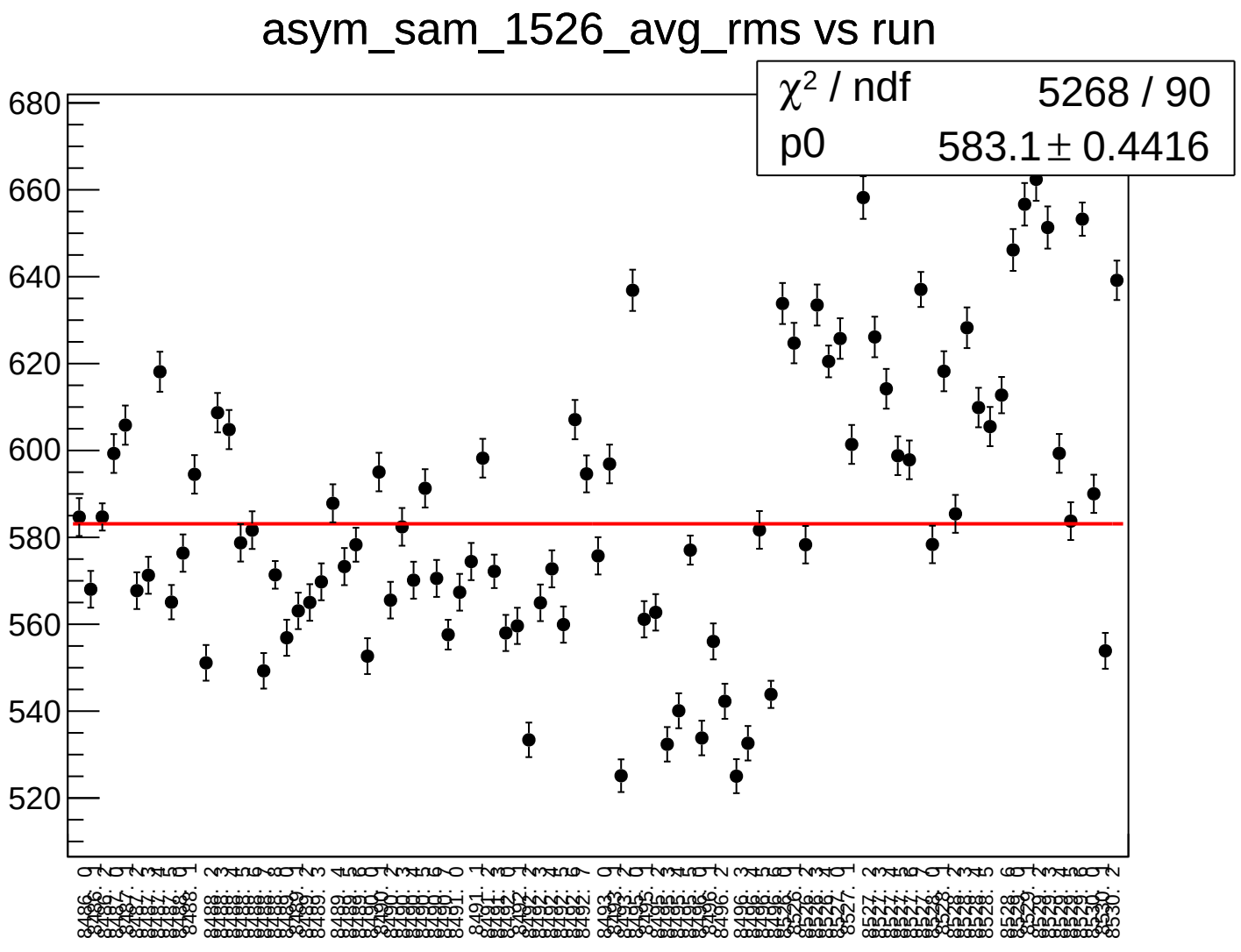

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 80.19 / 90
p0 −1052 ± 647.1
pull
Entries 91
Mean 104.9
Std Dev 0

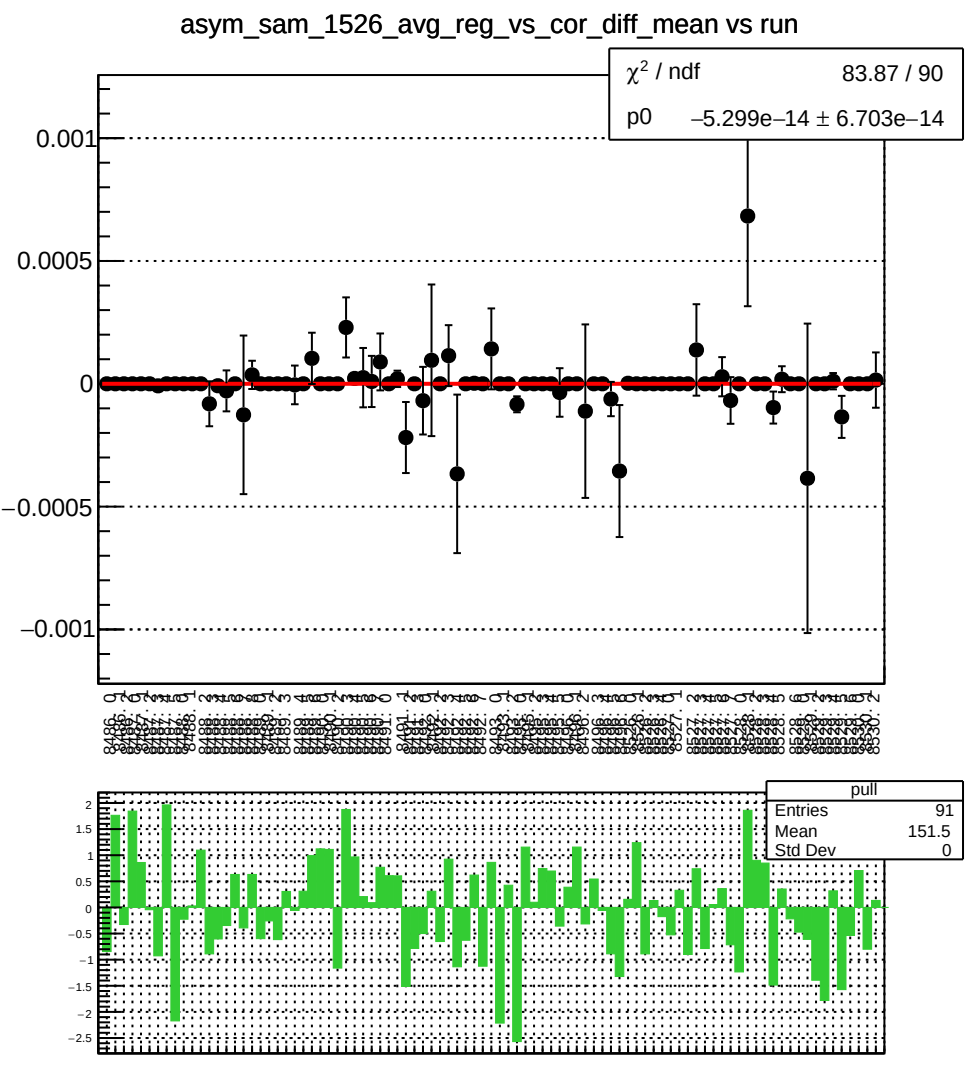

pull1D
Entries 91
Mean 0.01962
Std Dev 0.9385

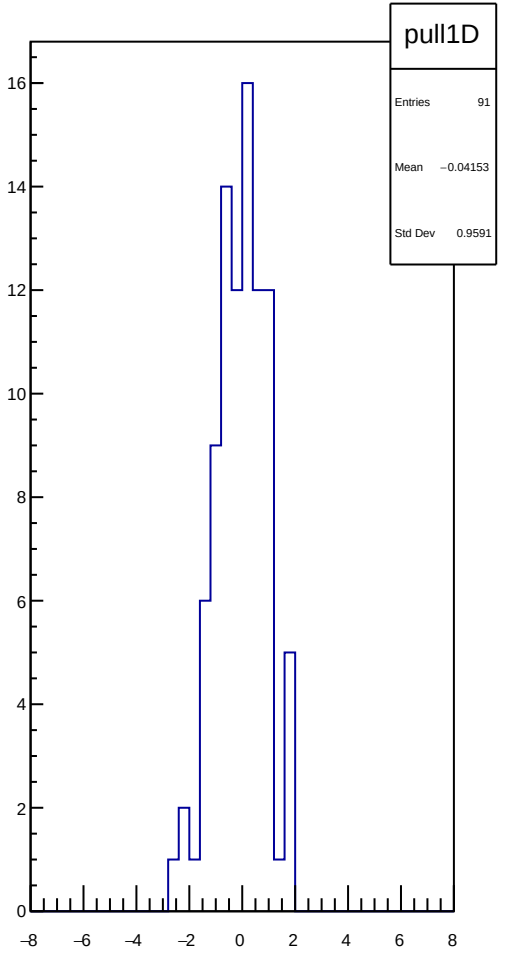

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 3200 / 90
p0 604.6 ± 0.4576
680
660
640
620
600
580
560

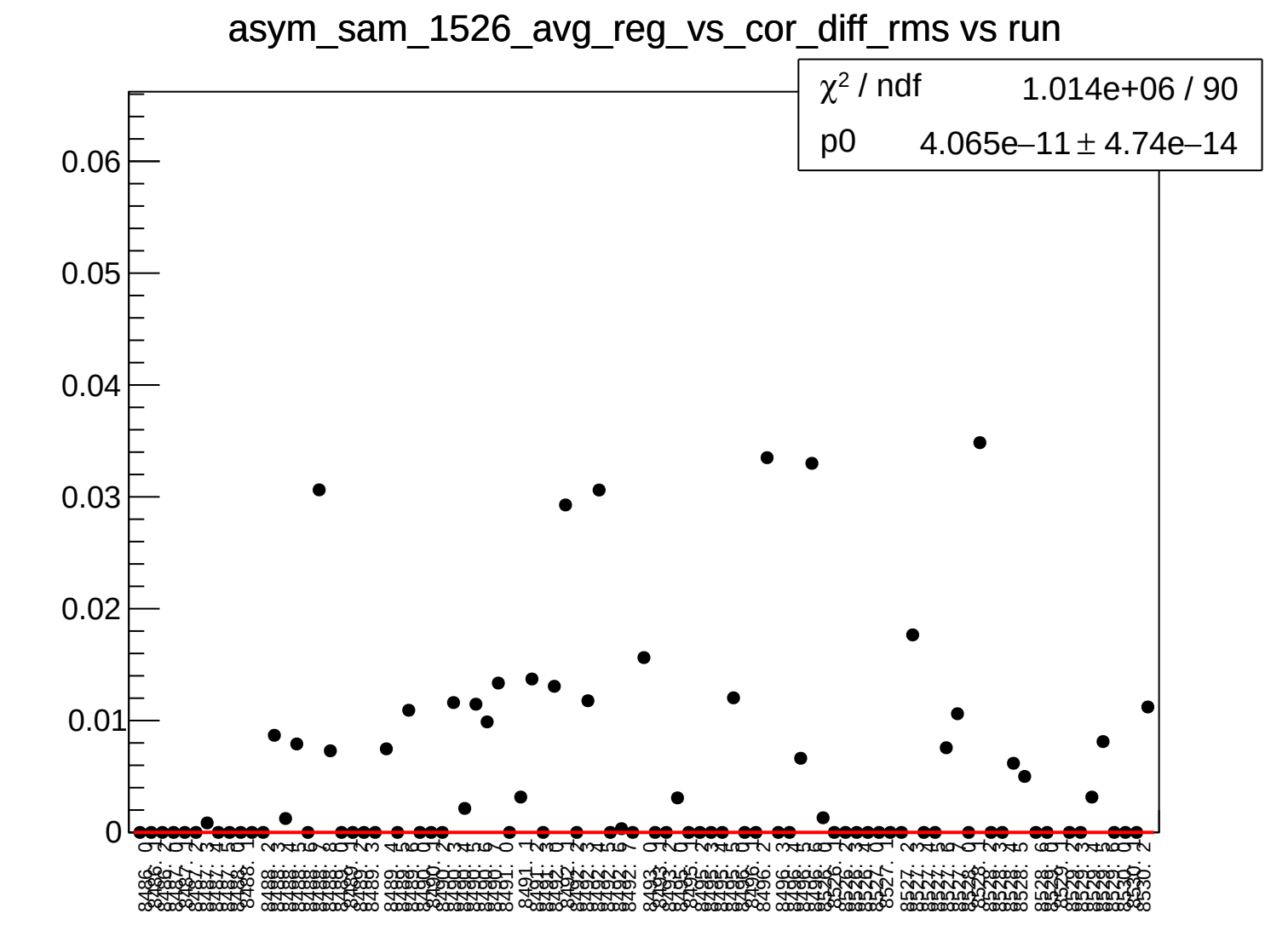

asym_sam_1526_avg_mean vs run
χ^2 / ndf 77.37 / 90
p0 1154 ± 624.4
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 166.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

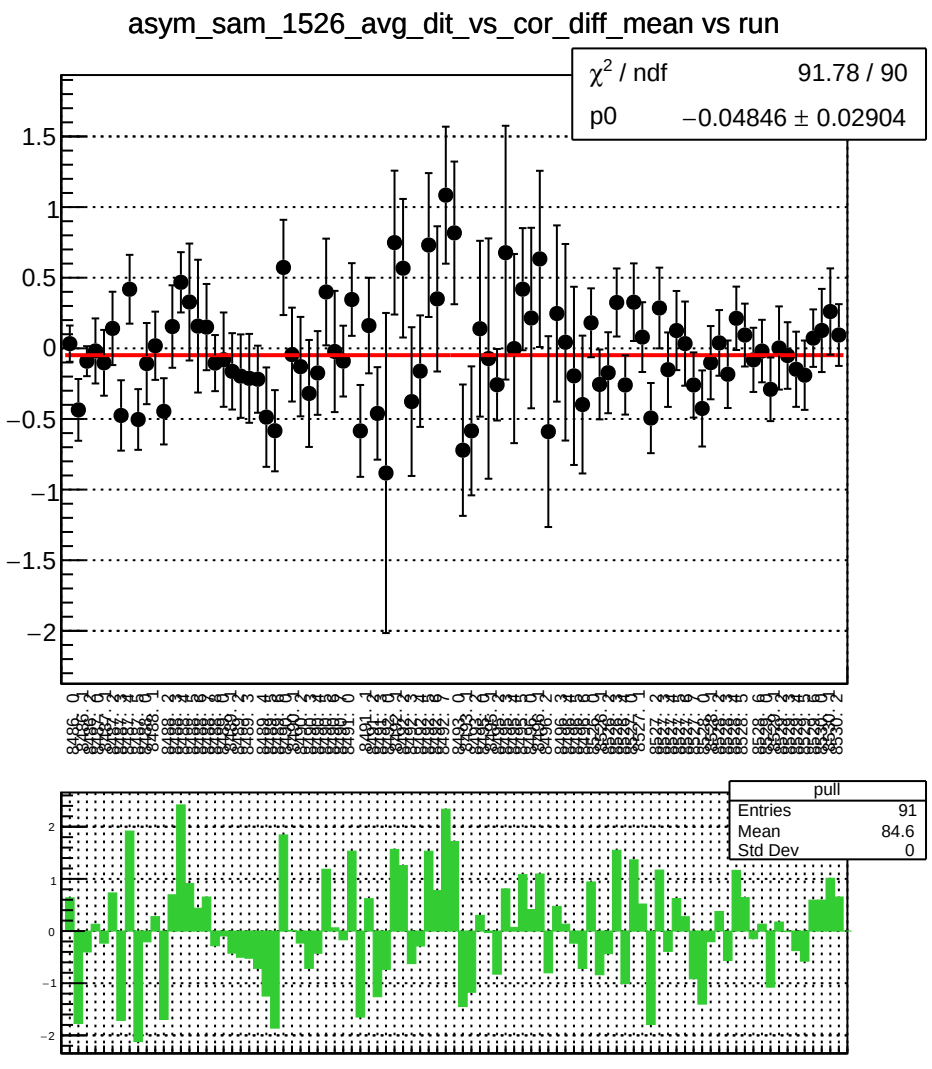

pull1D
Entries 91
Mean −0.01606
Std Dev 0.9219
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

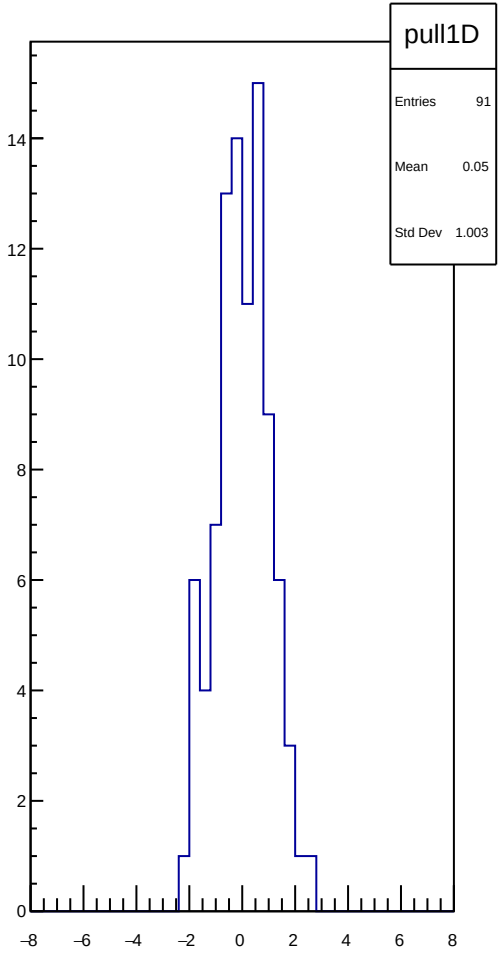

asym_sam_1526_avg_rms vs run
χ² / ndf 5268 / 90
p0 583.1 ± 0.4416
680
660
640
620
600
580
560
540
520

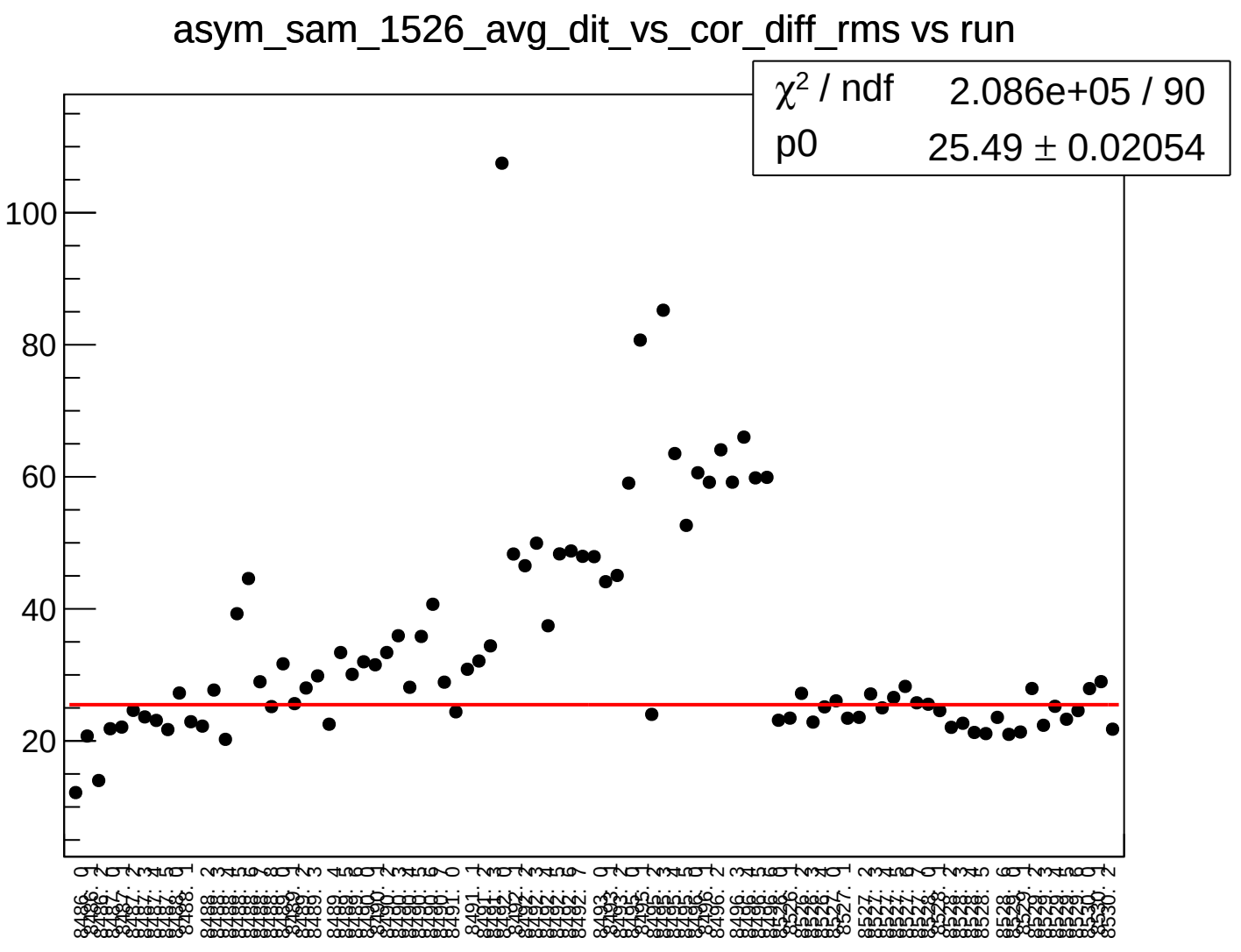

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 83.87 / 90
p0 −5.299e−14 ± 6.703e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 91
Mean 151.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

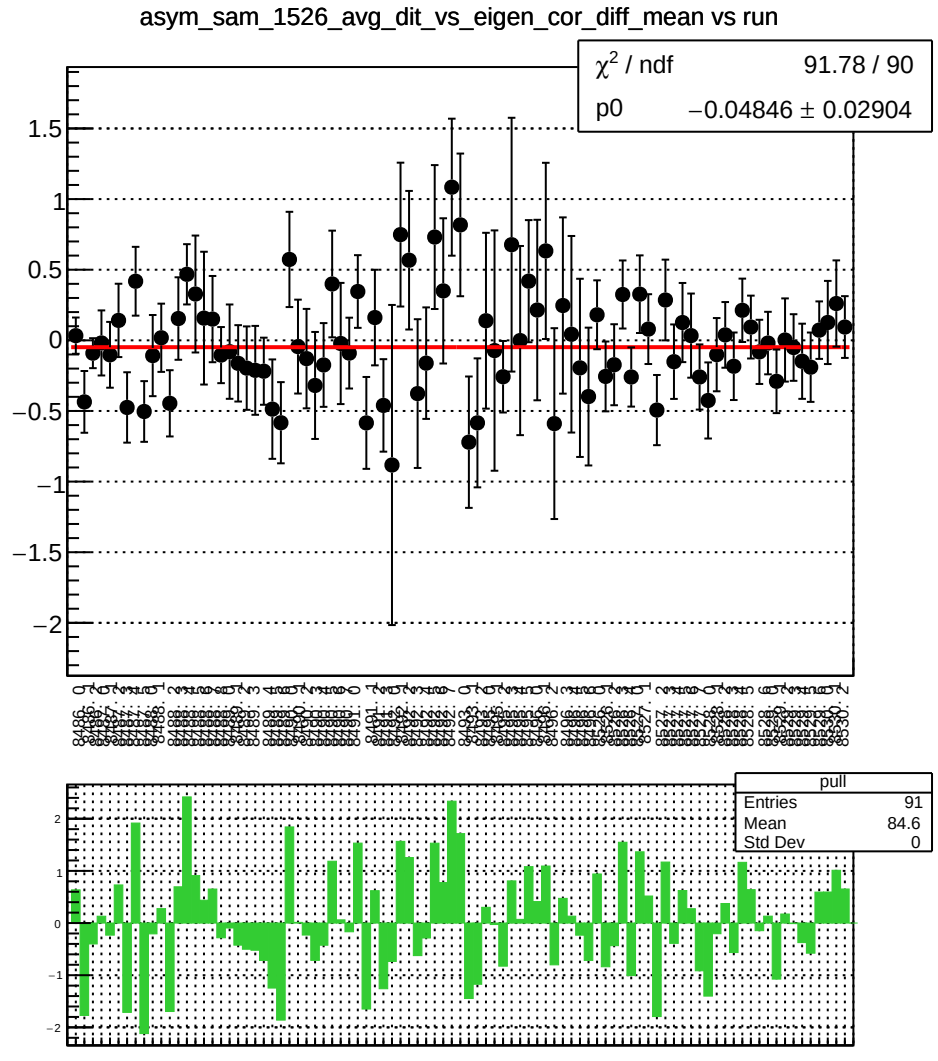

pull1D
Entries 91
Mean −0.04153
Std Dev 0.9591
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

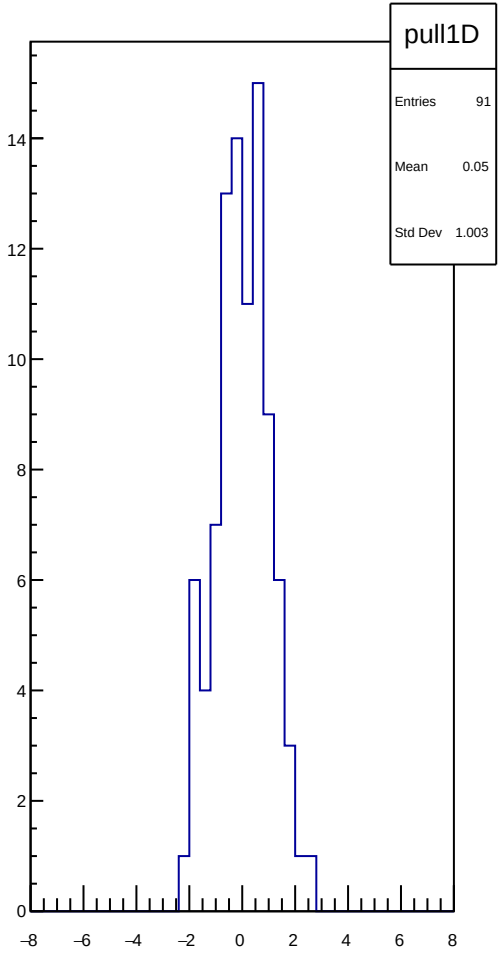

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.014e+06 / 90
p0 4.065e−11 ± 4.74e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

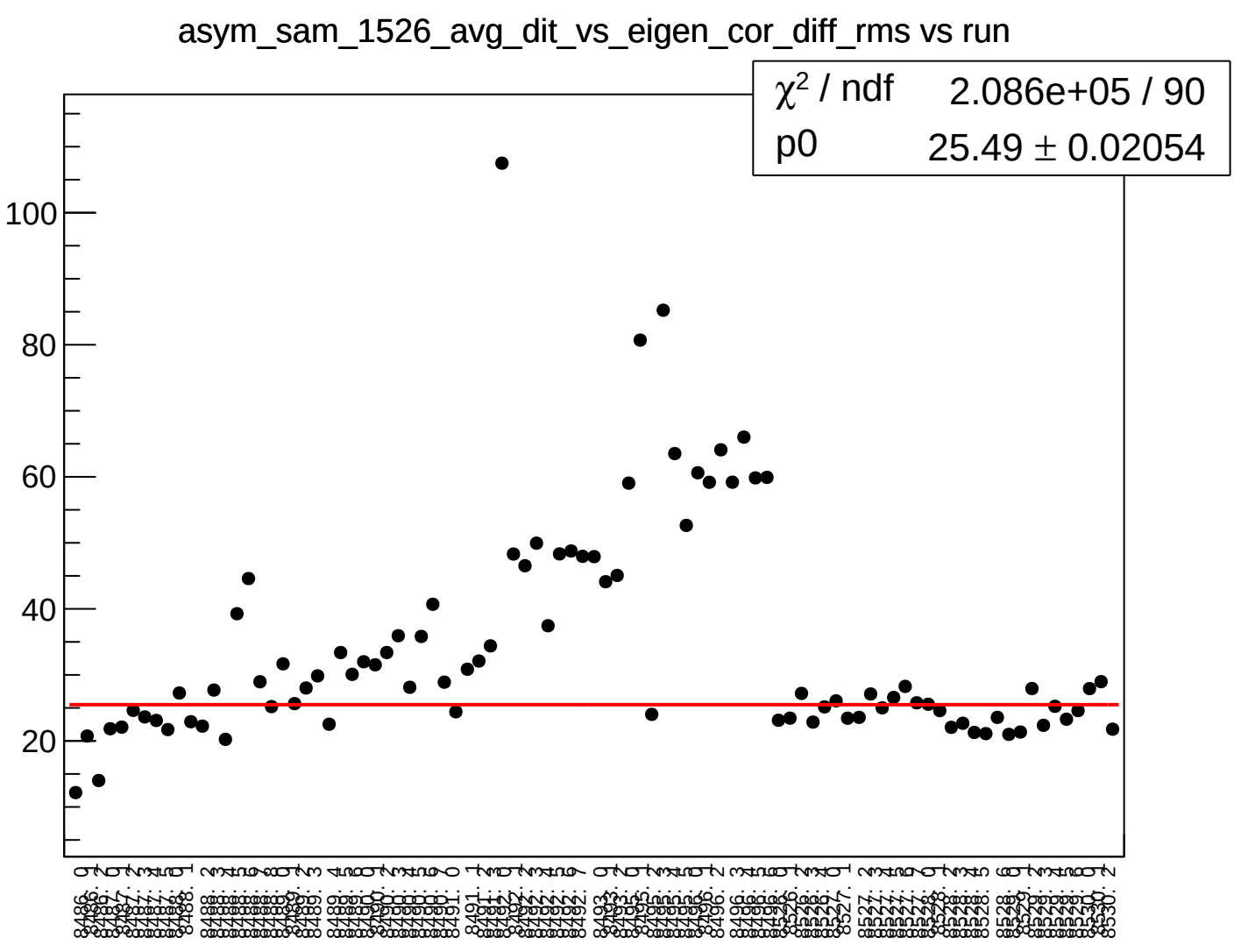

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 91.78 / 90
p0 −0.04846 ± 0.02904
pull
Entries 91
Mean 84.6
Std Dev 0

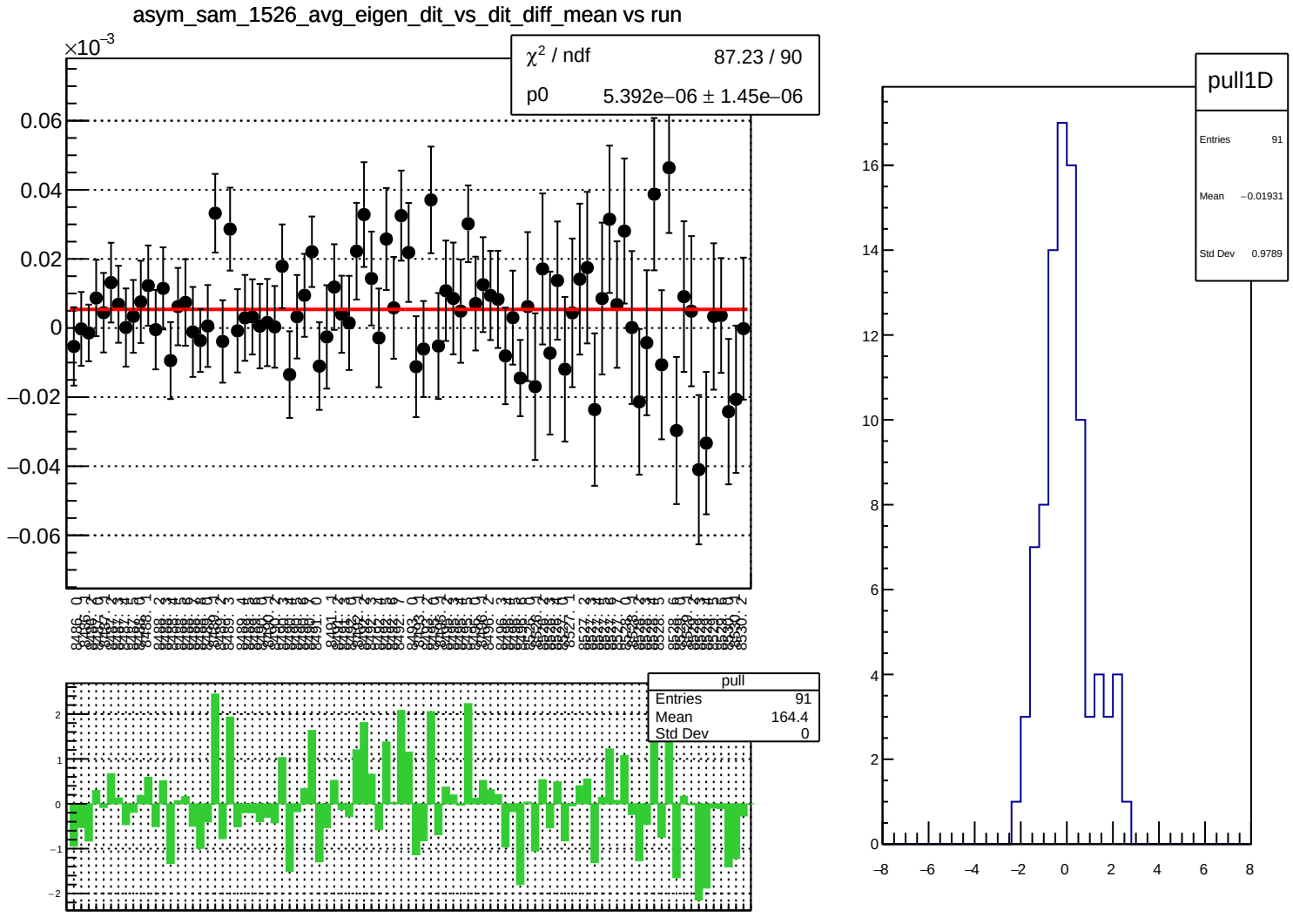

pull1D
Entries 91
Mean 0.05
Std Dev 1.003

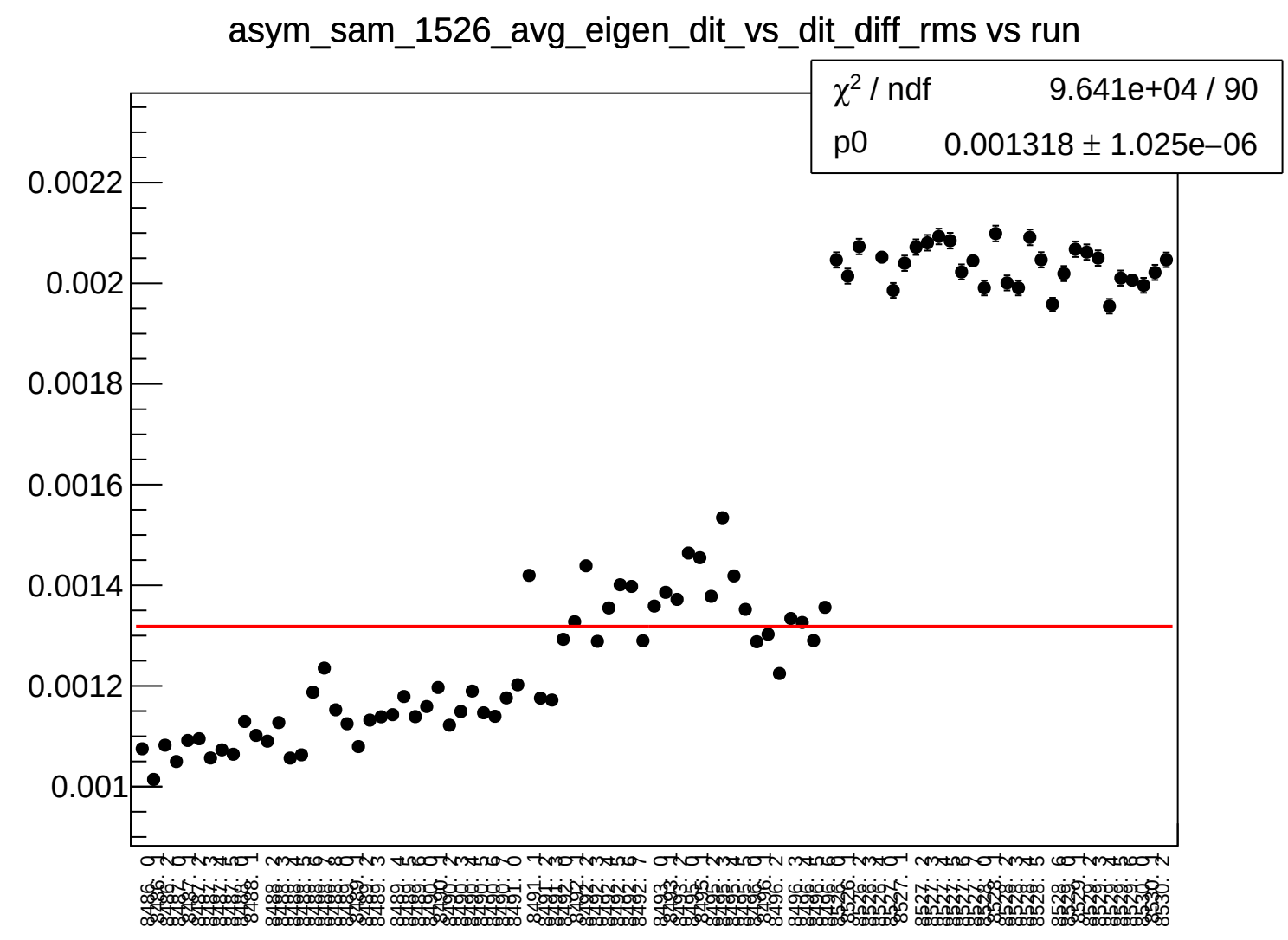

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.086e+05 / 90
p0 25.49 ± 0.02054
100
80
60
40
20

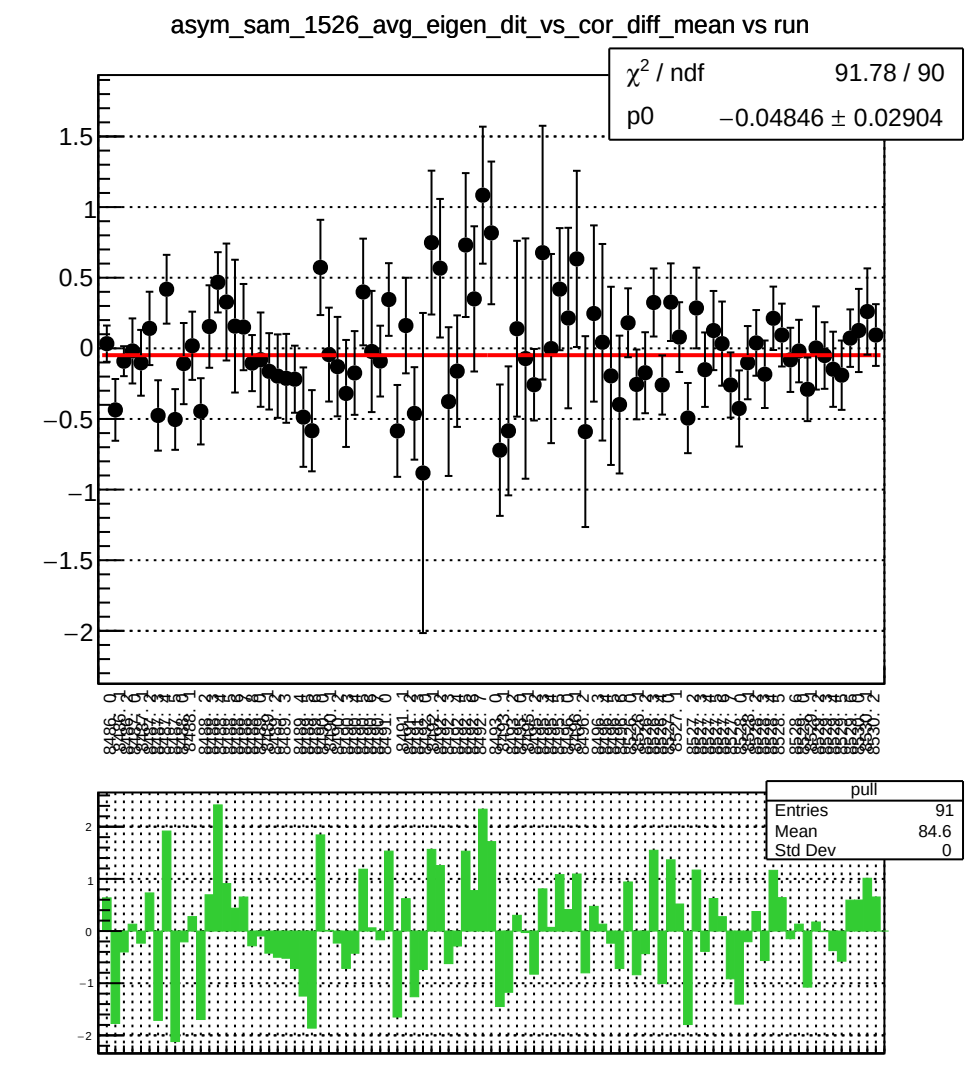

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.78 / 90
p0 −0.04846 ± 0.02904
pull
Entries 91
Mean 84.6
Std Dev 0

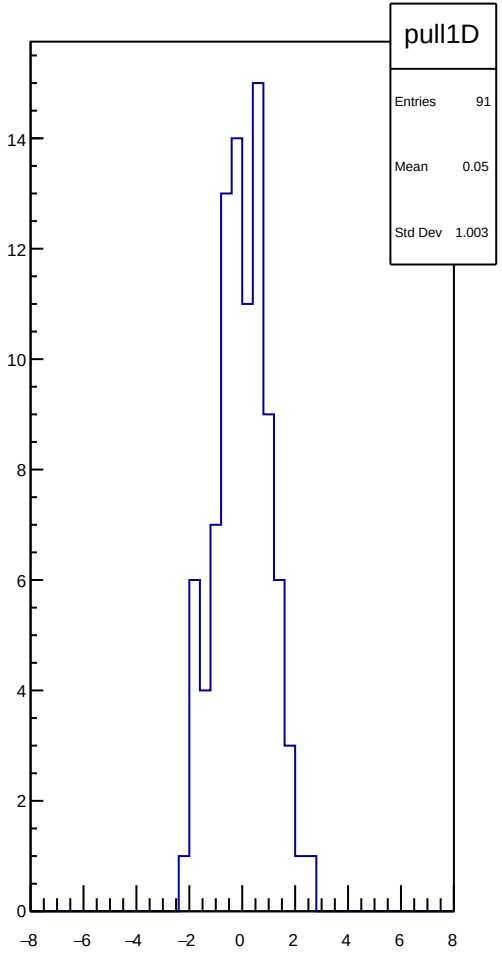

pull1D
Entries 91
Mean 0.05
Std Dev 1.003

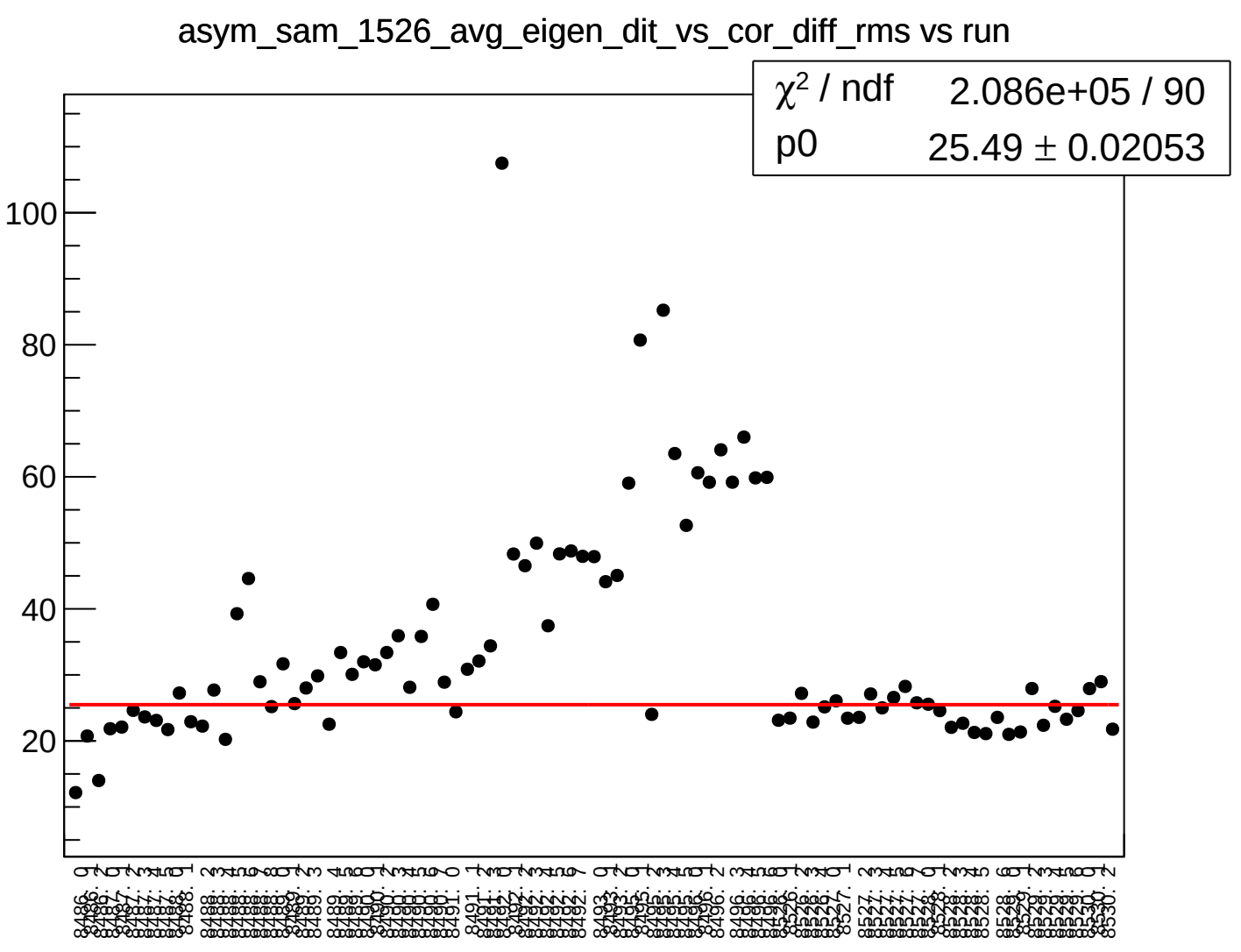

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.086e+05 / 90
p0 25.49 ± 0.02054
100
80
60
40
20

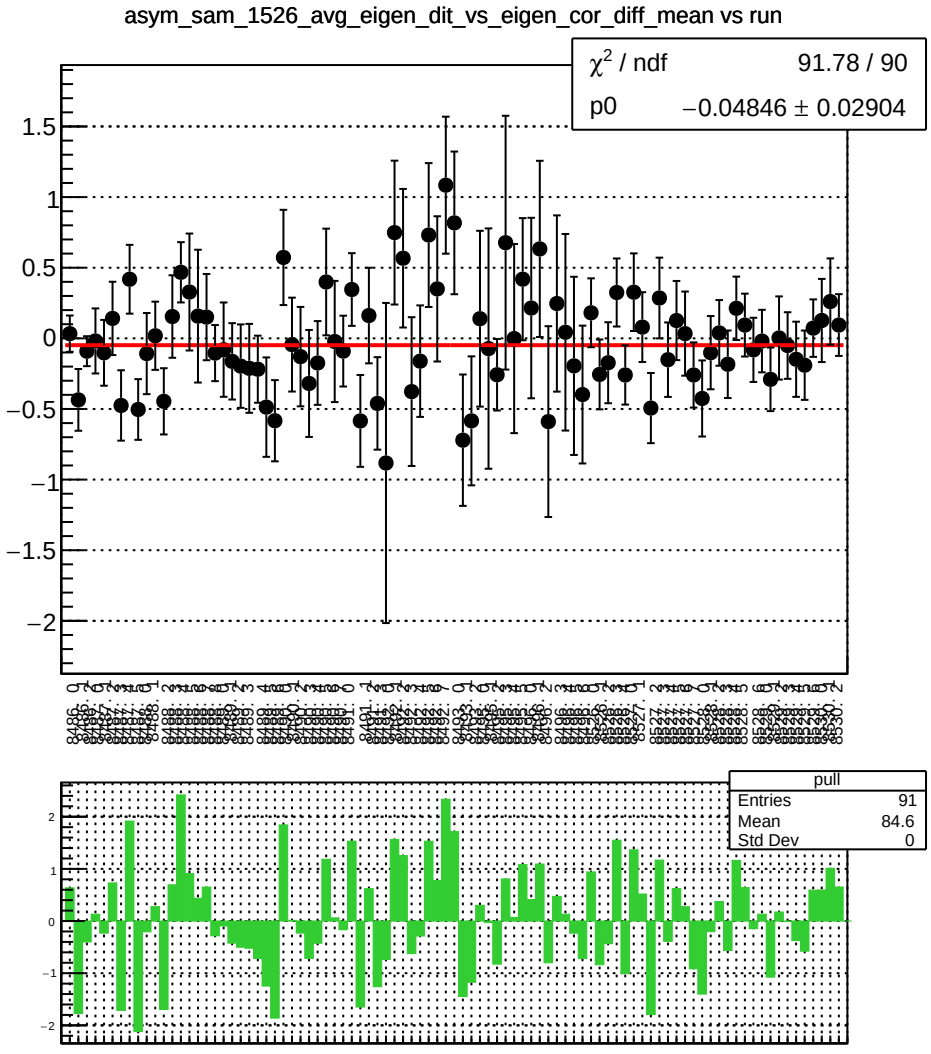

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.23 / 90
p0 5.392e−06 ± 1.45e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 91
Mean 164.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.01931
Std Dev 0.9789
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

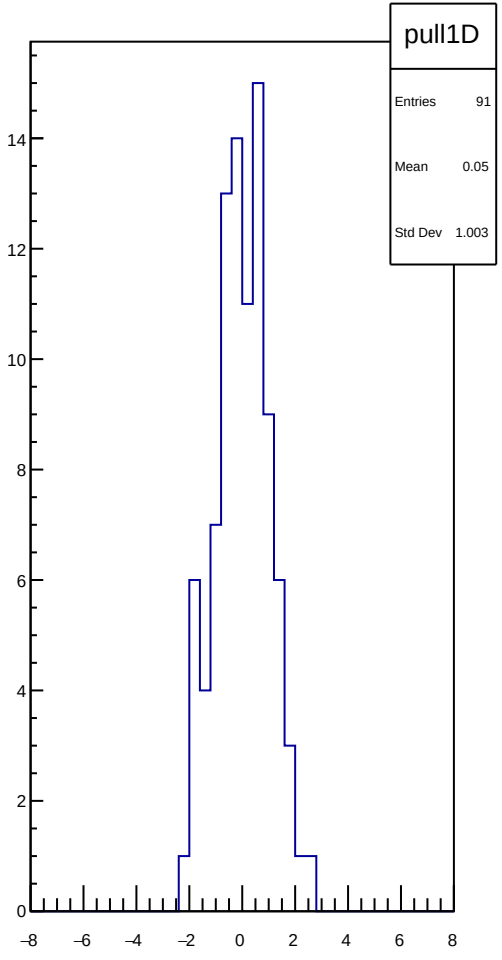

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.641e+04 / 90
p0 0.001318 ± 1.025e−06
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001

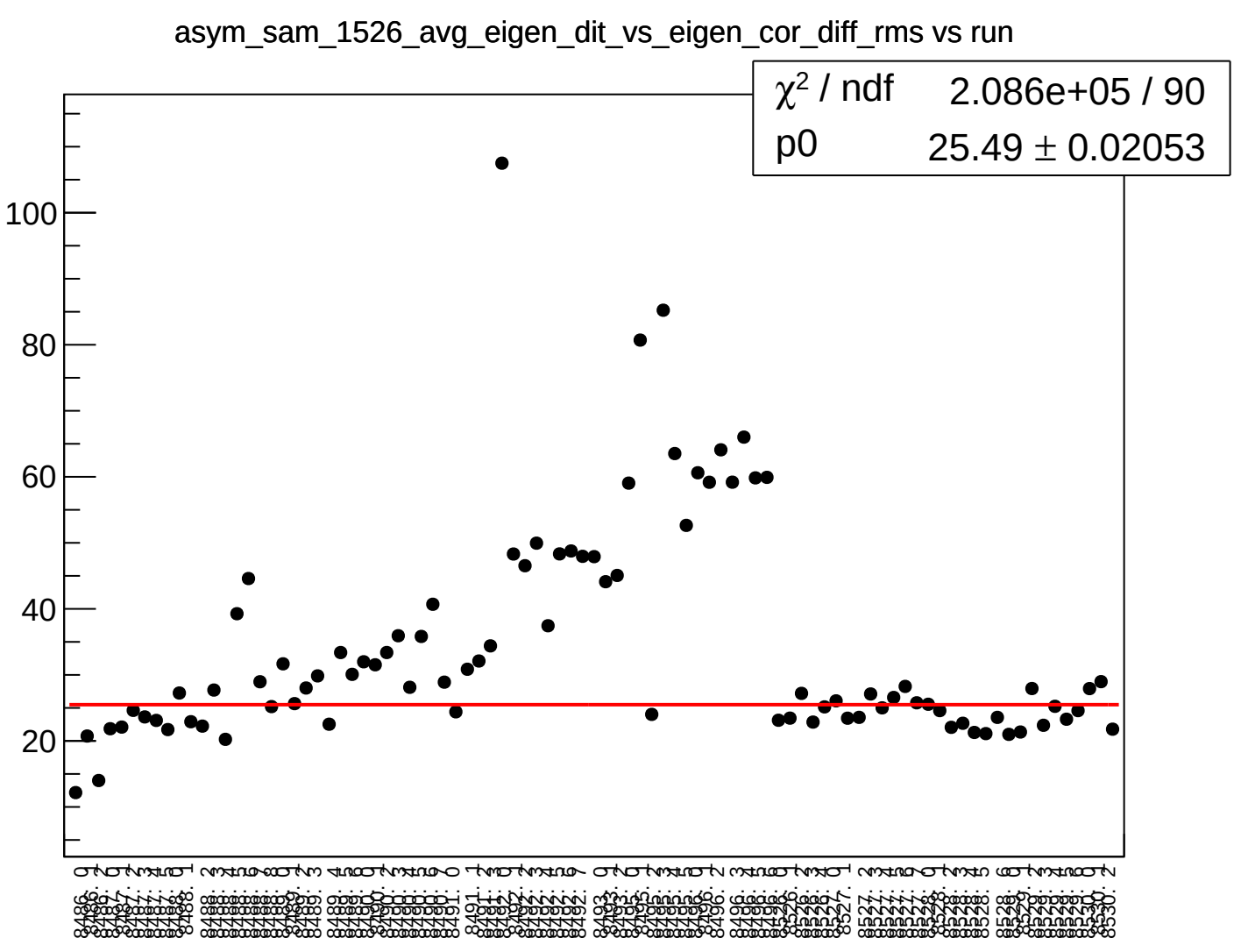

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.78 / 90
p0 −0.04846 ± 0.02904
pull
Entries 91
Mean 84.6
Std Dev 0

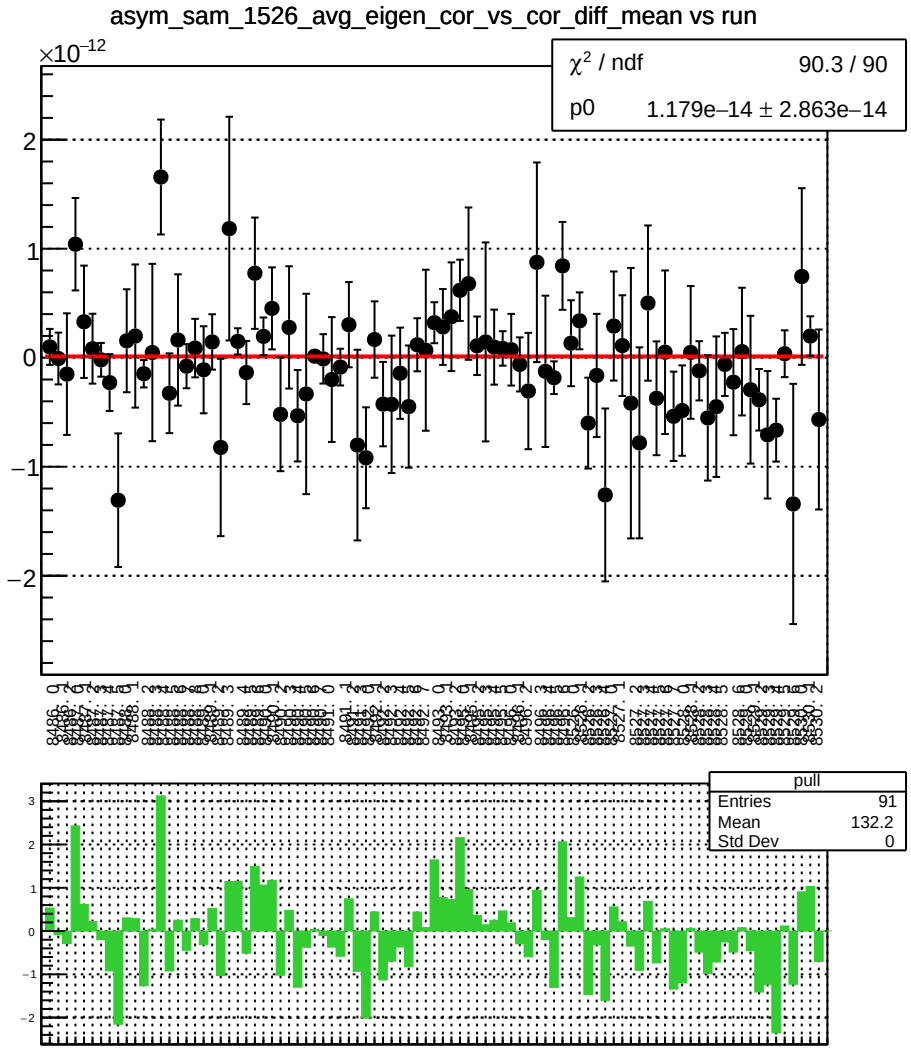

pull1D
Entries 91
Mean 0.05
Std Dev 1.003

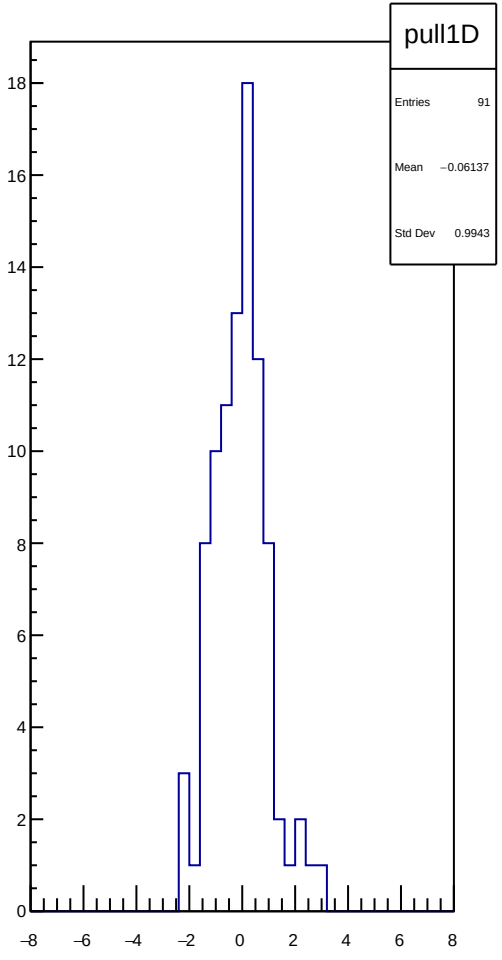

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.086e+05 / 90
p0 25.49 ± 0.02053
100
80
60
40
20

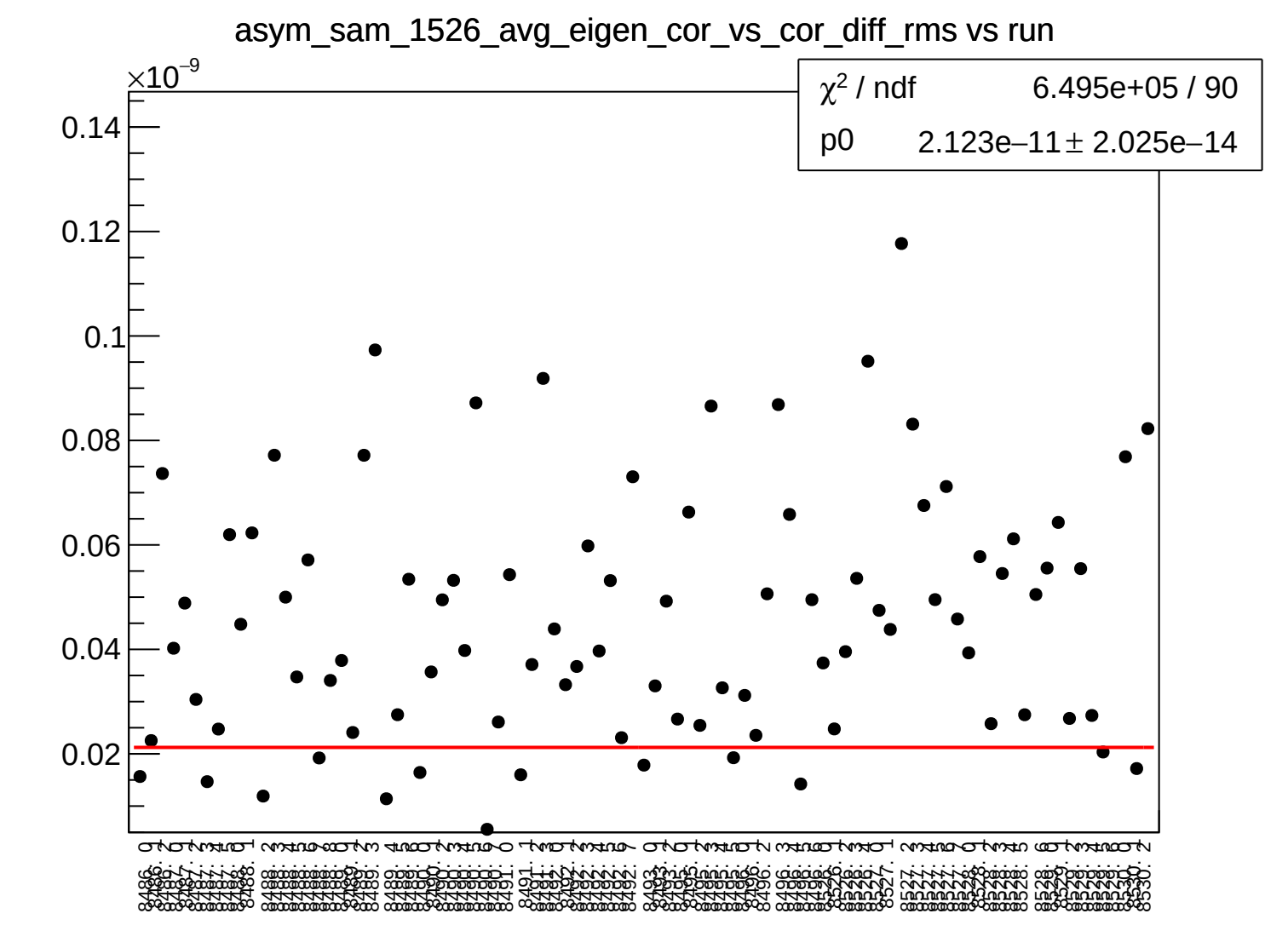

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.78 / 90
p0 −0.04846 ± 0.02904
pull
Entries 91
Mean 84.6
Std Dev 0

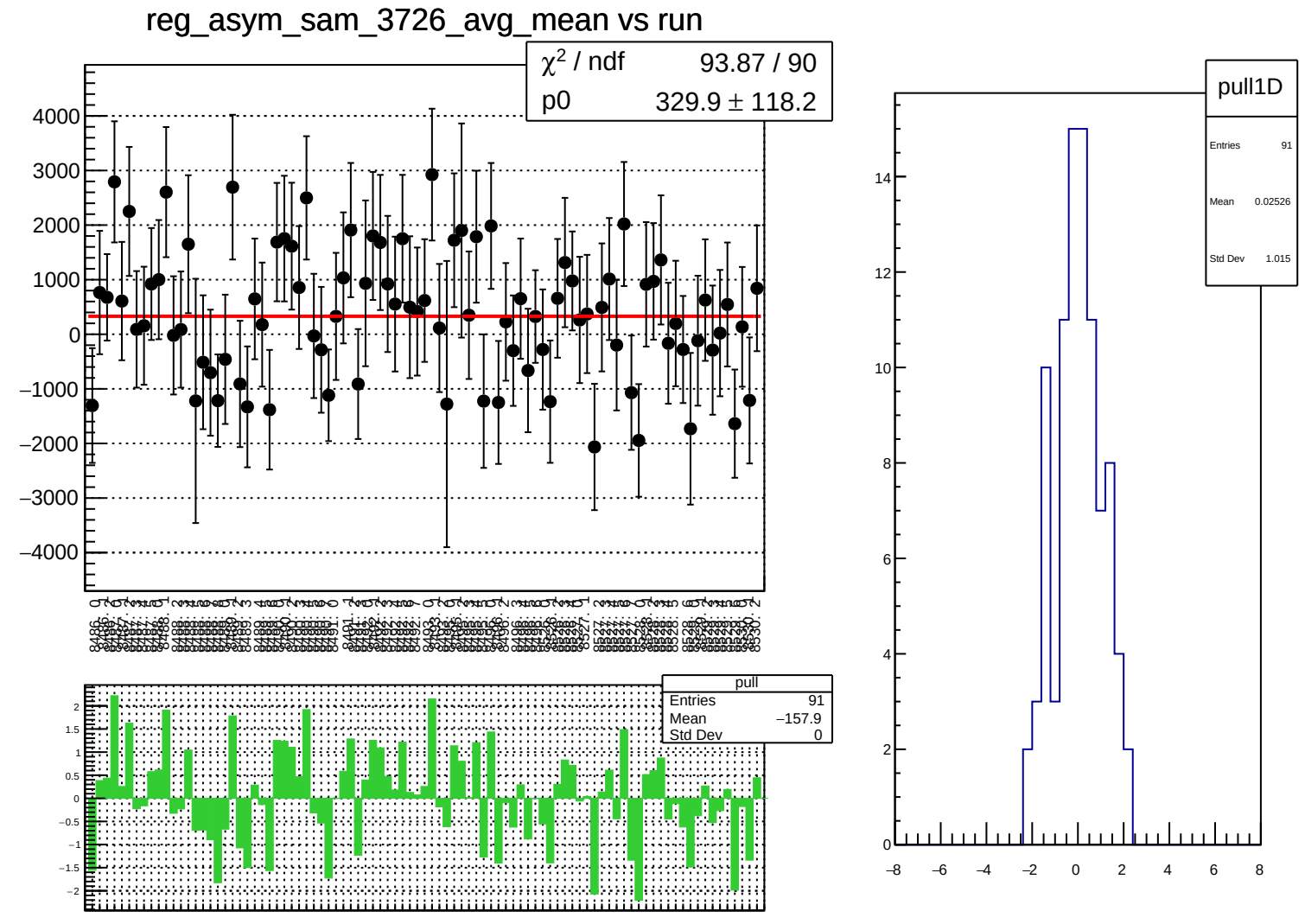

pull1D
Entries 91
Mean 0.05
Std Dev 1.003

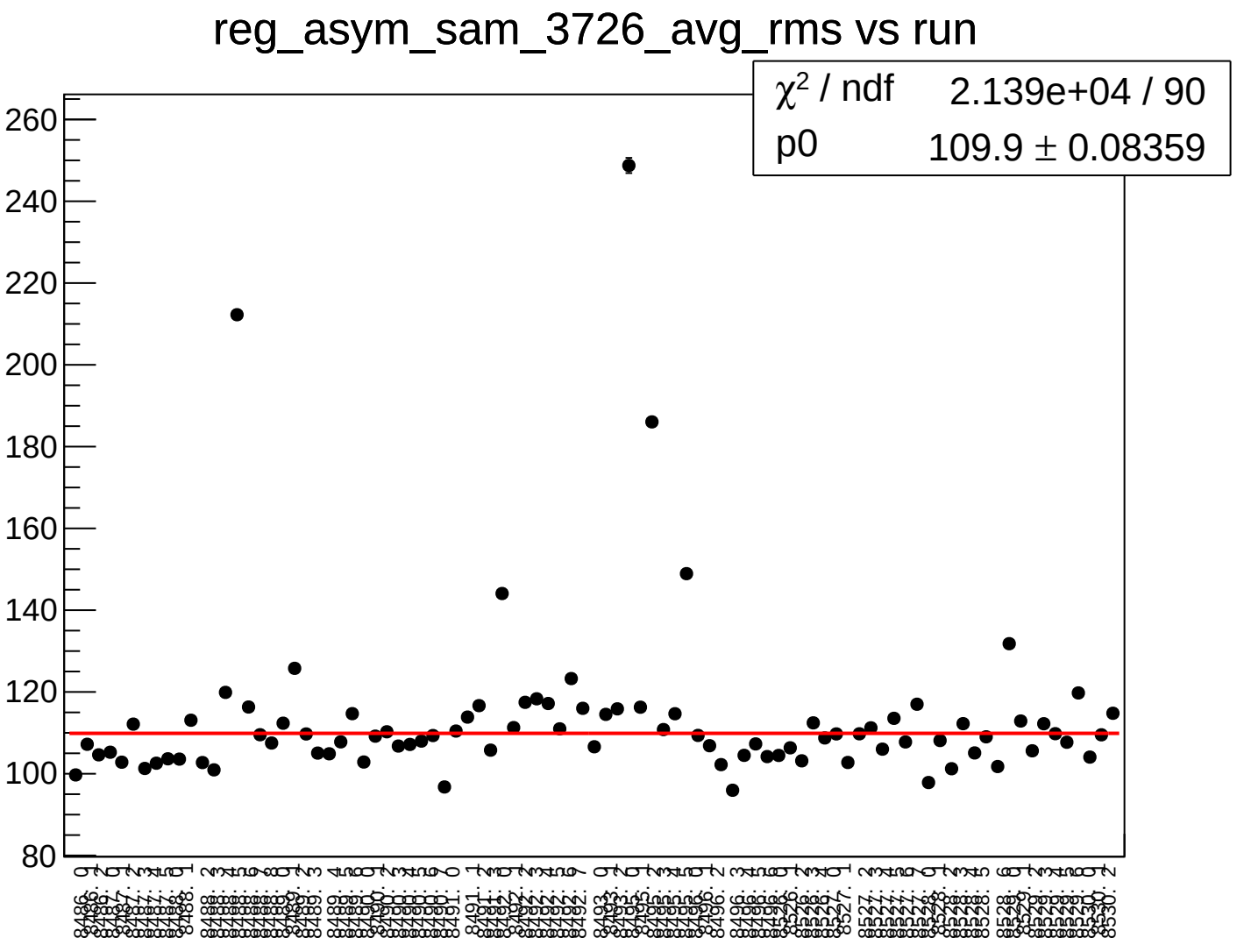

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.086e+05 / 90
p0 25.49 ± 0.02053
100
80
60
40
20

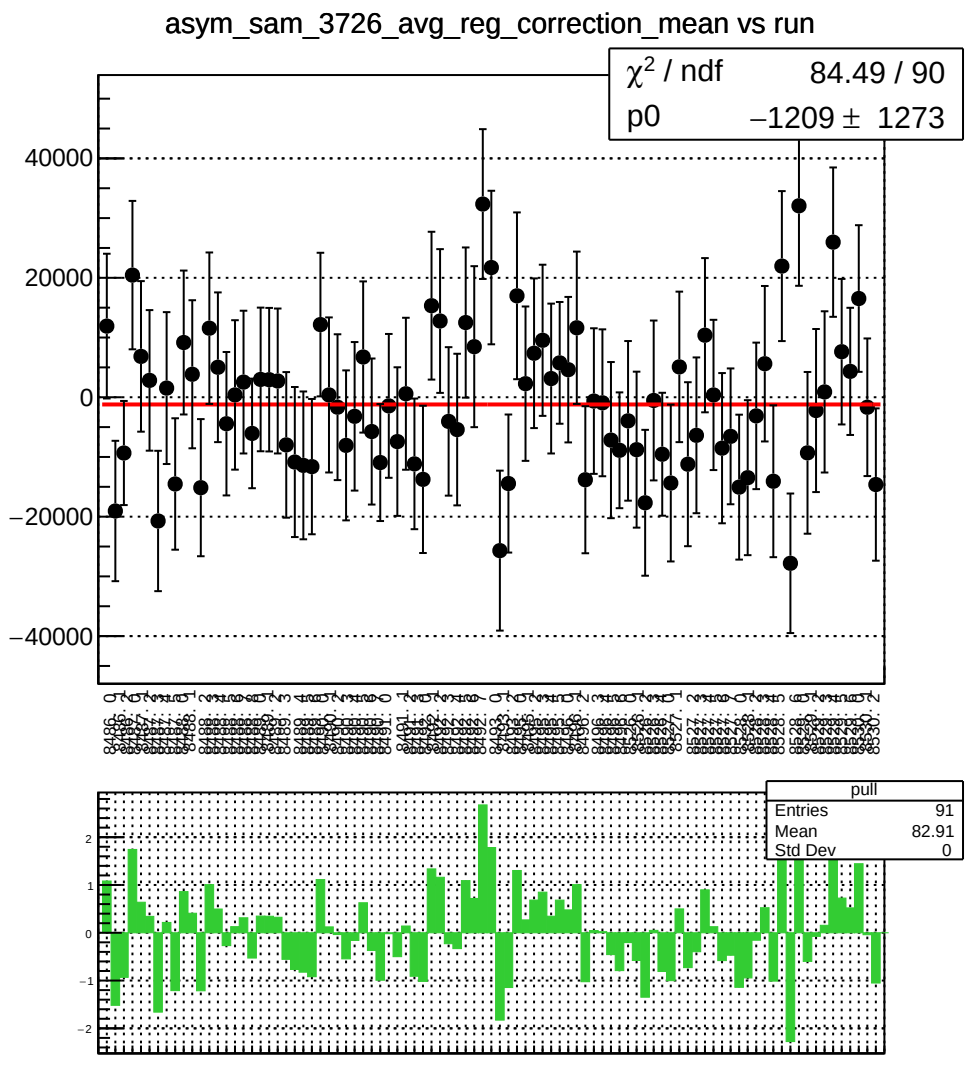

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.3 / 90
p0 1.179e−14 ± 2.863e−14
pull
Entries 91
Mean 132.2
Std Dev 0

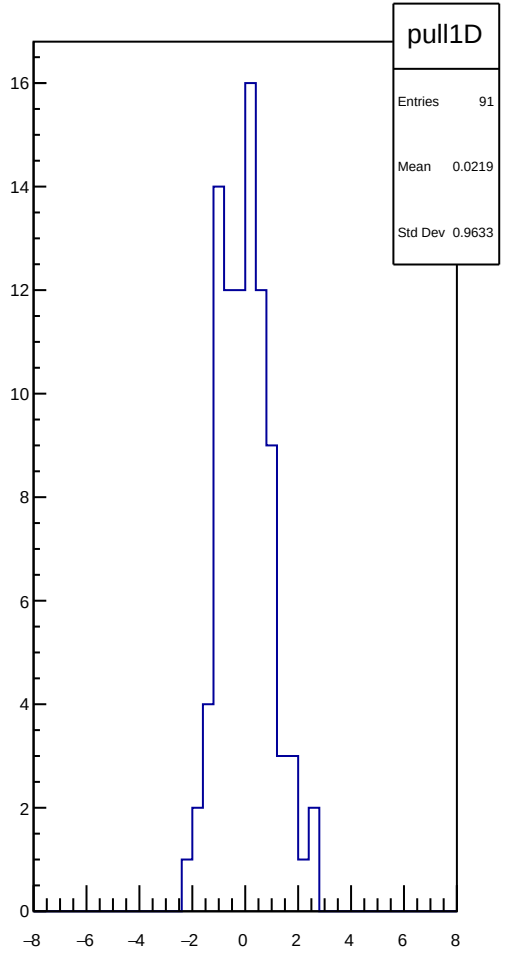

pull1D
Entries 91
Mean −0.06137
Std Dev 0.9943

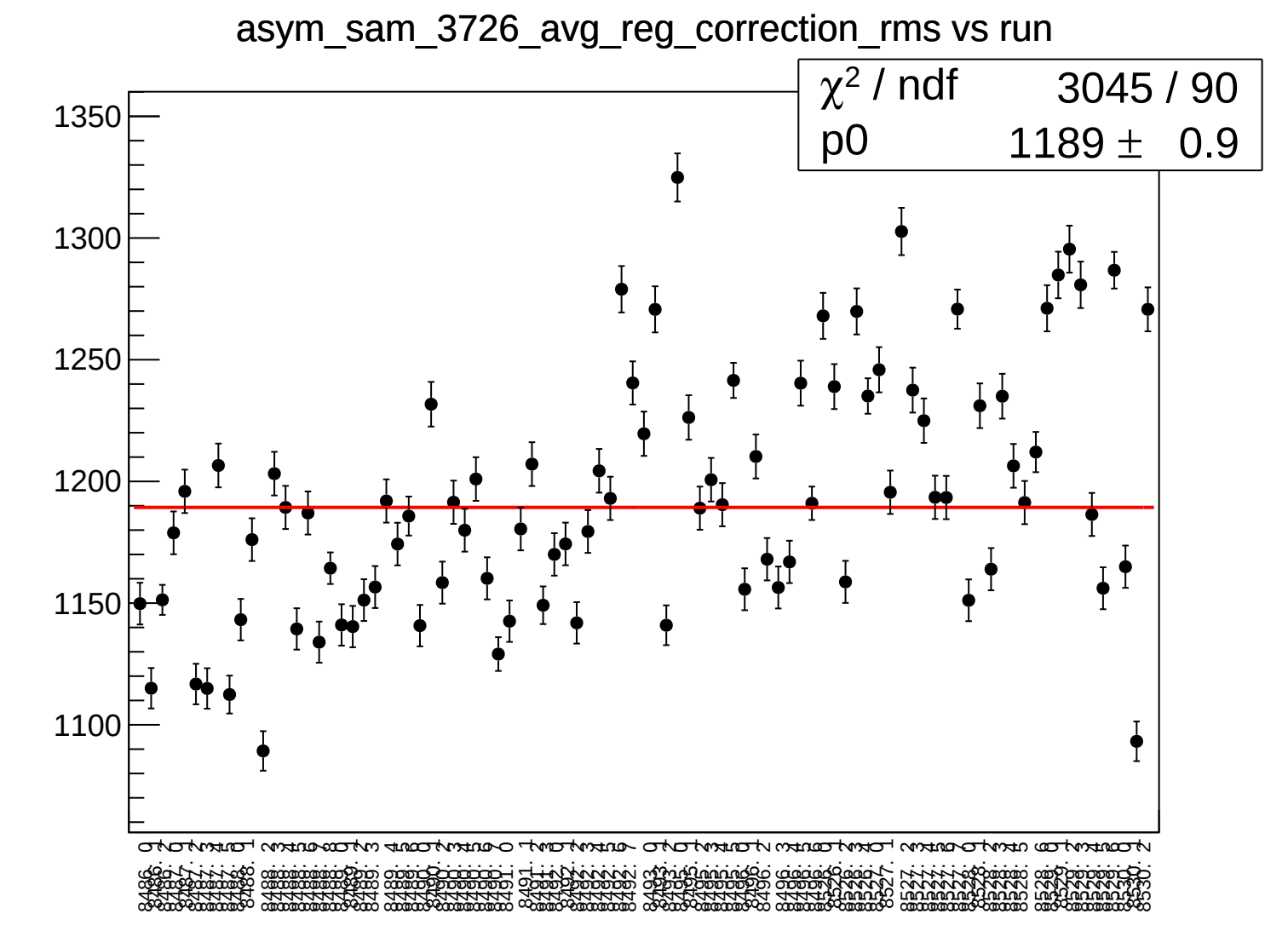

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.495e+05 / 90
p0 2.123e−11 ± 2.025e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

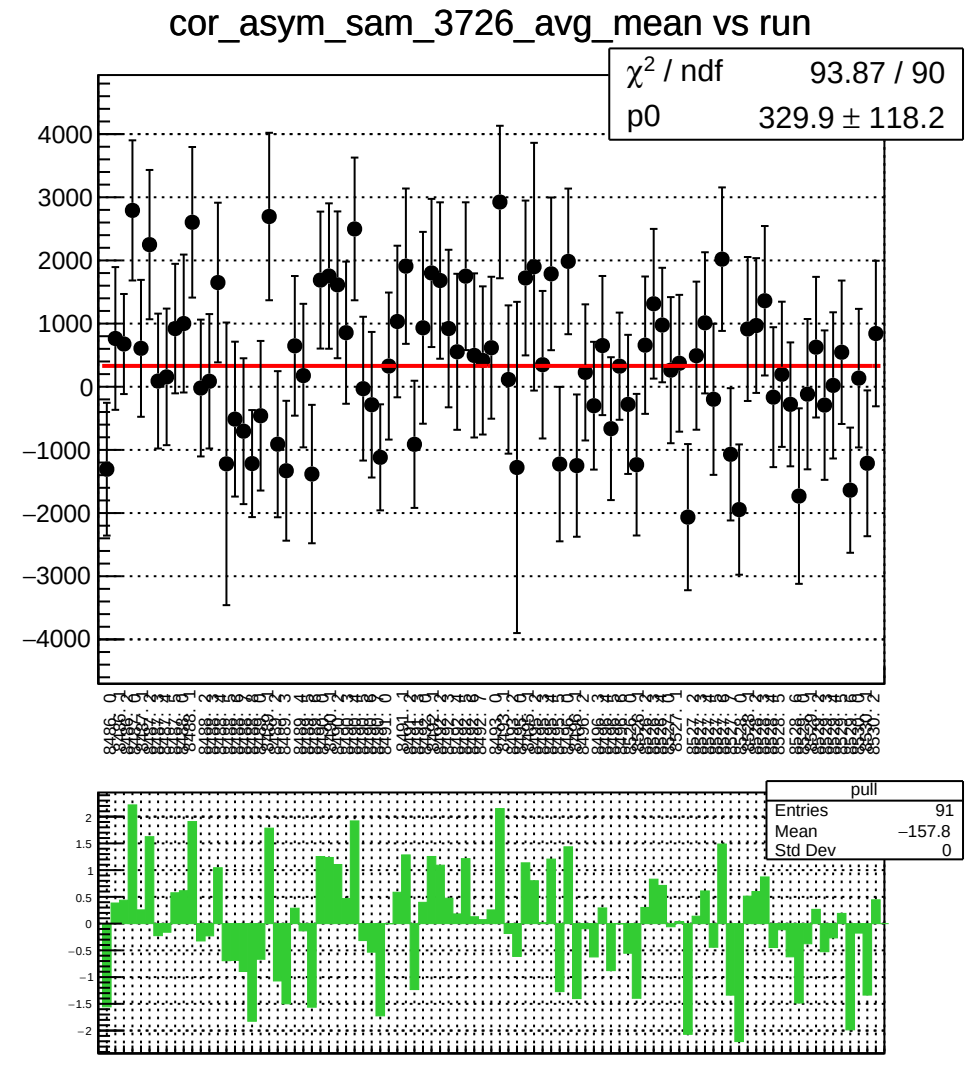

reg_asym_sam_3726_avg_mean vs run
χ^2 / ndf 93.87 / 90
p0 329.9 ± 118.2
pull
Entries 91
Mean −157.9
Std Dev 0
pull1D
Entries 91
Mean 0.02526
Std Dev 1.015

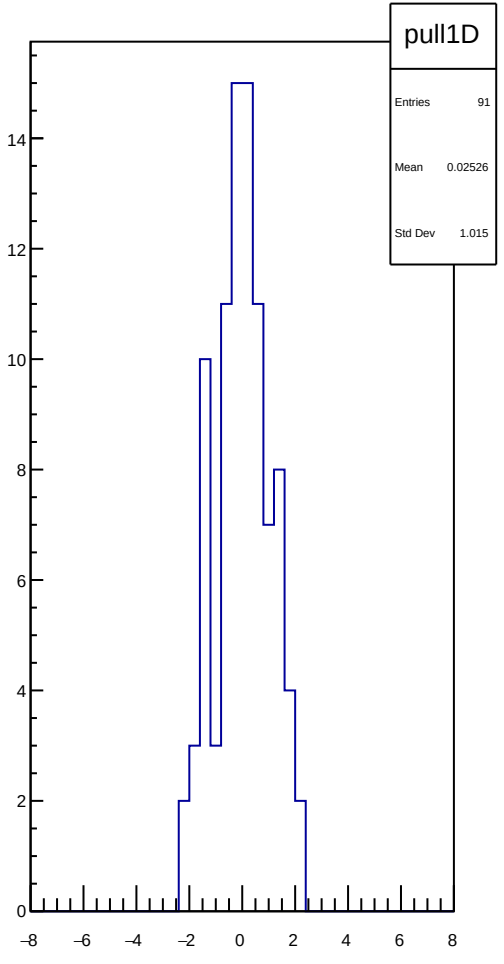

reg_asym_sam_3726_avg_rms vs run
χ² / ndf 2.139e+04 / 90
p0 109.9 ± 0.08359
260
240
220
200
180
160
140
120
100
80

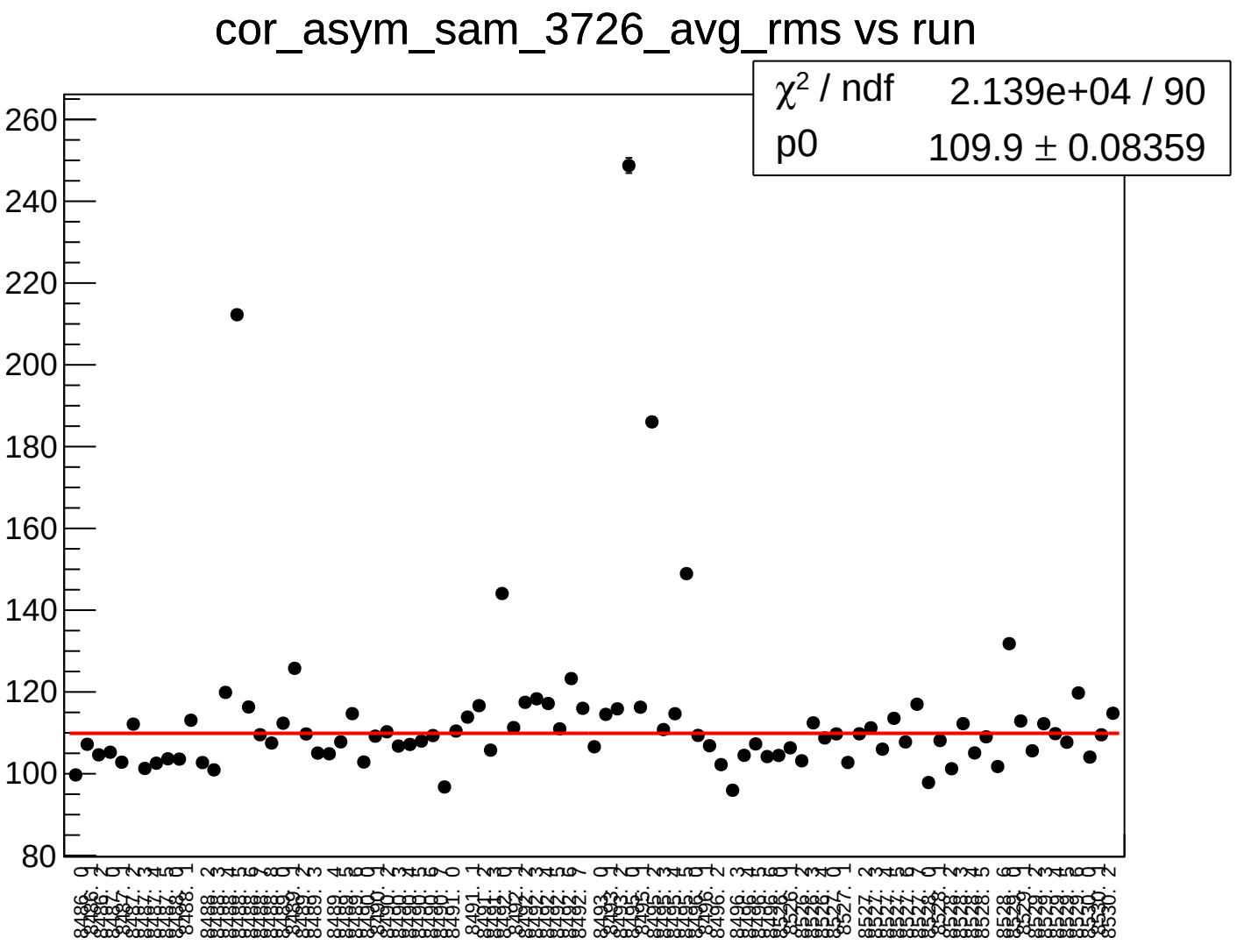

asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 84.49 / 90
p0 −1209 ± 1273
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 82.91
Std Dev 0
2
1
0
−1
−2

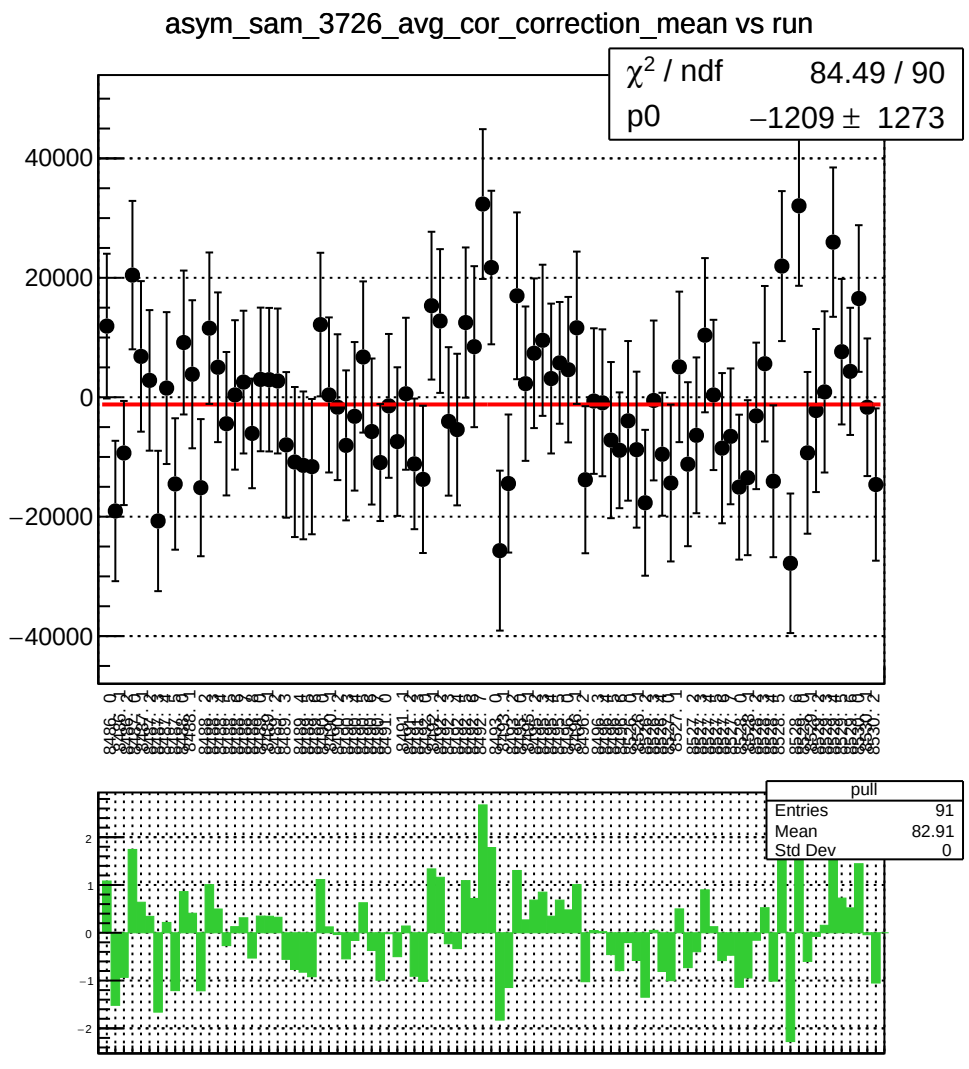

pull1D
Entries 91
Mean 0.0219
Std Dev 0.9633
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

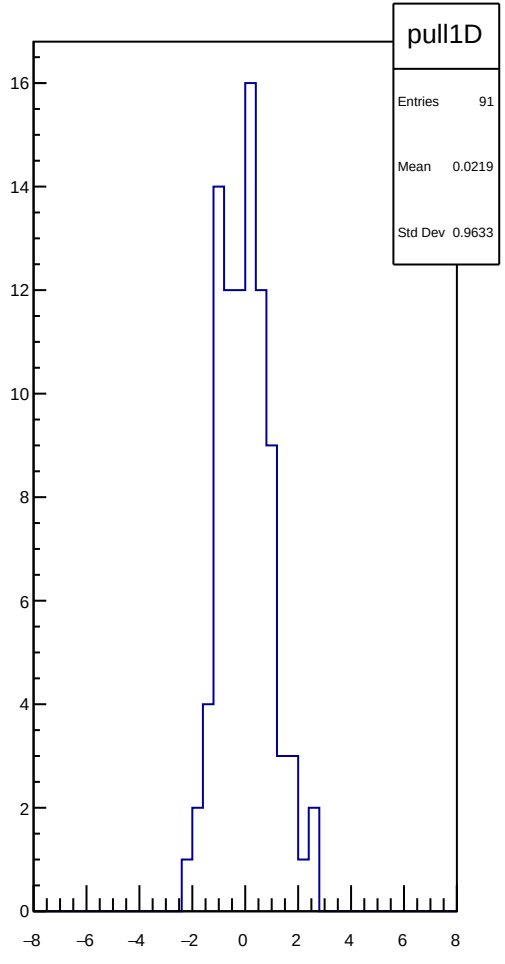

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 3045 / 90
p0 1189 ± 0.9
1350
1300
1250
1200
1150
1100

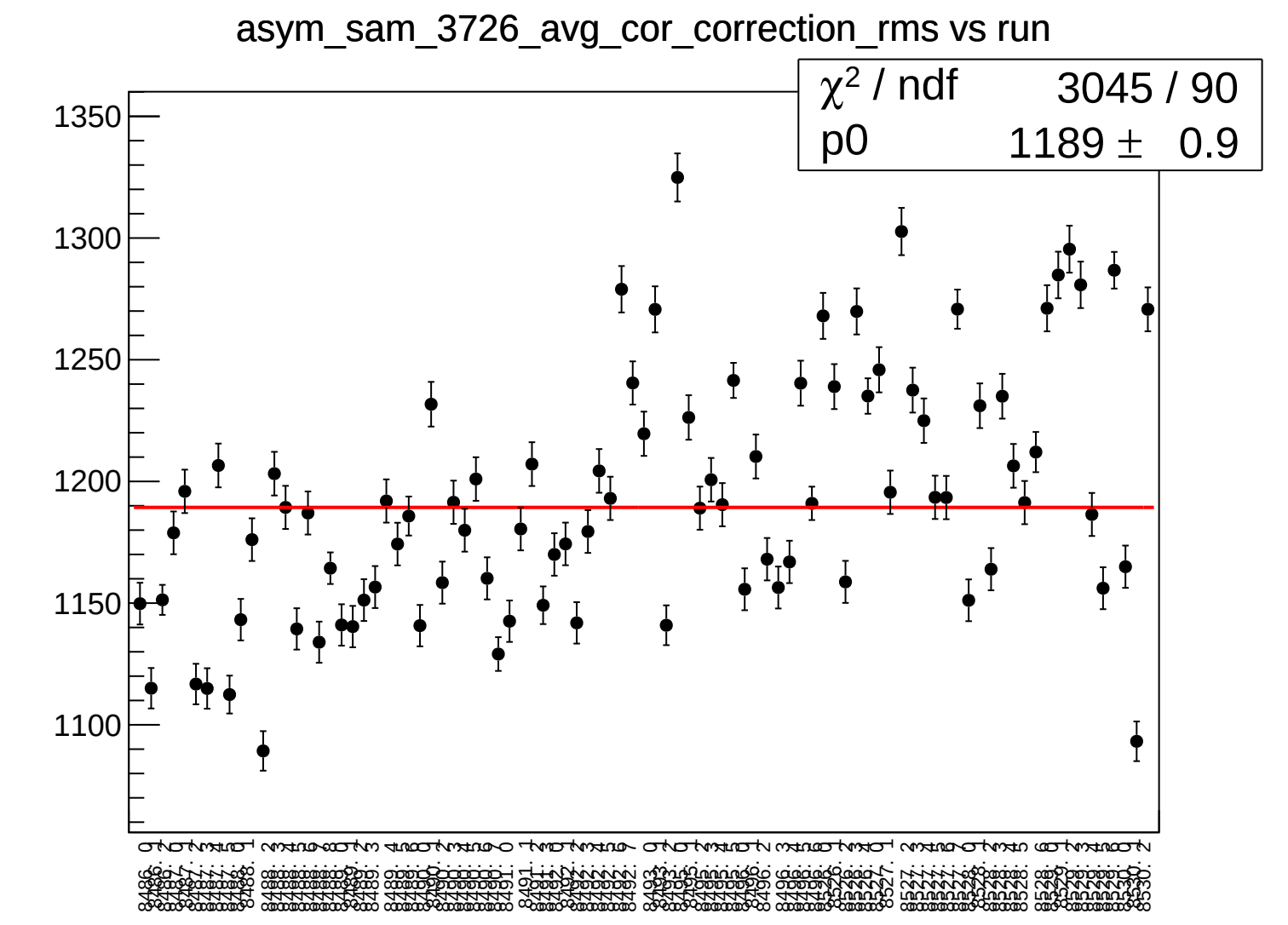

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 93.87 / 90
p0 329.9 ± 118.2
pull
Entries 91
Mean −157.8
Std Dev 0

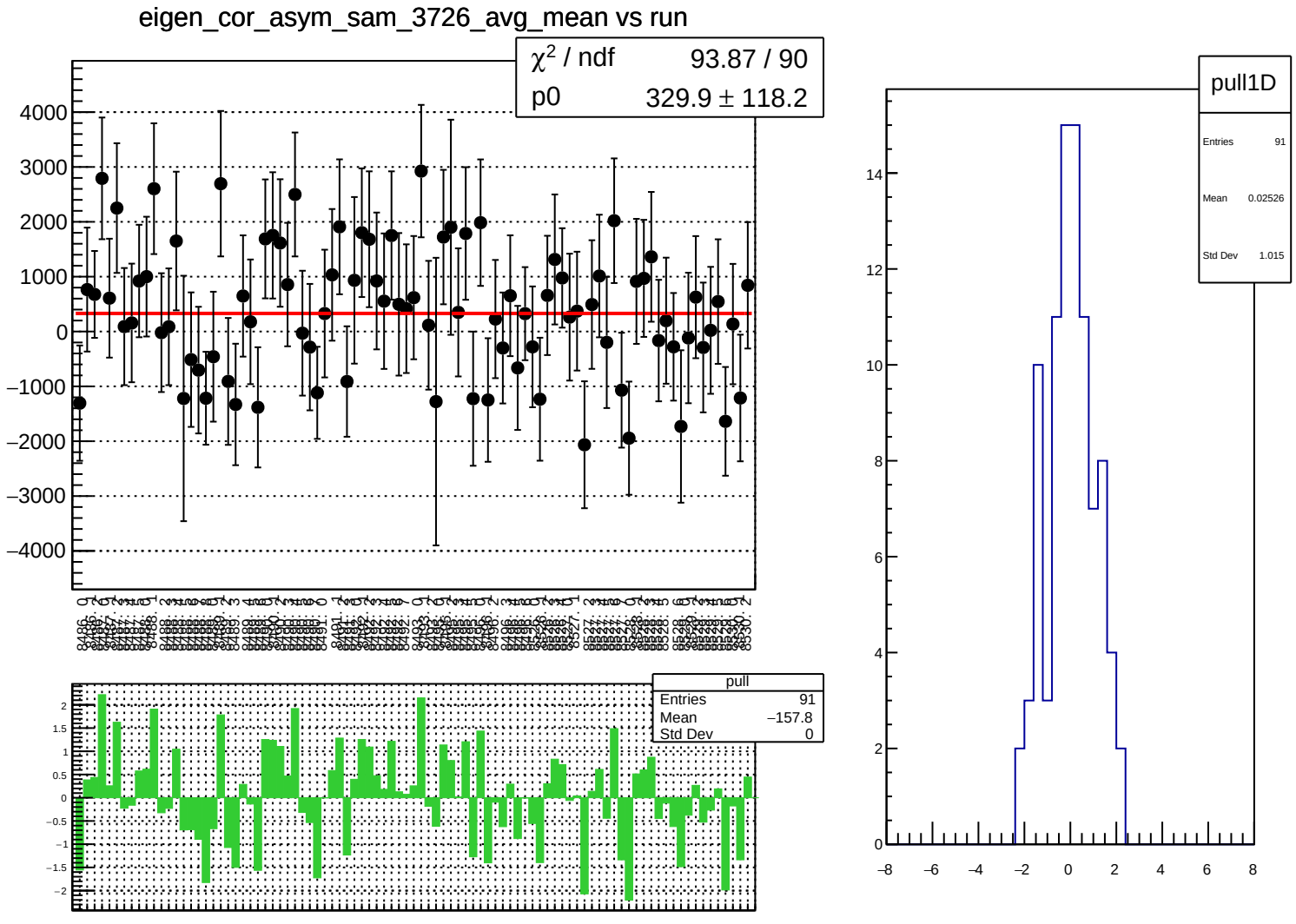

pull1D
Entries 91
Mean 0.02526
Std Dev 1.015

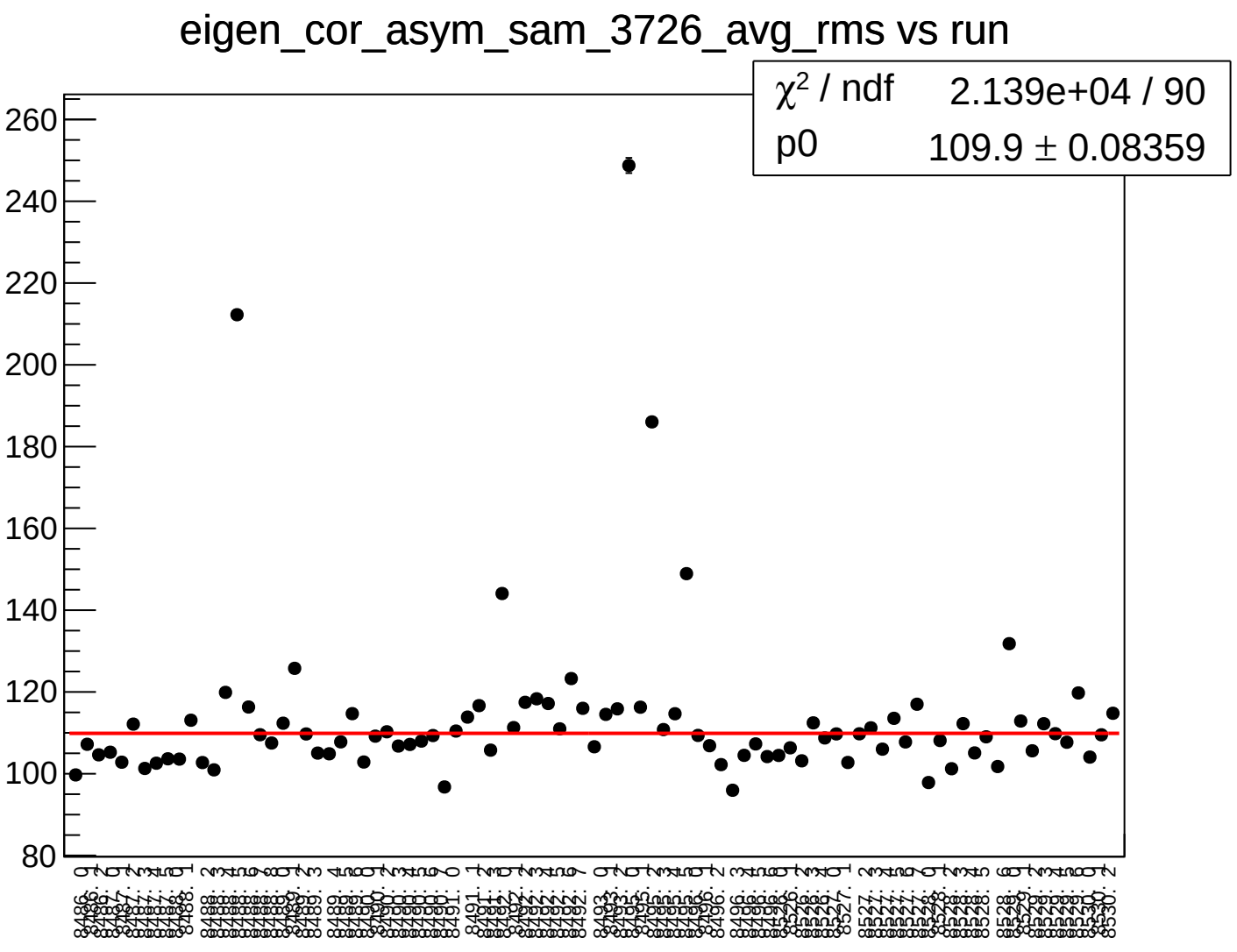

cor_asym_sam_3726_avg_rms vs run
χ² / ndf 2.139e+04 / 90
p0 109.9 ± 0.08359
260
240
220
200
180
160
140
120
100
80

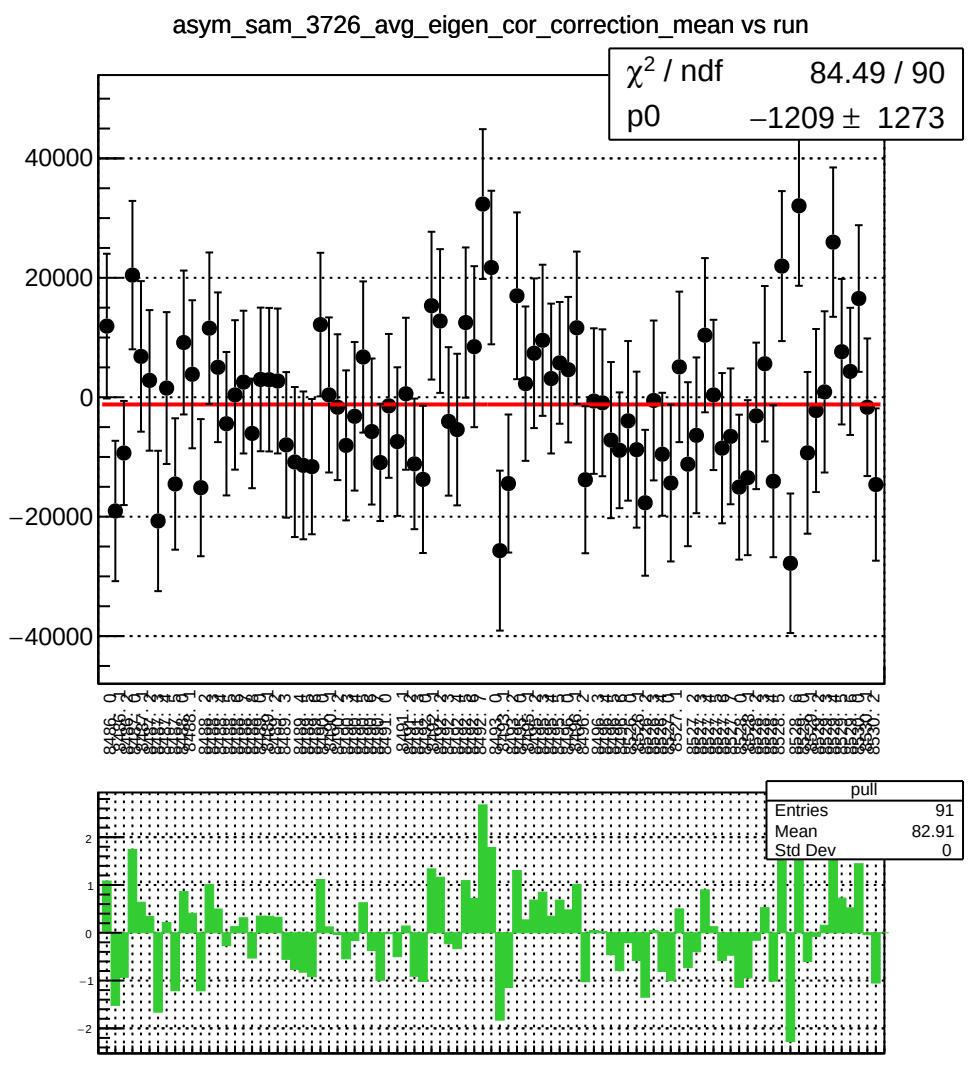

asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 84.49 / 90
p0 −1209 ± 1273
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 82.91
Std Dev 0
2
1
0
−1
−2

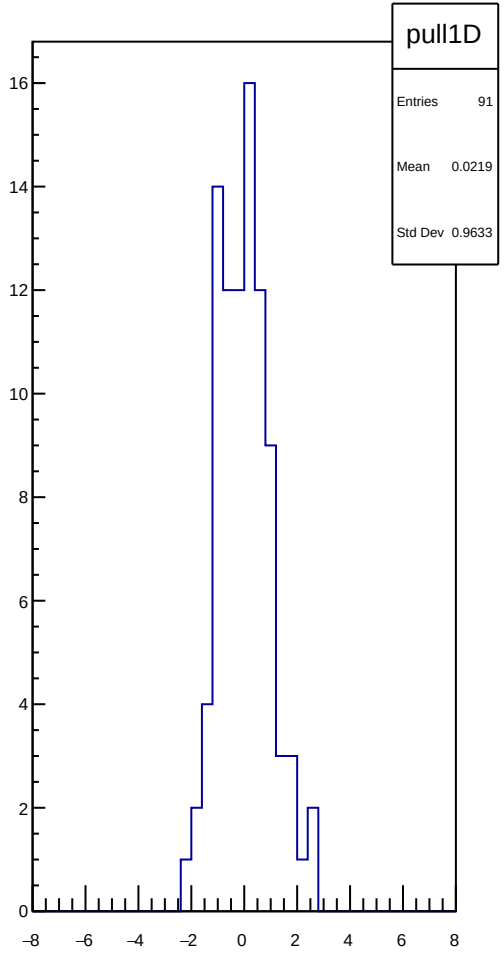

pull1D
Entries 91
Mean 0.0219
Std Dev 0.9633
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

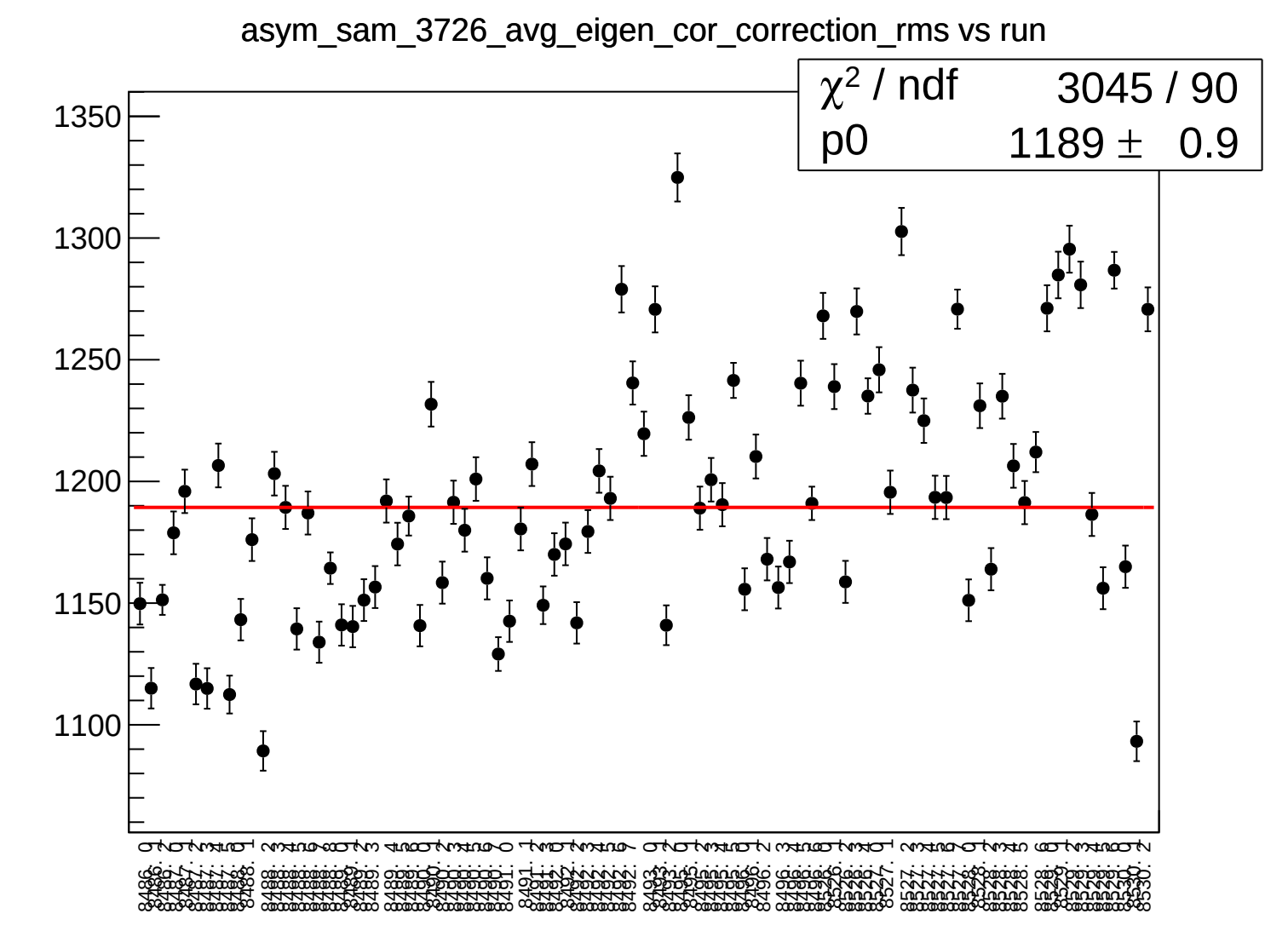

asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 3045 / 90
p0 1189 ± 0.9
1350
1300
1250
1200
1150
1100

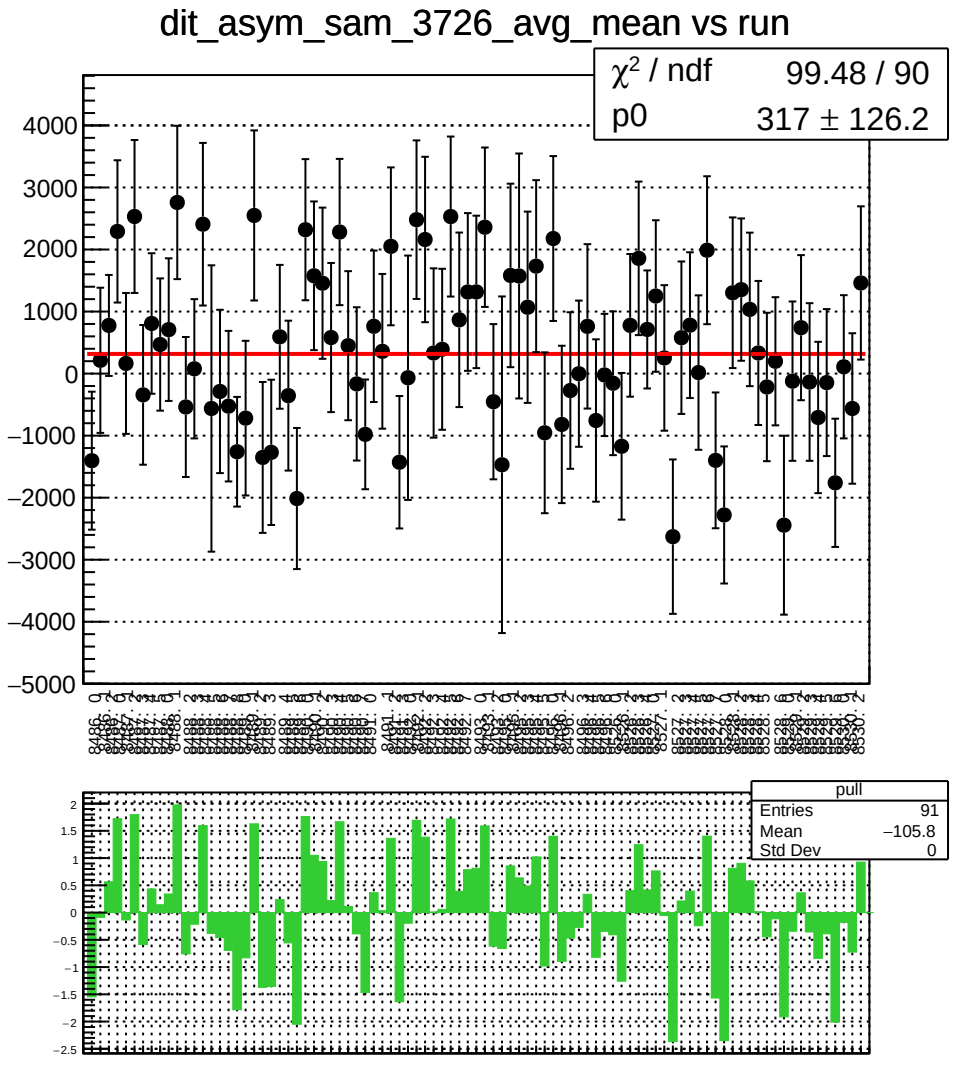

eigen_cor_asym_sam_3726_avg_mean vs run
χ^2 / ndf 93.87 / 90
p0 329.9 ± 118.2
pull
Entries 91
Mean −157.8
Std Dev 0
pull1D
Entries 91
Mean 0.02526
Std Dev 1.015

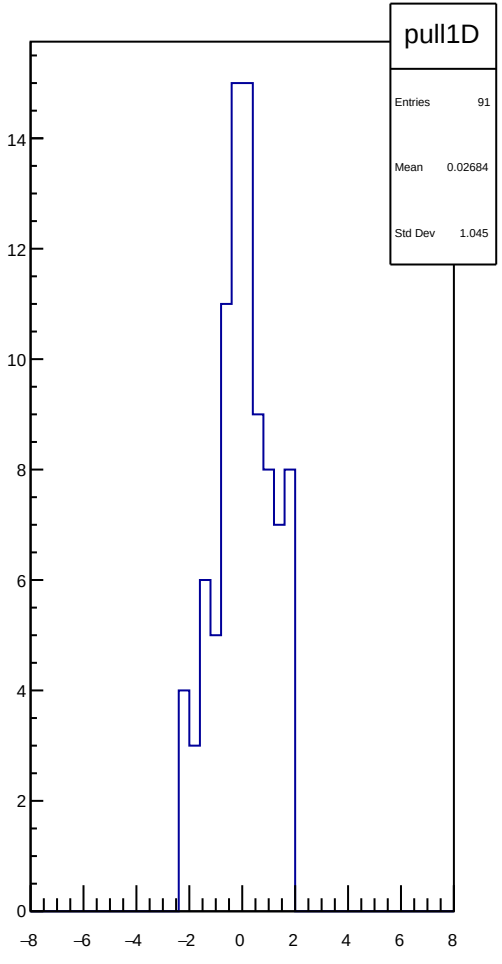

eigen_cor_asym_sam_3726_avg_rms vs run
χ² / ndf 2.139e+04 / 90
p0 109.9 ± 0.08359
260
240
220
200
180
160
140
120
100
80

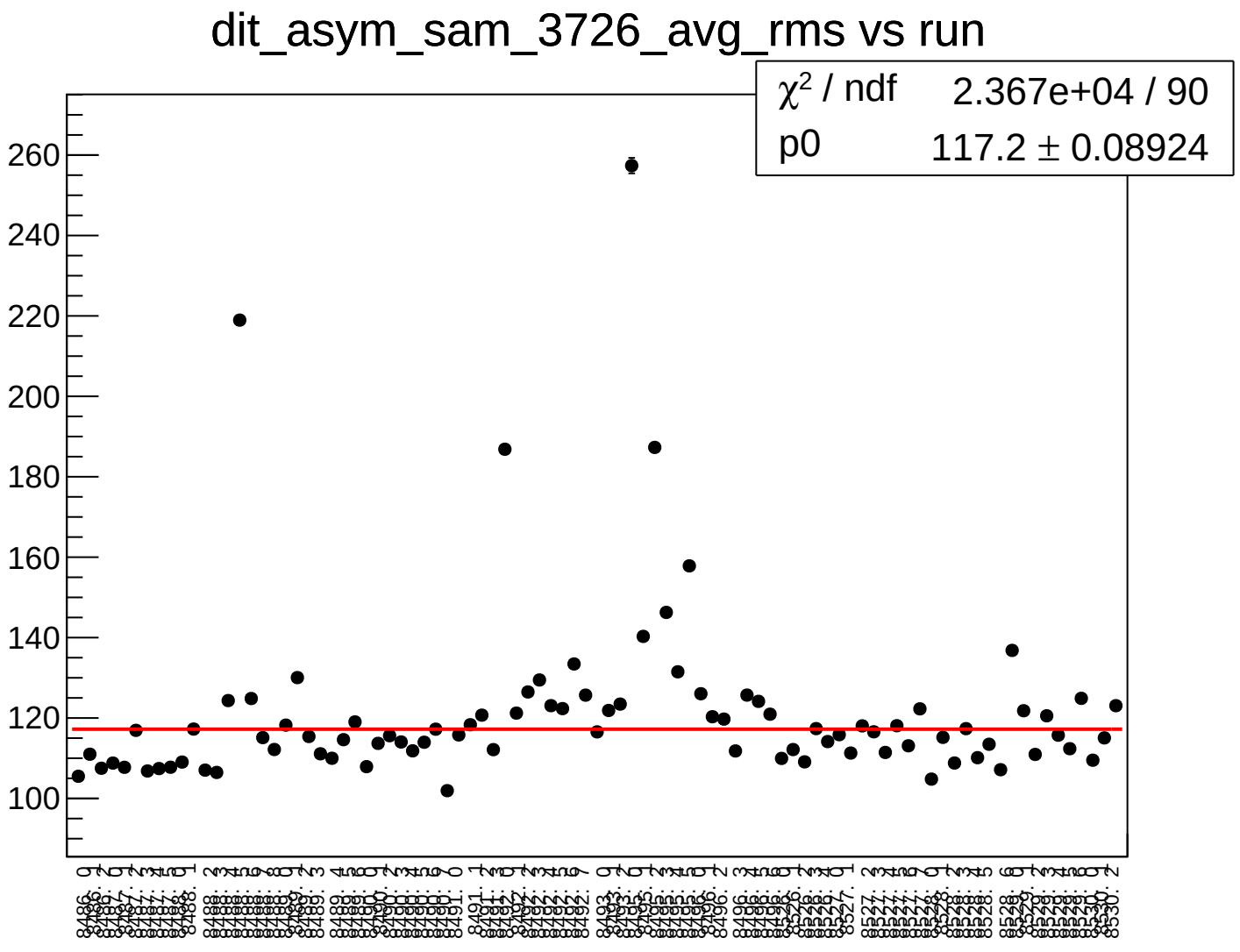

asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 84.49 / 90
p0 −1209 ± 1273
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 82.91
Std Dev 0
2
1
0
−1
−2

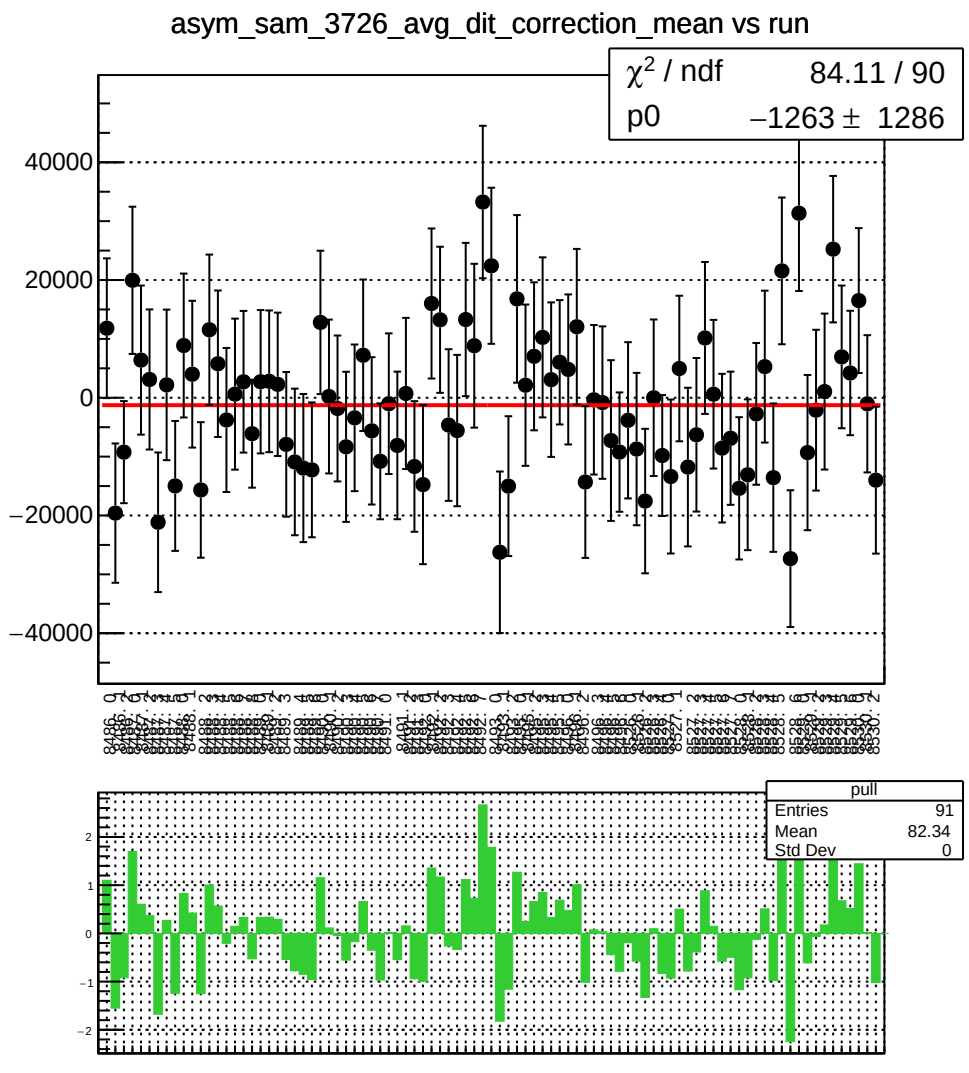

pull1D
Entries 91
Mean 0.0219
Std Dev 0.9633
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

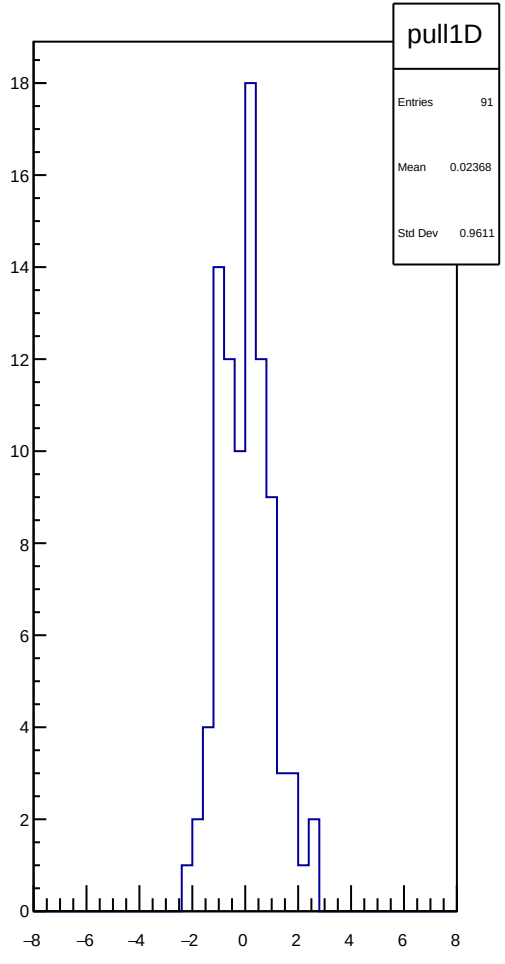

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 3045 / 90
p0 1189 ± 0.9
1350
1300
1250
1200
1150
1100

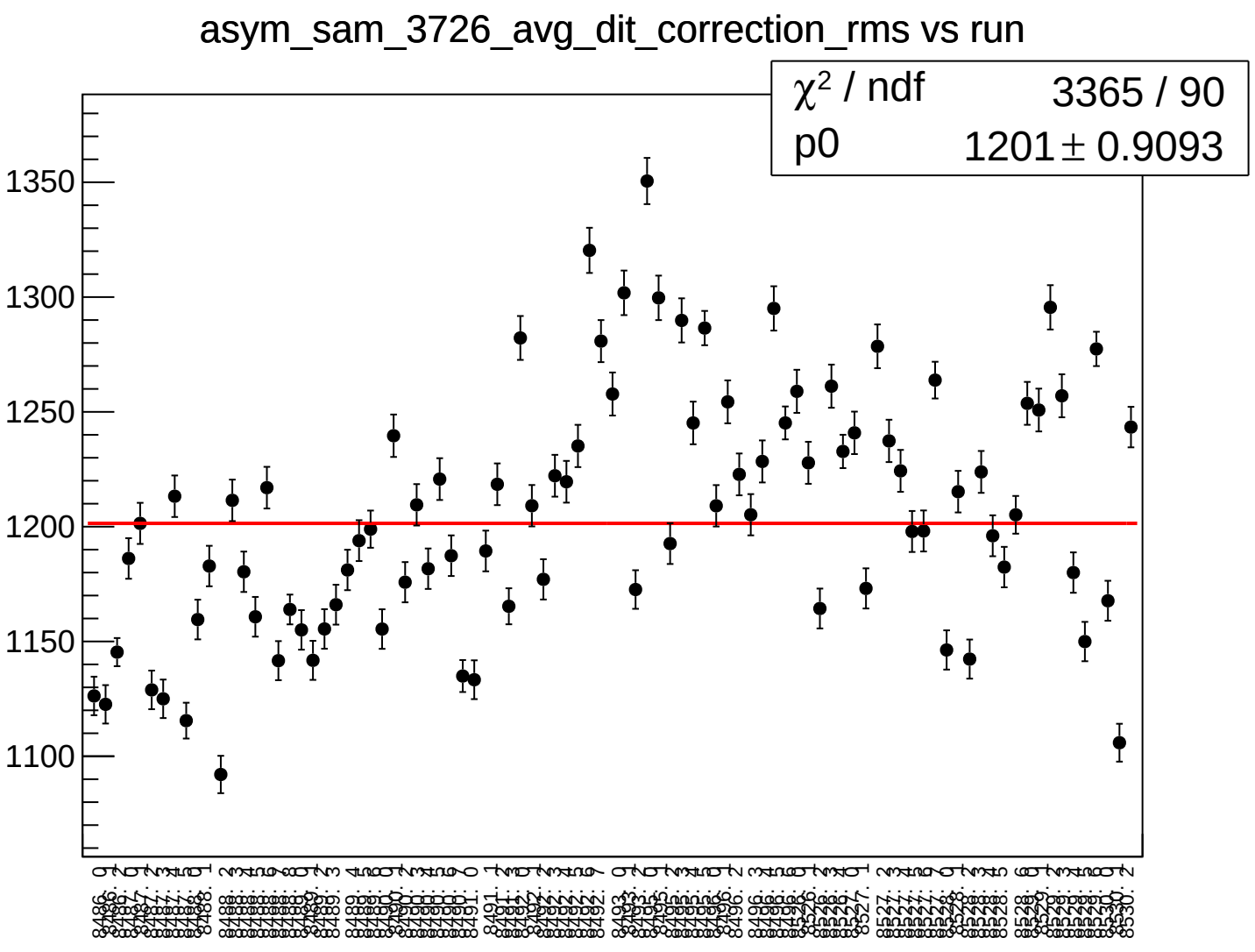

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 99.48 / 90
p0 317 ± 126.2
pull
Entries 91
Mean −105.8
Std Dev 0

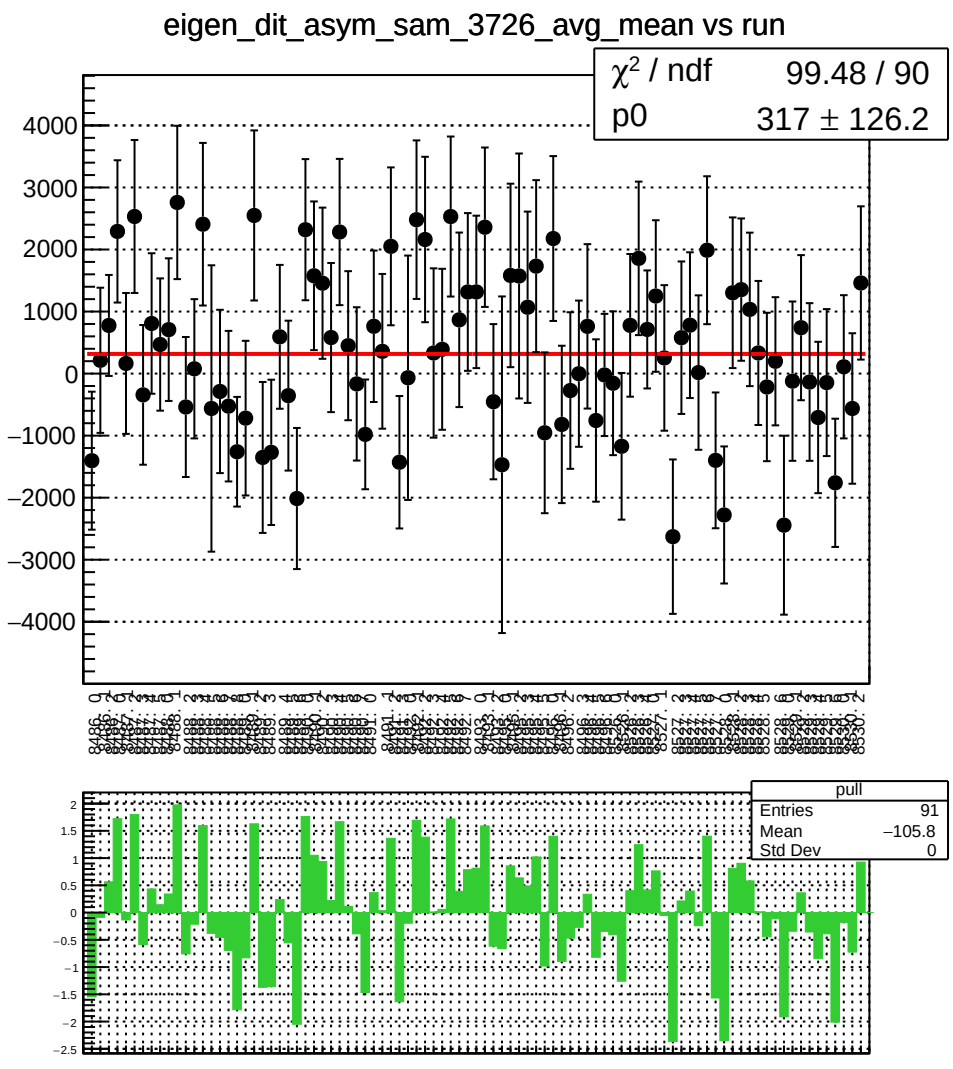

pull1D
Entries 91
Mean 0.02684
Std Dev 1.045

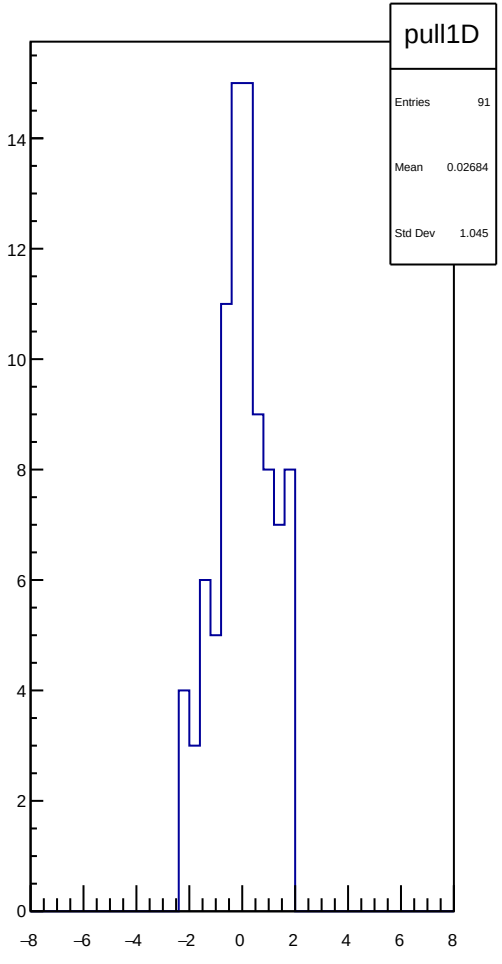

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 2.367e+04 / 90
p0 117.2 ± 0.08924
260
240
220
200
180
160
140
120
100

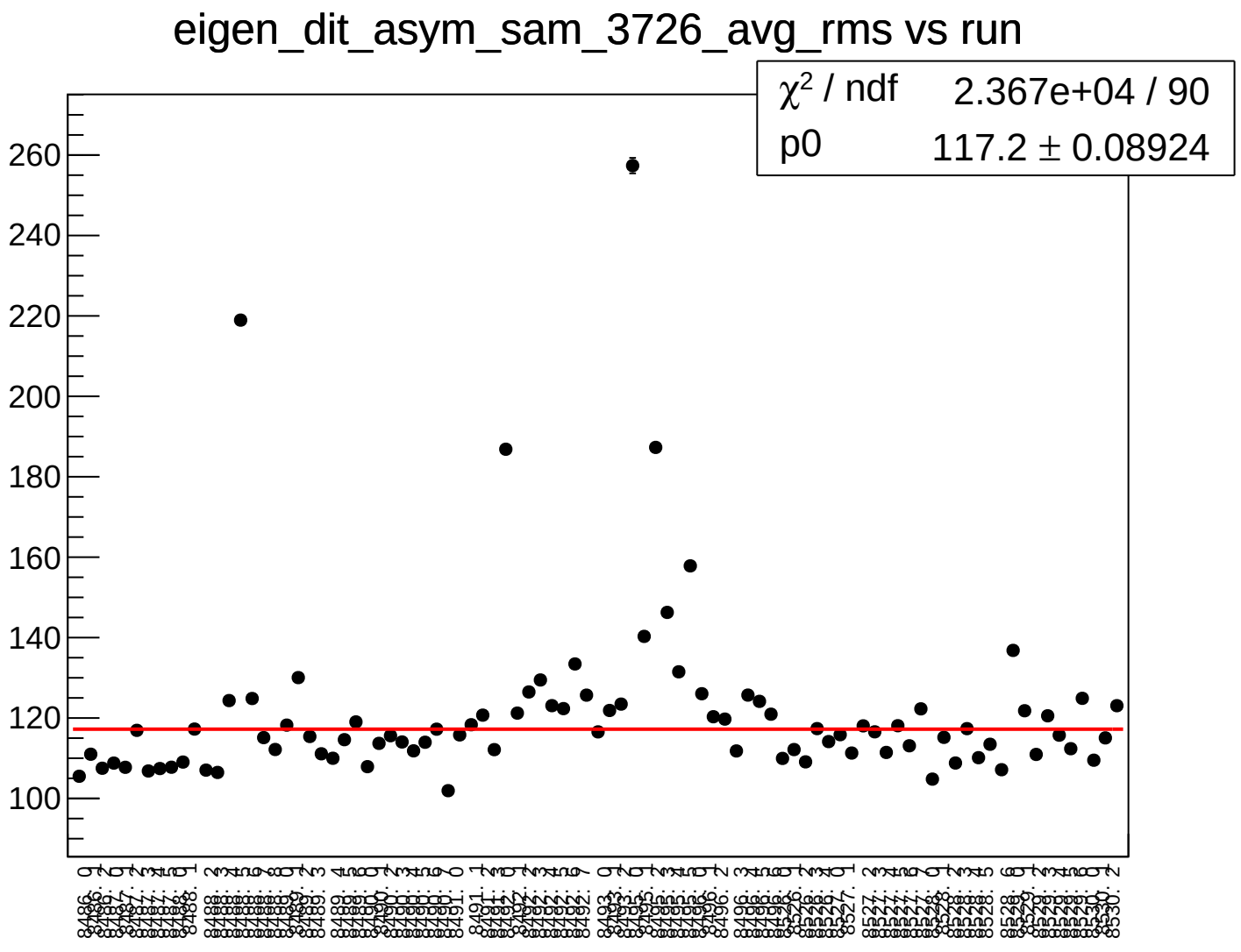

asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 84.11 / 90
p0 −1263 ± 1286
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 82.34
Std Dev 0
2
1
0
−1
−2

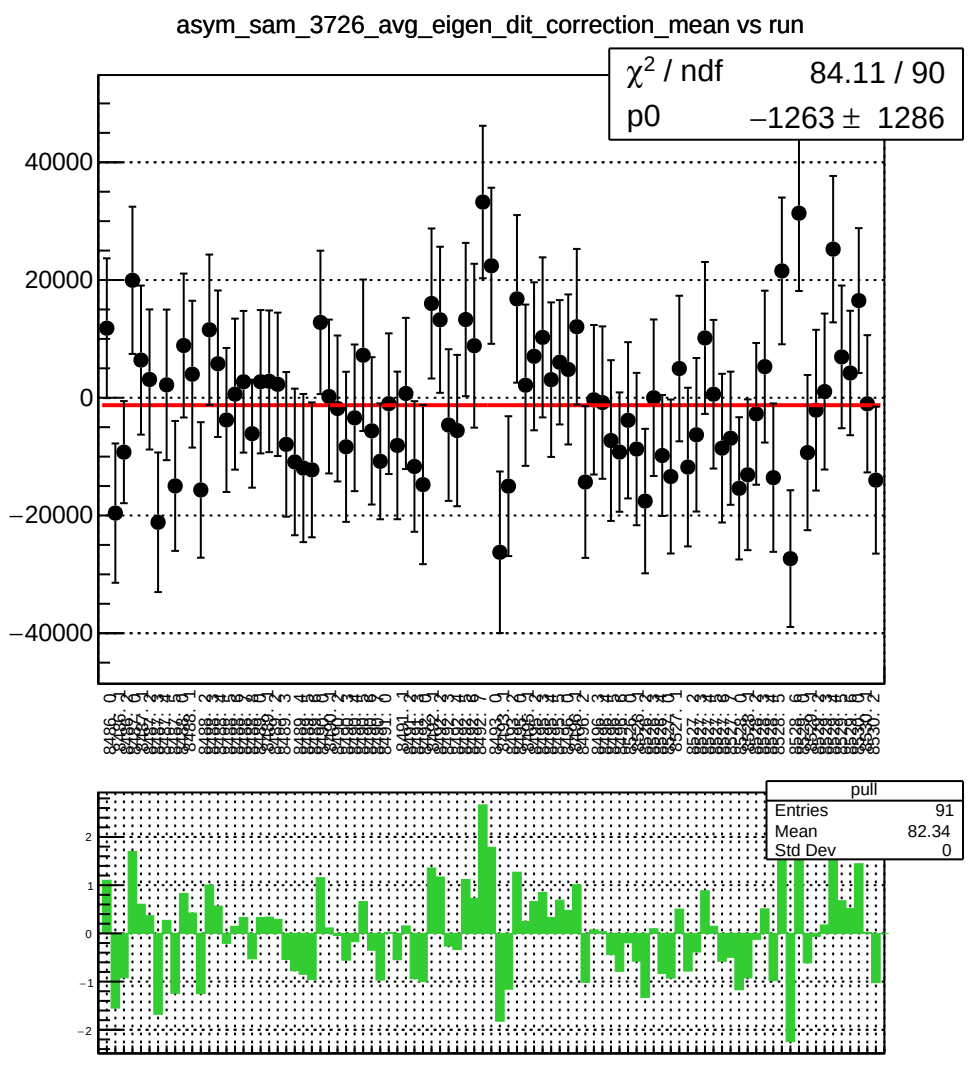

pull1D
Entries 91
Mean 0.02368
Std Dev 0.9611
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

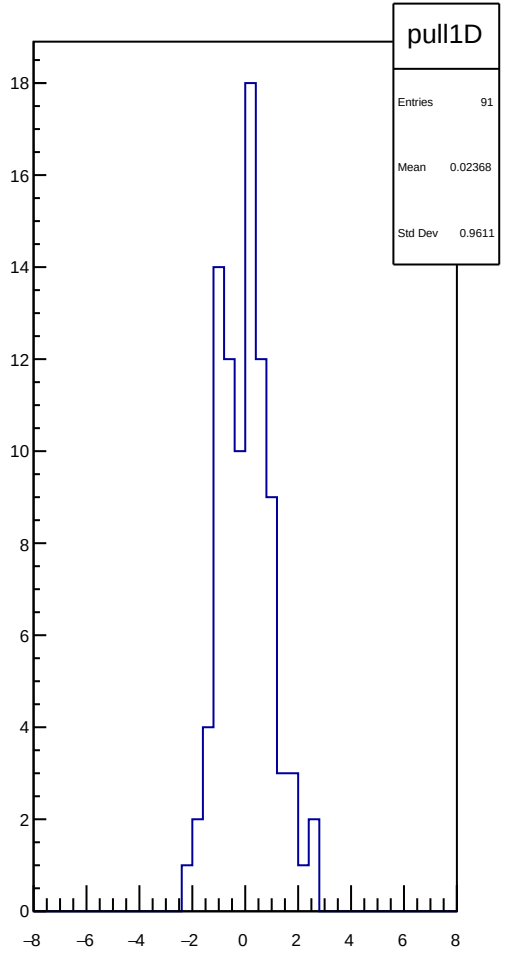

asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 3365 / 90
p0 1201 ± 0.9093
1350
1300
1250
1200
1150
1100

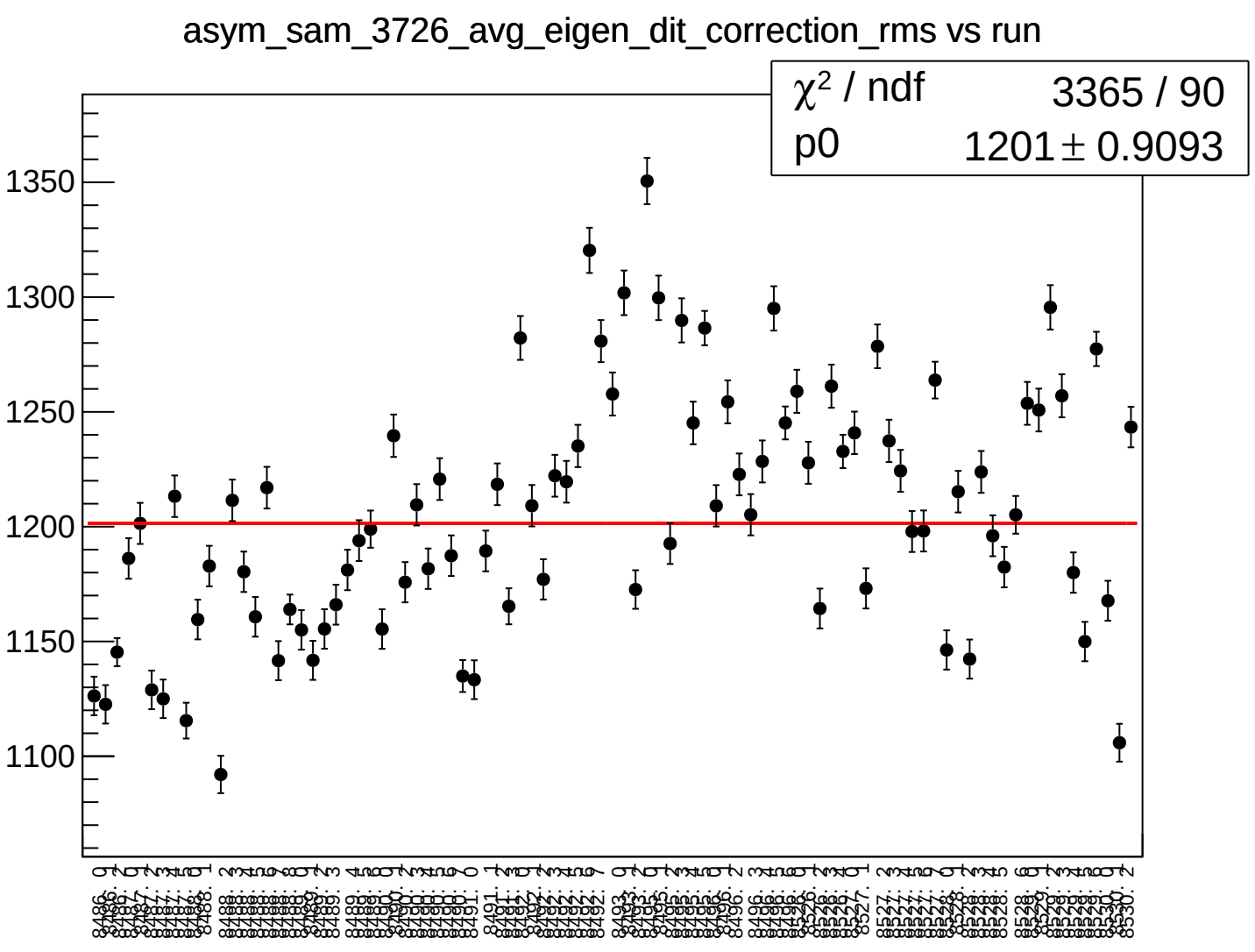

eigen_dit_asym_sam_3726_avg_mean vs run
χ^2 / ndf 99.48 / 90
p0 317 ± 126.2
pull
Entries 91
Mean −105.8
Std Dev 0

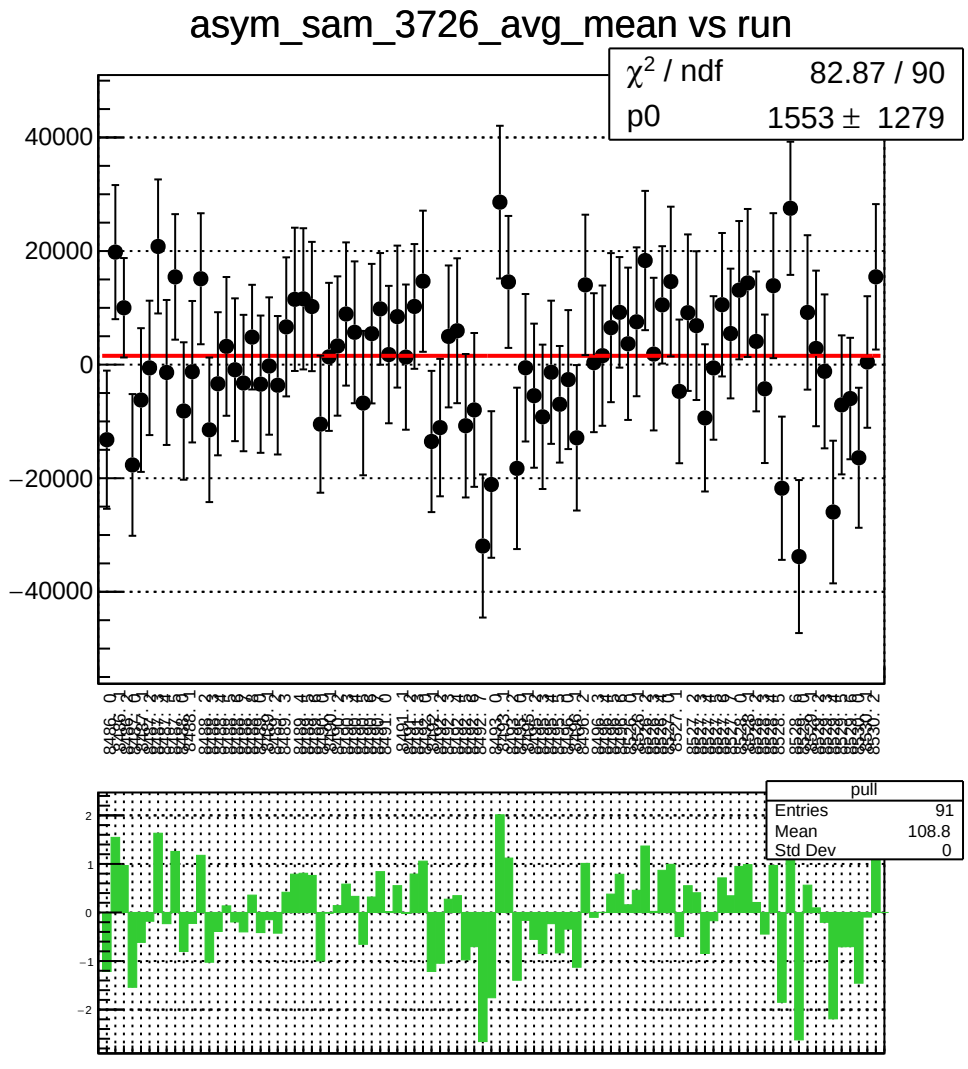

pull1D
Entries 91
Mean 0.02684
Std Dev 1.045

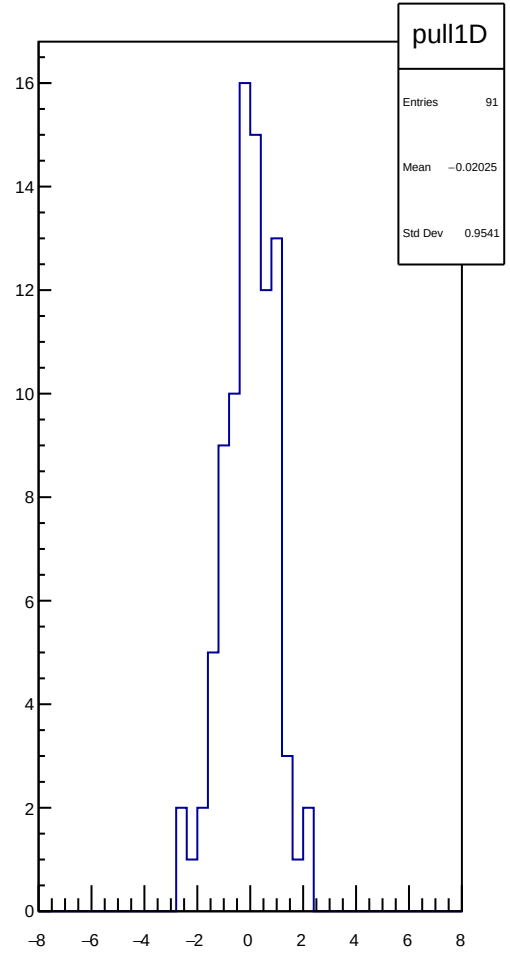

eigen_dit_asym_sam_3726_avg_rms vs run
χ² / ndf 2.367e+04 / 90
p0 117.2 ± 0.08924
260
240
220
200
180
160
140
120
100

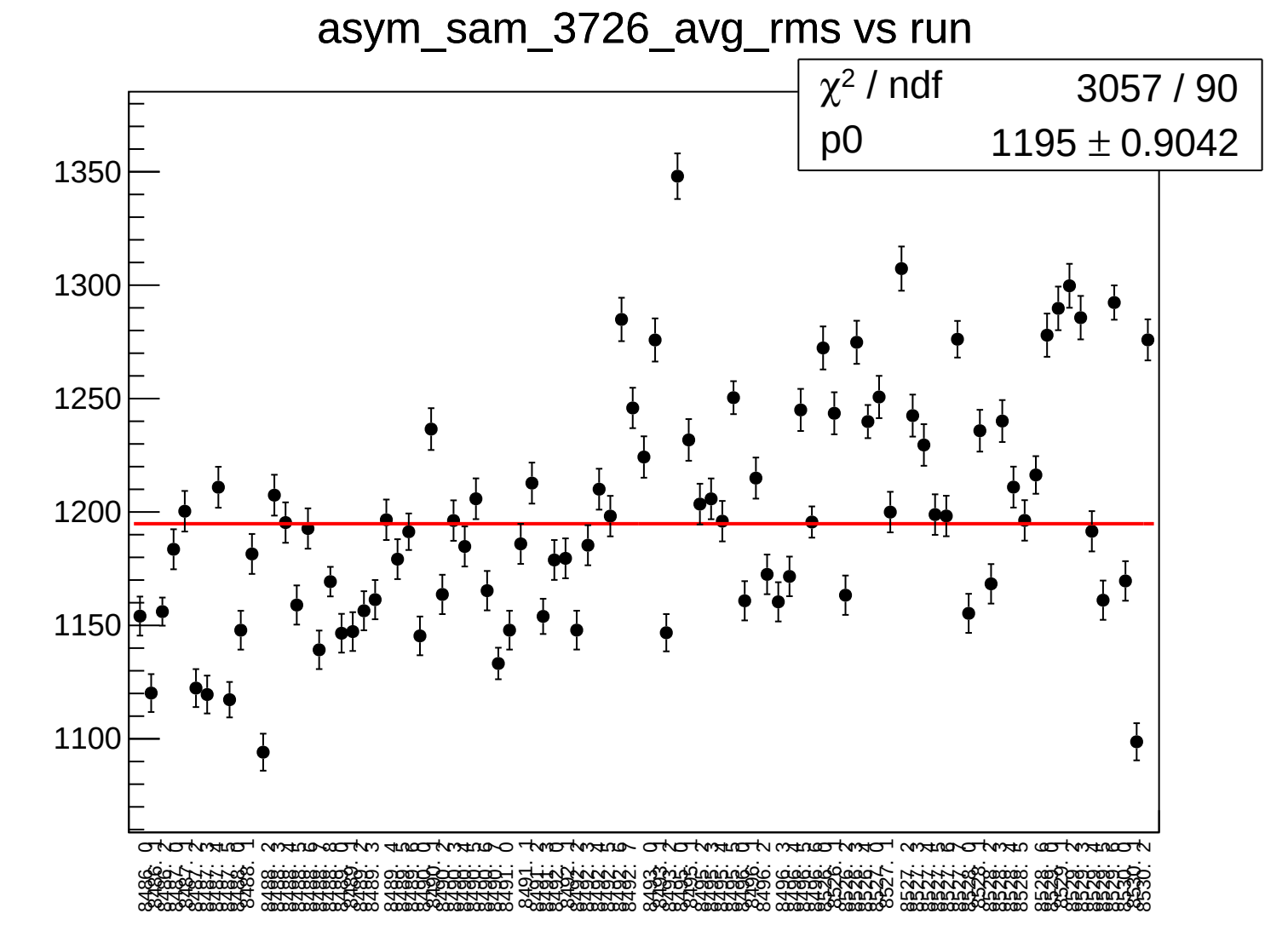

asym_sam_3726_avg_eigen_dit_correction_mean vs run
χ² / ndf 84.11 / 90
p0 −1263 ± 1286
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 82.34
Std Dev 0
2
1
0
−1
−2

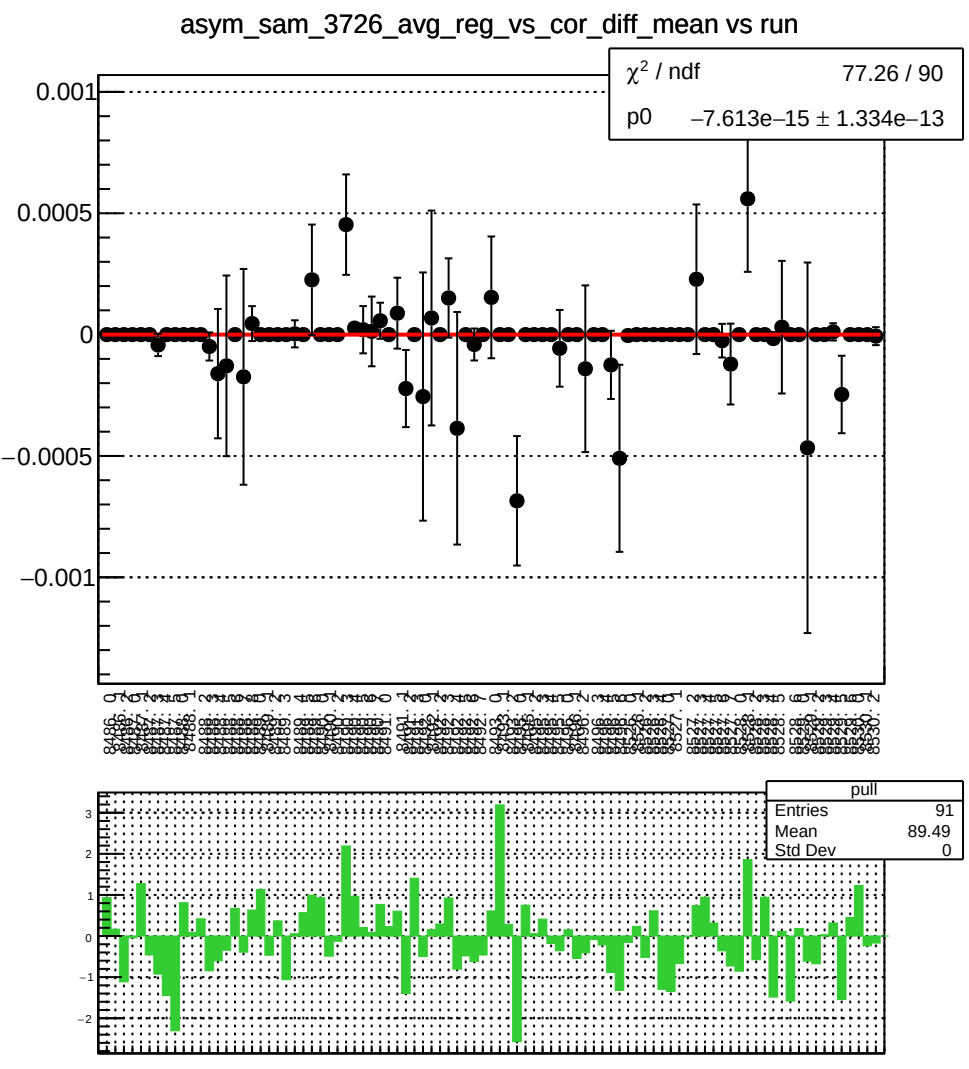

pull1D
Entries 91
Mean 0.02368
Std Dev 0.9611
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

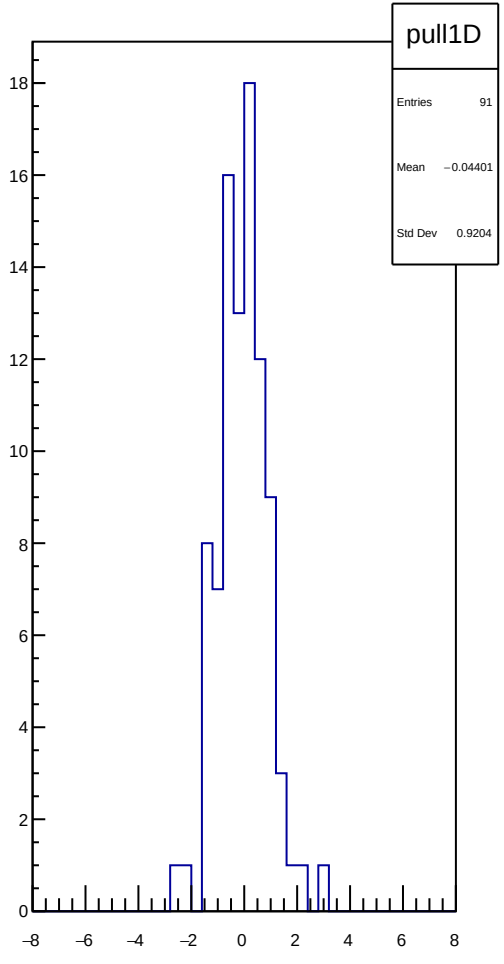

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 3365 / 90
p0 1201 ± 0.9093
1350
1300
1250
1200
1150
1100

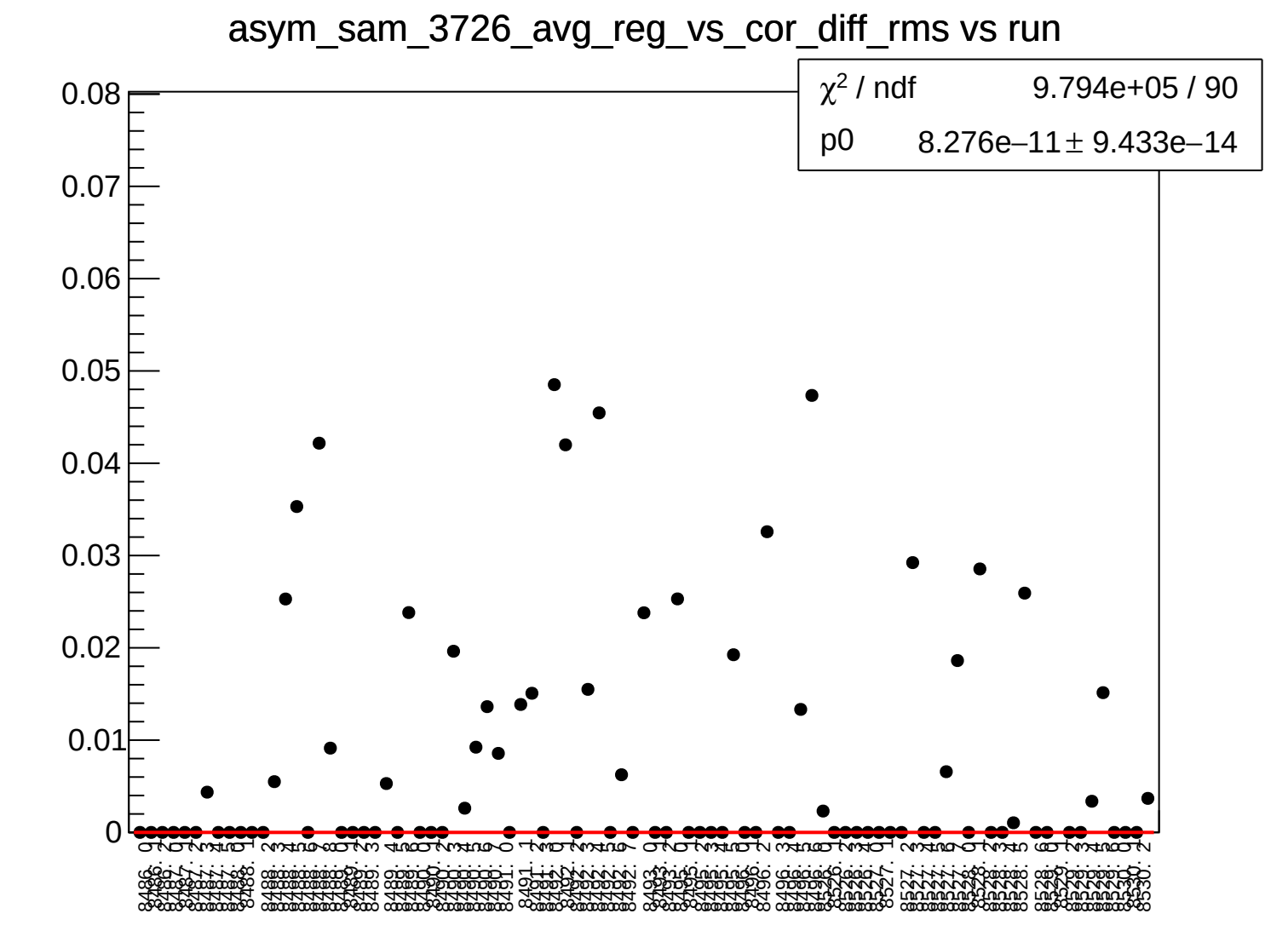

asym_sam_3726_avg_mean vs run
χ² / ndf 82.87 / 90
p0 1553 ± 1279
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 108.8
Std Dev 0
2
1
0
−1
−2

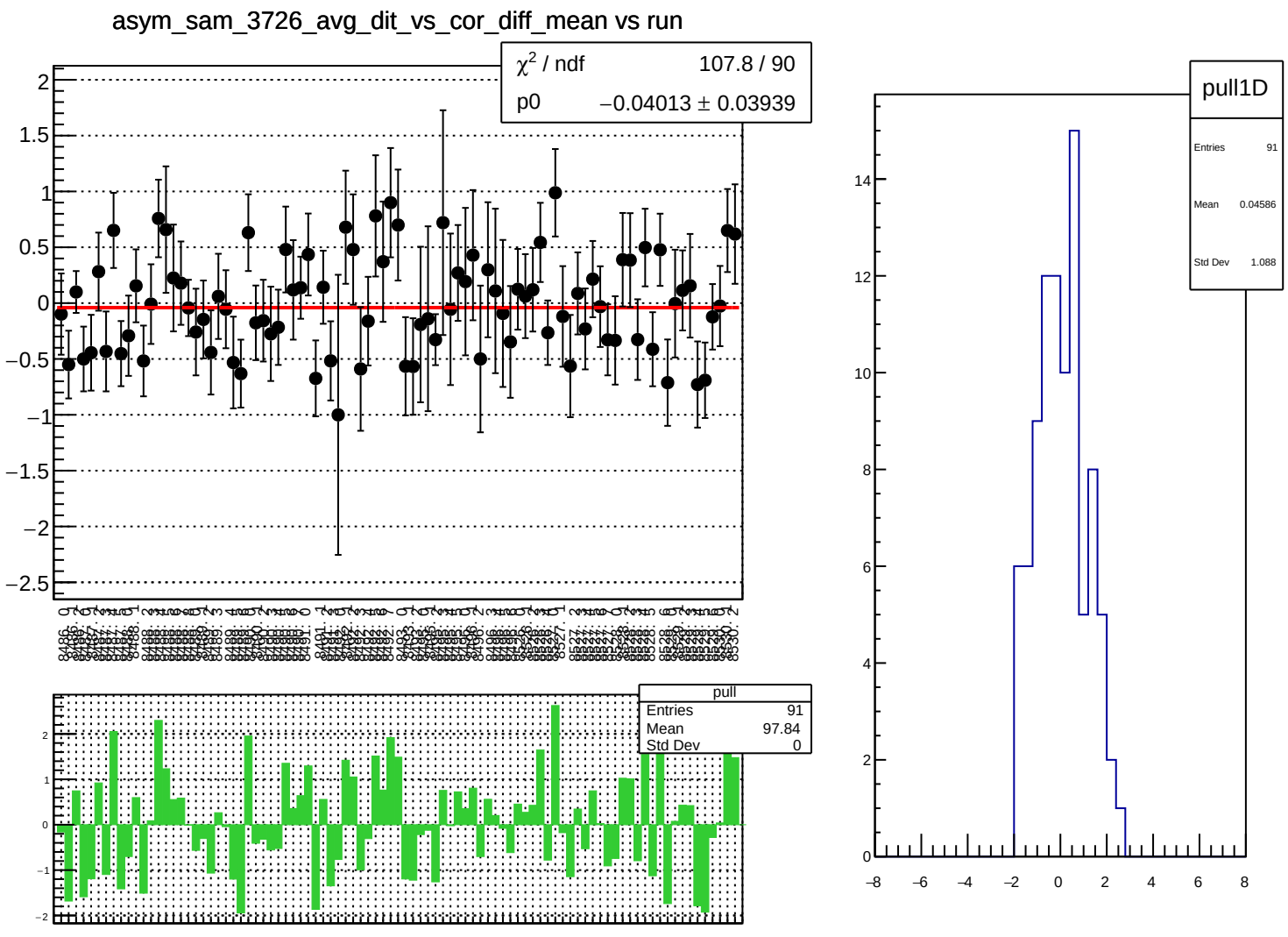

pull1D
Entries 91
Mean −0.02025
Std Dev 0.9541
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

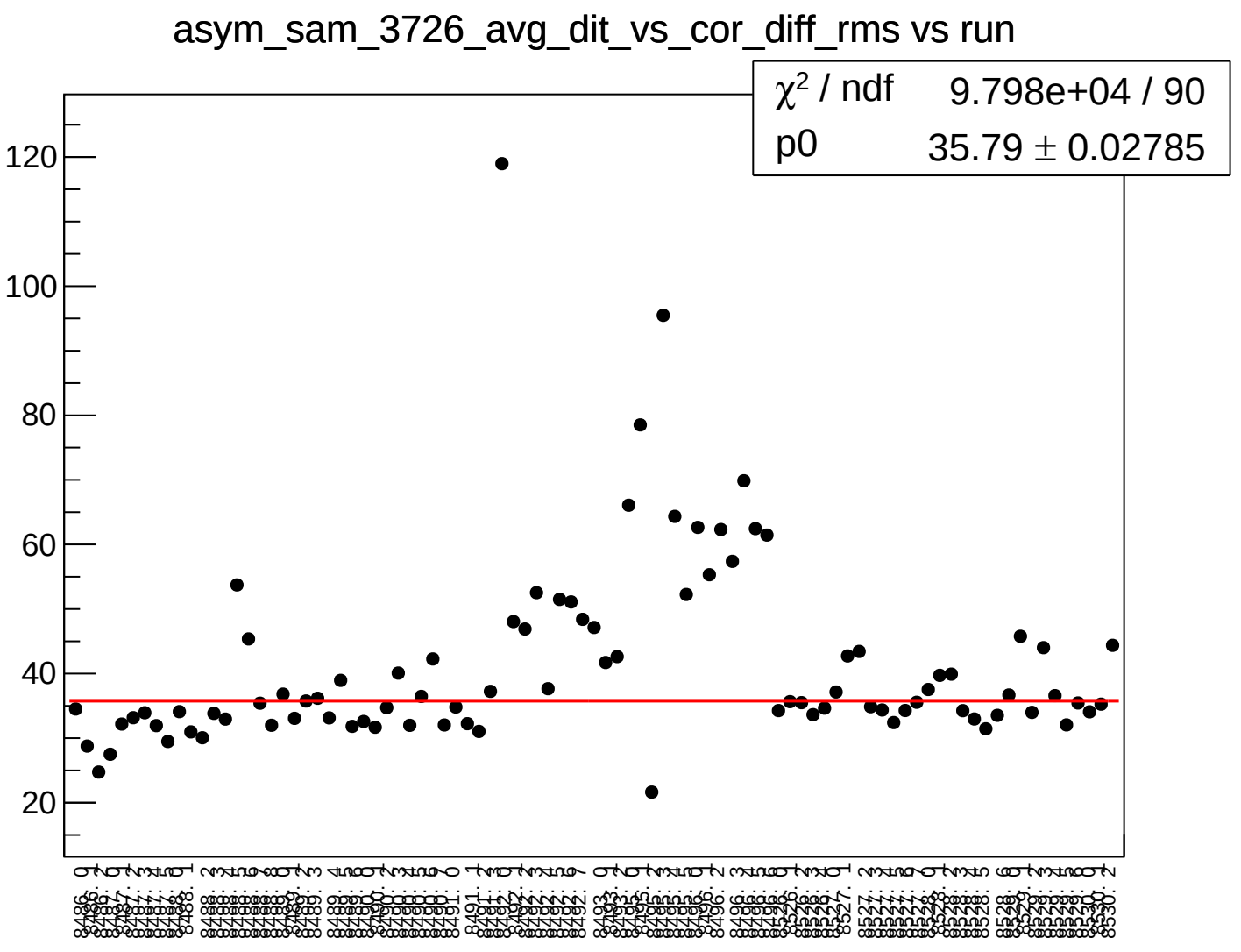

asym_sam_3726_avg_rms vs run
χ² / ndf 3057 / 90
p0 1195 ± 0.9042
1350
1300
1250
1200
1150
1100

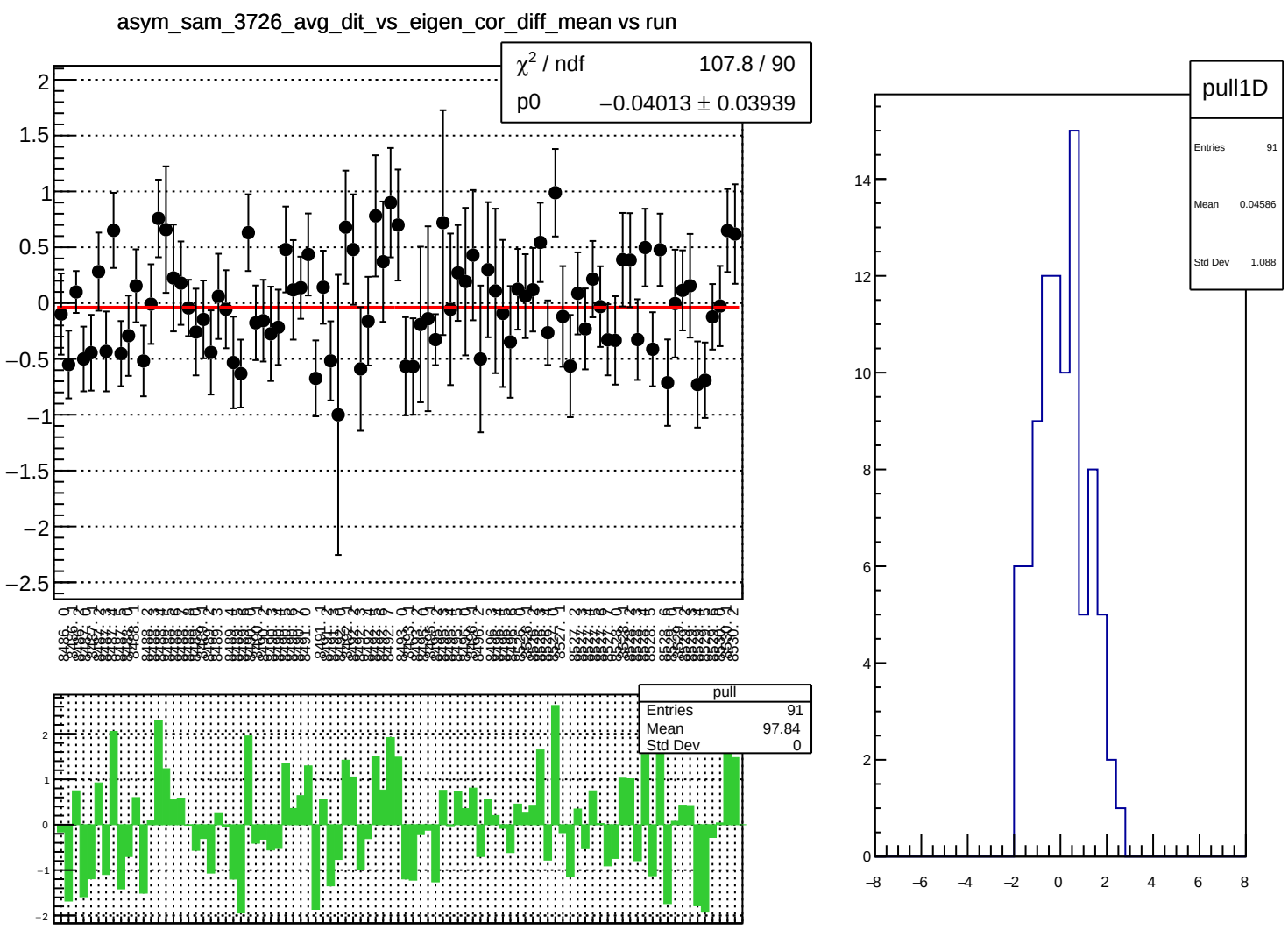

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 77.26 / 90
p0 −7.613e−15 ± 1.334e−13
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 91
Mean 89.49
Std Dev 0
3
2
1
0
−1
−2

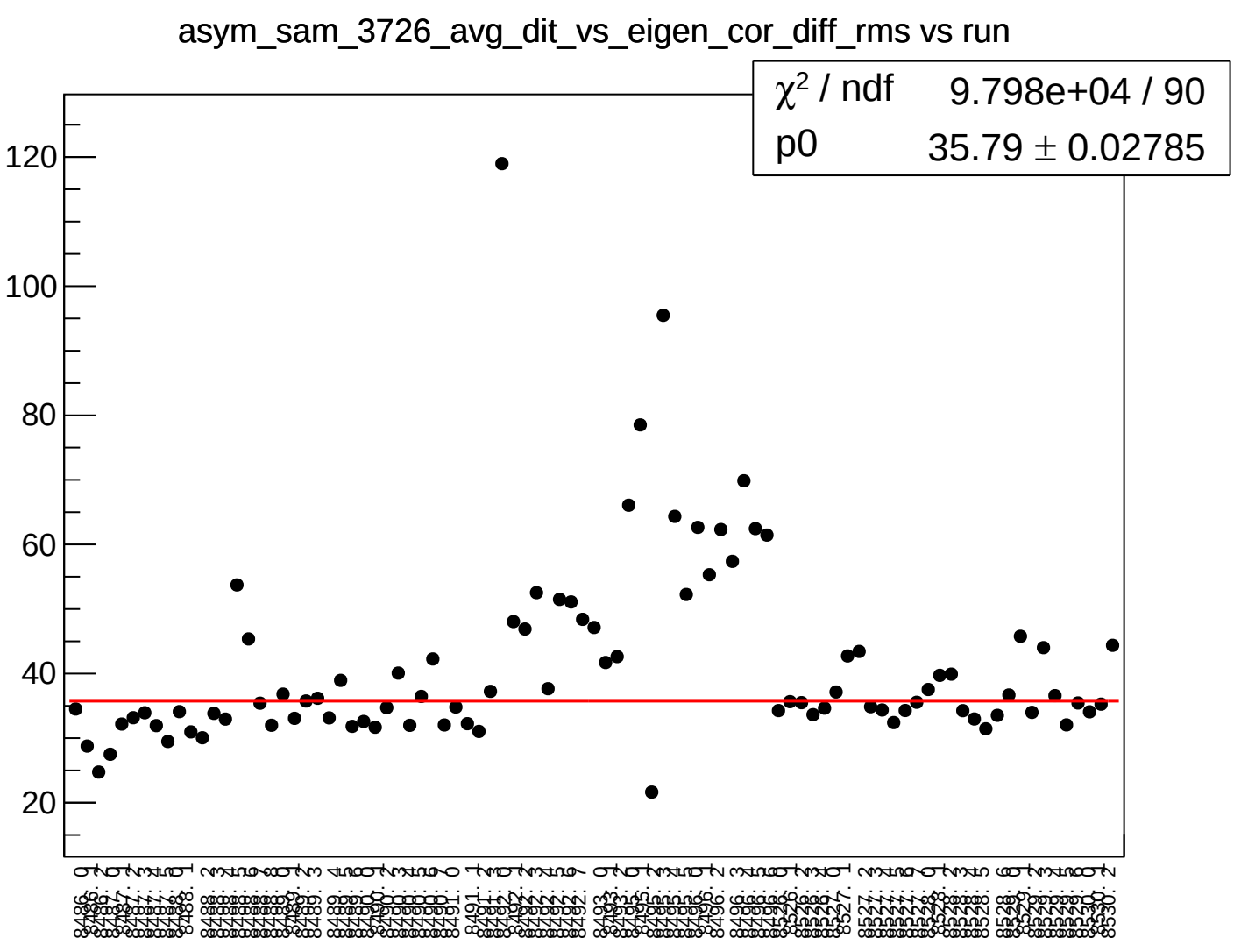

pull1D
Entries 91
Mean −0.04401
Std Dev 0.9204
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

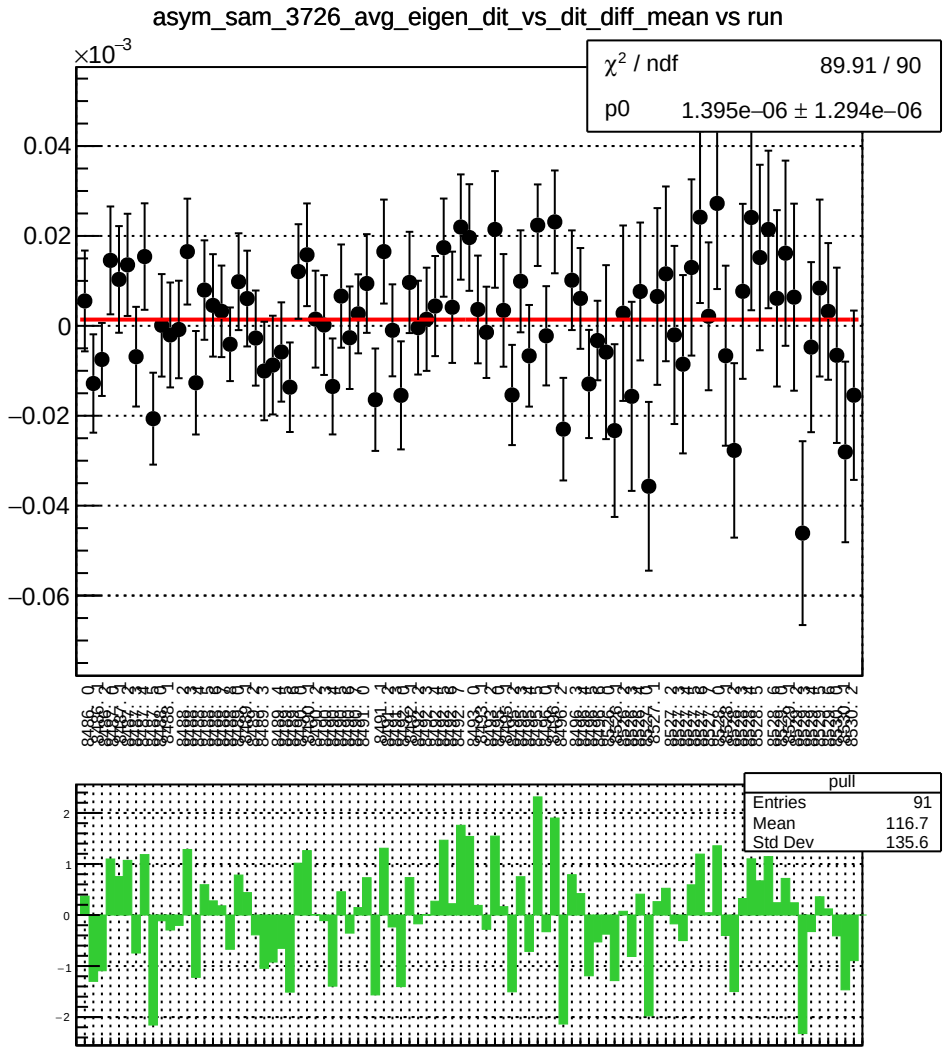

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.794e+05 / 90
p0 8.276e−11 ± 9.433e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

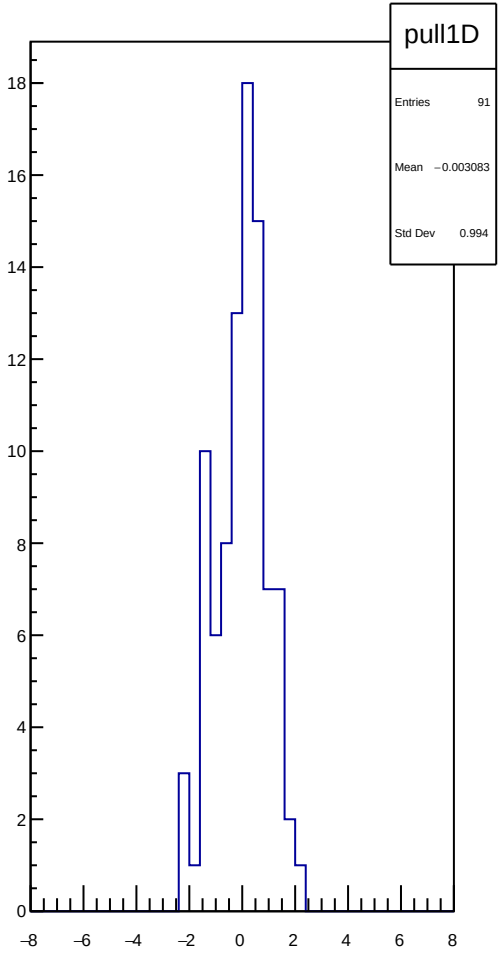

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 107.8 / 90
p0 −0.04013 ± 0.03939
pull
Entries 91
Mean 97.84
Std Dev 0
pull1D
Entries 91
Mean 0.04586
Std Dev 1.088

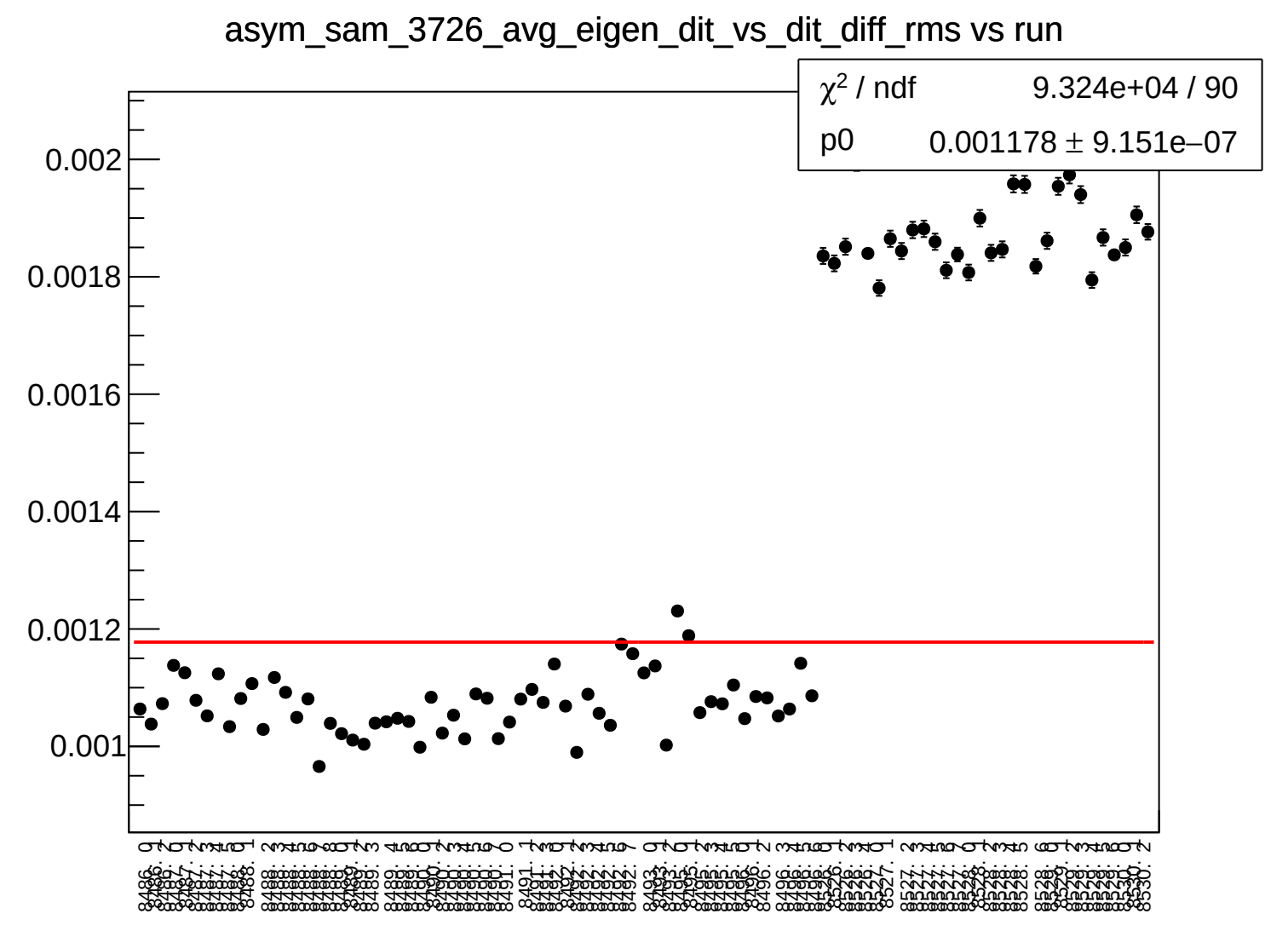

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.798e+04 / 90
p0 35.79 ± 0.02785
120
100
80
60
40
20

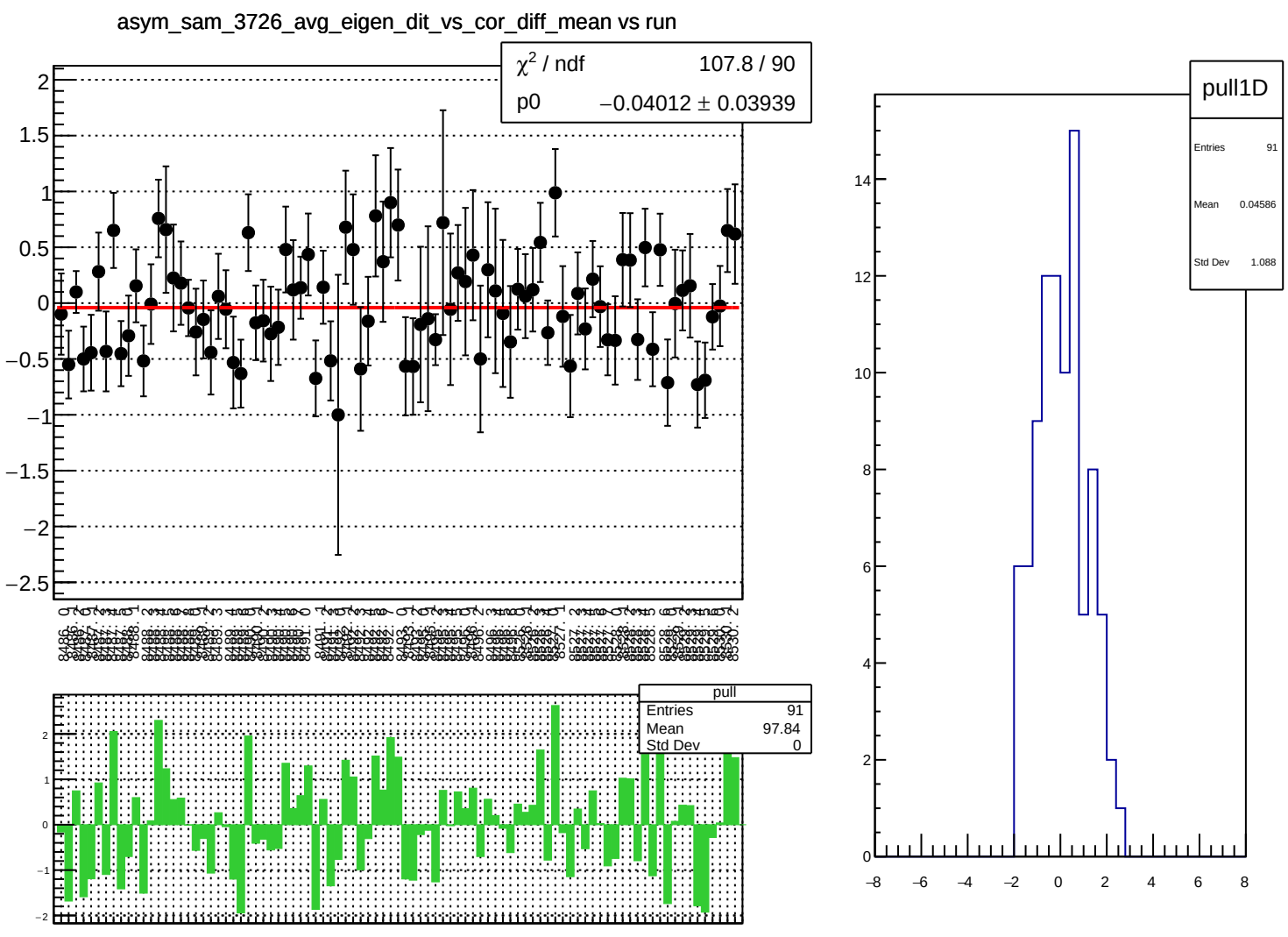

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.8 / 90
p0 −0.04013 ± 0.03939
pull
Entries 91
Mean 97.84
Std Dev 0
pull1D
Entries 91
Mean 0.04586
Std Dev 1.088

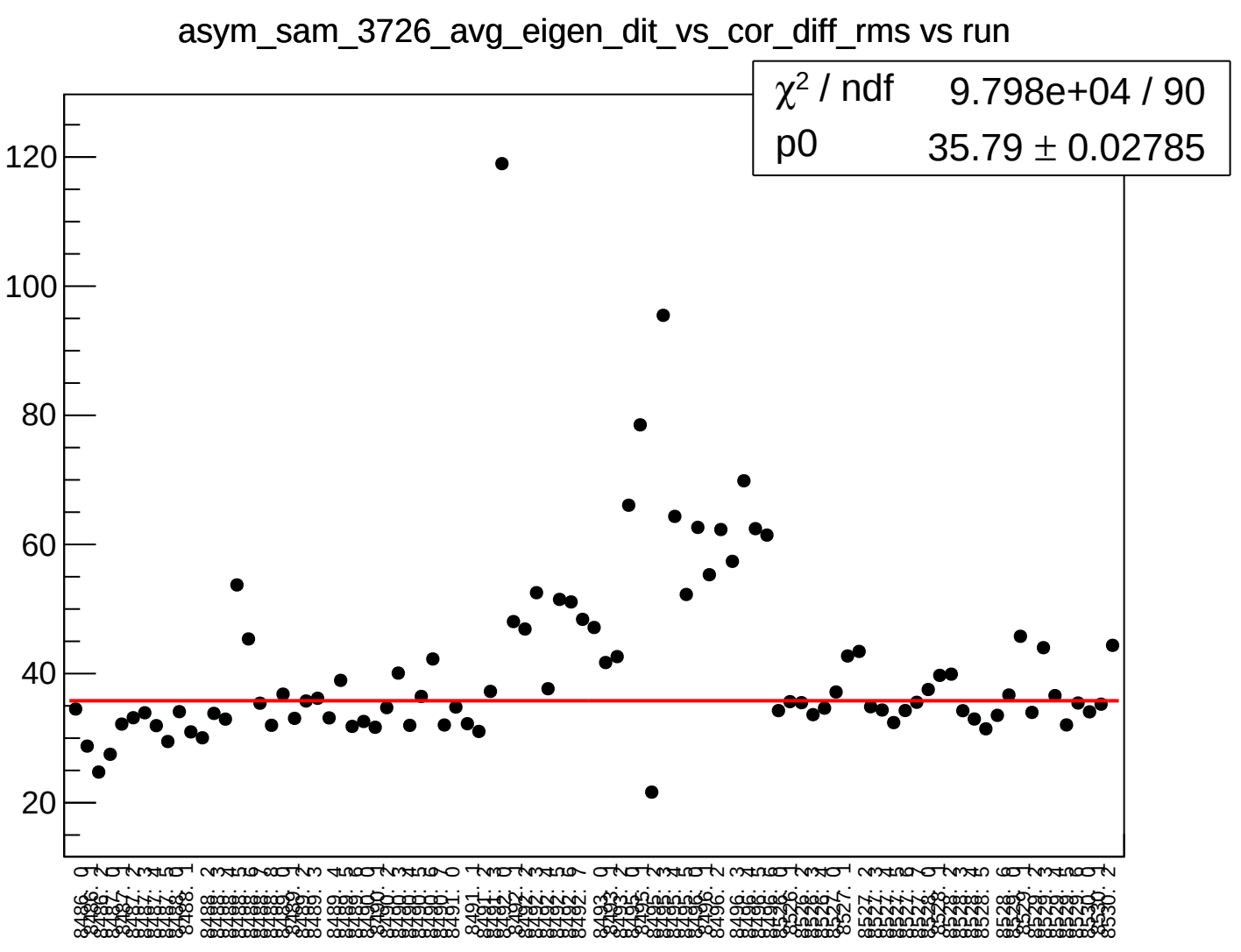

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 9.798e+04 / 90
p0 35.79 ± 0.02785
120
100
80
60
40
20

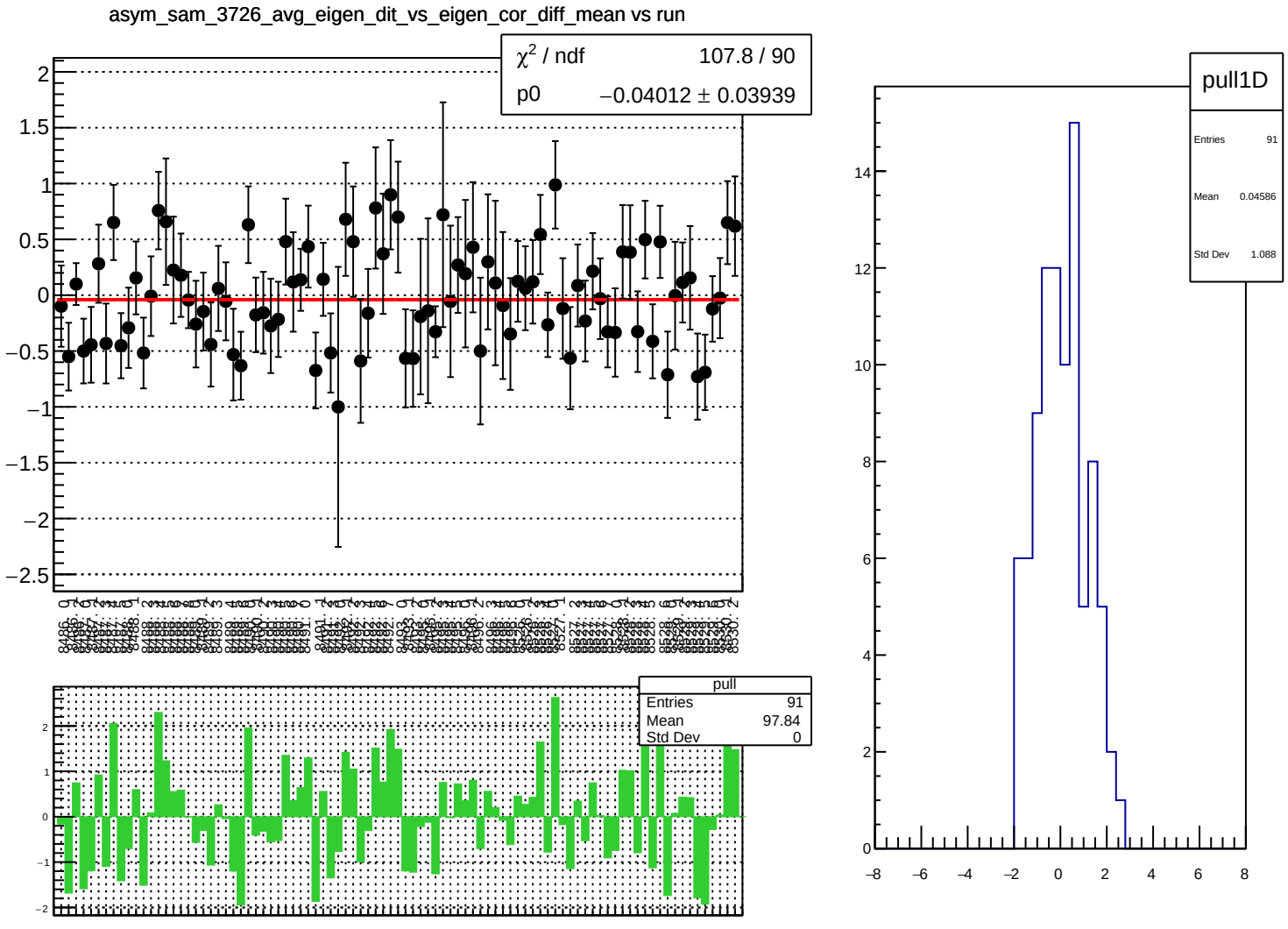

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.91 / 90
p0 1.395e−06 ± 1.294e−06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 91
Mean 116.7
Std Dev 135.6
2
1
0
−1
−2

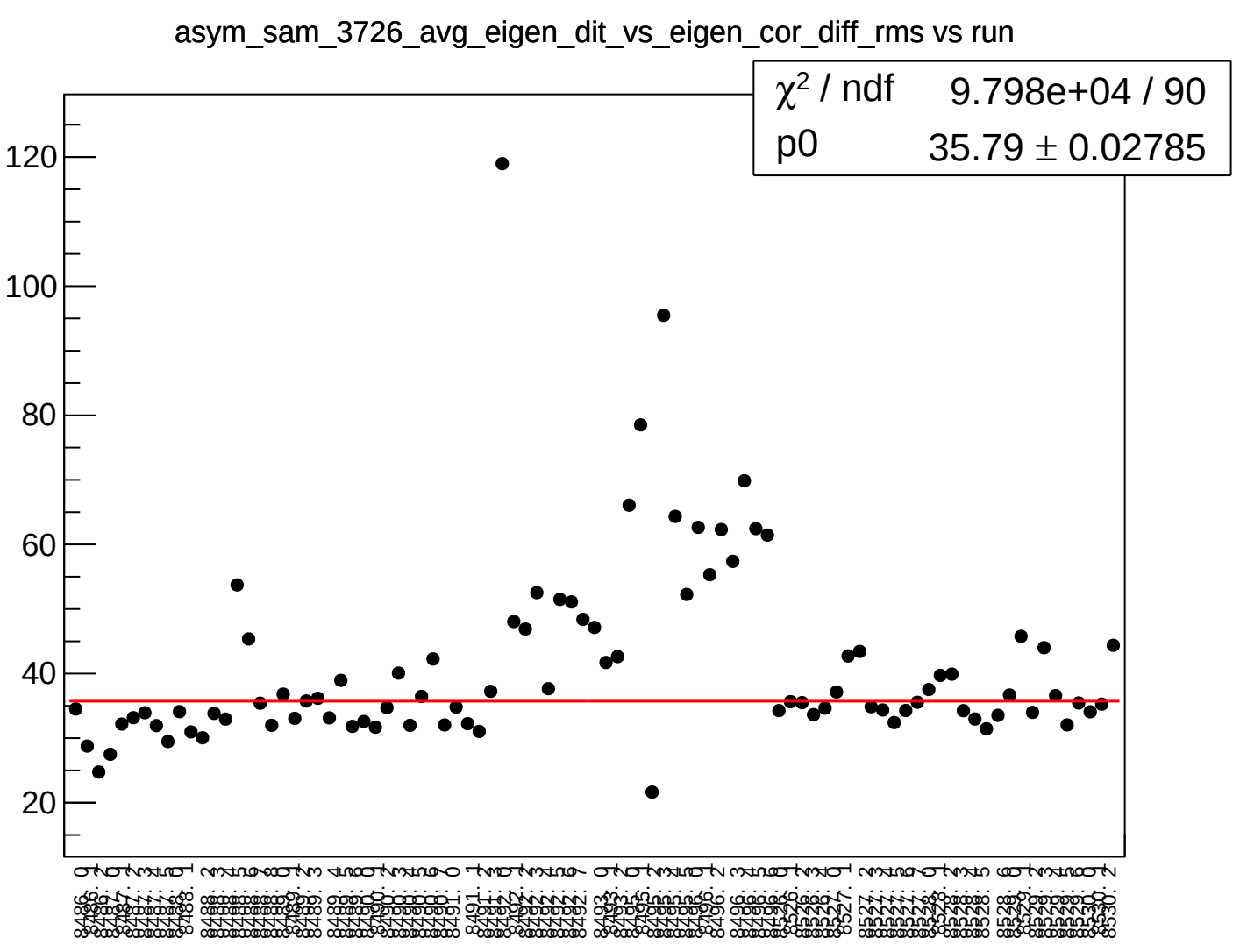

pull1D
Entries 91
Mean −0.003083
Std Dev 0.994
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

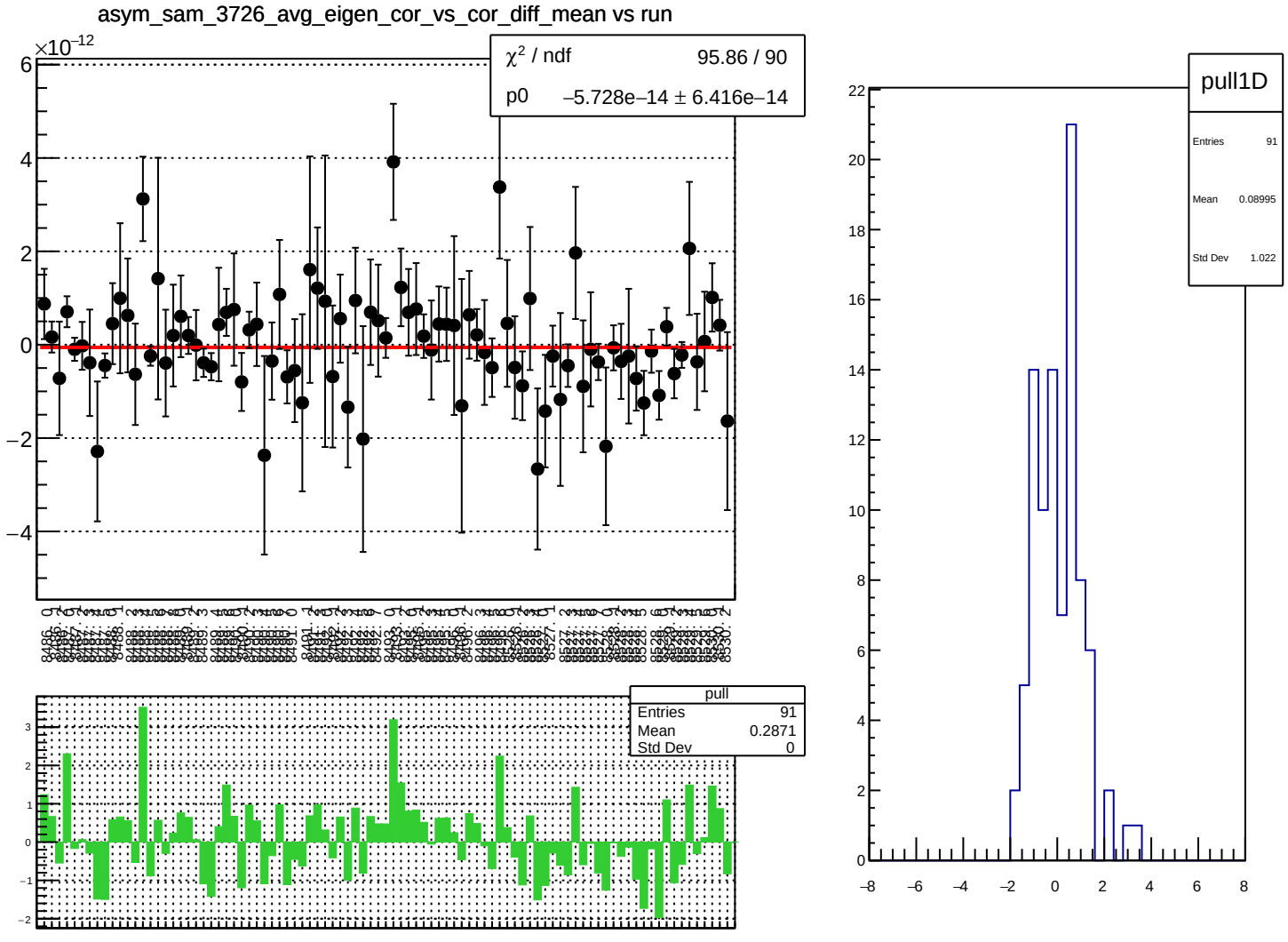

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.324e+04 / 90
p0 0.001178 ± 9.151e−07
0.002
0.0018
0.0016
0.0014
0.0012
0.001

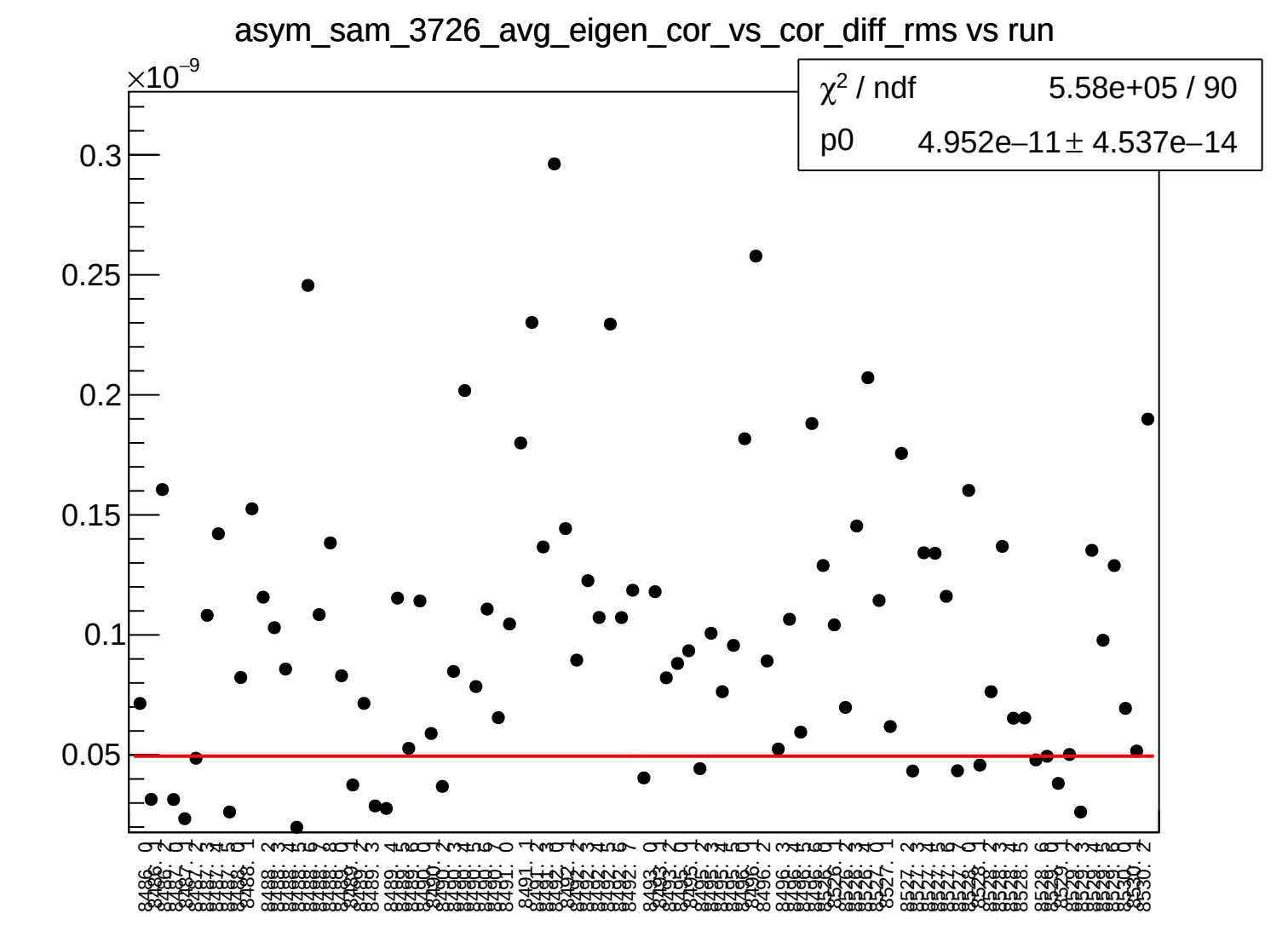

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 107.8 / 90
p0 −0.04012 ± 0.03939
pull
Entries 91
Mean 97.84
Std Dev 0
pull1D
Entries 91
Mean 0.04586
Std Dev 1.088

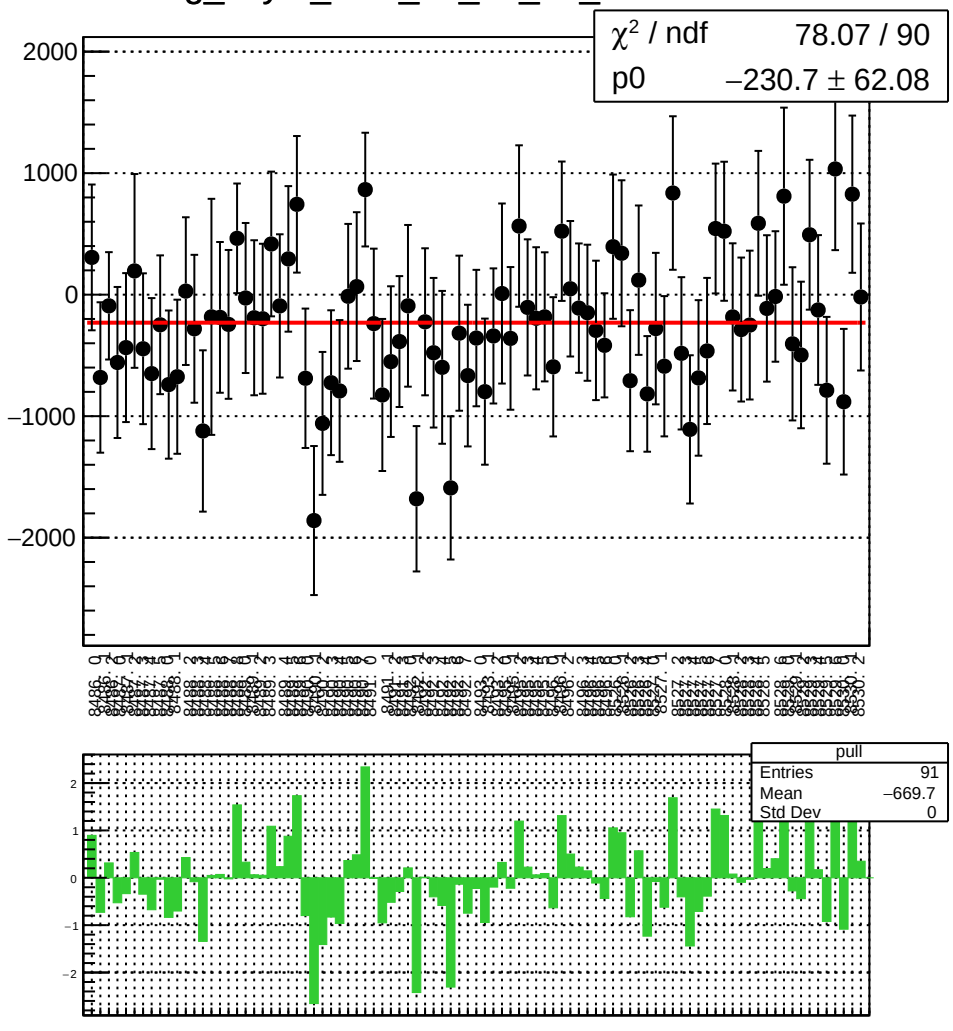

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.798e+04 / 90
p0 35.79 ± 0.02785
120
100
80
60
40
20

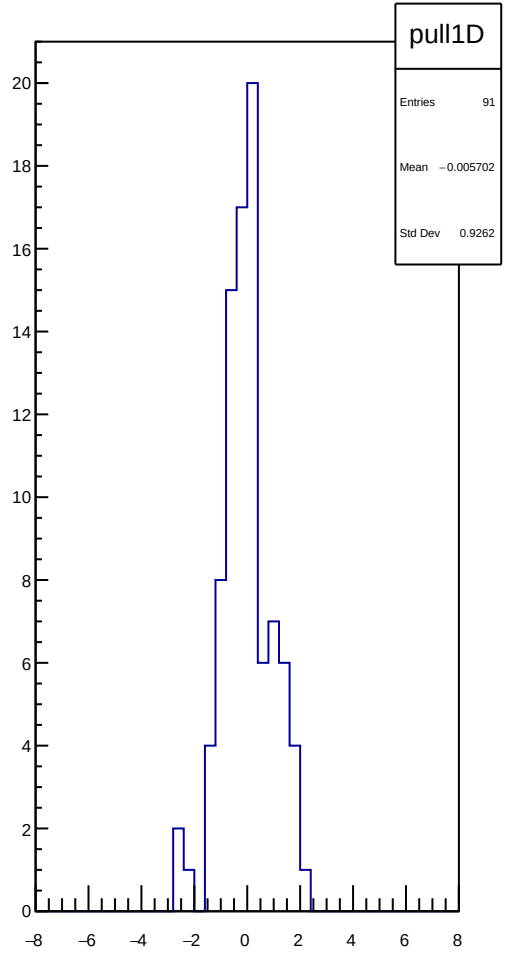

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.8 / 90
p0 −0.04012 ± 0.03939
pull
Entries 91
Mean 97.84
Std Dev 0
pull1D
Entries 91
Mean 0.04586
Std Dev 1.088

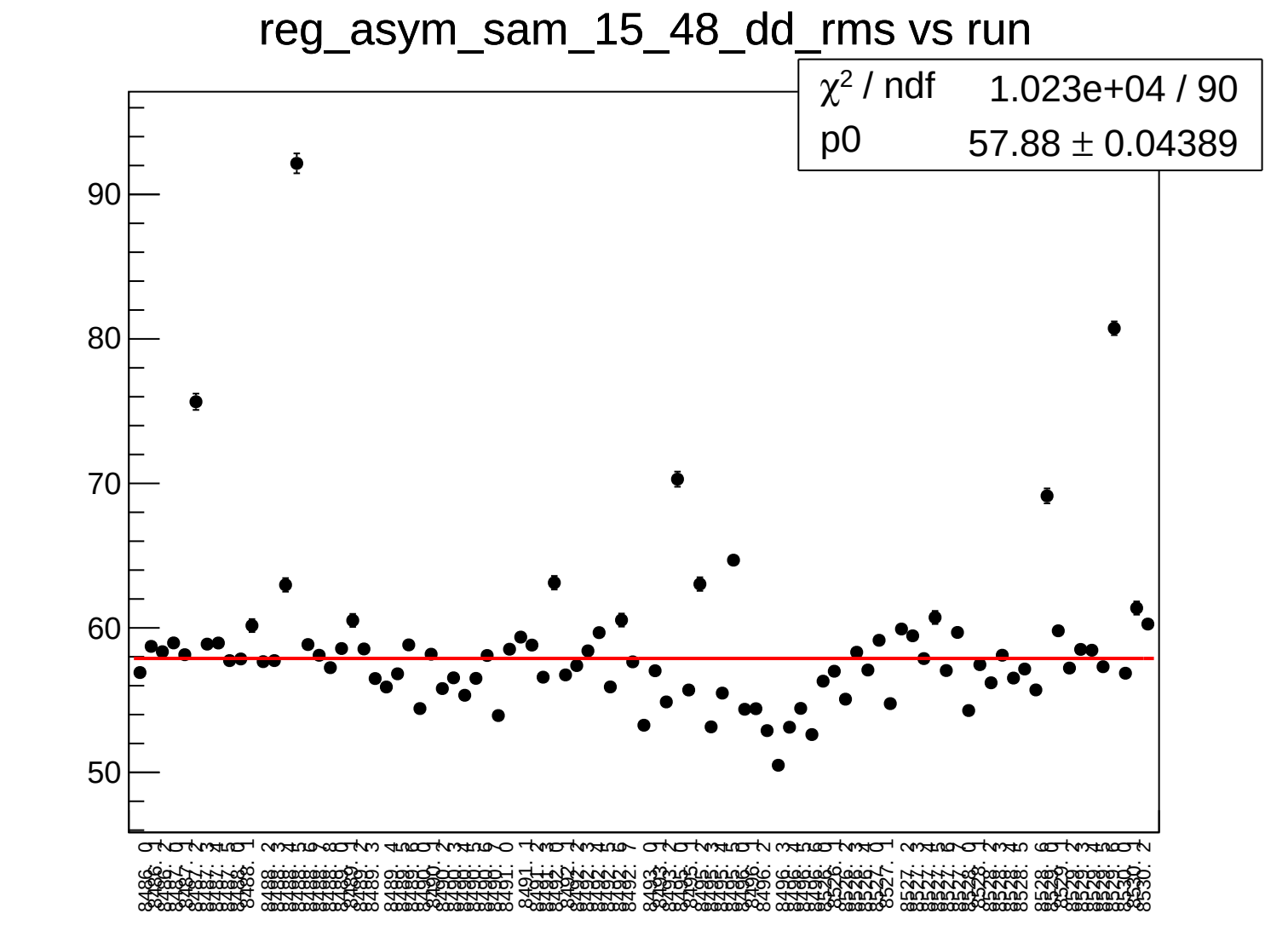

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.798e+04 / 90
p0 35.79 ± 0.02785
120
100
80
60
40
20

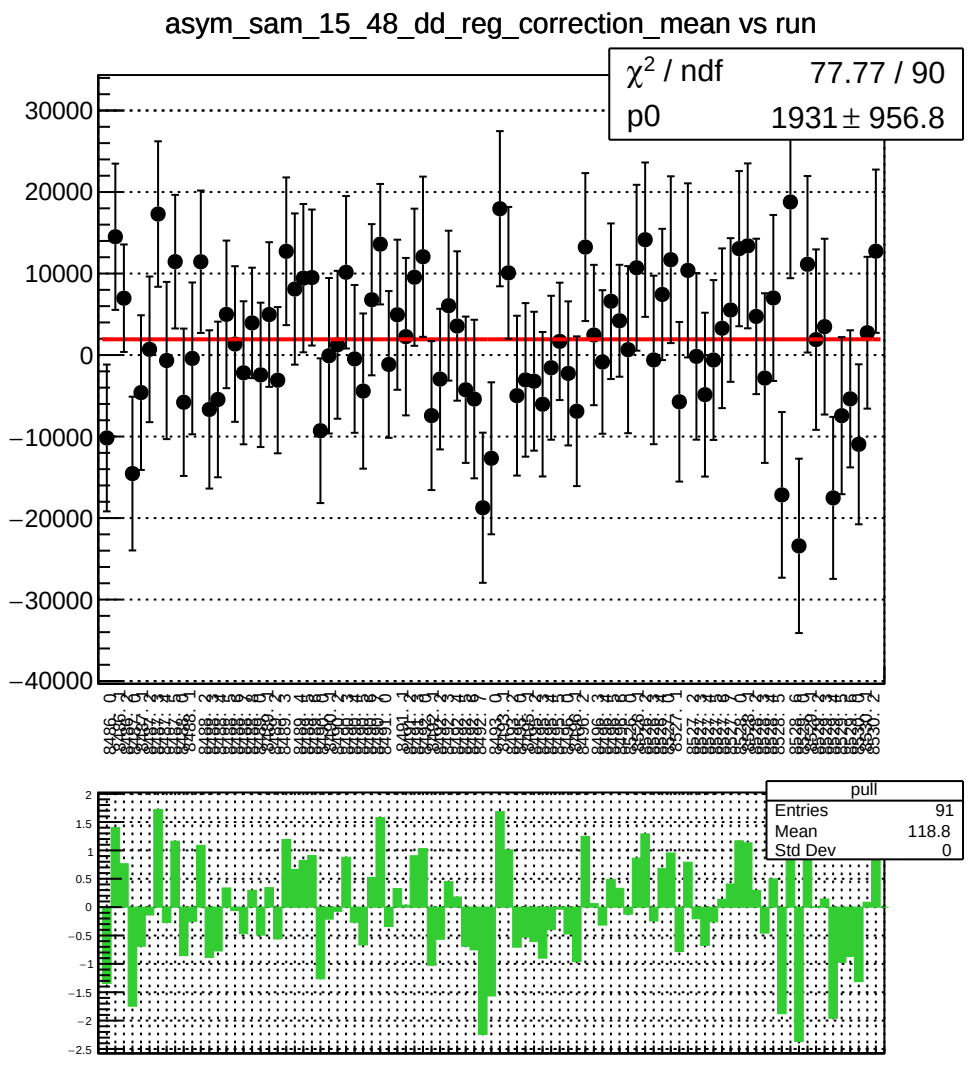

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.86 / 90
p0 −5.728e−14 ± 6.416e−14
pull
Entries 91
Mean 0.2871
Std Dev 0
pull1D
Entries 91
Mean 0.08995
Std Dev 1.022

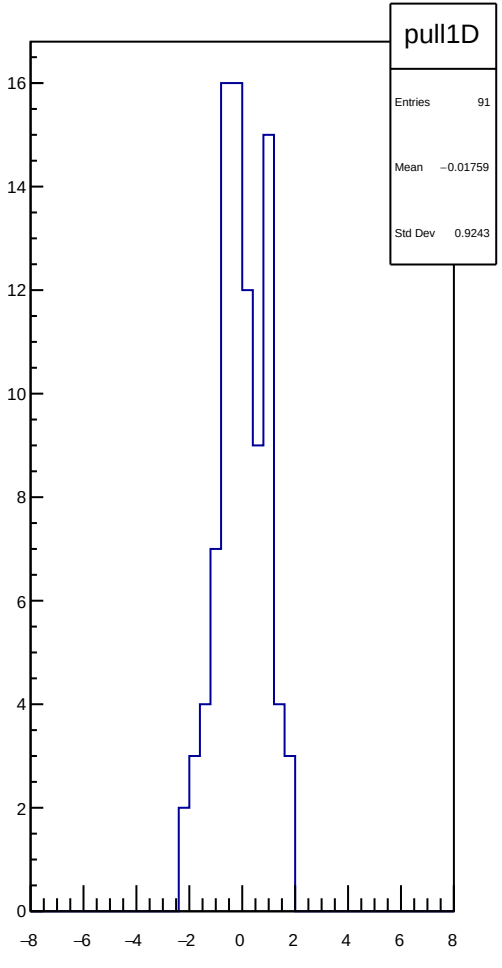

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.58e+05 / 90
p0 4.952e−11 ± 4.537e−14
0.3
0.25
0.2
0.15
0.1
0.05

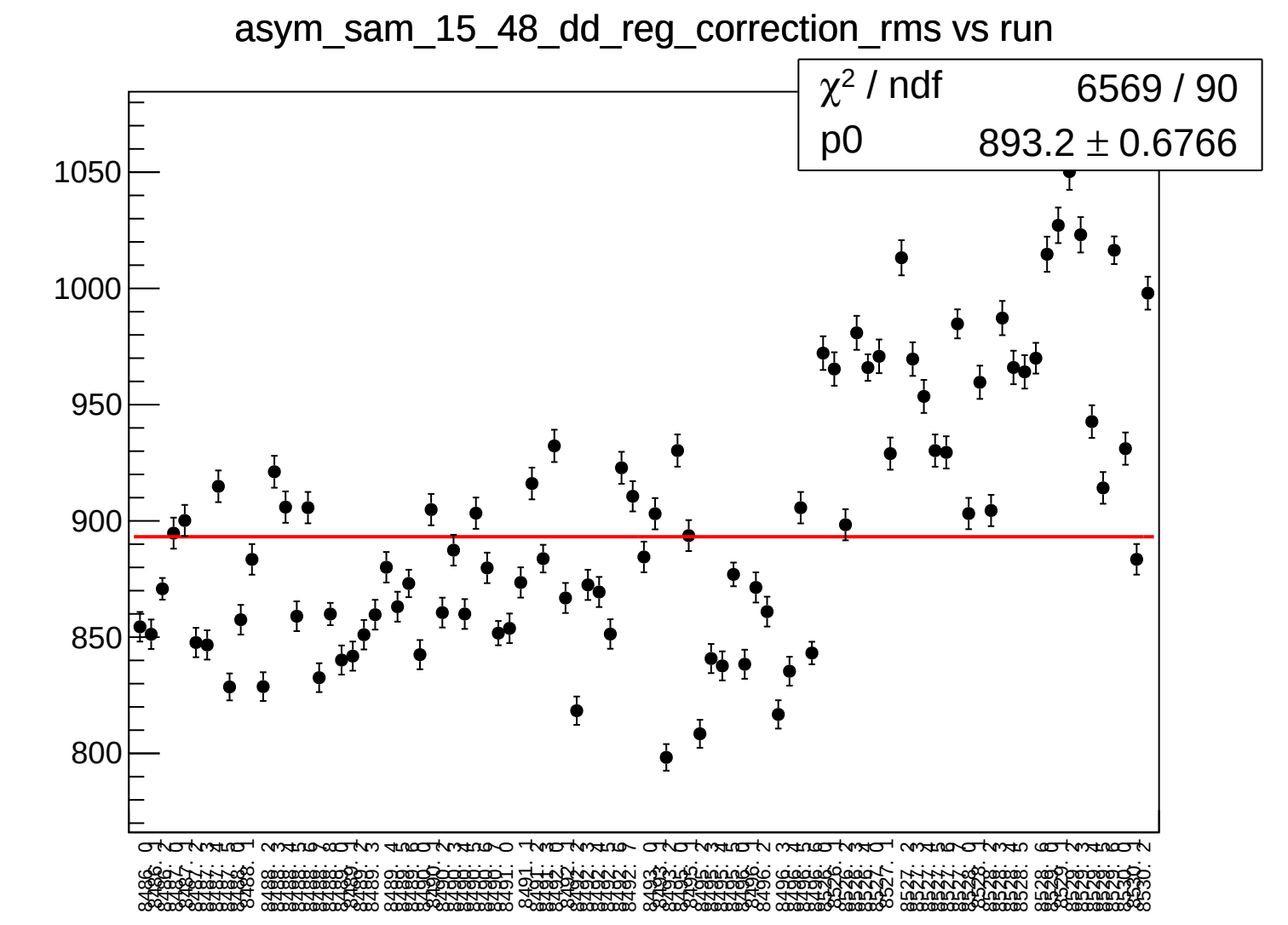

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 78.07 / 90
p0 −230.7 ± 62.08
2000
1000
0
−1000
−2000
pull
Entries 91
Mean −669.7
Std Dev 0
2
1
0
−1
−2

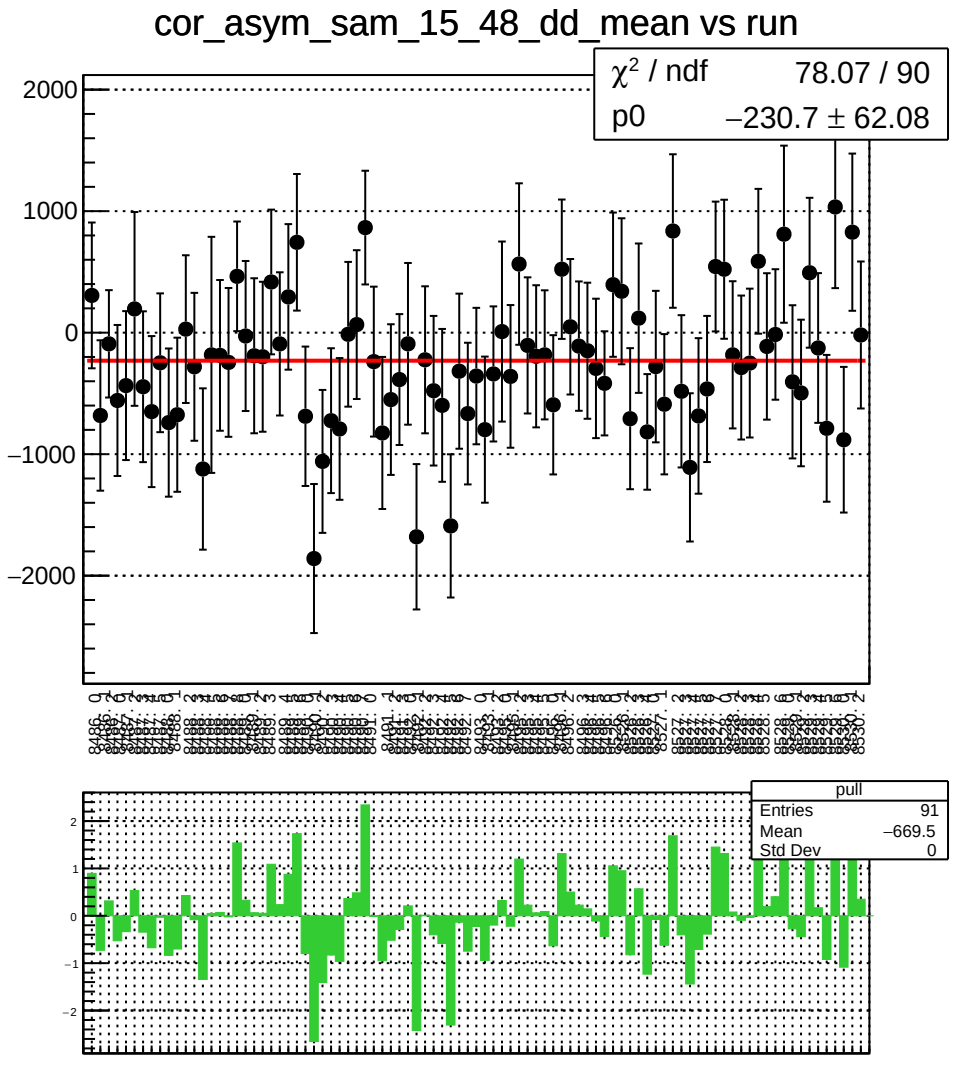

pull1D
Entries 91
Mean −0.005702
Std Dev 0.9262
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

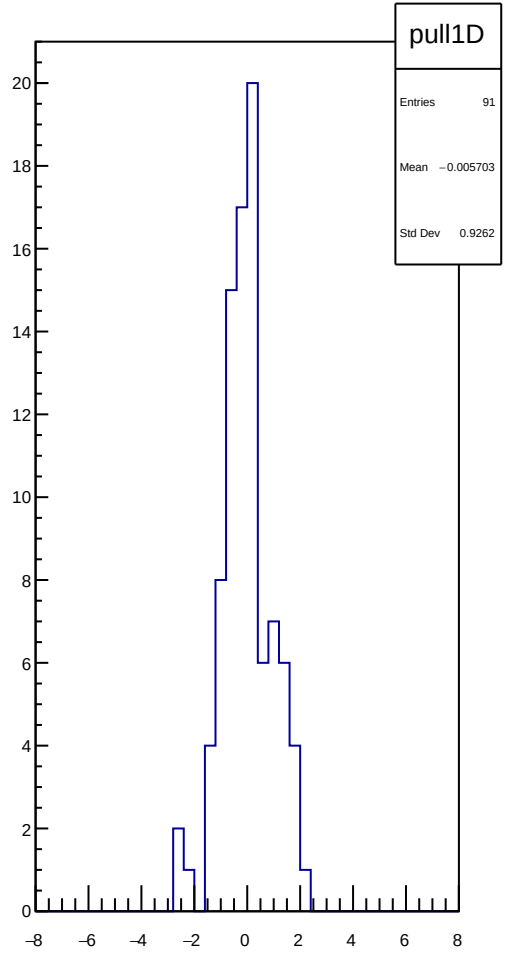

reg_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.023e+04 / 90
p0 57.88 ± 0.04389
90
80
70
60
50

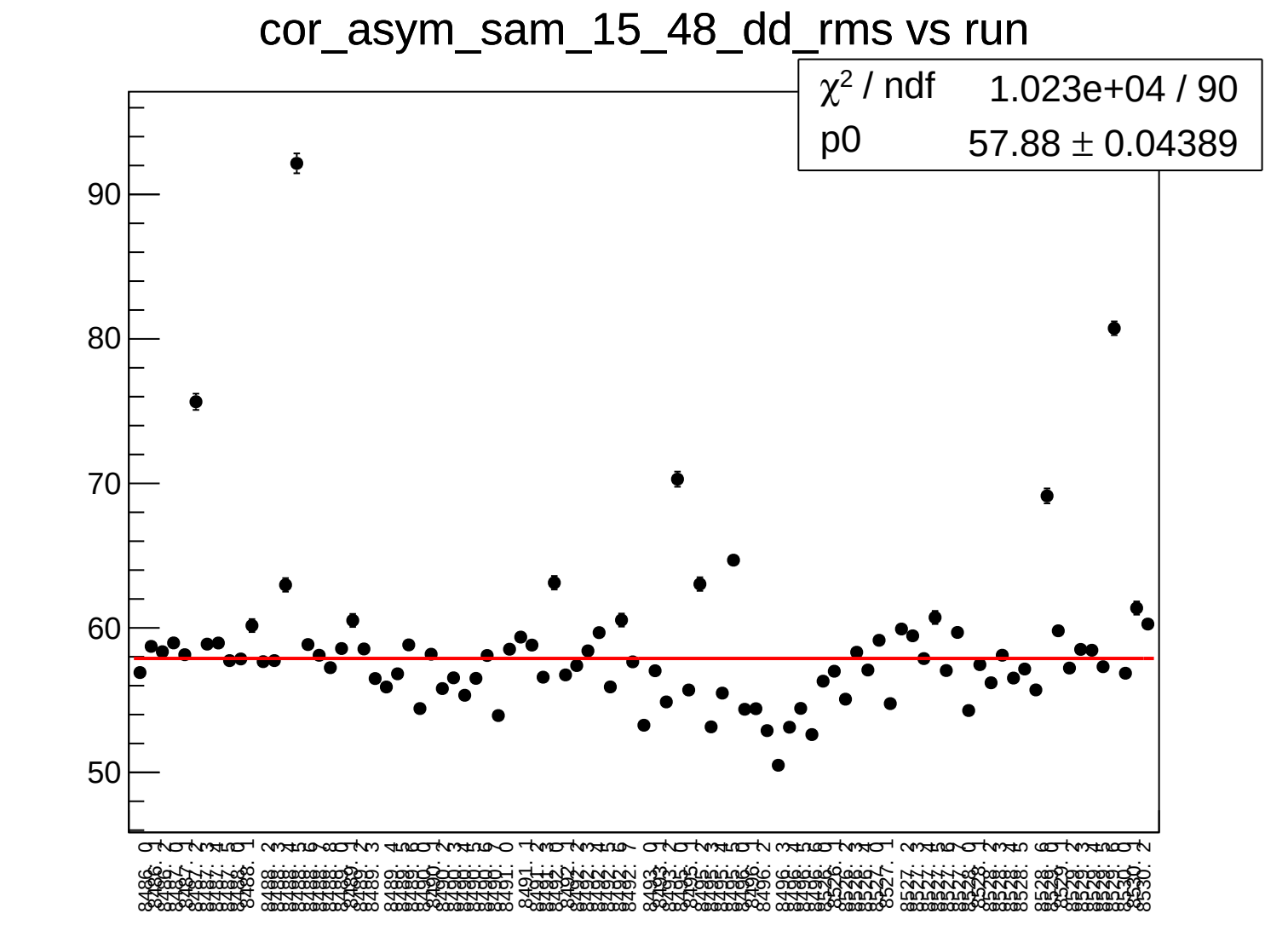

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 77.77 / 90
p0 1931 ± 956.8
pull
Entries 91
Mean 118.8
Std Dev 0

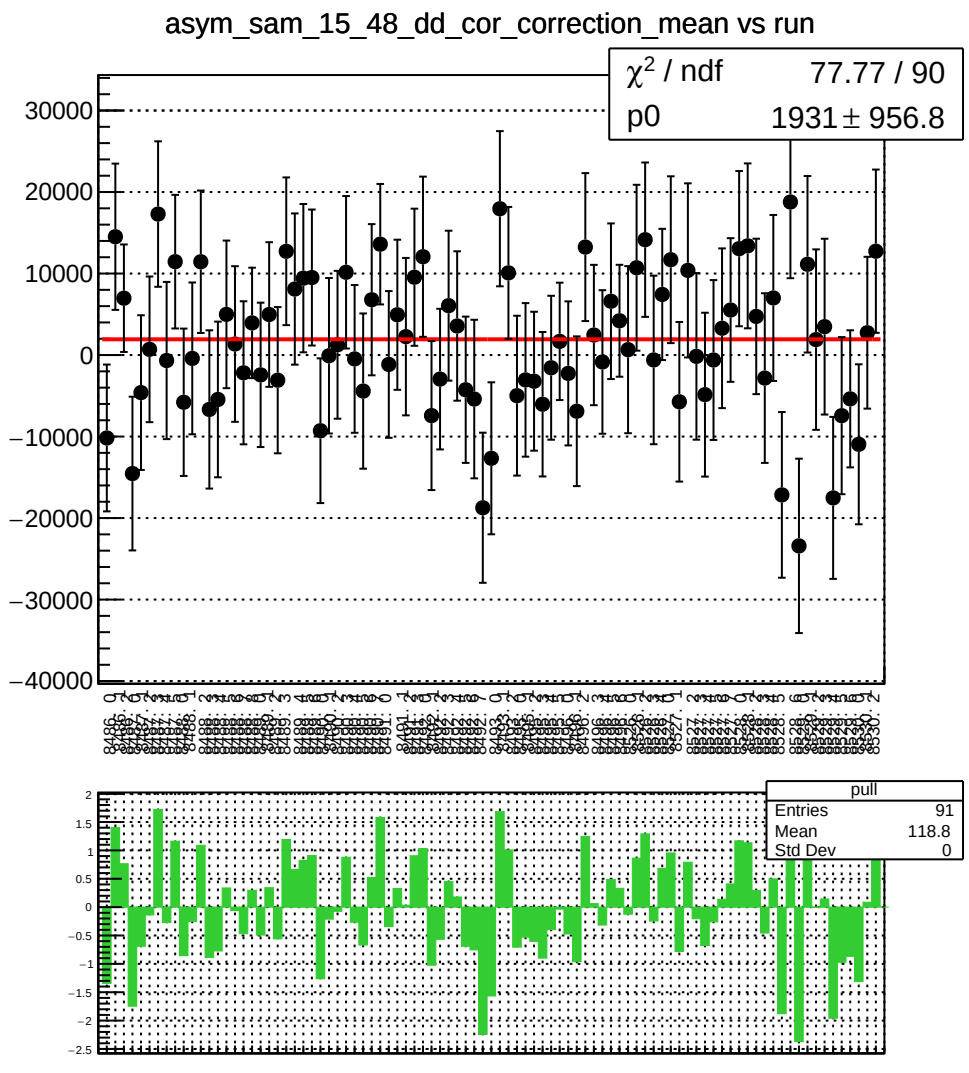

pull1D
Entries 91
Mean −0.01759
Std Dev 0.9243

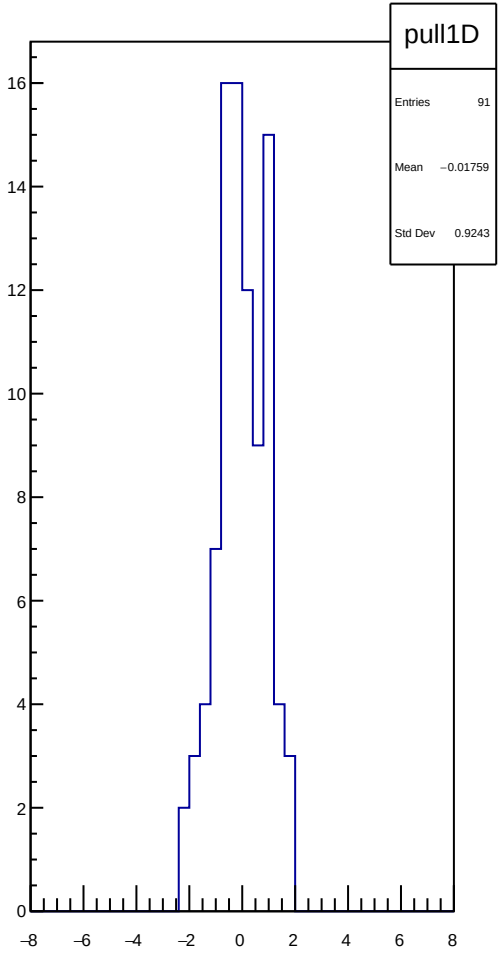

asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 6569 / 90
p0 893.2 ± 0.6766
1050
1000
950
900
850
800

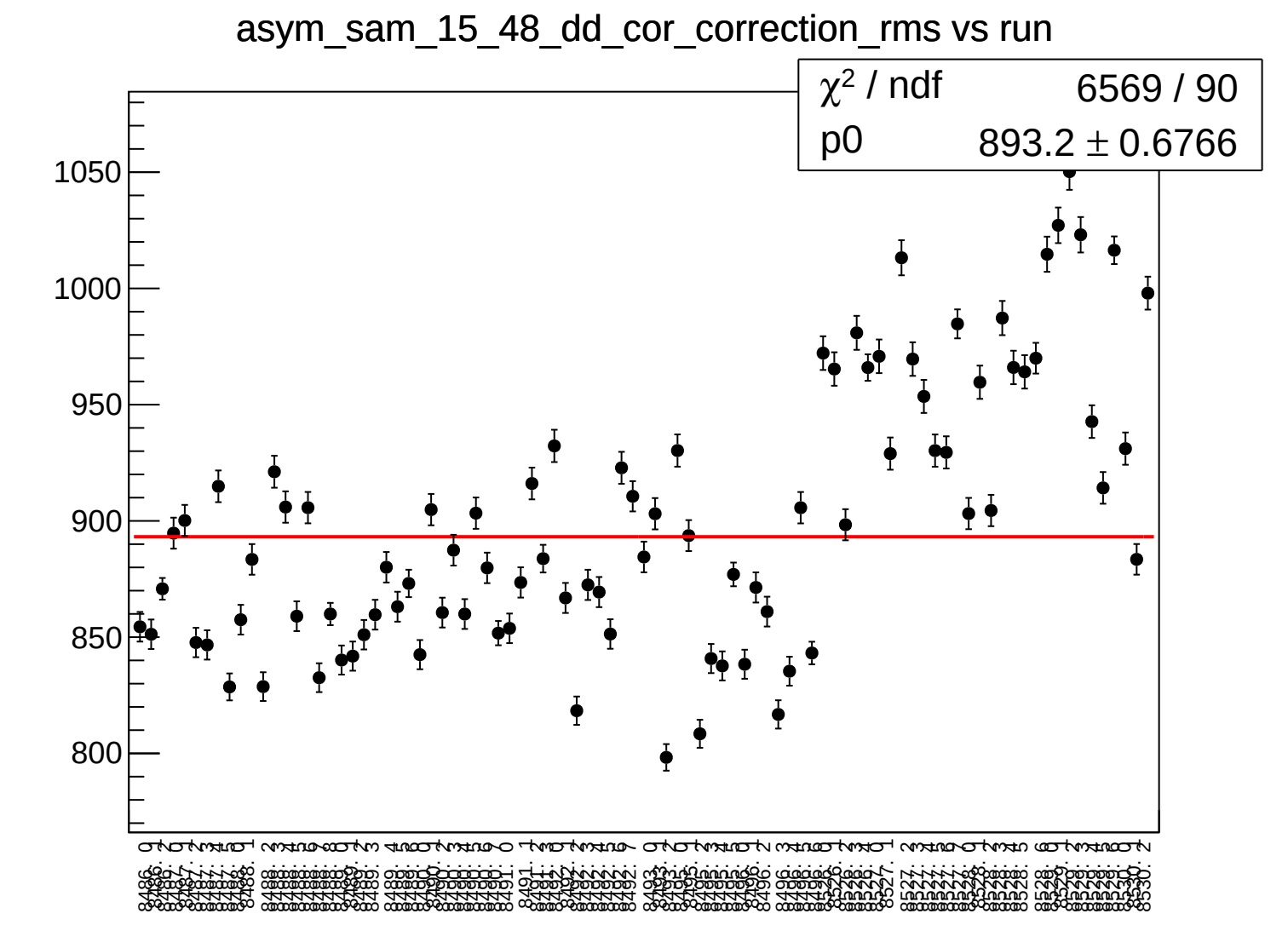

cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 78.07 / 90
p0 −230.7 ± 62.08
2000
1000
0
−1000
−2000
pull
Entries 91
Mean −669.5
Std Dev 0
2
1
0
−1
−2

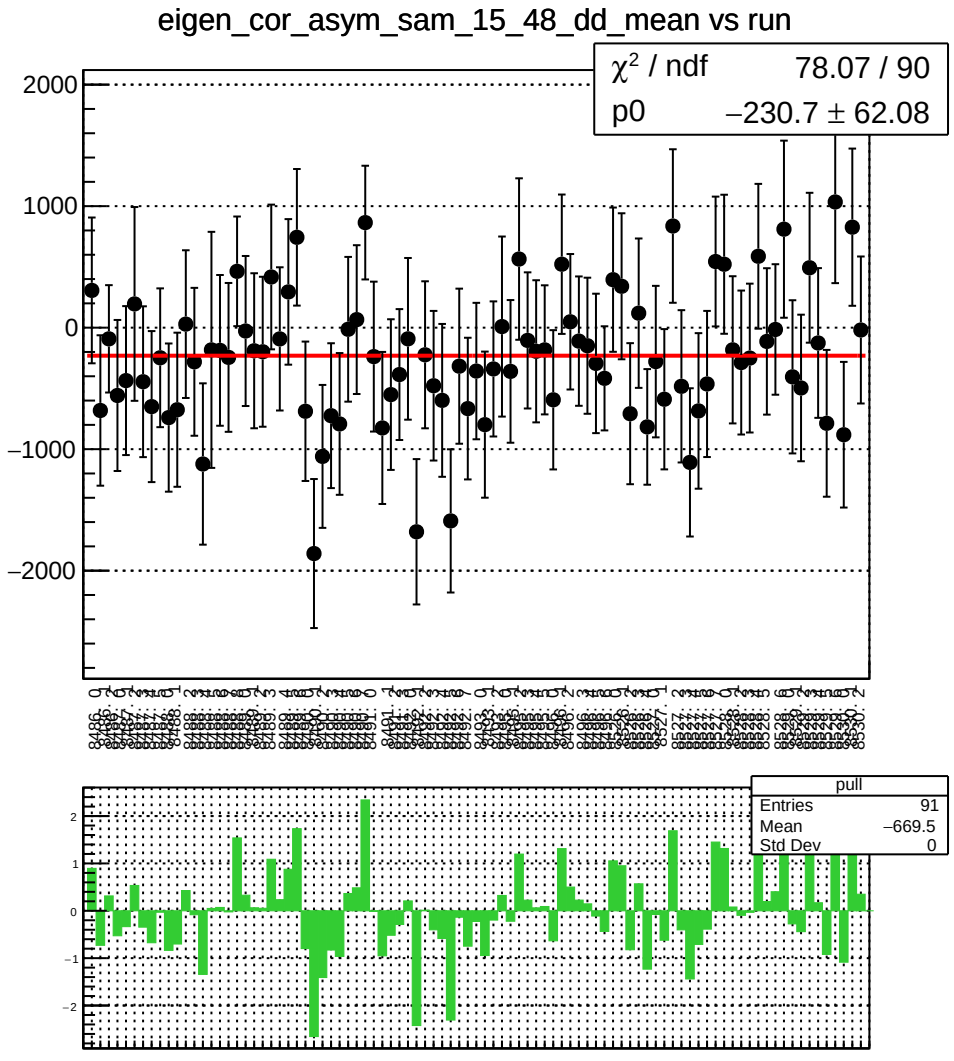

pull1D
Entries 91
Mean −0.005703
Std Dev 0.9262
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

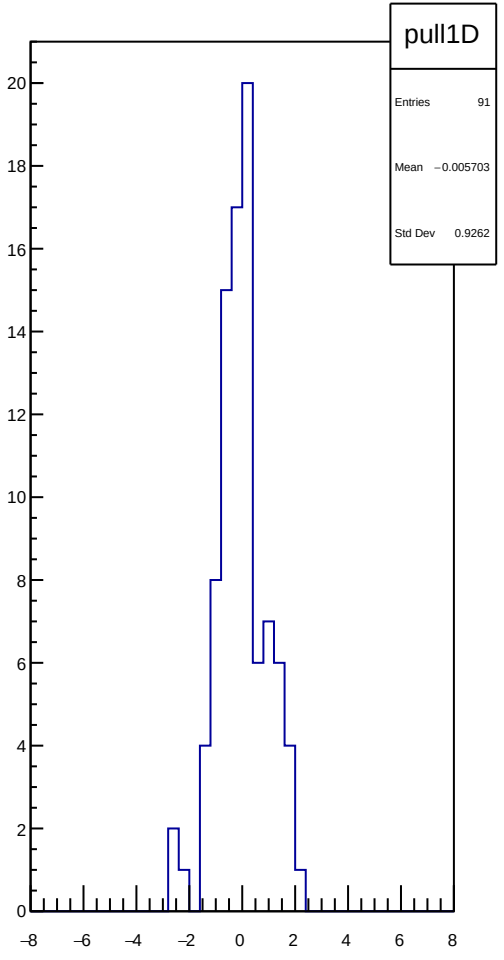

cor_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 1.023e+04 / 90
p0 57.88 ± 0.04389
90
80
70
60
50

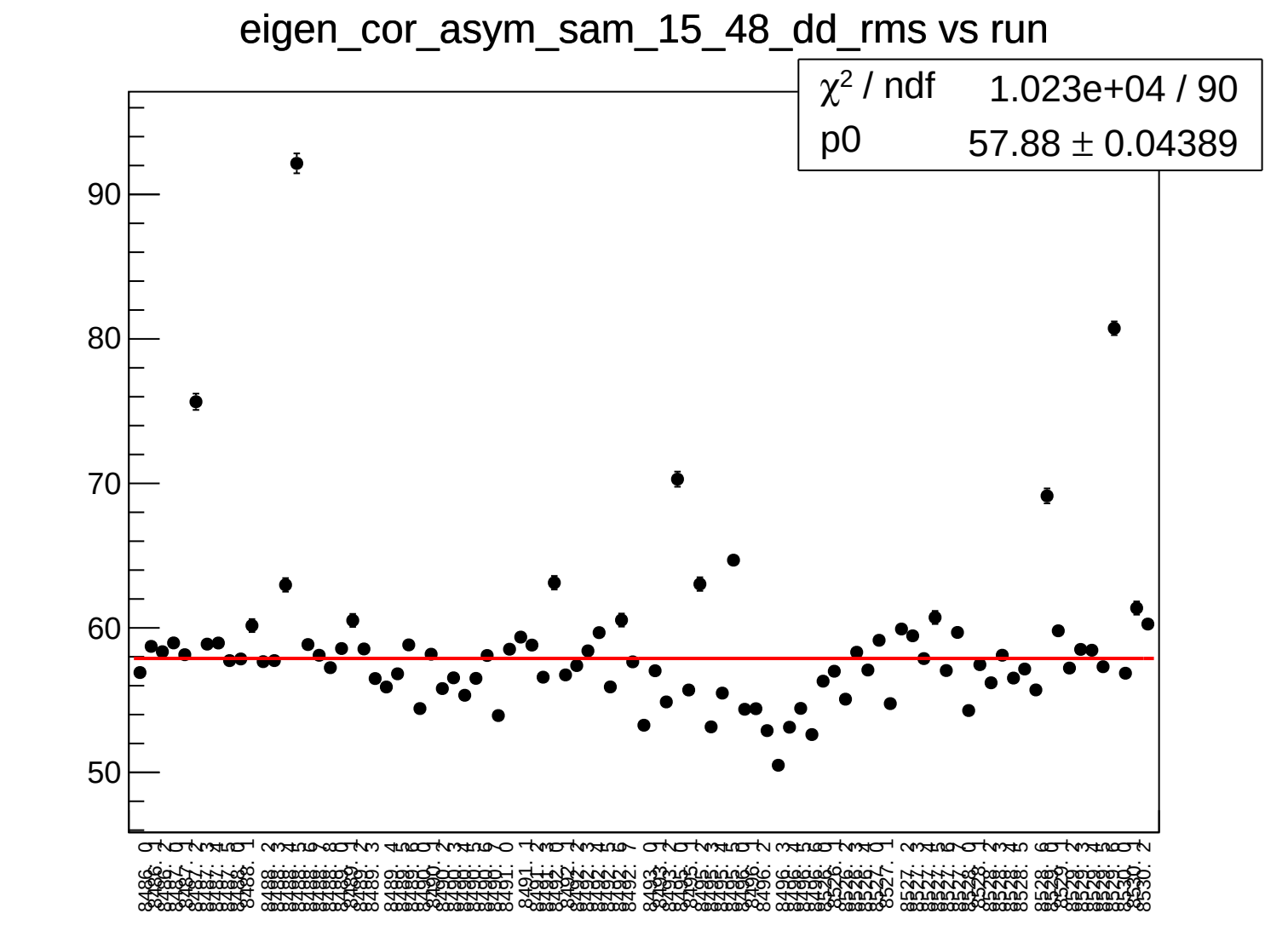

asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 77.77 / 90
p0 1931 ± 956.8
pull
Entries 91
Mean 118.8
Std Dev 0

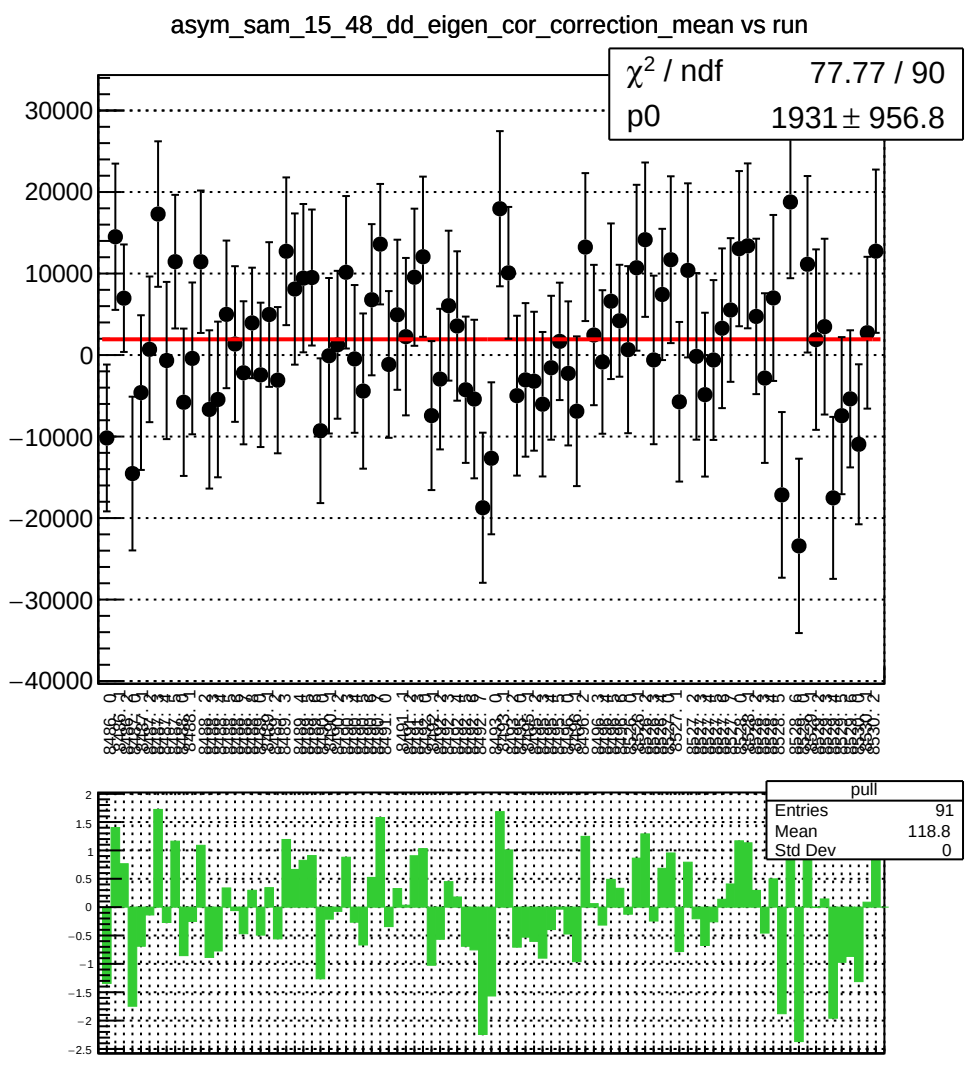

pull1D
Entries 91
Mean −0.01759
Std Dev 0.9243

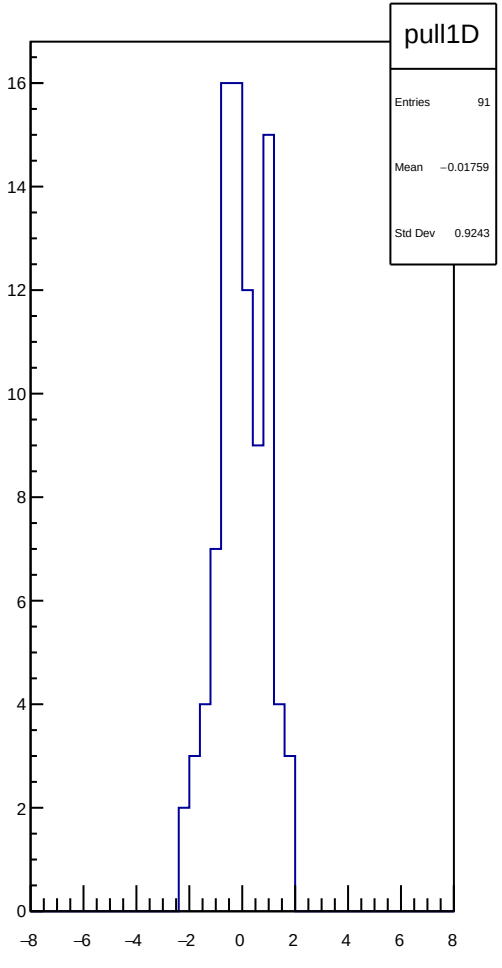

asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 6569 / 90
p0 893.2 ± 0.6766
1050
1000
950
900
850
800

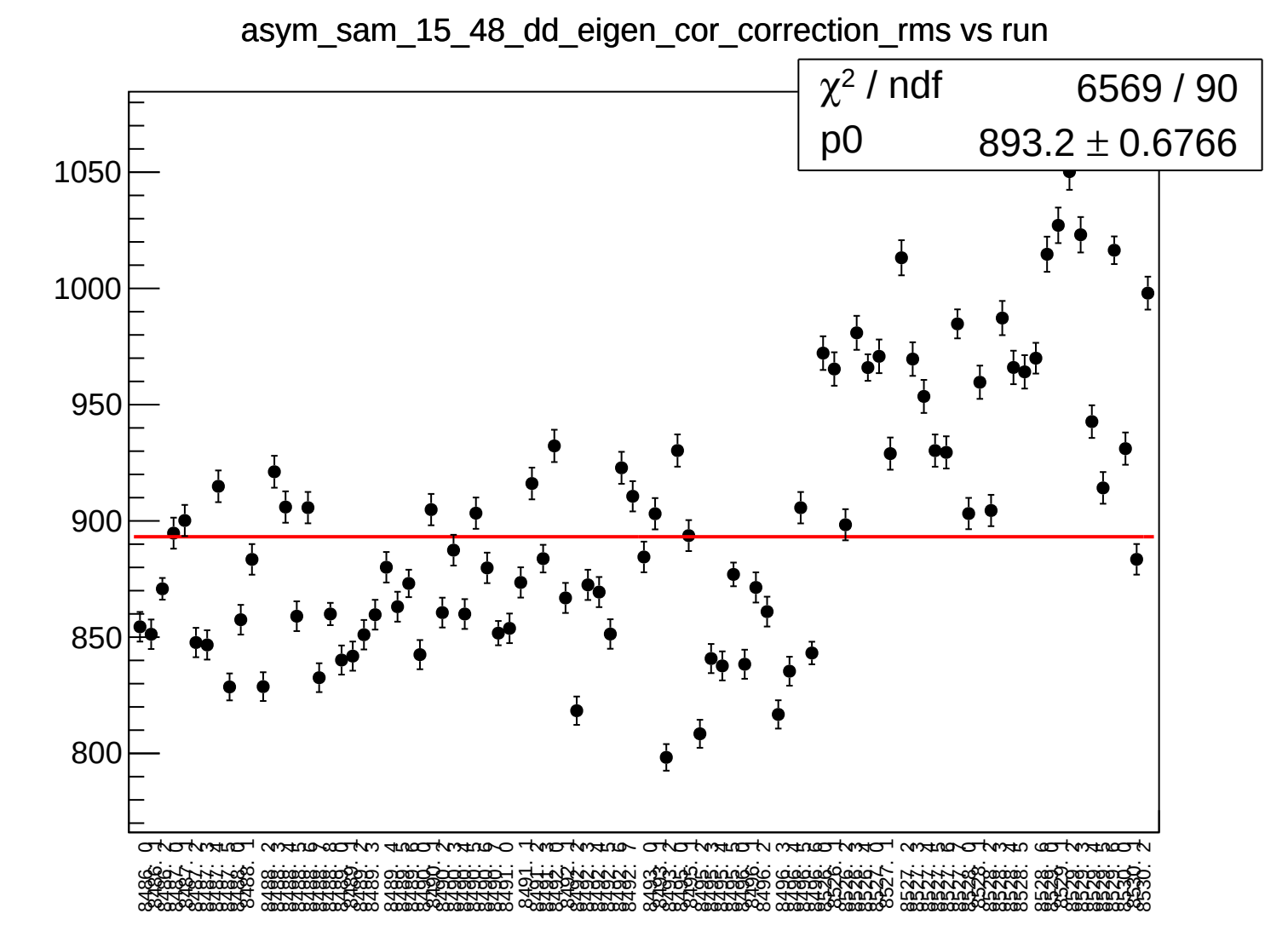

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 78.07 / 90
p0 −230.7 ± 62.08
2000
1000
0
−1000
−2000
pull
Entries 91
Mean −669.5
Std Dev 0
2
1
0
−1
−2

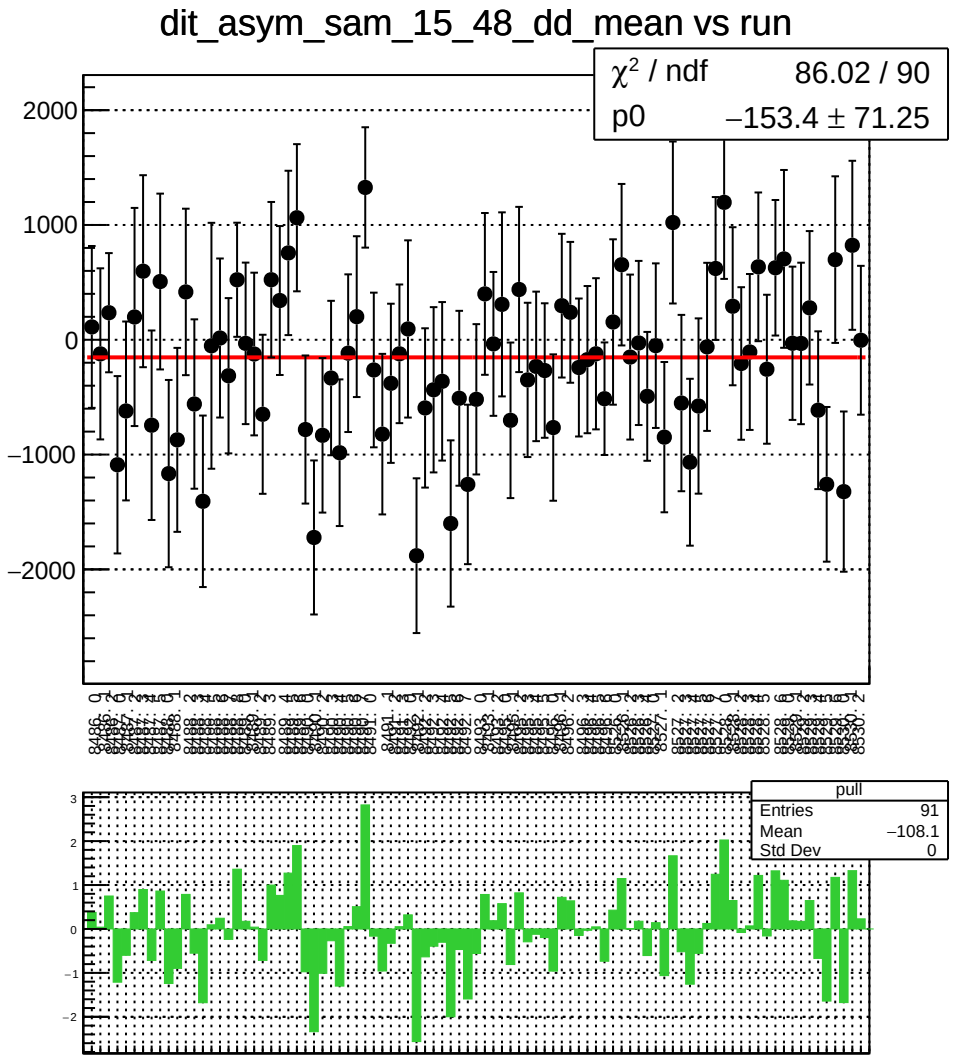

pull1D
Entries 91
Mean −0.005703
Std Dev 0.9262
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

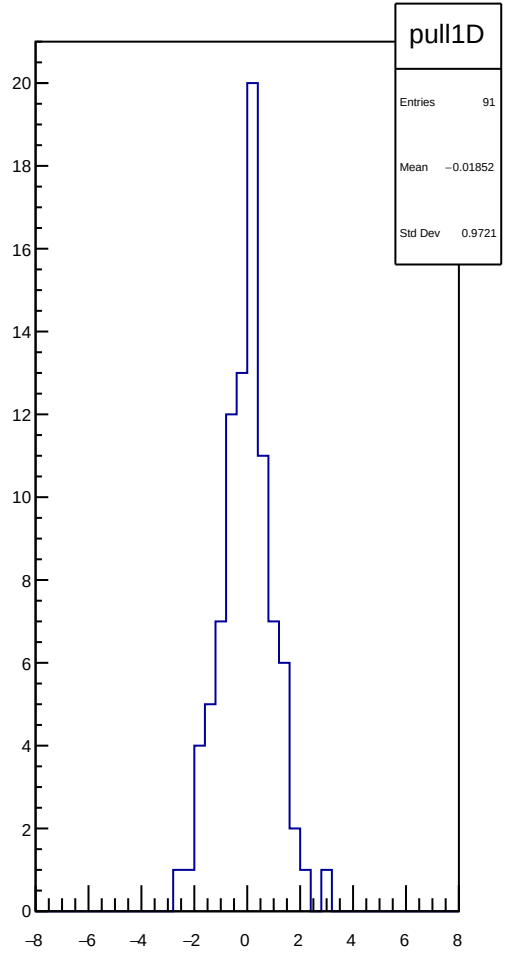

eigen_cor_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 1.023e+04 / 90
p0 57.88 ± 0.04389
90
80
70
60
50

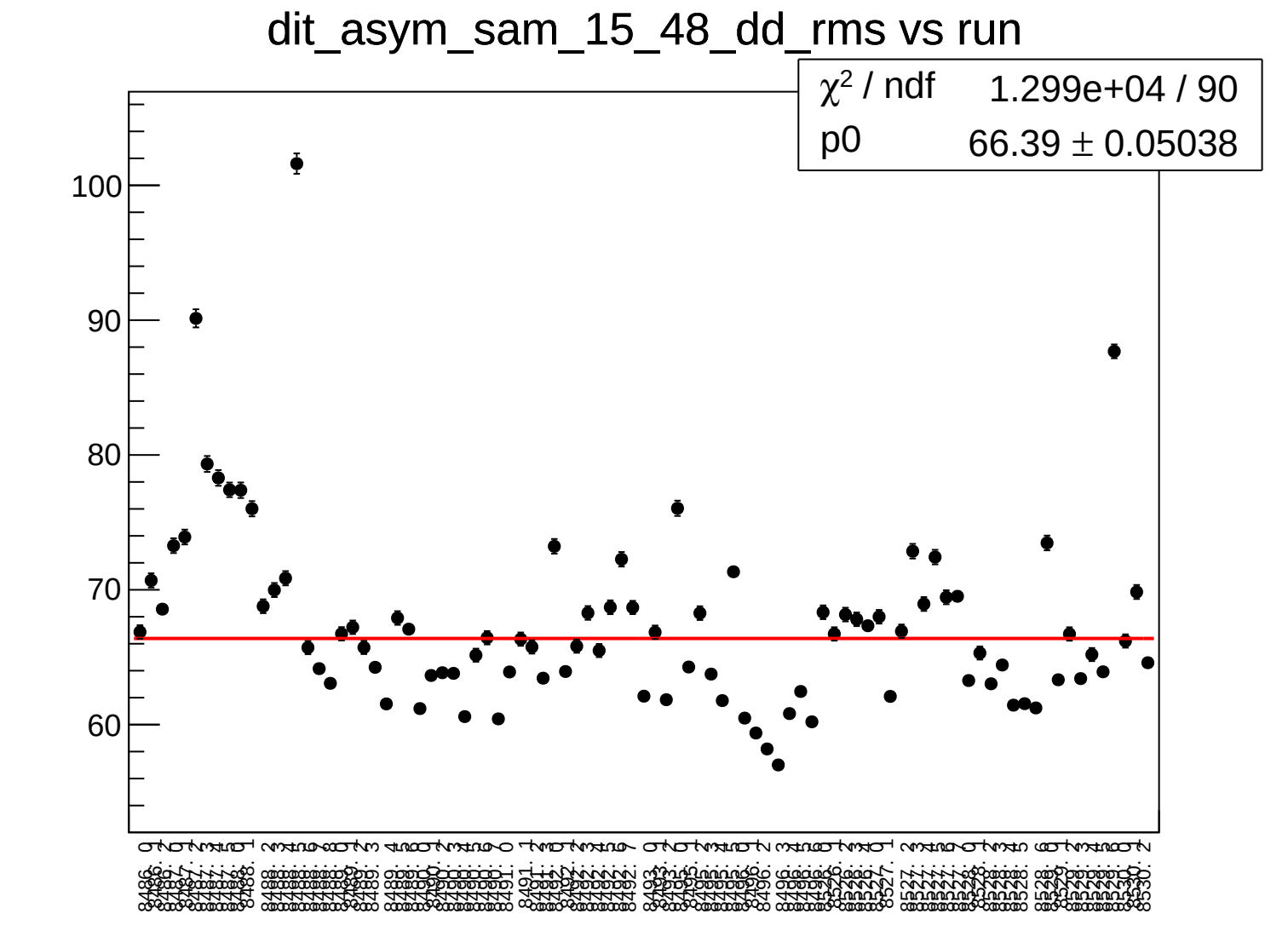

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 77.77 / 90
p0 1931 ± 956.8
pull
Entries 91
Mean 118.8
Std Dev 0

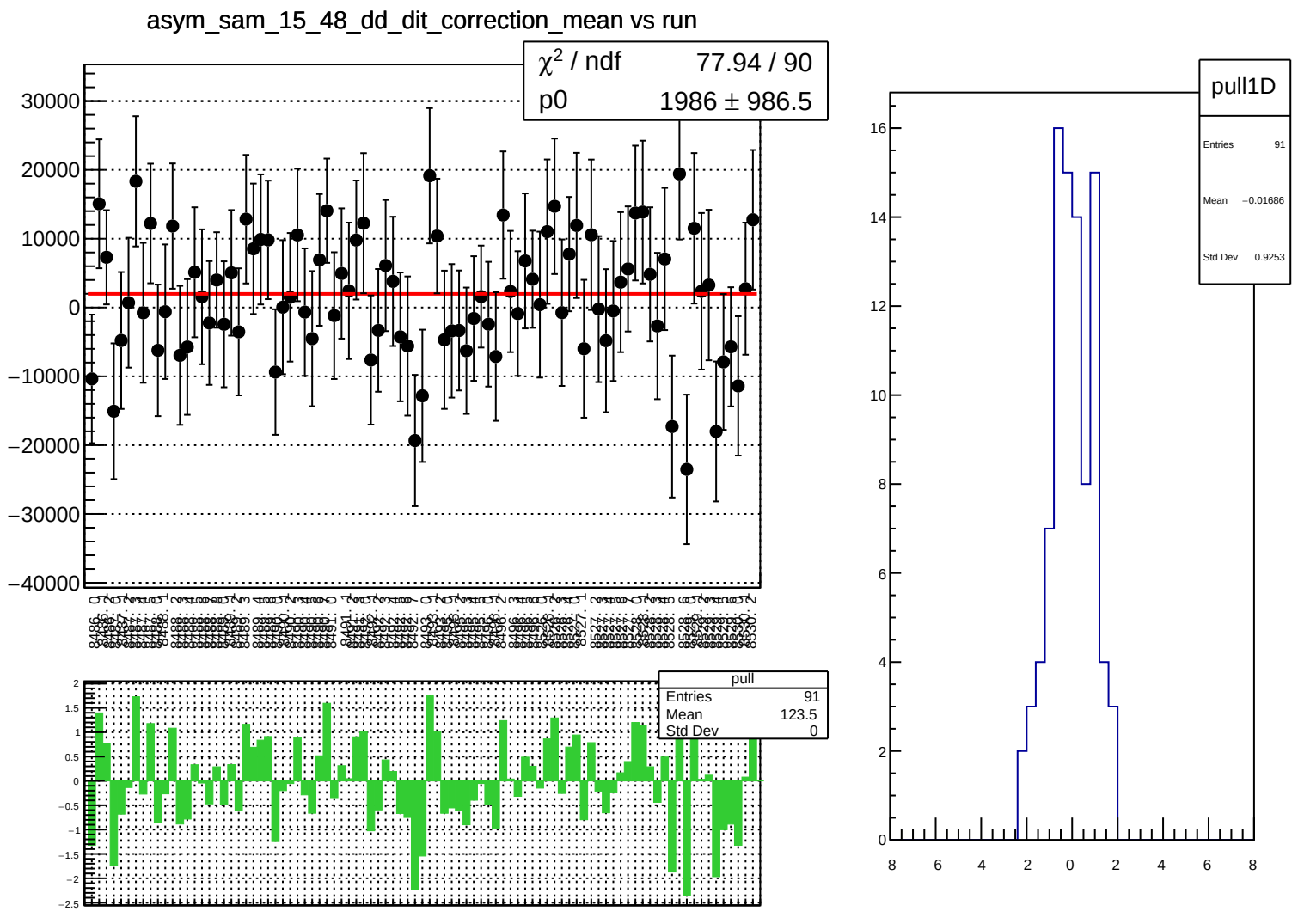

pull1D
Entries 91
Mean −0.01759
Std Dev 0.9243

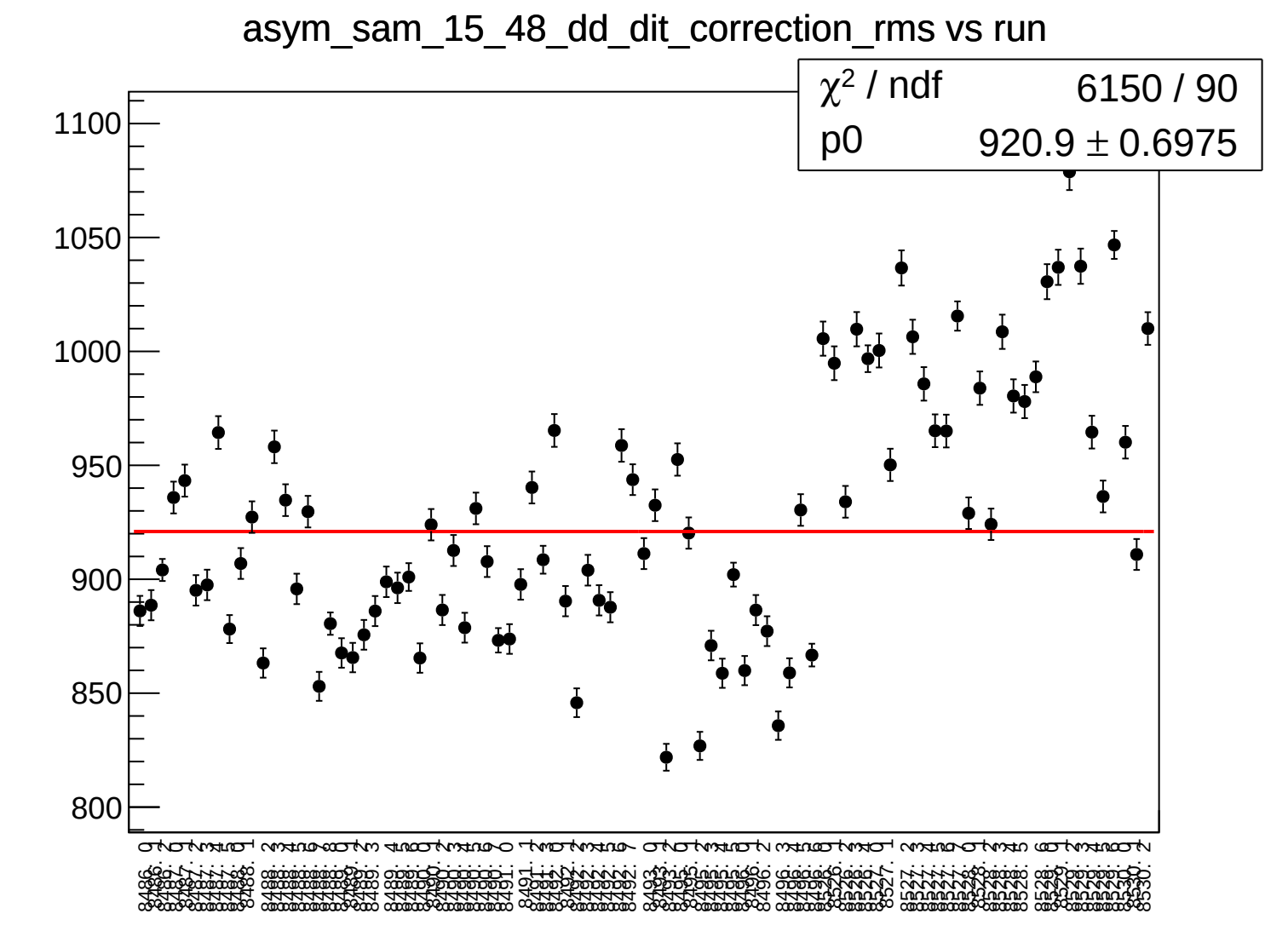

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 6569 / 90
p0 893.2 ± 0.6766
1050
1000
950
900
850
800

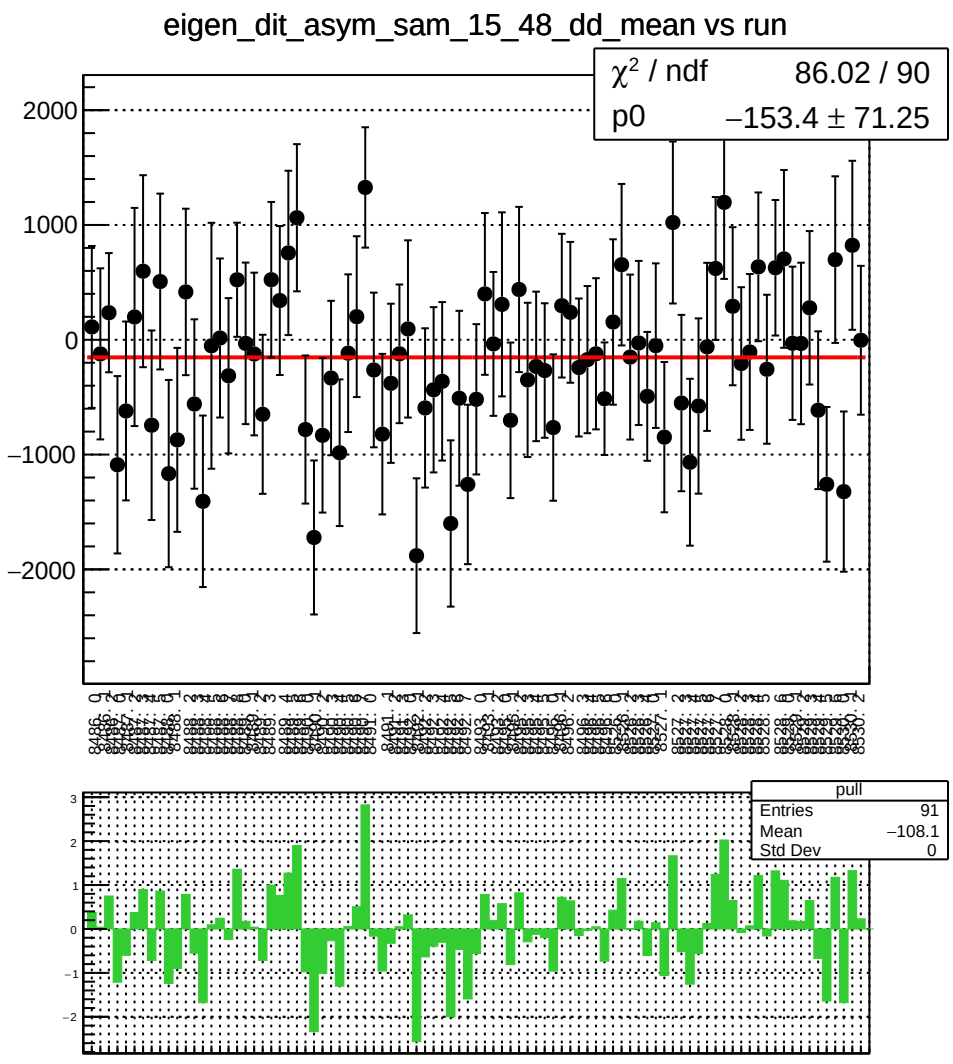

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 86.02 / 90
p0 −153.4 ± 71.25
2000
1000
0
−1000
−2000
pull
Entries 91
Mean −108.1
Std Dev 0
3
2
1
0
−1
−2

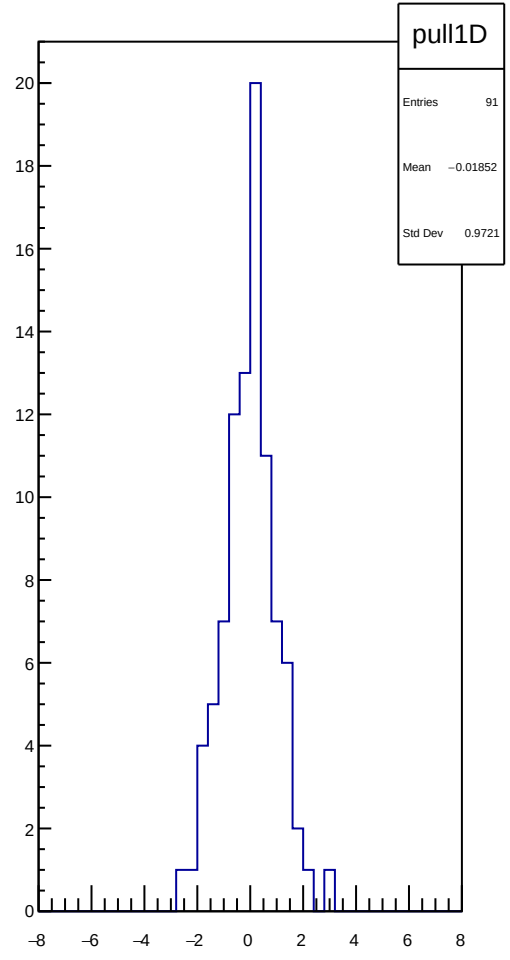

pull1D
Entries 91
Mean −0.01852
Std Dev 0.9721
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

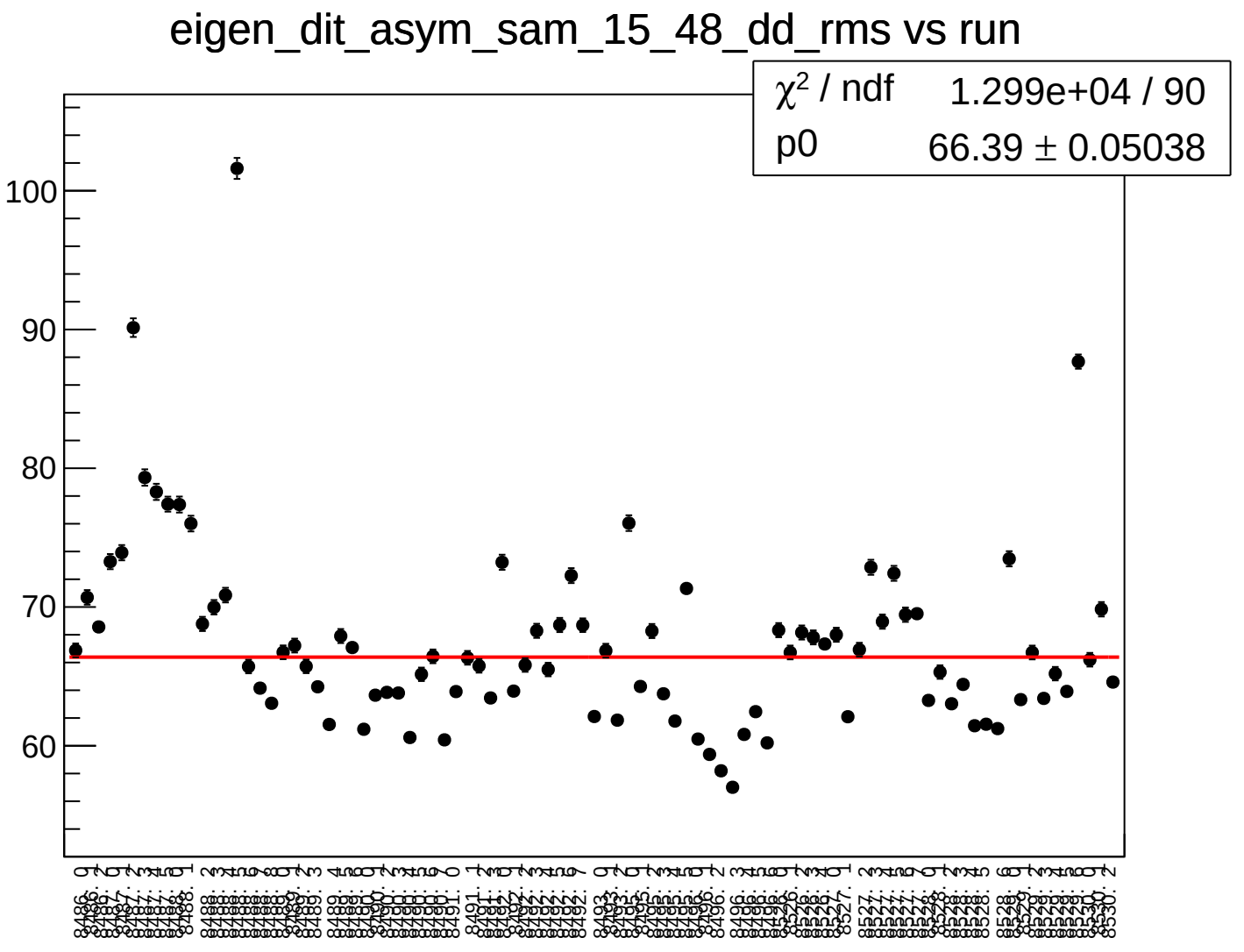

dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.299e+04 / 90
p0 66.39 ± 0.05038
100
90
80
70
60

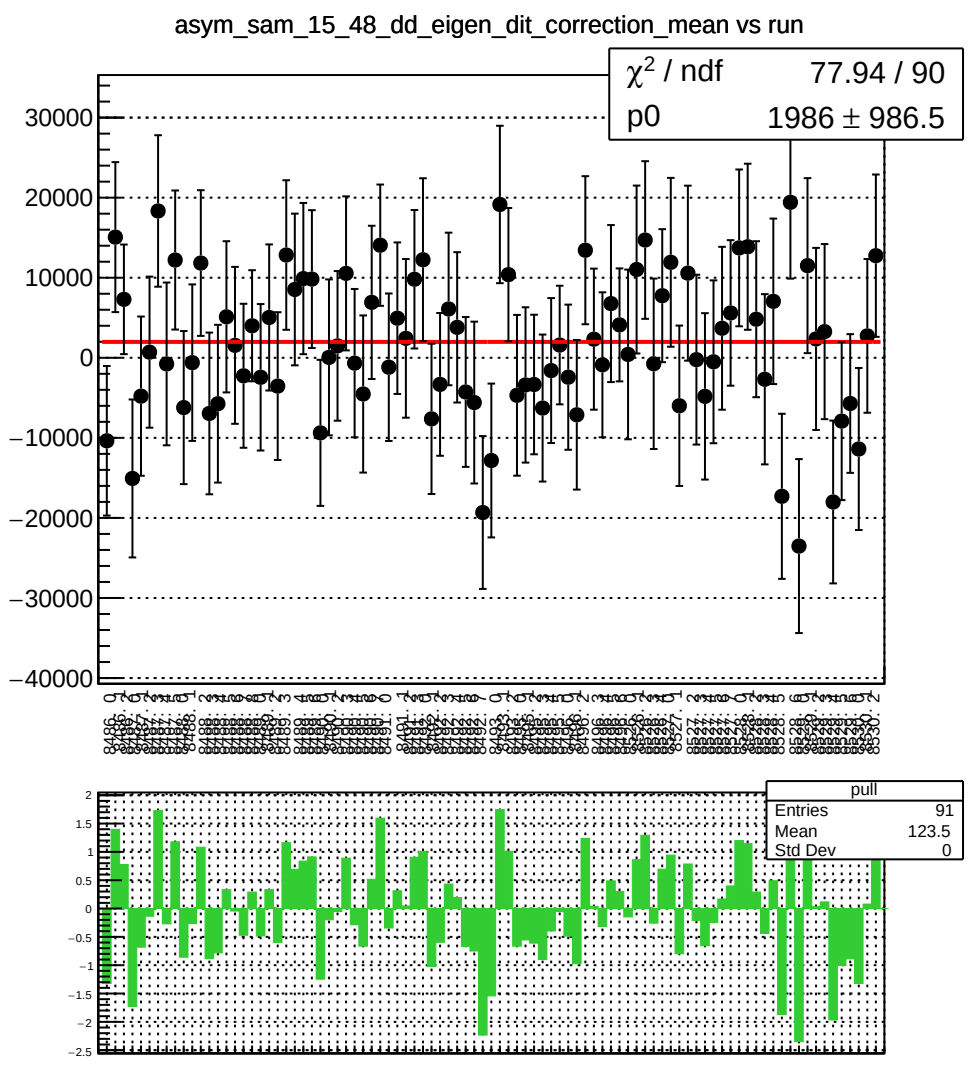

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 77.94 / 90
p0 1986 ± 986.5
pull
Entries 91
Mean 123.5
Std Dev 0
pull1D
Entries 91
Mean −0.01686
Std Dev 0.9253

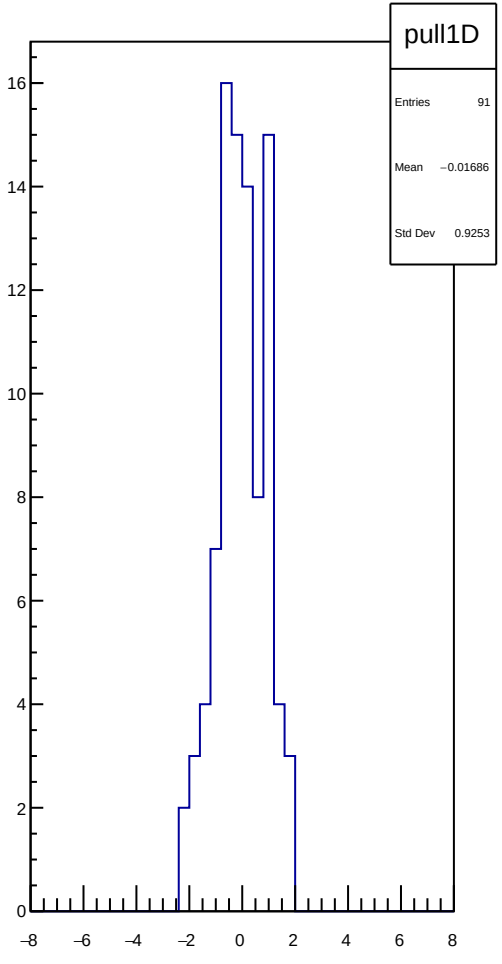

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 6150 / 90
p0 920.9 ± 0.6975
1100
1050
1000
950
900
850
800

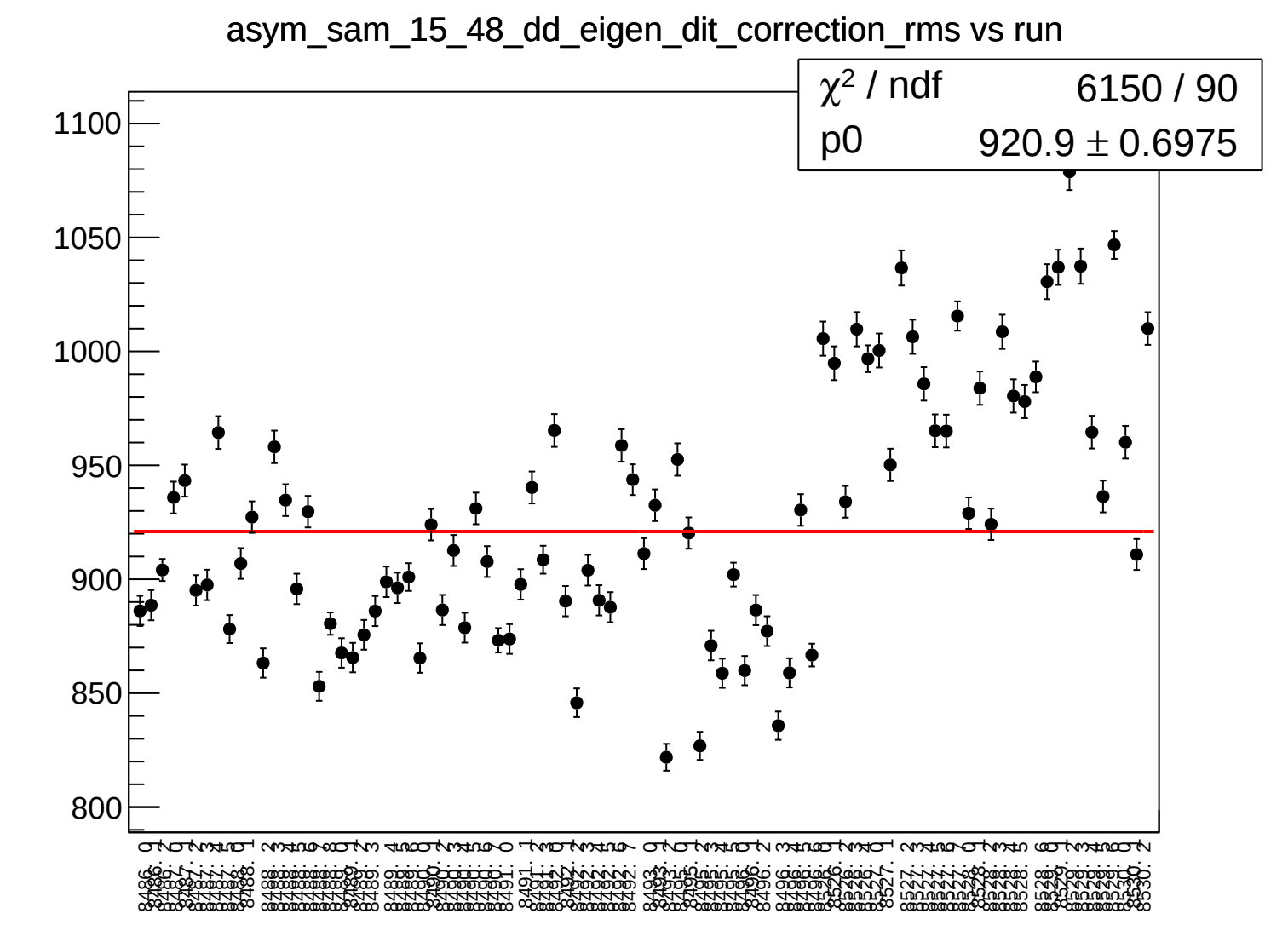

eigen_dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 86.02 / 90
p0 −153.4 ± 71.25
2000
1000
0
−1000
−2000
pull
Entries 91
Mean −108.1
Std Dev 0
3
2
1
0
−1
−2

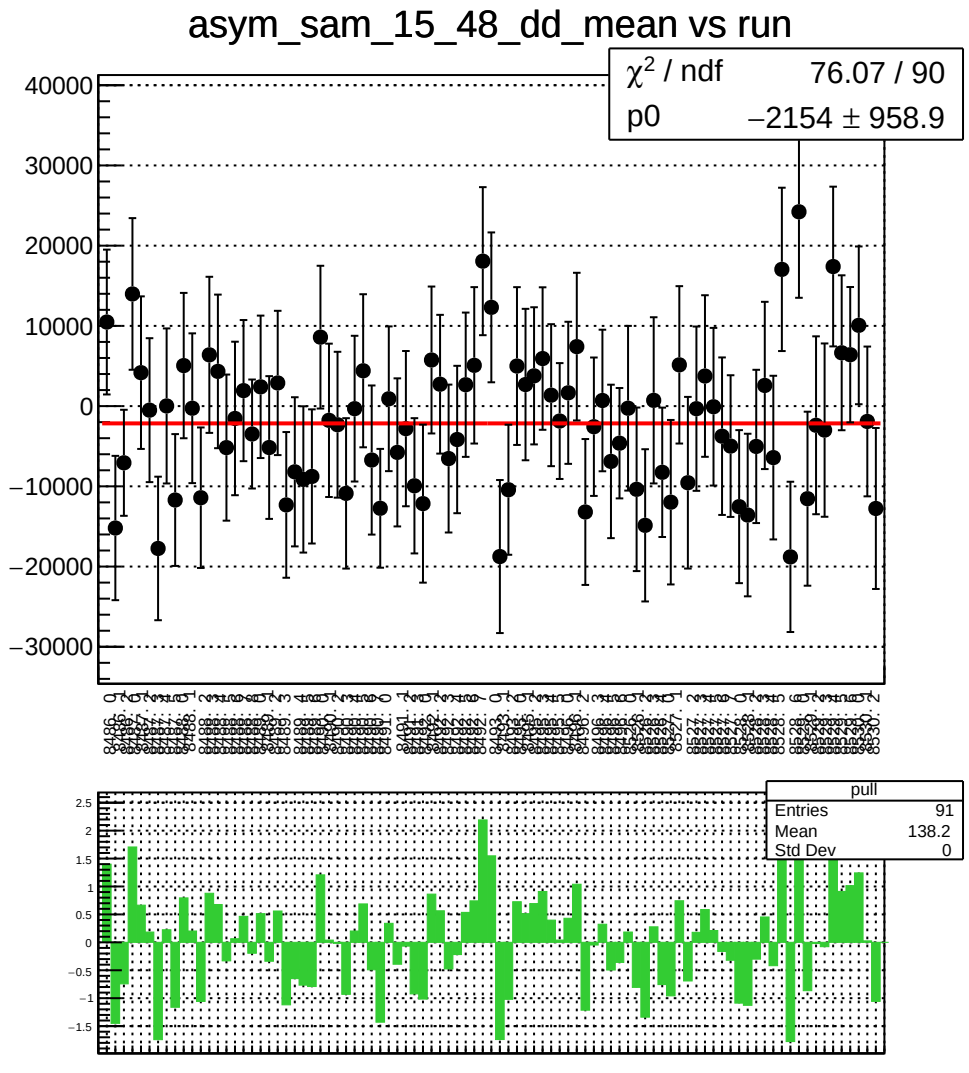

pull1D
Entries 91
Mean −0.01852
Std Dev 0.9721
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

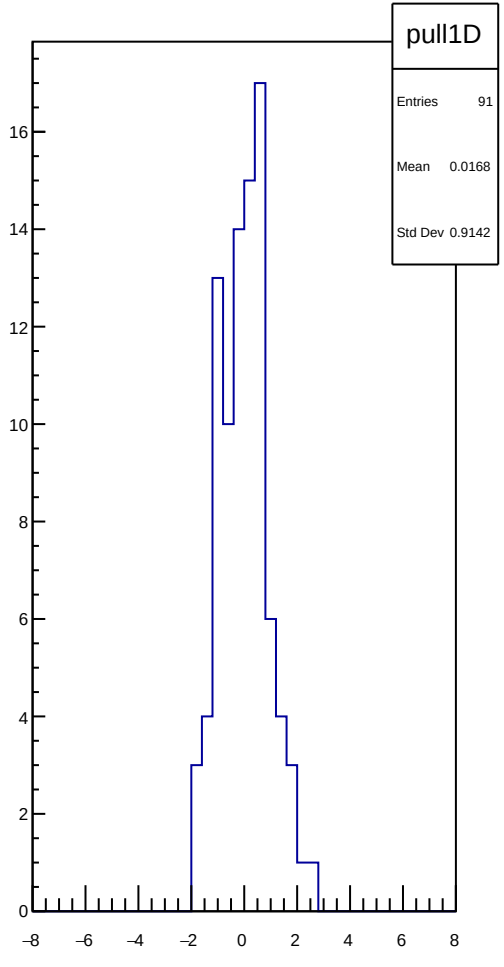

eigen_dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.299e+04 / 90
p0 66.39 ± 0.05038
100
90
80
70
60

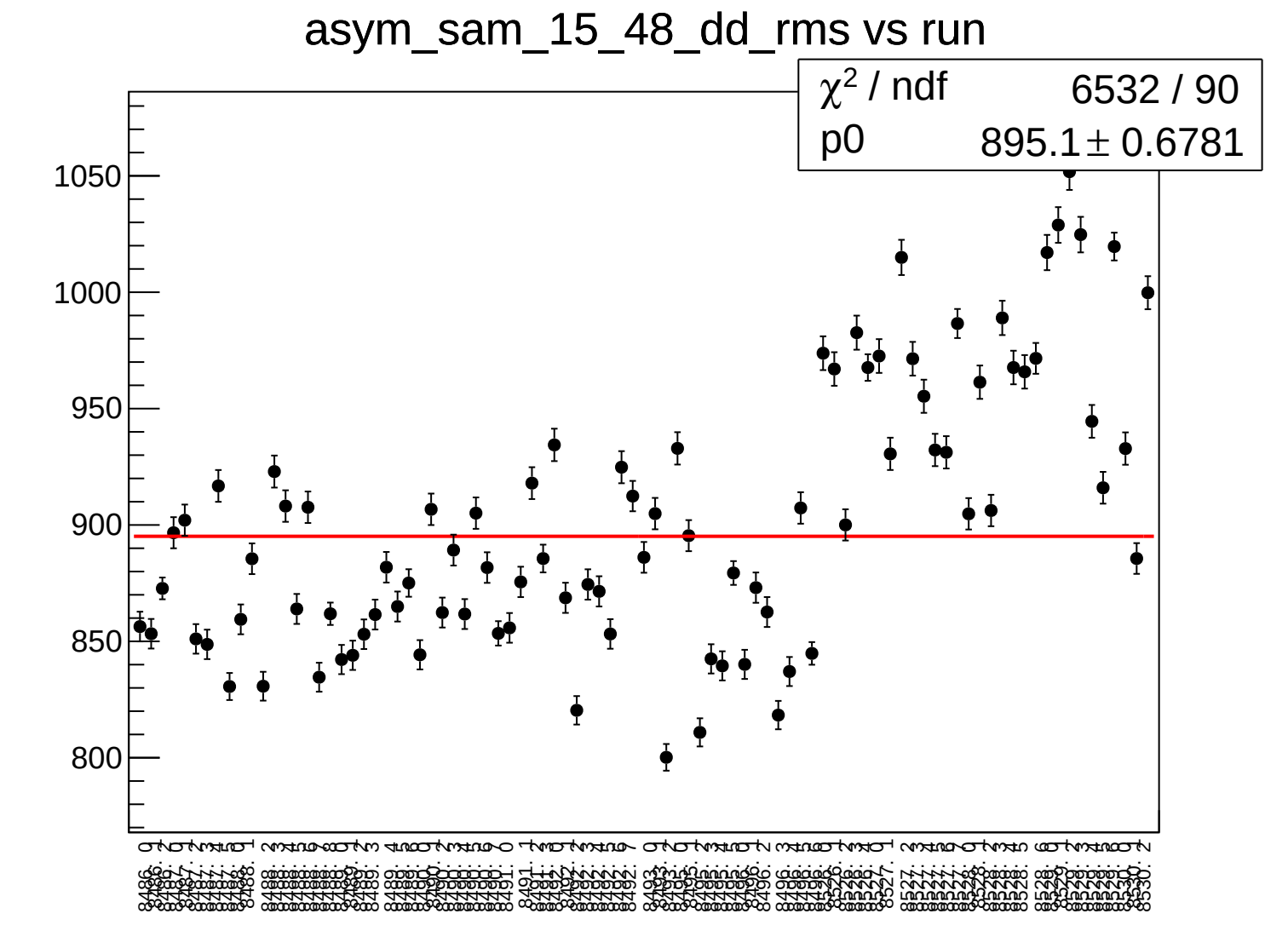

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 77.94 / 90
p0 1986 ± 986.5
pull
Entries 91
Mean 123.5
Std Dev 0

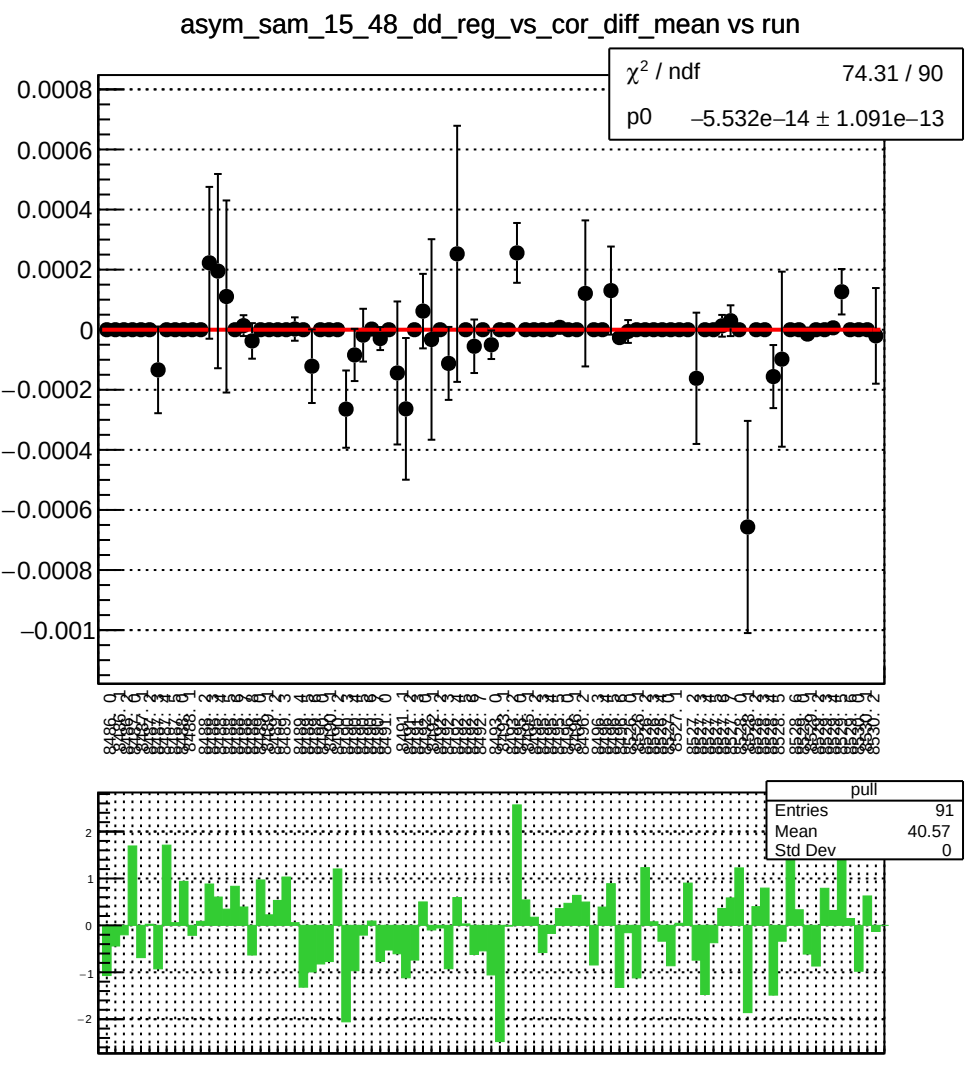

pull1D
Entries 91
Mean −0.01686
Std Dev 0.9253

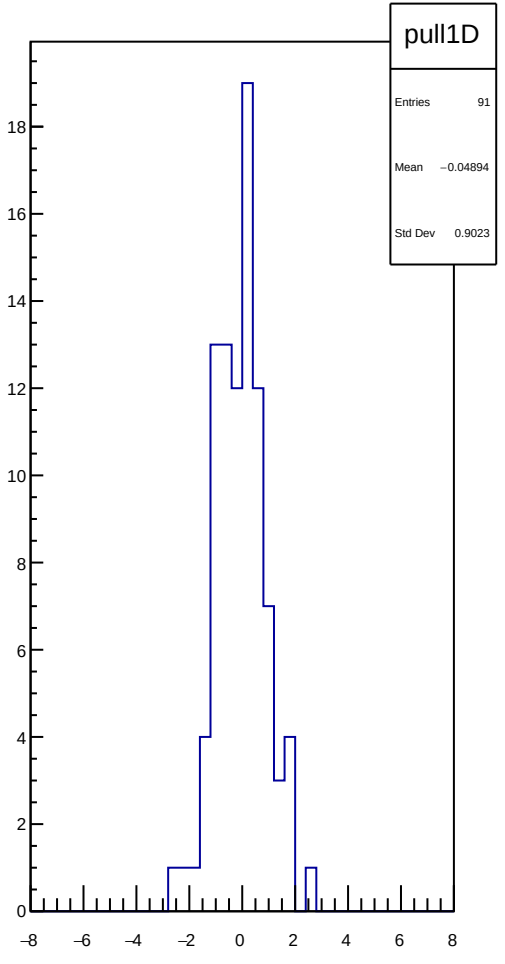

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 6150 / 90
p0 920.9 ± 0.6975
1100
1050
1000
950
900
850
800

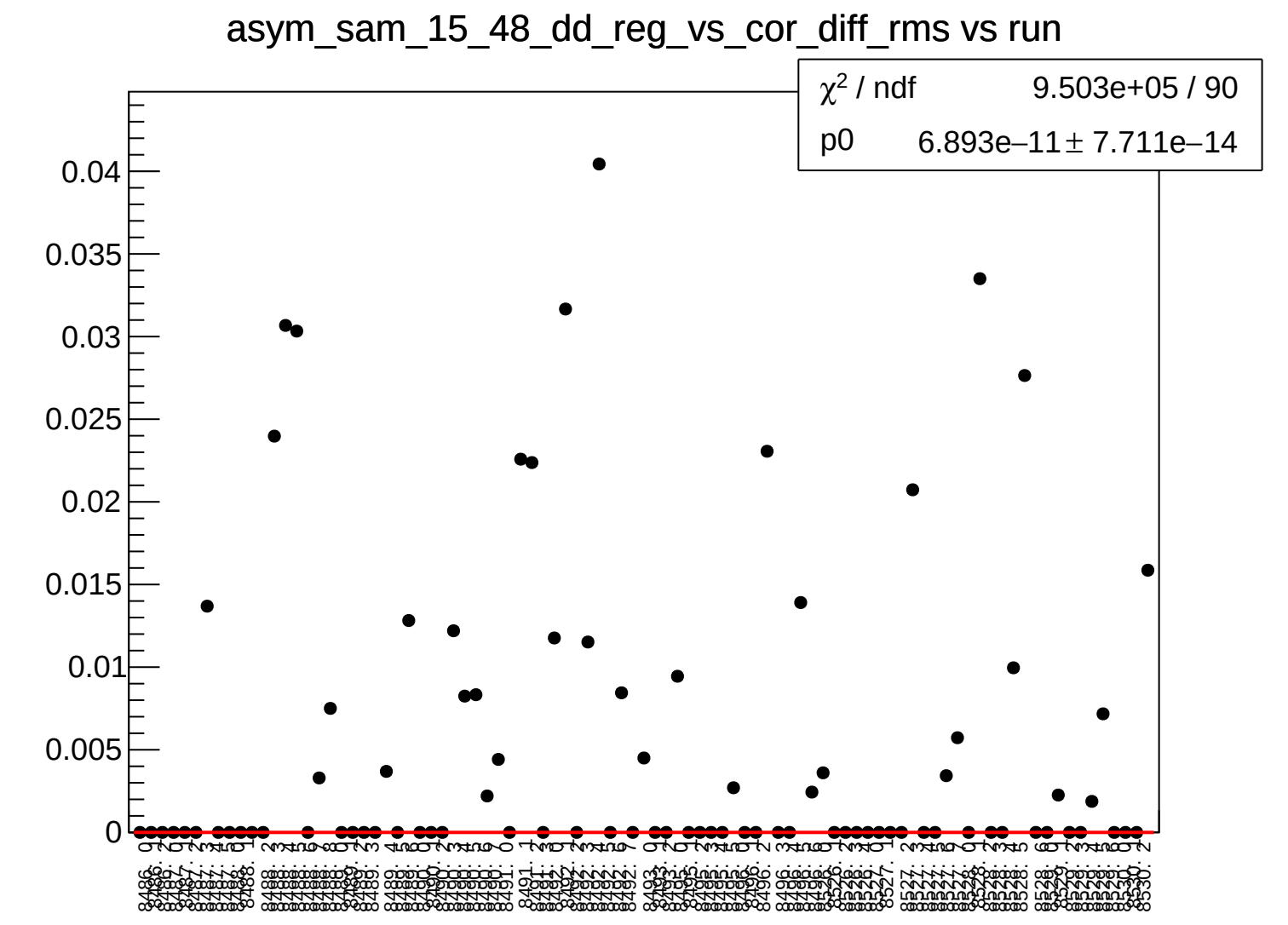

asym_sam_15_48_dd_mean vs run
χ² / ndf 76.07 / 90
p0 −2154 ± 958.9
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 138.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

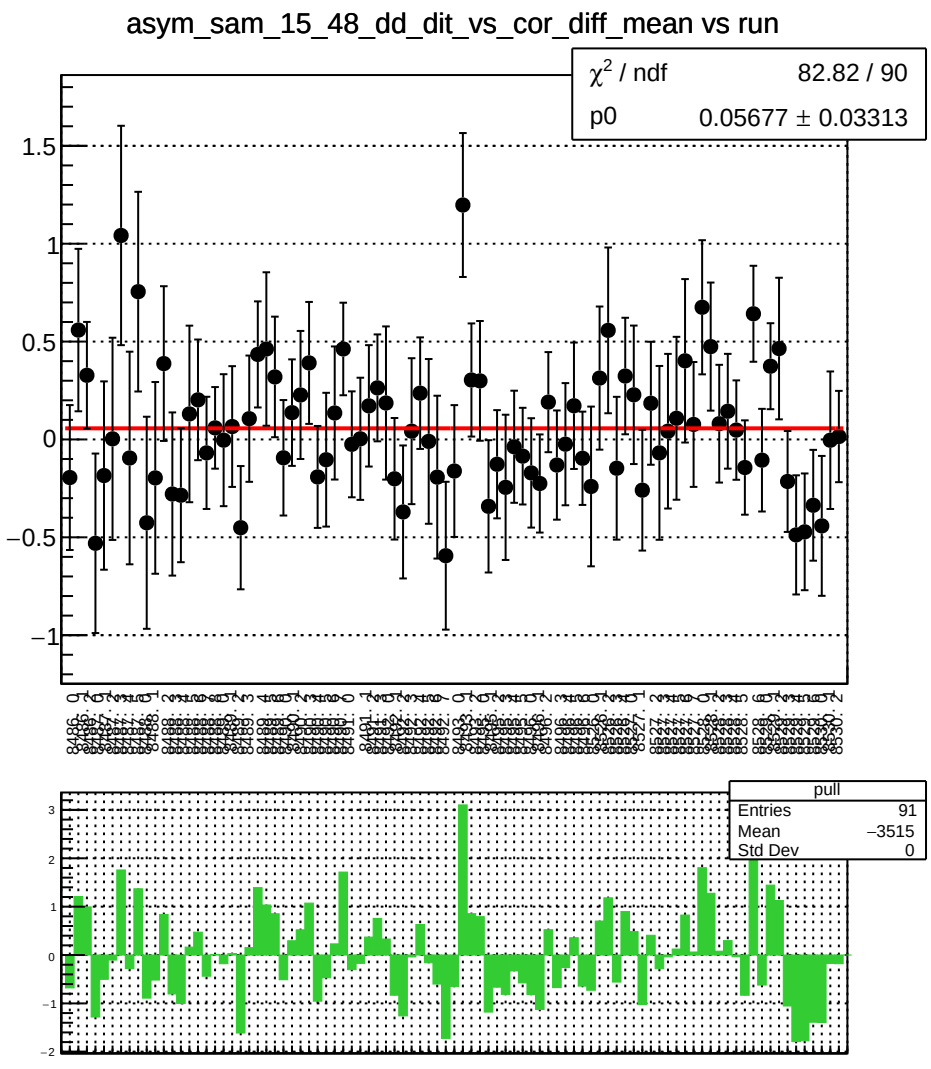

pull1D
Entries 91
Mean 0.0168
Std Dev 0.9142
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

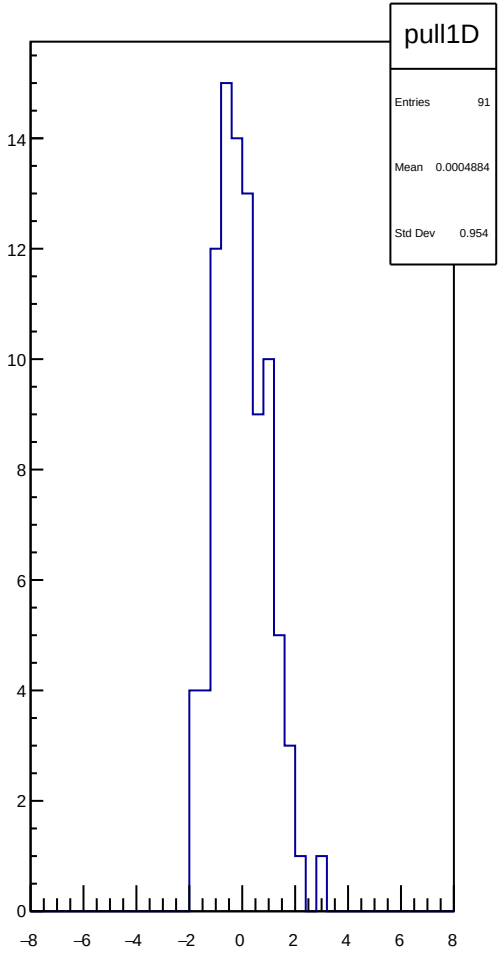

asym_sam_15_48_dd_rms vs run
χ^2 / ndf 6532 / 90
p0 895.1 ± 0.6781
1050
1000
950
900
850
800

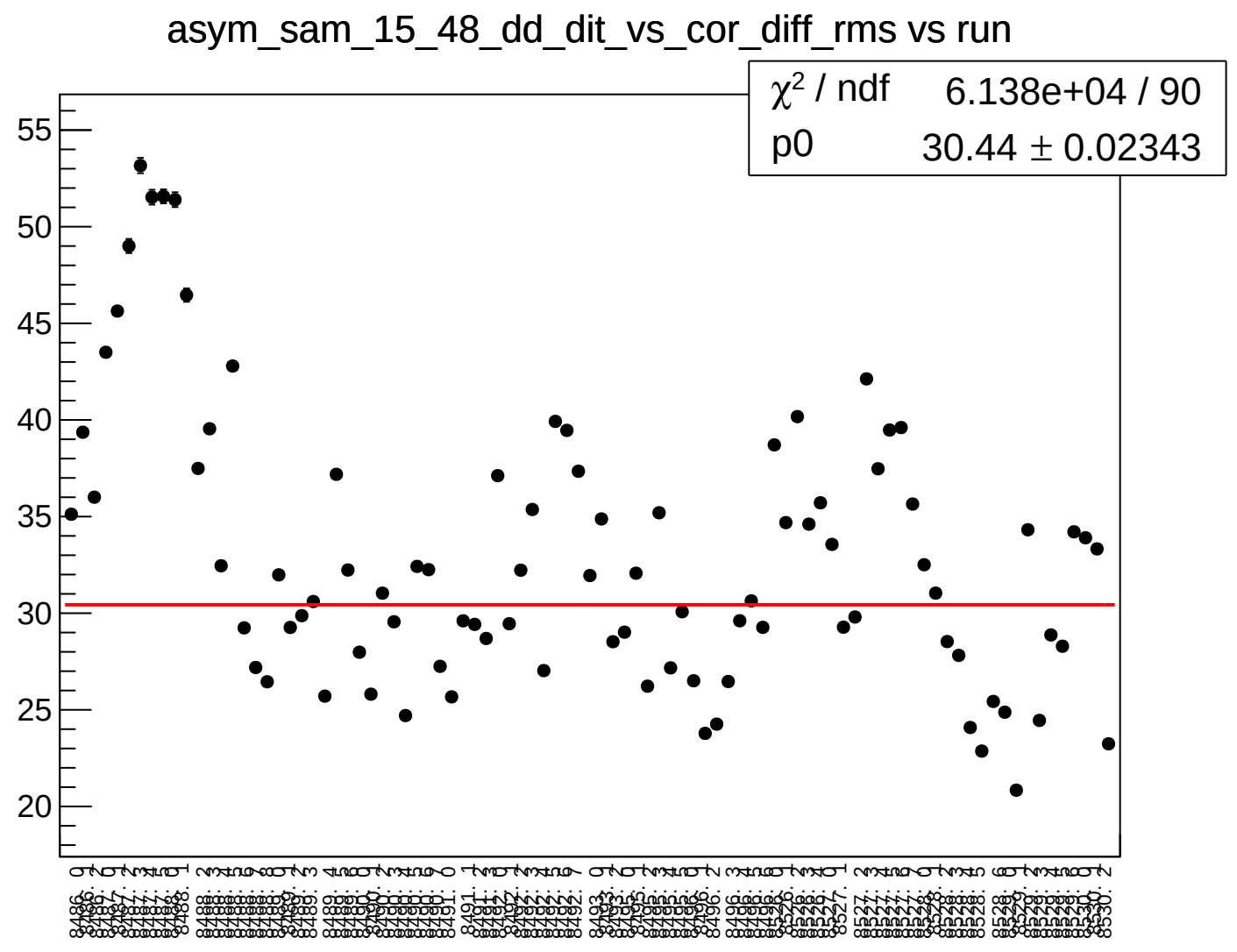

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 74.31 / 90
p0 −5.532e−14 ± 1.091e−13
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 91
Mean 40.57
Std Dev 0
2
1
0
−1
−2

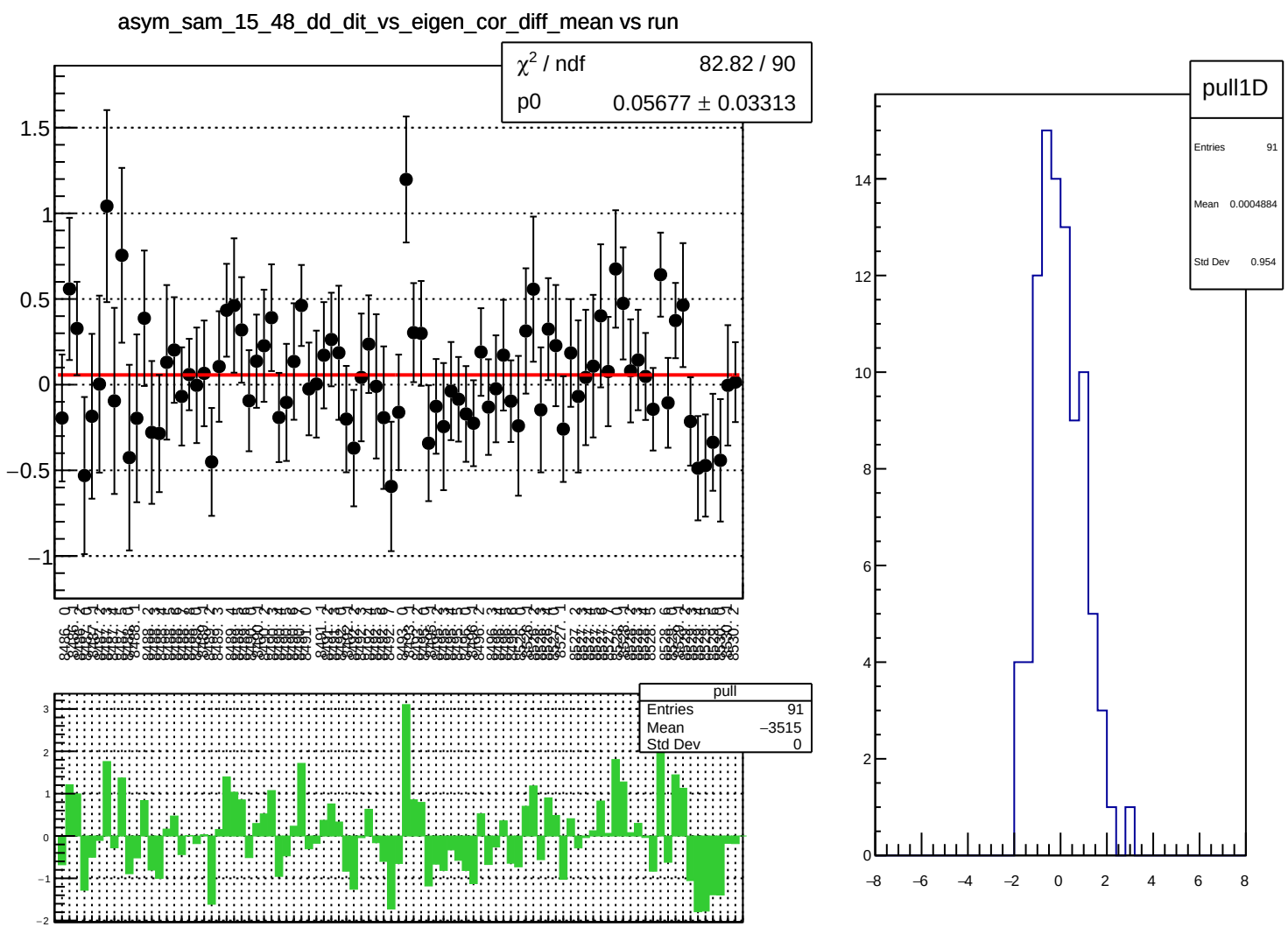

pull1D
Entries 91
Mean −0.04894
Std Dev 0.9023
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

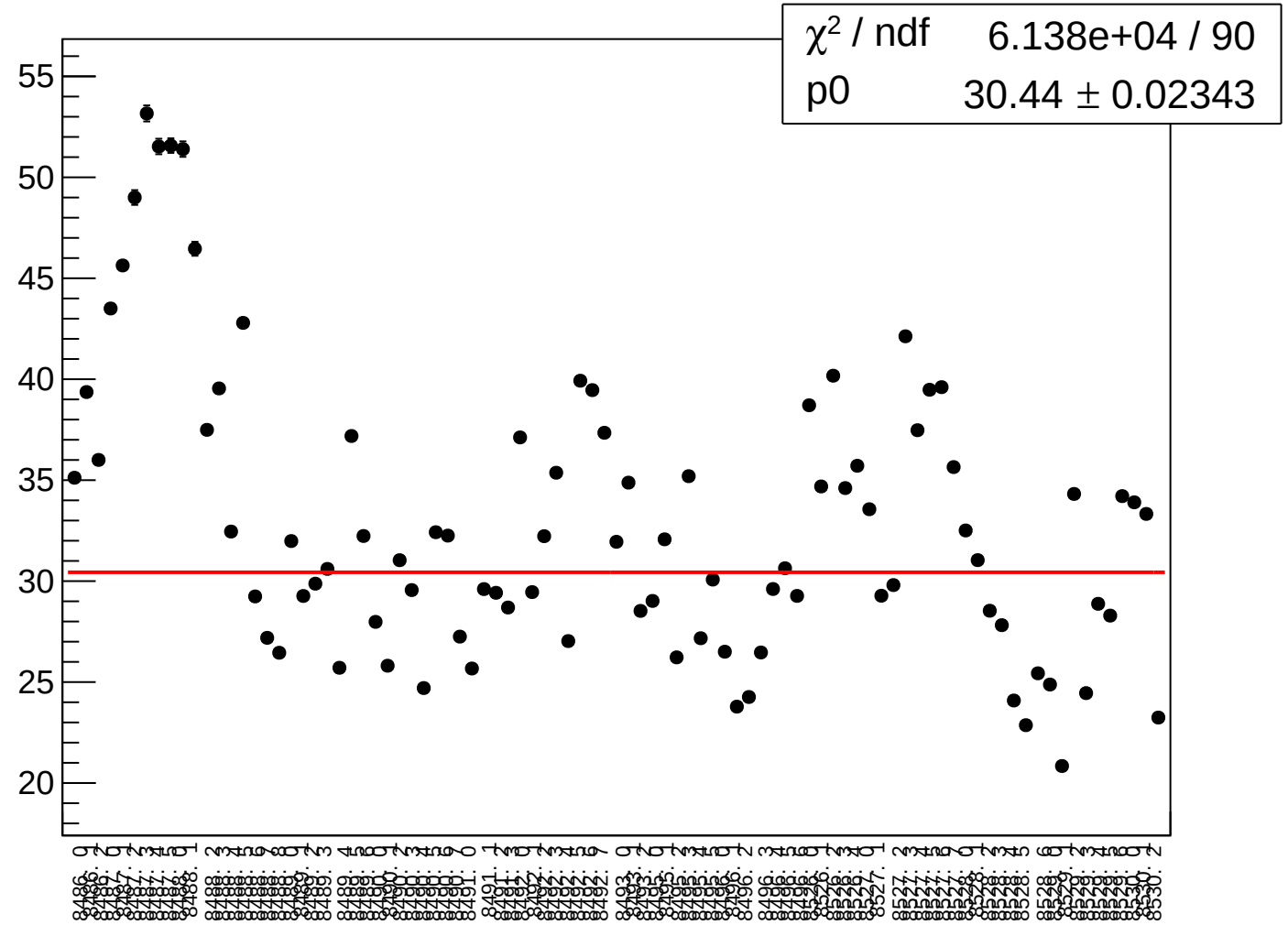

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.503e+05 / 90
p0 6.893e−11 ± 7.711e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

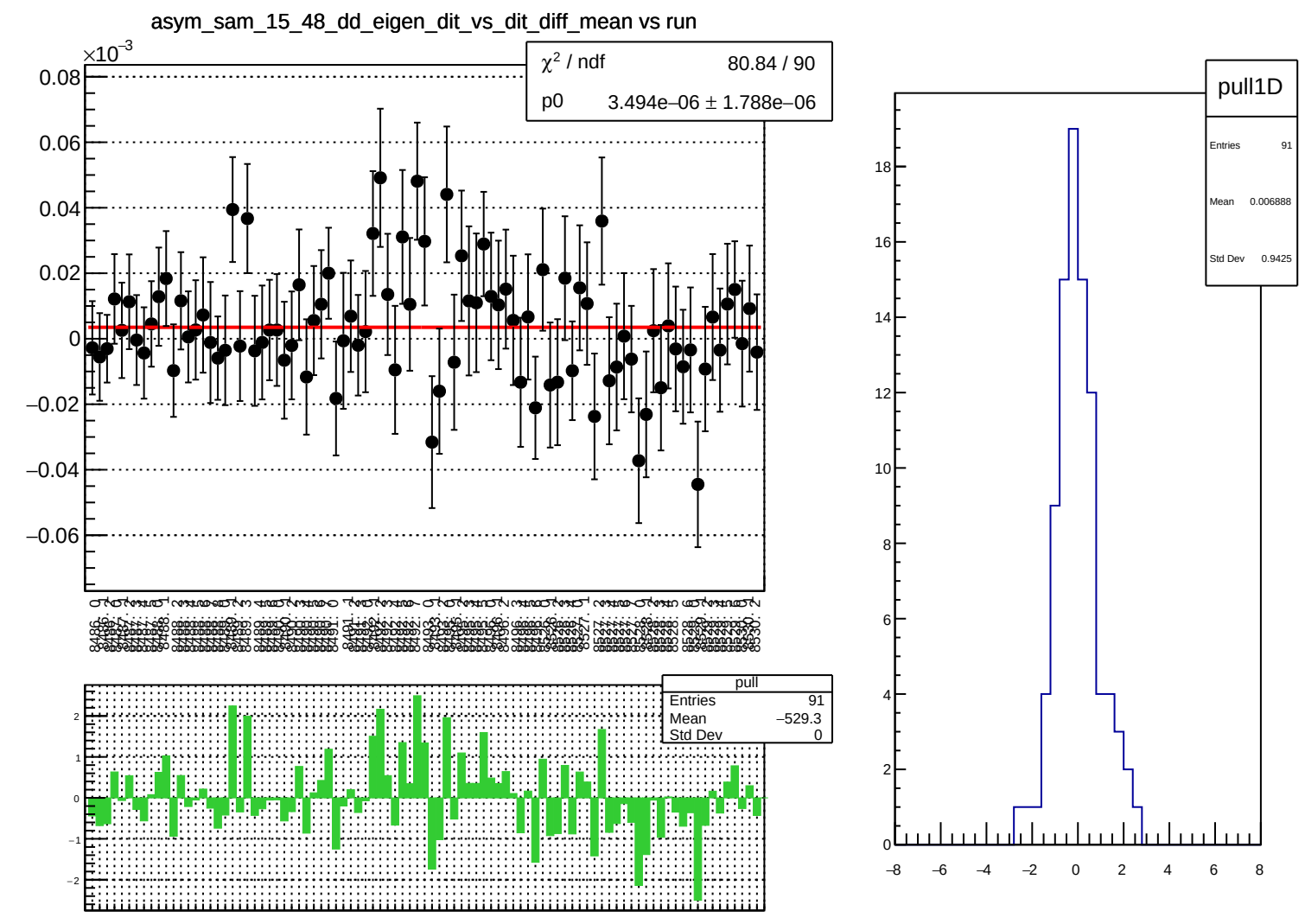

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 82.82 / 90
p0 0.05677 ± 0.03313
pull
Entries 91
Mean −3515
Std Dev 0

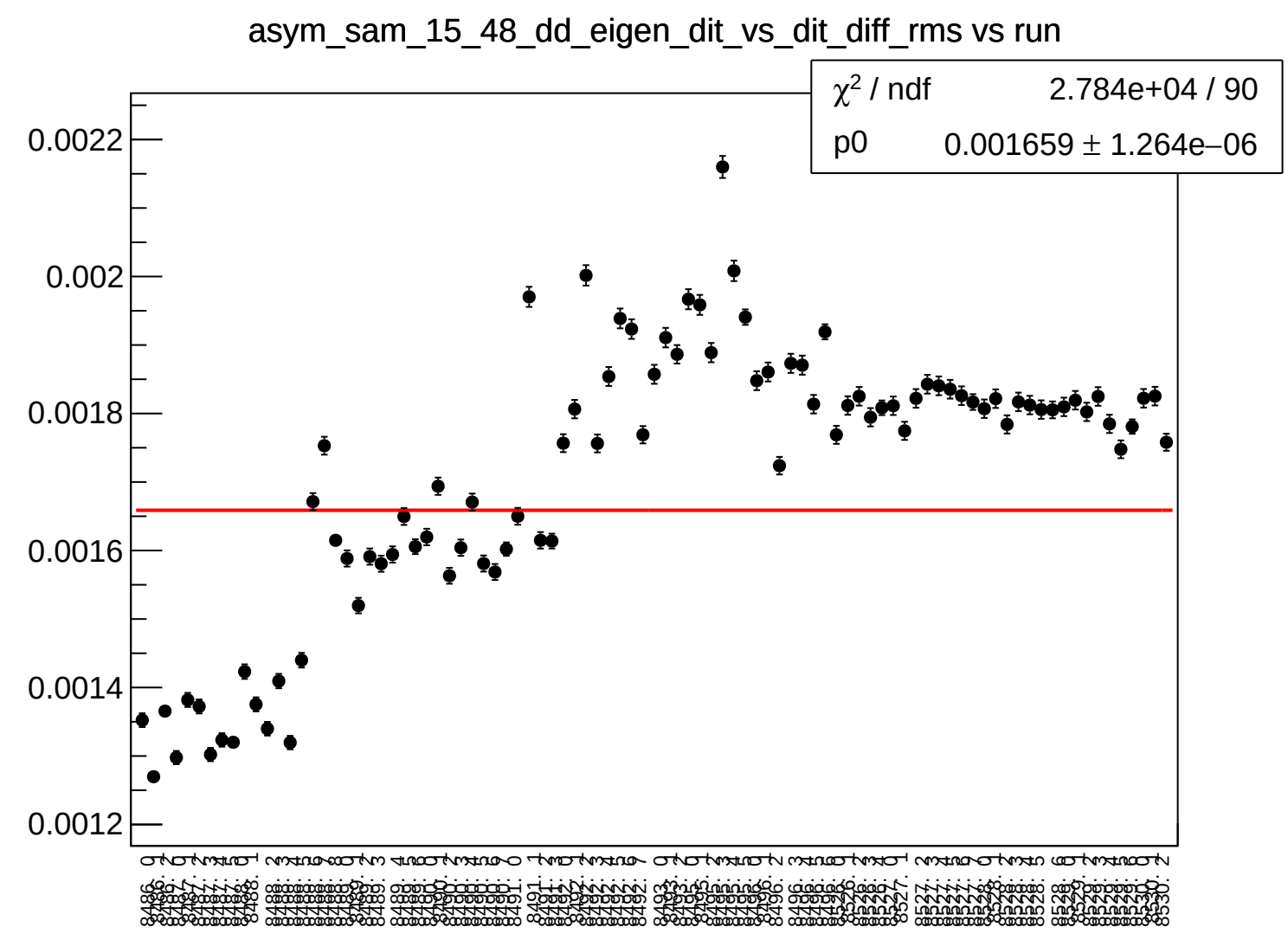

pull1D
Entries 91
Mean 0.0004884
Std Dev 0.954

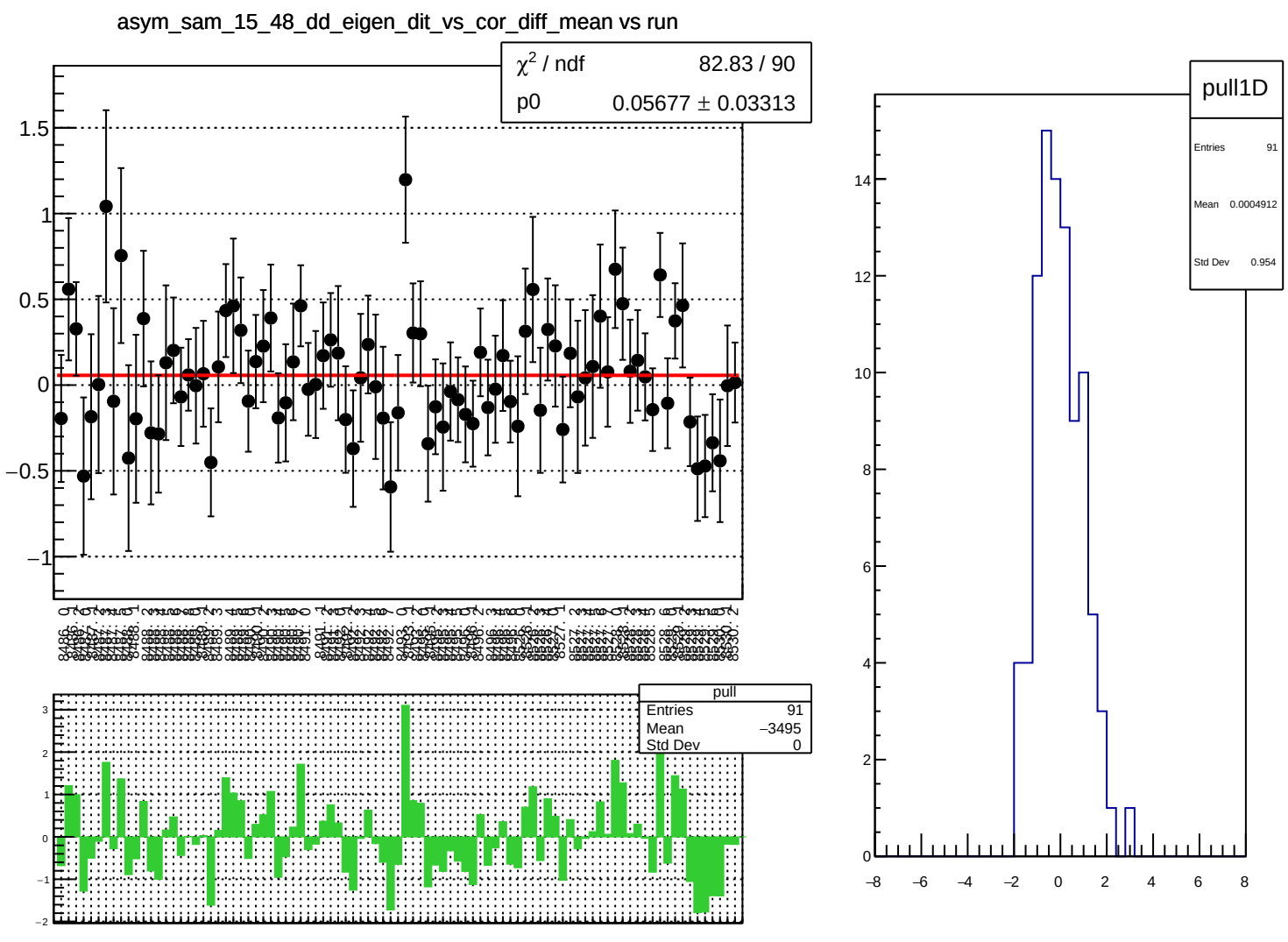

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.138e+04 / 90
p0 30.44 ± 0.02343
55
50
45
40
35
30
25
20

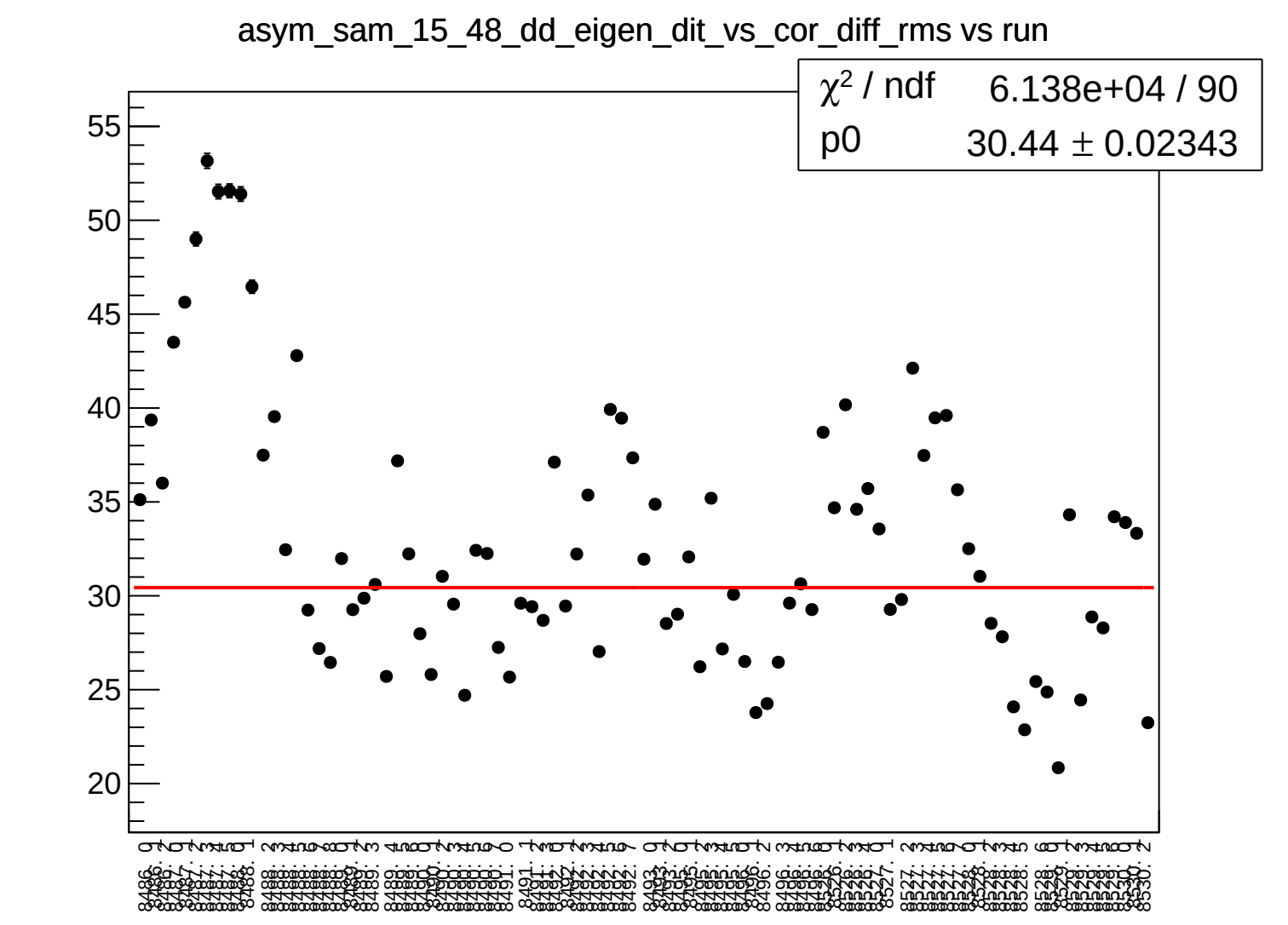

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.82 / 90
p0 0.05677 ± 0.03313
pull
Entries 91
Mean −3515
Std Dev 0
pull1D
Entries 91
Mean 0.0004884
Std Dev 0.954

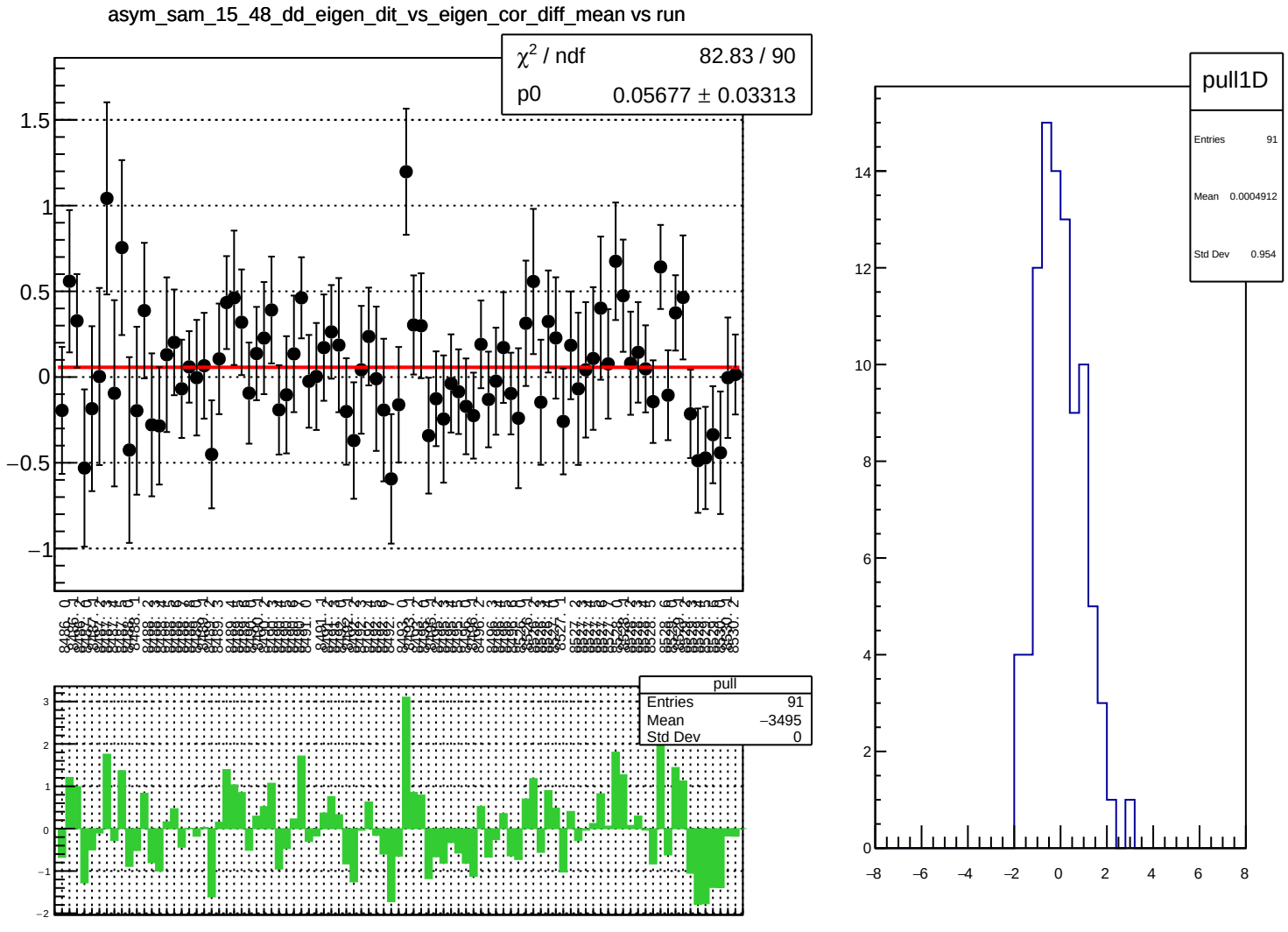

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.138e+04 / 90
p0 30.44 ± 0.02343
55
50
45
40
35
30
25
20

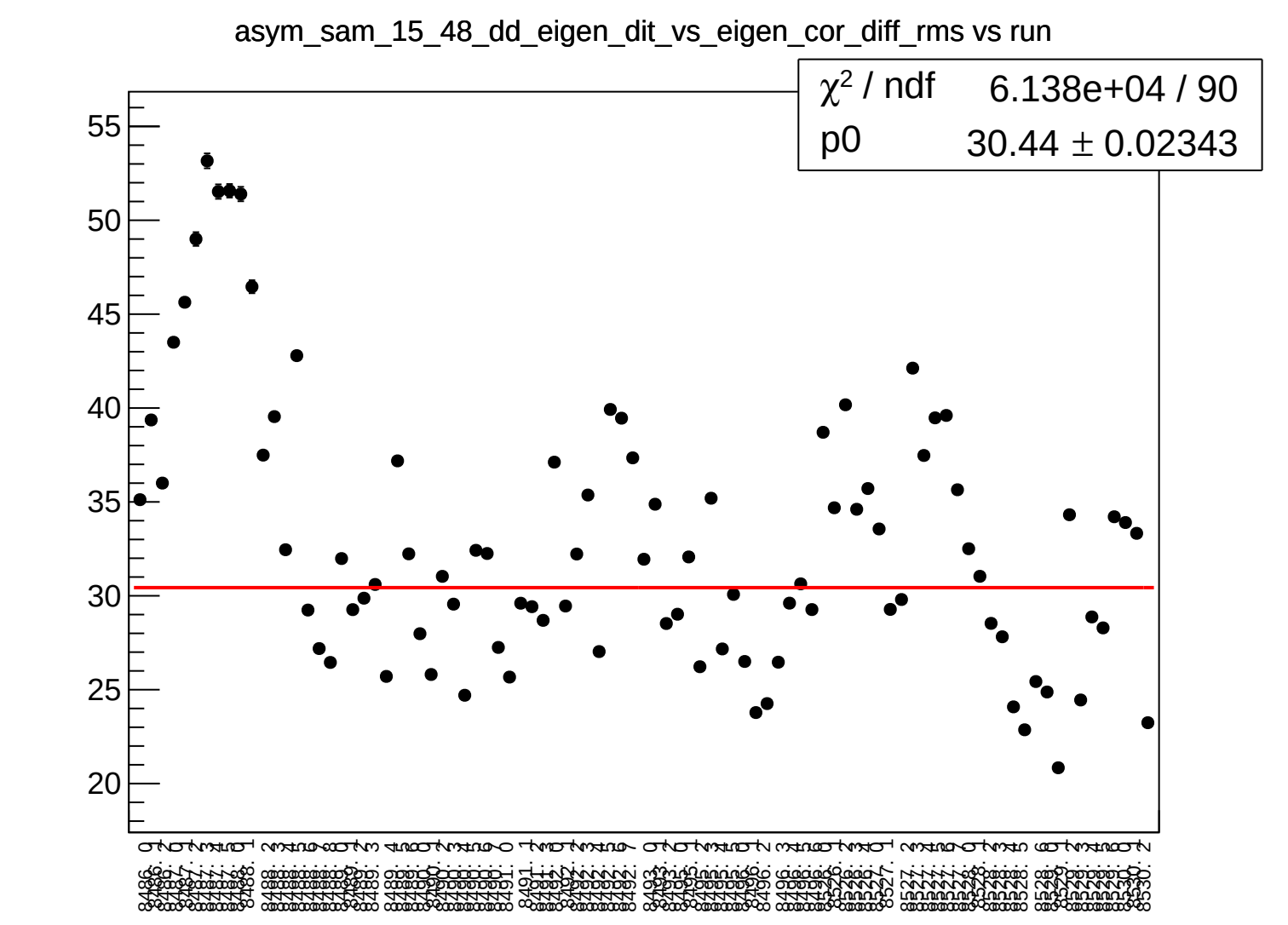

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.84 / 90
p0 3.494e−06 ± 1.788e−06
pull
Entries 91
Mean −529.3
Std Dev 0
pull1D
Entries 91
Mean 0.006888
Std Dev 0.9425

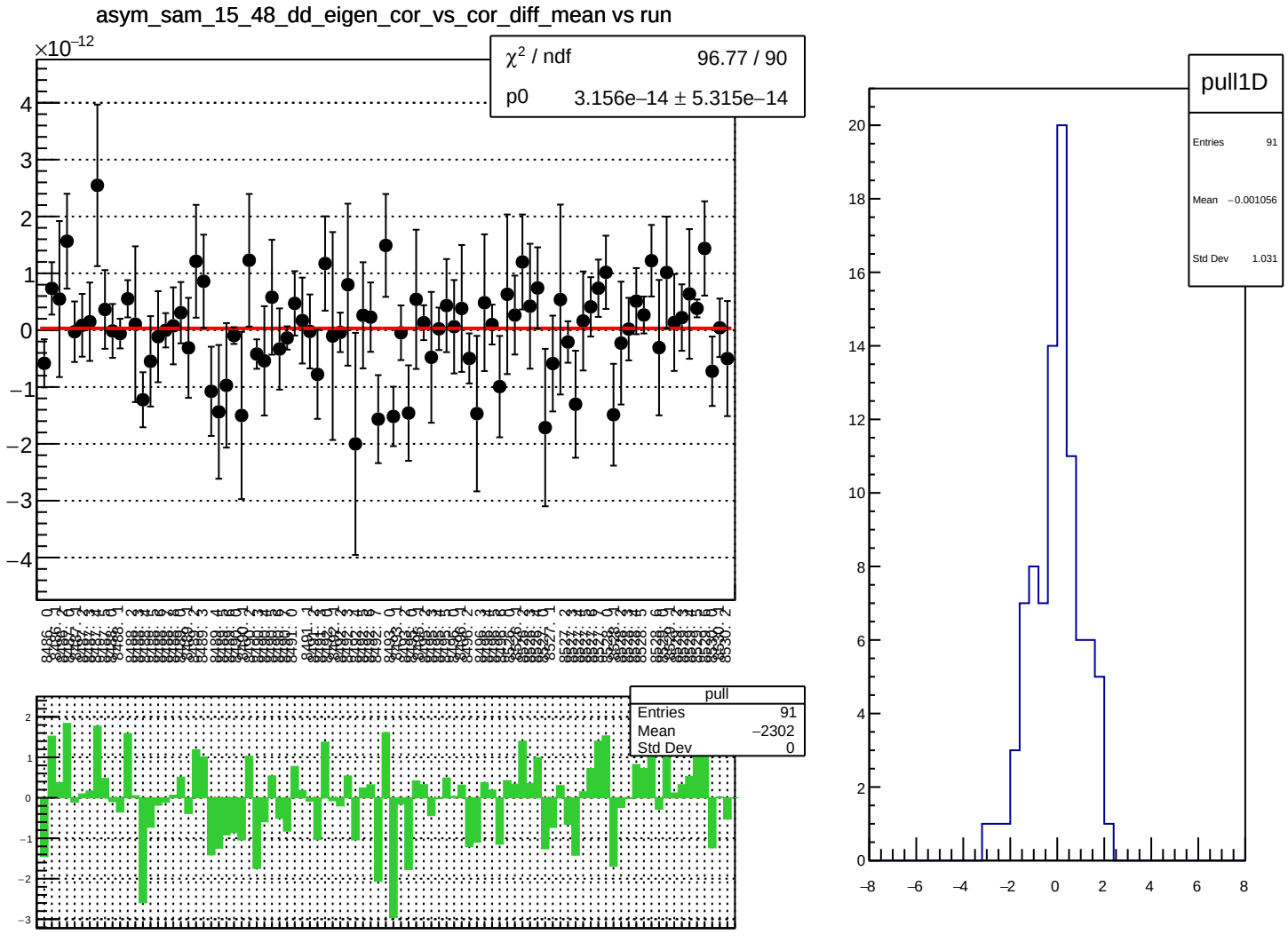

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.784e+04 / 90
p0 0.001659 ± 1.264e−06
0.0022
0.002
0.0018
0.0016
0.0014
0.0012

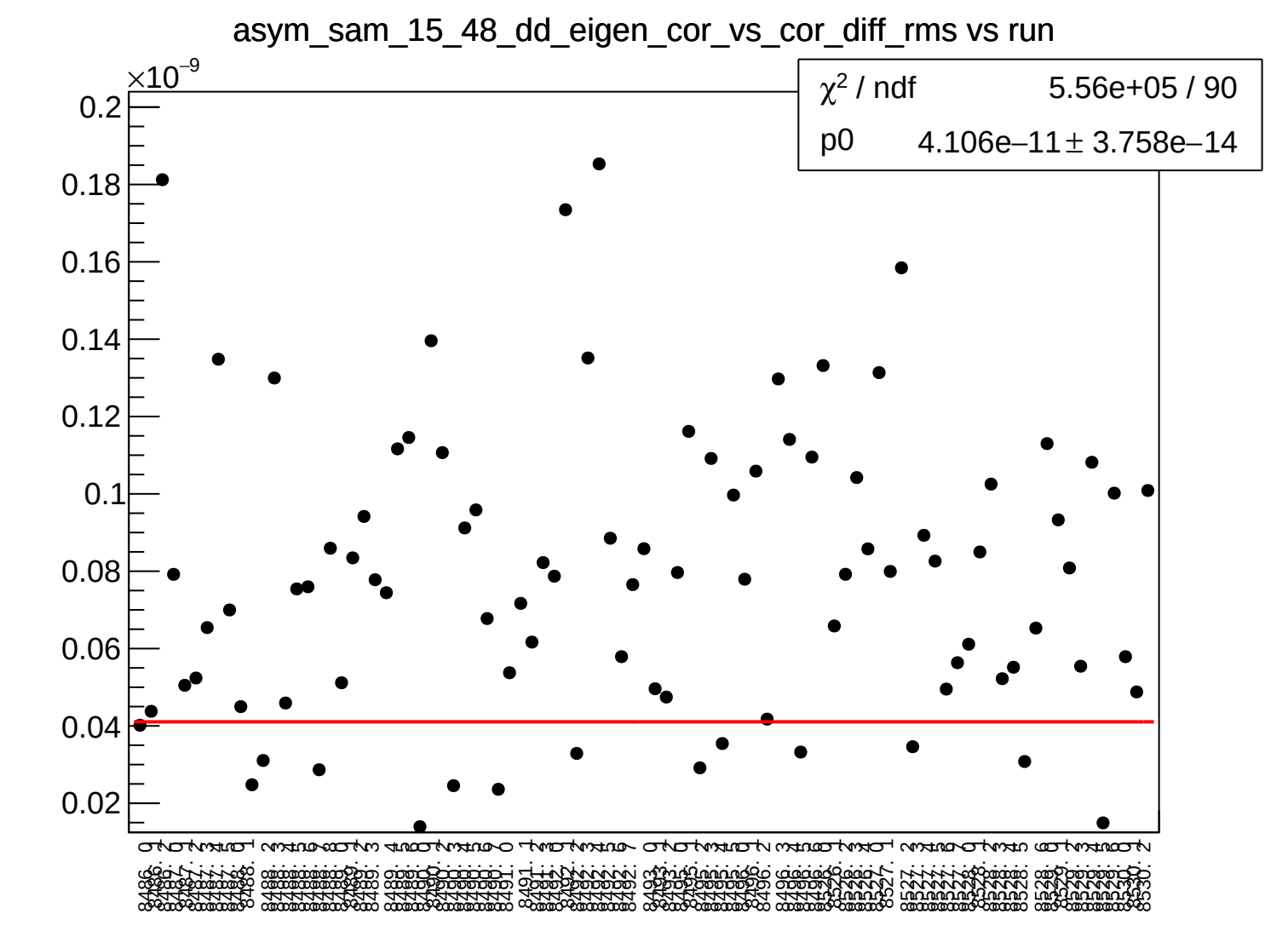

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.83 / 90
p0 0.05677 ± 0.03313
pull
Entries 91
Mean −3495
Std Dev 0
pull1D
Entries 91
Mean 0.0004912
Std Dev 0.954

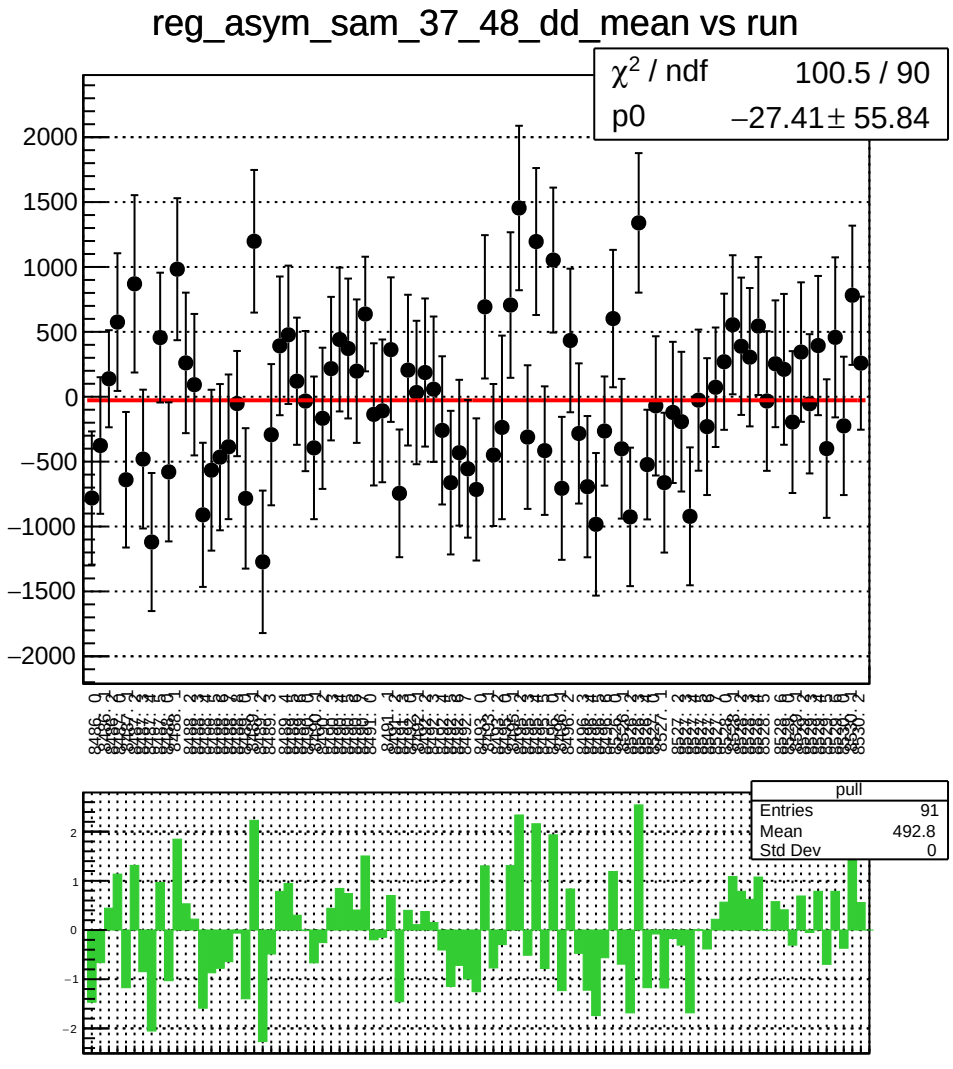

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.138e+04 / 90
p0 30.44 ± 0.02343
55
50
45
40
35
30
25
20

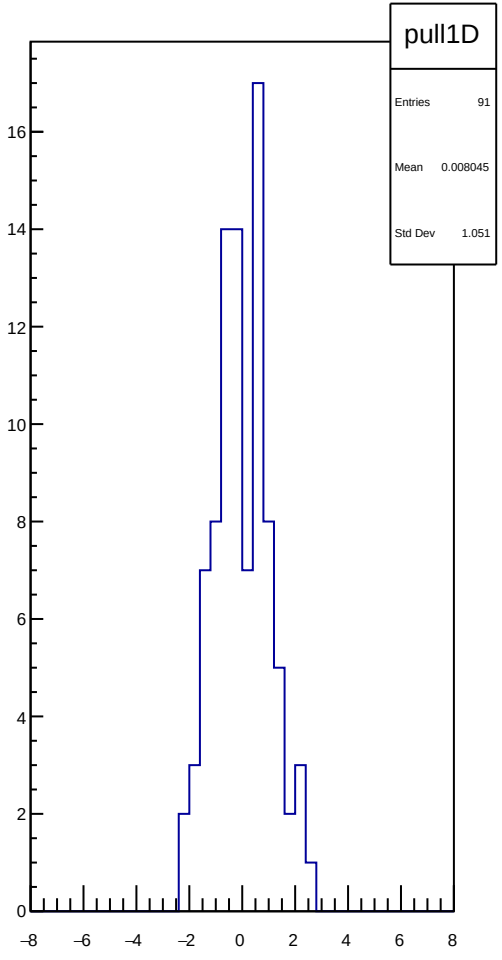

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.83 / 90
p0 0.05677 ± 0.03313
pull
Entries 91
Mean −3495
Std Dev 0
pull1D
Entries 91
Mean 0.0004912
Std Dev 0.954

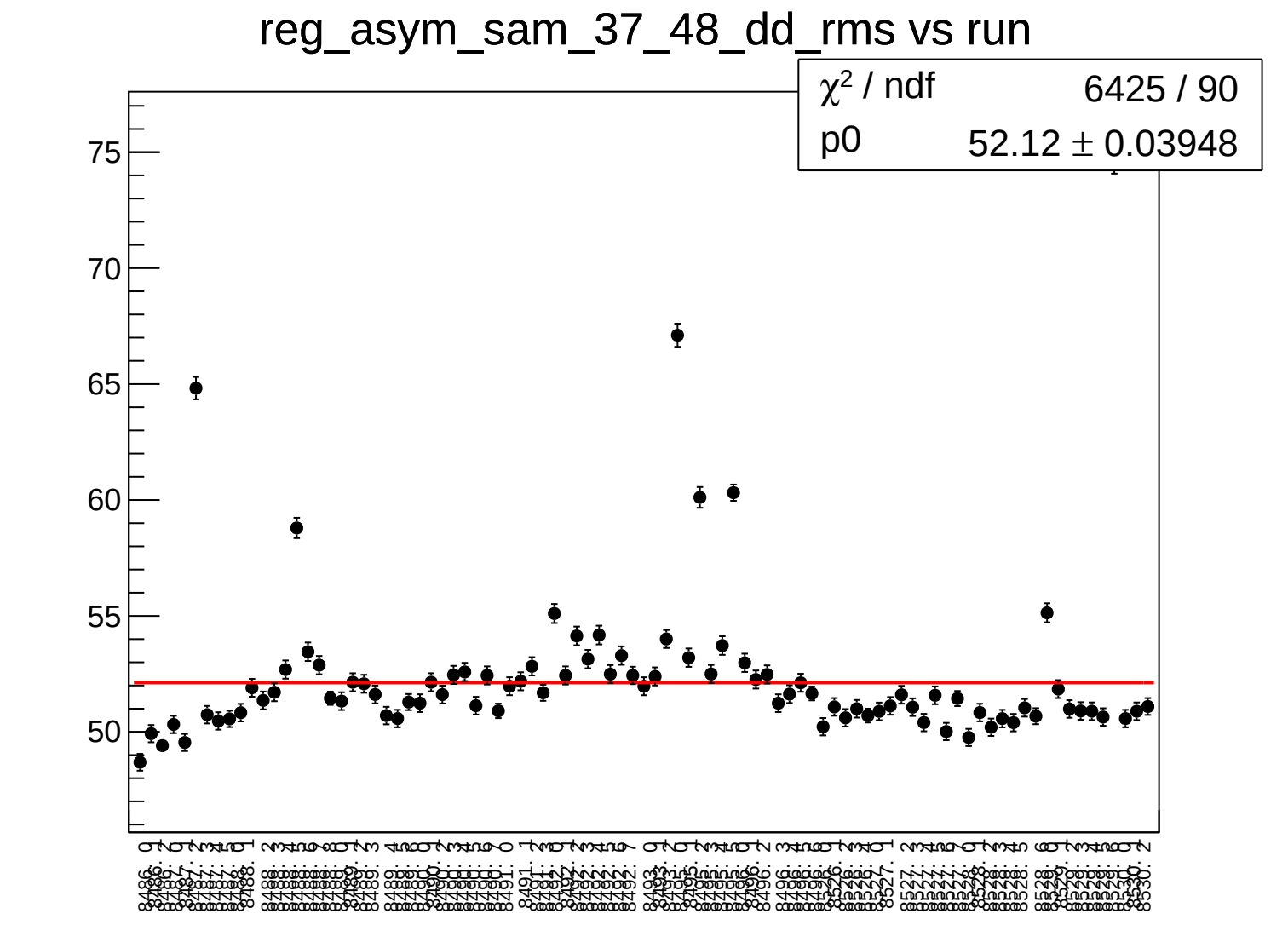

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.138e+04 / 90
p0 30.44 ± 0.02343
55
50
45
40
35
30
25
20

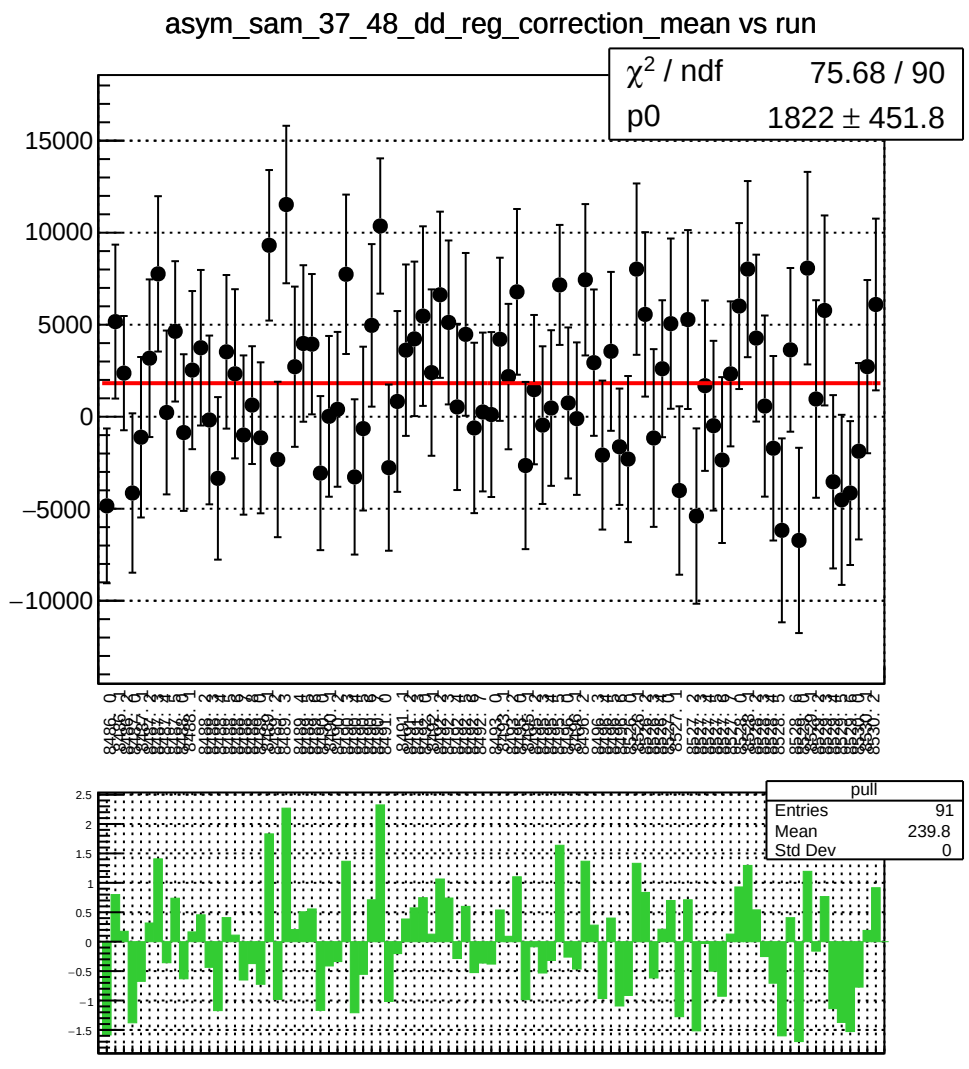

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.77 / 90
p0 3.156e−14 ± 5.315e−14
pull
Entries 91
Mean −2302
Std Dev 0
pull1D
Entries 91
Mean −0.001056
Std Dev 1.031

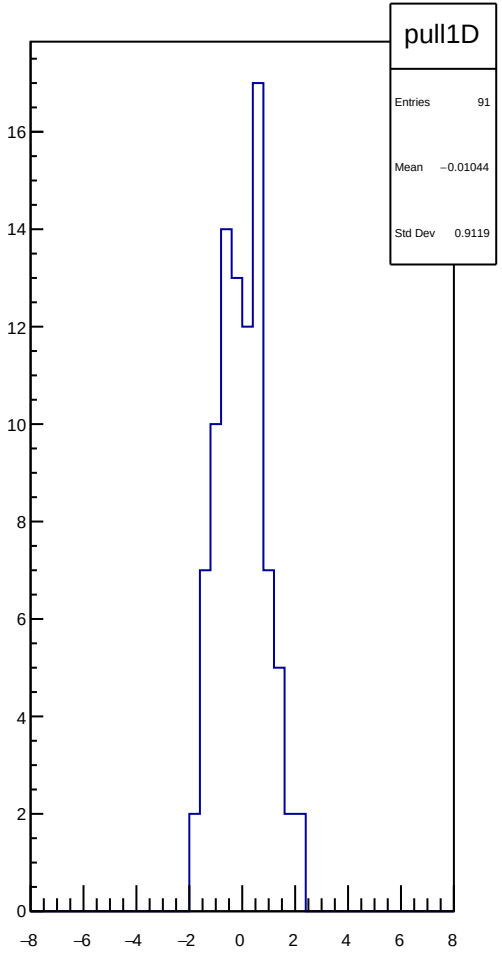

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.56e+05 / 90
p0 4.106e−11 ± 3.758e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

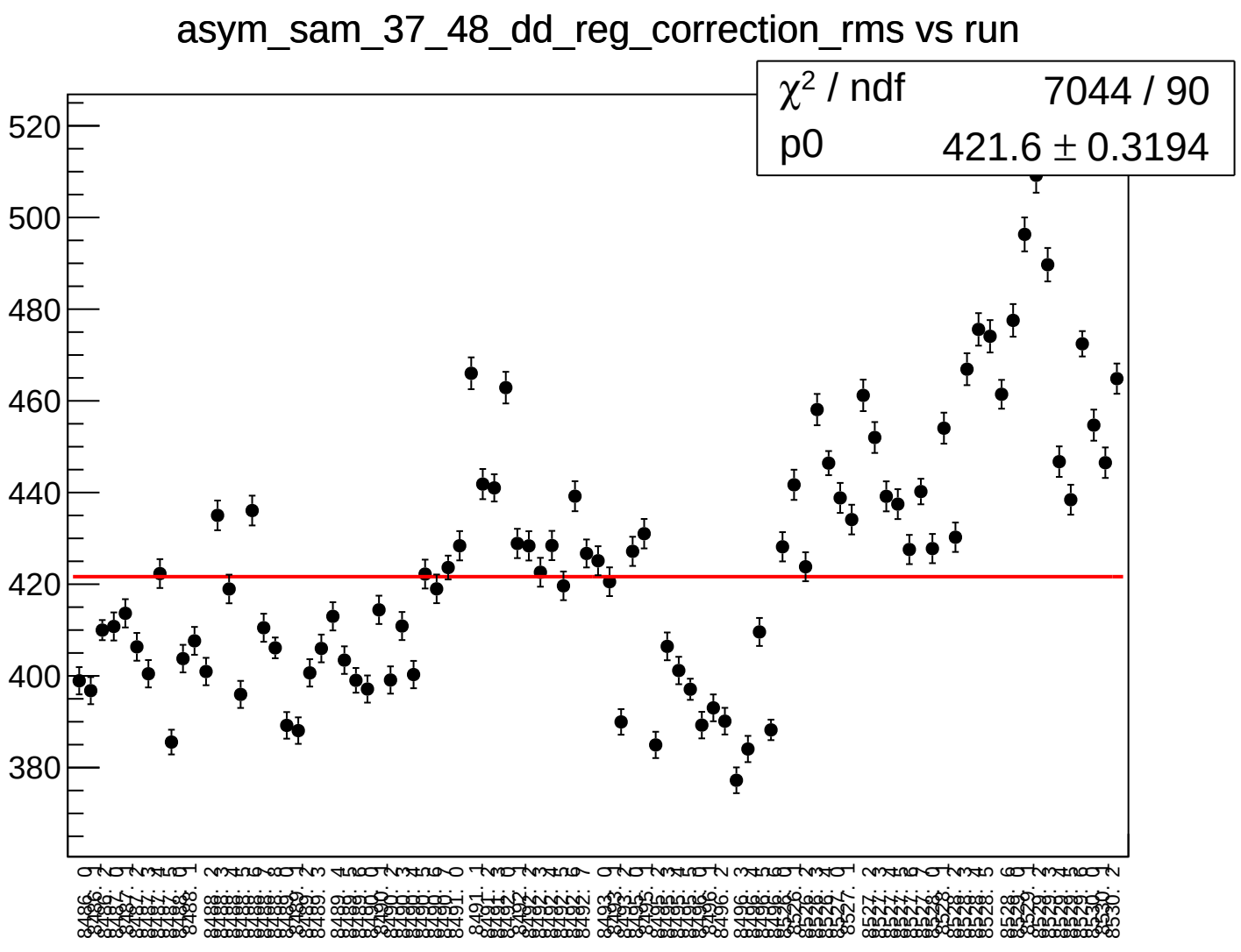

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 100.5 / 90
p0 −27.41 ± 55.84
pull
Entries 91
Mean 492.8
Std Dev 0

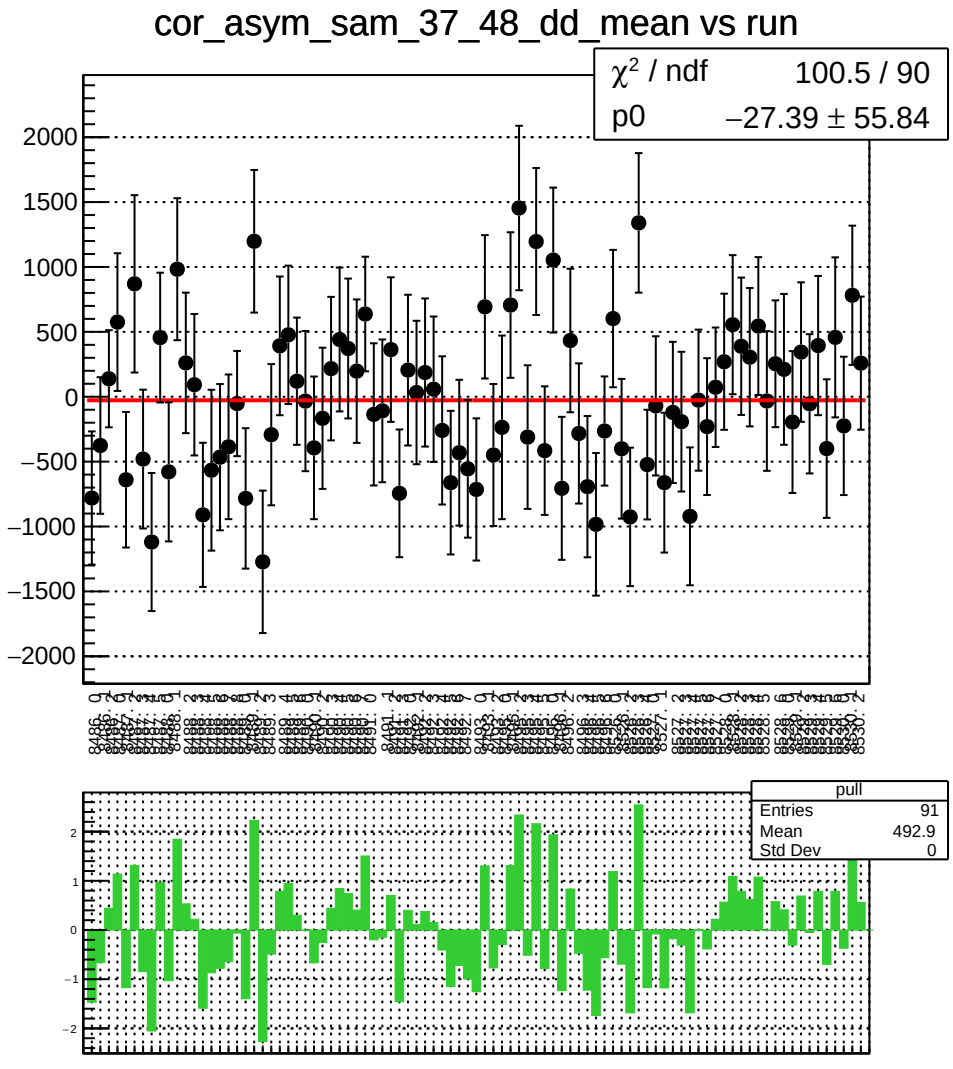

pull1D
Entries 91
Mean 0.008045
Std Dev 1.051

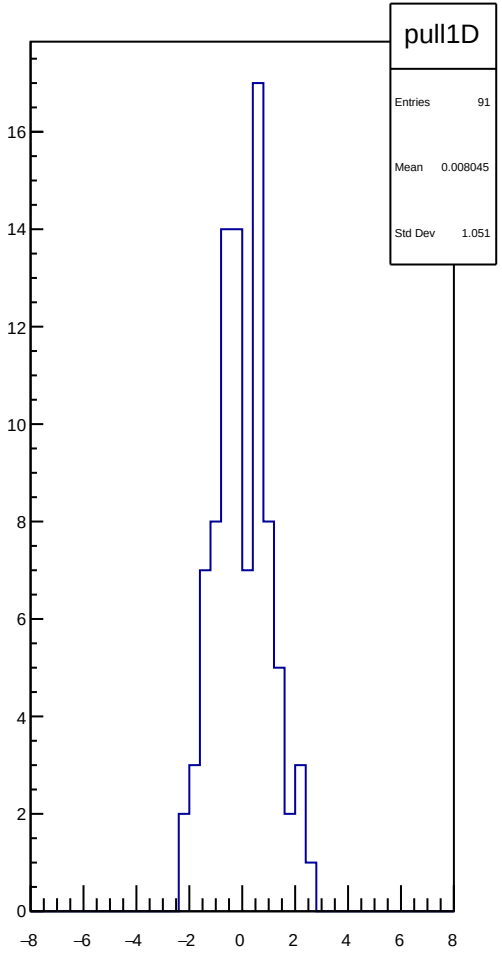

reg_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 6425 / 90
p0 52.12 ± 0.03948
75
70
65
60
55
50

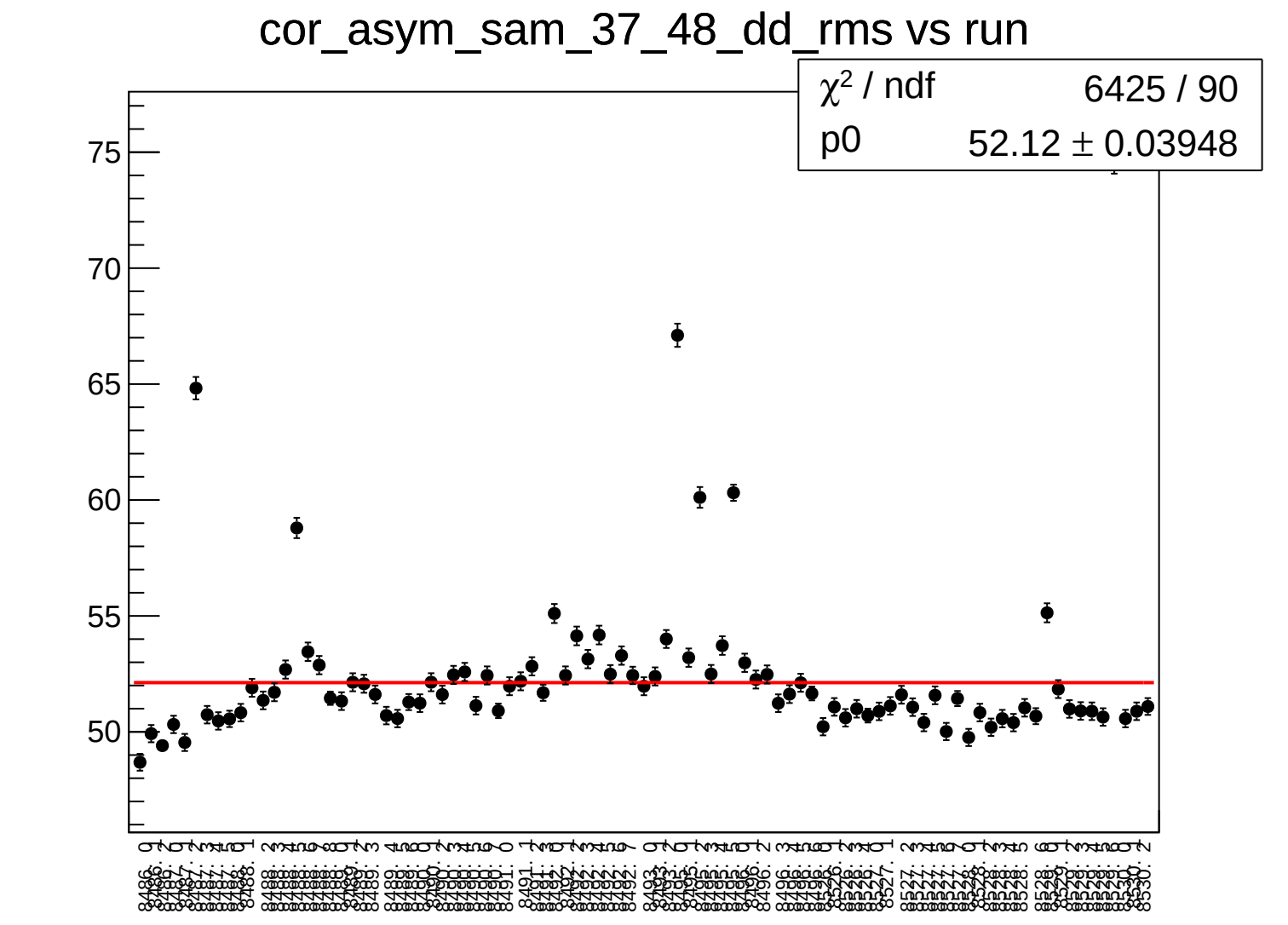

asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 75.68 / 90
p0 1822 ± 451.8
15000
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 239.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

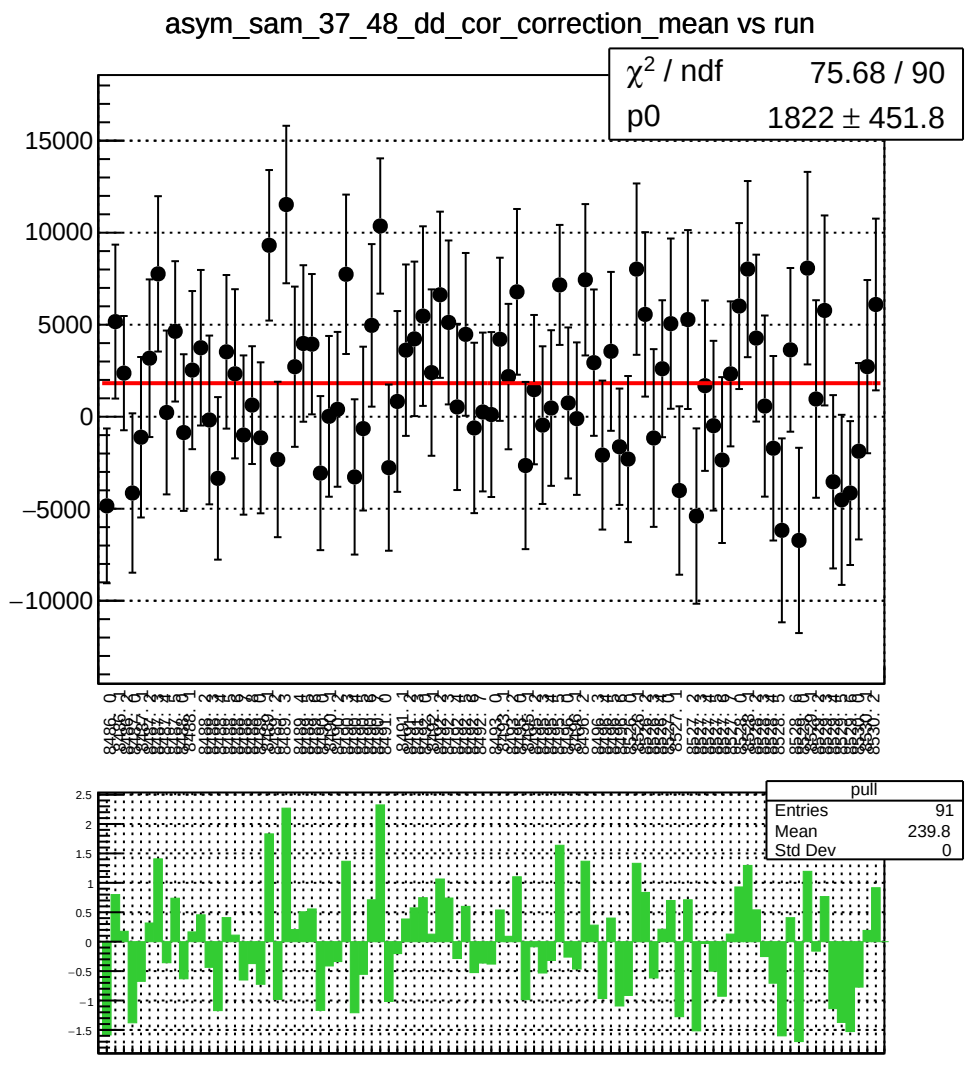

pull1D
Entries 91
Mean −0.01044
Std Dev 0.9119
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

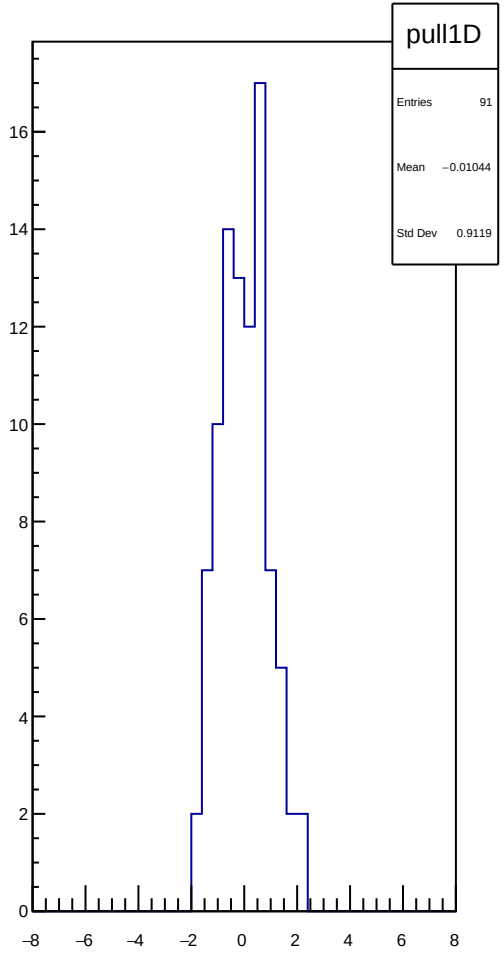

asym_sam_37_48_dd_reg_correction_rms vs run
χ^2 / ndf 7044 / 90
p0 421.6 ± 0.3194
520
500
480
460
440
420
400
380

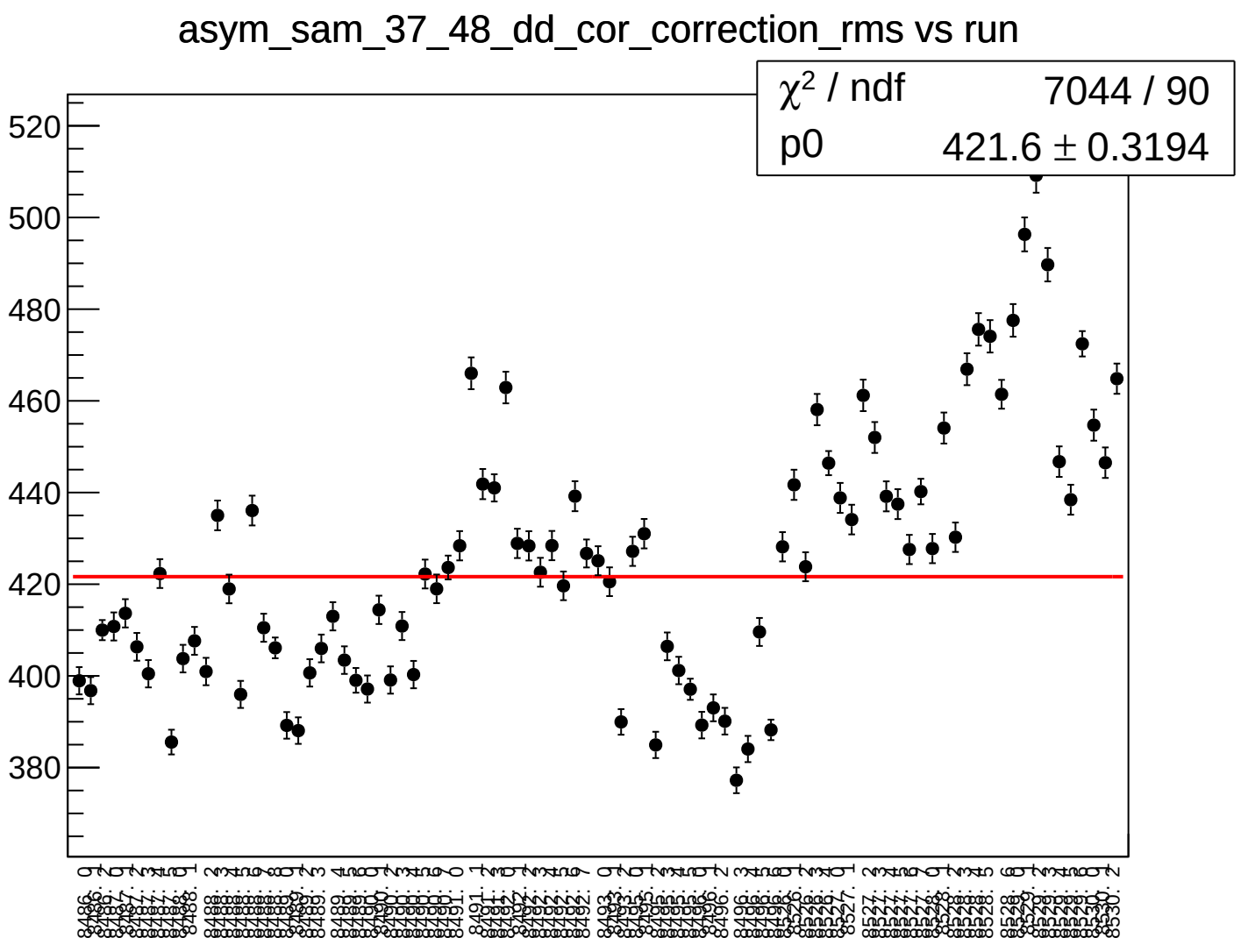

cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 100.5 / 90
p0 −27.39 ± 55.84
2000
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 91
Mean 492.9
Std Dev 0
2
1
0
−1
−2

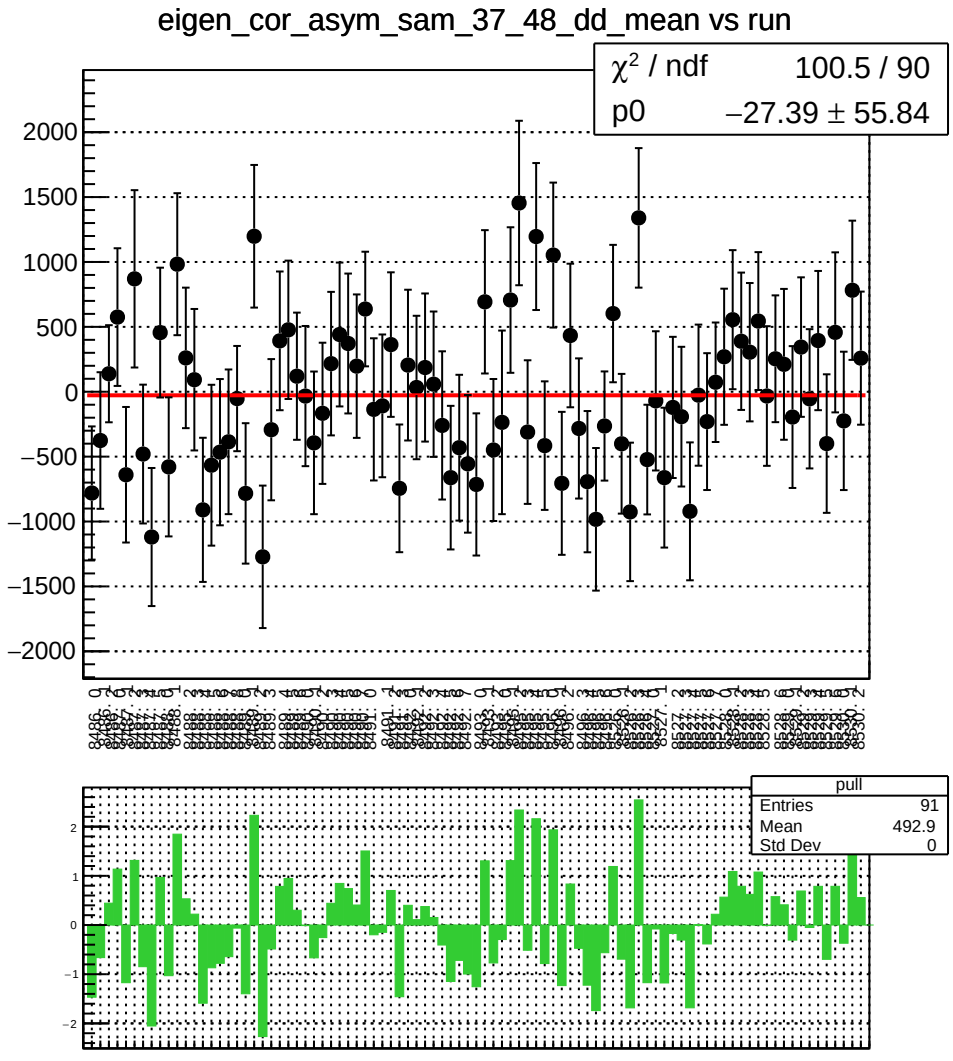

pull1D
Entries 91
Mean 0.008045
Std Dev 1.051
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

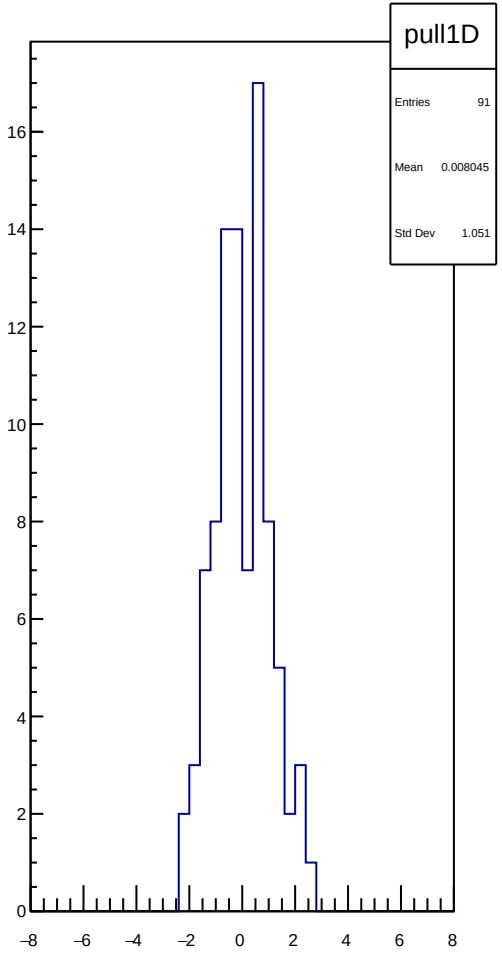

cor_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 6425 / 90
p0 52.12 ± 0.03948
75
70
65
60
55
50

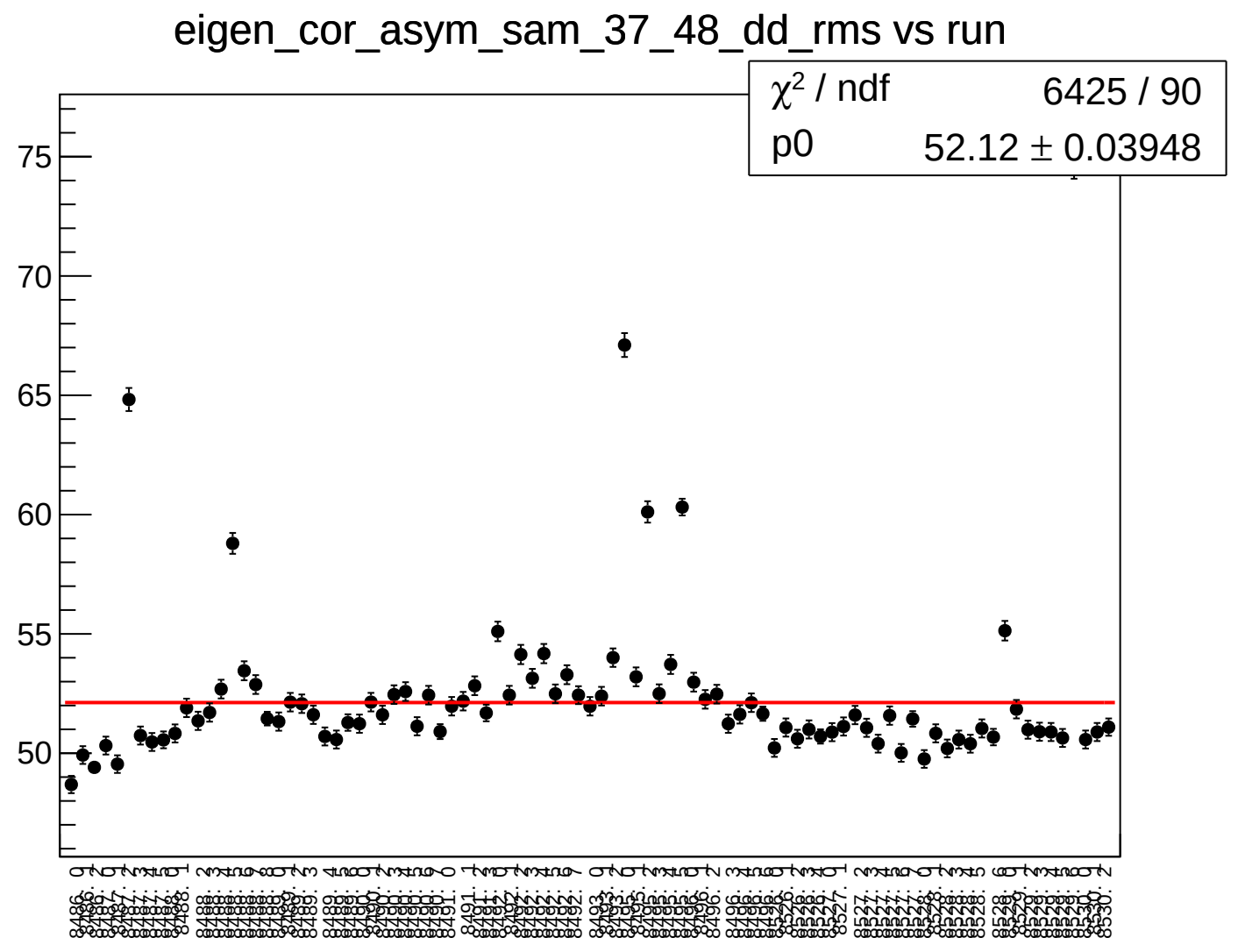

asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 75.68 / 90
p0 1822 ± 451.8
15000
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 239.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

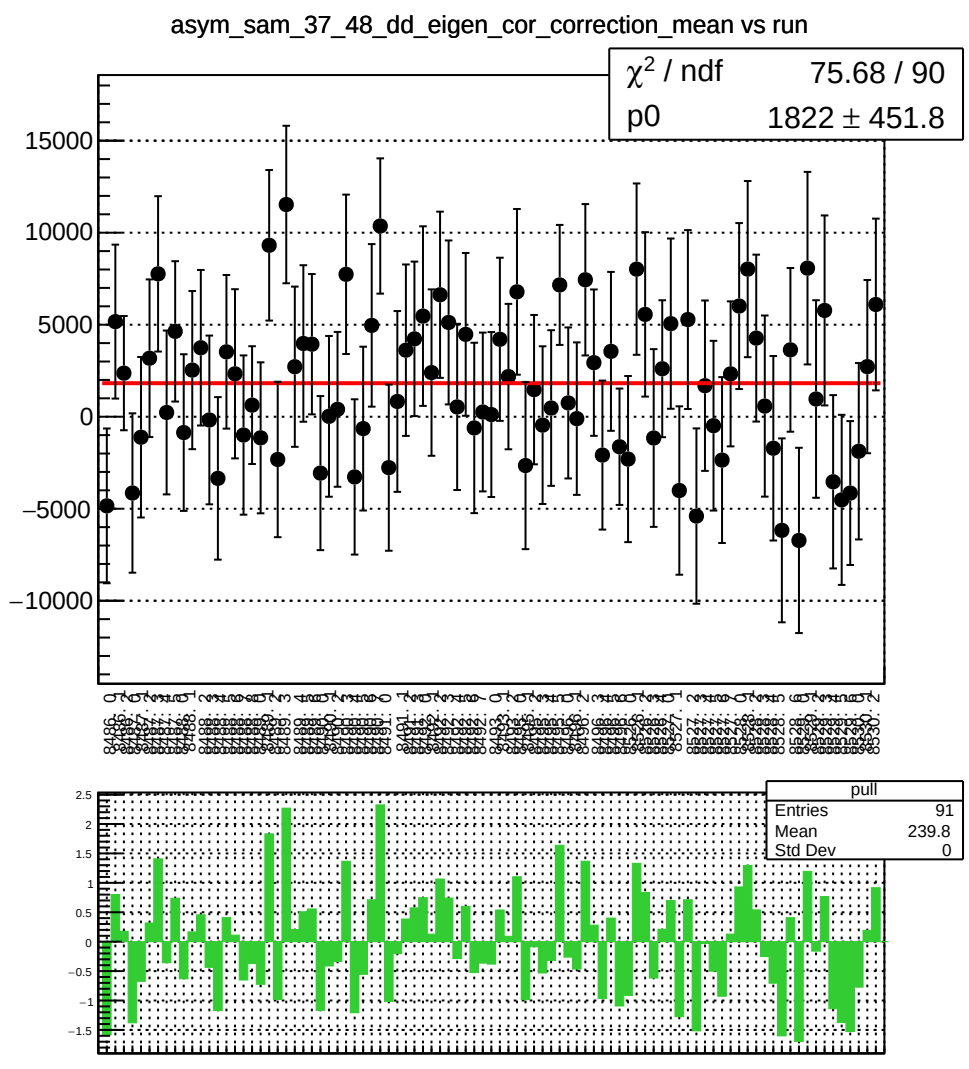

pull1D
Entries 91
Mean −0.01044
Std Dev 0.9119
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

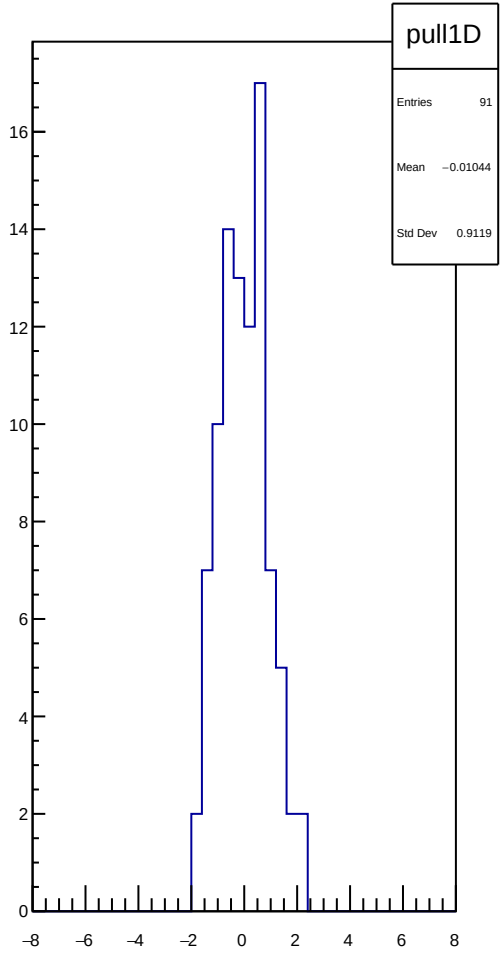

asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 7044 / 90
p0 421.6 ± 0.3194
520
500
480
460
440
420
400
380

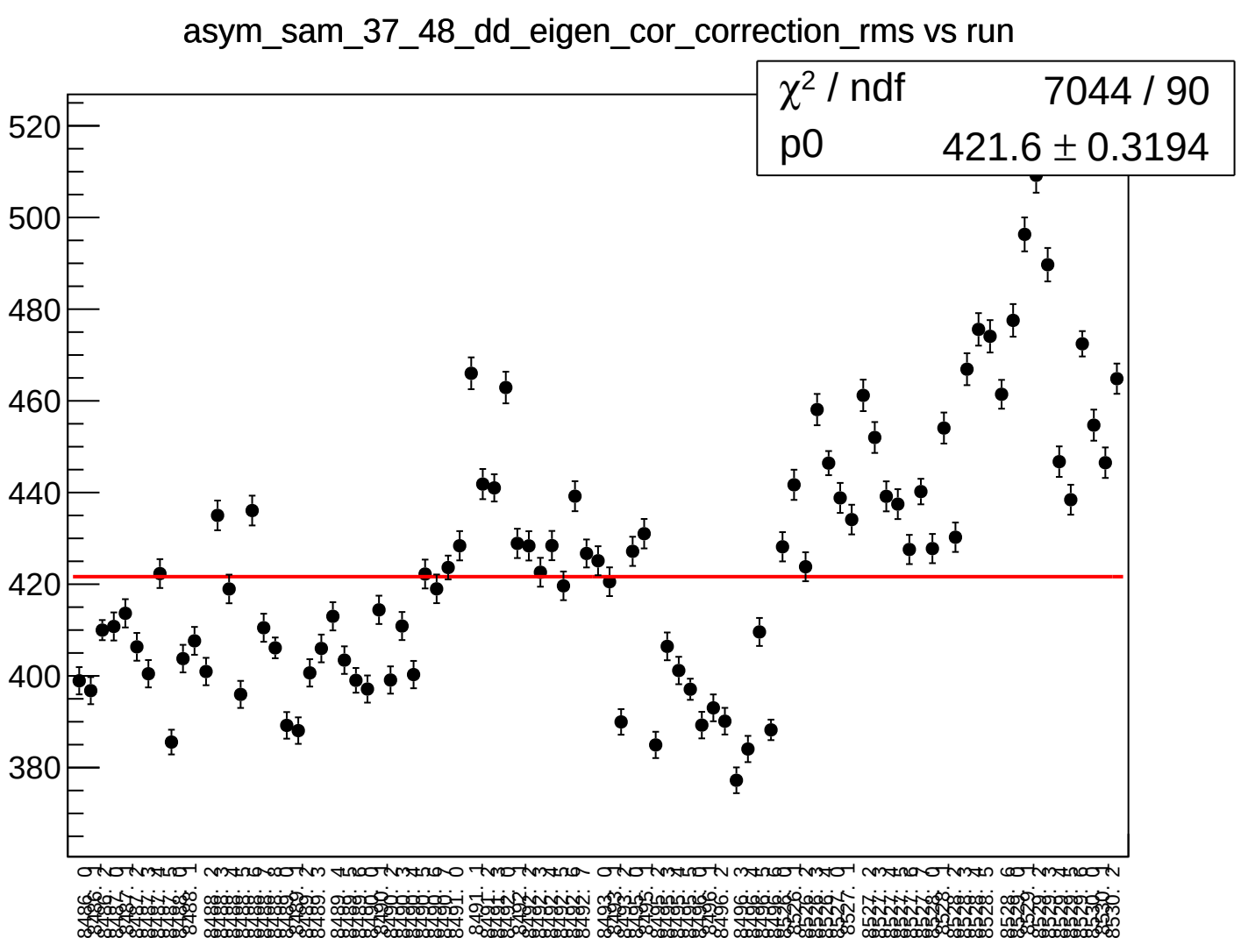

eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 100.5 / 90
p0 −27.39 ± 55.84
2000
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 91
Mean 492.9
Std Dev 0
2
1
0
−1
−2

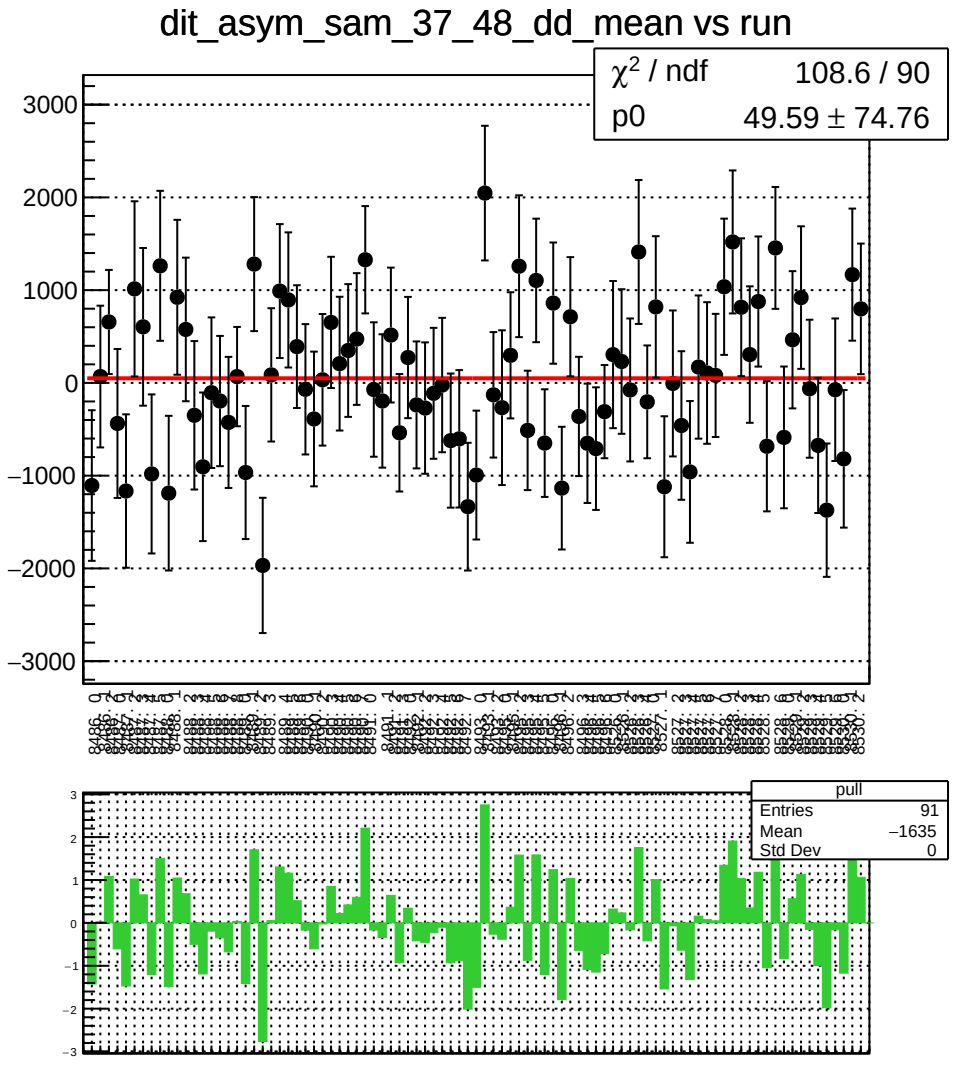

pull1D
Entries 91
Mean 0.008045
Std Dev 1.051
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

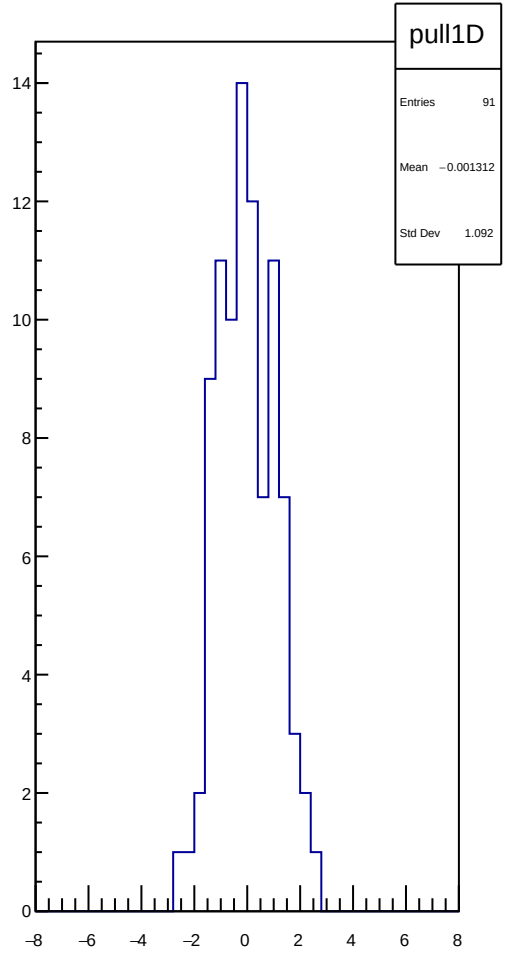

eigen_cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 6425 / 90
p0 52.12 ± 0.03948
75
70
65
60
55
50

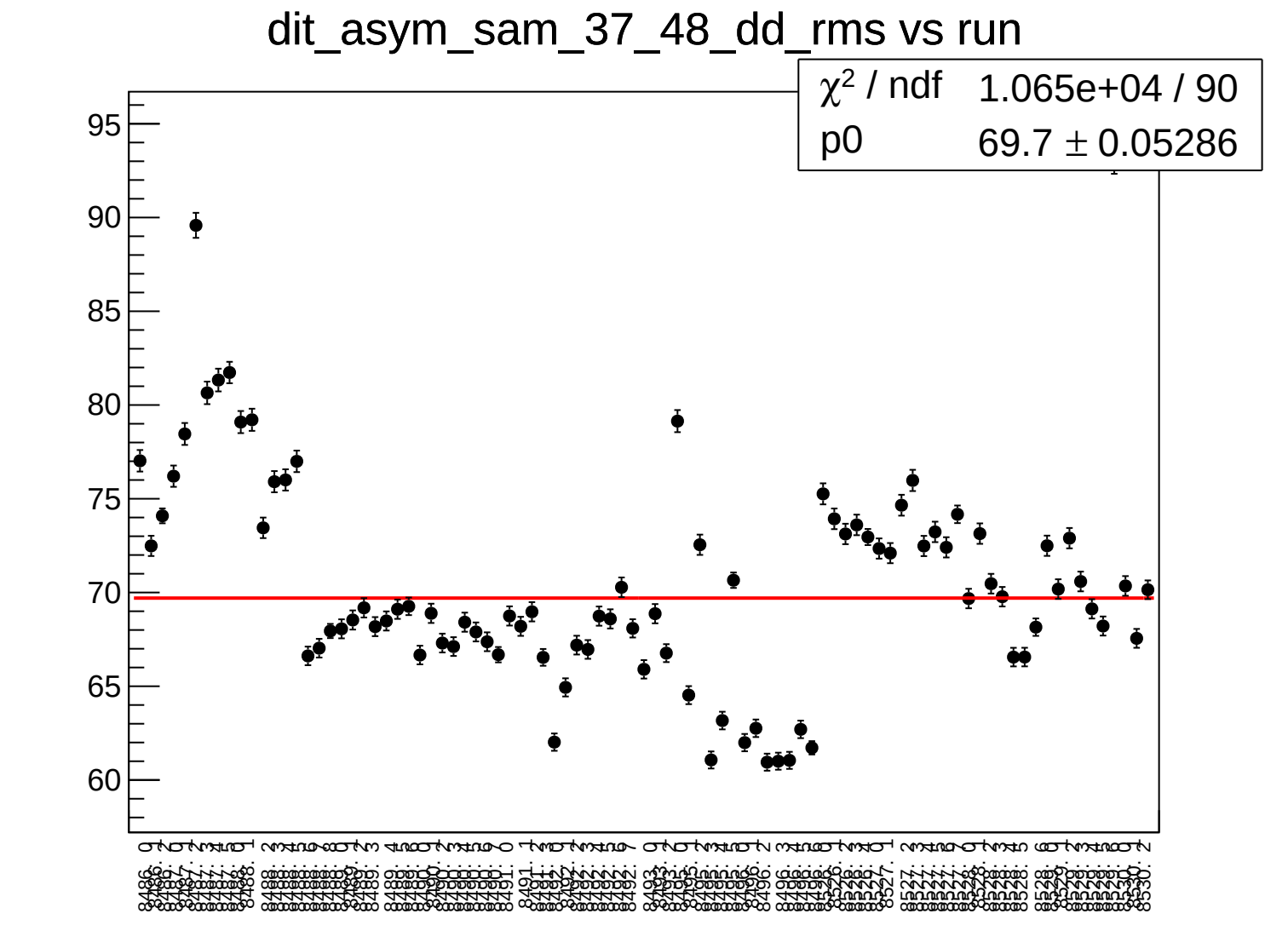

asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 75.68 / 90
p0 1822 ± 451.8
15000
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 239.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

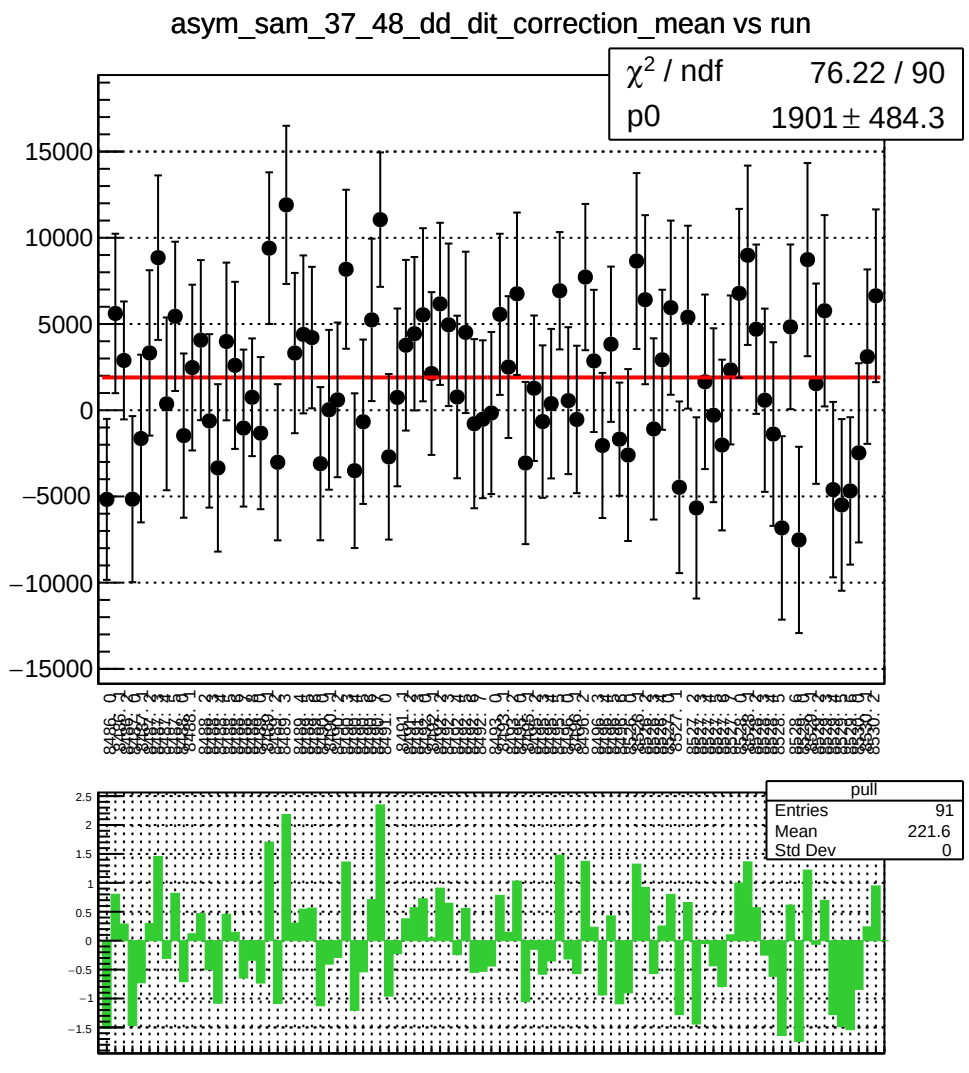

pull1D
Entries 91
Mean −0.01044
Std Dev 0.9119
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

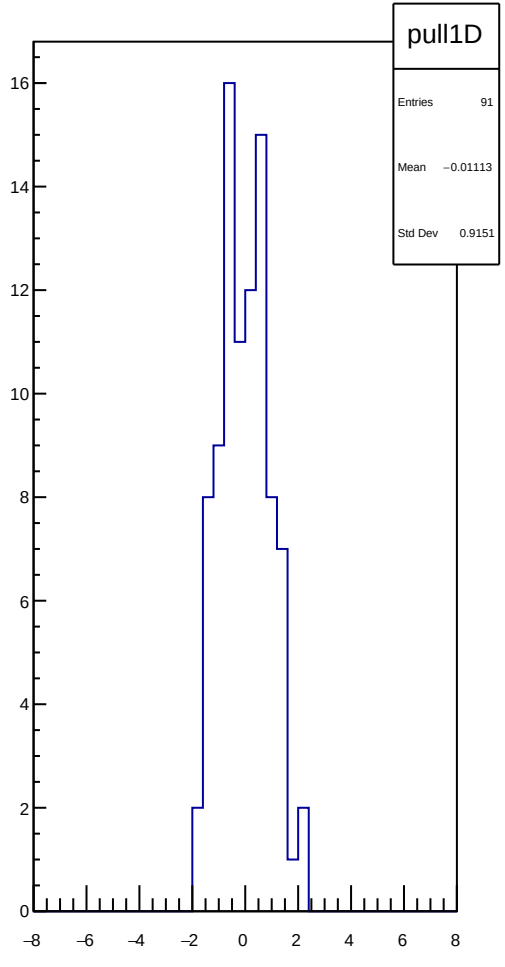

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 7044 / 90
p0 421.6 ± 0.3194
520
500
480
460
440
420
400
380

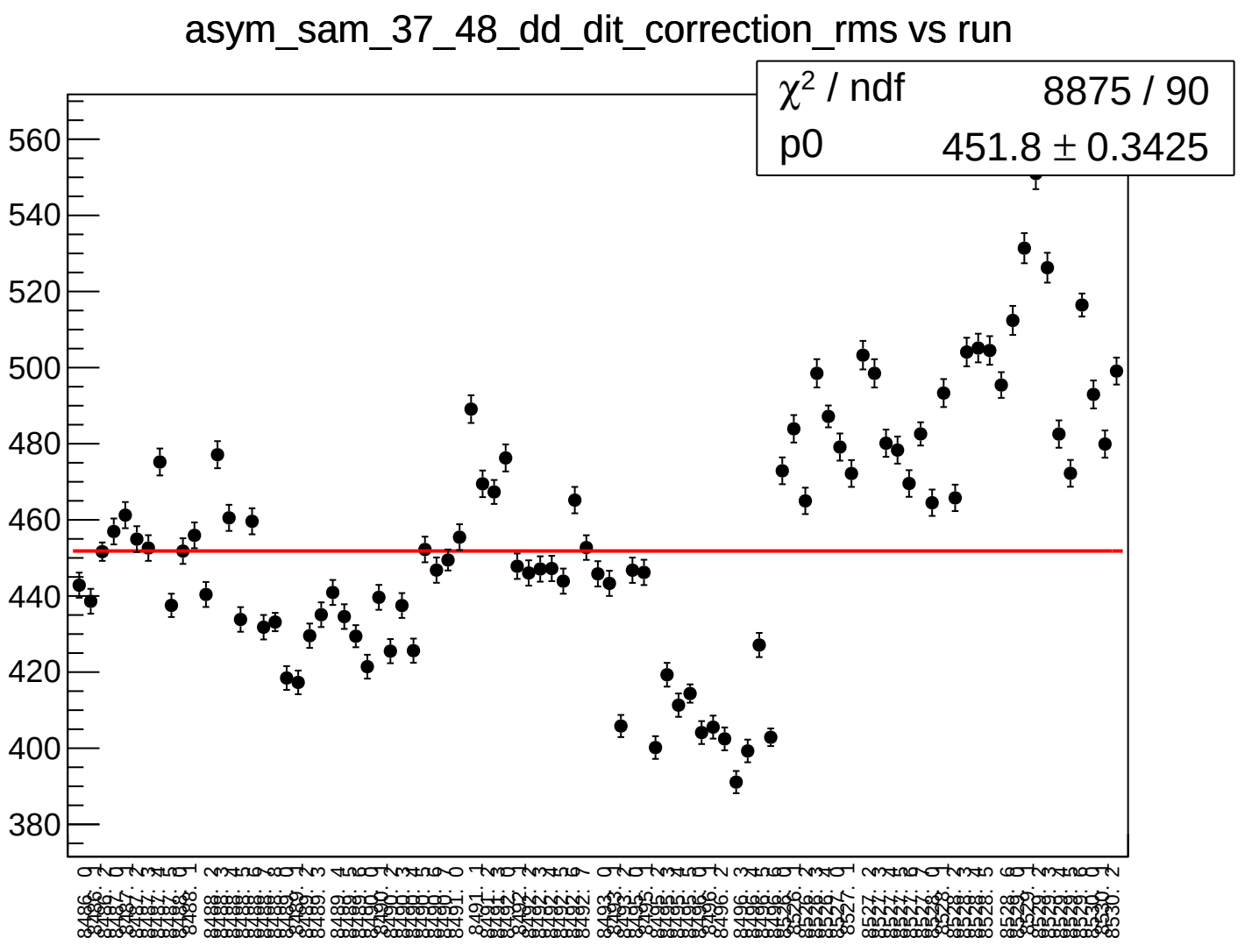

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 108.6 / 90
p0 49.59 ± 74.76
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 91
Mean −1635
Std Dev 0
3
2
1
0
−1
−2
−3

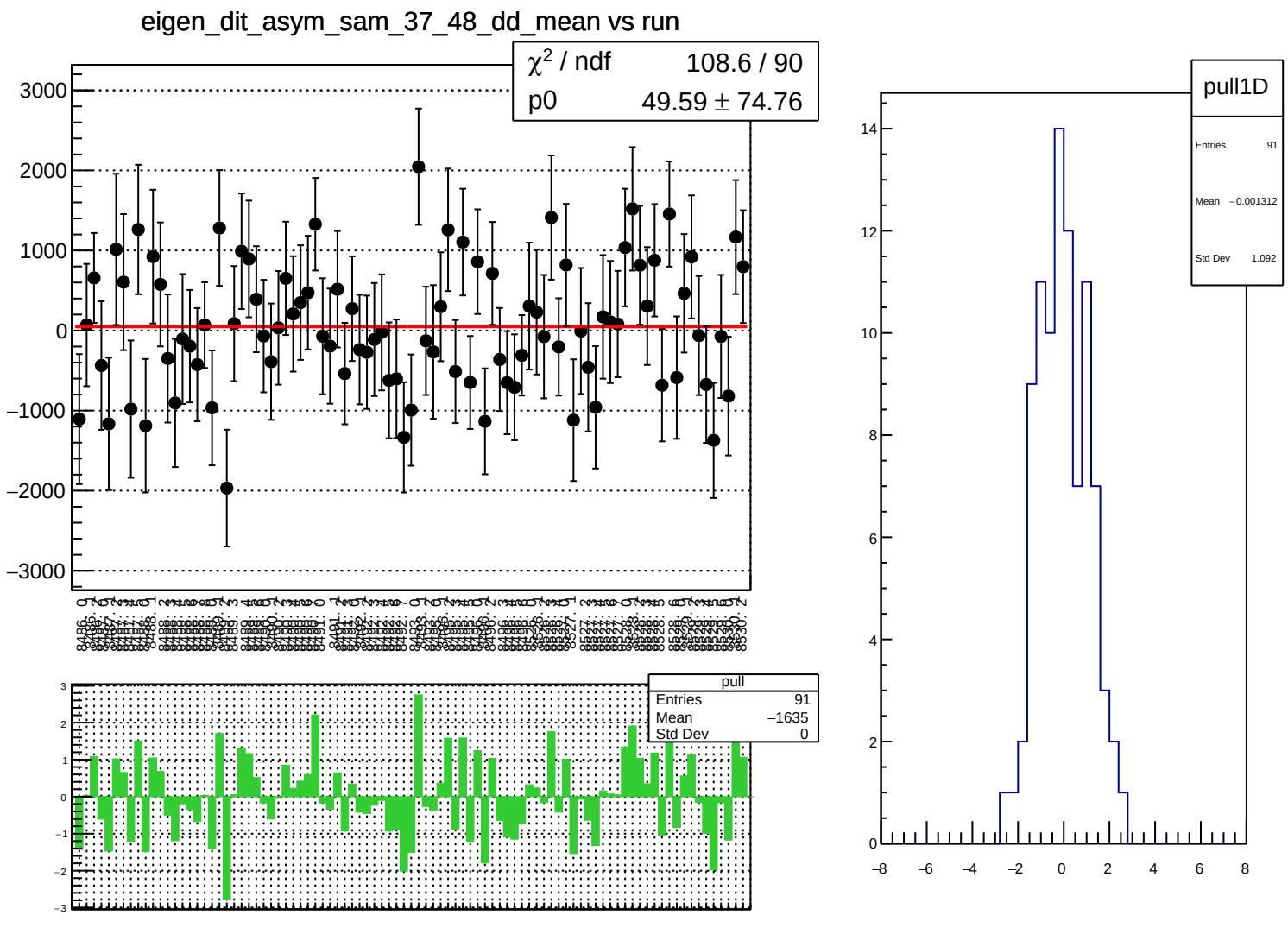

pull1D
Entries 91
Mean −0.001312
Std Dev 1.092
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

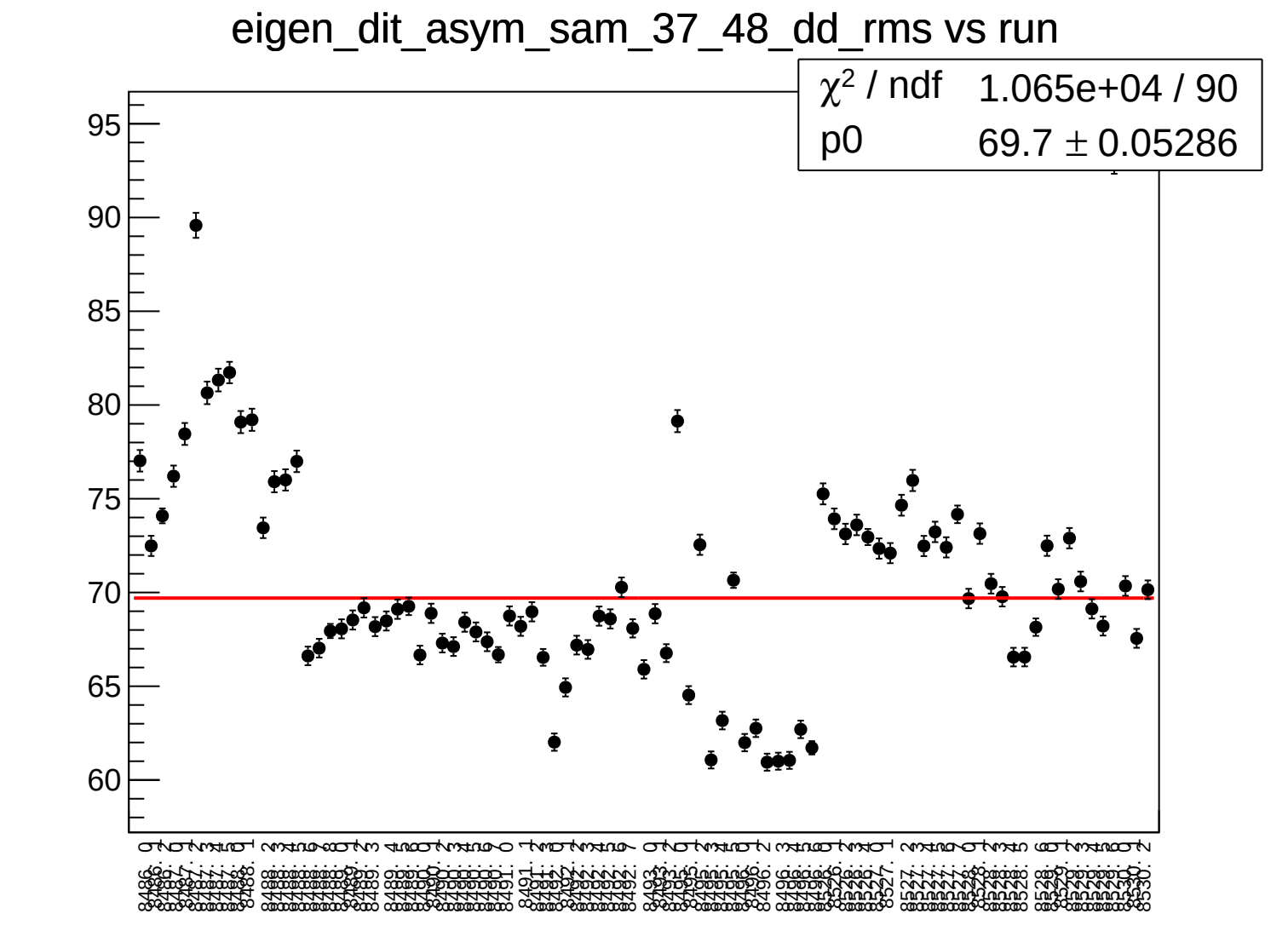

dit_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 1.065e+04 / 90
p0 69.7 ± 0.05286
95
90
85
80
75
70
65
60

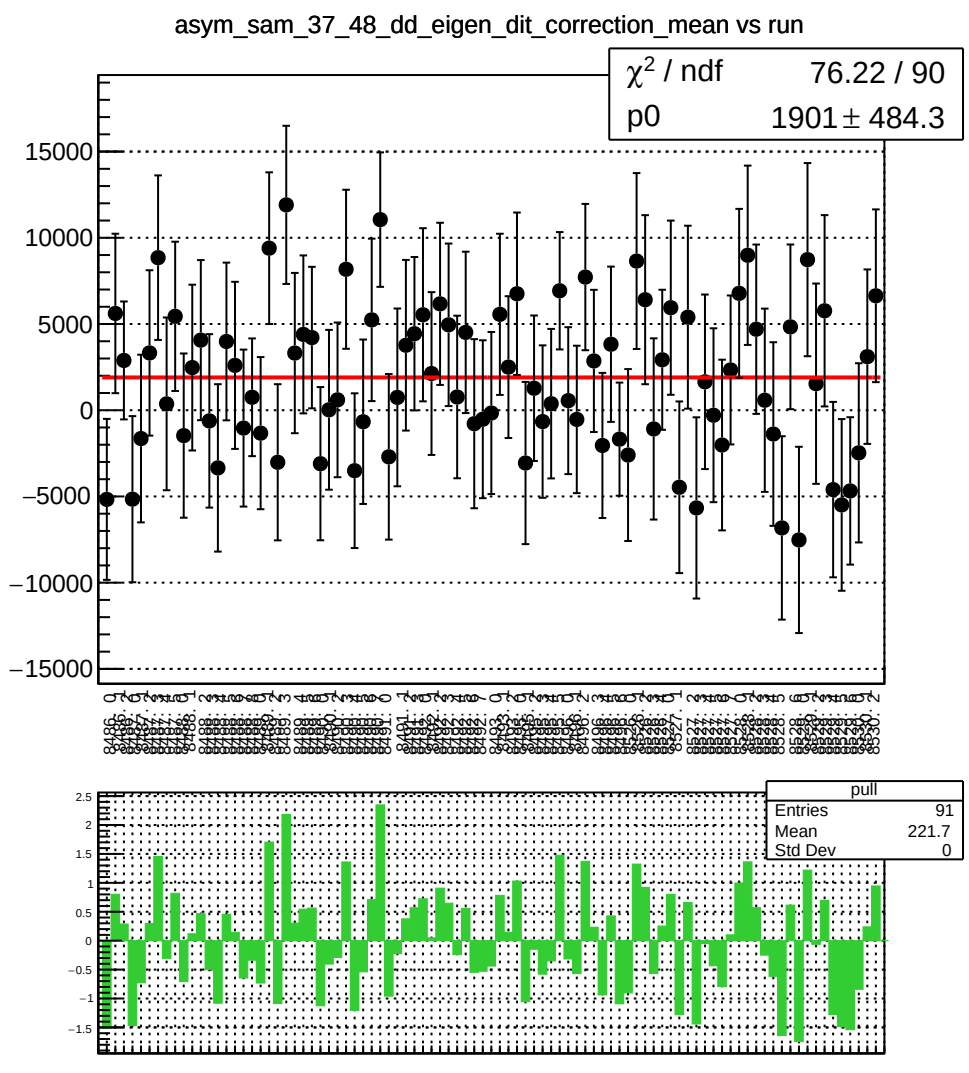

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 76.22 / 90
p0 1901 ± 484.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 221.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

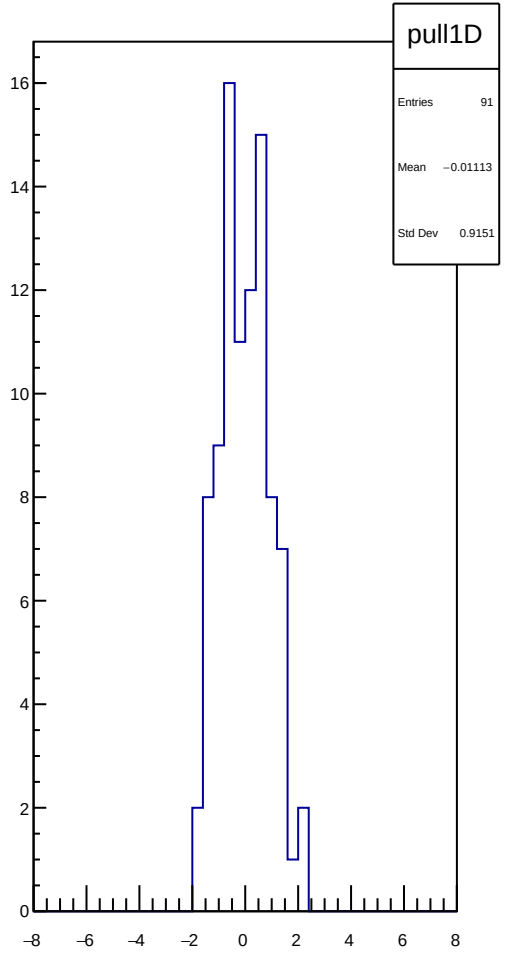

pull1D
Entries 91
Mean −0.01113
Std Dev 0.9151
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

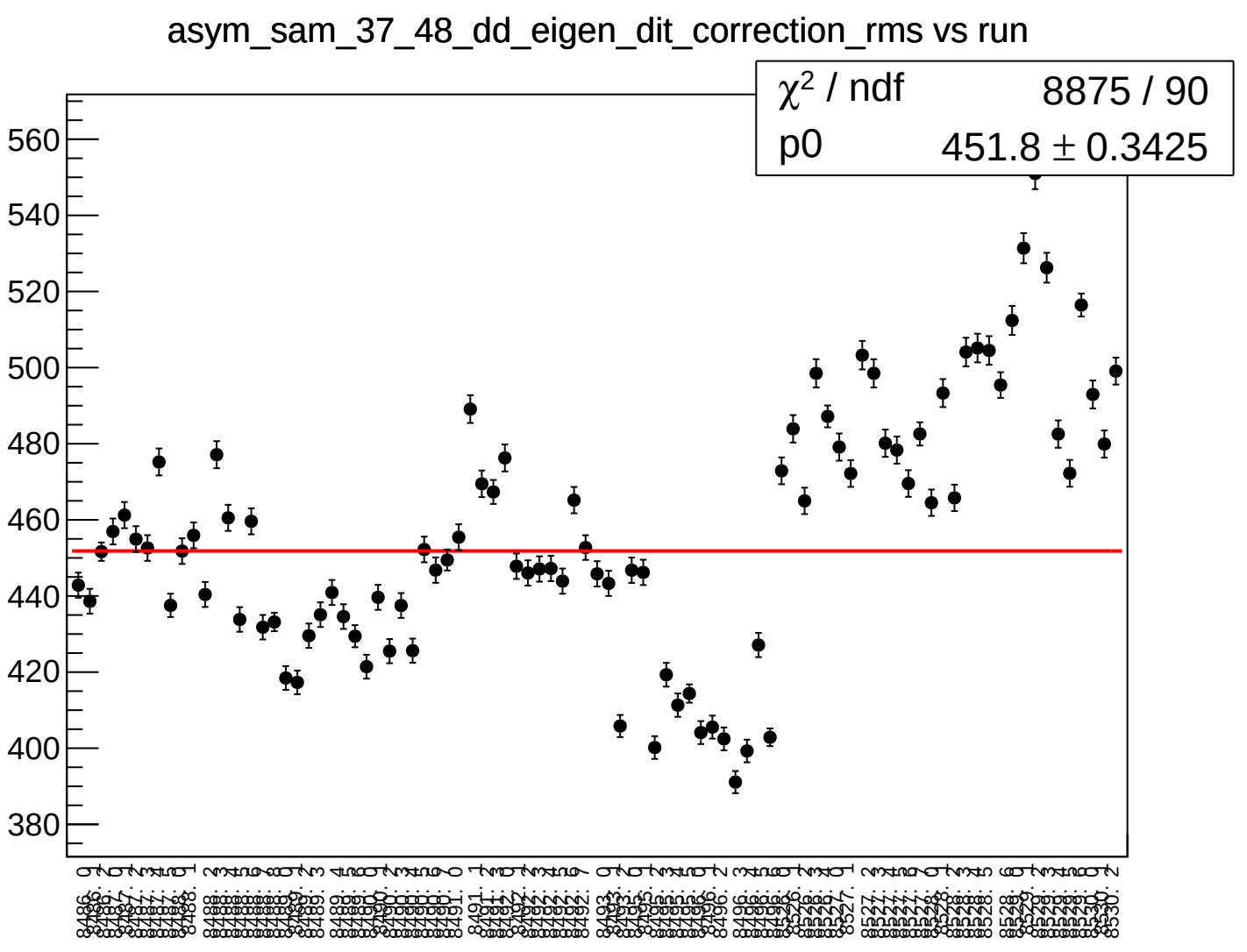

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 8875 / 90
p0 451.8 ± 0.3425
560
540
520
500
480
460
440
420
400
380

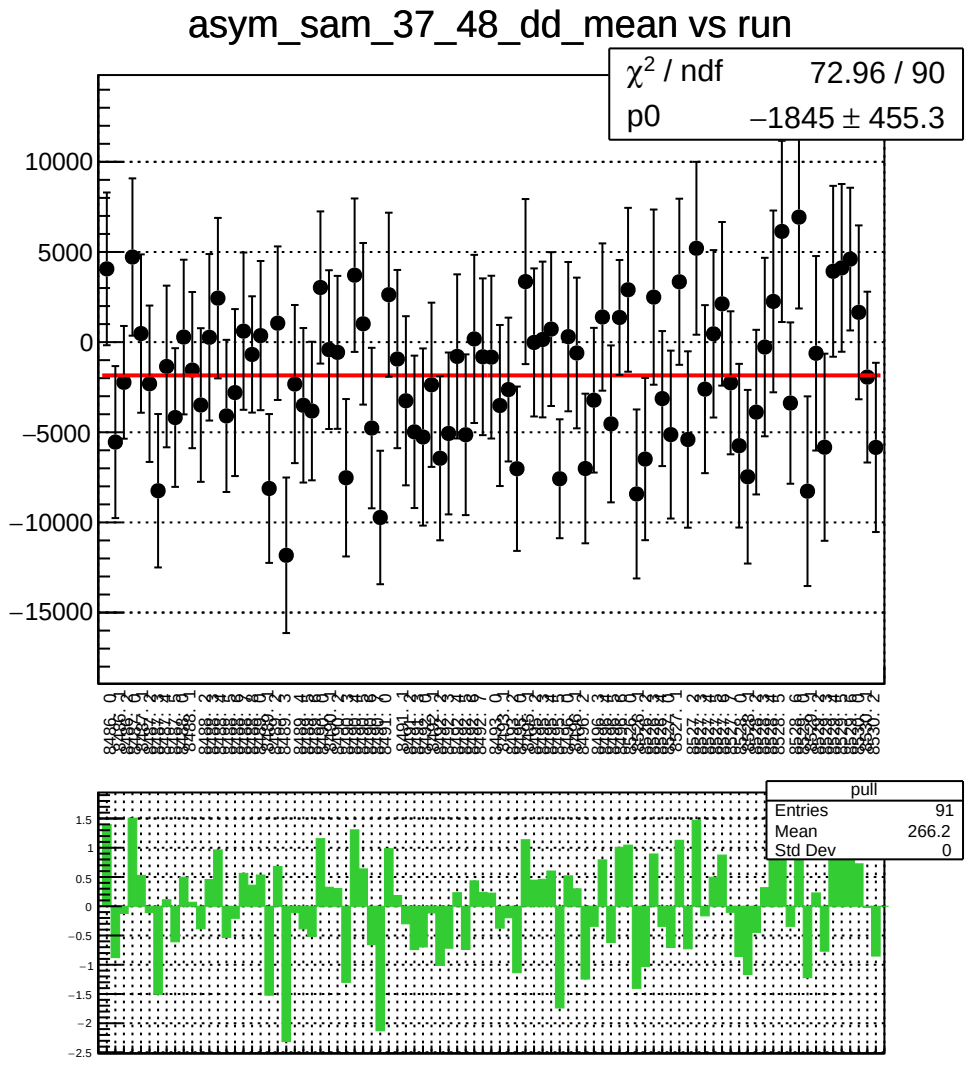

eigen_dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 108.6 / 90
p0 49.59 ± 74.76
pull
Entries 91
Mean −1635
Std Dev 0
pull1D
Entries 91
Mean −0.001312
Std Dev 1.092

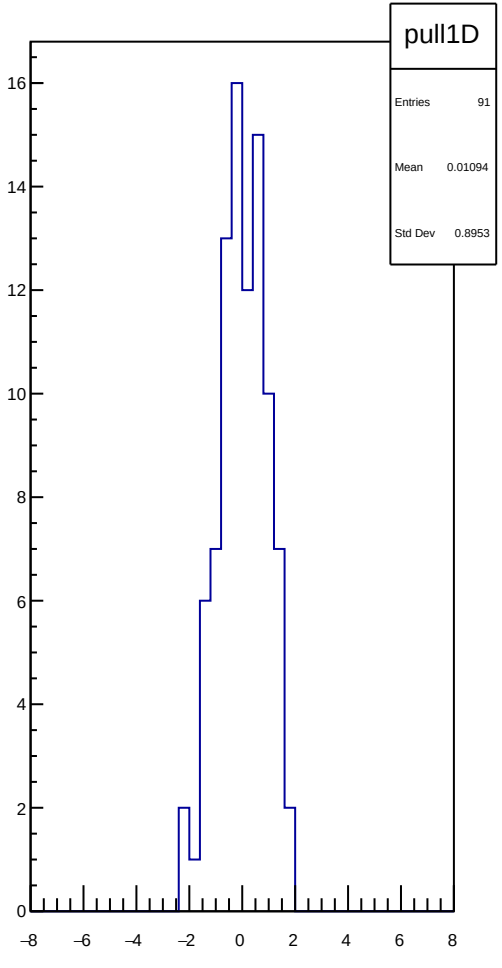

eigen_dit_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 1.065e+04 / 90
p0 69.7 ± 0.05286
95
90
85
80
75
70
65
60

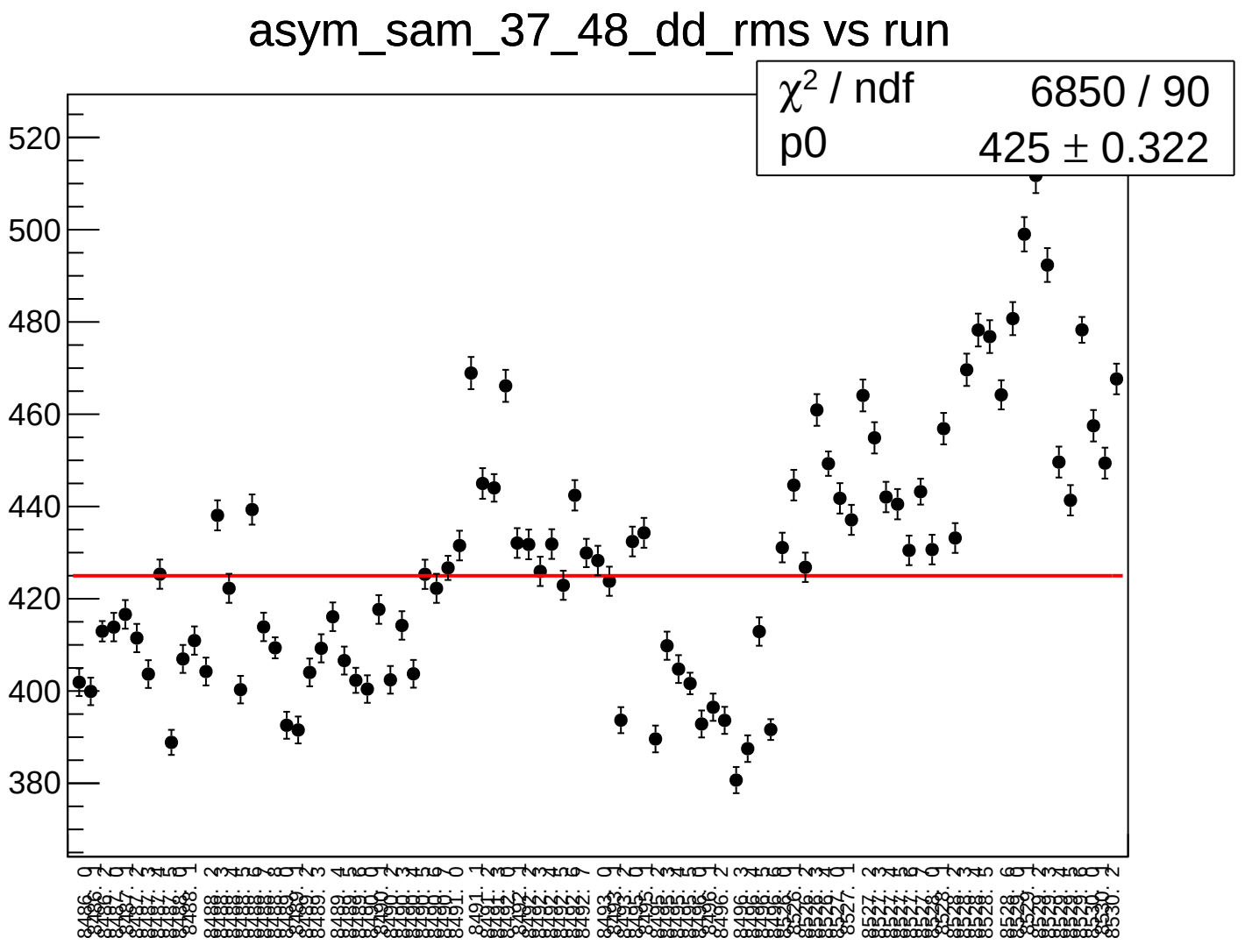

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 76.22 / 90
p0 1901 ± 484.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 221.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

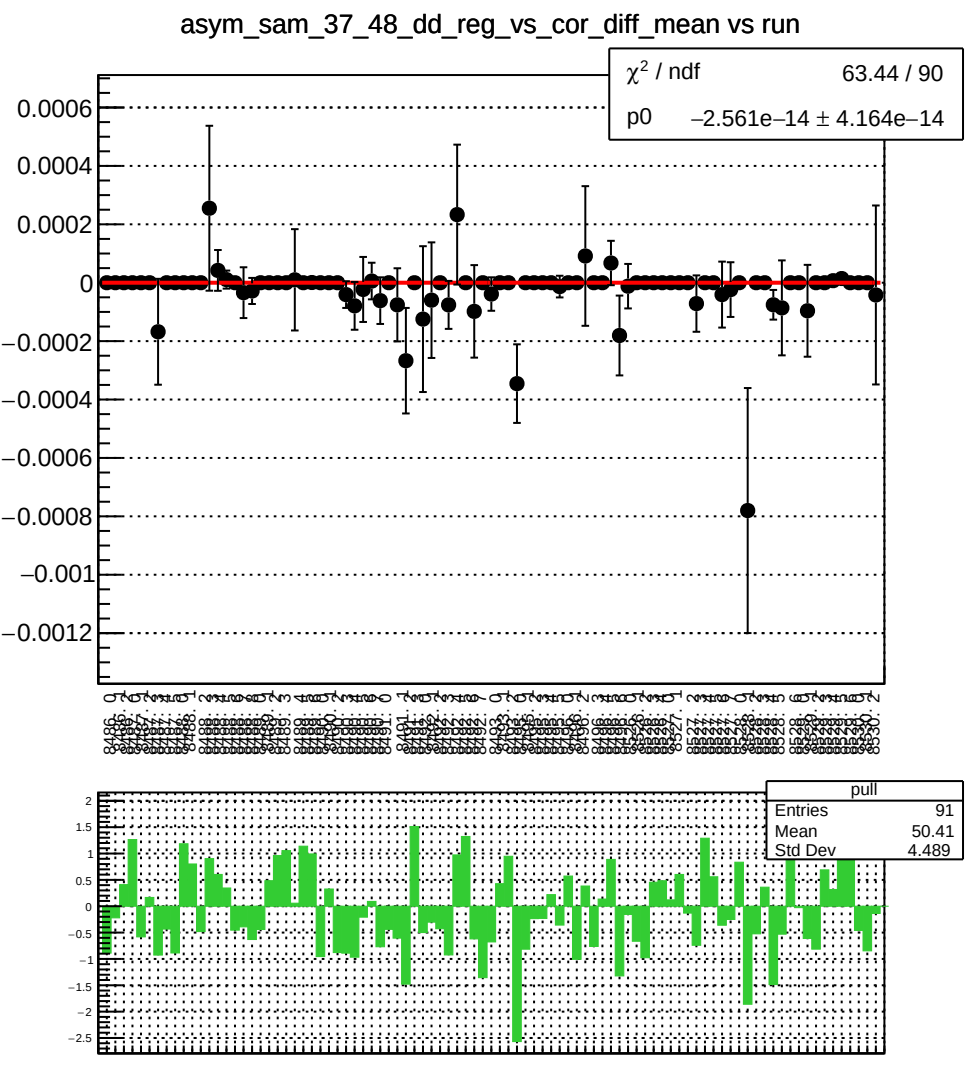

pull1D
Entries 91
Mean −0.01113
Std Dev 0.9151
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

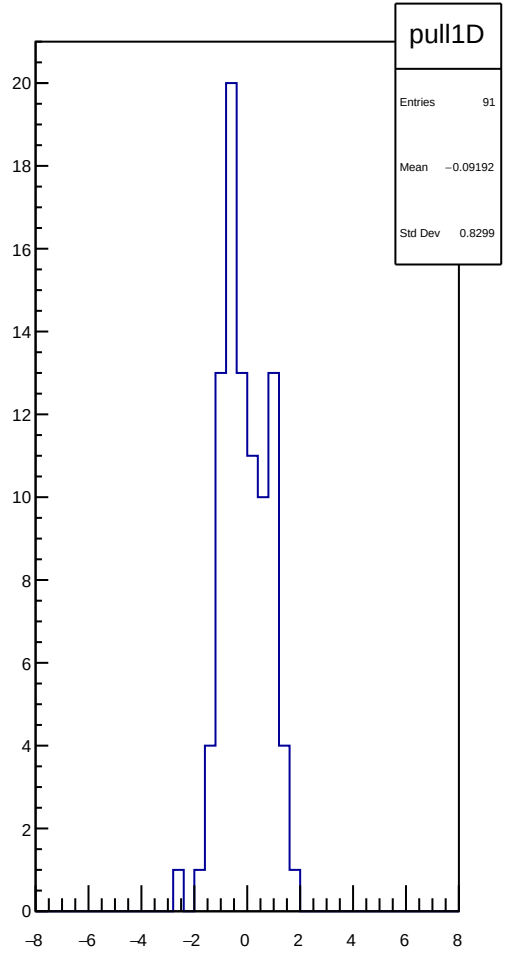

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 8875 / 90
p0 451.8 ± 0.3425
560
540
520
500
480
460
440
420
400
380

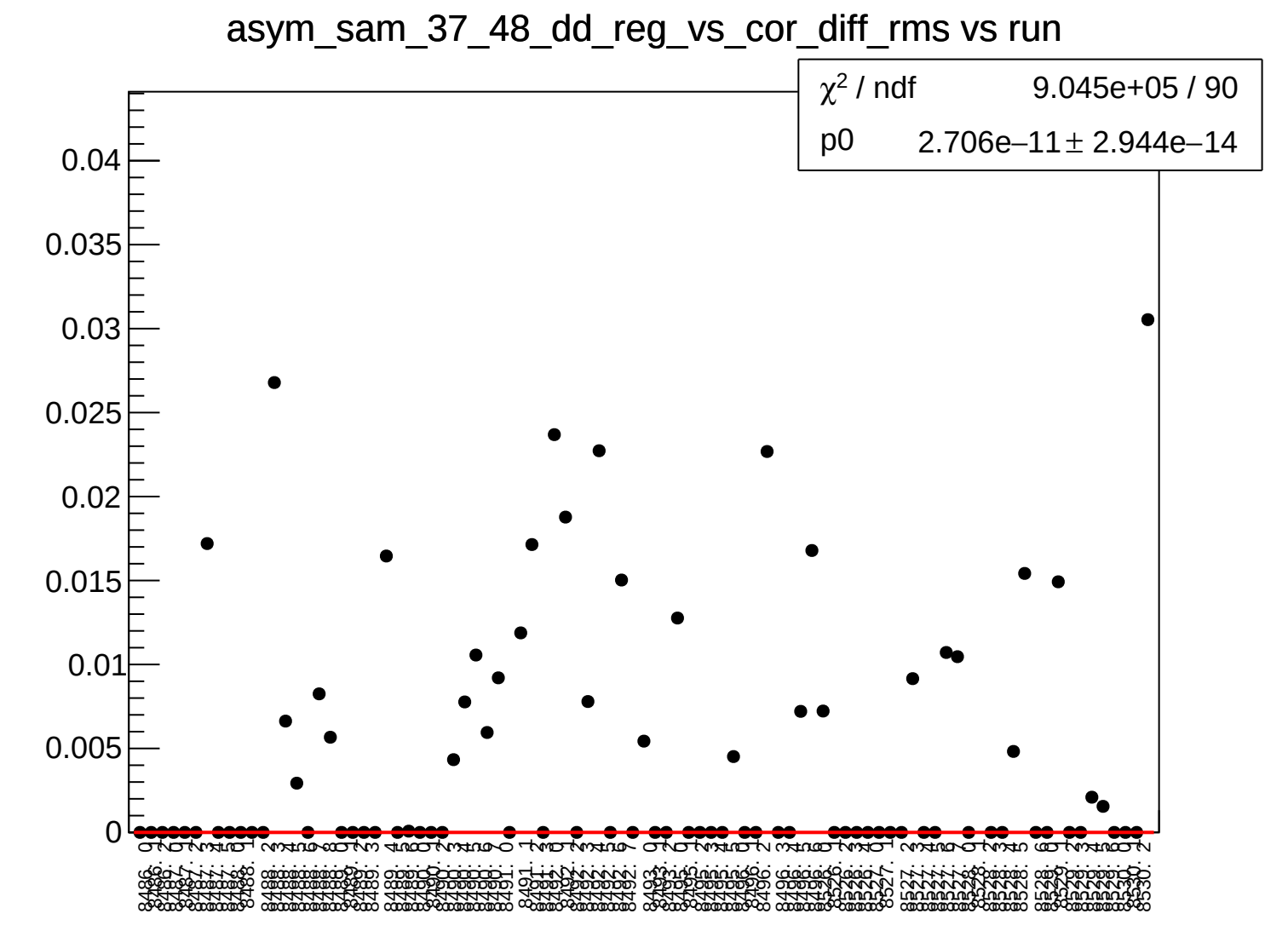

asym_sam_37_48_dd_mean vs run
χ² / ndf 72.96 / 90
p0 −1845 ± 455.3
pull
Entries 91
Mean 266.2
Std Dev 0

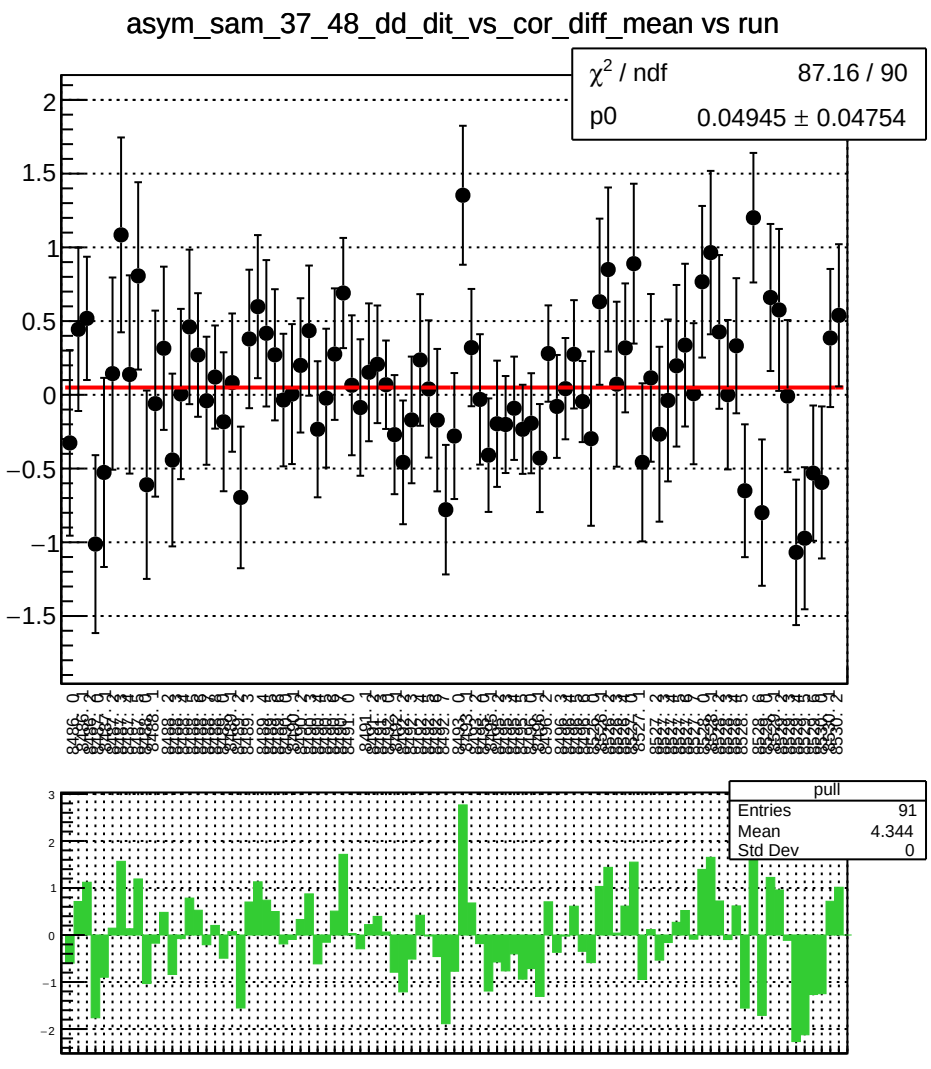

pull1D
Entries 91
Mean 0.01094
Std Dev 0.8953

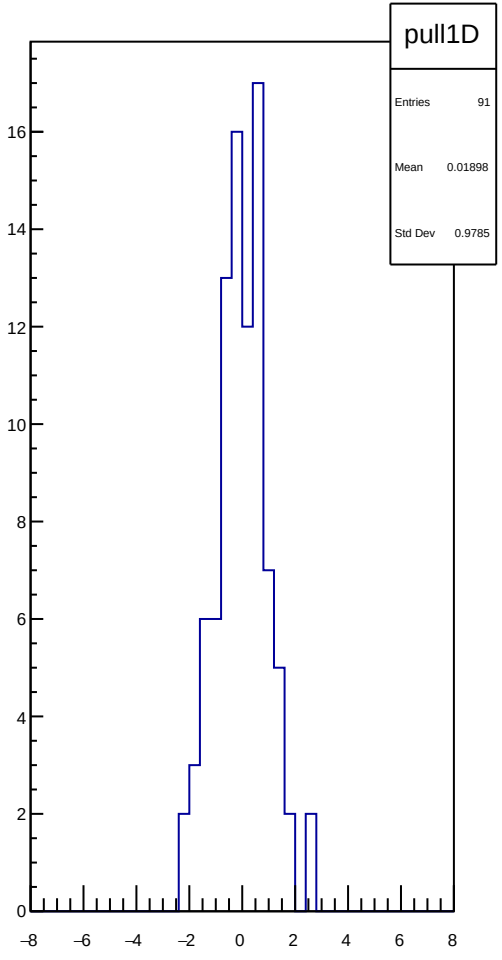

asym_sam_37_48_dd_rms vs run
χ^2 / ndf 6850 / 90
p0 425 ± 0.322
520
500
480
460
440
420
400
380

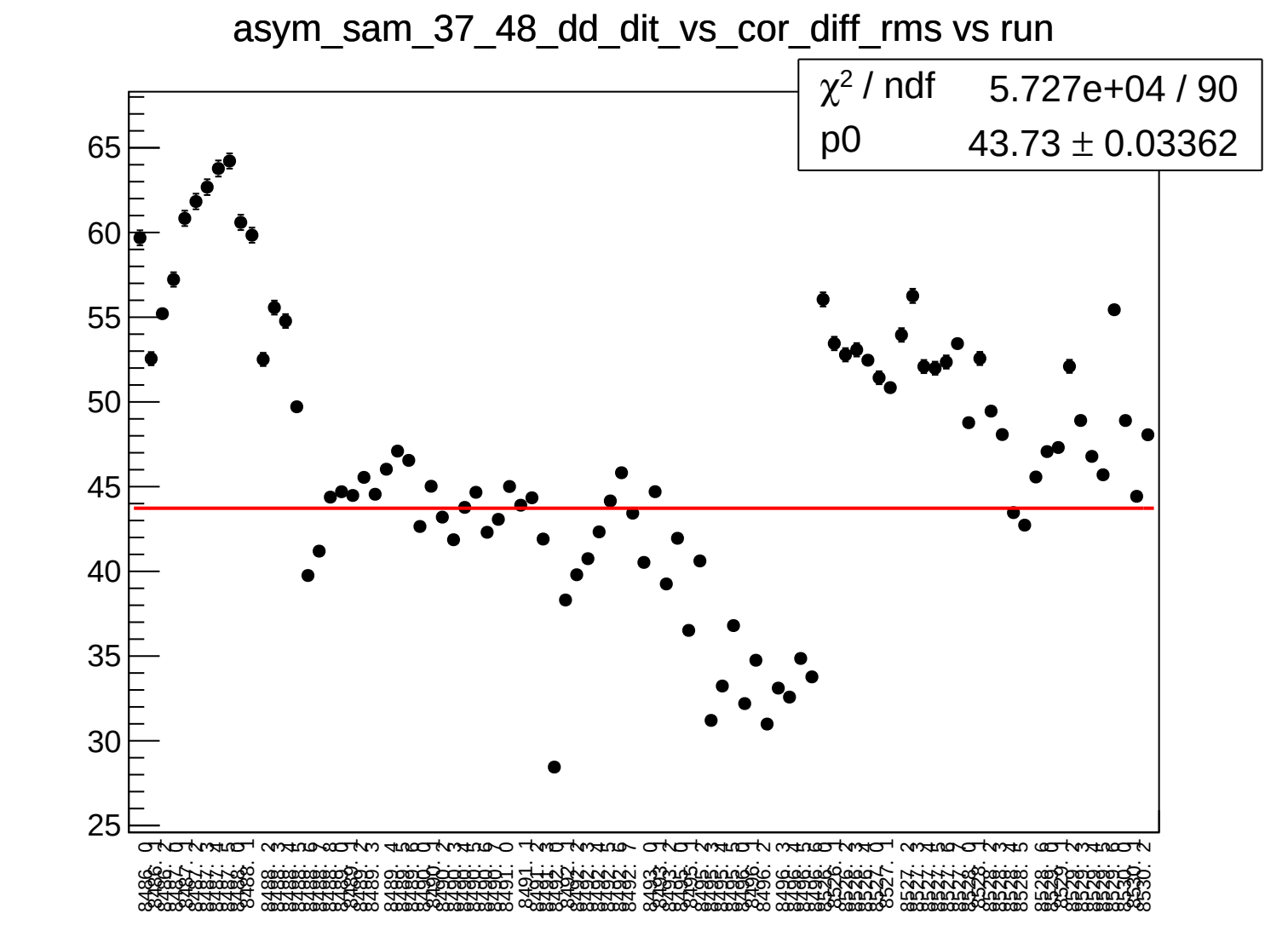

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 63.44 / 90
p0 −2.561e−14 ± 4.164e−14
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
pull
Entries 91
Mean 50.41
Std Dev 4.489
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

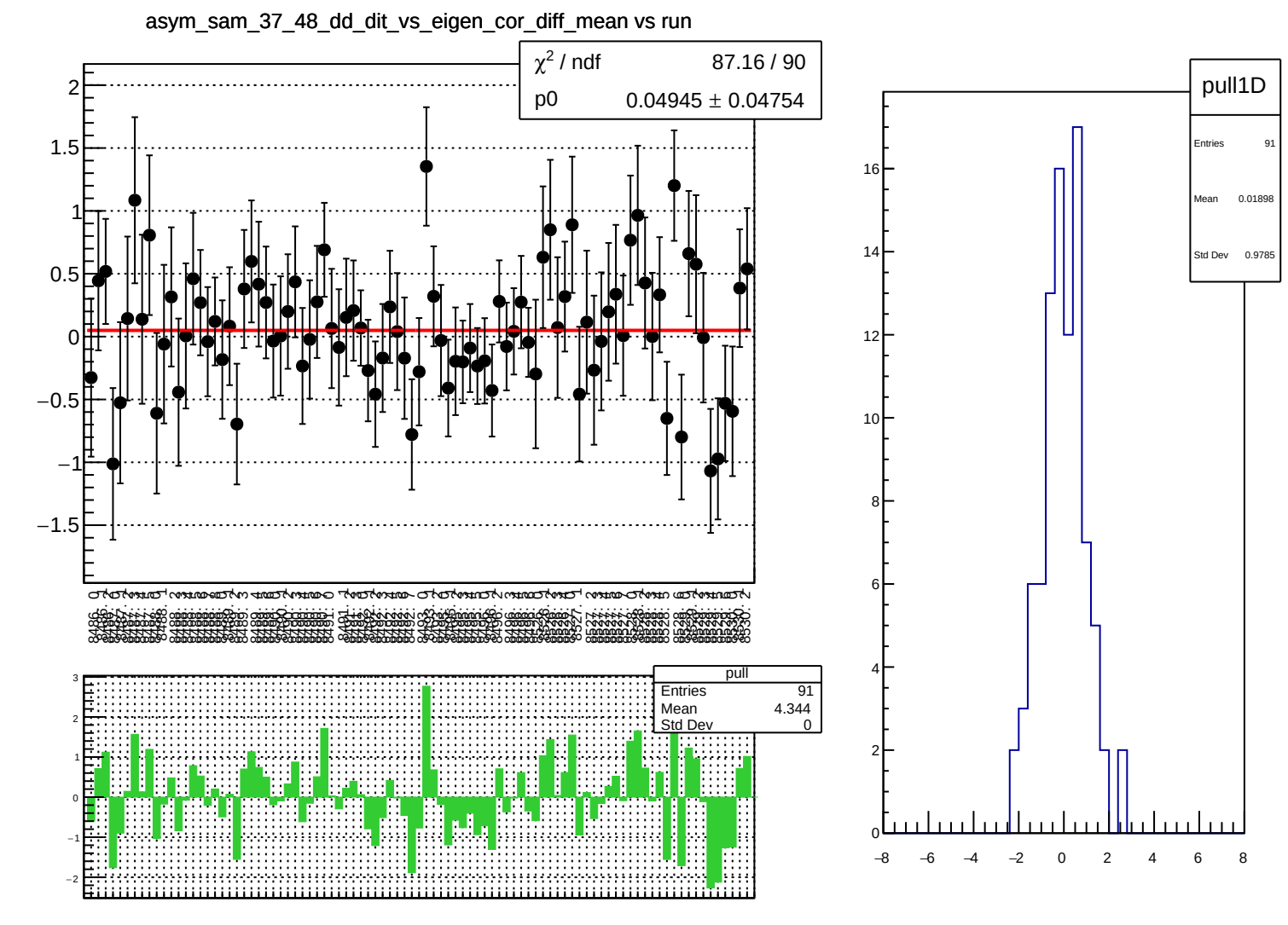

pull1D
Entries 91
Mean −0.09192
Std Dev 0.8299
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

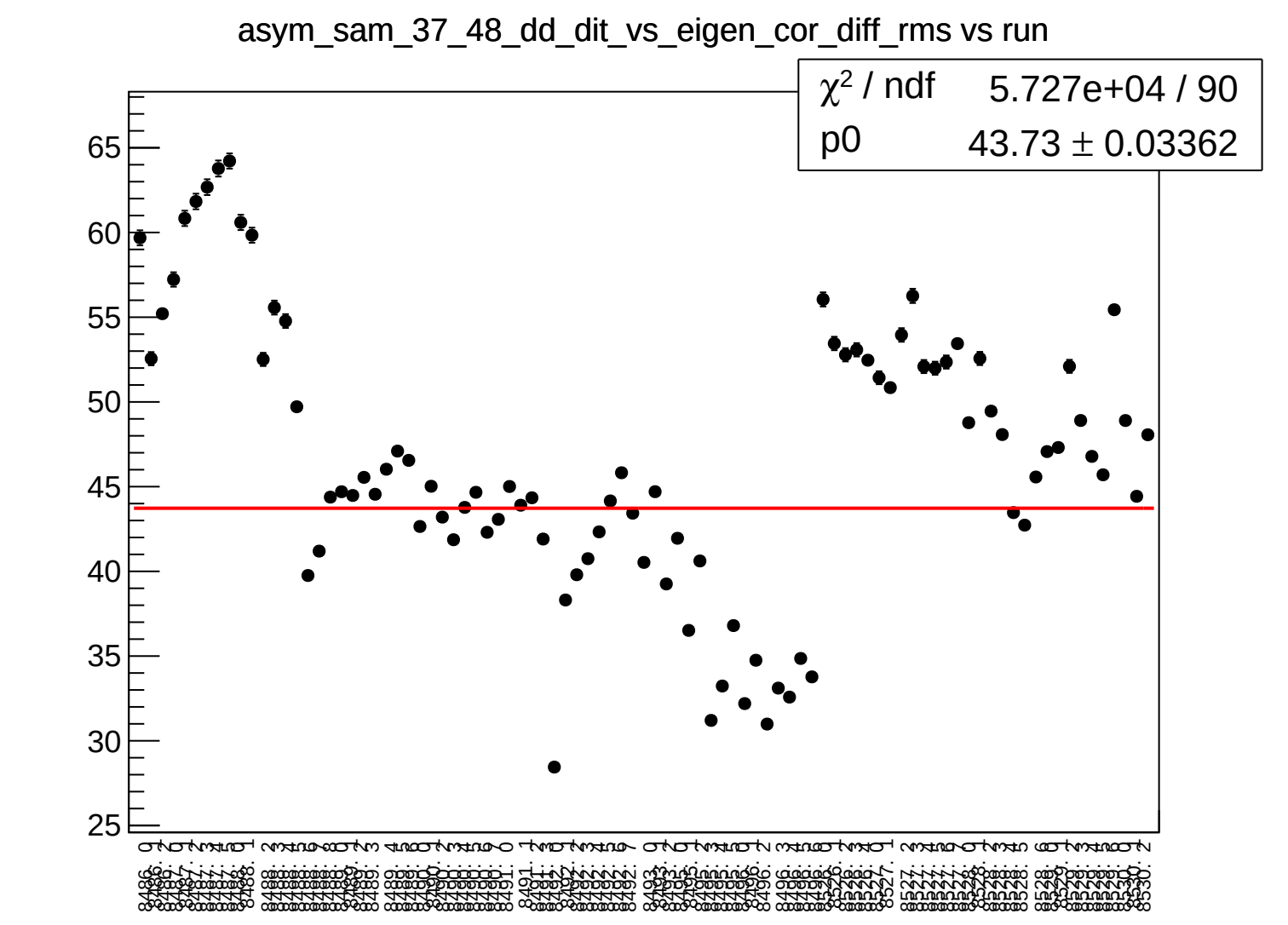

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.045e+05 / 90
p0 2.706e−11 ± 2.944e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

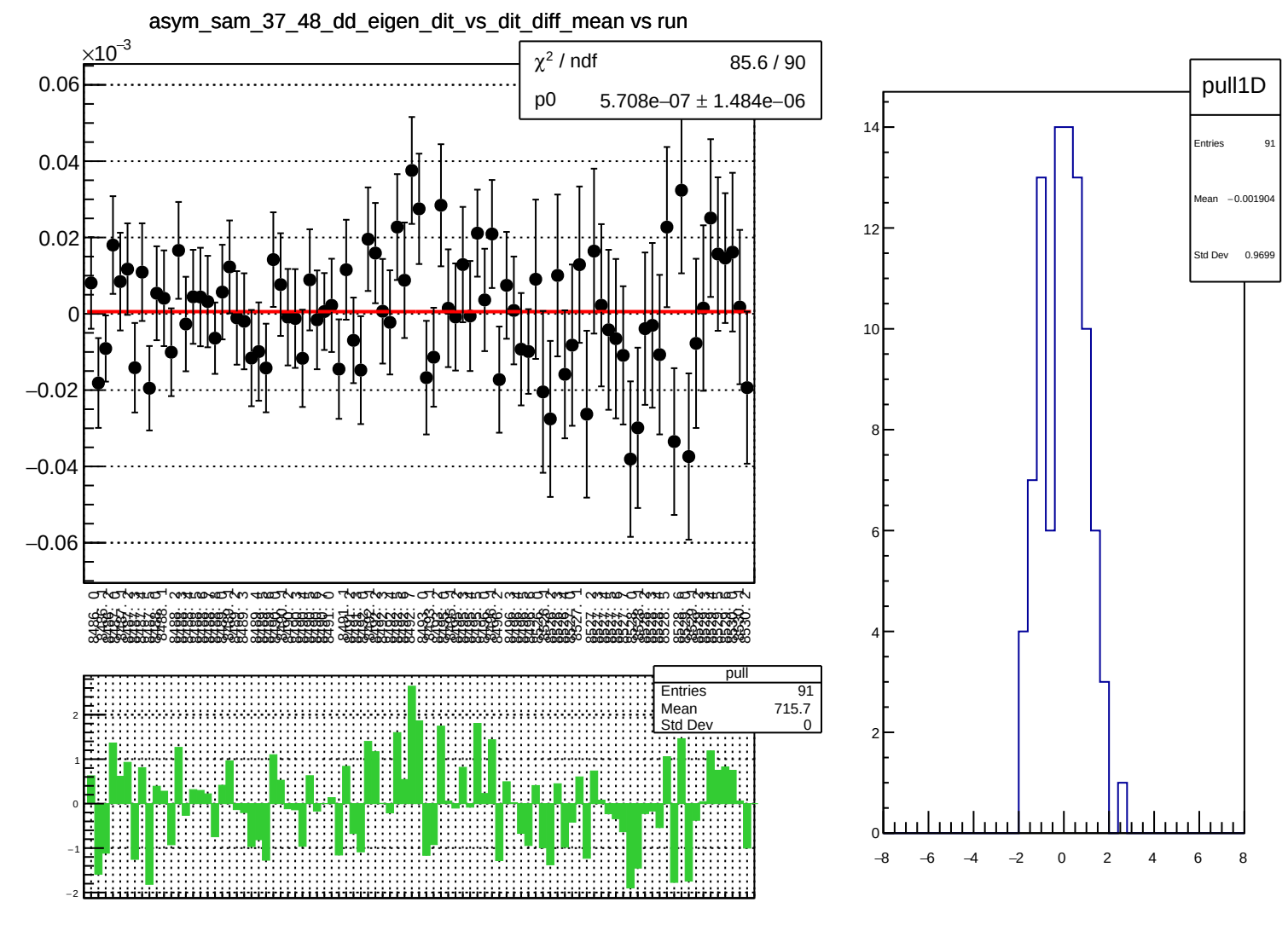

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.16 / 90
p0 0.04945 ± 0.04754
pull
Entries 91
Mean 4.344
Std Dev 0

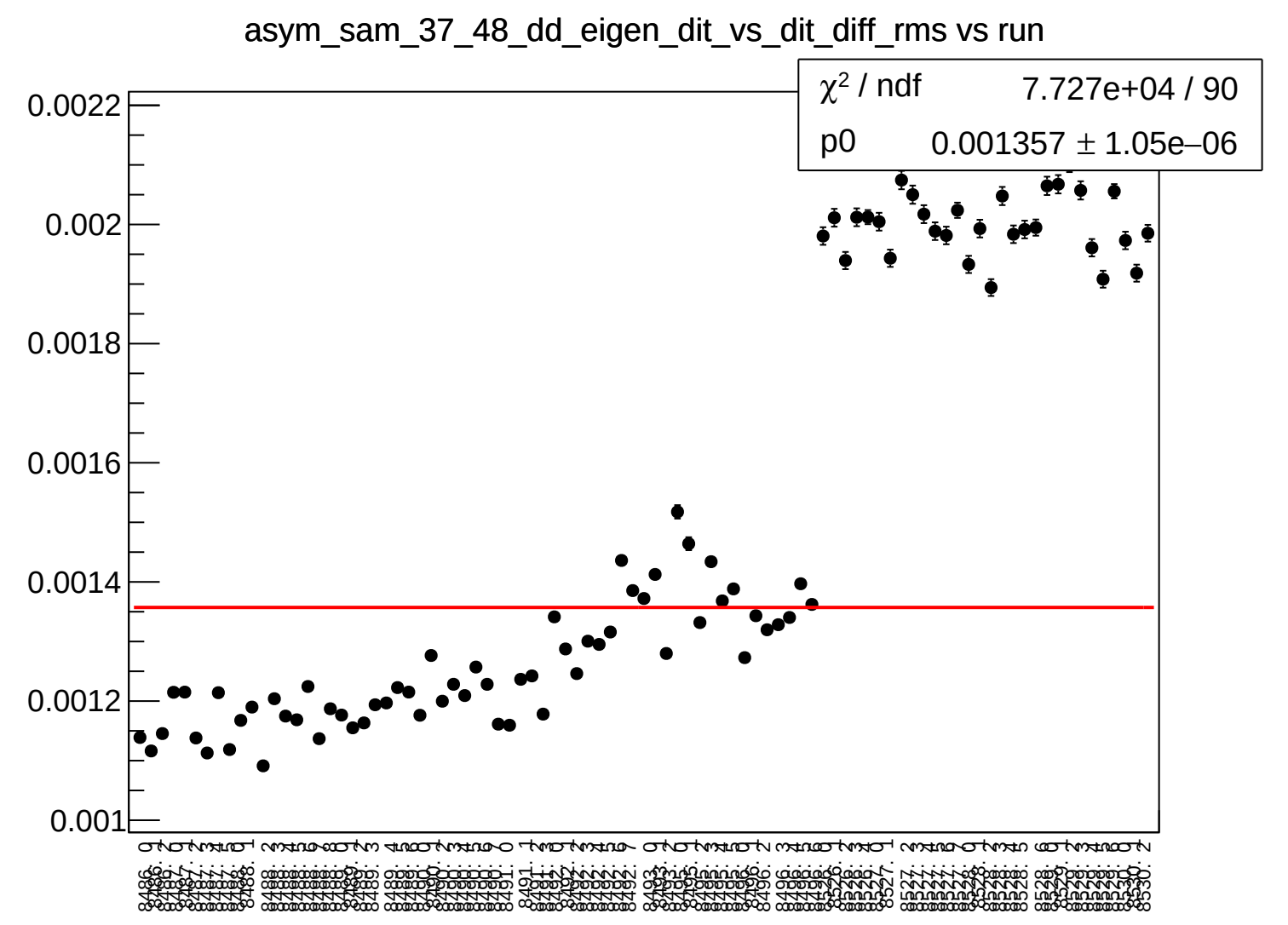

pull1D
Entries 91
Mean 0.01898
Std Dev 0.9785

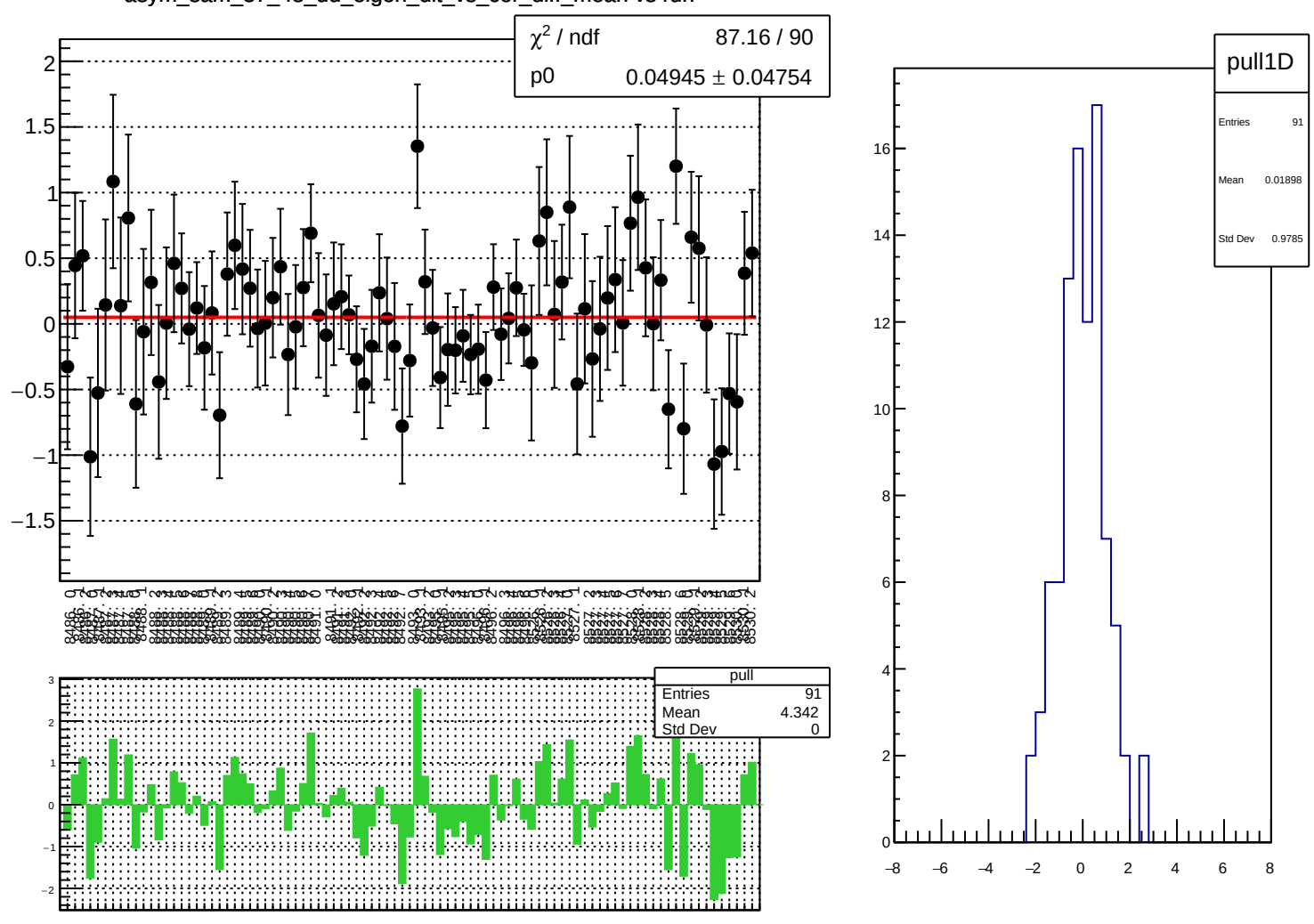

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.727e+04 / 90
p0 43.73 ± 0.03362
65
60
55
50
45
40
35
30
25

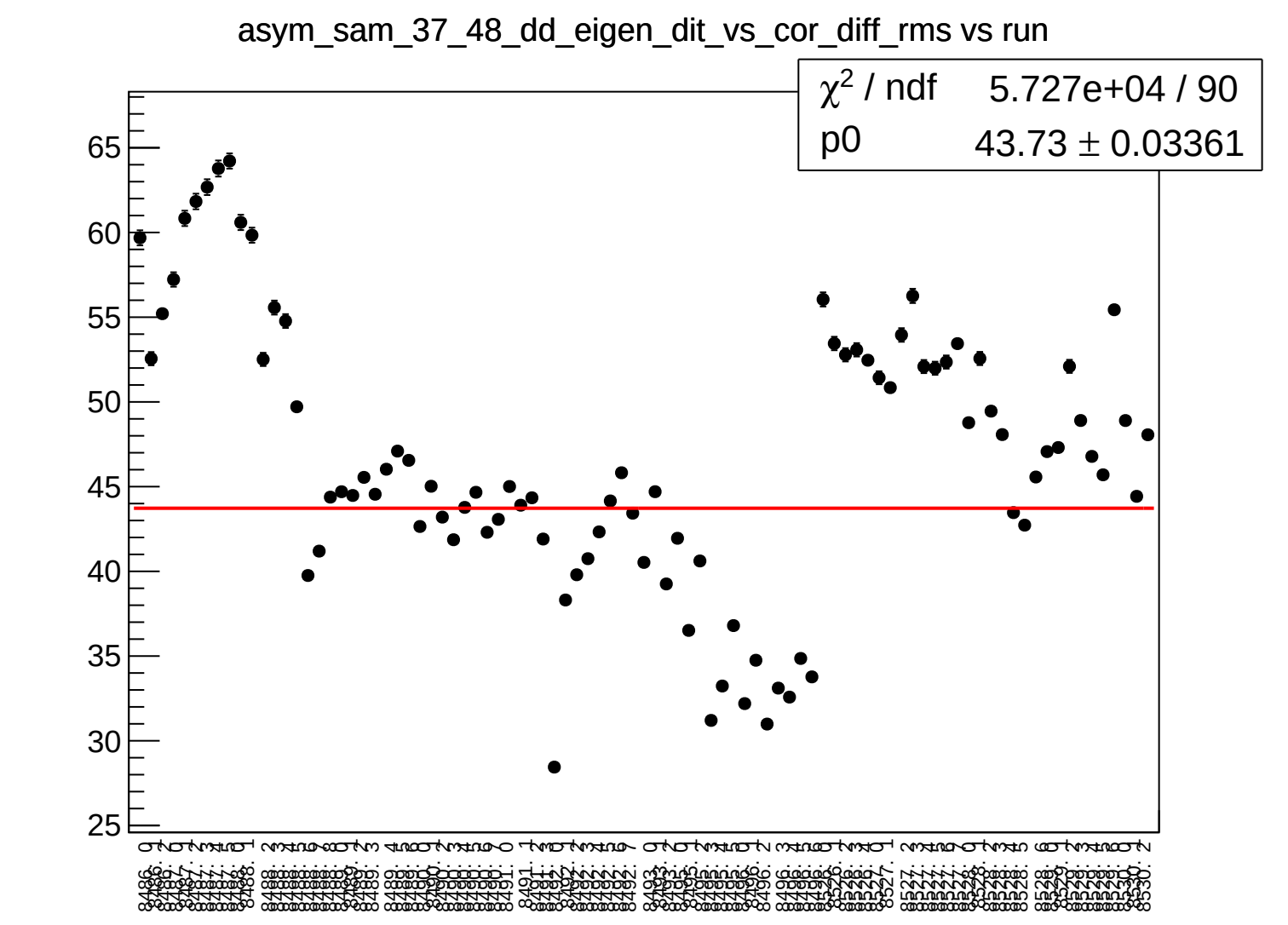

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.16 / 90
p0 0.04945 ± 0.04754
pull
Entries 91
Mean 4.344
Std Dev 0
pull1D
Entries 91
Mean 0.01898
Std Dev 0.9785


asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.727e+04 / 90
p0 43.73 ± 0.03362
65
60
55
50
45
40
35
30
25

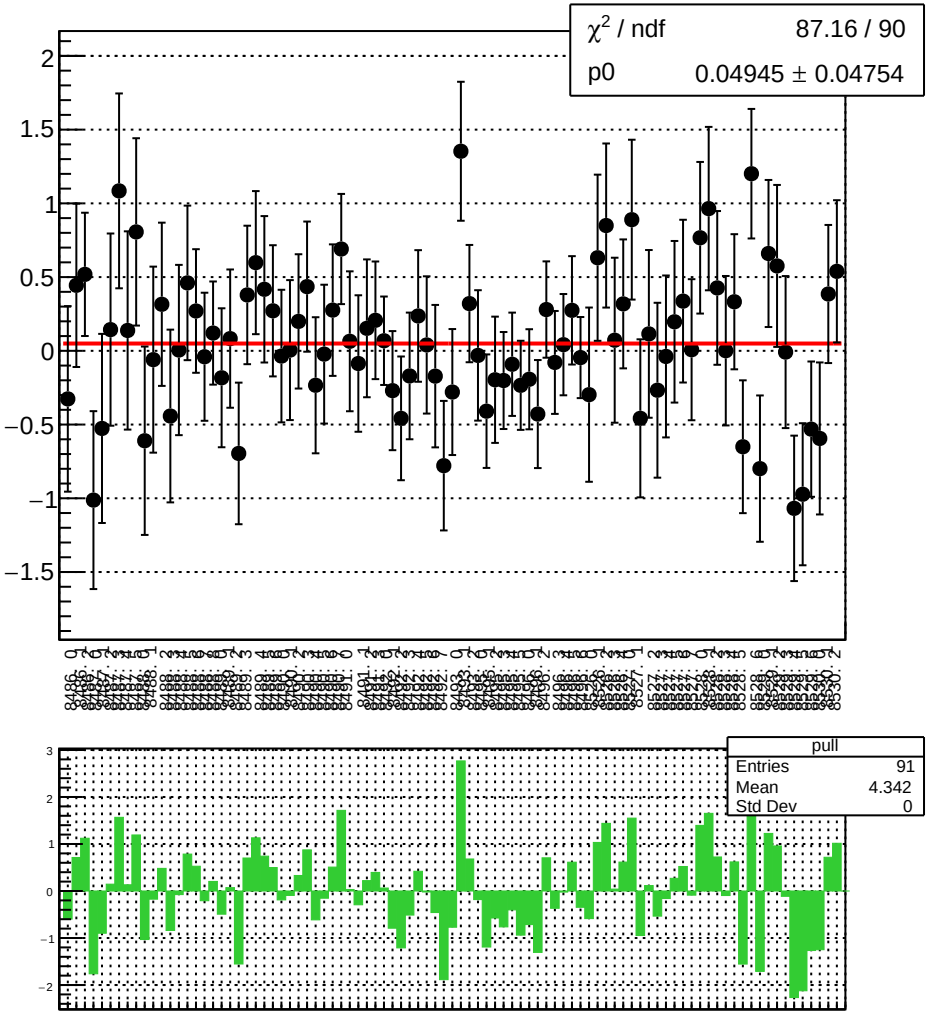

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.6 / 90
p0 5.708e−07 ± 1.484e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 91
Mean 715.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.001904
Std Dev 0.9699
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

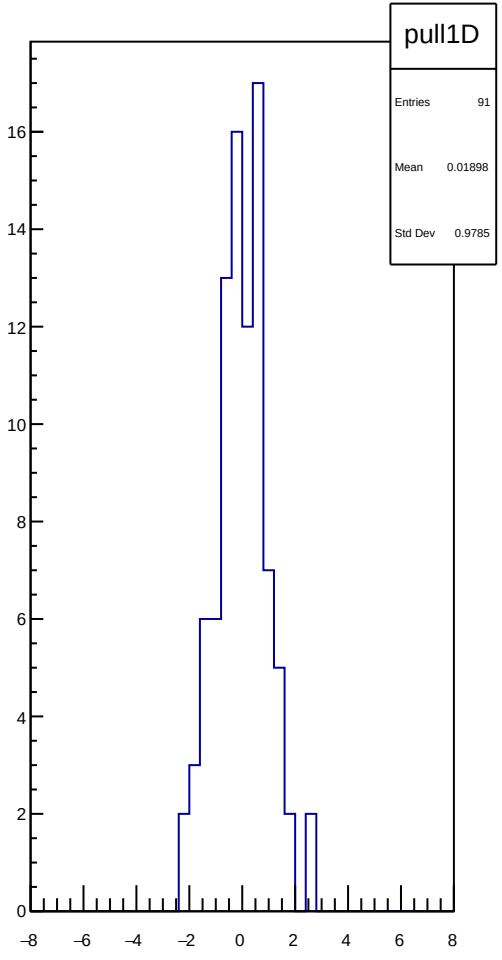

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.727e+04 / 90
p0 0.001357 ± 1.05e−06
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001

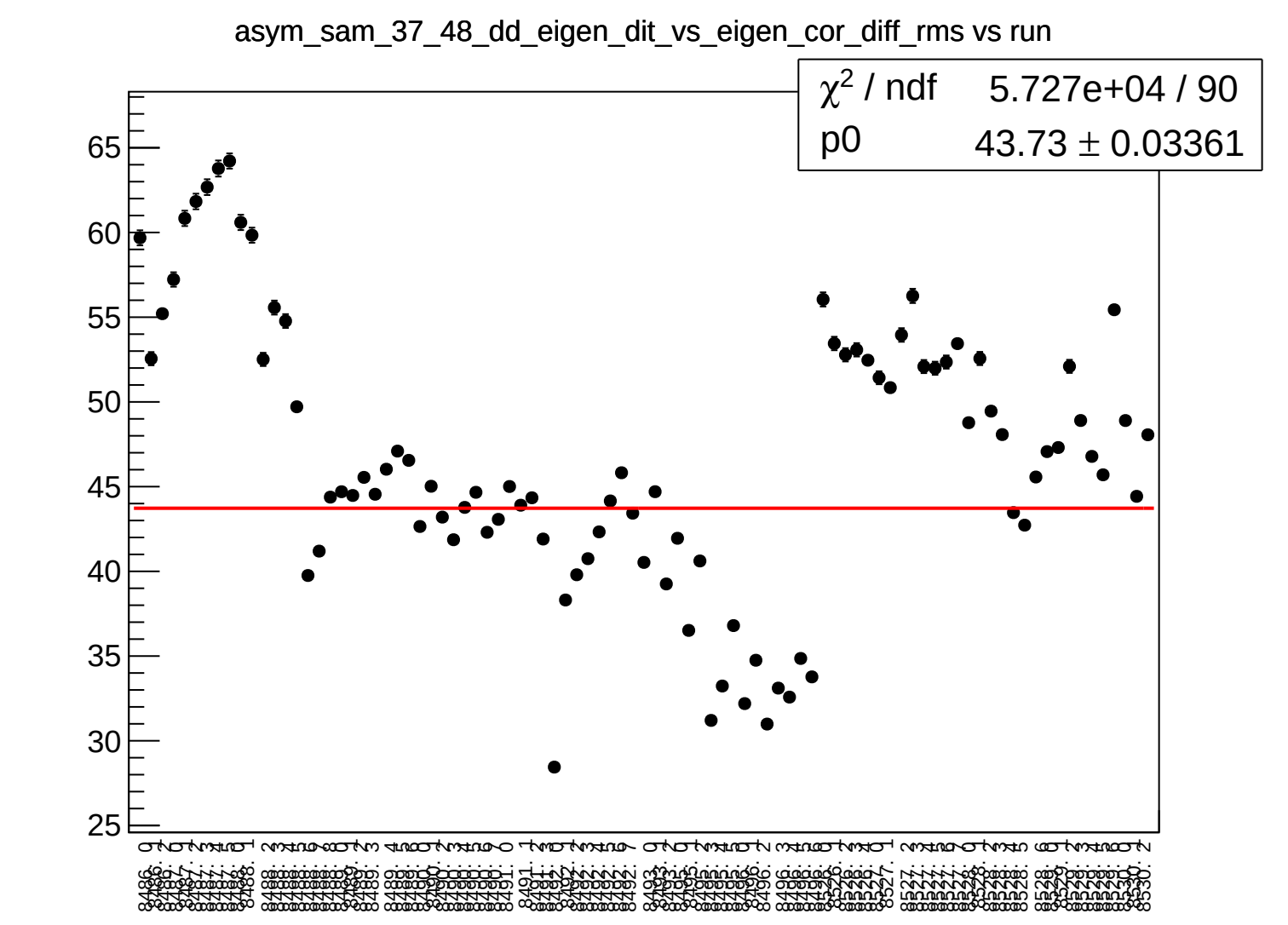

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.16 / 90
p0 0.04945 ± 0.04754
pull
Entries 91
Mean 4.342
Std Dev 0
pull1D
Entries 91
Mean 0.01898
Std Dev 0.9785

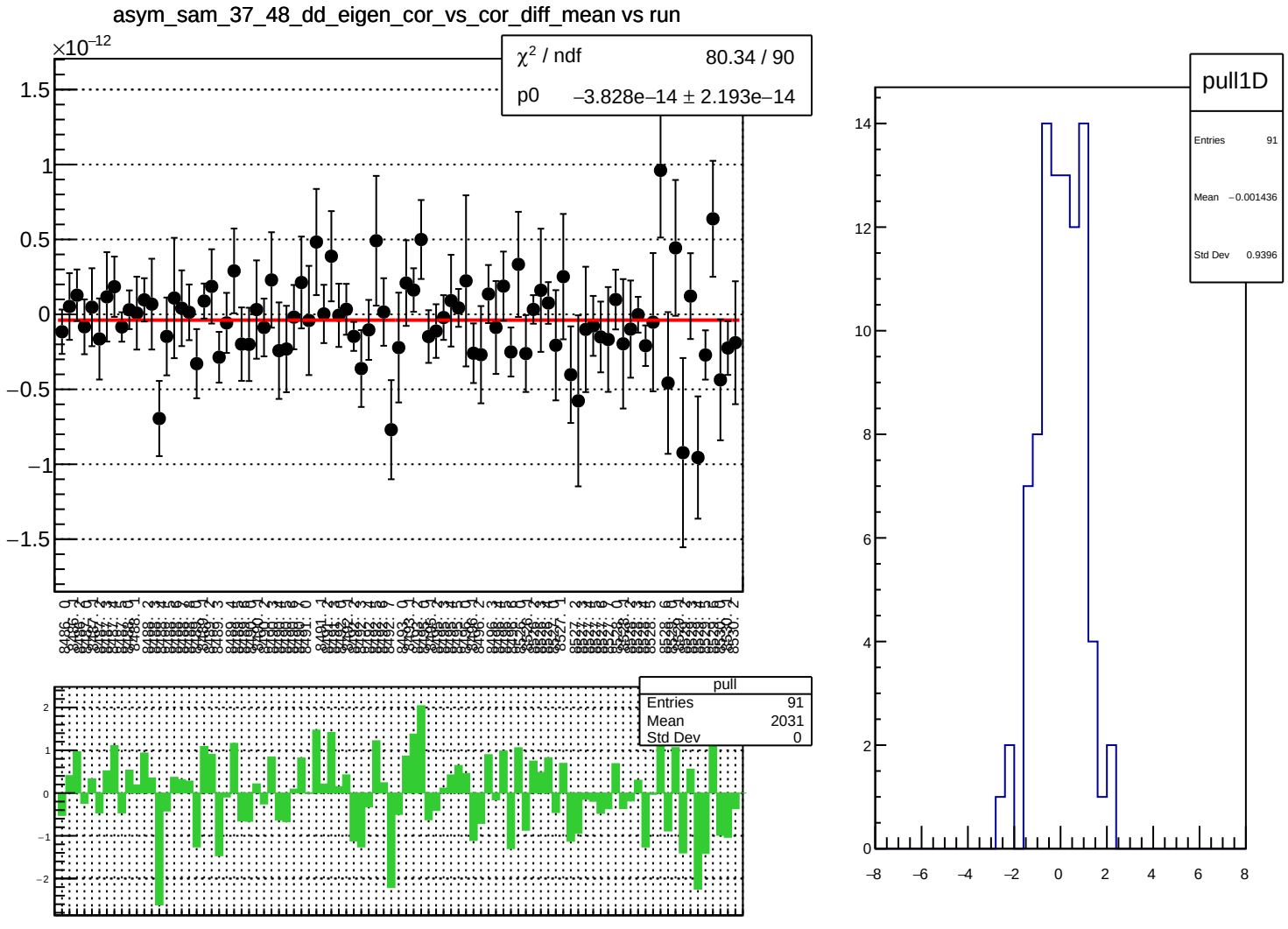

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.727e+04 / 90
p0 43.73 ± 0.03361
65
60
55
50
45
40
35
30
25

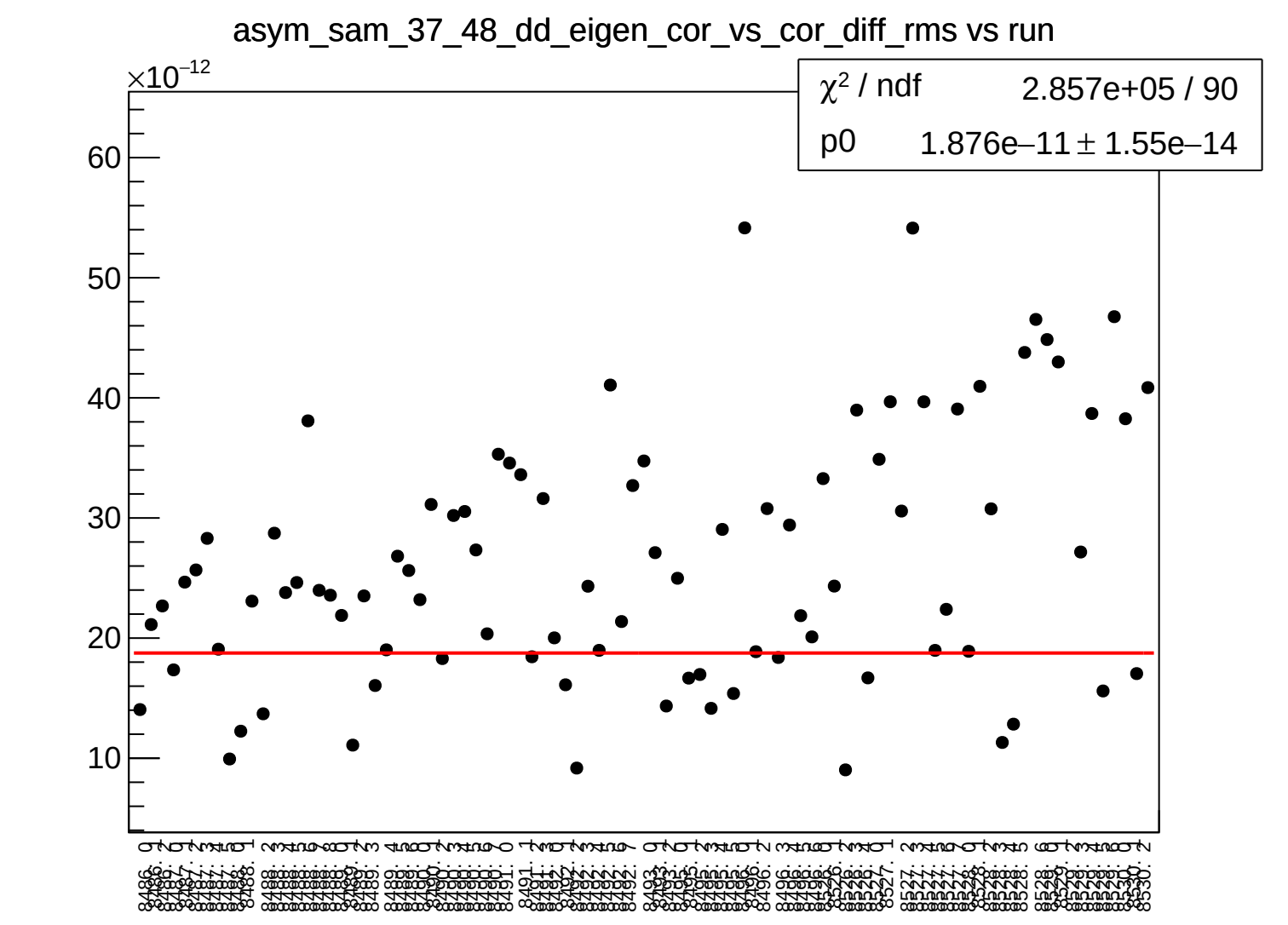
asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

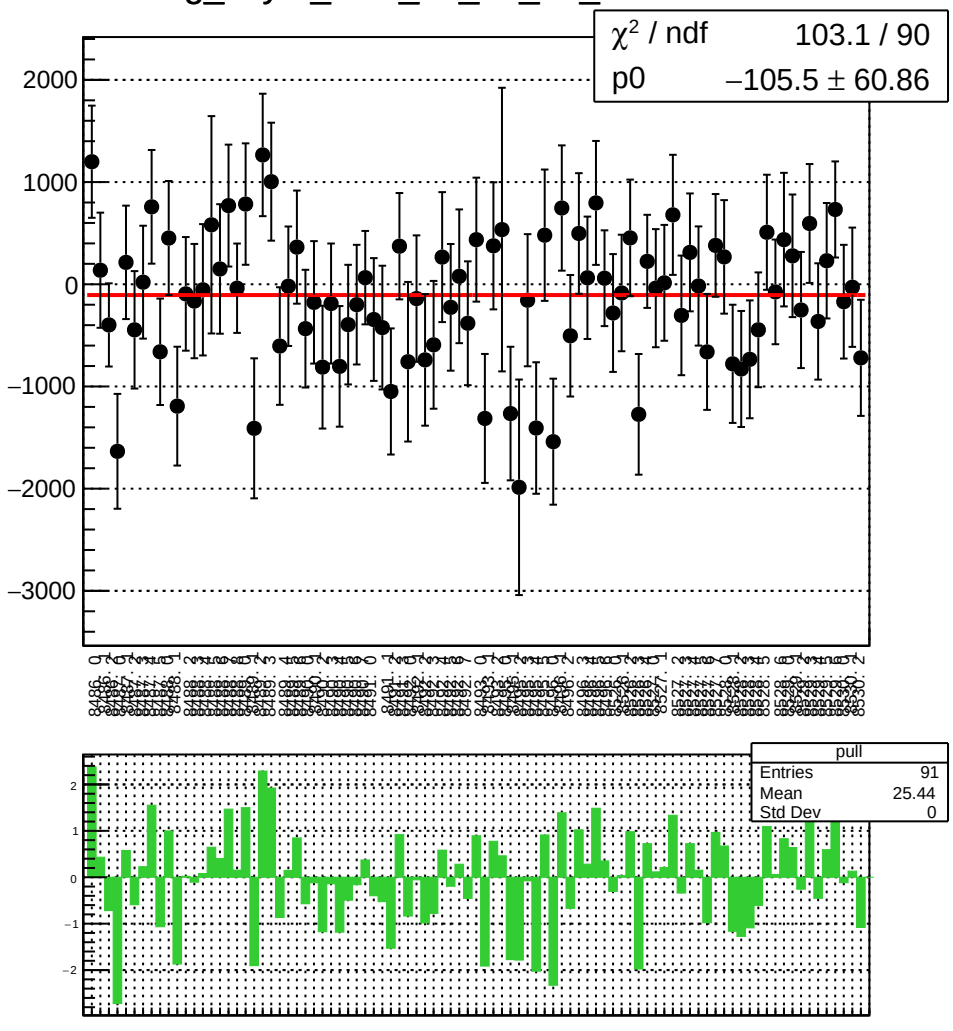


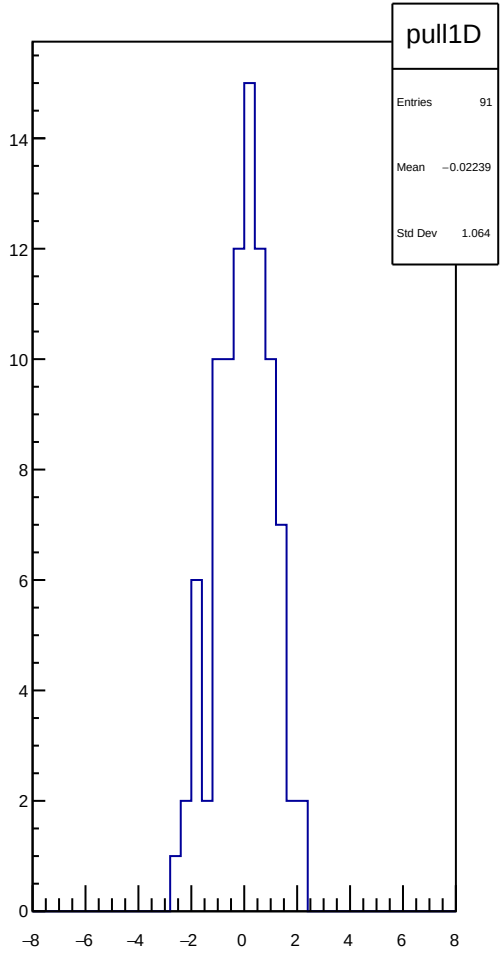


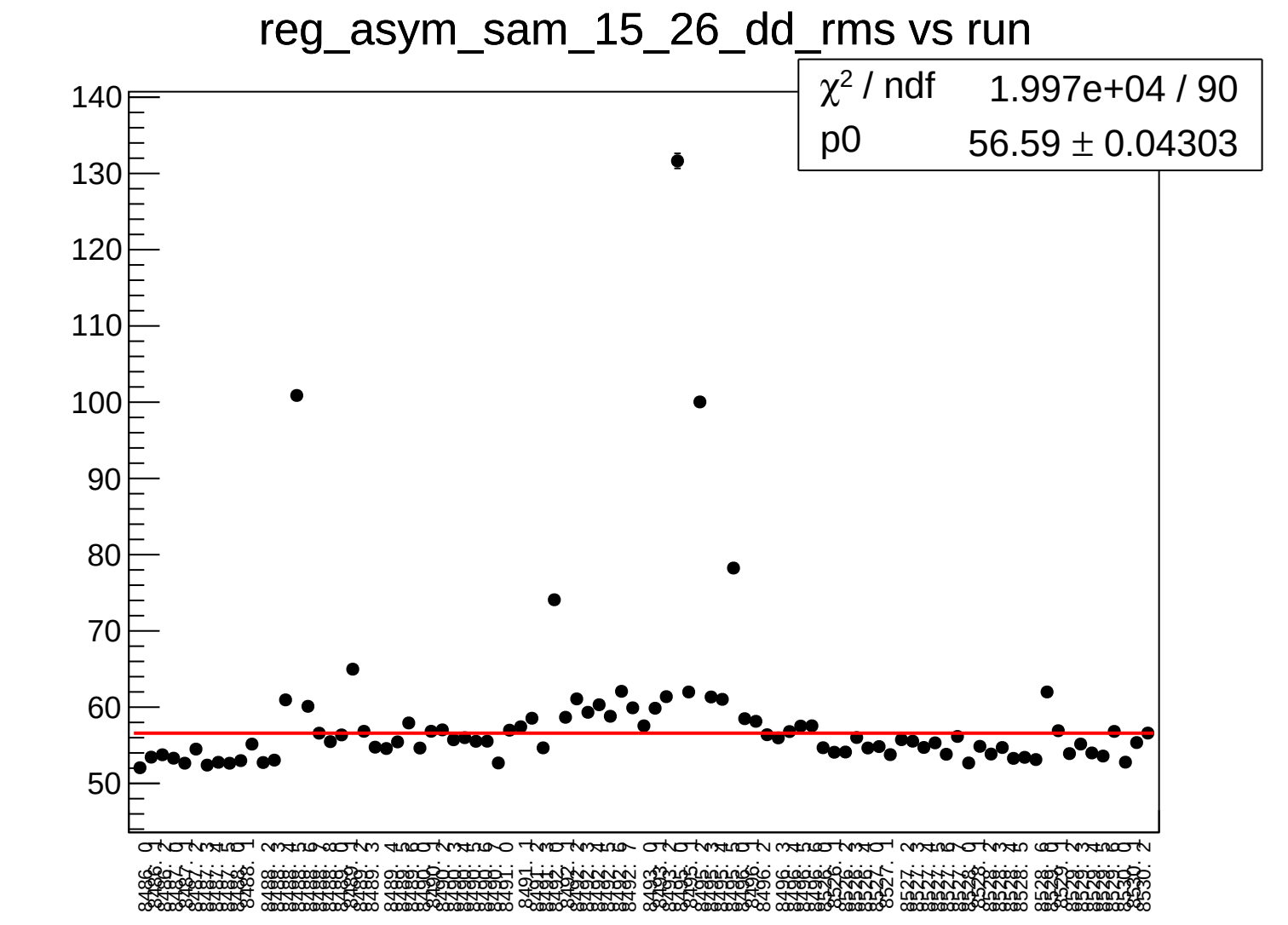

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.727e+04 / 90
p0 43.73 ± 0.03361
65
60
55
50
45
40
35
30
25

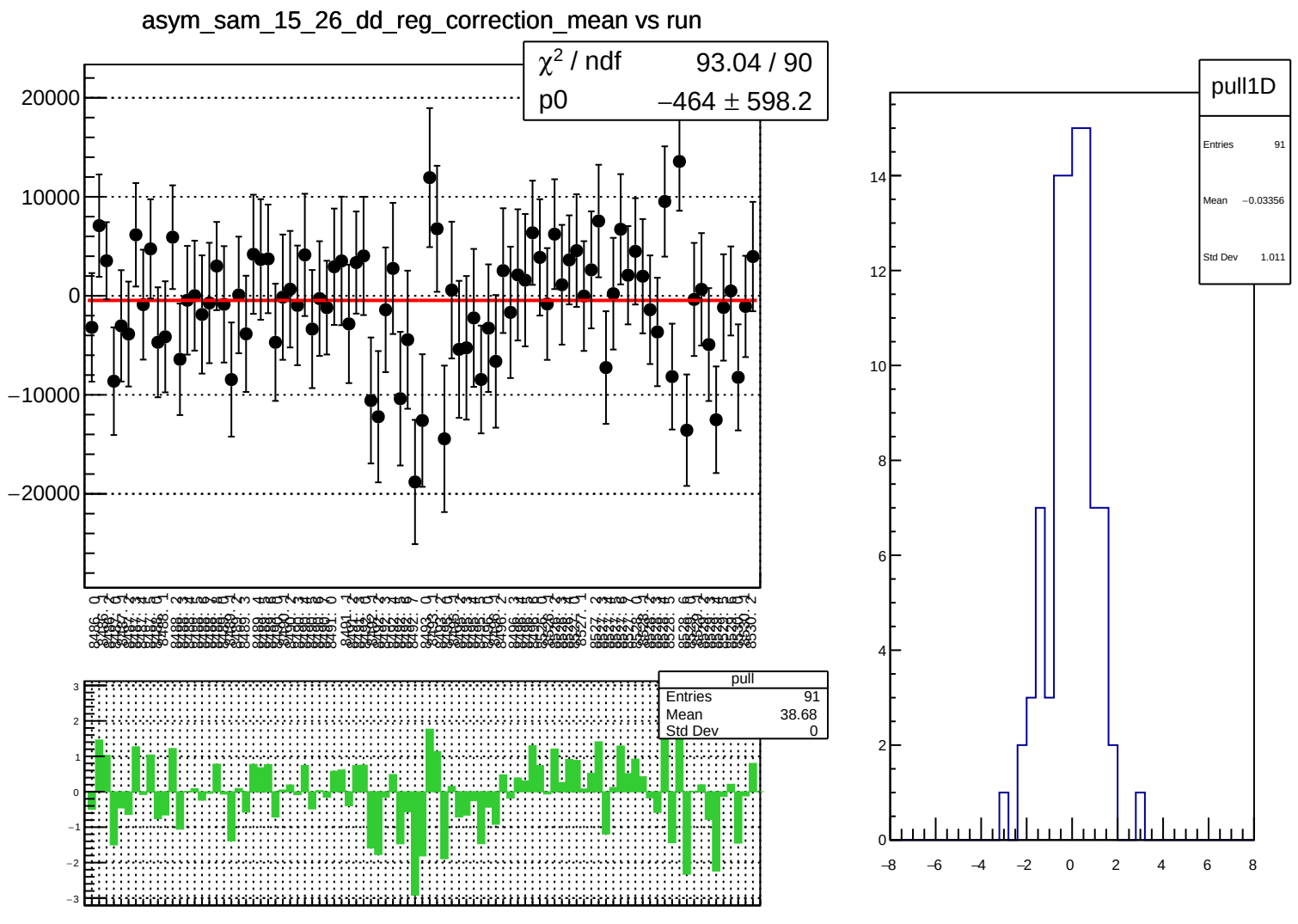

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 80.34 / 90
p0 −3.828e−14 ± 2.193e−14
pull
Entries 91
Mean 2031
Std Dev 0
pull1D
Entries 91
Mean −0.001436
Std Dev 0.9396

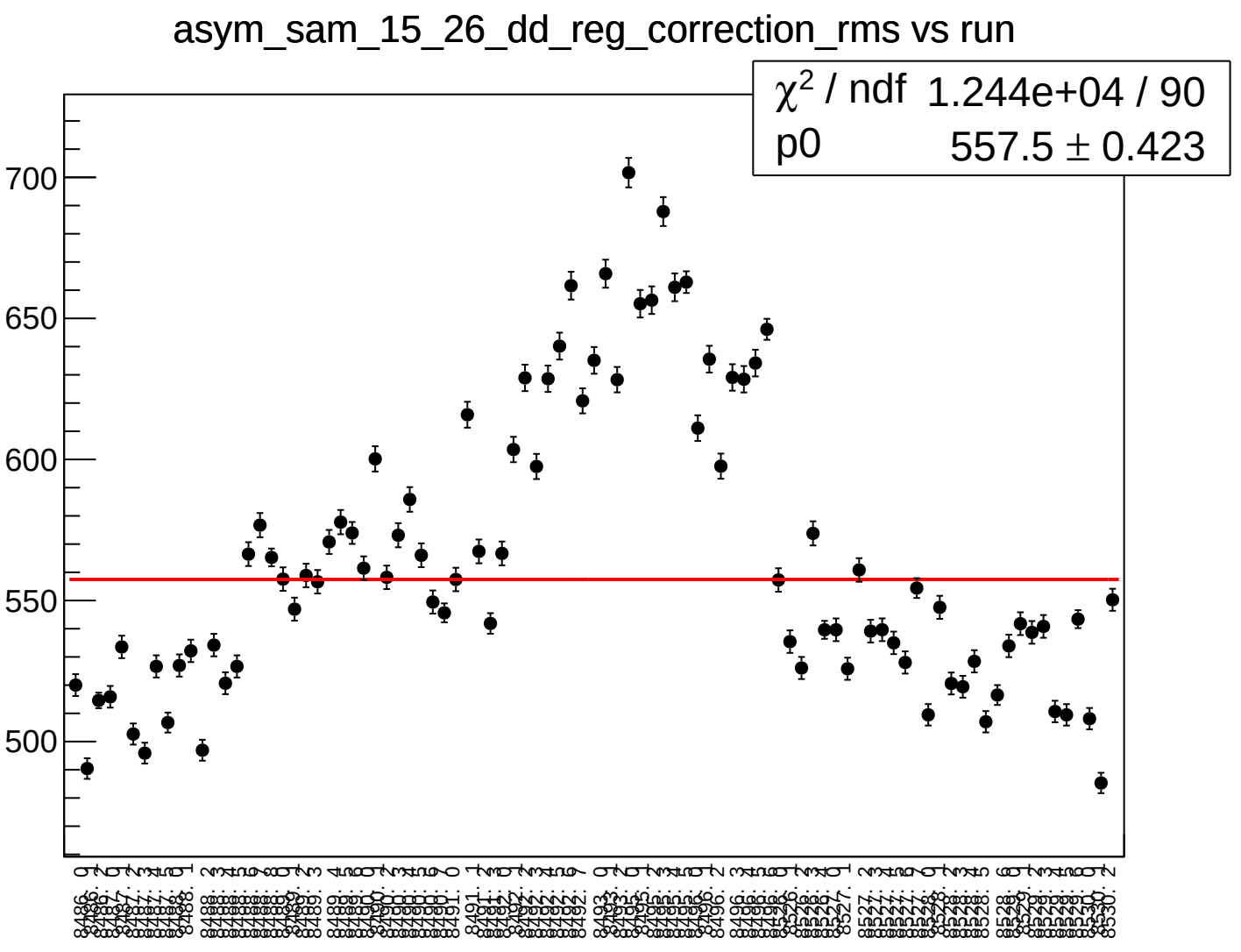

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 2.857e+05 / 90
p0 1.876e−11 ± 1.55e−14
60
50
40
30
20
10

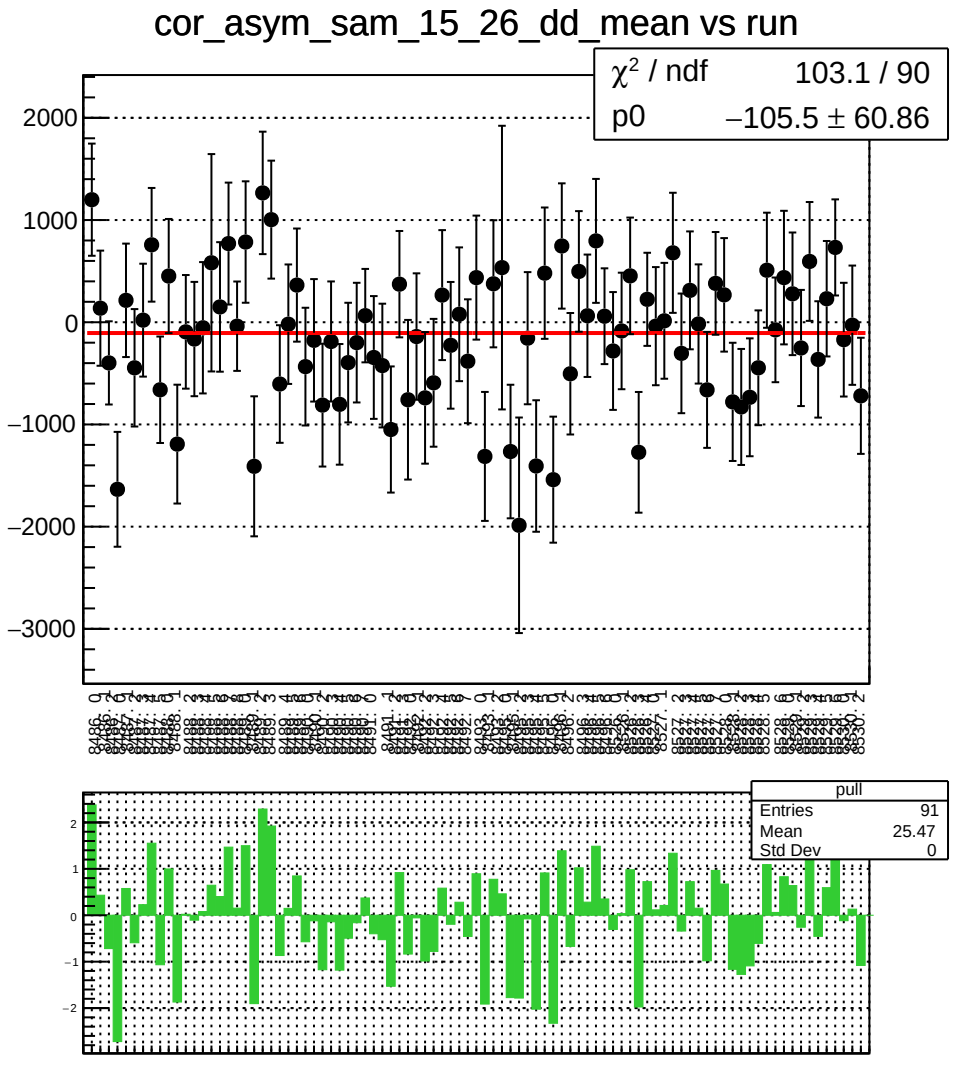

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 103.1 / 90
p0 −105.5 ± 60.86
2000
1000
0
−1000
−2000
−3000
pull
Entries 91
Mean 25.44
Std Dev 0
2
1
0
−1
−2

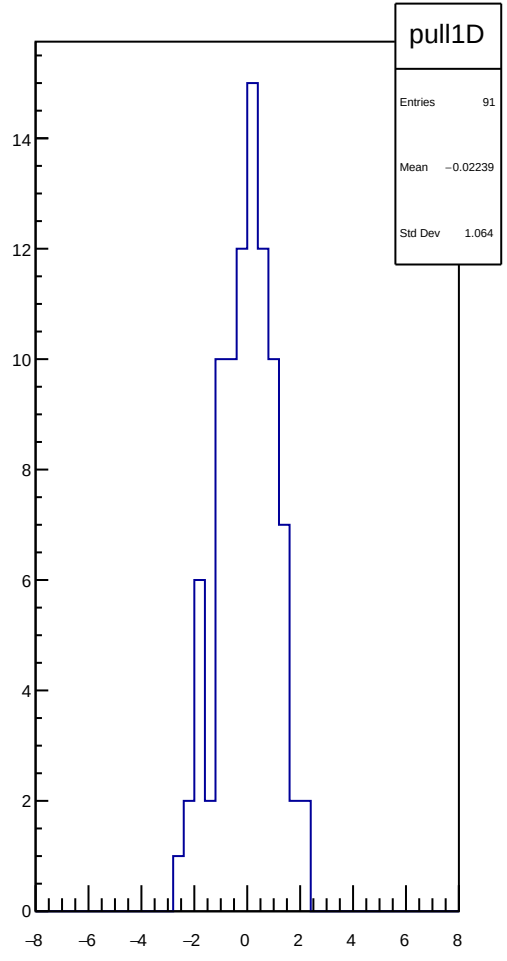

pull1D
Entries 91
Mean −0.02239
Std Dev 1.064
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

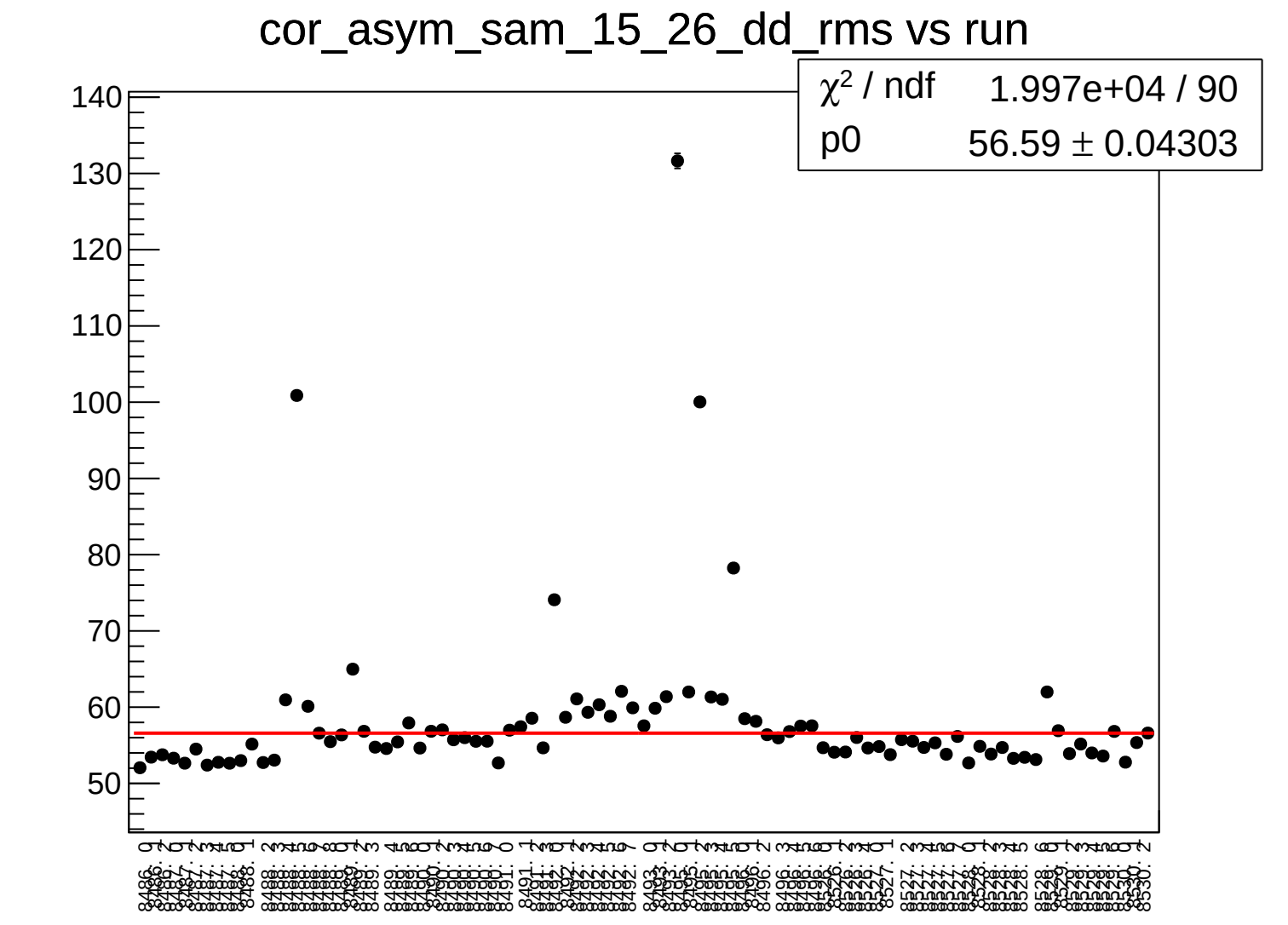

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 1.997e+04 / 90
p0 56.59 ± 0.04303
140
130
120
110
100
90
80
70
60
50

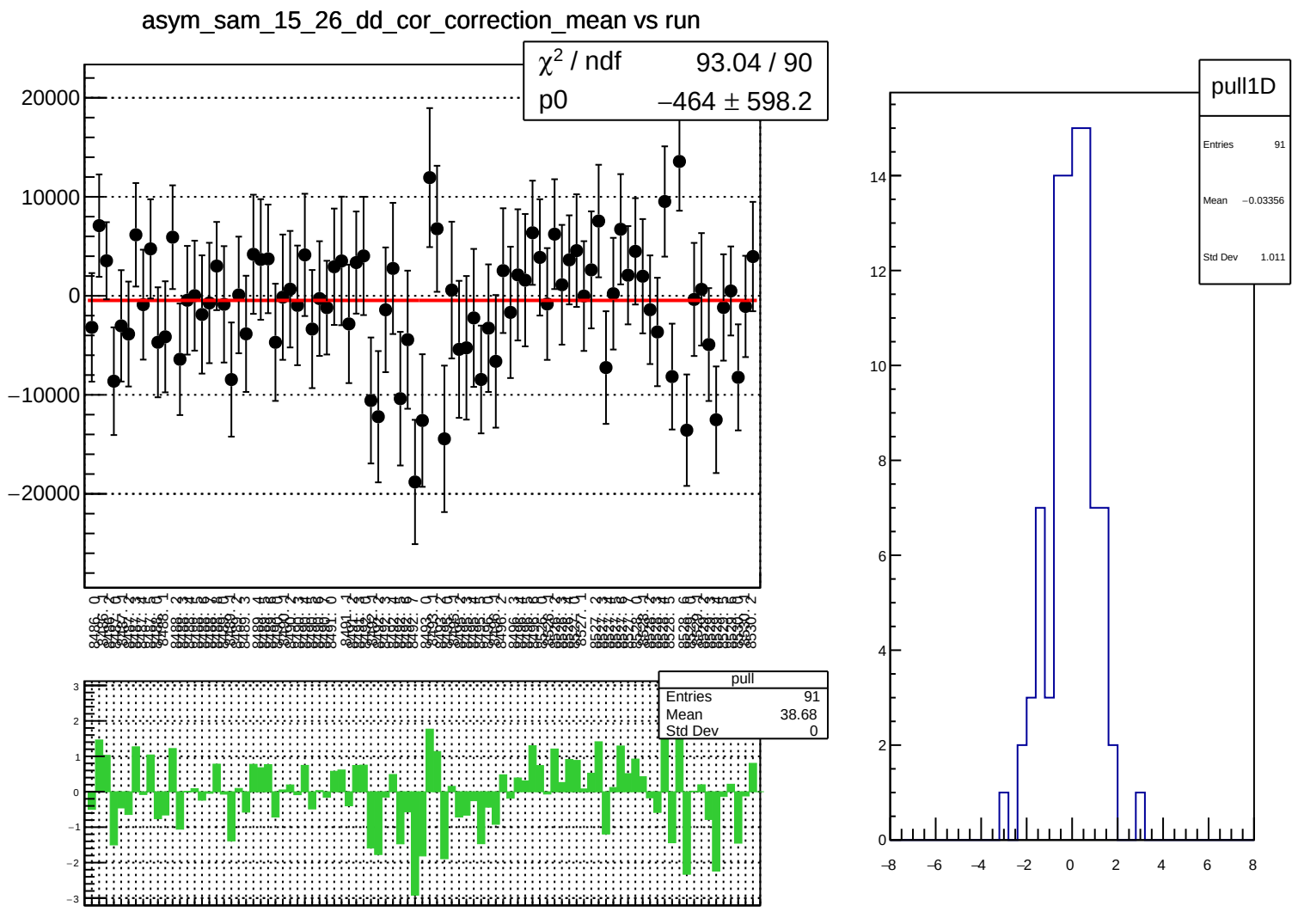

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 93.04 / 90
p0 −464 ± 598.2
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 38.68
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean −0.03356
Std Dev 1.011
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

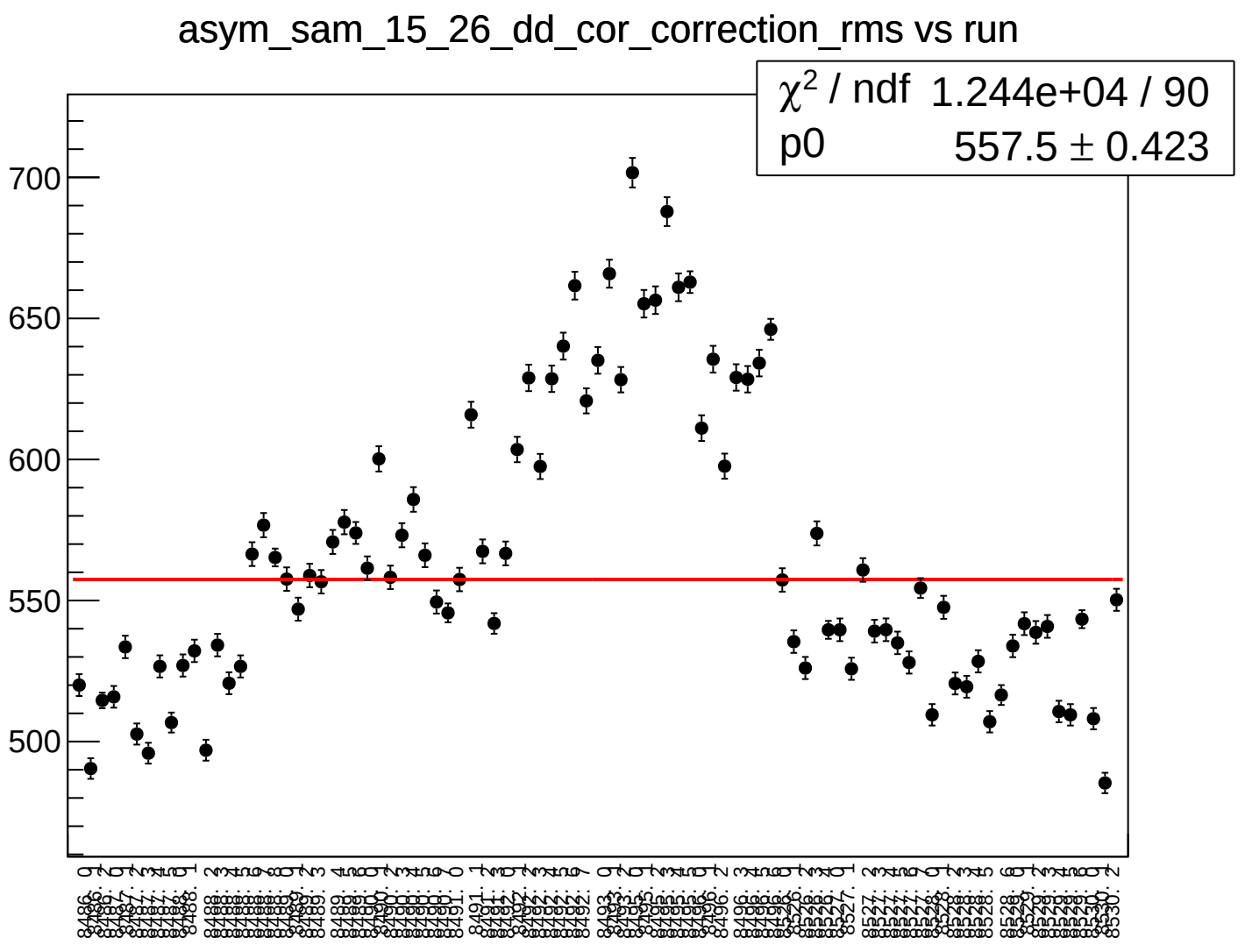

asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 1.244e+04 / 90
p0 557.5 ± 0.423
700
650
600
550
500

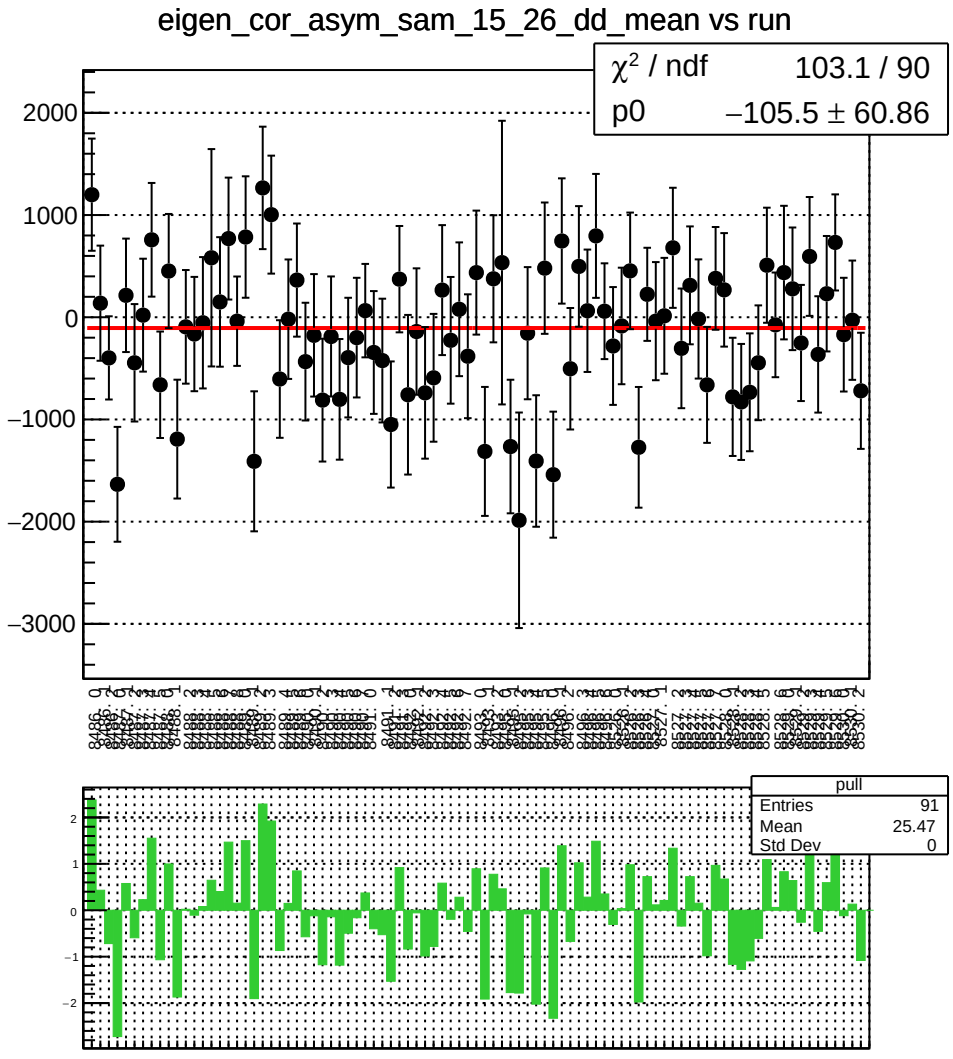

cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 103.1 / 90
p0 −105.5 ± 60.86
2000
1000
0
−1000
−2000
−3000
pull
Entries 91
Mean 25.47
Std Dev 0
2
1
0
−1
−2

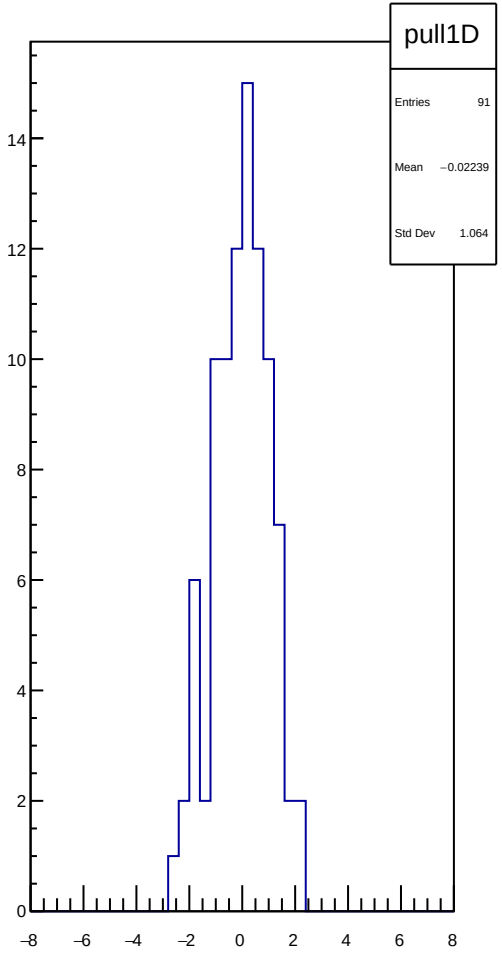

pull1D
Entries 91
Mean −0.02239
Std Dev 1.064
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

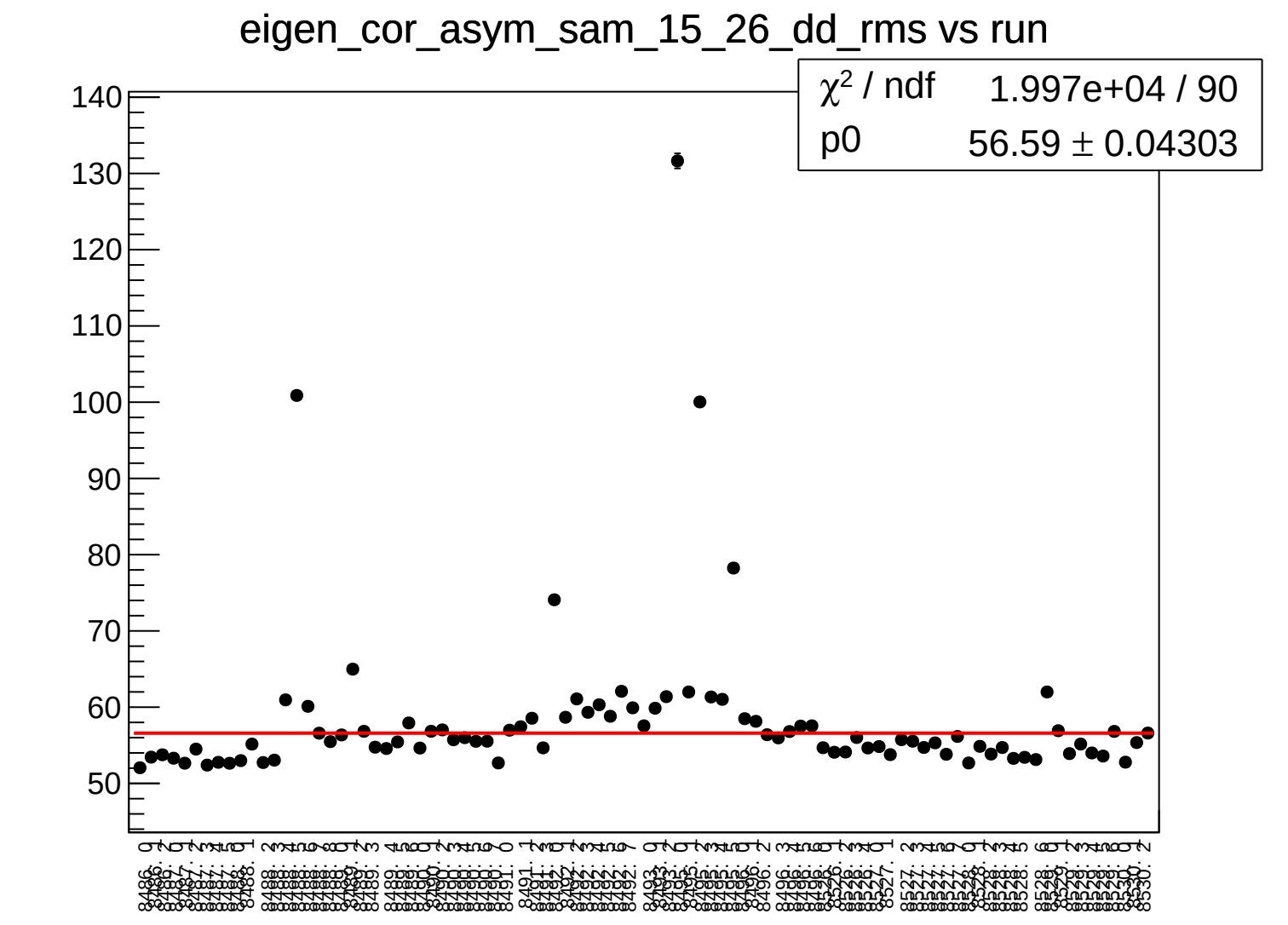

cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 1.997e+04 / 90
p0 56.59 ± 0.04303
140
130
120
110
100
90
80
70
60
50

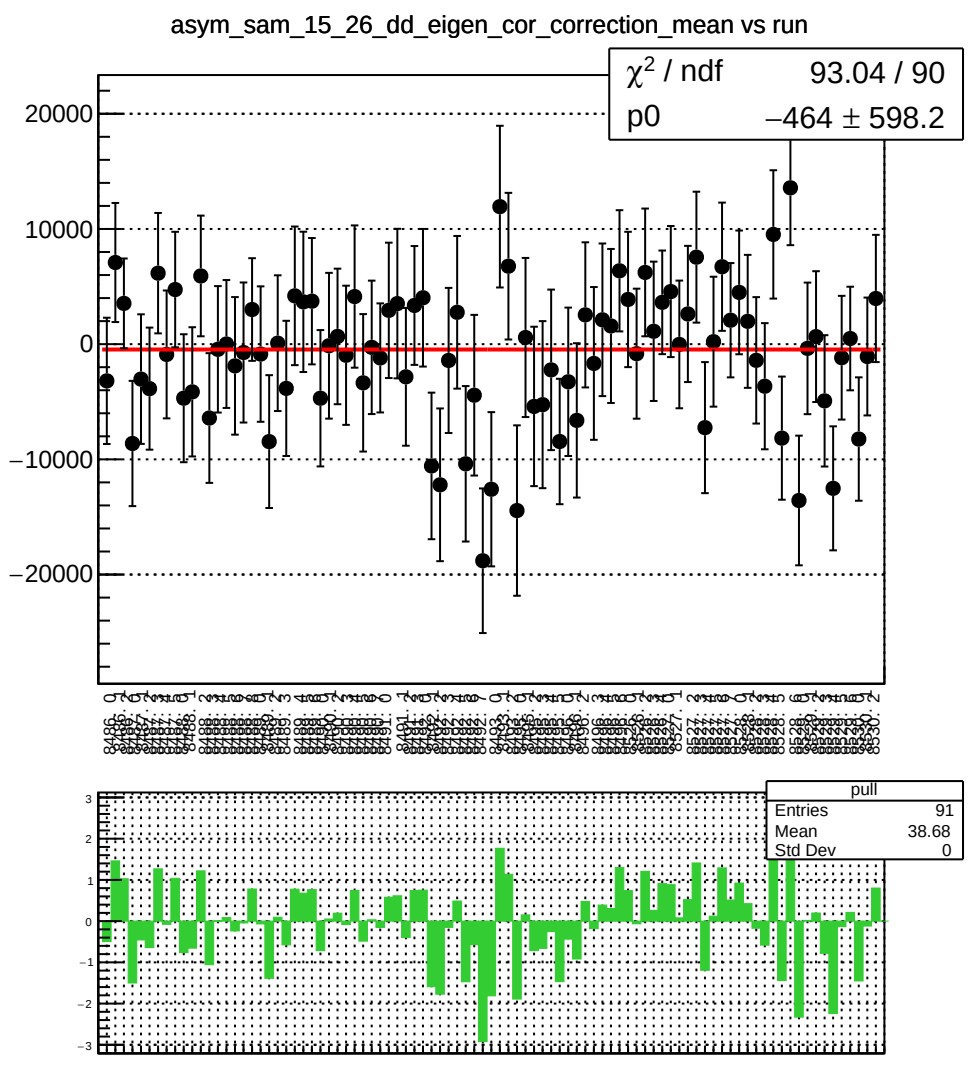

asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 93.04 / 90
p0 −464 ± 598.2
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 38.68
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean −0.03356
Std Dev 1.011
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

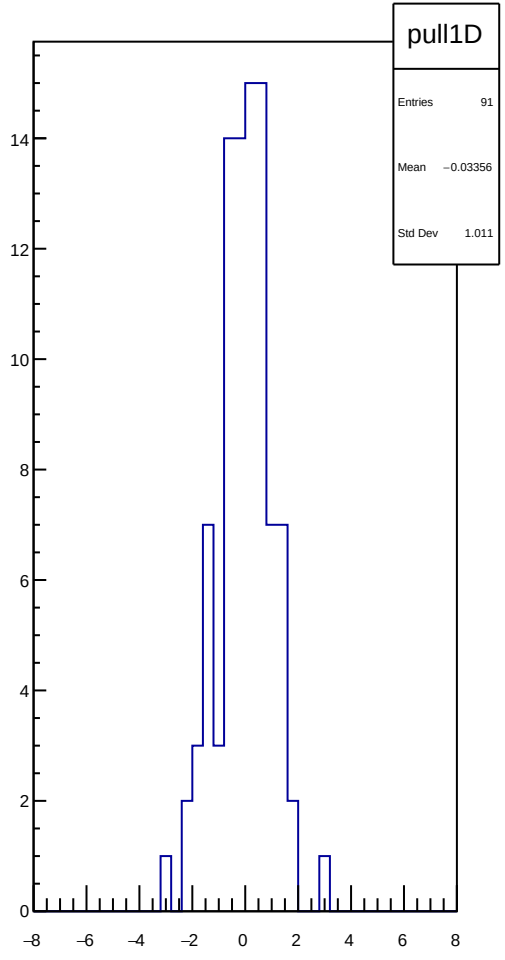

asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 1.244e+04 / 90
p0 557.5 ± 0.423
700
650
600
550
500

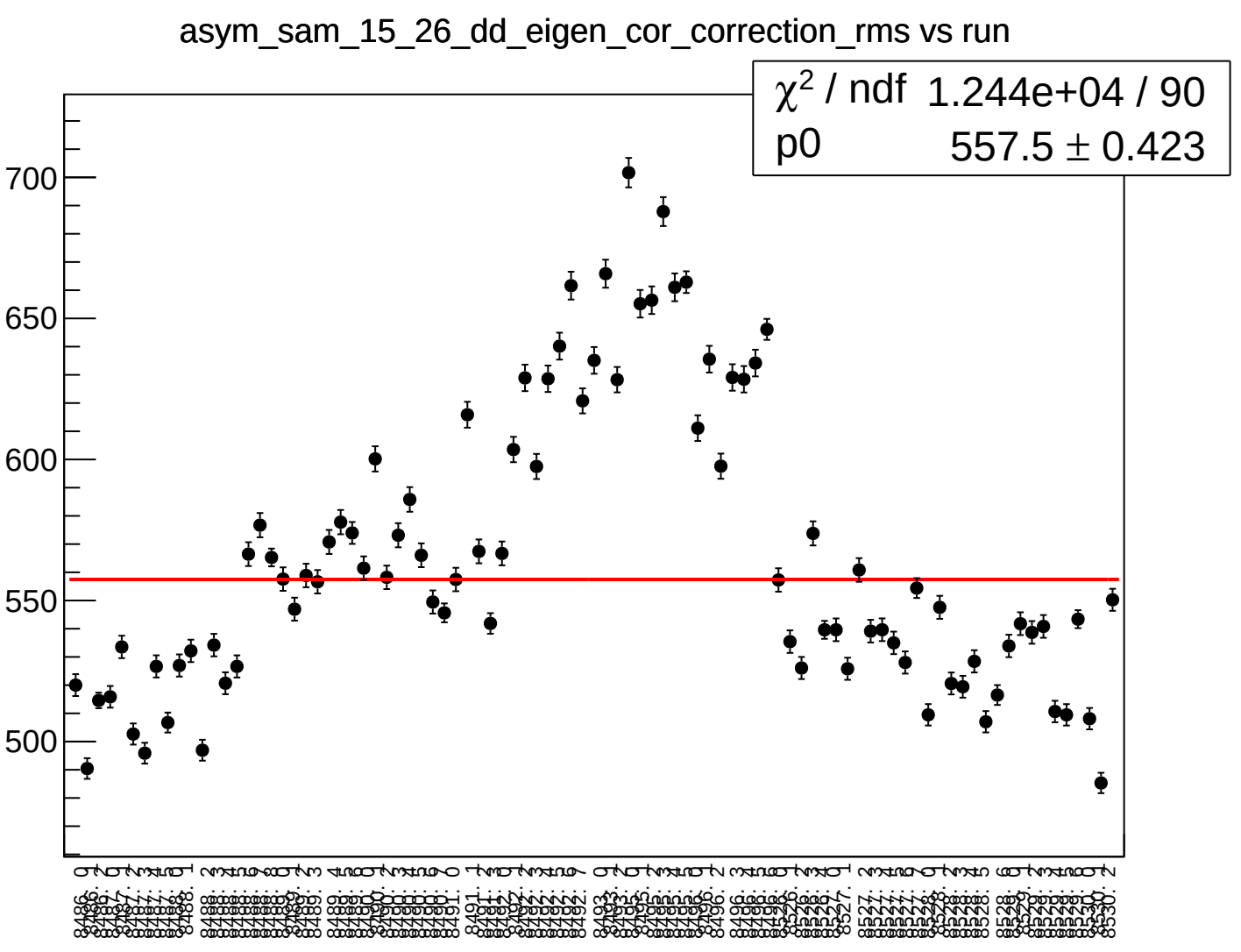

eigen_cor_asym_sam_15_26_dd_mean vs run
χ^2 / ndf 103.1 / 90
p0 −105.5 ± 60.86
2000
1000
0
−1000
−2000
−3000
pull
Entries 91
Mean 25.47
Std Dev 0
2
1
0
−1
−2

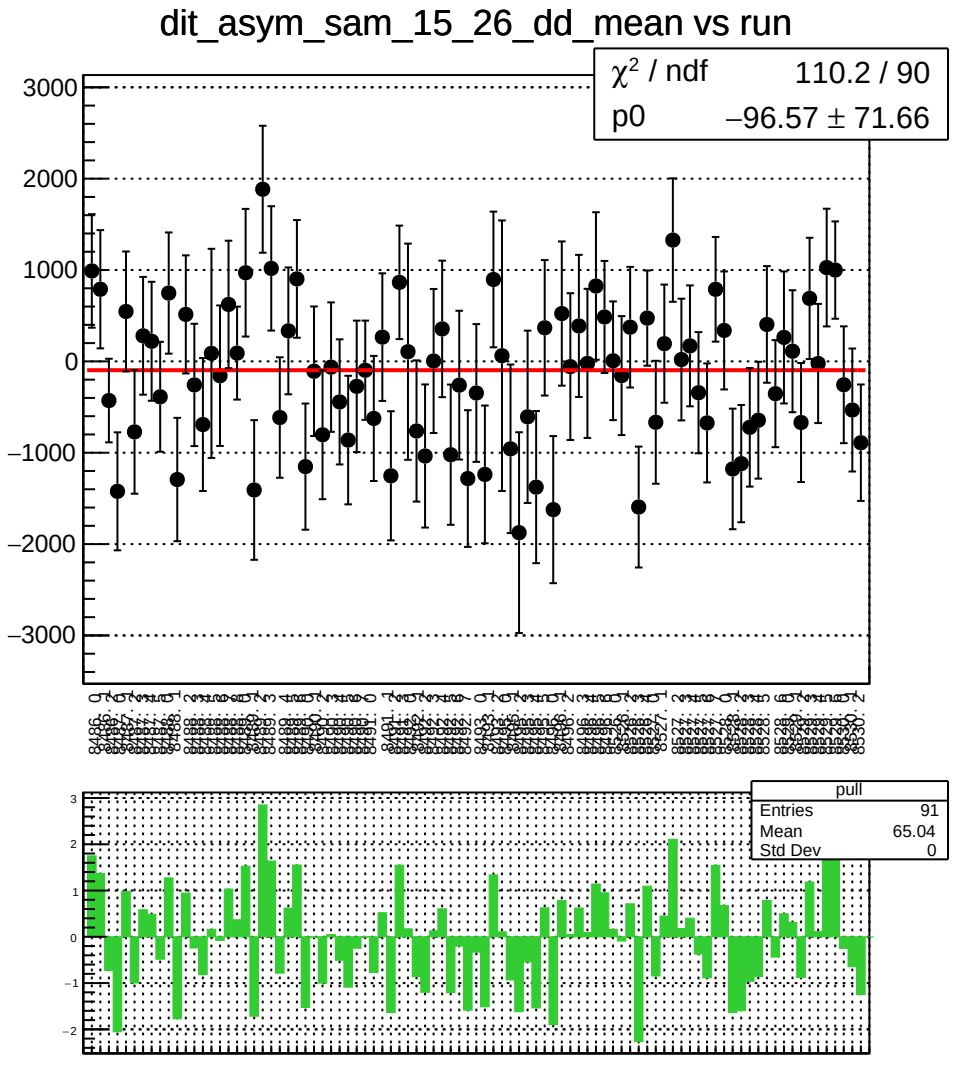

pull1D
Entries 91
Mean −0.02239
Std Dev 1.064
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

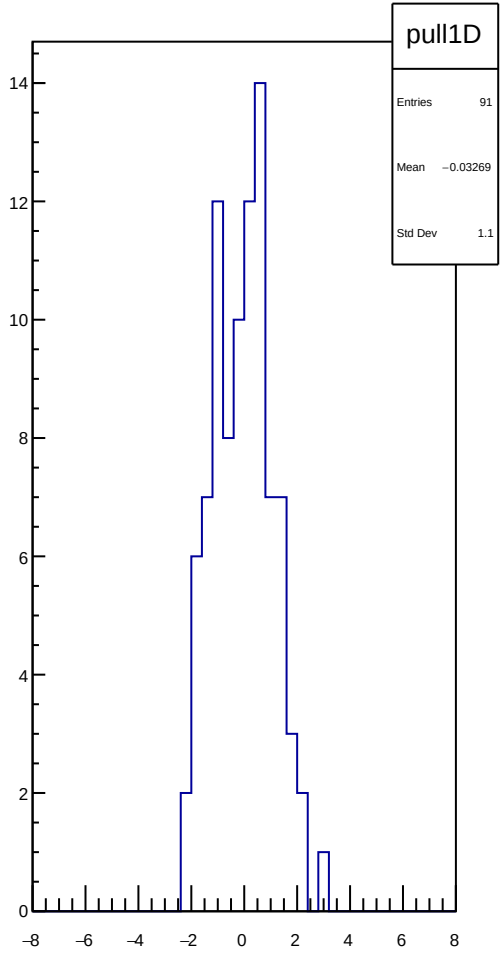

eigen_cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 1.997e+04 / 90
p0 56.59 ± 0.04303
140
130
120
110
100
90
80
70
60
50

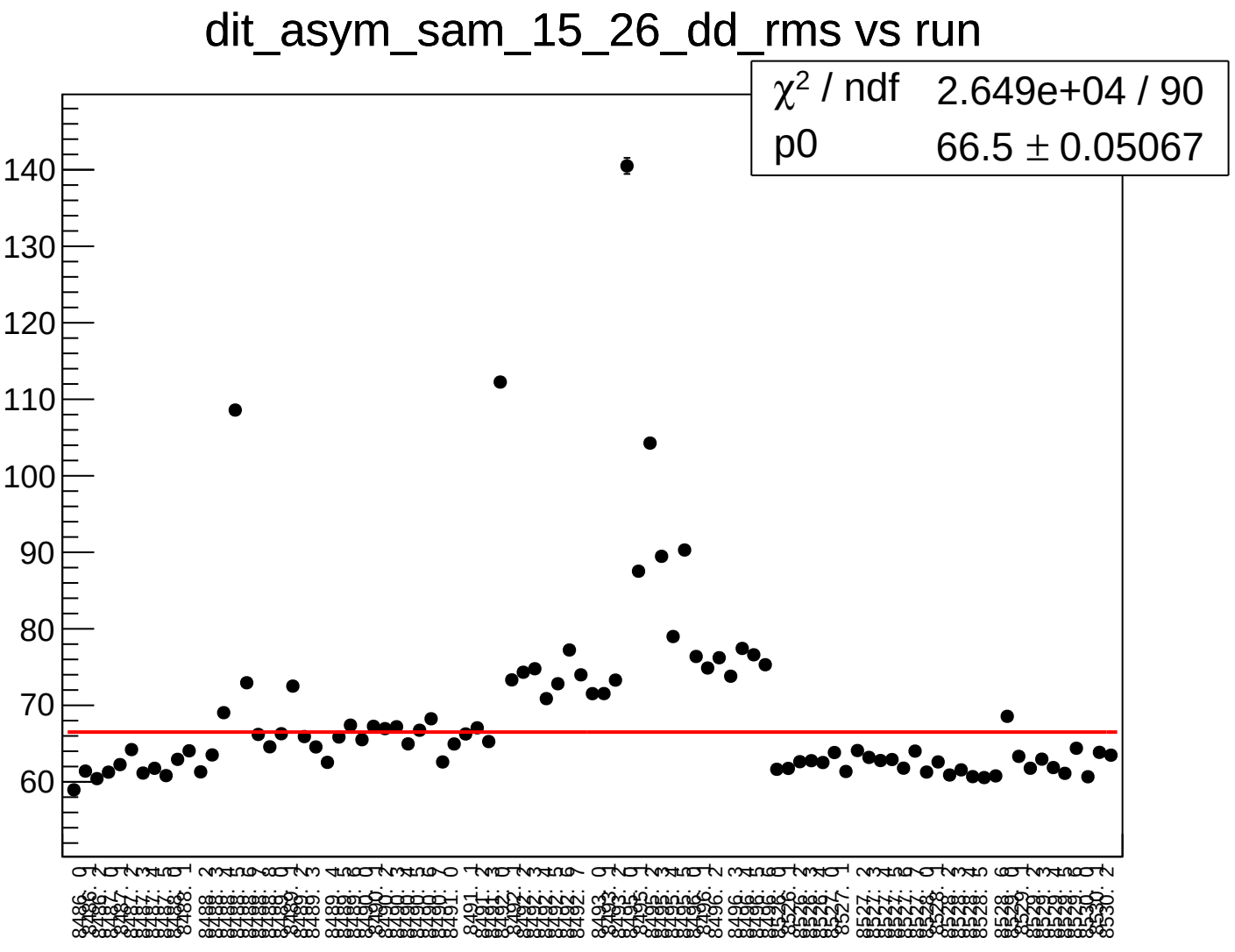

asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 93.04 / 90
p0 −464 ± 598.2
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 38.68
Std Dev 0
3
2
1
0
−1
−2
−3

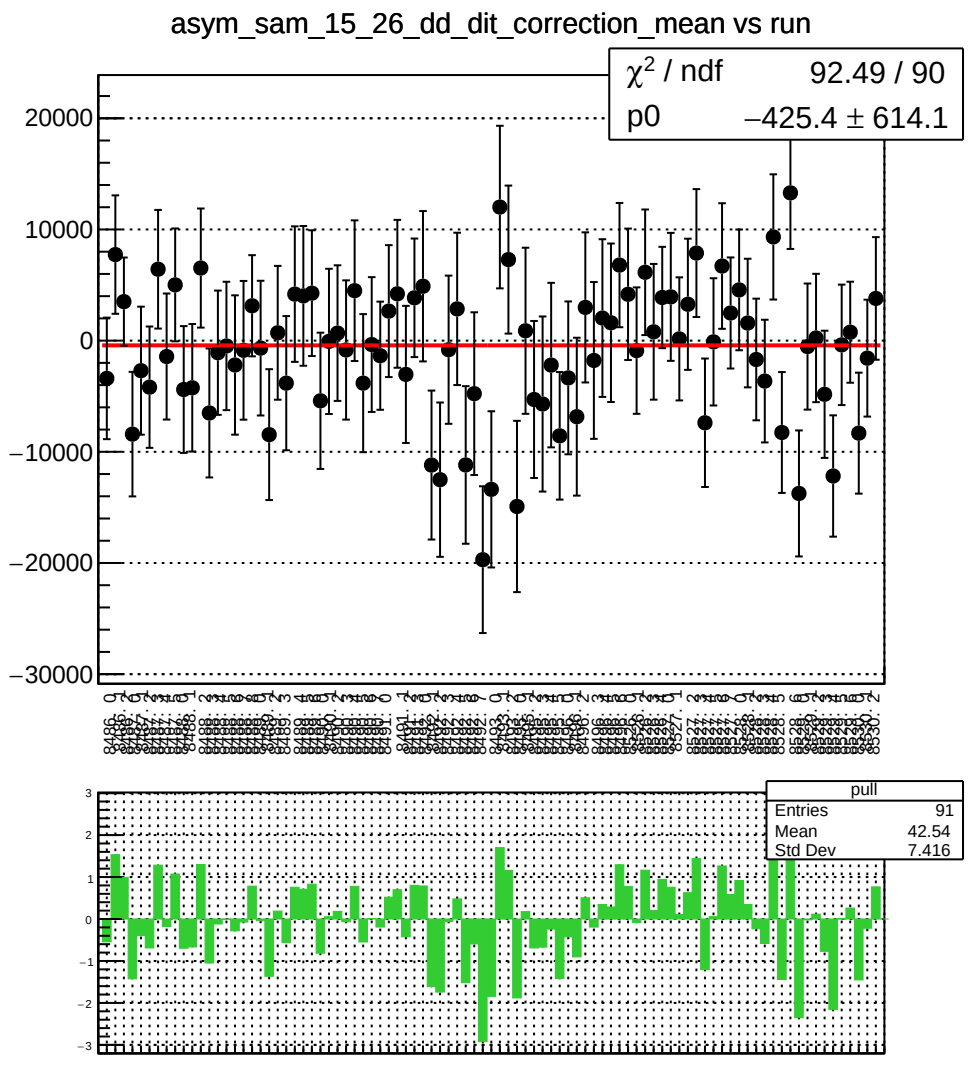

pull1D
Entries 91
Mean −0.03356
Std Dev 1.011
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

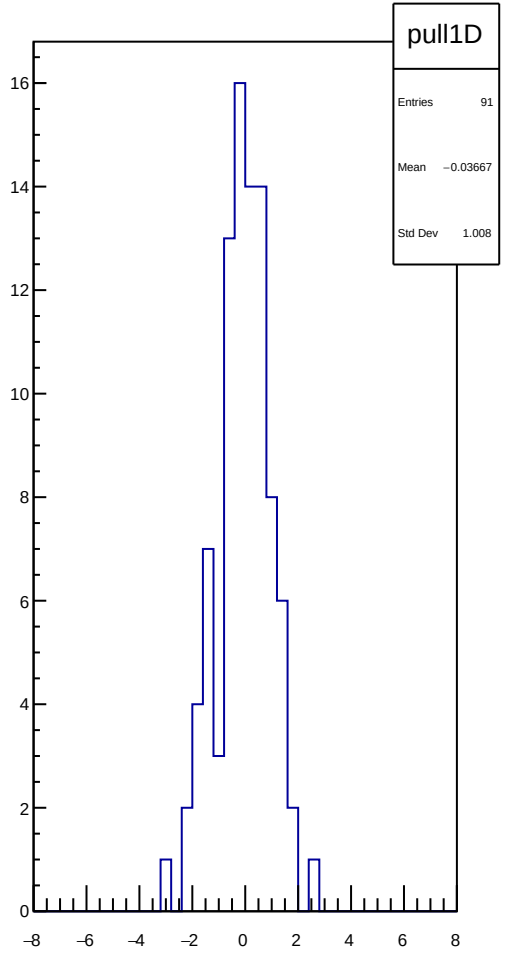

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.244e+04 / 90
p0 557.5 ± 0.423
700
650
600
550
500

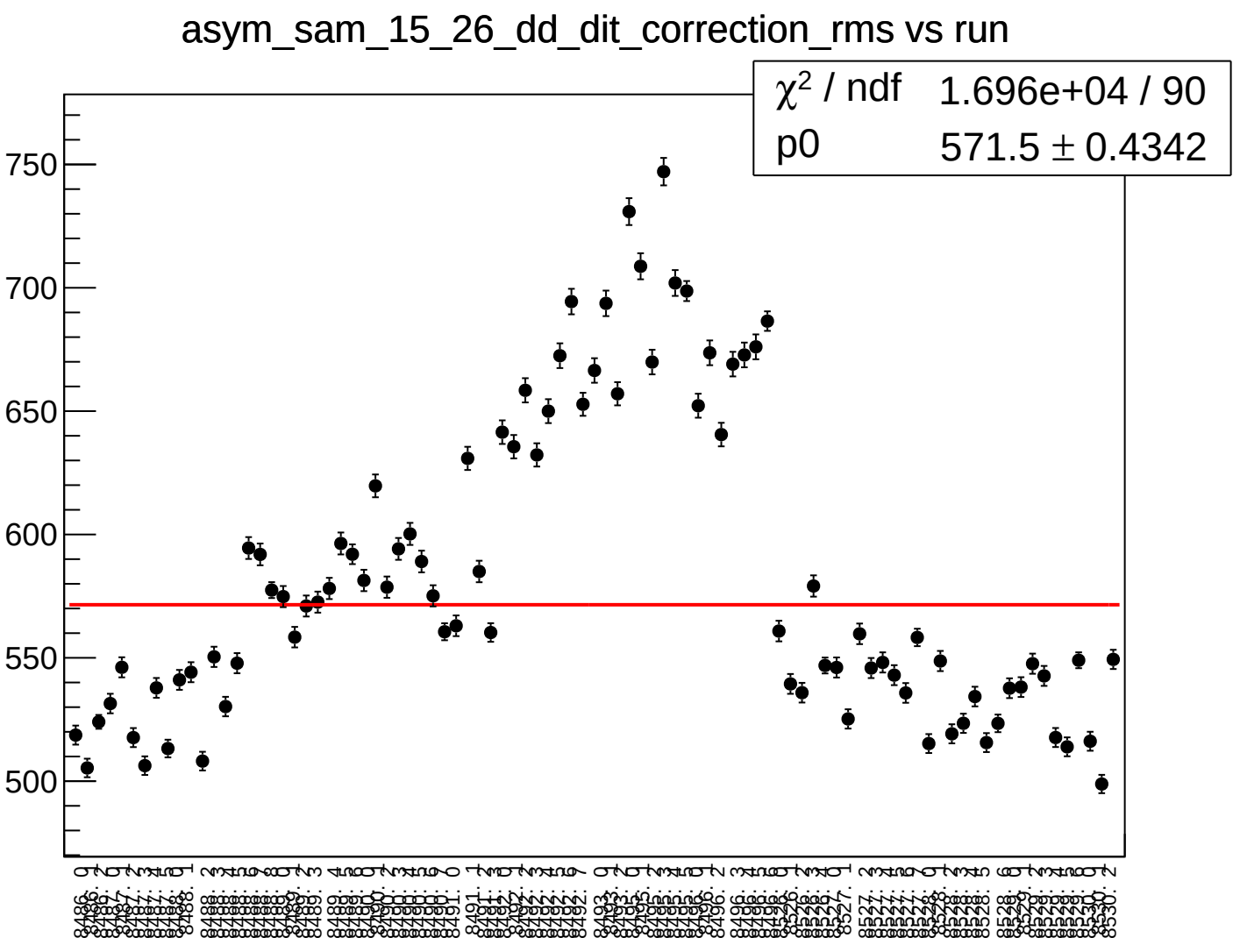

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 110.2 / 90
p0 −96.57 ± 71.66
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 91
Mean 65.04
Std Dev 0
3
2
1
0
−1
−2

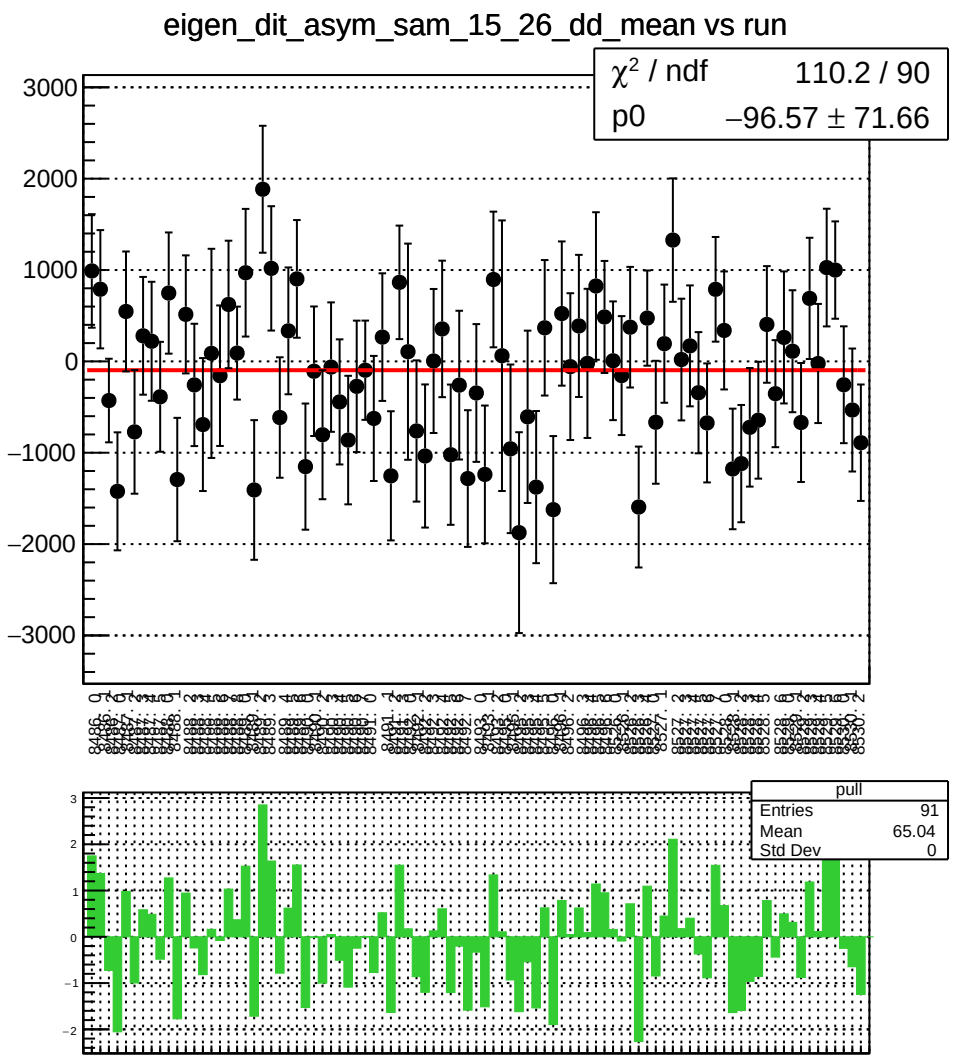

pull1D
Entries 91
Mean −0.03269
Std Dev 1.1
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

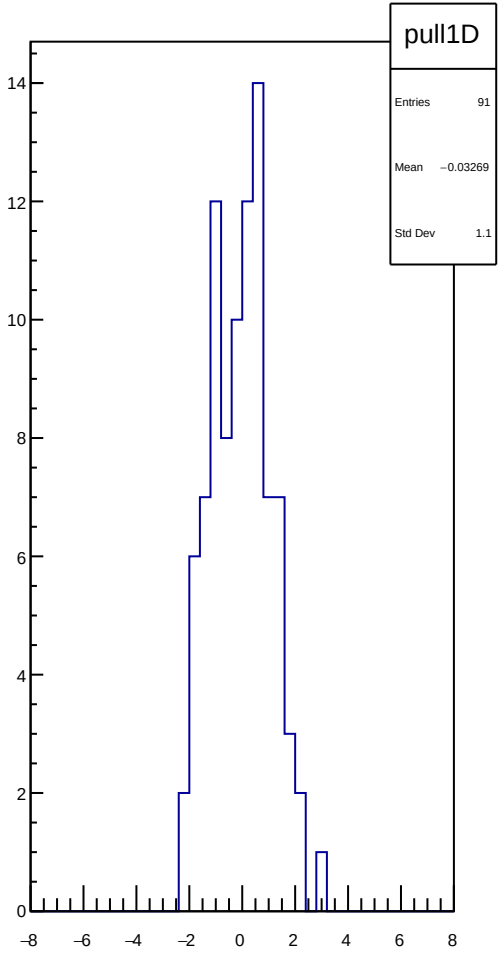

dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 2.649e+04 / 90
p0 66.5 ± 0.05067
140
130
120
110
100
90
80
70
60

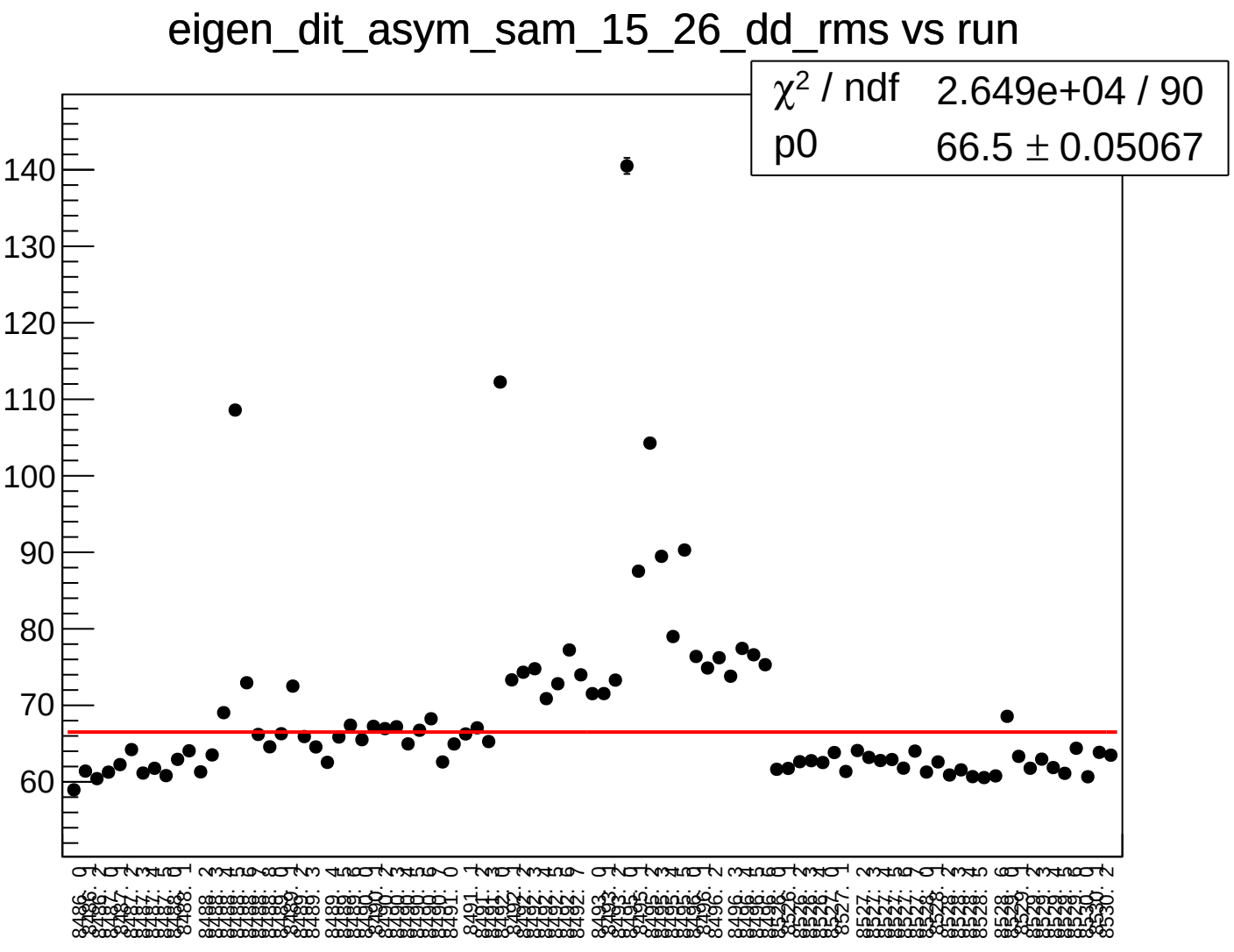

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 92.49 / 90
p0 −425.4 ± 614.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 42.54
Std Dev 7.416
3
2
1
0
−1
−2
−3

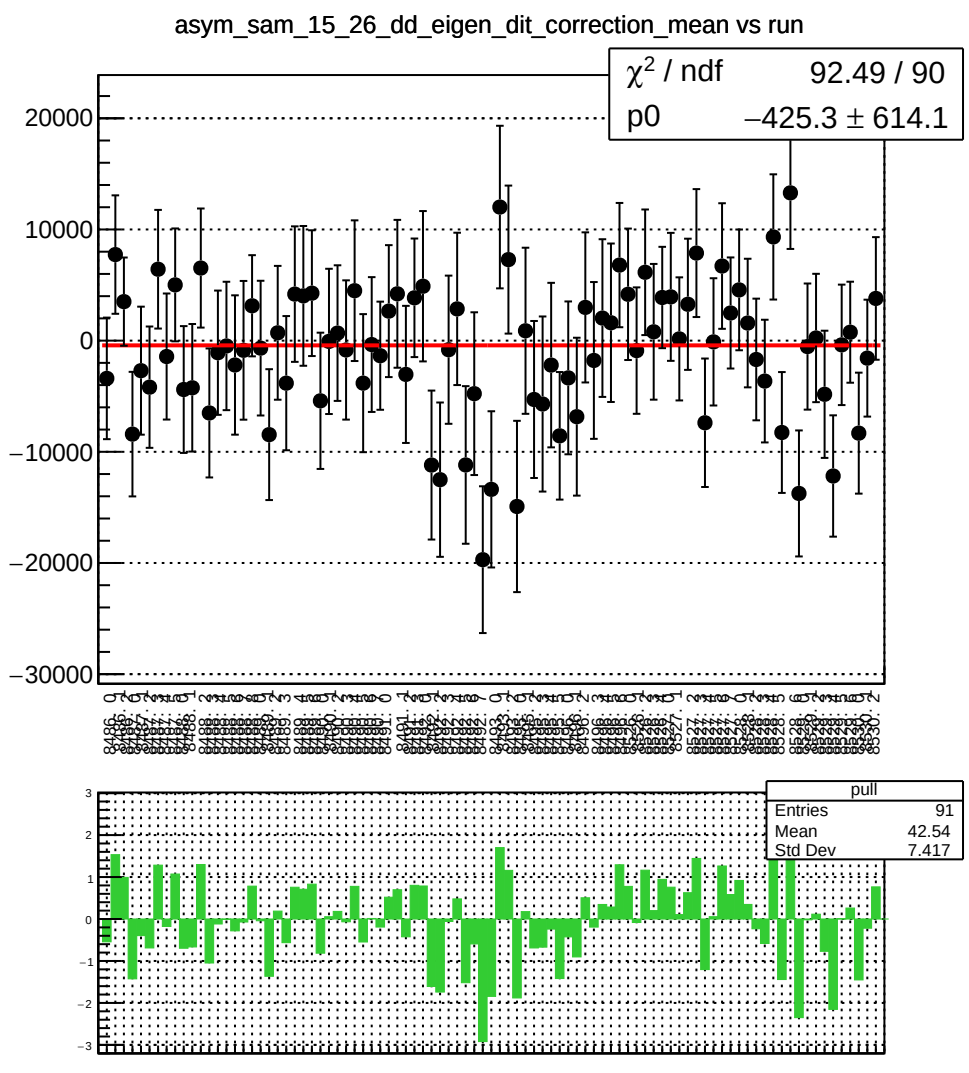

pull1D
Entries 91
Mean −0.03667
Std Dev 1.008
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

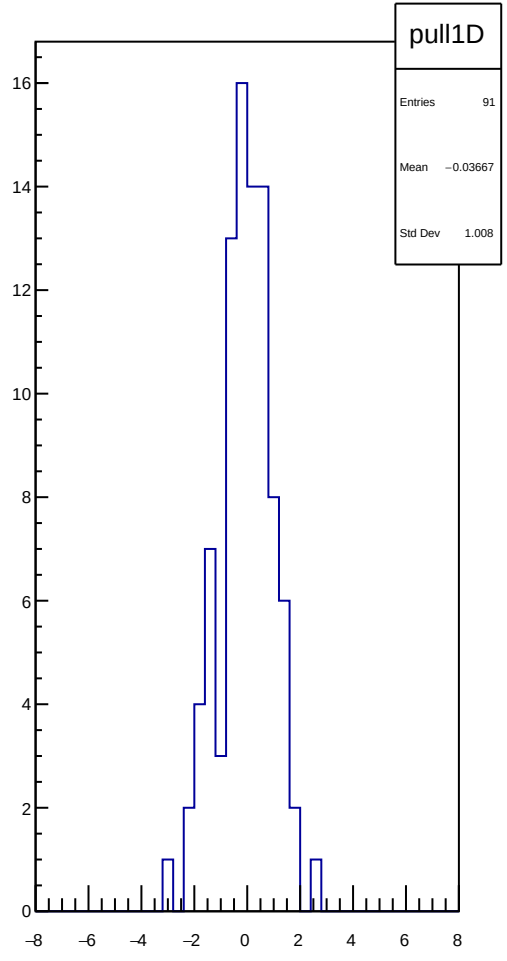

asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 1.696e+04 / 90
p0 571.5 ± 0.4342
750
700
650
600
550
500

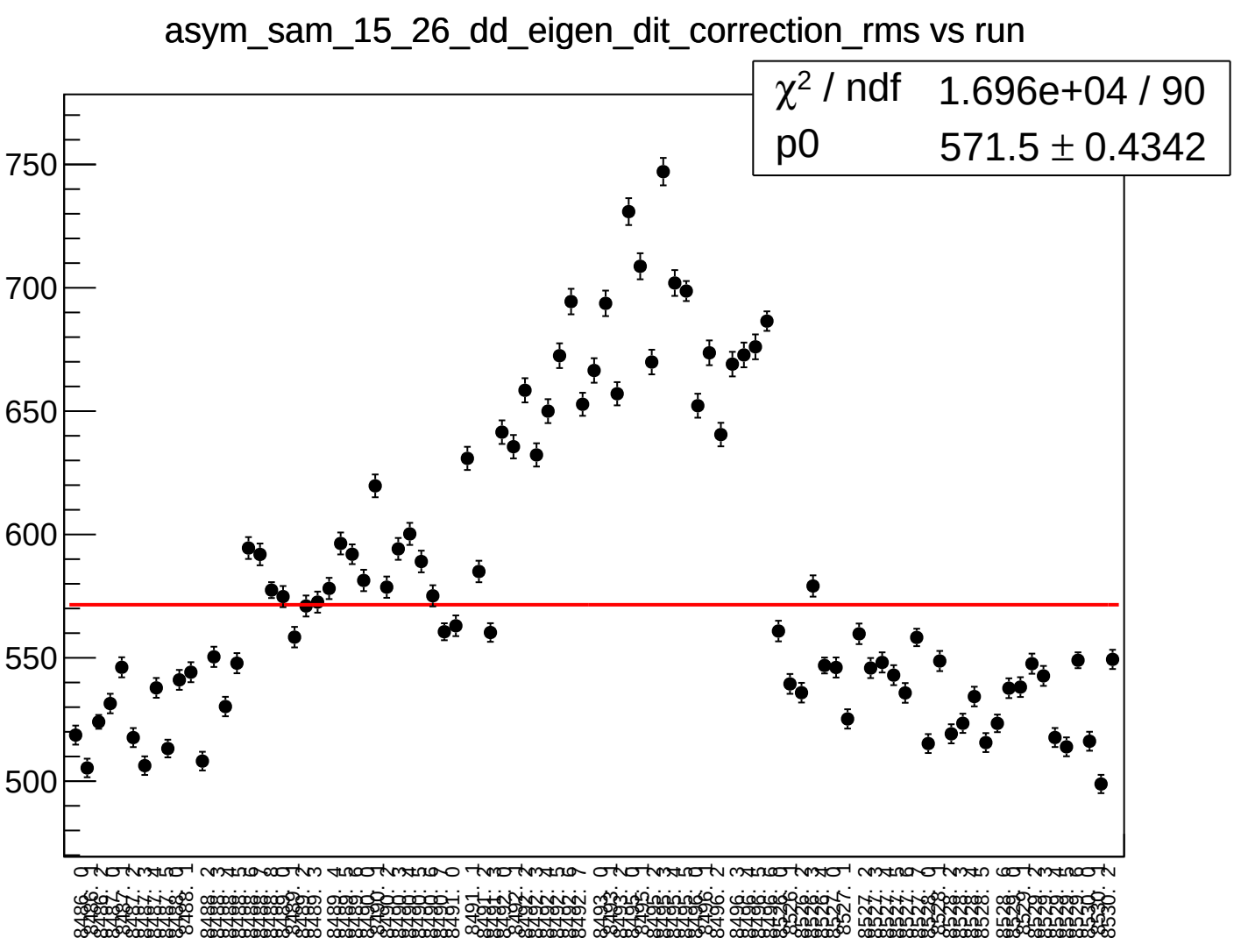

eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 110.2 / 90
p0 −96.57 ± 71.66
pull
Entries 91
Mean 65.04
Std Dev 0

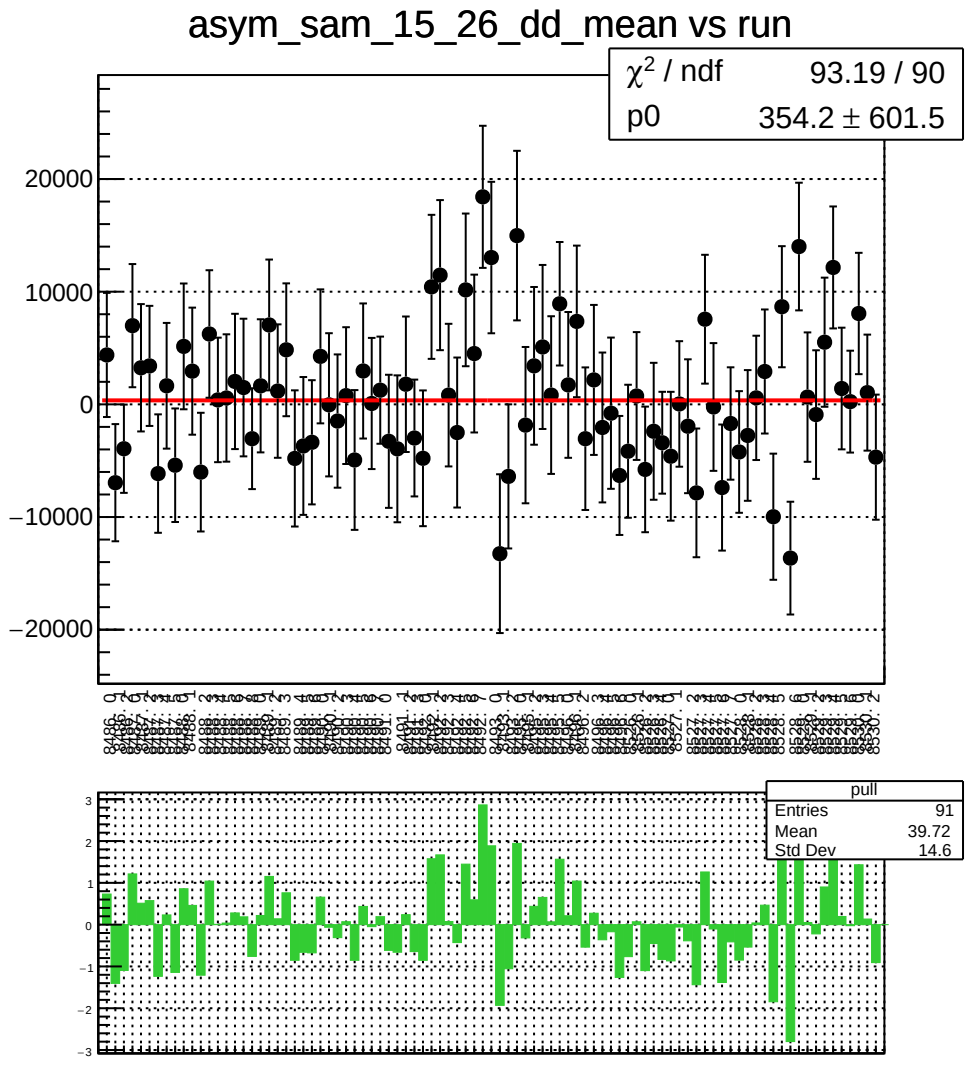

pull1D
Entries 91
Mean −0.03269
Std Dev 1.1

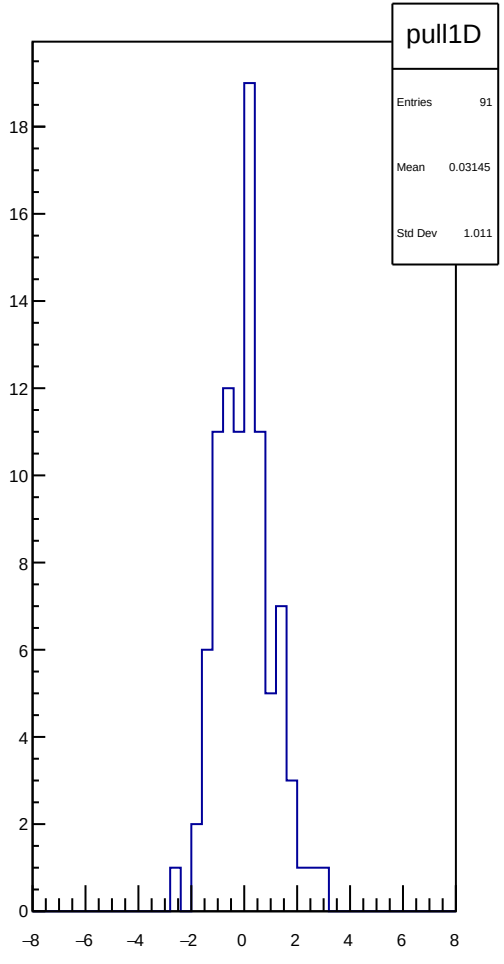

eigen_dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 2.649e+04 / 90
p0 66.5 ± 0.05067
140
130
120
110
100
90
80
70
60

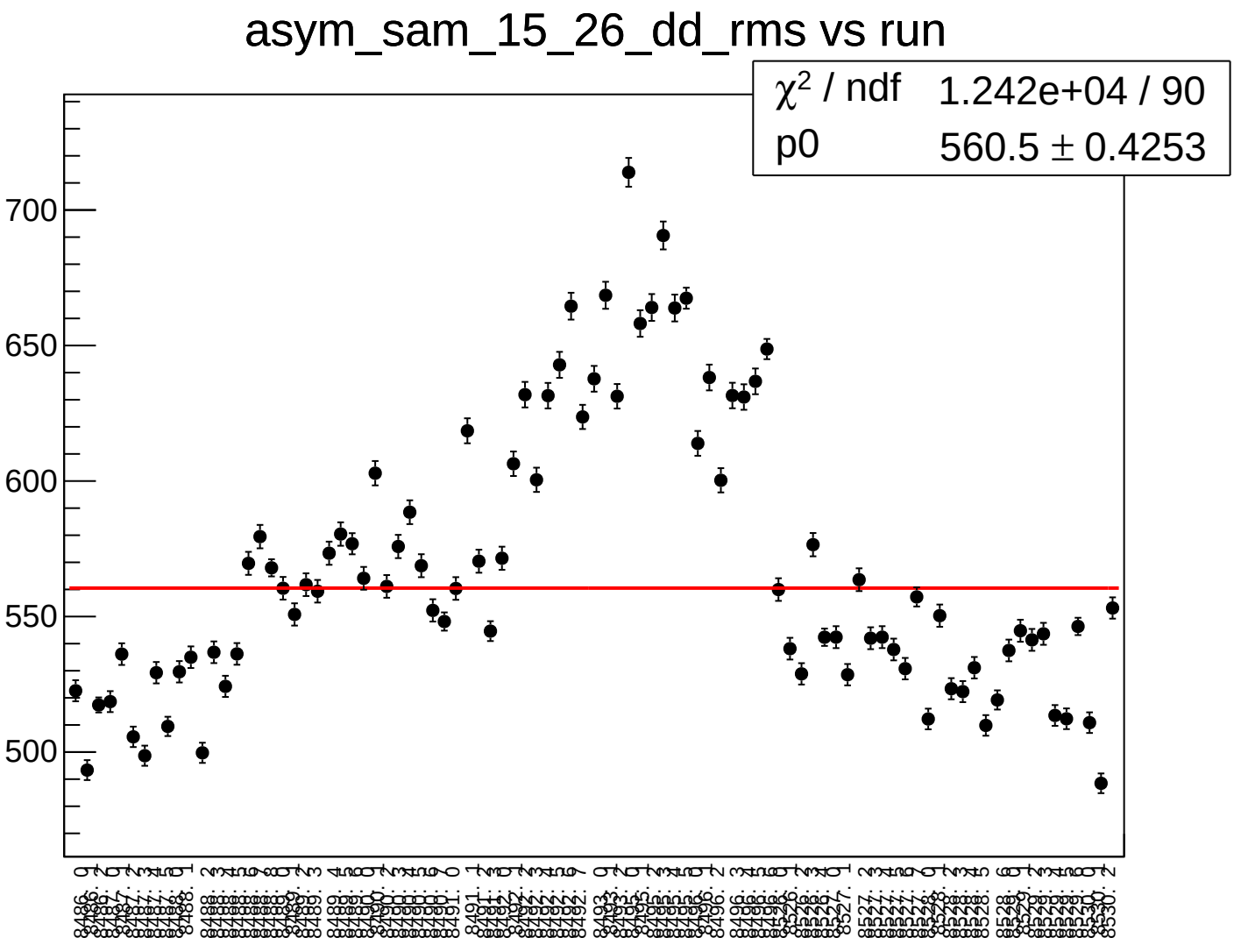

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 92.49 / 90
p0 −425.3 ± 614.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 42.54
Std Dev 7.417
3
2
1
0
−1
−2
−3

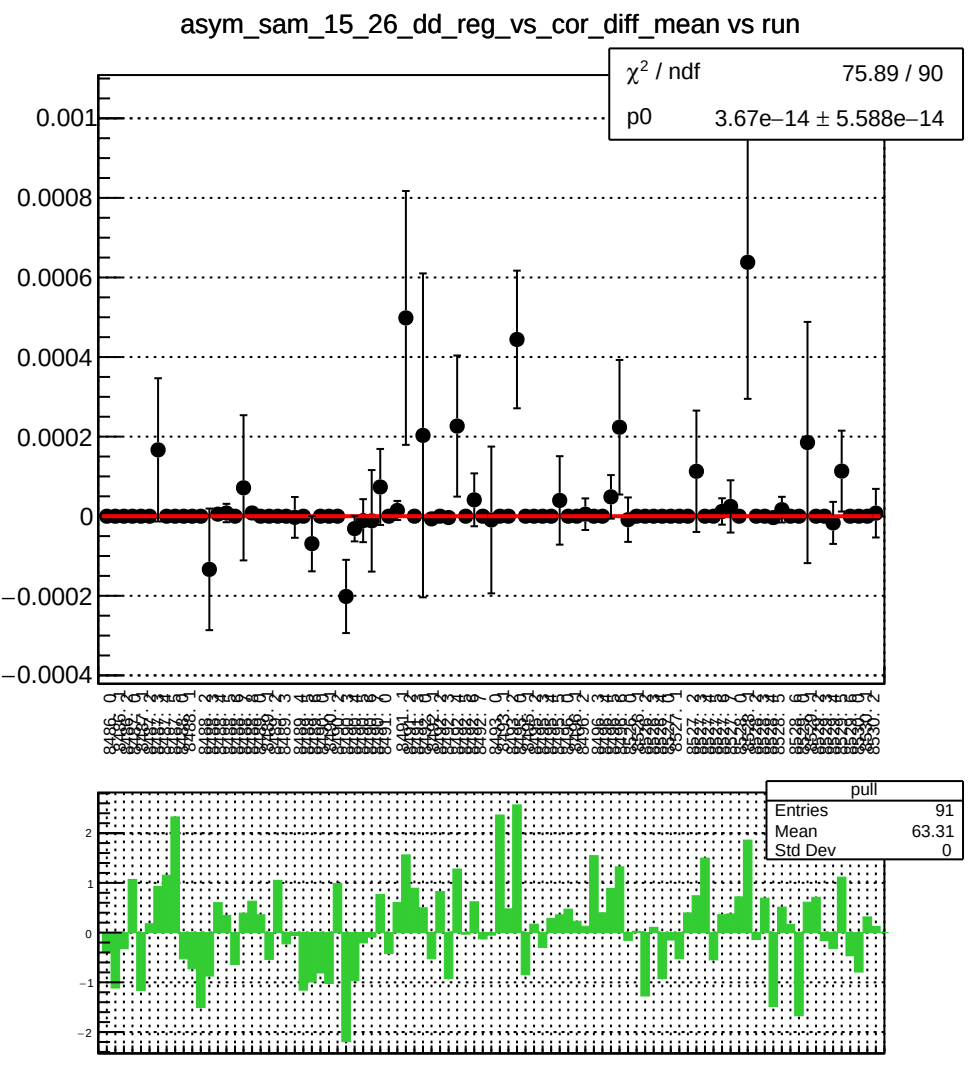

pull1D
Entries 91
Mean −0.03667
Std Dev 1.008
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

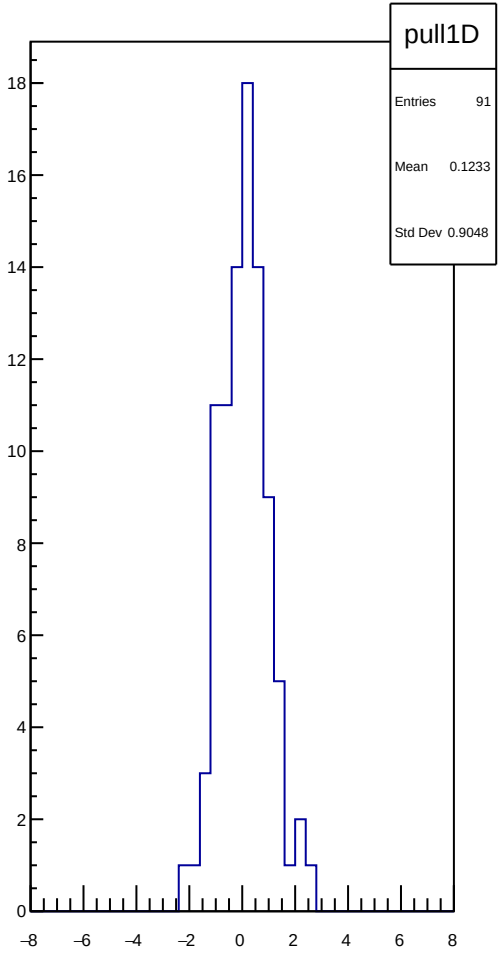

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.696e+04 / 90
p0 571.5 ± 0.4342
750
700
650
600
550
500

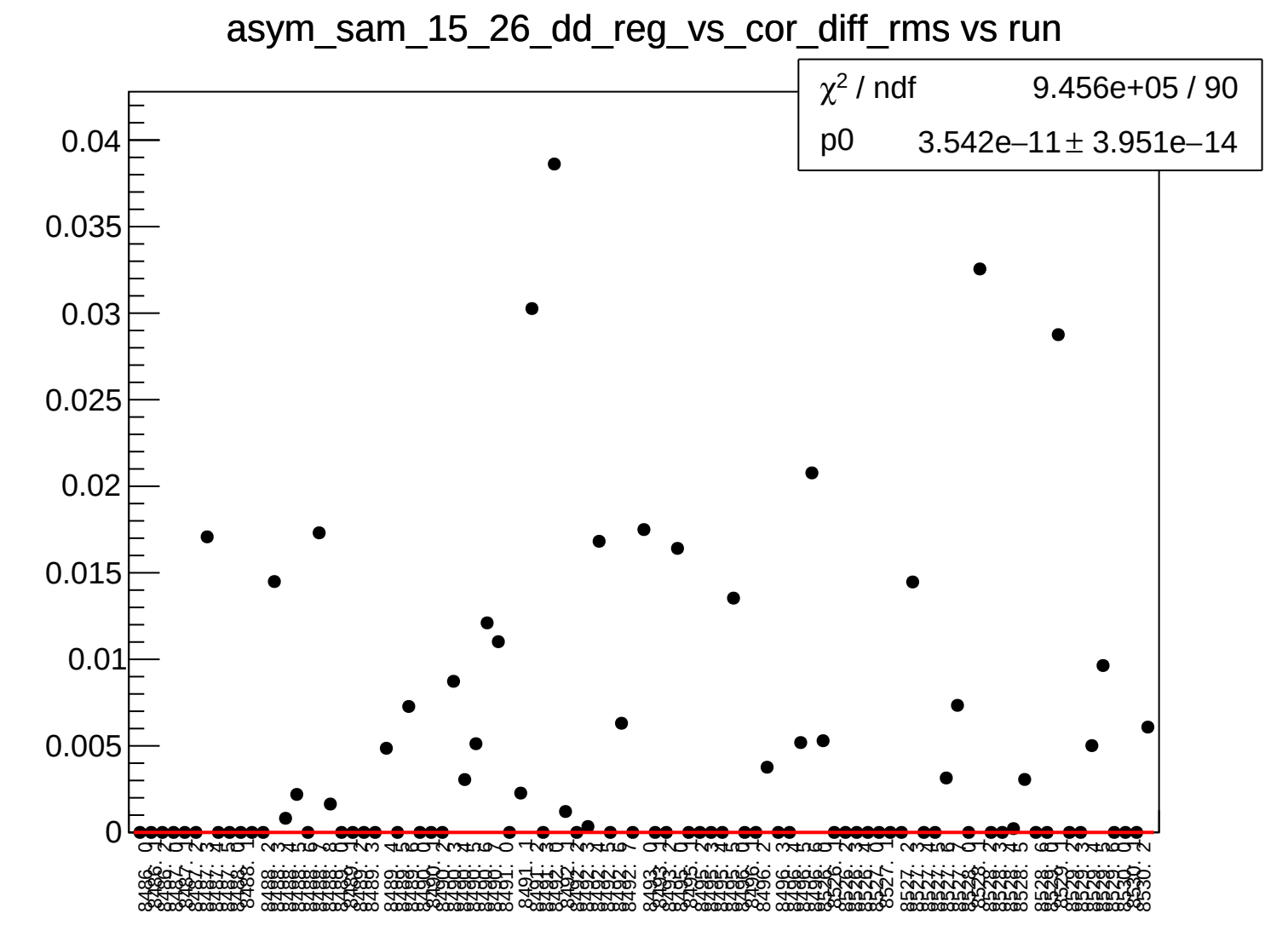

asym_sam_15_26_dd_mean vs run
χ² / ndf 93.19 / 90
p0 354.2 ± 601.5
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 39.72
Std Dev 14.6
3
2
1
0
−1
−2
−3

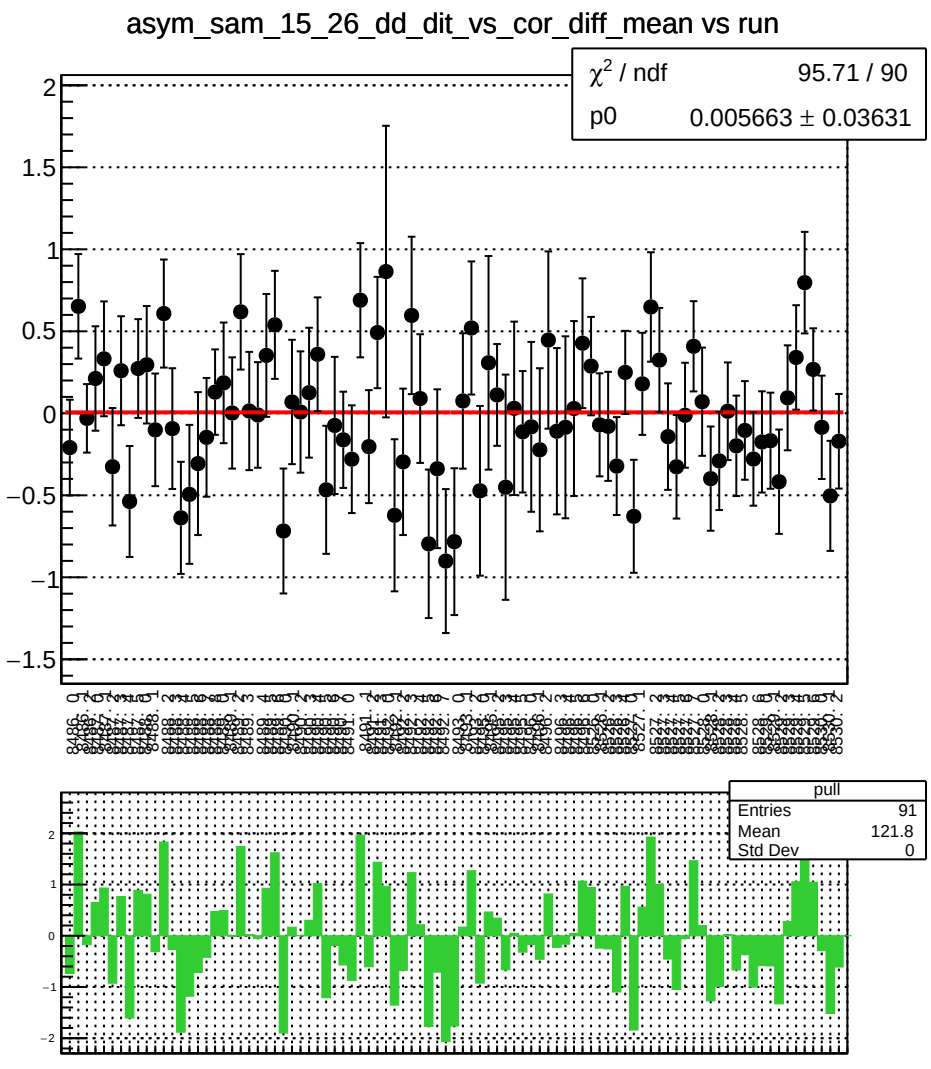

pull1D
Entries 91
Mean 0.03145
Std Dev 1.011
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

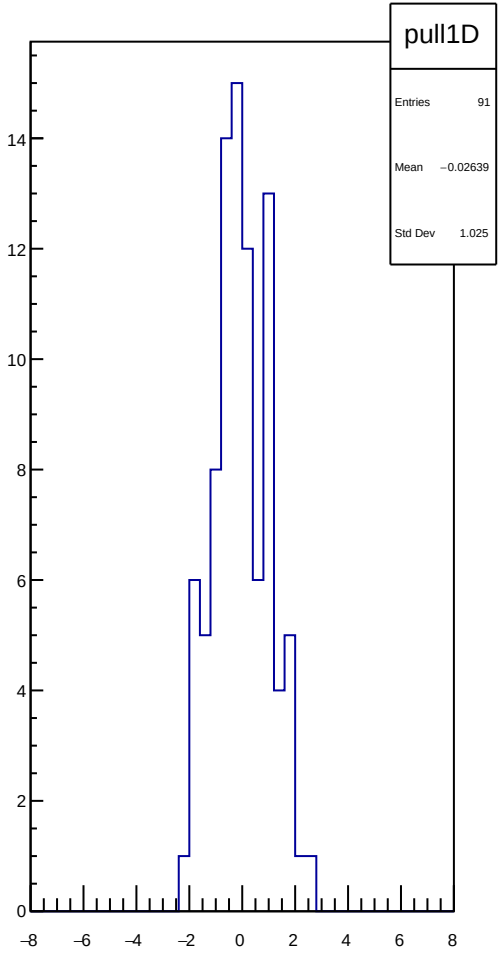

asym_sam_15_26_dd_rms vs run
χ² / ndf 1.242e+04 / 90
p0 560.5 ± 0.4253
700
650
600
550
500

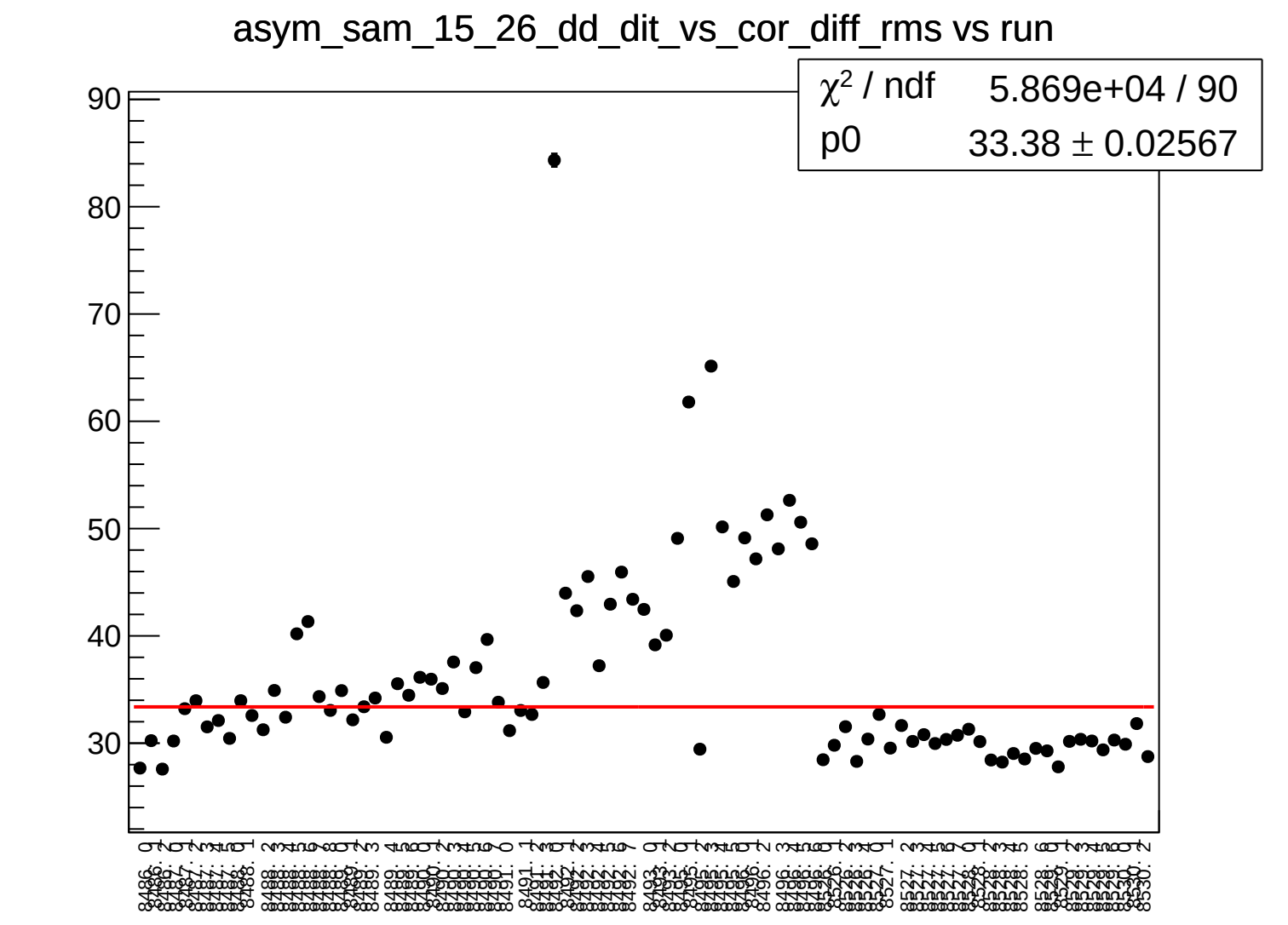

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 75.89 / 90
p0 3.67e−14 ± 5.588e−14
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
pull
Entries 91
Mean 63.31
Std Dev 0
2
1
0
−1
−2

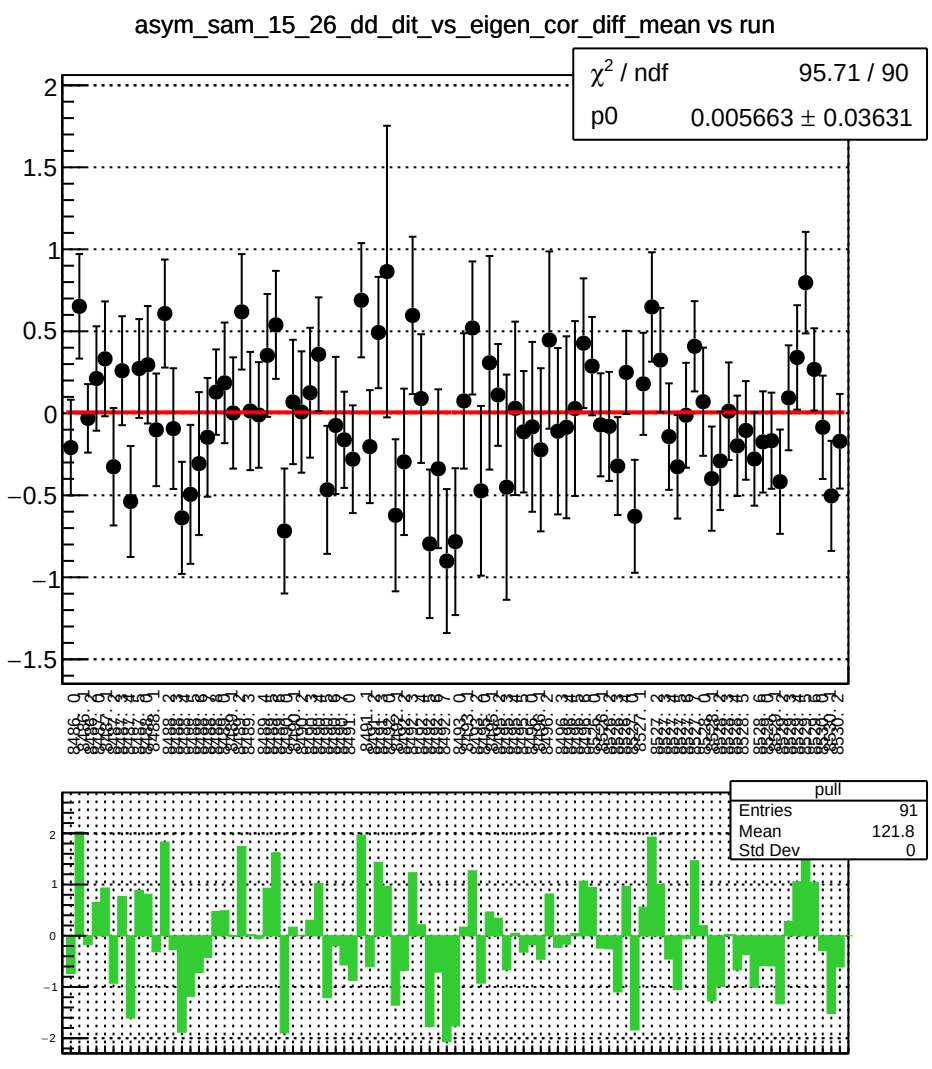

pull1D
Entries 91
Mean 0.1233
Std Dev 0.9048
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

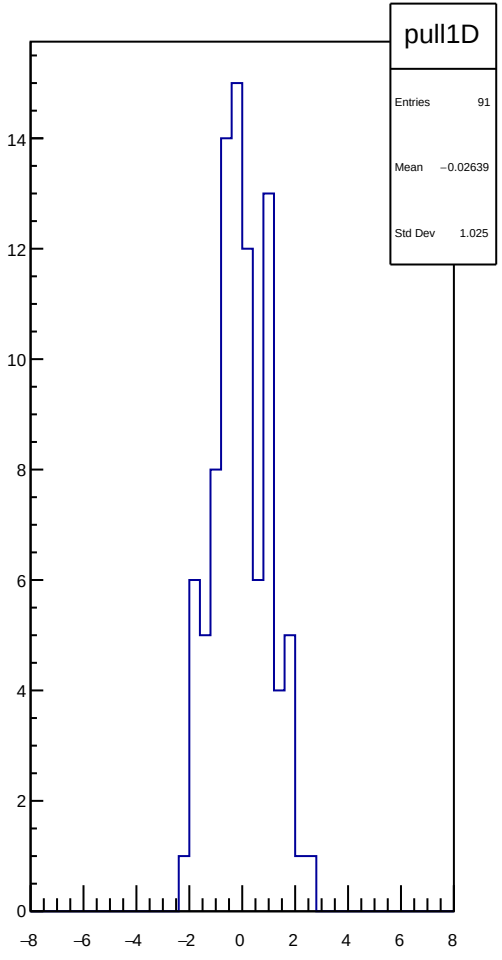

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.456e+05 / 90
p0 3.542e−11 ± 3.951e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

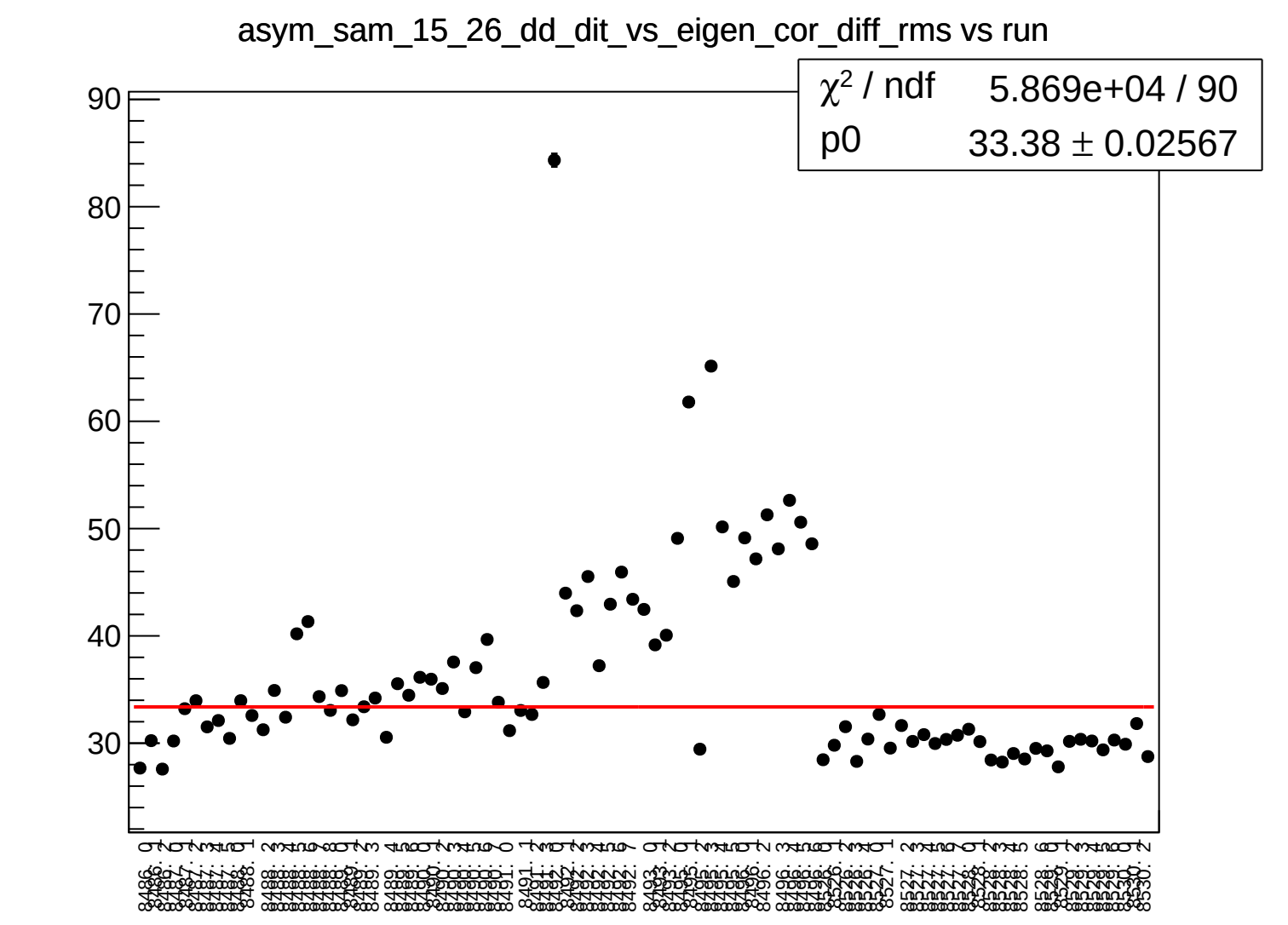

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 95.71 / 90
p0 0.005663 ± 0.03631
pull
Entries 91
Mean 121.8
Std Dev 0

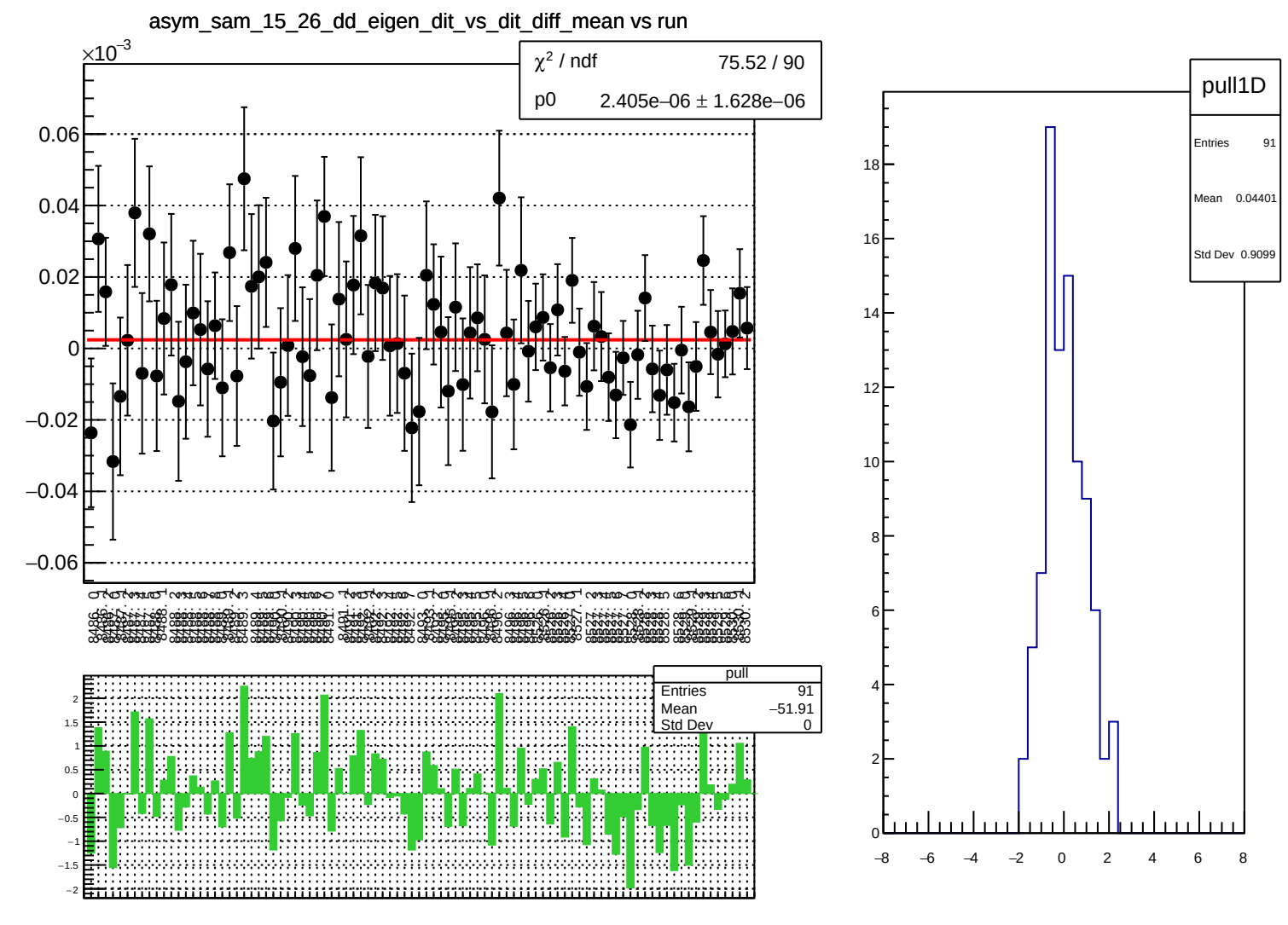

pull1D
Entries 91
Mean −0.02639
Std Dev 1.025

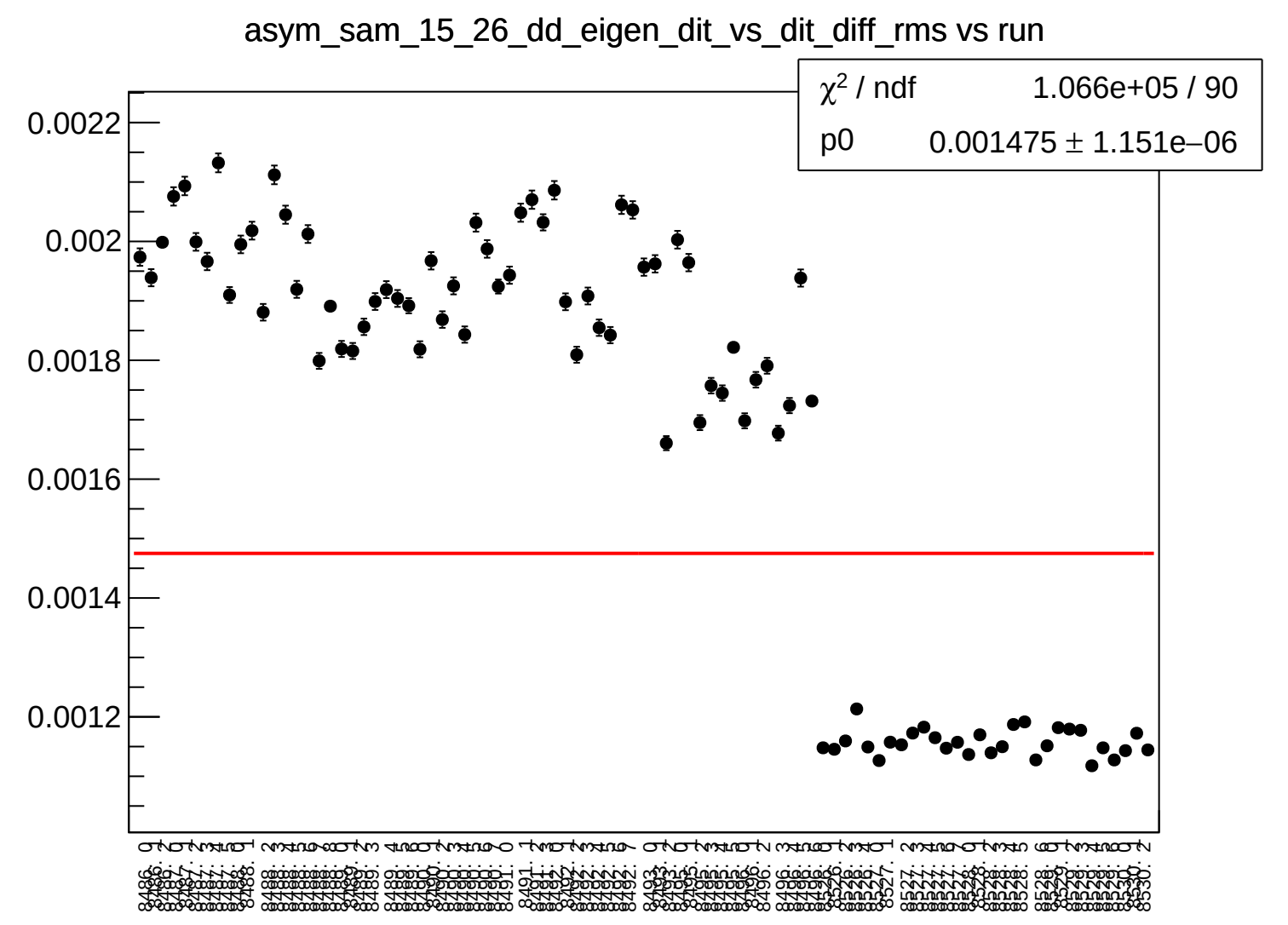

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.869e+04 / 90
p0 33.38 ± 0.02567
90
80
70
60
50
40
30

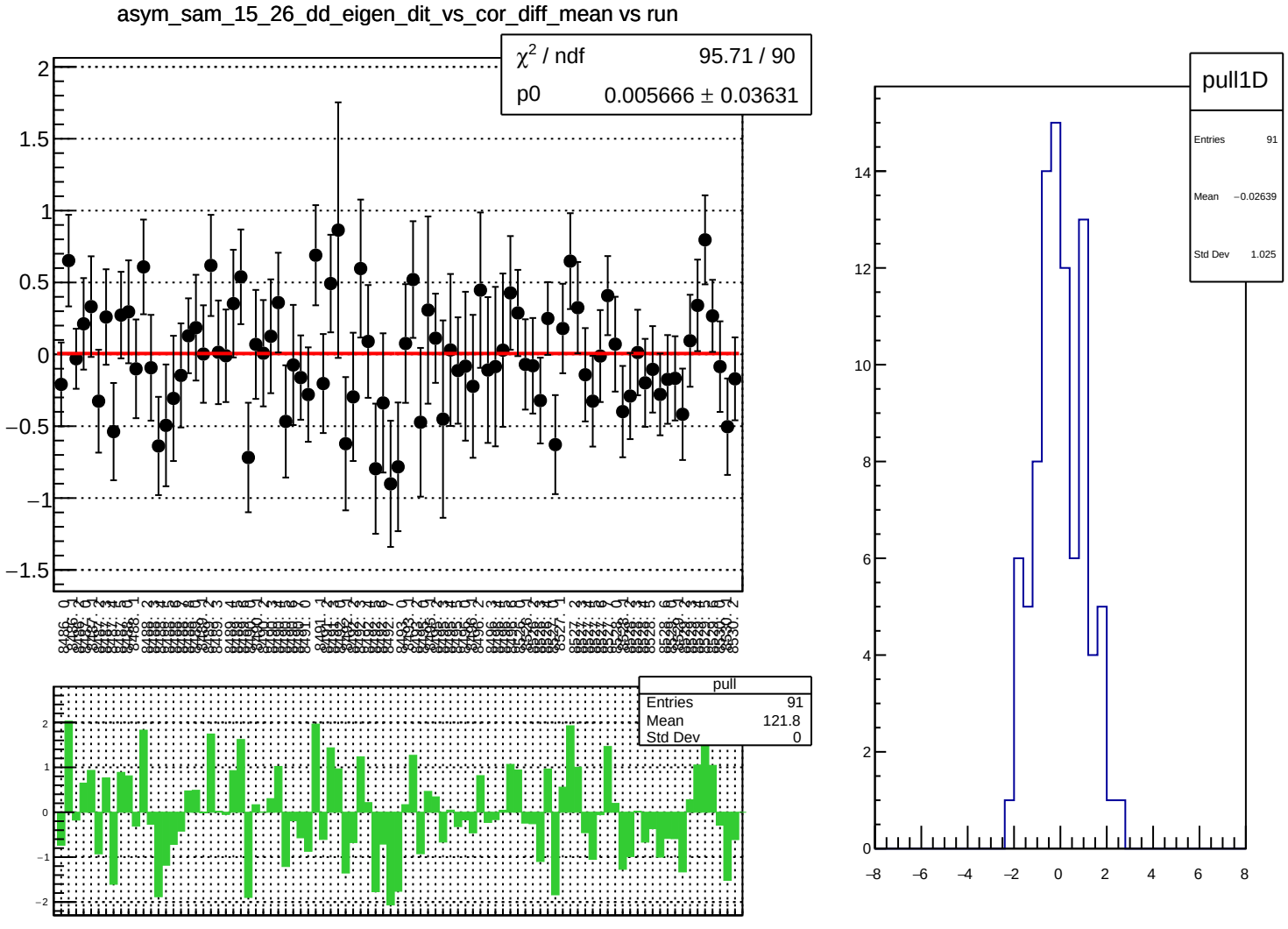

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.71 / 90
p0 0.005663 ± 0.03631
pull
Entries 91
Mean 121.8
Std Dev 0

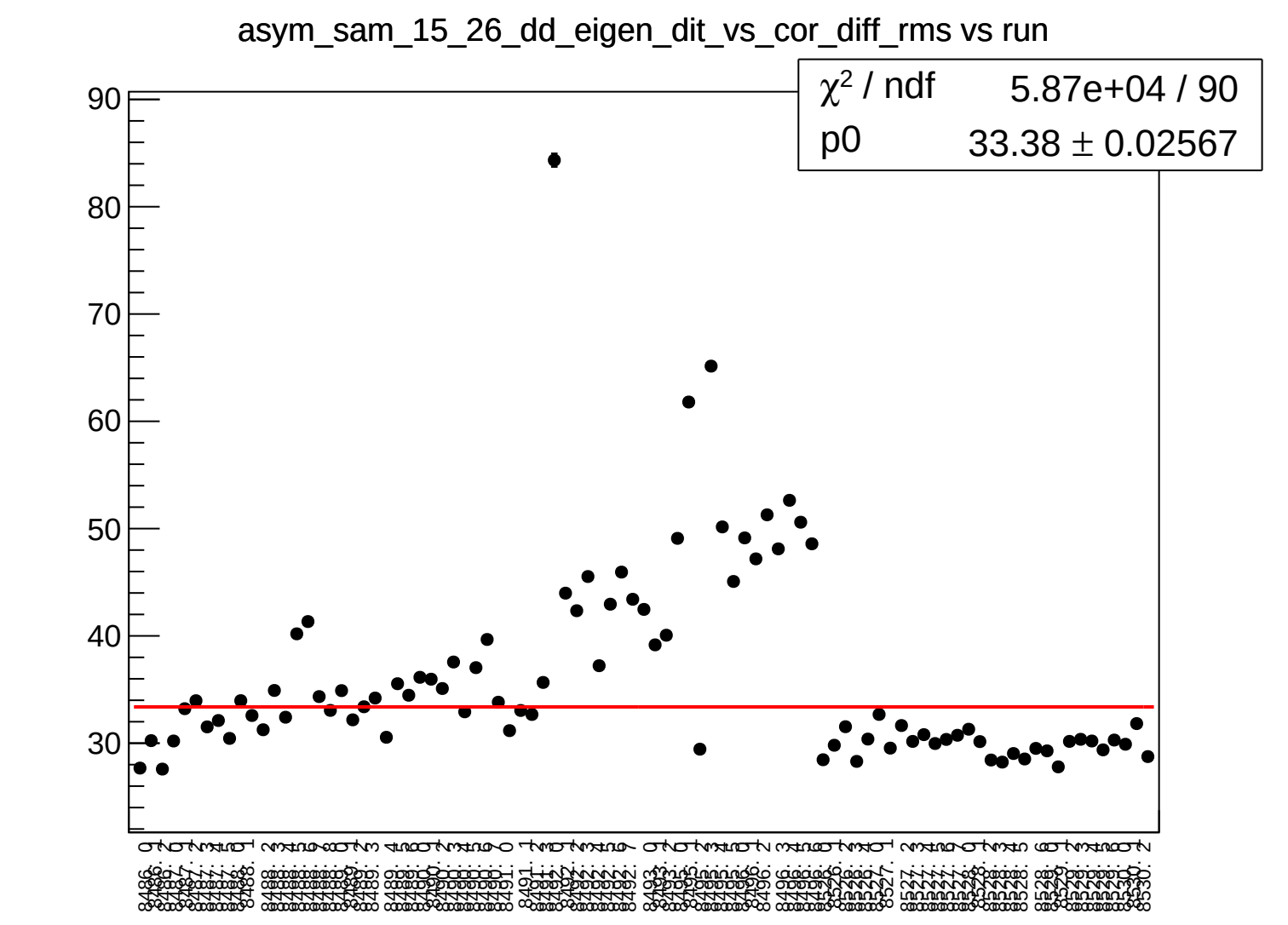

pull1D
Entries 91
Mean −0.02639
Std Dev 1.025

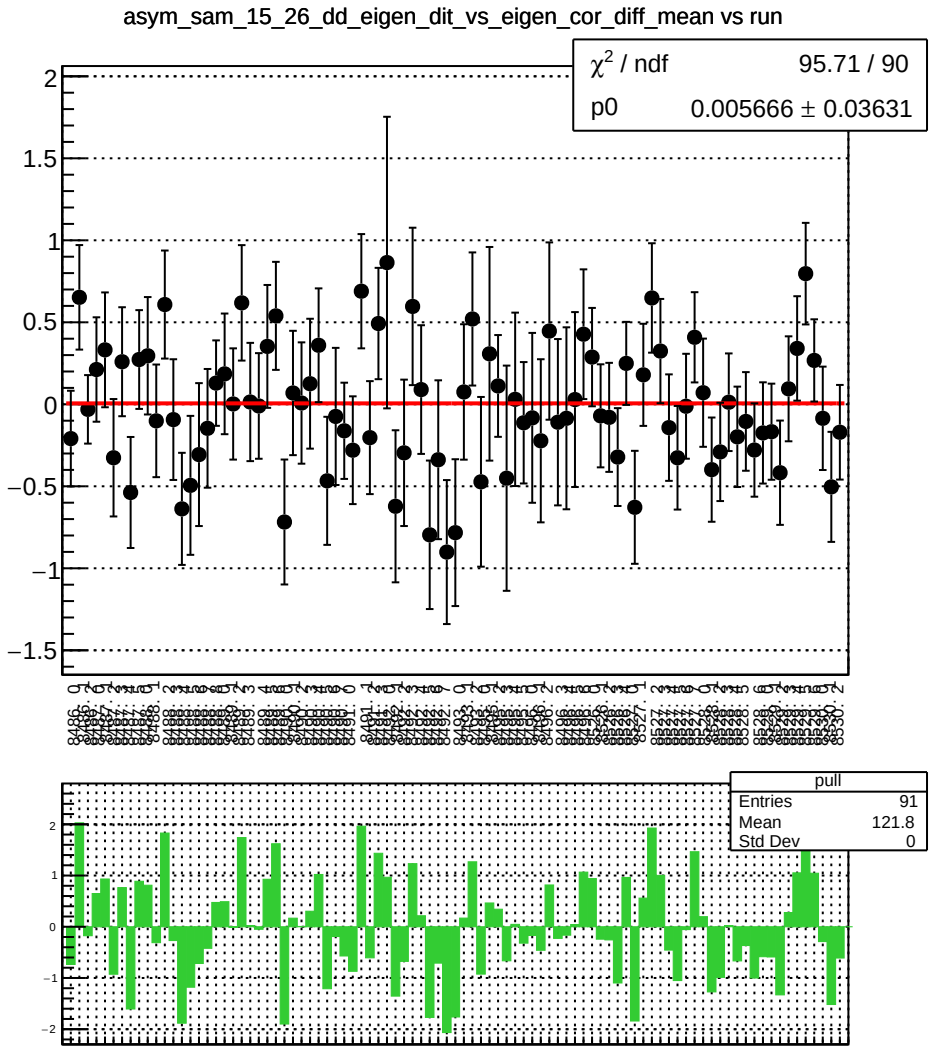

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.869e+04 / 90
p0 33.38 ± 0.02567
90
80
70
60
50
40
30

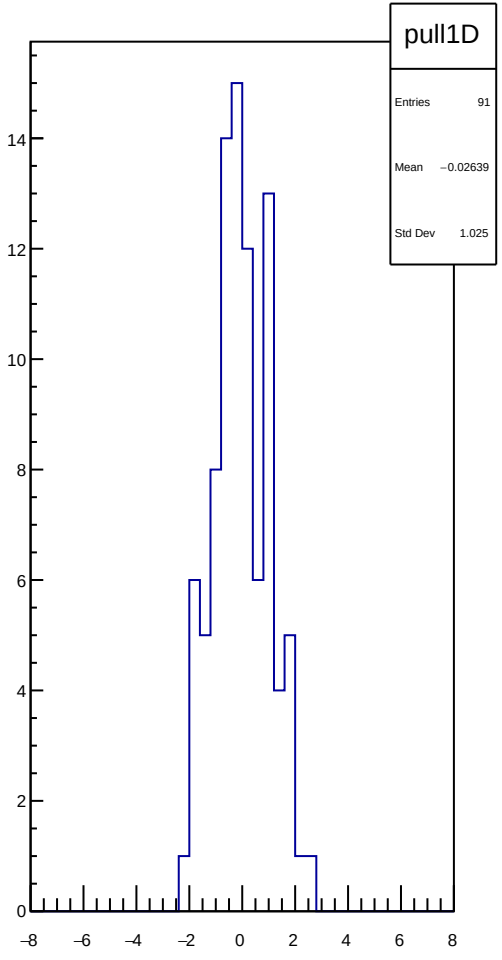

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 75.52 / 90
p0 2.405e−06 ± 1.628e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 91
Mean −51.91
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 91
Mean 0.04401
Std Dev 0.9099
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

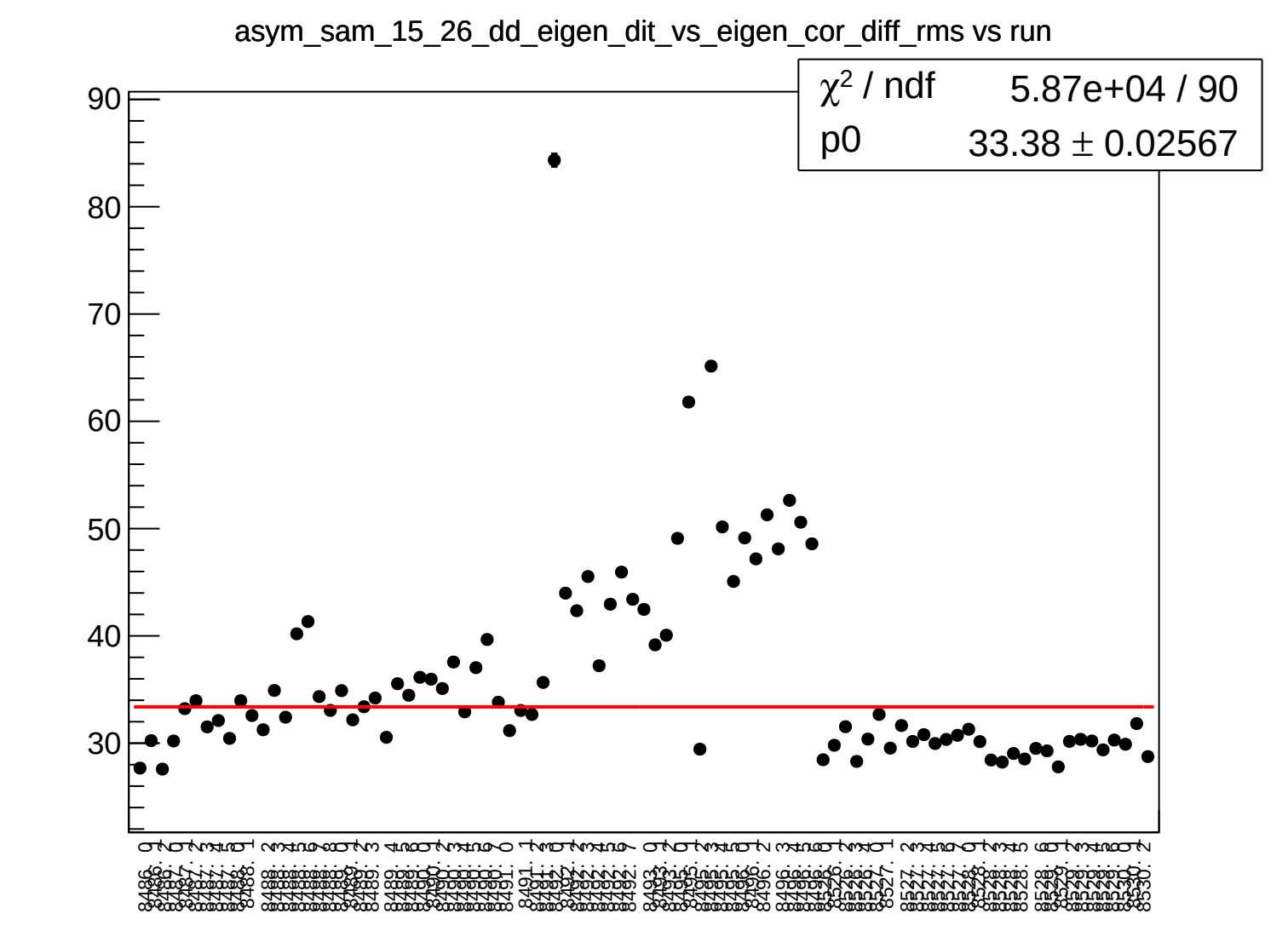

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.066e+05 / 90
p0 0.001475 ± 1.151e−06
0.0022
0.002
0.0018
0.0016
0.0014
0.0012

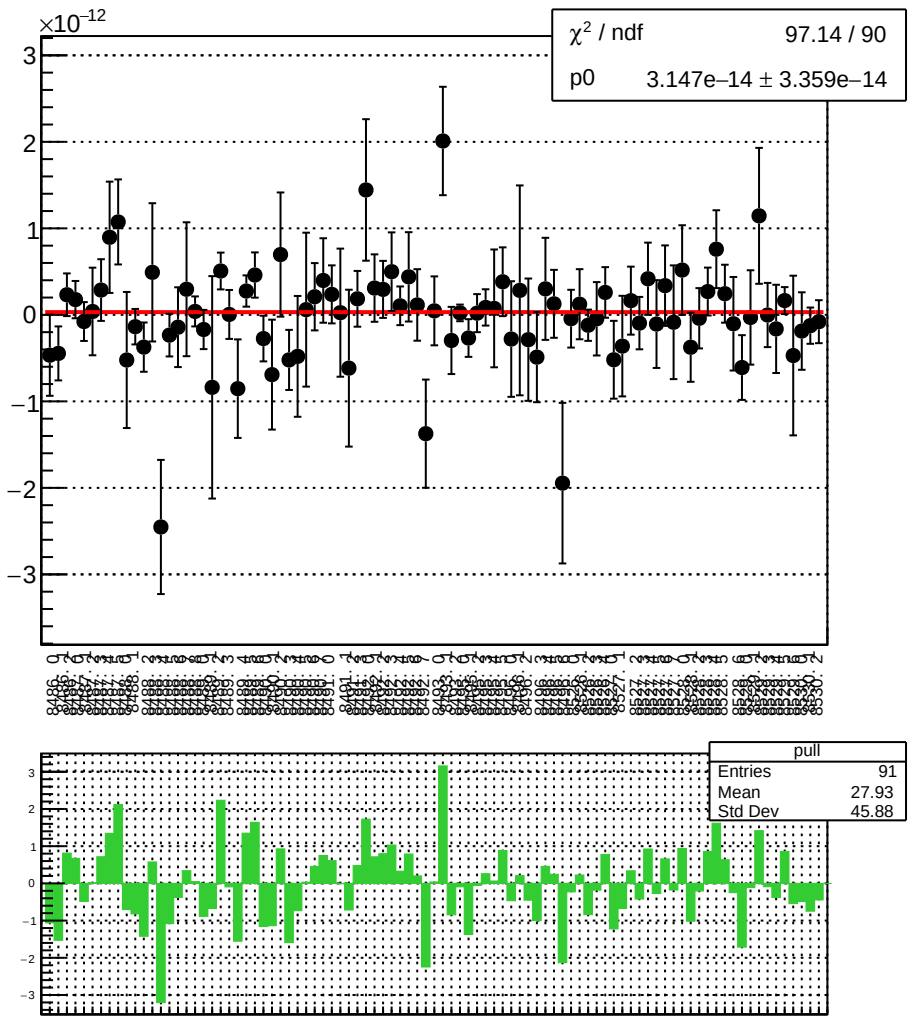

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.71 / 90
p0 0.005666 ± 0.03631
pull
Entries 91
Mean 121.8
Std Dev 0
pull1D
Entries 91
Mean −0.02639
Std Dev 1.025

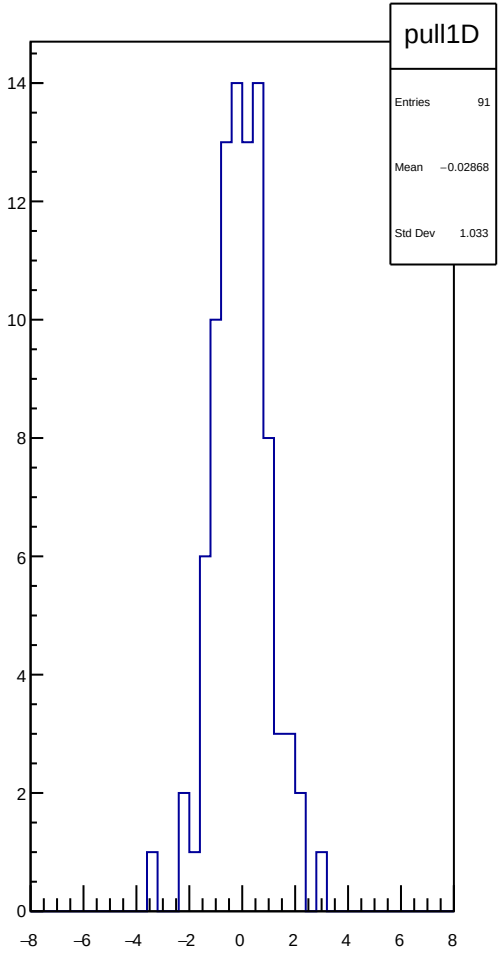

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.87e+04 / 90
p0 33.38 ± 0.02567
90
80
70
60
50
40
30

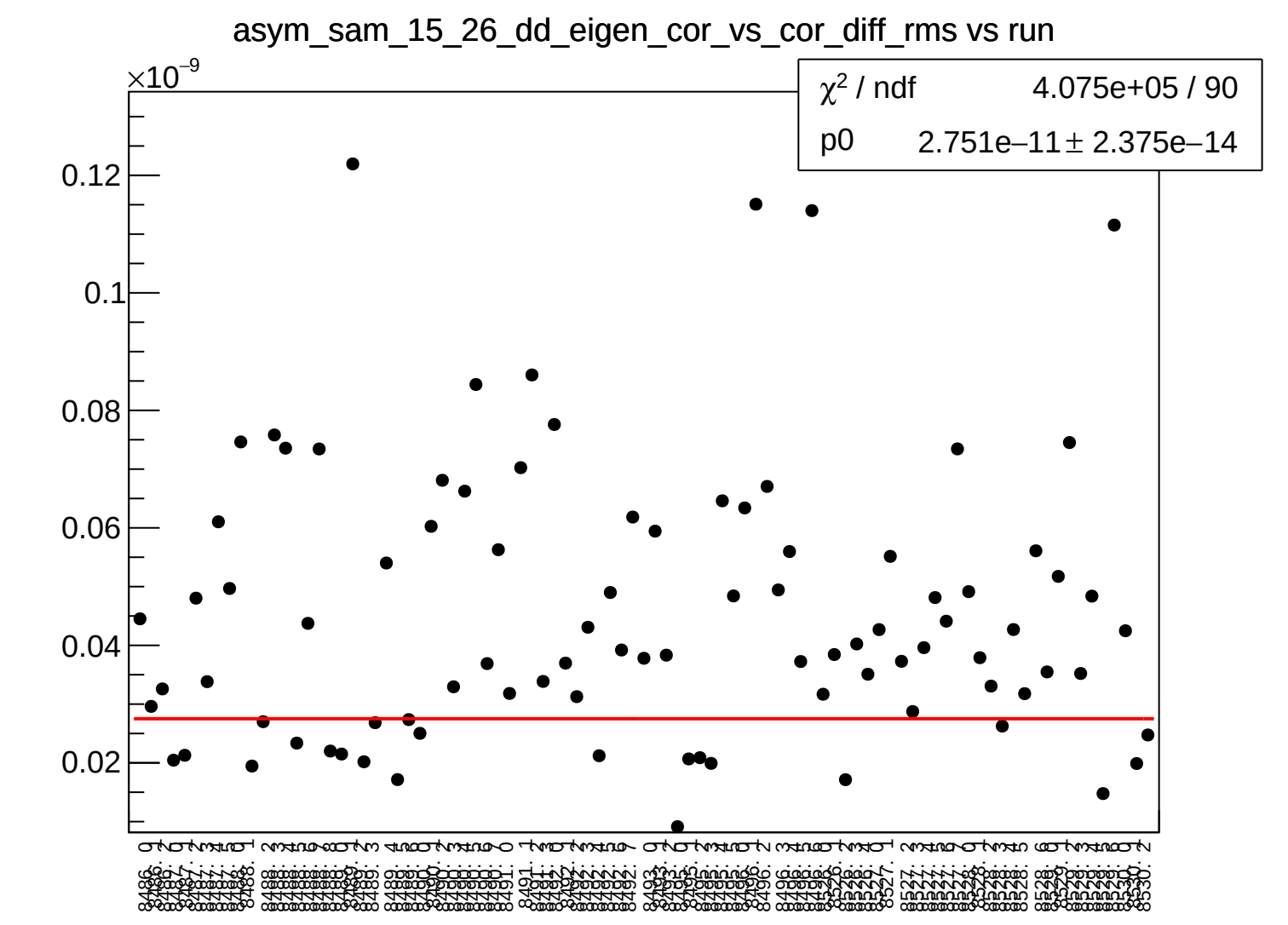

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.71 / 90
p0 0.005666 ± 0.03631
pull
Entries 91
Mean 121.8
Std Dev 0

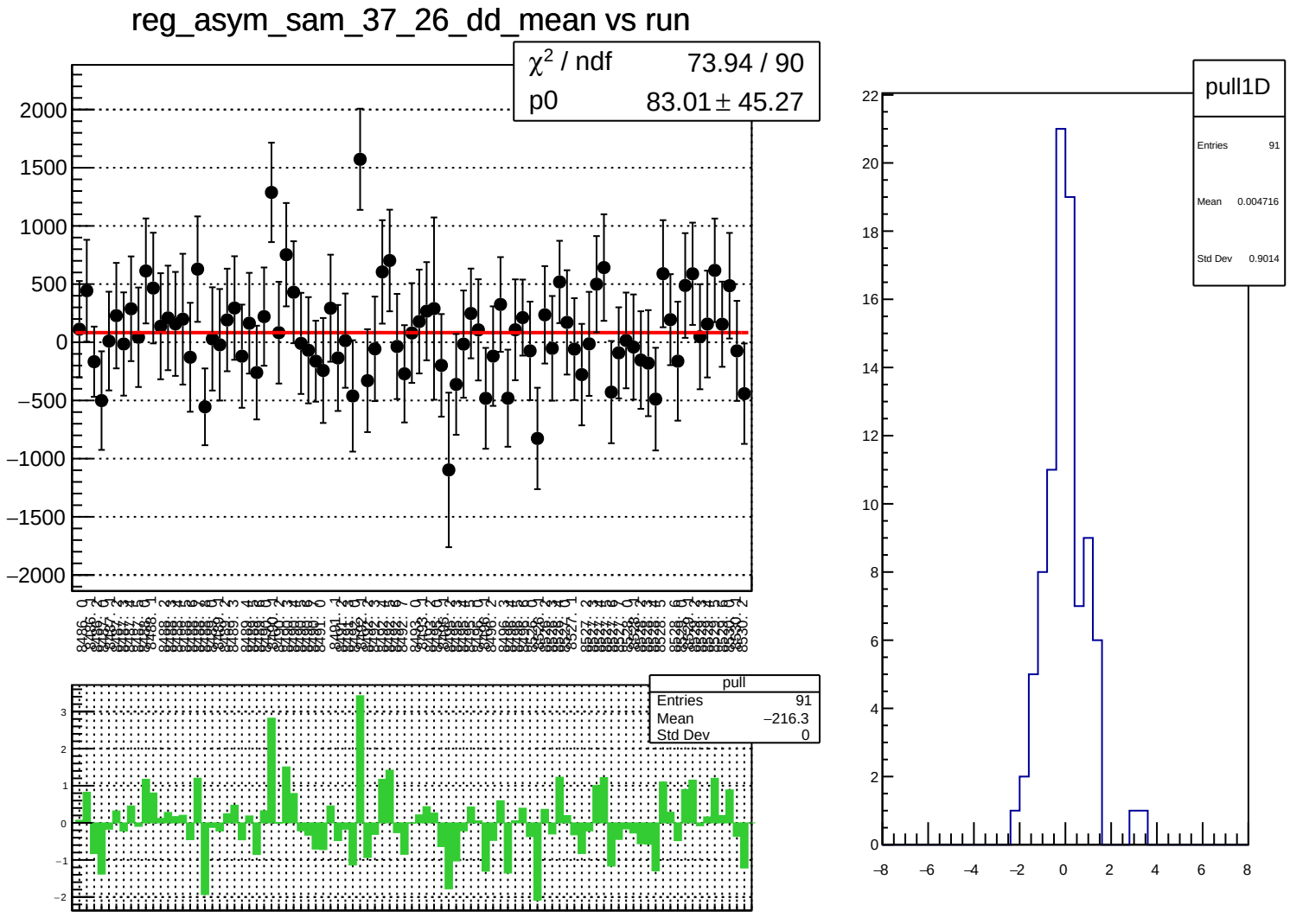

pull1D
Entries 91
Mean −0.02639
Std Dev 1.025

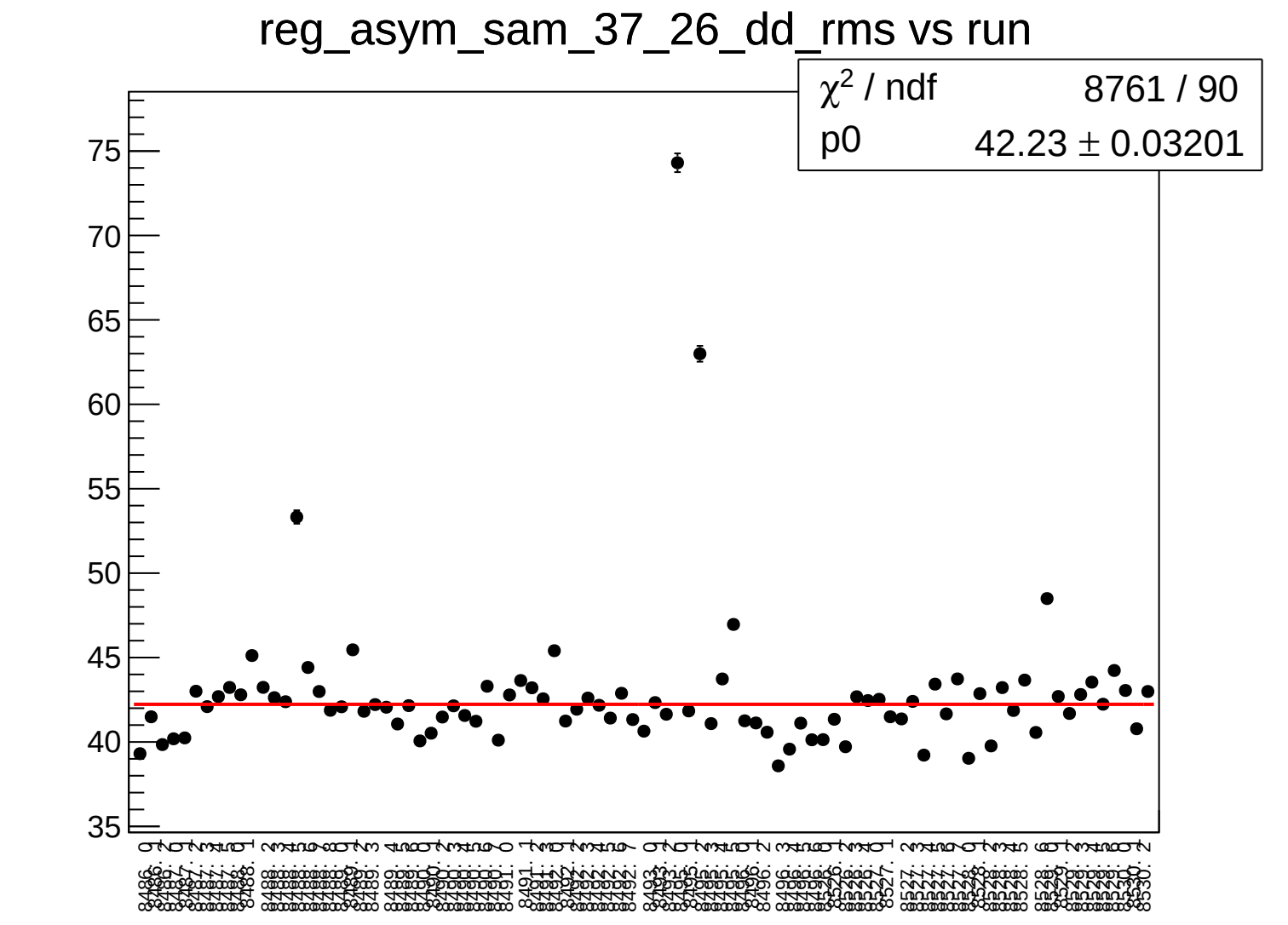

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.87e+04 / 90
p0 33.38 ± 0.02567
90
80
70
60
50
40
30

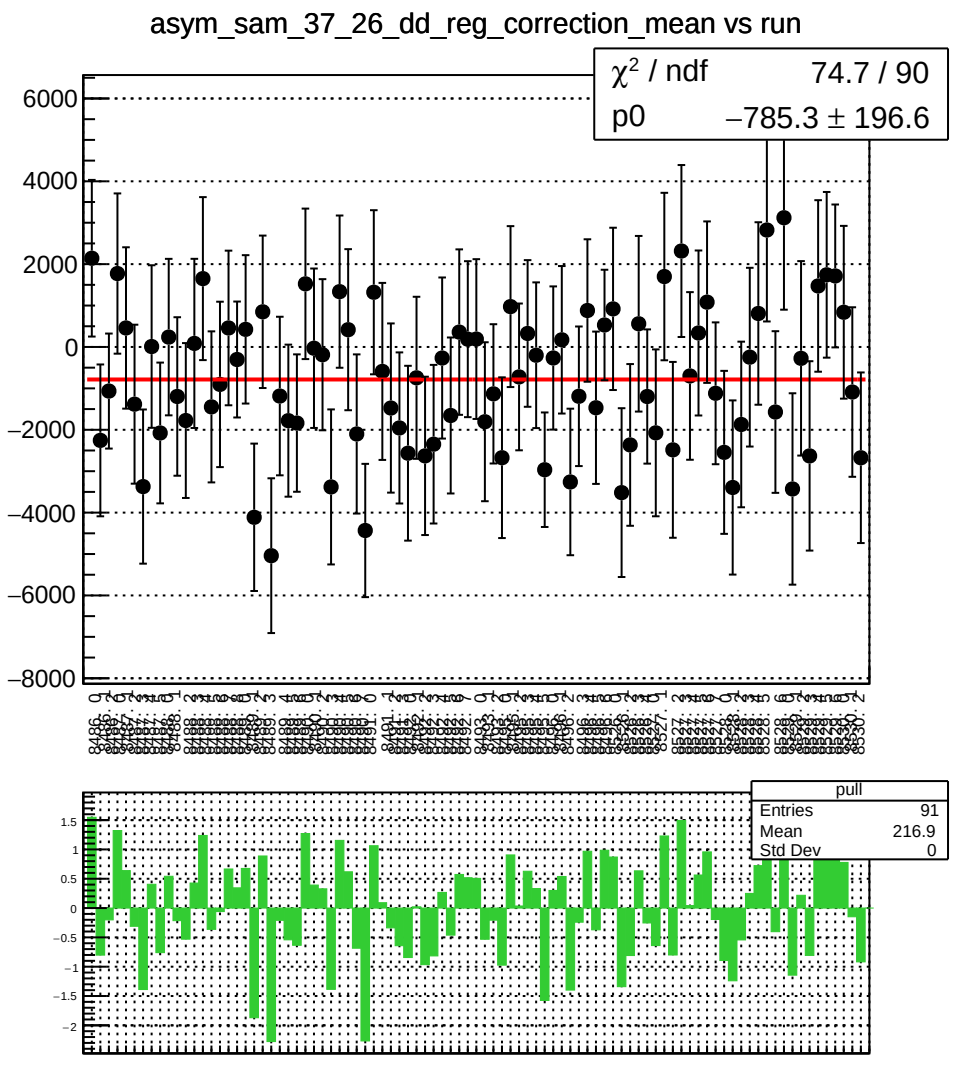

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.14 / 90
p0 3.147e−14 ± 3.359e−14
pull
Entries 91
Mean 27.93
Std Dev 45.88

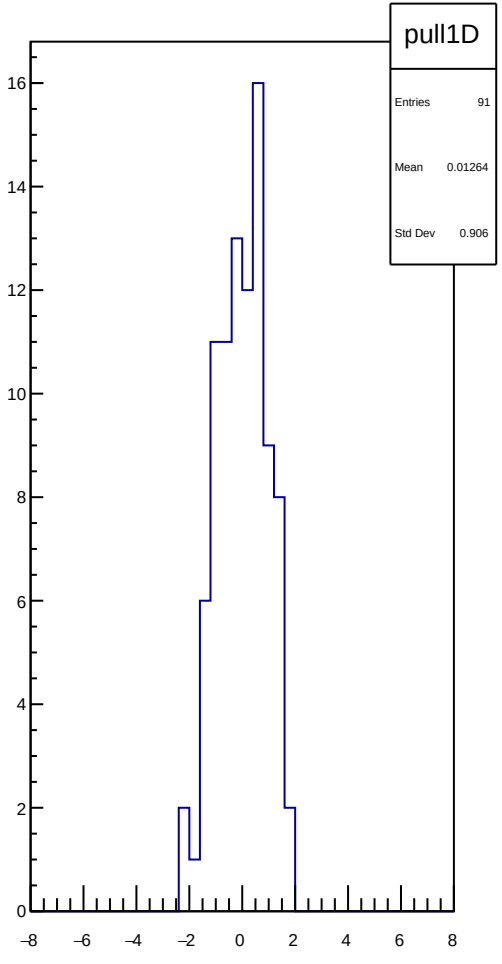

pull1D
Entries 91
Mean −0.02868
Std Dev 1.033

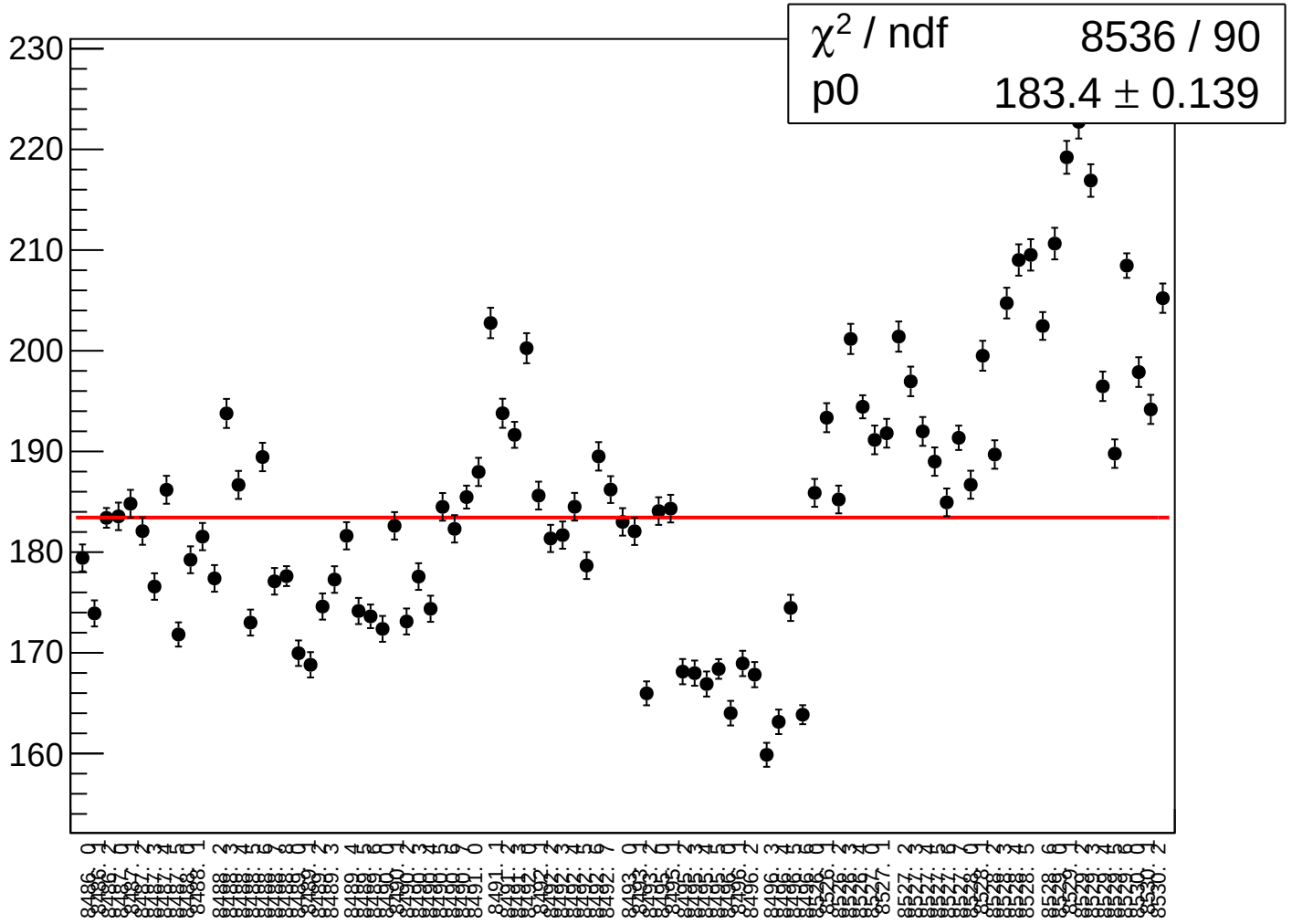

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.075e+05 / 90
p0 2.751e−11 ± 2.375e−14
0.12
0.1
0.08
0.06
0.04
0.02

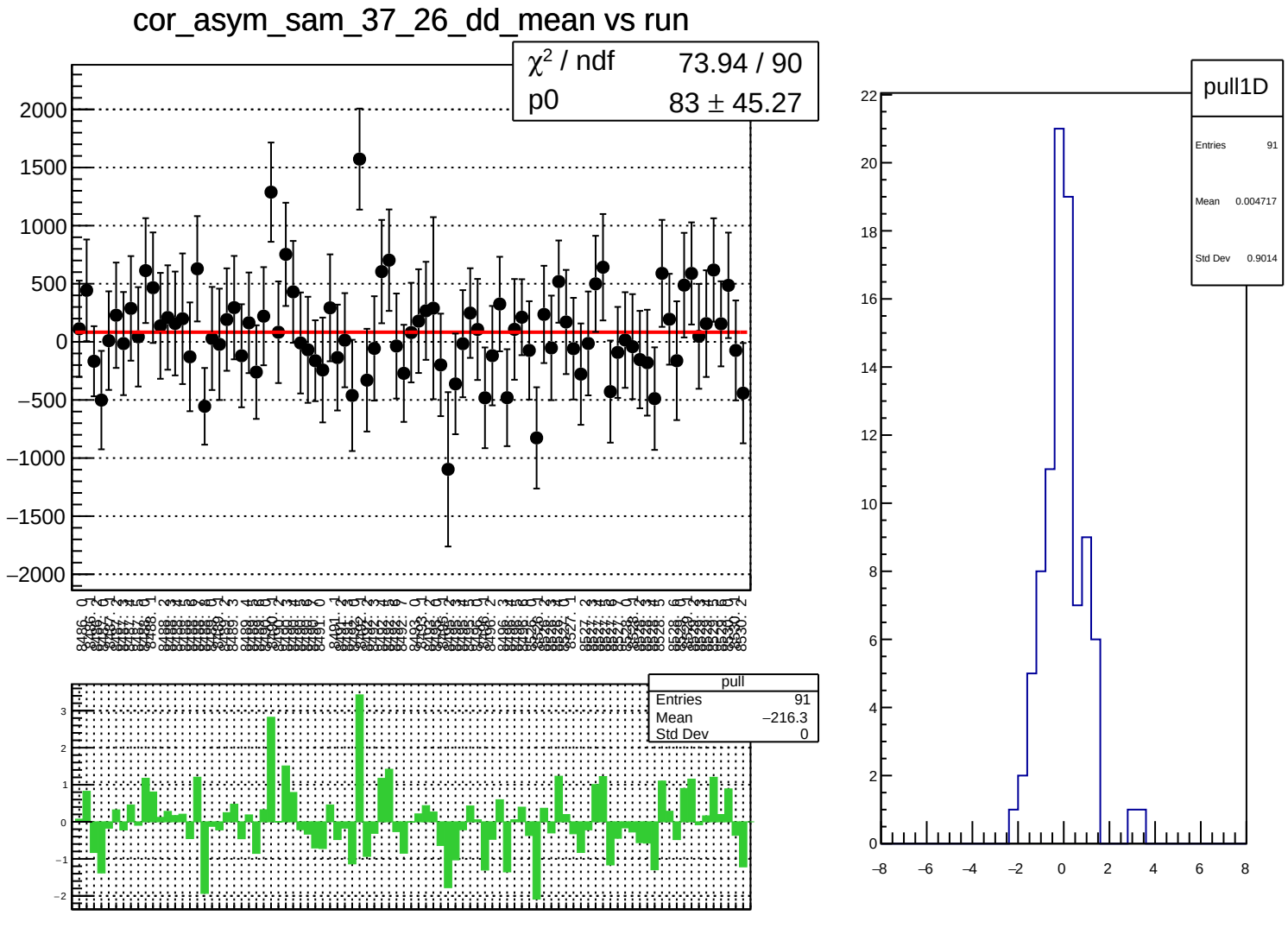

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 73.94 / 90
p0 83.01 ± 45.27
pull
Entries 91
Mean −216.3
Std Dev 0
pull1D
Entries 91
Mean 0.004716
Std Dev 0.9014

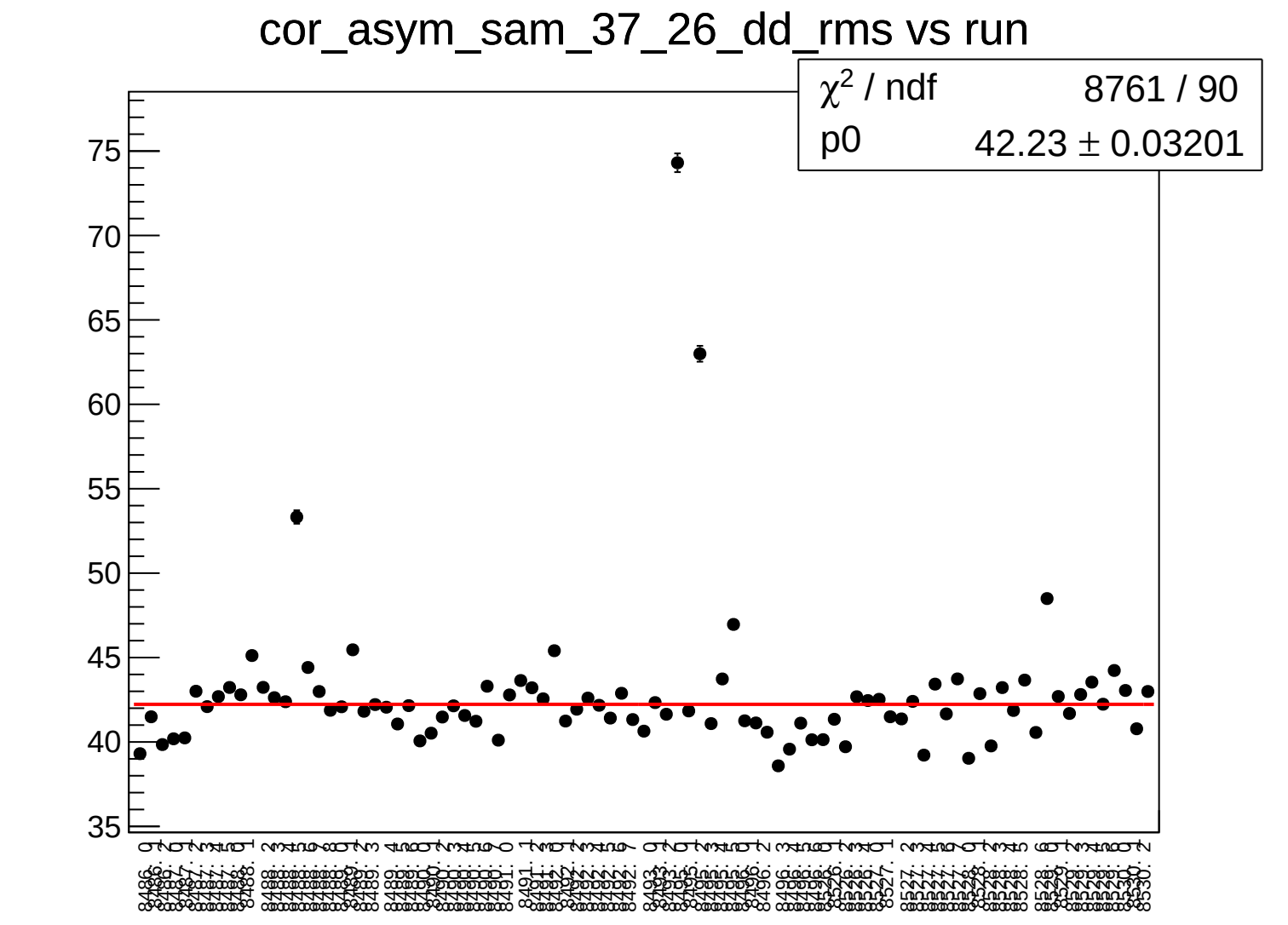

reg_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 8761 / 90
p0 42.23 ± 0.03201
75
70
65
60
55
50
45
40
35

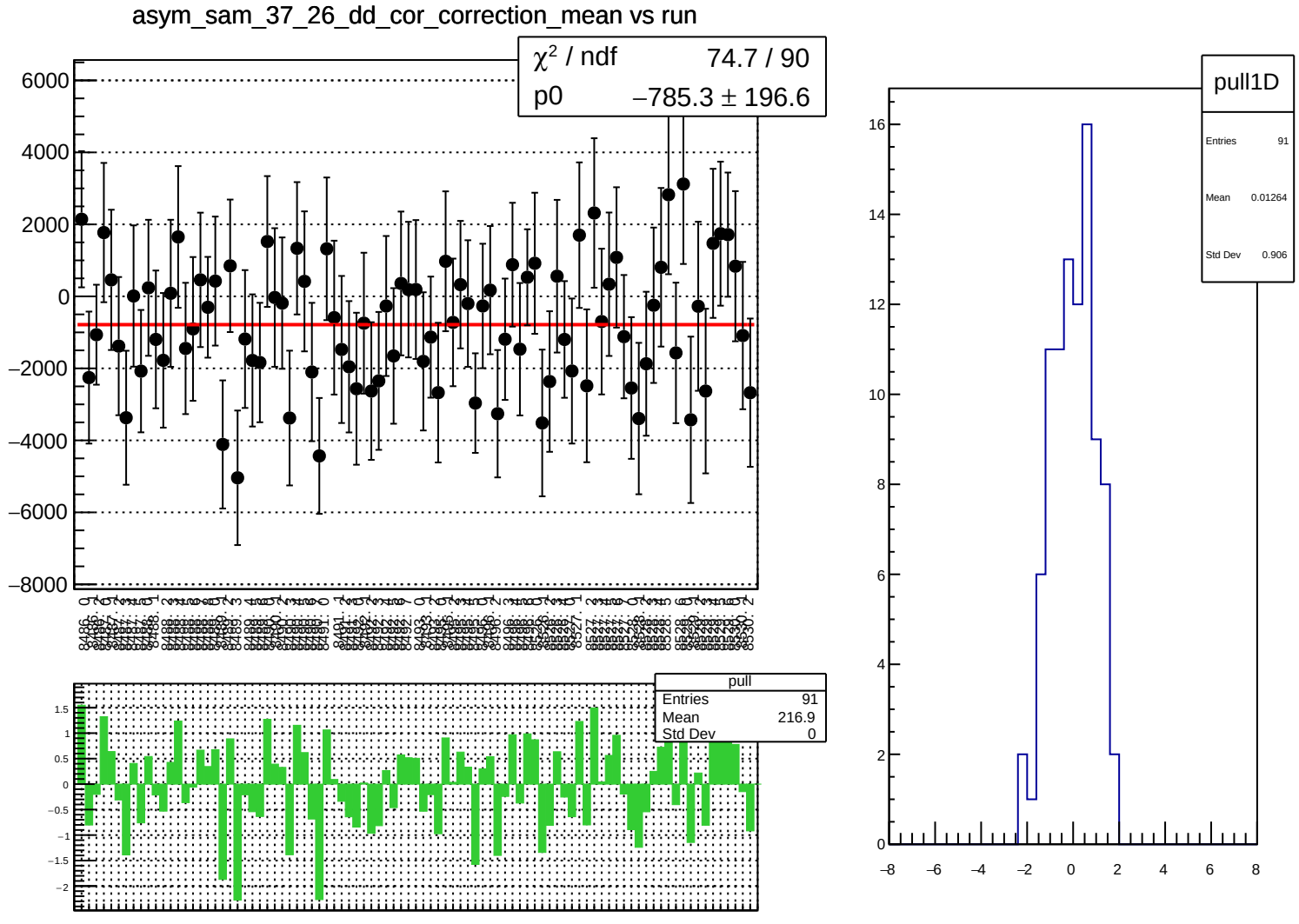

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 74.7 / 90
p0 −785.3 ± 196.6
pull
Entries 91
Mean 216.9
Std Dev 0

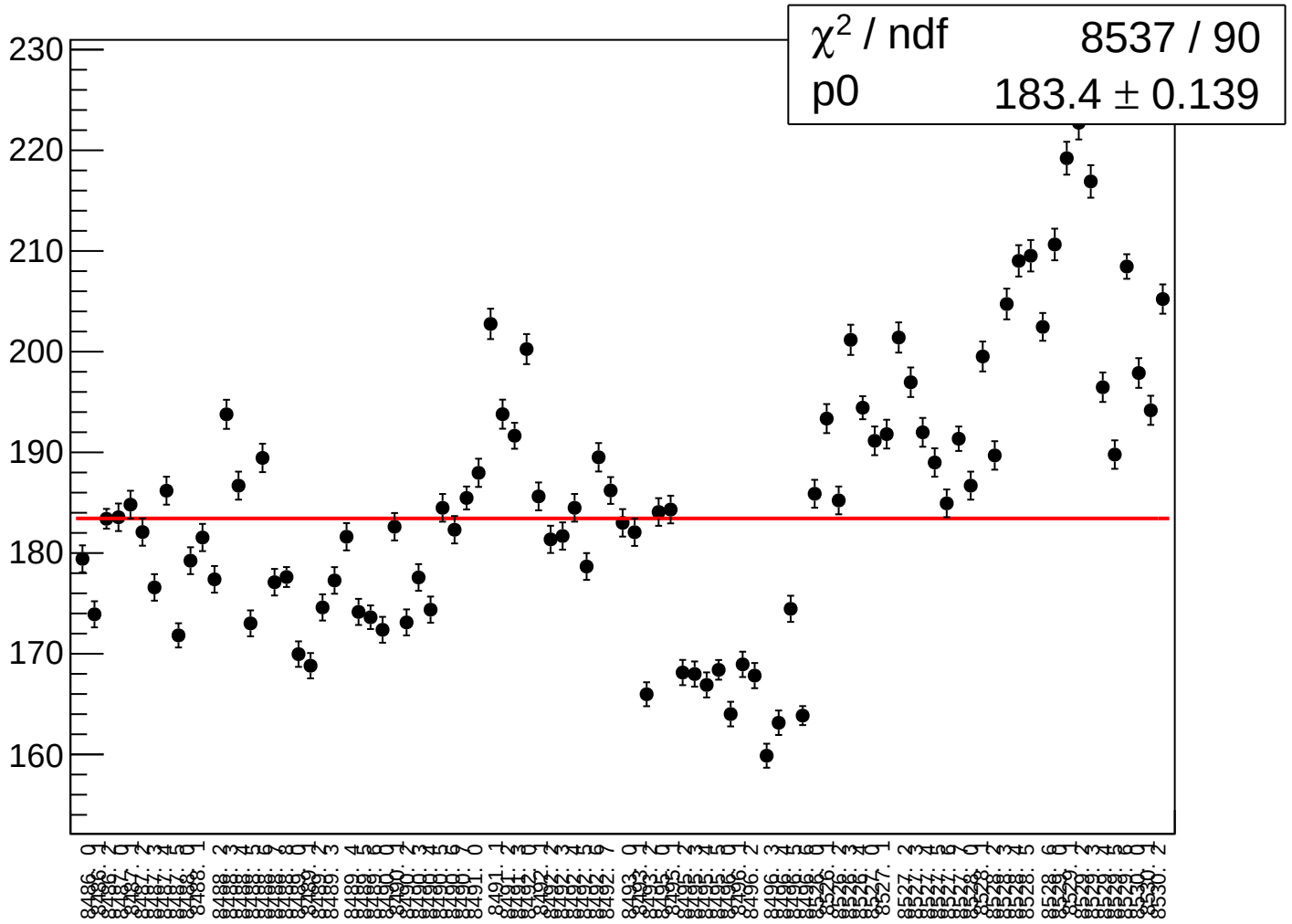

pull1D
Entries 91
Mean 0.01264
Std Dev 0.906

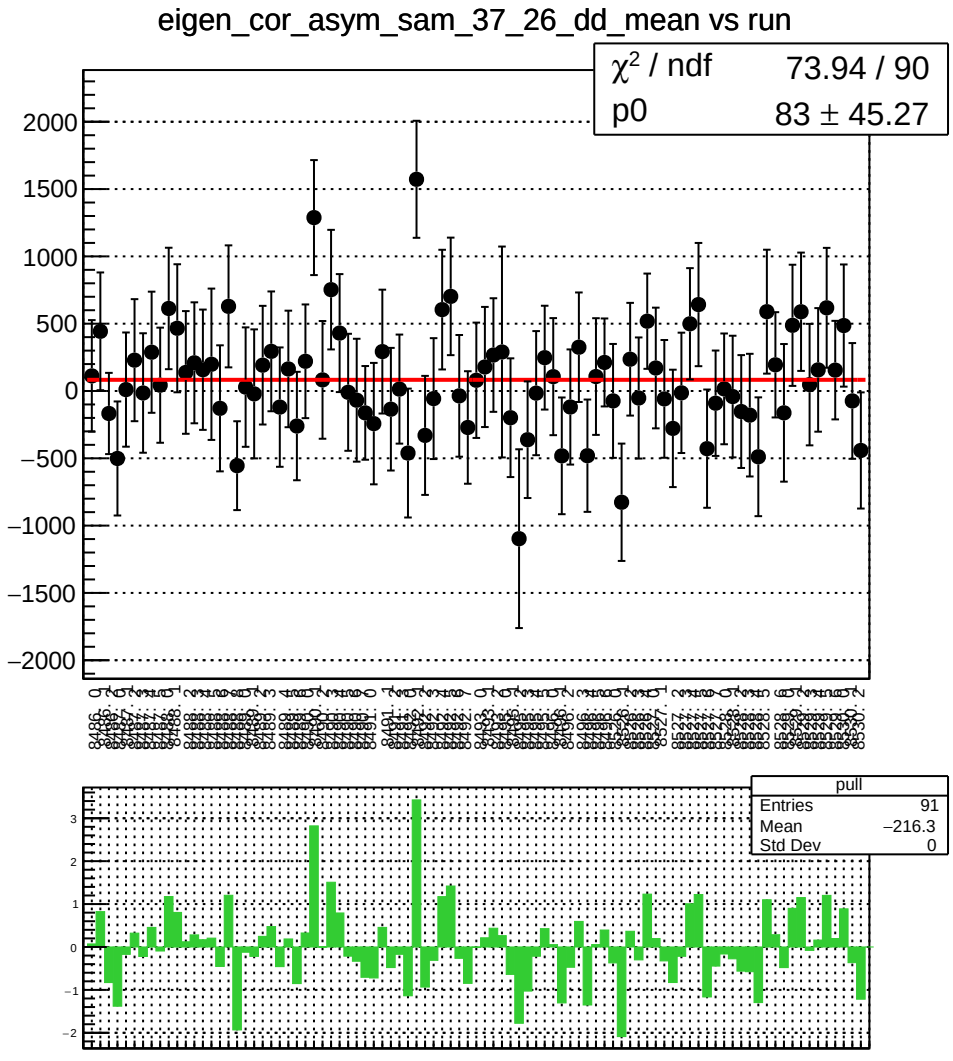

asym_sam_37_26_dd_reg_correction_rms vs run
χ^2 / ndf 8536 / 90
p0 183.4 ± 0.139
230
220
210
200
190
180
170
160

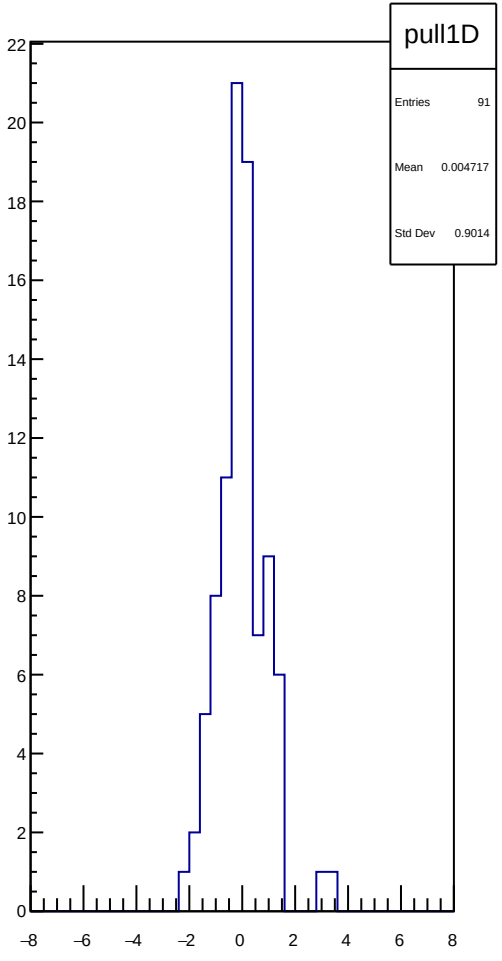

cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 73.94 / 90
p0 83 ± 45.27
2000
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 91
Mean −216.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.004717
Std Dev 0.9014
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

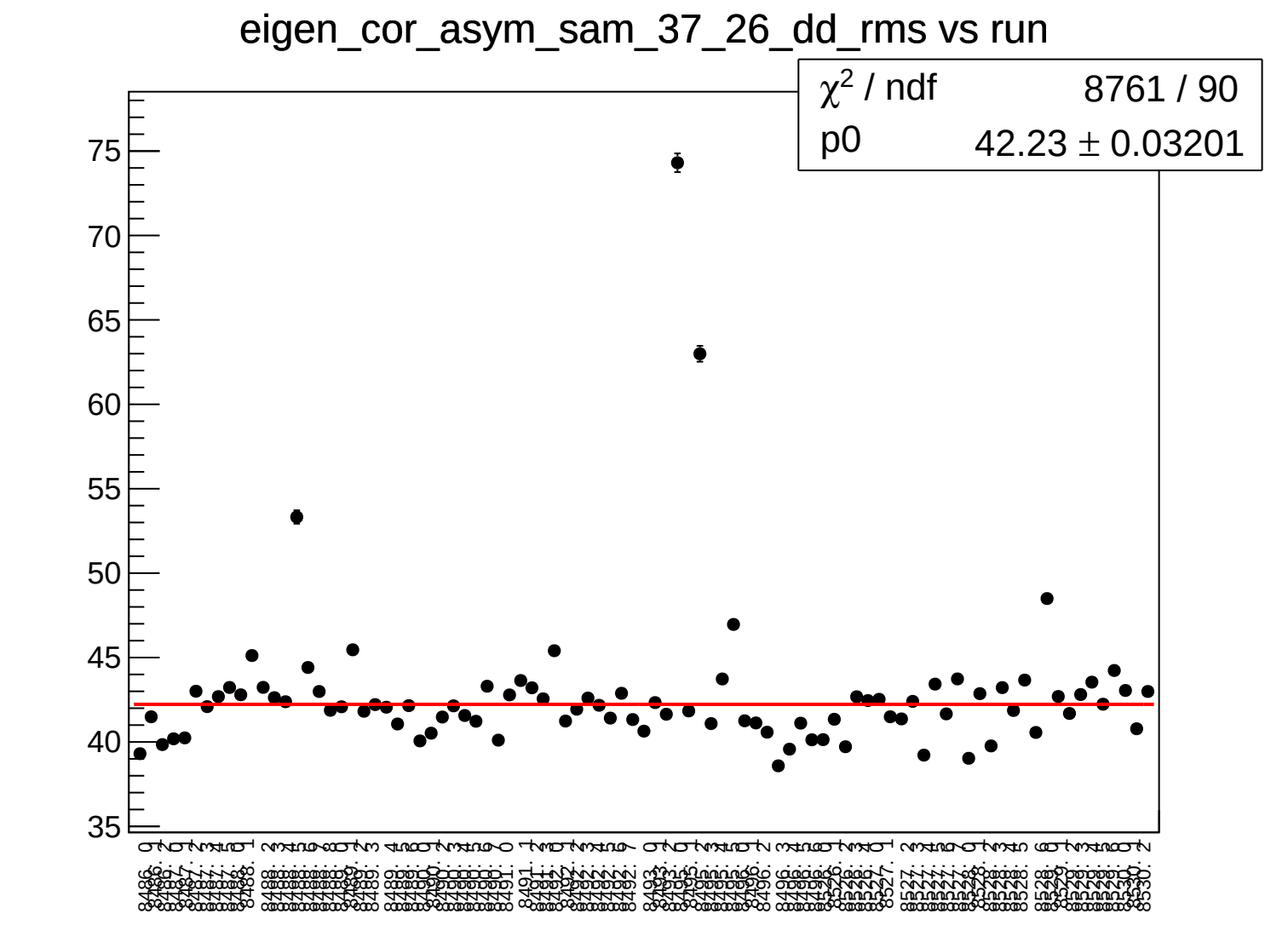

cor_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 8761 / 90
p0 42.23 ± 0.03201
75
70
65
60
55
50
45
40
35

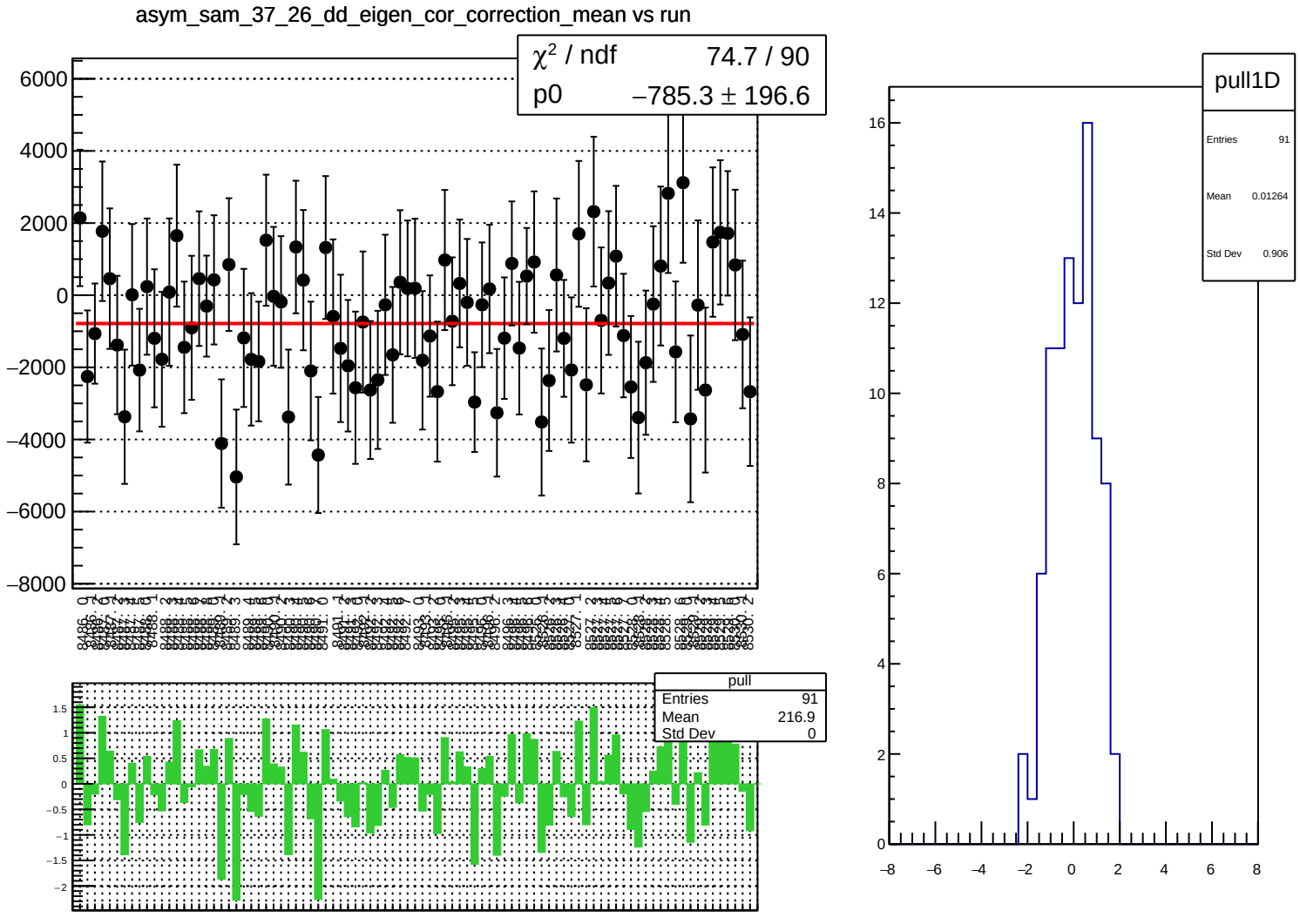

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 74.7 / 90
p0 −785.3 ± 196.6
pull
Entries 91
Mean 216.9
Std Dev 0
pull1D
Entries 91
Mean 0.01264
Std Dev 0.906

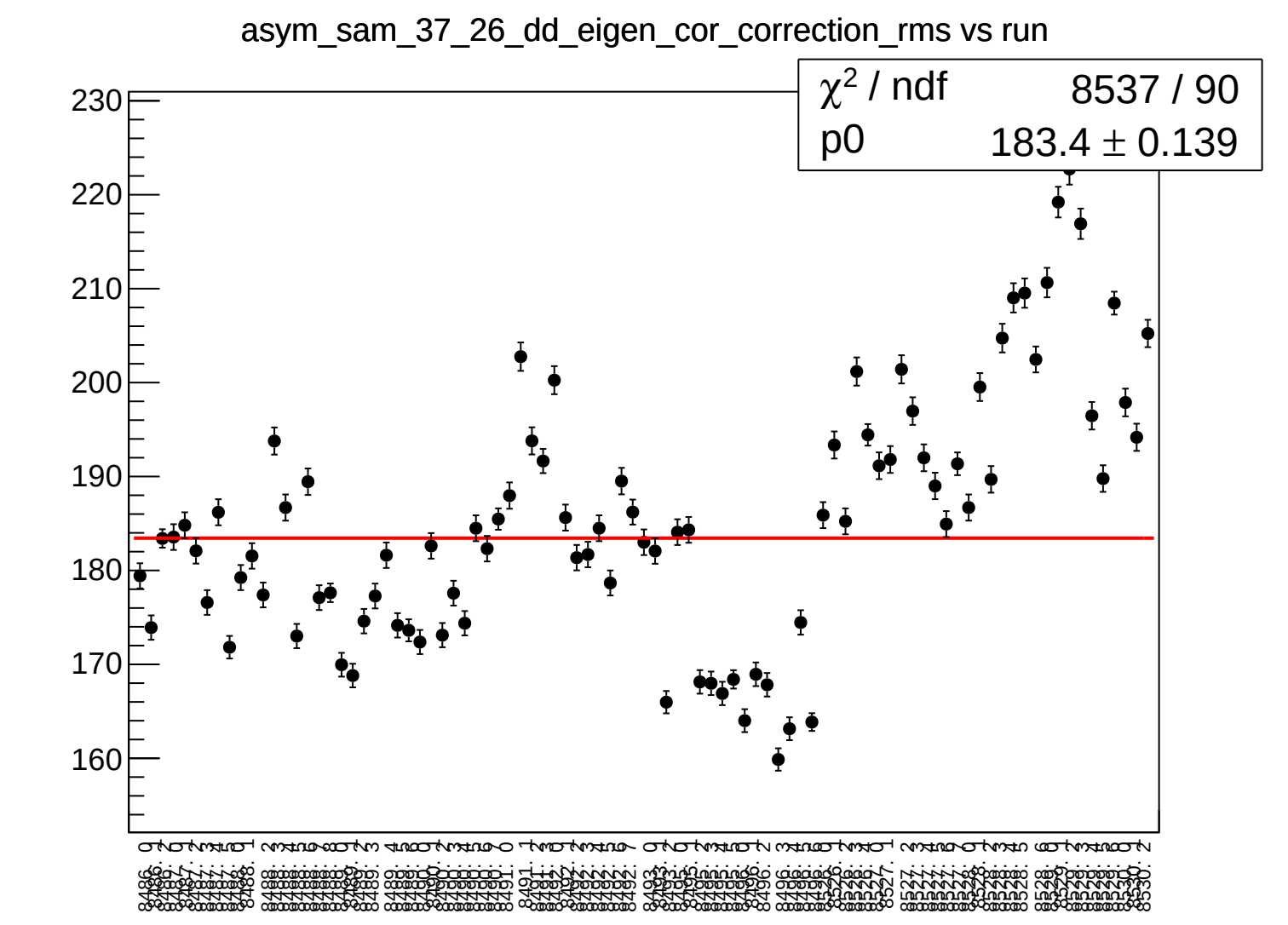

asym_sam_37_26_dd_cor_correction_rms vs run
χ^2 / ndf 8537 / 90
p0 183.4 ± 0.139
230
220
210
200
190
180
170
160

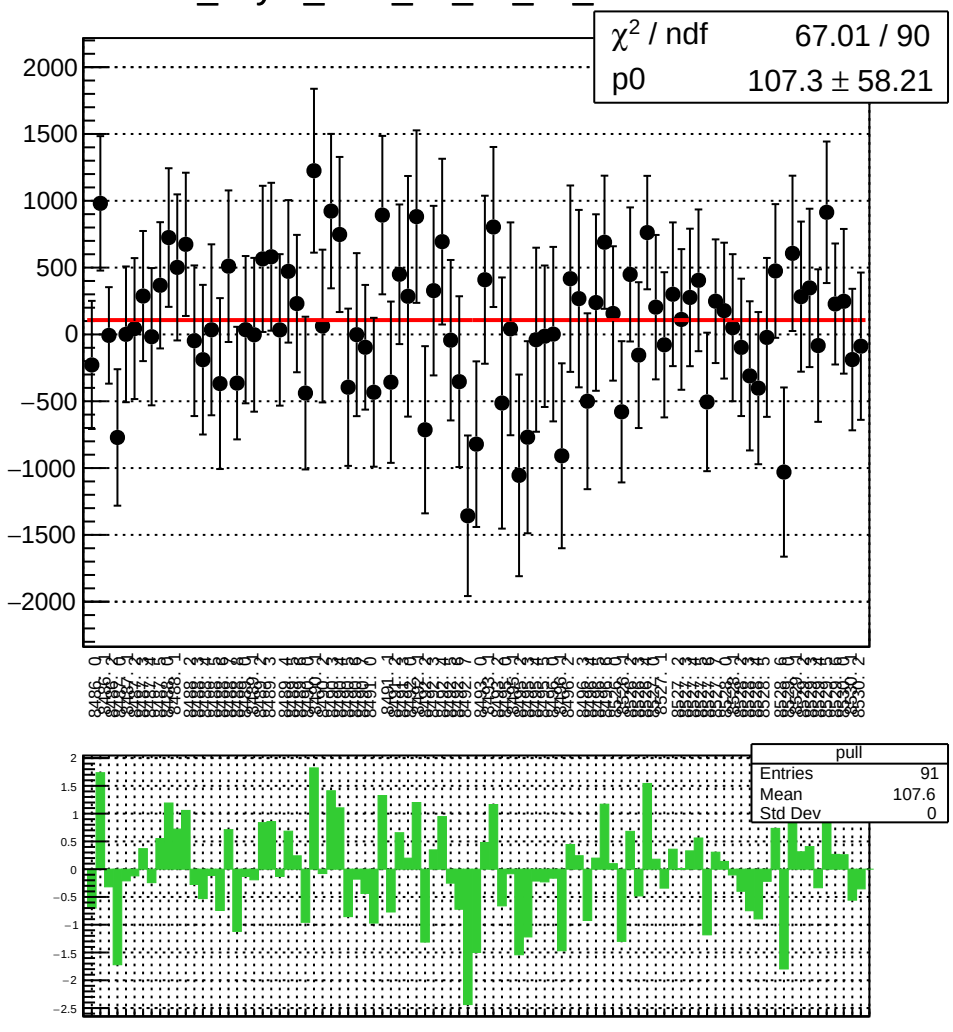

eigen_cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 73.94 / 90
p0 83 ± 45.27
2000
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 91
Mean −216.3
Std Dev 0
3
2
1
0
−1
−2

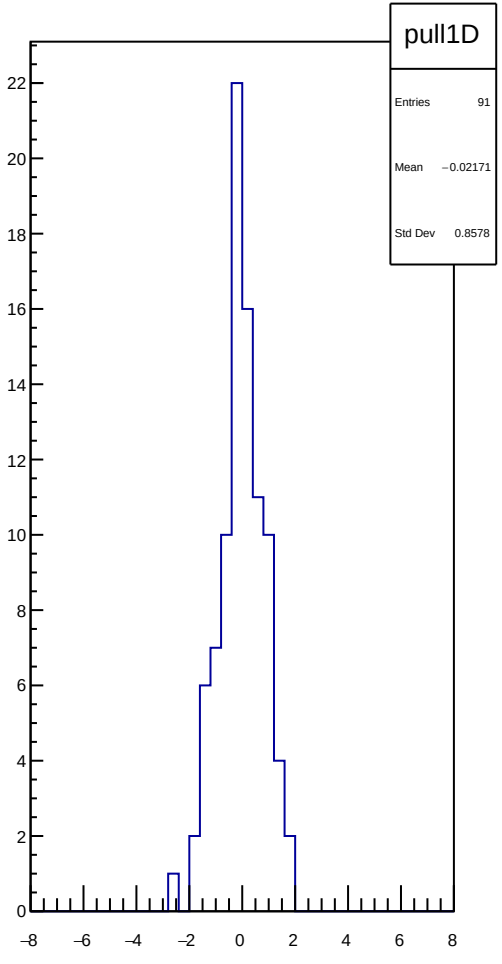

pull1D
Entries 91
Mean 0.004717
Std Dev 0.9014
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

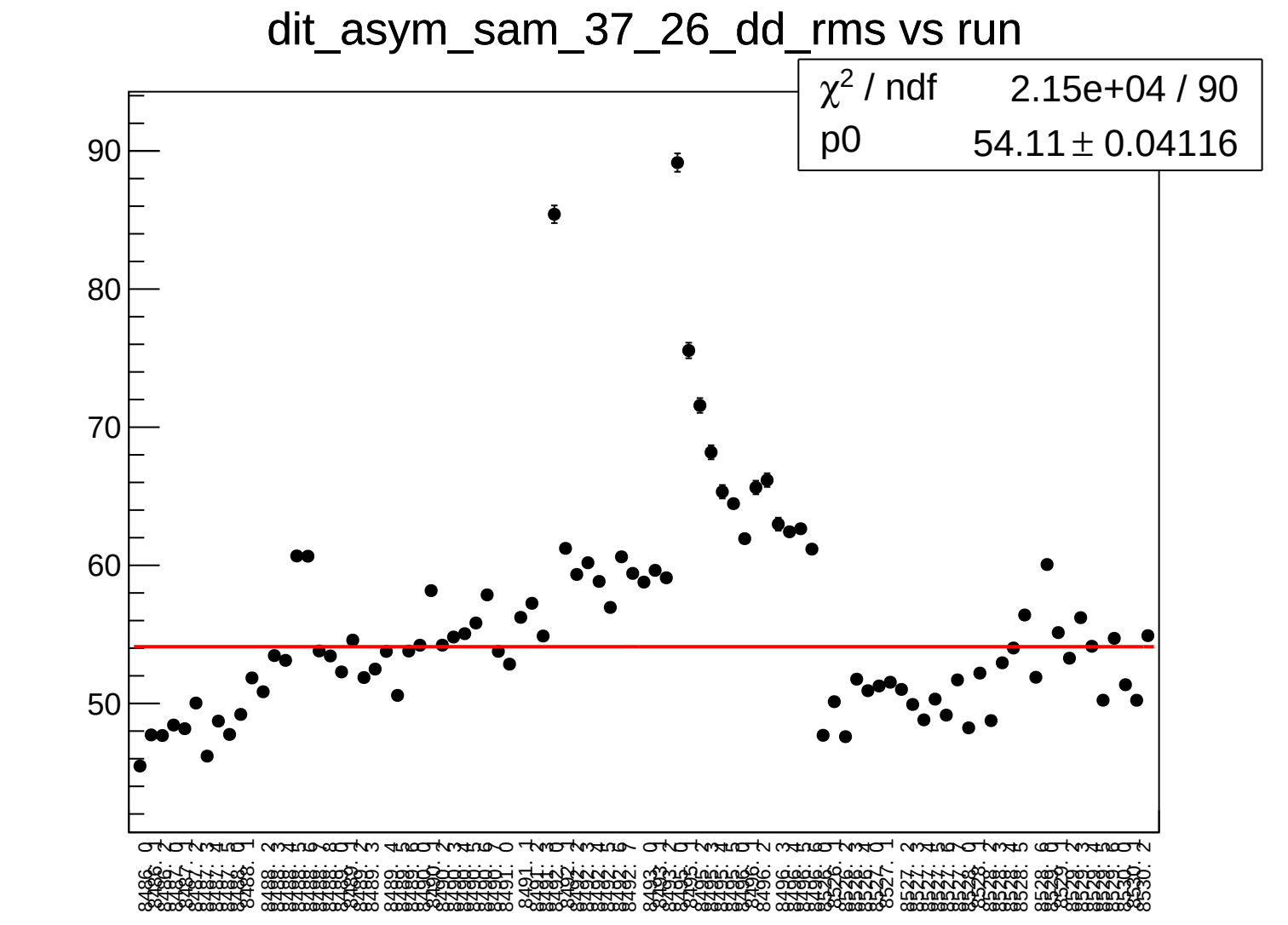

eigen_cor_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 8761 / 90
p0 42.23 ± 0.03201
75
70
65
60
55
50
45
40
35

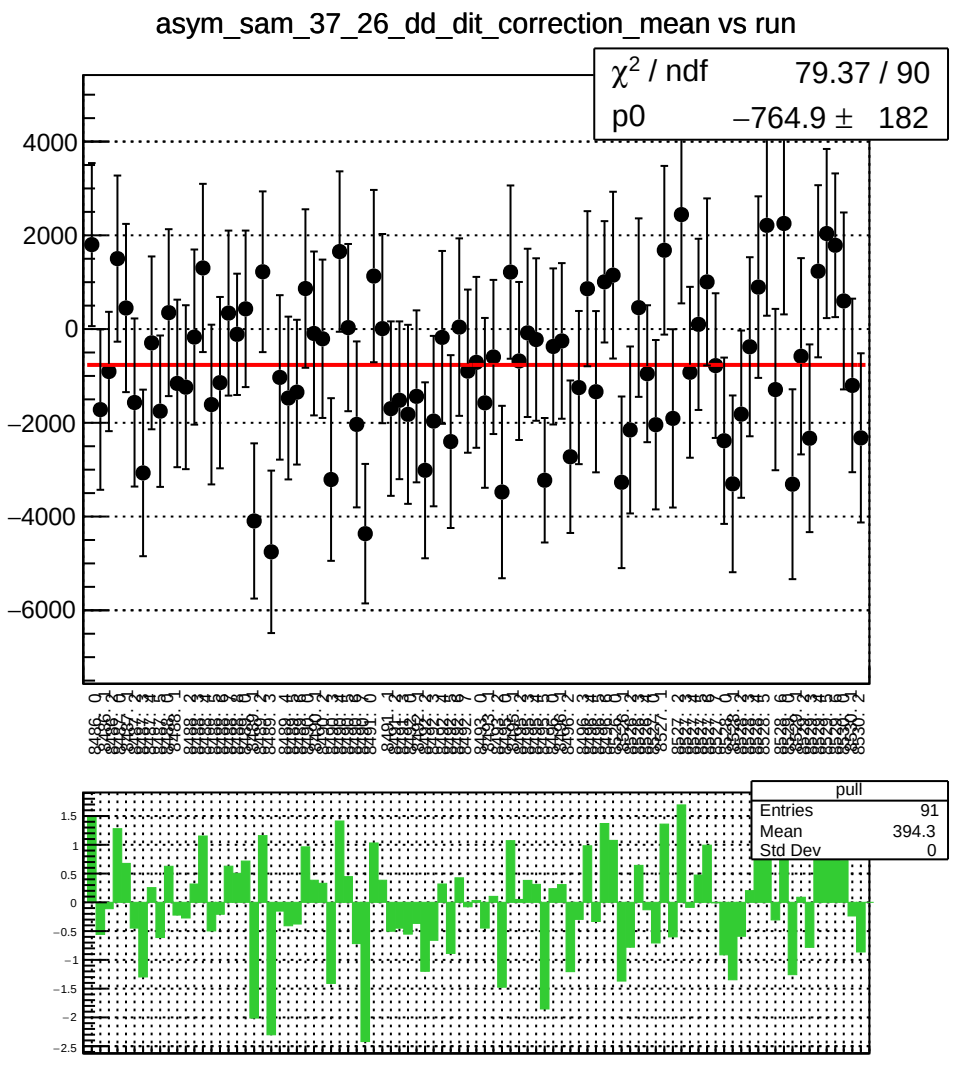

asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 74.7 / 90
p0 −785.3 ± 196.6
pull
Entries 91
Mean 216.9
Std Dev 0
pull1D
Entries 91
Mean 0.01264
Std Dev 0.906

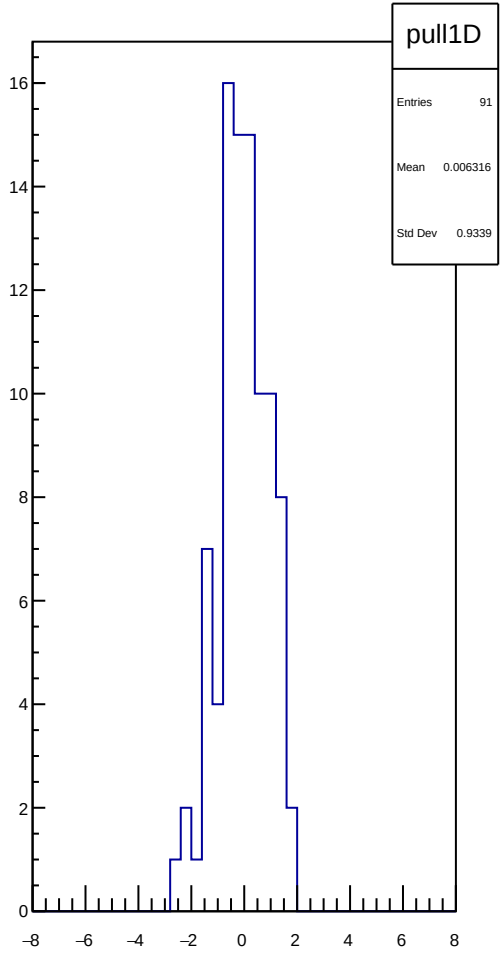

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 8537 / 90
p0 183.4 ± 0.139
230
220
210
200
190
180
170
160

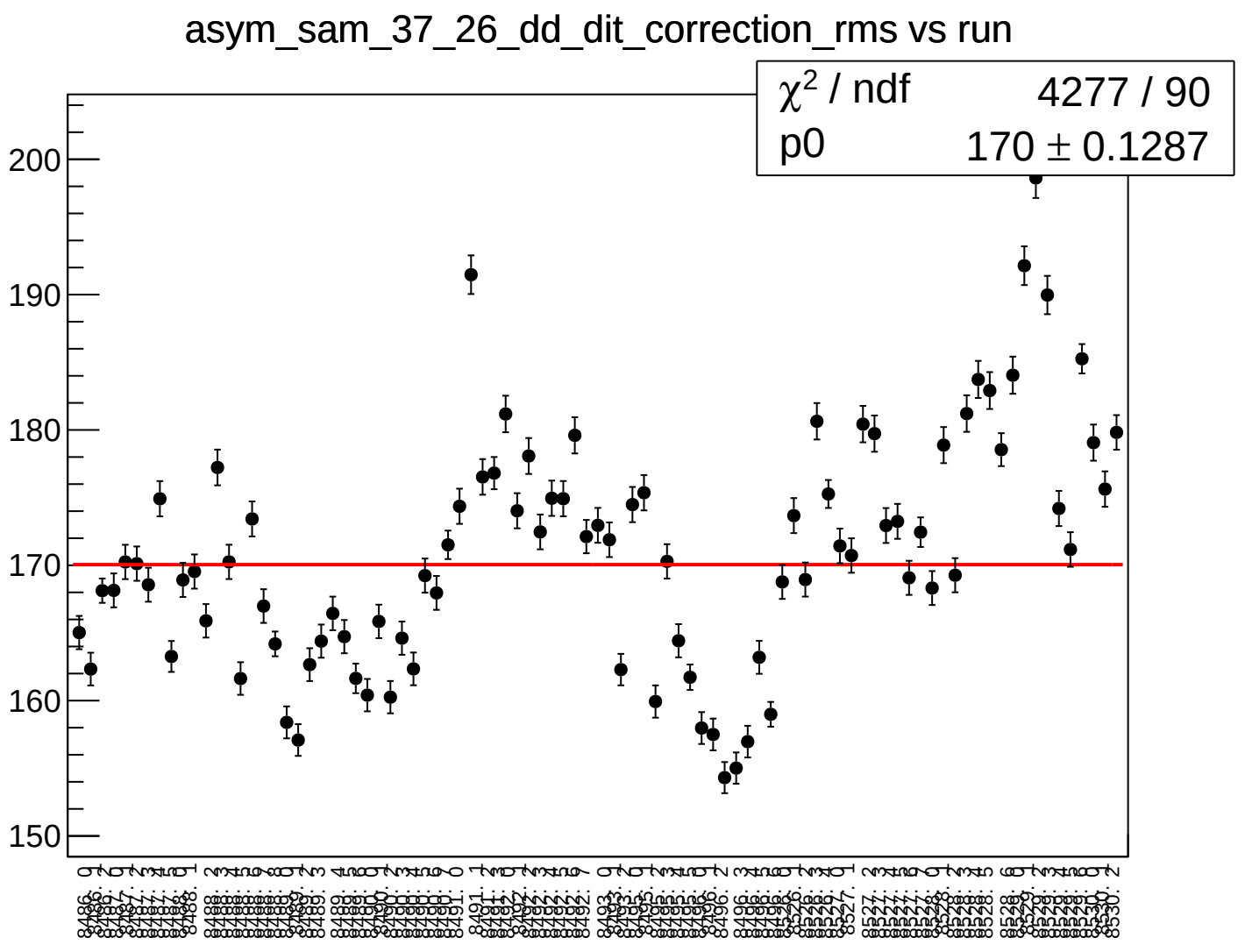

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 67.01 / 90
p0 107.3 ± 58.21
pull
Entries 91
Mean 107.6
Std Dev 0

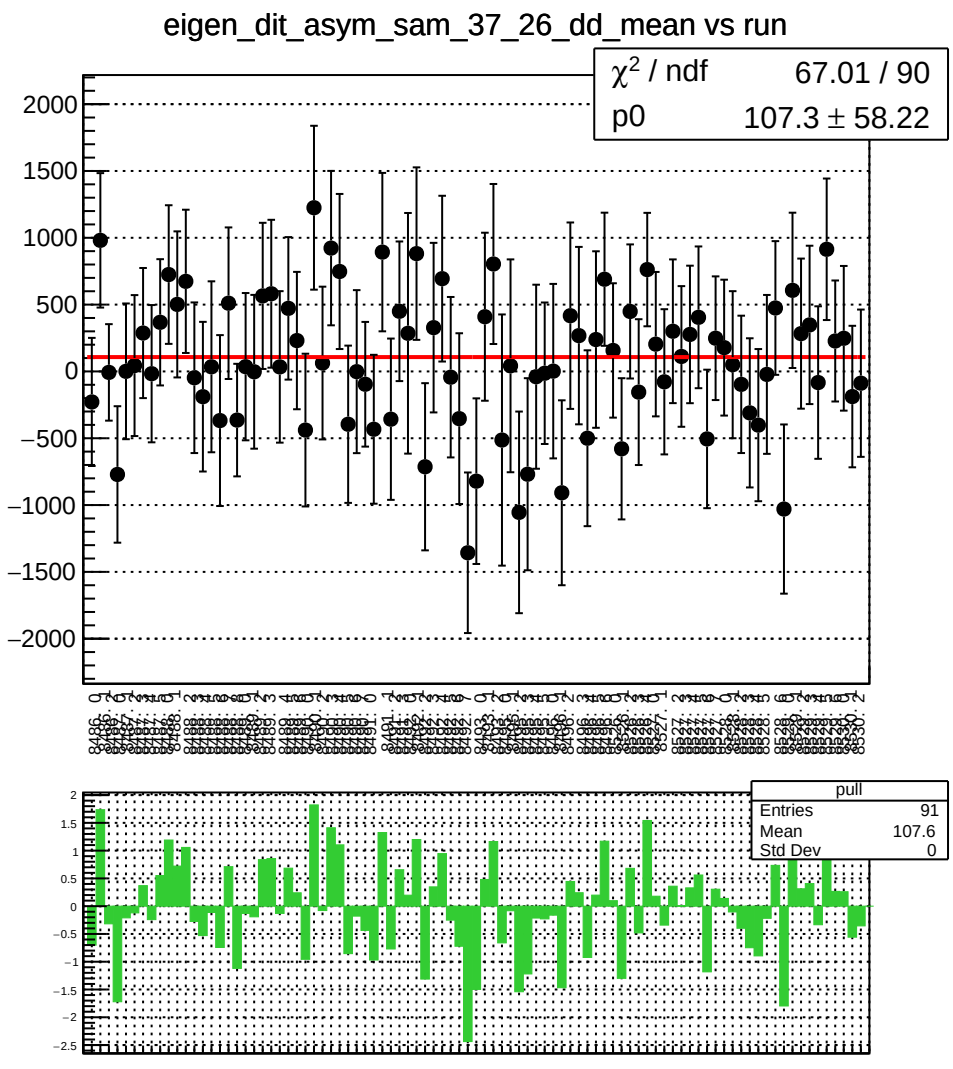

pull1D
Entries 91
Mean −0.02171
Std Dev 0.8578

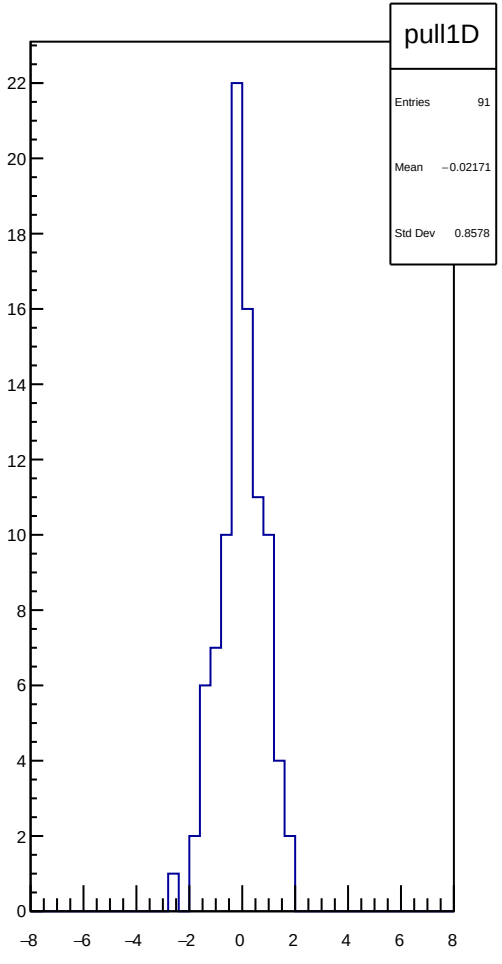

dit_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 2.15e+04 / 90
p0 54.11 ± 0.04116
90
80
70
60
50

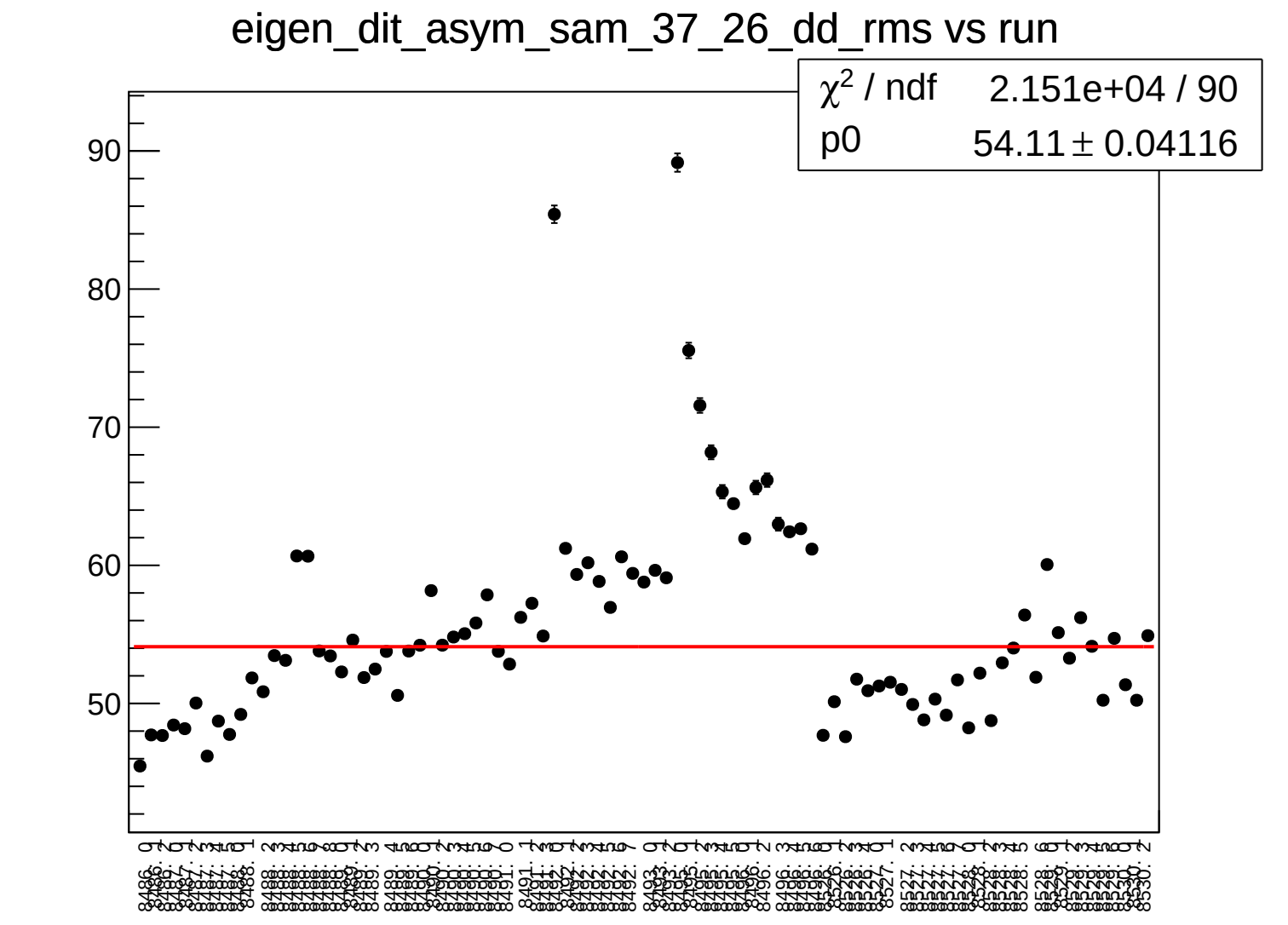

asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 79.37 / 90
p0 −764.9 ± 182
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean 394.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

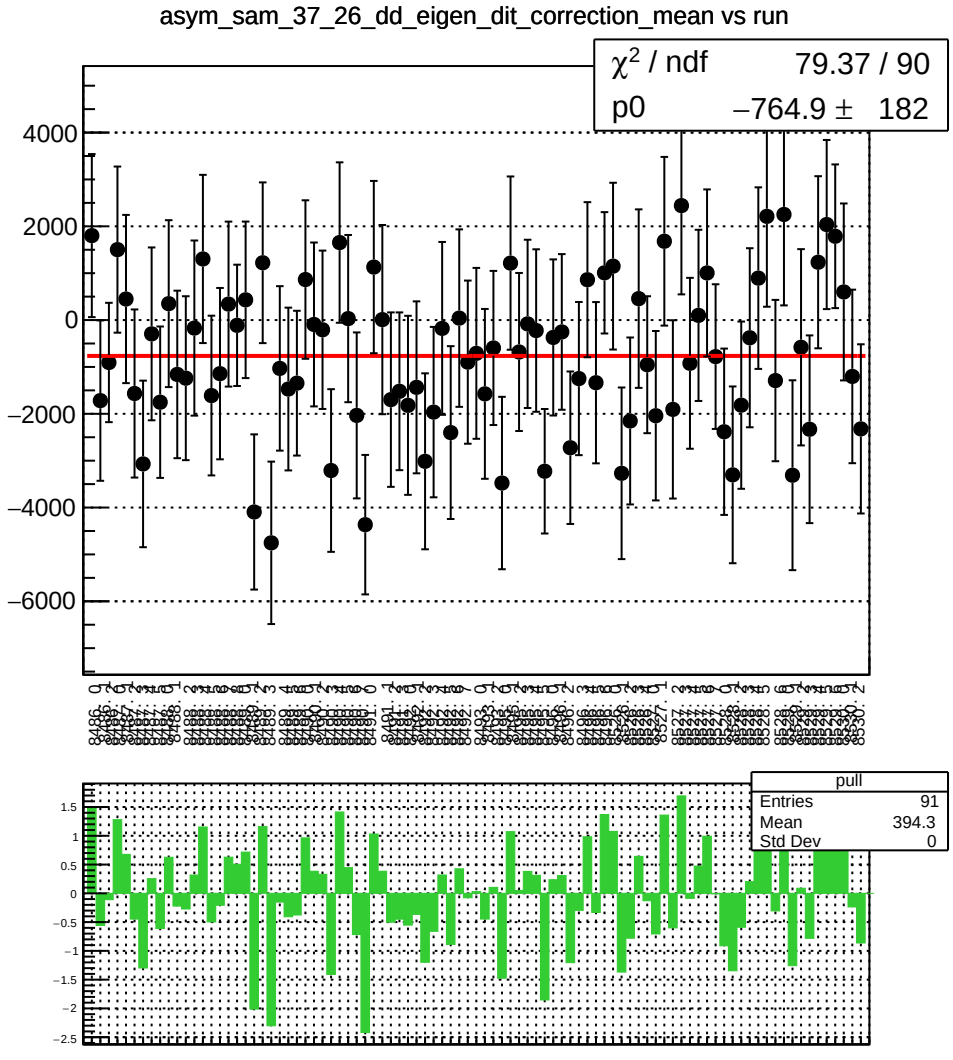

pull1D
Entries 91
Mean 0.006316
Std Dev 0.9339
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

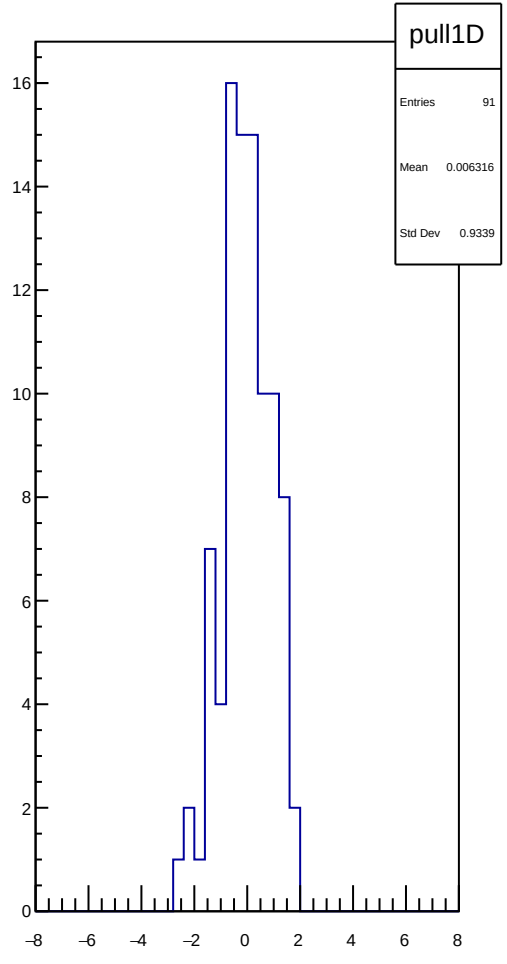

asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 4277 / 90
p0 170 ± 0.1287
200
190
180
170
160
150

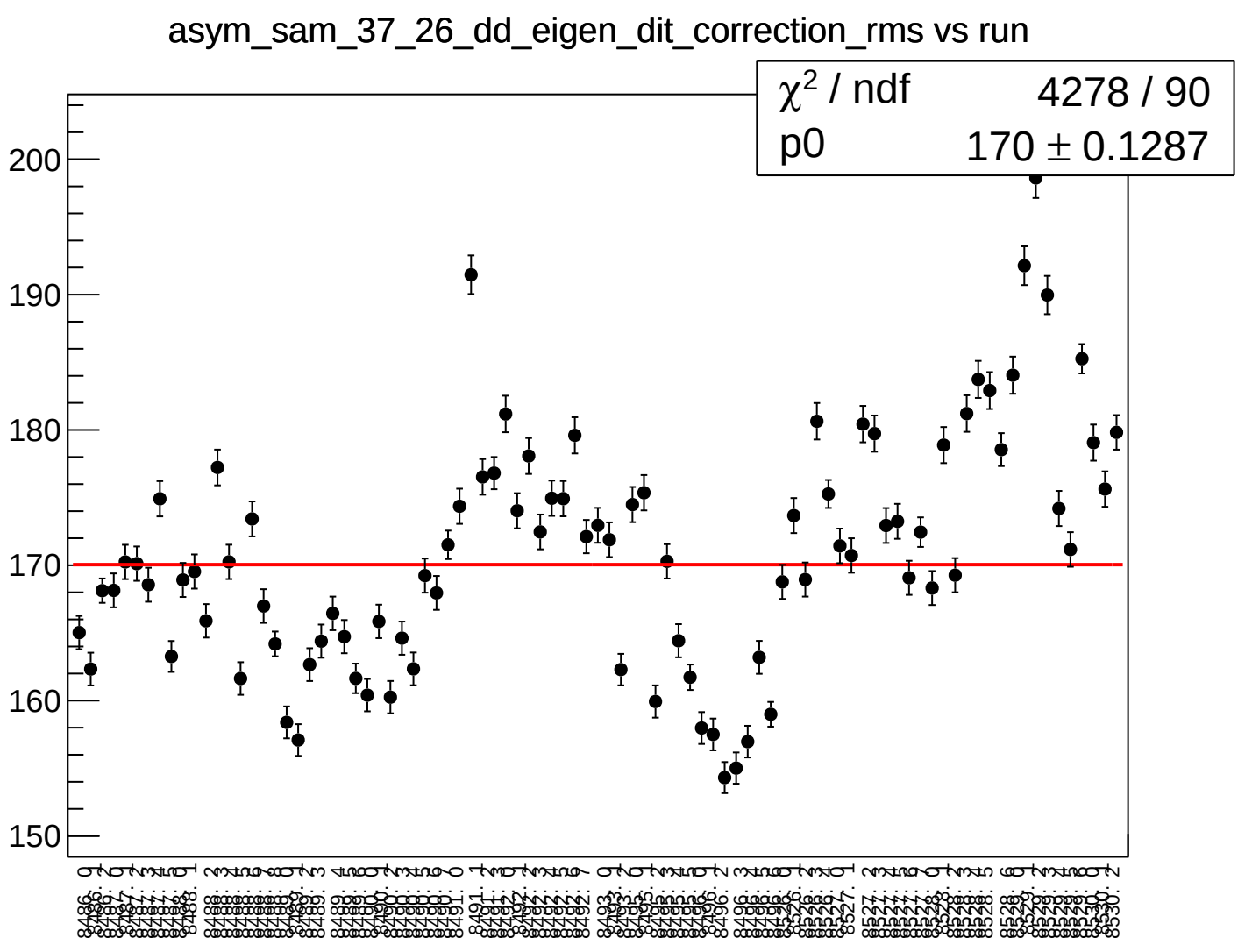

eigen_dit_asym_sam_37_26_dd_mean vs run
χ^2 / ndf 67.01 / 90
p0 107.3 ± 58.22
pull
Entries 91
Mean 107.6
Std Dev 0

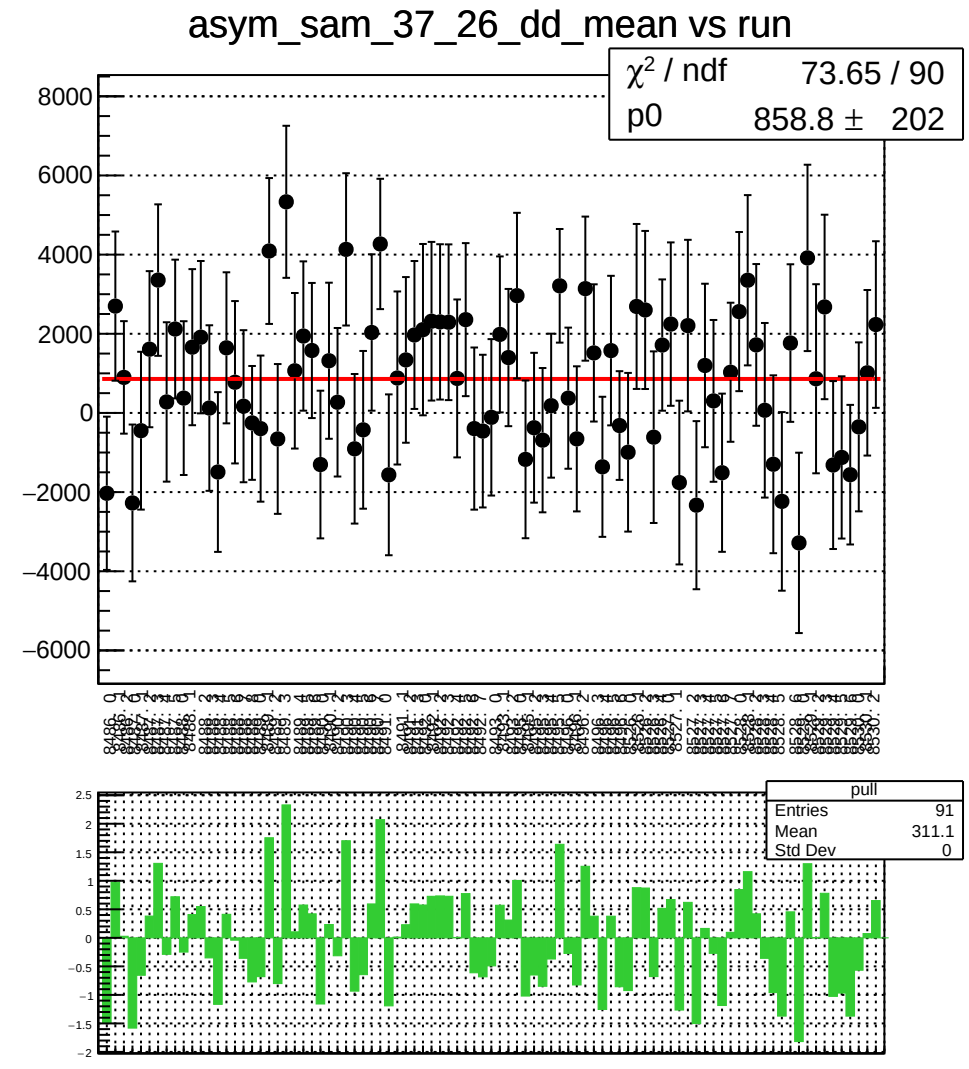

pull1D
Entries 91
Mean −0.02171
Std Dev 0.8578

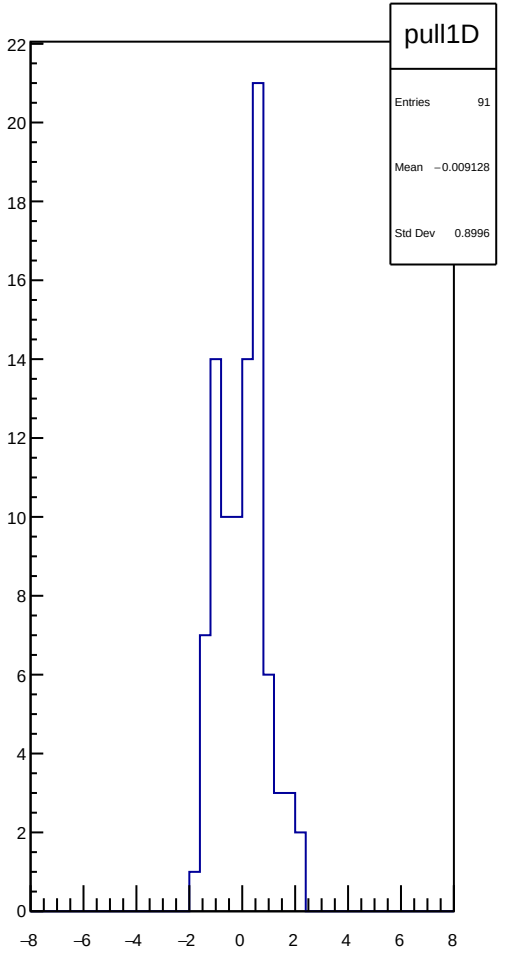

eigen_dit_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 2.151e+04 / 90
p0 54.11 ± 0.04116
90
80
70
60
50

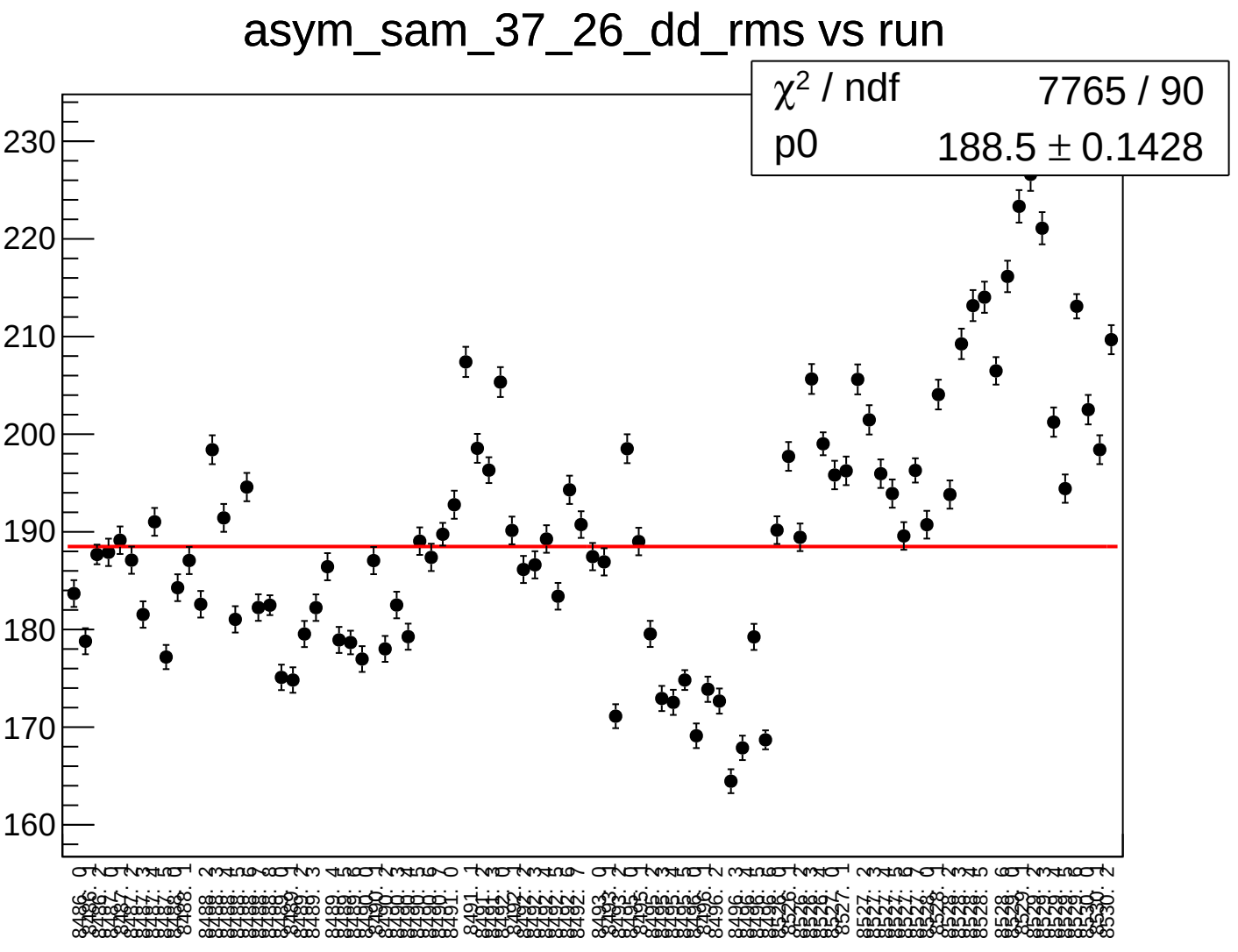

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 79.37 / 90
p0 −764.9 ± 182
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean 394.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

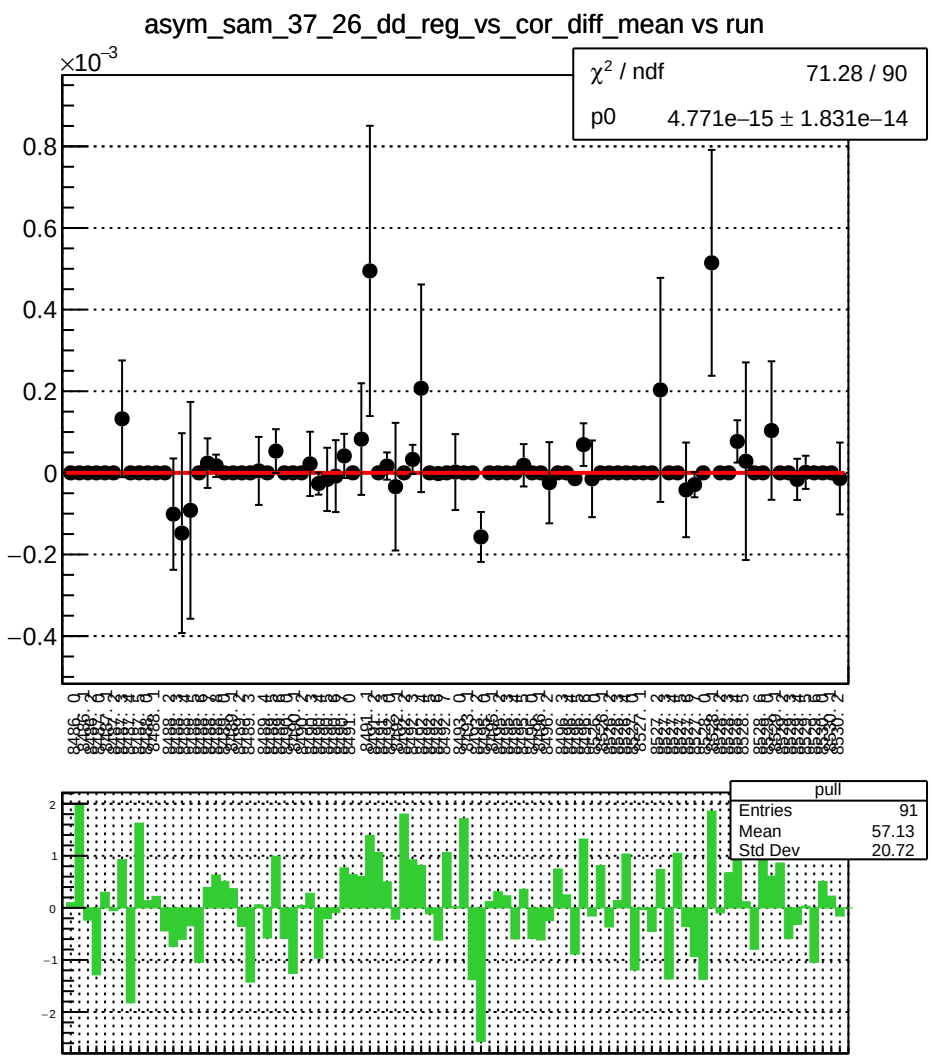

pull1D
Entries 91
Mean 0.006316
Std Dev 0.9339
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

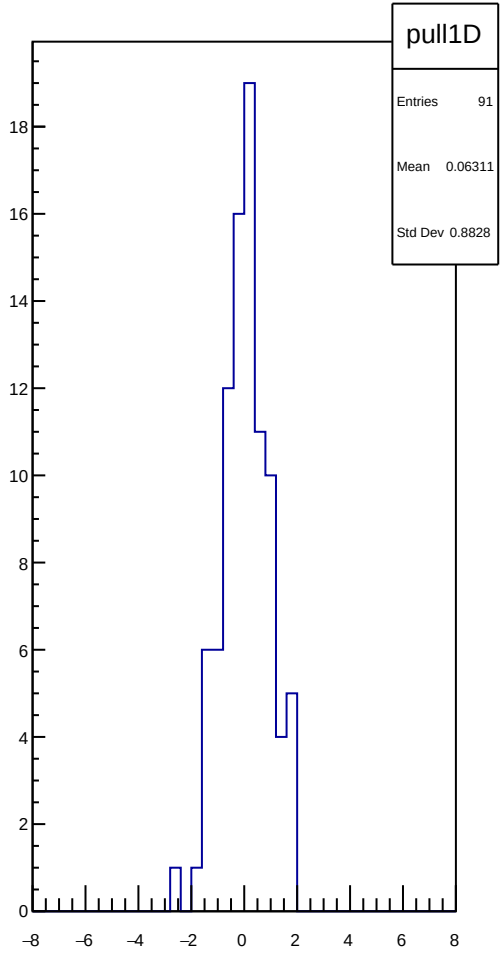

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 4278 / 90
p0 170 ± 0.1287
200
190
180
170
160
150

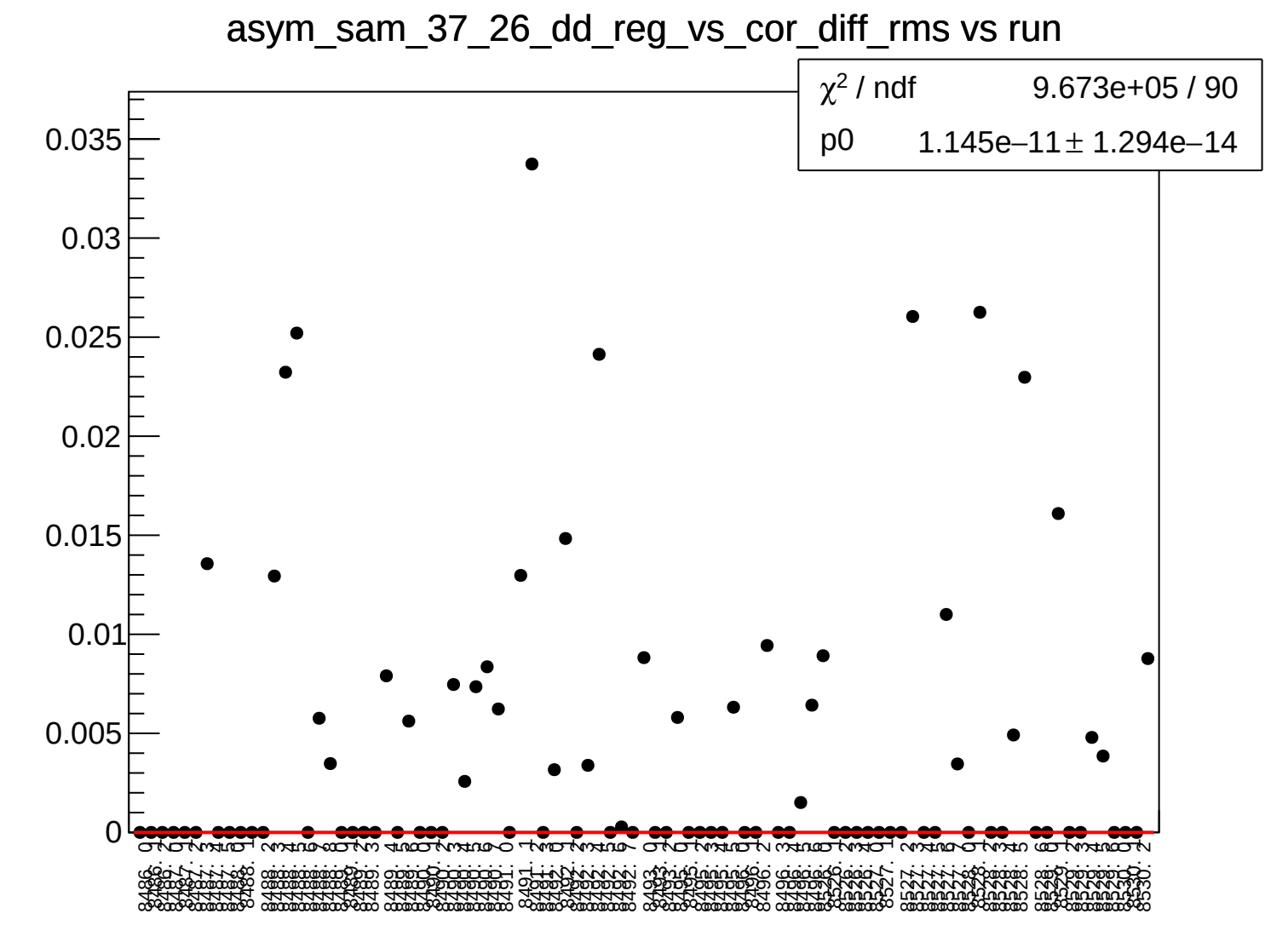

asym_sam_37_26_dd_mean vs run
χ² / ndf 73.65 / 90
p0 858.8 ± 202
pull
Entries 91
Mean 311.1
Std Dev 0

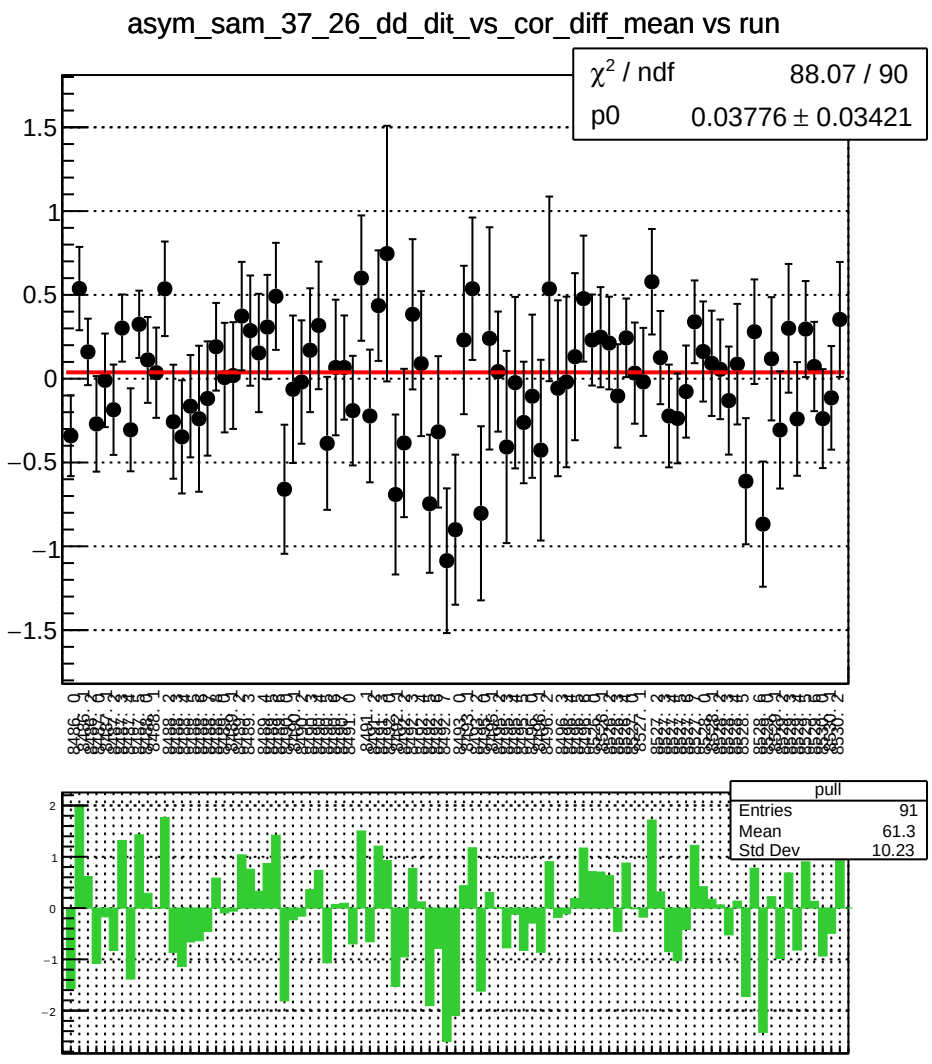

pull1D
Entries 91
Mean −0.009128
Std Dev 0.8996

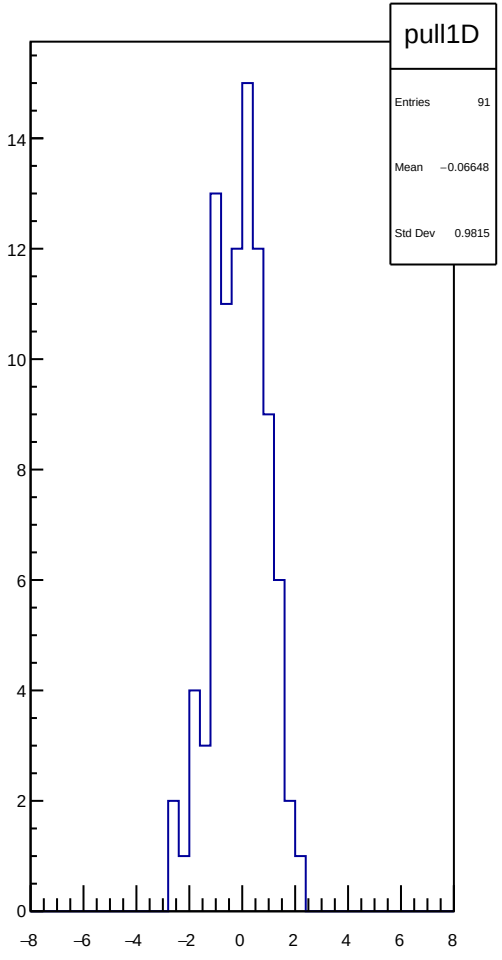

asym_sam_37_26_dd_rms vs run
χ^2 / ndf 7765 / 90
p0 188.5 ± 0.1428
230
220
210
200
190
180
170
160

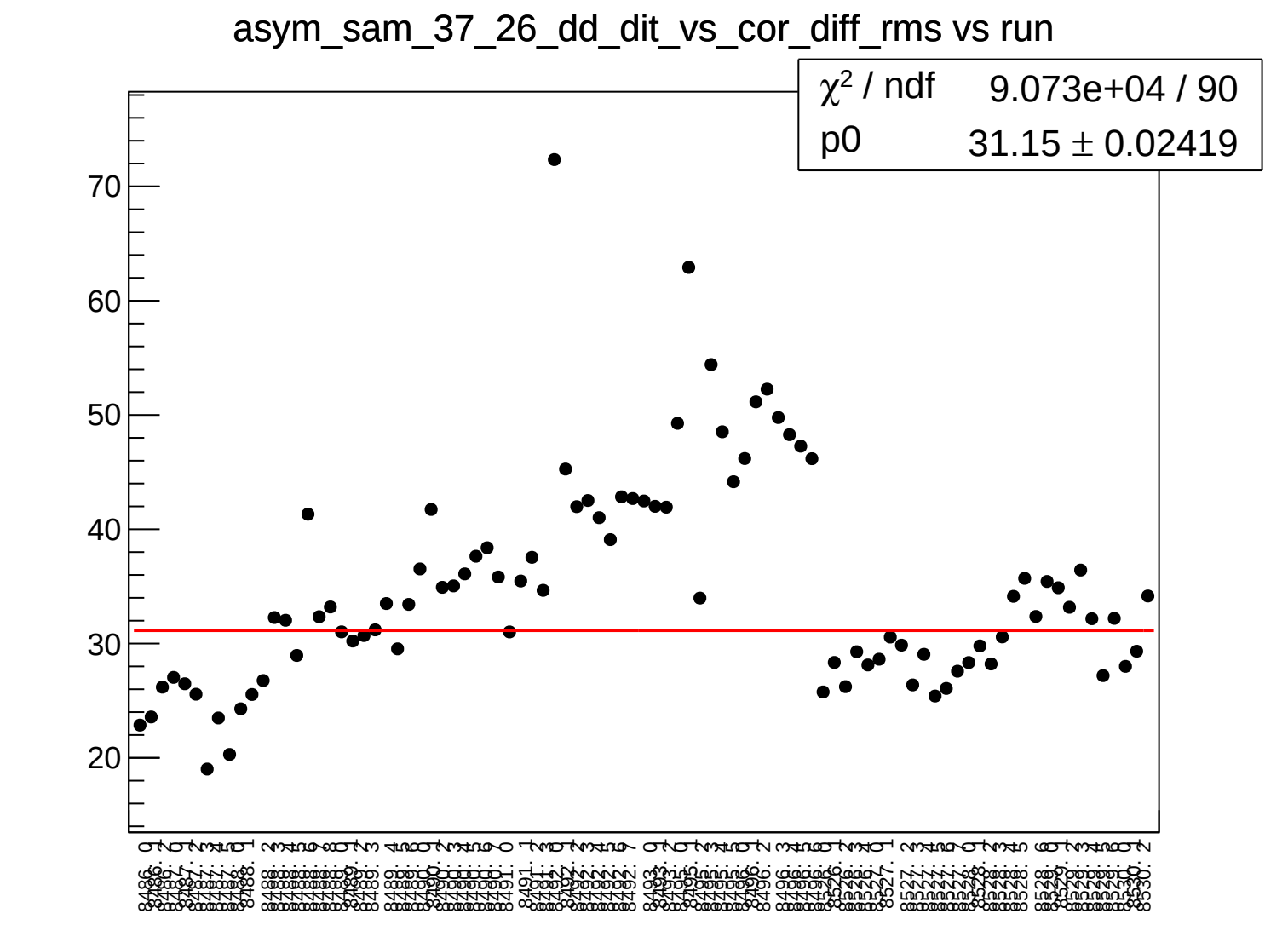

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 71.28 / 90
p0 4.771e−15 ± 1.831e−14
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 91
Mean 57.13
Std Dev 20.72
2
1
0
−1
−2

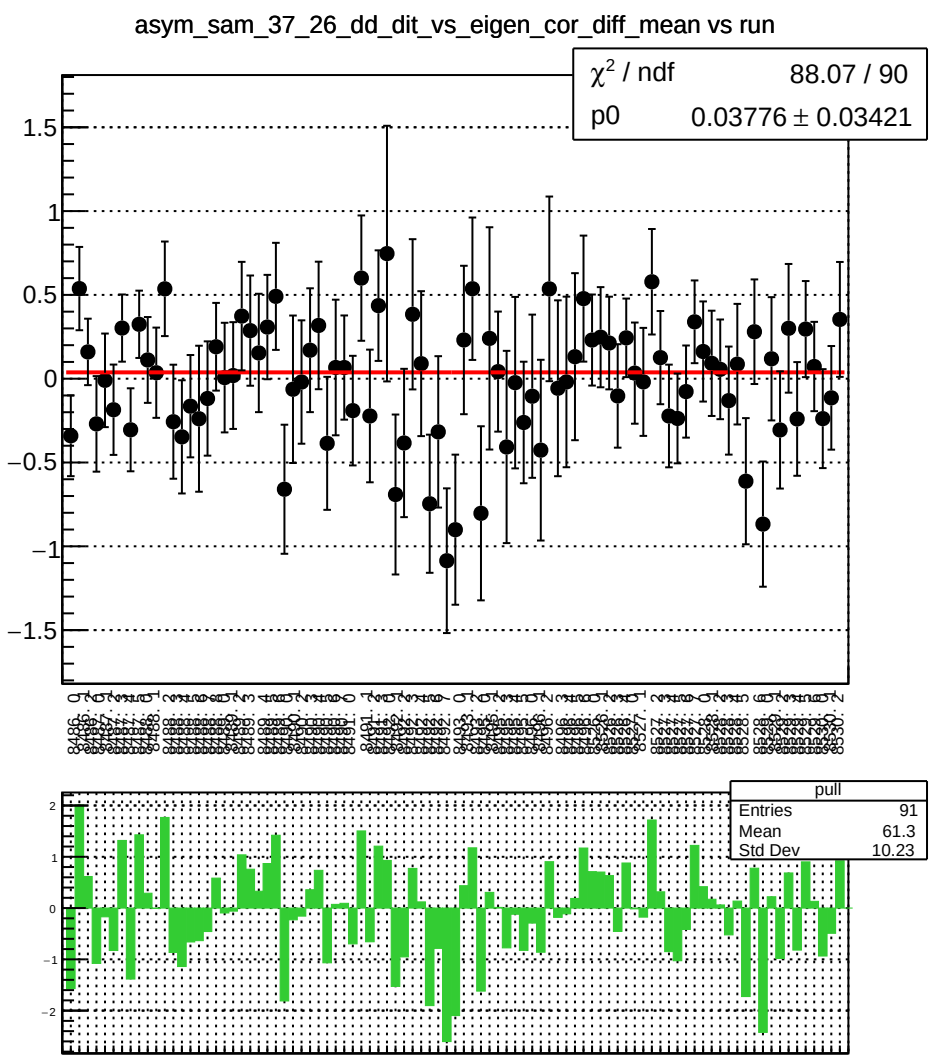

pull1D
Entries 91
Mean 0.06311
Std Dev 0.8828
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

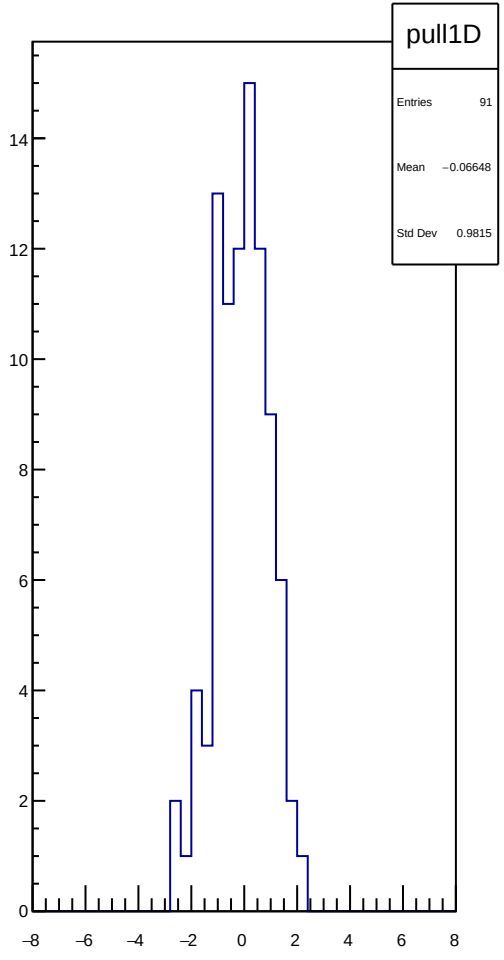

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.673e+05 / 90
p0 1.145e−11 ± 1.294e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

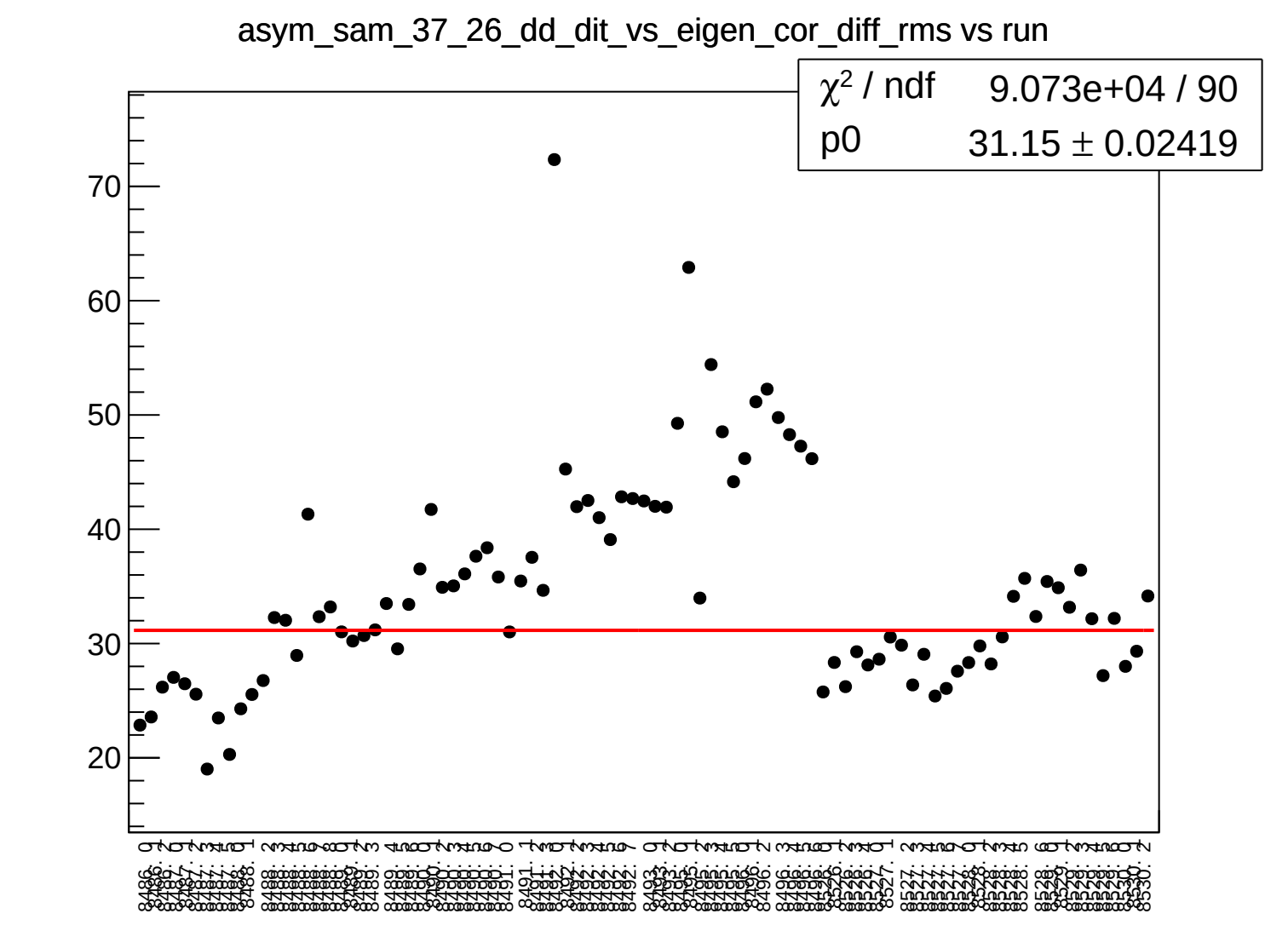

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 88.07 / 90
p0 0.03776 ± 0.03421
pull
Entries 91
Mean 61.3
Std Dev 10.23

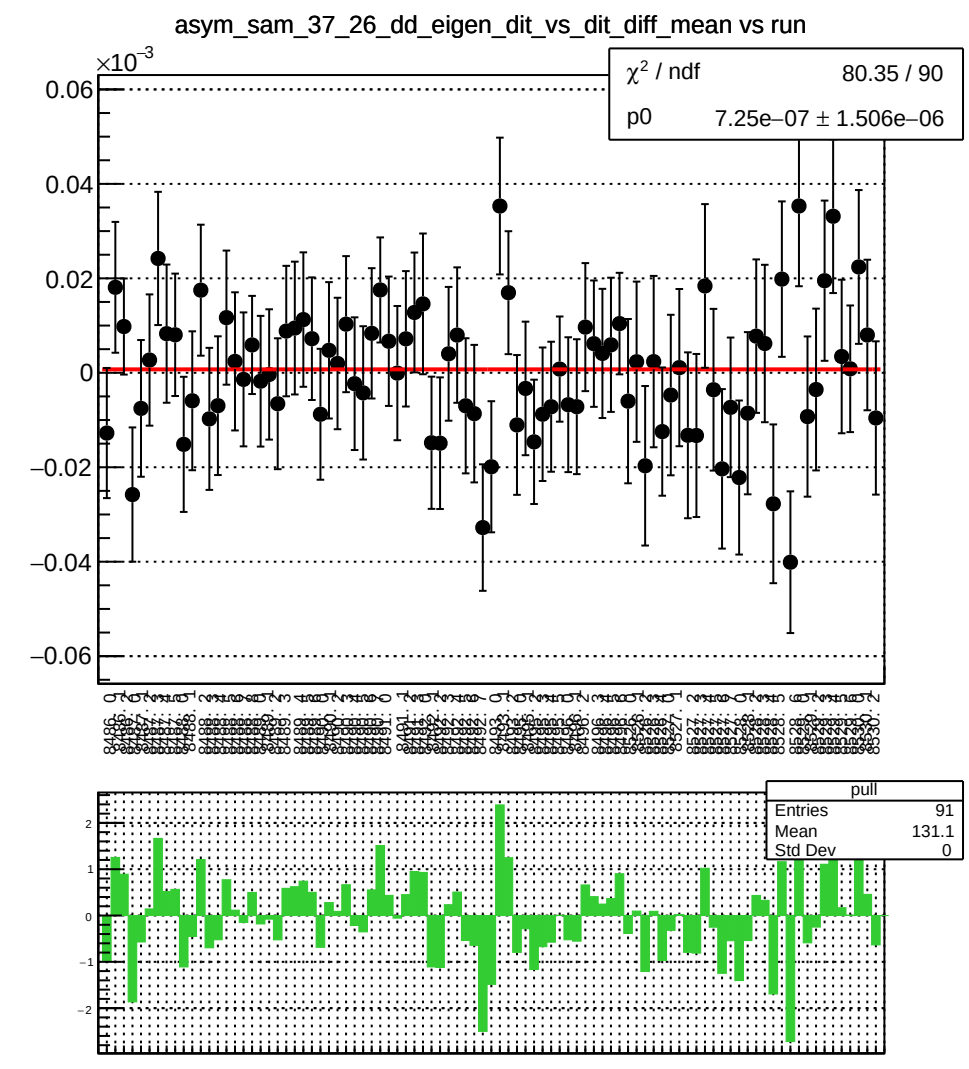

pull1D
Entries 91
Mean −0.06648
Std Dev 0.9815

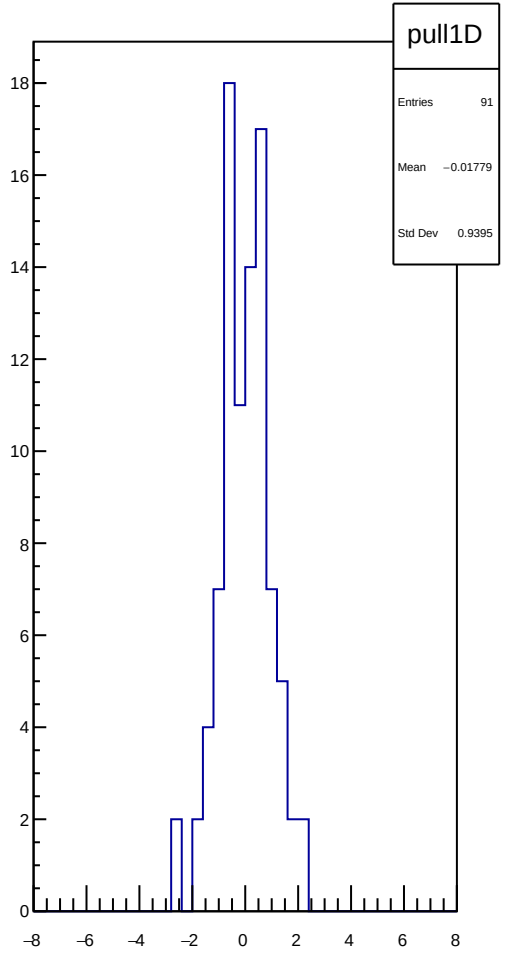

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9.073e+04 / 90
p0 31.15 ± 0.02419
70
60
50
40
30
20

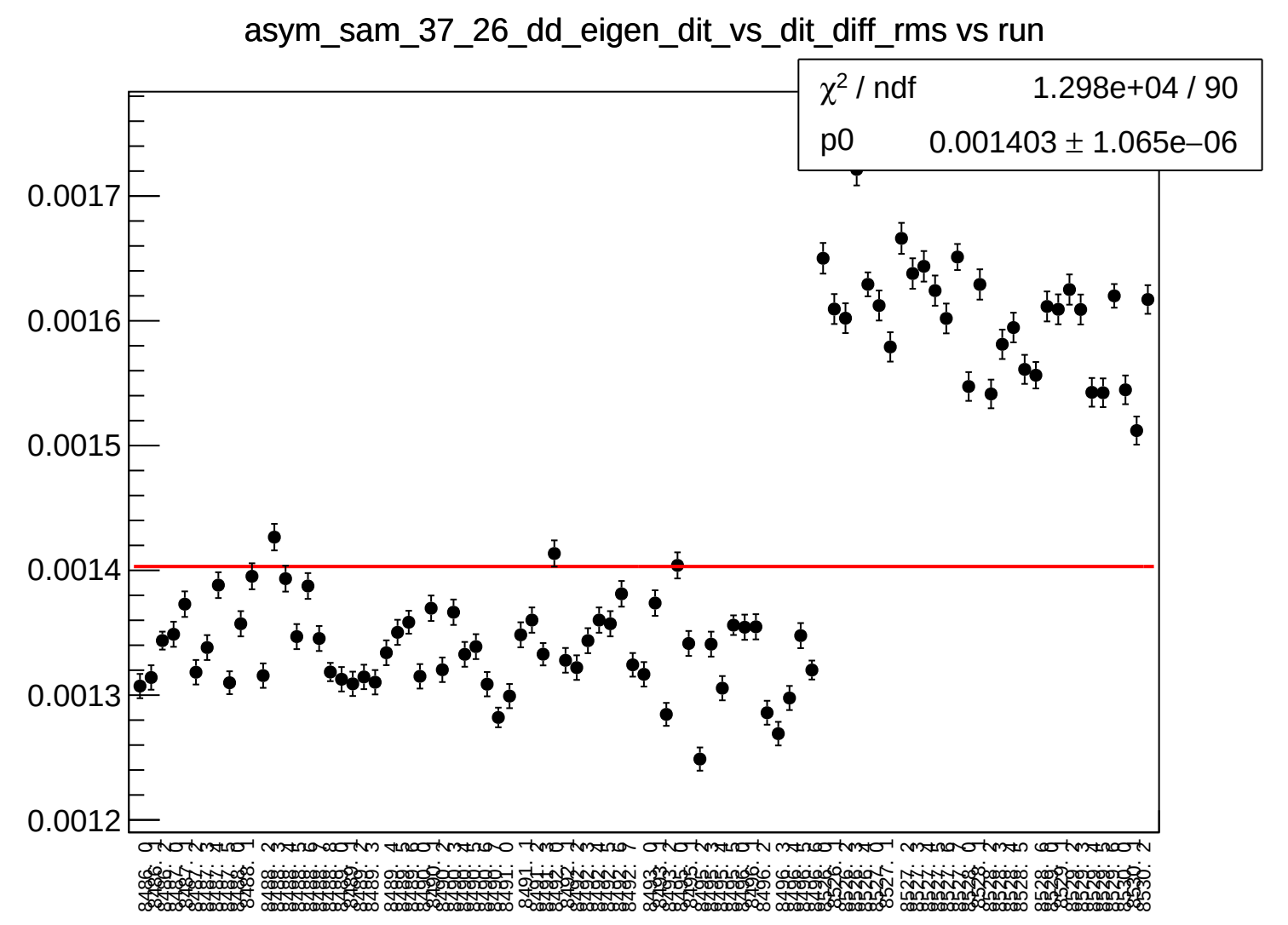

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.07 / 90
p0 0.03776 ± 0.03421
pull
Entries 91
Mean 61.3
Std Dev 10.23

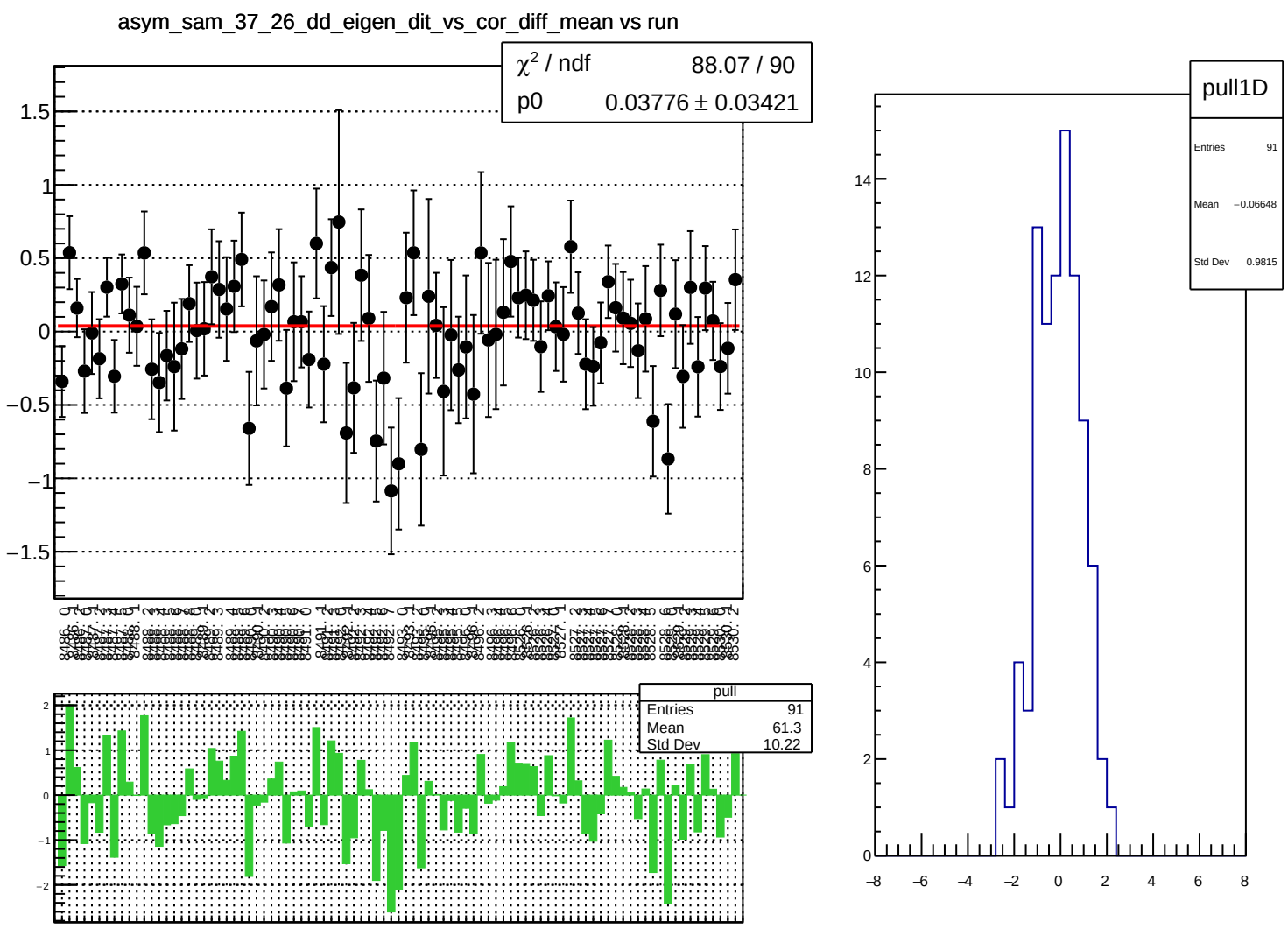

pull1D
Entries 91
Mean −0.06648
Std Dev 0.9815

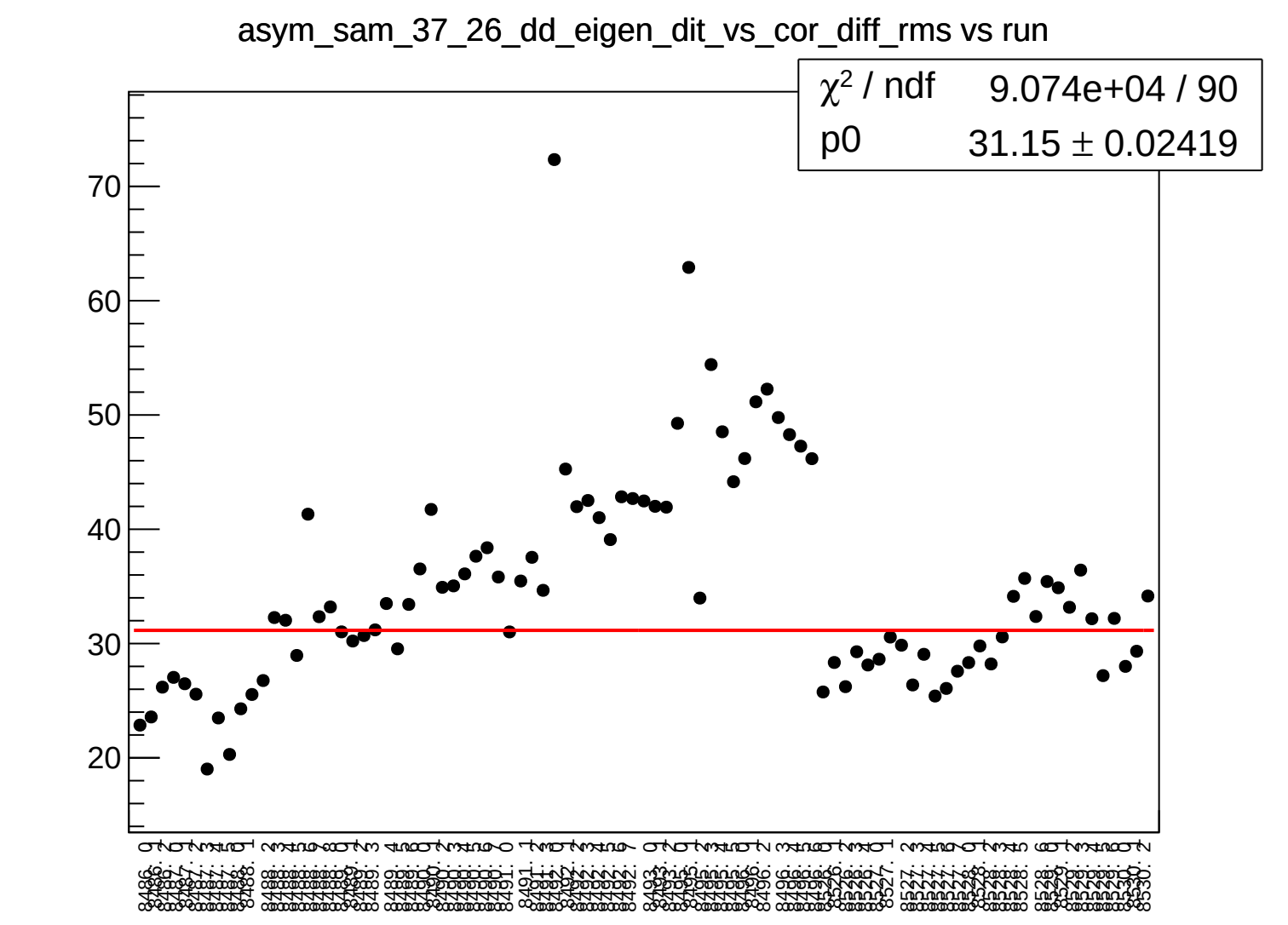

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.073e+04 / 90
p0 31.15 ± 0.02419
70
60
50
40
30
20

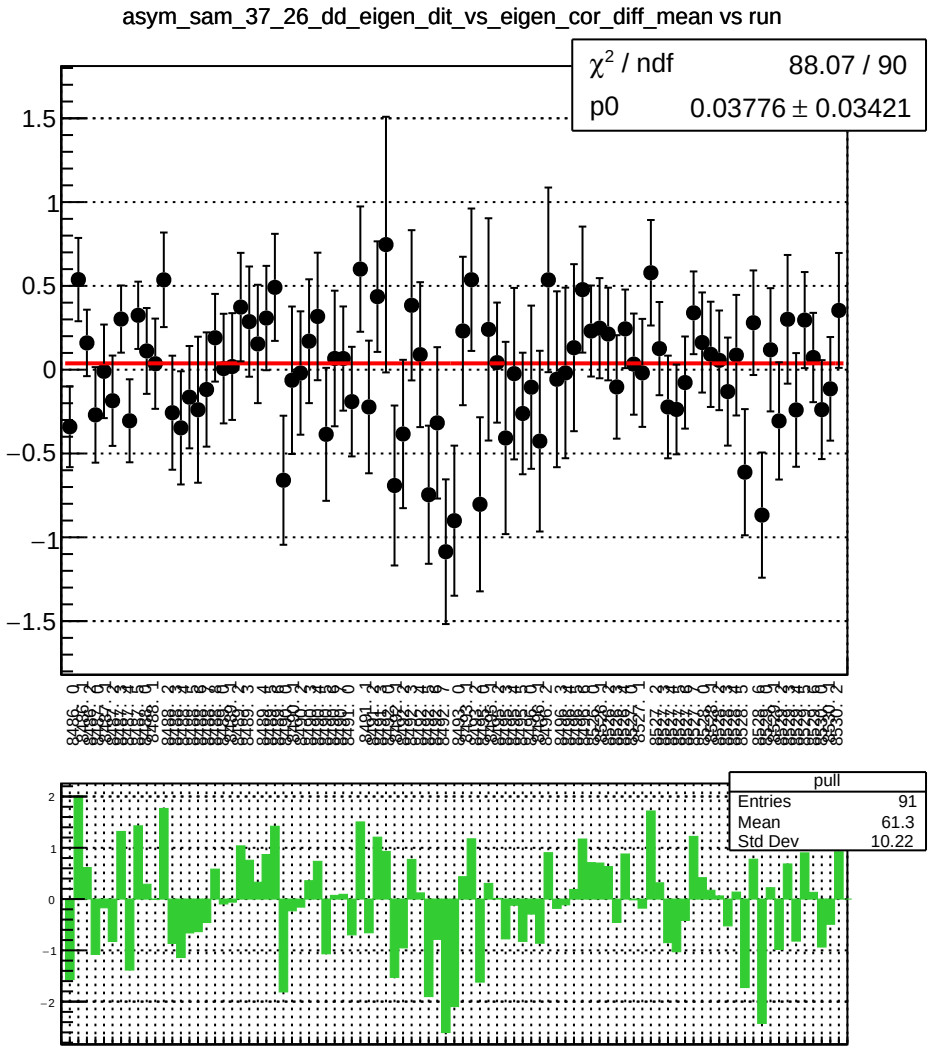

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.35 / 90
p0 7.25e−07 ± 1.506e−06
pull
Entries 91
Mean 131.1
Std Dev 0

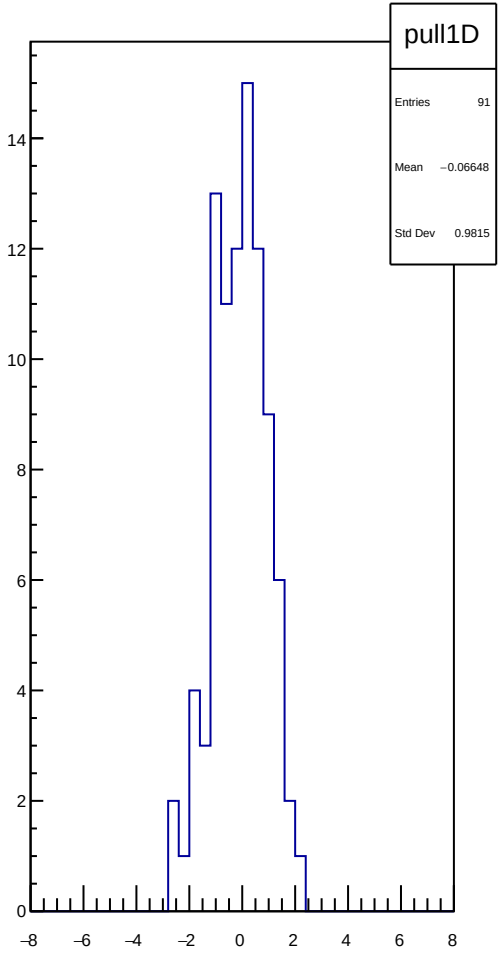

pull1D
Entries 91
Mean −0.01779
Std Dev 0.9395

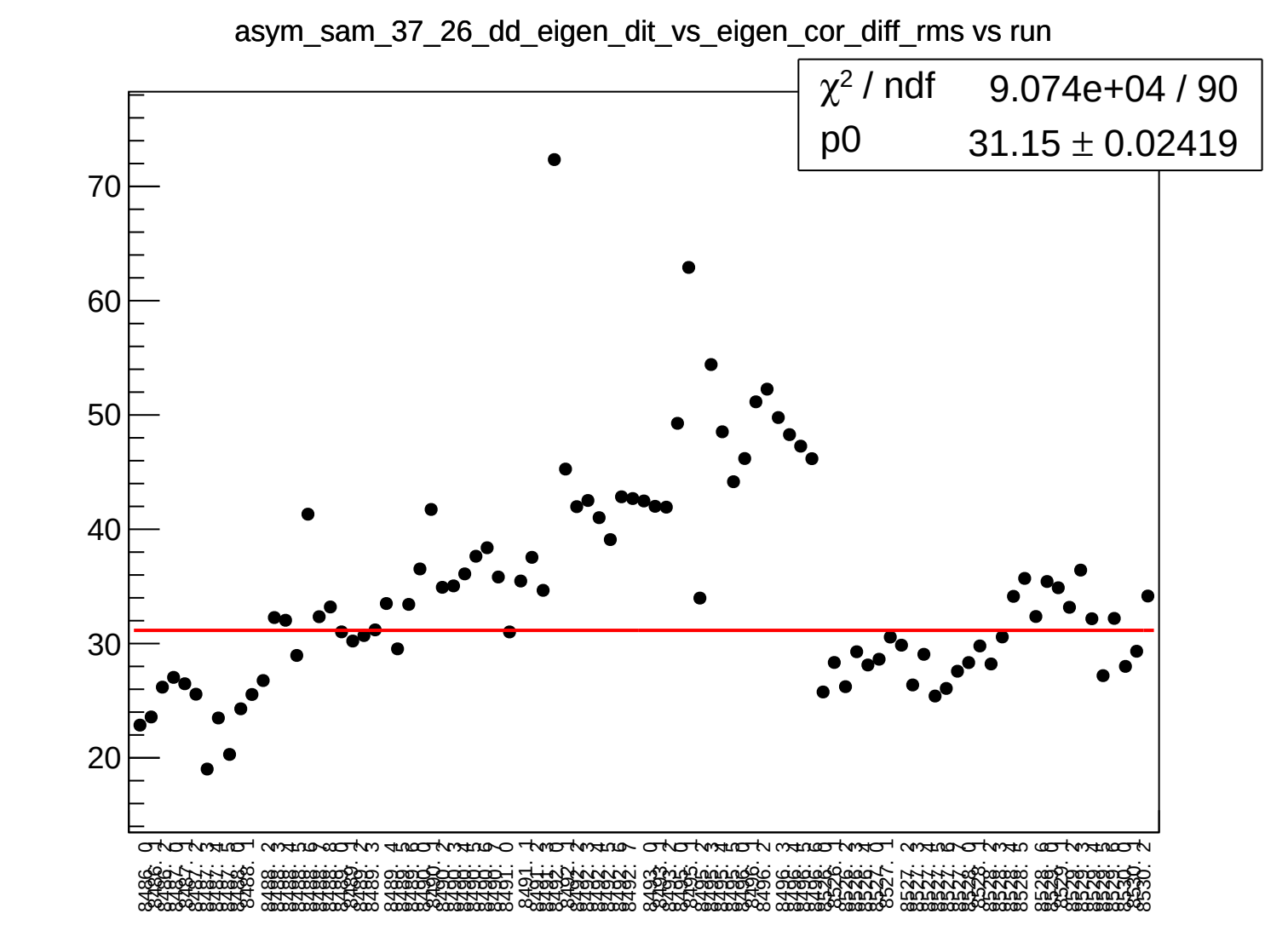

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.298e+04 / 90
p0 0.001403 ± 1.065e−06
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012

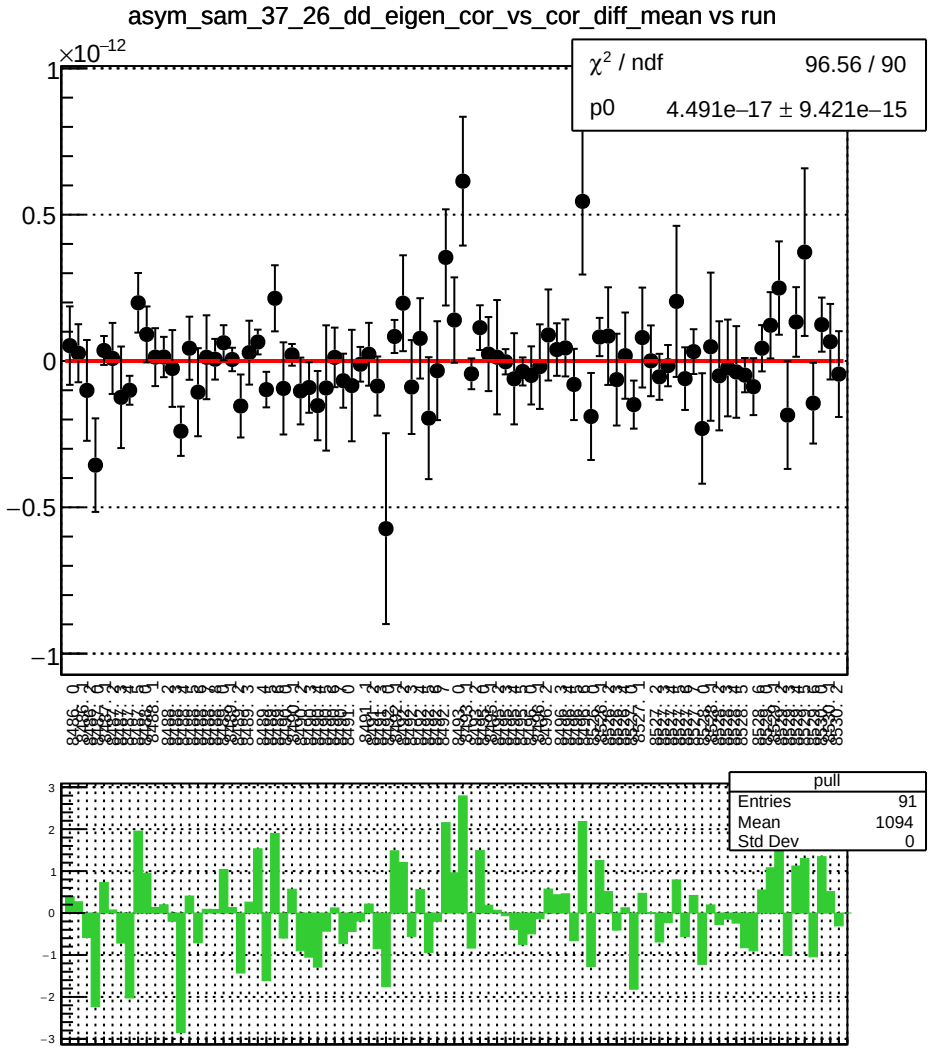

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.07 / 90
p0 0.03776 ± 0.03421
pull
Entries 91
Mean 61.3
Std Dev 10.22
pull1D
Entries 91
Mean −0.06648
Std Dev 0.9815

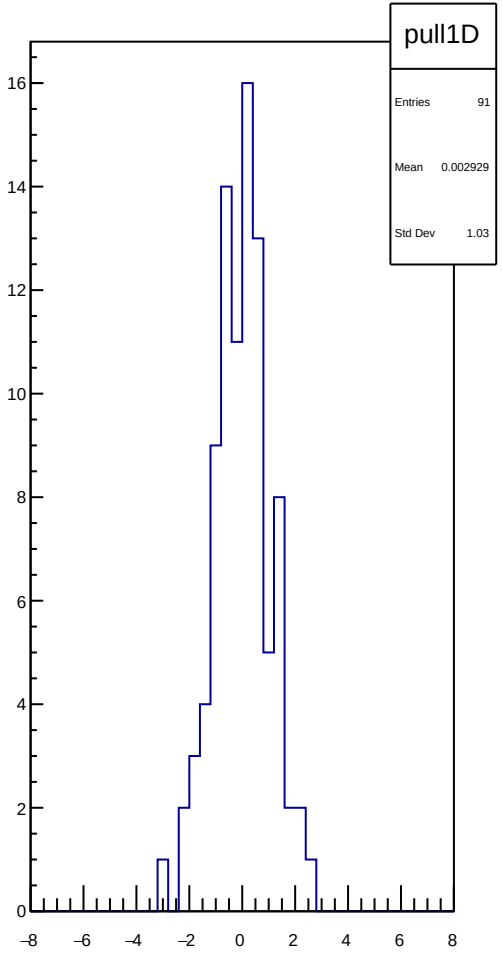

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.074e+04 / 90
p0 31.15 ± 0.02419
70
60
50
40
30
20

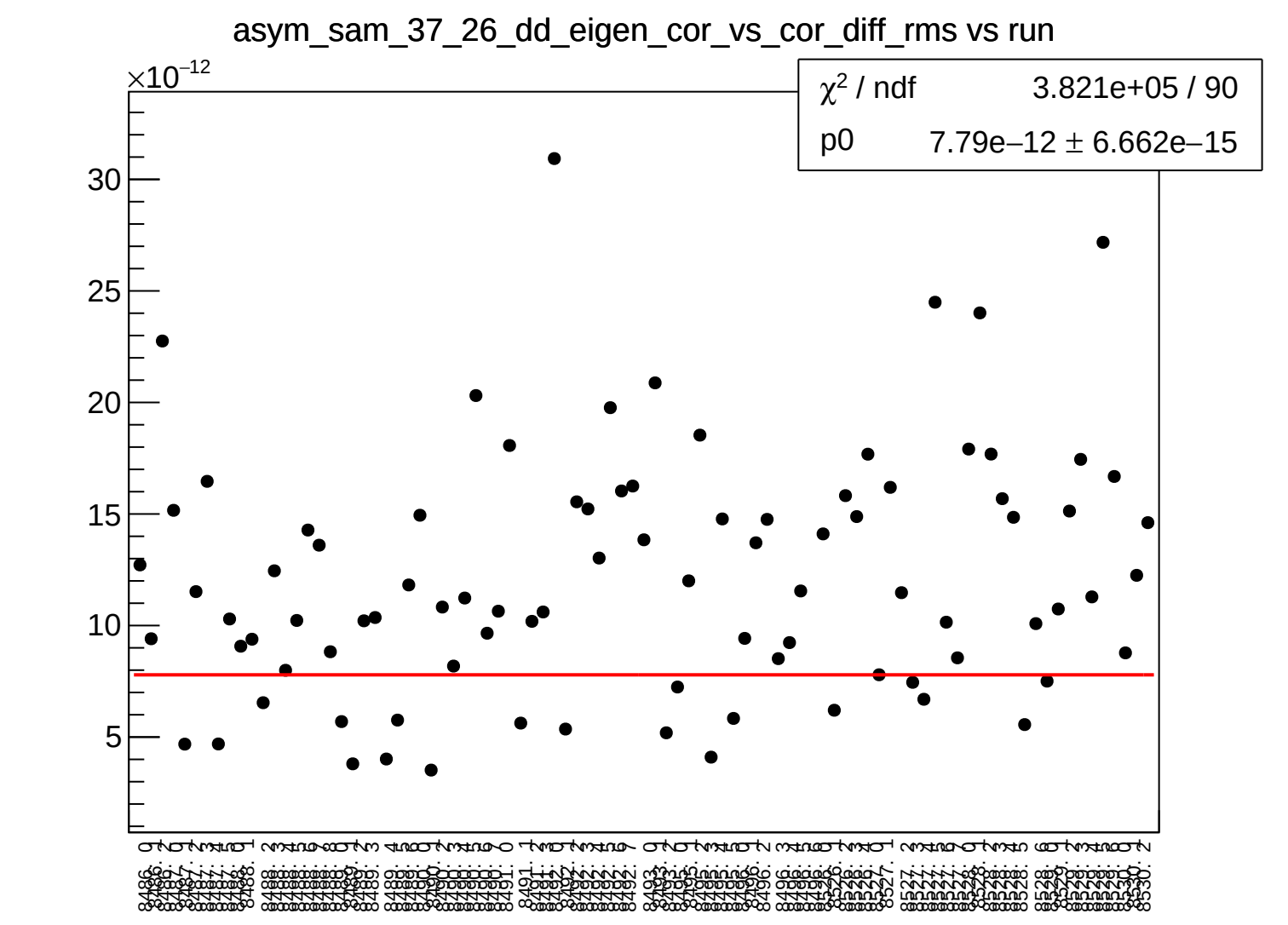

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.07 / 90
p0 0.03776 ± 0.03421
pull
Entries 91
Mean 61.3
Std Dev 10.22

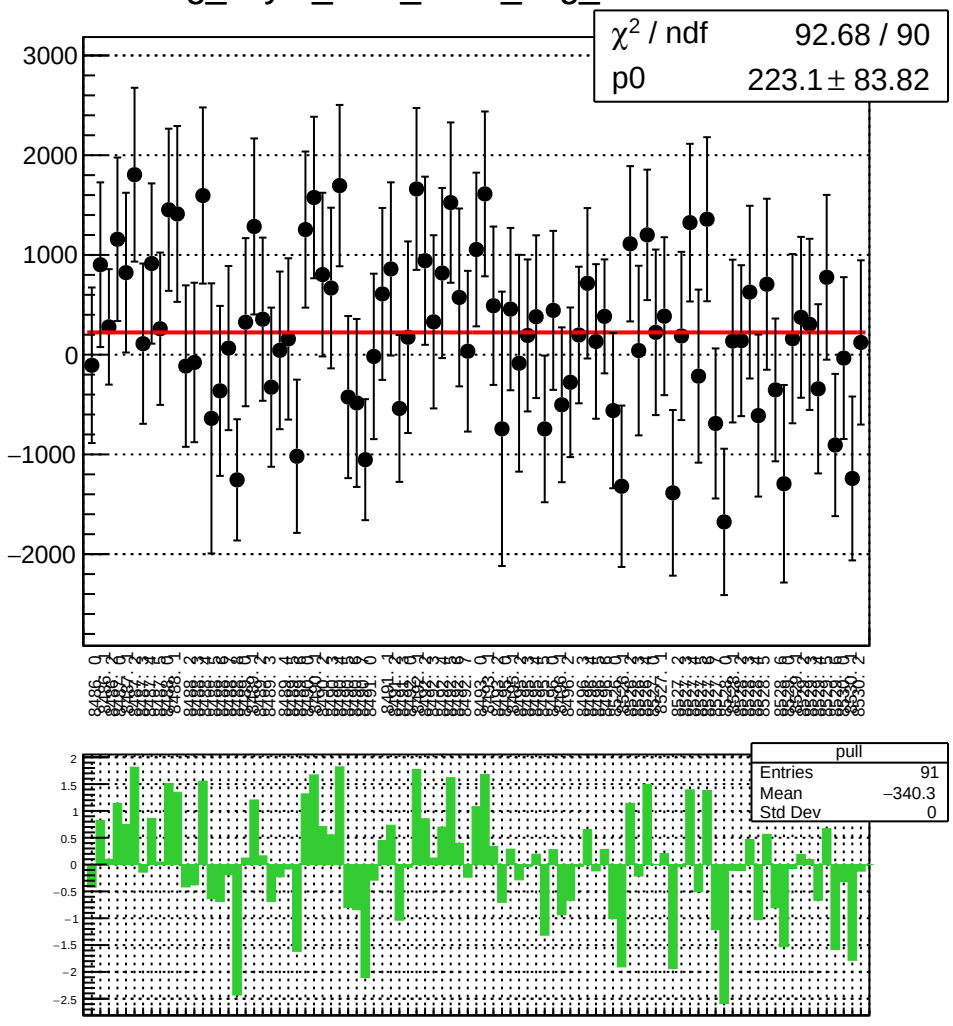

pull1D
Entries 91
Mean −0.06648
Std Dev 0.9815

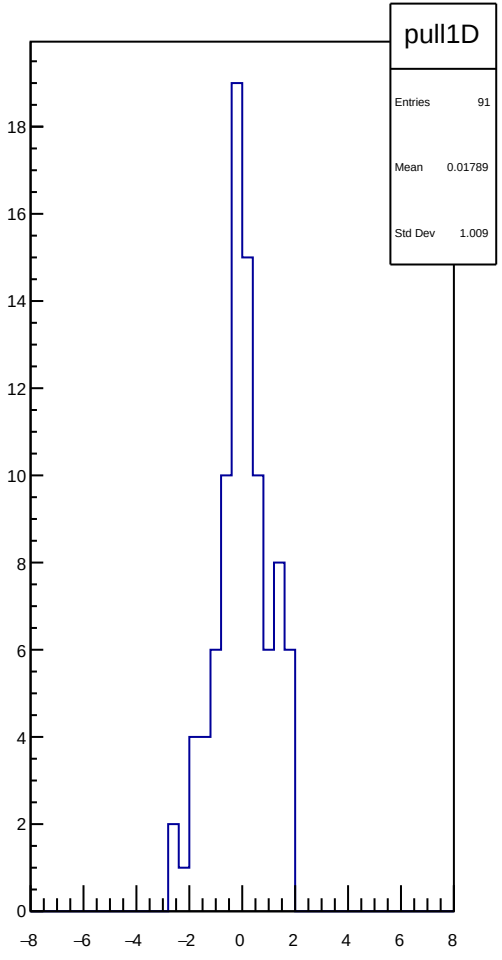

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.074e+04 / 90
p0 31.15 ± 0.02419
70
60
50
40
30
20

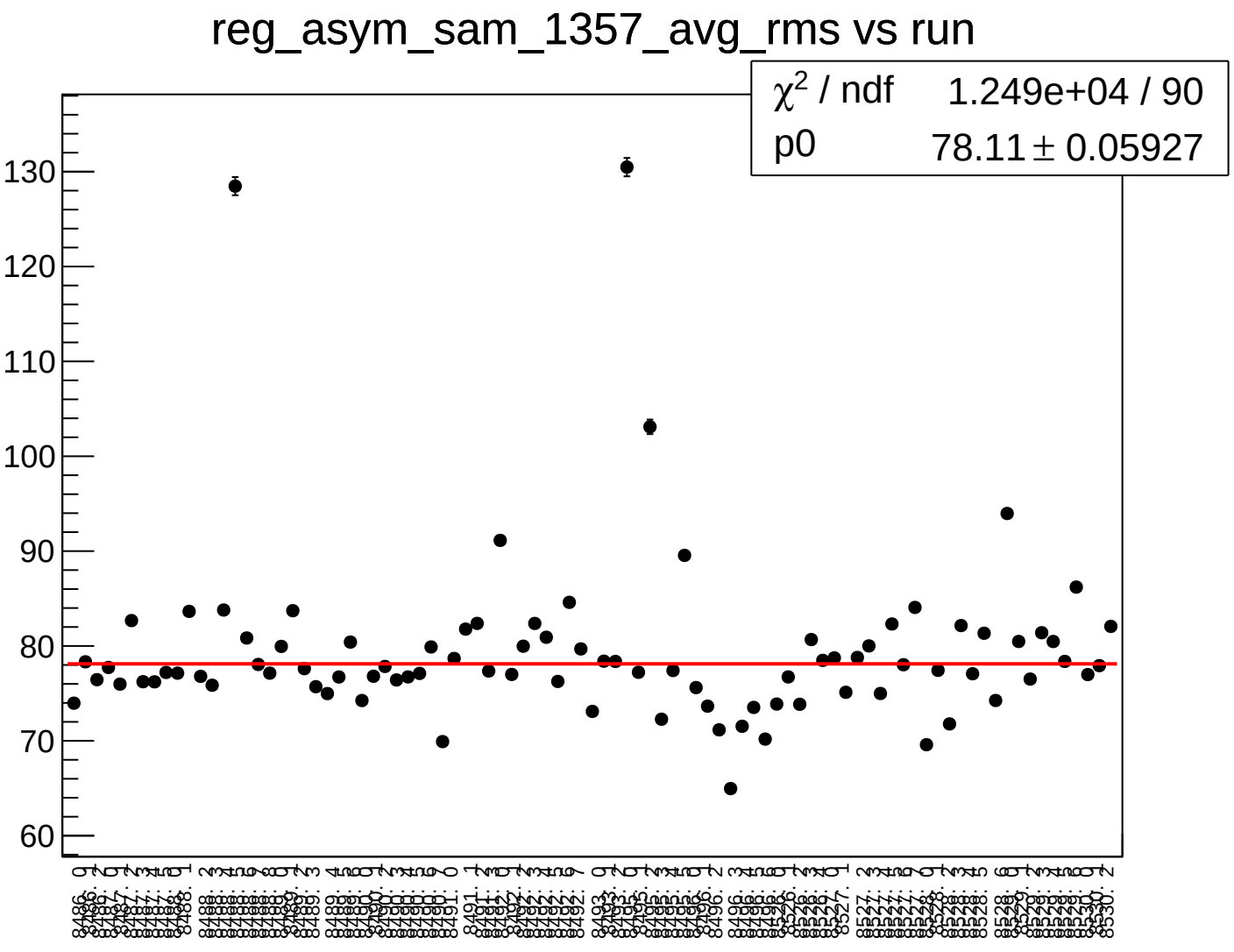

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.56 / 90
p0 4.491e−17 ± 9.421e−15
pull
Entries 91
Mean 1094
Std Dev 0

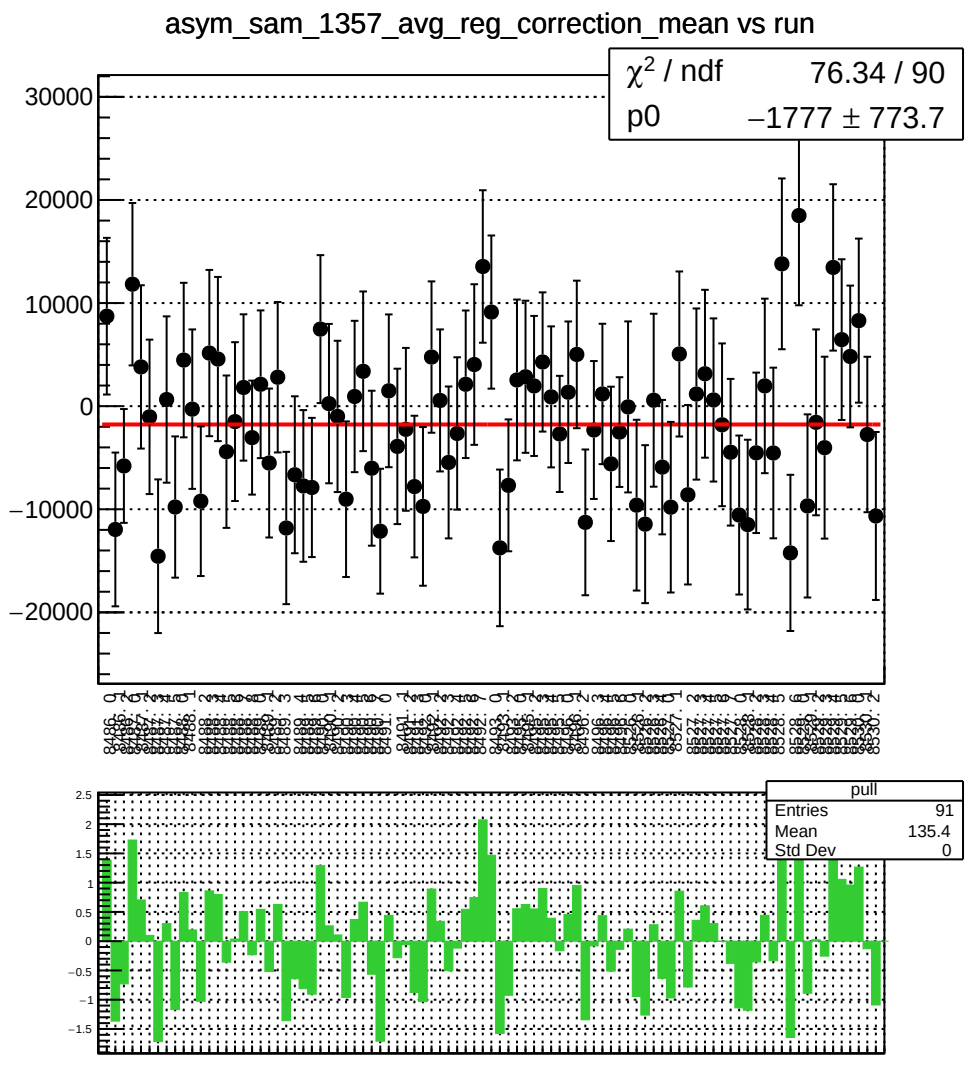

pull1D
Entries 91
Mean 0.002929
Std Dev 1.03

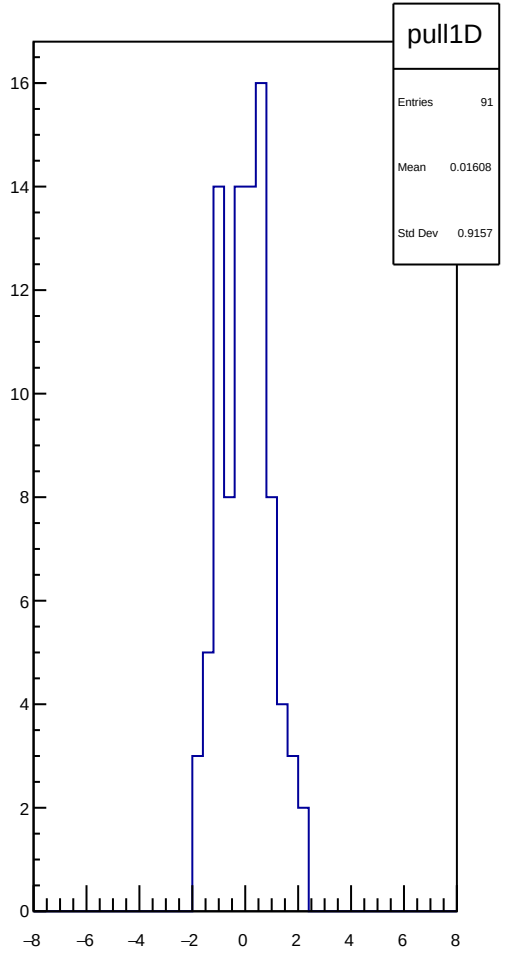

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.821e+05 / 90
p0 7.79e−12 ± 6.662e−15
30
25
20
15
10
5


reg_asym_sam_1357_avg_mean vs run
χ² / ndf 92.68 / 90
p0 223.1 ± 83.82
pull
Entries 91
Mean −340.3
Std Dev 0


pull1D
Entries 91
Mean 0.01789
Std Dev 1.009


reg_asym_sam_1357_avg_rms vs run
χ^2 / ndf 1.249e+04 / 90
p0 78.11 ± 0.05927
130
120
110
100
90
80
70
60


asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 76.34 / 90
p0 −1777 ± 773.7
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 135.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 91
Mean 0.01608
Std Dev 0.9157
16
14
12
10
8
6
4
2
0
−8
−6
−4
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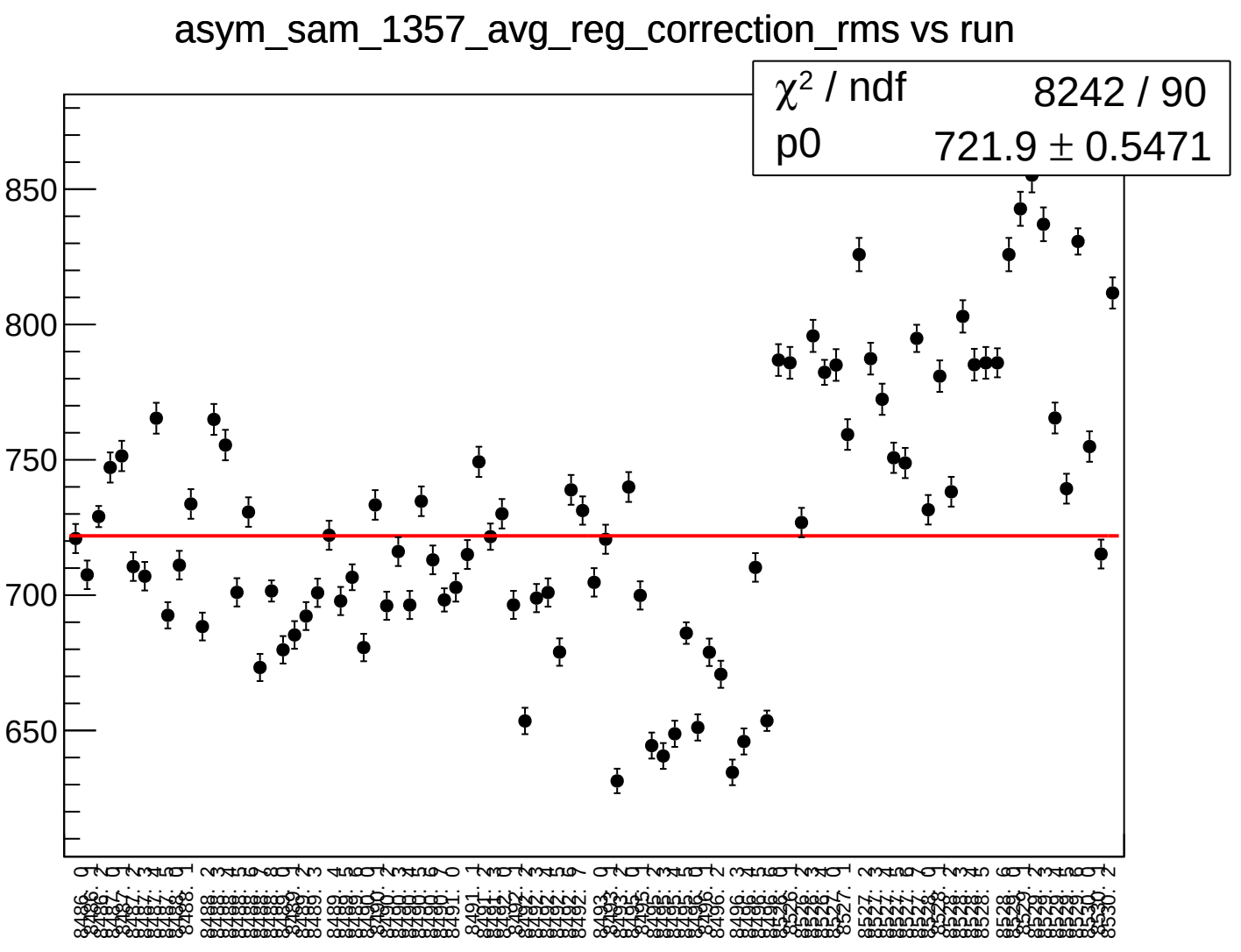
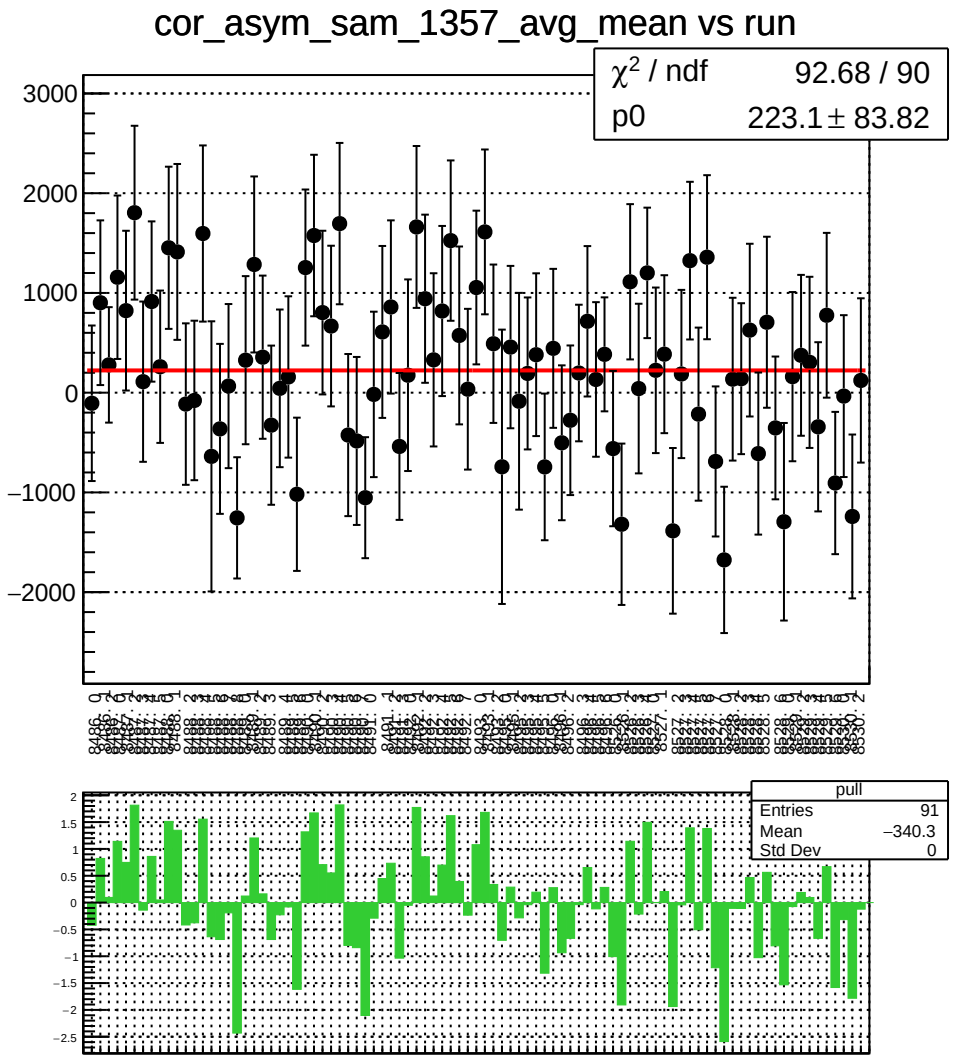
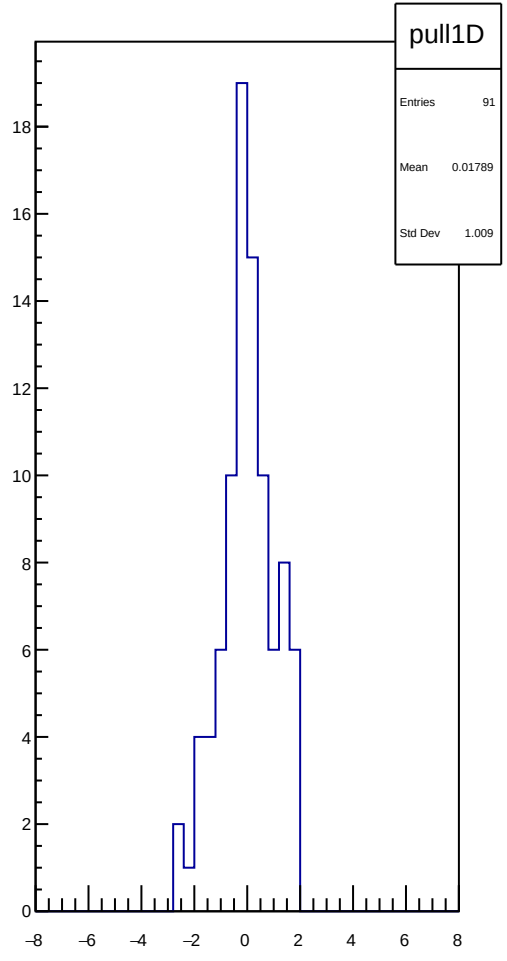
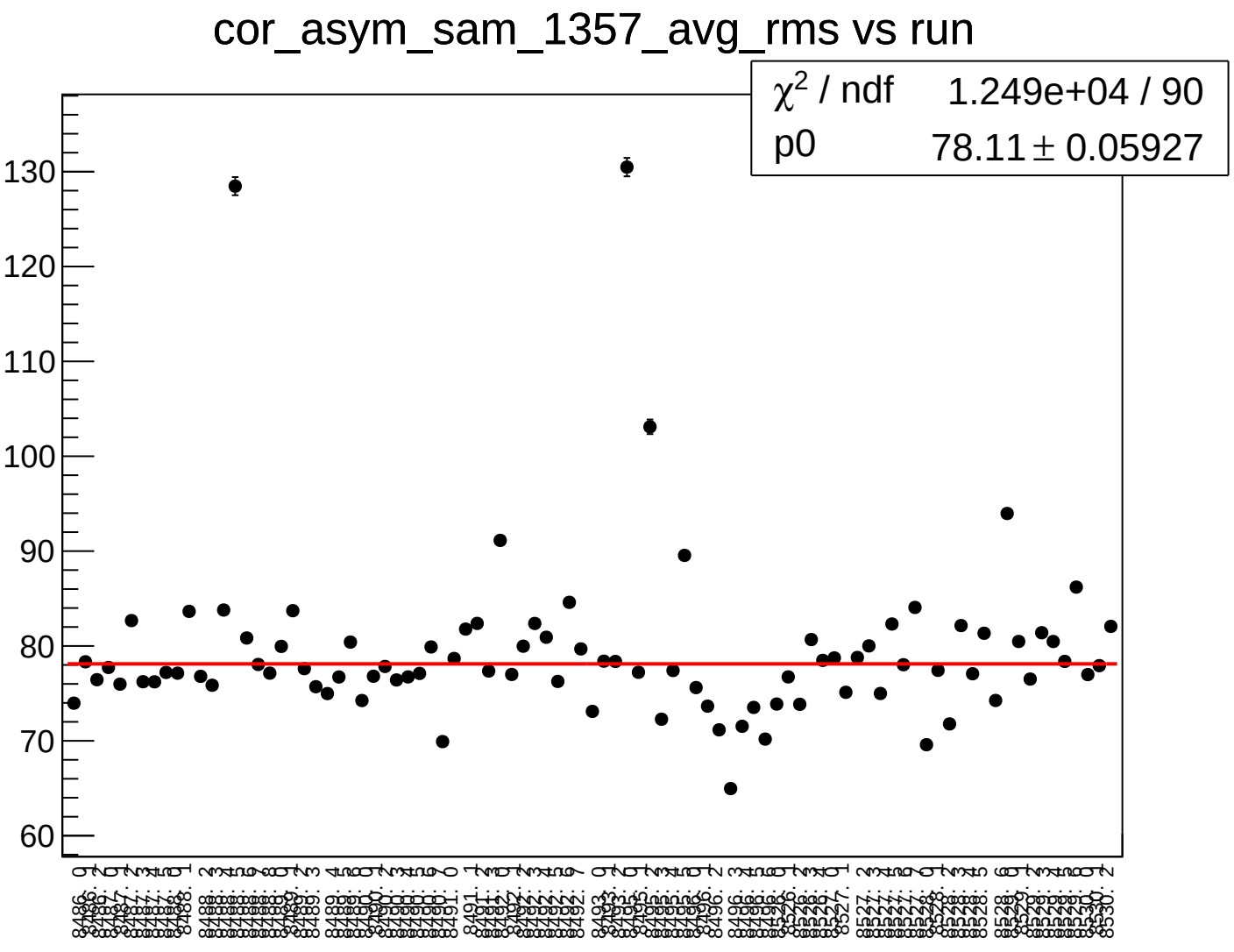
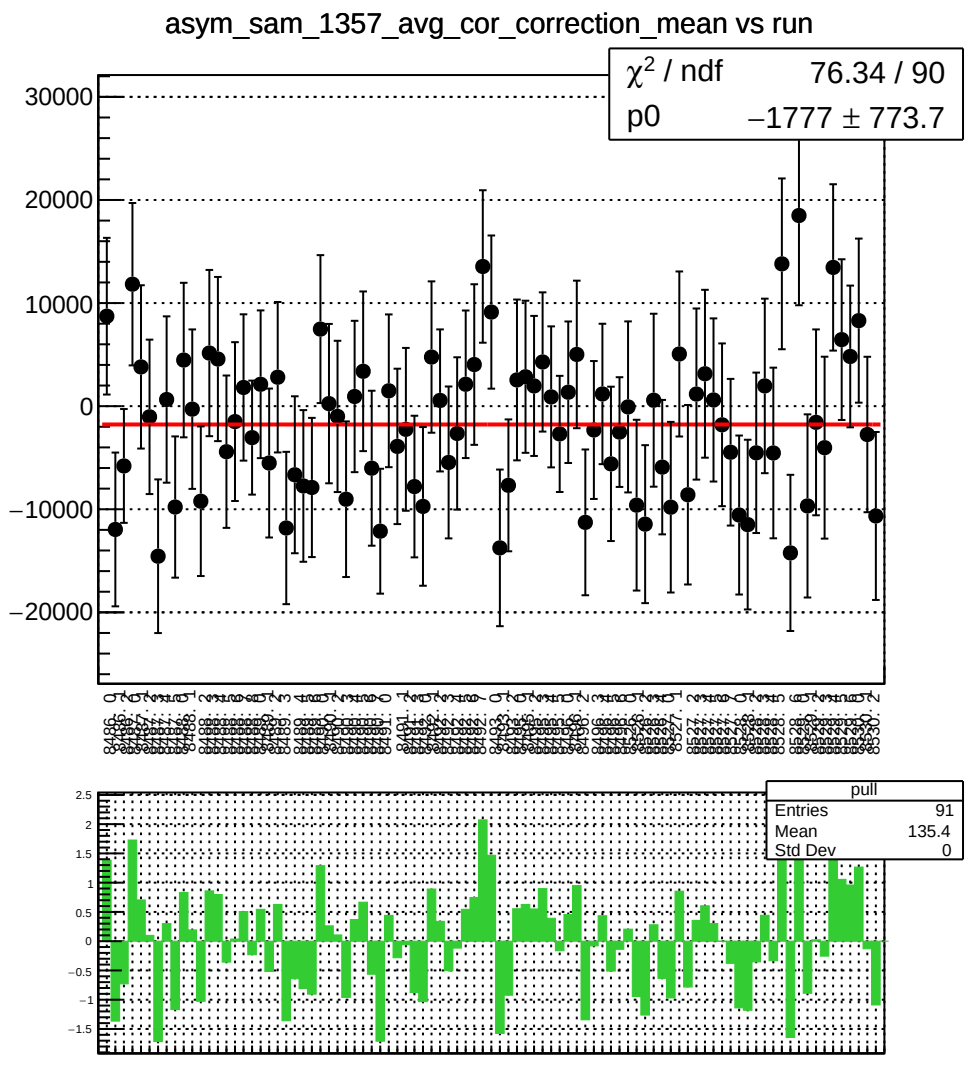
0
2
4
6
8

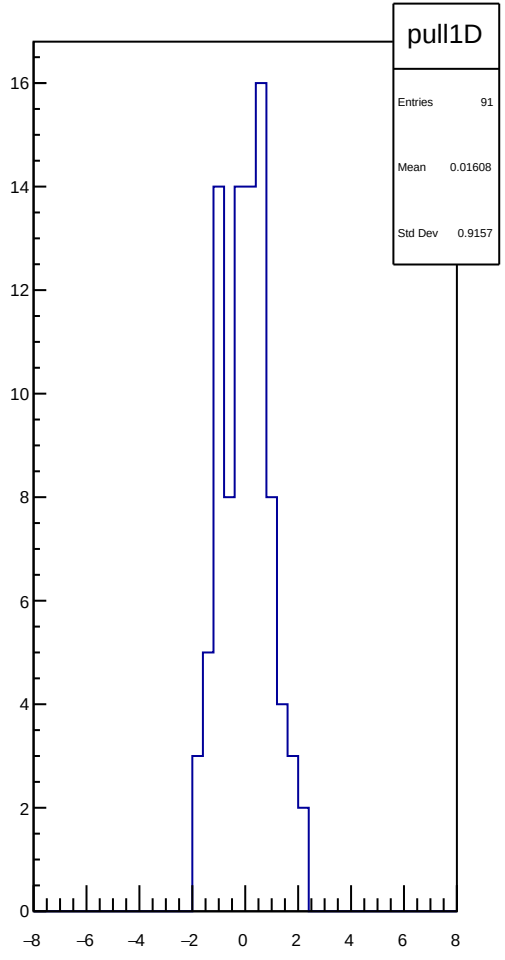

asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 8242 / 90
p0 721.9 ± 0.5471
850
800
750
700
650

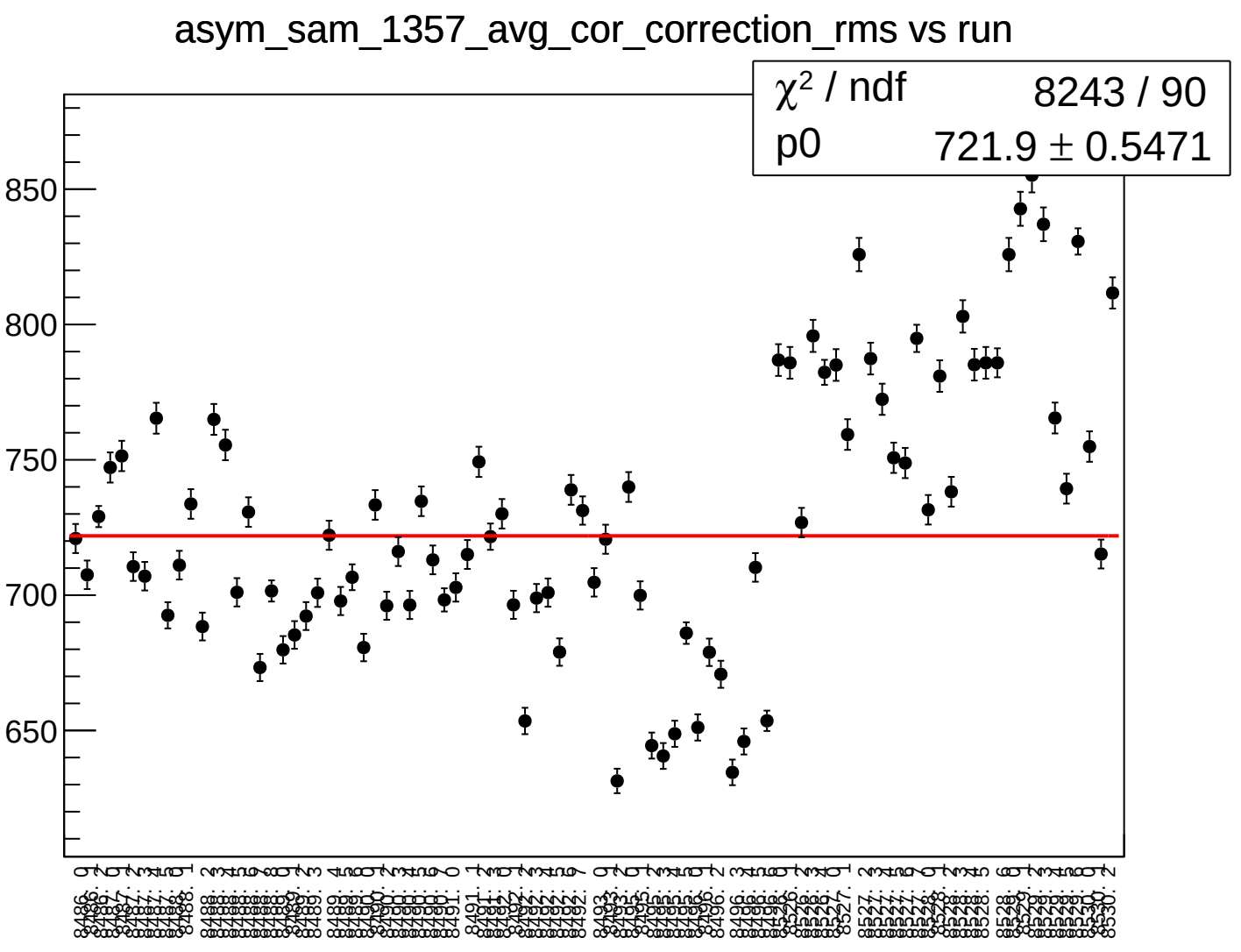

cor_asym_sam_1357_avg_mean vs run
χ² / ndf 92.68 / 90
p0 223.1 ± 83.82
3000
2000
1000
0
−1000
−2000
pull
Entries 91
Mean −340.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

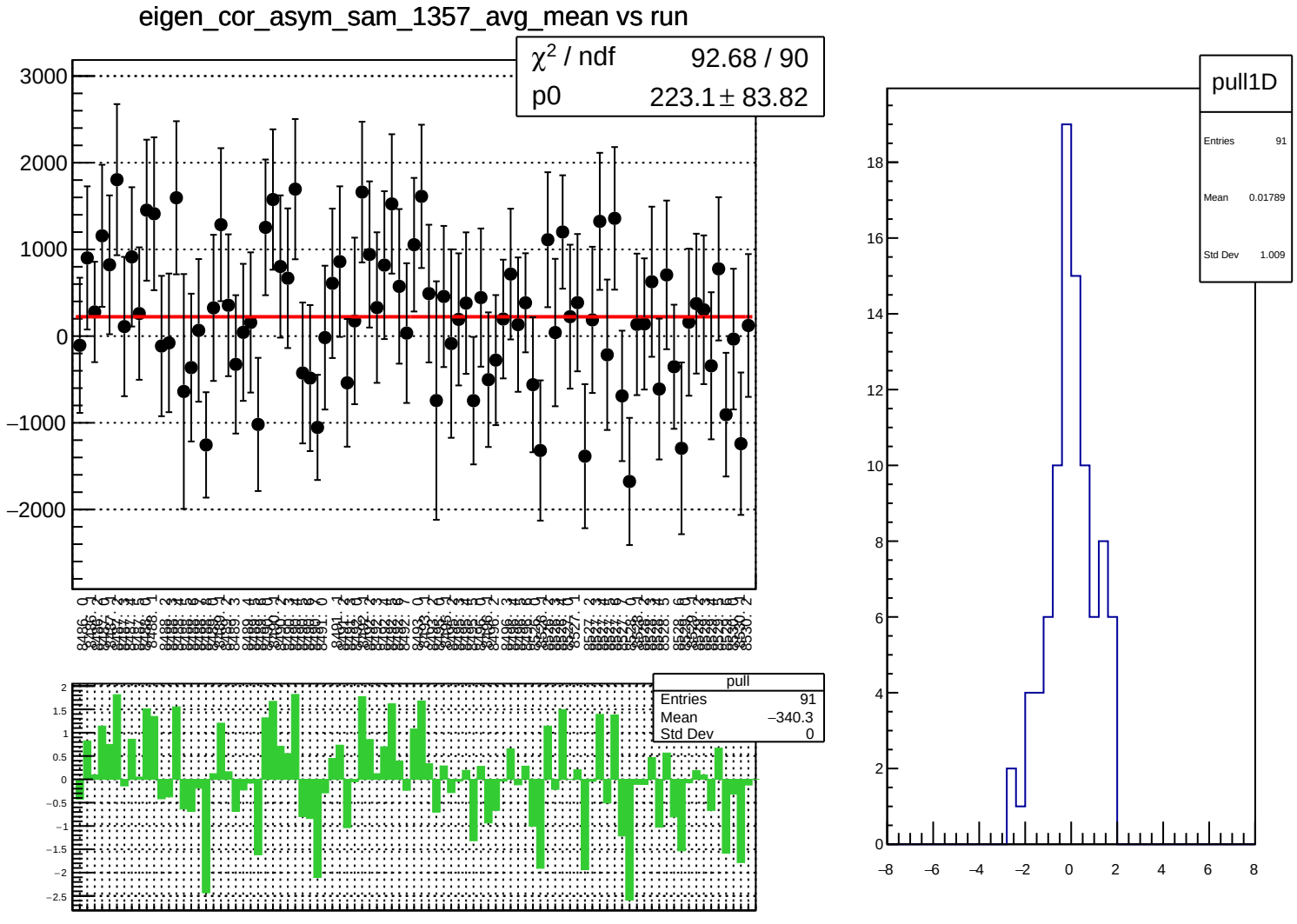

pull1D
Entries 91
Mean 0.01789
Std Dev 1.009
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

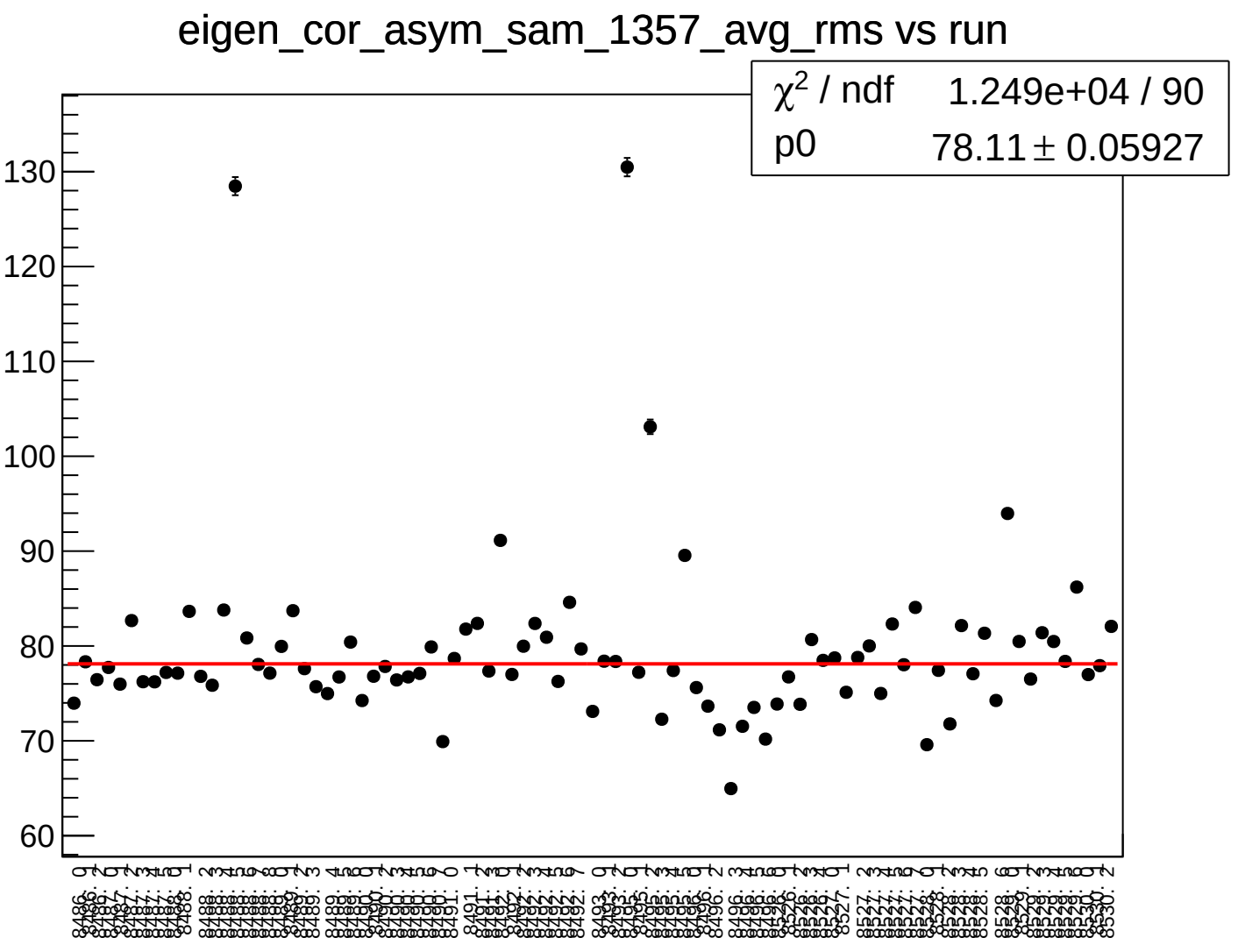

cor_asym_sam_1357_avg_rms vs run
χ^2 / ndf 1.249e+04 / 90
p0 78.11 ± 0.05927
130
120
110
100
90
80
70
60

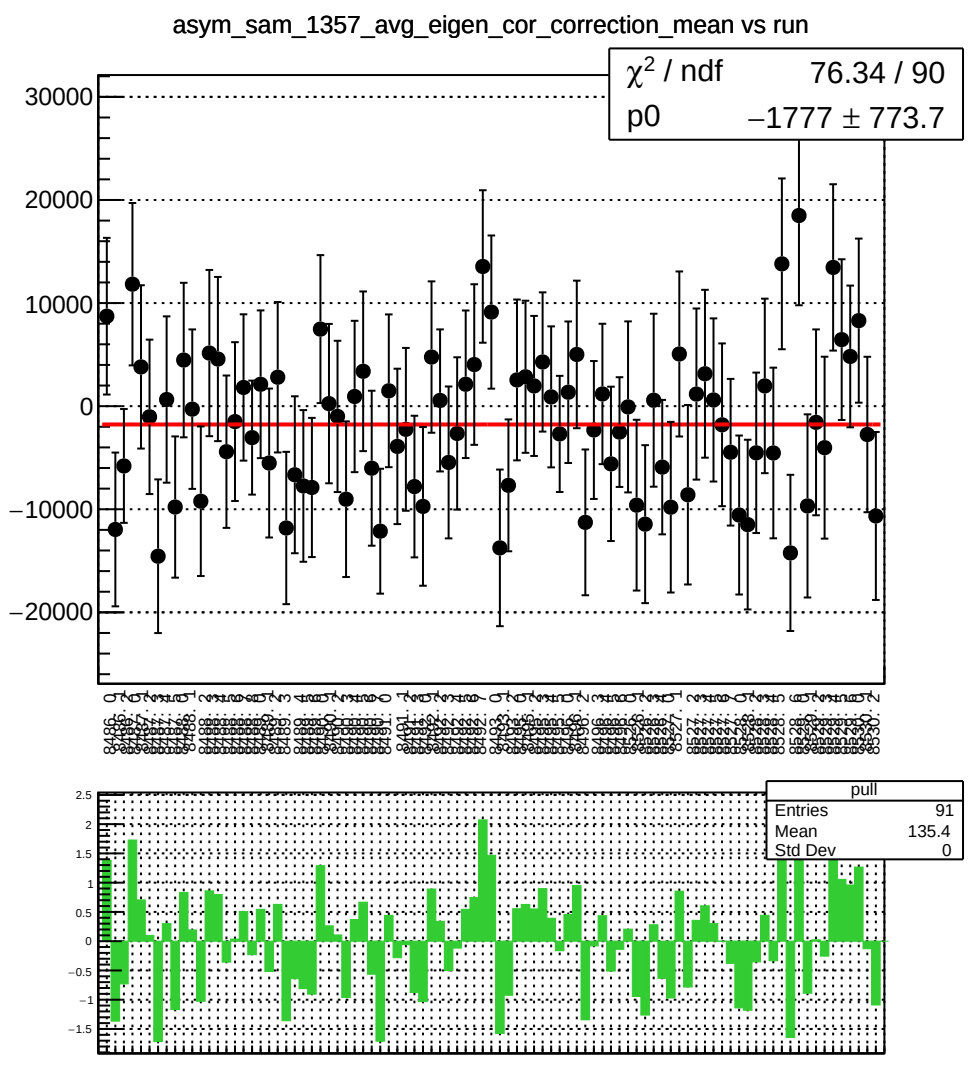

asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 76.34 / 90
p0 −1777 ± 773.7
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 135.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

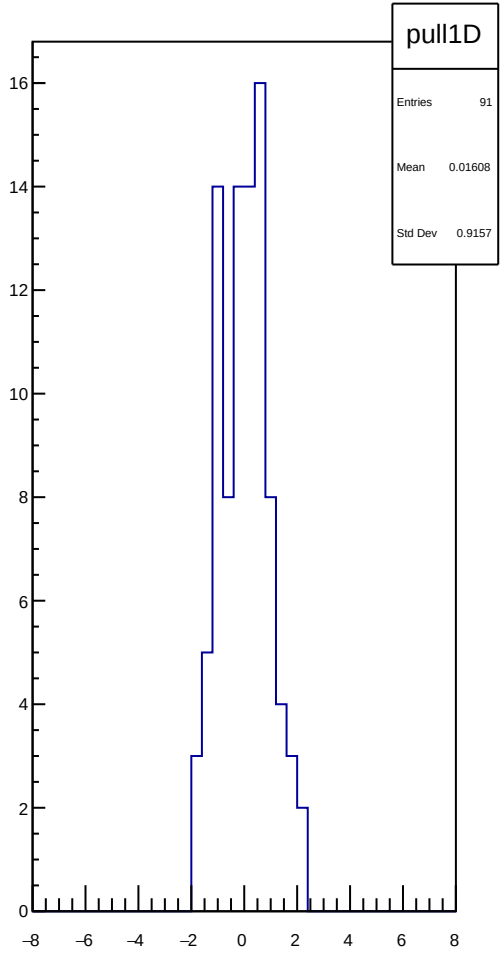

pull1D
Entries 91
Mean 0.01608
Std Dev 0.9157
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

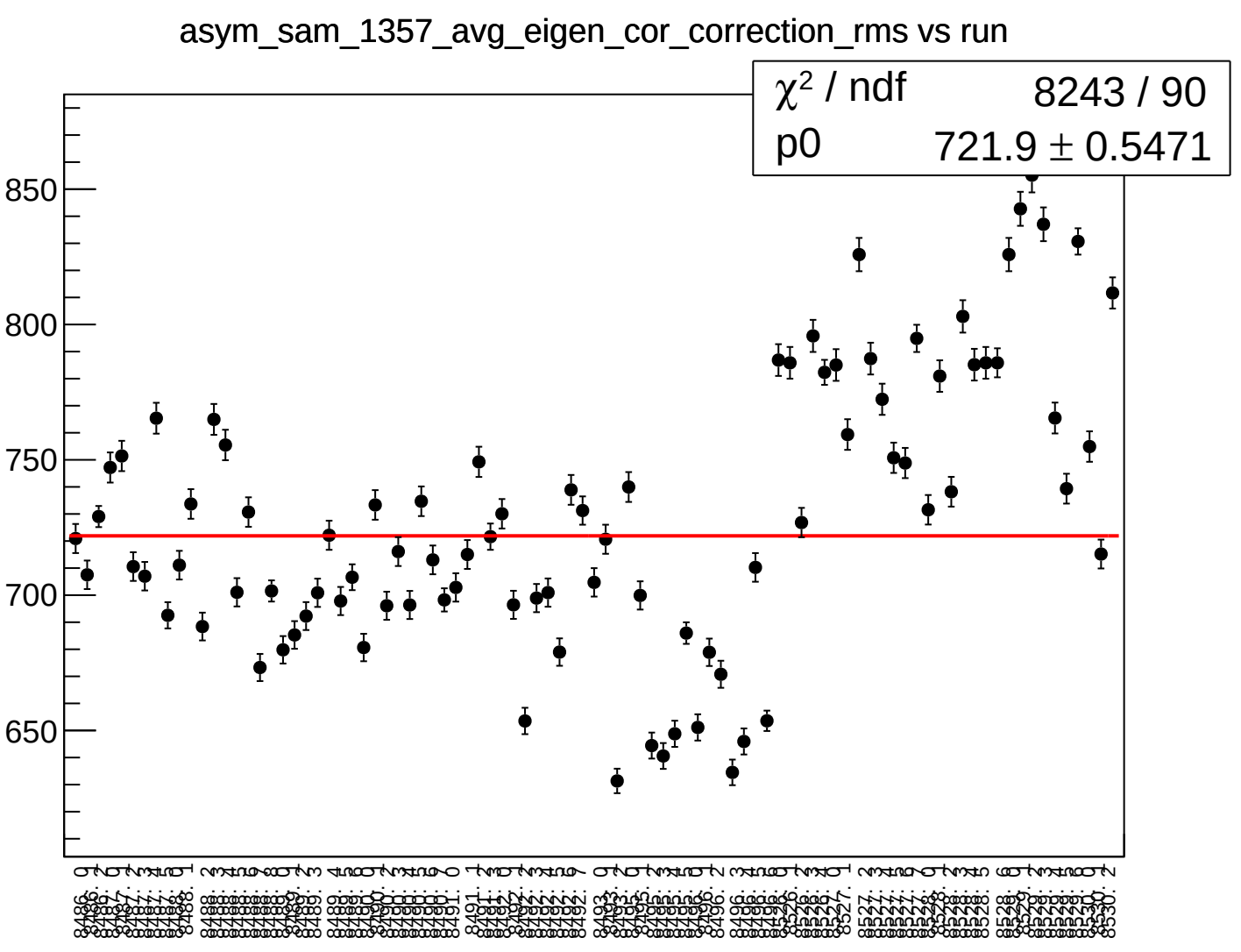

asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 8243 / 90
p0 721.9 ± 0.5471
850
800
750
700
650

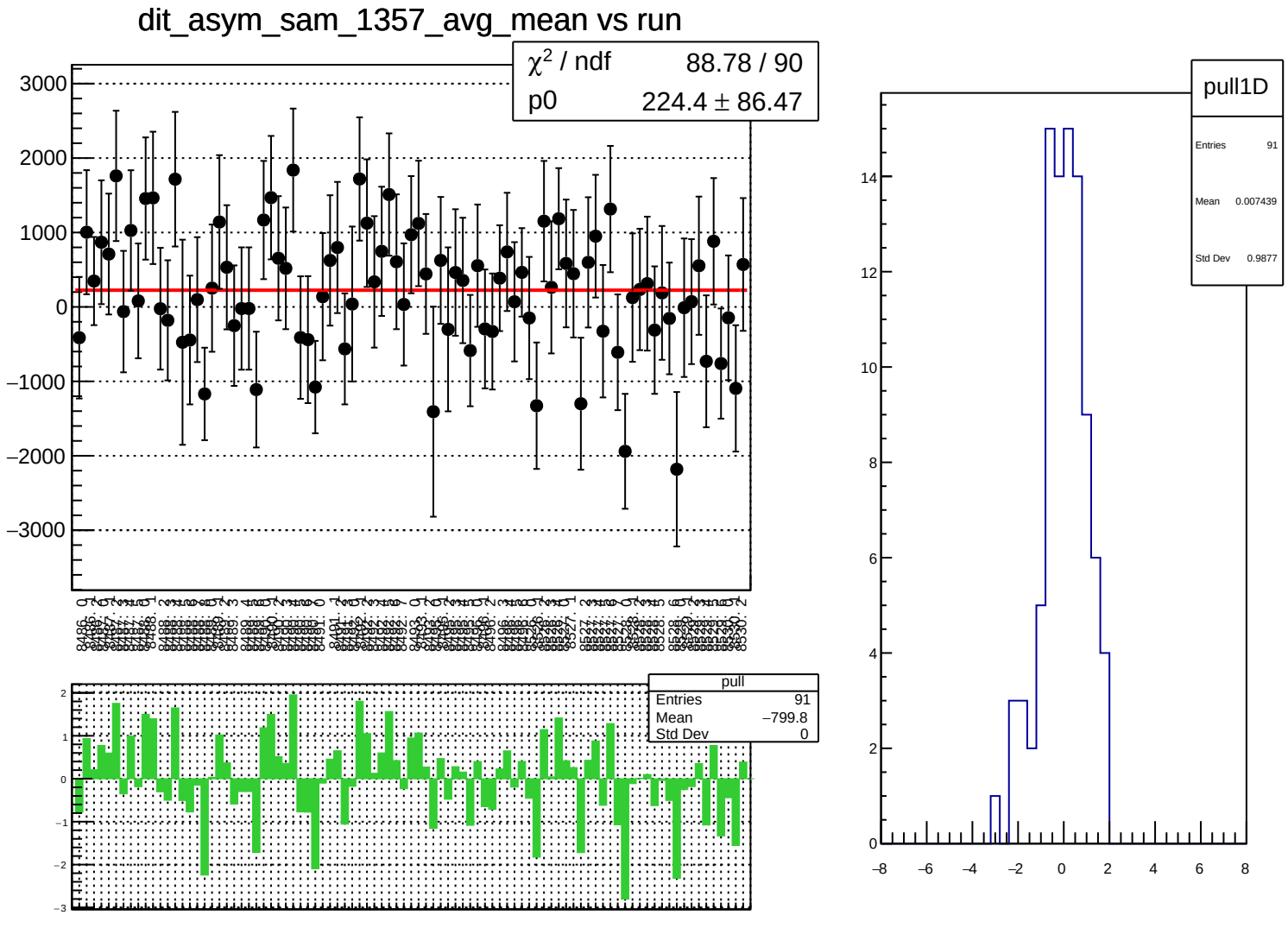

eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 92.68 / 90
p0 223.1 ± 83.82
3000
2000
1000
0
−1000
−2000
pull
Entries 91
Mean −340.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 91
Mean 0.01789
Std Dev 1.009
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

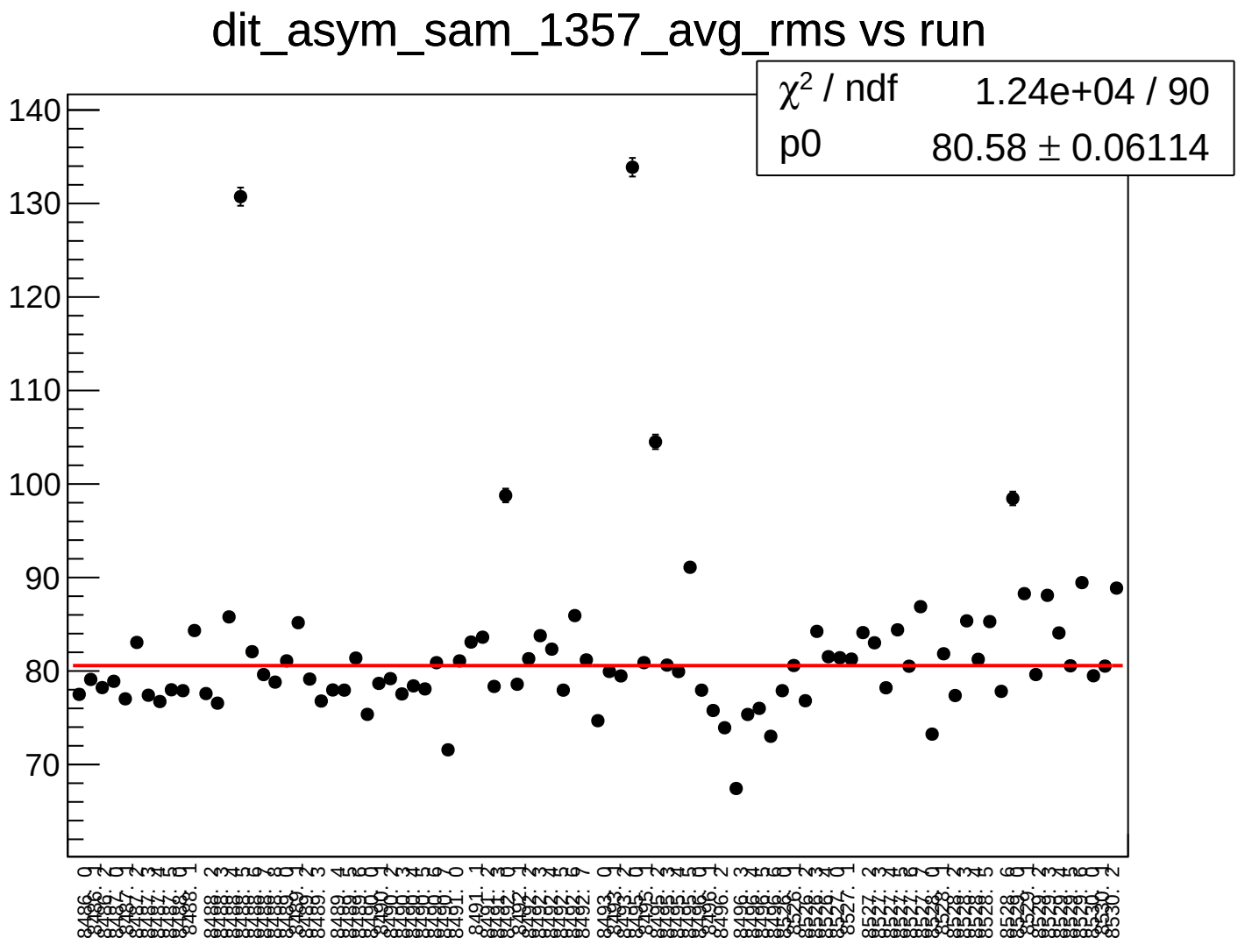

eigen_cor_asym_sam_1357_avg_rms vs run
χ^2 / ndf 1.249e+04 / 90
p0 78.11 ± 0.05927
130
120
110
100
90
80
70
60

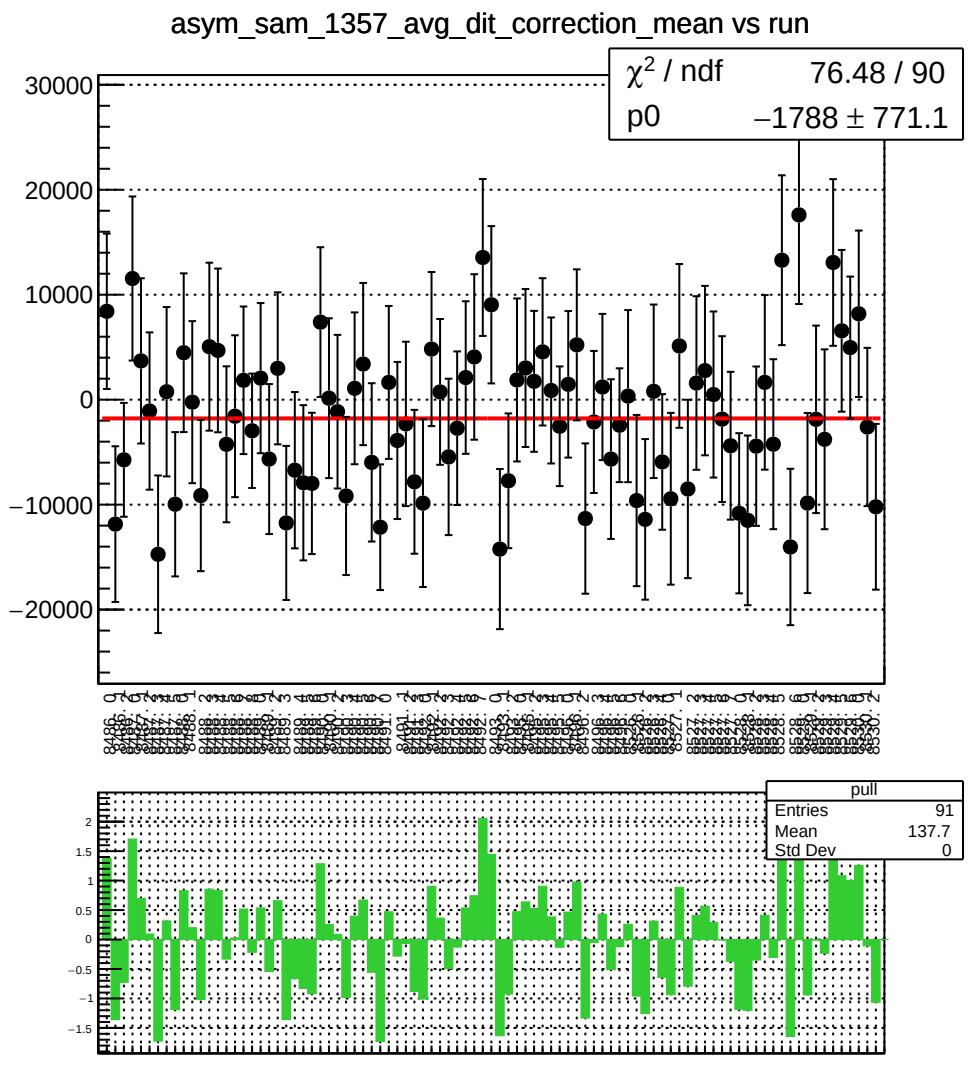

asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 76.34 / 90
p0 −1777 ± 773.7
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 135.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

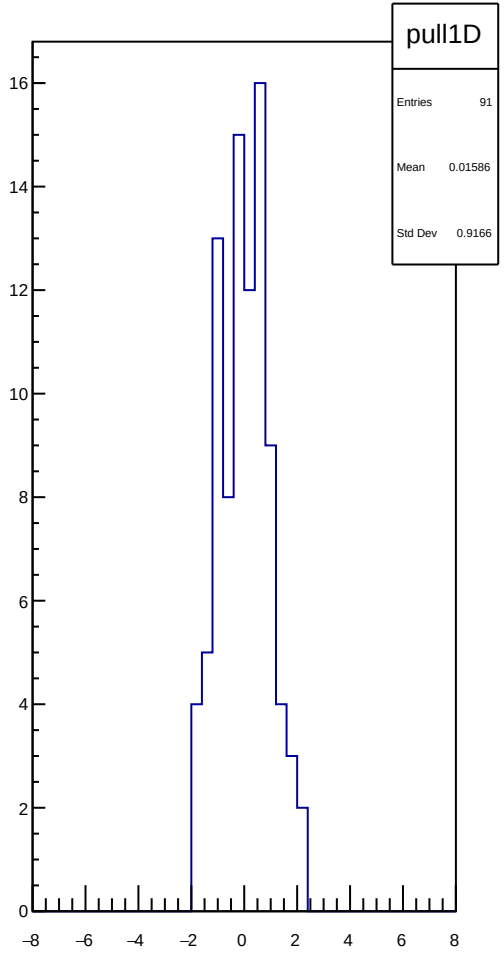

pull1D
Entries 91
Mean 0.01608
Std Dev 0.9157
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

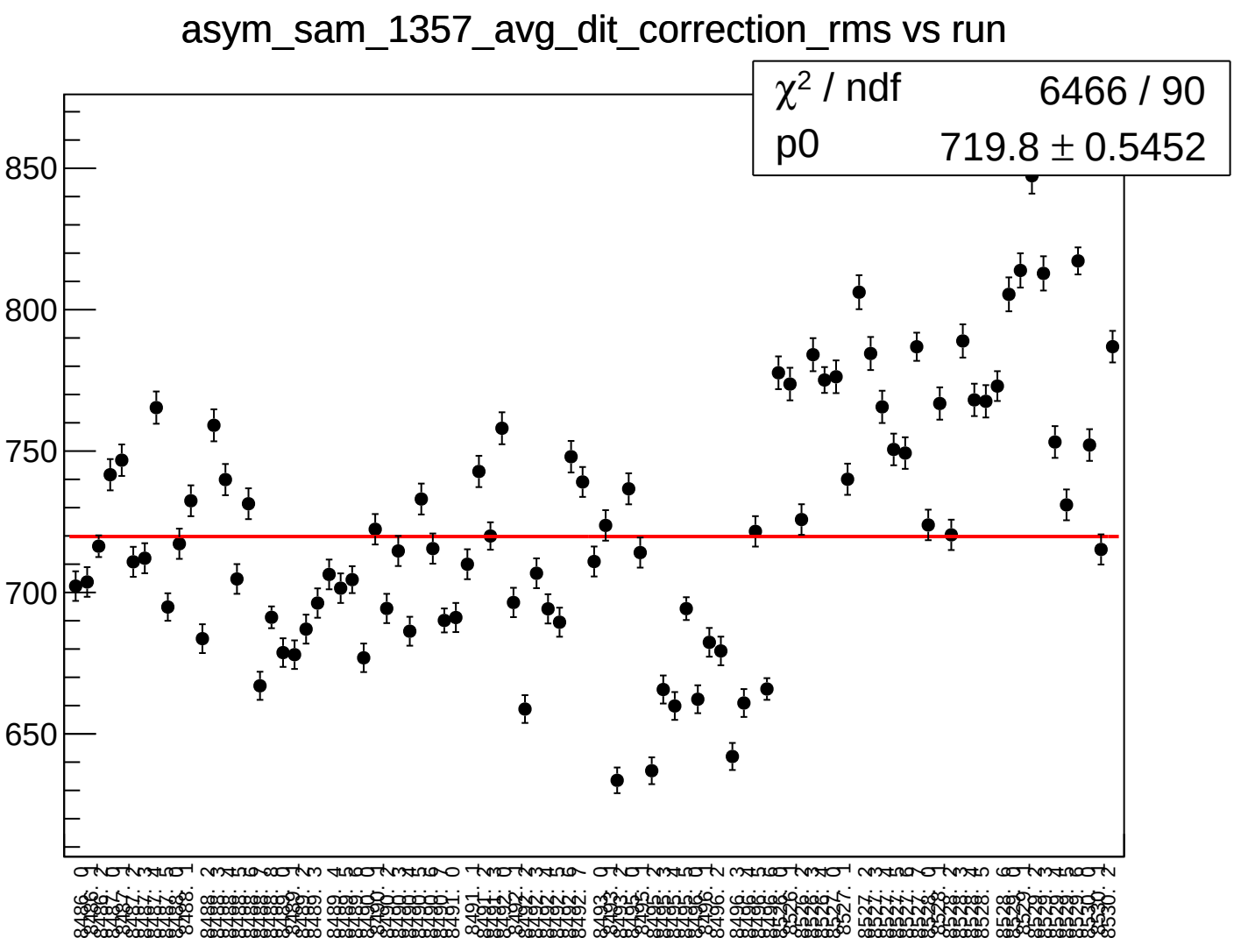

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 8243 / 90
p0 721.9 ± 0.5471
850
800
750
700
650

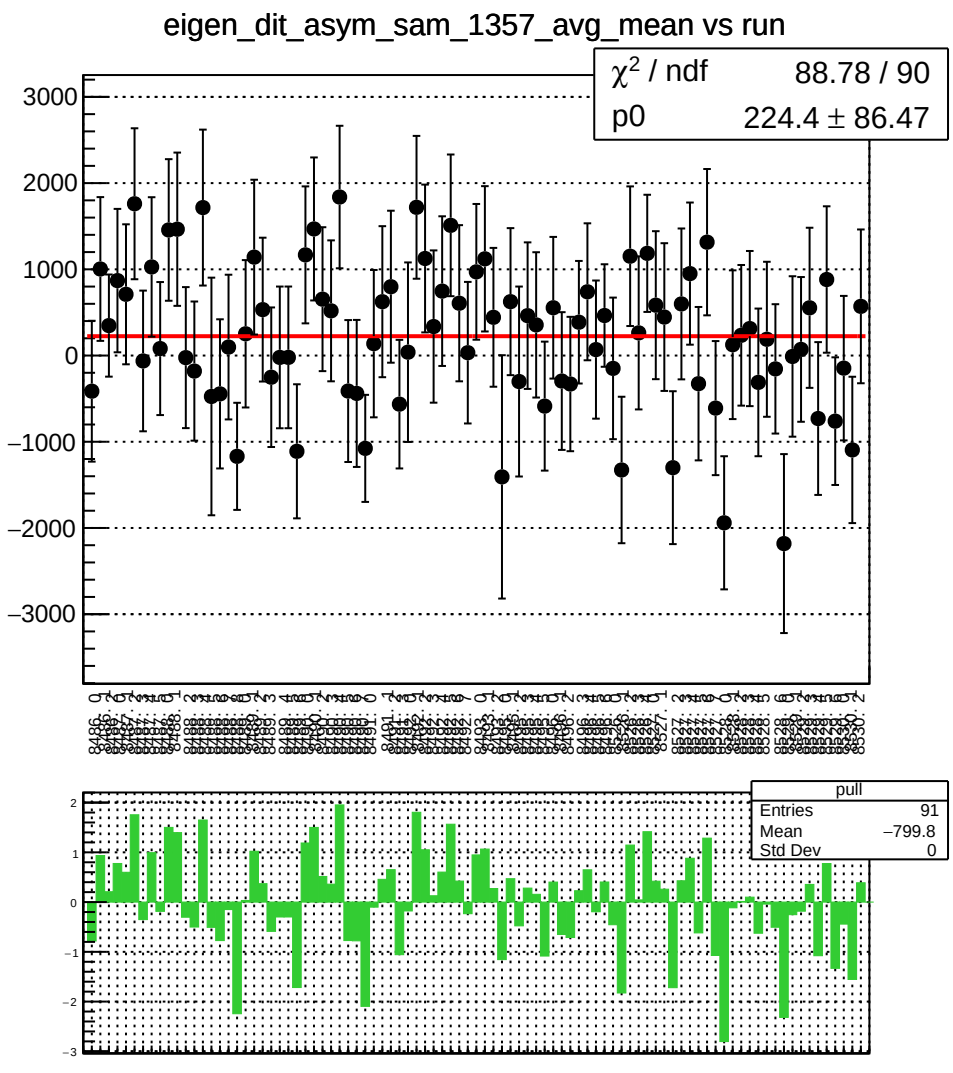

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 88.78 / 90
p0 224.4 ± 86.47
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 91
Mean −799.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean 0.007439
Std Dev 0.9877
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

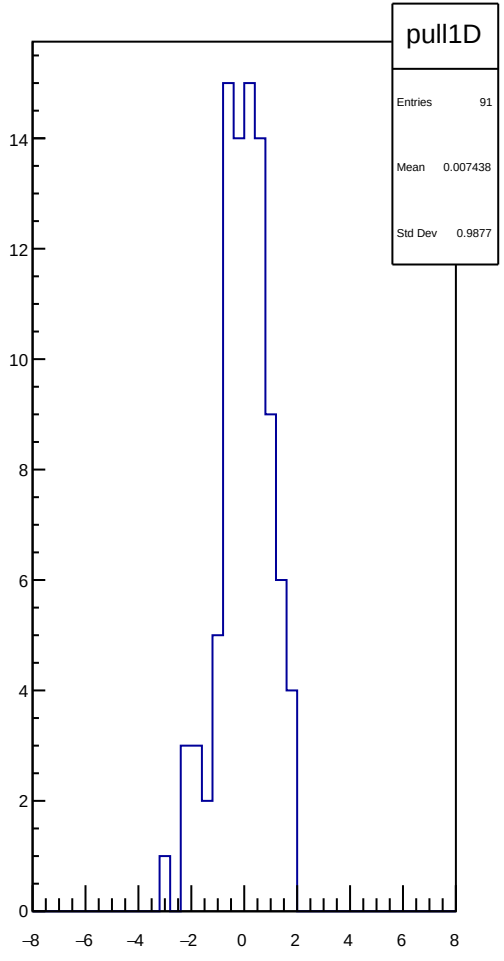

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 1.24e+04 / 90
p0 80.58 ± 0.06114
140
130
120
110
100
90
80
70

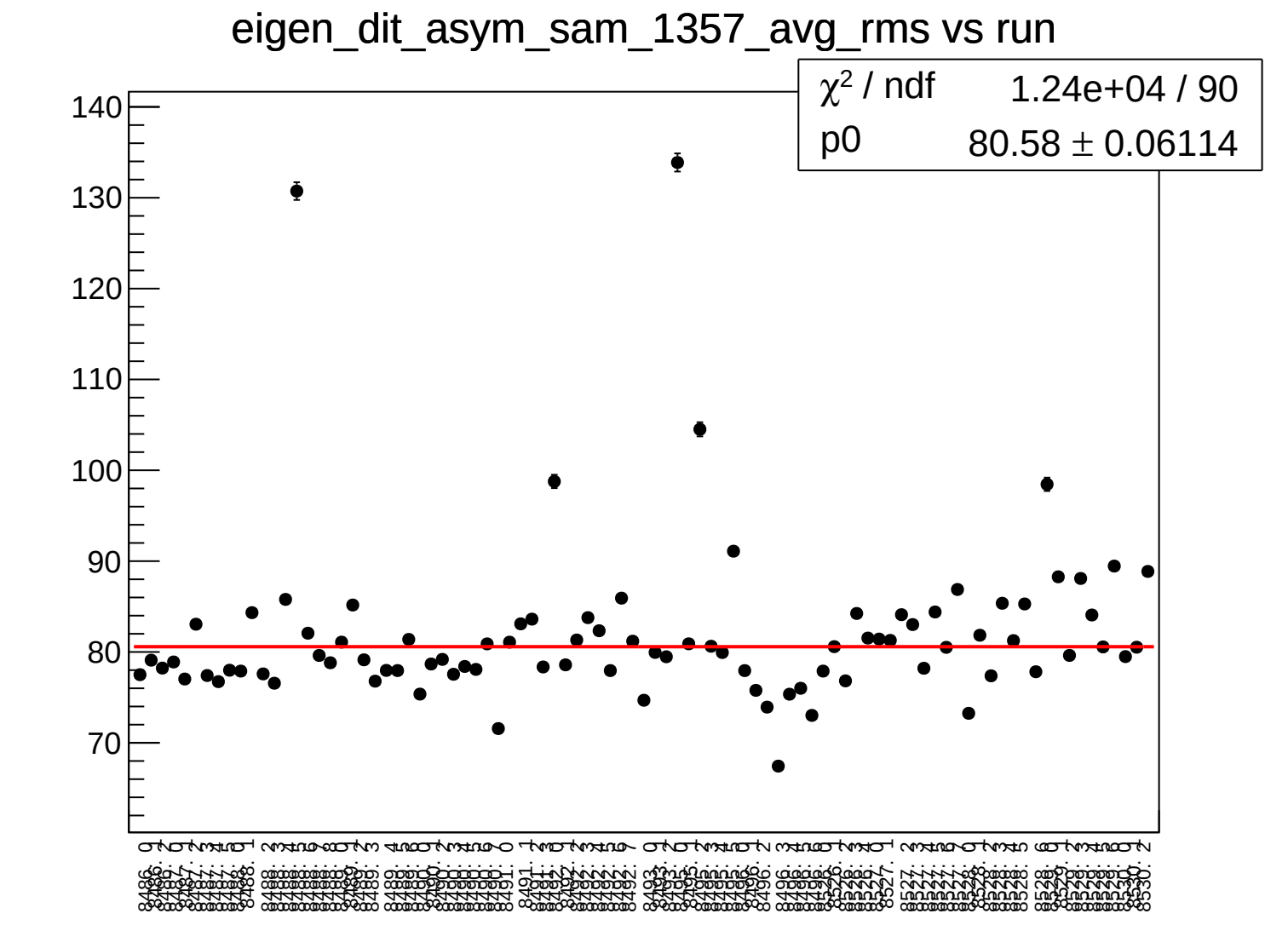

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 76.48 / 90
p0 −1788 ± 771.1
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 137.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

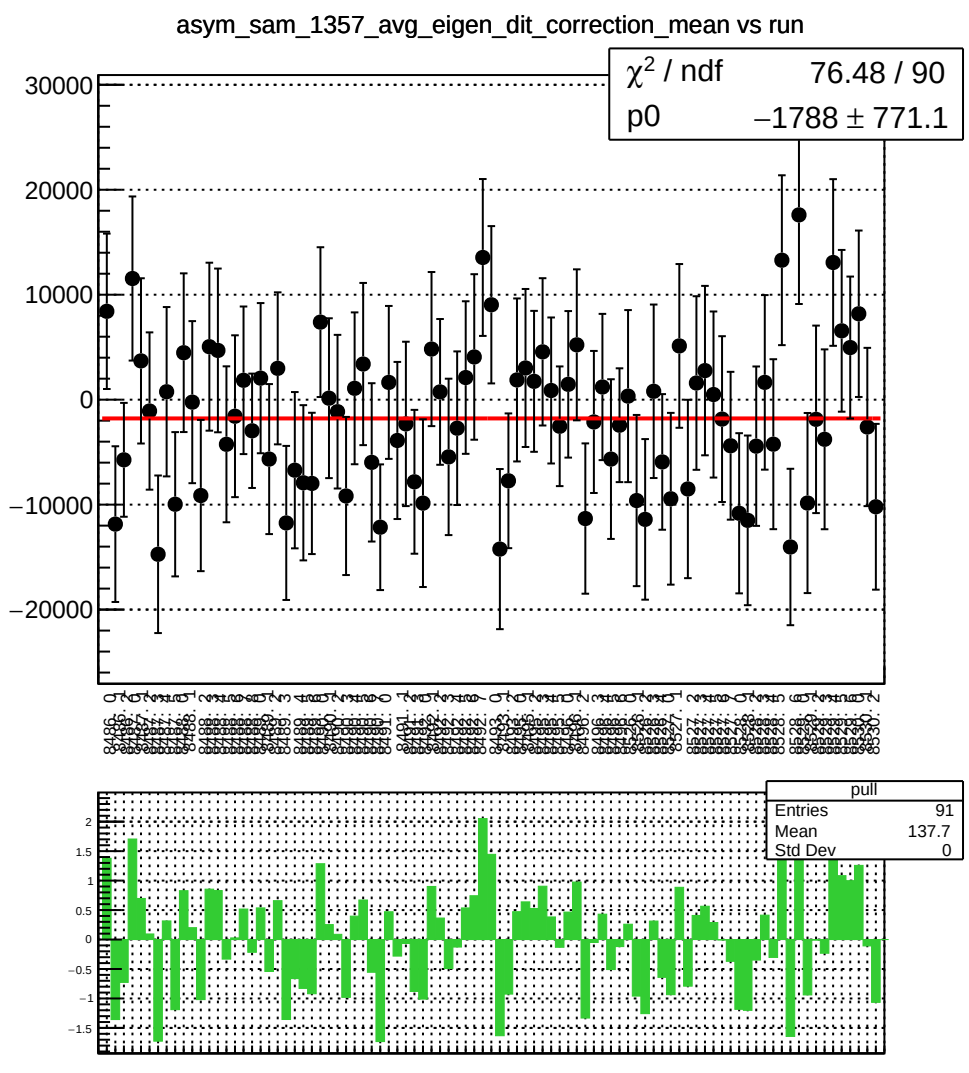

pull1D
Entries 91
Mean 0.01586
Std Dev 0.9166
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

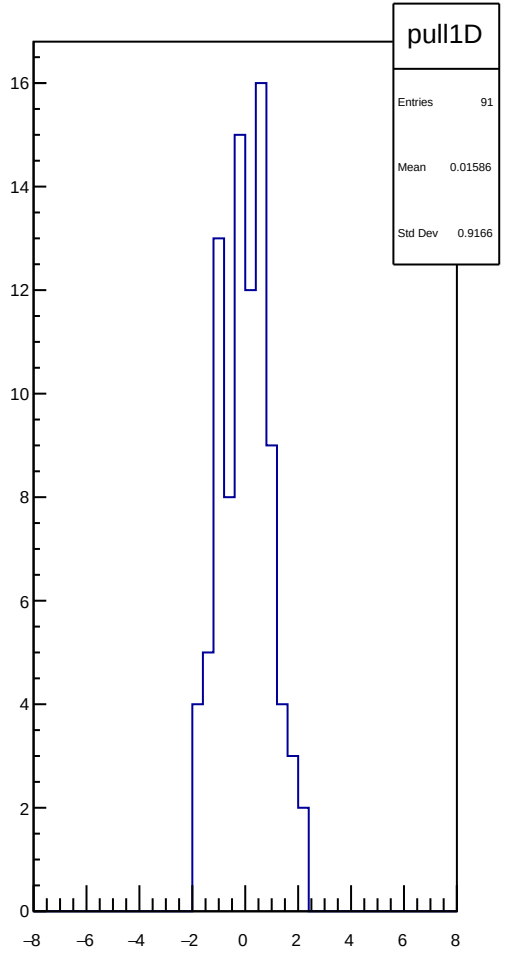

asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 6466 / 90
p0 719.8 ± 0.5452
850
800
750
700
650

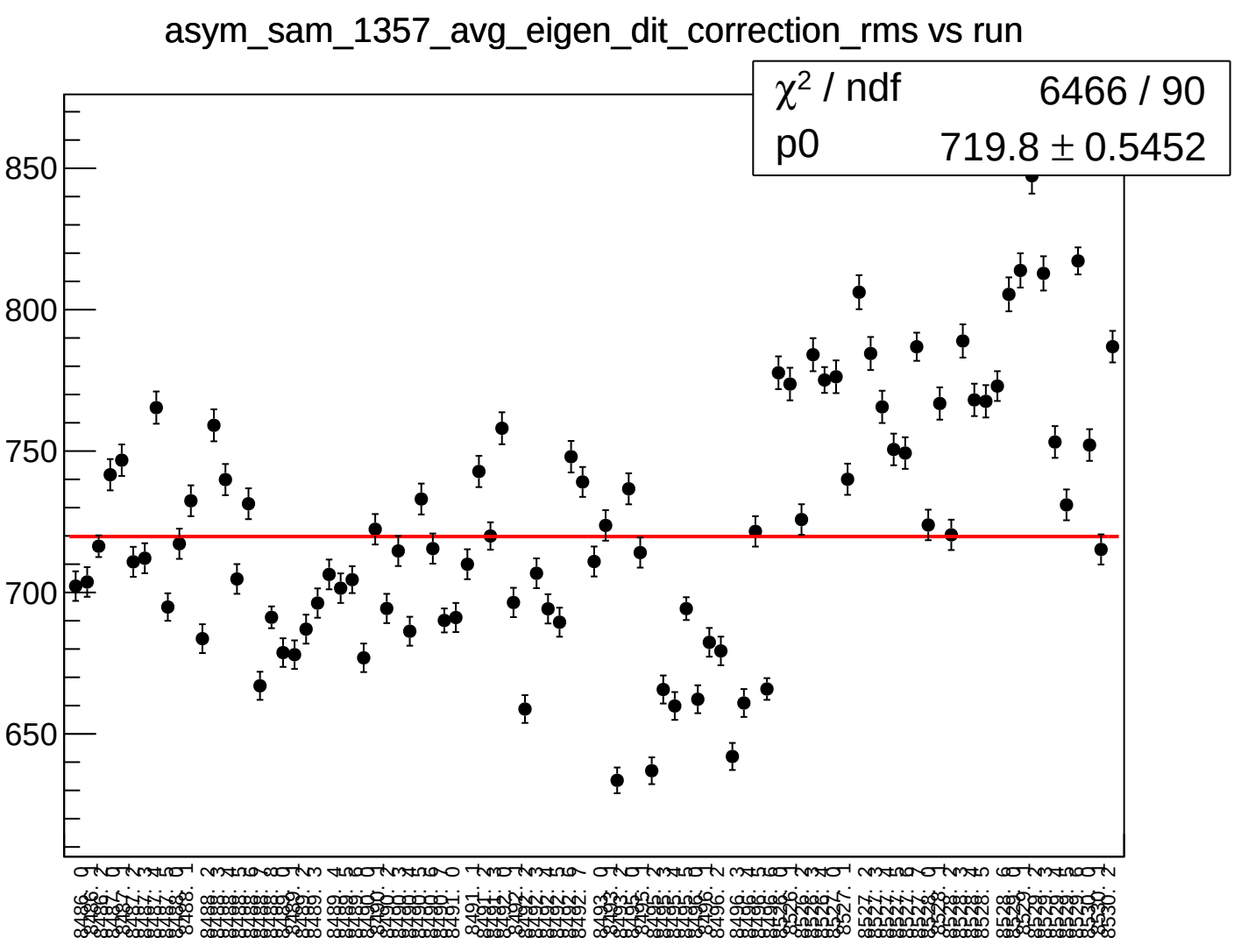

eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 88.78 / 90
p0 224.4 ± 86.47
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 91
Mean −799.8
Std Dev 0
2
1
0
−1
−2
−3

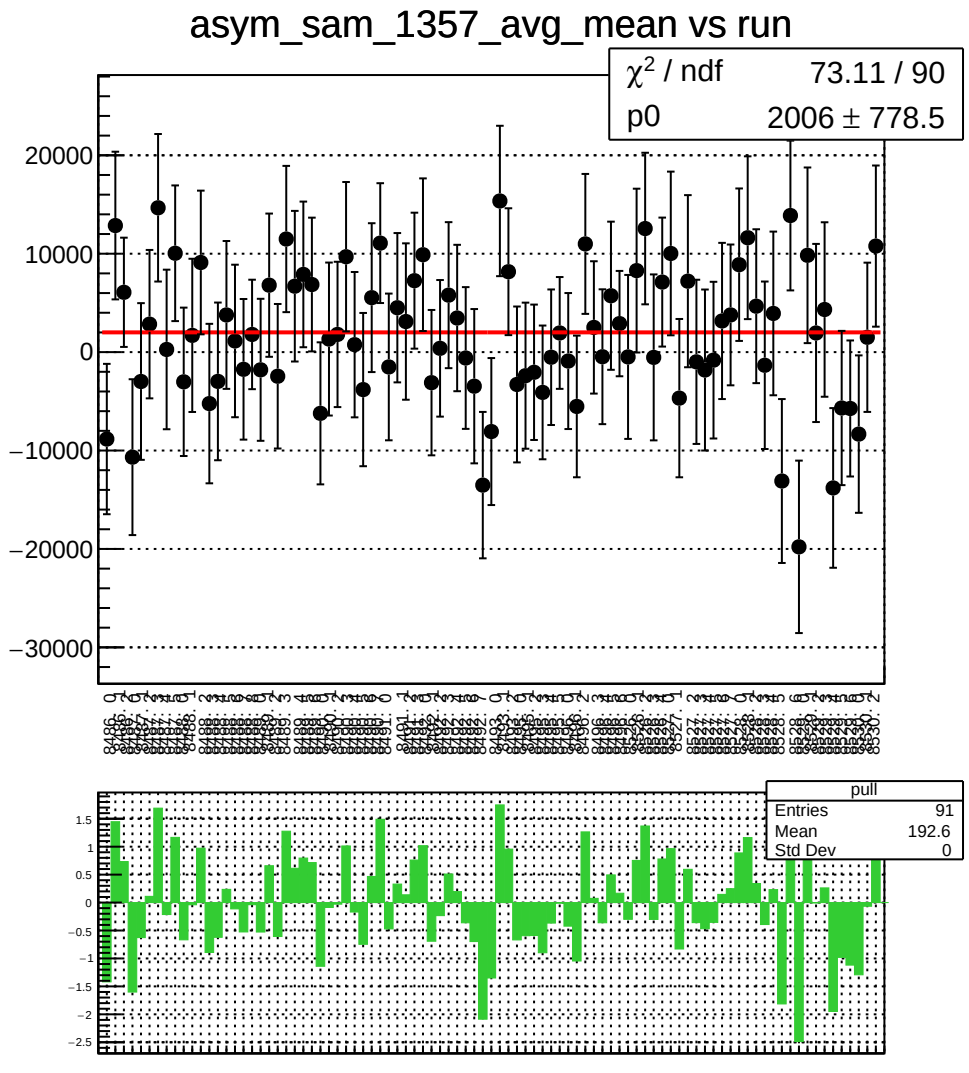

pull1D
Entries 91
Mean 0.007438
Std Dev 0.9877
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

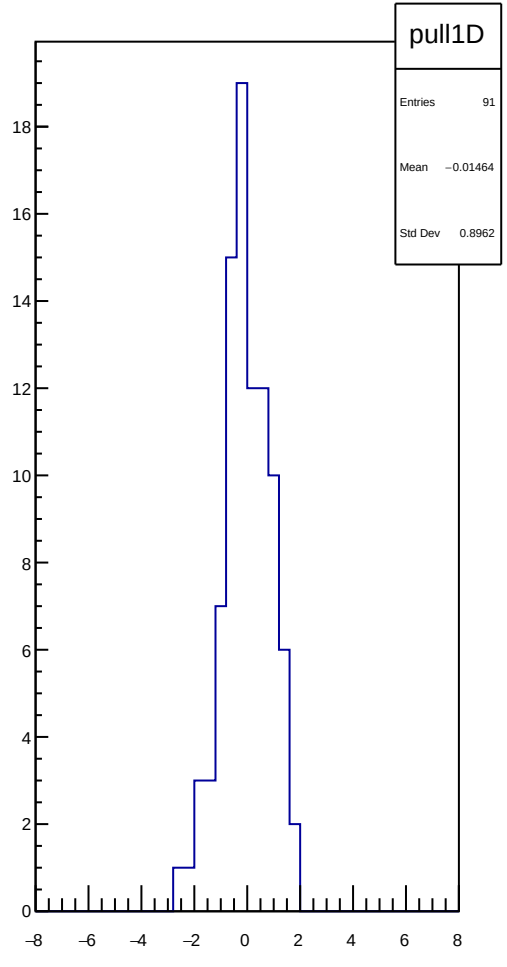

eigen_dit_asym_sam_1357_avg_rms vs run
χ^2 / ndf 1.24e+04 / 90
p0 80.58 ± 0.06114
140
130
120
110
100
90
80
70

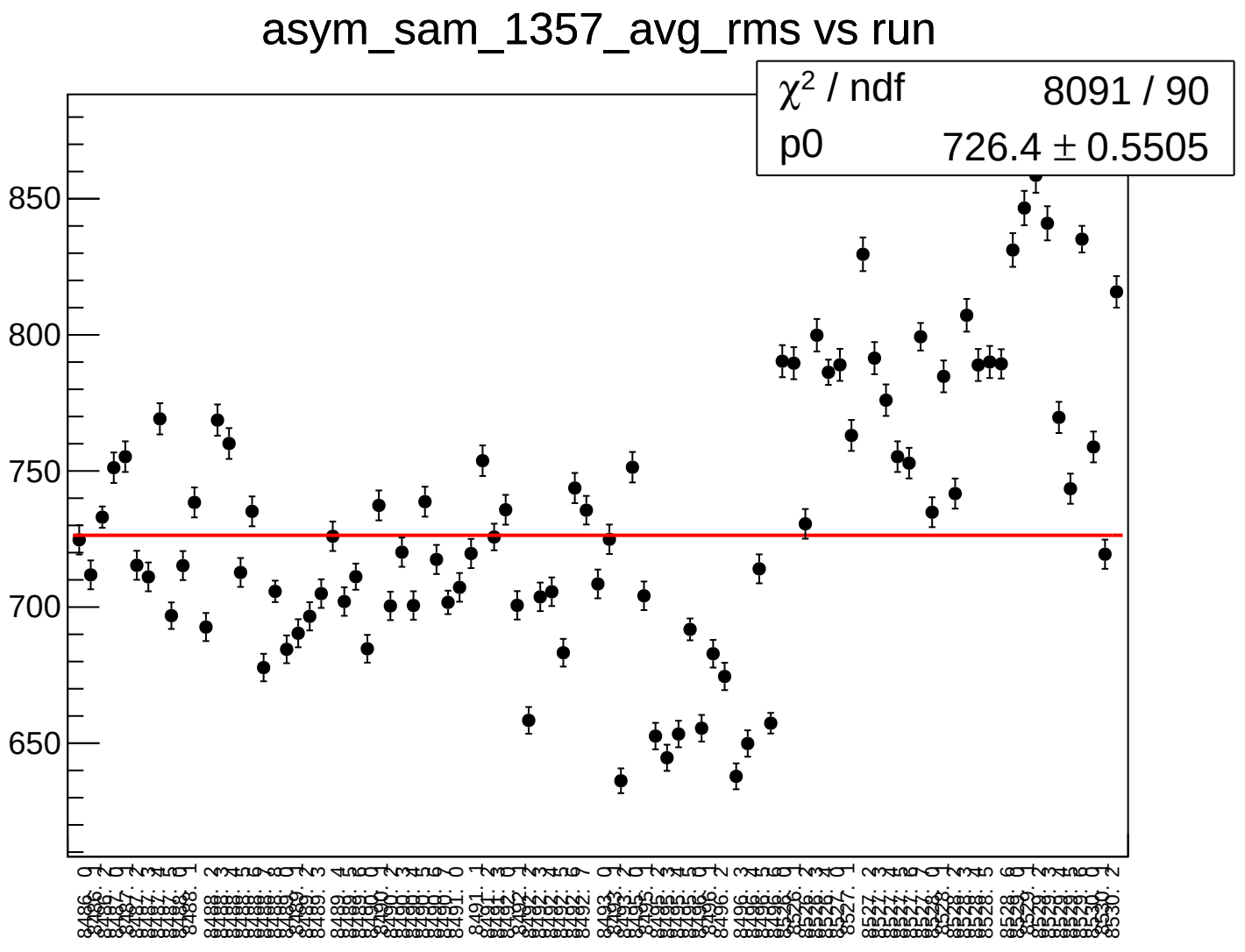

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 76.48 / 90
p0 −1788 ± 771.1
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 137.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

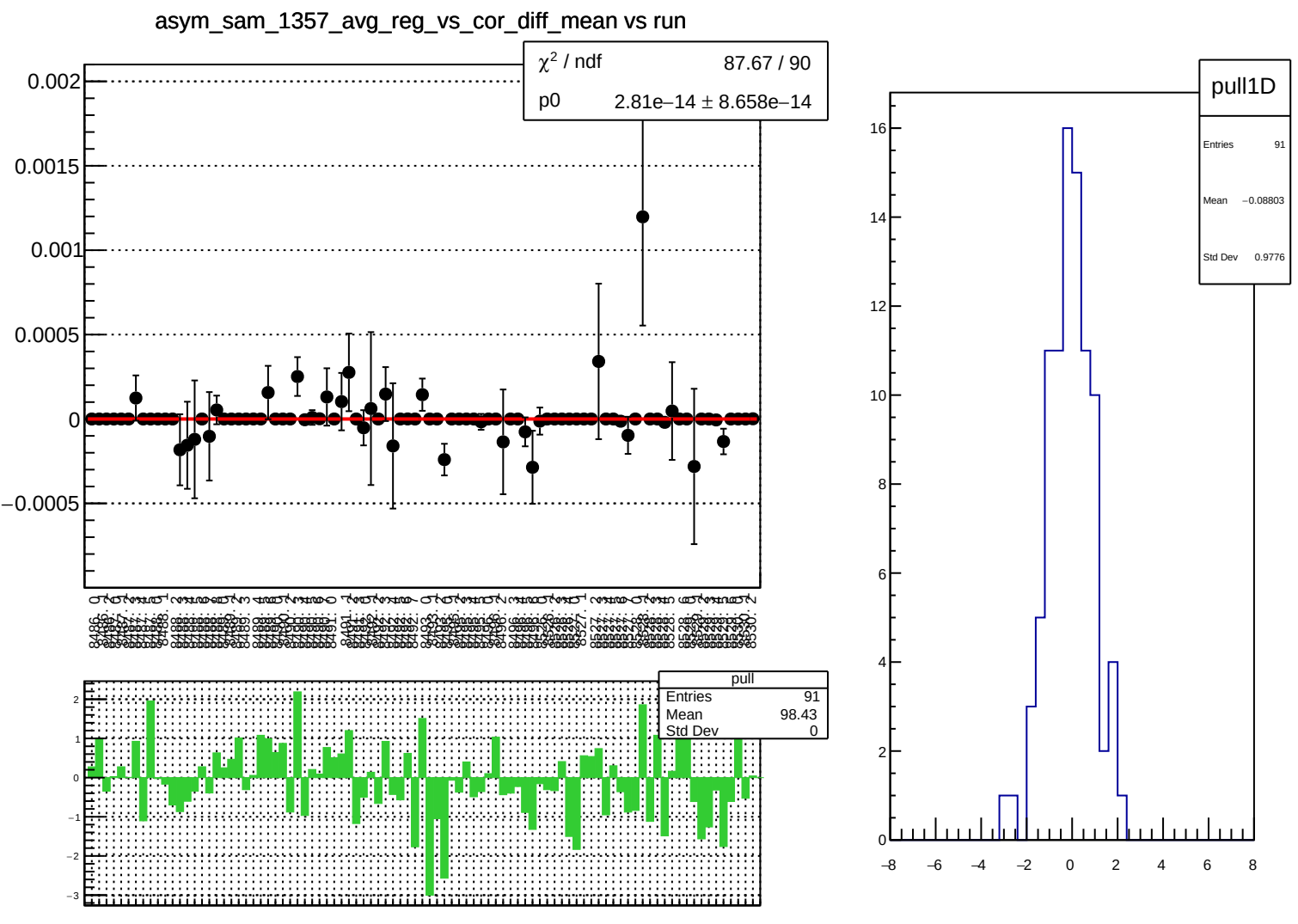

pull1D
Entries 91
Mean 0.01586
Std Dev 0.9166
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

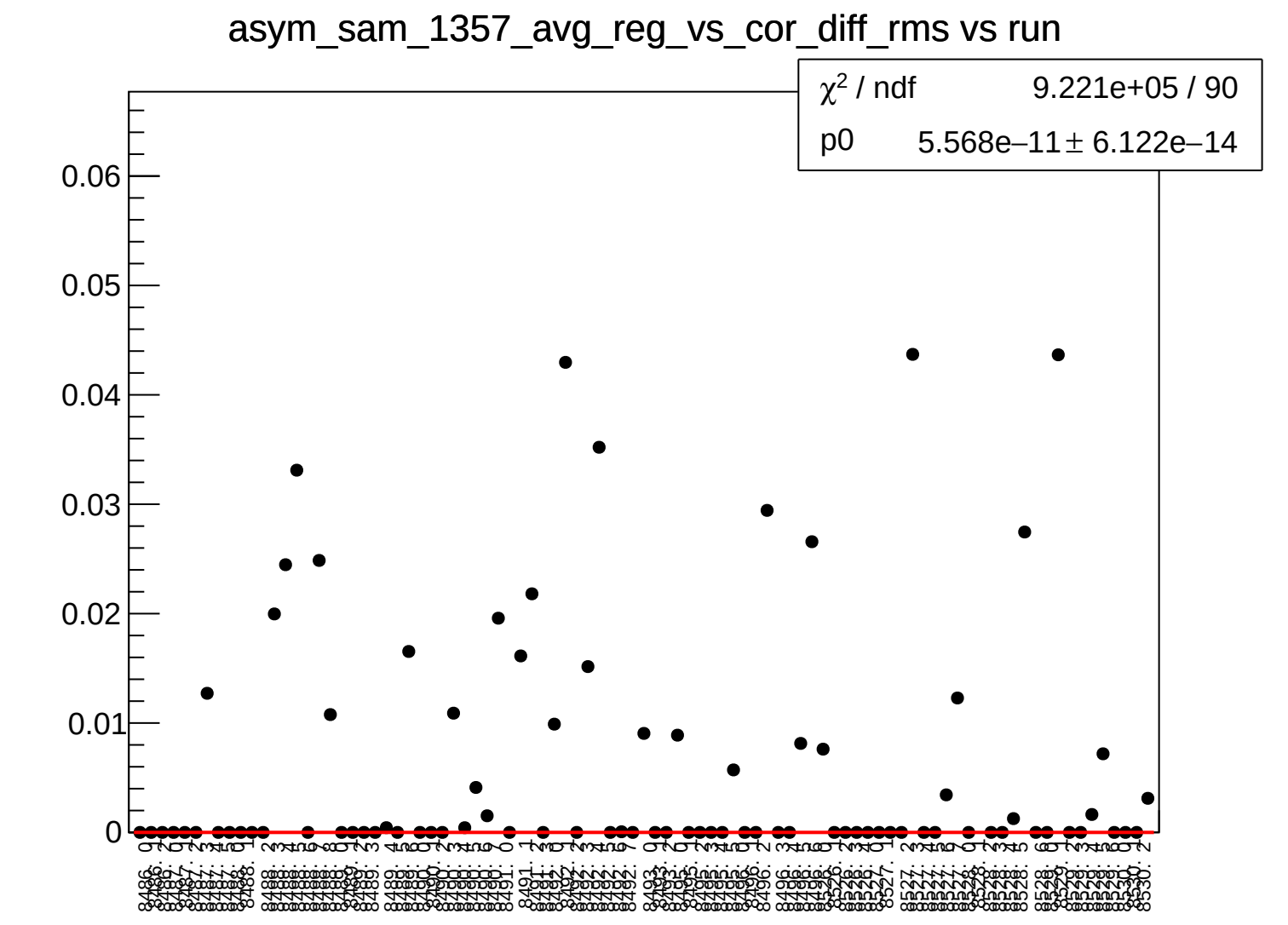

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ^2 / ndf 6466 / 90
p0 719.8 ± 0.5452
850
800
750
700
650

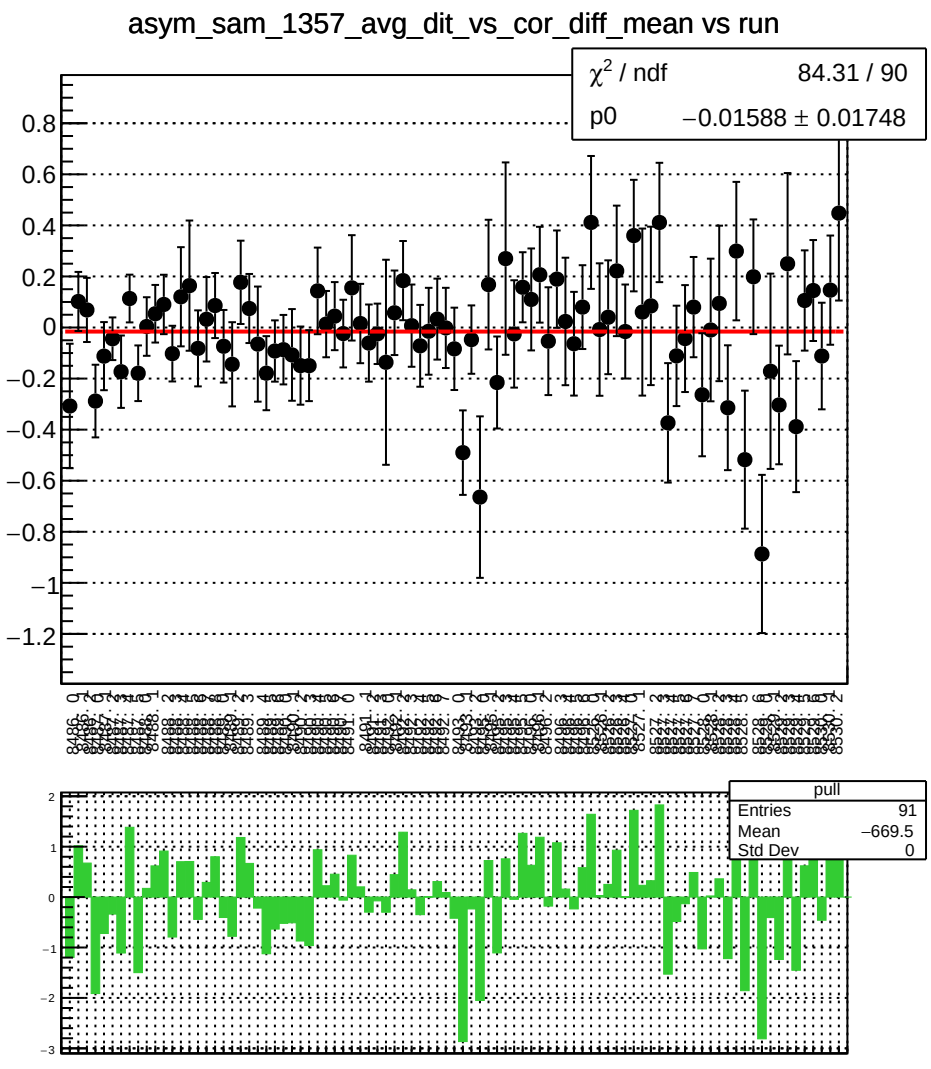

asym_sam_1357_avg_mean vs run
χ² / ndf 73.11 / 90
p0 2006 ± 778.5
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 192.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

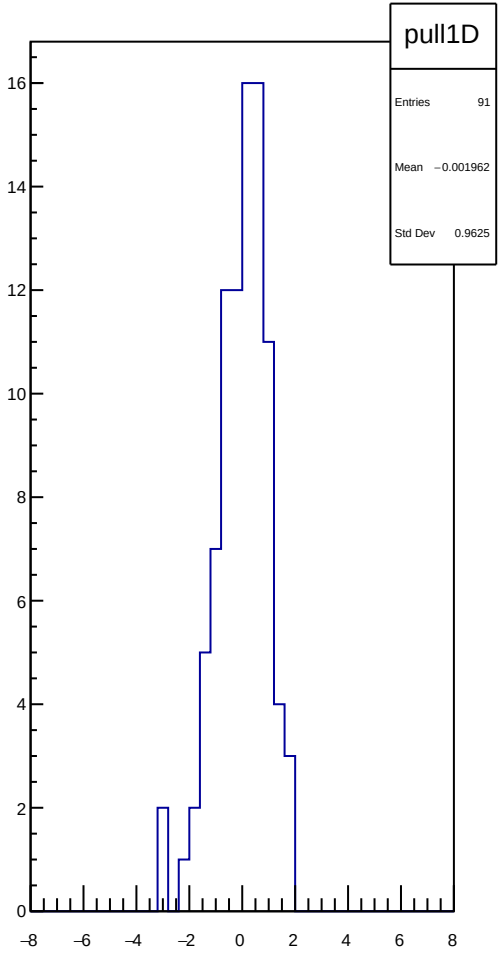

pull1D
Entries 91
Mean −0.01464
Std Dev 0.8962
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

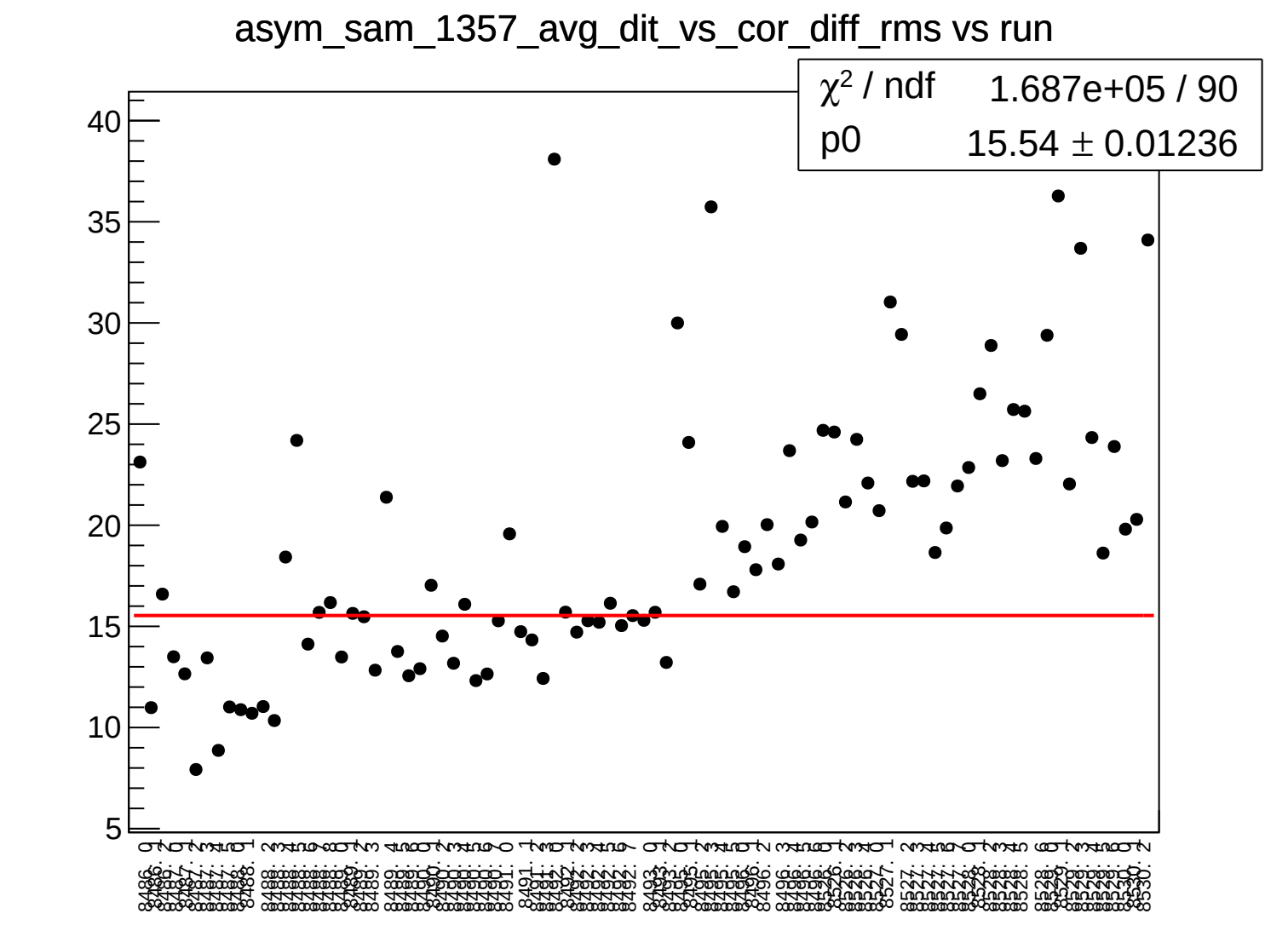

asym_sam_1357_avg_rms vs run
χ² / ndf 8091 / 90
p0 726.4 ± 0.5505
850
800
750
700
650

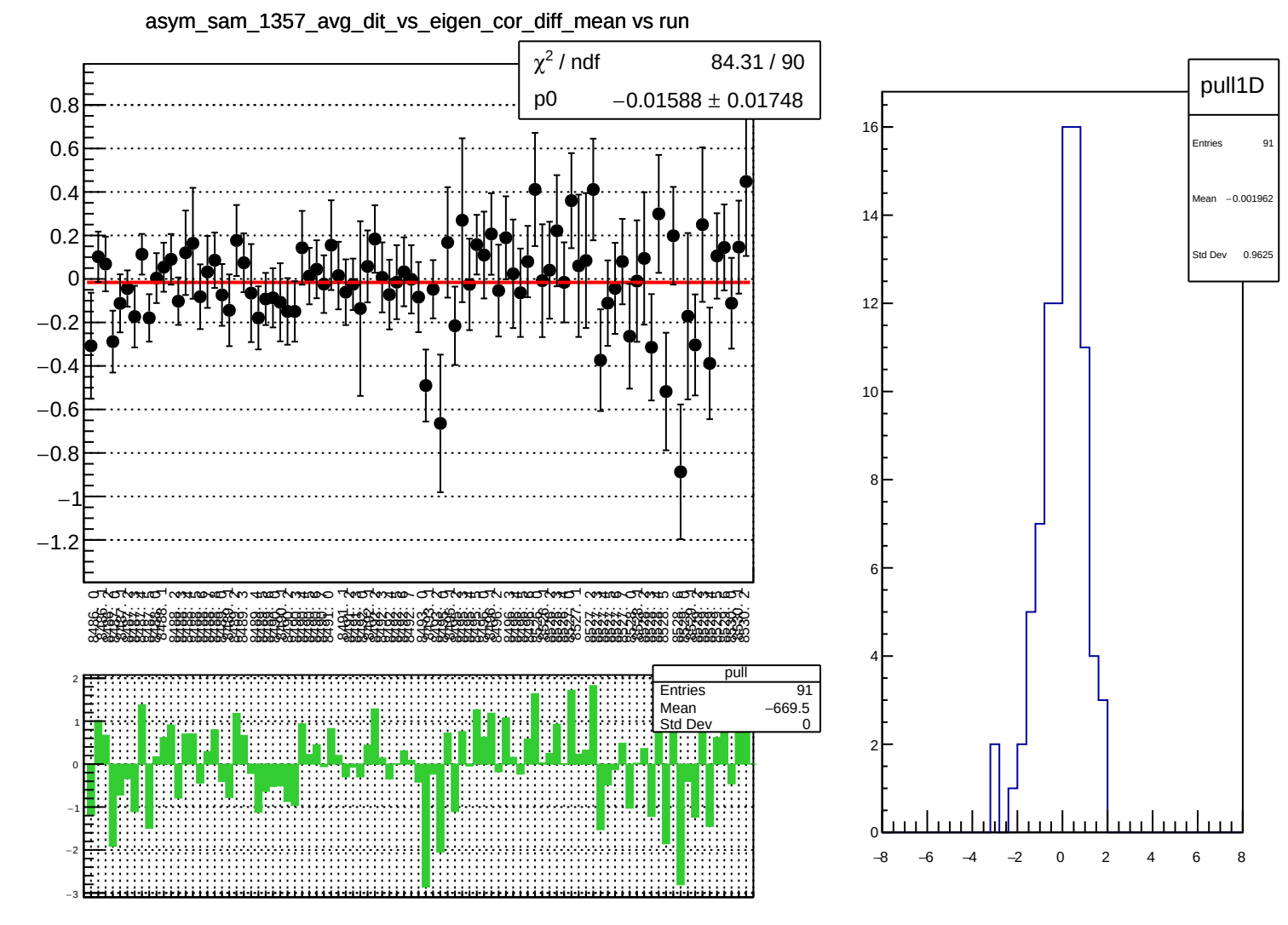

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 87.67 / 90
p0 2.81e−14 ± 8.658e−14
0.002
0.0015
0.001
0.0005
0
−0.0005
pull
Entries 91
Mean 98.43
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean −0.08803
Std Dev 0.9776
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

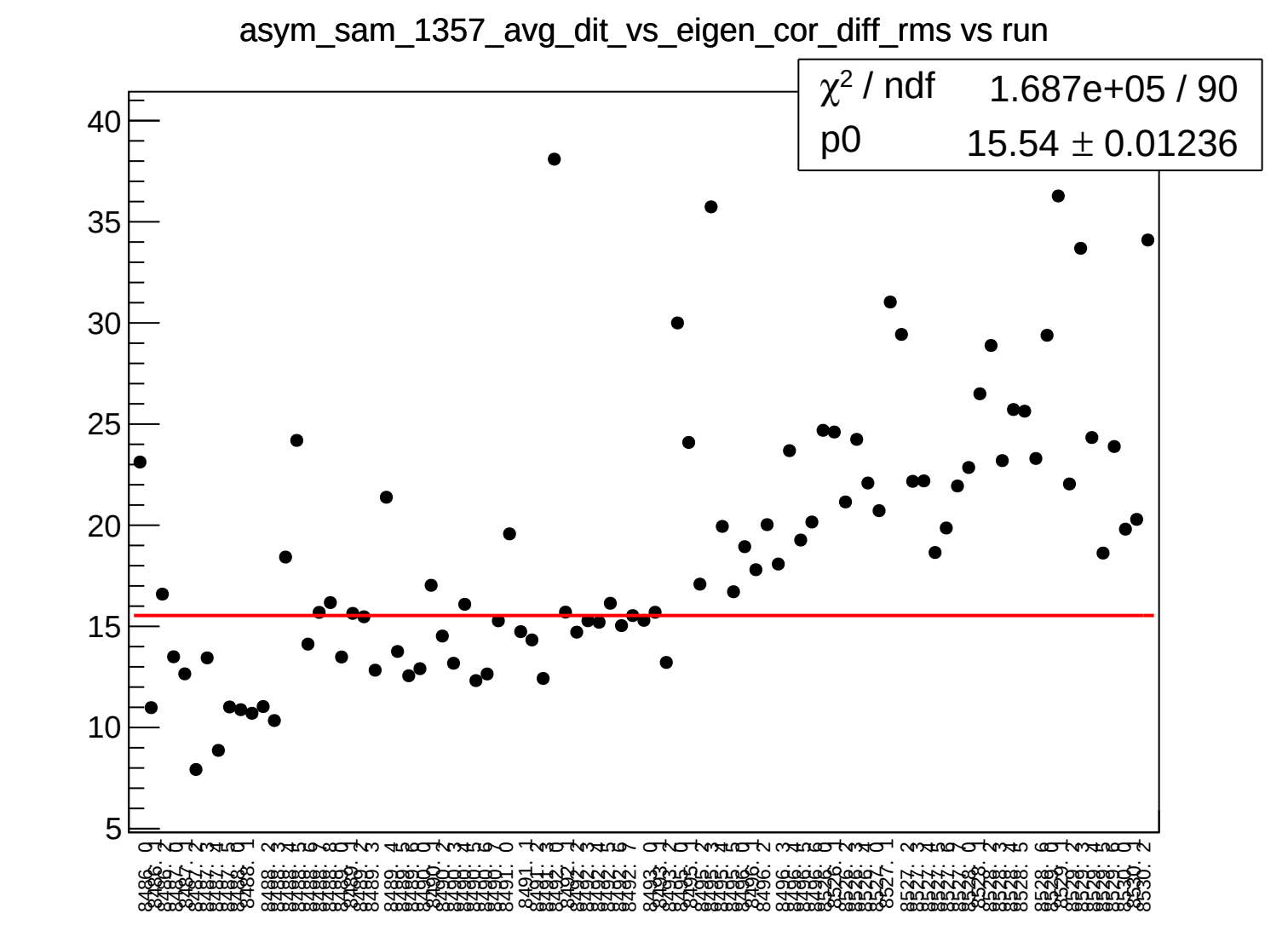

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.221e+05 / 90
p0 5.568e−11 ± 6.122e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

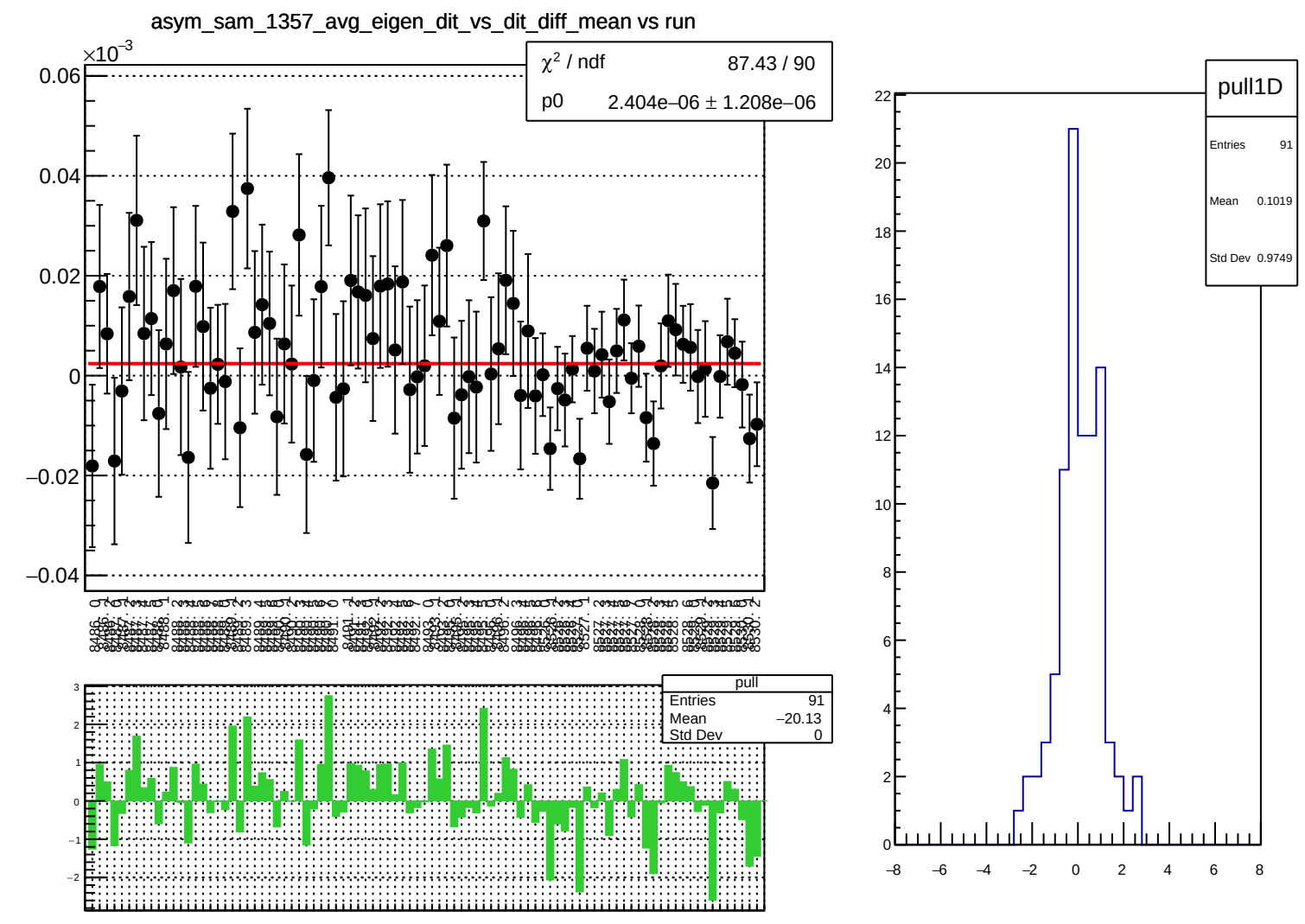

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 84.31 / 90
p0 −0.01588 ± 0.01748
pull
Entries 91
Mean −669.5
Std Dev 0

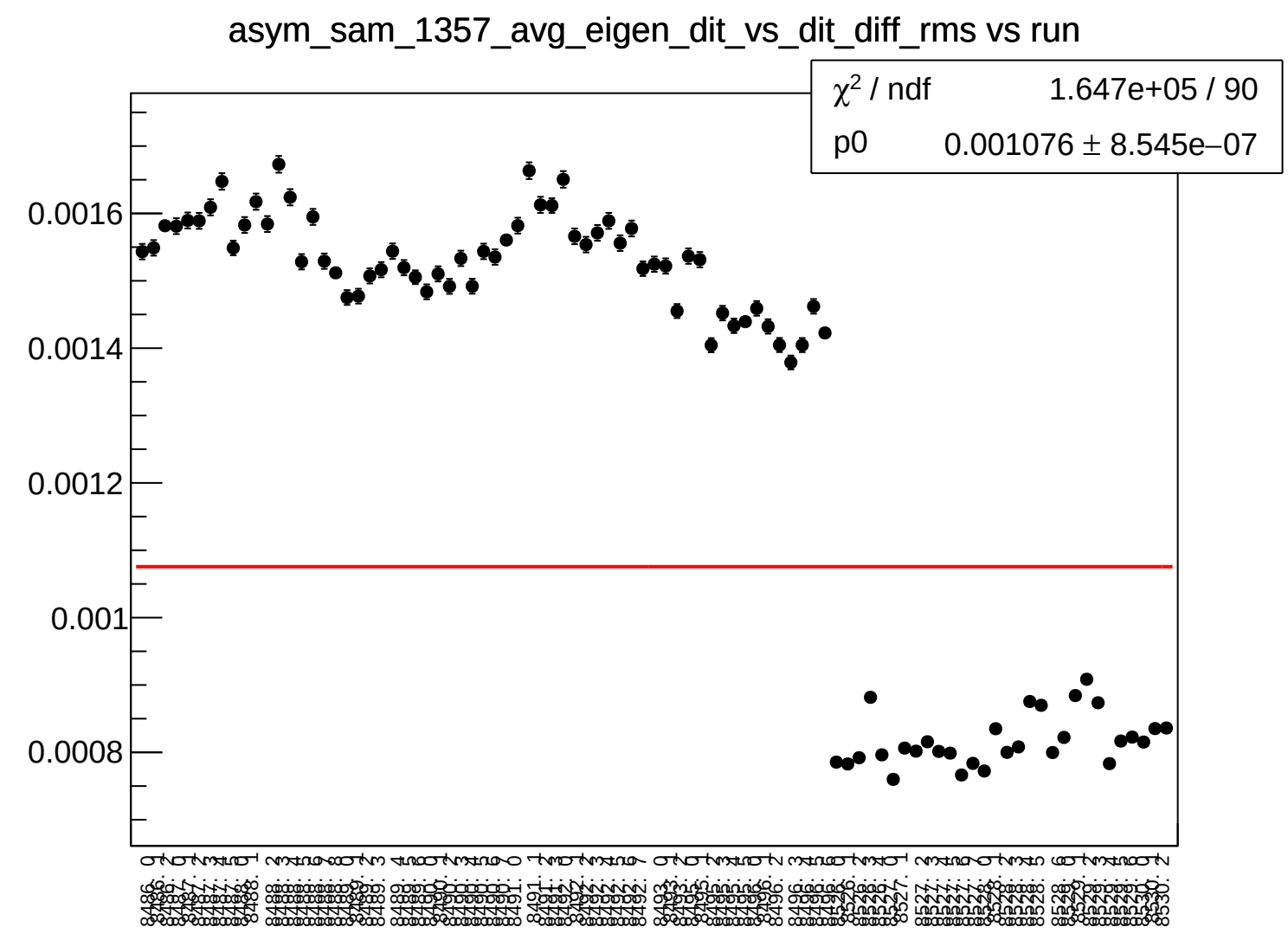

pull1D
Entries 91
Mean −0.001962
Std Dev 0.9625

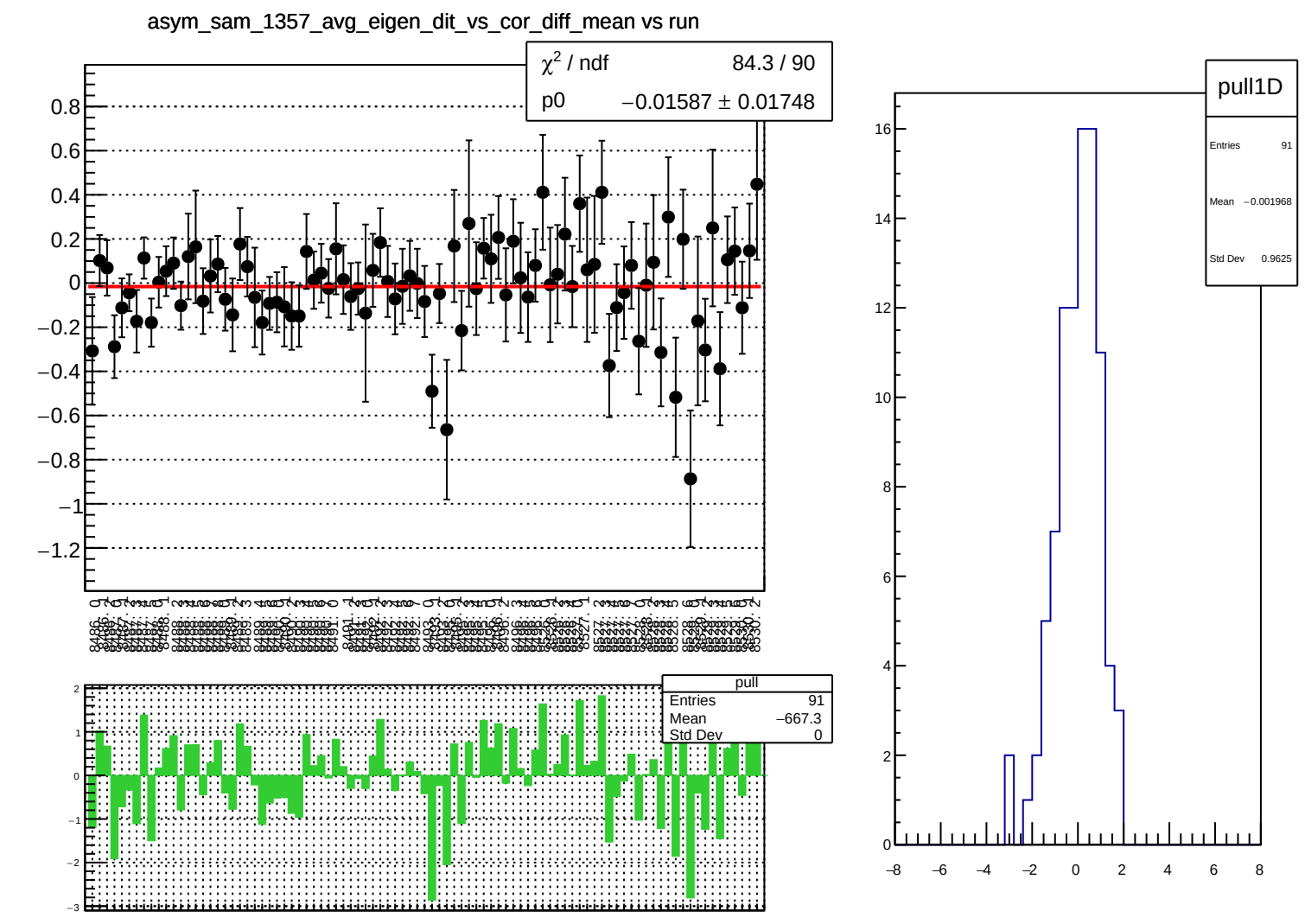

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.687e+05 / 90
p0 15.54 ± 0.01236
40
35
30
25
20
15
10
5

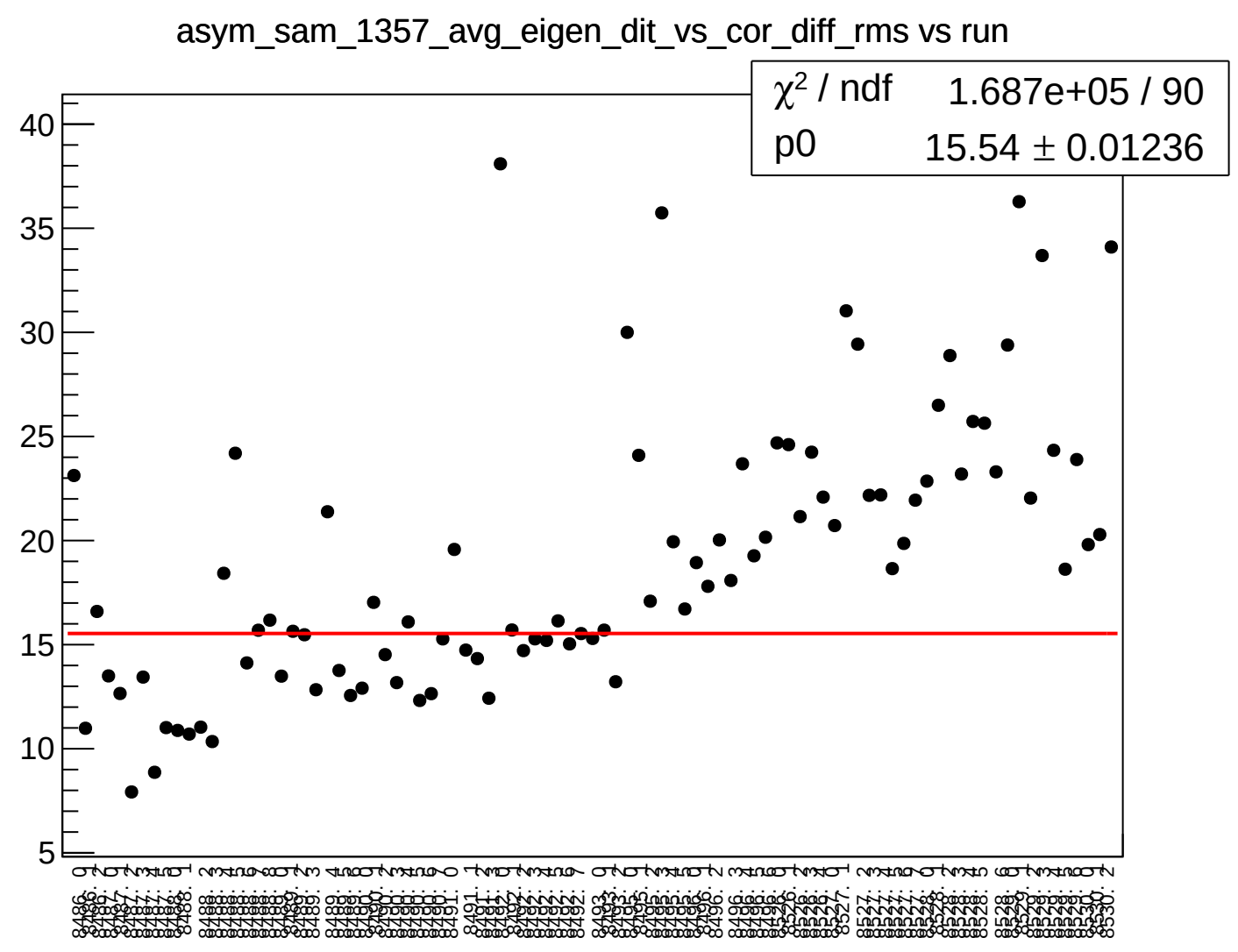

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.31 / 90
p0 −0.01588 ± 0.01748
pull
Entries 91
Mean −669.5
Std Dev 0
pull1D
Entries 91
Mean −0.001962
Std Dev 0.9625

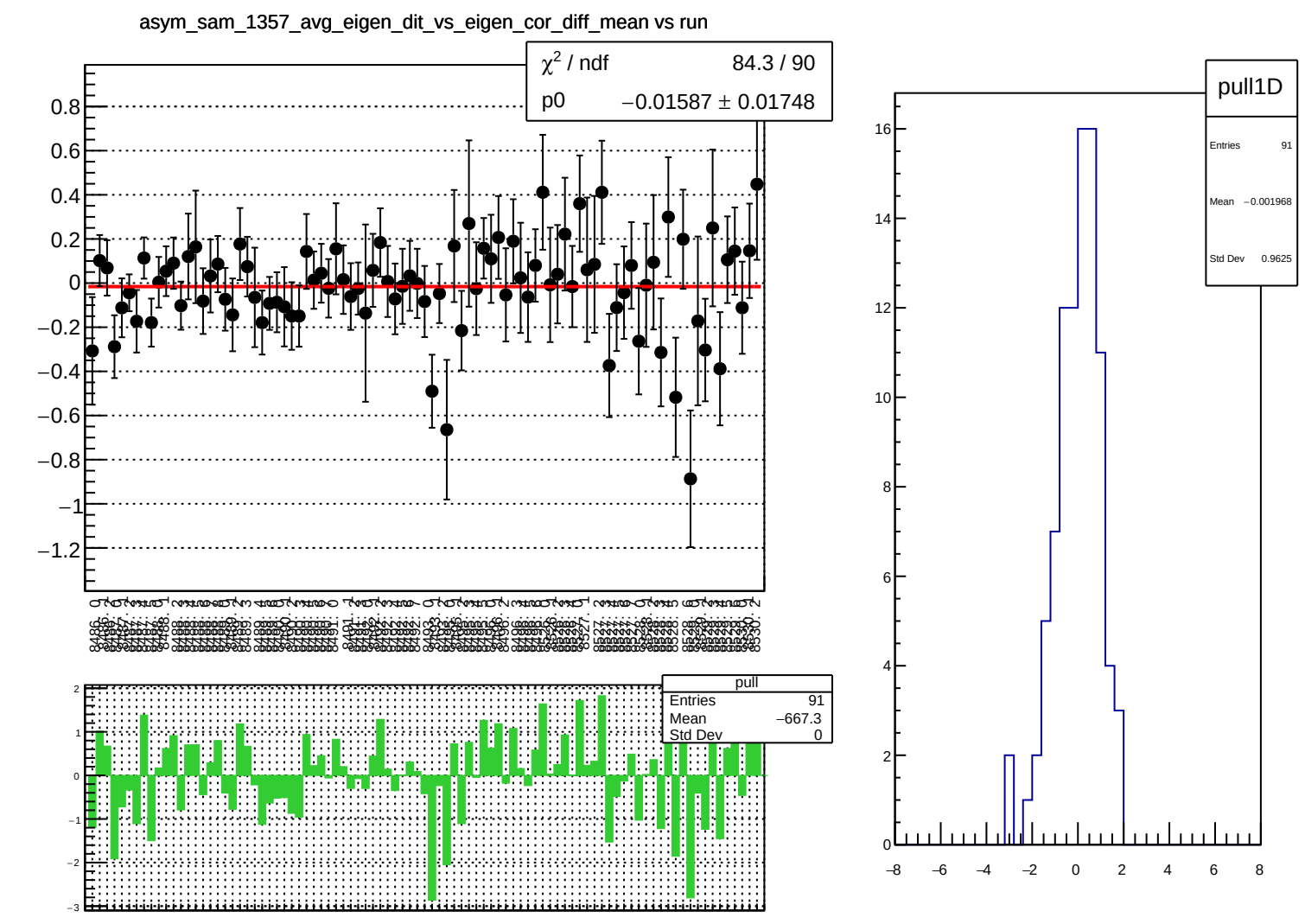

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.687e+05 / 90
p0 15.54 ± 0.01236
40
35
30
25
20
15
10
5

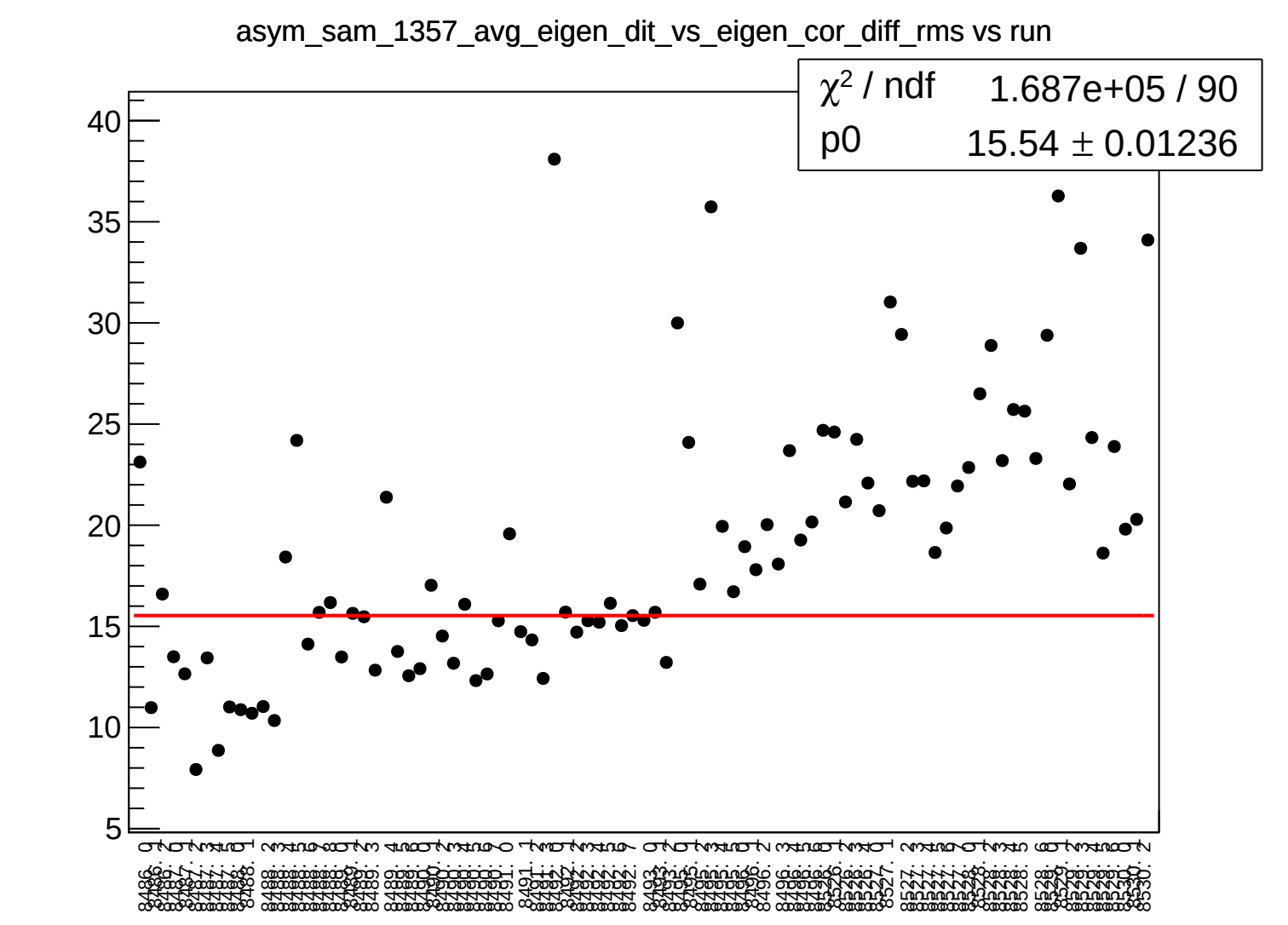

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.43 / 90
p0 2.404e−06 ± 1.208e−06
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 91
Mean −20.13
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.1019
Std Dev 0.9749
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

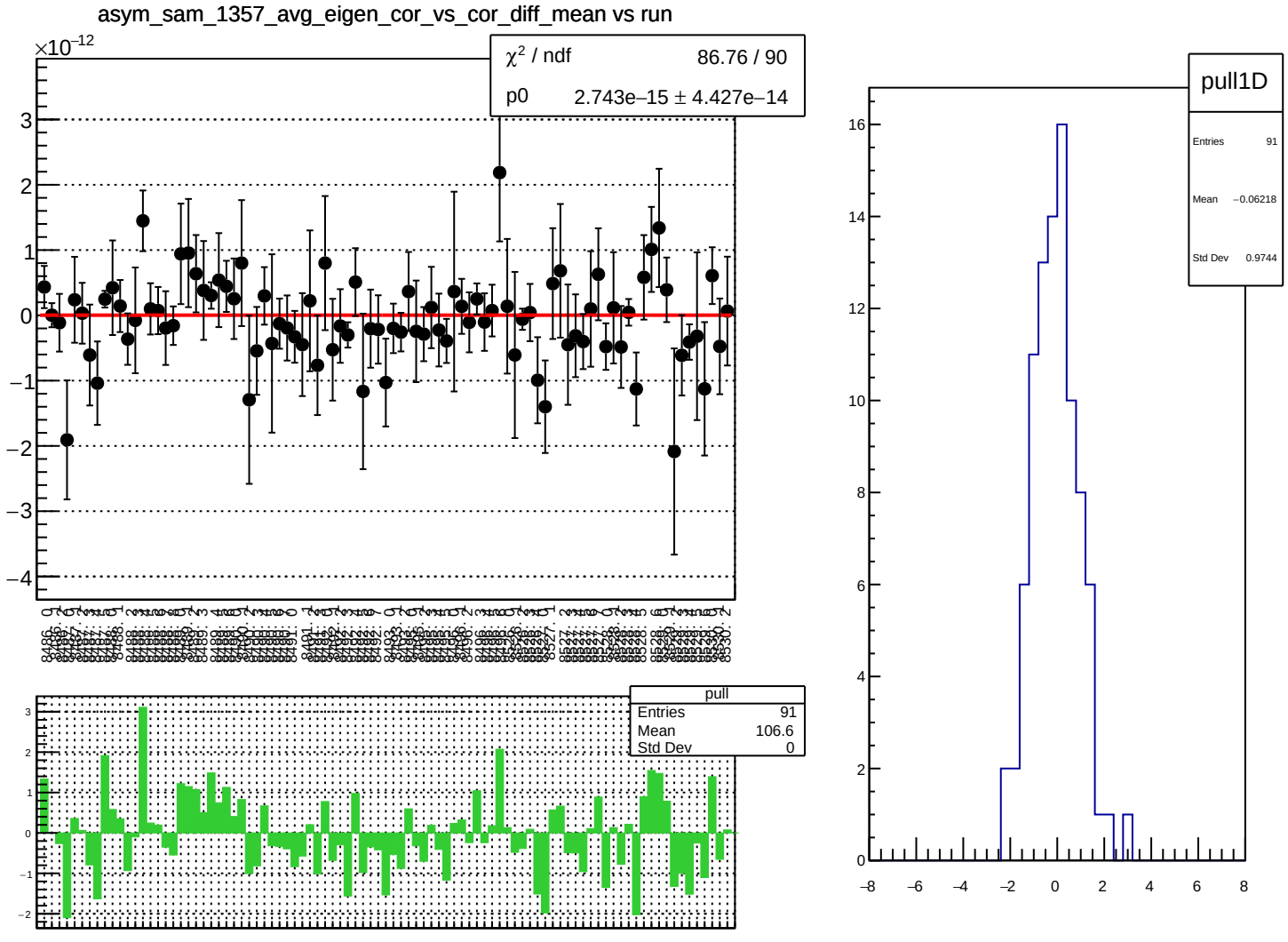

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.647e+05 / 90
p0 0.001076 ± 8.545e−07
0.0016
0.0014
0.0012
0.001
0.0008

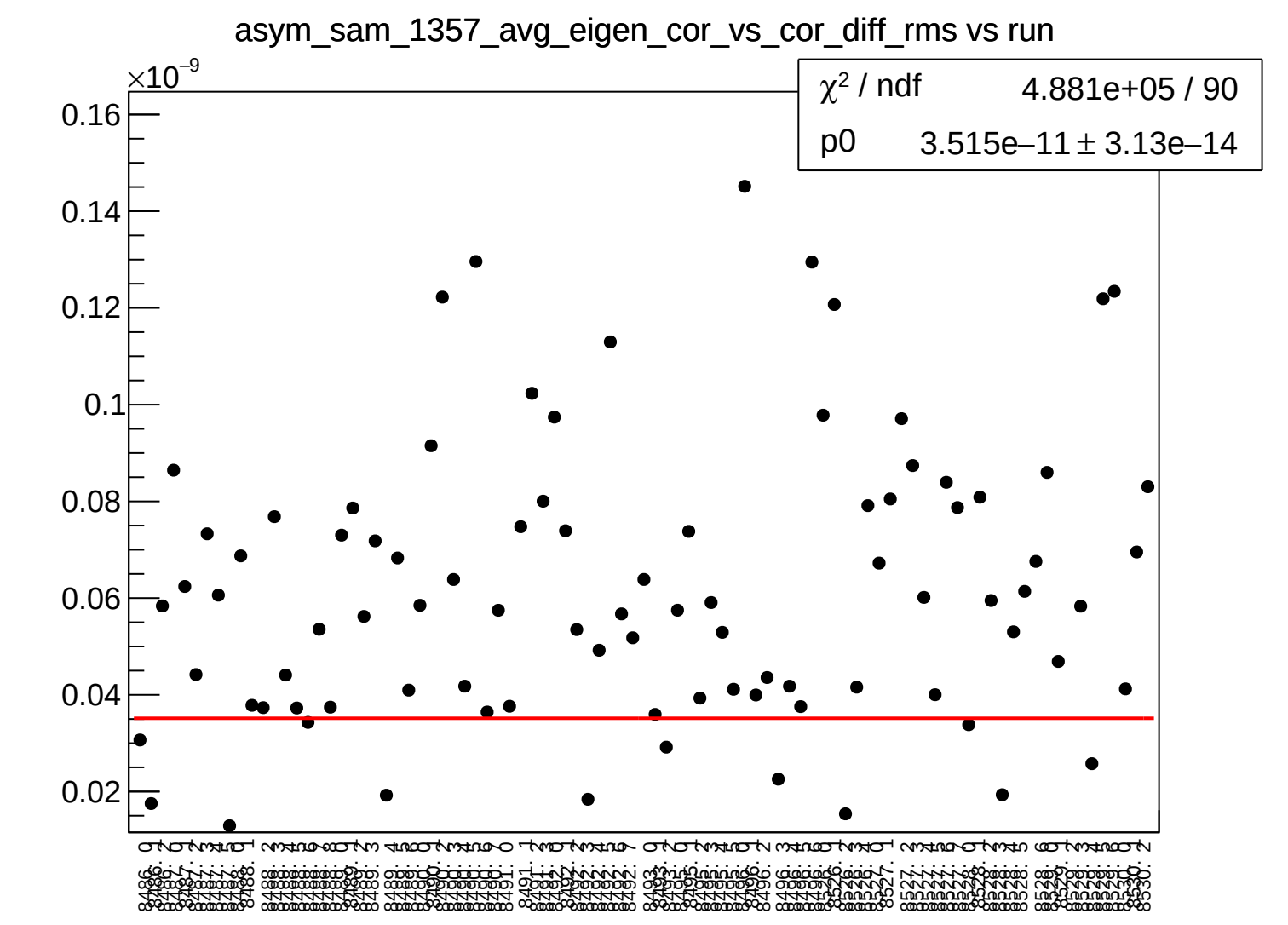

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.3 / 90
p0 −0.01587 ± 0.01748
pull
Entries 91
Mean −667.3
Std Dev 0
pull1D
Entries 91
Mean −0.001968
Std Dev 0.9625

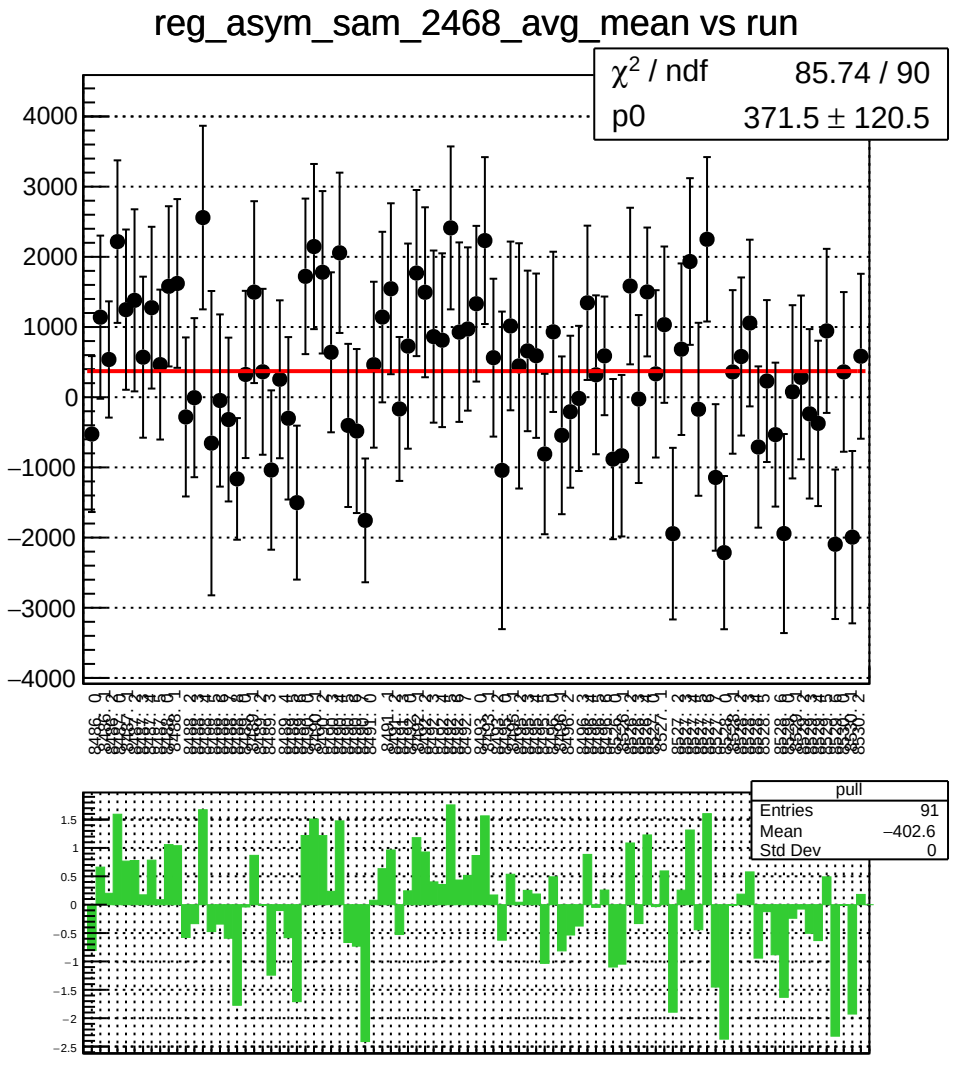

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.687e+05 / 90
p0 15.54 ± 0.01236
40
35
30
25
20
15
10
5

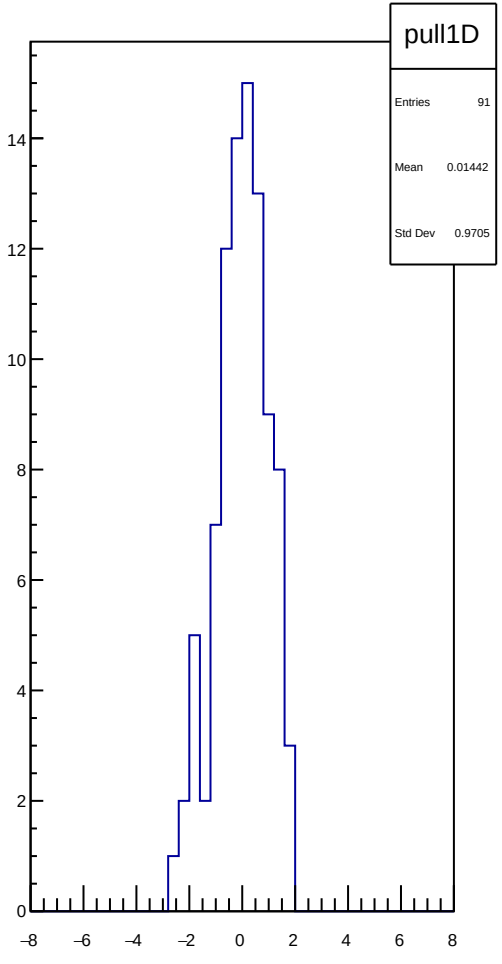

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.3 / 90
p0 −0.01587 ± 0.01748
pull
Entries 91
Mean −667.3
Std Dev 0
pull1D
Entries 91
Mean −0.001968
Std Dev 0.9625

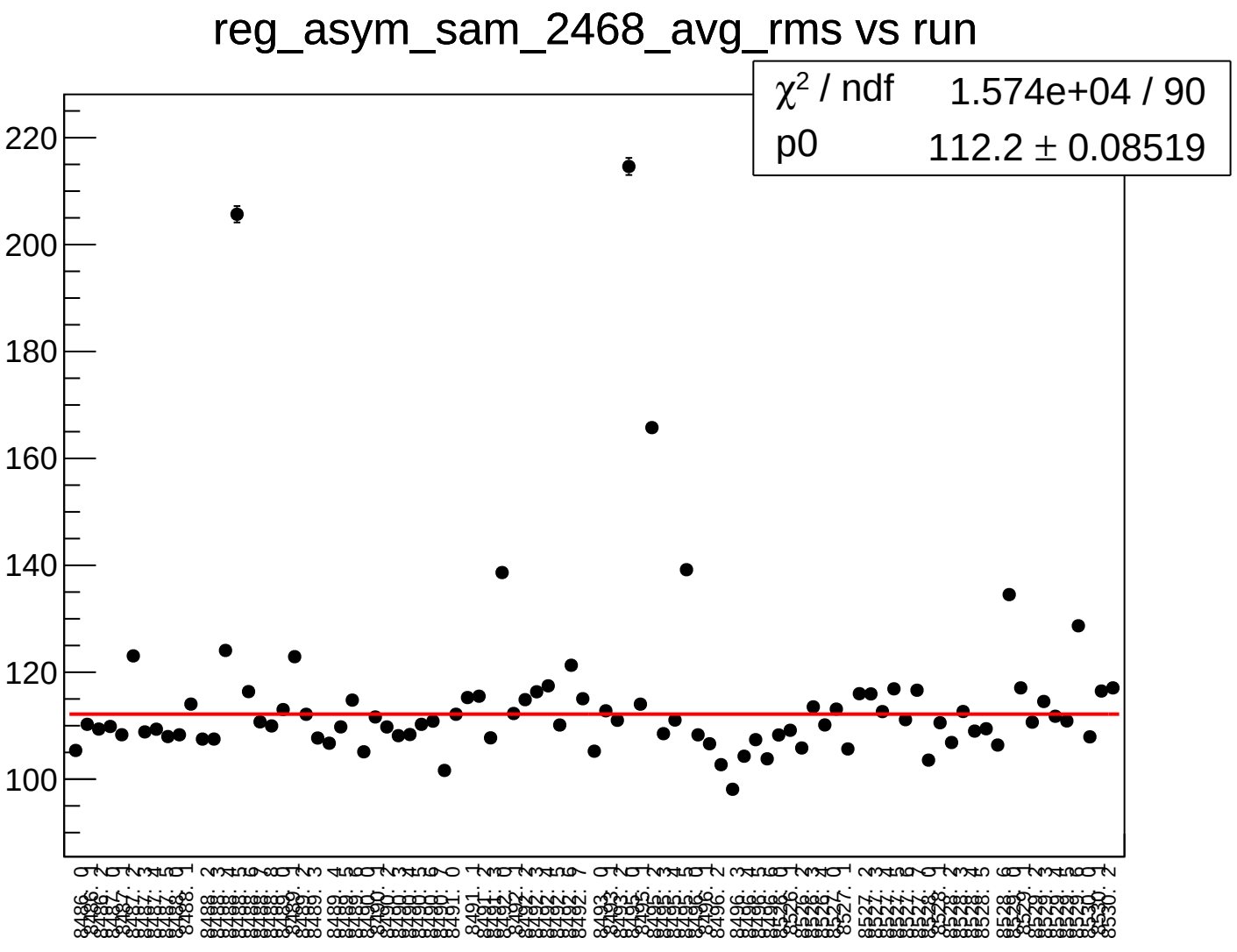

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.687e+05 / 90
p0 15.54 ± 0.01236
40
35
30
25
20
15
10
5

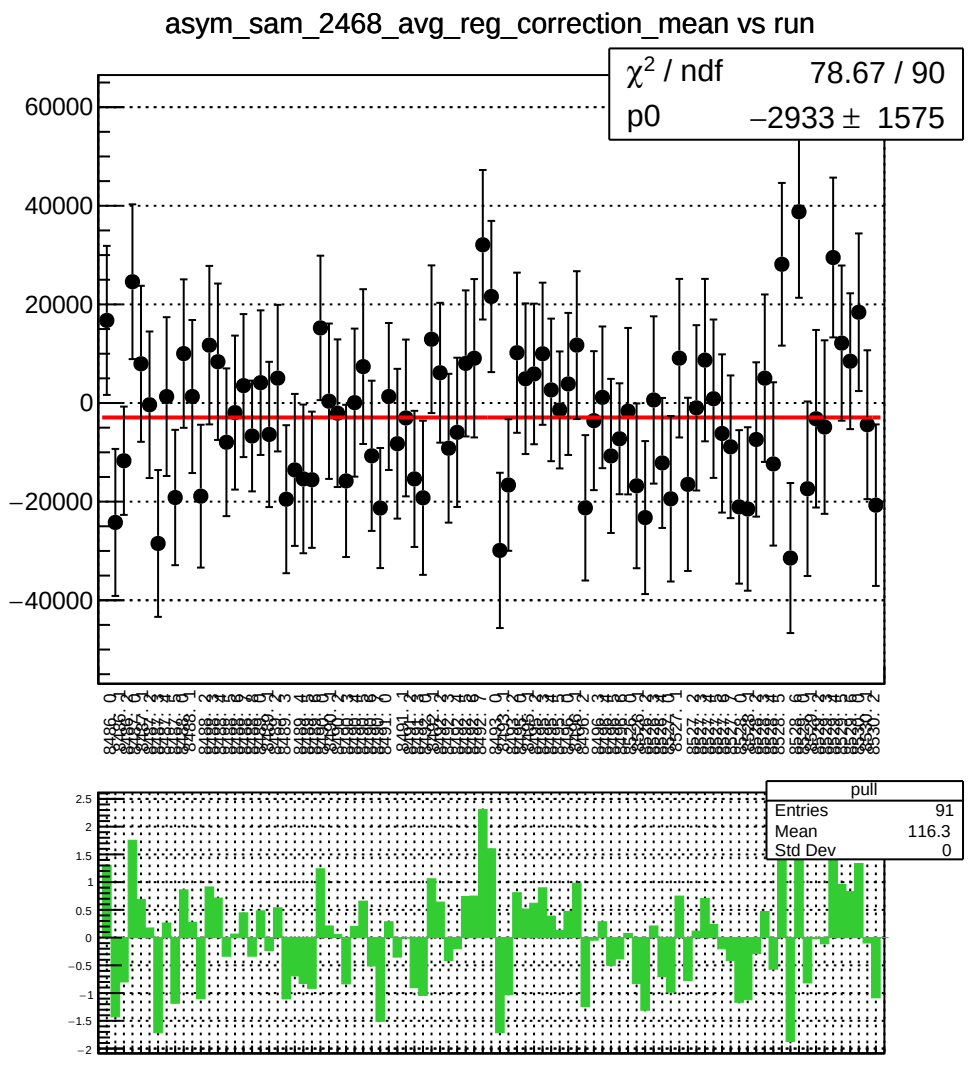

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 86.76 / 90
p0 2.743e−15 ± 4.427e−14
pull
Entries 91
Mean 106.6
Std Dev 0
pull1D
Entries 91
Mean −0.06218
Std Dev 0.9744

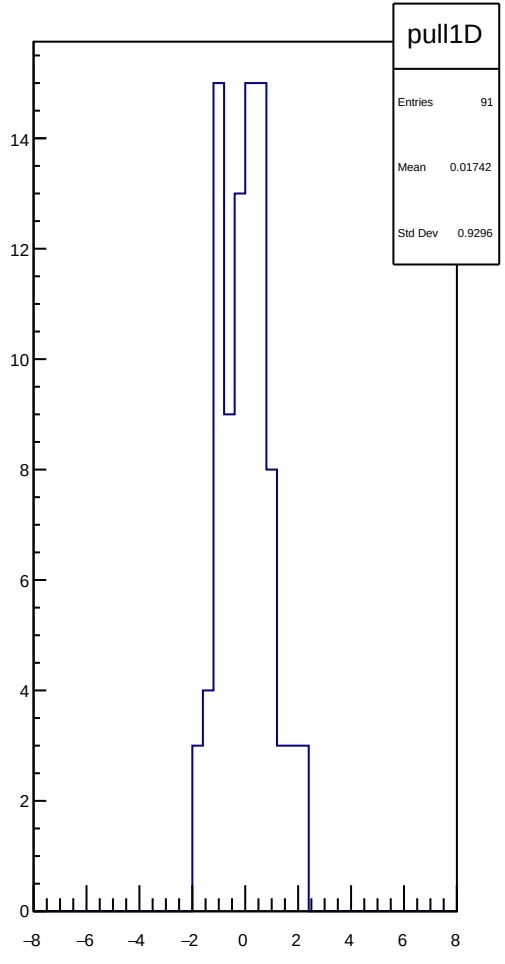

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.881e+05 / 90
p0 3.515e−11 ± 3.13e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

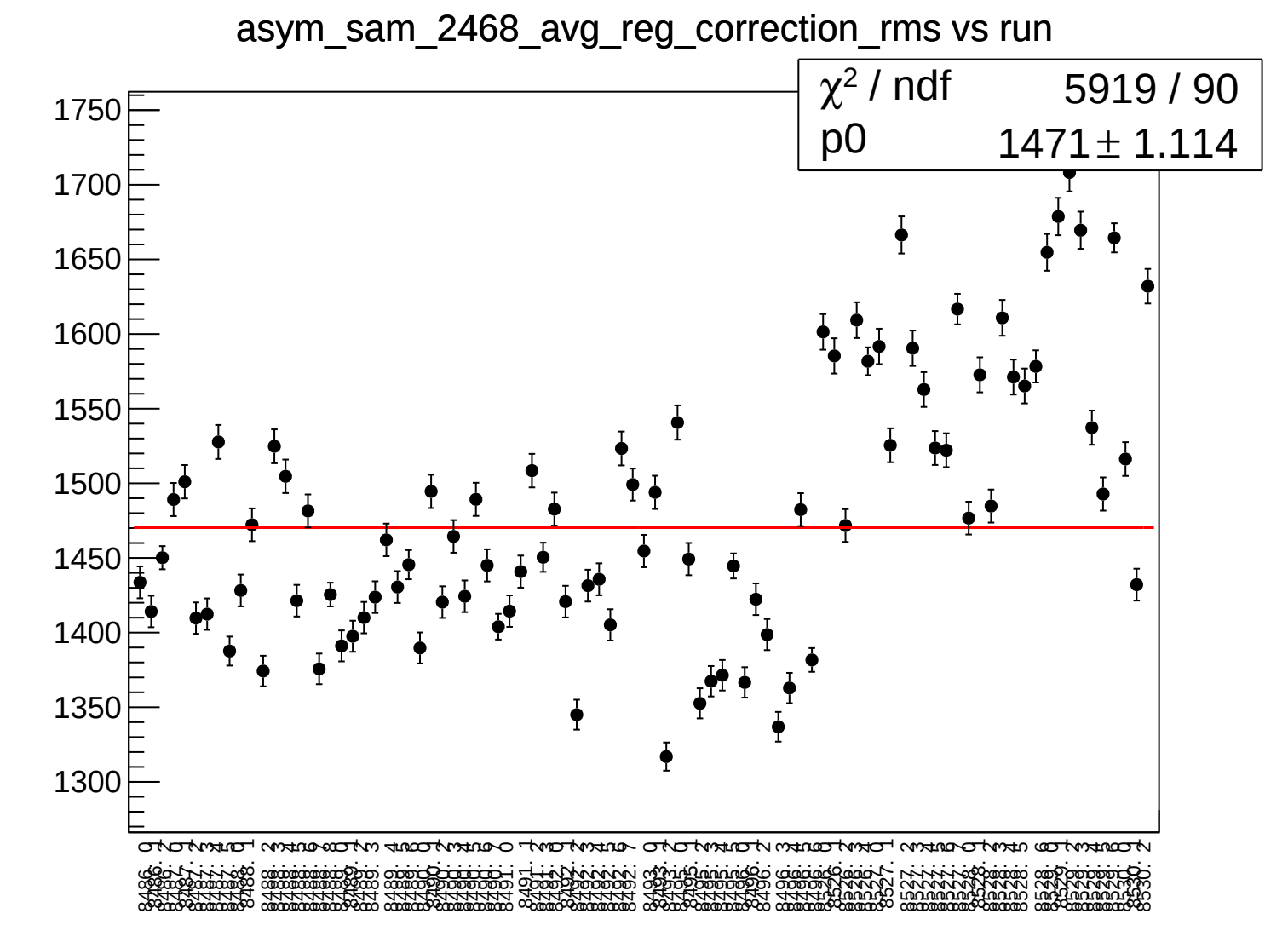

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 85.74 / 90
p0 371.5 ± 120.5
pull
Entries 91
Mean −402.6
Std Dev 0

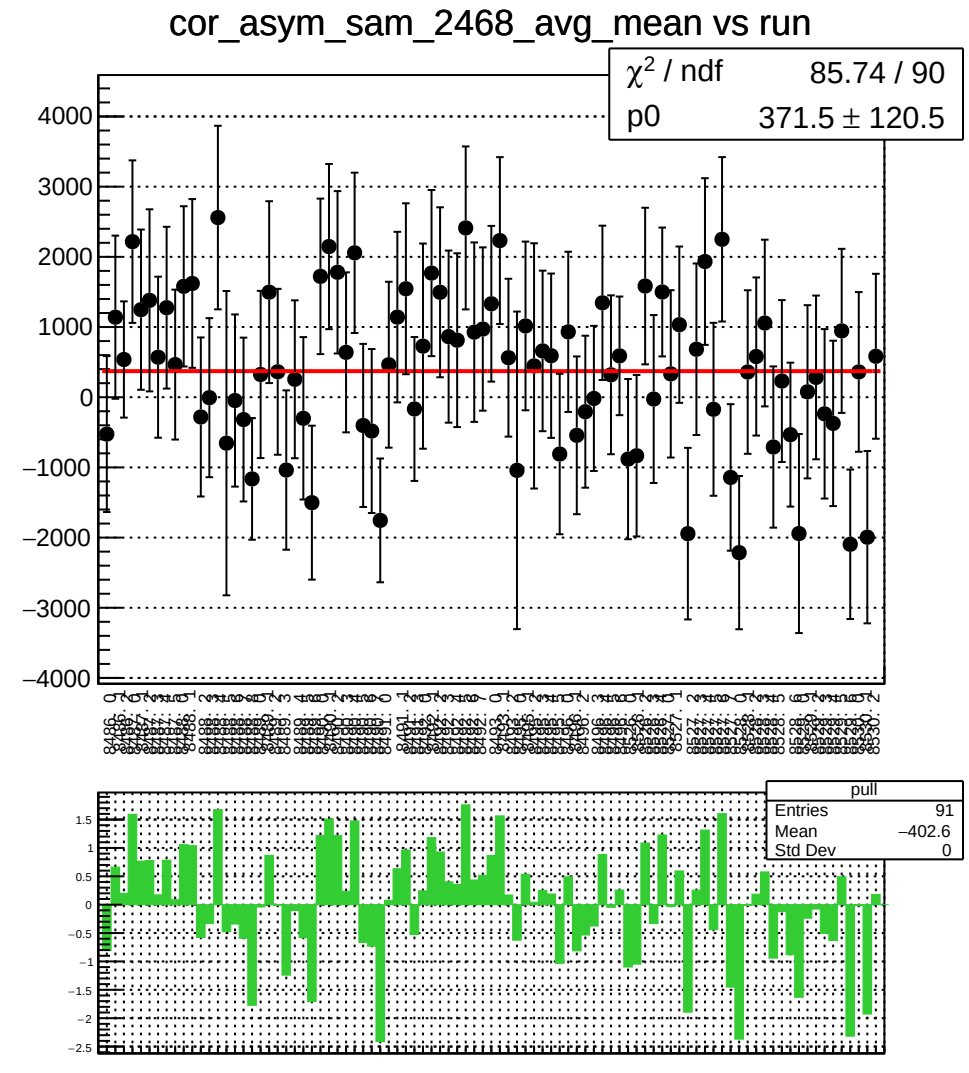

pull1D
Entries 91
Mean 0.01442
Std Dev 0.9705

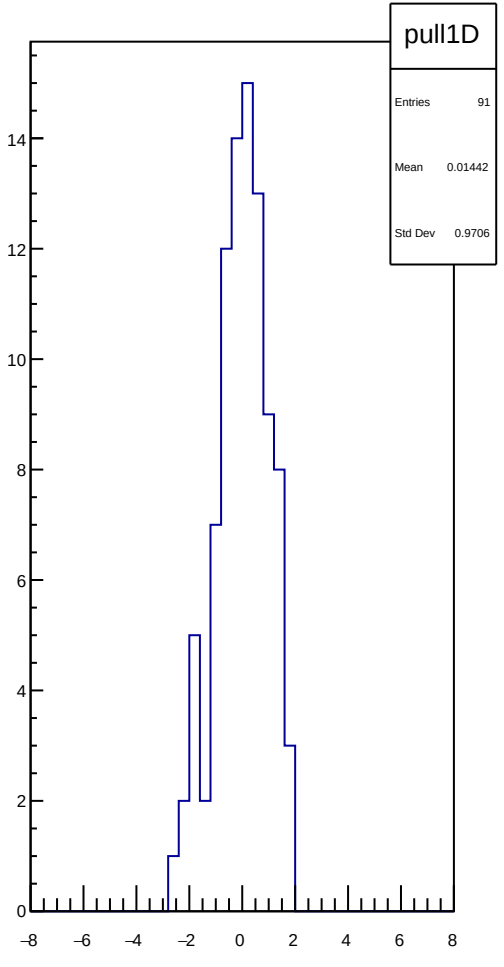

reg_asym_sam_2468_avg_rms vs run
χ^2 / ndf 1.574e+04 / 90
p0 112.2 ± 0.08519
220
200
180
160
140
120
100

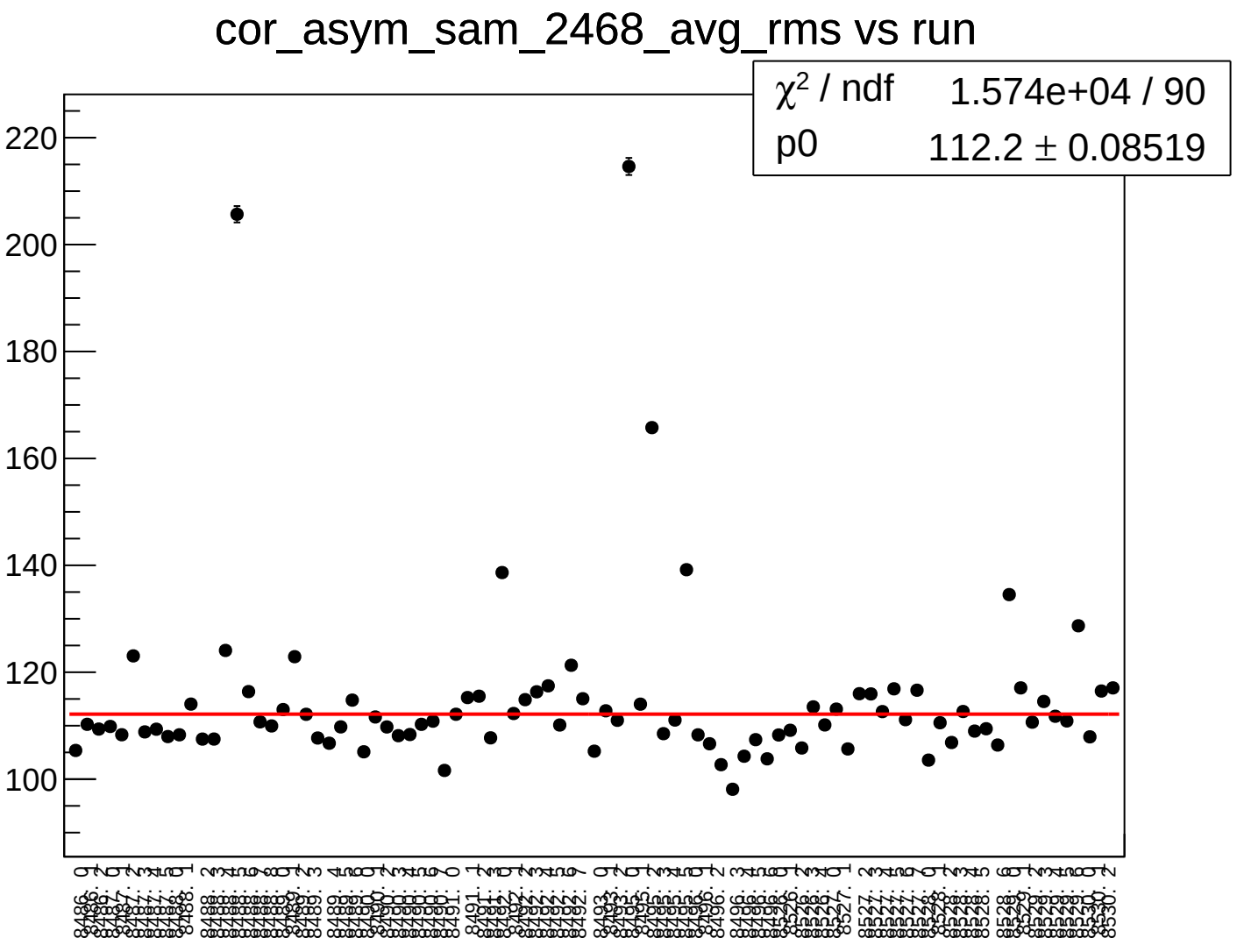

asym_sam_2468_avg_reg_correction_mean vs run
χ² / ndf 78.67 / 90
p0 −2933 ± 1575
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 116.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

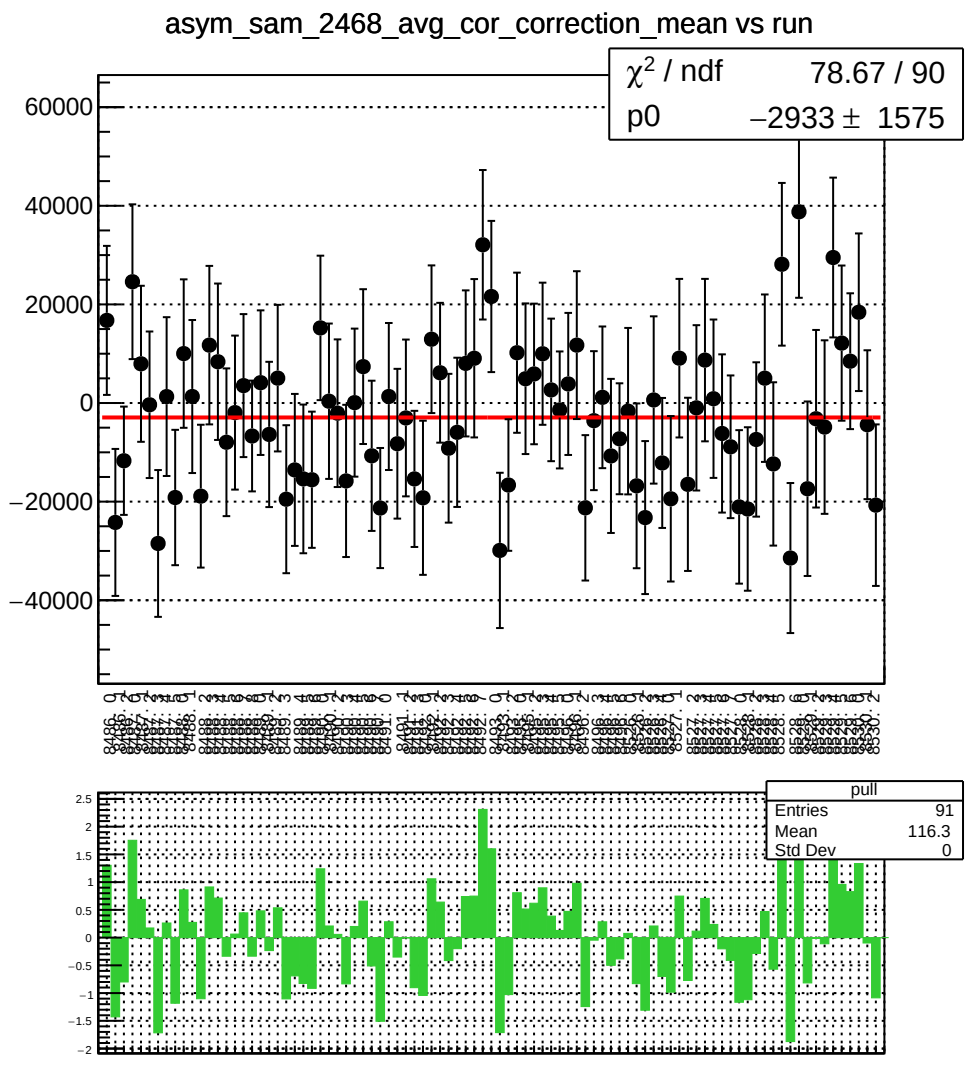

pull1D
Entries 91
Mean 0.01742
Std Dev 0.9296
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

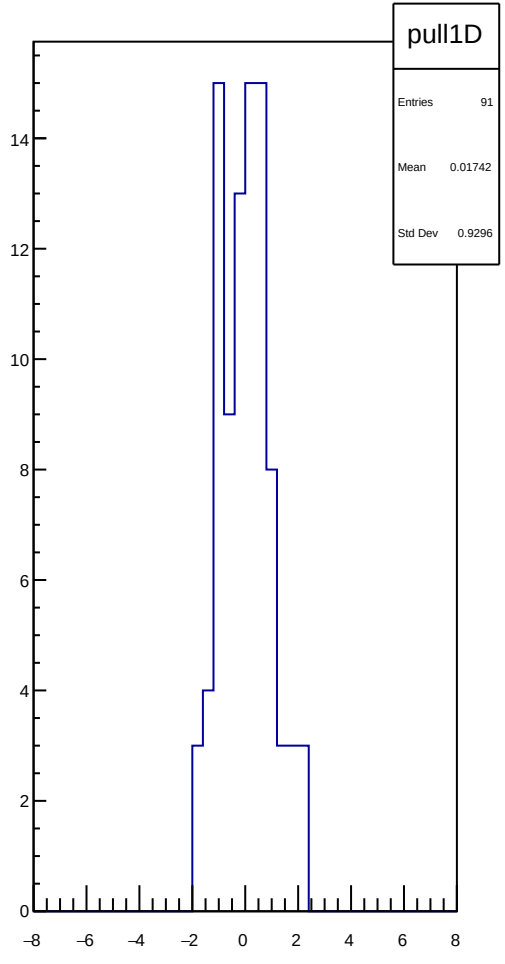

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 5919 / 90
p0 1471 ± 1.114
1750
1700
1650
1600
1550
1500
1450
1400
1350
1300

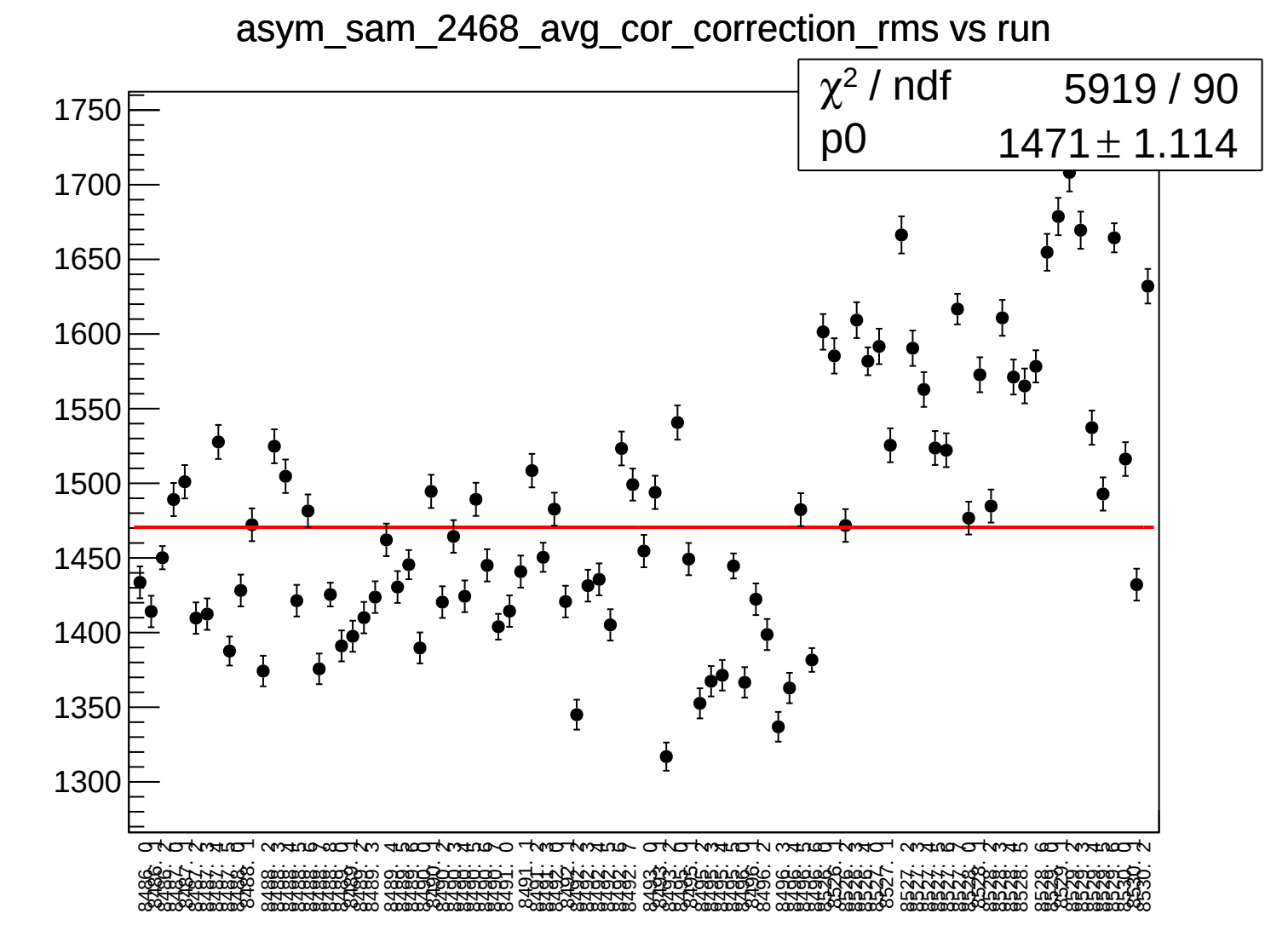

cor_asym_sam_2468_avg_mean vs run
χ² / ndf 85.74 / 90
p0 371.5 ± 120.5
pull
Entries 91
Mean −402.6
Std Dev 0

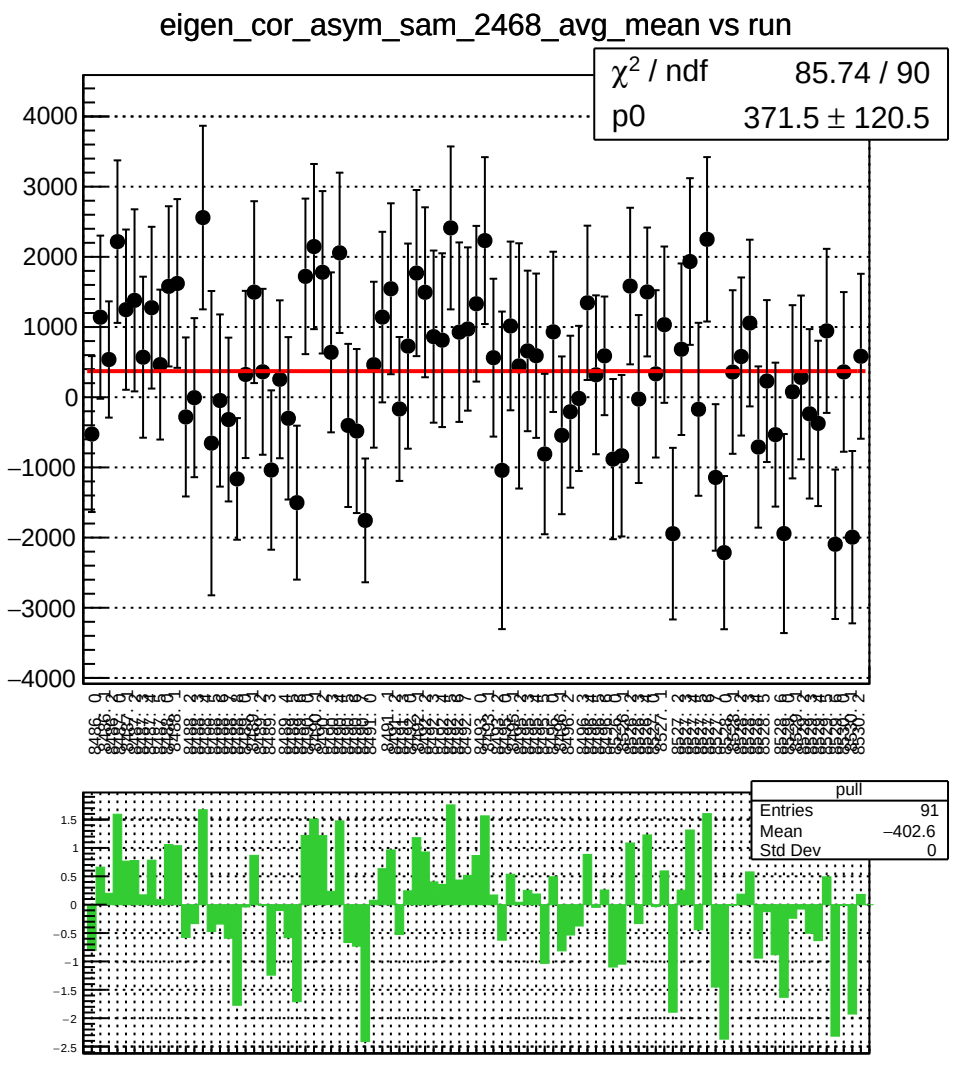

pull1D
Entries 91
Mean 0.01442
Std Dev 0.9706

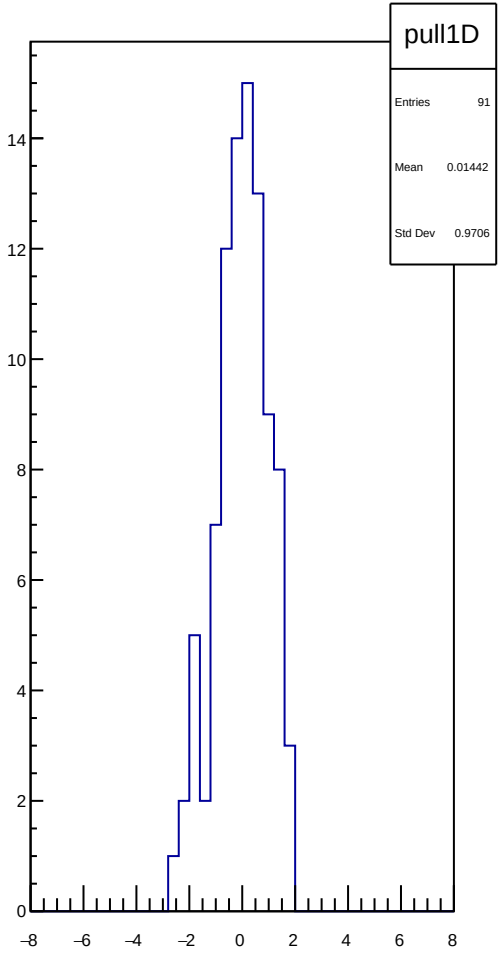

cor_asym_sam_2468_avg_rms vs run
χ² / ndf 1.574e+04 / 90
p0 112.2 ± 0.08519
220
200
180
160
140
120
100

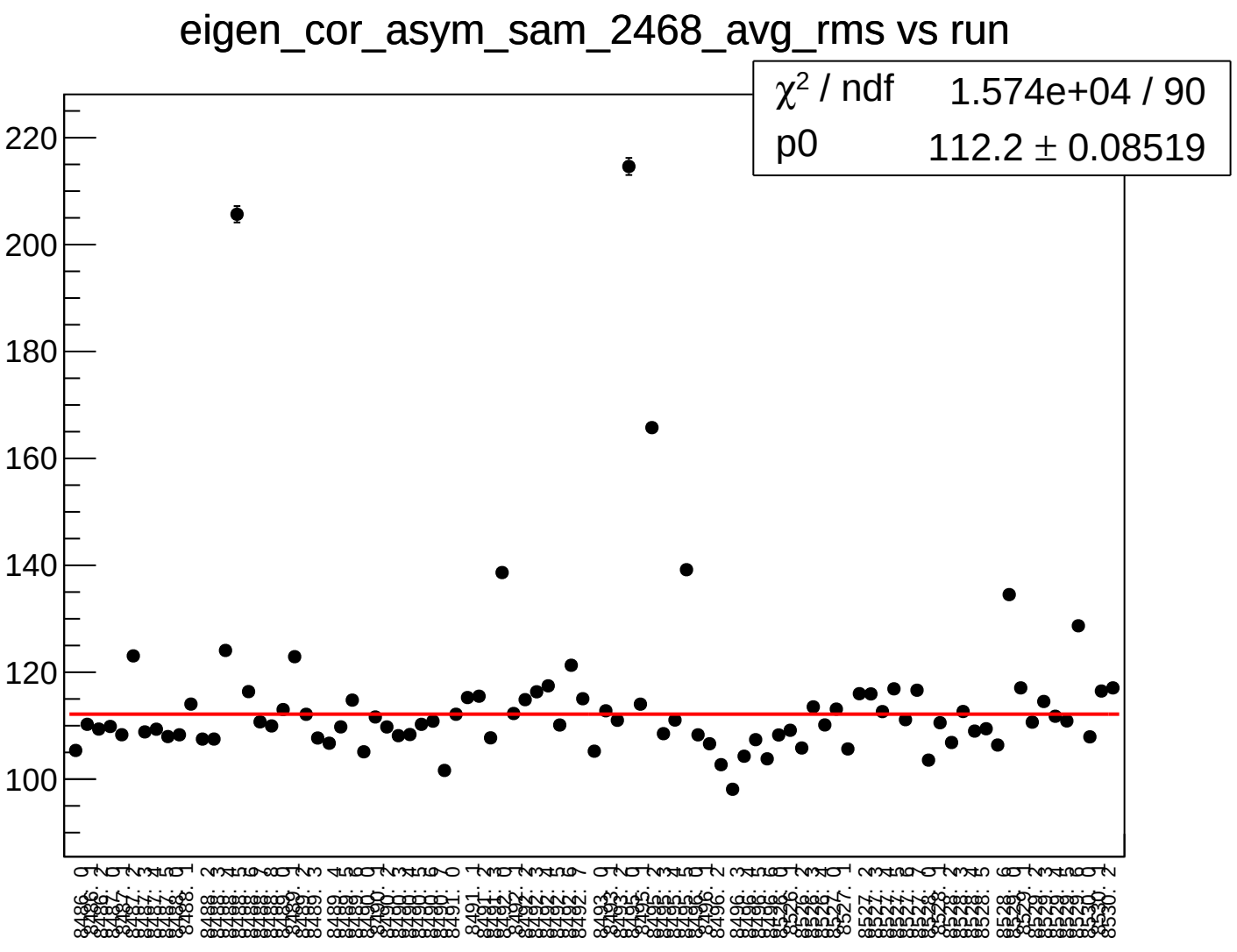

asym_sam_2468_avg_cor_correction_mean vs run
χ² / ndf 78.67 / 90
p0 −2933 ± 1575
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 116.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

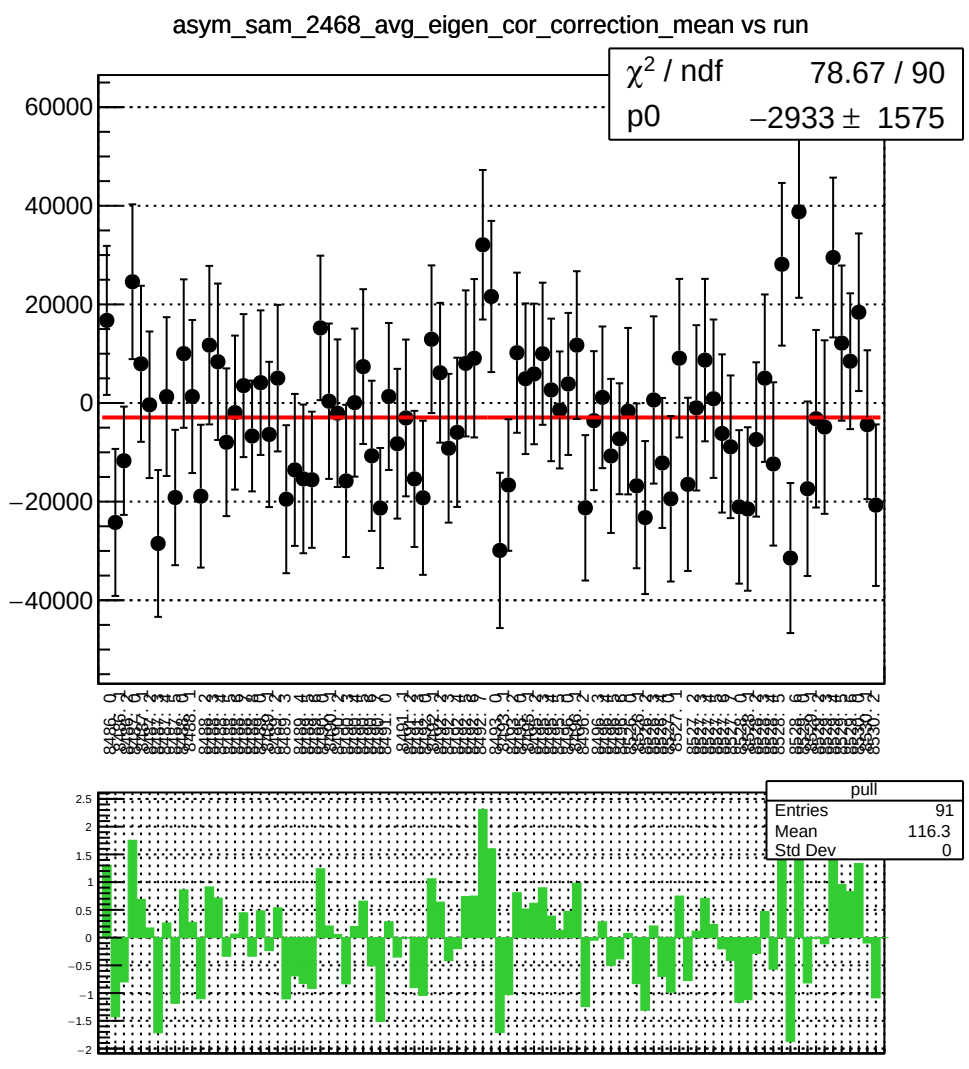

pull1D
Entries 91
Mean 0.01742
Std Dev 0.9296
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

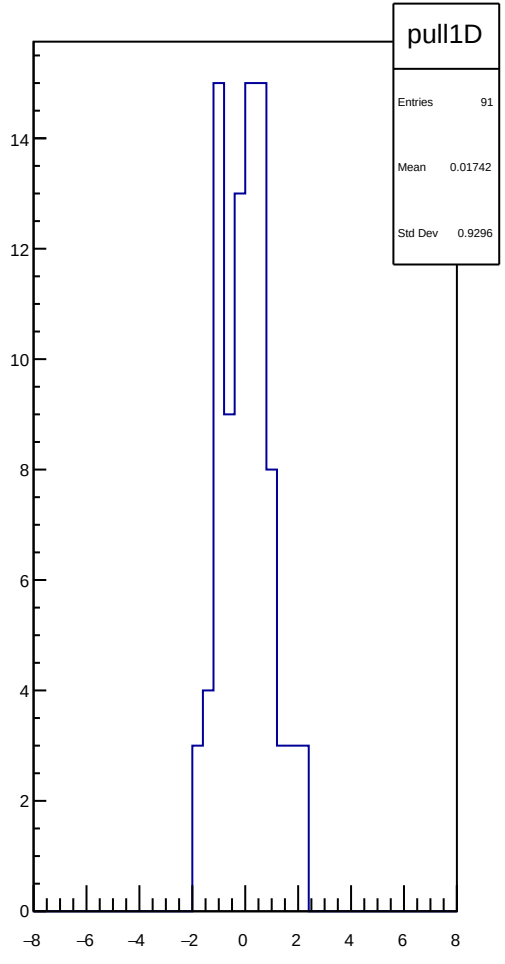

asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 5919 / 90
p0 1471 ± 1.114
1750
1700
1650
1600
1550
1500
1450
1400
1350
1300

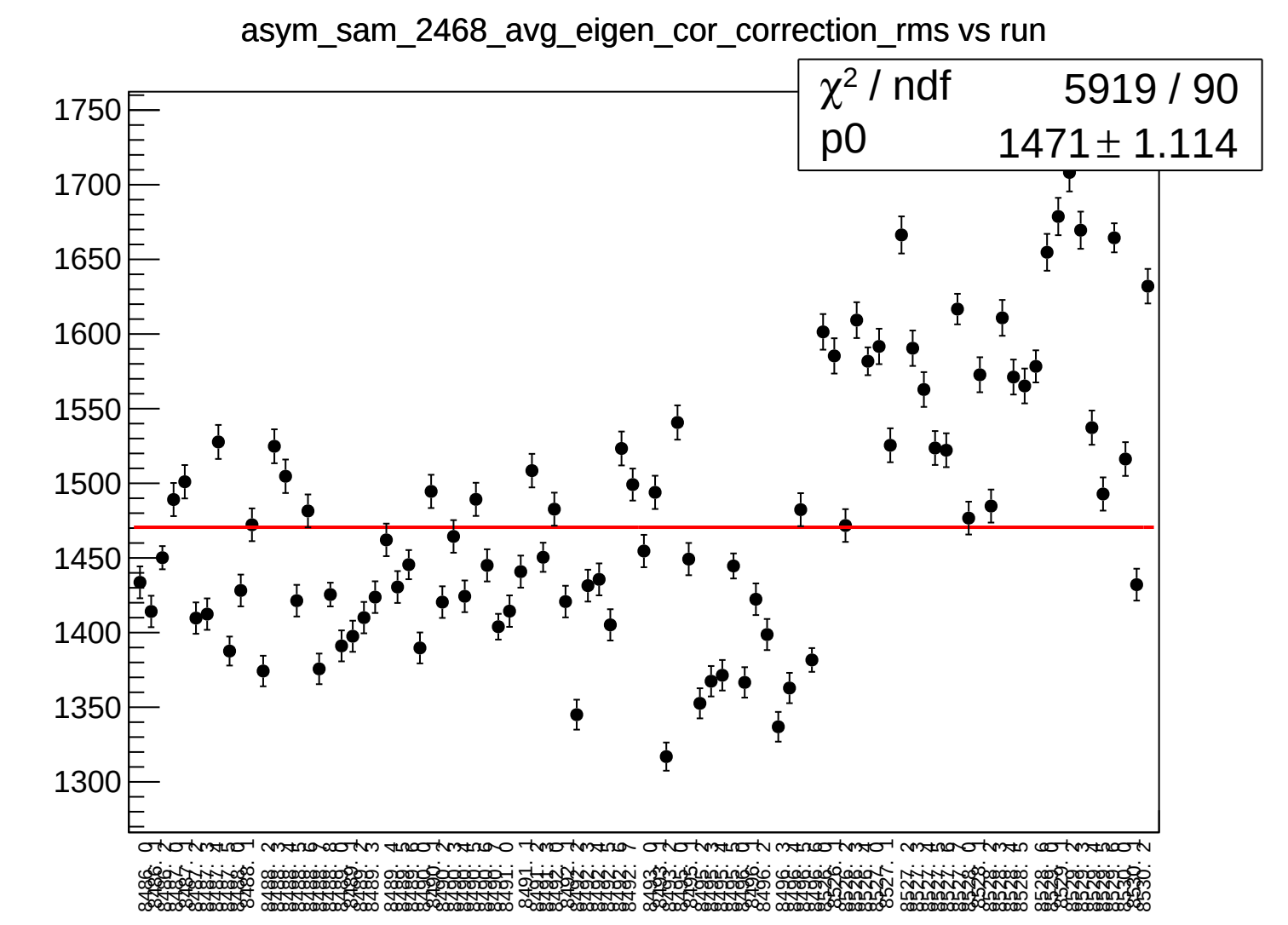

eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 85.74 / 90
p0 371.5 ± 120.5
pull
Entries 91
Mean −402.6
Std Dev 0

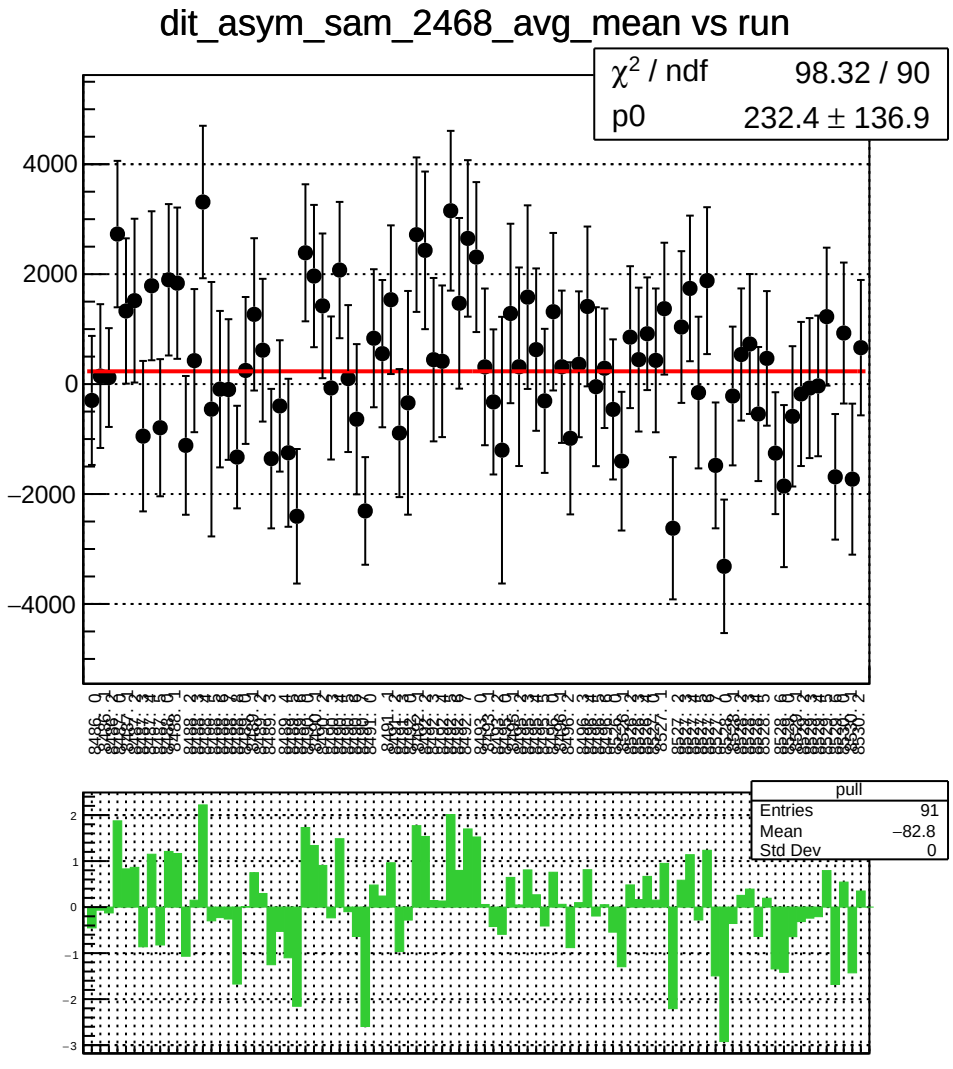

pull1D
Entries 91
Mean 0.01442
Std Dev 0.9706

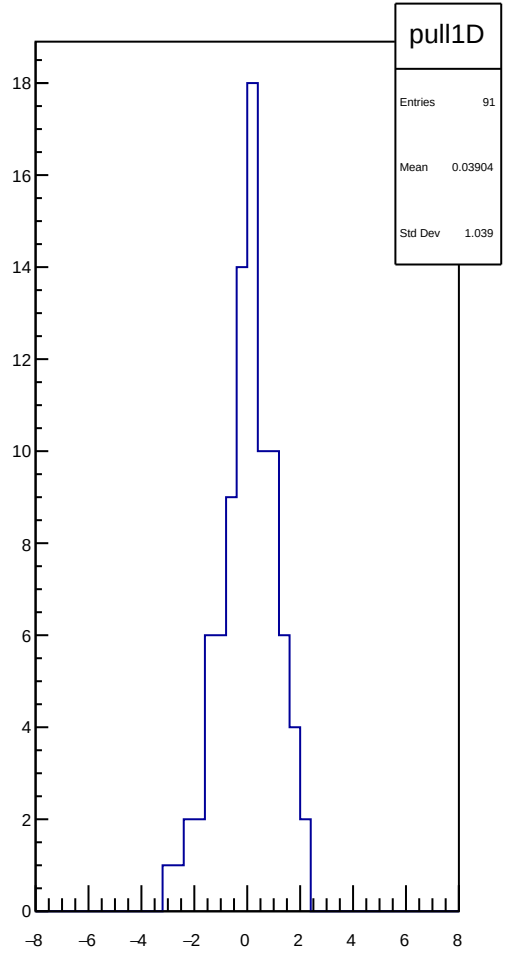

eigen_cor_asym_sam_2468_avg_rms vs run
χ² / ndf 1.574e+04 / 90
p0 112.2 ± 0.08519
220
200
180
160
140
120
100

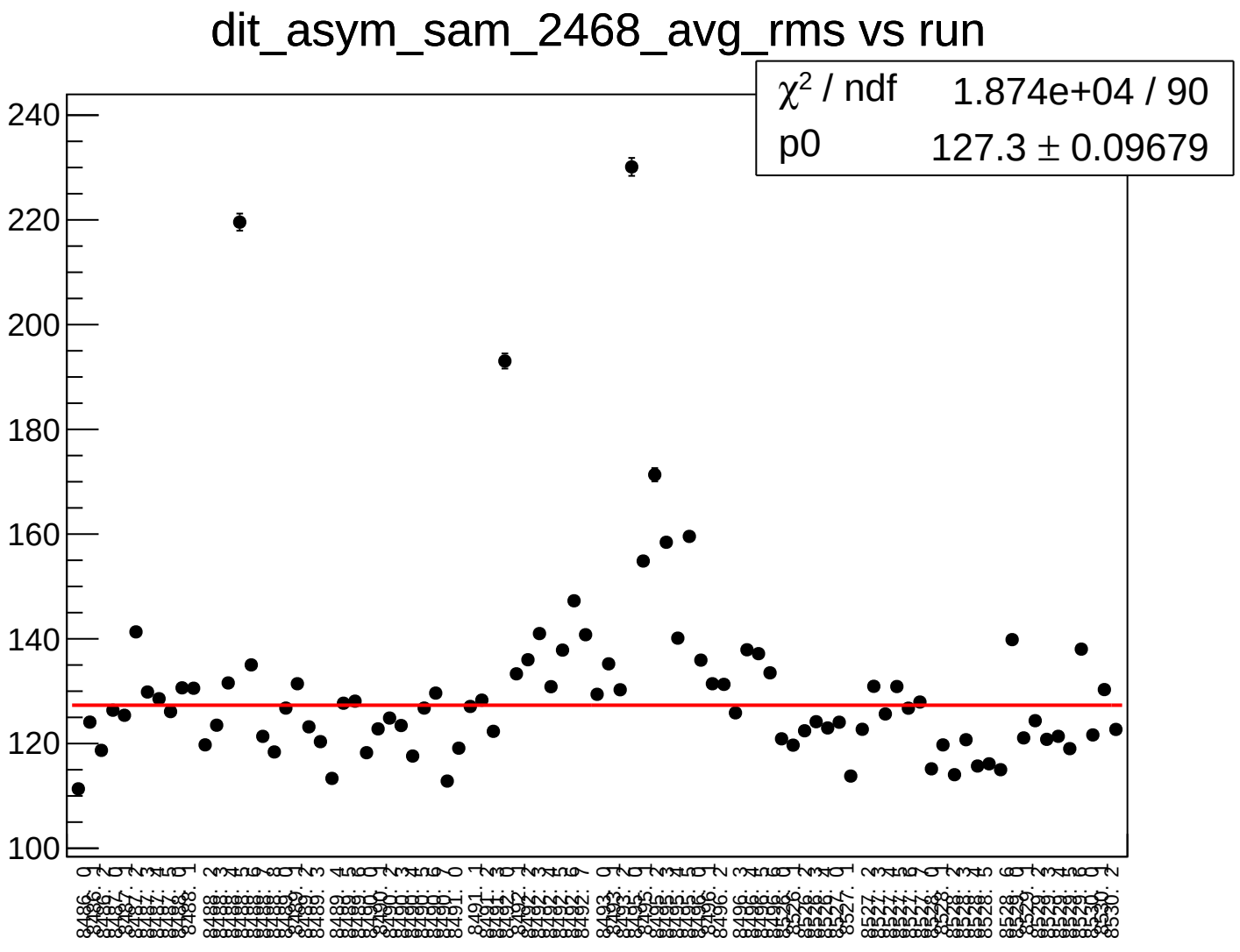

asym_sam_2468_avg_eigen_cor_correction_mean vs run
χ² / ndf 78.67 / 90
p0 −2933 ± 1575
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 116.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

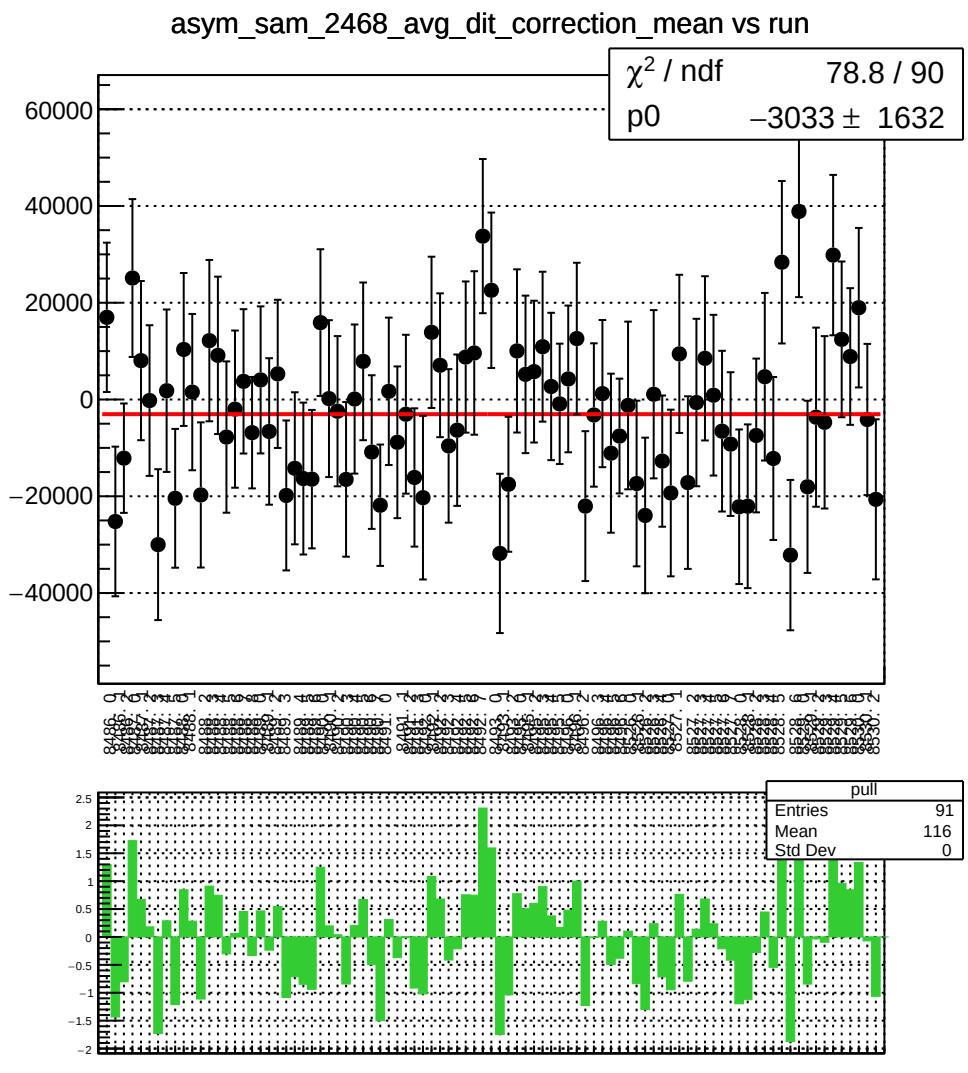

pull1D
Entries 91
Mean 0.01742
Std Dev 0.9296
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

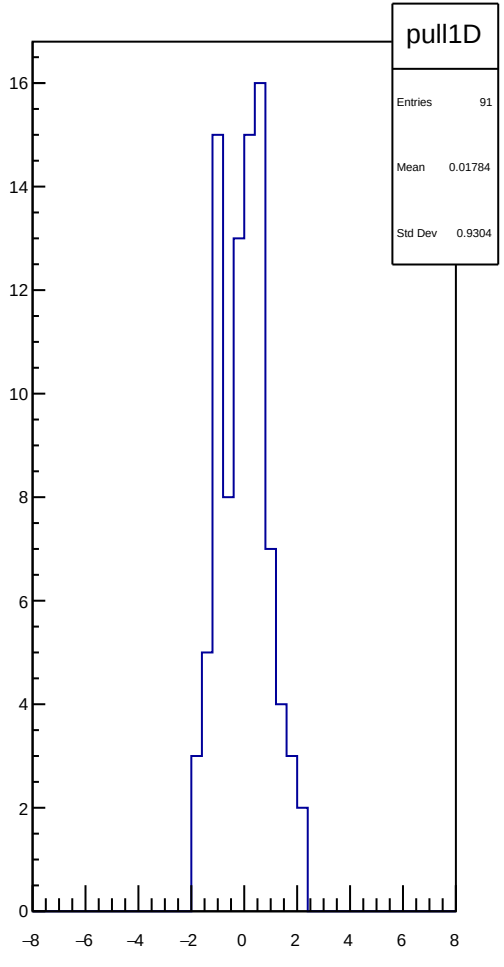

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 5919 / 90
p0 1471 ± 1.114
1750
1700
1650
1600
1550
1500
1450
1400
1350
1300

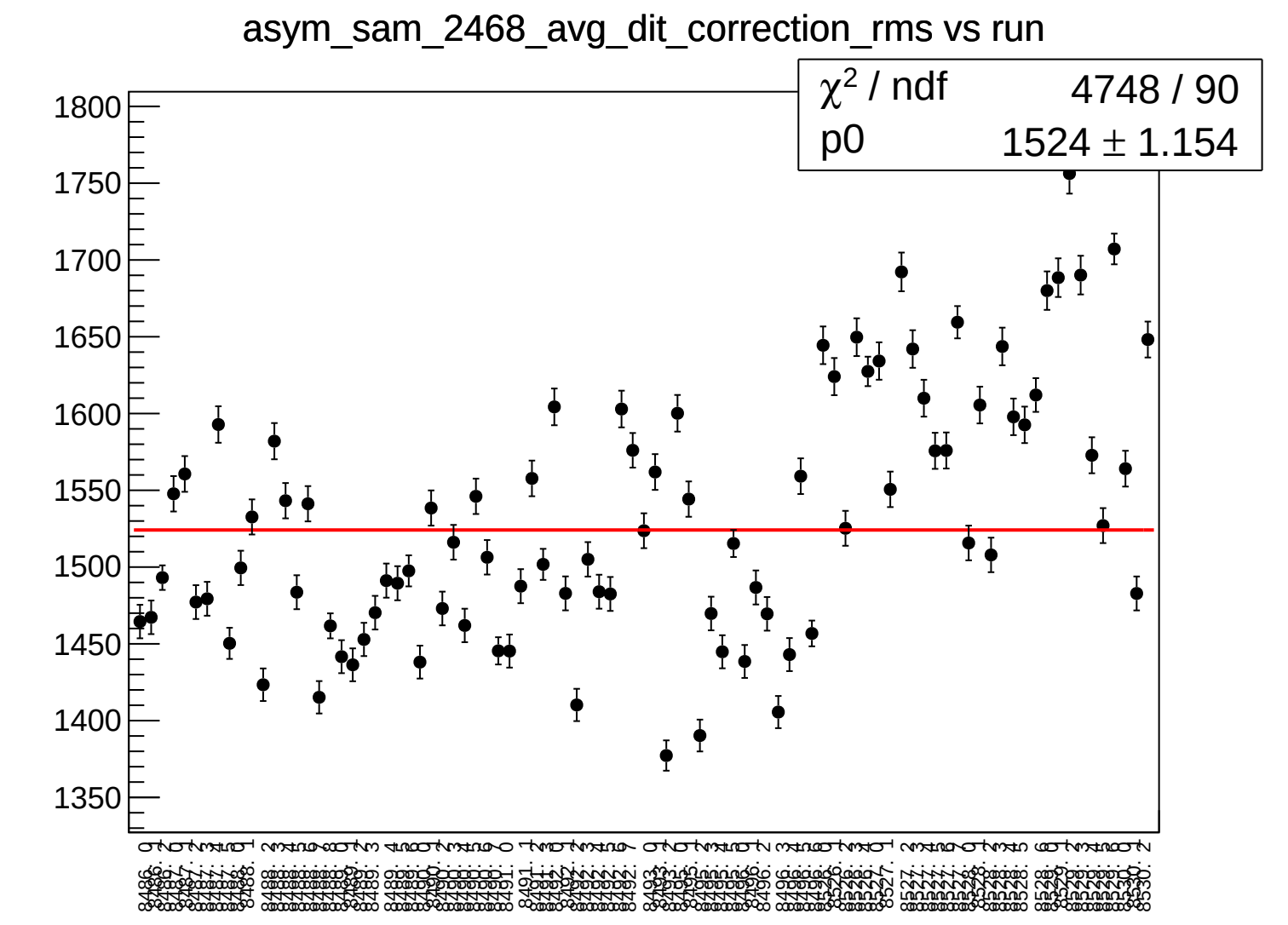

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 98.32 / 90
p0 232.4 ± 136.9
4000
2000
0
−2000
−4000
pull
Entries 91
Mean −82.8
Std Dev 0
2
1
0
−1
−2
−3

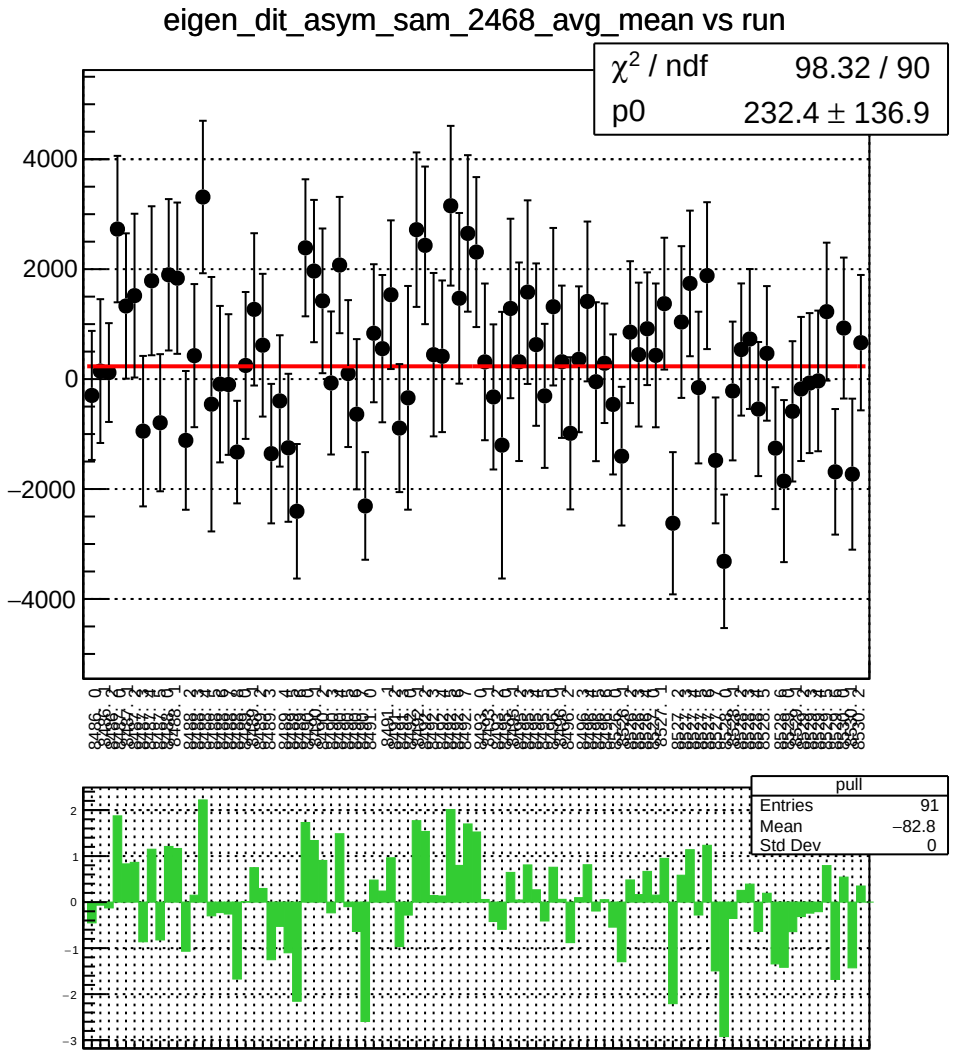

pull1D
Entries 91
Mean 0.03904
Std Dev 1.039
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

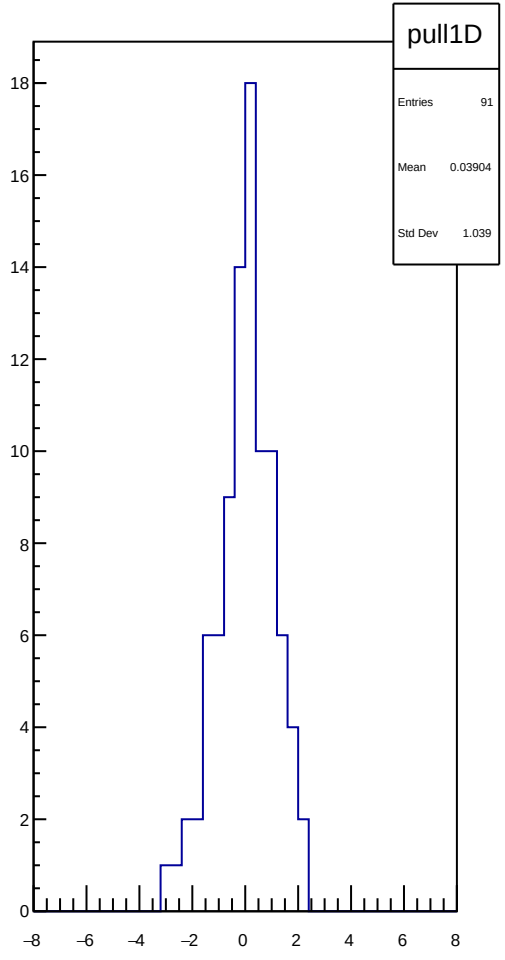

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 1.874e+04 / 90
p0 127.3 ± 0.09679
240
220
200
180
160
140
120
100

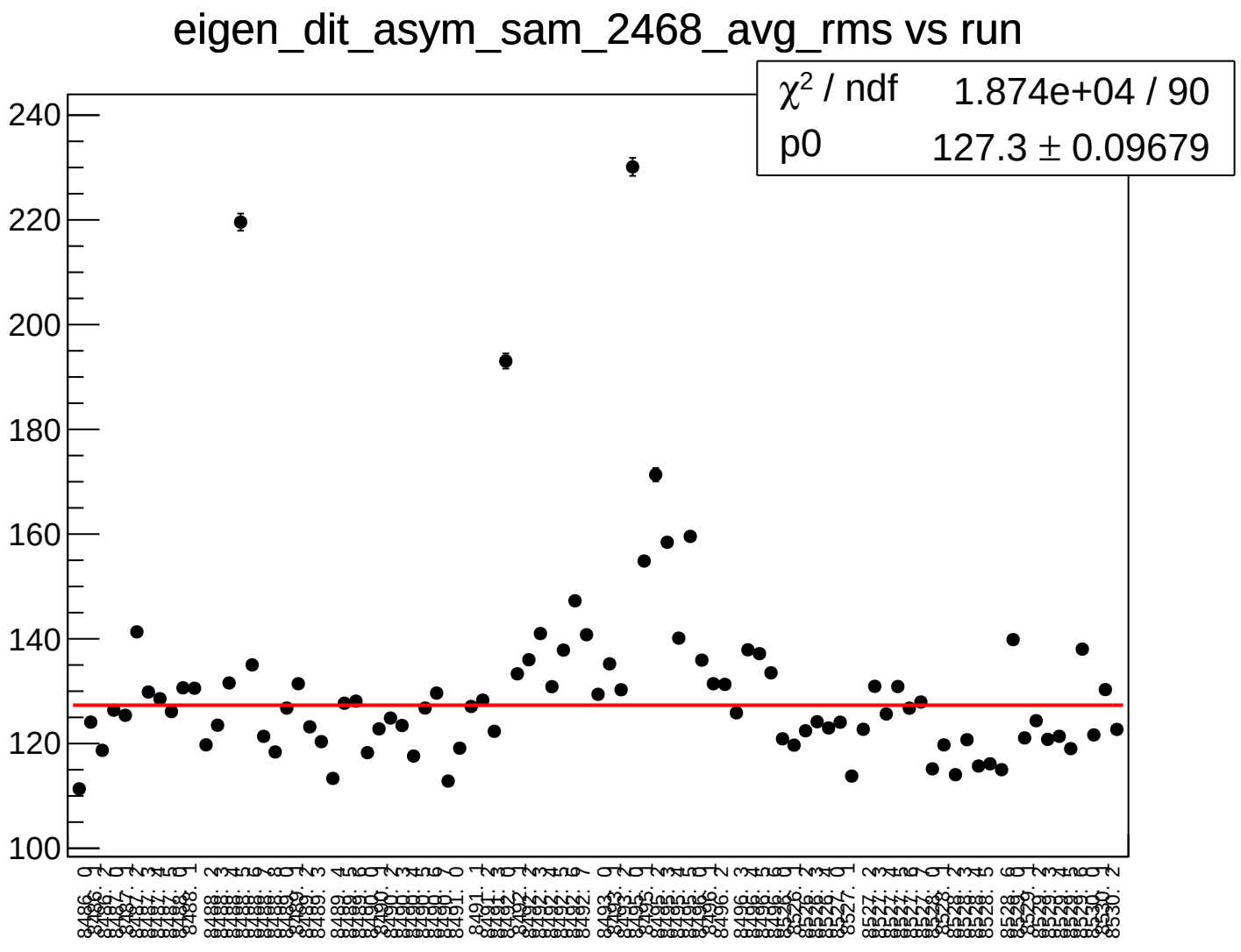

asym_sam_2468_avg_dit_correction_mean vs run
χ² / ndf 78.8 / 90
p0 −3033 ± 1632
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 116
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

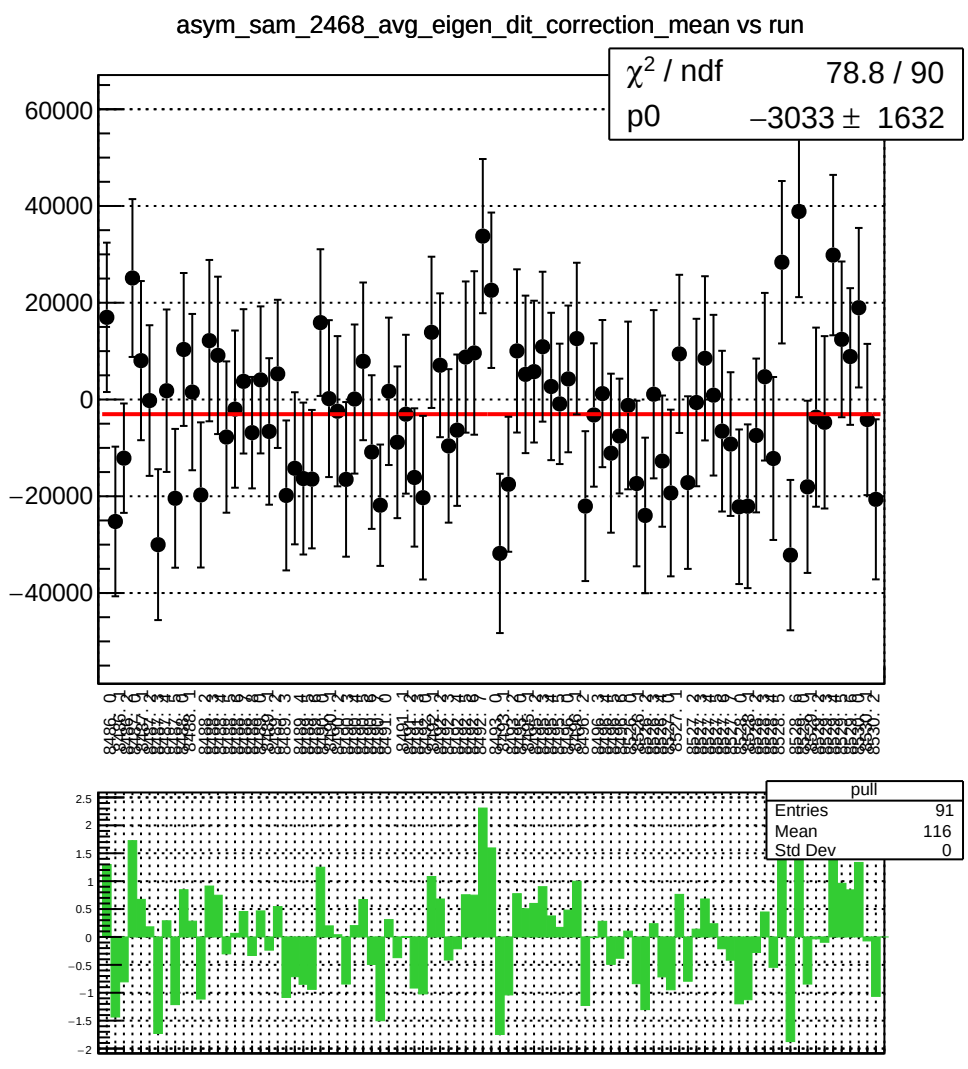

pull1D
Entries 91
Mean 0.01784
Std Dev 0.9304
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

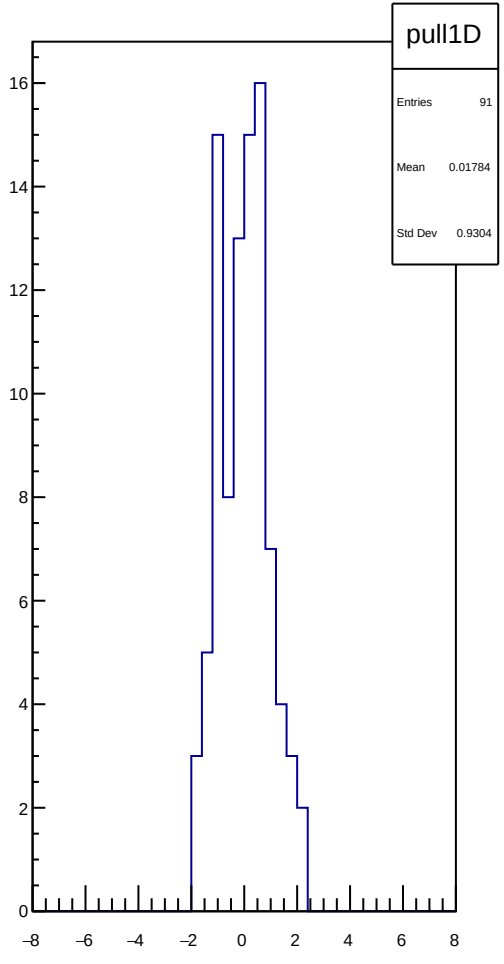

asym_sam_2468_avg_dit_correction_rms vs run
χ^2 / ndf 4748 / 90
p0 1524 ± 1.154
1800
1750
1700
1650
1600
1550
1500
1450
1400
1350

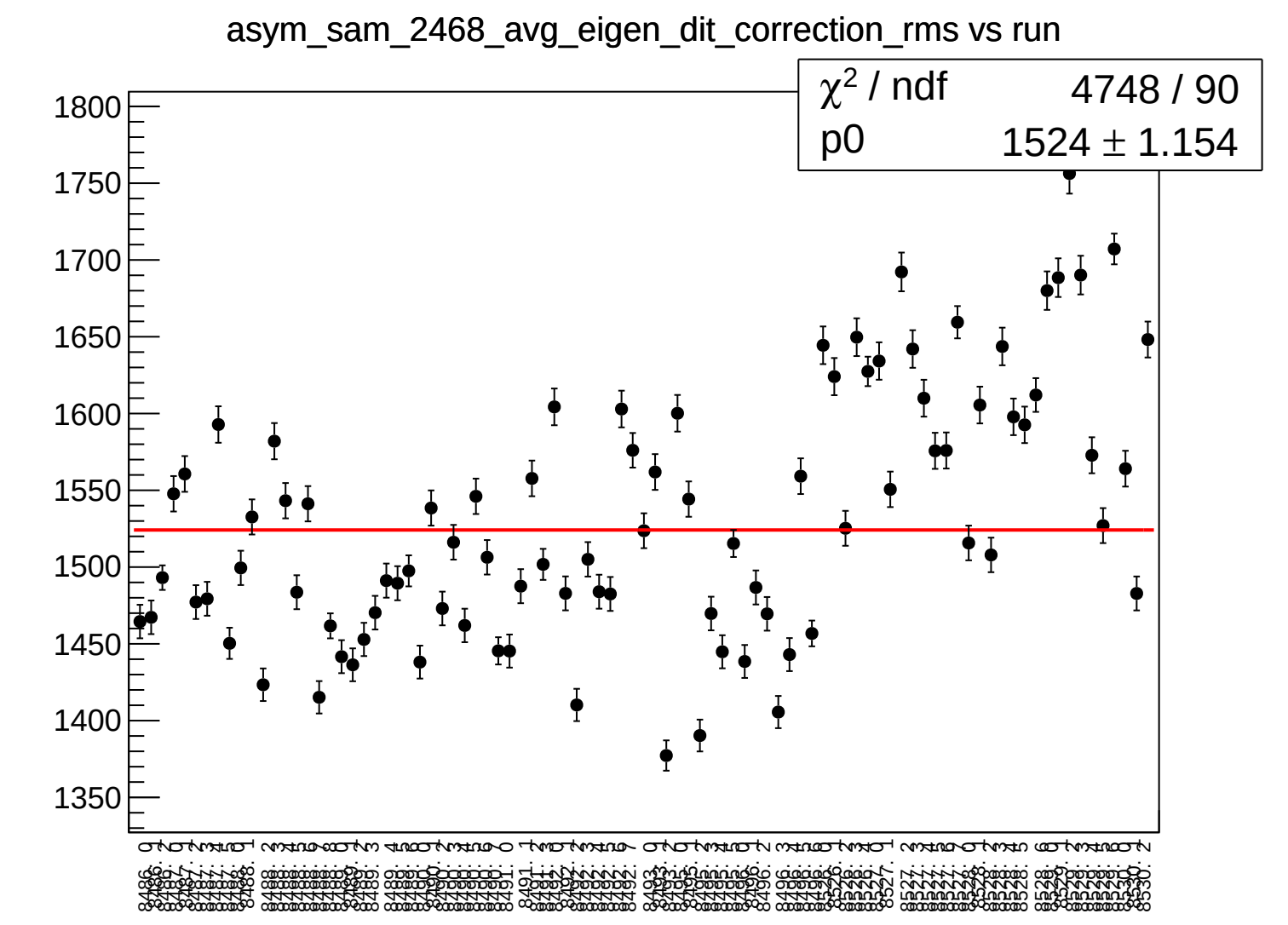

eigen_dit_asym_sam_2468_avg_mean vs run
χ² / ndf 98.32 / 90
p0 232.4 ± 136.9
4000
2000
0
−2000
−4000
pull
Entries 91
Mean −82.8
Std Dev 0
2
1
0
−1
−2
−3

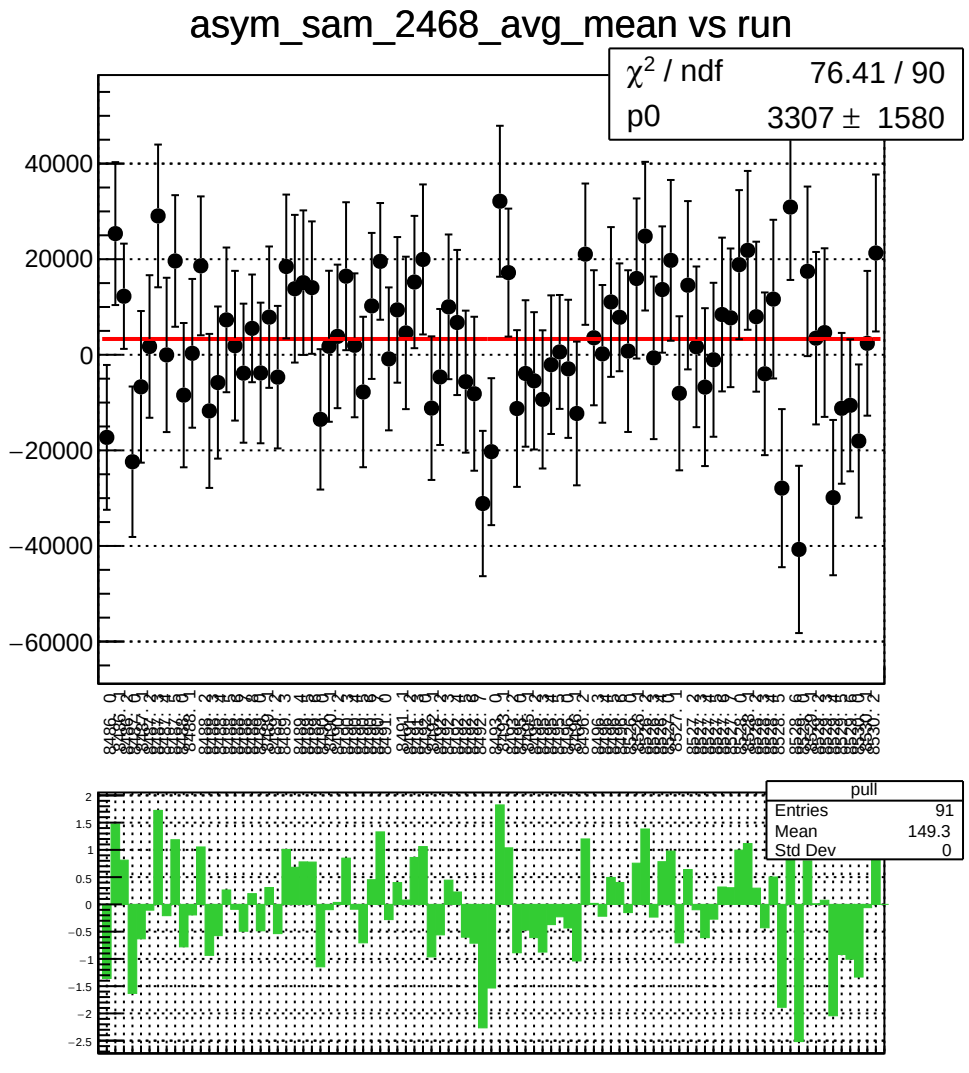

pull1D
Entries 91
Mean 0.03904
Std Dev 1.039
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

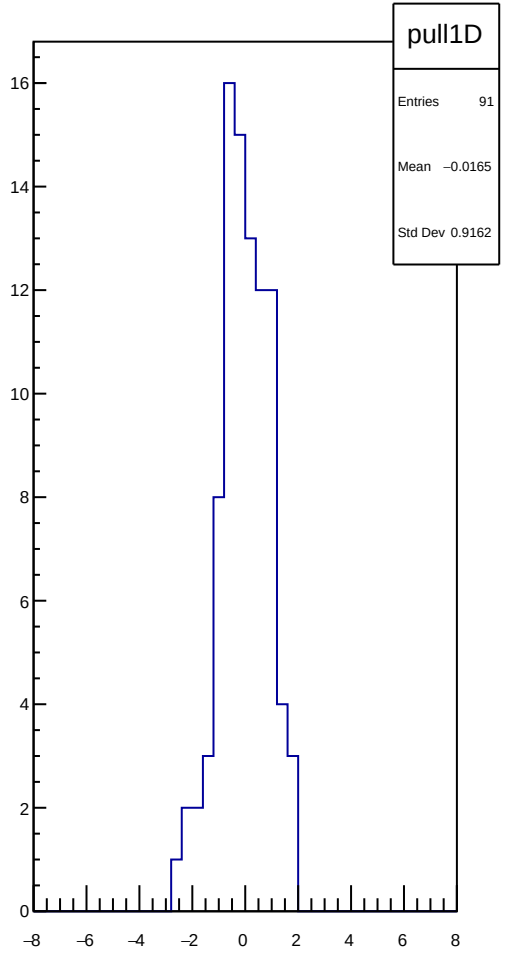

eigen_dit_asym_sam_2468_avg_rms vs run
χ² / ndf 1.874e+04 / 90
p0 127.3 ± 0.09679
240
220
200
180
160
140
120
100

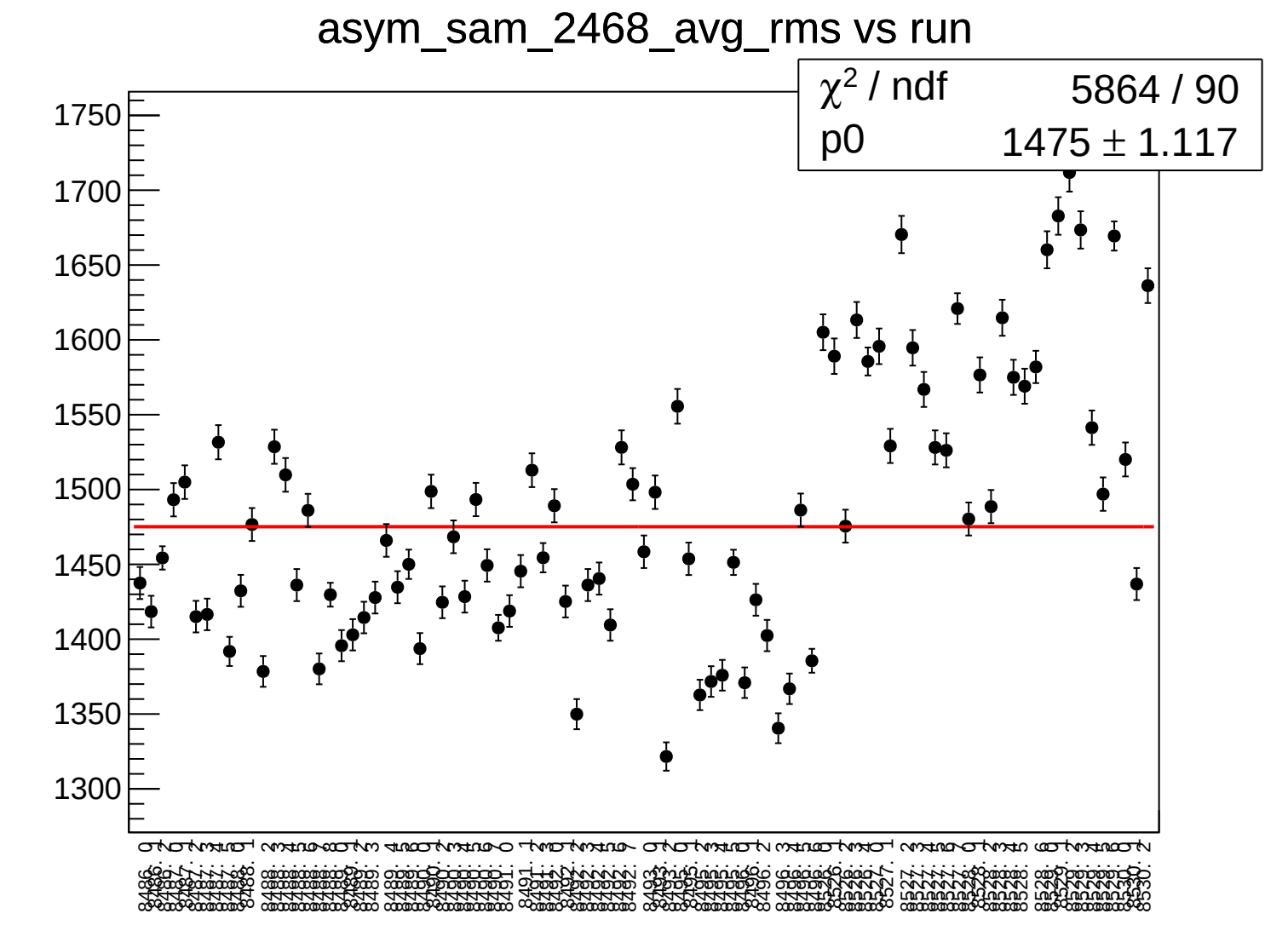

asym_sam_2468_avg_eigen_dit_correction_mean vs run
χ² / ndf 78.8 / 90
p0 −3033 ± 1632
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 116
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

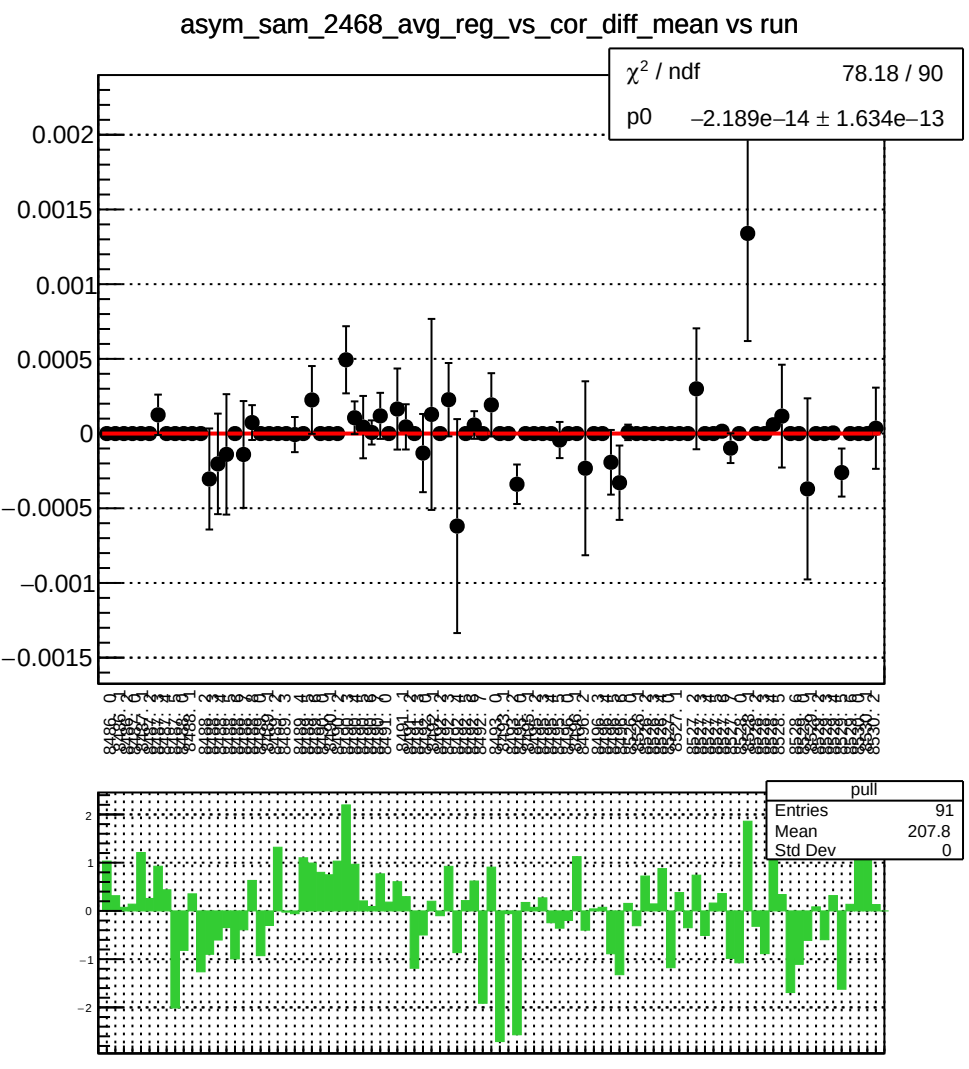

pull1D
Entries 91
Mean 0.01784
Std Dev 0.9304
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

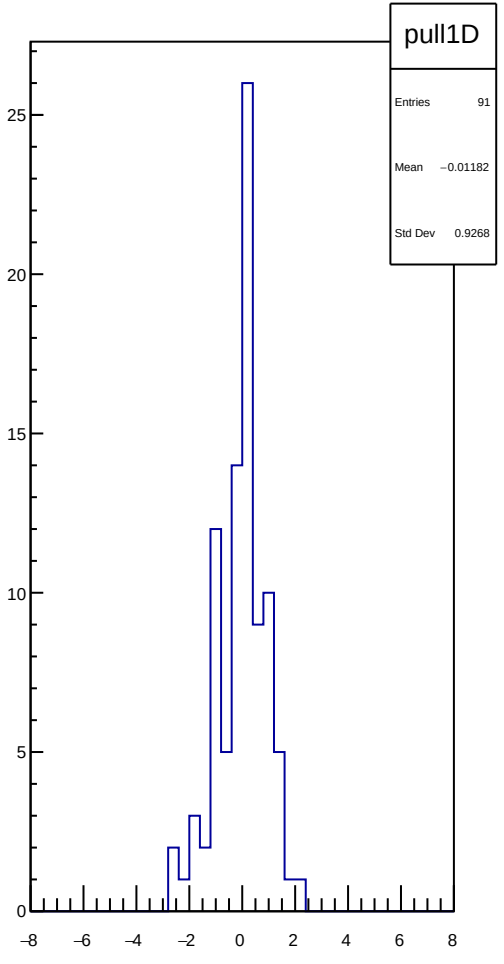

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 4748 / 90
p0 1524 ± 1.154
1800
1750
1700
1650
1600
1550
1500
1450
1400
1350

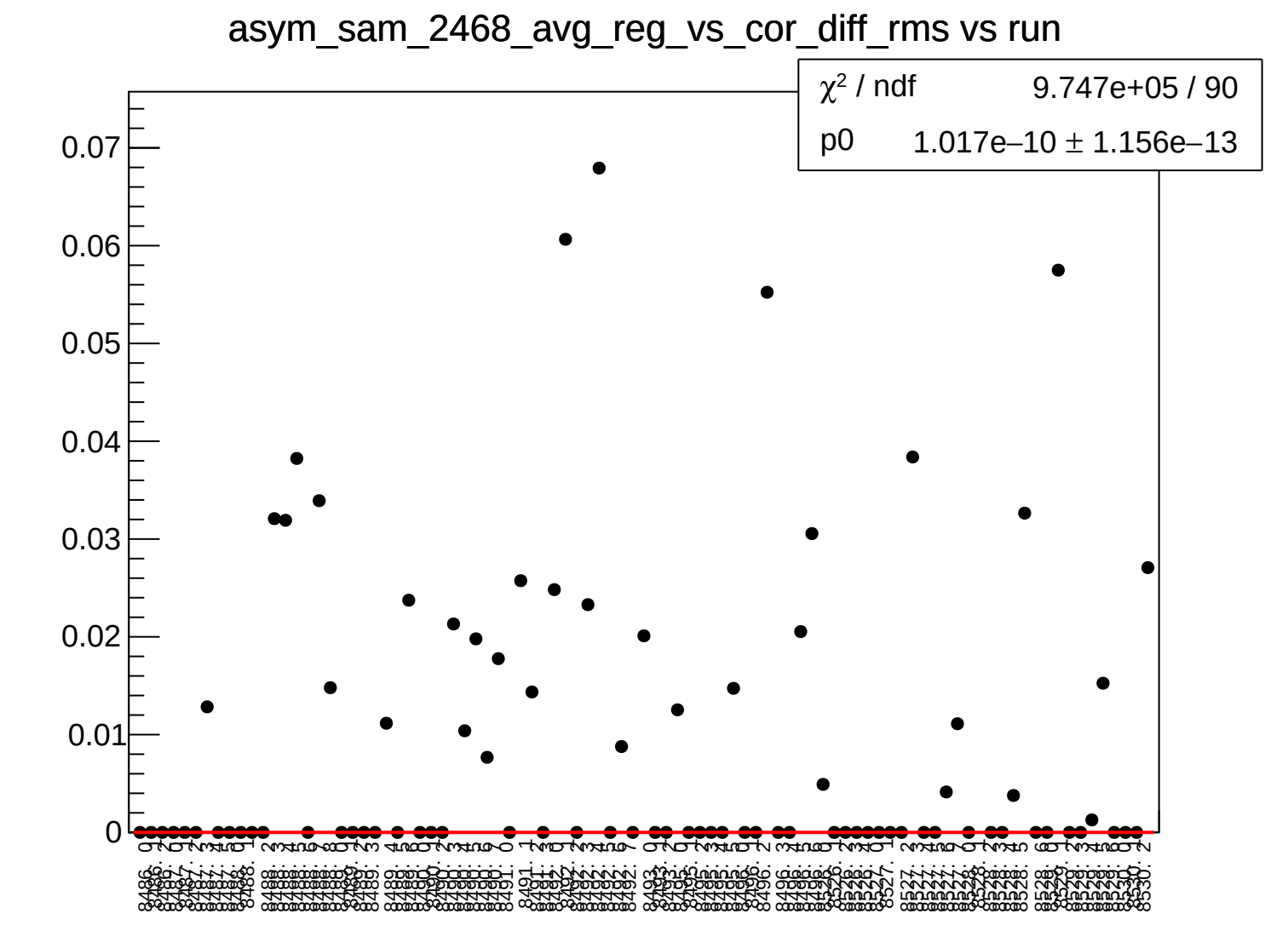

asym_sam_2468_avg_mean vs run
χ² / ndf 76.41 / 90
p0 3307 ± 1580
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 149.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

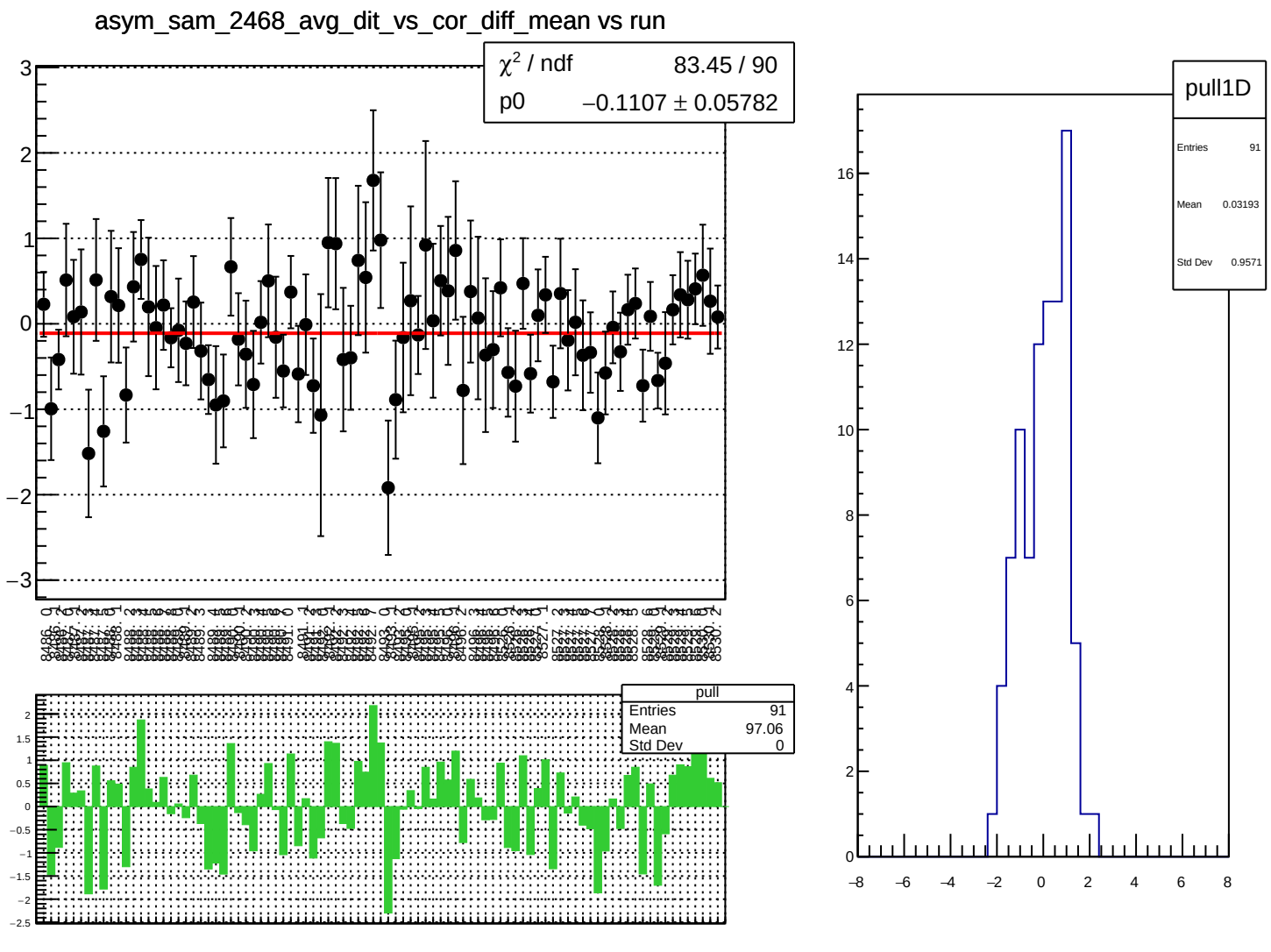

pull1D
Entries 91
Mean −0.0165
Std Dev 0.9162
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

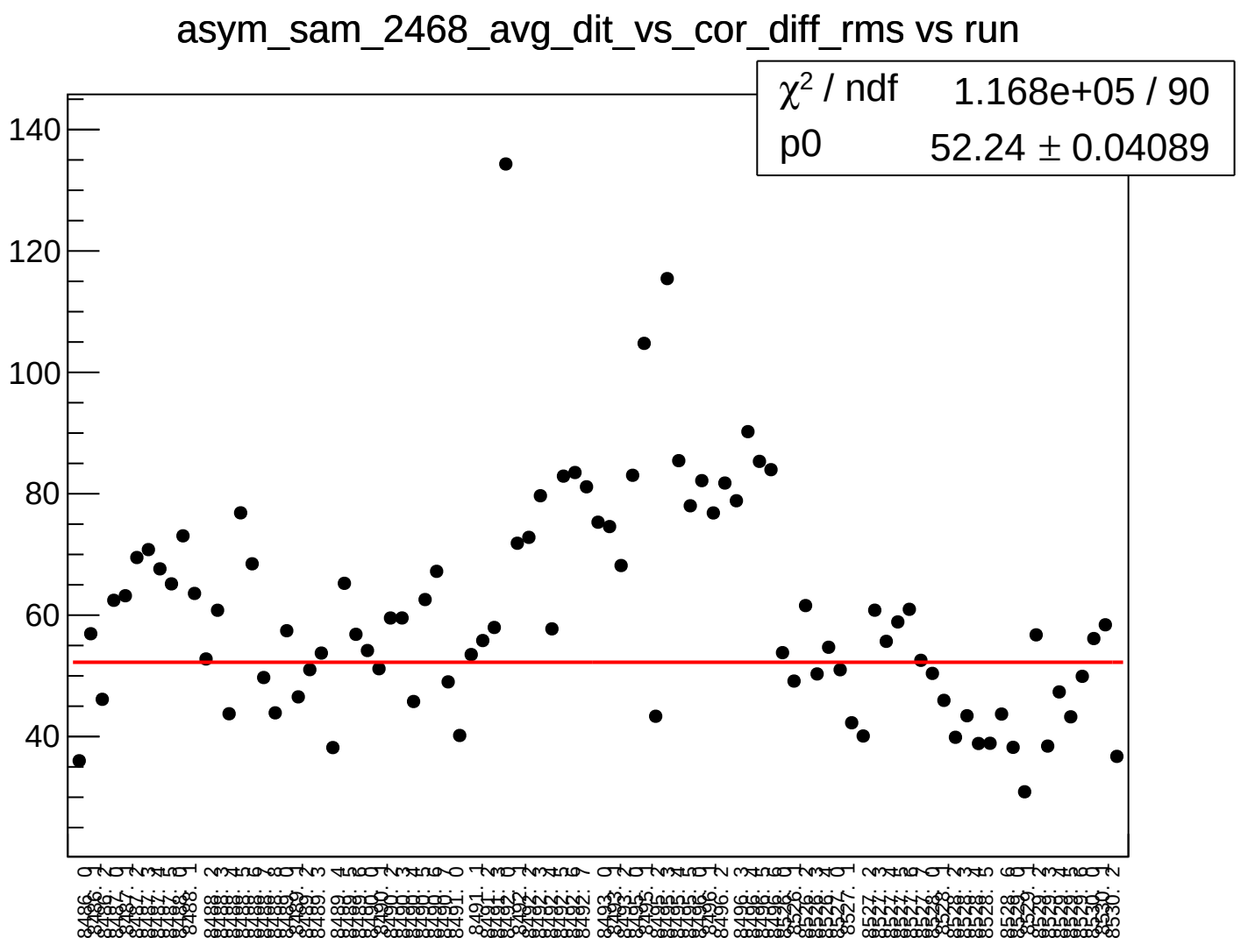

asym_sam_2468_avg_rms vs run
χ^2 / ndf 5864 / 90
p0 1475 ± 1.117
1750
1700
1650
1600
1550
1500
1450
1400
1350
1300

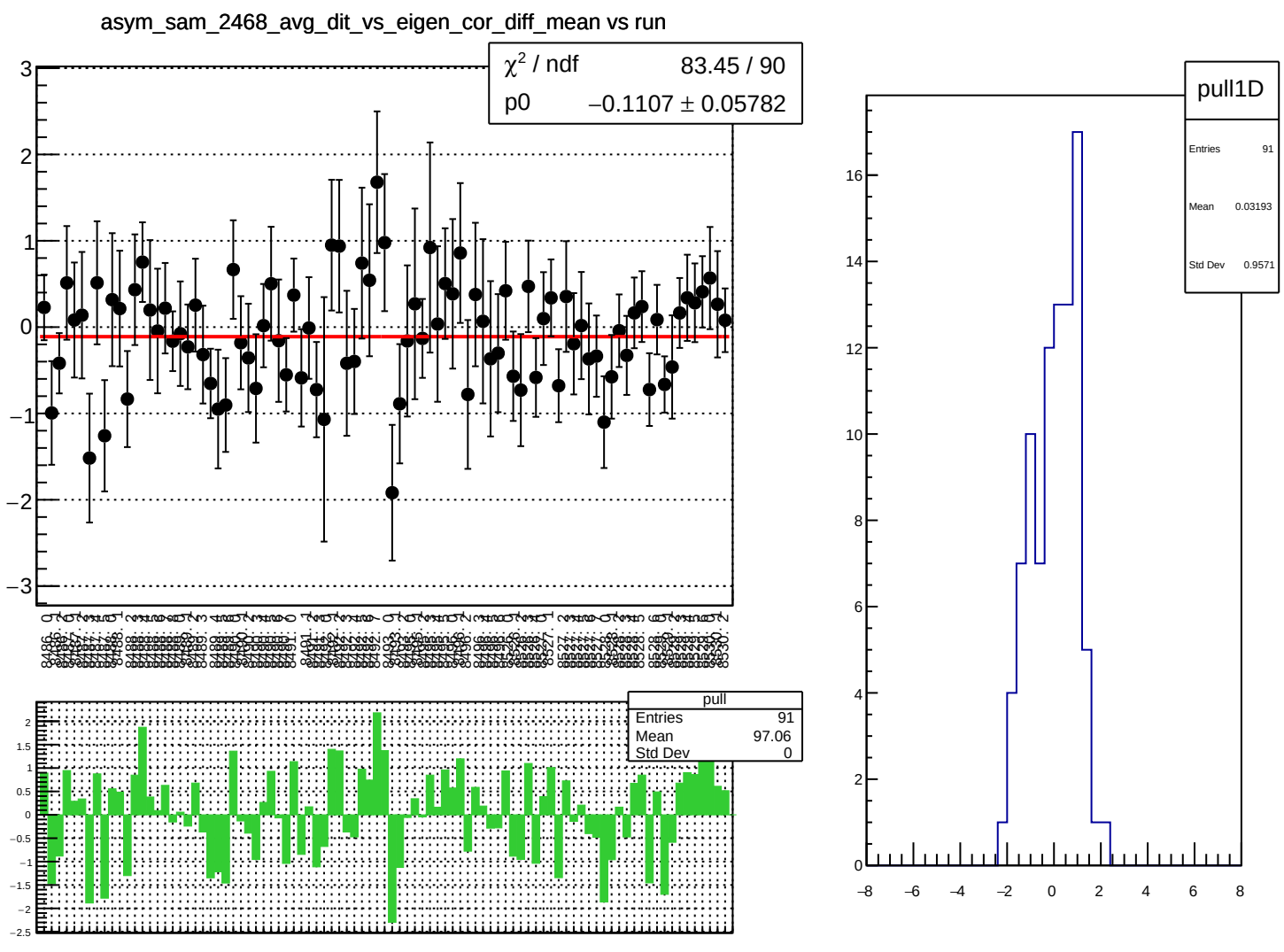

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 78.18 / 90
p0 −2.189e−14 ± 1.634e−13
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 91
Mean 207.8
Std Dev 0
2
1
0
−1
−2

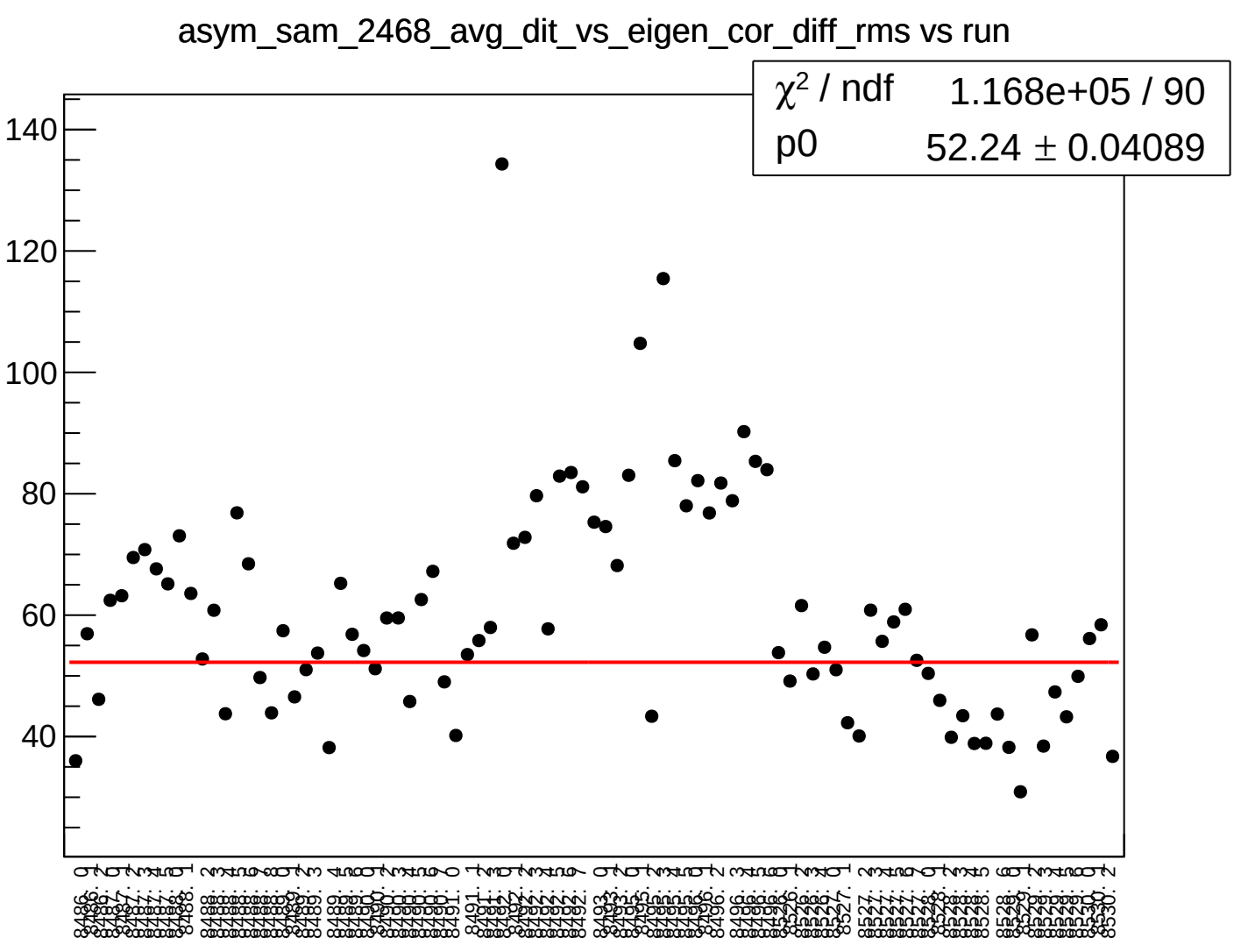

pull1D
Entries 91
Mean −0.01182
Std Dev 0.9268
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

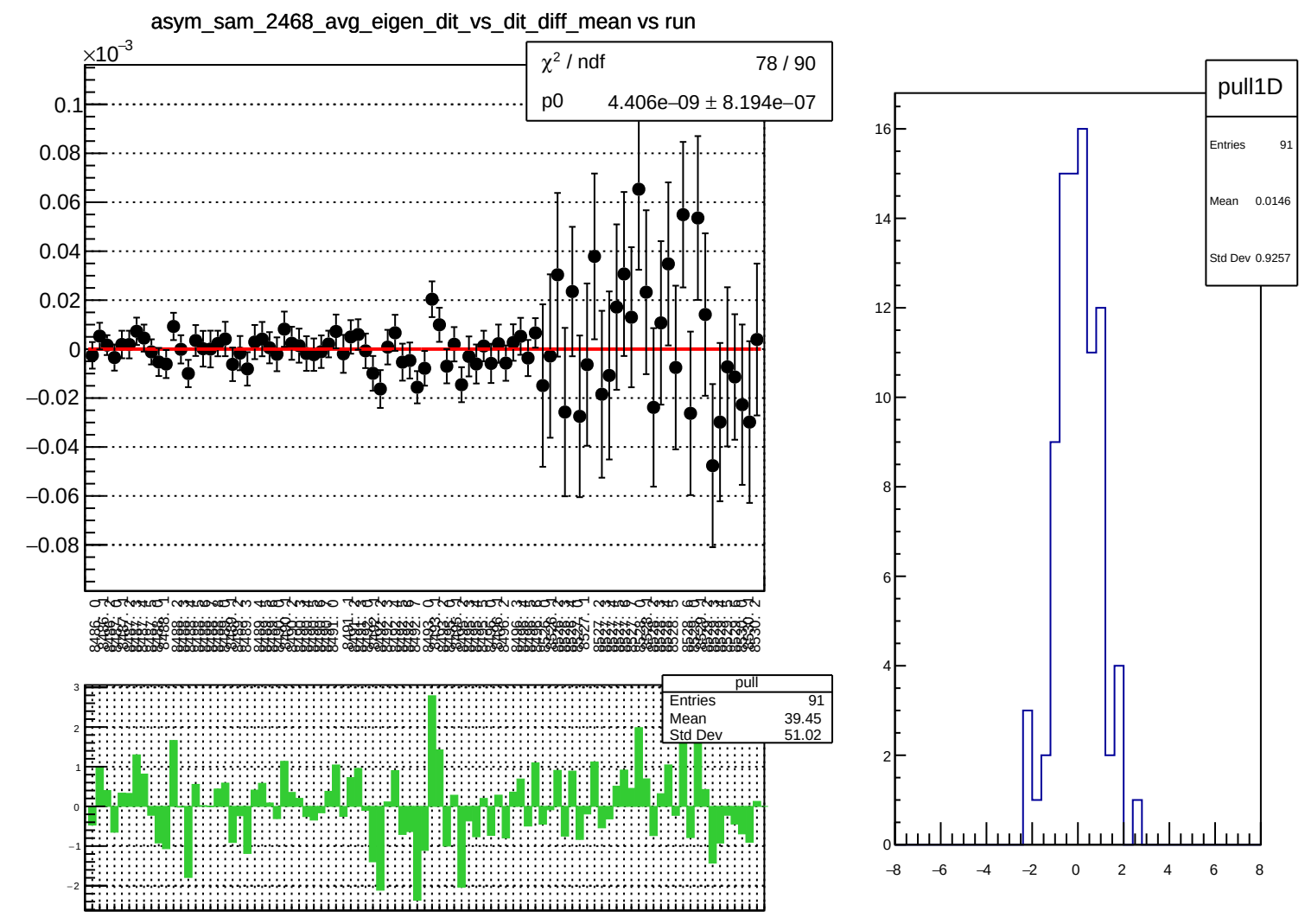

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.747e+05 / 90
p0 1.017e−10 ± 1.156e−13
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

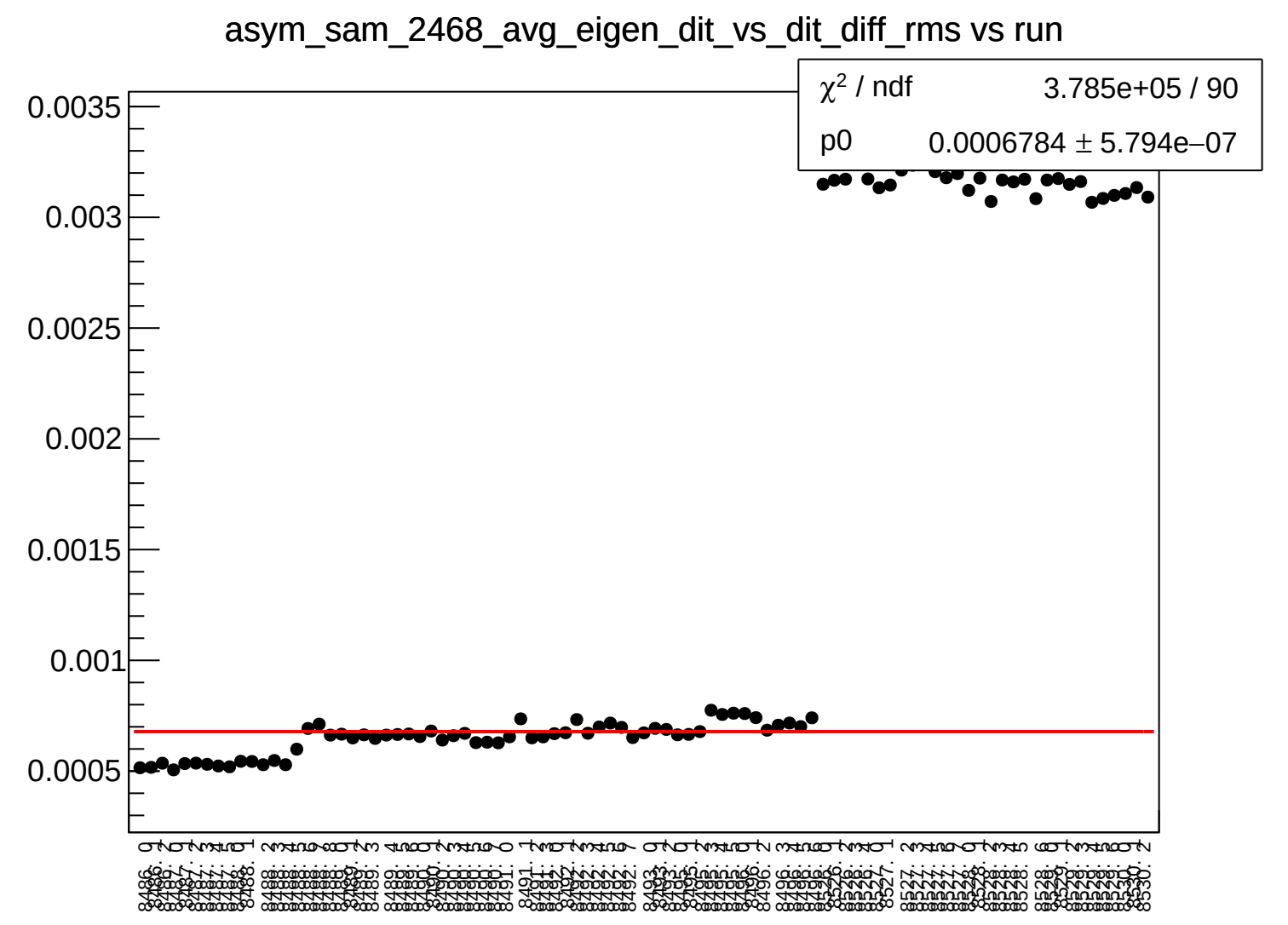

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 83.45 / 90
p0 −0.1107 ± 0.05782
pull
Entries 91
Mean 97.06
Std Dev 0
pull1D
Entries 91
Mean 0.03193
Std Dev 0.9571

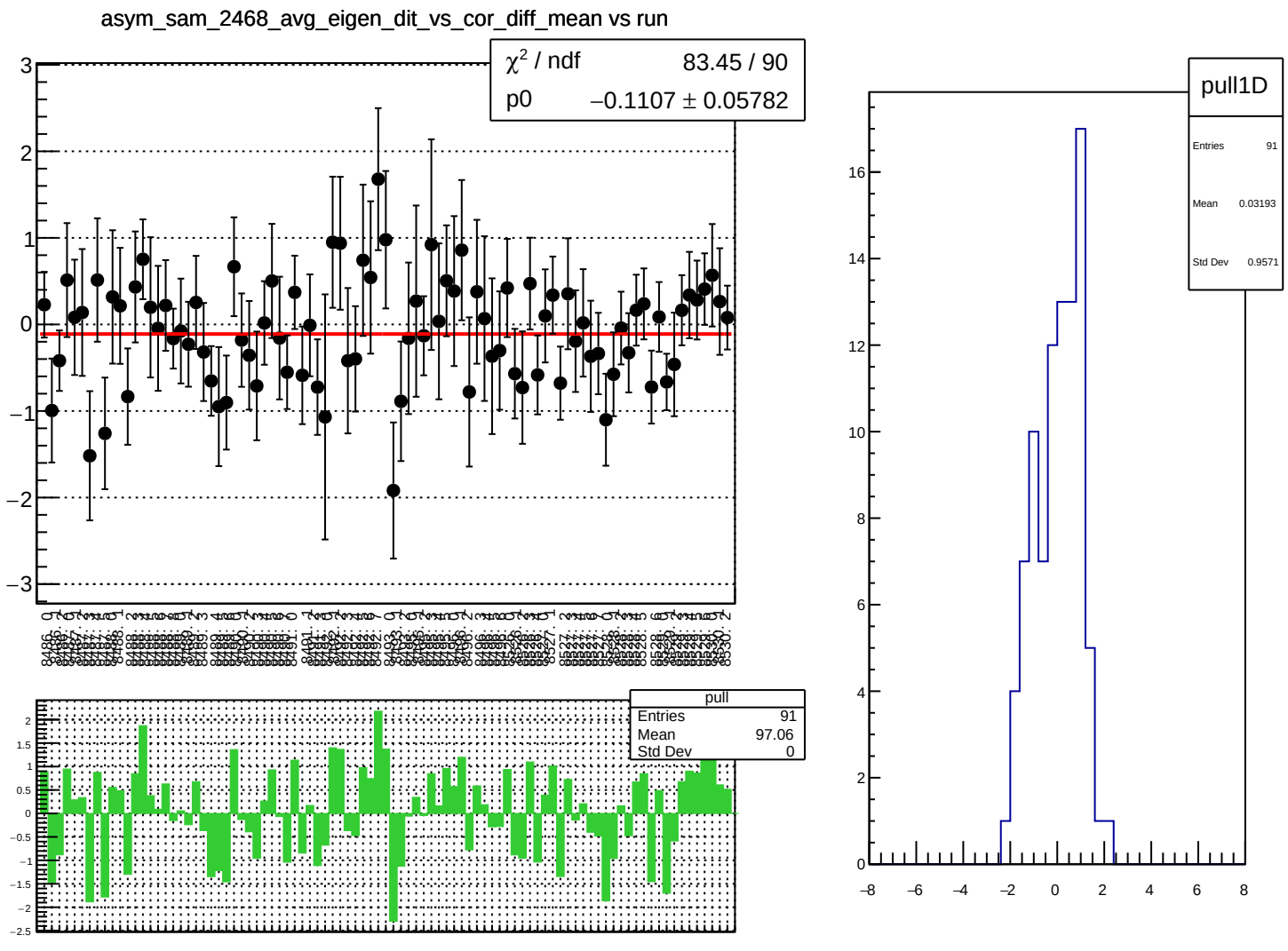

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.168e+05 / 90
p0 52.24 ± 0.04089
140
120
100
80
60
40

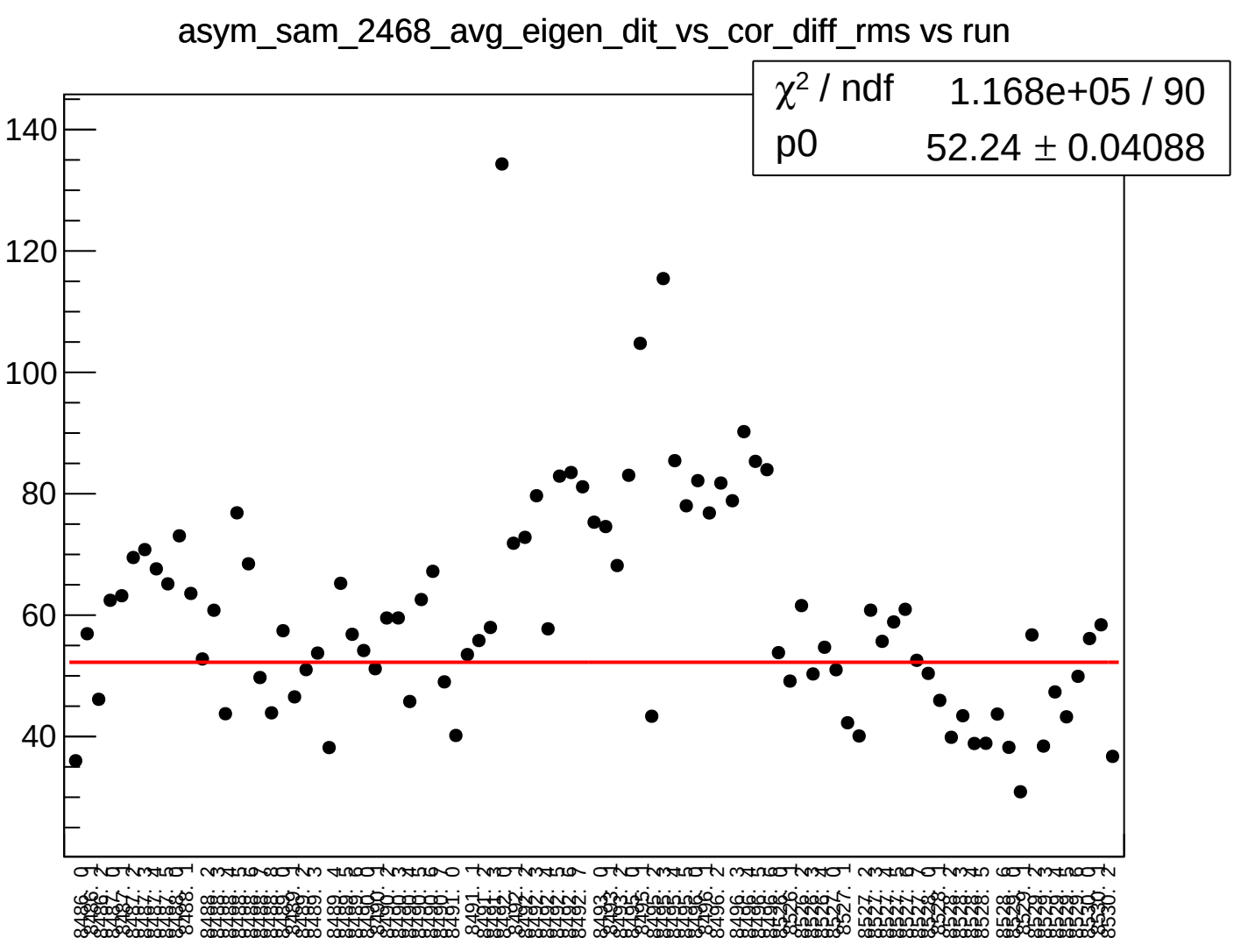

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.45 / 90
p0 −0.1107 ± 0.05782
pull
Entries 91
Mean 97.06
Std Dev 0
pull1D
Entries 91
Mean 0.03193
Std Dev 0.9571

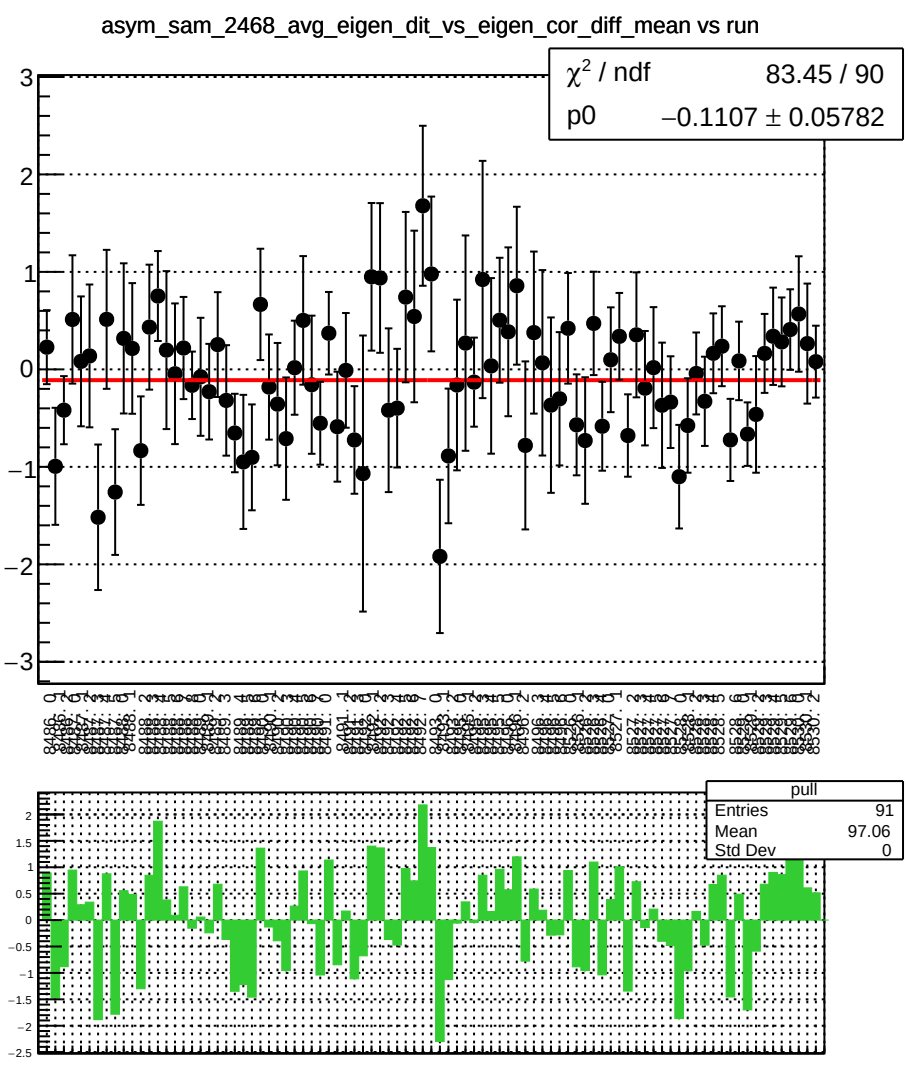

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.168e+05 / 90
p0 52.24 ± 0.04089
140
120
100
80
60
40

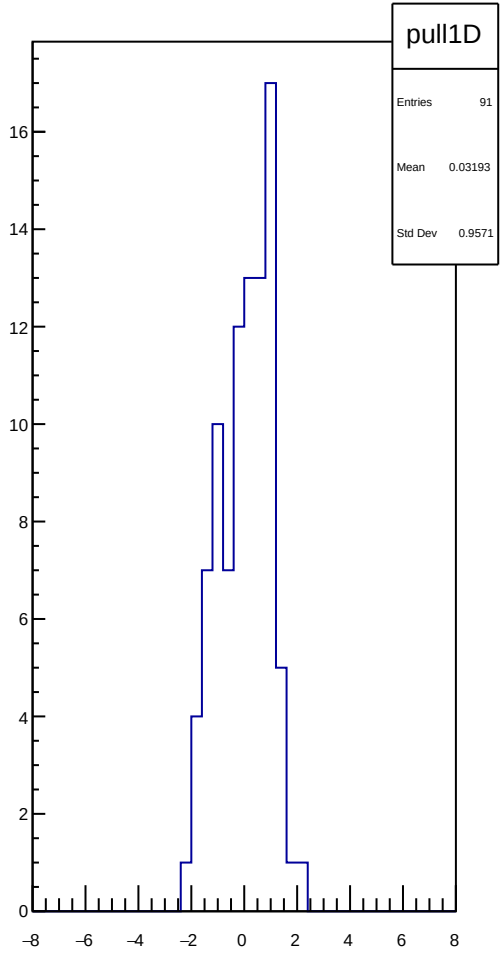

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78 / 90
p0 4.406e−09 ± 8.194e−07
pull
Entries 91
Mean 39.45
Std Dev 51.02
pull1D
Entries 91
Mean 0.0146
Std Dev 0.9257

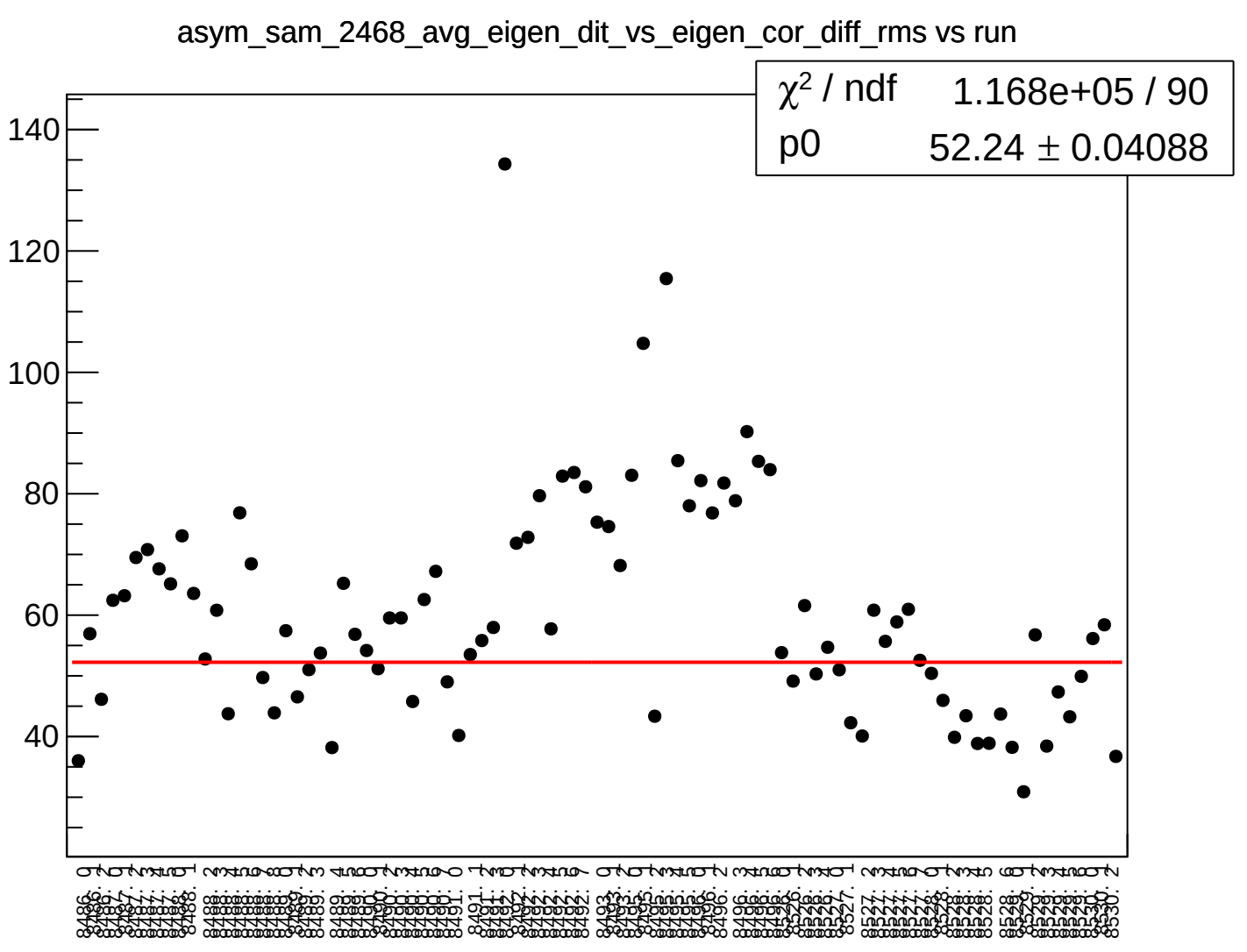

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.785e+05 / 90
p0 0.0006784 ± 5.794e−07
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005

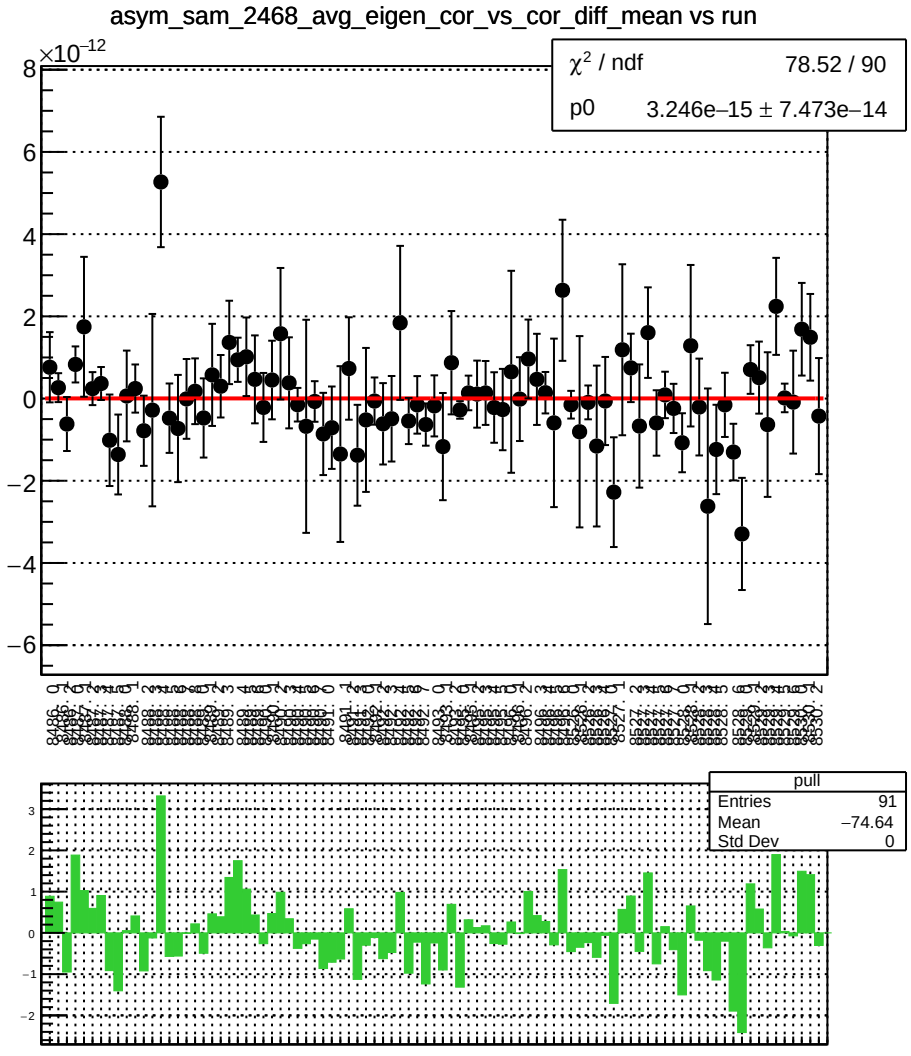

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.45 / 90
p0 −0.1107 ± 0.05782
pull
Entries 91
Mean 97.06
Std Dev 0
pull1D
Entries 91
Mean 0.03193
Std Dev 0.9571

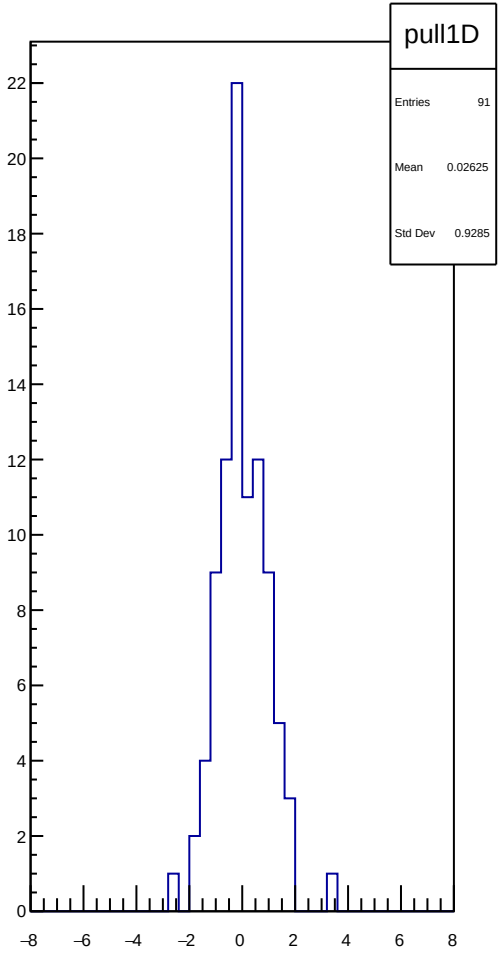

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.168e+05 / 90
p0 52.24 ± 0.04088
140
120
100
80
60
40

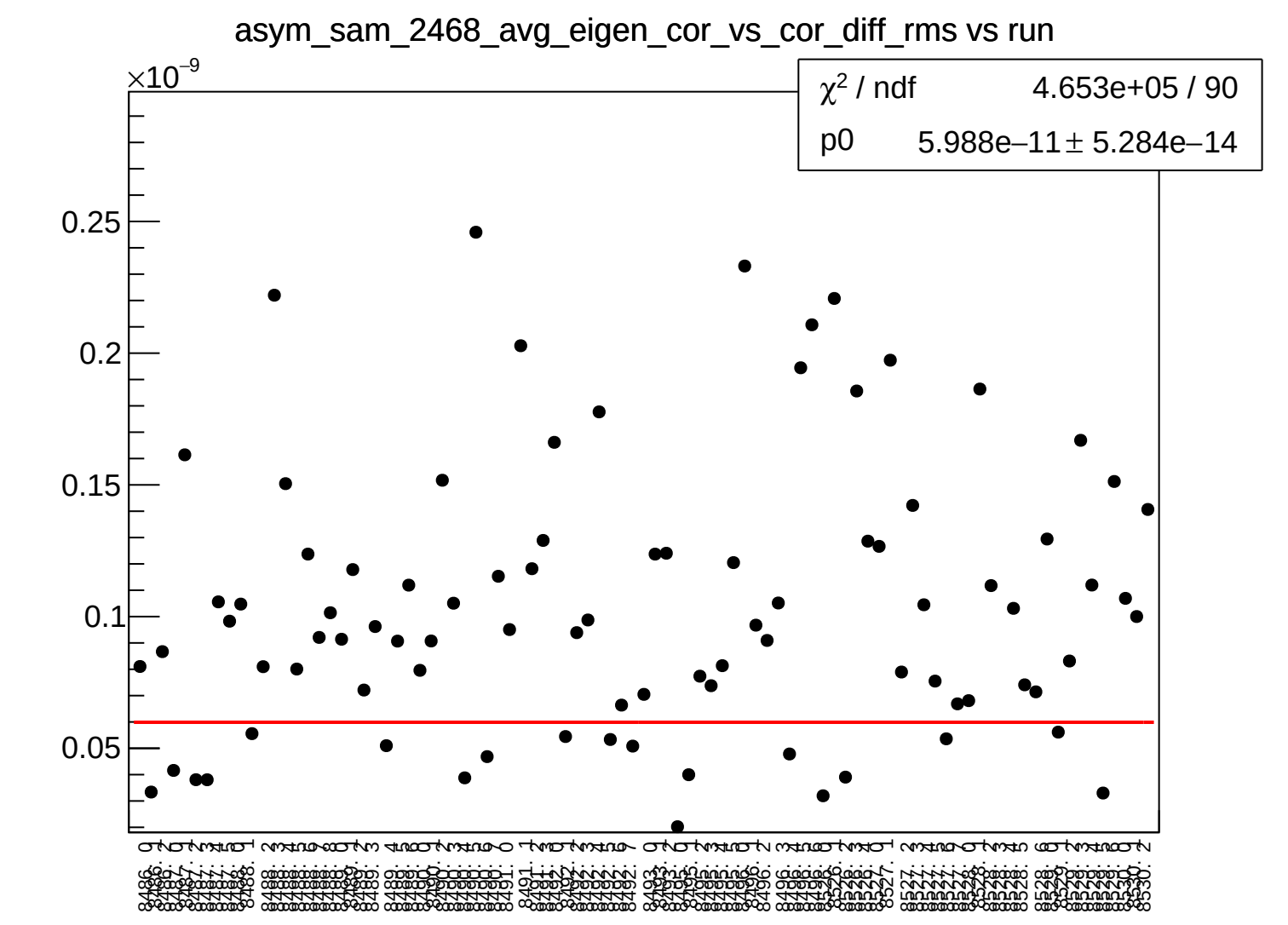

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.45 / 90
p0 −0.1107 ± 0.05782
pull
Entries 91
Mean 97.06
Std Dev 0

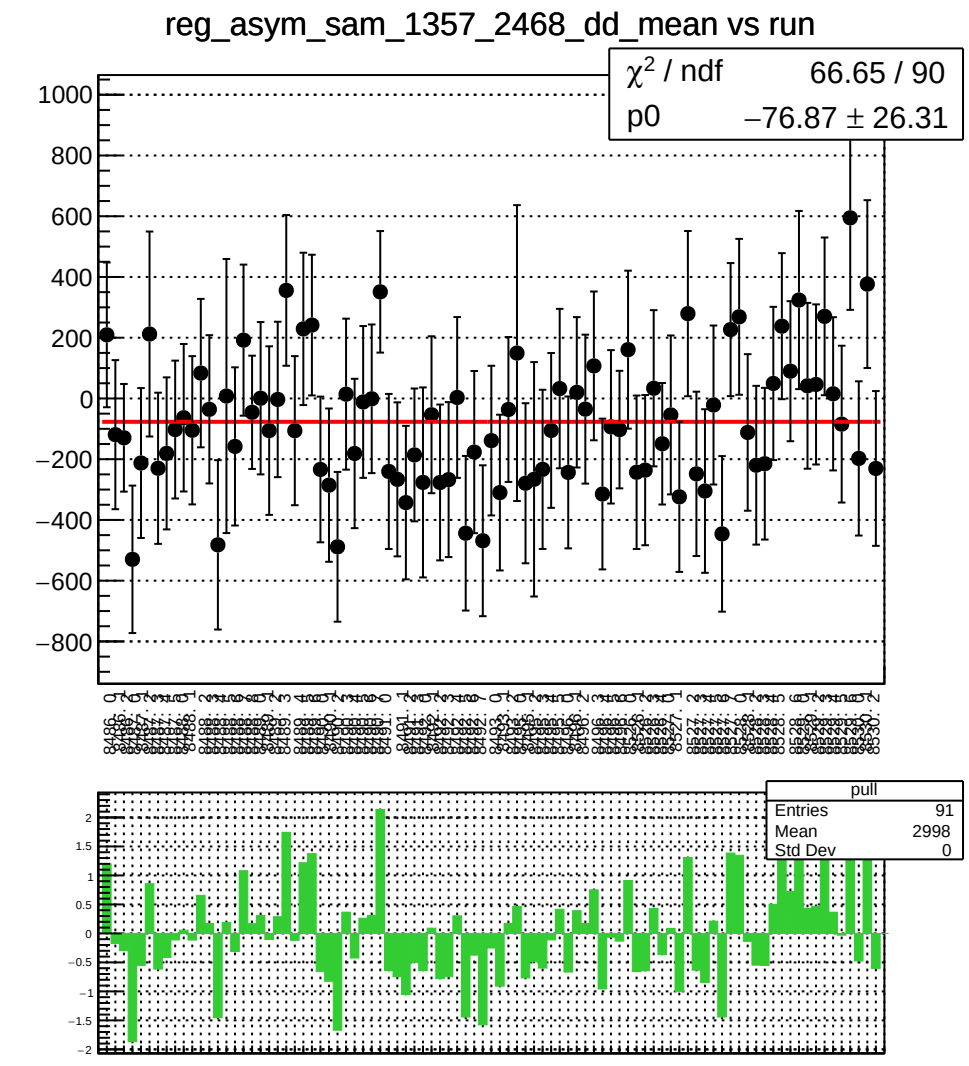

pull1D
Entries 91
Mean 0.03193
Std Dev 0.9571

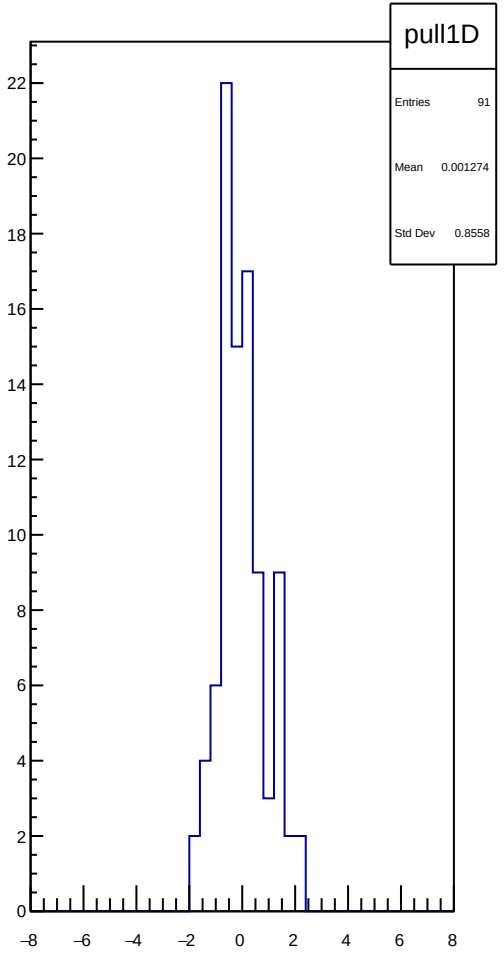

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.168e+05 / 90
p0 52.24 ± 0.04088
140
120
100
80
60
40

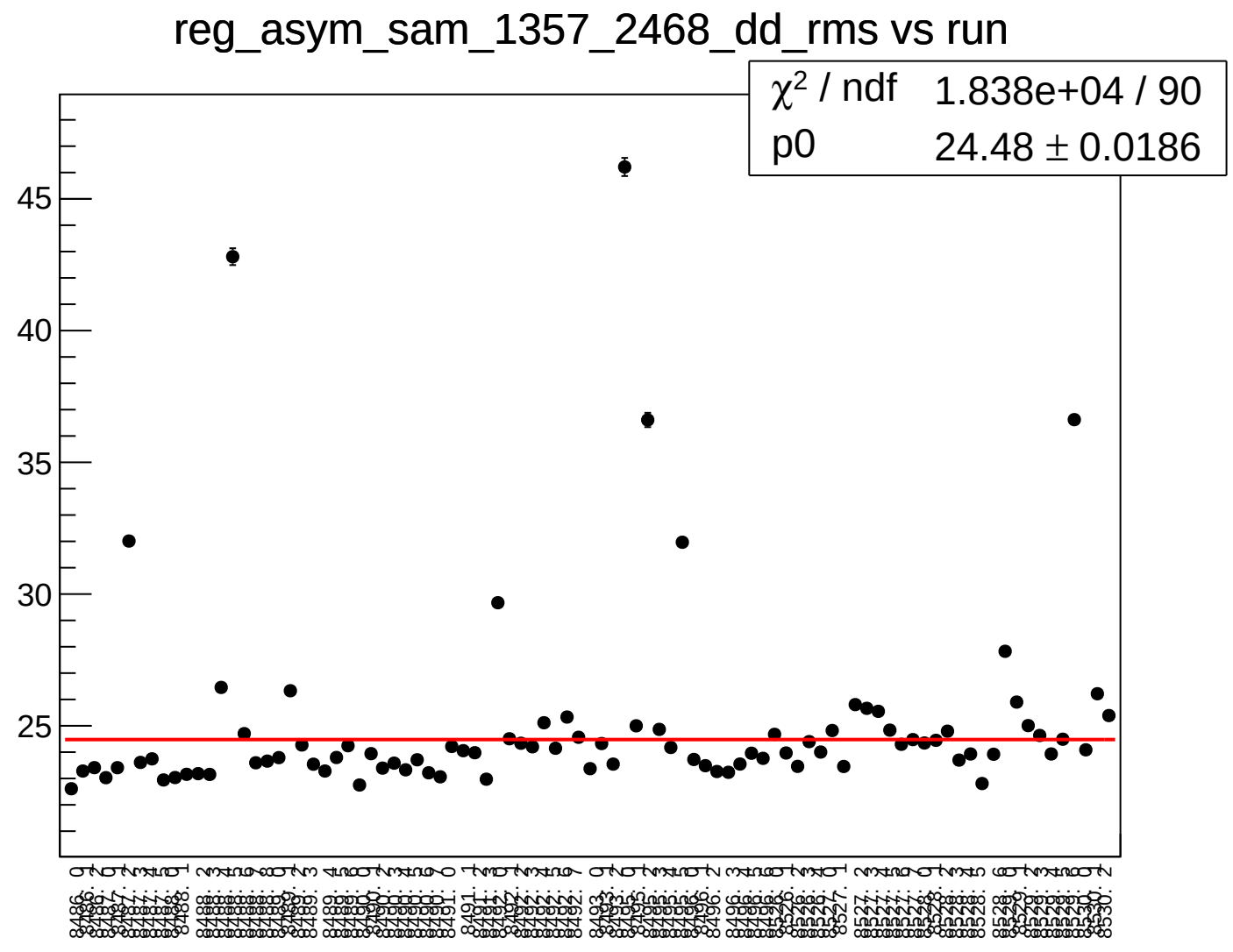

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.52 / 90
p0 3.246e−15 ± 7.473e−14
pull
Entries 91
Mean −74.64
Std Dev 0

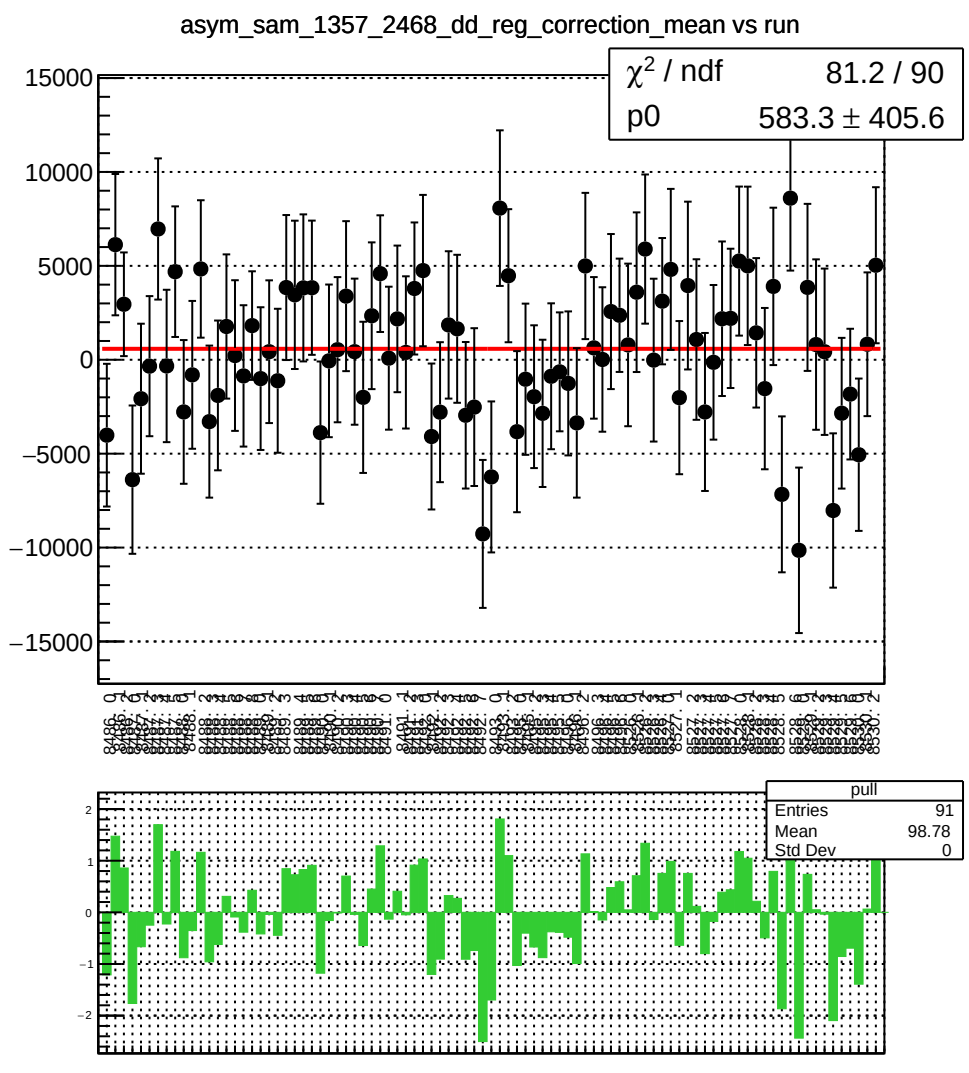

pull1D
Entries 91
Mean 0.02625
Std Dev 0.9285

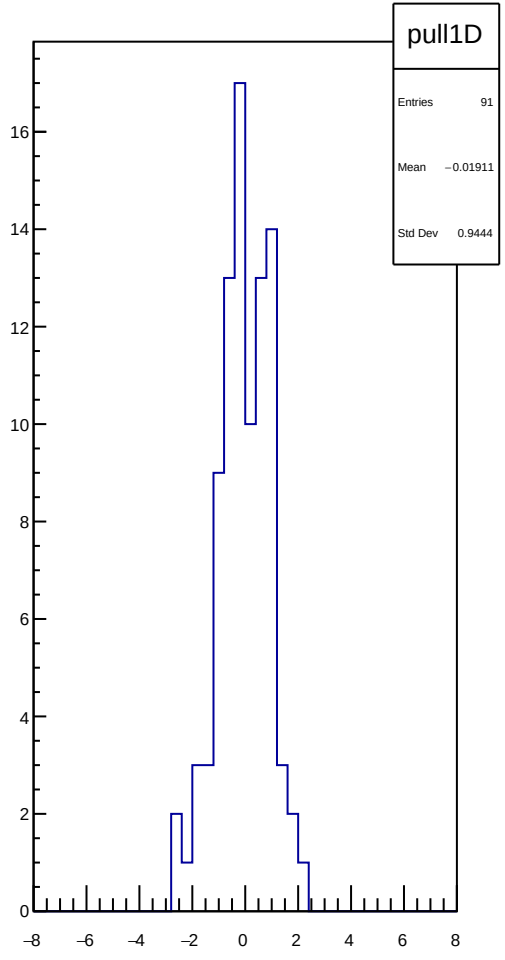

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.653e+05 / 90
p0 5.988e−11 ± 5.284e−14
0.25
0.2
0.15
0.1
0.05

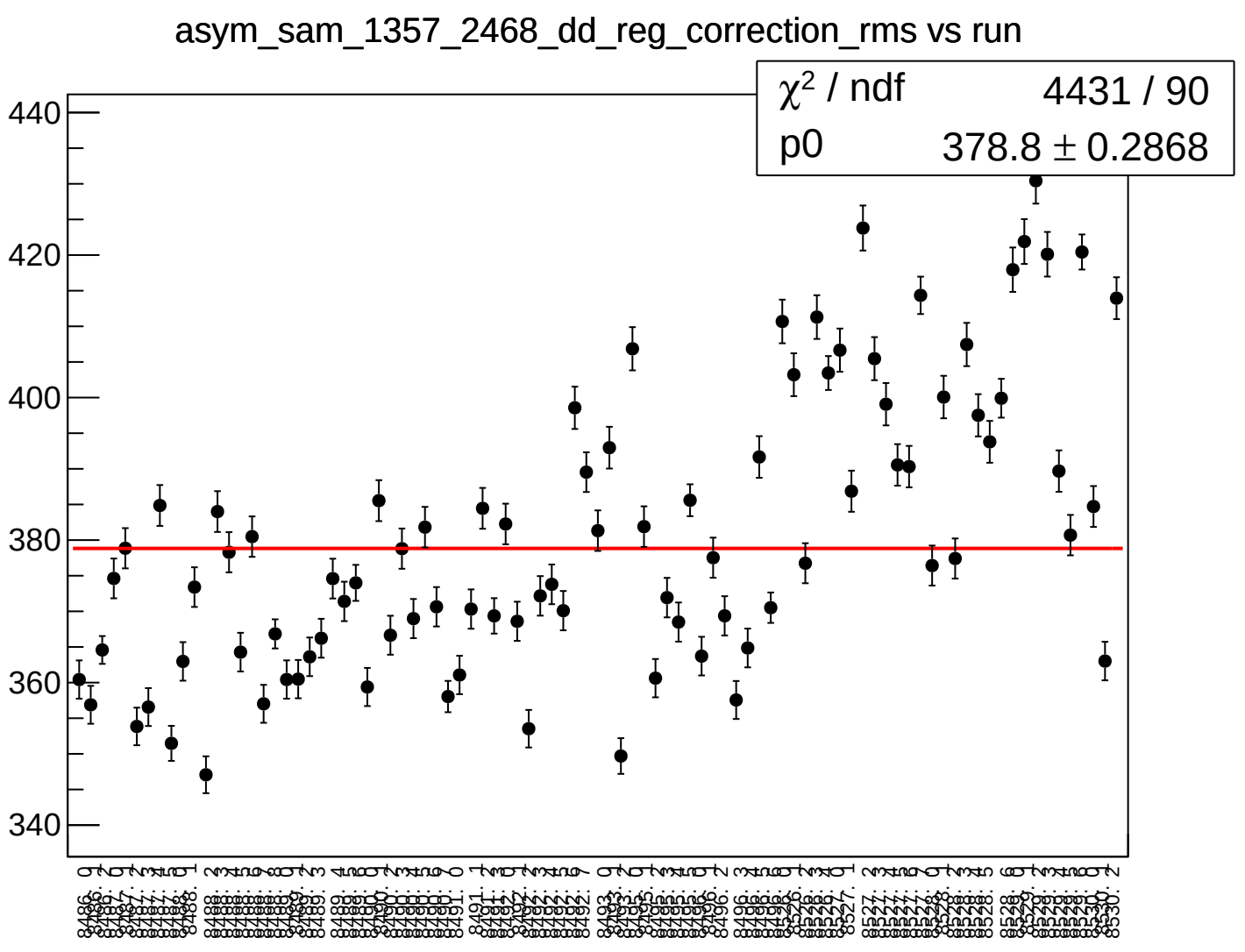

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 66.65 / 90
p0 −76.87 ± 26.31
pull
Entries 91
Mean 2998
Std Dev 0

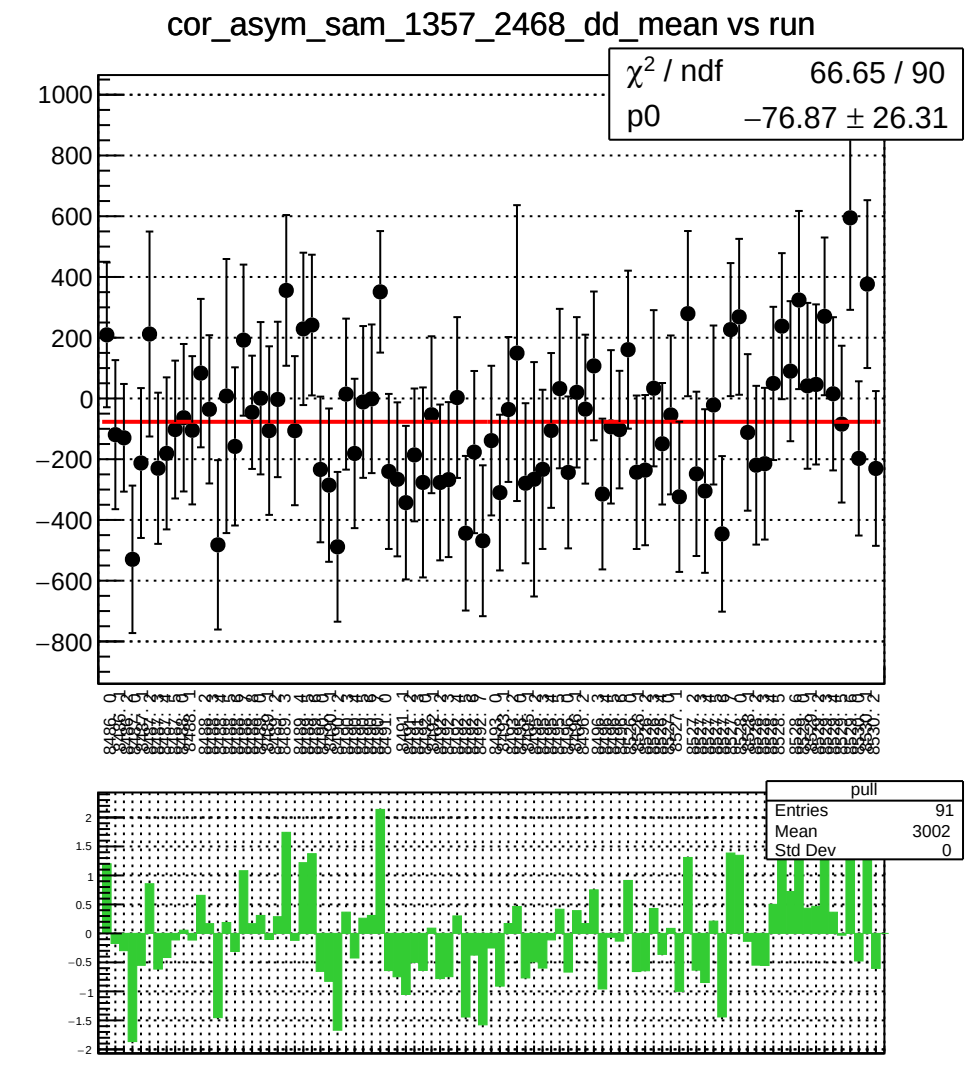

pull1D
Entries 91
Mean 0.001274
Std Dev 0.8558

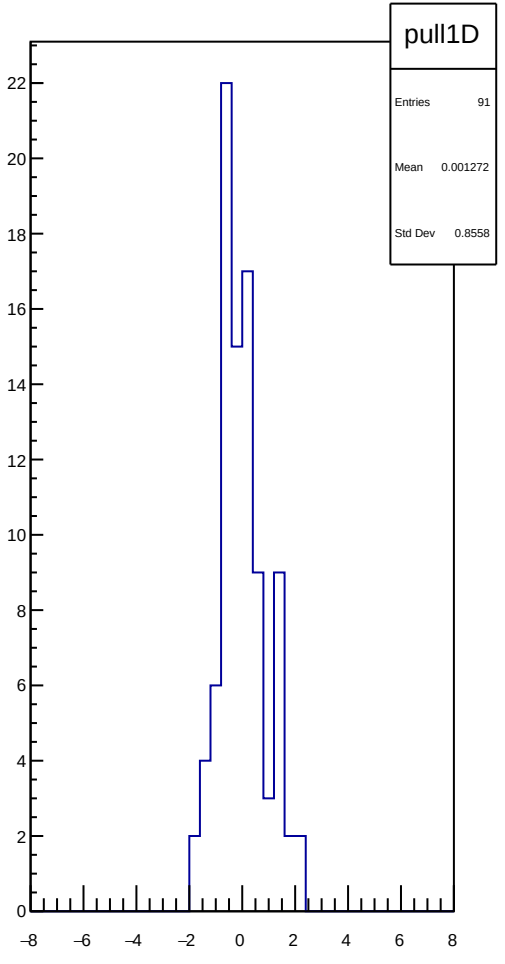

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.838e+04 / 90
p0 24.48 ± 0.0186
45
40
35
30
25

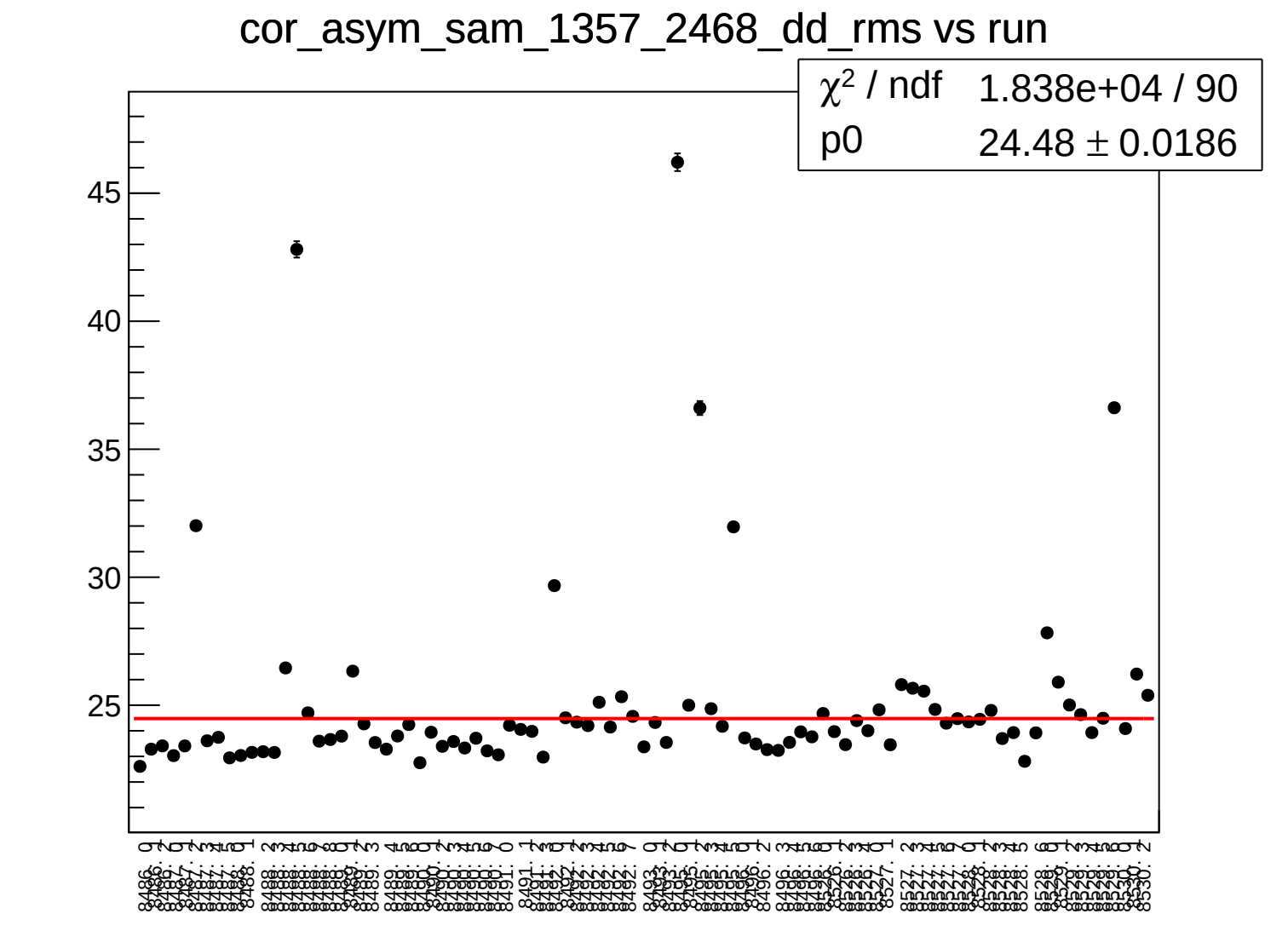

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 81.2 / 90
p0 583.3 ± 405.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 98.78
Std Dev 0
2
1
0
−1
−2

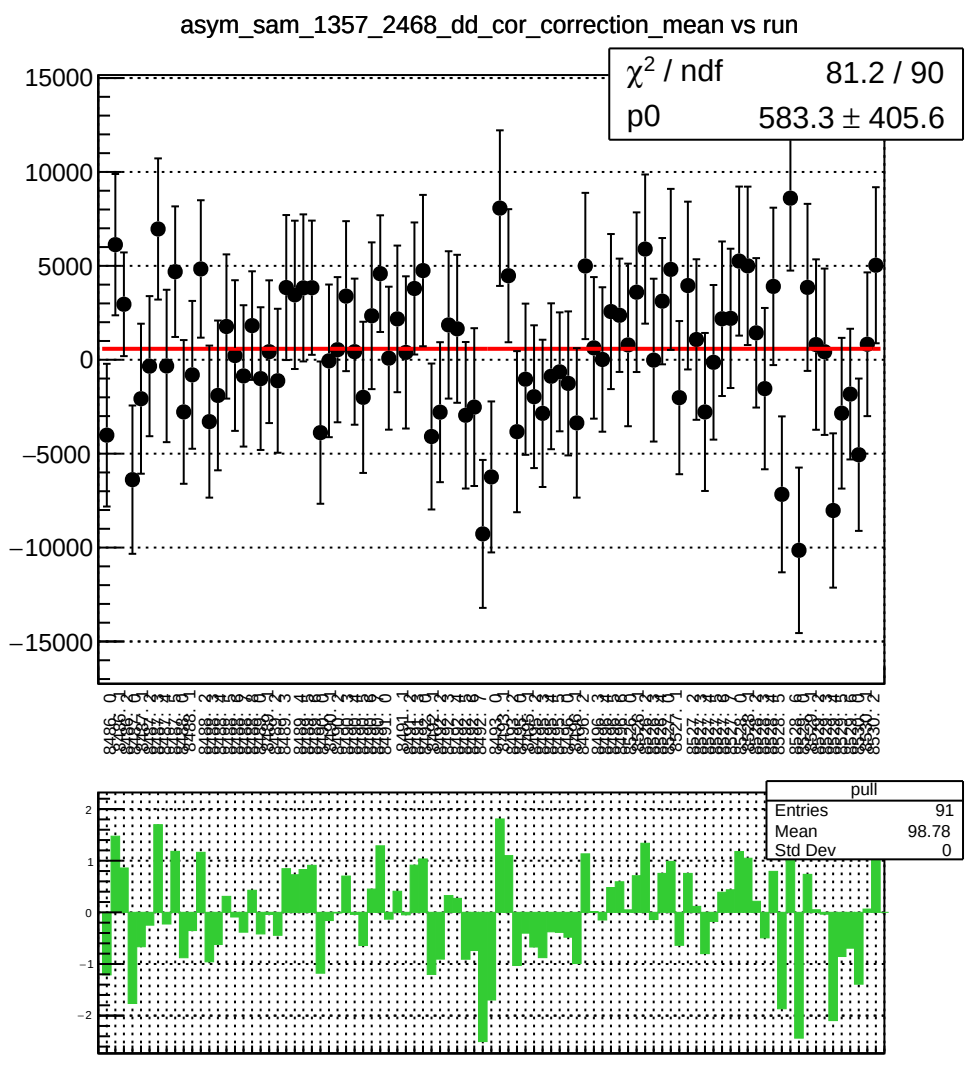

pull1D
Entries 91
Mean −0.01911
Std Dev 0.9444
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

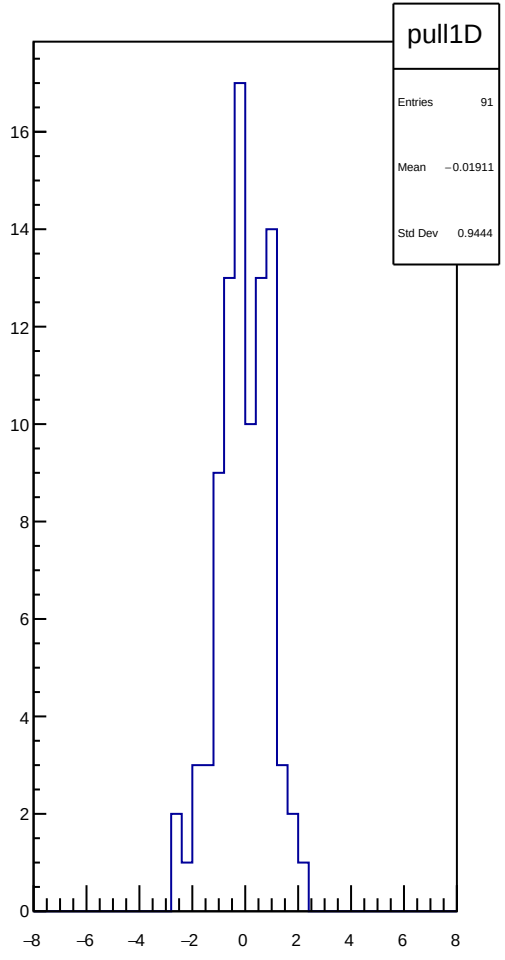

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 4431 / 90
p0 378.8 ± 0.2868
440
420
400
380
360
340

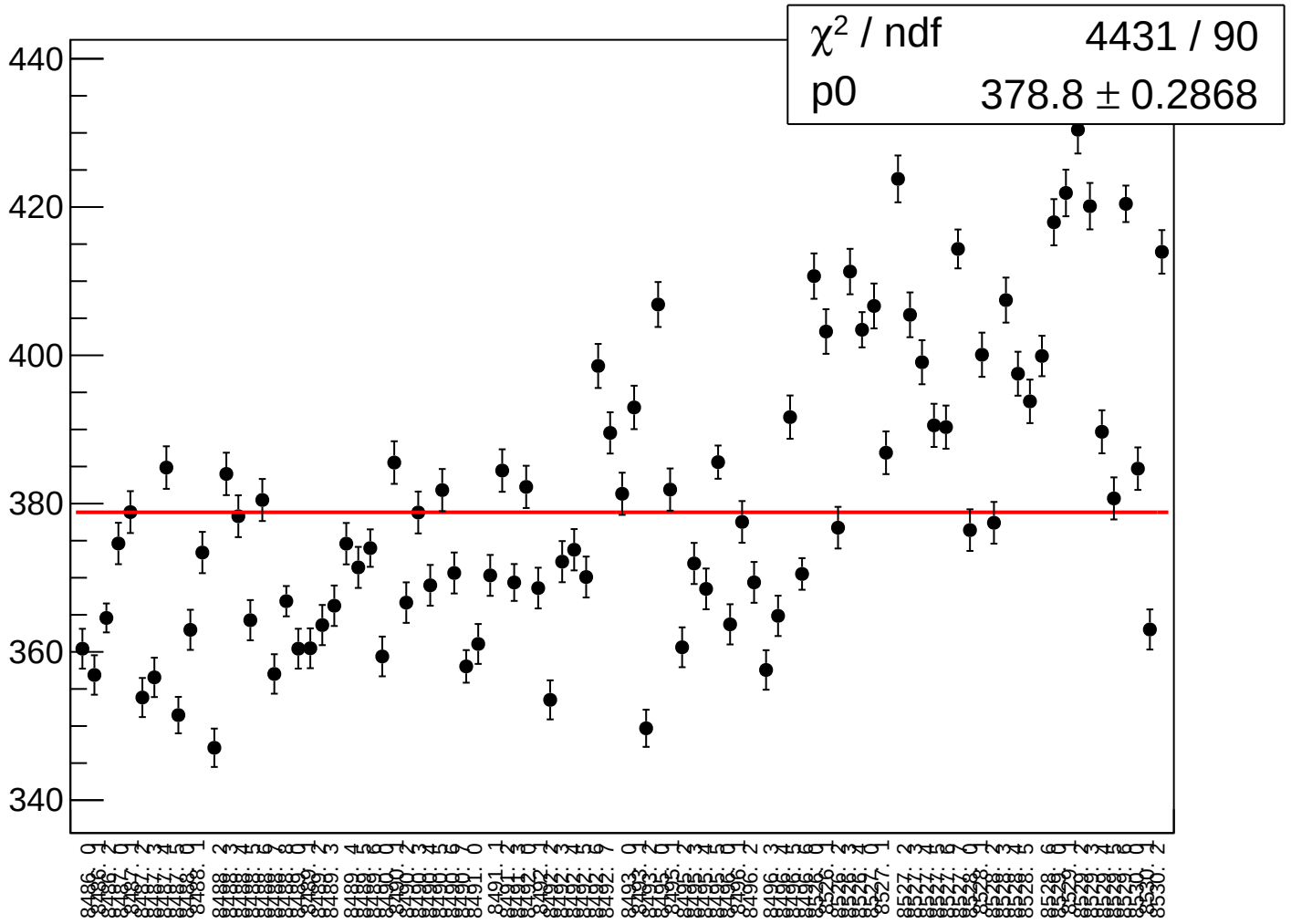

cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 66.65 / 90
p0 −76.87 ± 26.31
pull
Entries 91
Mean 3002
Std Dev 0

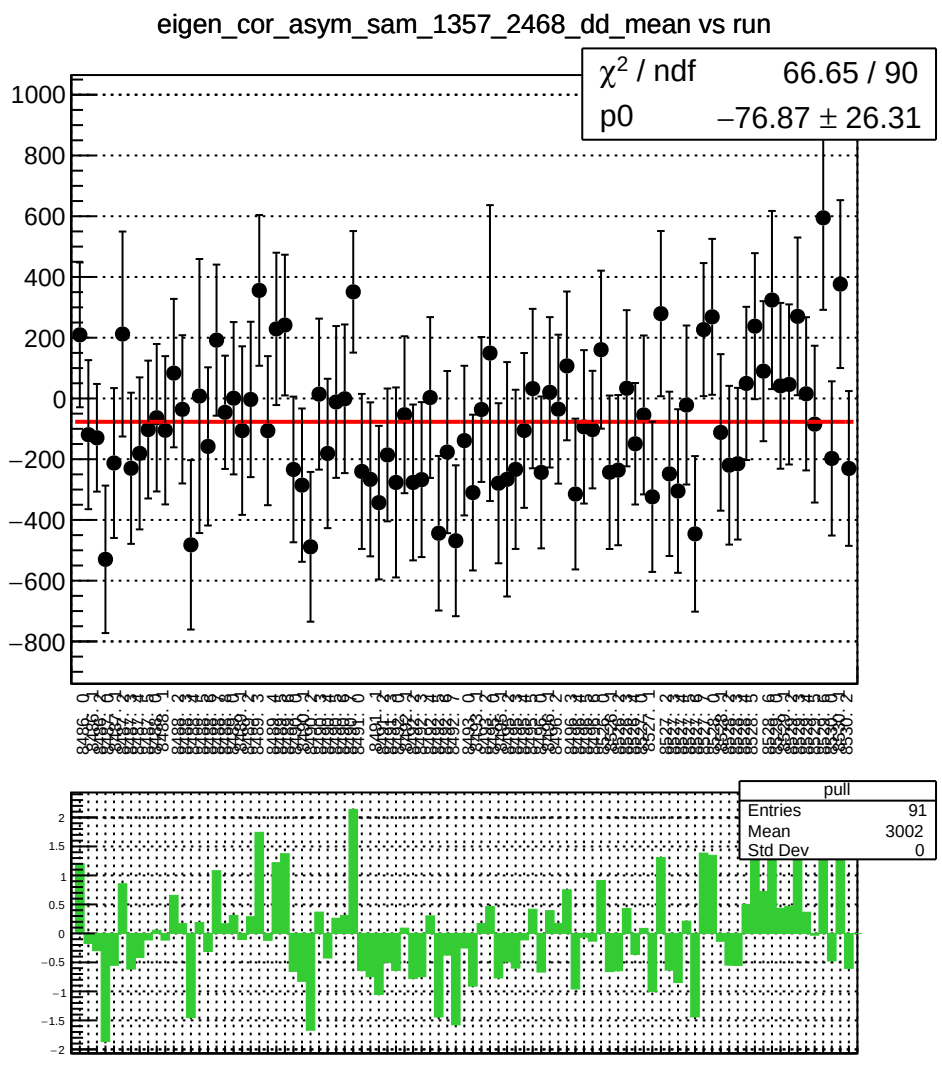

pull1D
Entries 91
Mean 0.001272
Std Dev 0.8558

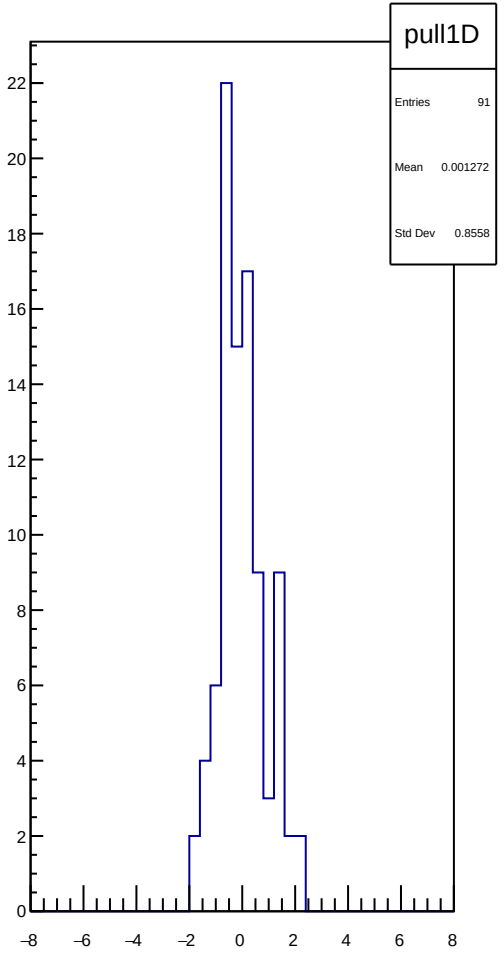

cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.838e+04 / 90
p0 24.48 ± 0.0186
45
40
35
30
25

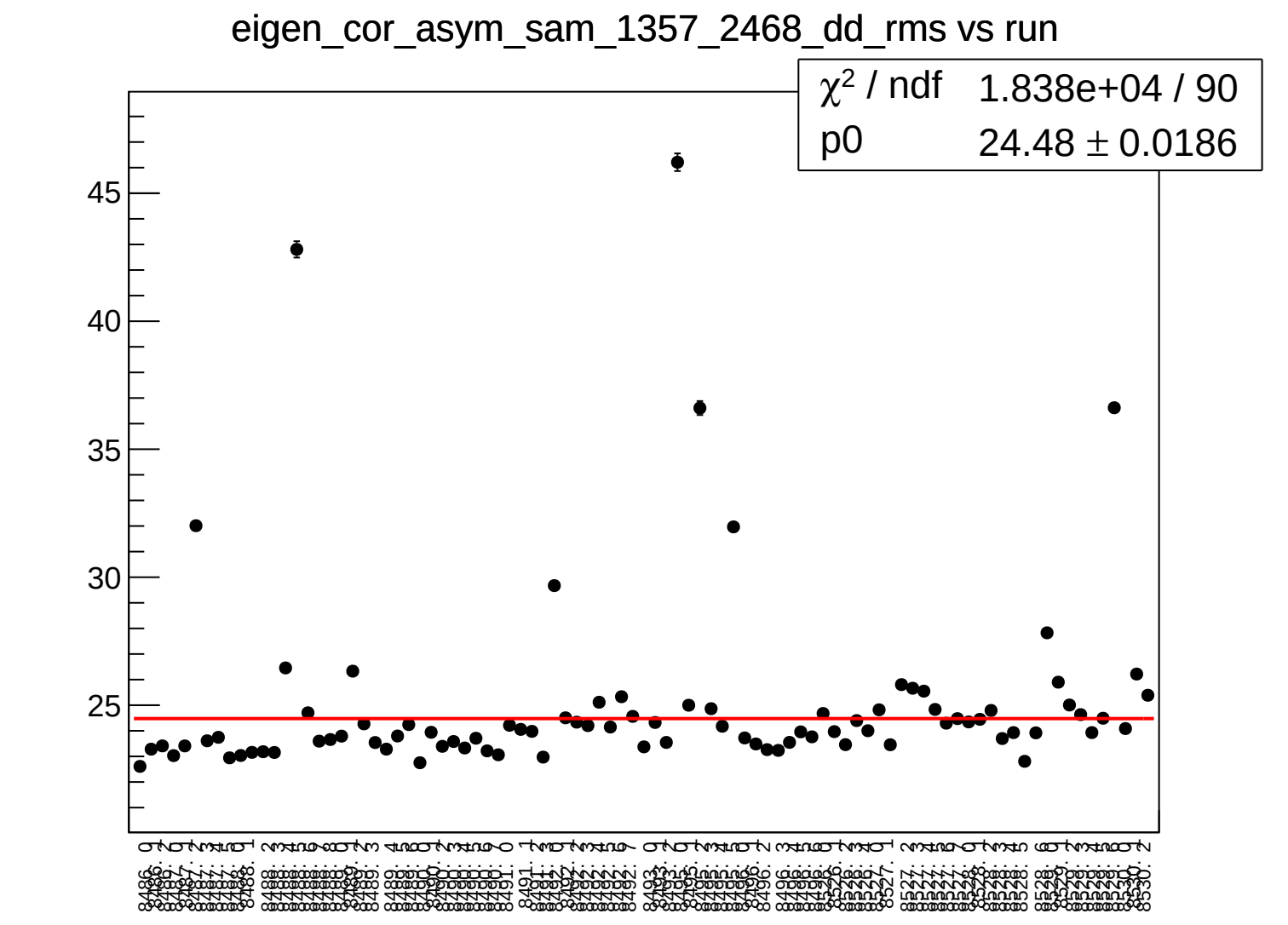

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 81.2 / 90
p0 583.3 ± 405.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 98.78
Std Dev 0
2
1
0
−1
−2

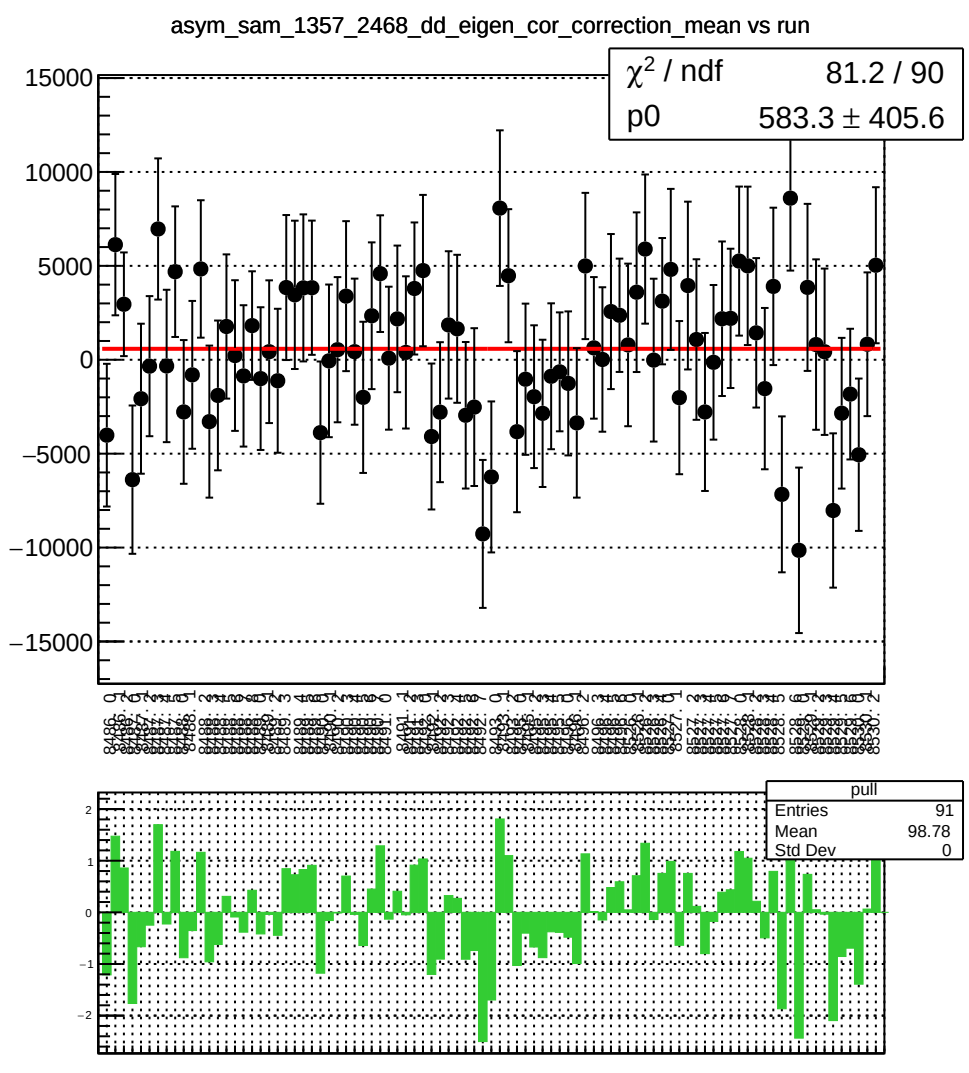

pull1D
Entries 91
Mean −0.01911
Std Dev 0.9444
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

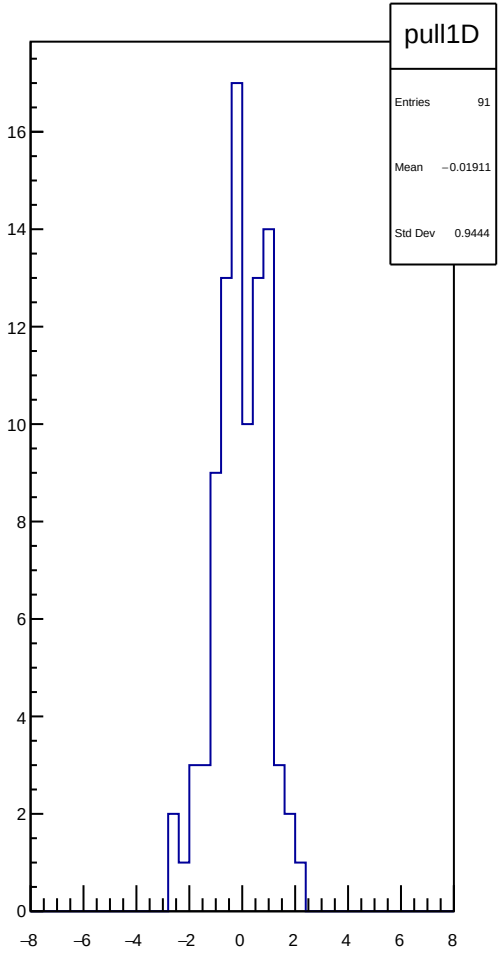

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 4431 / 90
p0 378.8 ± 0.2868
440
420
400
380
360
340

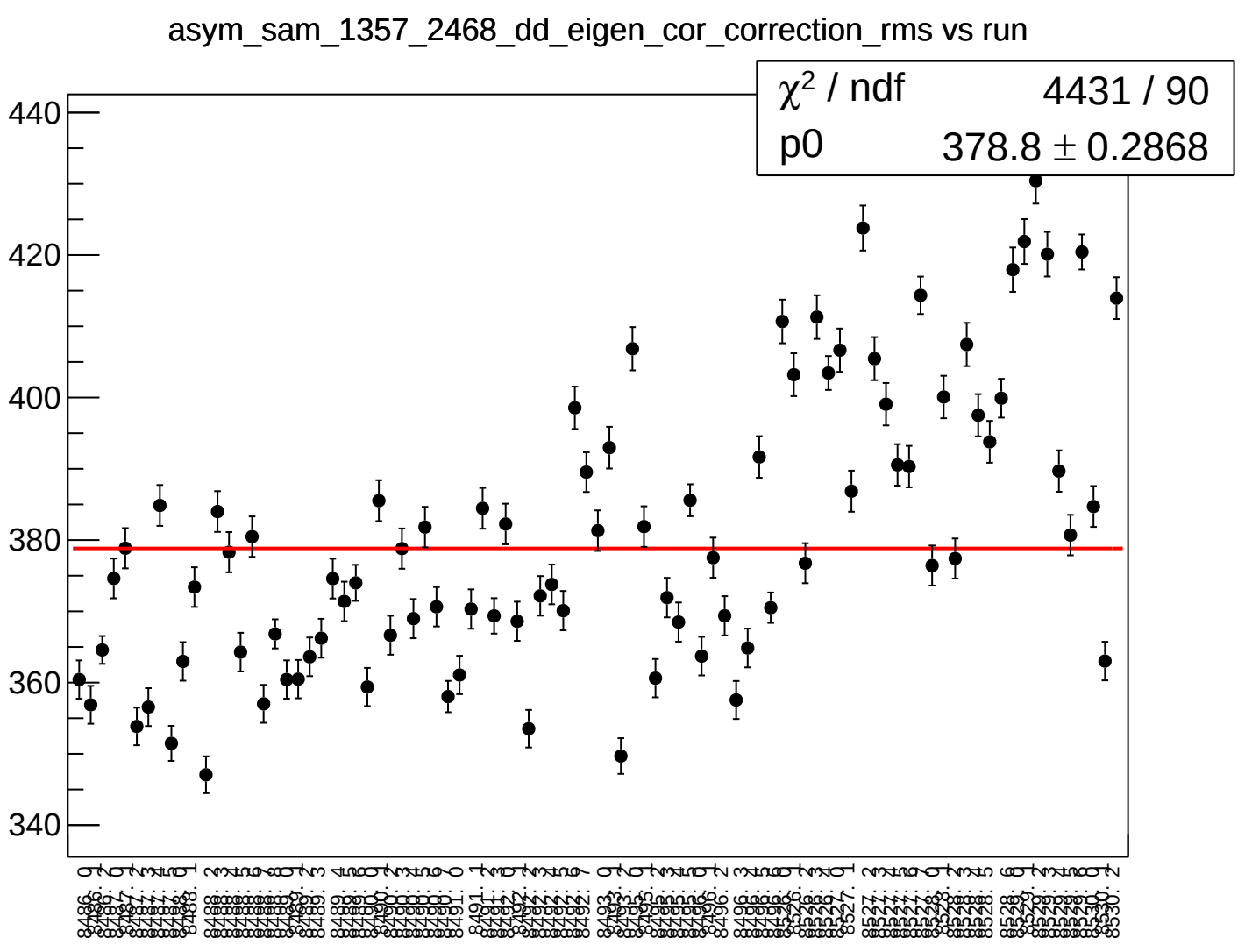

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 66.65 / 90
p0 −76.87 ± 26.31
pull
Entries 91
Mean 3002
Std Dev 0

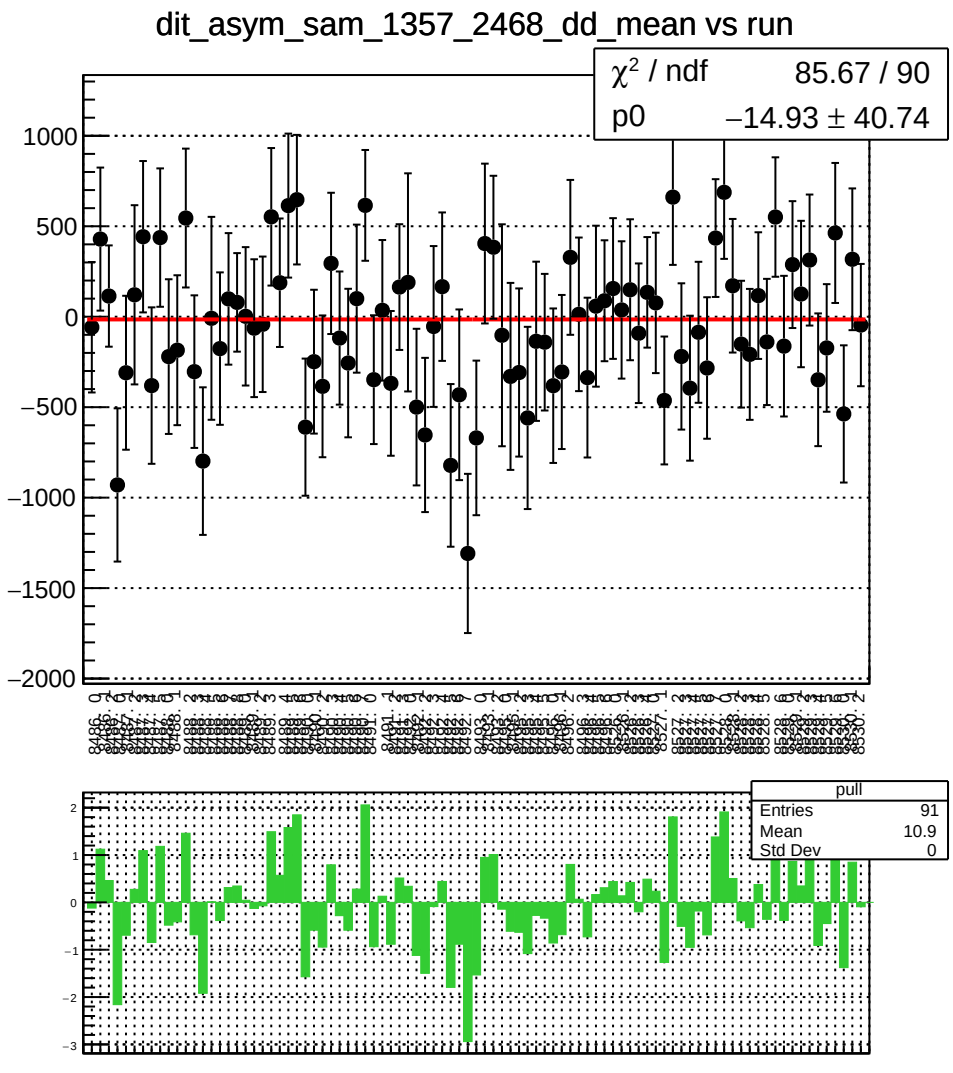

pull1D
Entries 91
Mean 0.001272
Std Dev 0.8558

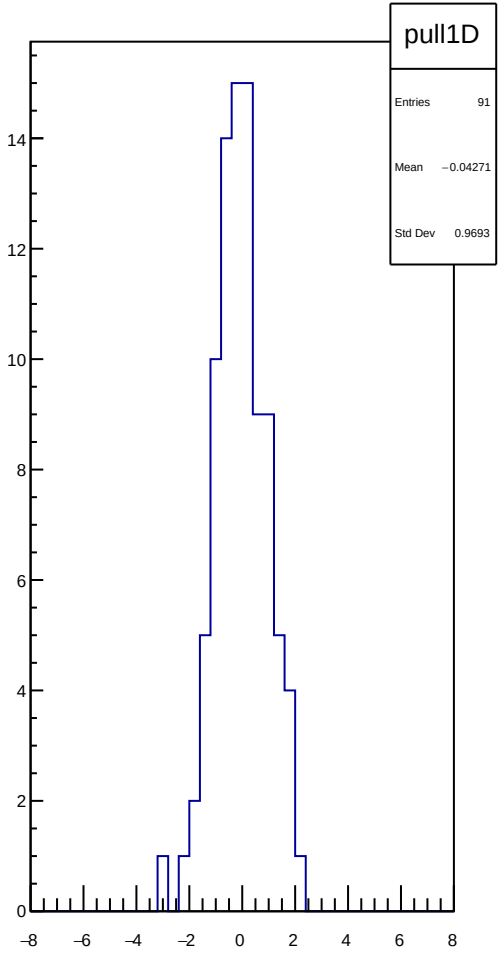

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.838e+04 / 90
p0 24.48 ± 0.0186
45
40
35
30
25

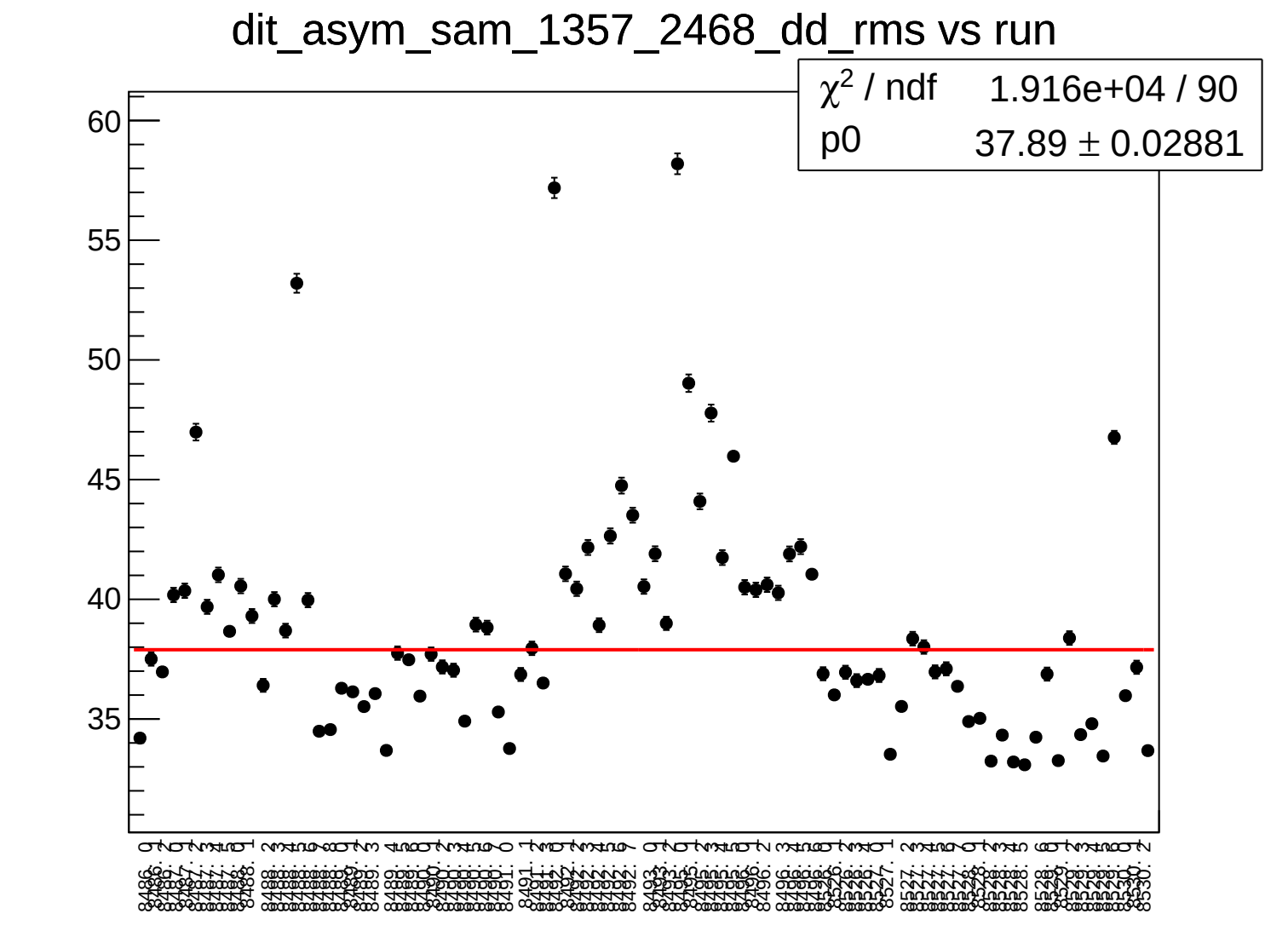

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 81.2 / 90
p0 583.3 ± 405.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 98.78
Std Dev 0
2
1
0
−1
−2

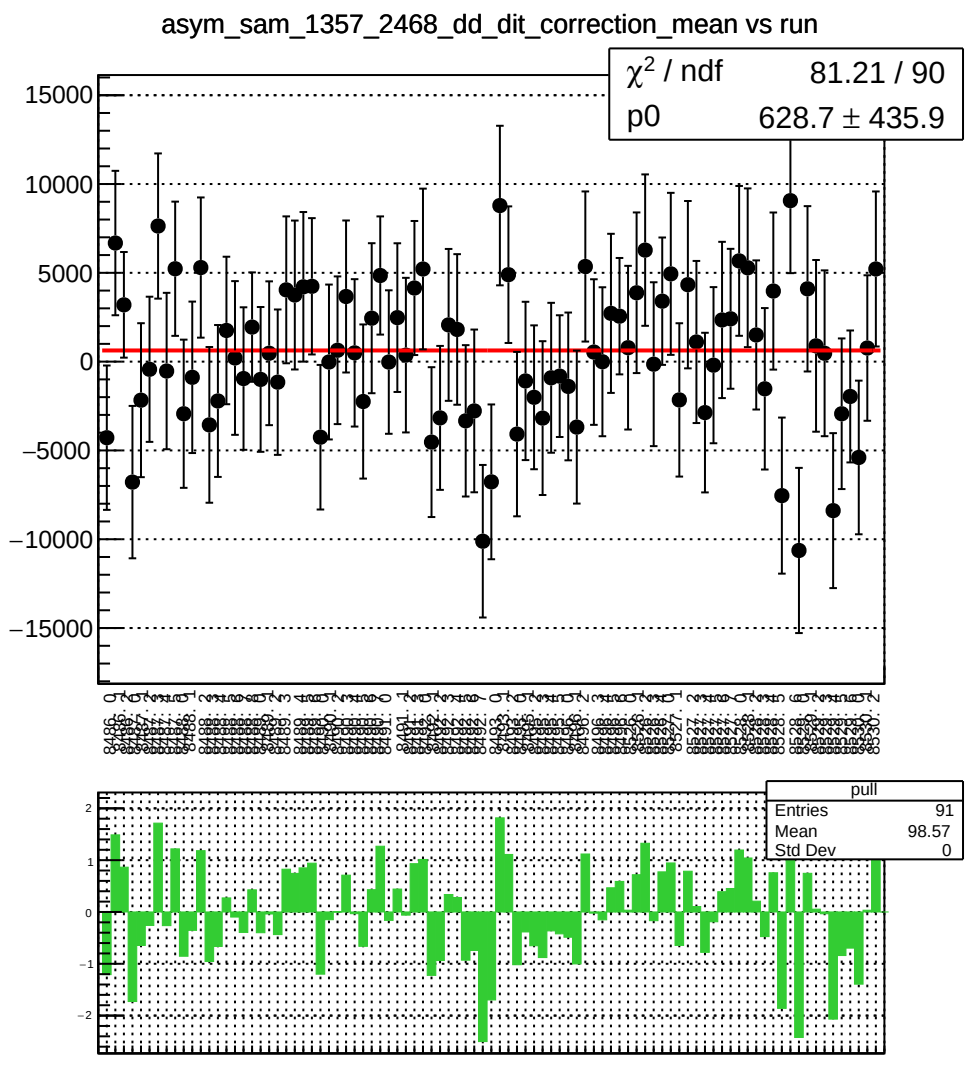

pull1D
Entries 91
Mean −0.01911
Std Dev 0.9444
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

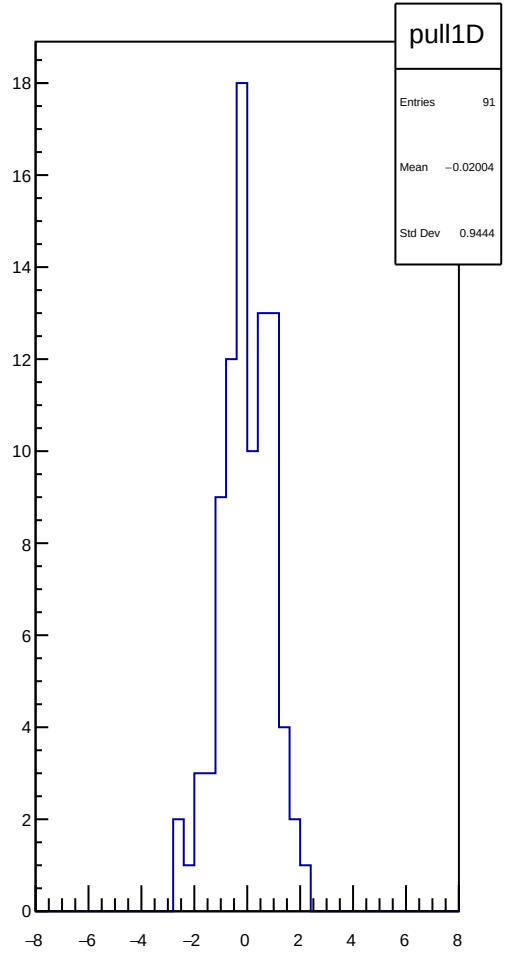

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 4431 / 90
p0 378.8 ± 0.2868
440
420
400
380
360
340

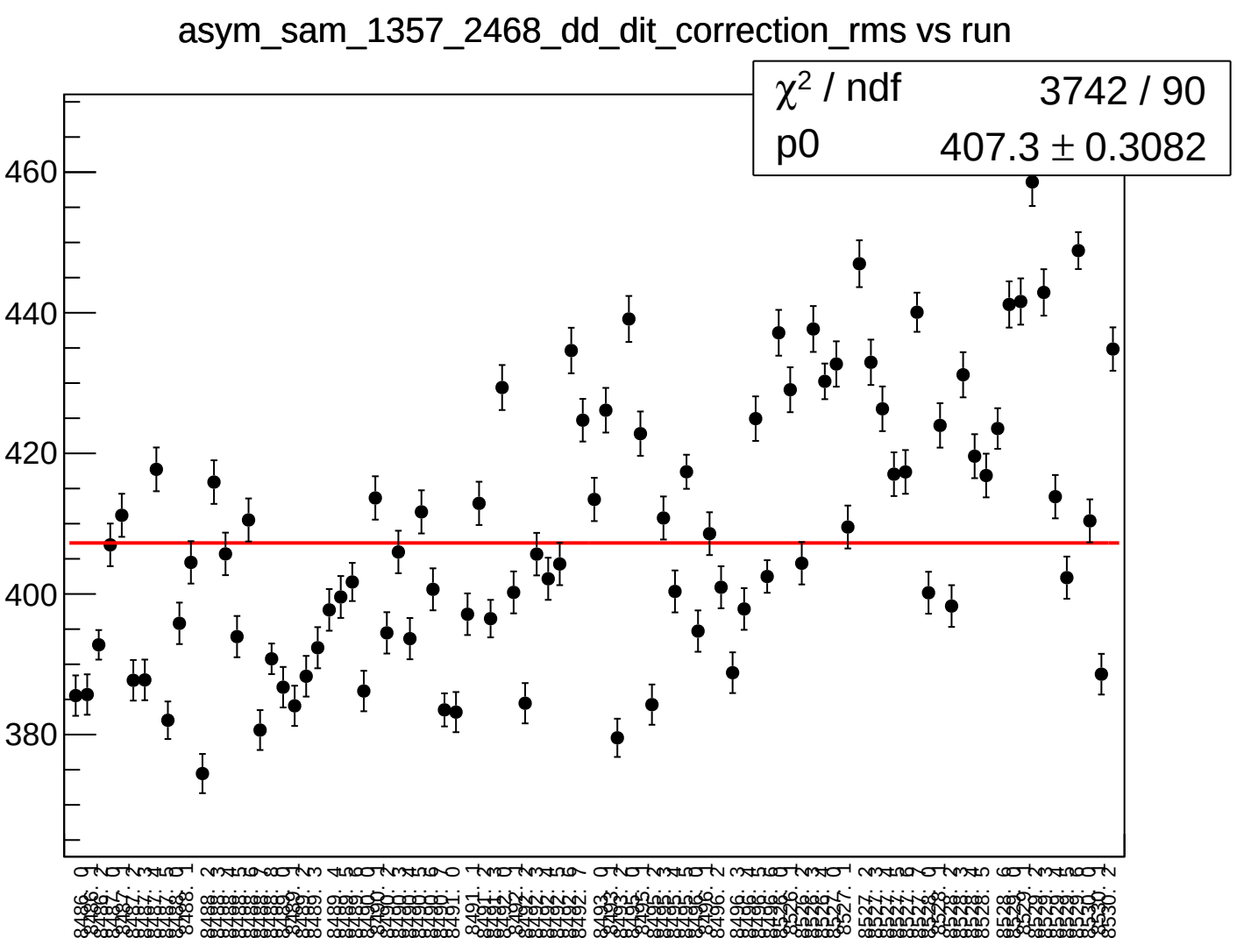

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 85.67 / 90
p0 −14.93 ± 40.74
pull
Entries 91
Mean 10.9
Std Dev 0

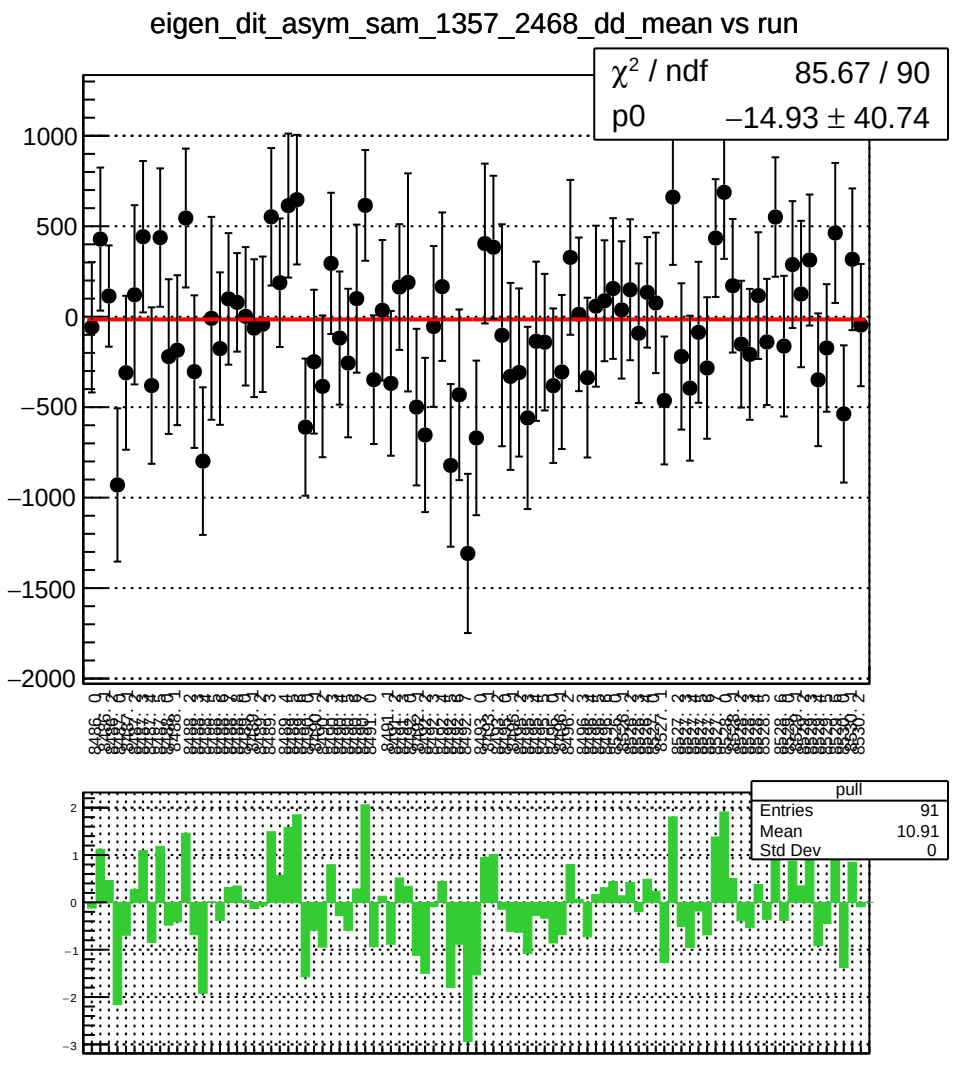

pull1D
Entries 91
Mean −0.04271
Std Dev 0.9693

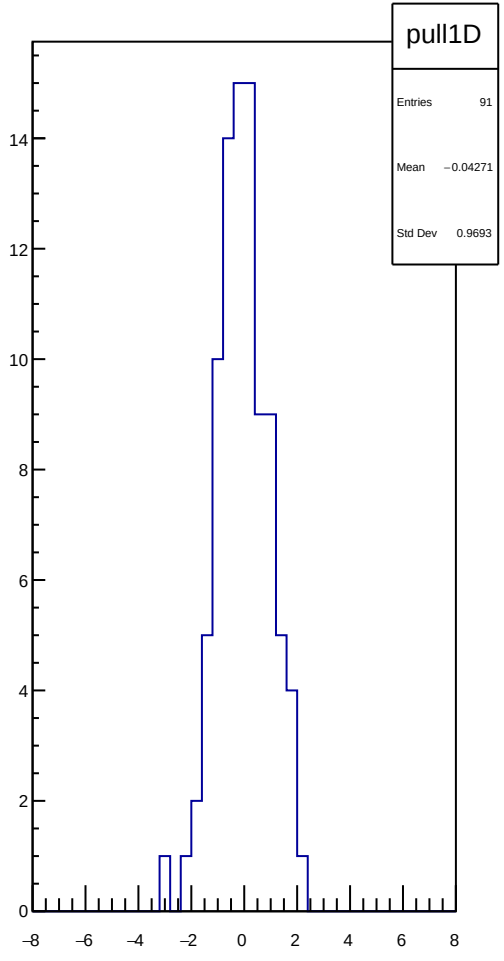

dit_asym_sam_1357_2468_dd_rms vs run
χ^2 / ndf 1.916e+04 / 90
p0 37.89 ± 0.02881
60
55
50
45
40
35

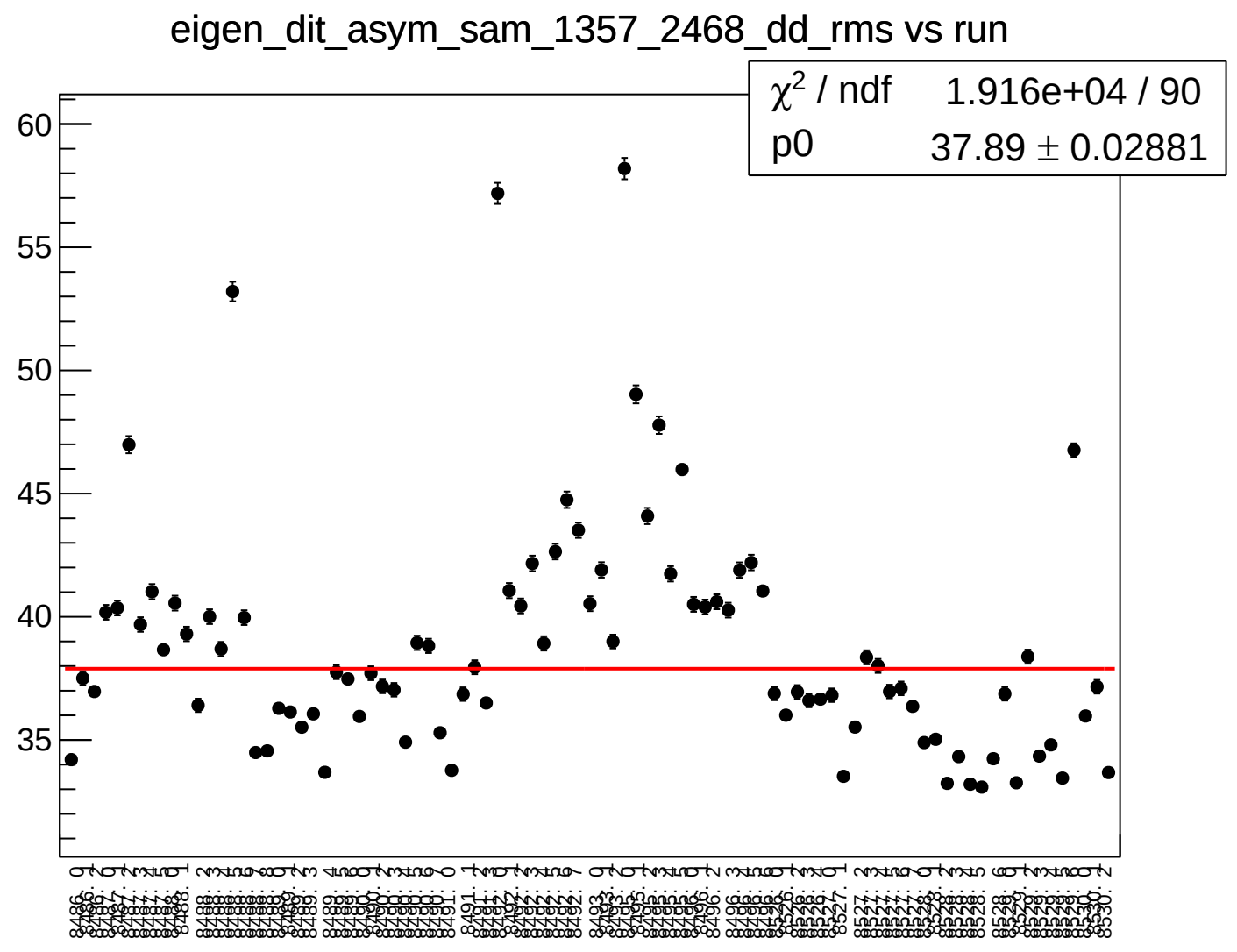

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 81.21 / 90
p0 628.7 ± 435.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 98.57
Std Dev 0
2
1
0
−1
−2

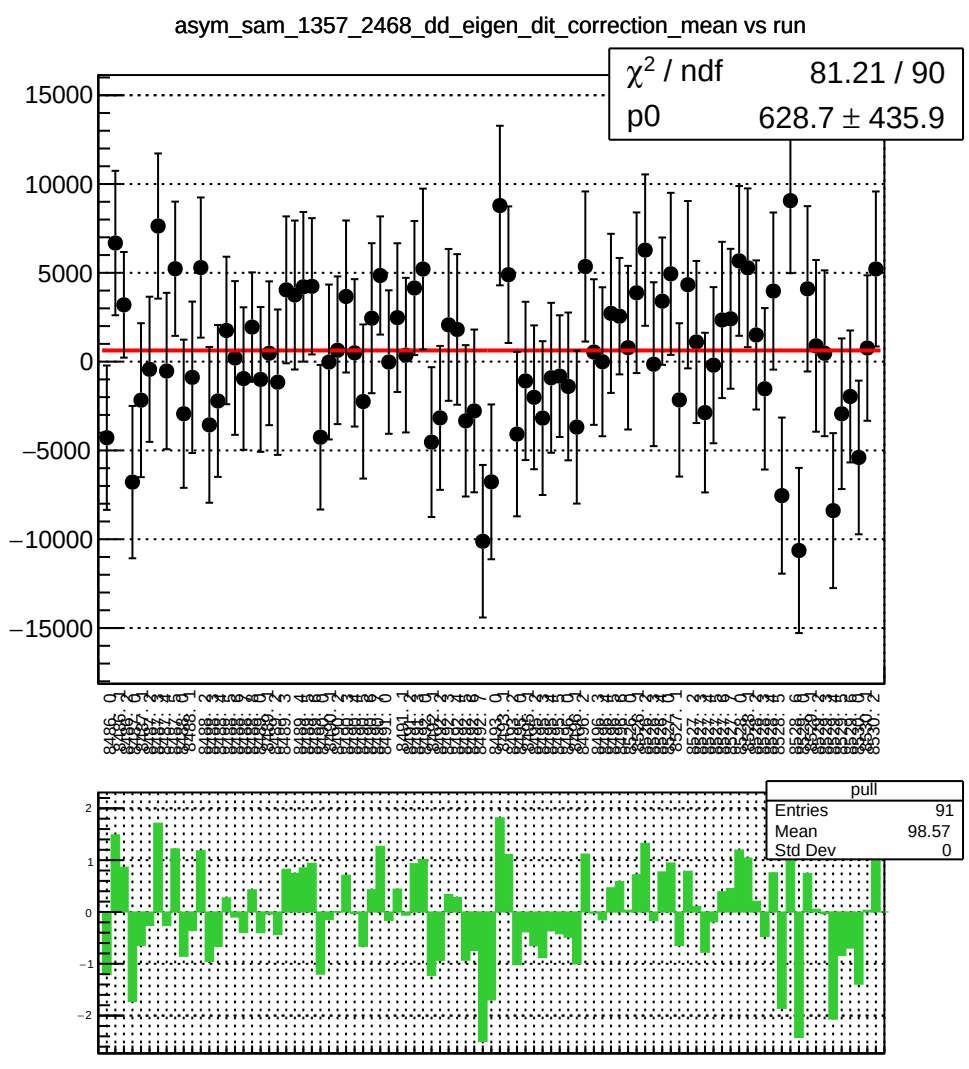

pull1D
Entries 91
Mean −0.02004
Std Dev 0.9444
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

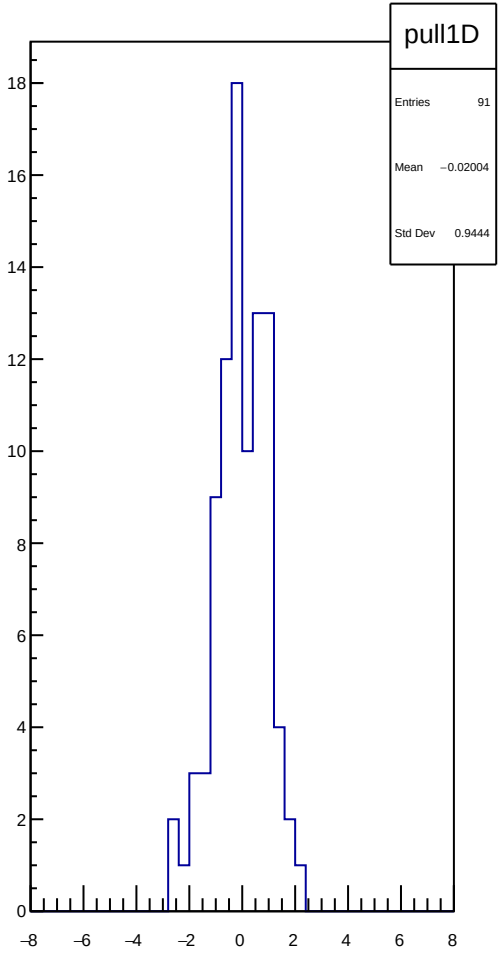

asym_sam_1357_2468_dd_dit_correction_rms vs run
χ² / ndf 3742 / 90
p0 407.3 ± 0.3082
460
440
420
400
380

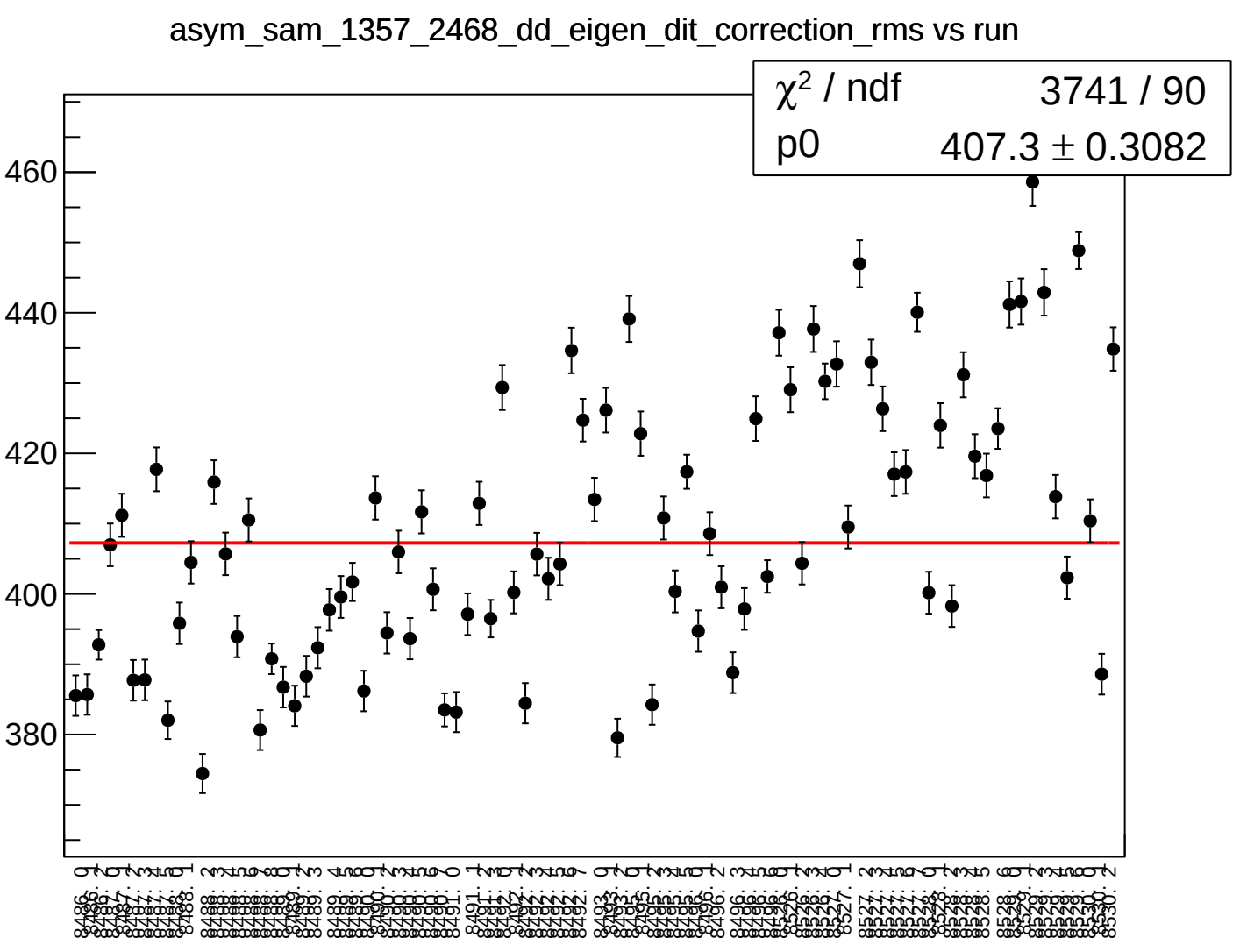

eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 85.67 / 90
p0 −14.93 ± 40.74
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 91
Mean 10.91
Std Dev 0
2
1
0
−1
−2
−3

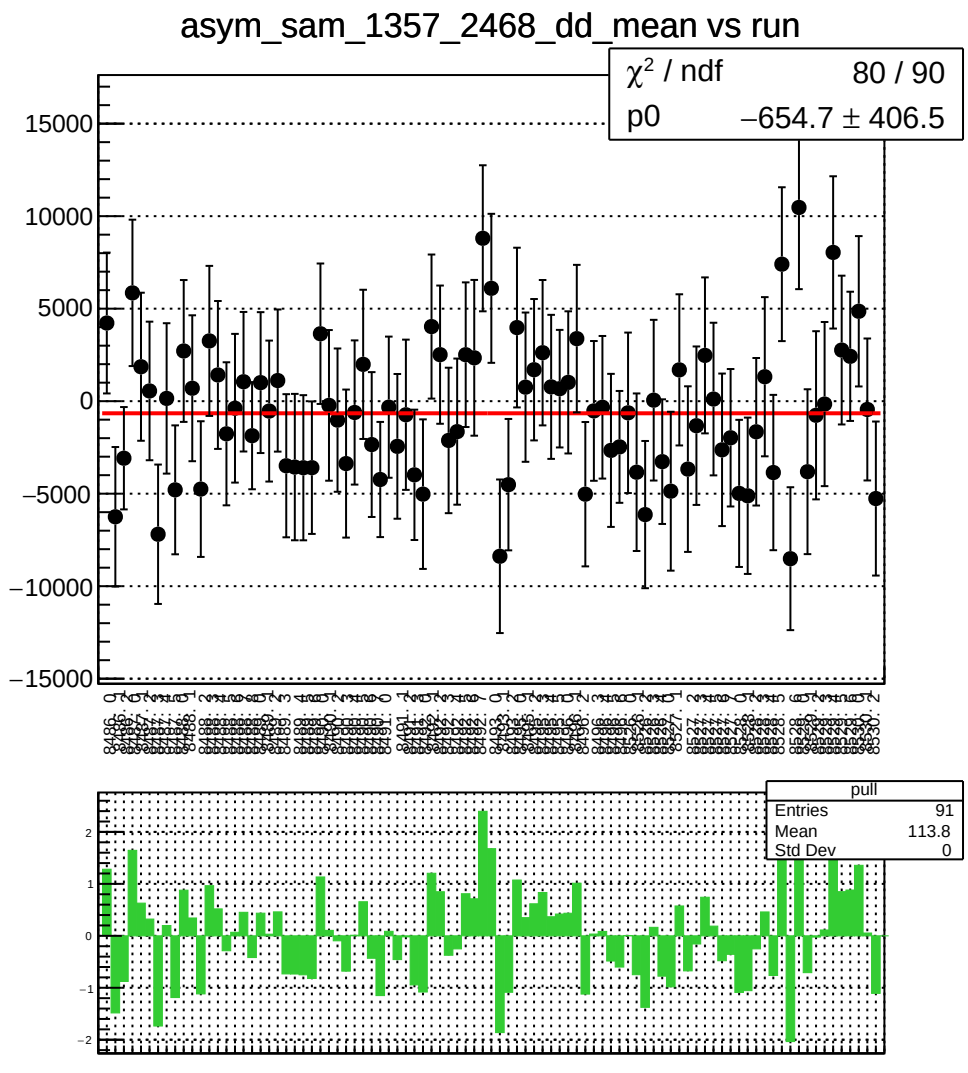

pull1D
Entries 91
Mean −0.04271
Std Dev 0.9693
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

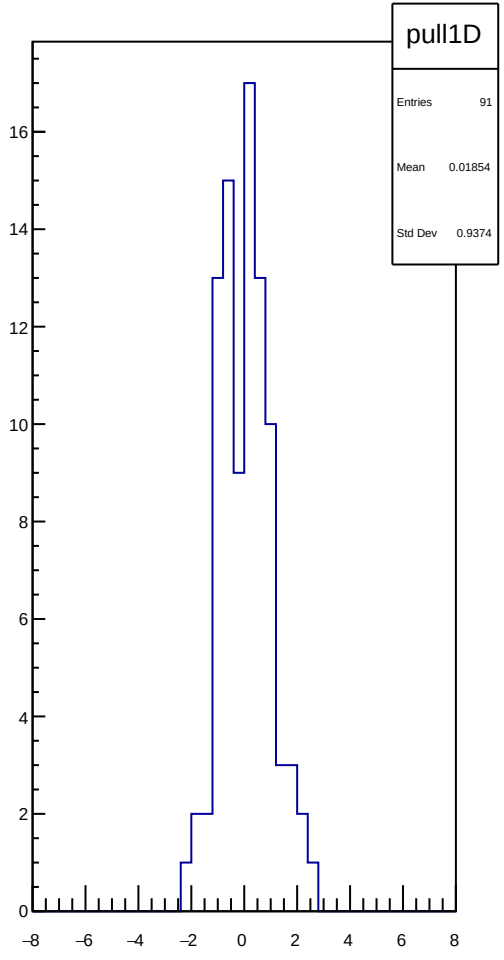

eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.916e+04 / 90
p0 37.89 ± 0.02881
60
55
50
45
40
35

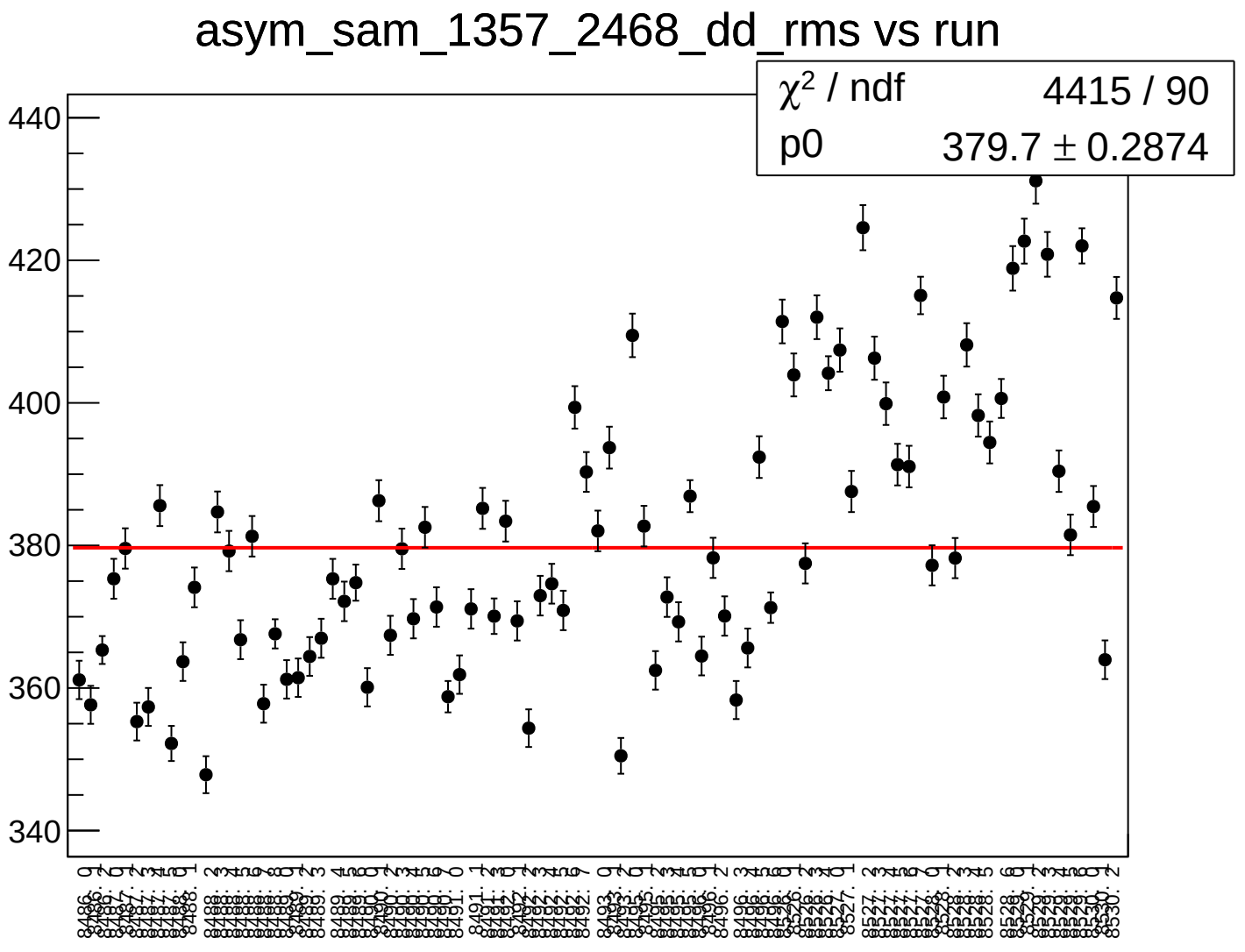

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 81.21 / 90
p0 628.7 ± 435.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 98.57
Std Dev 0
2
1
0
−1
−2

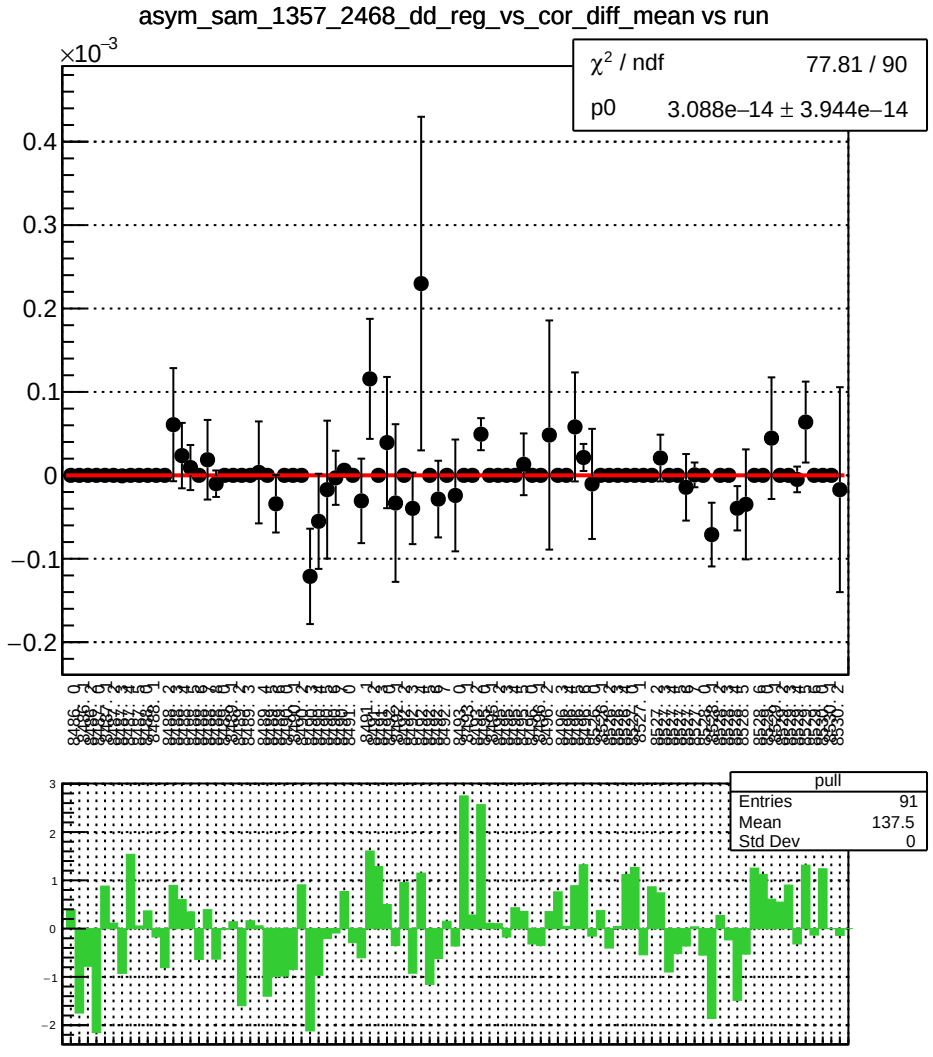

pull1D
Entries 91
Mean −0.02004
Std Dev 0.9444
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

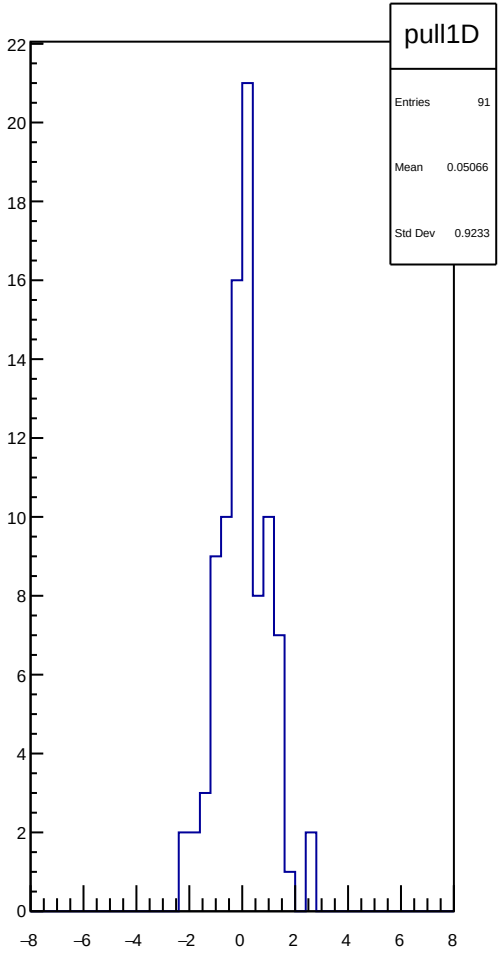

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 3741 / 90
p0 407.3 ± 0.3082
460
440
420
400
380

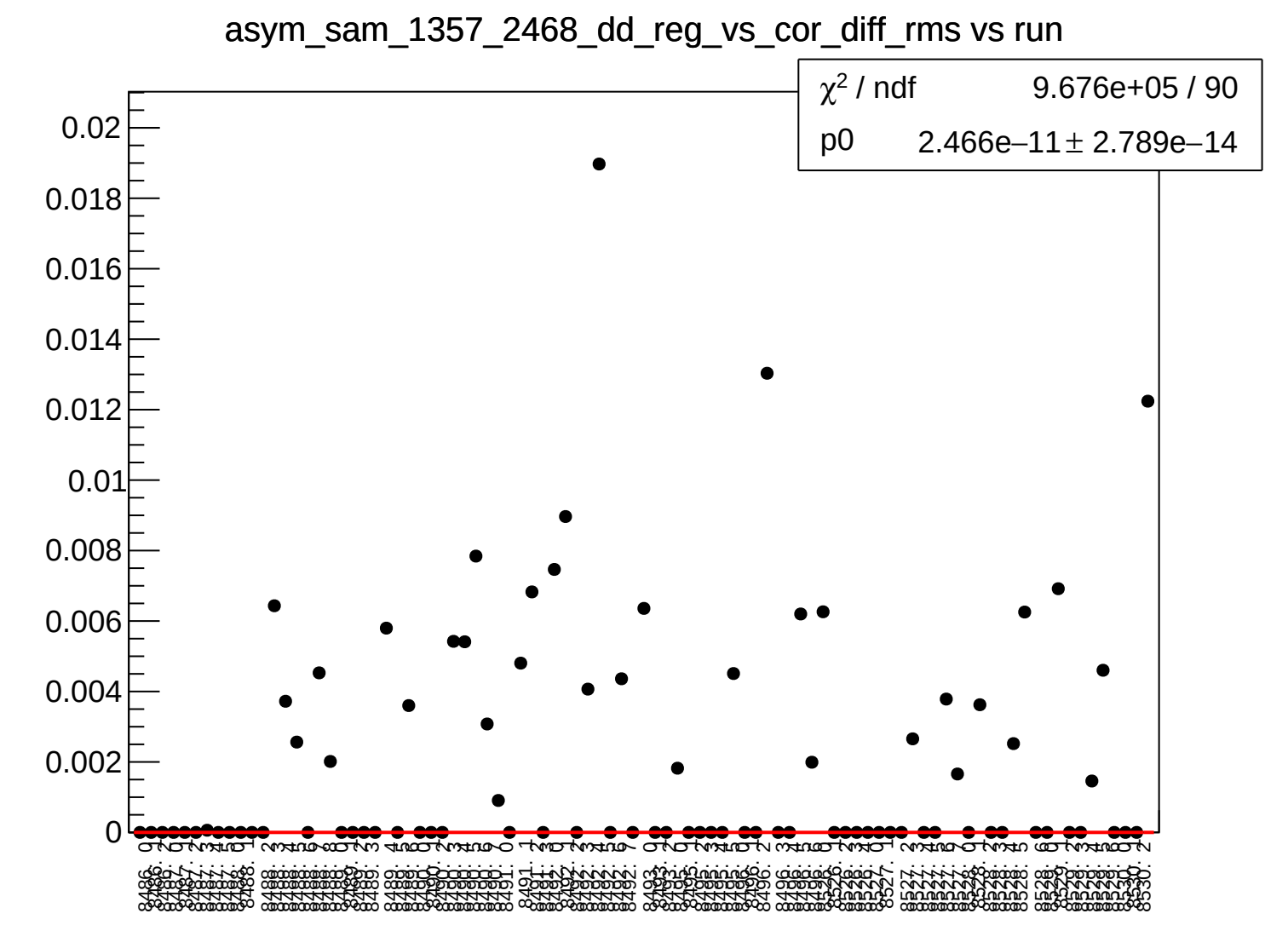

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 80 / 90
p0 −654.7 ± 406.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 113.8
Std Dev 0
2
1
0
−1
−2

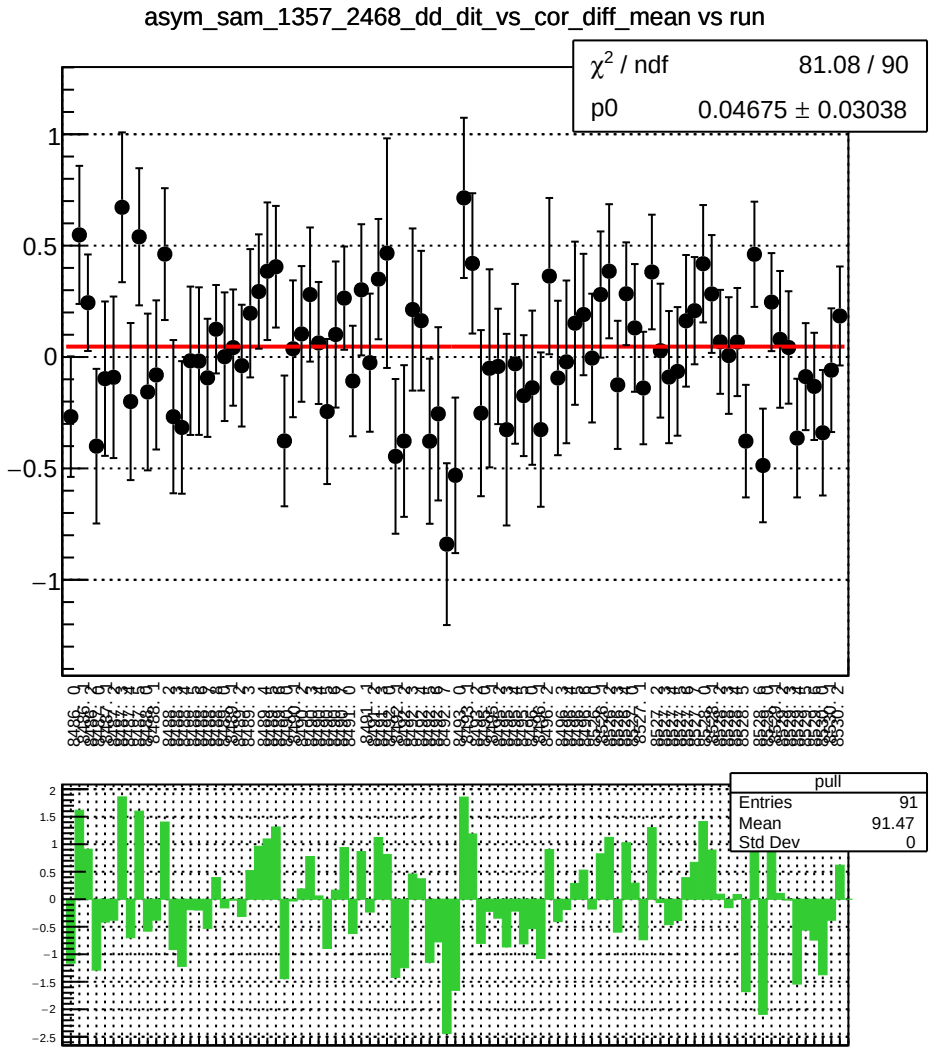

pull1D
Entries 91
Mean 0.01854
Std Dev 0.9374
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

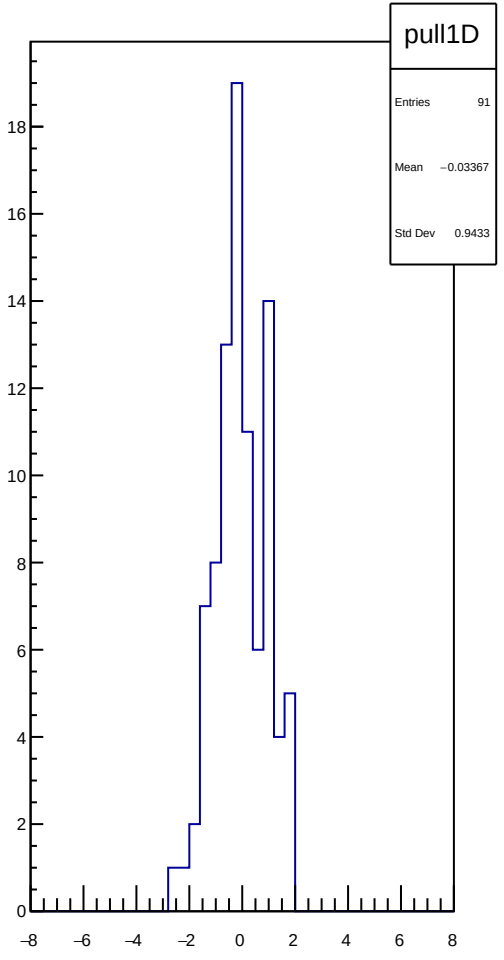

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 4415 / 90
p0 379.7 ± 0.2874
440
420
400
380
360
340

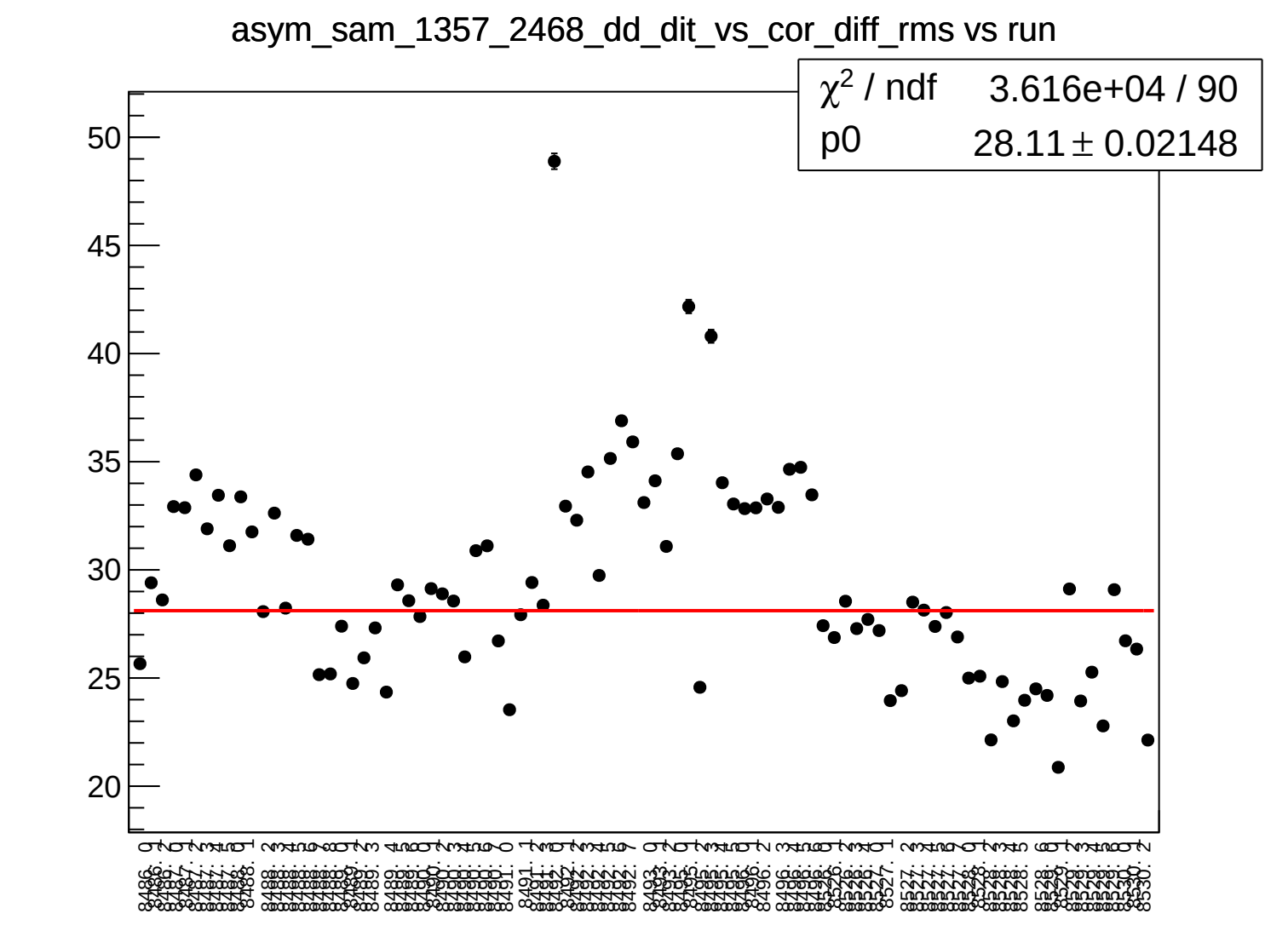

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 77.81 / 90
p0 3.088e−14 ± 3.944e−14
0.4
0.3
0.2
0.1
0
−0.1
−0.2
pull
Entries 91
Mean 137.5
Std Dev 0
3
2
1
0
−1
−2

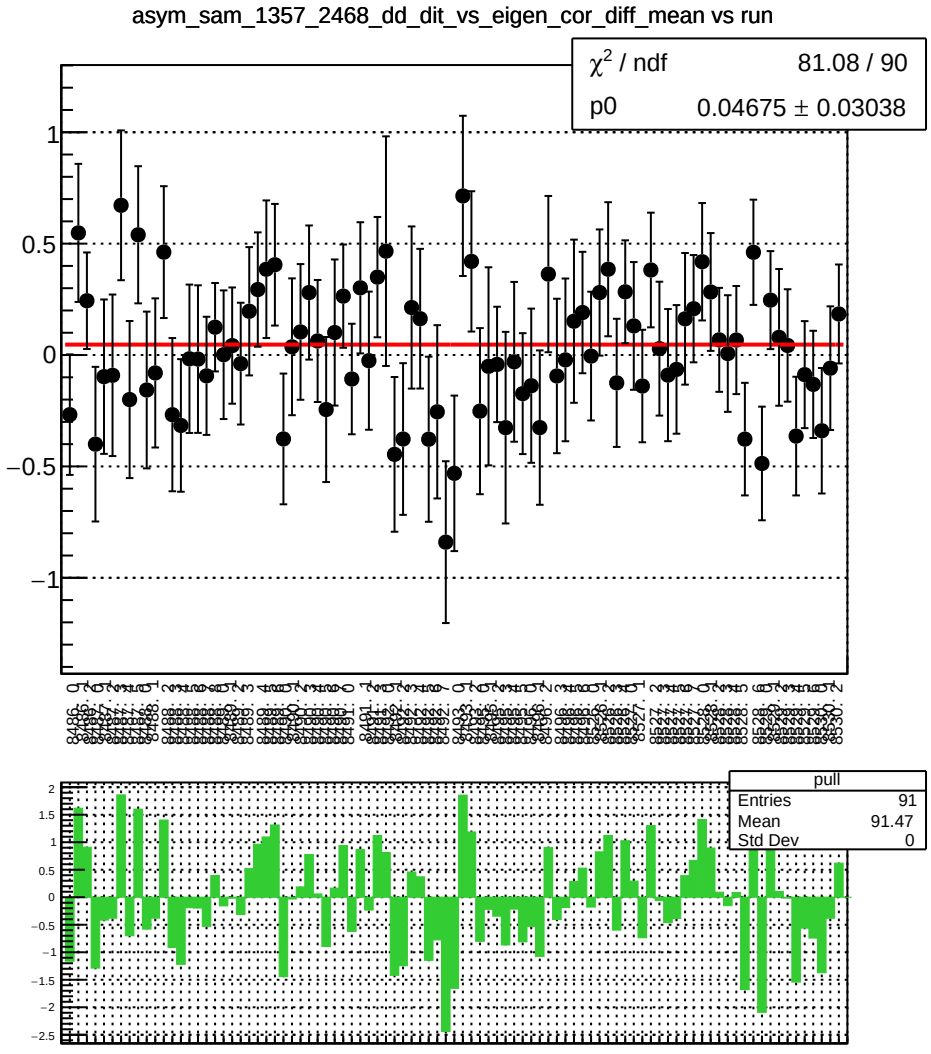

pull1D
Entries 91
Mean 0.05066
Std Dev 0.9233
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

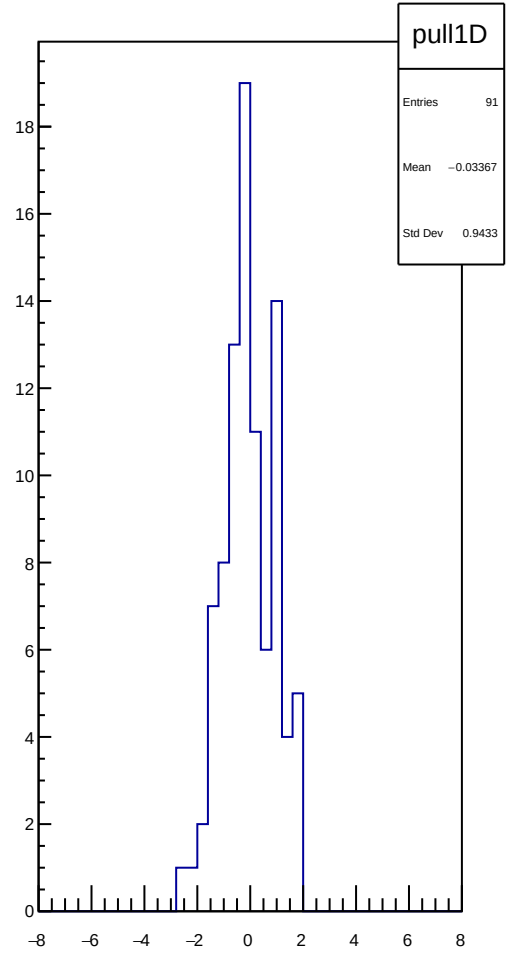

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ2 / ndf 9.676e+05 / 90
p0 2.466e−11 ± 2.789e−14
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0

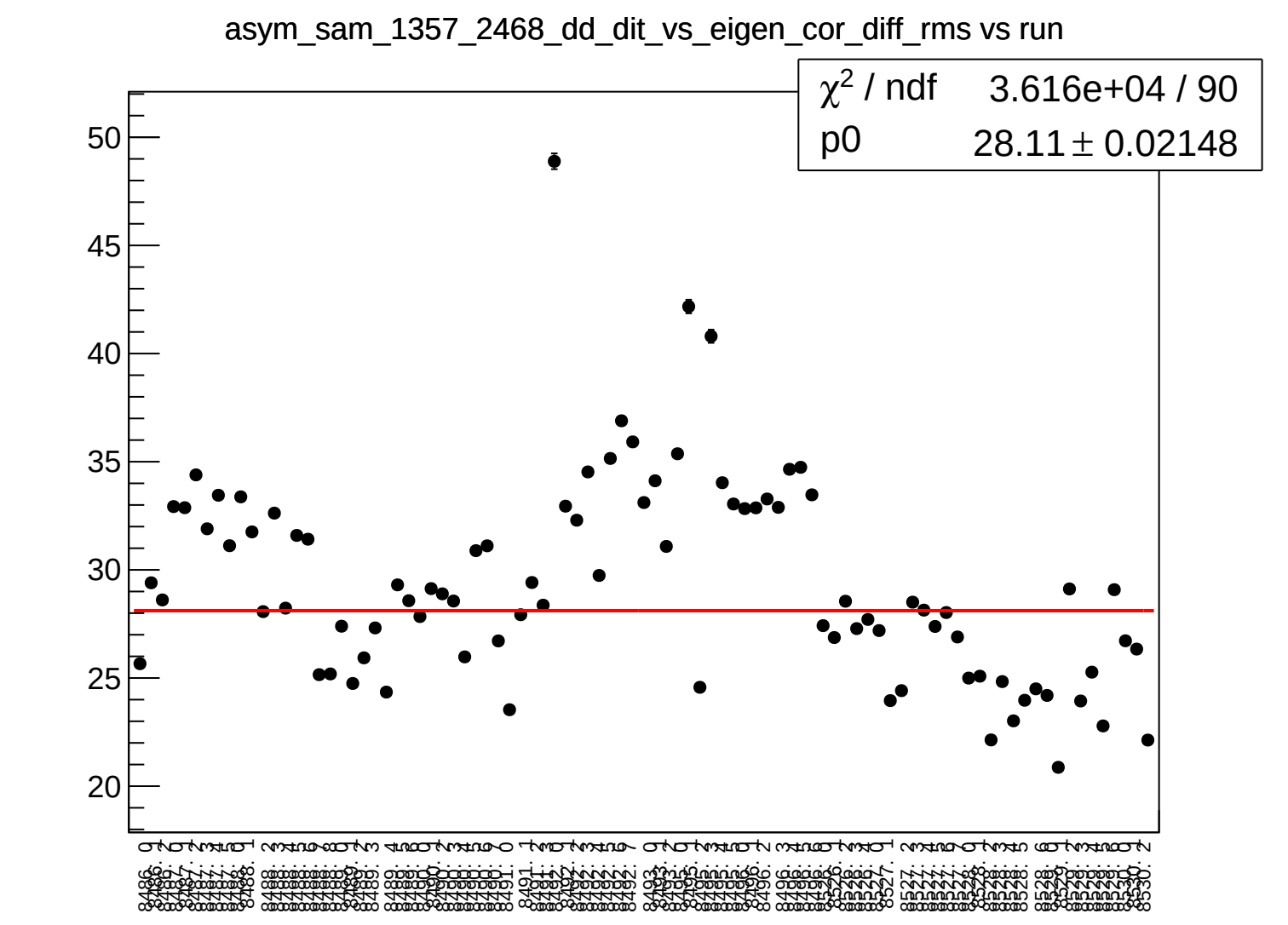

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 81.08 / 90
p0 0.04675 ± 0.03038
pull
Entries 91
Mean 91.47
Std Dev 0

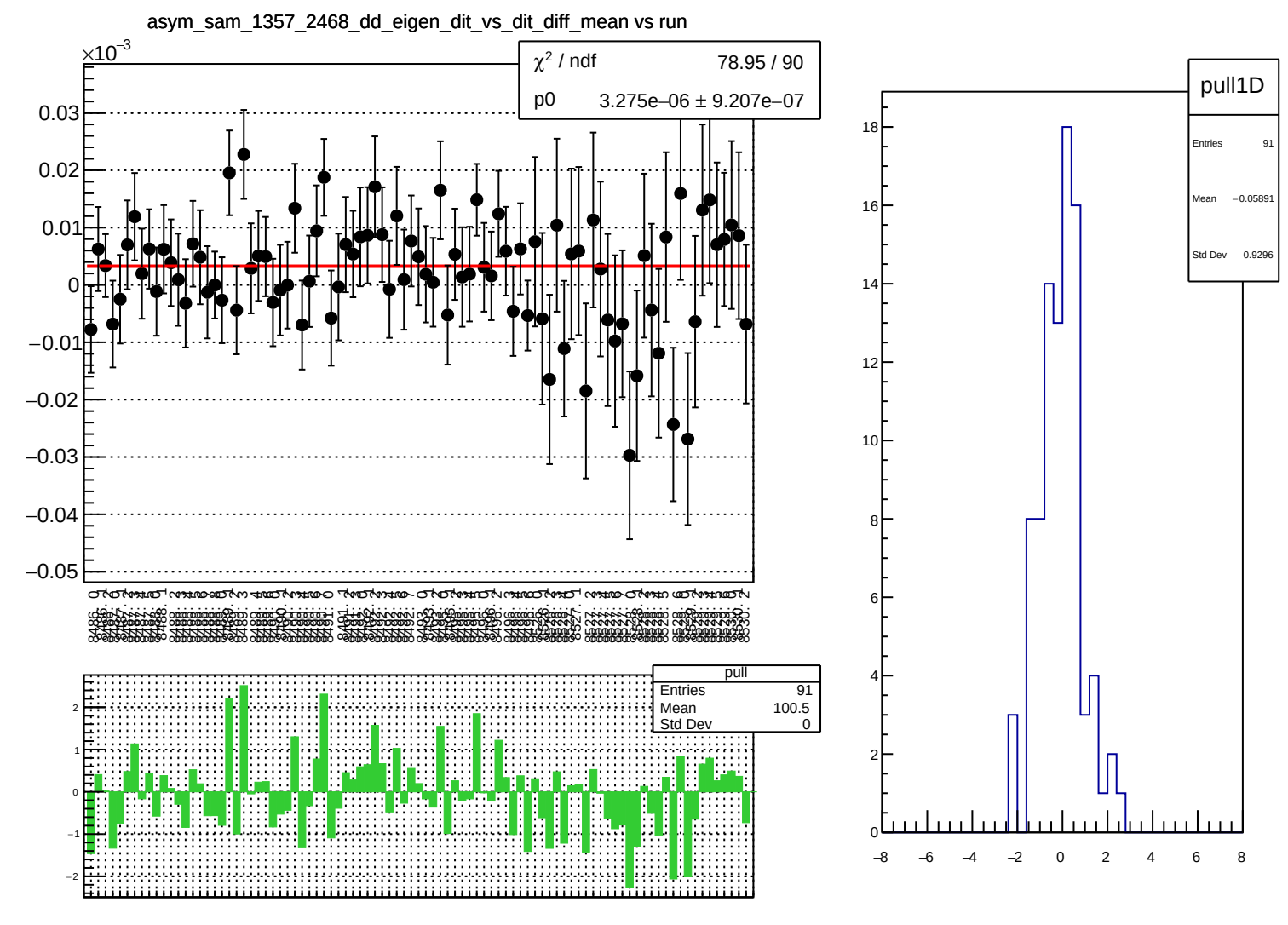

pull1D
Entries 91
Mean −0.03367
Std Dev 0.9433

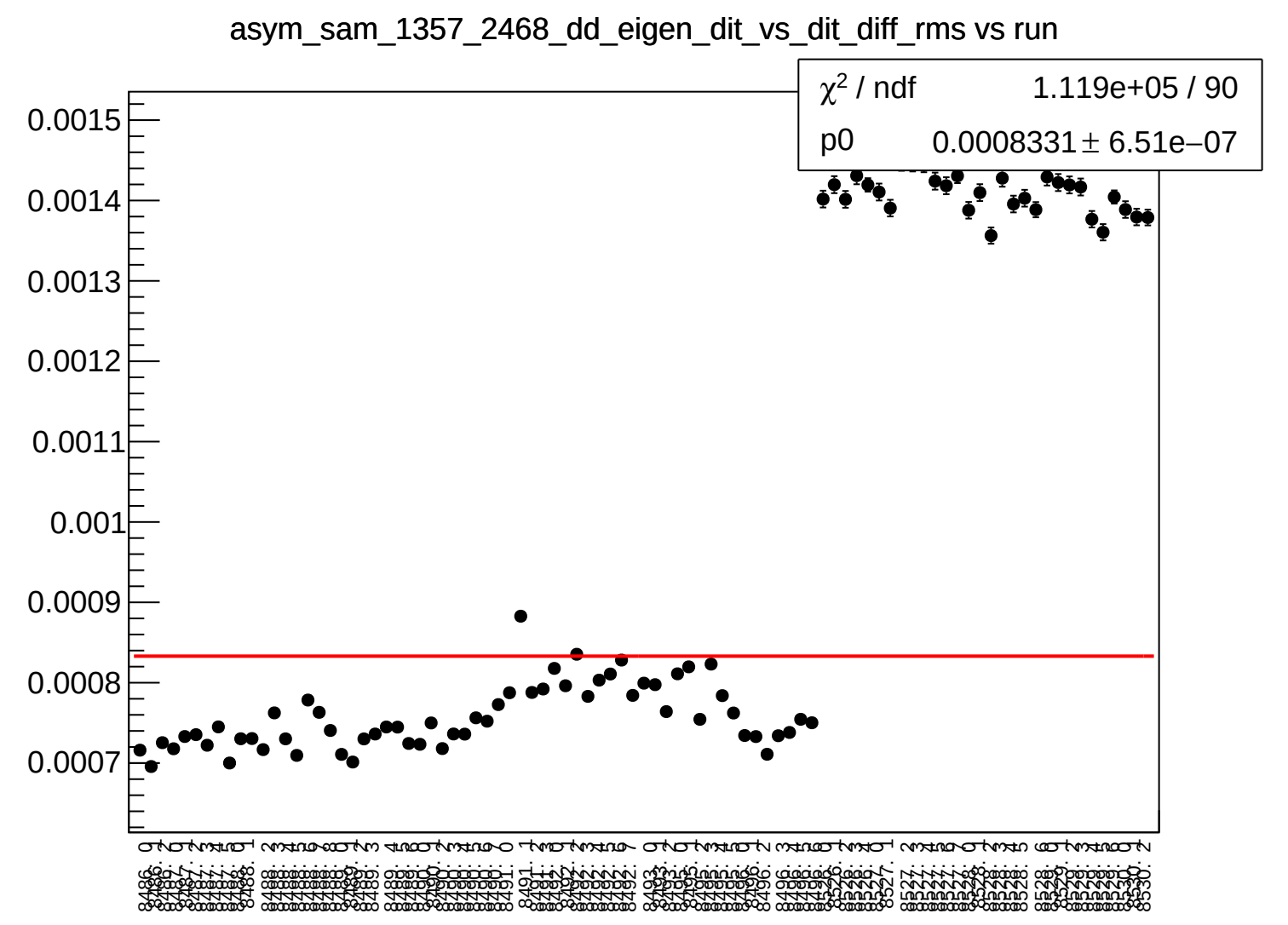

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.616e+04 / 90
p0 28.11 ± 0.02148
50
45
40
35
30
25
20

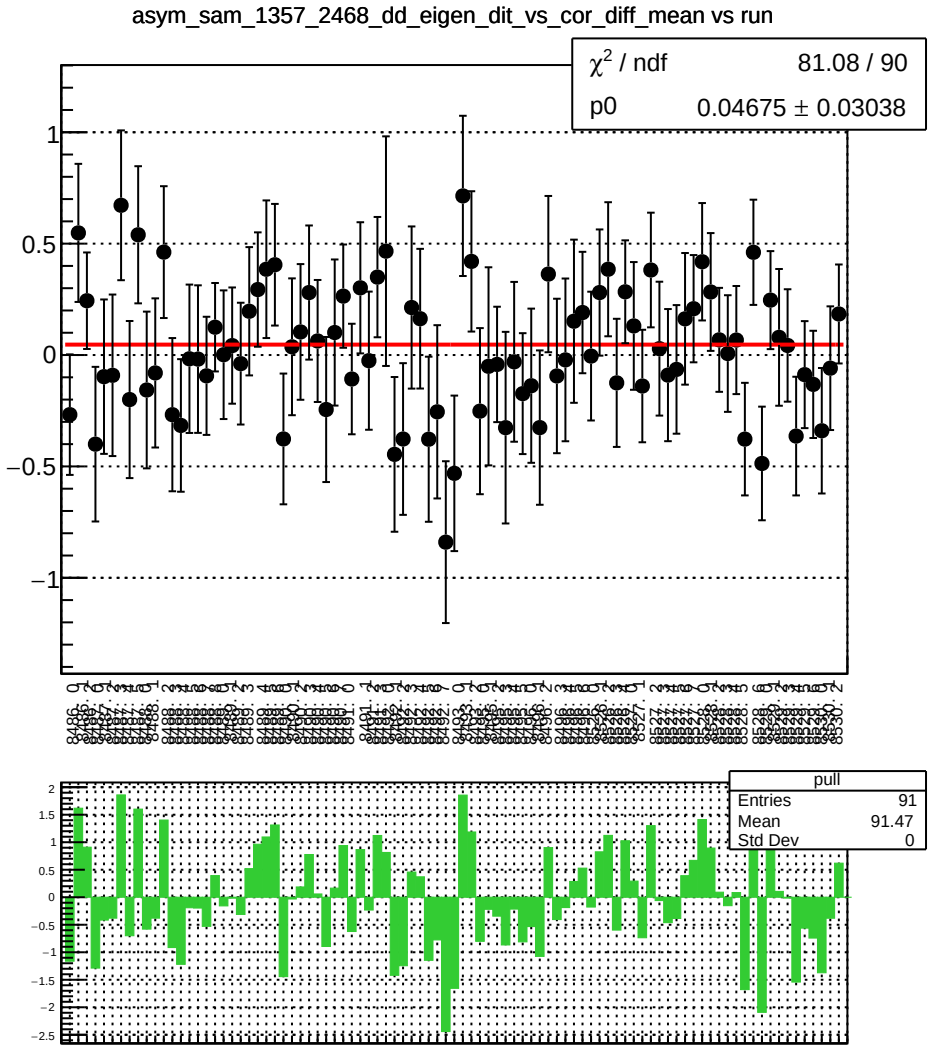

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.08 / 90
p0 0.04675 ± 0.03038
pull
Entries 91
Mean 91.47
Std Dev 0

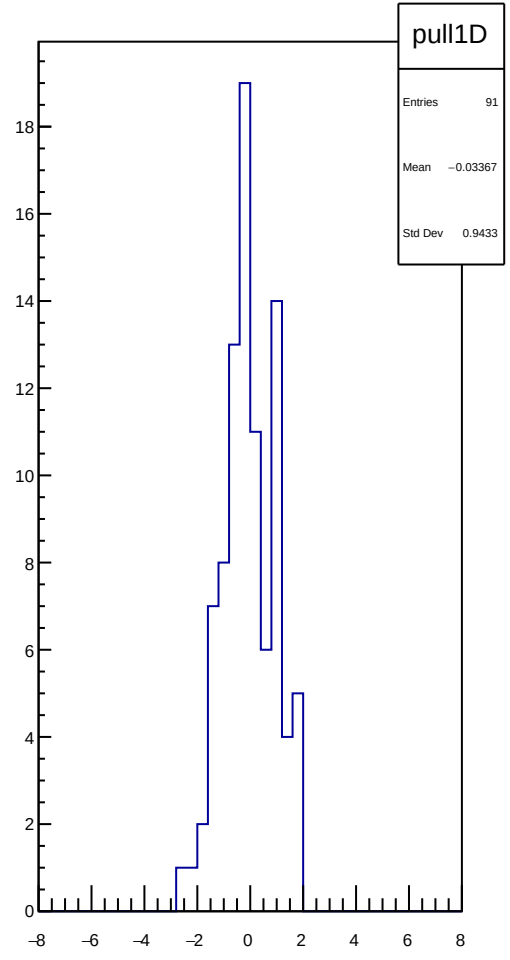

pull1D
Entries 91
Mean −0.03367
Std Dev 0.9433

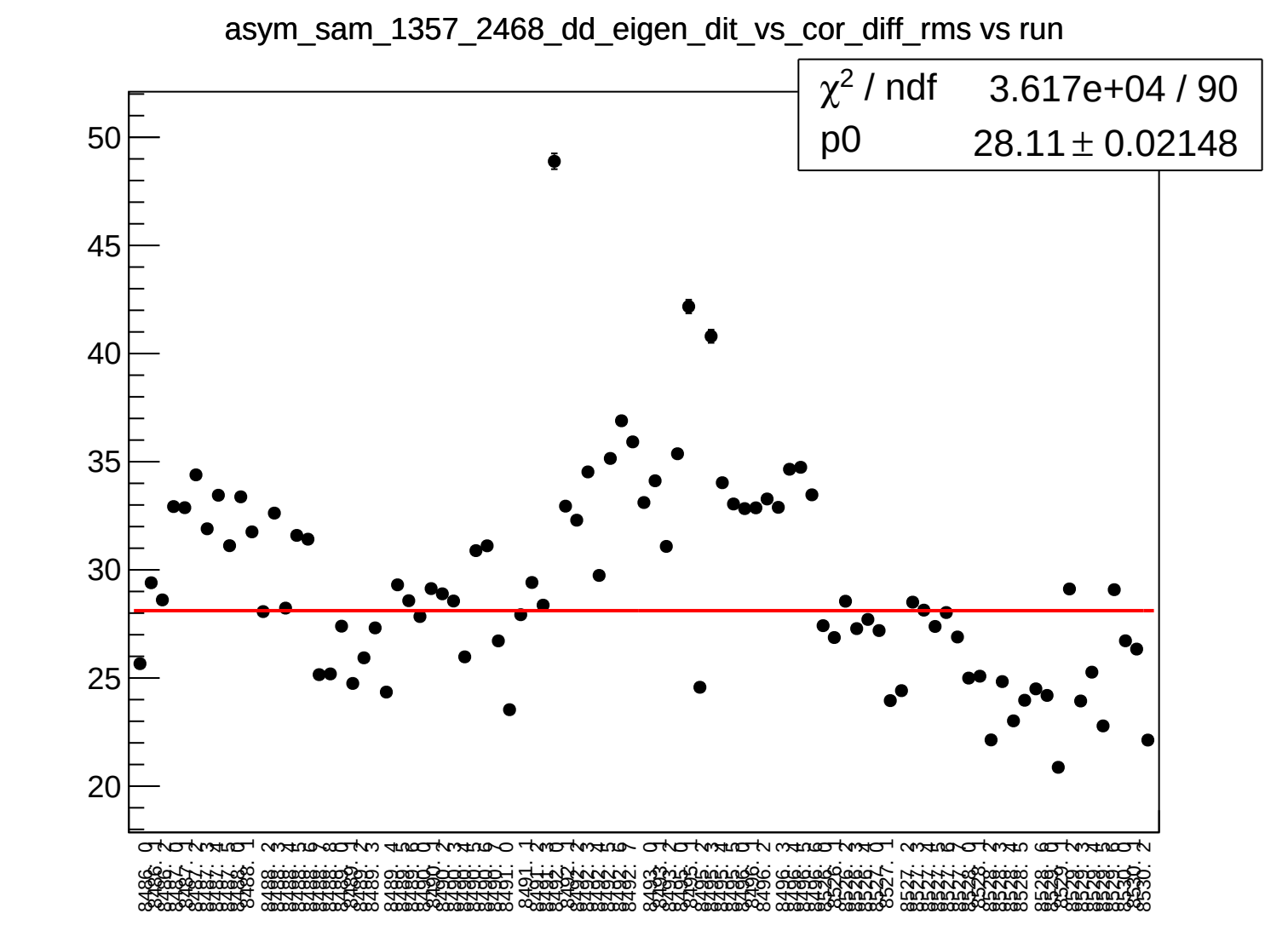

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 3.616e+04 / 90
p0 28.11 ± 0.02148
50
45
40
35
30
25
20

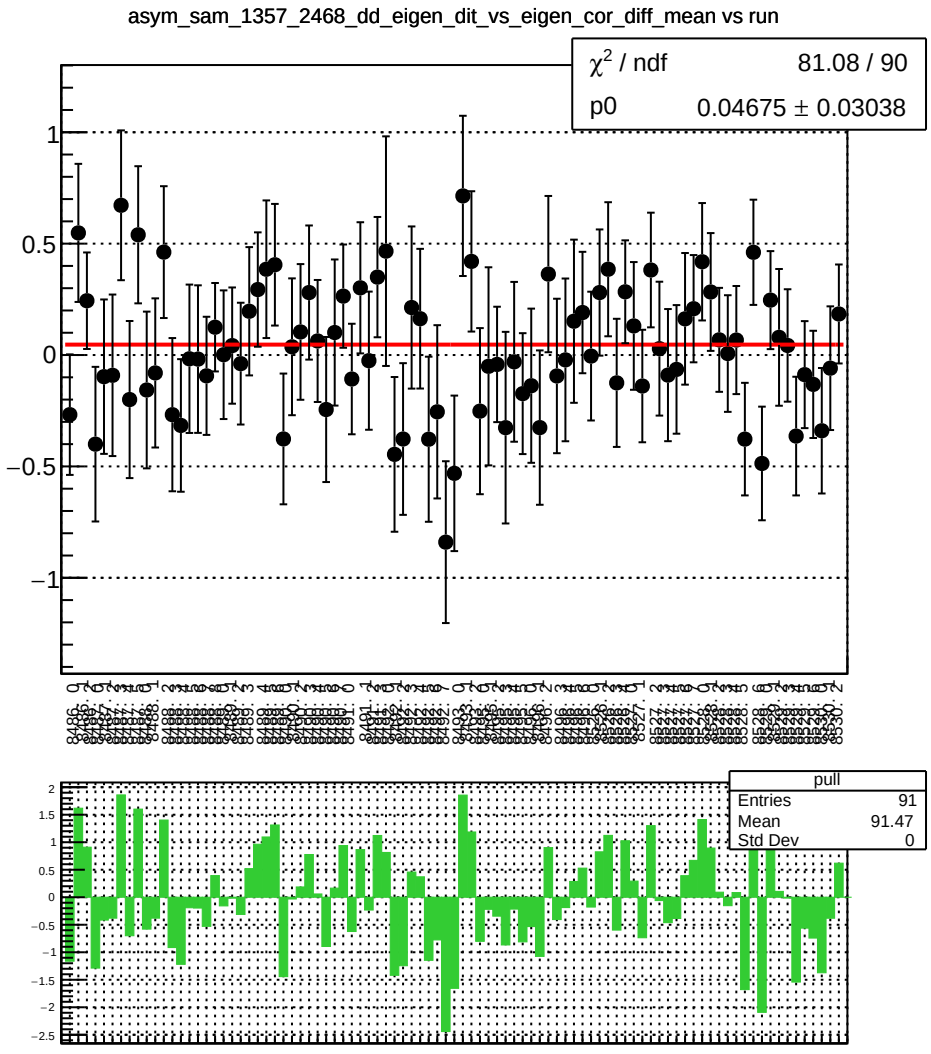

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.95 / 90
p0 3.275e−06 ± 9.207e−07
pull
Entries 91
Mean 100.5
Std Dev 0
pull1D
Entries 91
Mean −0.05891
Std Dev 0.9296

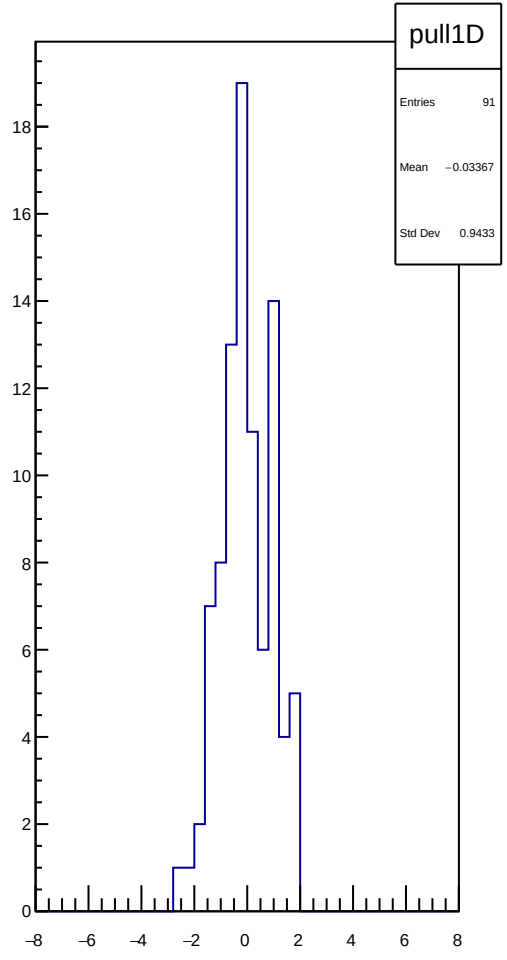

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.119e+05 / 90
p0 0.0008331 ± 6.51e−07
0.0015
0.0014
0.0013
0.0012
0.0011
0.001
0.0009
0.0008
0.0007

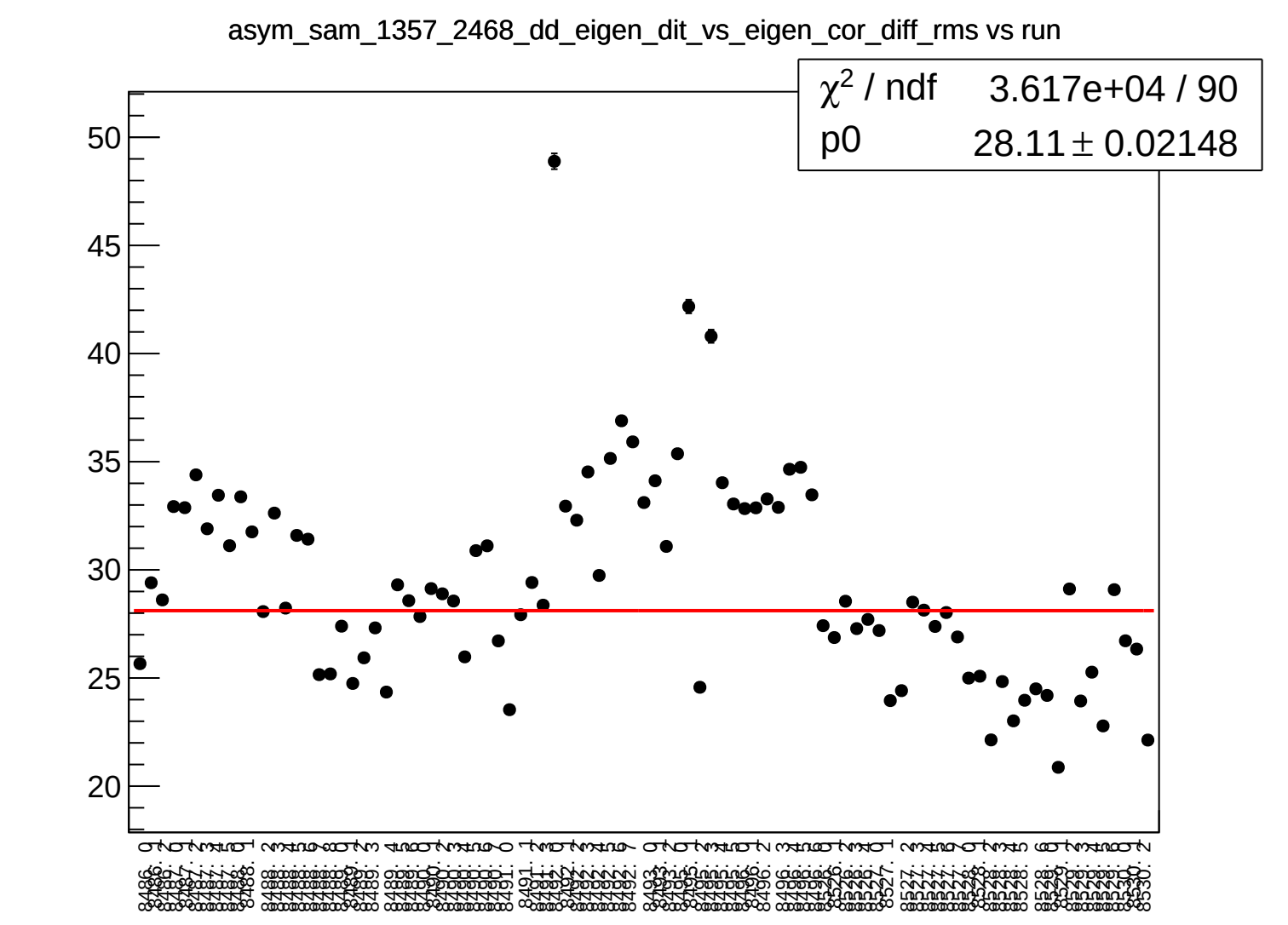

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.08 / 90
p0 0.04675 ± 0.03038
pull
Entries 91
Mean 91.47
Std Dev 0

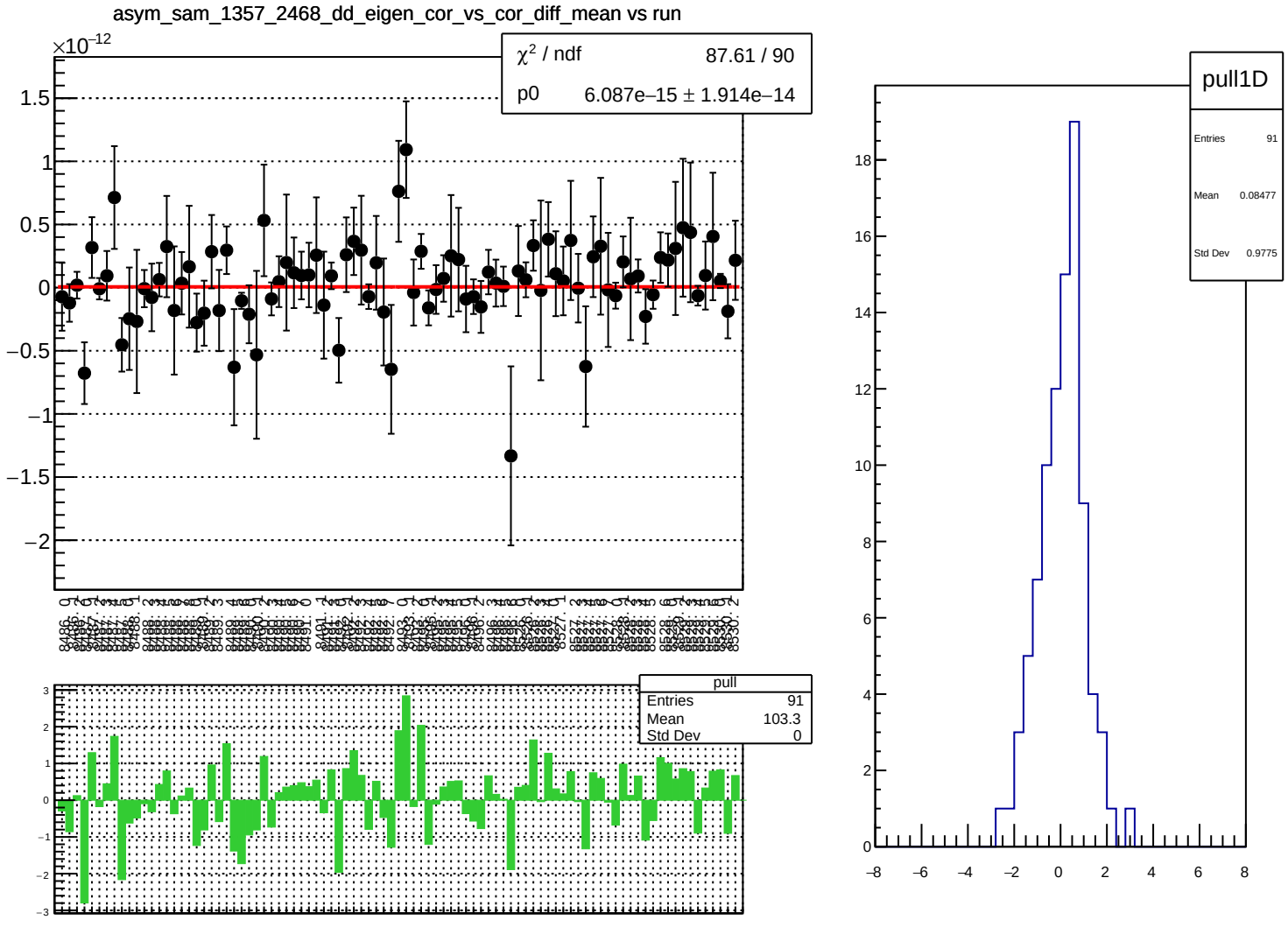

pull1D
Entries 91
Mean −0.03367
Std Dev 0.9433

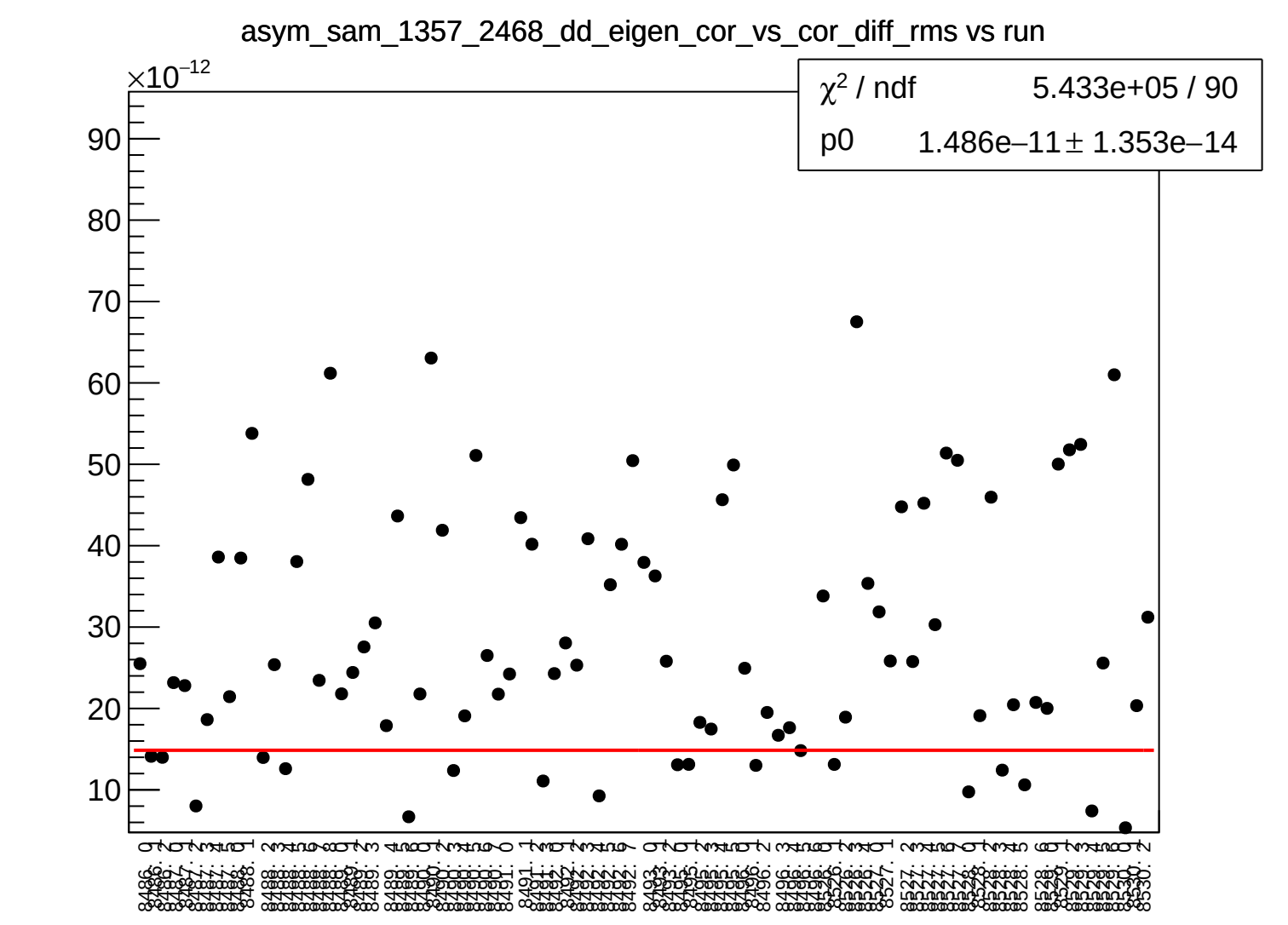

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.617e+04 / 90
p0 28.11 ± 0.02148
50
45
40
35
30
25
20

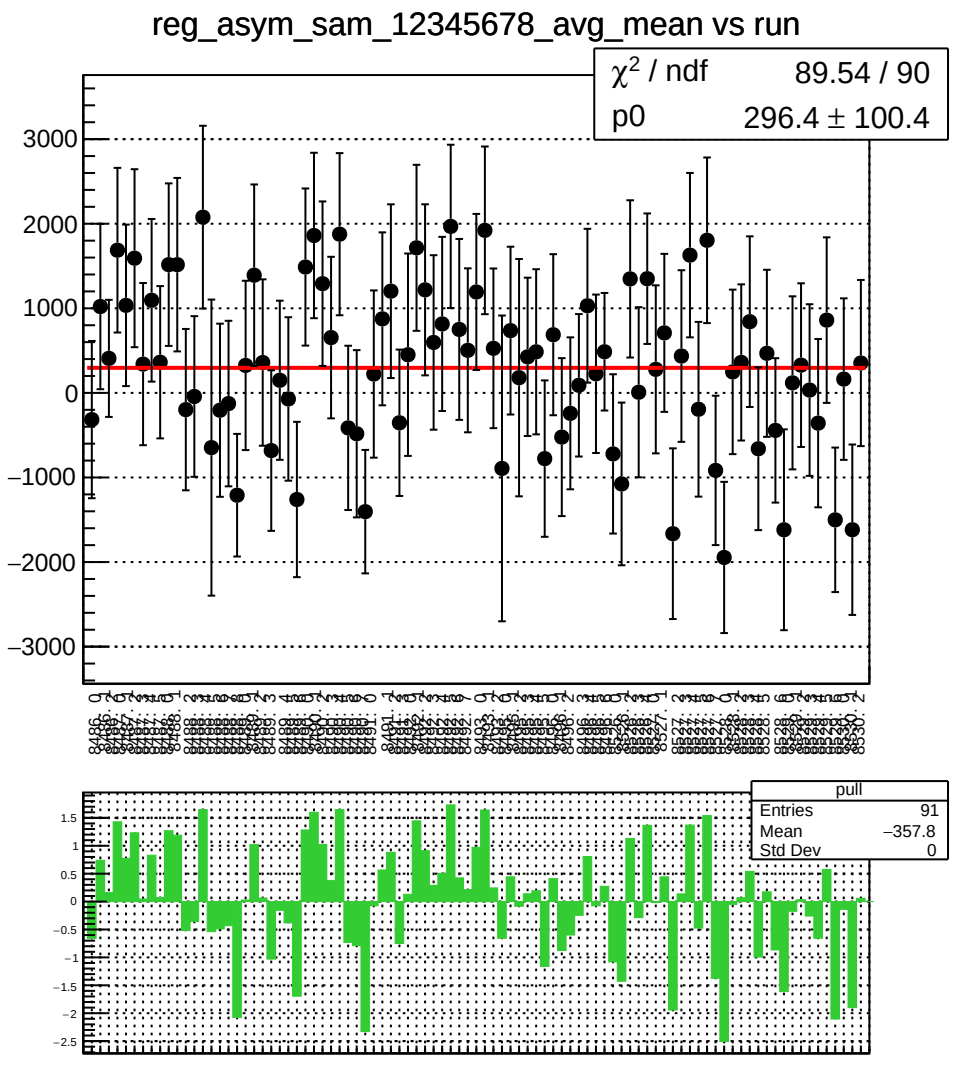

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.08 / 90
p0 0.04675 ± 0.03038
pull
Entries 91
Mean 91.47
Std Dev 0

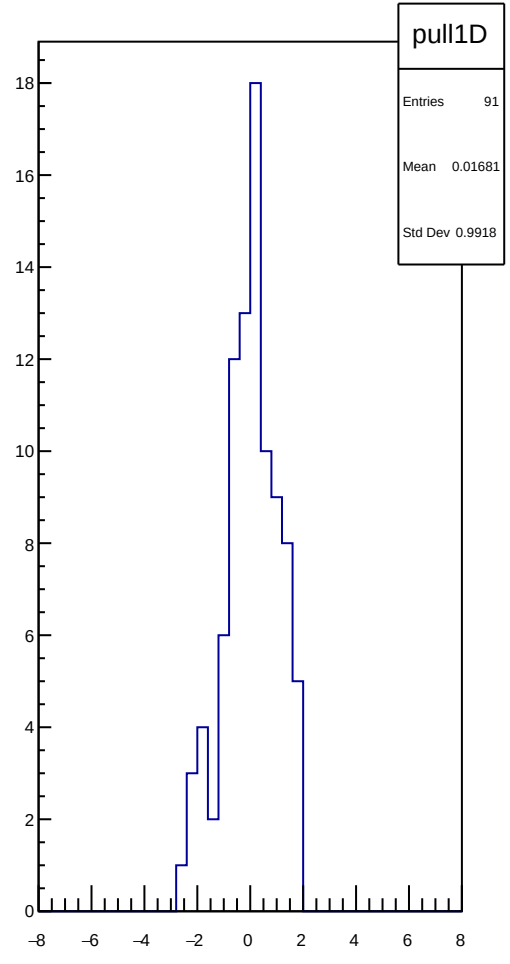

pull1D
Entries 91
Mean −0.03367
Std Dev 0.9433

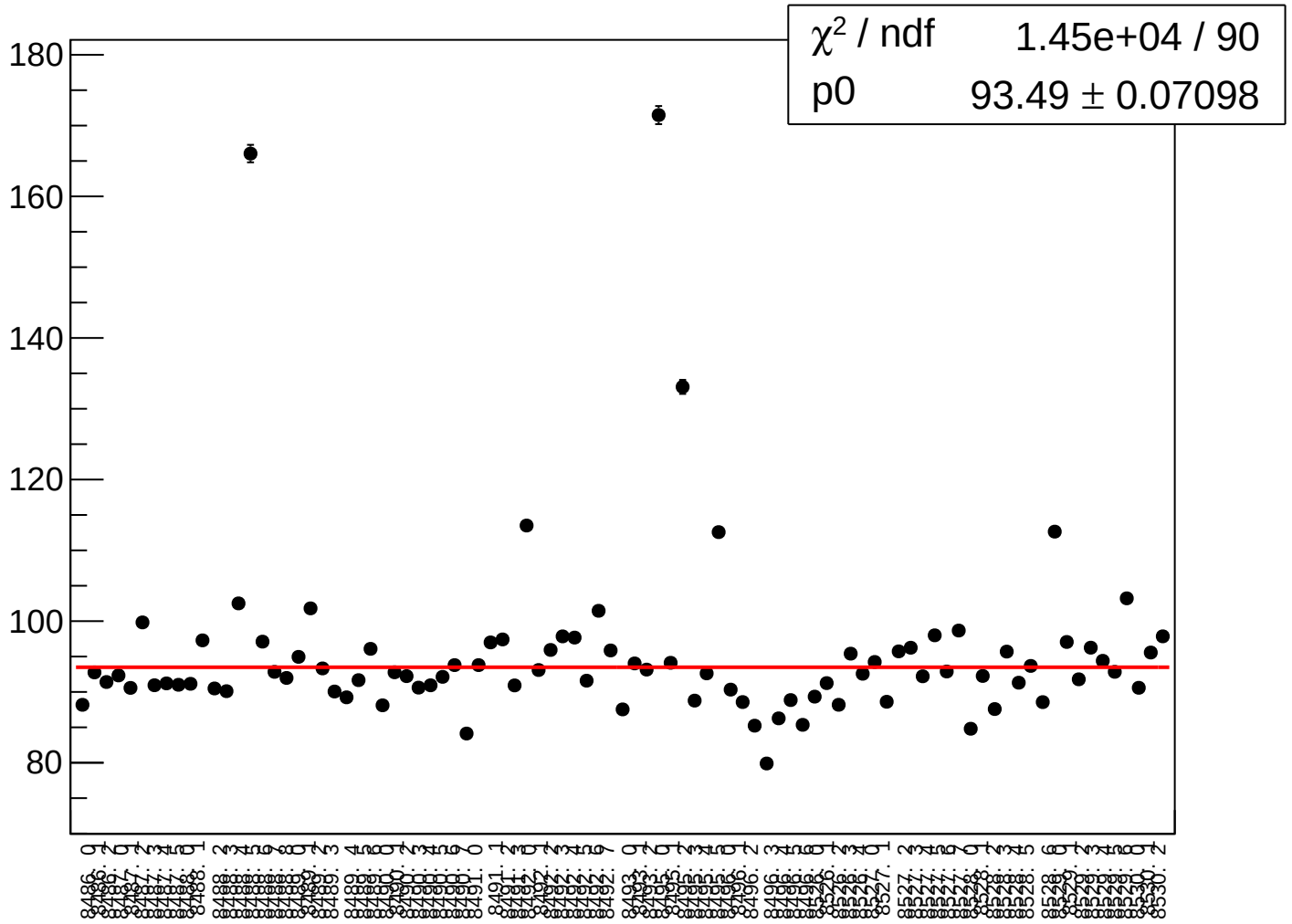

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 3.617e+04 / 90
p0 28.11 ± 0.02148
50
45
40
35
30
25
20

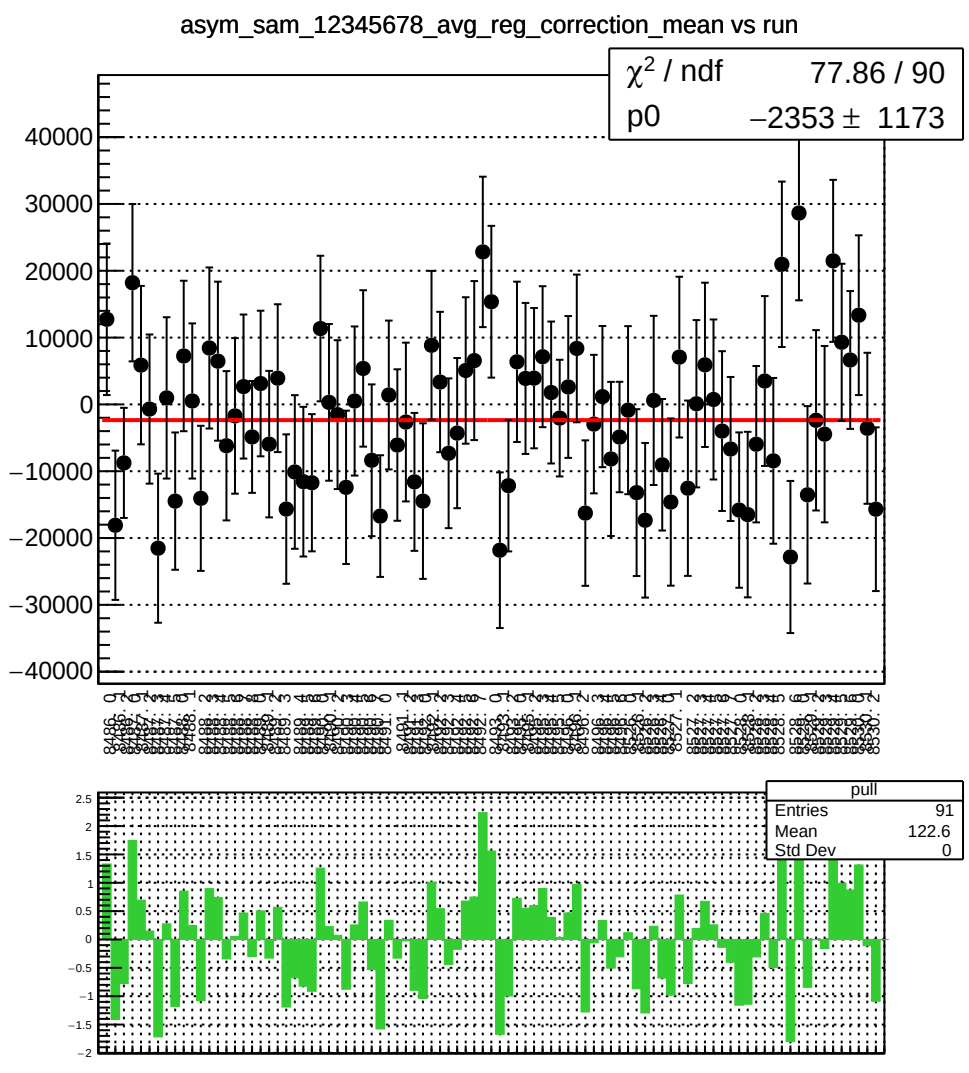

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.61 / 90
p0 6.087e−15 ± 1.914e−14
pull
Entries 91
Mean 103.3
Std Dev 0
pull1D
Entries 91
Mean 0.08477
Std Dev 0.9775

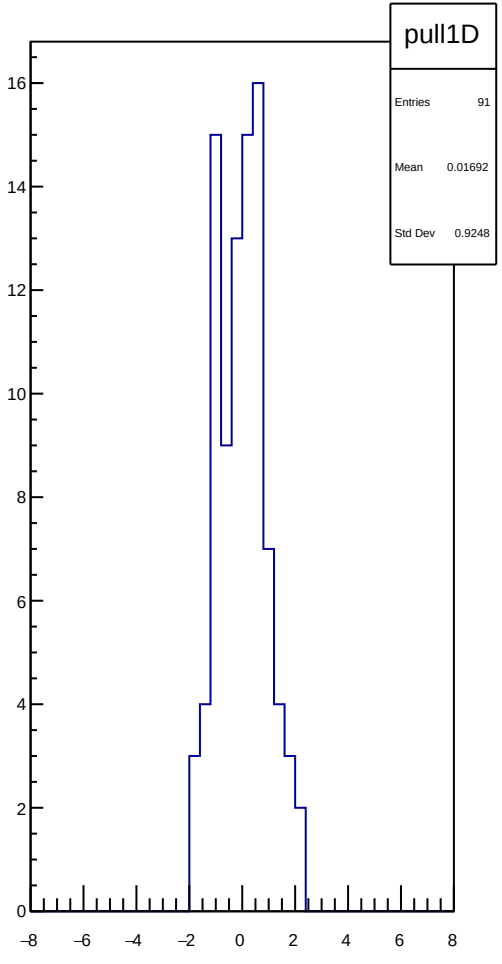

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.433e+05 / 90
p0 1.486e−11 ± 1.353e−14
90
80
70
60
50
40
30
20
10

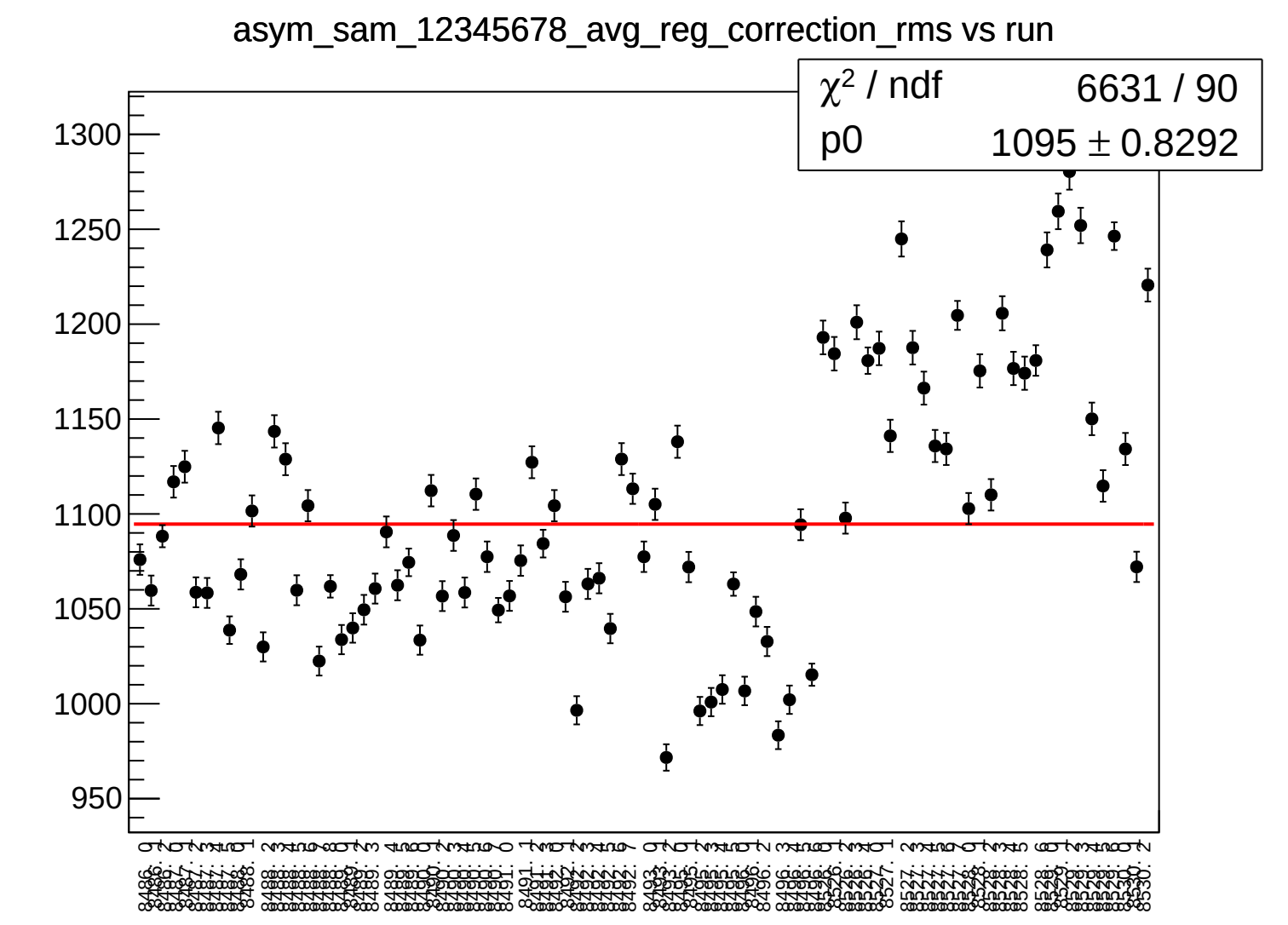

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 89.54 / 90
p0 296.4 ± 100.4
pull
Entries 91
Mean −357.8
Std Dev 0

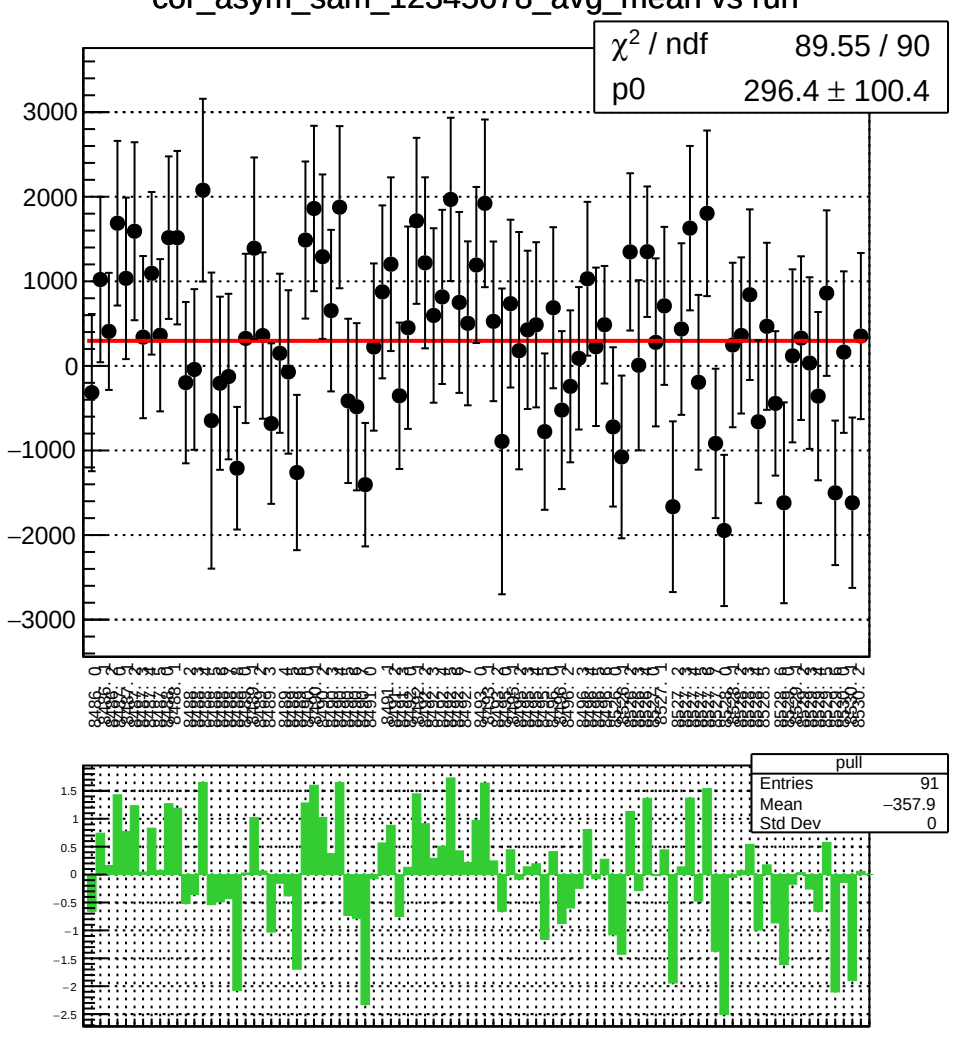

pull1D
Entries 91
Mean 0.01681
Std Dev 0.9918

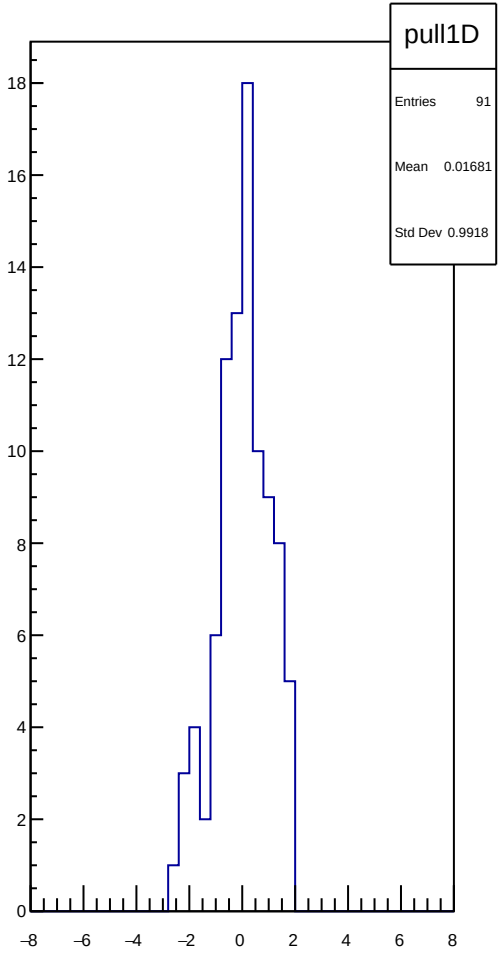

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.45e+04 / 90
p0 93.49 ± 0.07098
180
160
140
120
100
80

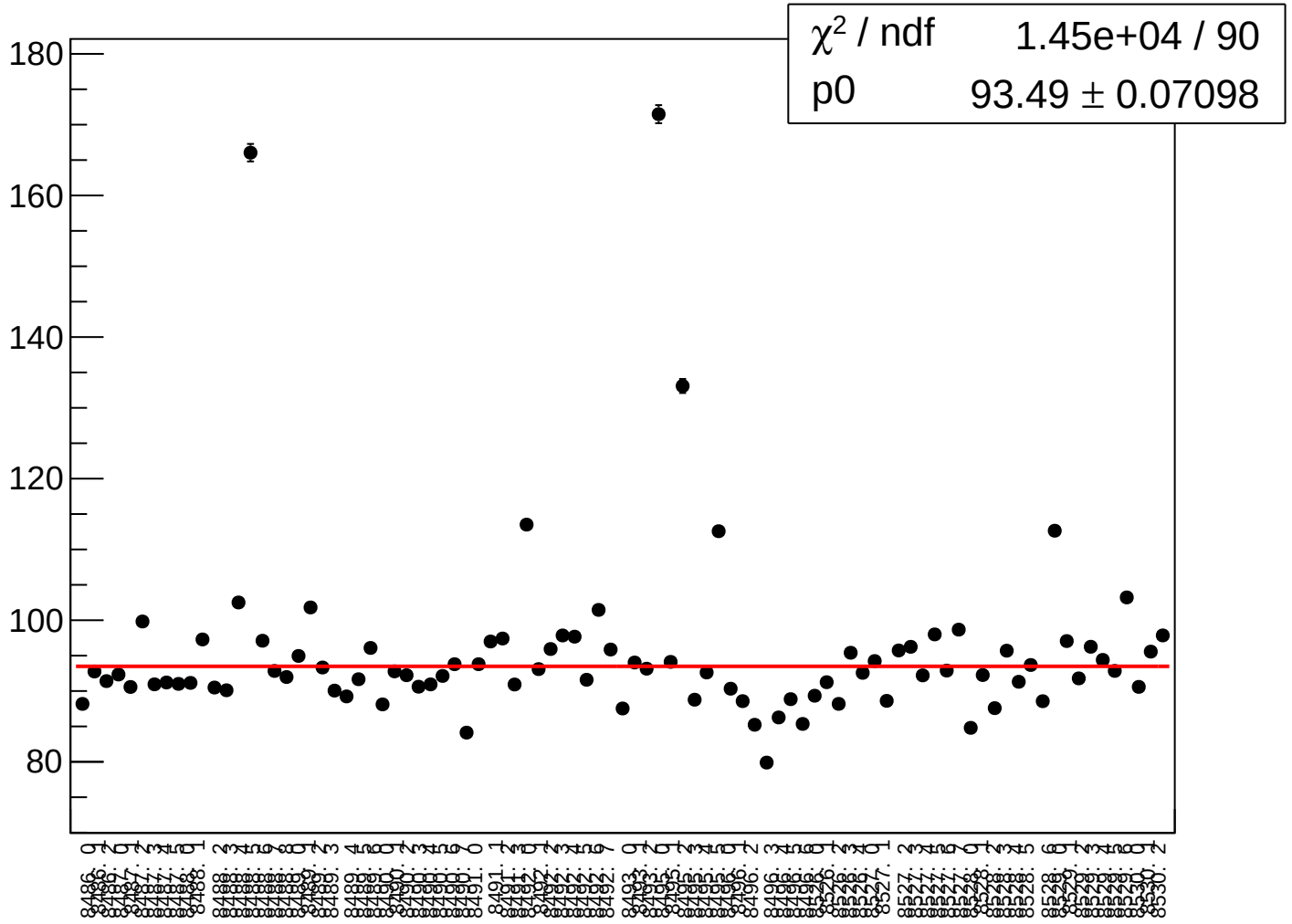

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 77.86 / 90
p0 −2353 ± 1173
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean 122.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

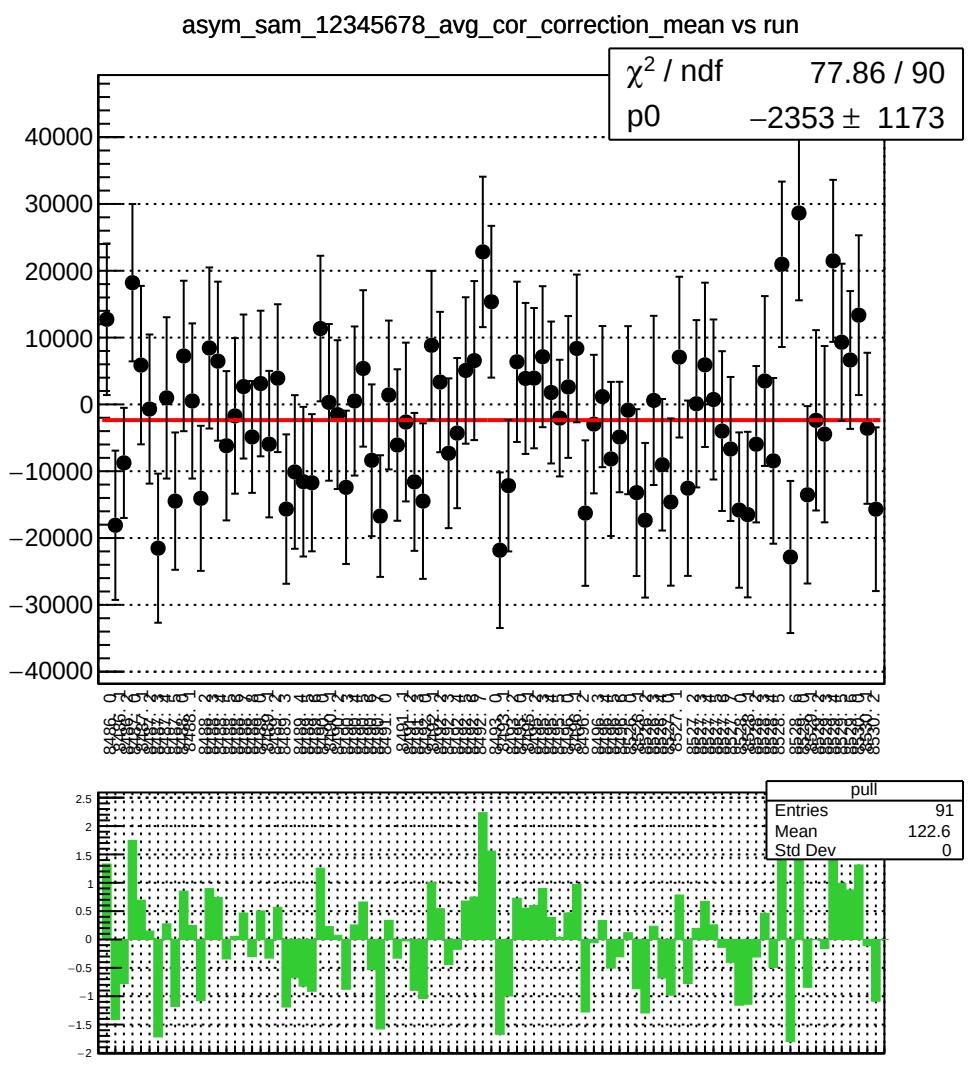

pull1D
Entries 91
Mean 0.01692
Std Dev 0.9248
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

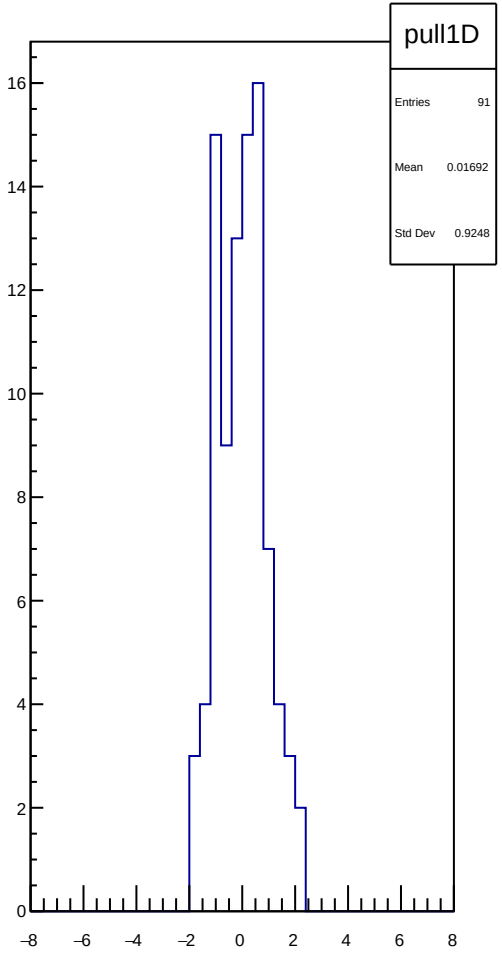

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 6631 / 90
p0 1095 ± 0.8292
1300
1250
1200
1150
1100
1050
1000
950

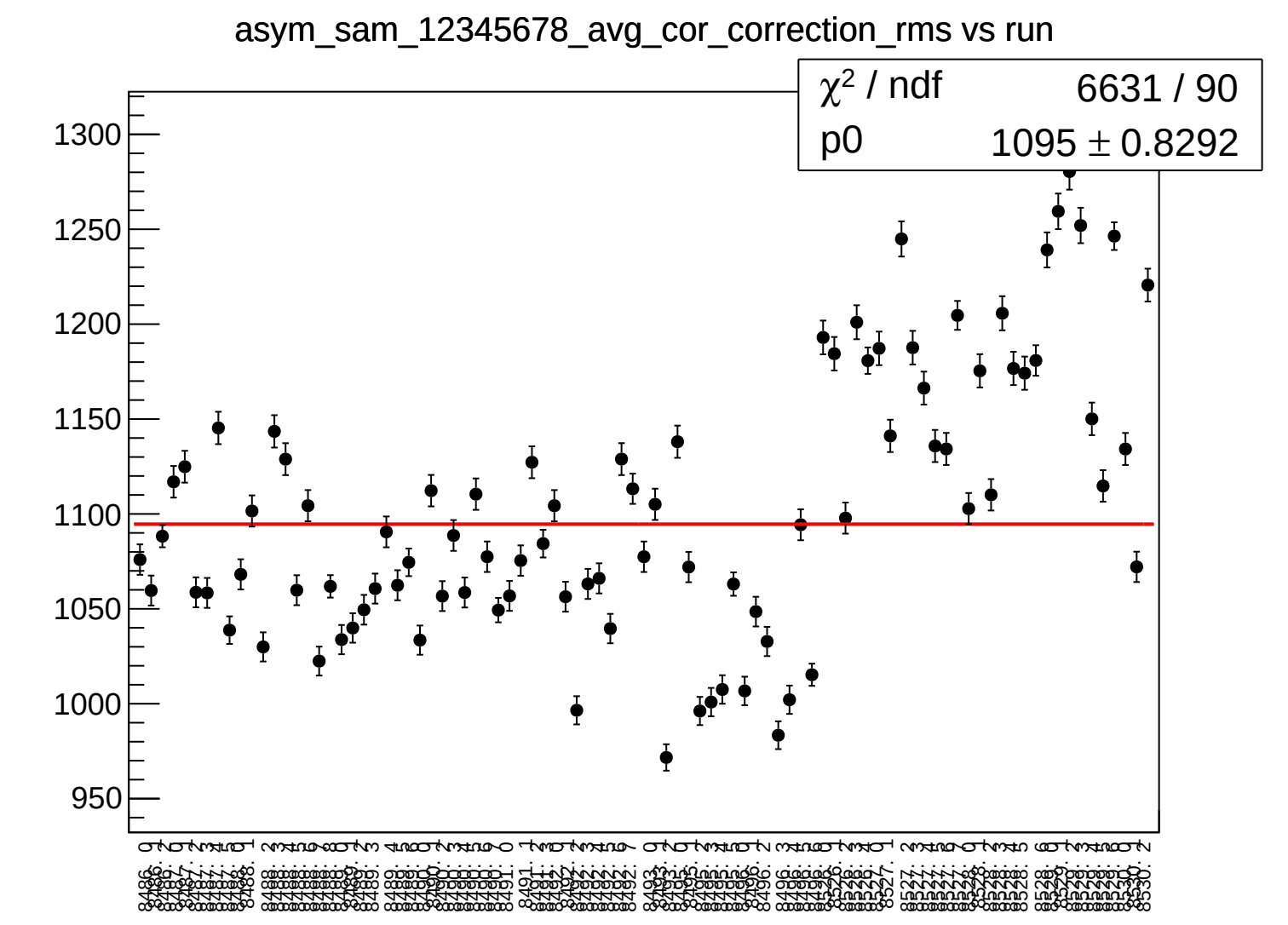

cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 89.55 / 90
p0 296.4 ± 100.4
pull
Entries 91
Mean −357.9
Std Dev 0

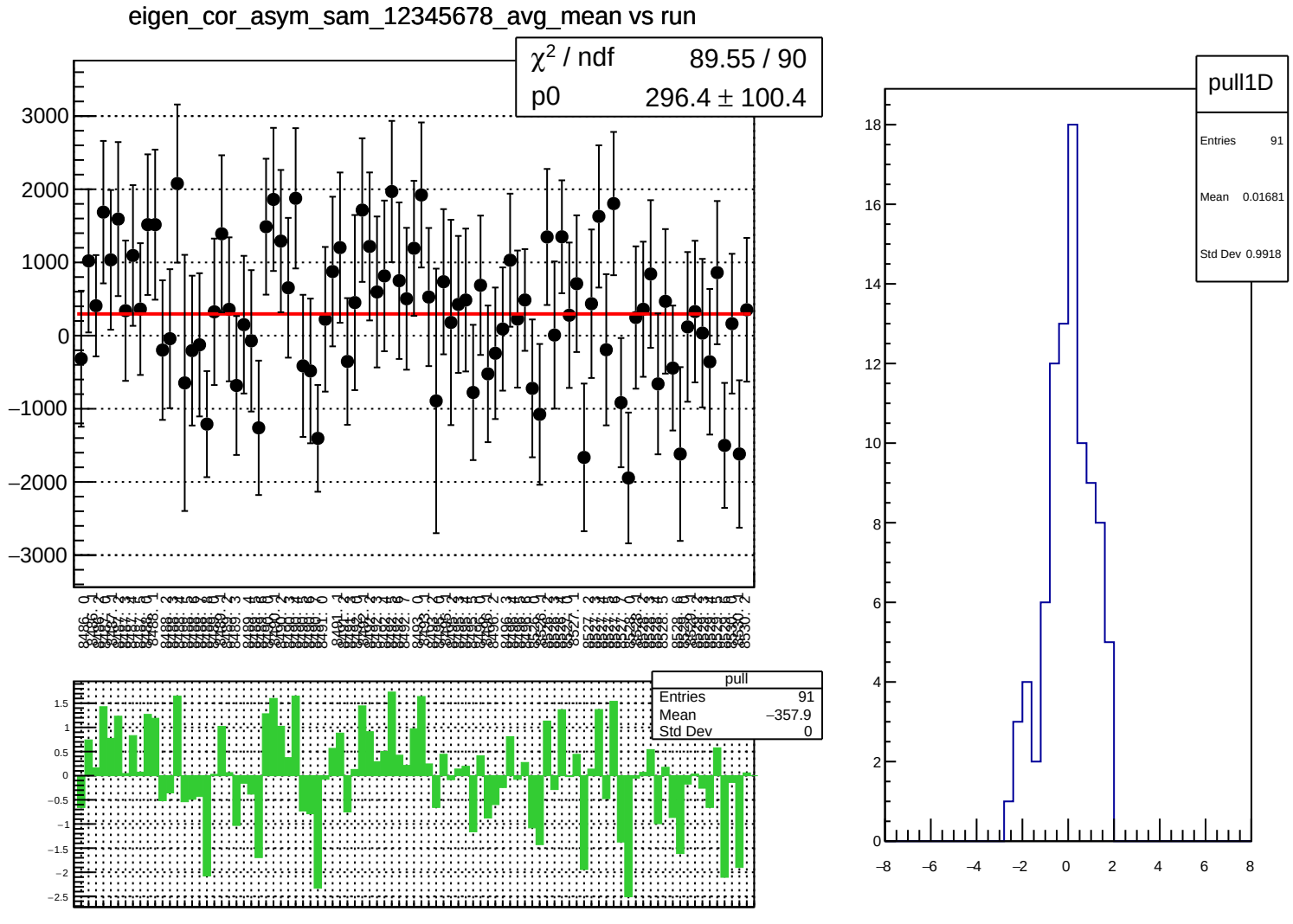

pull1D
Entries 91
Mean 0.01681
Std Dev 0.9918

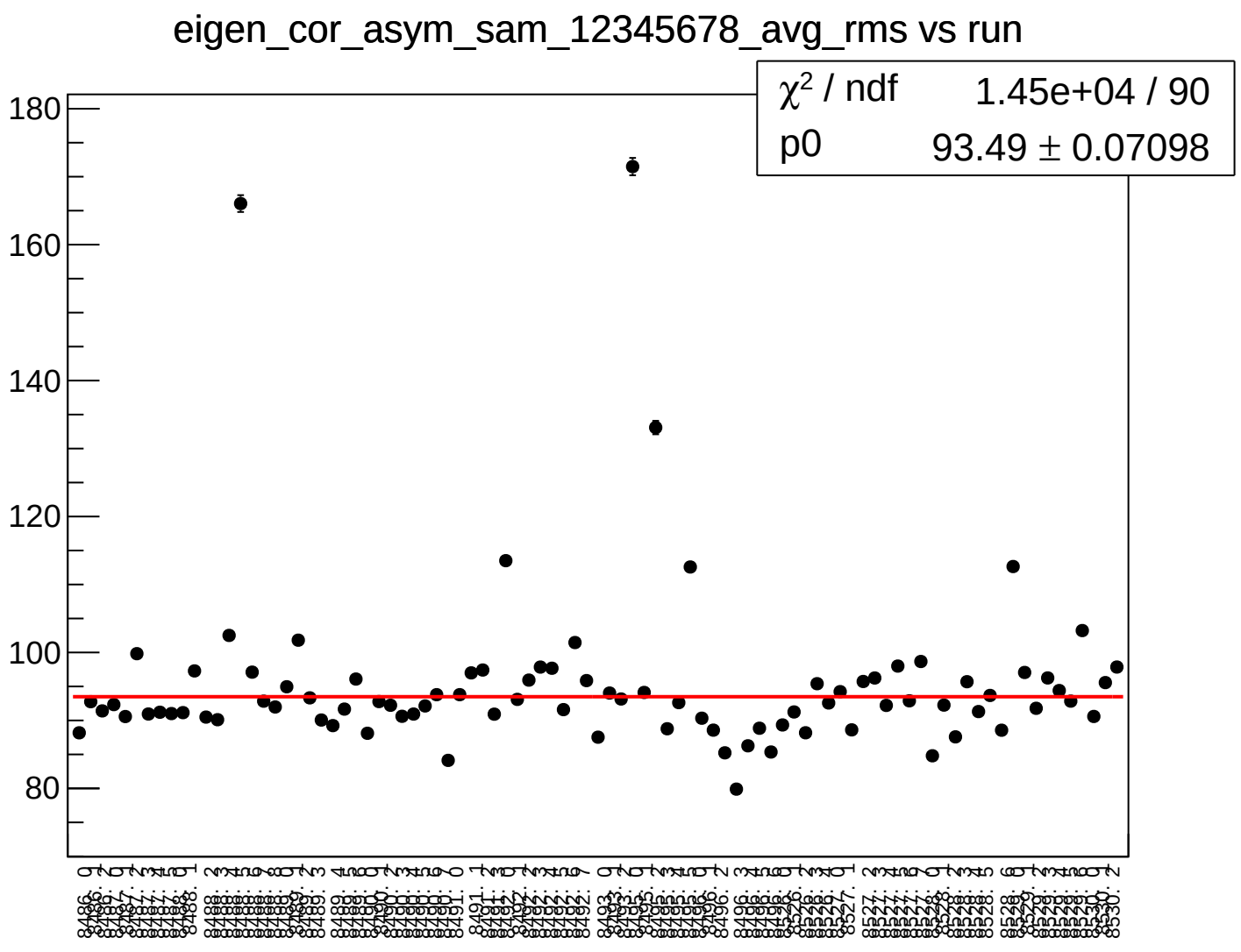

cor_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 1.45e+04 / 90
p0 93.49 ± 0.07098
180
160
140
120
100
80

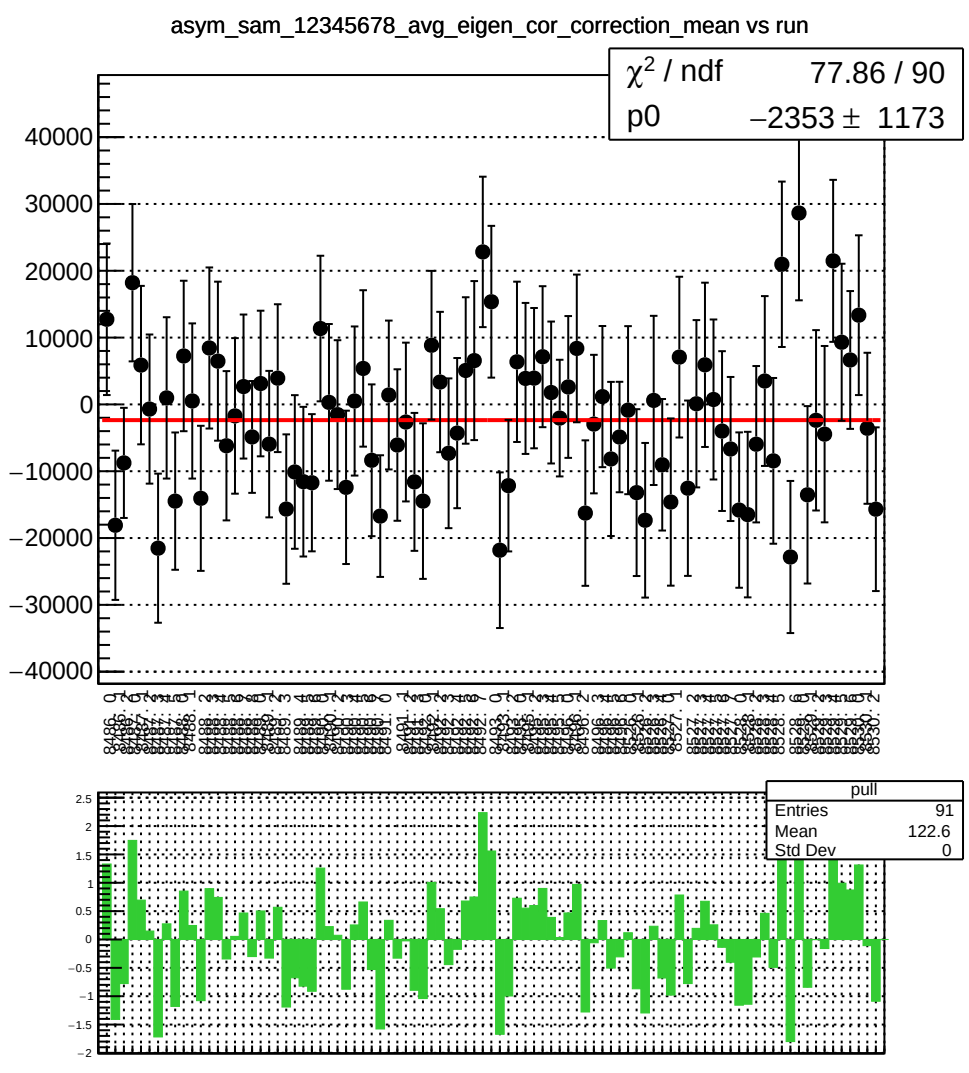

asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 77.86 / 90
p0 −2353 ± 1173
pull
Entries 91
Mean 122.6
Std Dev 0

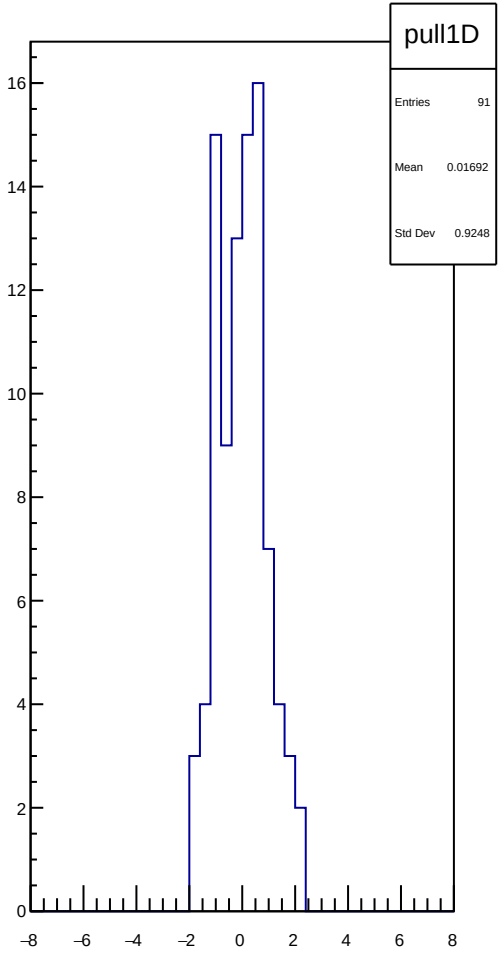

pull1D
Entries 91
Mean 0.01692
Std Dev 0.9248

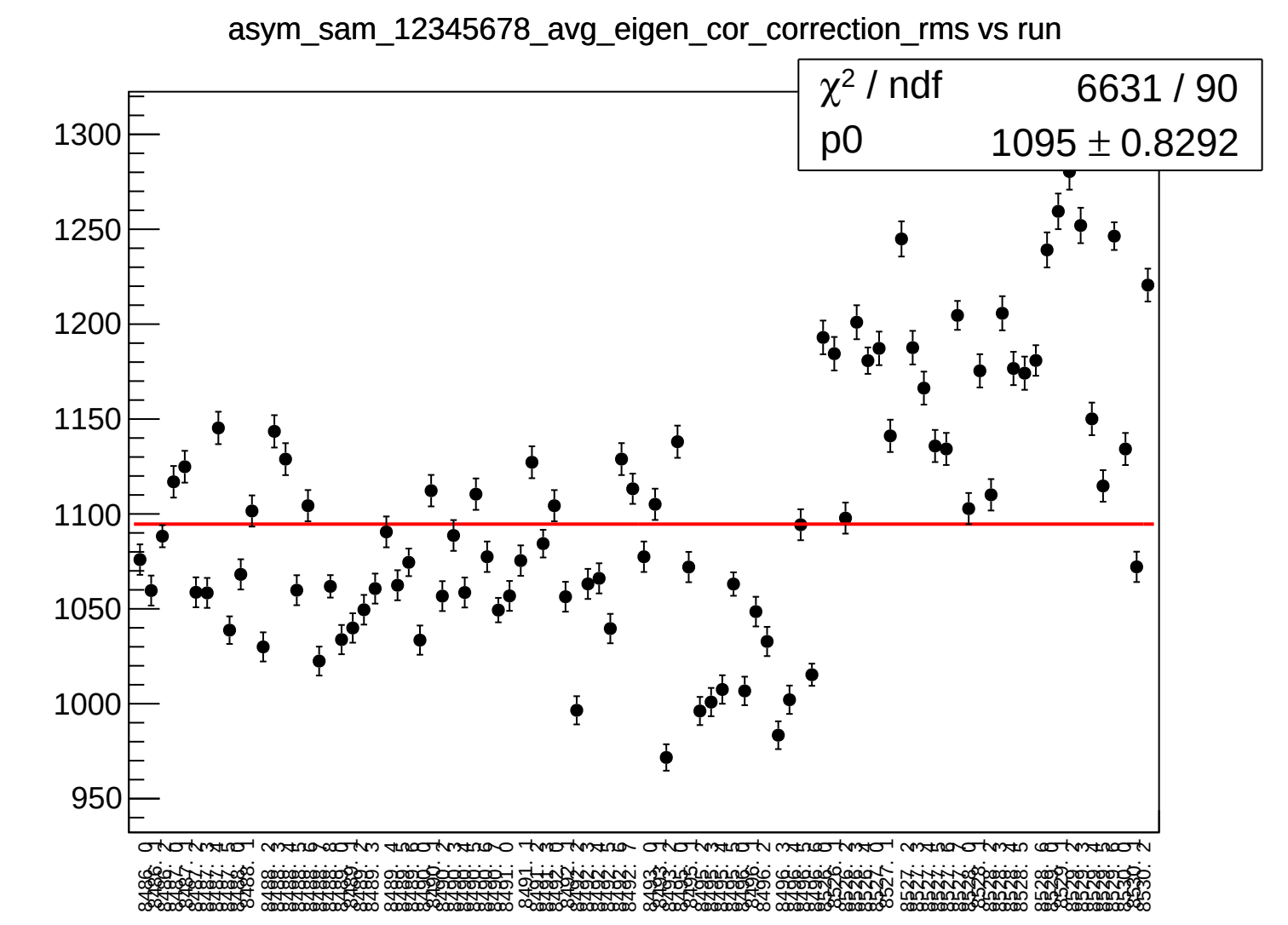

asym_sam_12345678_avg_cor_correction_rms vs run
χ² / ndf 6631 / 90
p0 1095 ± 0.8292
1300
1250
1200
1150
1100
1050
1000
950

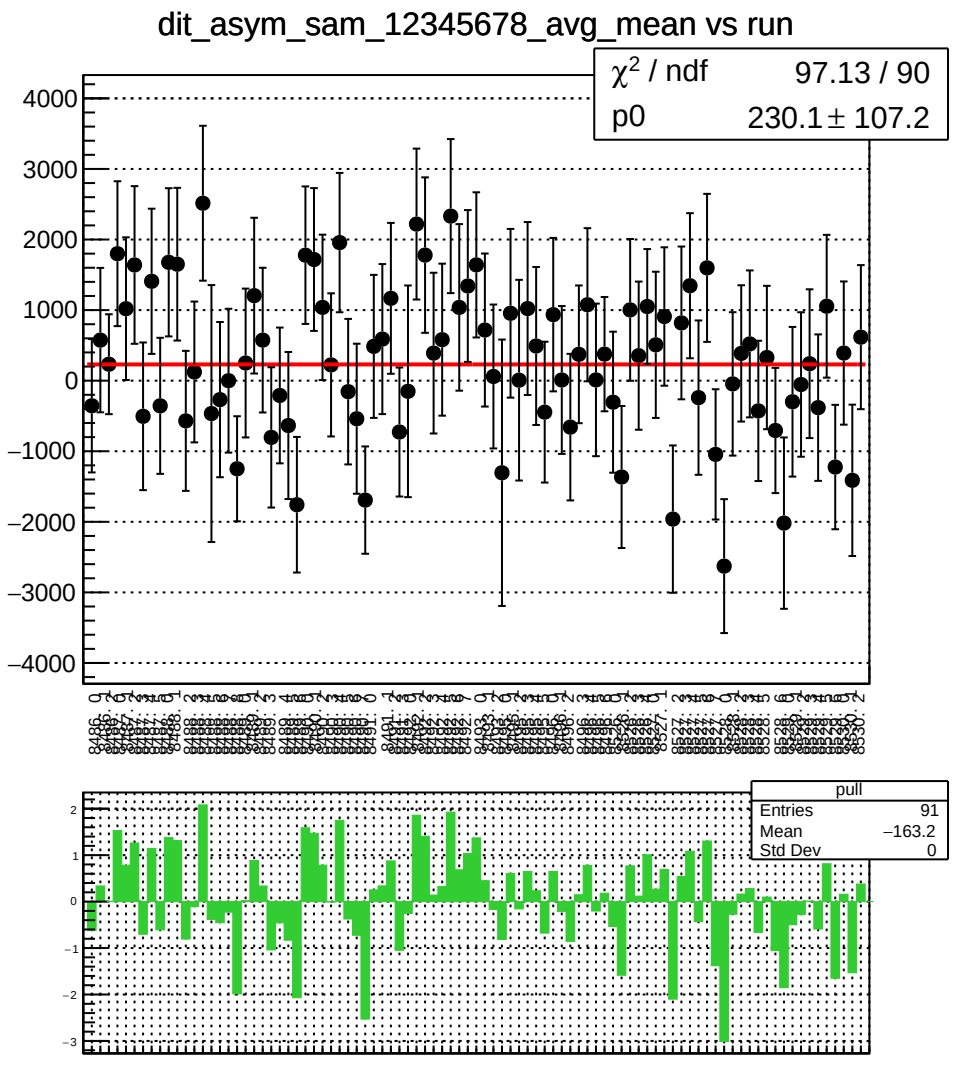

eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 89.55 / 90
p0 296.4 ± 100.4
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 91
Mean −357.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 91
Mean 0.01681
Std Dev 0.9918
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

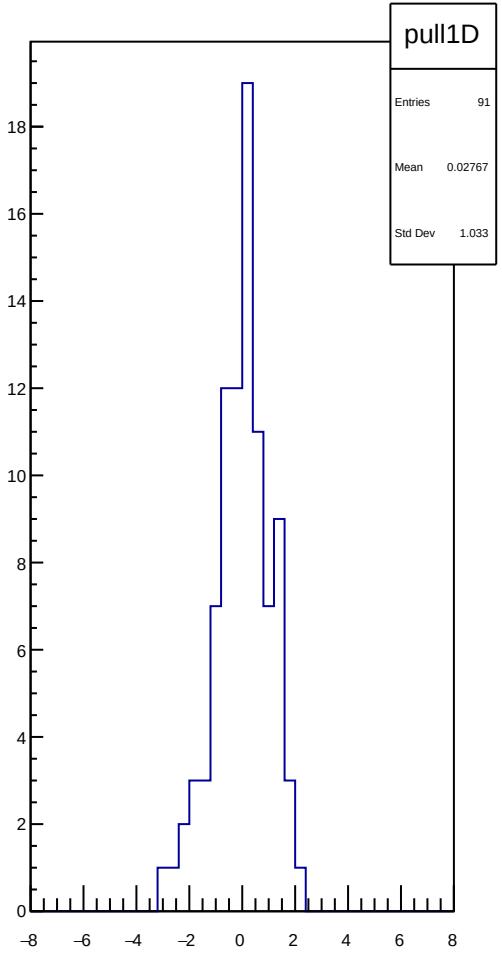

eigen_cor_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 1.45e+04 / 90
p0 93.49 ± 0.07098
180
160
140
120
100
80

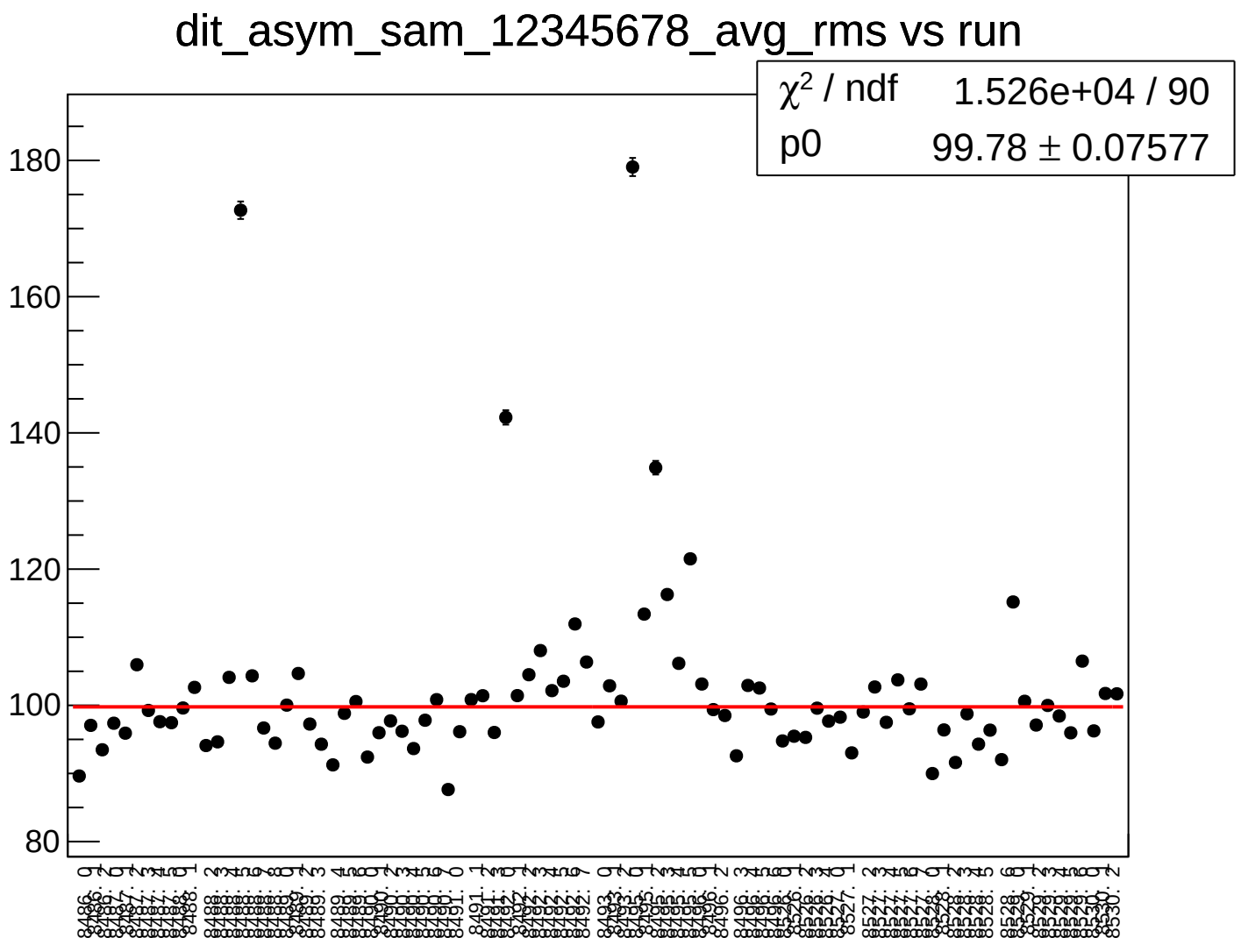

asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 77.86 / 90
p0 −2353 ± 1173
pull
Entries 91
Mean 122.6
Std Dev 0

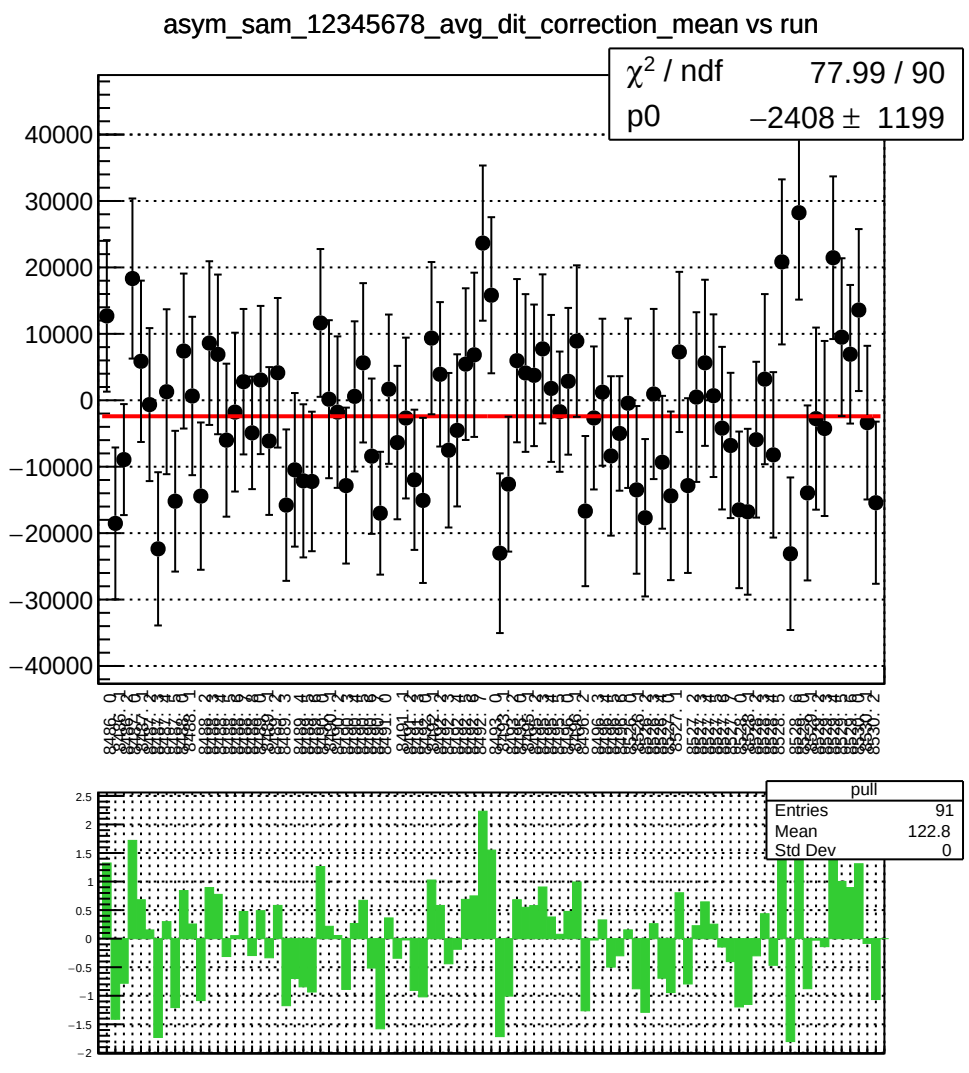

pull1D
Entries 91
Mean 0.01692
Std Dev 0.9248

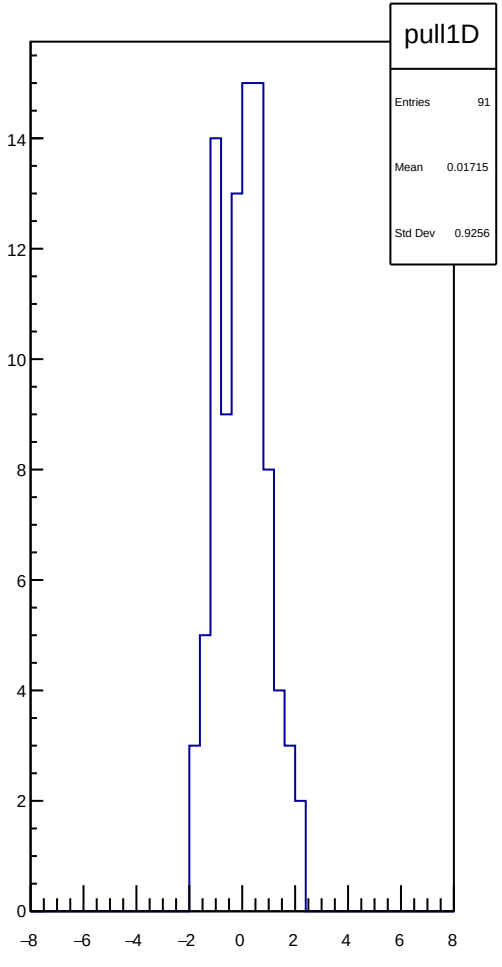

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 6631 / 90
p0 1095 ± 0.8292
1300
1250
1200
1150
1100
1050
1000
950

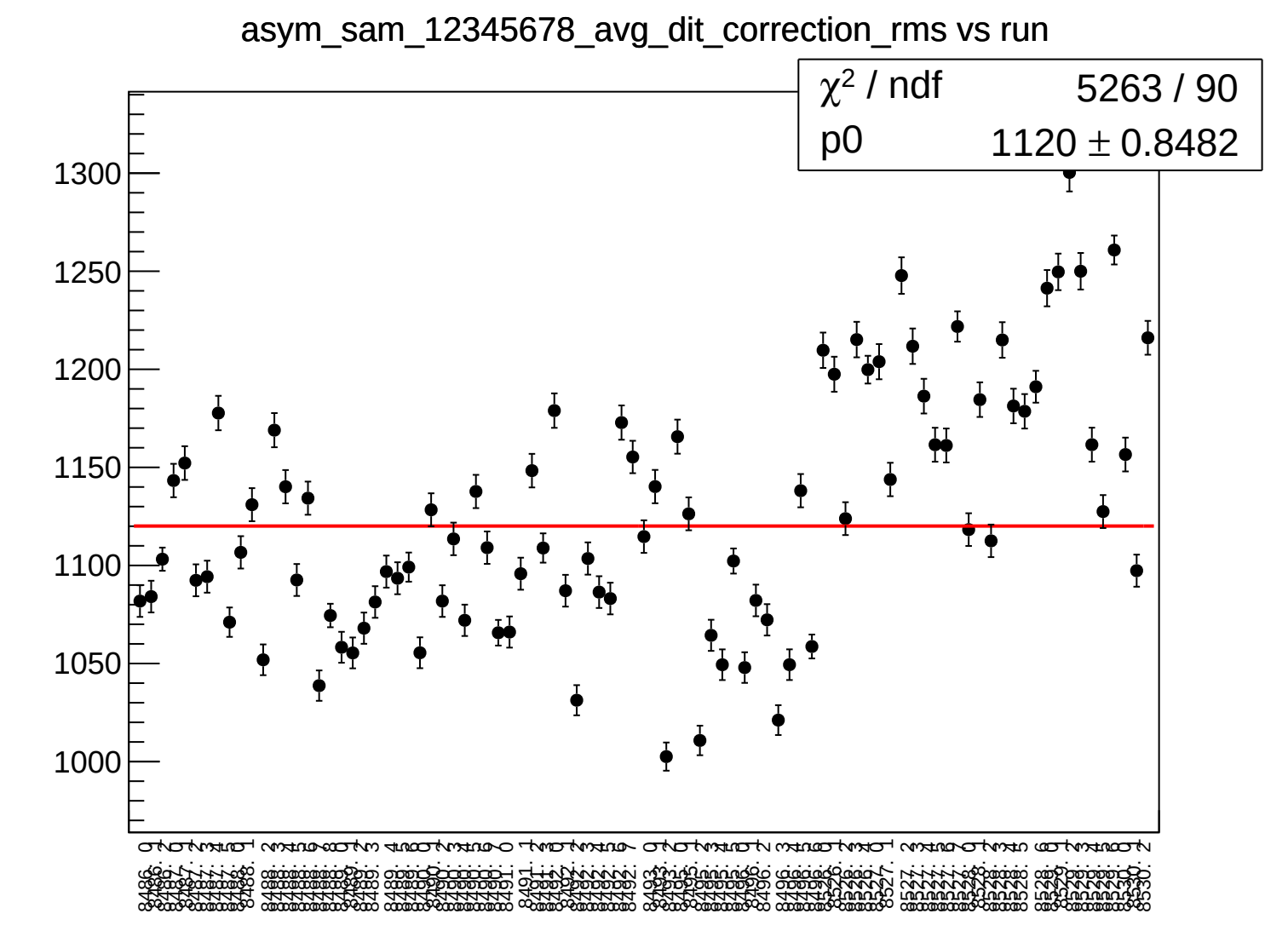

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 97.13 / 90
p0 230.1 ± 107.2
pull
Entries 91
Mean −163.2
Std Dev 0

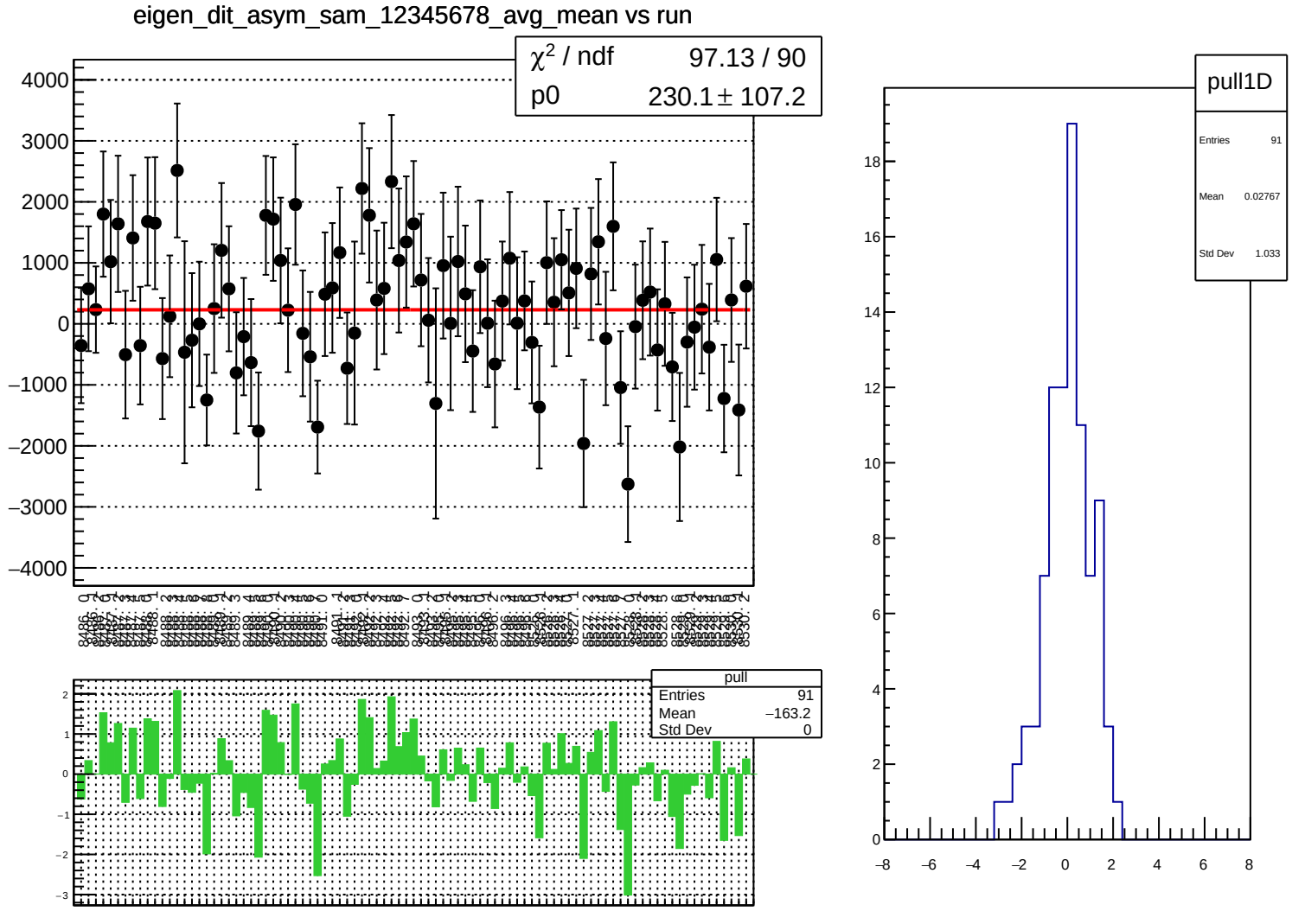

pull1D
Entries 91
Mean 0.02767
Std Dev 1.033

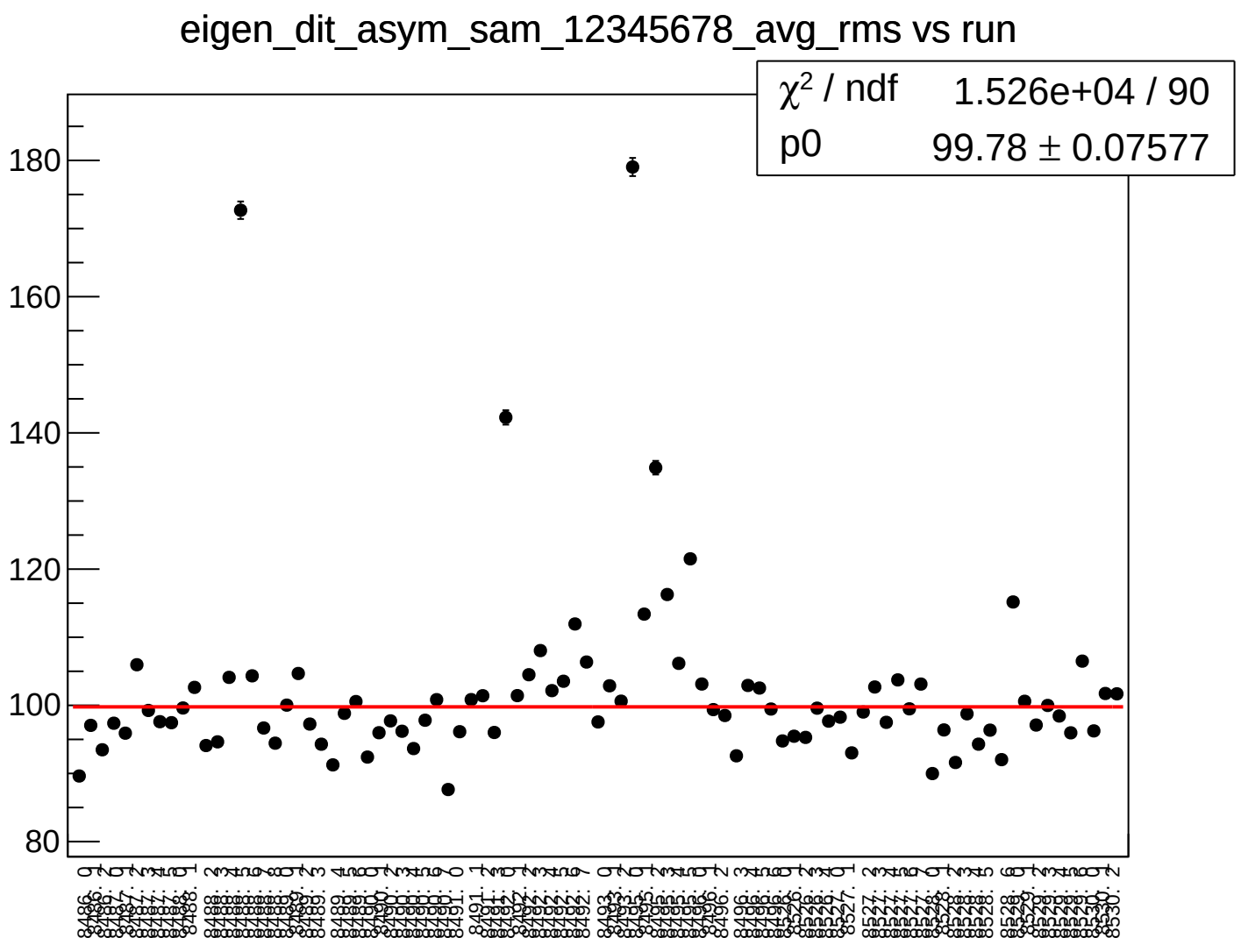

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.526e+04 / 90
p0 99.78 ± 0.07577
180
160
140
120
100
80

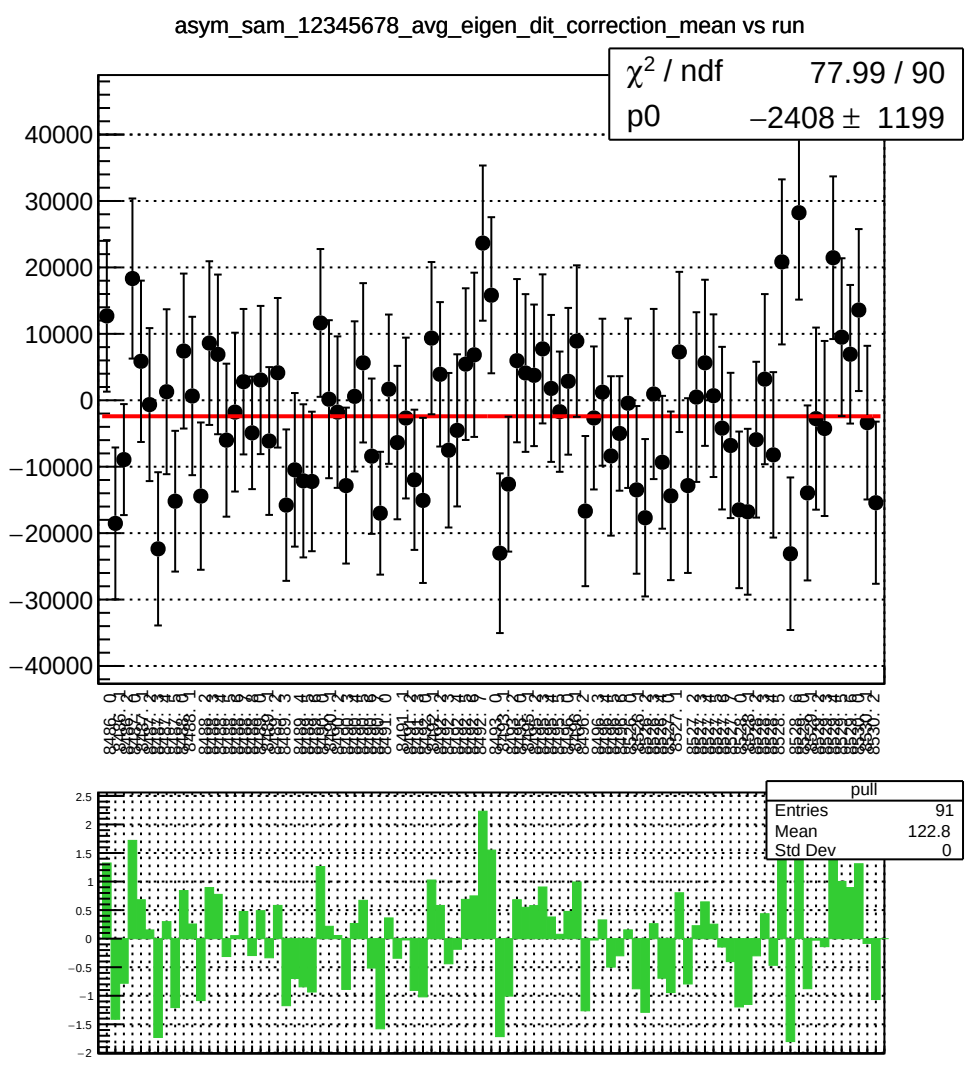

asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 77.99 / 90
p0 −2408 ± 1199
pull
Entries 91
Mean 122.8
Std Dev 0

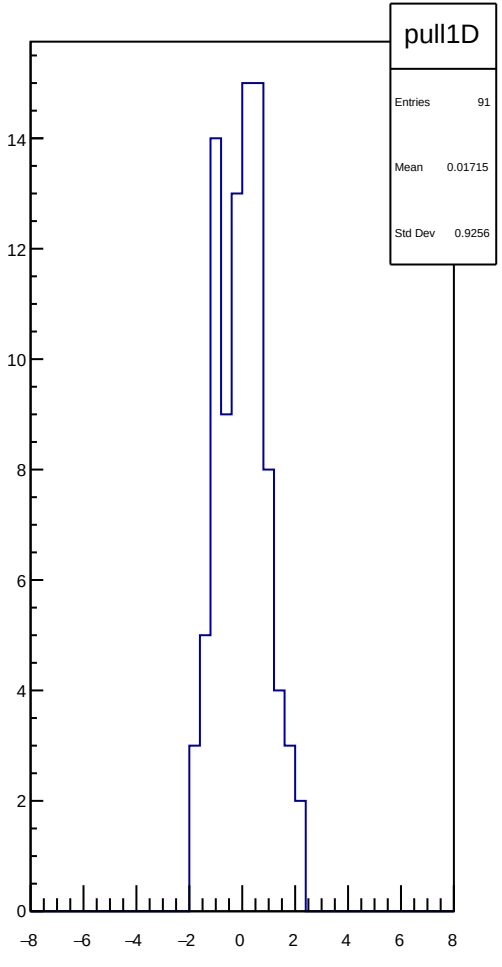

pull1D
Entries 91
Mean 0.01715
Std Dev 0.9256

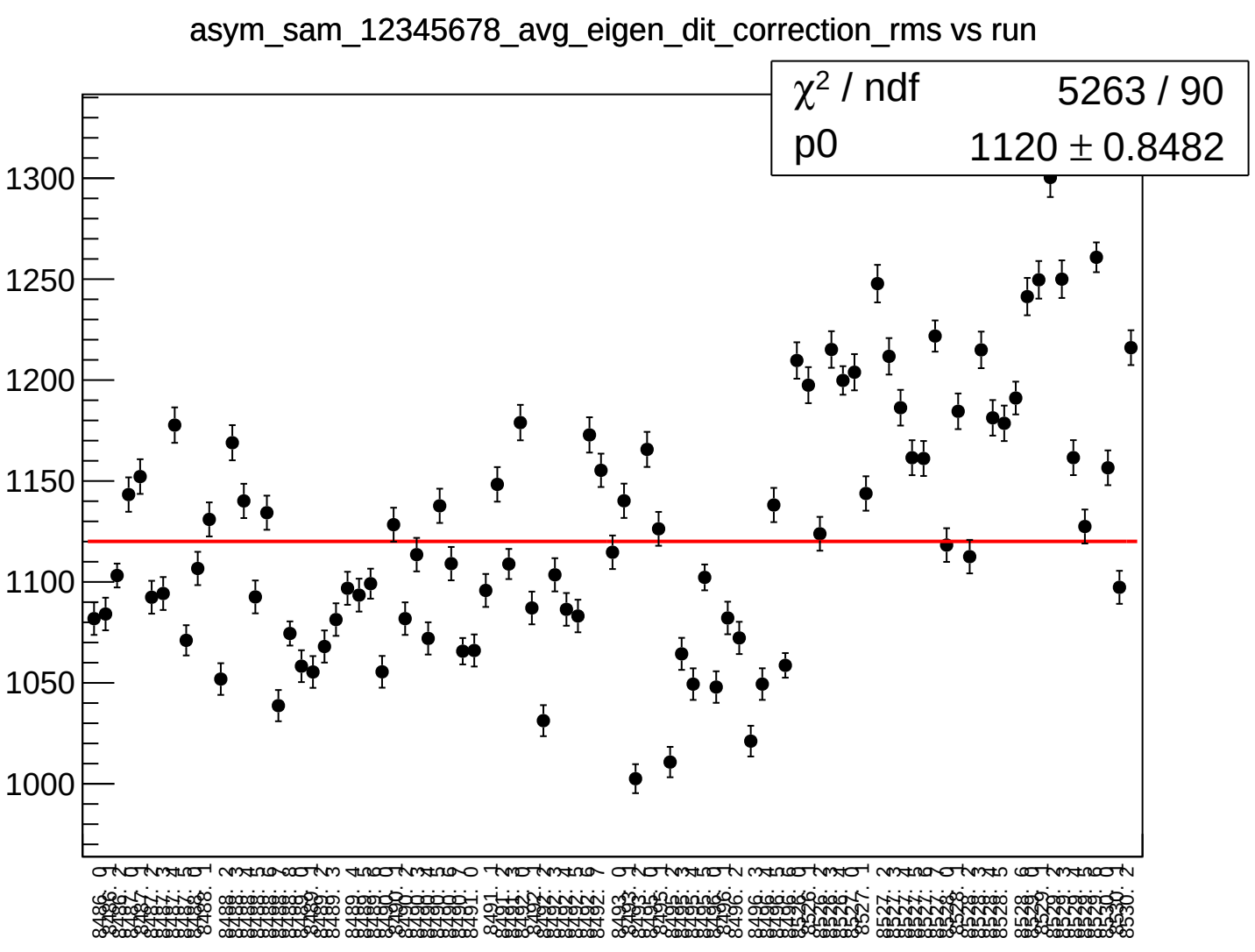

asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 5263 / 90
p0 1120 ± 0.8482
1300
1250
1200
1150
1100
1050
1000

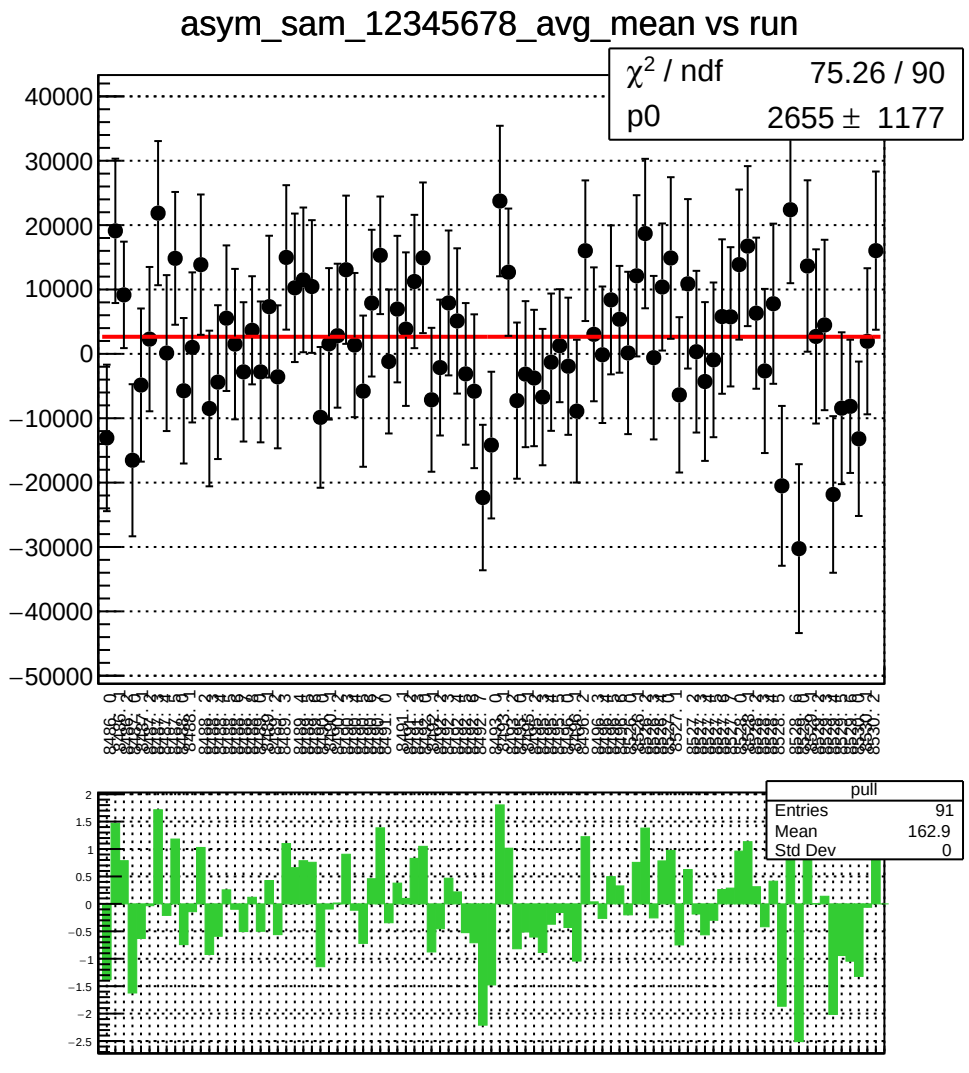

eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 97.13 / 90
p0 230.1 ± 107.2
pull
Entries 91
Mean −163.2
Std Dev 0
pull1D
Entries 91
Mean 0.02767
Std Dev 1.033

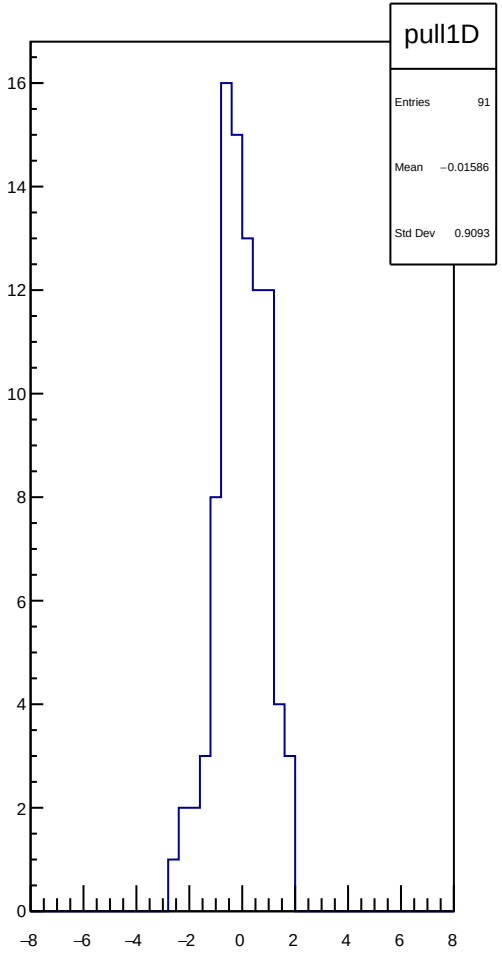

eigen_dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.526e+04 / 90
p0 99.78 ± 0.07577
180
160
140
120
100
80

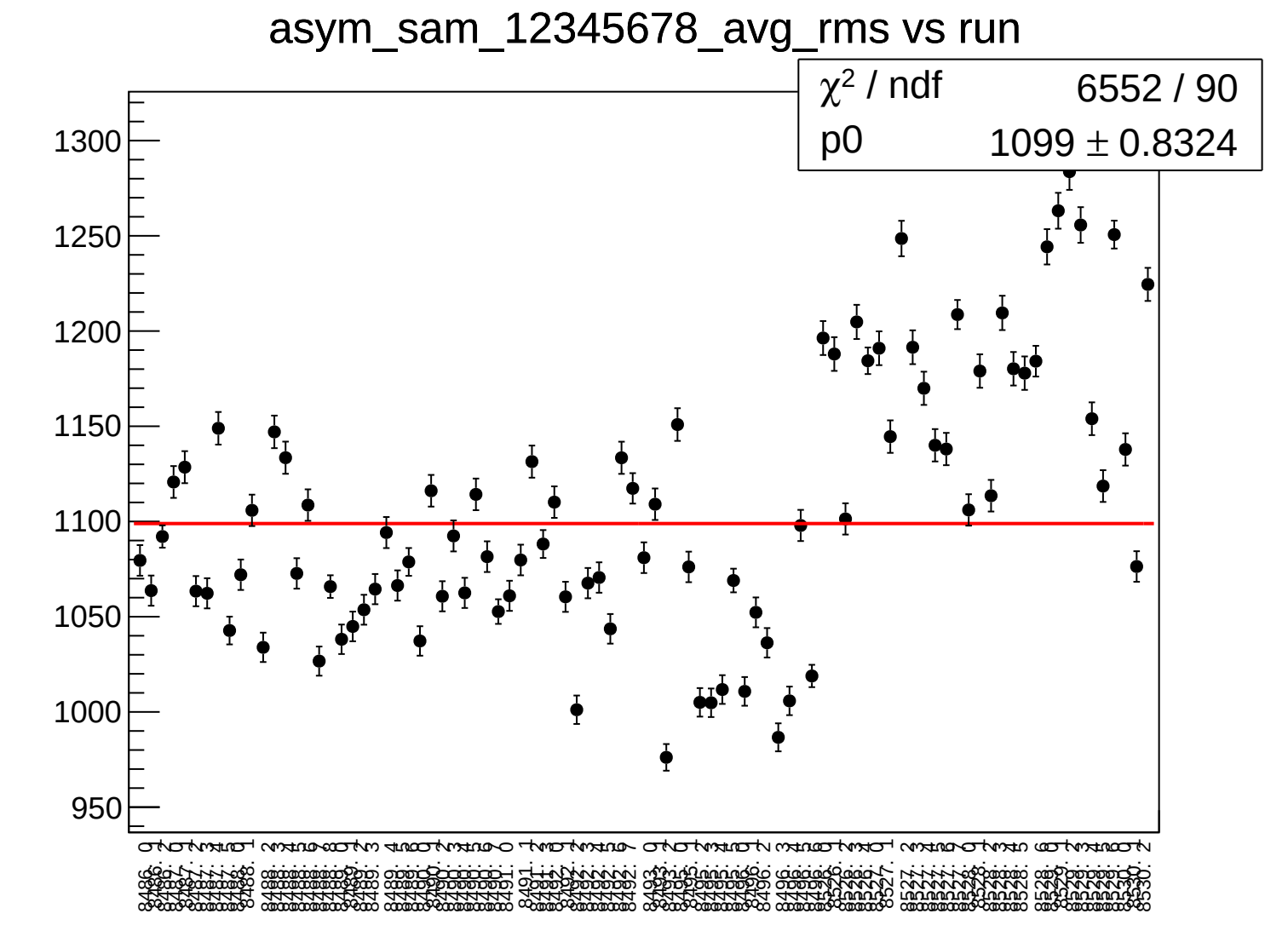

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 77.99 / 90
p0 −2408 ± 1199
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean 122.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

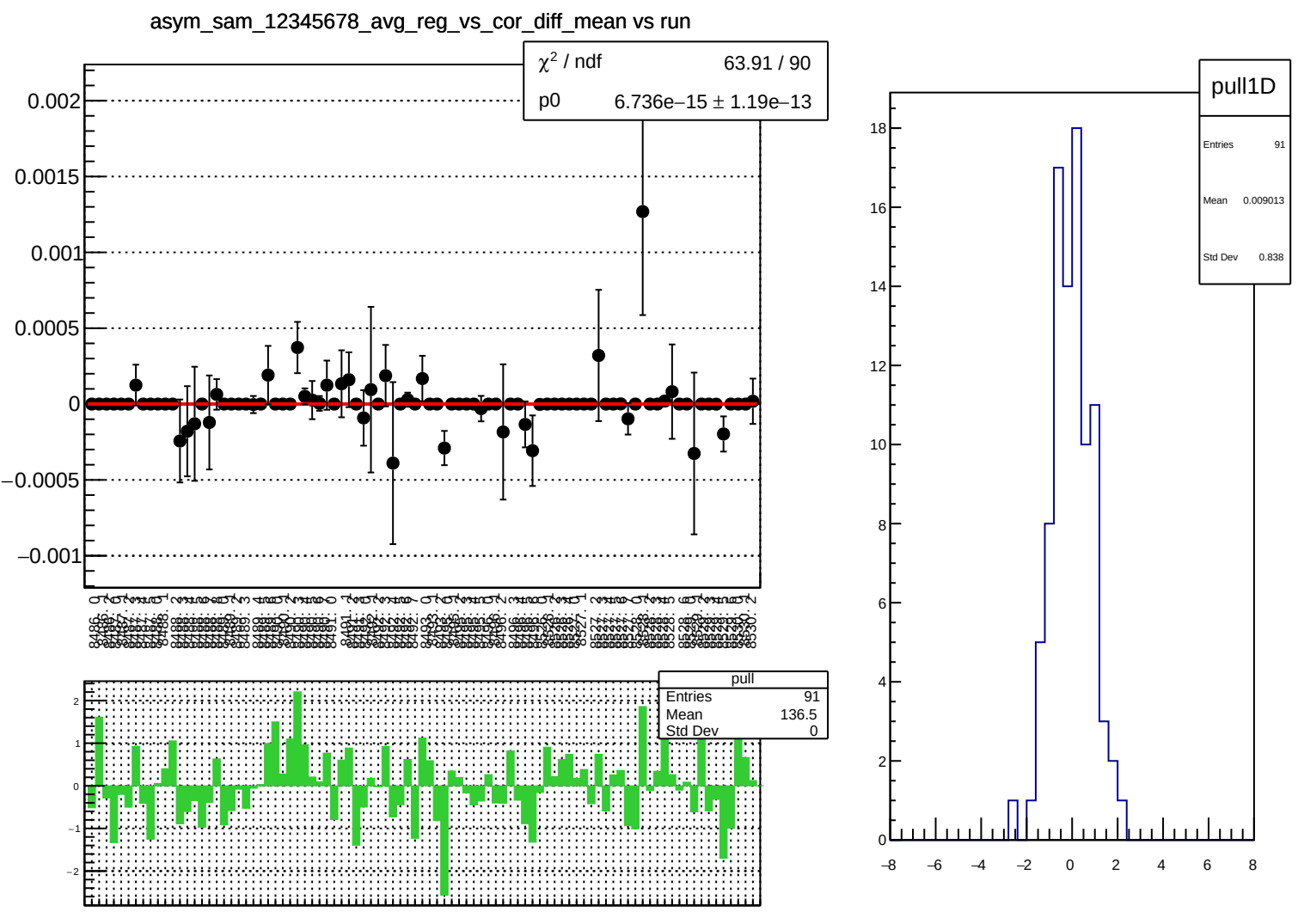

pull1D
Entries 91
Mean 0.01715
Std Dev 0.9256
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

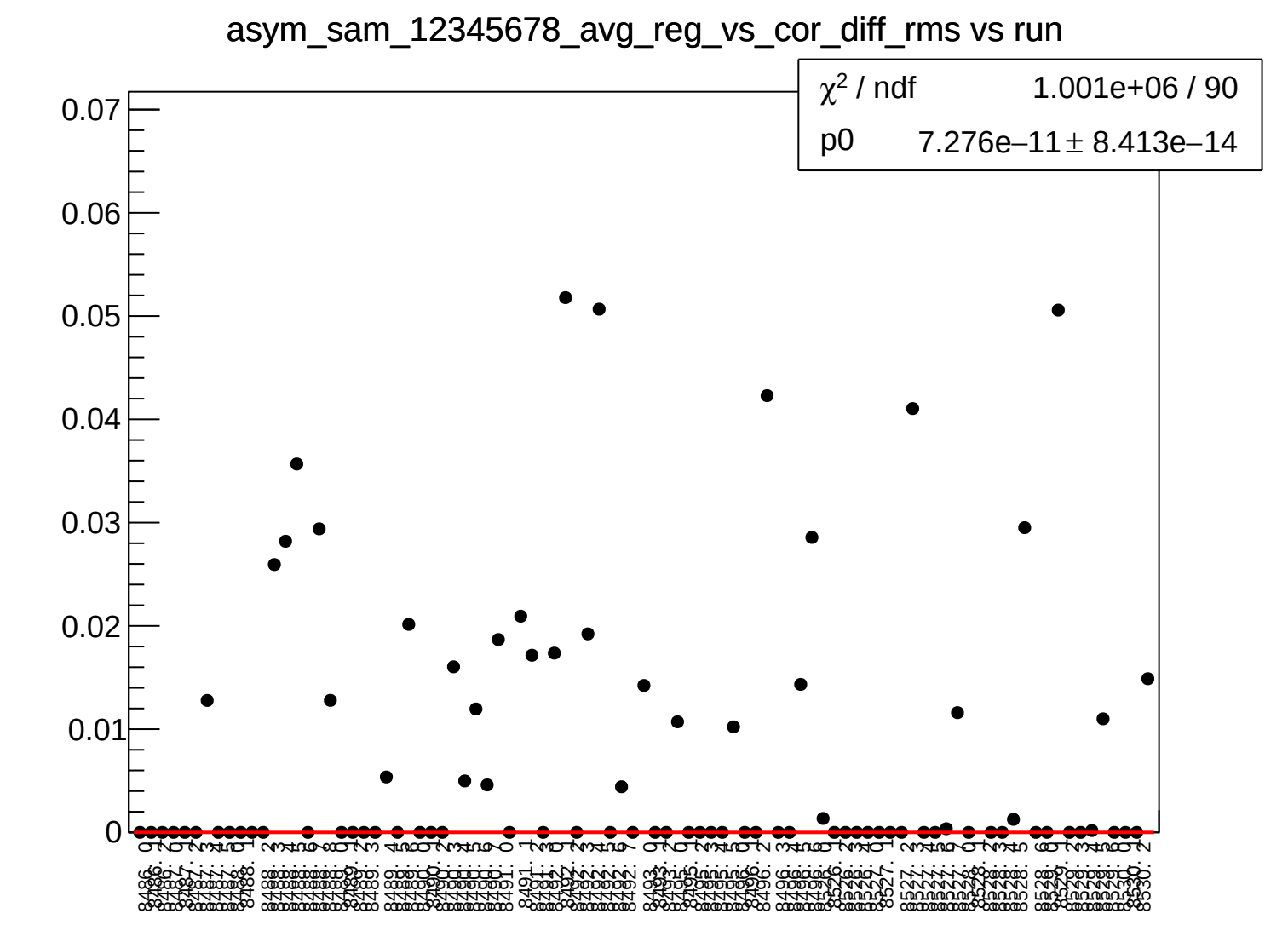

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 5263 / 90
p0 1120 ± 0.8482
1300
1250
1200
1150
1100
1050
1000

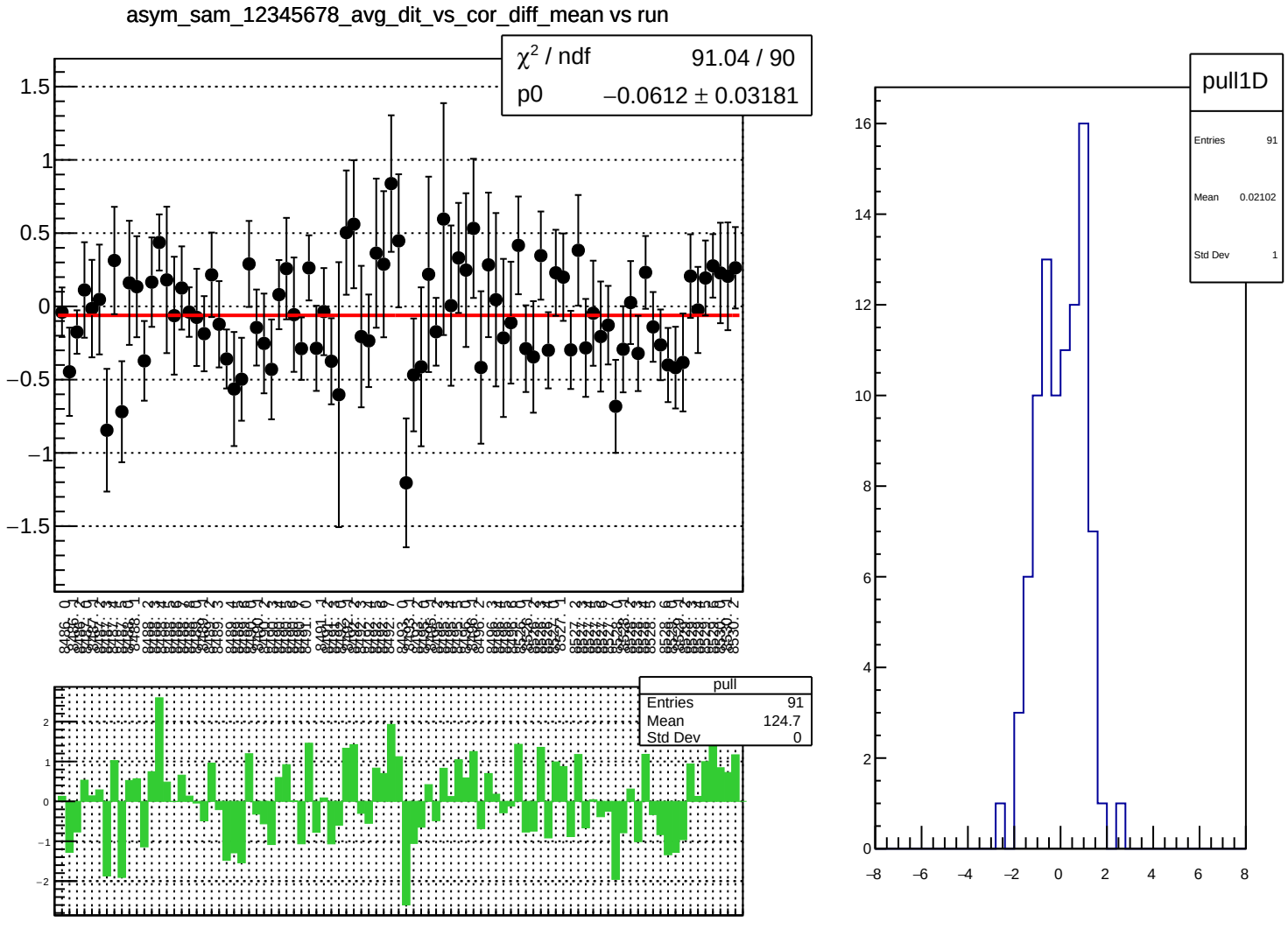

asym_sam_12345678_avg_mean vs run
χ² / ndf 75.26 / 90
p0 2655 ± 1177
pull
Entries 91
Mean 162.9
Std Dev 0

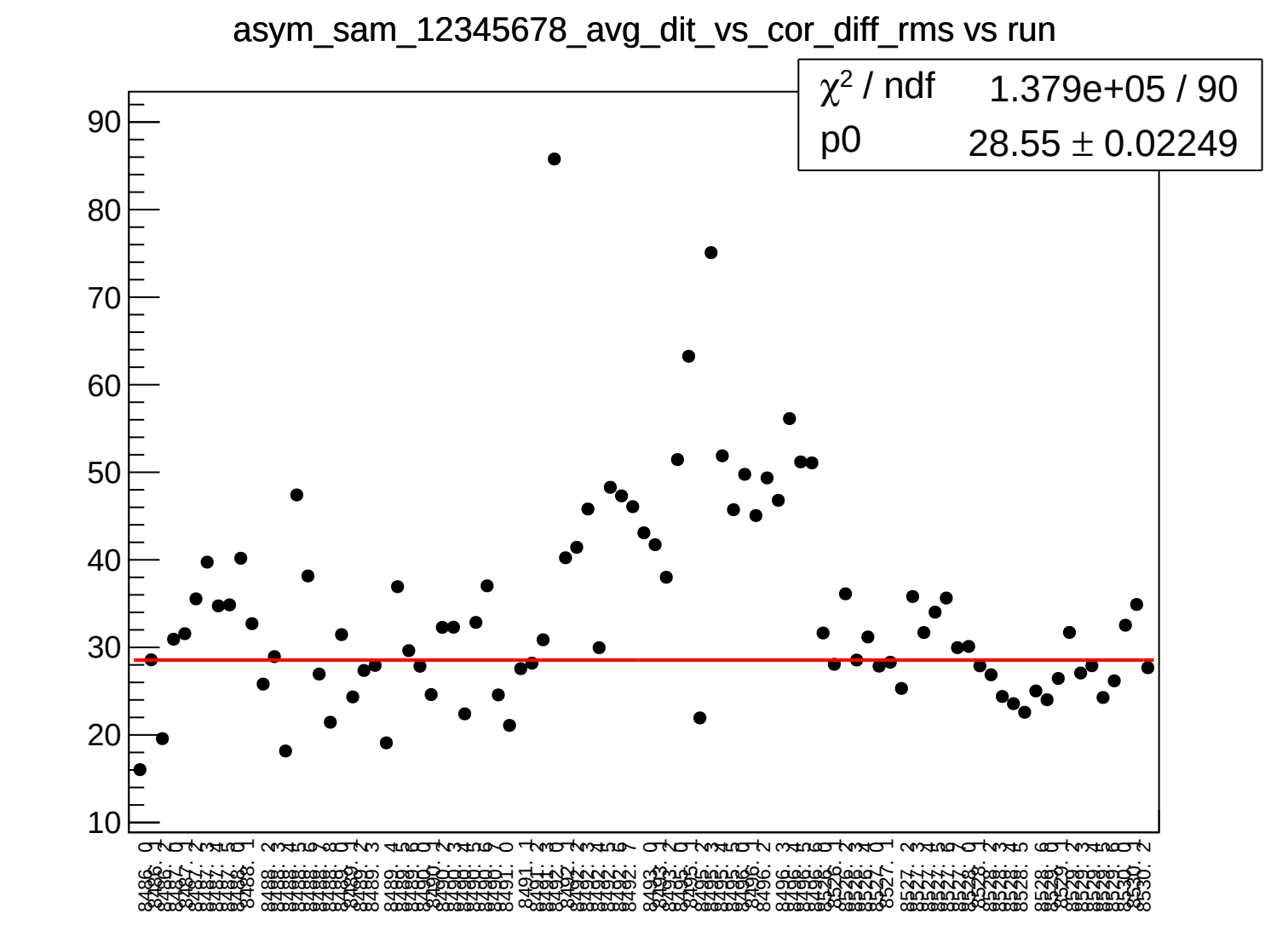

pull1D
Entries 91
Mean −0.01586
Std Dev 0.9093

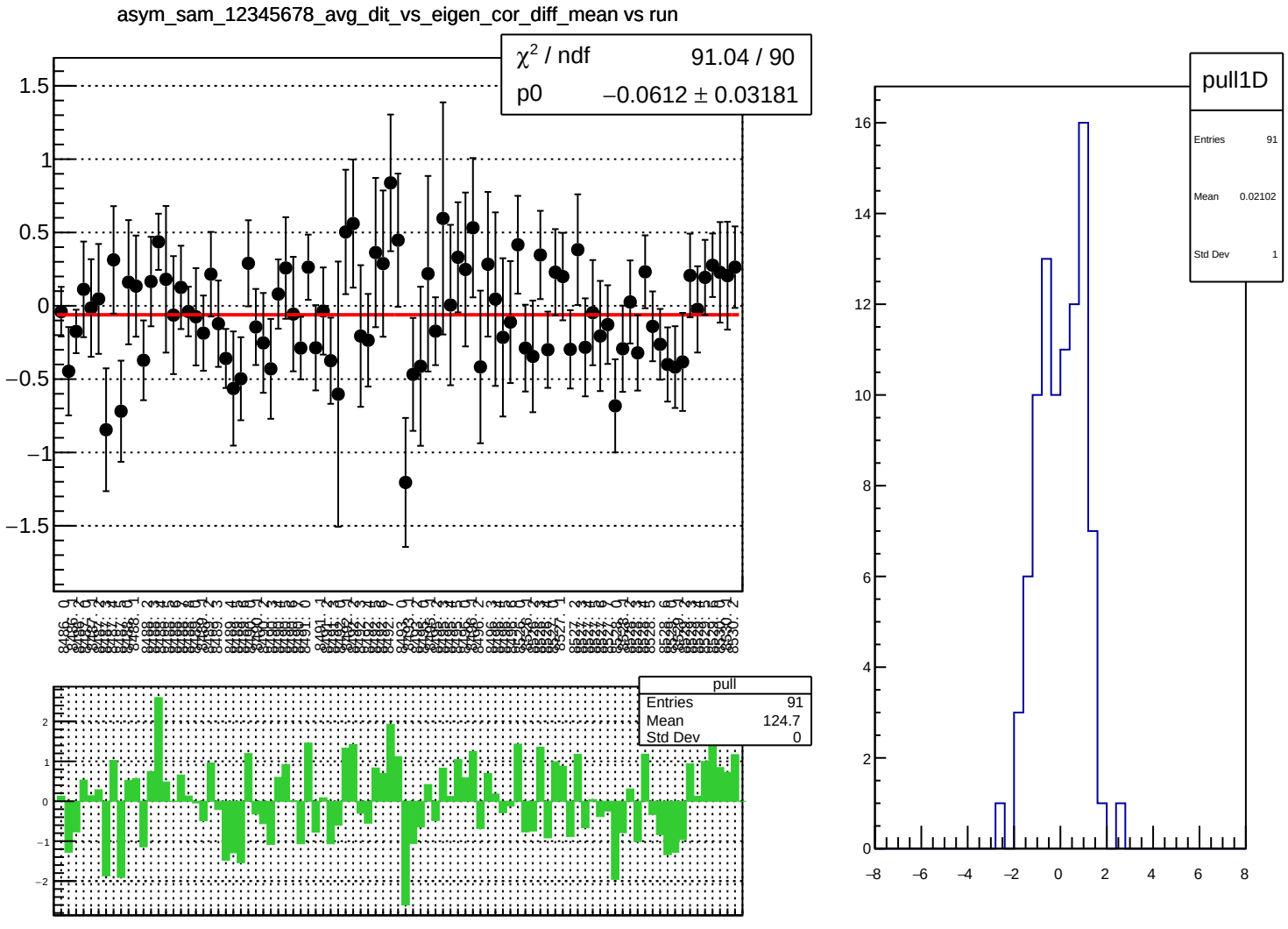

asym_sam_12345678_avg_rms vs run
χ² / ndf 6552 / 90
p0 1099 ± 0.8324
1300
1250
1200
1150
1100
1050
1000
950

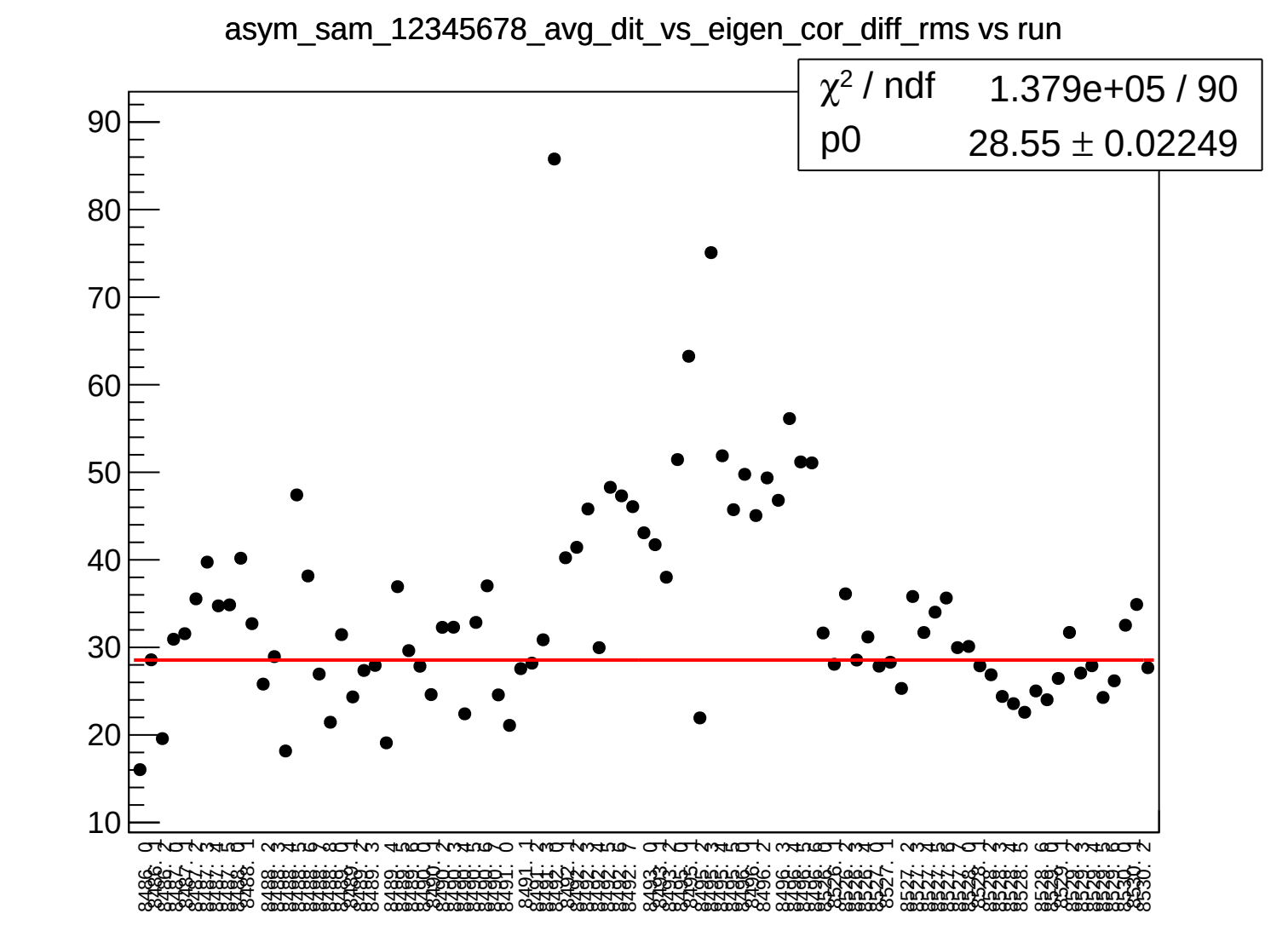

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 63.91 / 90
p0 6.736e−15 ± 1.19e−13
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 91
Mean 136.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.009013
Std Dev 0.838
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

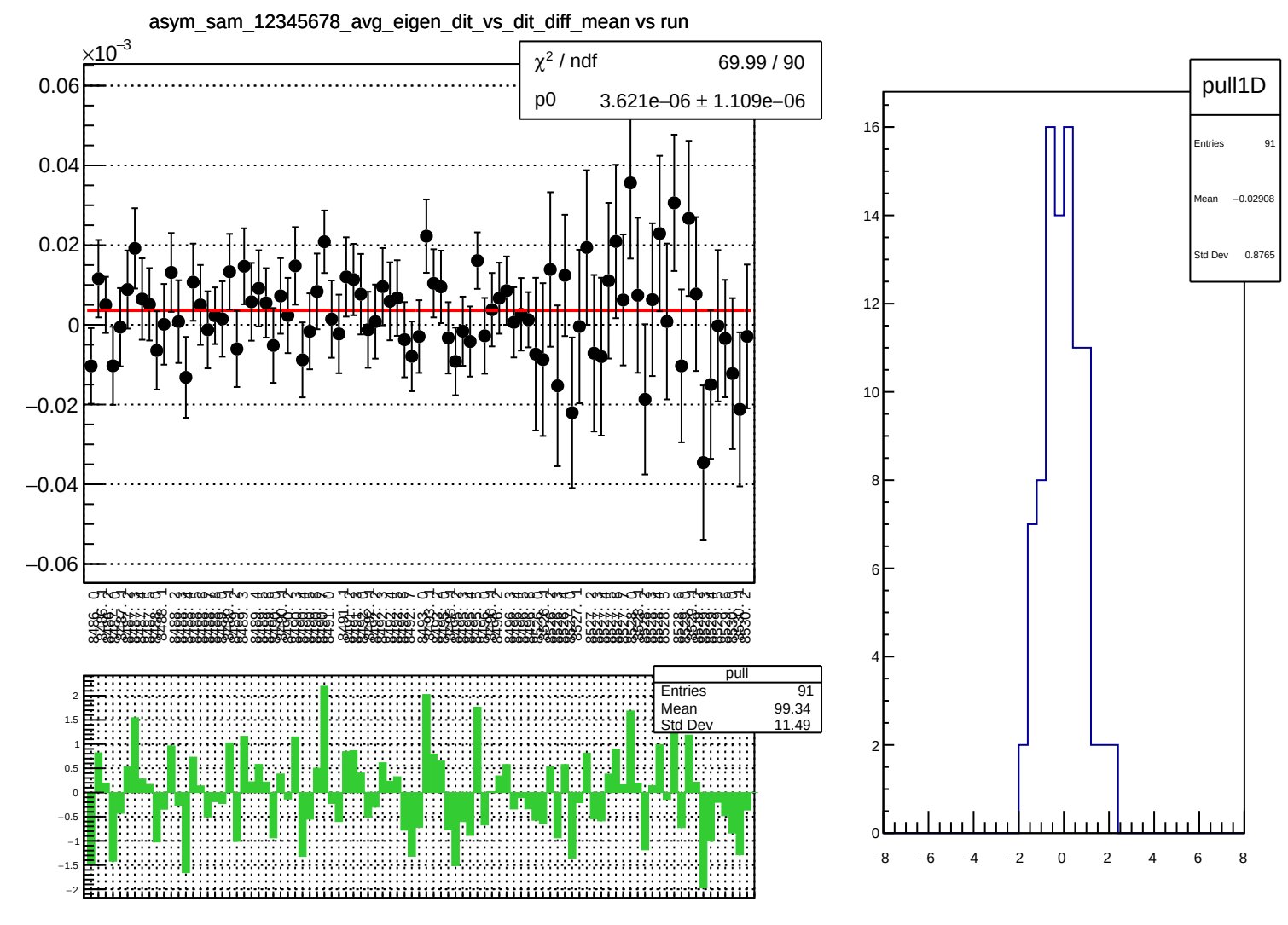

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.001e+06 / 90
p0 7.276e−11 ± 8.413e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

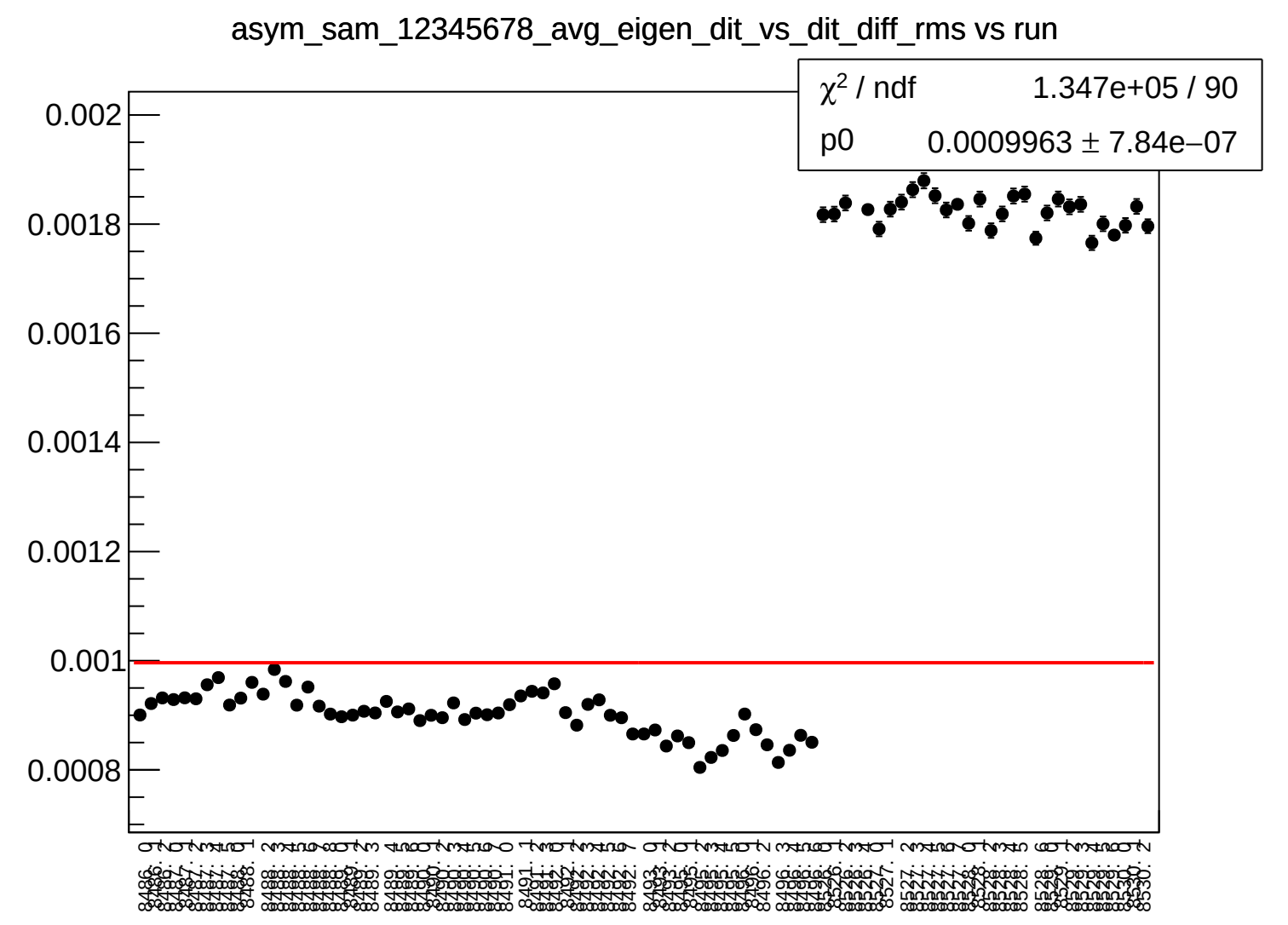

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 91.04 / 90
p0 −0.0612 ± 0.03181
pull
Entries 91
Mean 124.7
Std Dev 0
pull1D
Entries 91
Mean 0.02102
Std Dev 1

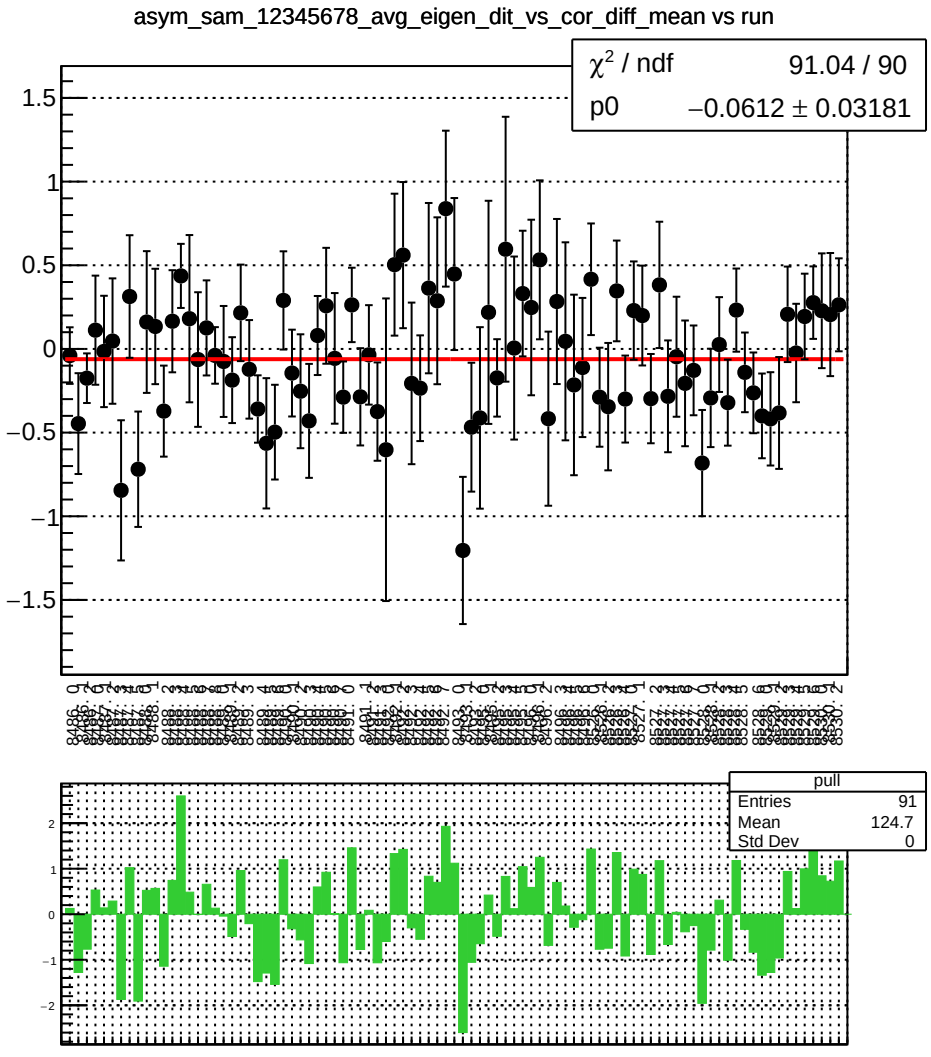

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.379e+05 / 90
p0 28.55 ± 0.02249
90
80
70
60
50
40
30
20
10

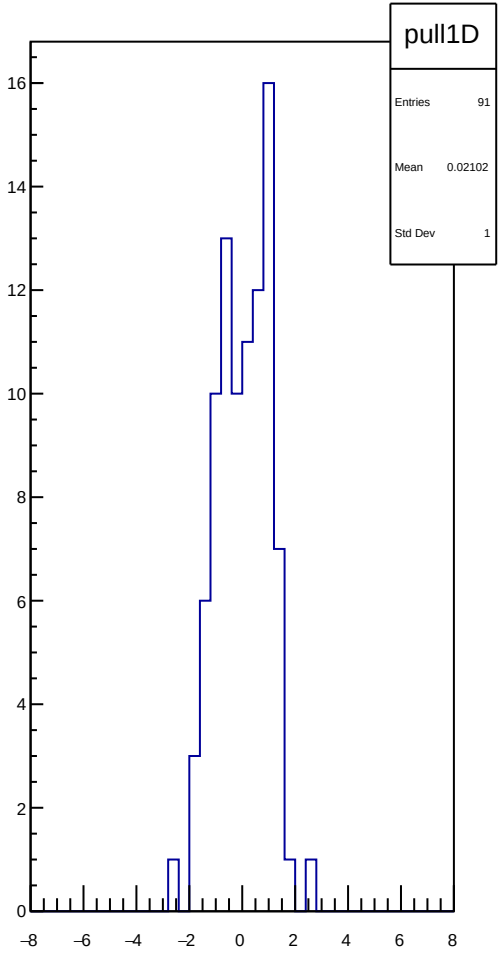

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.04 / 90
p0 −0.0612 ± 0.03181
pull
Entries 91
Mean 124.7
Std Dev 0
pull1D
Entries 91
Mean 0.02102
Std Dev 1

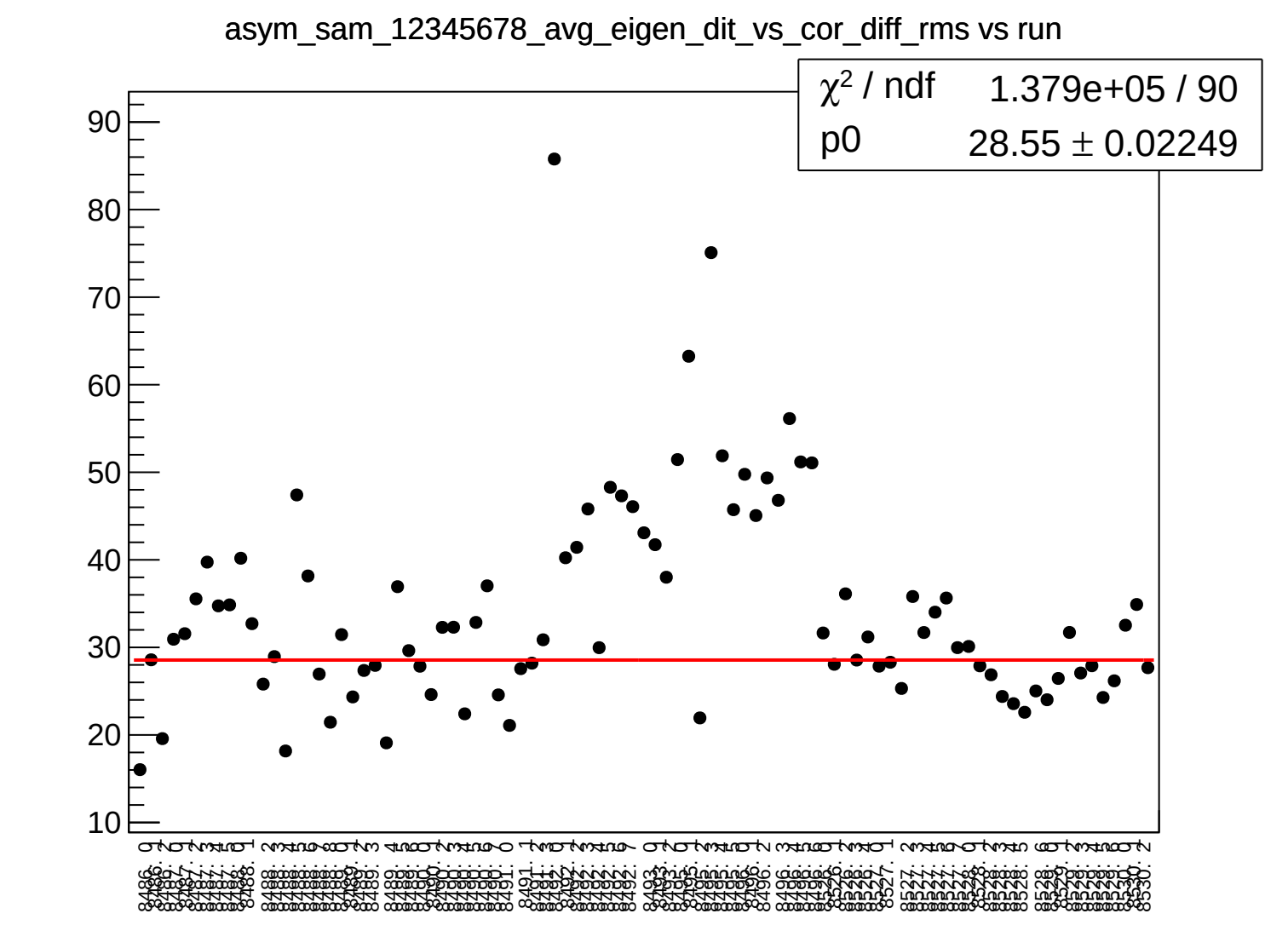

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.379e+05 / 90
p0 28.55 ± 0.02249
90
80
70
60
50
40
30
20
10

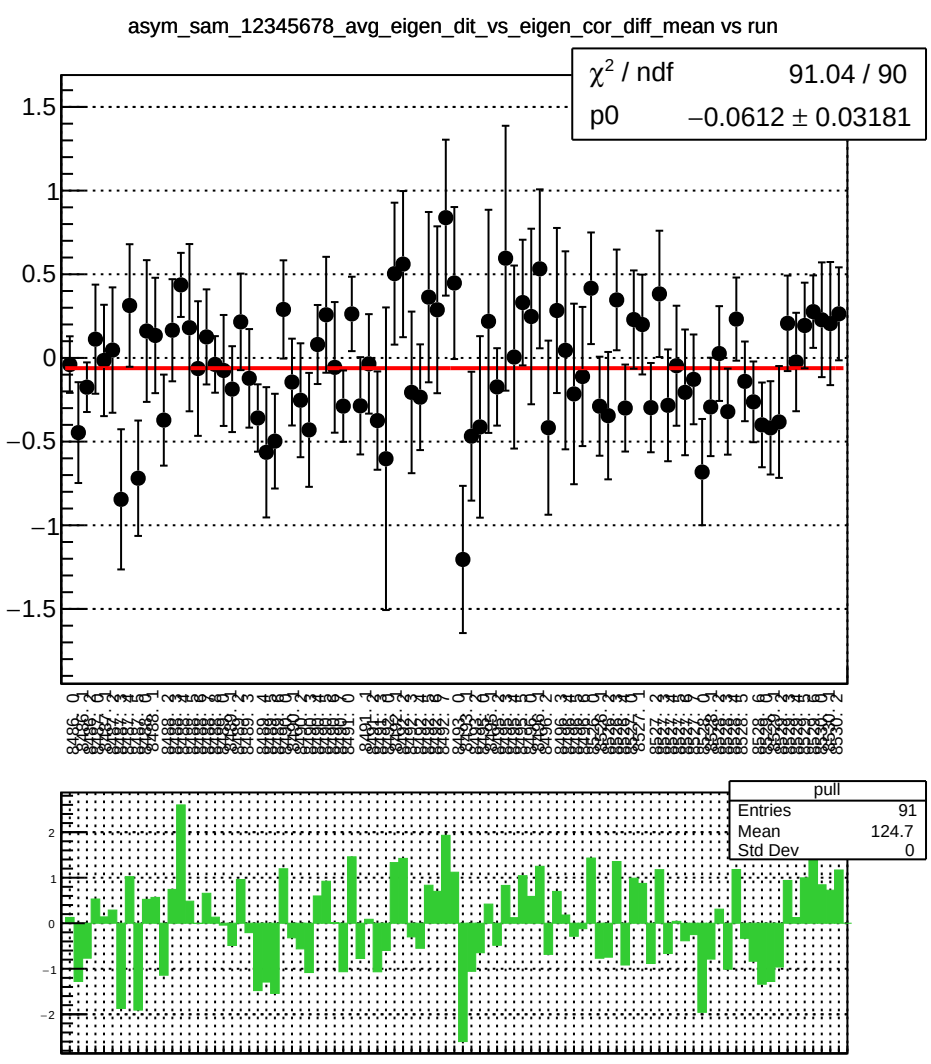

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 69.99 / 90
p0 3.621e−06 ± 1.109e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 91
Mean 99.34
Std Dev 11.49
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 91
Mean −0.02908
Std Dev 0.8765
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

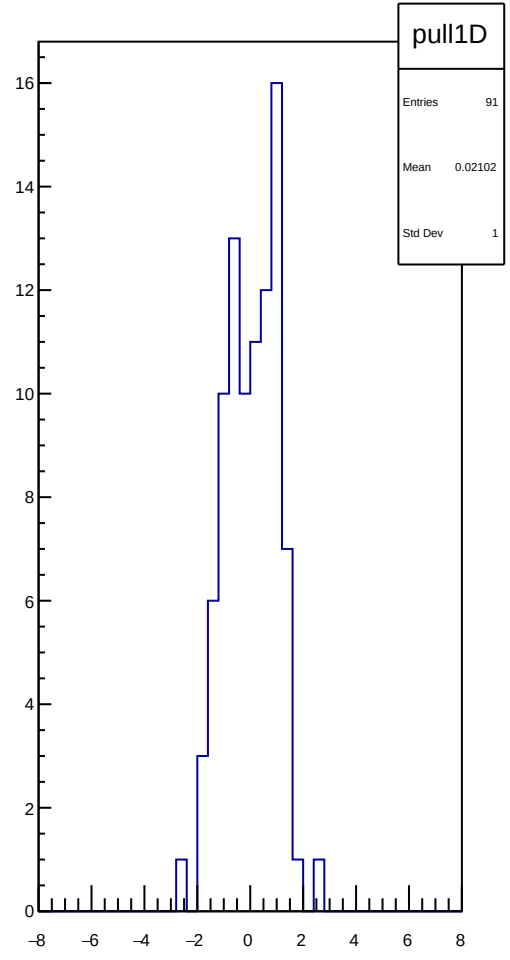

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.347e+05 / 90
p0 0.0009963 ± 7.84e−07
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008

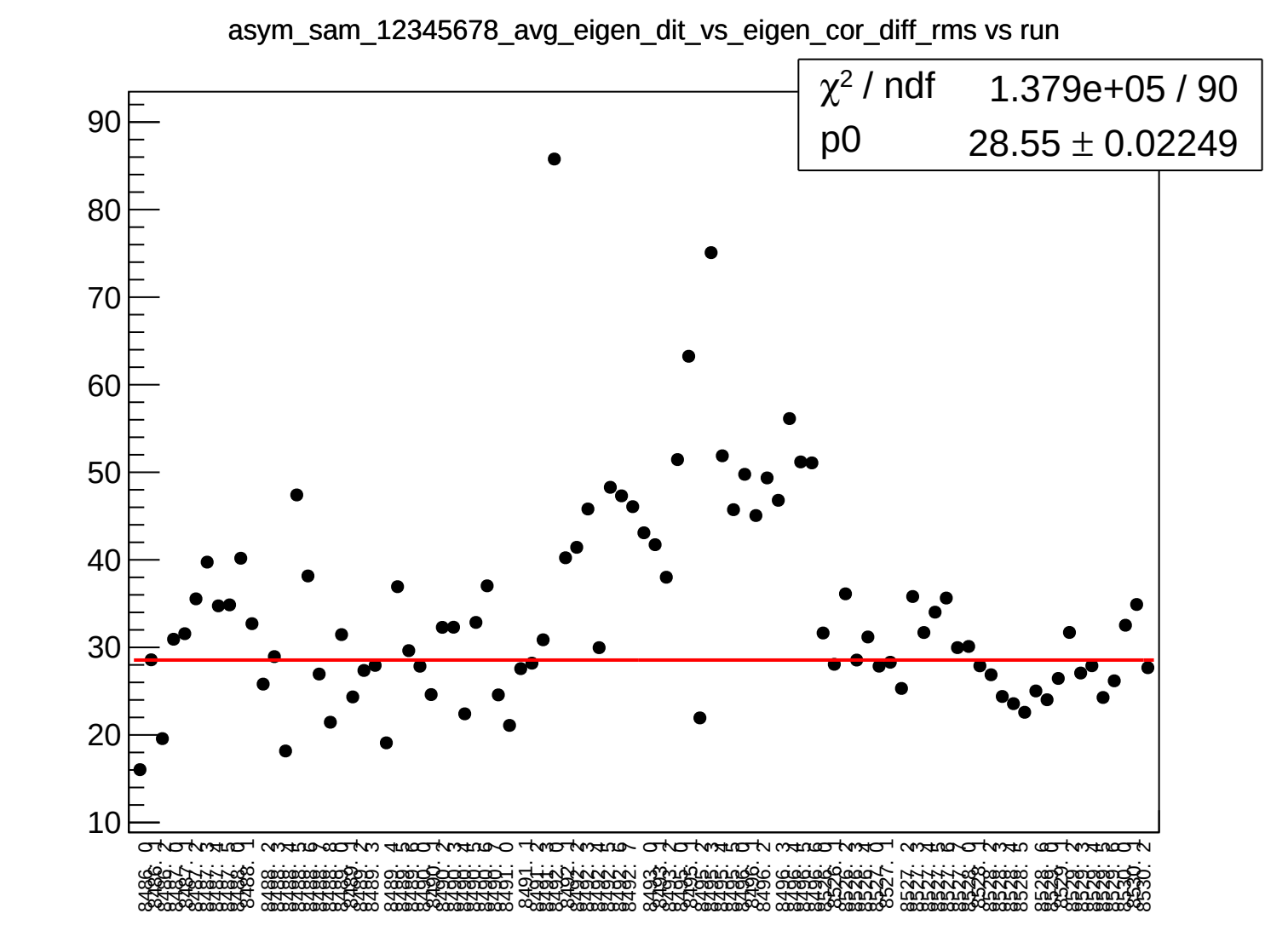

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.04 / 90
p0 −0.0612 ± 0.03181
pull
Entries 91
Mean 124.7
Std Dev 0

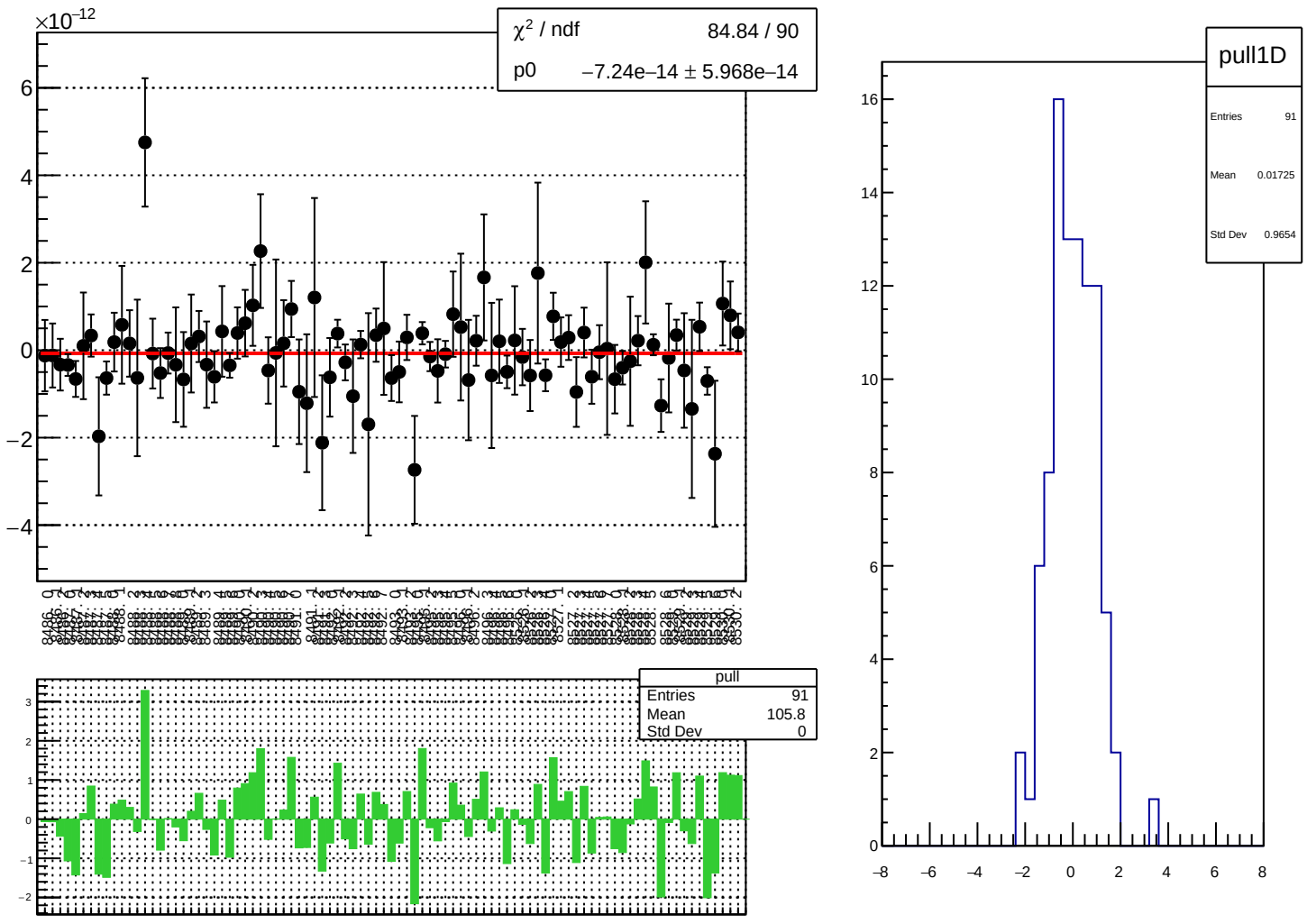

pull1D
Entries 91
Mean 0.02102
Std Dev 1

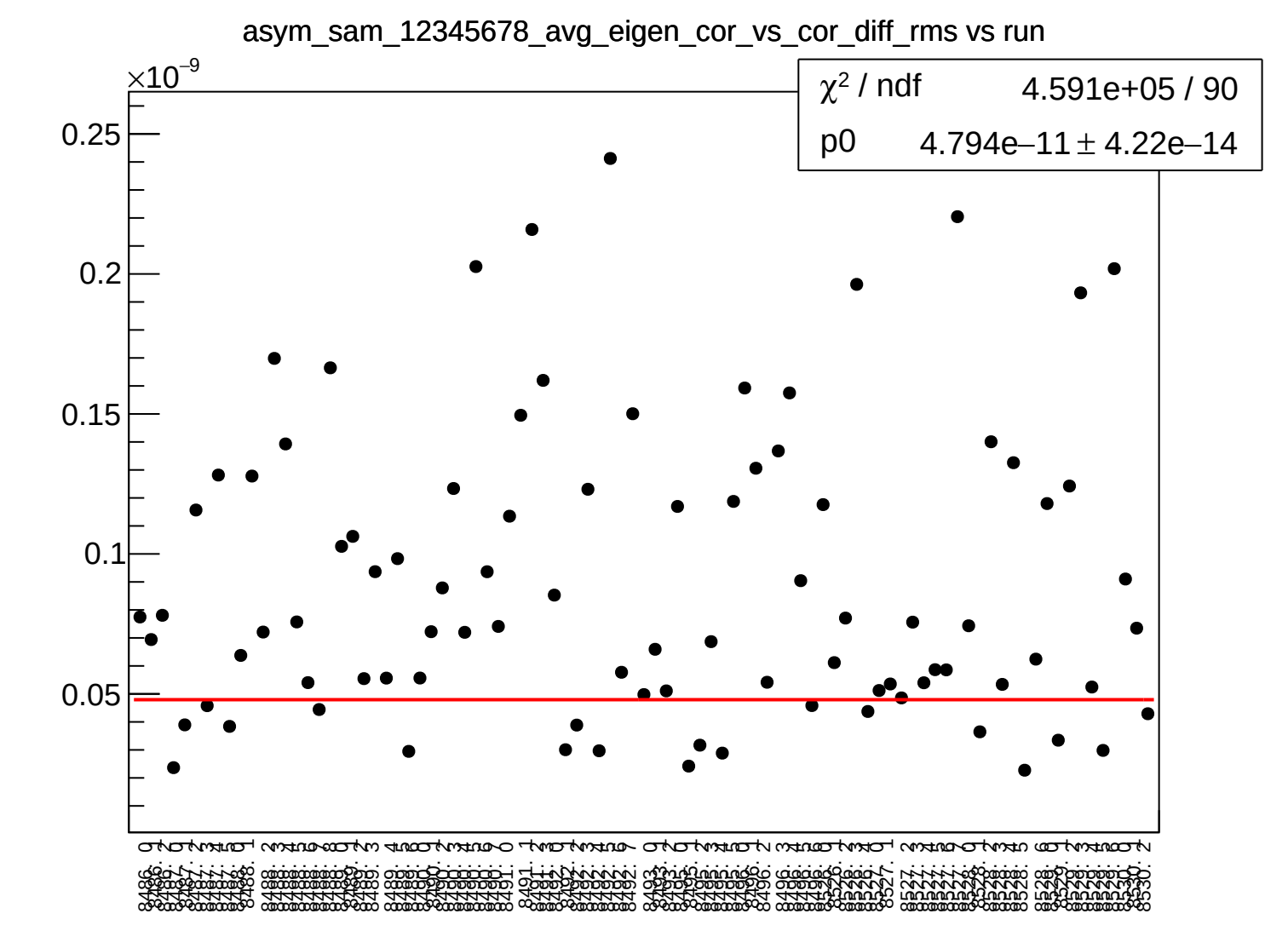

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.379e+05 / 90
p0 28.55 ± 0.02249
90
80
70
60
50
40
30
20
10

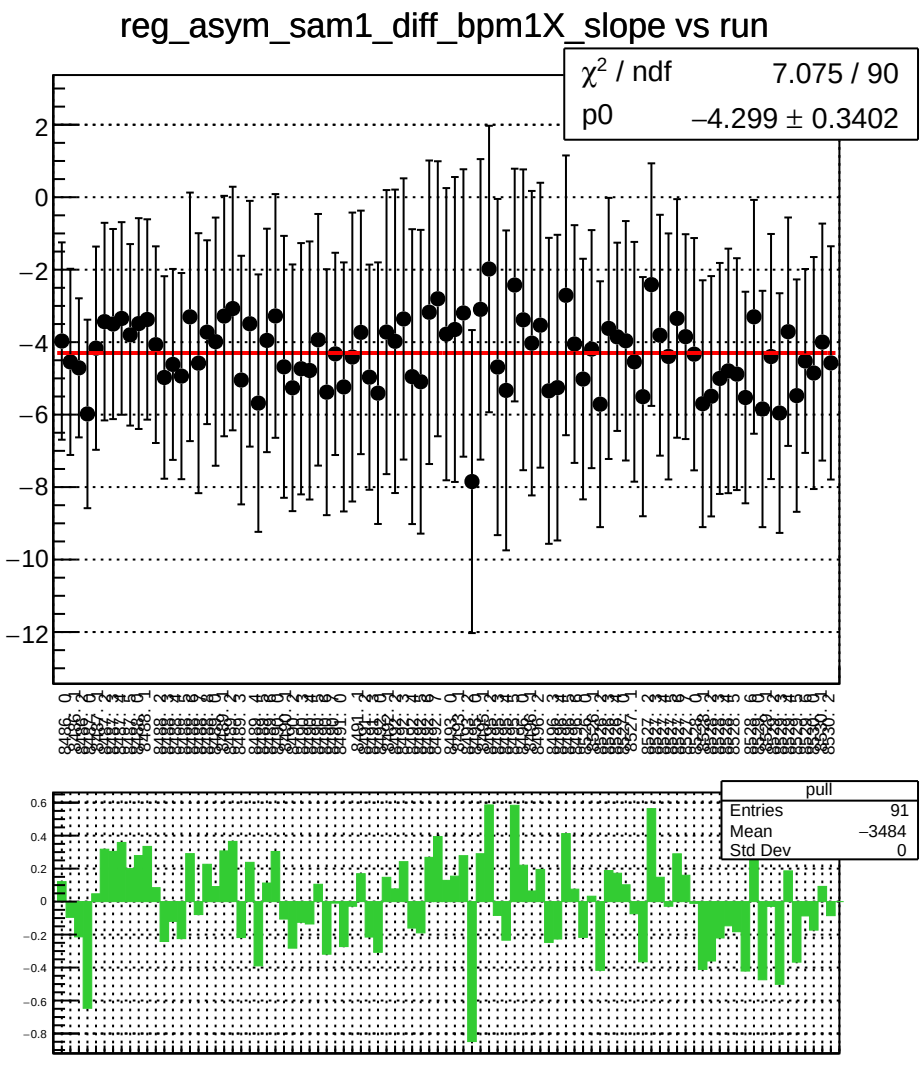

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.04 / 90
p0 −0.0612 ± 0.03181
pull
Entries 91
Mean 124.7
Std Dev 0

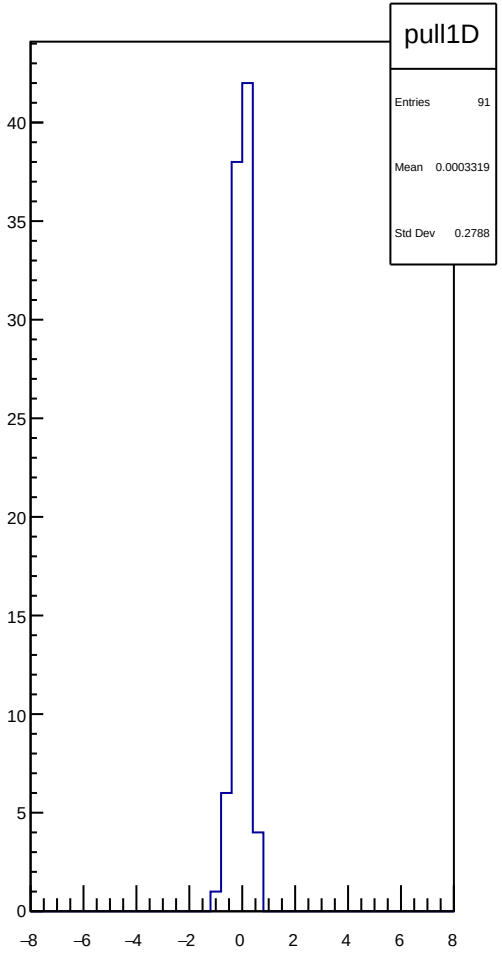

pull1D
Entries 91
Mean 0.02102
Std Dev 1

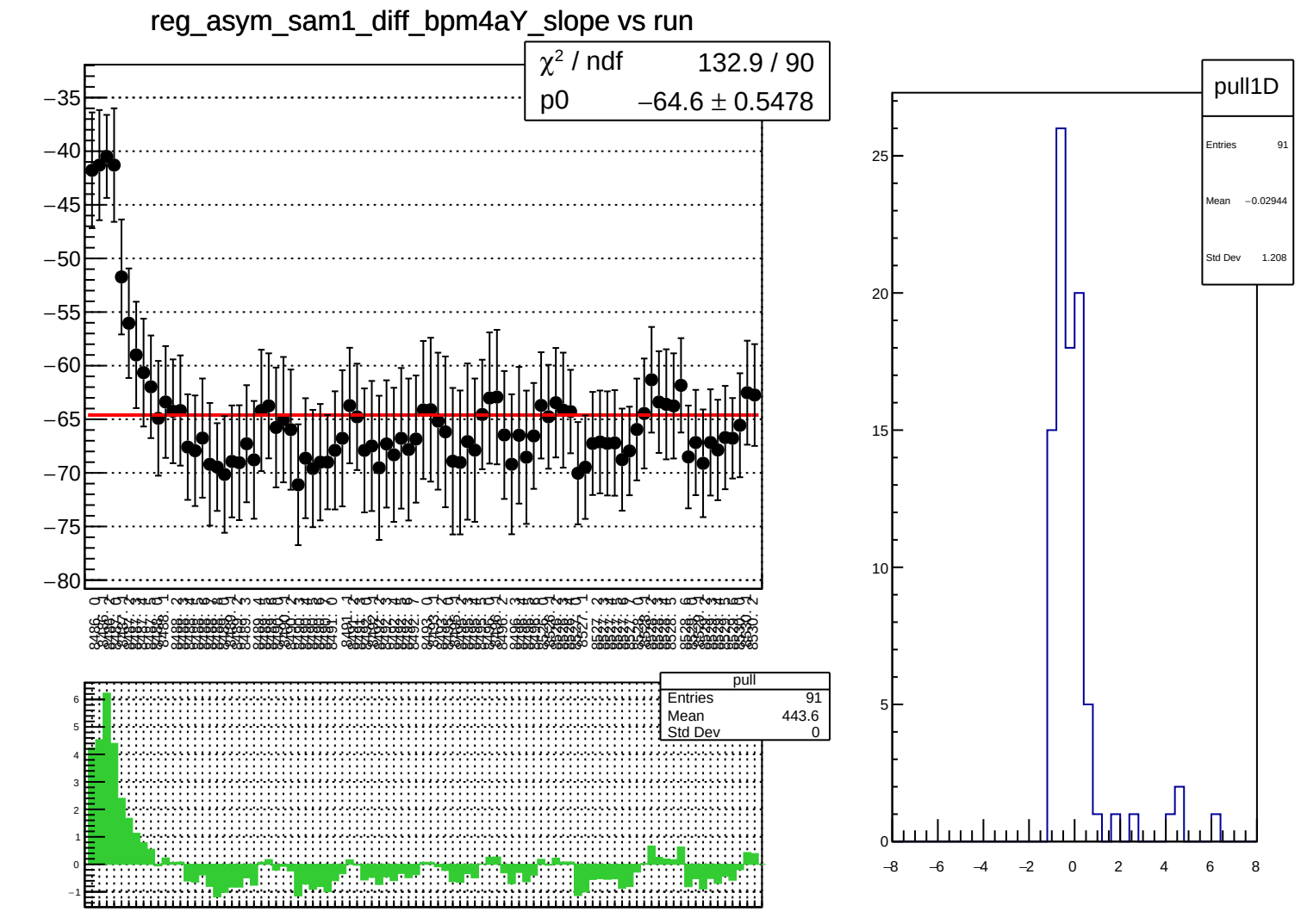

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.379e+05 / 90
p0 28.55 ± 0.02249
90
80
70
60
50
40
30
20
10

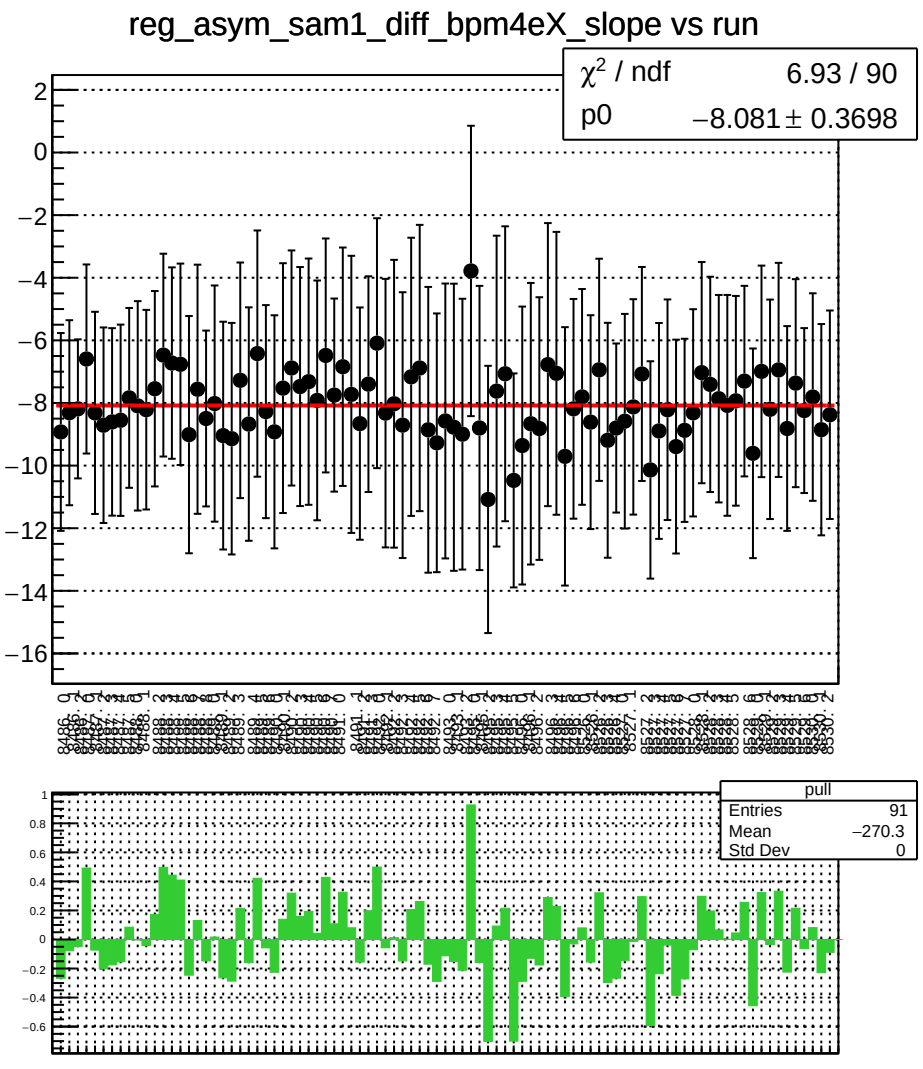

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.84 / 90
p0 −7.24e−14 ± 5.968e−14
pull
Entries 91
Mean 105.8
Std Dev 0
pull1D
Entries 91
Mean 0.01725
Std Dev 0.9654

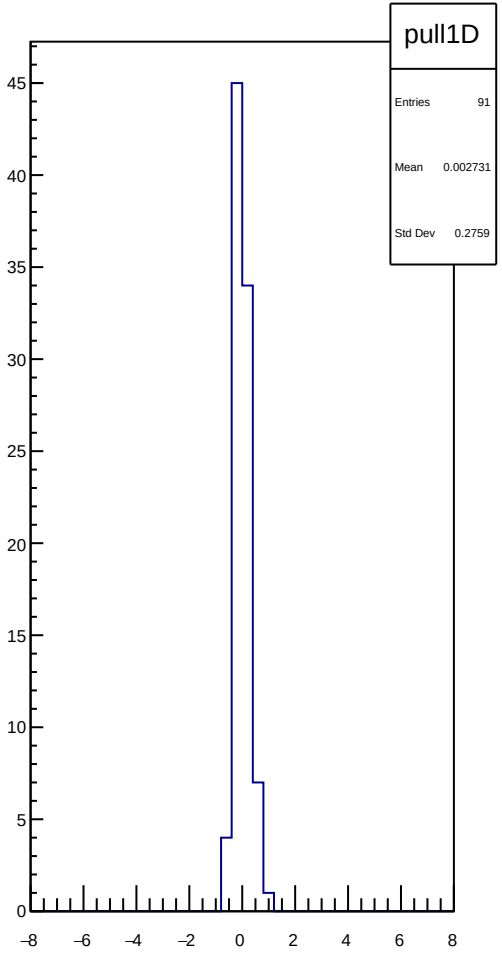

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.591e+05 / 90
p0 4.794e−11 ± 4.22e−14
0.25
0.2
0.15
0.1
0.05

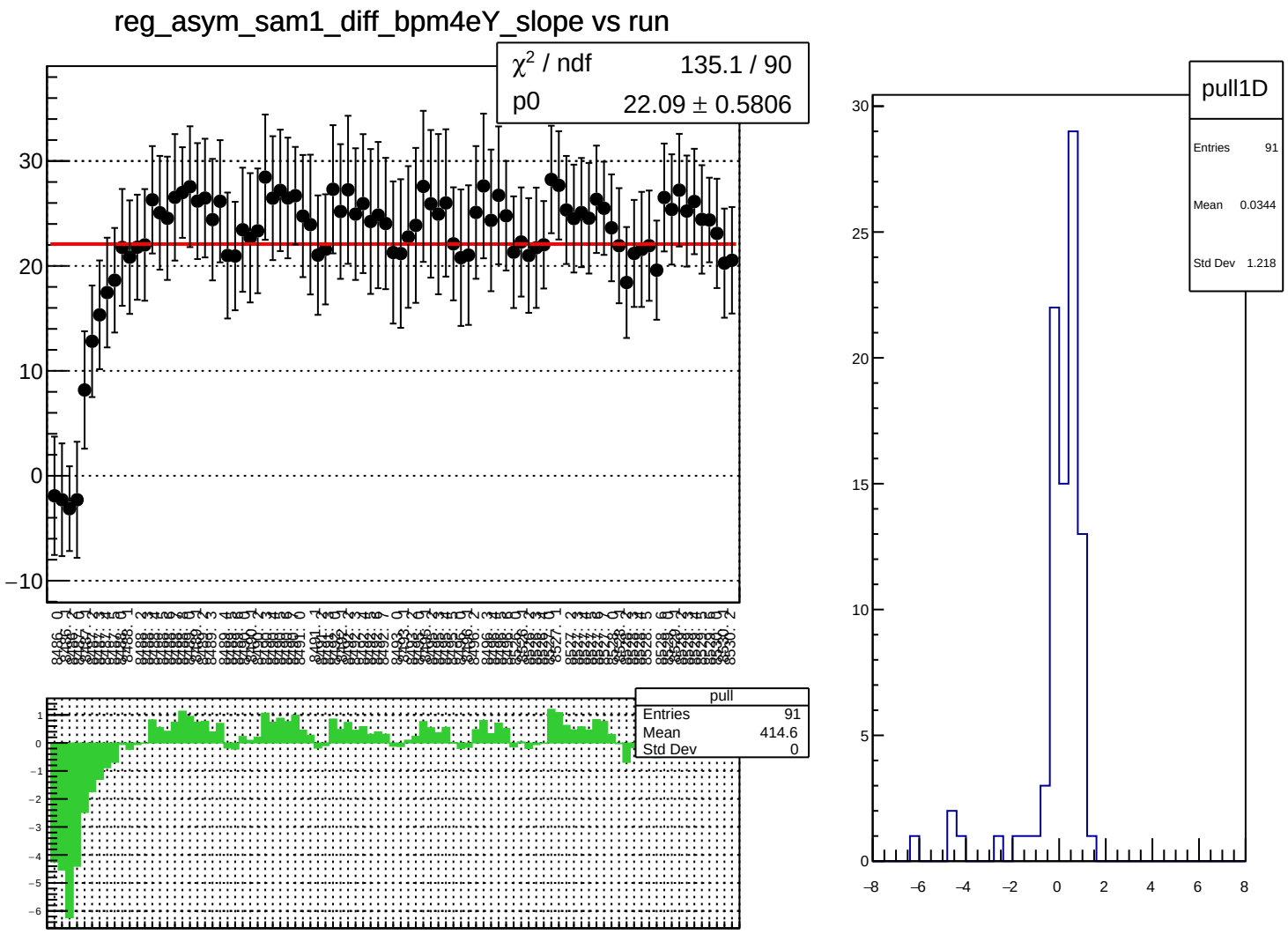

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 7.075 / 90
p0 −4.299 ± 0.3402
pull
Entries 91
Mean −3484
Std Dev 0

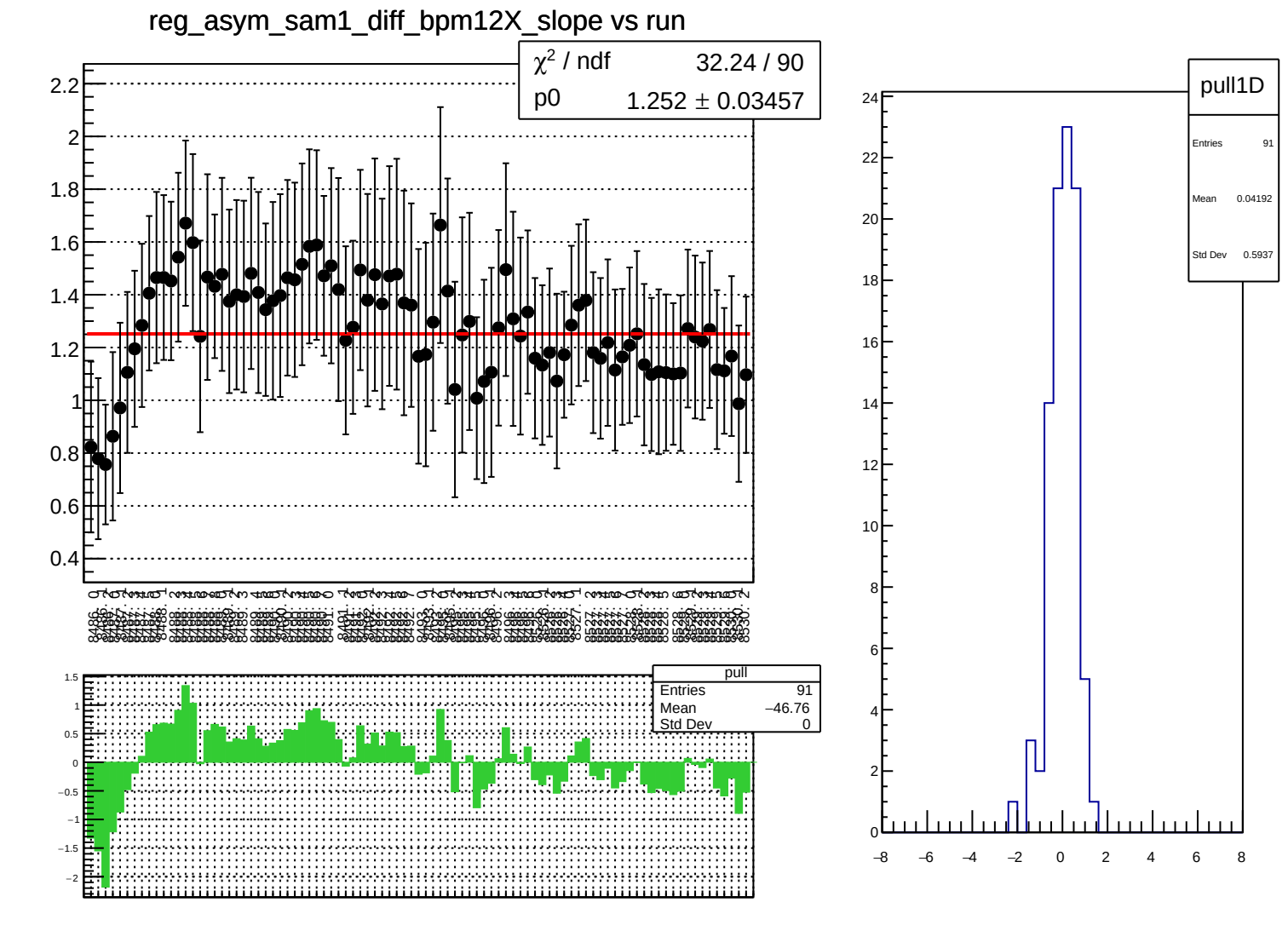

pull1D
Entries 91
Mean 0.0003319
Std Dev 0.2788

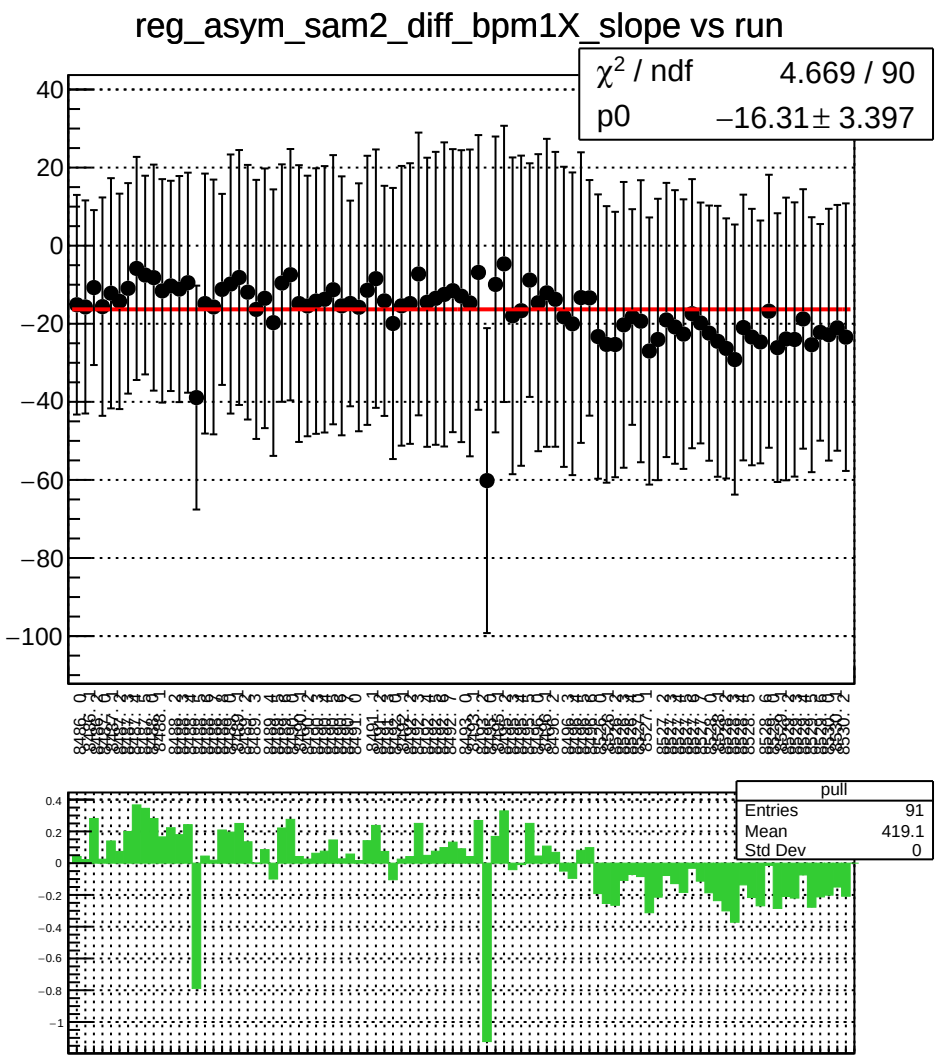

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 132.9 / 90
p0 −64.6 ± 0.5478
pull
Entries 91
Mean 443.6
Std Dev 0
pull1D
Entries 91
Mean −0.02944
Std Dev 1.208

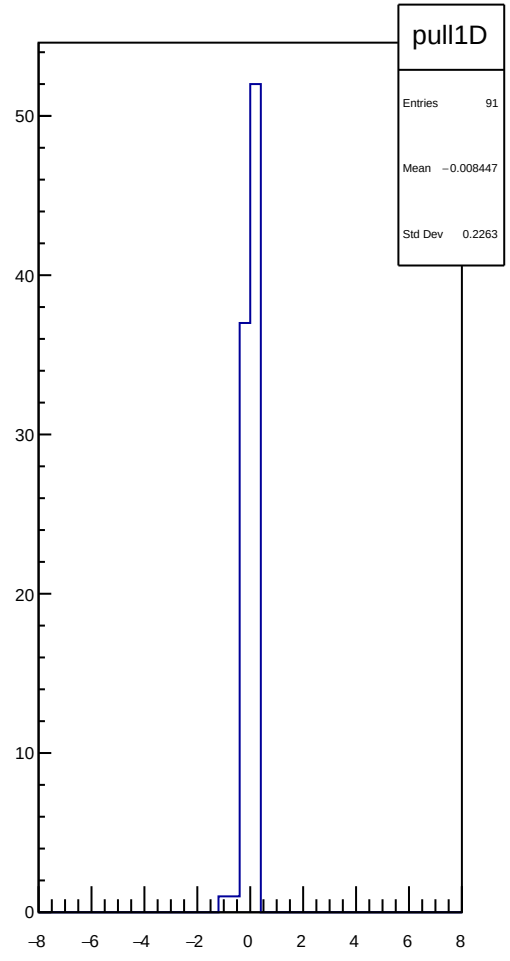

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 6.93 / 90
p0 −8.081 ± 0.3698
pull
Entries 91
Mean −270.3
Std Dev 0

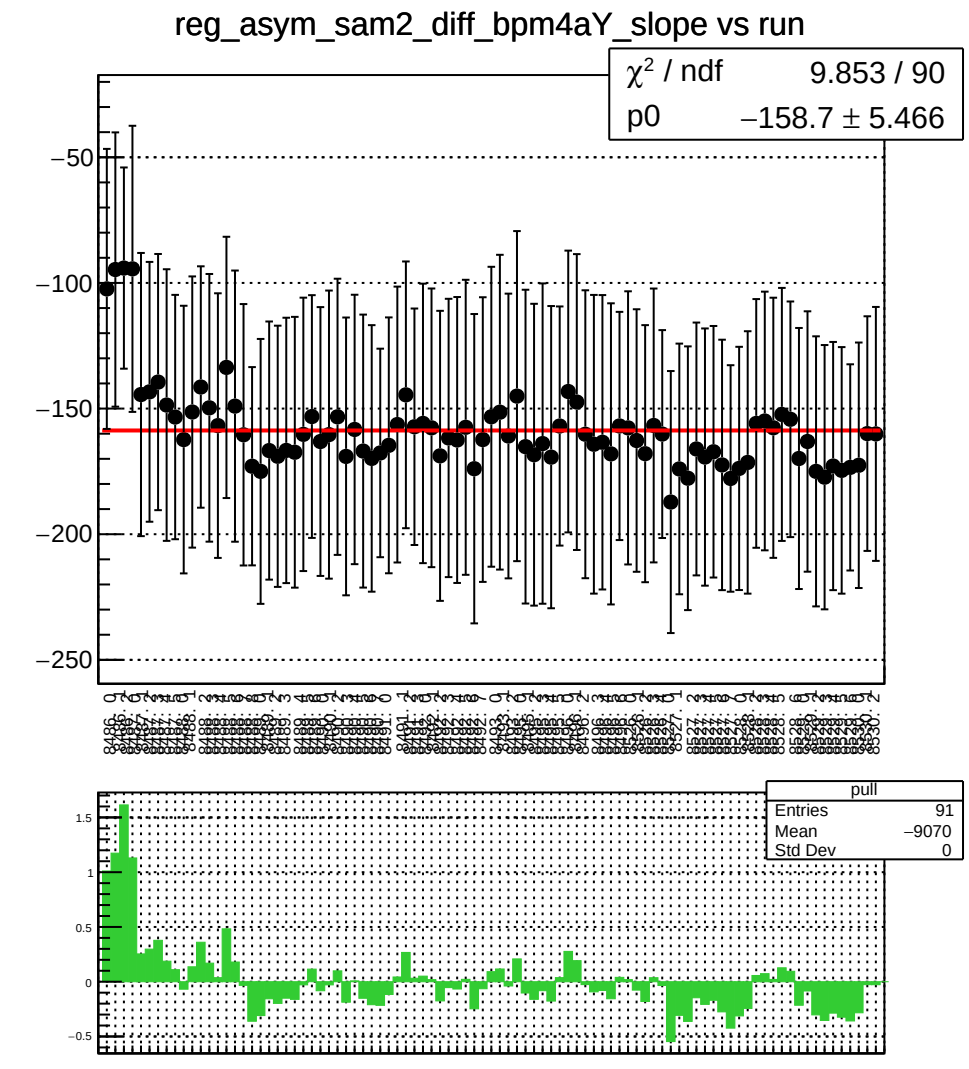

pull1D
Entries 91
Mean 0.002731
Std Dev 0.2759

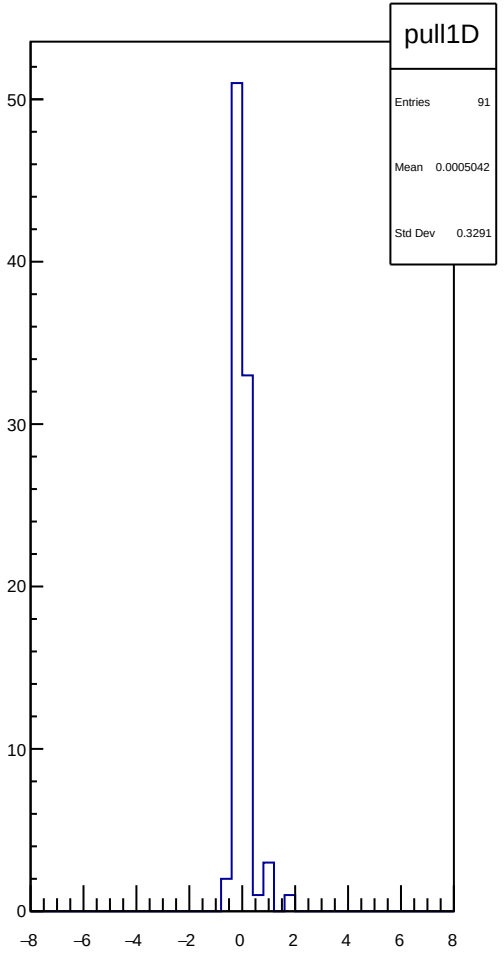

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 135.1 / 90
p0 22.09 ± 0.5806
pull
Entries 91
Mean 414.6
Std Dev 0
pull1D
Entries 91
Mean 0.0344
Std Dev 1.218

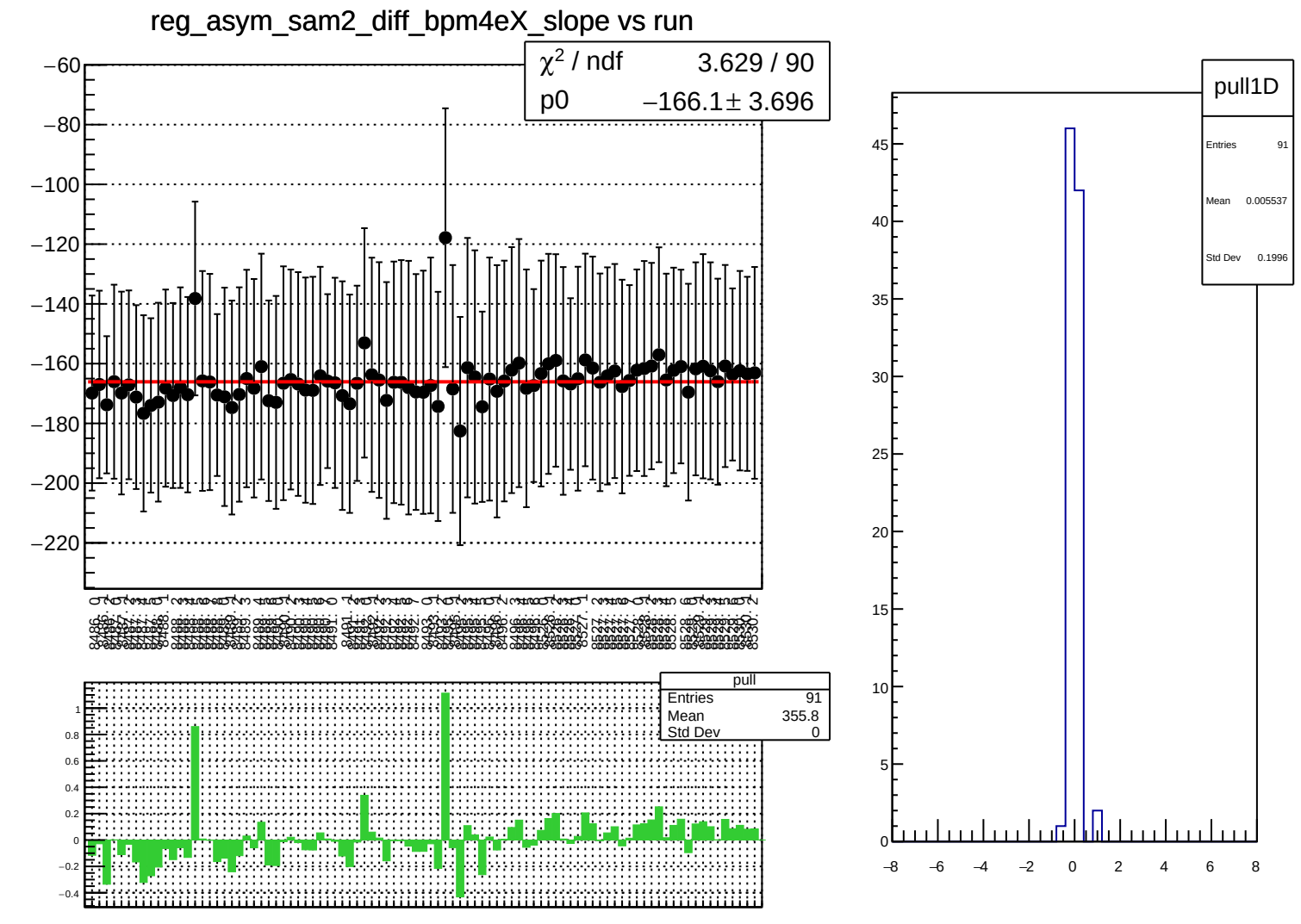

reg_asym_sam1_diff_bpm12X_slope vs run
χ^2 / ndf 32.24 / 90
p0 1.252 ± 0.03457
pull
Entries 91
Mean −46.76
Std Dev 0
pull1D
Entries 91
Mean 0.04192
Std Dev 0.5937

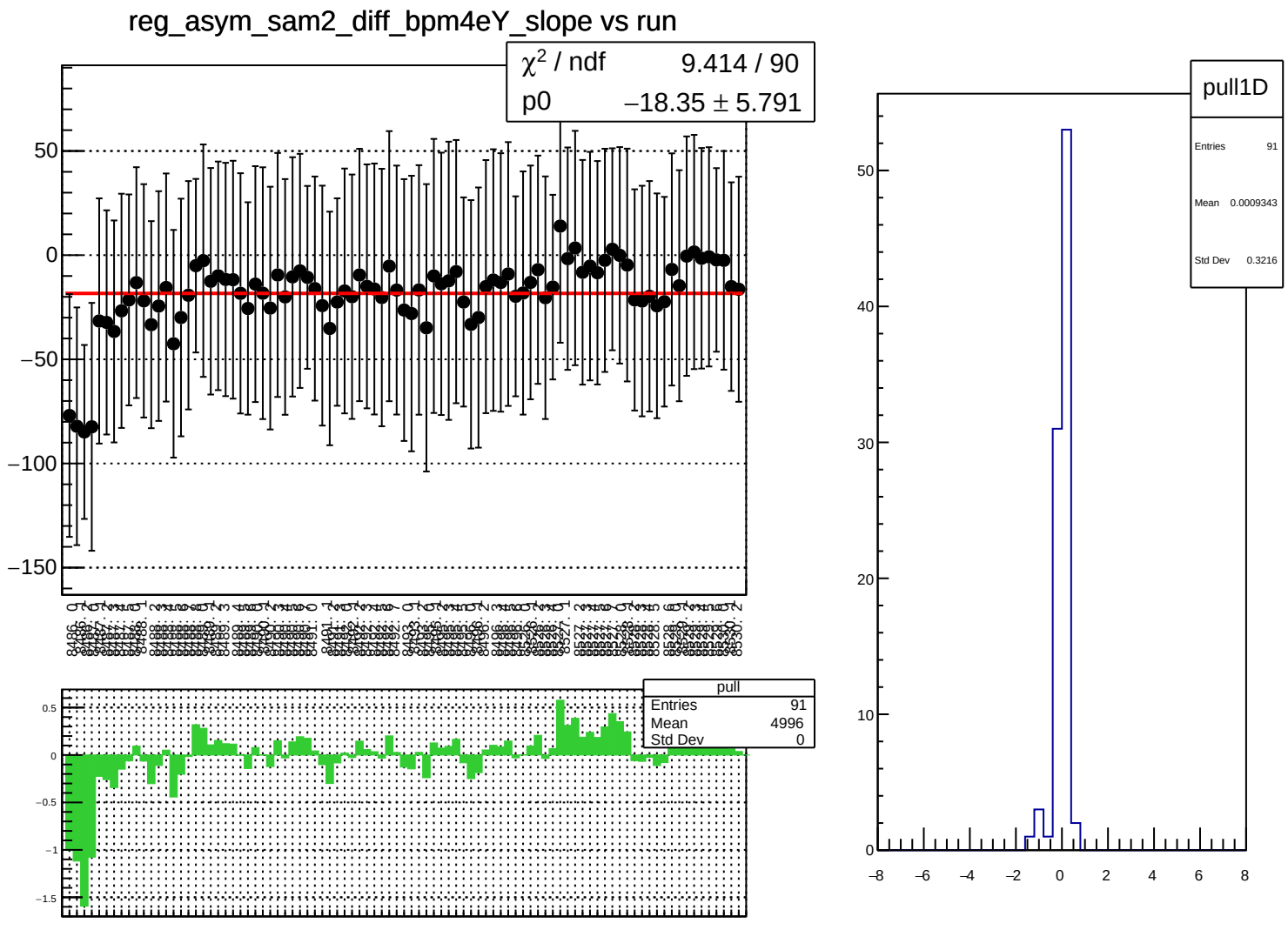

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 4.669 / 90
p0 −16.31 ± 3.397
pull
Entries 91
Mean 419.1
Std Dev 0

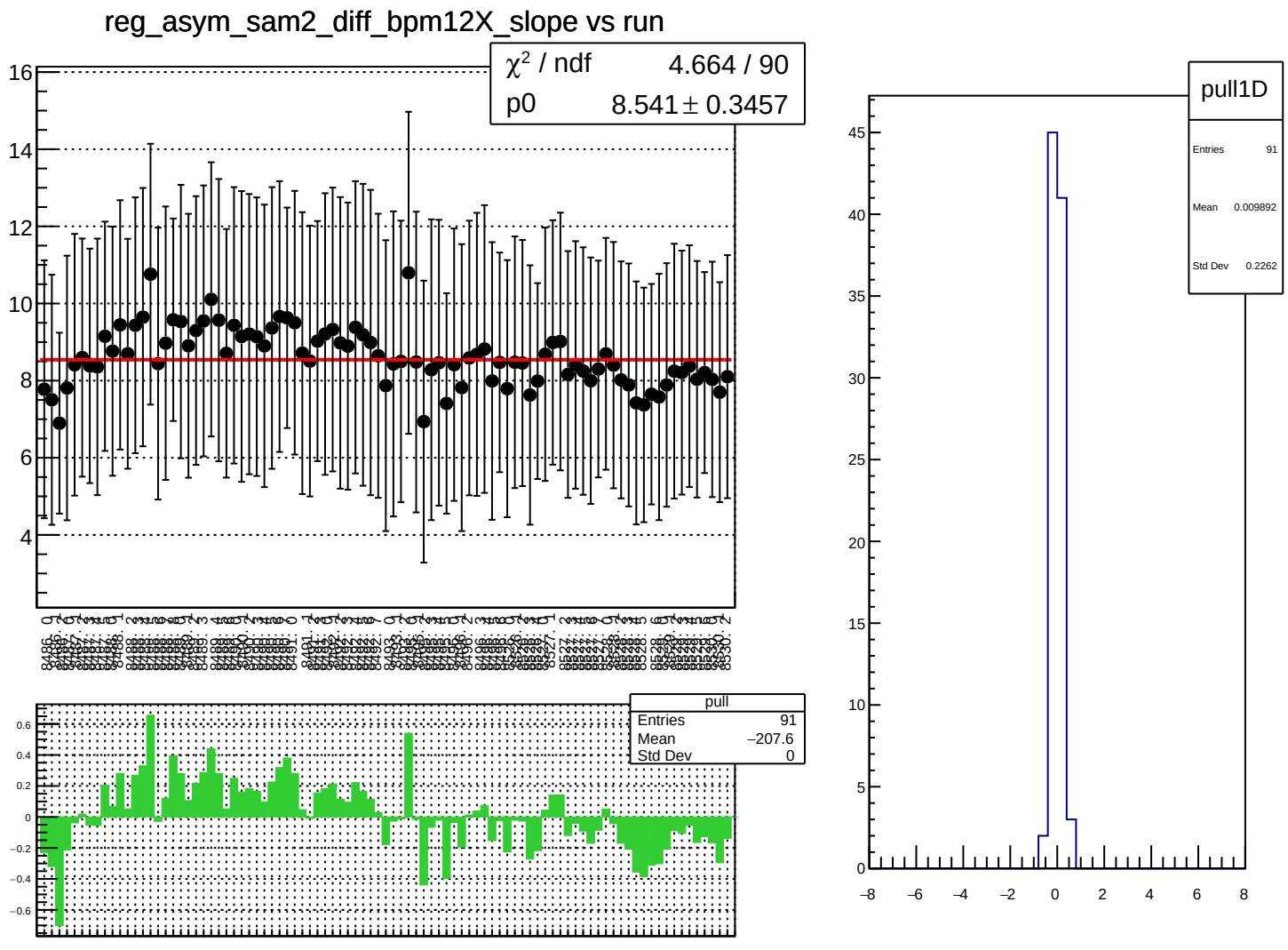

pull1D
Entries 91
Mean −0.008447
Std Dev 0.2263

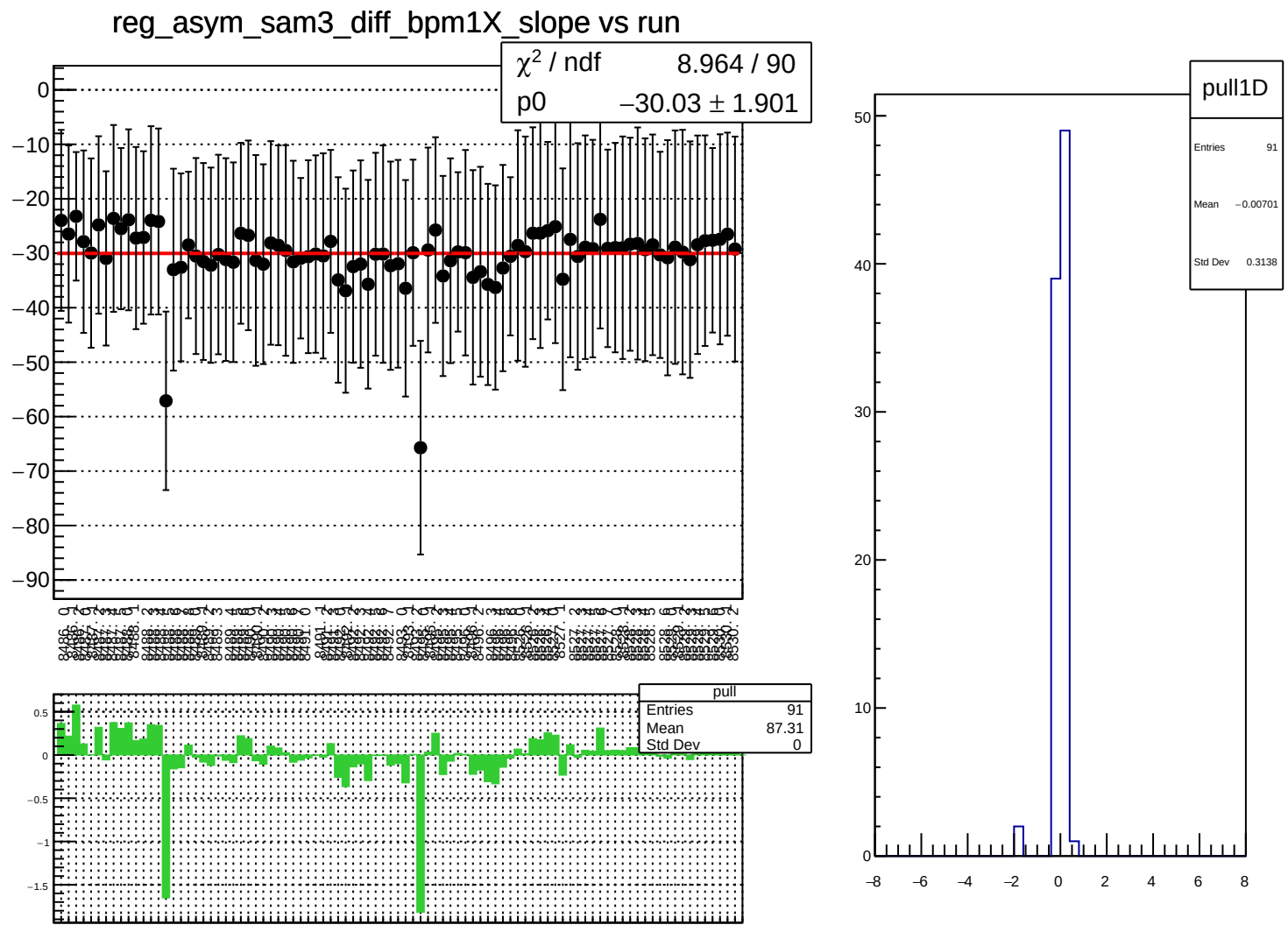

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 9.853 / 90
p0 −158.7 ± 5.466
−50
−100
−150
−200
−250
pull
Entries 91
Mean −9070
Std Dev 0
1.5
1
0.5
0
−0.5

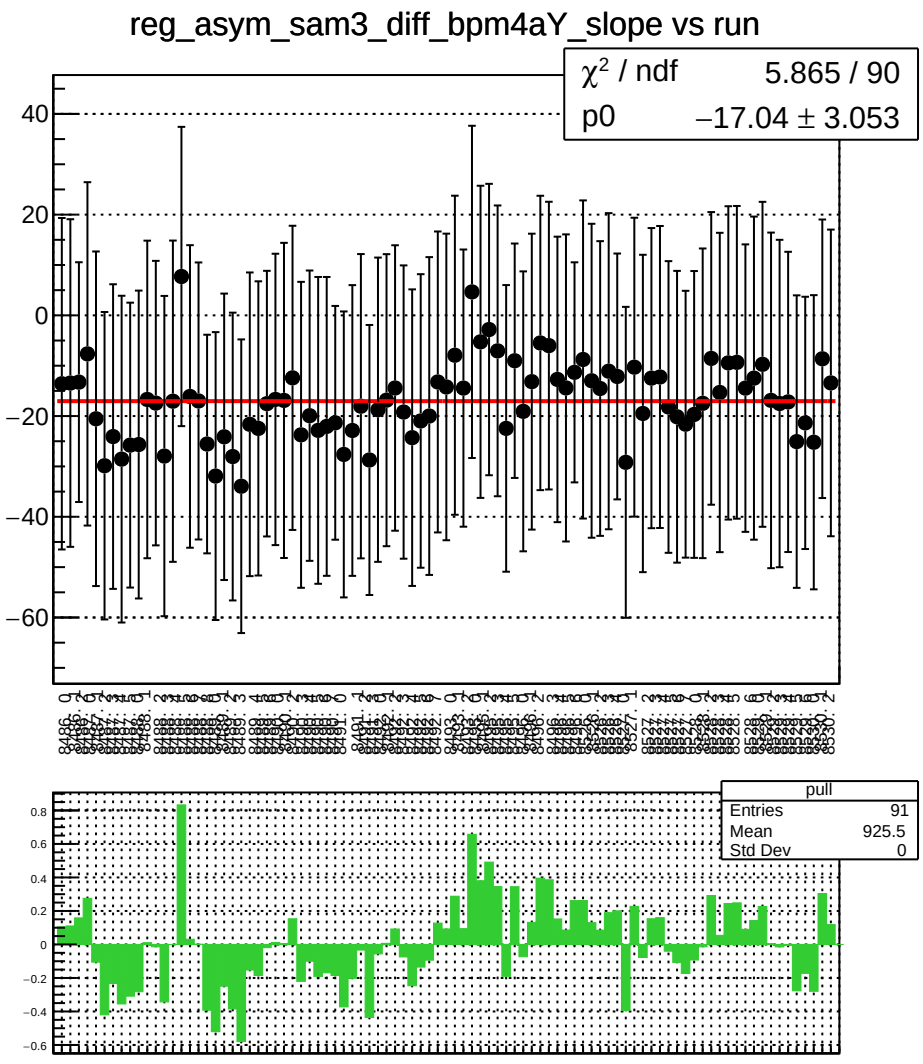

pull1D
Entries 91
Mean 0.0005042
Std Dev 0.3291
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

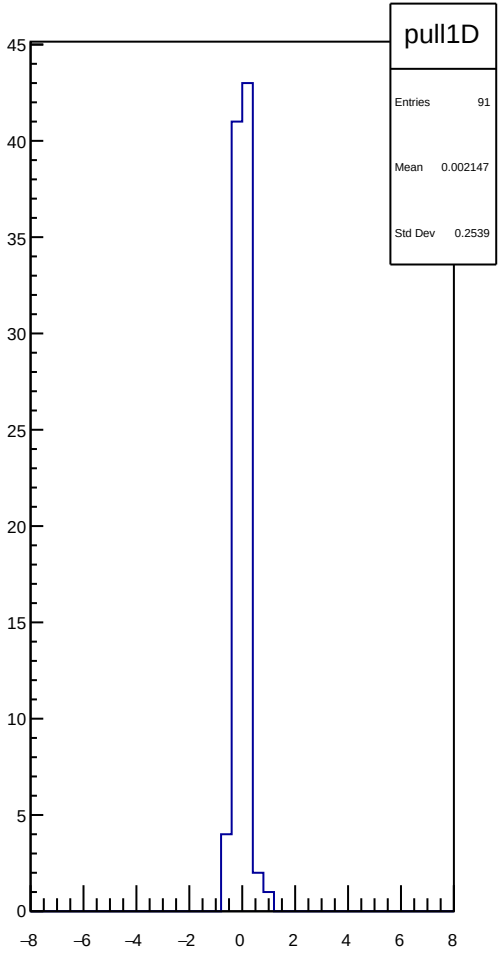

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 3.629 / 90
p0 −166.1± 3.696
pull
Entries 91
Mean 355.8
Std Dev 0
pull1D
Entries 91
Mean 0.005537
Std Dev 0.1996

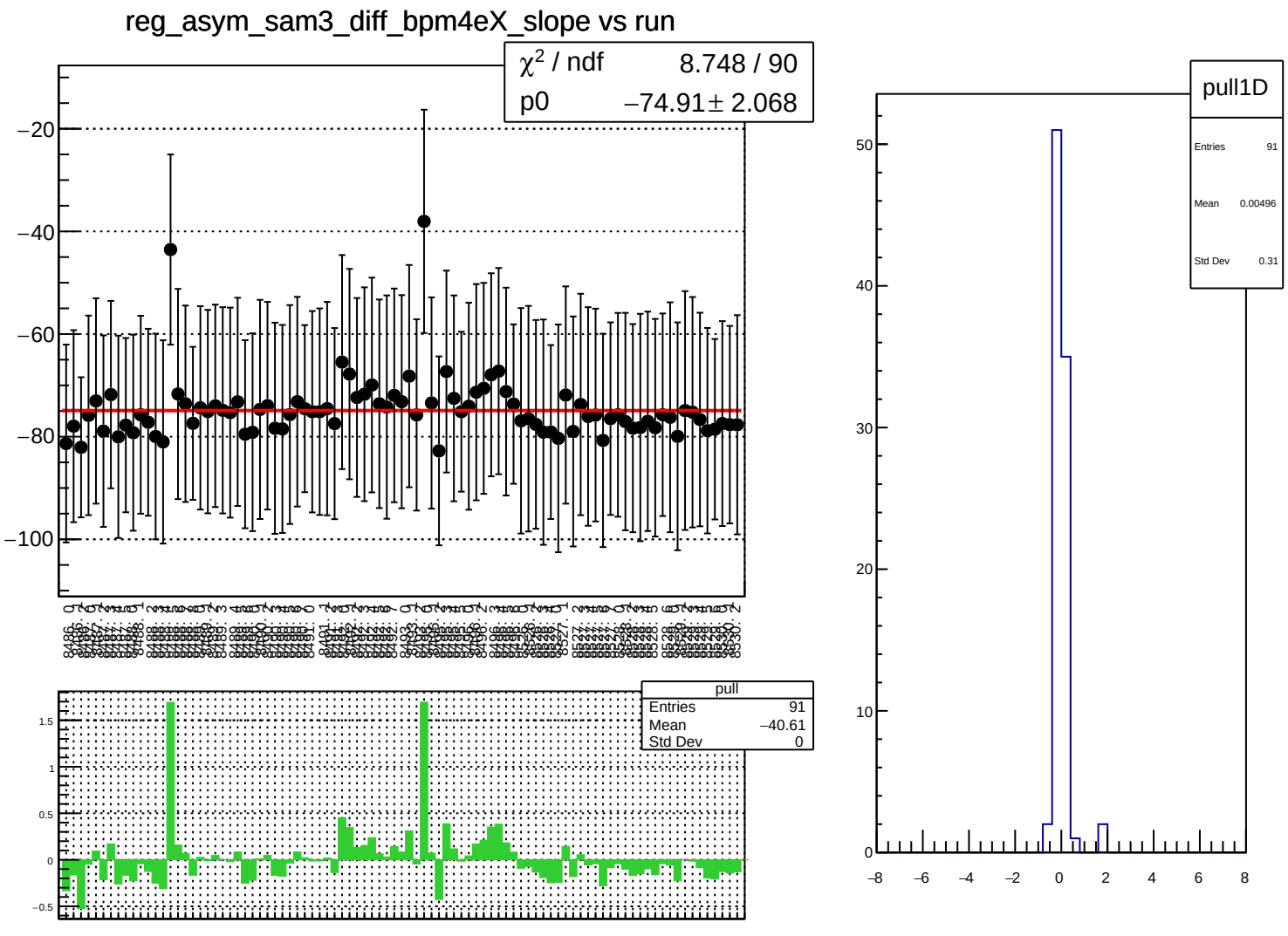

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 9.414 / 90
p0 −18.35 ± 5.791
50
0
−50
−100
−150
pull
Entries 91
Mean 4996
Std Dev 0
0.5
0
−0.5
−1
−1.5
pull1D
Entries 91
Mean 0.0009343
Std Dev 0.3216
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

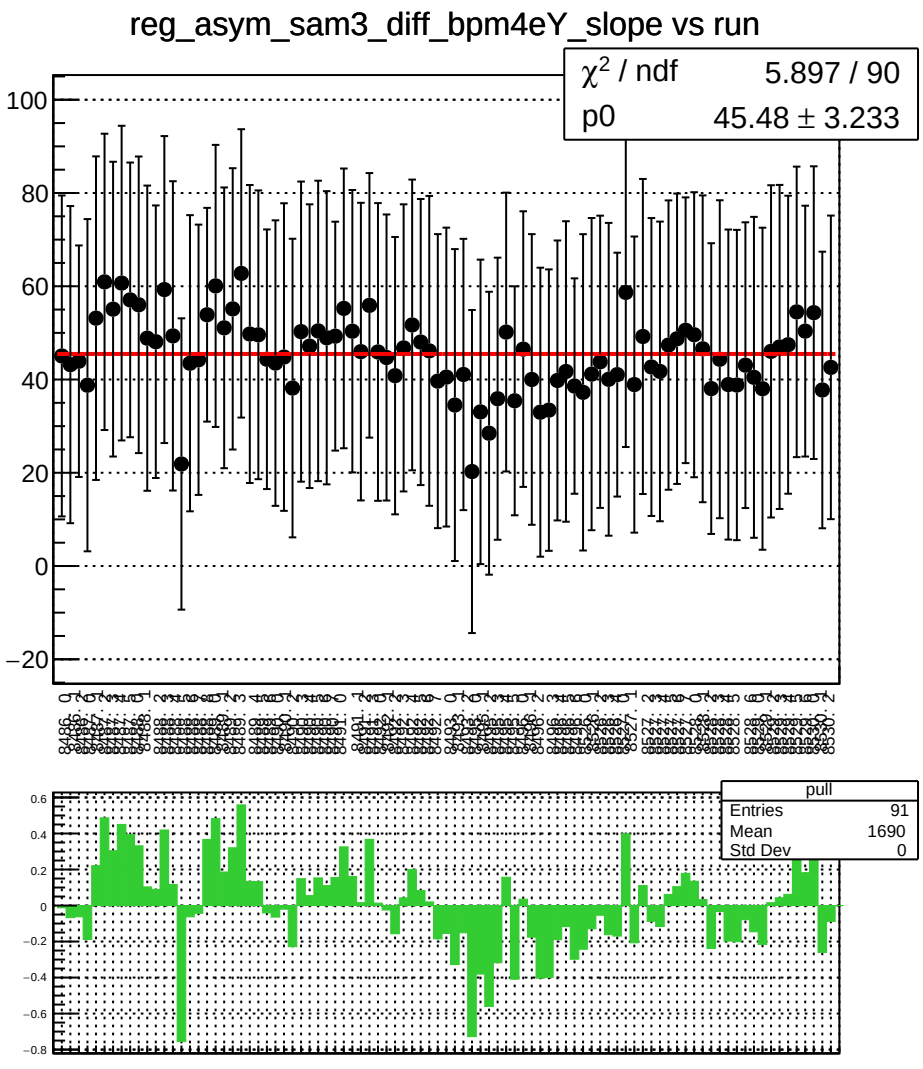

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 4.664 / 90
p0 8.541 ± 0.3457
pull
Entries 91
Mean −207.6
Std Dev 0
pull1D
Entries 91
Mean 0.009892
Std Dev 0.2262

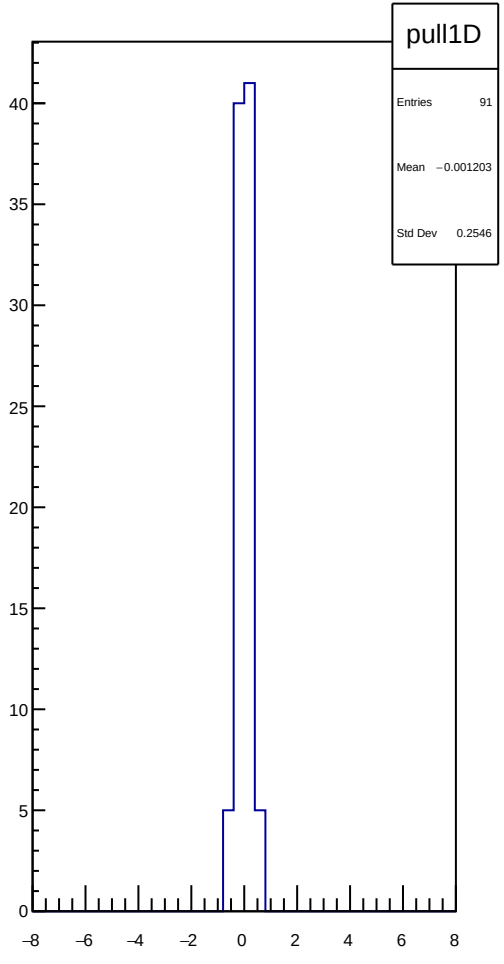

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 8.964 / 90
p0 −30.03 ± 1.901
pull
Entries 91
Mean 87.31
Std Dev 0
pull1D
Entries 91
Mean −0.00701
Std Dev 0.3138

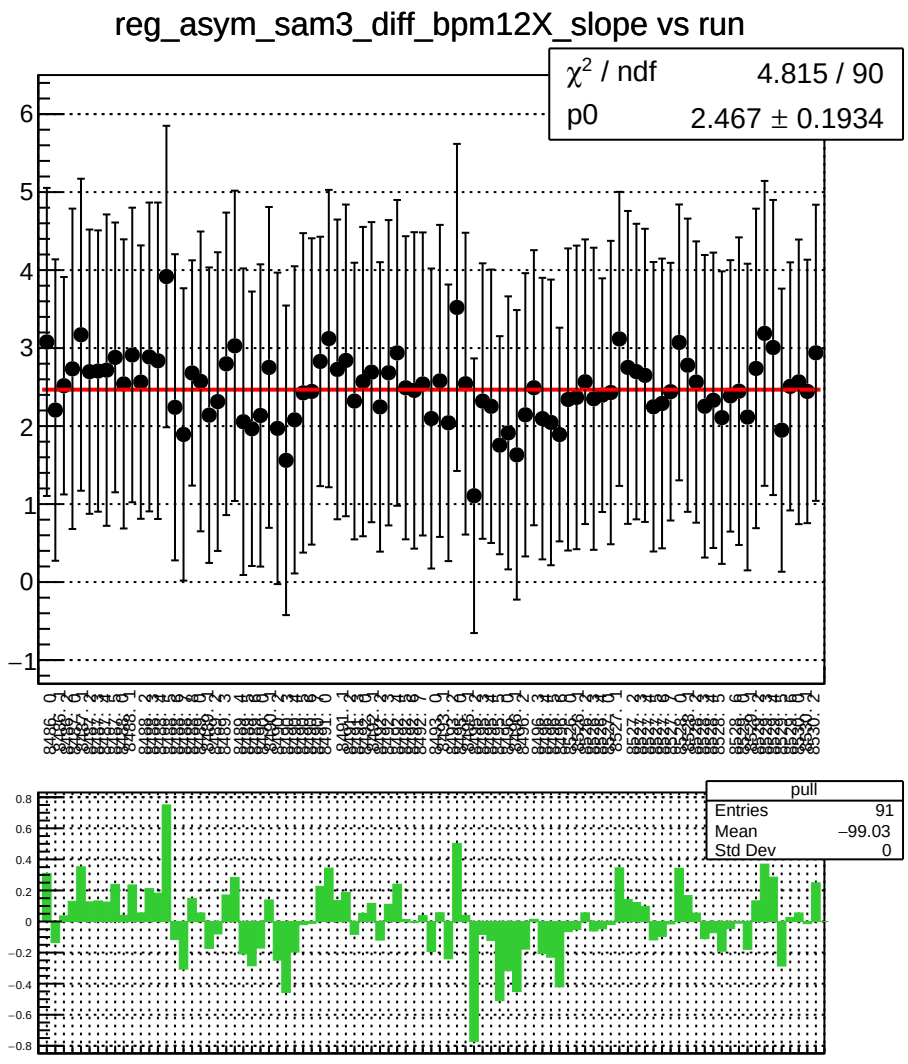

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 5.865 / 90
p0 −17.04 ± 3.053
pull
Entries 91
Mean 925.5
Std Dev 0

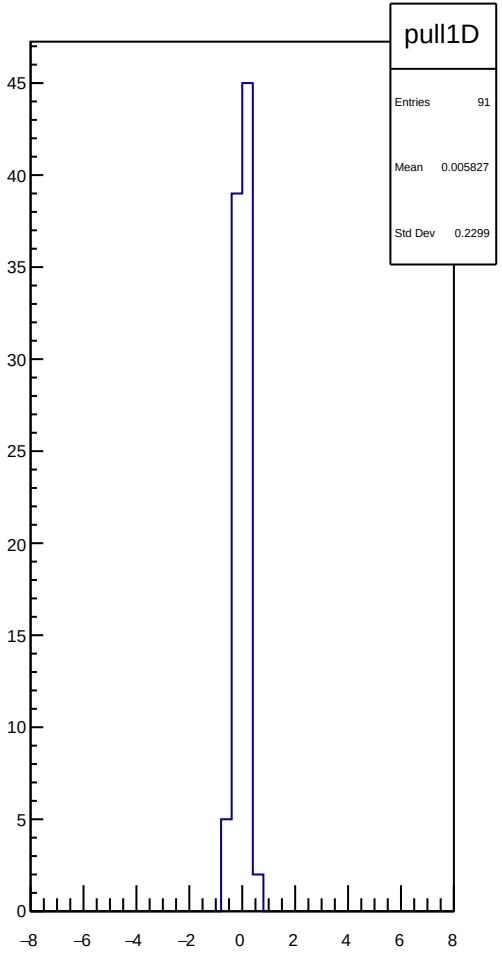

pull1D
Entries 91
Mean 0.002147
Std Dev 0.2539

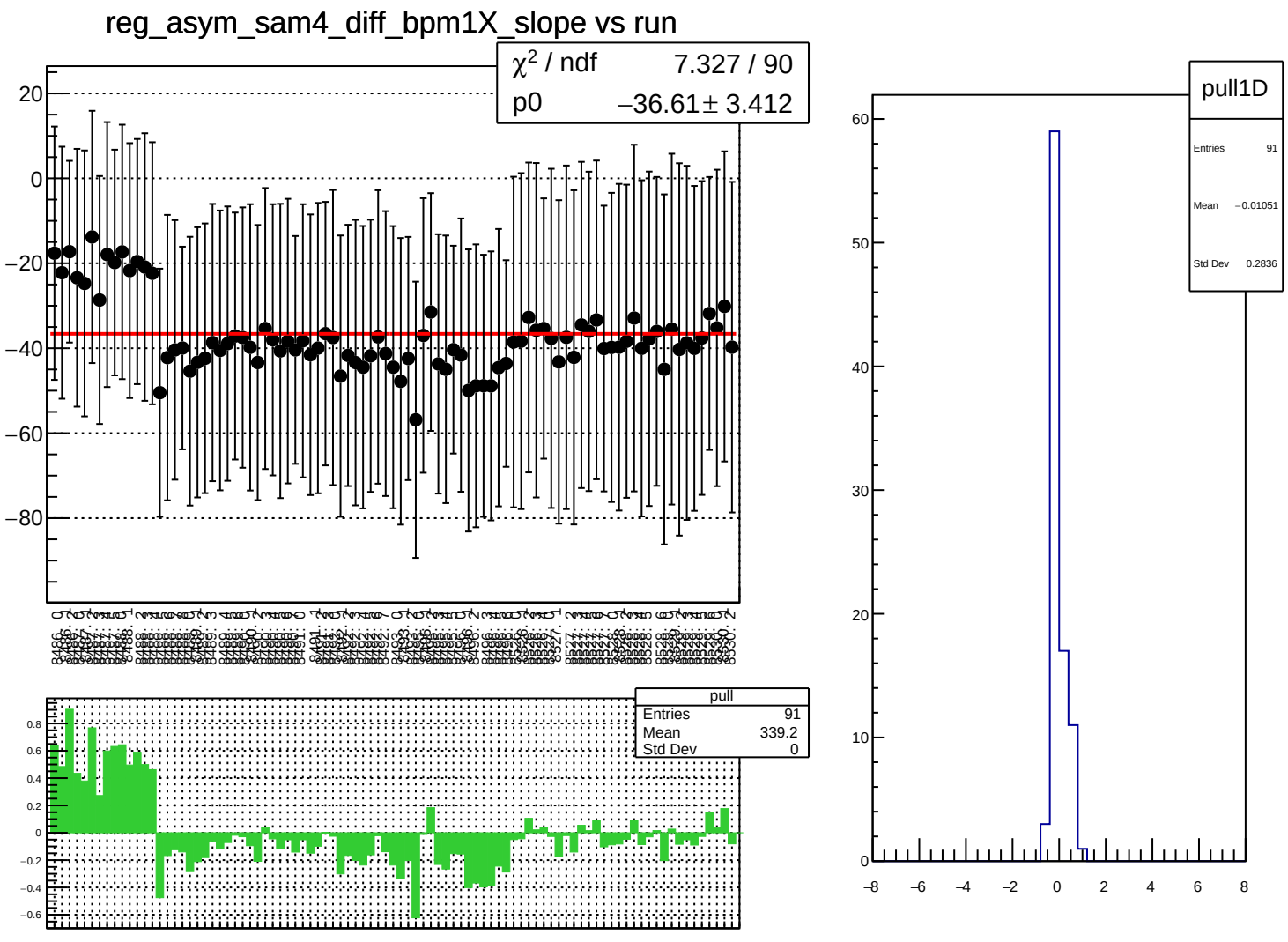

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 8.748 / 90
p0 −74.91 ± 2.068
−20
−40
−60
−80
−100
pull
Entries 91
Mean −40.61
Std Dev 0
1.5
1
0.5
0
−0.5
pull1D
Entries 91
Mean 0.00496
Std Dev 0.31
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

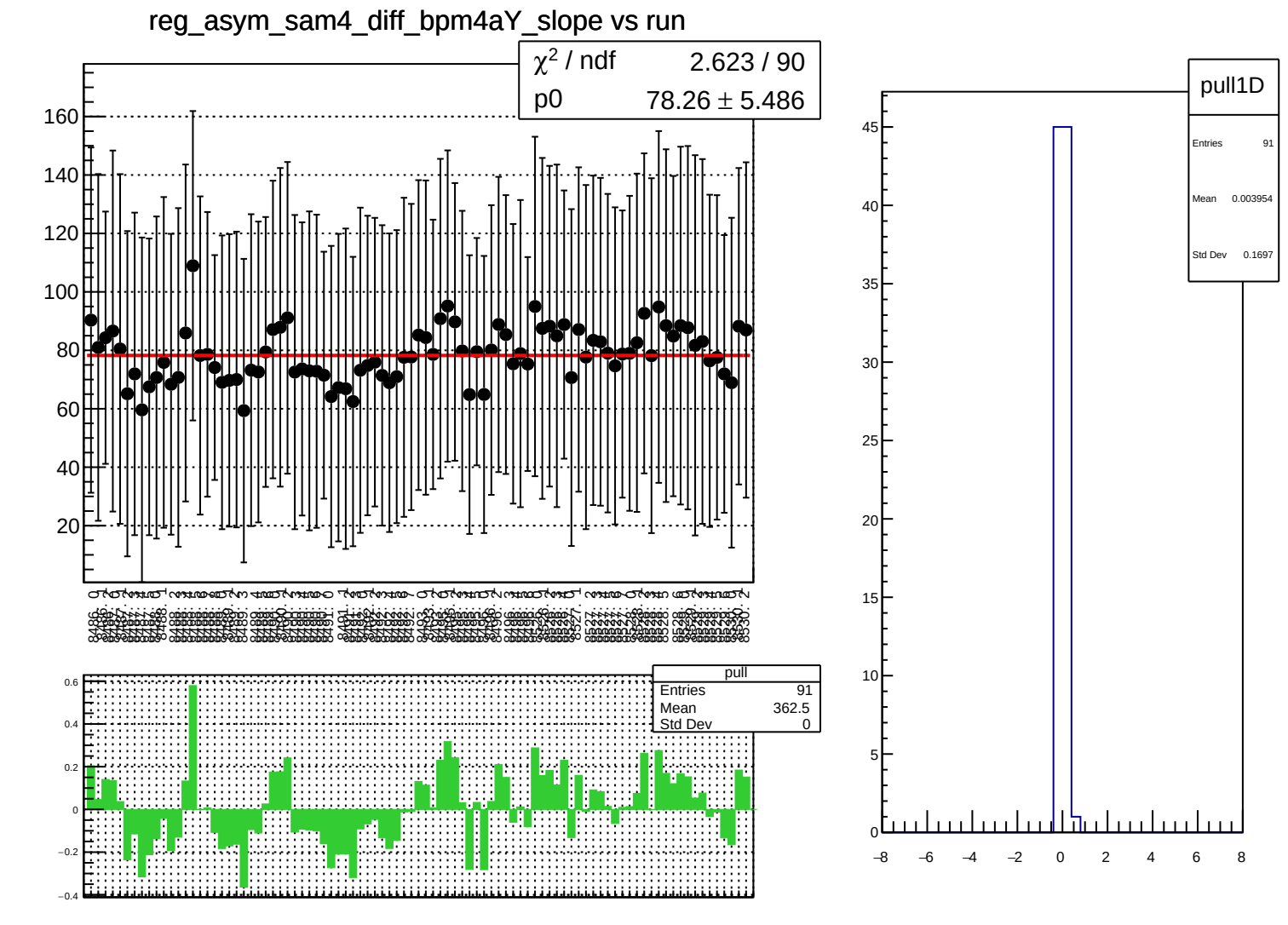

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 5.897 / 90
p0 45.48 ± 3.233
pull
Entries 91
Mean 1690
Std Dev 0

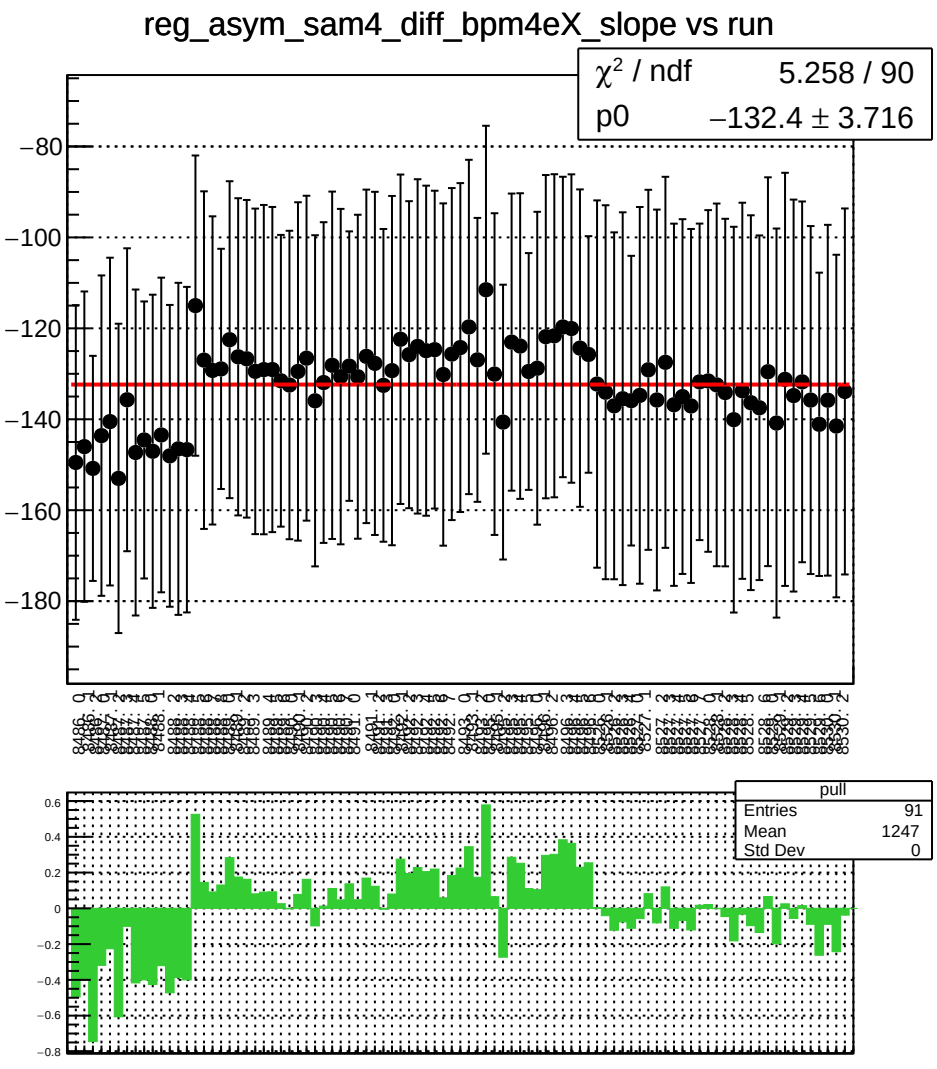

pull1D
Entries 91
Mean −0.001203
Std Dev 0.2546

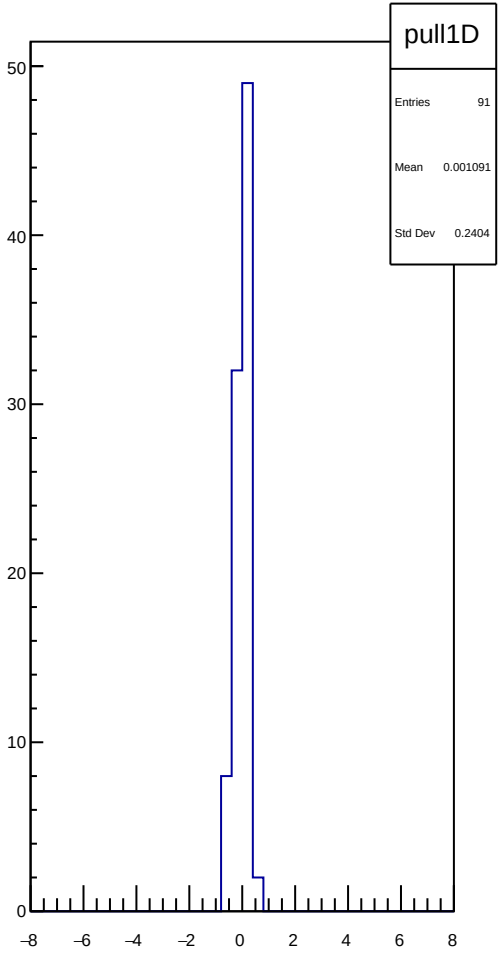

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 4.815 / 90
p0 2.467 ± 0.1934
pull
Entries 91
Mean −99.03
Std Dev 0

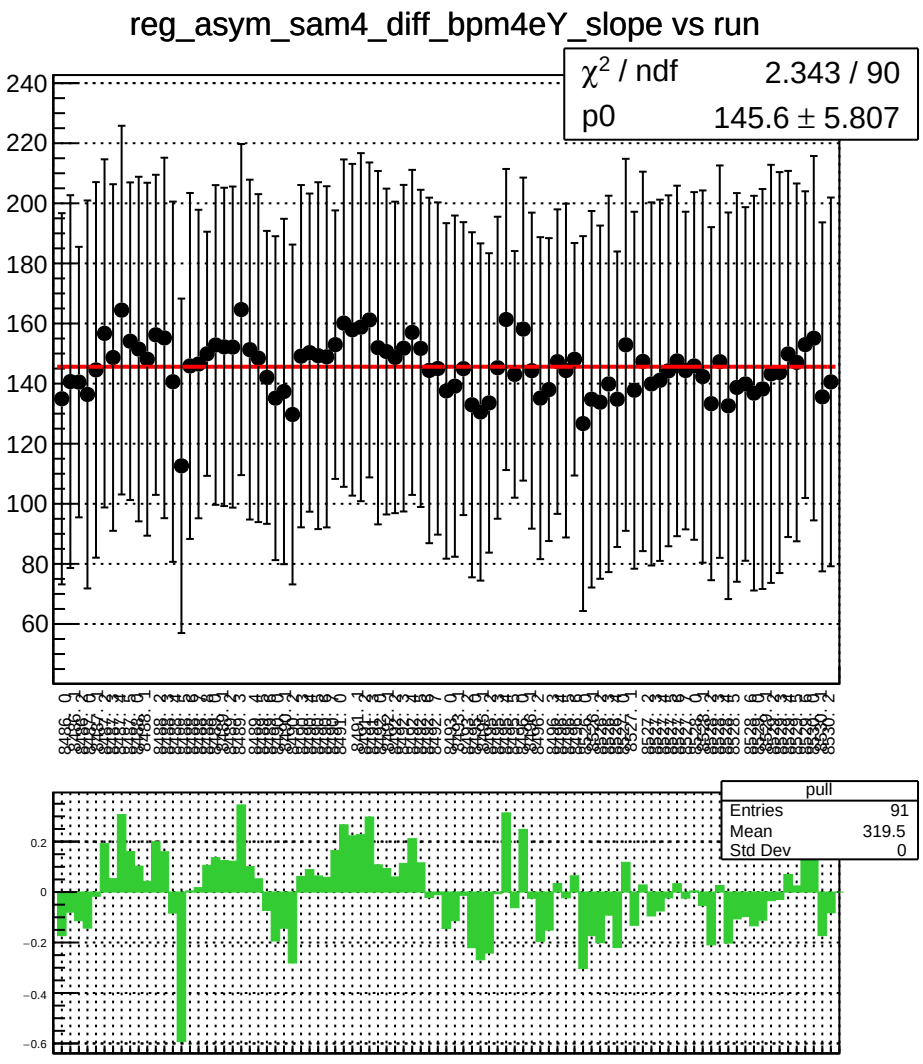

pull1D
Entries 91
Mean 0.005827
Std Dev 0.2299

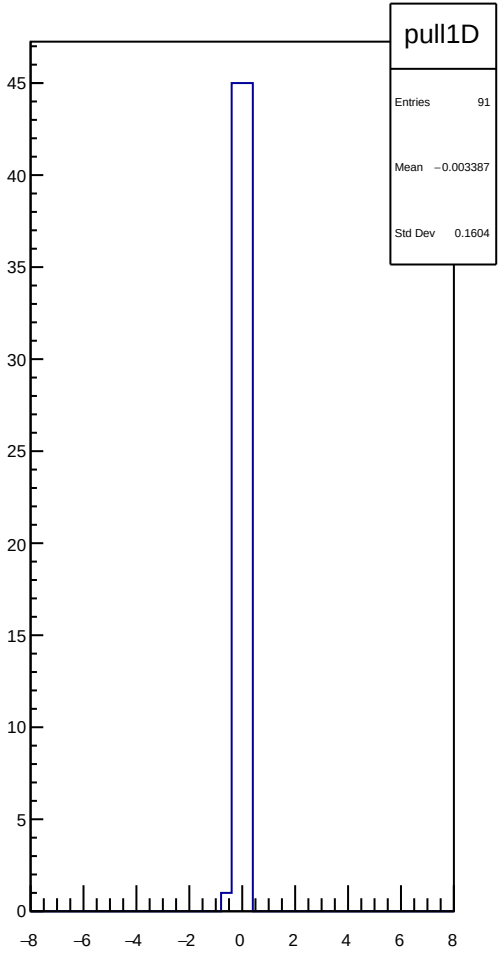

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 7.327 / 90
p0 −36.61 ± 3.412
pull
Entries 91
Mean 339.2
Std Dev 0
pull1D
Entries 91
Mean −0.01051
Std Dev 0.2836

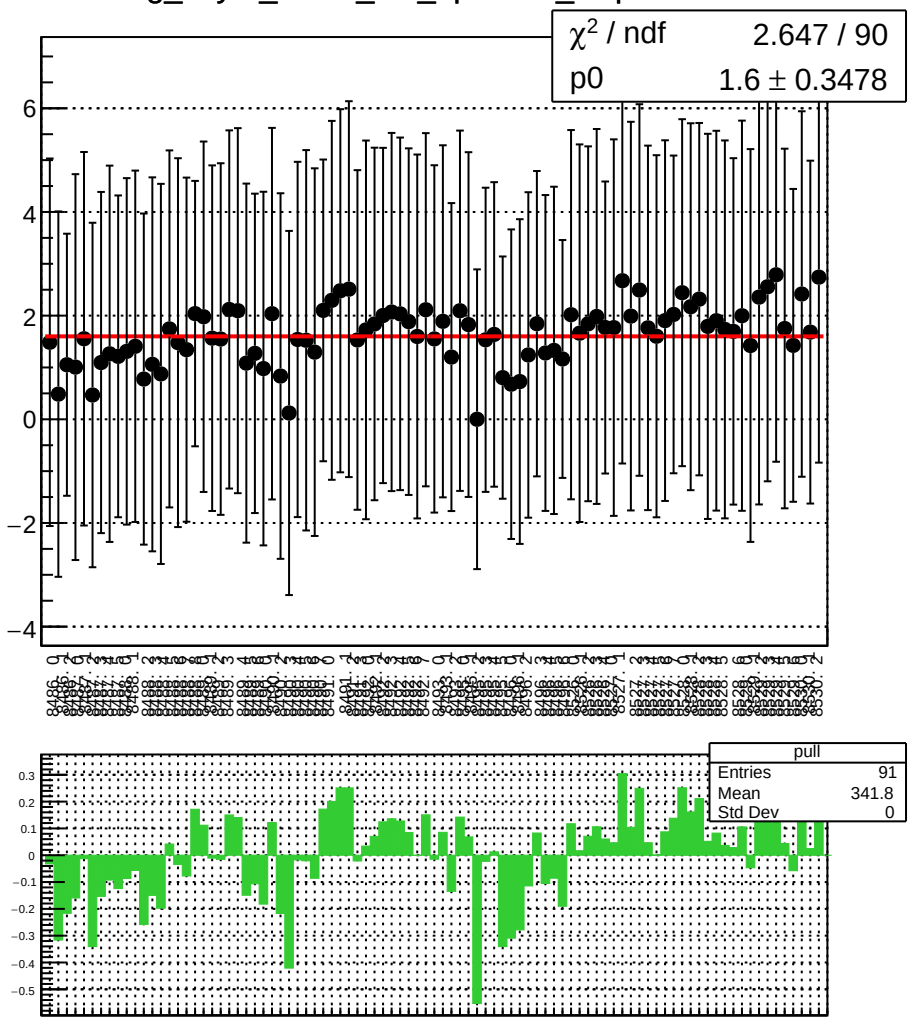

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 2.623 / 90
p0 78.26 ± 5.486
pull
Entries 91
Mean 362.5
Std Dev 0
pull1D
Entries 91
Mean 0.003954
Std Dev 0.1697

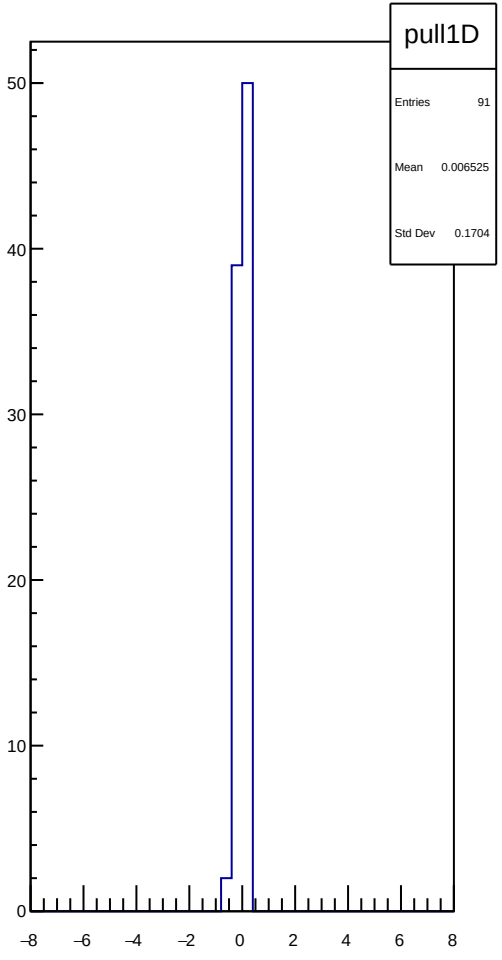

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 5.258 / 90
p0 −132.4 ± 3.716
−80
−100
−120
−140
−160
−180
pull
Entries 91
Mean 1247
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

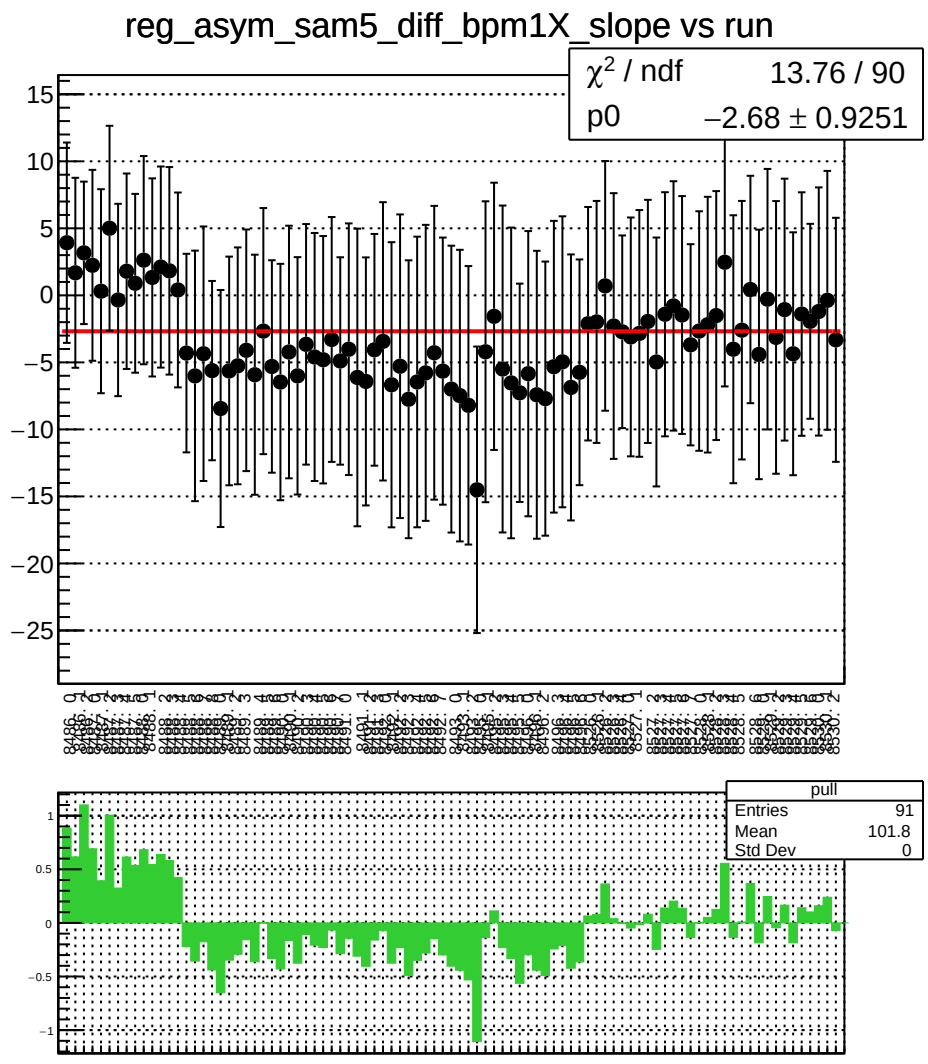

pull1D
Entries 91
Mean 0.001091
Std Dev 0.2404
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

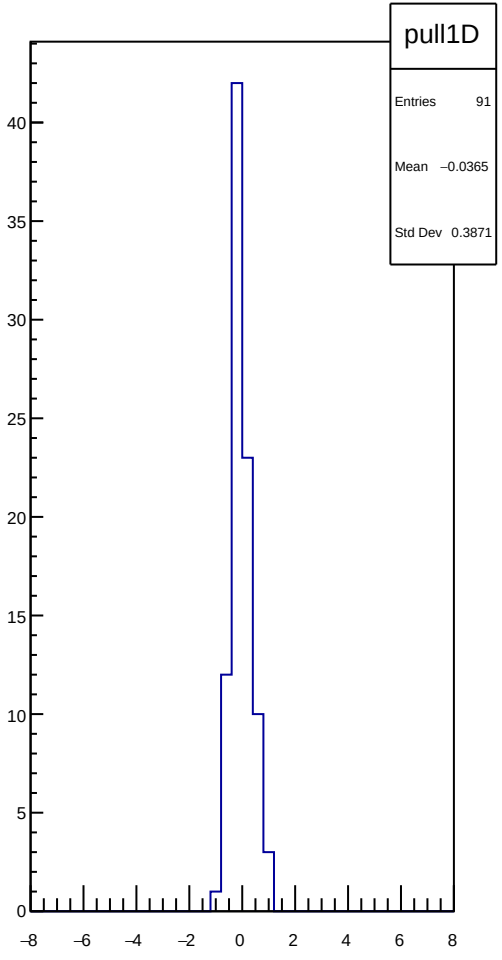

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 2.343 / 90
p0 145.6 ± 5.807
pull
Entries 91
Mean 319.5
Std Dev 0

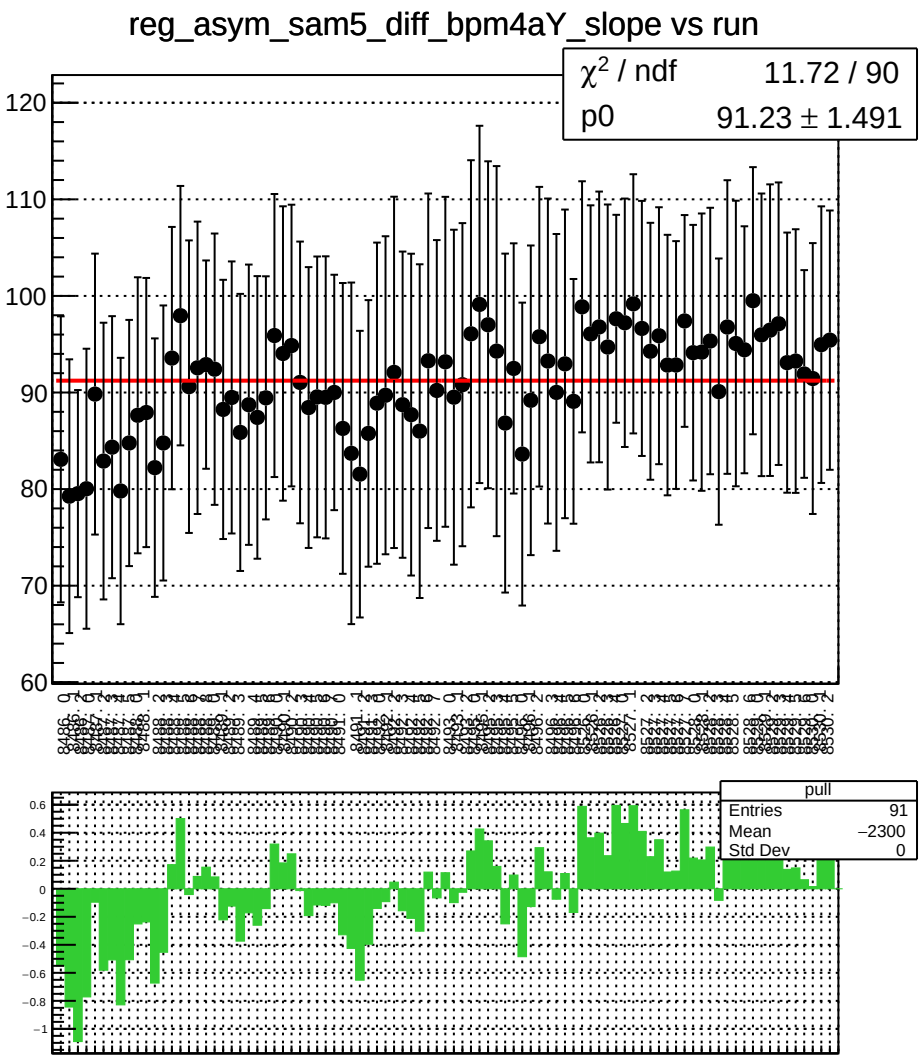

pull1D
Entries 91
Mean −0.003387
Std Dev 0.1604

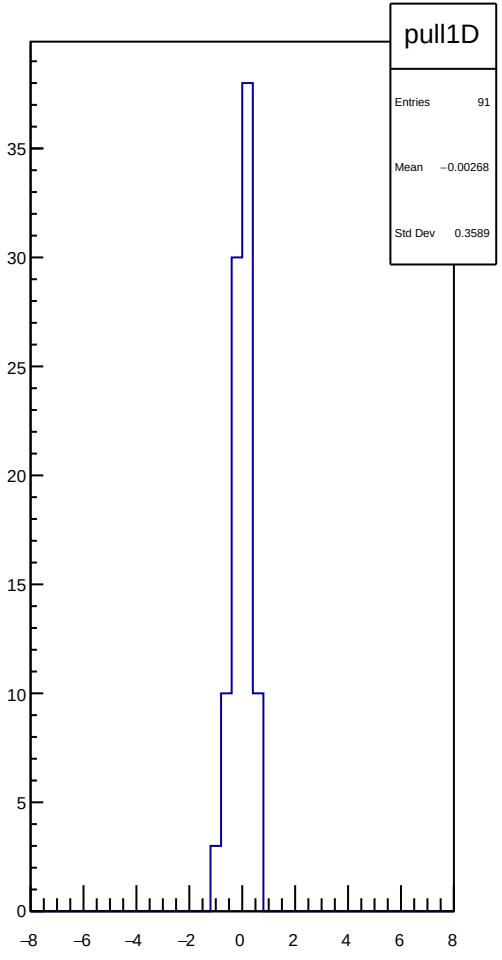

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 2.647 / 90
p0 1.6 ± 0.3478
pull
Entries 91
Mean 341.8
Std Dev 0

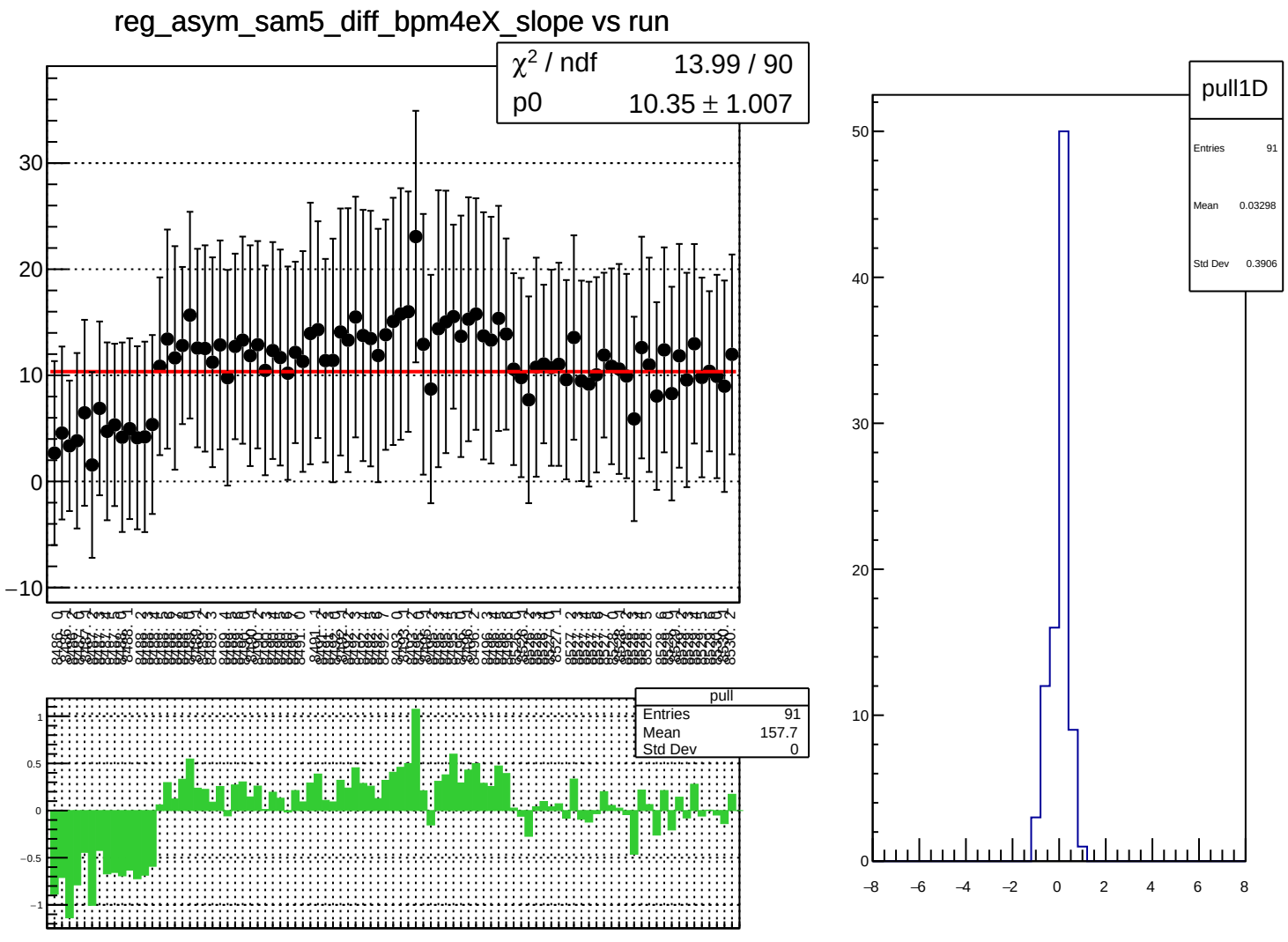

pull1D
Entries 91
Mean 0.006525
Std Dev 0.1704

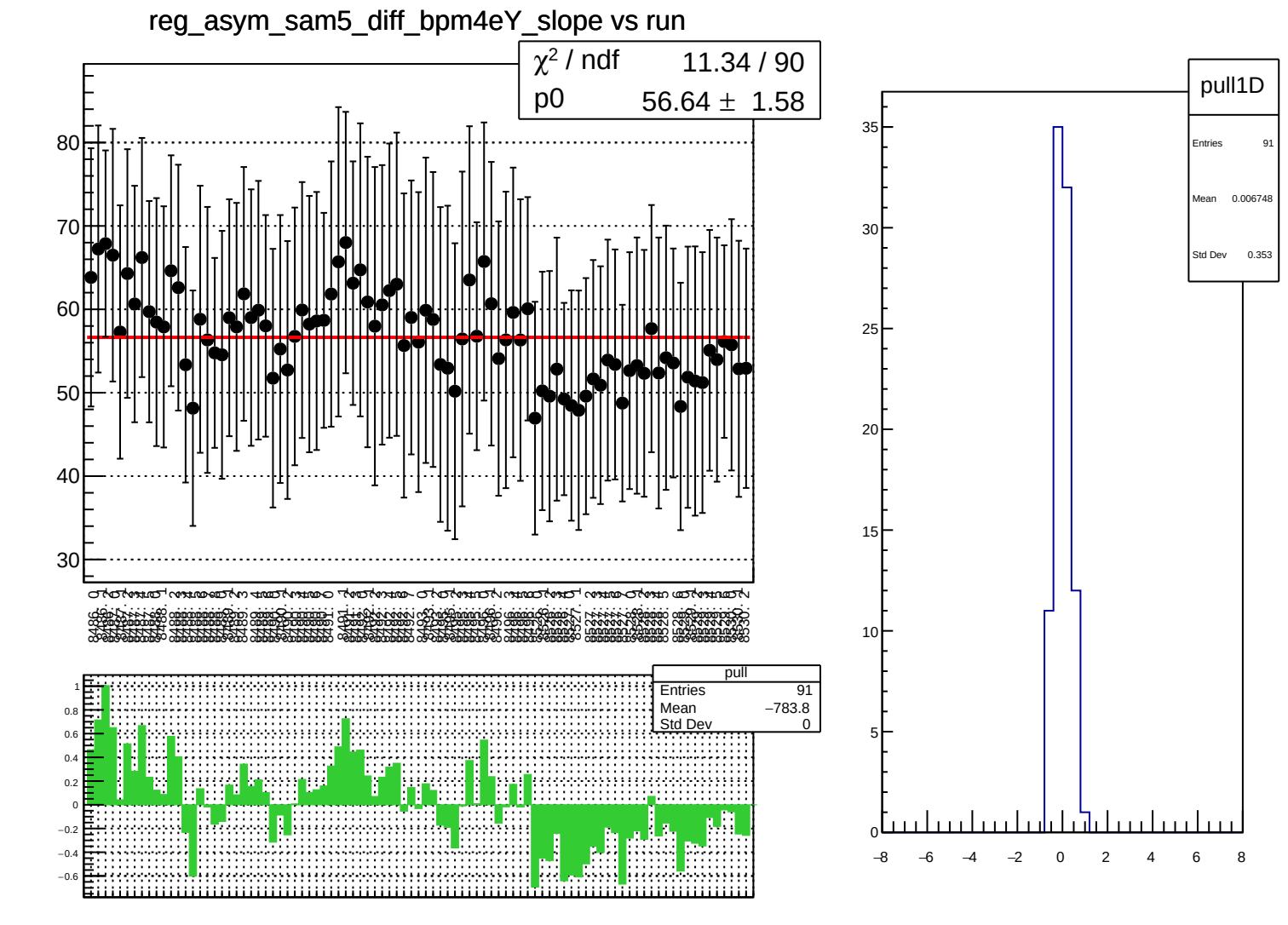

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 13.76 / 90
p0 −2.68 ± 0.9251
pull
Entries 91
Mean 101.8
Std Dev 0

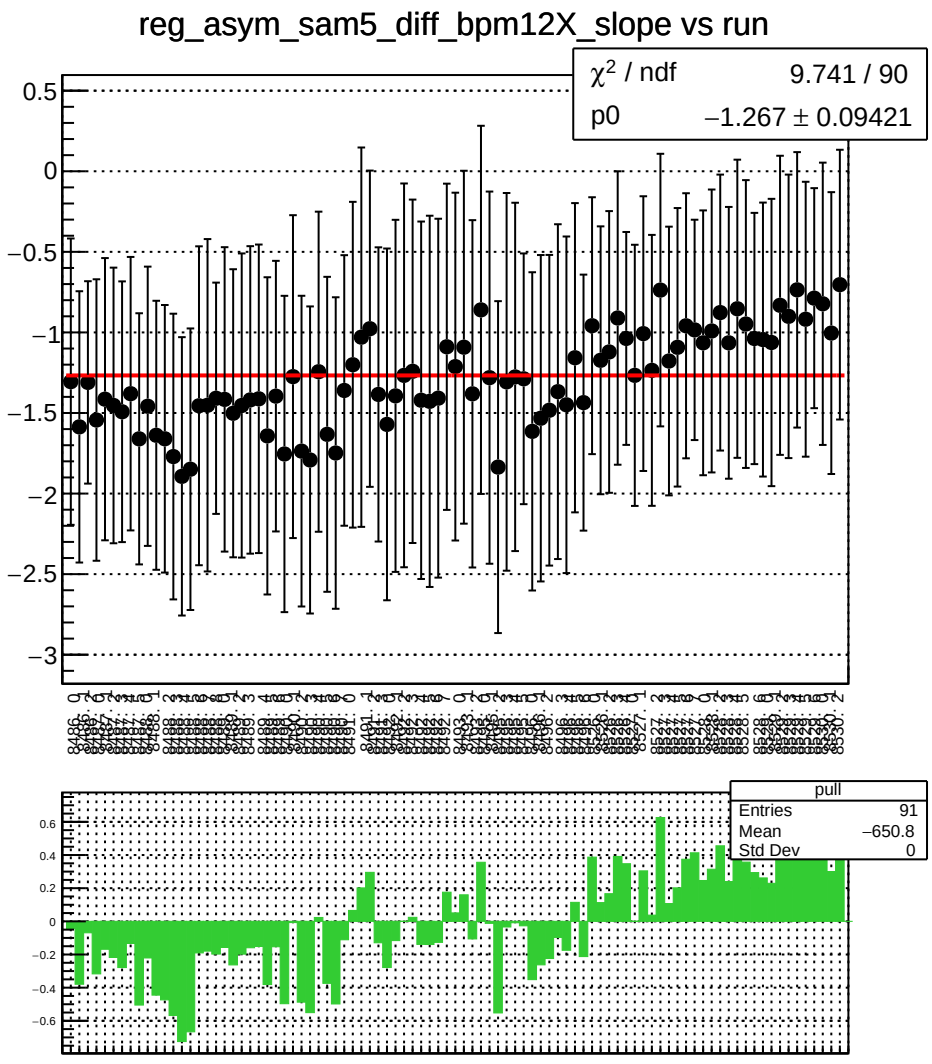

pull1D
Entries 91
Mean −0.0365
Std Dev 0.3871

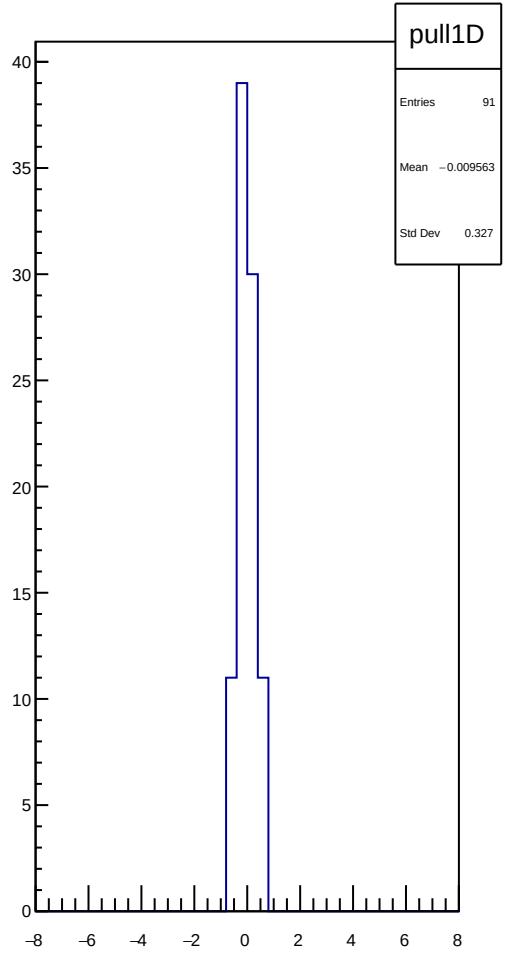

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 11.72 / 90
p0 91.23 ± 1.491
pull
Entries 91
Mean −2300
Std Dev 0

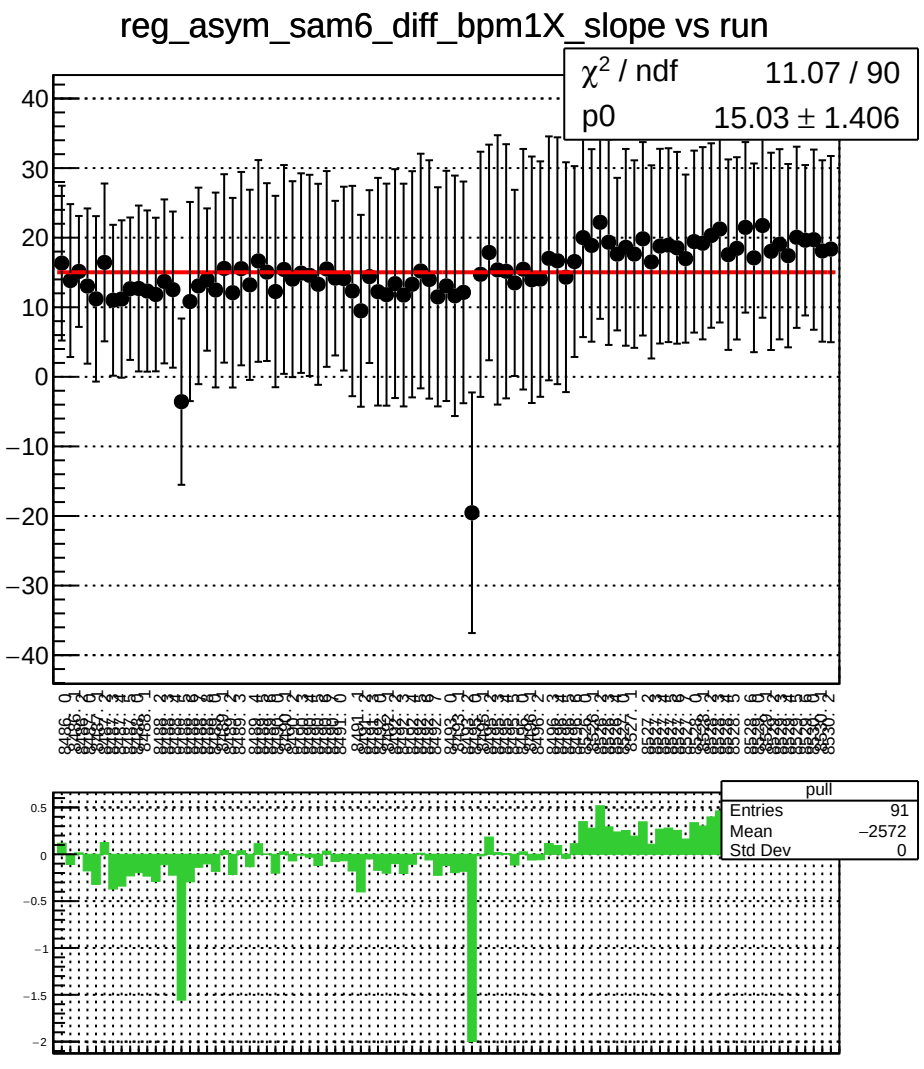

pull1D
Entries 91
Mean −0.00268
Std Dev 0.3589

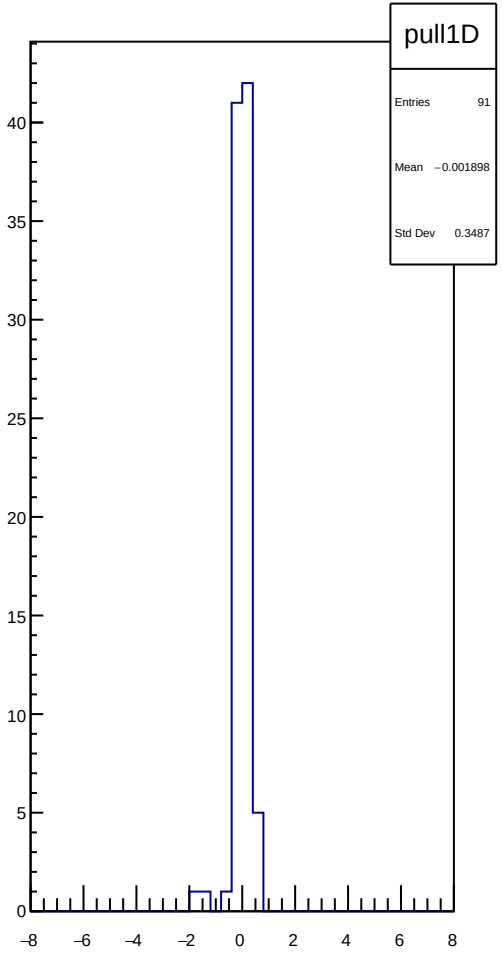

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 13.99 / 90
p0 10.35 ± 1.007
pull
Entries 91
Mean 157.7
Std Dev 0
pull1D
Entries 91
Mean 0.03298
Std Dev 0.3906

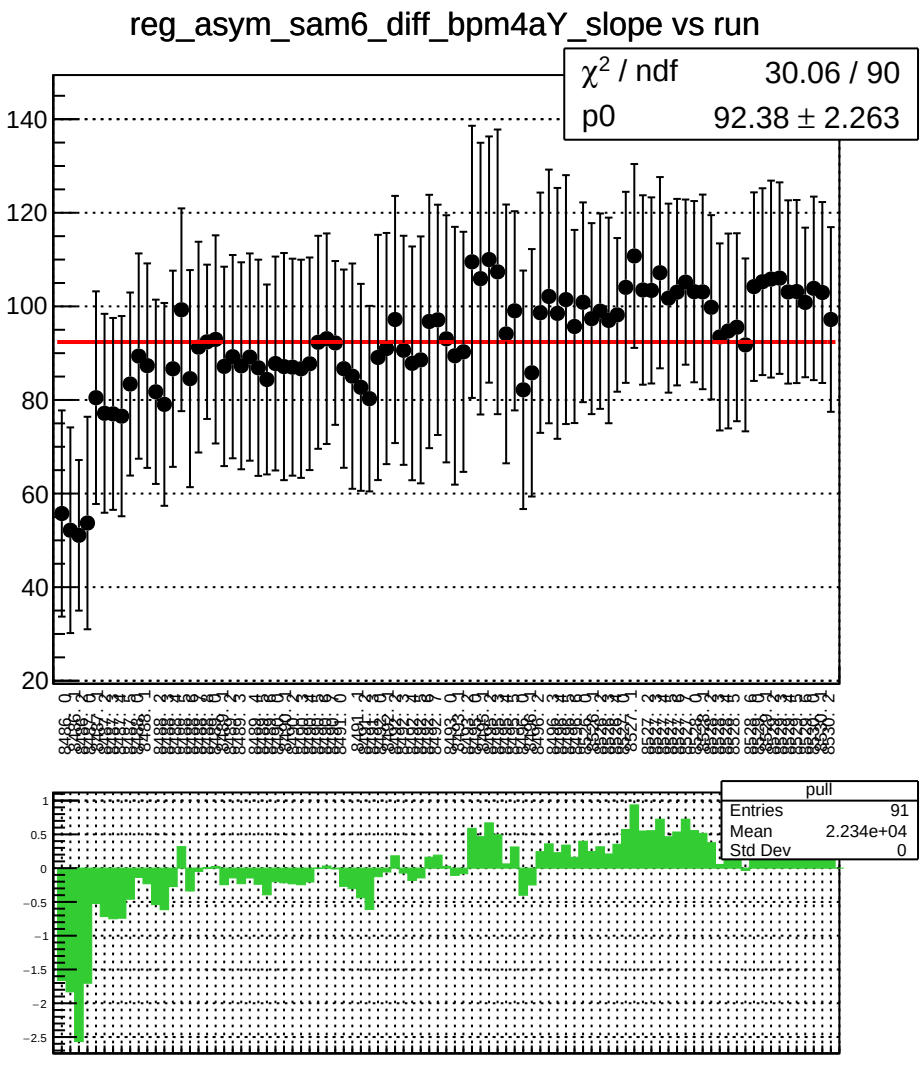

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 11.34 / 90
p0 56.64 ± 1.58
pull
Entries 91
Mean −783.8
Std Dev 0
pull1D
Entries 91
Mean 0.006748
Std Dev 0.353

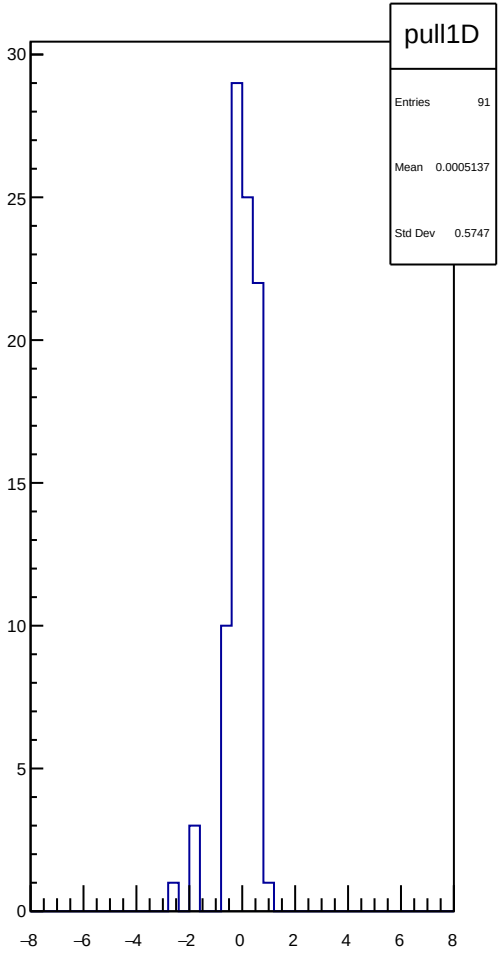

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 9.741 / 90
p0 −1.267 ± 0.09421
pull
Entries 91
Mean −650.8
Std Dev 0

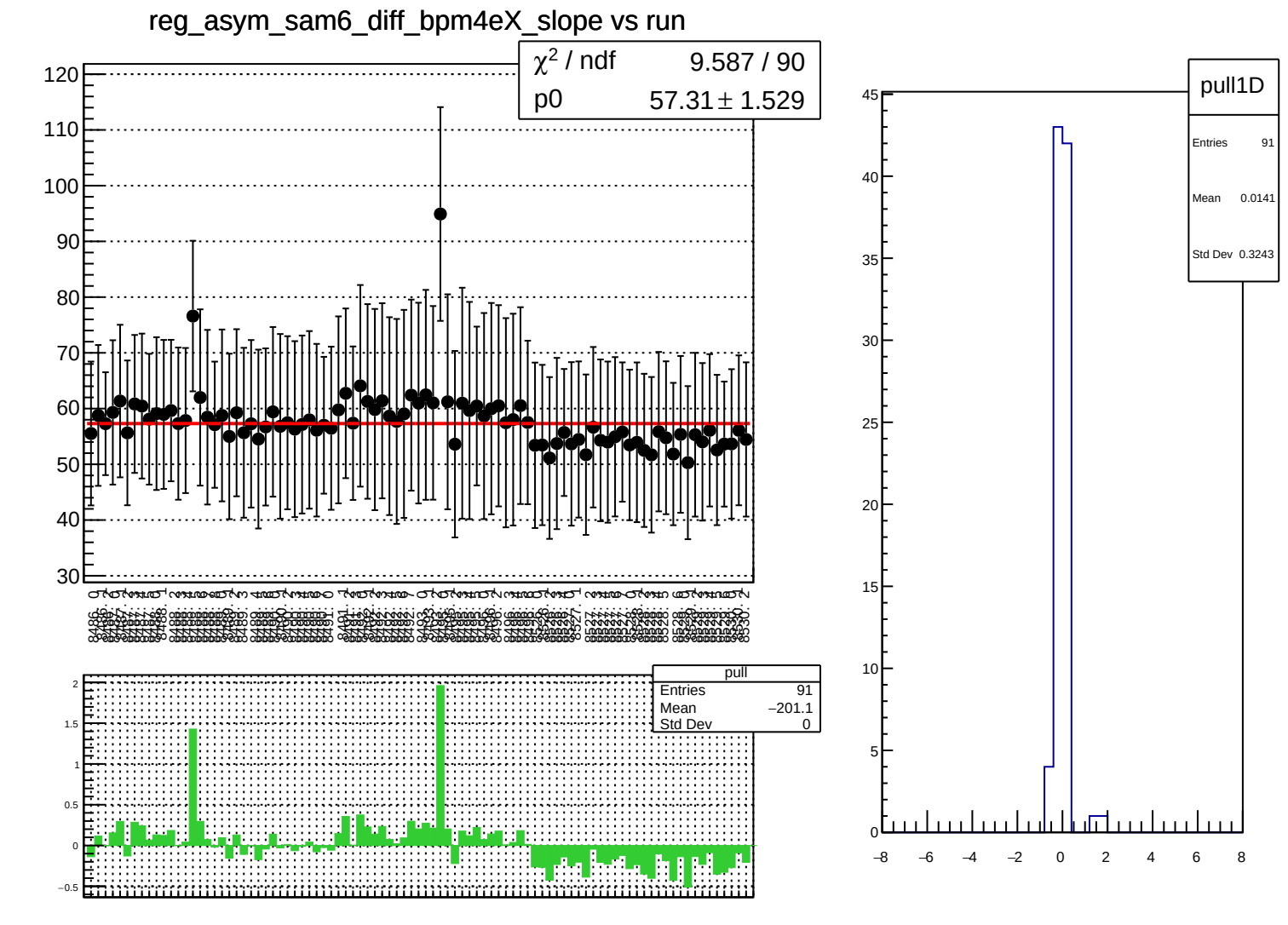

pull1D
Entries 91
Mean −0.009563
Std Dev 0.327

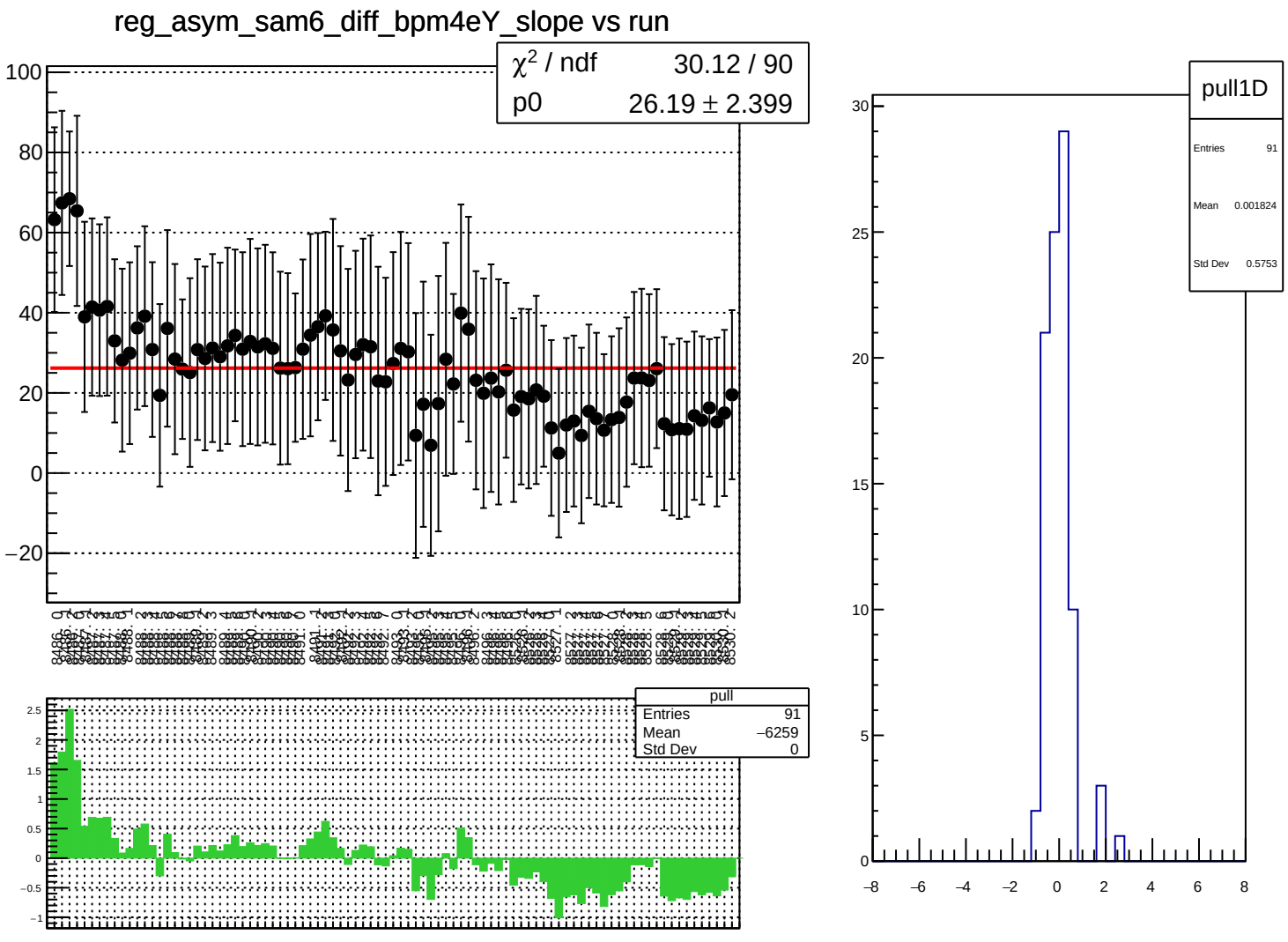

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 11.07 / 90
p0 15.03 ± 1.406
pull
Entries 91
Mean −2572
Std Dev 0

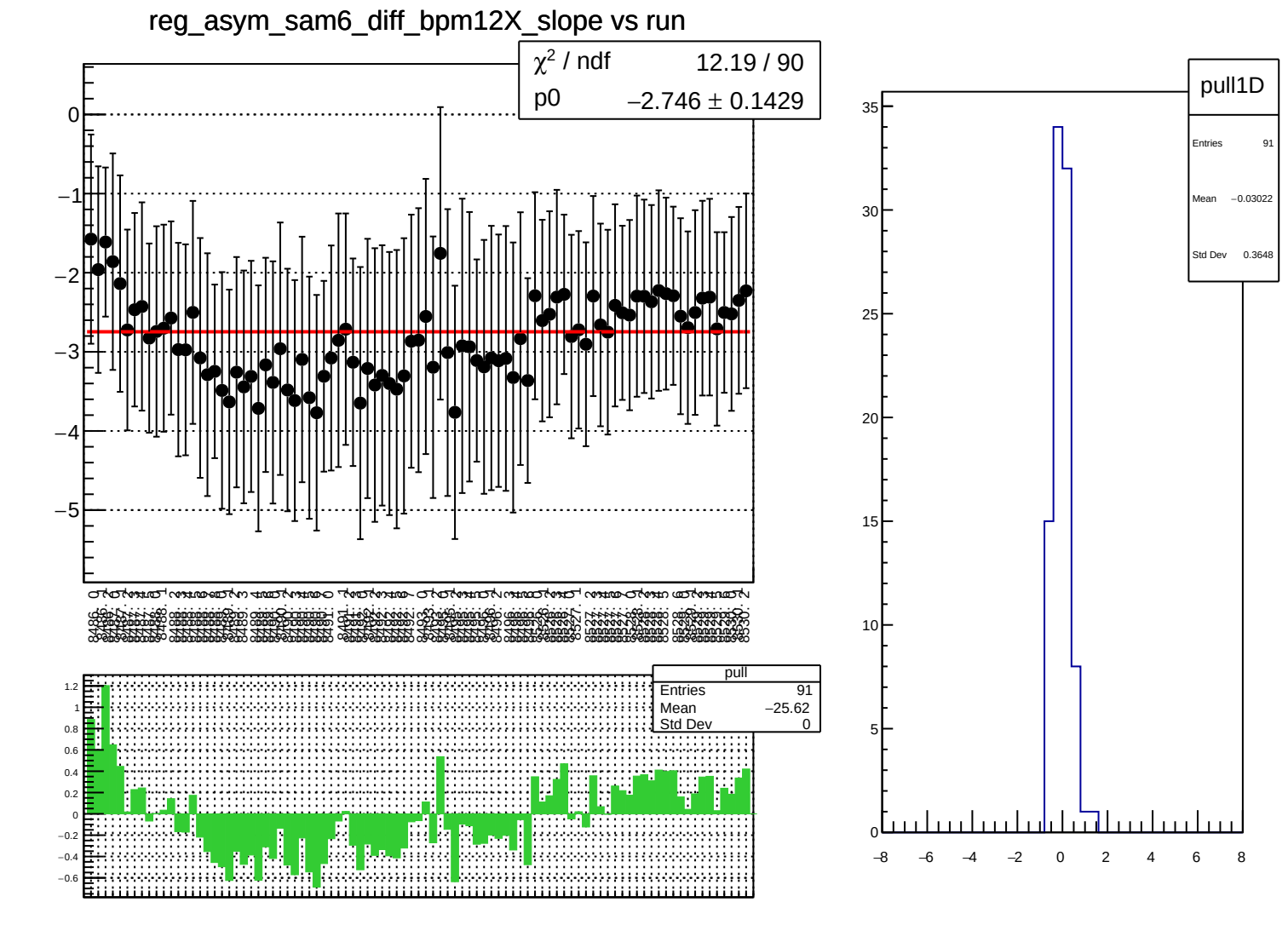

pull1D
Entries 91
Mean −0.001898
Std Dev 0.3487

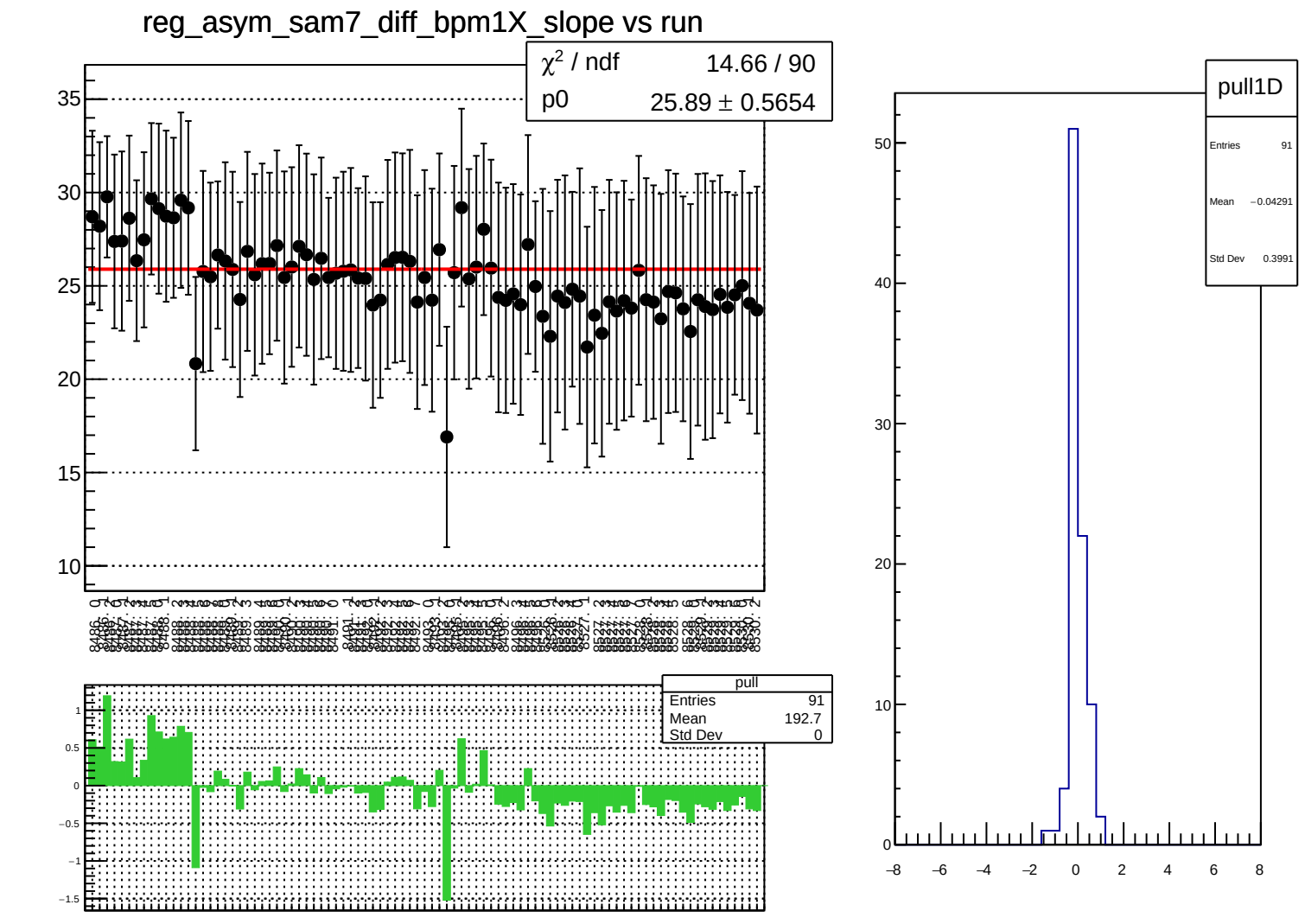

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 30.06 / 90
p0 92.38 ± 2.263
pull
Entries 91
Mean 2.234e+04
Std Dev 0

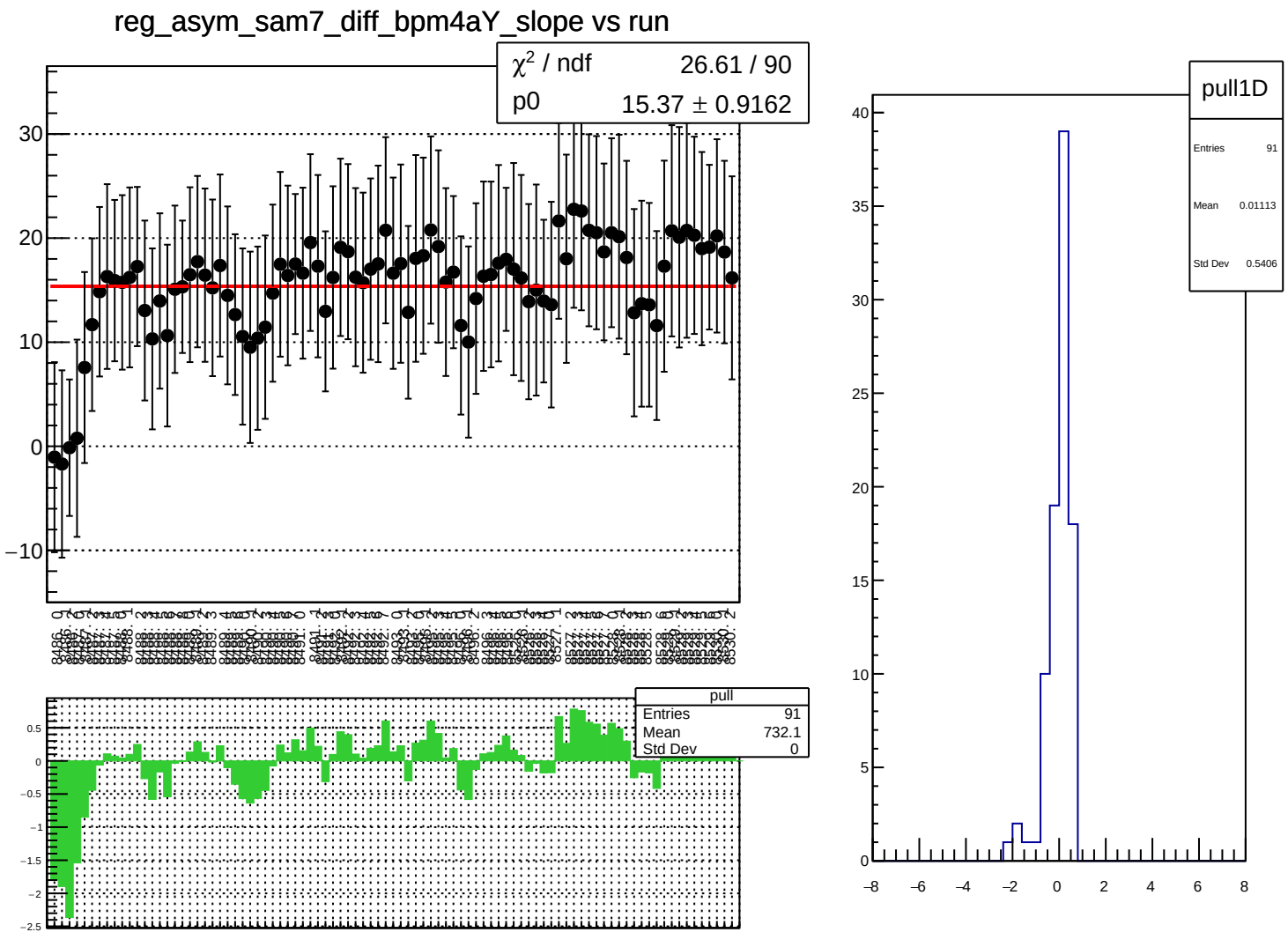

pull1D
Entries 91
Mean 0.0005137
Std Dev 0.5747

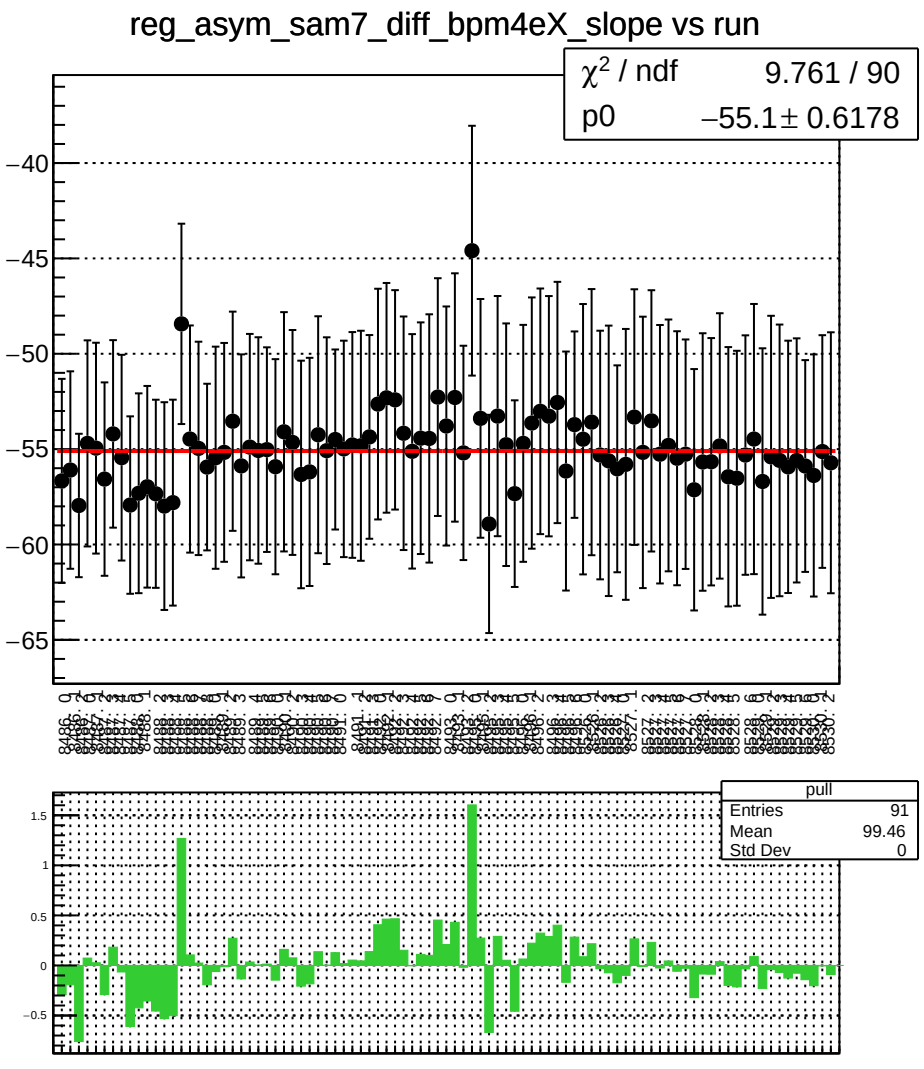

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 9.587 / 90
p0 57.31 ± 1.529
pull
Entries 91
Mean −201.1
Std Dev 0
pull1D
Entries 91
Mean 0.0141
Std Dev 0.3243

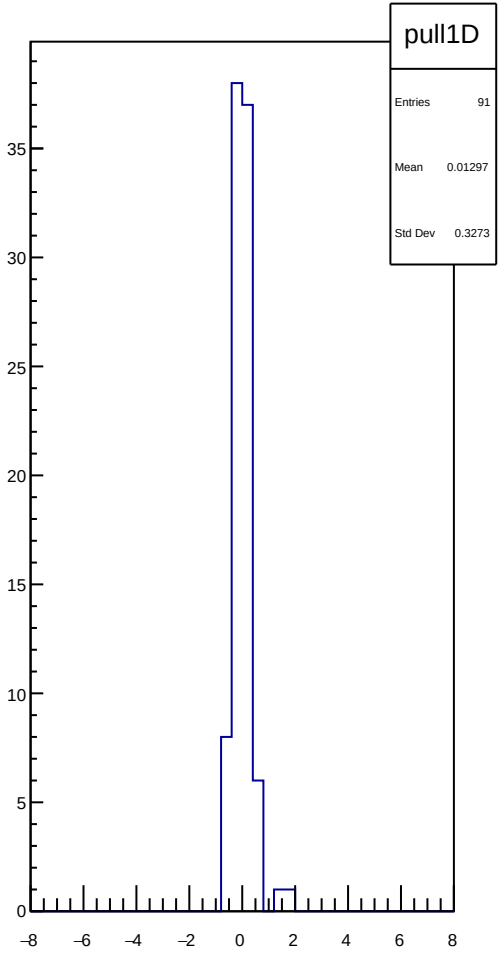

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 30.12 / 90
p0 26.19 ± 2.399
pull
Entries 91
Mean −6259
Std Dev 0
pull1D
Entries 91
Mean 0.001824
Std Dev 0.5753

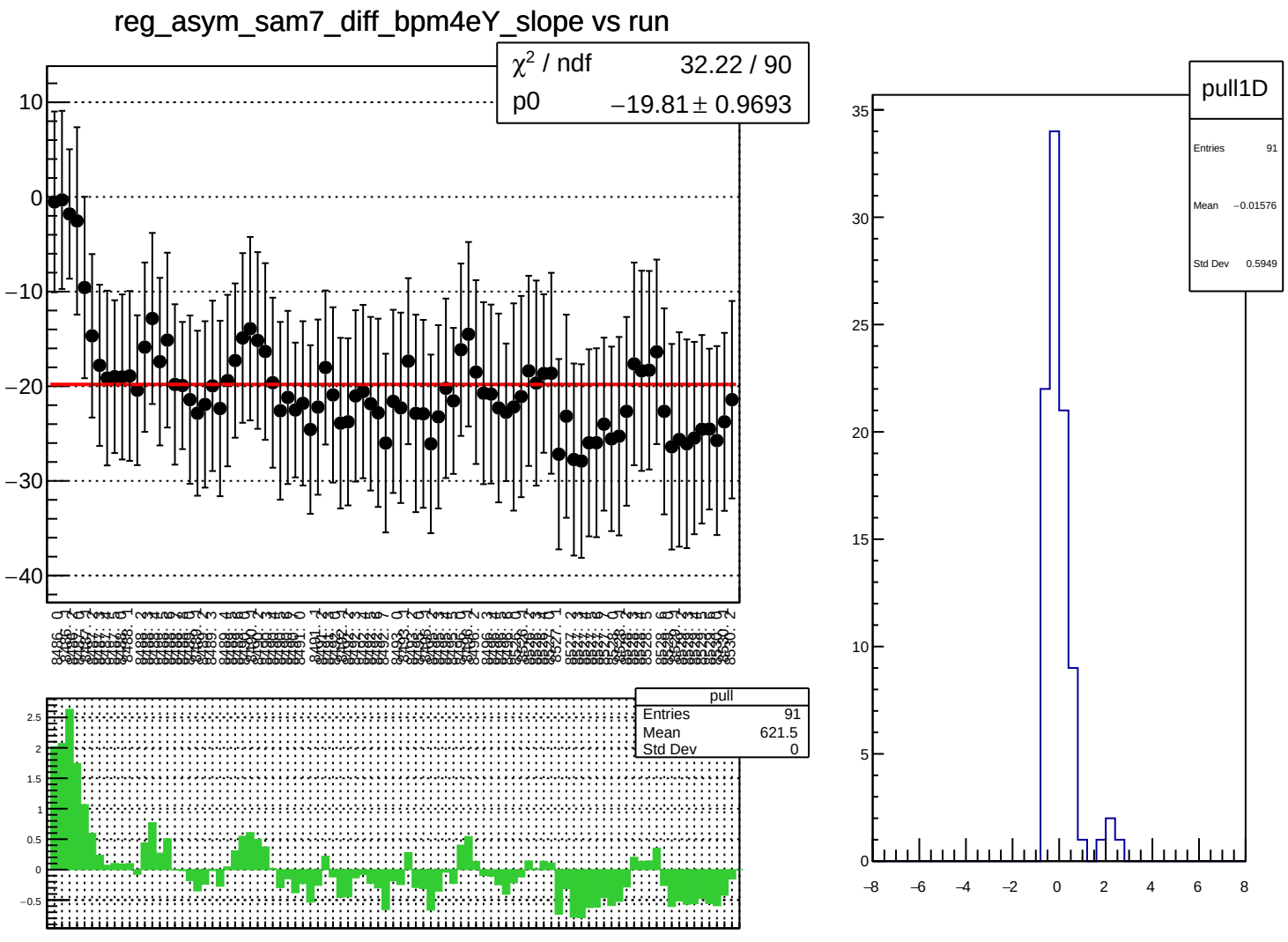

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 12.19 / 90
p0 −2.746 ± 0.1429
pull
Entries 91
Mean −25.62
Std Dev 0
pull1D
Entries 91
Mean −0.03022
Std Dev 0.3648

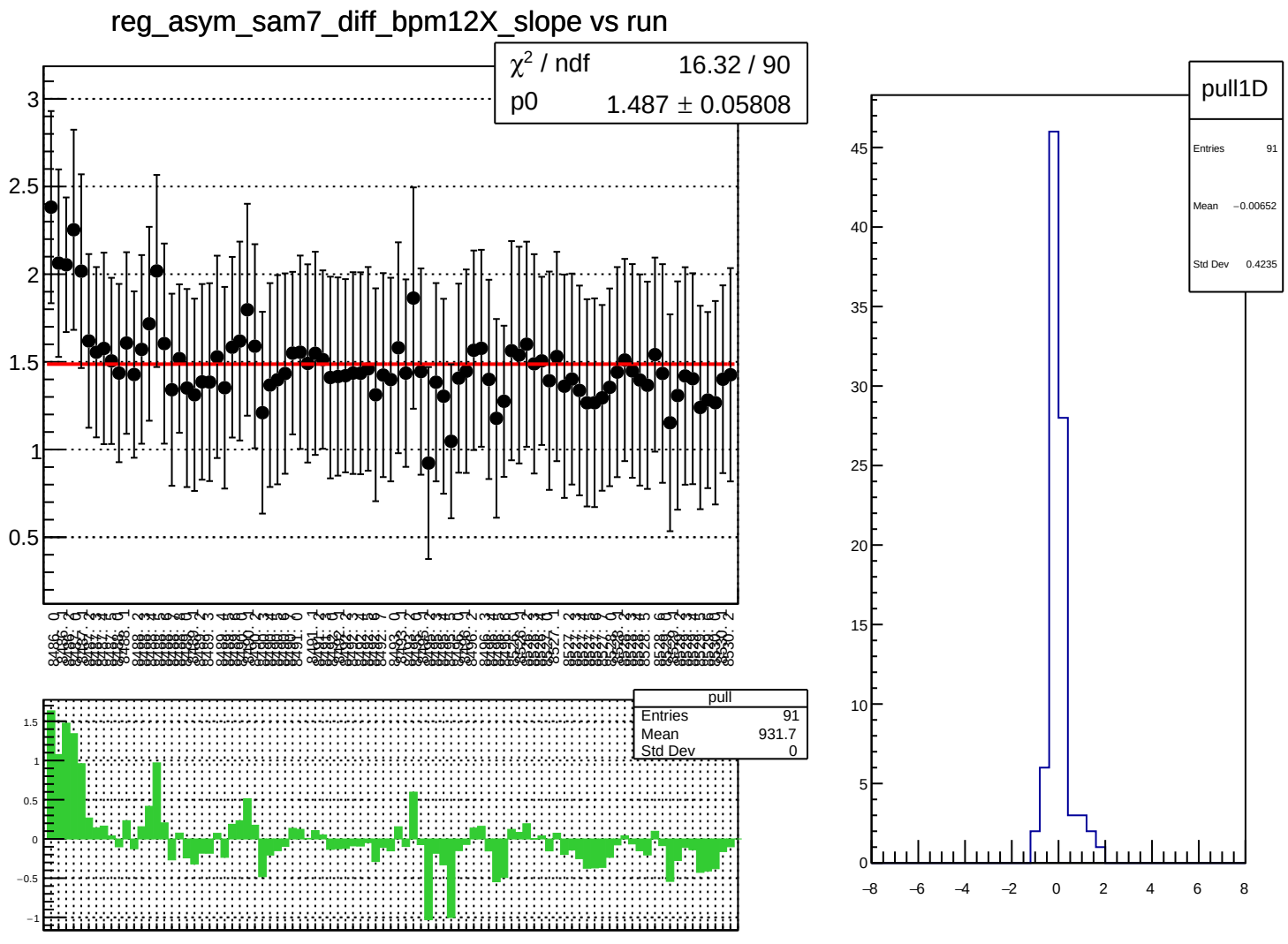

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 14.66 / 90
p0 25.89 ± 0.5654
pull
Entries 91
Mean 192.7
Std Dev 0
pull1D
Entries 91
Mean −0.04291
Std Dev 0.3991

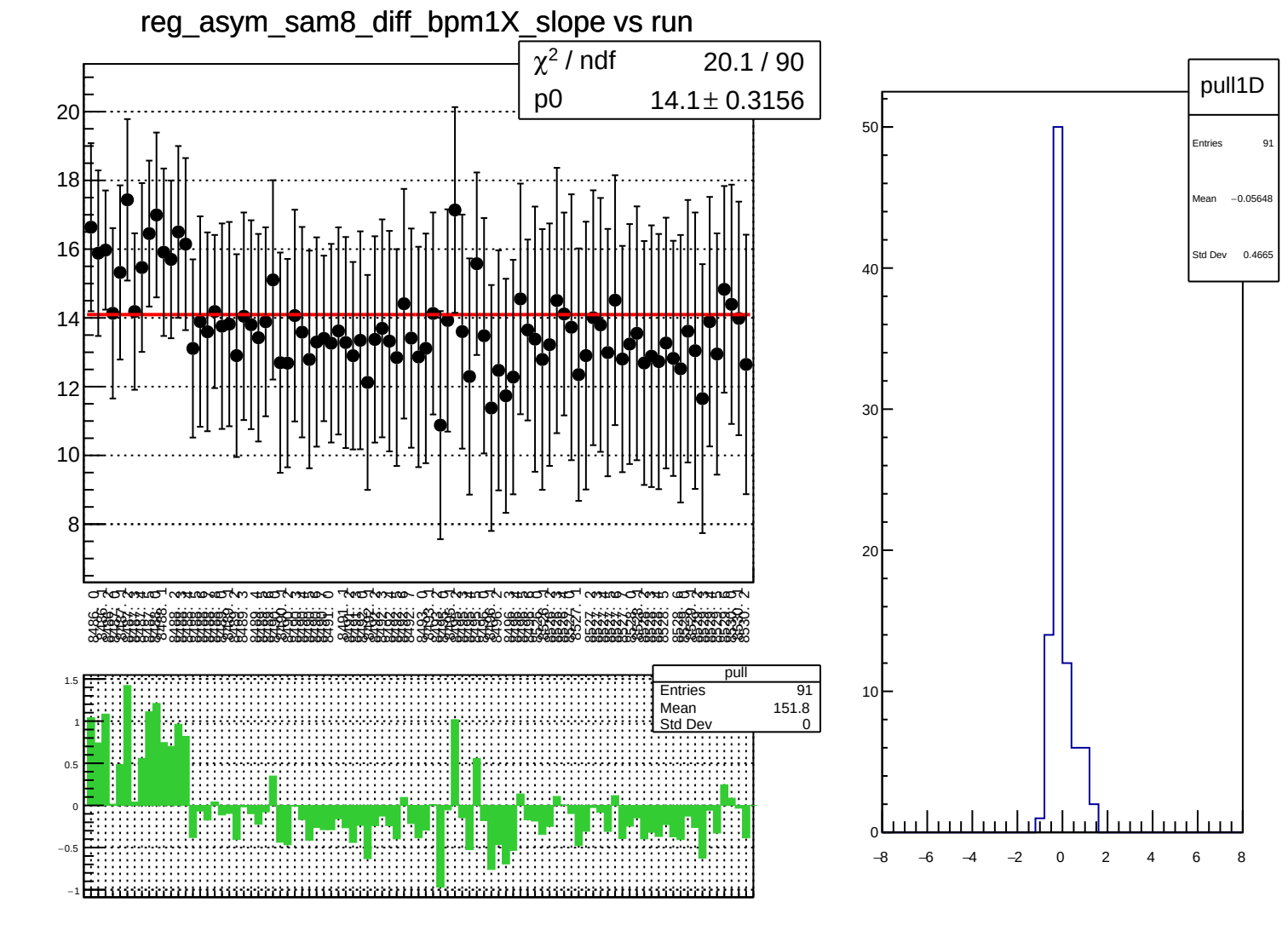

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 26.61 / 90
p0 15.37 ± 0.9162
pull
Entries 91
Mean 732.1
Std Dev 0
pull1D
Entries 91
Mean 0.01113
Std Dev 0.5406

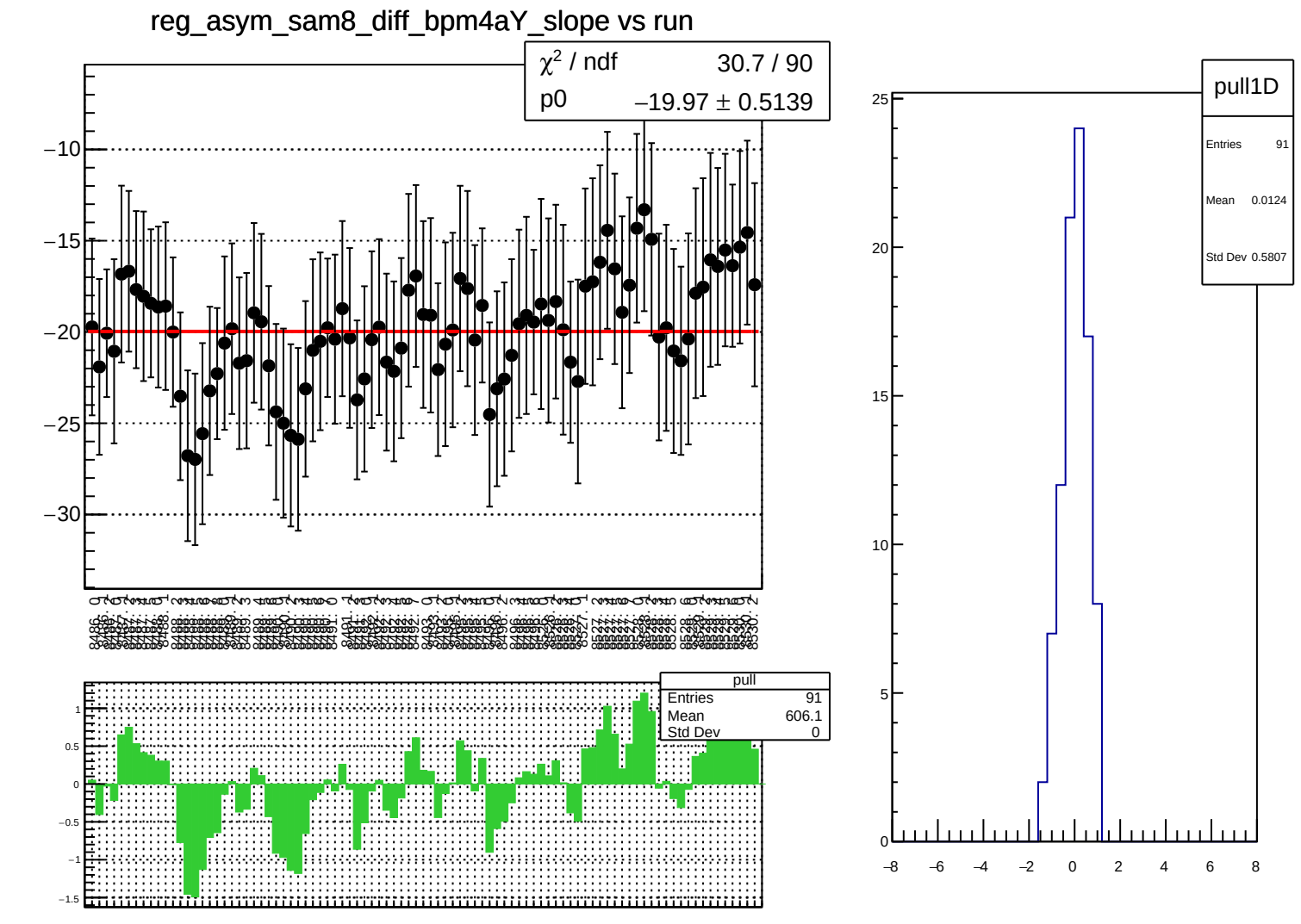

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 9.761 / 90
p0 −55.1 ± 0.6178
pull
Entries 91
Mean 99.46
Std Dev 0

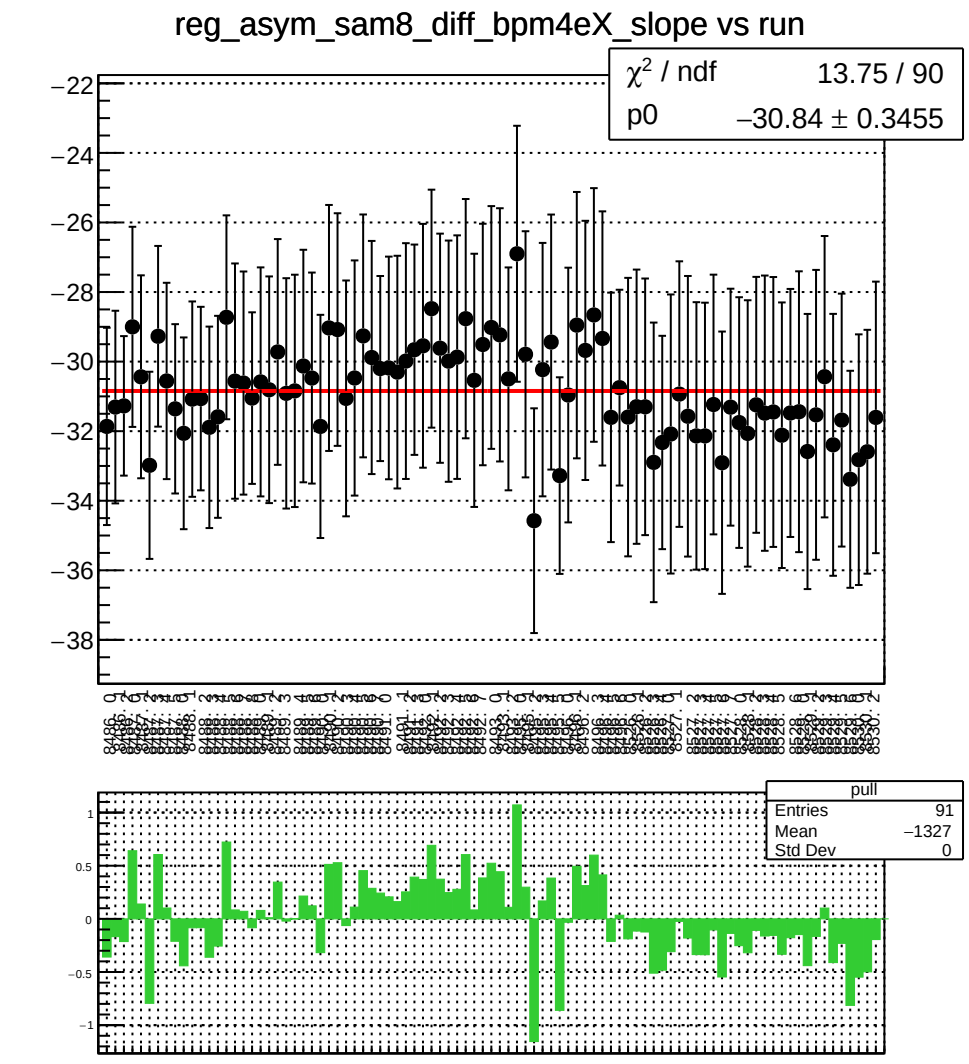

pull1D
Entries 91
Mean 0.01297
Std Dev 0.3273

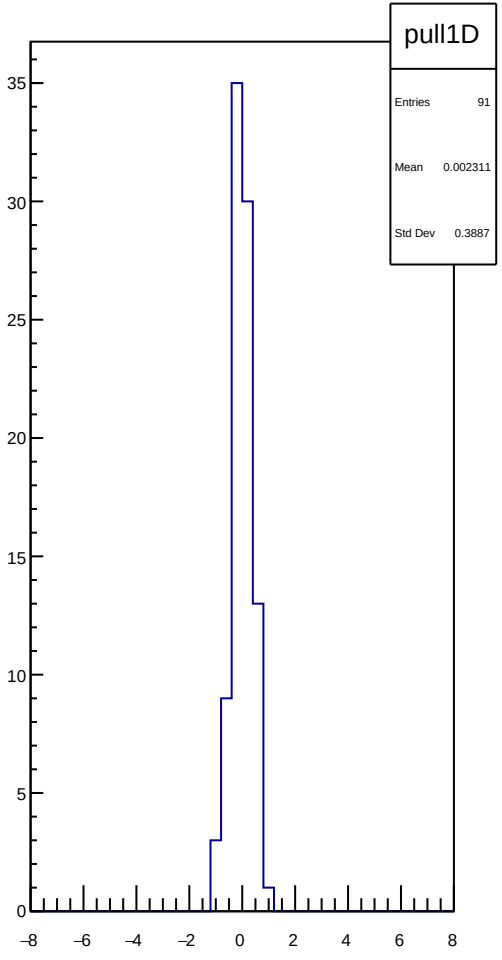

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 32.22 / 90
p0 −19.81 ± 0.9693
pull
Entries 91
Mean 621.5
Std Dev 0
pull1D
Entries 91
Mean −0.01576
Std Dev 0.5949

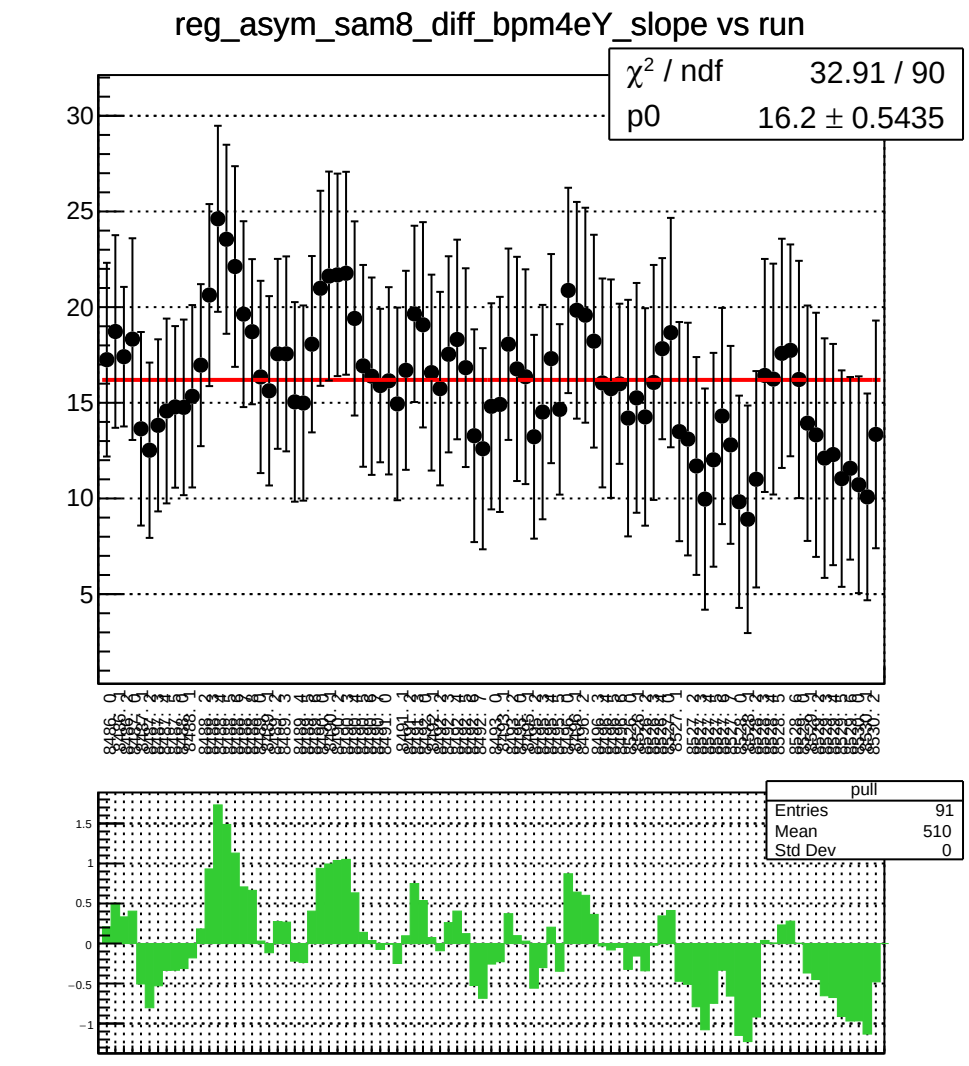

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 16.32 / 90
p0 1.487 ± 0.05808
pull
Entries 91
Mean 931.7
Std Dev 0
pull1D
Entries 91
Mean −0.00652
Std Dev 0.4235

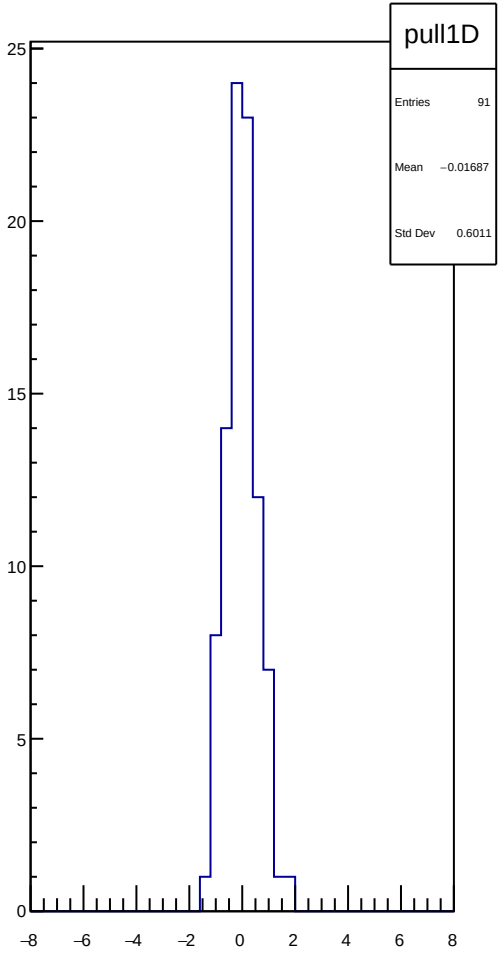

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 20.1 / 90
p0 14.1 ± 0.3156
pull
Entries 91
Mean 151.8
Std Dev 0
pull1D
Entries 91
Mean −0.05648
Std Dev 0.4665

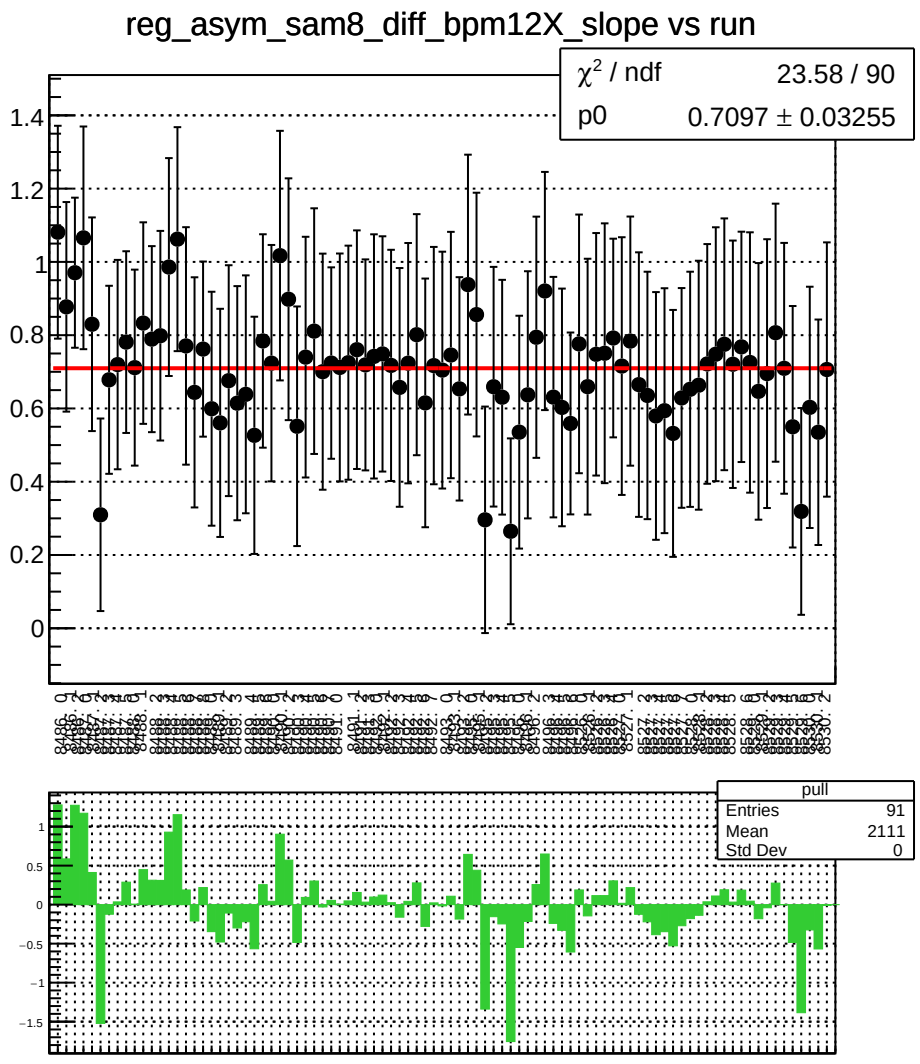

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 30.7 / 90
p0 −19.97 ± 0.5139
−10
−15
−20
−25
−30
pull
Entries 91
Mean 606.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 91
Mean 0.0124
Std Dev 0.5807
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

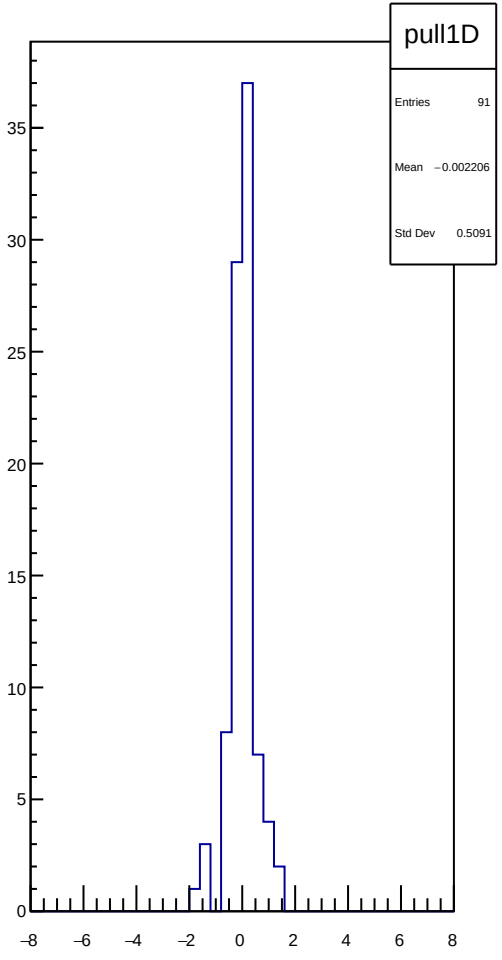

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 13.75 / 90
p0 −30.84 ± 0.3455
pull
Entries 91
Mean −1327
Std Dev 0

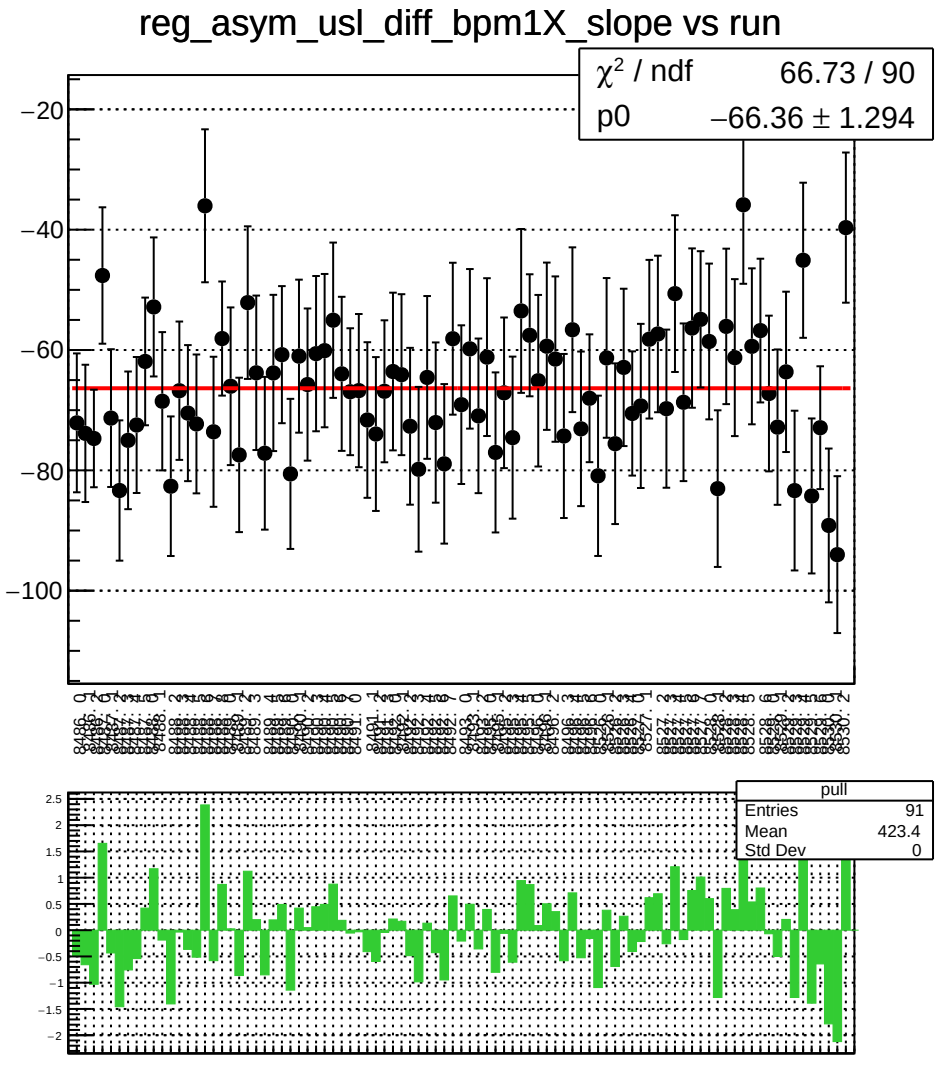

pull1D
Entries 91
Mean 0.002311
Std Dev 0.3887

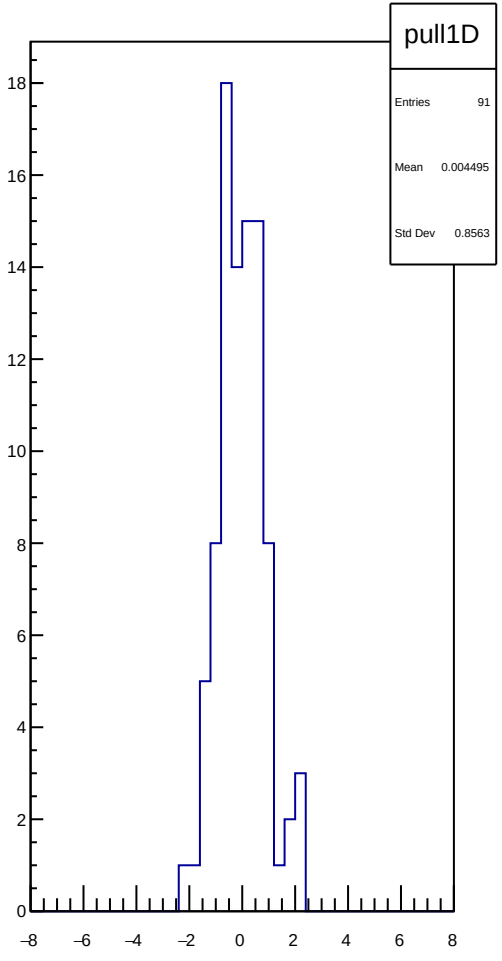

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 32.91 / 90
p0 16.2 ± 0.5435
pull
Entries 91
Mean 510
Std Dev 0

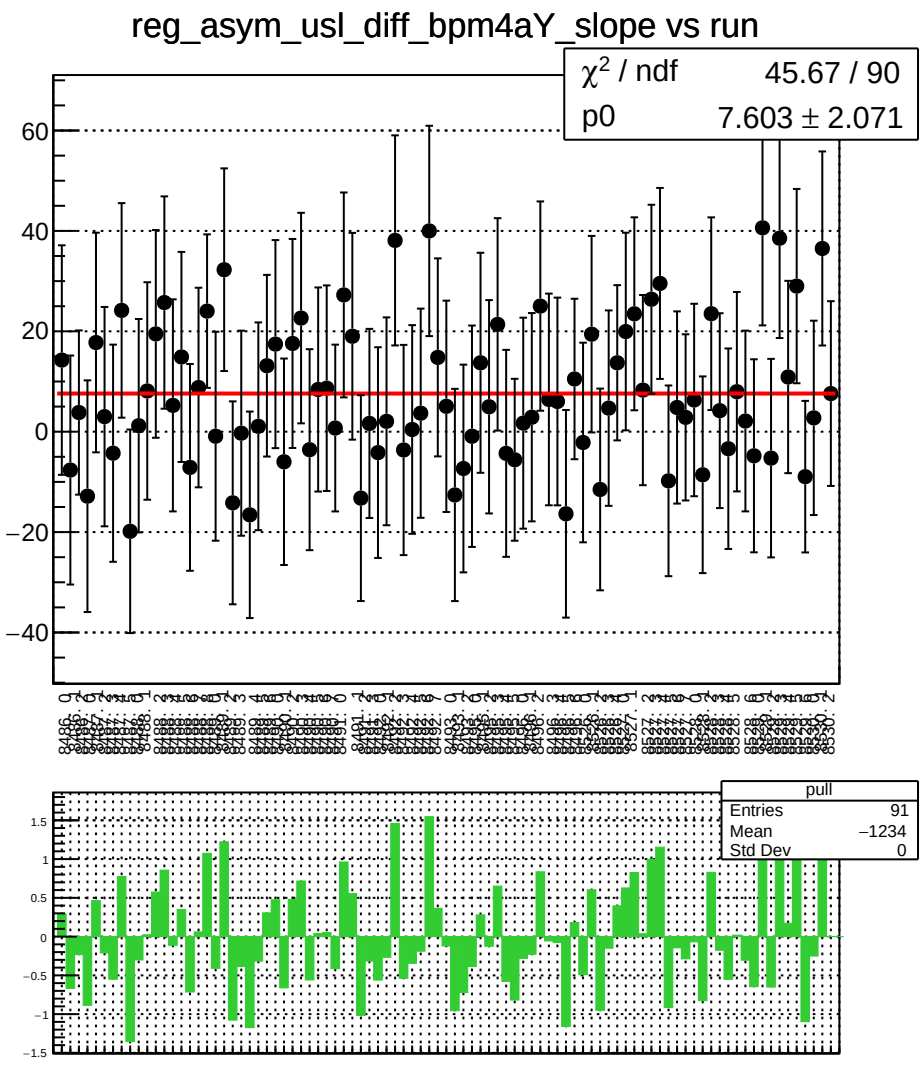

pull1D
Entries 91
Mean −0.01687
Std Dev 0.6011

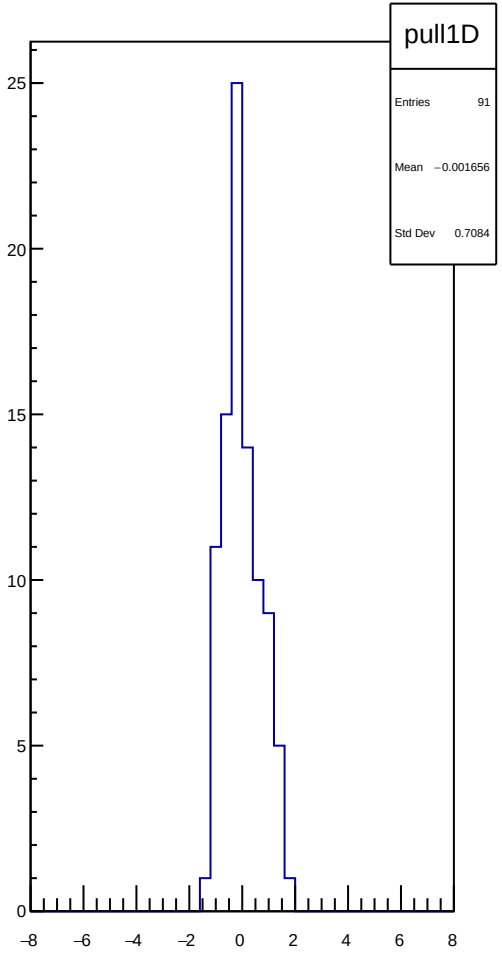

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 23.58 / 90
p0 0.7097 ± 0.03255
pull
Entries 91
Mean 2111
Std Dev 0

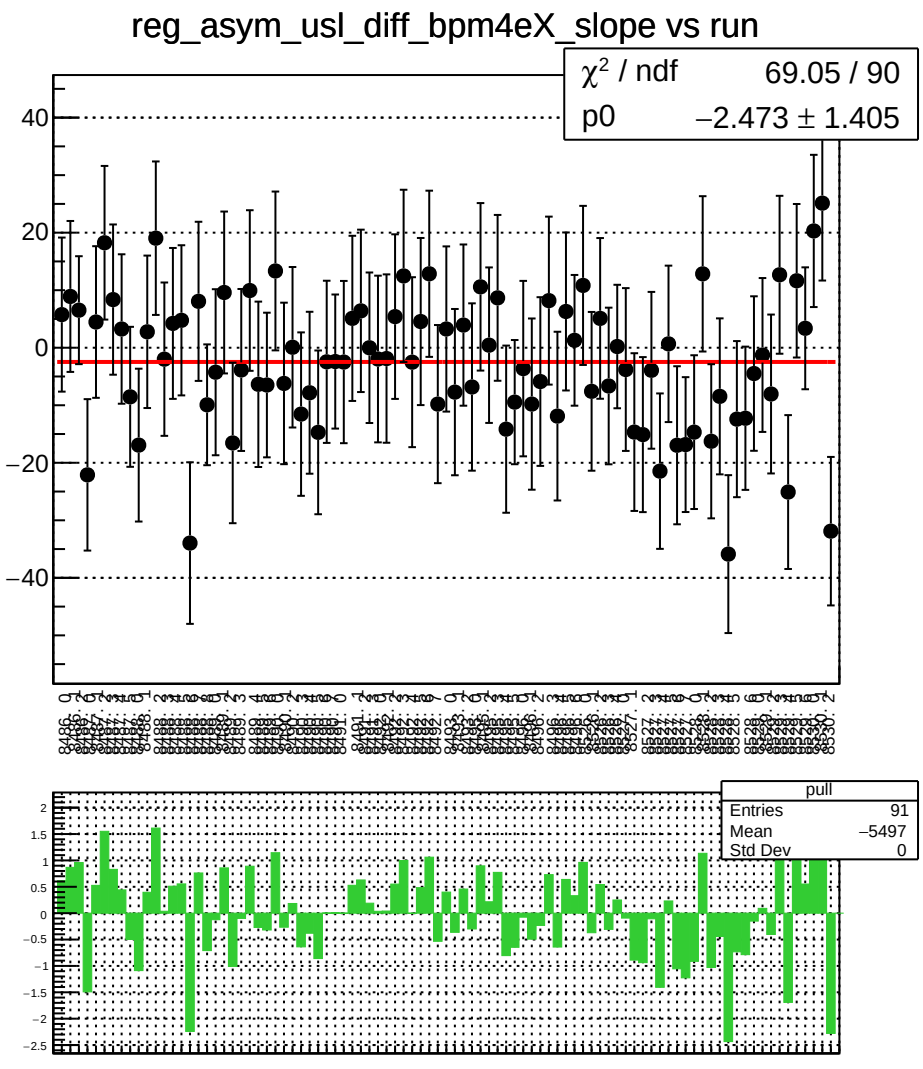

pull1D
Entries 91
Mean −0.002206
Std Dev 0.5091

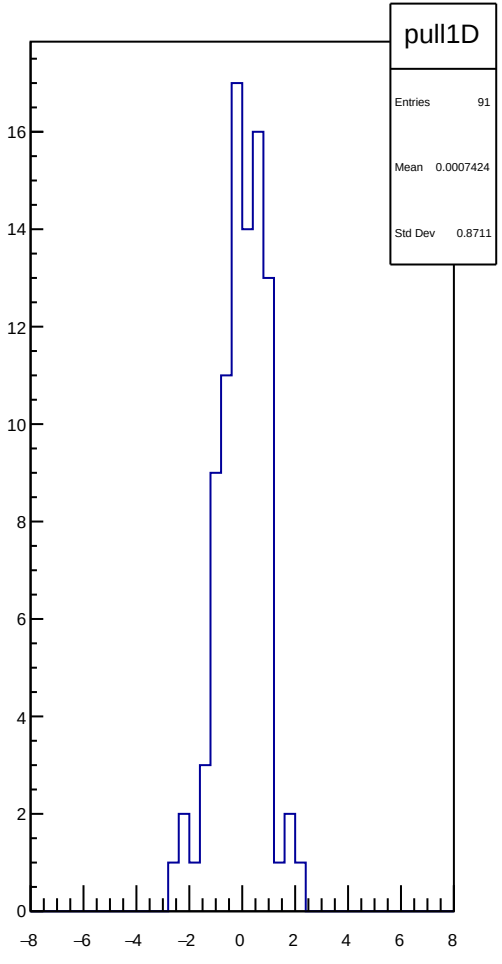

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 66.73 / 90
p0 −66.36 ± 1.294
pull
Entries 91
Mean 423.4
Std Dev 0

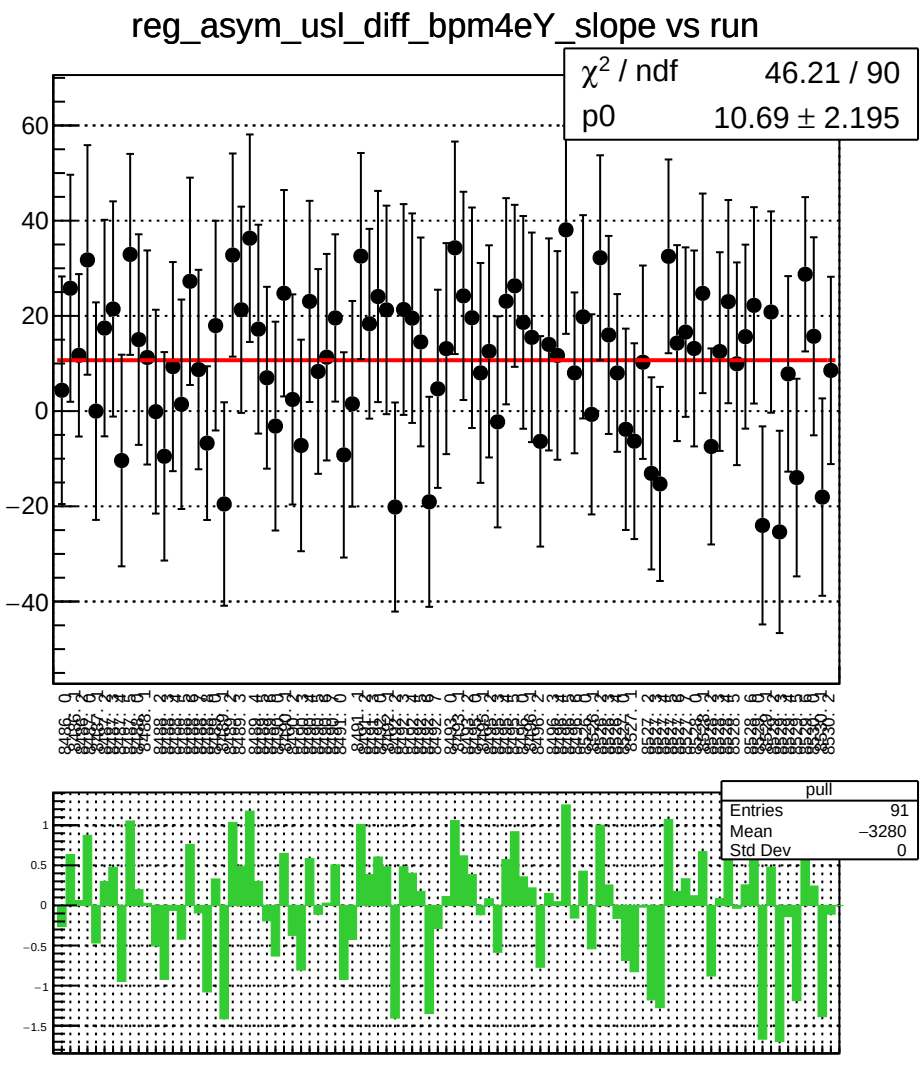

pull1D
Entries 91
Mean 0.004495
Std Dev 0.8563

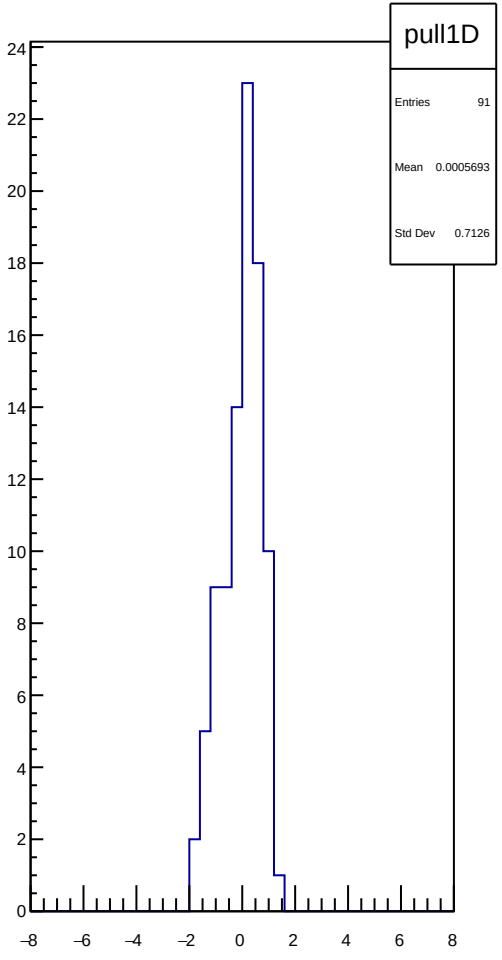

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 45.67 / 90
p0 7.603 ± 2.071
pull
Entries 91
Mean −1234
Std Dev 0

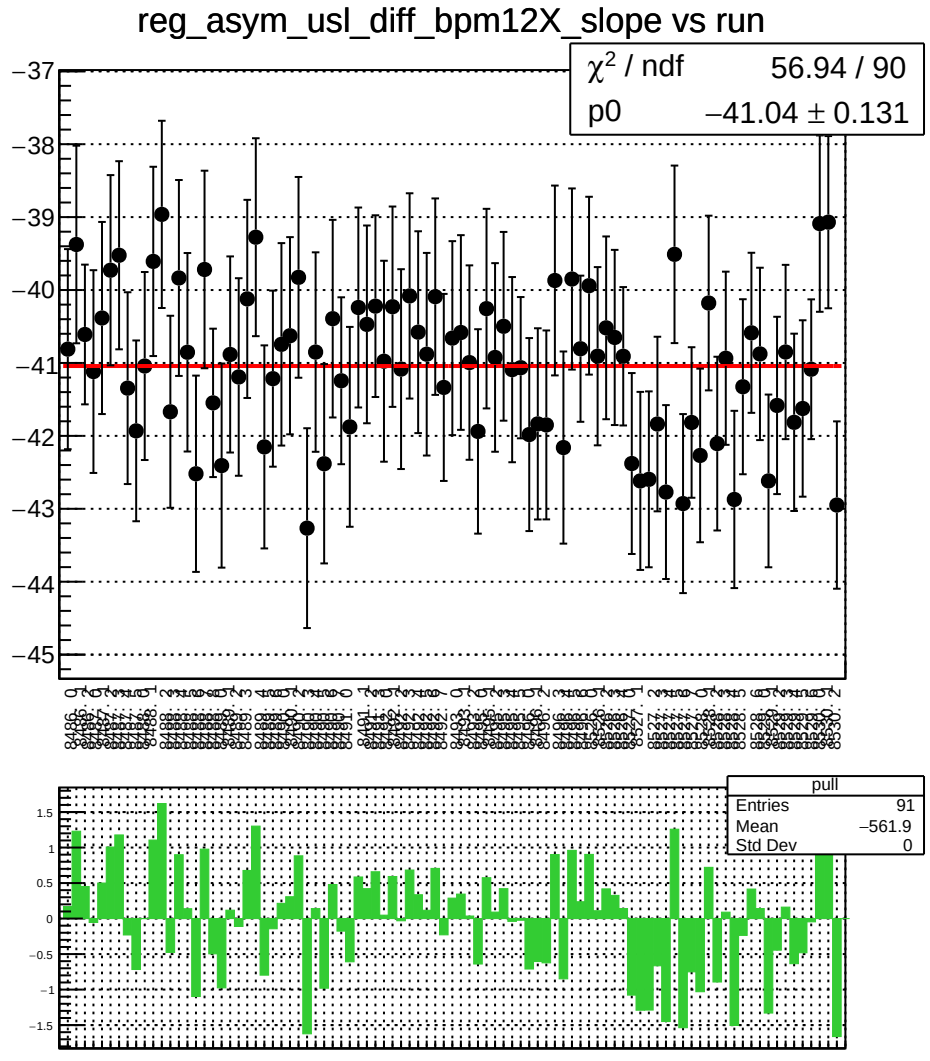

pull1D
Entries 91
Mean −0.001656
Std Dev 0.7084

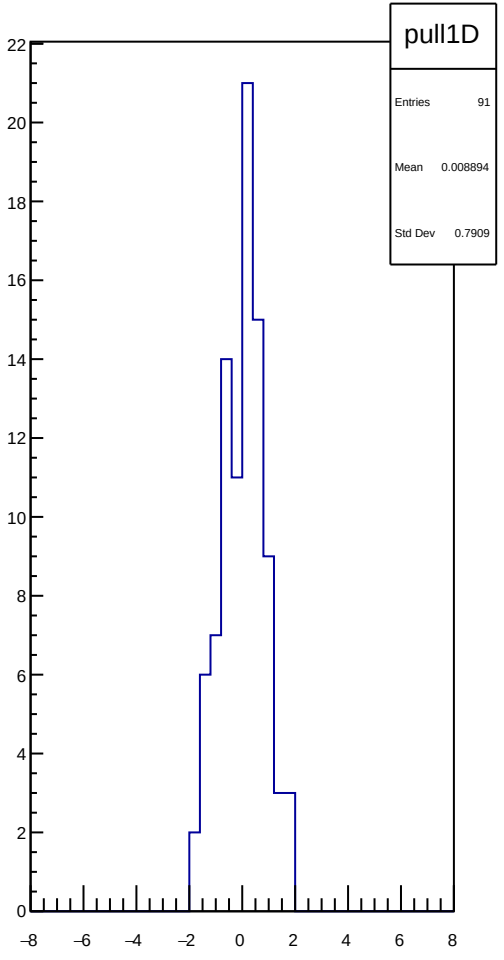

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 69.05 / 90
p0 −2.473 ± 1.405
pull
Entries 91
Mean −5497
Std Dev 0

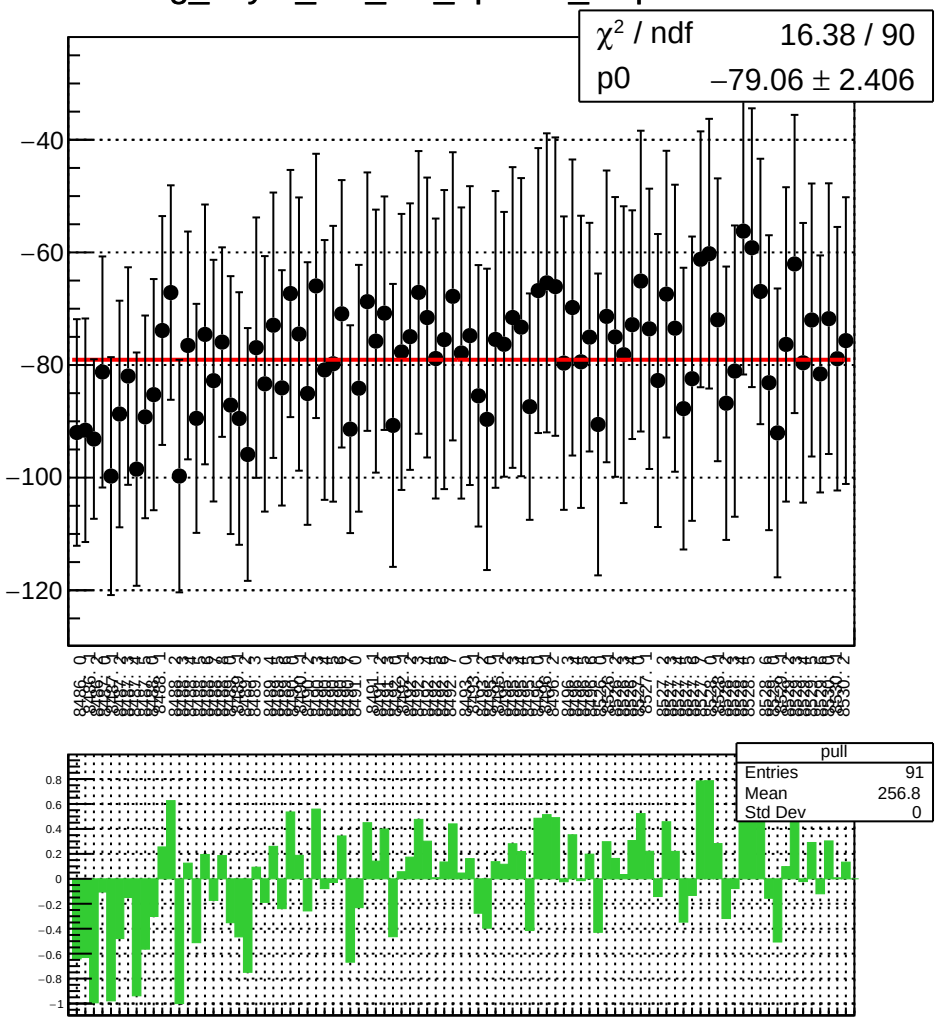

pull1D
Entries 91
Mean 0.0007424
Std Dev 0.8711

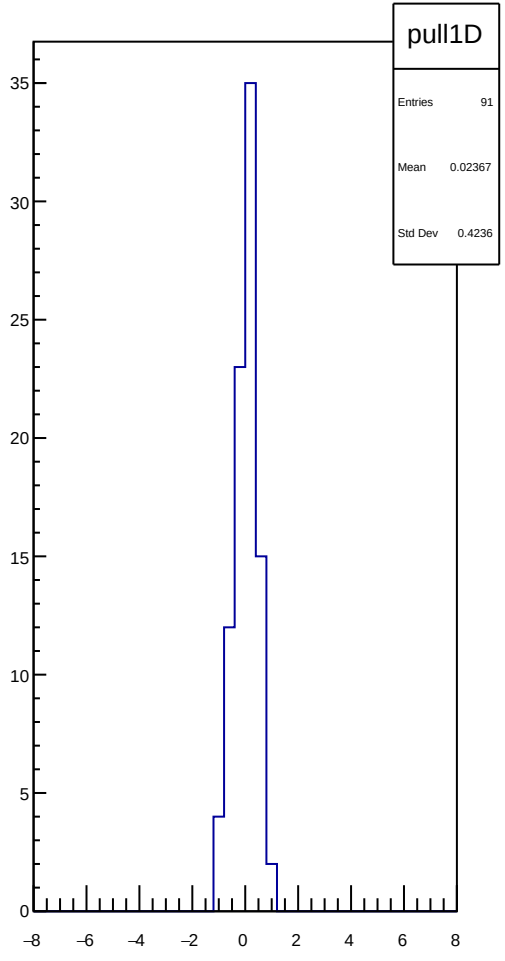

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 46.21 / 90
p0 10.69 ± 2.195
pull
Entries 91
Mean −3280
Std Dev 0

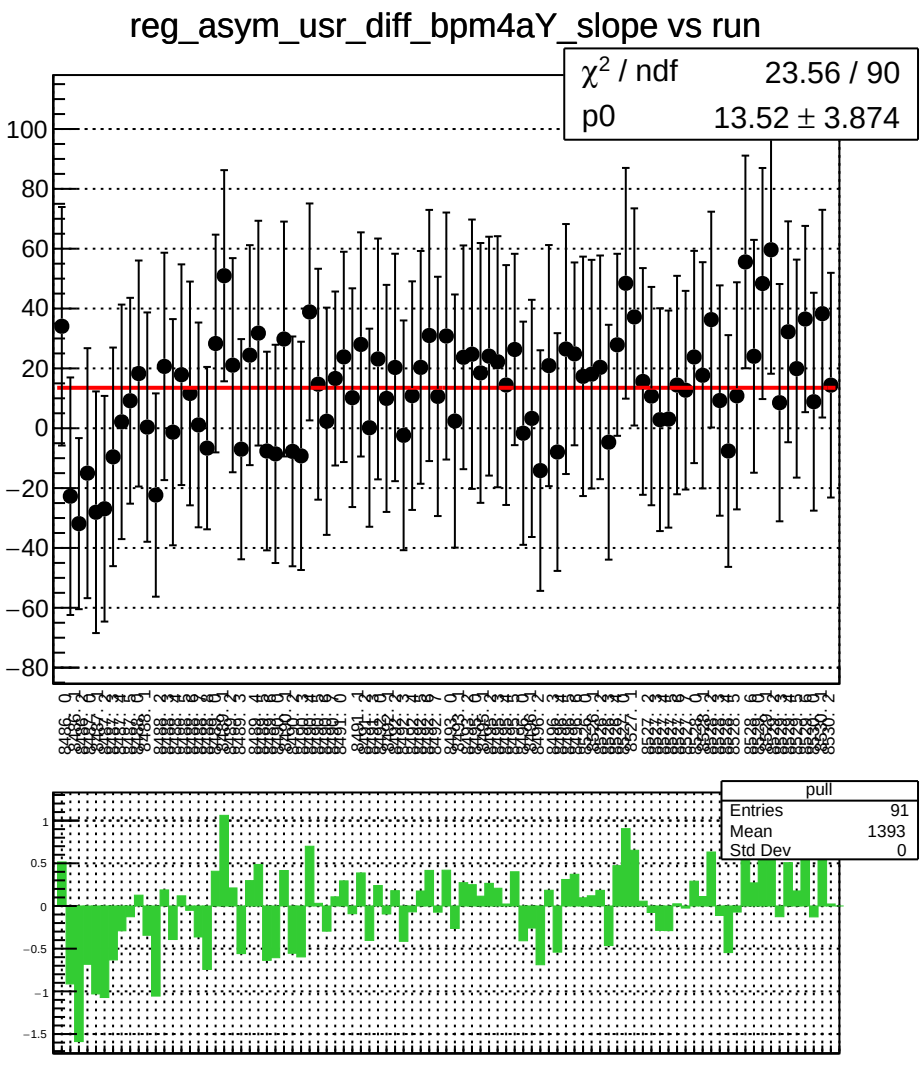

pull1D
Entries 91
Mean 0.0005693
Std Dev 0.7126

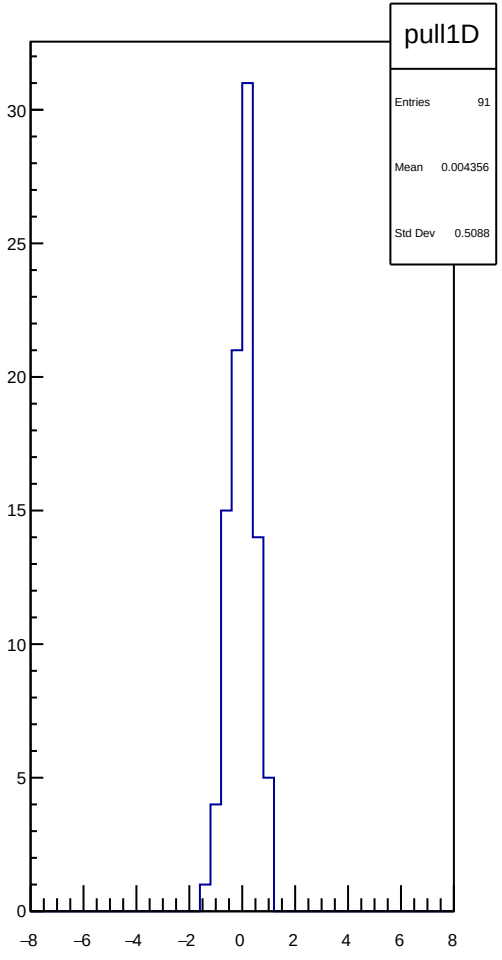

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 56.94 / 90
p0 −41.04 ± 0.131
pull
Entries 91
Mean −561.9
Std Dev 0

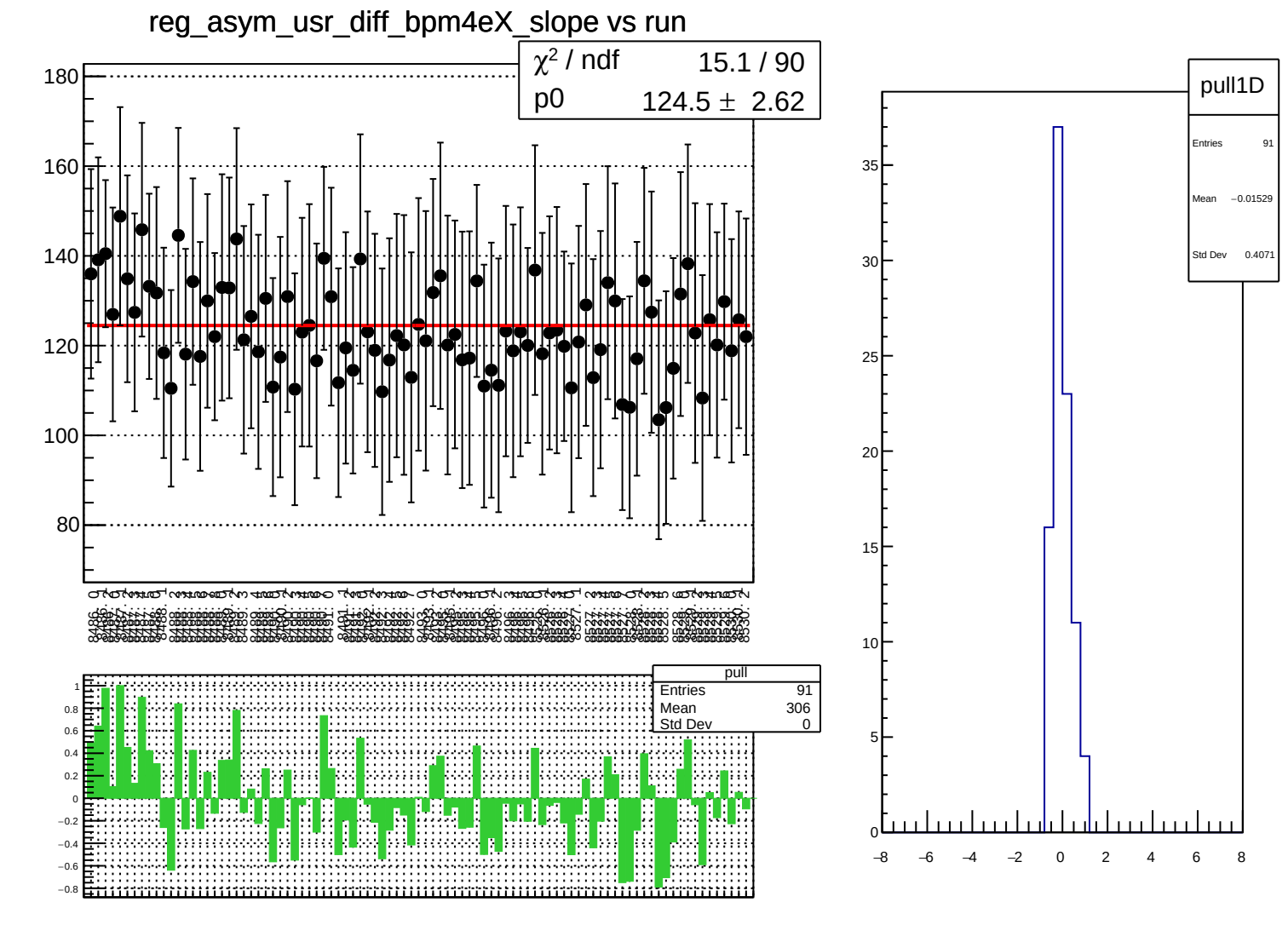

pull1D
Entries 91
Mean 0.008894
Std Dev 0.7909

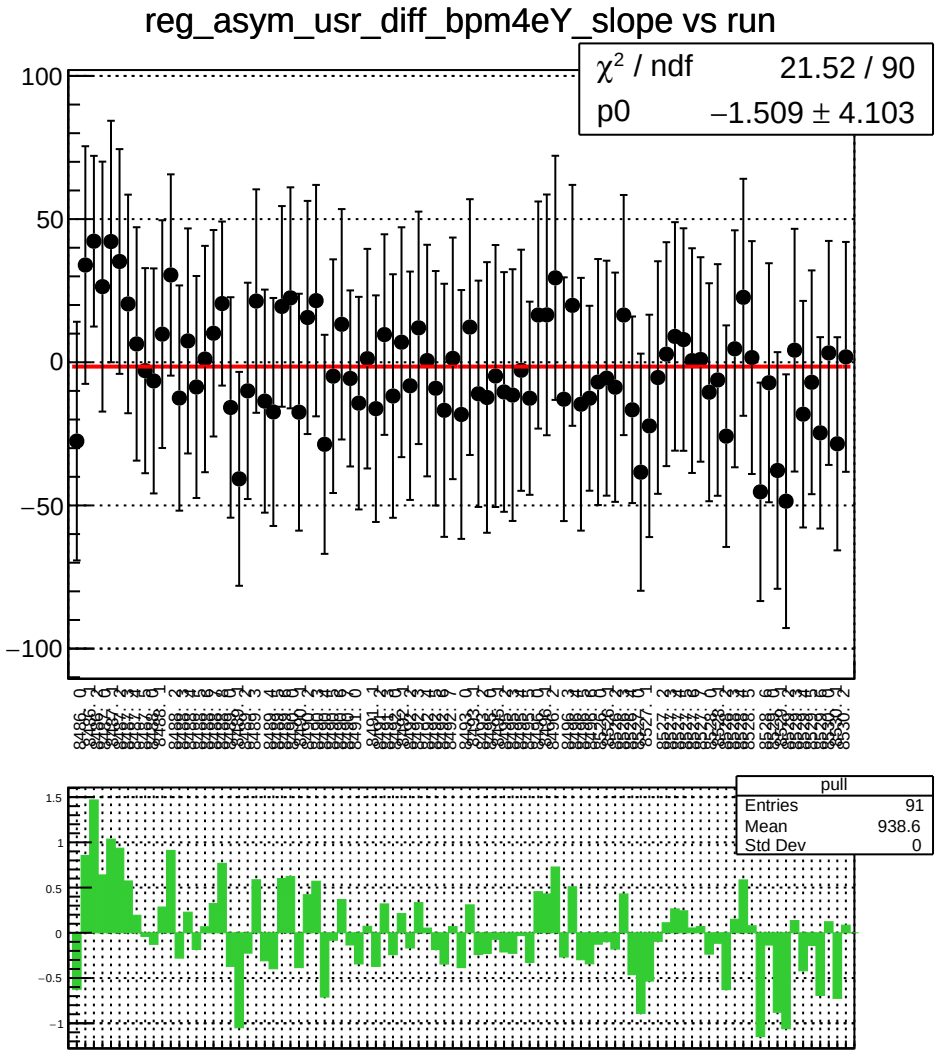

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 16.38 / 90
p0 −79.06 ± 2.406
−40
−60
−80
−100
−120
pull
Entries 91
Mean 256.8
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

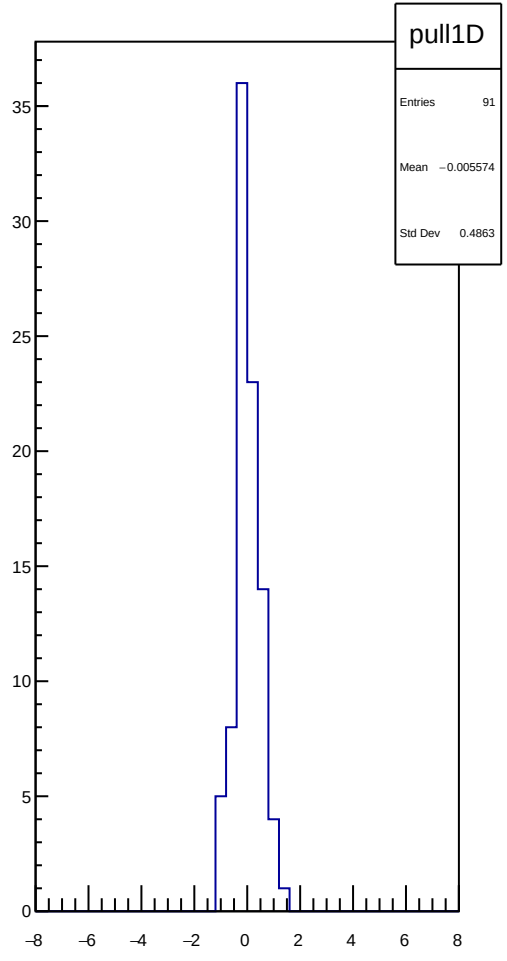

pull1D
Entries 91
Mean 0.02367
Std Dev 0.4236
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

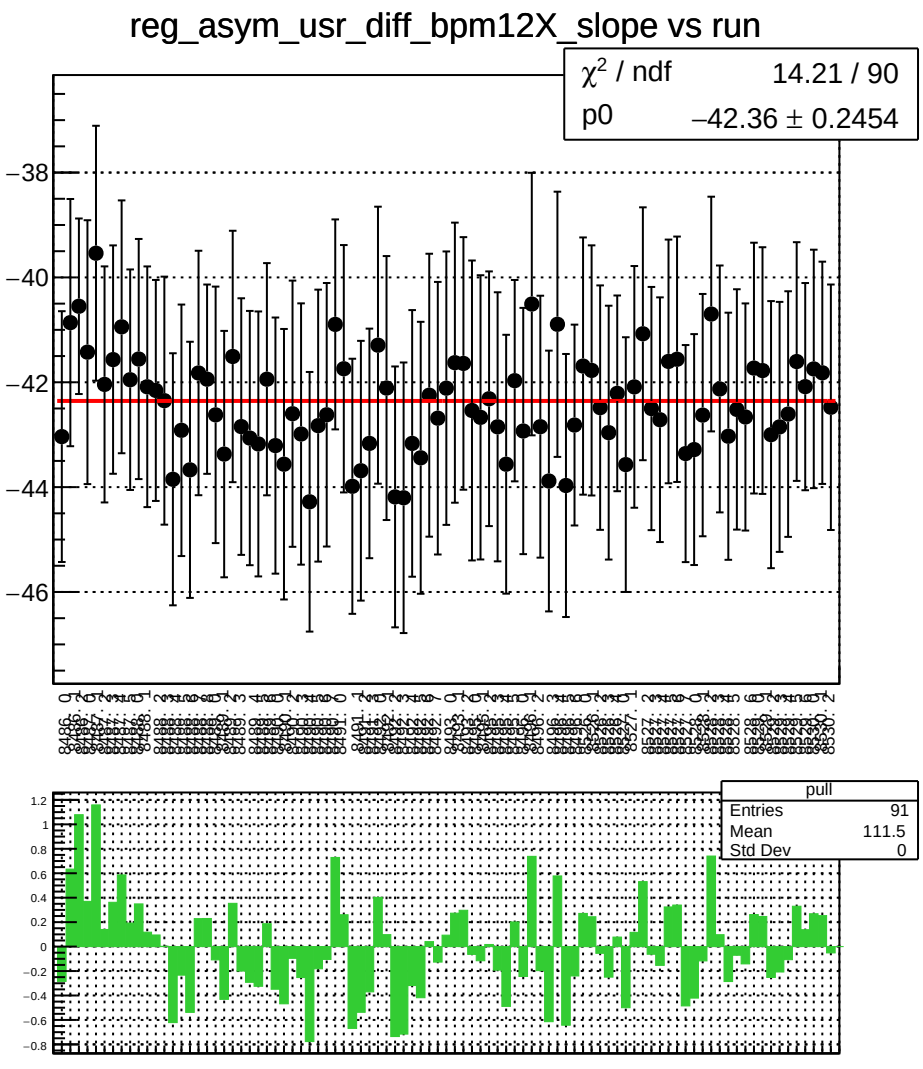

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 23.56 / 90
p0 13.52 ± 3.874
pull
Entries 91
Mean 1393
Std Dev 0

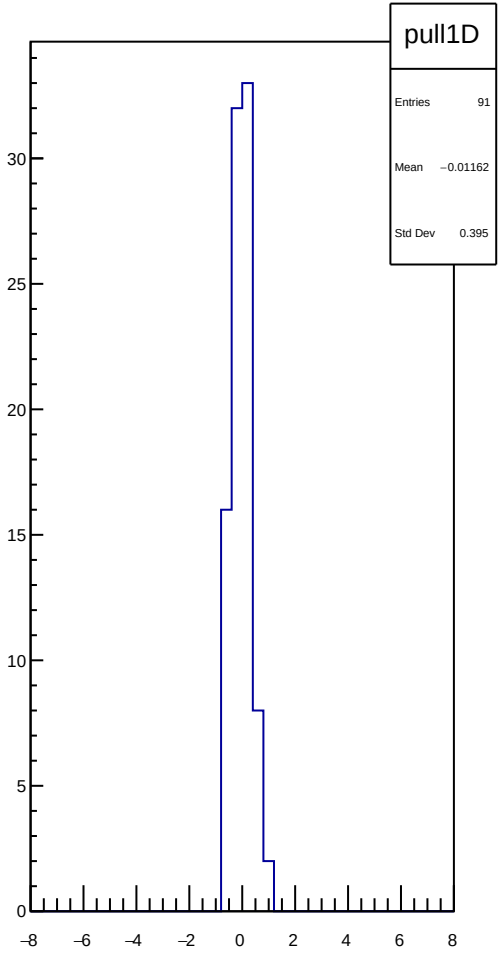

pull1D
Entries 91
Mean 0.004356
Std Dev 0.5088

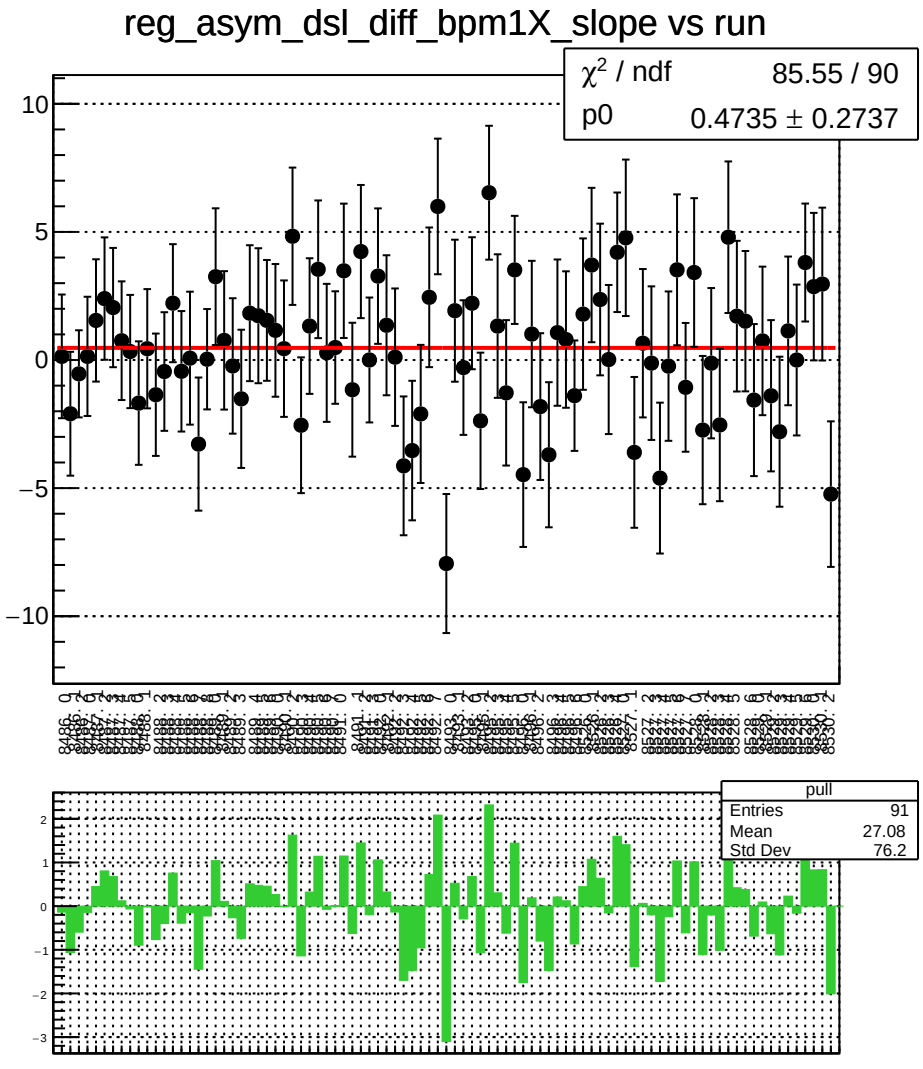

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 15.1 / 90
p0 124.5 ± 2.62
pull
Entries 91
Mean 306
Std Dev 0
pull1D
Entries 91
Mean −0.01529
Std Dev 0.4071

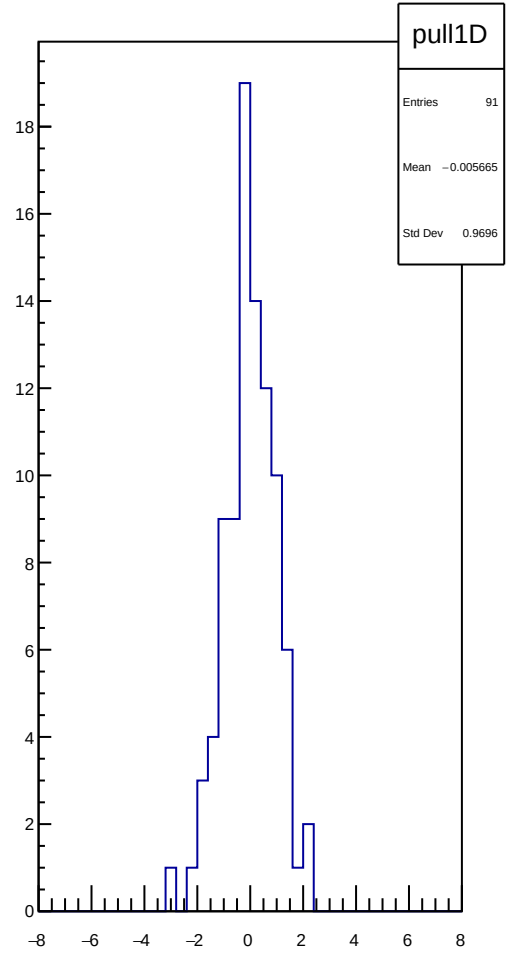

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 21.52 / 90
p0 −1.509 ± 4.103
pull
Entries 91
Mean 938.6
Std Dev 0

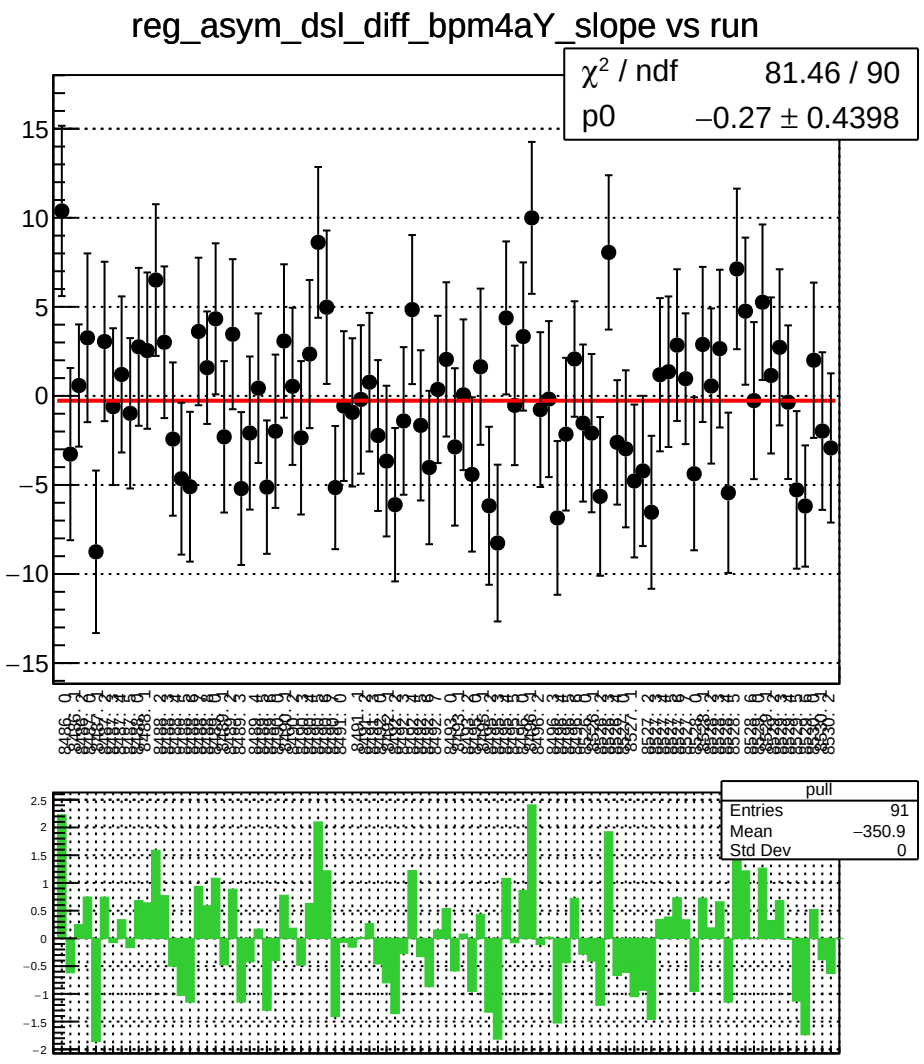

pull1D
Entries 91
Mean −0.005574
Std Dev 0.4863

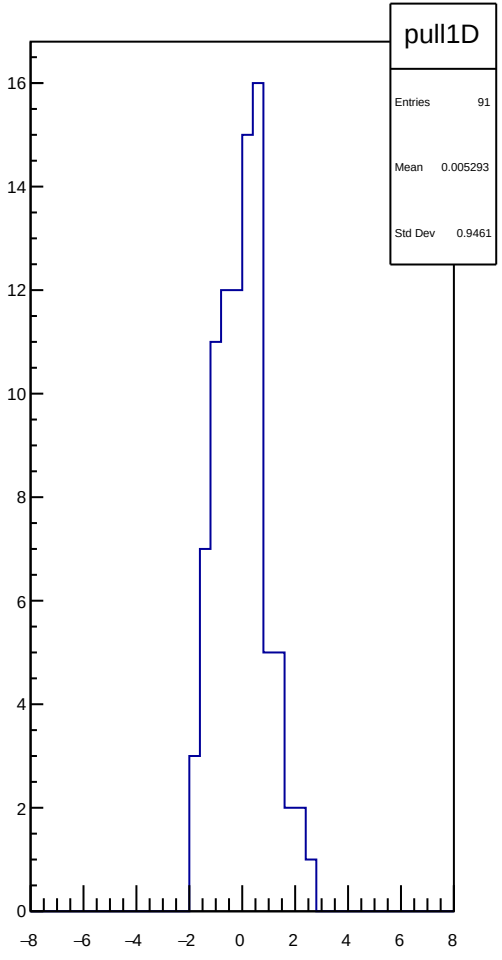

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 14.21 / 90
p0 −42.36 ± 0.2454
−38
−40
−42
−44
−46
pull
Entries 91
Mean 111.5
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

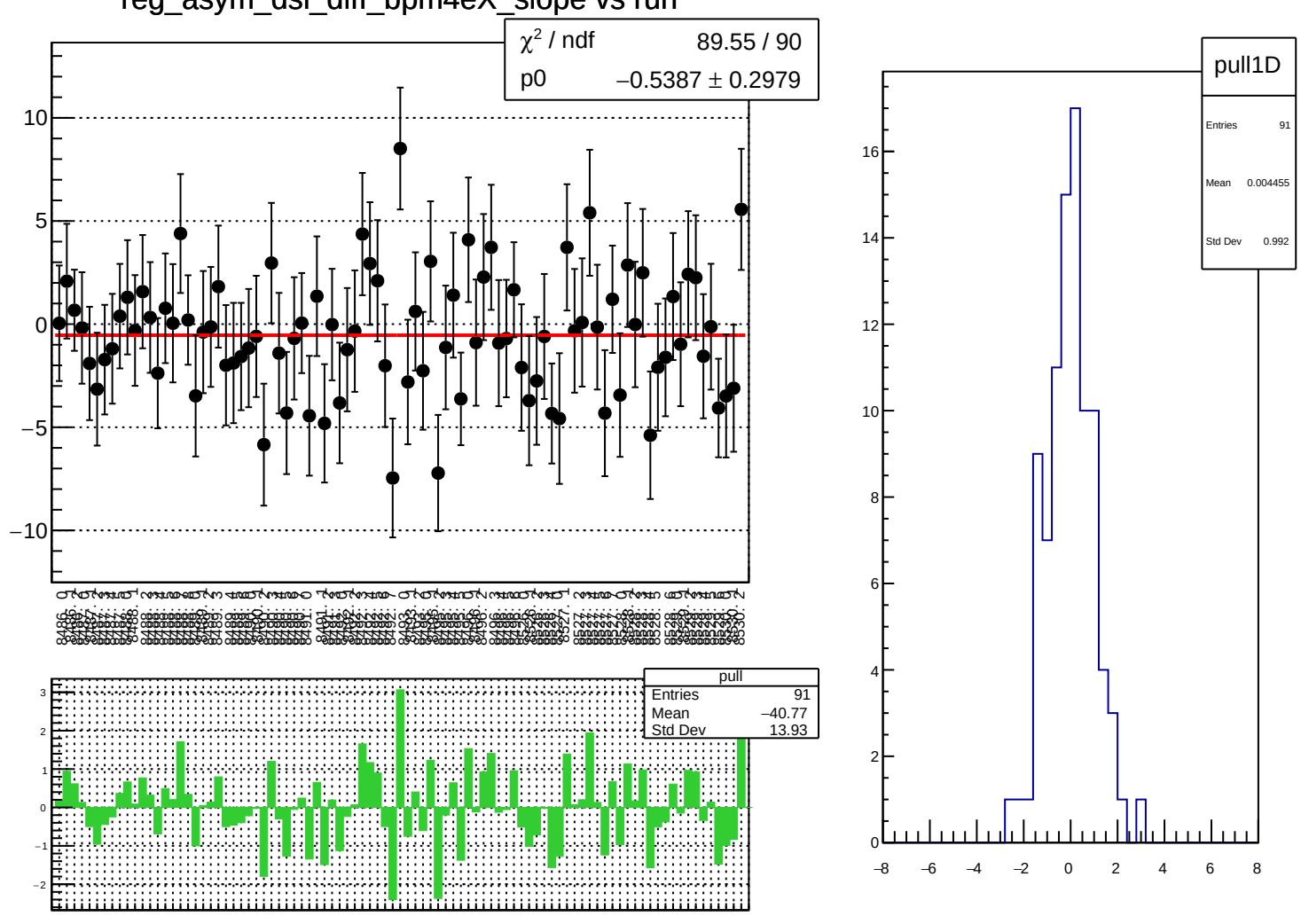

pull1D
Entries 91
Mean −0.01162
Std Dev 0.395
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

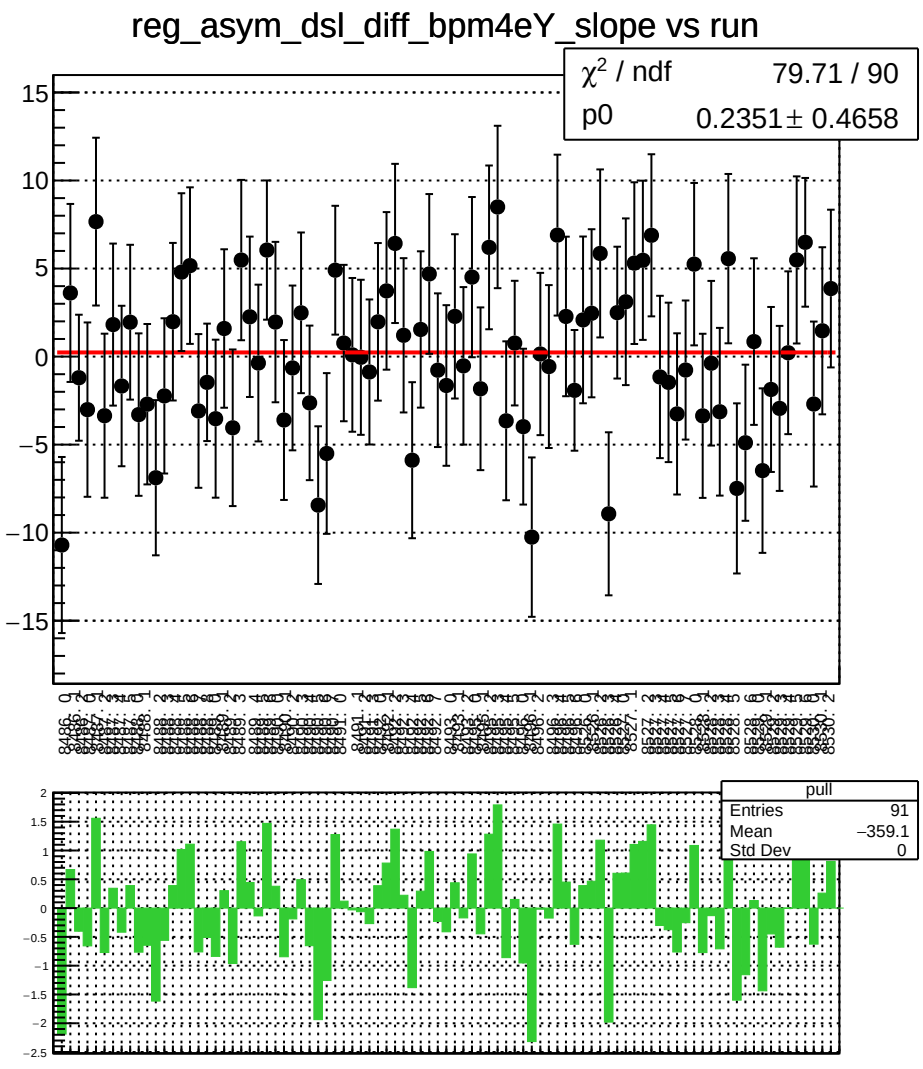

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 85.55 / 90
p0 0.4735 ± 0.2737
pull
Entries 91
Mean 27.08
Std Dev 76.2

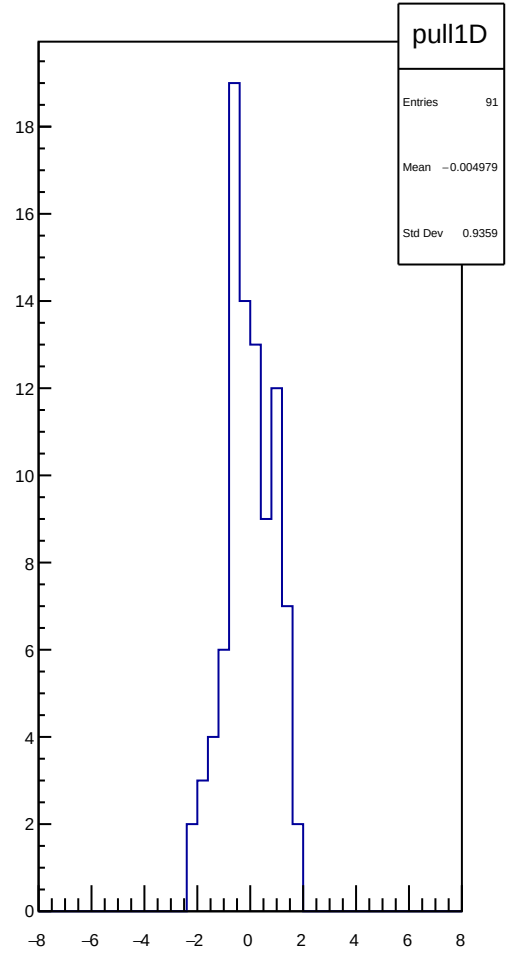

pull1D
Entries 91
Mean −0.005665
Std Dev 0.9696

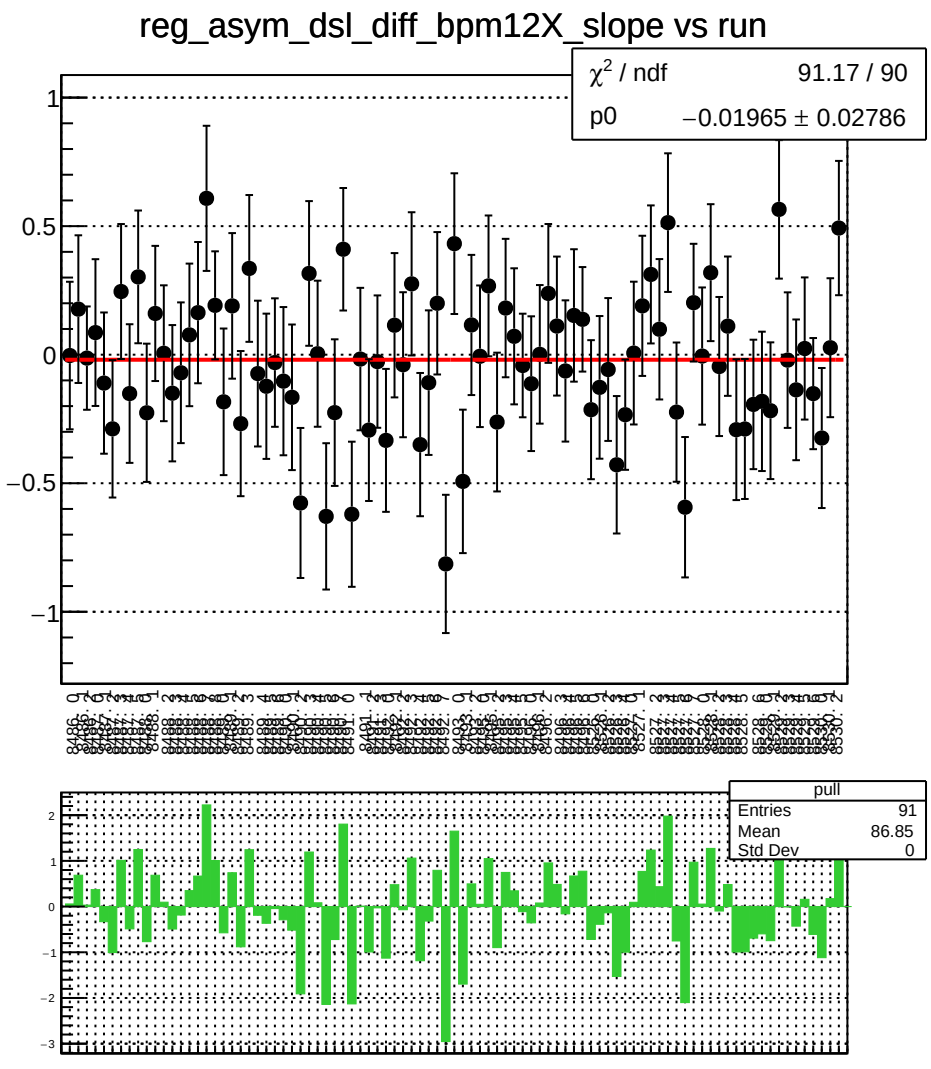

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 81.46 / 90
p0 −0.27 ± 0.4398
pull
Entries 91
Mean −350.9
Std Dev 0

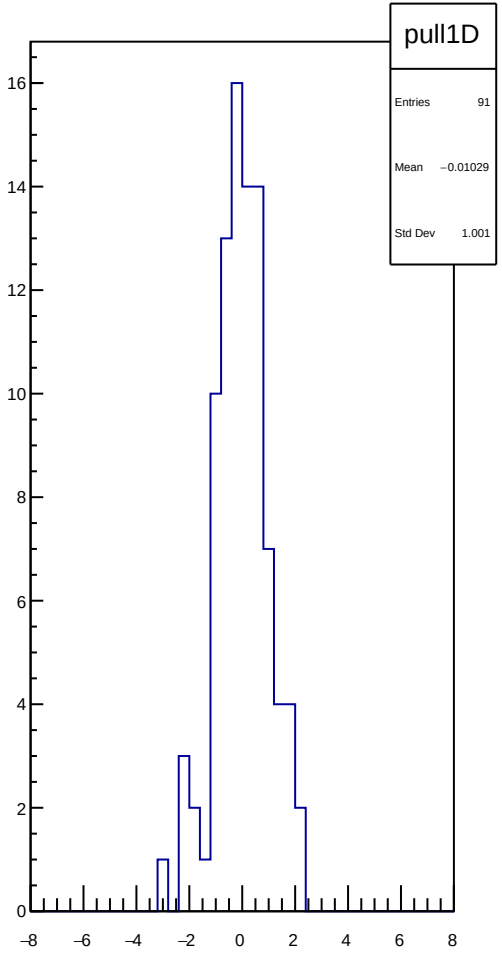

pull1D
Entries 91
Mean 0.005293
Std Dev 0.9461

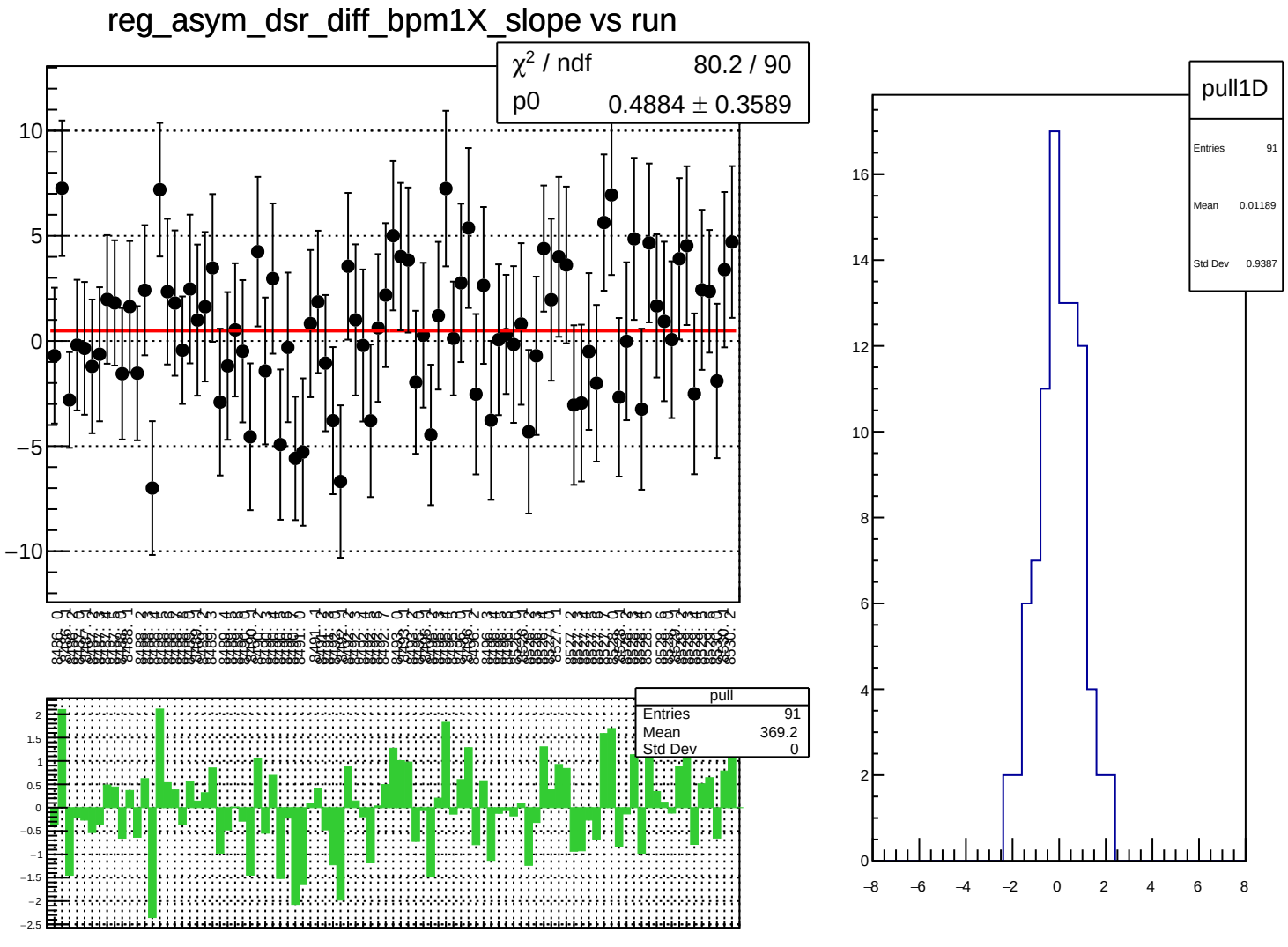

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 89.55 / 90
p0 −0.5387 ± 0.2979
pull
Entries 91
Mean −40.77
Std Dev 13.93
pull1D
Entries 91
Mean 0.004455
Std Dev 0.992

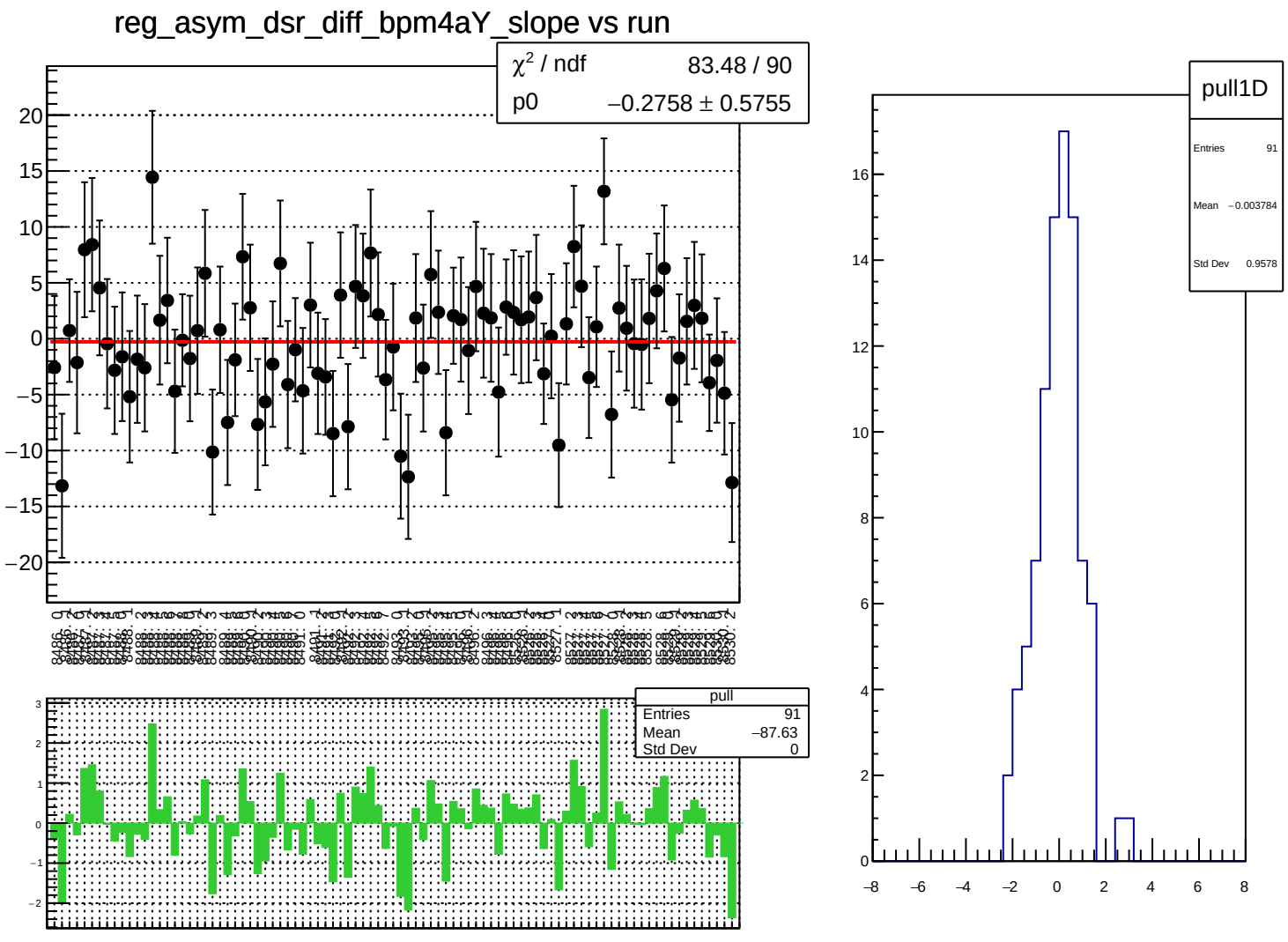

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 79.71 / 90
p0 0.2351 ± 0.4658
pull
Entries 91
Mean −359.1
Std Dev 0

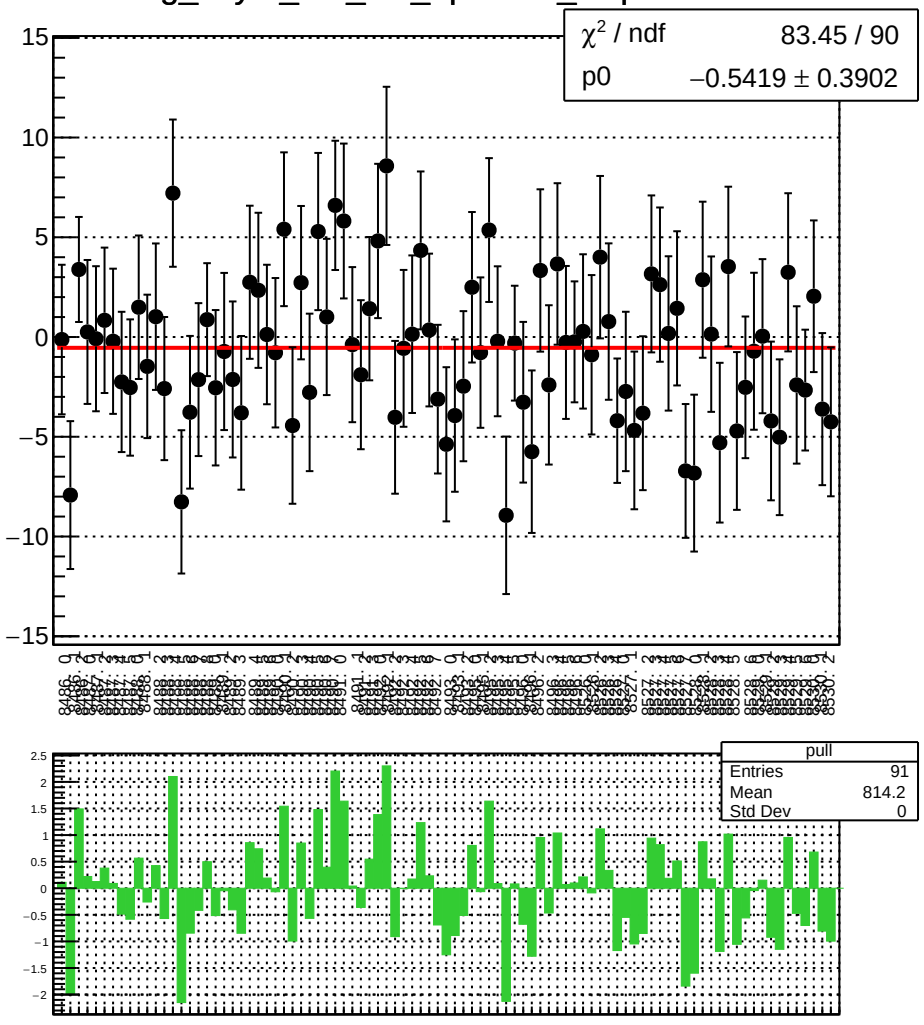

pull1D
Entries 91
Mean −0.004979
Std Dev 0.9359

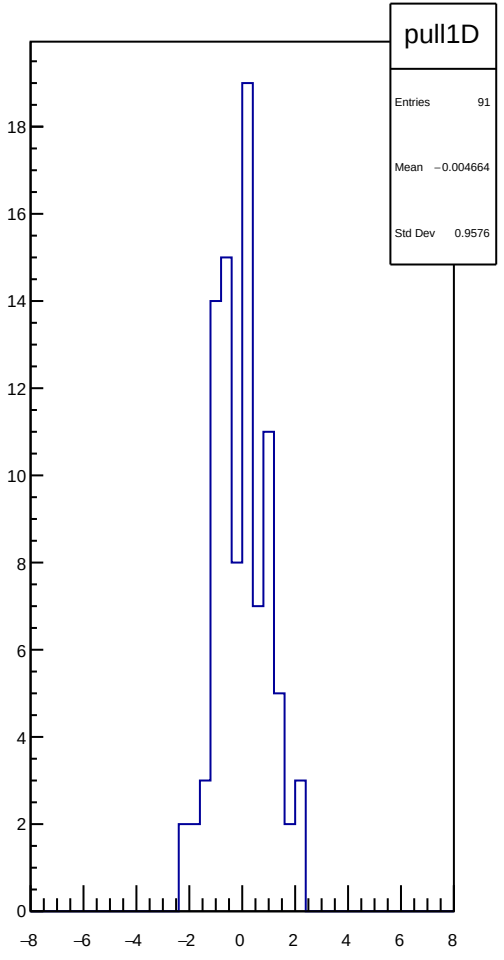

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 91.17 / 90
p0 −0.01965 ± 0.02786
pull
Entries 91
Mean 86.85
Std Dev 0

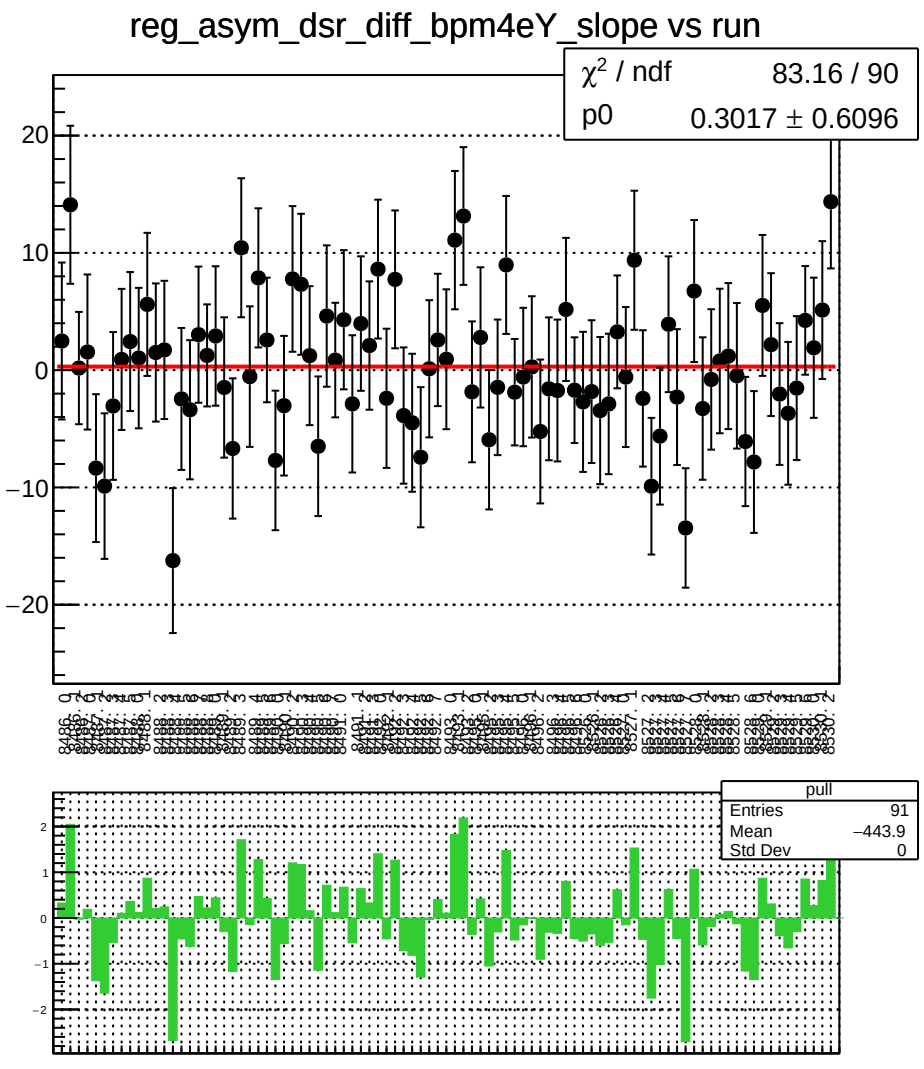

pull1D
Entries 91
Mean −0.01029
Std Dev 1.001

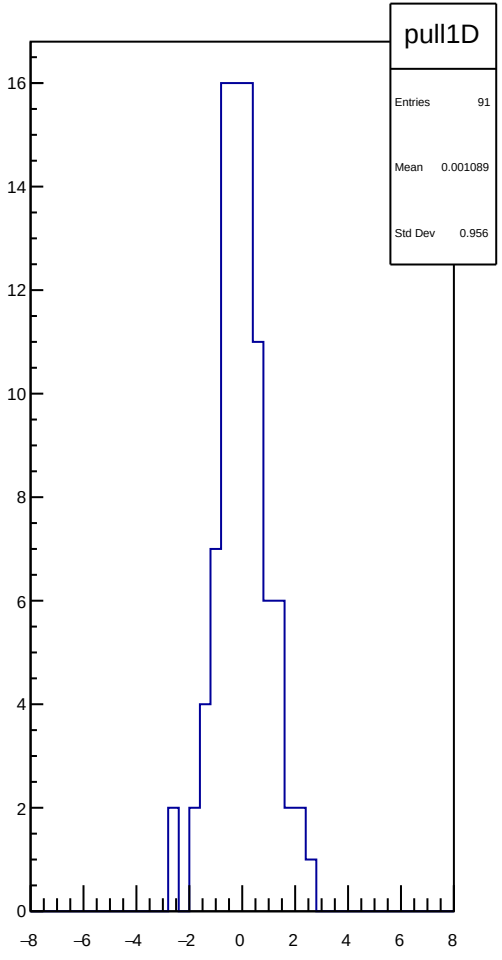

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 80.2 / 90
p0 0.4884 ± 0.3589
pull
Entries 91
Mean 369.2
Std Dev 0
pull1D
Entries 91
Mean 0.01189
Std Dev 0.9387

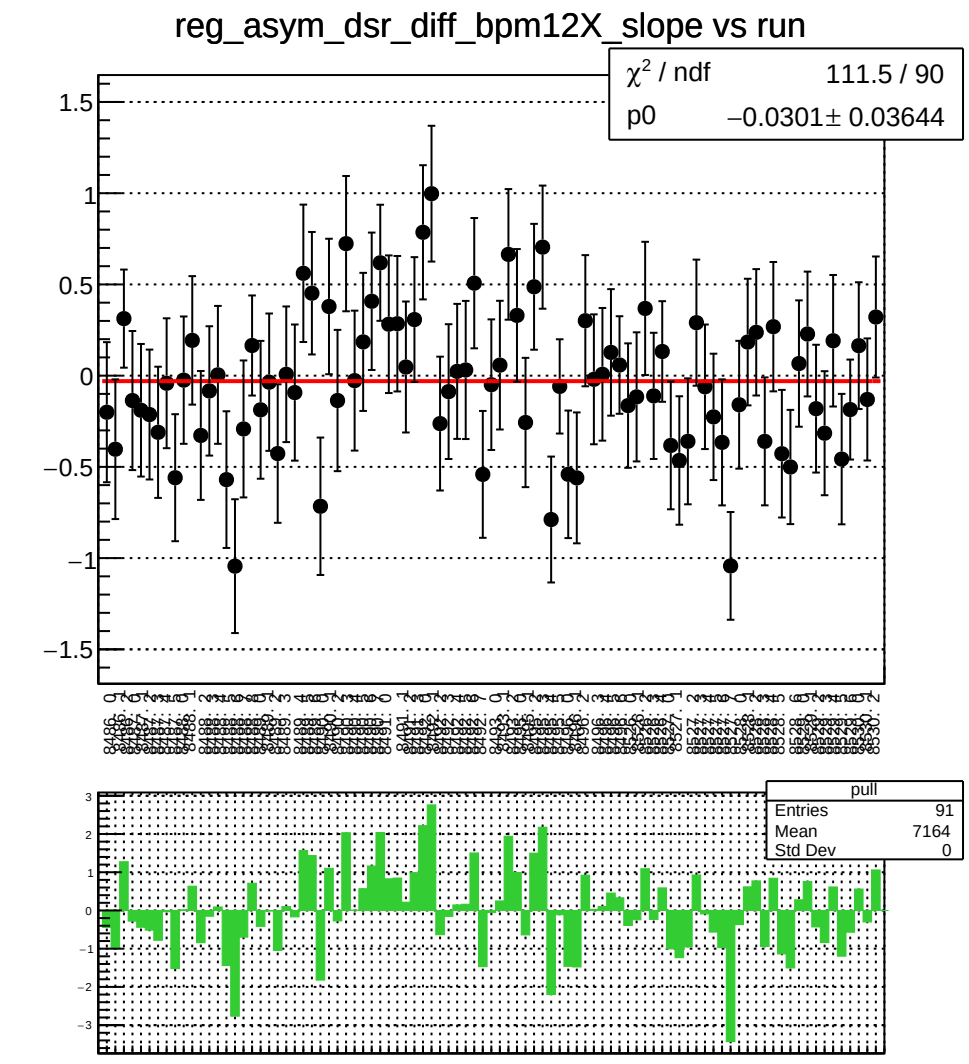

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 83.48 / 90
p0 −0.2758 ± 0.5755
pull
Entries 91
Mean −87.63
Std Dev 0
pull1D
Entries 91
Mean −0.003784
Std Dev 0.9578

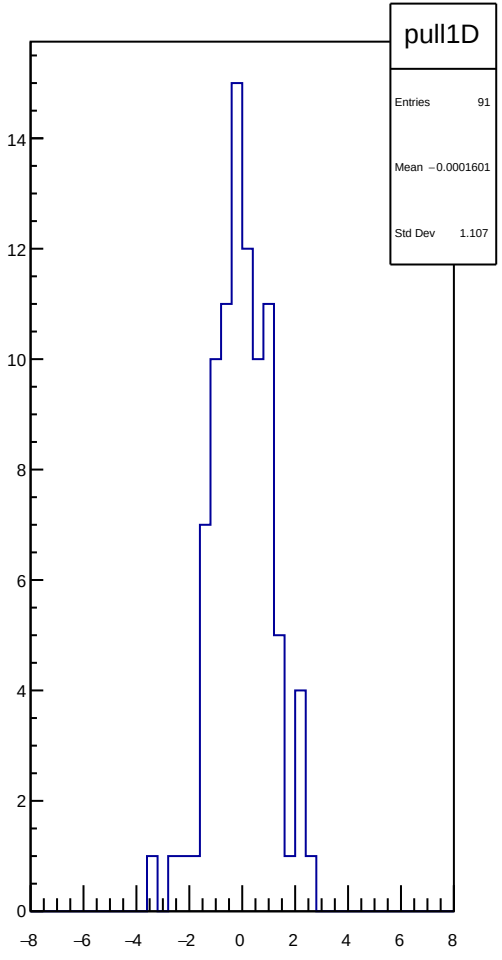

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 83.45 / 90
p0 −0.5419 ± 0.3902
pull
Entries 91
Mean 814.2
Std Dev 0

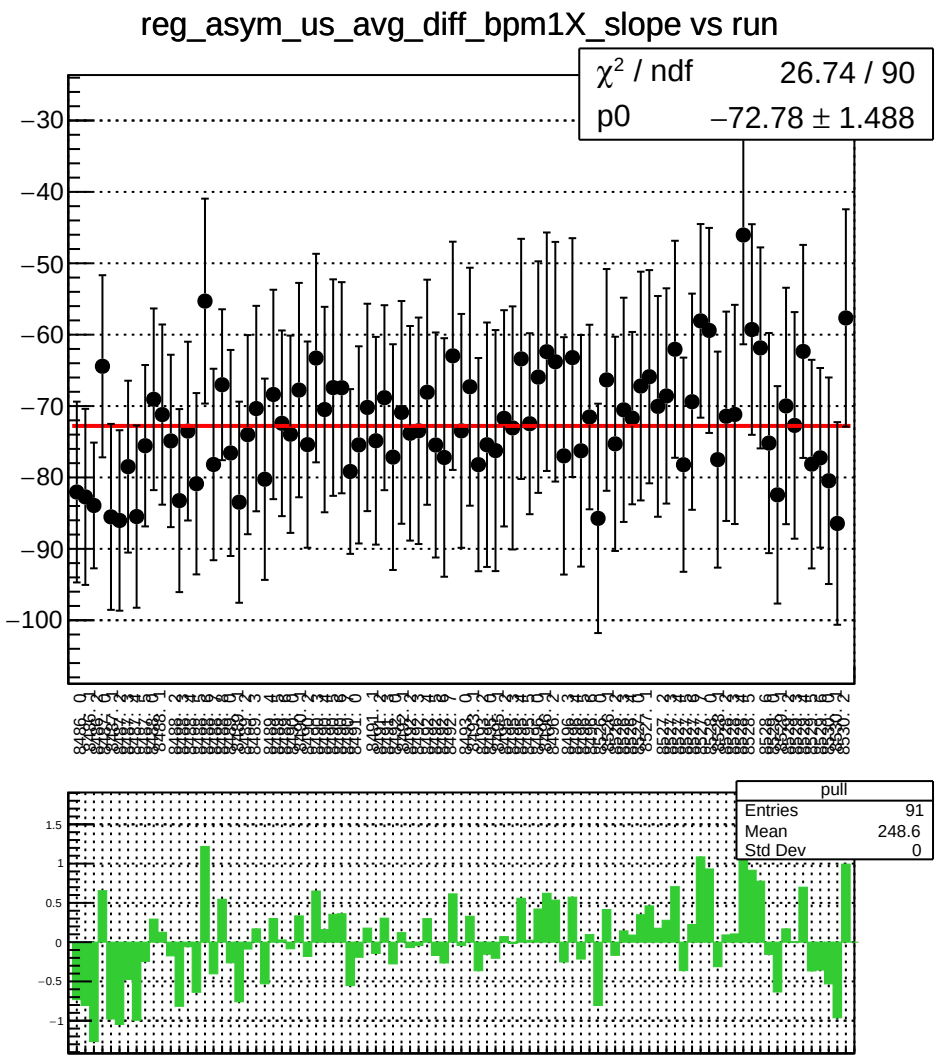

pull1D
Entries 91
Mean −0.004664
Std Dev 0.9576

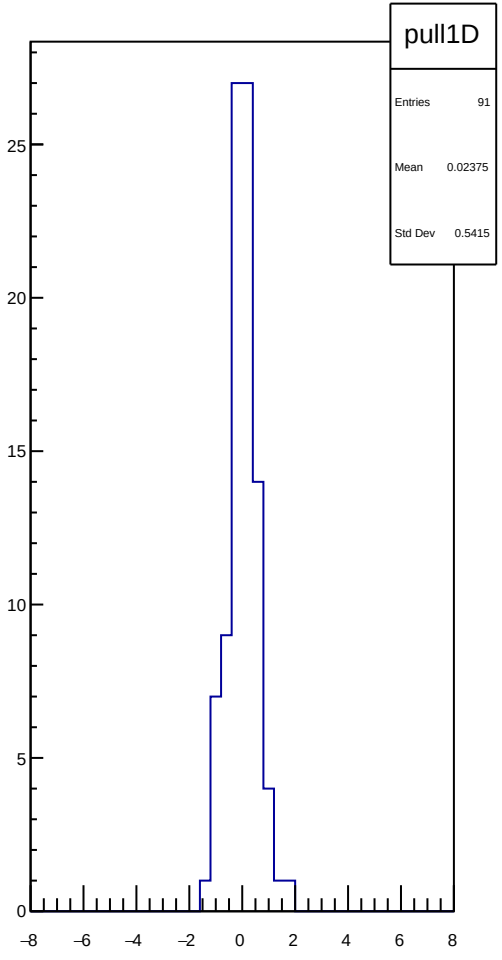

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 83.16 / 90
p0 0.3017 ± 0.6096
pull
Entries 91
Mean −443.9
Std Dev 0

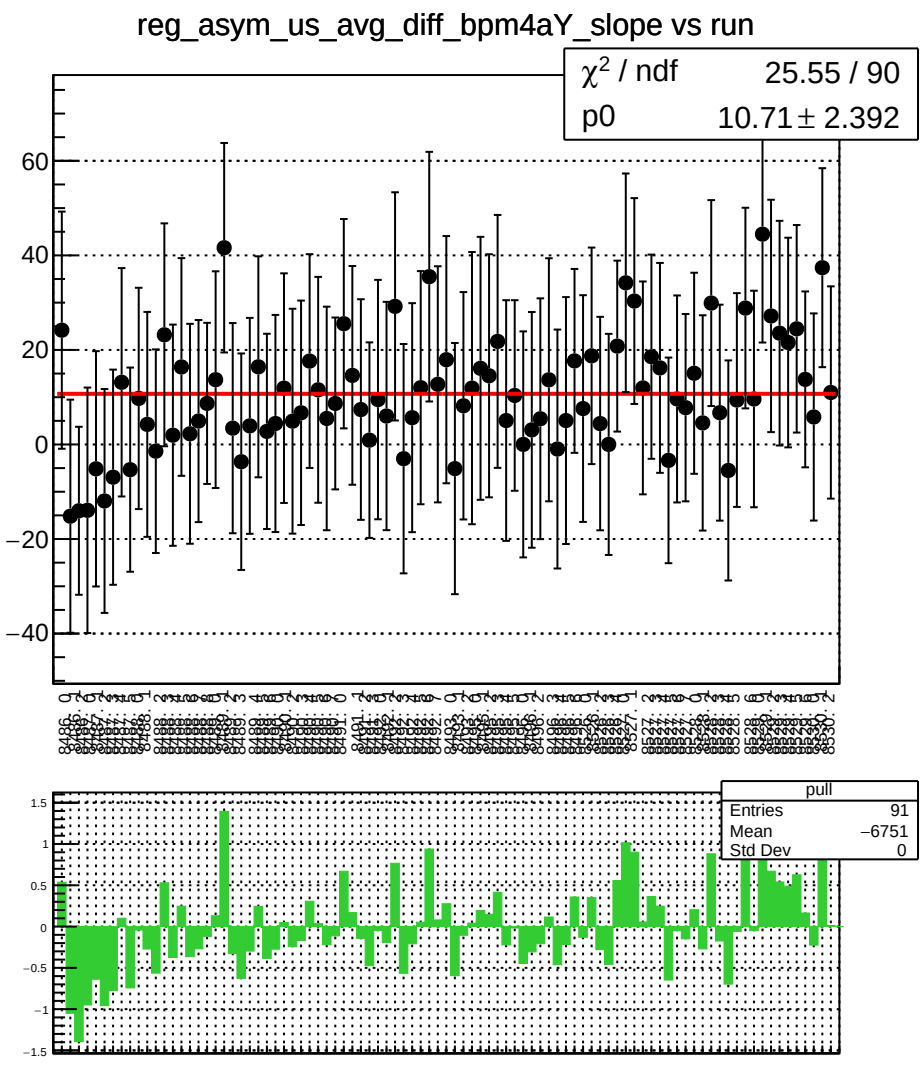

pull1D
Entries 91
Mean 0.001089
Std Dev 0.956

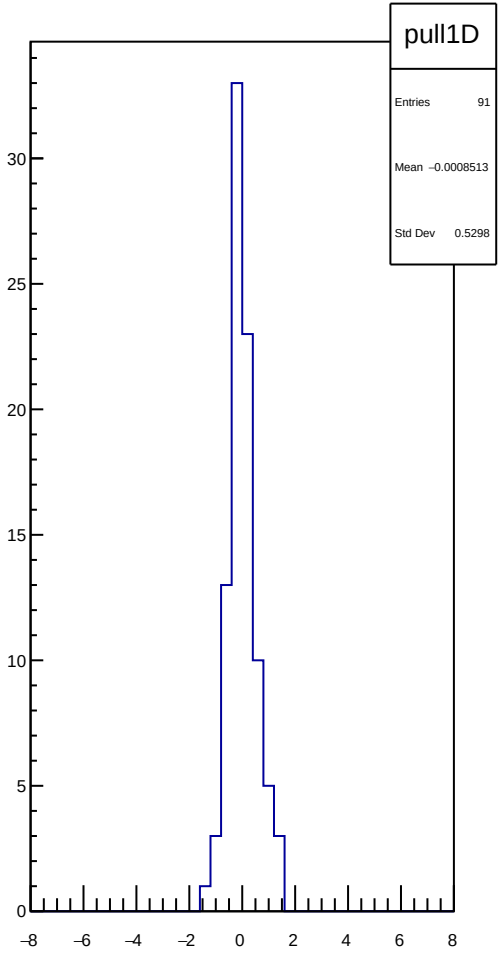

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 111.5 / 90
p0 −0.0301± 0.03644
pull
Entries 91
Mean 7164
Std Dev 0

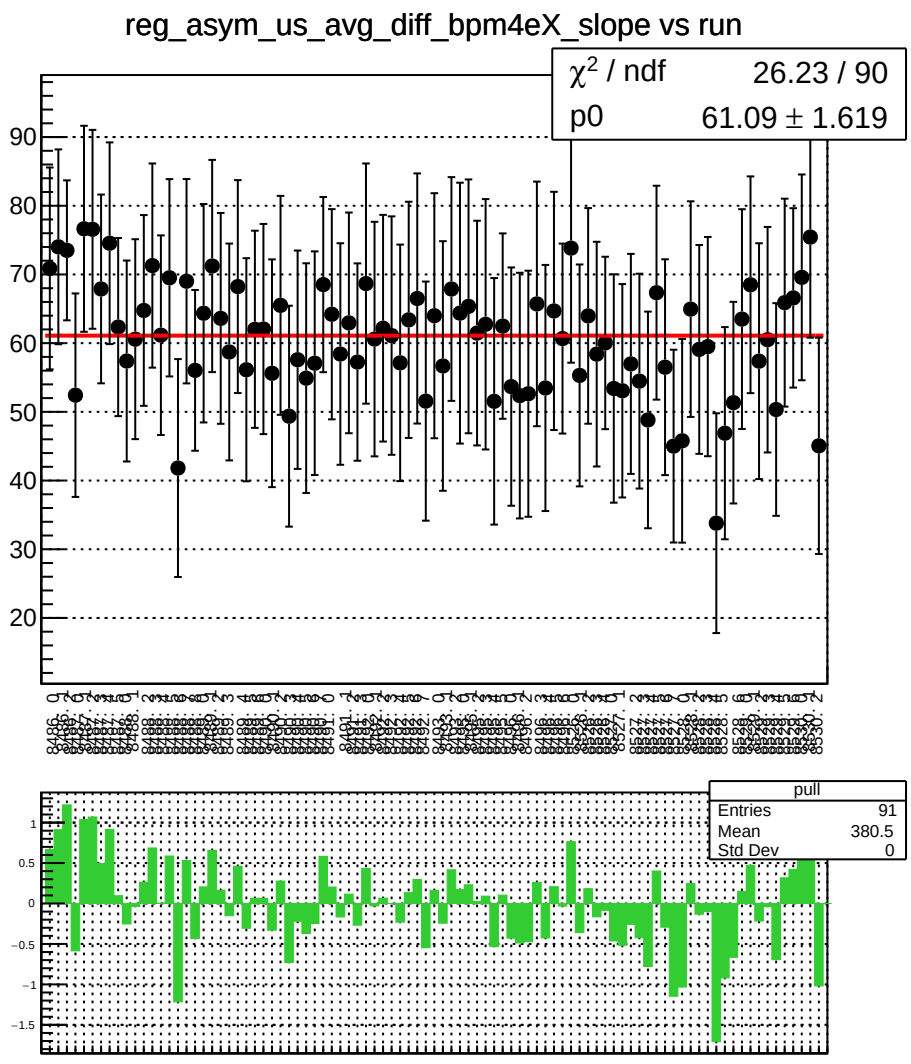

pull1D
Entries 91
Mean −0.0001601
Std Dev 1.107

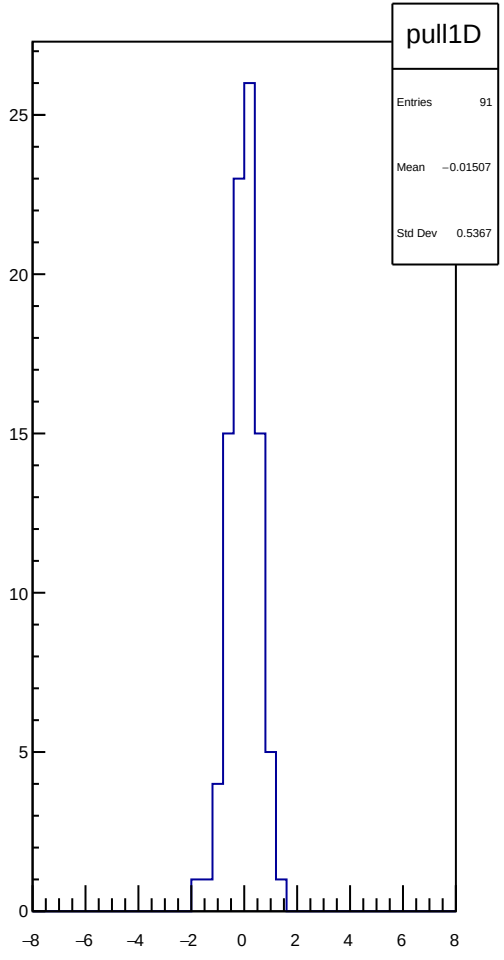

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 26.74 / 90
p0 −72.78 ± 1.488
pull
Entries 91
Mean 248.6
Std Dev 0

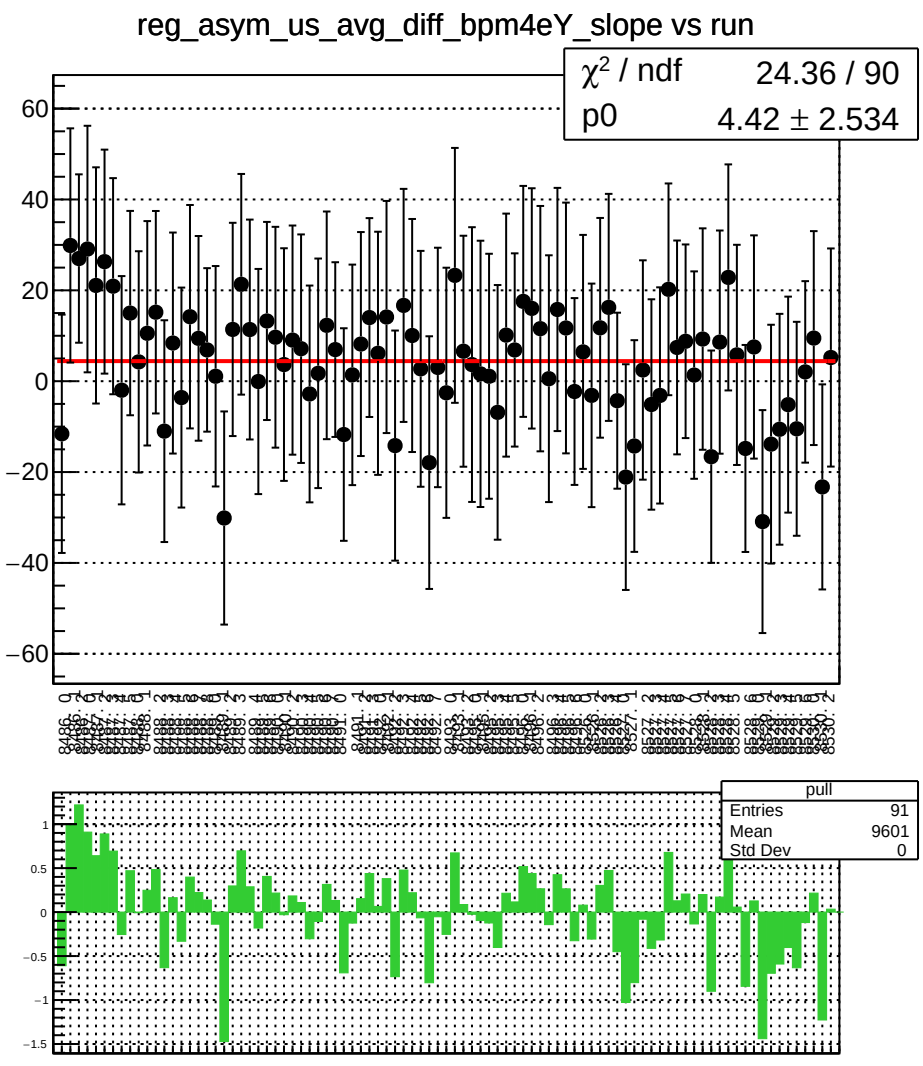

pull1D
Entries 91
Mean 0.02375
Std Dev 0.5415

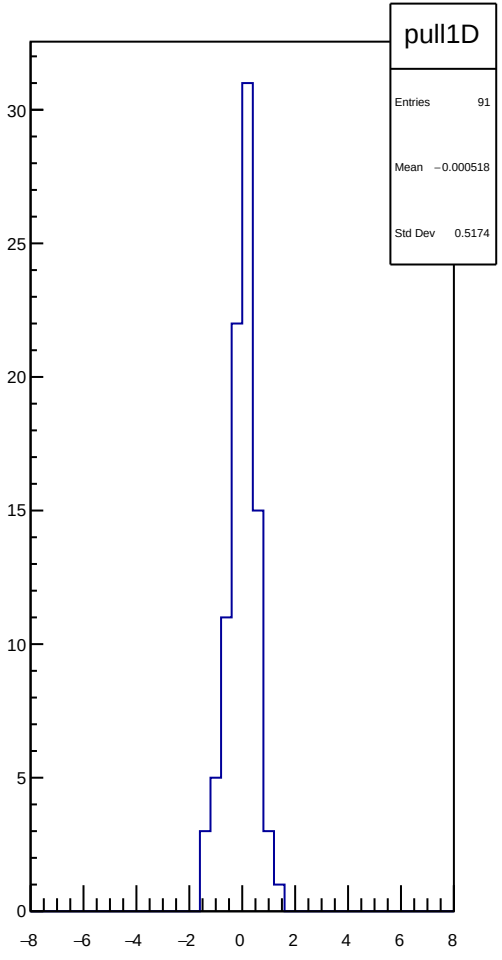

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 25.55 / 90
p0 10.71 ± 2.392
pull
Entries 91
Mean −6751
Std Dev 0

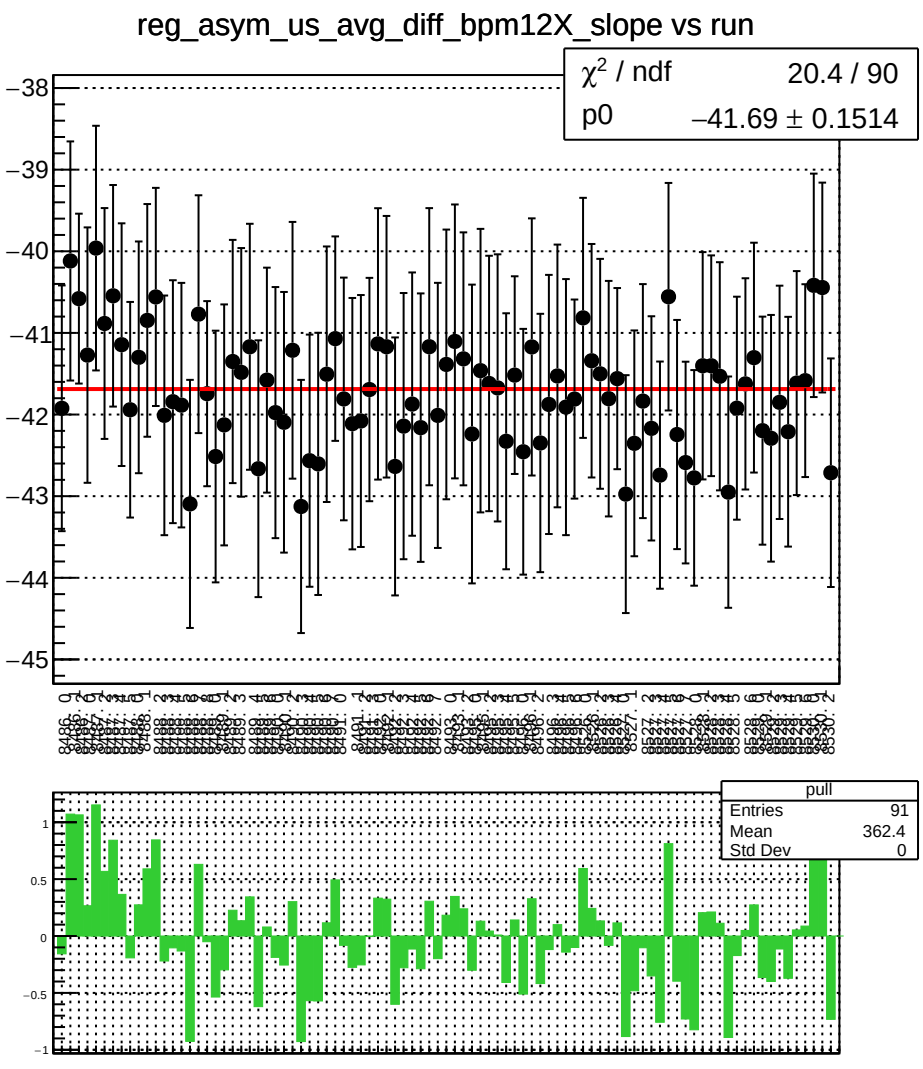

pull1D
Entries 91
Mean −0.0008513
Std Dev 0.5298

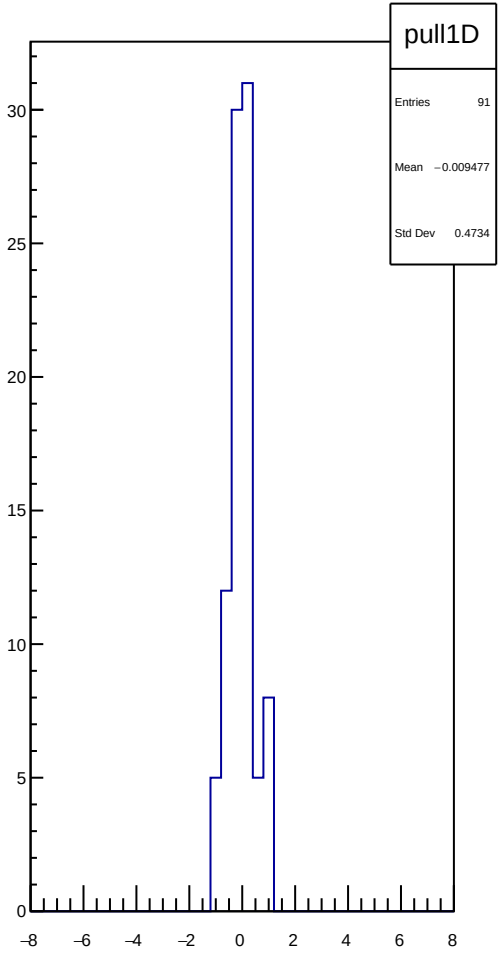

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 26.23 / 90
p0 61.09 ± 1.619
pull
Entries 91
Mean 380.5
Std Dev 0

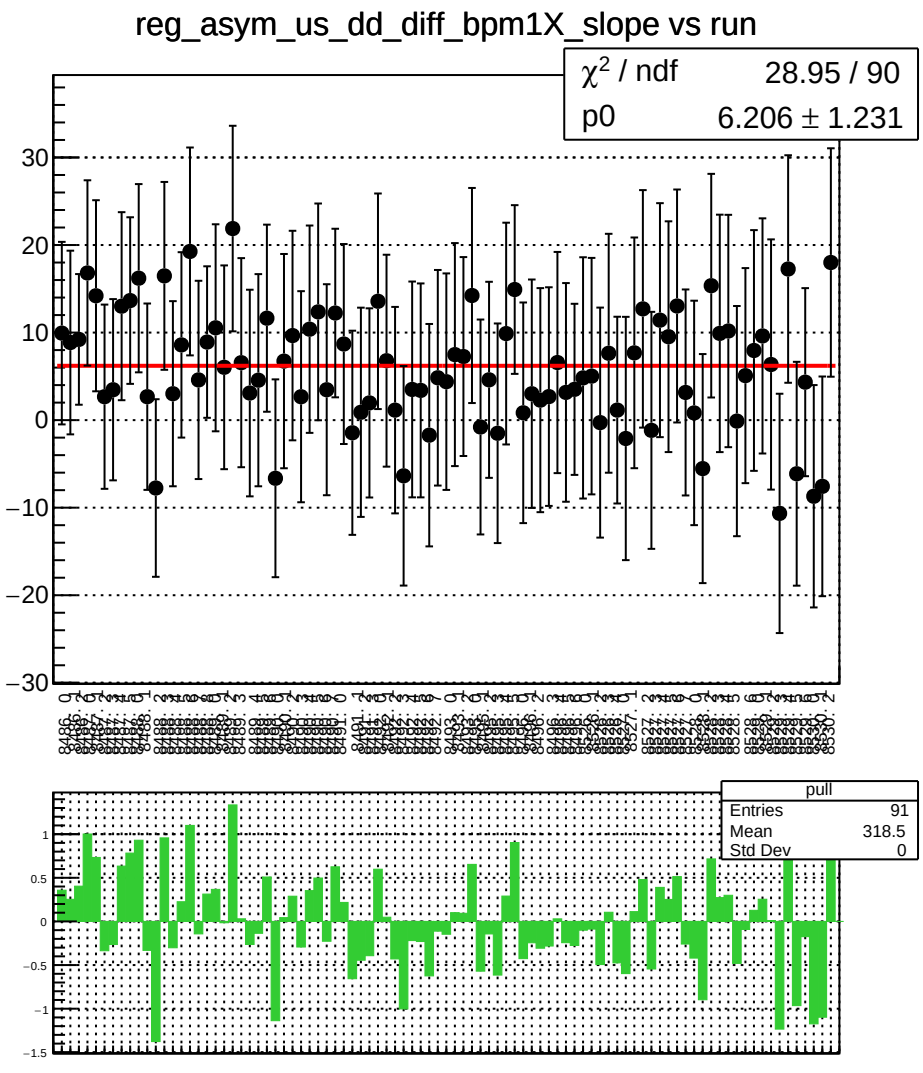

pull1D
Entries 91
Mean −0.01507
Std Dev 0.5367

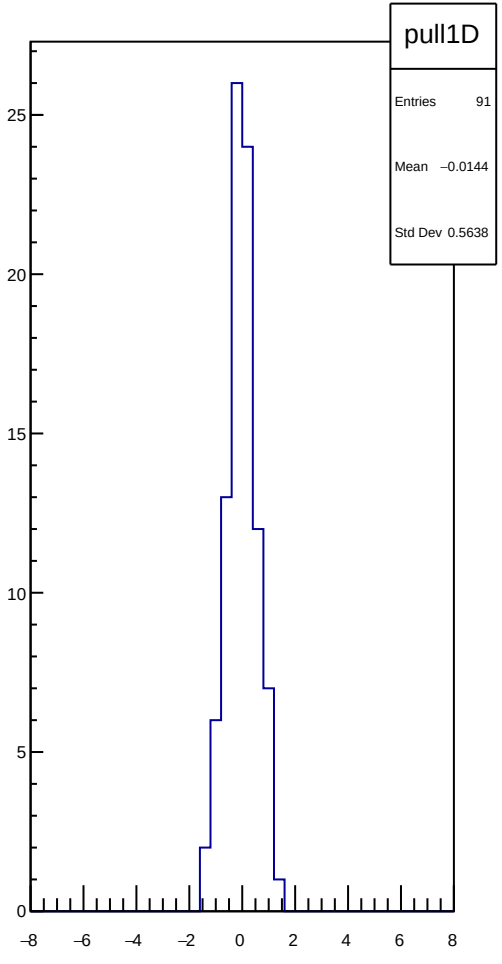

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 24.36 / 90
p0 4.42 ± 2.534
pull
Entries 91
Mean 9601
Std Dev 0

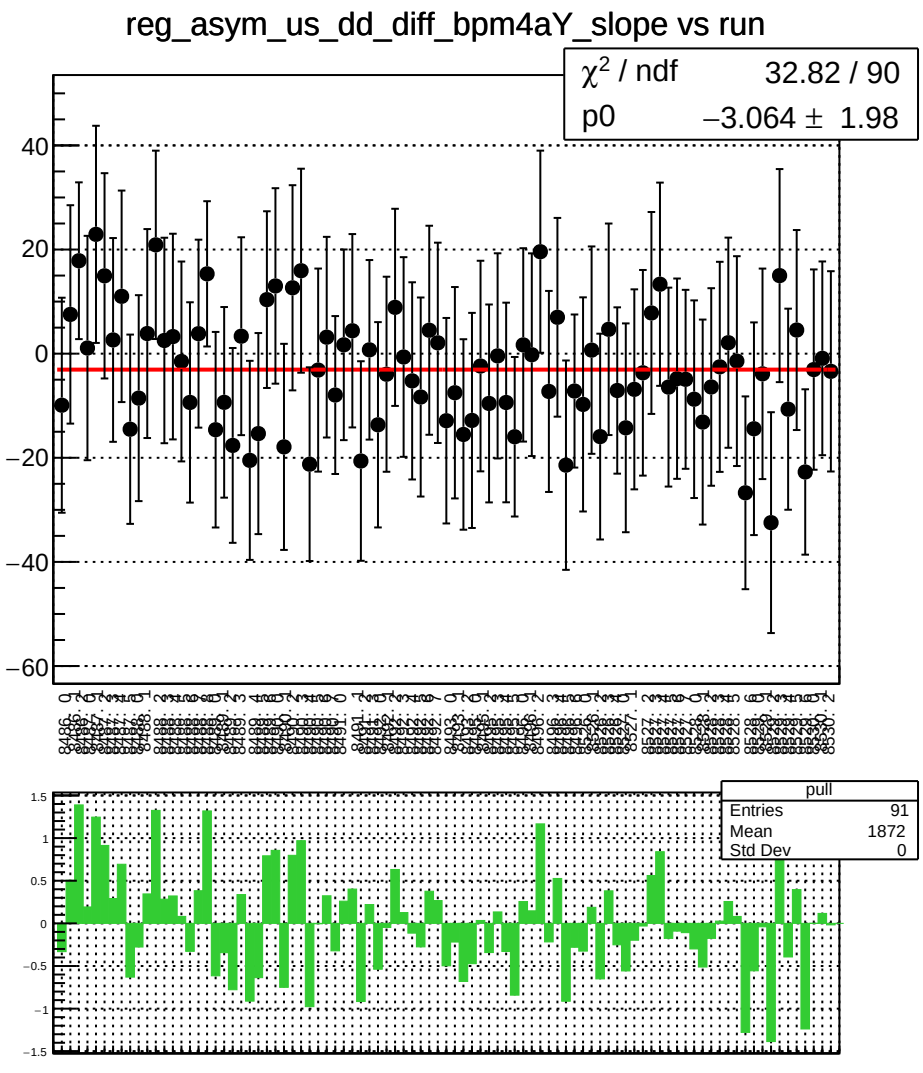

pull1D
Entries 91
Mean −0.000518
Std Dev 0.5174

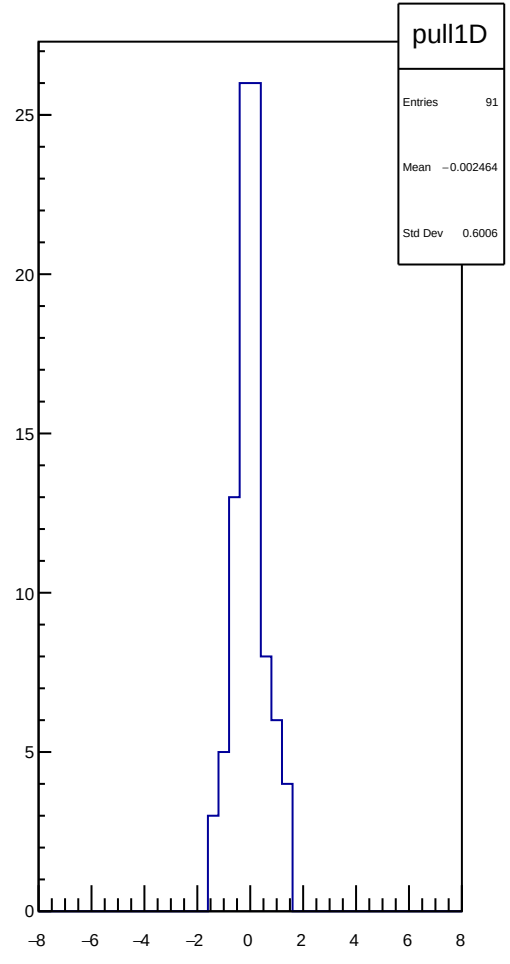

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 20.4 / 90
p0 −41.69 ± 0.1514
pull
Entries 91
Mean 362.4
Std Dev 0

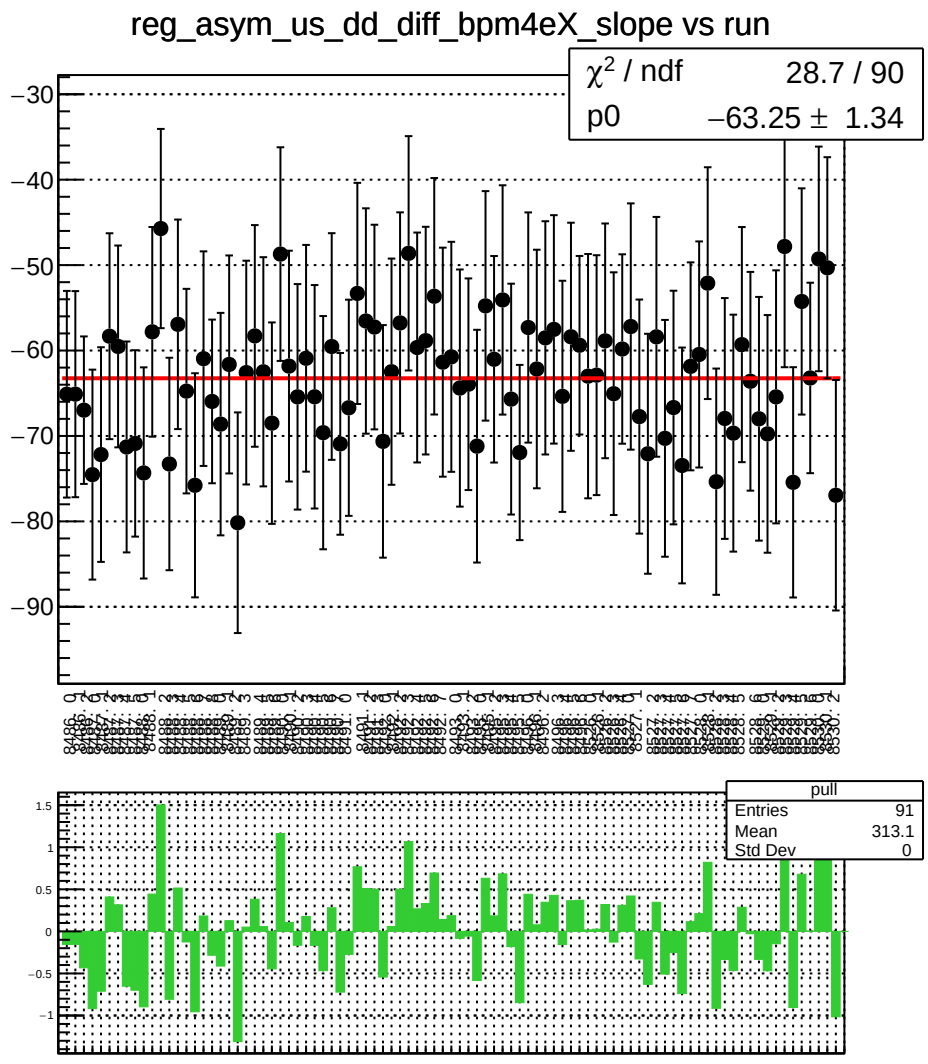

pull1D
Entries 91
Mean −0.009477
Std Dev 0.4734

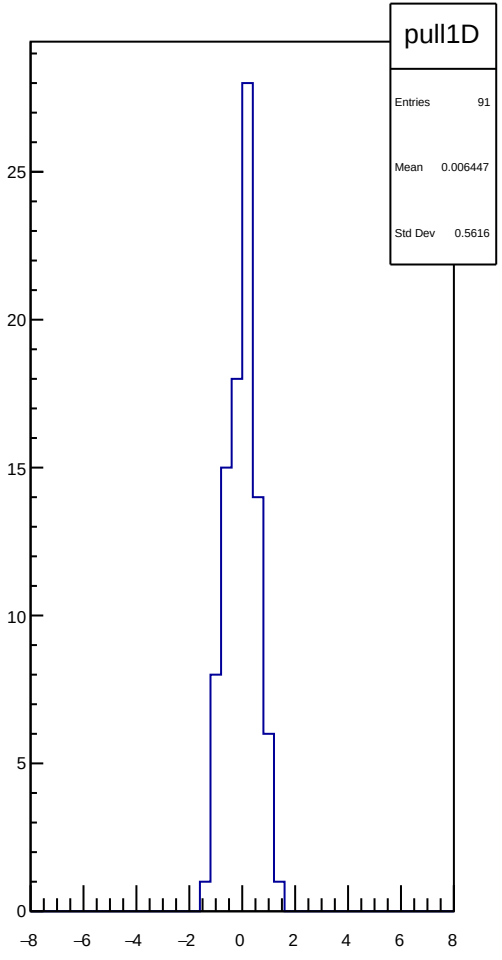

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 28.95 / 90
p0 6.206 ± 1.231
pull
Entries 91
Mean 318.5
Std Dev 0

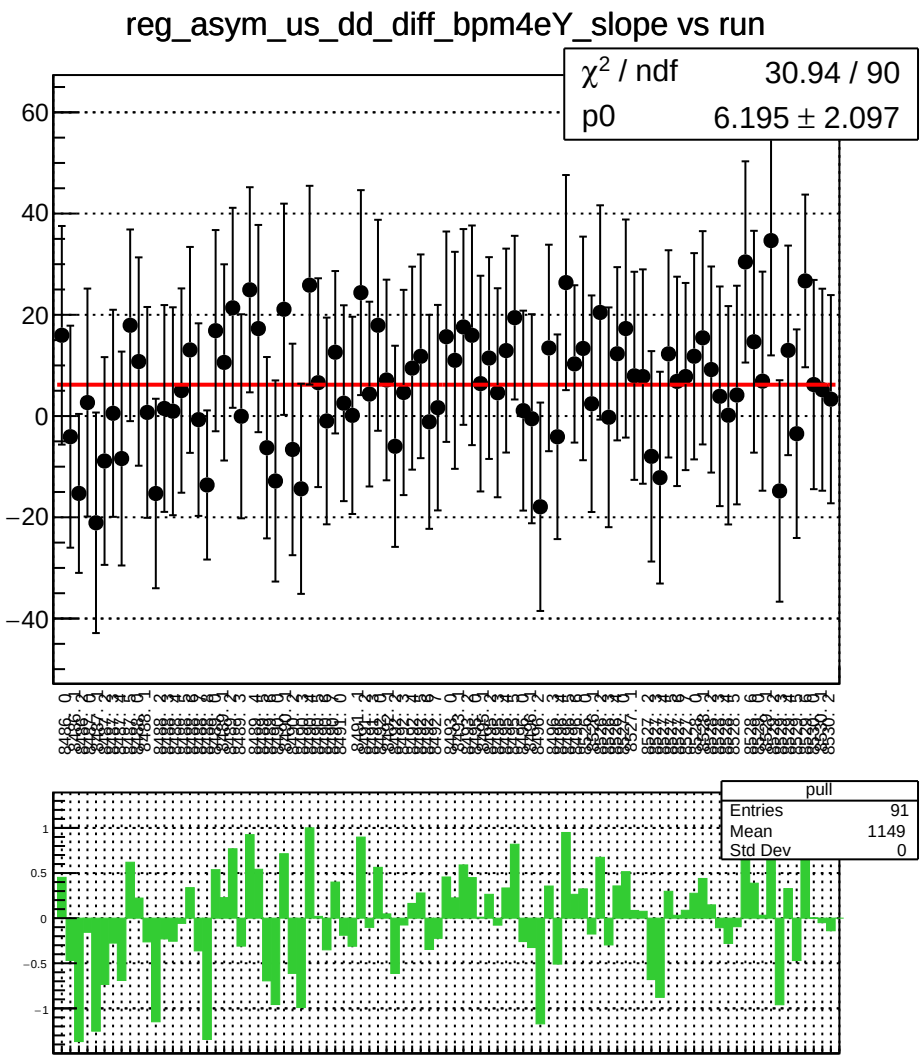

pull1D
Entries 91
Mean −0.0144
Std Dev 0.5638

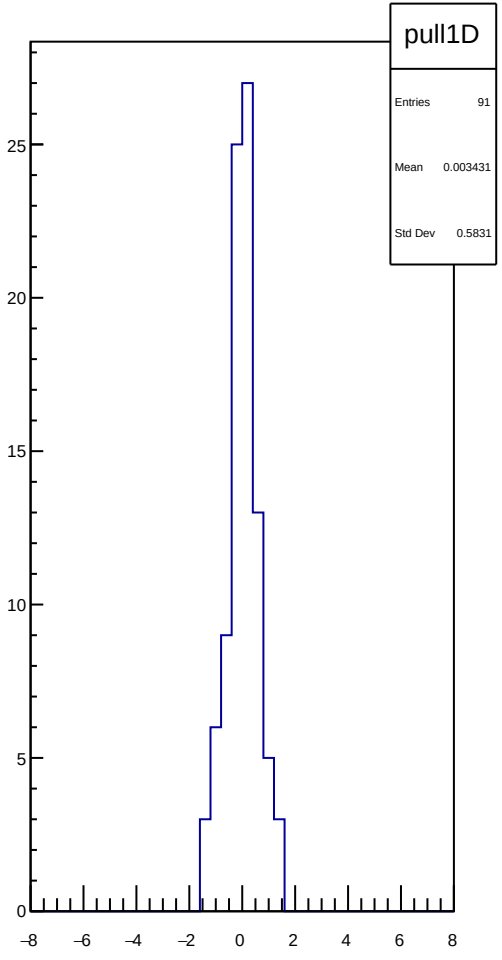

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 32.82 / 90
p0 −3.064 ± 1.98
pull
Entries 91
Mean 1872
Std Dev 0

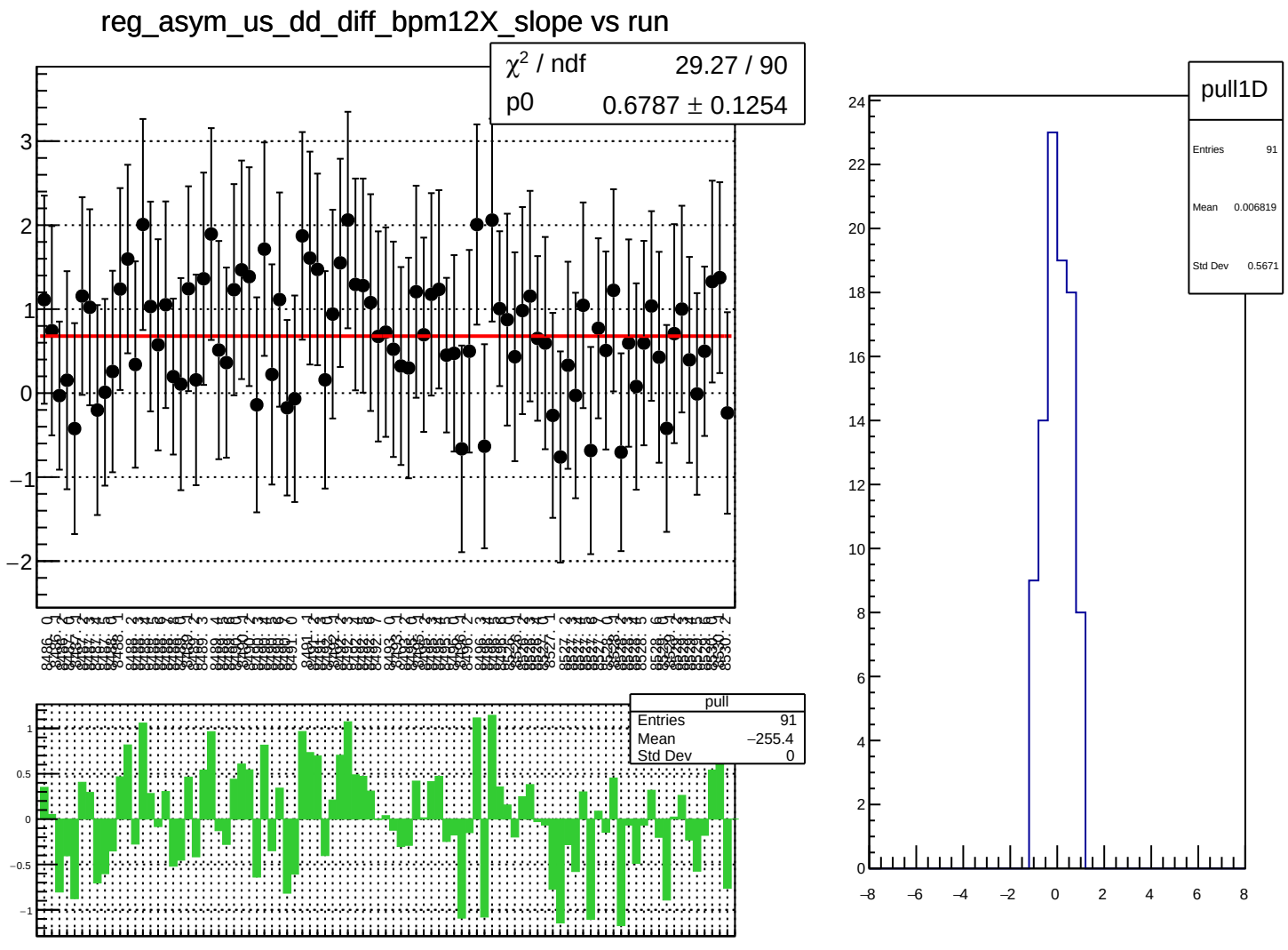

pull1D
Entries 91
Mean −0.002464
Std Dev 0.6006

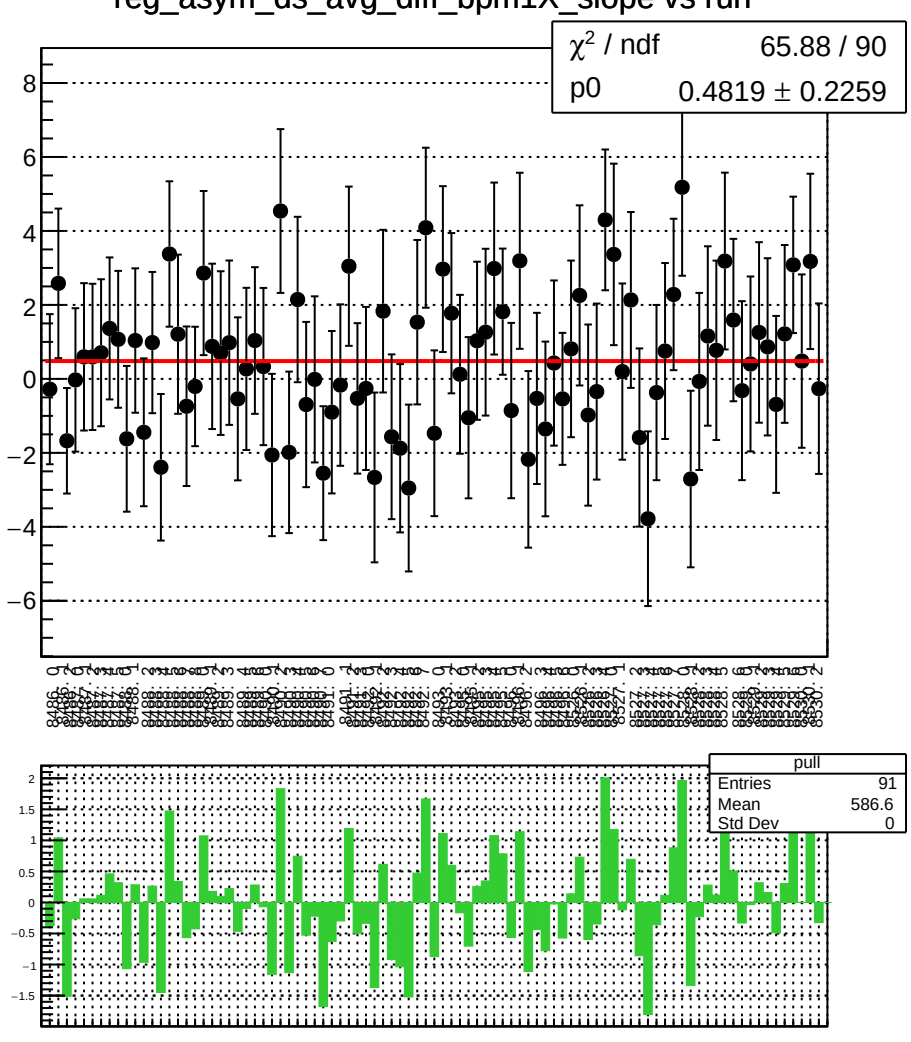

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 28.7 / 90
p0 −63.25 ± 1.34
pull
Entries 91
Mean 313.1
Std Dev 0

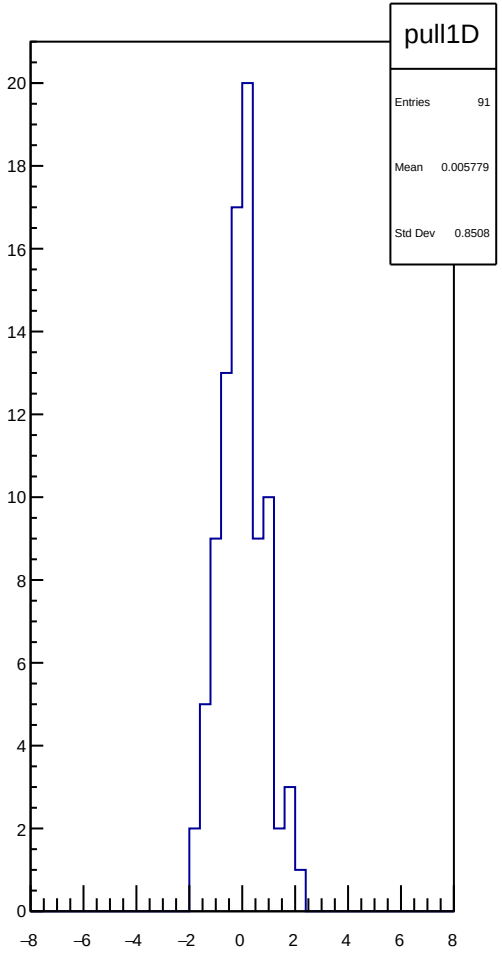

pull1D
Entries 91
Mean 0.006447
Std Dev 0.5616

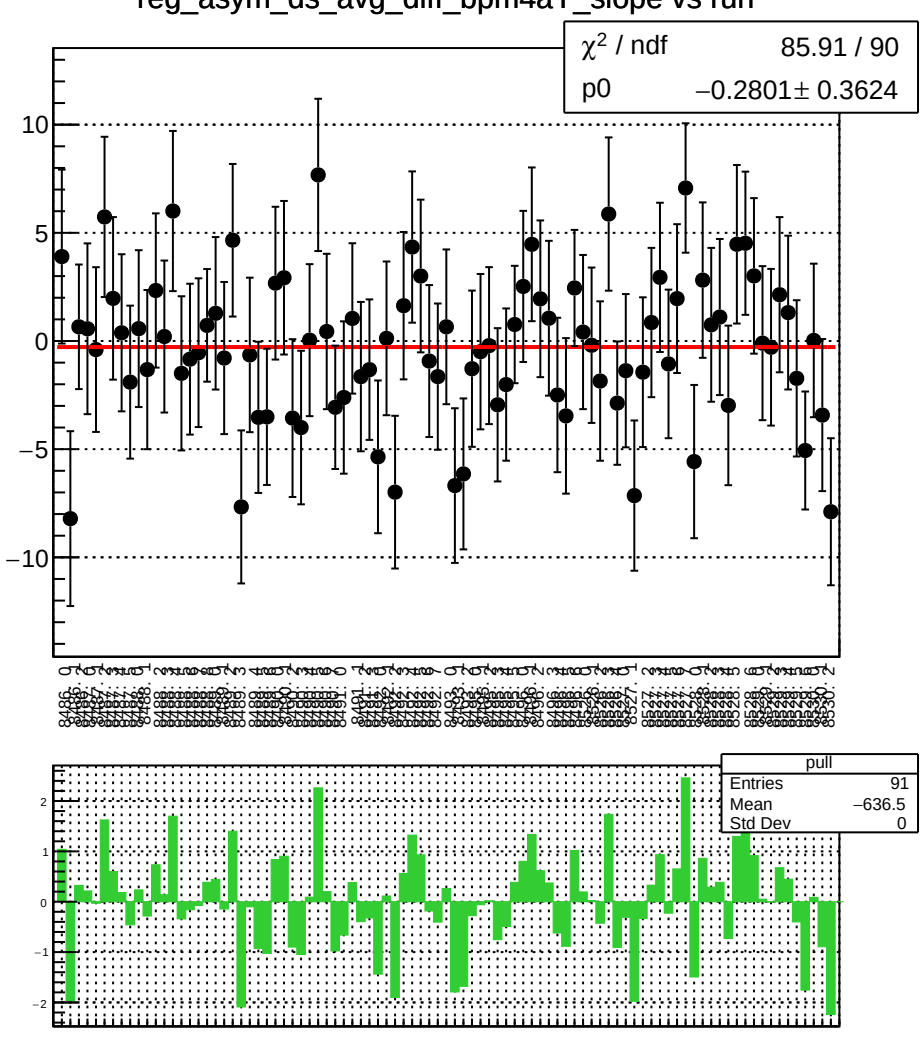

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 30.94 / 90
p0 6.195 ± 2.097
pull
Entries 91
Mean 1149
Std Dev 0

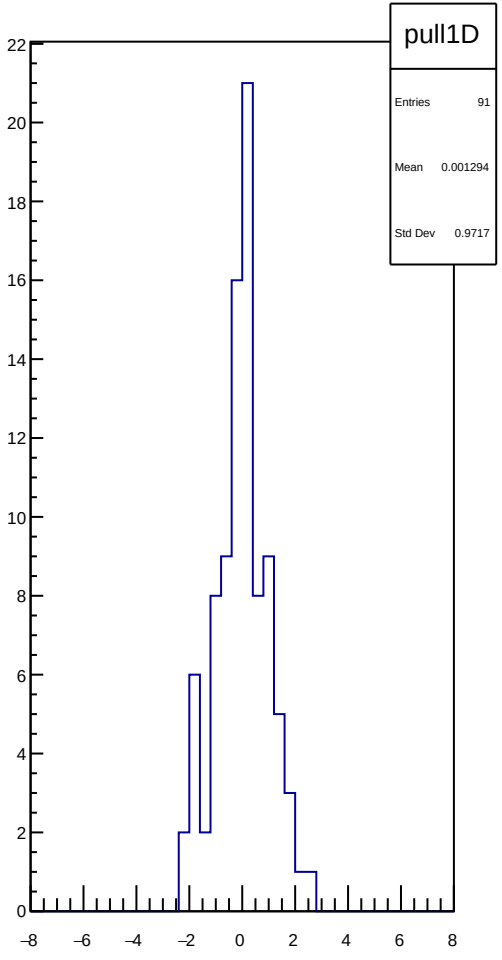

pull1D
Entries 91
Mean 0.003431
Std Dev 0.5831

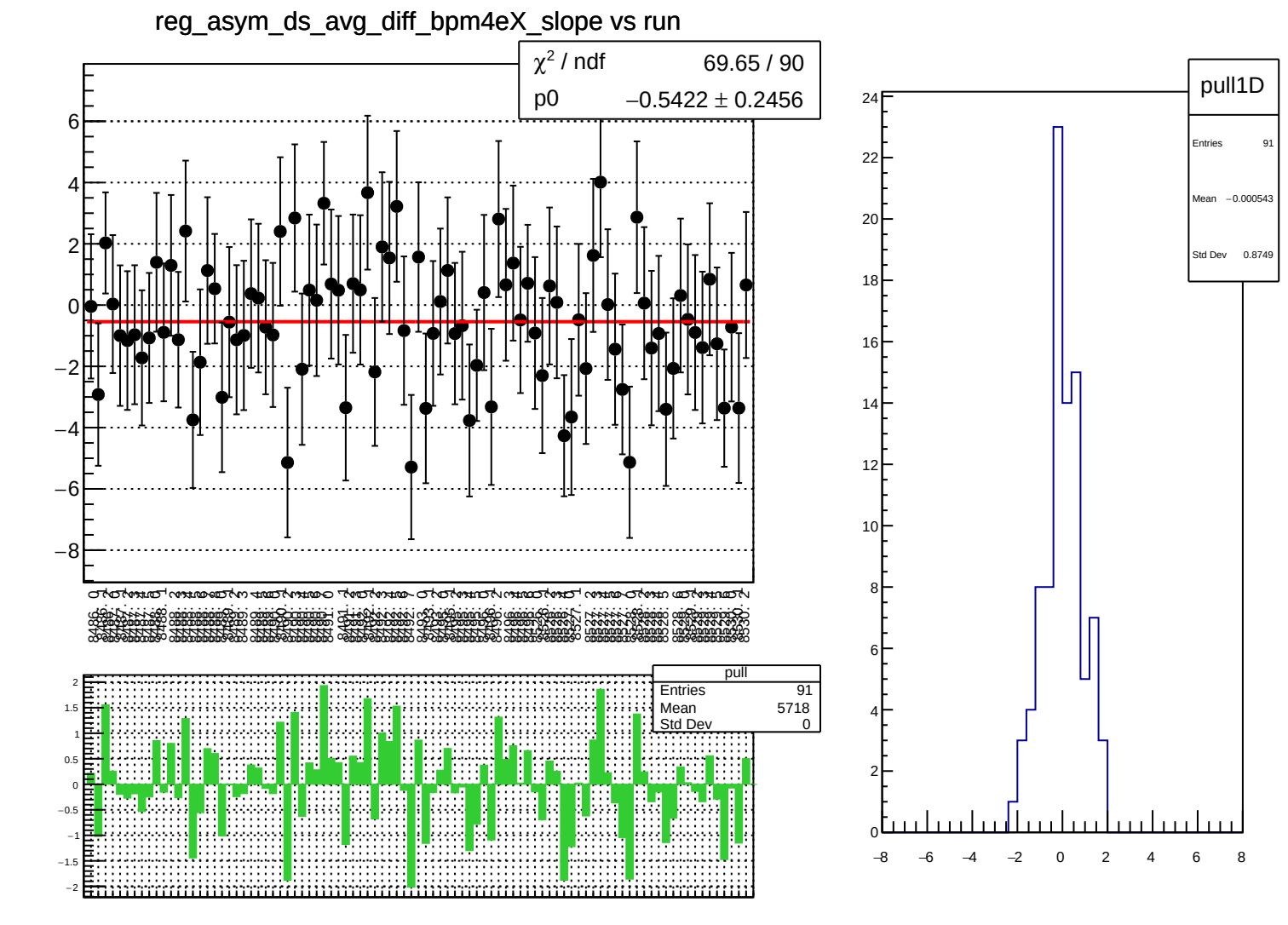

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 29.27 / 90
p0 0.6787 ± 0.1254
pull
Entries 91
Mean −255.4
Std Dev 0
pull1D
Entries 91
Mean 0.006819
Std Dev 0.5671

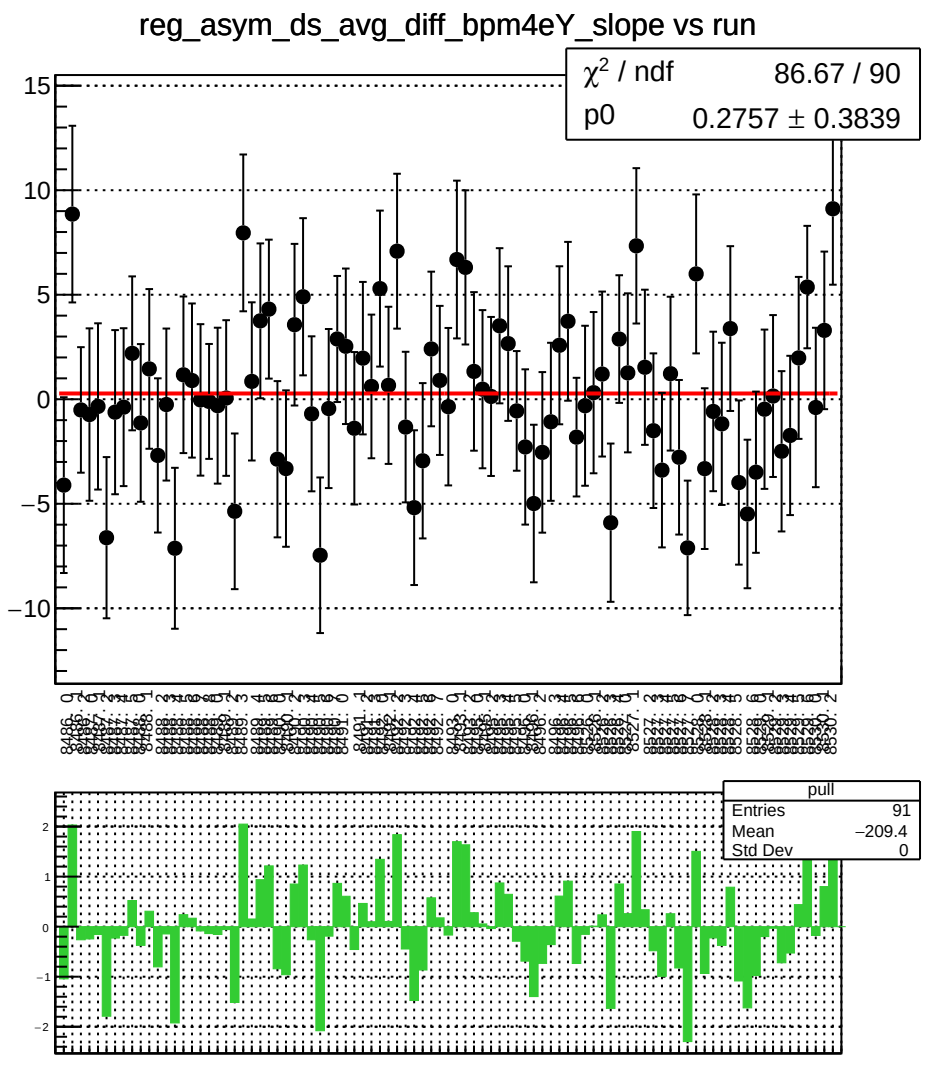

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 65.88 / 90
p0 0.4819 ± 0.2259
pull
Entries 91
Mean 586.6
Std Dev 0

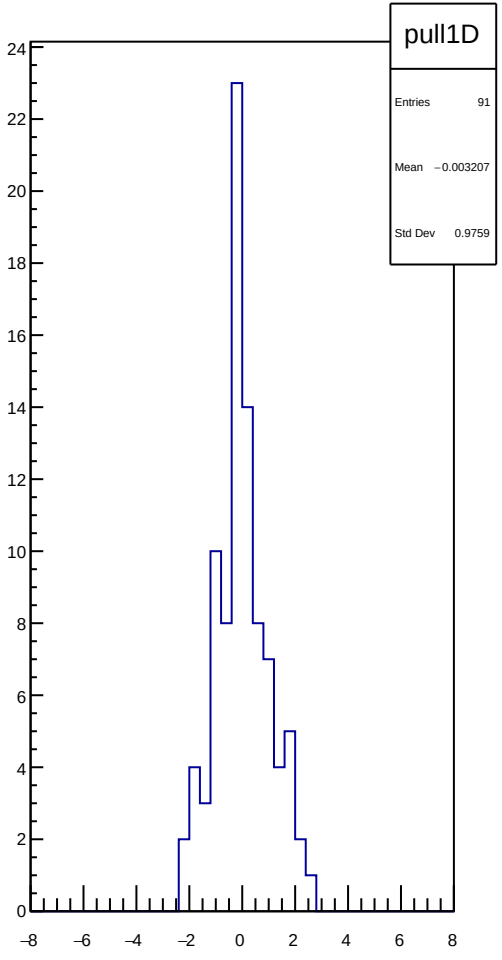

pull1D
Entries 91
Mean 0.005779
Std Dev 0.8508

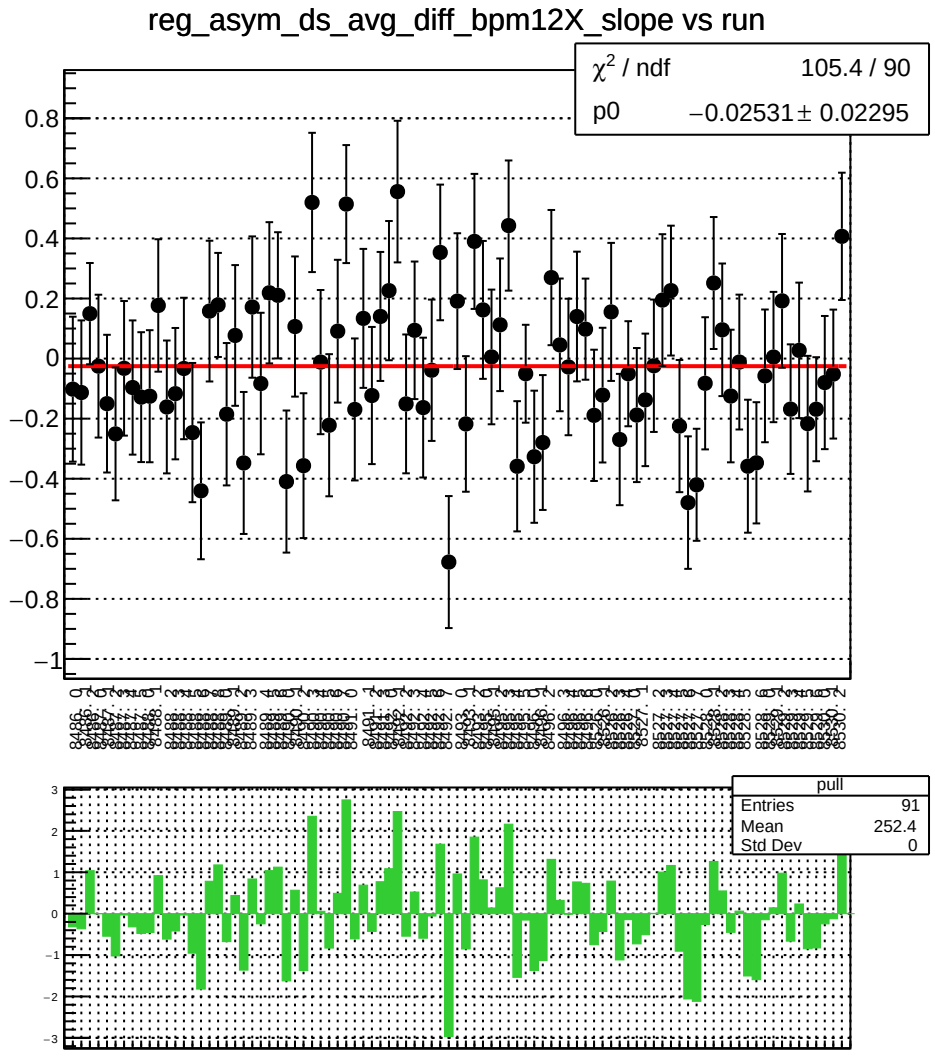

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 85.91 / 90
p0 −0.2801± 0.3624
pull
Entries 91
Mean −636.5
Std Dev 0

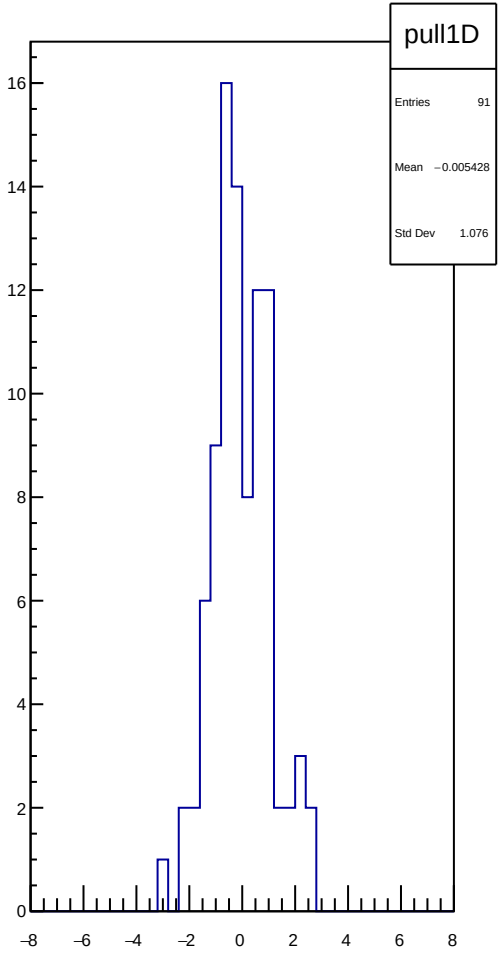

pull1D
Entries 91
Mean 0.001294
Std Dev 0.9717

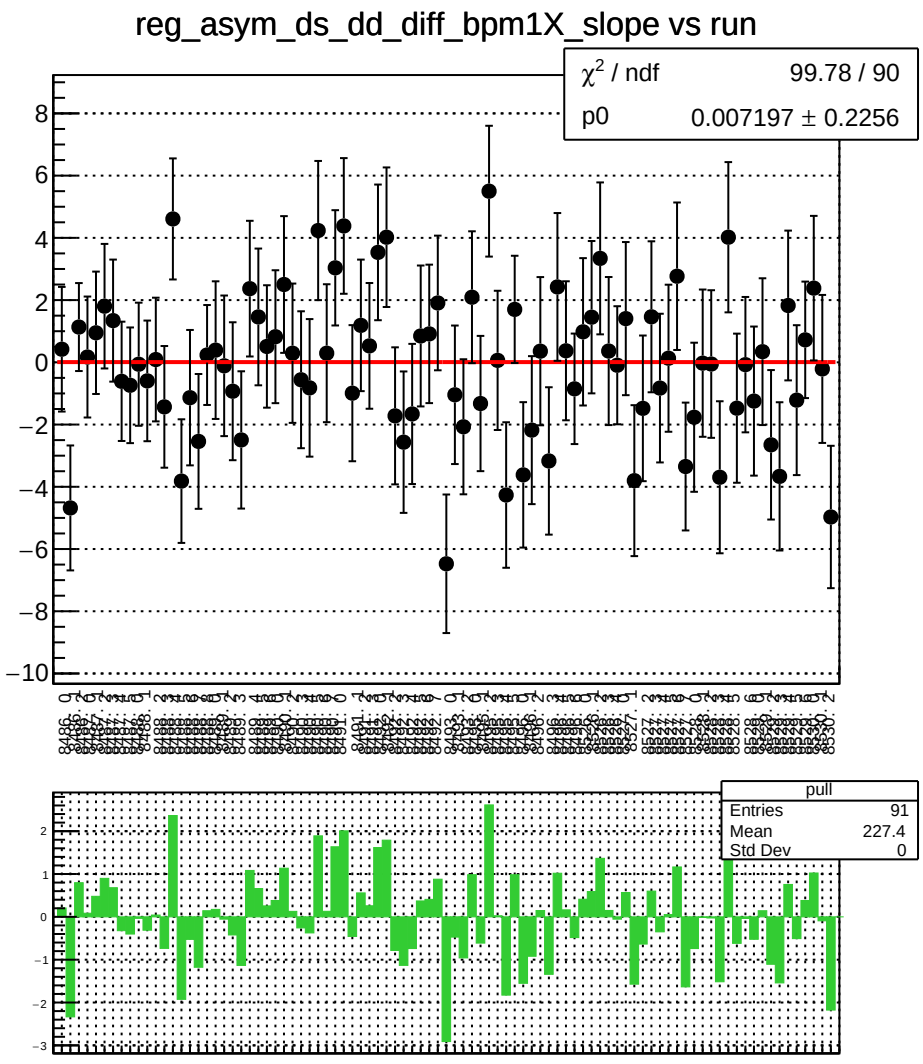

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 69.65 / 90
p0 −0.5422 ± 0.2456
pull
Entries 91
Mean 5718
Std Dev 0
pull1D
Entries 91
Mean −0.000543
Std Dev 0.8749

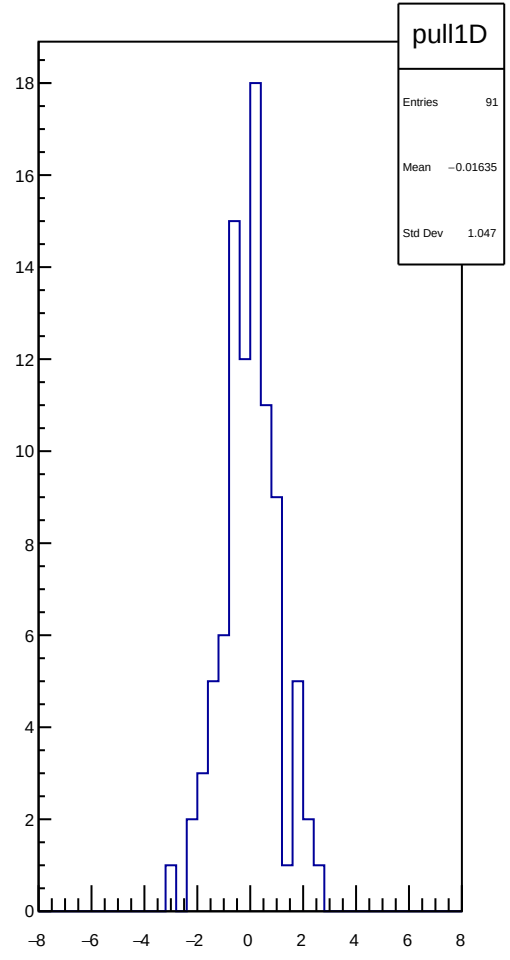

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 86.67 / 90
p0 0.2757 ± 0.3839
pull
Entries 91
Mean −209.4
Std Dev 0

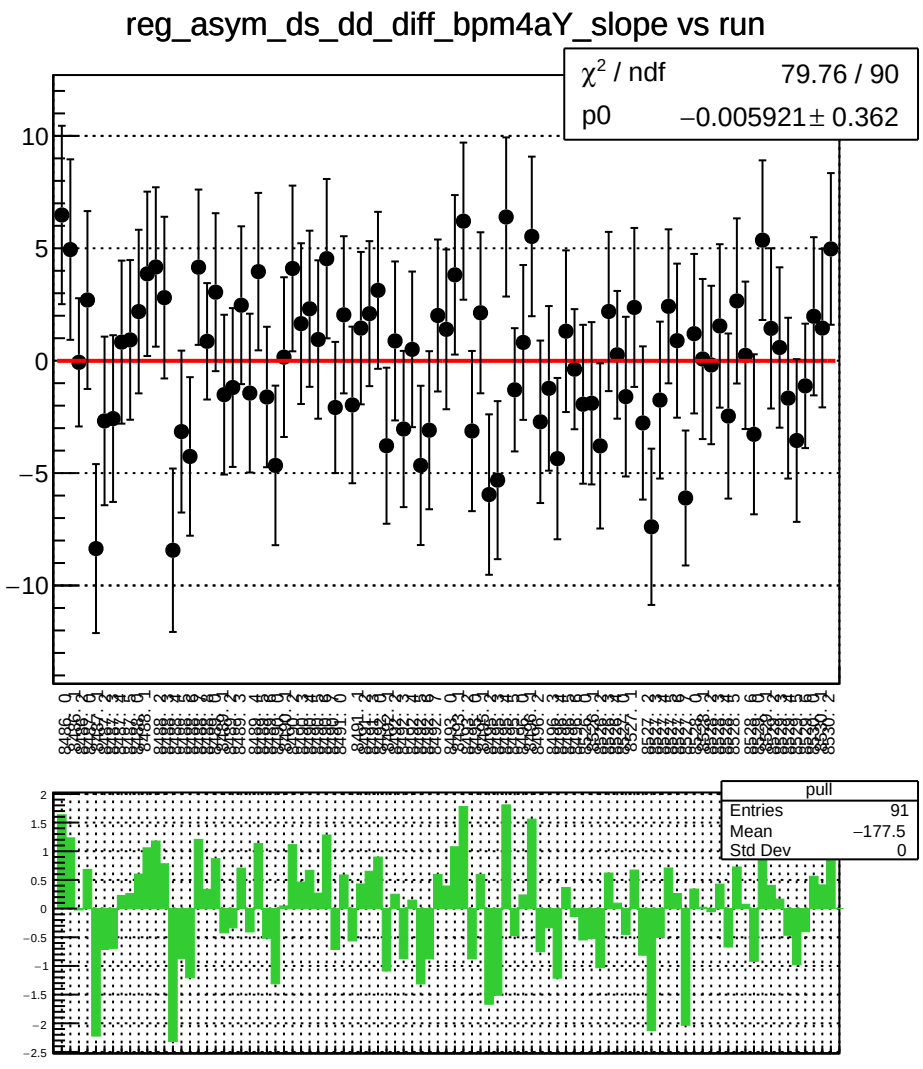

pull1D
Entries 91
Mean −0.003207
Std Dev 0.9759

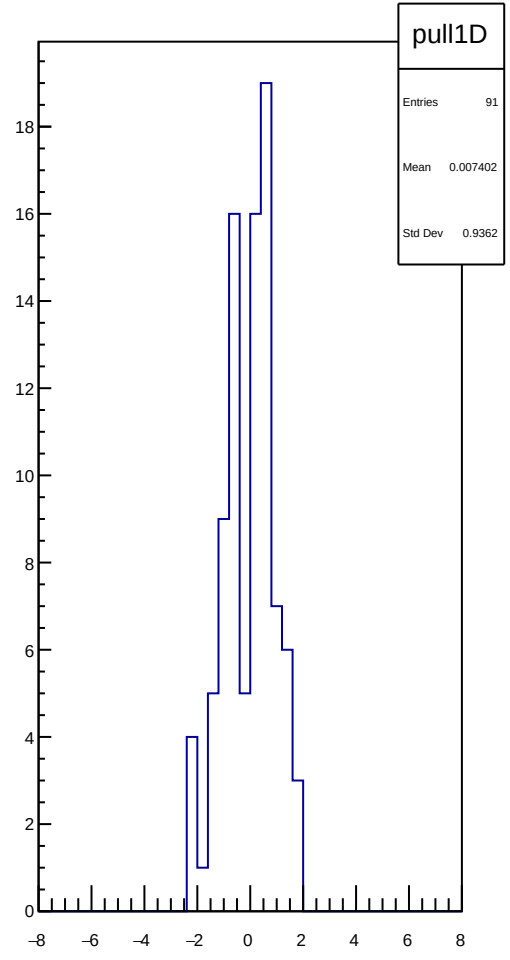

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 105.4 / 90
p0 −0.02531 ± 0.02295
pull
Entries 91
Mean 252.4
Std Dev 0

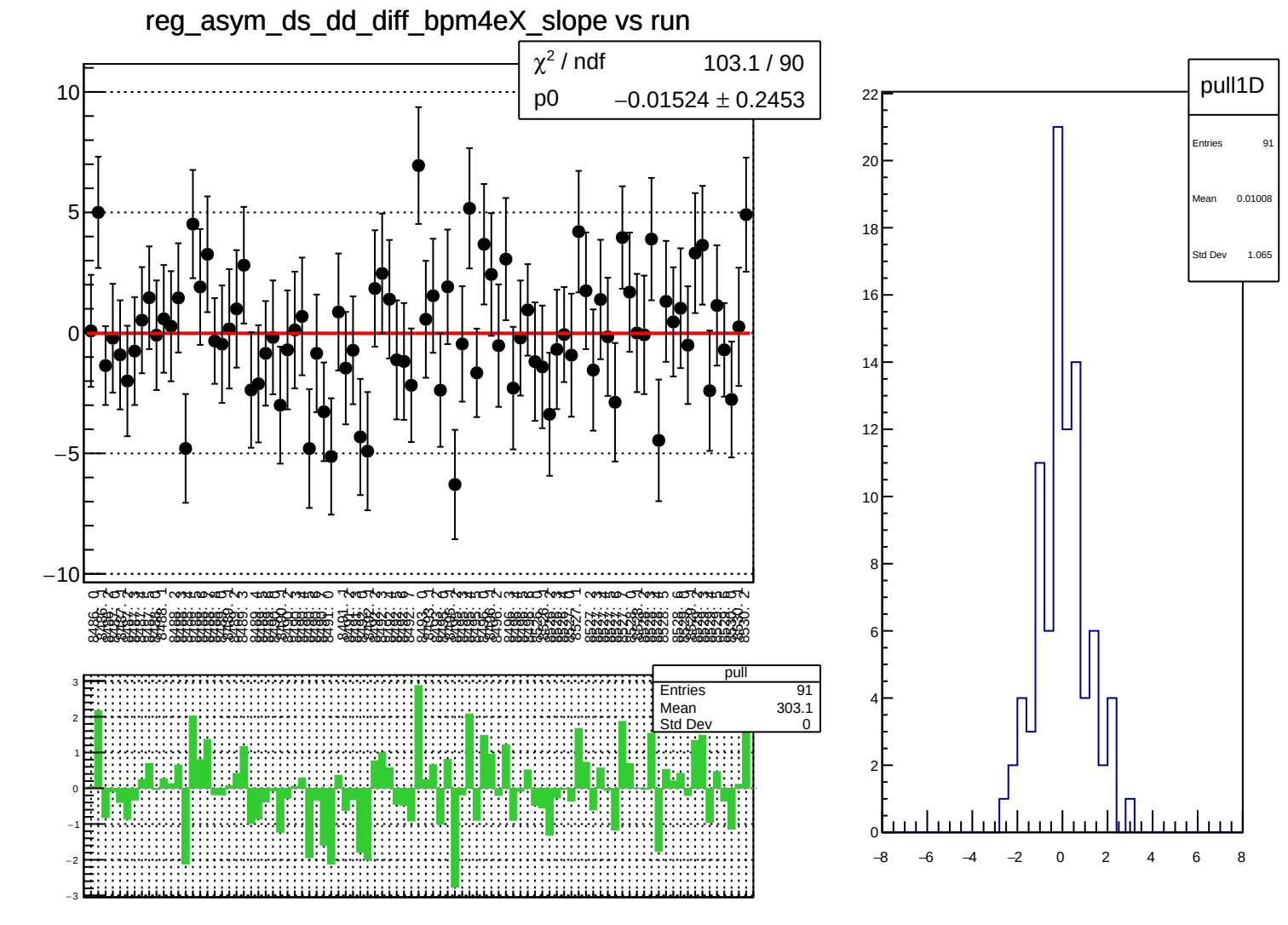

pull1D
Entries 91
Mean −0.005428
Std Dev 1.076

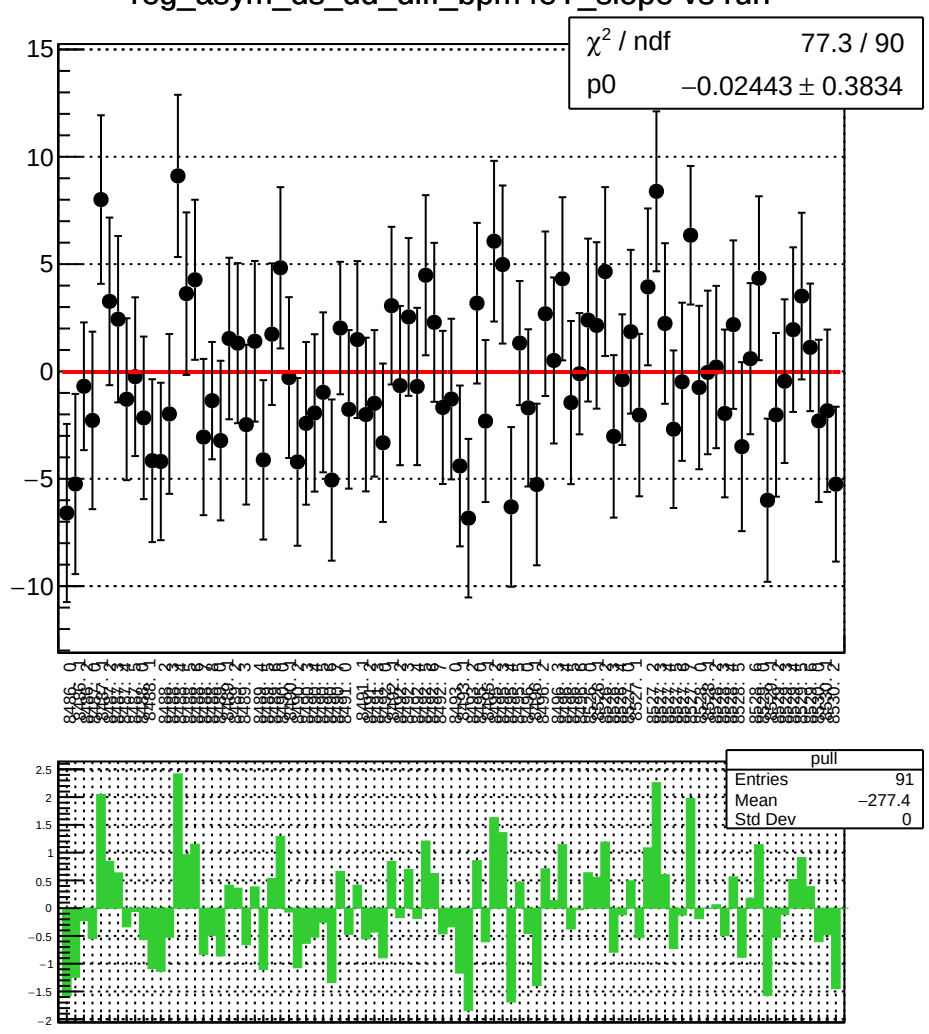

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 99.78 / 90
p0 0.007197 ± 0.2256
pull
Entries 91
Mean 227.4
Std Dev 0

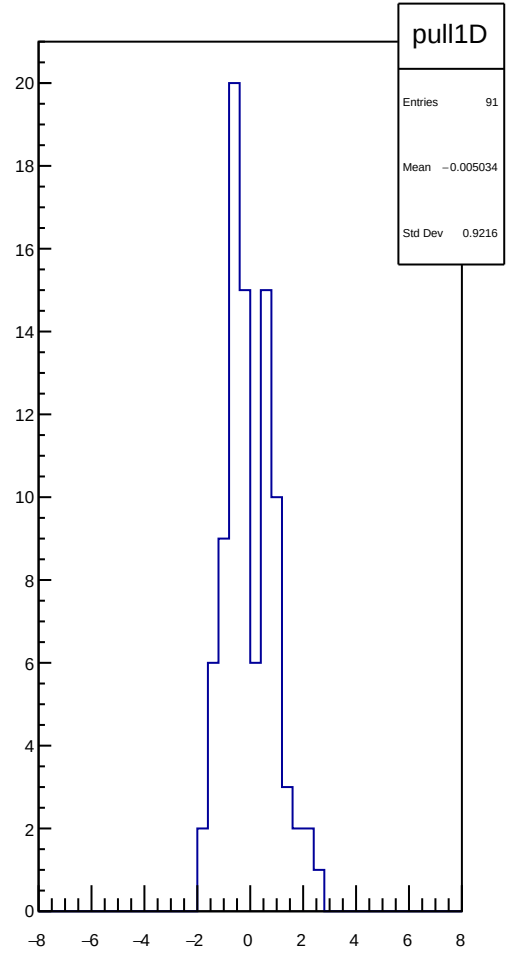

pull1D
Entries 91
Mean −0.01635
Std Dev 1.047

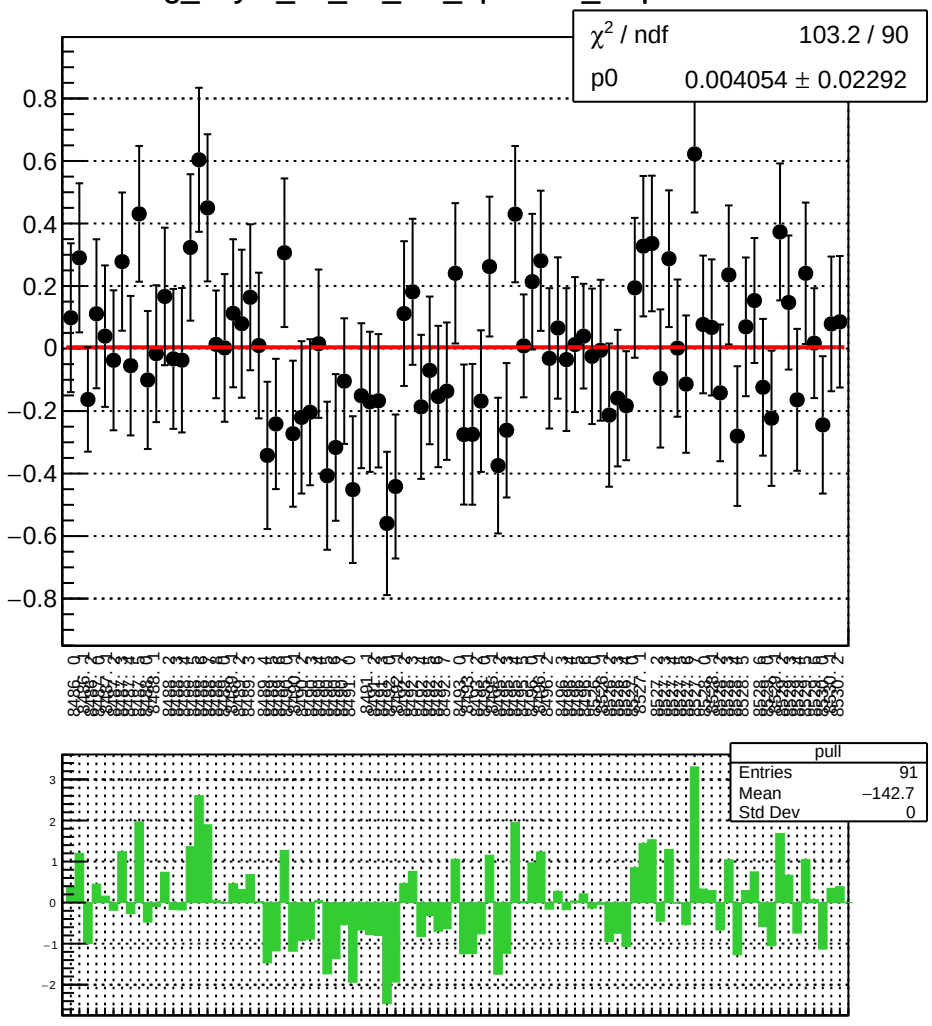

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 79.76 / 90
p0 −0.005921 ± 0.362
pull
Entries 91
Mean −177.5
Std Dev 0

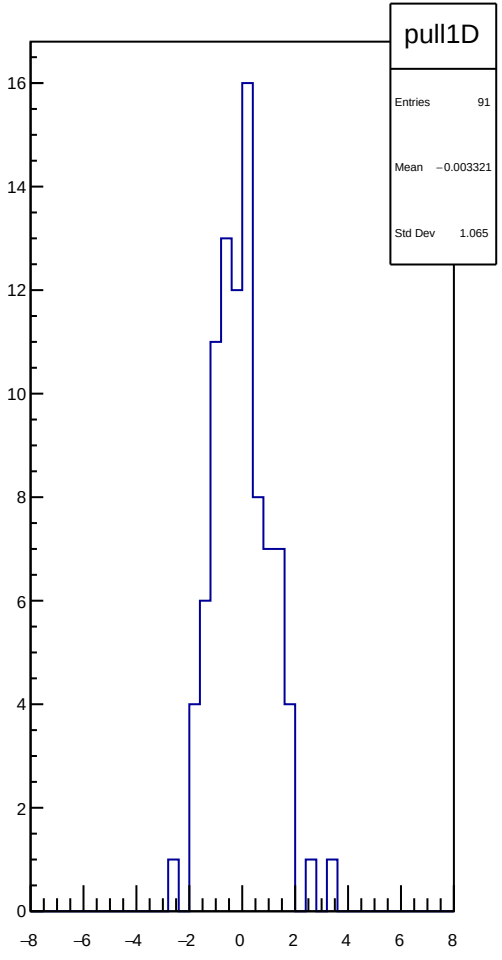

pull1D
Entries 91
Mean 0.007402
Std Dev 0.9362

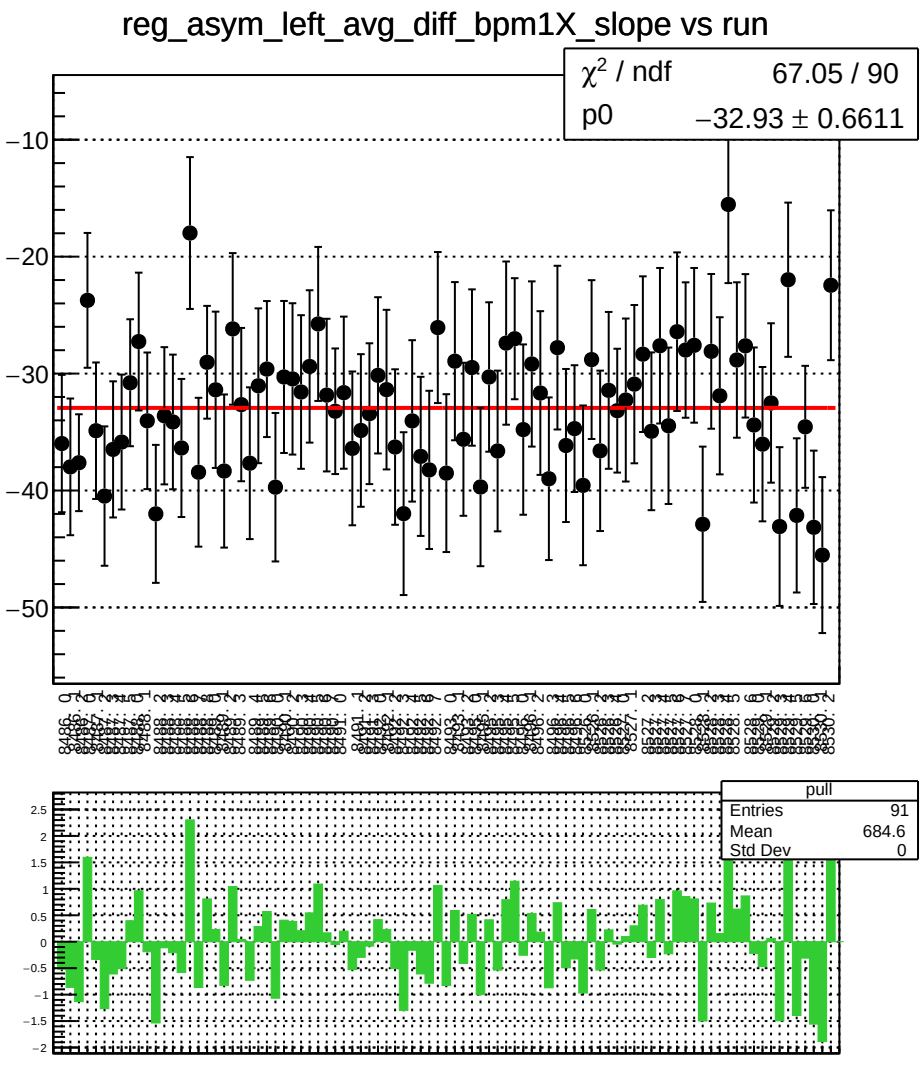

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 103.1 / 90
p0 −0.01524 ± 0.2453
pull
Entries 91
Mean 303.1
Std Dev 0
pull1D
Entries 91
Mean 0.01008
Std Dev 1.065

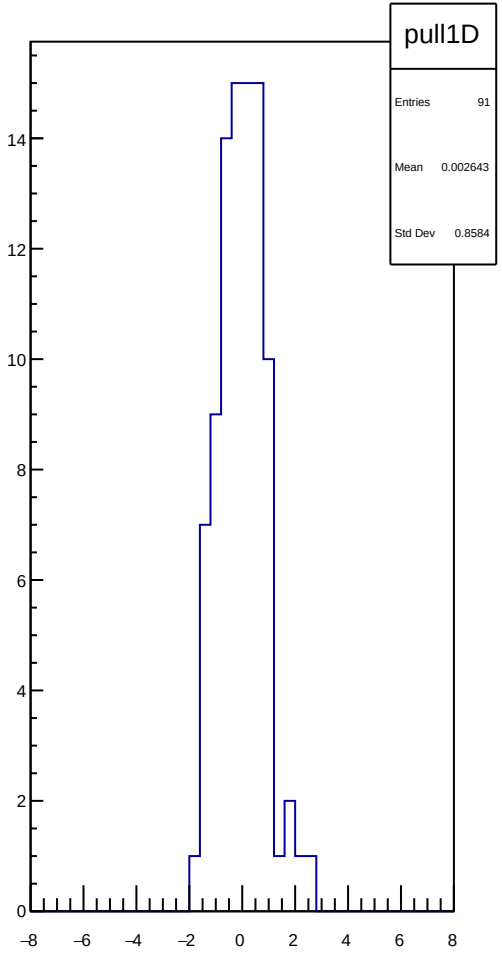

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 77.3 / 90
p0 −0.02443 ± 0.3834
pull
Entries 91
Mean −277.4
Std Dev 0

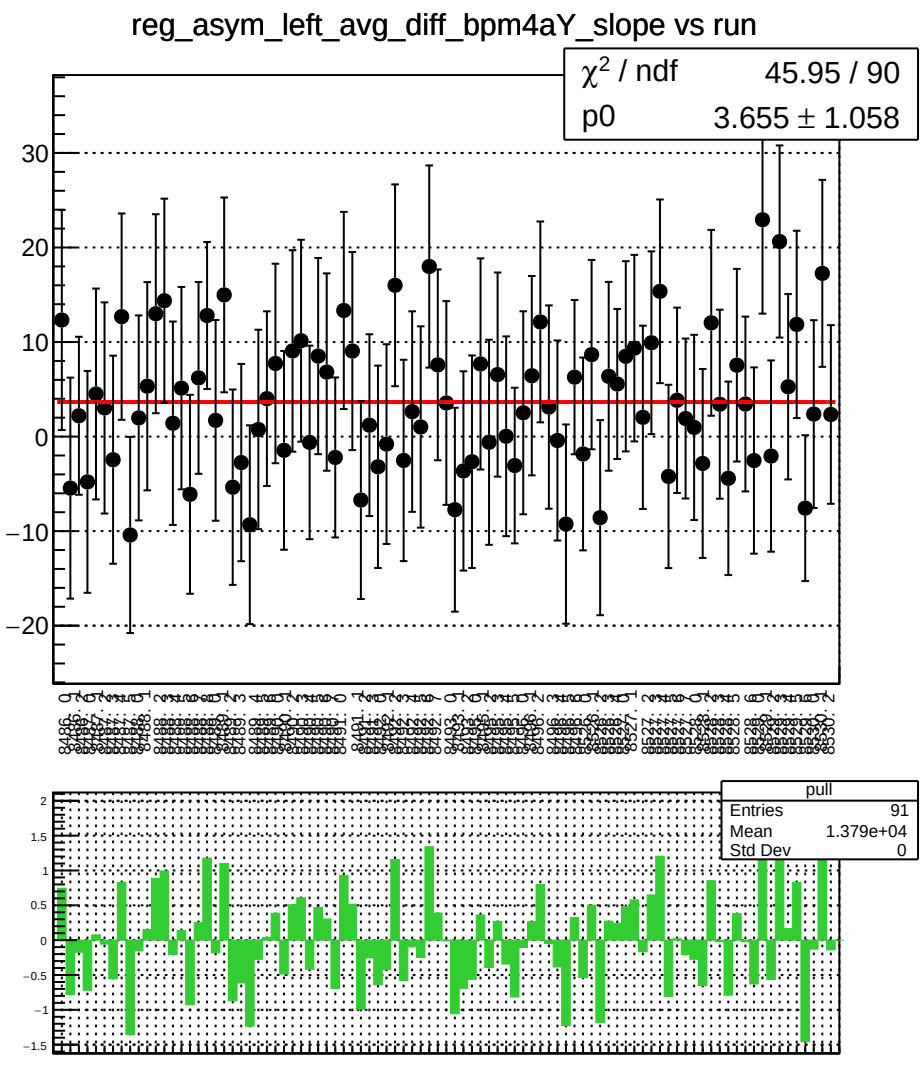

pull1D
Entries 91
Mean −0.005034
Std Dev 0.9216

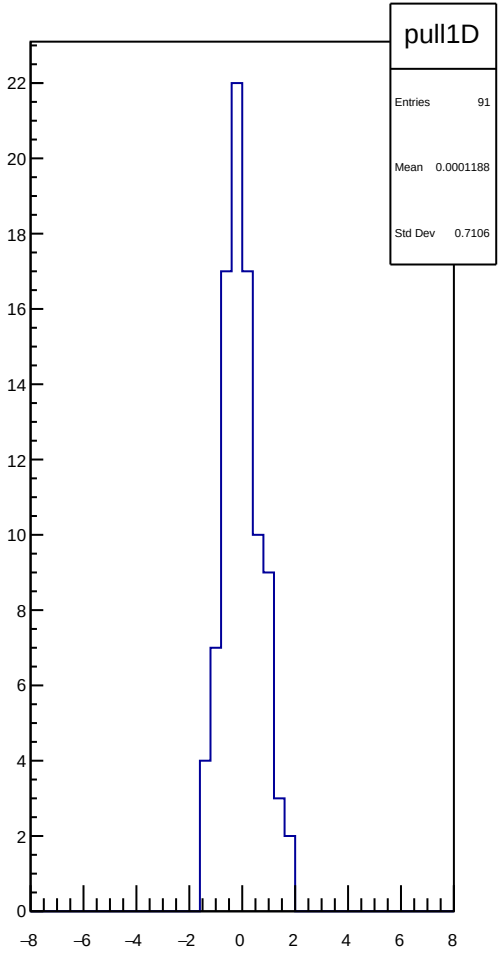

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 103.2 / 90
p0 0.004054 ± 0.02292
pull
Entries 91
Mean −142.7
Std Dev 0

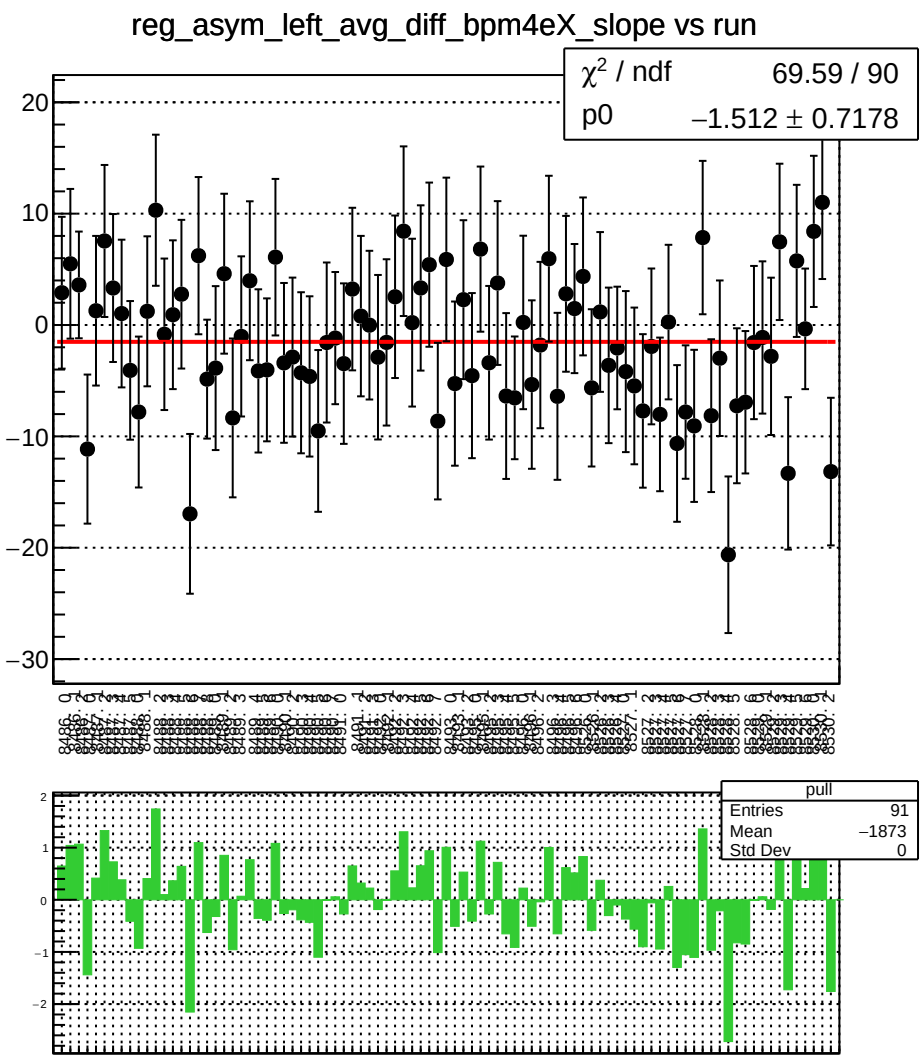

pull1D
Entries 91
Mean −0.003321
Std Dev 1.065

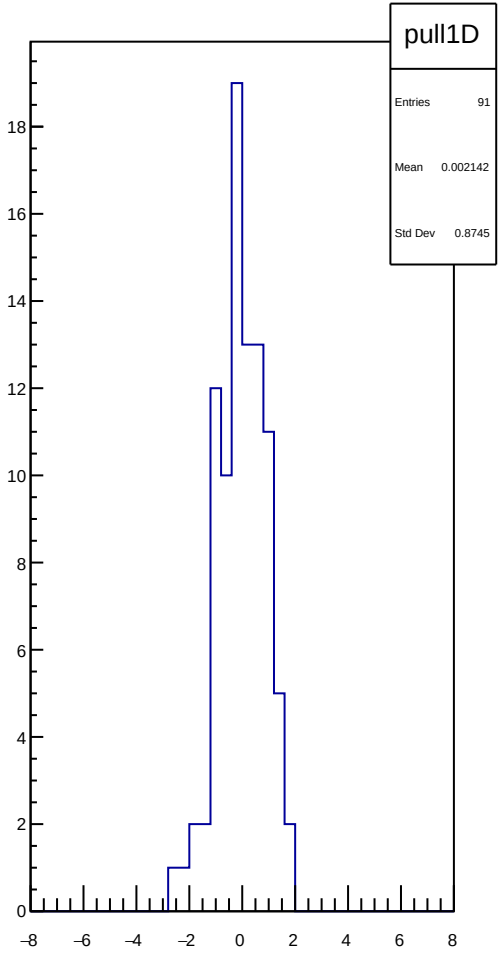

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 67.05 / 90
p0 −32.93 ± 0.6611
pull
Entries 91
Mean 684.6
Std Dev 0

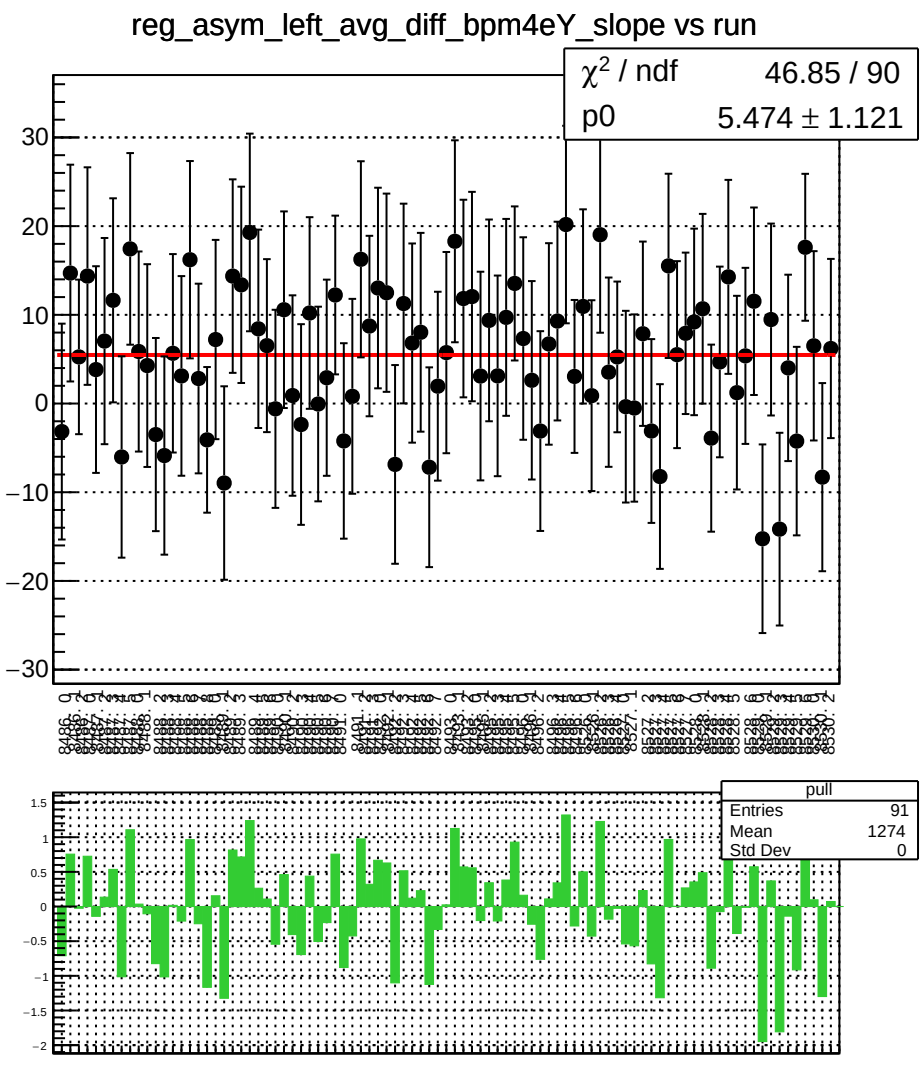

pull1D
Entries 91
Mean 0.002643
Std Dev 0.8584

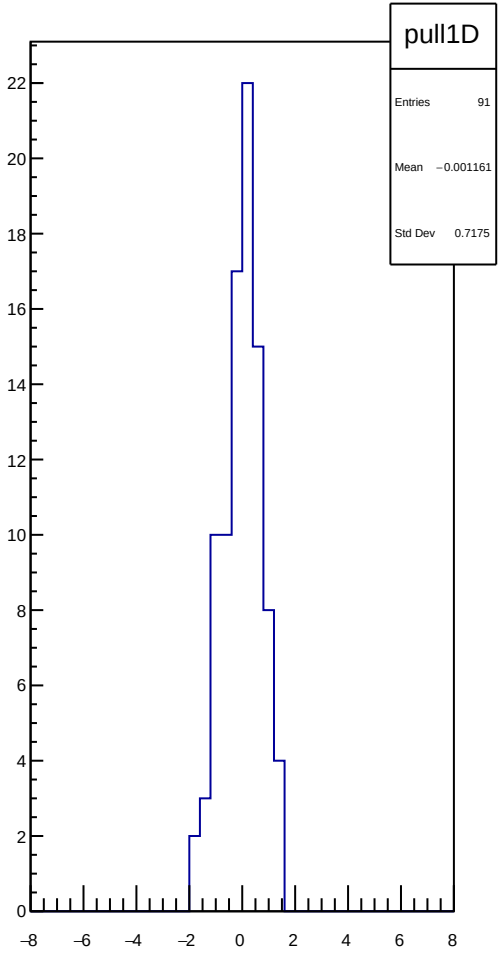

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 45.95 / 90
p0 3.655 ± 1.058
pull
Entries 91
Mean 1.379e+04
Std Dev 0

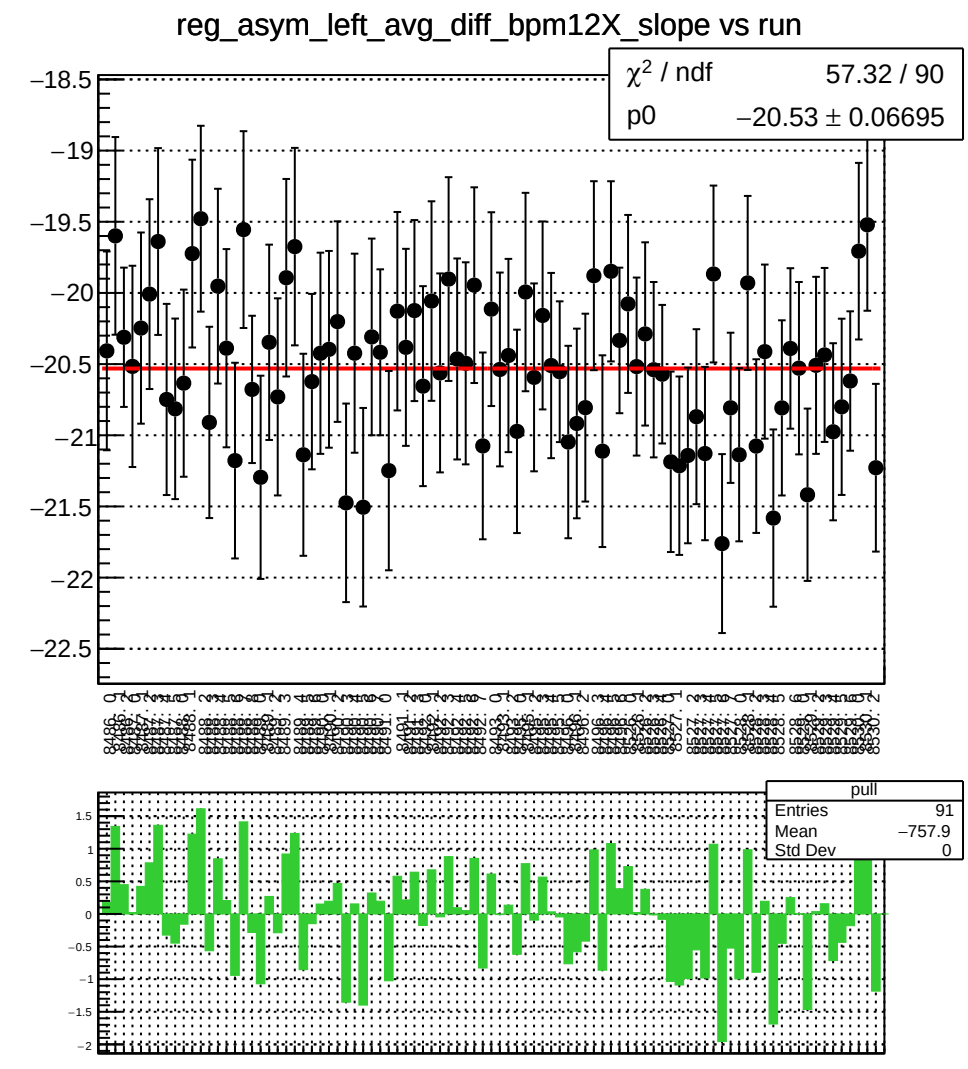

pull1D
Entries 91
Mean 0.0001188
Std Dev 0.7106

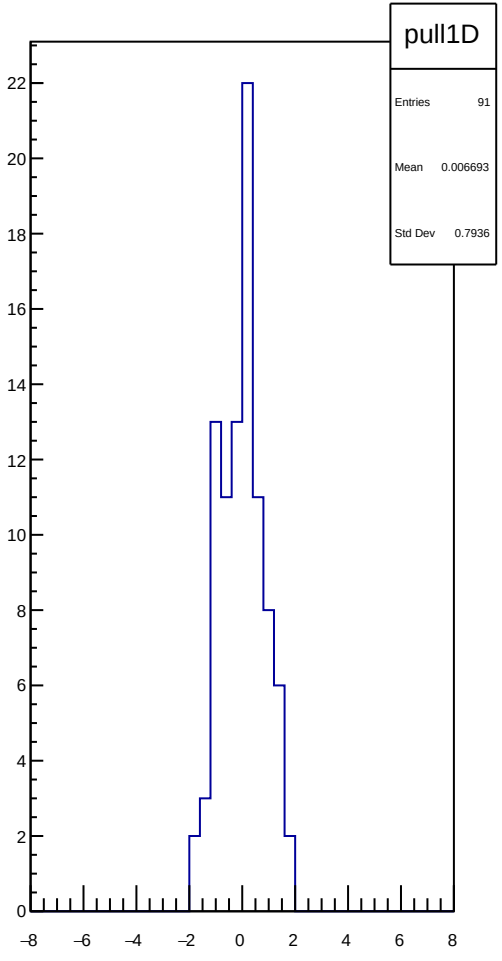

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 69.59 / 90
p0 −1.512 ± 0.7178
pull
Entries 91
Mean −1873
Std Dev 0

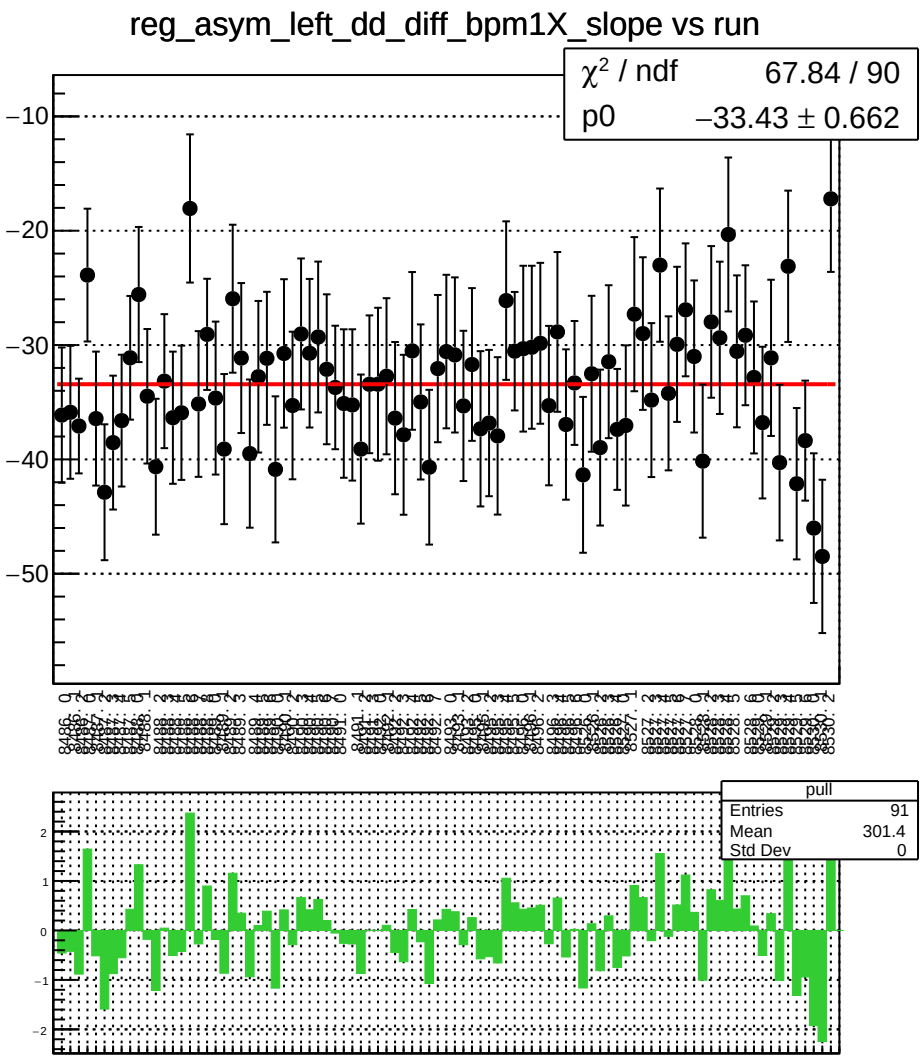

pull1D
Entries 91
Mean 0.002142
Std Dev 0.8745

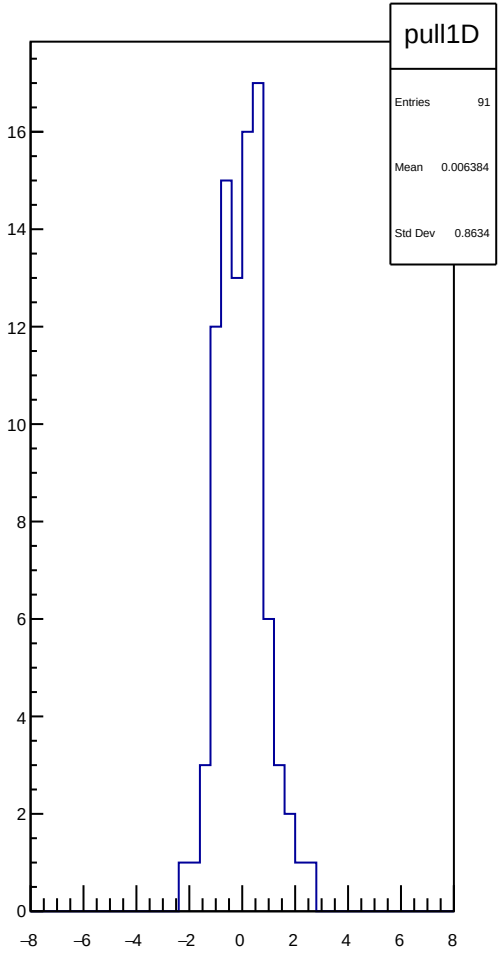

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 46.85 / 90
p0 5.474 ± 1.121
pull
Entries 91
Mean 1274
Std Dev 0

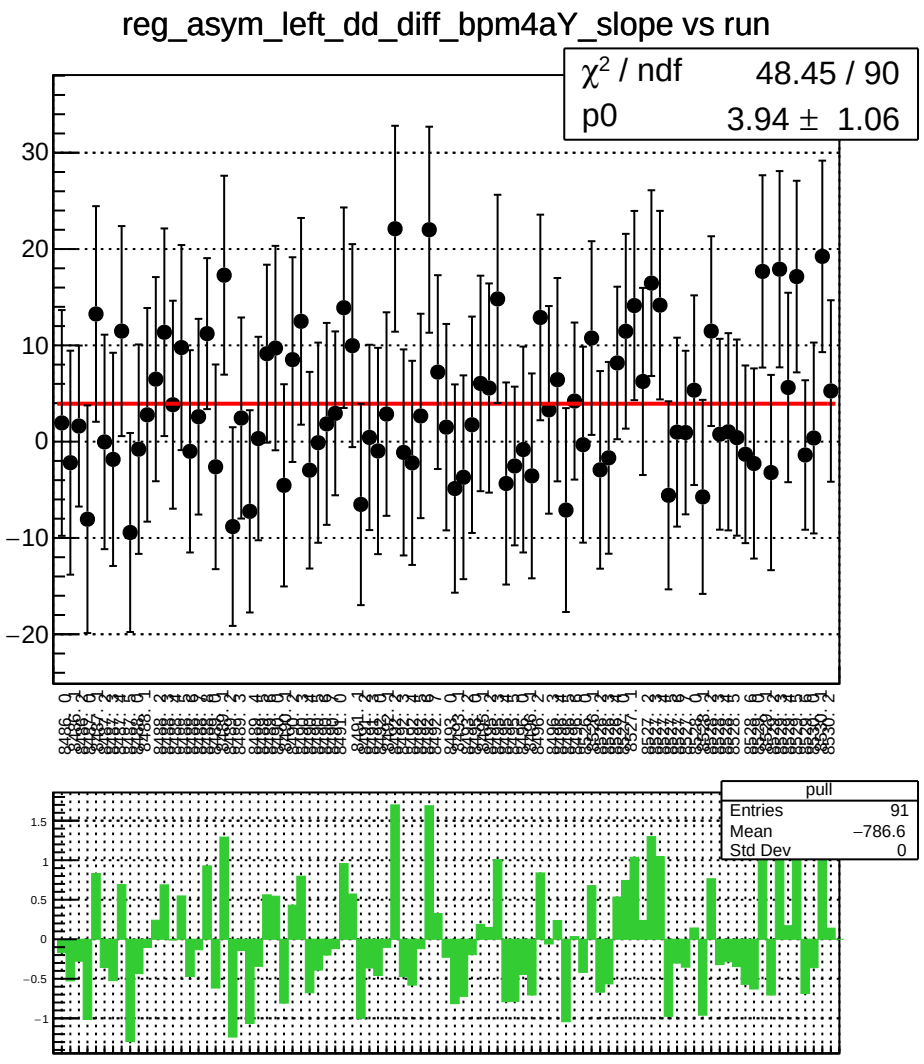

pull1D
Entries 91
Mean −0.001161
Std Dev 0.7175

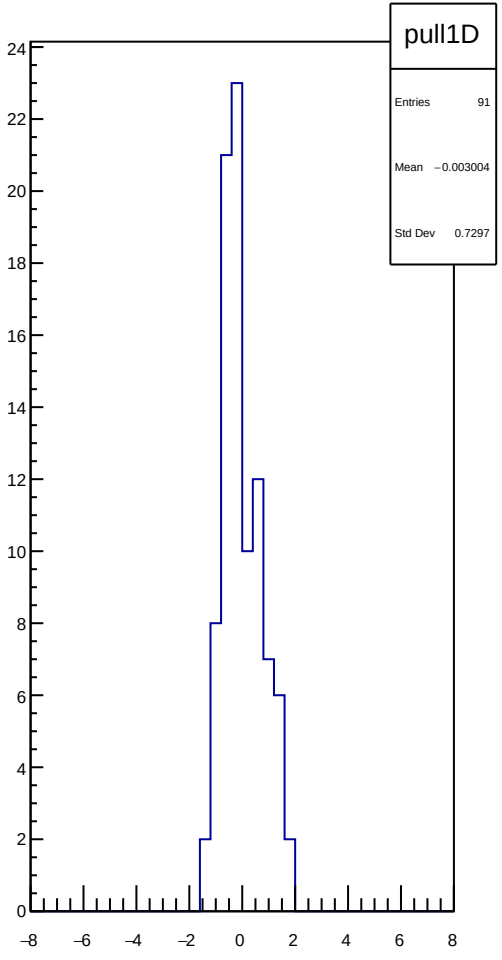

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 57.32 / 90
p0 −20.53 ± 0.06695
pull
Entries 91
Mean −757.9
Std Dev 0

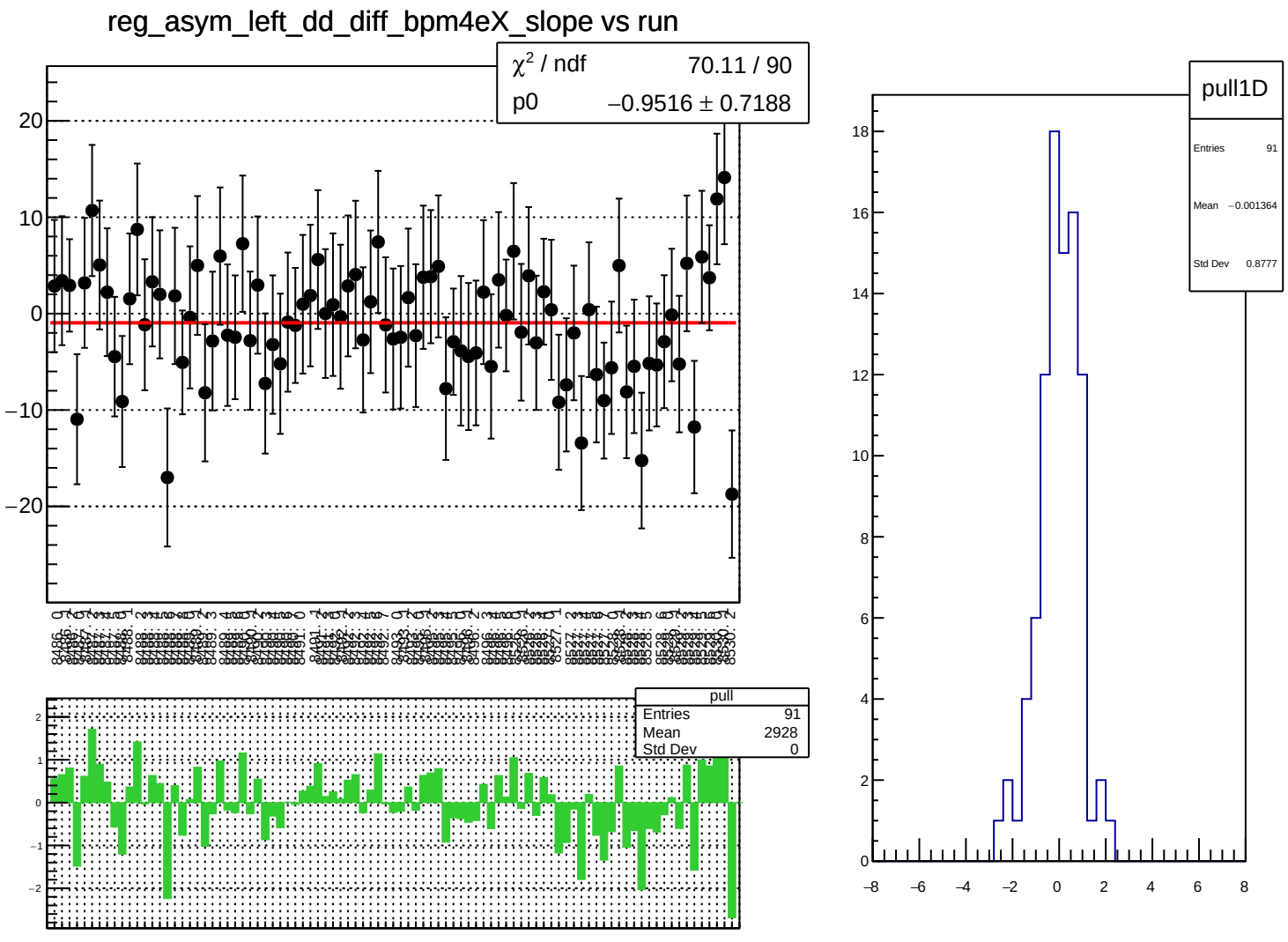

pull1D
Entries 91
Mean 0.006693
Std Dev 0.7936

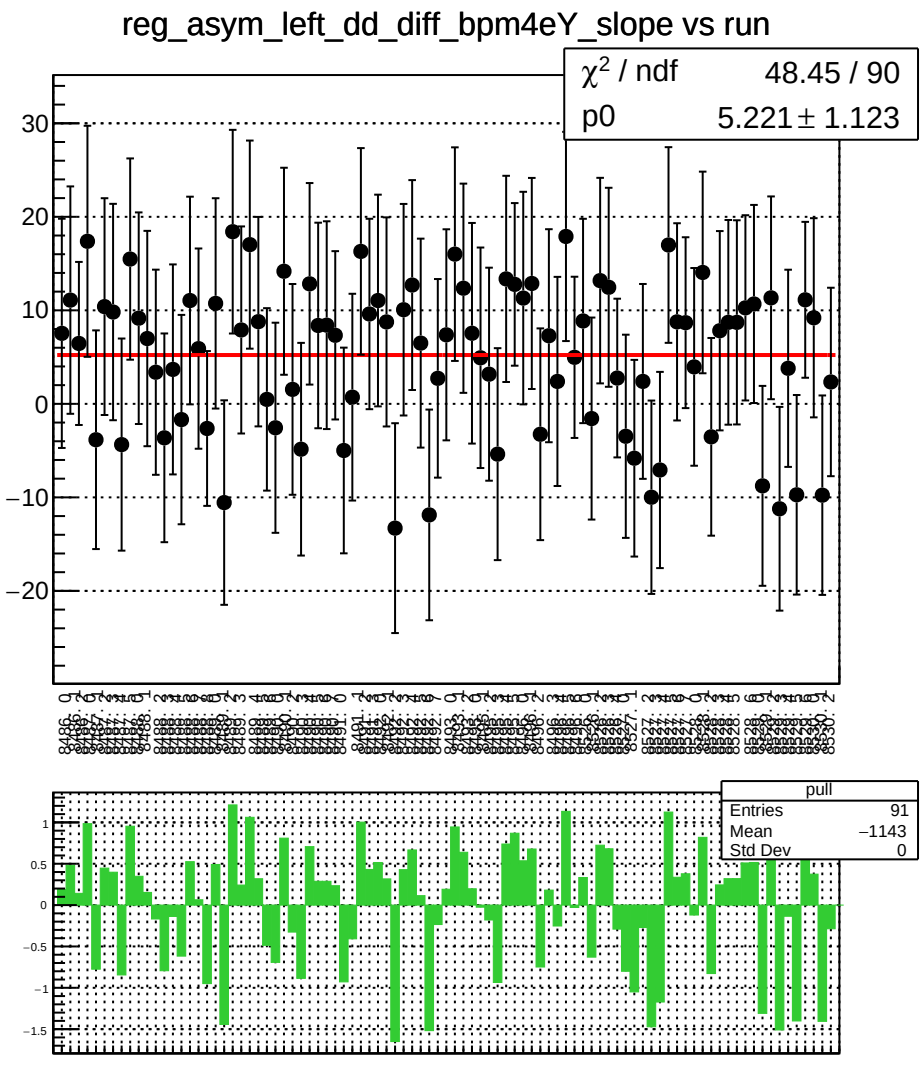

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 67.84 / 90
p0 −33.43 ± 0.662
pull
Entries 91
Mean 301.4
Std Dev 0

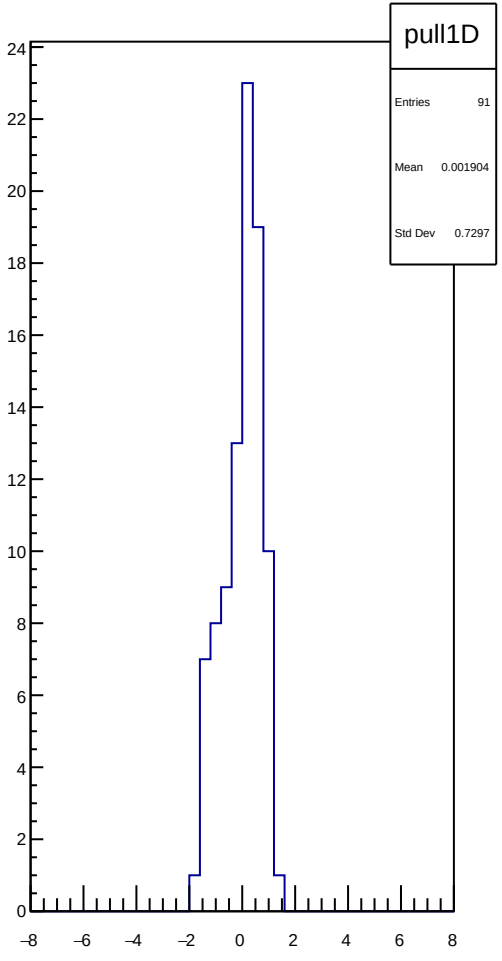

pull1D
Entries 91
Mean 0.006384
Std Dev 0.8634

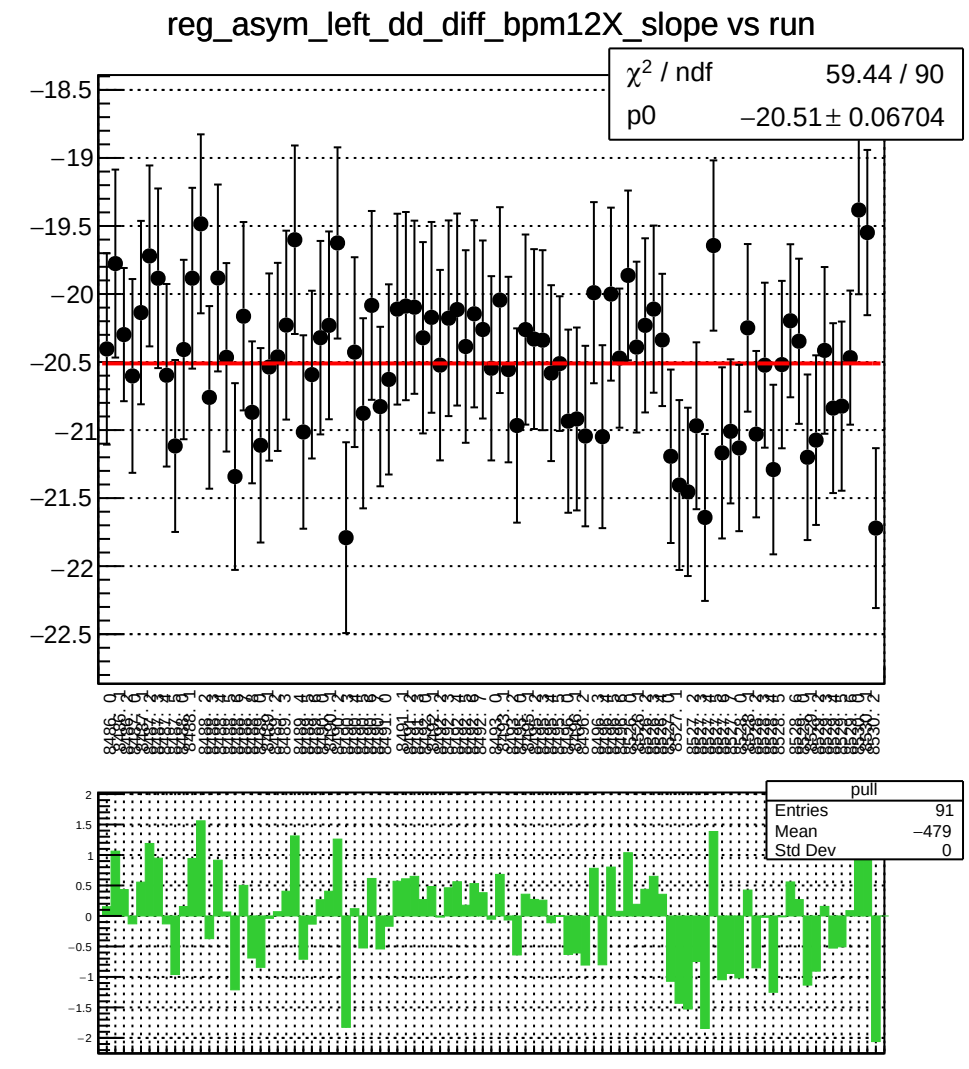

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 48.45 / 90
p0 3.94 ± 1.06
pull
Entries 91
Mean −786.6
Std Dev 0

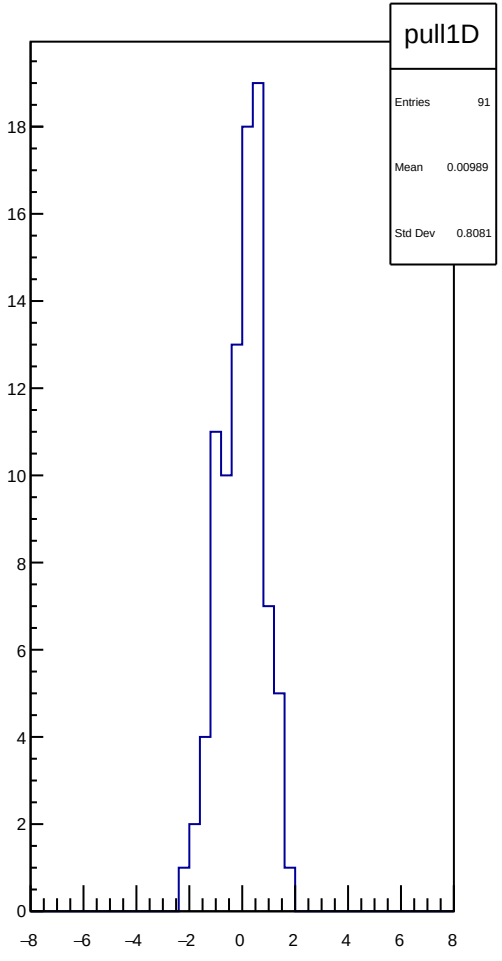

pull1D
Entries 91
Mean −0.003004
Std Dev 0.7297

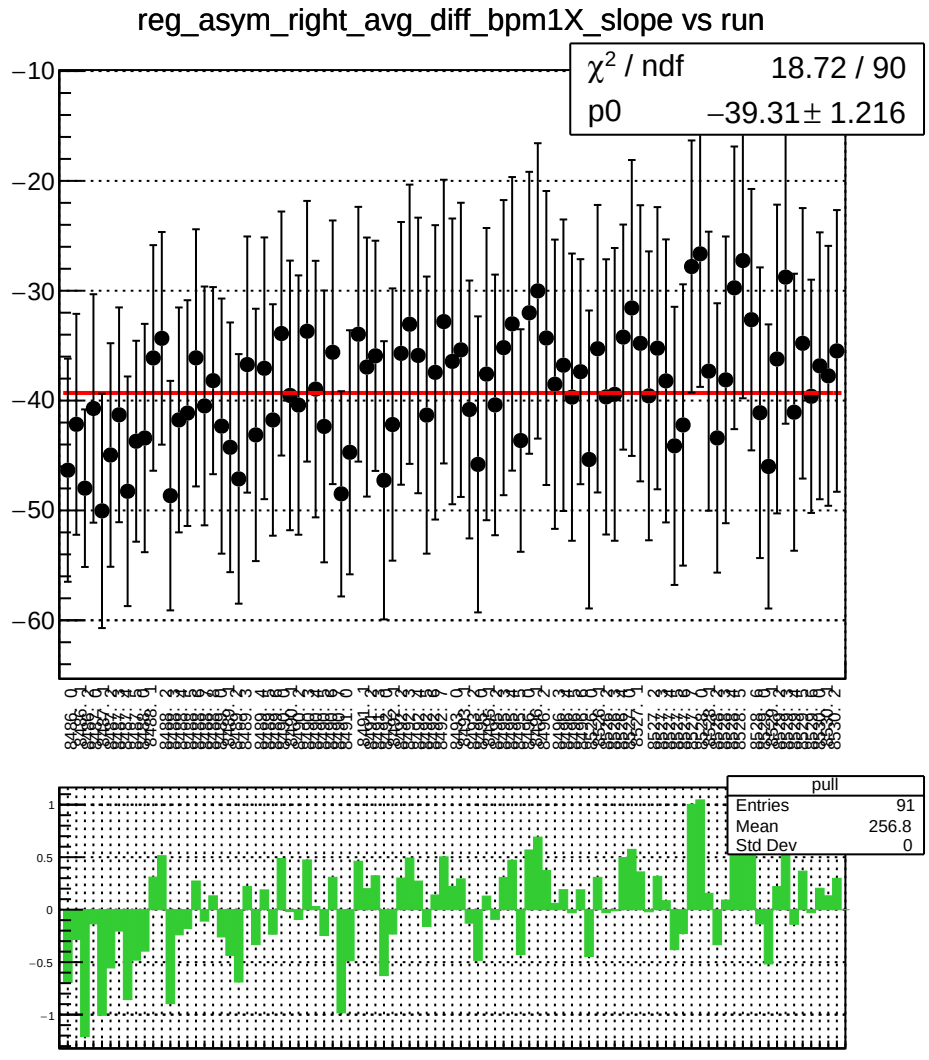

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 70.11 / 90
p0 −0.9516 ± 0.7188
pull
Entries 91
Mean 2928
Std Dev 0
pull1D
Entries 91
Mean −0.001364
Std Dev 0.8777

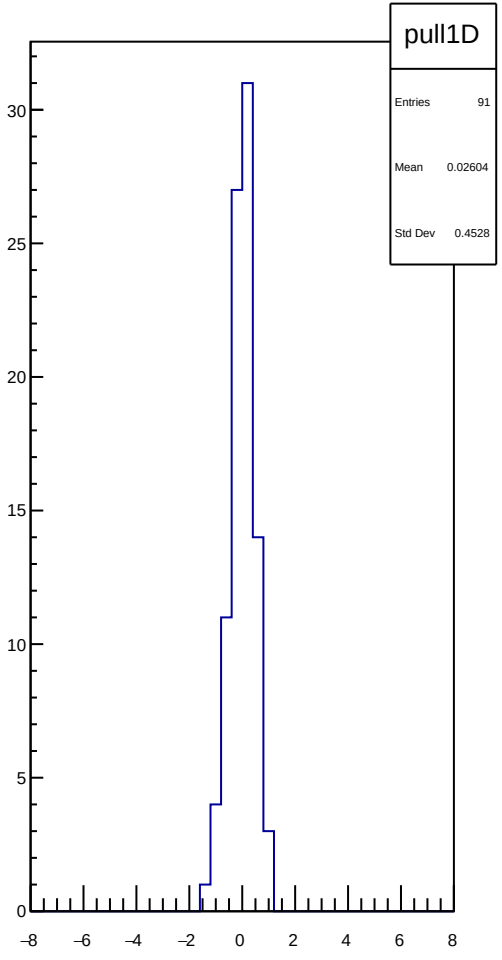

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 48.45 / 90
p0 5.221 ± 1.123
pull
Entries 91
Mean −1143
Std Dev 0

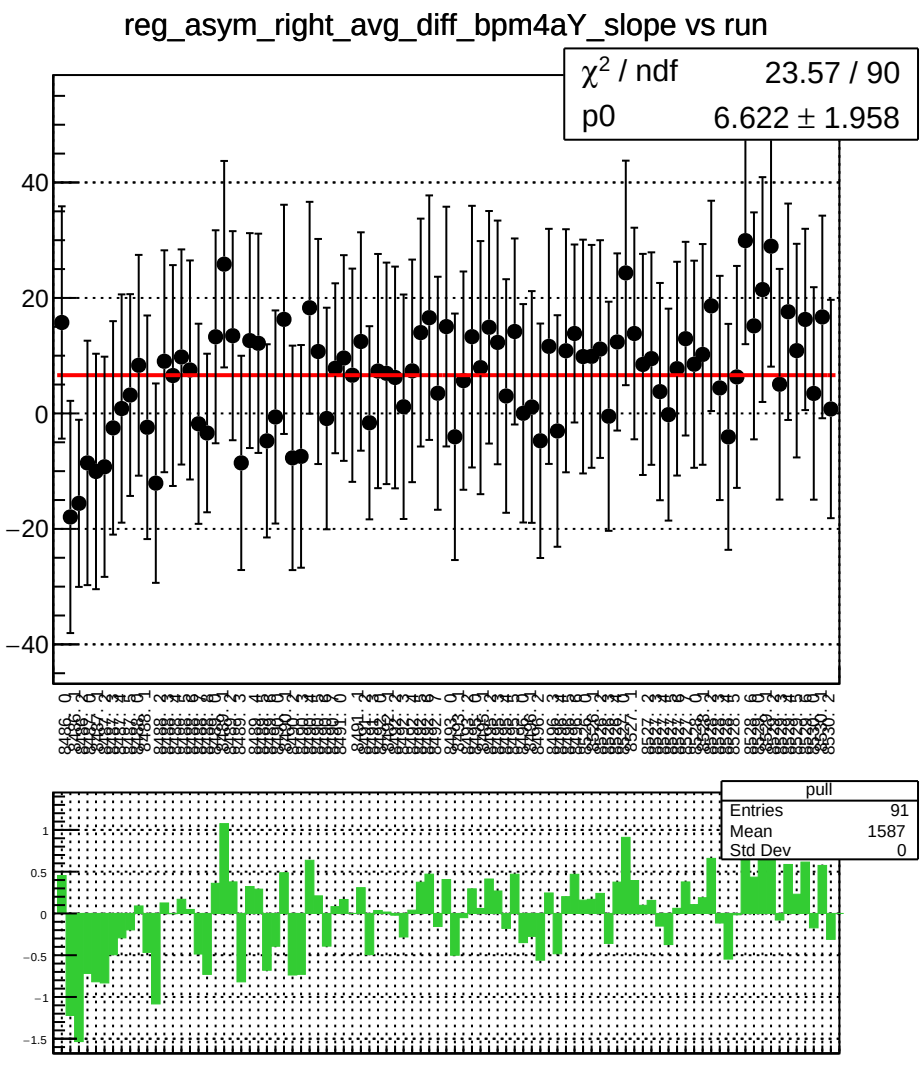

pull1D
Entries 91
Mean 0.001904
Std Dev 0.7297

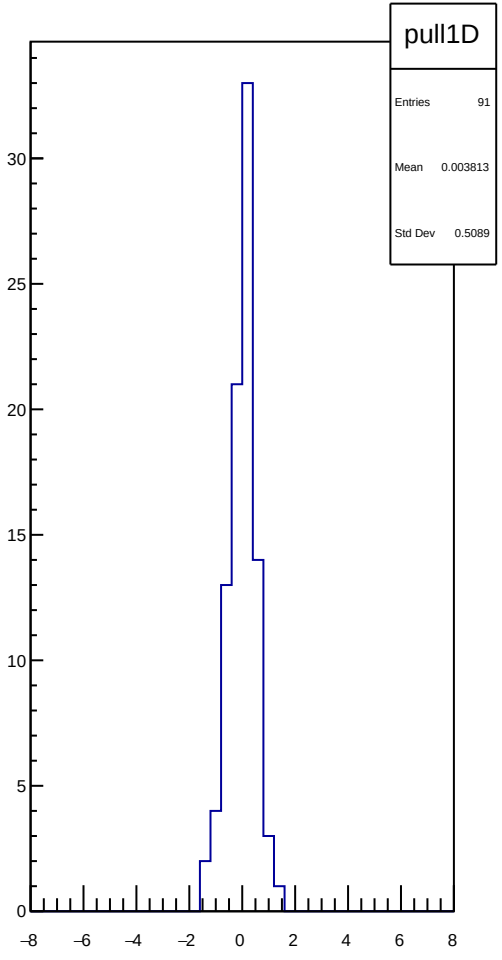

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 59.44 / 90
p0 −20.51 ± 0.06704
pull
Entries 91
Mean −479
Std Dev 0

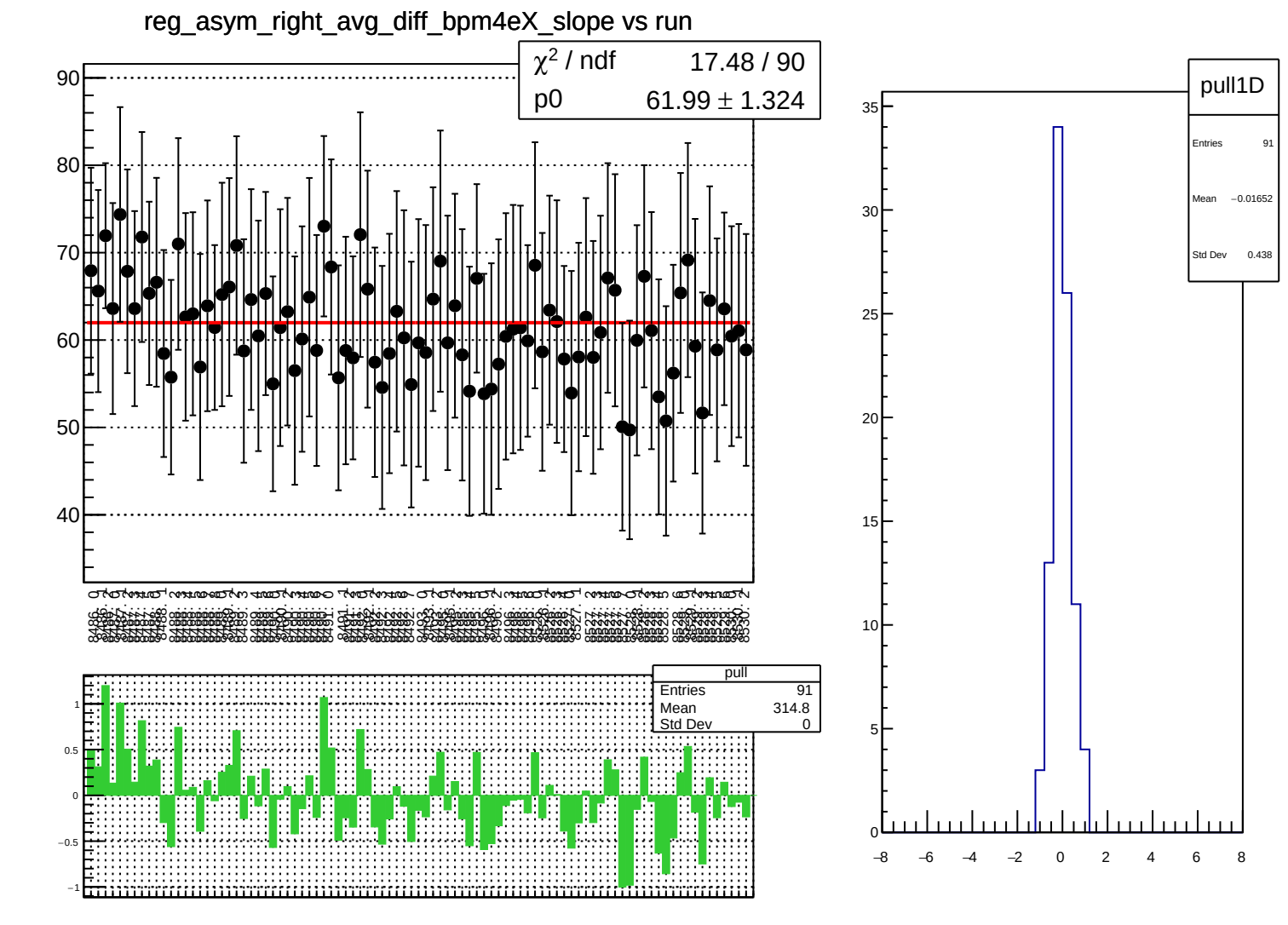

pull1D
Entries 91
Mean 0.00989
Std Dev 0.8081

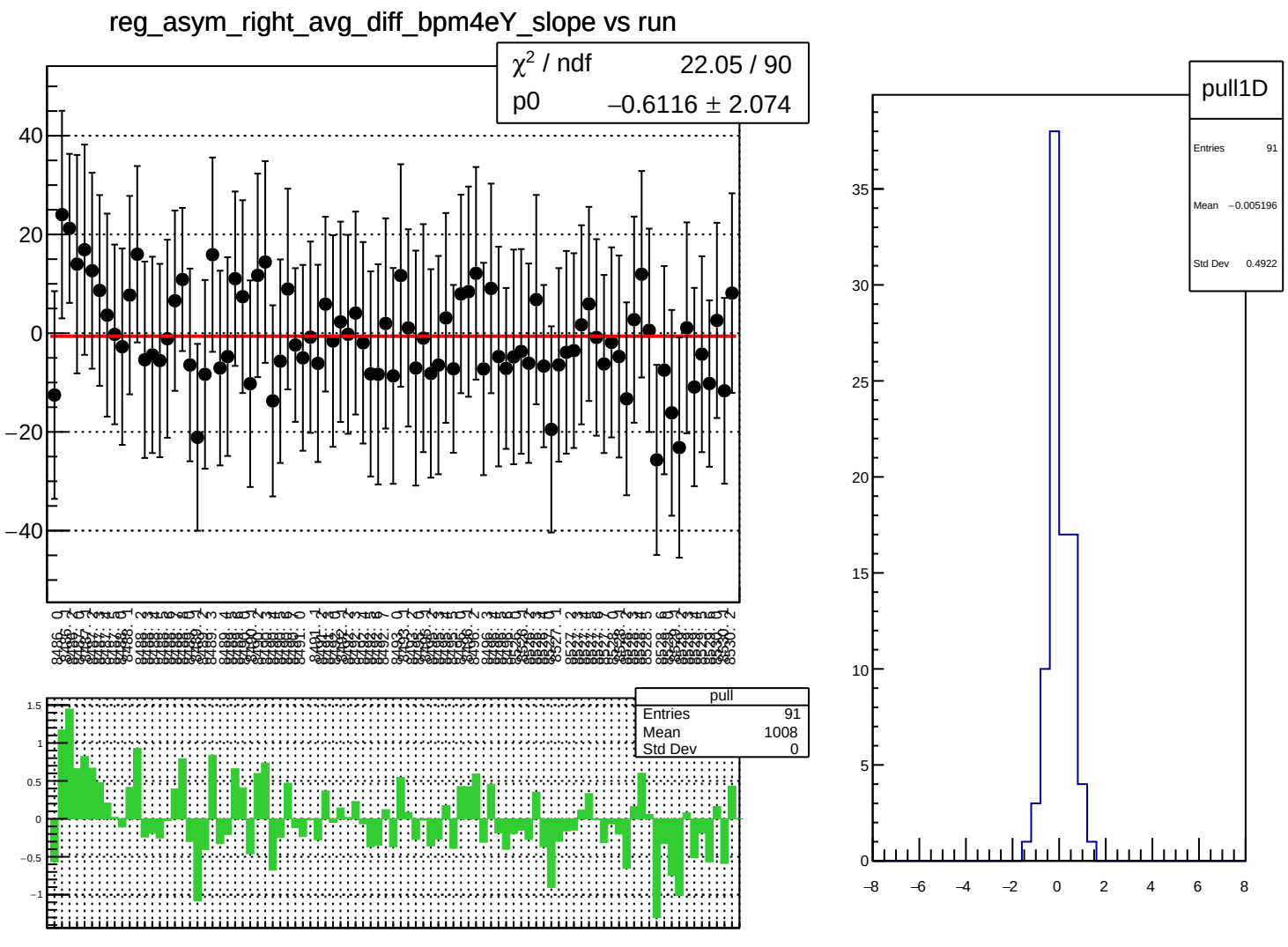

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 18.72 / 90
p0 −39.31 ± 1.216
pull
Entries 91
Mean 256.8
Std Dev 0

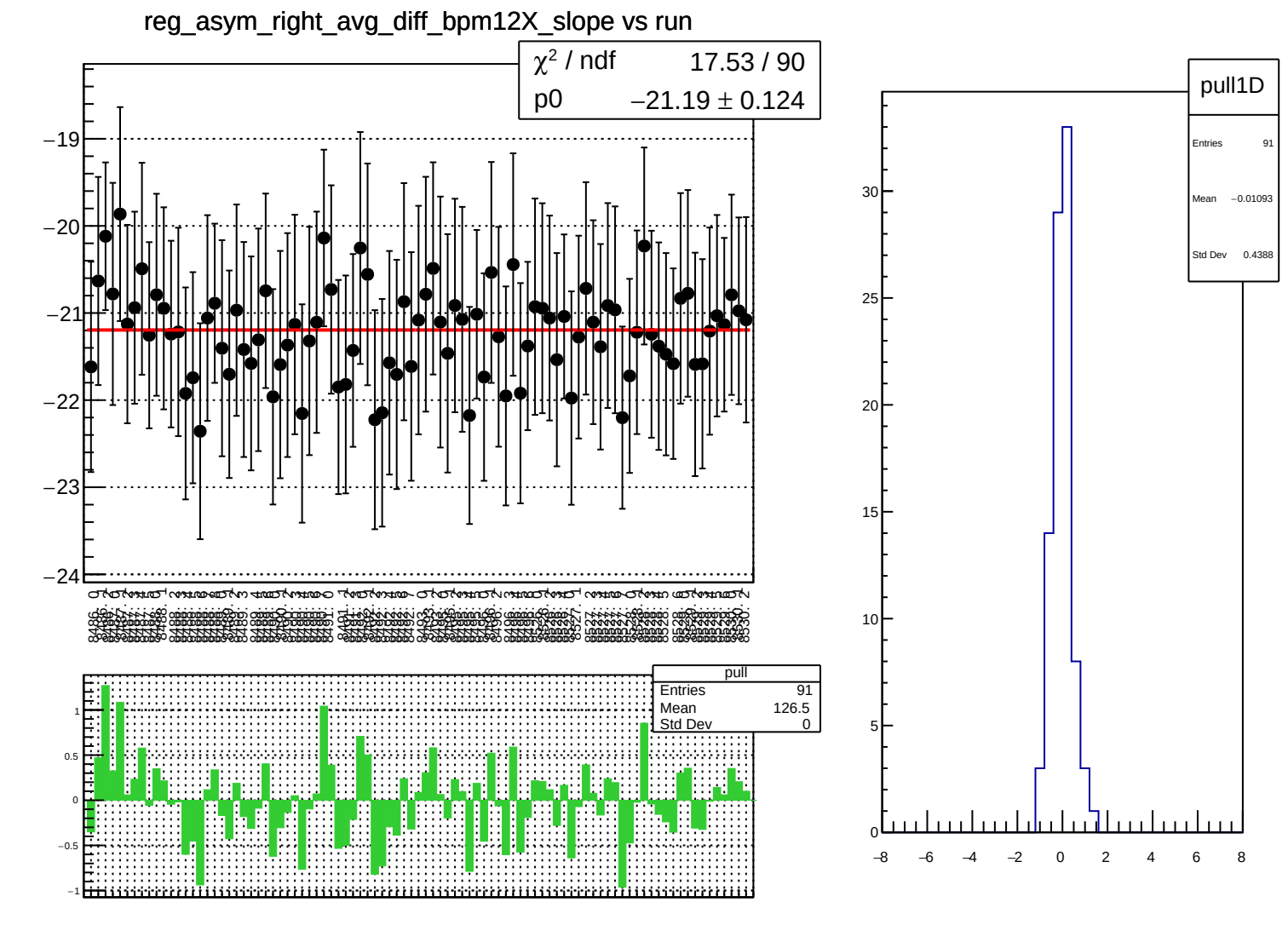

pull1D
Entries 91
Mean 0.02604
Std Dev 0.4528

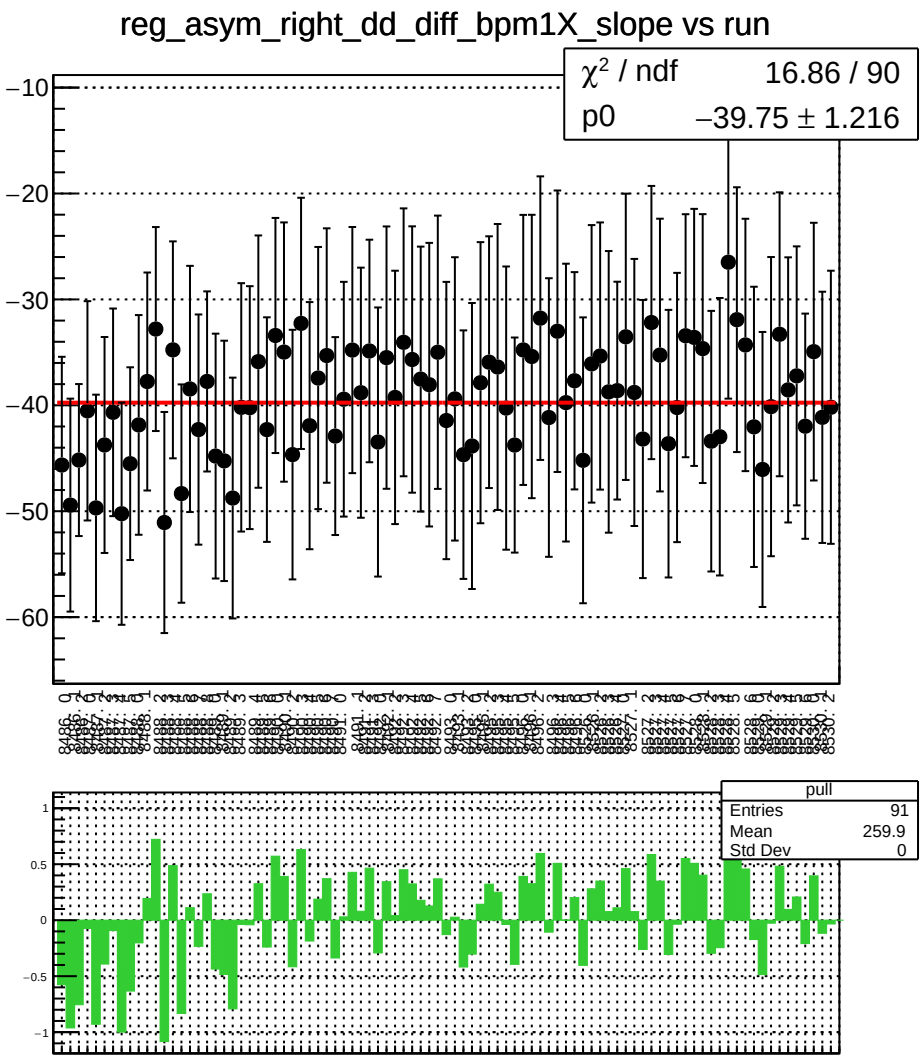

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 23.57 / 90
p0 6.622 ± 1.958
pull
Entries 91
Mean 1587
Std Dev 0

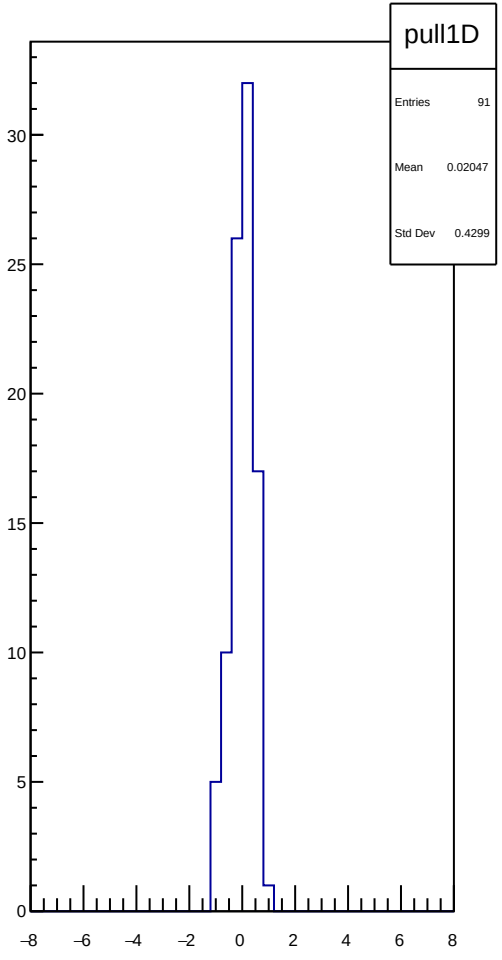

pull1D
Entries 91
Mean 0.003813
Std Dev 0.5089

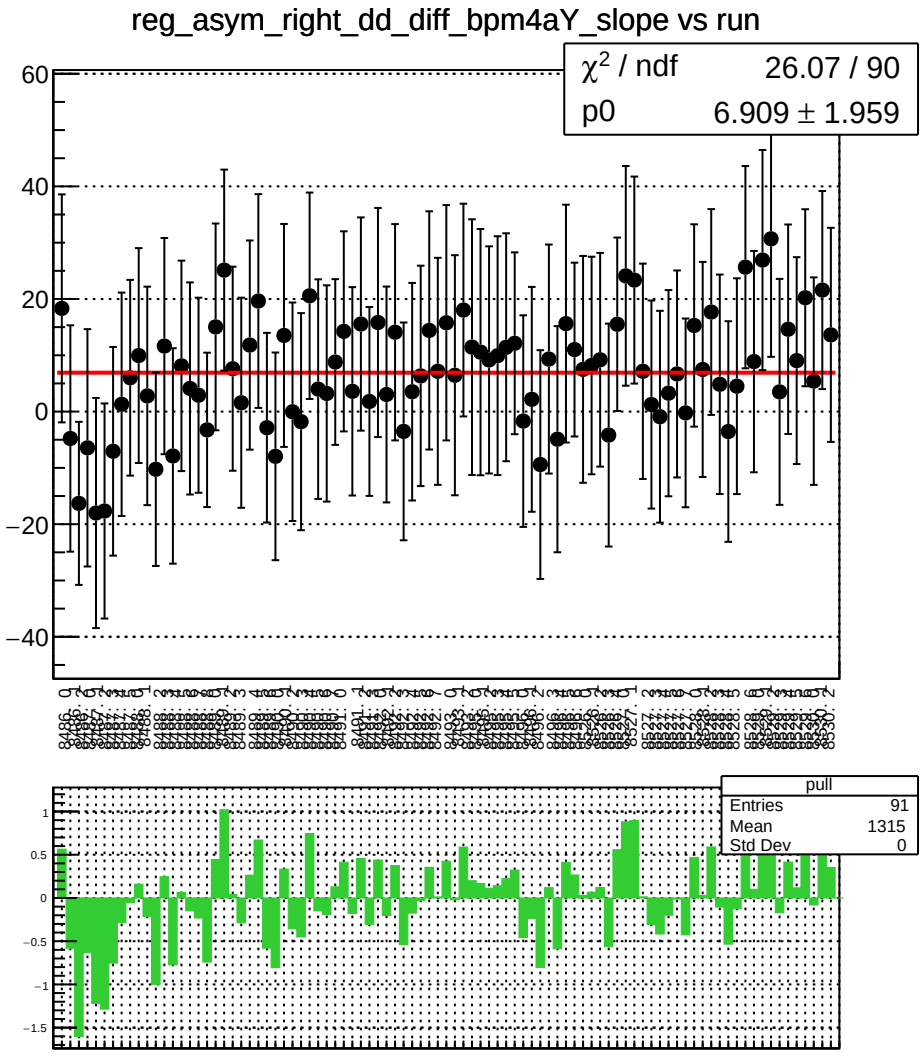

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 17.48 / 90
p0 61.99 ± 1.324
pull
Entries 91
Mean 314.8
Std Dev 0
pull1D
Entries 91
Mean −0.01652
Std Dev 0.438

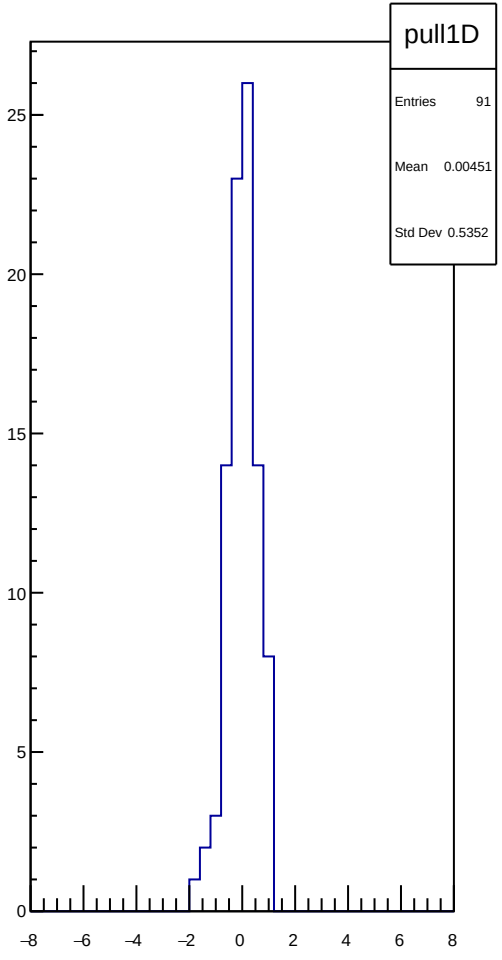

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 22.05 / 90
p0 −0.6116 ± 2.074
pull
Entries 91
Mean 1008
Std Dev 0
pull1D
Entries 91
Mean −0.005196
Std Dev 0.4922

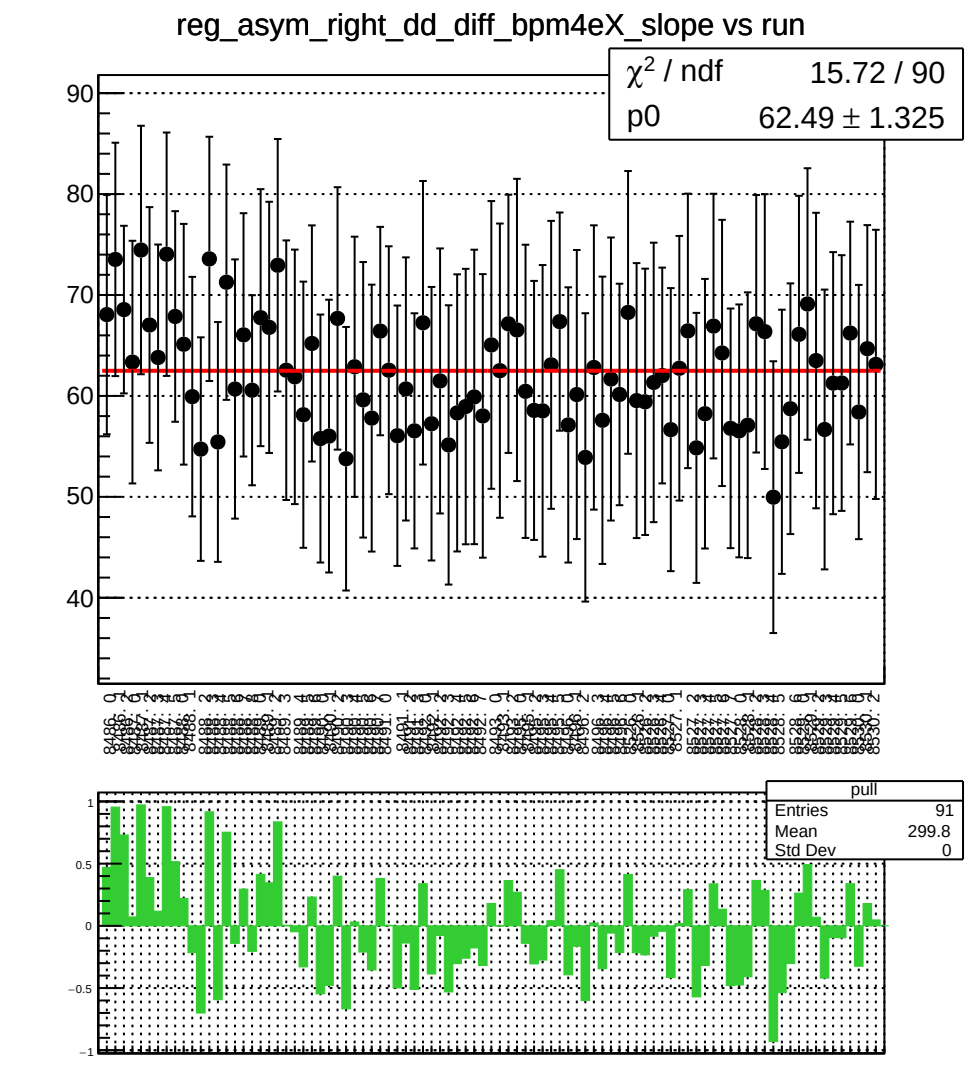

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 17.53 / 90
p0 −21.19 ± 0.124
pull
Entries 91
Mean 126.5
Std Dev 0
pull1D
Entries 91
Mean −0.01093
Std Dev 0.4388

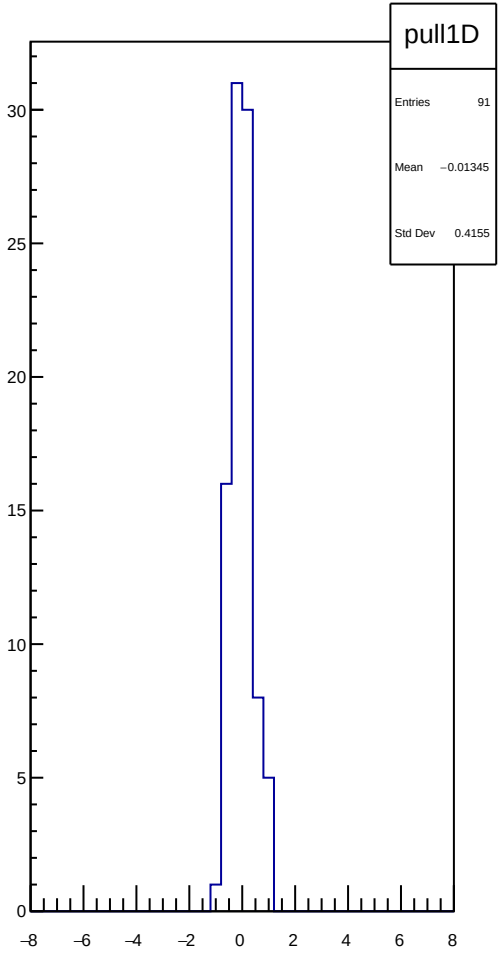

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 16.86 / 90
p0 −39.75 ± 1.216
pull
Entries 91
Mean 259.9
Std Dev 0

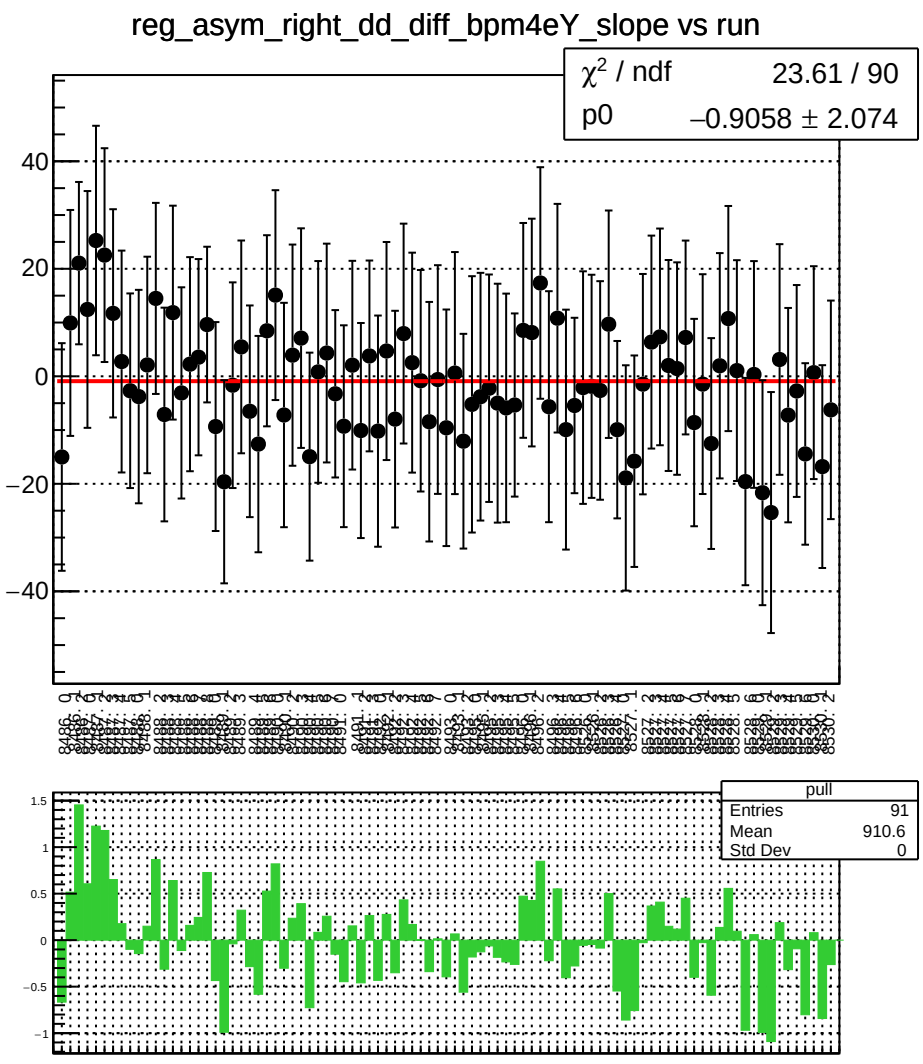

pull1D
Entries 91
Mean 0.02047
Std Dev 0.4299

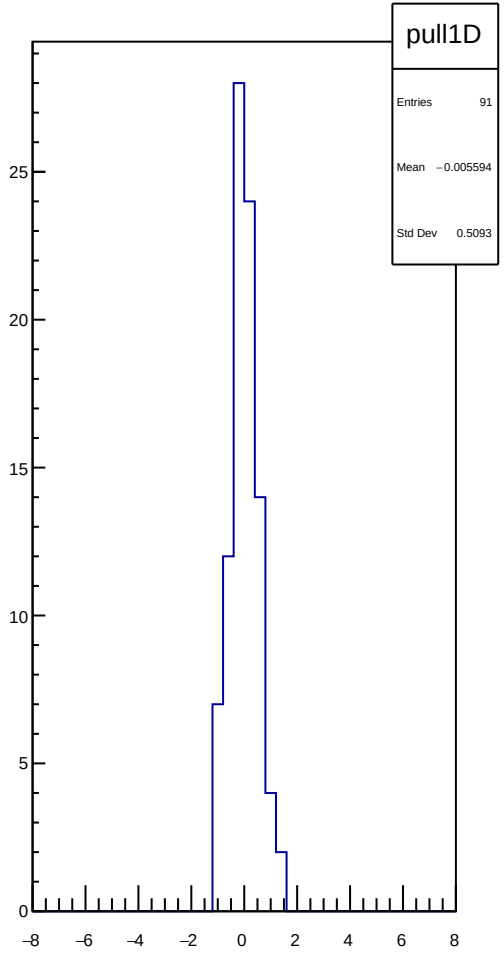

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 26.07 / 90
p0 6.909 ± 1.959
pull
Entries 91
Mean 1315
Std Dev 0

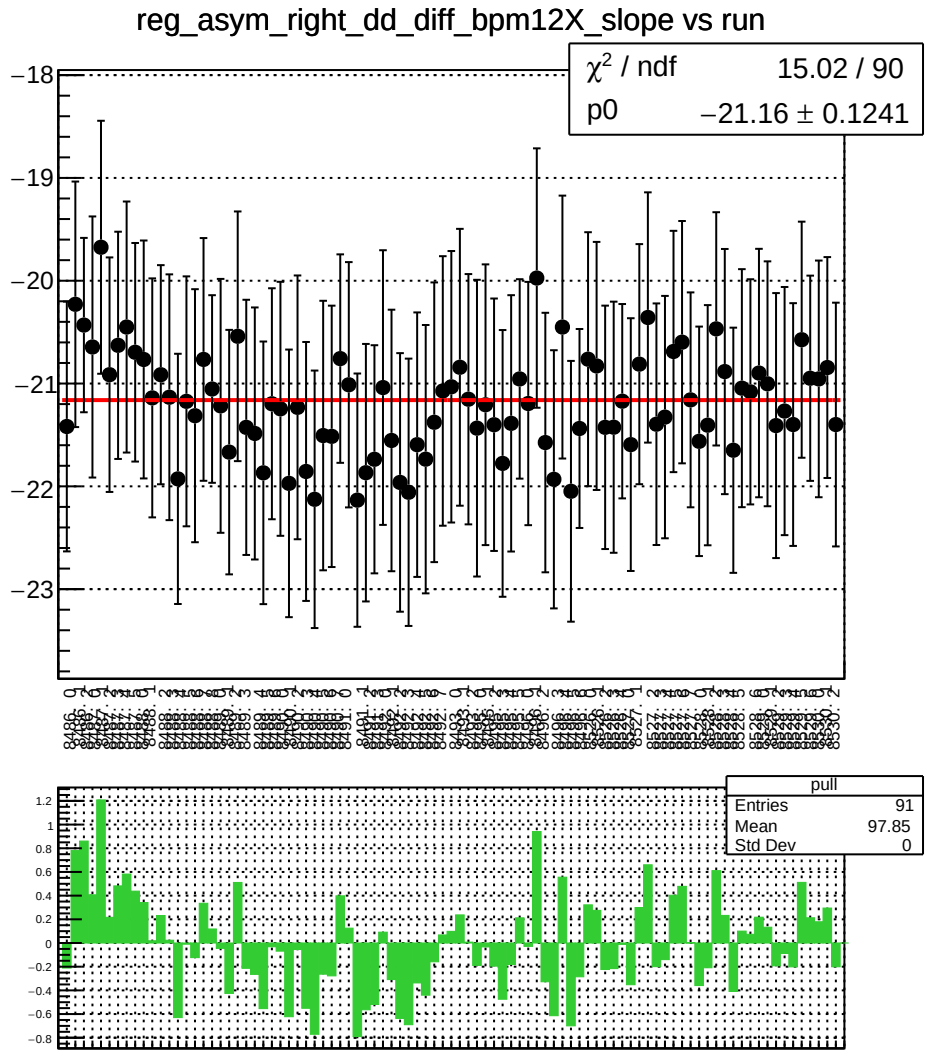

pull1D
Entries 91
Mean 0.00451
Std Dev 0.5352

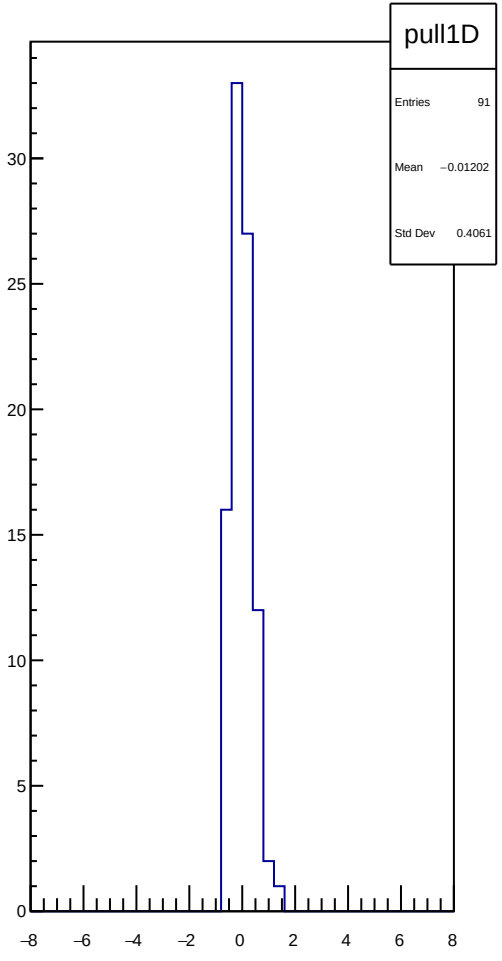

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.72 / 90
p0 62.49 ± 1.325
pull
Entries 91
Mean 299.8
Std Dev 0

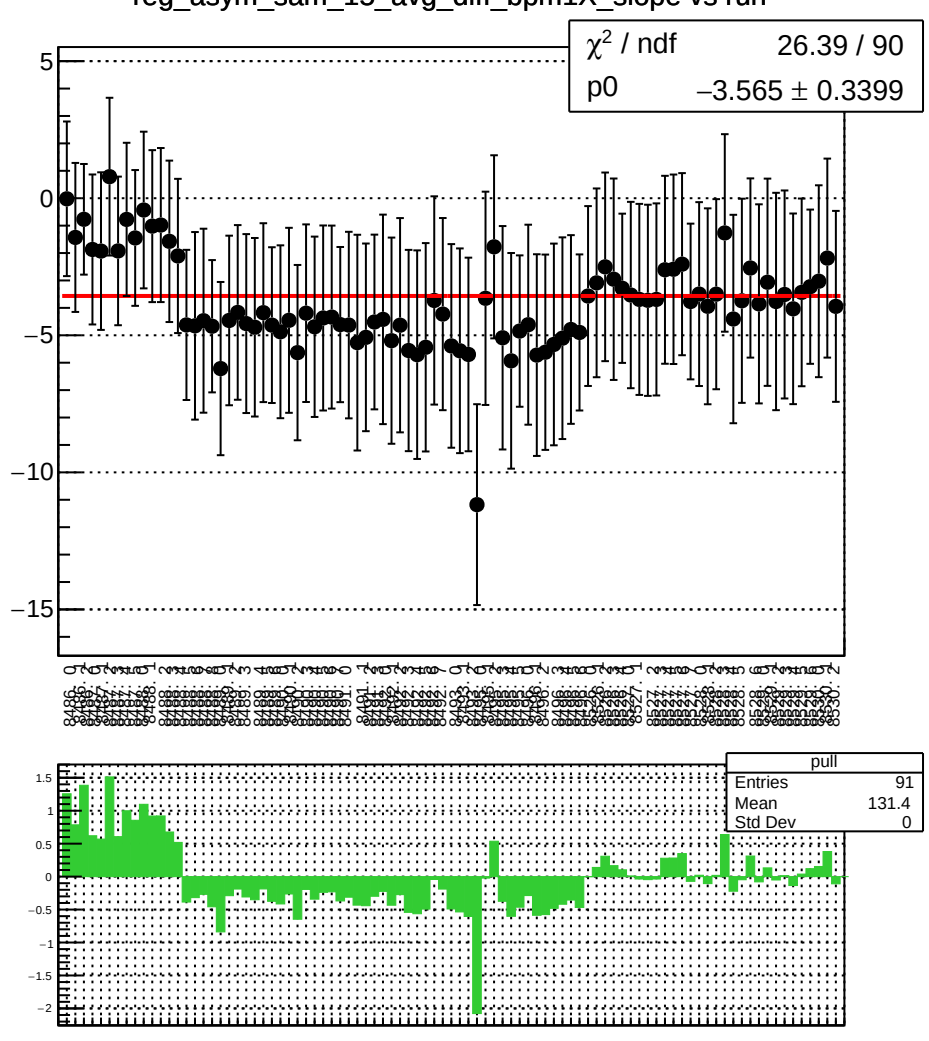

pull1D
Entries 91
Mean −0.01345
Std Dev 0.4155

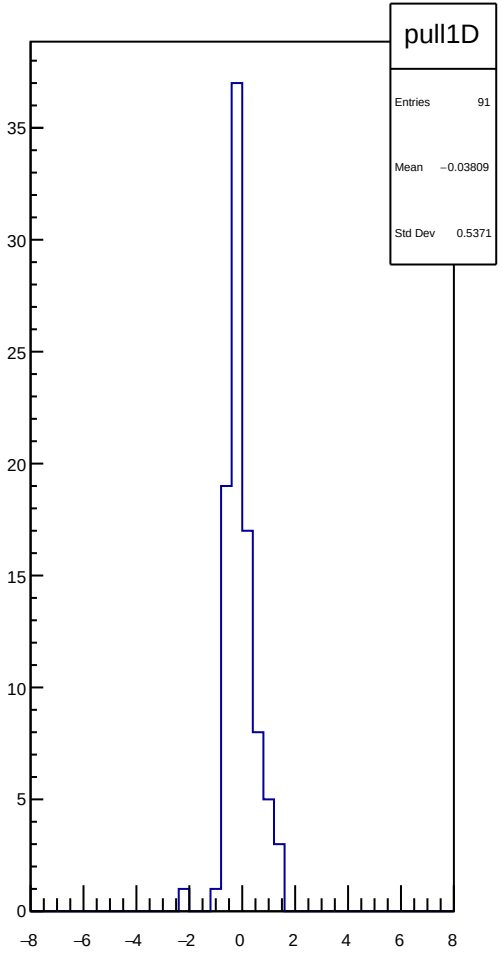

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 23.61 / 90
p0 −0.9058 ± 2.074
40
20
0
−20
−40
pull
Entries 91
Mean 910.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1

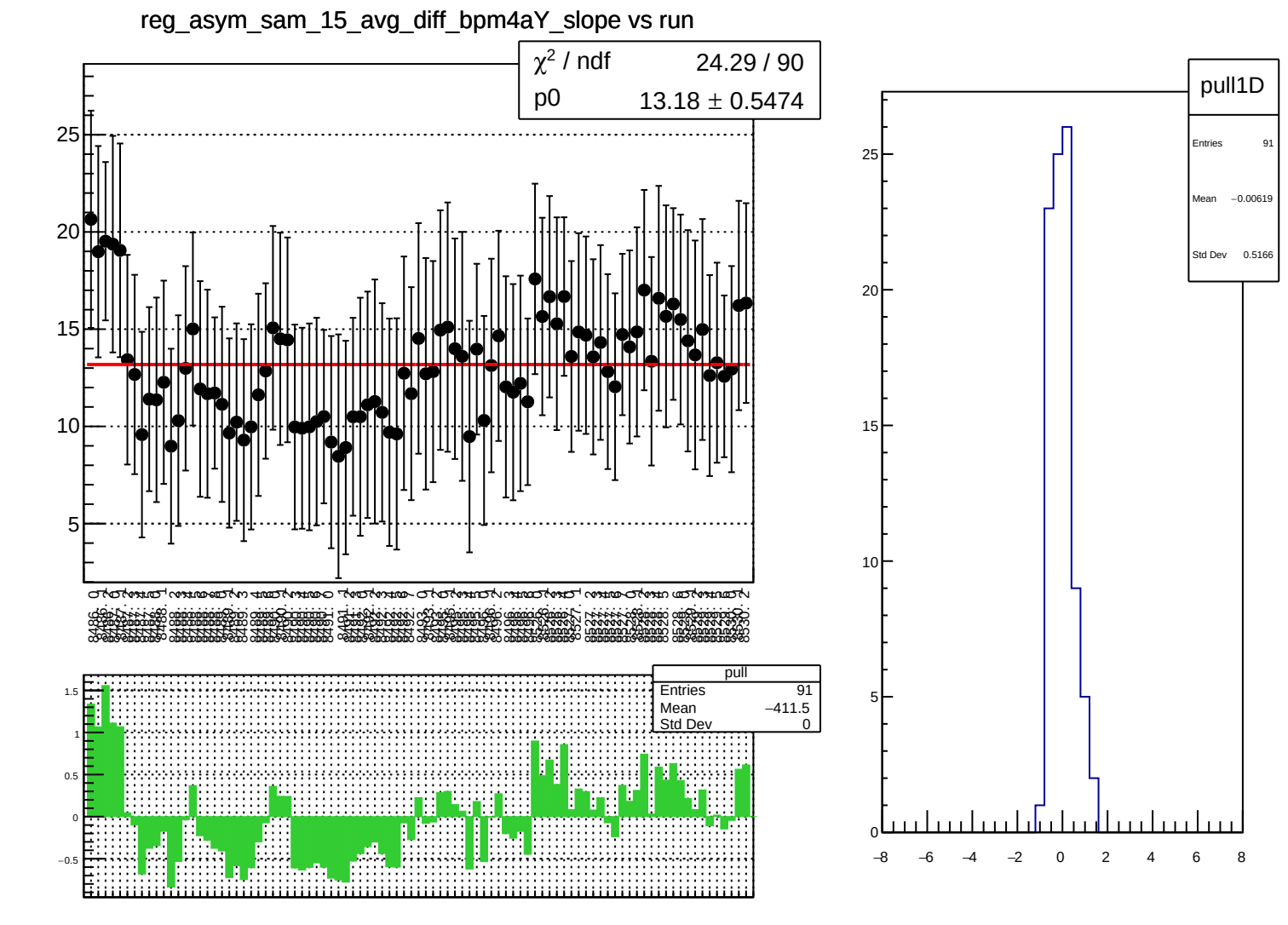

pull1D
Entries 91
Mean −0.005594
Std Dev 0.5093
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

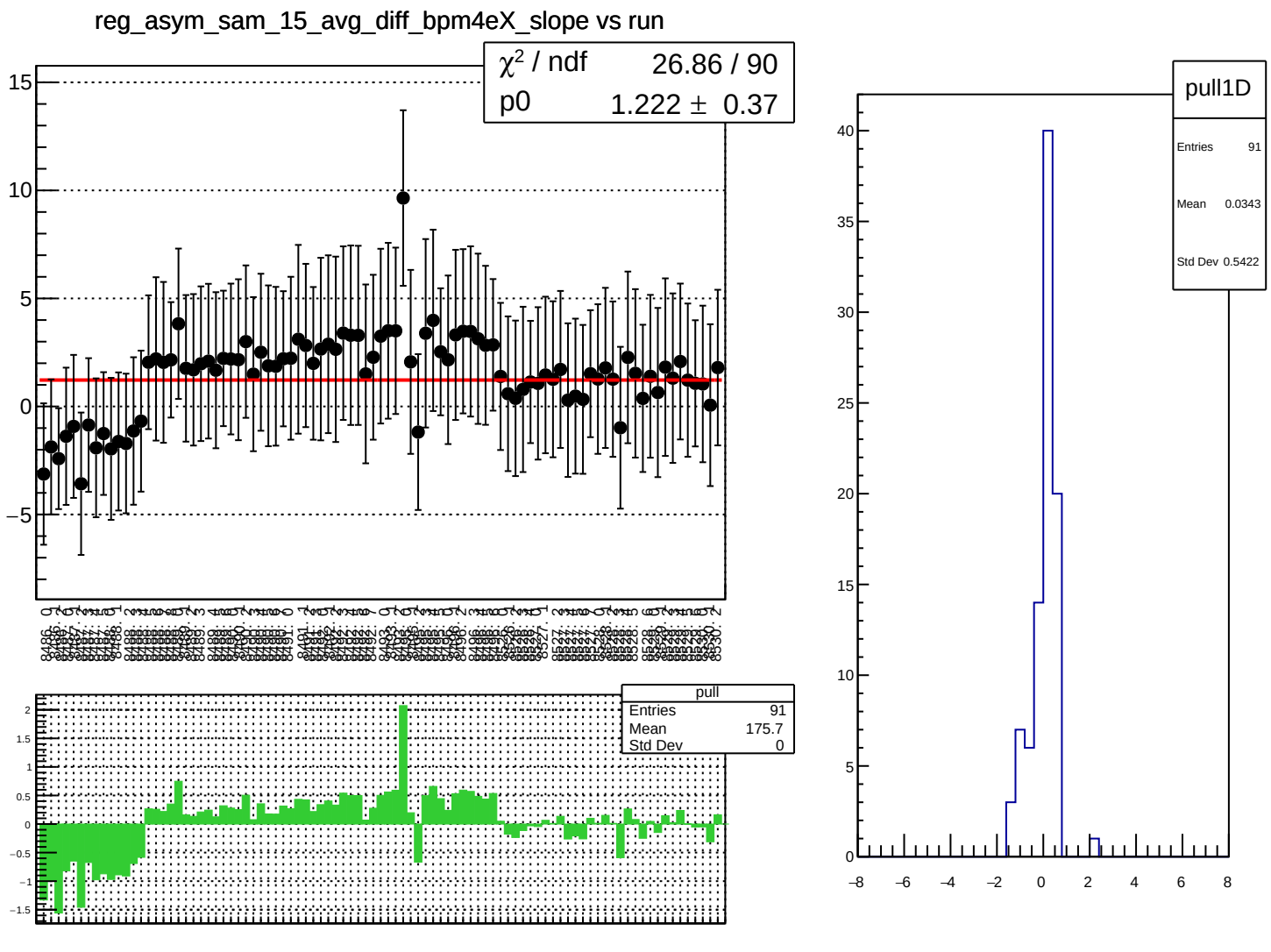

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 15.02 / 90
p0 −21.16 ± 0.1241
pull
Entries 91
Mean 97.85
Std Dev 0

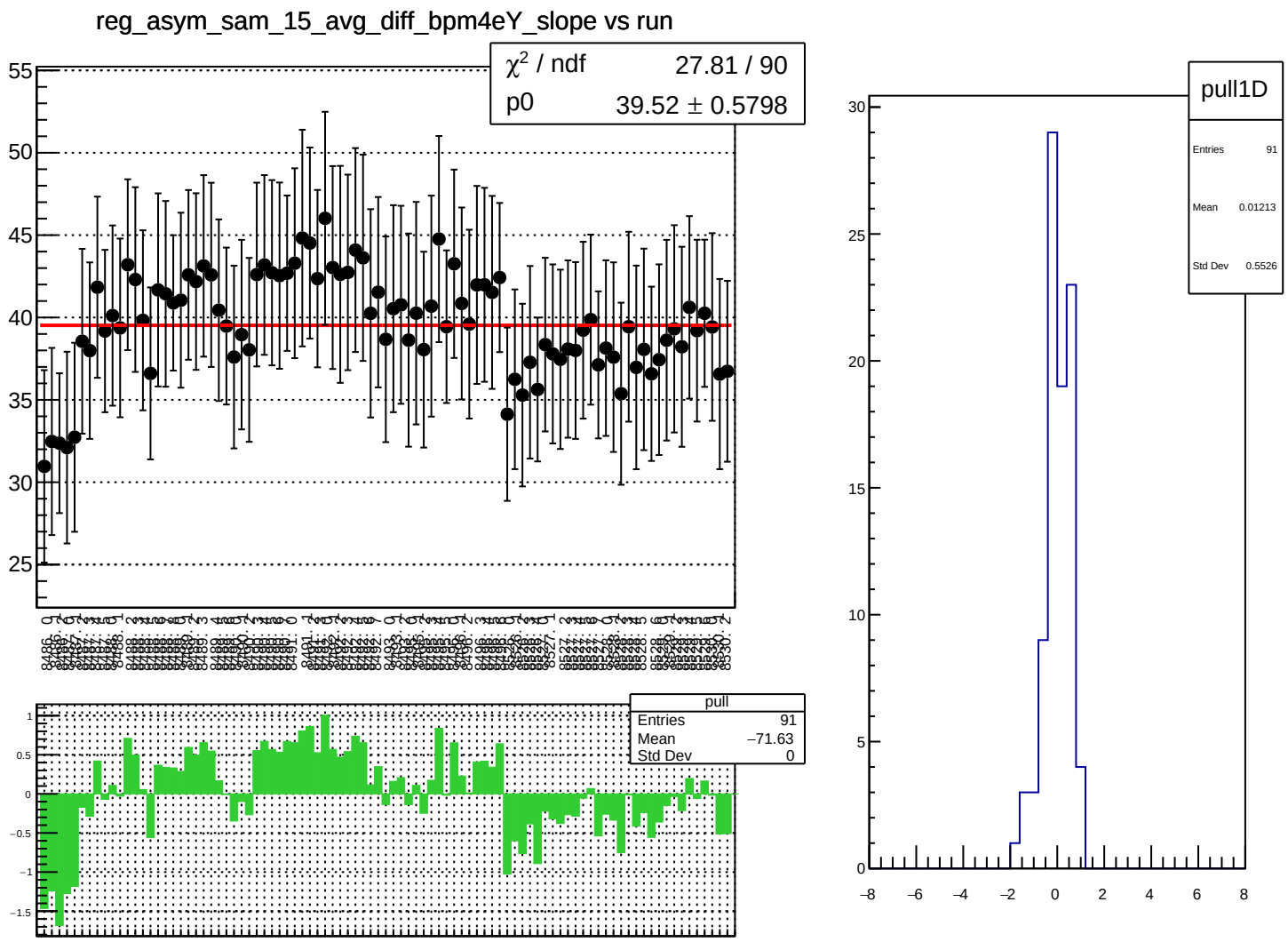

pull1D
Entries 91
Mean −0.01202
Std Dev 0.4061

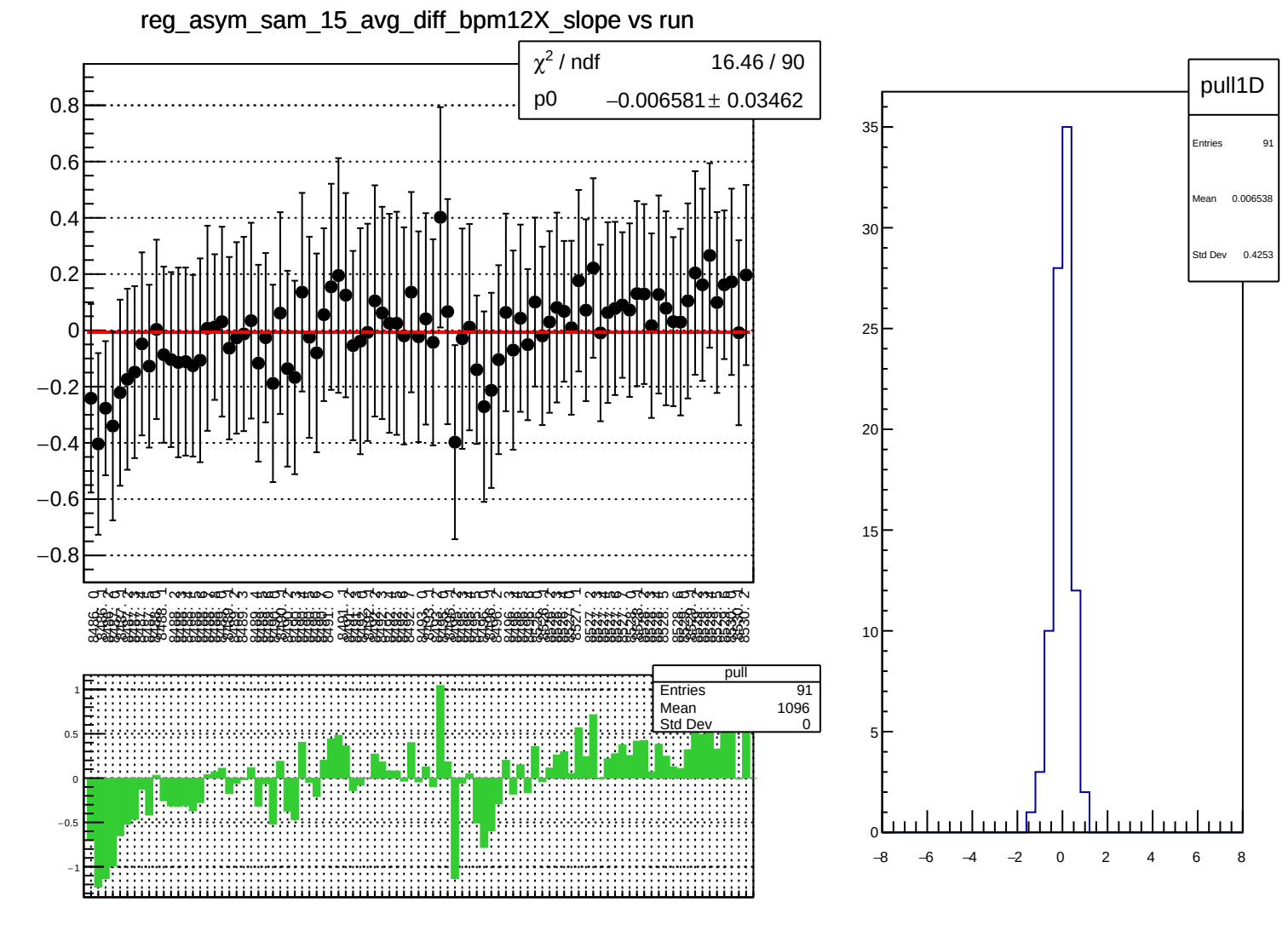

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 26.39 / 90
p0 −3.565 ± 0.3399
pull
Entries 91
Mean 131.4
Std Dev 0

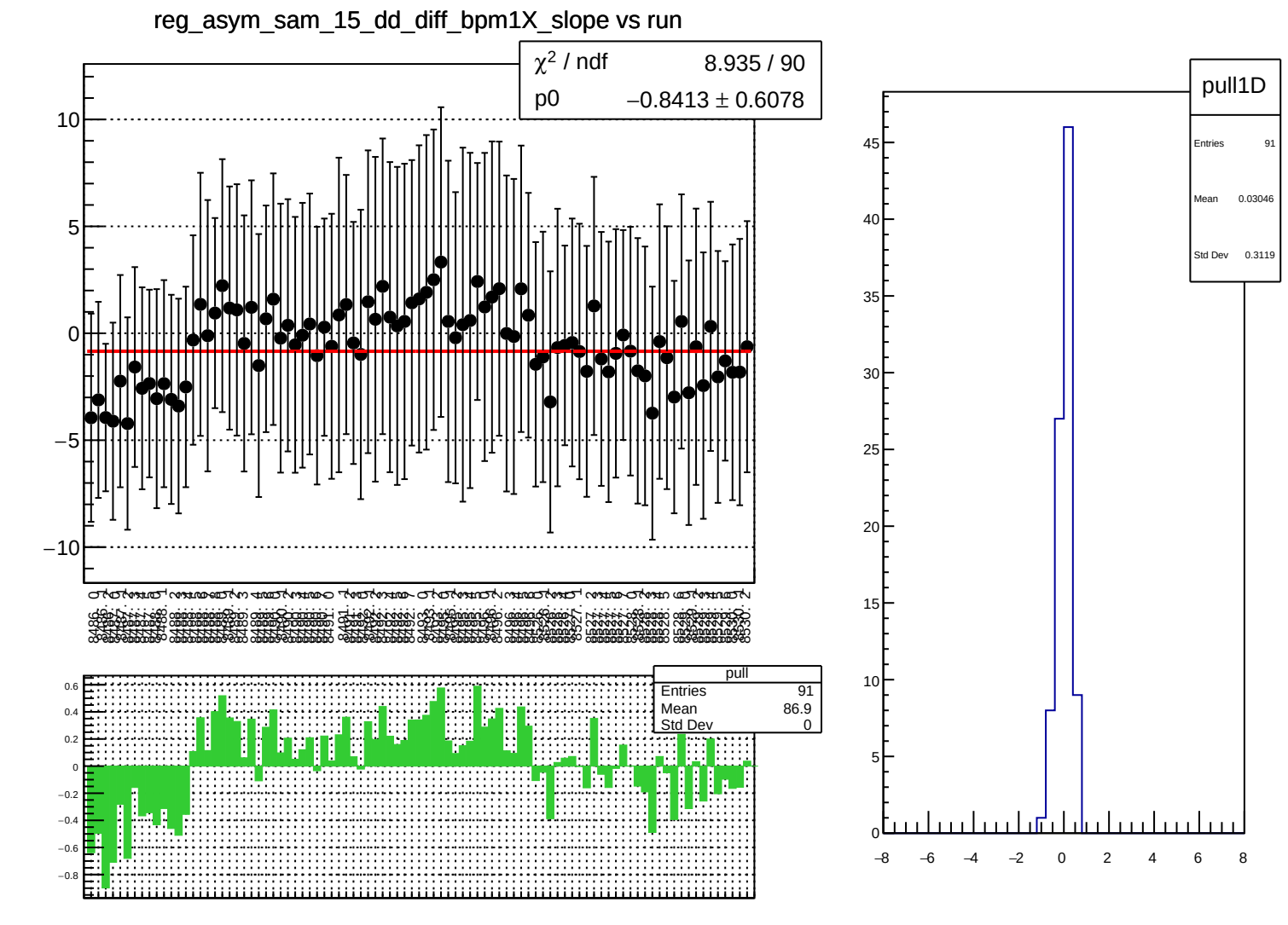

pull1D
Entries 91
Mean −0.03809
Std Dev 0.5371

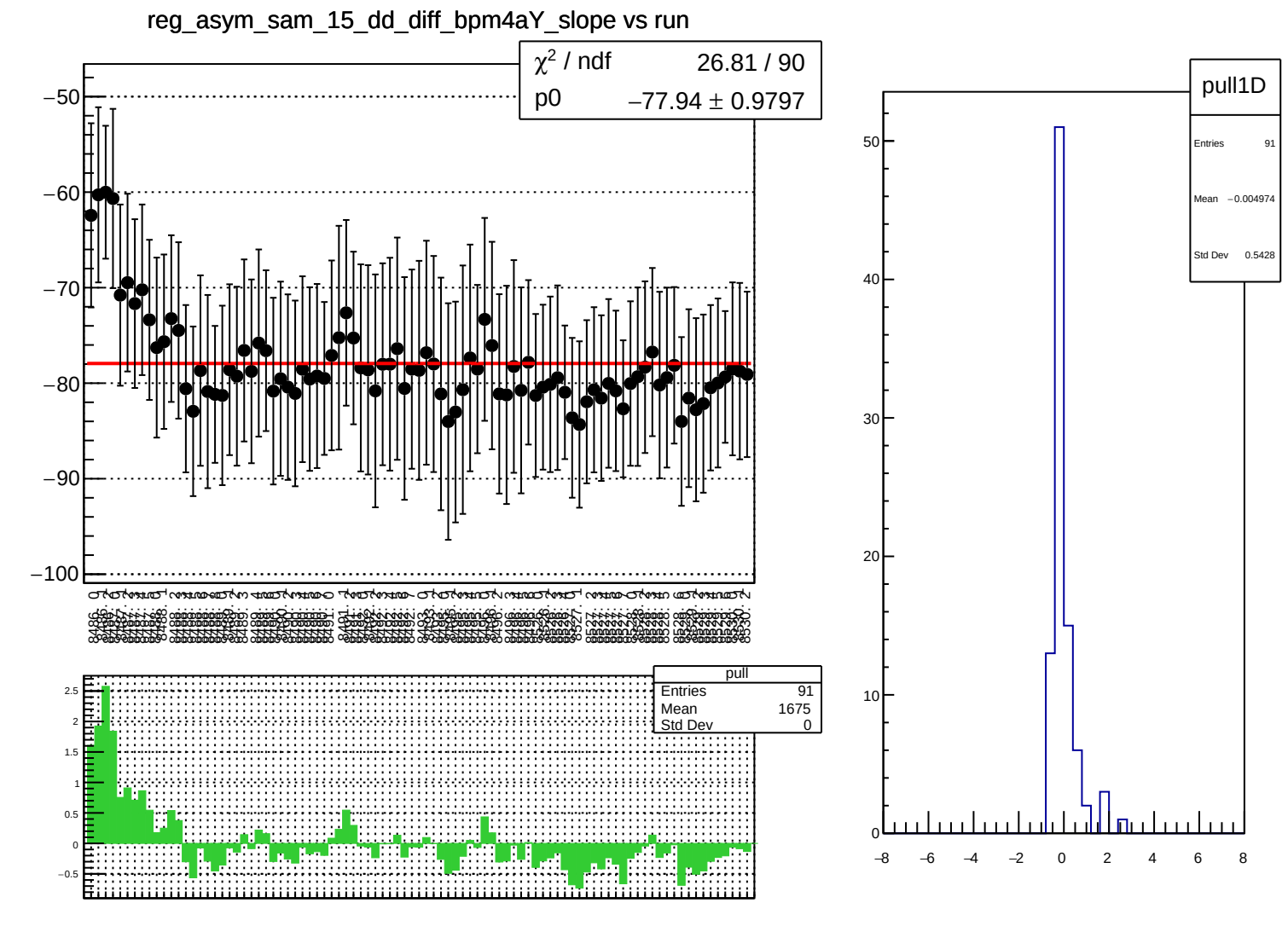

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 24.29 / 90
p0 13.18 ± 0.5474
pull
Entries 91
Mean −411.5
Std Dev 0
pull1D
Entries 91
Mean −0.00619
Std Dev 0.5166

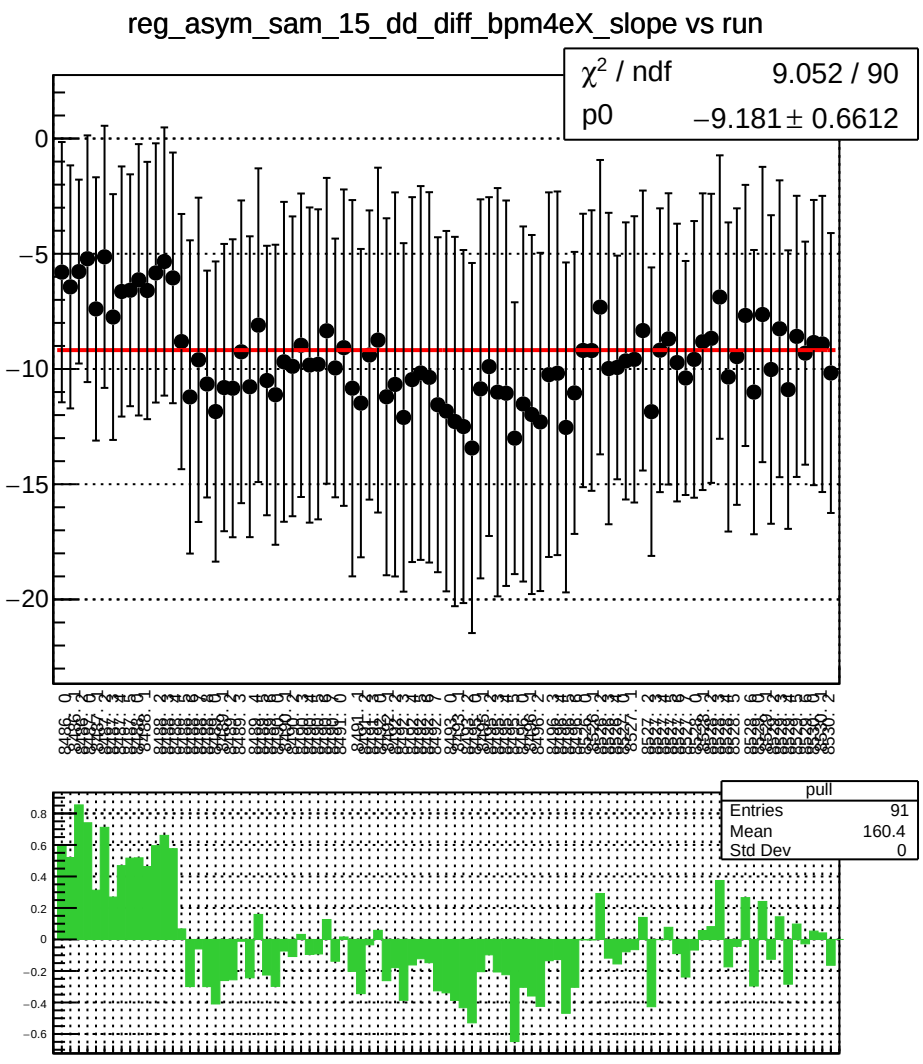

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 26.86 / 90
p0 1.222 ± 0.37
pull
Entries 91
Mean 175.7
Std Dev 0
pull1D
Entries 91
Mean 0.0343
Std Dev 0.5422

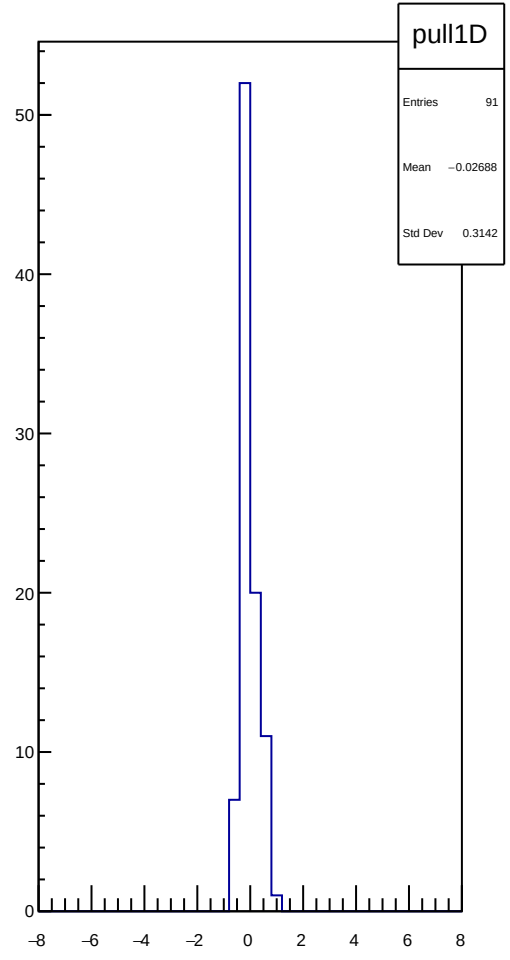

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 27.81 / 90
p0 39.52 ± 0.5798
pull
Entries 91
Mean −71.63
Std Dev 0
pull1D
Entries 91
Mean 0.01213
Std Dev 0.5526

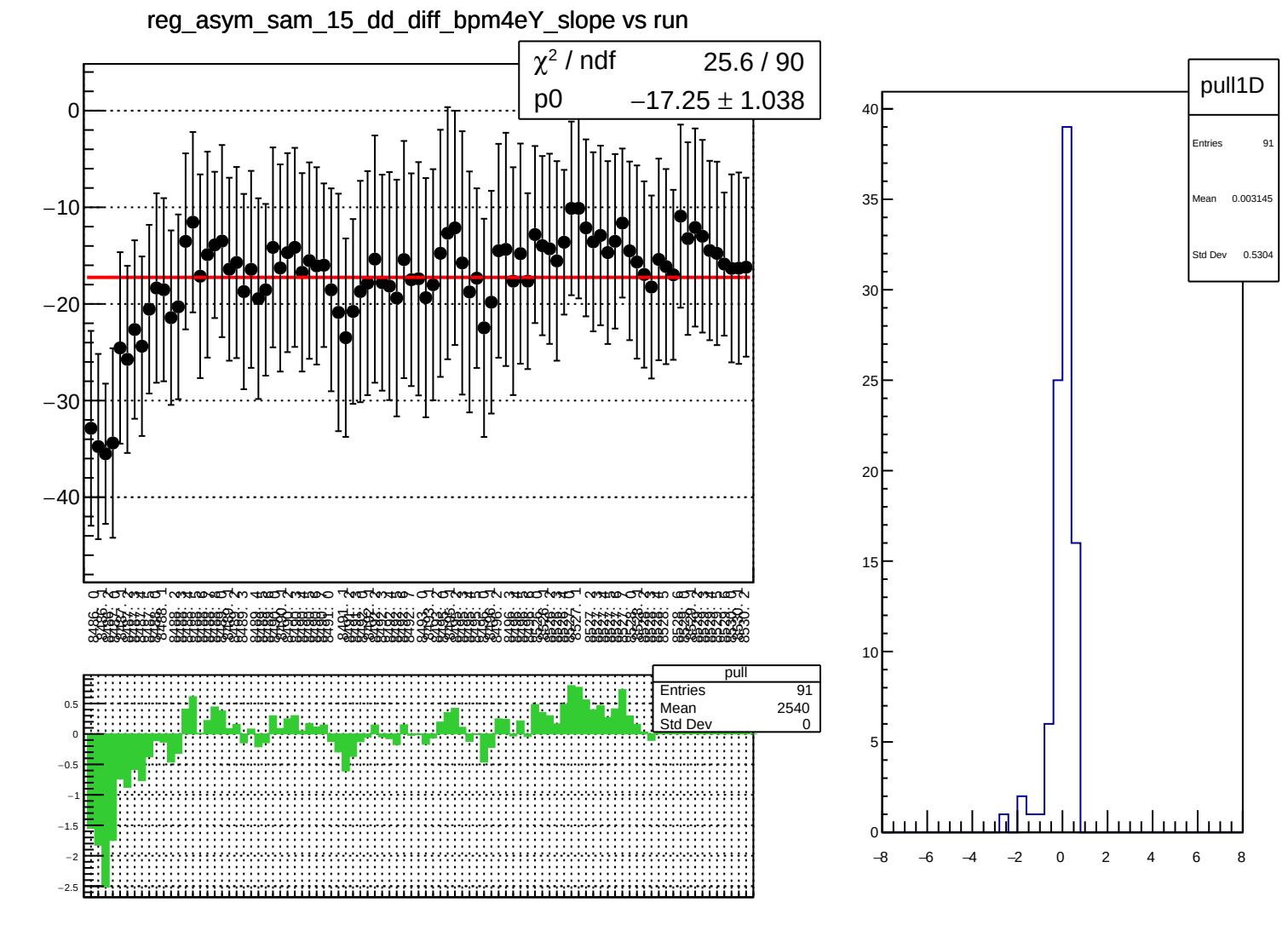

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 16.46 / 90
p0 −0.006581 ± 0.03462
pull
Entries 91
Mean 1096
Std Dev 0
pull1D
Entries 91
Mean 0.006538
Std Dev 0.4253

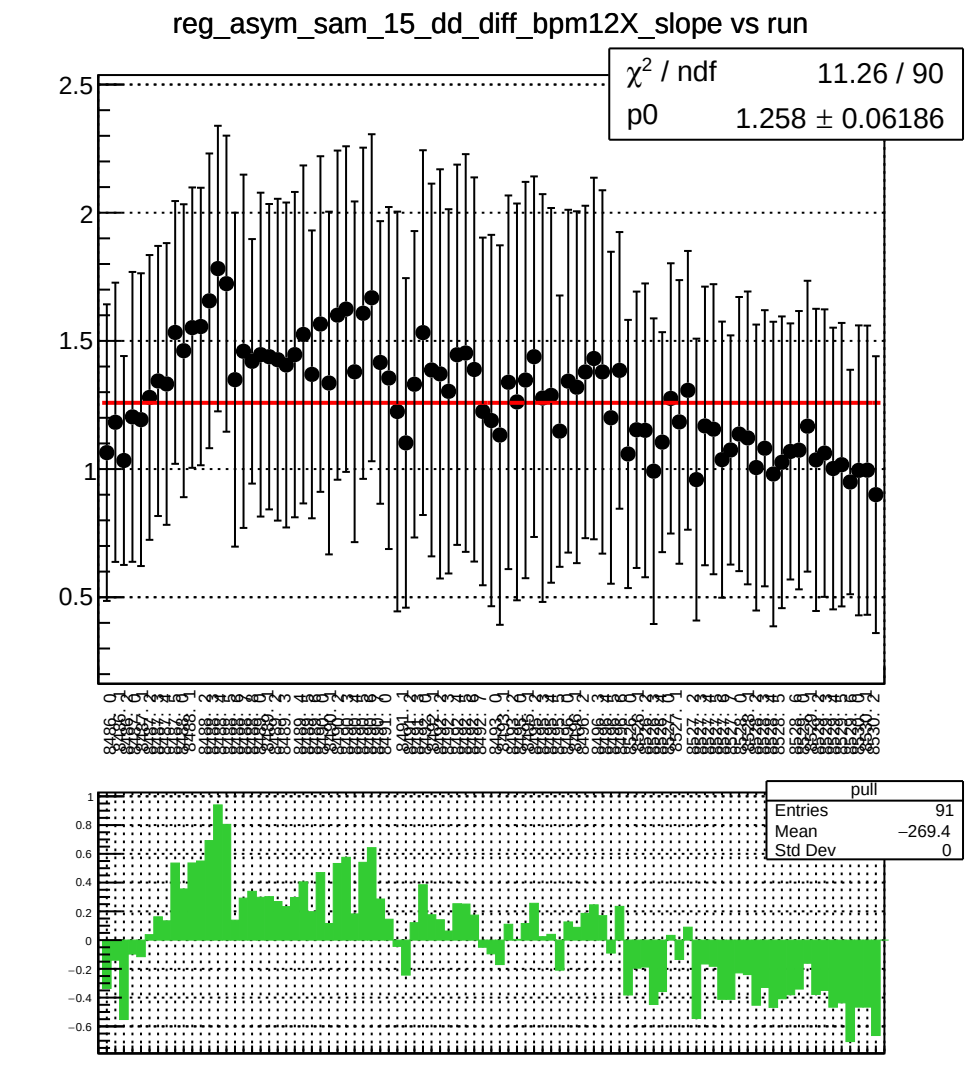

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 8.935 / 90
p0 −0.8413 ± 0.6078
pull
Entries 91
Mean 86.9
Std Dev 0
pull1D
Entries 91
Mean 0.03046
Std Dev 0.3119

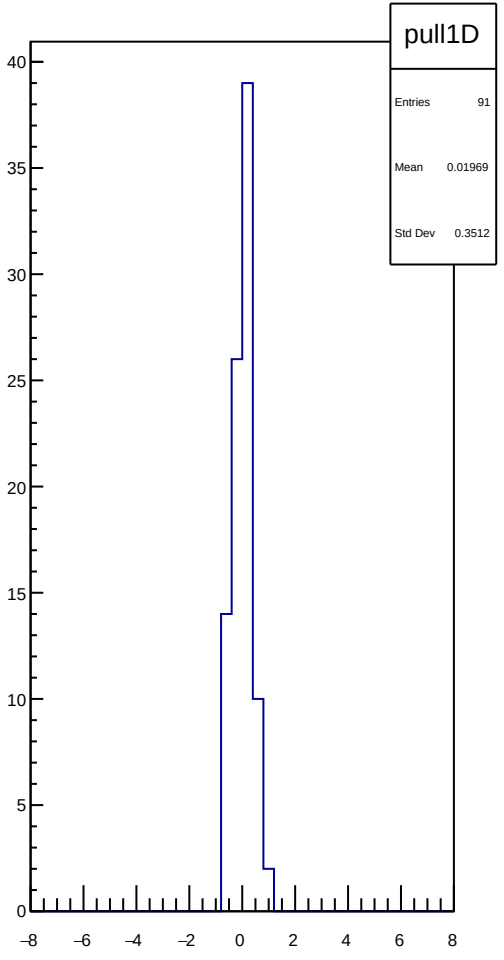

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 26.81 / 90
p0 −77.94 ± 0.9797
−50
−60
−70
−80
−90
−100
pull
Entries 91
Mean 1675
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
pull1D
Entries 91
Mean −0.004974
Std Dev 0.5428
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

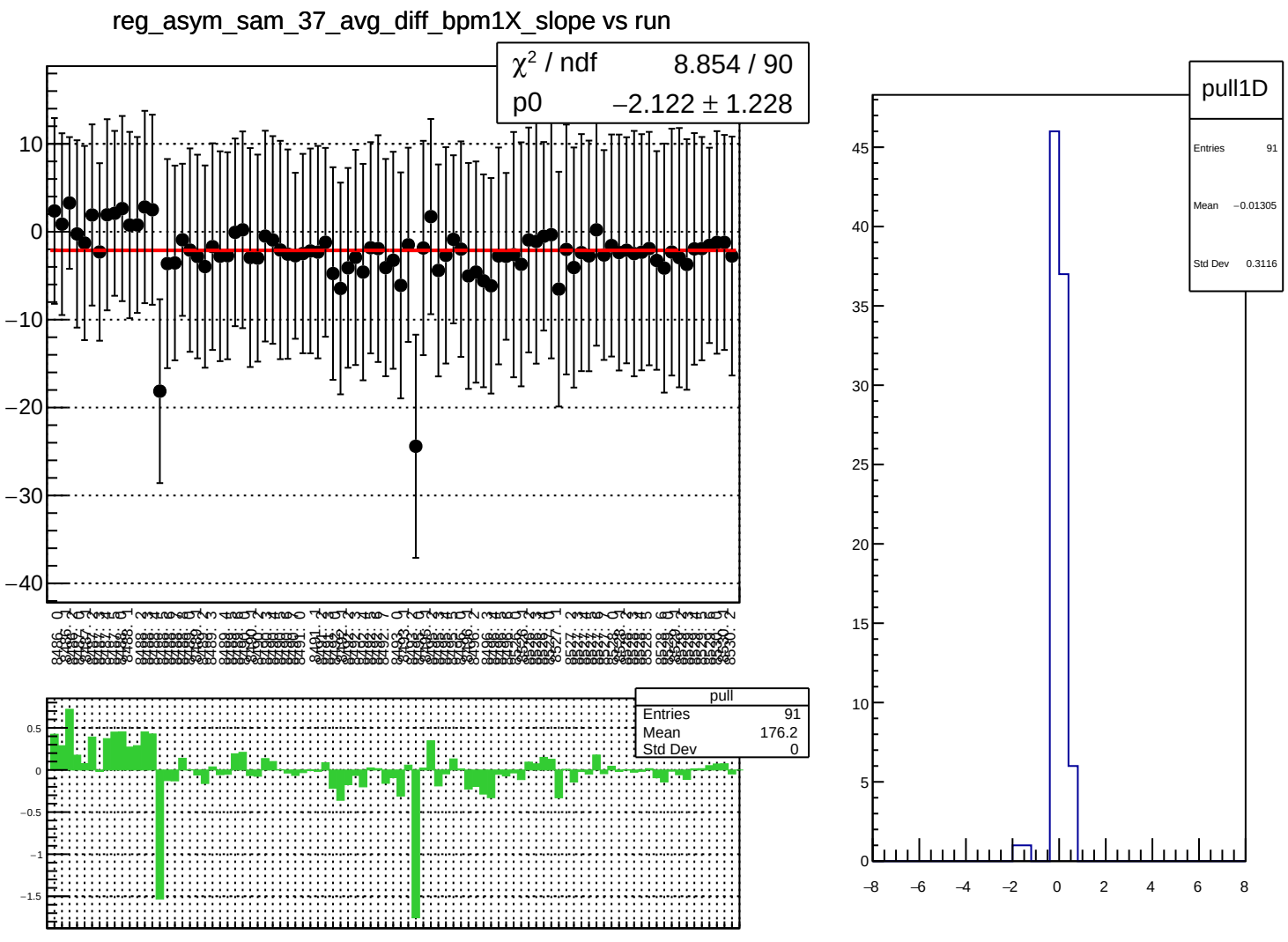

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.052 / 90
p0 −9.181 ± 0.6612
pull
Entries 91
Mean 160.4
Std Dev 0

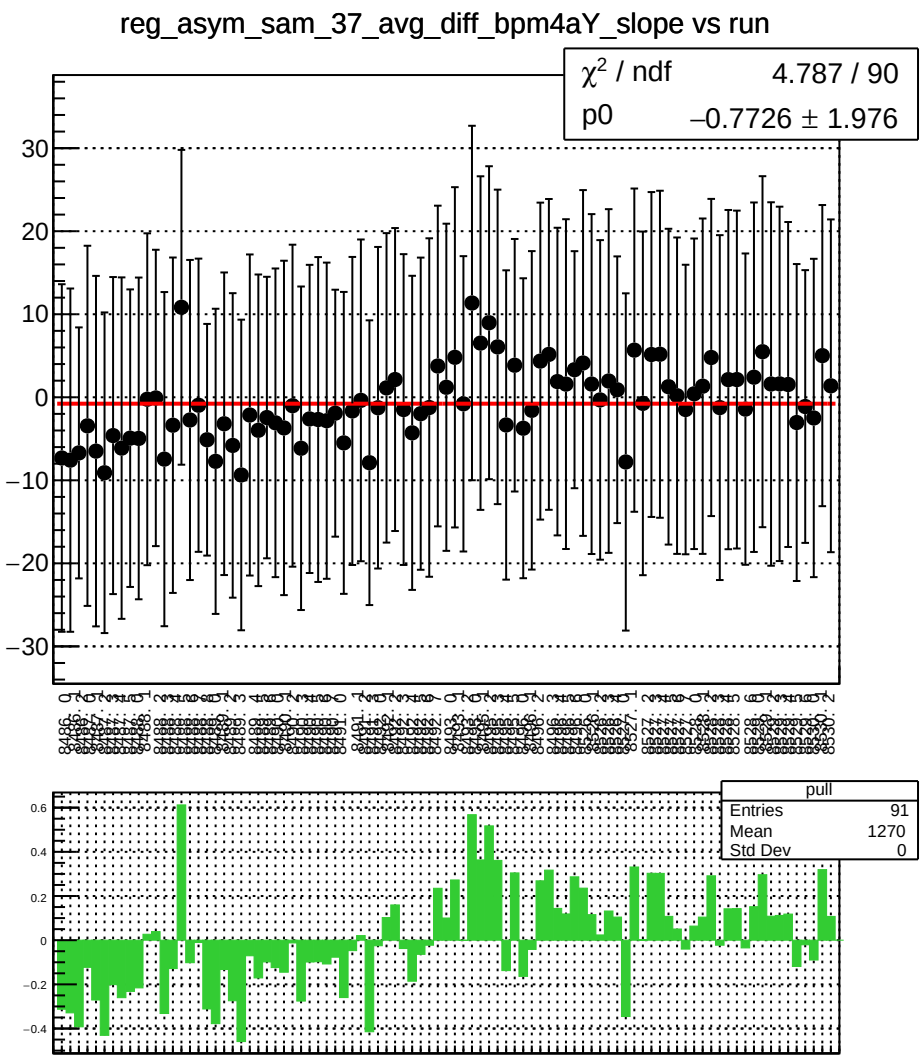

pull1D
Entries 91
Mean −0.02688
Std Dev 0.3142

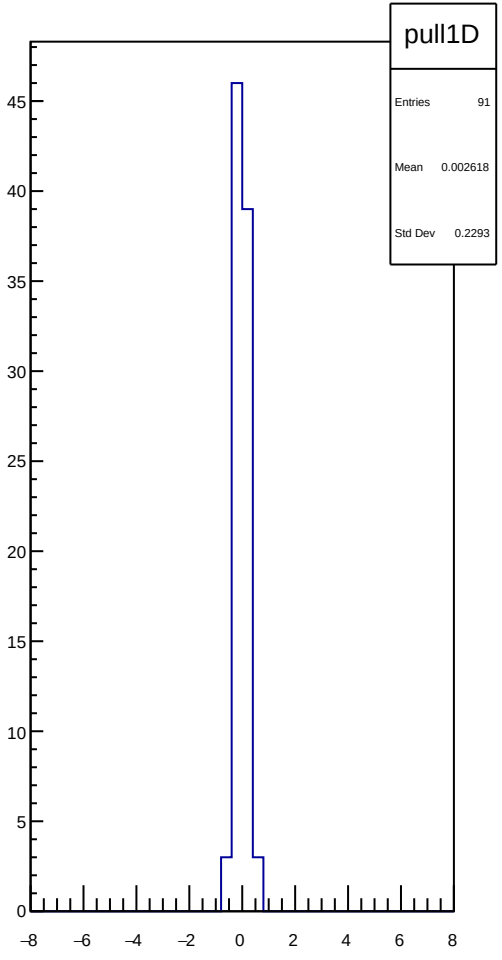

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 25.6 / 90
p0 −17.25 ± 1.038
pull
Entries 91
Mean 2540
Std Dev 0
pull1D
Entries 91
Mean 0.003145
Std Dev 0.5304

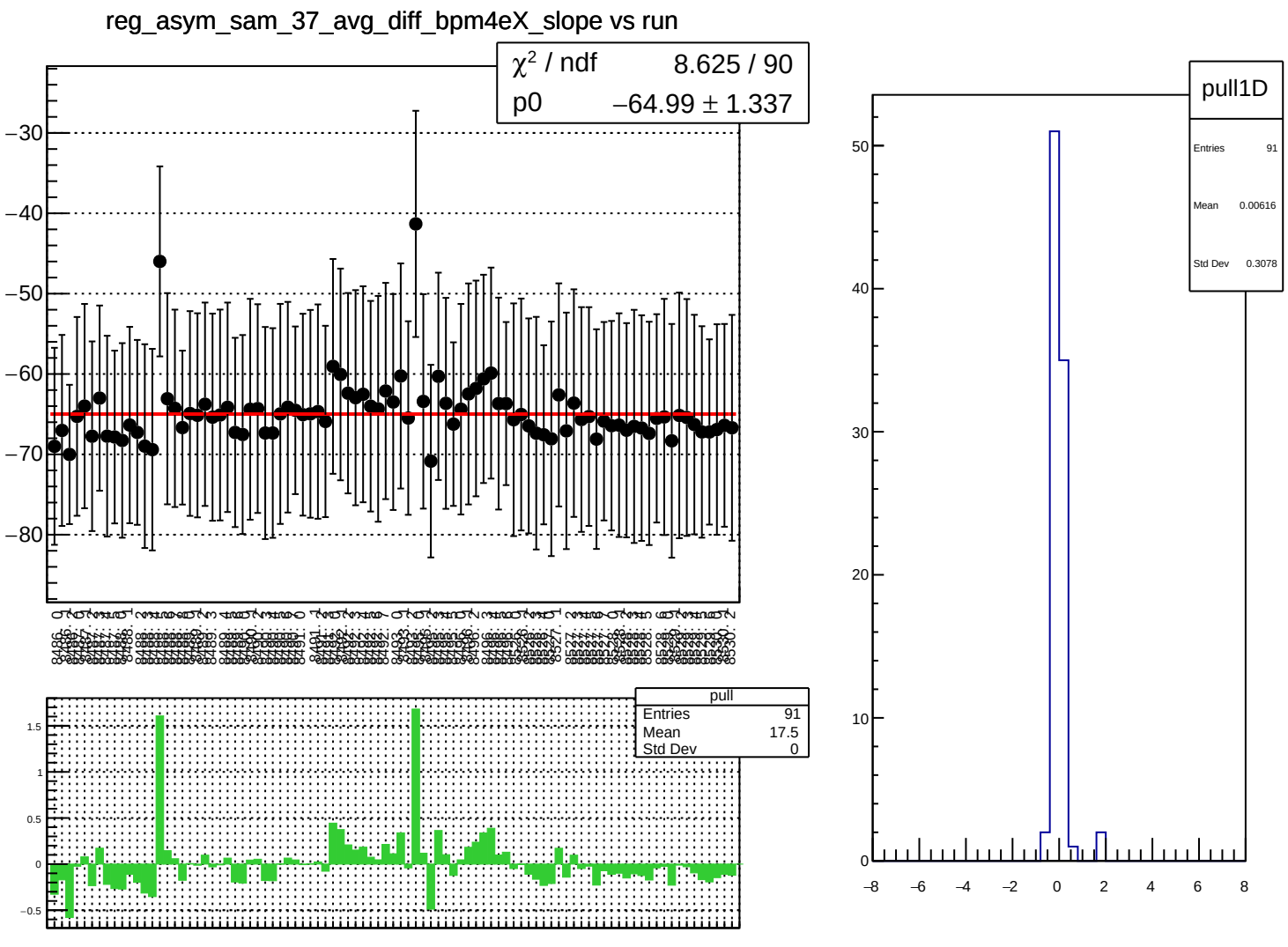

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 11.26 / 90
p0 1.258 ± 0.06186
pull
Entries 91
Mean −269.4
Std Dev 0

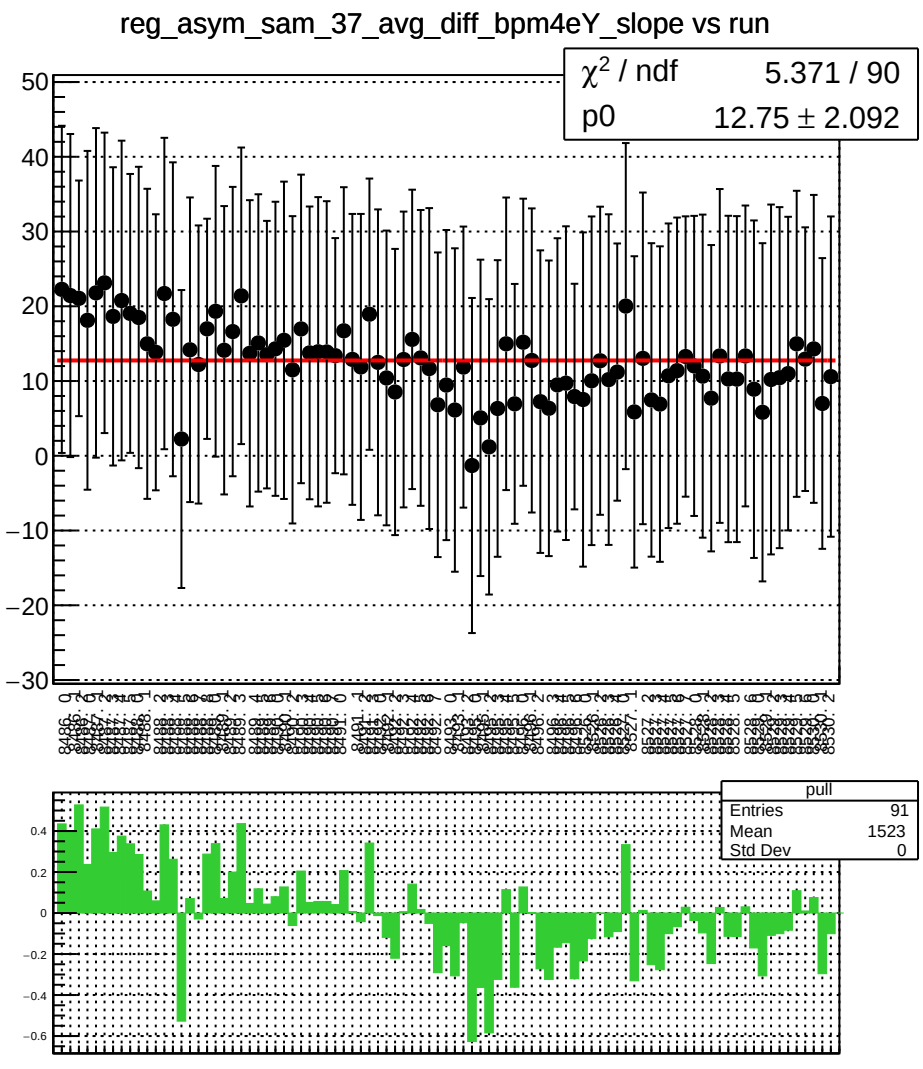

pull1D
Entries 91
Mean 0.01969
Std Dev 0.3512

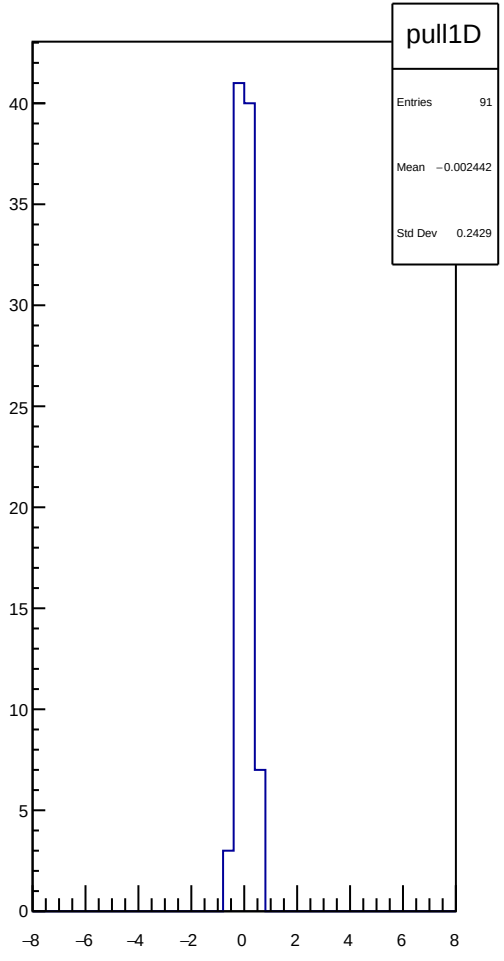

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 8.854 / 90
p0 −2.122 ± 1.228
pull
Entries 91
Mean 176.2
Std Dev 0
pull1D
Entries 91
Mean −0.01305
Std Dev 0.3116

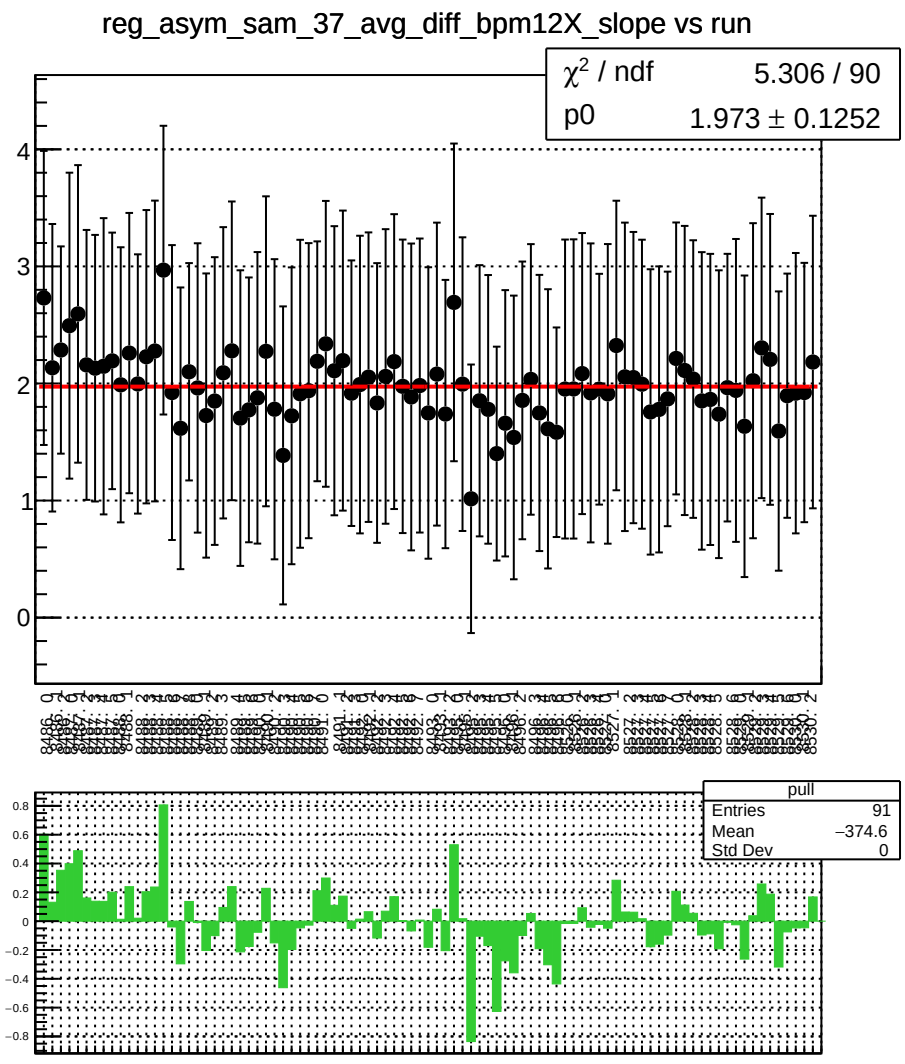

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.787 / 90
p0 −0.7726 ± 1.976
pull
Entries 91
Mean 1270
Std Dev 0

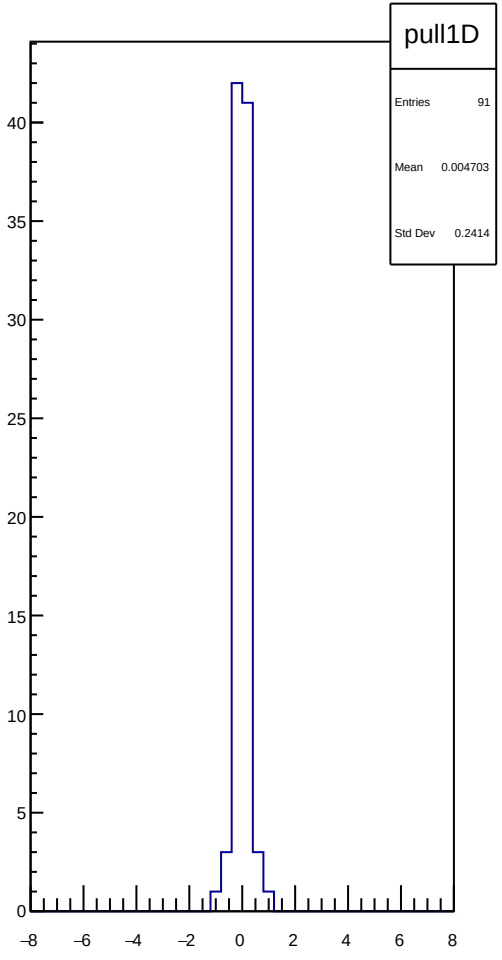

pull1D
Entries 91
Mean 0.002618
Std Dev 0.2293

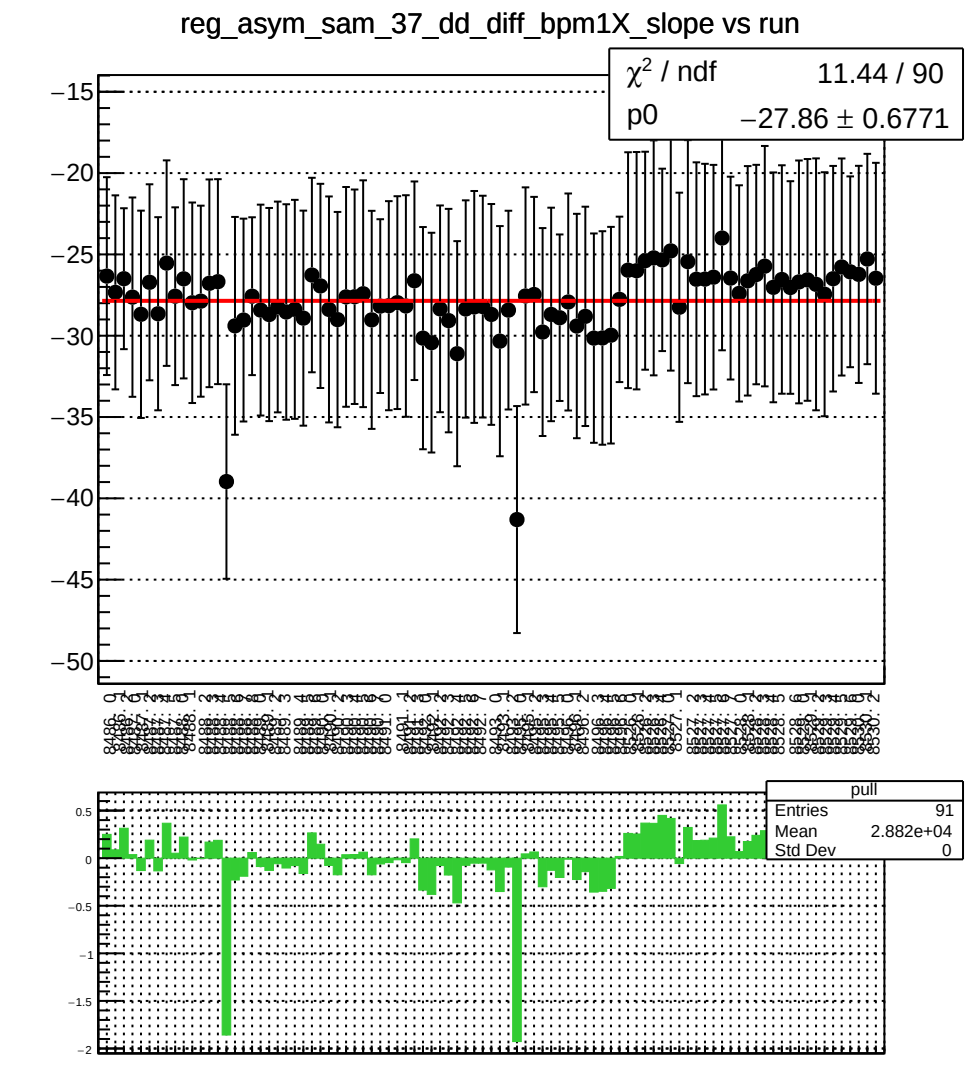

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.625 / 90
p0 −64.99 ± 1.337
pull
Entries 91
Mean 17.5
Std Dev 0
pull1D
Entries 91
Mean 0.00616
Std Dev 0.3078

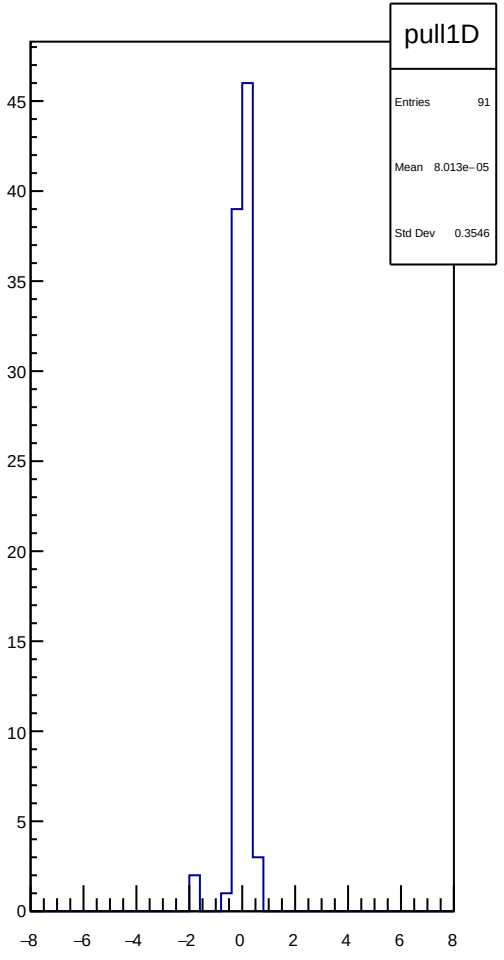

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.371 / 90
p0 12.75 ± 2.092
pull
Entries 91
Mean 1523
Std Dev 0

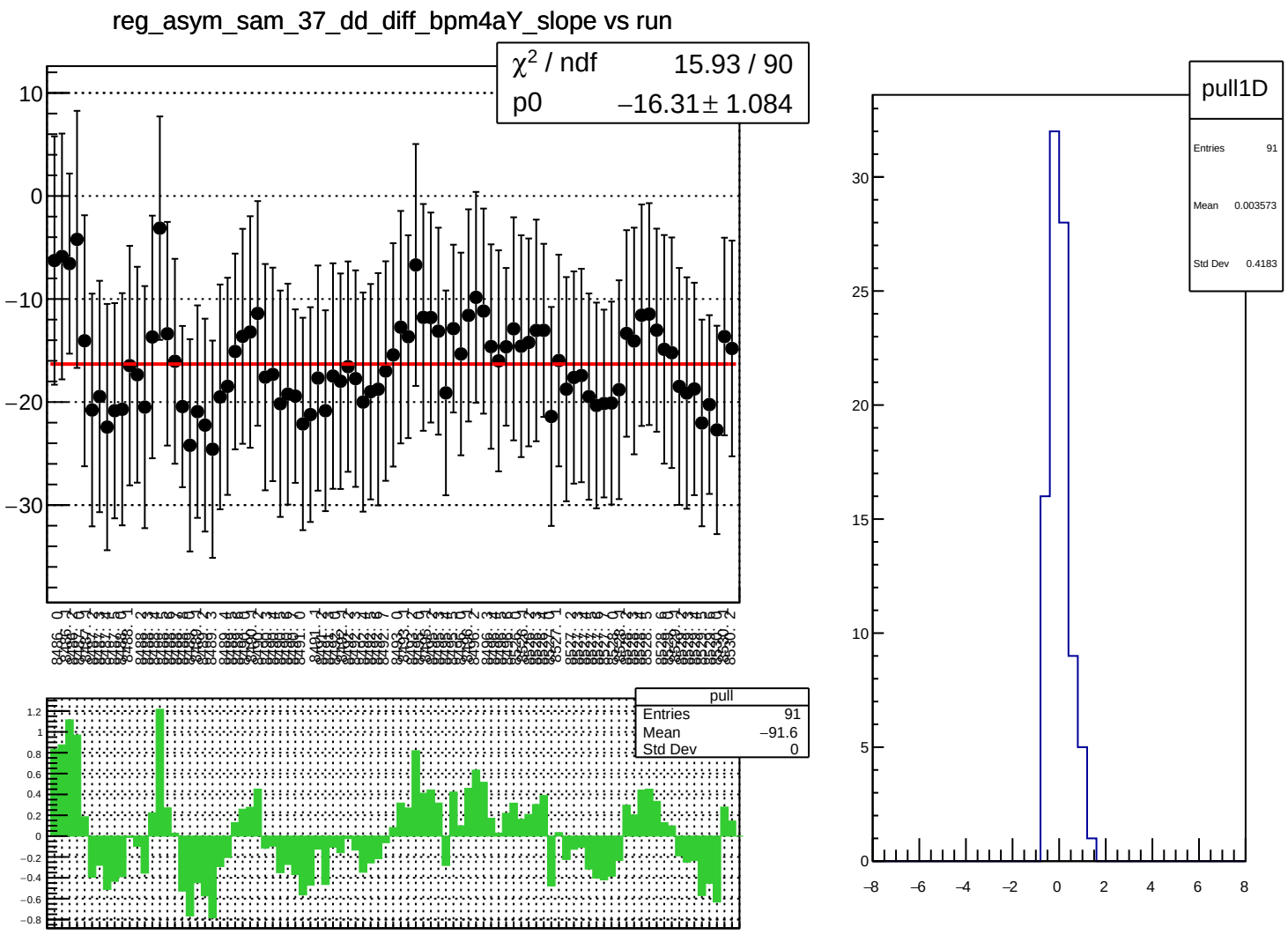

pull1D
Entries 91
Mean −0.002442
Std Dev 0.2429

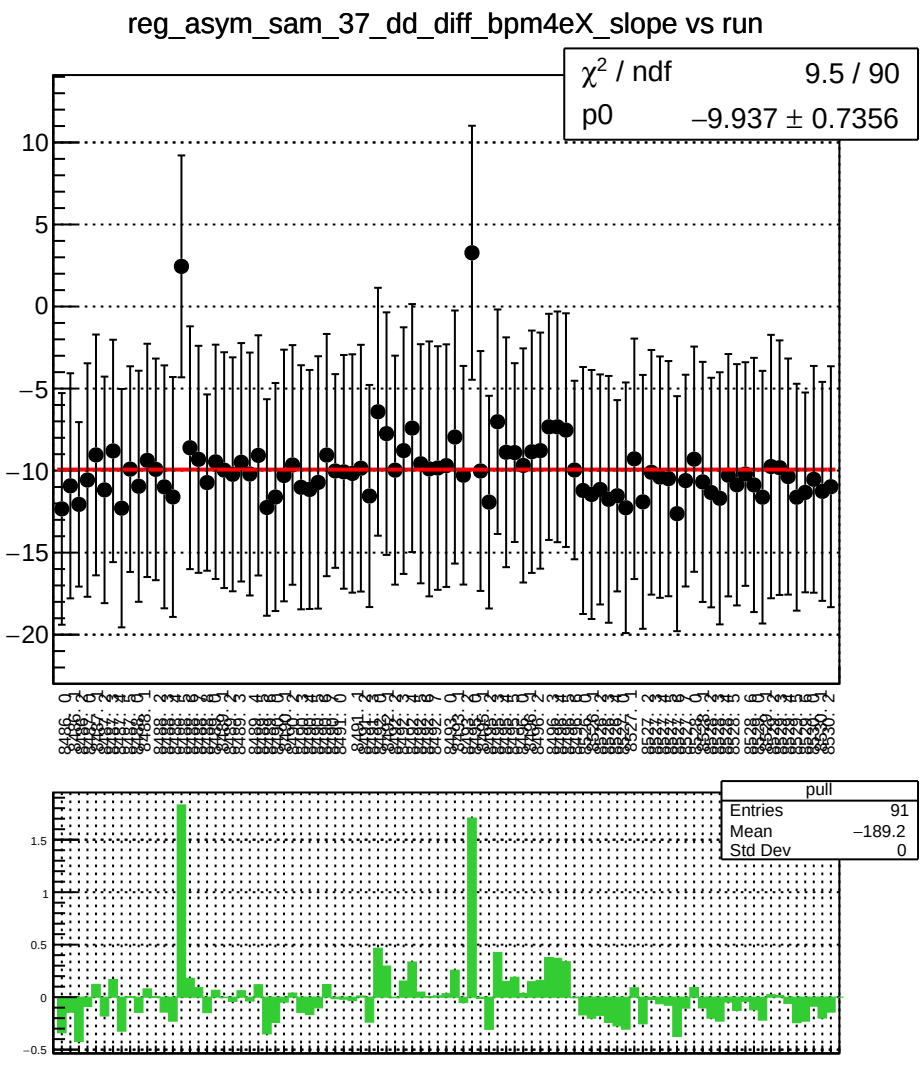

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 5.306 / 90
p0 1.973 ± 0.1252
pull
Entries 91
Mean −374.6
Std Dev 0

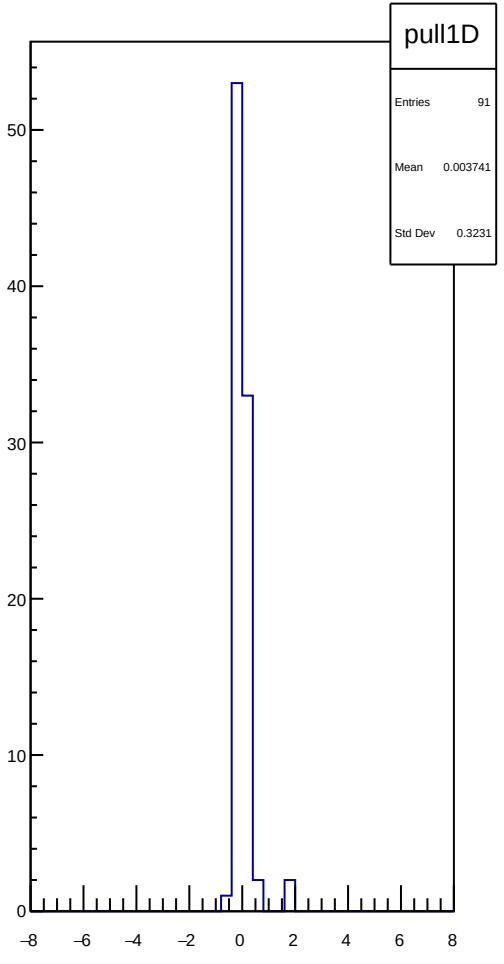

pull1D
Entries 91
Mean 0.004703
Std Dev 0.2414

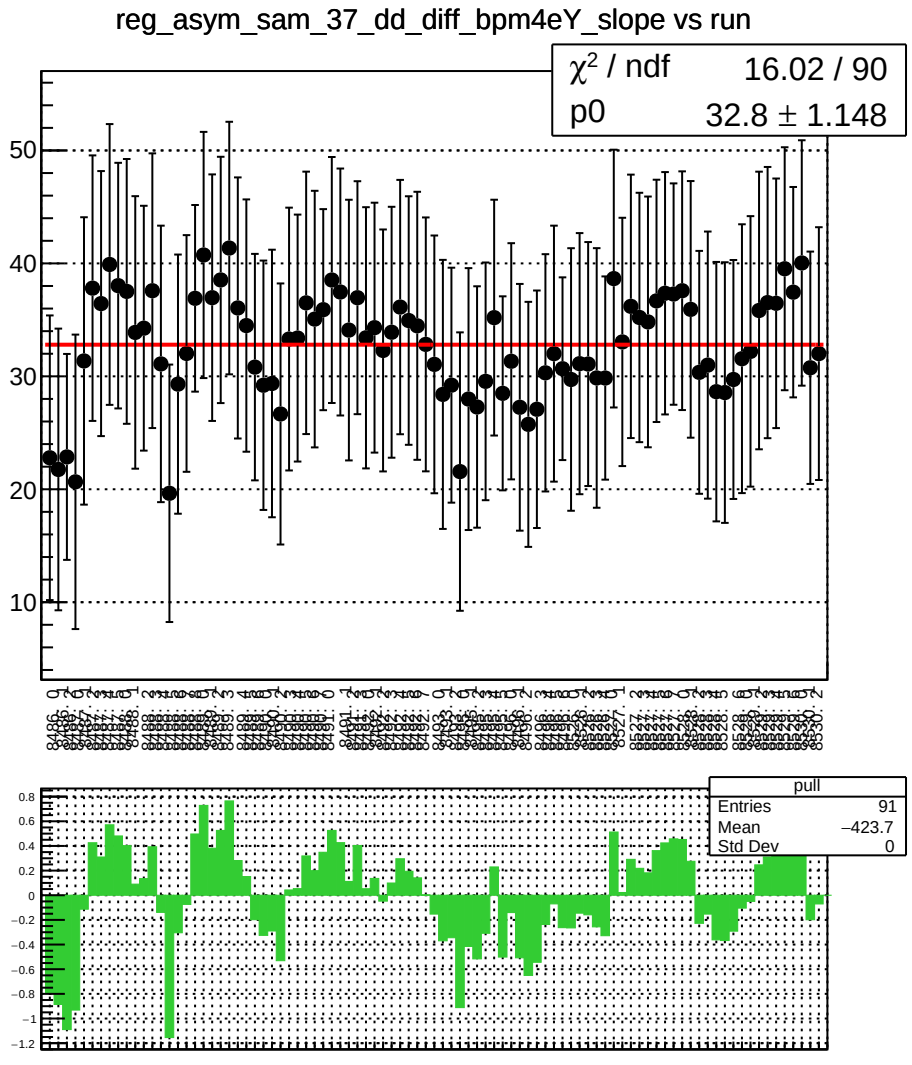

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 11.44 / 90
p0 −27.86 ± 0.6771
pull
Entries 91
Mean 2.882e+04
Std Dev 0

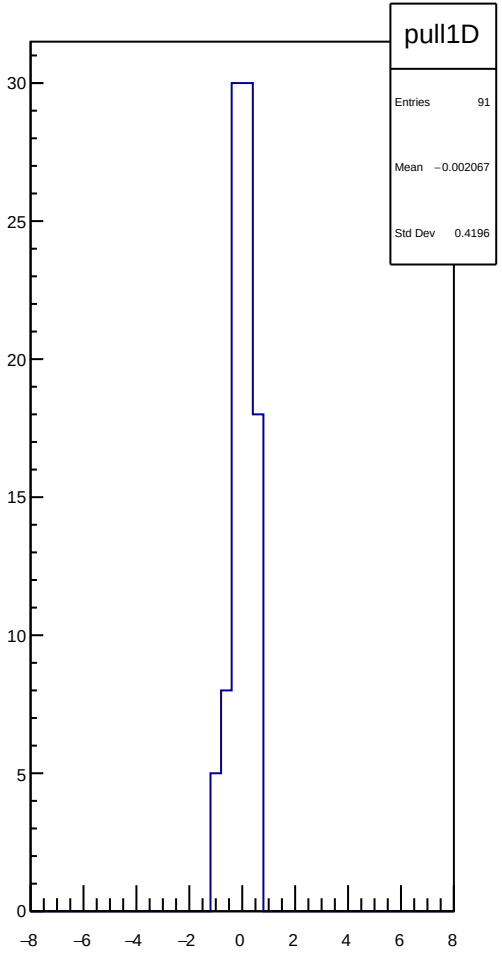

pull1D
Entries 91
Mean 8.013e−05
Std Dev 0.3546

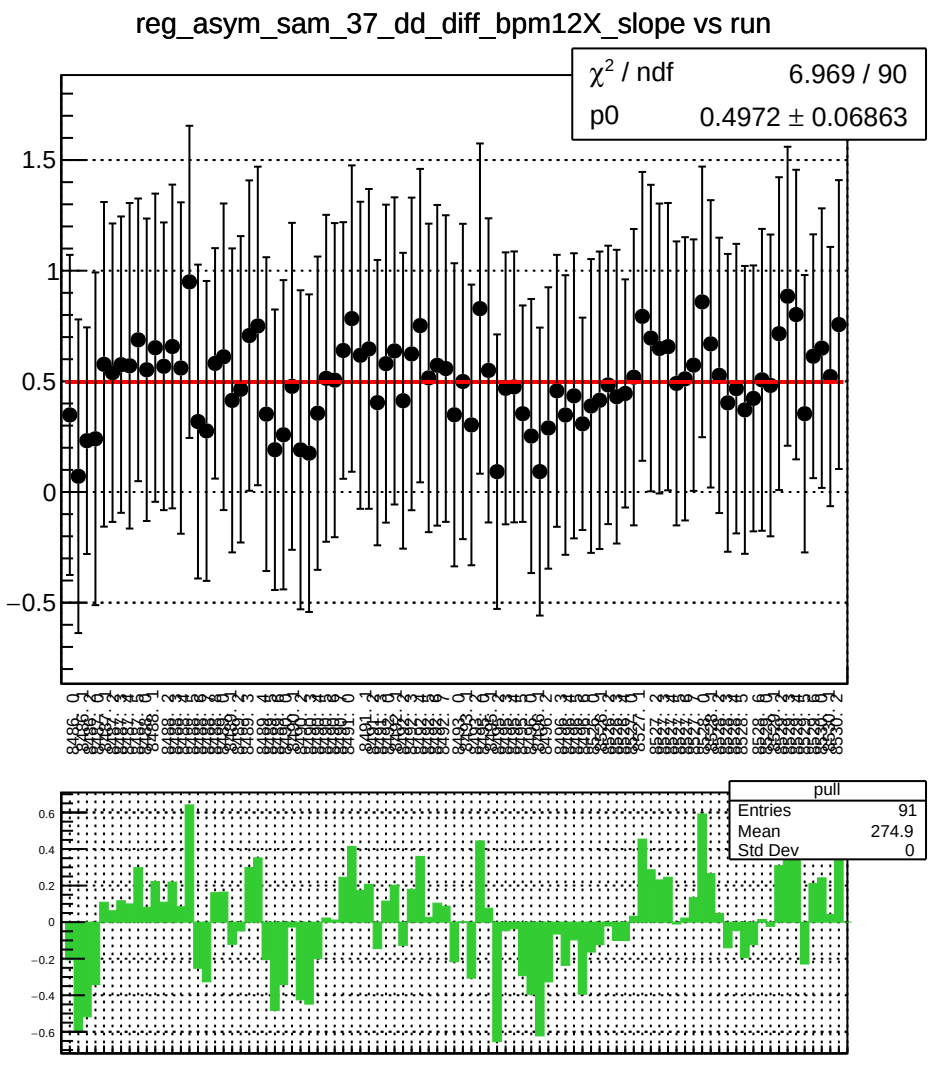

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.93 / 90
p0 −16.31 ± 1.084
pull
Entries 91
Mean −91.6
Std Dev 0
pull1D
Entries 91
Mean 0.003573
Std Dev 0.4183

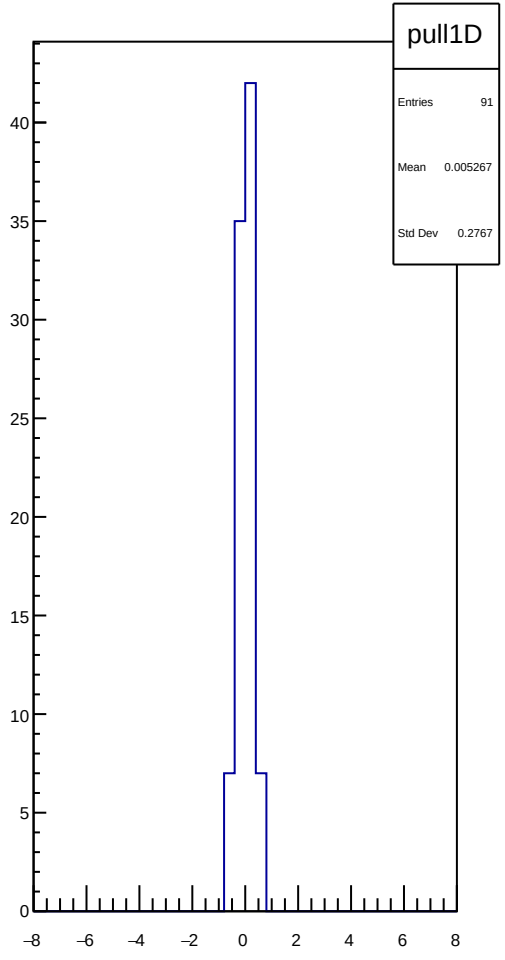

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.5 / 90
p0 −9.937 ± 0.7356
pull
Entries 91
Mean −189.2
Std Dev 0

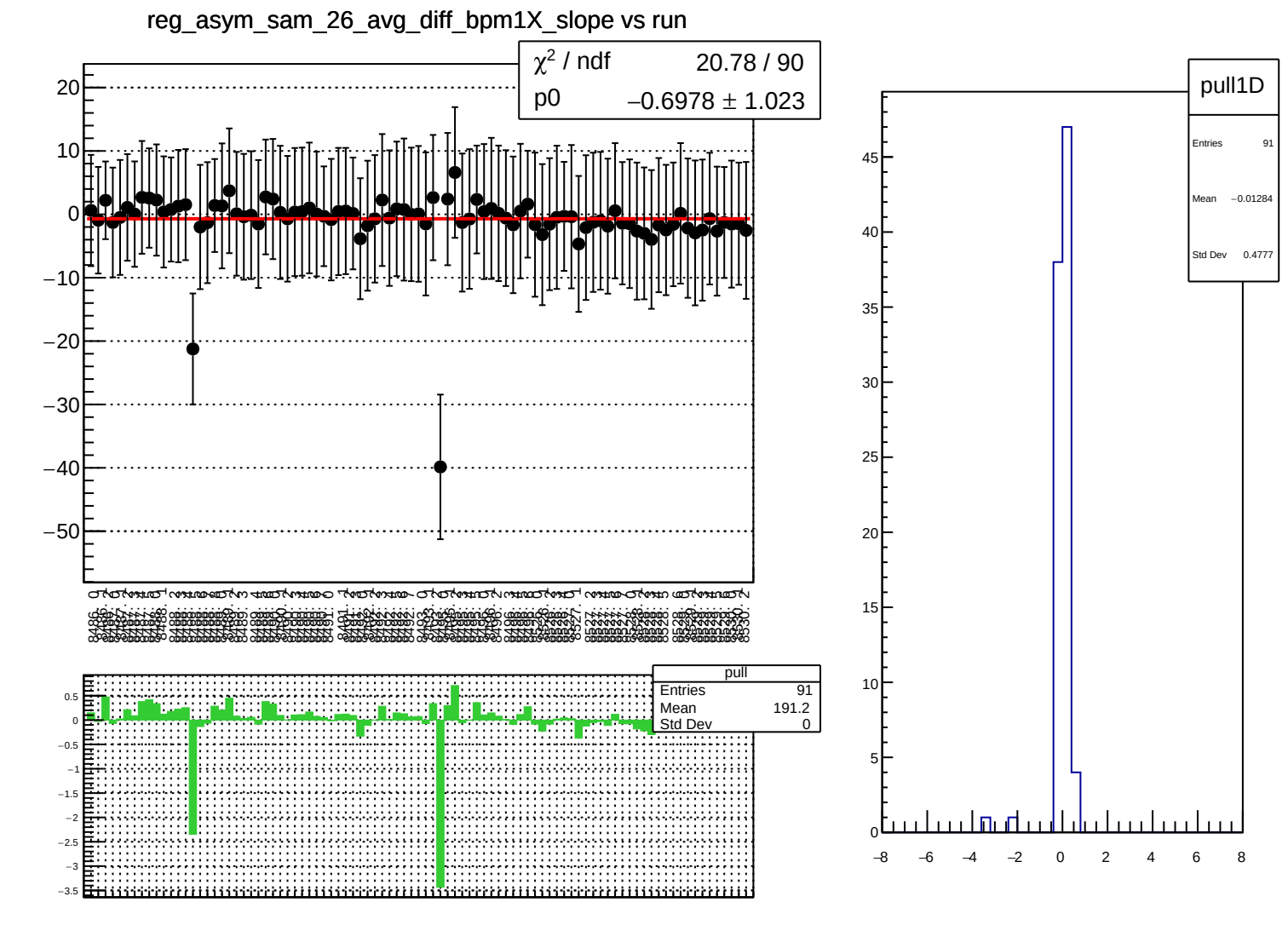

pull1D
Entries 91
Mean 0.003741
Std Dev 0.3231

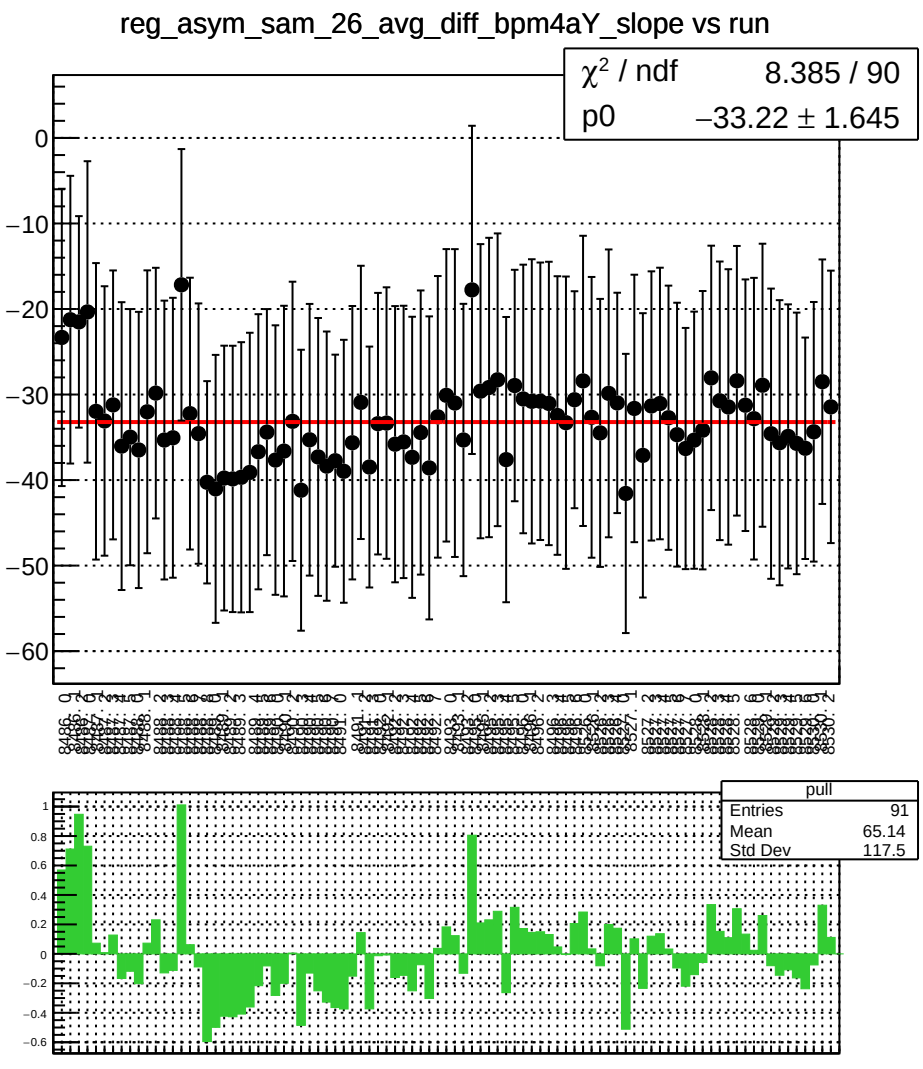

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 16.02 / 90
p0 32.8 ± 1.148
pull
Entries 91
Mean −423.7
Std Dev 0

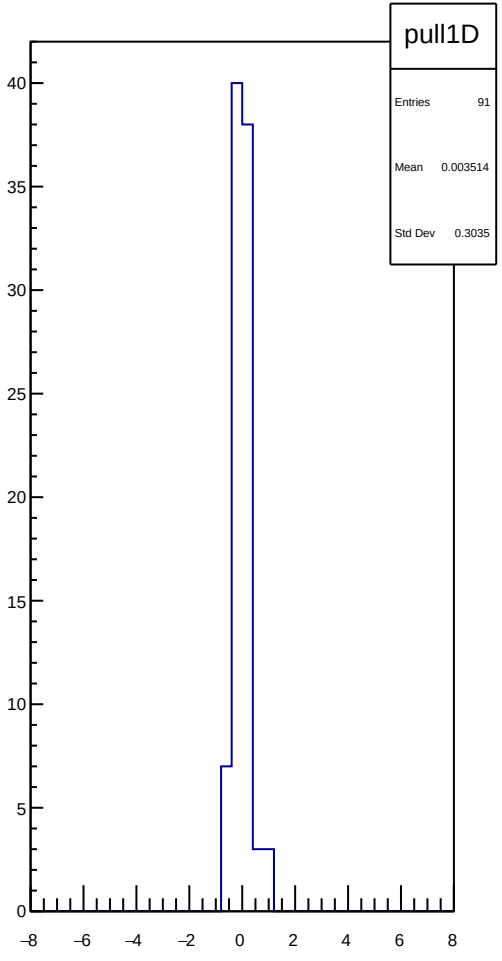

pull1D
Entries 91
Mean −0.002067
Std Dev 0.4196

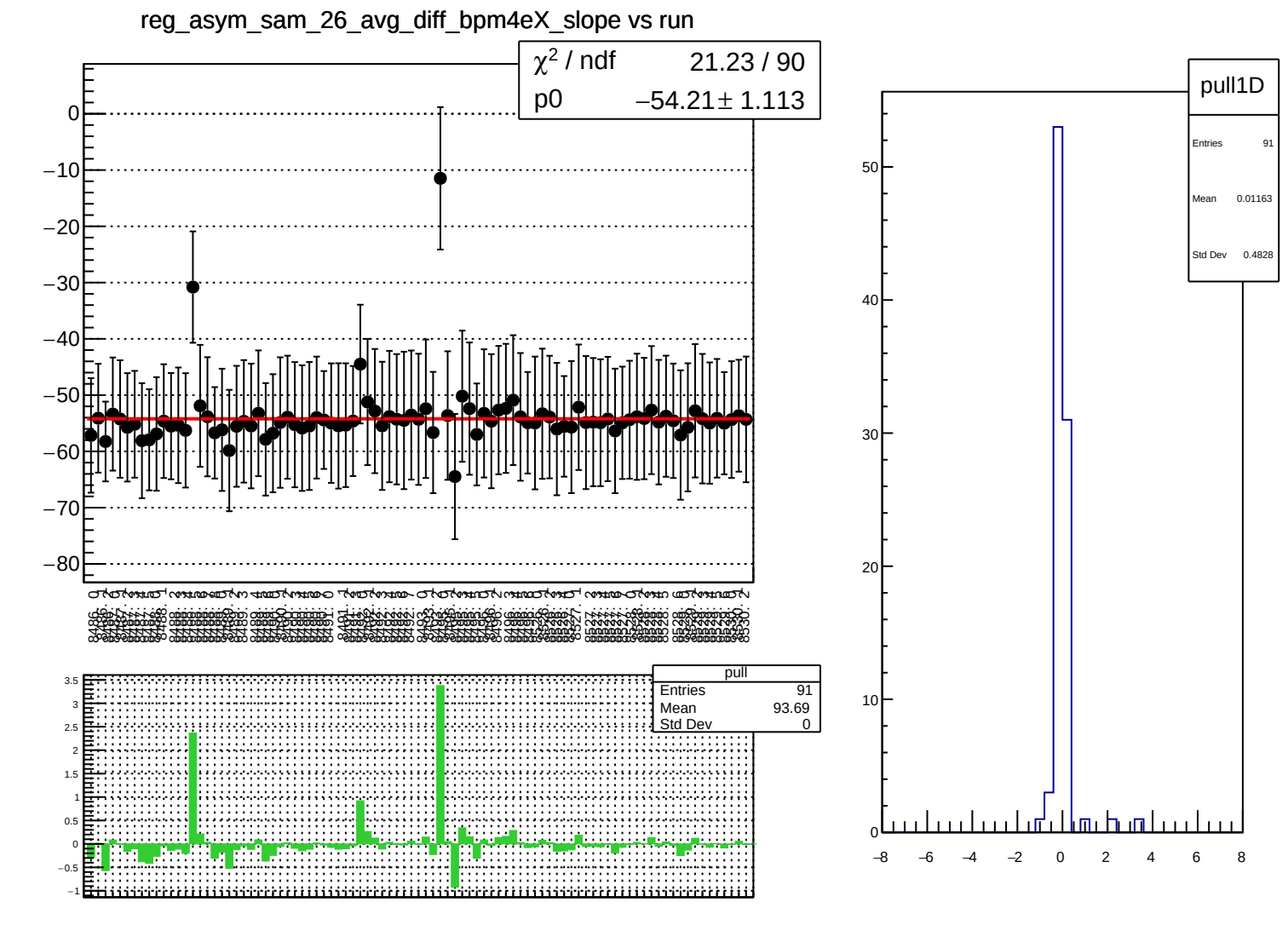

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 6.969 / 90
p0 0.4972 ± 0.06863
1.5
1
0.5
0
−0.5
pull
Entries 91
Mean 274.9
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

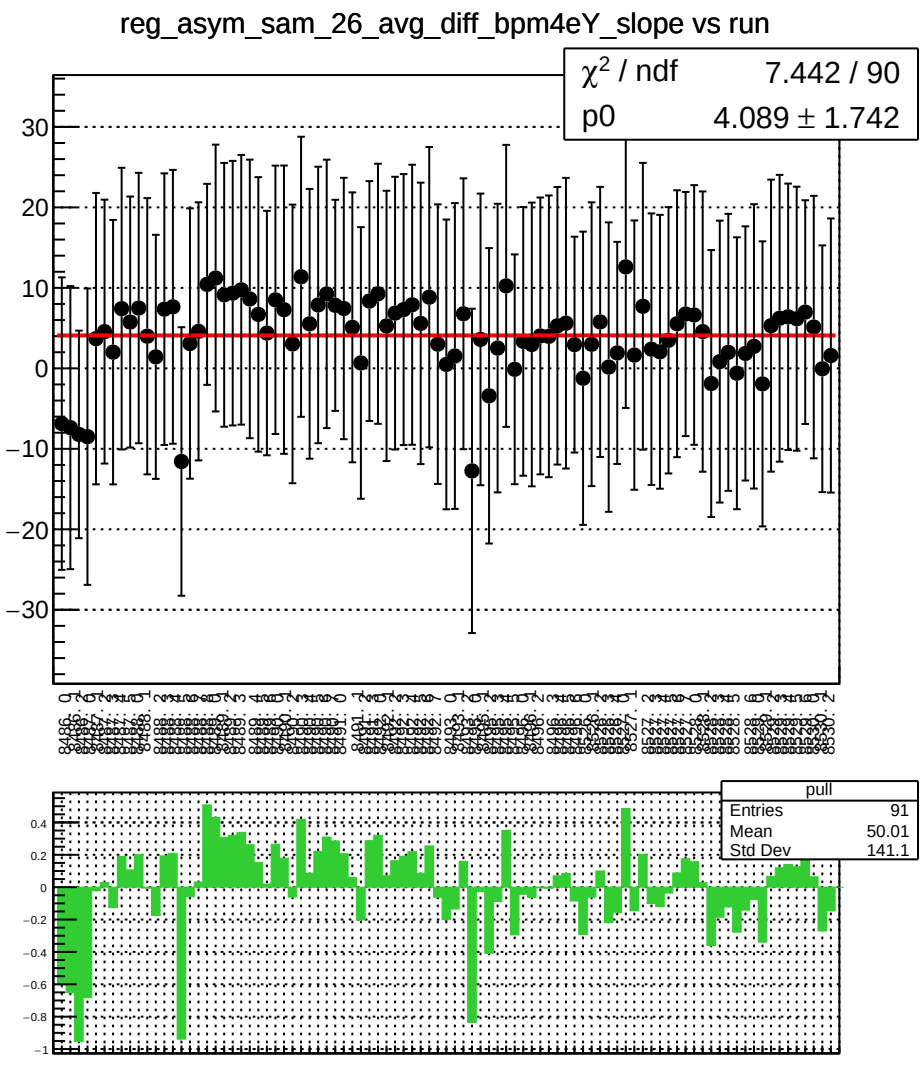

pull1D
Entries 91
Mean 0.005267
Std Dev 0.2767
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

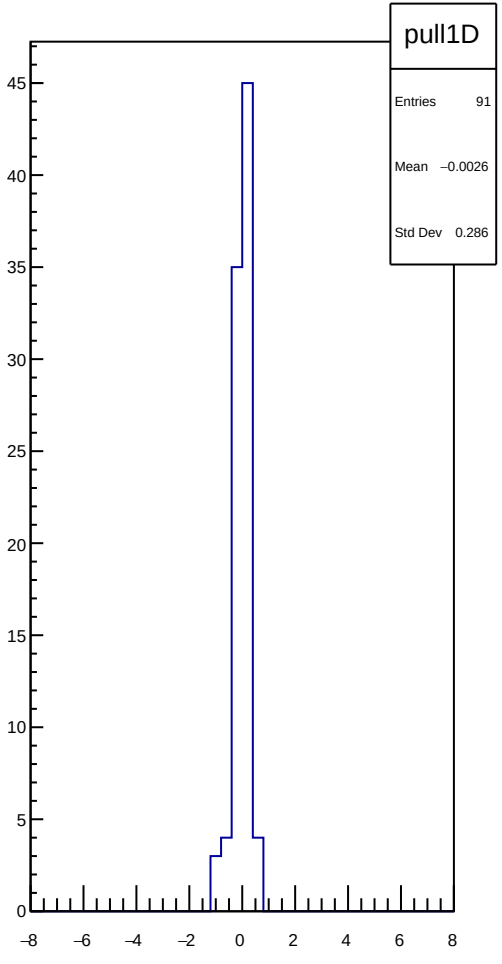

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 20.78 / 90
p0 −0.6978 ± 1.023
pull
Entries 91
Mean 191.2
Std Dev 0
pull1D
Entries 91
Mean −0.01284
Std Dev 0.4777

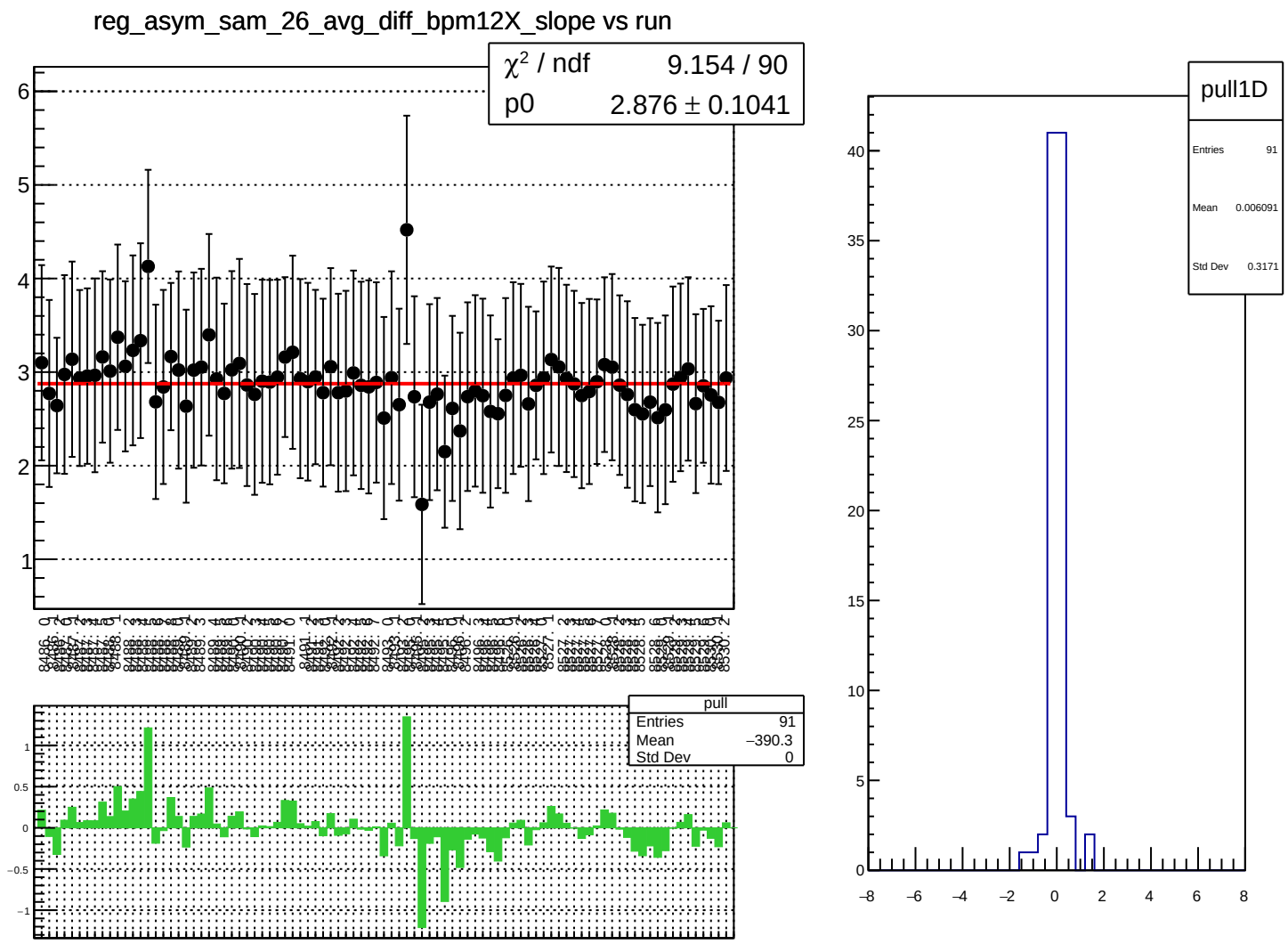

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.385 / 90
p0 −33.22 ± 1.645
pull
Entries 91
Mean 65.14
Std Dev 117.5

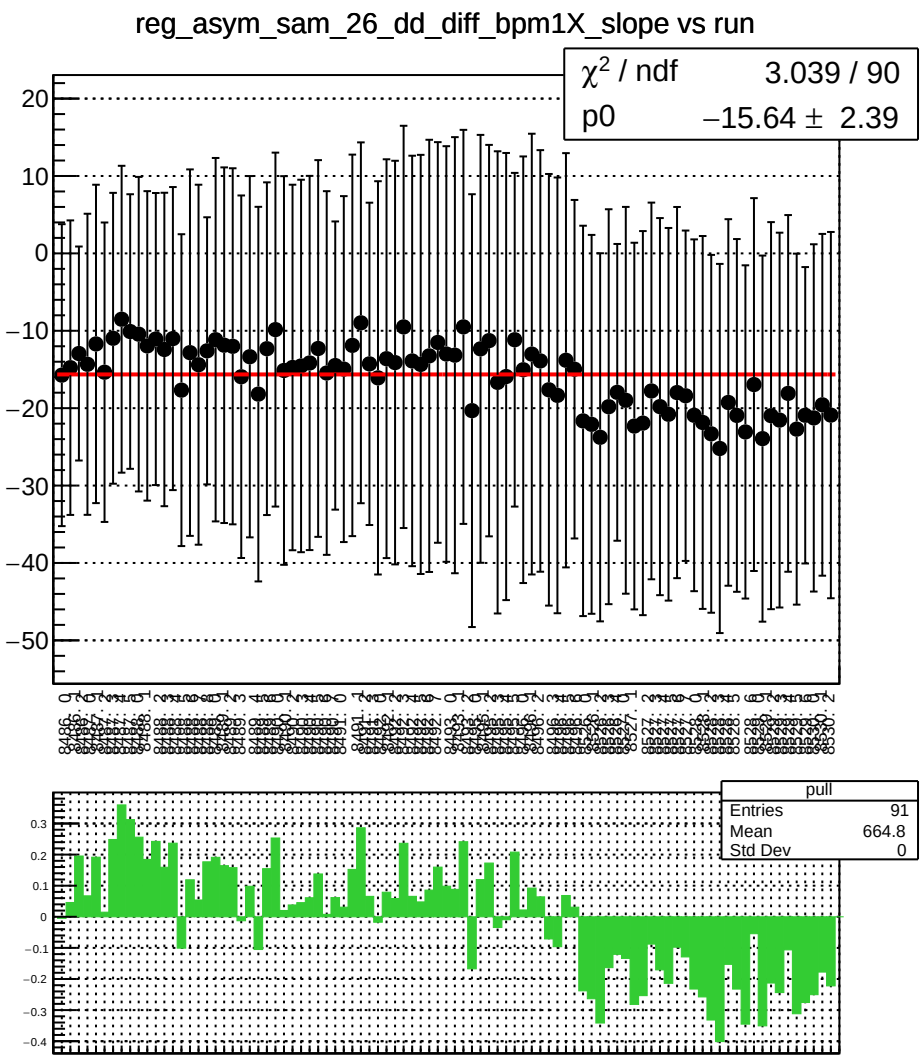

pull1D
Entries 91
Mean 0.003514
Std Dev 0.3035

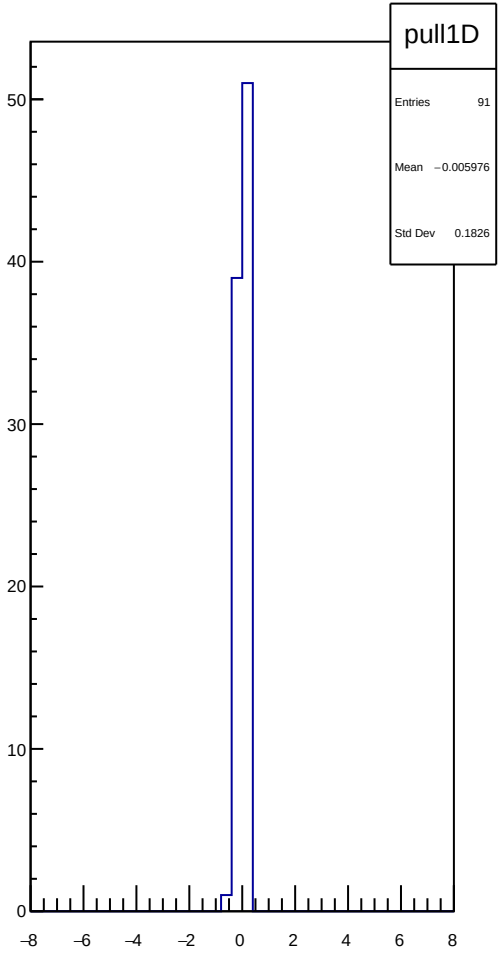

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 21.23 / 90
p0 −54.21 ± 1.113
pull
Entries 91
Mean 93.69
Std Dev 0
pull1D
Entries 91
Mean 0.01163
Std Dev 0.4828

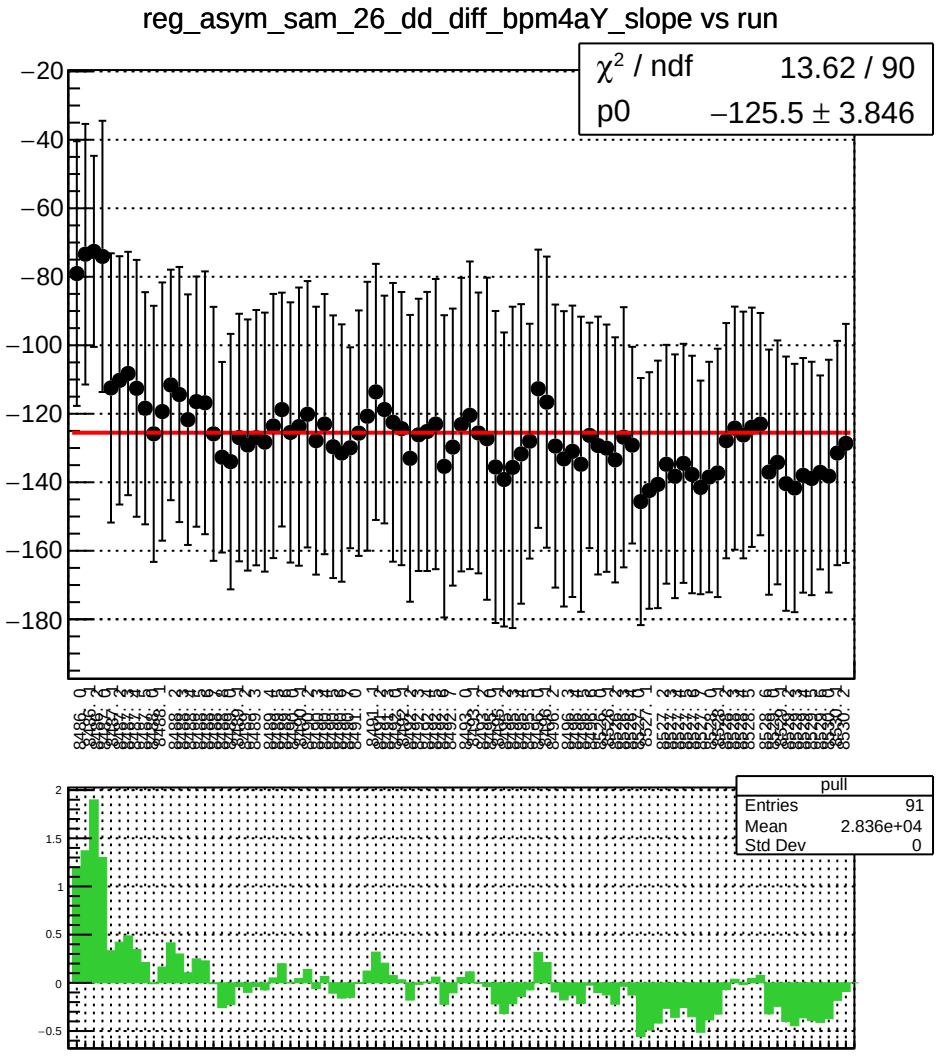

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.442 / 90
p0 4.089 ± 1.742
pull
Entries 91
Mean 50.01
Std Dev 141.1

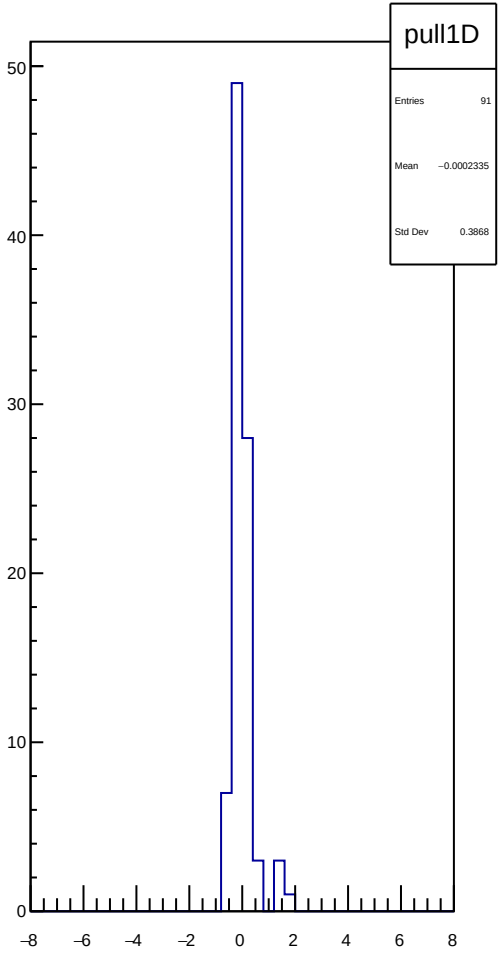

pull1D
Entries 91
Mean −0.0026
Std Dev 0.286

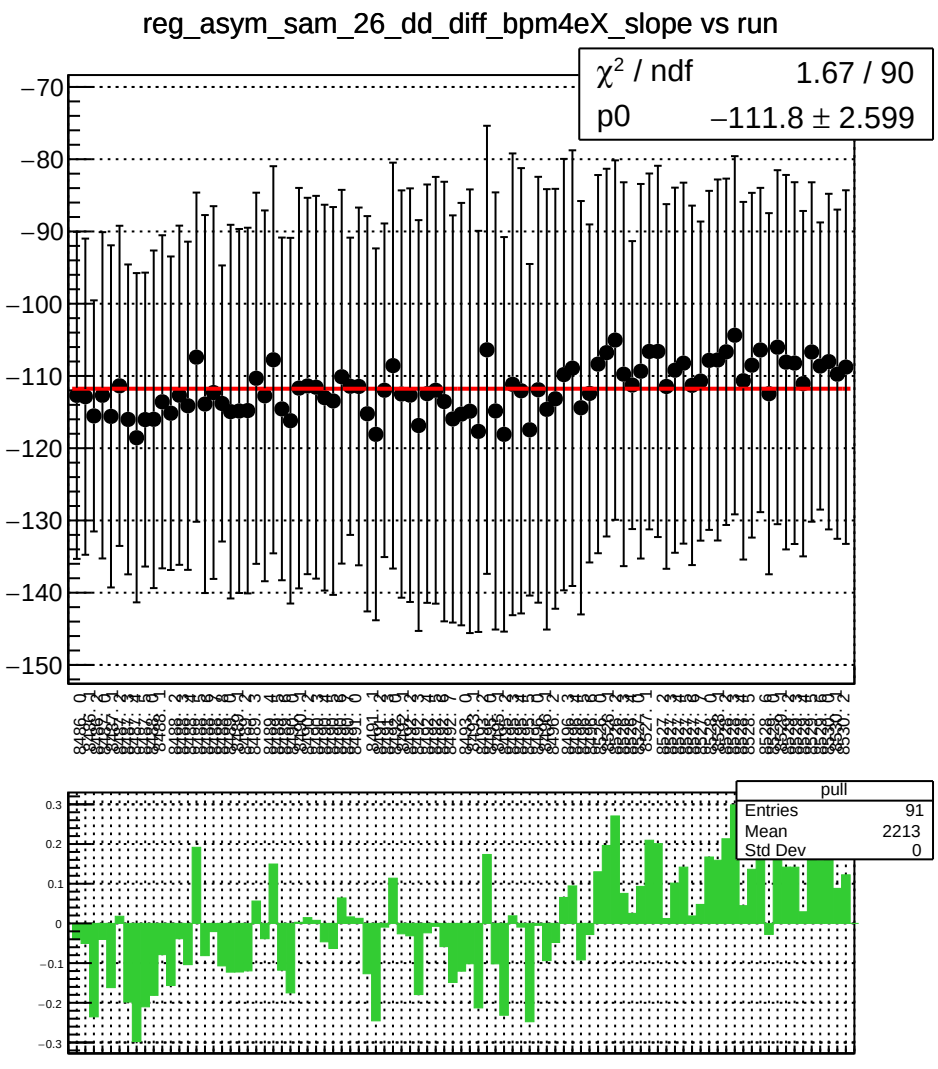

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 9.154 / 90
p0 2.876 ± 0.1041
pull
Entries 91
Mean −390.3
Std Dev 0
pull1D
Entries 91
Mean 0.006091
Std Dev 0.3171

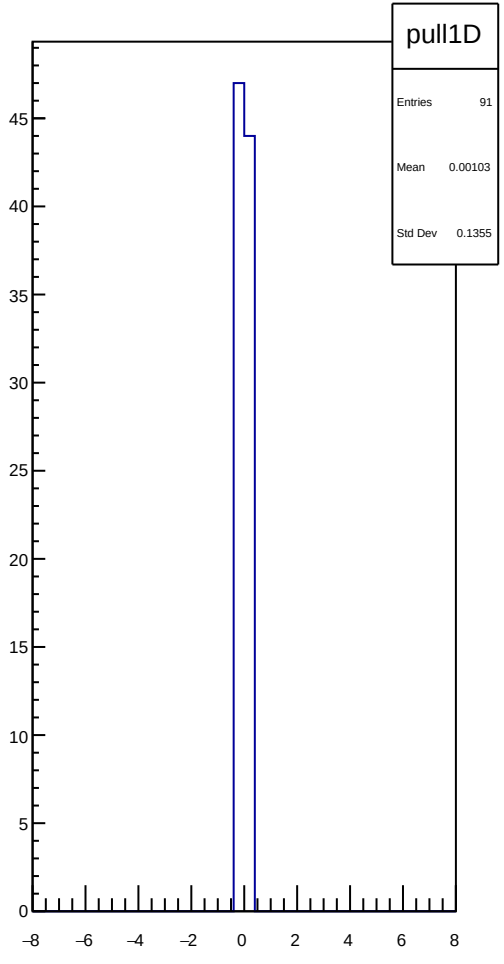

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 3.039 / 90
p0 −15.64 ± 2.39
pull
Entries 91
Mean 664.8
Std Dev 0

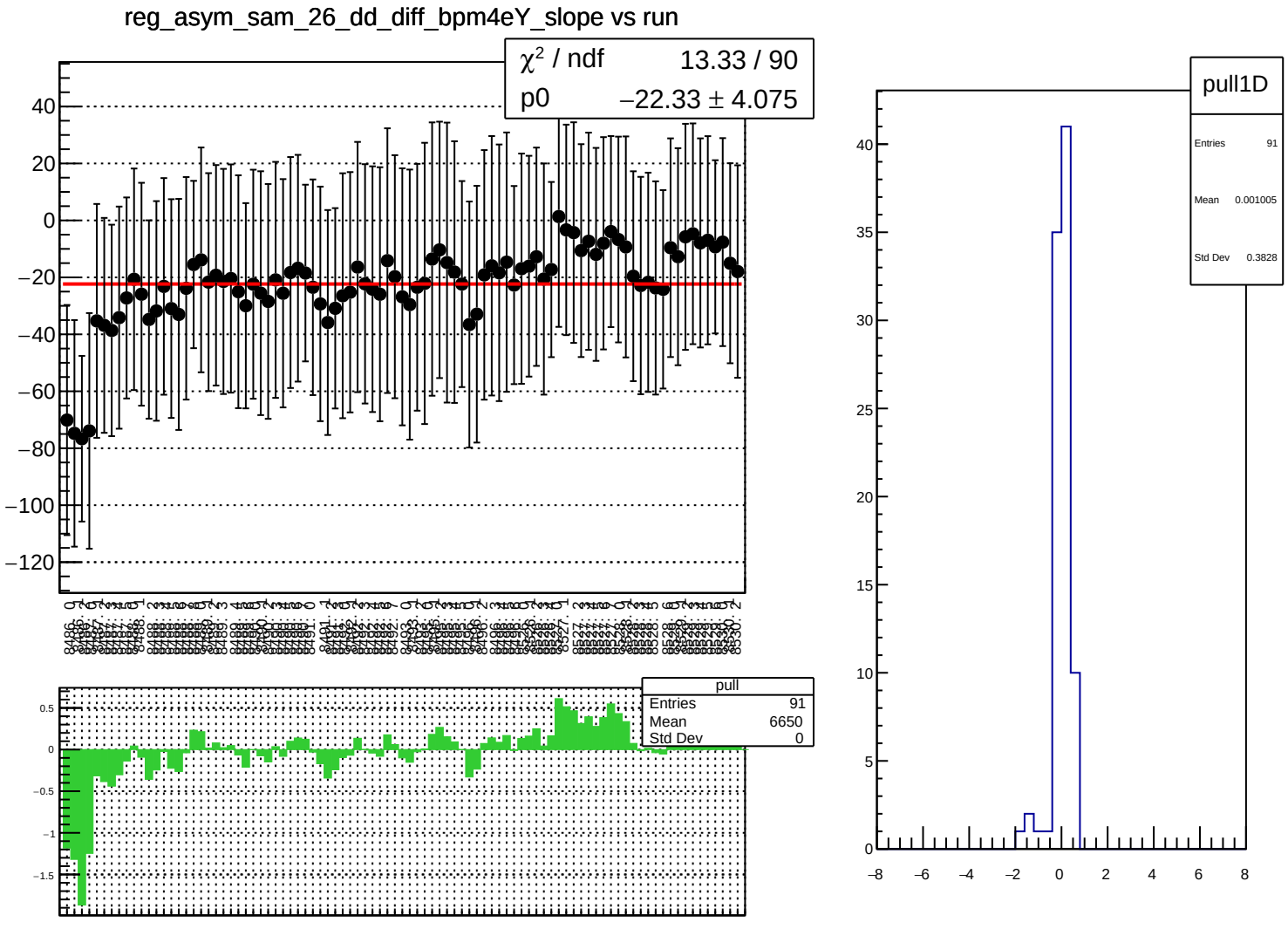

pull1D
Entries 91
Mean −0.005976
Std Dev 0.1826

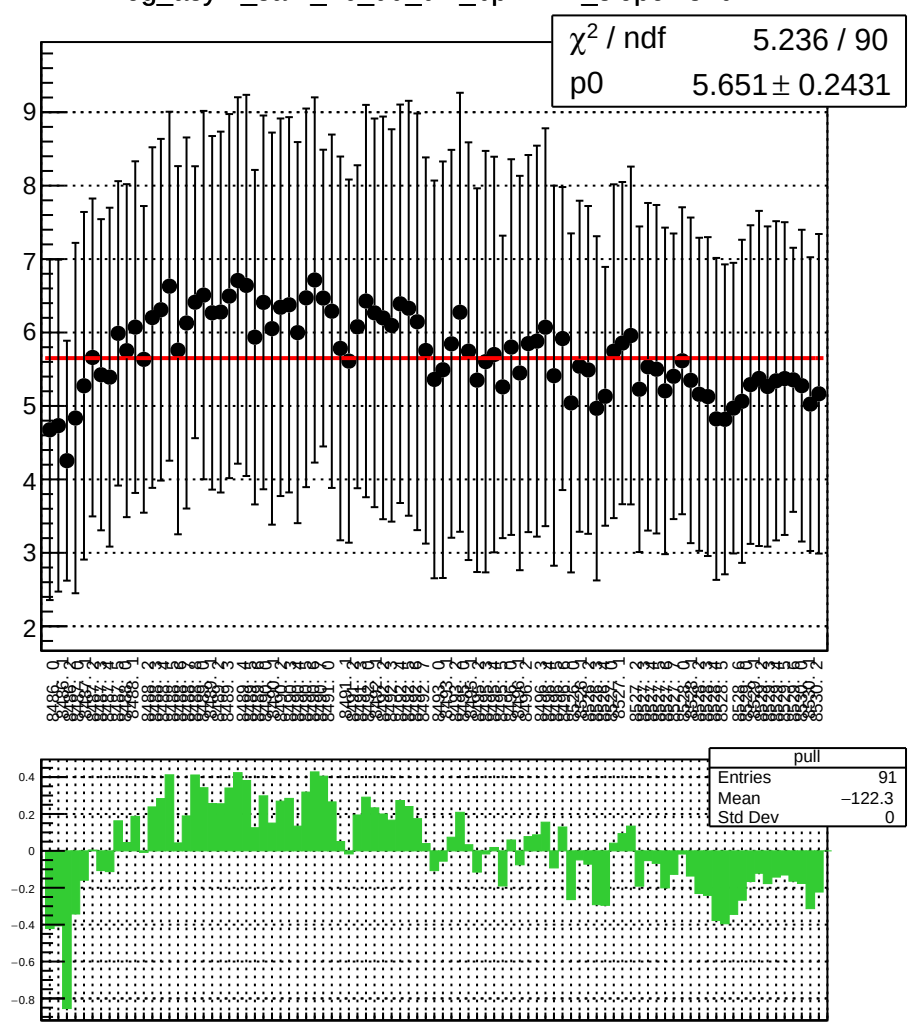

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.62 / 90
p0 −125.5 ± 3.846
pull
Entries 91
Mean 2.836e+04
Std Dev 0

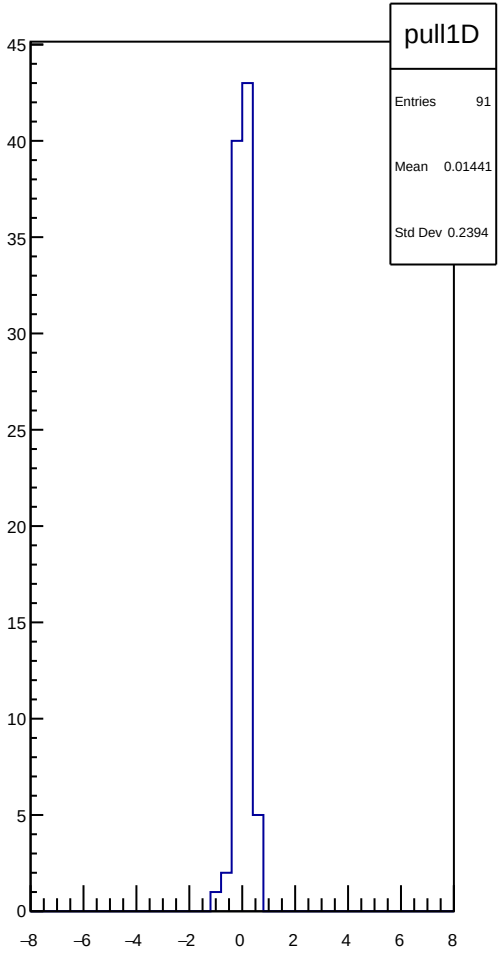

pull1D
Entries 91
Mean −0.0002335
Std Dev 0.3868

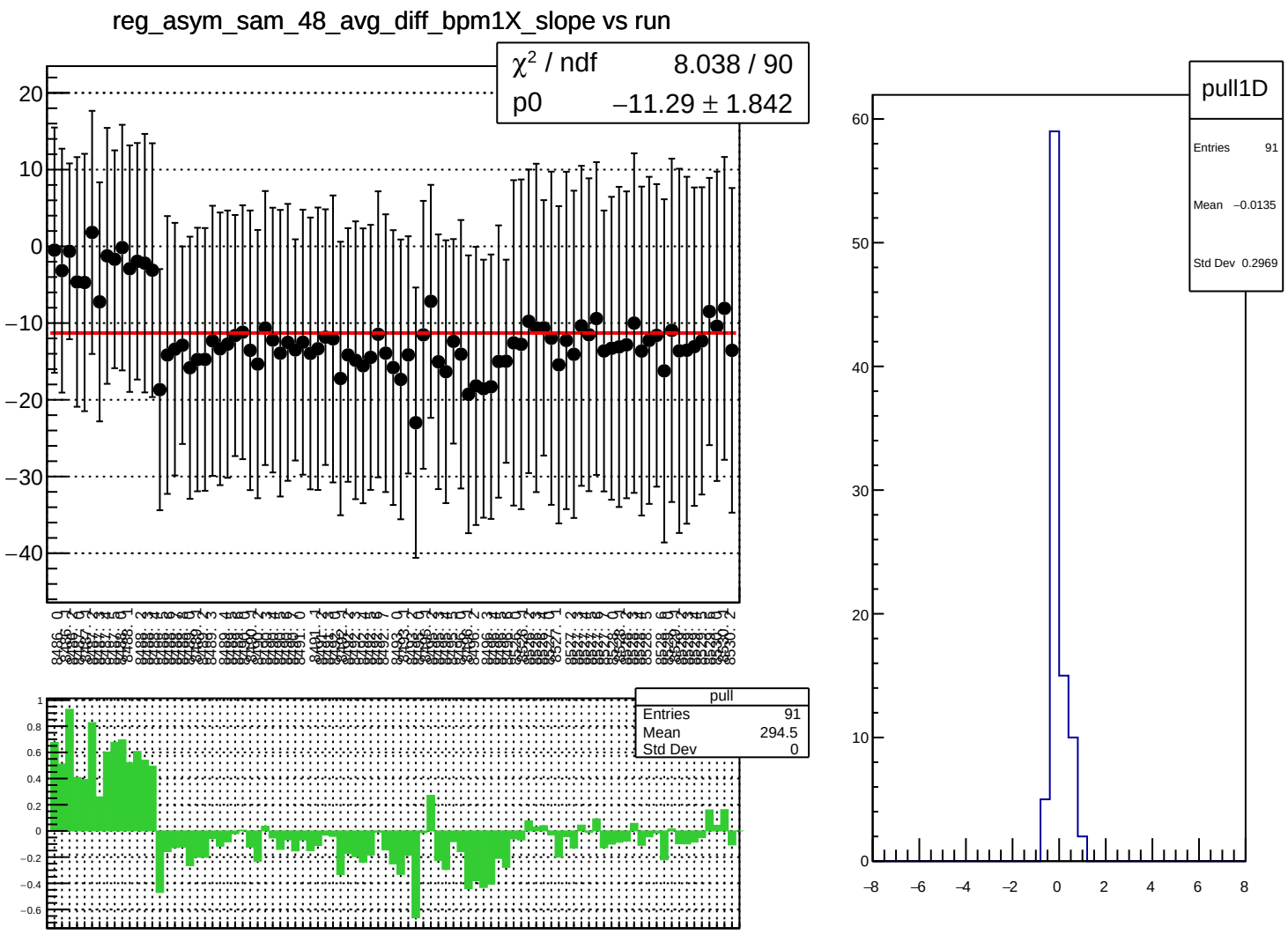

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.67 / 90
p0 −111.8 ± 2.599
pull
Entries 91
Mean 2213
Std Dev 0

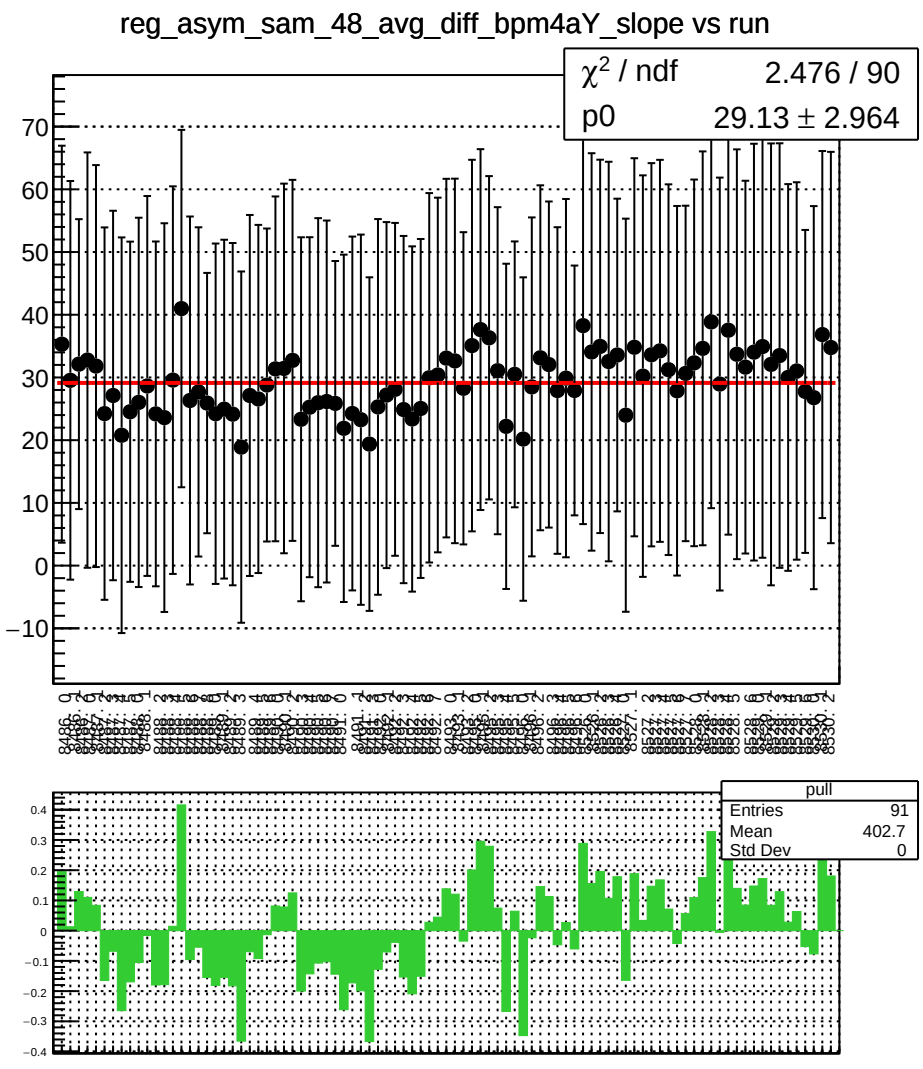

pull1D
Entries 91
Mean 0.00103
Std Dev 0.1355

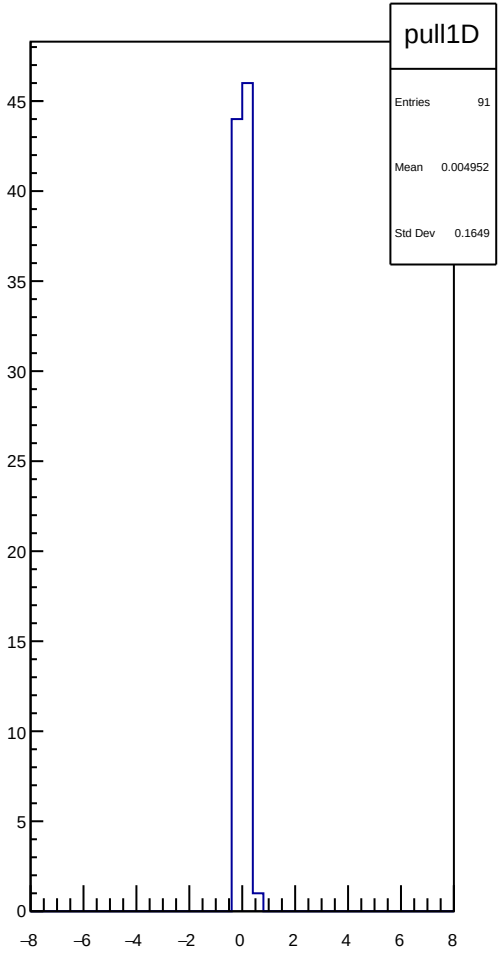

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.33 / 90
p0 −22.33 ± 4.075
pull
Entries 91
Mean 6650
Std Dev 0
pull1D
Entries 91
Mean 0.001005
Std Dev 0.3828

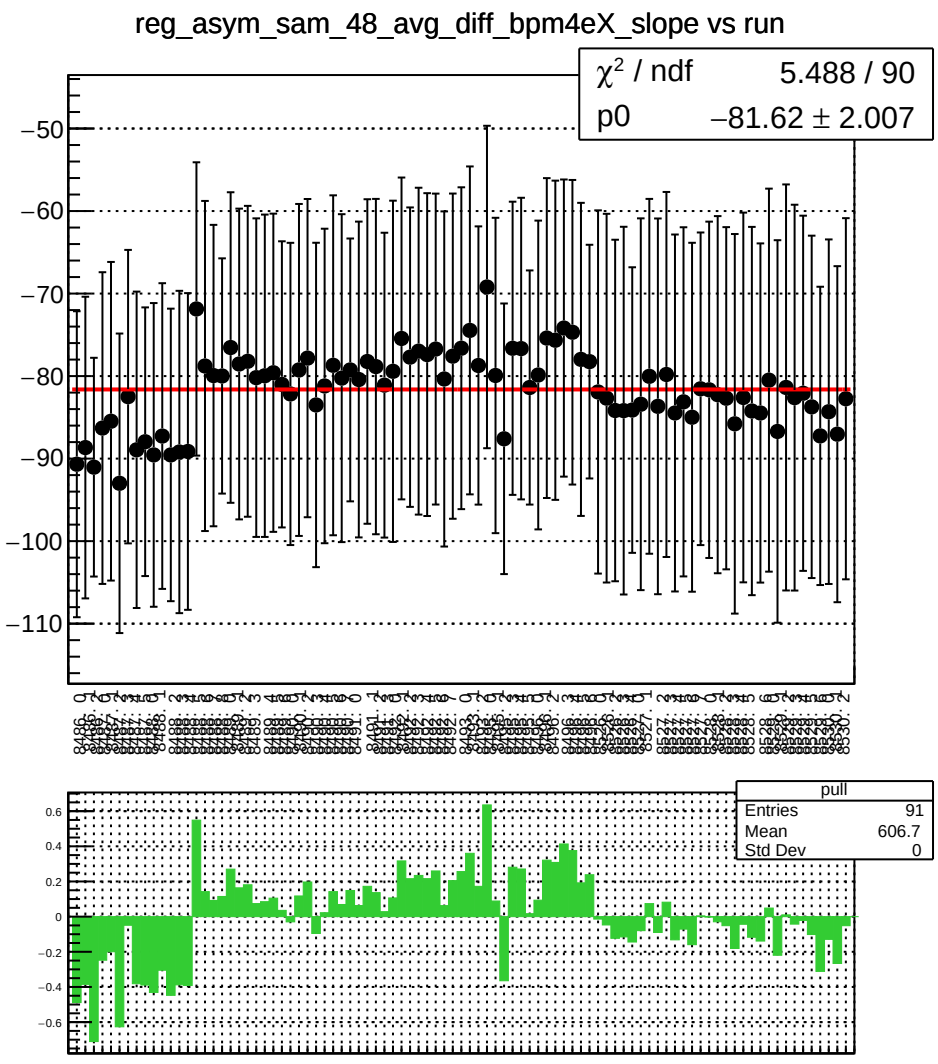

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 5.236 / 90
p0 5.651 ± 0.2431
pull
Entries 91
Mean −122.3
Std Dev 0

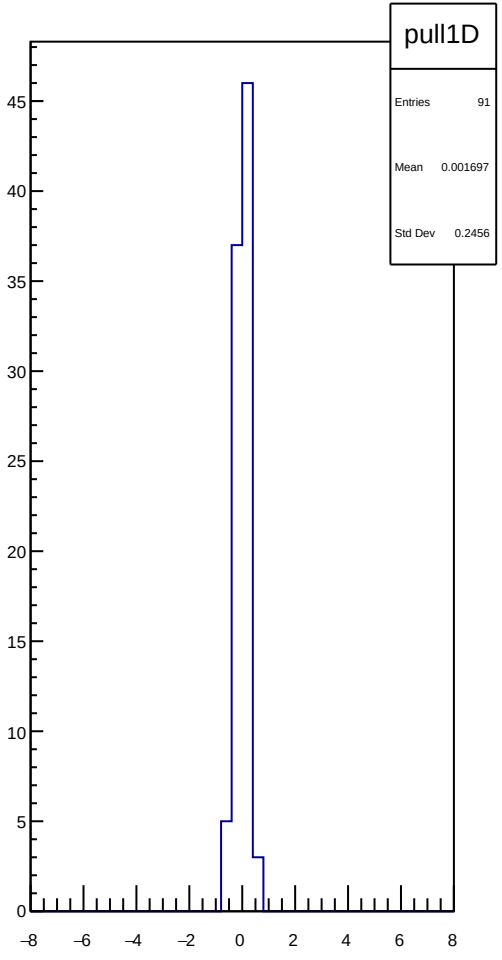

pull1D
Entries 91
Mean 0.01441
Std Dev 0.2394

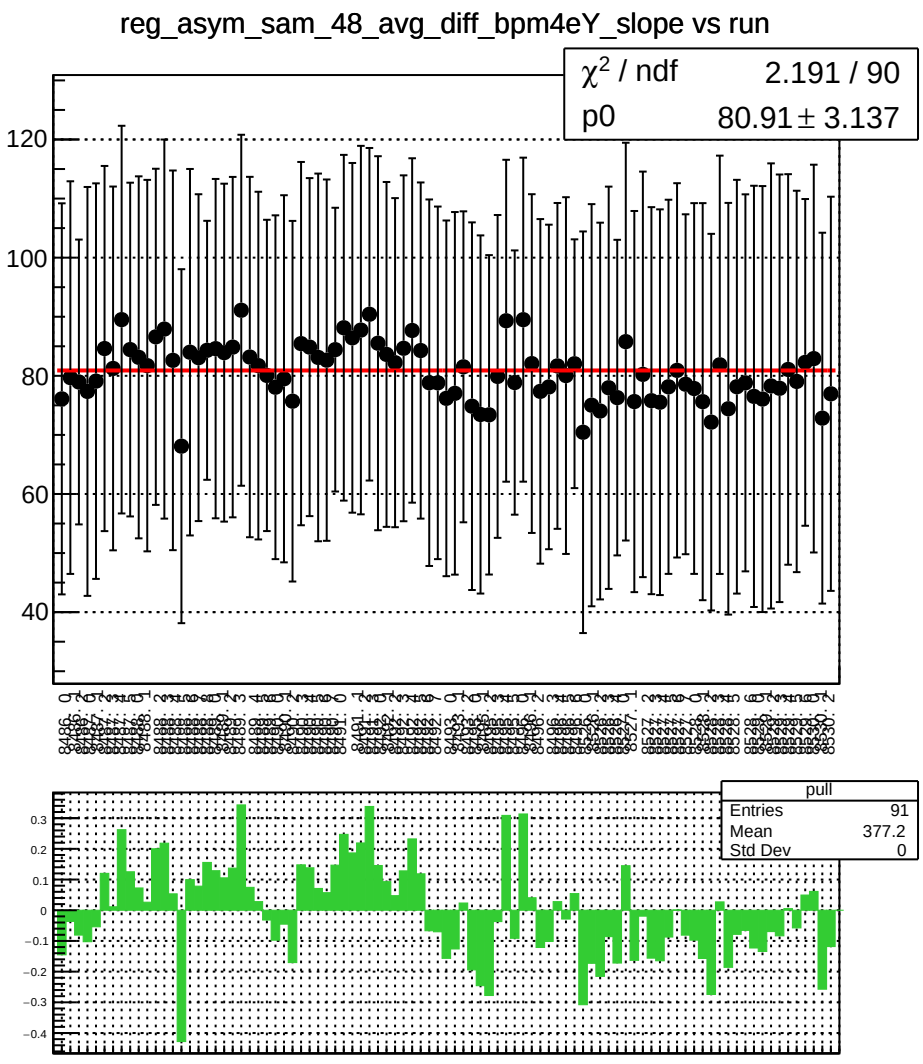

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 8.038 / 90
p0 −11.29 ± 1.842
pull
Entries 91
Mean 294.5
Std Dev 0
pull1D
Entries 91
Mean −0.0135
Std Dev 0.2969

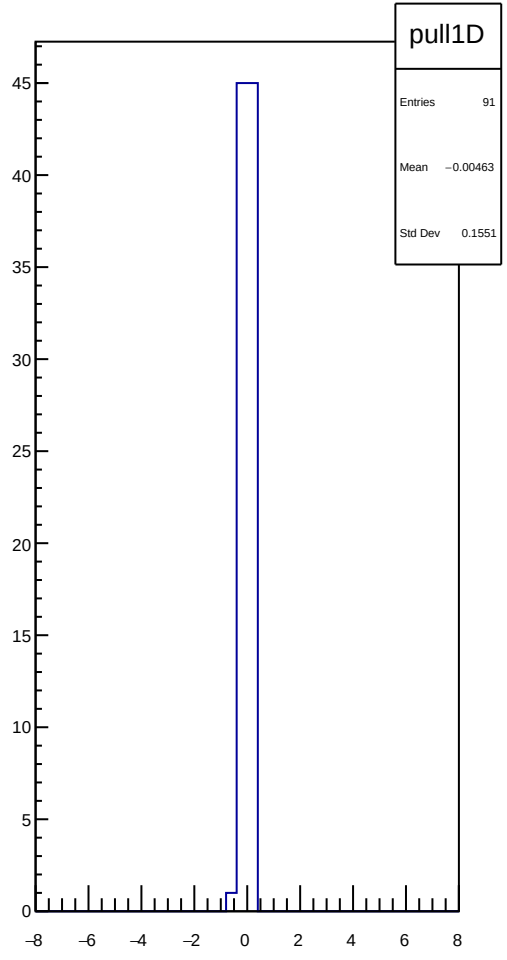

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 2.476 / 90
p0 29.13 ± 2.964
pull
Entries 91
Mean 402.7
Std Dev 0

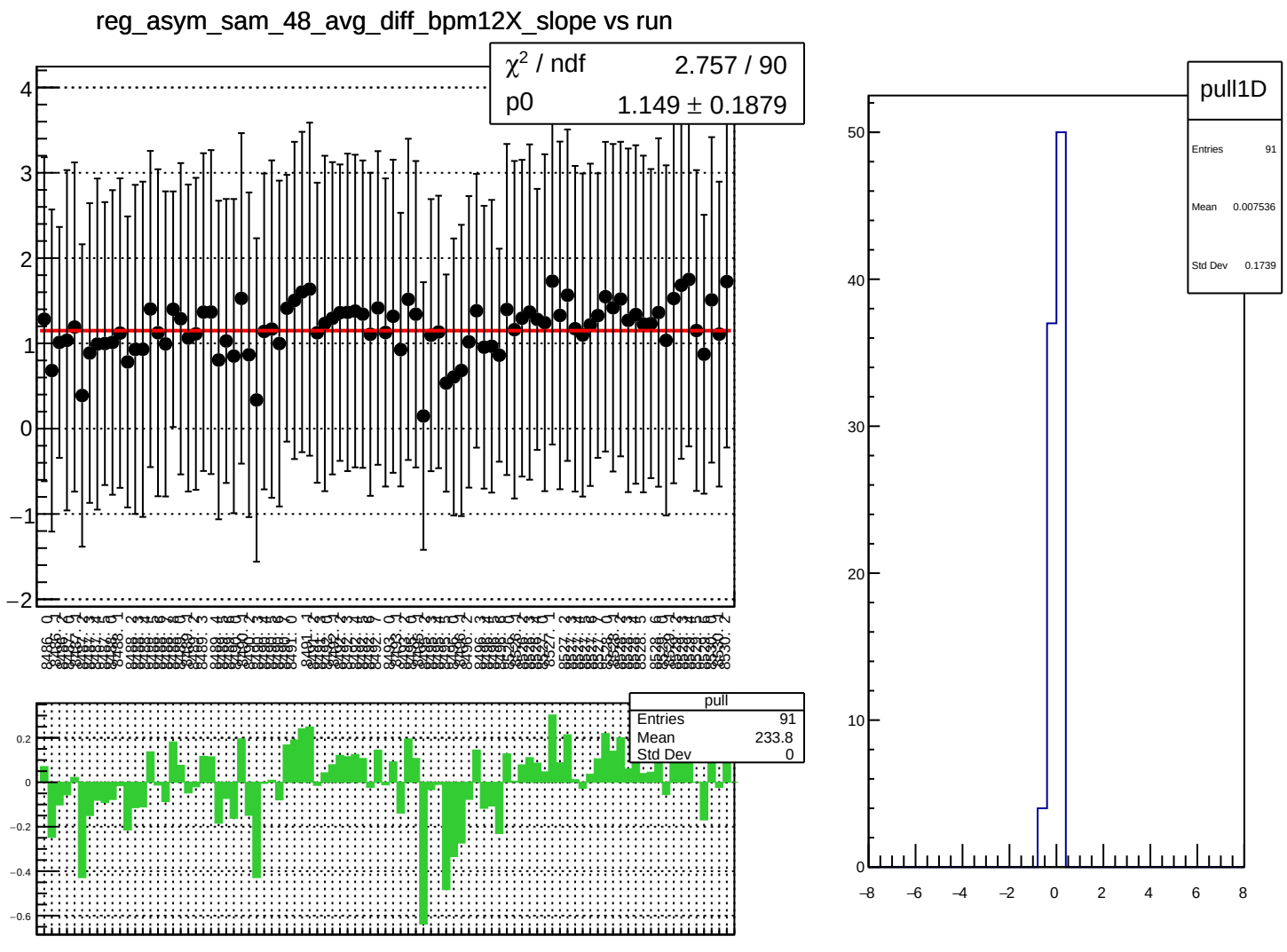

pull1D
Entries 91
Mean 0.004952
Std Dev 0.1649

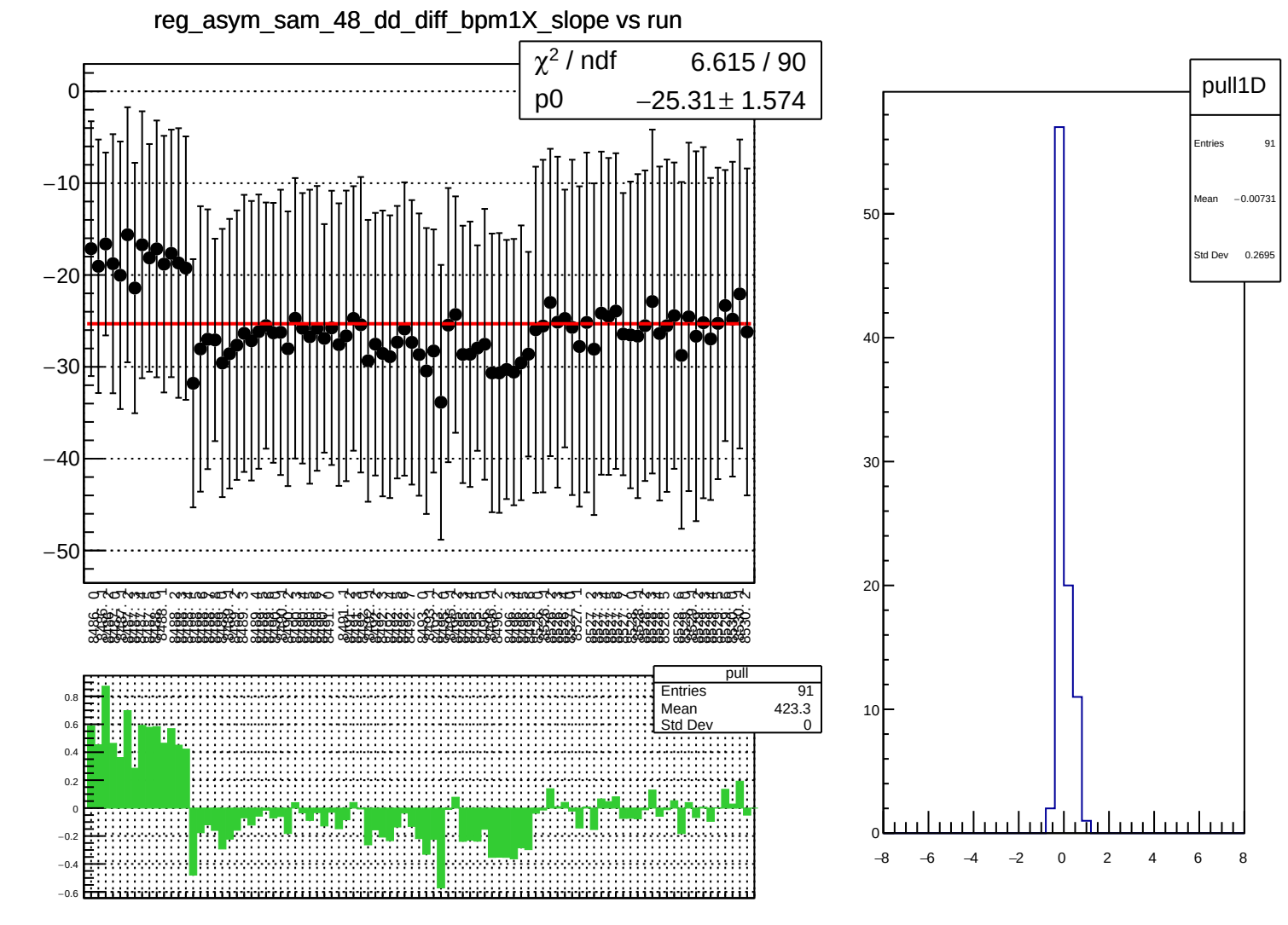

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.488 / 90
p0 −81.62 ± 2.007
−50
−60
−70
−80
−90
−100
−110
pull
Entries 91
Mean 606.7
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

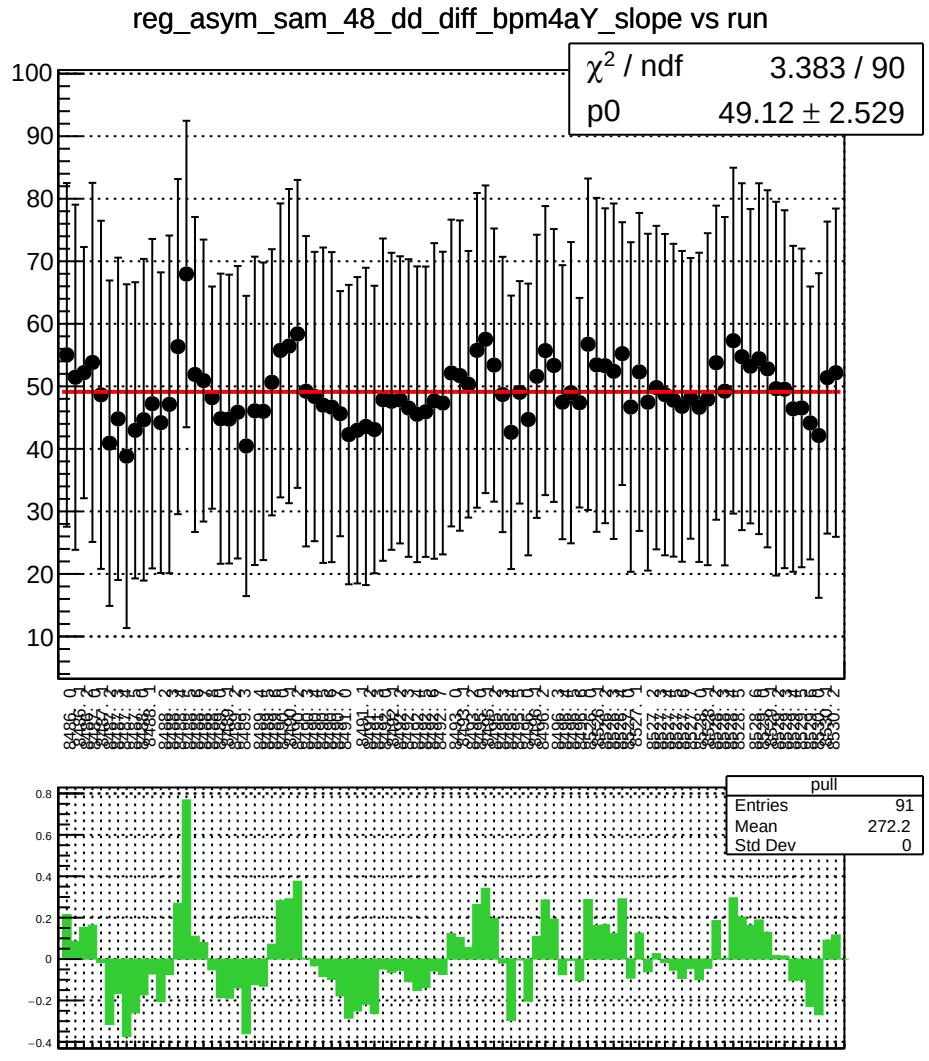

pull1D
Entries 91
Mean 0.001697
Std Dev 0.2456
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

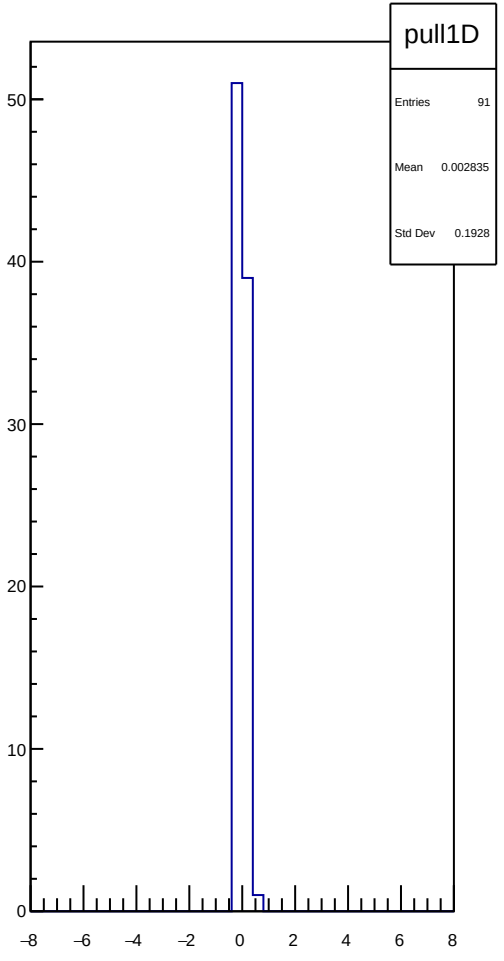

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.191 / 90
p0 80.91 ± 3.137
120
100
80
60
40
pull
Entries 91
Mean 377.2
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

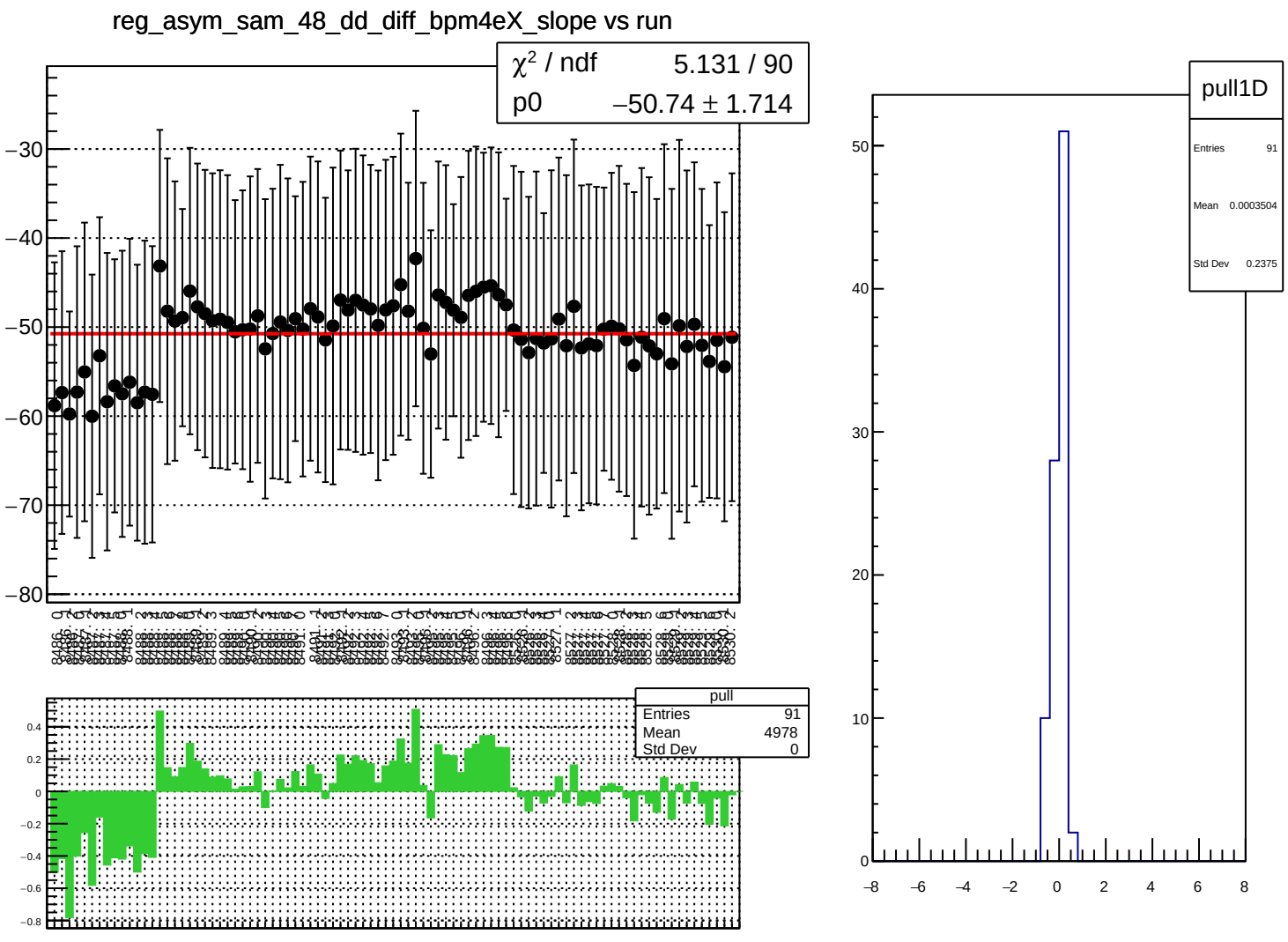

pull1D
Entries 91
Mean −0.00463
Std Dev 0.1551
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

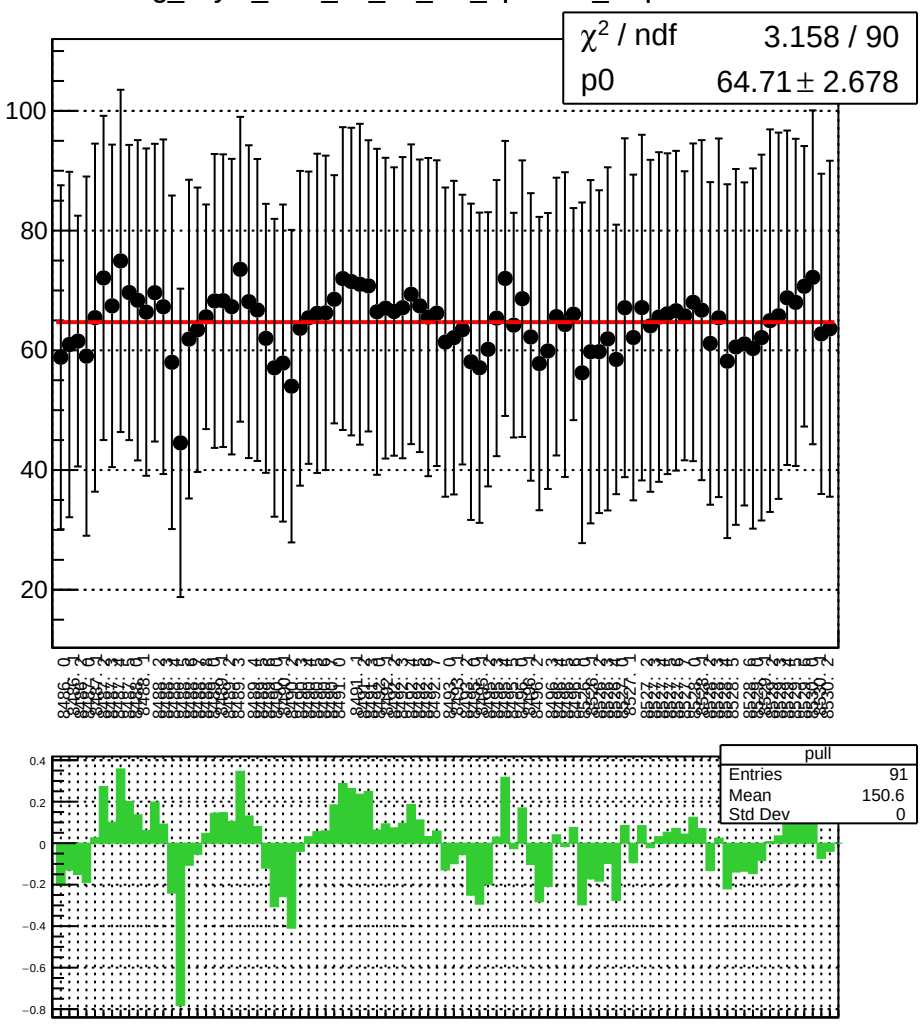

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 2.757 / 90
p0 1.149 ± 0.1879
pull
Entries 91
Mean 233.8
Std Dev 0
pull1D
Entries 91
Mean 0.007536
Std Dev 0.1739

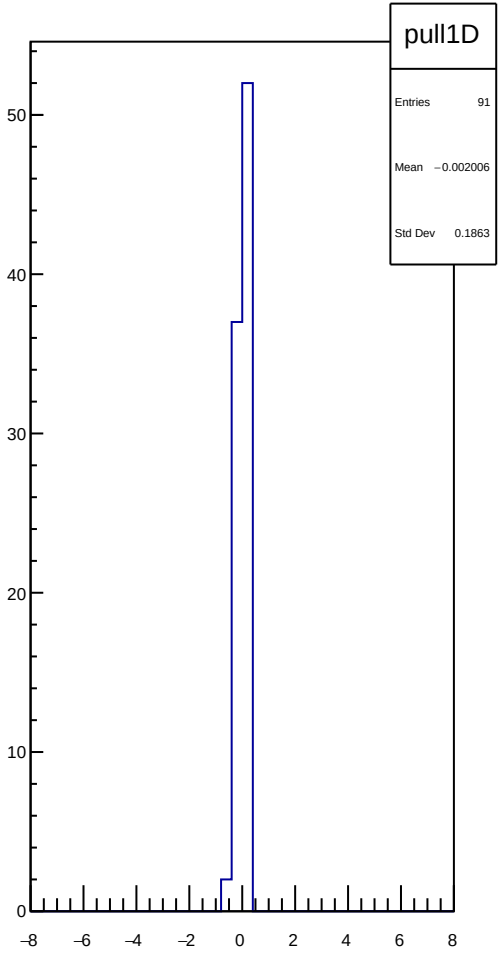

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 6.615 / 90
p0 −25.31 ± 1.574
pull
Entries 91
Mean 423.3
Std Dev 0
pull1D
Entries 91
Mean −0.00731
Std Dev 0.2695

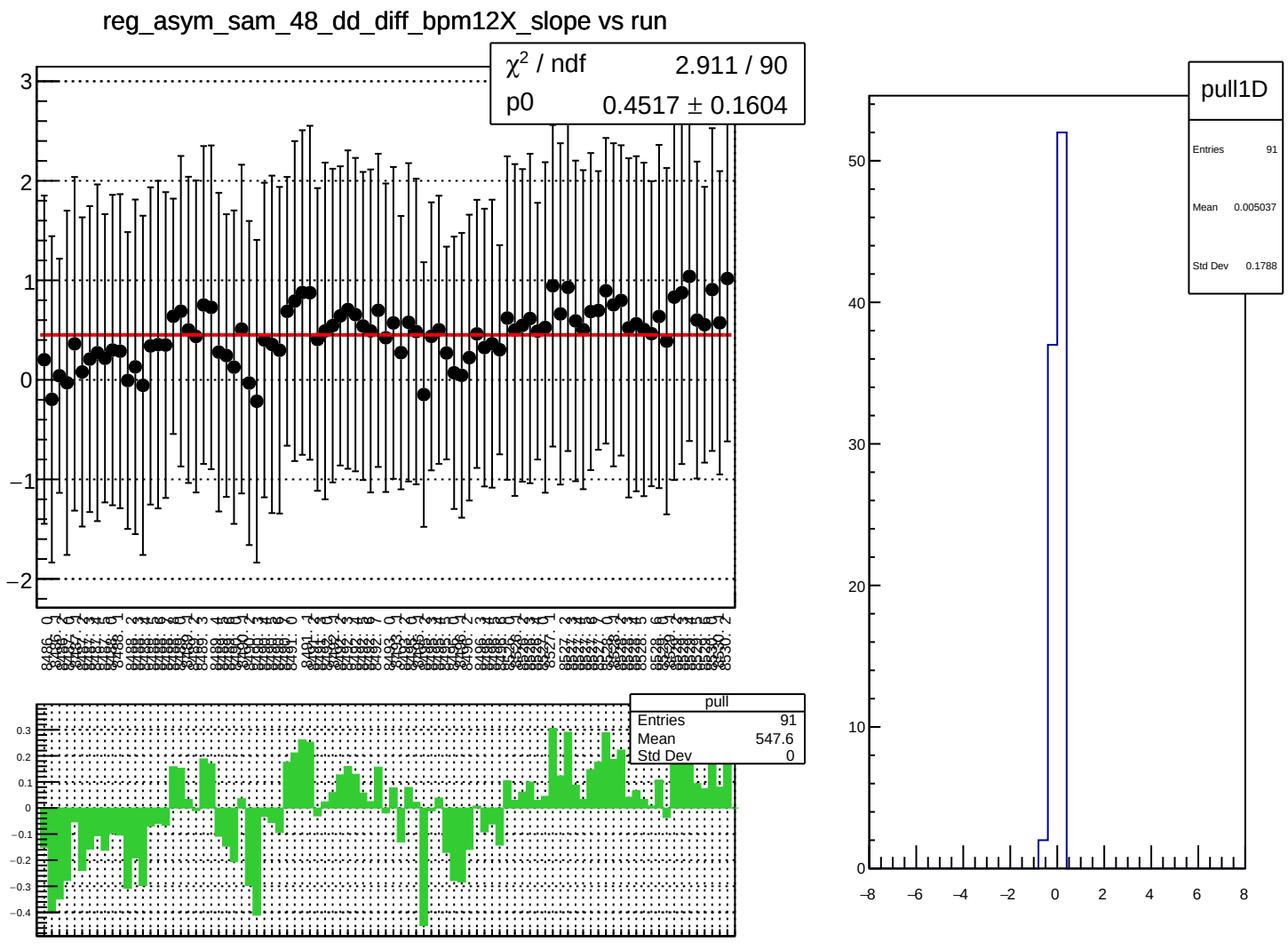

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.383 / 90
p0 49.12 ± 2.529
pull
Entries 91
Mean 272.2
Std Dev 0

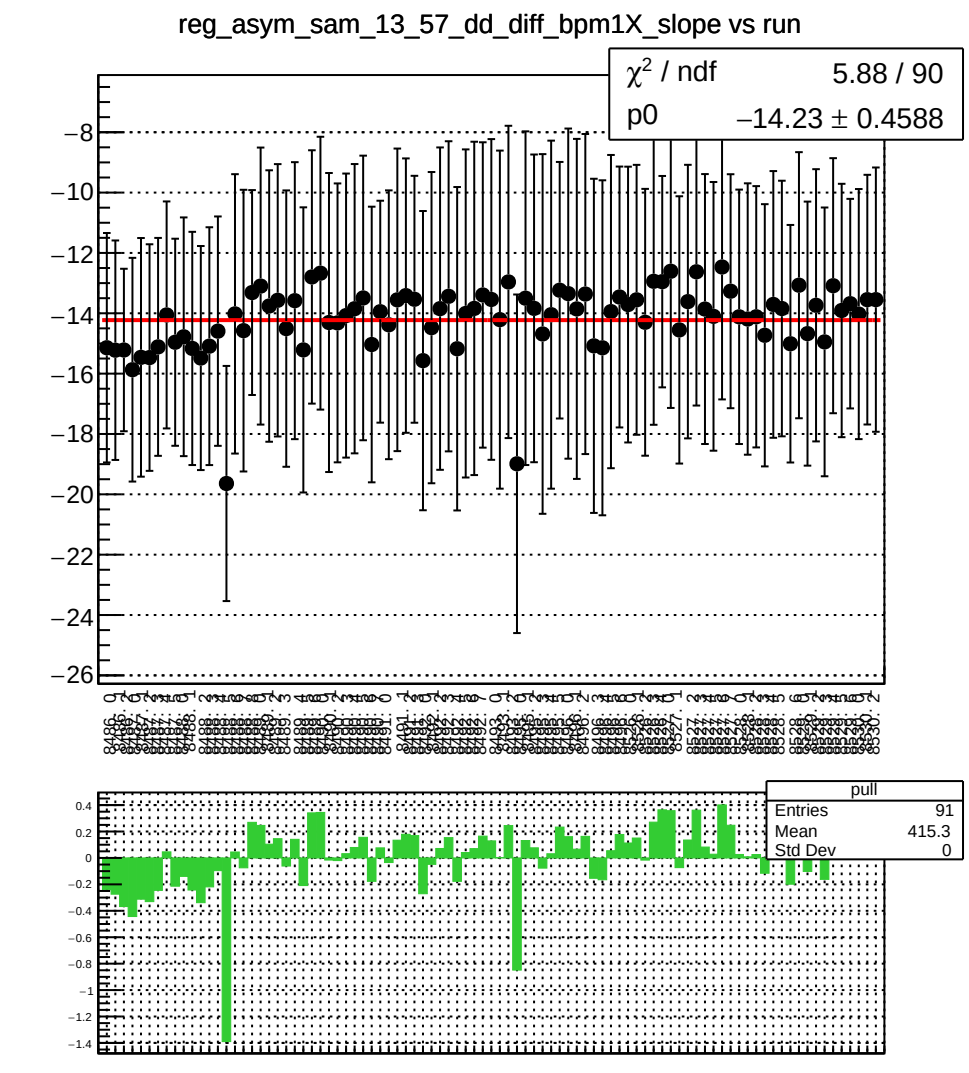

pull1D
Entries 91
Mean 0.002835
Std Dev 0.1928

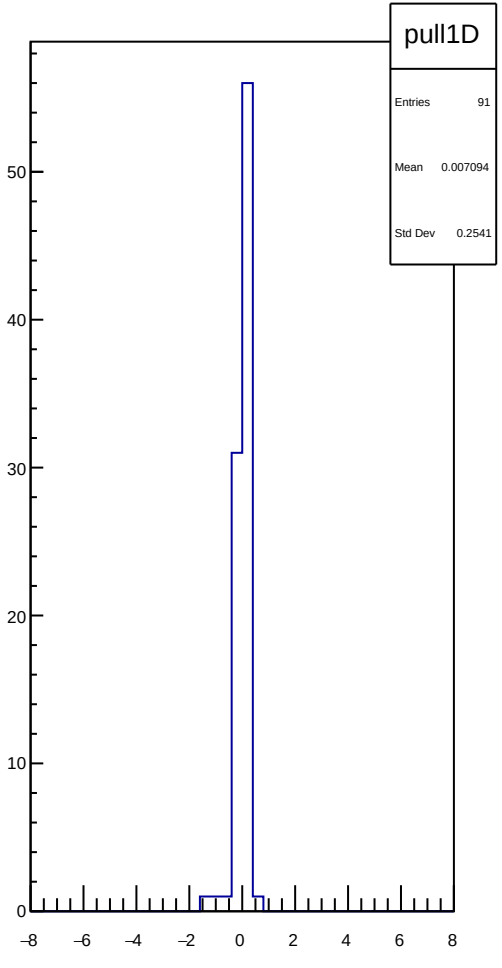

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.131 / 90
p0 −50.74 ± 1.714
pull
Entries 91
Mean 4978
Std Dev 0
pull1D
Entries 91
Mean 0.0003504
Std Dev 0.2375

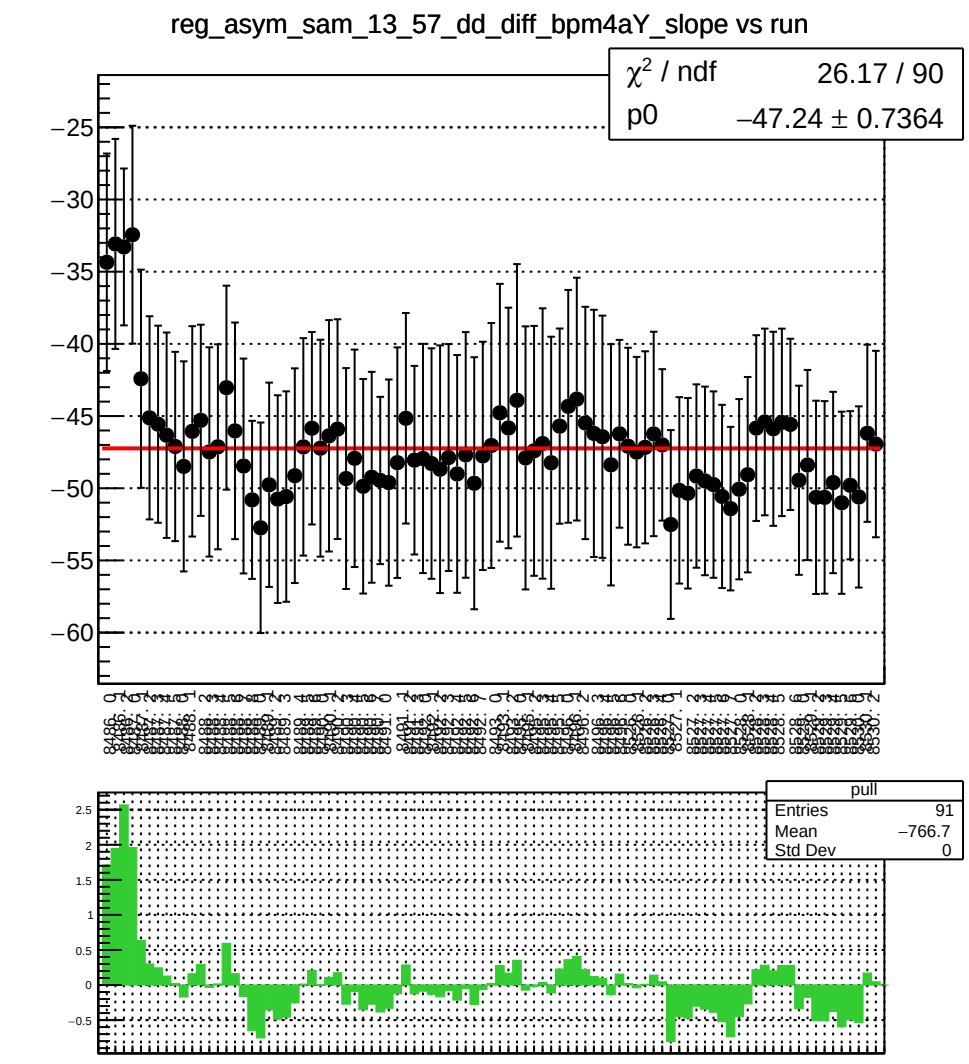

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.158 / 90
p0 64.71 ± 2.678
pull
Entries 91
Mean 150.6
Std Dev 0

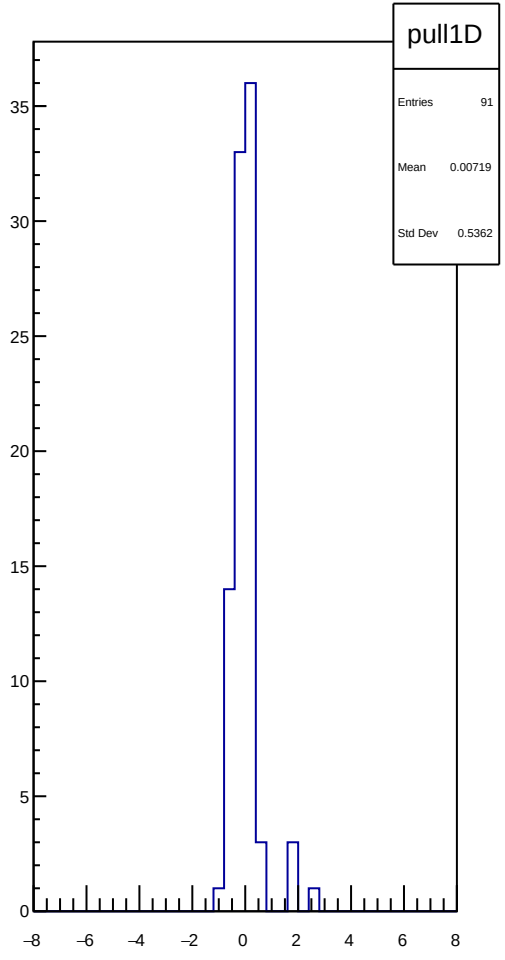

pull1D
Entries 91
Mean −0.002006
Std Dev 0.1863

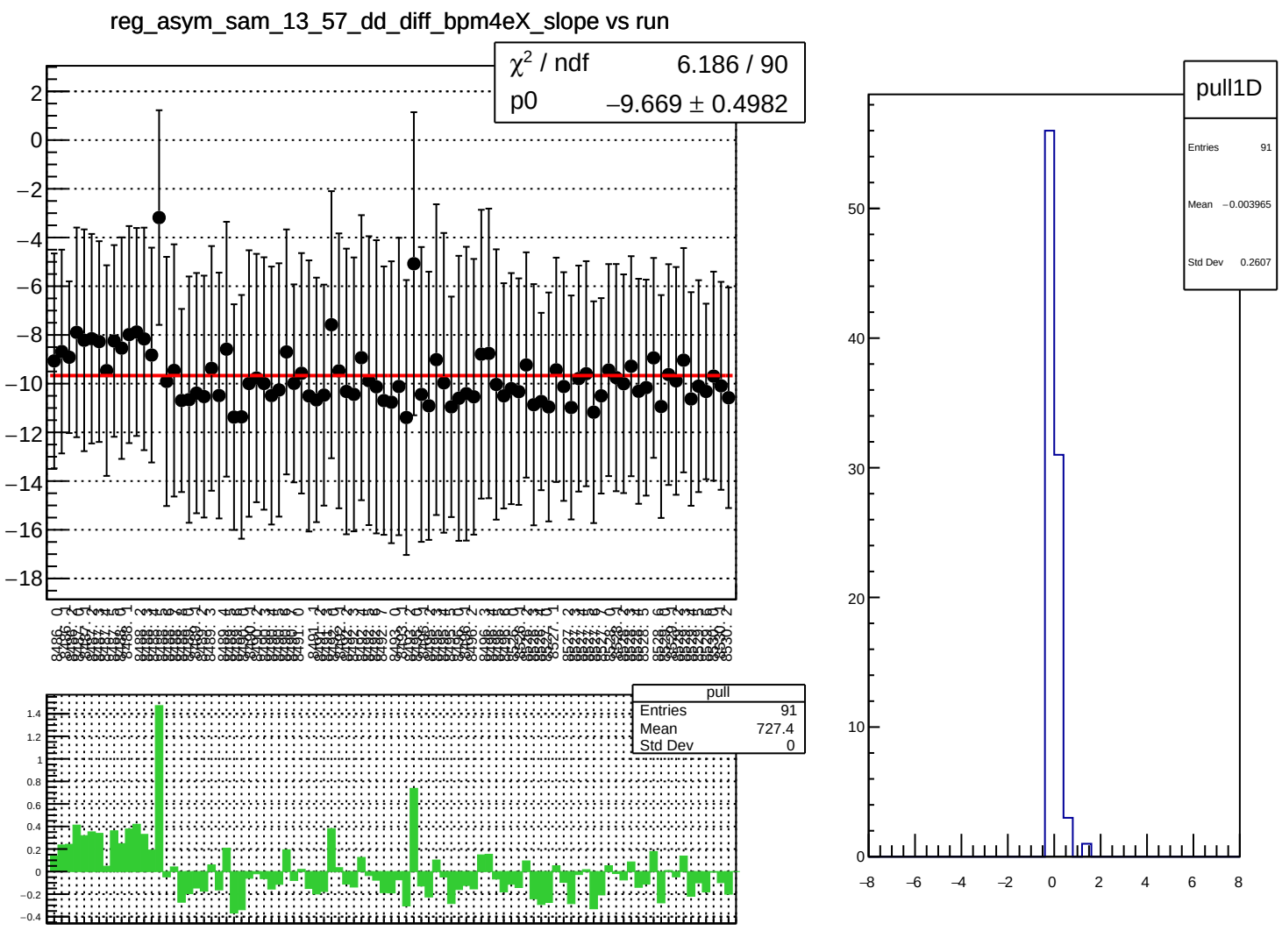

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 2.911 / 90
p0 0.4517 ± 0.1604
pull
Entries 91
Mean 547.6
Std Dev 0
pull1D
Entries 91
Mean 0.005037
Std Dev 0.1788

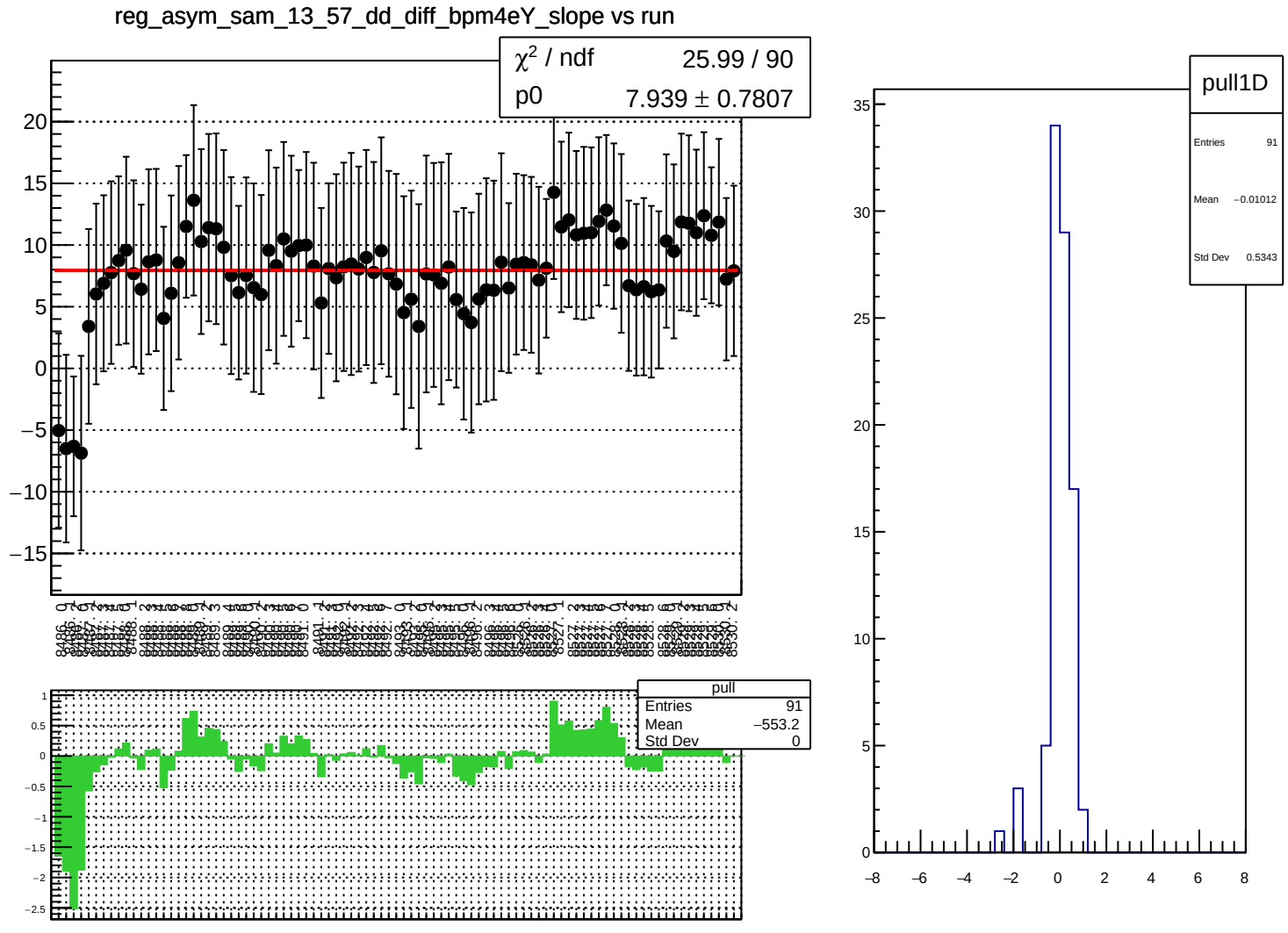

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 5.88 / 90
p0 −14.23 ± 0.4588
pull
Entries 91
Mean 415.3
Std Dev 0

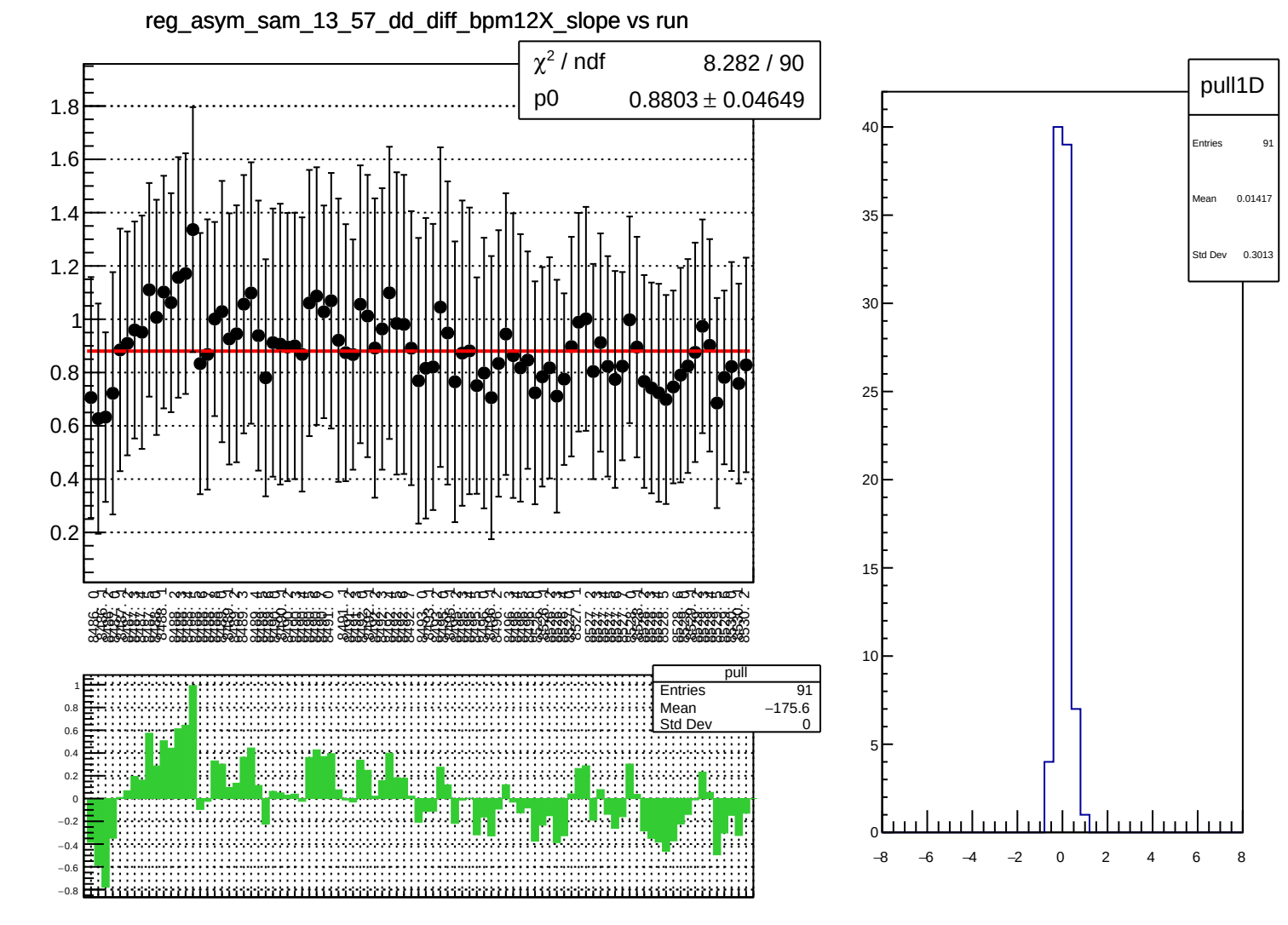

pull1D
Entries 91
Mean 0.007094
Std Dev 0.2541

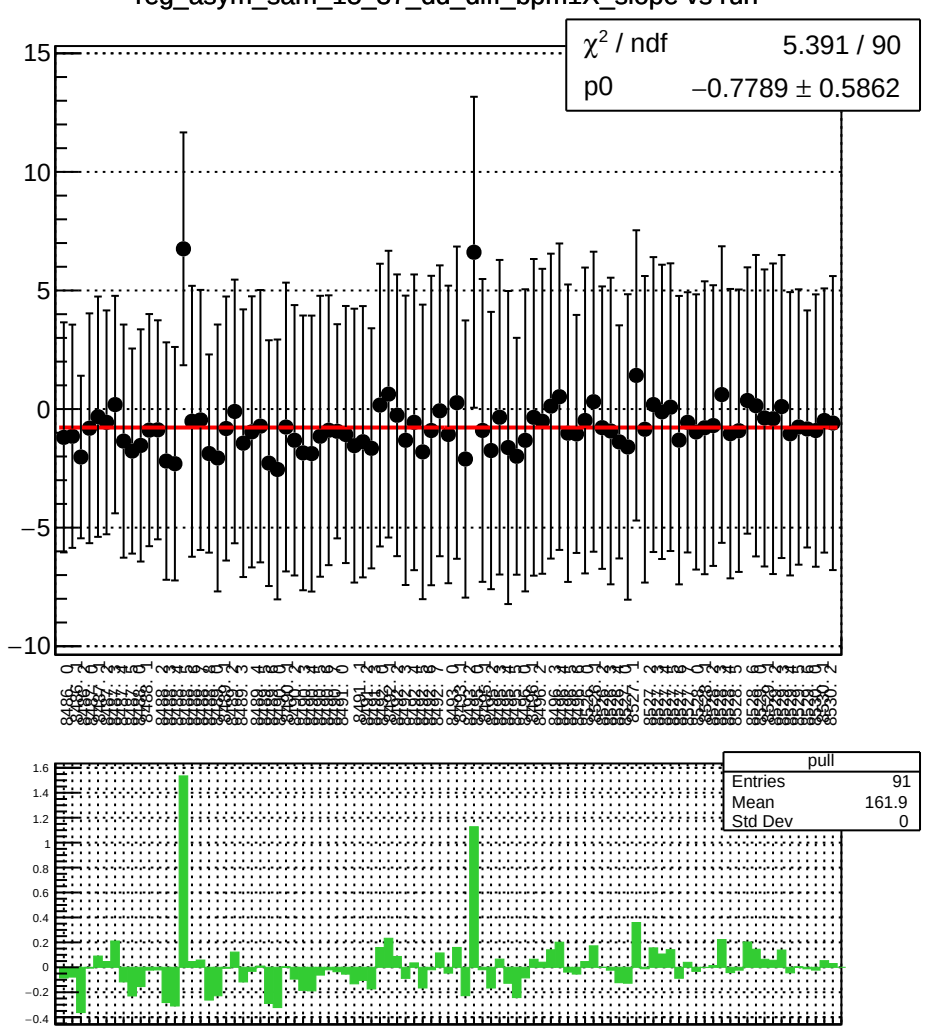

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 26.17 / 90
p0 −47.24 ± 0.7364
pull
Entries 91
Mean −766.7
Std Dev 0

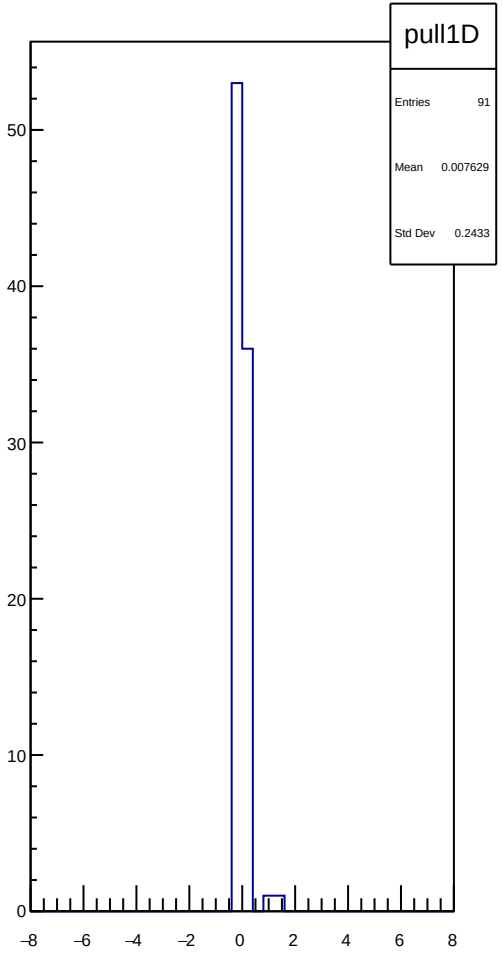

pull1D
Entries 91
Mean 0.00719
Std Dev 0.5362

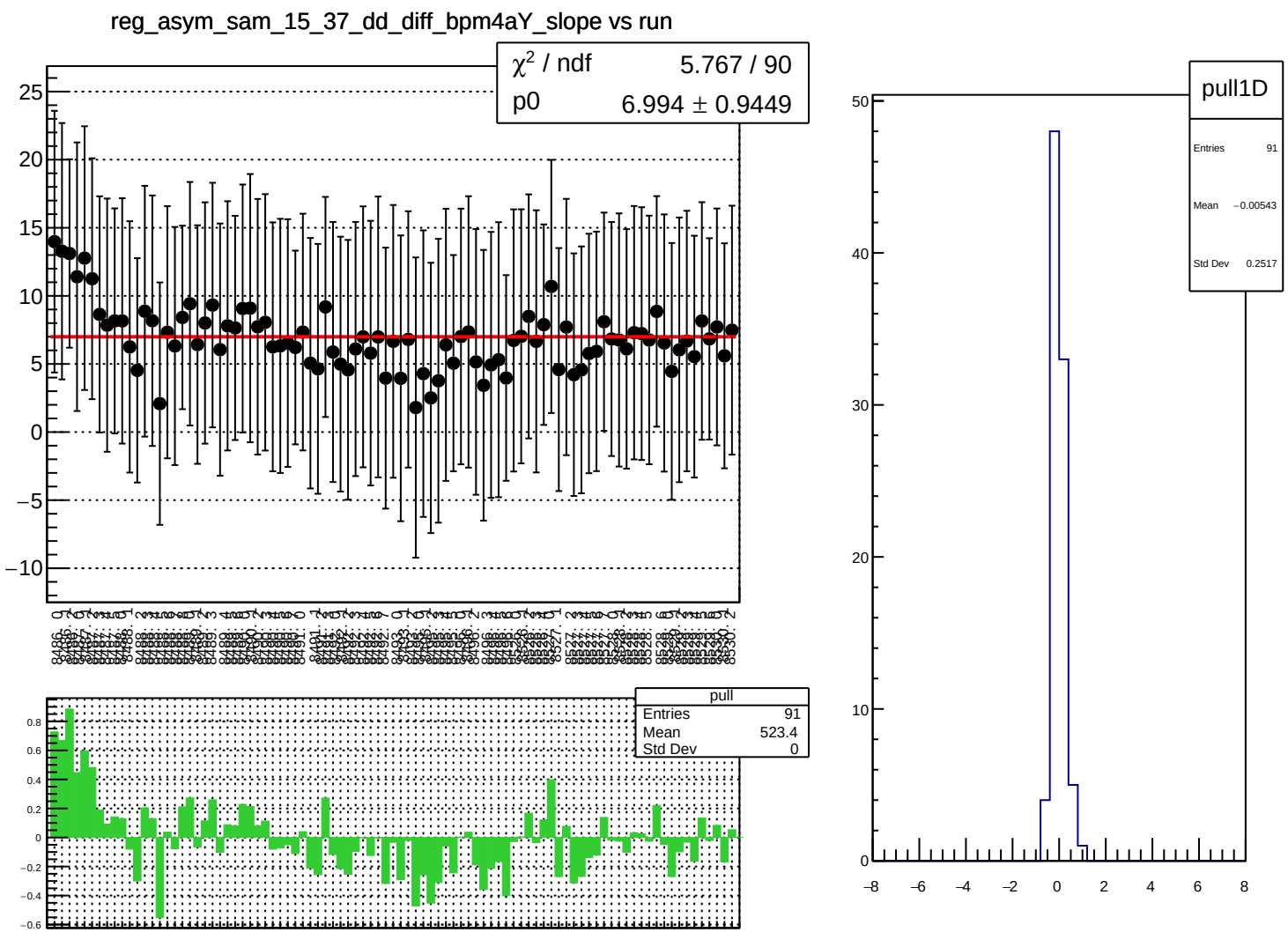

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.186 / 90
p0 −9.669 ± 0.4982
pull
Entries 91
Mean 727.4
Std Dev 0
pull1D
Entries 91
Mean −0.003965
Std Dev 0.2607

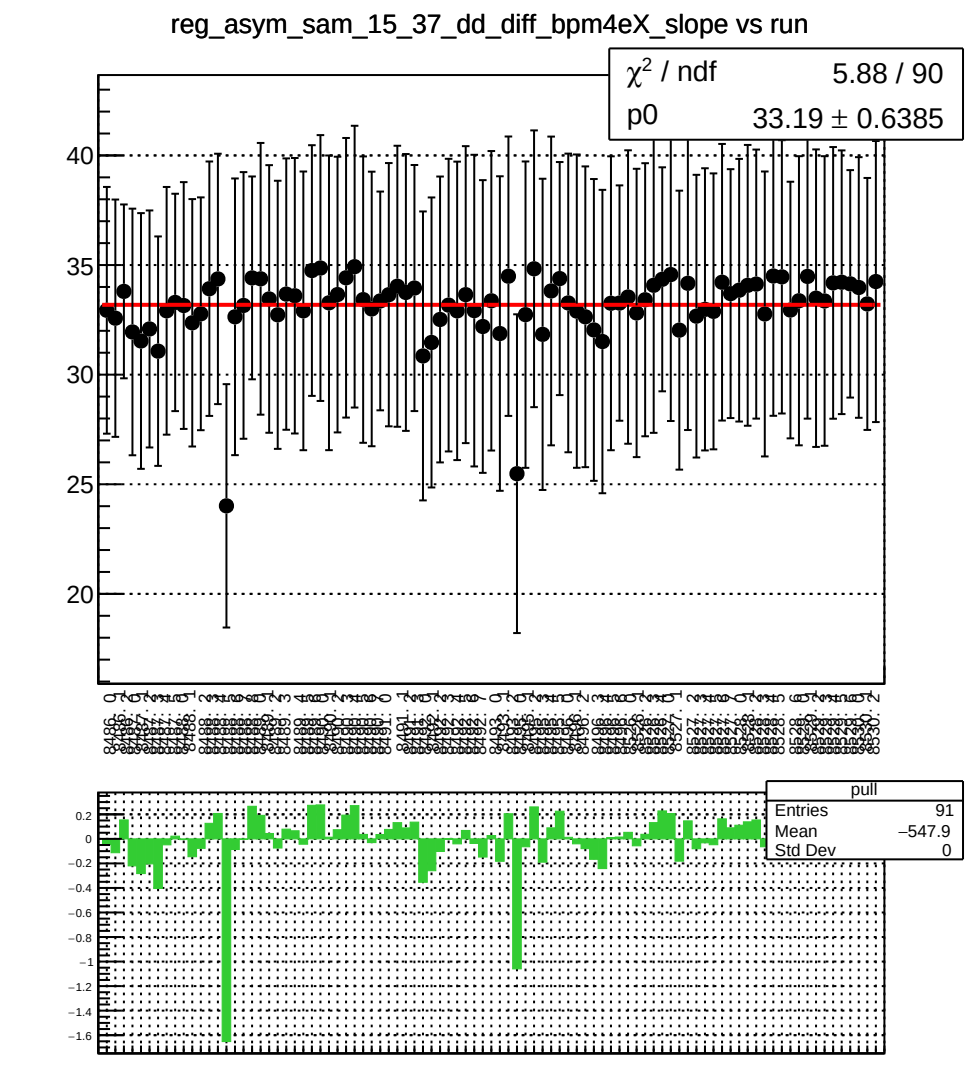

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 25.99 / 90
p0 7.939 ± 0.7807
pull
Entries 91
Mean −553.2
Std Dev 0
pull1D
Entries 91
Mean −0.01012
Std Dev 0.5343

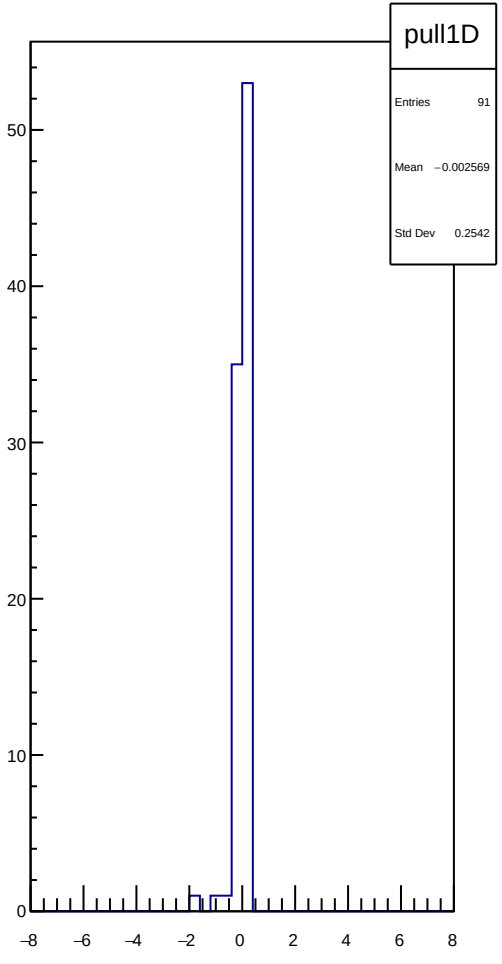

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 8.282 / 90
p0 0.8803 ± 0.04649
pull
Entries 91
Mean −175.6
Std Dev 0
pull1D
Entries 91
Mean 0.01417
Std Dev 0.3013

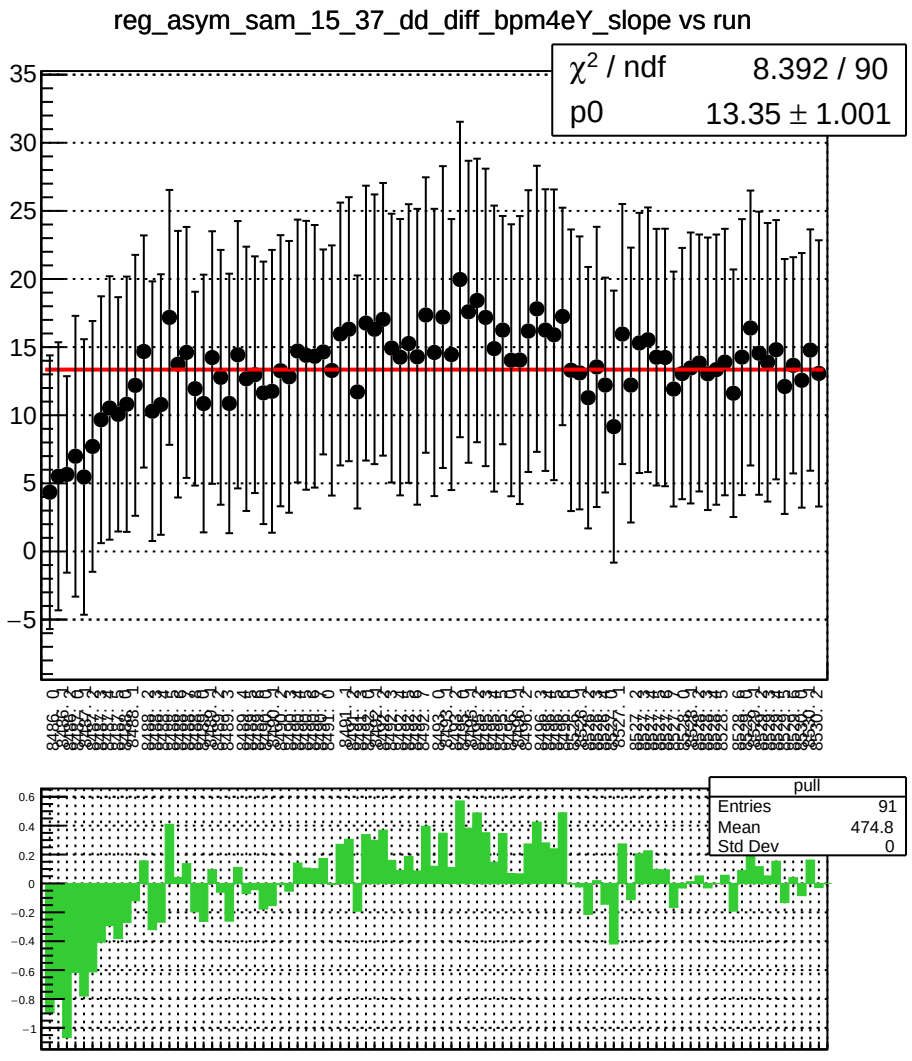

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 5.391 / 90
p0 −0.7789 ± 0.5862
pull
Entries 91
Mean 161.9
Std Dev 0

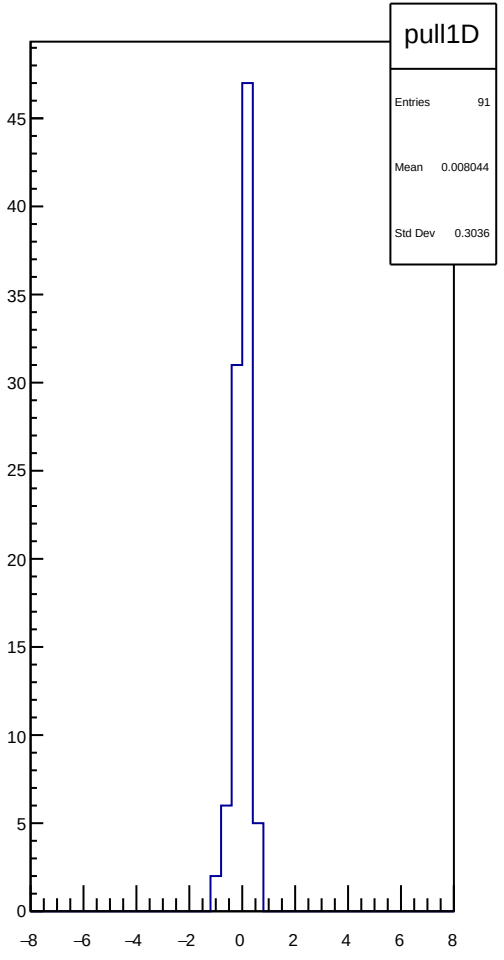

pull1D
Entries 91
Mean 0.007629
Std Dev 0.2433

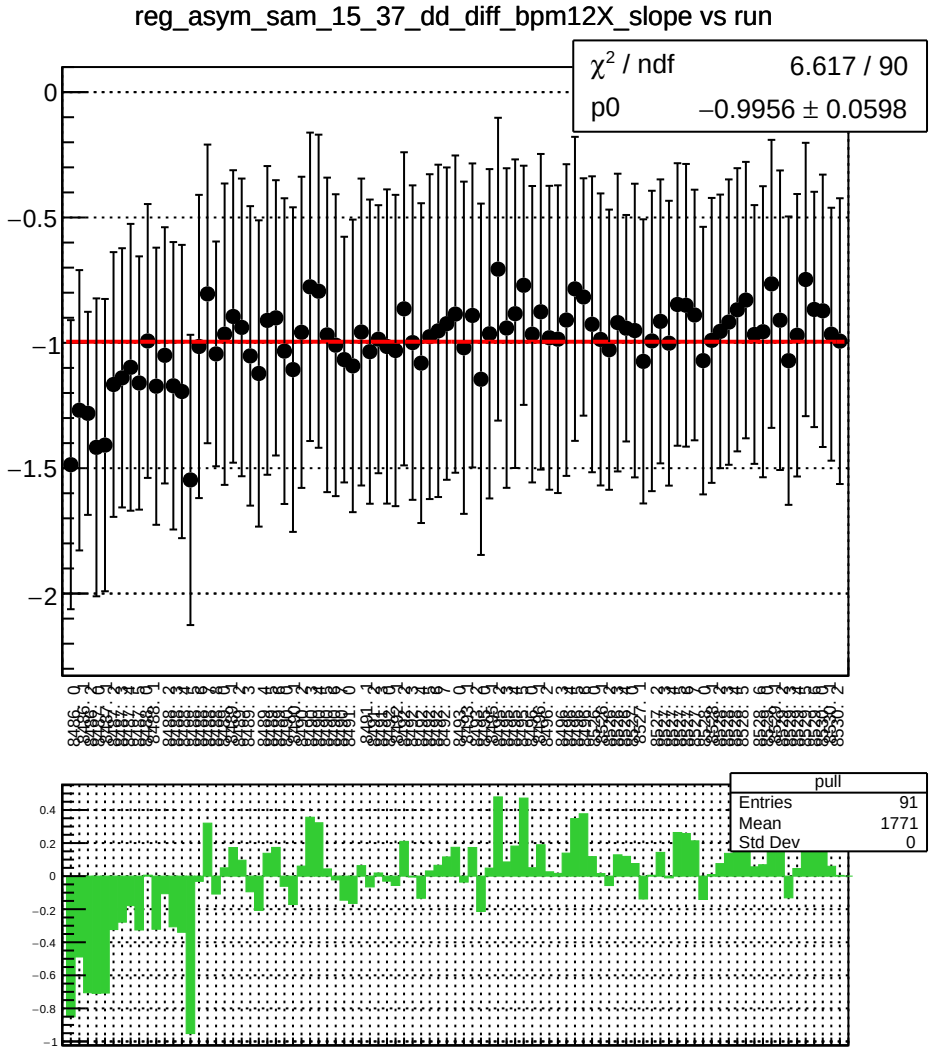

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.767 / 90
p0 6.994 ± 0.9449
pull
Entries 91
Mean 523.4
Std Dev 0
pull1D
Entries 91
Mean −0.00543
Std Dev 0.2517

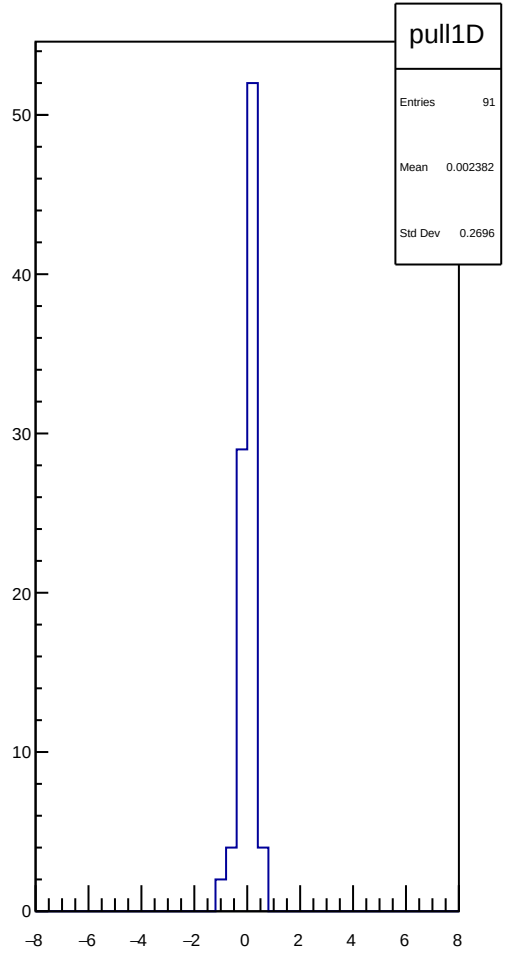

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.88 / 90
p0 33.19 ± 0.6385
pull
Entries 91
Mean −547.9
Std Dev 0

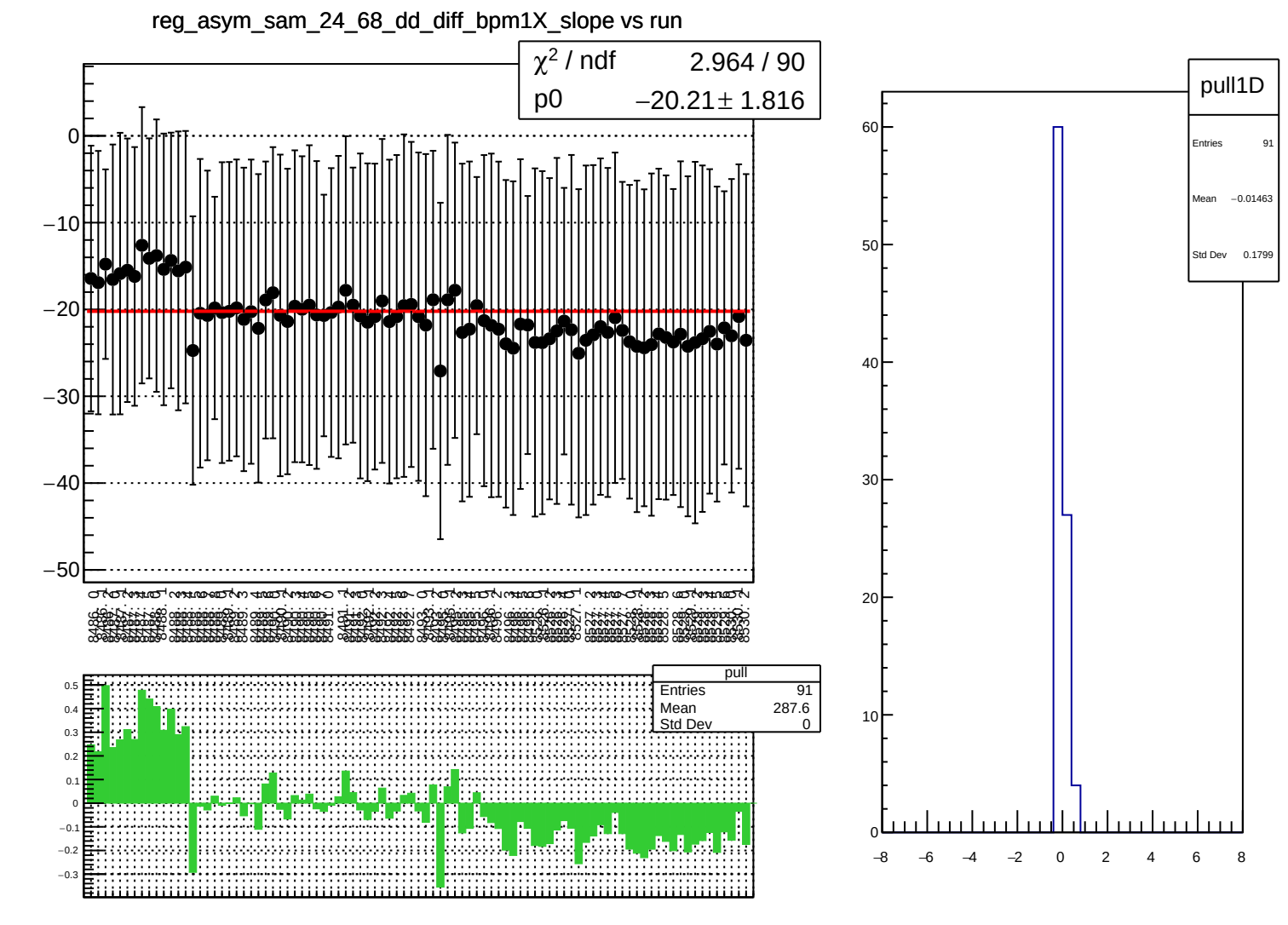

pull1D
Entries 91
Mean −0.002569
Std Dev 0.2542

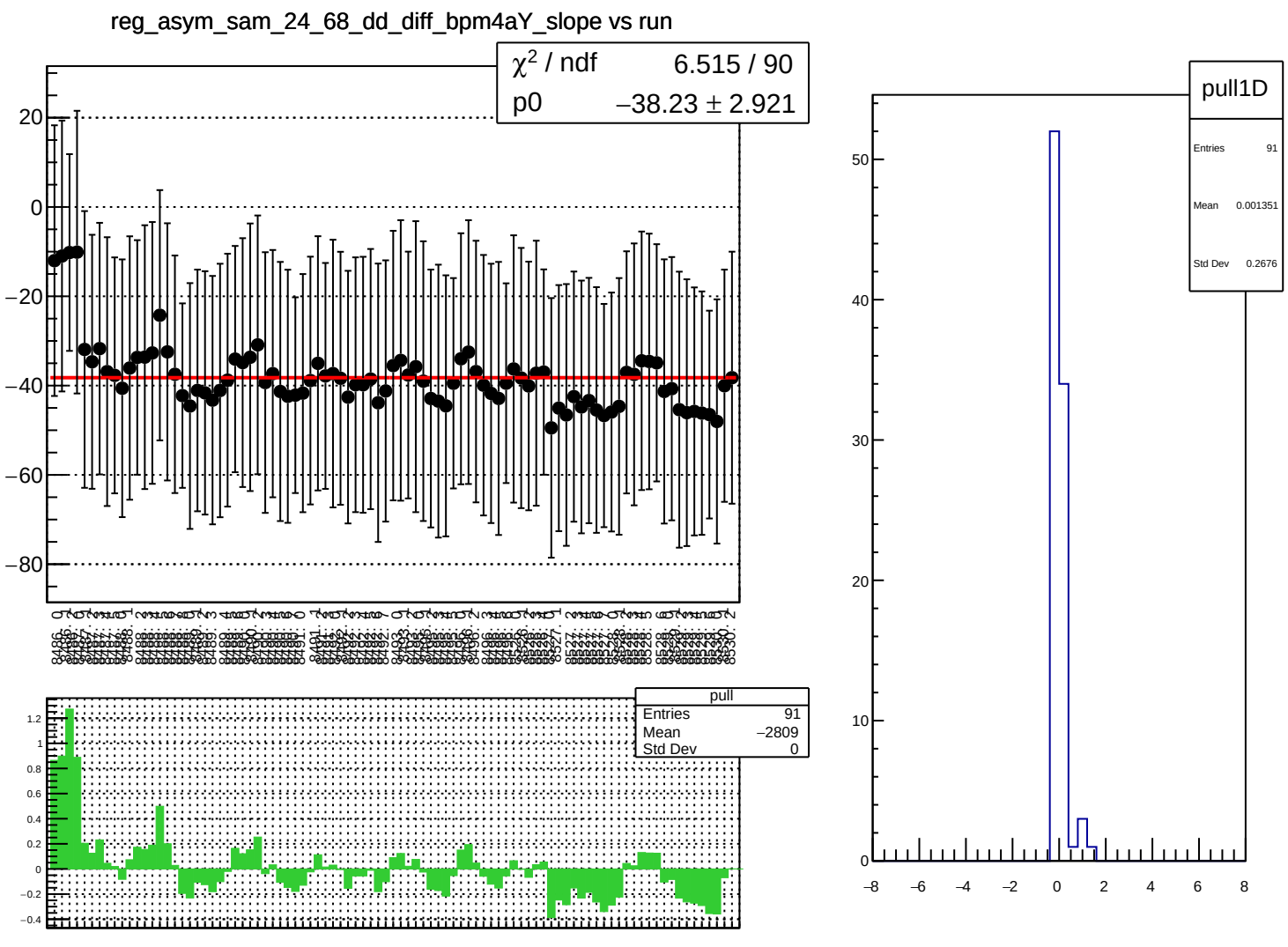

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.392 / 90
p0 13.35 ± 1.001
pull
Entries 91
Mean 474.8
Std Dev 0

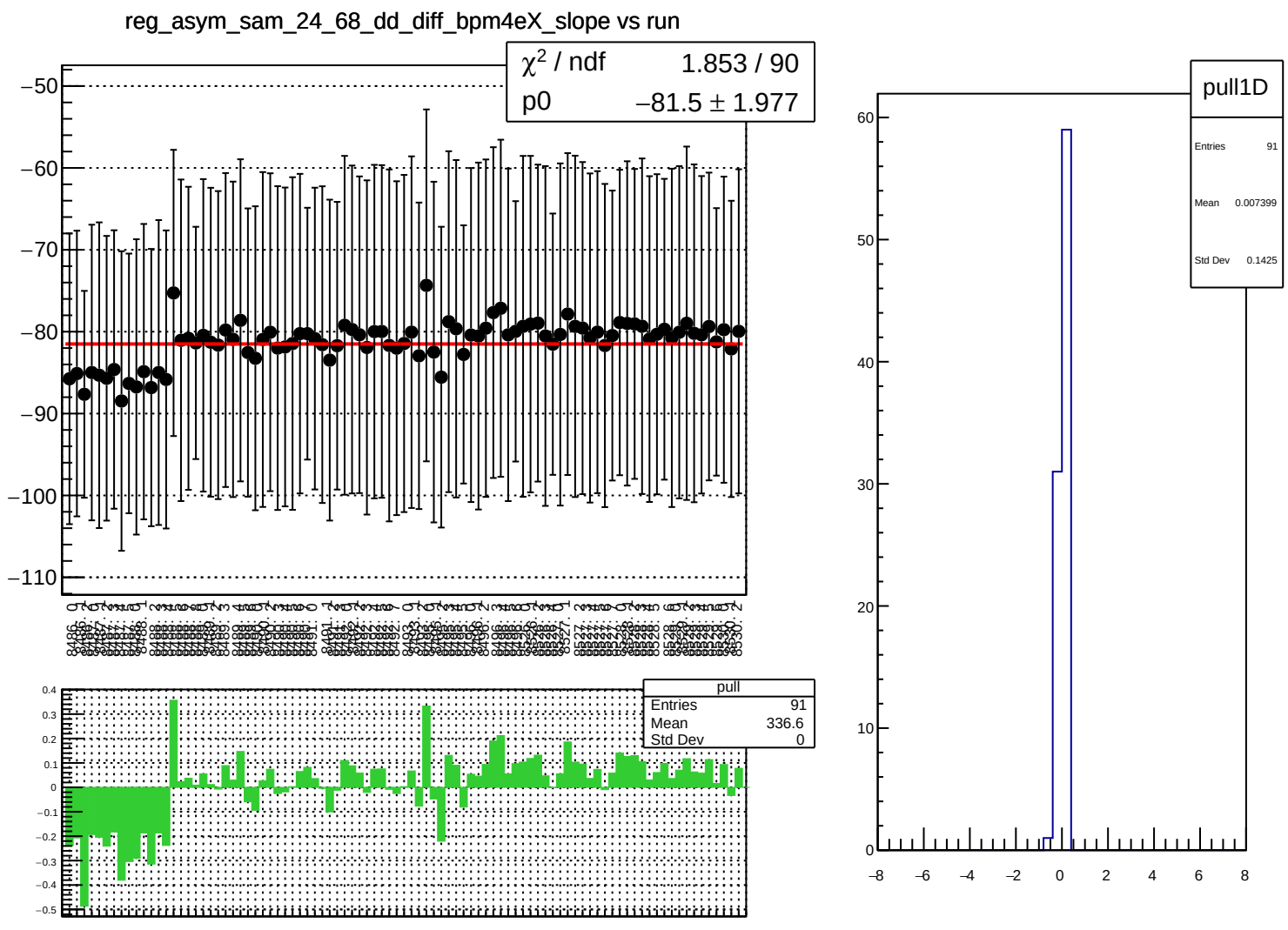

pull1D
Entries 91
Mean 0.008044
Std Dev 0.3036

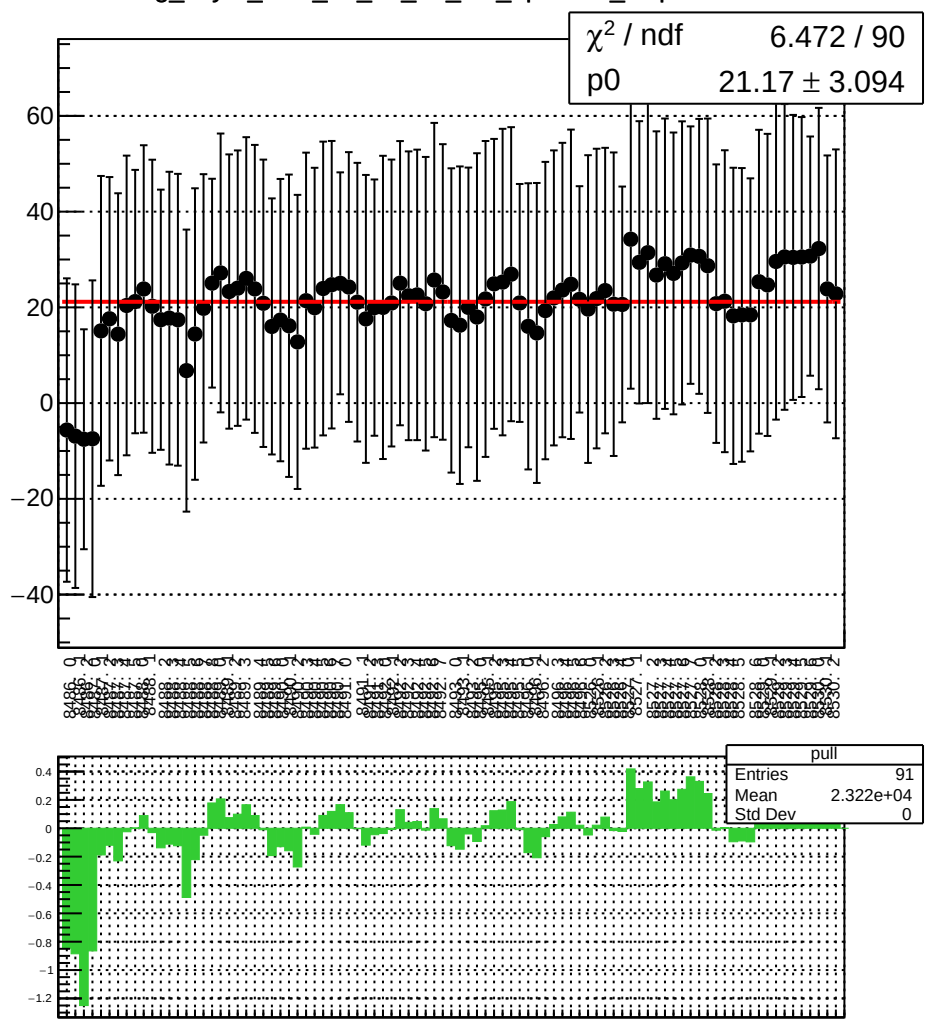

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 6.617 / 90
p0 −0.9956 ± 0.0598
pull
Entries 91
Mean 1771
Std Dev 0

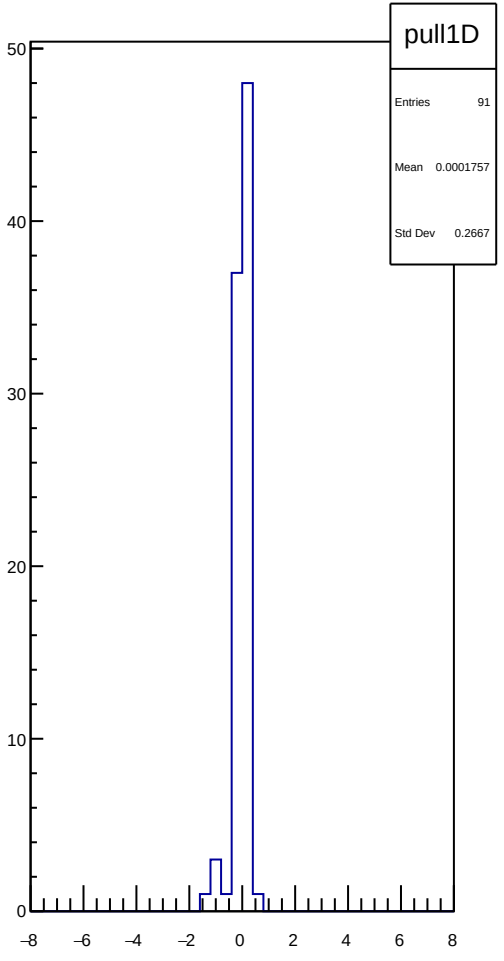

pull1D
Entries 91
Mean 0.002382
Std Dev 0.2696

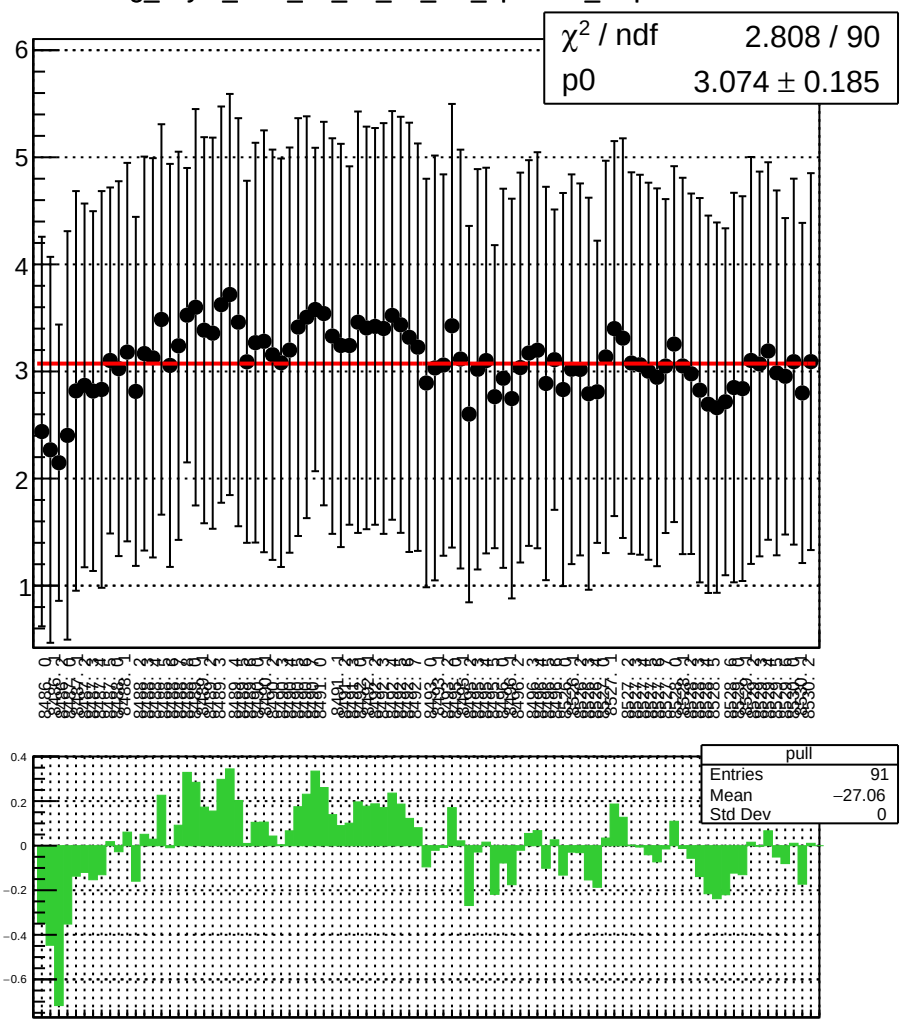

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 2.964 / 90
p0 −20.21 ± 1.816
pull
Entries 91
Mean 287.6
Std Dev 0
pull1D
Entries 91
Mean −0.01463
Std Dev 0.1799

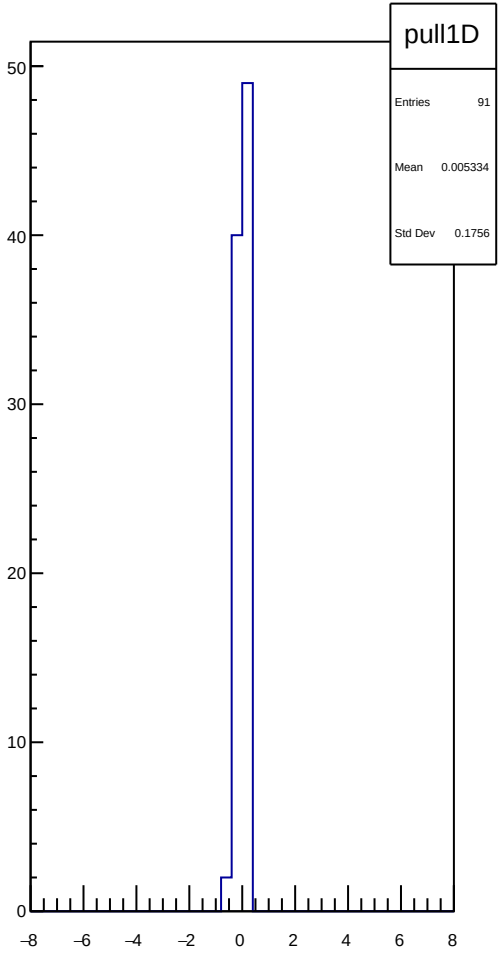

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.515 / 90
p0 −38.23 ± 2.921
20
0
−20
−40
−60
−80
pull
Entries 91
Mean −2809
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 91
Mean 0.001351
Std Dev 0.2676
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

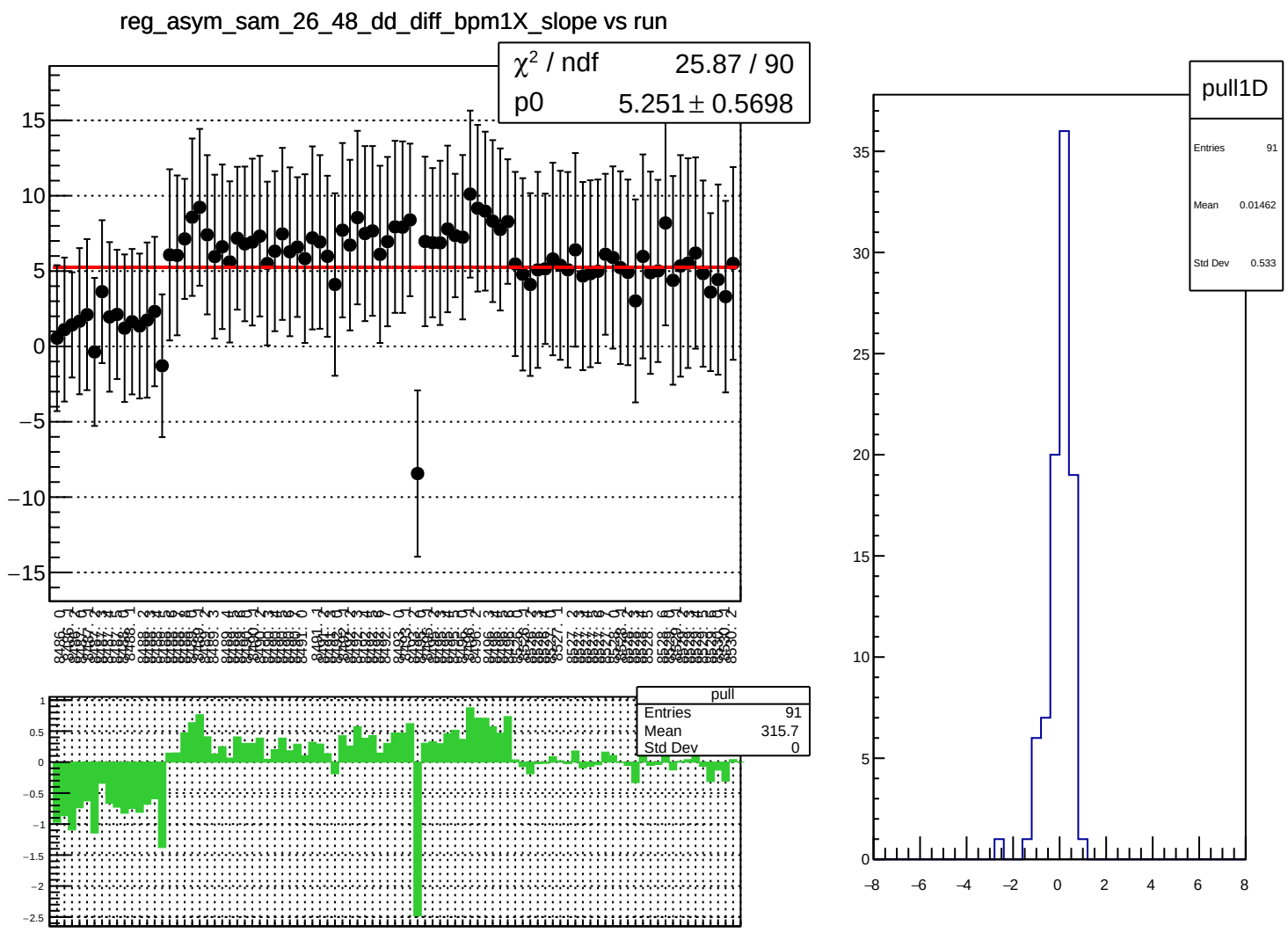

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.853 / 90
p0 −81.5 ± 1.977
pull
Entries 91
Mean 336.6
Std Dev 0
pull1D
Entries 91
Mean 0.007399
Std Dev 0.1425

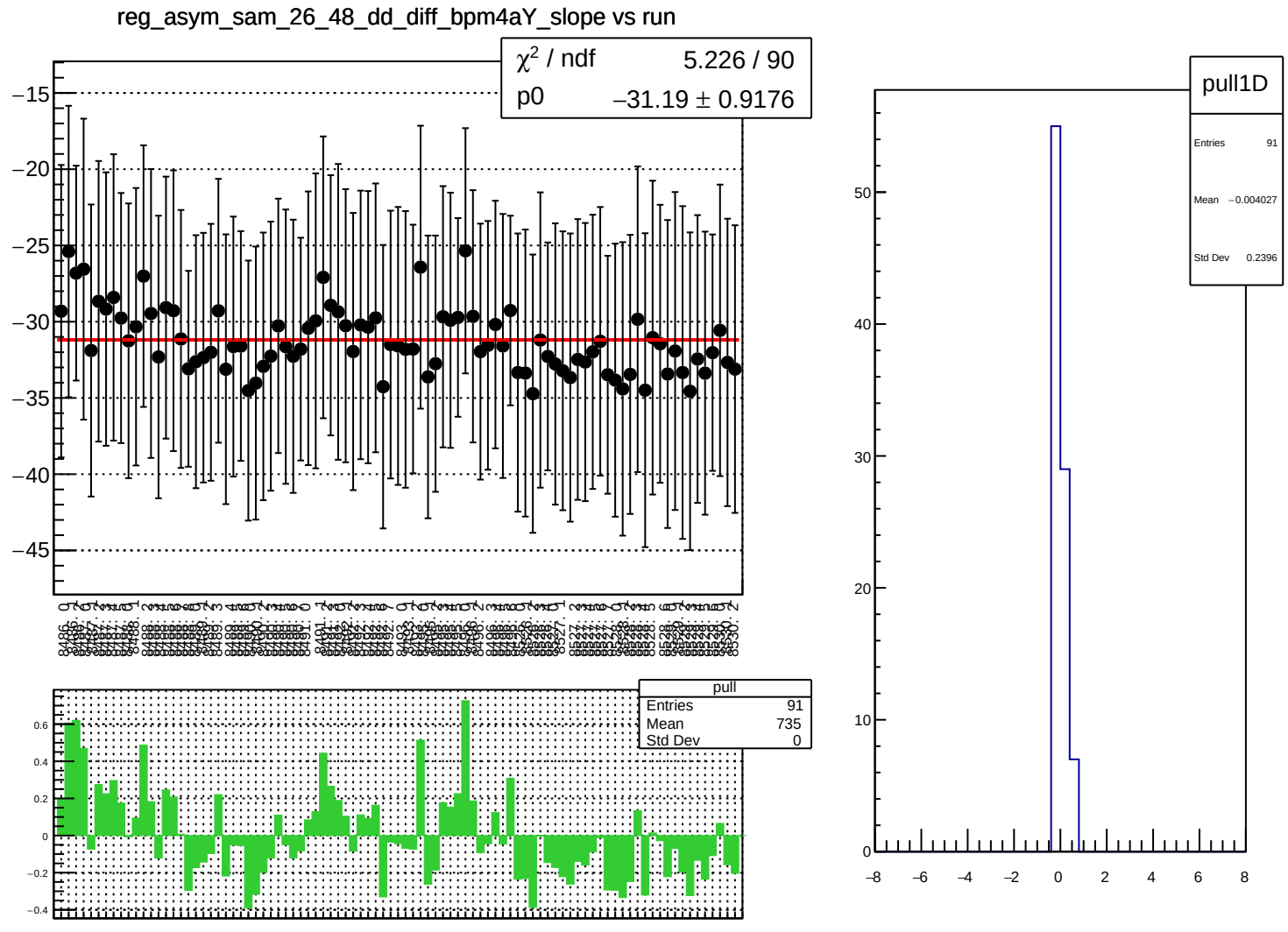

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.472 / 90
p0 21.17 ± 3.094
pull
Entries 91
Mean 2.322e+04
Std Dev 0

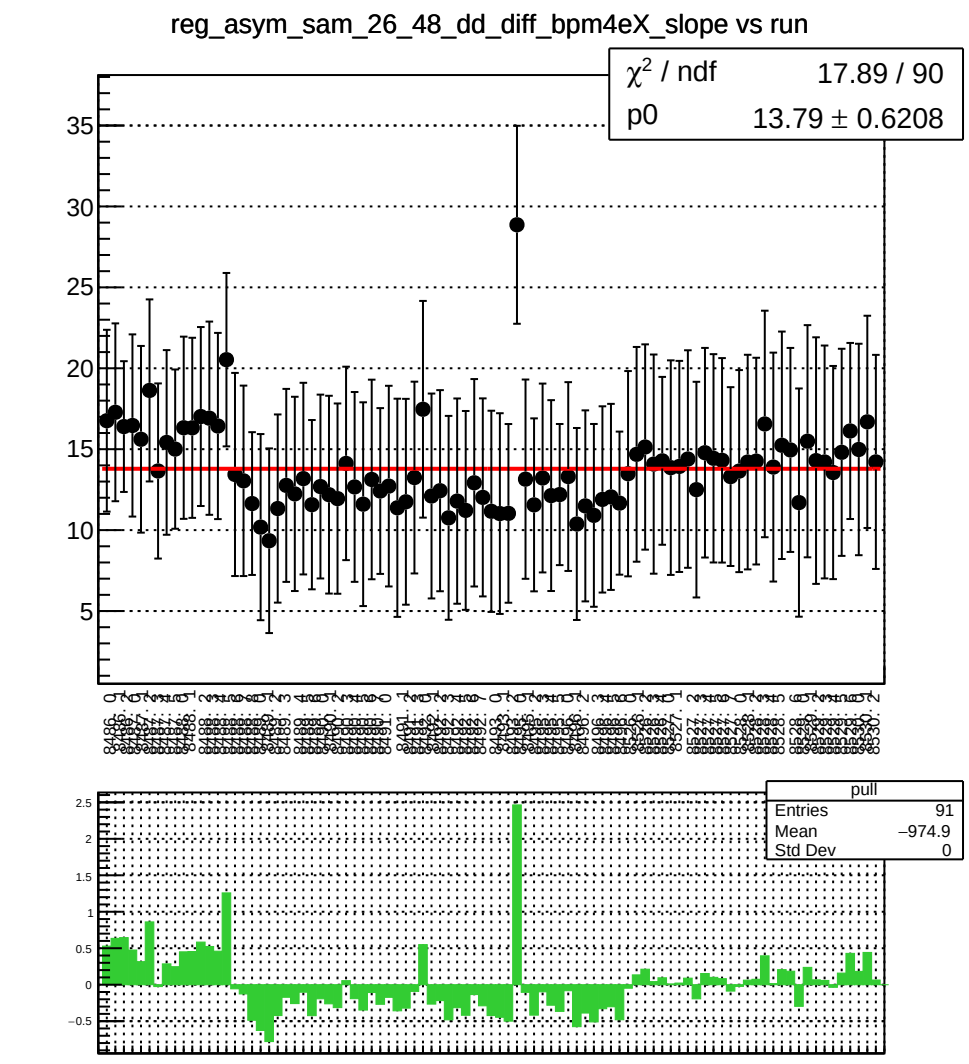

pull1D
Entries 91
Mean 0.0001757
Std Dev 0.2667

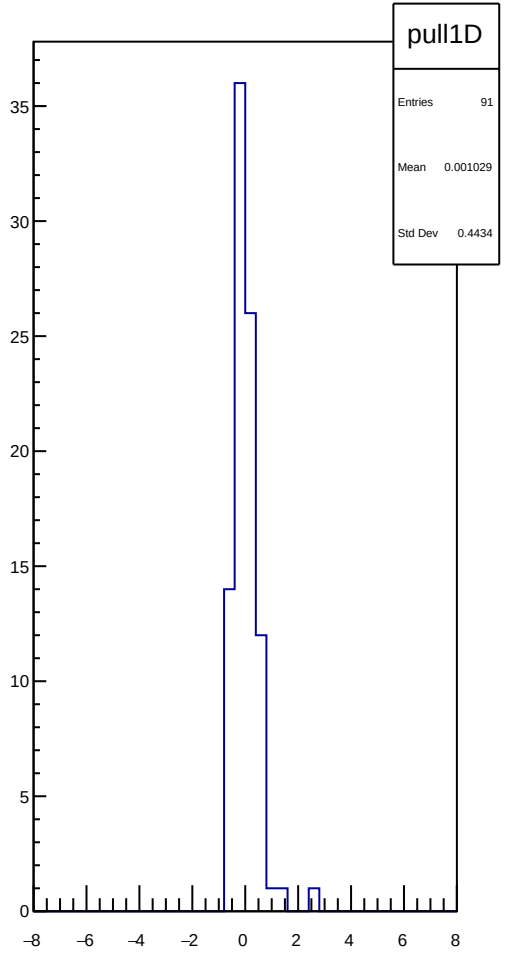

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 2.808 / 90
p0 3.074 ± 0.185
pull
Entries 91
Mean −27.06
Std Dev 0

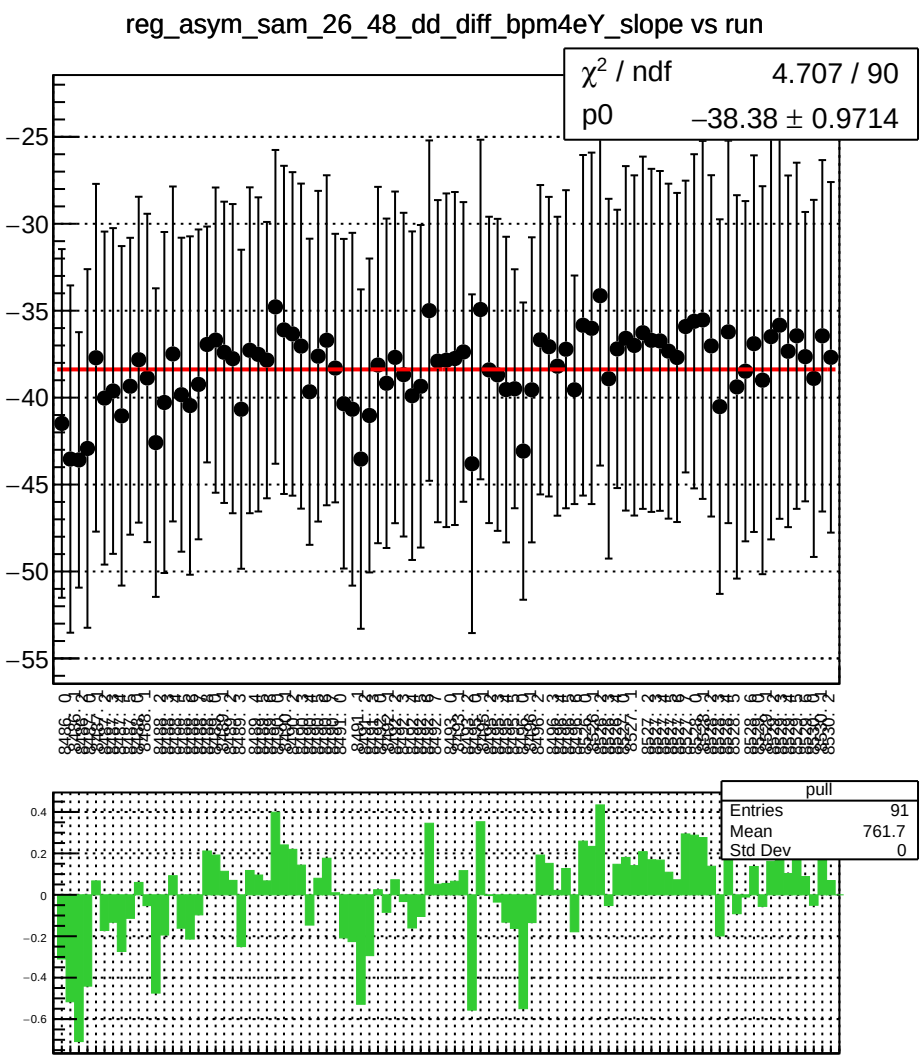

pull1D
Entries 91
Mean 0.005334
Std Dev 0.1756

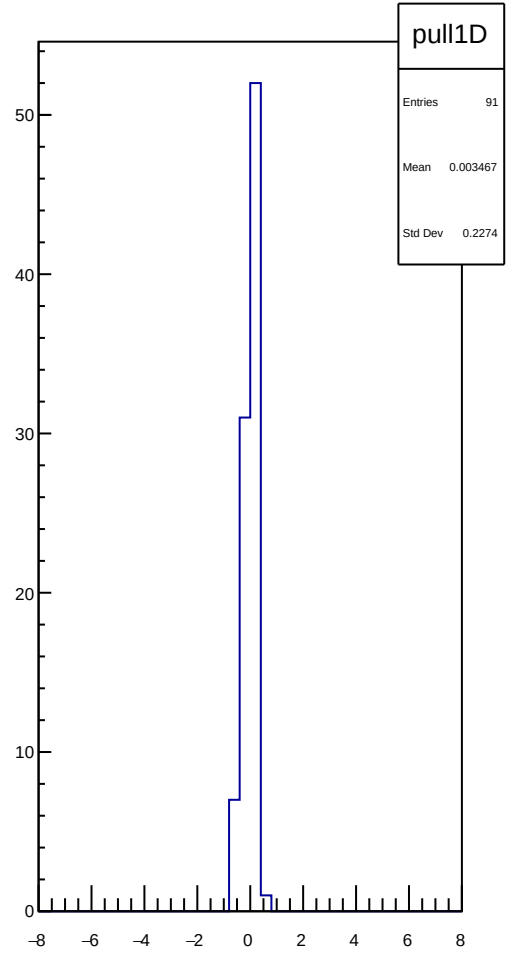

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 25.87 / 90
p0 5.251 ± 0.5698
pull
Entries 91
Mean 315.7
Std Dev 0
pull1D
Entries 91
Mean 0.01462
Std Dev 0.533

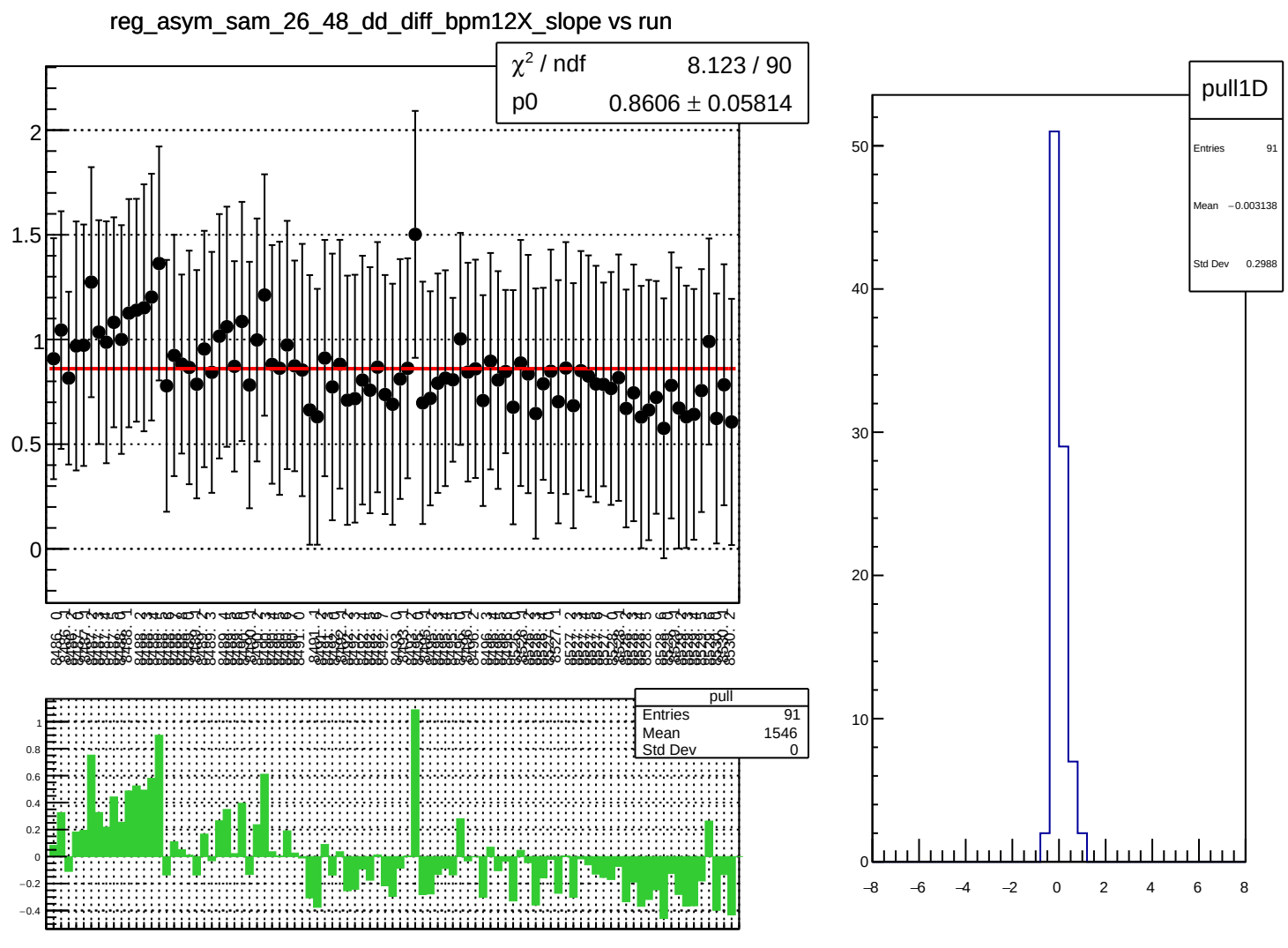

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.226 / 90
p0 −31.19 ± 0.9176
−15
−20
−25
−30
−35
−40
−45
pull
Entries 91
Mean 735
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 91
Mean −0.004027
Std Dev 0.2396
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

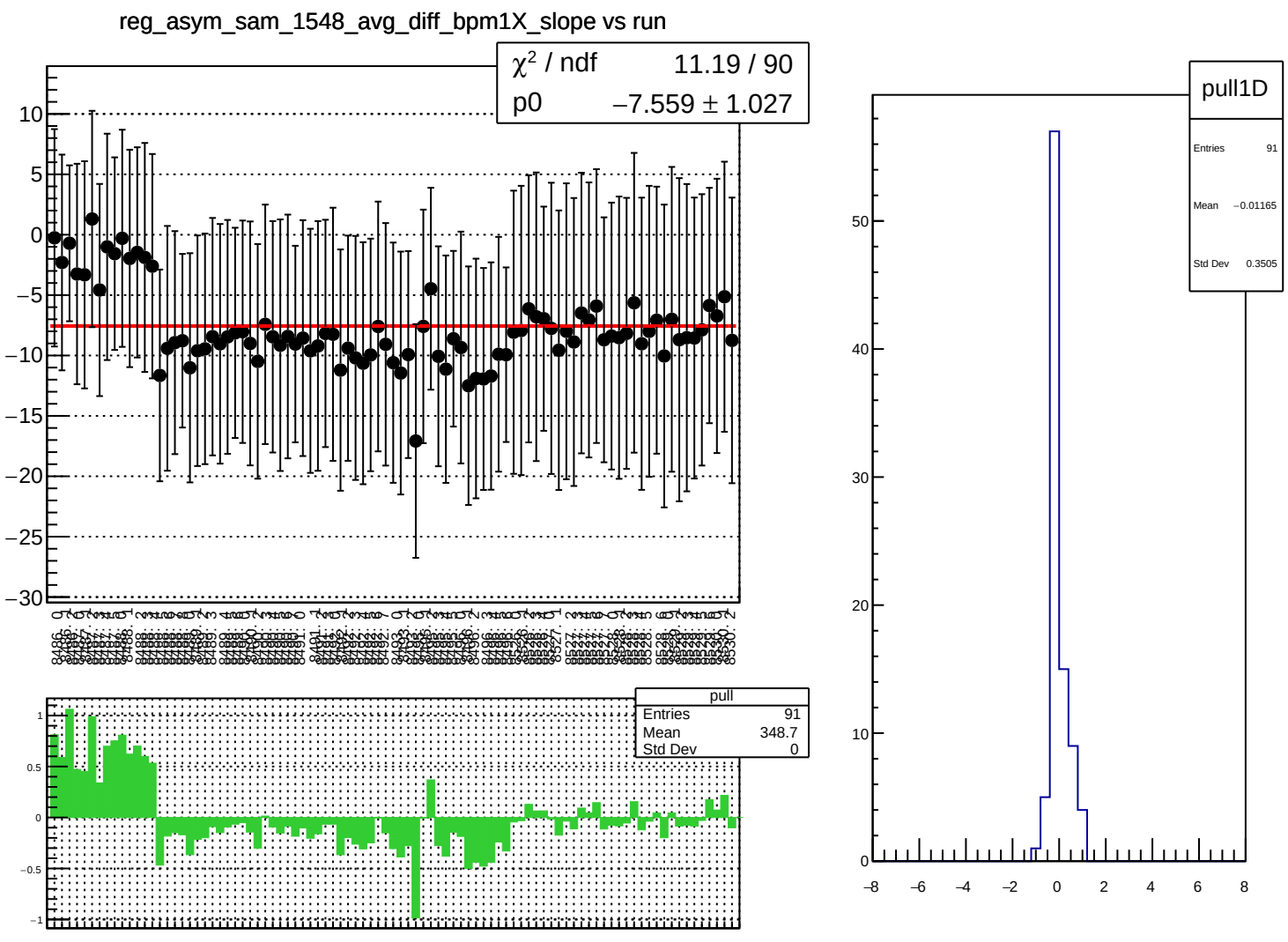

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 17.89 / 90
p0 13.79 ± 0.6208
pull
Entries 91
Mean −974.9
Std Dev 0

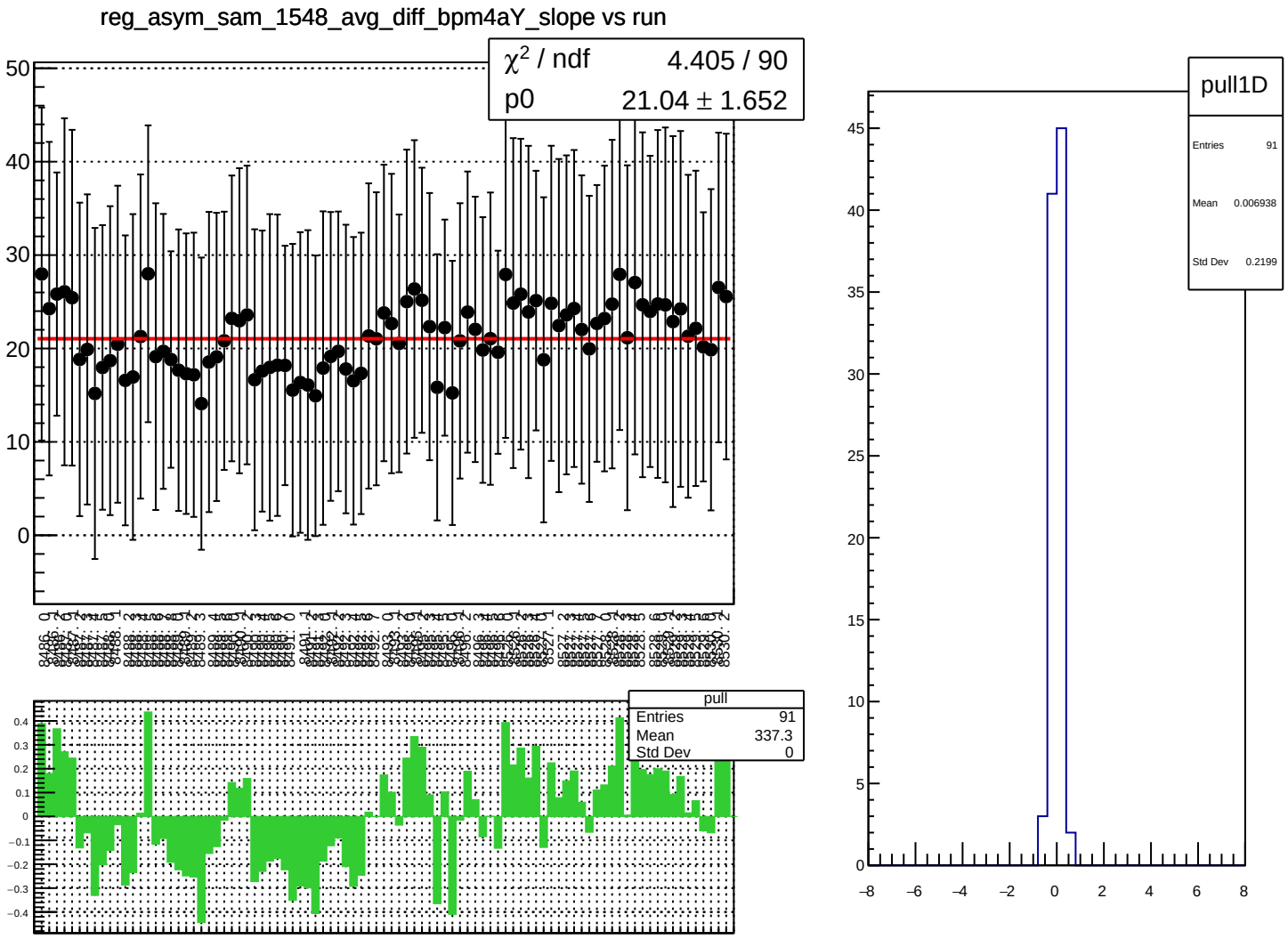

pull1D
Entries 91
Mean 0.001029
Std Dev 0.4434

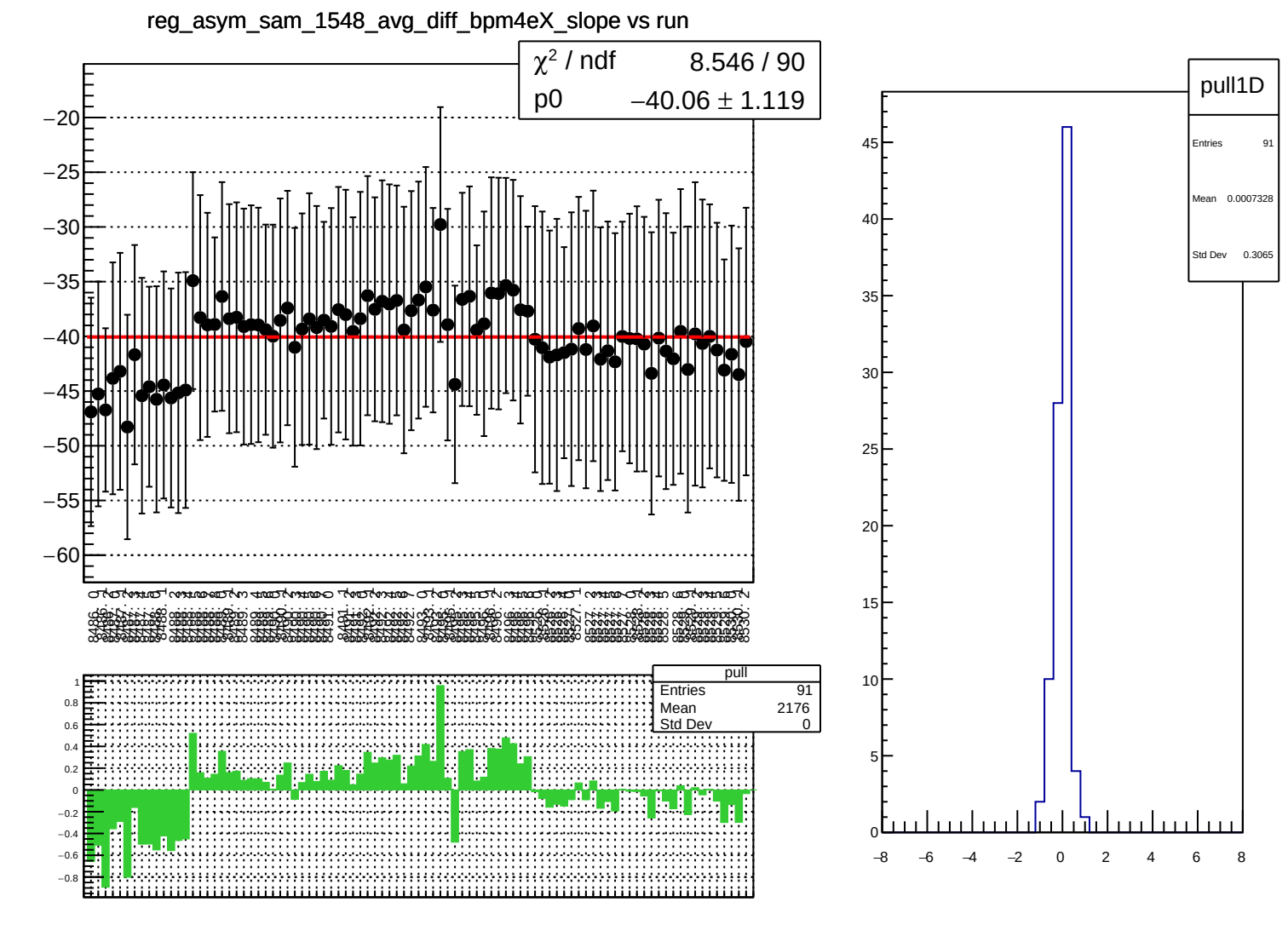

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.707 / 90
p0 −38.38 ± 0.9714
pull
Entries 91
Mean 761.7
Std Dev 0

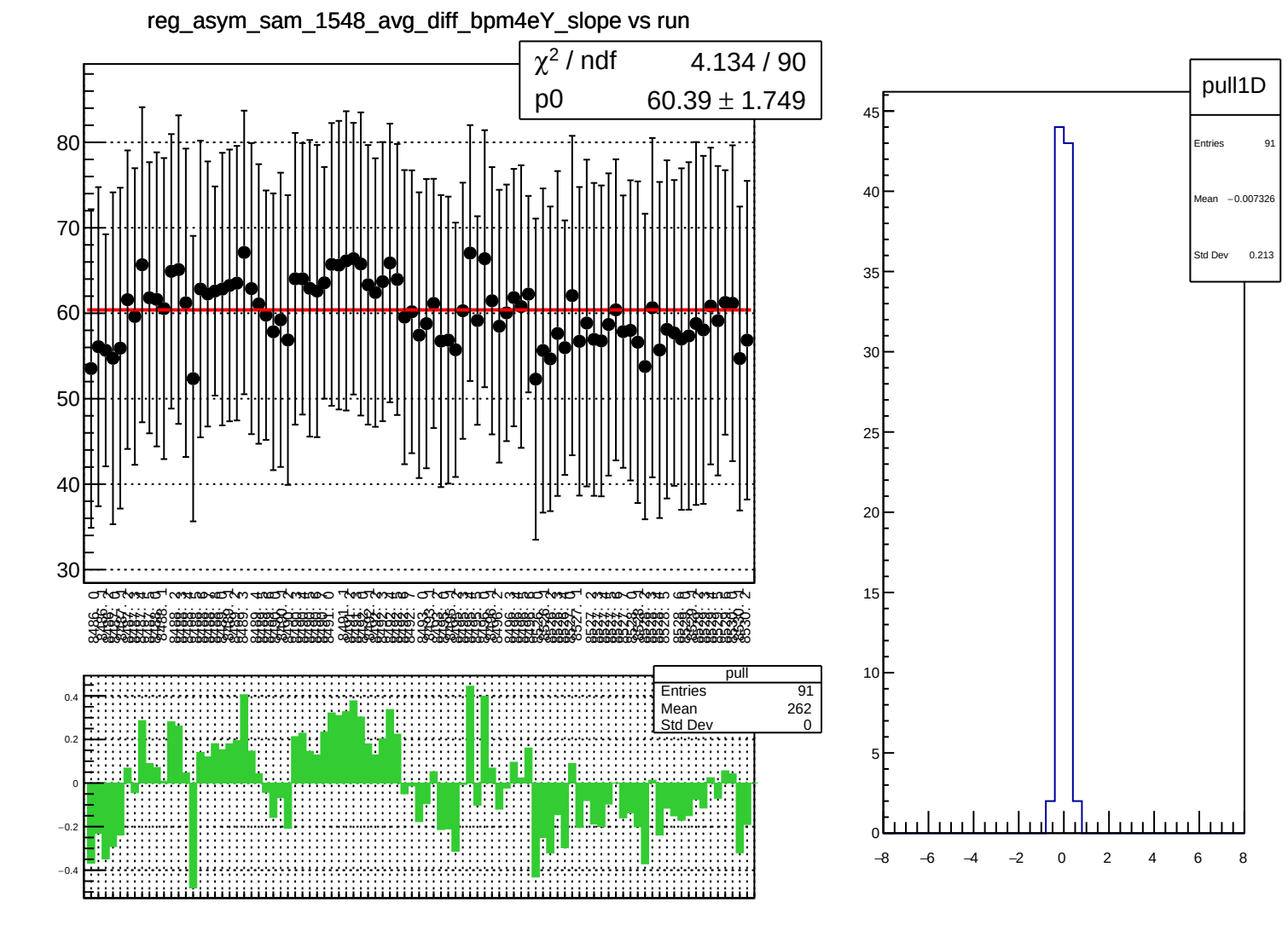

pull1D
Entries 91
Mean 0.003467
Std Dev 0.2274

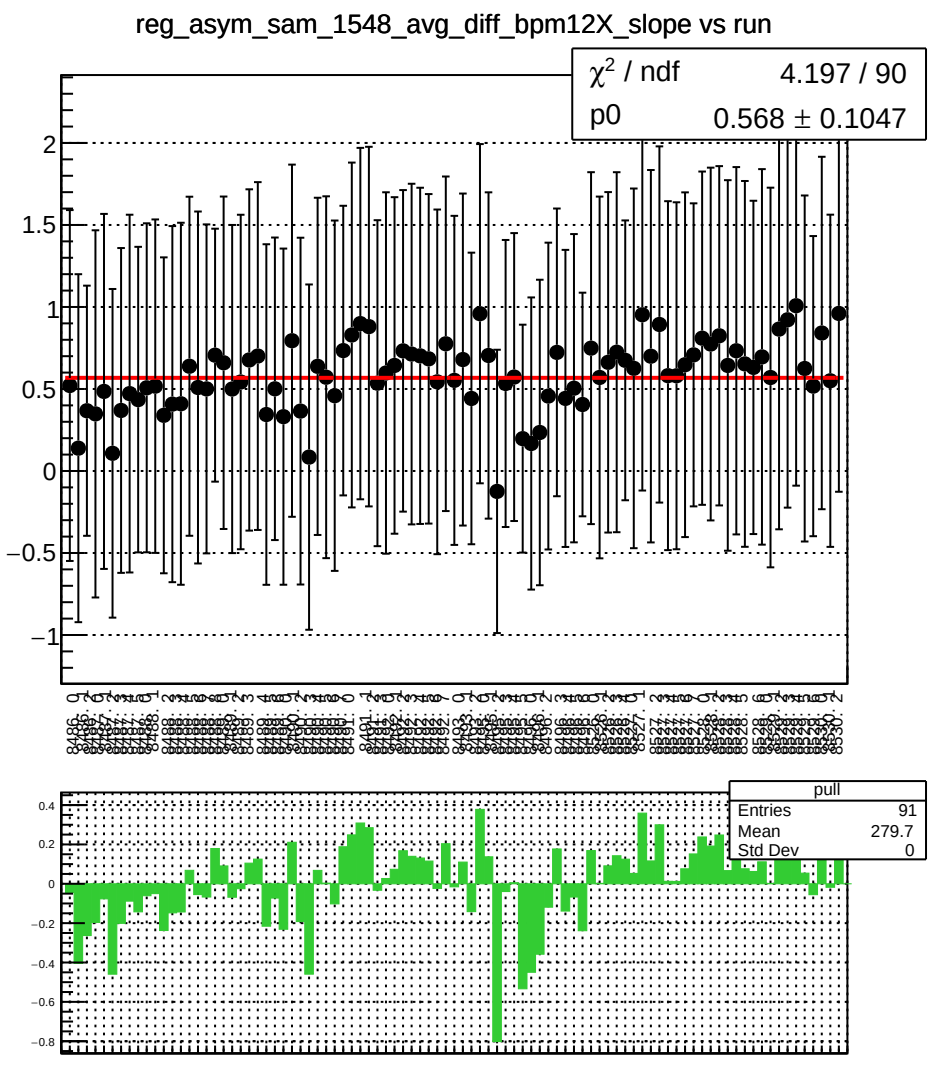

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 8.123 / 90
p0 0.8606 ± 0.05814
pull
Entries 91
Mean 1546
Std Dev 0
pull1D
Entries 91
Mean −0.003138
Std Dev 0.2988

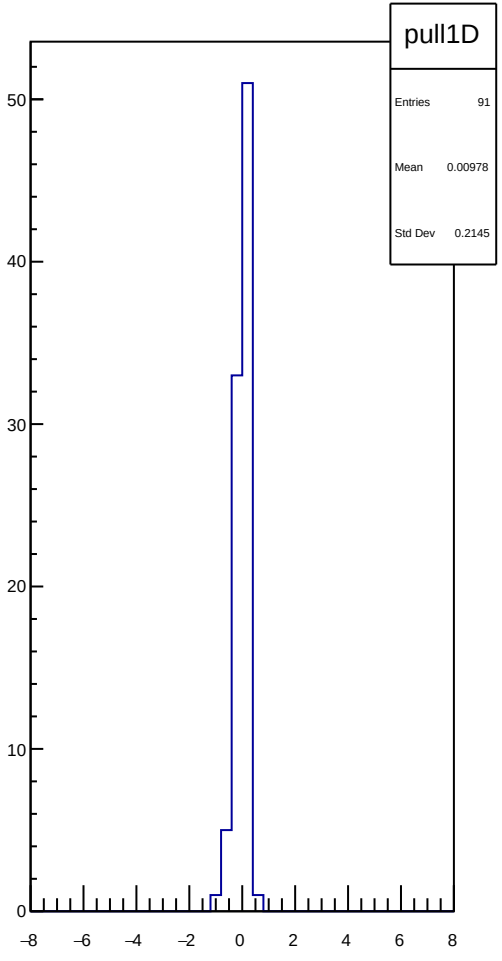

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 11.19 / 90
p0 −7.559 ± 1.027
pull
Entries 91
Mean 348.7
Std Dev 0
pull1D
Entries 91
Mean −0.01165
Std Dev 0.3505

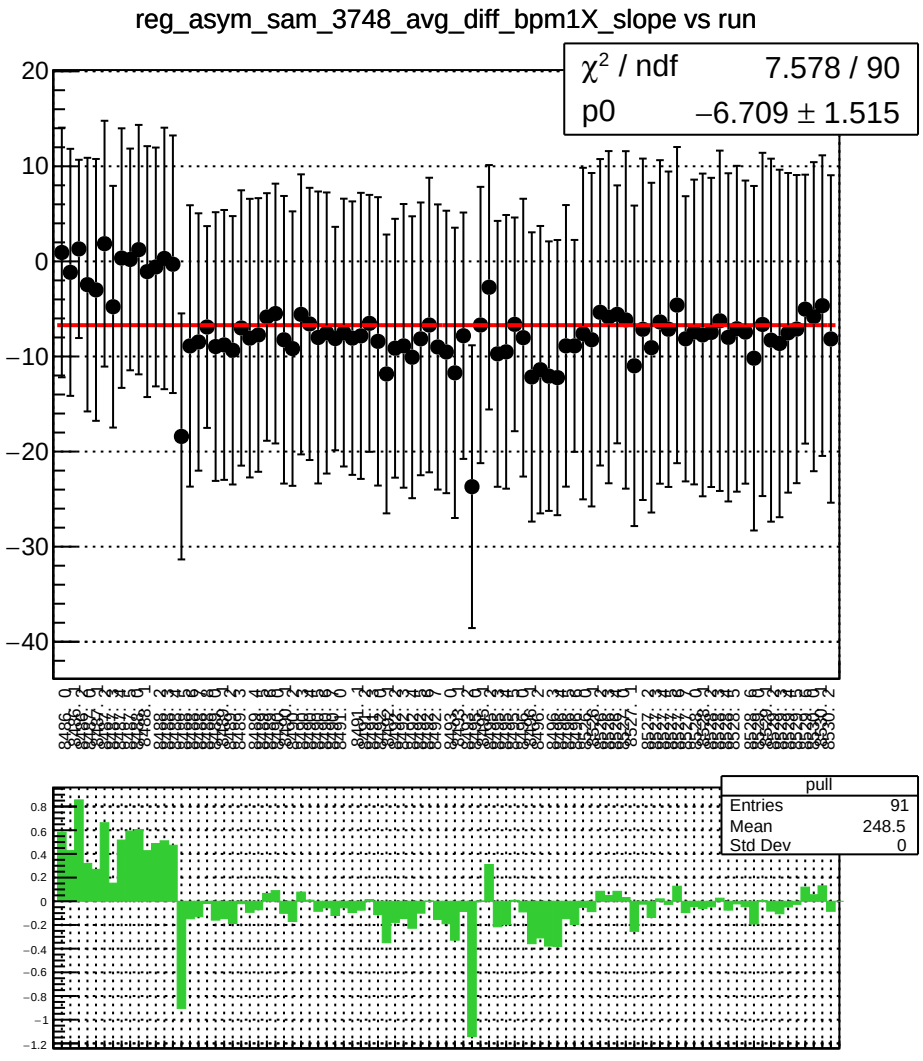

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.405 / 90
p0 21.04 ± 1.652
pull
Entries 91
Mean 337.3
Std Dev 0
pull1D
Entries 91
Mean 0.006938
Std Dev 0.2199

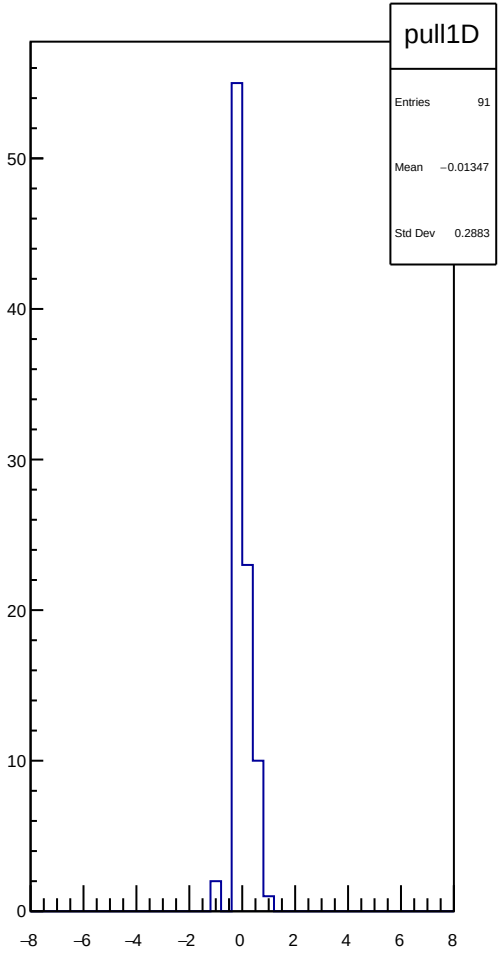

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.546 / 90
p0 −40.06 ± 1.119
pull
Entries 91
Mean 2176
Std Dev 0
pull1D
Entries 91
Mean 0.0007328
Std Dev 0.3065

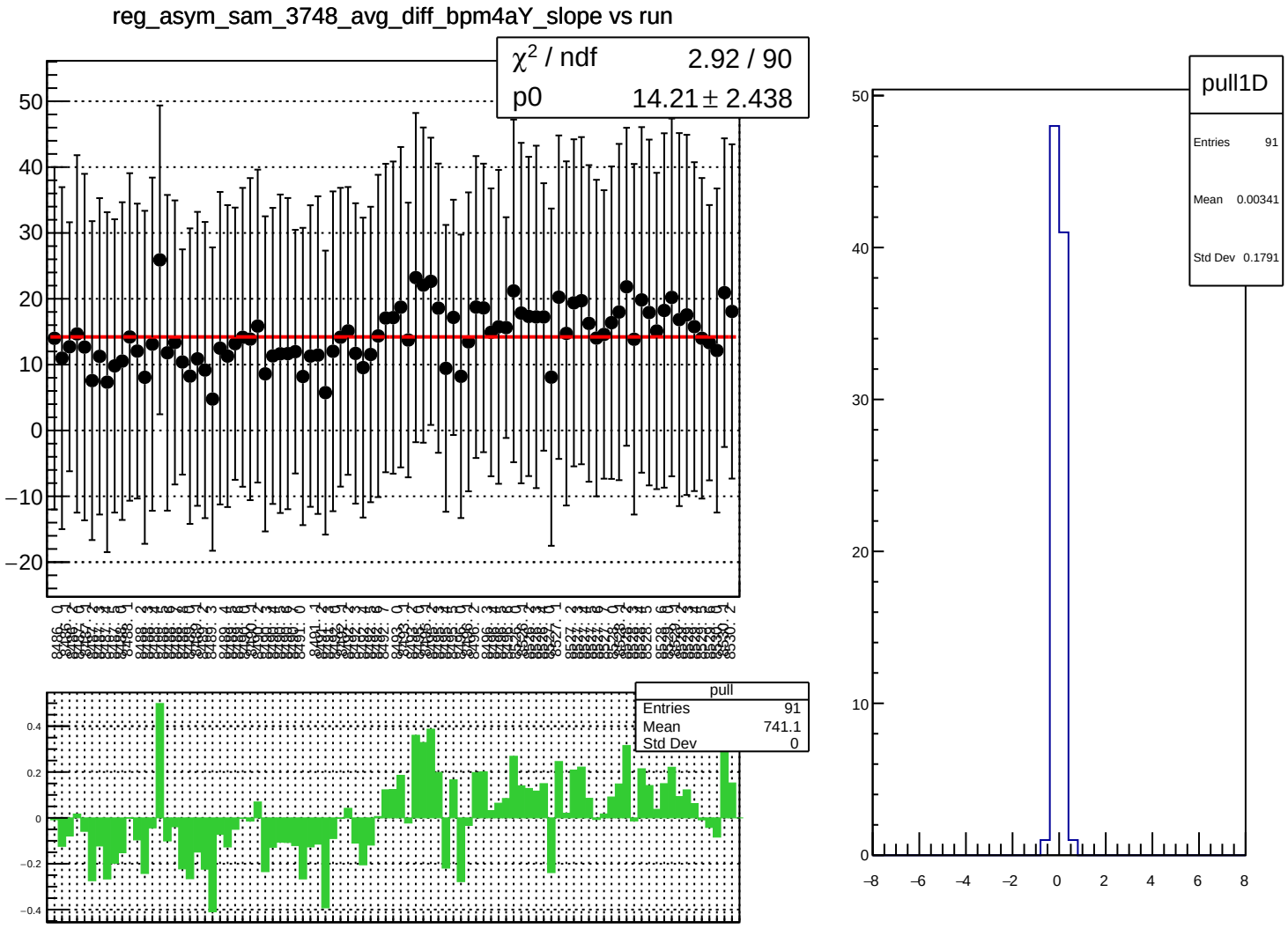

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.134 / 90
p0 60.39 ± 1.749
pull
Entries 91
Mean 262
Std Dev 0
pull1D
Entries 91
Mean −0.007326
Std Dev 0.213

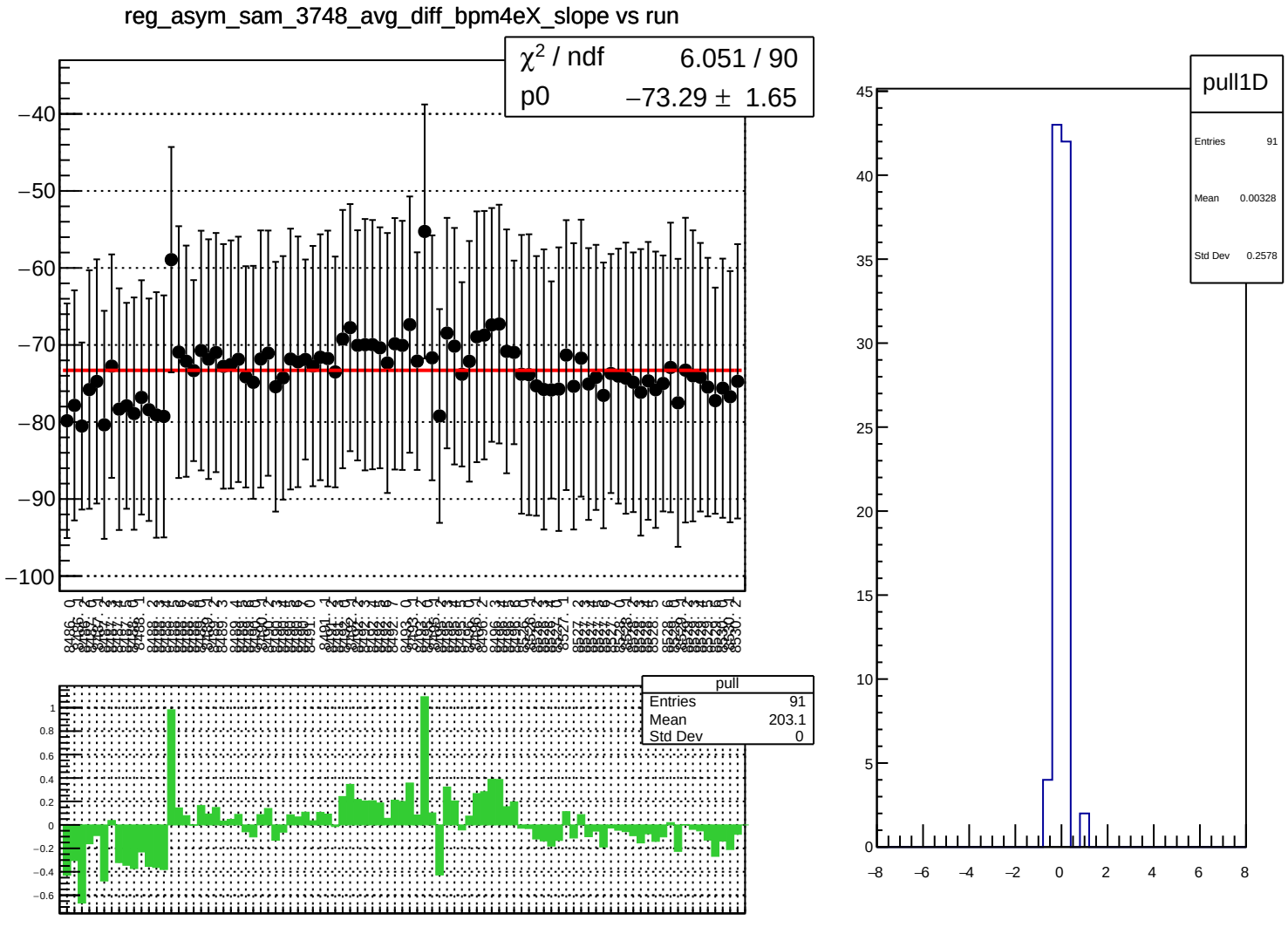

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 4.197 / 90
p0 0.568 ± 0.1047
pull
Entries 91
Mean 279.7
Std Dev 0

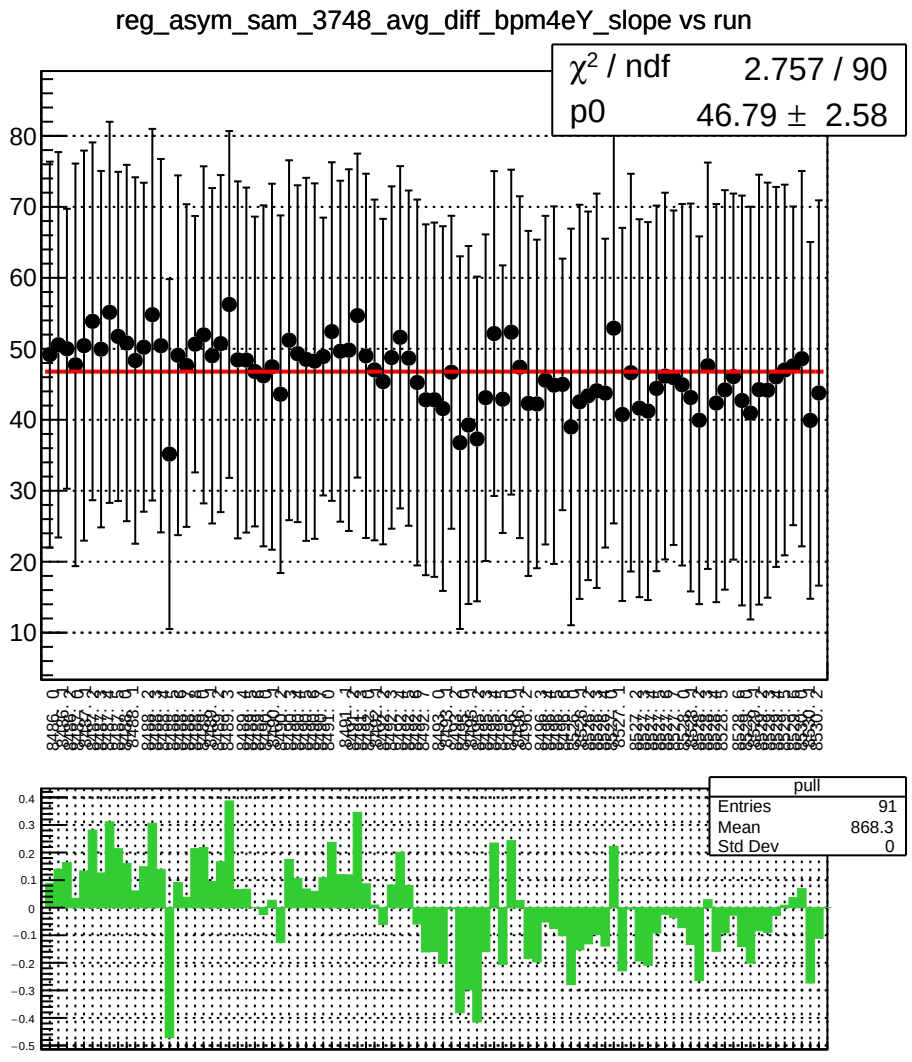

pull1D
Entries 91
Mean 0.00978
Std Dev 0.2145

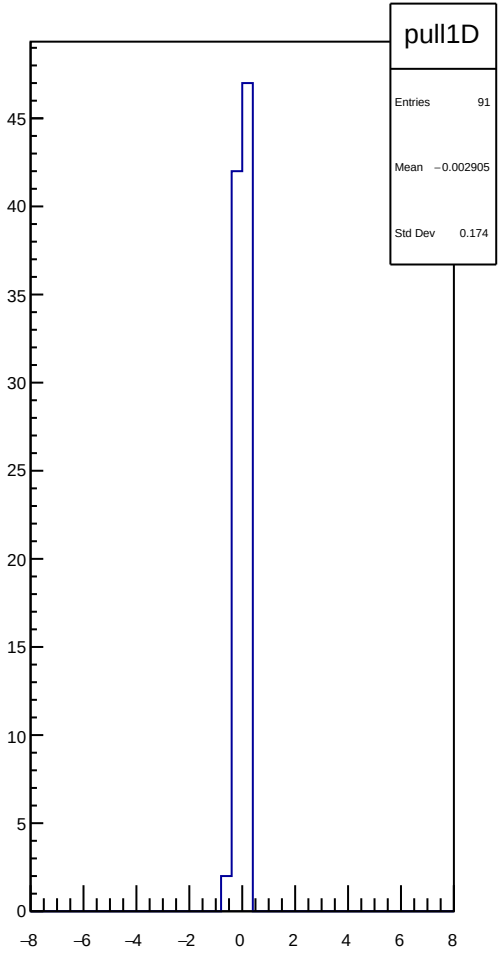

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 7.578 / 90
p0 −6.709 ± 1.515
pull
Entries 91
Mean 248.5
Std Dev 0

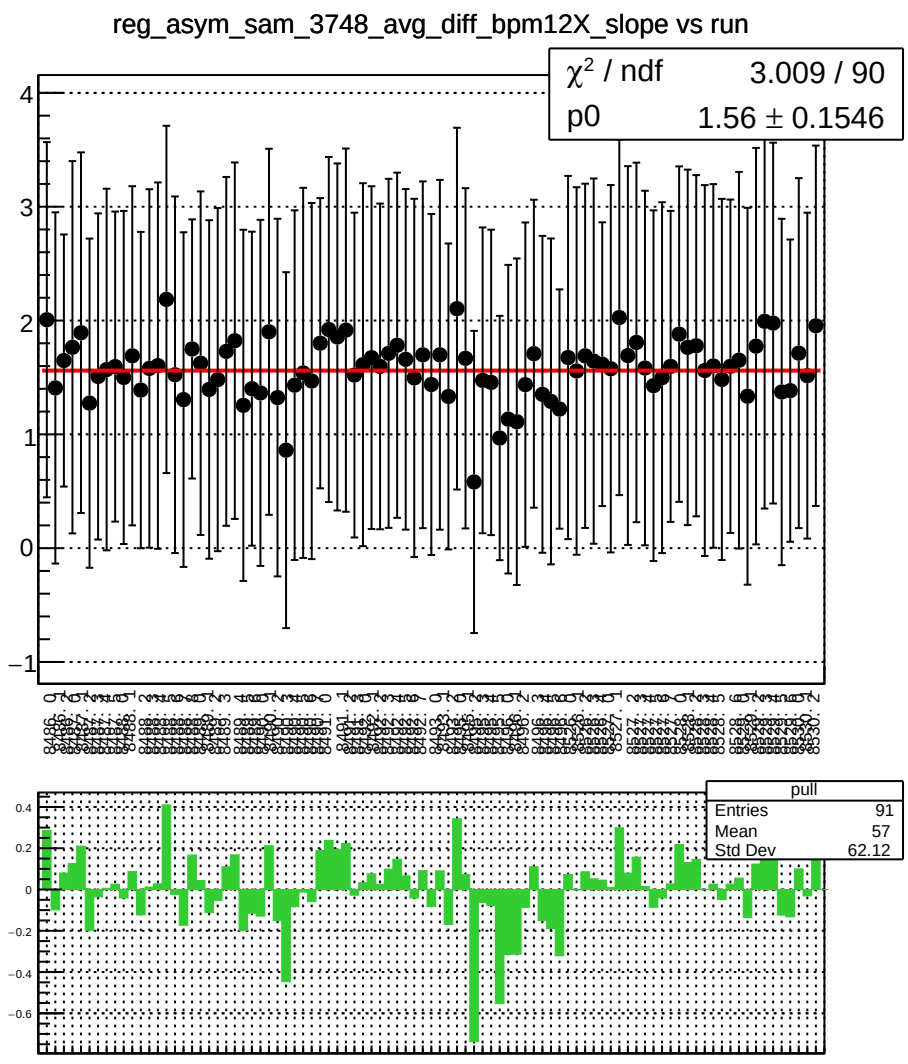

pull1D
Entries 91
Mean −0.01347
Std Dev 0.2883

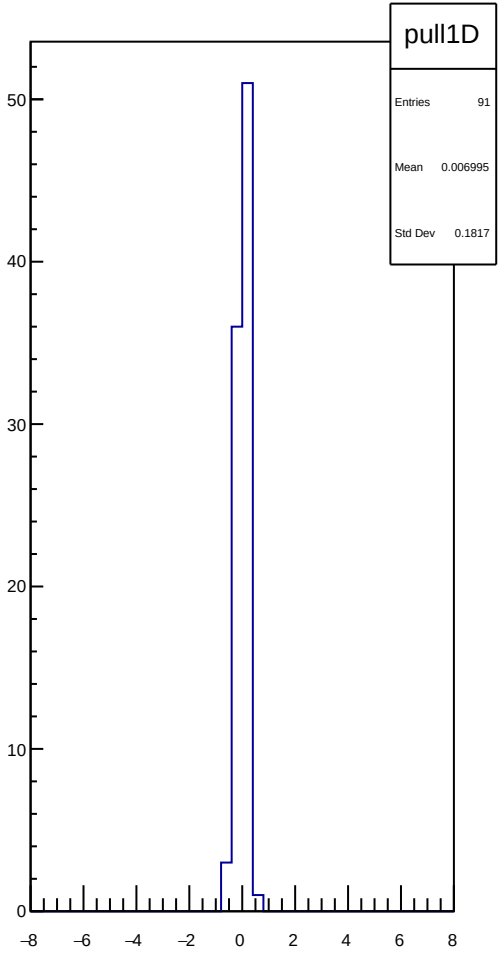

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.92 / 90
p0 14.21 ± 2.438
pull
Entries 91
Mean 741.1
Std Dev 0
pull1D
Entries 91
Mean 0.00341
Std Dev 0.1791

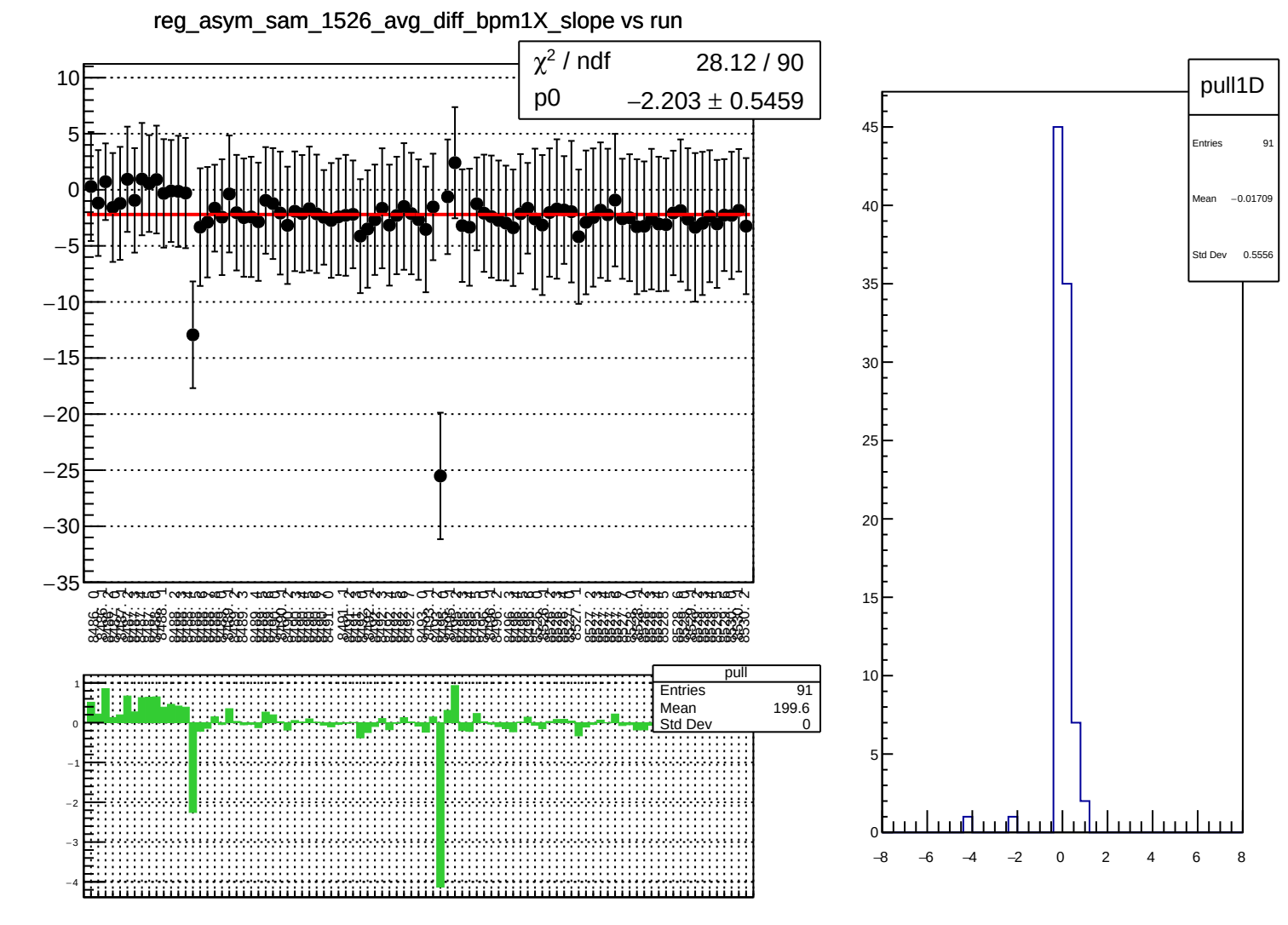

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.051 / 90
p0 −73.29 ± 1.65
−40
−50
−60
−70
−80
−90
−100
pull
Entries 91
Mean 203.1
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 91
Mean 0.00328
Std Dev 0.2578
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

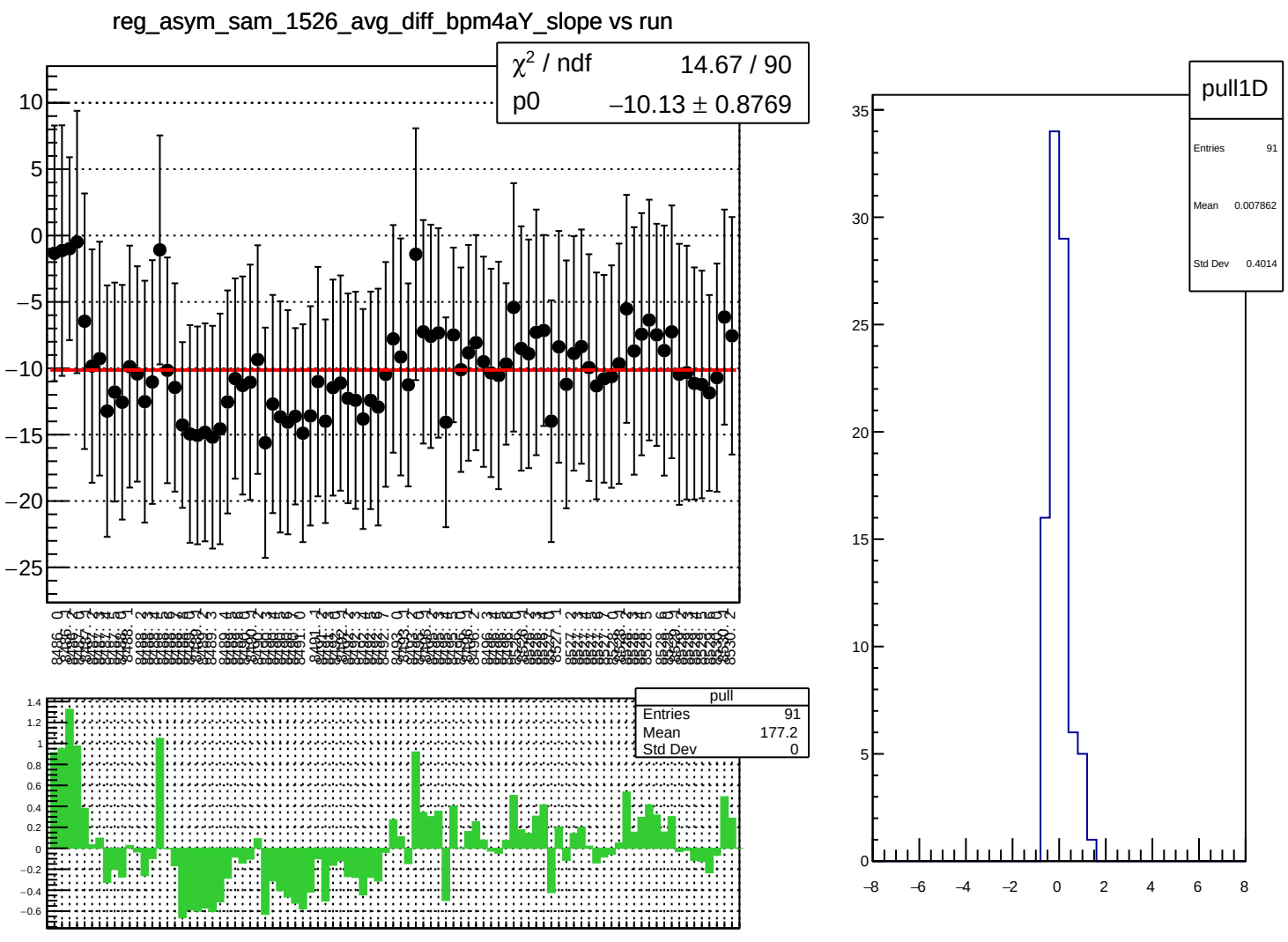

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.757 / 90
p0 46.79 ± 2.58
pull
Entries 91
Mean 868.3
Std Dev 0

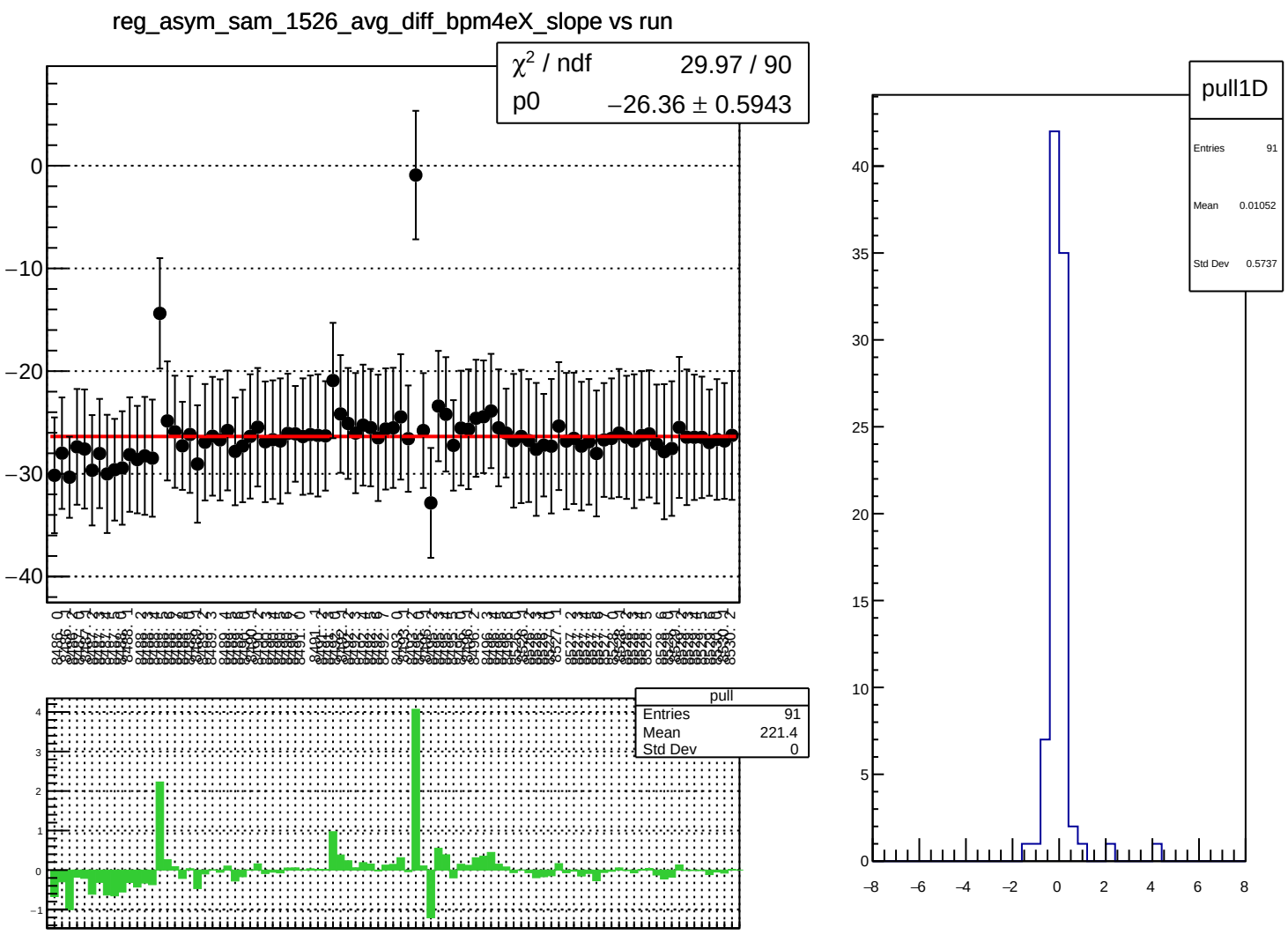

pull1D
Entries 91
Mean −0.002905
Std Dev 0.174

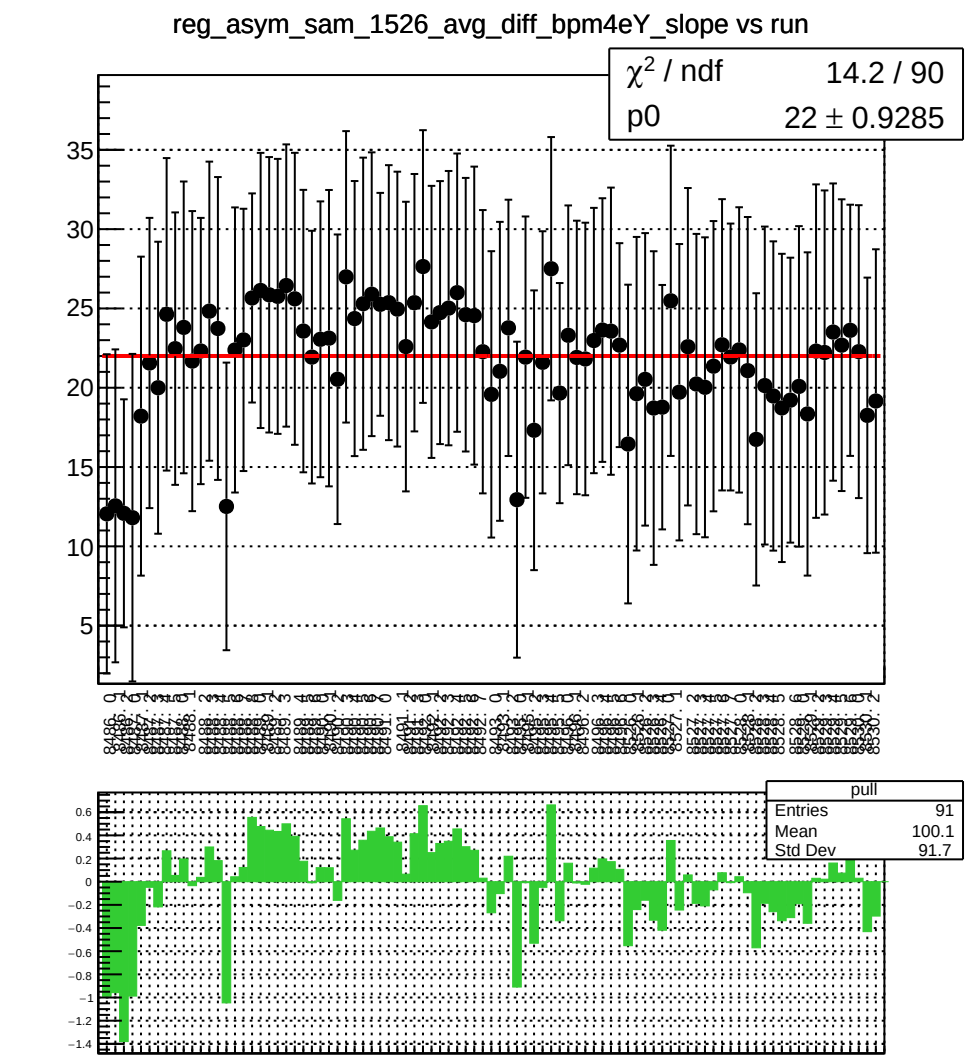

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 3.009 / 90
p0 1.56 ± 0.1546
pull
Entries 91
Mean 57
Std Dev 62.12

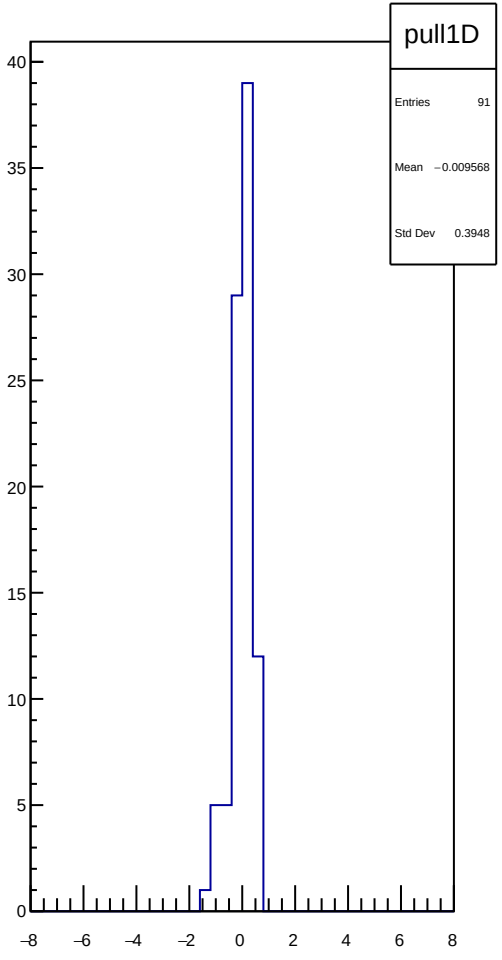

pull1D
Entries 91
Mean 0.006995
Std Dev 0.1817

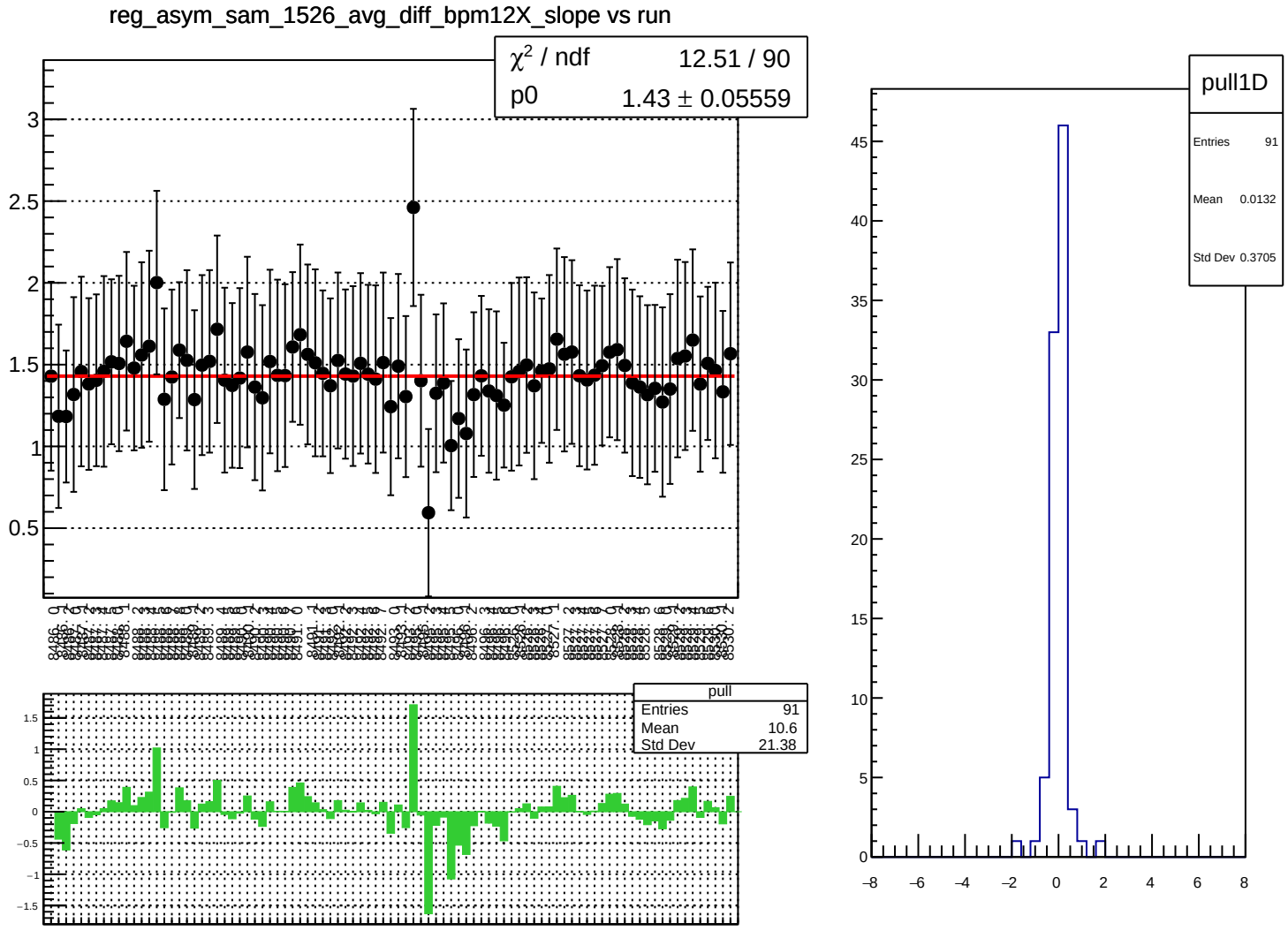

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 28.12 / 90
p0 −2.203 ± 0.5459
pull
Entries 91
Mean 199.6
Std Dev 0
pull1D
Entries 91
Mean −0.01709
Std Dev 0.5556

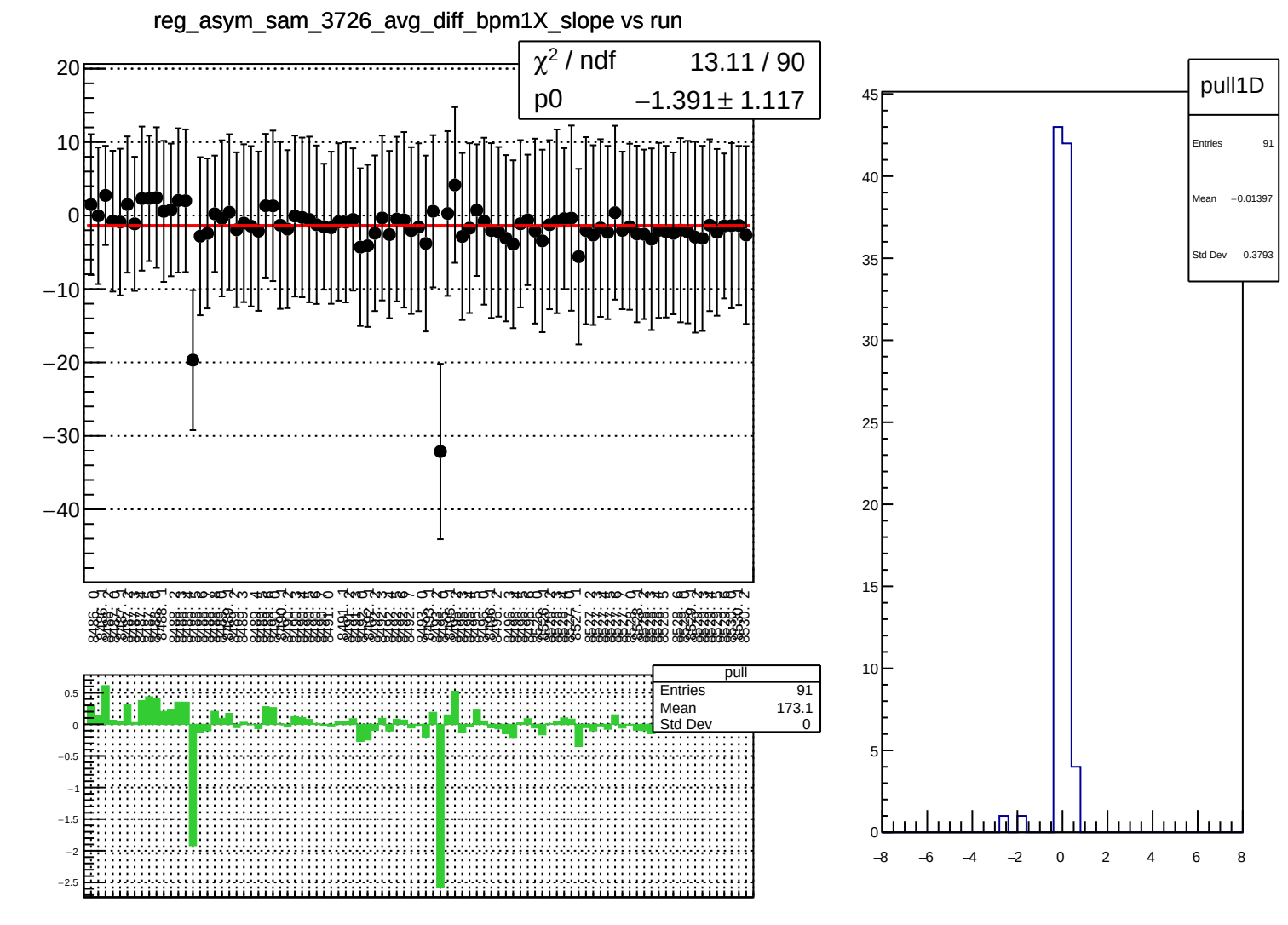

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.67 / 90
p0 −10.13 ± 0.8769
pull
Entries 91
Mean 177.2
Std Dev 0
pull1D
Entries 91
Mean 0.007862
Std Dev 0.4014

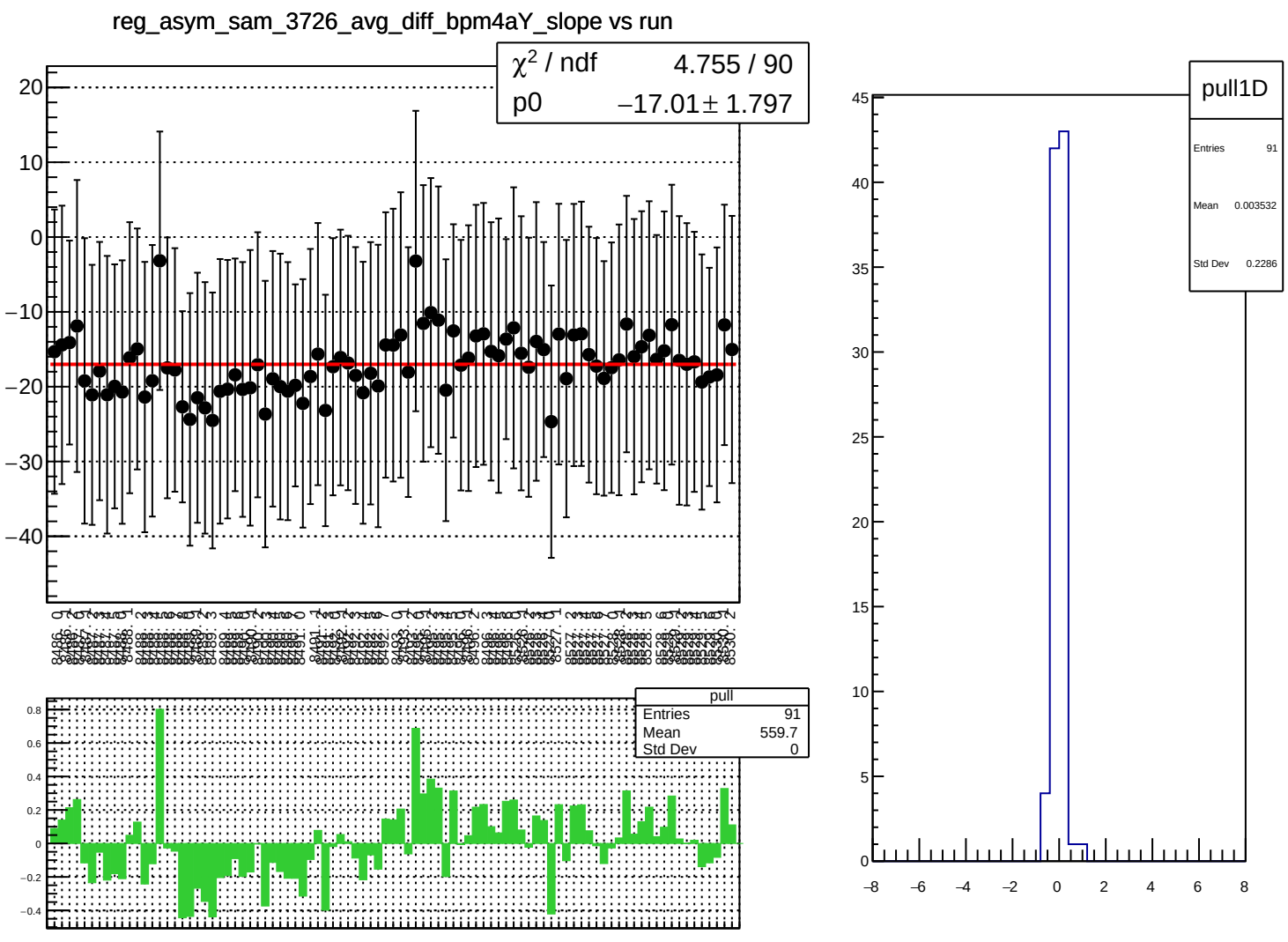

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 29.97 / 90
p0 −26.36 ± 0.5943
0
−10
−20
−30
−40
pull
Entries 91
Mean 221.4
Std Dev 0
4
3
2
1
0
−1
pull1D
Entries 91
Mean 0.01052
Std Dev 0.5737
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

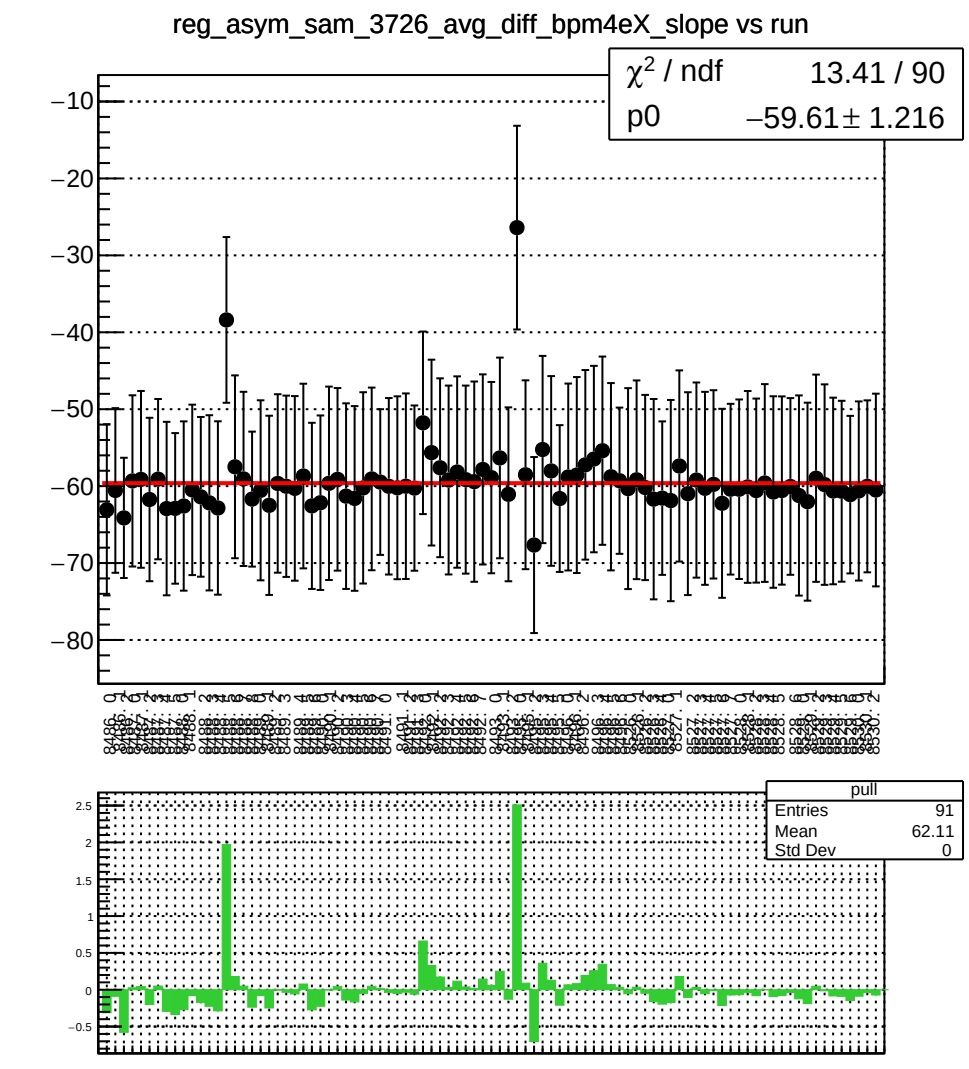

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.2 / 90
p0 22 ± 0.9285
pull
Entries 91
Mean 100.1
Std Dev 91.7

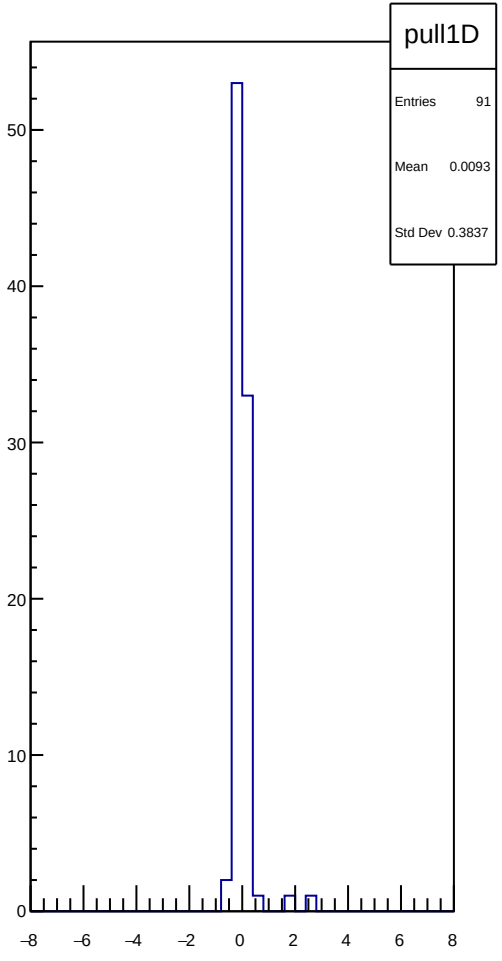

pull1D
Entries 91
Mean −0.009568
Std Dev 0.3948

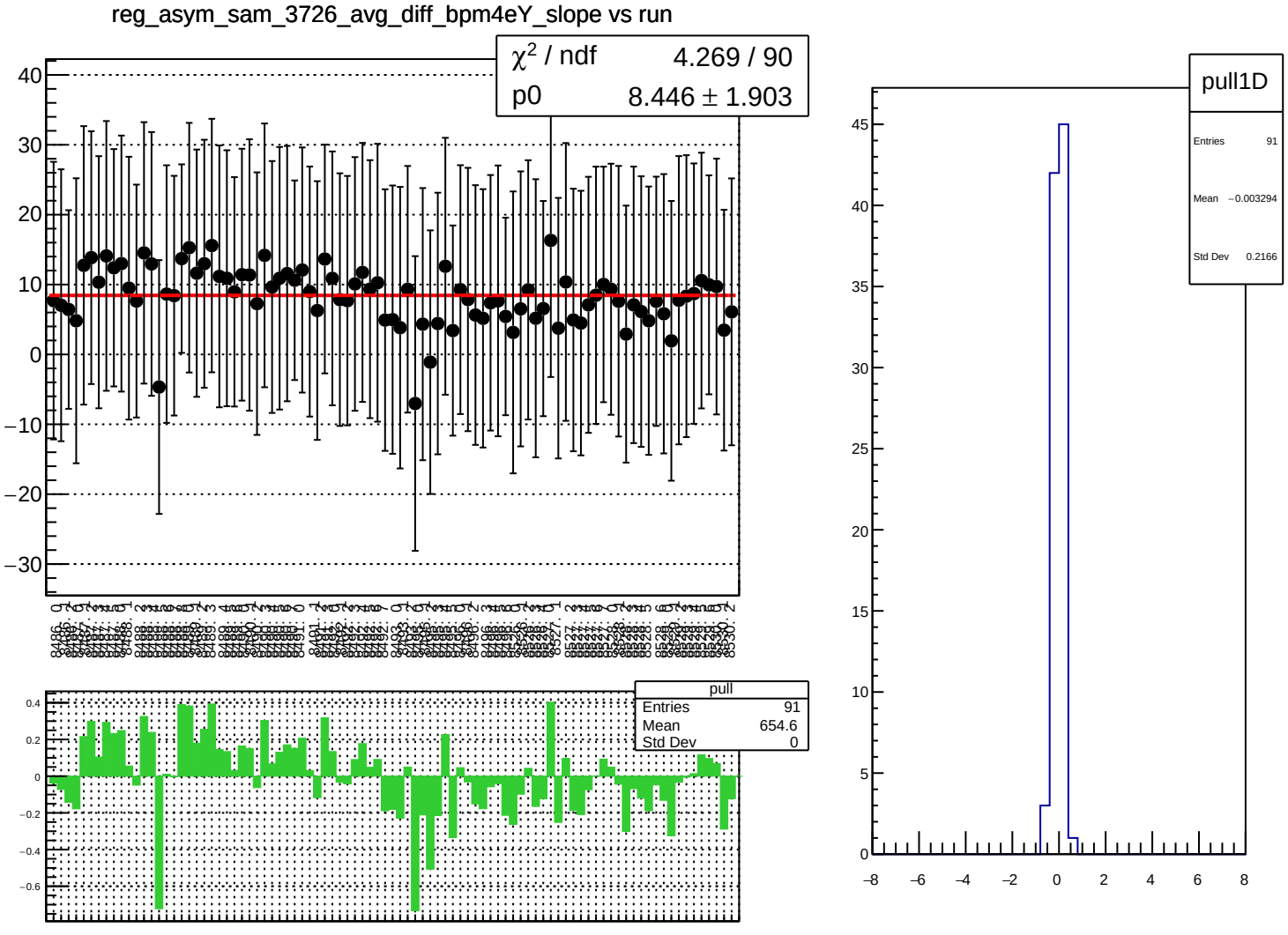

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 12.51 / 90
p0 1.43 ± 0.05559
pull
Entries 91
Mean 10.6
Std Dev 21.38
pull1D
Entries 91
Mean 0.0132
Std Dev 0.3705

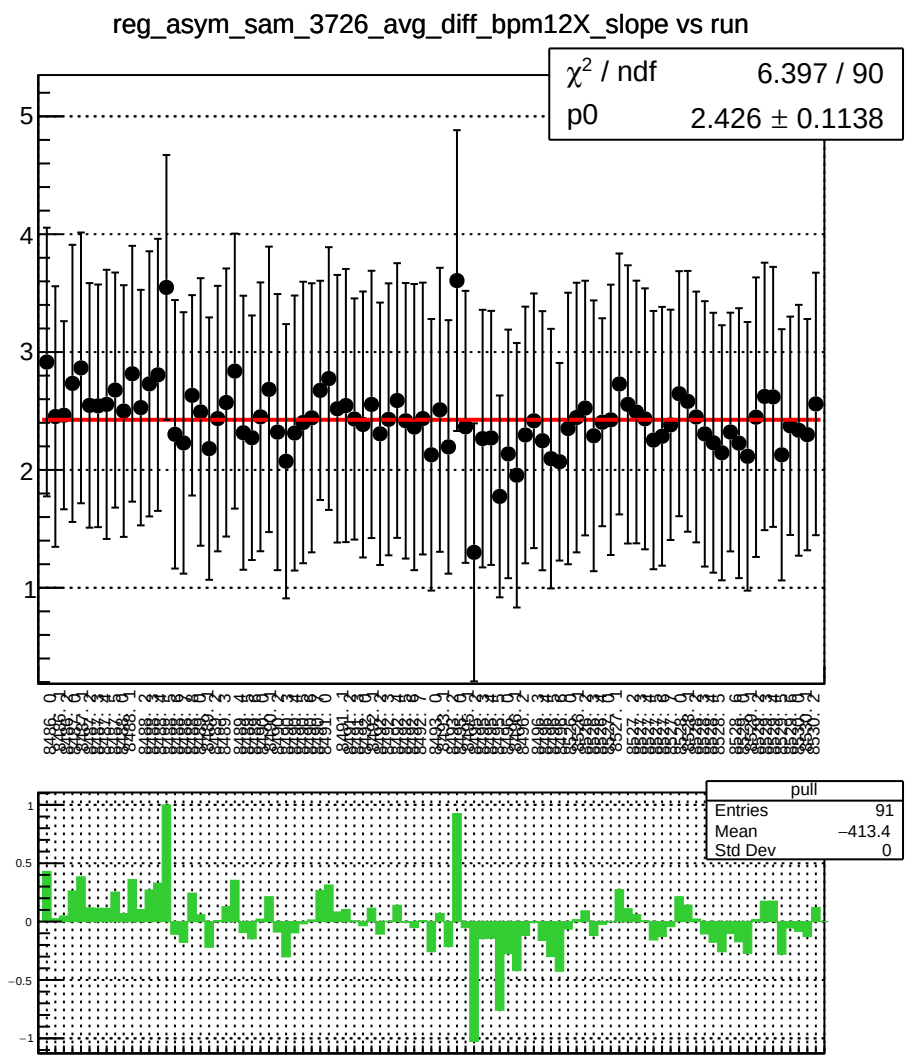

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 13.11 / 90
p0 −1.391 ± 1.117
pull
Entries 91
Mean 173.1
Std Dev 0
pull1D
Entries 91
Mean −0.01397
Std Dev 0.3793

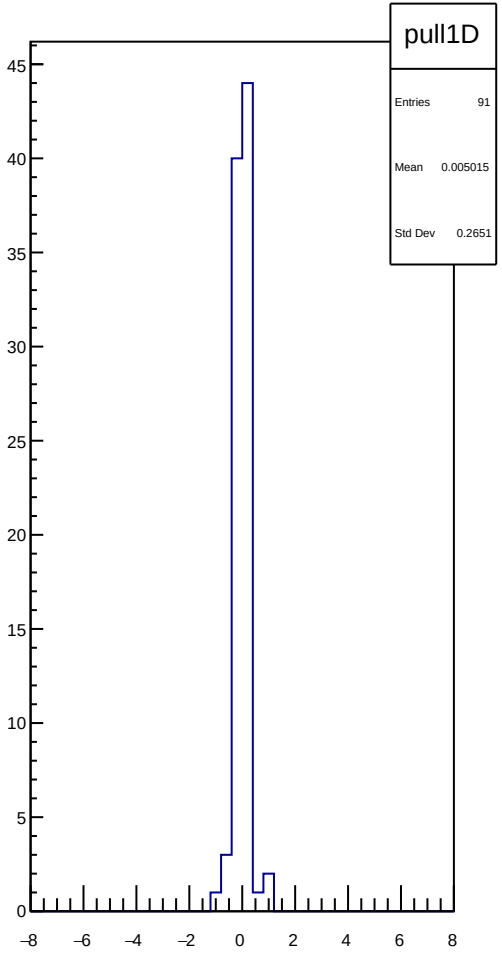

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.755 / 90
p0 −17.01± 1.797
pull
Entries 91
Mean 559.7
Std Dev 0
pull1D
Entries 91
Mean 0.003532
Std Dev 0.2286

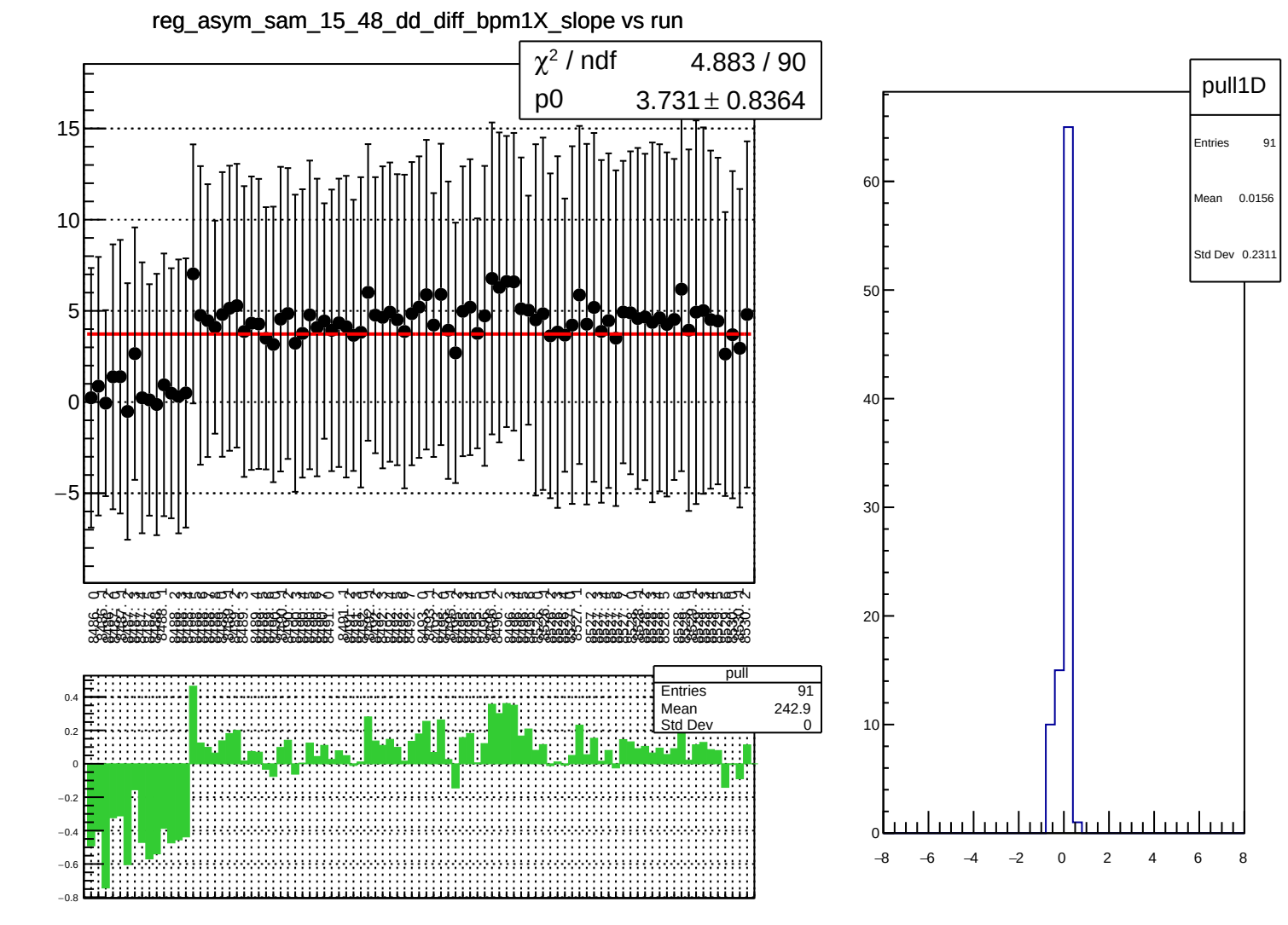

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 13.41 / 90
p0 −59.61 ± 1.216
pull
Entries 91
Mean 62.11
Std Dev 0

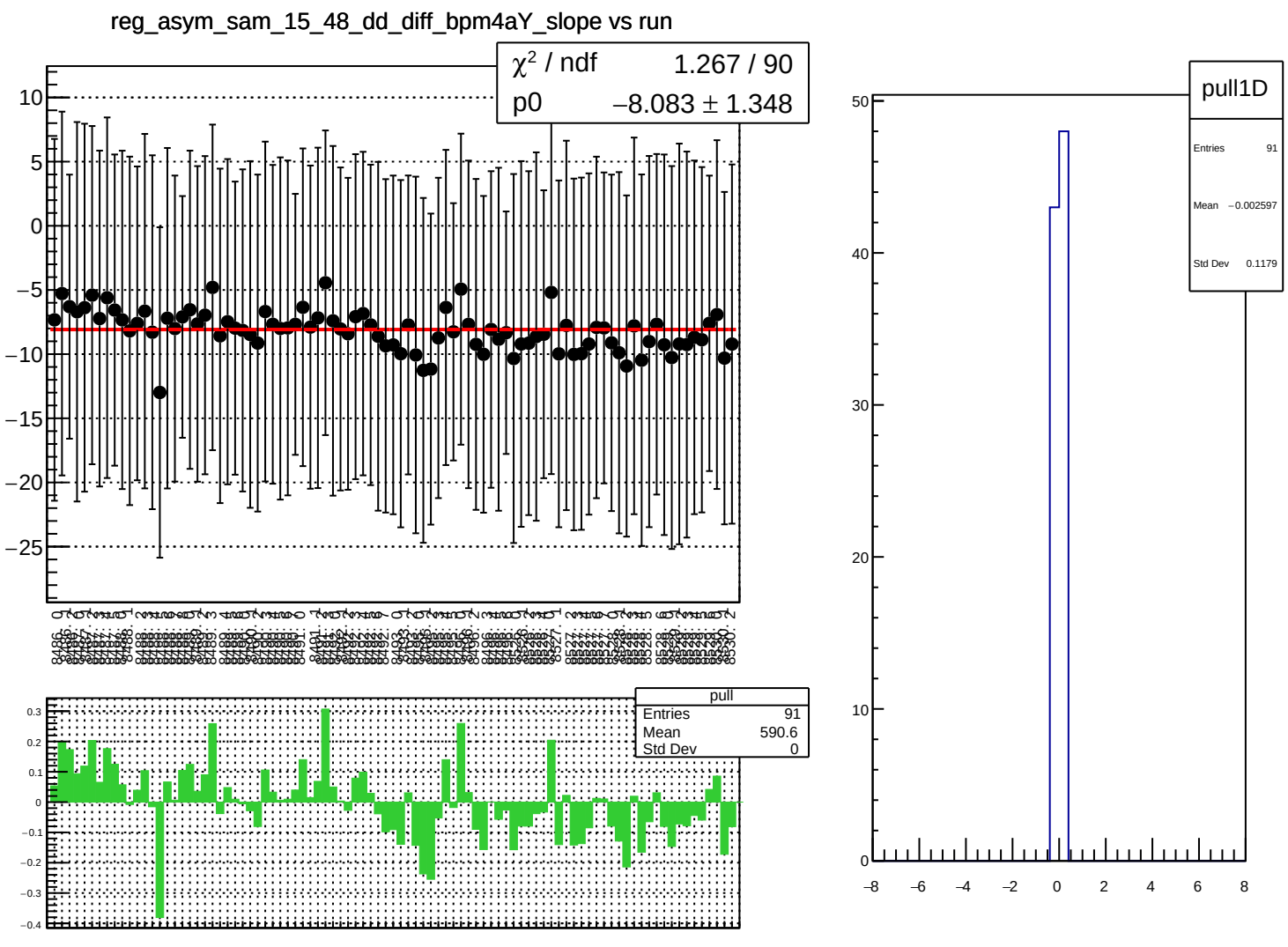

pull1D
Entries 91
Mean 0.0093
Std Dev 0.3837

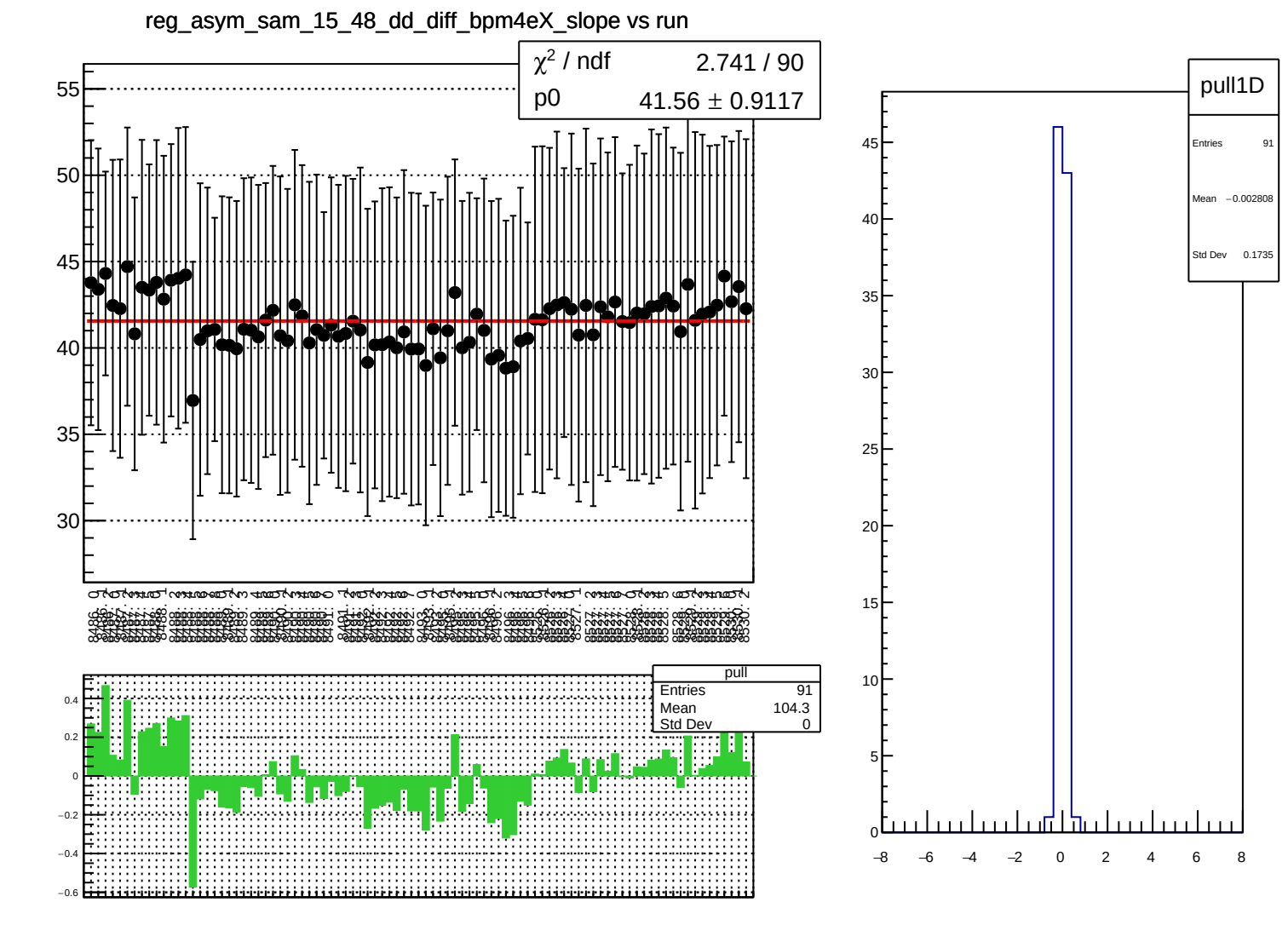

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.269 / 90
p0 8.446 ± 1.903
pull
Entries 91
Mean 654.6
Std Dev 0
pull1D
Entries 91
Mean −0.003294
Std Dev 0.2166

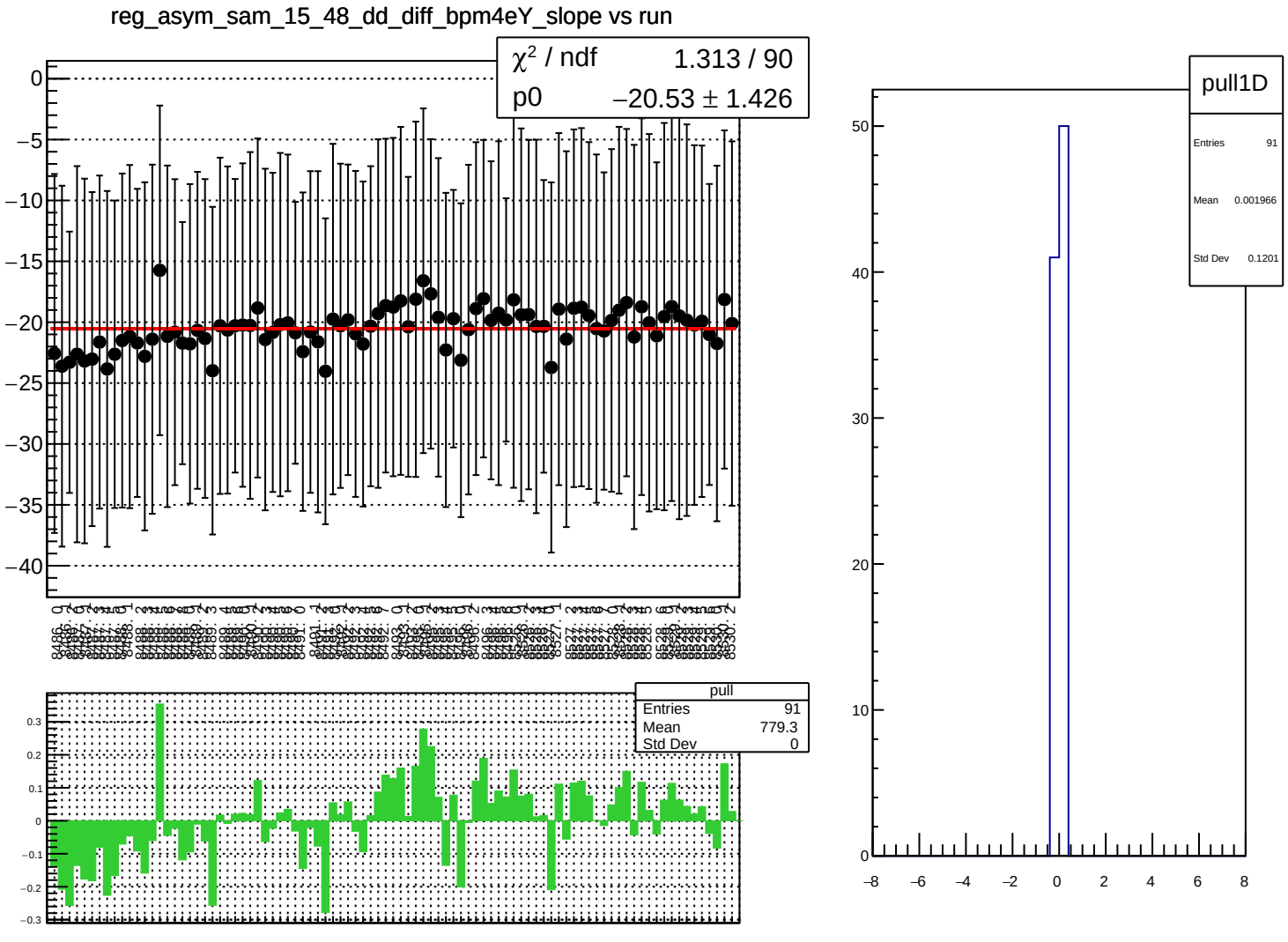

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 6.397 / 90
p0 2.426 ± 0.1138
pull
Entries 91
Mean −413.4
Std Dev 0

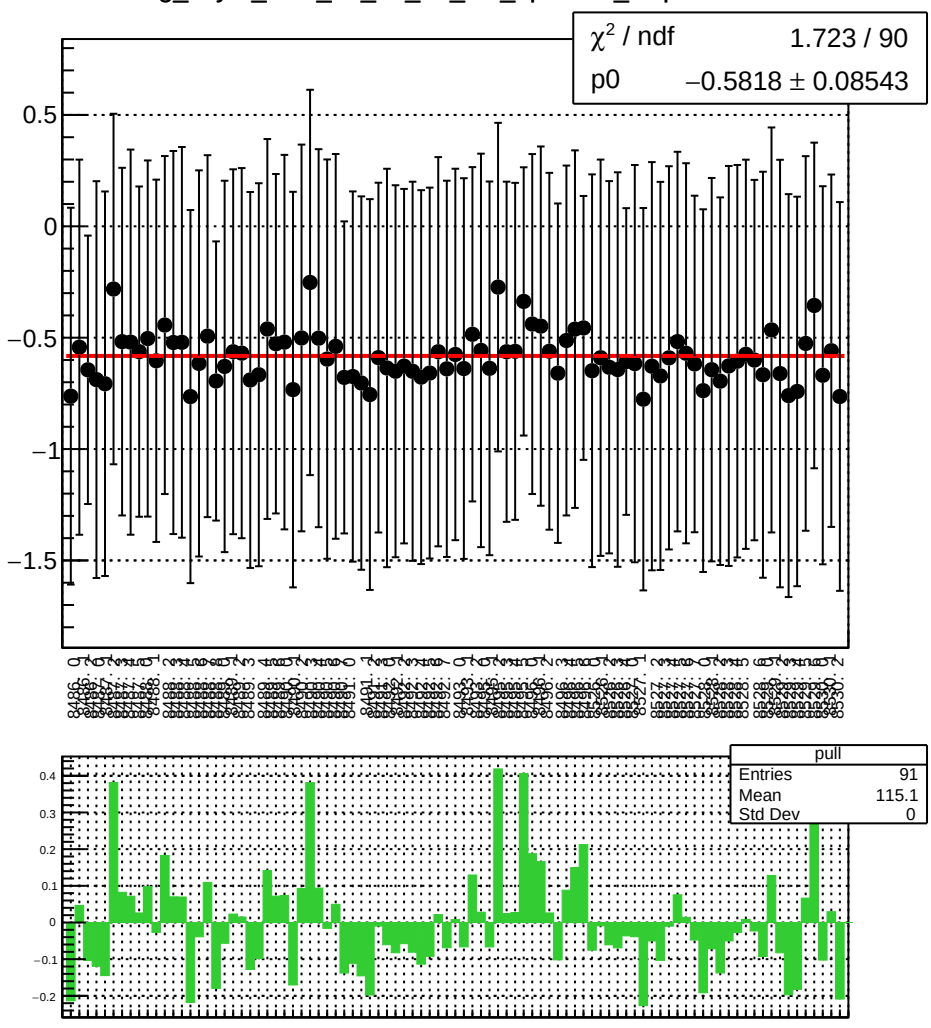

pull1D
Entries 91
Mean 0.005015
Std Dev 0.2651

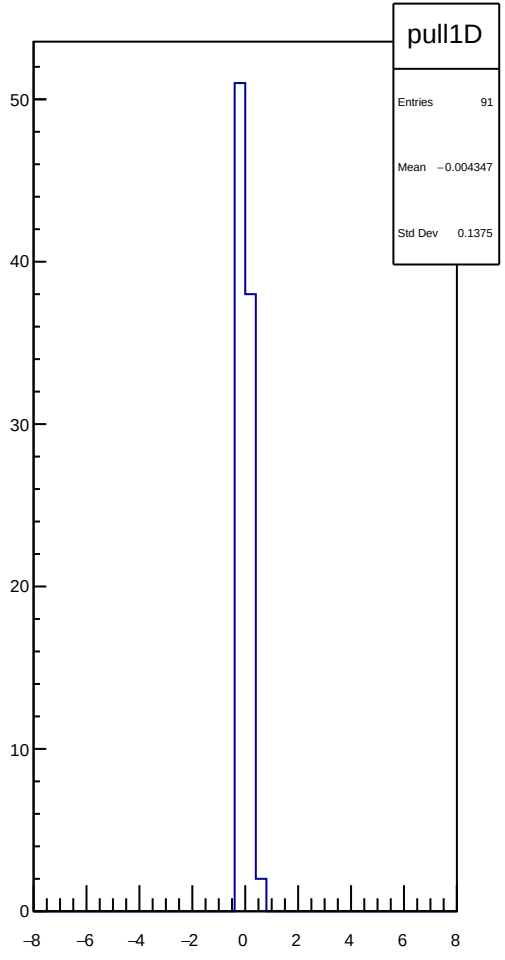

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 4.883 / 90
p0 3.731 ± 0.8364
pull
Entries 91
Mean 242.9
Std Dev 0
pull1D
Entries 91
Mean 0.0156
Std Dev 0.2311

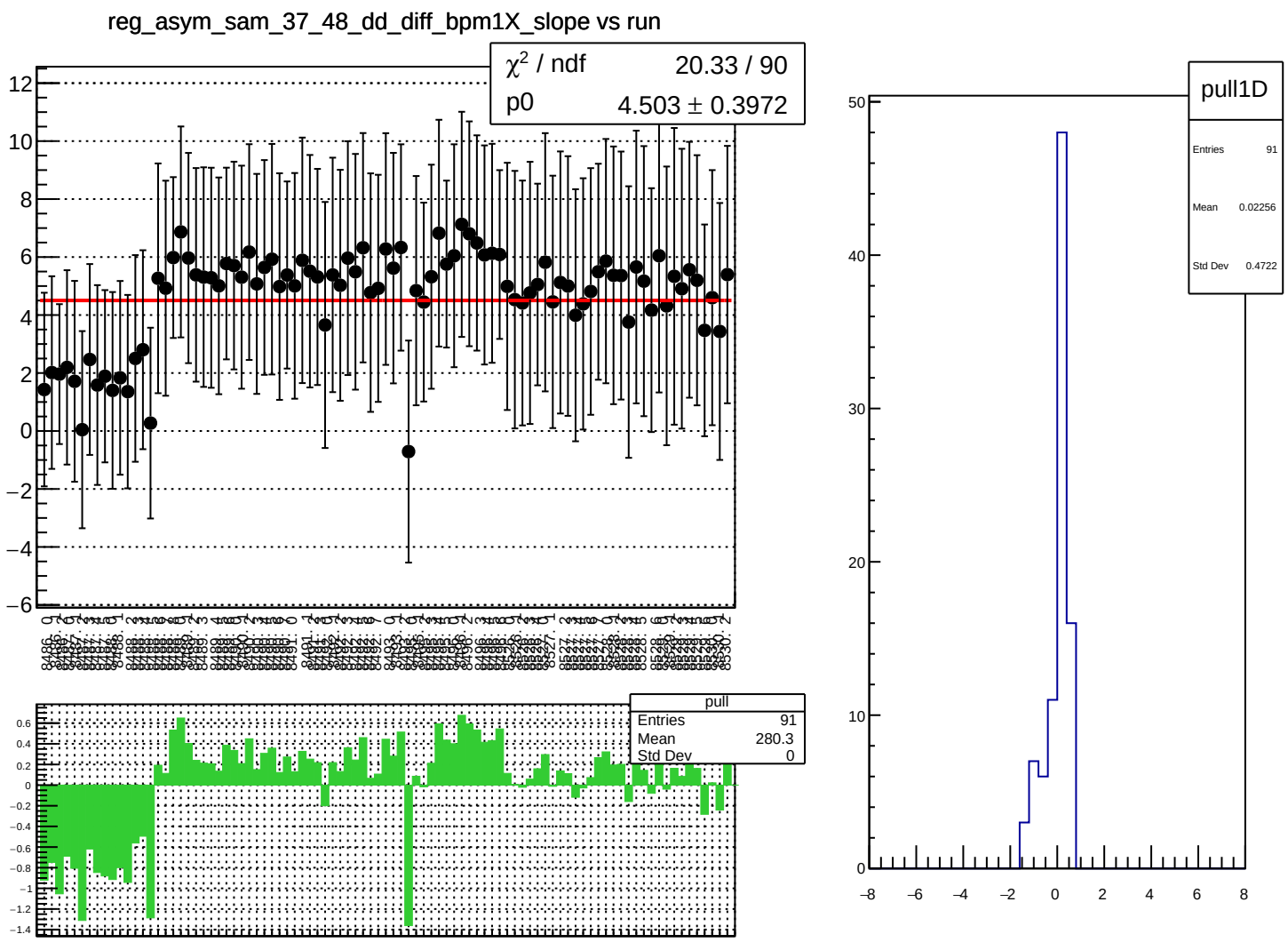

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.267 / 90
p0 −8.083 ± 1.348
pull
Entries 91
Mean 590.6
Std Dev 0
pull1D
Entries 91
Mean −0.002597
Std Dev 0.1179

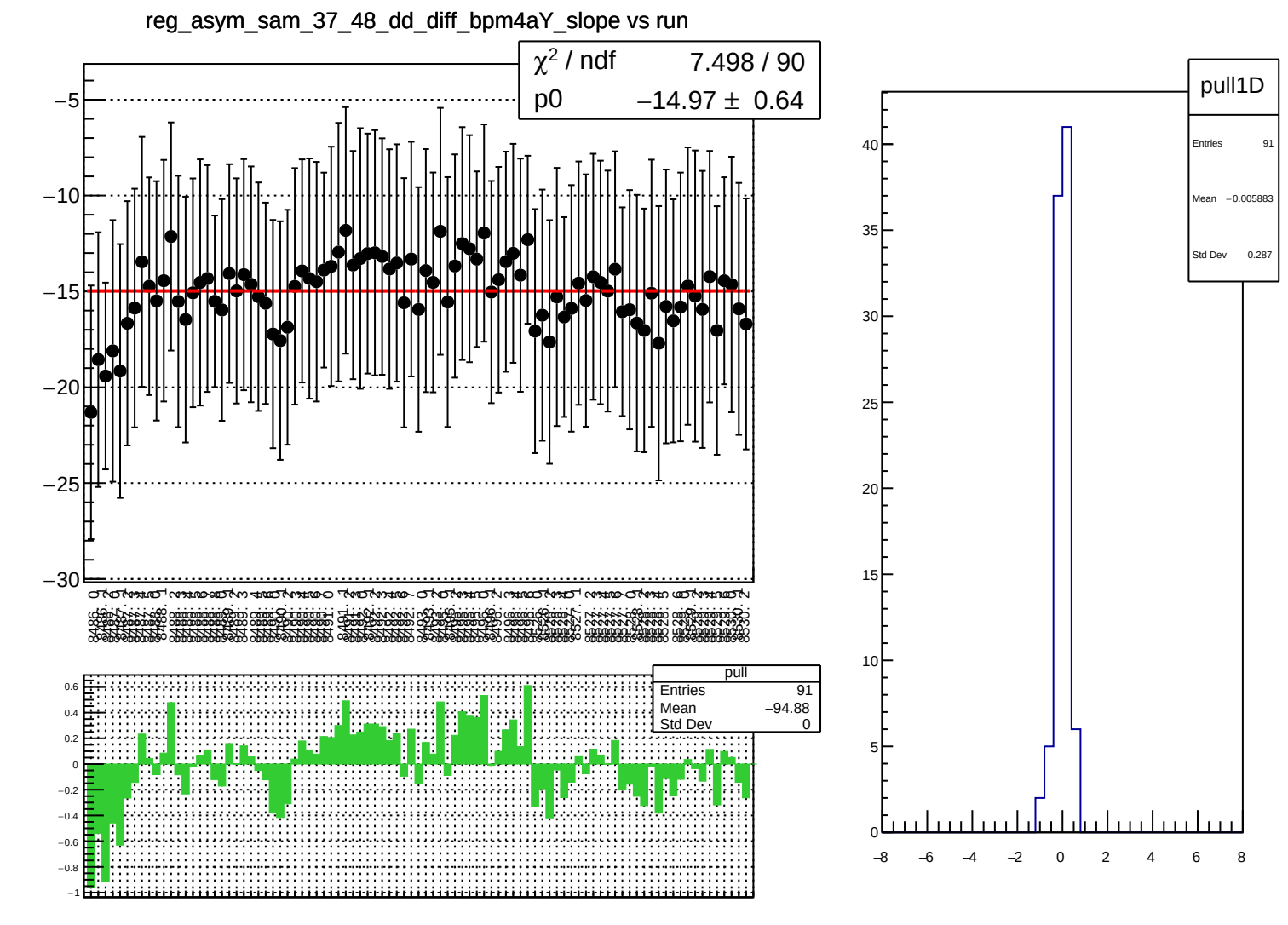

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.741 / 90
p0 41.56 ± 0.9117
pull
Entries 91
Mean 104.3
Std Dev 0
pull1D
Entries 91
Mean −0.002808
Std Dev 0.1735

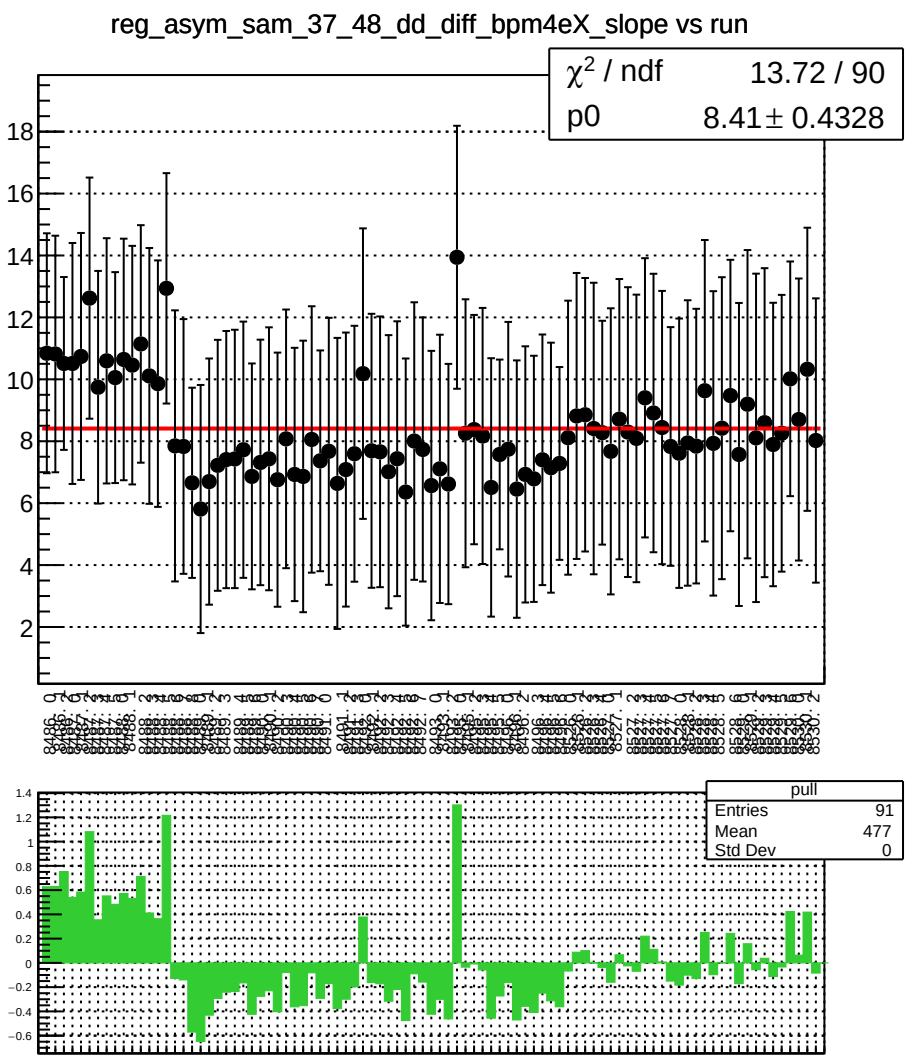

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.313 / 90
p0 −20.53 ± 1.426
pull
Entries 91
Mean 779.3
Std Dev 0
pull1D
Entries 91
Mean 0.001966
Std Dev 0.1201

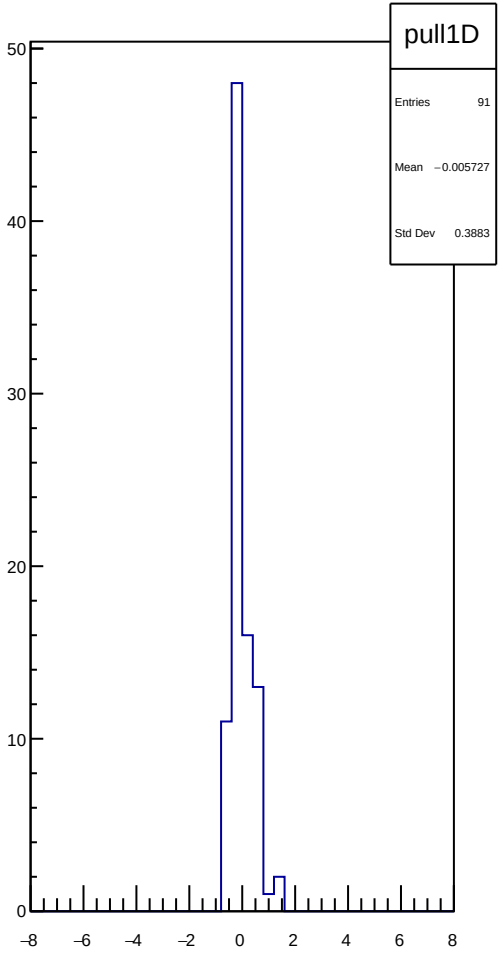

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 1.723 / 90
p0 −0.5818 ± 0.08543
0.5
0
−0.5
−1
−1.5
pull
Entries 91
Mean 115.1
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2

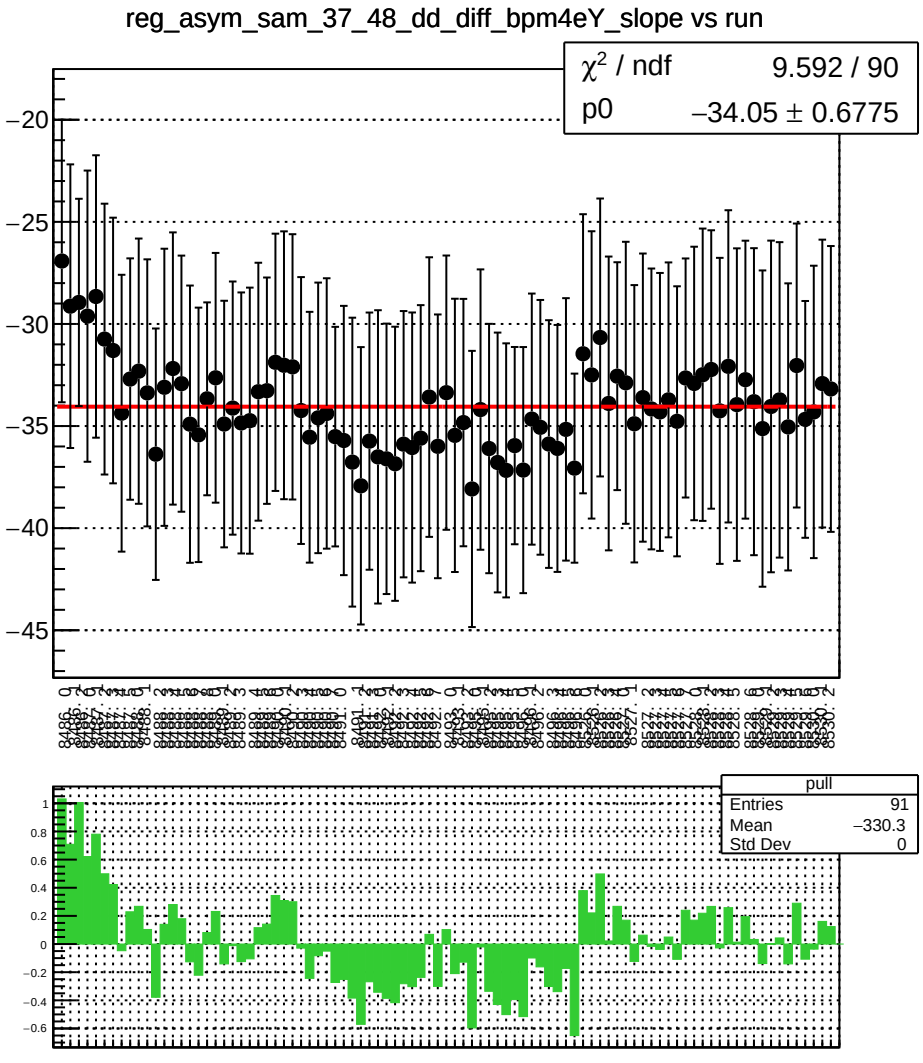

pull1D
Entries 91
Mean −0.004347
Std Dev 0.1375
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

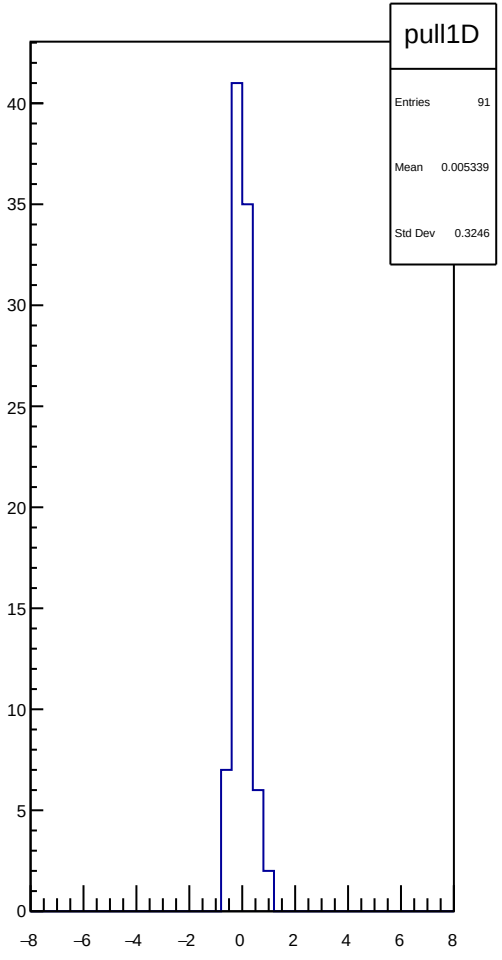

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 20.33 / 90
p0 4.503 ± 0.3972
pull
Entries 91
Mean 280.3
Std Dev 0
pull1D
Entries 91
Mean 0.02256
Std Dev 0.4722

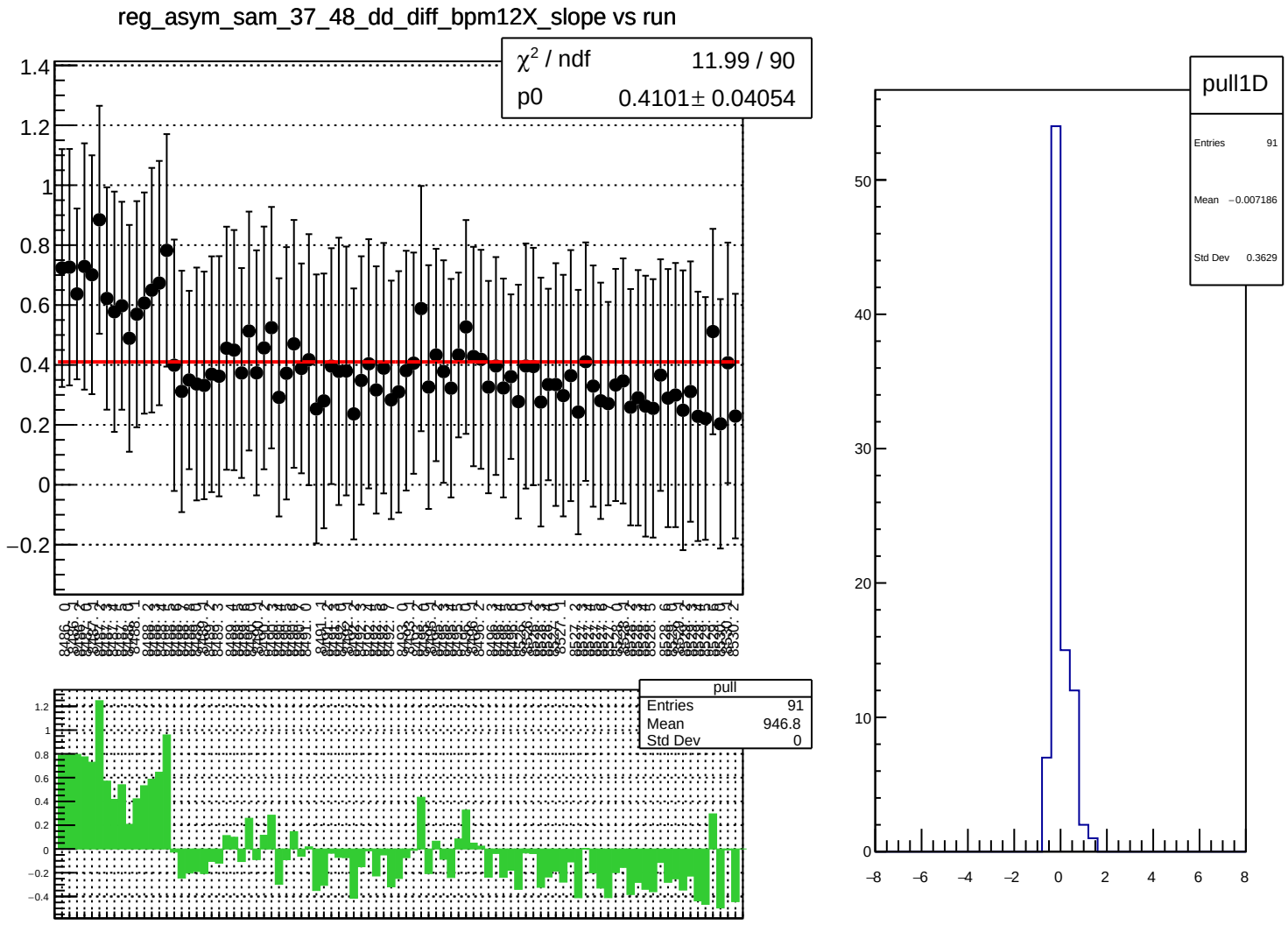

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.498 / 90
p0 −14.97 ± 0.64
pull
Entries 91
Mean −94.88
Std Dev 0
pull1D
Entries 91
Mean −0.005883
Std Dev 0.287

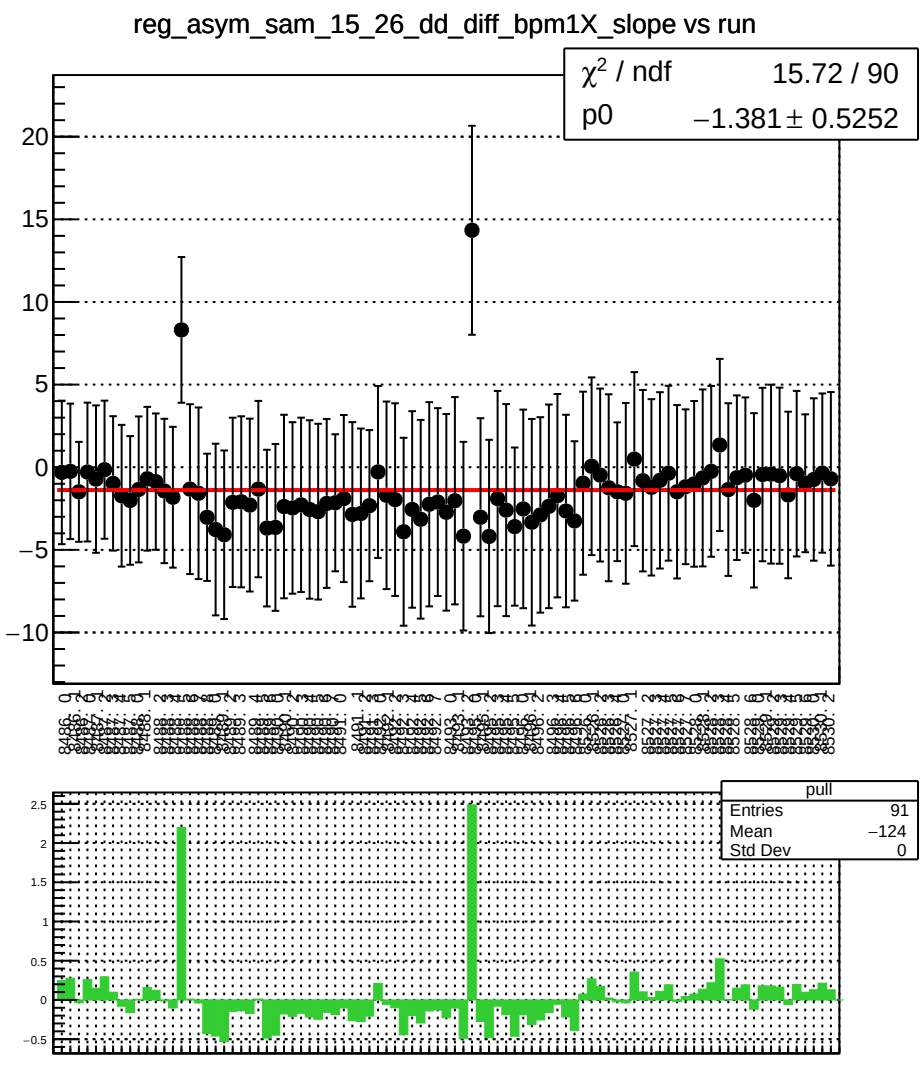

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 13.72 / 90
p0 8.41 ± 0.4328
pull
Entries 91
Mean 477
Std Dev 0

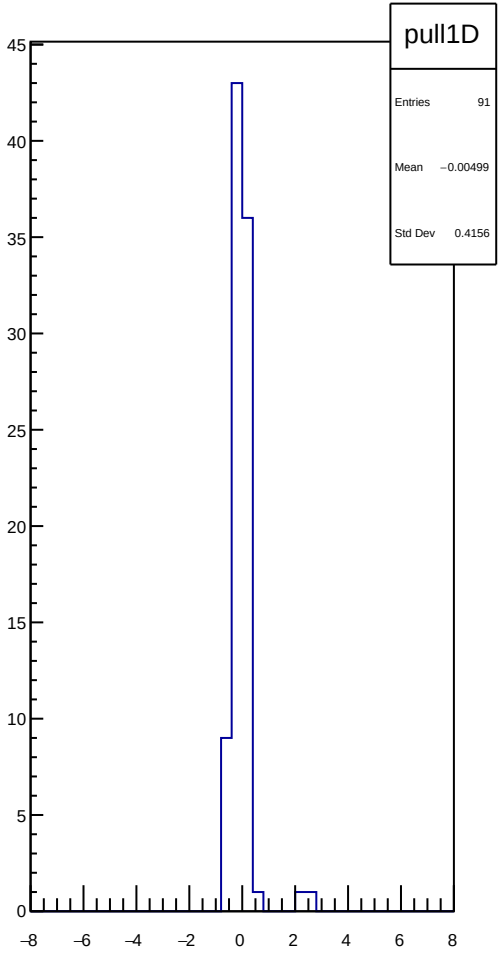

pull1D
Entries 91
Mean −0.005727
Std Dev 0.3883

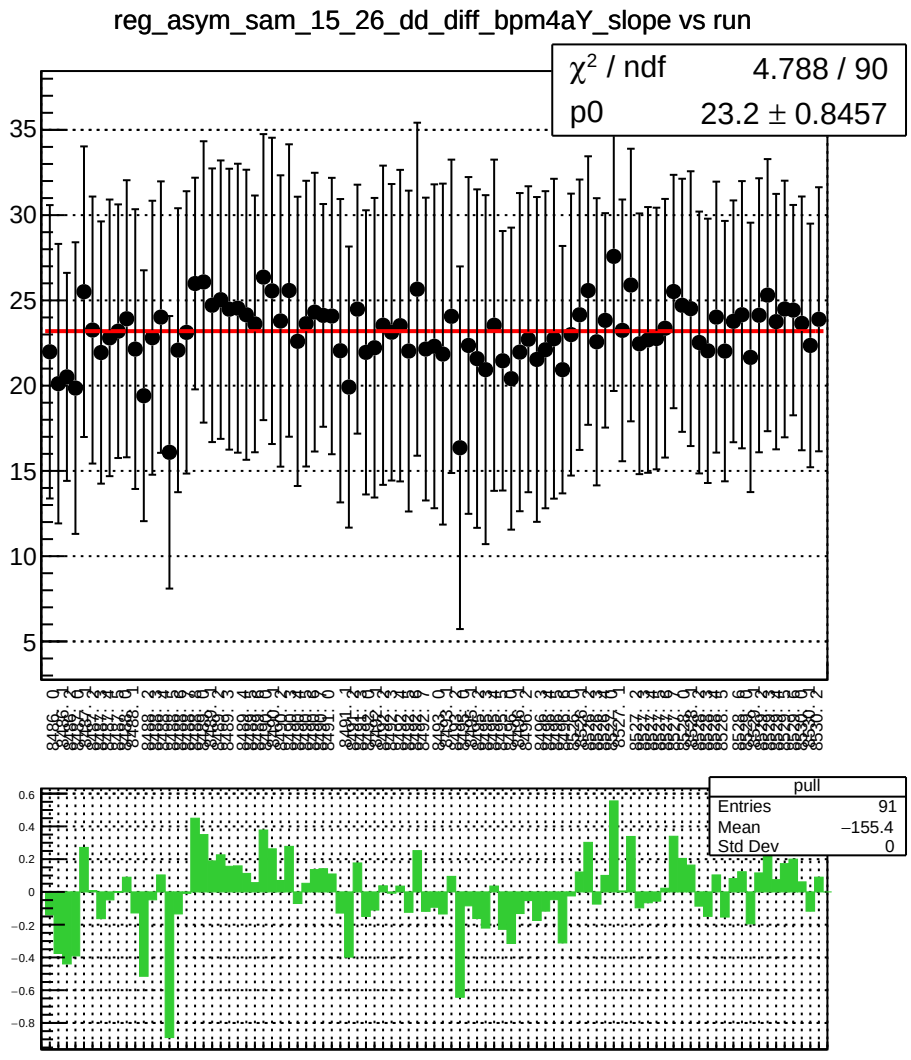

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.592 / 90
p0 −34.05 ± 0.6775
pull
Entries 91
Mean −330.3
Std Dev 0

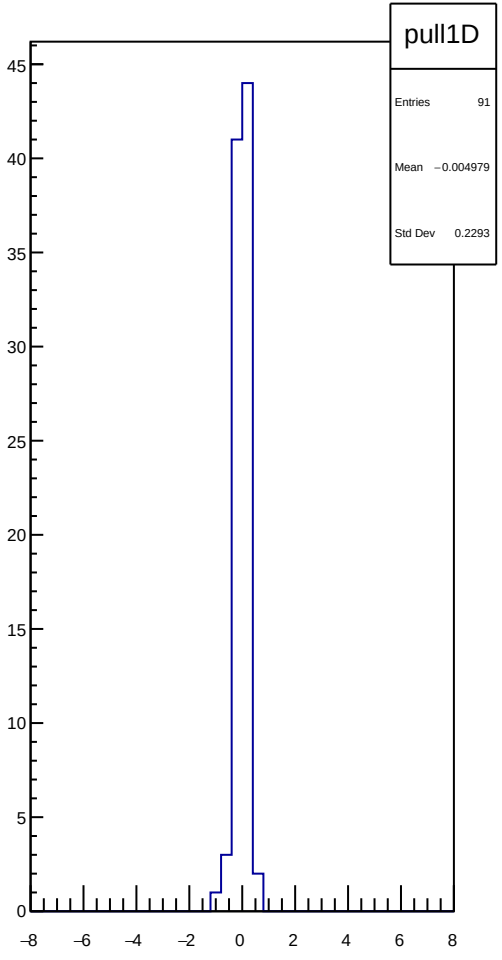

pull1D
Entries 91
Mean 0.005339
Std Dev 0.3246

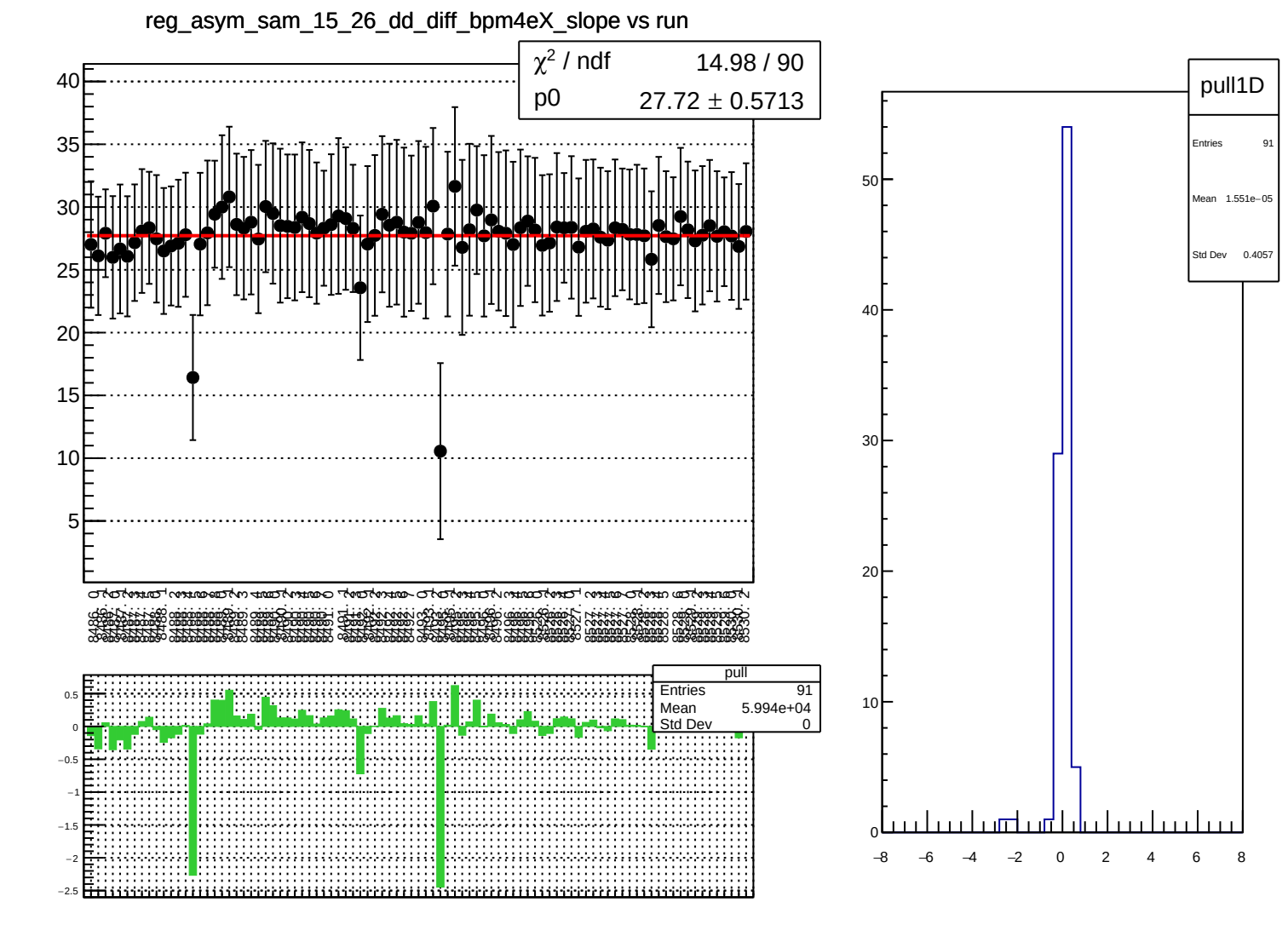

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 11.99 / 90
p0 0.4101± 0.04054
pull
Entries 91
Mean 946.8
Std Dev 0
pull1D
Entries 91
Mean −0.007186
Std Dev 0.3629

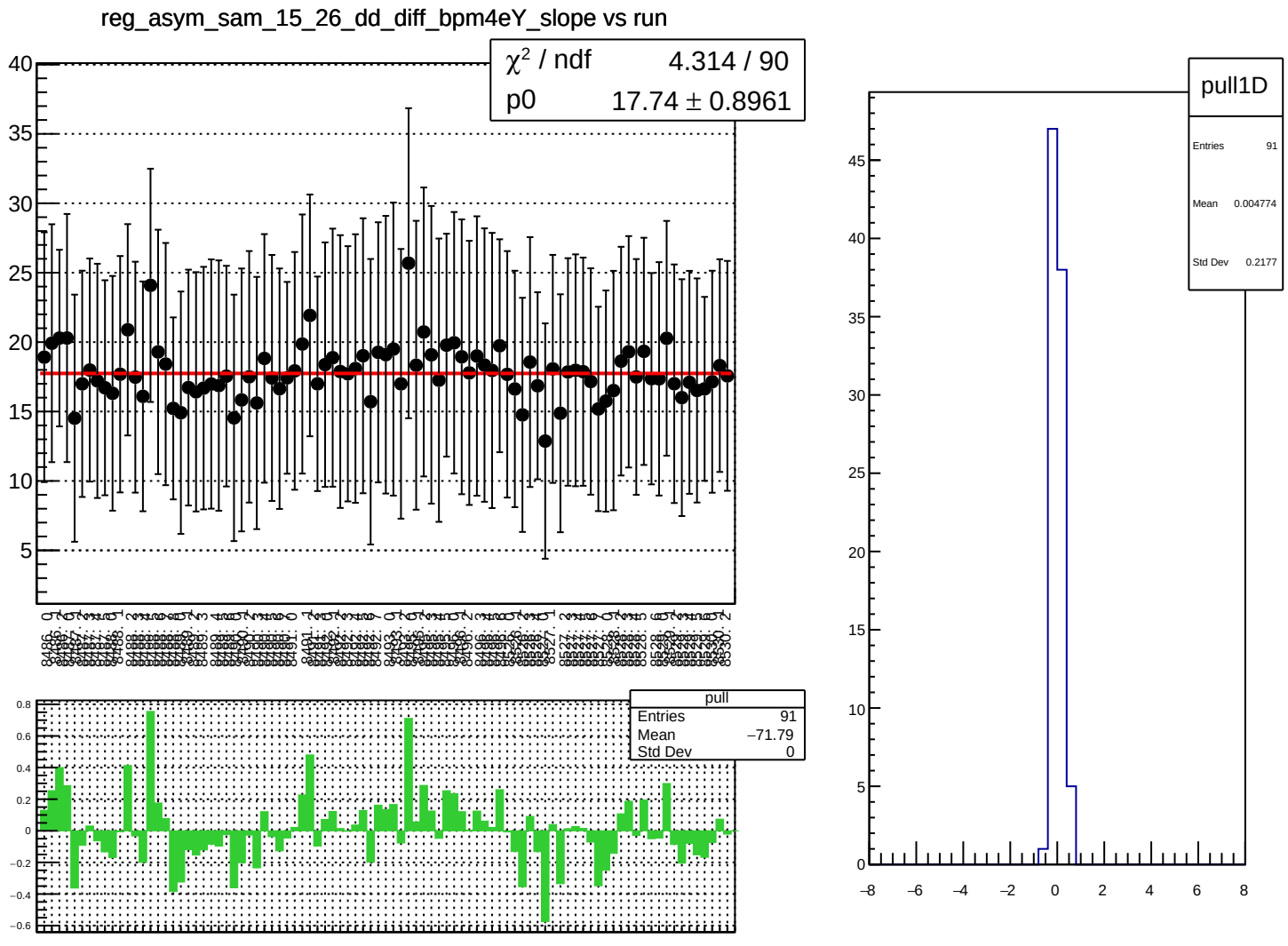

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 15.72 / 90
p0 −1.381 ± 0.5252
pull
Entries 91
Mean −124
Std Dev 0

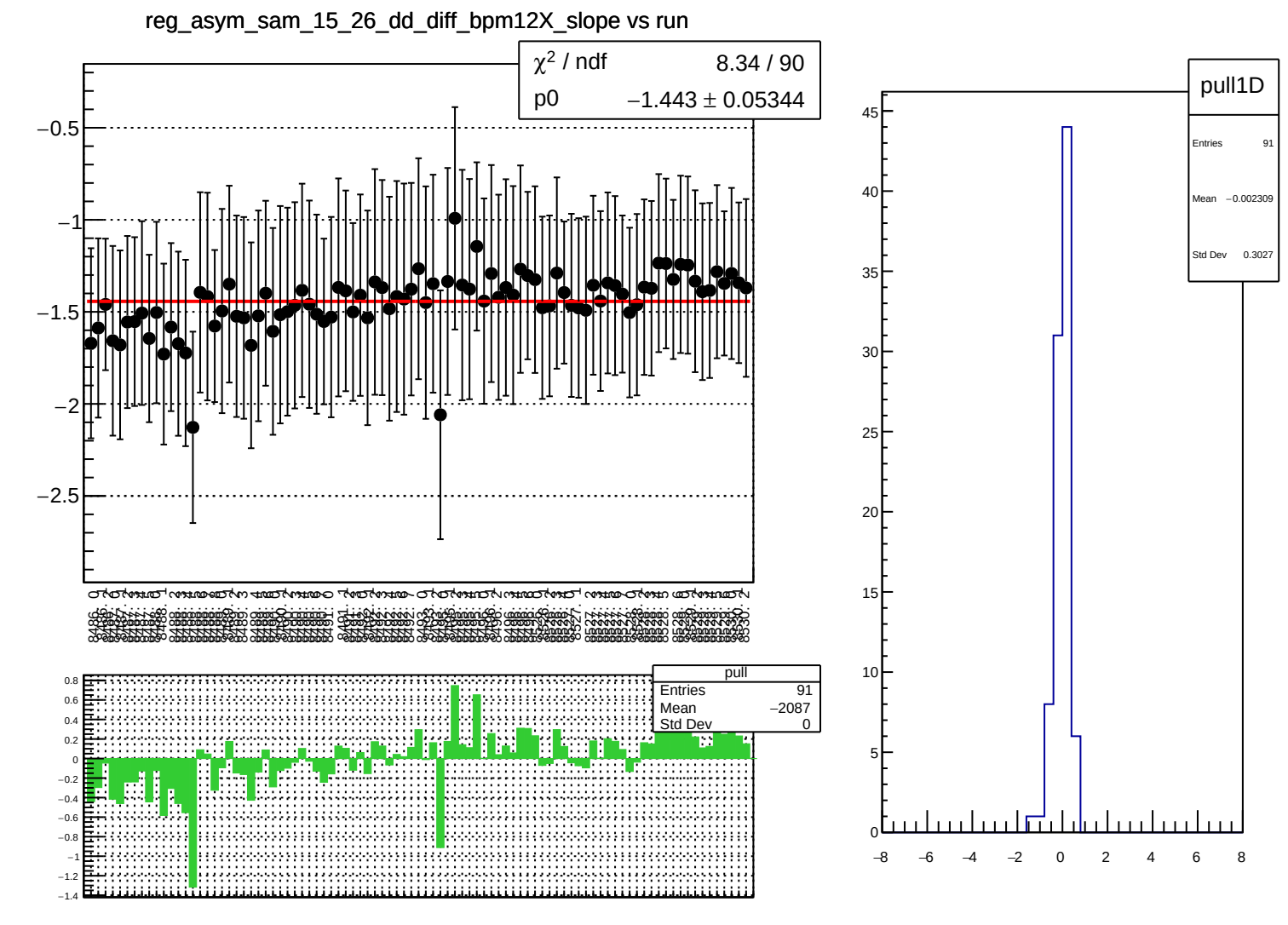

pull1D
Entries 91
Mean −0.00499
Std Dev 0.4156

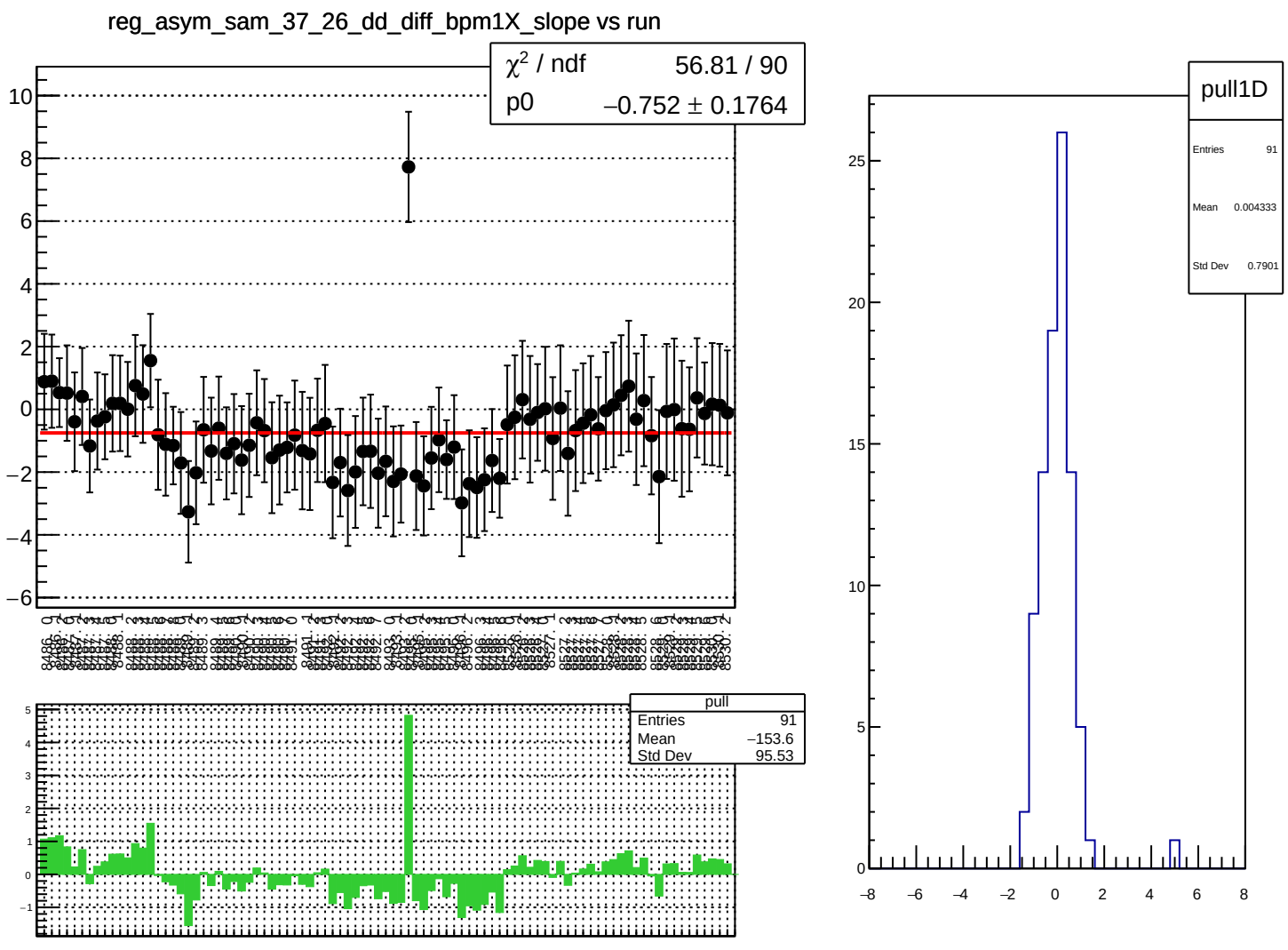

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.788 / 90
p0 23.2 ± 0.8457
pull
Entries 91
Mean −155.4
Std Dev 0

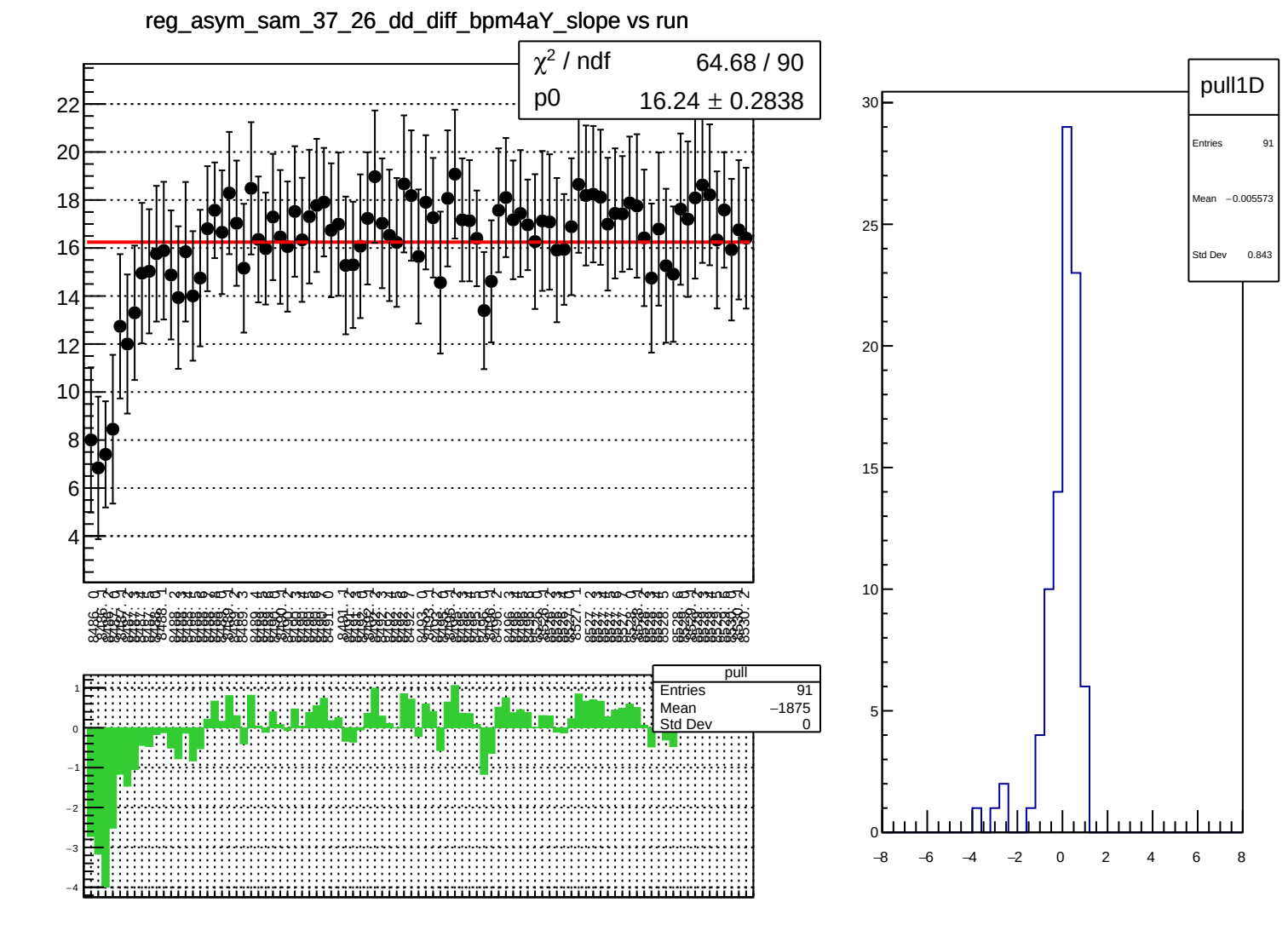

pull1D
Entries 91
Mean −0.004979
Std Dev 0.2293

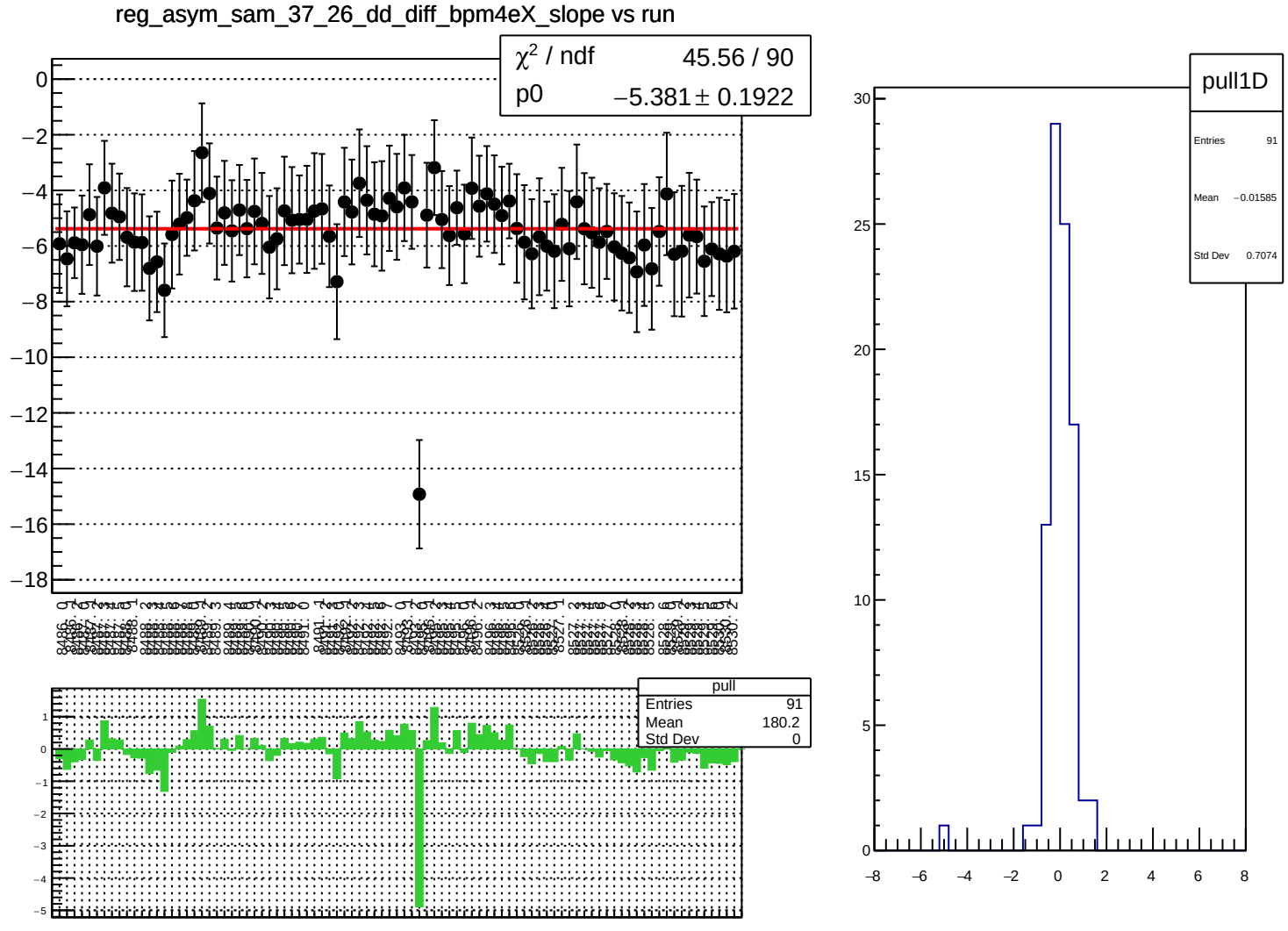

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.98 / 90
p0 27.72 ± 0.5713
pull
Entries 91
Mean 5.994e+04
Std Dev 0
pull1D
Entries 91
Mean 1.551e−05
Std Dev 0.4057

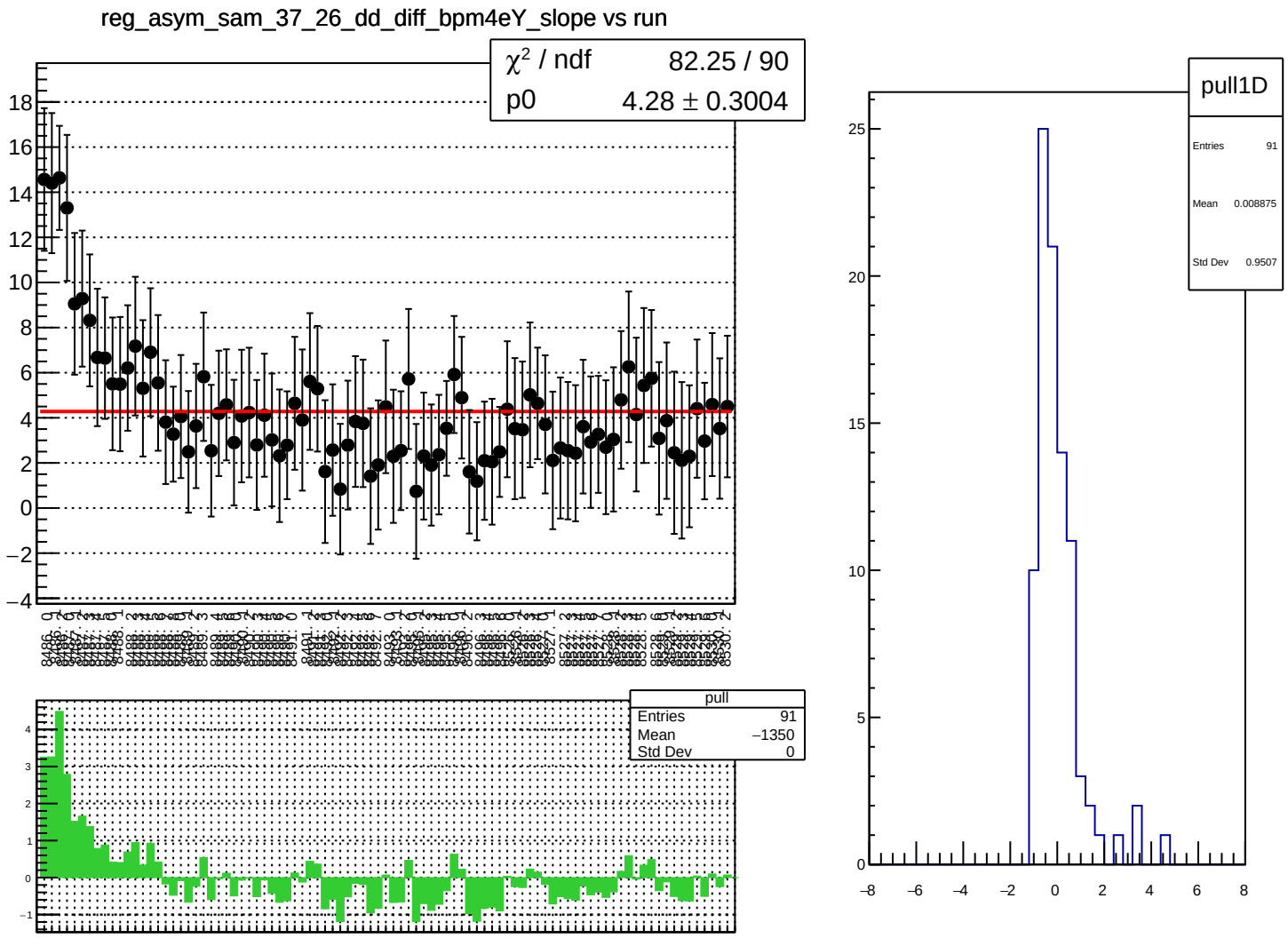

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.314 / 90
p0 17.74 ± 0.8961
pull
Entries 91
Mean −71.79
Std Dev 0
pull1D
Entries 91
Mean 0.004774
Std Dev 0.2177

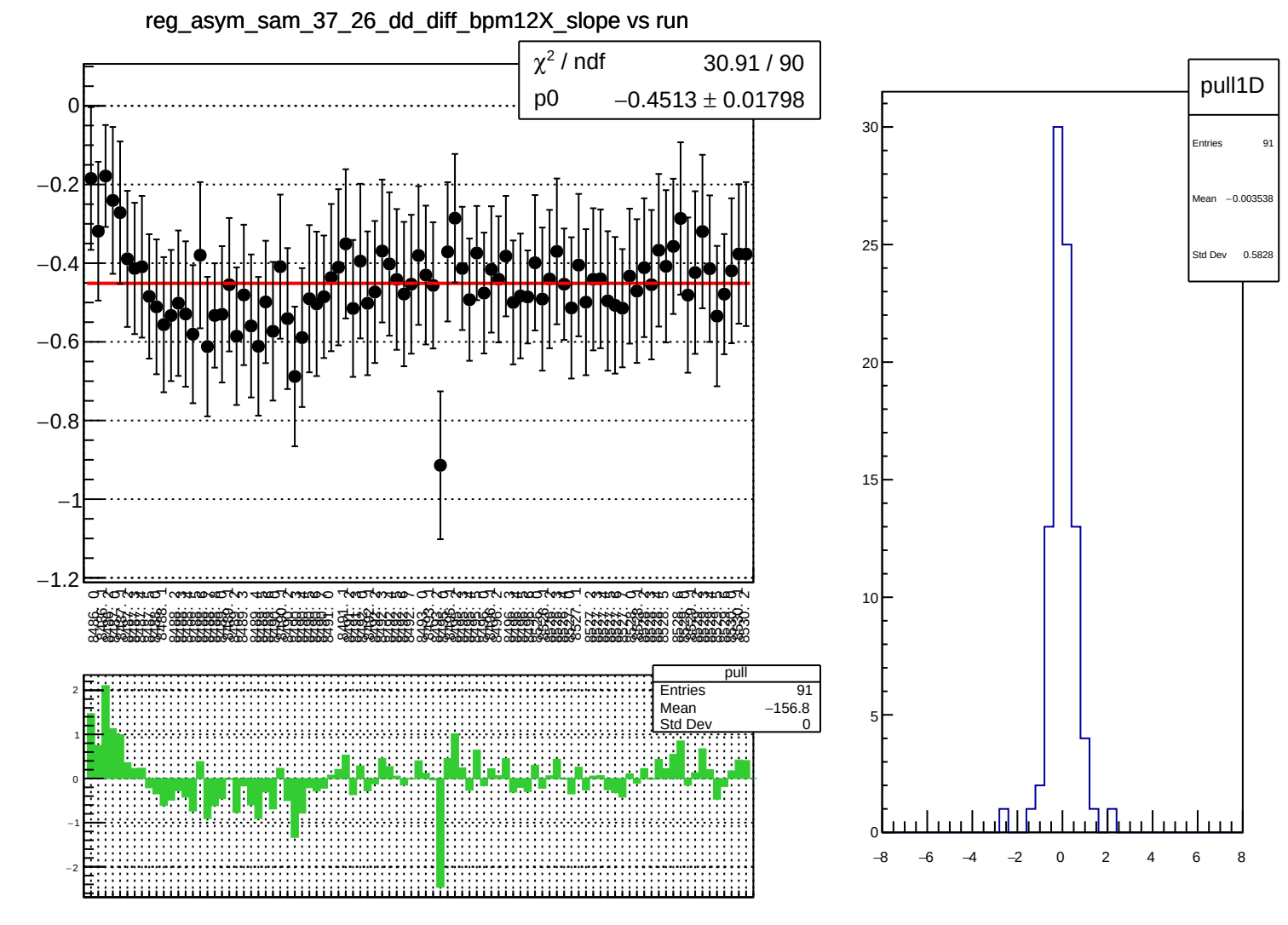

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 8.34 / 90
p0 −1.443 ± 0.05344
pull
Entries 91
Mean −2087
Std Dev 0
pull1D
Entries 91
Mean −0.002309
Std Dev 0.3027

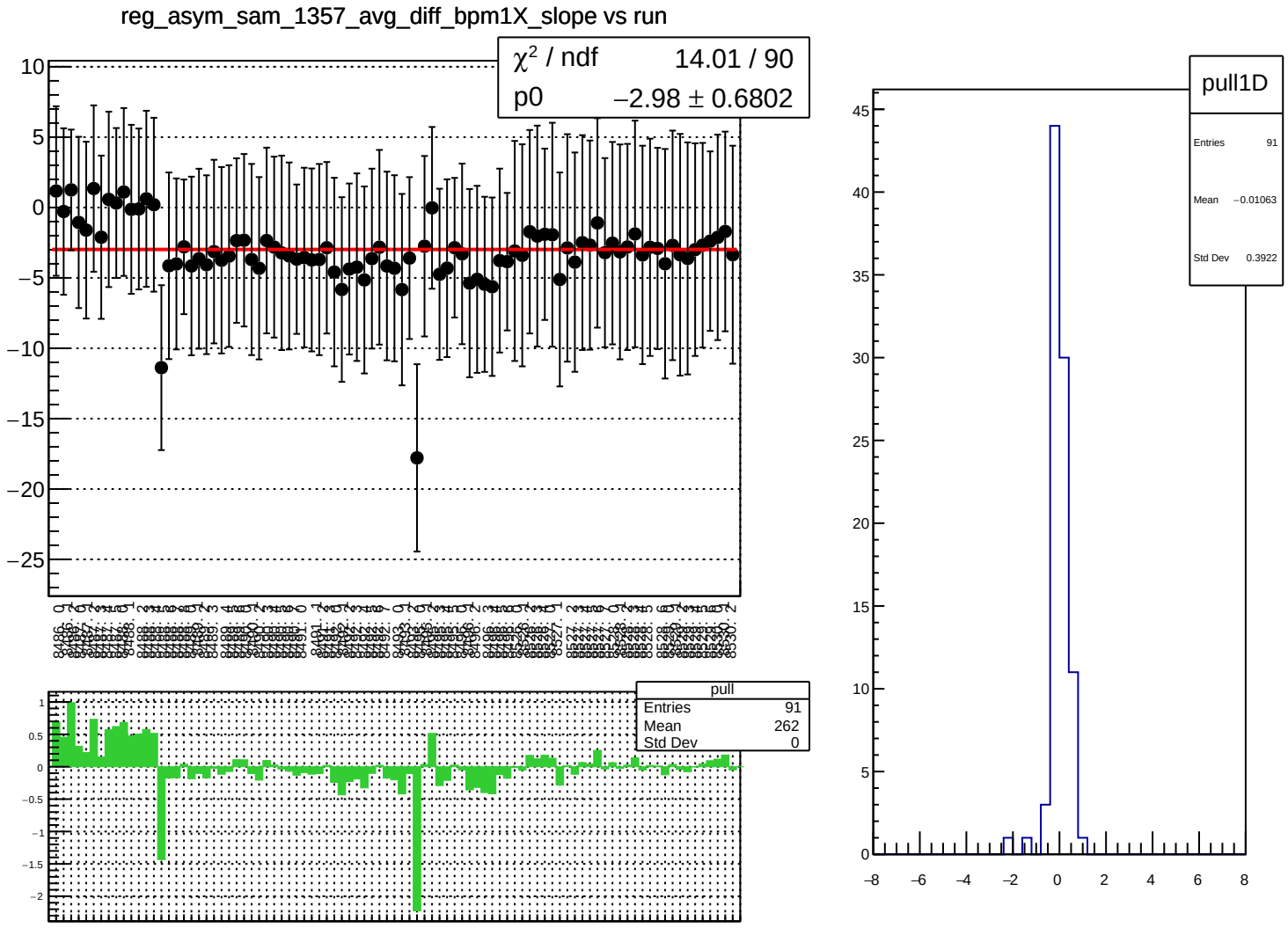

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 56.81 / 90
p0 −0.752 ± 0.1764
pull
Entries 91
Mean −153.6
Std Dev 95.53
pull1D
Entries 91
Mean 0.004333
Std Dev 0.7901

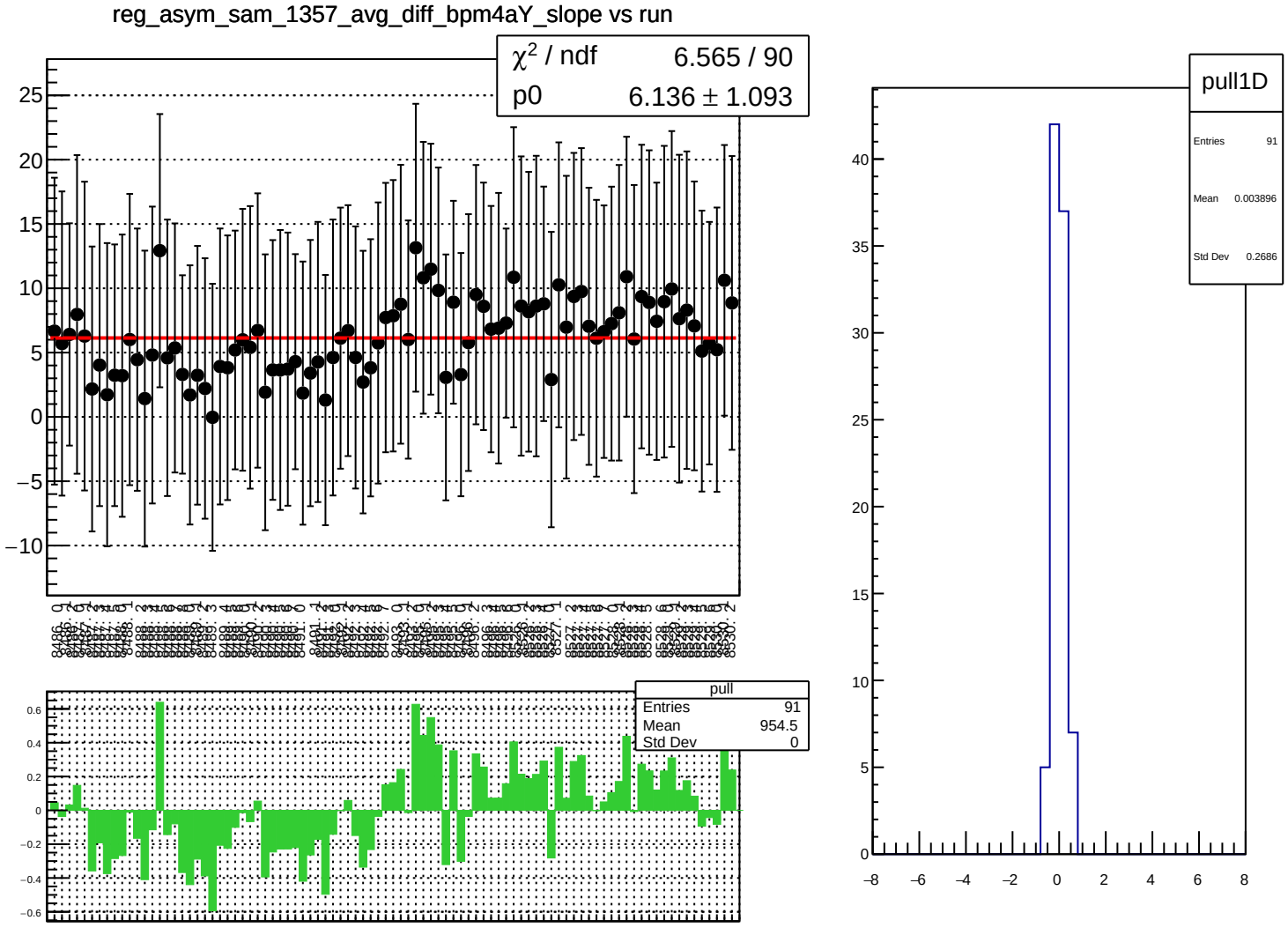

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 64.68 / 90
p0 16.24 ± 0.2838
pull
Entries 91
Mean −1875
Std Dev 0
pull1D
Entries 91
Mean −0.005573
Std Dev 0.843

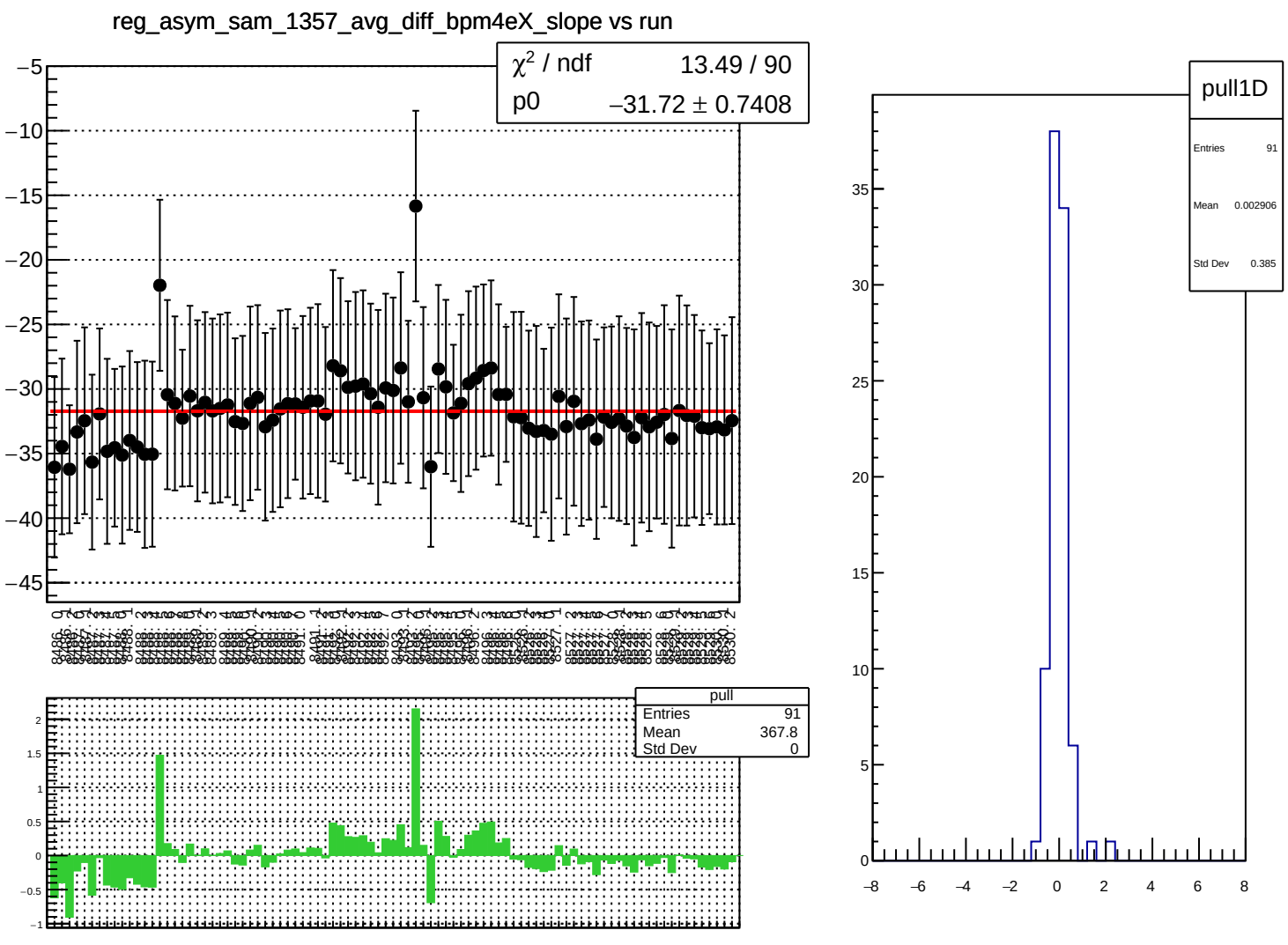

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 45.56 / 90
p0 −5.381 ± 0.1922
pull
Entries 91
Mean 180.2
Std Dev 0
pull1D
Entries 91
Mean −0.01585
Std Dev 0.7074

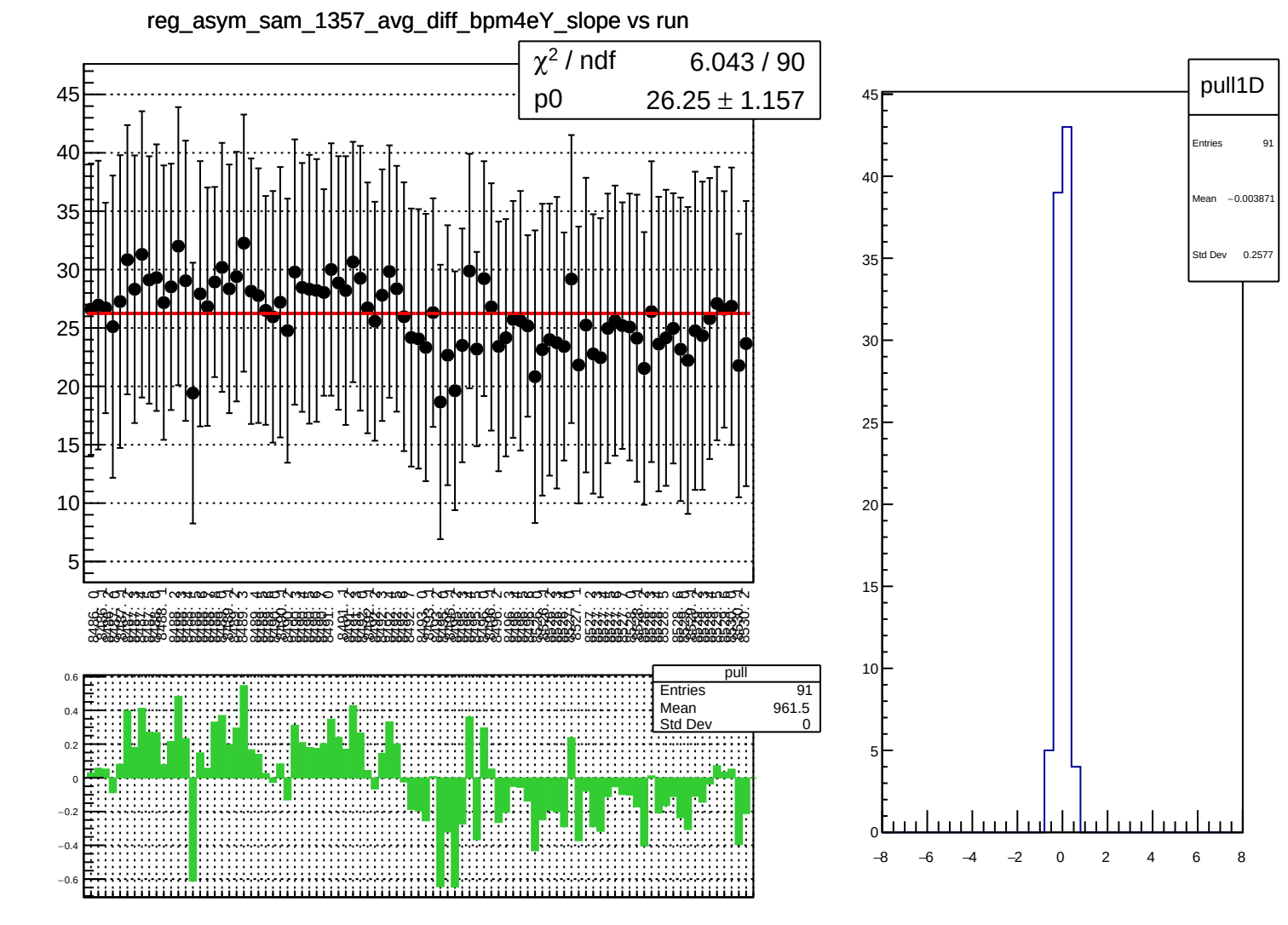

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 82.25 / 90
p0 4.28 ± 0.3004
pull
Entries 91
Mean −1350
Std Dev 0
pull1D
Entries 91
Mean 0.008875
Std Dev 0.9507

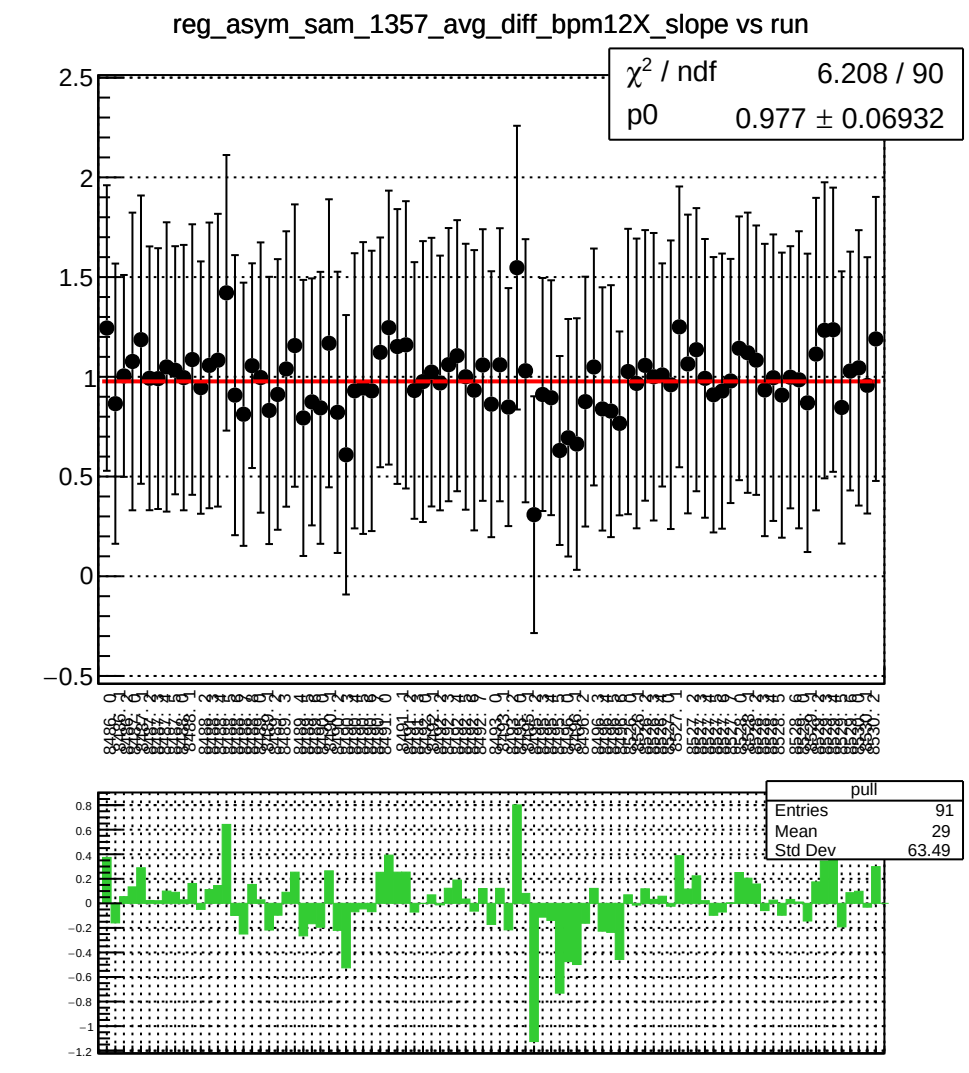

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 30.91 / 90
p0 −0.4513 ± 0.01798
pull
Entries 91
Mean −156.8
Std Dev 0
pull1D
Entries 91
Mean −0.003538
Std Dev 0.5828

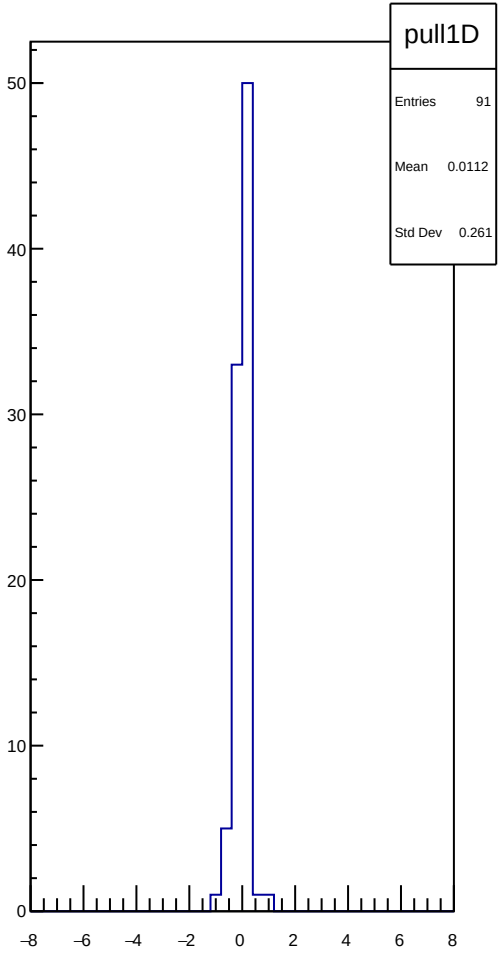

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 14.01 / 90
p0 −2.98 ± 0.6802
pull
Entries 91
Mean 262
Std Dev 0
pull1D
Entries 91
Mean −0.01063
Std Dev 0.3922

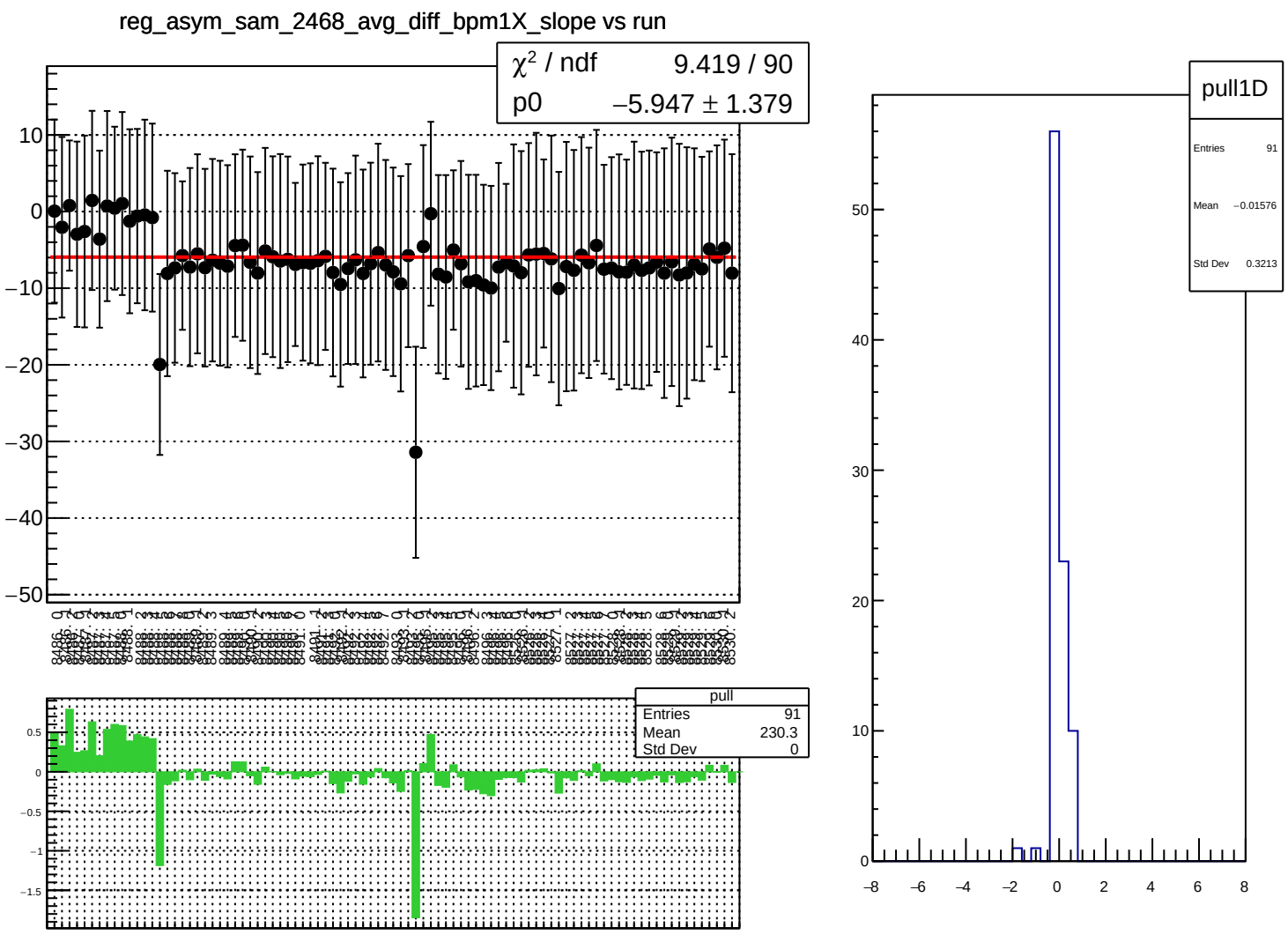

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.565 / 90
p0 6.136 ± 1.093
pull
Entries 91
Mean 954.5
Std Dev 0
pull1D
Entries 91
Mean 0.003896
Std Dev 0.2686

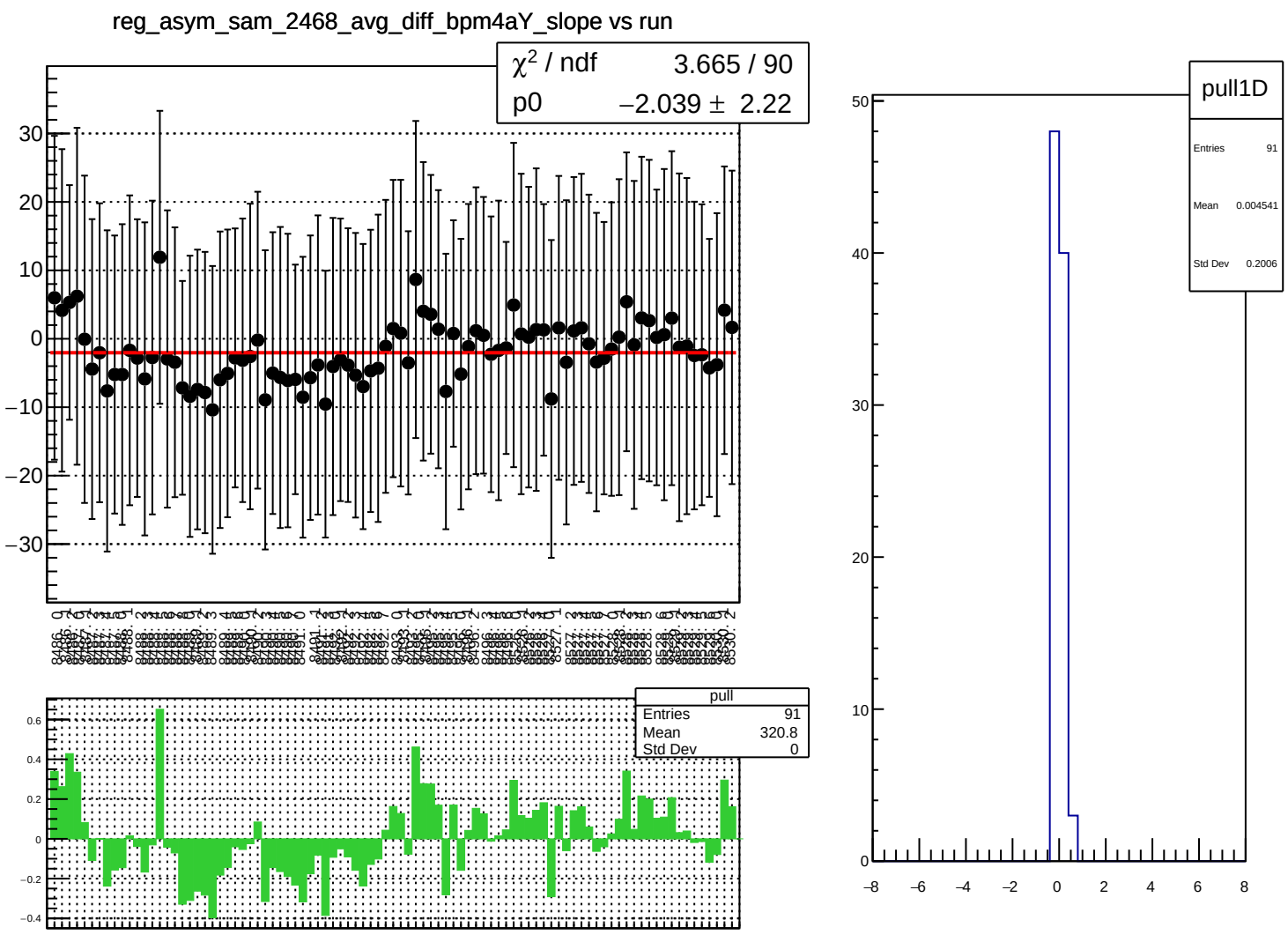

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 13.49 / 90
p0 −31.72 ± 0.7408
pull
Entries 91
Mean 367.8
Std Dev 0
pull1D
Entries 91
Mean 0.002906
Std Dev 0.385

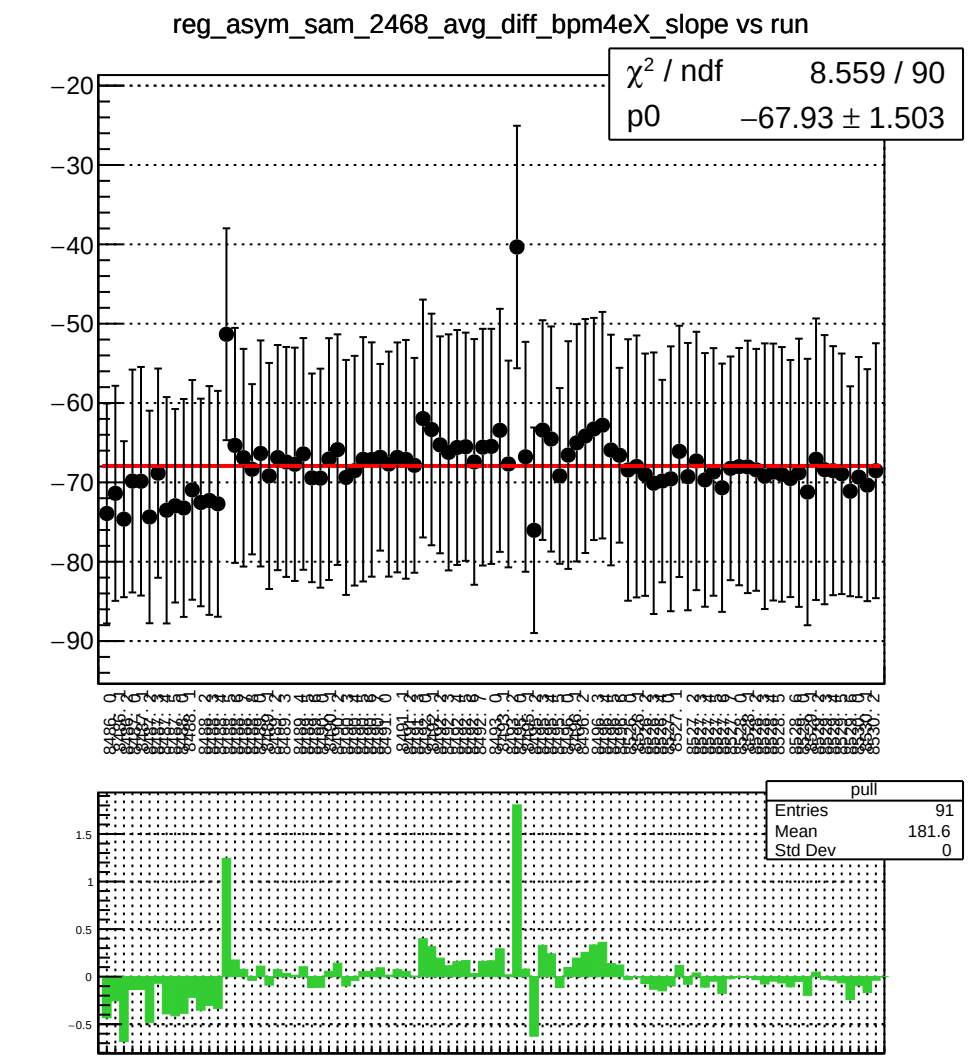

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 6.043 / 90
p0 26.25 ± 1.157
pull
Entries 91
Mean 961.5
Std Dev 0
pull1D
Entries 91
Mean −0.003871
Std Dev 0.2577

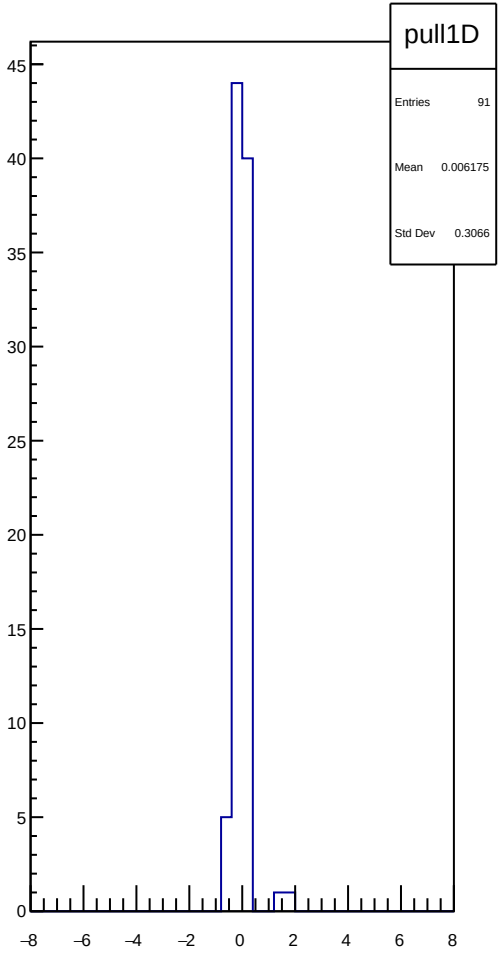

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 6.208 / 90
p0 0.977 ± 0.06932
pull
Entries 91
Mean 29
Std Dev 63.49

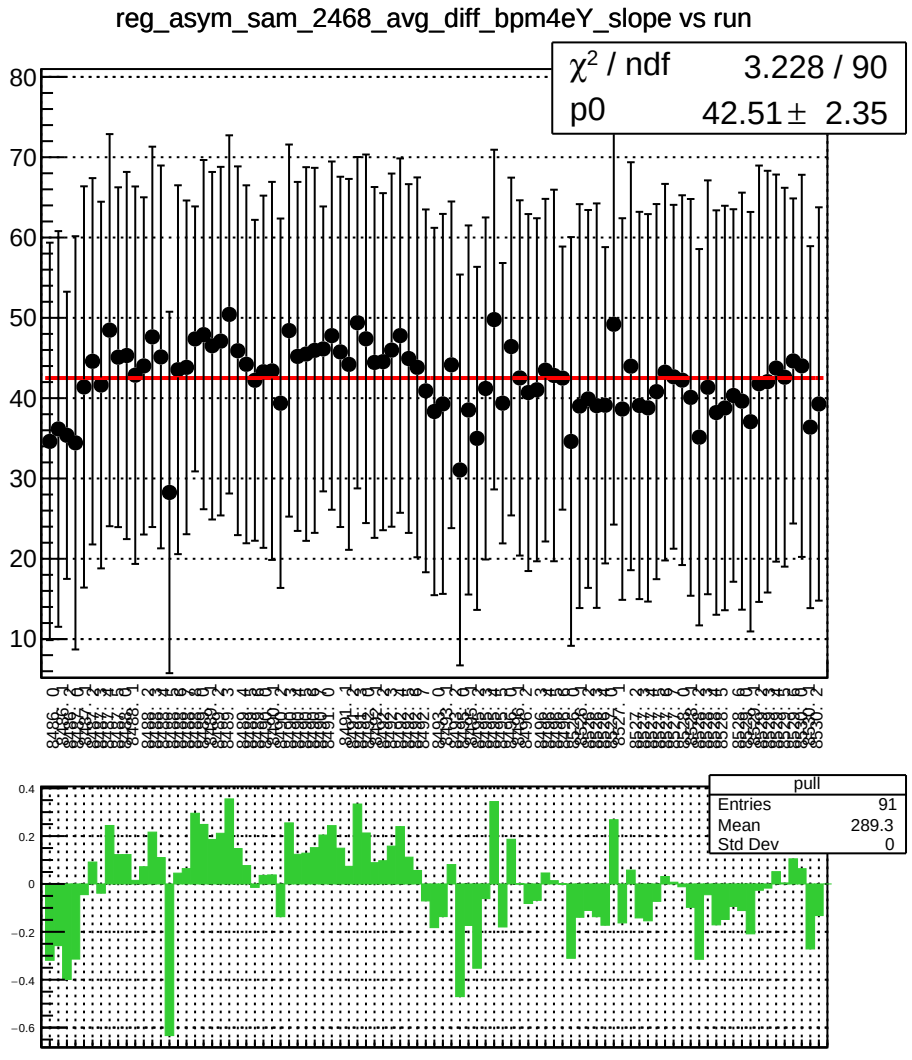

pull1D
Entries 91
Mean 0.0112
Std Dev 0.261

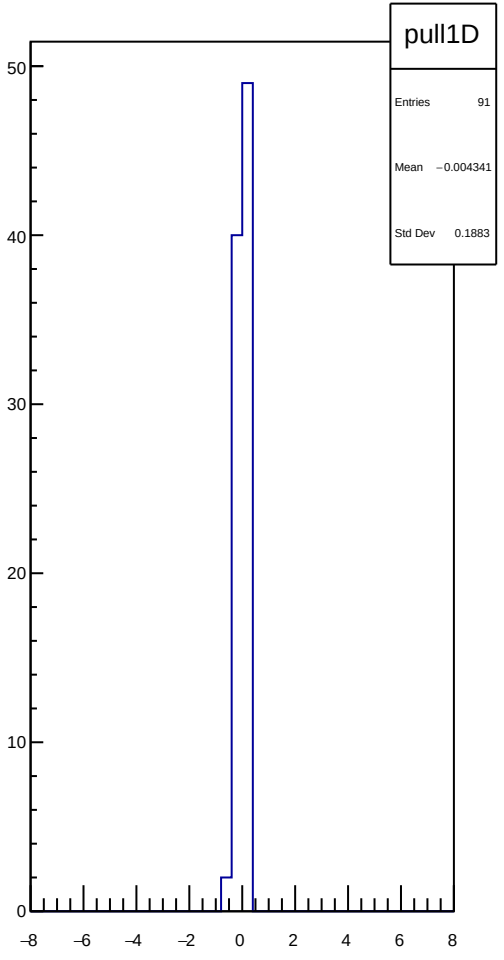

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 9.419 / 90
p0 −5.947 ± 1.379
pull
Entries 91
Mean 230.3
Std Dev 0
pull1D
Entries 91
Mean −0.01576
Std Dev 0.3213

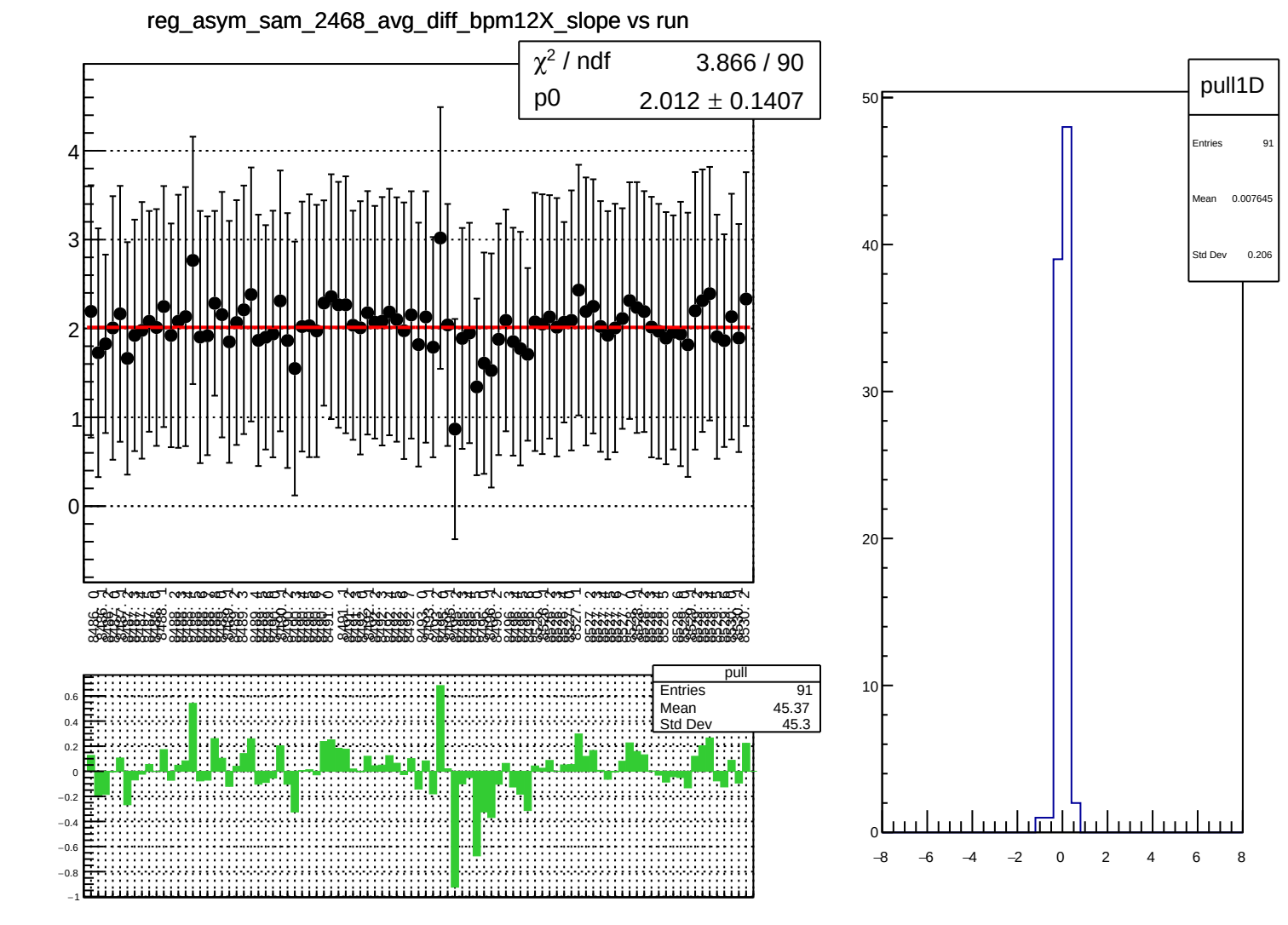

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.665 / 90
p0 −2.039 ± 2.22
pull
Entries 91
Mean 320.8
Std Dev 0
pull1D
Entries 91
Mean 0.004541
Std Dev 0.2006

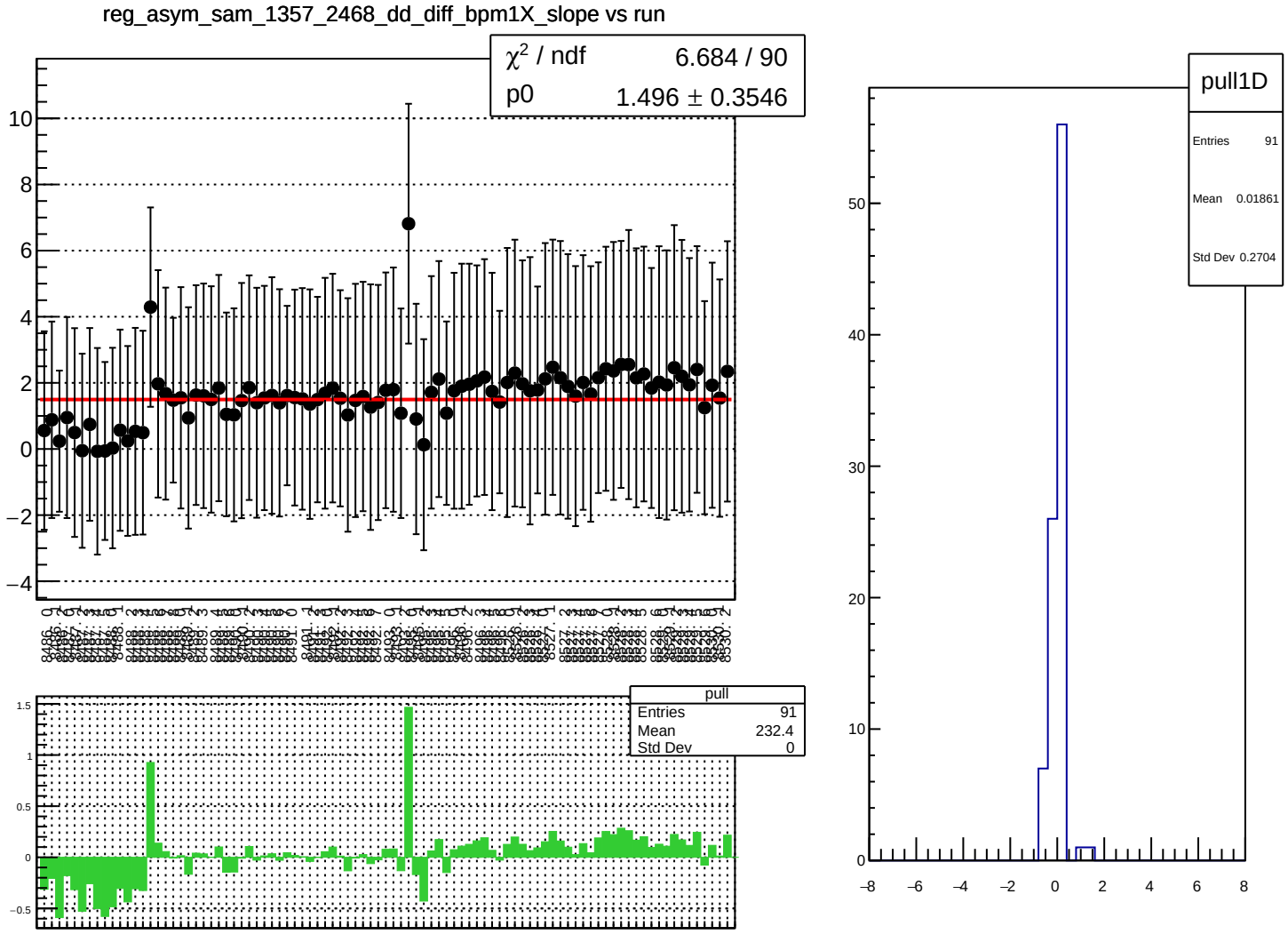

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.559 / 90
p0 −67.93 ± 1.503
pull
Entries 91
Mean 181.6
Std Dev 0

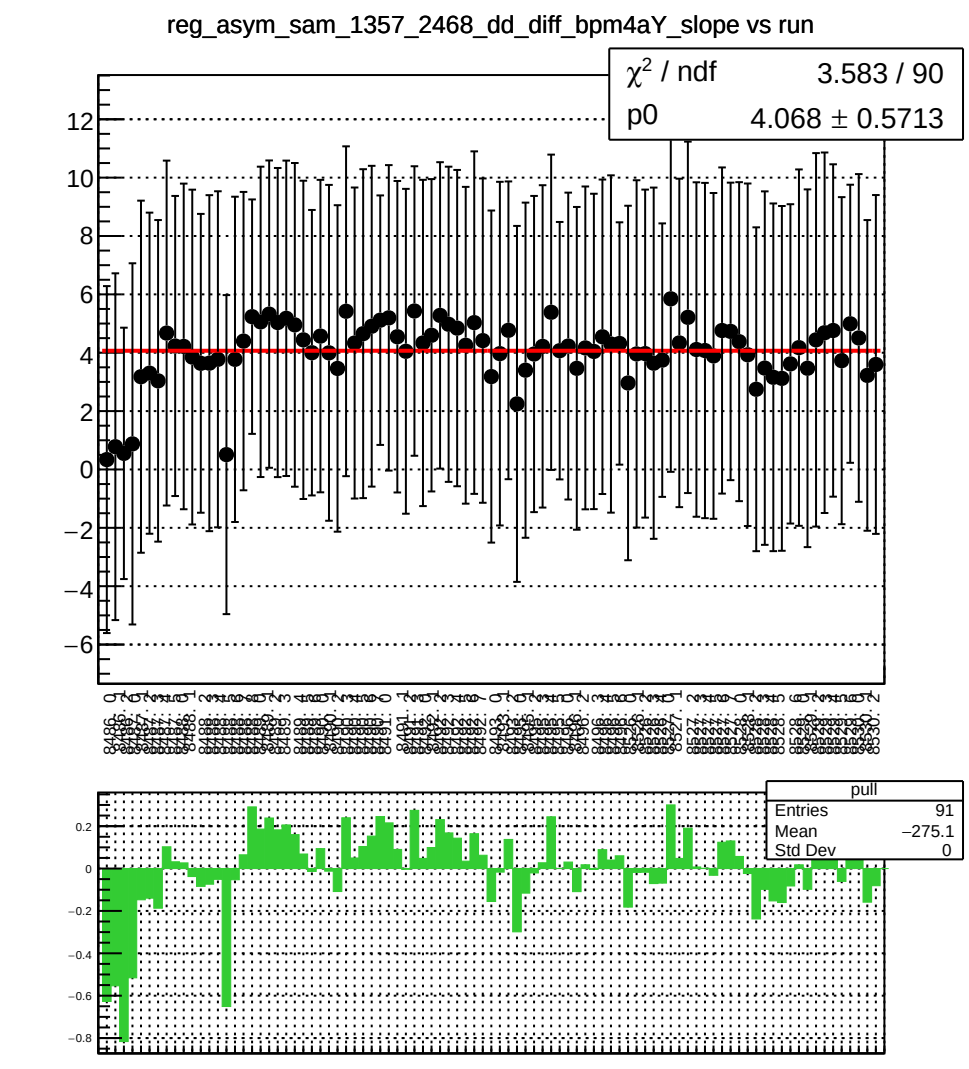

pull1D
Entries 91
Mean 0.006175
Std Dev 0.3066

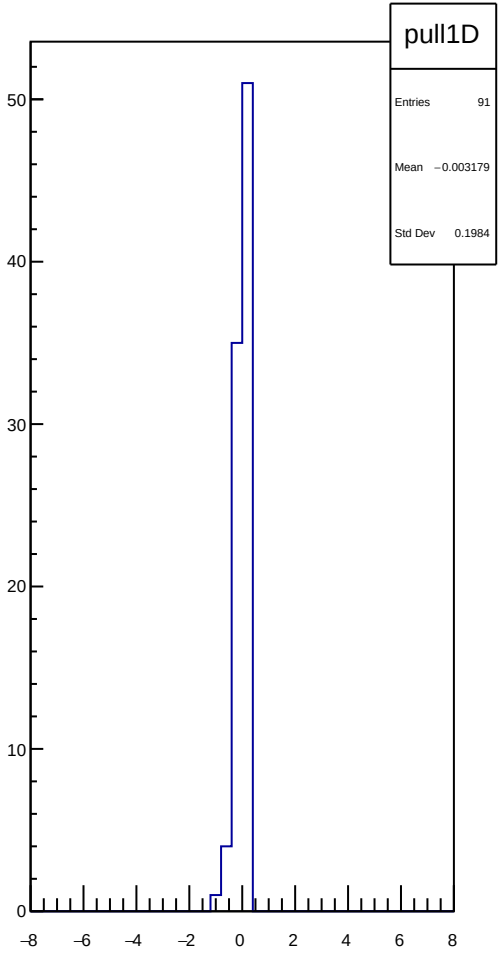

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.228 / 90
p0 42.51 ± 2.35
pull
Entries 91
Mean 289.3
Std Dev 0

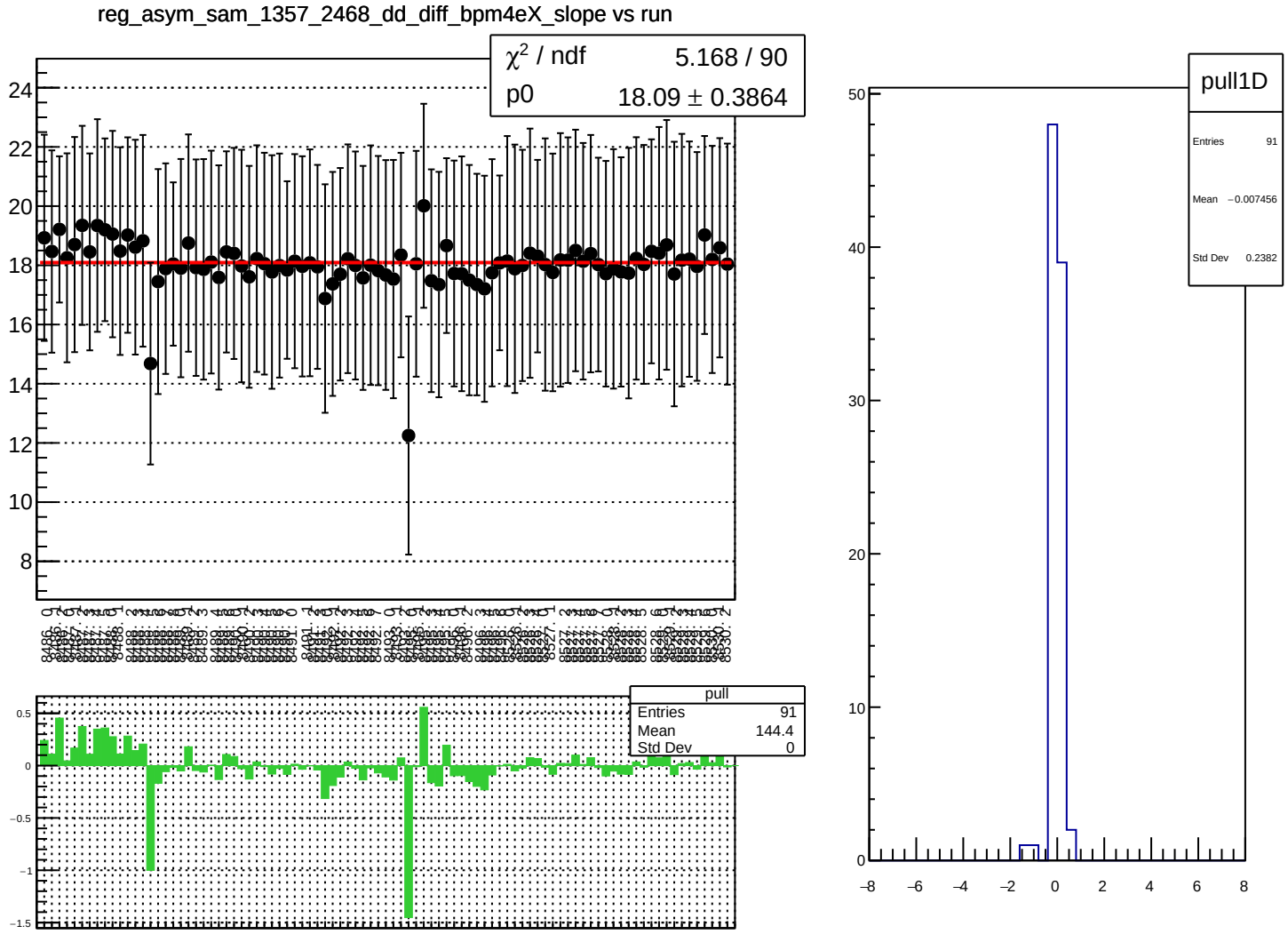

pull1D
Entries 91
Mean −0.004341
Std Dev 0.1883

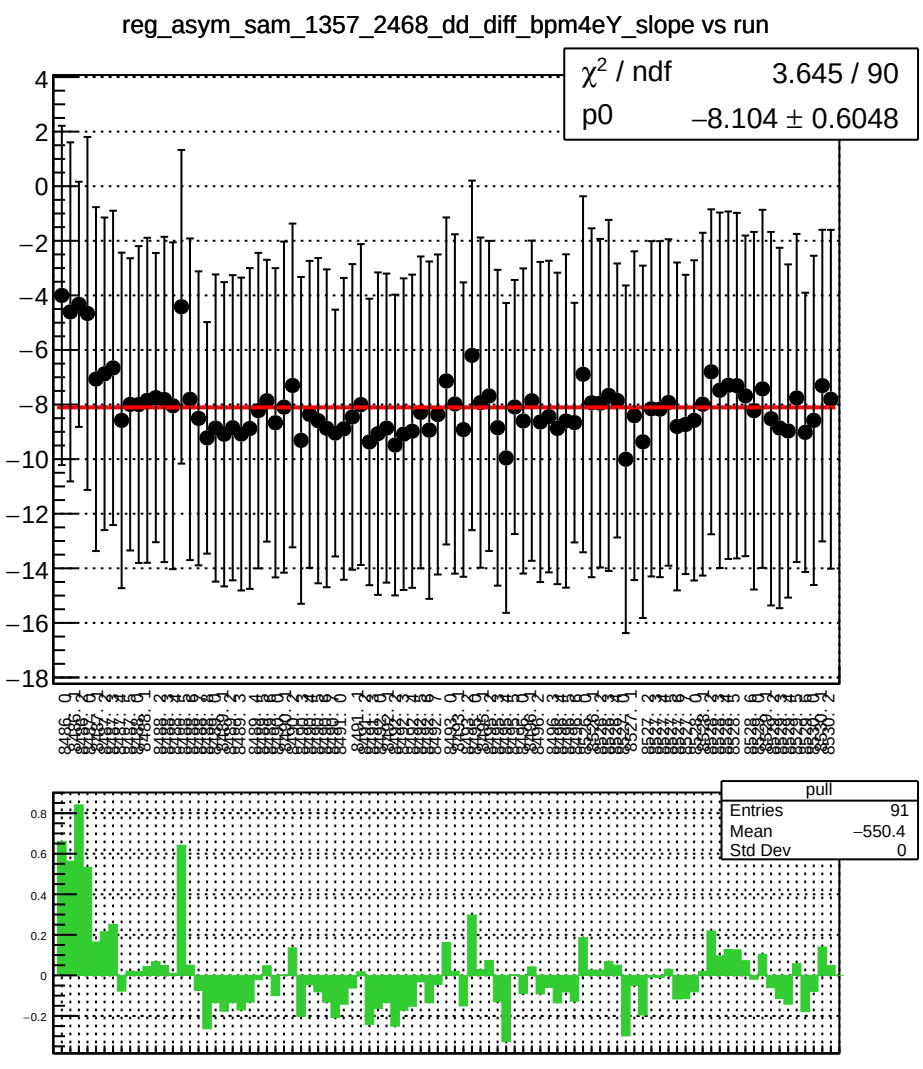

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 3.866 / 90
p0 2.012 ± 0.1407
pull
Entries 91
Mean 45.37
Std Dev 45.3
pull1D
Entries 91
Mean 0.007645
Std Dev 0.206

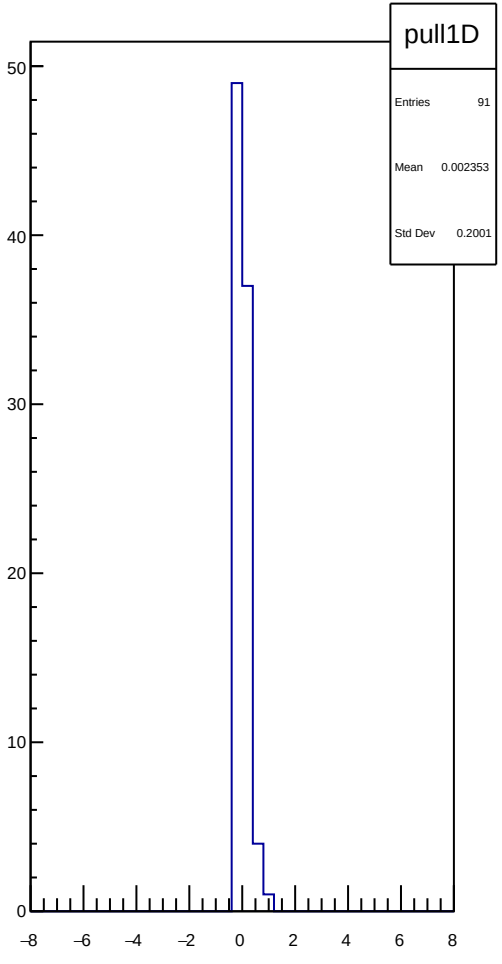

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 6.684 / 90
p0 1.496 ± 0.3546
pull
Entries 91
Mean 232.4
Std Dev 0
pull1D
Entries 91
Mean 0.01861
Std Dev 0.2704

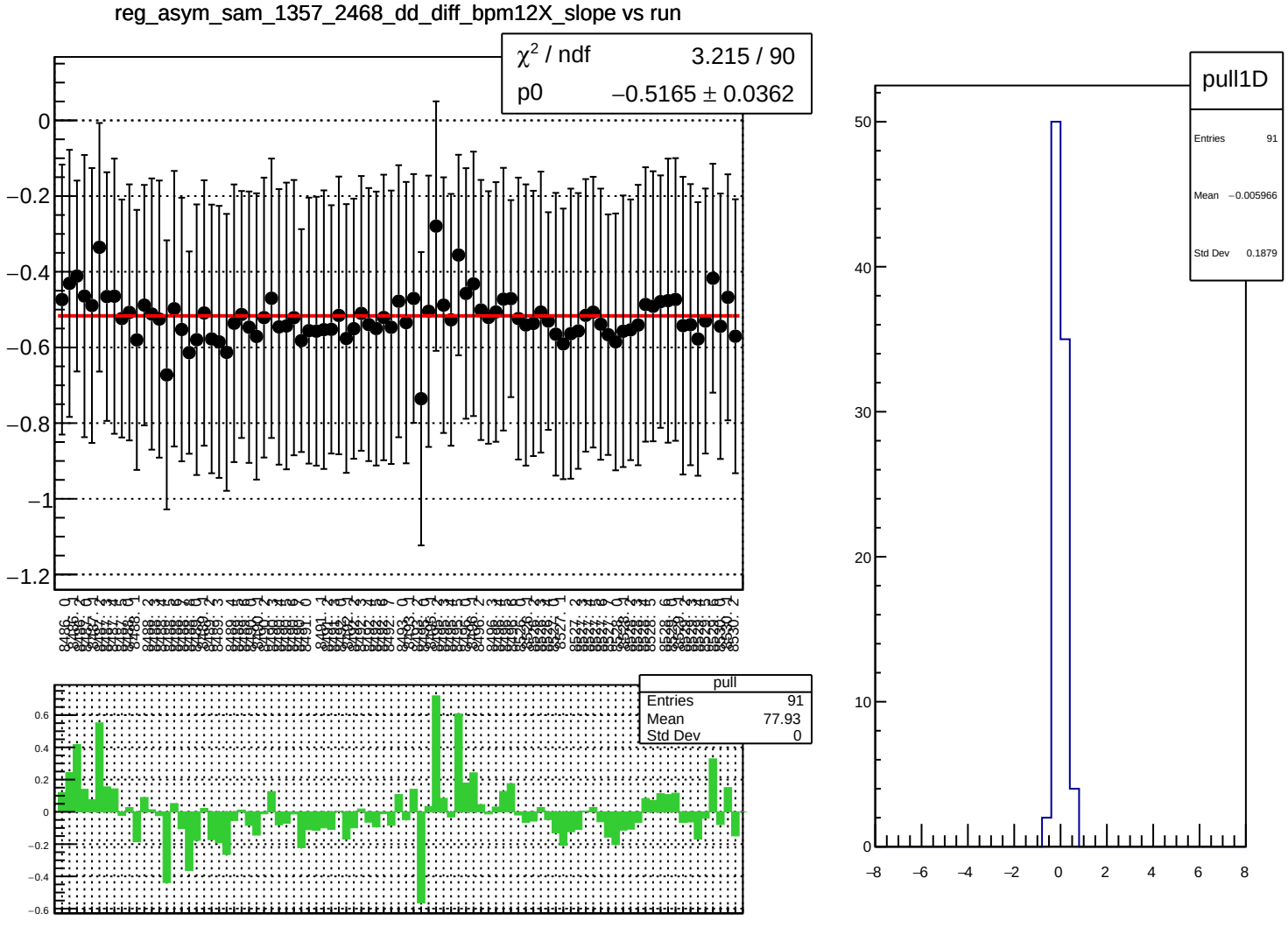

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.583 / 90
p0 4.068 ± 0.5713
pull
Entries 91
Mean −275.1
Std Dev 0

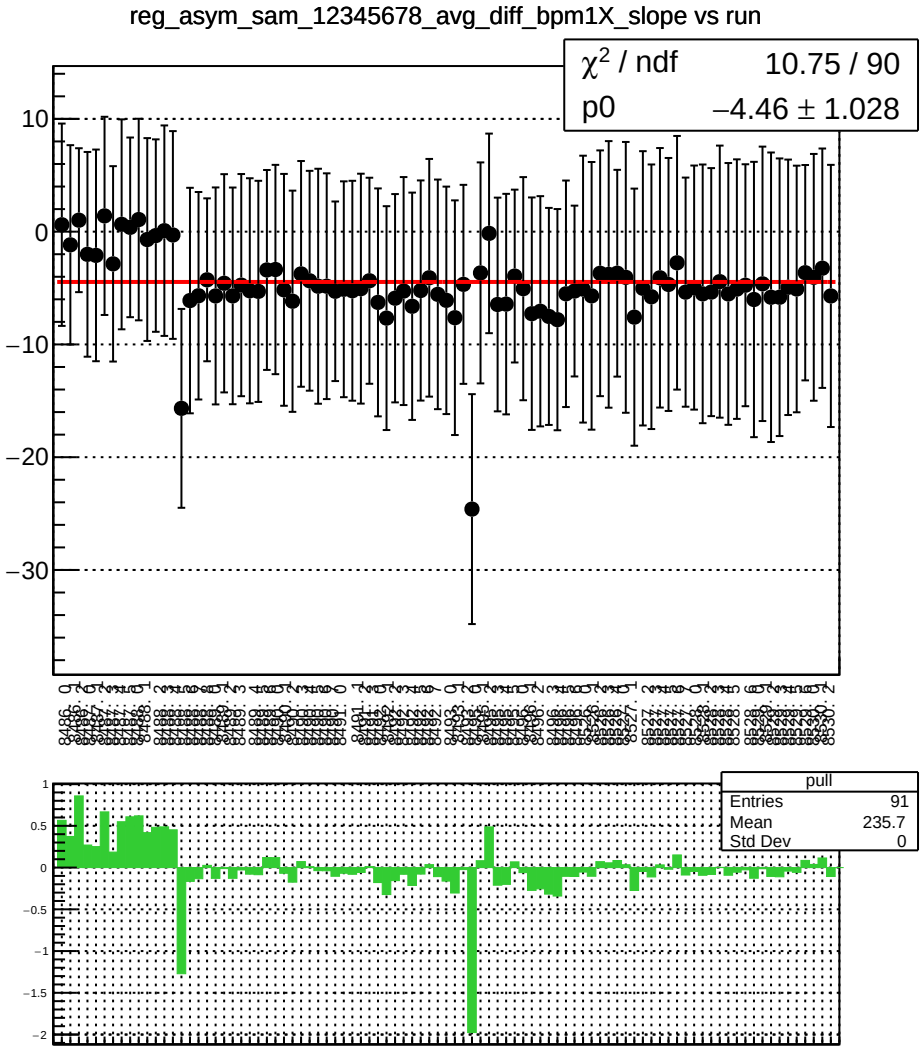

pull1D
Entries 91
Mean −0.003179
Std Dev 0.1984

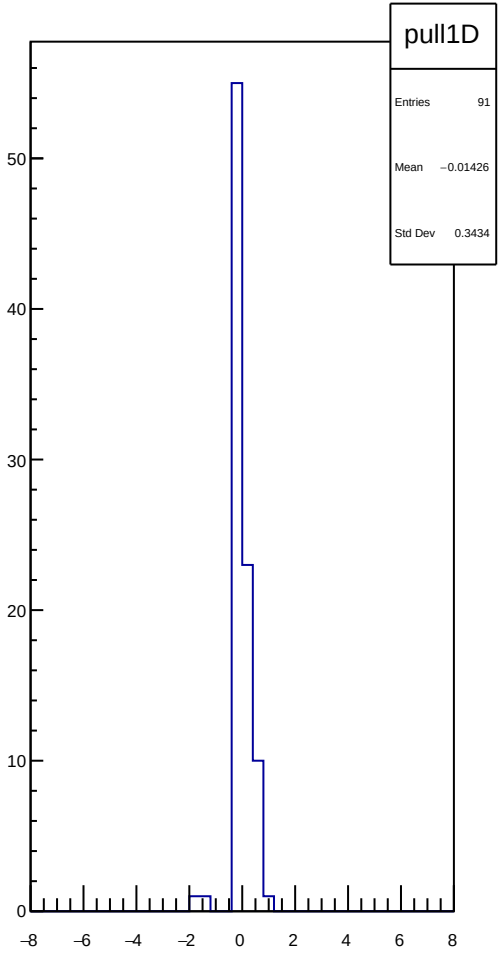

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.168 / 90
p0 18.09 ± 0.3864
pull
Entries 91
Mean 144.4
Std Dev 0
pull1D
Entries 91
Mean −0.007456
Std Dev 0.2382

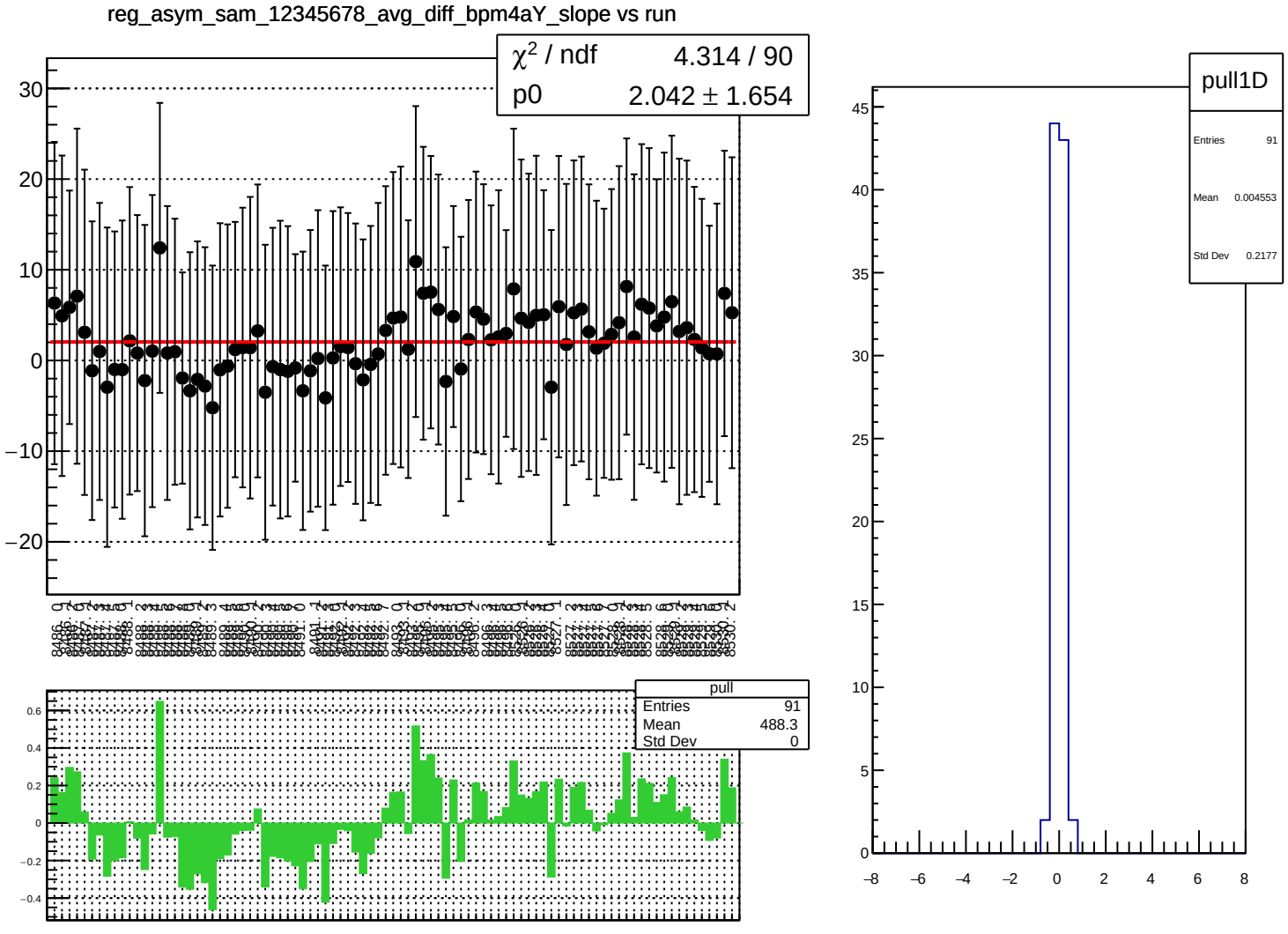

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.645 / 90
p0 −8.104 ± 0.6048
pull
Entries 91
Mean −550.4
Std Dev 0

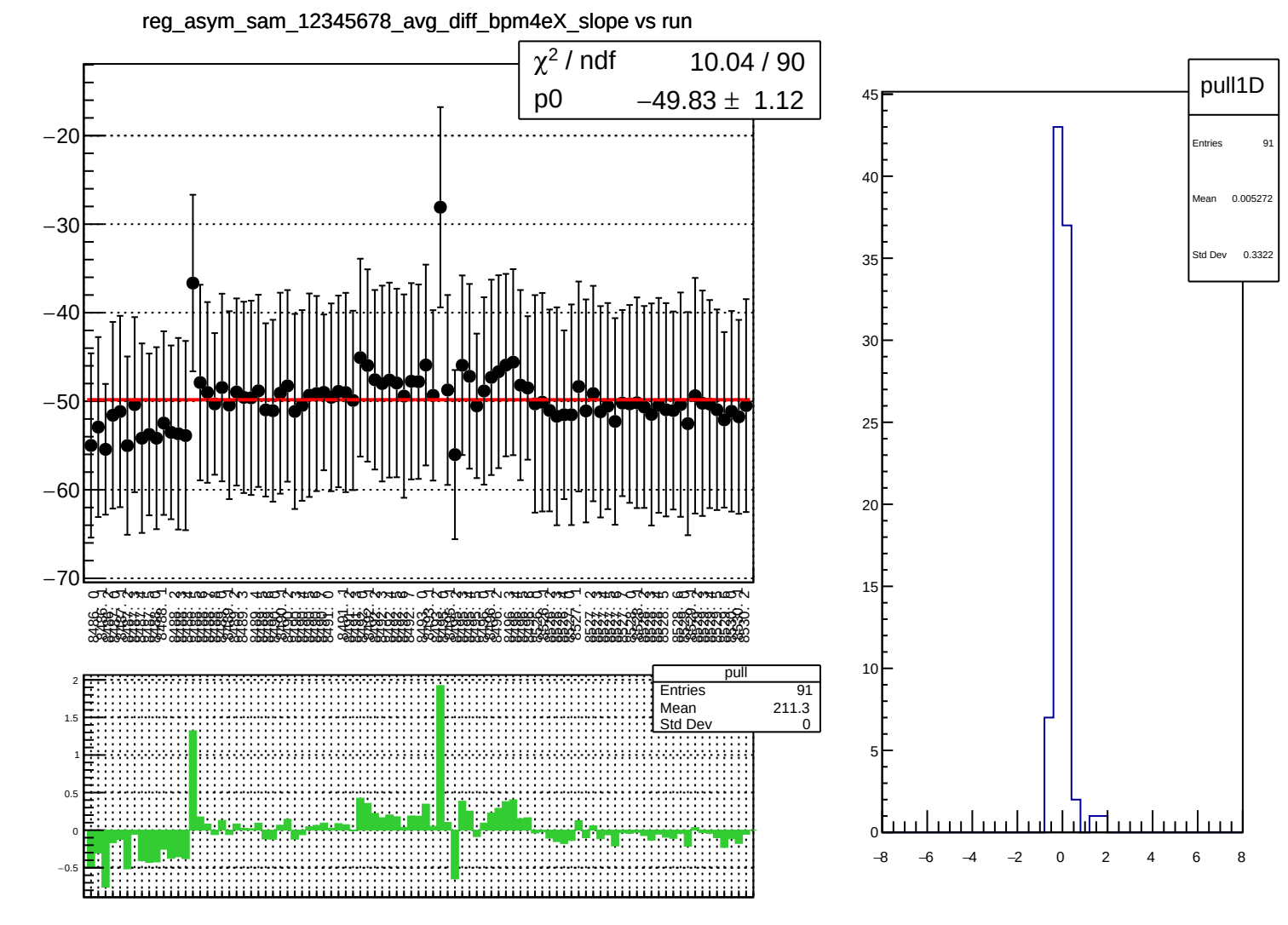

pull1D
Entries 91
Mean 0.002353
Std Dev 0.2001

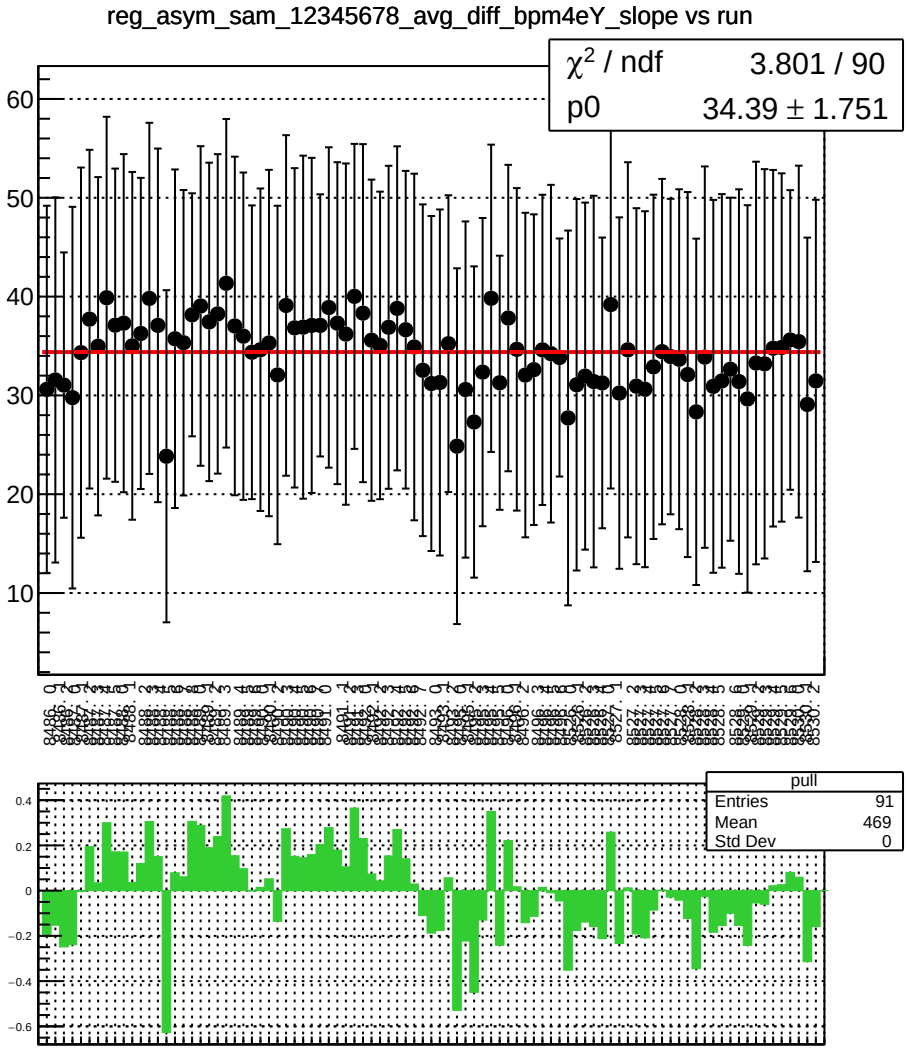

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 3.215 / 90
p0 −0.5165 ± 0.0362
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull
Entries 91
Mean 77.93
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 91
Mean −0.005966
Std Dev 0.1879
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

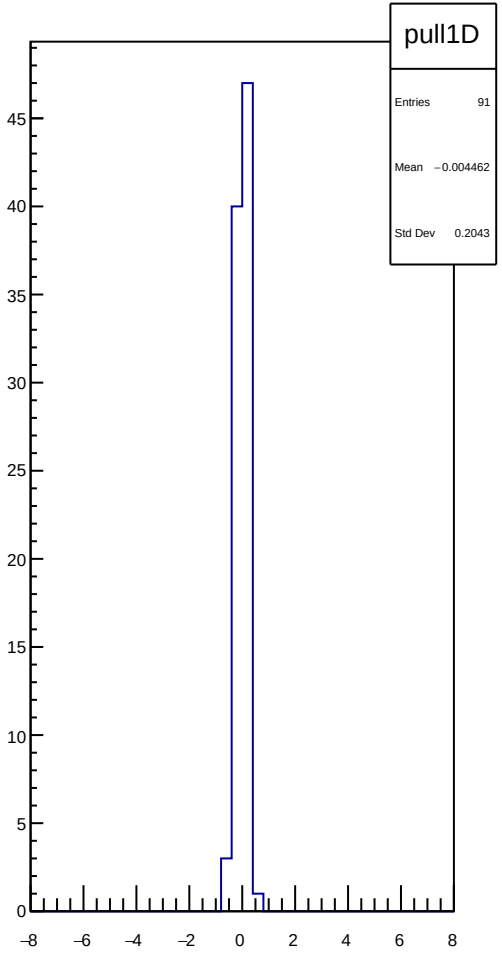

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 10.75 / 90
p0 −4.46 ± 1.028
pull
Entries 91
Mean 235.7
Std Dev 0

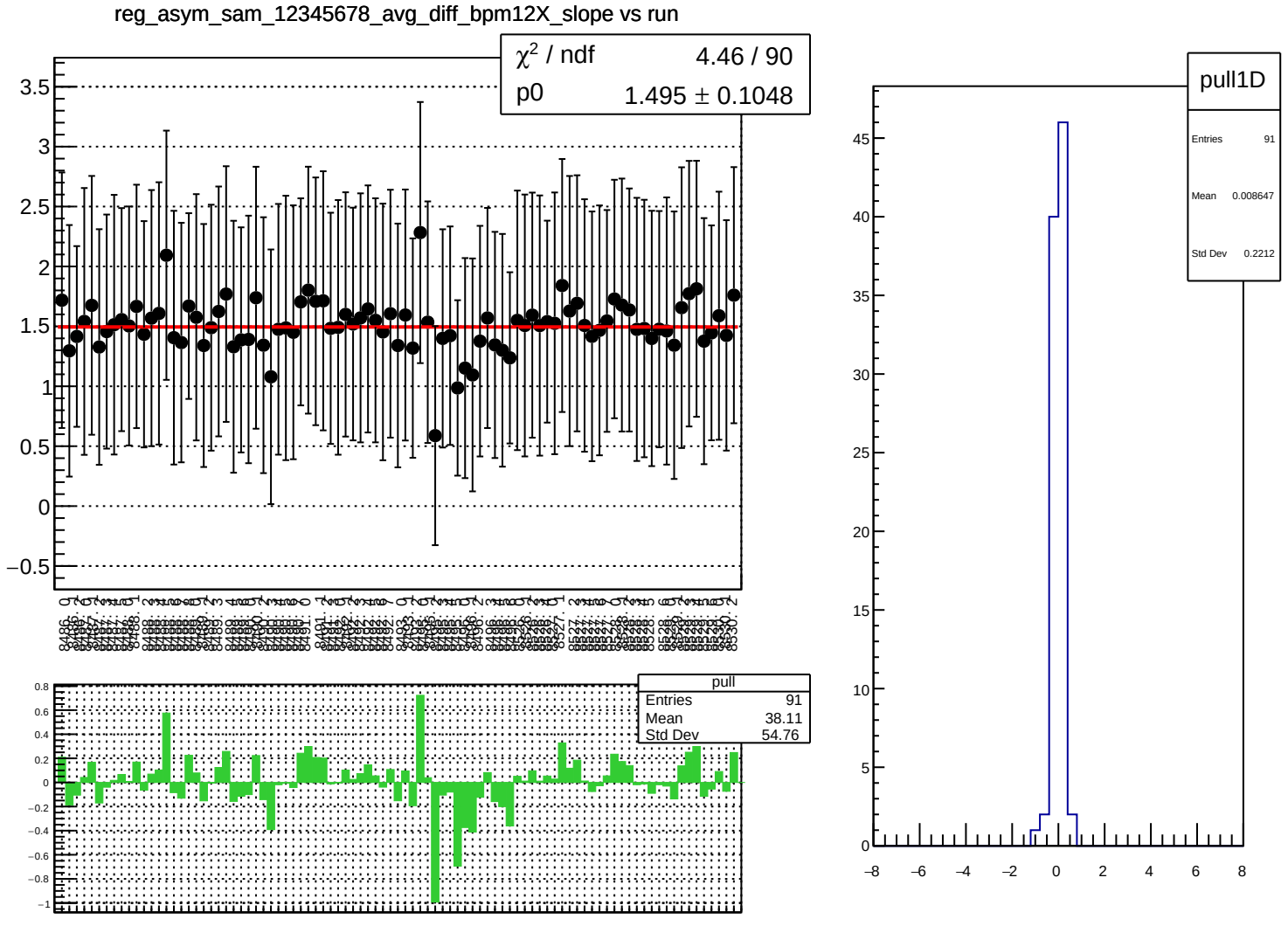

pull1D
Entries 91
Mean −0.01426
Std Dev 0.3434

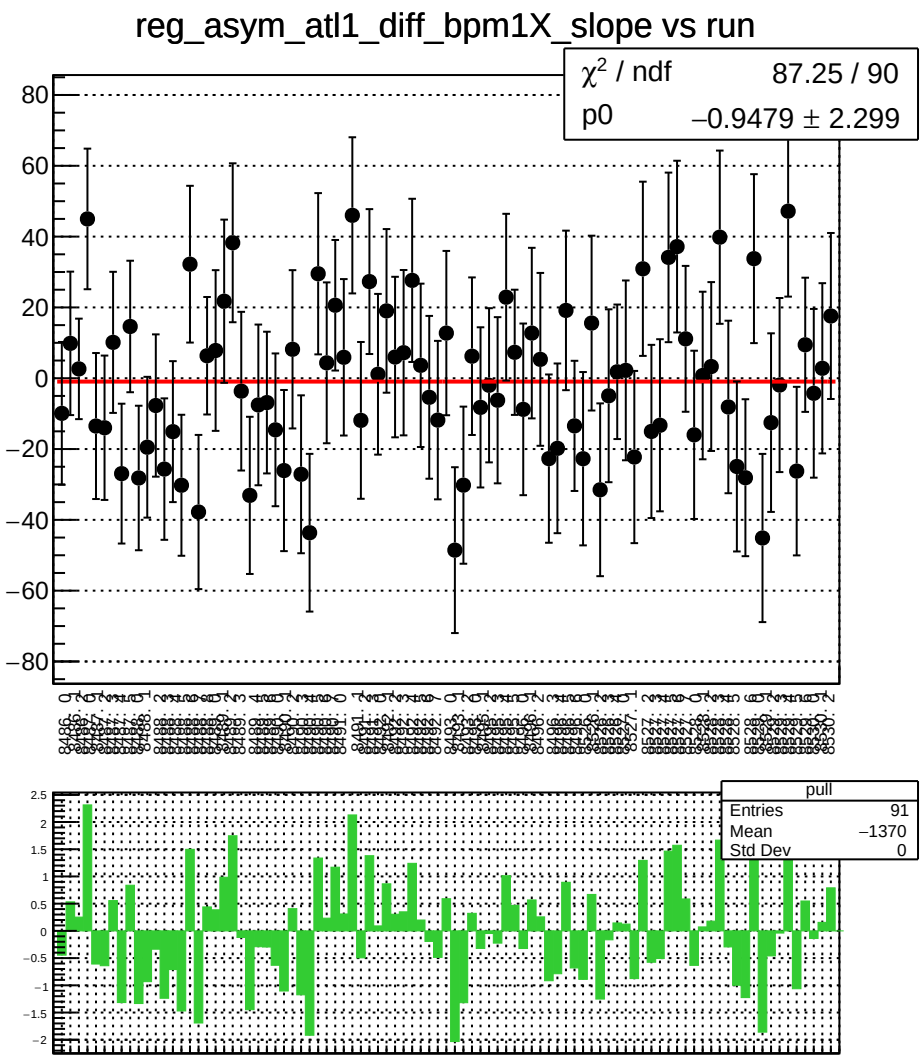

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.314 / 90
p0 2.042 ± 1.654
pull
Entries 91
Mean 488.3
Std Dev 0
pull1D
Entries 91
Mean 0.004553
Std Dev 0.2177

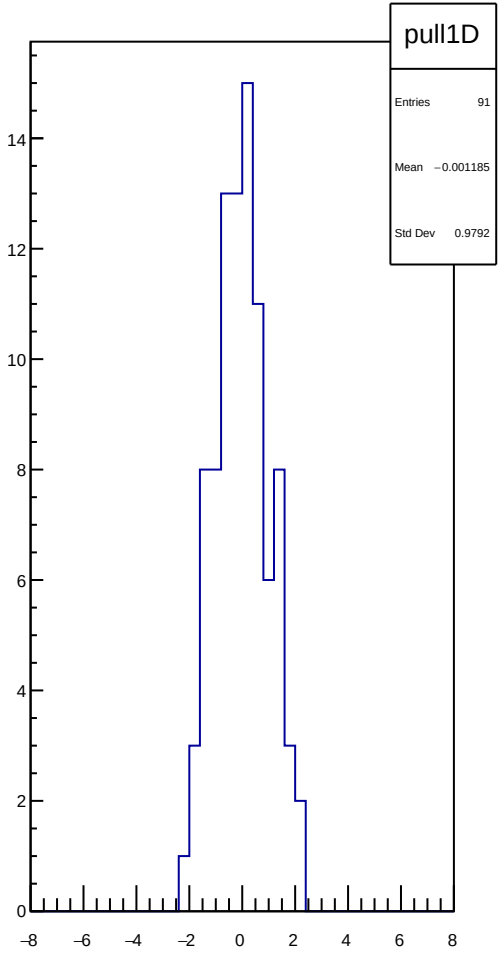

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.04 / 90
p0 −49.83 ± 1.12
pull
Entries 91
Mean 211.3
Std Dev 0
pull1D
Entries 91
Mean 0.005272
Std Dev 0.3322

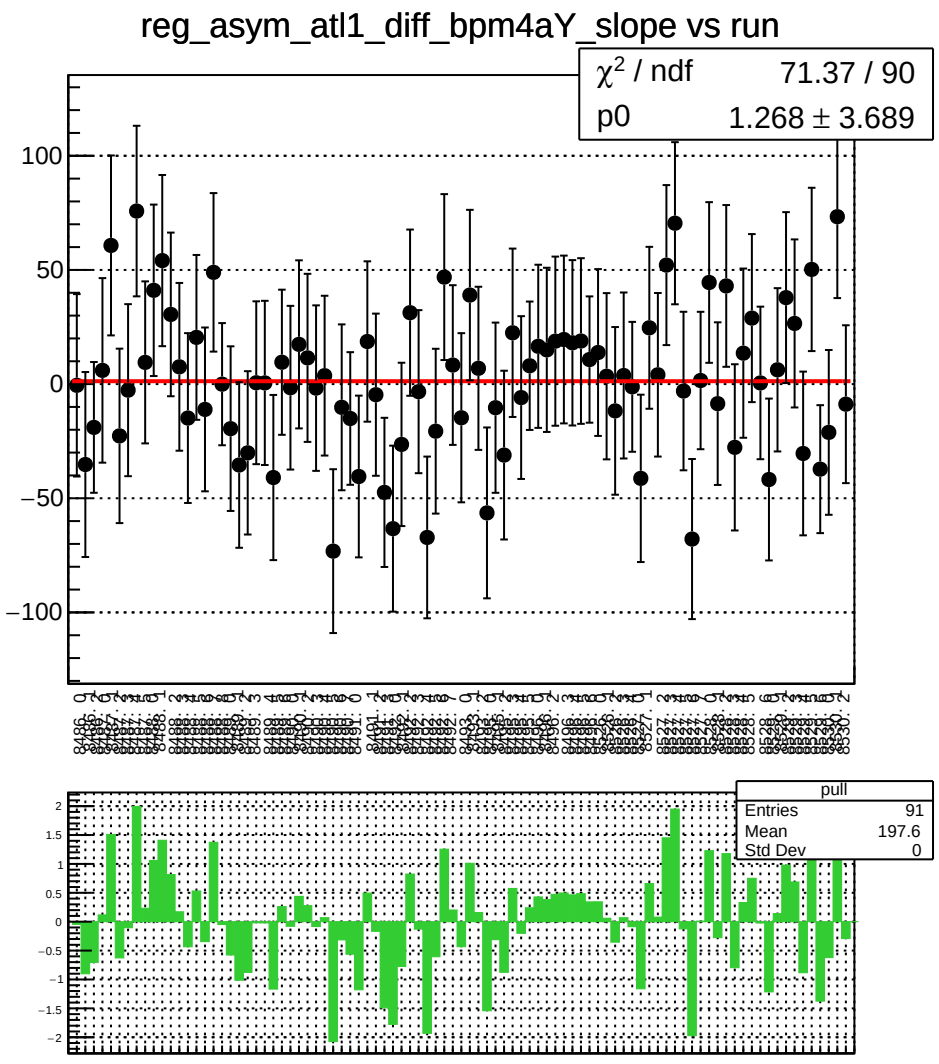

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.801 / 90
p0 34.39 ± 1.751
pull
Entries 91
Mean 469
Std Dev 0

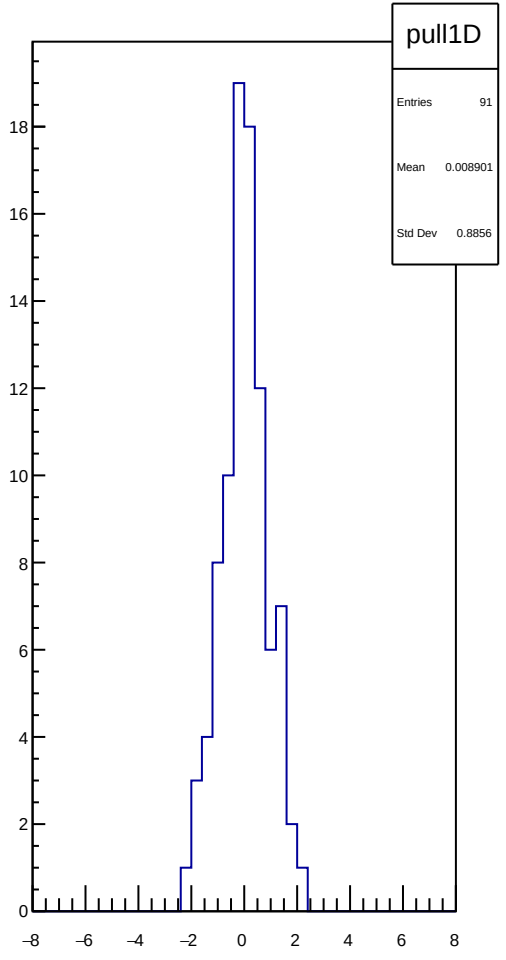

pull1D
Entries 91
Mean −0.004462
Std Dev 0.2043

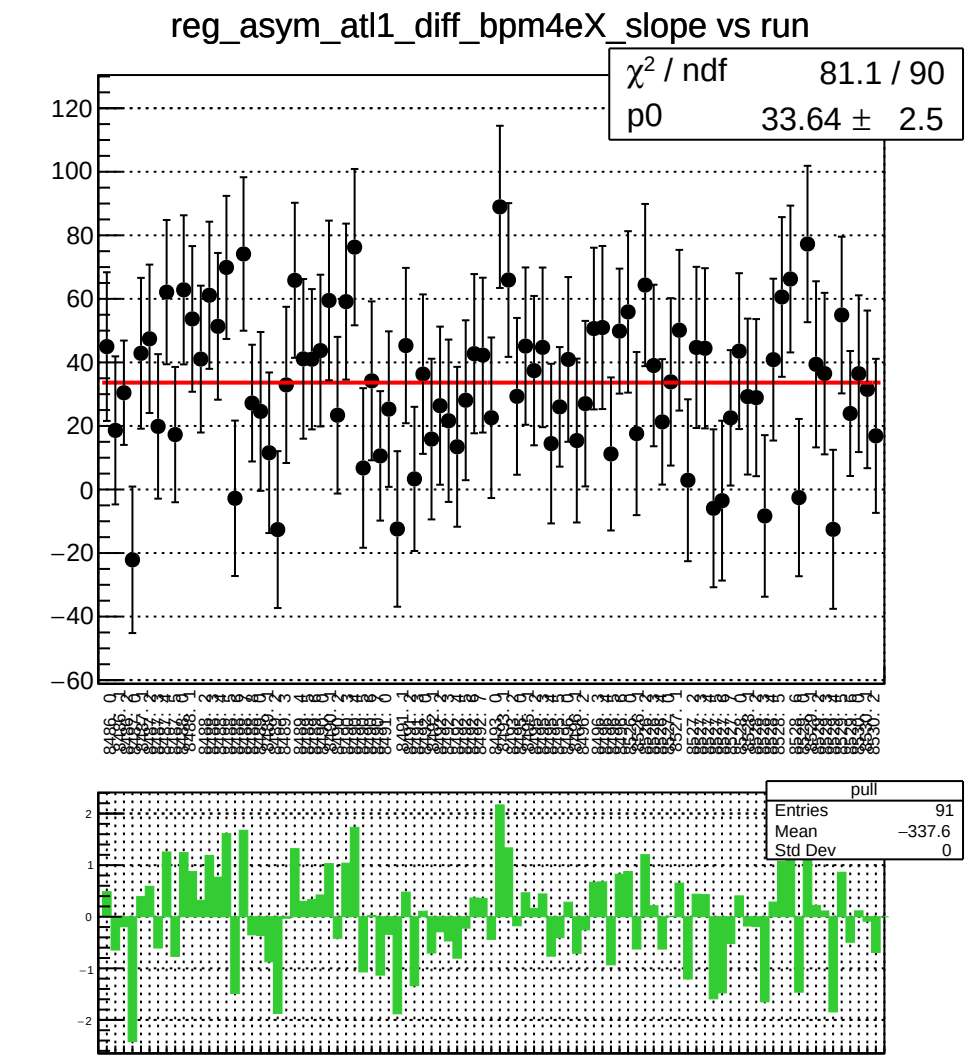

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 4.46 / 90
p0 1.495 ± 0.1048
pull
Entries 91
Mean 38.11
Std Dev 54.76
pull1D
Entries 91
Mean 0.008647
Std Dev 0.2212

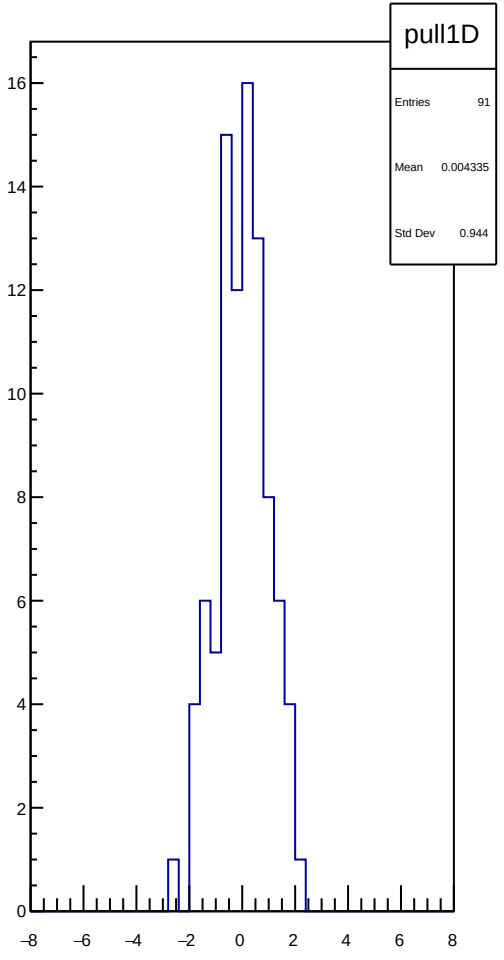

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 87.25 / 90
p0 −0.9479 ± 2.299
pull
Entries 91
Mean −1370
Std Dev 0

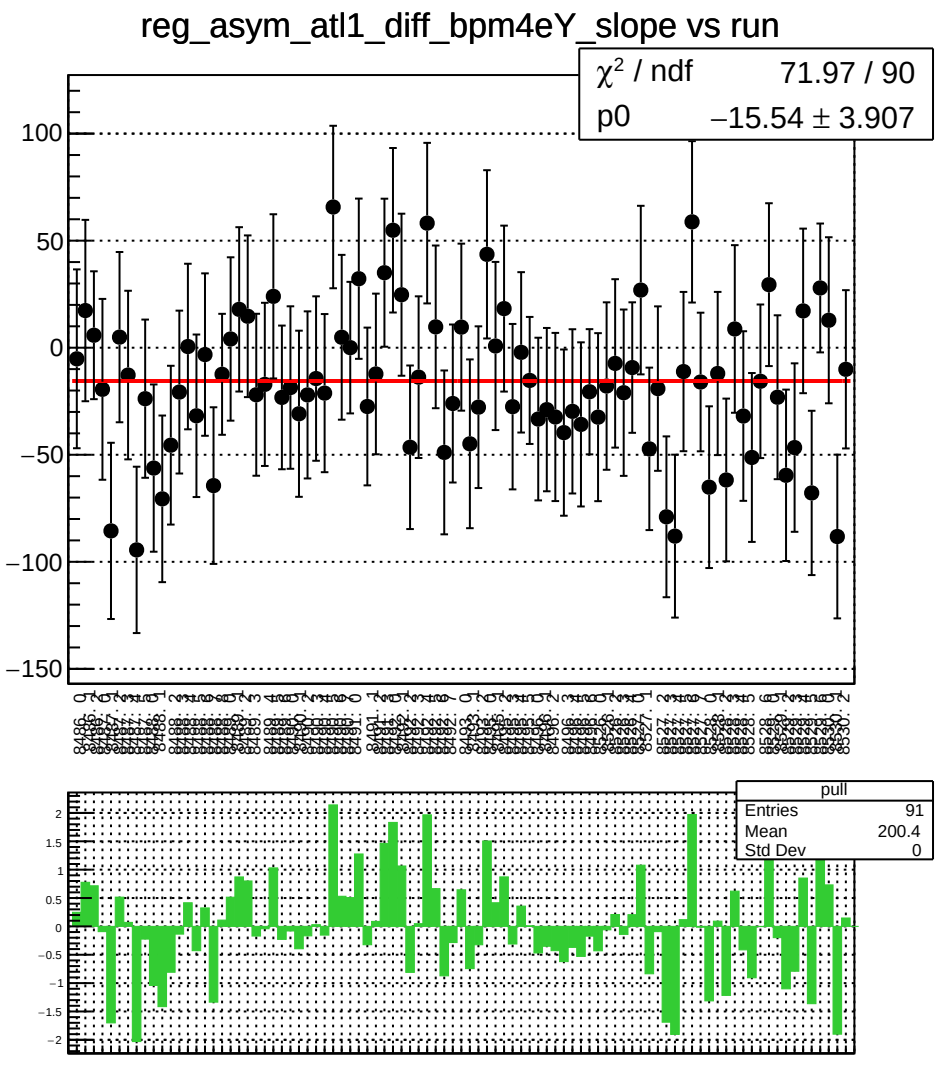

pull1D
Entries 91
Mean −0.001185
Std Dev 0.9792

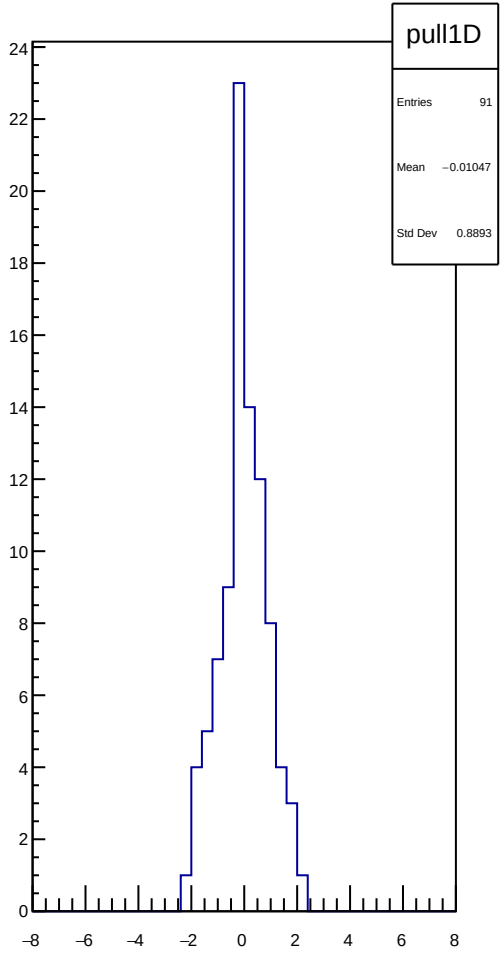

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 71.37 / 90
p0 1.268 ± 3.689
100
50
0
−50
−100
pull
Entries 91
Mean 197.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

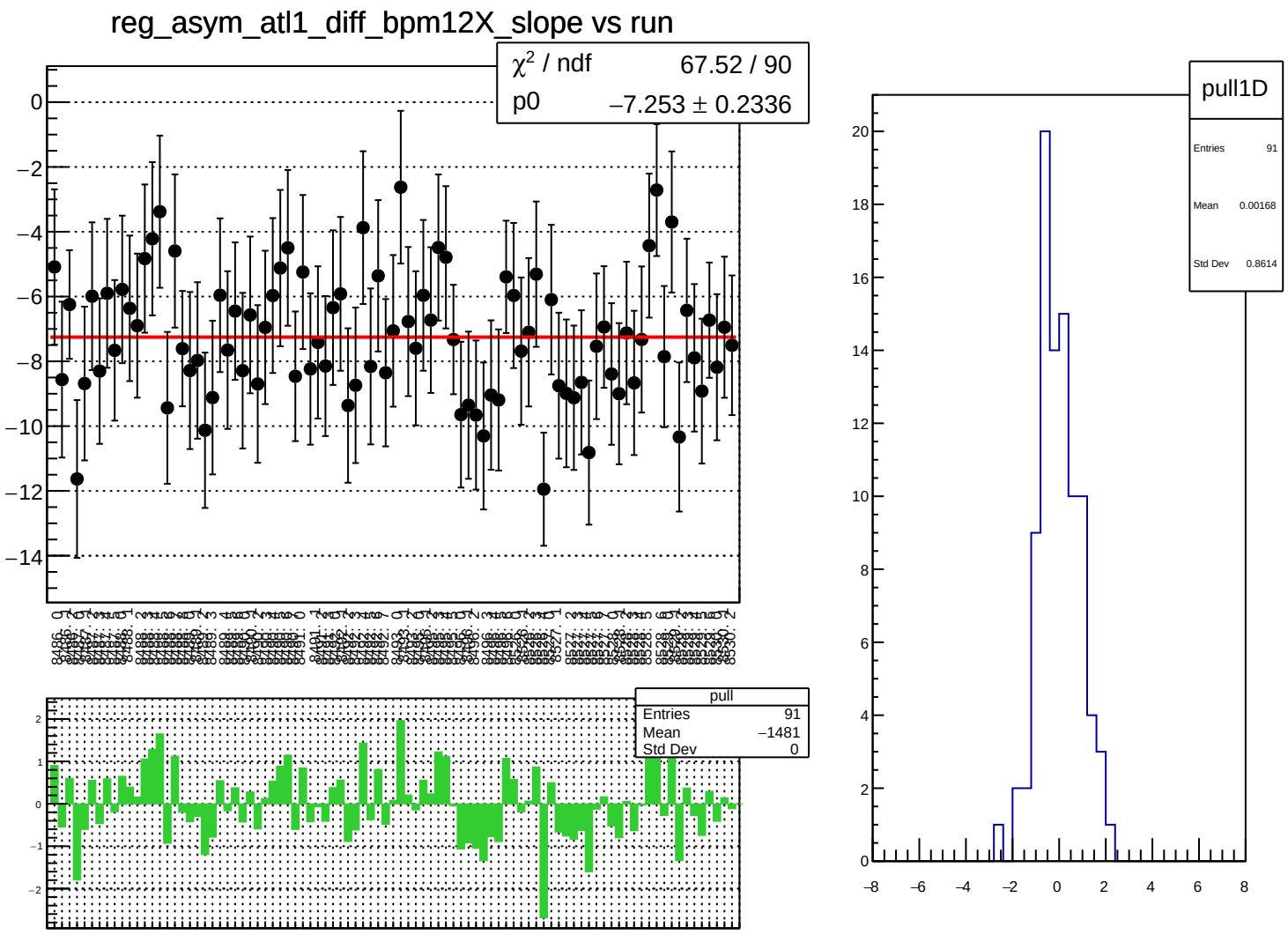

pull1D
Entries 91
Mean 0.008901
Std Dev 0.8856
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

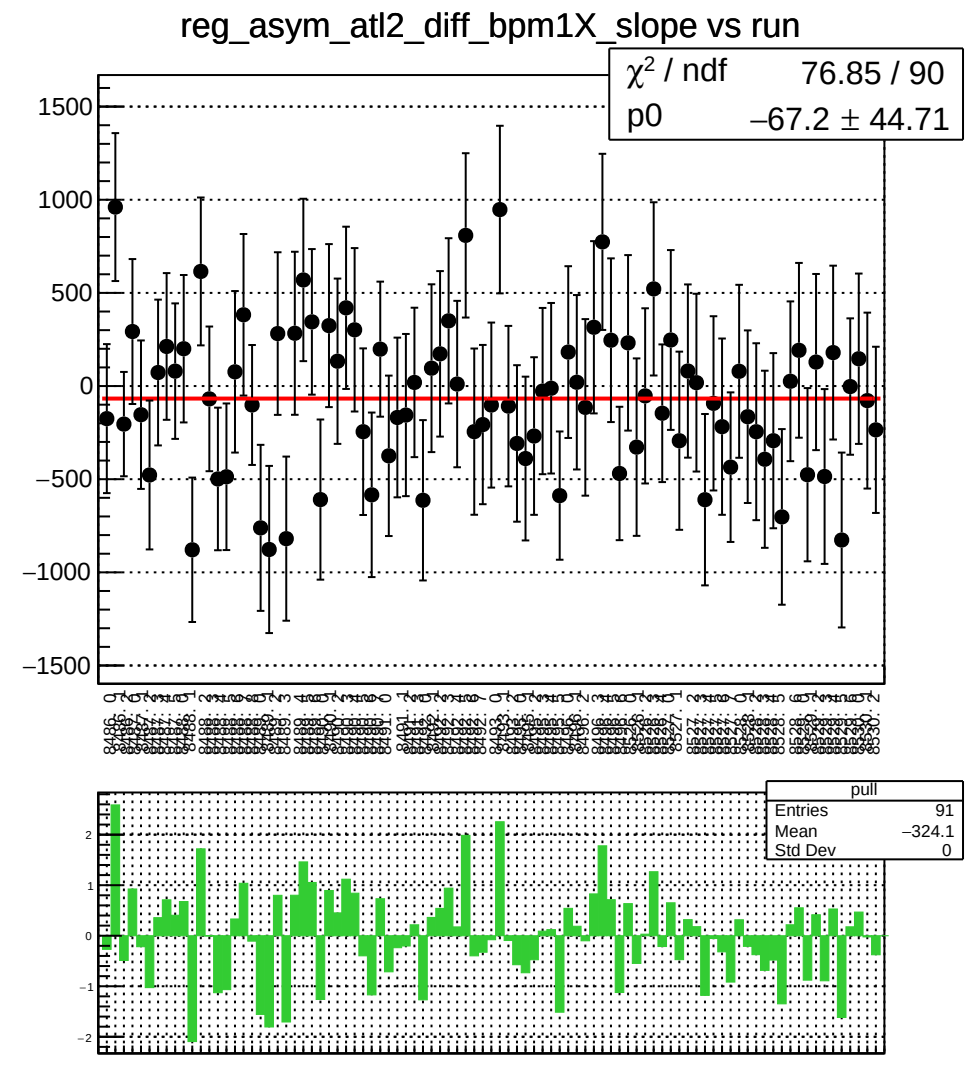

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 81.1 / 90
p0 33.64 ± 2.5
pull
Entries 91
Mean −337.6
Std Dev 0

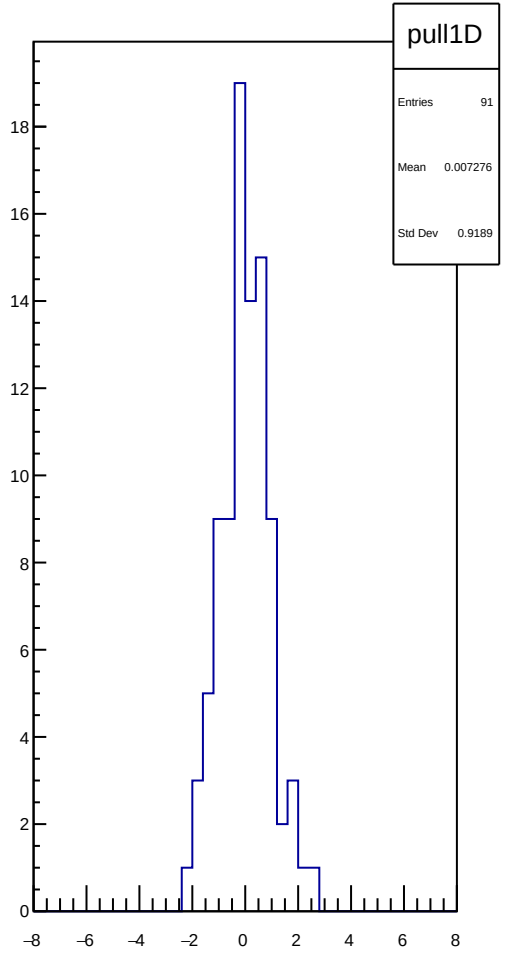

pull1D
Entries 91
Mean 0.004335
Std Dev 0.944

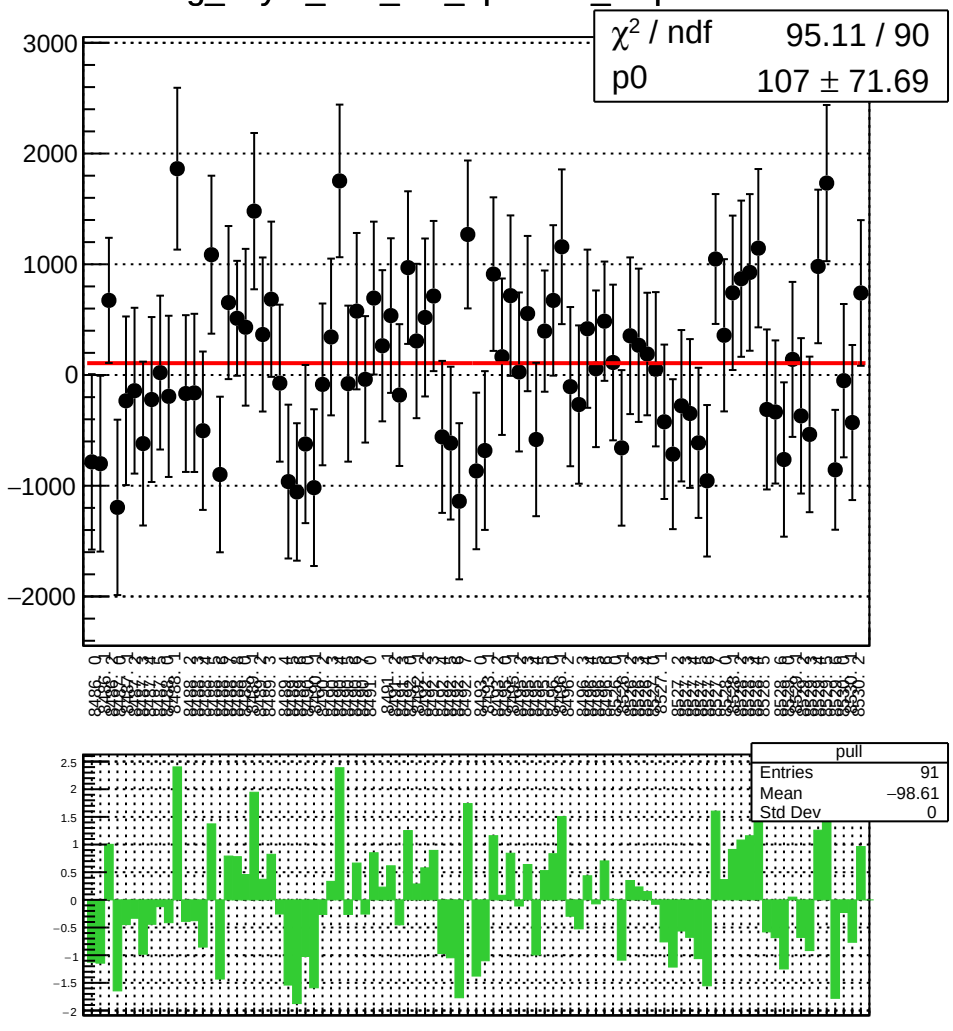

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 71.97 / 90
p0 −15.54 ± 3.907
100
50
0
−50
−100
−150
pull
Entries 91
Mean 200.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

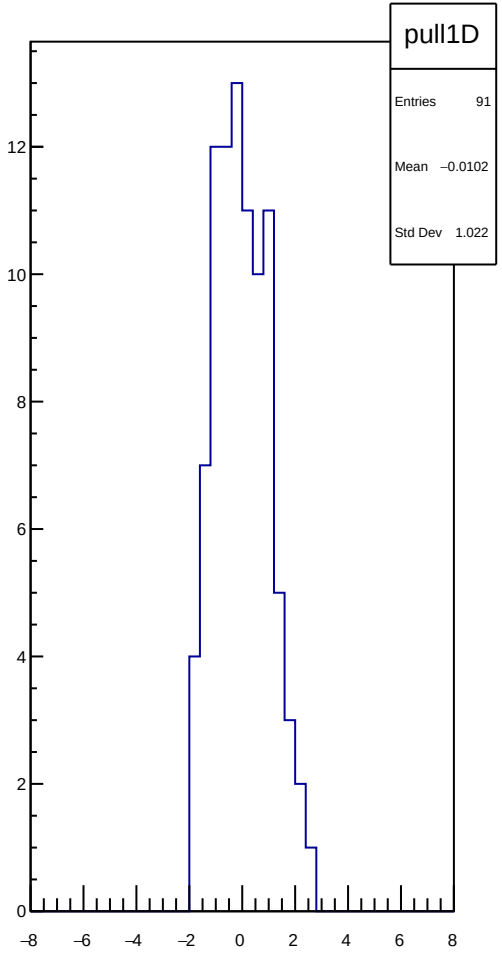

pull1D
Entries 91
Mean −0.01047
Std Dev 0.8893
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

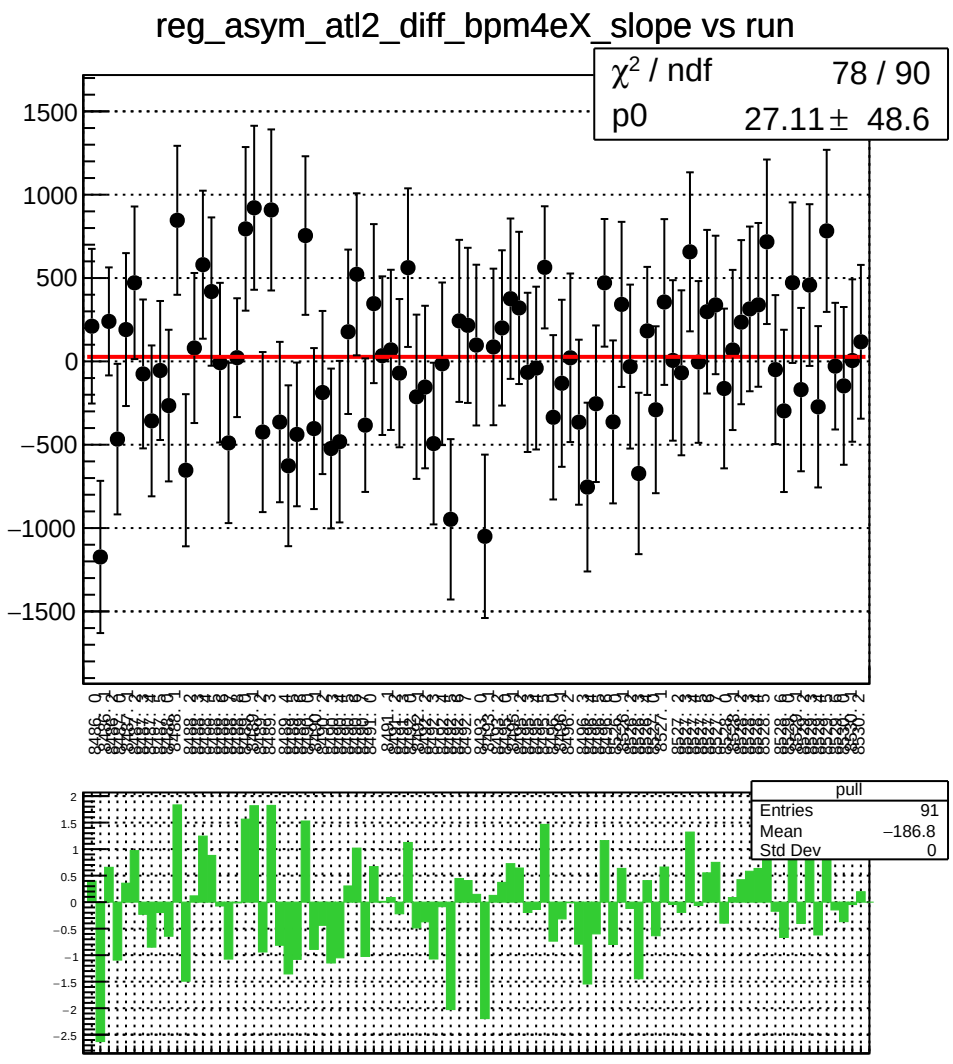

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 67.52 / 90
p0 −7.253 ± 0.2336
pull
Entries 91
Mean −1481
Std Dev 0
pull1D
Entries 91
Mean 0.00168
Std Dev 0.8614

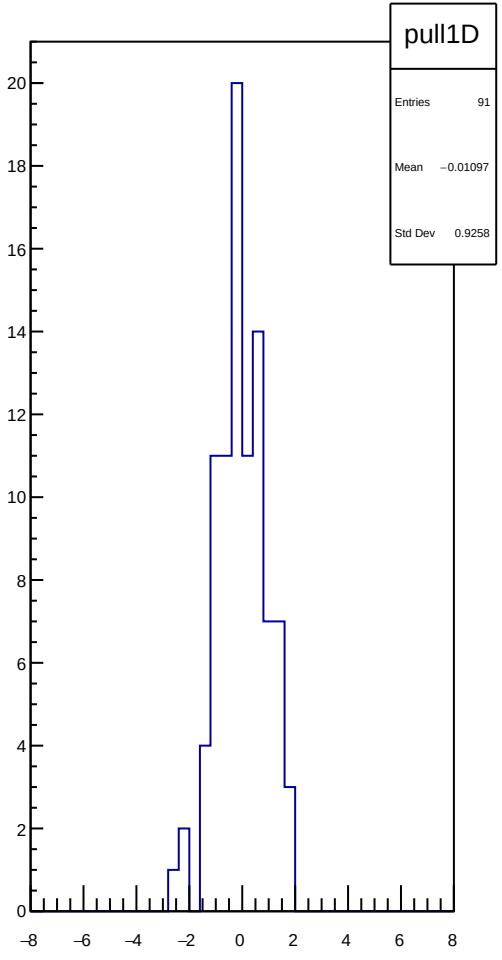

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 76.85 / 90
p0 −67.2 ± 44.71
1500
1000
500
0
−500
−1000
−1500
pull
Entries 91
Mean −324.1
Std Dev 0
2
1
0
−1
−2

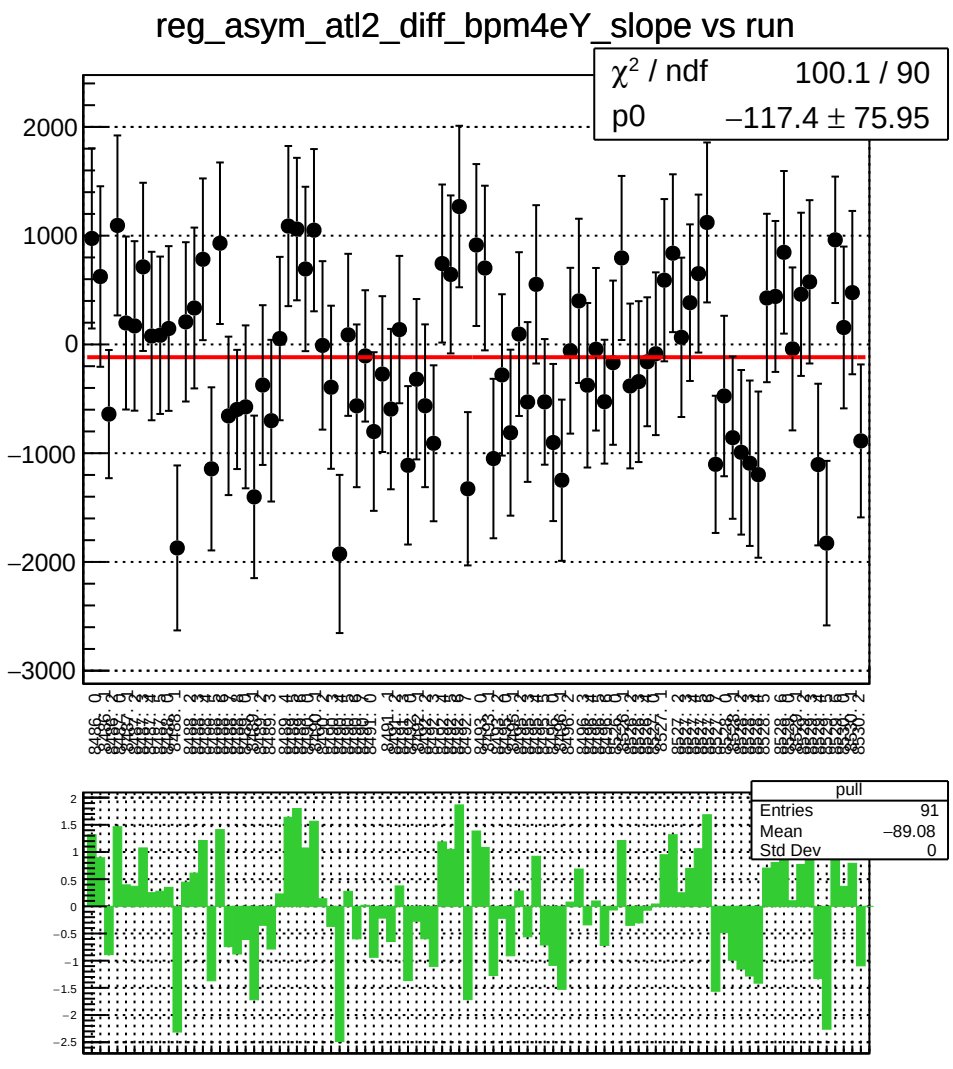

pull1D
Entries 91
Mean 0.007276
Std Dev 0.9189
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

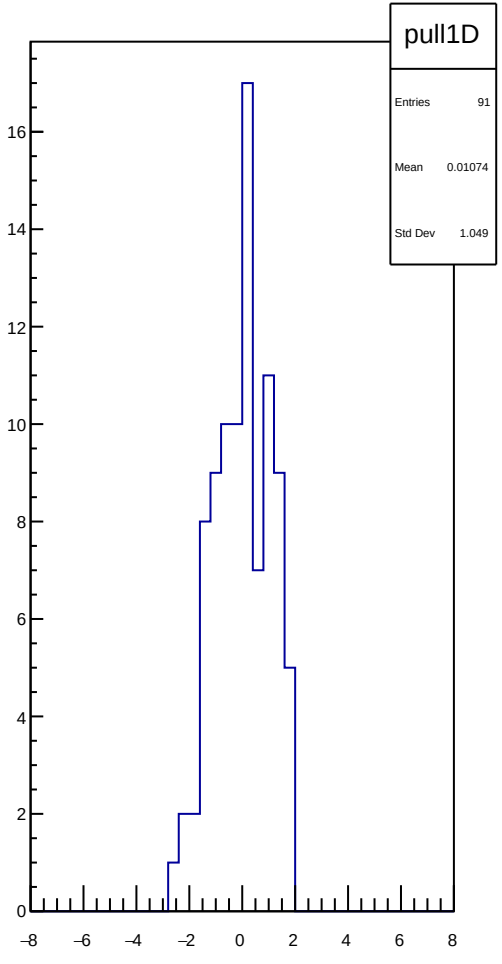

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 95.11 / 90
p0 107 ± 71.69
pull
Entries 91
Mean −98.61
Std Dev 0

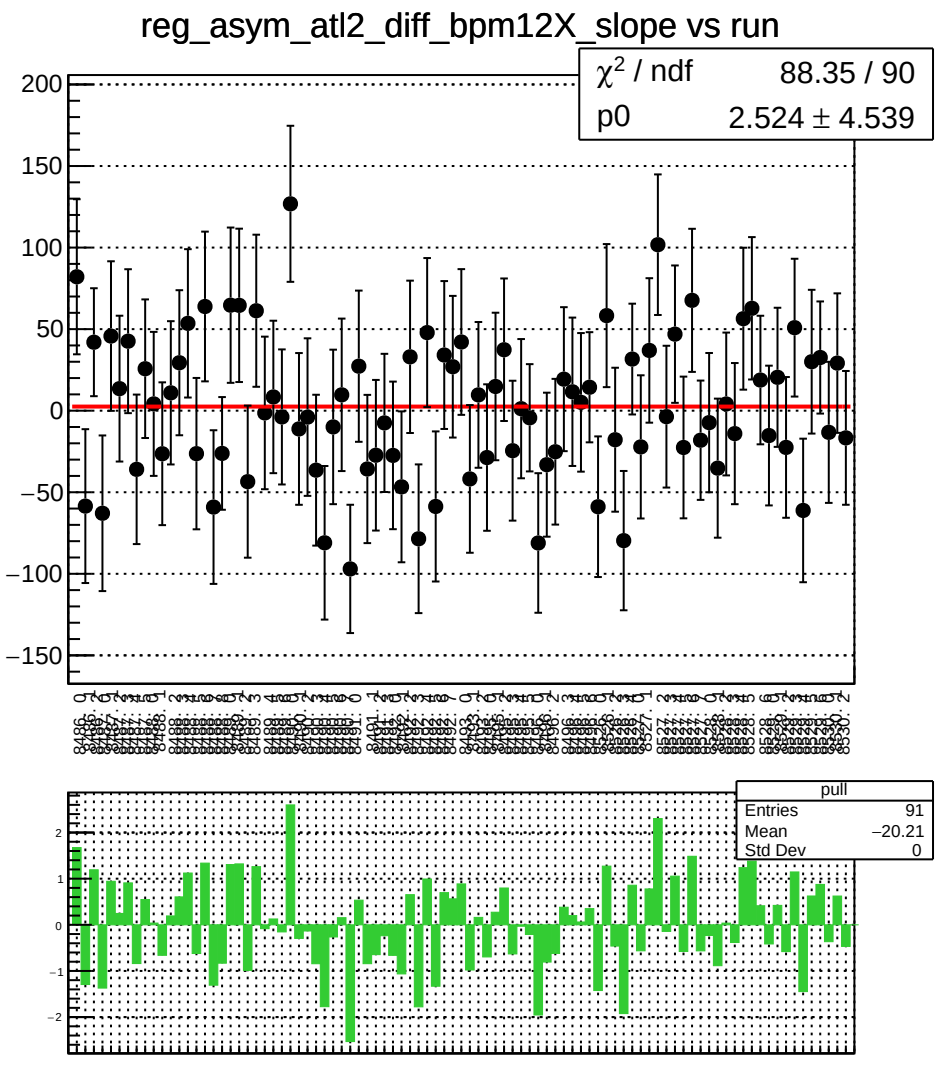

pull1D
Entries 91
Mean −0.0102
Std Dev 1.022

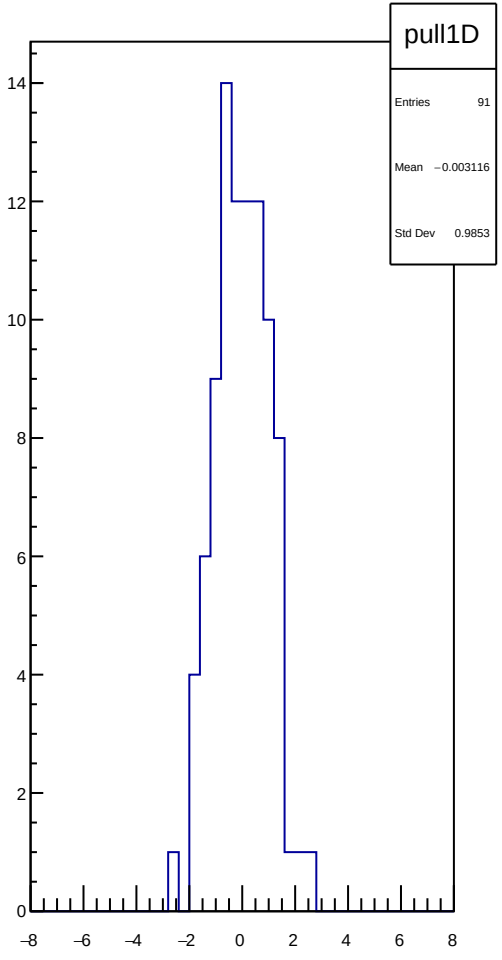

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 78 / 90
p0 27.11 ± 48.6
pull
Entries 91
Mean −186.8
Std Dev 0

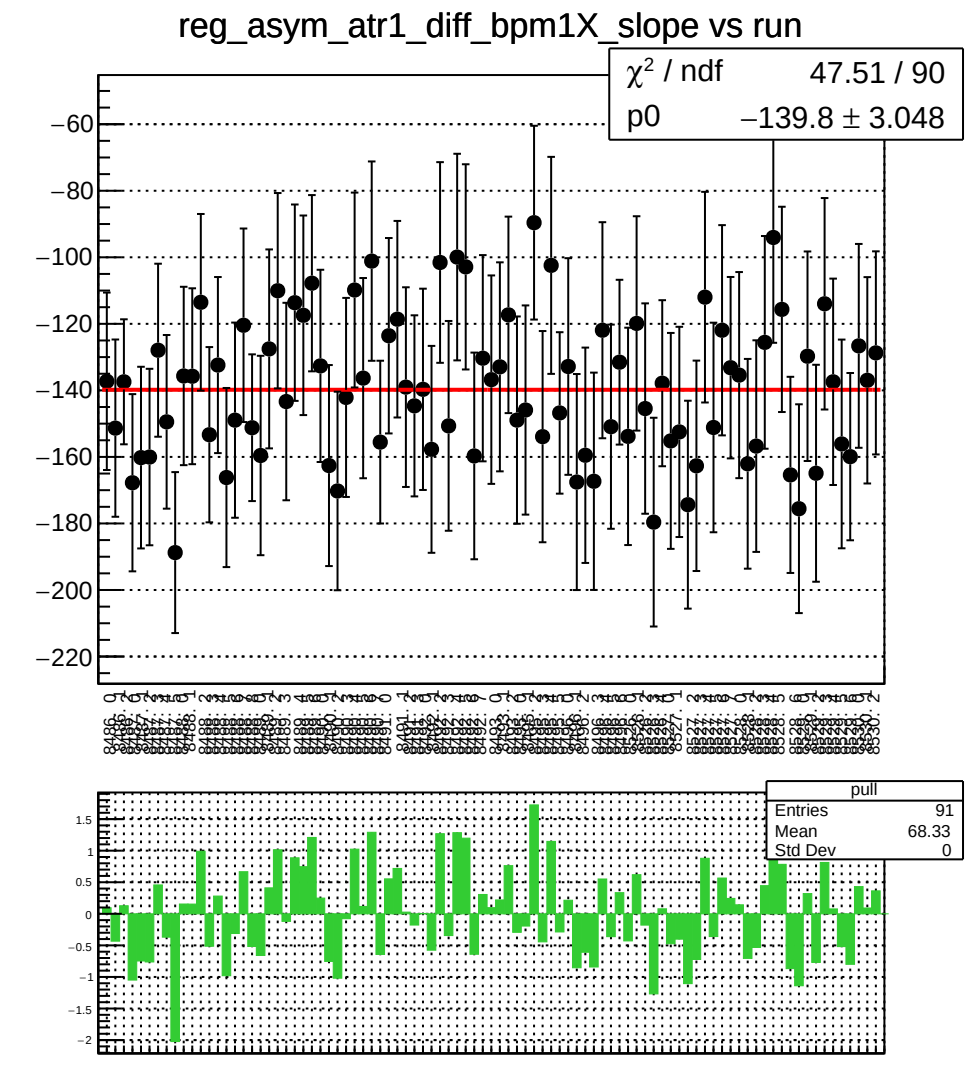

pull1D
Entries 91
Mean −0.01097
Std Dev 0.9258

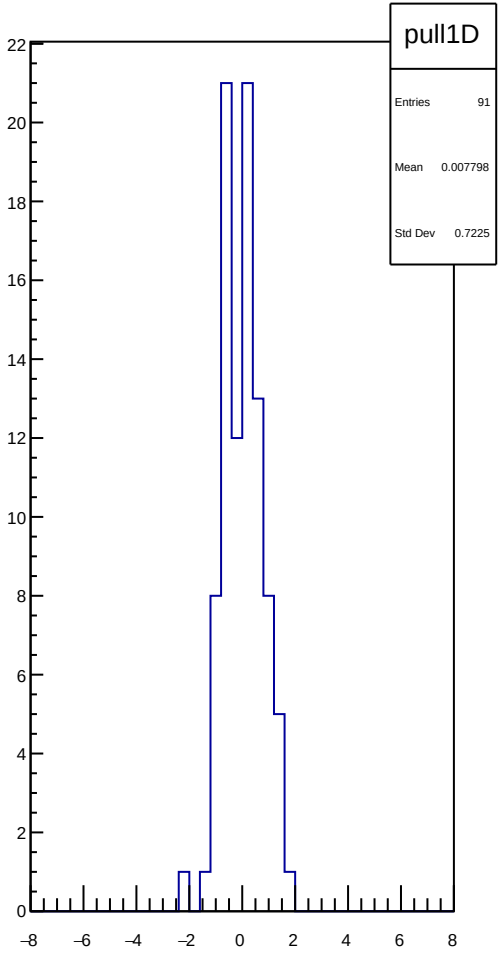

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 100.1 / 90
p0 −117.4 ± 75.95
pull
Entries 91
Mean −89.08
Std Dev 0

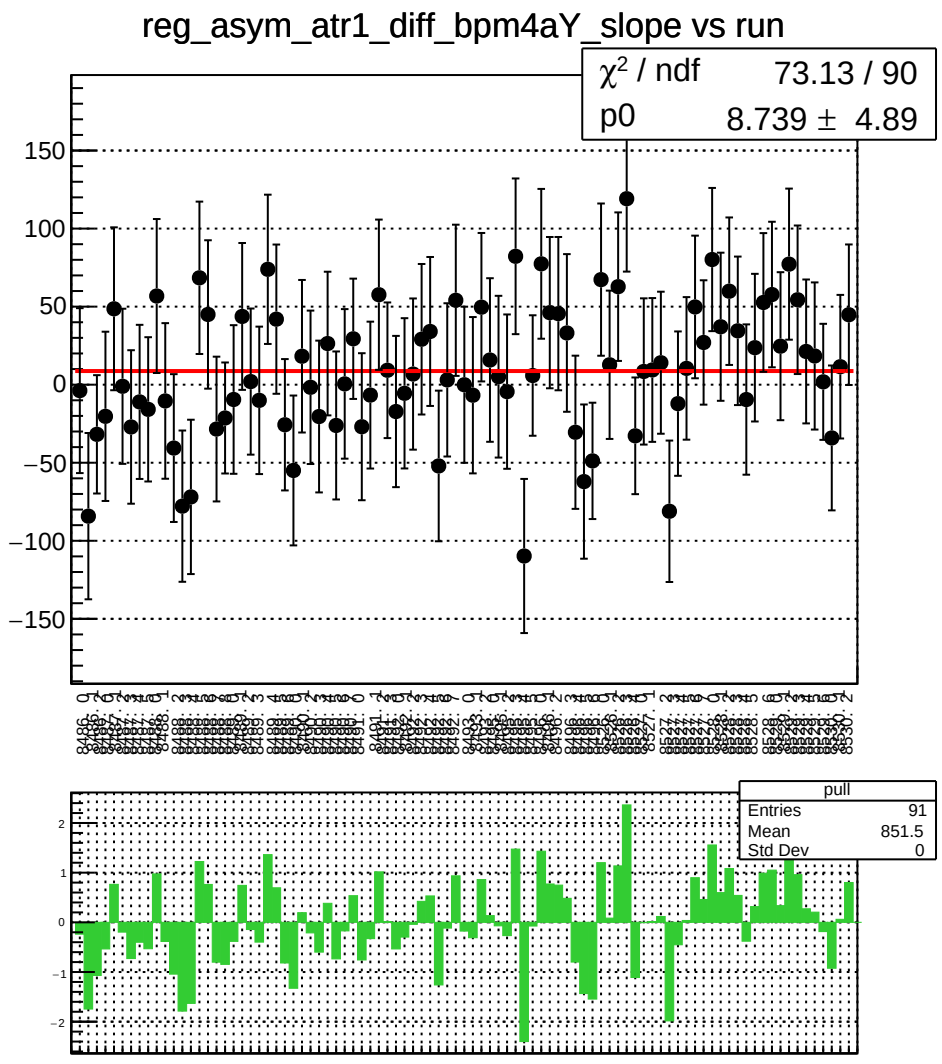

pull1D
Entries 91
Mean 0.01074
Std Dev 1.049

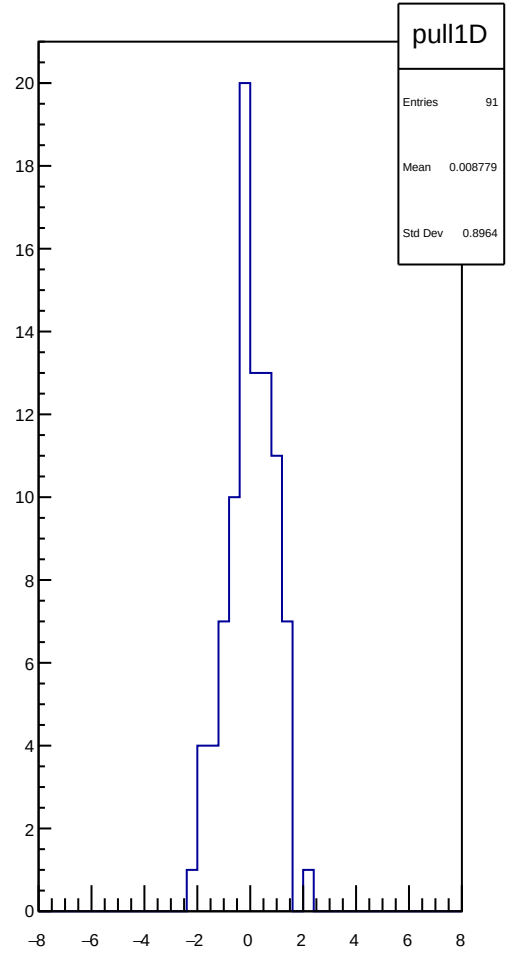

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 88.35 / 90
p0 2.524 ± 4.539
pull
Entries 91
Mean −20.21
Std Dev 0

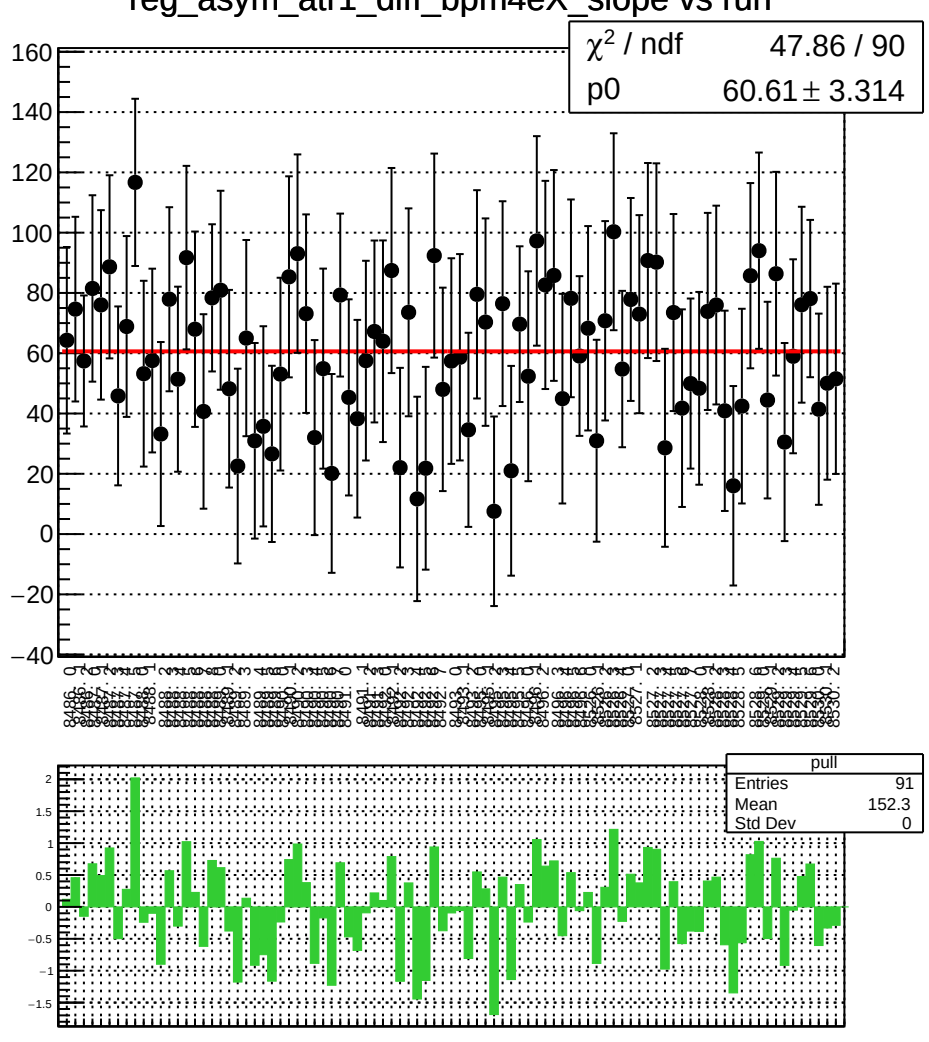

pull1D
Entries 91
Mean −0.003116
Std Dev 0.9853

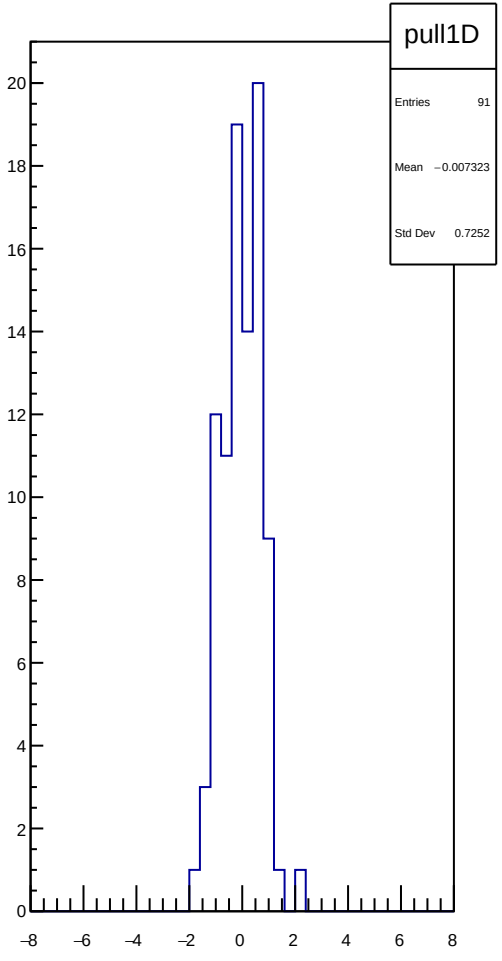

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 47.51 / 90
p0 −139.8 ± 3.048
pull
Entries 91
Mean 68.33
Std Dev 0

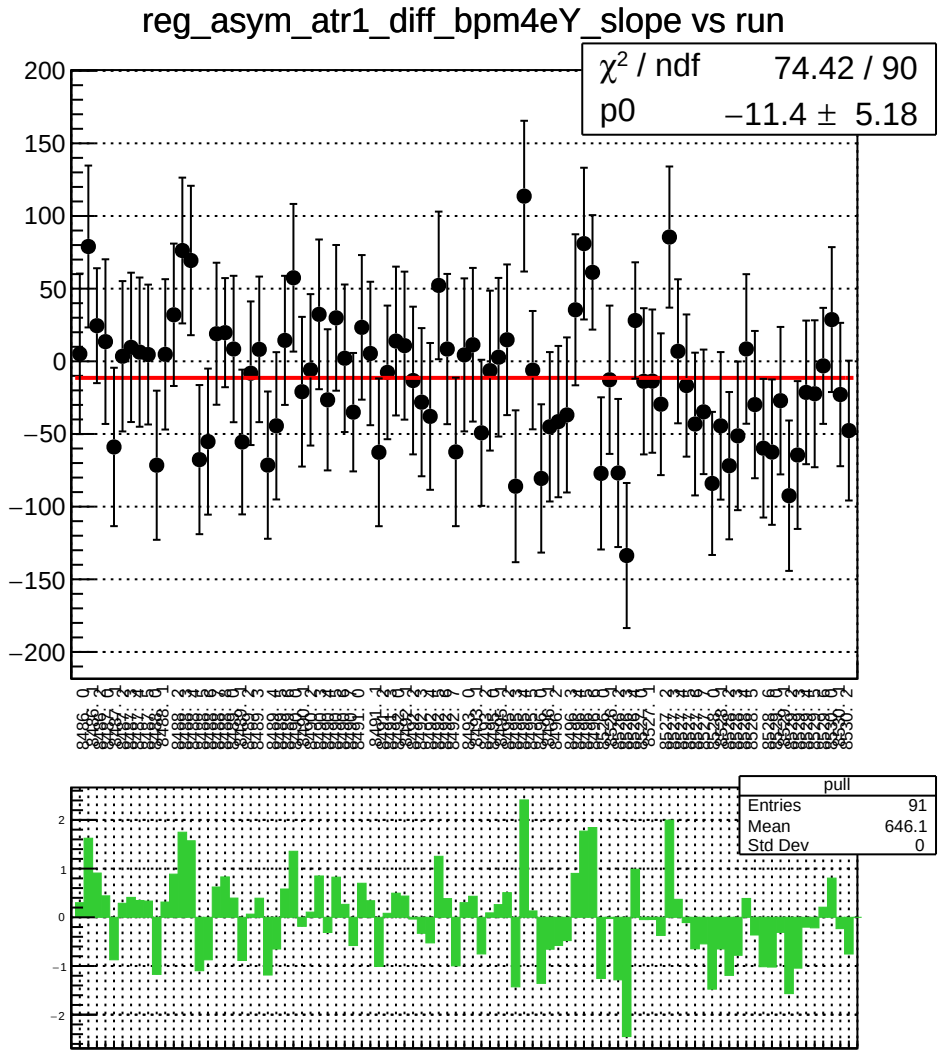

pull1D
Entries 91
Mean 0.007798
Std Dev 0.7225

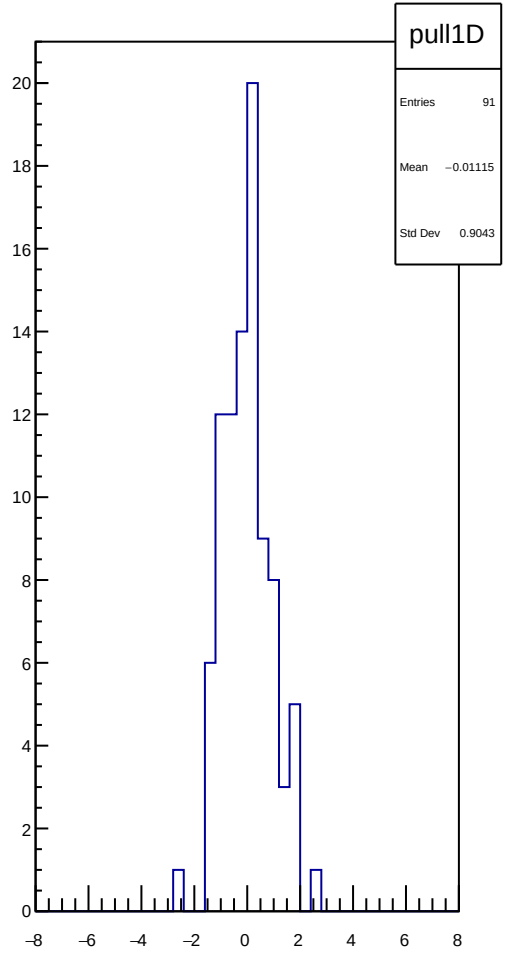

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 73.13 / 90
p0 8.739 ± 4.89
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean 851.5
Std Dev 0
2
1
0
−1
−2

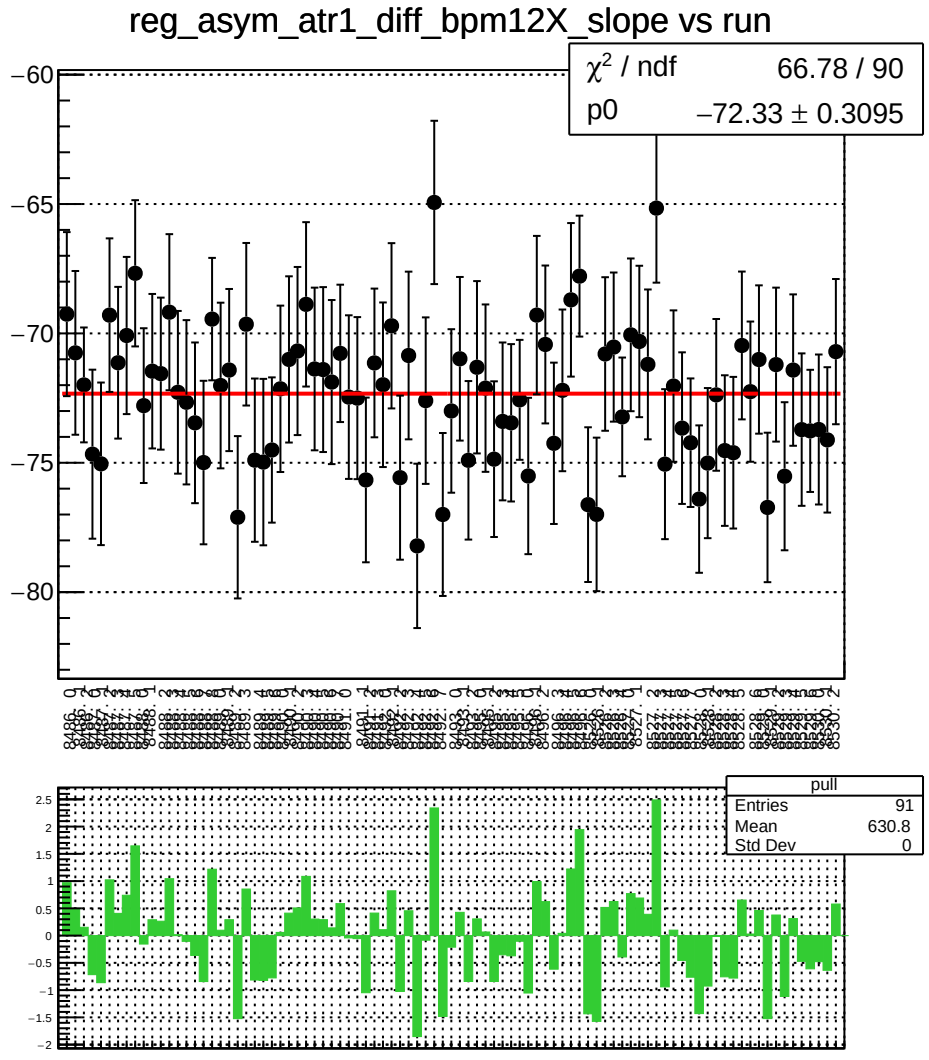

pull1D
Entries 91
Mean 0.008779
Std Dev 0.8964
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

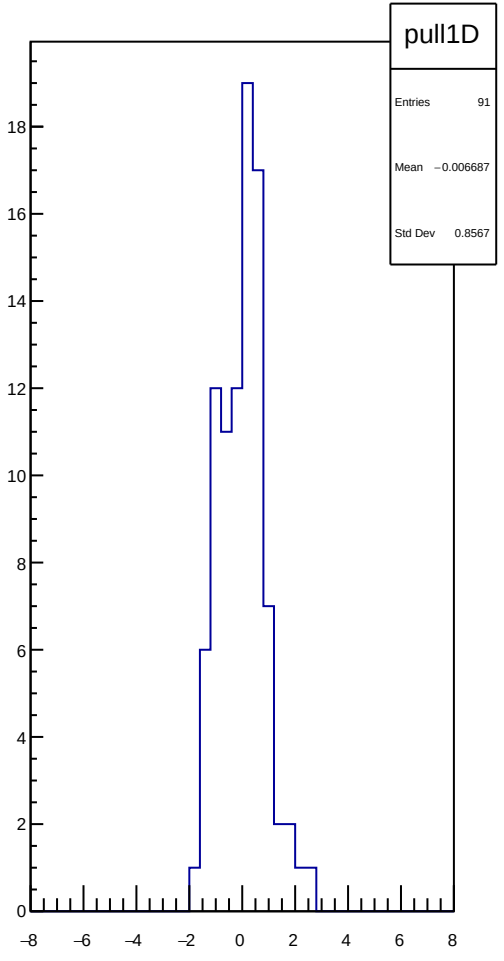

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 47.86 / 90
p0 60.61 ± 3.314
pull
Entries 91
Mean 152.3
Std Dev 0

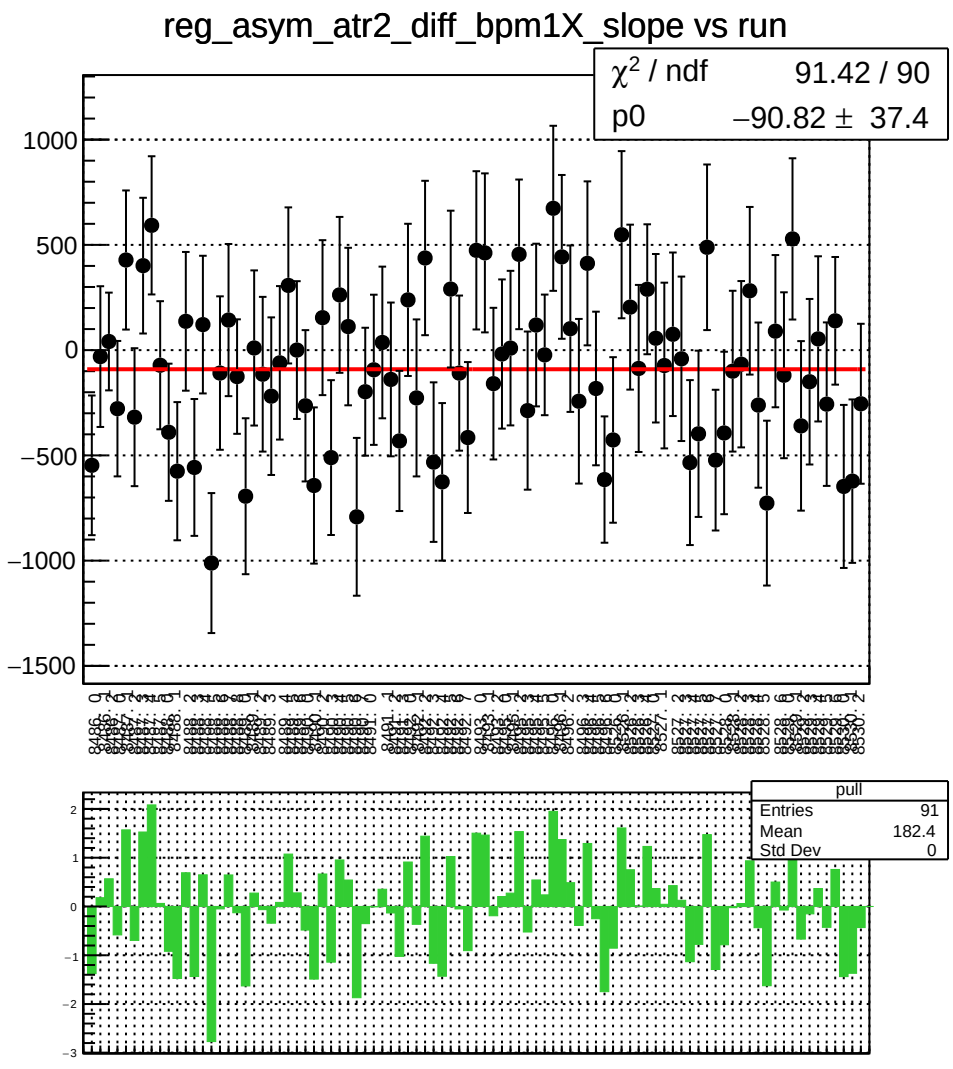

pull1D
Entries 91
Mean −0.007323
Std Dev 0.7252

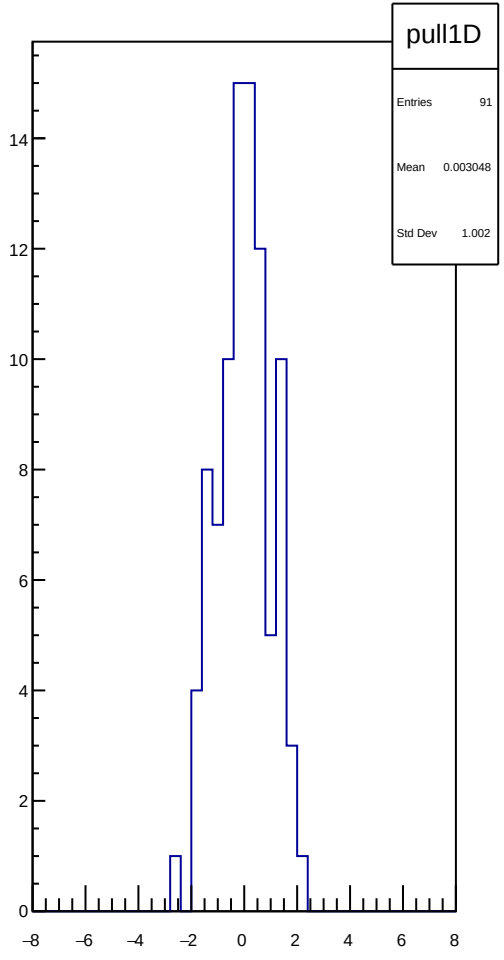

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 74.42 / 90
p0 −11.4 ± 5.18
pull
Entries 91
Mean 646.1
Std Dev 0

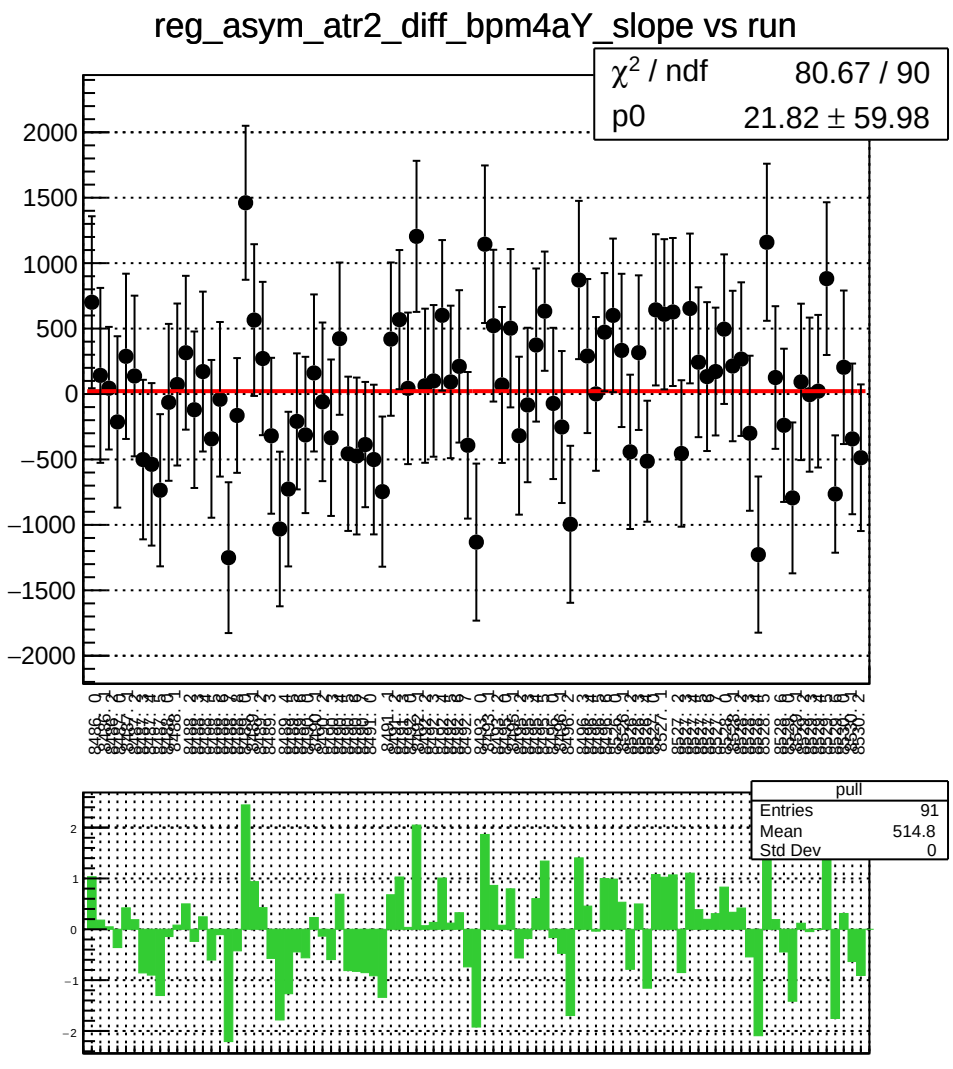

pull1D
Entries 91
Mean −0.01115
Std Dev 0.9043

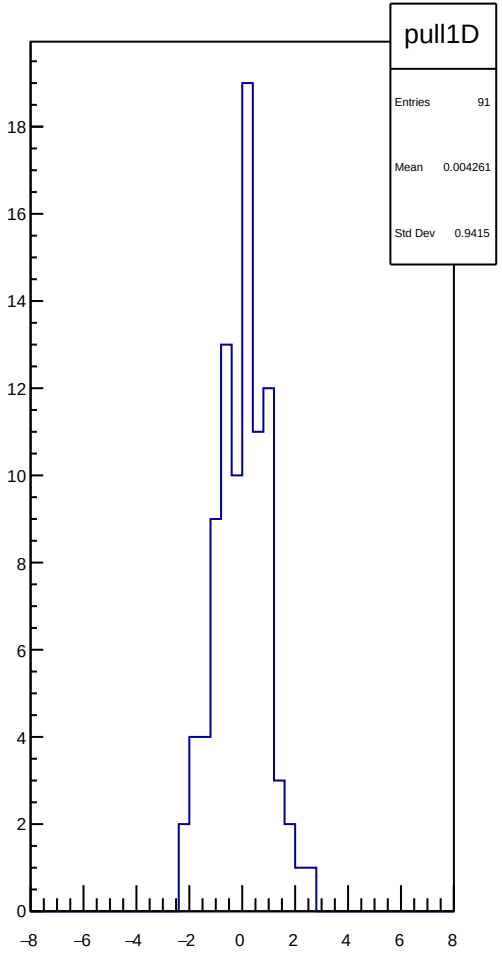

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 66.78 / 90
p0 −72.33 ± 0.3095
pull
Entries 91
Mean 630.8
Std Dev 0

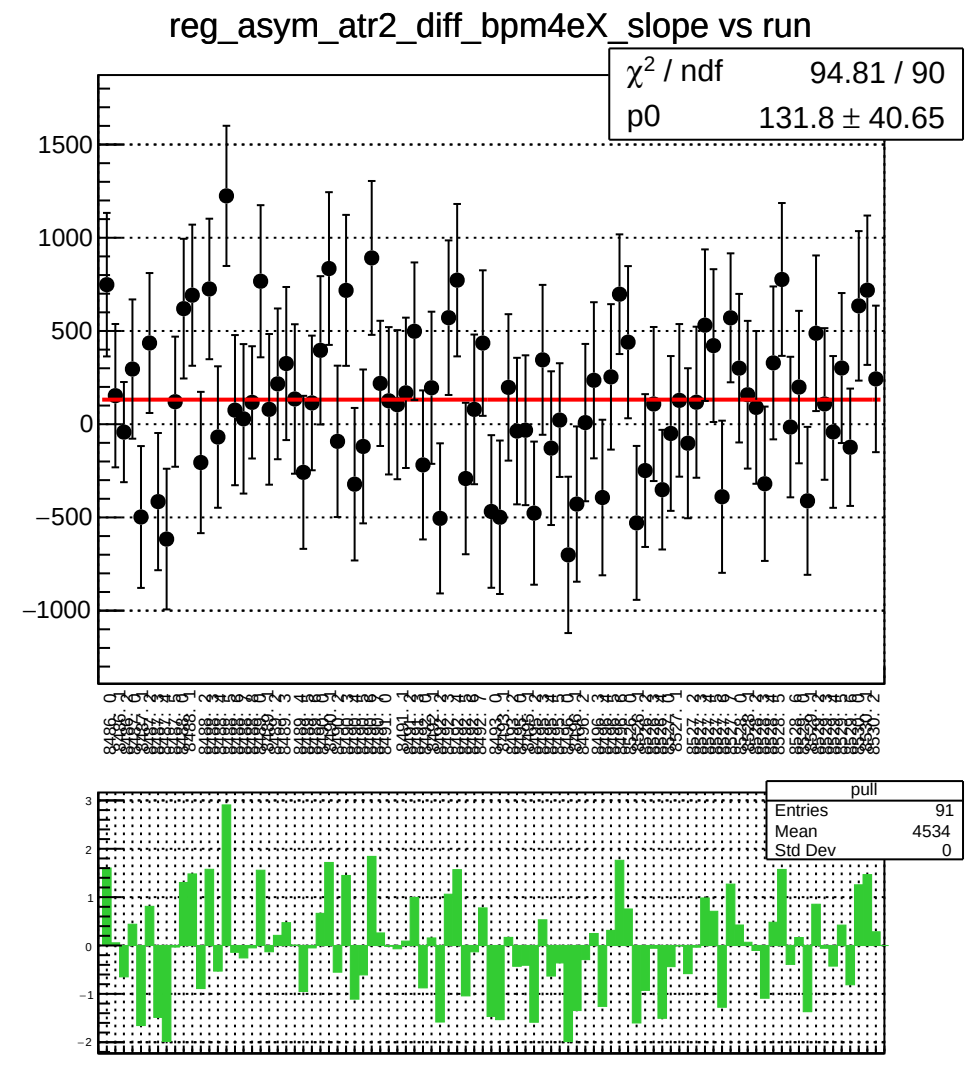

pull1D
Entries 91
Mean −0.006687
Std Dev 0.8567

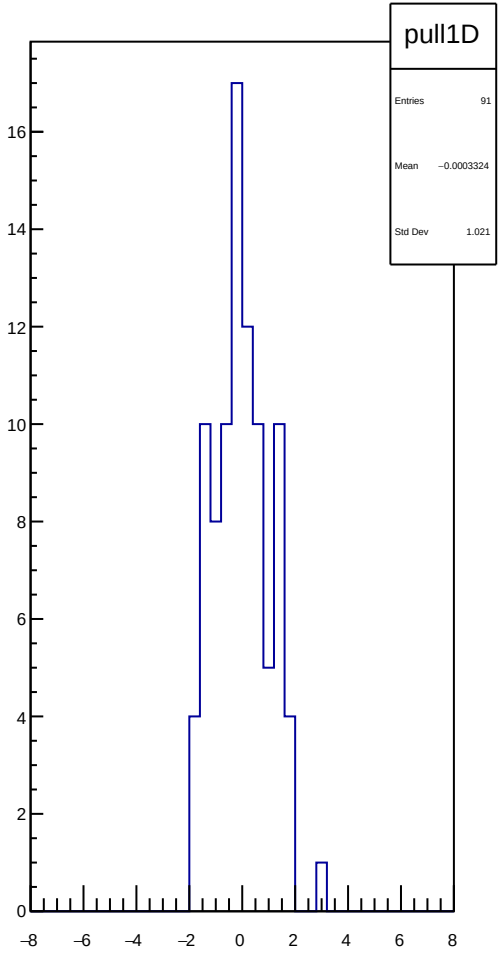

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 91.42 / 90
p0 −90.82 ± 37.4
1000
500
0
−500
−1000
−1500
pull
Entries 91
Mean 182.4
Std Dev 0
2
1
0
−1
−2
−3

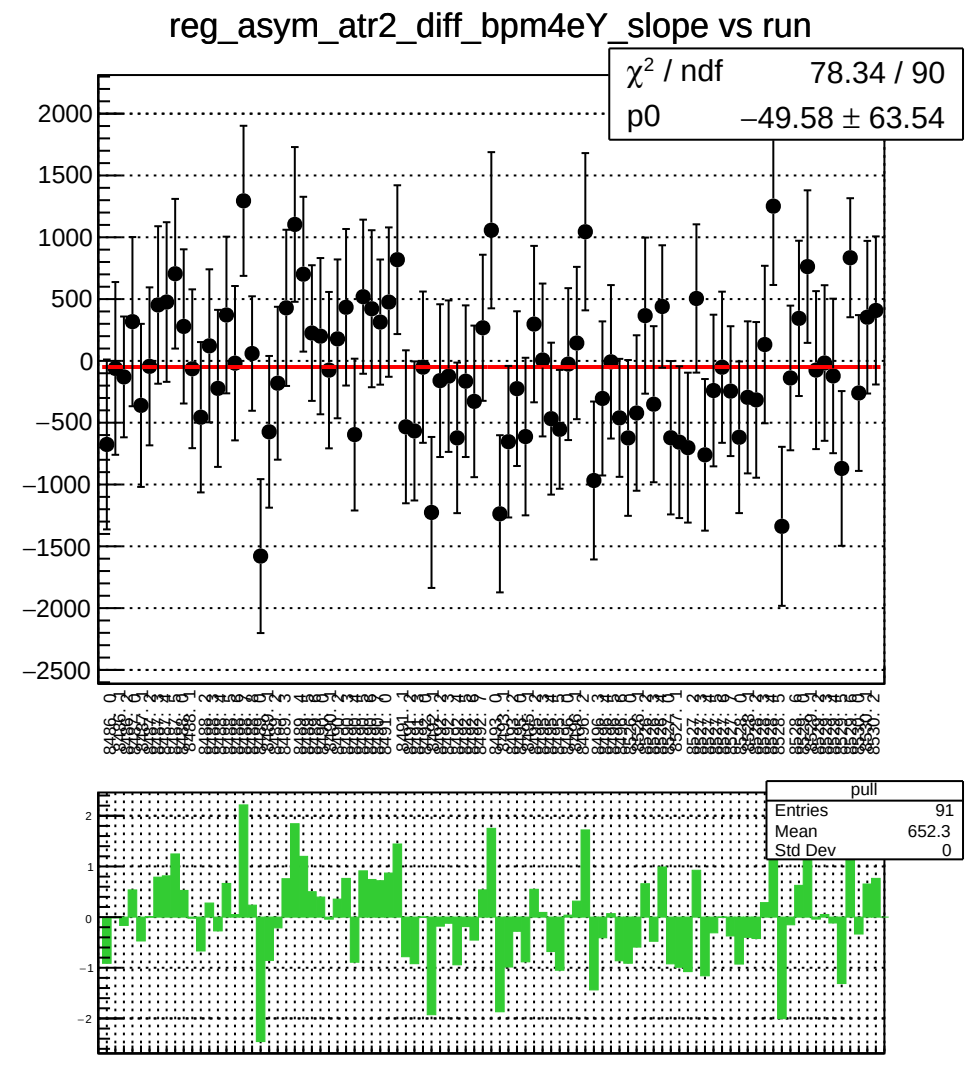

pull1D
Entries 91
Mean 0.003048
Std Dev 1.002
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

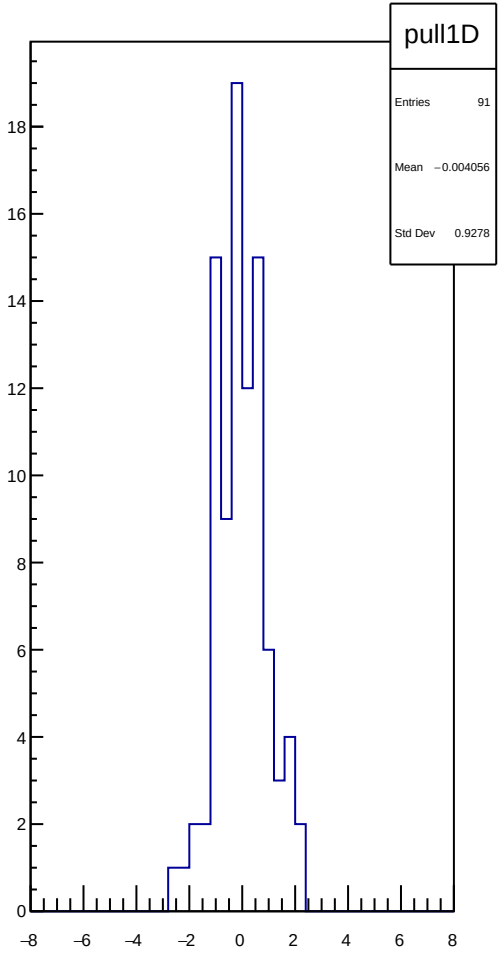

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 80.67 / 90
p0 21.82 ± 59.98
pull
Entries 91
Mean 514.8
Std Dev 0

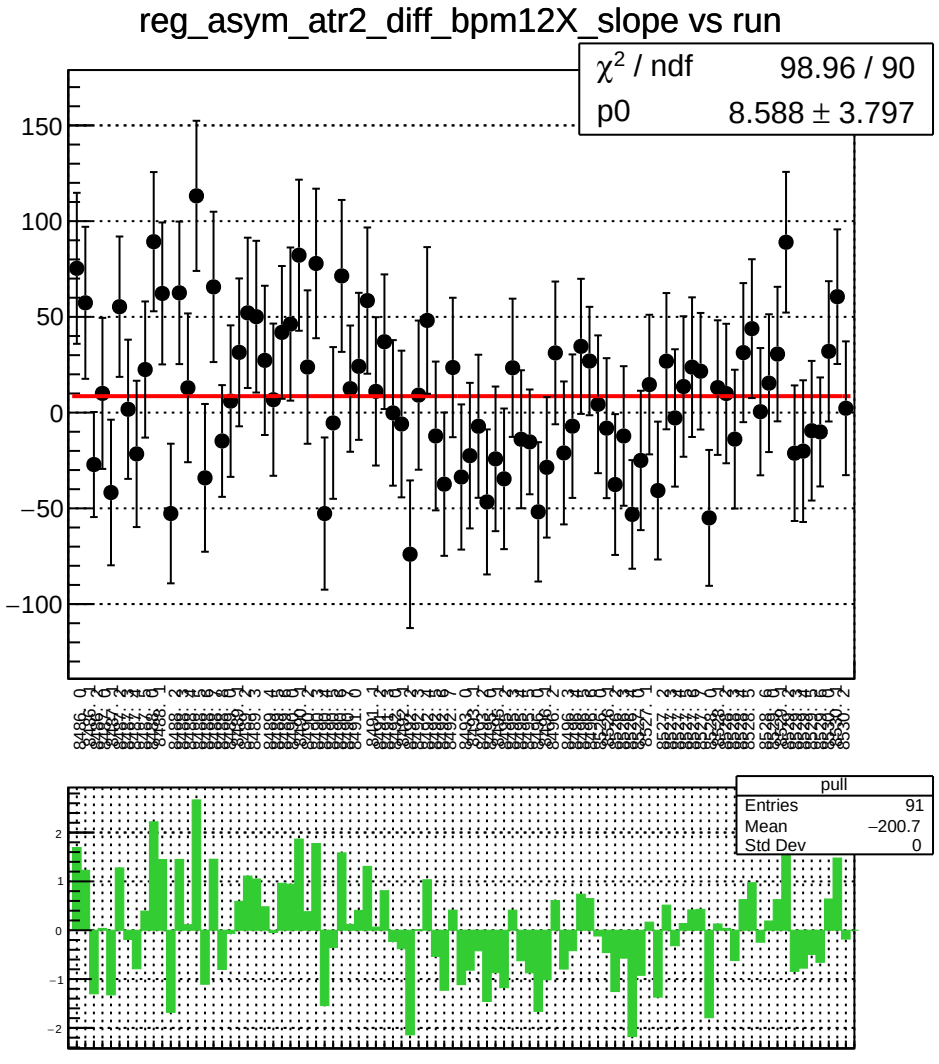

pull1D
Entries 91
Mean 0.004261
Std Dev 0.9415

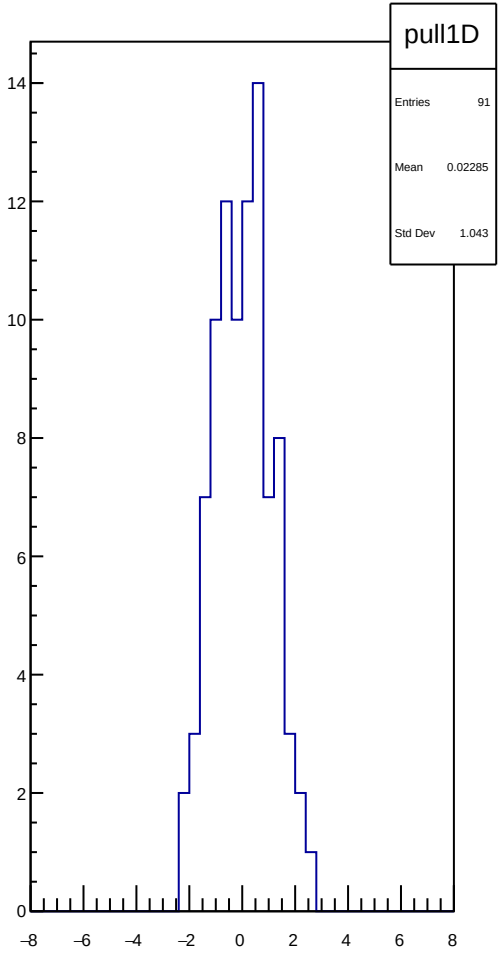

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 94.81 / 90
p0 131.8 ± 40.65
1500
1000
500
0
−500
−1000
pull
Entries 91
Mean 4534
Std Dev 0
3
2
1
0
−1
−2

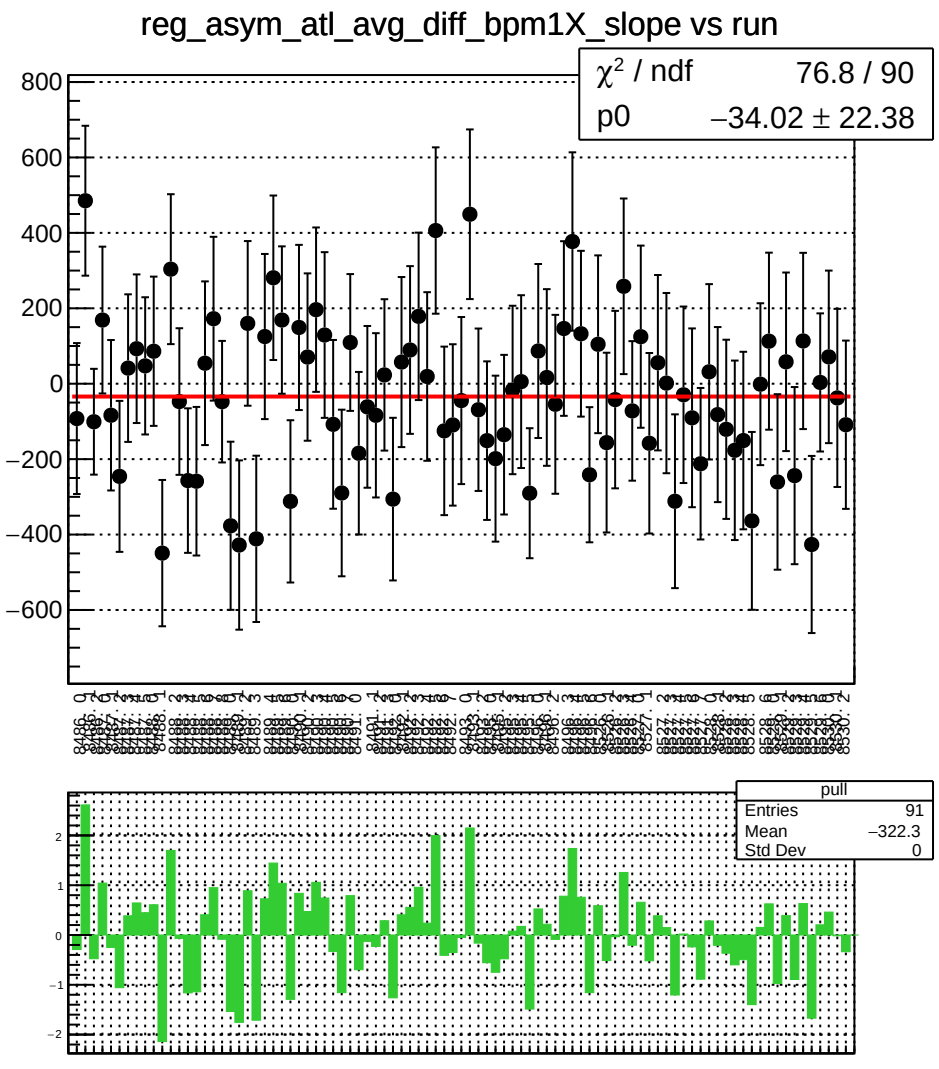

pull1D
Entries 91
Mean −0.0003324
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

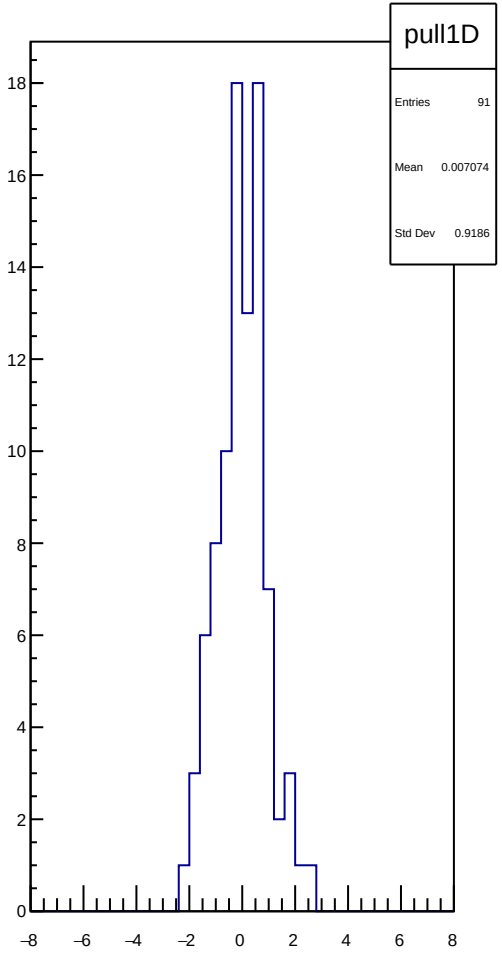

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 78.34 / 90
p0 −49.58 ± 63.54
pull
Entries 91
Mean 652.3
Std Dev 0

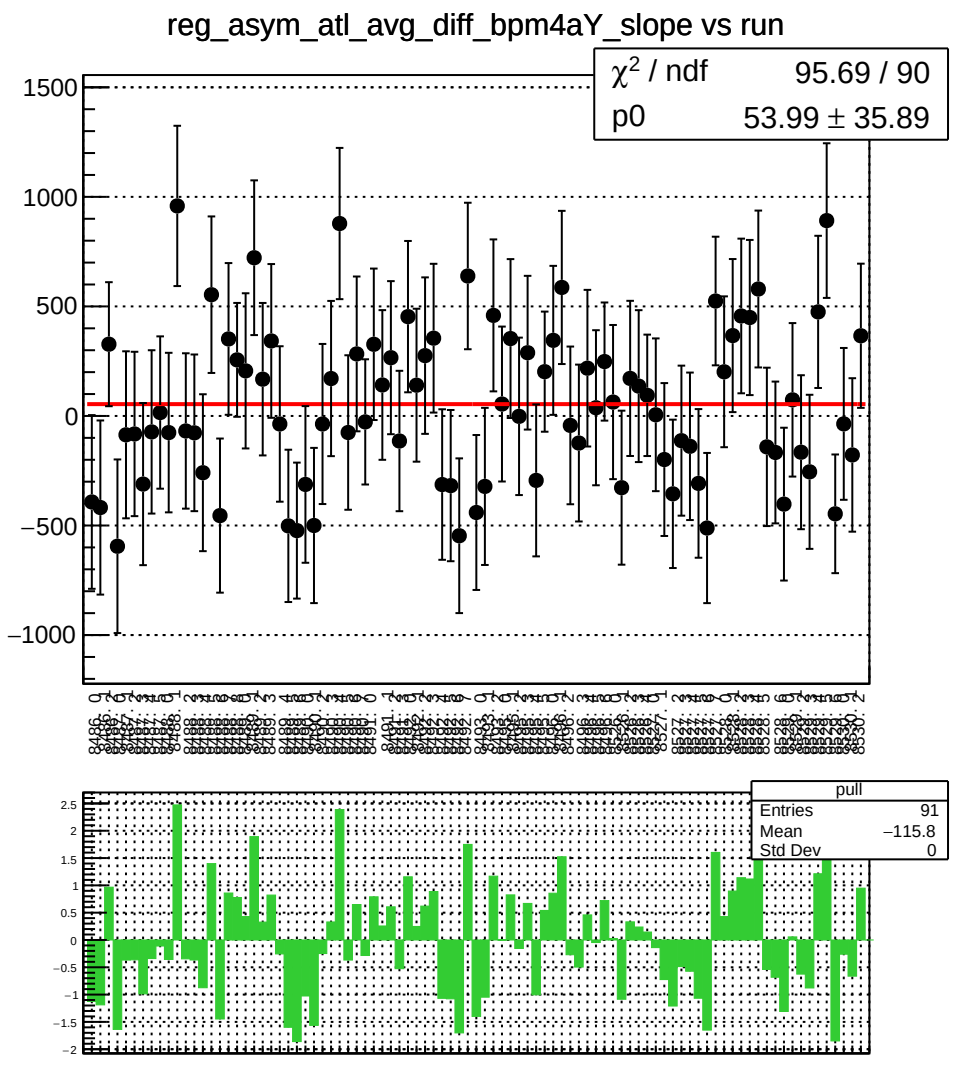

pull1D
Entries 91
Mean −0.004056
Std Dev 0.9278

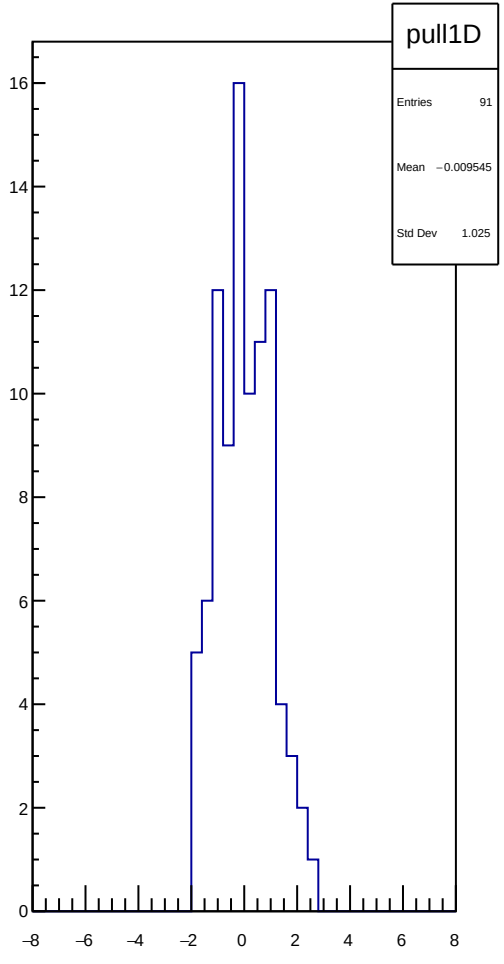

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 98.96 / 90
p0 8.588 ± 3.797
150
100
50
0
−50
−100
pull
Entries 91
Mean −200.7
Std Dev 0
2
1
0
−1
−2

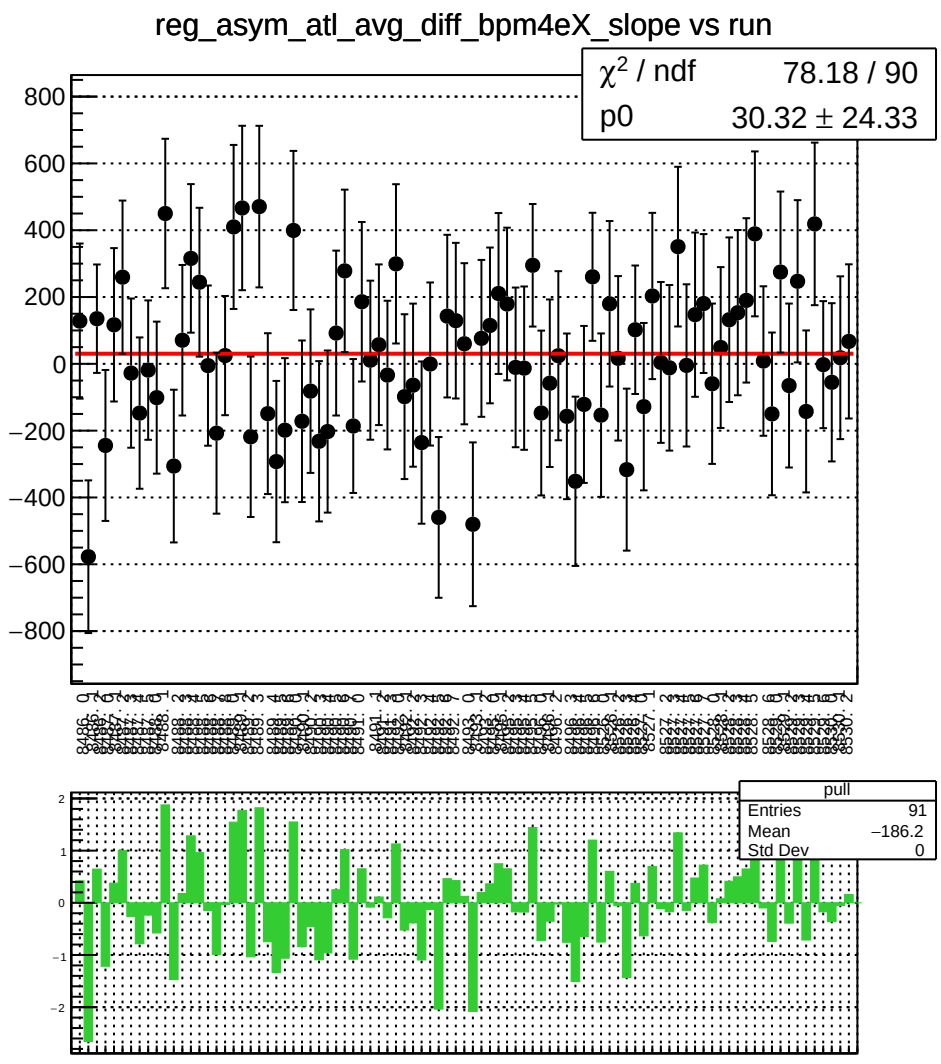

pull1D
Entries 91
Mean 0.02285
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

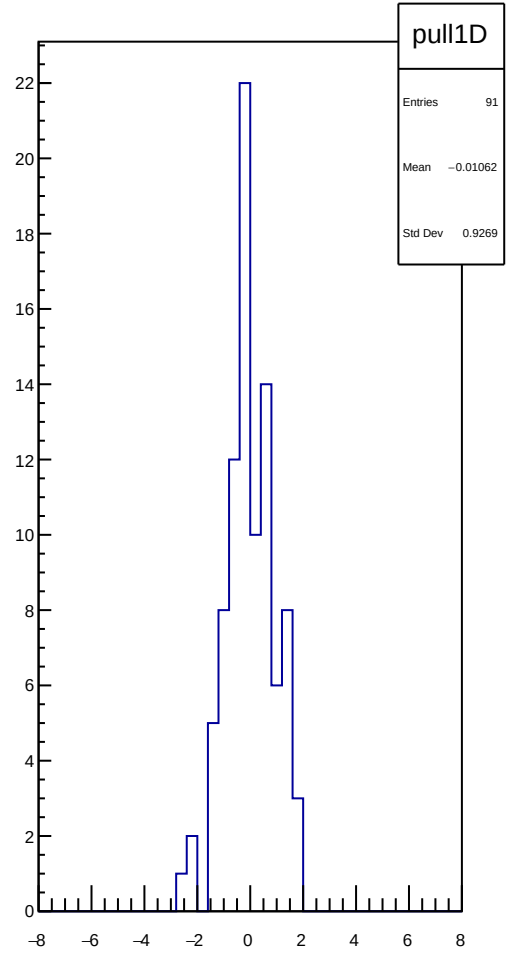

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 76.8 / 90
p0 −34.02 ± 22.38
pull
Entries 91
Mean −322.3
Std Dev 0

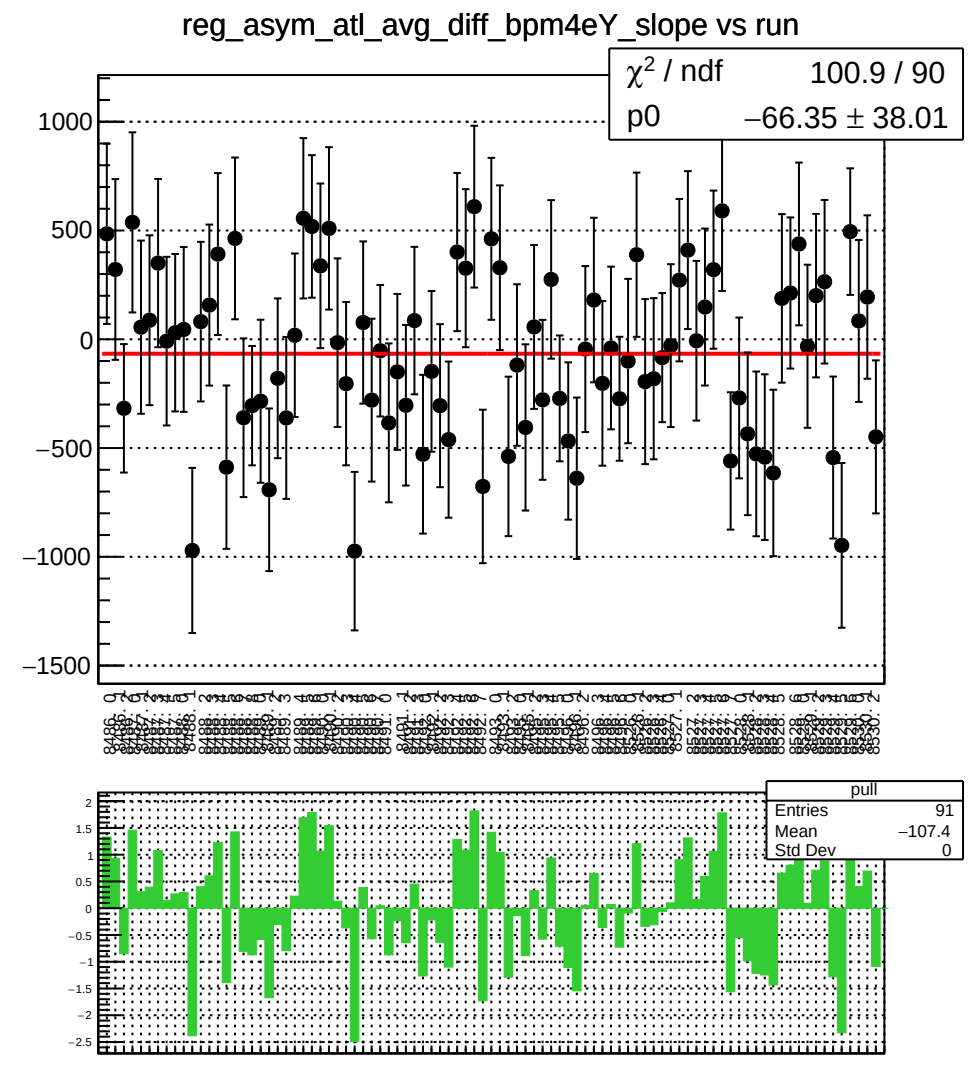

pull1D
Entries 91
Mean 0.007074
Std Dev 0.9186

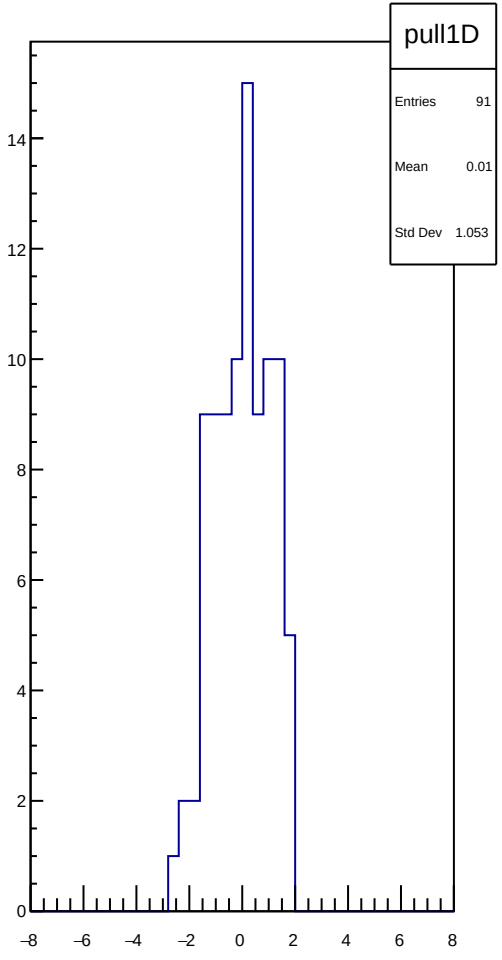

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 95.69 / 90
p0 53.99 ± 35.89
1500
1000
500
0
−500
−1000
pull
Entries 91
Mean −115.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

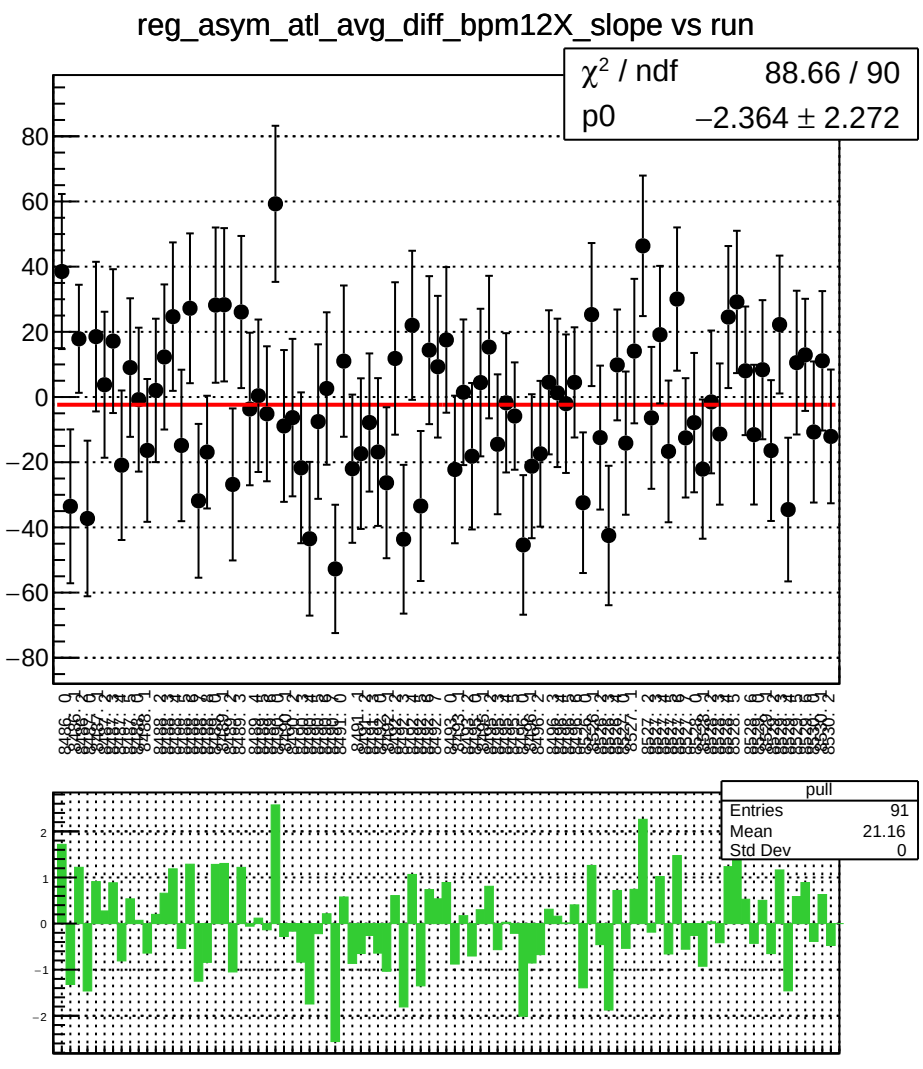

pull1D
Entries 91
Mean −0.009545
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

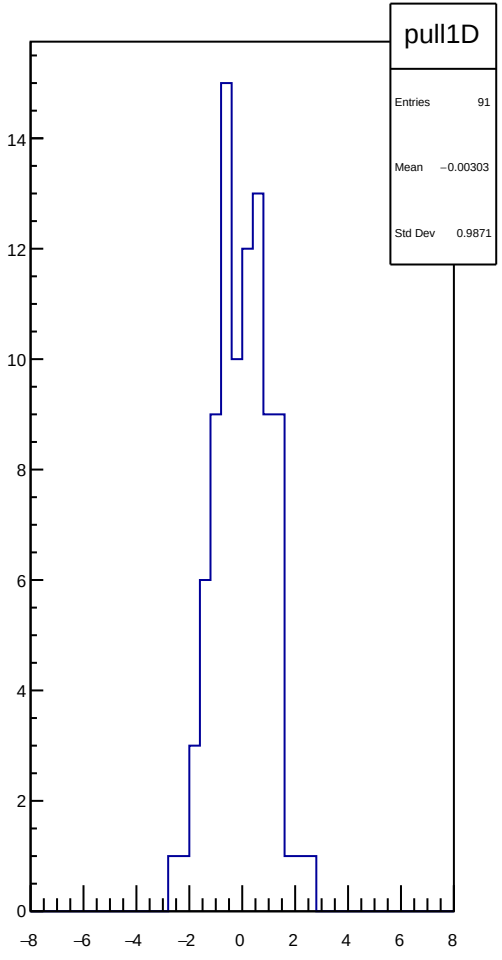

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 78.18 / 90
p0 30.32 ± 24.33
pull
Entries 91
Mean −186.2
Std Dev 0

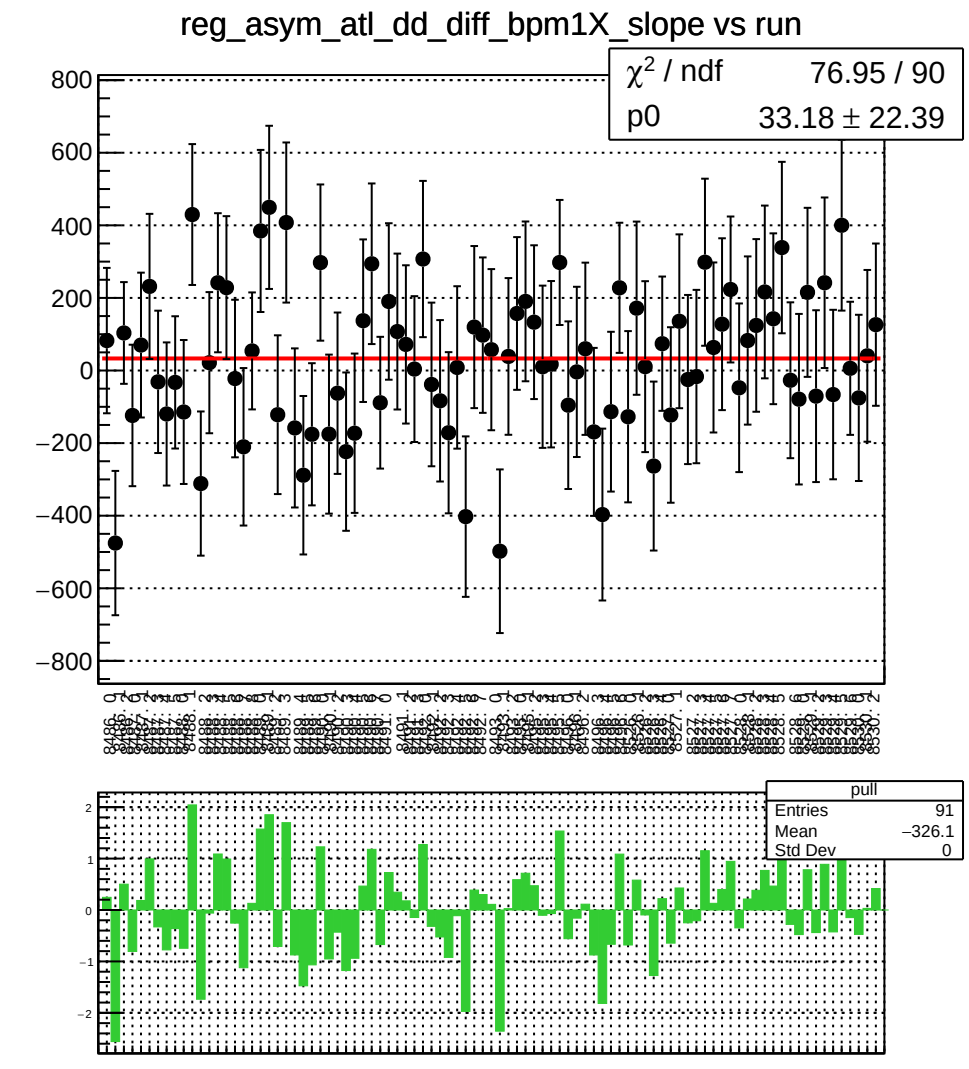

pull1D
Entries 91
Mean −0.01062
Std Dev 0.9269

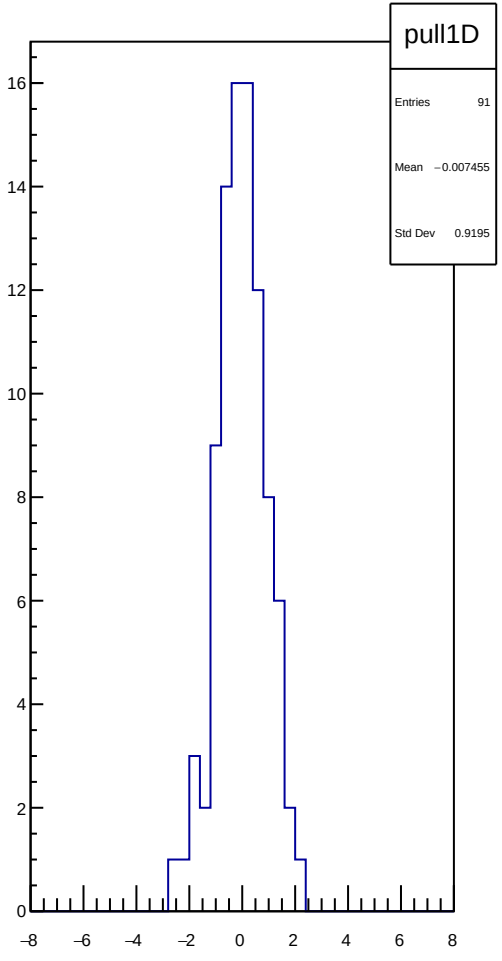

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 100.9 / 90
p0 −66.35 ± 38.01
1000
500
0
−500
−1000
−1500
pull
Entries 91
Mean −107.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

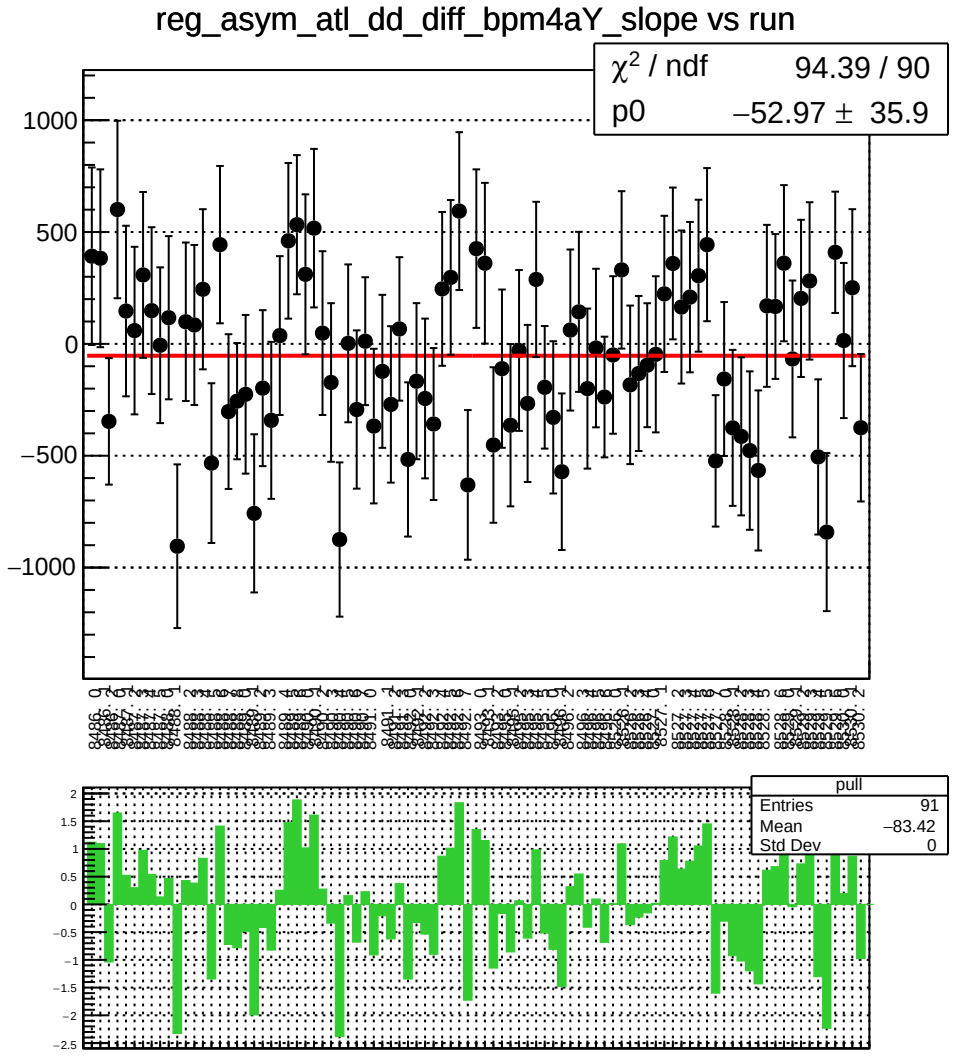

pull1D
Entries 91
Mean 0.01
Std Dev 1.053
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

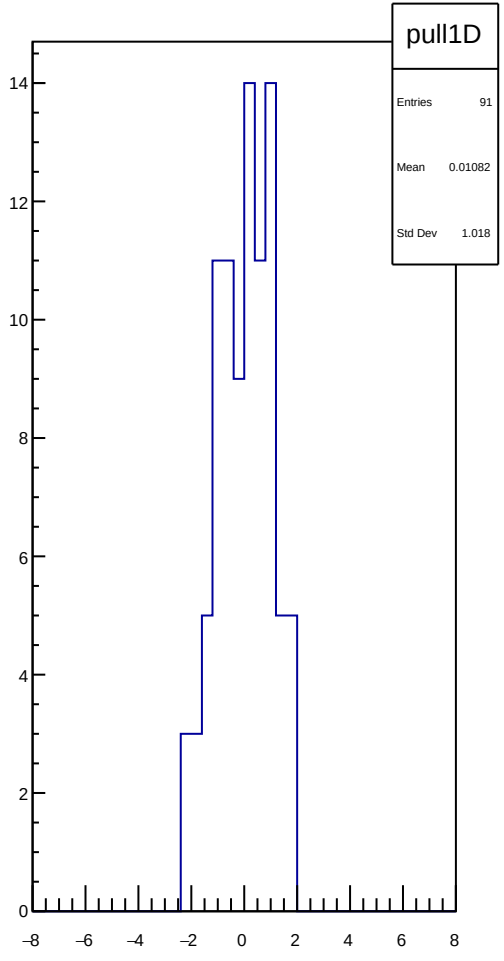

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 88.66 / 90
p0 −2.364 ± 2.272
pull
Entries 91
Mean 21.16
Std Dev 0

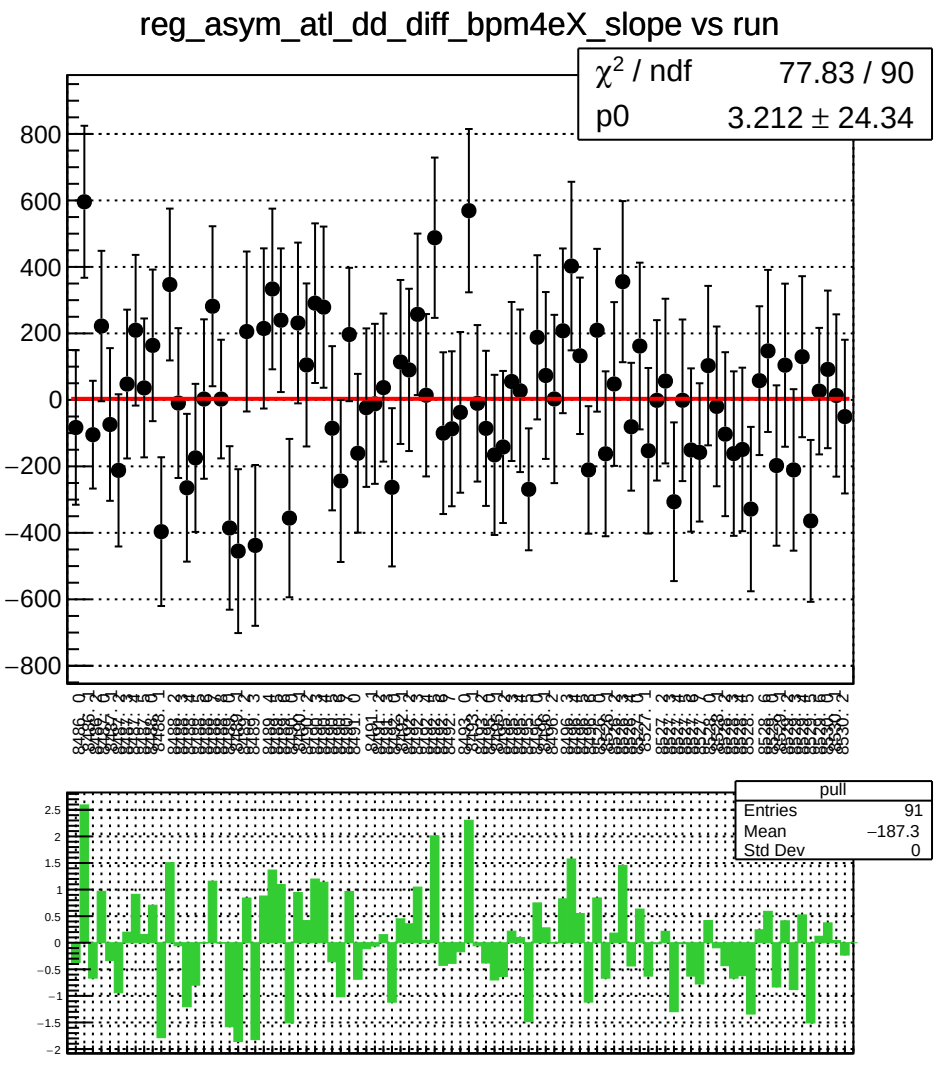

pull1D
Entries 91
Mean −0.00303
Std Dev 0.9871

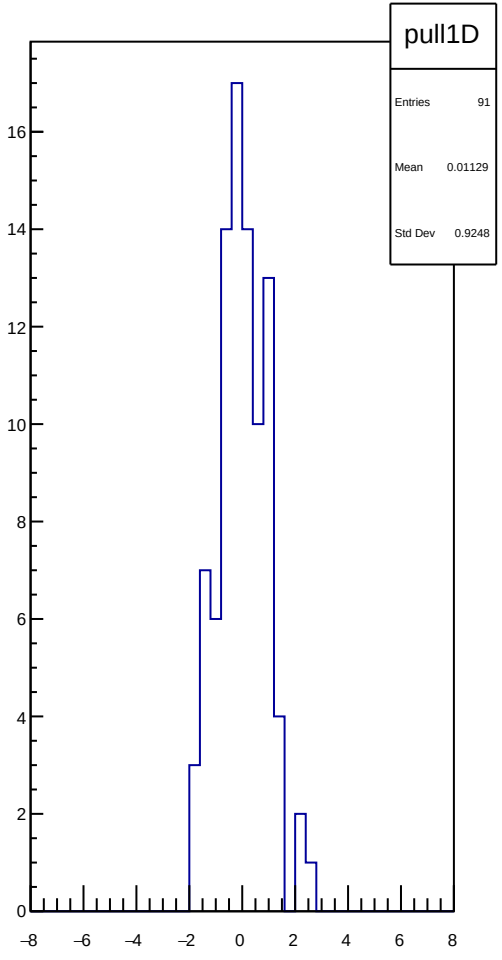

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 76.95 / 90
p0 33.18 ± 22.39
pull
Entries 91
Mean −326.1
Std Dev 0

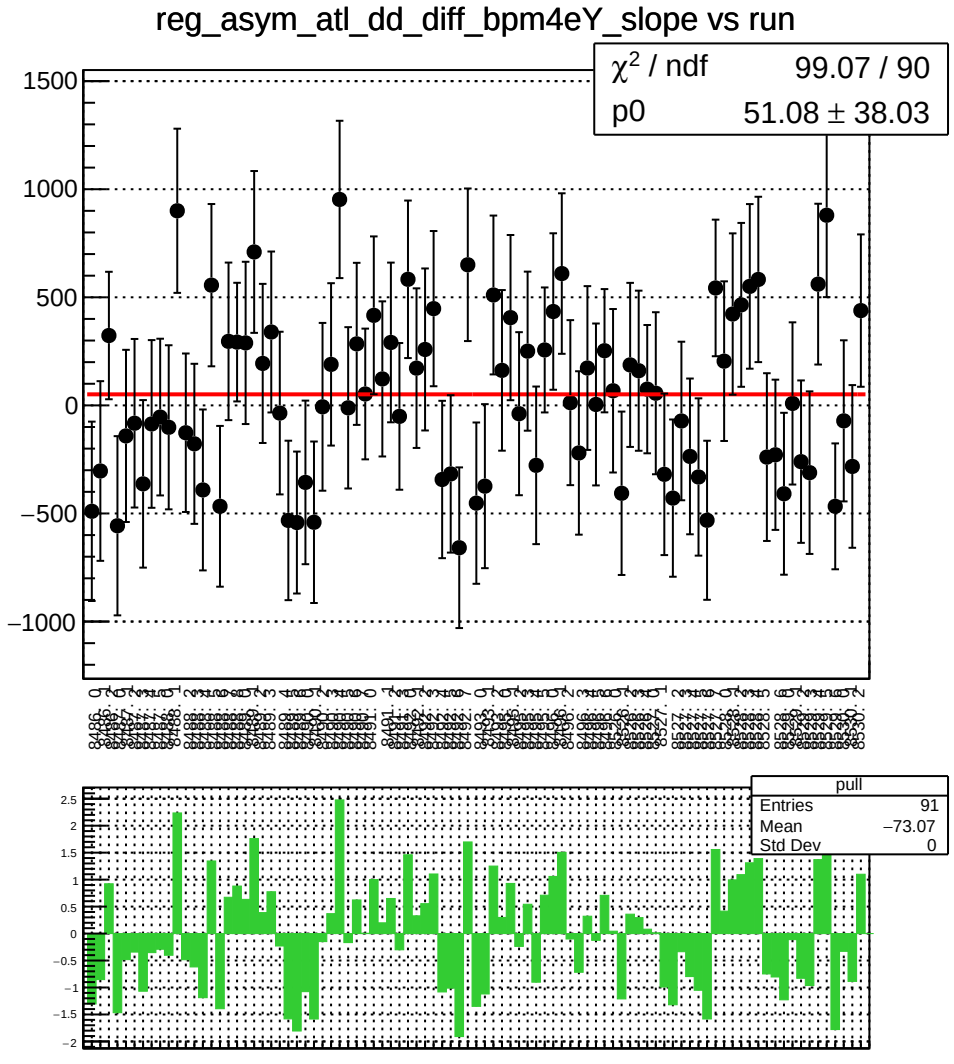

pull1D
Entries 91
Mean −0.007455
Std Dev 0.9195

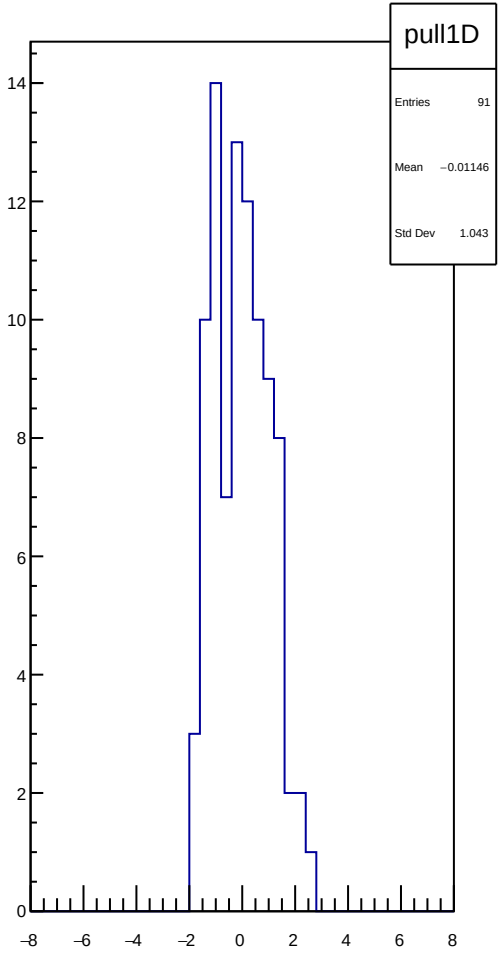

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 94.39 / 90
p0 −52.97 ± 35.9
1000
500
0
−500
−1000
pull
Entries 91
Mean −83.42
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

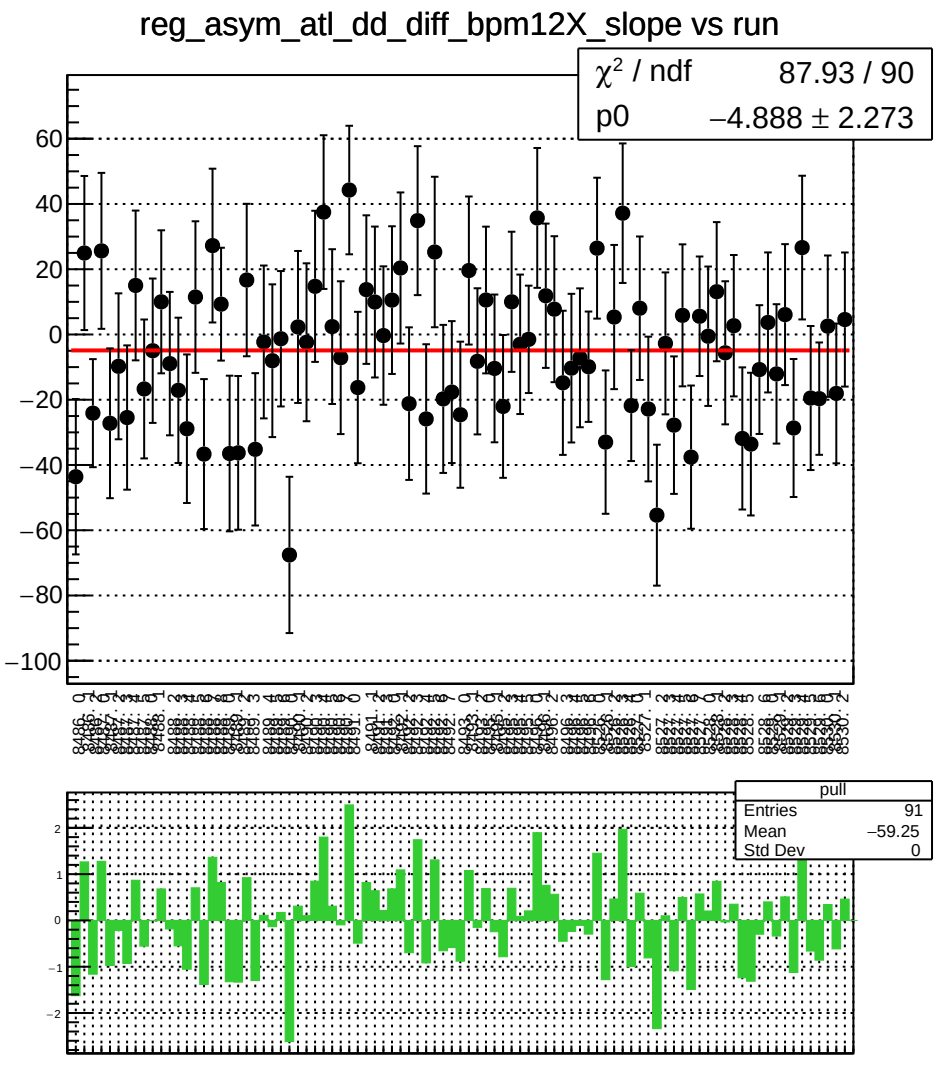

pull1D
Entries 91
Mean 0.01082
Std Dev 1.018
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

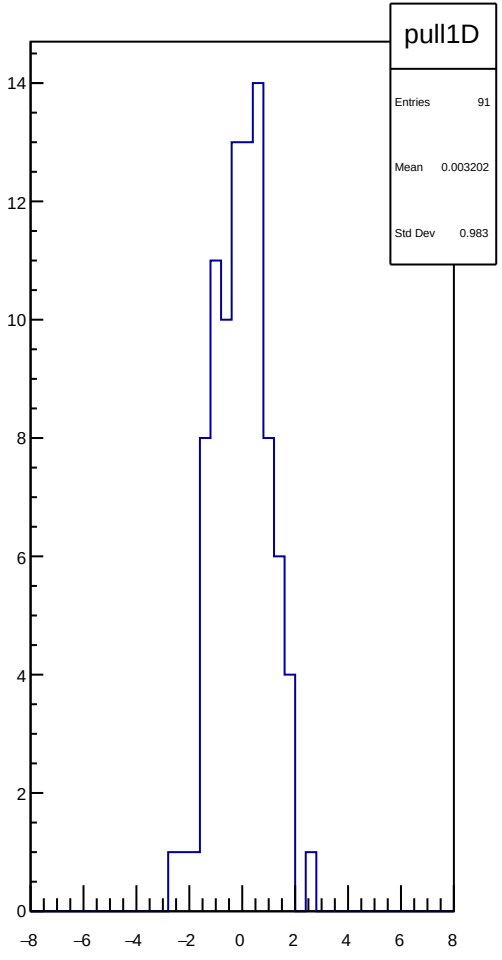

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 77.83 / 90
p0 3.212 ± 24.34
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 91
Mean −187.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

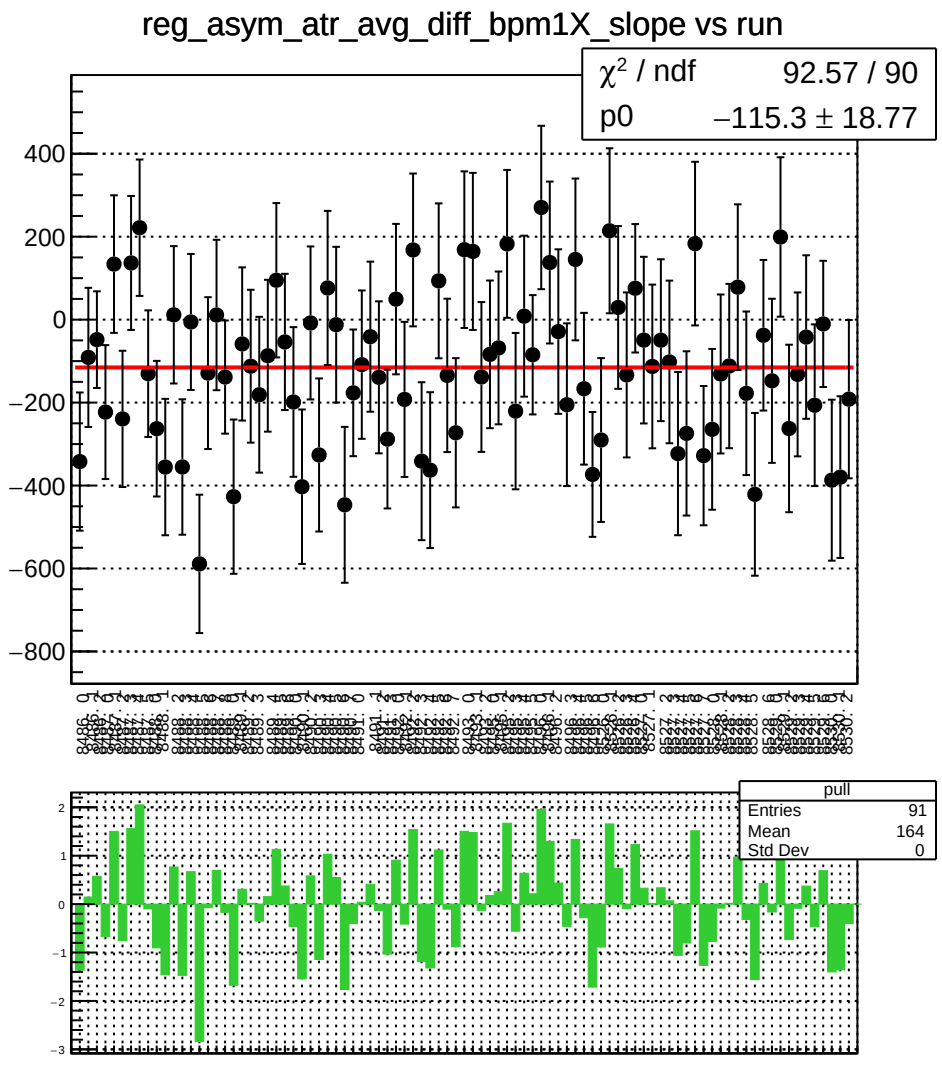

pull1D
Entries 91
Mean 0.01129
Std Dev 0.9248
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

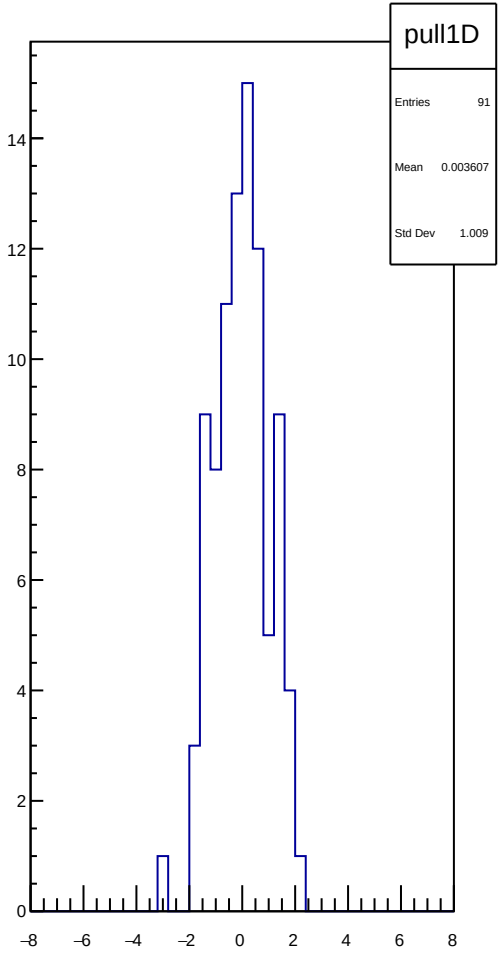

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 99.07 / 90
p0 51.08 ± 38.03
pull
Entries 91
Mean −73.07
Std Dev 0

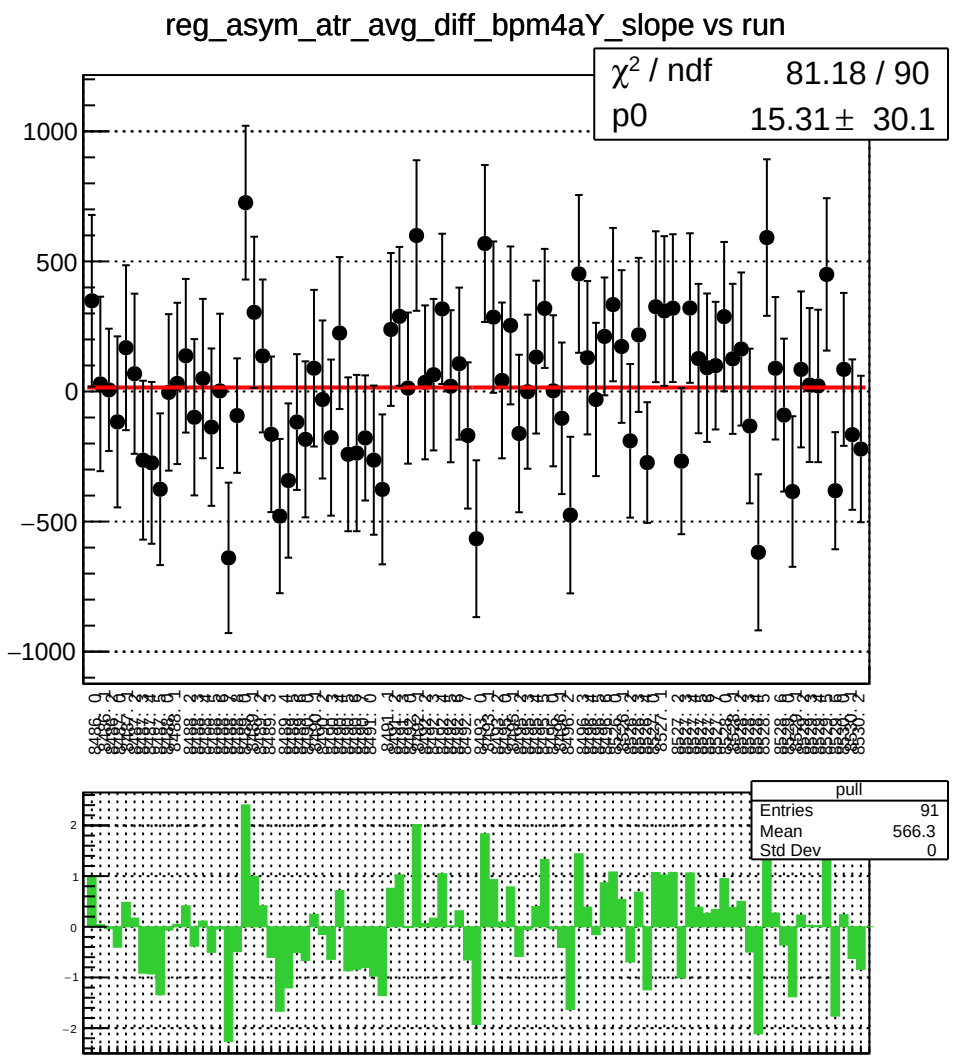

pull1D
Entries 91
Mean −0.01146
Std Dev 1.043

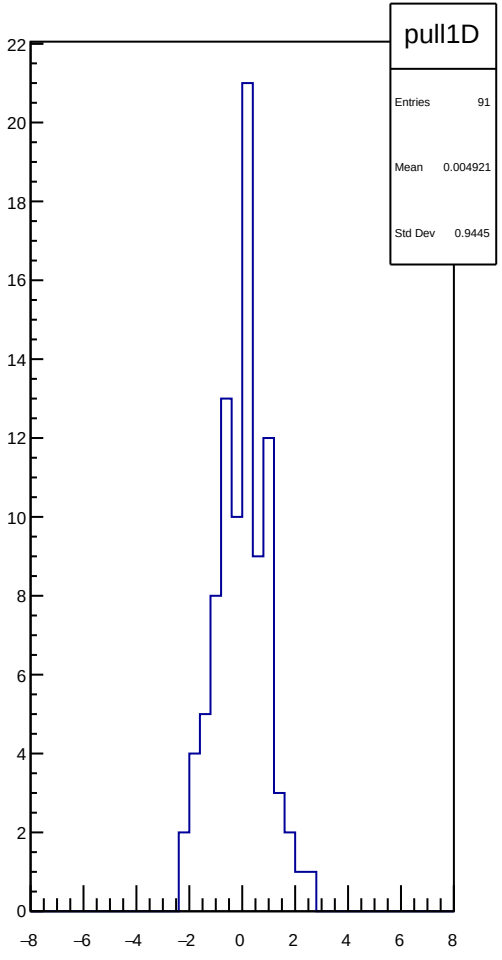

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 87.93 / 90
p0 −4.888 ± 2.273
pull
Entries 91
Mean −59.25
Std Dev 0

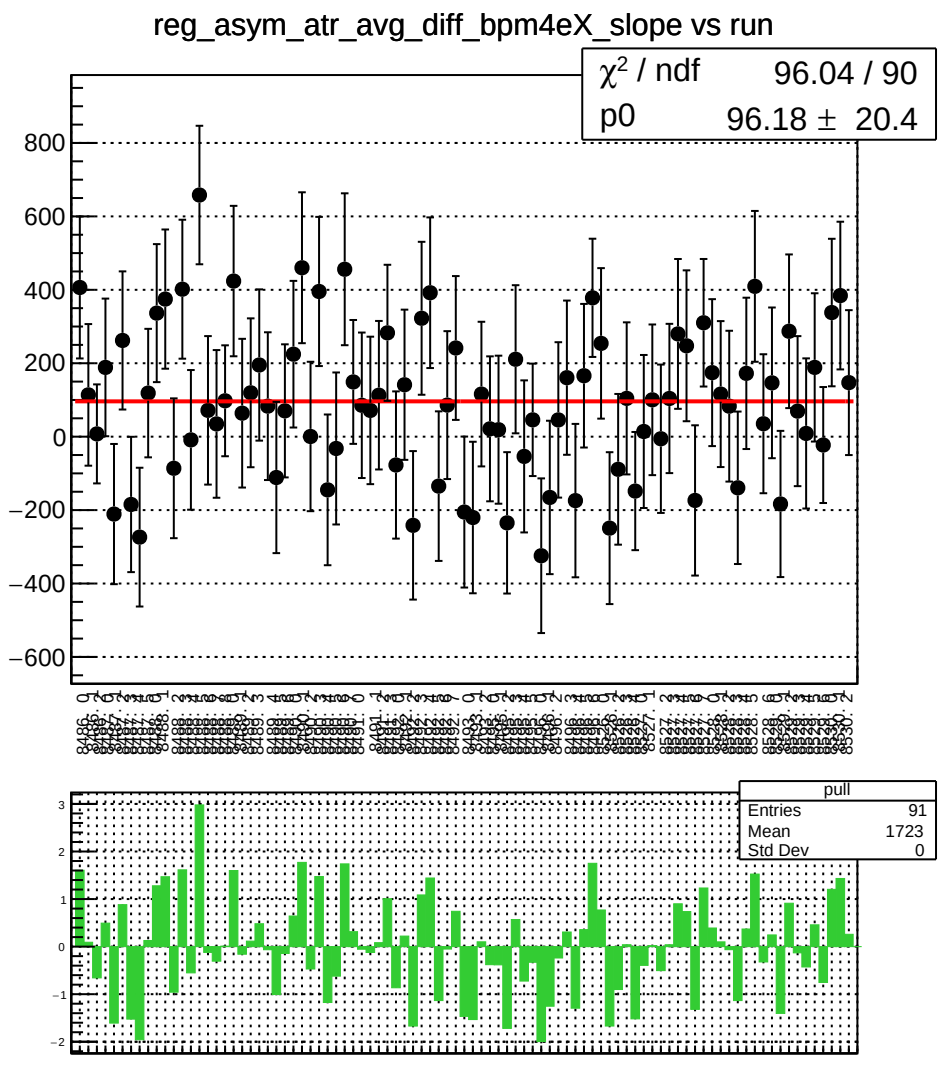

pull1D
Entries 91
Mean 0.003202
Std Dev 0.983

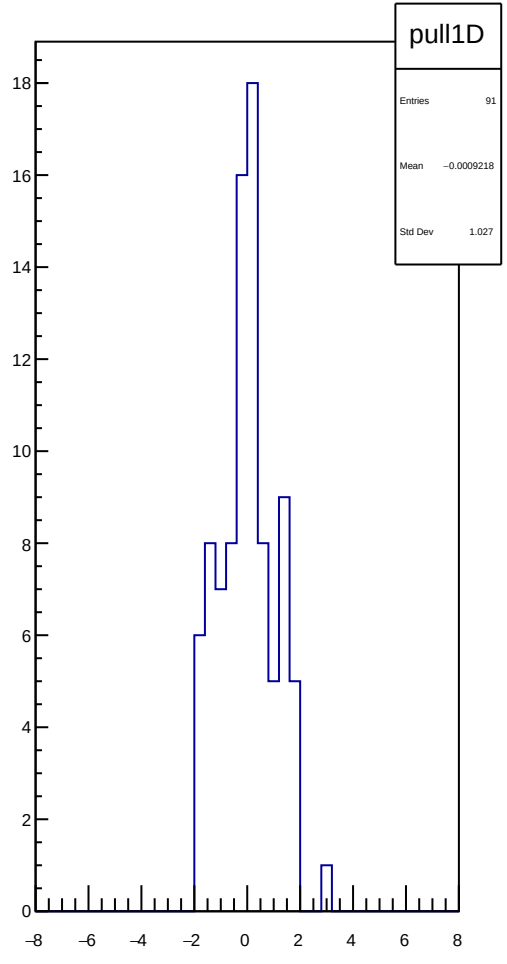

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 92.57 / 90
p0 −115.3 ± 18.77
pull
Entries 91
Mean 164
Std Dev 0

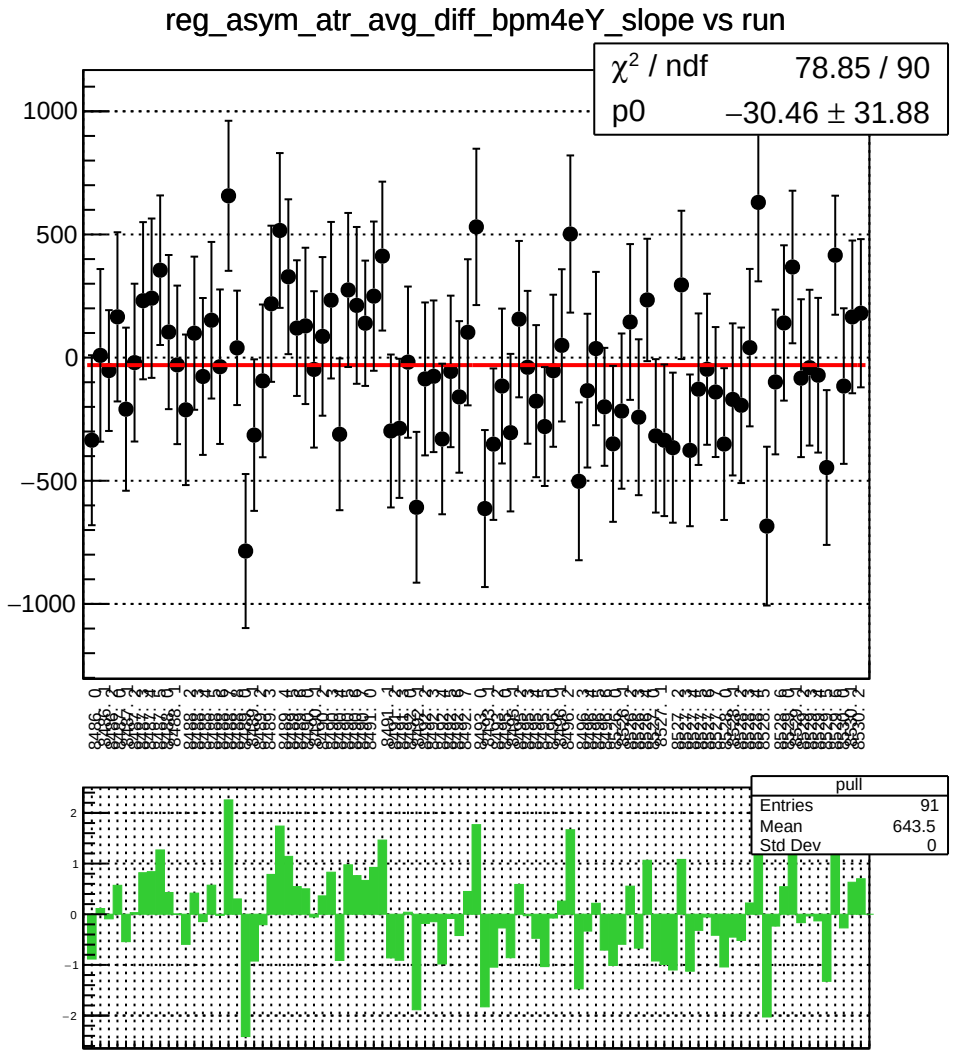

pull1D
Entries 91
Mean 0.003607
Std Dev 1.009

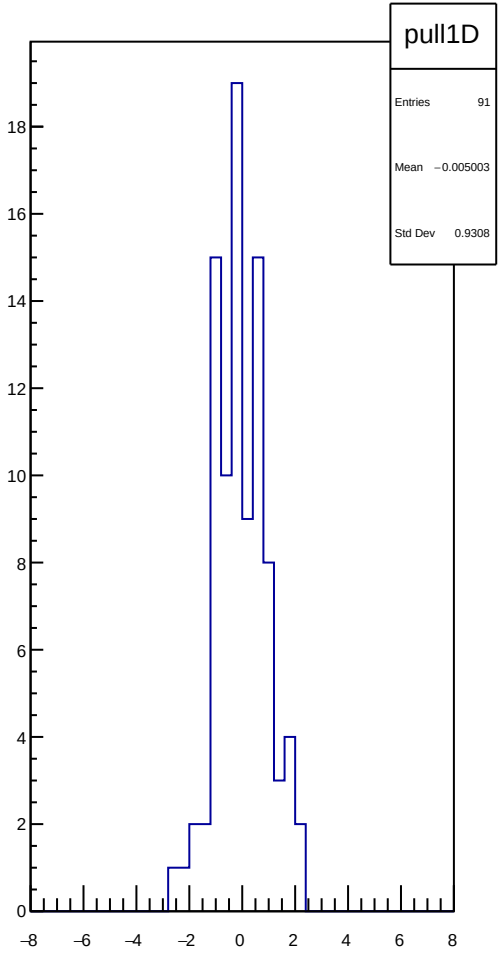

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 81.18 / 90
p0 15.31 ± 30.1
1000
500
0
−500
−1000
pull
Entries 91
Mean 566.3
Std Dev 0
2
1
0
−1
−2

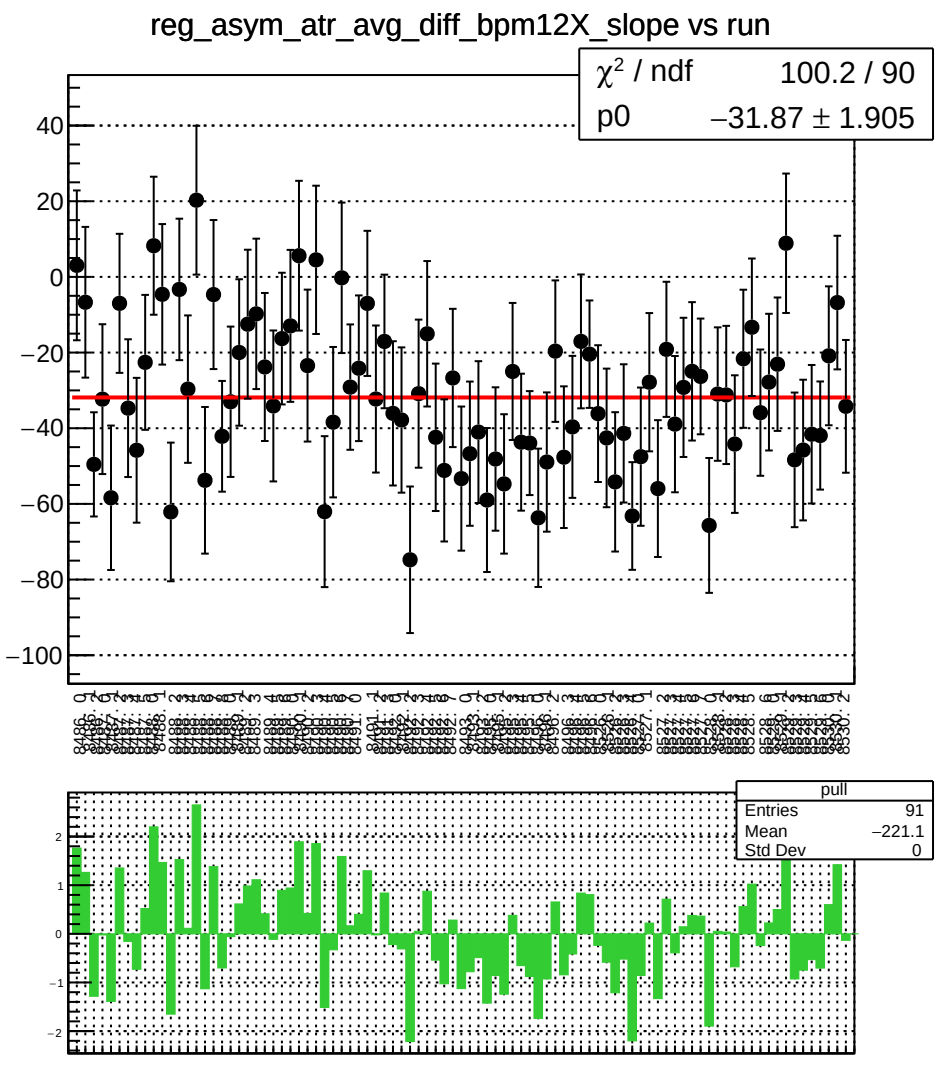

pull1D
Entries 91
Mean 0.004921
Std Dev 0.9445
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

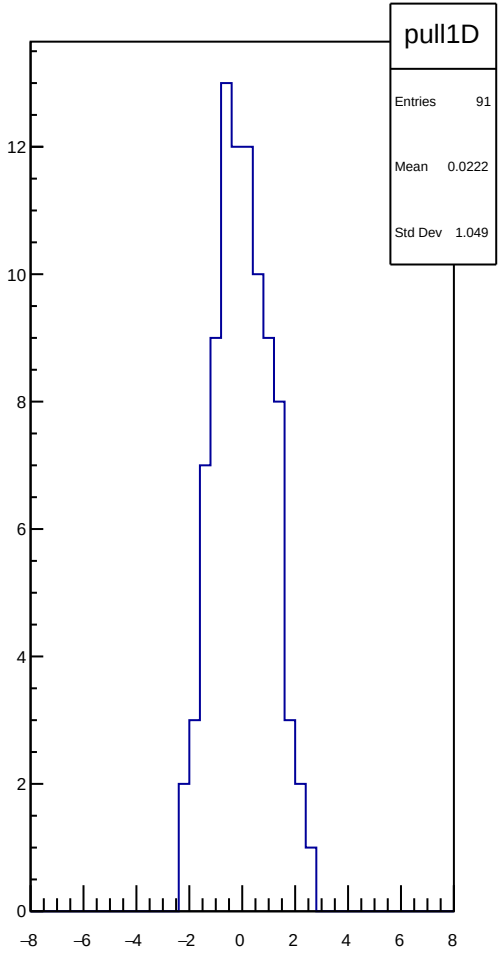

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 96.04 / 90
p0 96.18 ± 20.4
800
600
400
200
0
−200
−400
−600
pull
Entries 91
Mean 1723
Std Dev 0
3
2
1
0
−1
−2

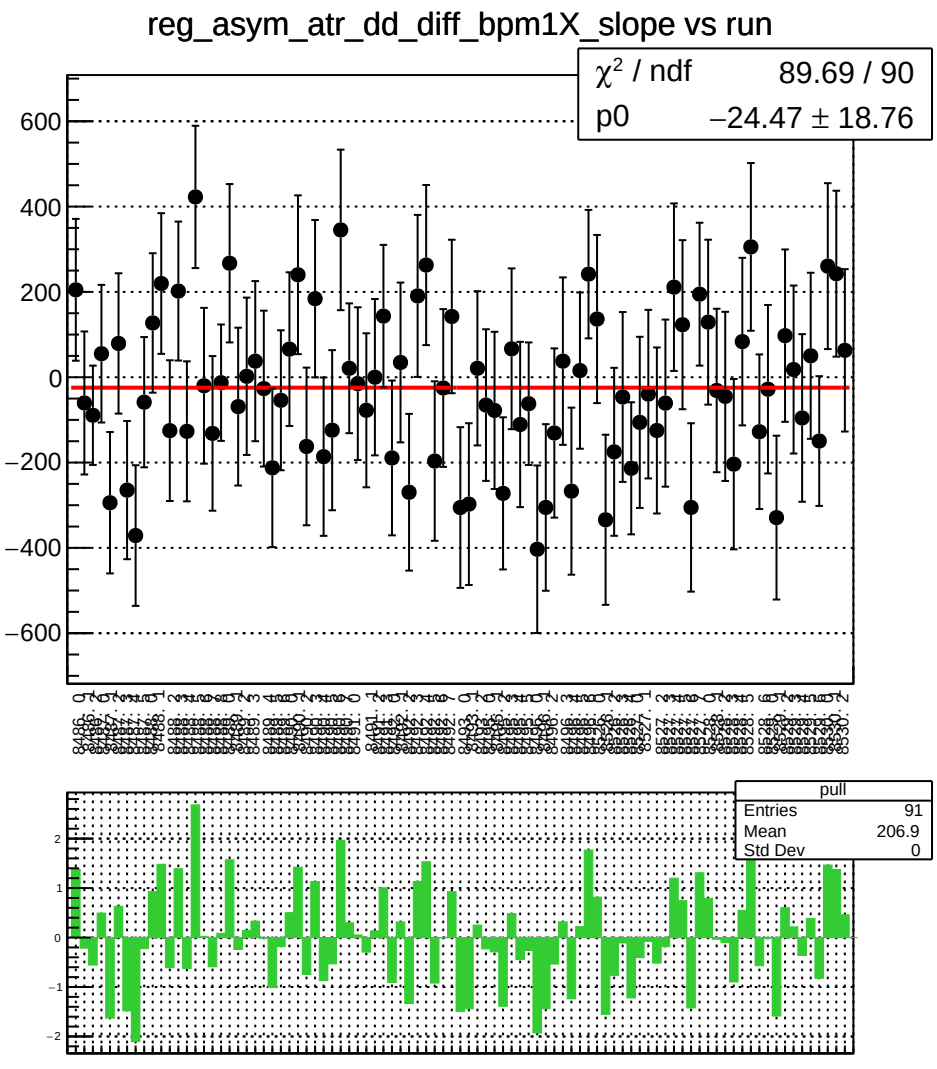

pull1D
Entries 91
Mean −0.0009218
Std Dev 1.027
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

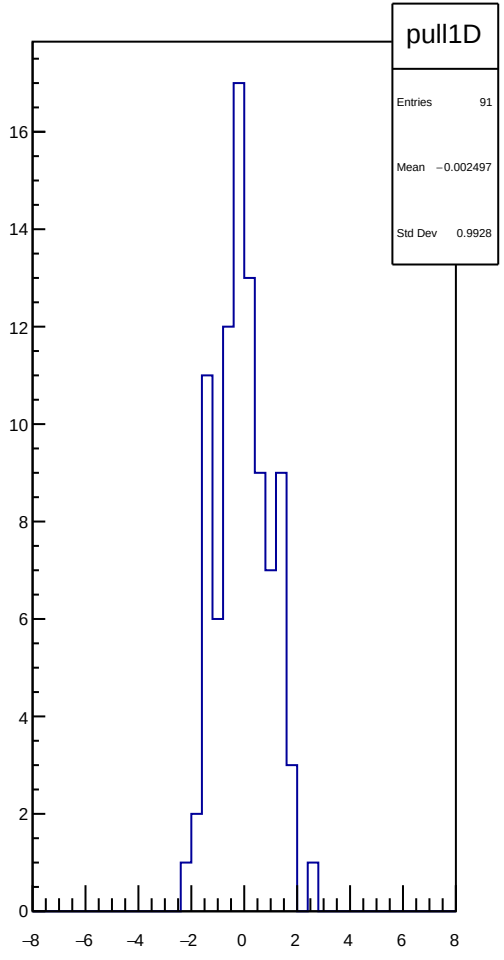

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 78.85 / 90
p0 −30.46 ± 31.88
1000
500
0
−500
−1000
pull
Entries 91
Mean 643.5
Std Dev 0
2
1
0
−1
−2

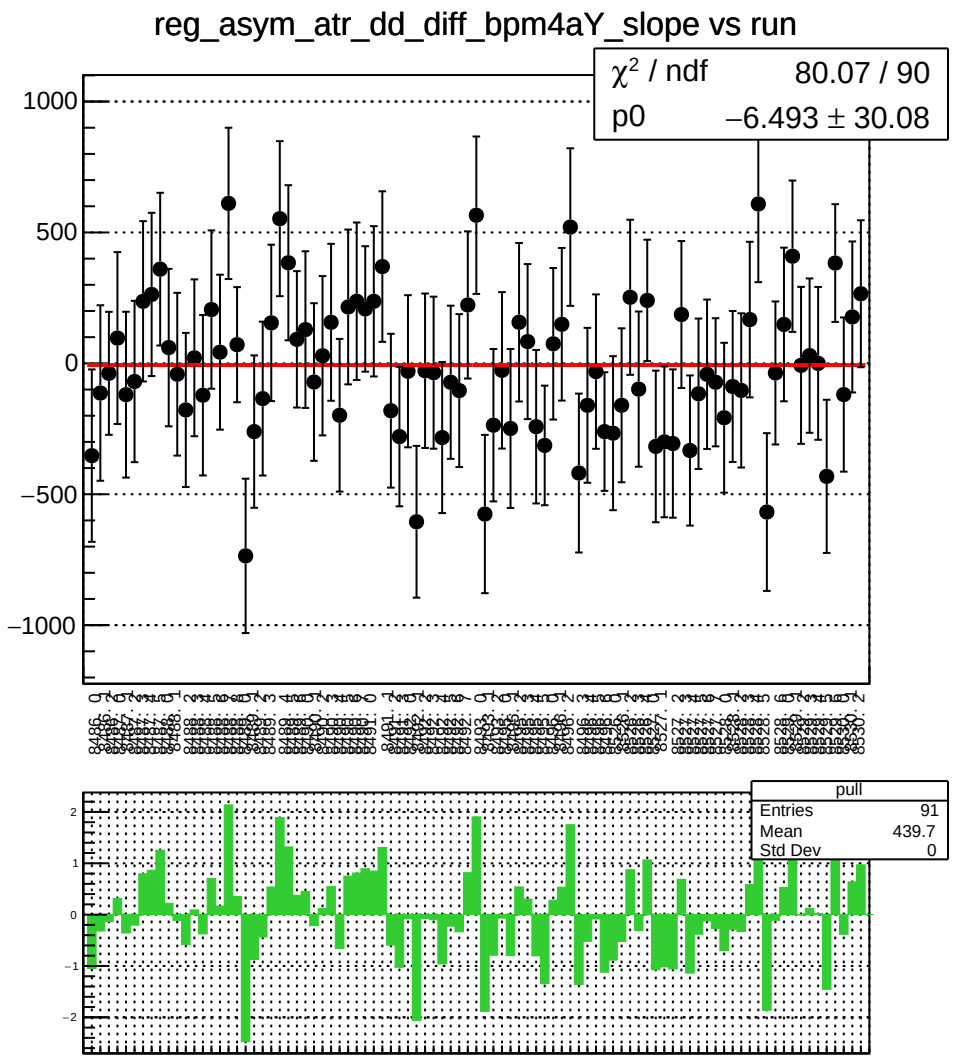

pull1D
Entries 91
Mean −0.005003
Std Dev 0.9308
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

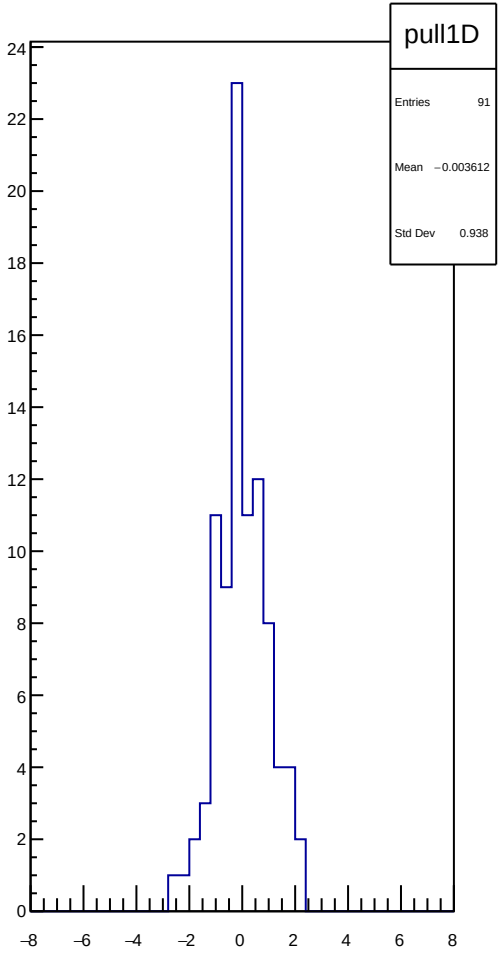

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 100.2 / 90
p0 −31.87 ± 1.905
pull
Entries 91
Mean −221.1
Std Dev 0

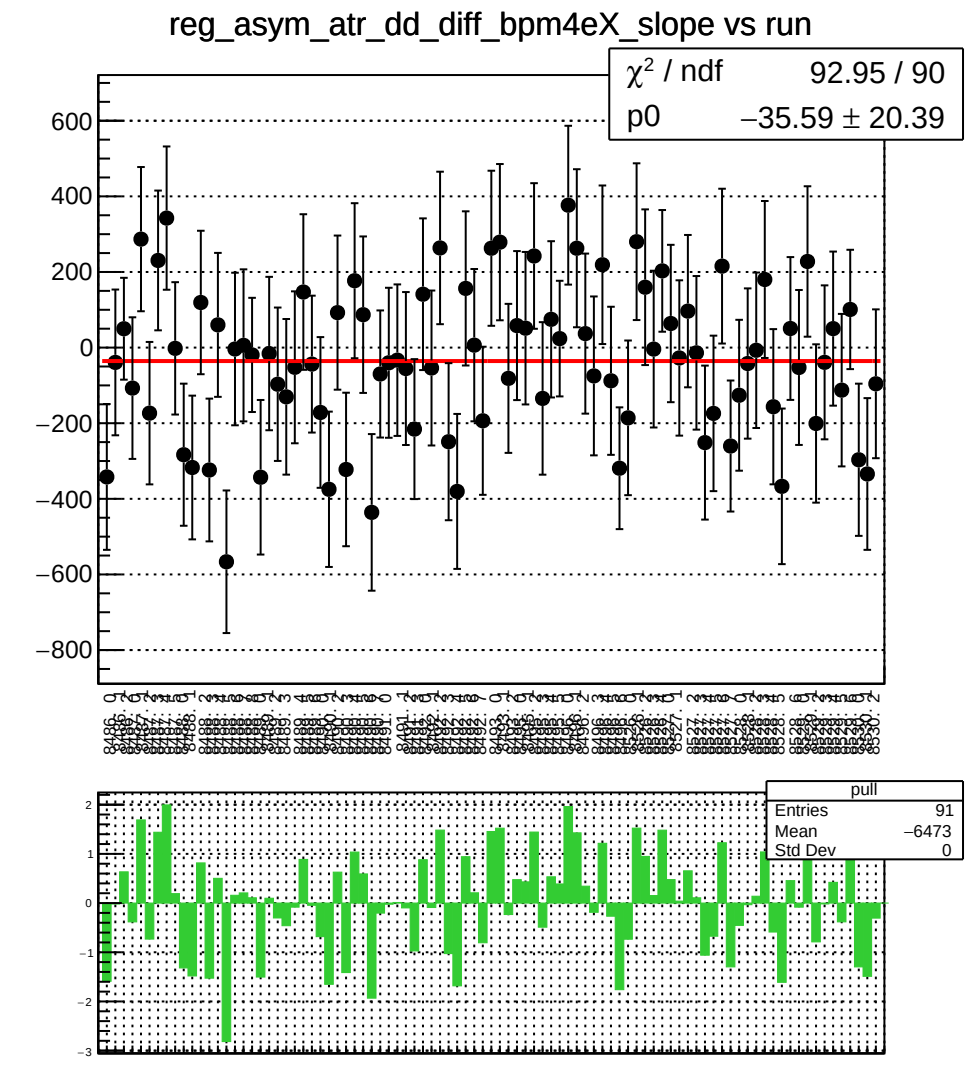

pull1D
Entries 91
Mean 0.0222
Std Dev 1.049

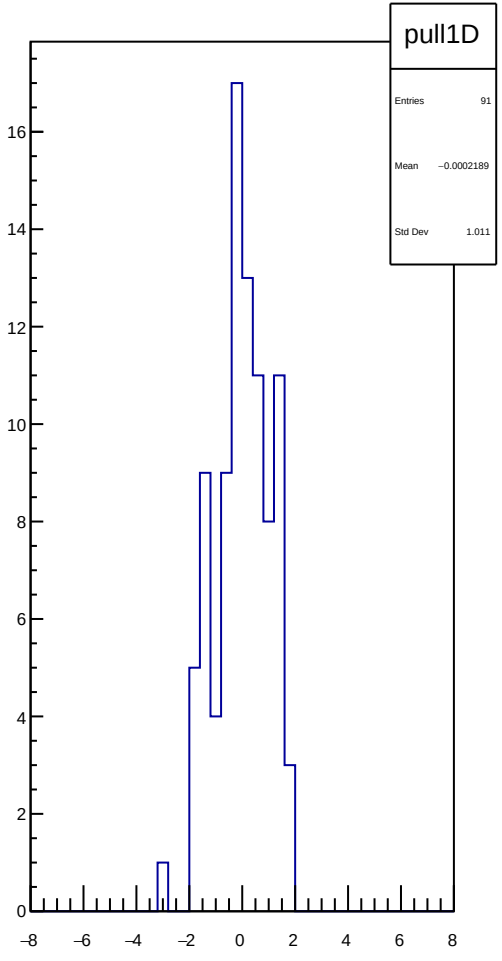

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ^2 / ndf 89.69 / 90
p0 −24.47 ± 18.76
600
400
200
0
−200
−400
−600
pull
Entries 91
Mean 206.9
Std Dev 0
2
1
0
−1
−2

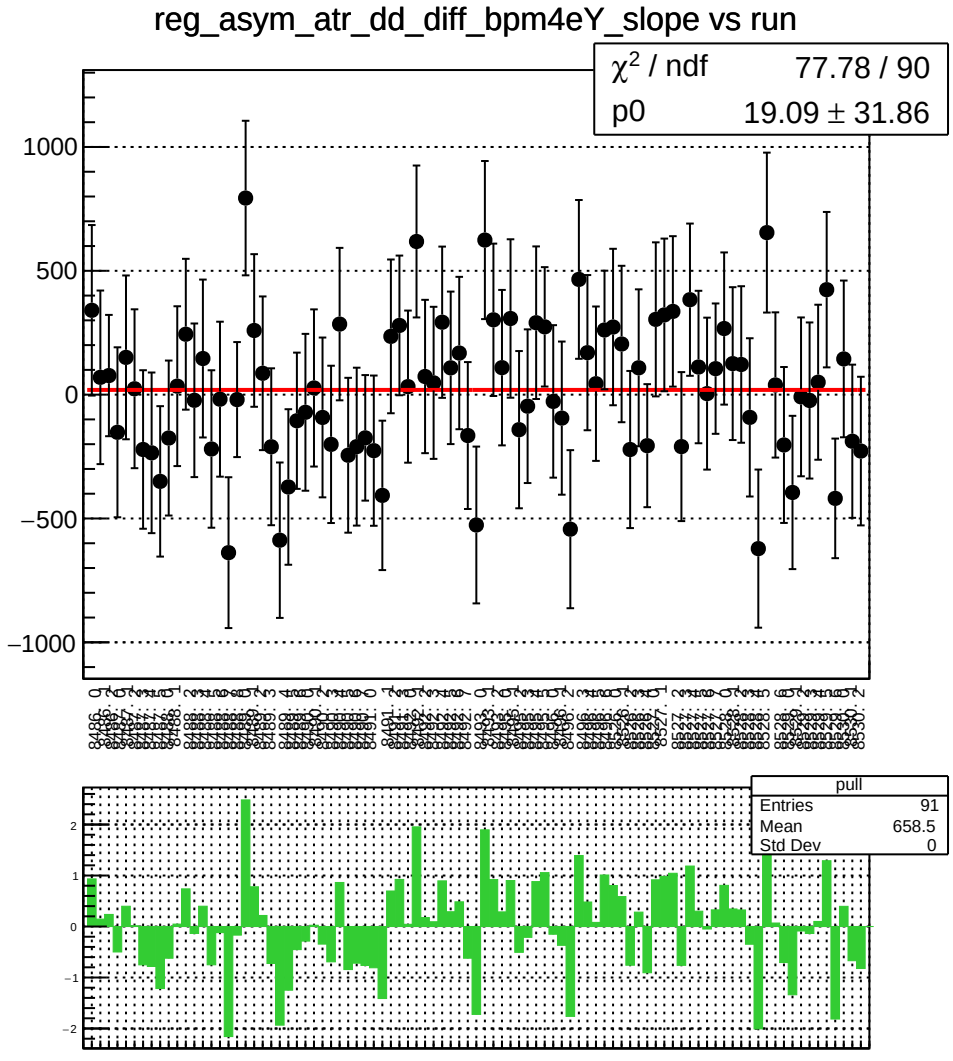

pull1D
Entries 91
Mean −0.002497
Std Dev 0.9928
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

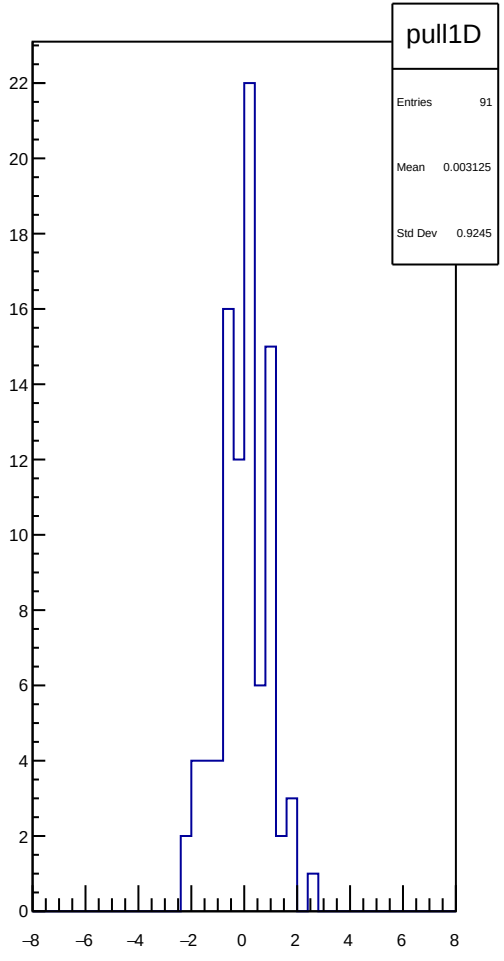

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 80.07 / 90
p0 −6.493 ± 30.08
1000
500
0
−500
−1000
pull
Entries 91
Mean 439.7
Std Dev 0
2
1
0
−1
−2

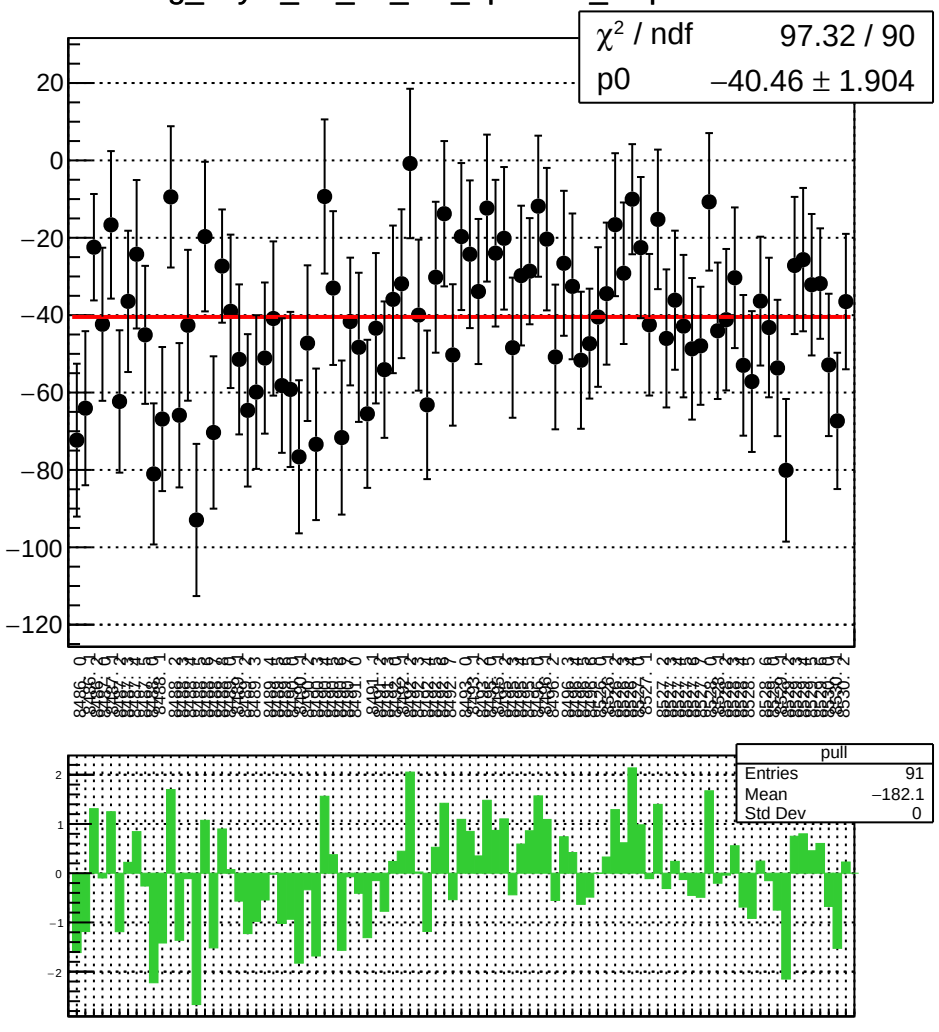

pull1D
Entries 91
Mean −0.003612
Std Dev 0.938
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

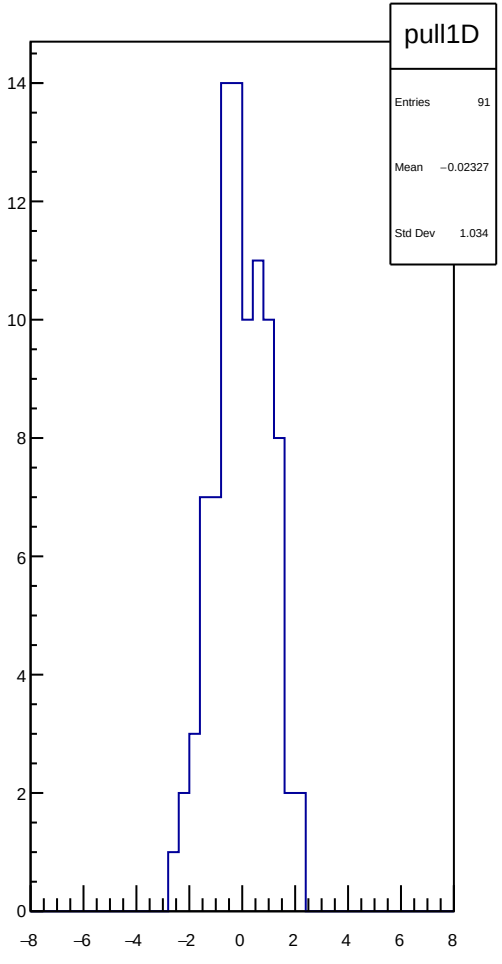

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 92.95 / 90
p0 −35.59 ± 20.39
pull
Entries 91
Mean −6473
Std Dev 0

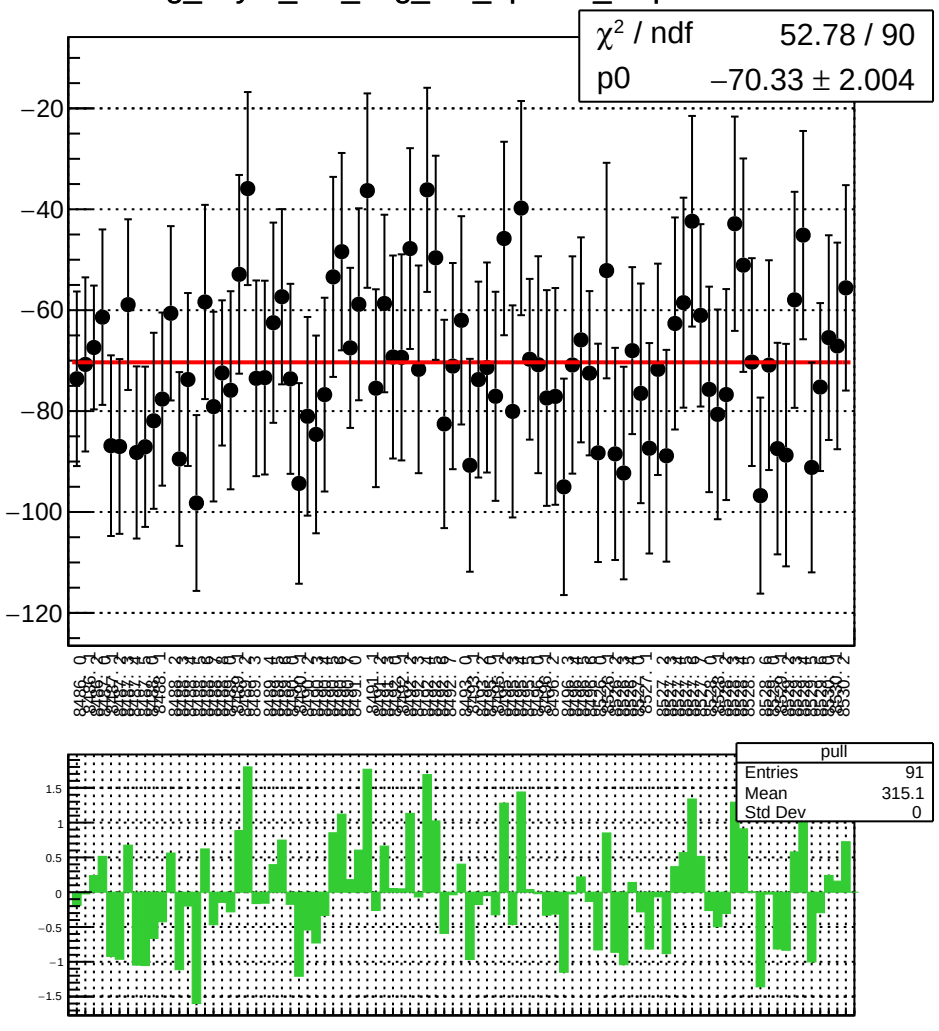

pull1D
Entries 91
Mean −0.0002189
Std Dev 1.011

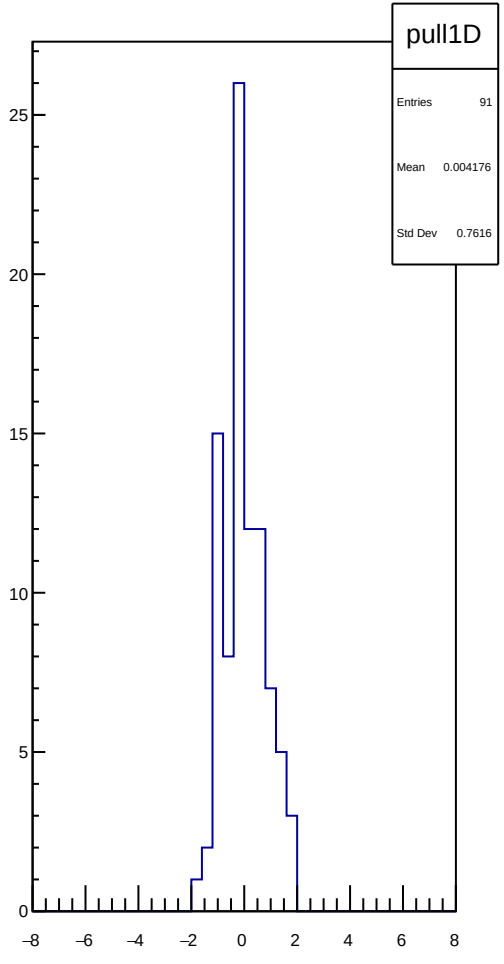

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 77.78 / 90
p0 19.09 ± 31.86
1000
500
0
−500
−1000
pull
Entries 91
Mean 658.5
Std Dev 0
2
1
0
−1
−2

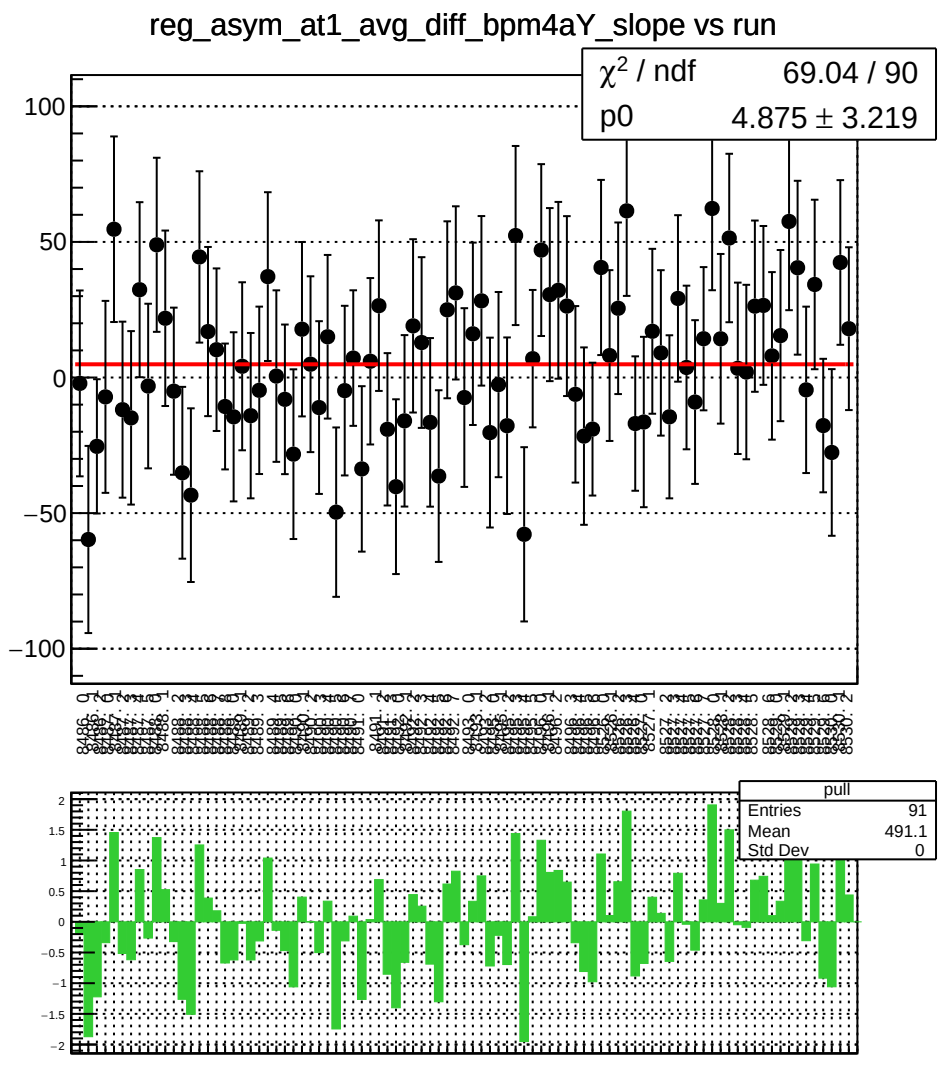

pull1D
Entries 91
Mean 0.003125
Std Dev 0.9245
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

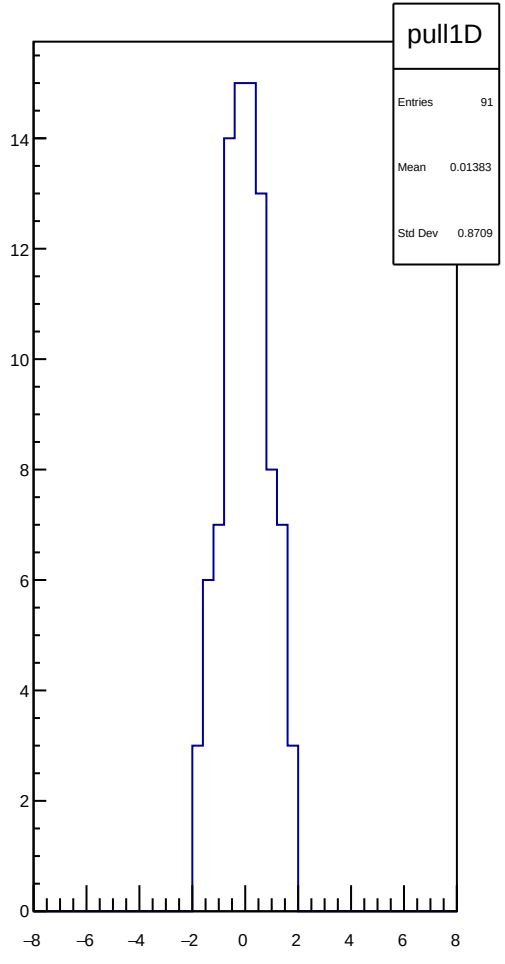

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 97.32 / 90
p0 −40.46 ± 1.904
pull
Entries 91
Mean −182.1
Std Dev 0

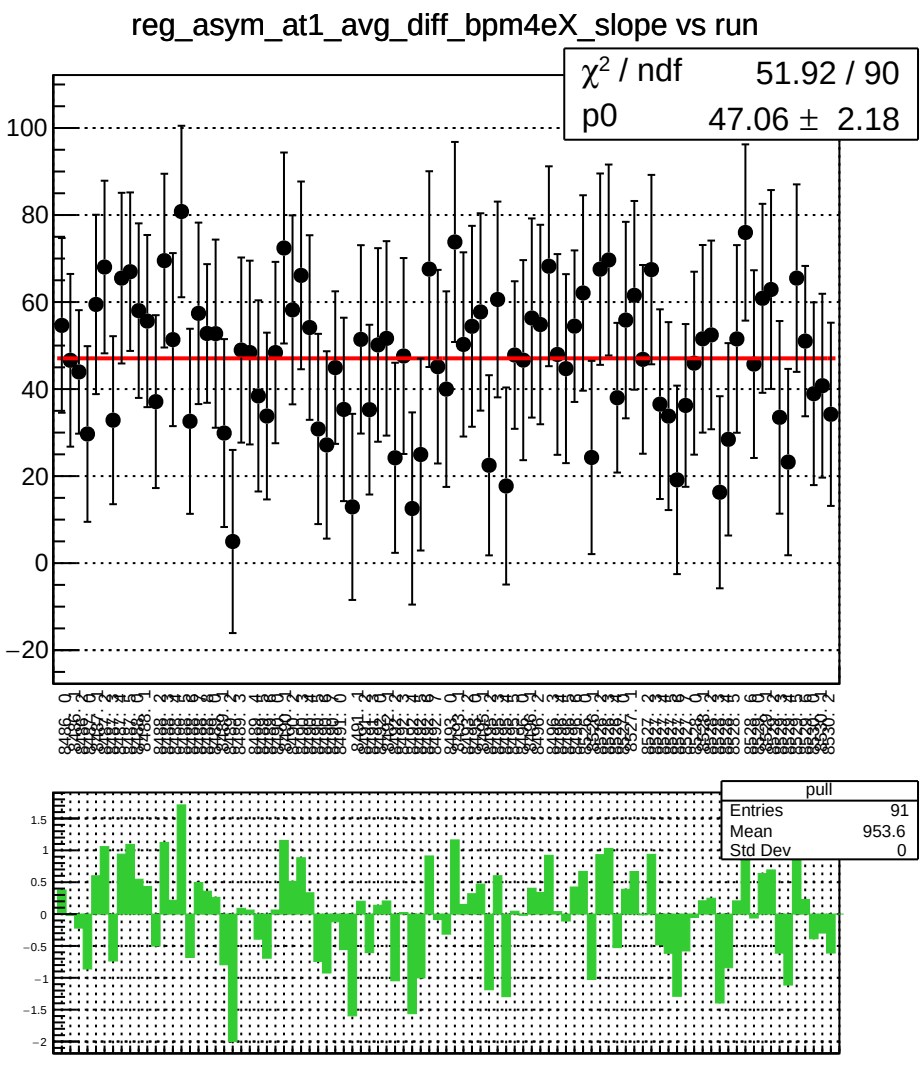

pull1D
Entries 91
Mean −0.02327
Std Dev 1.034

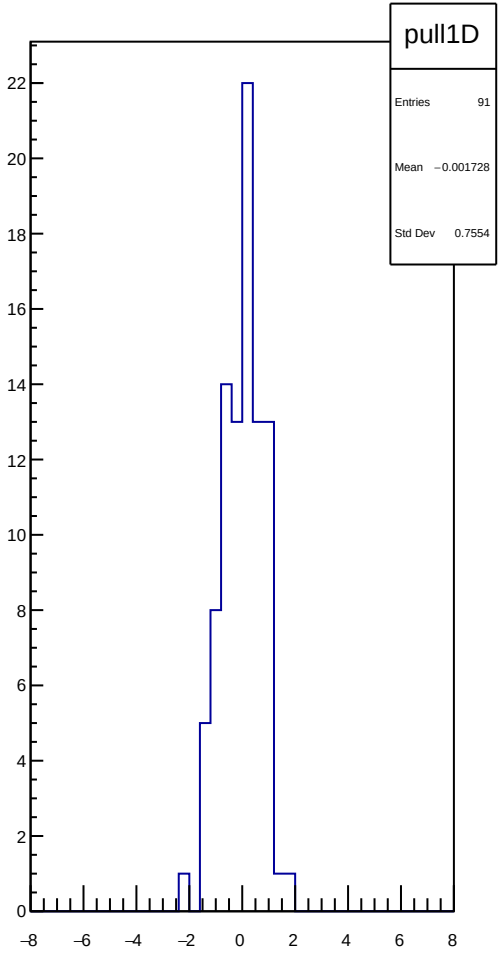

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 52.78 / 90
p0 −70.33 ± 2.004
−20
−40
−60
−80
−100
−120
pull
Entries 91
Mean 315.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

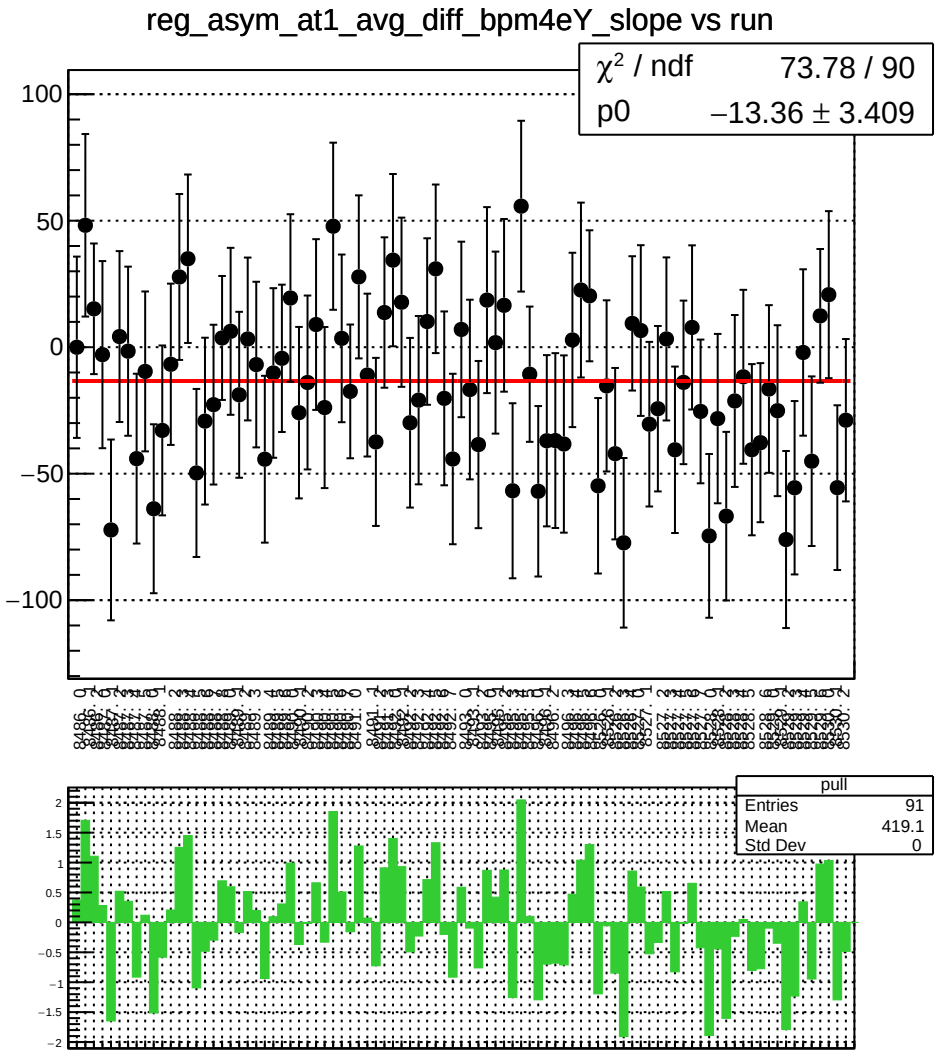

pull1D
Entries 91
Mean 0.004176
Std Dev 0.7616
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

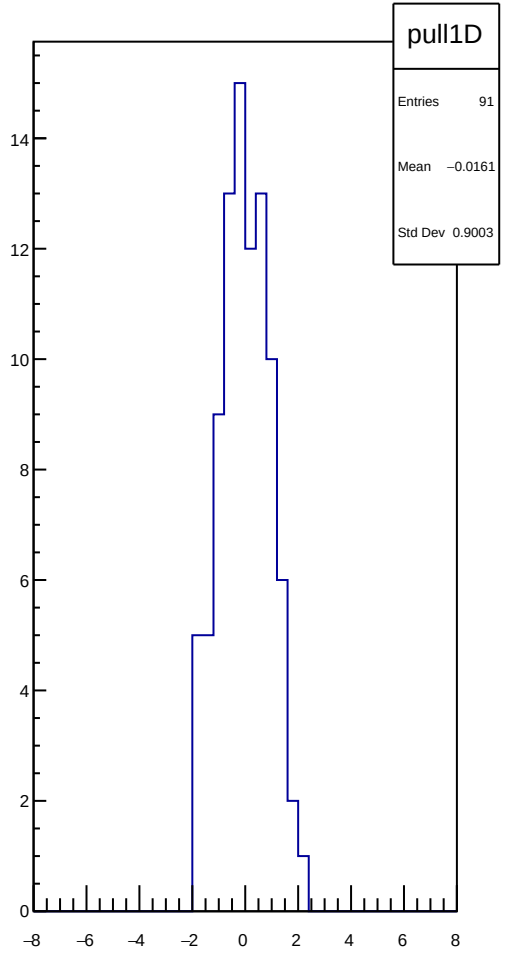

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 69.04 / 90
p0 4.875 ± 3.219
100
50
0
−50
−100
pull
Entries 91
Mean 491.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

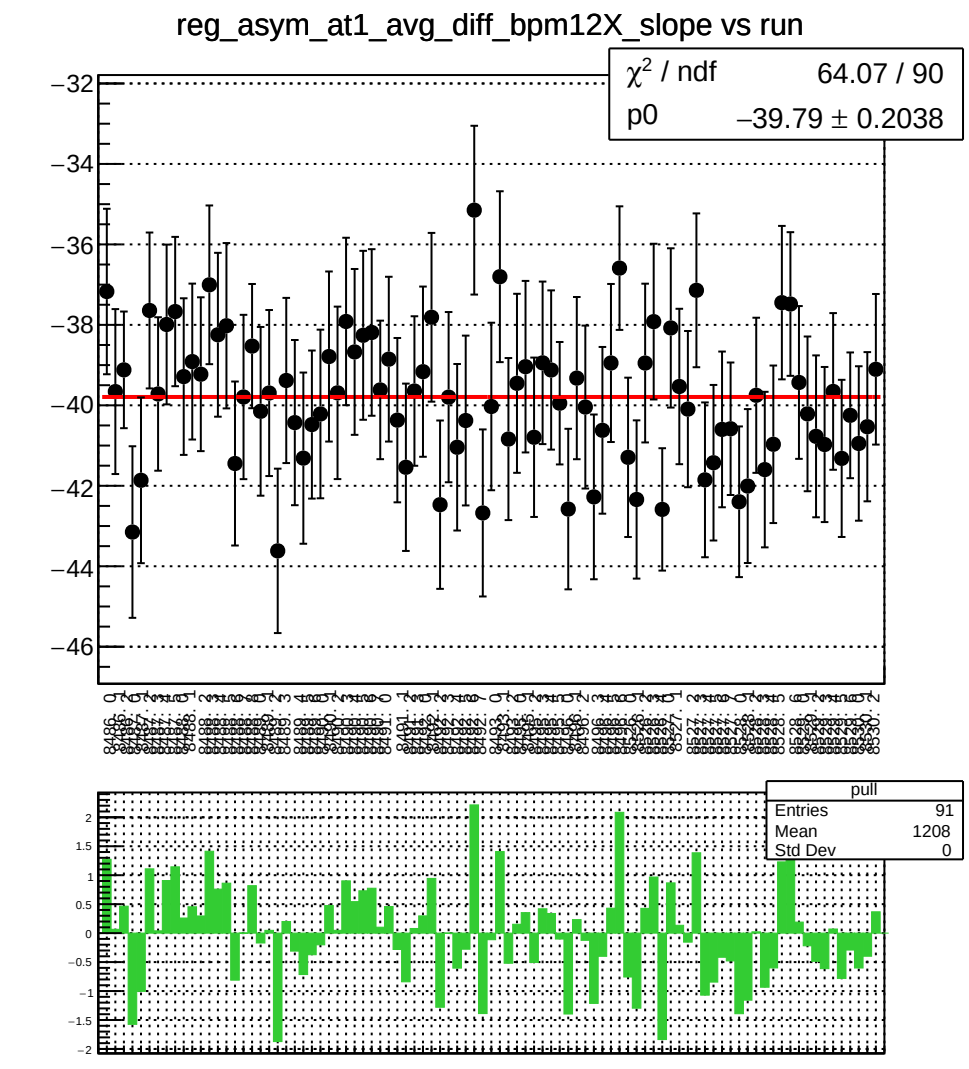

pull1D
Entries 91
Mean 0.01383
Std Dev 0.8709
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

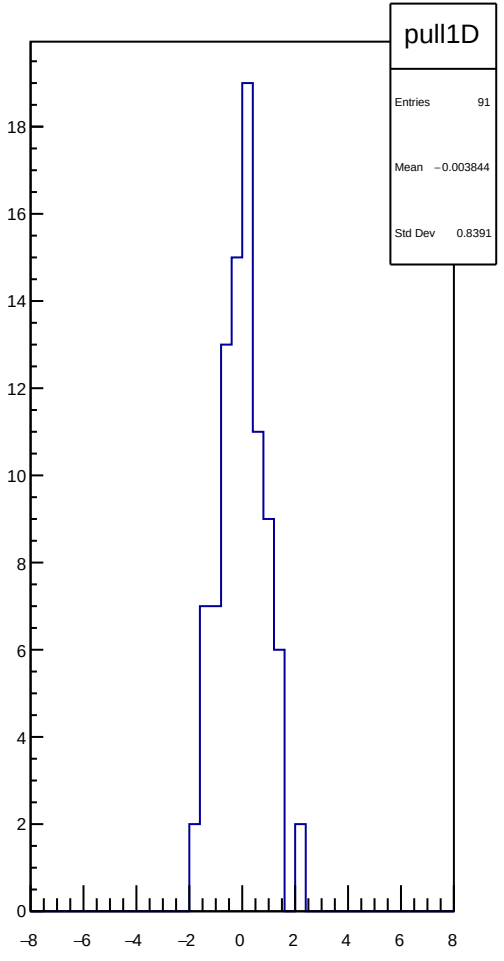

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 51.92 / 90
p0 47.06 ± 2.18
pull
Entries 91
Mean 953.6
Std Dev 0

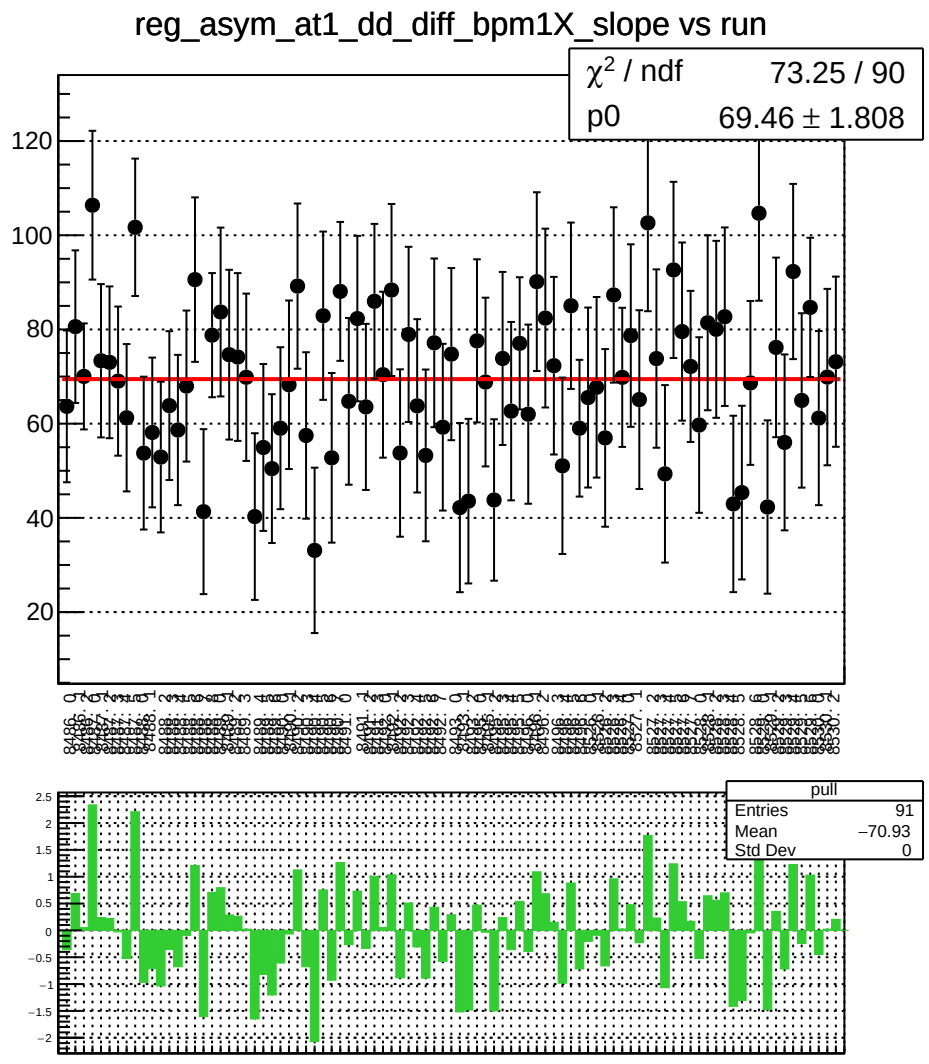

pull1D
Entries 91
Mean −0.001728
Std Dev 0.7554

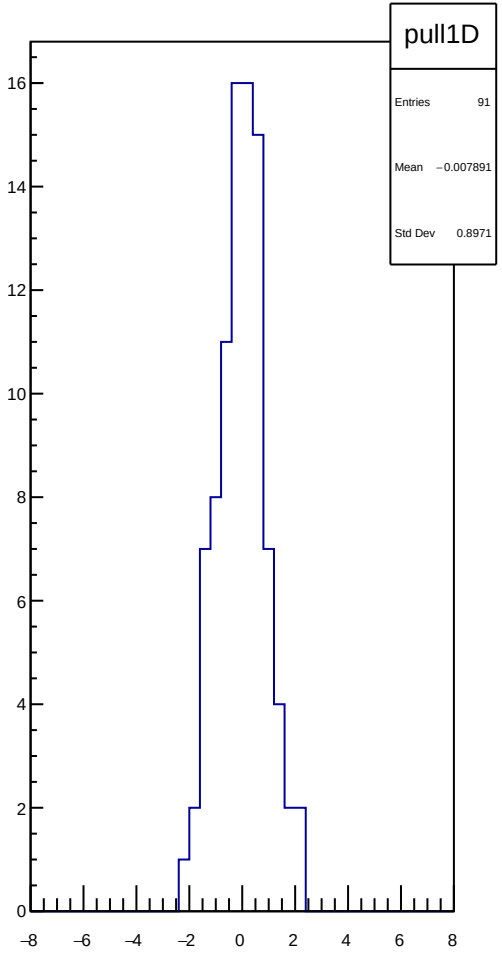

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 73.78 / 90
p0 −13.36 ± 3.409
100
50
0
−50
−100
pull
Entries 91
Mean 419.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

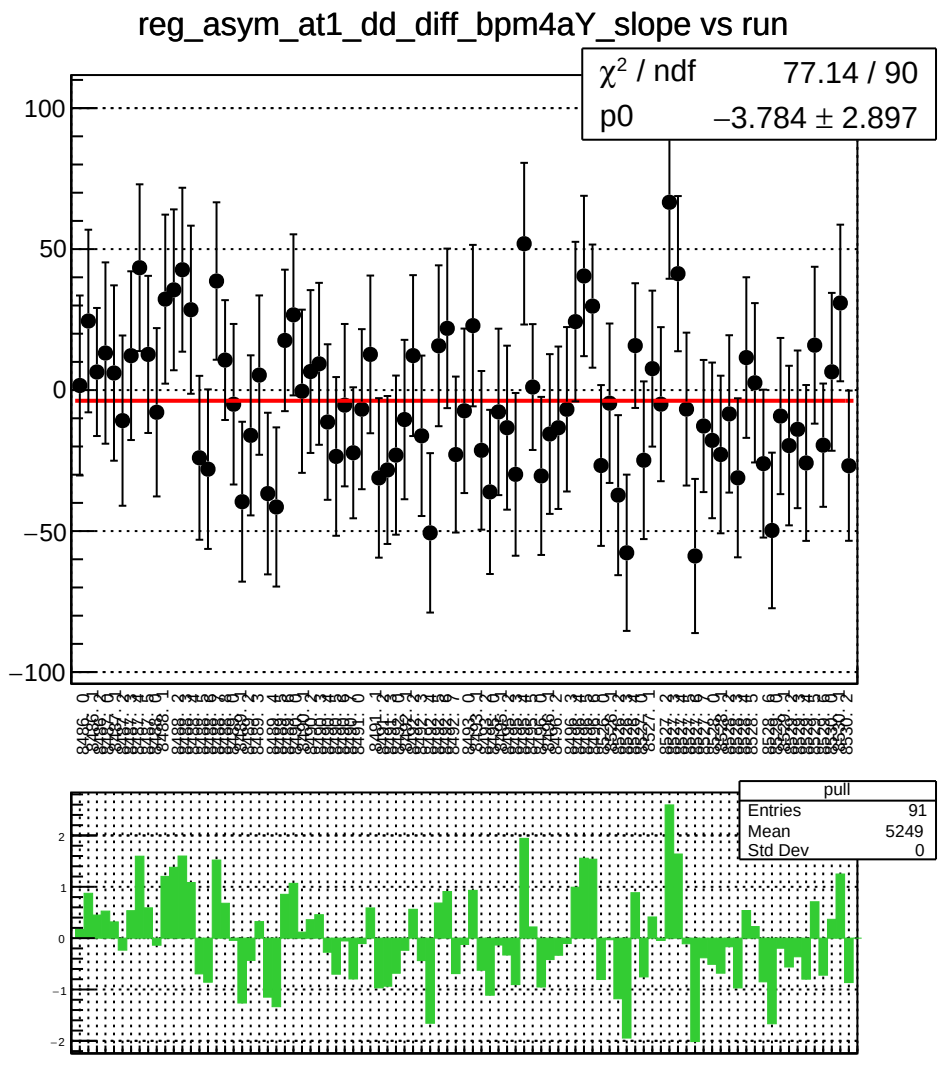

pull1D
Entries 91
Mean −0.0161
Std Dev 0.9003
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

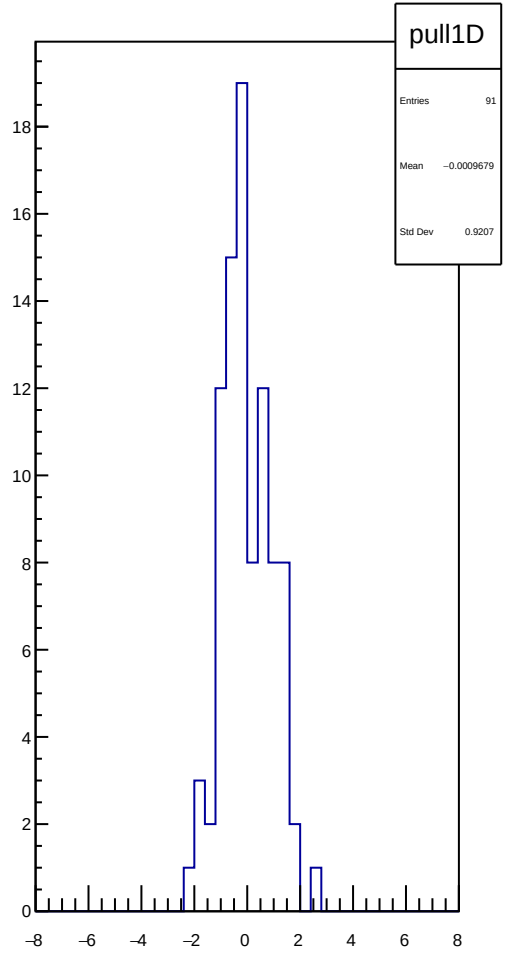

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 64.07 / 90
p0 −39.79 ± 0.2038
pull
Entries 91
Mean 1208
Std Dev 0

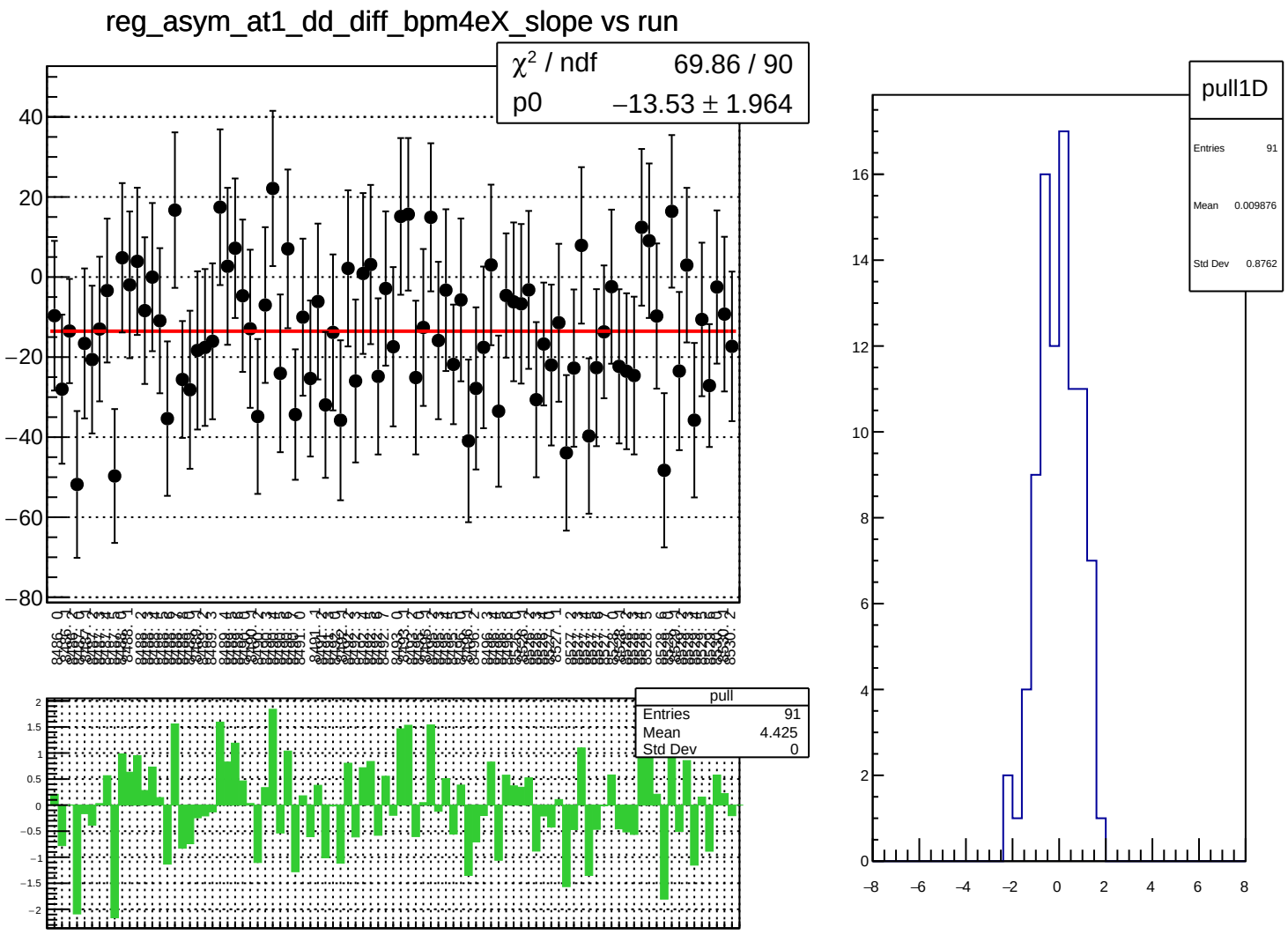

pull1D
Entries 91
Mean −0.003844
Std Dev 0.8391

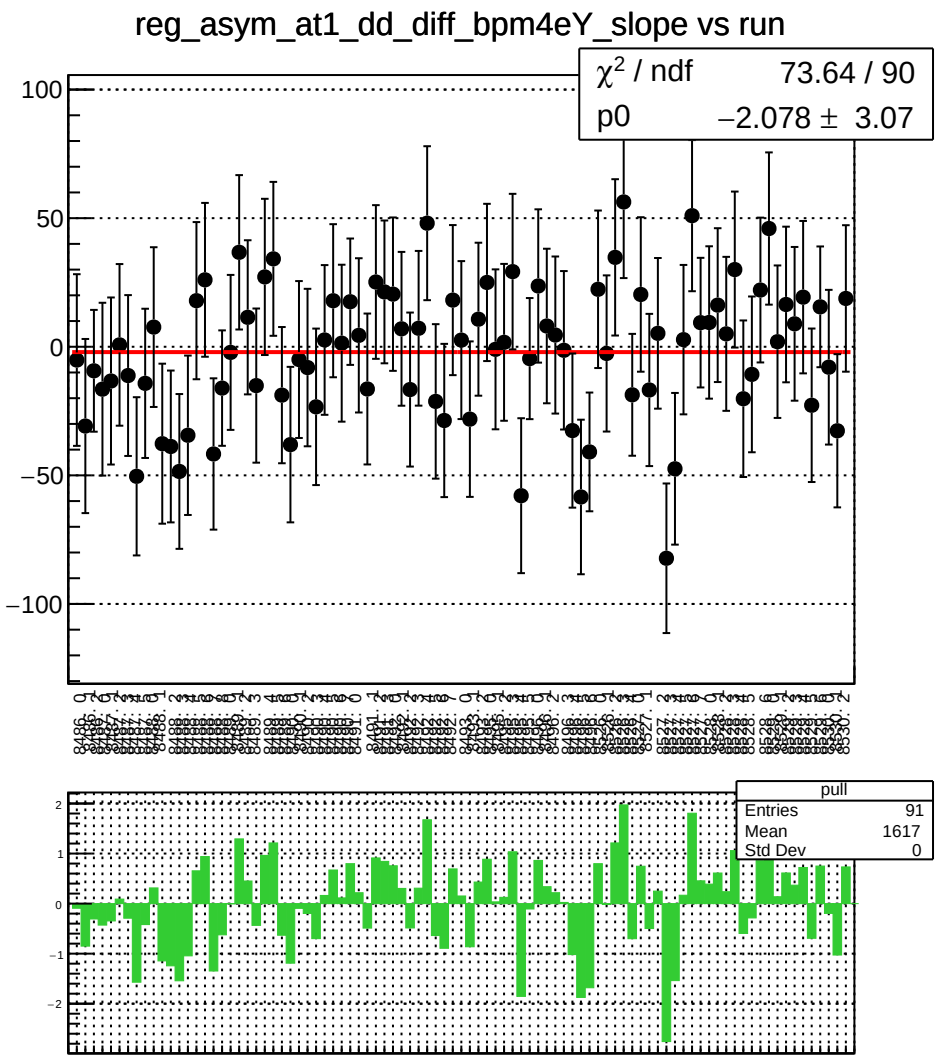

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ^2 / ndf 73.25 / 90
p0 69.46 ± 1.808
120
100
80
60
40
20
pull
Entries 91
Mean −70.93
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

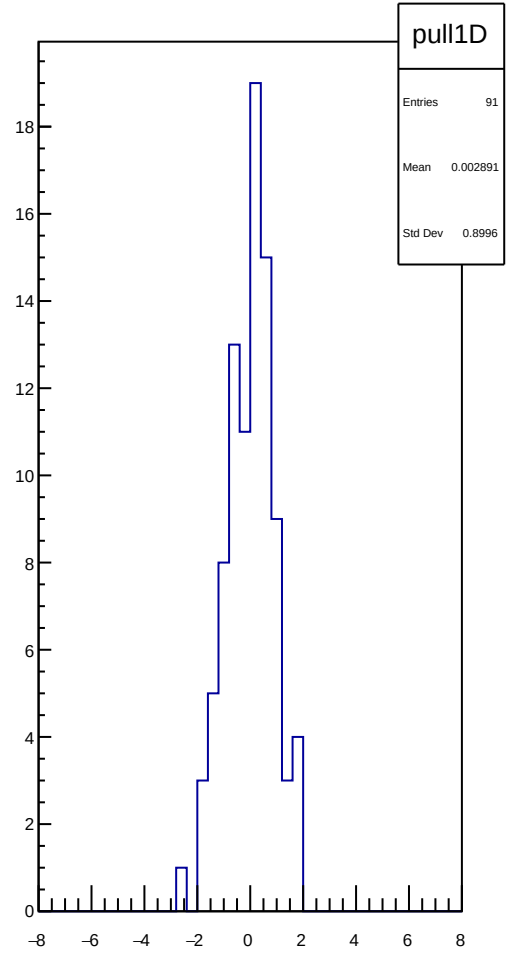

pull1D
Entries 91
Mean −0.007891
Std Dev 0.8971
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

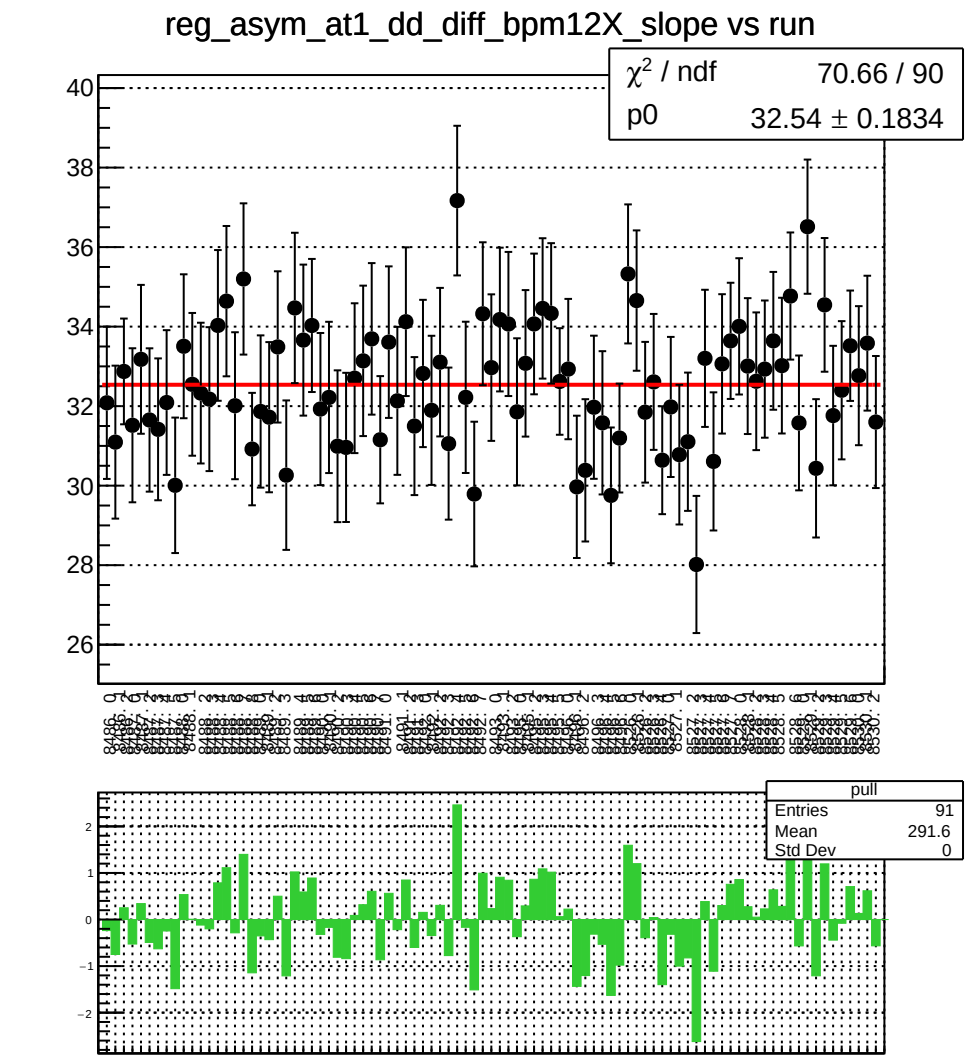

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 77.14 / 90
p0 −3.784 ± 2.897
100
50
0
−50
−100
pull
Entries 91
Mean 5249
Std Dev 0
2
1
0
−1
−2

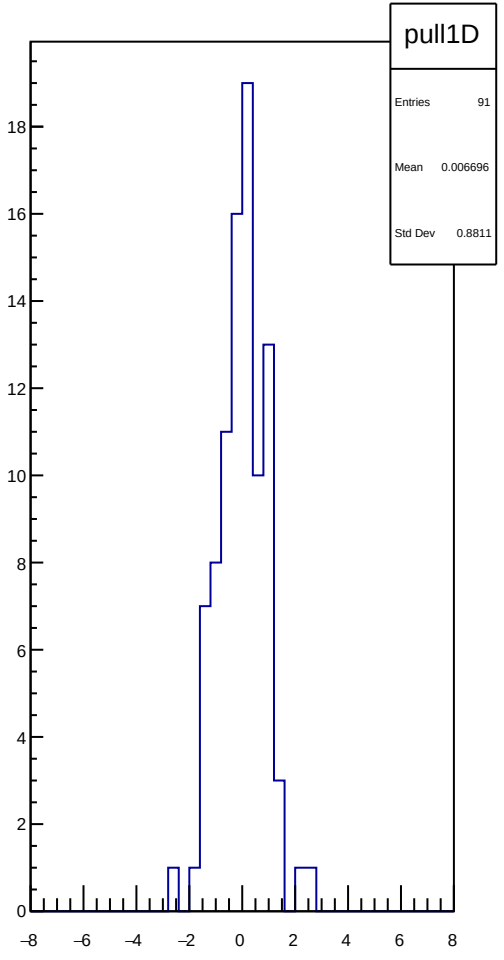

pull1D
Entries 91
Mean −0.0009679
Std Dev 0.9207
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

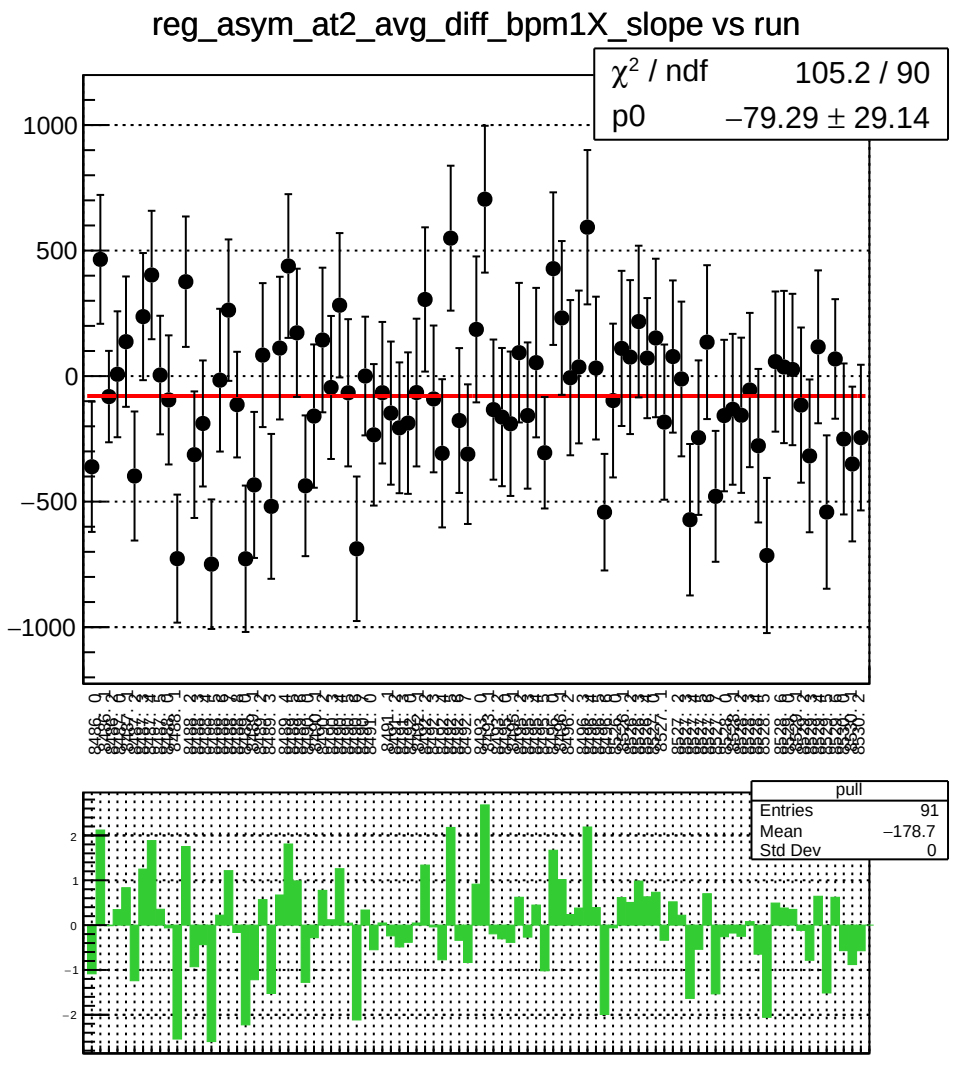

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 69.86 / 90
p0 −13.53 ± 1.964
pull
Entries 91
Mean 4.425
Std Dev 0
pull1D
Entries 91
Mean 0.009876
Std Dev 0.8762

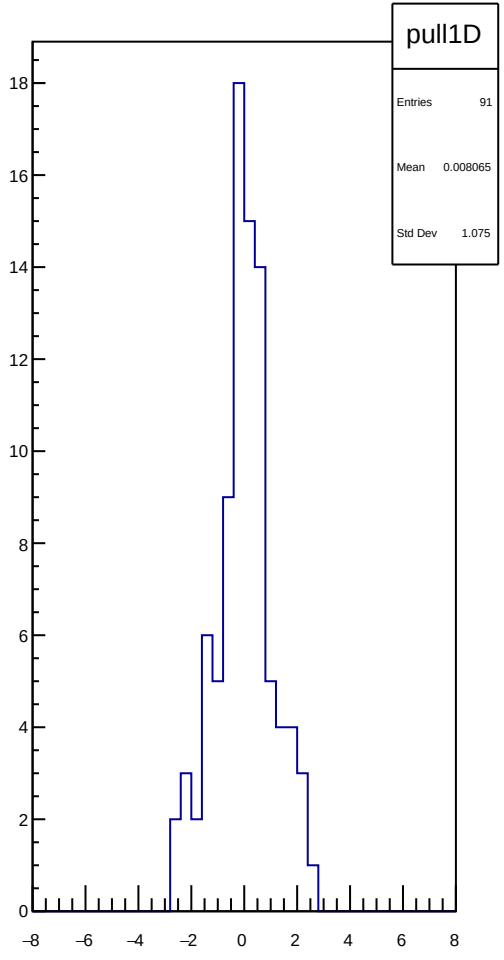

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 73.64 / 90
p0 −2.078 ± 3.07
100
50
0
−50
−100
pull
Entries 91
Mean 1617
Std Dev 0
2
1
0
−1
−2

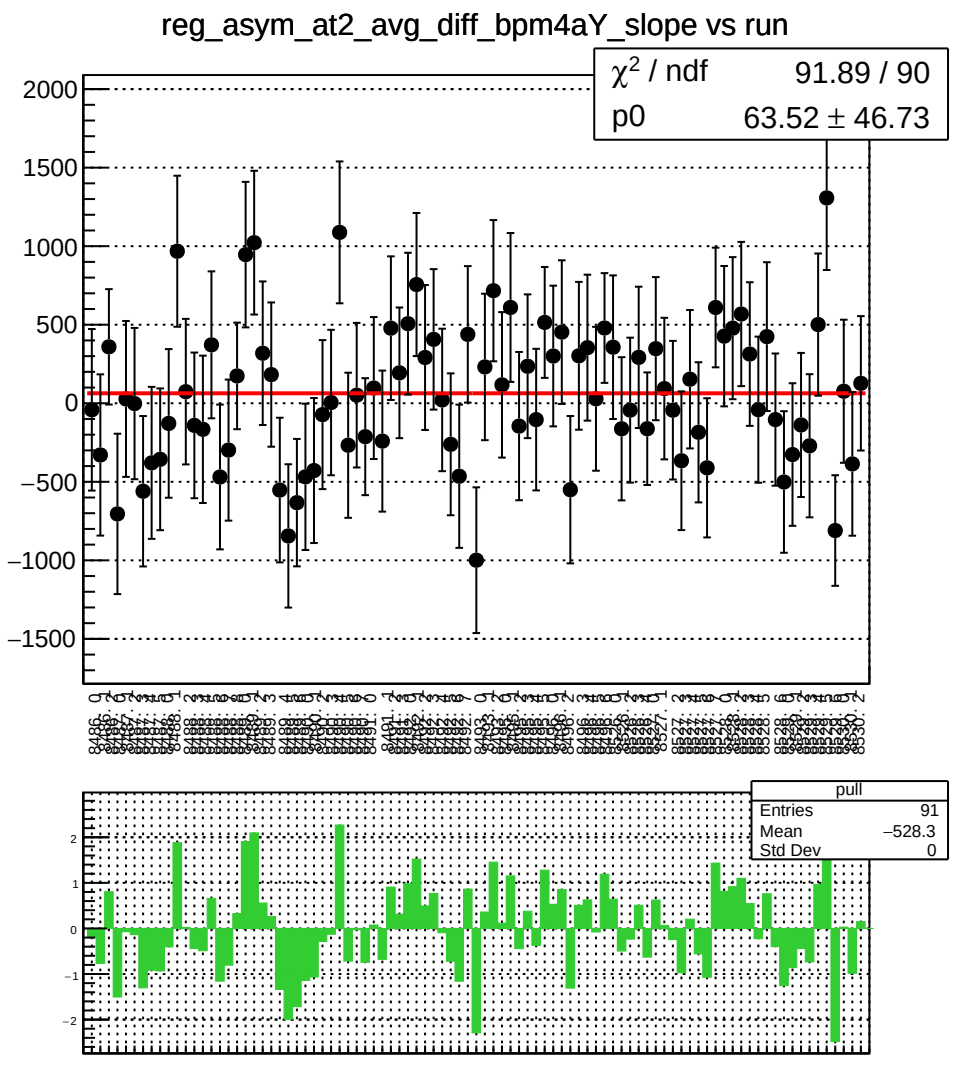

pull1D
Entries 91
Mean 0.002891
Std Dev 0.8996
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

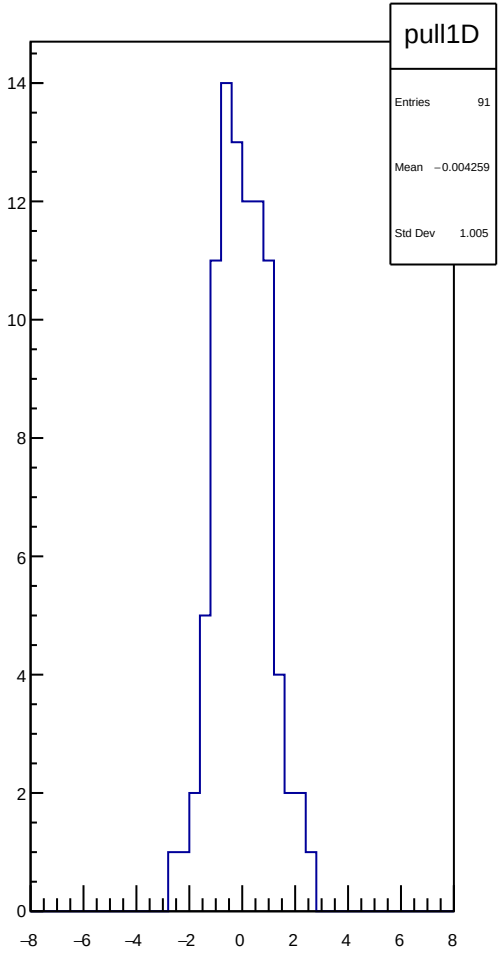

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 70.66 / 90
p0 32.54 ± 0.1834
pull
Entries 91
Mean 291.6
Std Dev 0

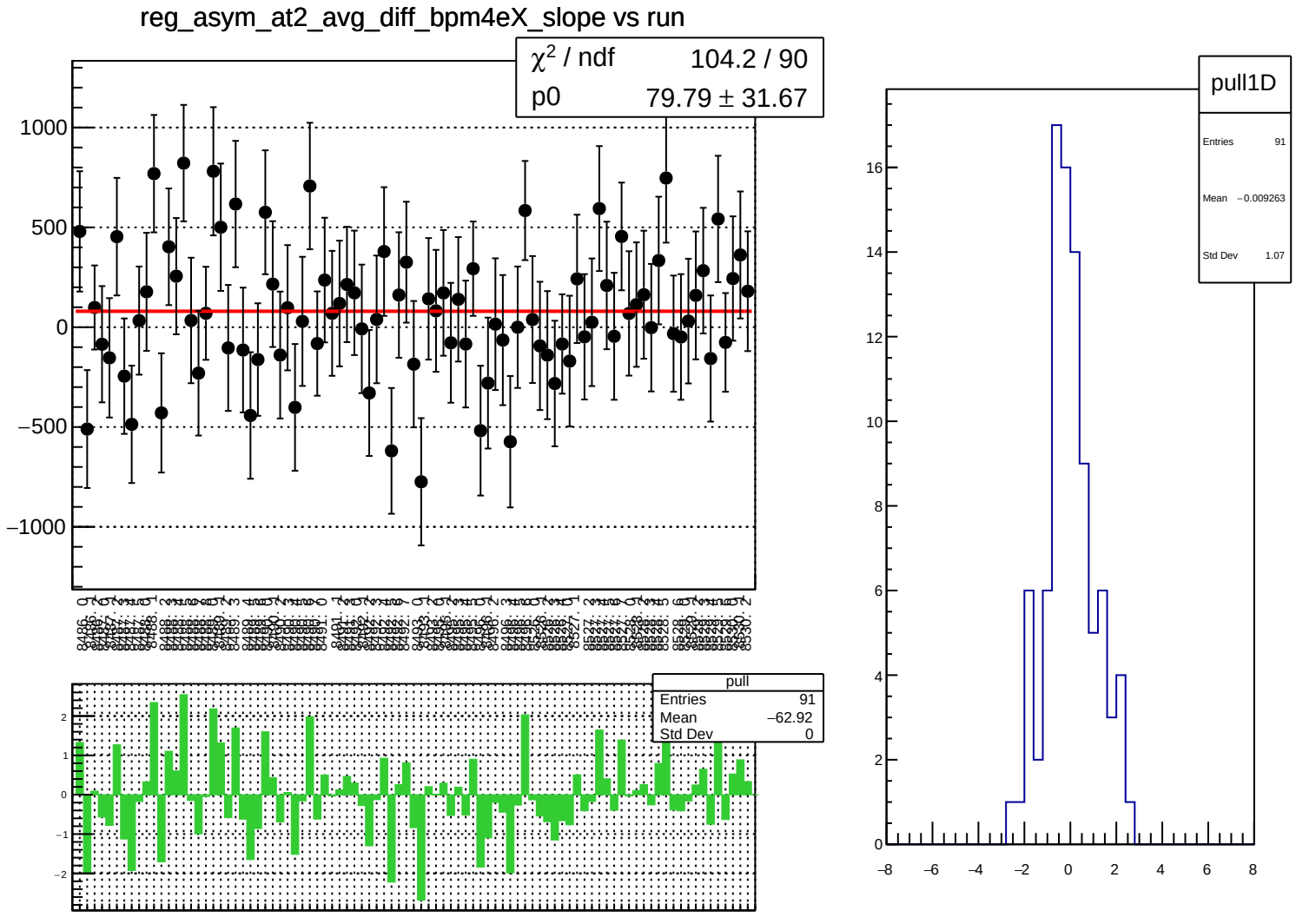

pull1D
Entries 91
Mean 0.006696
Std Dev 0.8811

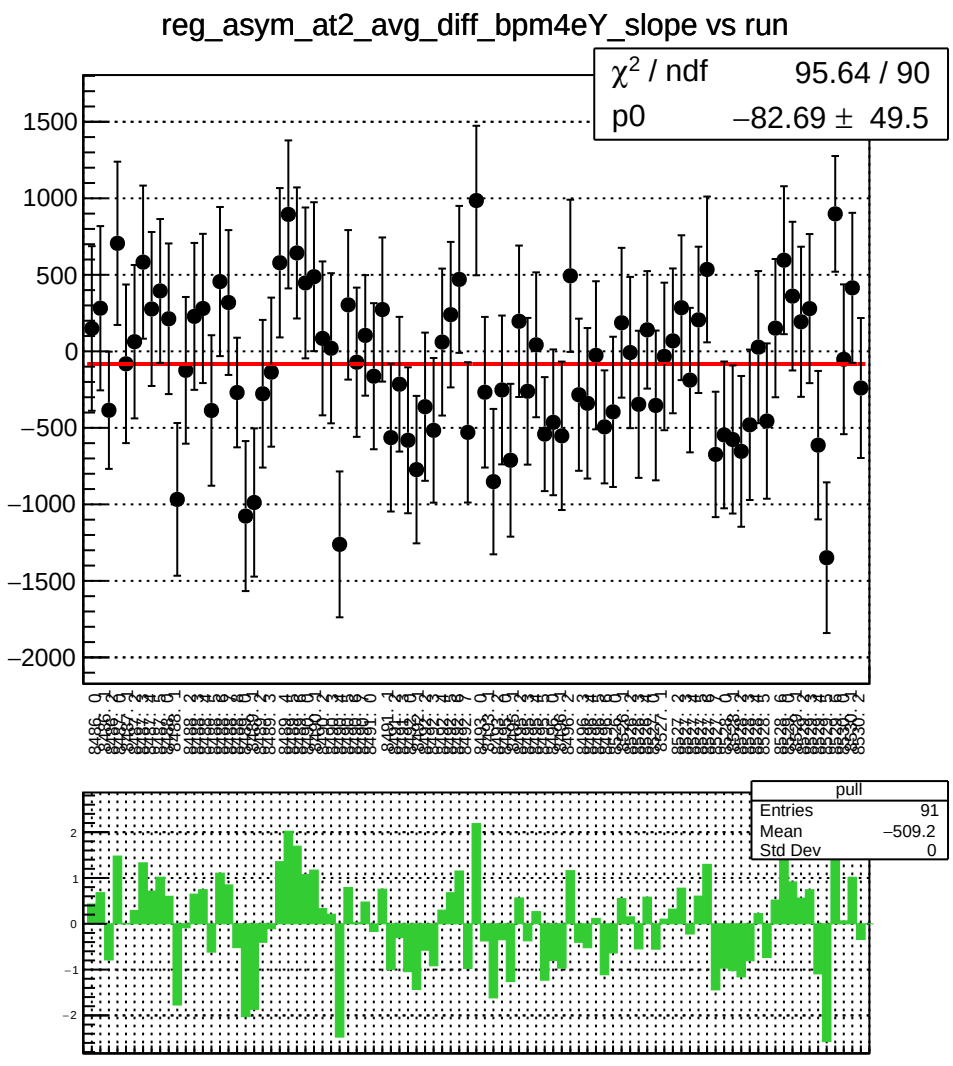

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 105.2 / 90
p0 −79.29 ± 29.14
1000
500
0
−500
−1000
pull
Entries 91
Mean −178.7
Std Dev 0
2
1
0
−1
−2

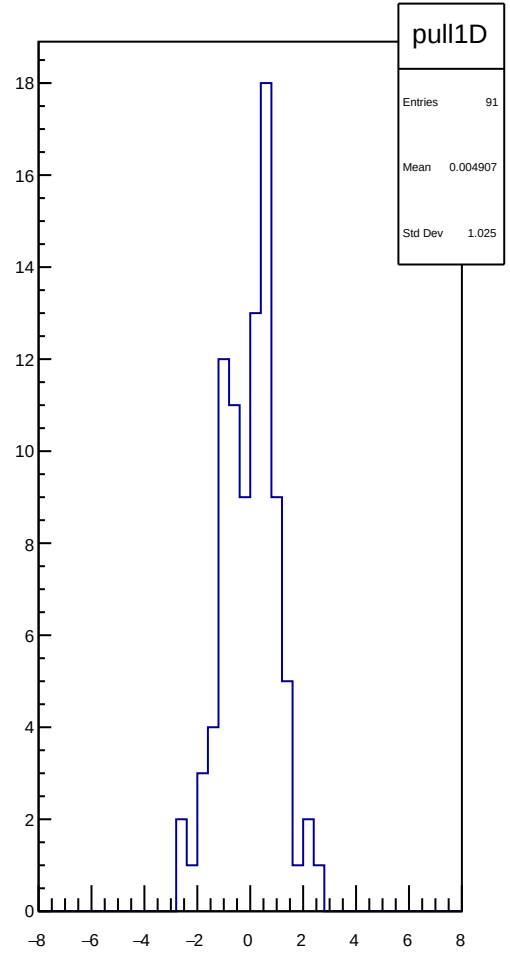

pull1D
Entries 91
Mean 0.008065
Std Dev 1.075
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

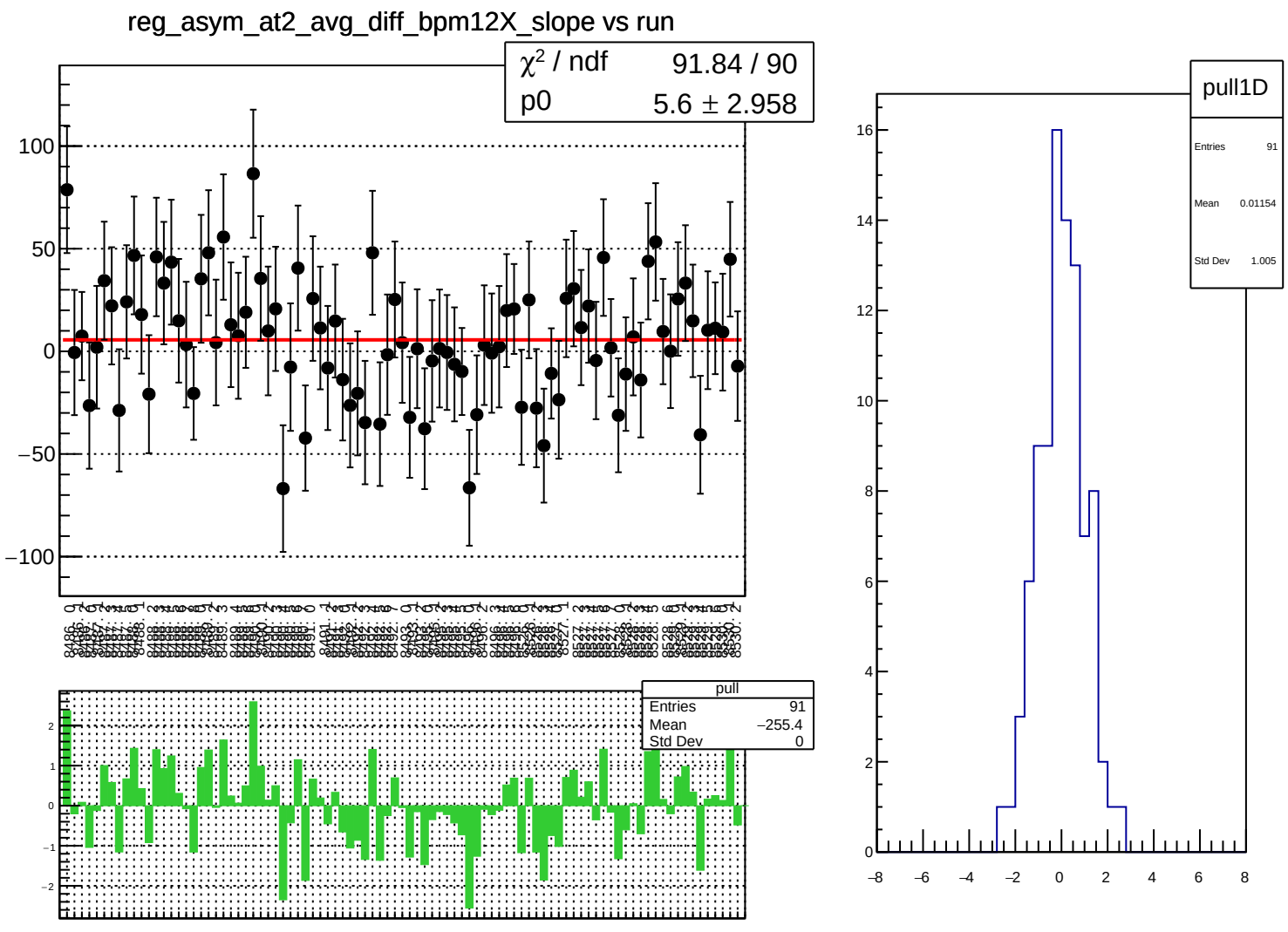

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 91.89 / 90
p0 63.52 ± 46.73
2000
1500
1000
500
0
−500
−1000
−1500
pull
Entries 91
Mean −528.3
Std Dev 0
2
1
0
−1
−2

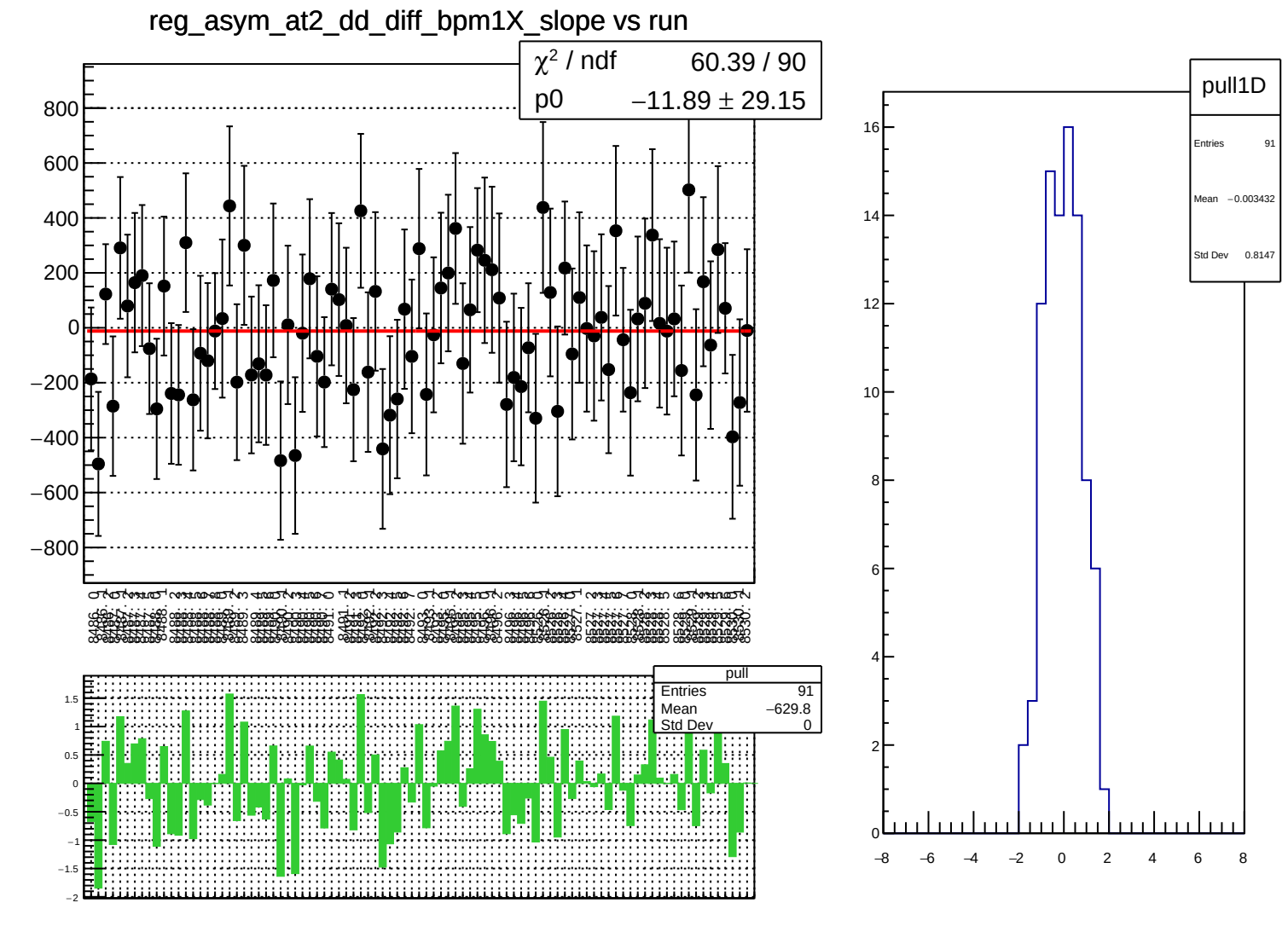

pull1D
Entries 91
Mean −0.004259
Std Dev 1.005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

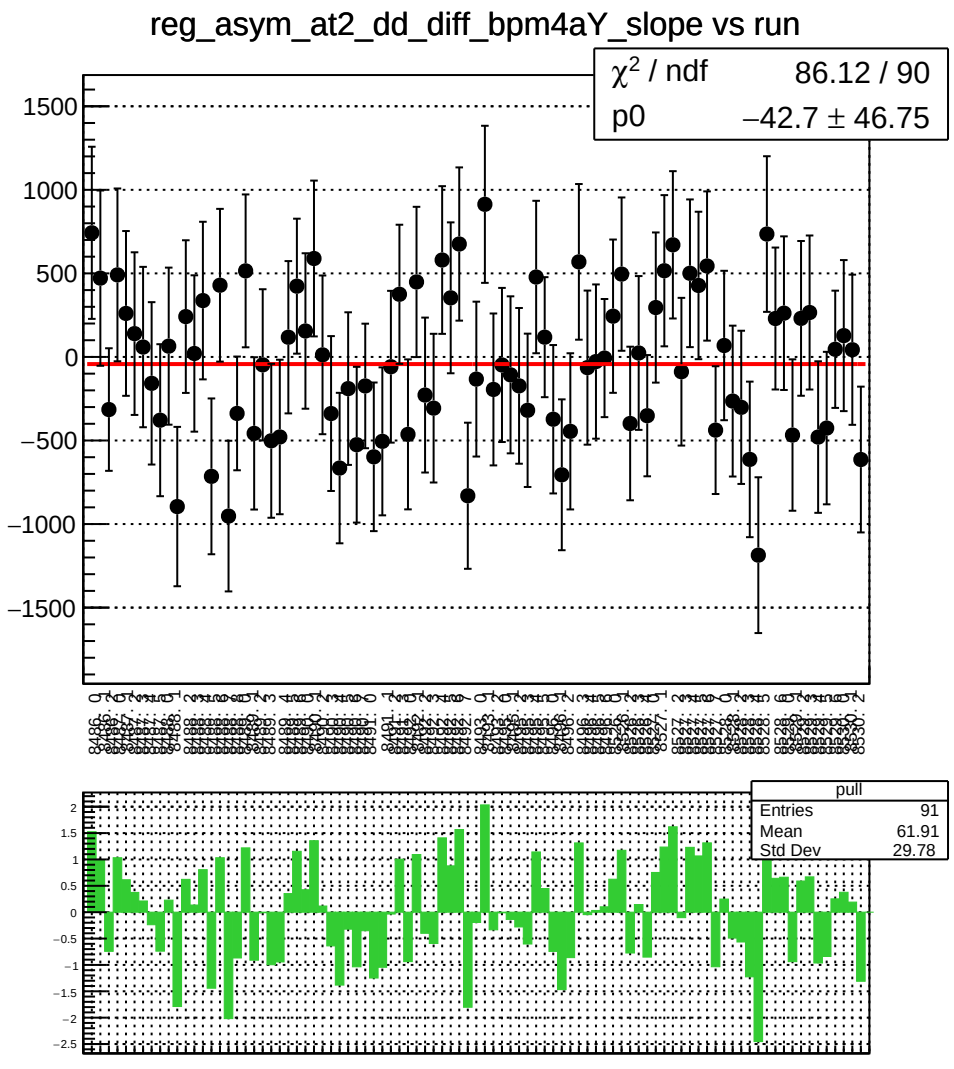

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 104.2 / 90
p0 79.79 ± 31.67
1000
500
0
−500
−1000
pull
Entries 91
Mean −62.92
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.009263
Std Dev 1.07
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

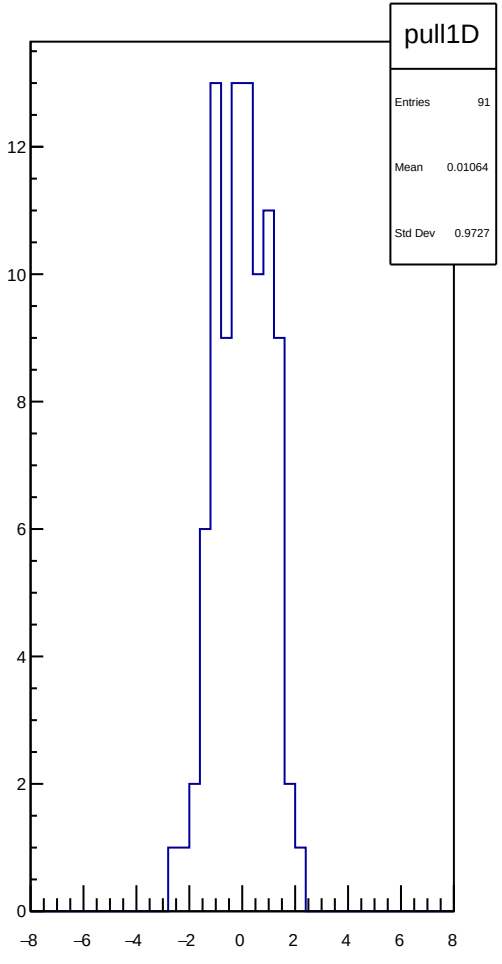

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 95.64 / 90
p0 −82.69 ± 49.5
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 91
Mean −509.2
Std Dev 0
2
1
0
−1
−2

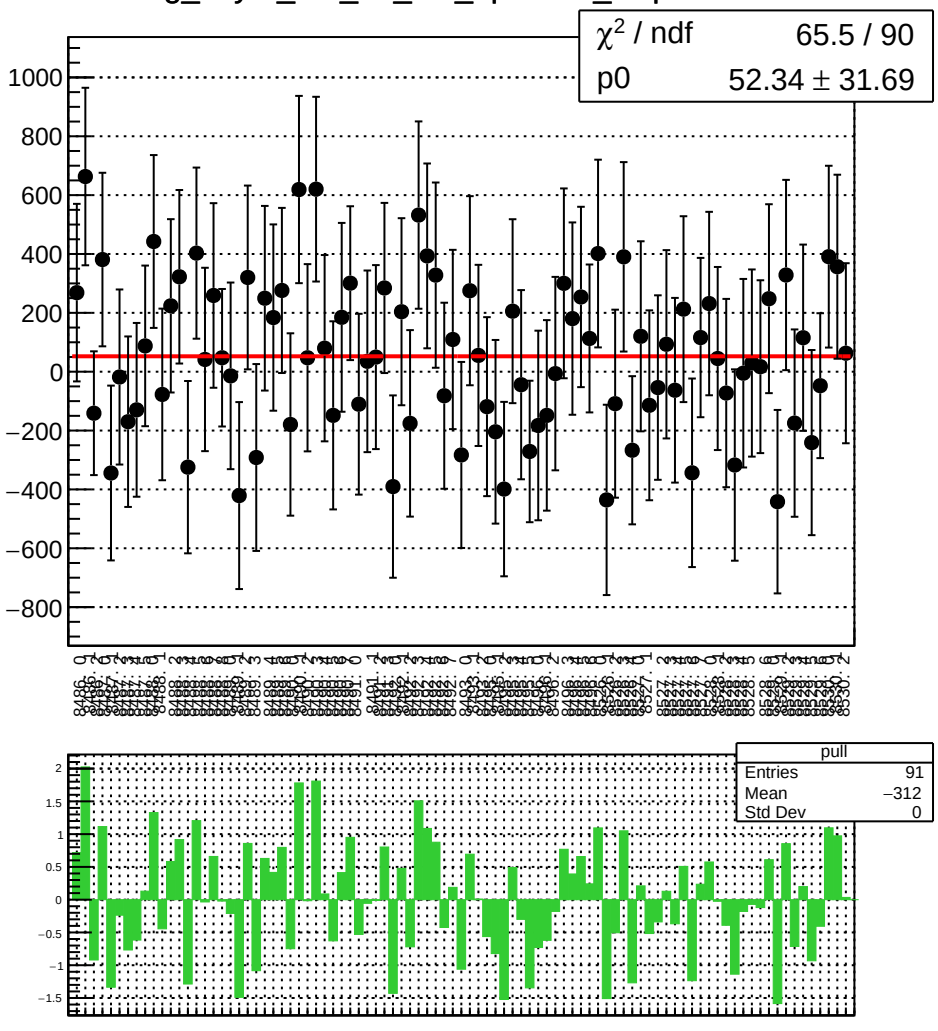

pull1D
Entries 91
Mean 0.004907
Std Dev 1.025
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

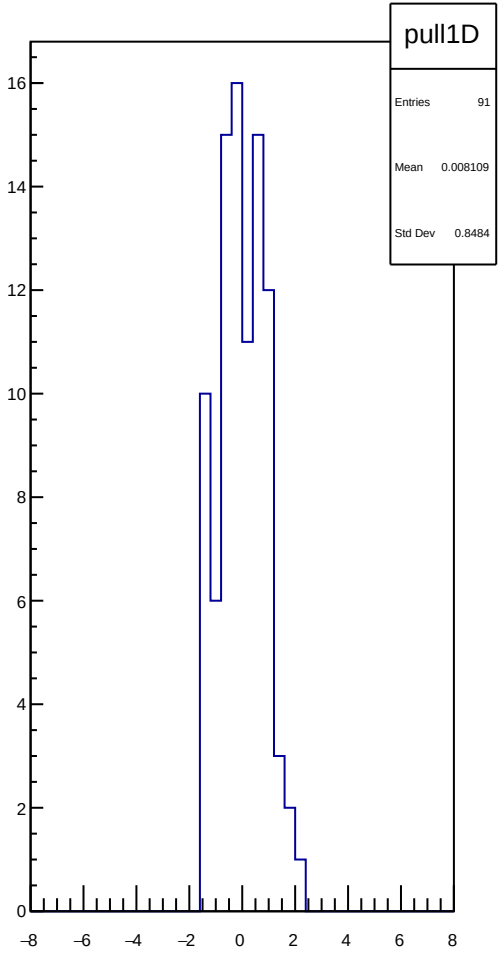

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 91.84 / 90
p0 5.6 ± 2.958
100
50
0
−50
−100
pull
Entries 91
Mean −255.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.01154
Std Dev 1.005
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

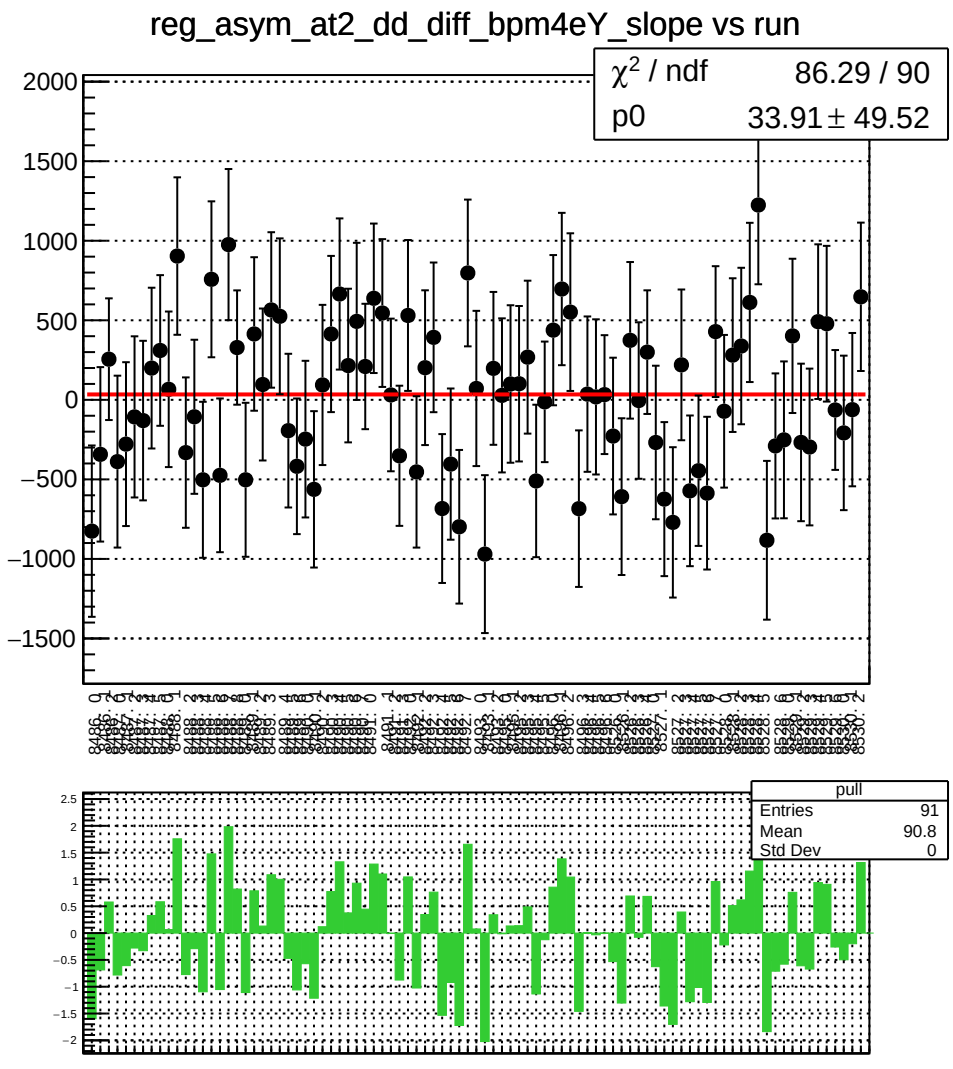

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 60.39 / 90
p0 −11.89 ± 29.15
pull
Entries 91
Mean −629.8
Std Dev 0
pull1D
Entries 91
Mean −0.003432
Std Dev 0.8147

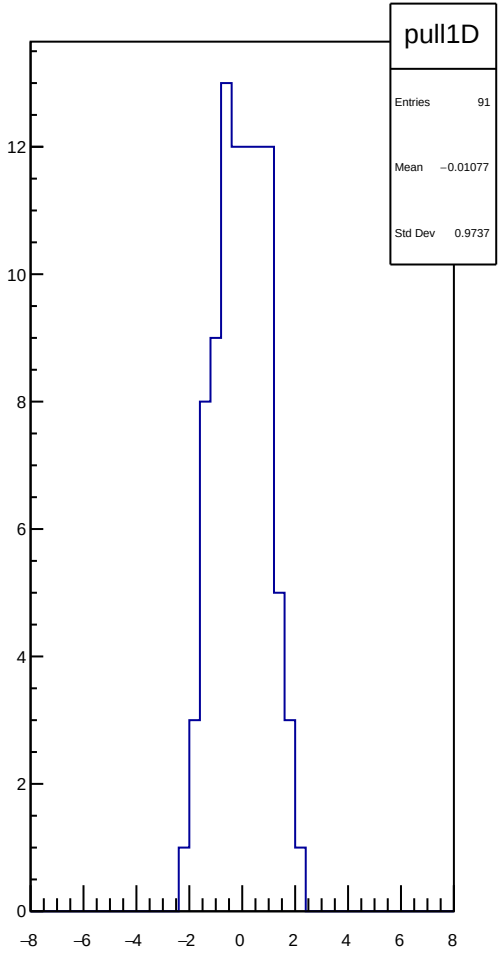

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 86.12 / 90
p0 −42.7 ± 46.75
pull
Entries 91
Mean 61.91
Std Dev 29.78

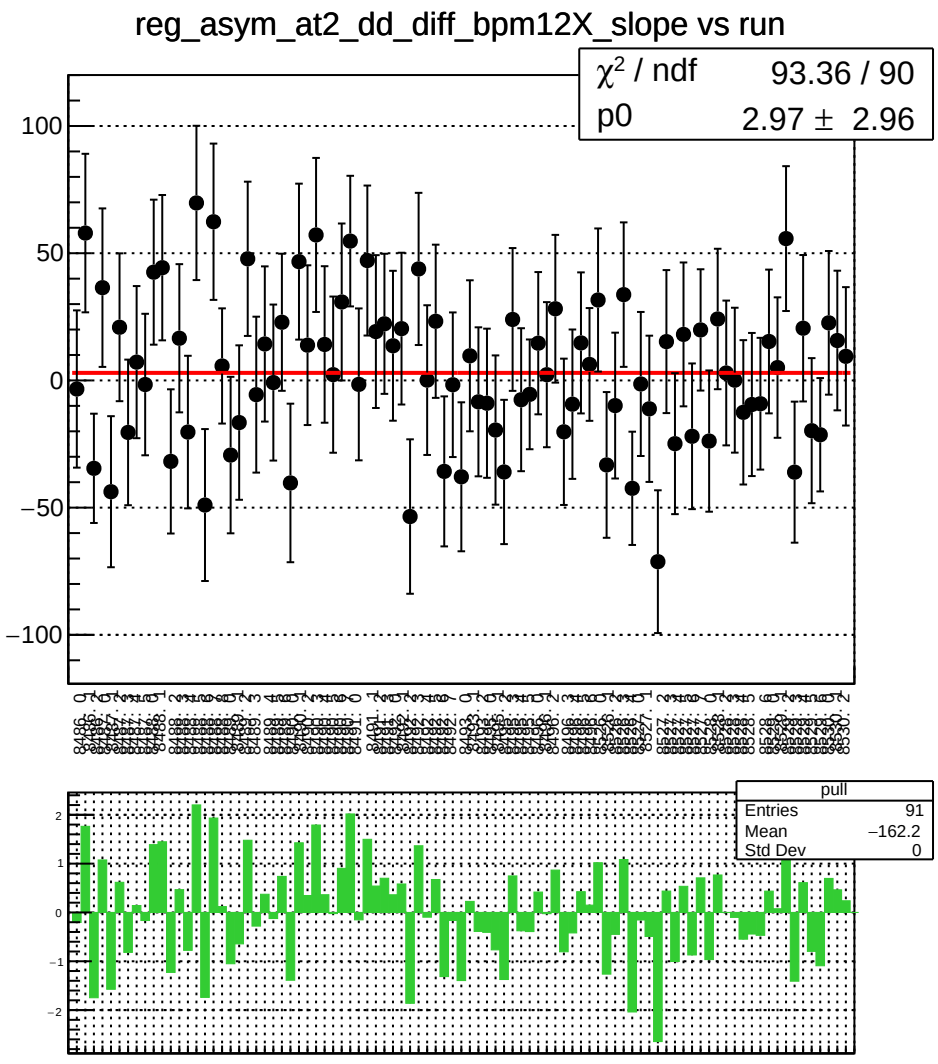

pull1D
Entries 91
Mean 0.01064
Std Dev 0.9727

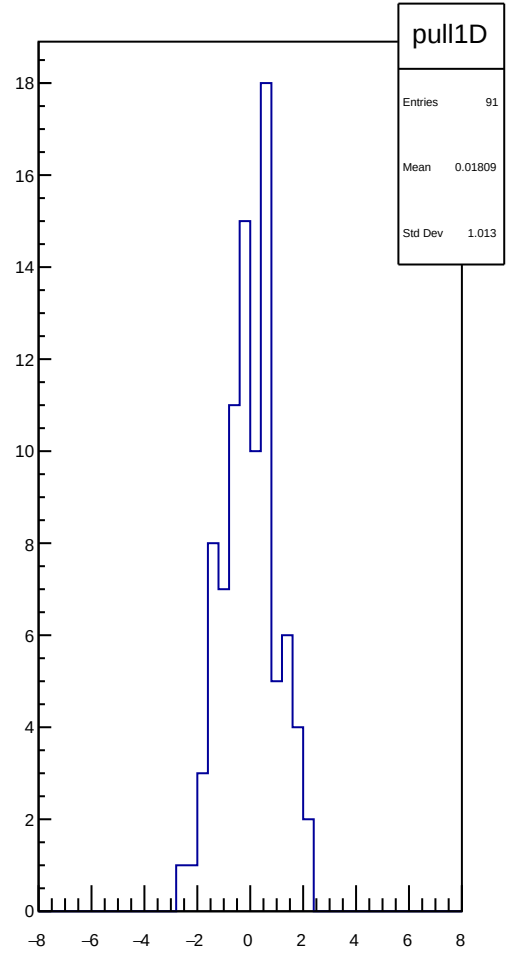

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 65.5 / 90
p0 52.34 ± 31.69
pull
Entries 91
Mean −312
Std Dev 0

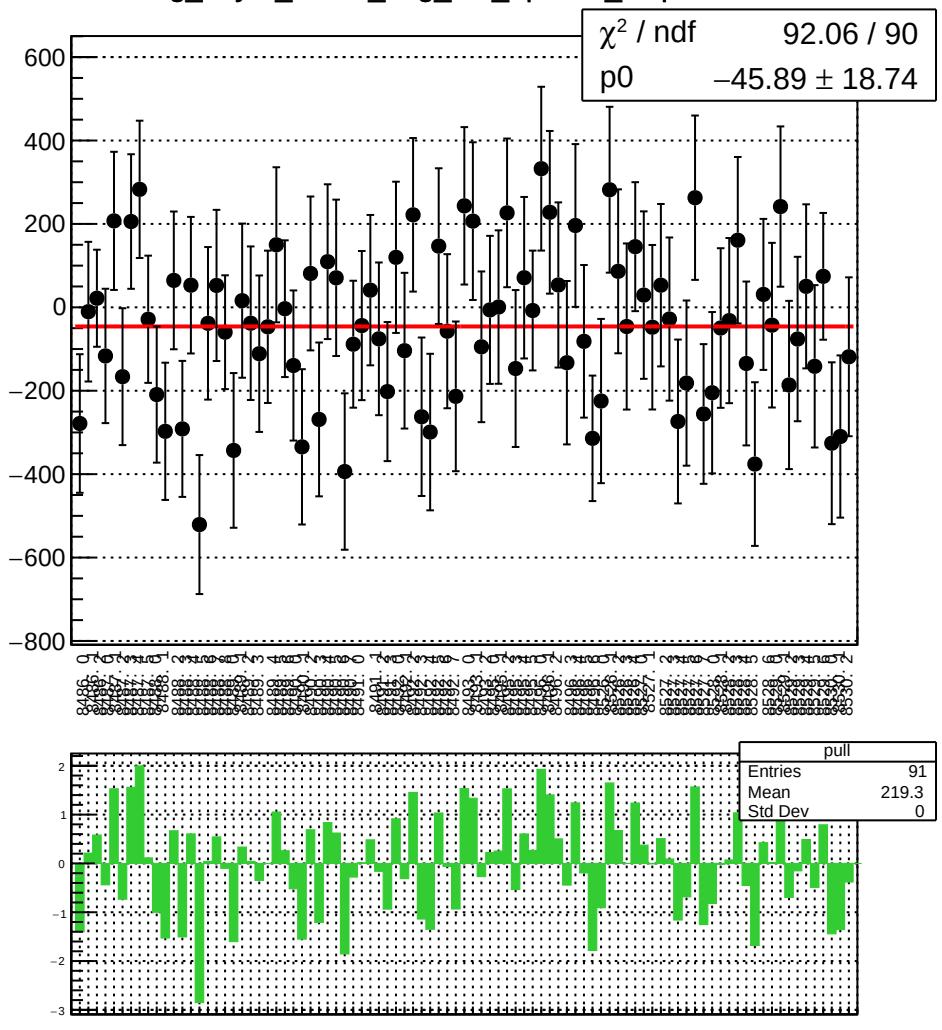

pull1D
Entries 91
Mean 0.008109
Std Dev 0.8484

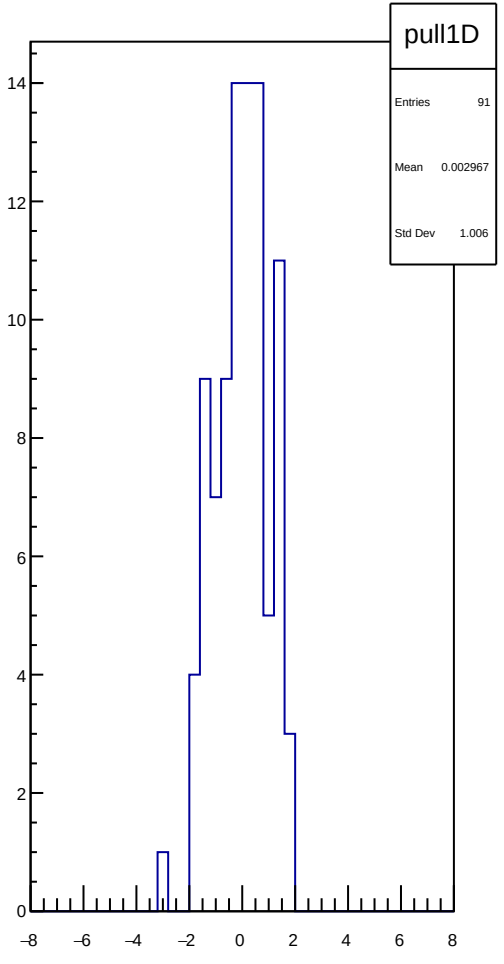

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 86.29 / 90
p0 33.91 ± 49.52
pull
Entries 91
Mean 90.8
Std Dev 0

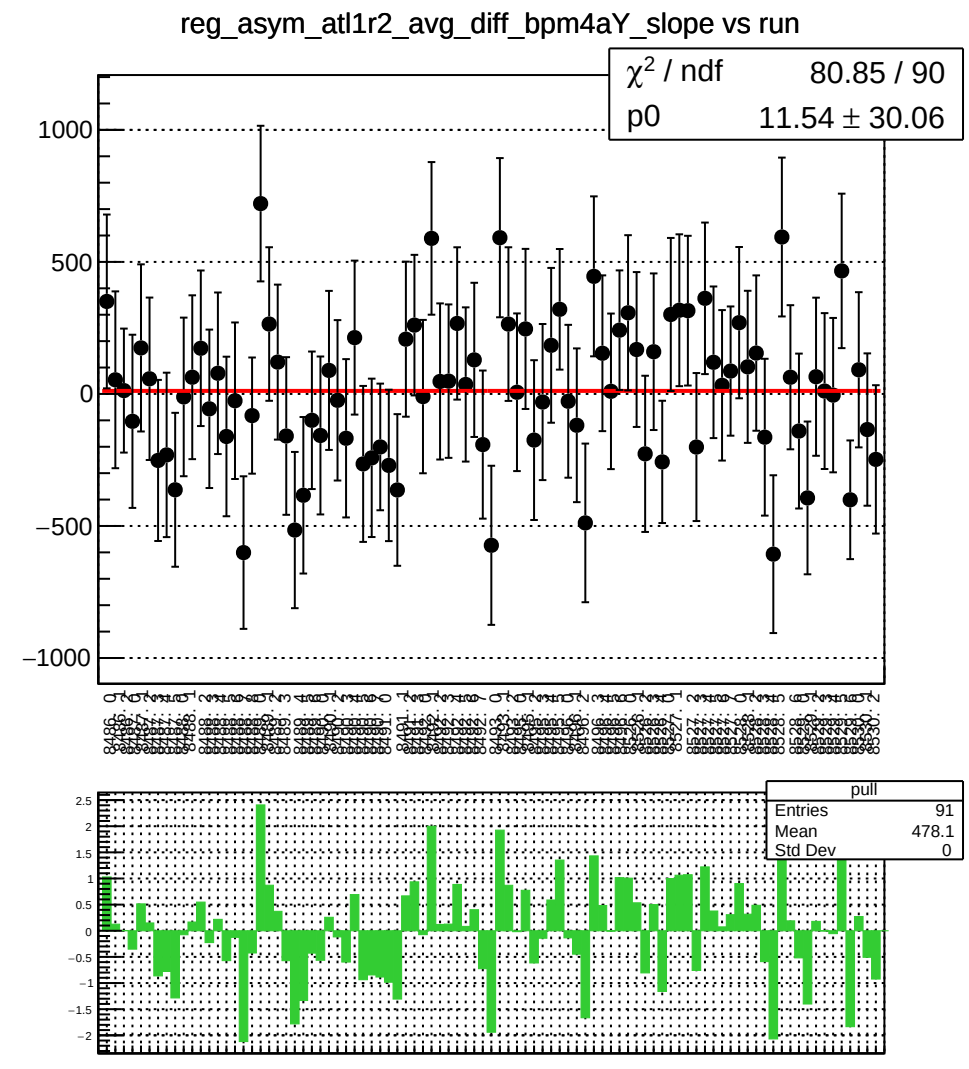

pull1D
Entries 91
Mean −0.01077
Std Dev 0.9737

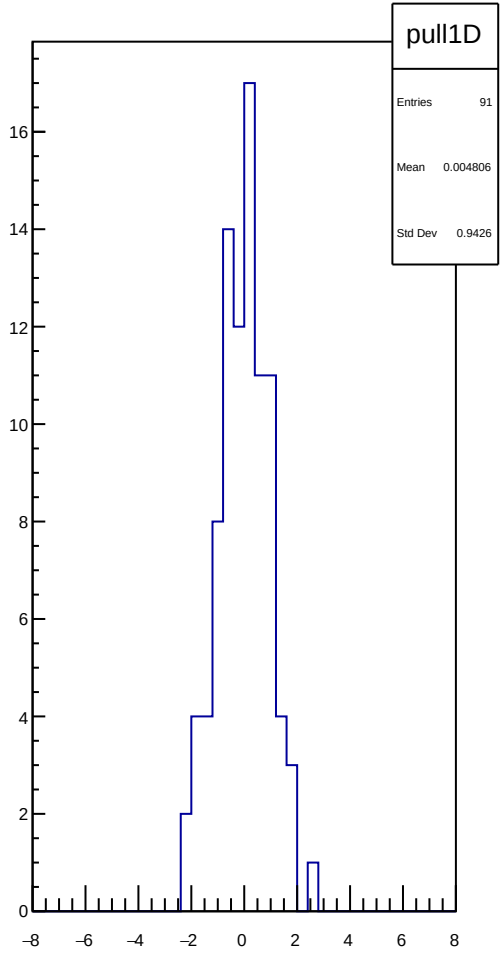

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 93.36 / 90
p0 2.97 ± 2.96
pull
Entries 91
Mean −162.2
Std Dev 0

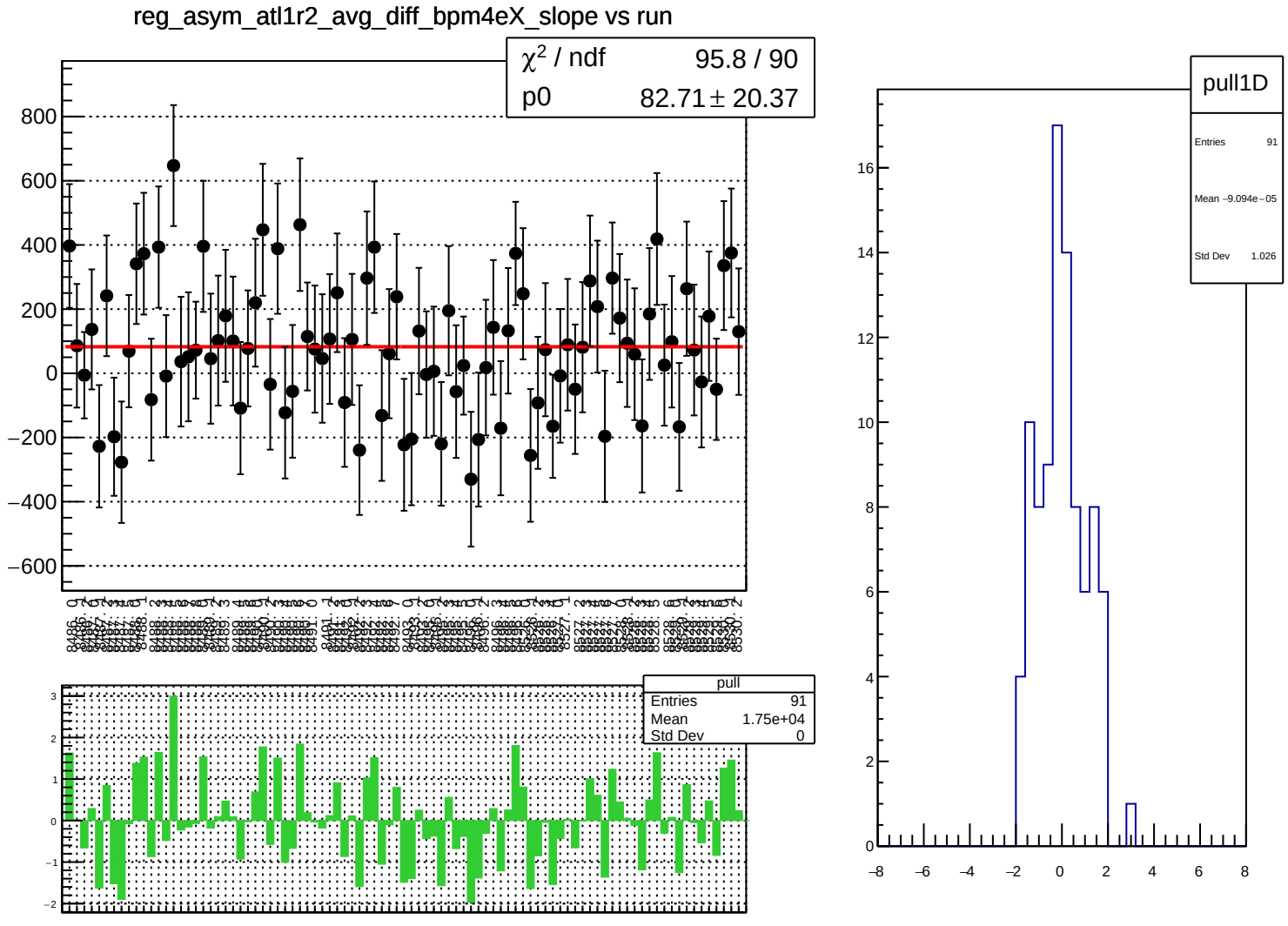

pull1D
Entries 91
Mean 0.01809
Std Dev 1.013

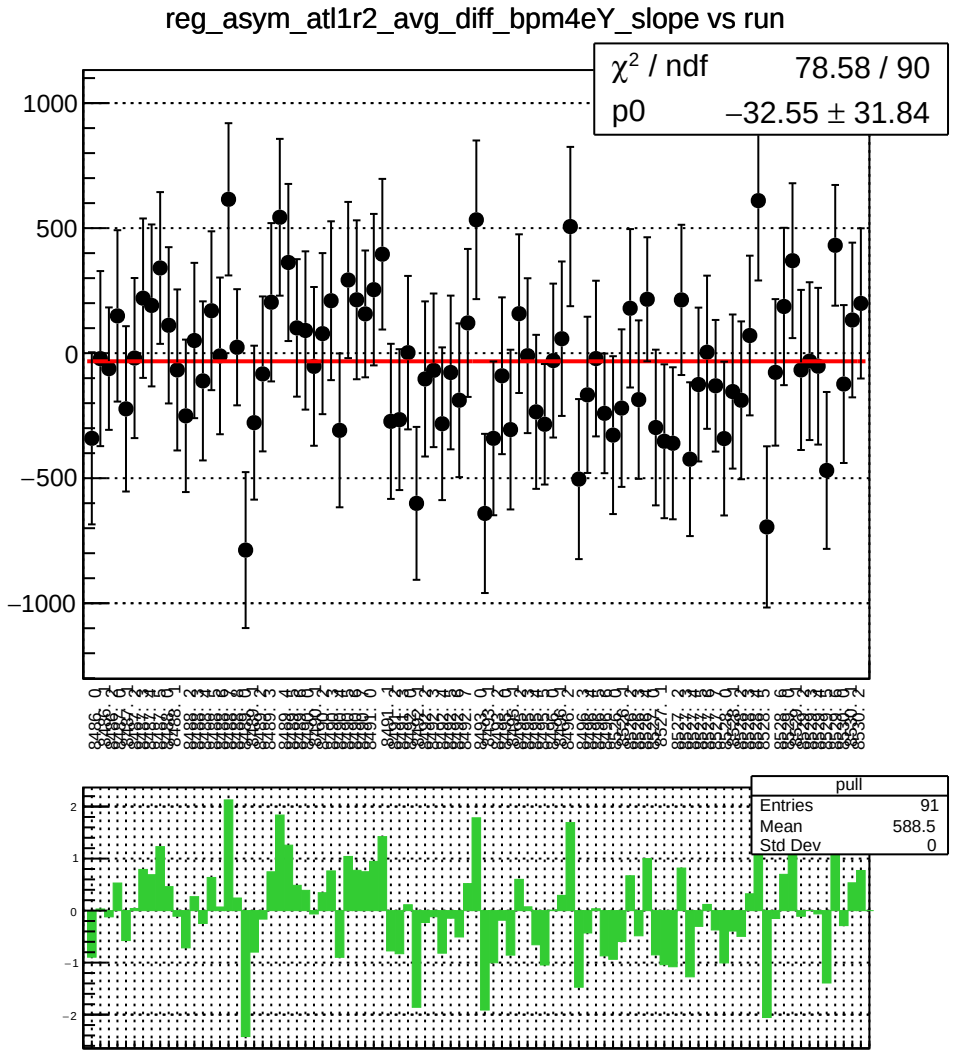

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 92.06 / 90
p0 −45.89 ± 18.74
pull
Entries 91
Mean 219.3
Std Dev 0

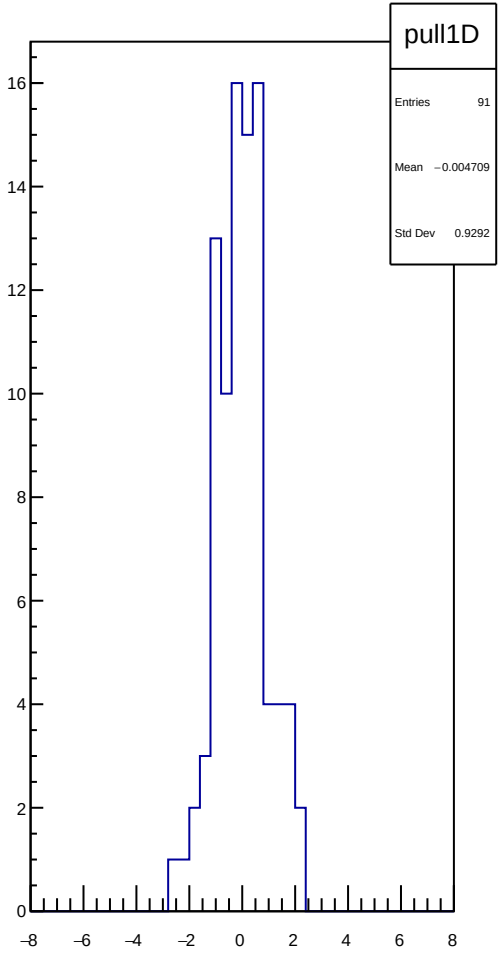

pull1D
Entries 91
Mean 0.002967
Std Dev 1.006

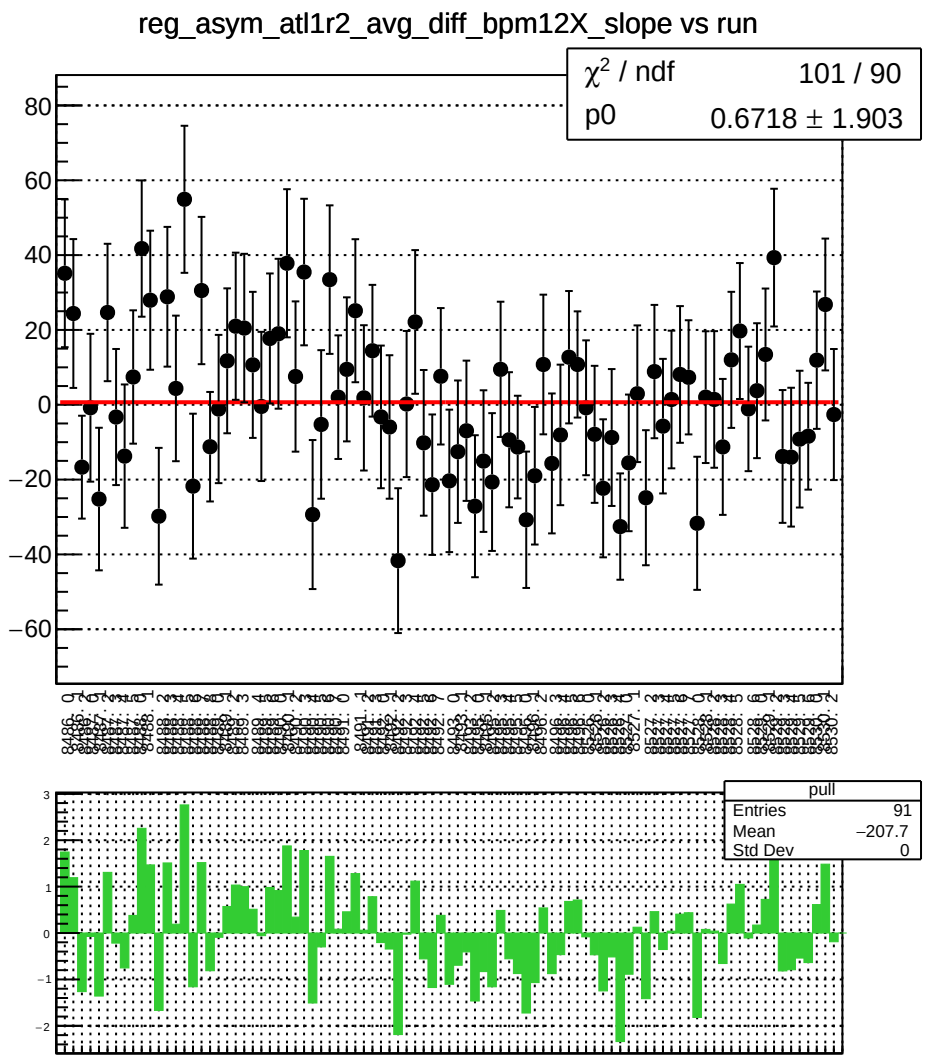

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 80.85 / 90
p0 11.54 ± 30.06
1000
500
0
−500
−1000
pull
Entries 91
Mean 478.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

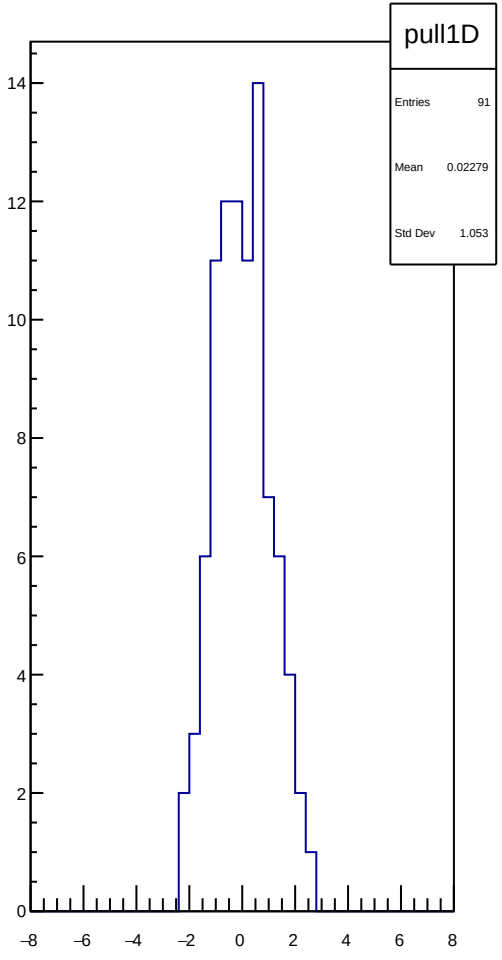

pull1D
Entries 91
Mean 0.004806
Std Dev 0.9426
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

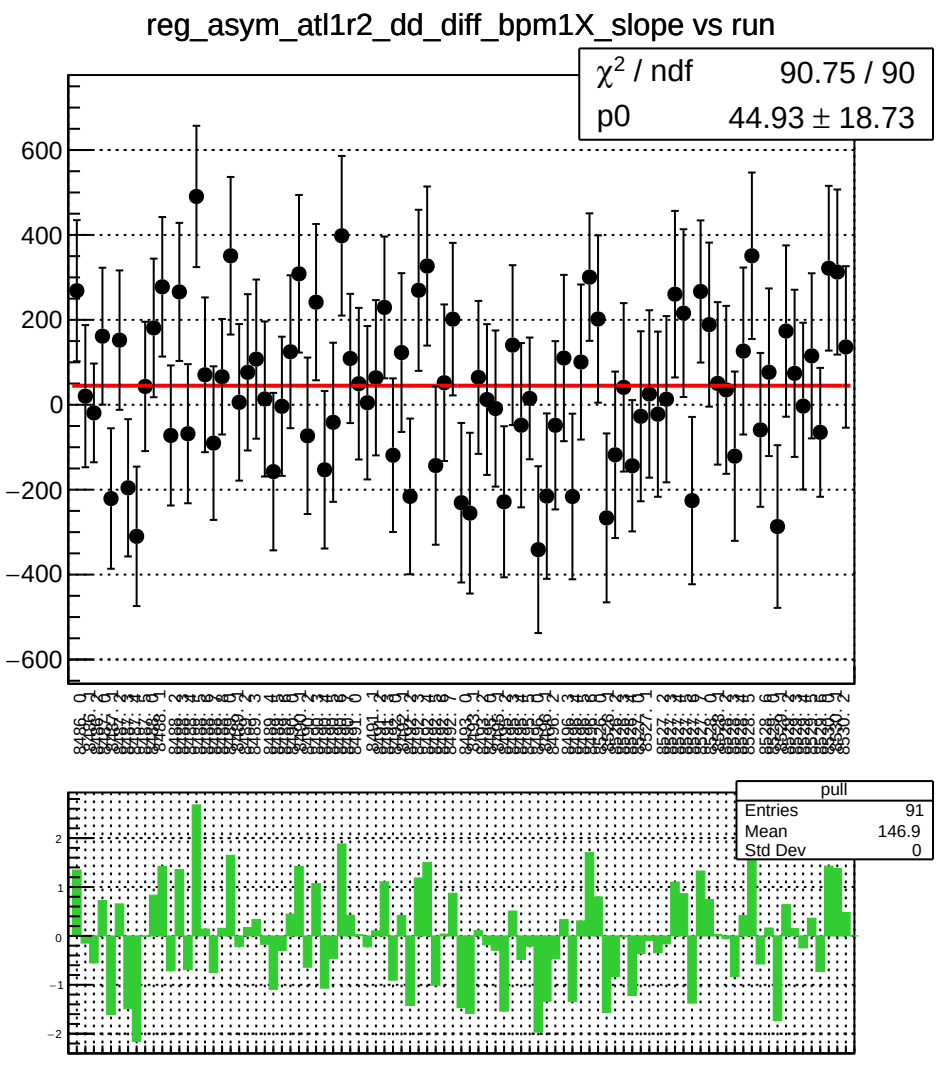

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 95.8 / 90
p0 82.71 ± 20.37
pull
Entries 91
Mean 1.75e+04
Std Dev 0
pull1D
Entries 91
Mean −9.094e−05
Std Dev 1.026

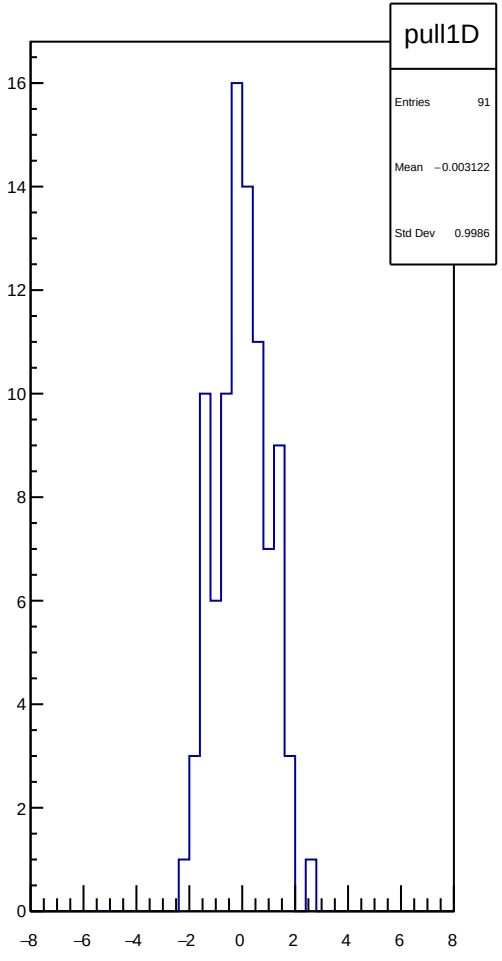

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 78.58 / 90
p0 −32.55 ± 31.84
1000
500
0
−500
−1000
pull
Entries 91
Mean 588.5
Std Dev 0
2
1
0
−1
−2

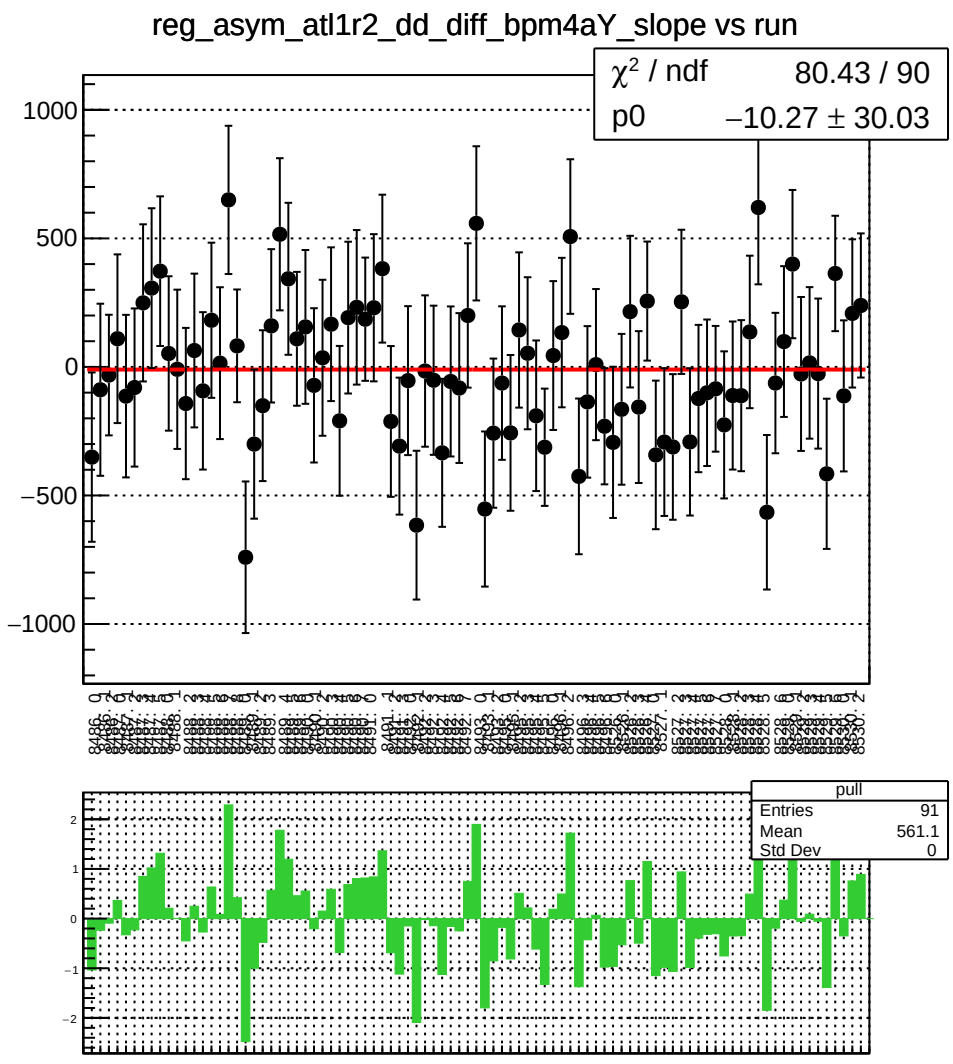

pull1D
Entries 91
Mean −0.004709
Std Dev 0.9292
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

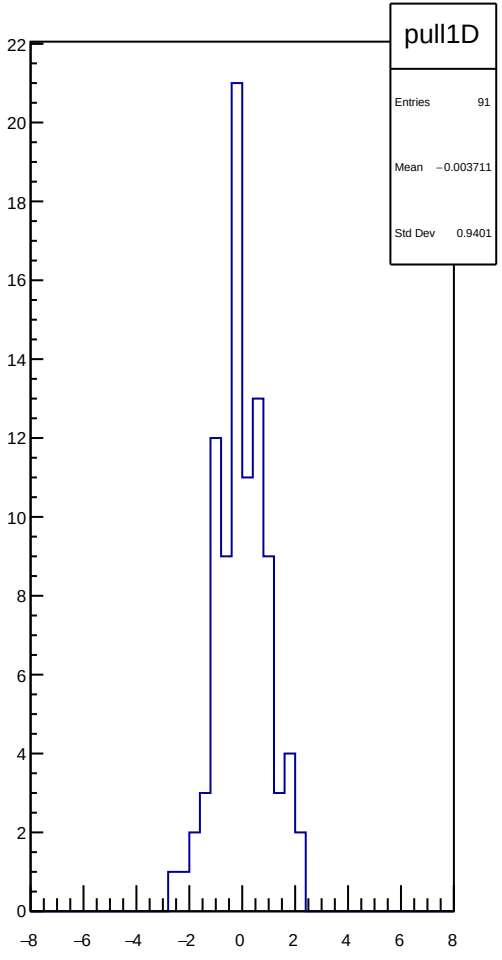

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 101 / 90
p0 0.6718 ± 1.903
pull
Entries 91
Mean −207.7
Std Dev 0

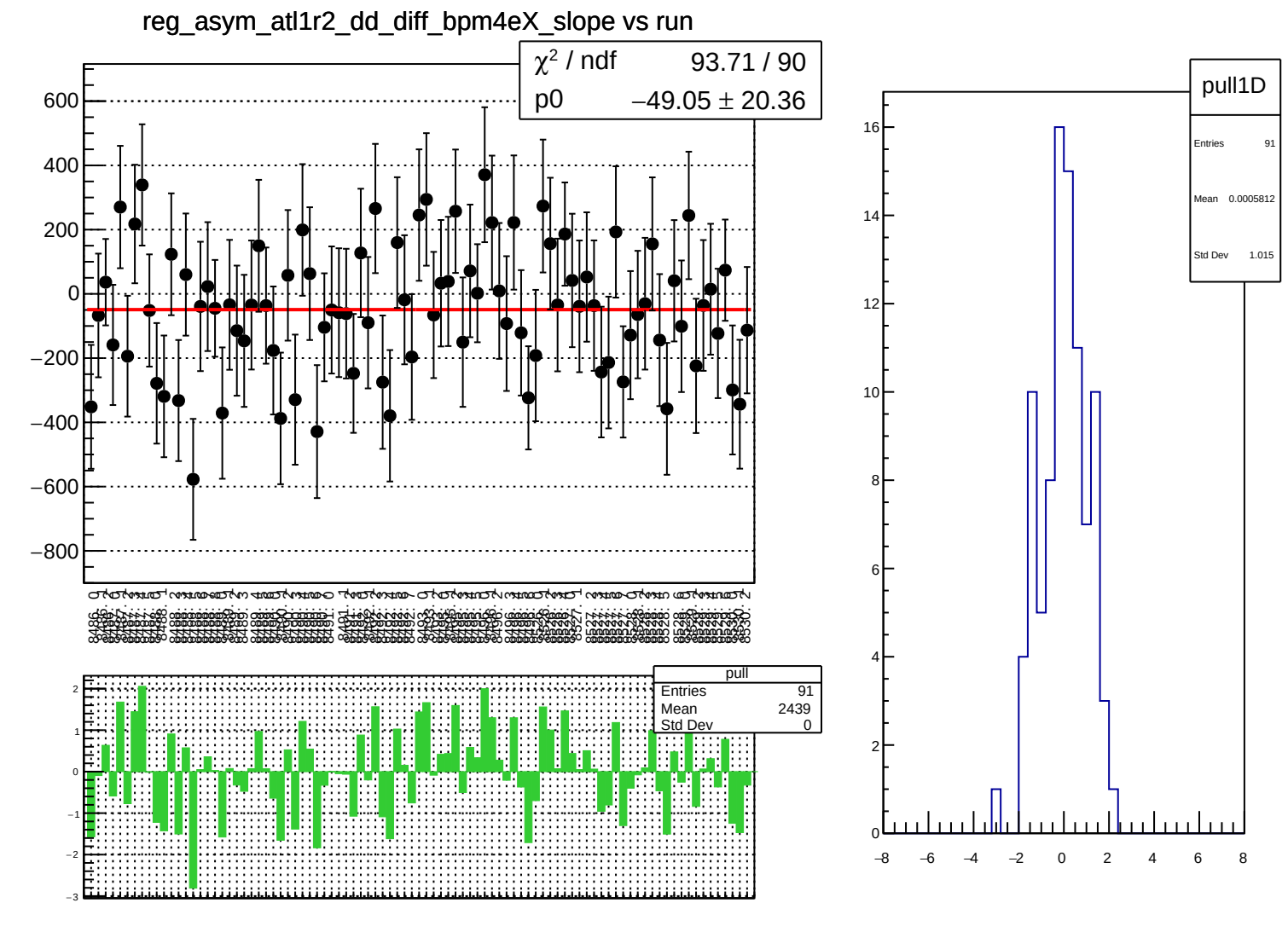

pull1D
Entries 91
Mean 0.02279
Std Dev 1.053

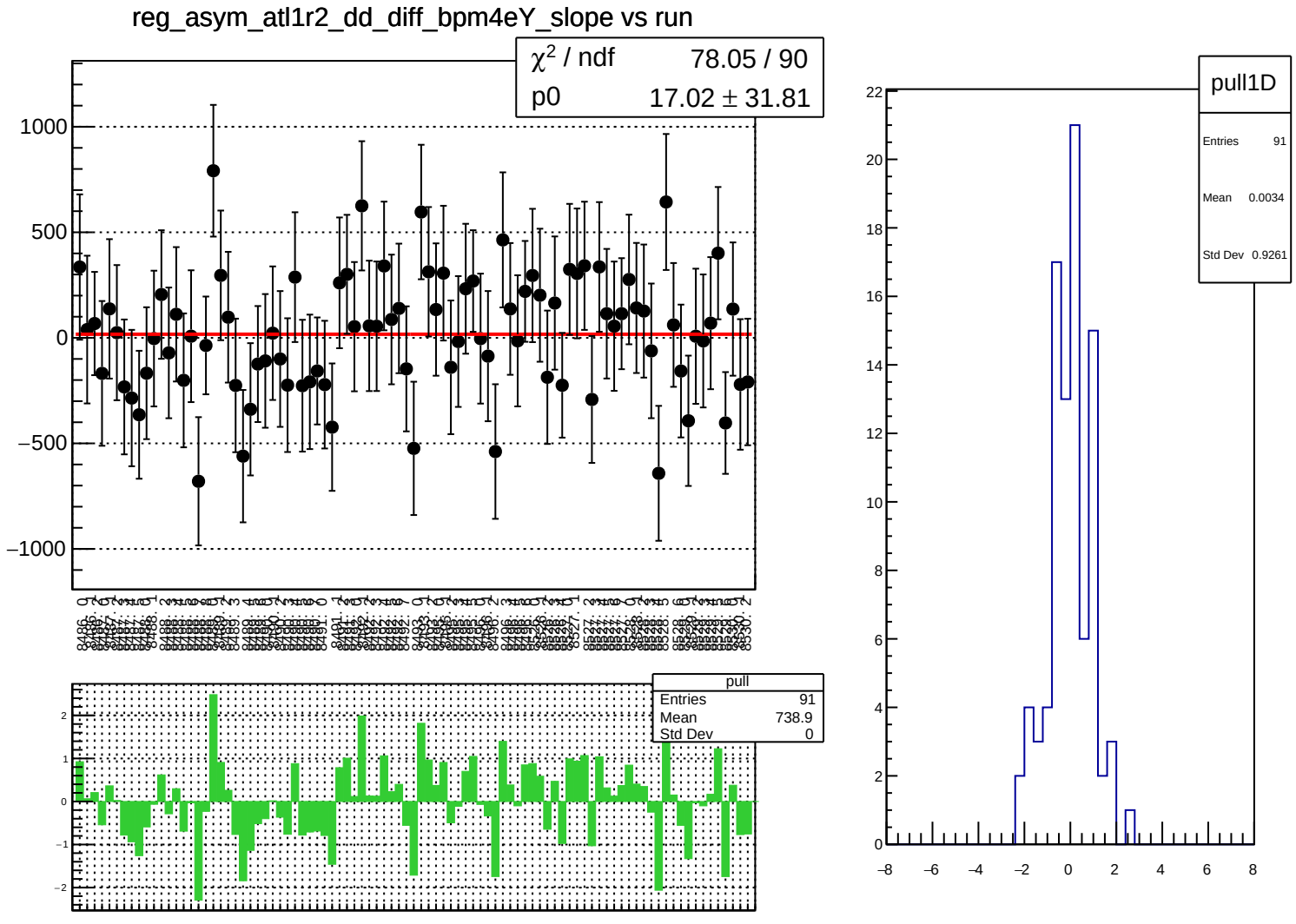

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 90.75 / 90
p0 44.93 ± 18.73
pull
Entries 91
Mean 146.9
Std Dev 0

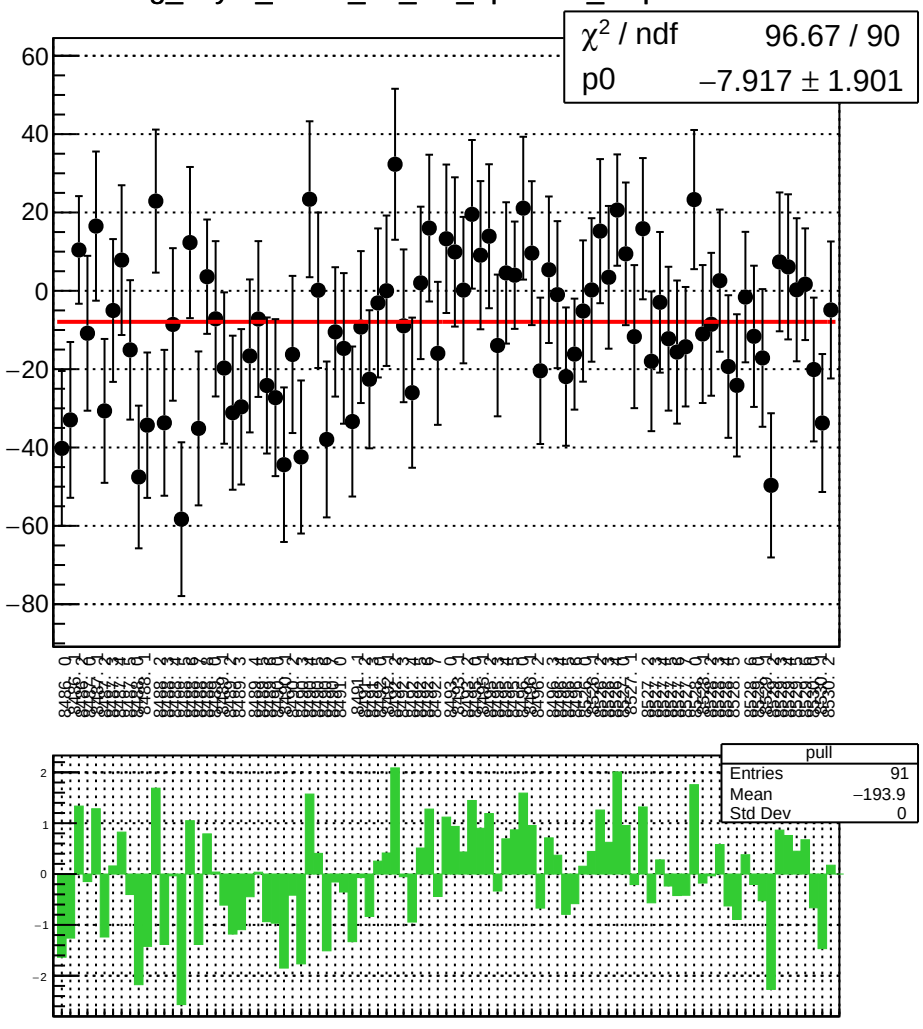

pull1D
Entries 91
Mean −0.003122
Std Dev 0.9986

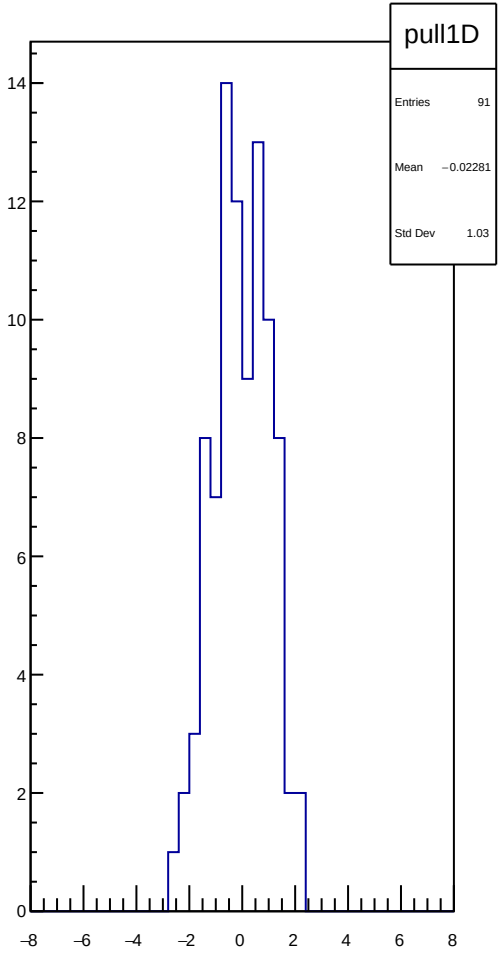

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 80.43 / 90
p0 −10.27 ± 30.03
1000
500
0
−500
−1000
pull
Entries 91
Mean 561.1
Std Dev 0
2
1
0
−1
−2

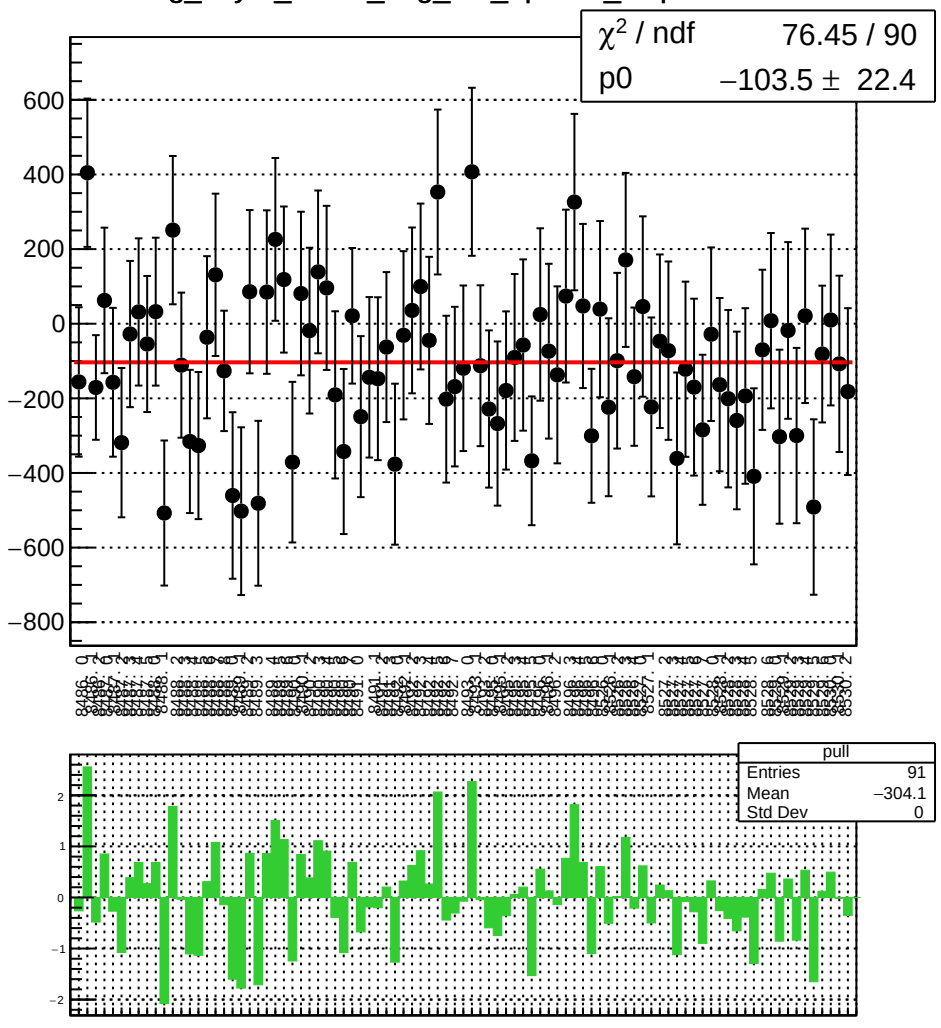

pull1D
Entries 91
Mean −0.003711
Std Dev 0.9401
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

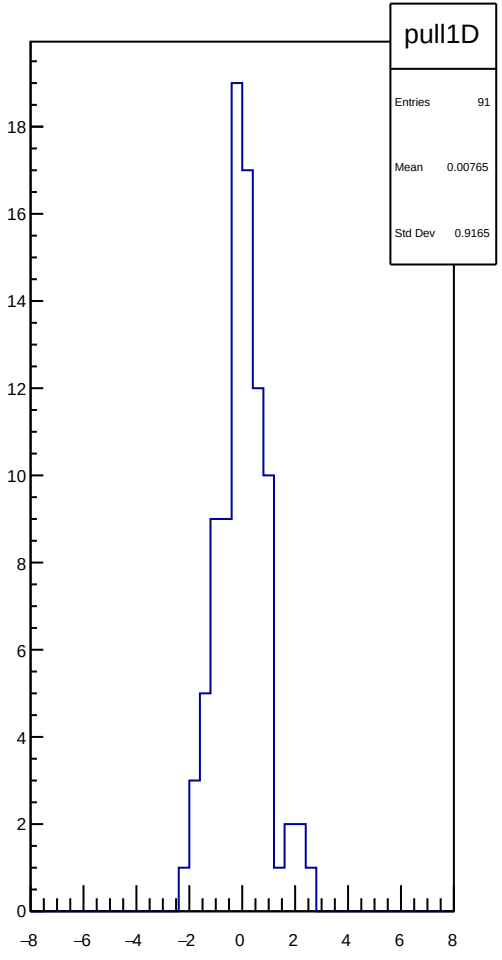

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 93.71 / 90
p0 −49.05 ± 20.36
pull
Entries 91
Mean 2439
Std Dev 0
pull1D
Entries 91
Mean 0.0005812
Std Dev 1.015

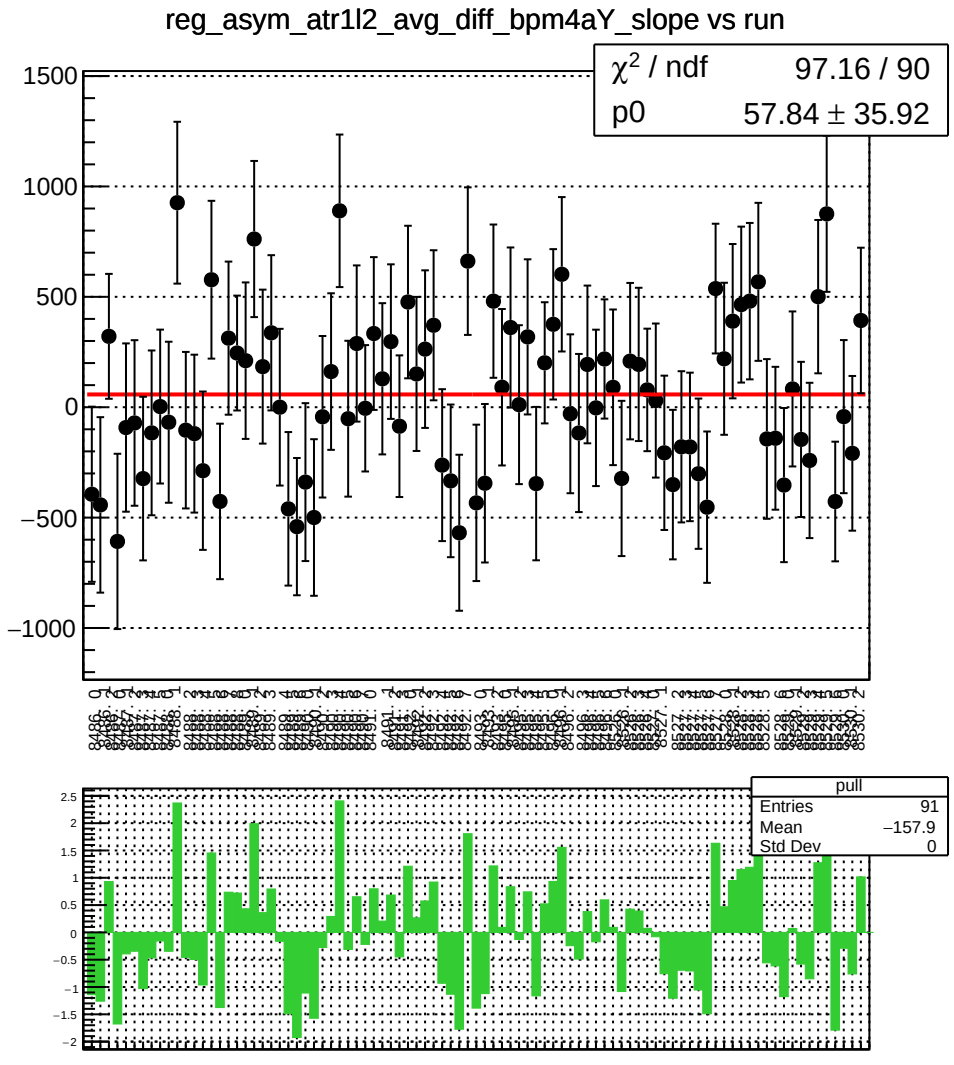

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 78.05 / 90
p0 17.02 ± 31.81
1000
500
0
−500
−1000
pull
Entries 91
Mean 738.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.0034
Std Dev 0.9261
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

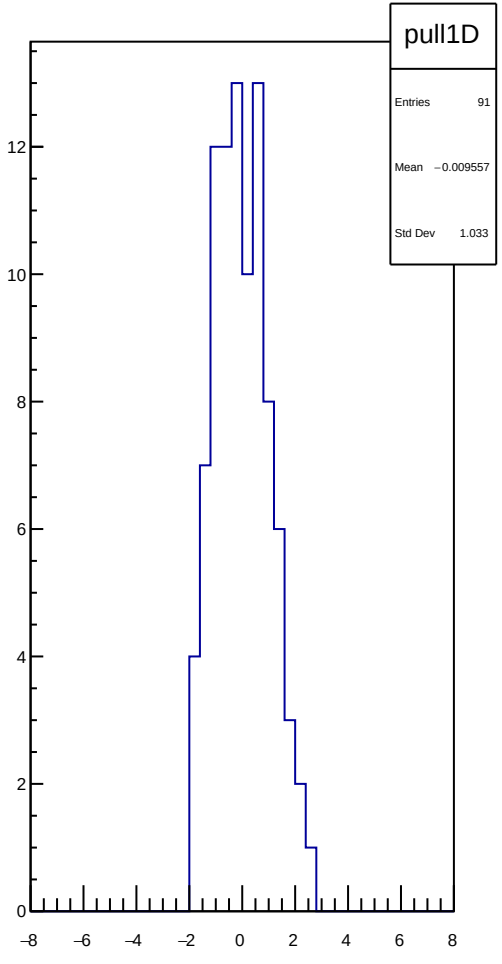

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 96.67 / 90
p0 −7.917 ± 1.901
pull
Entries 91
Mean −193.9
Std Dev 0

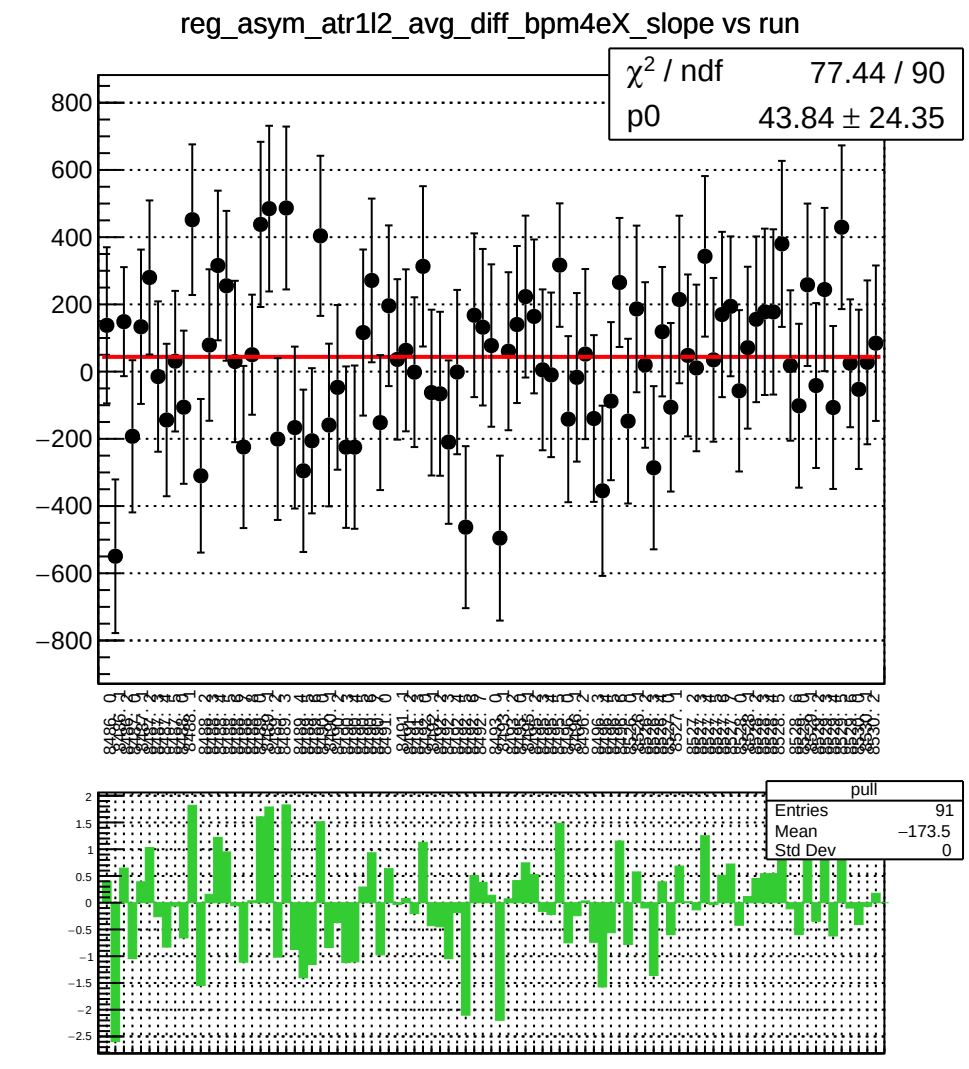

pull1D
Entries 91
Mean −0.02281
Std Dev 1.03

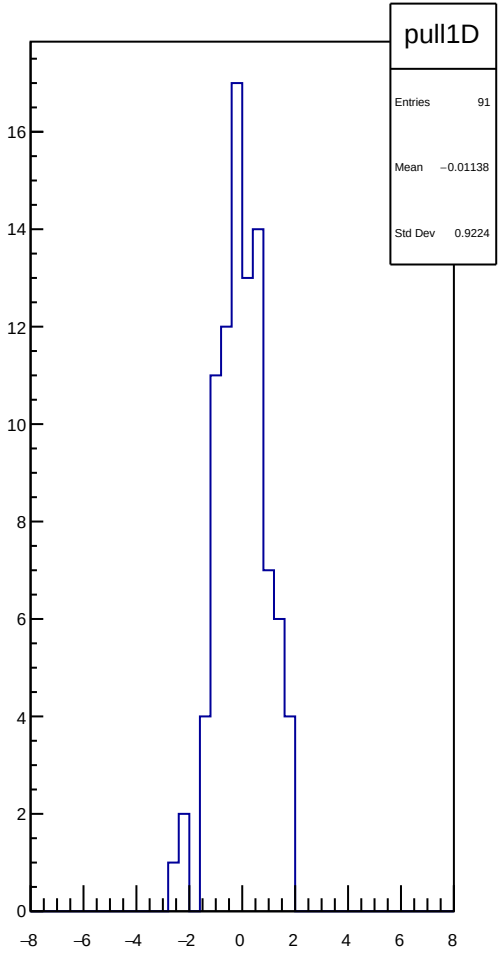

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 76.45 / 90
p0 −103.5 ± 22.4
pull
Entries 91
Mean −304.1
Std Dev 0

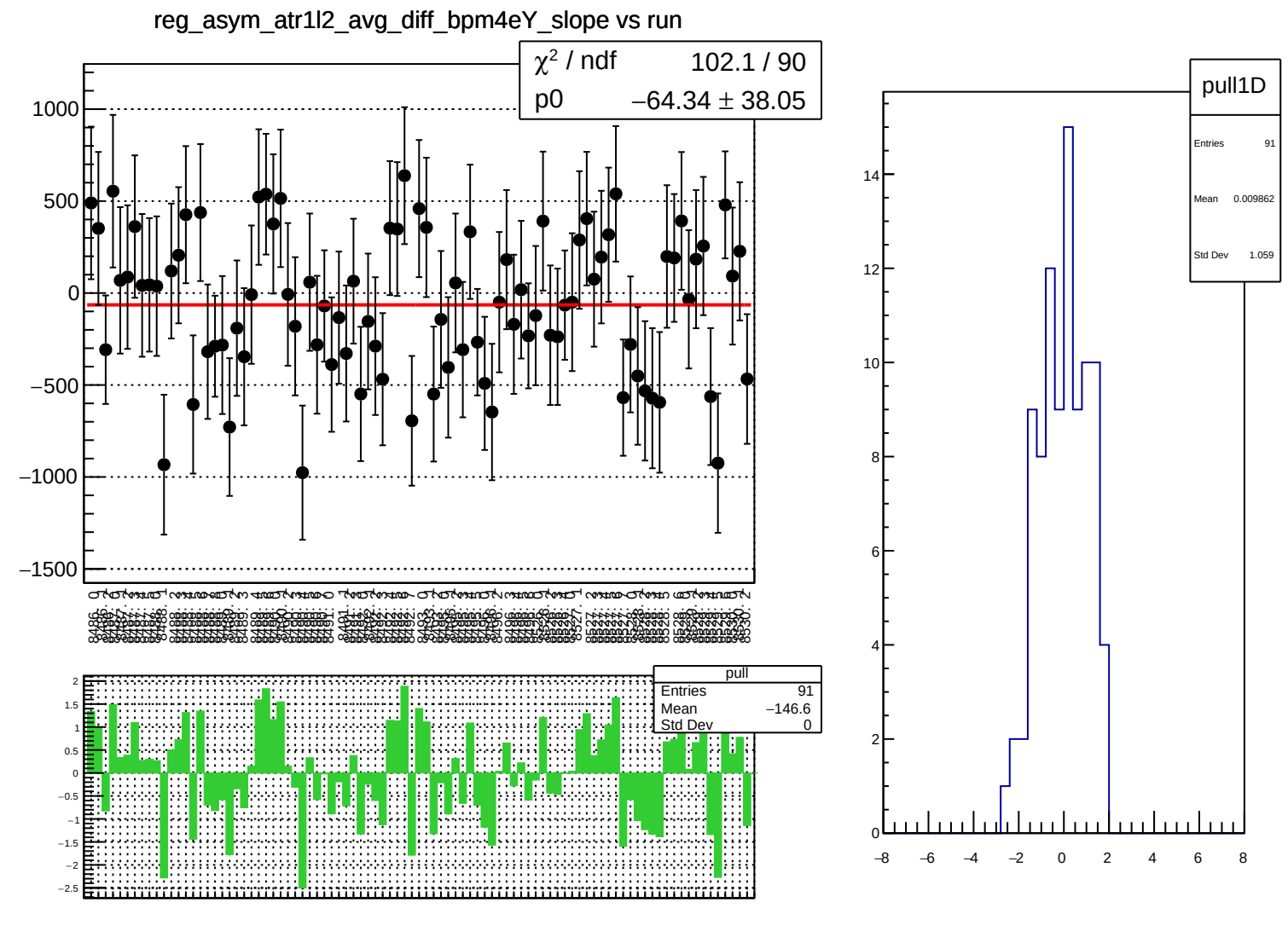

pull1D
Entries 91
Mean 0.00765
Std Dev 0.9165

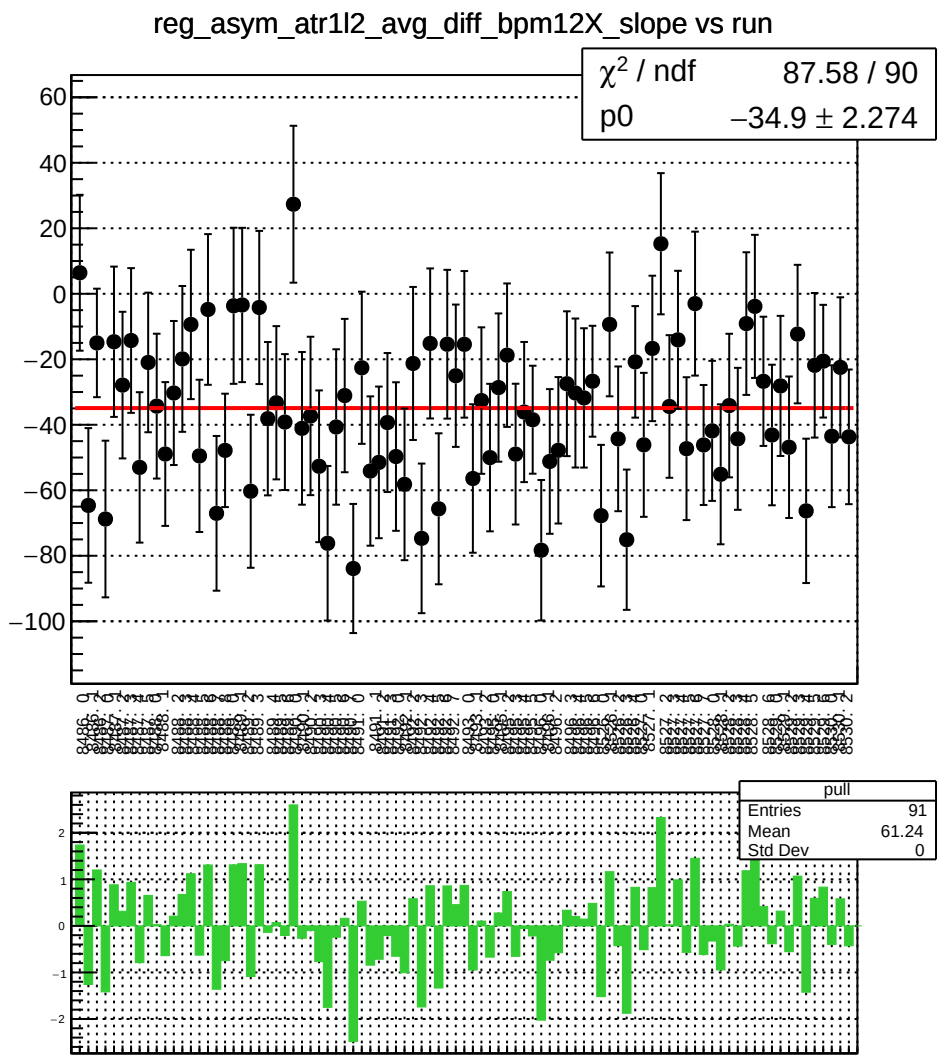

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 97.16 / 90
p0 57.84 ± 35.92
pull
Entries 91
Mean −157.9
Std Dev 0

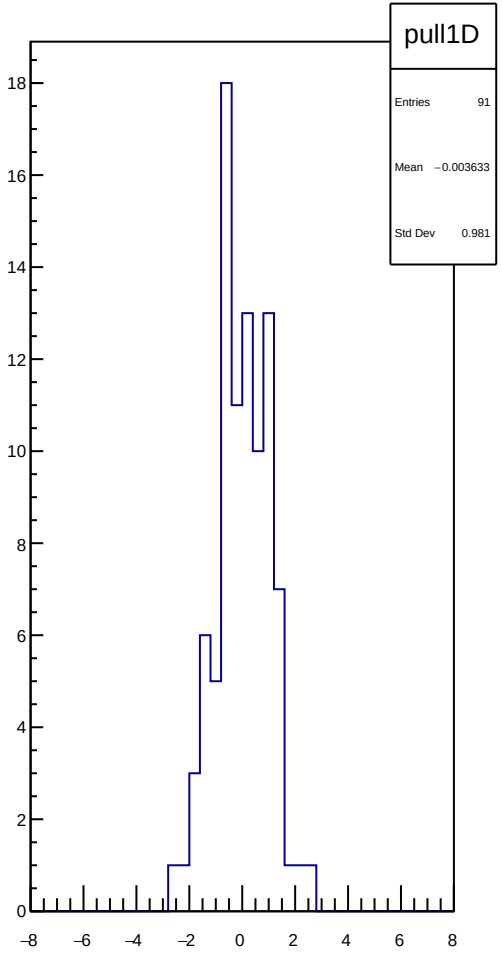

pull1D
Entries 91
Mean −0.009557
Std Dev 1.033

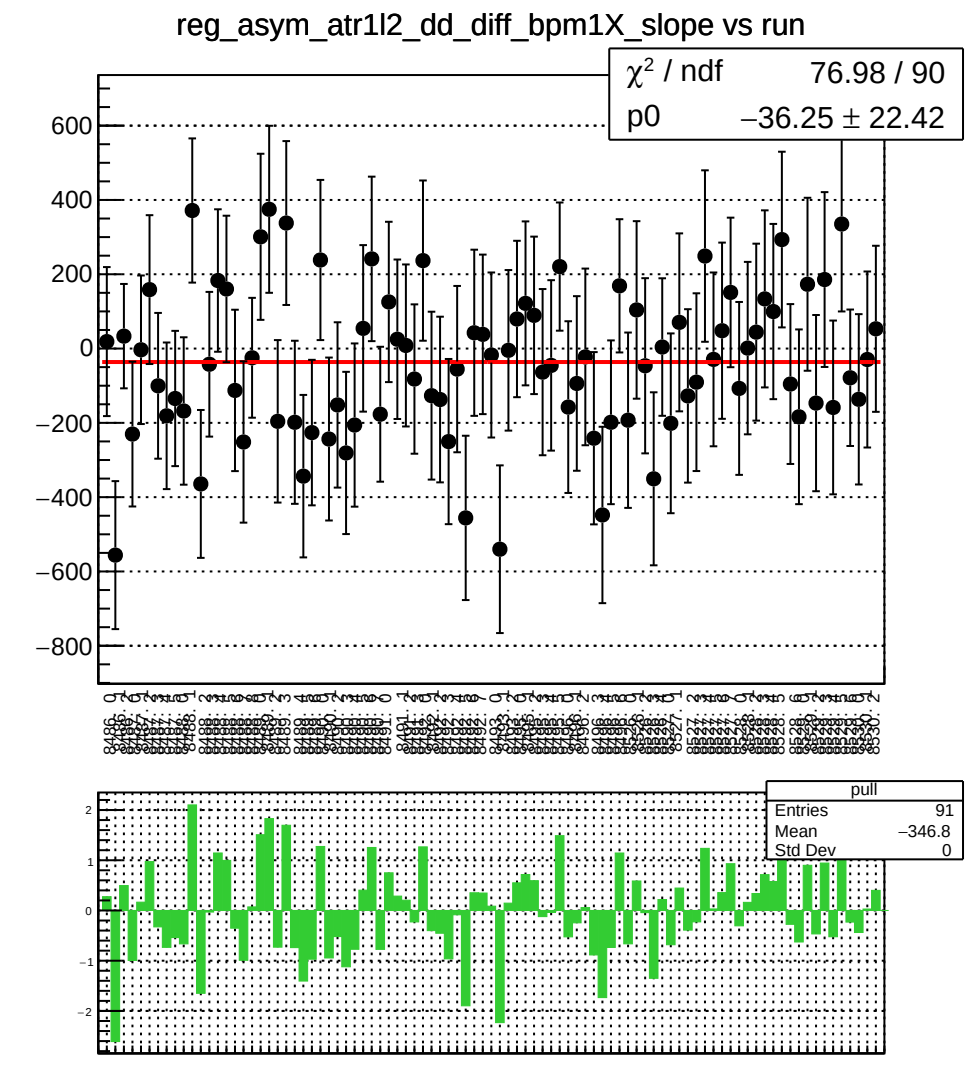

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 77.44 / 90
p0 43.84 ± 24.35
pull
Entries 91
Mean −173.5
Std Dev 0

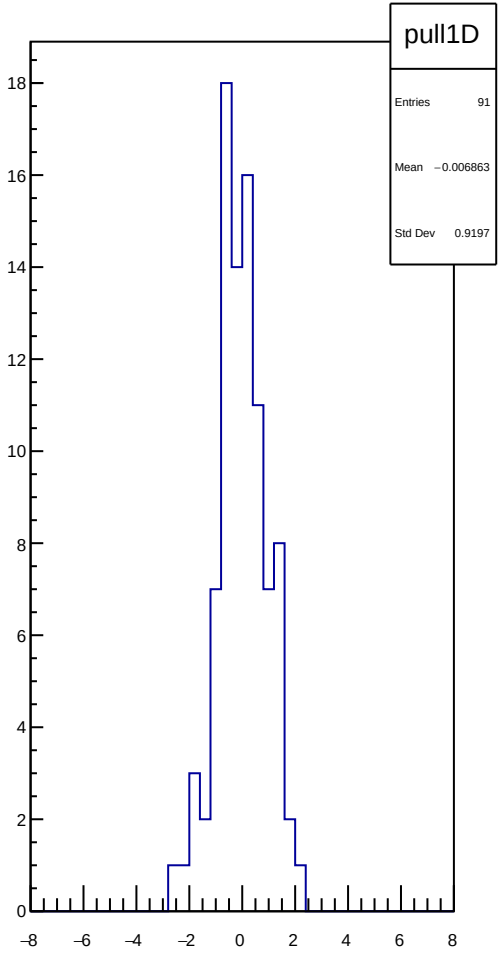

pull1D
Entries 91
Mean −0.01138
Std Dev 0.9224

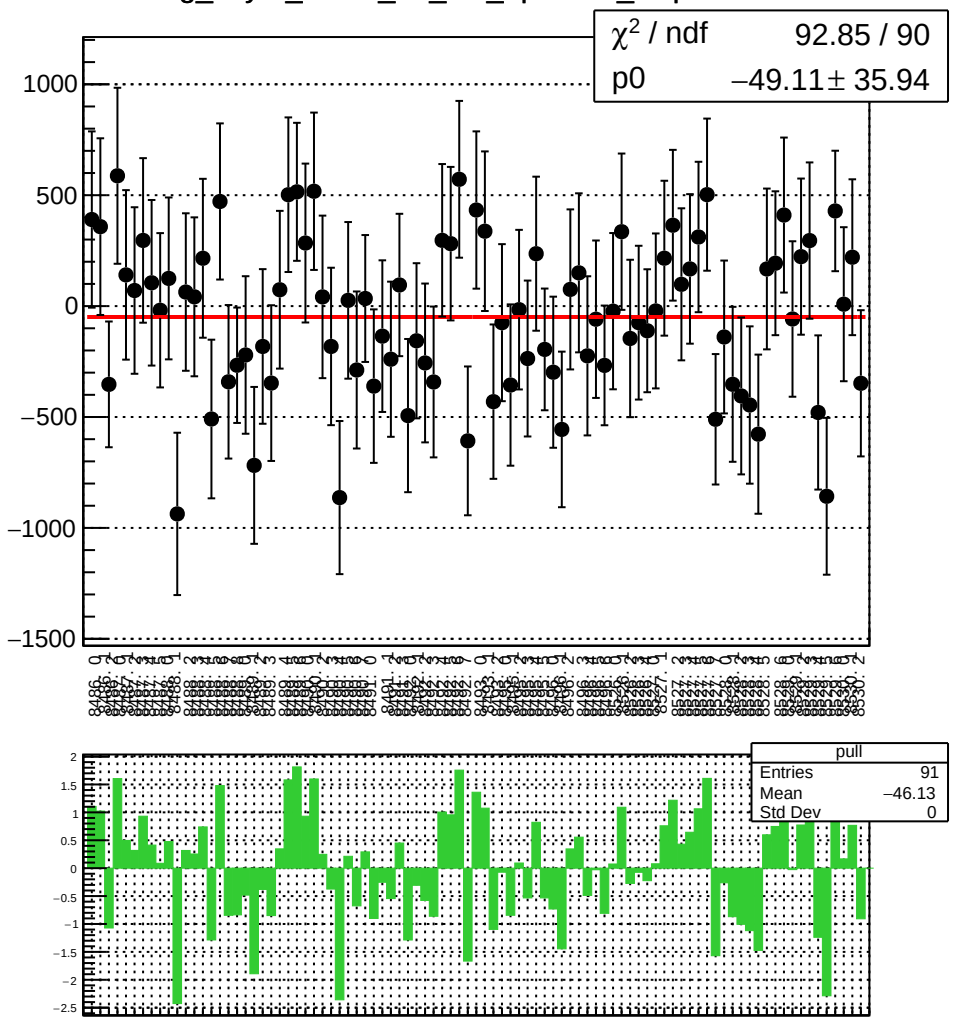

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 102.1 / 90
p0 −64.34 ± 38.05
1000
500
0
−500
−1000
−1500
pull
Entries 91
Mean −146.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 91
Mean 0.009862
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

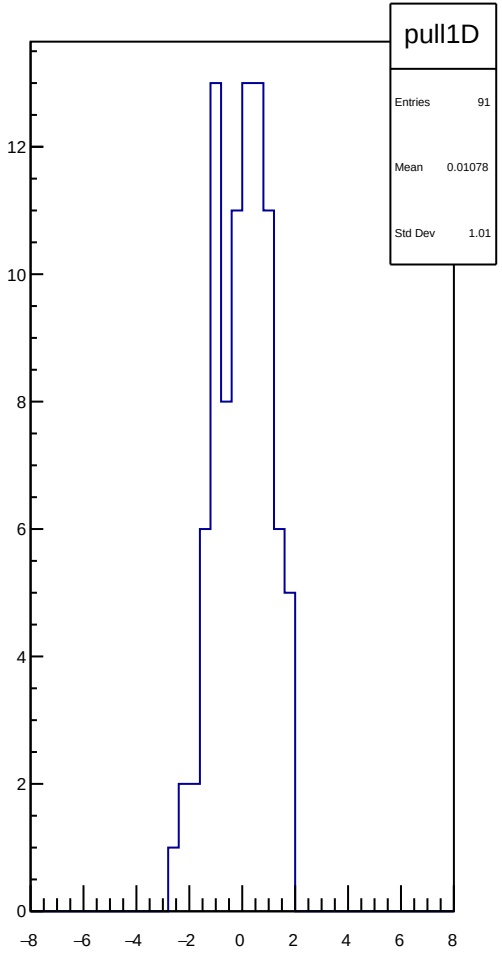

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 87.58 / 90
p0 −34.9 ± 2.274
pull
Entries 91
Mean 61.24
Std Dev 0

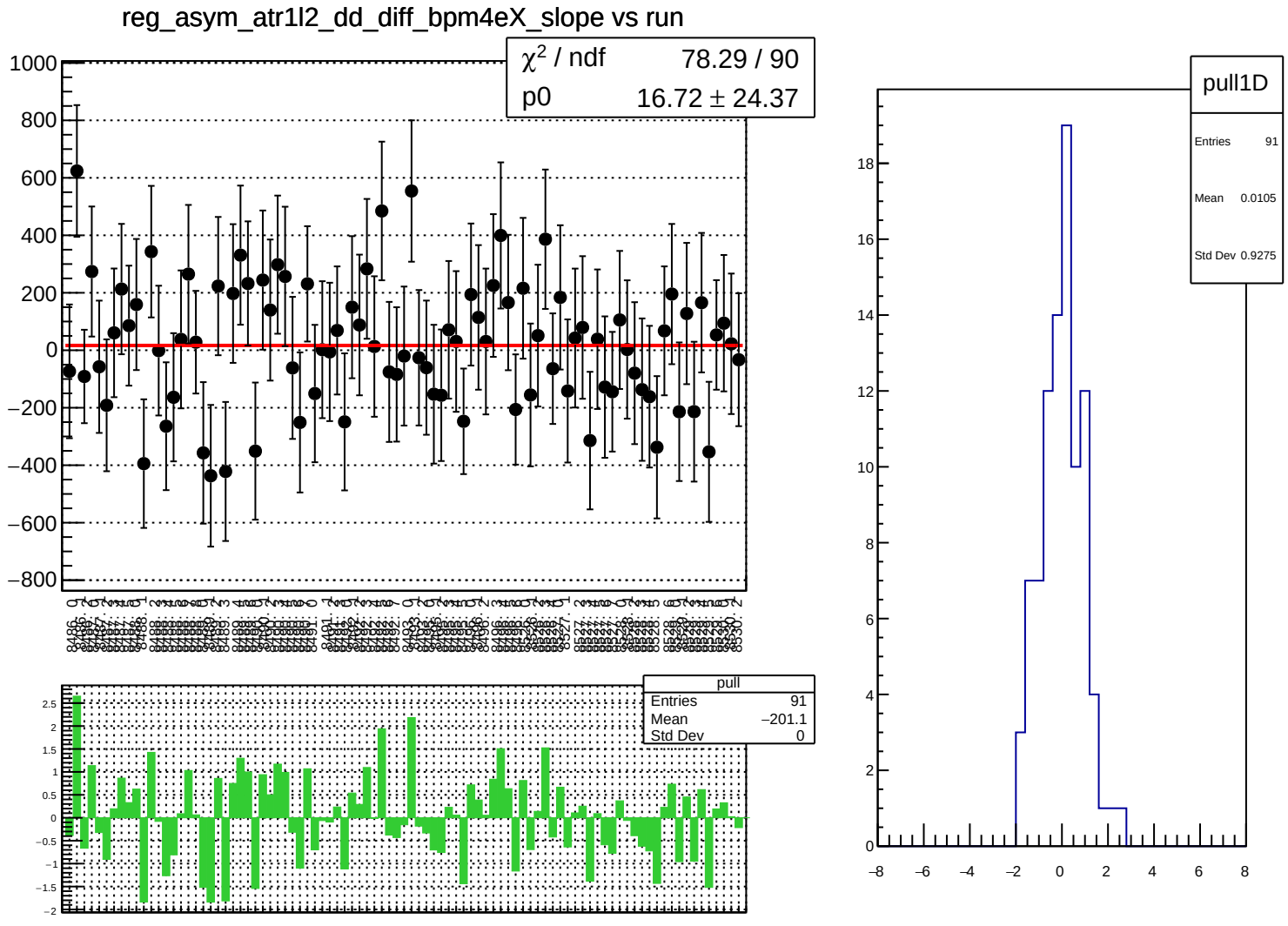

pull1D
Entries 91
Mean −0.003633
Std Dev 0.981

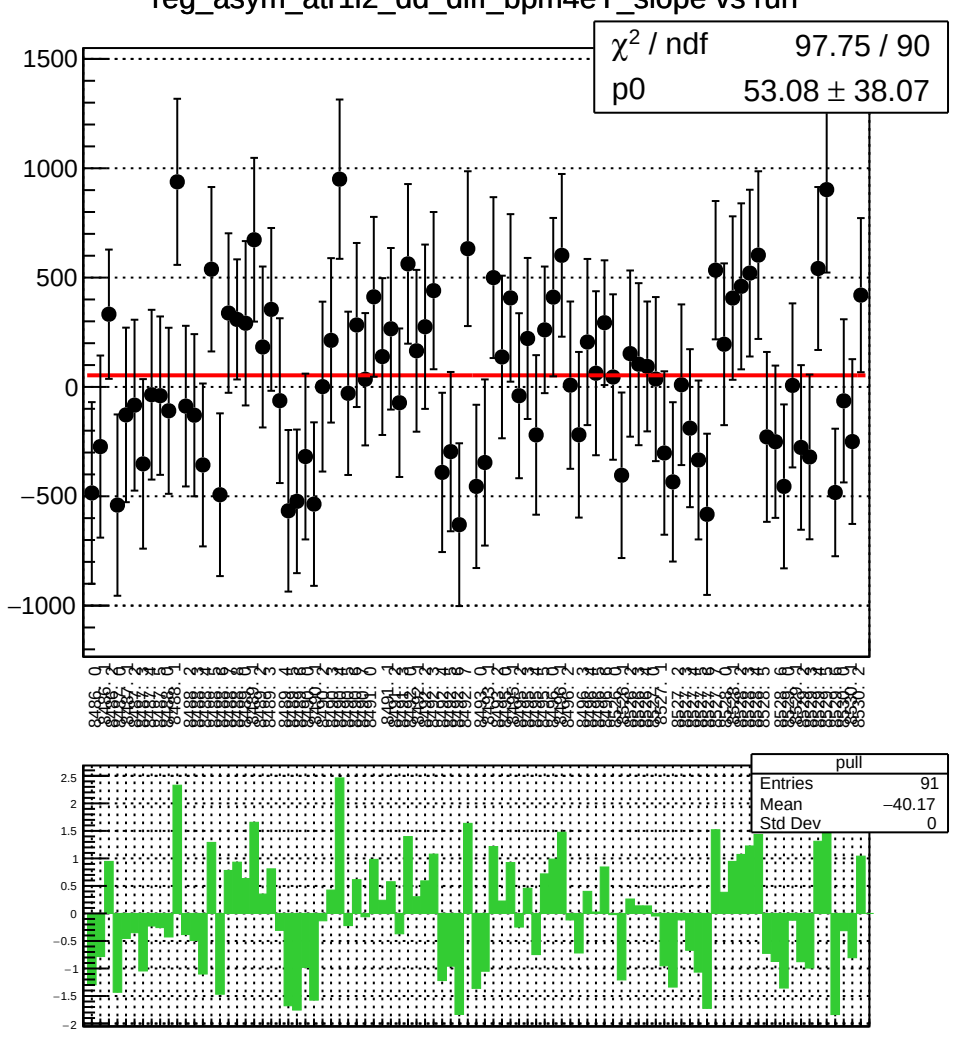

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 76.98 / 90
p0 −36.25 ± 22.42
pull
Entries 91
Mean −346.8
Std Dev 0

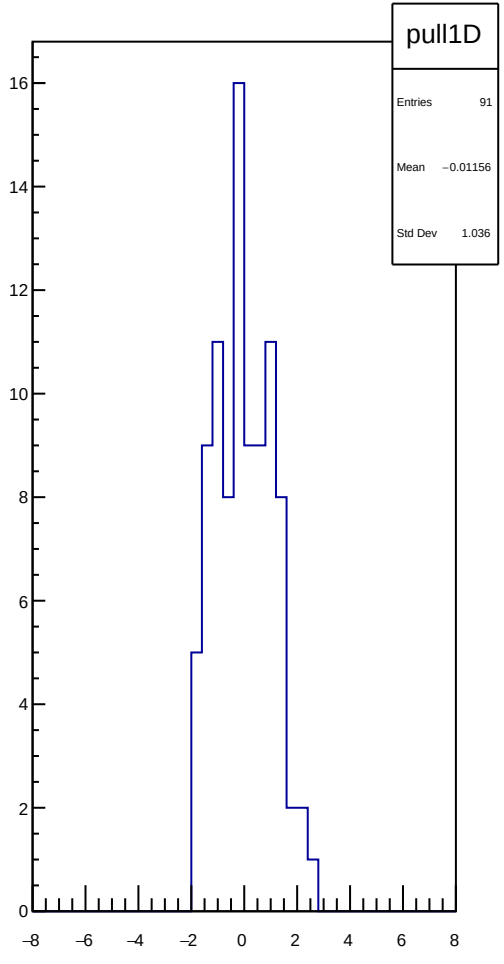

pull1D
Entries 91
Mean −0.006863
Std Dev 0.9197

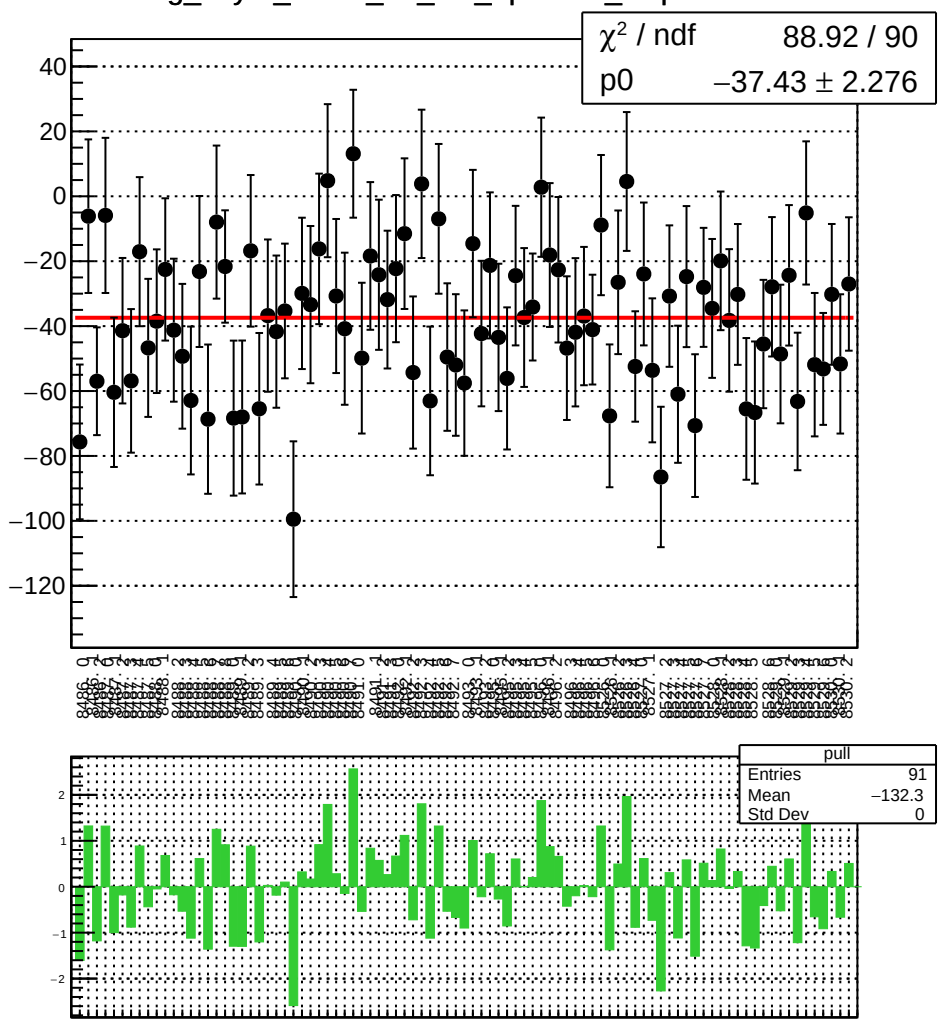

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 92.85 / 90
p0 −49.11 ± 35.94
1000
500
0
−500
−1000
−1500
pull
Entries 91
Mean −46.13
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

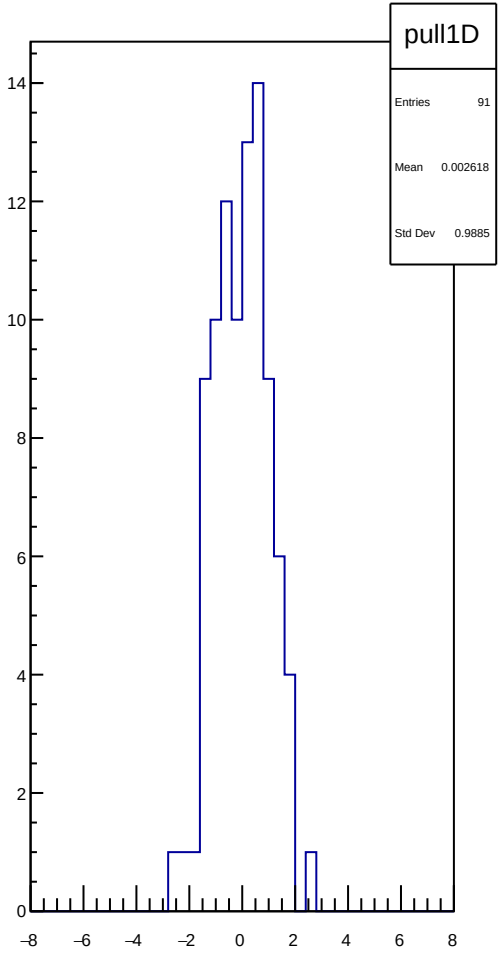

pull1D
Entries 91
Mean 0.01078
Std Dev 1.01
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

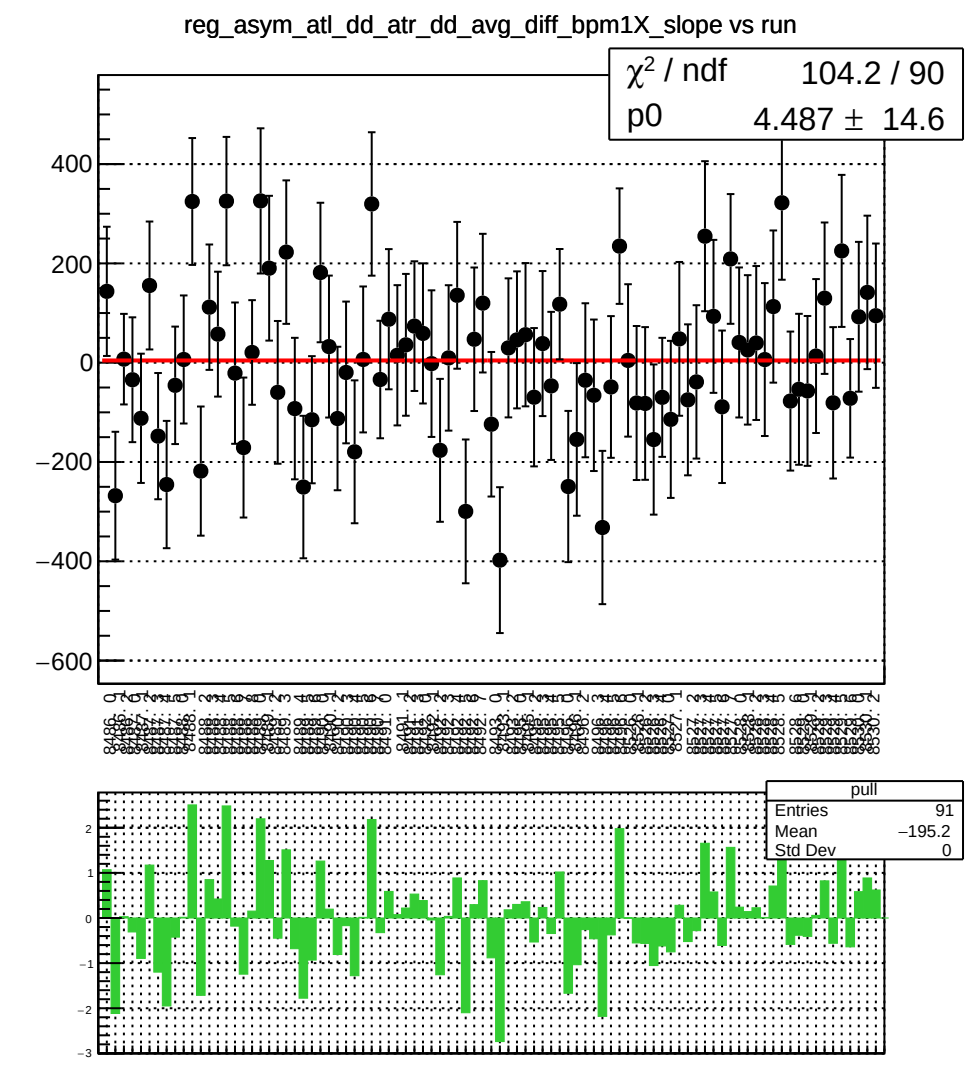

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 78.29 / 90
p0 16.72 ± 24.37
pull
Entries 91
Mean −201.1
Std Dev 0
pull1D
Entries 91
Mean 0.0105
Std Dev 0.9275

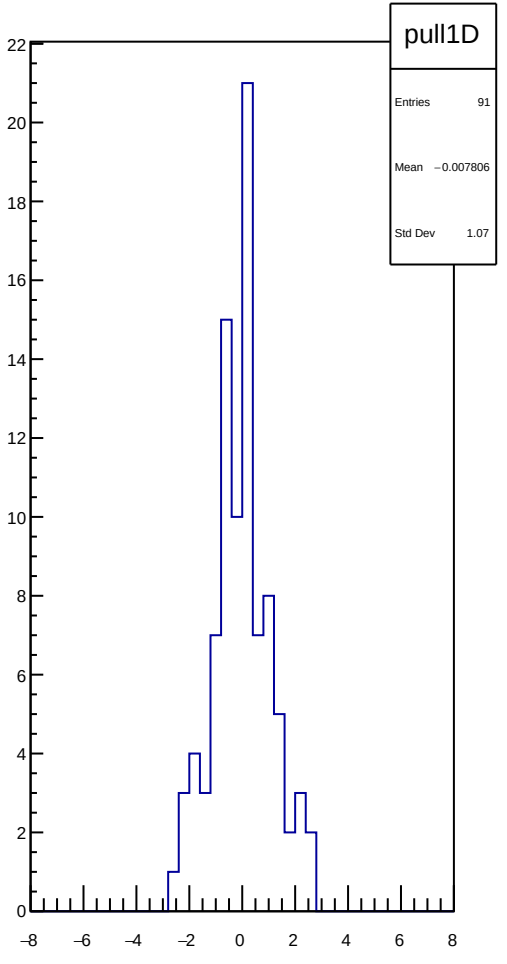

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 97.75 / 90
p0 53.08 ± 38.07
1500
1000
500
0
−500
−1000
pull
Entries 91
Mean −40.17
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

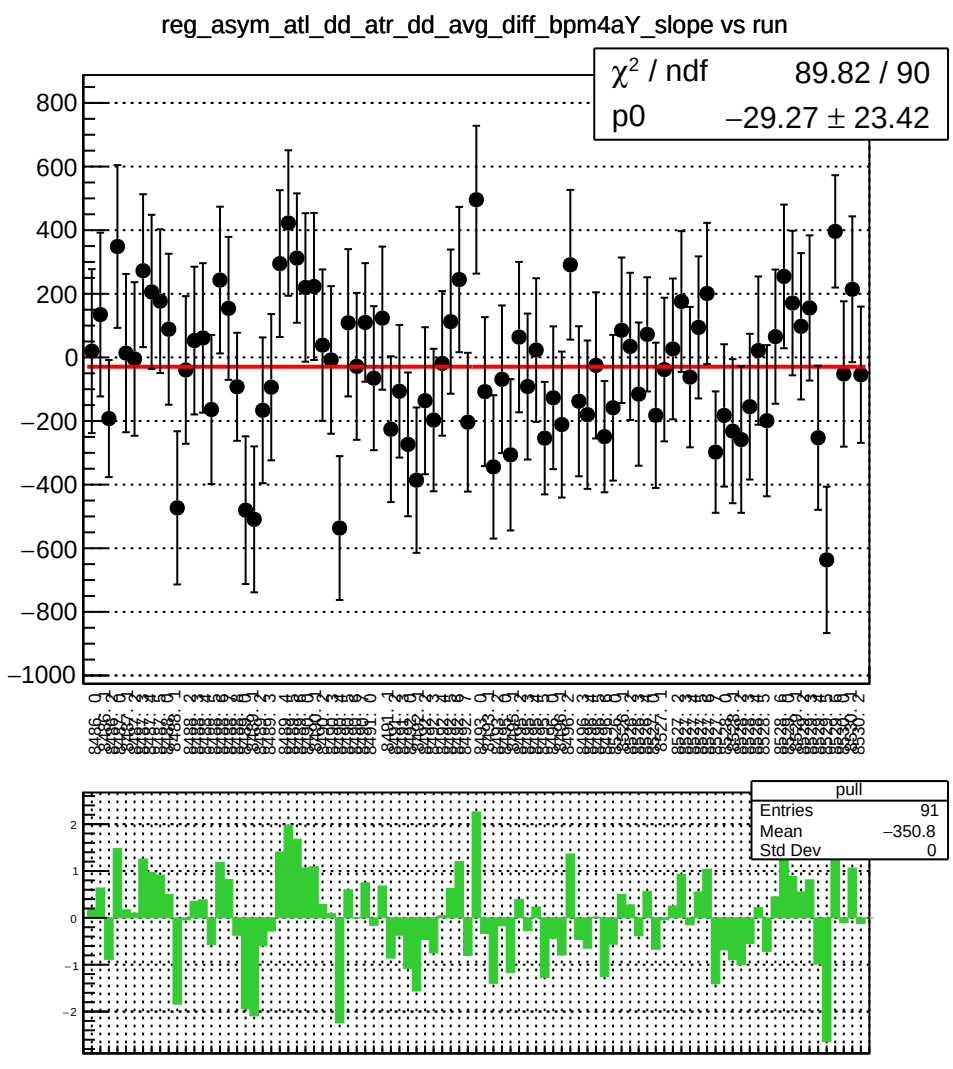

pull1D
Entries 91
Mean −0.01156
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

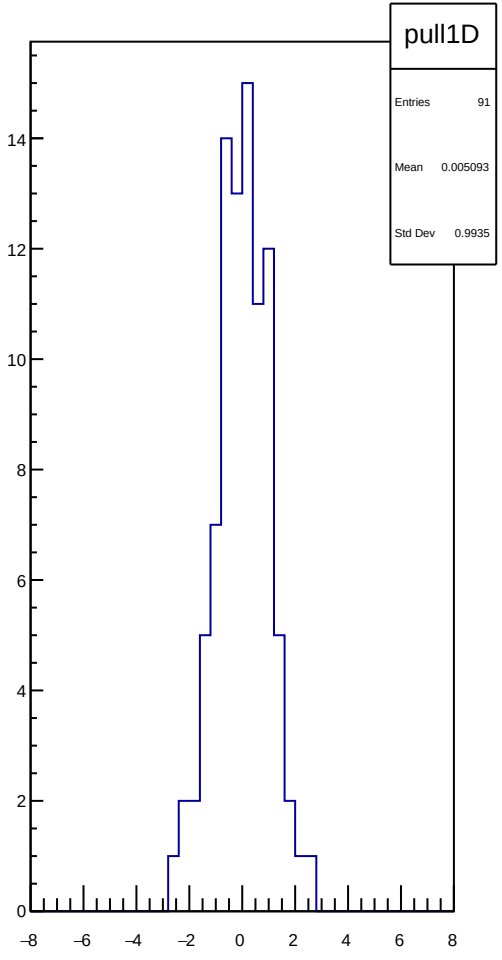

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 88.92 / 90
p0 −37.43 ± 2.276
pull
Entries 91
Mean −132.3
Std Dev 0

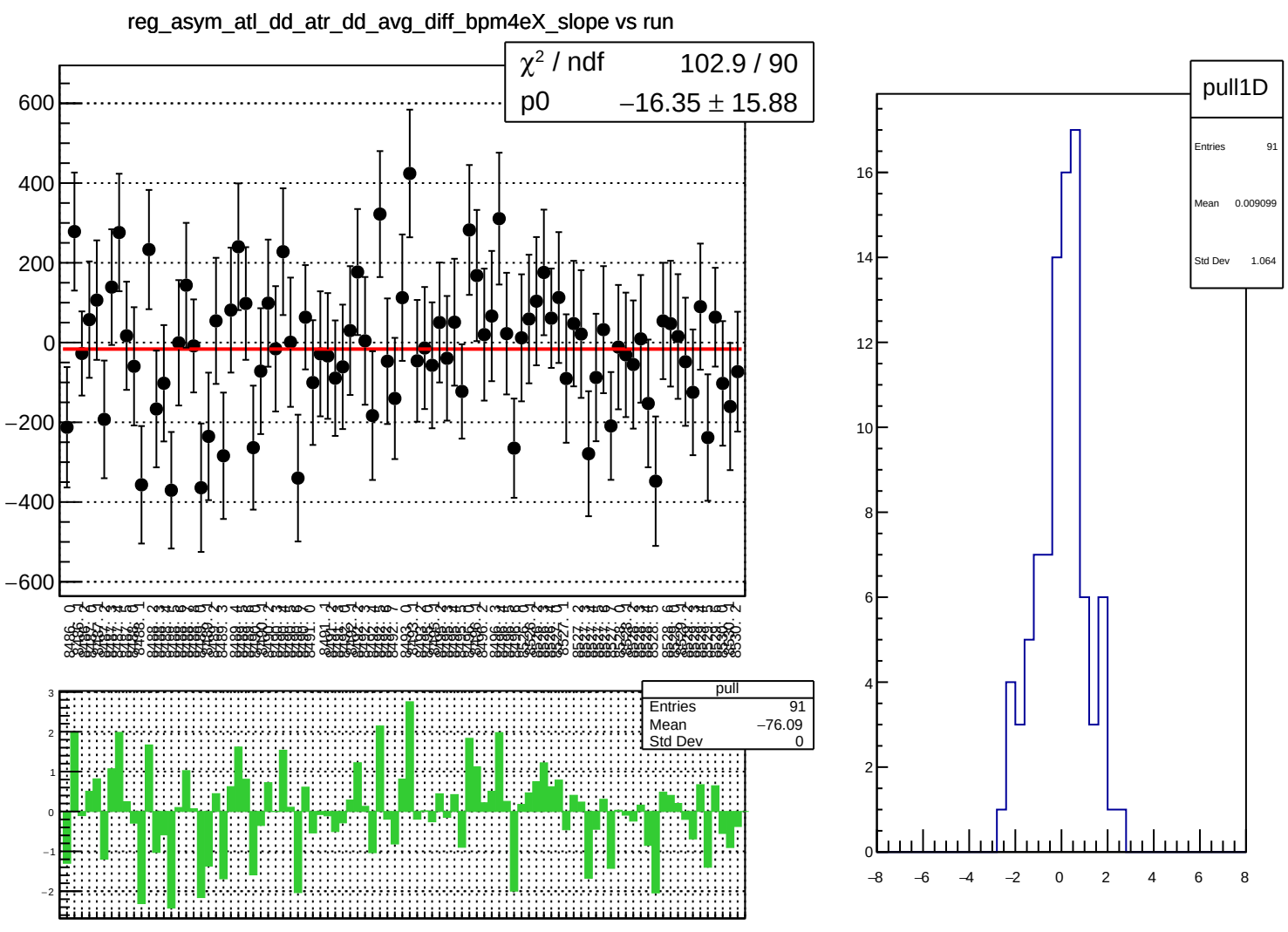

pull1D
Entries 91
Mean 0.002618
Std Dev 0.9885

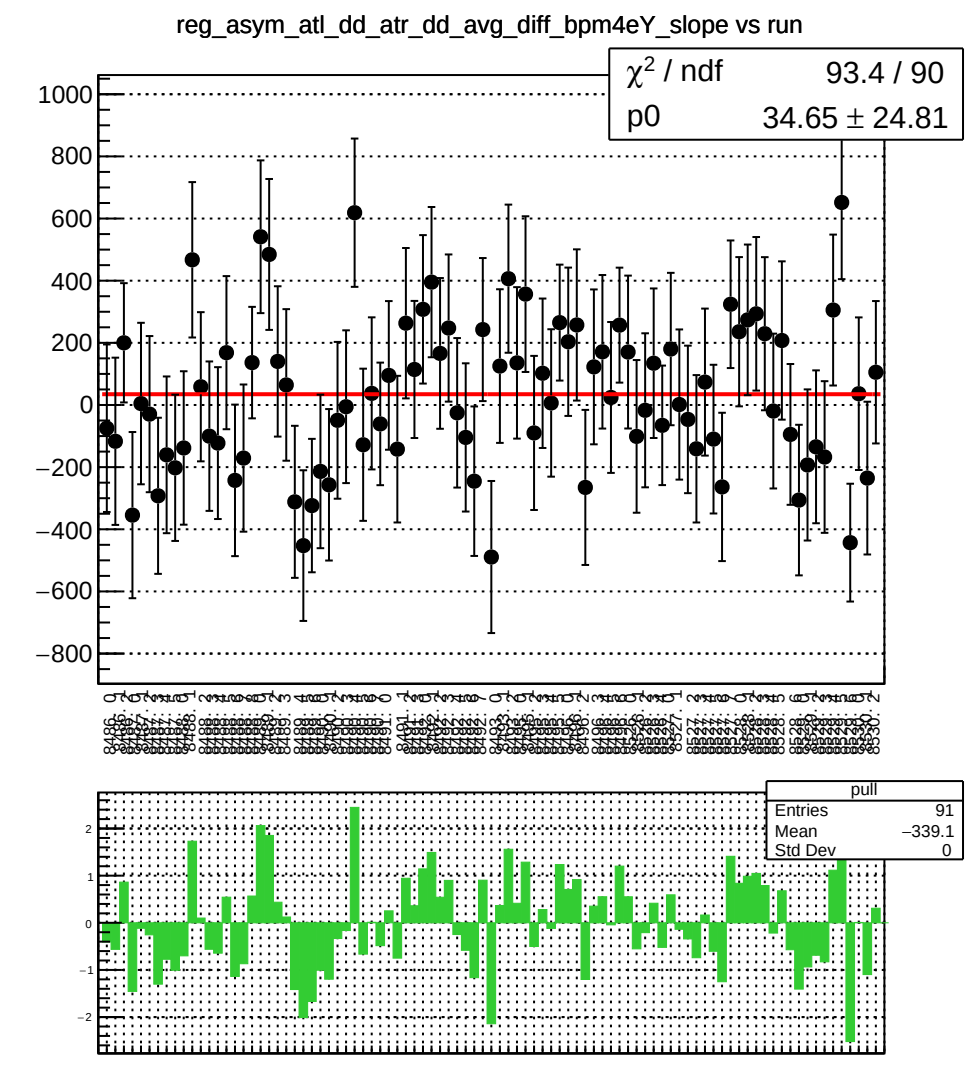

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 104.2 / 90
p0 4.487 ± 14.6
400
200
0
−200
−400
−600
pull
Entries 91
Mean −195.2
Std Dev 0
2
1
0
−1
−2
−3

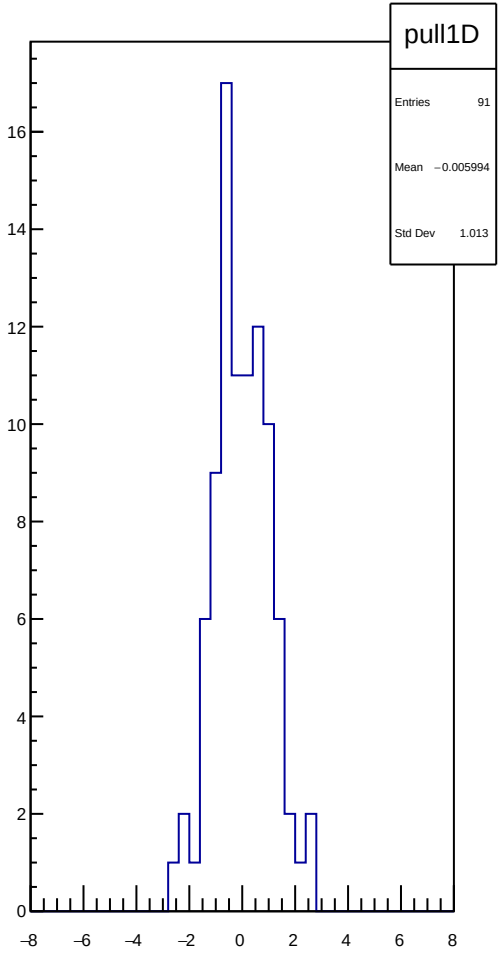

pull1D
Entries 91
Mean −0.007806
Std Dev 1.07
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

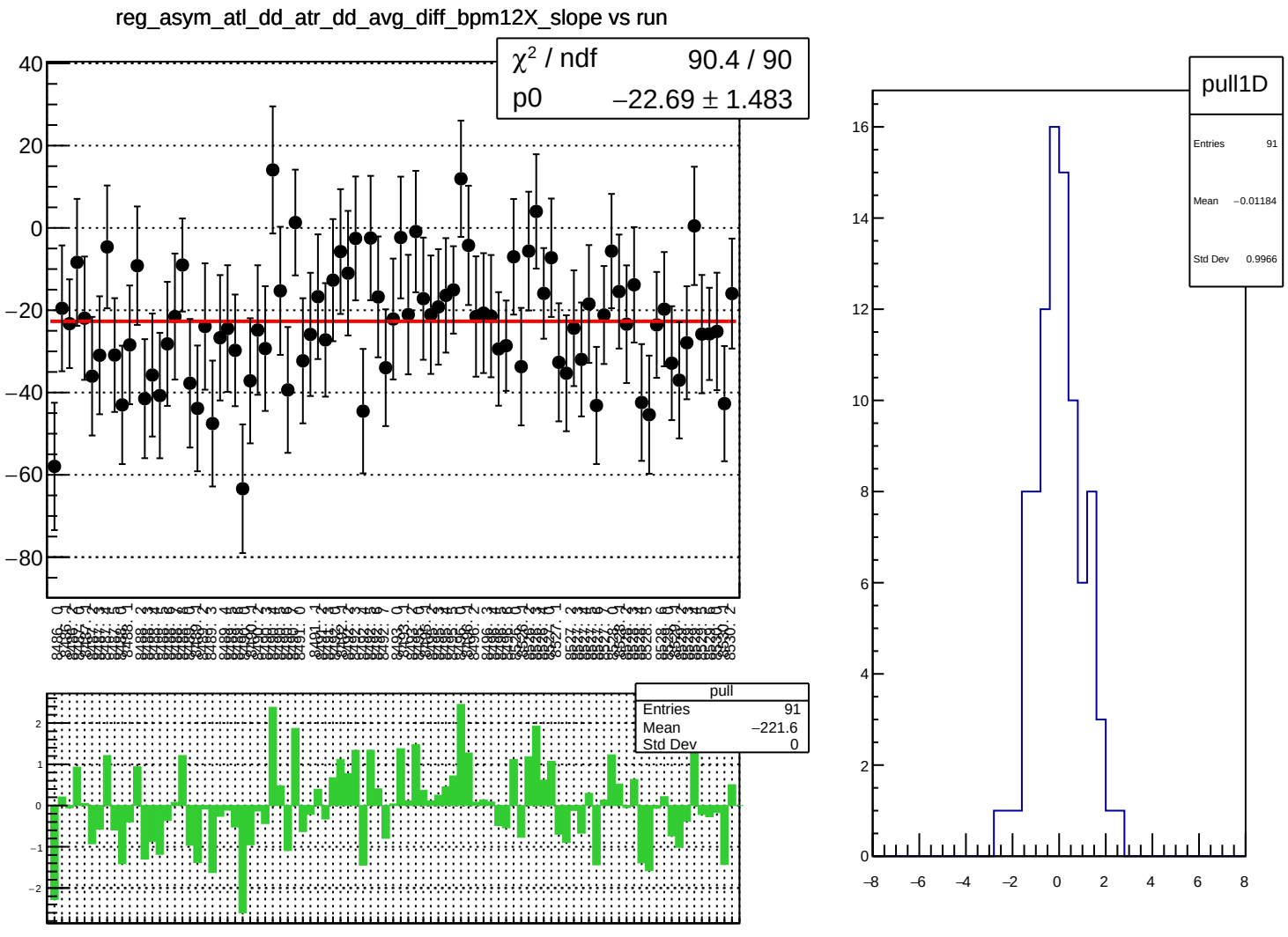

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 89.82 / 90
p0 −29.27 ± 23.42
pull
Entries 91
Mean −350.8
Std Dev 0

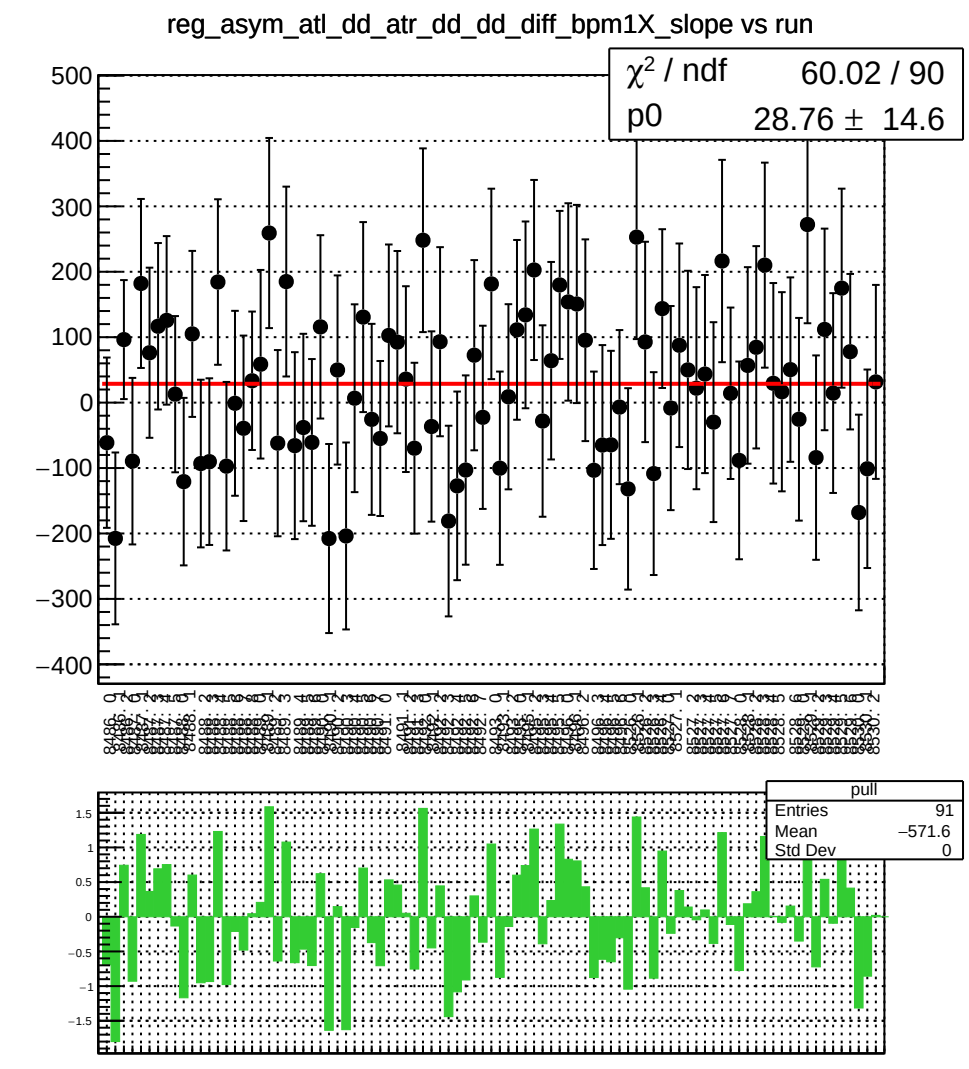

pull1D
Entries 91
Mean 0.005093
Std Dev 0.9935

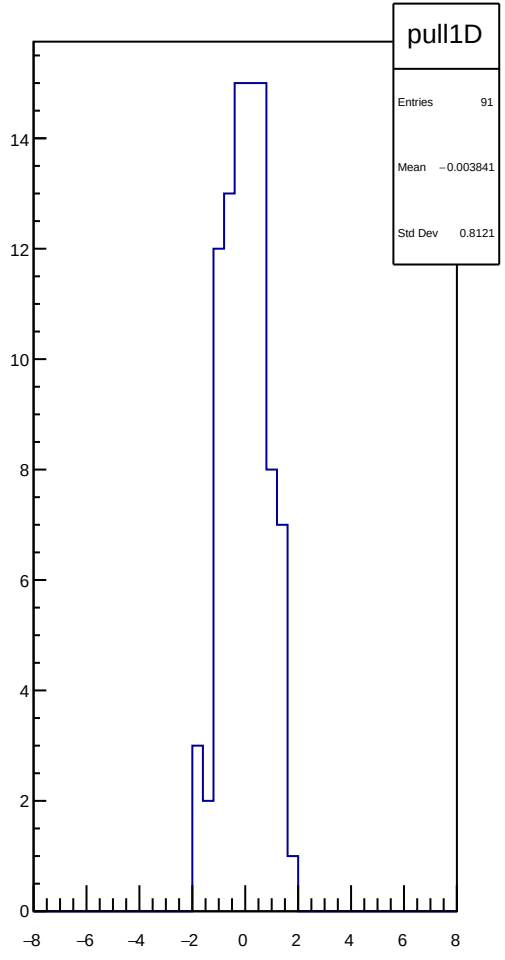

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 102.9 / 90
p0 −16.35 ± 15.88
600
400
200
0
−200
−400
−600
pull
Entries 91
Mean −76.09
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.009099
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

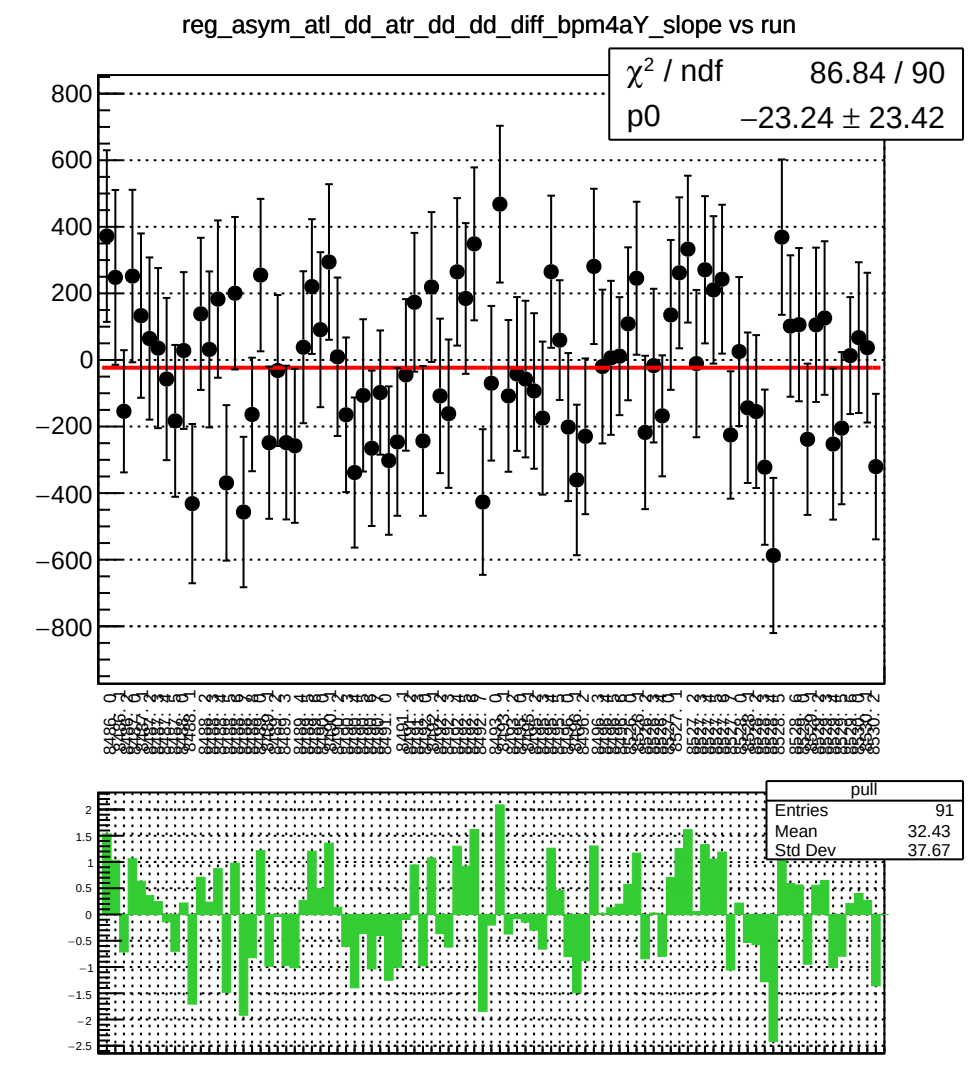

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 93.4 / 90
p0 34.65 ± 24.81
pull
Entries 91
Mean −339.1
Std Dev 0

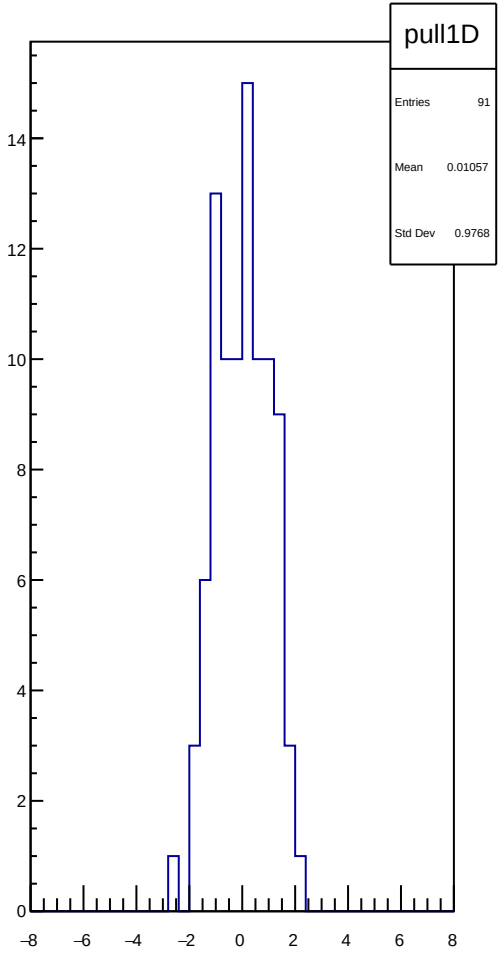

pull1D
Entries 91
Mean −0.005994
Std Dev 1.013

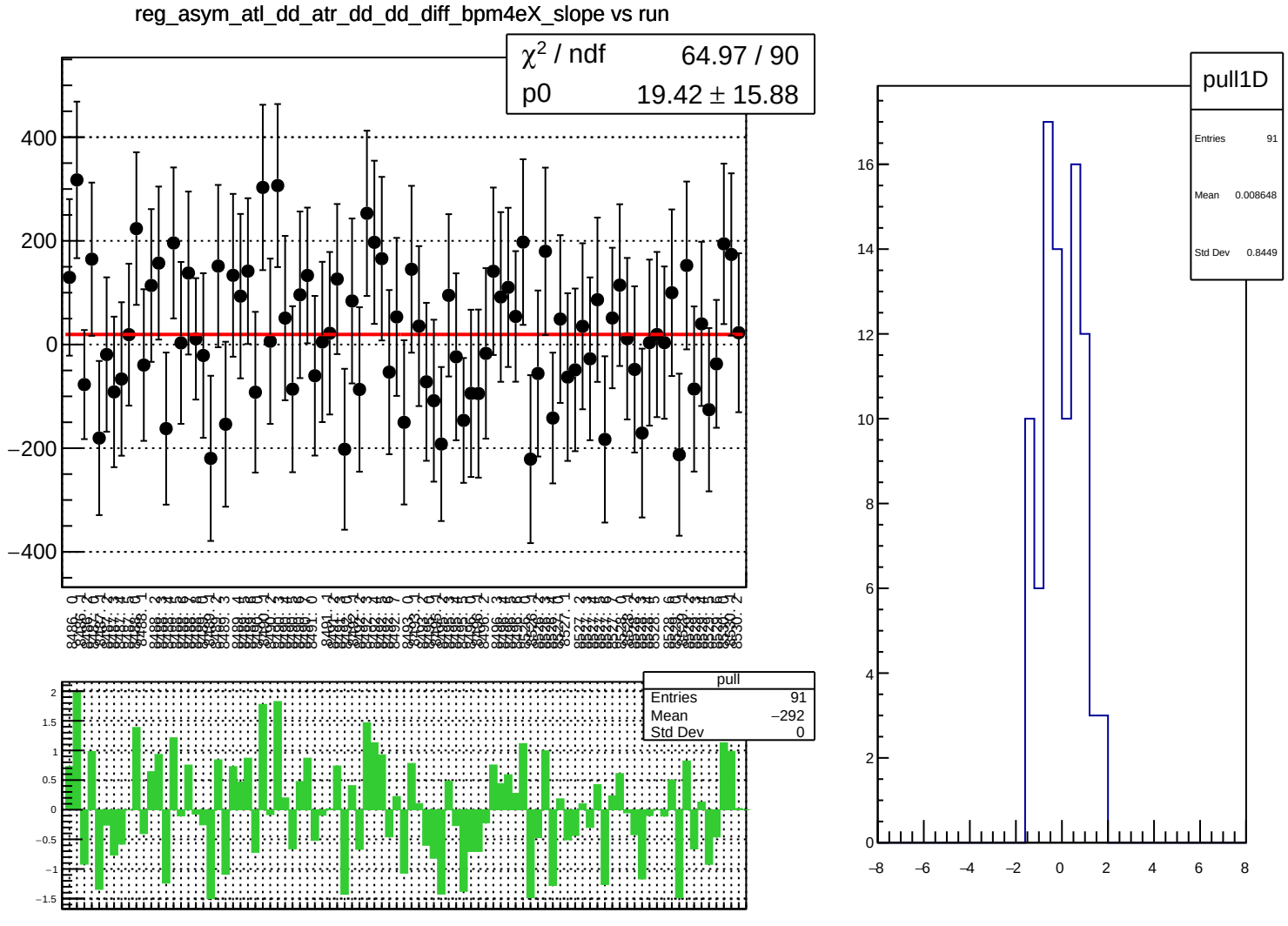

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 90.4 / 90
p0 −22.69 ± 1.483
pull
Entries 91
Mean −221.6
Std Dev 0
pull1D
Entries 91
Mean −0.01184
Std Dev 0.9966

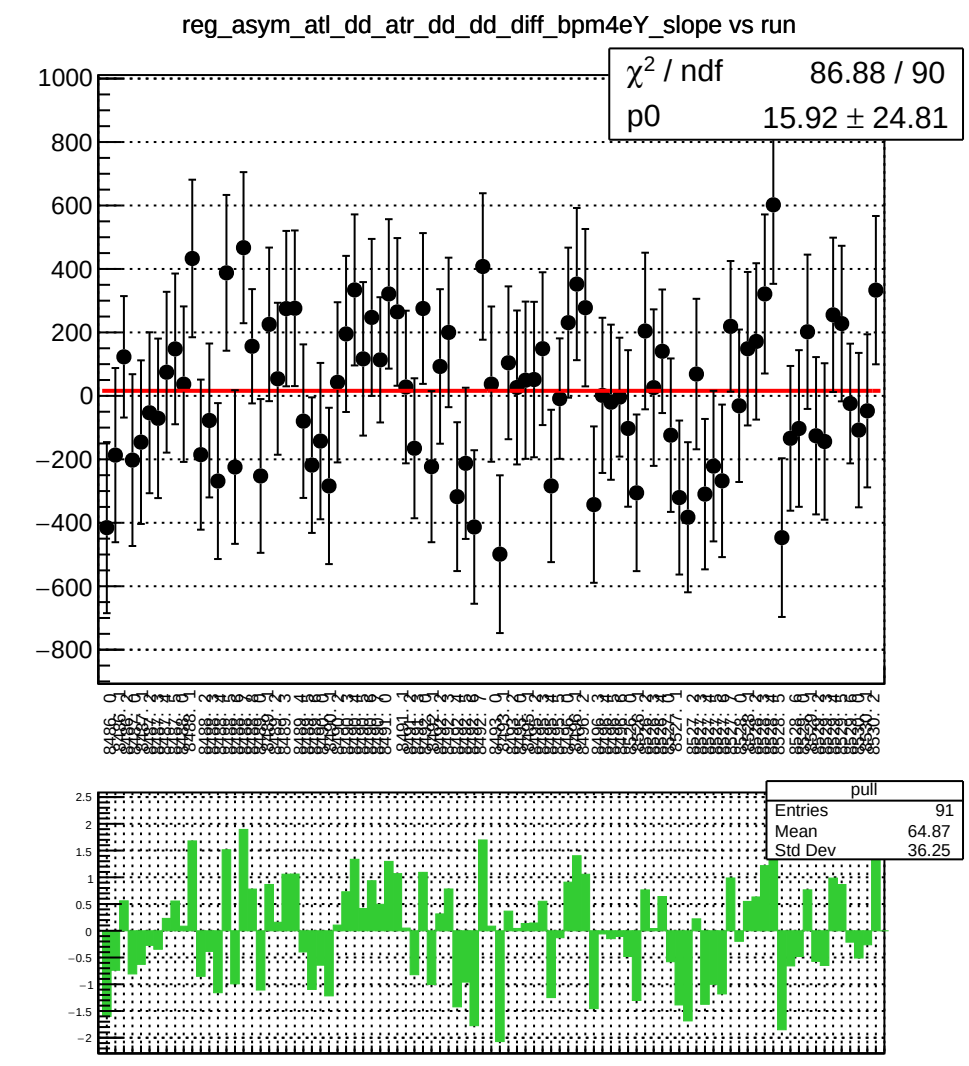

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 60.02 / 90
p0 28.76 ± 14.6
pull
Entries 91
Mean −571.6
Std Dev 0

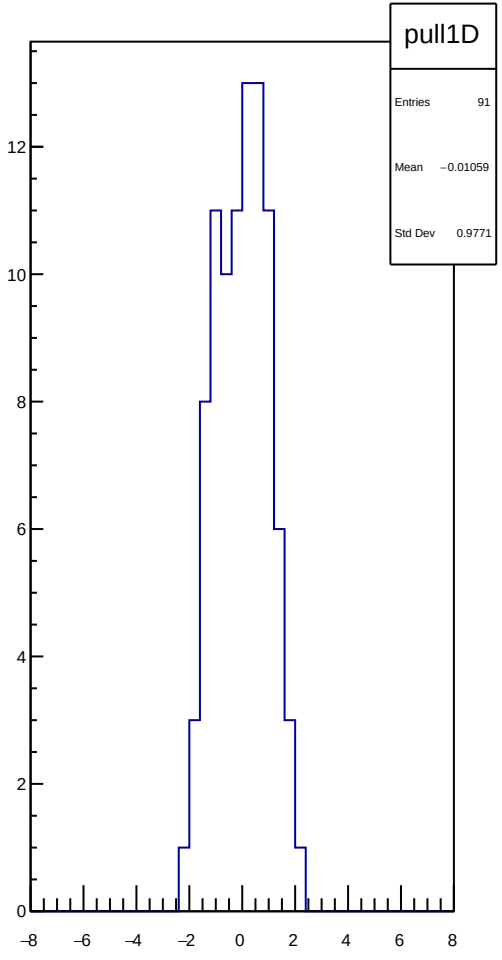

pull1D
Entries 91
Mean −0.003841
Std Dev 0.8121

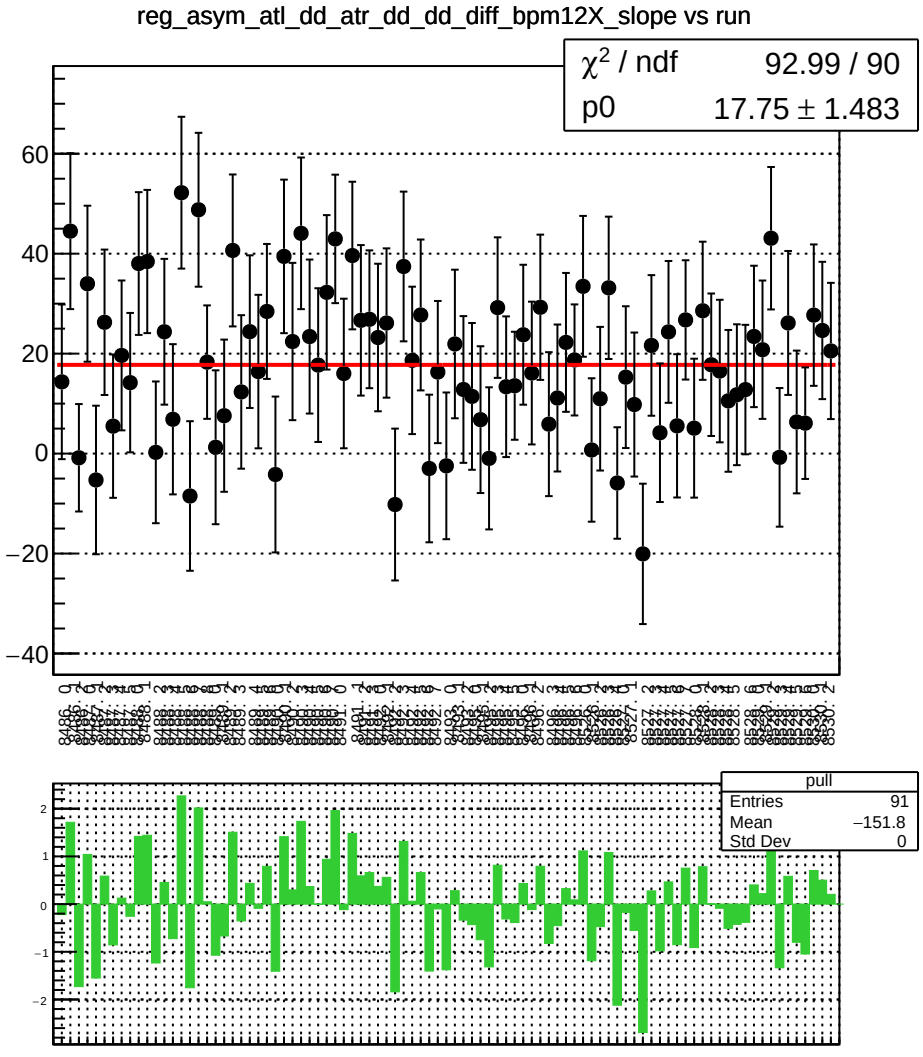

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 86.84 / 90
p0 −23.24 ± 23.42
pull
Entries 91
Mean 32.43
Std Dev 37.67

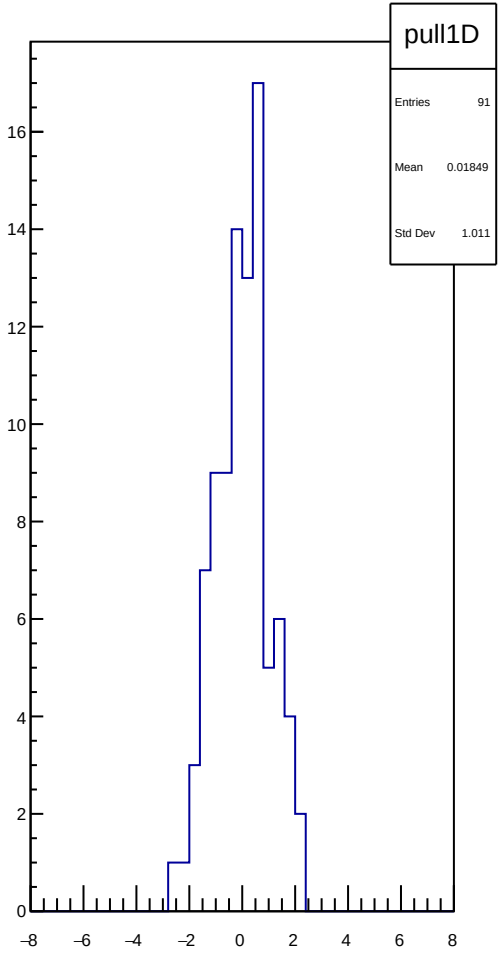

pull1D
Entries 91
Mean 0.01057
Std Dev 0.9768

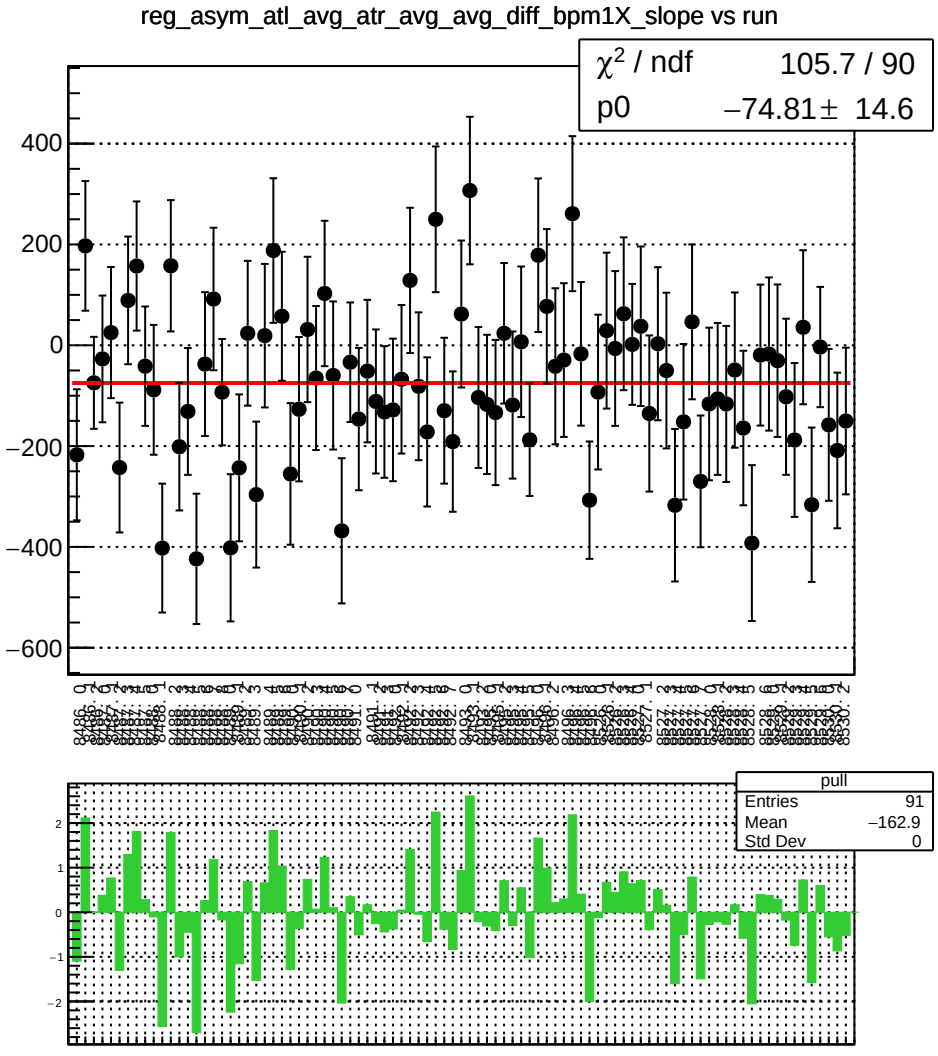

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 64.97 / 90
p0 19.42 ± 15.88
400
200
0
−200
−400
pull
Entries 91
Mean −292
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 91
Mean 0.008648
Std Dev 0.8449
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

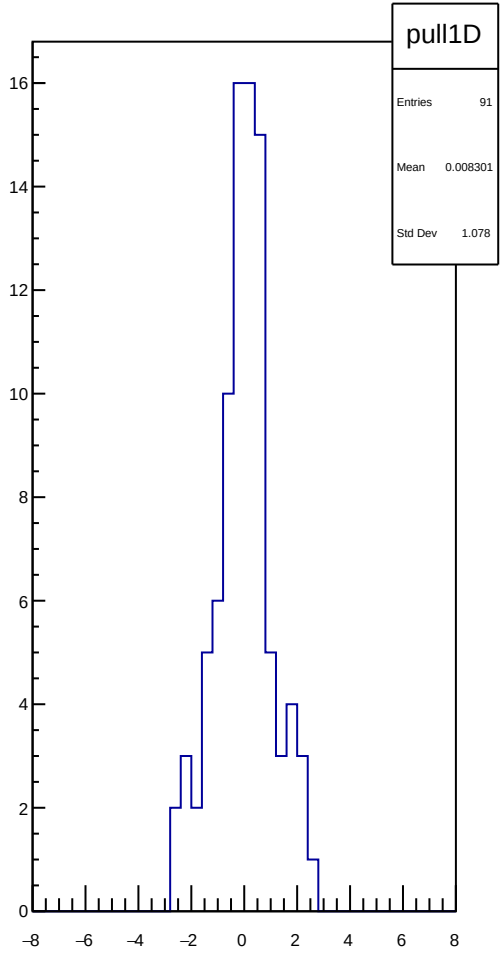

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 86.88 / 90
p0 15.92 ± 24.81
pull
Entries 91
Mean 64.87
Std Dev 36.25

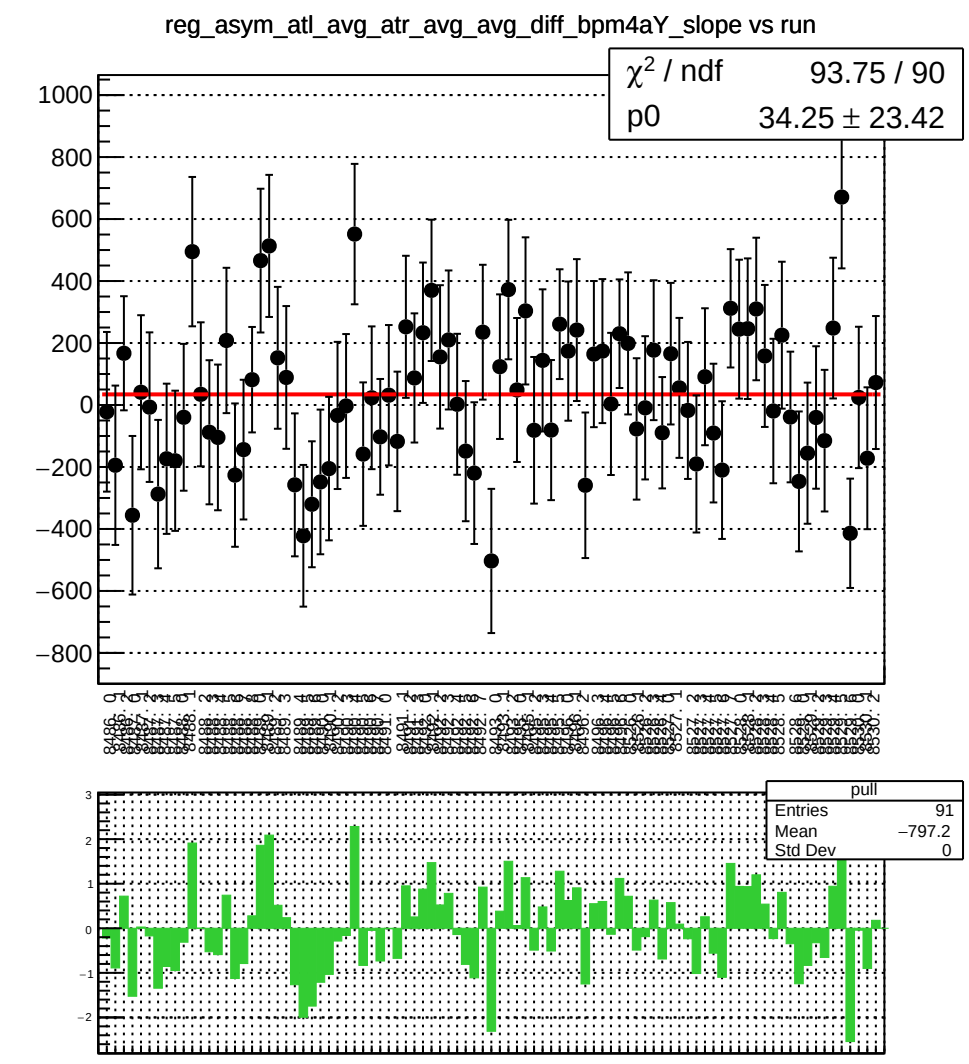

pull1D
Entries 91
Mean −0.01059
Std Dev 0.9771

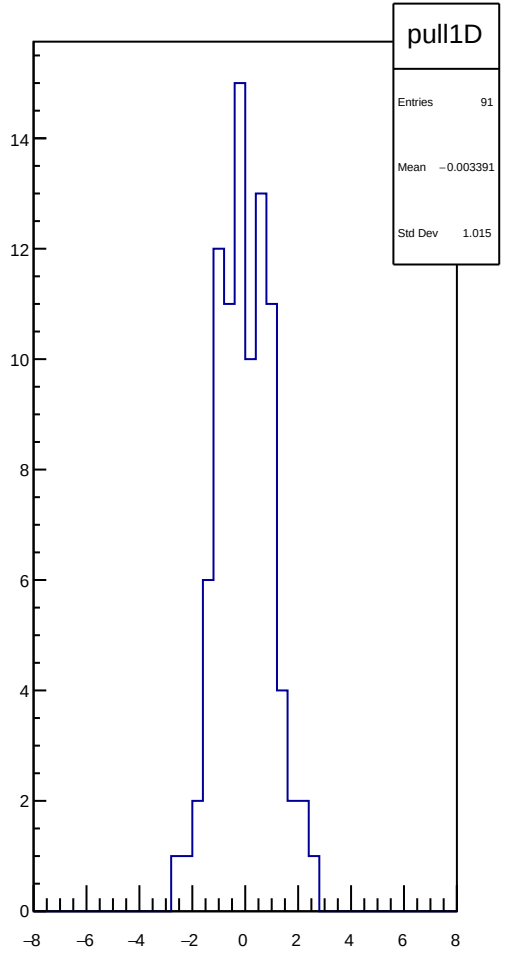

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 92.99 / 90
p0 17.75 ± 1.483
pull
Entries 91
Mean −151.8
Std Dev 0

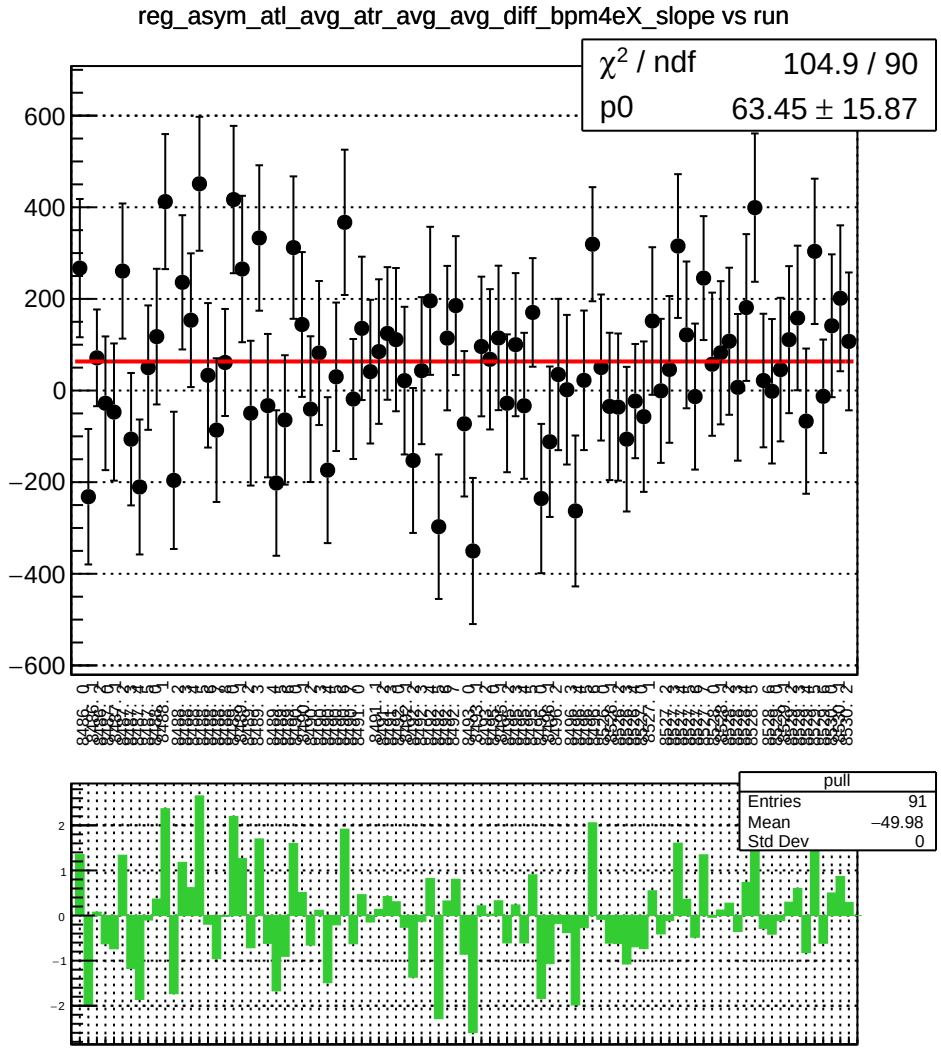

pull1D
Entries 91
Mean 0.01849
Std Dev 1.011

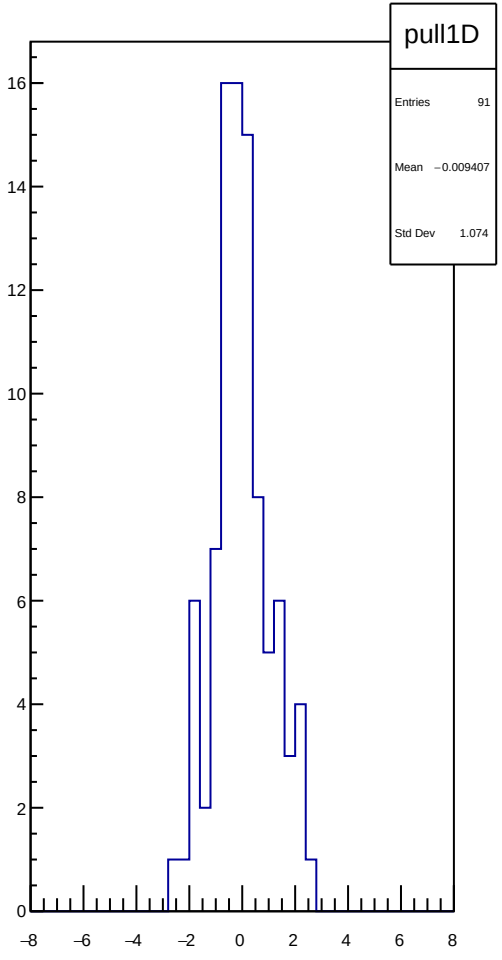

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 105.7 / 90
p0 −74.81 ± 14.6
400
200
0
−200
−400
−600
pull
Entries 91
Mean −162.9
Std Dev 0
2
1
0
−1
−2

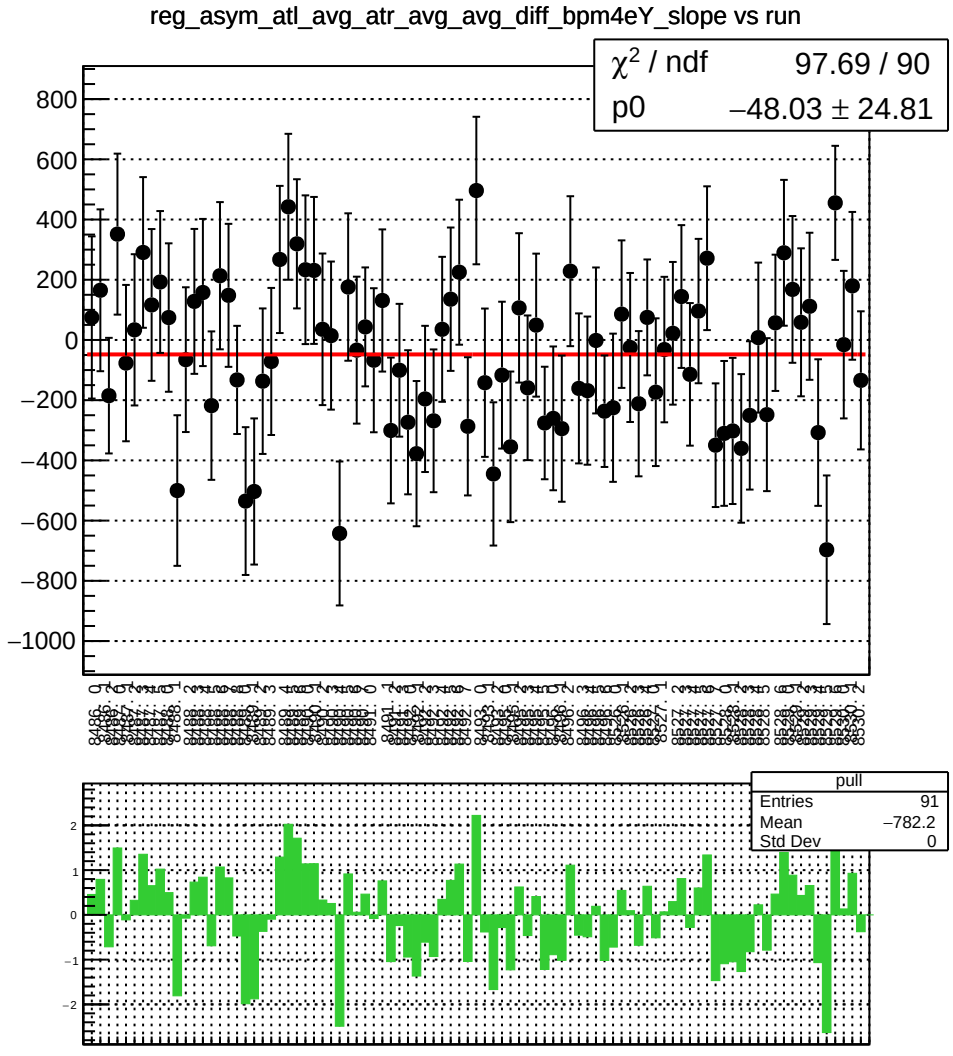

pull1D
Entries 91
Mean 0.008301
Std Dev 1.078
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

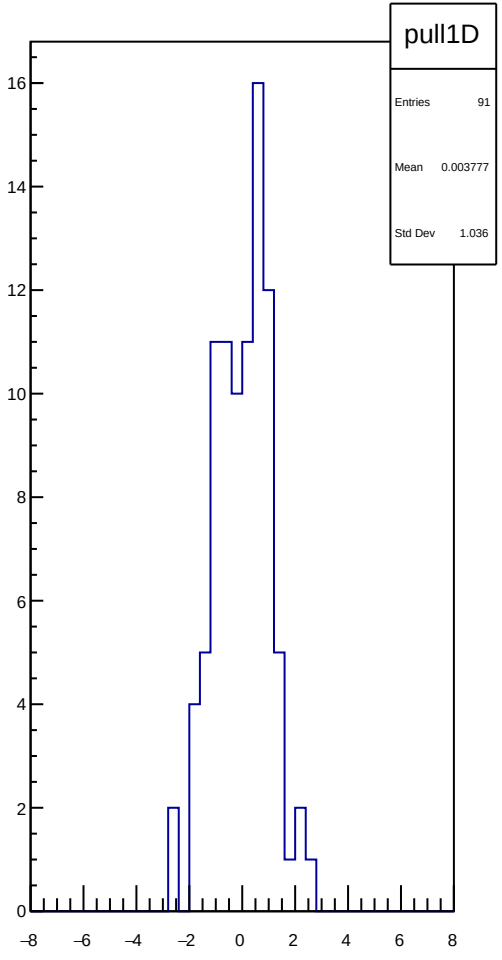

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 93.75 / 90
p0 34.25 ± 23.42
pull
Entries 91
Mean −797.2
Std Dev 0

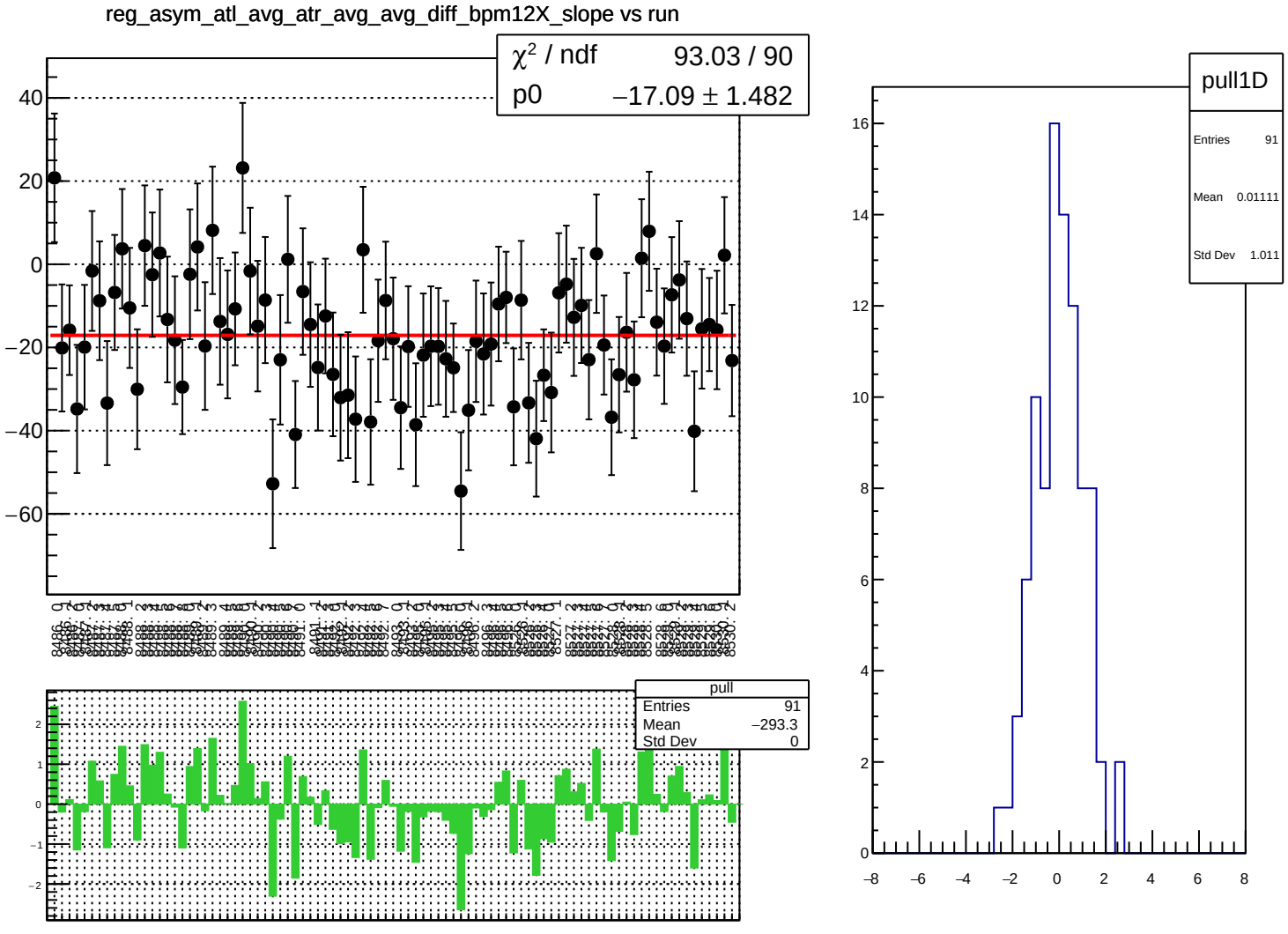

pull1D
Entries 91
Mean −0.003391
Std Dev 1.015

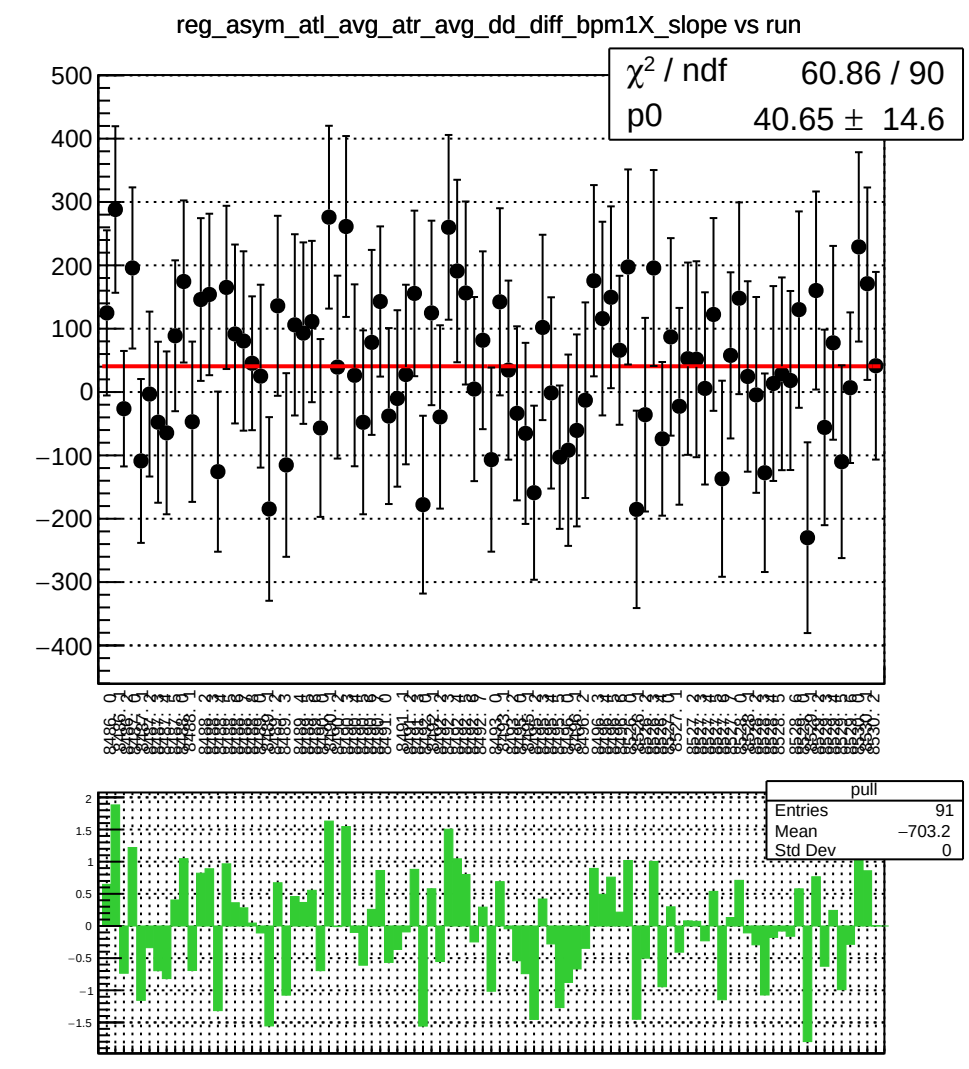

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 104.9 / 90
p0 63.45 ± 15.87
pull
Entries 91
Mean −49.98
Std Dev 0

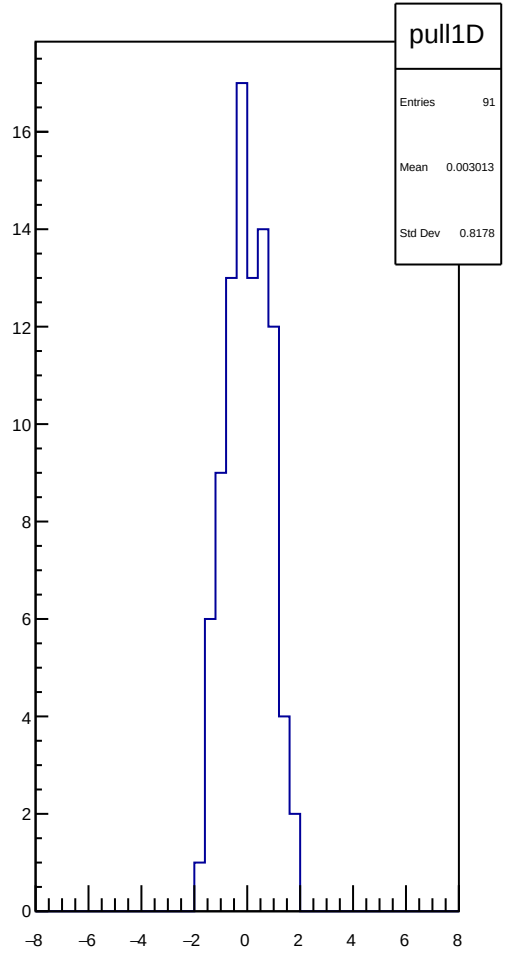

pull1D
Entries 91
Mean −0.009407
Std Dev 1.074

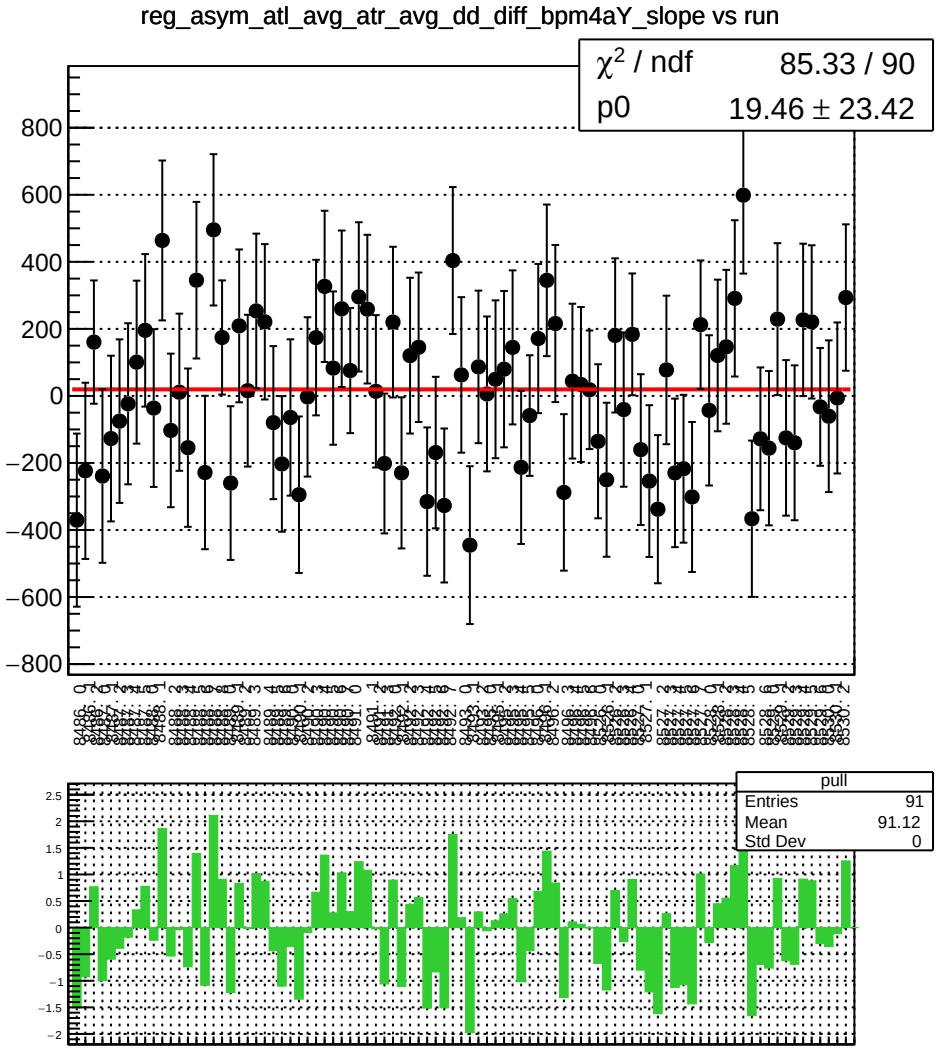

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 97.69 / 90
p0 −48.03 ± 24.81
pull
Entries 91
Mean −782.2
Std Dev 0

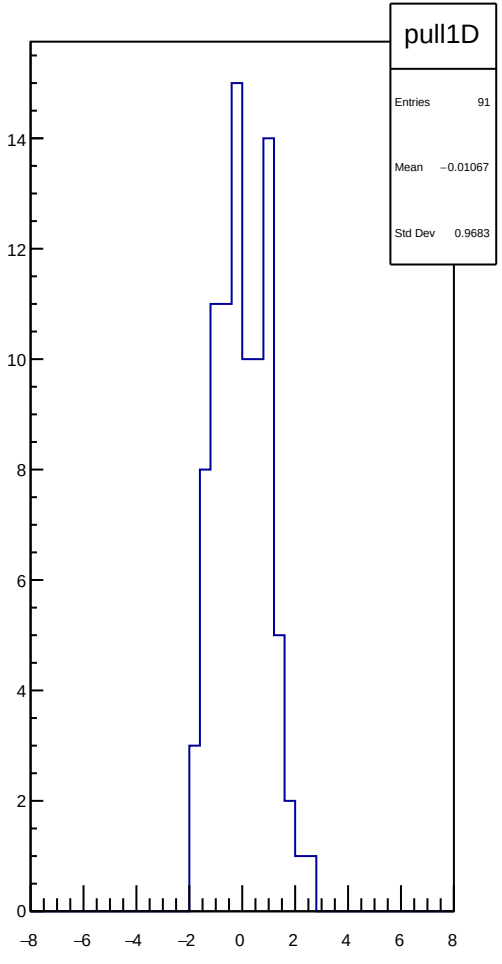

pull1D
Entries 91
Mean 0.003777
Std Dev 1.036

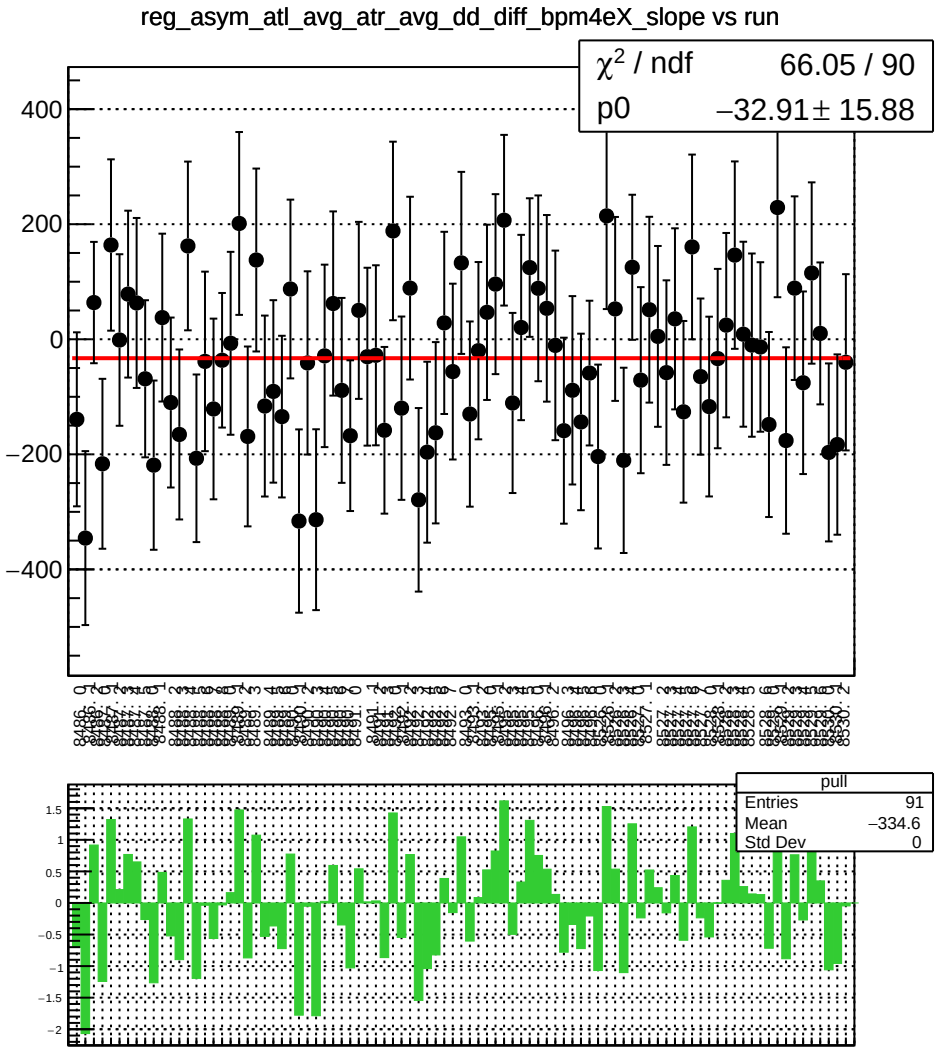

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 93.03 / 90
p0 −17.09 ± 1.482
40
20
0
−20
−40
−60
pull
Entries 91
Mean −293.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.01111
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

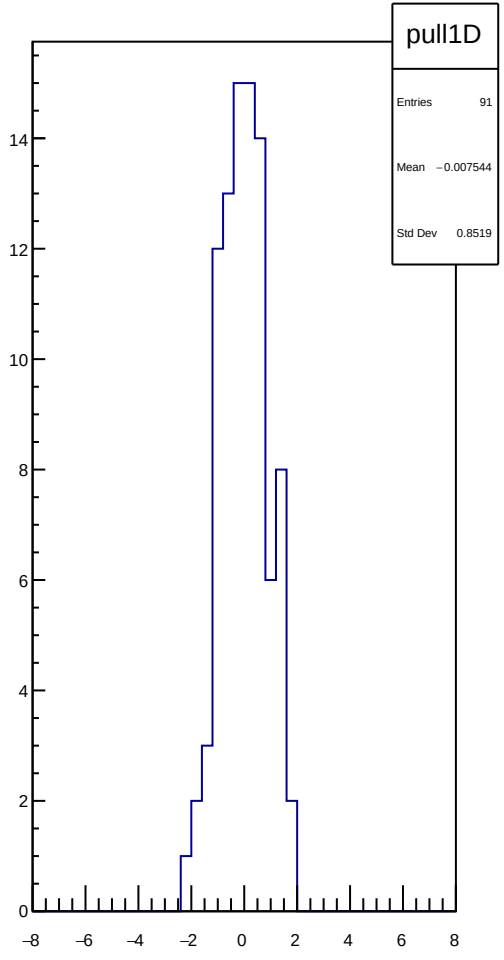

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 60.86 / 90
p0 40.65 ± 14.6
pull
Entries 91
Mean −703.2
Std Dev 0

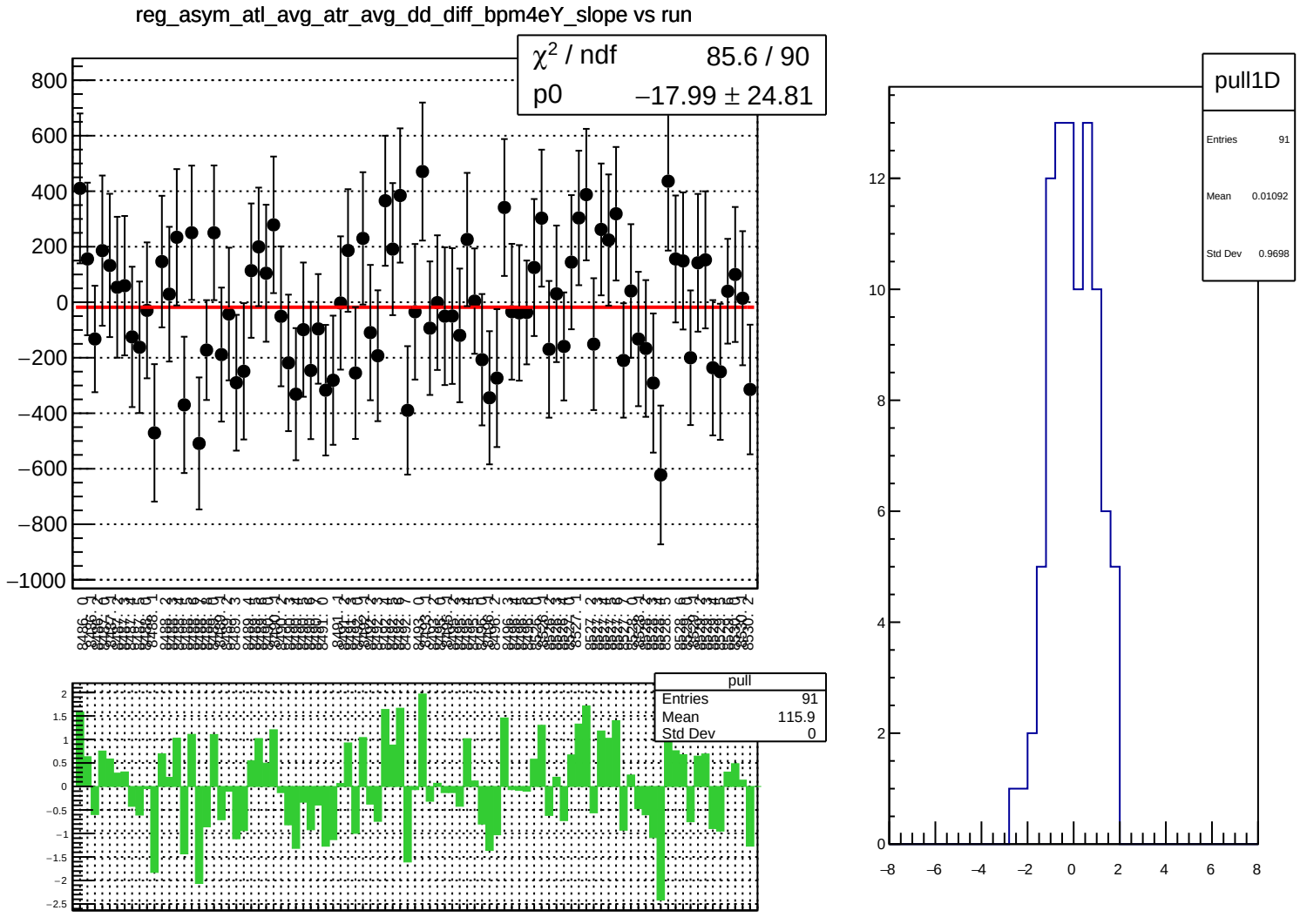

pull1D
Entries 91
Mean 0.003013
Std Dev 0.8178

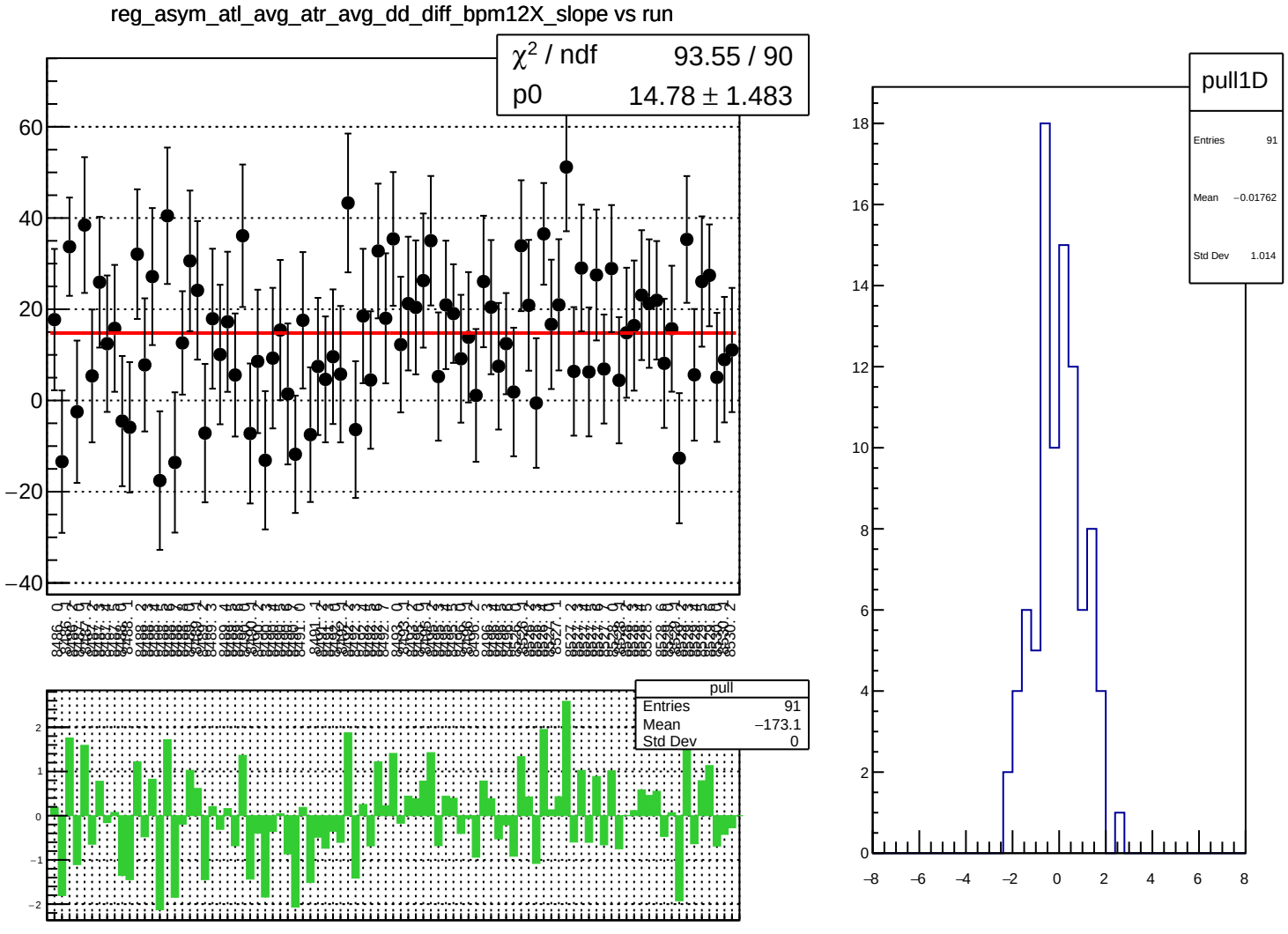

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 85.33 / 90
p0 19.46 ± 23.42
pull
Entries 91
Mean 91.12
Std Dev 0

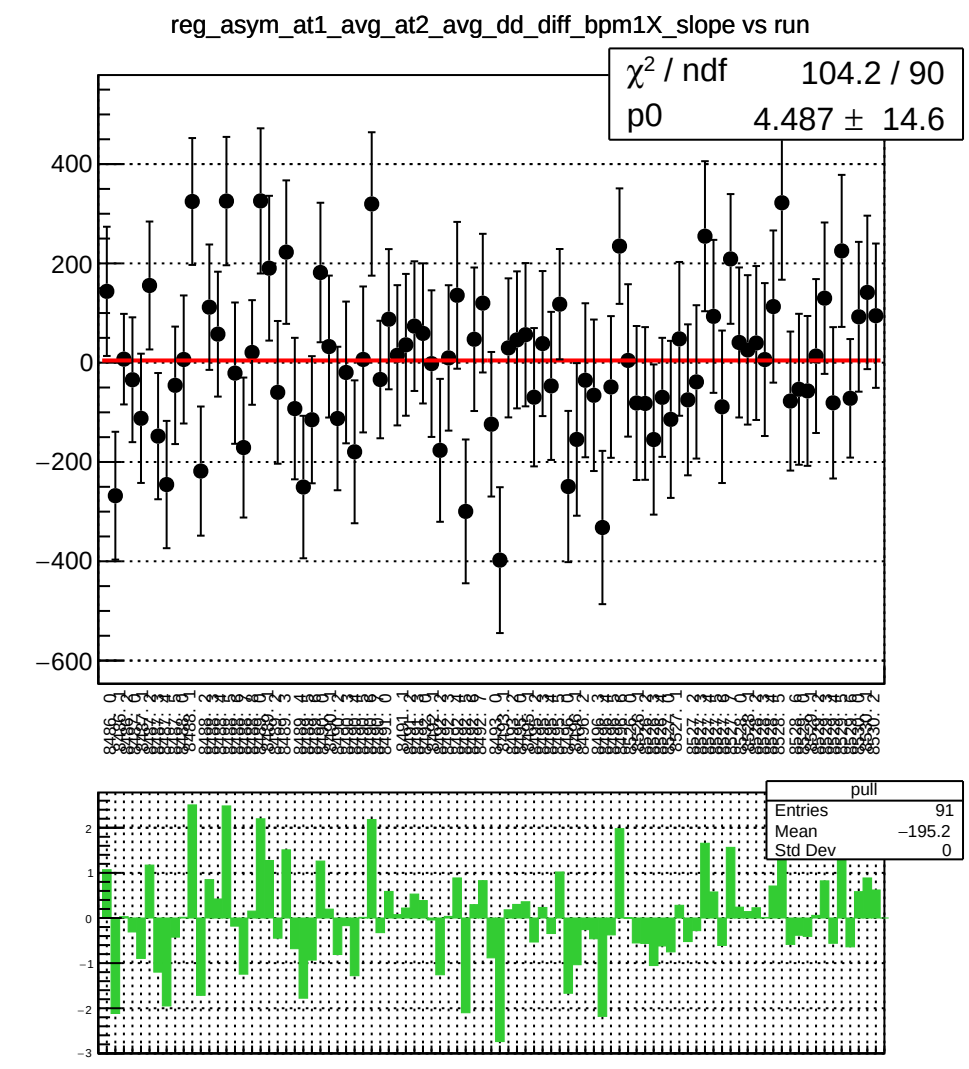

pull1D
Entries 91
Mean −0.01067
Std Dev 0.9683

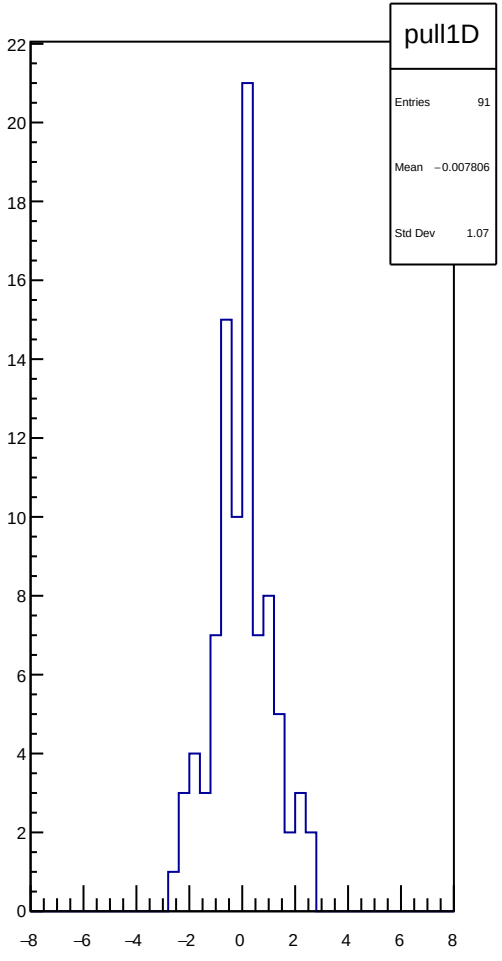

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 66.05 / 90
p0 −32.91 ± 15.88
400
200
0
−200
−400
pull
Entries 91
Mean −334.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

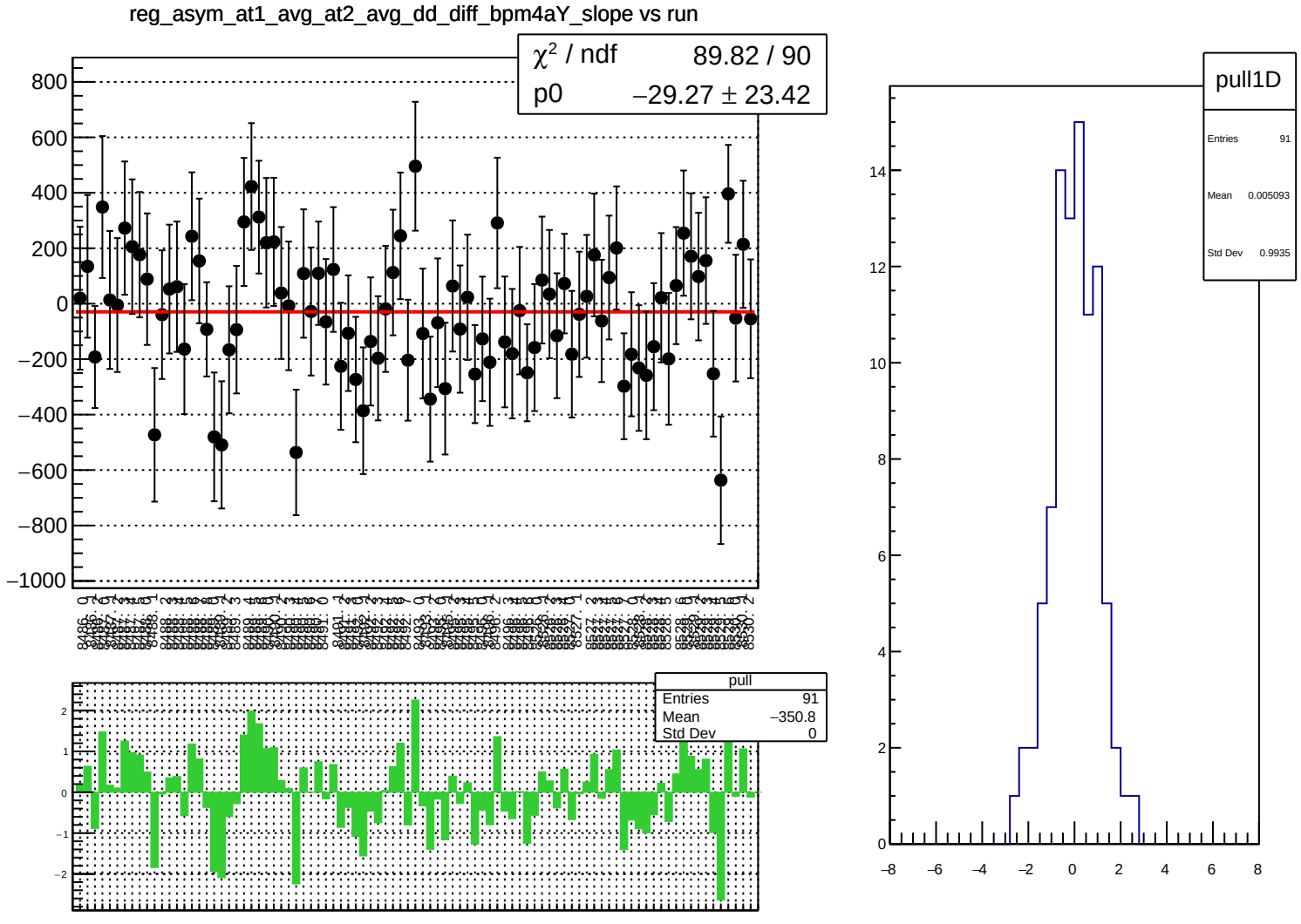

pull1D
Entries 91
Mean −0.007544
Std Dev 0.8519
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

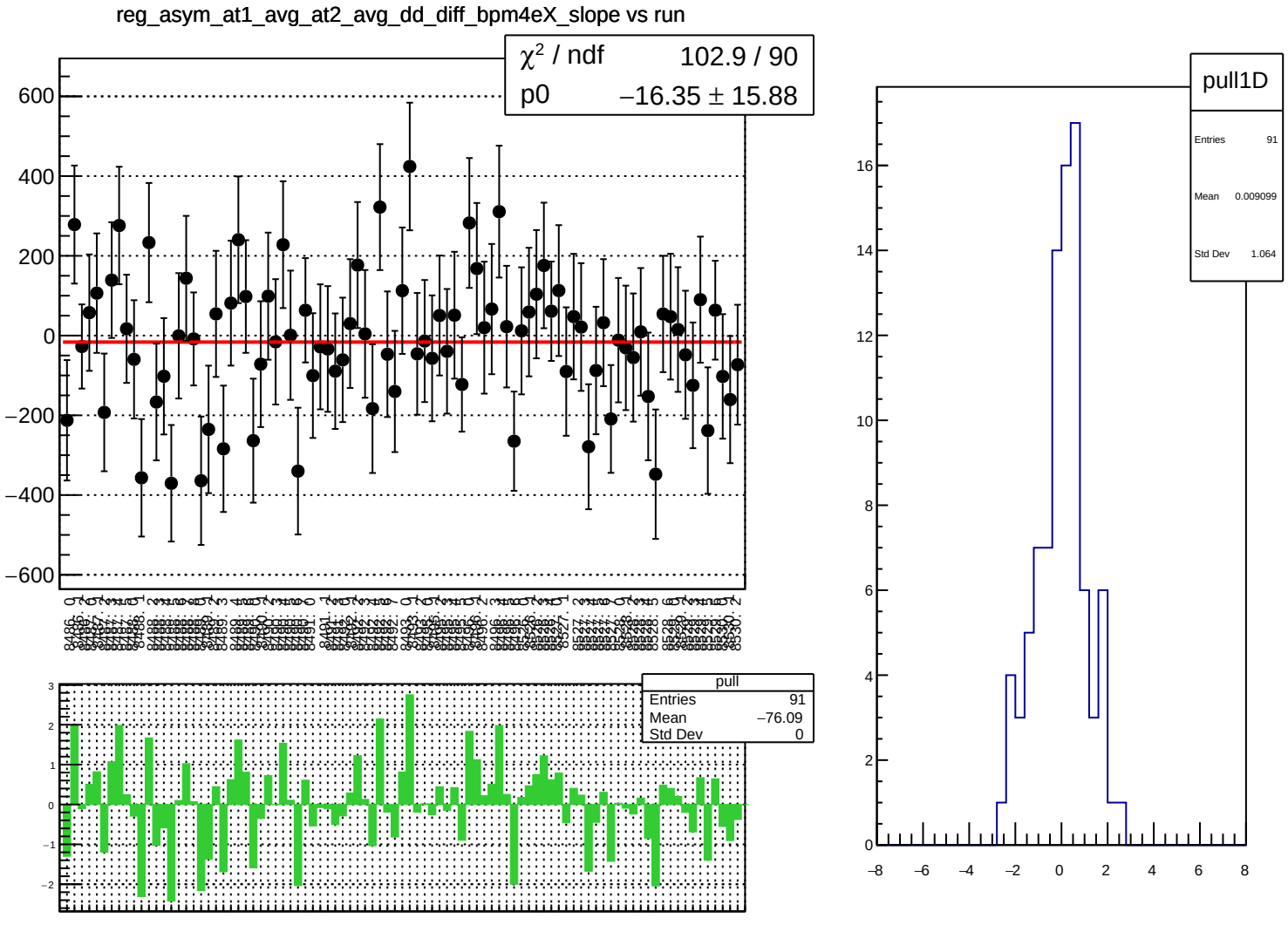

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 85.6 / 90
p0 −17.99 ± 24.81
pull
Entries 91
Mean 115.9
Std Dev 0
pull1D
Entries 91
Mean 0.01092
Std Dev 0.9698

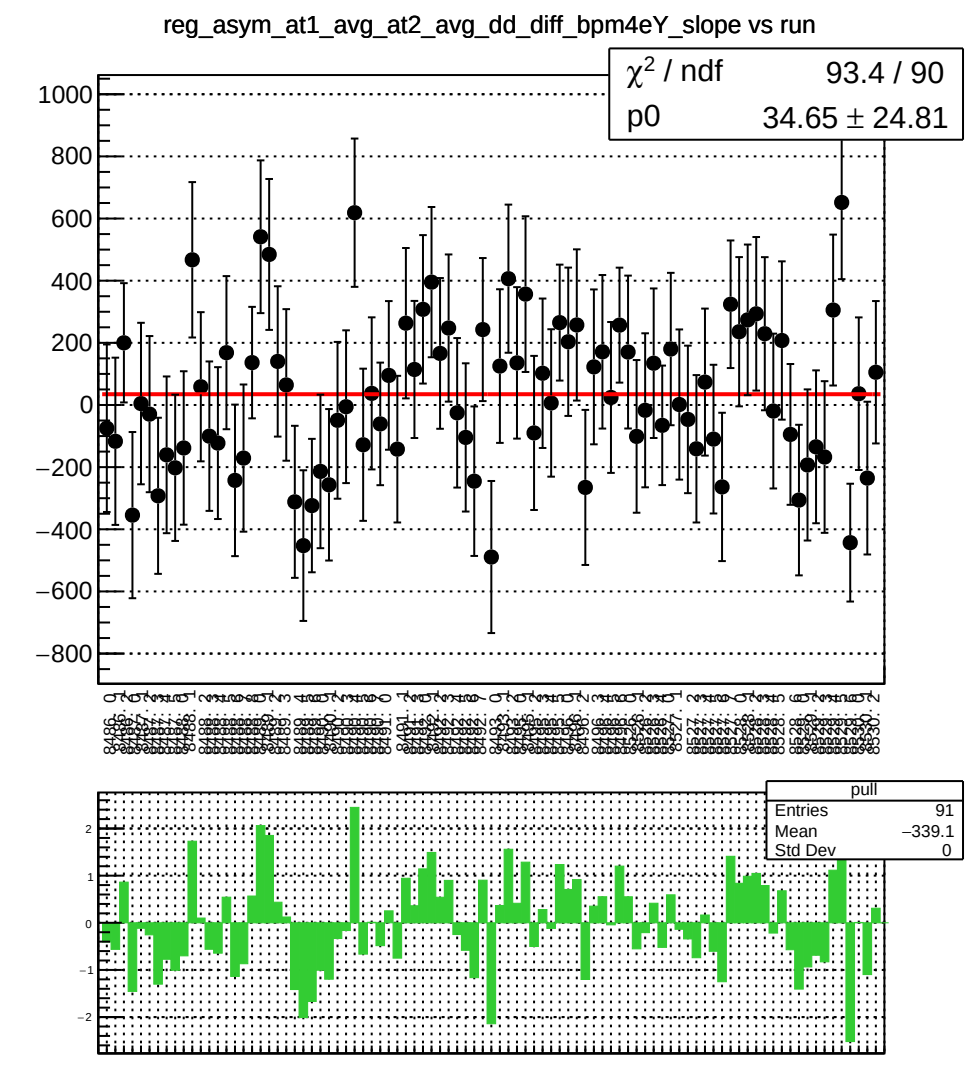

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 93.55 / 90
p0 14.78 ± 1.483
pull
Entries 91
Mean −173.1
Std Dev 0
pull1D
Entries 91
Mean −0.01762
Std Dev 1.014

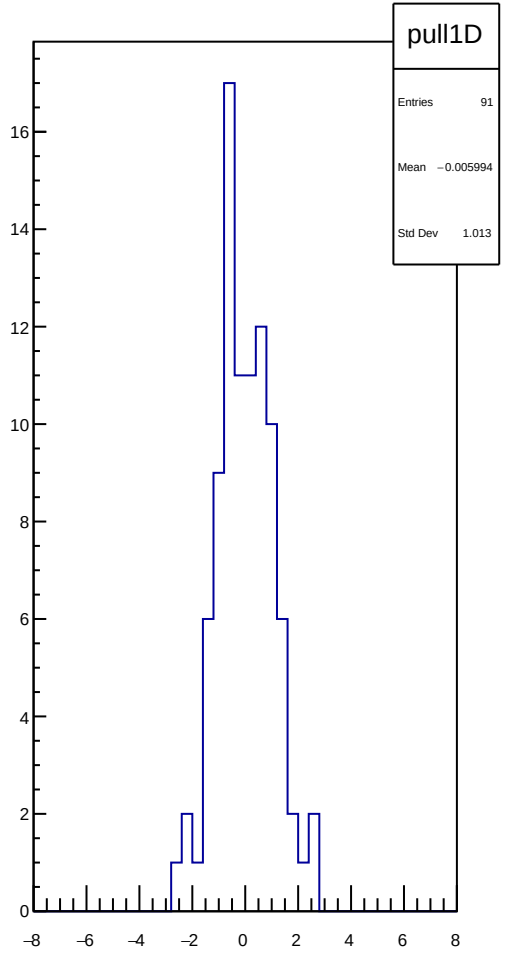

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 104.2 / 90
p0 4.487 ± 14.6
pull
Entries 91
Mean −195.2
Std Dev 0

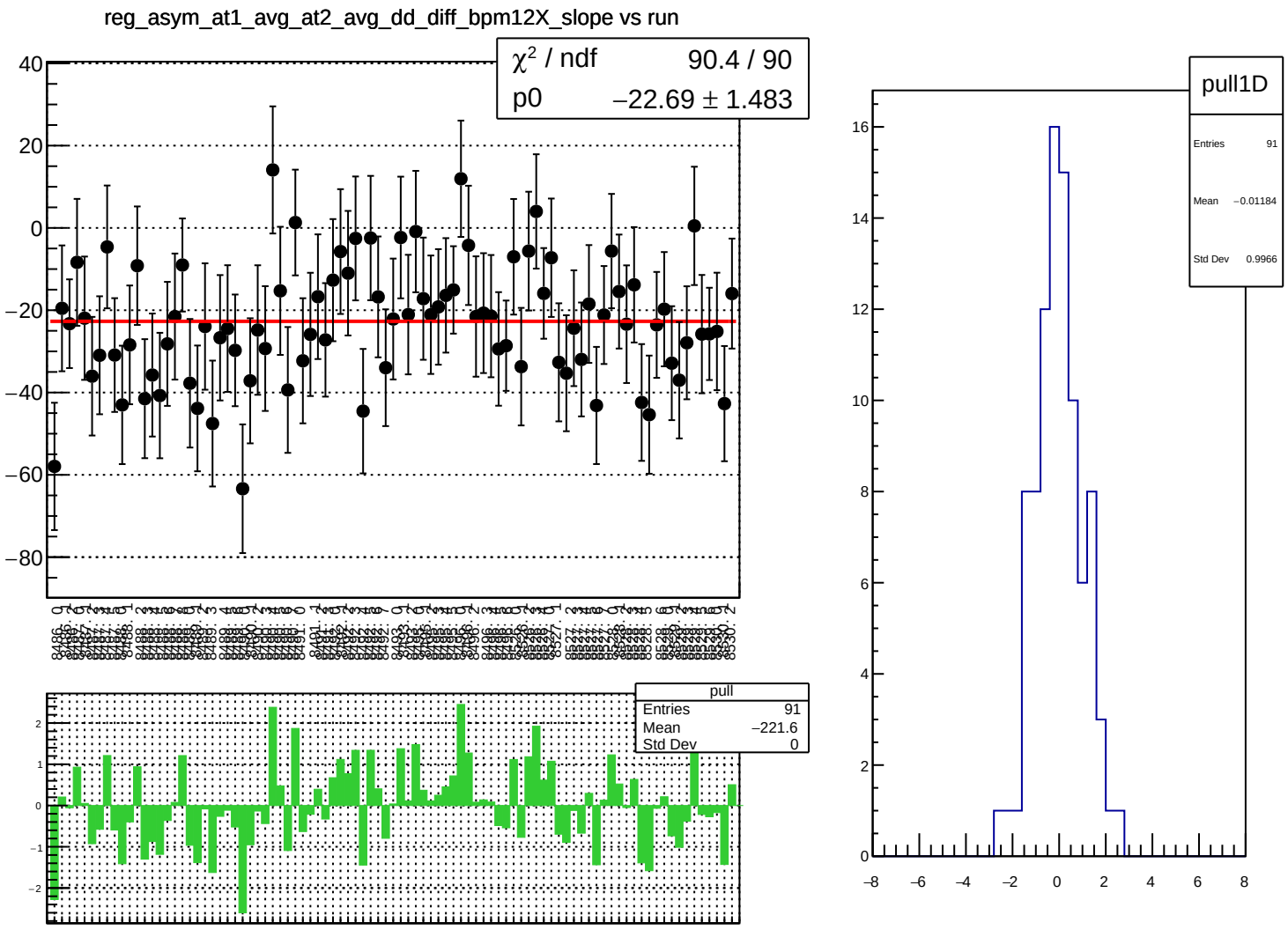

pull1D
Entries 91
Mean −0.007806
Std Dev 1.07

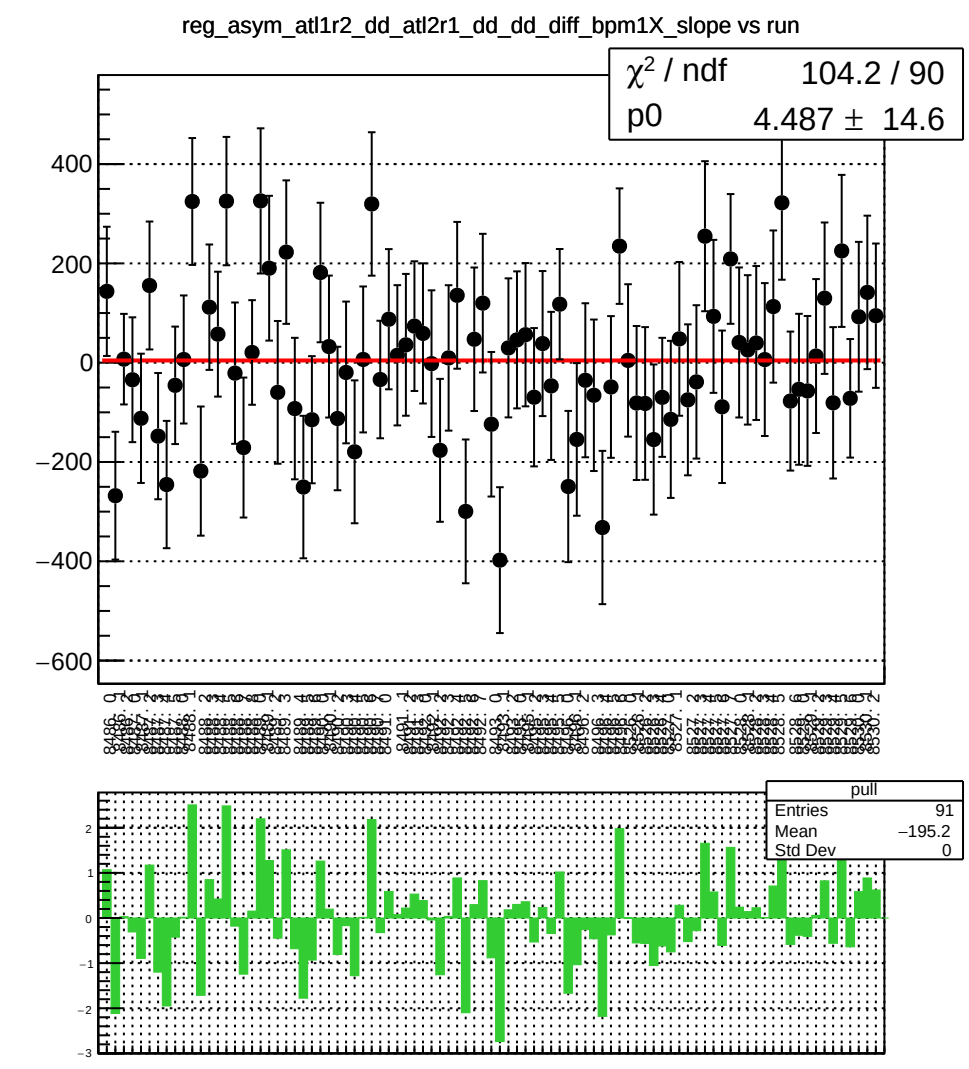

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 89.82 / 90
p0 −29.27 ± 23.42
pull
Entries 91
Mean −350.8
Std Dev 0
pull1D
Entries 91
Mean 0.005093
Std Dev 0.9935

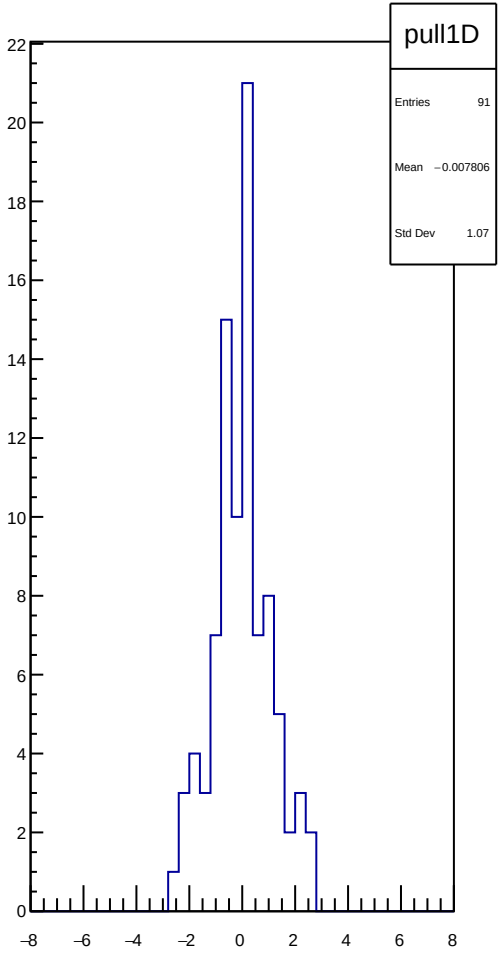

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 102.9 / 90
p0 −16.35 ± 15.88
600
400
200
0
−200
−400
−600
pull
Entries 91
Mean −76.09
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.009099
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

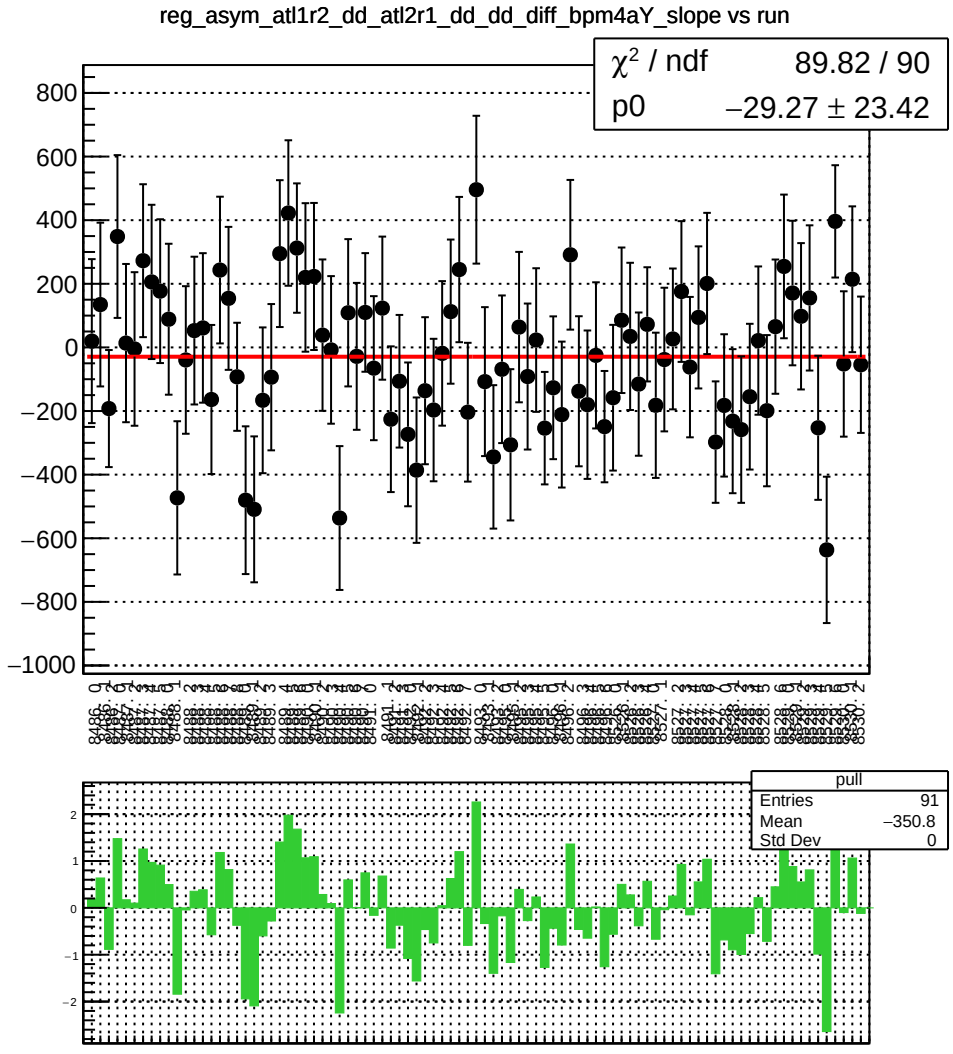

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 93.4 / 90
p0 34.65 ± 24.81
pull
Entries 91
Mean −339.1
Std Dev 0

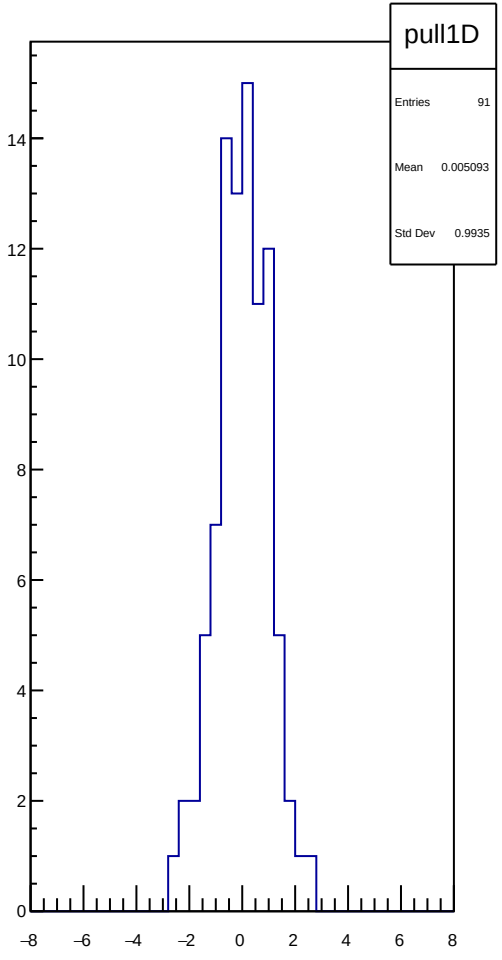

pull1D
Entries 91
Mean −0.005994
Std Dev 1.013

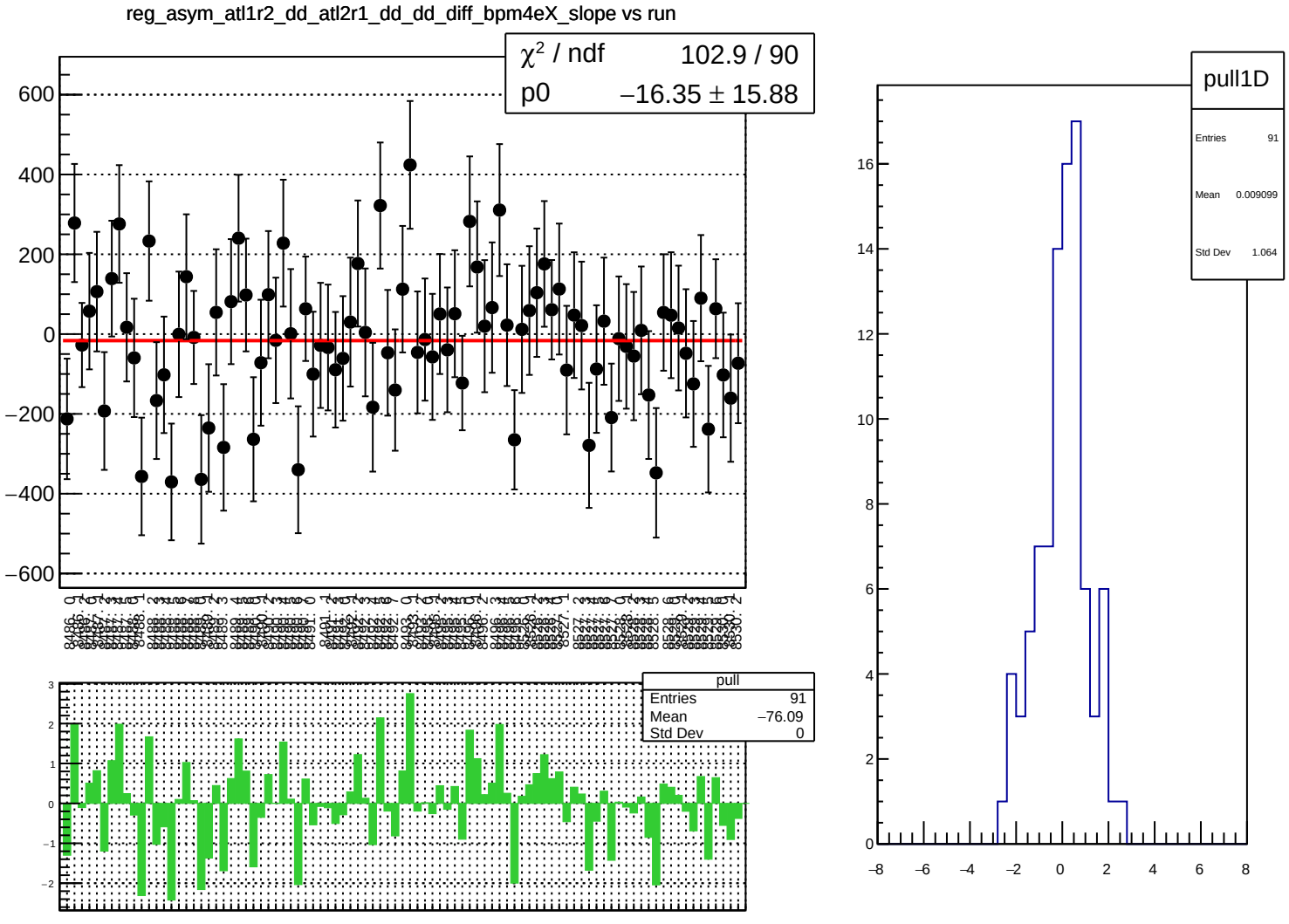

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 90.4 / 90
p0 −22.69 ± 1.483
pull
Entries 91
Mean −221.6
Std Dev 0
pull1D
Entries 91
Mean −0.01184
Std Dev 0.9966

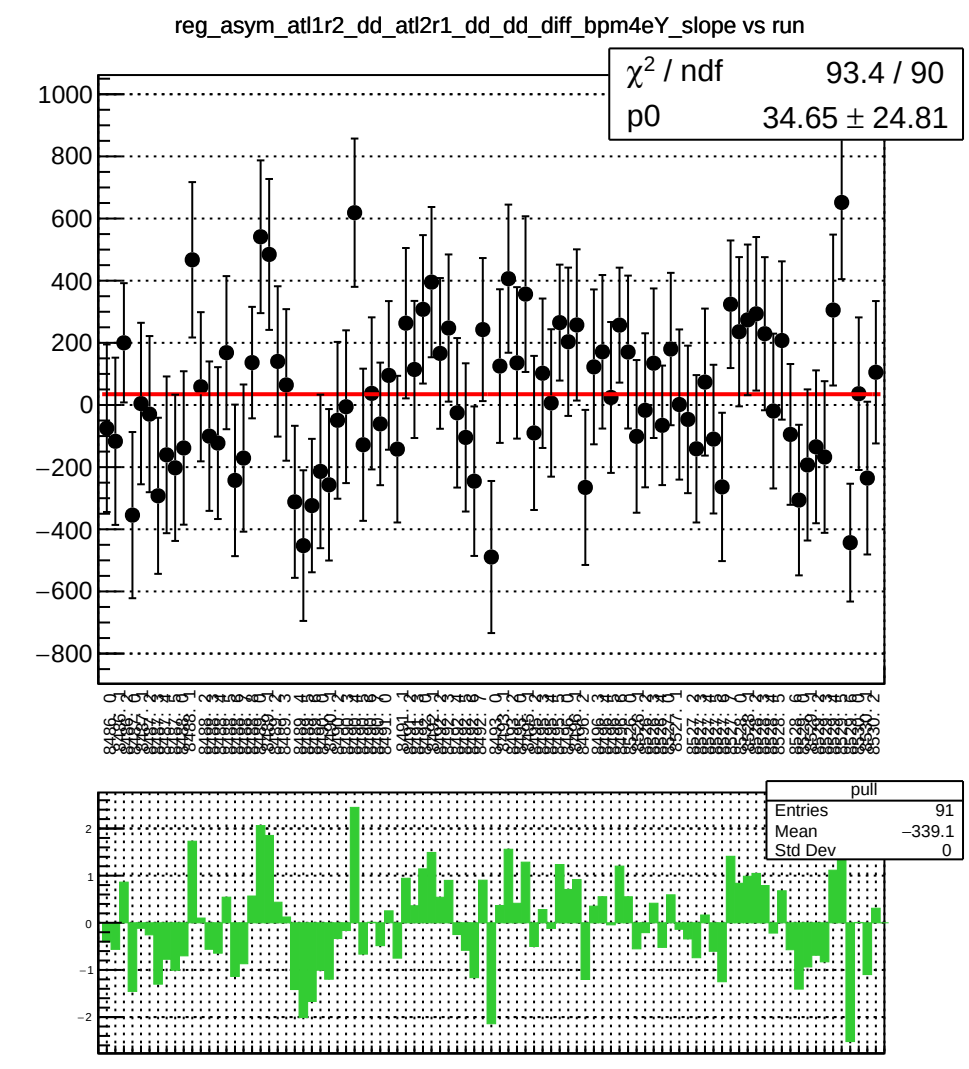

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 104.2 / 90
p0 4.487 ± 14.6
pull
Entries 91
Mean −195.2
Std Dev 0

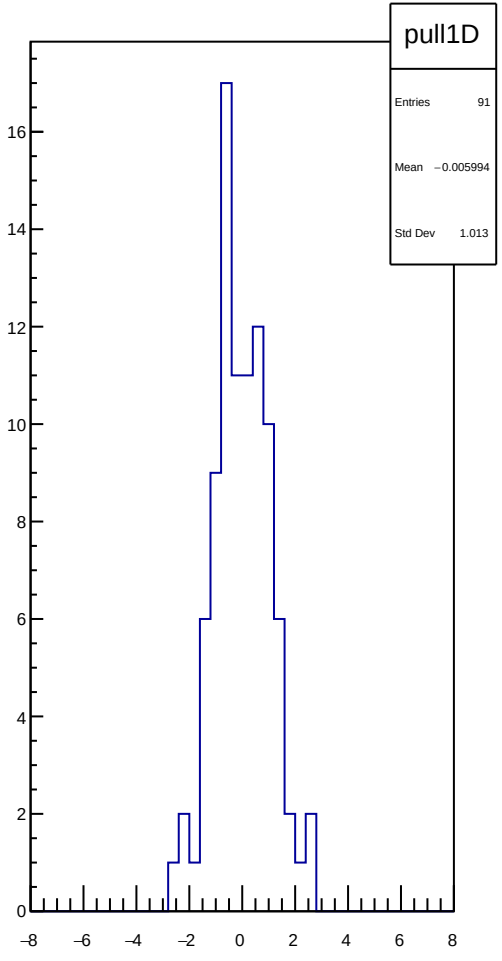

pull1D
Entries 91
Mean −0.007806
Std Dev 1.07

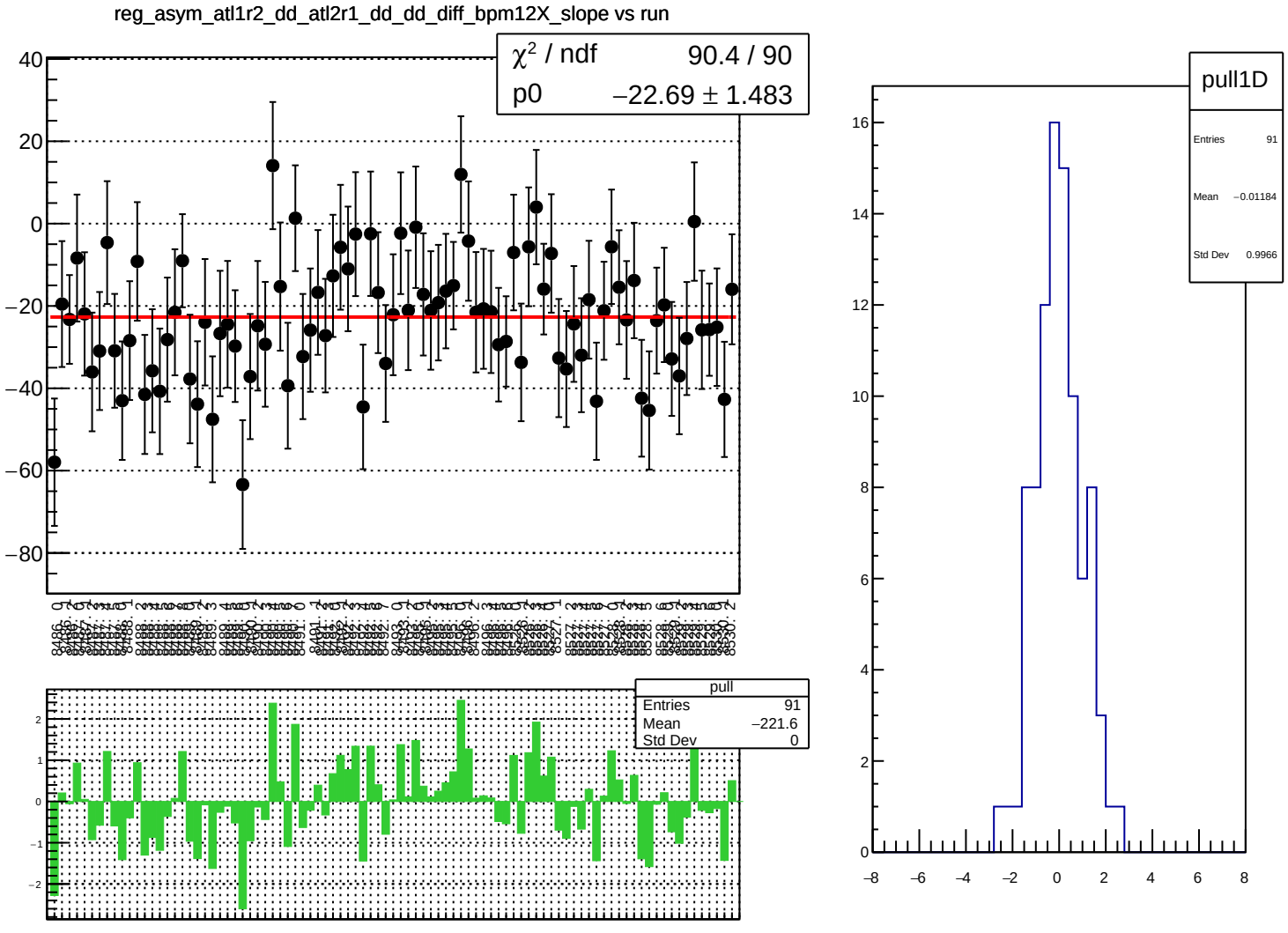

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 89.82 / 90
p0 −29.27 ± 23.42
pull
Entries 91
Mean −350.8
Std Dev 0

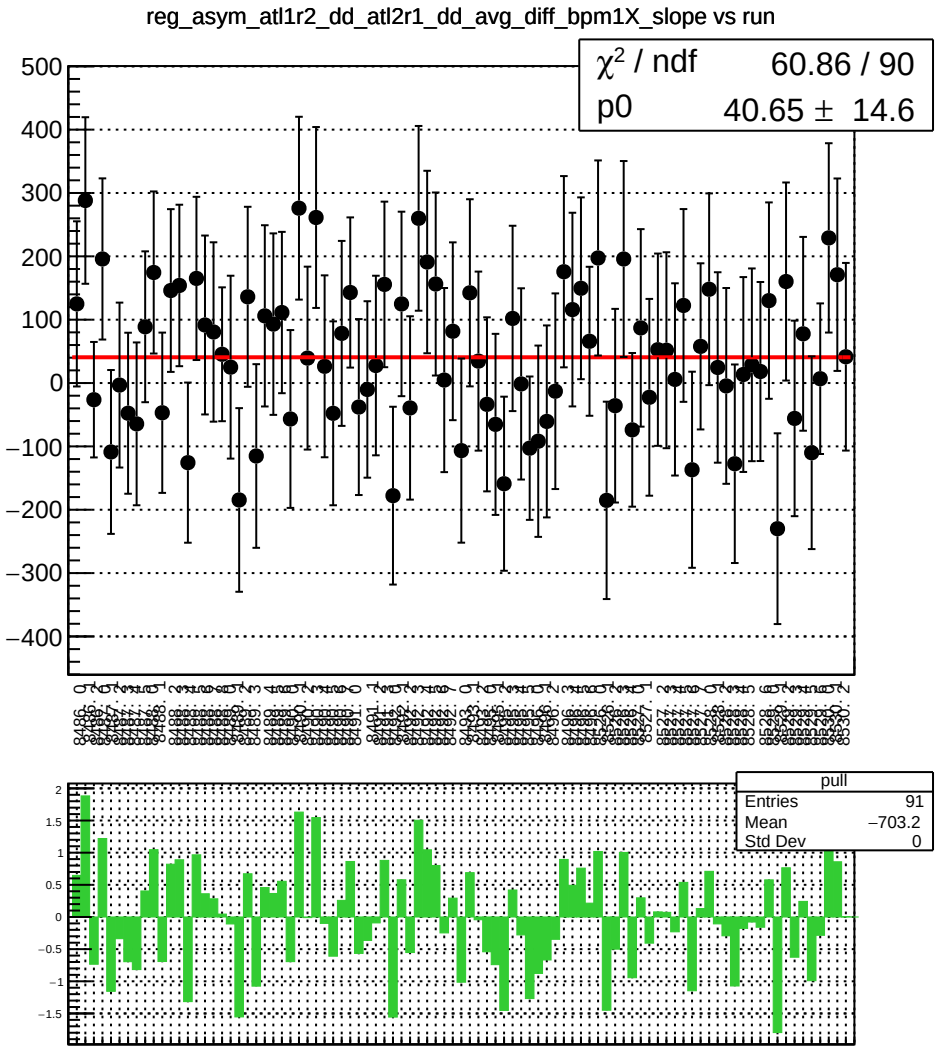

pull1D
Entries 91
Mean 0.005093
Std Dev 0.9935

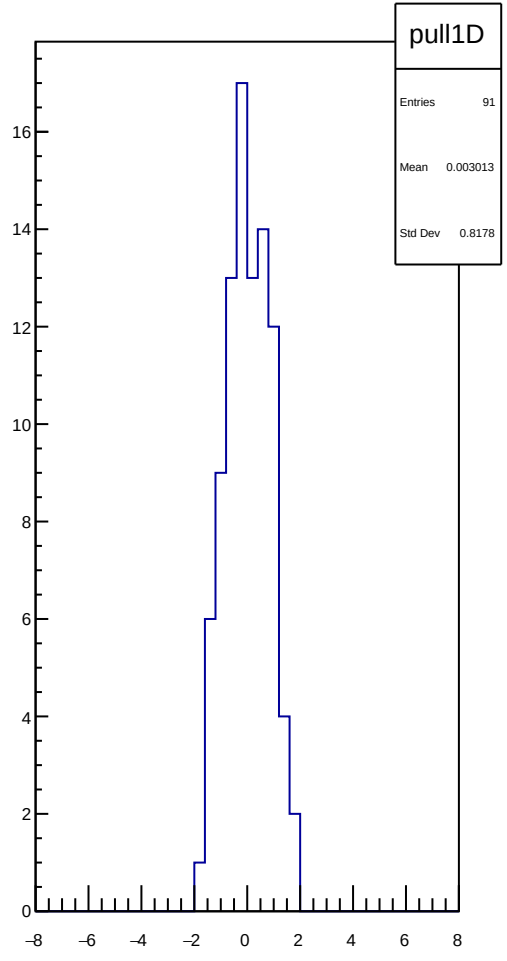

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 102.9 / 90
p0 −16.35 ± 15.88
pull
Entries 91
Mean −76.09
Std Dev 0
pull1D
Entries 91
Mean 0.009099
Std Dev 1.064

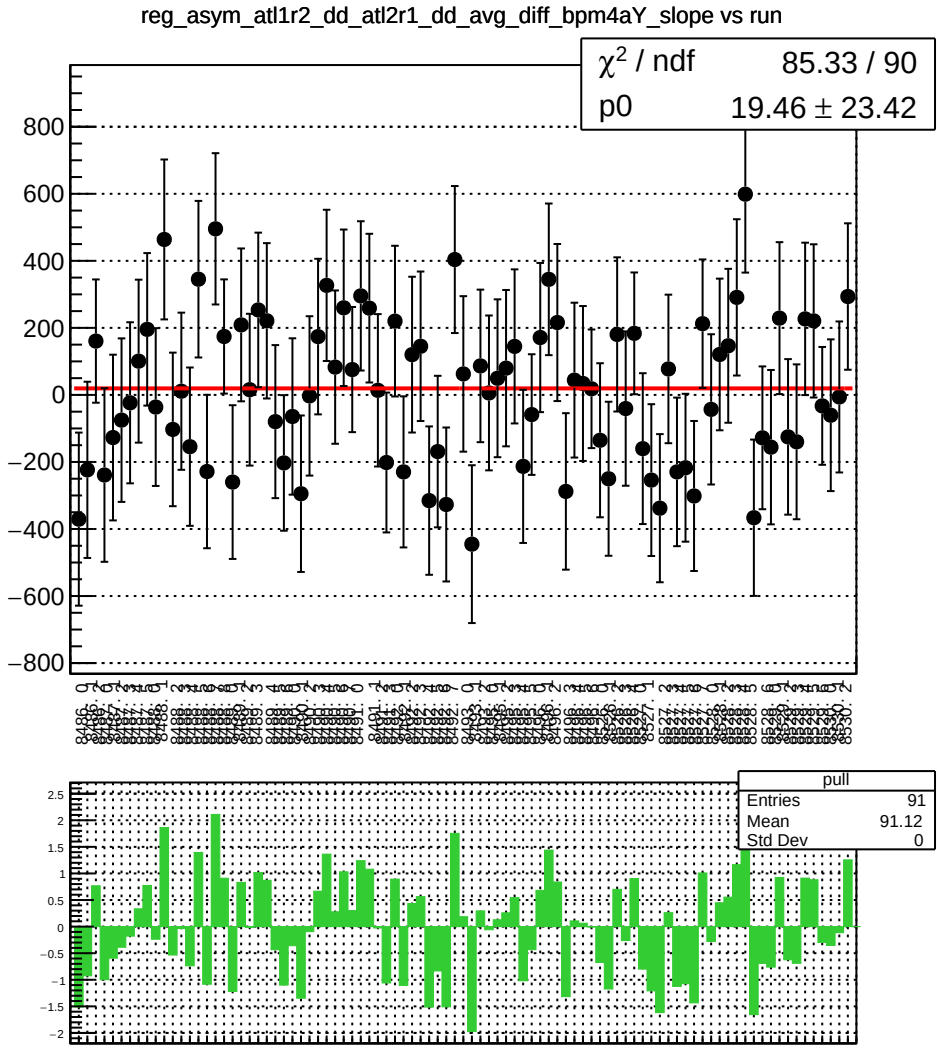

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 93.4 / 90
p0 34.65 ± 24.81
pull
Entries 91
Mean −339.1
Std Dev 0

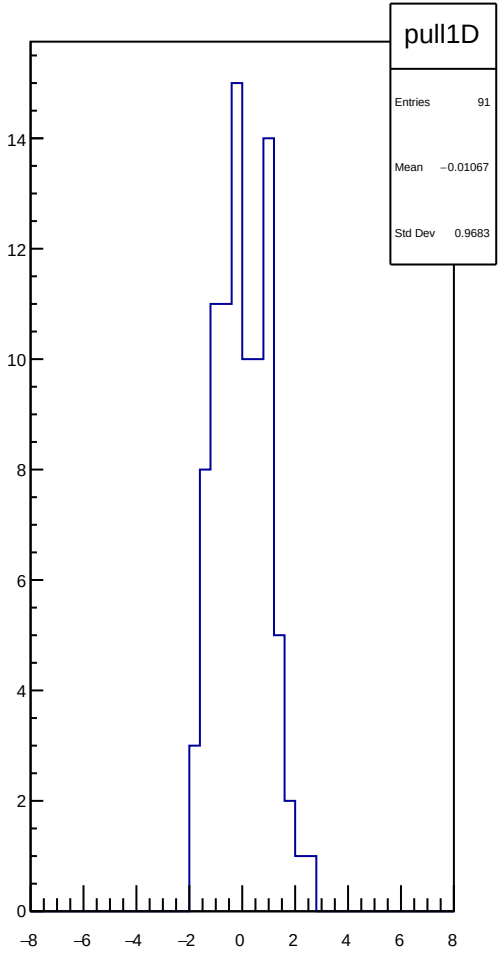

pull1D
Entries 91
Mean −0.005994
Std Dev 1.013

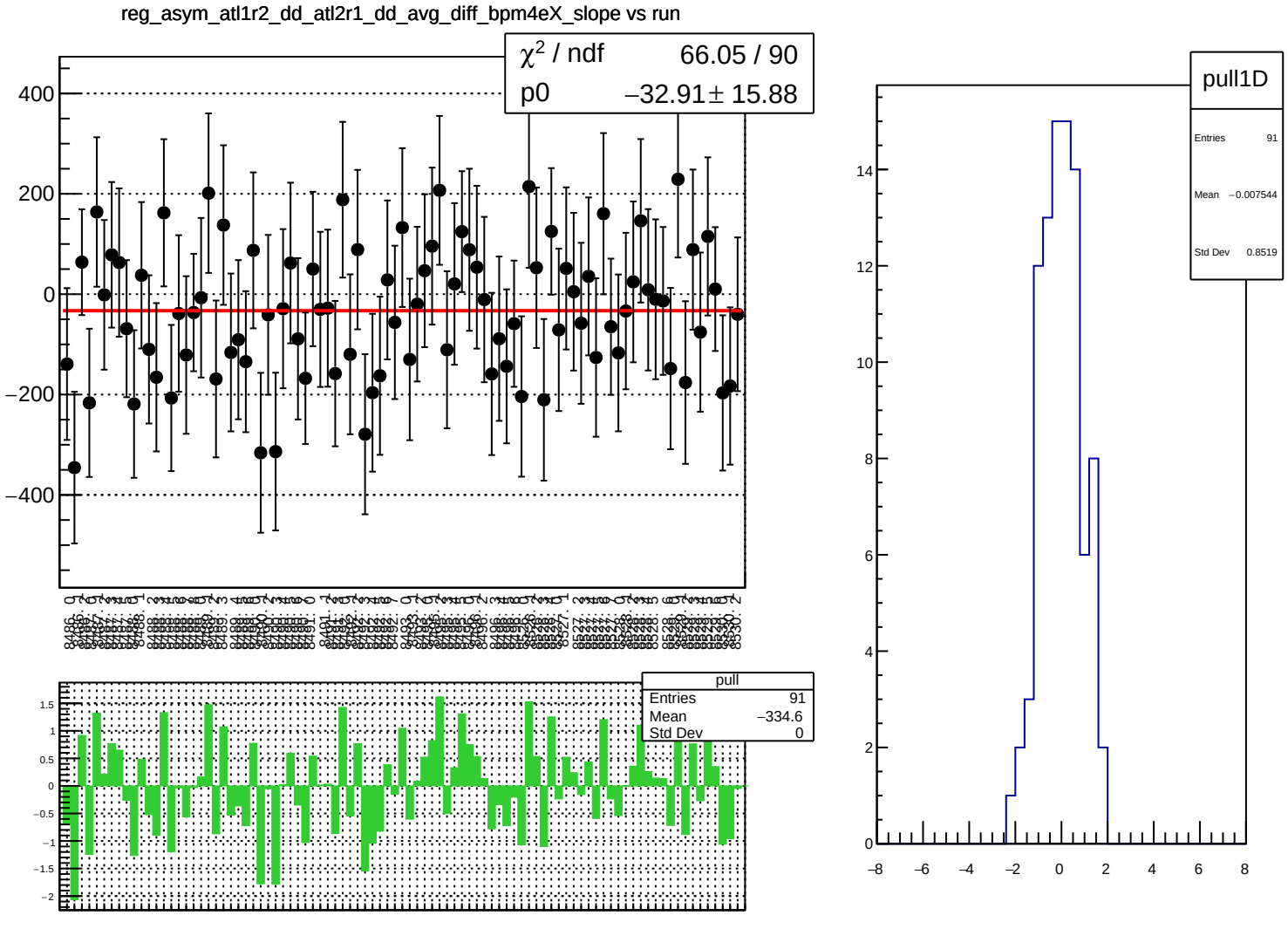

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 90.4 / 90
p0 −22.69 ± 1.483
pull
Entries 91
Mean −221.6
Std Dev 0
pull1D
Entries 91
Mean −0.01184
Std Dev 0.9966

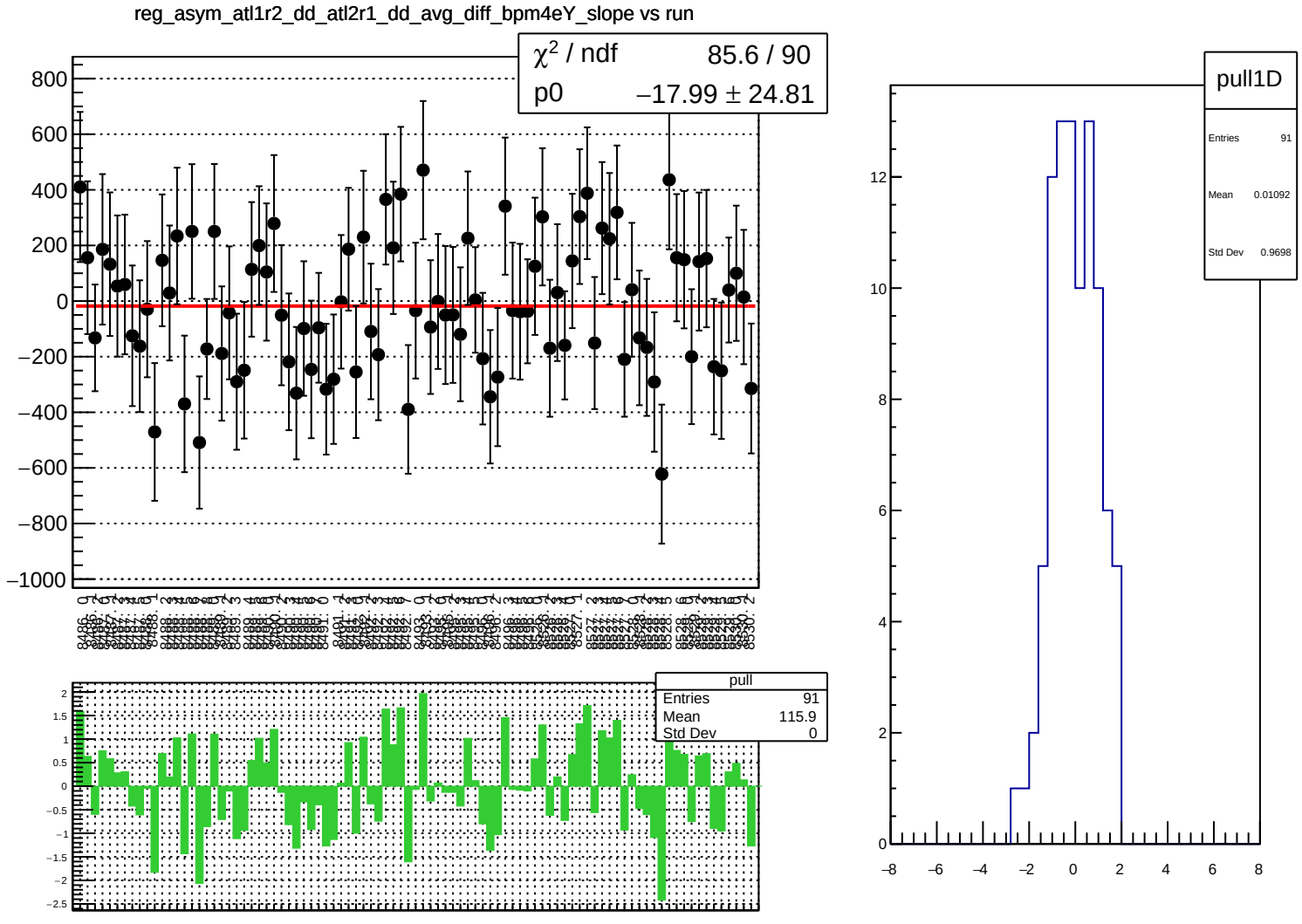

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 60.86 / 90
p0 40.65 ± 14.6
pull
Entries 91
Mean −703.2
Std Dev 0

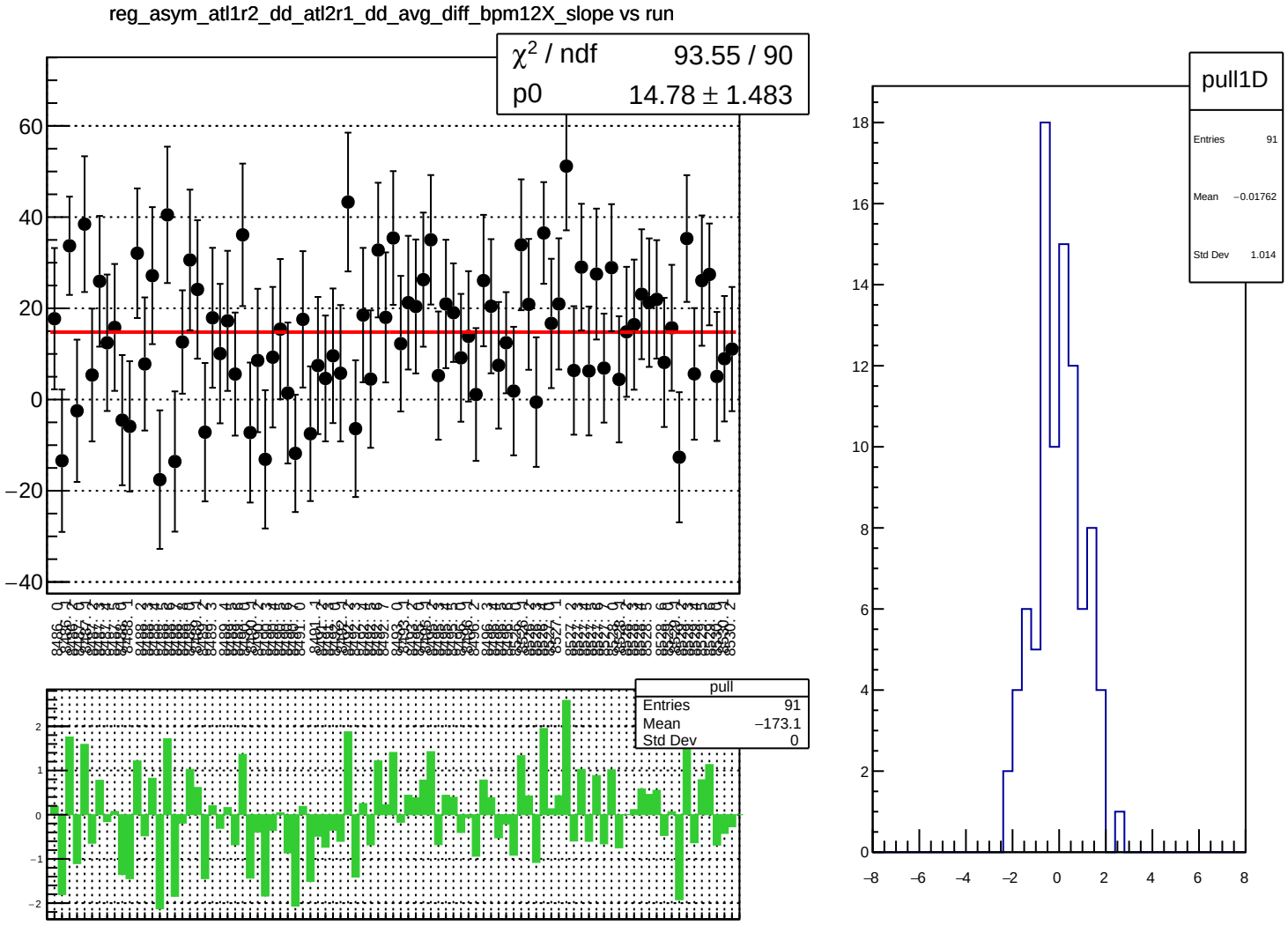

pull1D
Entries 91
Mean 0.003013
Std Dev 0.8178

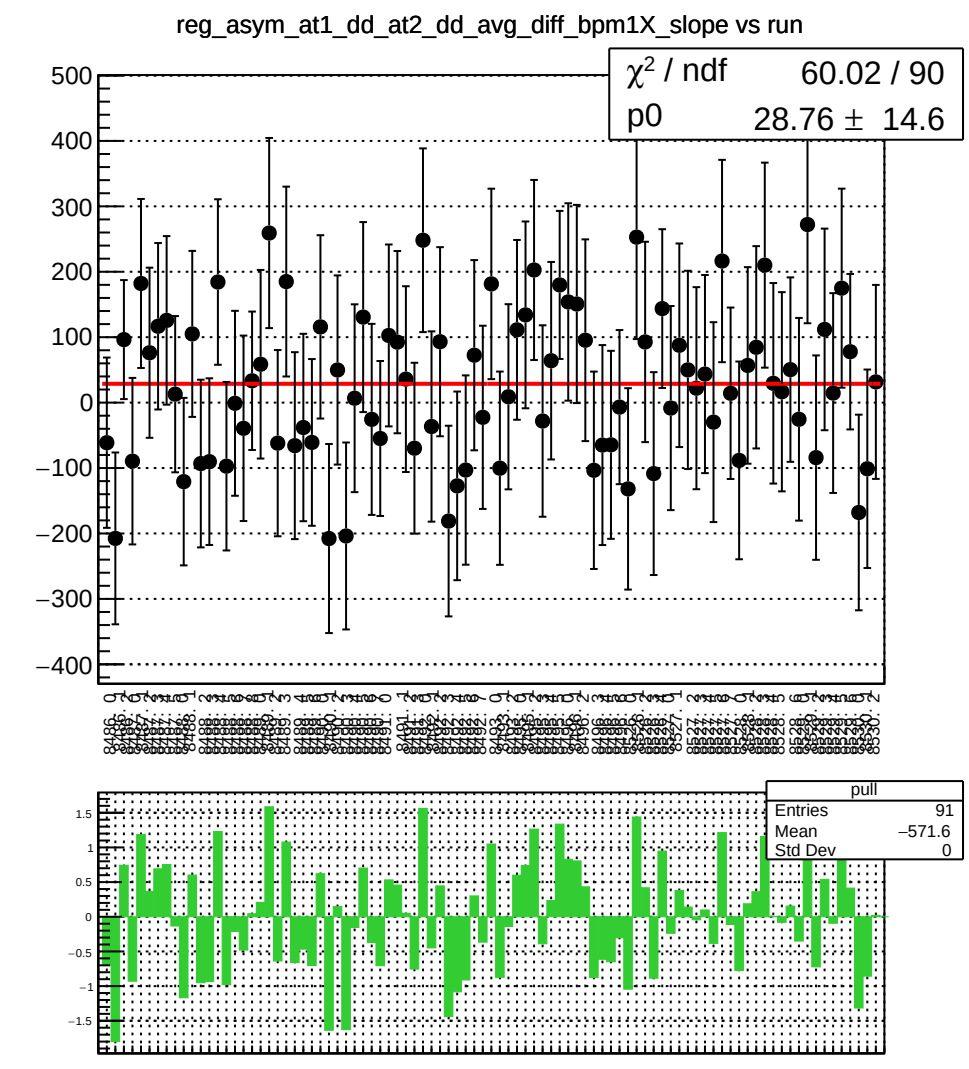

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 85.33 / 90
p0 19.46 ± 23.42
pull
Entries 91
Mean 91.12
Std Dev 0

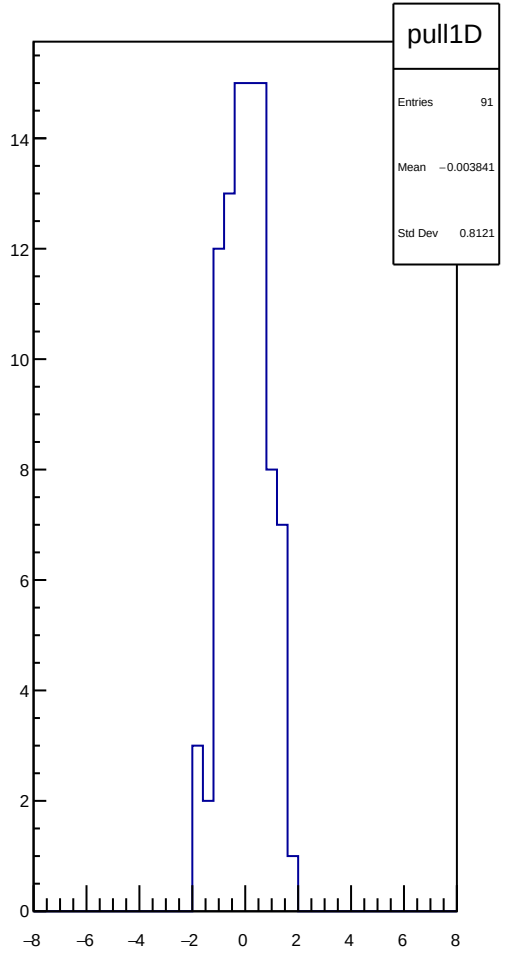

pull1D
Entries 91
Mean −0.01067
Std Dev 0.9683

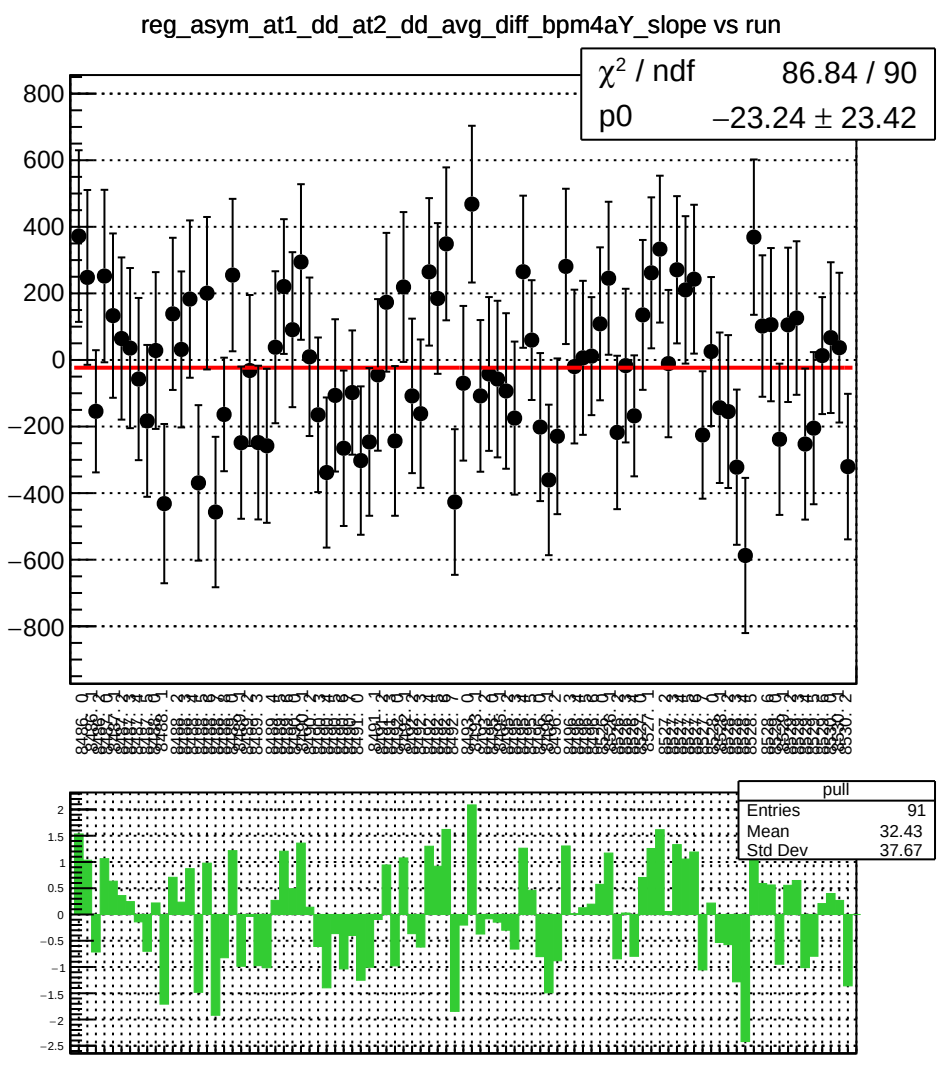

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 66.05 / 90
p0 −32.91 ± 15.88
400
200
0
−200
−400
pull
Entries 91
Mean −334.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 91
Mean −0.007544
Std Dev 0.8519
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

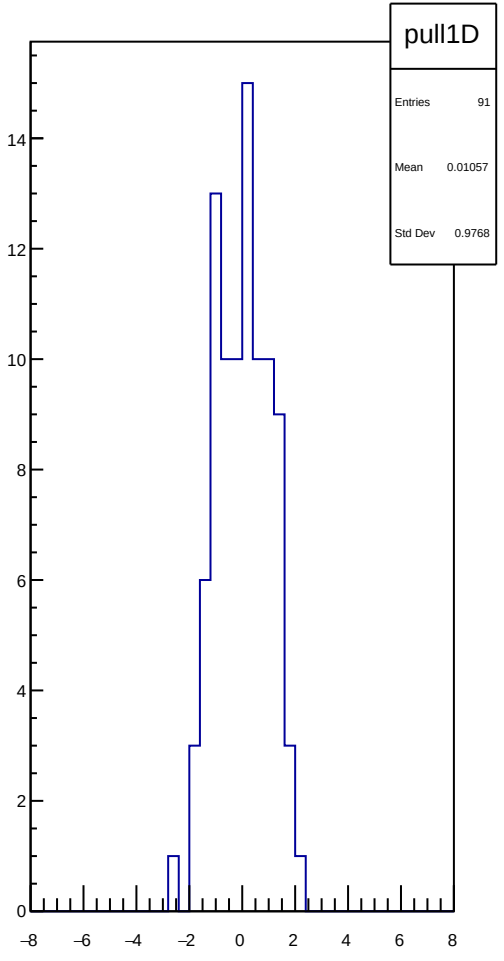

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 85.6 / 90
p0 −17.99 ± 24.81
pull
Entries 91
Mean 115.9
Std Dev 0
pull1D
Entries 91
Mean 0.01092
Std Dev 0.9698

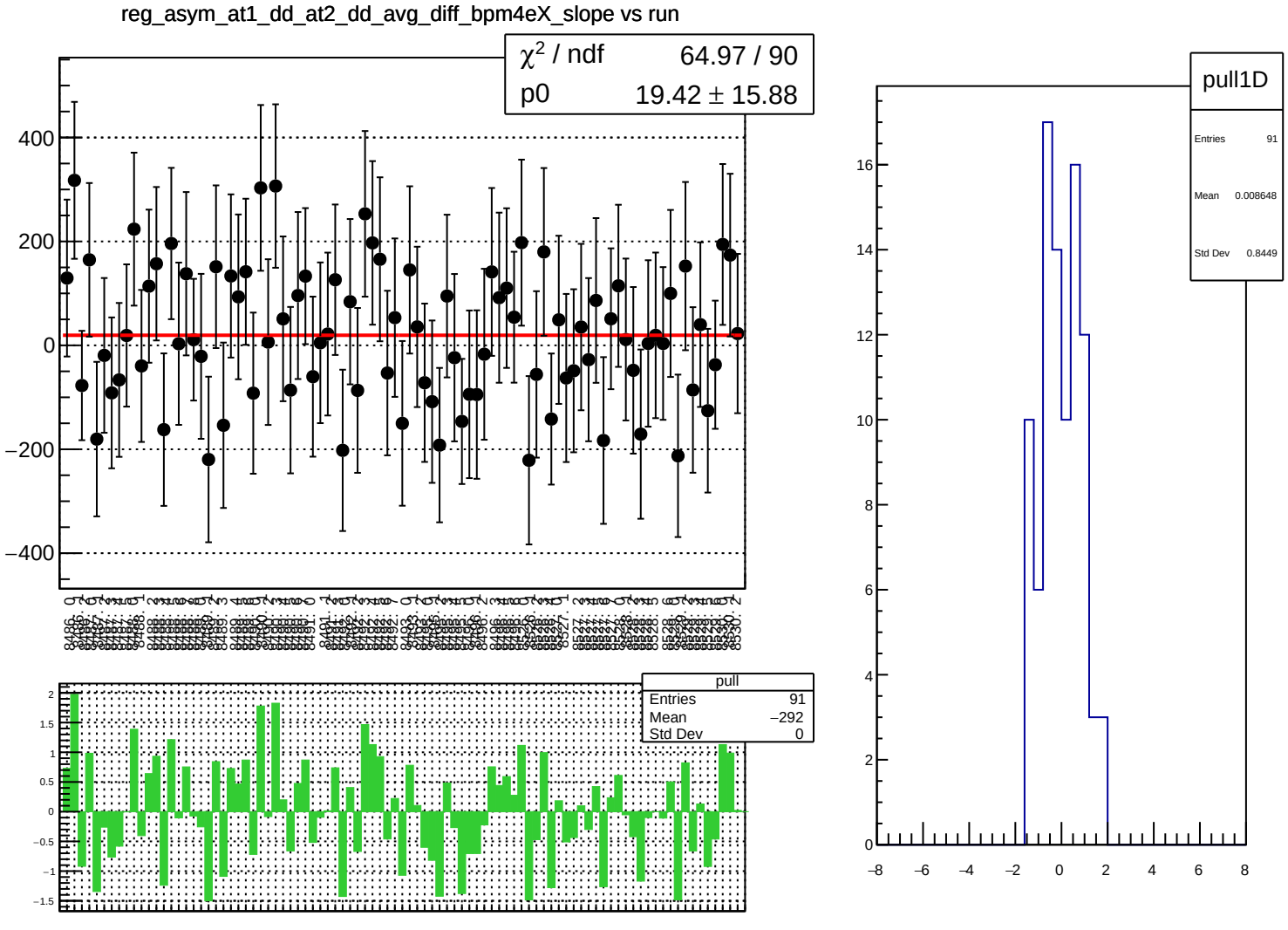

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 93.55 / 90
p0 14.78 ± 1.483
pull
Entries 91
Mean −173.1
Std Dev 0
pull1D
Entries 91
Mean −0.01762
Std Dev 1.014

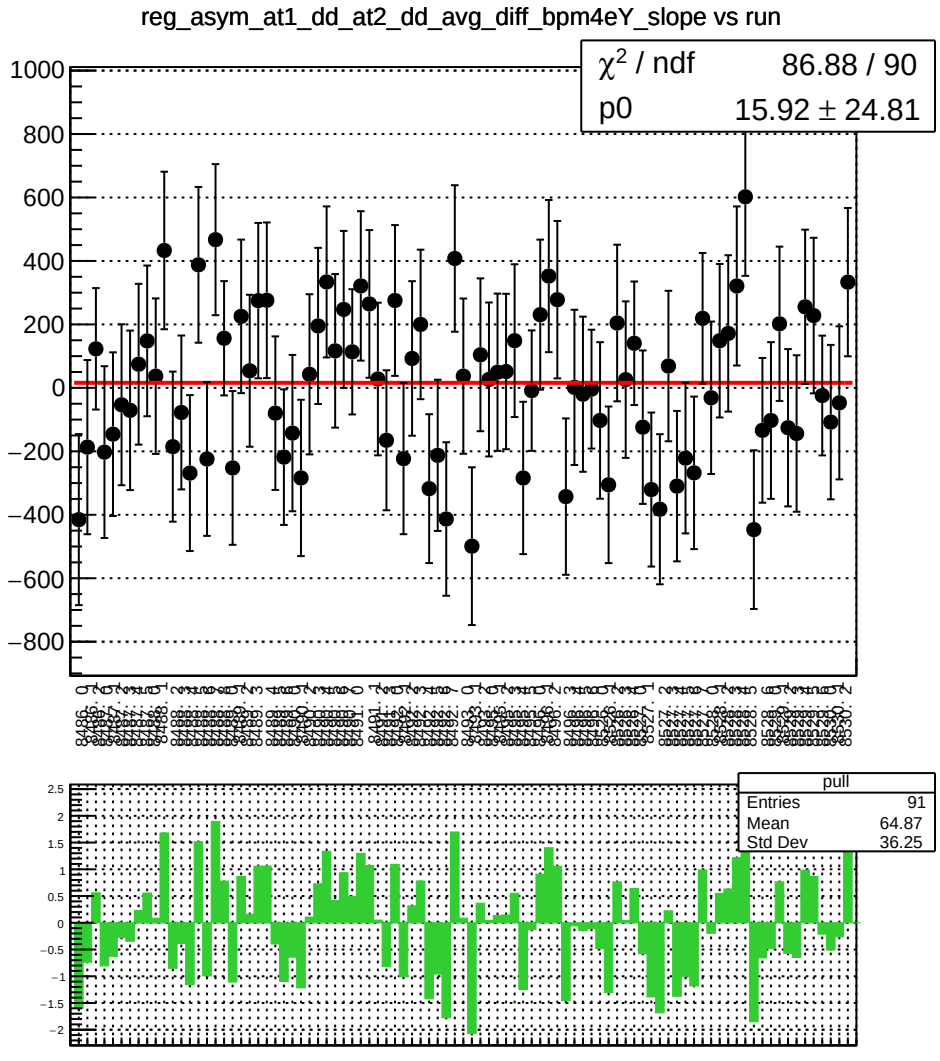

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 60.02 / 90
p0 28.76 ± 14.6
pull
Entries 91
Mean −571.6
Std Dev 0

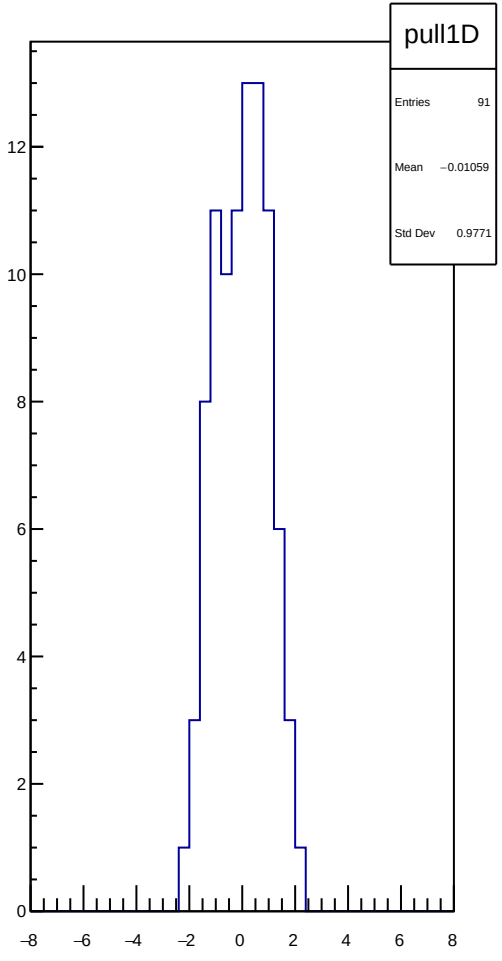

pull1D
Entries 91
Mean −0.003841
Std Dev 0.8121

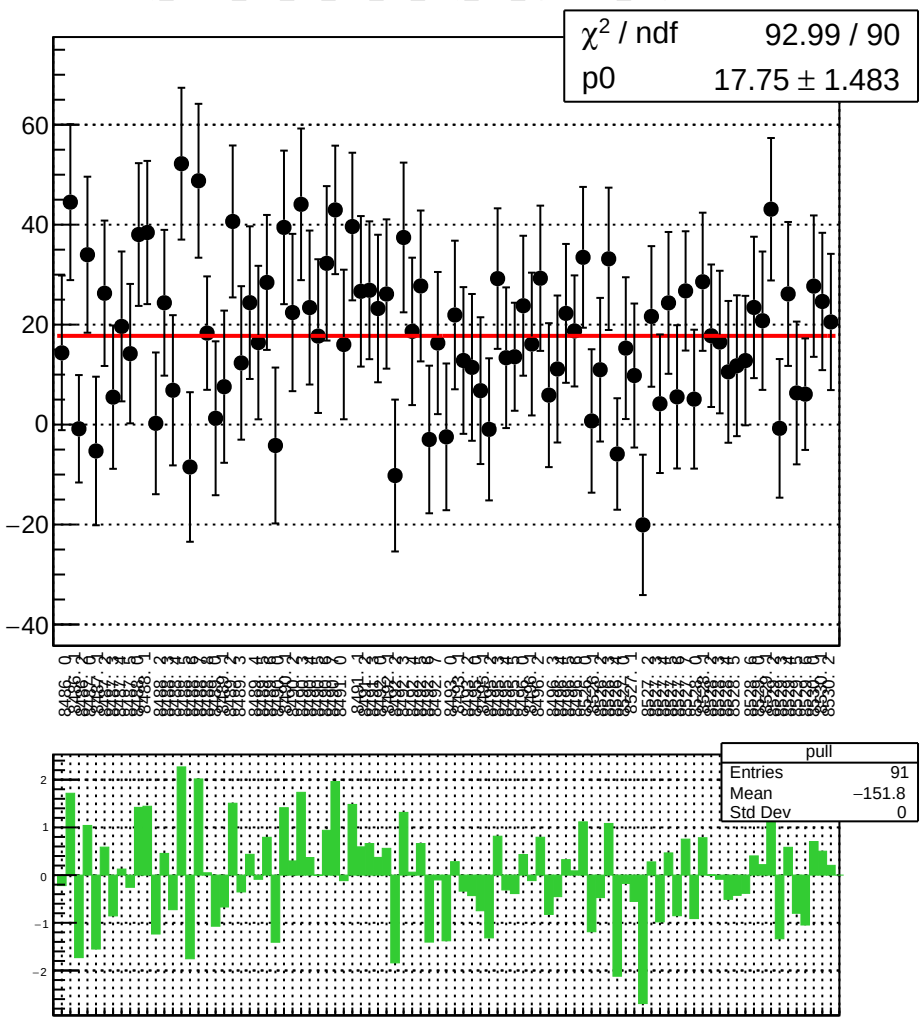

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 86.84 / 90
p0 −23.24 ± 23.42
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 91
Mean 32.43
Std Dev 37.67
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

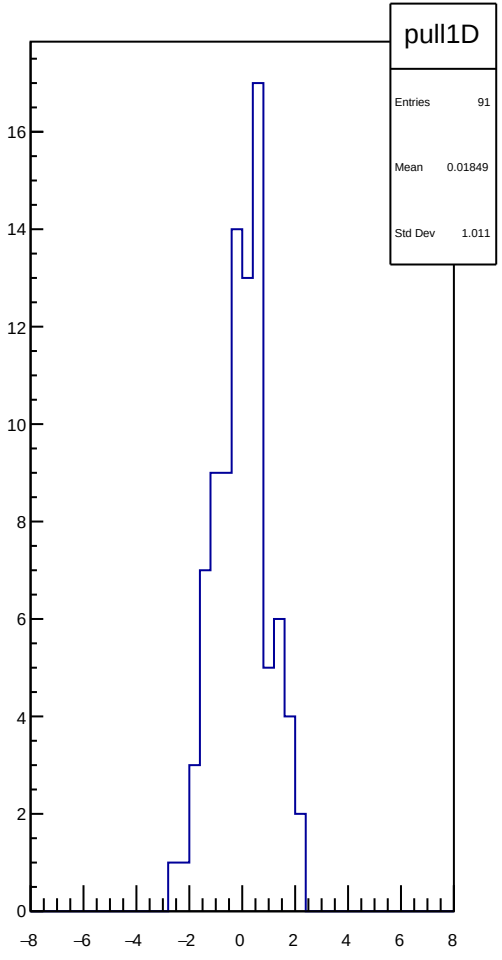

pull1D
Entries 91
Mean 0.01057
Std Dev 0.9768
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

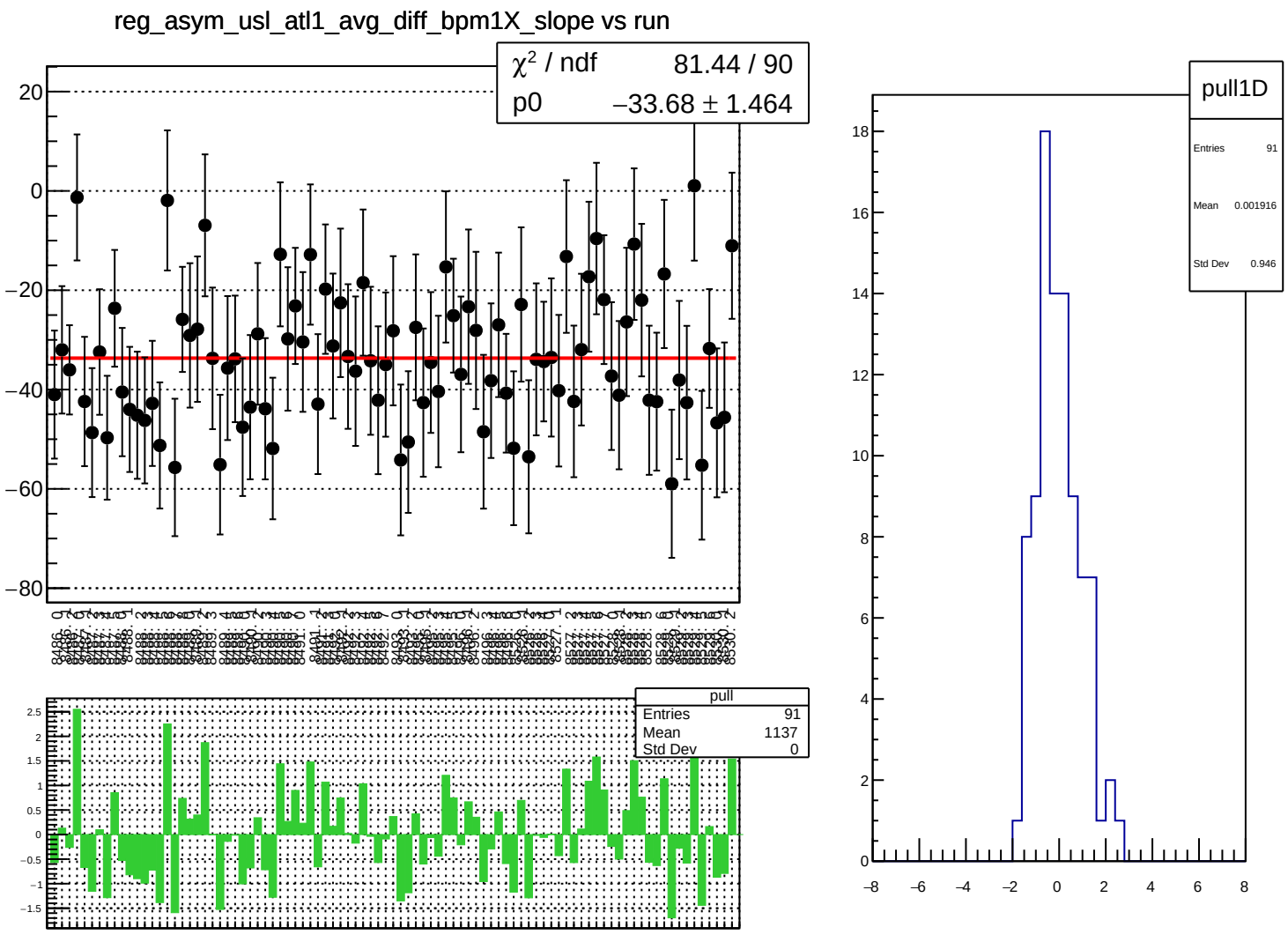

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 64.97 / 90
p0 19.42 ± 15.88
400
200
0
−200
−400
pull
Entries 91
Mean −292
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 91
Mean 0.008648
Std Dev 0.8449
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

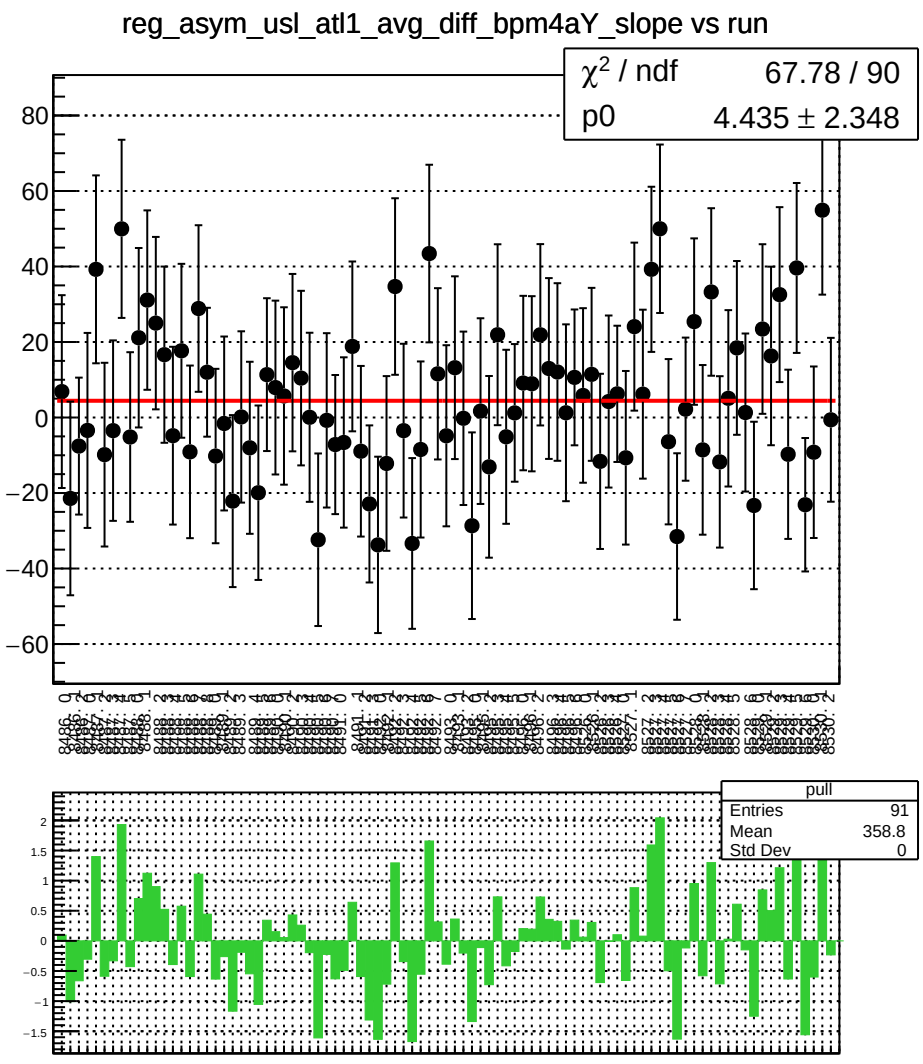

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 86.88 / 90
p0 15.92 ± 24.81
pull
Entries 91
Mean 64.87
Std Dev 36.25

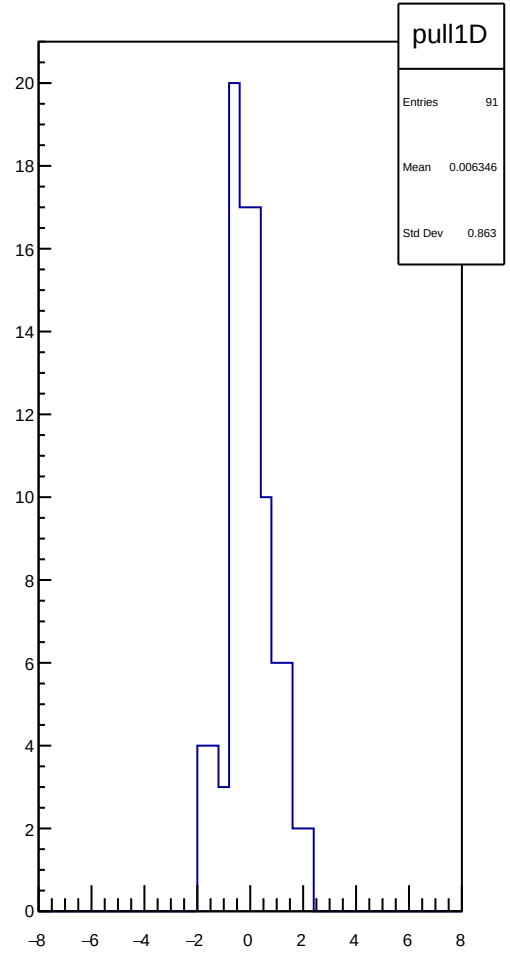

pull1D
Entries 91
Mean −0.01059
Std Dev 0.9771

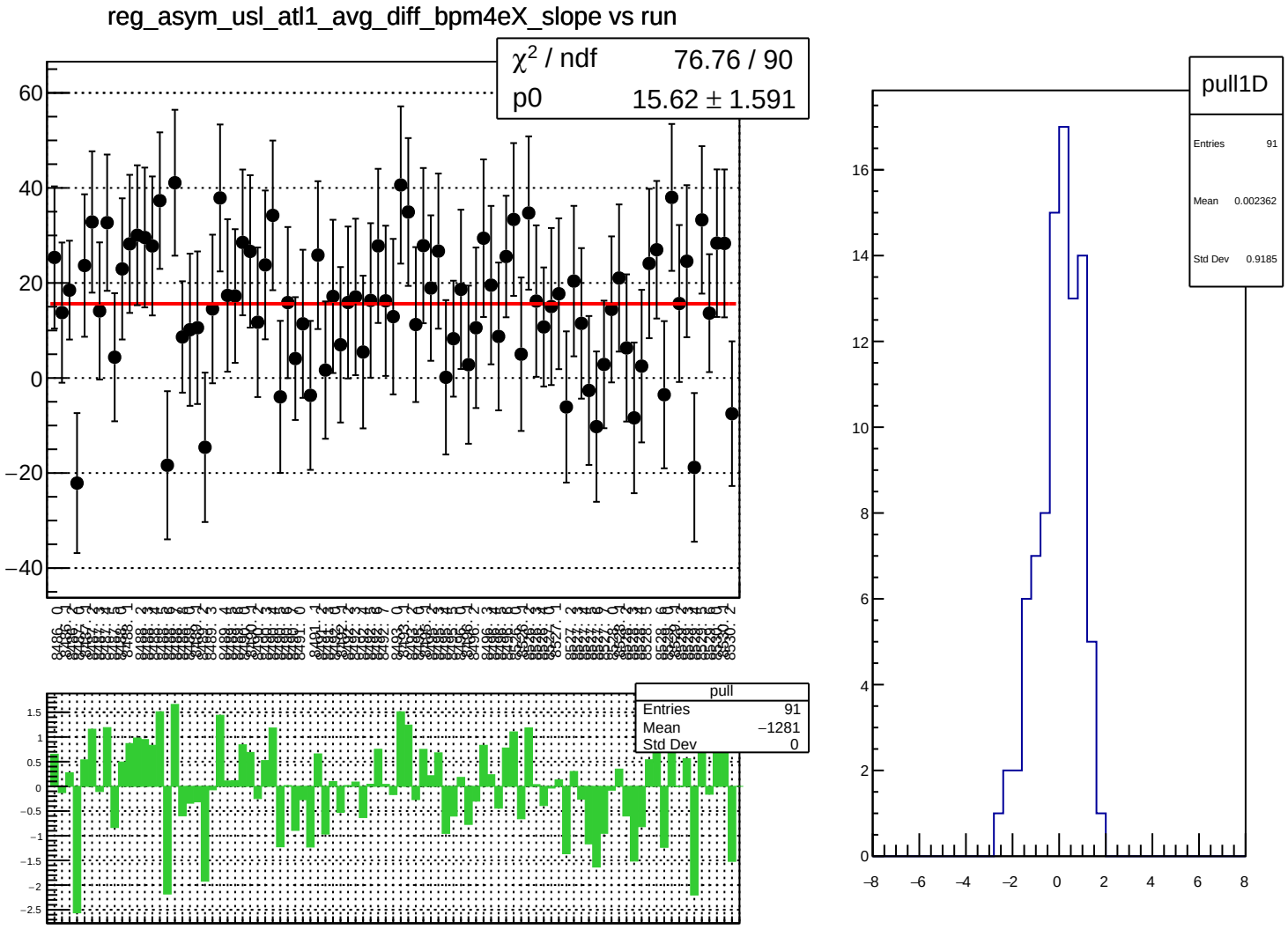

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 92.99 / 90
p0 17.75 ± 1.483
pull
Entries 91
Mean −151.8
Std Dev 0

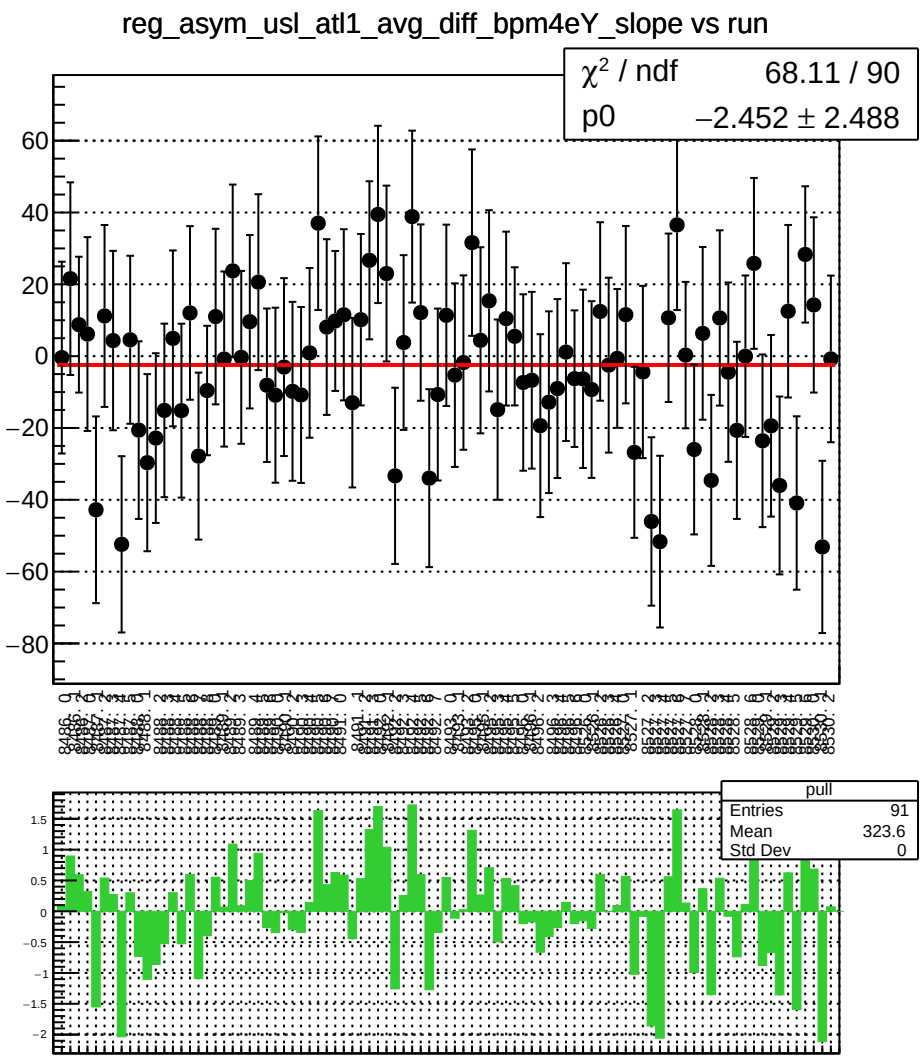

pull1D
Entries 91
Mean 0.01849
Std Dev 1.011

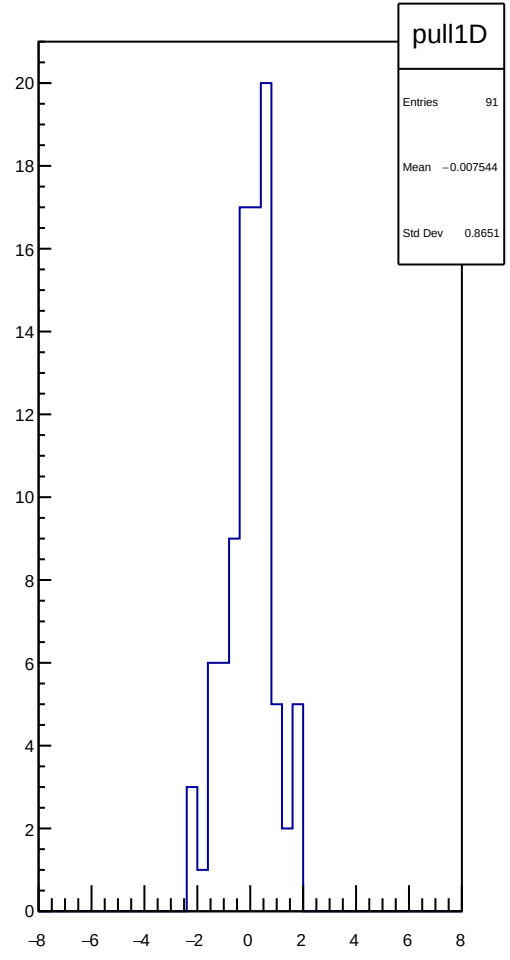

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 81.44 / 90
p0 −33.68 ± 1.464
pull
Entries 91
Mean 1137
Std Dev 0
pull1D
Entries 91
Mean 0.001916
Std Dev 0.946

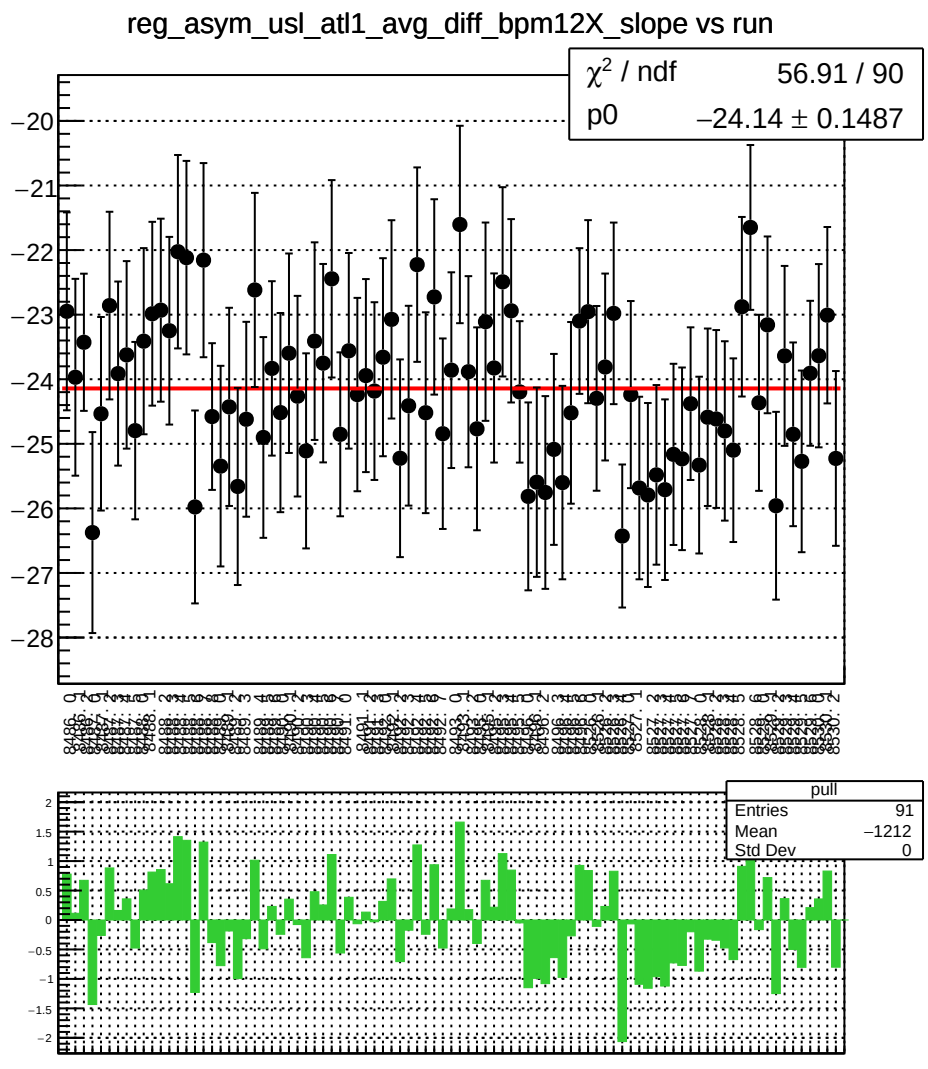

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 67.78 / 90
p0 4.435 ± 2.348
pull
Entries 91
Mean 358.8
Std Dev 0

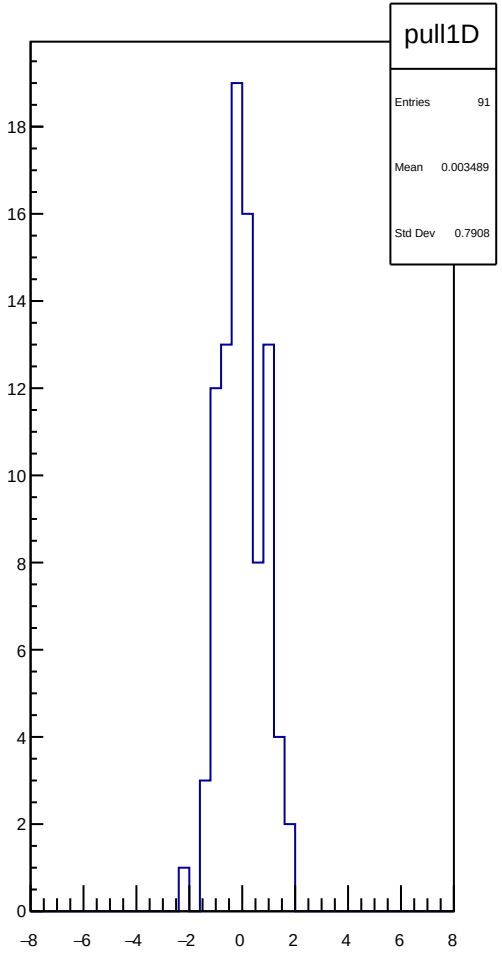

pull1D
Entries 91
Mean 0.006346
Std Dev 0.863

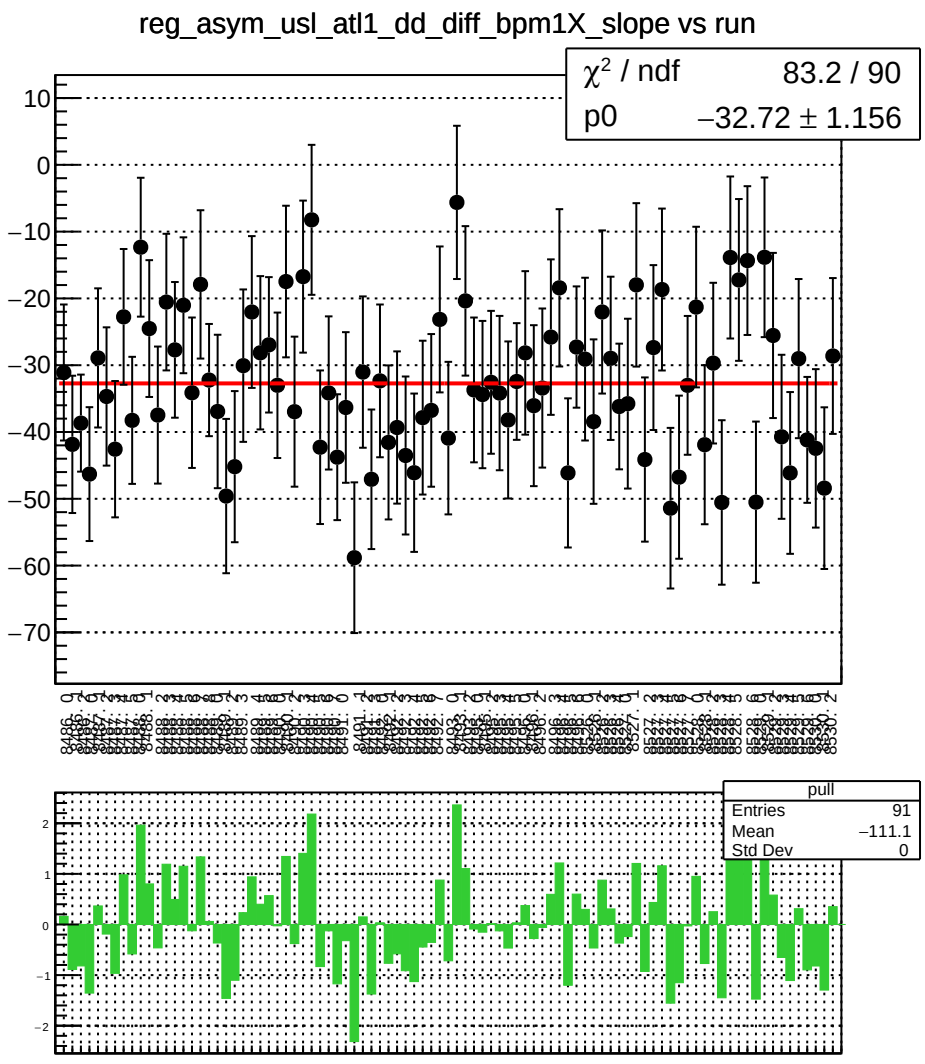

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 76.76 / 90
p0 15.62 ± 1.591
pull
Entries 91
Mean −1281
Std Dev 0
pull1D
Entries 91
Mean 0.002362
Std Dev 0.9185

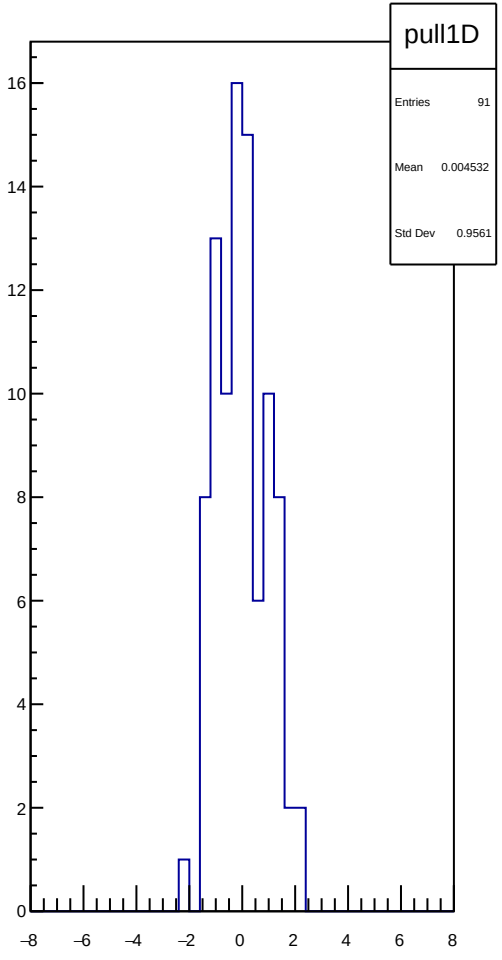

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 68.11 / 90
p0 −2.452 ± 2.488
pull
Entries 91
Mean 323.6
Std Dev 0

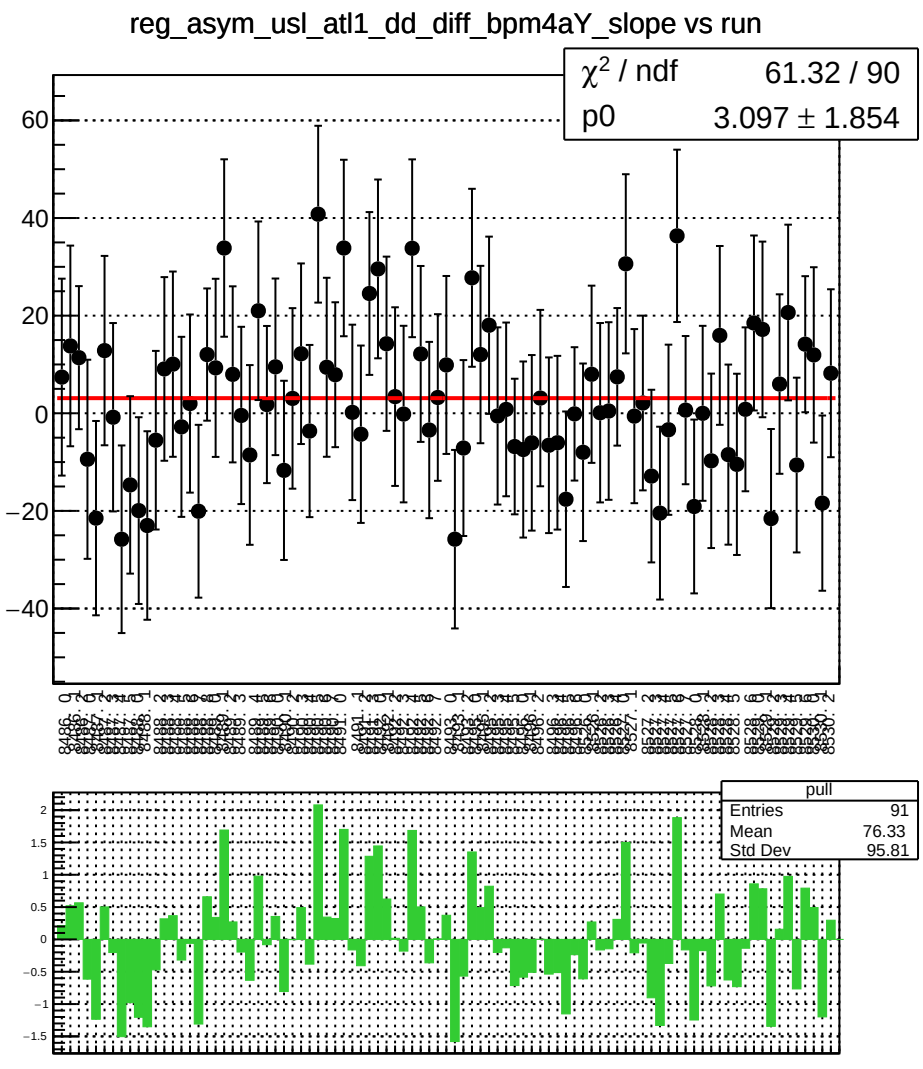

pull1D
Entries 91
Mean −0.007544
Std Dev 0.8651

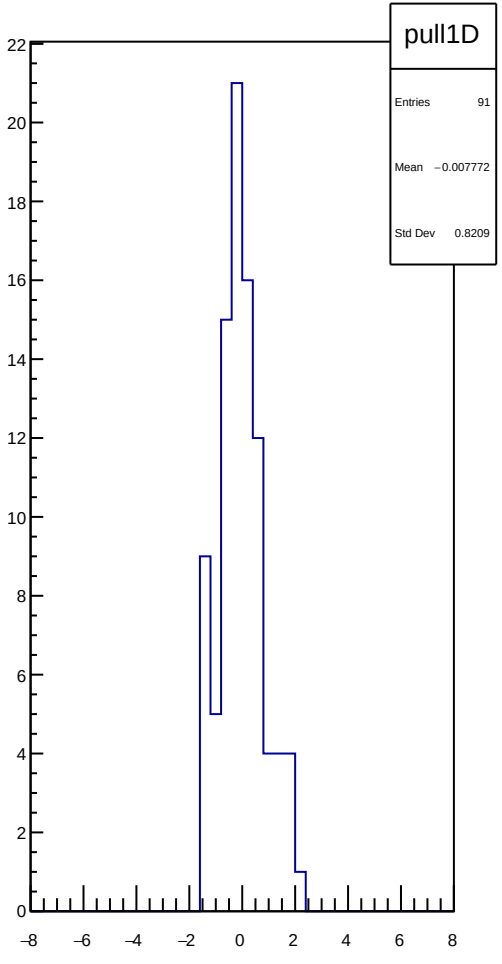

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 56.91 / 90
p0 −24.14 ± 0.1487
pull
Entries 91
Mean −1212
Std Dev 0

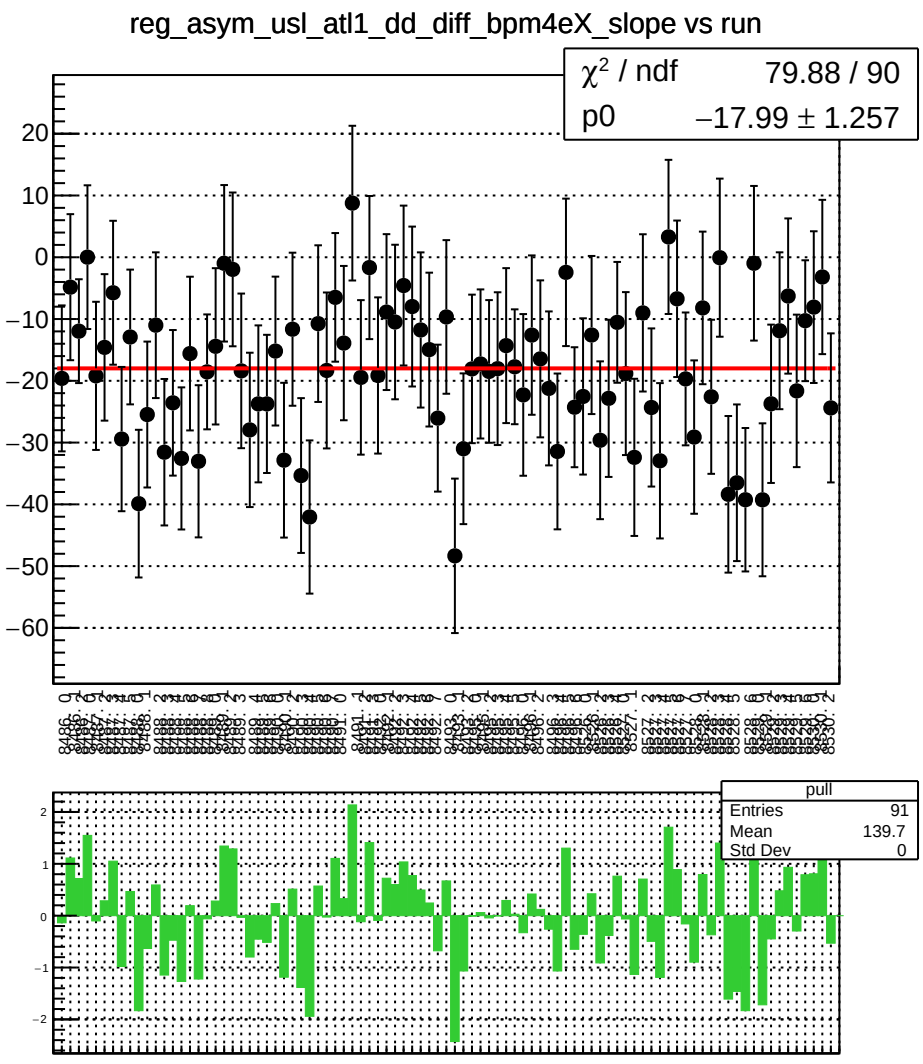

pull1D
Entries 91
Mean 0.003489
Std Dev 0.7908

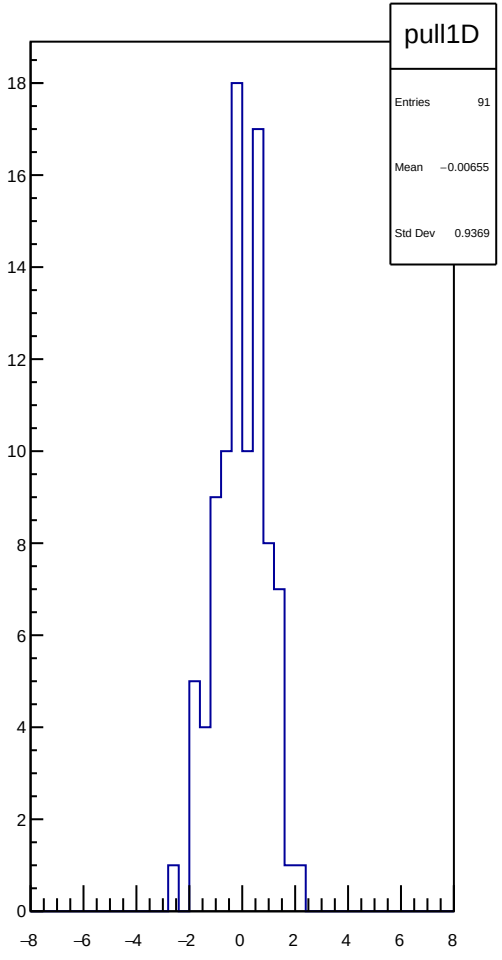

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 83.2 / 90
p0 −32.72 ± 1.156
pull
Entries 91
Mean −111.1
Std Dev 0

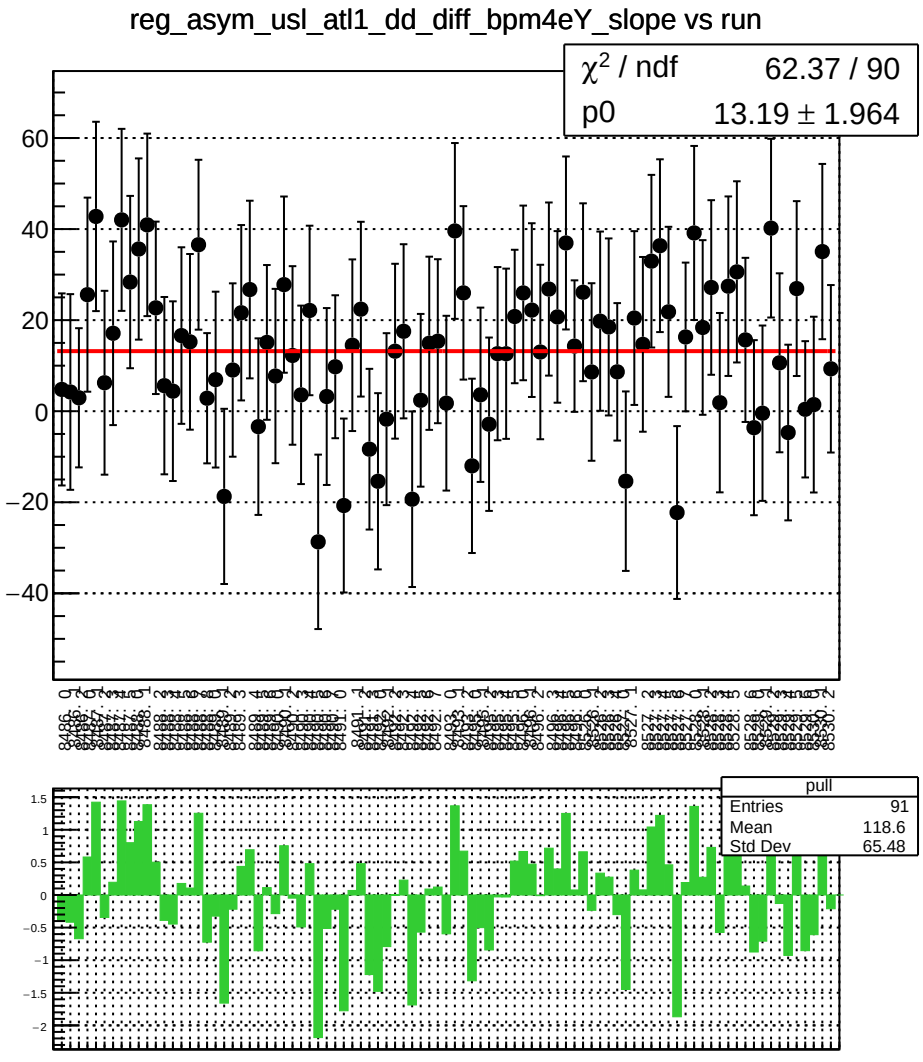

pull1D
Entries 91
Mean 0.004532
Std Dev 0.9561

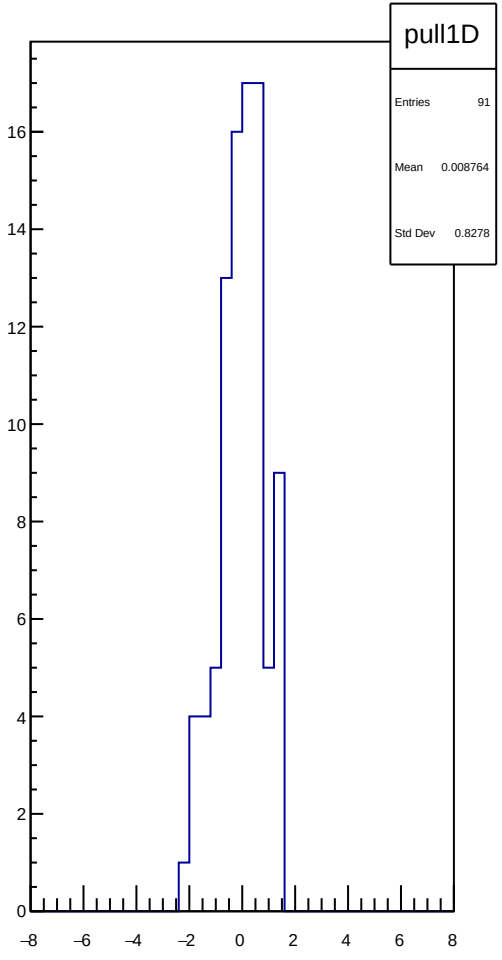

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 61.32 / 90
p0 3.097 ± 1.854
pull
Entries 91
Mean 76.33
Std Dev 95.81

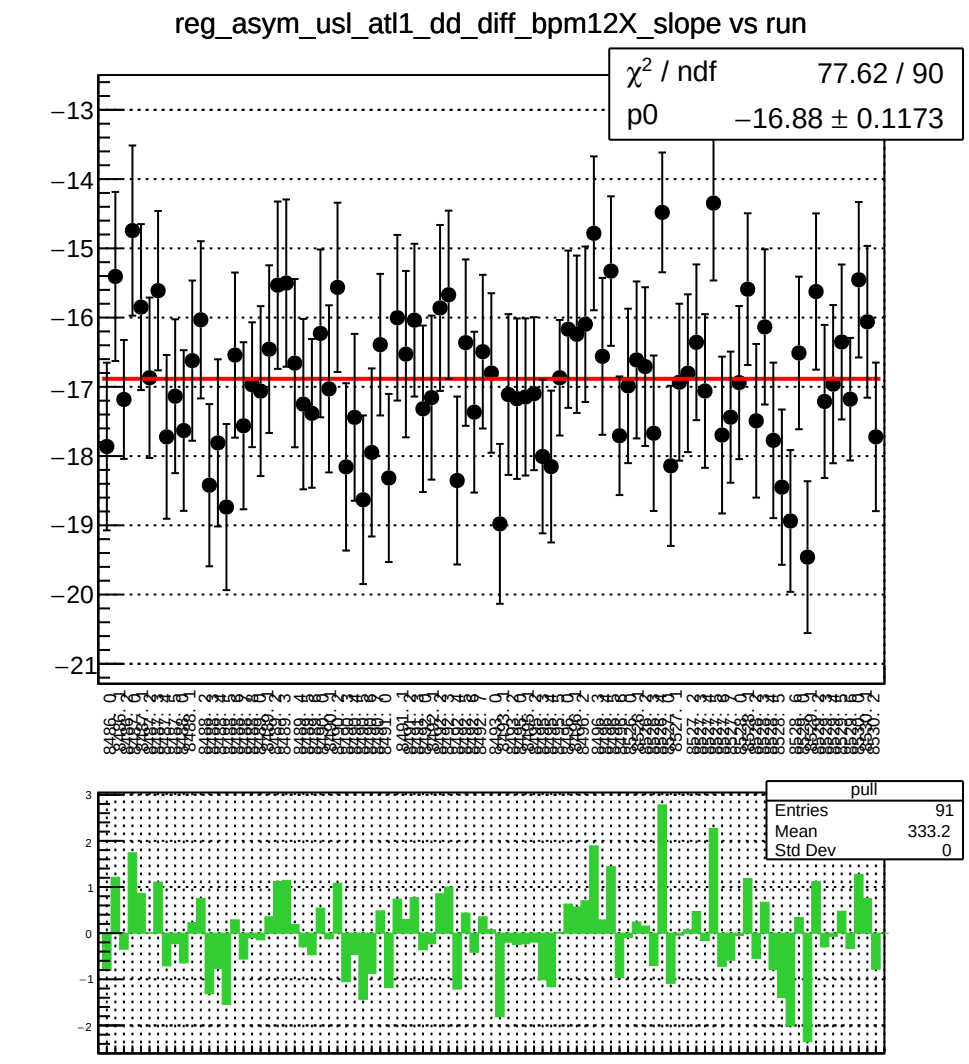

pull1D
Entries 91
Mean −0.007772
Std Dev 0.8209

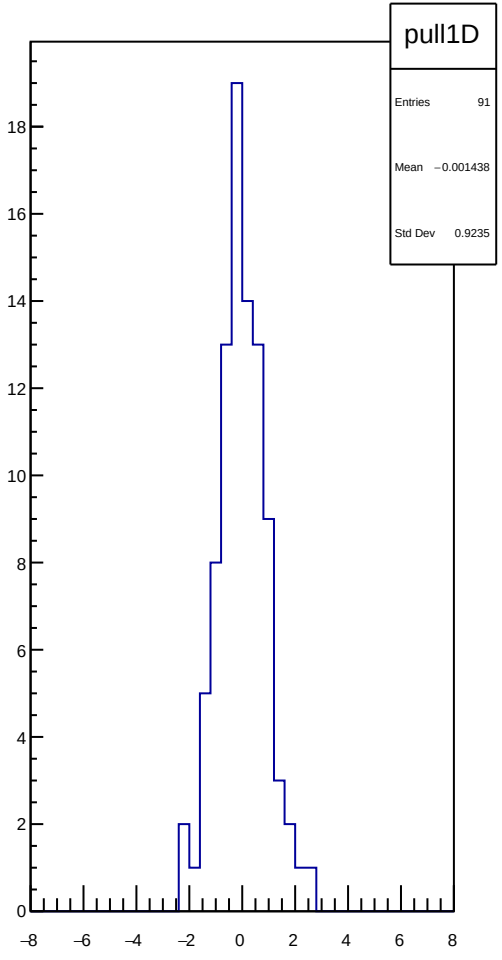

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 79.88 / 90
p0 −17.99 ± 1.257
pull
Entries 91
Mean 139.7
Std Dev 0

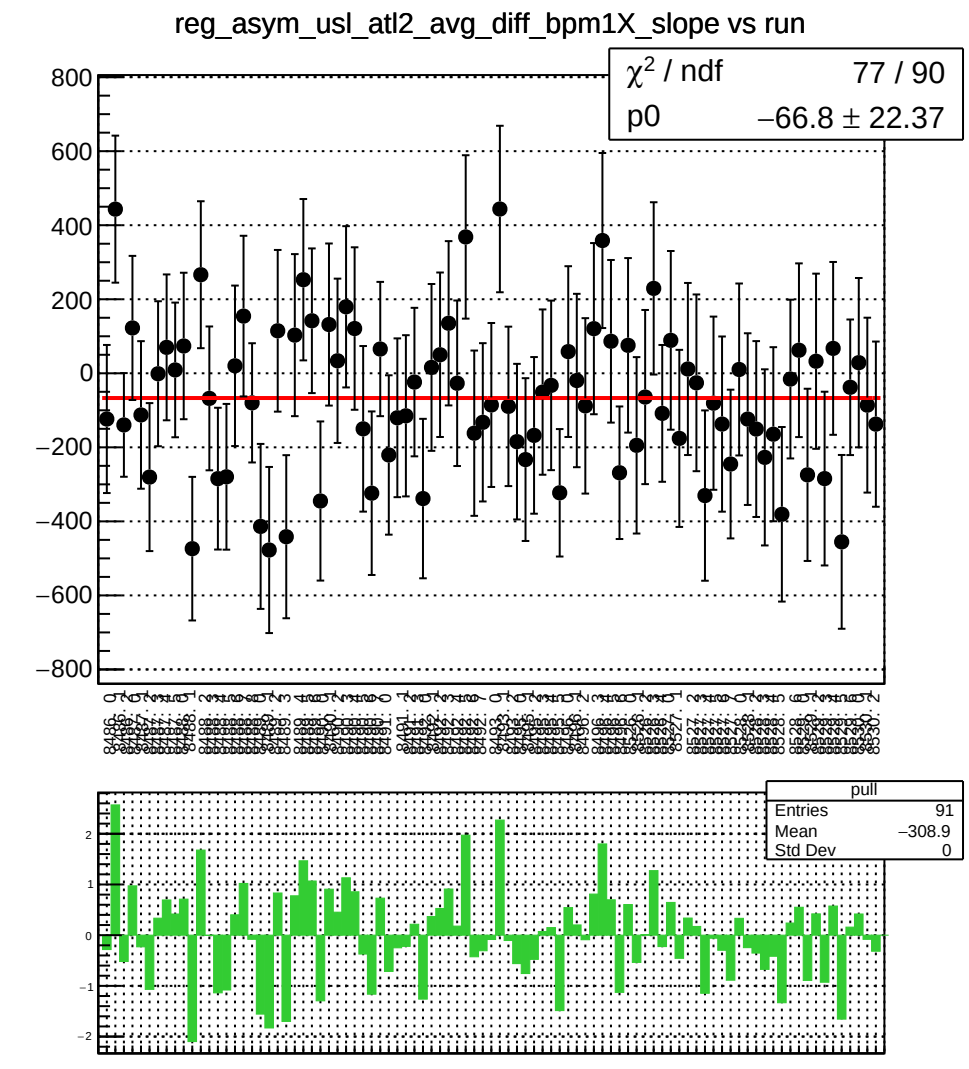

pull1D
Entries 91
Mean −0.00655
Std Dev 0.9369

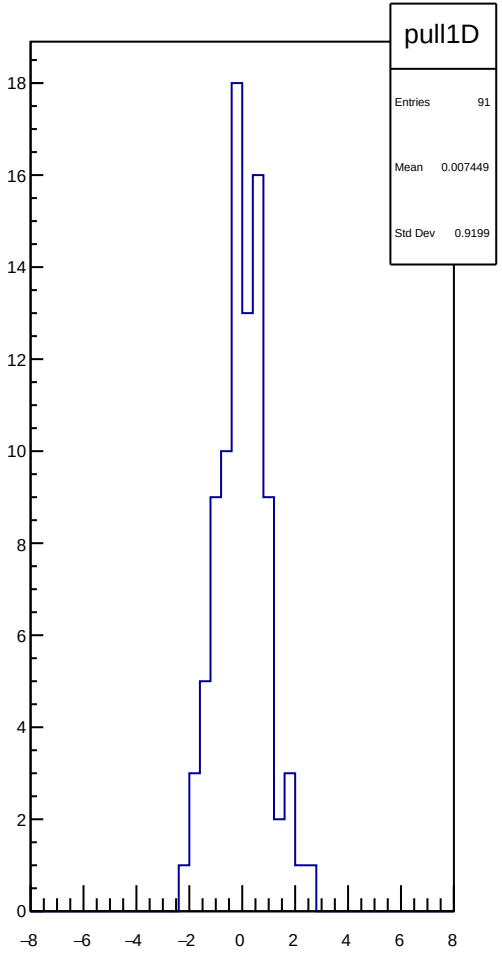

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 62.37 / 90
p0 13.19 ± 1.964
pull
Entries 91
Mean 118.6
Std Dev 65.48

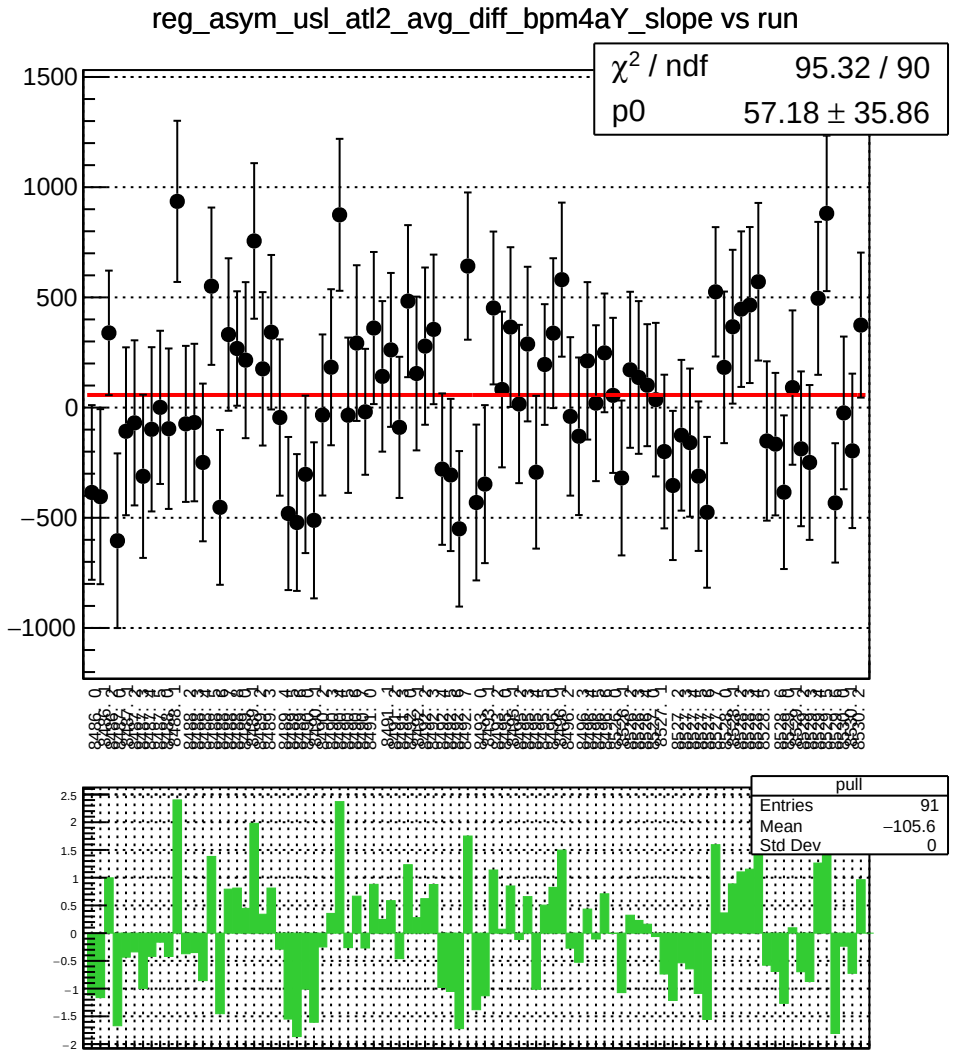

pull1D
Entries 91
Mean 0.008764
Std Dev 0.8278

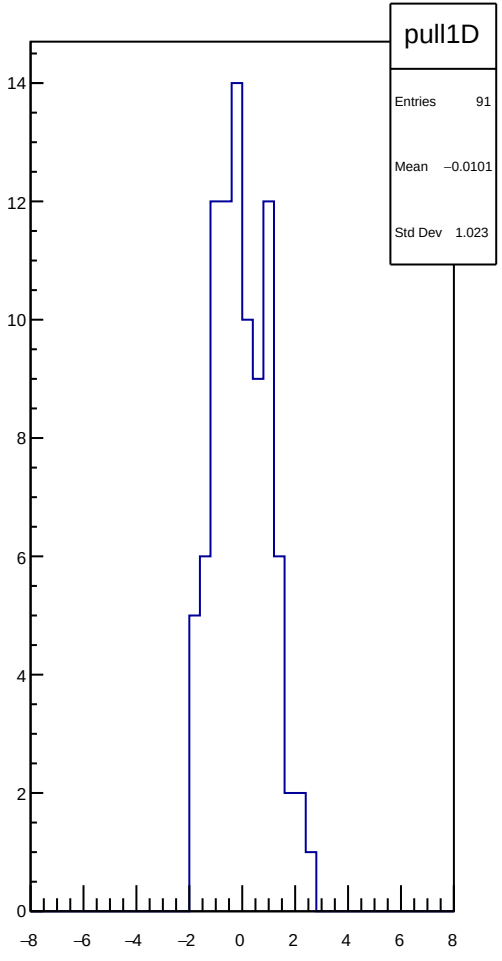

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 77.62 / 90
p0 −16.88 ± 0.1173
pull
Entries 91
Mean 333.2
Std Dev 0

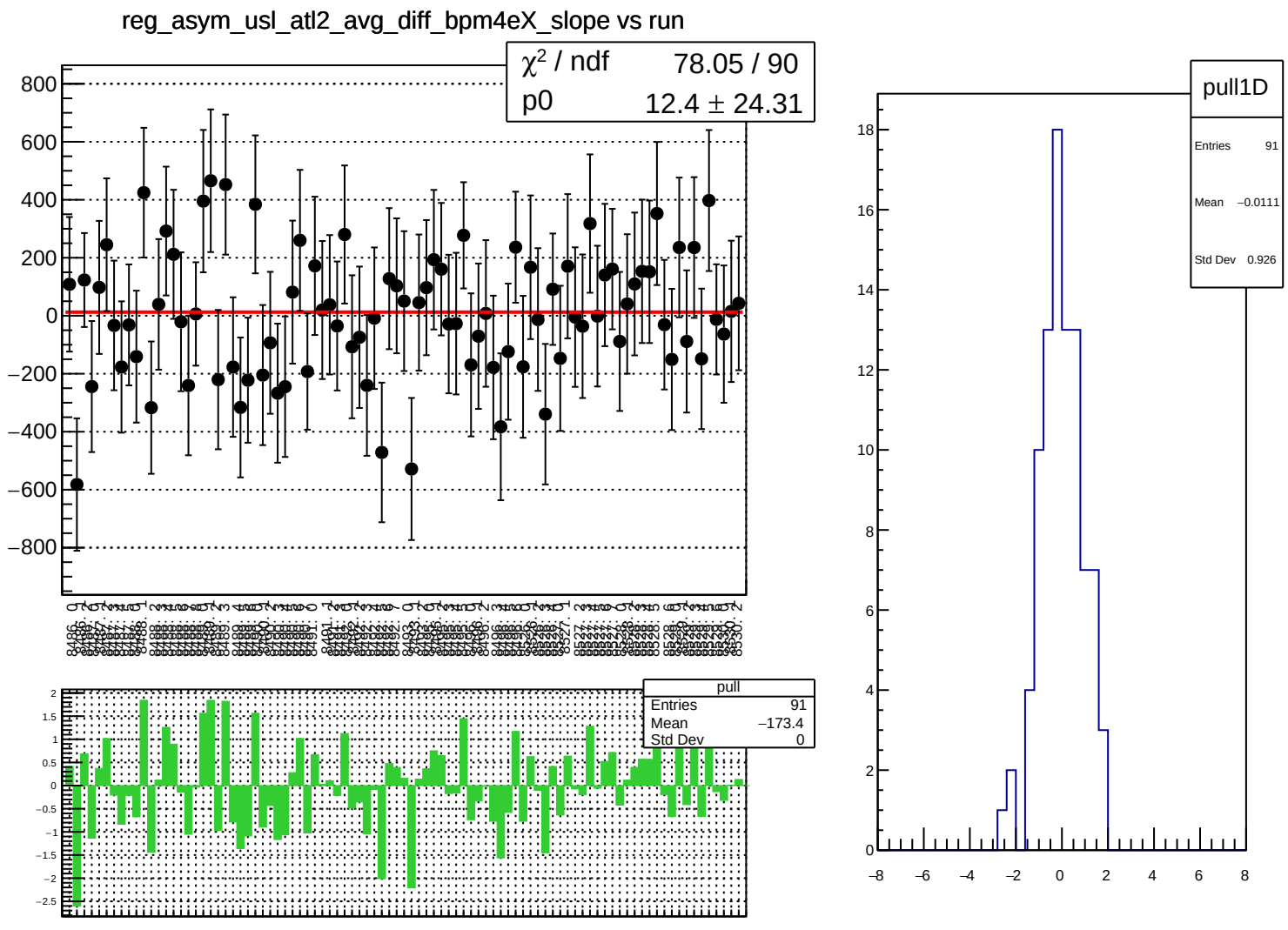

pull1D
Entries 91
Mean −0.001438
Std Dev 0.9235

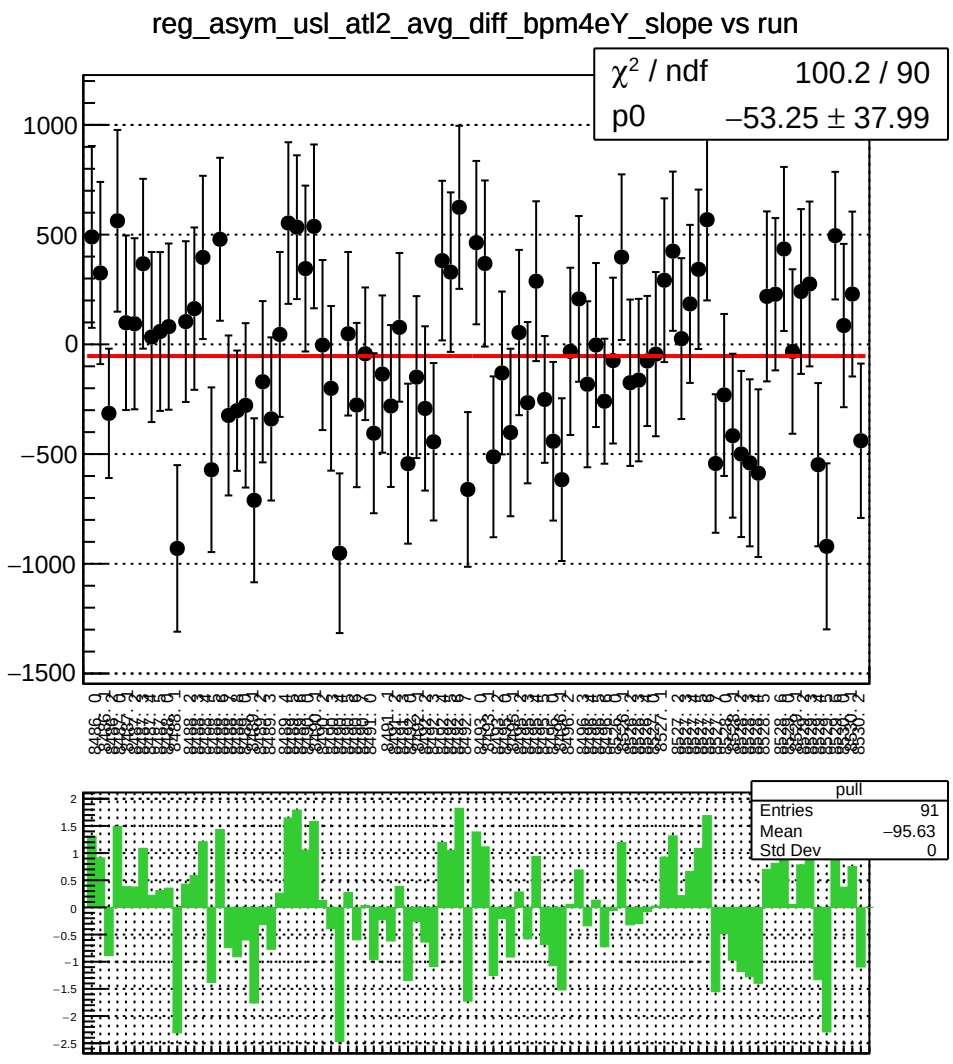

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 77 / 90
p0 −66.8 ± 22.37
pull
Entries 91
Mean −308.9
Std Dev 0

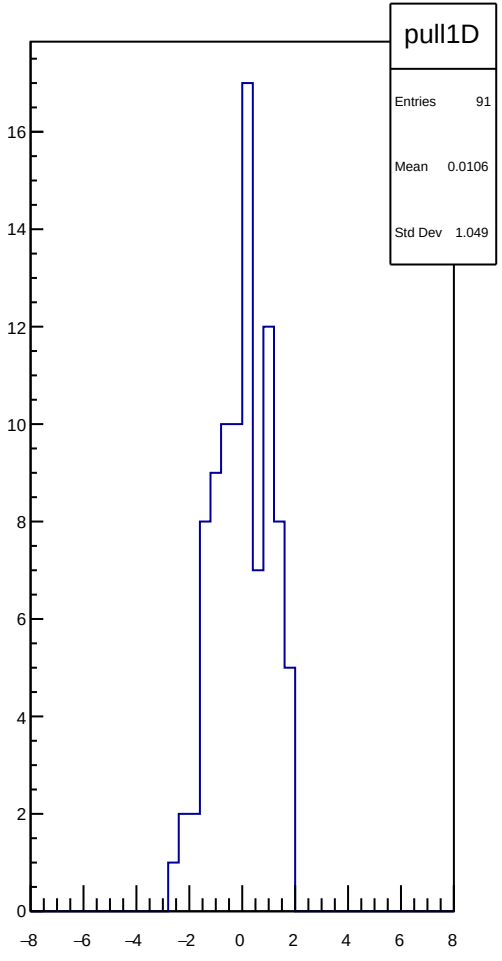

pull1D
Entries 91
Mean 0.007449
Std Dev 0.9199

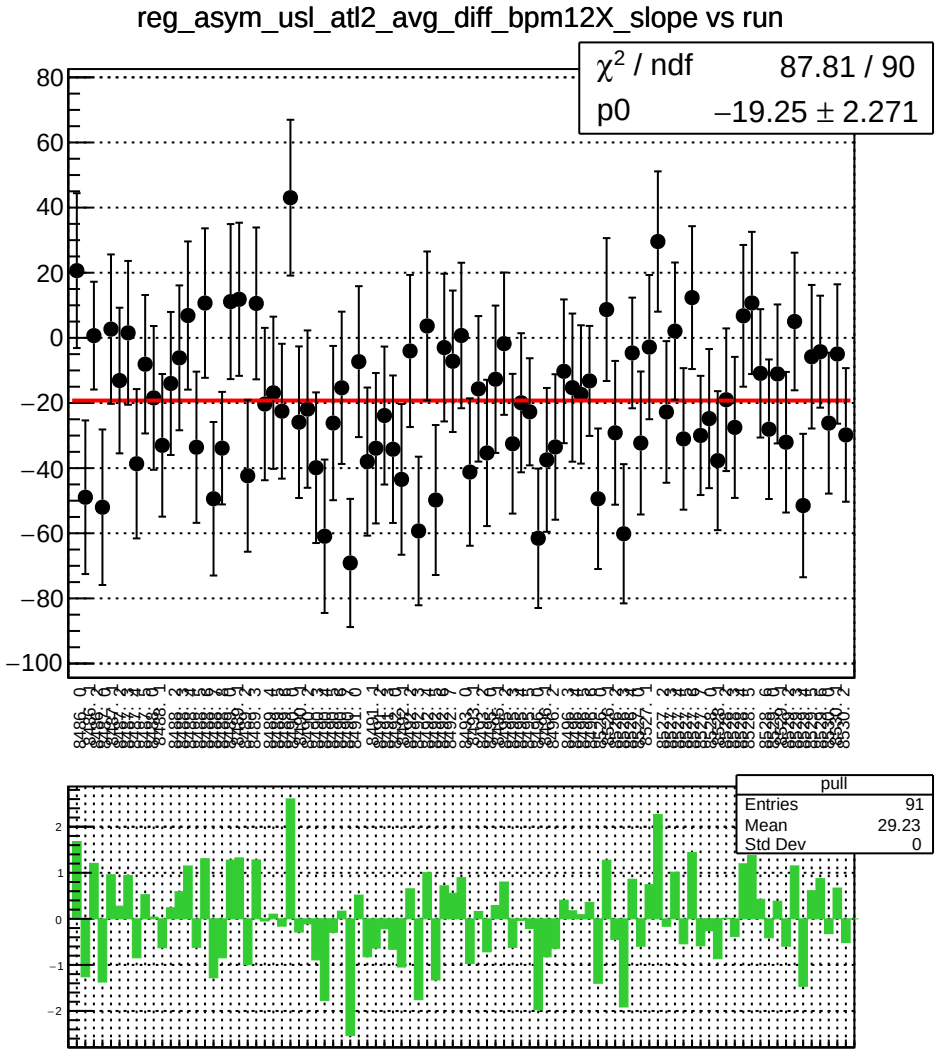

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 95.32 / 90
p0 57.18 ± 35.86
pull
Entries 91
Mean −105.6
Std Dev 0

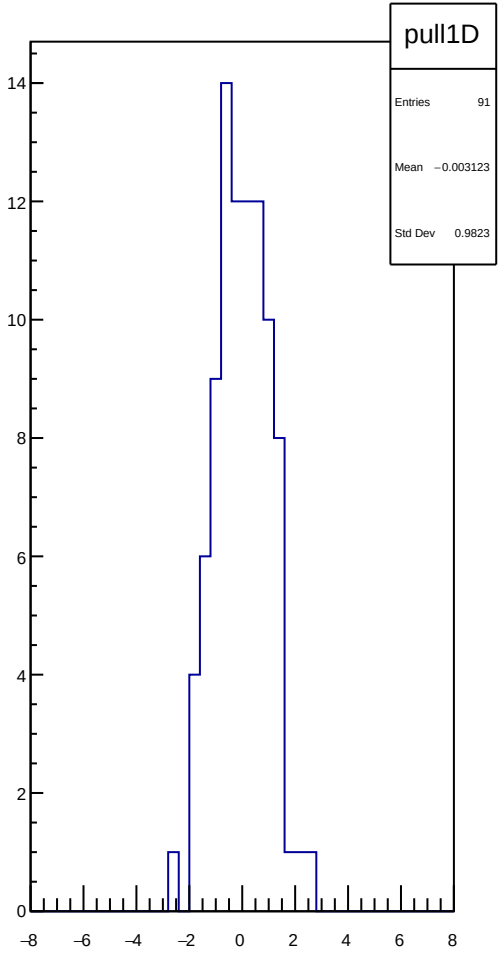

pull1D
Entries 91
Mean −0.0101
Std Dev 1.023

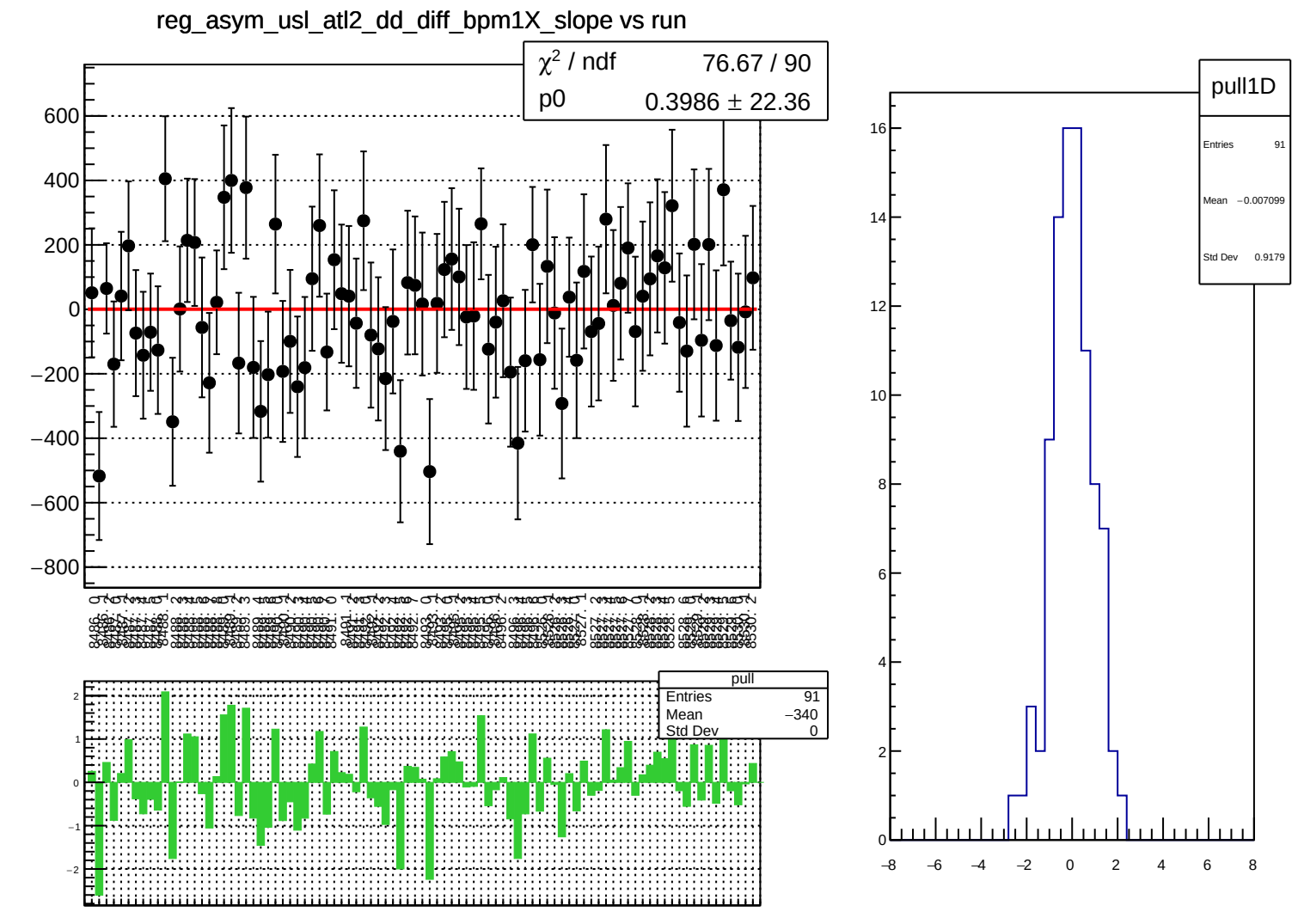

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 78.05 / 90
p0 12.4 ± 24.31
pull
Entries 91
Mean −173.4
Std Dev 0
pull1D
Entries 91
Mean −0.0111
Std Dev 0.926

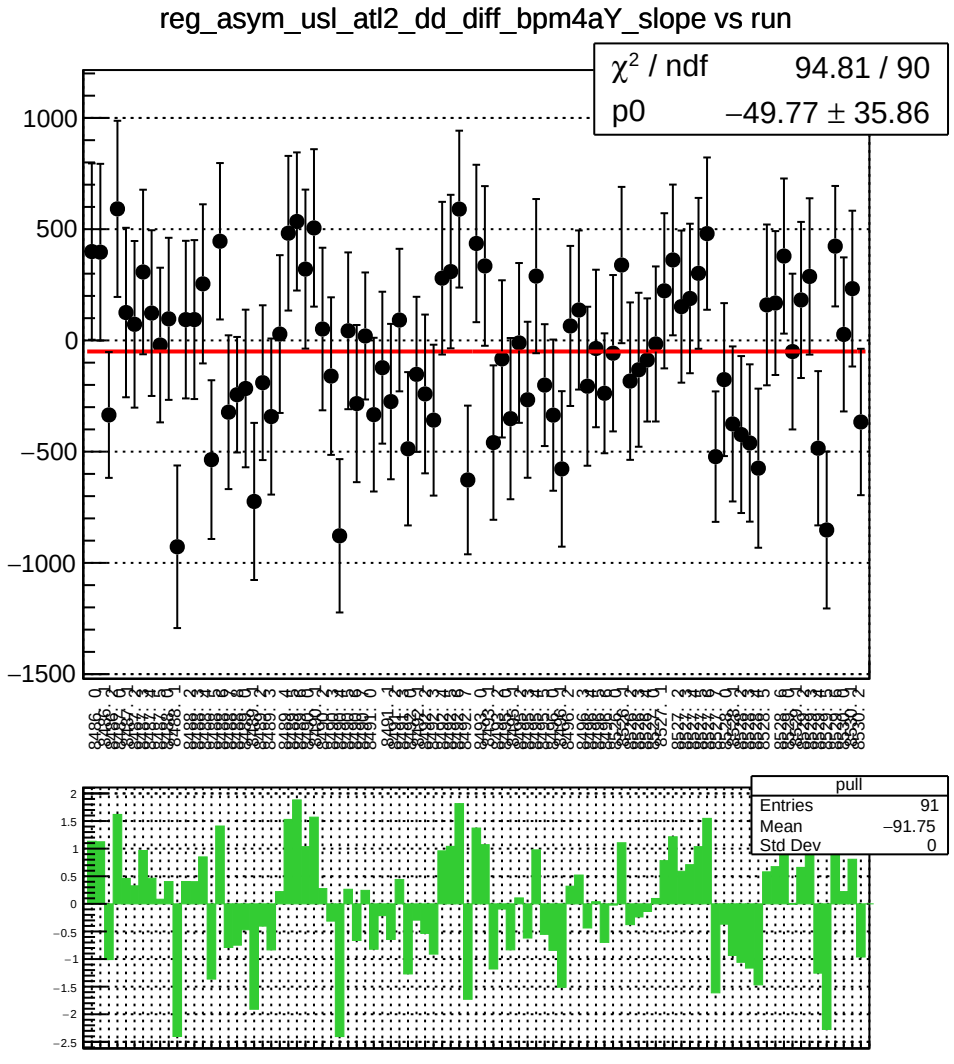

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 100.2 / 90
p0 −53.25 ± 37.99
pull
Entries 91
Mean −95.63
Std Dev 0

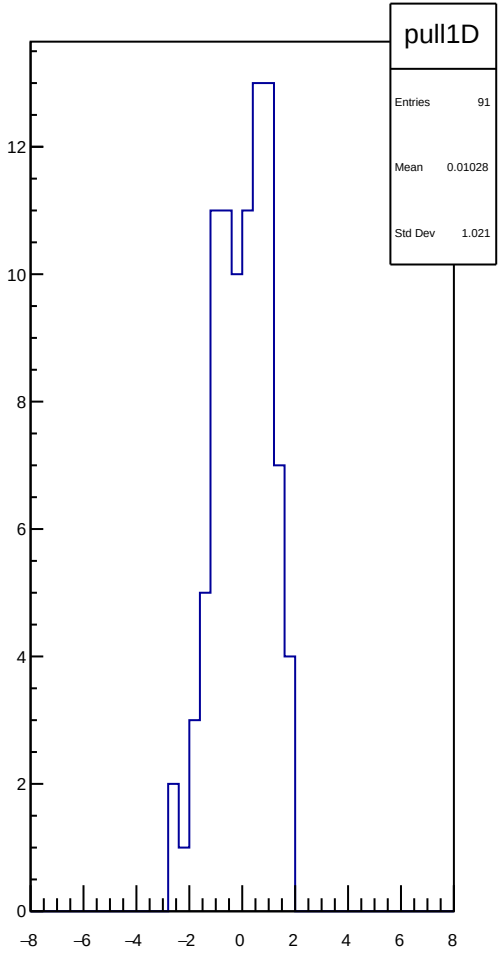

pull1D
Entries 91
Mean 0.0106
Std Dev 1.049

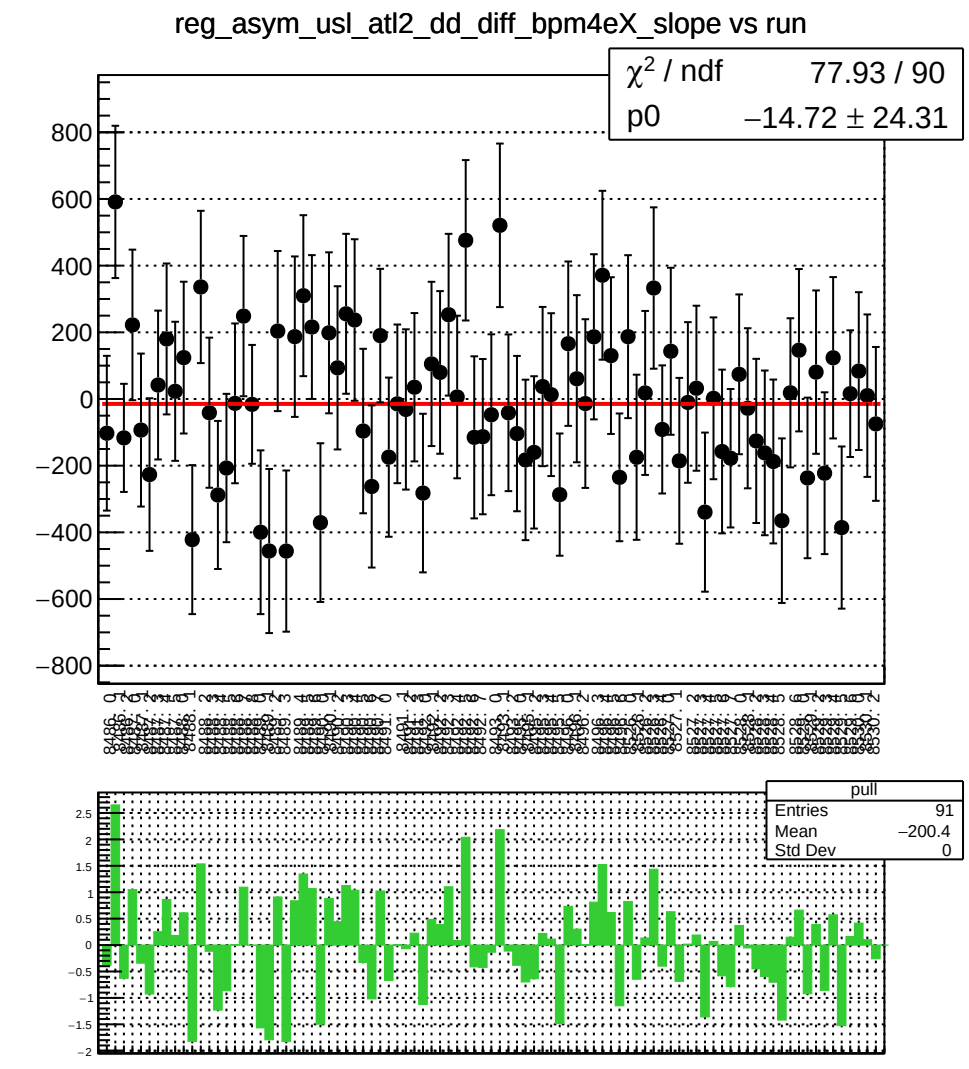

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 87.81 / 90
p0 −19.25 ± 2.271
pull
Entries 91
Mean 29.23
Std Dev 0

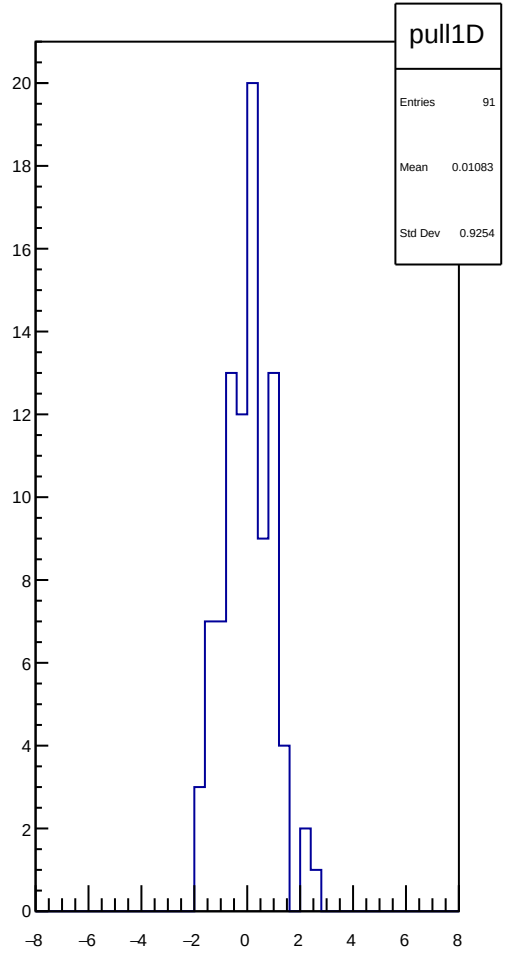

pull1D
Entries 91
Mean −0.003123
Std Dev 0.9823

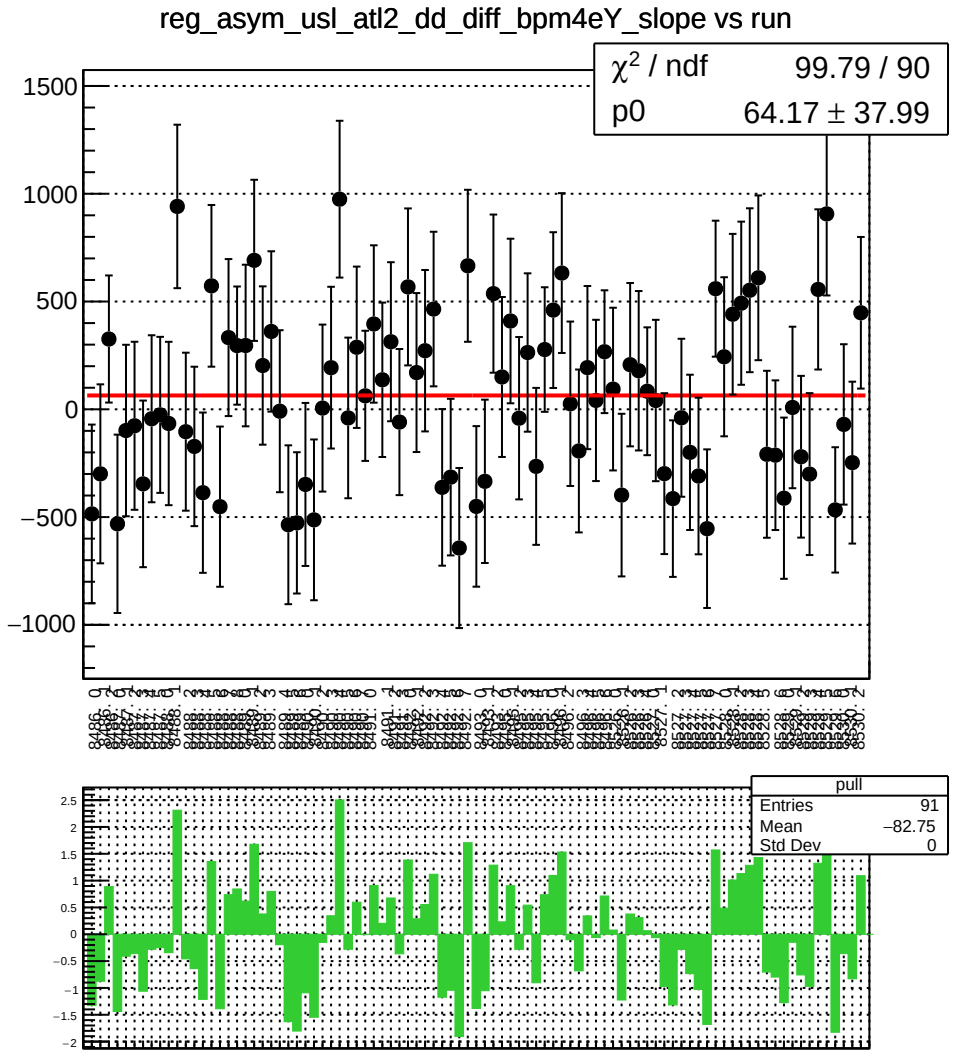

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 76.67 / 90
p0 0.3986 ± 22.36
pull
Entries 91
Mean −340
Std Dev 0
pull1D
Entries 91
Mean −0.007099
Std Dev 0.9179

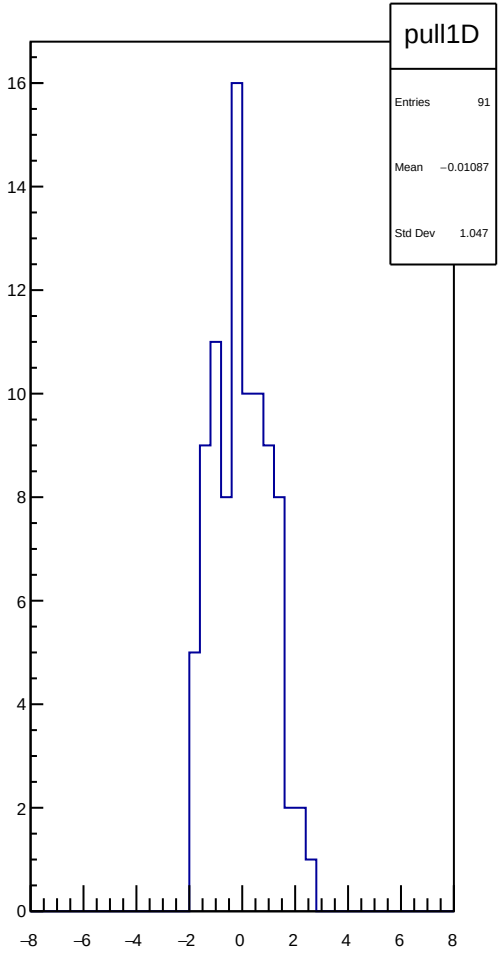

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 94.81 / 90
p0 −49.77 ± 35.86
1000
500
0
−500
−1000
−1500
pull
Entries 91
Mean −91.75
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

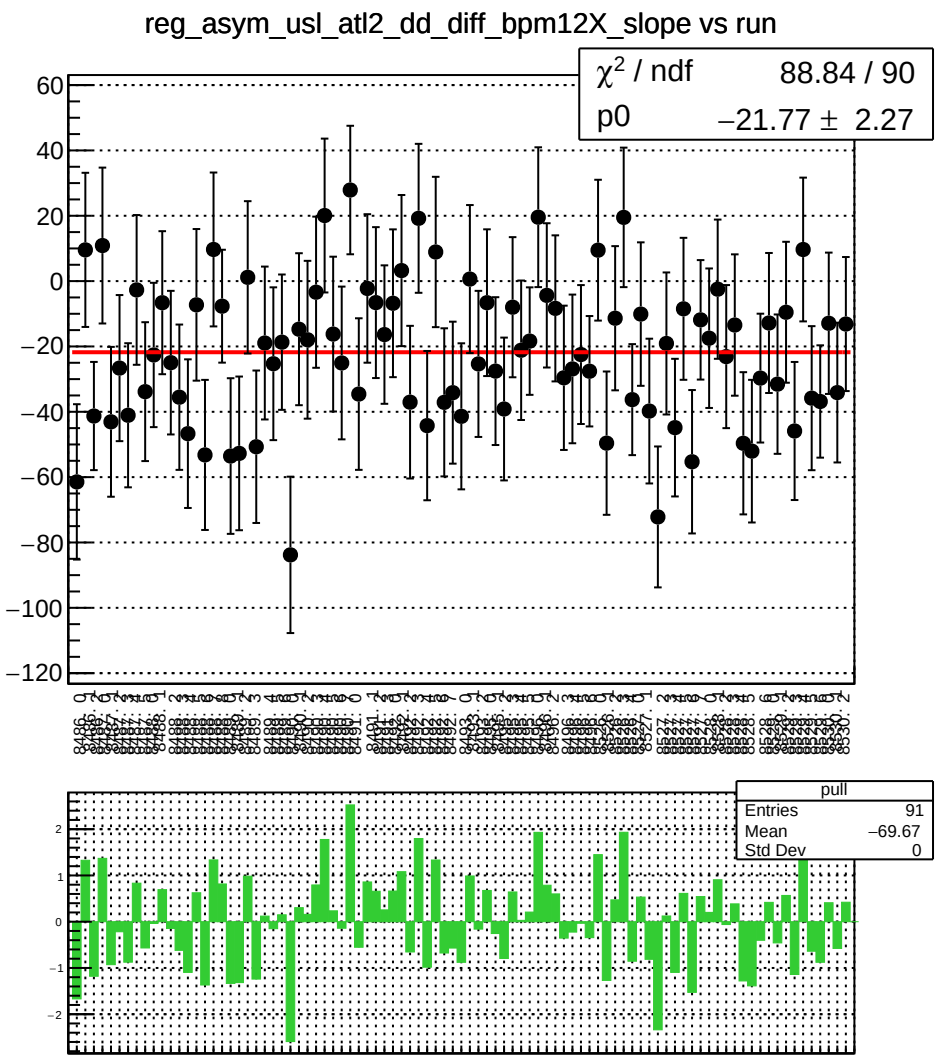

pull1D
Entries 91
Mean 0.01028
Std Dev 1.021
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

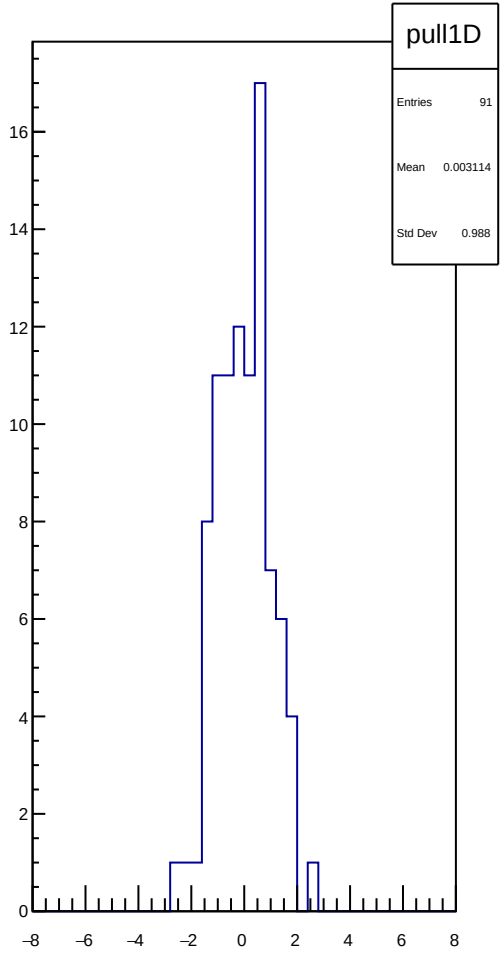

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 77.93 / 90
p0 −14.72 ± 24.31
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 91
Mean −200.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

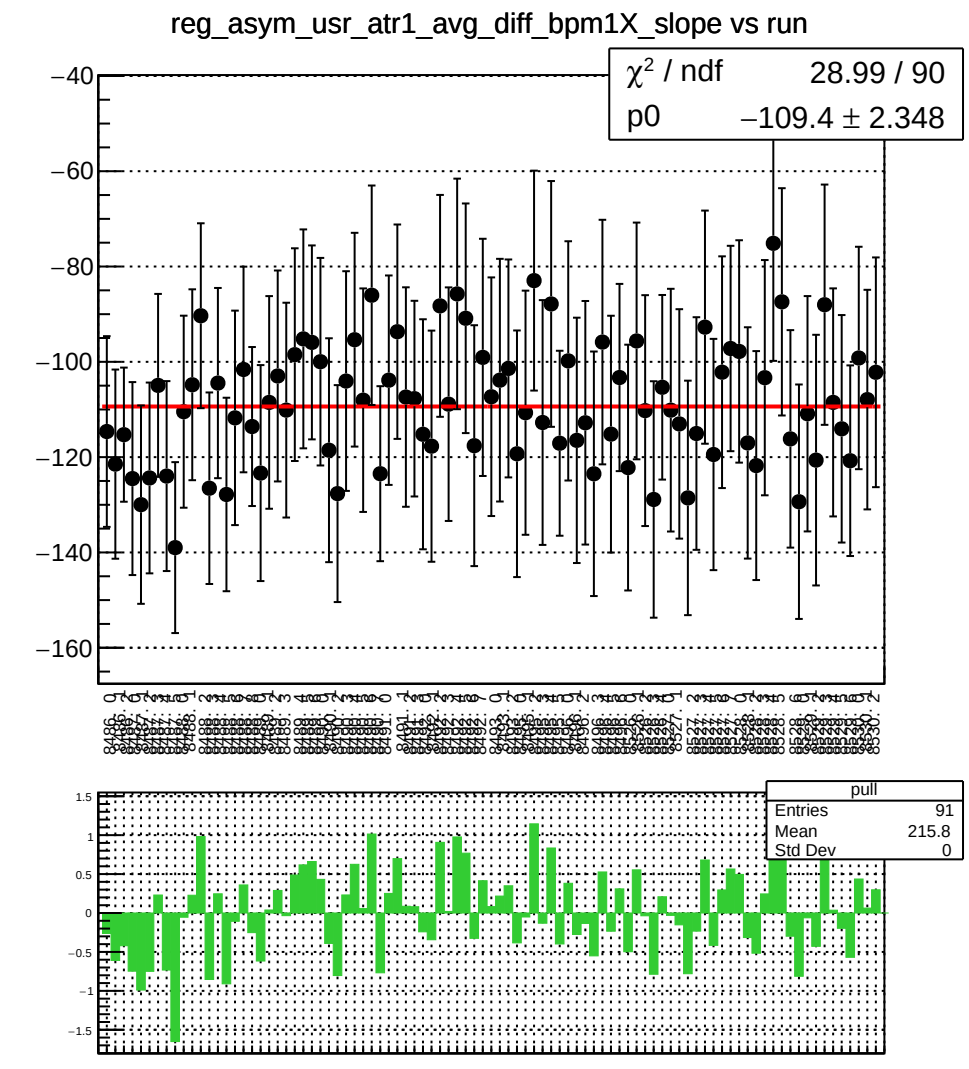

pull1D
Entries 91
Mean 0.01083
Std Dev 0.9254
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

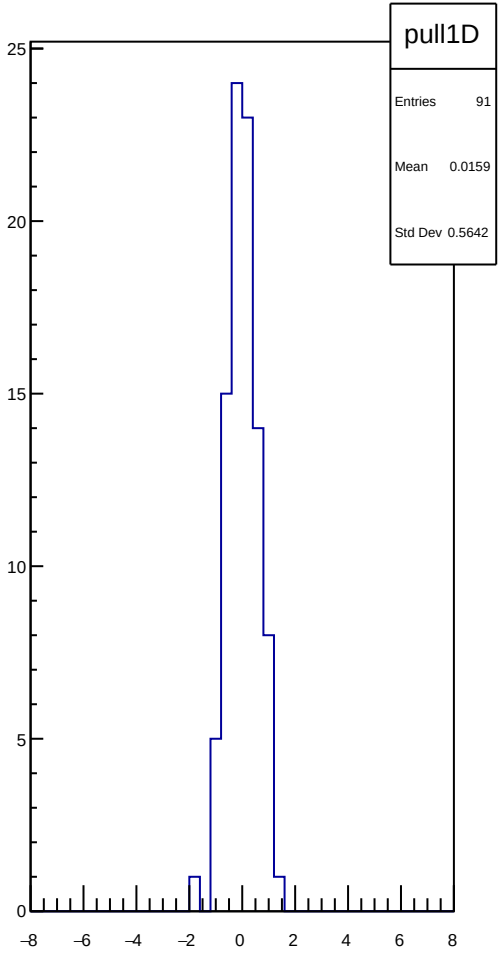

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 99.79 / 90
p0 64.17 ± 37.99
pull
Entries 91
Mean −82.75
Std Dev 0

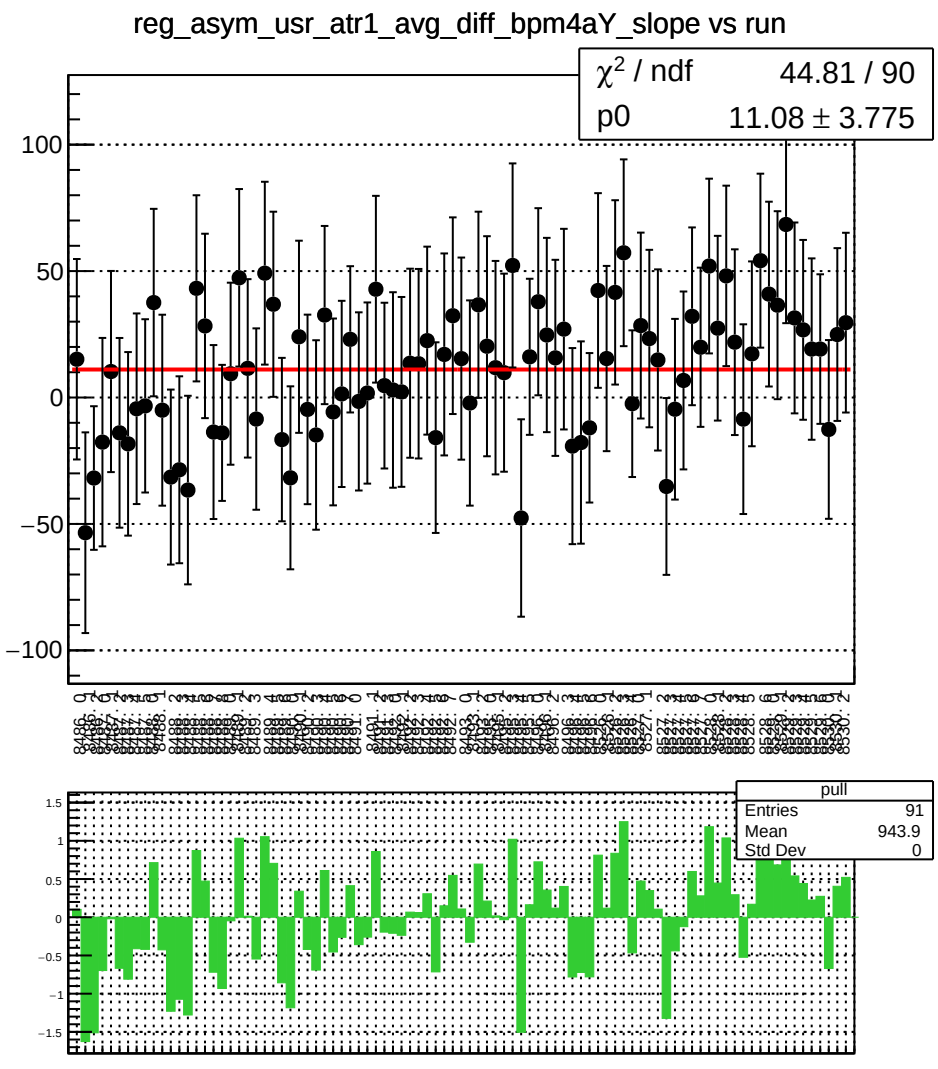

pull1D
Entries 91
Mean −0.01087
Std Dev 1.047

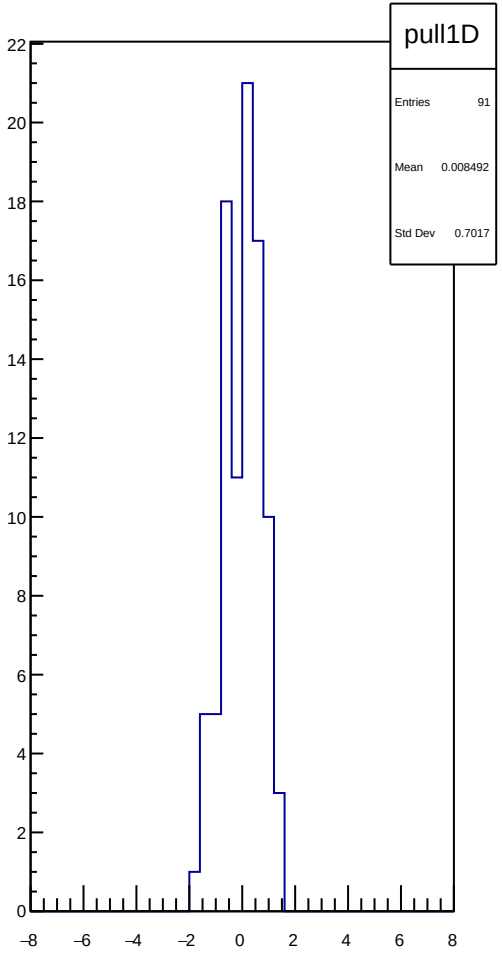

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 88.84 / 90
p0 −21.77 ± 2.27
pull
Entries 91
Mean −69.67
Std Dev 0

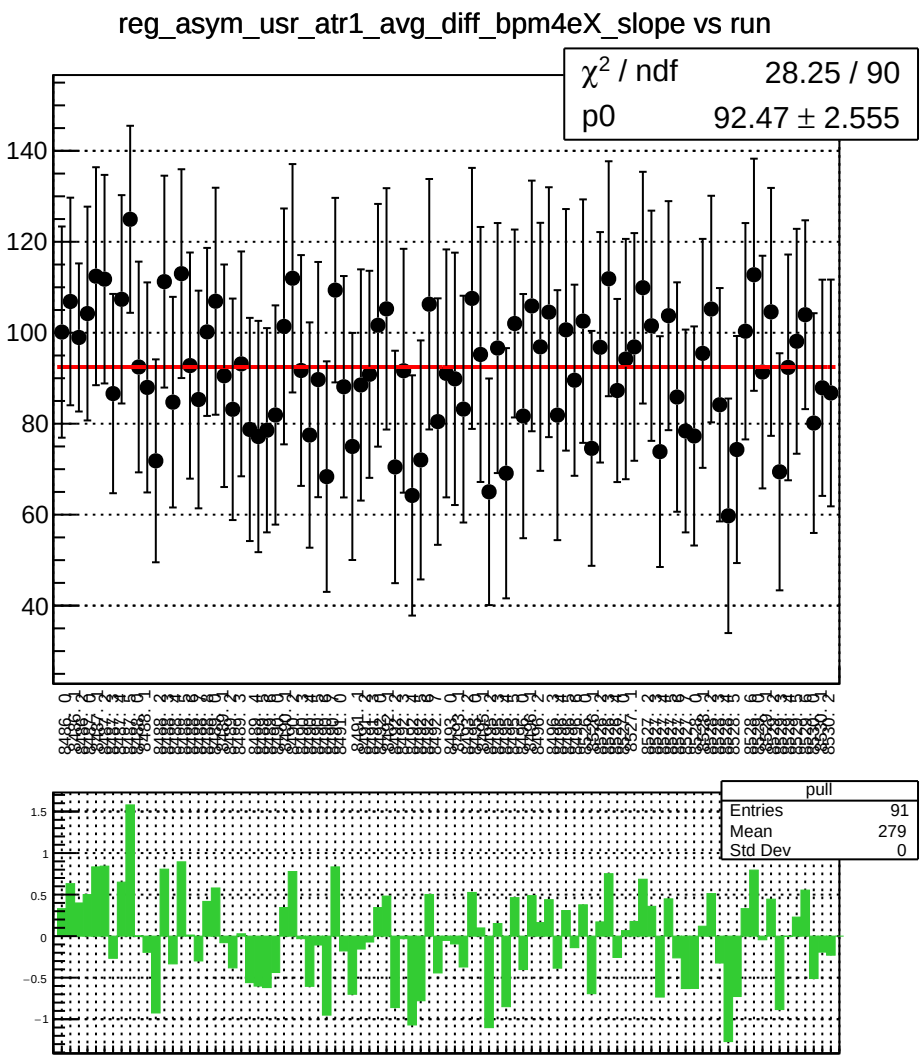

pull1D
Entries 91
Mean 0.003114
Std Dev 0.988

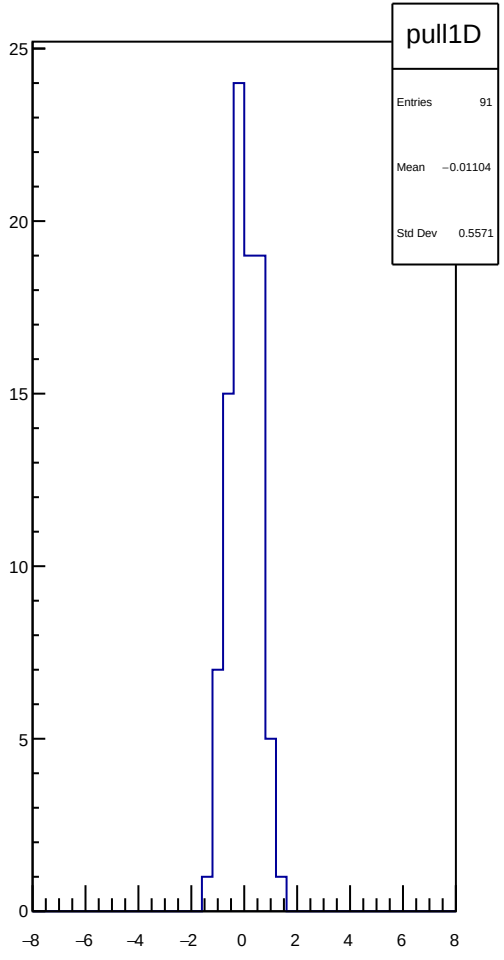

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 28.99 / 90
p0 −109.4 ± 2.348
pull
Entries 91
Mean 215.8
Std Dev 0

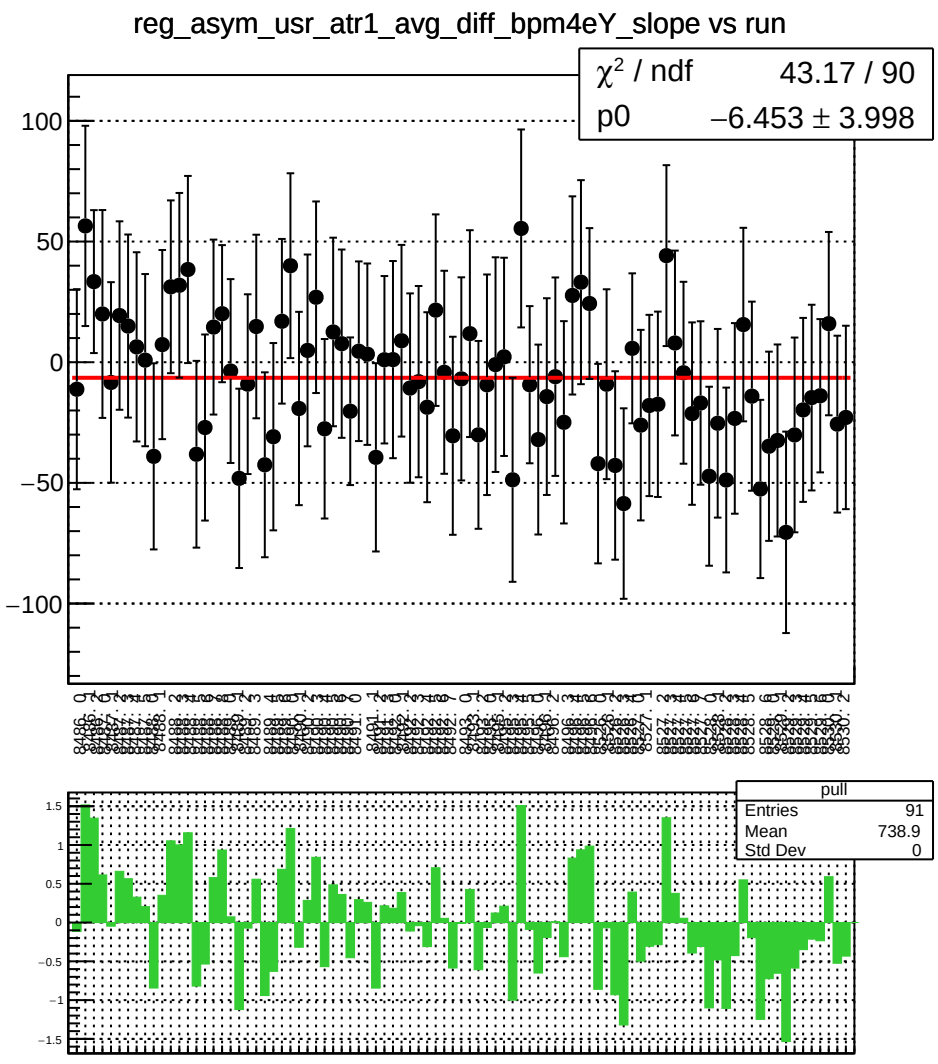

pull1D
Entries 91
Mean 0.0159
Std Dev 0.5642

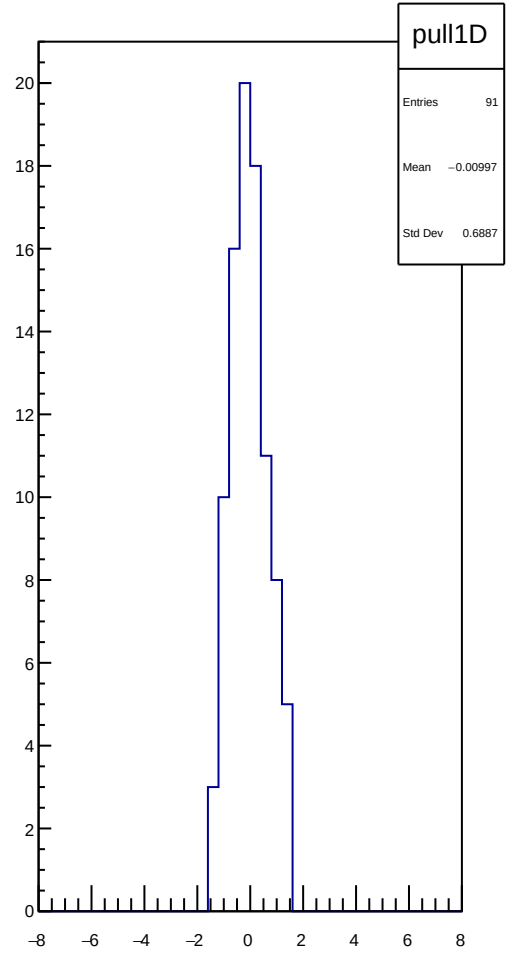

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 44.81 / 90
p0 11.08 ± 3.775
pull
Entries 91
Mean 943.9
Std Dev 0

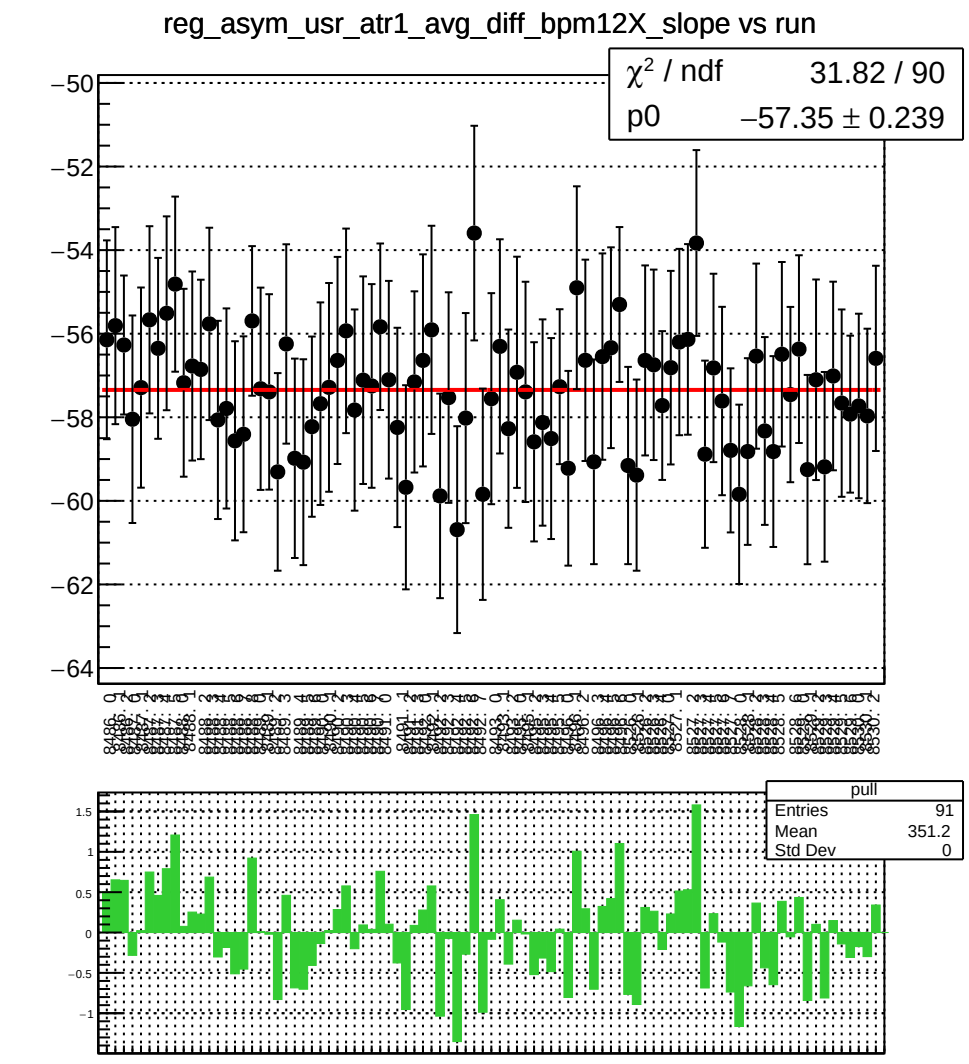

pull1D
Entries 91
Mean 0.008492
Std Dev 0.7017

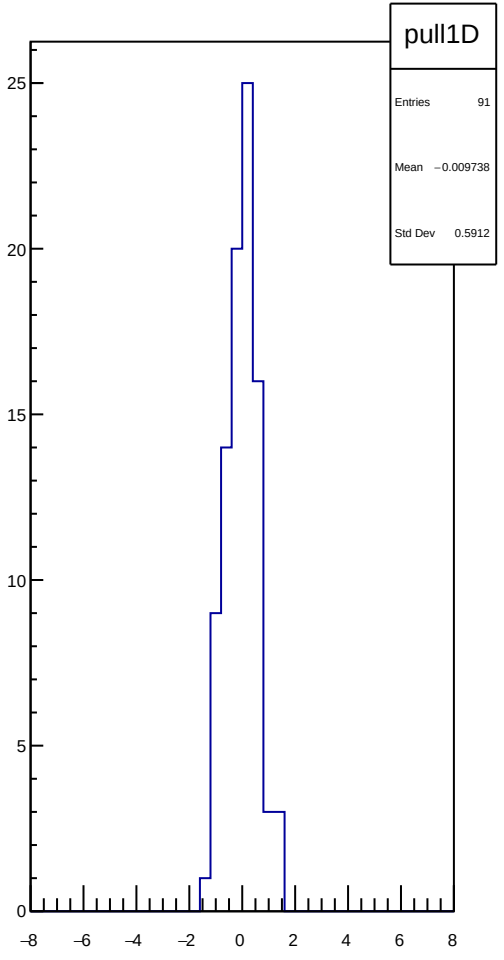

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 28.25 / 90
p0 92.47 ± 2.555
140
120
100
80
60
40
pull
Entries 91
Mean 279
Std Dev 0
1.5
1
0.5
0
−0.5
−1

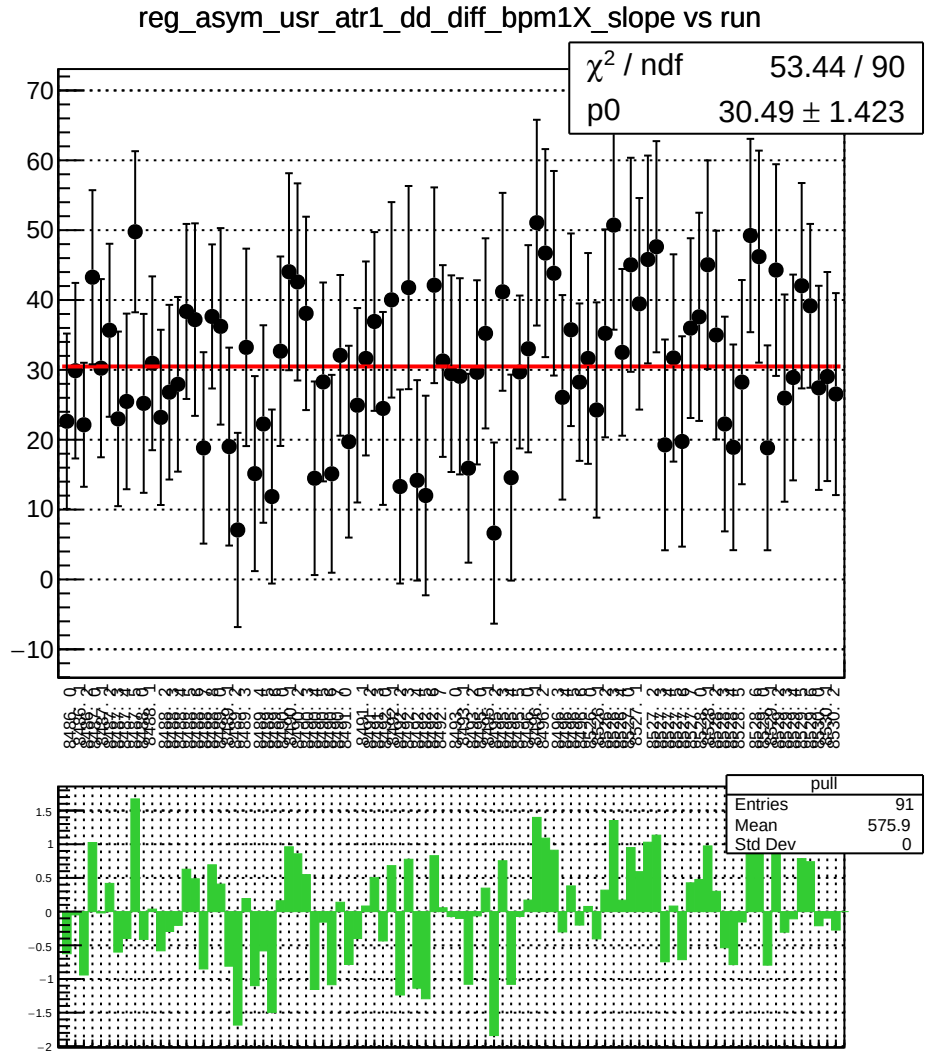

pull1D
Entries 91
Mean −0.01104
Std Dev 0.5571
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

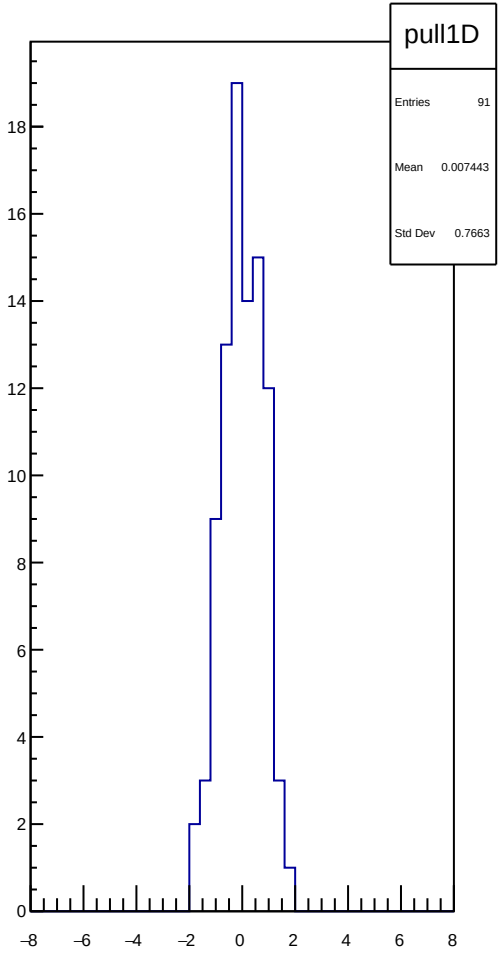

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 43.17 / 90
p0 −6.453 ± 3.998
100
50
0
−50
−100
pull
Entries 91
Mean 738.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

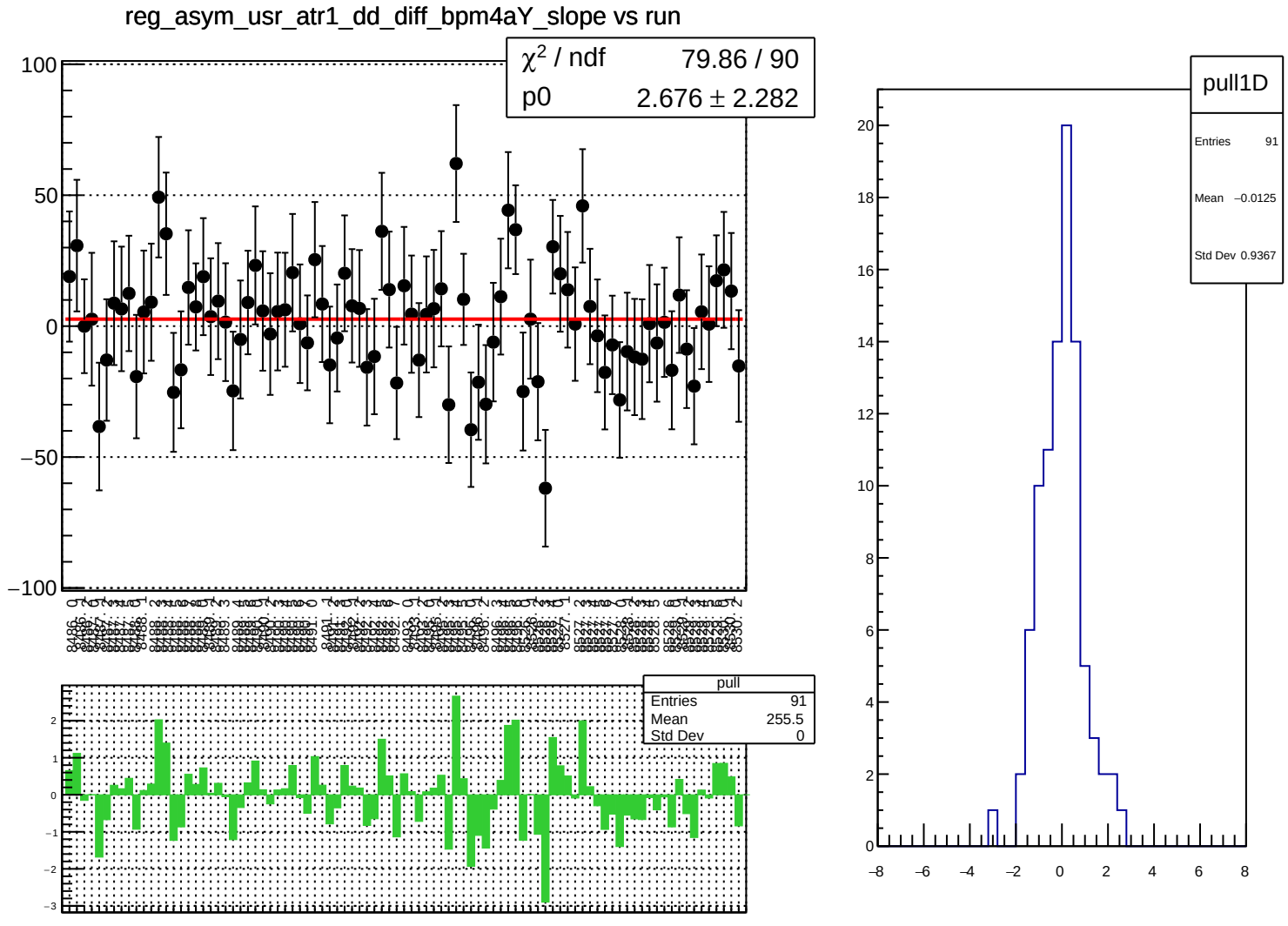

pull1D
Entries 91
Mean −0.00997
Std Dev 0.6887
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

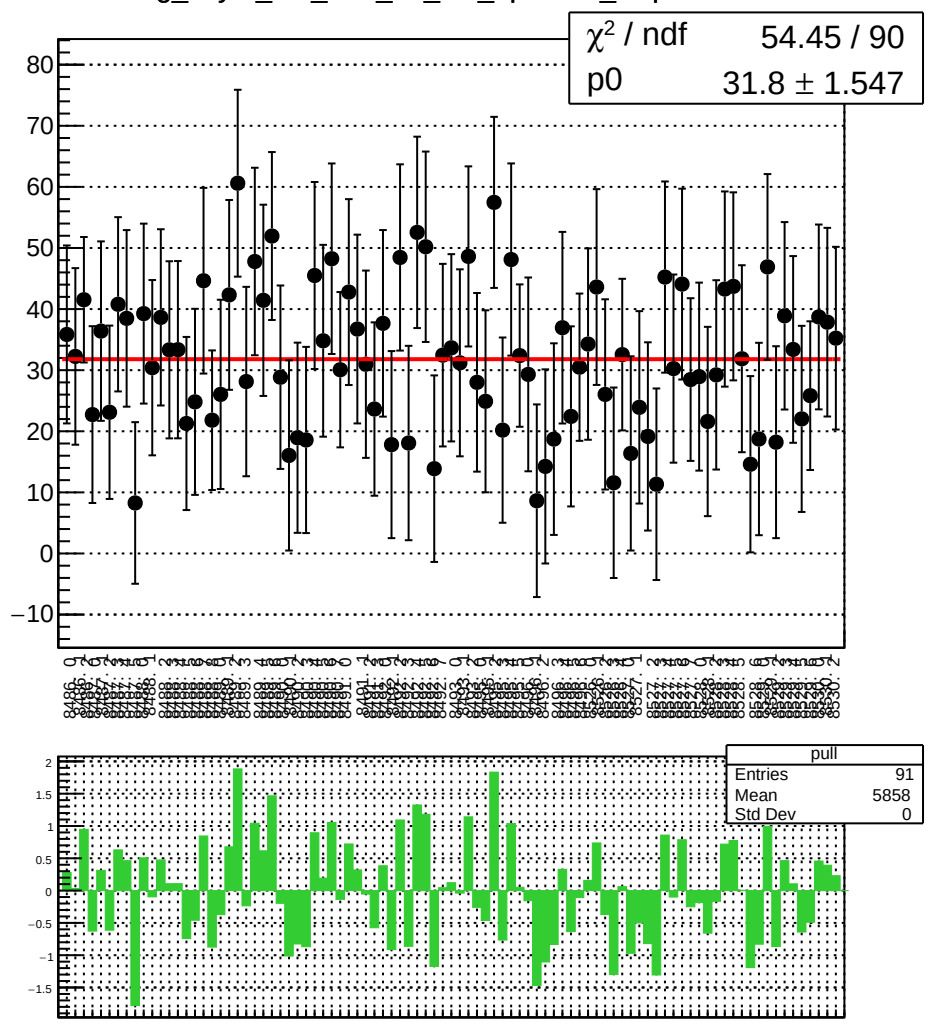

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 31.82 / 90
p0 −57.35 ± 0.239
pull
Entries 91
Mean 351.2
Std Dev 0

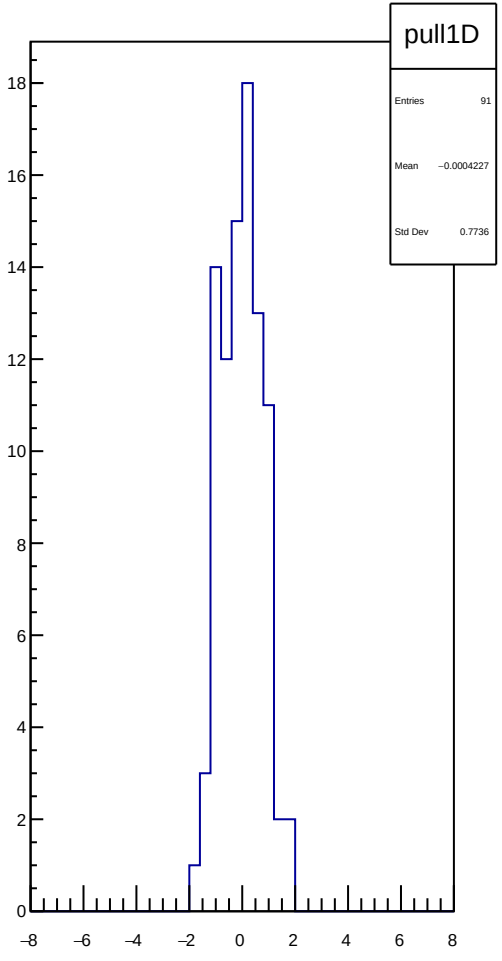

pull1D
Entries 91
Mean −0.009738
Std Dev 0.5912

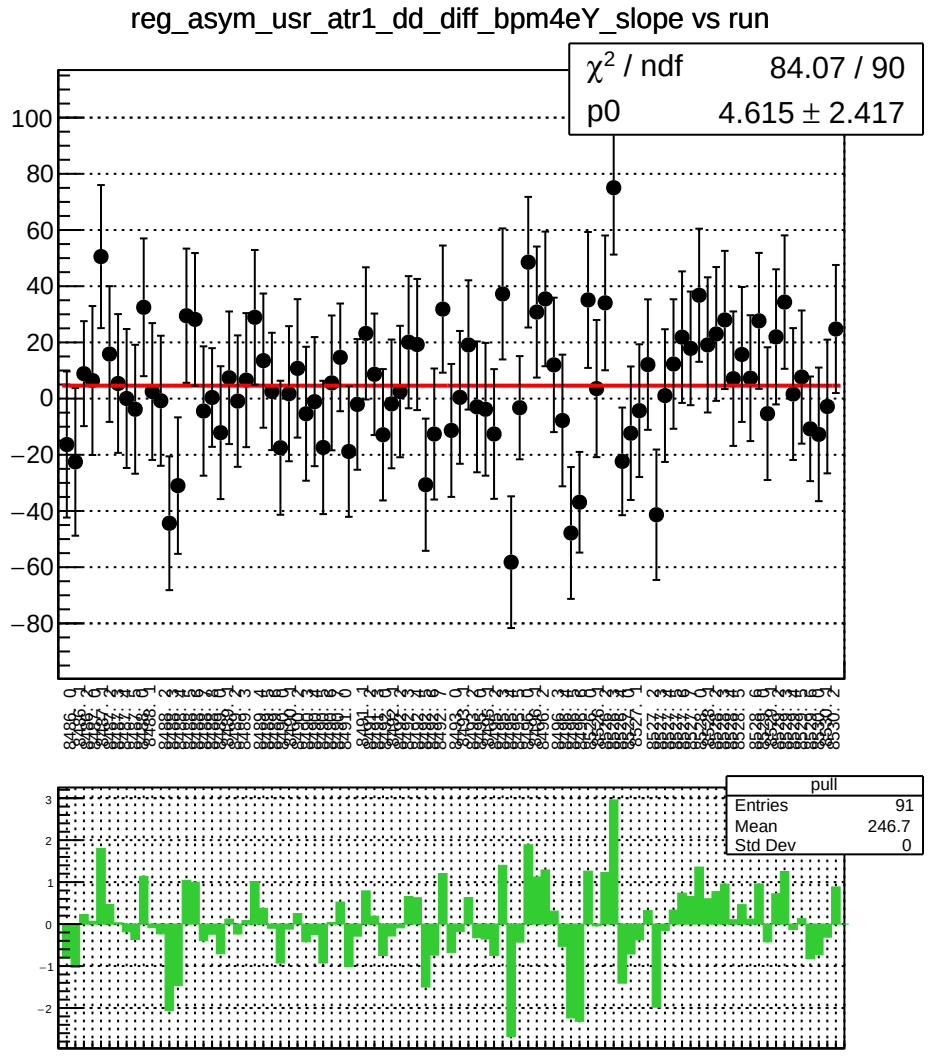

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 53.44 / 90
p0 30.49 ± 1.423
pull
Entries 91
Mean 575.9
Std Dev 0

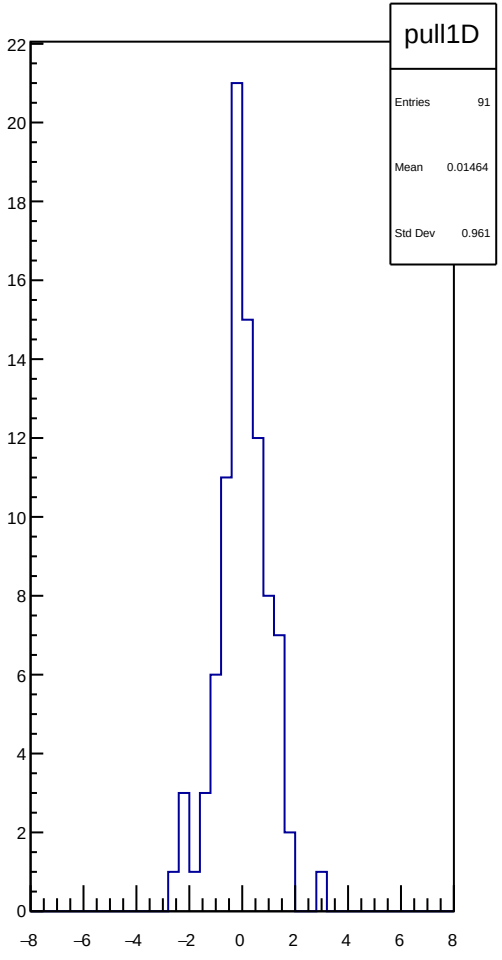

pull1D
Entries 91
Mean 0.007443
Std Dev 0.7663

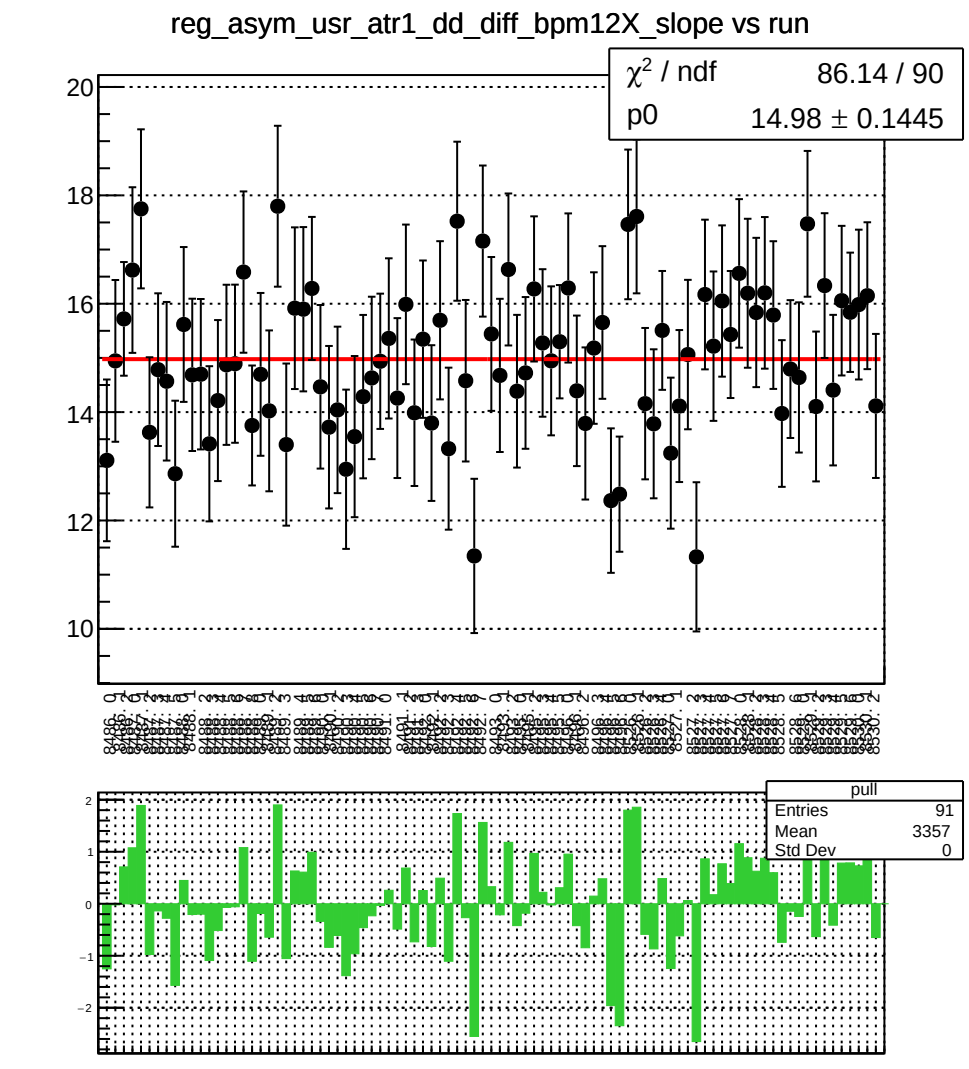

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 79.86 / 90
p0 2.676 ± 2.282
pull
Entries 91
Mean 255.5
Std Dev 0
pull1D
Entries 91
Mean −0.0125
Std Dev 0.9367

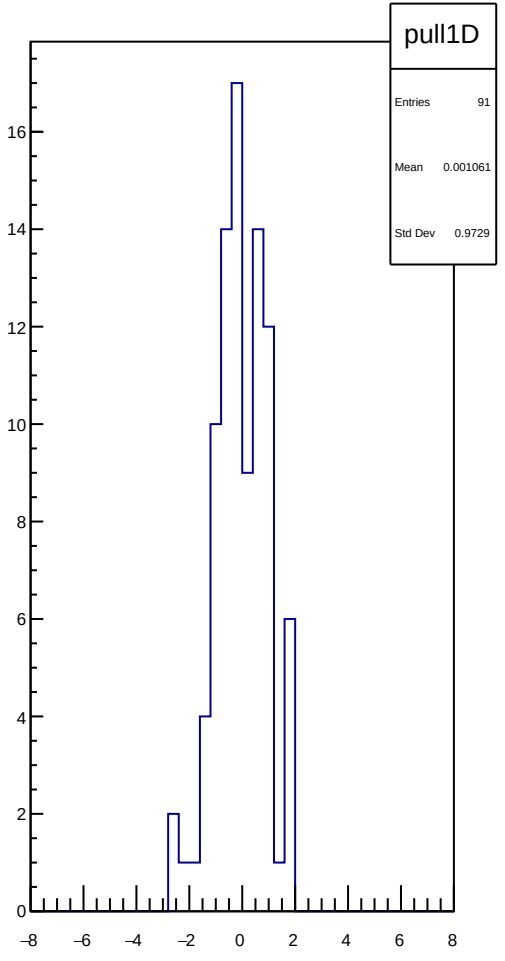

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 54.45 / 90
p0 31.8 ± 1.547
pull
Entries 91
Mean 5858
Std Dev 0

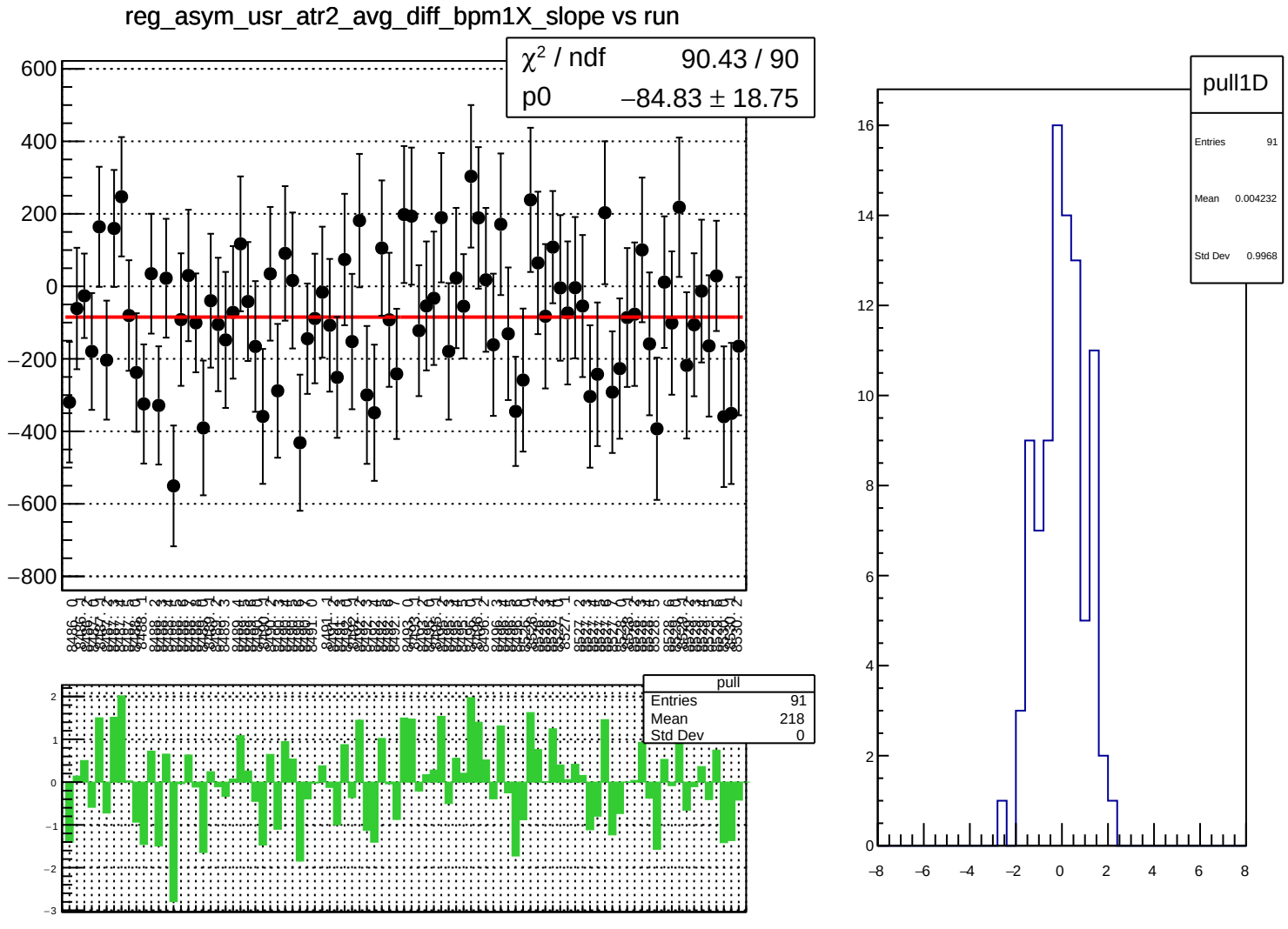

pull1D
Entries 91
Mean −0.0004227
Std Dev 0.7736

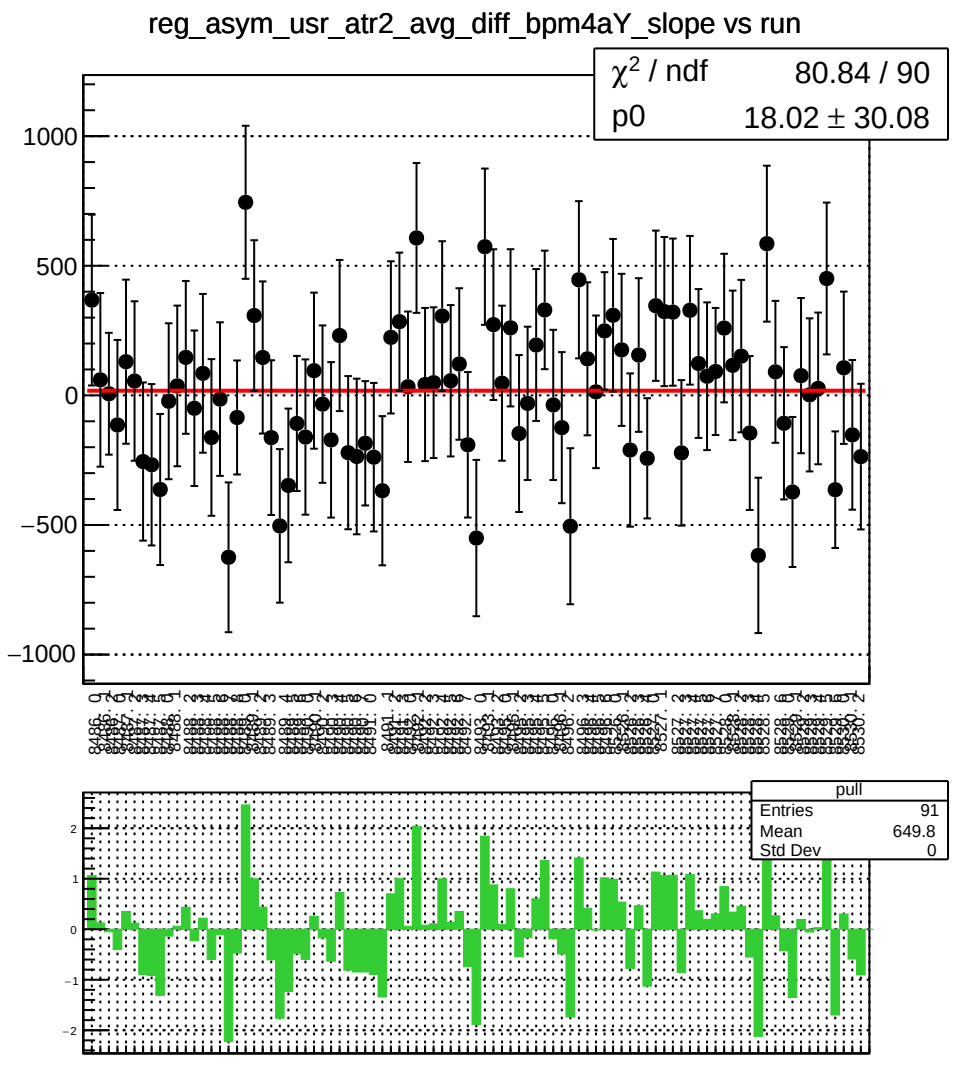

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 84.07 / 90
p0 4.615 ± 2.417
pull
Entries 91
Mean 246.7
Std Dev 0

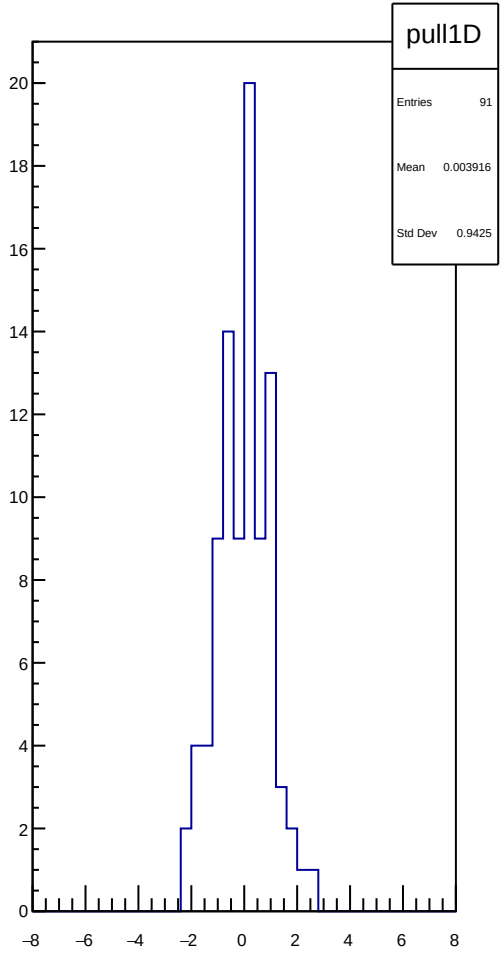

pull1D
Entries 91
Mean 0.01464
Std Dev 0.961

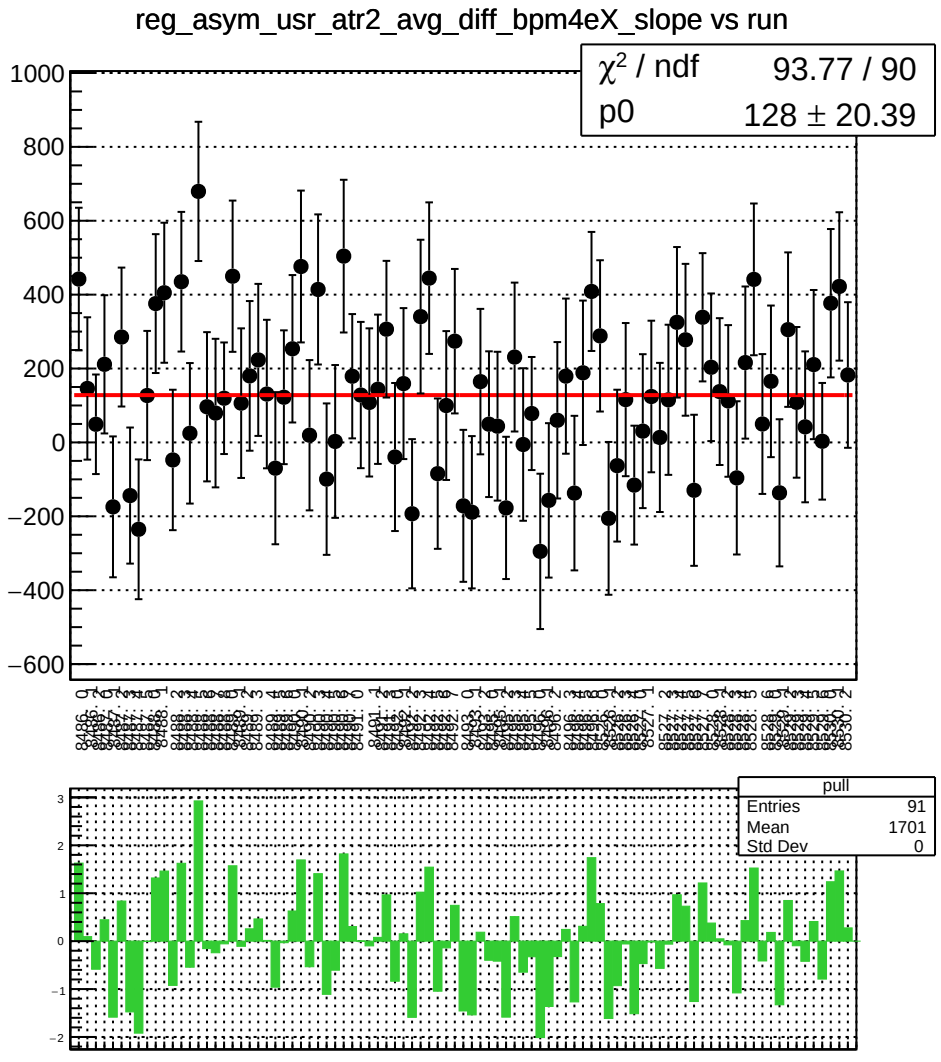

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 86.14 / 90
p0 14.98 ± 0.1445
pull
Entries 91
Mean 3357
Std Dev 0

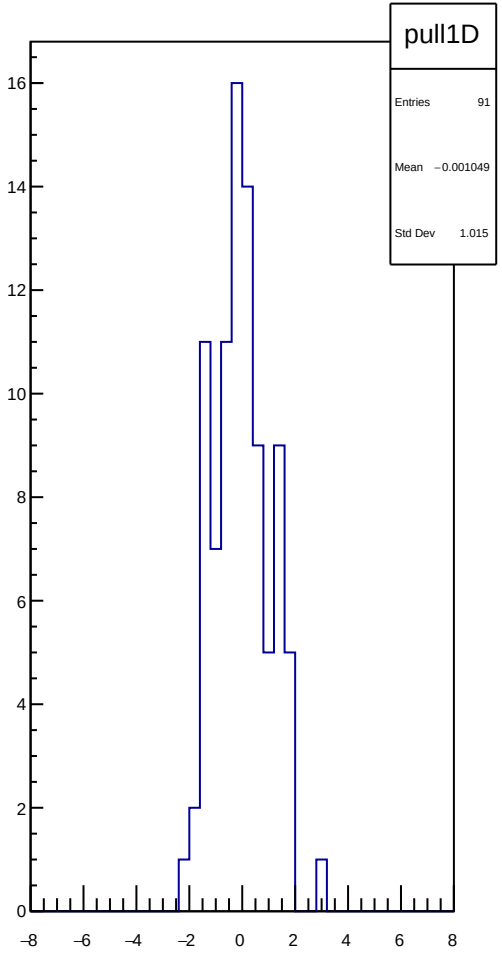

pull1D
Entries 91
Mean 0.001061
Std Dev 0.9729

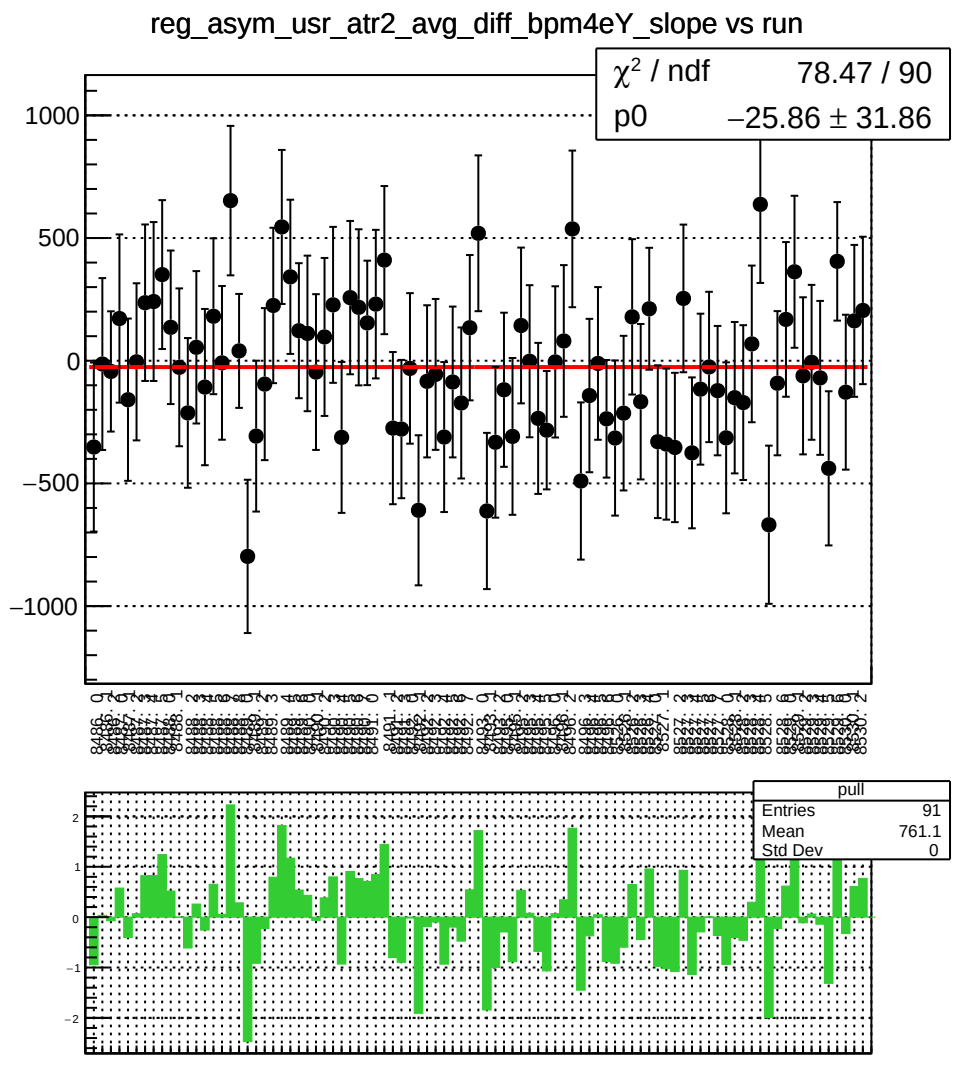

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 90.43 / 90
p0 −84.83 ± 18.75
pull
Entries 91
Mean 218
Std Dev 0
pull1D
Entries 91
Mean 0.004232
Std Dev 0.9968

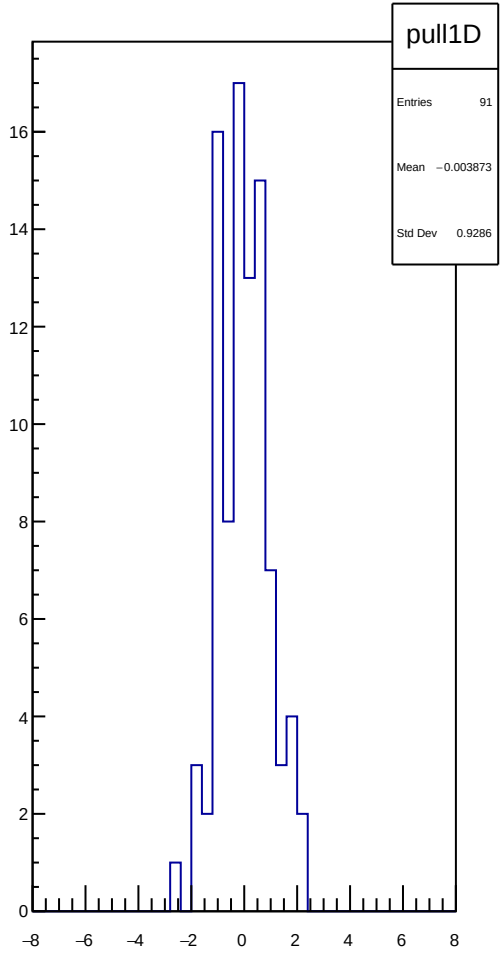

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 80.84 / 90
p0 18.02 ± 30.08
1000
500
0
−500
−1000
pull
Entries 91
Mean 649.8
Std Dev 0
2
1
0
−1
−2

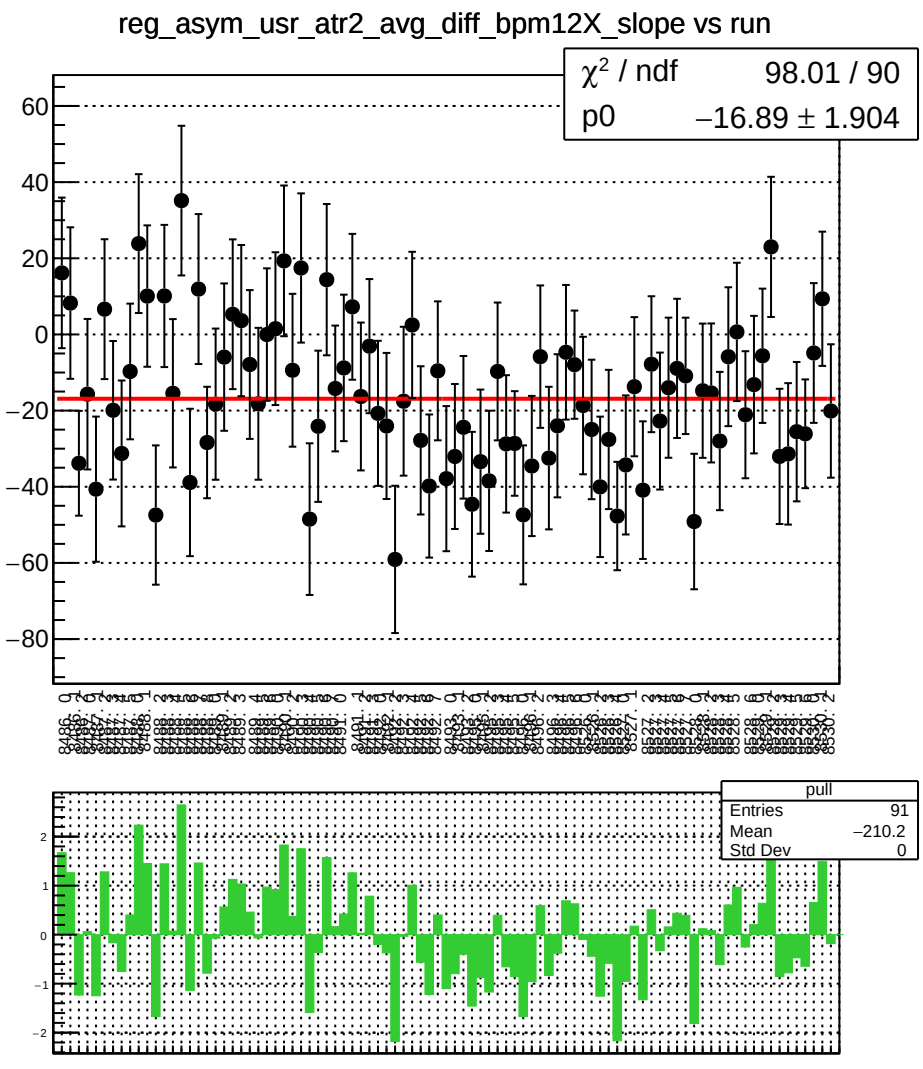

pull1D
Entries 91
Mean 0.003916
Std Dev 0.9425
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

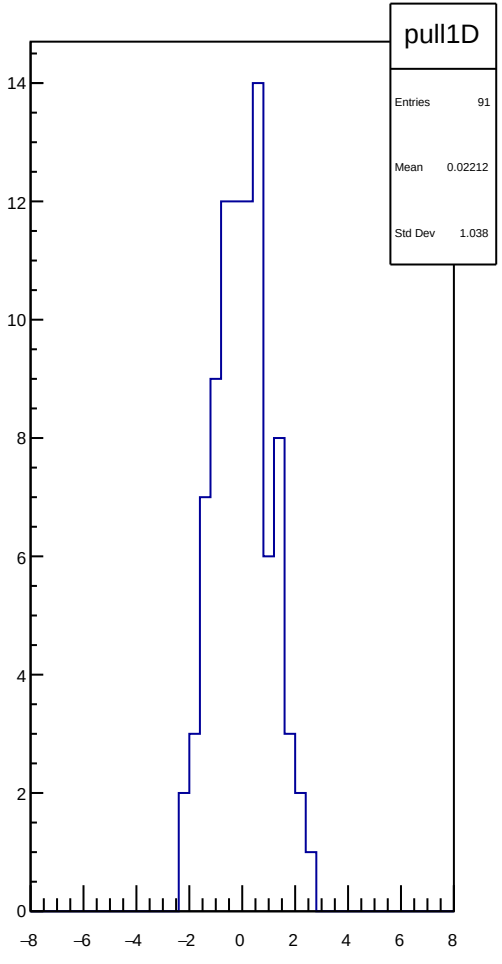

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 93.77 / 90
p0 128 ± 20.39
pull
Entries 91
Mean 1701
Std Dev 0

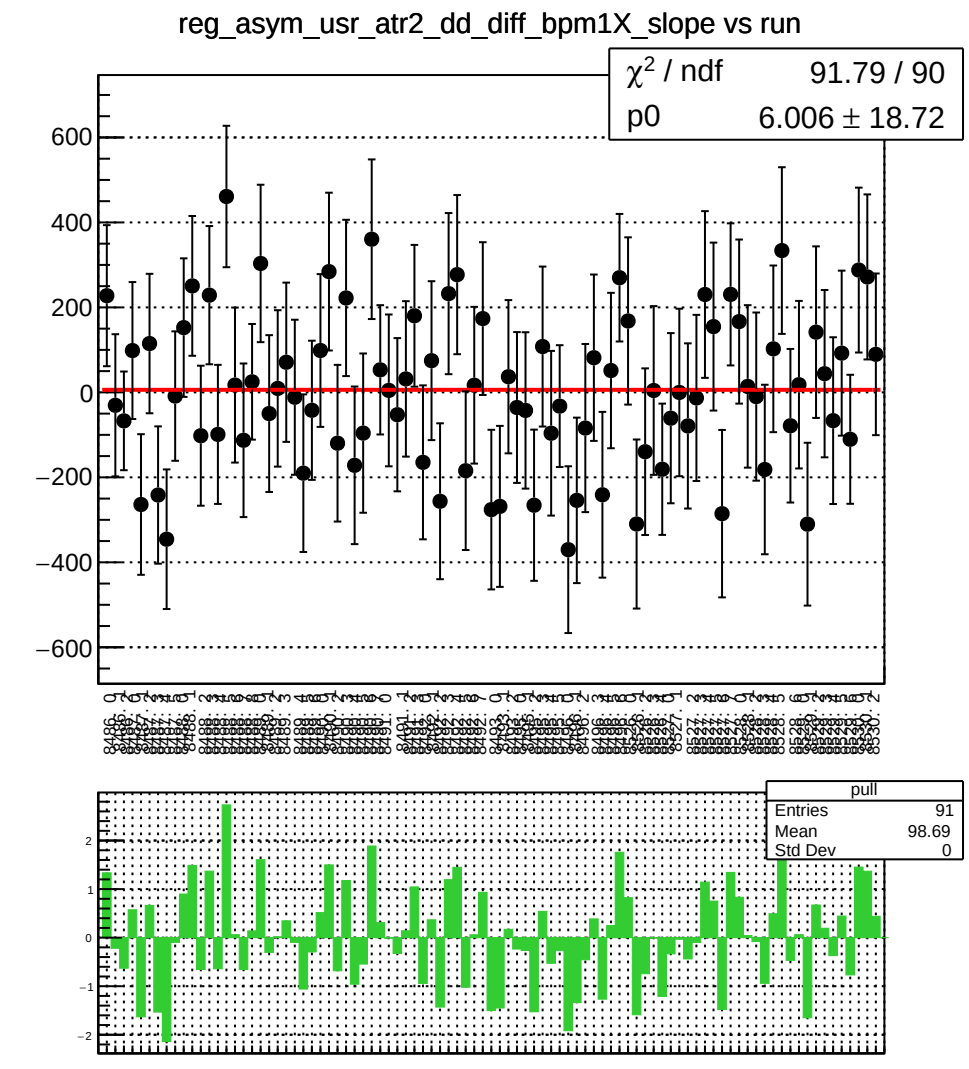

pull1D
Entries 91
Mean −0.001049
Std Dev 1.015

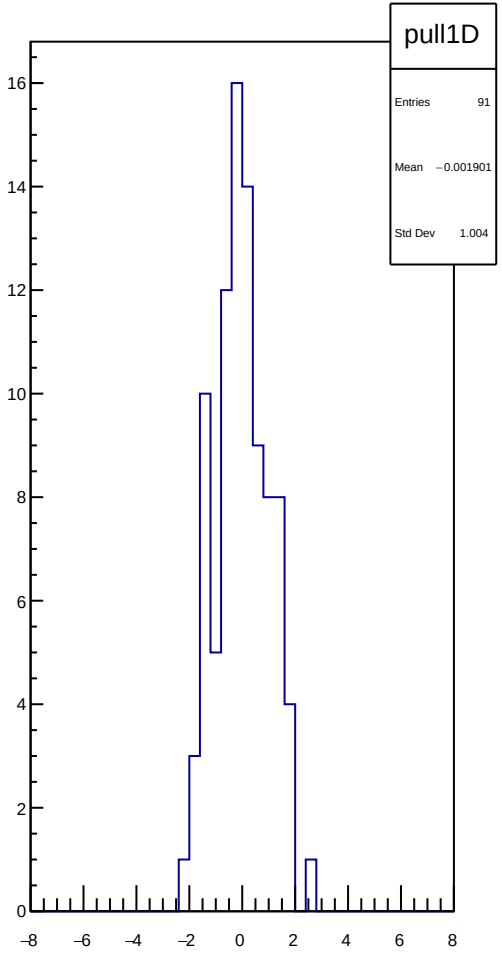

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 78.47 / 90
p0 −25.86 ± 31.86
1000
500
0
−500
−1000
pull
Entries 91
Mean 761.1
Std Dev 0
2
1
0
−1
−2

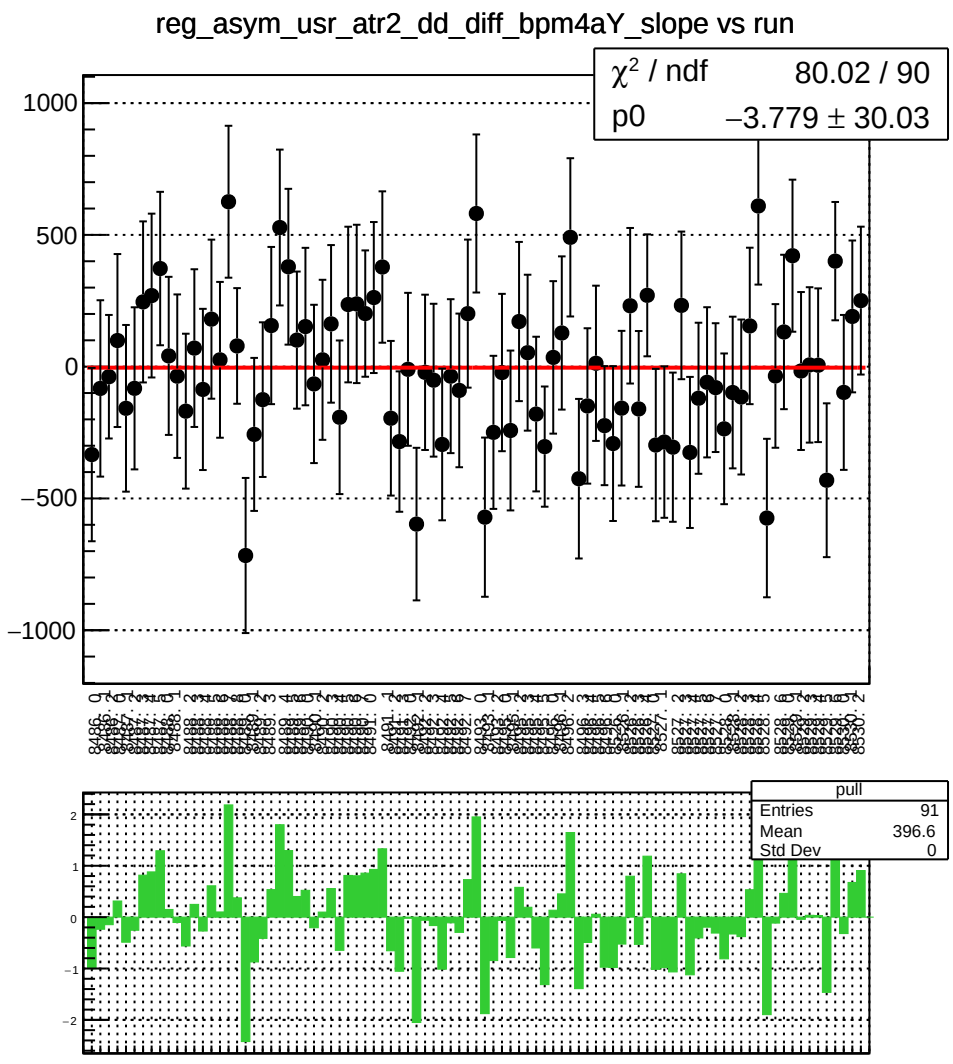

pull1D
Entries 91
Mean −0.003873
Std Dev 0.9286
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

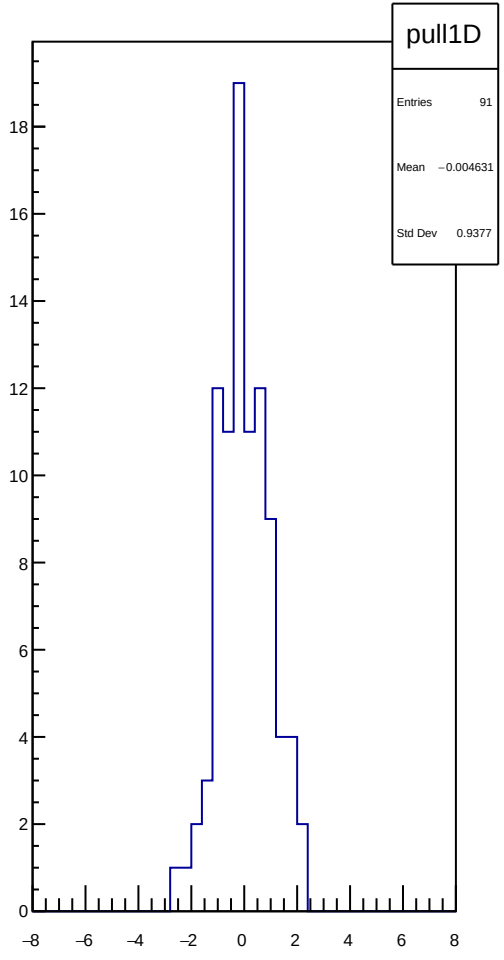

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 98.01 / 90
p0 −16.89 ± 1.904
pull
Entries 91
Mean −210.2
Std Dev 0

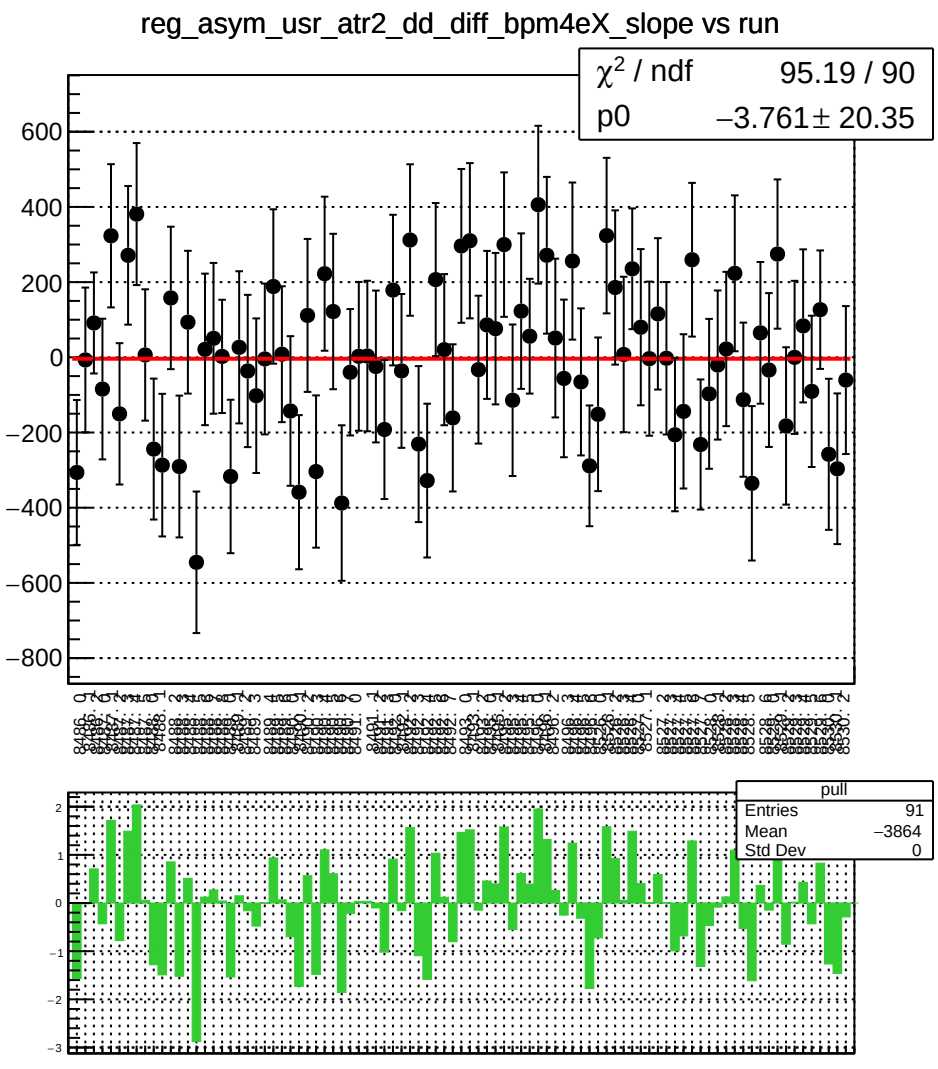

pull1D
Entries 91
Mean 0.02212
Std Dev 1.038

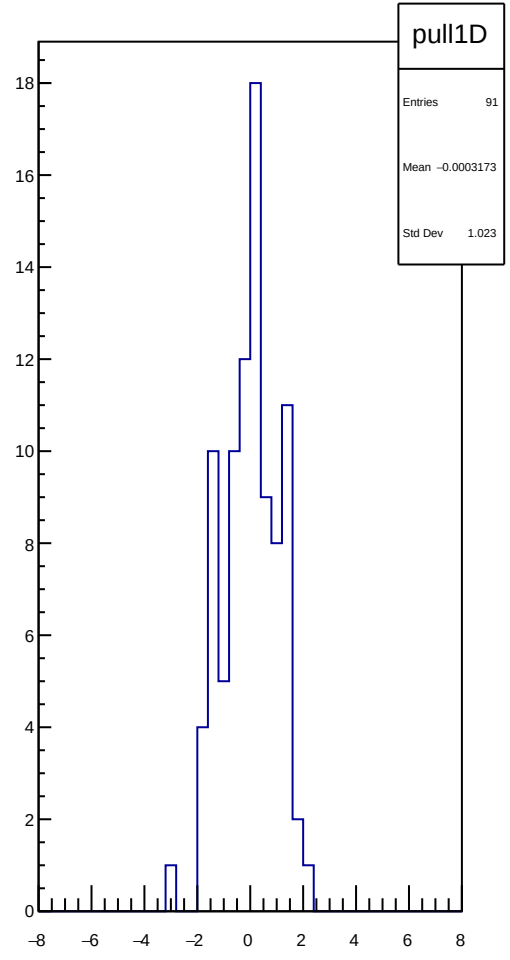

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 91.79 / 90
p0 6.006 ± 18.72
600
400
200
0
−200
−400
−600
pull
Entries 91
Mean 98.69
Std Dev 0
2
1
0
−1
−2

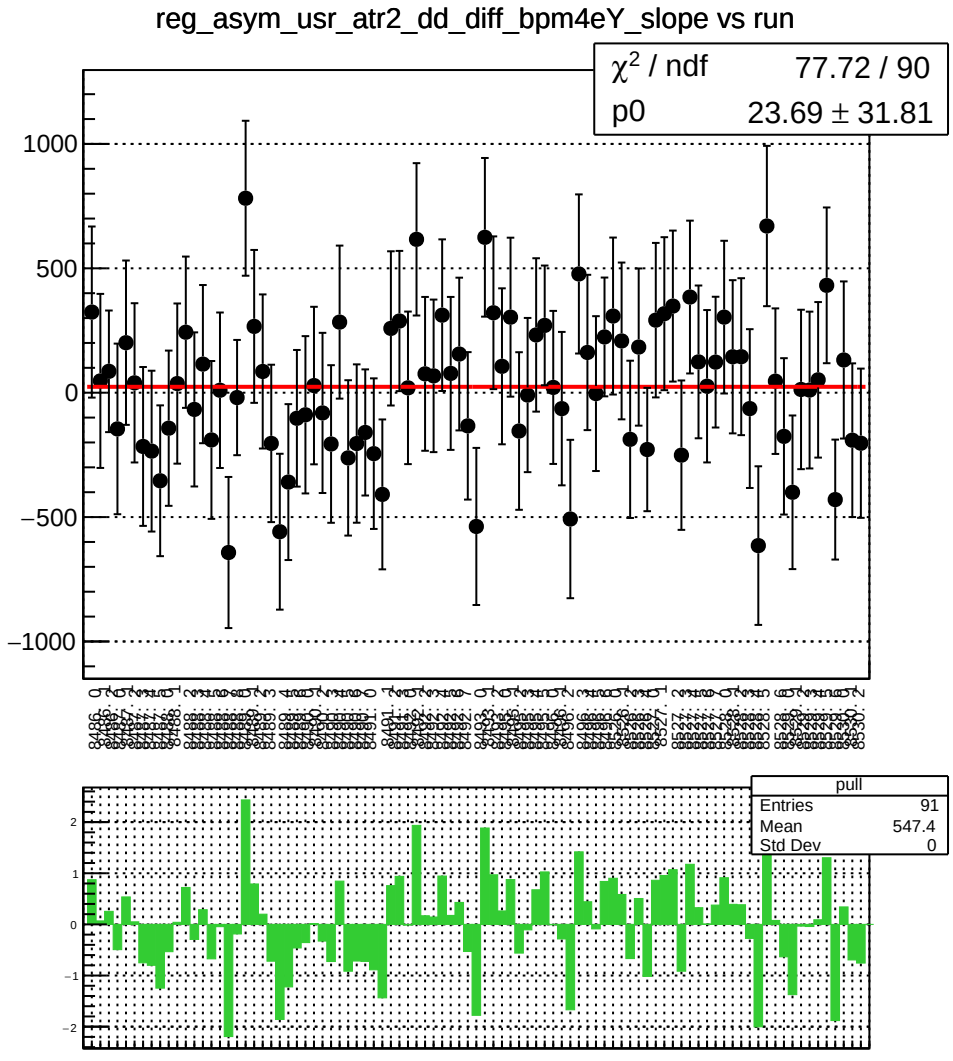

pull1D
Entries 91
Mean −0.001901
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

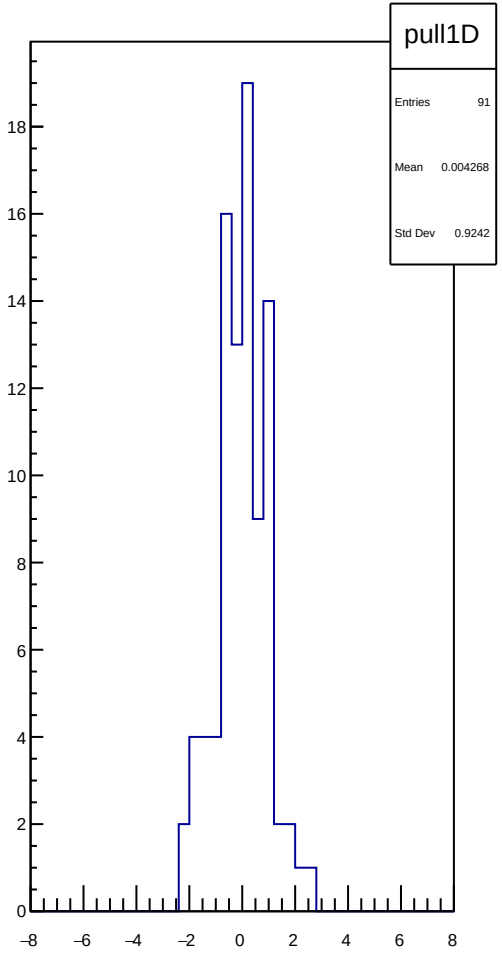

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 80.02 / 90
p0 −3.779 ± 30.03
1000
500
0
−500
−1000
pull
Entries 91
Mean 396.6
Std Dev 0
2
1
0
−1
−2

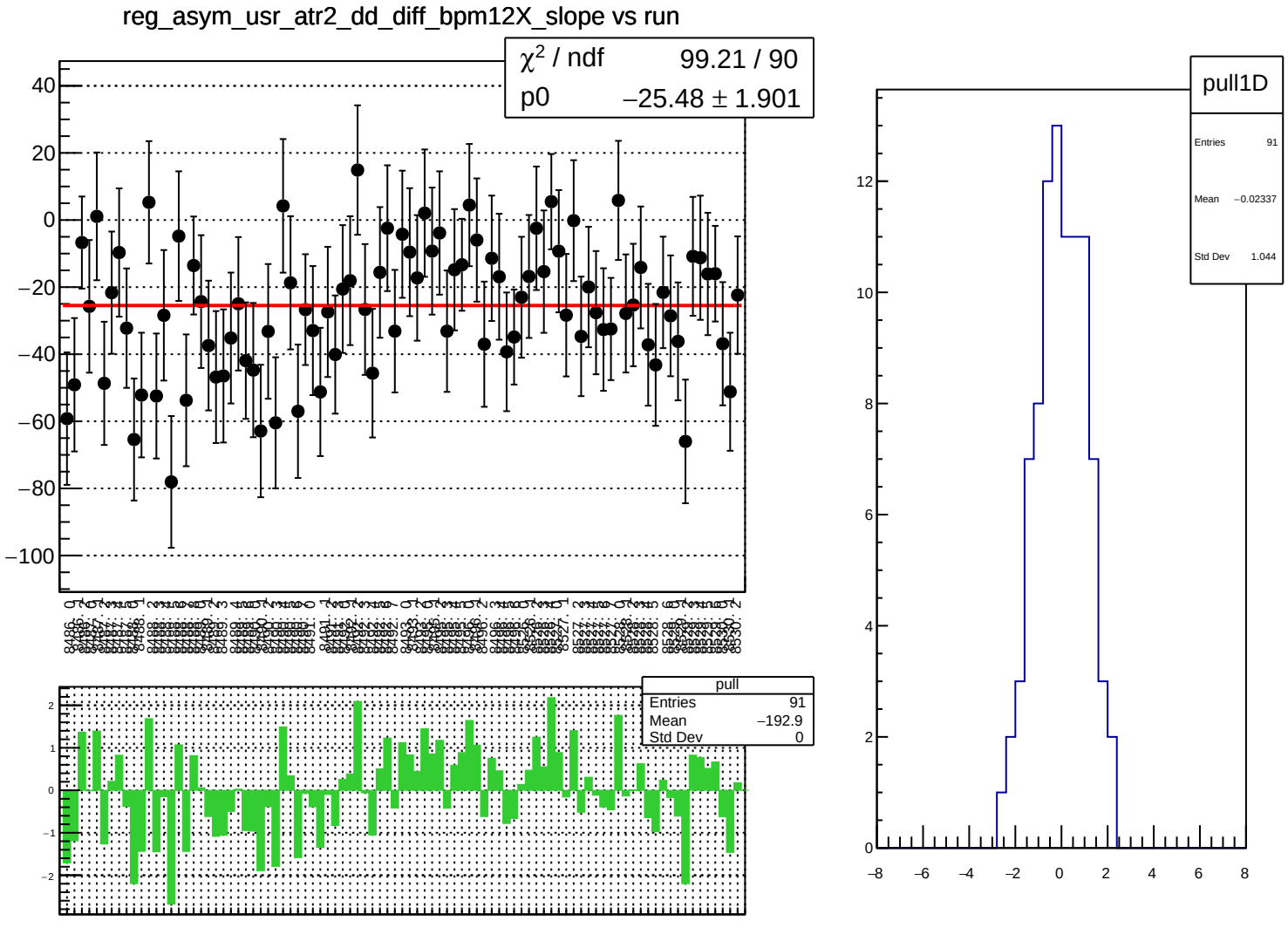

pull1D
Entries 91
Mean −0.004631
Std Dev 0.9377
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

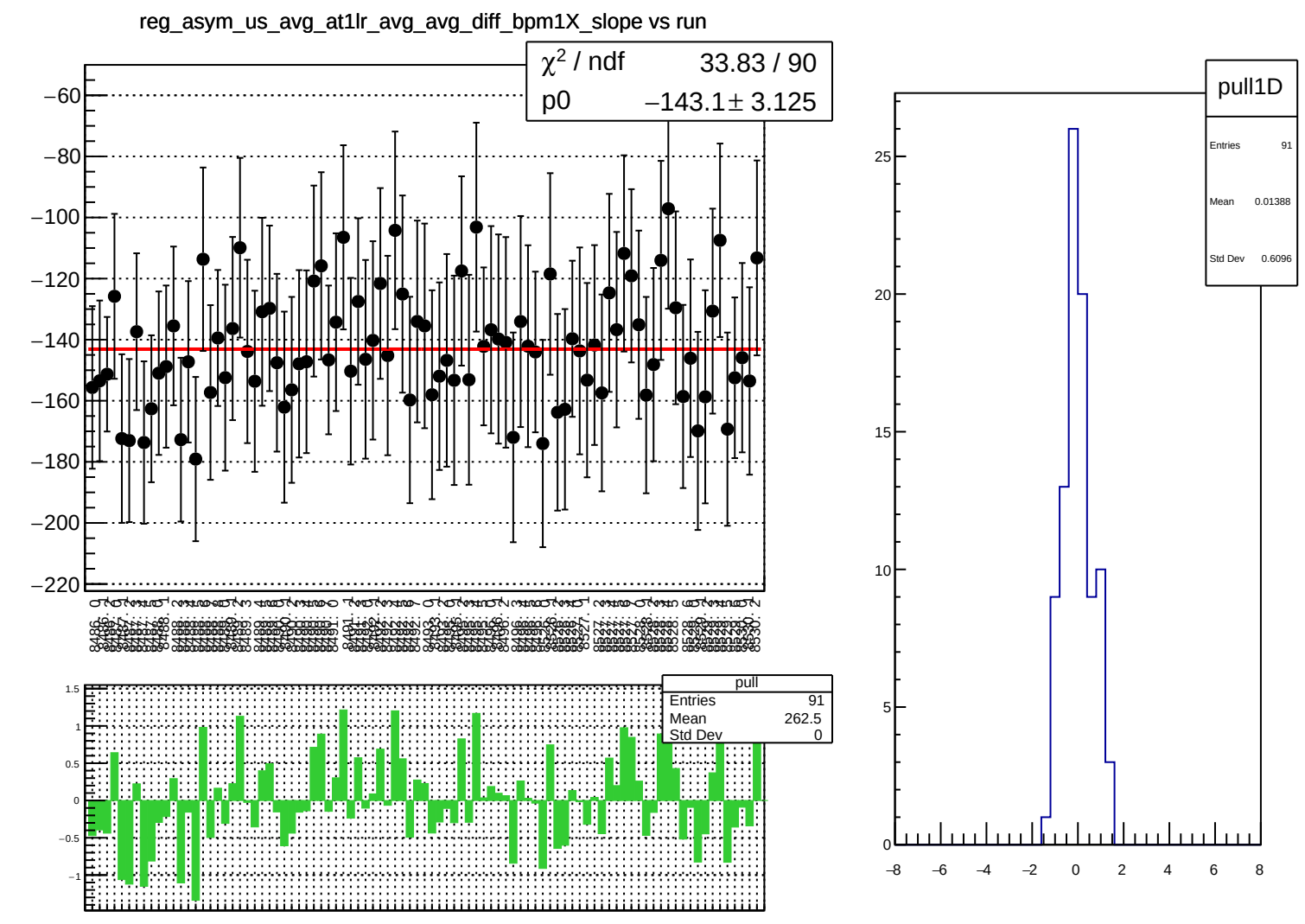

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 95.19 / 90
p0 −3.761 ± 20.35
pull
Entries 91
Mean −3864
Std Dev 0

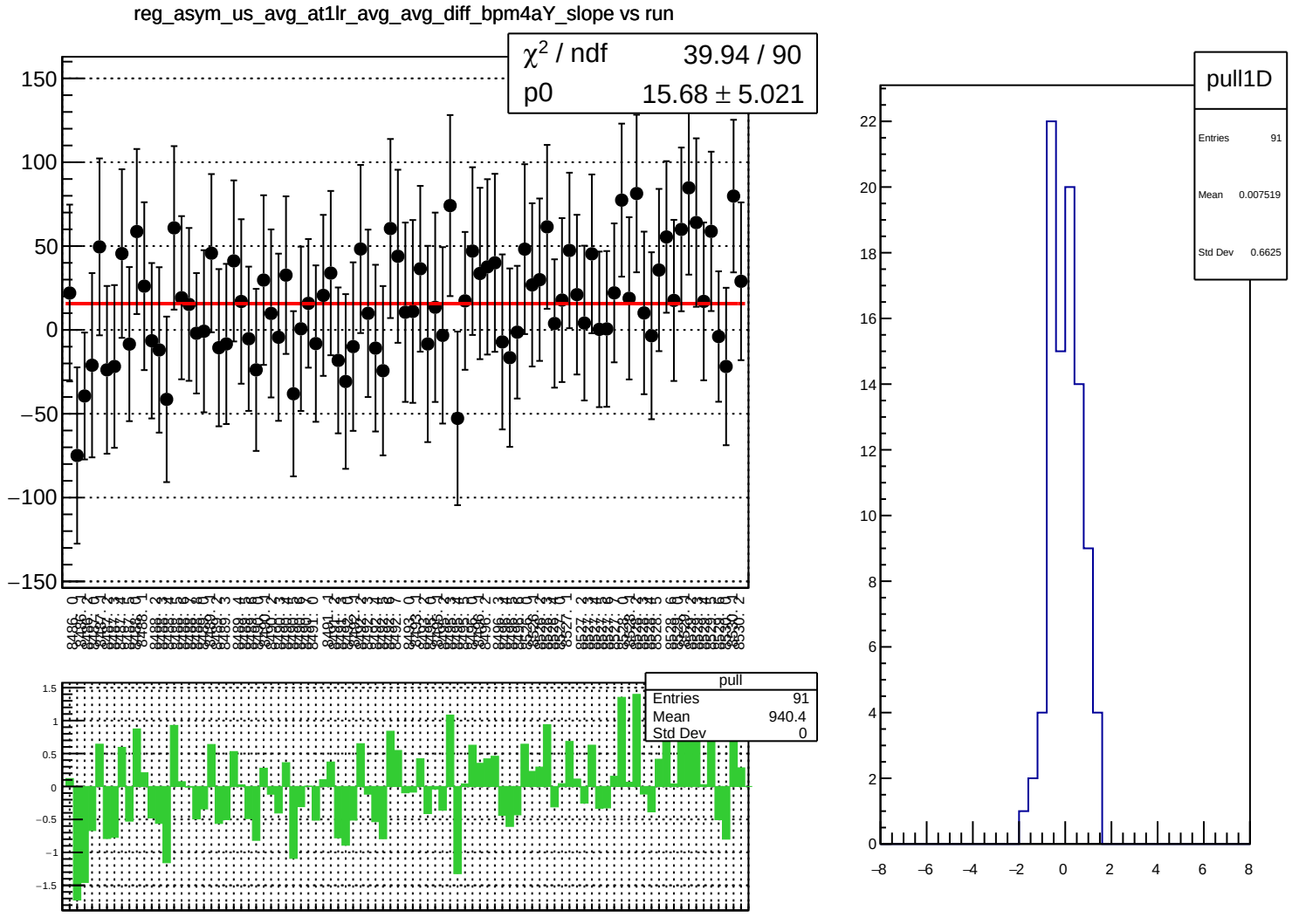

pull1D
Entries 91
Mean −0.0003173
Std Dev 1.023

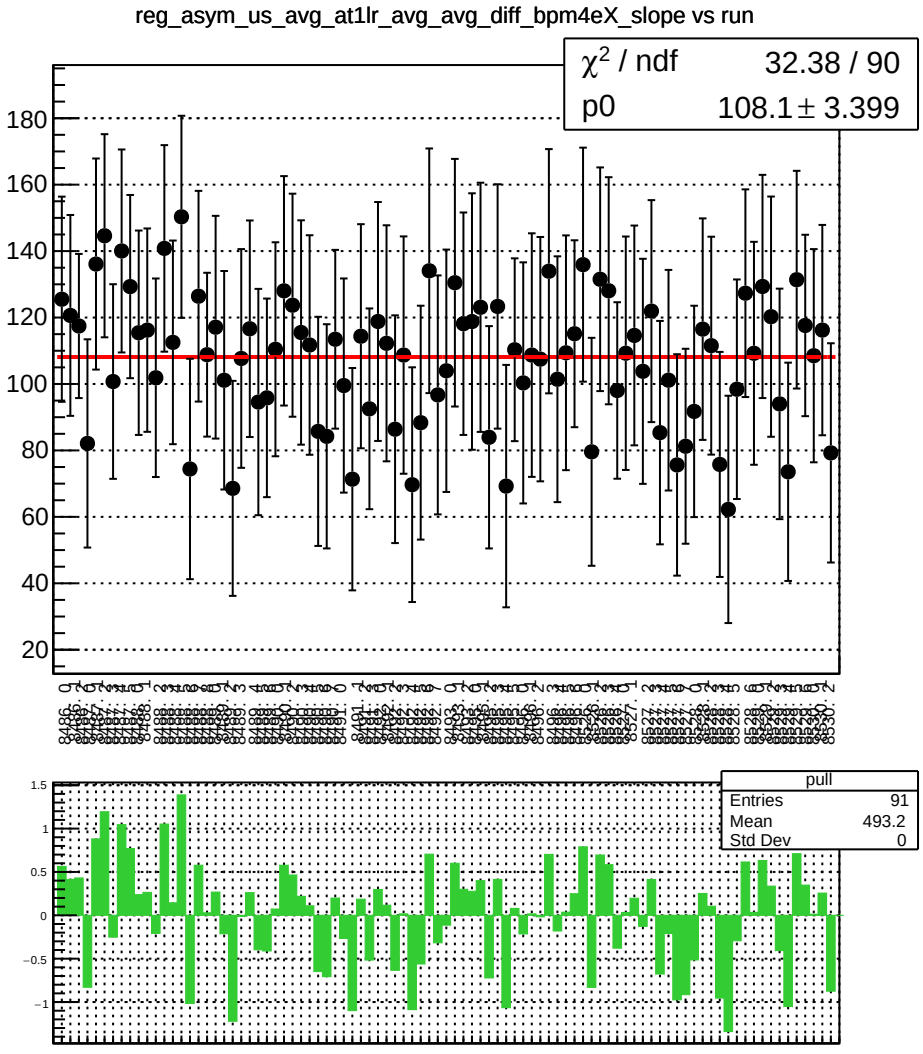

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 77.72 / 90
p0 23.69 ± 31.81
1000
500
0
−500
−1000
pull
Entries 91
Mean 547.4
Std Dev 0
2
1
0
−1
−2

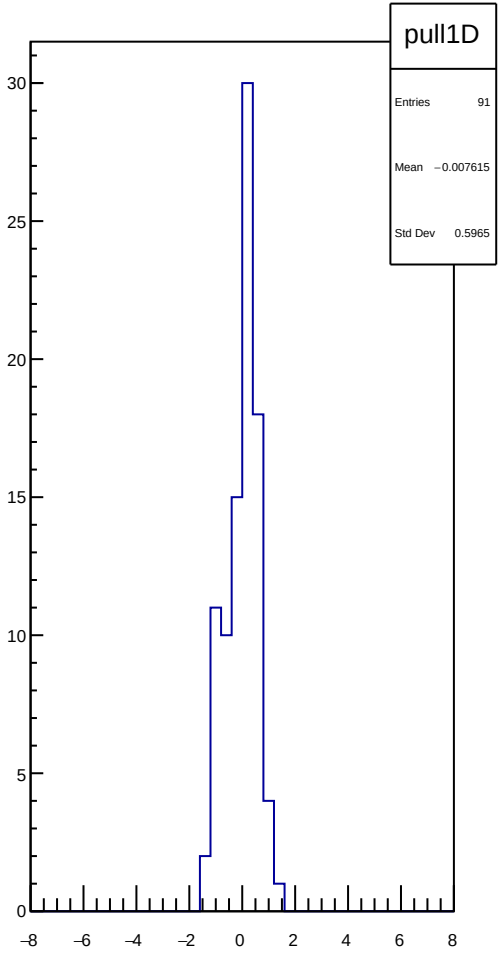

pull1D
Entries 91
Mean 0.004268
Std Dev 0.9242
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

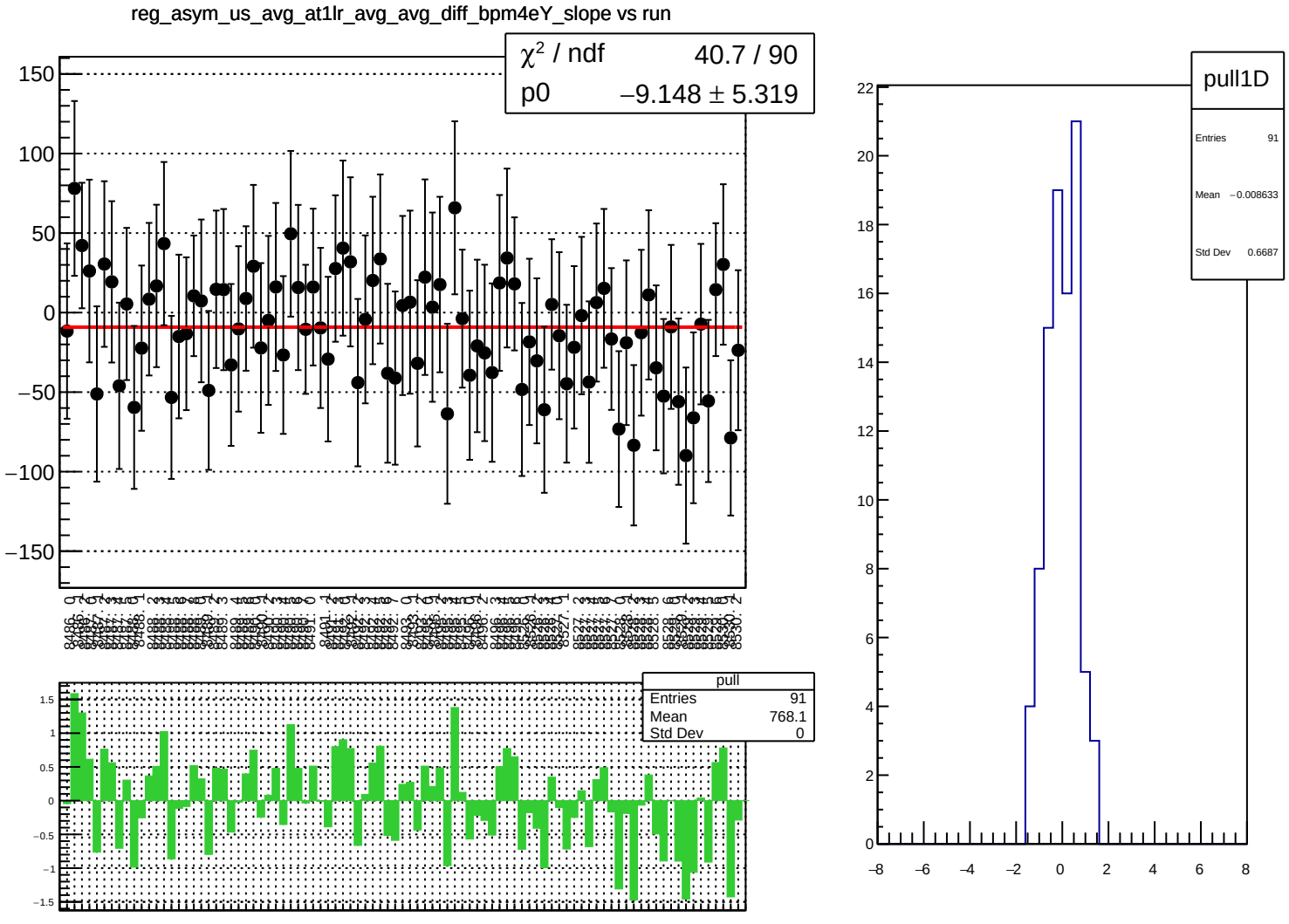

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 99.21 / 90
p0 −25.48 ± 1.901
pull
Entries 91
Mean −192.9
Std Dev 0
pull1D
Entries 91
Mean −0.02337
Std Dev 1.044

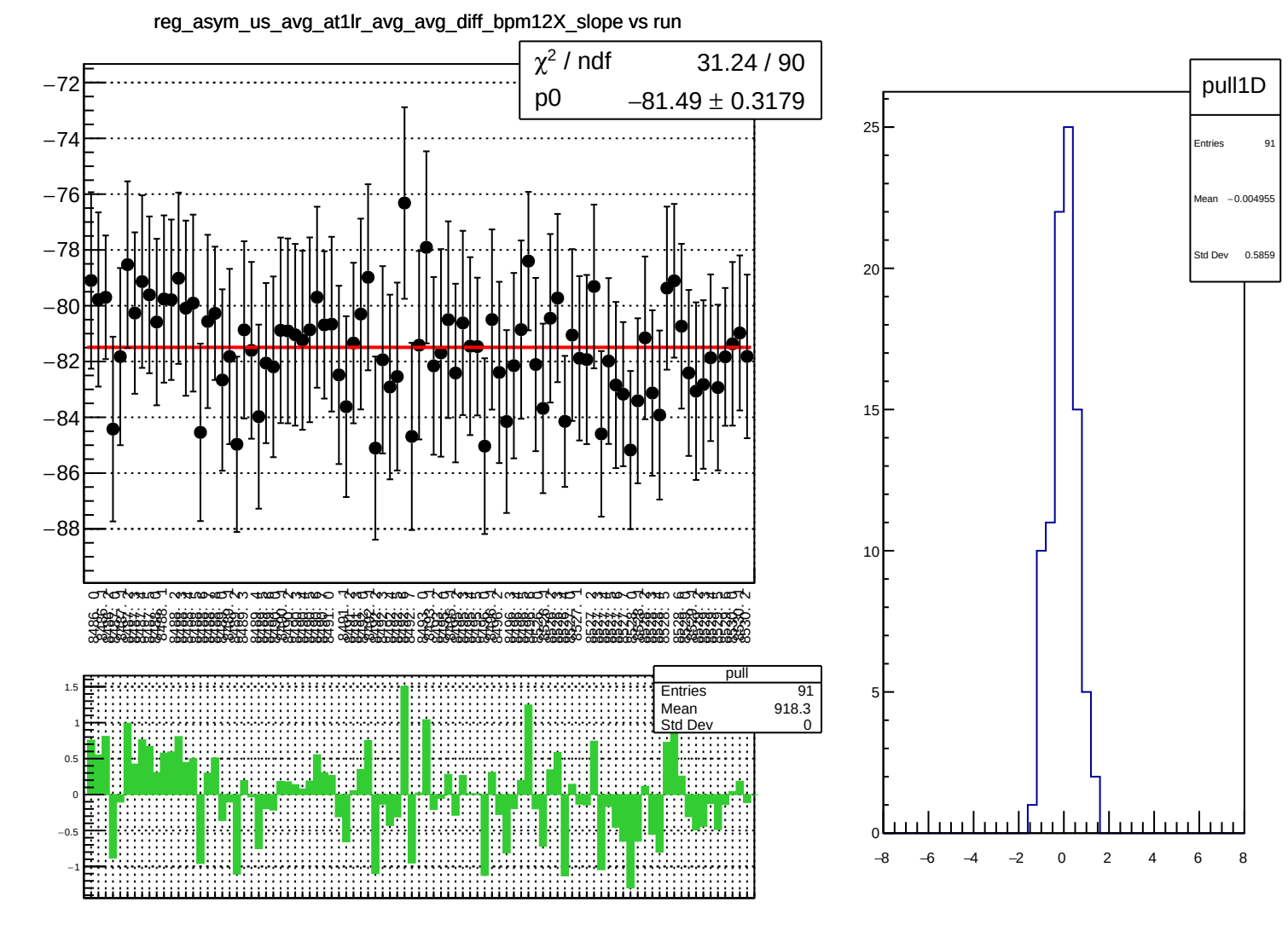

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 33.83 / 90
p0 −143.1 ± 3.125
pull
Entries 91
Mean 262.5
Std Dev 0
pull1D
Entries 91
Mean 0.01388
Std Dev 0.6096

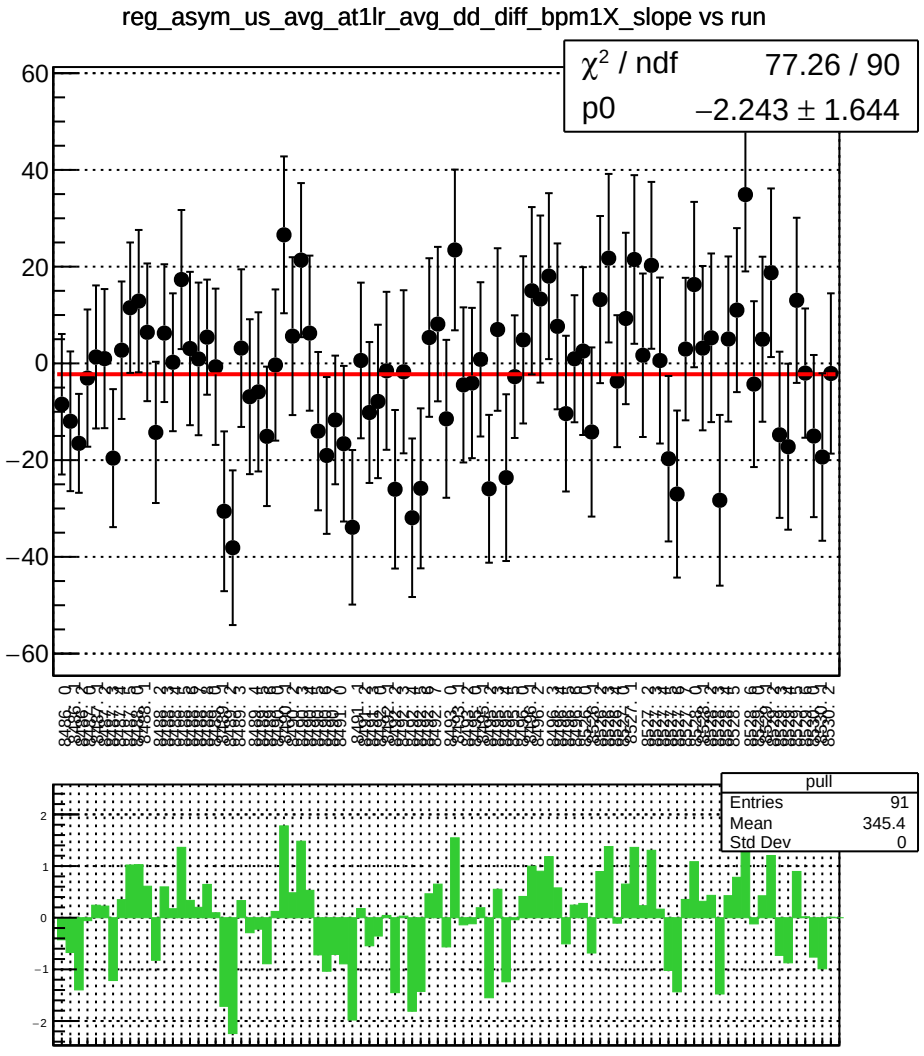

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 39.94 / 90
p0 15.68 ± 5.021
pull
Entries 91
Mean 940.4
Std Dev 0
pull1D
Entries 91
Mean 0.007519
Std Dev 0.6625

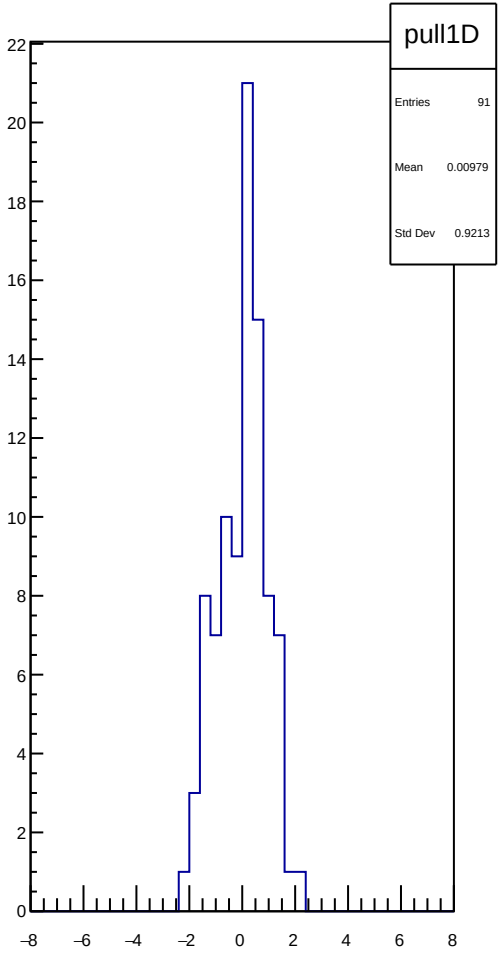

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 32.38 / 90
p0 108.1 ± 3.399
pull
Entries 91
Mean 493.2
Std Dev 0

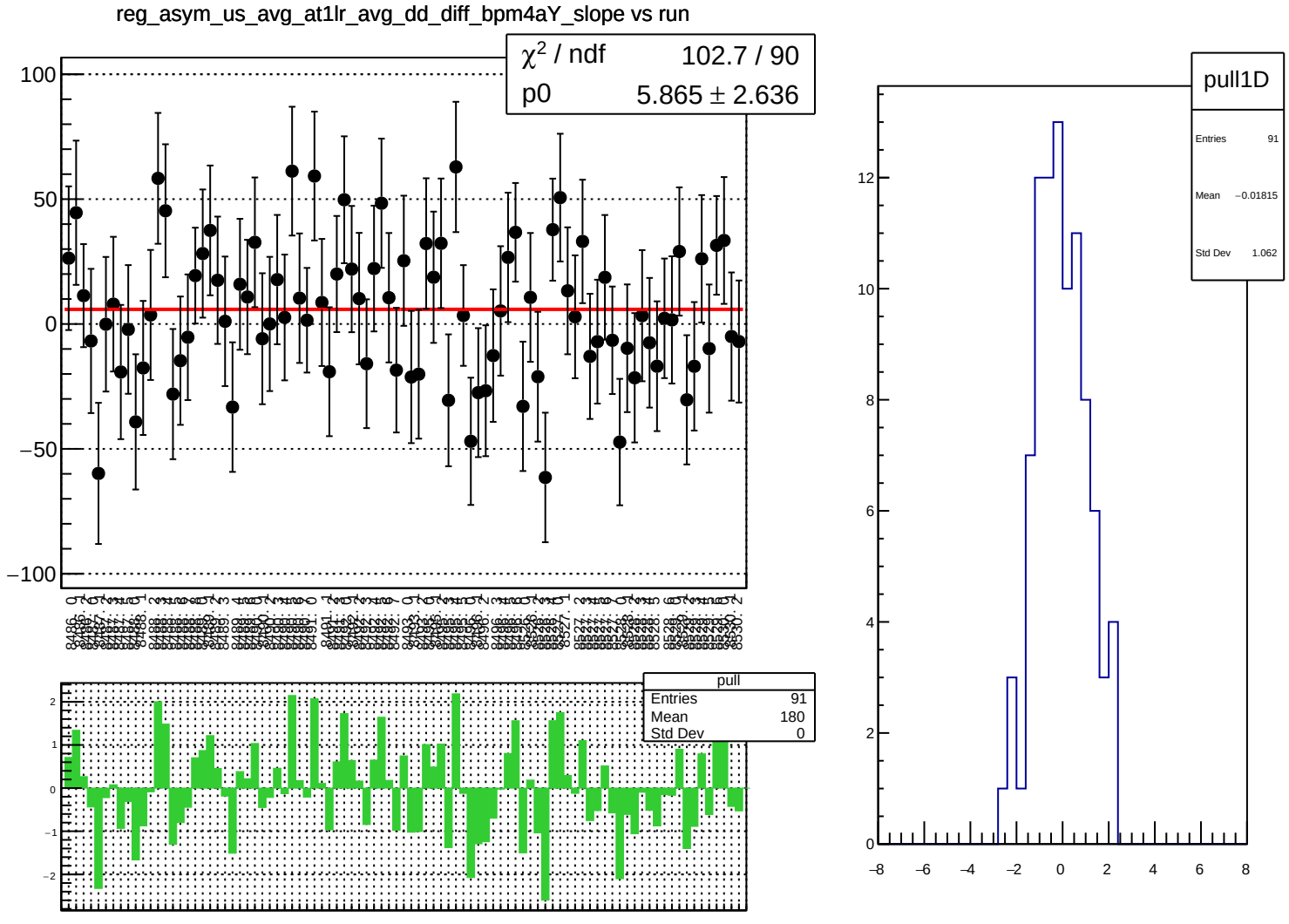

pull1D
Entries 91
Mean −0.007615
Std Dev 0.5965

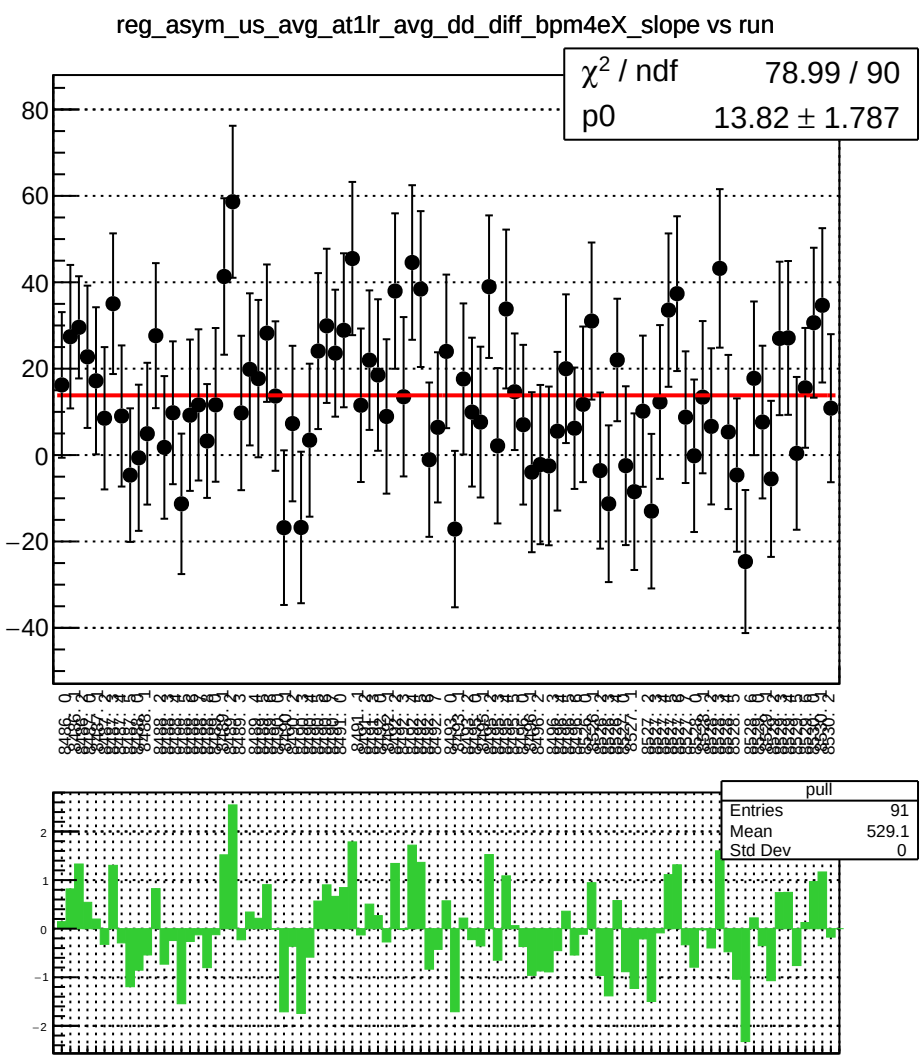

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 40.7 / 90
p0 −9.148 ± 5.319
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean 768.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 91
Mean −0.008633
Std Dev 0.6687
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

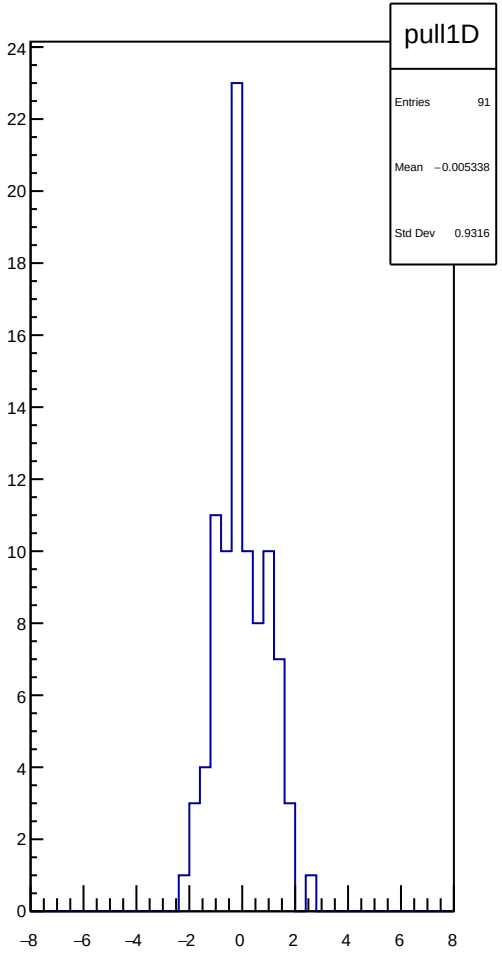

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 31.24 / 90
p0 −81.49 ± 0.3179
pull
Entries 91
Mean 918.3
Std Dev 0
pull1D
Entries 91
Mean −0.004955
Std Dev 0.5859

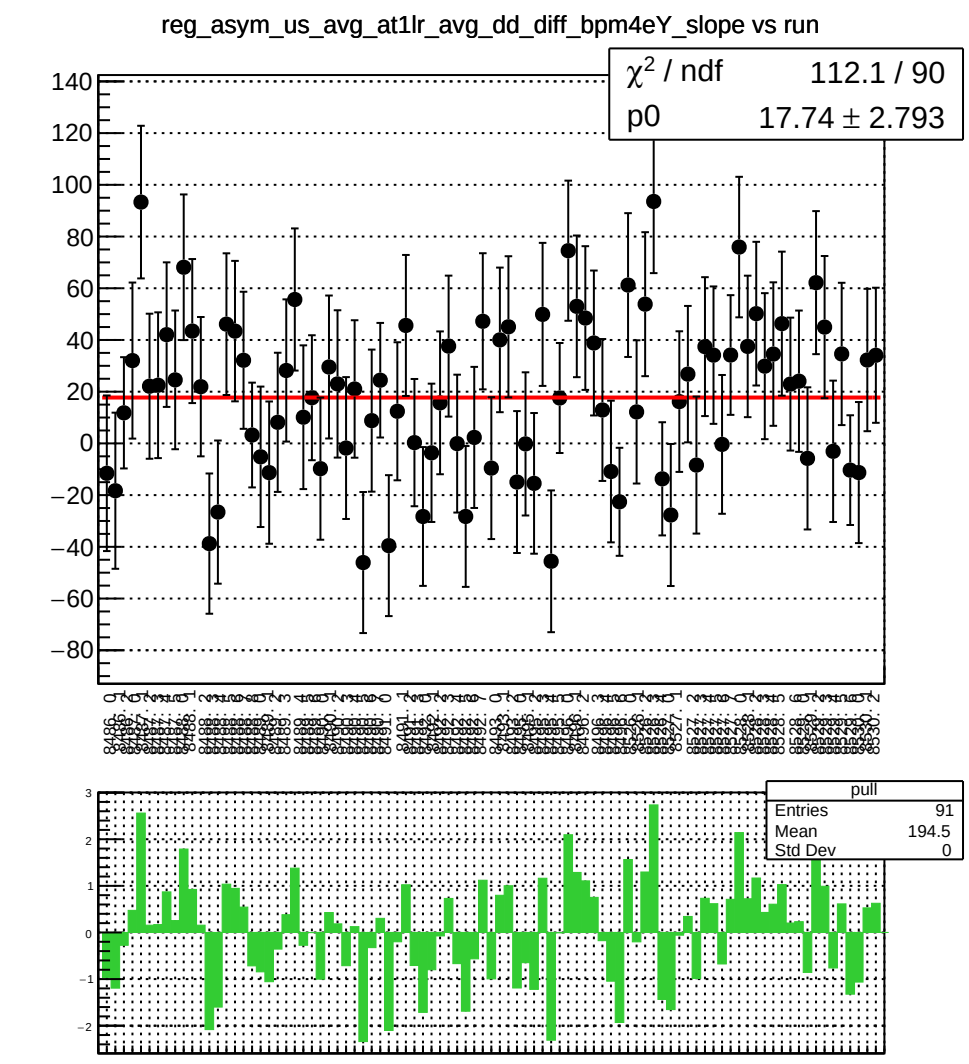

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 77.26 / 90
p0 −2.243 ± 1.644
pull
Entries 91
Mean 345.4
Std Dev 0

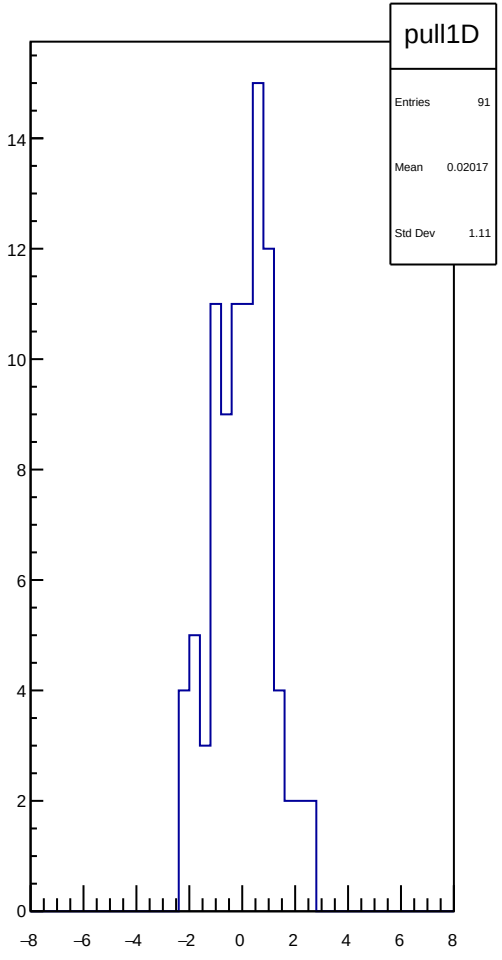

pull1D
Entries 91
Mean 0.00979
Std Dev 0.9213

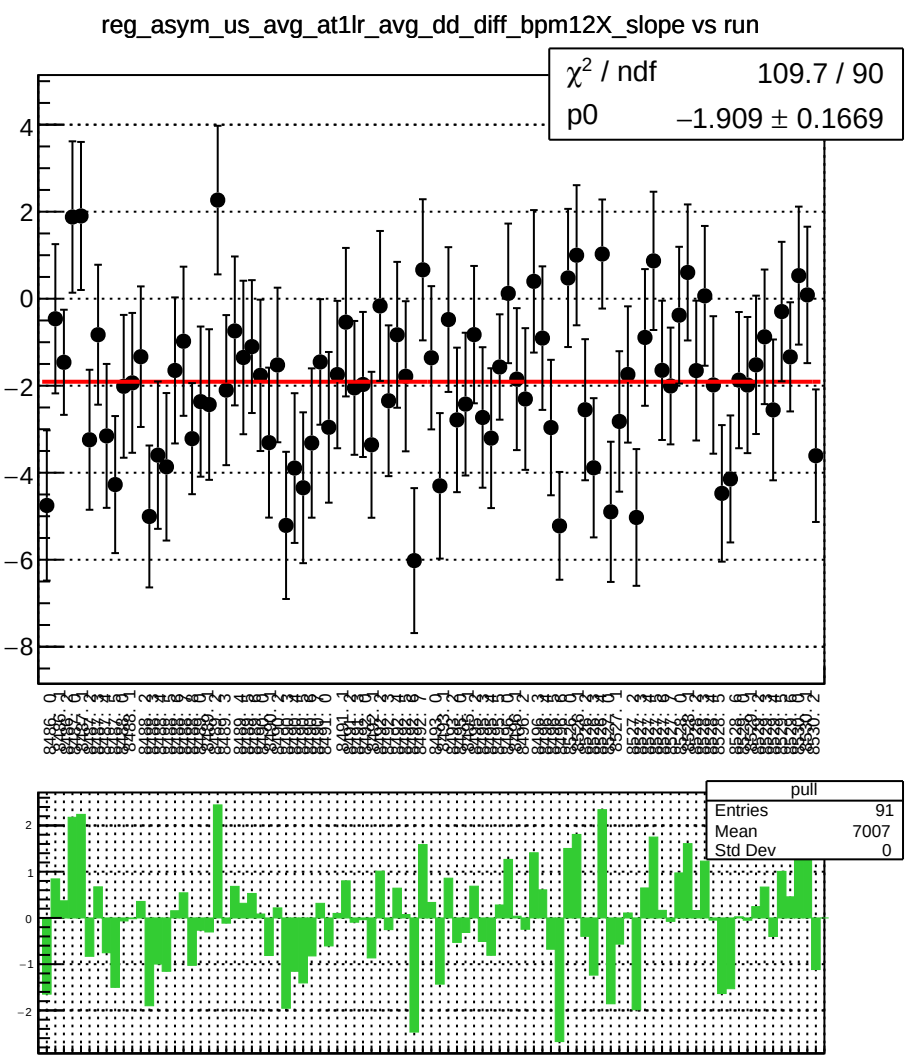

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 102.7 / 90
p0 5.865 ± 2.636
100
50
0
−50
−100
pull
Entries 91
Mean 180
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.01815
Std Dev 1.062
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

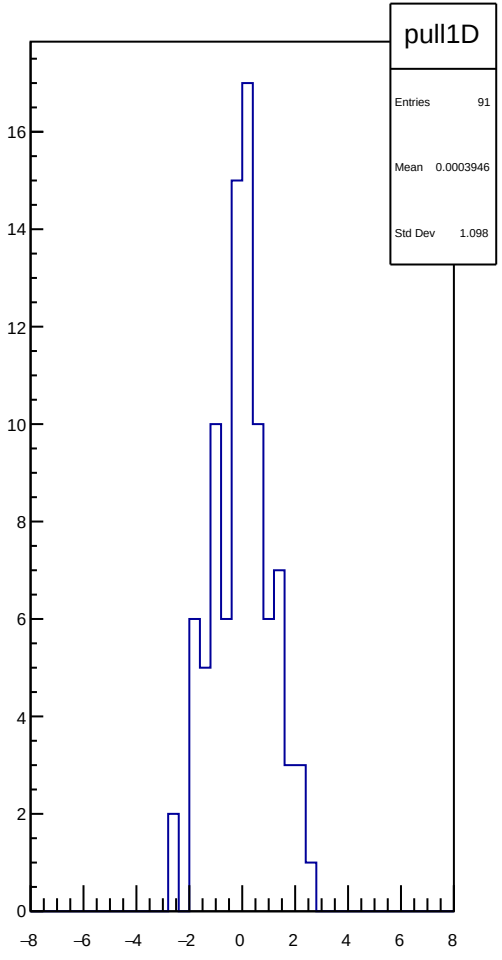

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 78.99 / 90
p0 13.82 ± 1.787
pull
Entries 91
Mean 529.1
Std Dev 0

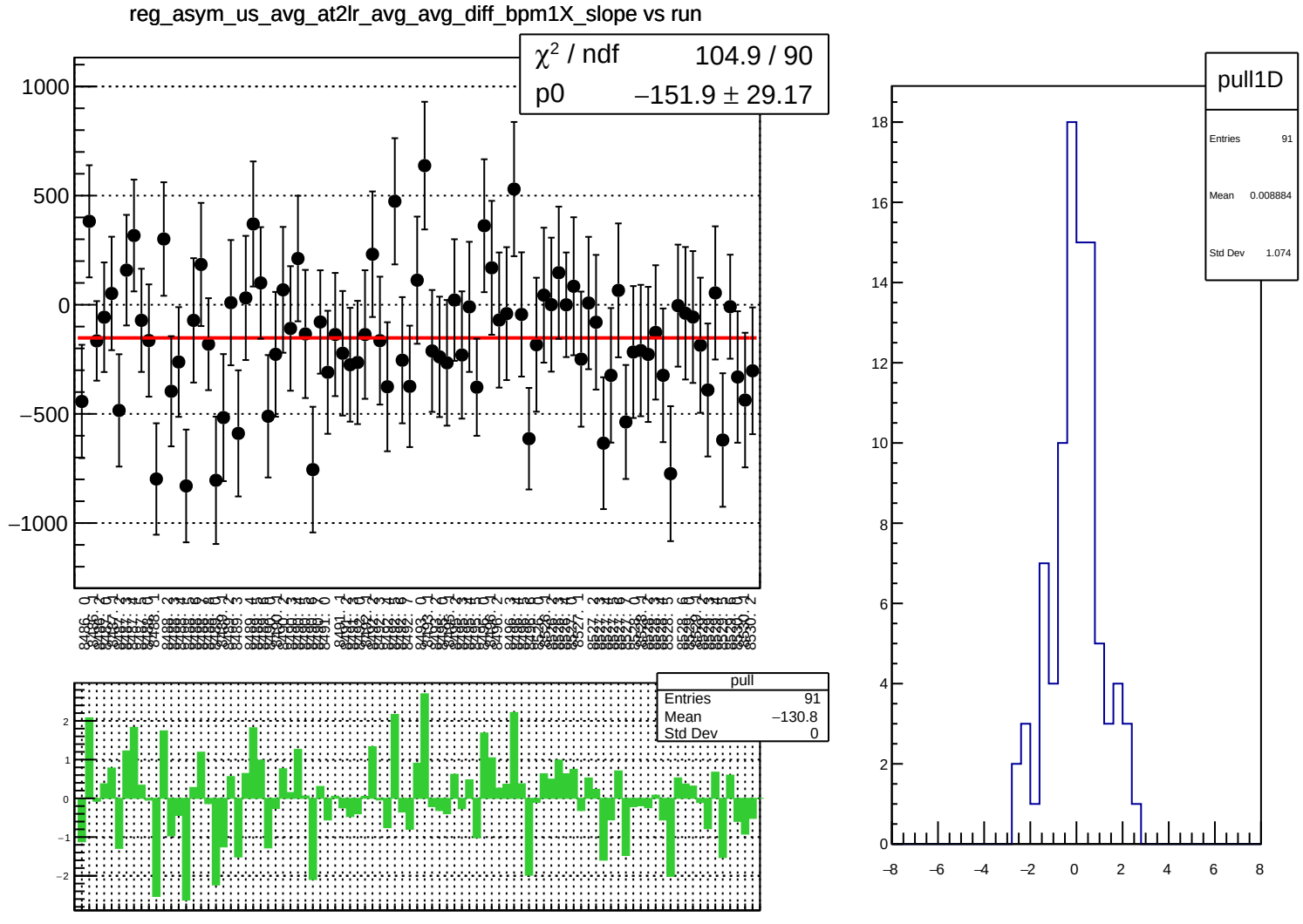

pull1D
Entries 91
Mean −0.005338
Std Dev 0.9316

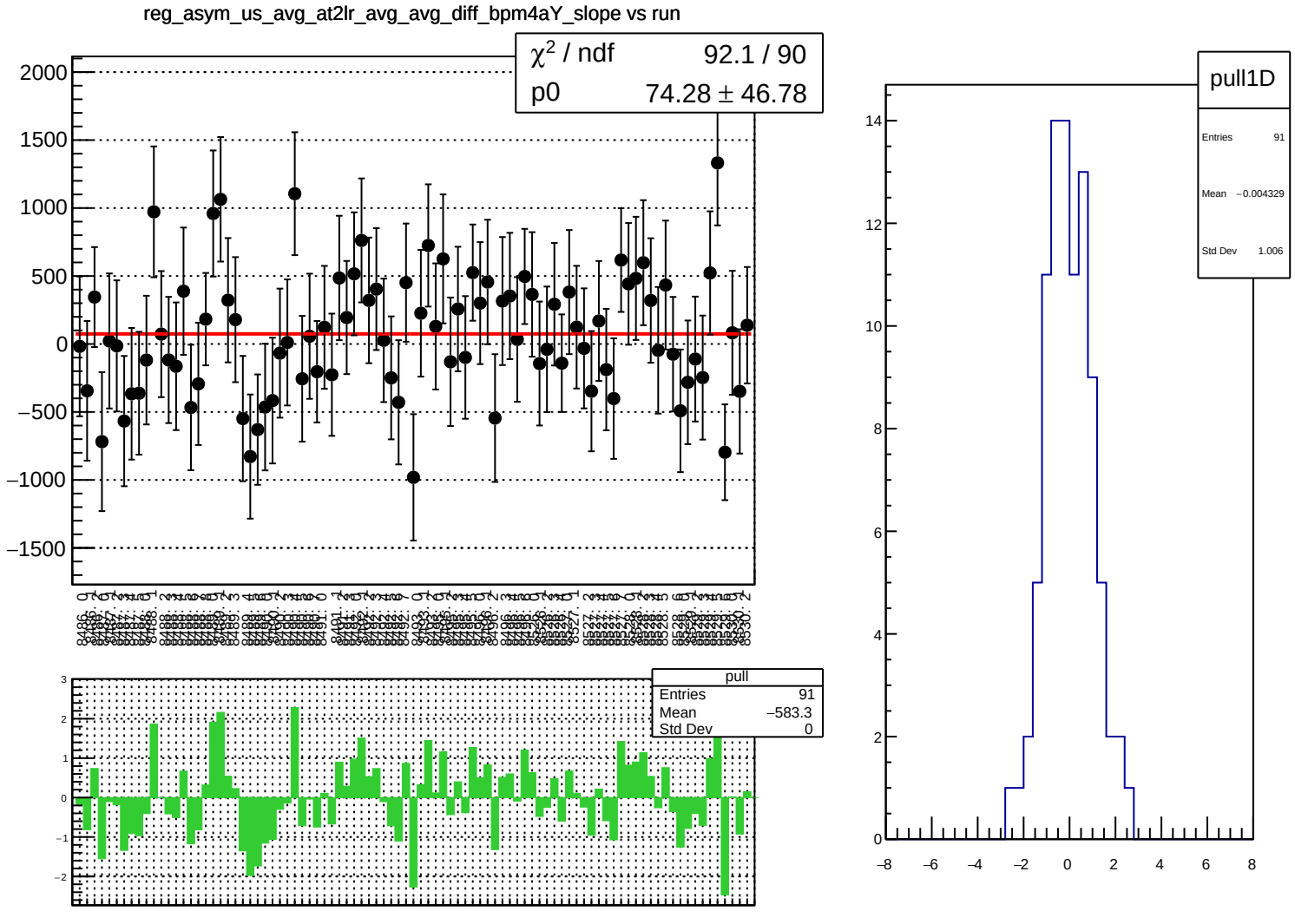

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 112.1 / 90
p0 17.74 ± 2.793
pull
Entries 91
Mean 194.5
Std Dev 0

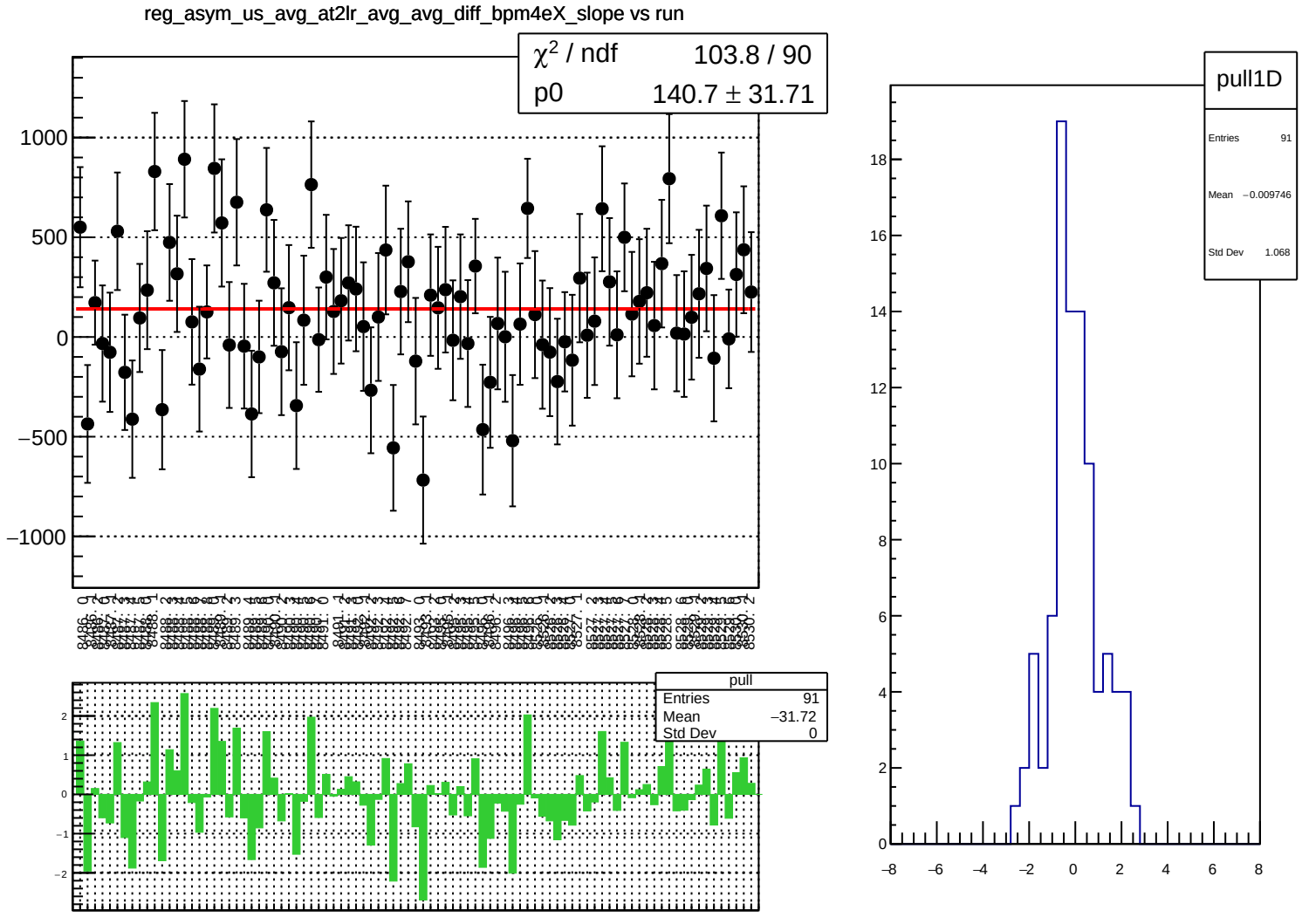

pull1D
Entries 91
Mean 0.02017
Std Dev 1.11

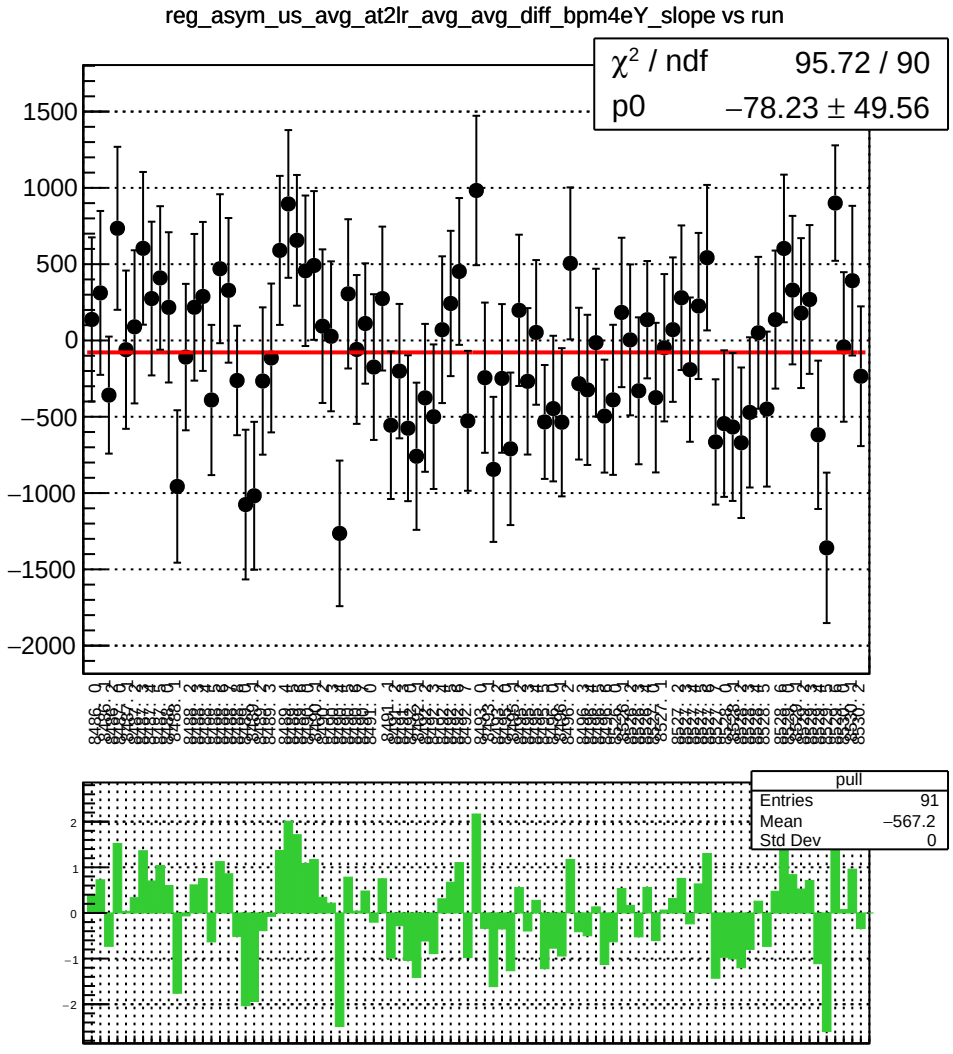

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 109.7 / 90
p0 −1.909 ± 0.1669
pull
Entries 91
Mean 7007
Std Dev 0

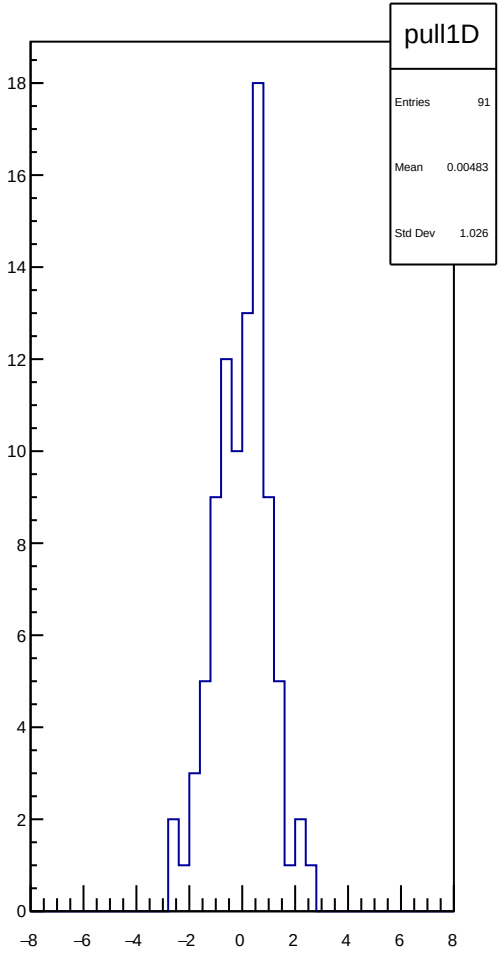

pull1D
Entries 91
Mean 0.0003946
Std Dev 1.098

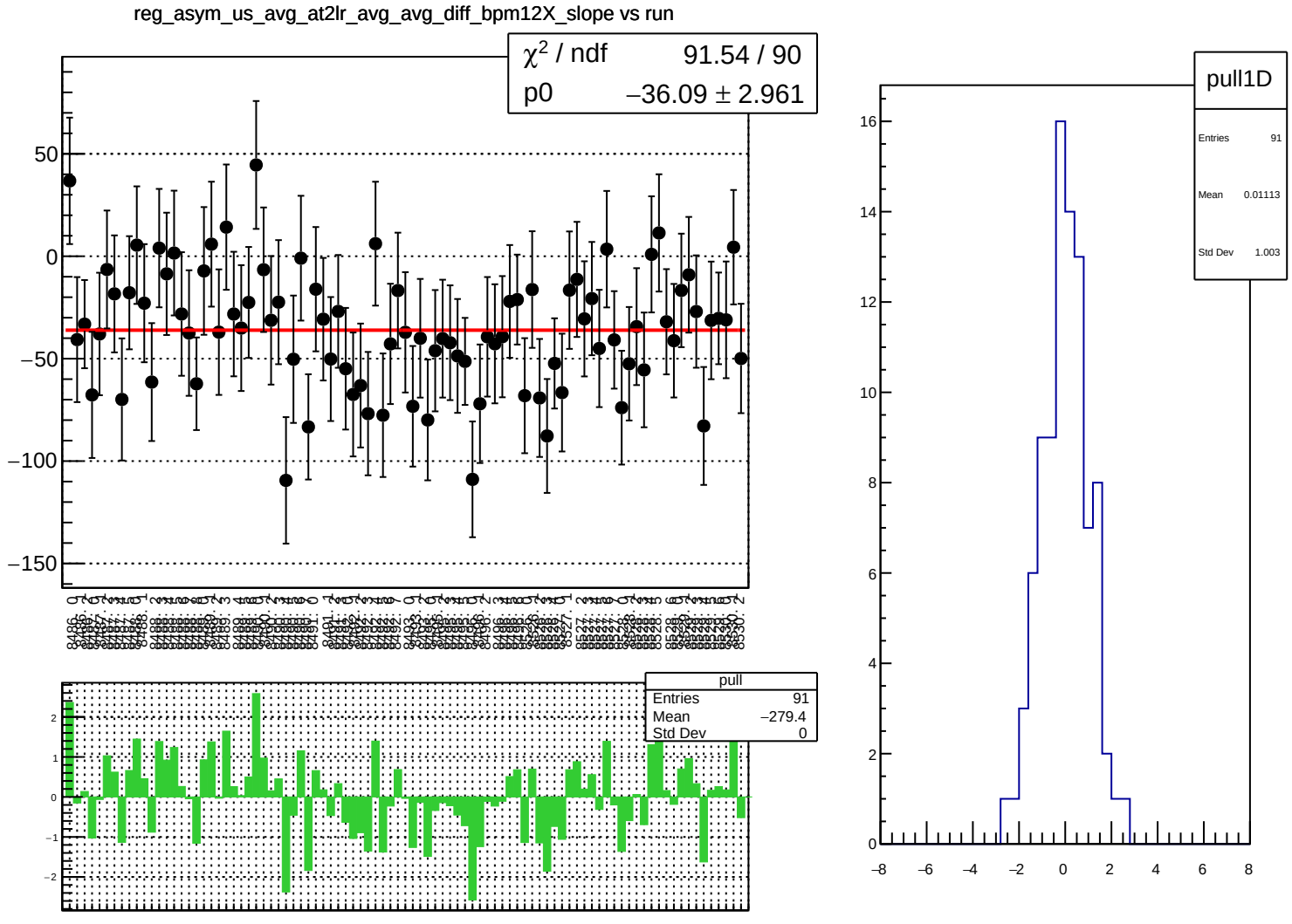

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 104.9 / 90
p0 −151.9 ± 29.17
1000
500
0
−500
−1000
pull
Entries 91
Mean −130.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.008884
Std Dev 1.074
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

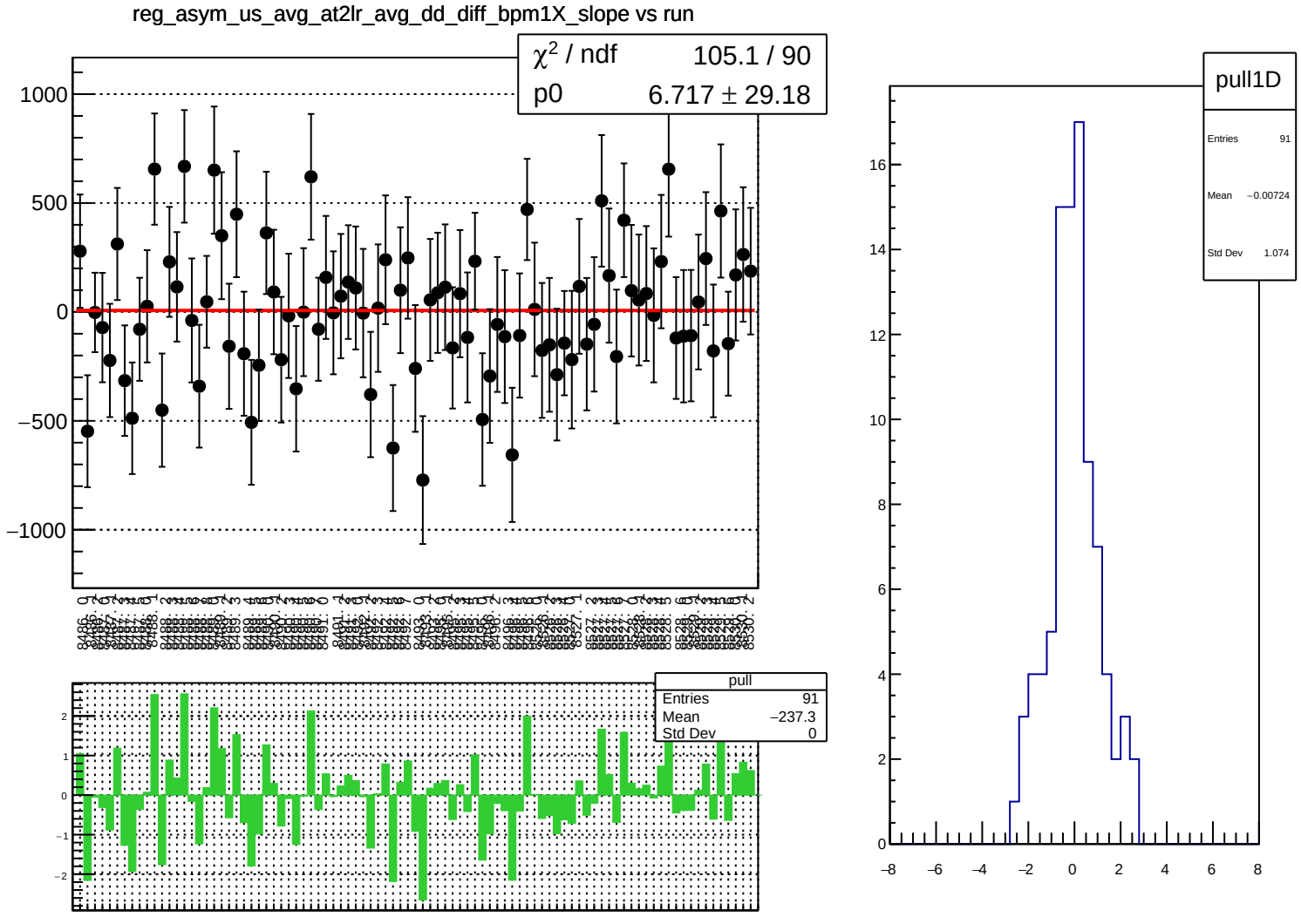

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 92.1 / 90
p0 74.28 ± 46.78
2000
1500
1000
500
0
−500
−1000
−1500
pull
Entries 91
Mean −583.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.004329
Std Dev 1.006
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

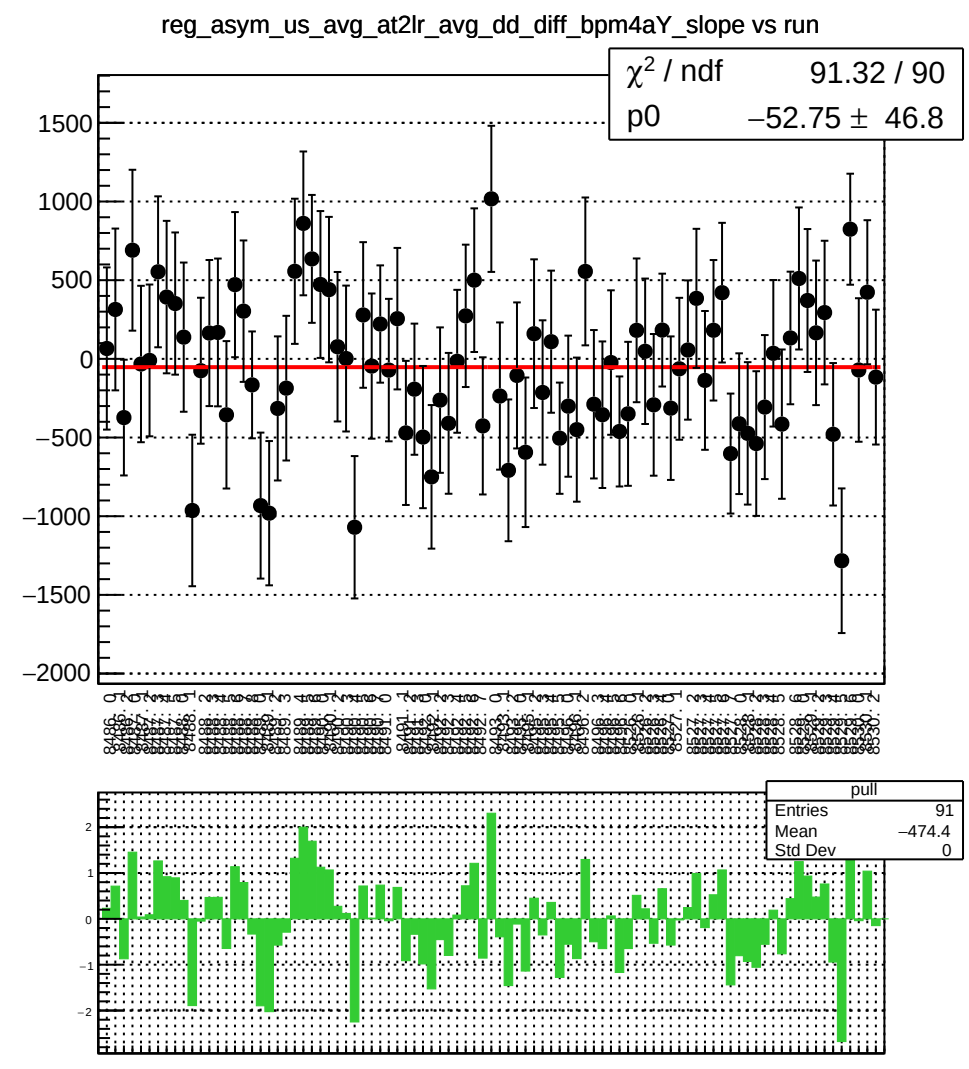

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 103.8 / 90
p0 140.7 ± 31.71
1000
500
0
−500
−1000
pull
Entries 91
Mean −31.72
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.009746
Std Dev 1.068
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

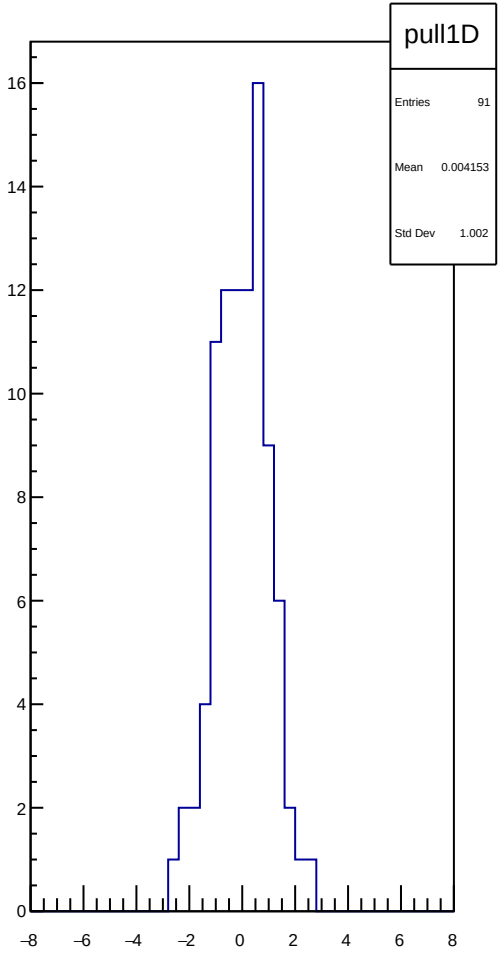

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 95.72 / 90
p0 −78.23 ± 49.56
pull
Entries 91
Mean −567.2
Std Dev 0

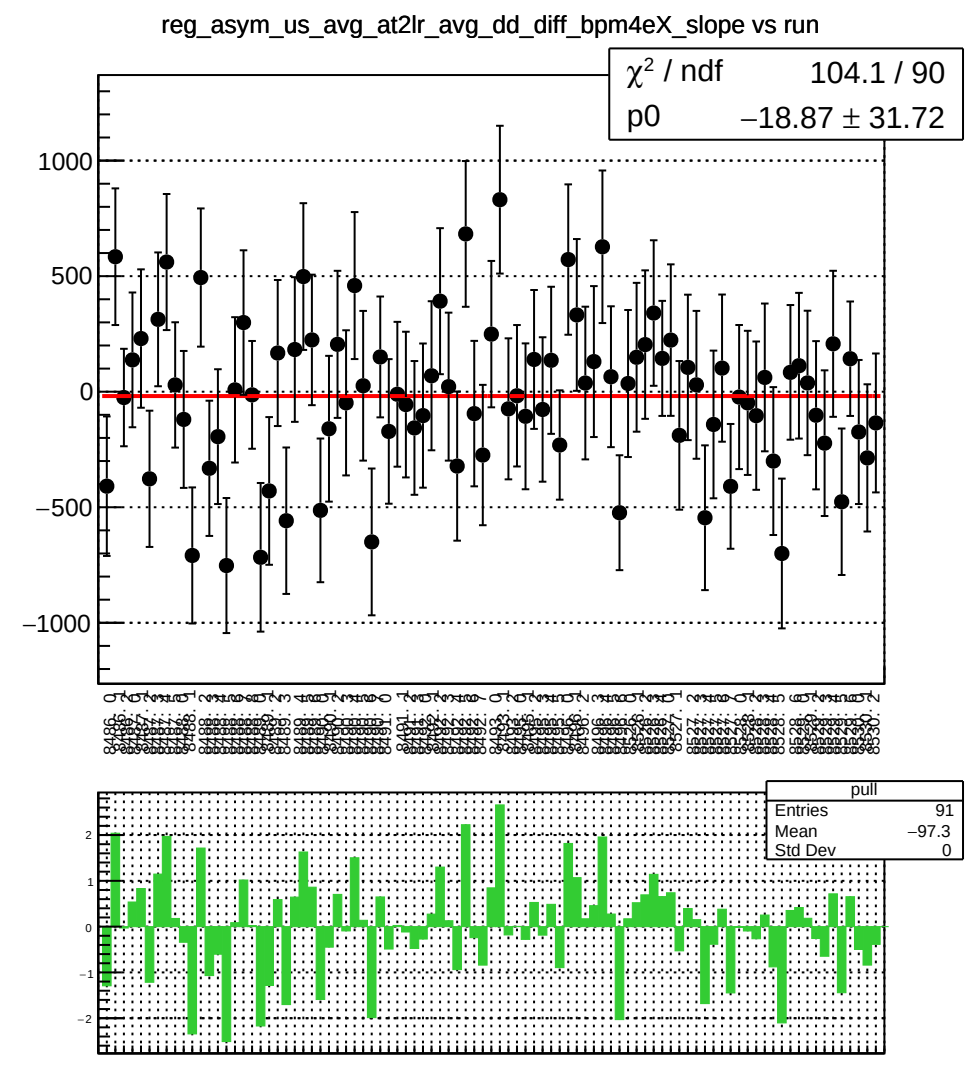

pull1D
Entries 91
Mean 0.00483
Std Dev 1.026

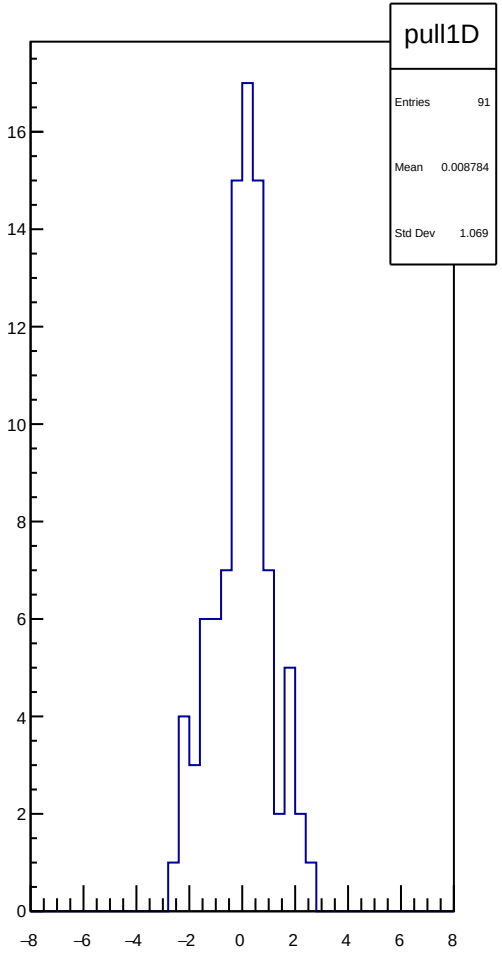

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 91.54 / 90
p0 −36.09 ± 2.961
50
0
−50
−100
−150
pull
Entries 91
Mean −279.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.01113
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

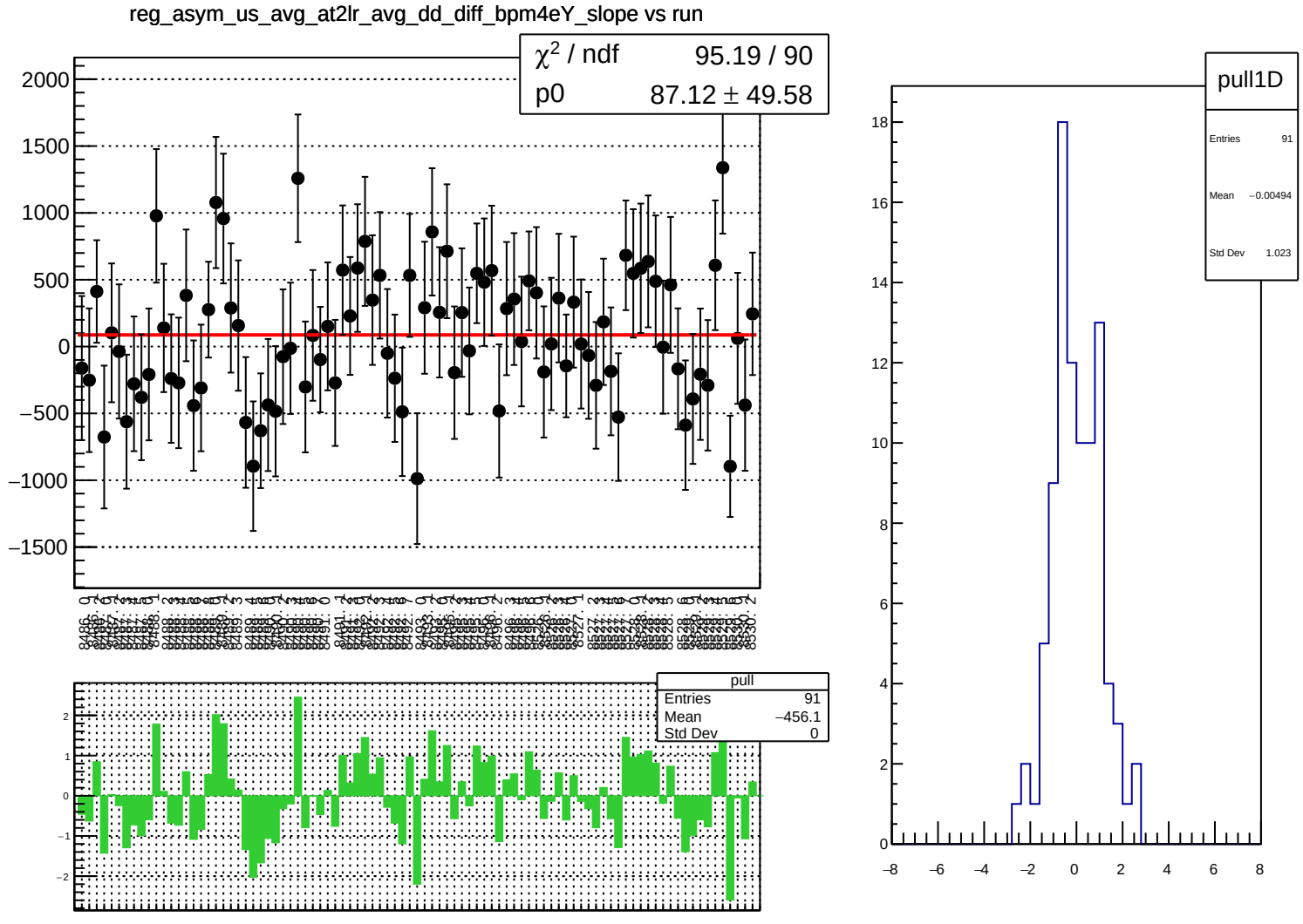

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 105.1 / 90
p0 6.717 ± 29.18
1000
500
0
−500
−1000
pull
Entries 91
Mean −237.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.00724
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

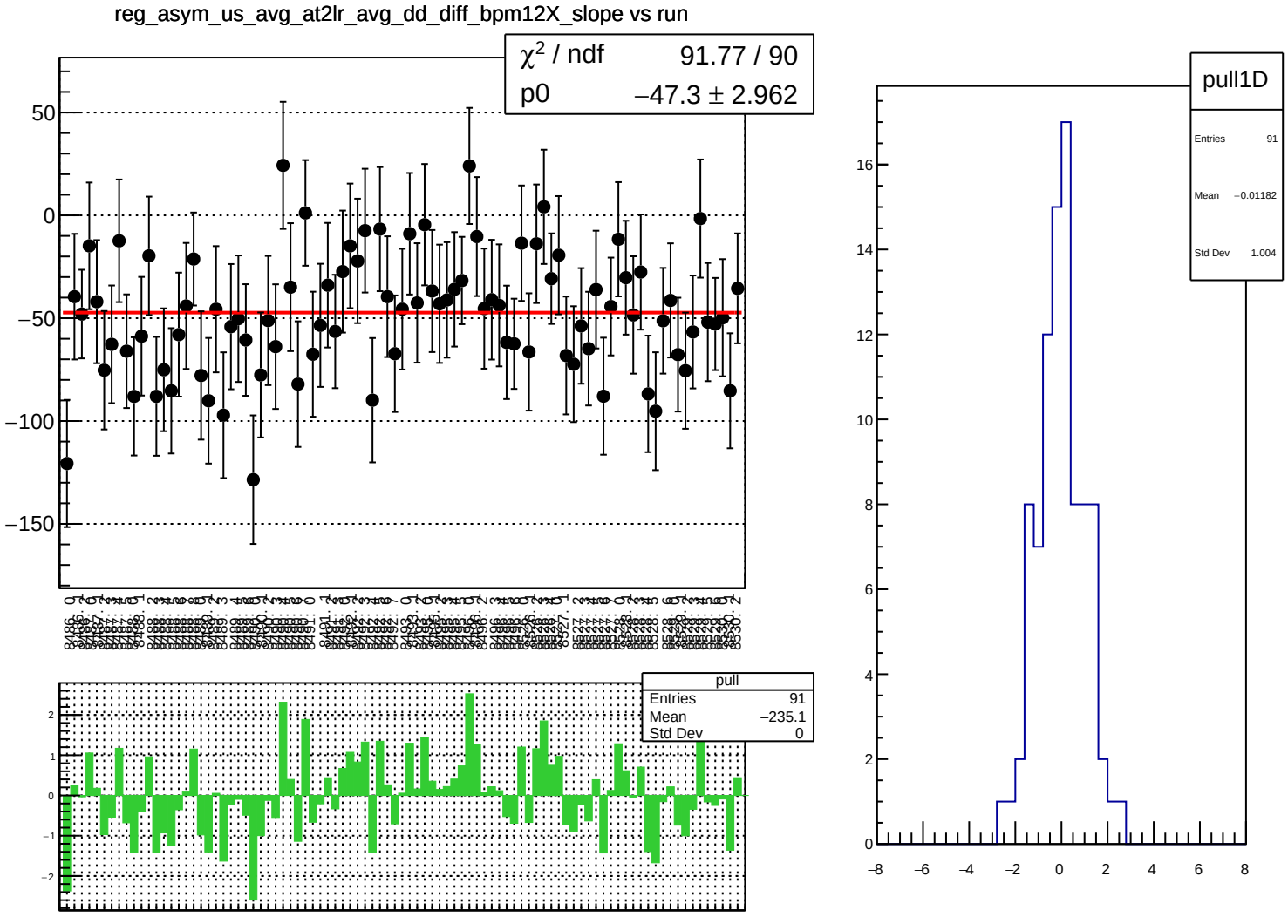

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 91.32 / 90
p0 −52.75 ± 46.8
pull
Entries 91
Mean −474.4
Std Dev 0

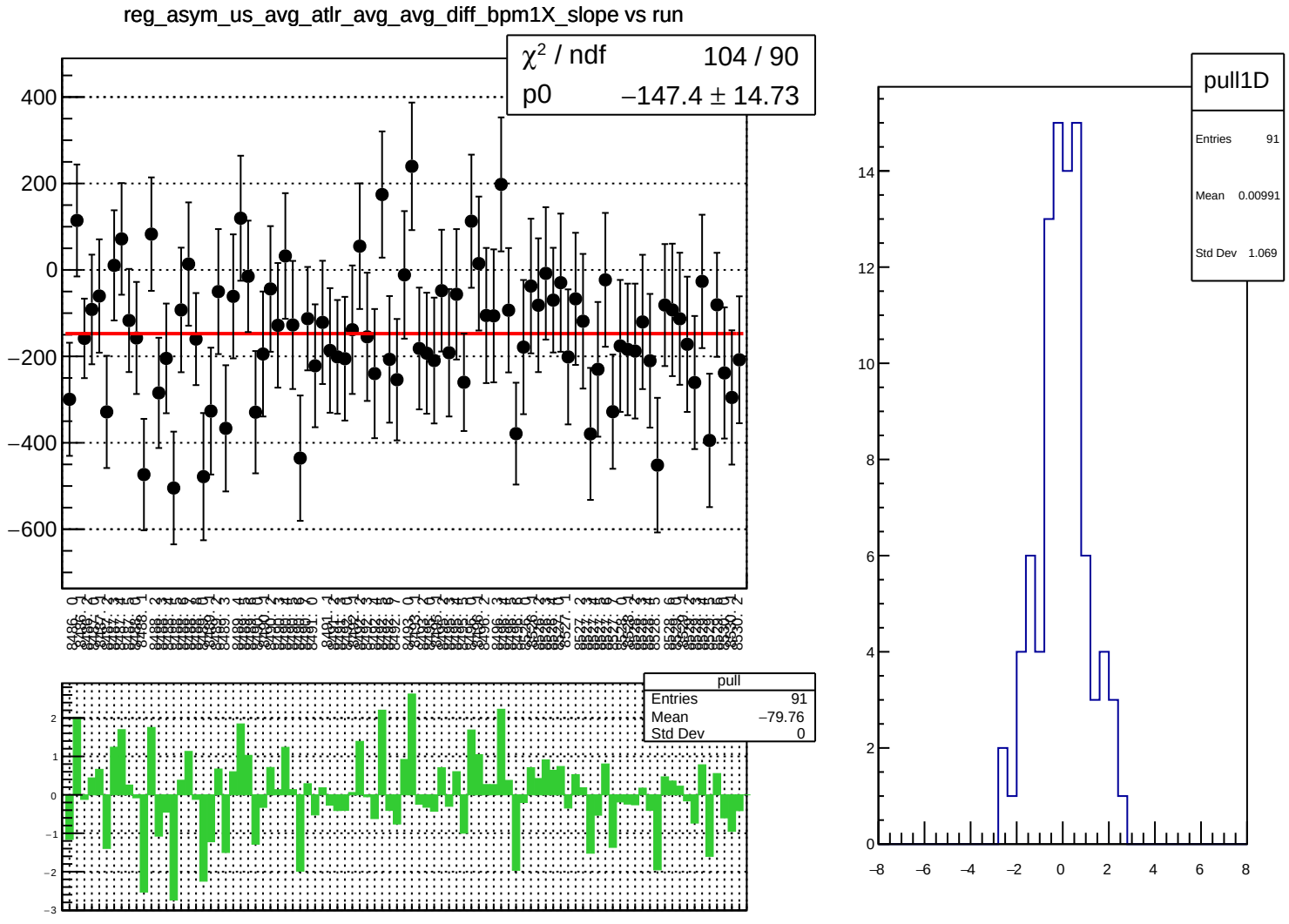

pull1D
Entries 91
Mean 0.004153
Std Dev 1.002

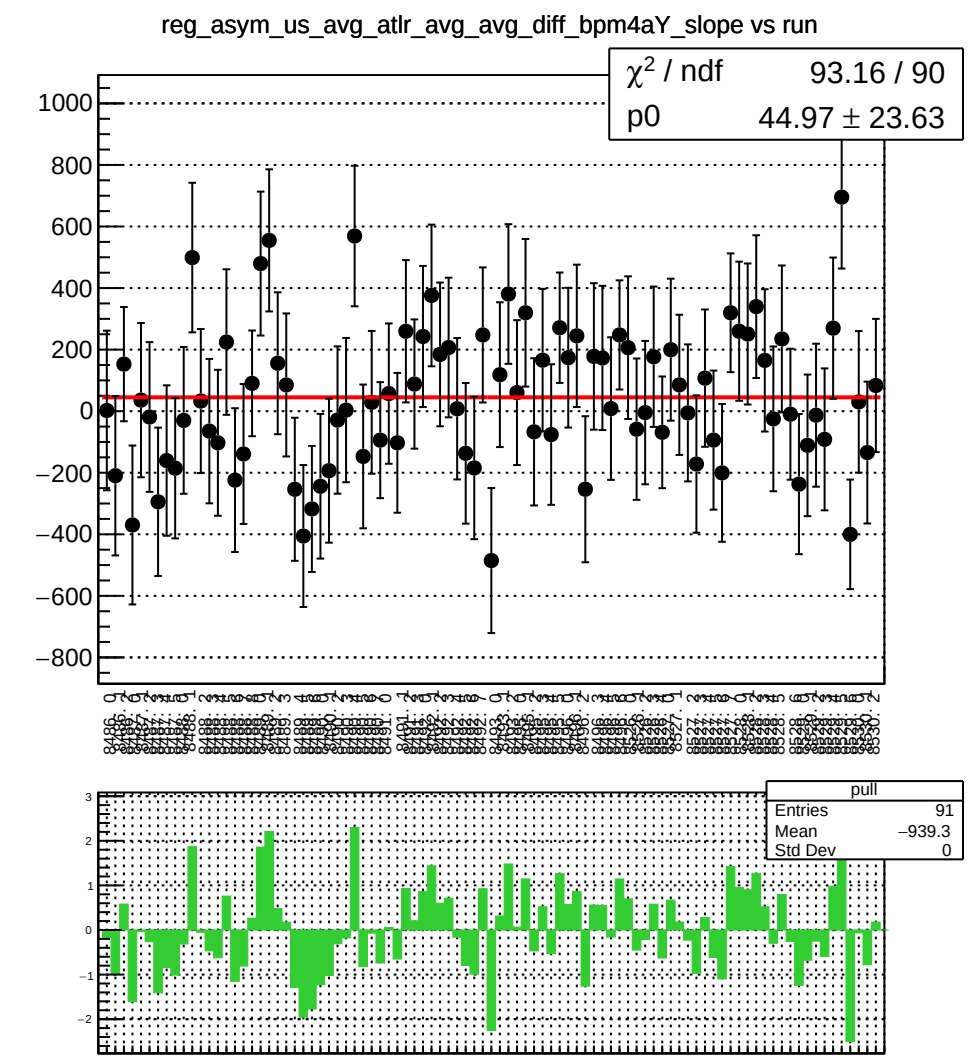

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 104.1 / 90
p0 −18.87 ± 31.72
1000
500
0
−500
−1000
pull
Entries 91
Mean −97.3
Std Dev 0
2
1
0
−1
−2

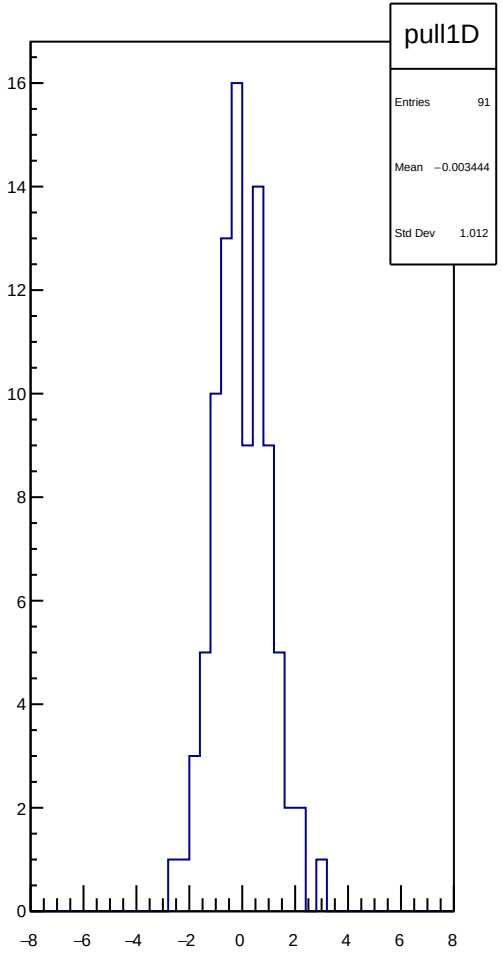

pull1D
Entries 91
Mean 0.008784
Std Dev 1.069
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

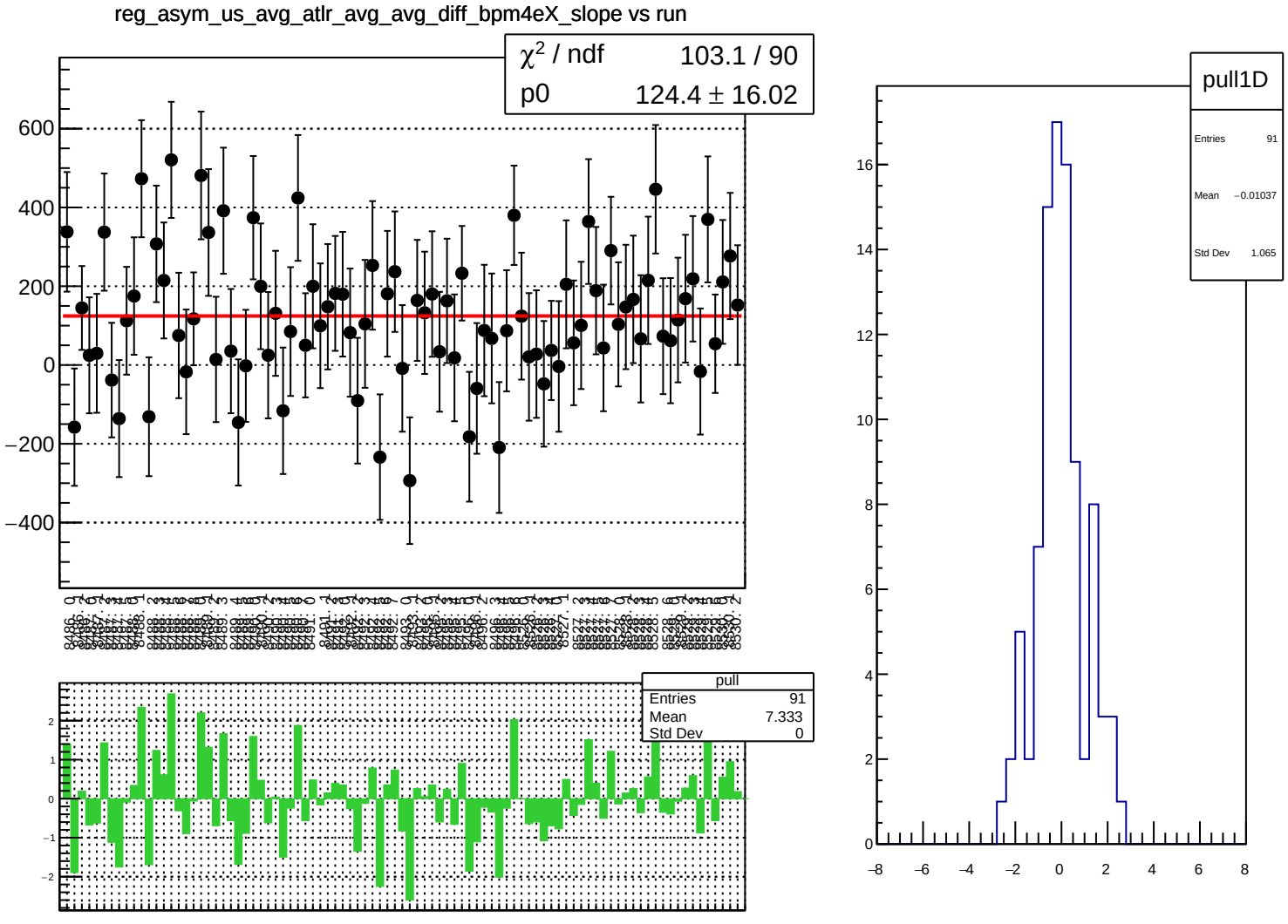

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 95.19 / 90
p0 87.12 ± 49.58
pull
Entries 91
Mean −456.1
Std Dev 0
pull1D
Entries 91
Mean −0.00494
Std Dev 1.023

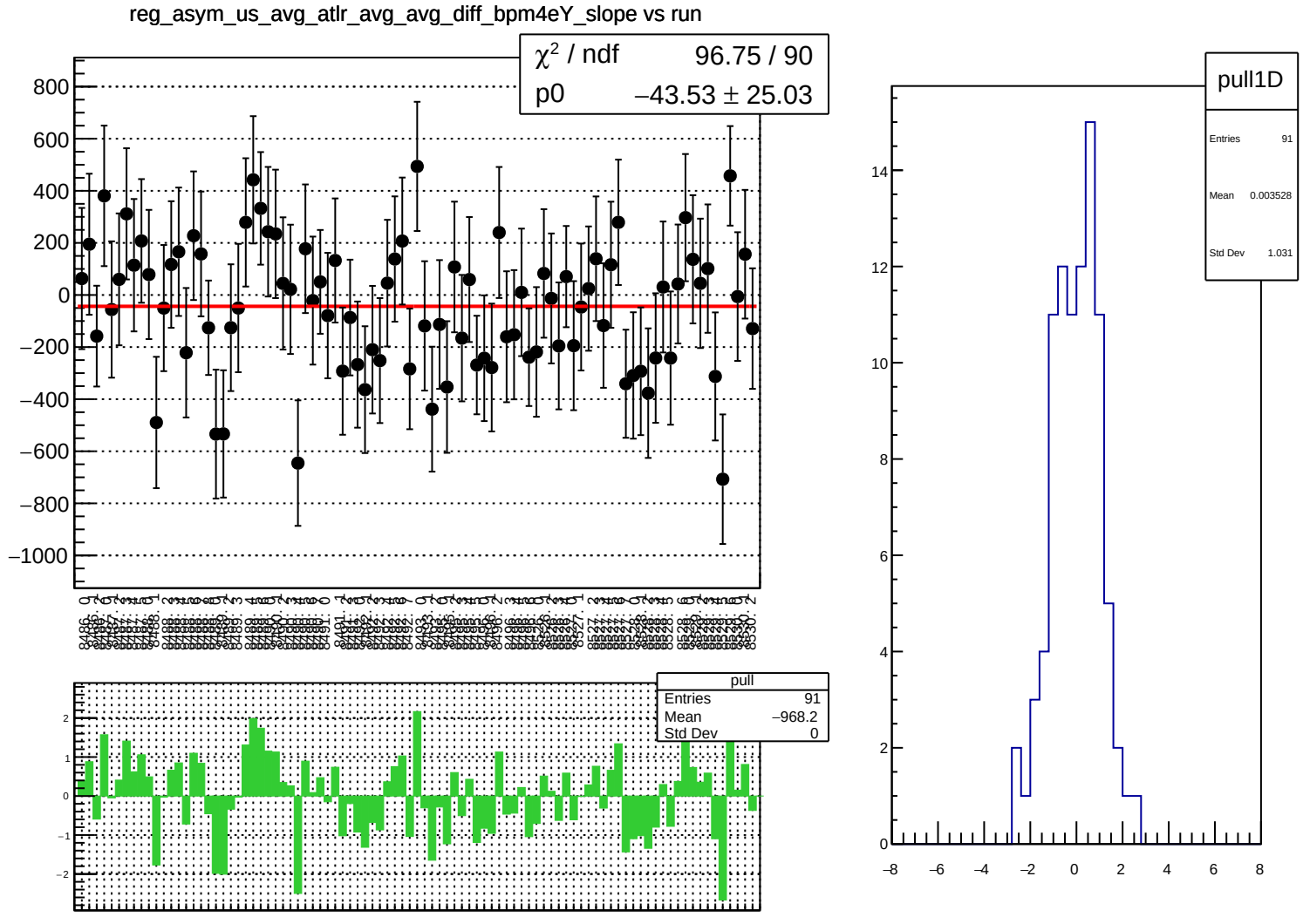

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 91.77 / 90
p0 −47.3 ± 2.962
50
0
−50
−100
−150
pull
Entries 91
Mean −235.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.01182
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

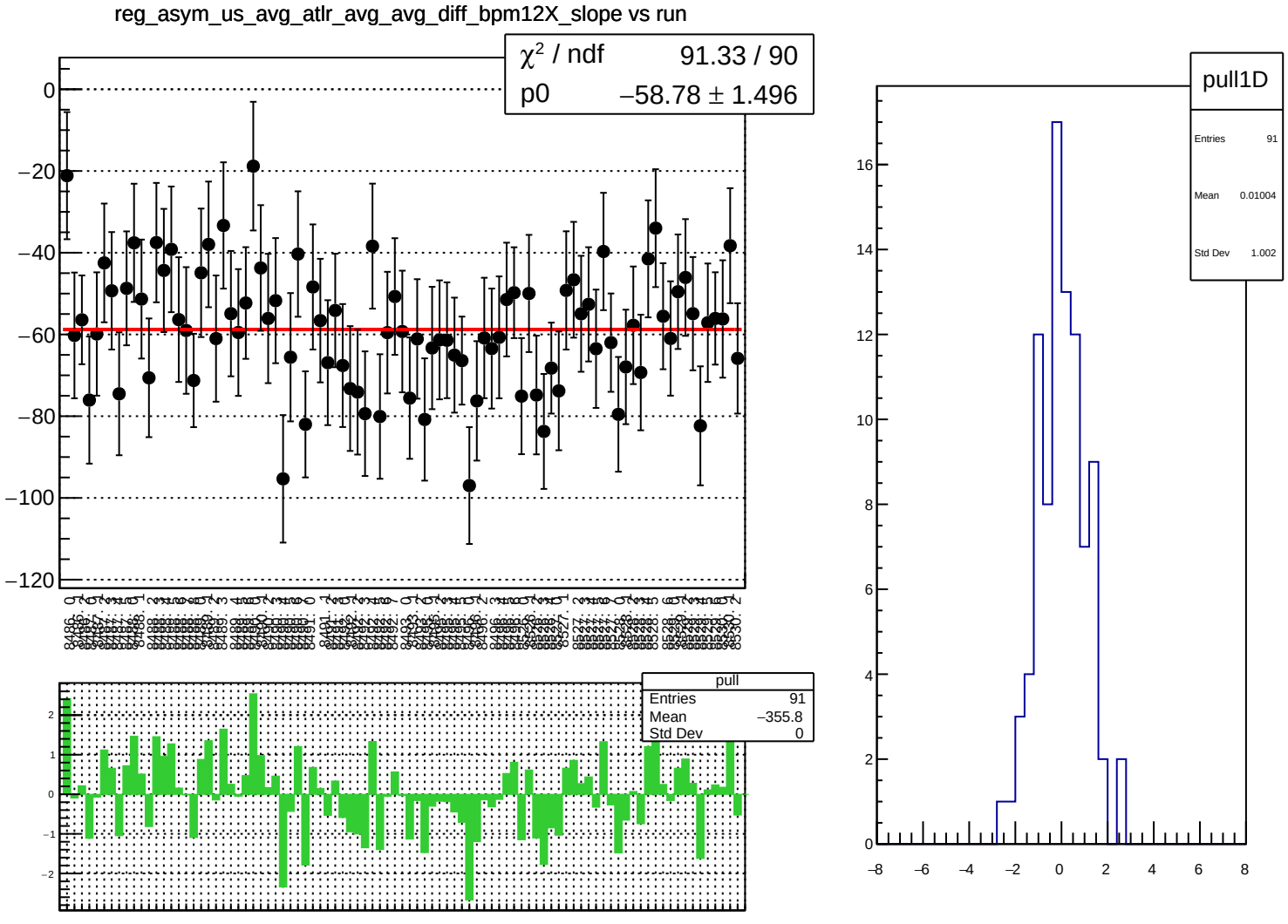

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 104 / 90
p0 −147.4 ± 14.73
400
200
0
−200
−400
−600
pull
Entries 91
Mean −79.76
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean 0.00991
Std Dev 1.069
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

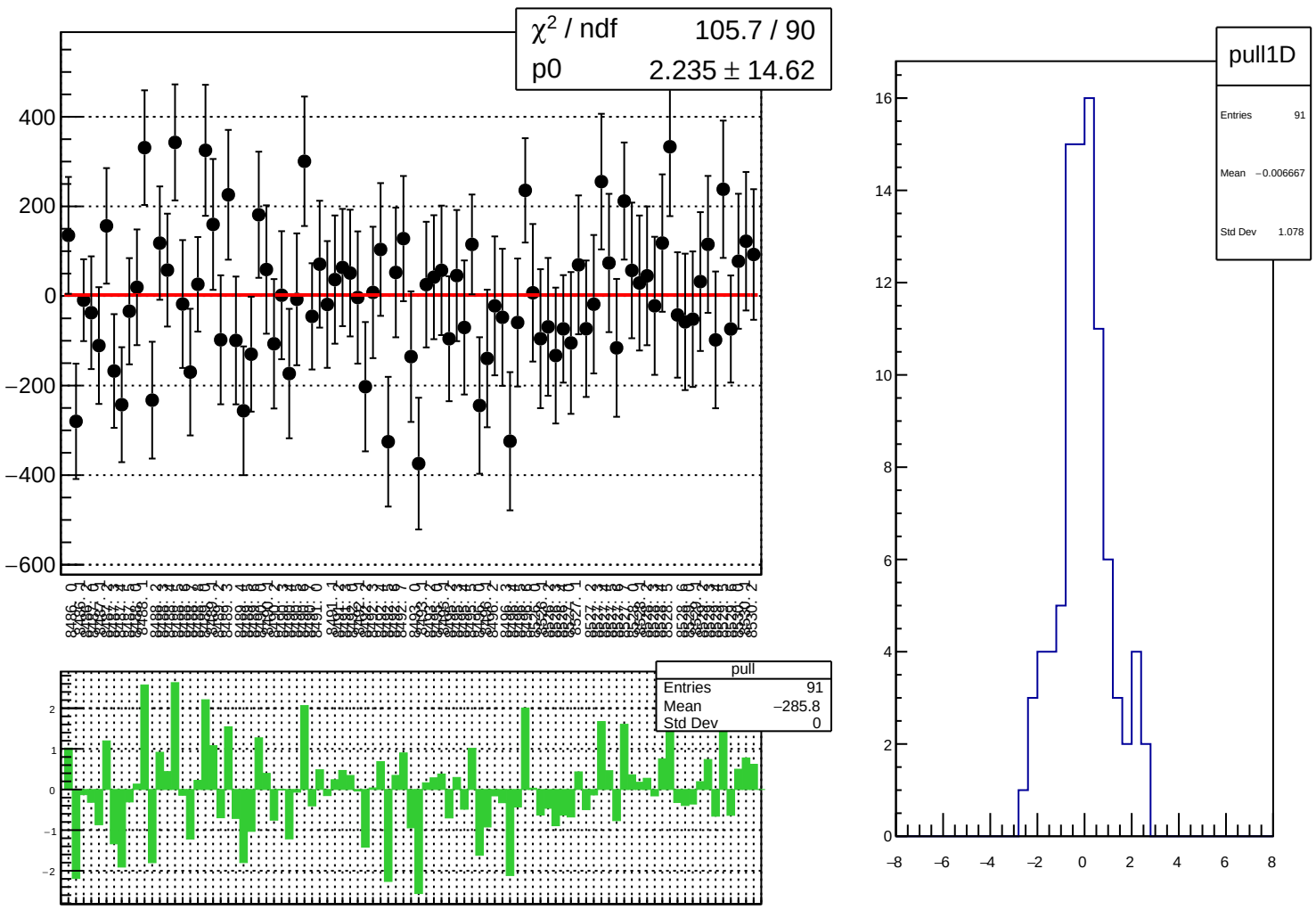

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 93.16 / 90
p0 44.97 ± 23.63
pull
Entries 91
Mean −939.3
Std Dev 0

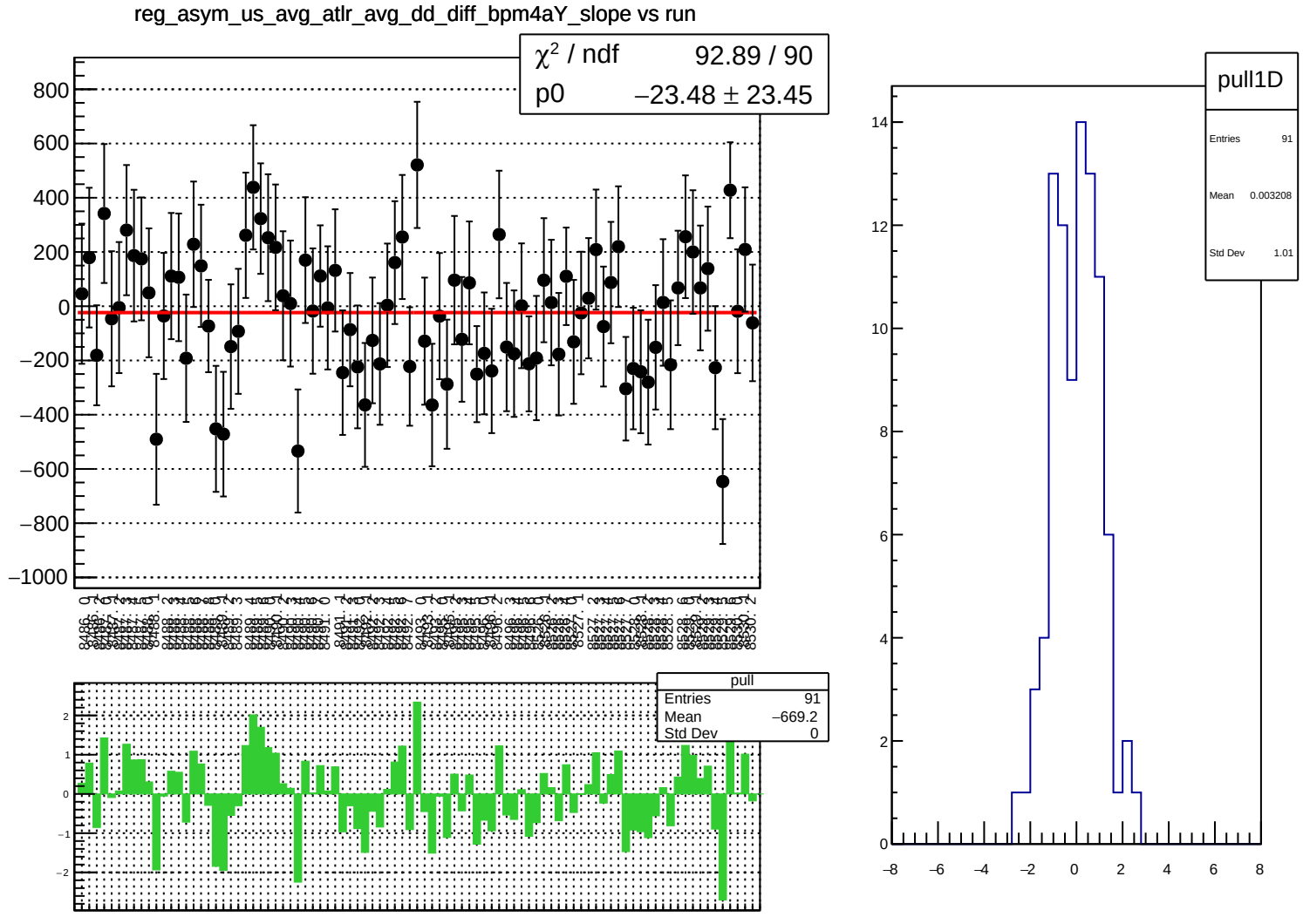

pull1D
Entries 91
Mean −0.003444
Std Dev 1.012

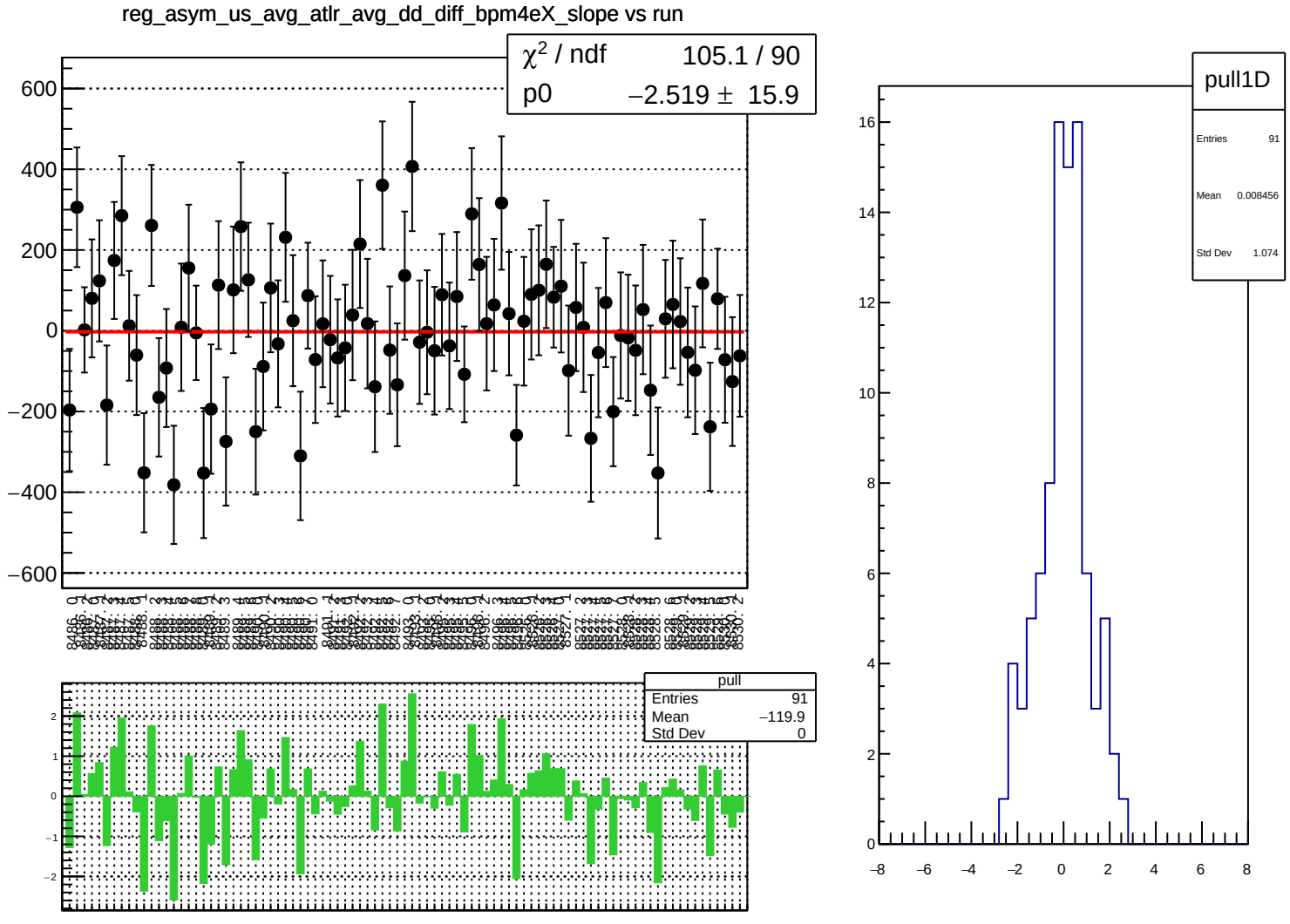

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 103.1 / 90
p0 124.4 ± 16.02
600
400
200
0
−200
−400
pull
Entries 91
Mean 7.333
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.01037
Std Dev 1.065
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

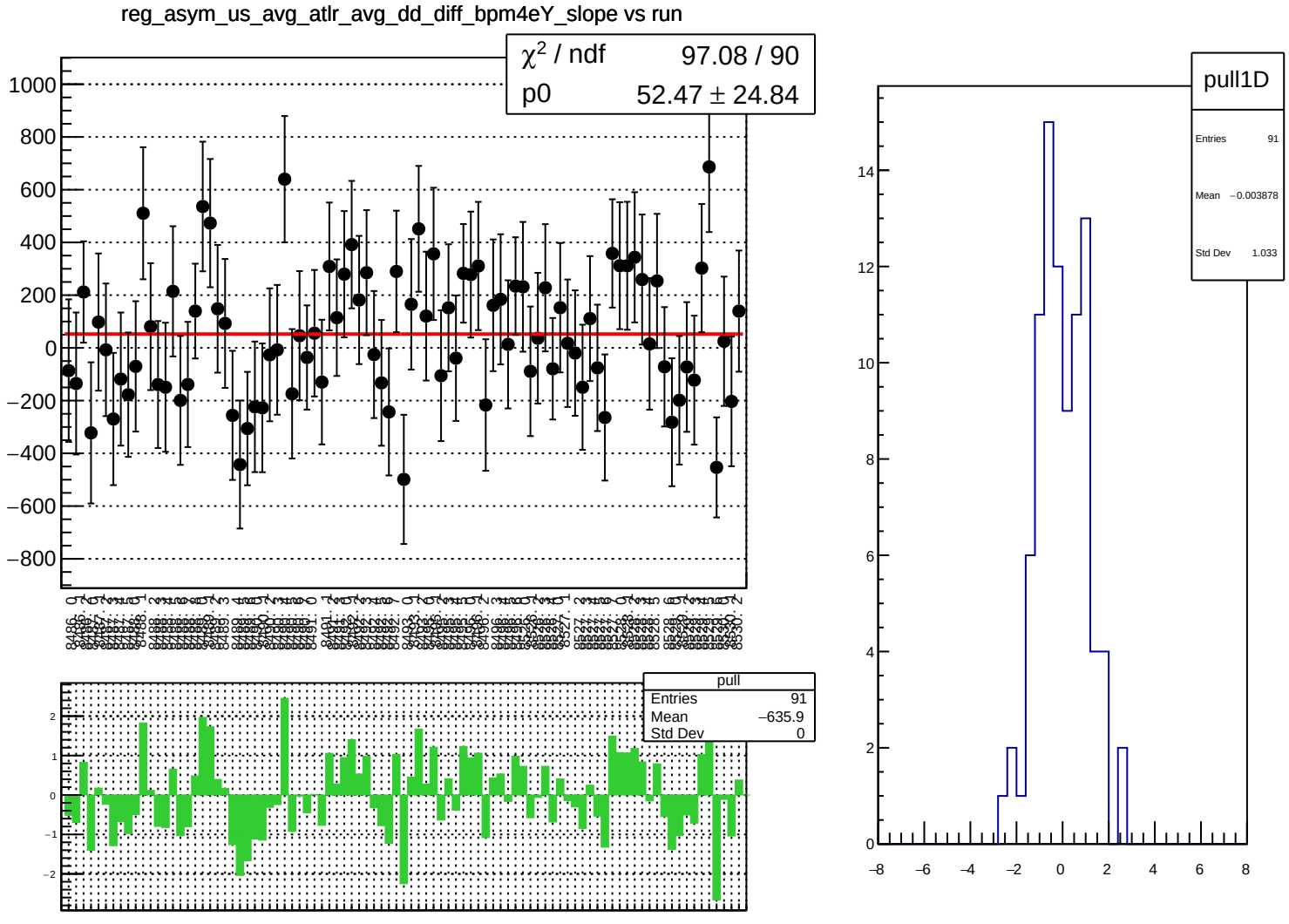

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 96.75 / 90
p0 −43.53 ± 25.03
800
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 91
Mean −968.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.003528
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

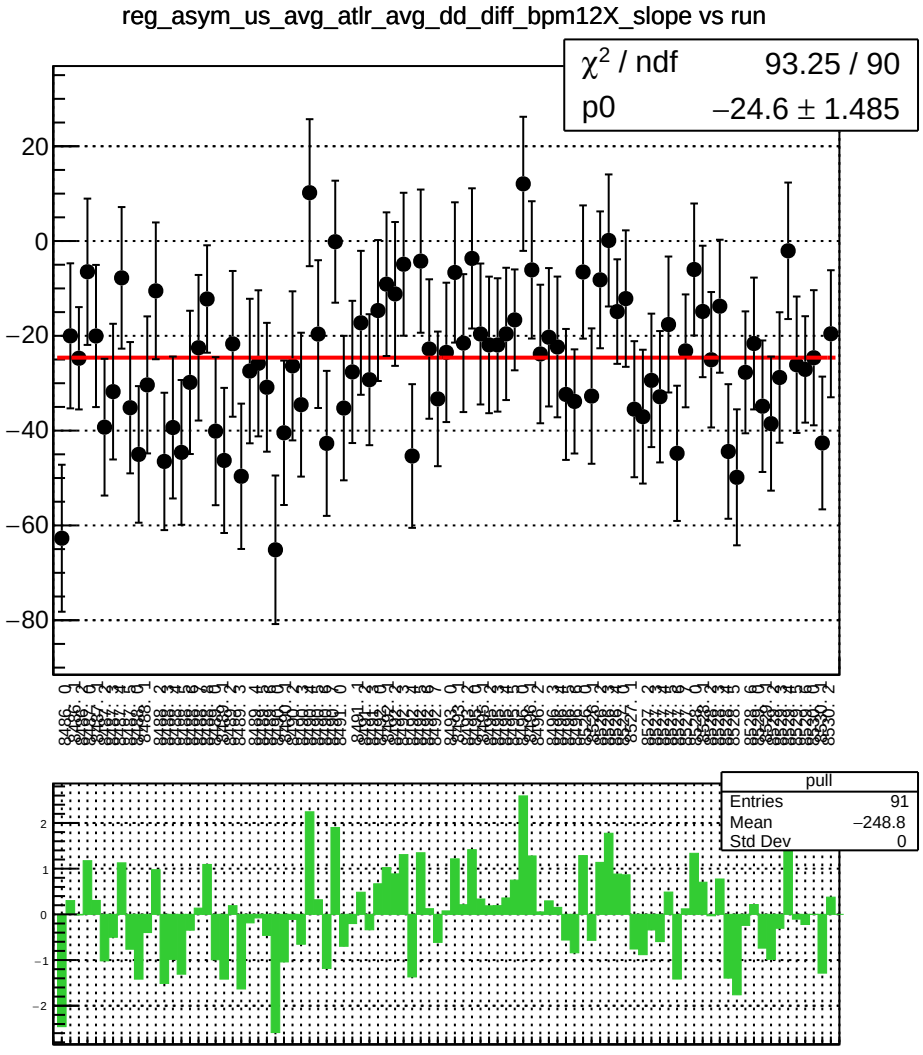

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 91.33 / 90
p0 −58.78 ± 1.496
pull
Entries 91
Mean −355.8
Std Dev 0
pull1D
Entries 91
Mean 0.01004
Std Dev 1.002

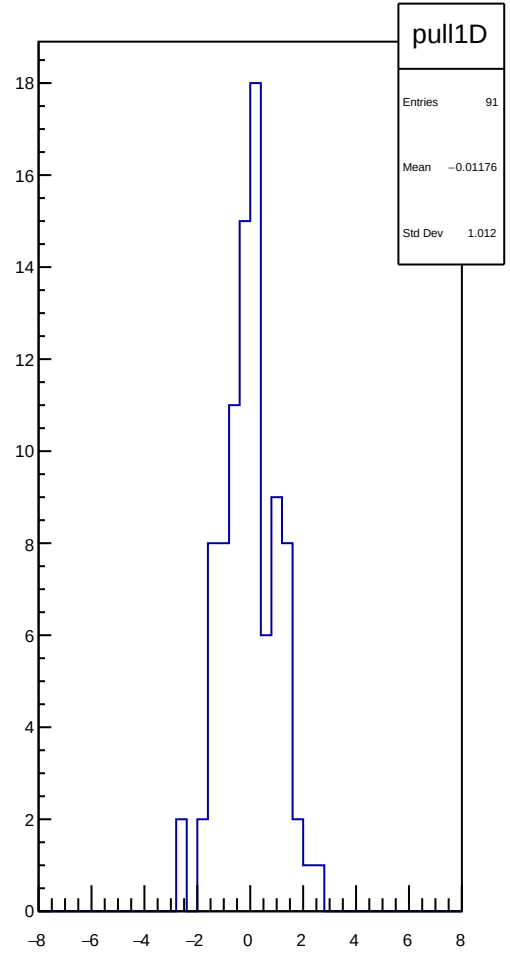

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 105.7 / 90
p0 2.235 ± 14.62
400
200
0
−200
−400
−600
pull
Entries 91
Mean −285.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.006667
Std Dev 1.078
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

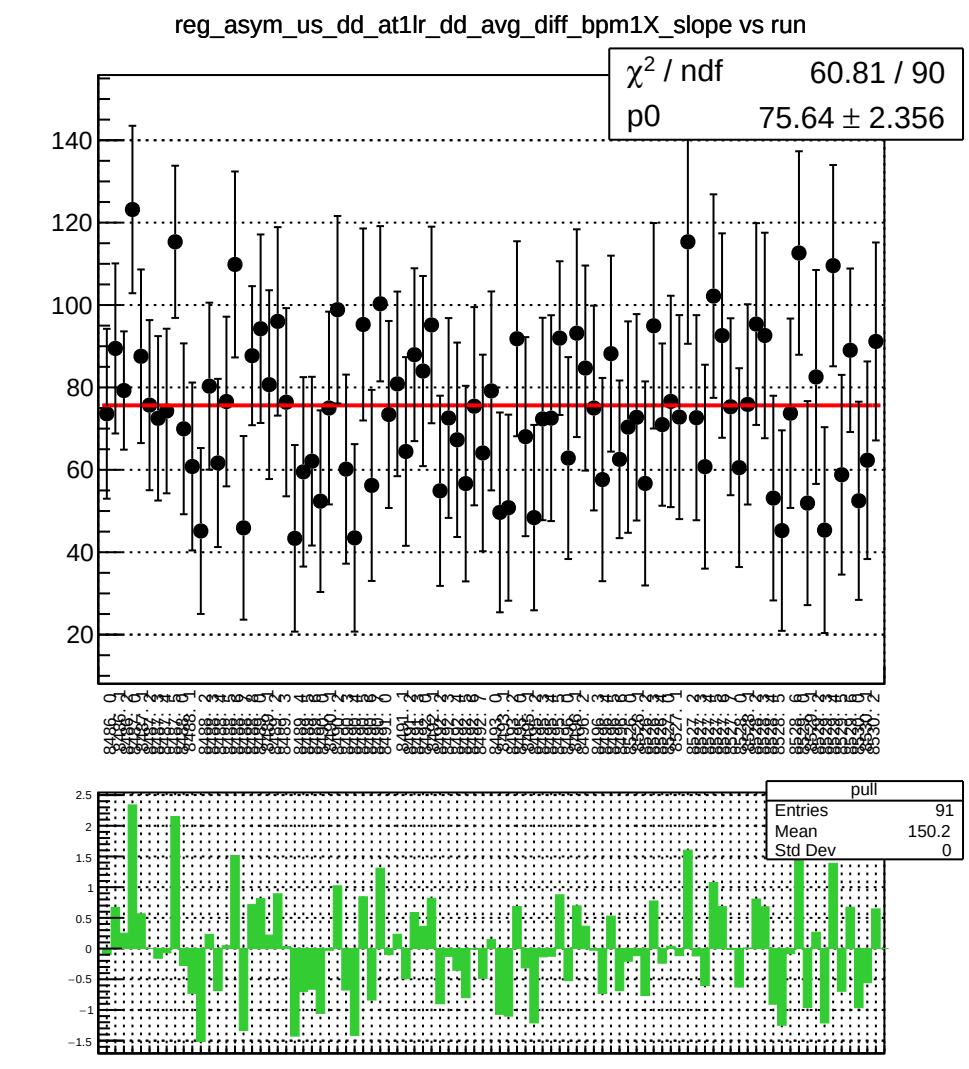

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 92.89 / 90
p0 −23.48 ± 23.45
pull
Entries 91
Mean −669.2
Std Dev 0
pull1D
Entries 91
Mean 0.003208
Std Dev 1.01

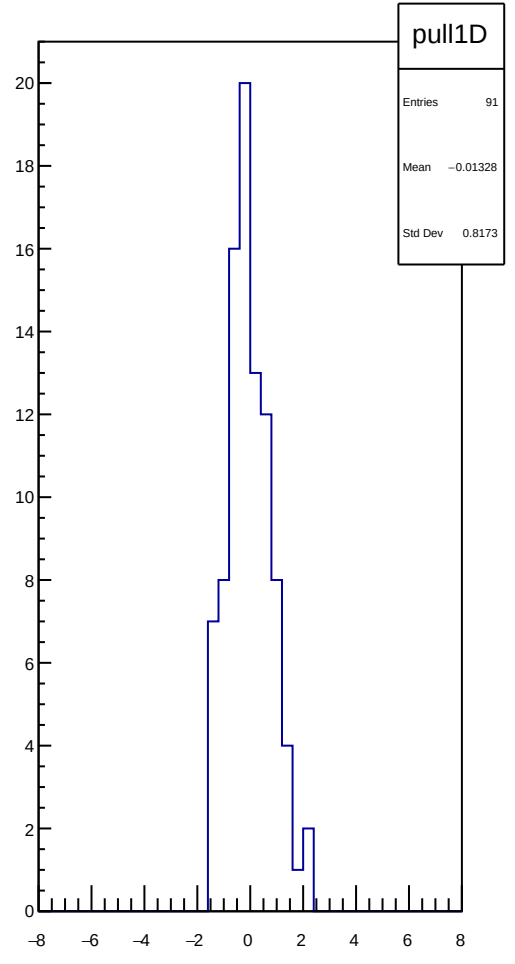

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 105.1 / 90
p0 −2.519 ± 15.9
pull
Entries 91
Mean −119.9
Std Dev 0
pull1D
Entries 91
Mean 0.008456
Std Dev 1.074

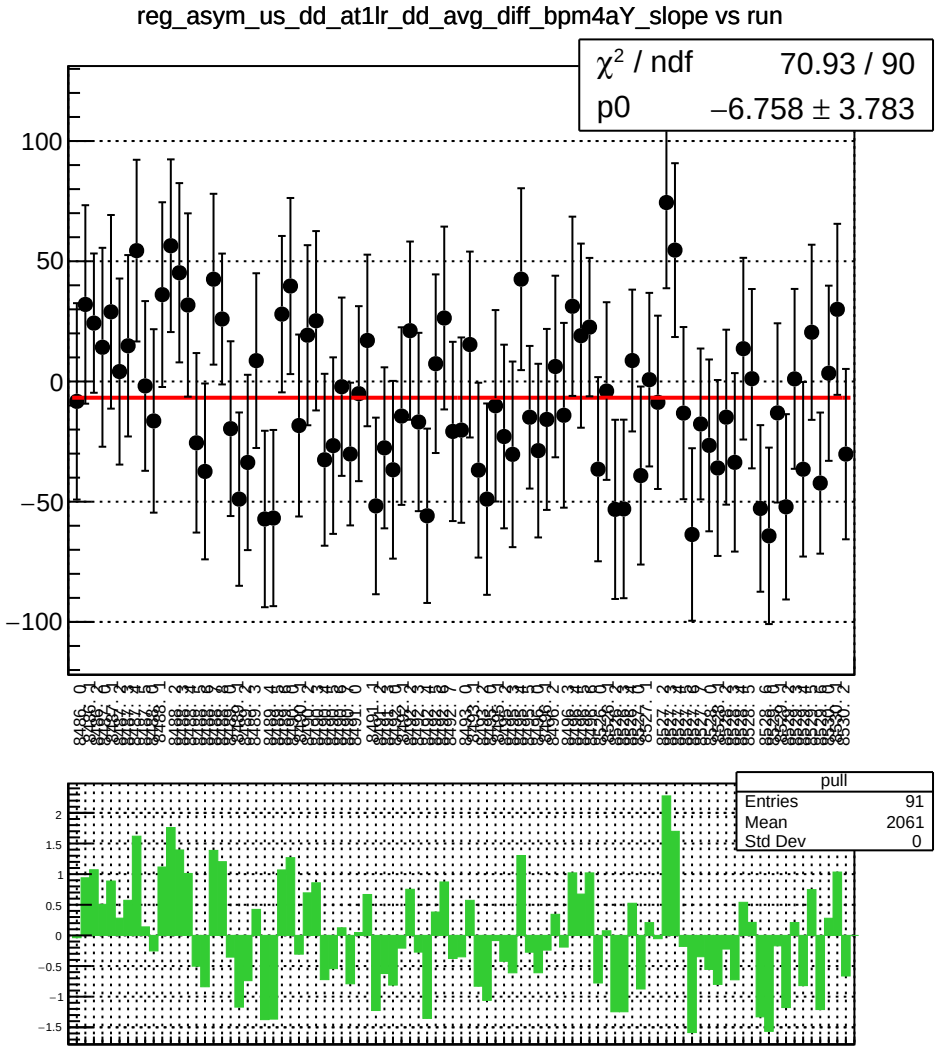

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 97.08 / 90
p0 52.47 ± 24.84
pull
Entries 91
Mean −635.9
Std Dev 0
pull1D
Entries 91
Mean −0.003878
Std Dev 1.033

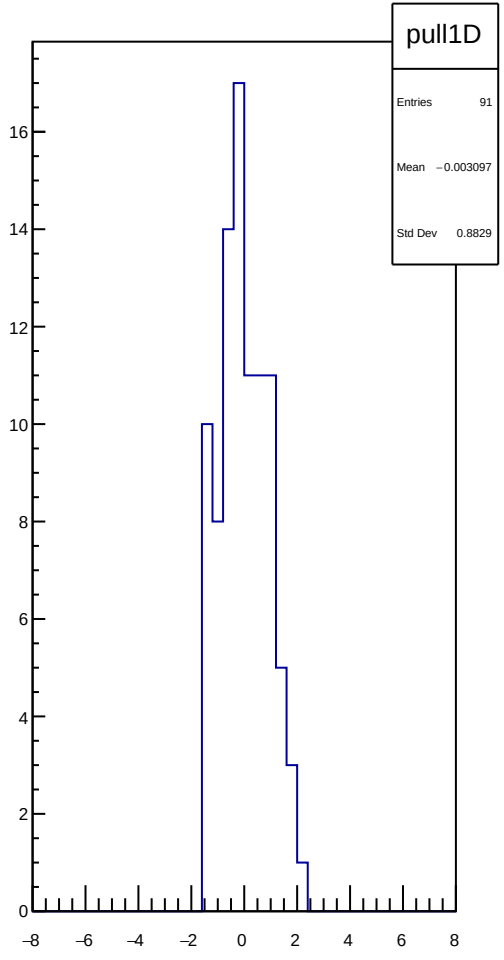

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 93.25 / 90
p0 −24.6 ± 1.485
pull
Entries 91
Mean −248.8
Std Dev 0

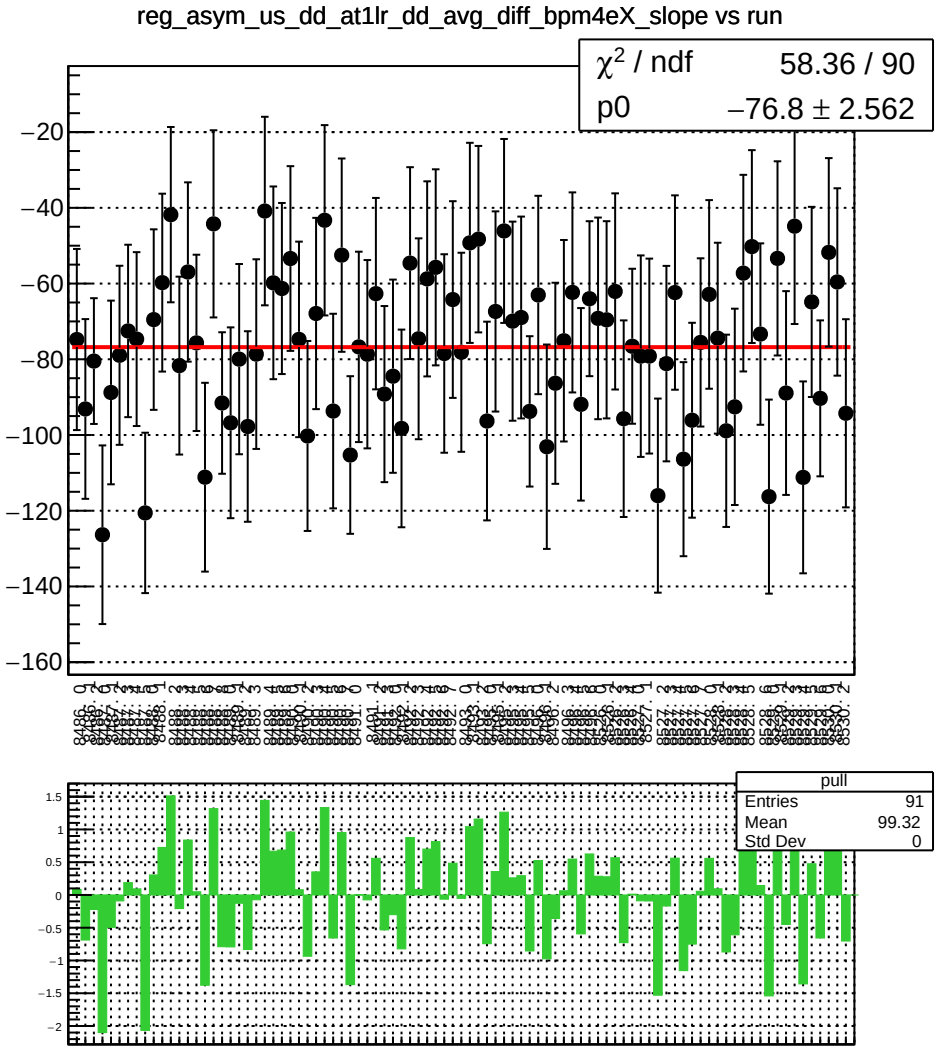

pull1D
Entries 91
Mean −0.01176
Std Dev 1.012

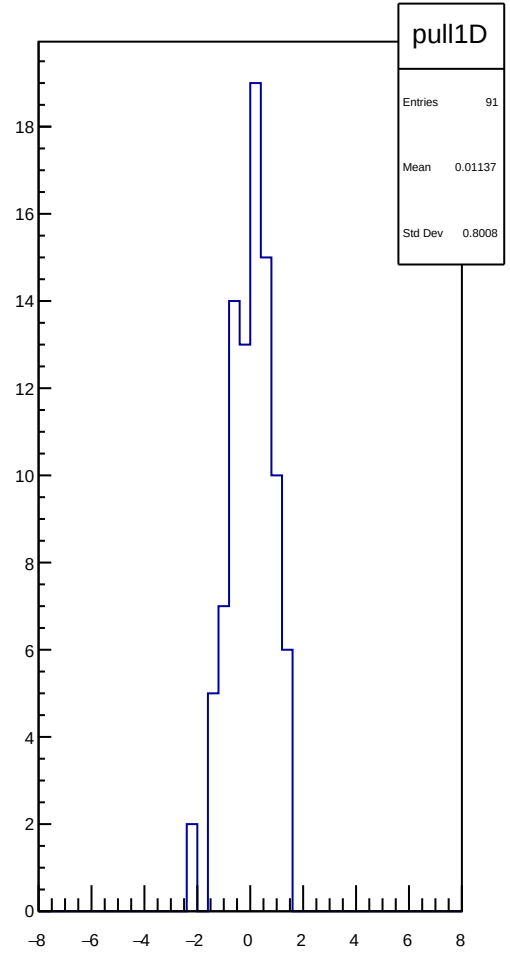

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 60.81 / 90
p0 75.64 ± 2.356
pull
Entries 91
Mean 150.2
Std Dev 0

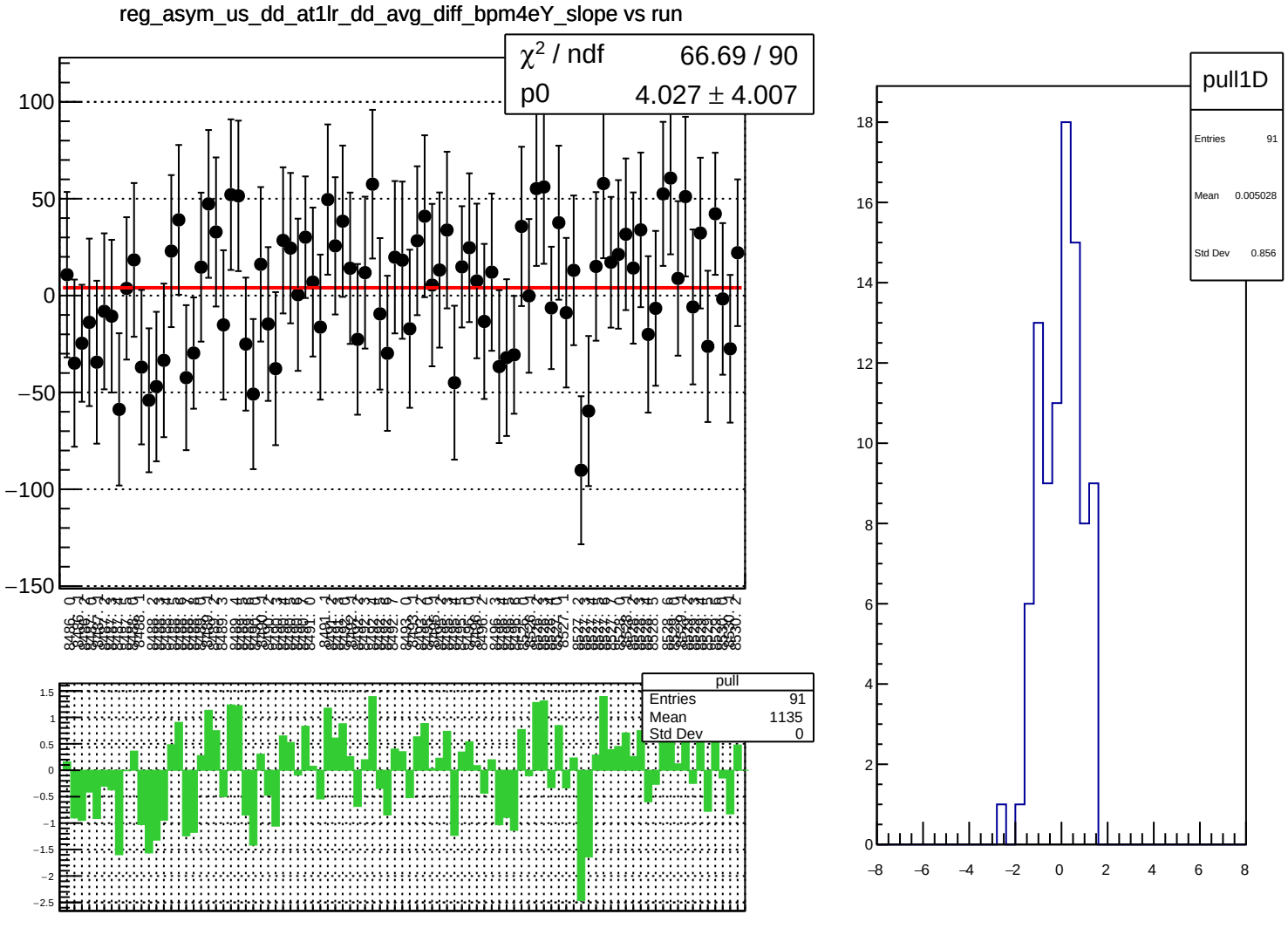

pull1D
Entries 91
Mean −0.01328
Std Dev 0.8173

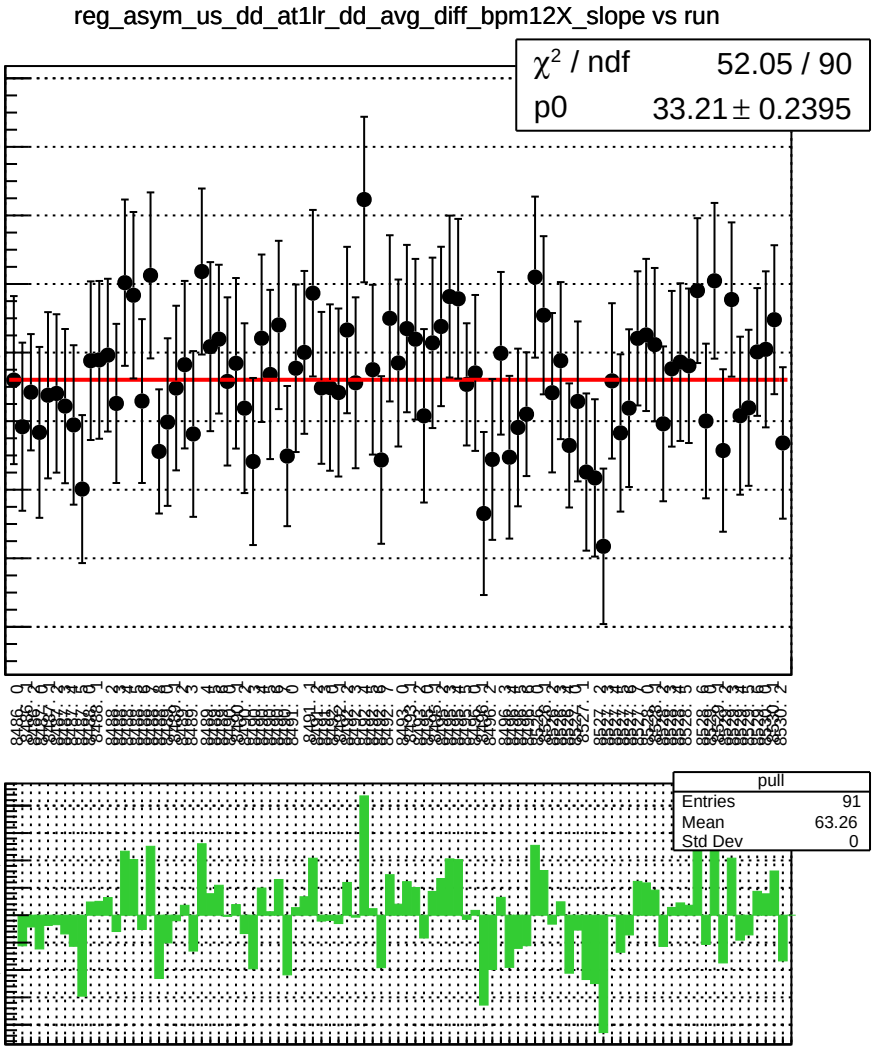

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 70.93 / 90
p0 −6.758 ± 3.783
100
50
0
−50
−100
pull
Entries 91
Mean 2061
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

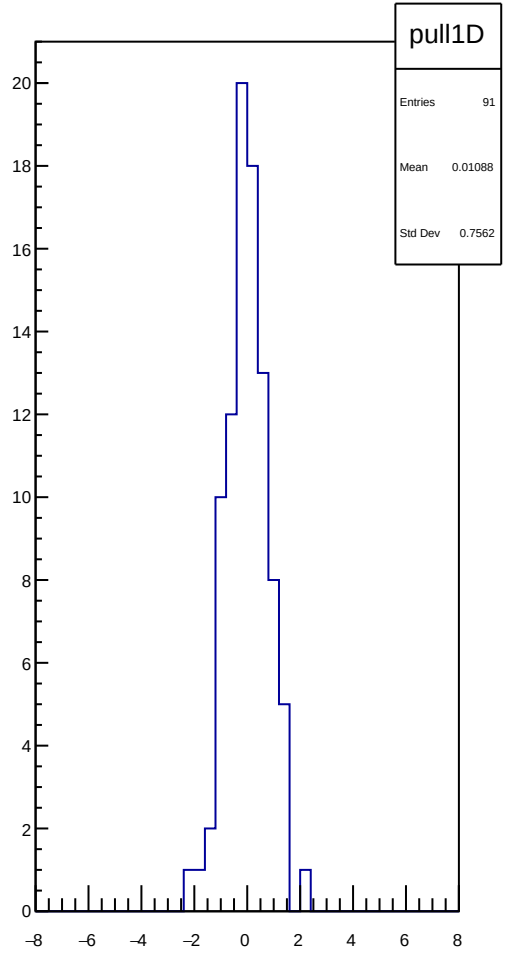

pull1D
Entries 91
Mean −0.003097
Std Dev 0.8829
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

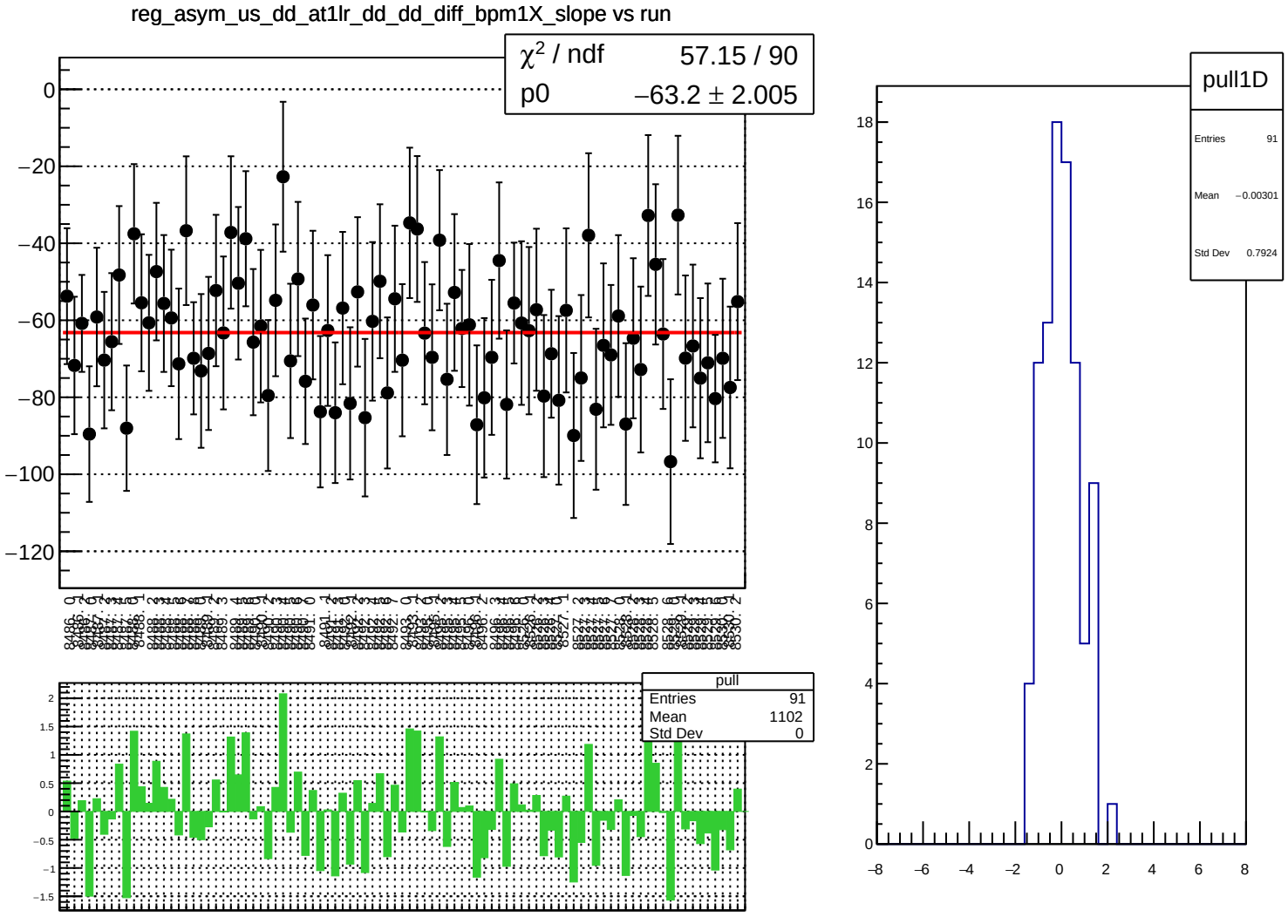

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 58.36 / 90
p0 −76.8 ± 2.562
pull
Entries 91
Mean 99.32
Std Dev 0

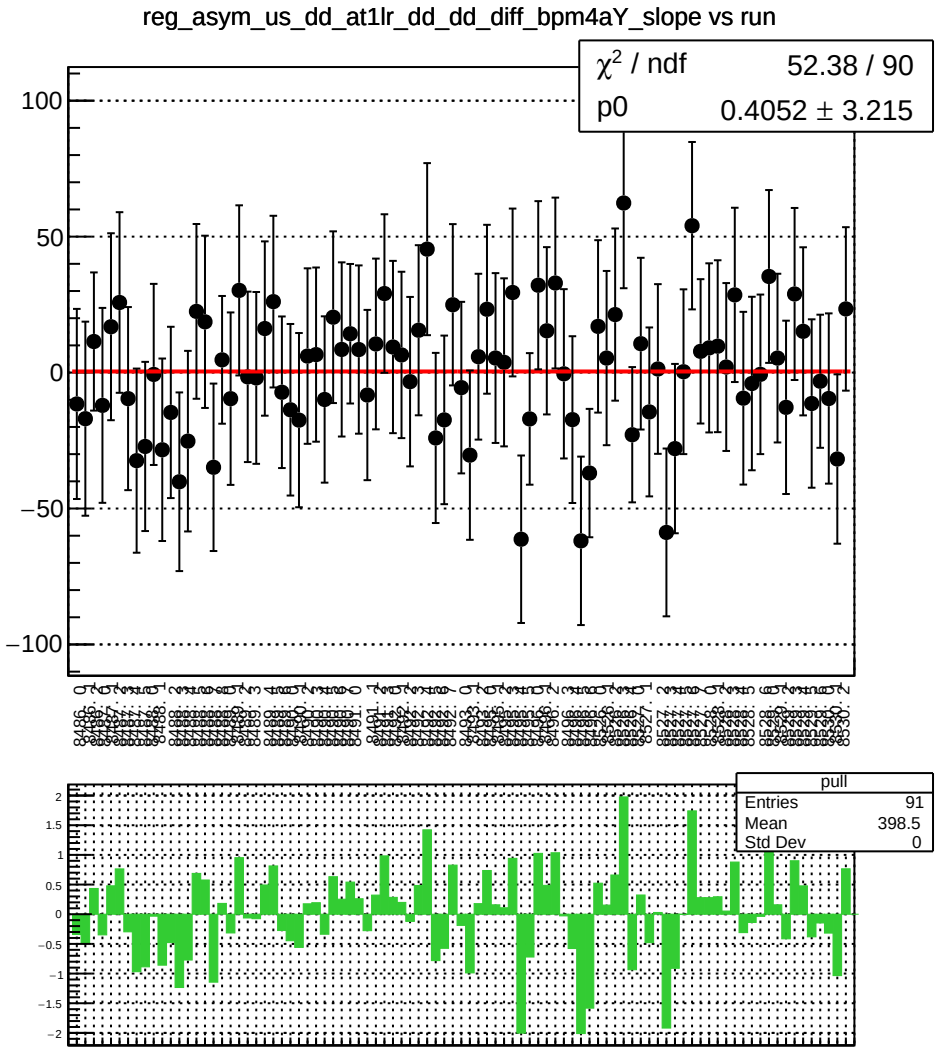

pull1D
Entries 91
Mean 0.01137
Std Dev 0.8008

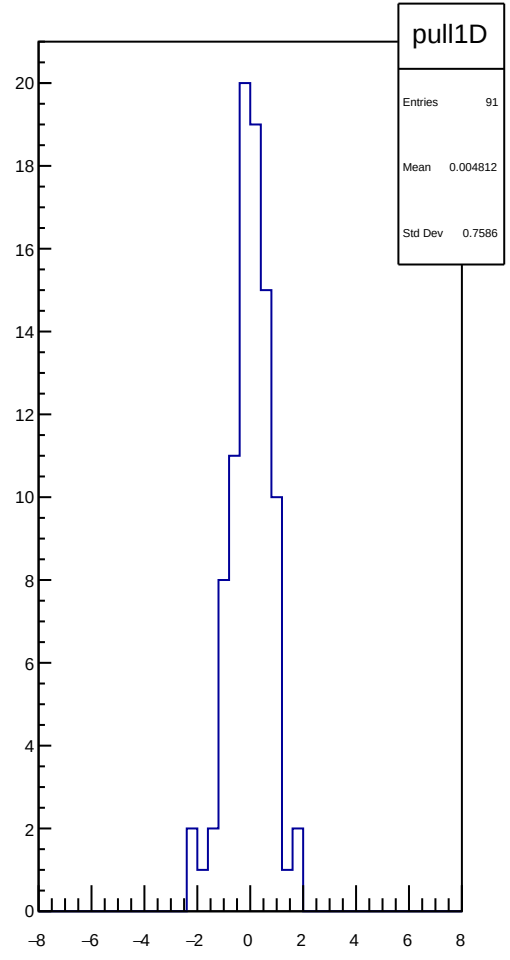

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 66.69 / 90
p0 4.027 ± 4.007
pull
Entries 91
Mean 1135
Std Dev 0
pull1D
Entries 91
Mean 0.005028
Std Dev 0.856

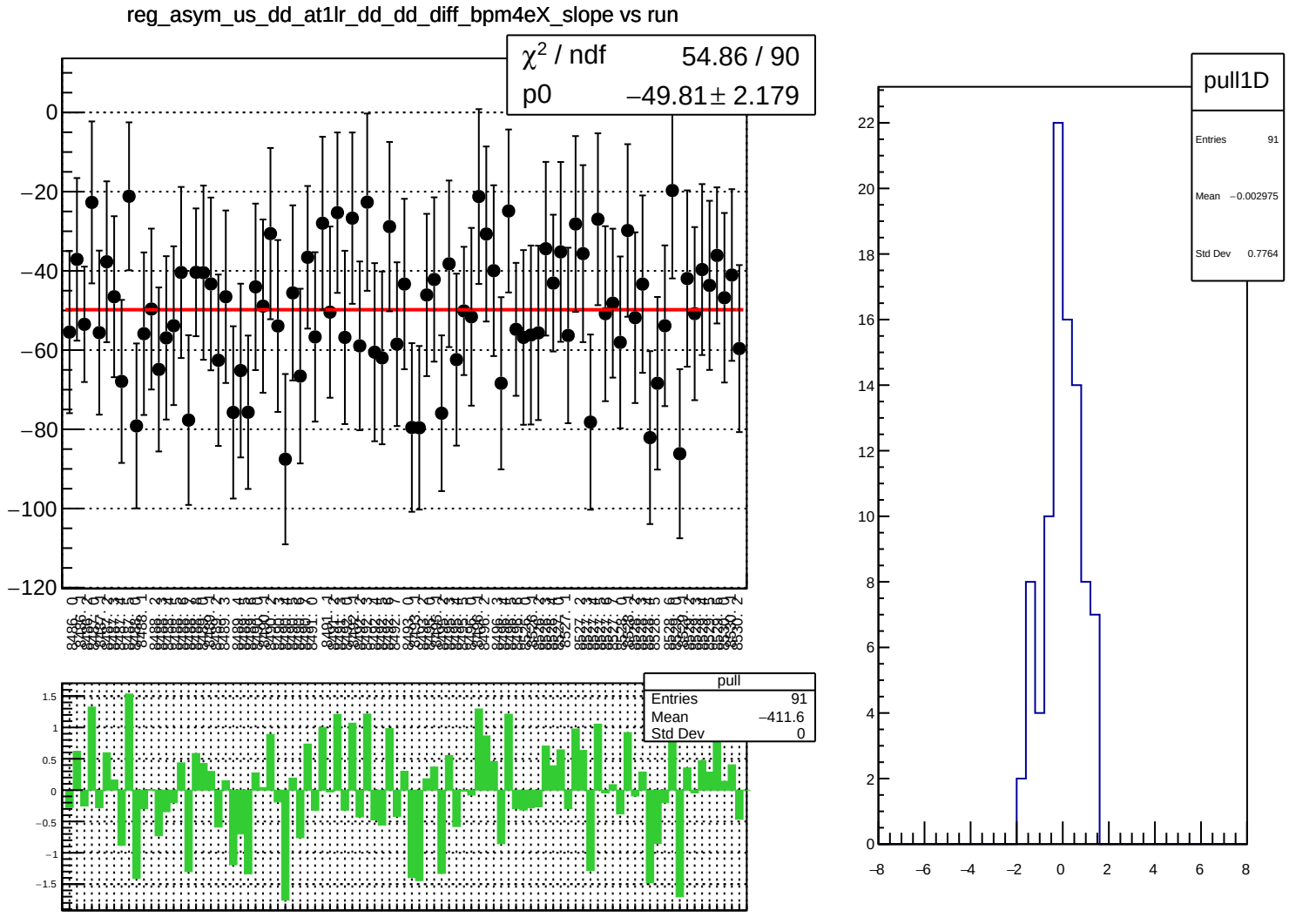

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 52.05 / 90
p0 33.21 ± 0.2395
pull
Entries 91
Mean 63.26
Std Dev 0

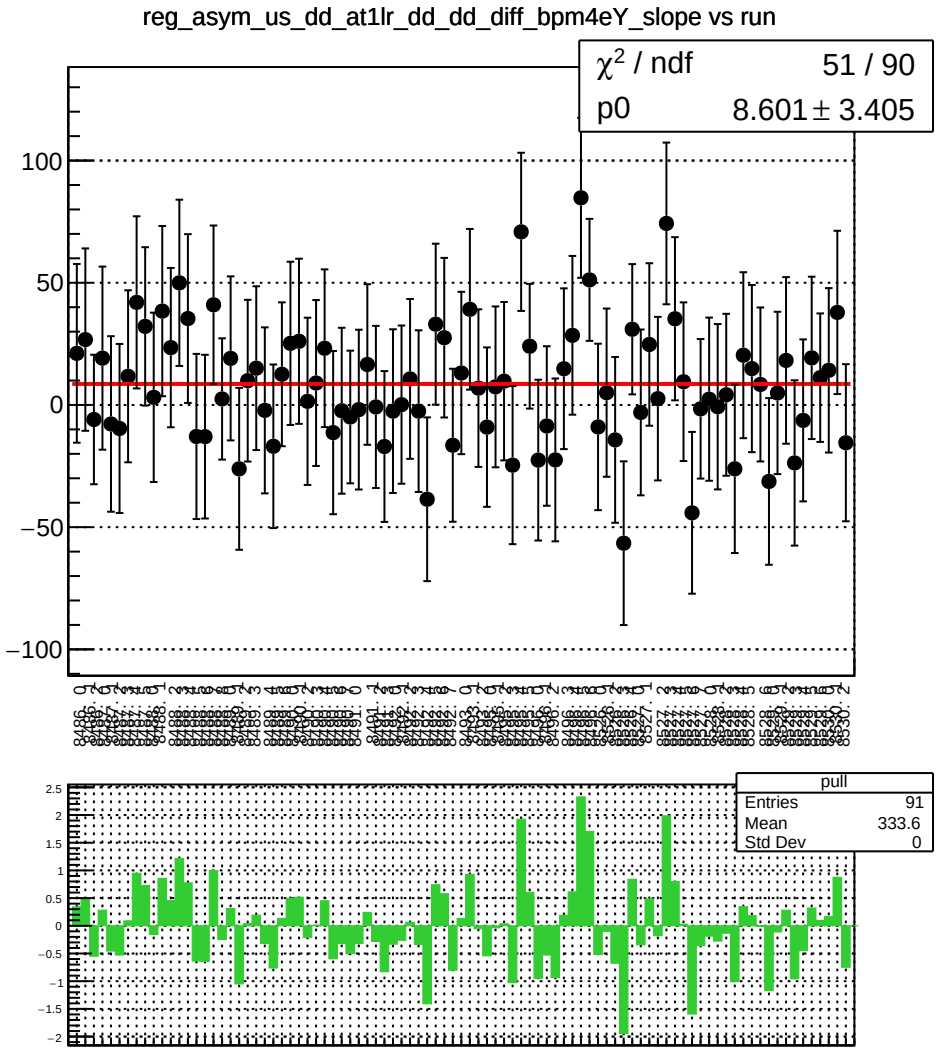

pull1D
Entries 91
Mean 0.01088
Std Dev 0.7562

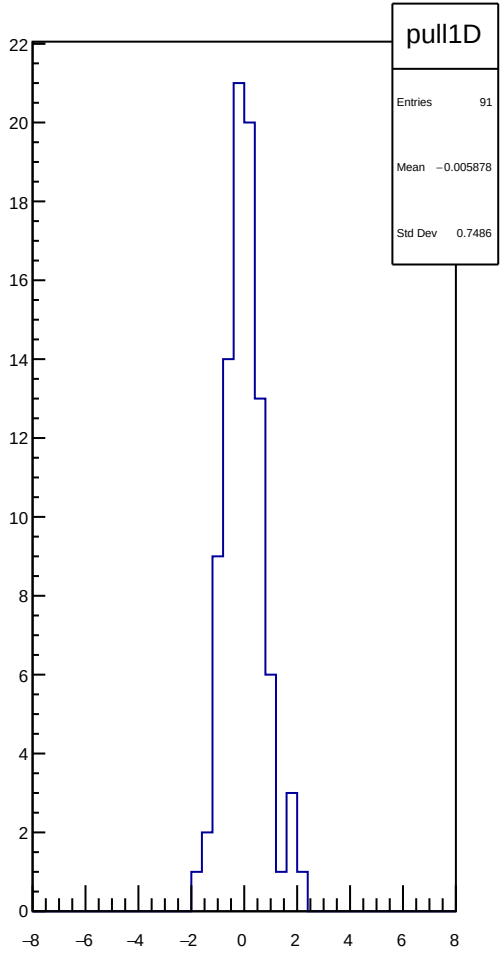

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 57.15 / 90
p0 −63.2 ± 2.005
pull
Entries 91
Mean 1102
Std Dev 0
pull1D
Entries 91
Mean −0.00301
Std Dev 0.7924

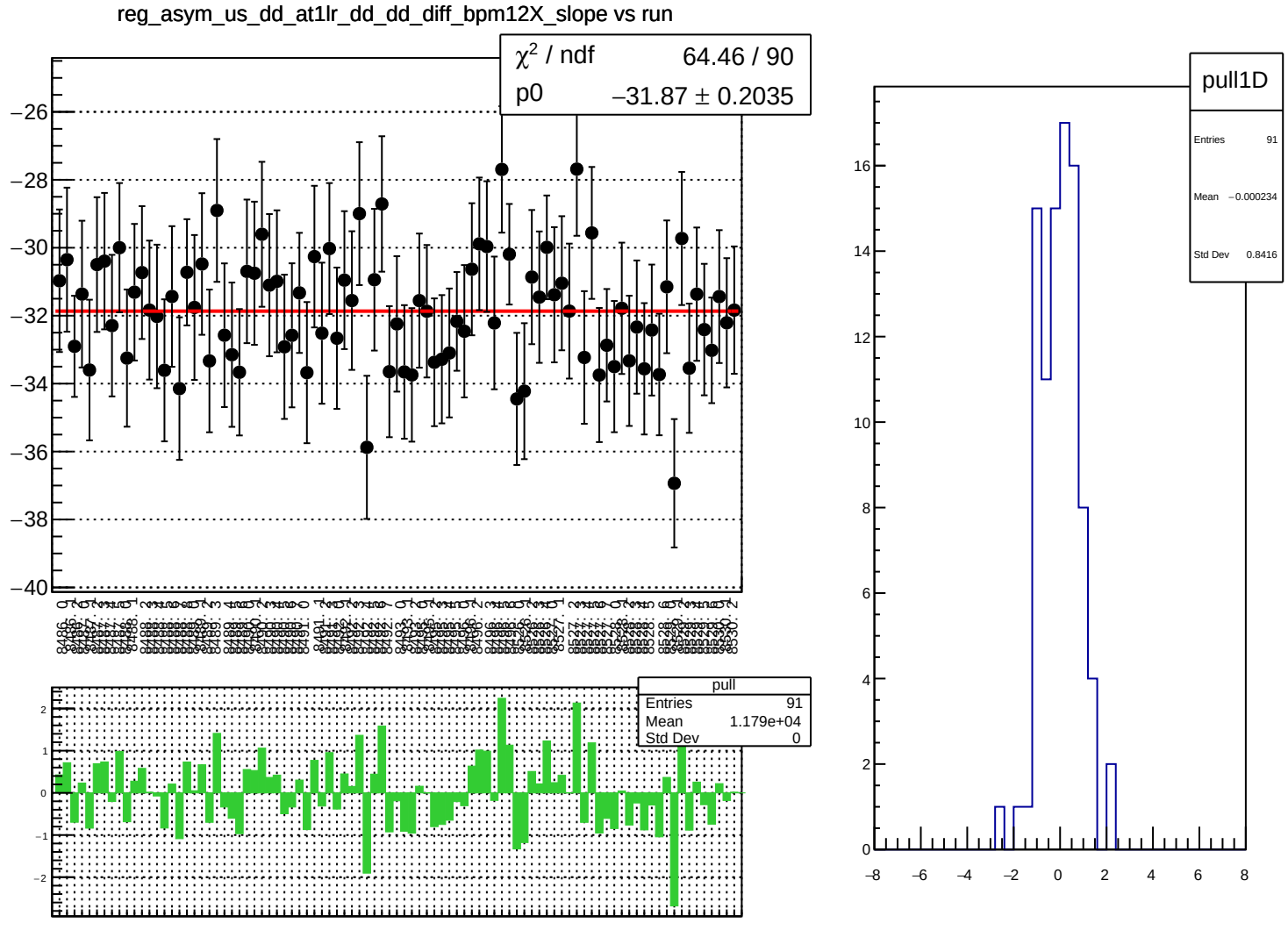

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 52.38 / 90
p0 0.4052 ± 3.215
100
50
0
−50
−100
pull
Entries 91
Mean 398.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

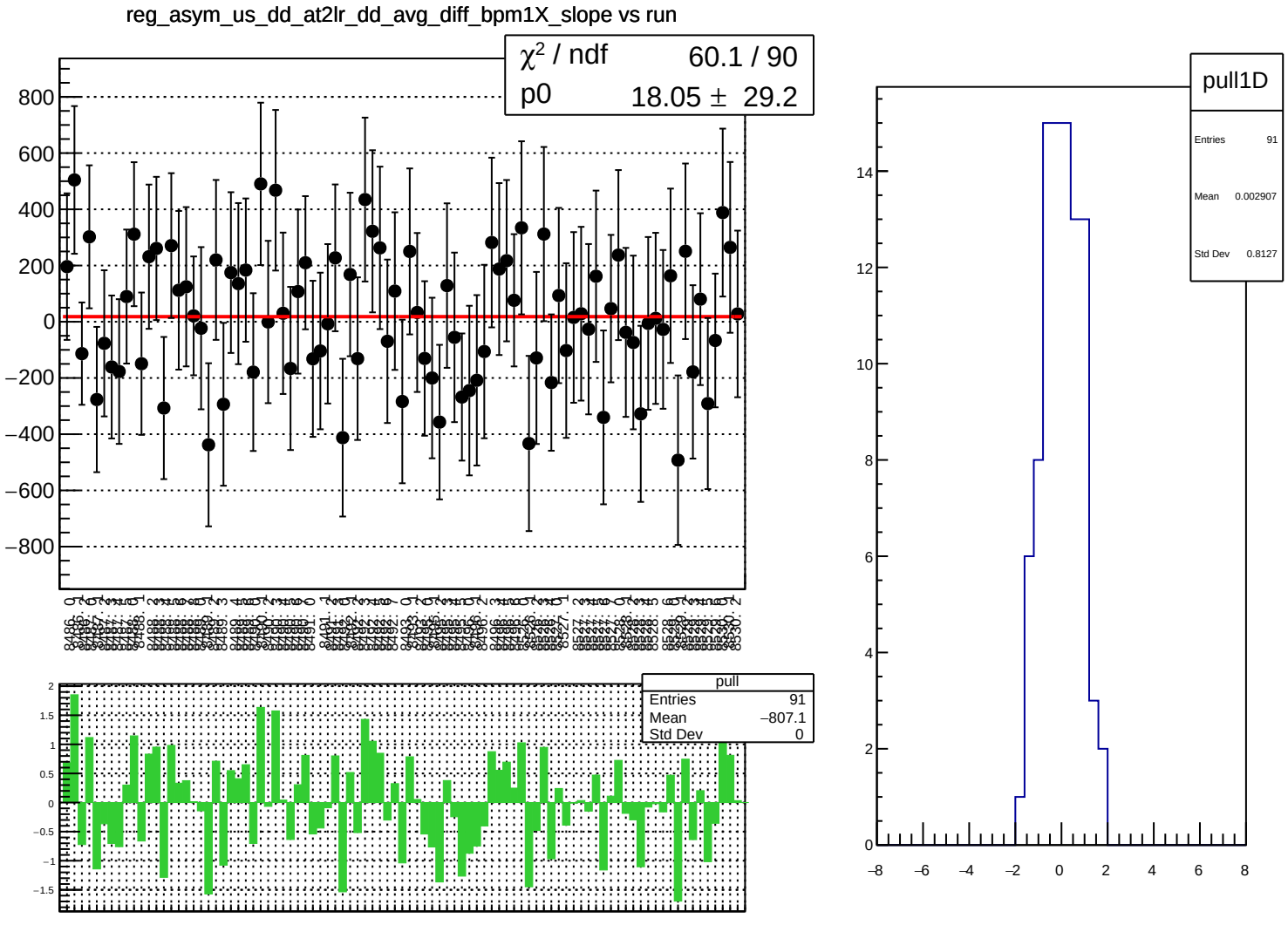

pull1D
Entries 91
Mean 0.004812
Std Dev 0.7586
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

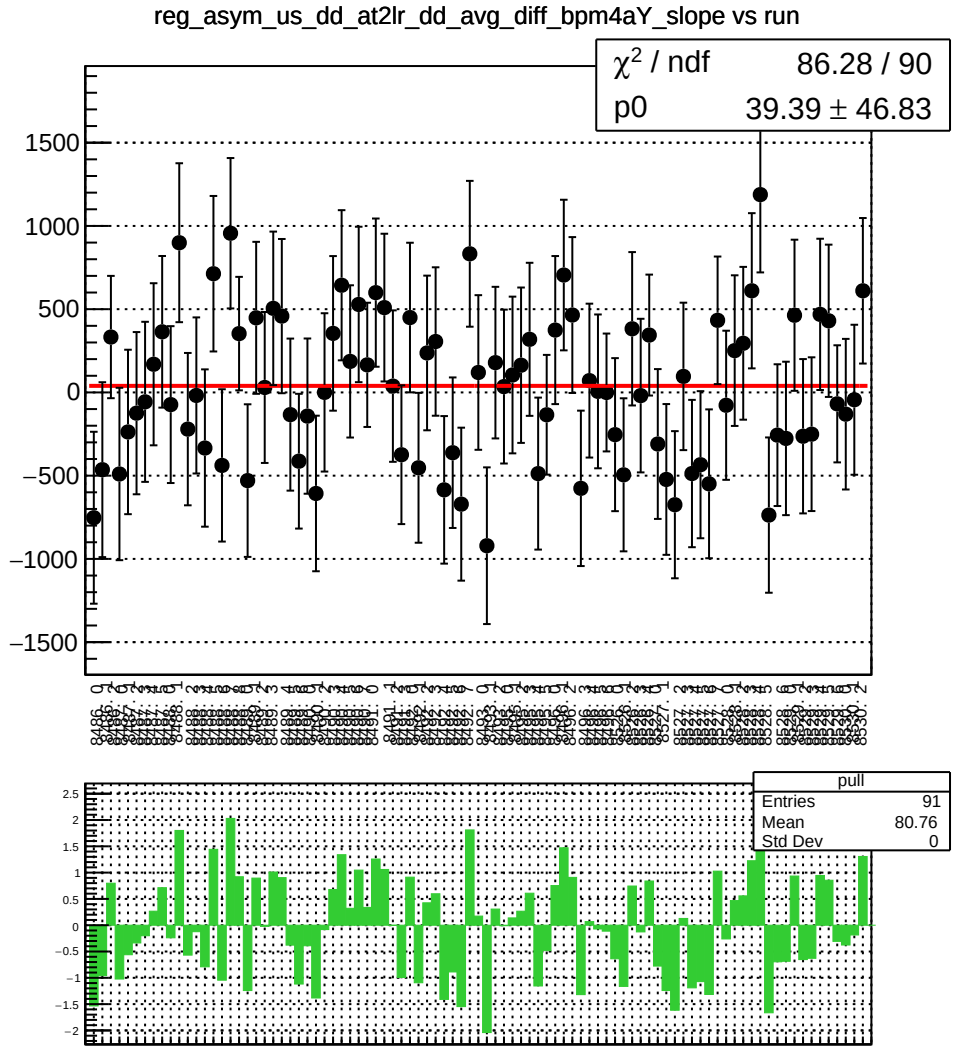

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 54.86 / 90
p0 −49.81 ± 2.179
pull
Entries 91
Mean −411.6
Std Dev 0
pull1D
Entries 91
Mean −0.002975
Std Dev 0.7764

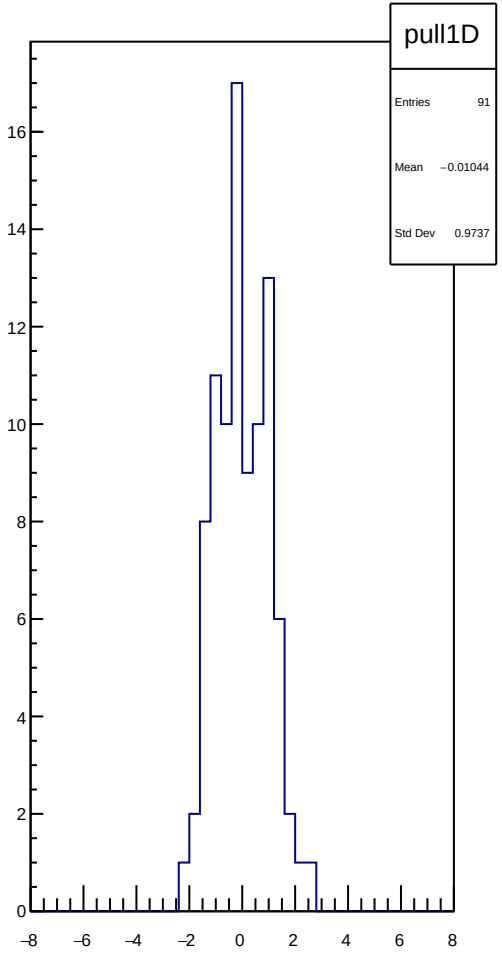

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 51 / 90
p0 8.601 ± 3.405
100
50
0
−50
−100
pull
Entries 91
Mean 333.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

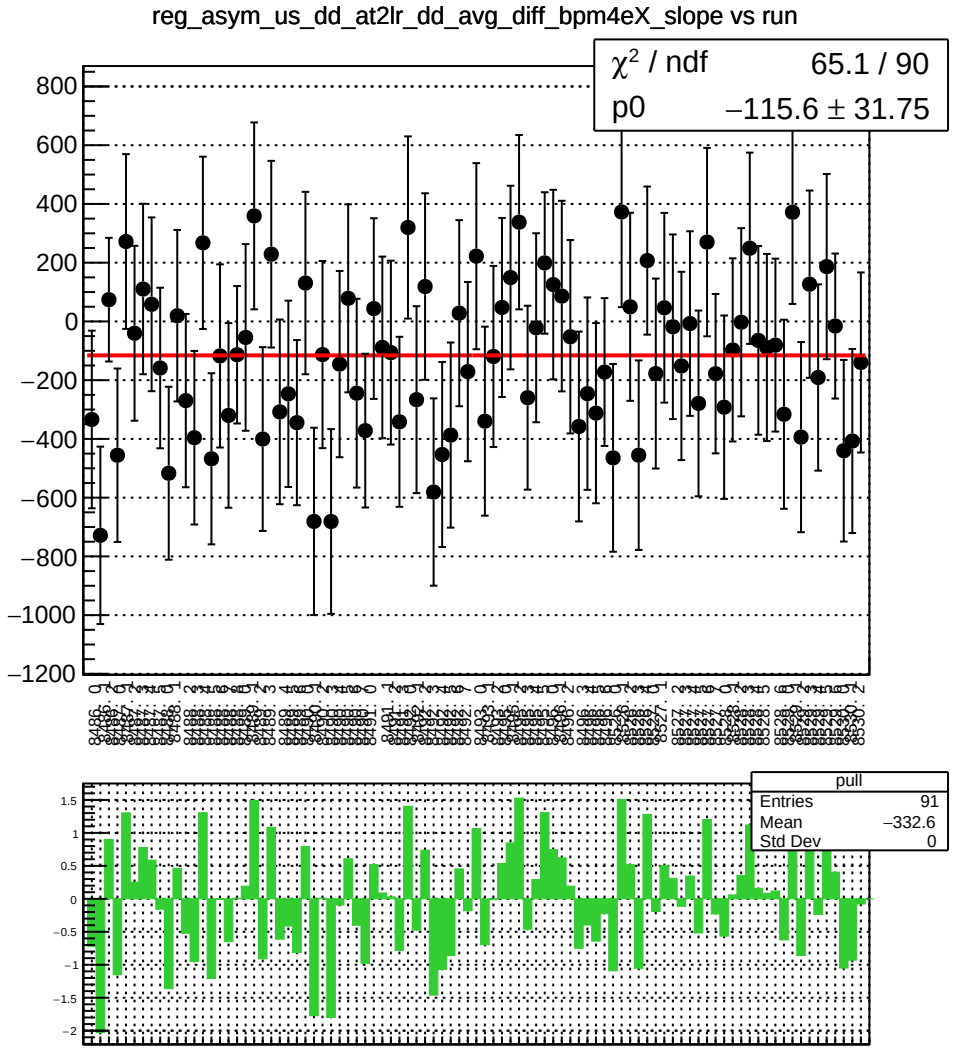

pull1D
Entries 91
Mean −0.005878
Std Dev 0.7486
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

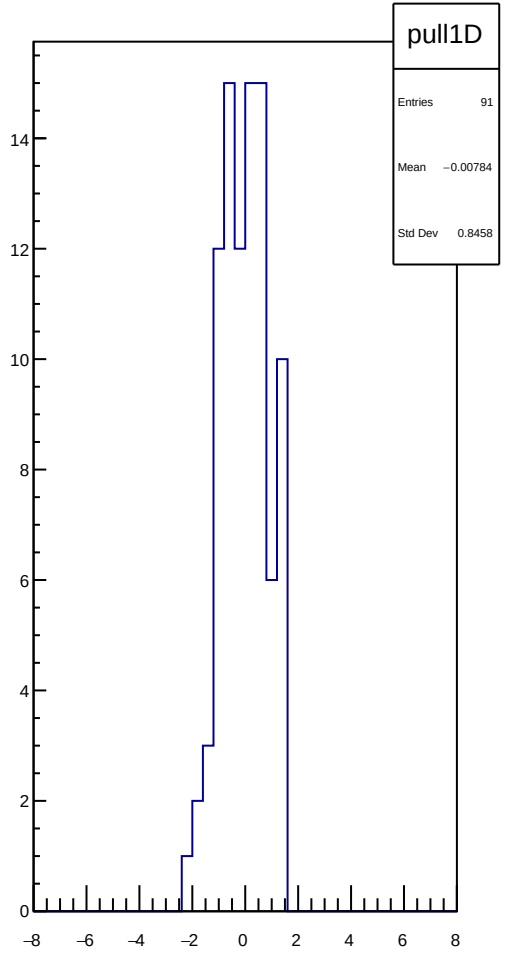

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 64.46 / 90
p0 −31.87 ± 0.2035
pull
Entries 91
Mean 1.179e+04
Std Dev 0
pull1D
Entries 91
Mean −0.000234
Std Dev 0.8416

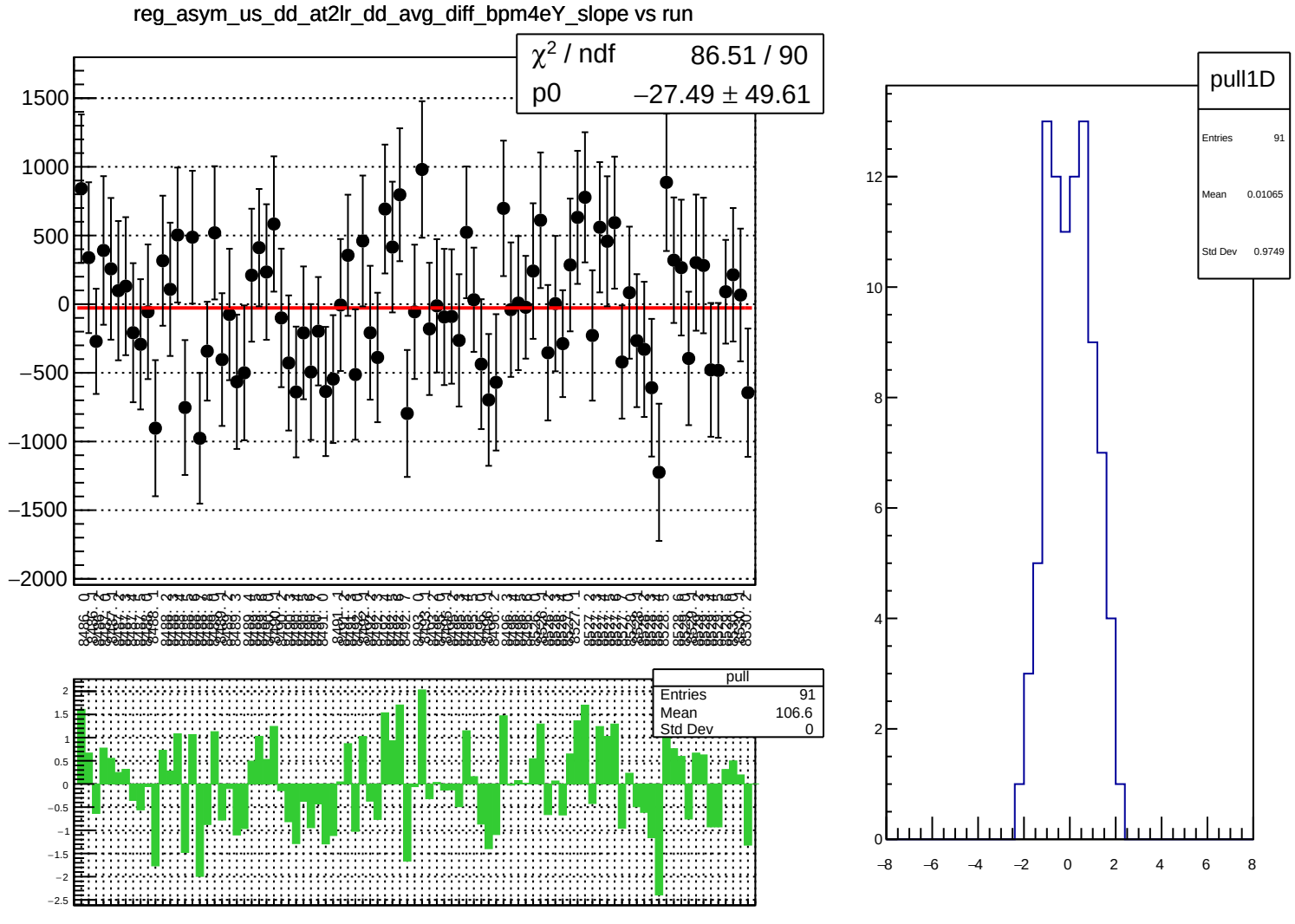

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 60.1 / 90
p0 18.05 ± 29.2
pull
Entries 91
Mean −807.1
Std Dev 0
pull1D
Entries 91
Mean 0.002907
Std Dev 0.8127

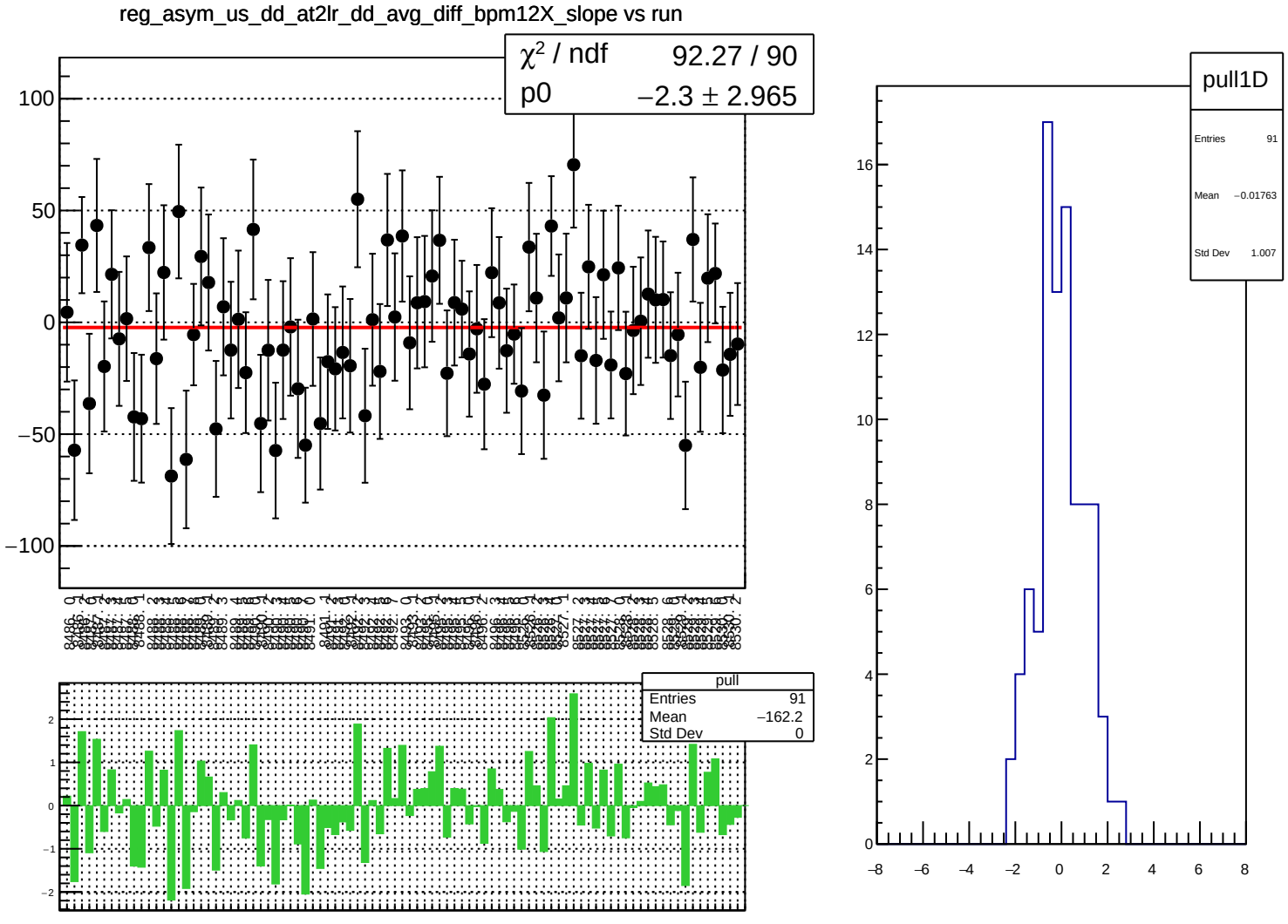

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 86.28 / 90
p0 39.39 ± 46.83
pull
Entries 91
Mean 80.76
Std Dev 0

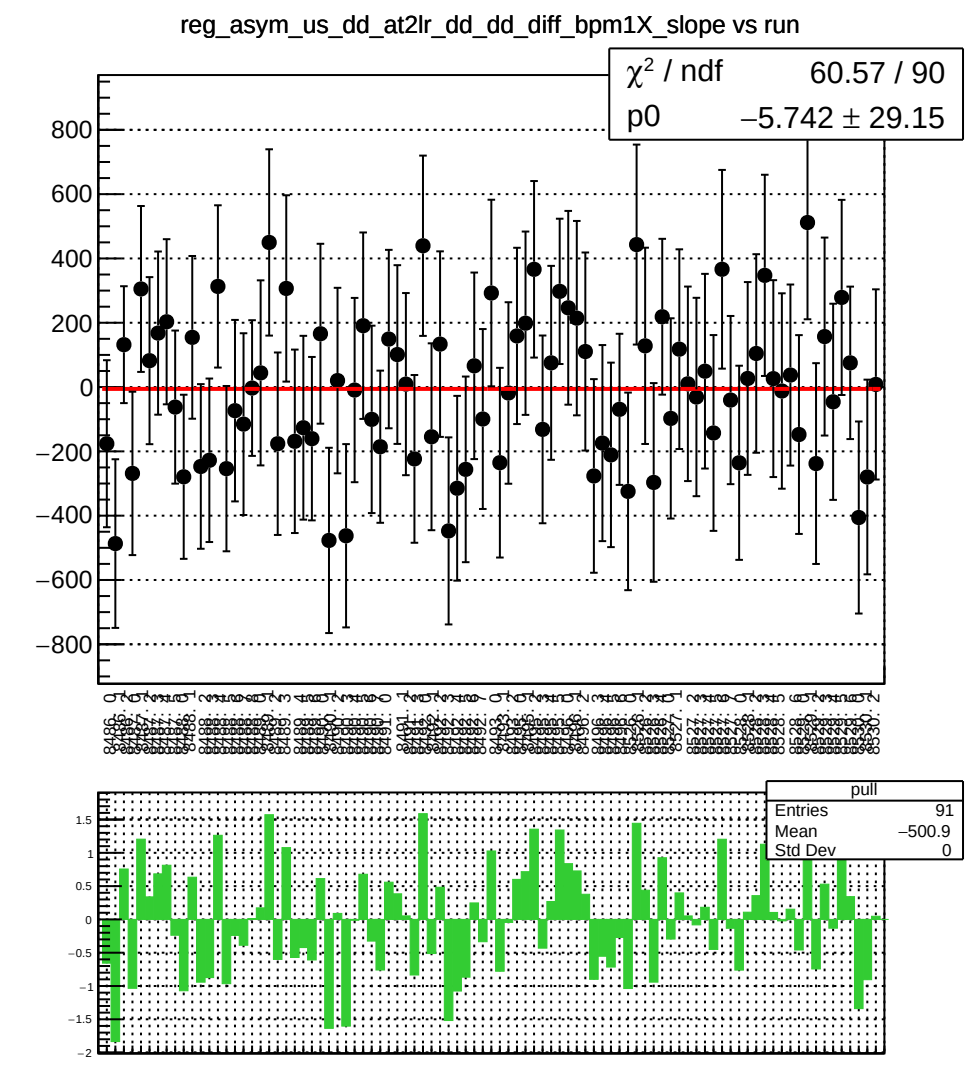

pull1D
Entries 91
Mean −0.01044
Std Dev 0.9737

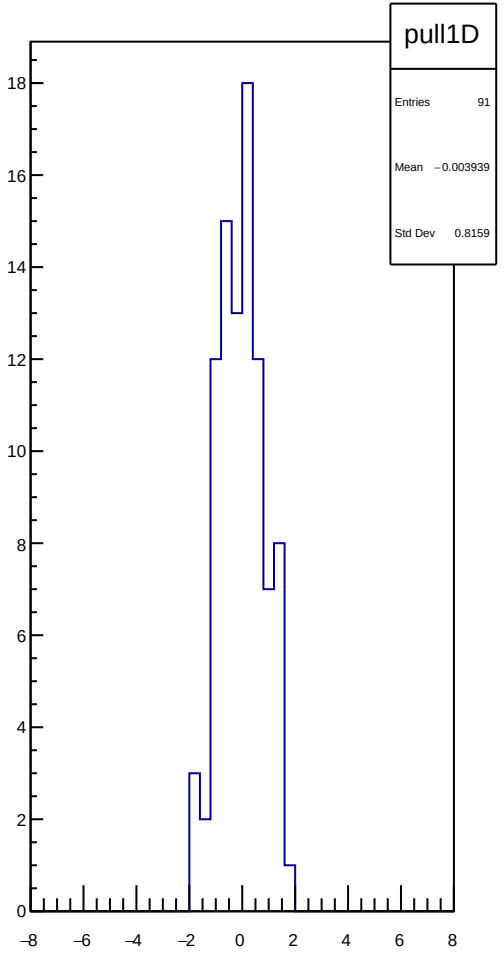

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 65.1 / 90
p0 −115.6 ± 31.75
pull
Entries 91
Mean −332.6
Std Dev 0

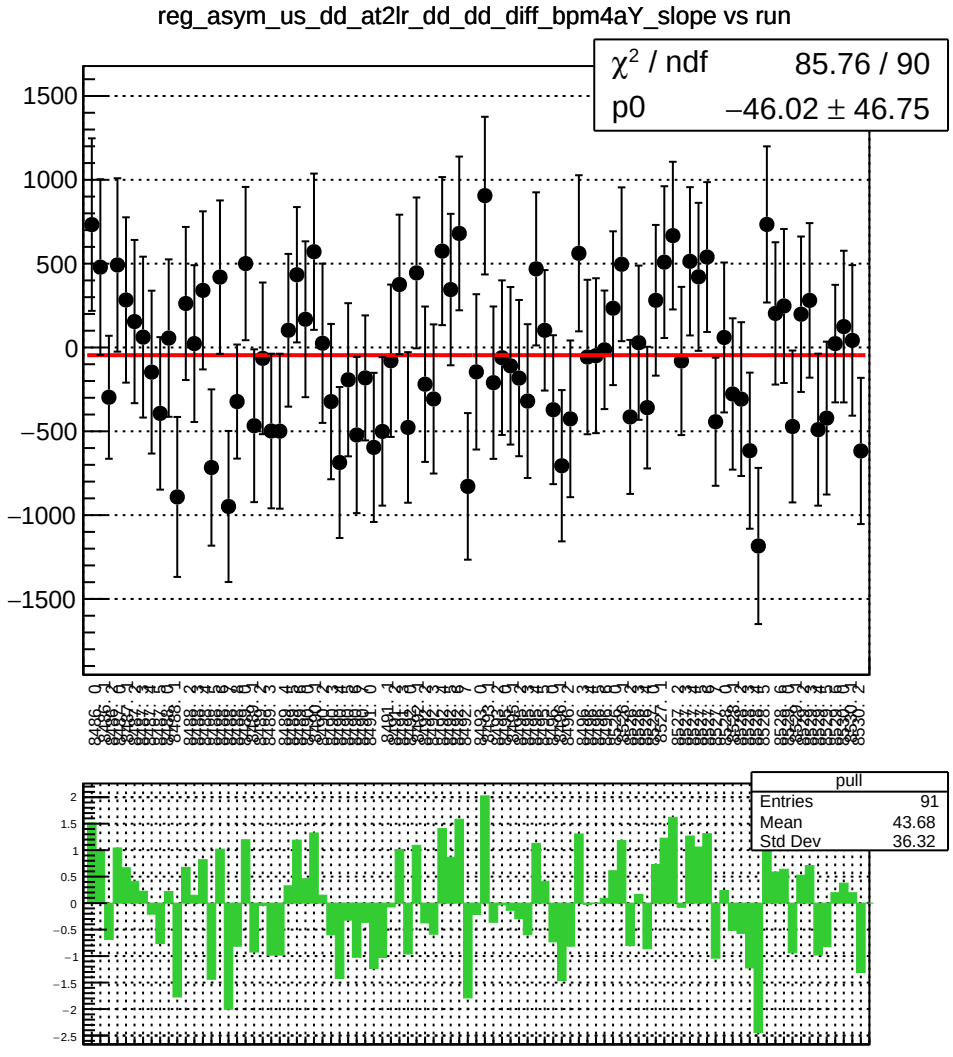

pull1D
Entries 91
Mean −0.00784
Std Dev 0.8458

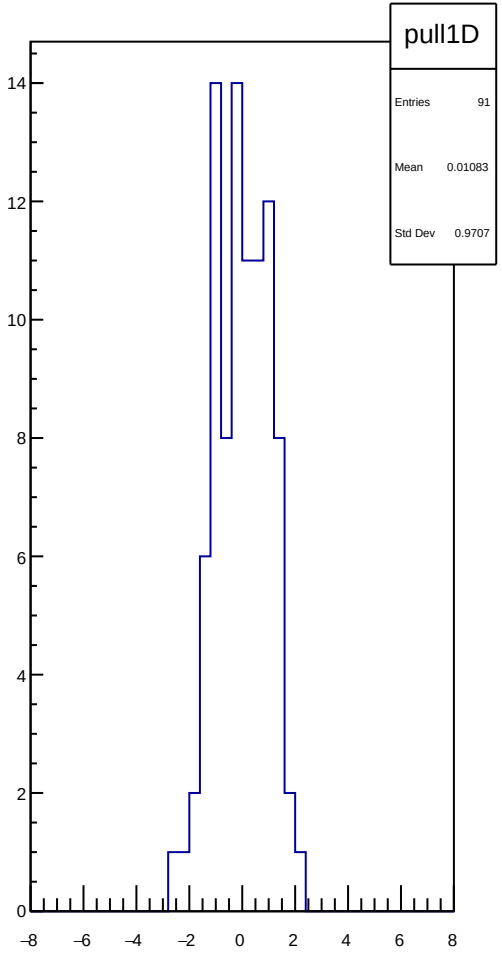

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 86.51 / 90
p0 −27.49 ± 49.61
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 91
Mean 106.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 91
Mean 0.01065
Std Dev 0.9749
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

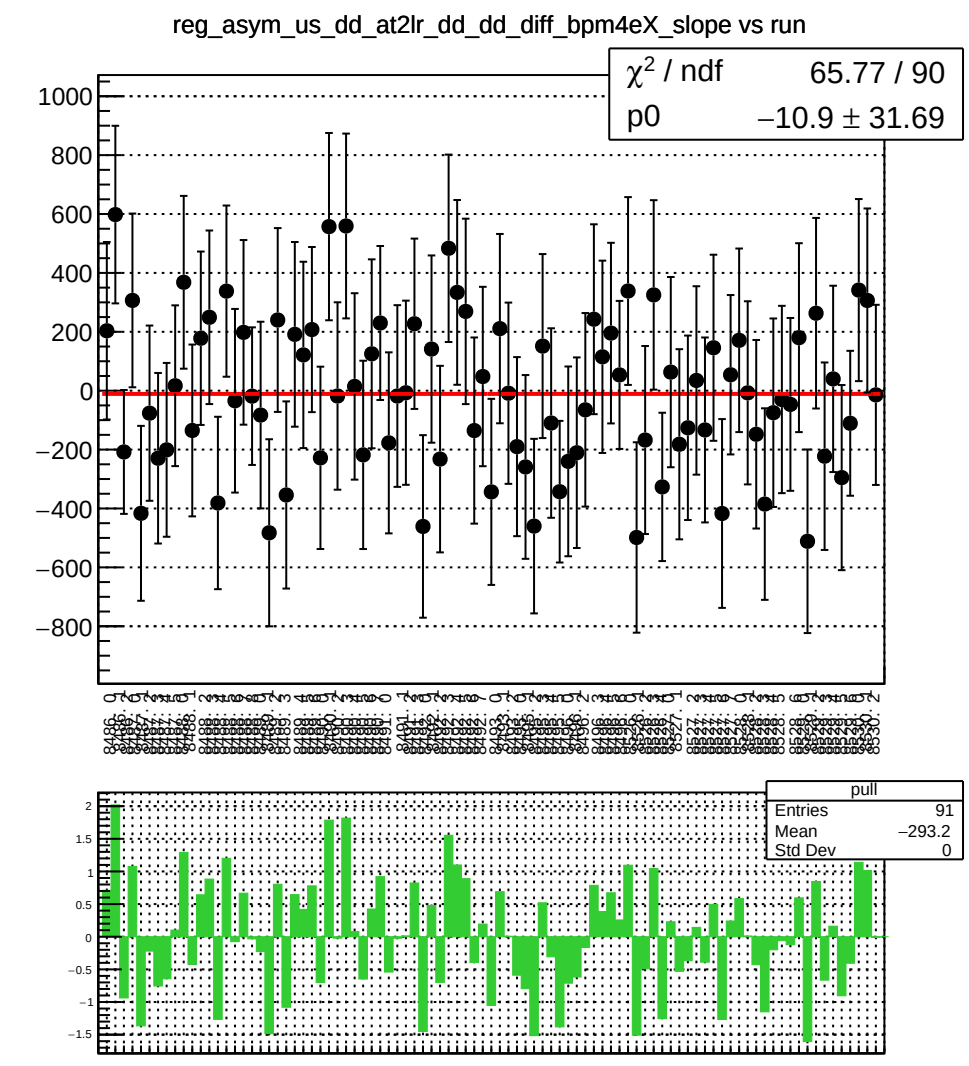

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 92.27 / 90
p0 −2.3 ± 2.965
100
50
0
−50
−100
pull
Entries 91
Mean −162.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.01763
Std Dev 1.007
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

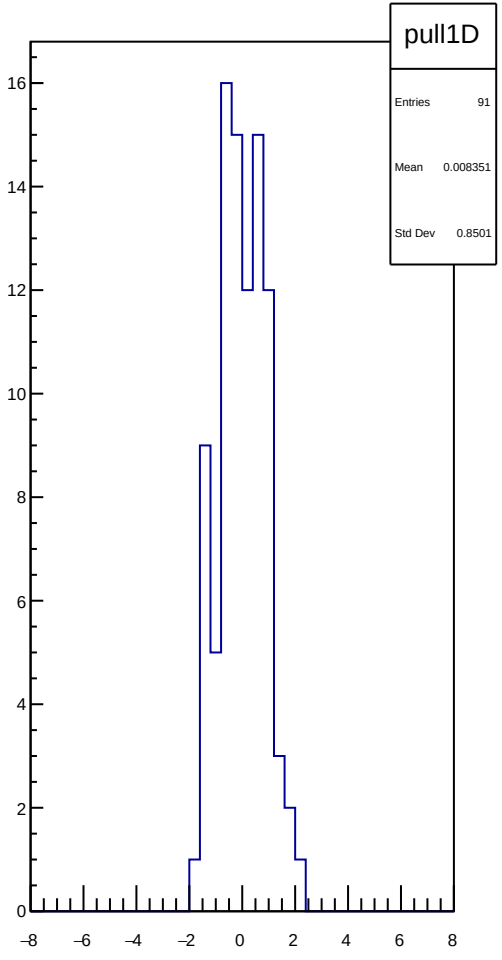

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 60.57 / 90
p0 −5.742 ± 29.15
pull
Entries 91
Mean −500.9
Std Dev 0

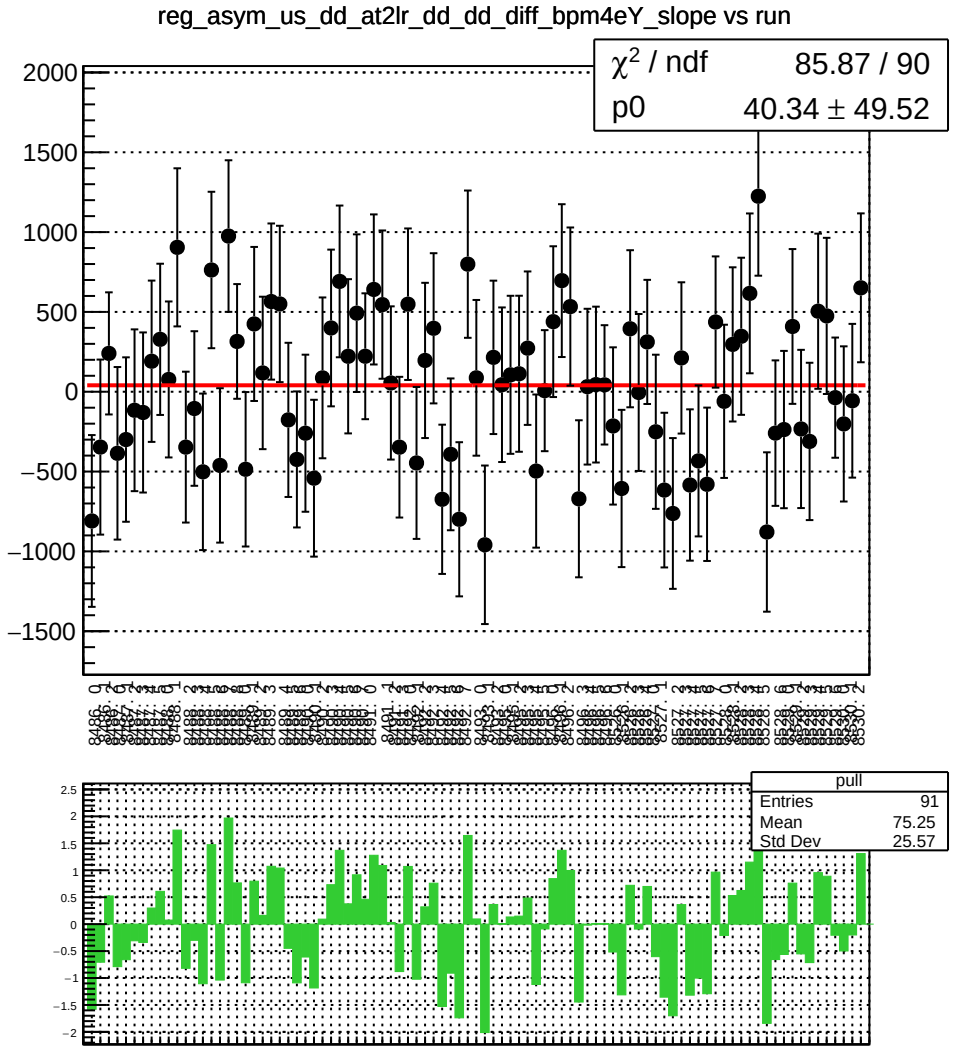

pull1D
Entries 91
Mean −0.003939
Std Dev 0.8159

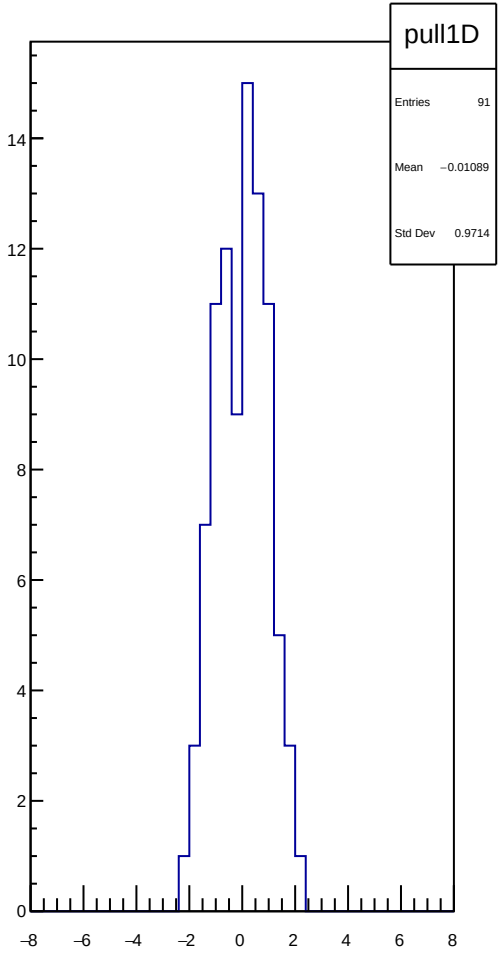

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 85.76 / 90
p0 −46.02 ± 46.75
pull
Entries 91
Mean 43.68
Std Dev 36.32

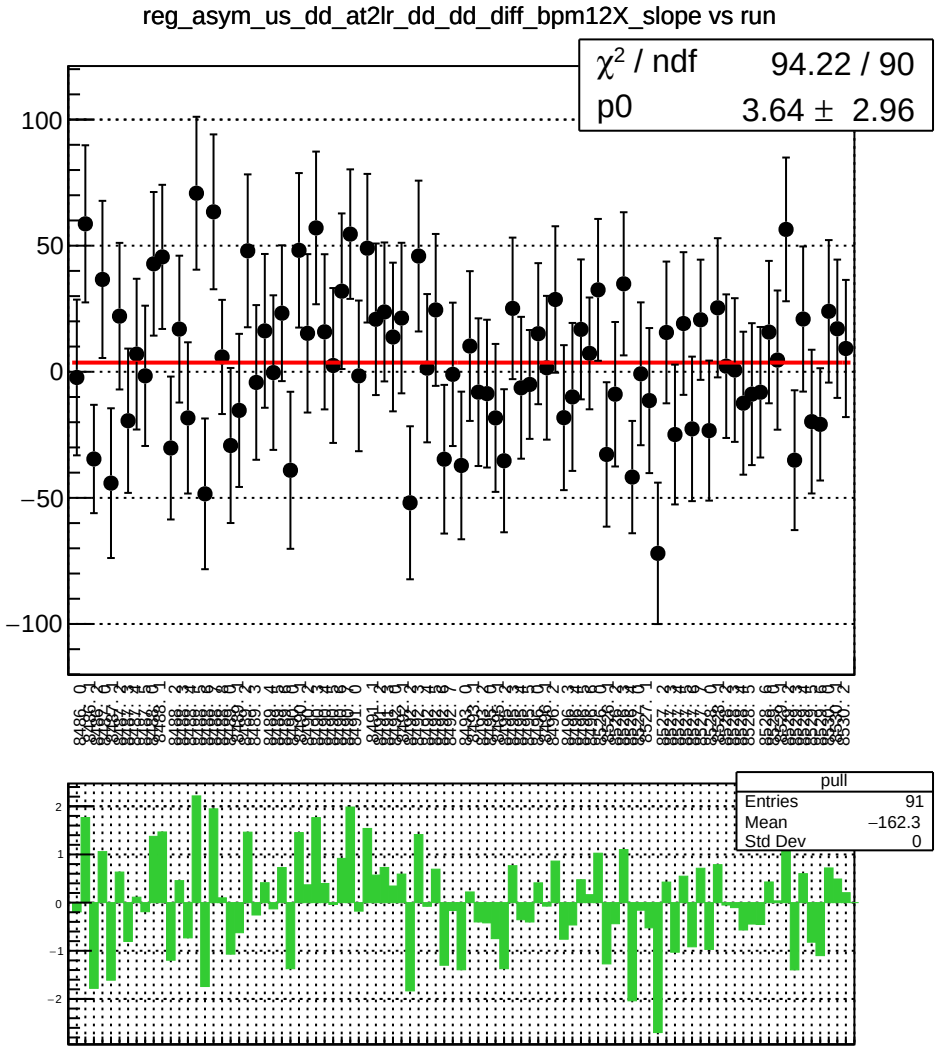

pull1D
Entries 91
Mean 0.01083
Std Dev 0.9707

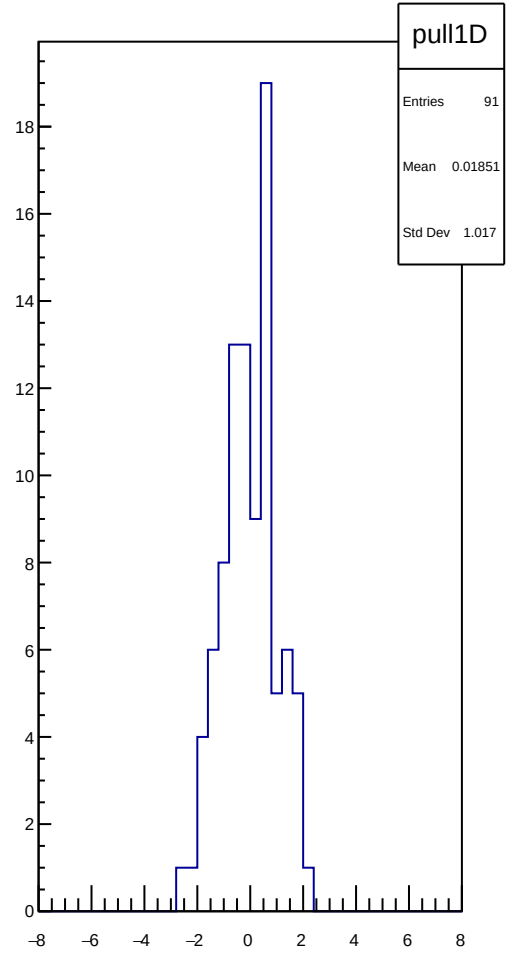

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 65.77 / 90
p0 −10.9 ± 31.69
pull
Entries 91
Mean −293.2
Std Dev 0

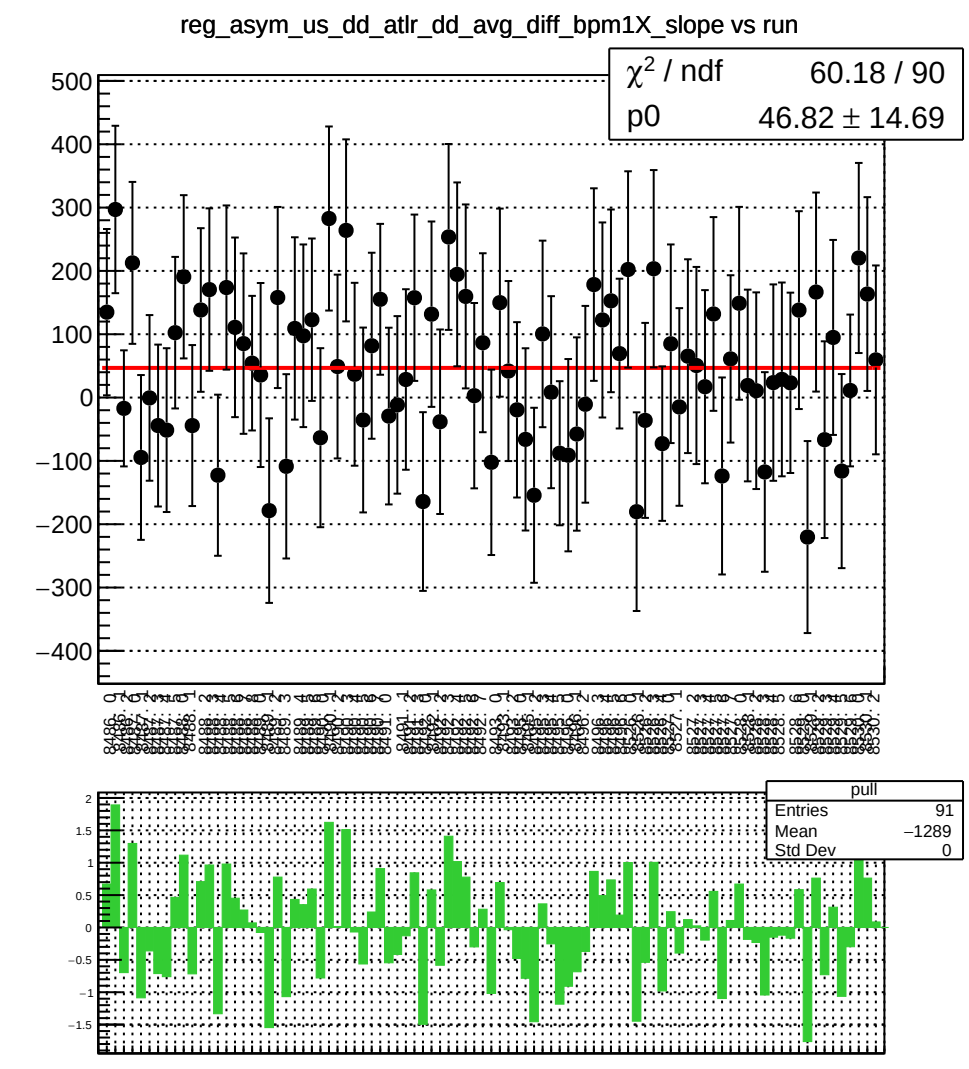

pull1D
Entries 91
Mean 0.008351
Std Dev 0.8501

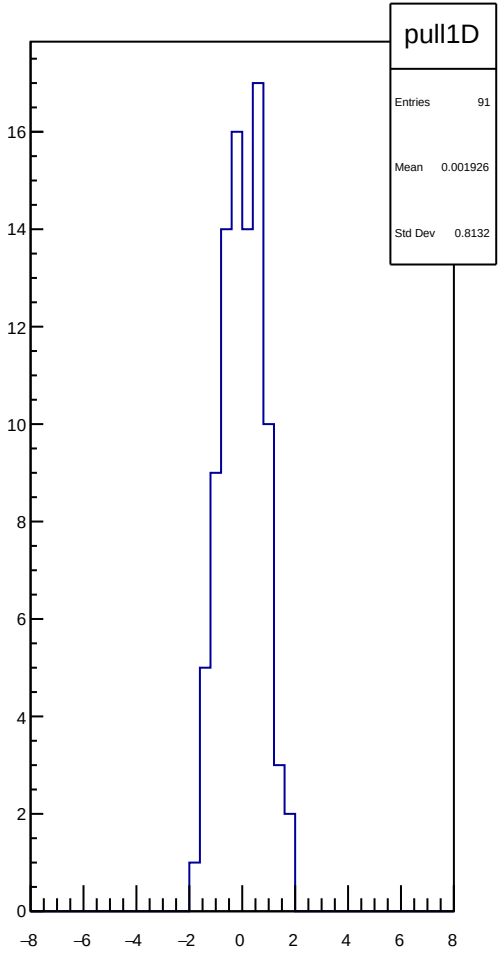

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 85.87 / 90
p0 40.34 ± 49.52
pull
Entries 91
Mean 75.25
Std Dev 25.57

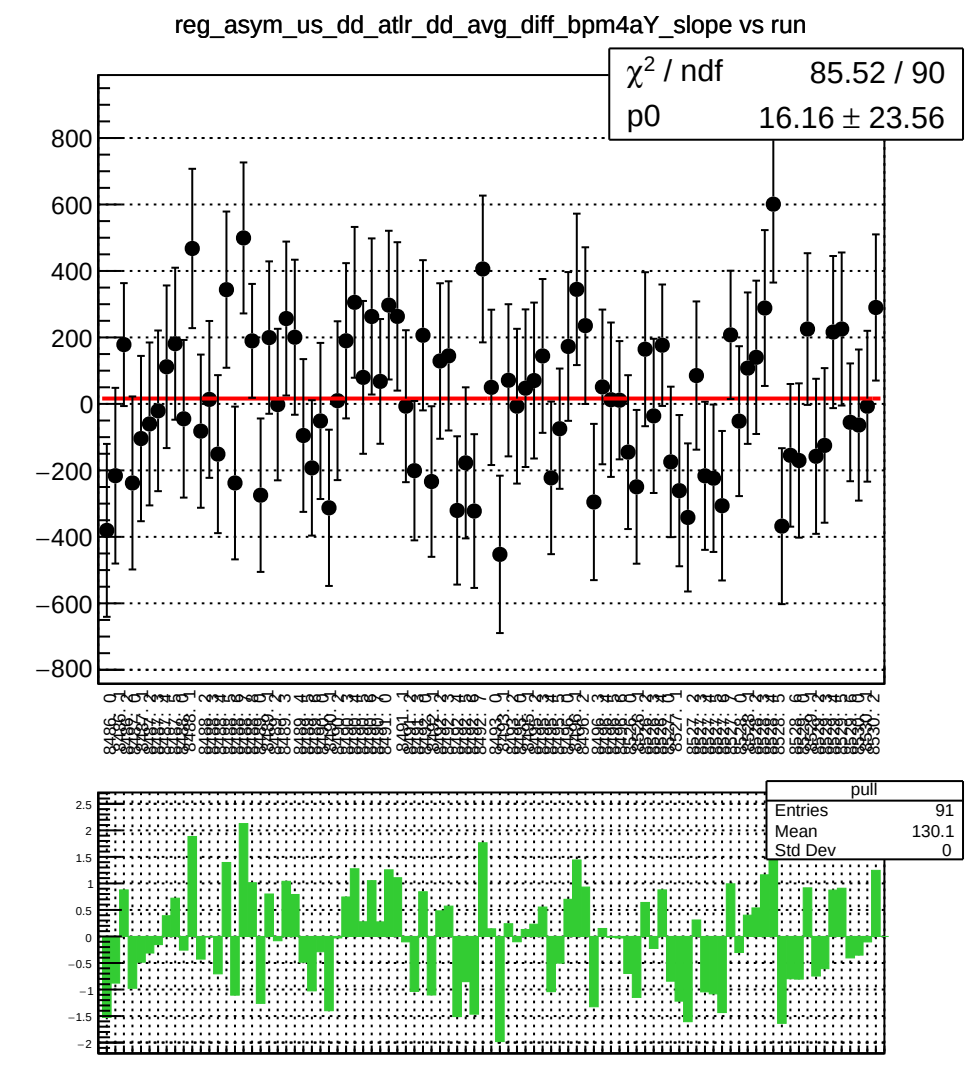

pull1D
Entries 91
Mean −0.01089
Std Dev 0.9714

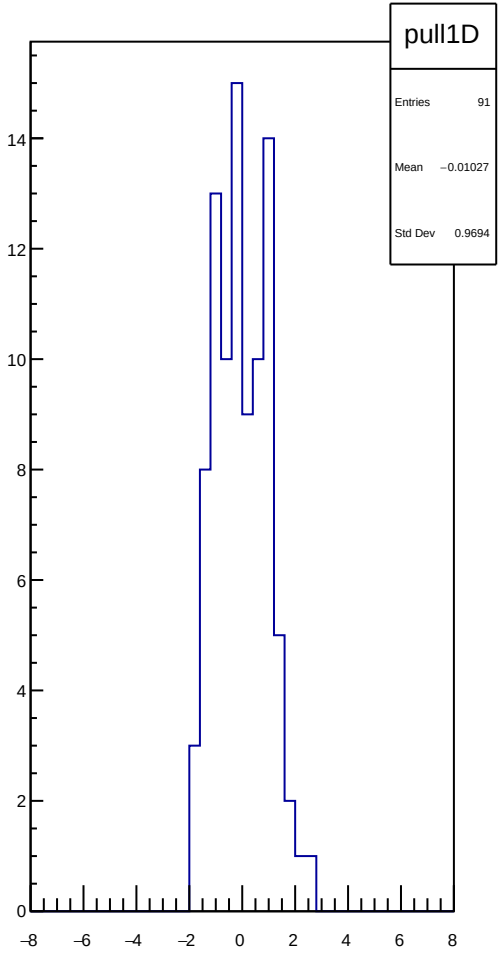

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 94.22 / 90
p0 3.64 ± 2.96
100
50
0
−50
−100
pull
Entries 91
Mean −162.3
Std Dev 0
2
1
0
−1
−2

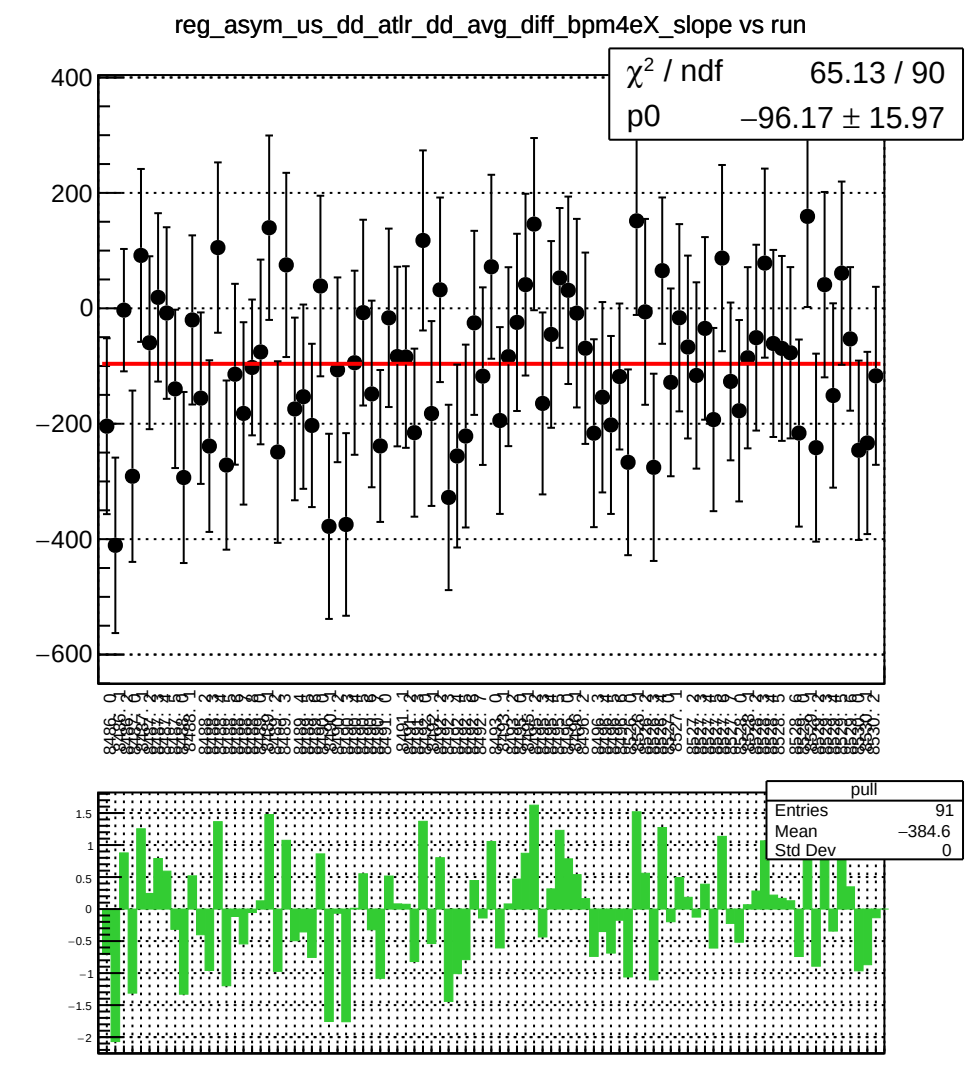

pull1D
Entries 91
Mean 0.01851
Std Dev 1.017
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

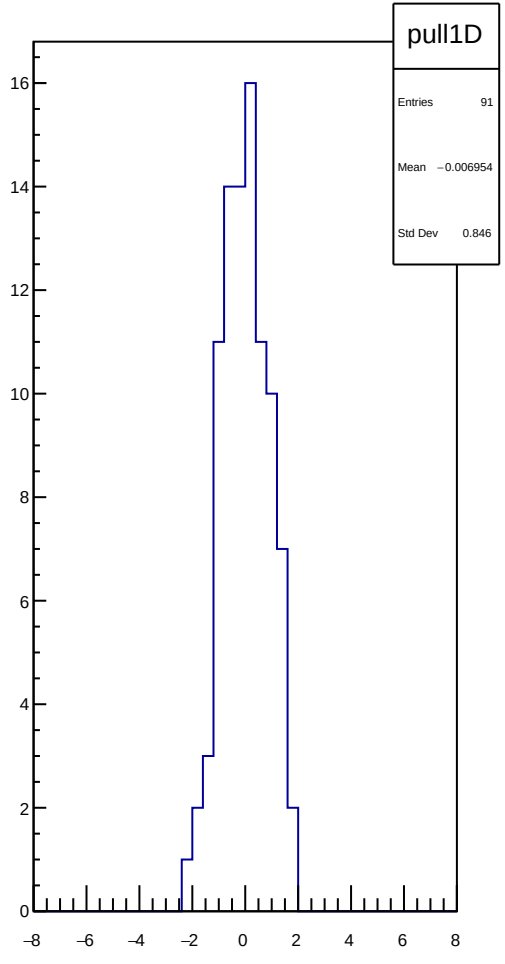

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 60.18 / 90
p0 46.82 ± 14.69
pull
Entries 91
Mean −1289
Std Dev 0

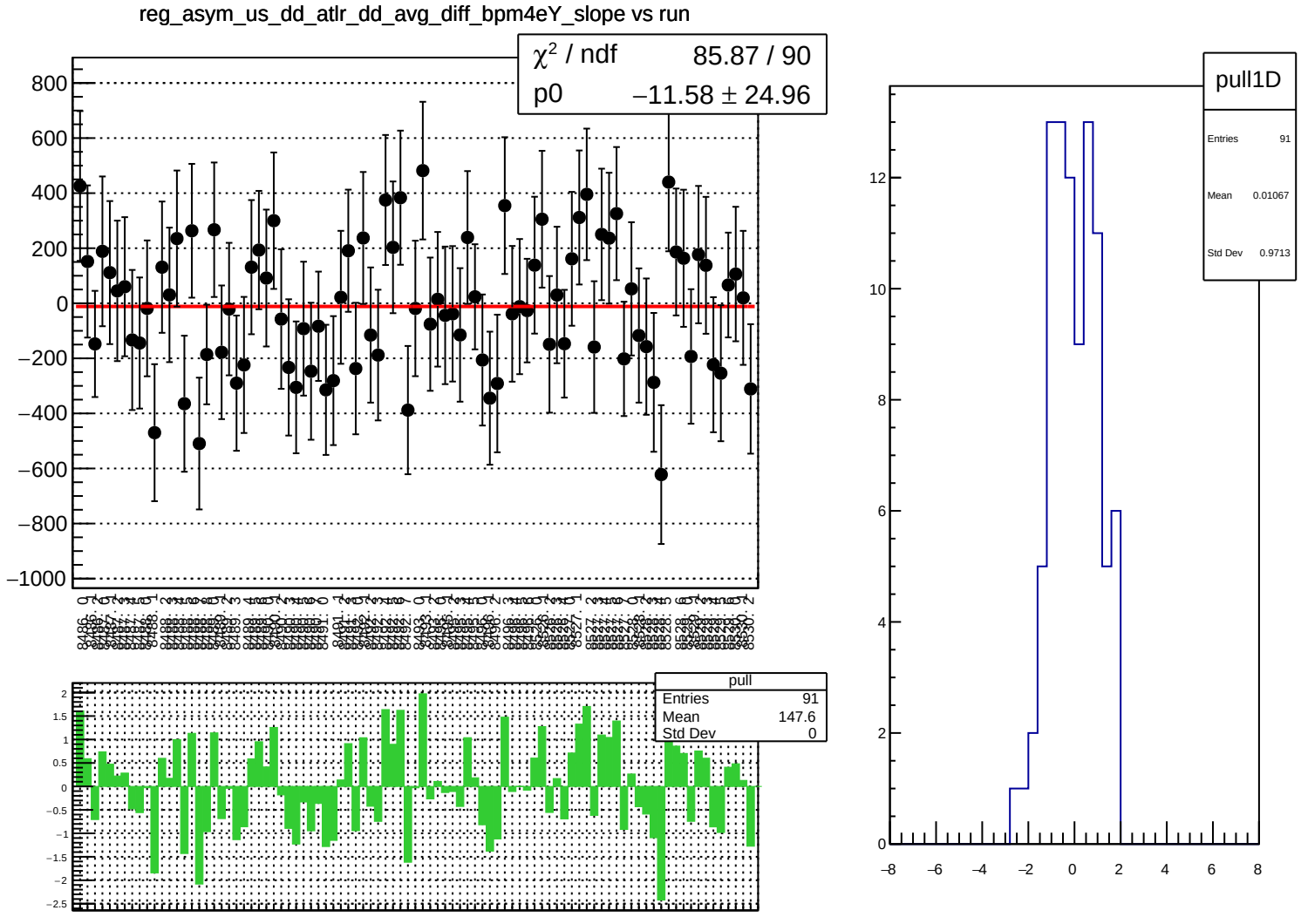

pull1D
Entries 91
Mean 0.001926
Std Dev 0.8132

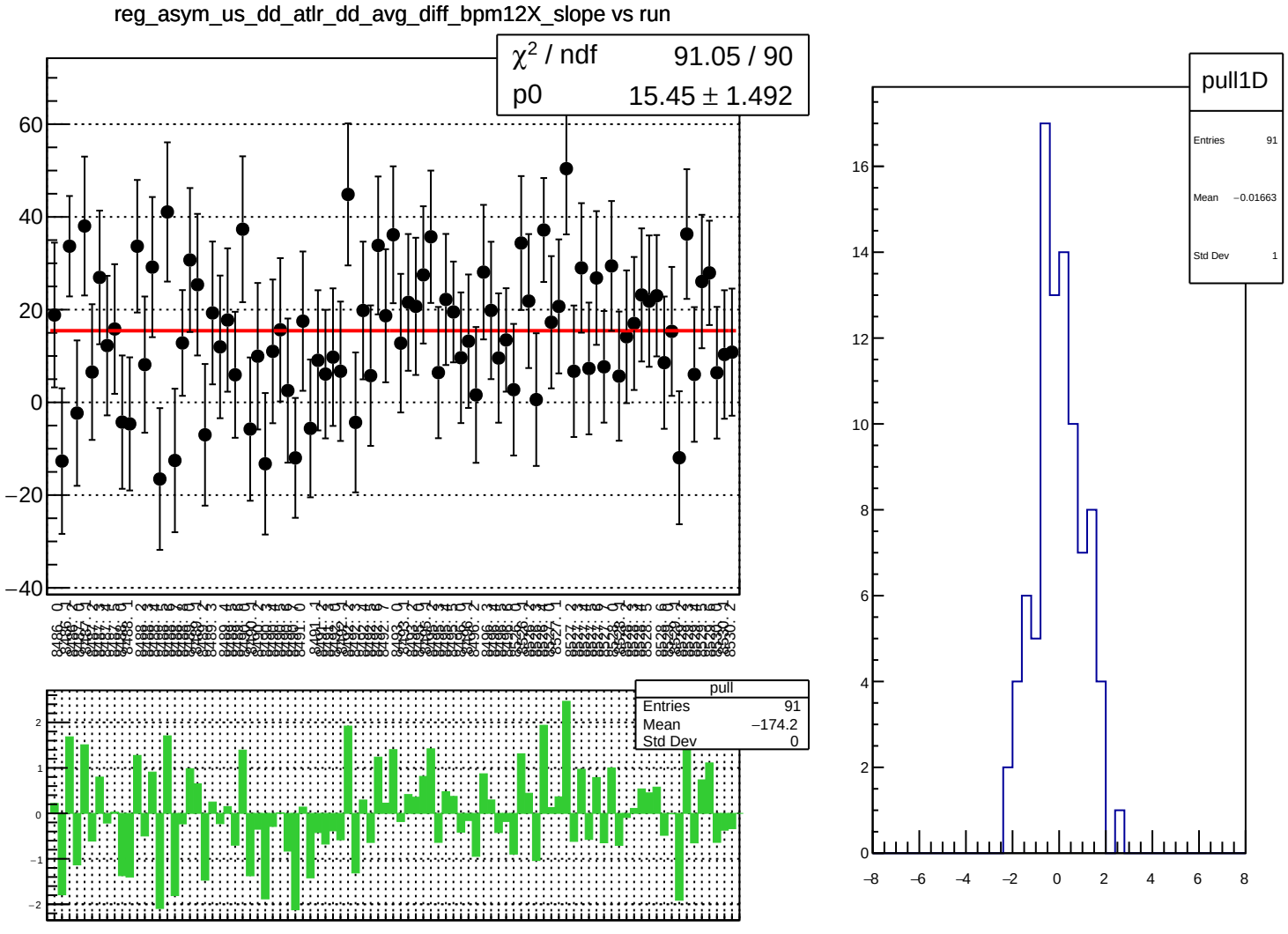

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 85.52 / 90
p0 16.16 ± 23.56
pull
Entries 91
Mean 130.1
Std Dev 0

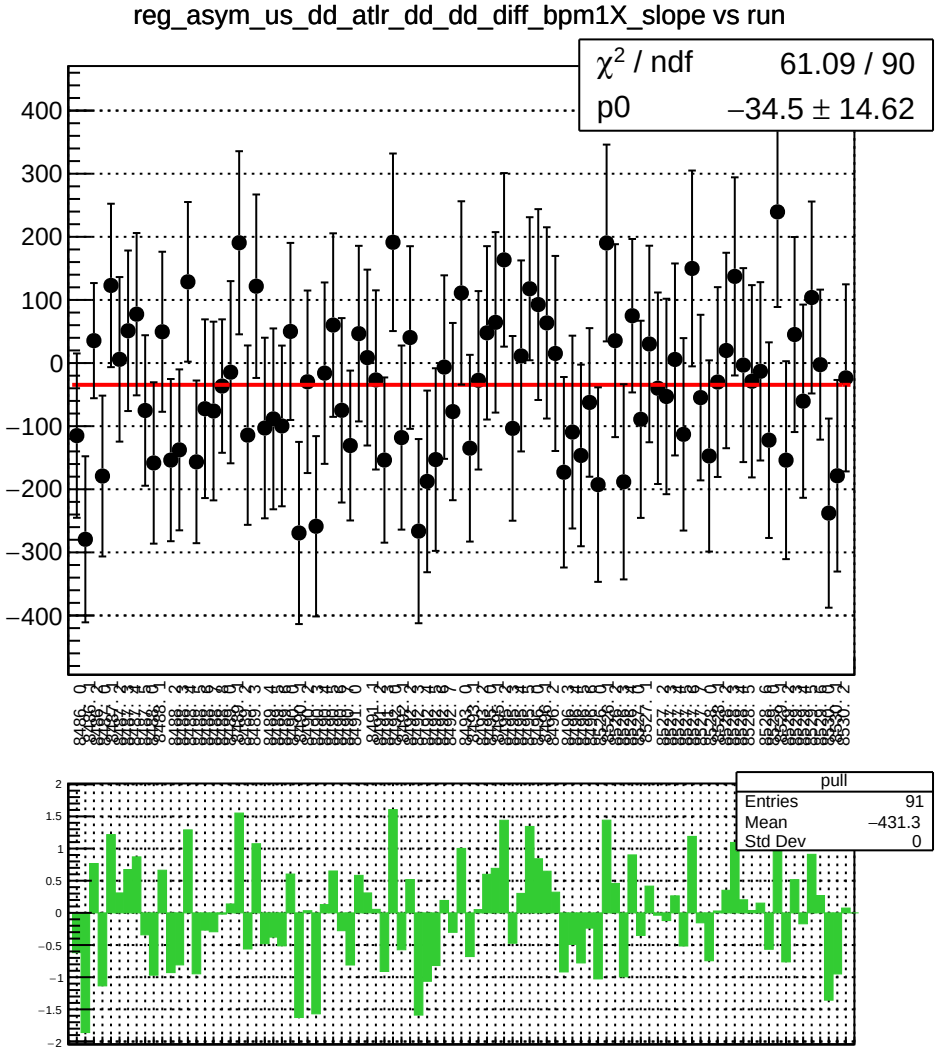

pull1D
Entries 91
Mean −0.01027
Std Dev 0.9694

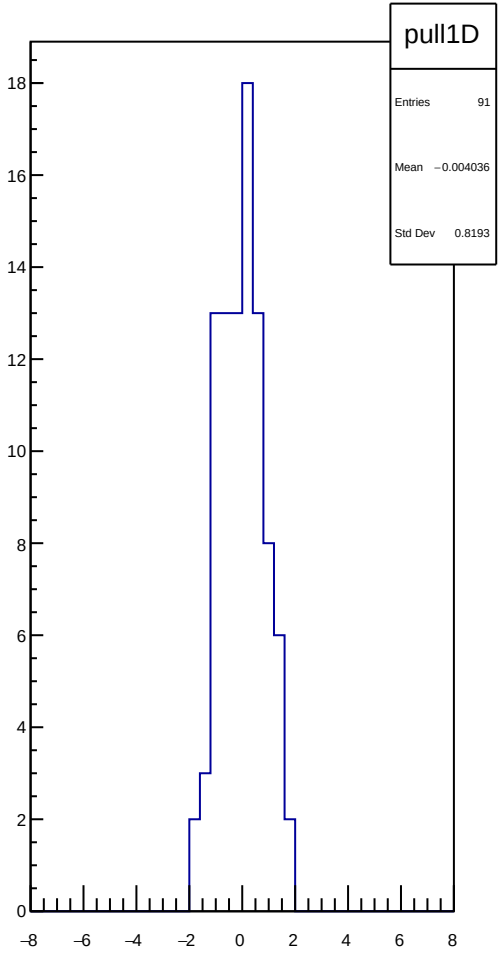

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 65.13 / 90
p0 −96.17 ± 15.97
400
200
0
−200
−400
−600
pull
Entries 91
Mean −384.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

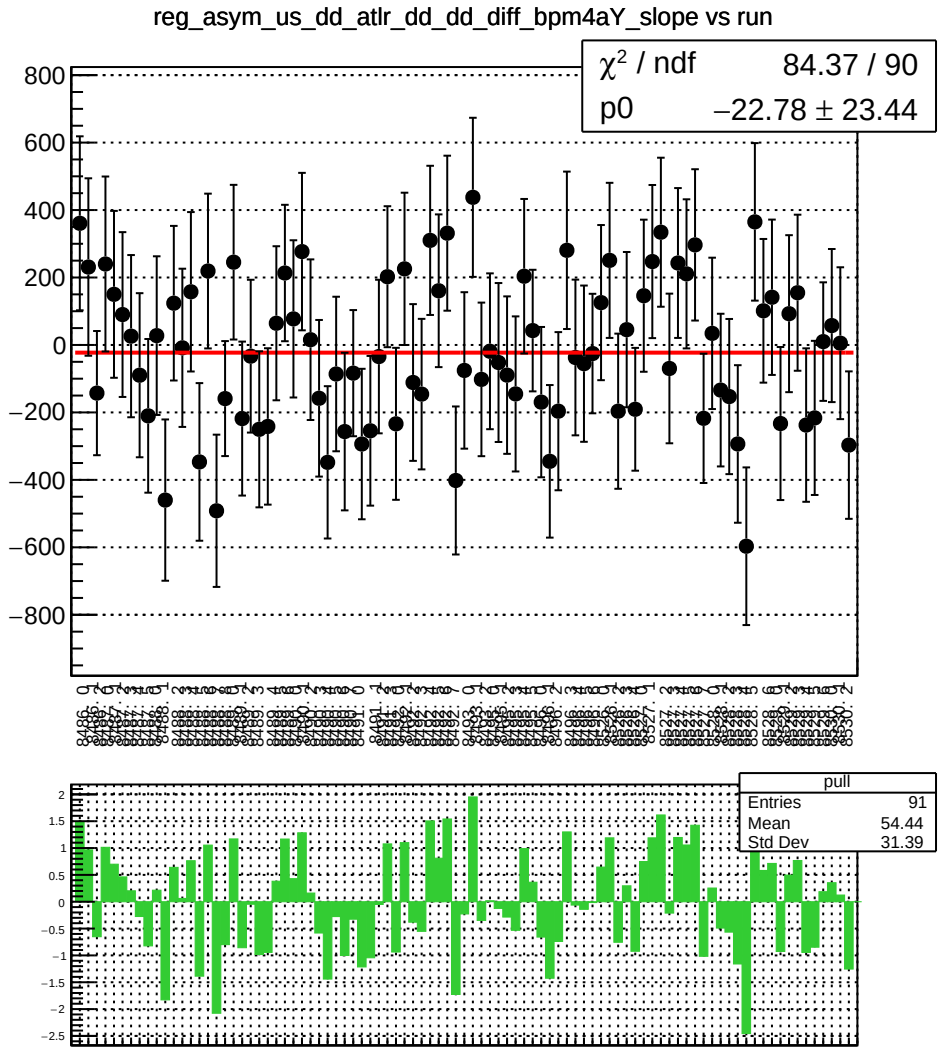

pull1D
Entries 91
Mean −0.006954
Std Dev 0.846
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

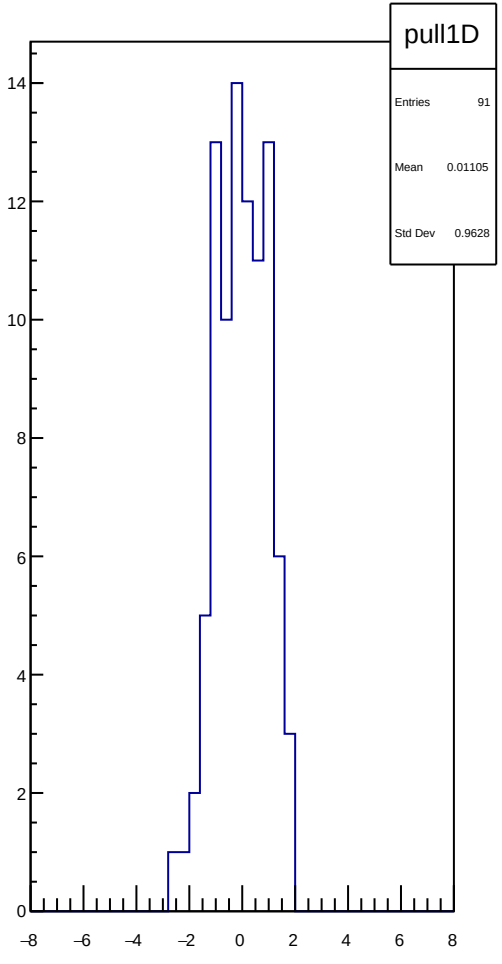

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 85.87 / 90
p0 −11.58 ± 24.96
pull
Entries 91
Mean 147.6
Std Dev 0
pull1D
Entries 91
Mean 0.01067
Std Dev 0.9713

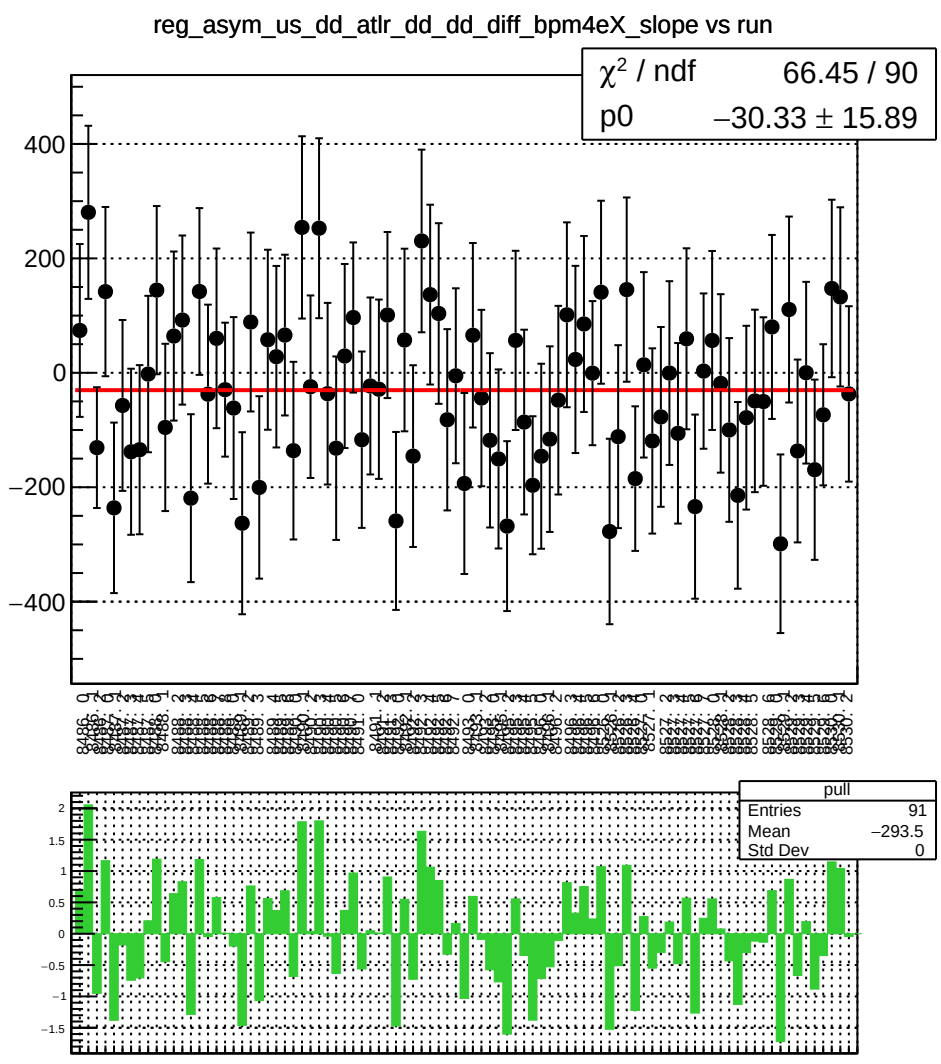

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 91.05 / 90
p0 15.45 ± 1.492
pull
Entries 91
Mean −174.2
Std Dev 0
pull1D
Entries 91
Mean −0.01663
Std Dev 1

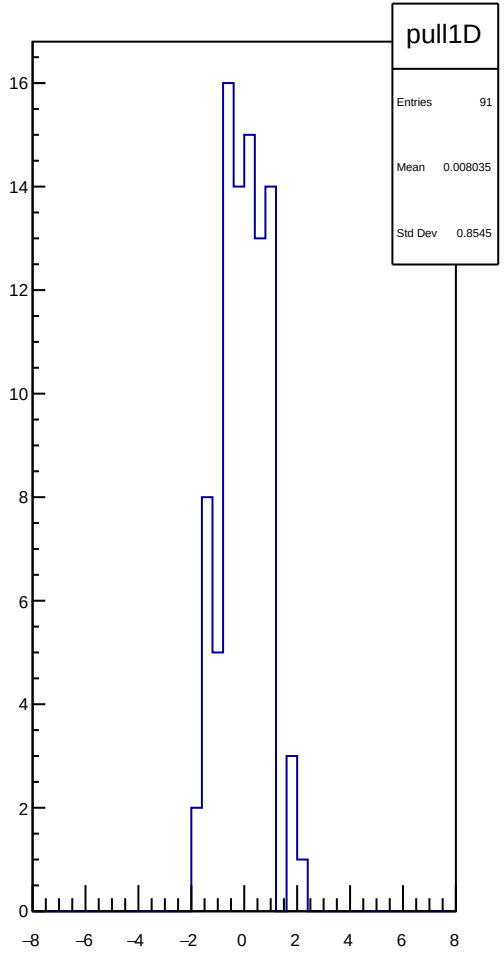

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 61.09 / 90
p0 −34.5 ± 14.62
pull
Entries 91
Mean −431.3
Std Dev 0

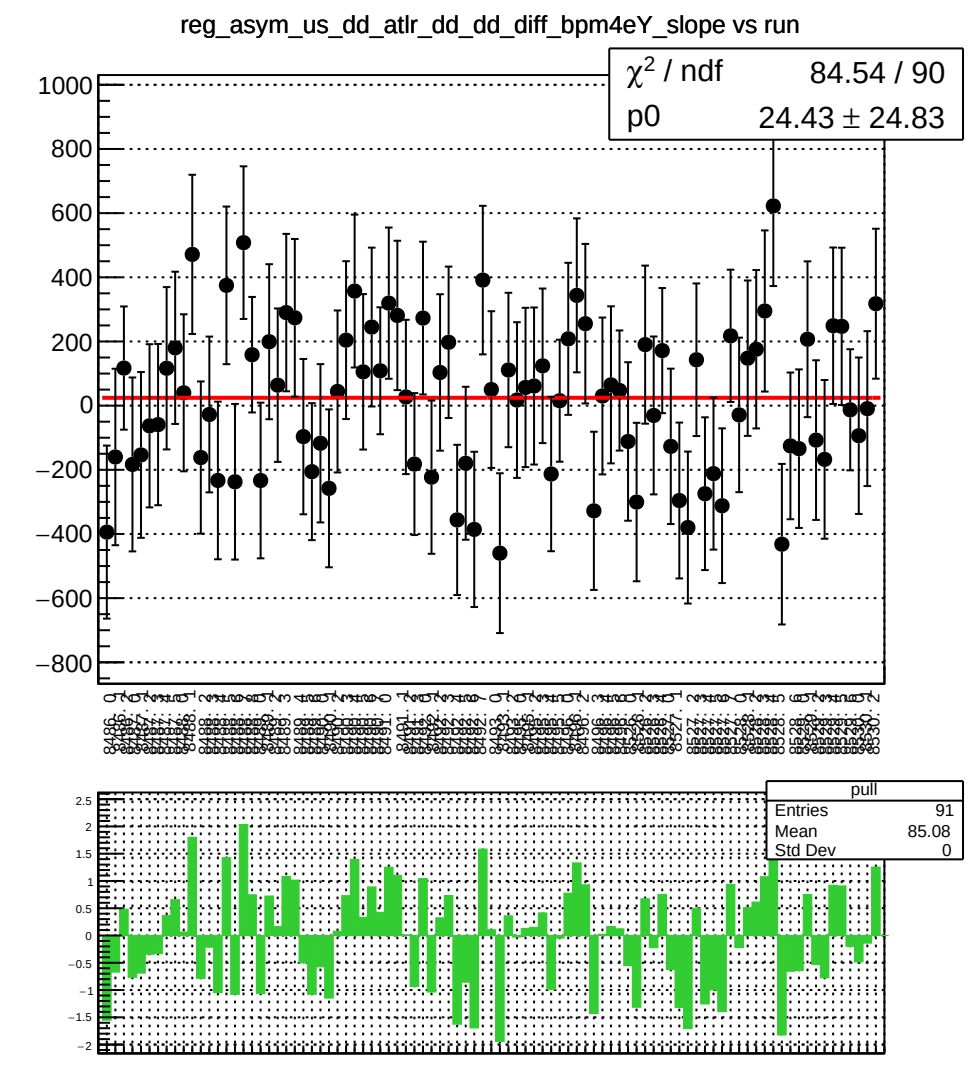

pull1D
Entries 91
Mean −0.004036
Std Dev 0.8193

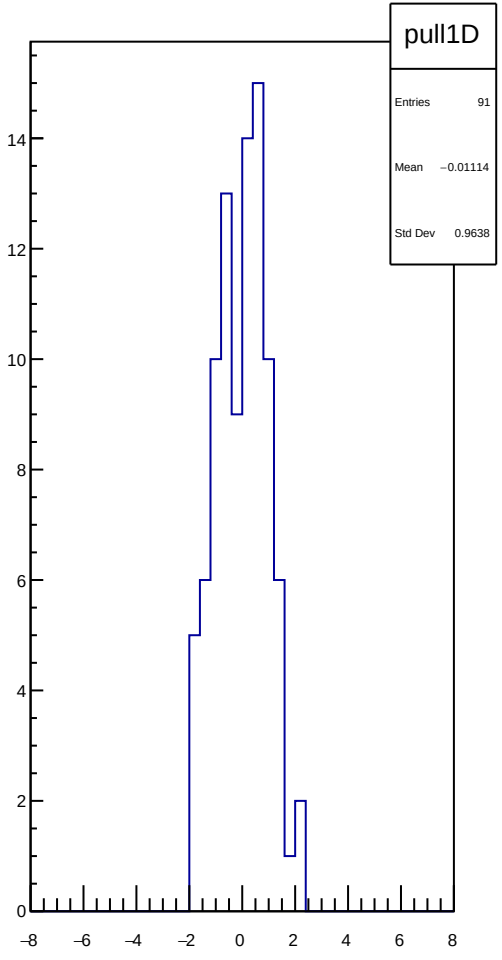

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 84.37 / 90
p0 −22.78 ± 23.44
pull
Entries 91
Mean 54.44
Std Dev 31.39

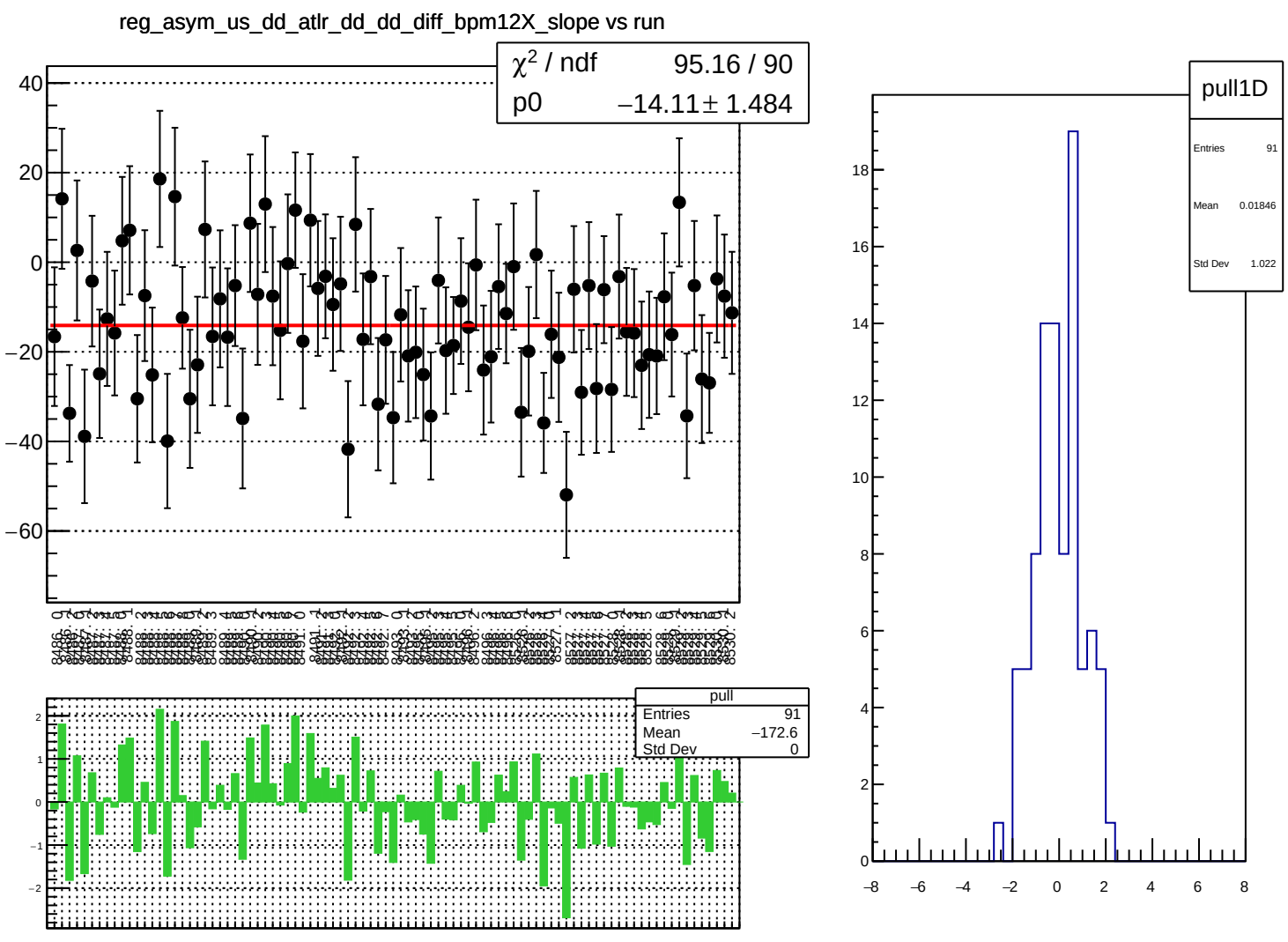

pull1D
Entries 91
Mean 0.01105
Std Dev 0.9628

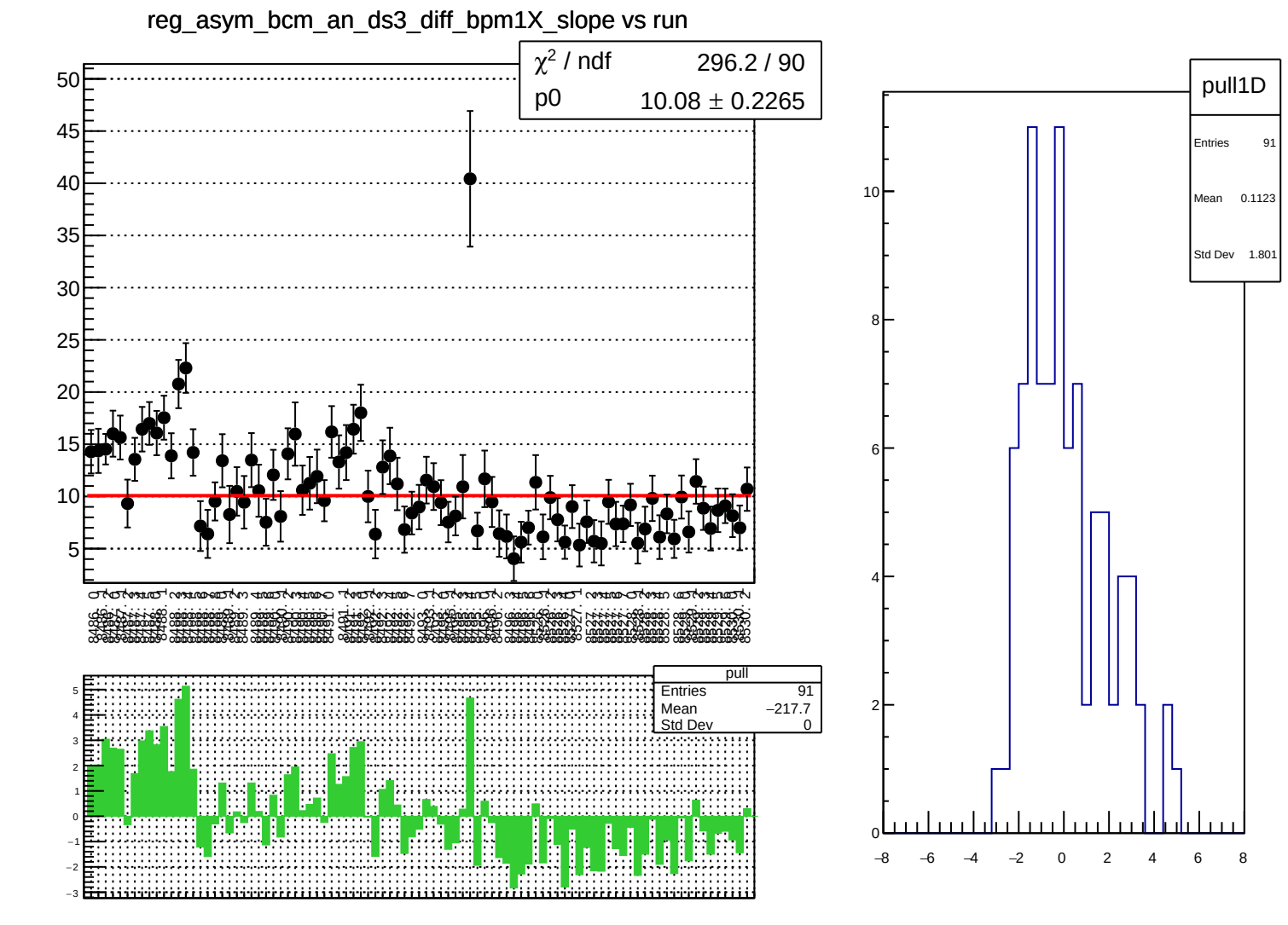

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 66.45 / 90
p0 −30.33 ± 15.89
400
200
0
−200
−400
pull
Entries 91
Mean −293.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

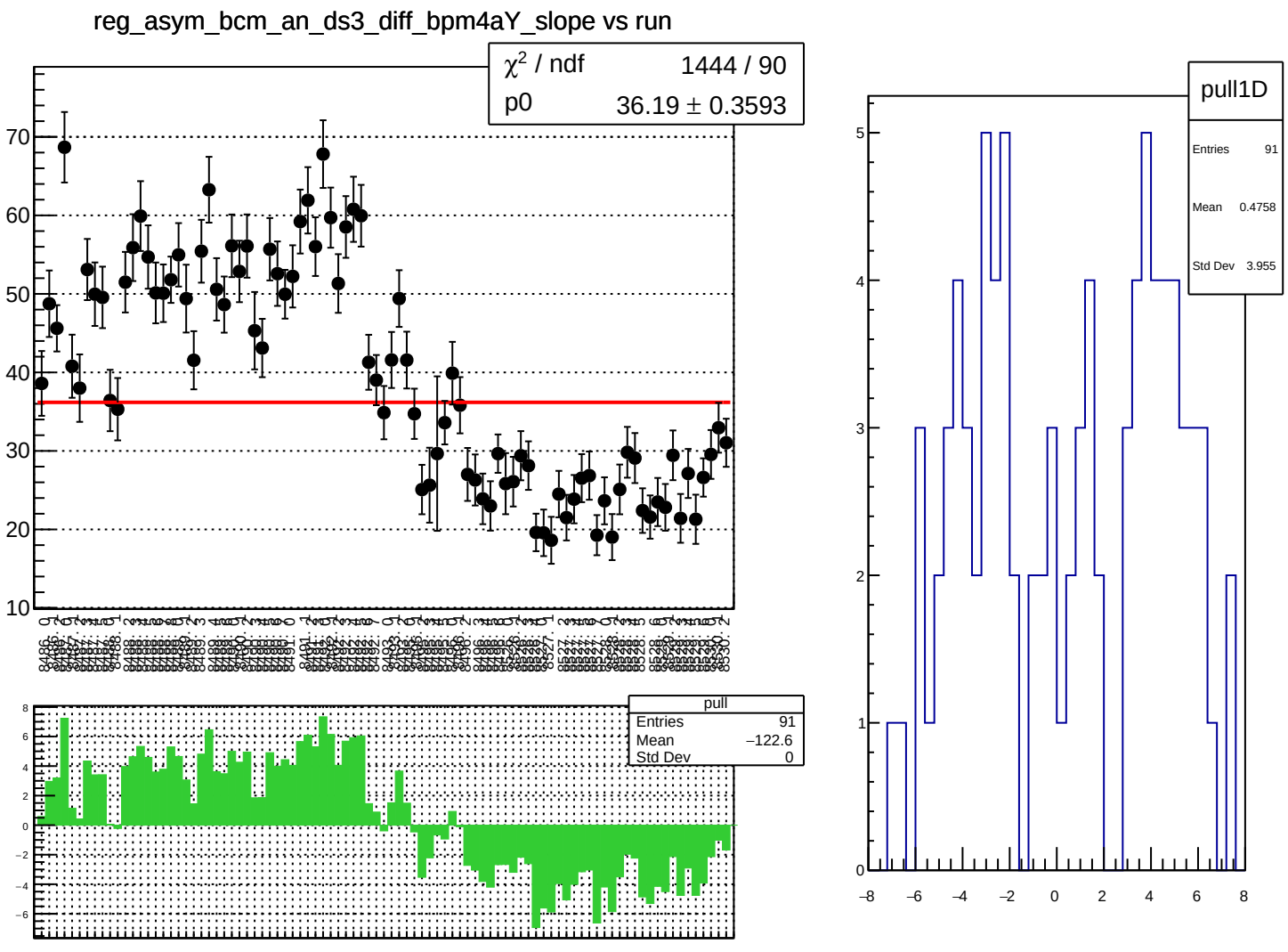

pull1D
Entries 91
Mean 0.008035
Std Dev 0.8545
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

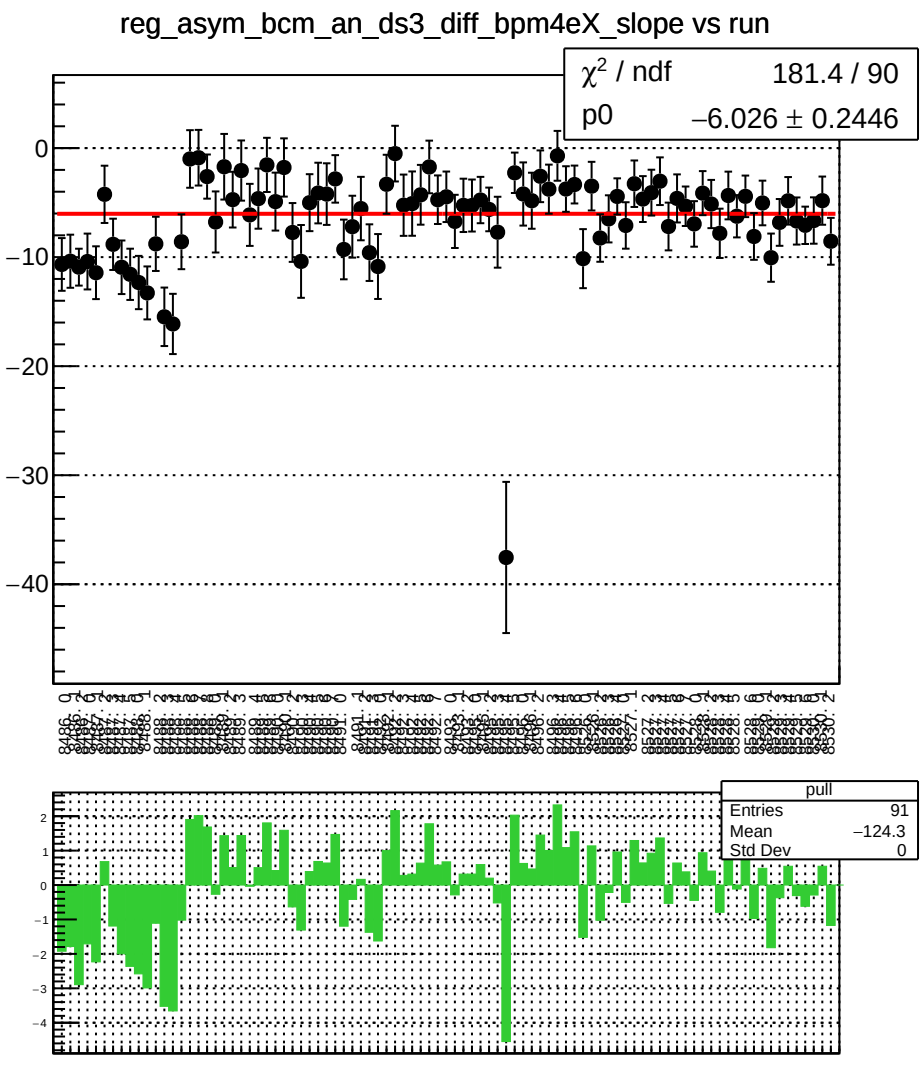

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 84.54 / 90
p0 24.43 ± 24.83
pull
Entries 91
Mean 85.08
Std Dev 0

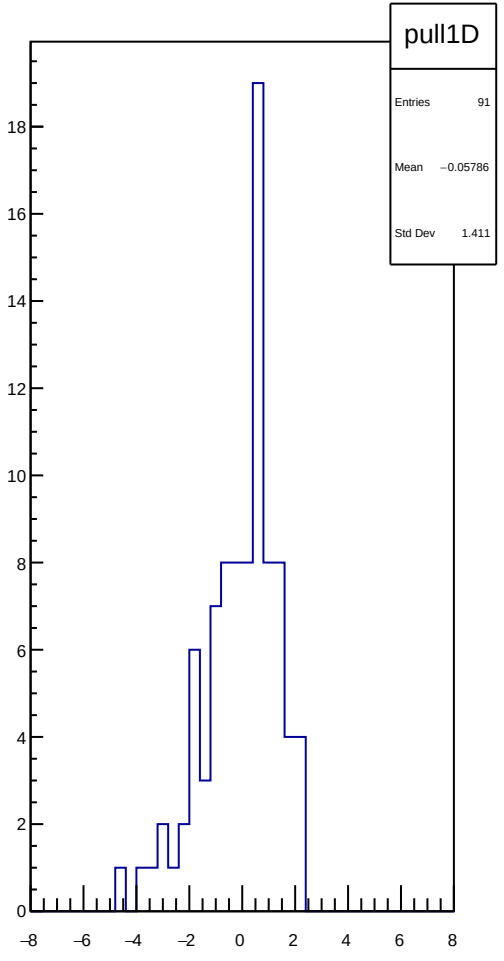

pull1D
Entries 91
Mean −0.01114
Std Dev 0.9638

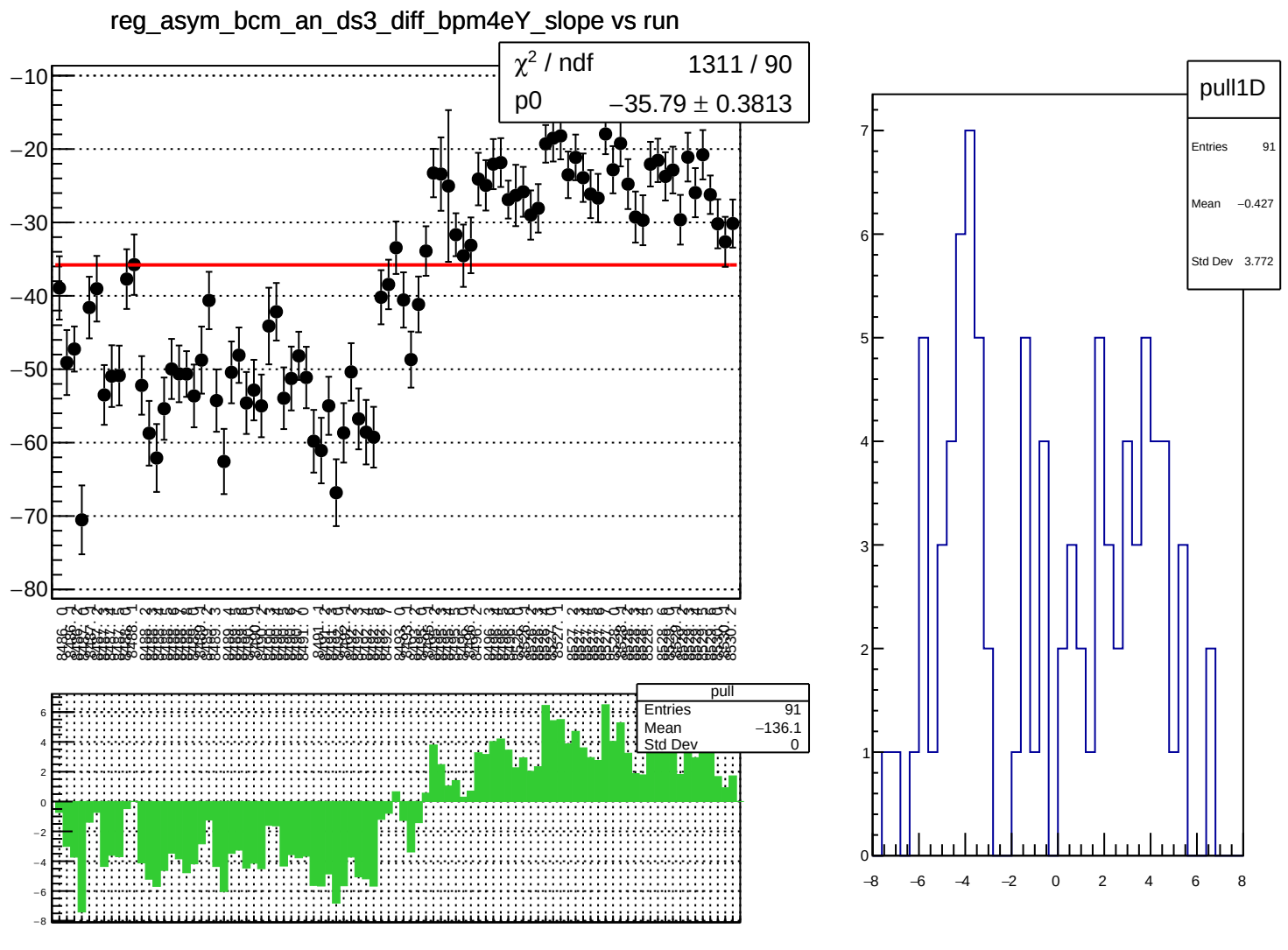

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 95.16 / 90
p0 −14.11 ± 1.484
pull
Entries 91
Mean −172.6
Std Dev 0
pull1D
Entries 91
Mean 0.01846
Std Dev 1.022

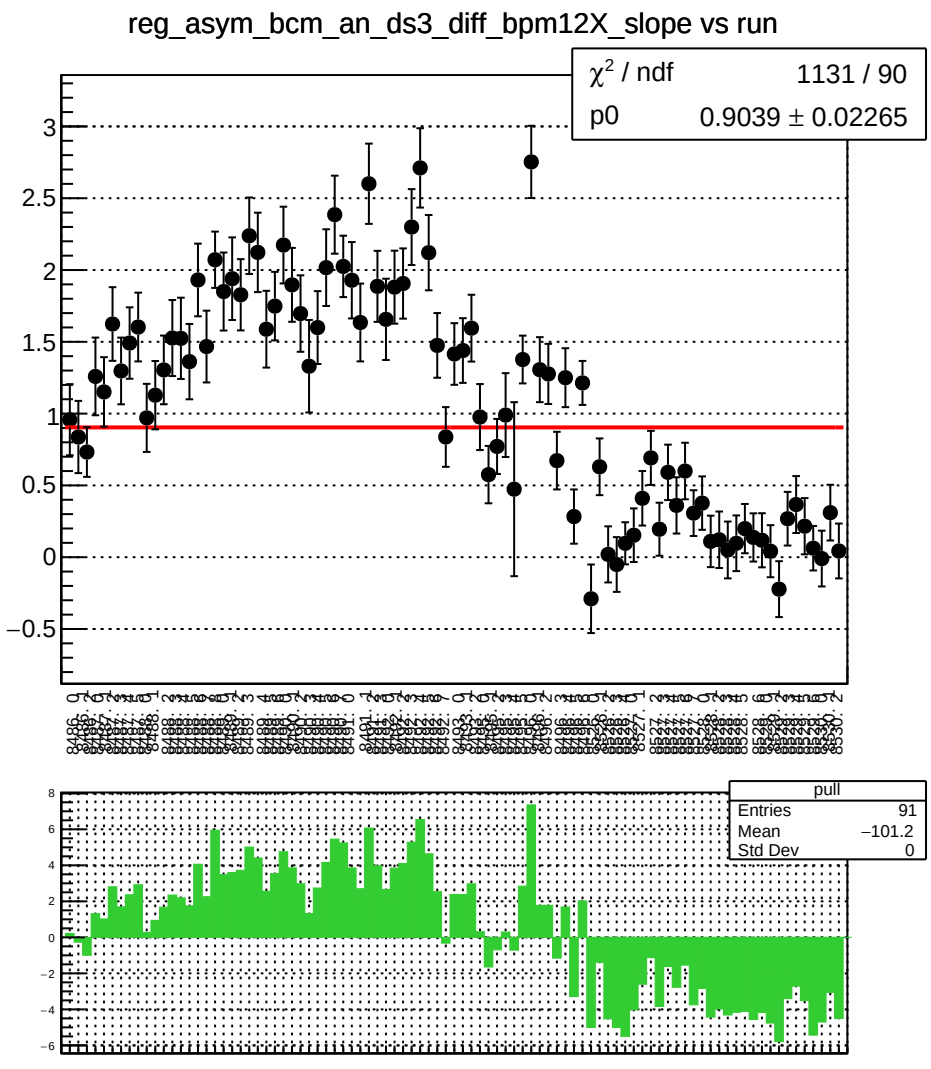

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 296.2 / 90
p0 10.08 ± 0.2265
pull
Entries 91
Mean −217.7
Std Dev 0
pull1D
Entries 91
Mean 0.1123
Std Dev 1.801

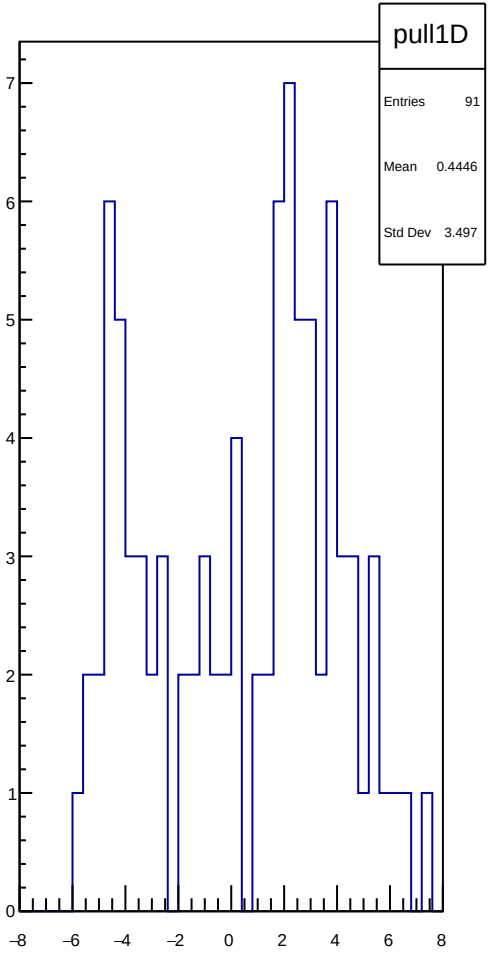

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 1444 / 90
p0 36.19 ± 0.3593
pull
Entries 91
Mean −122.6
Std Dev 0
pull1D
Entries 91
Mean 0.4758
Std Dev 3.955

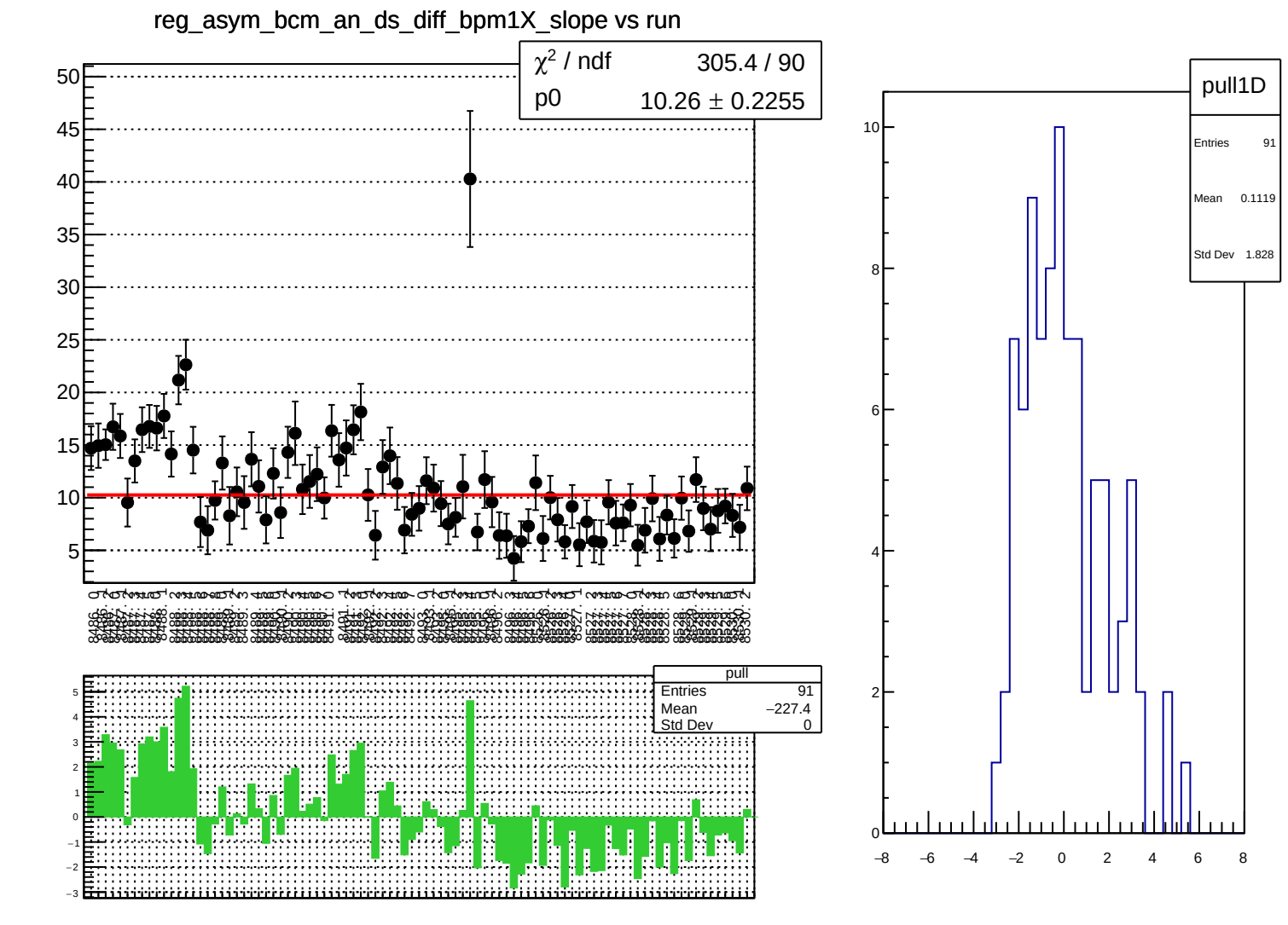

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 181.4 / 90
p0 −6.026 ± 0.2446
pull
Entries 91
Mean −124.3
Std Dev 0

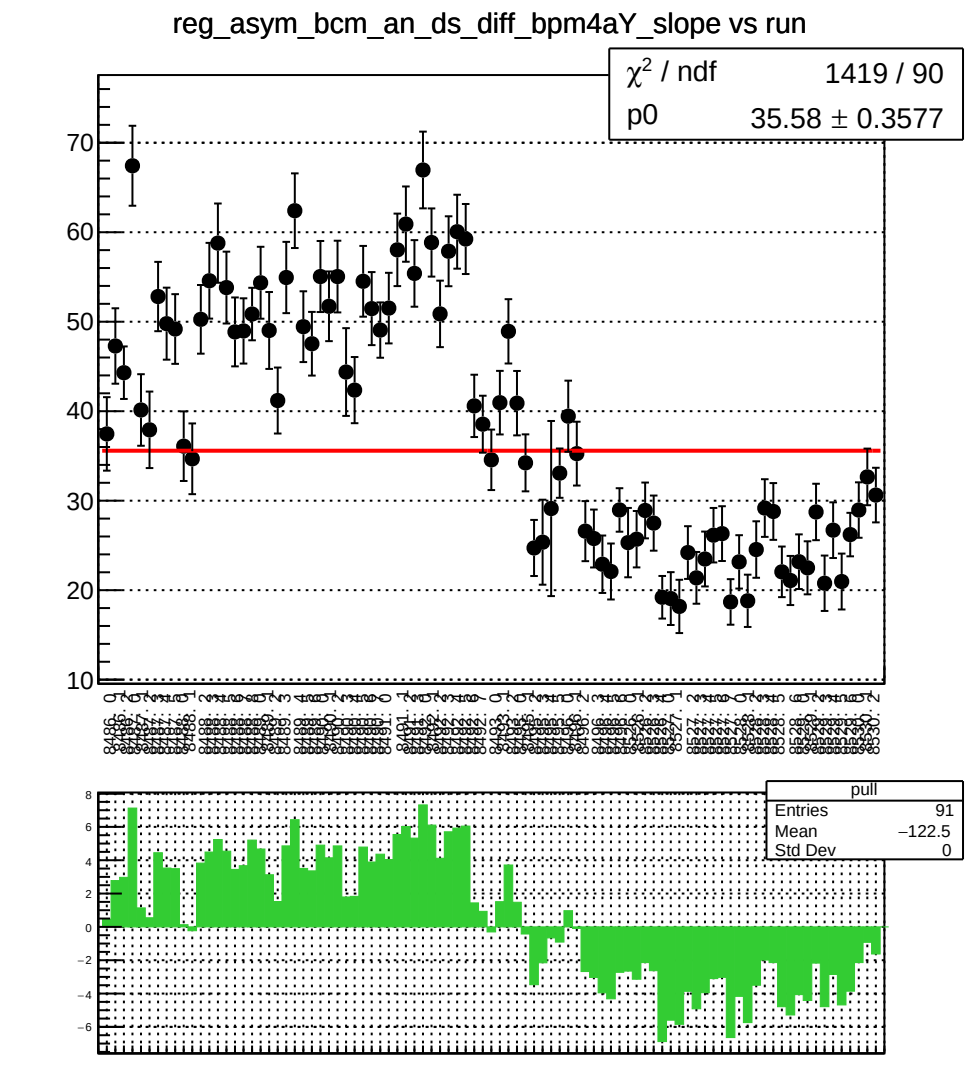

pull1D
Entries 91
Mean −0.05786
Std Dev 1.411

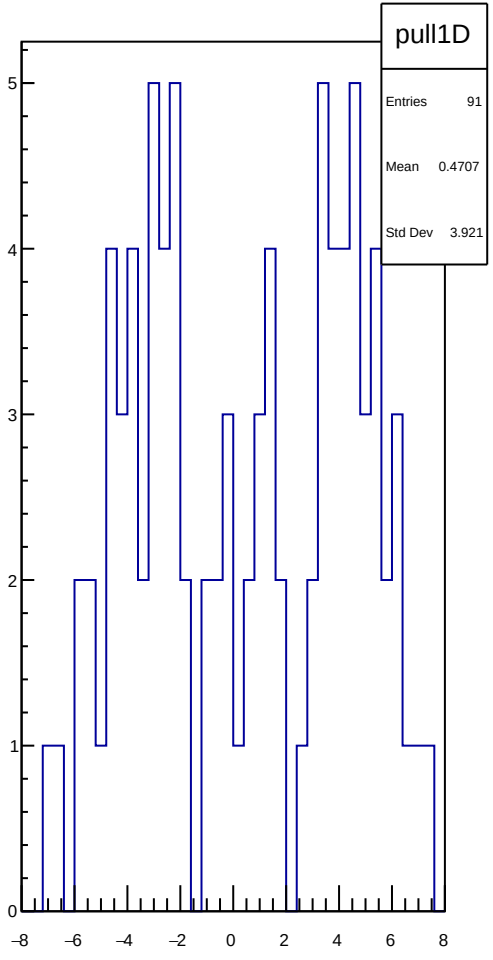

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 1311 / 90
p0 −35.79 ± 0.3813
pull
Entries 91
Mean −136.1
Std Dev 0
pull1D
Entries 91
Mean −0.427
Std Dev 3.772

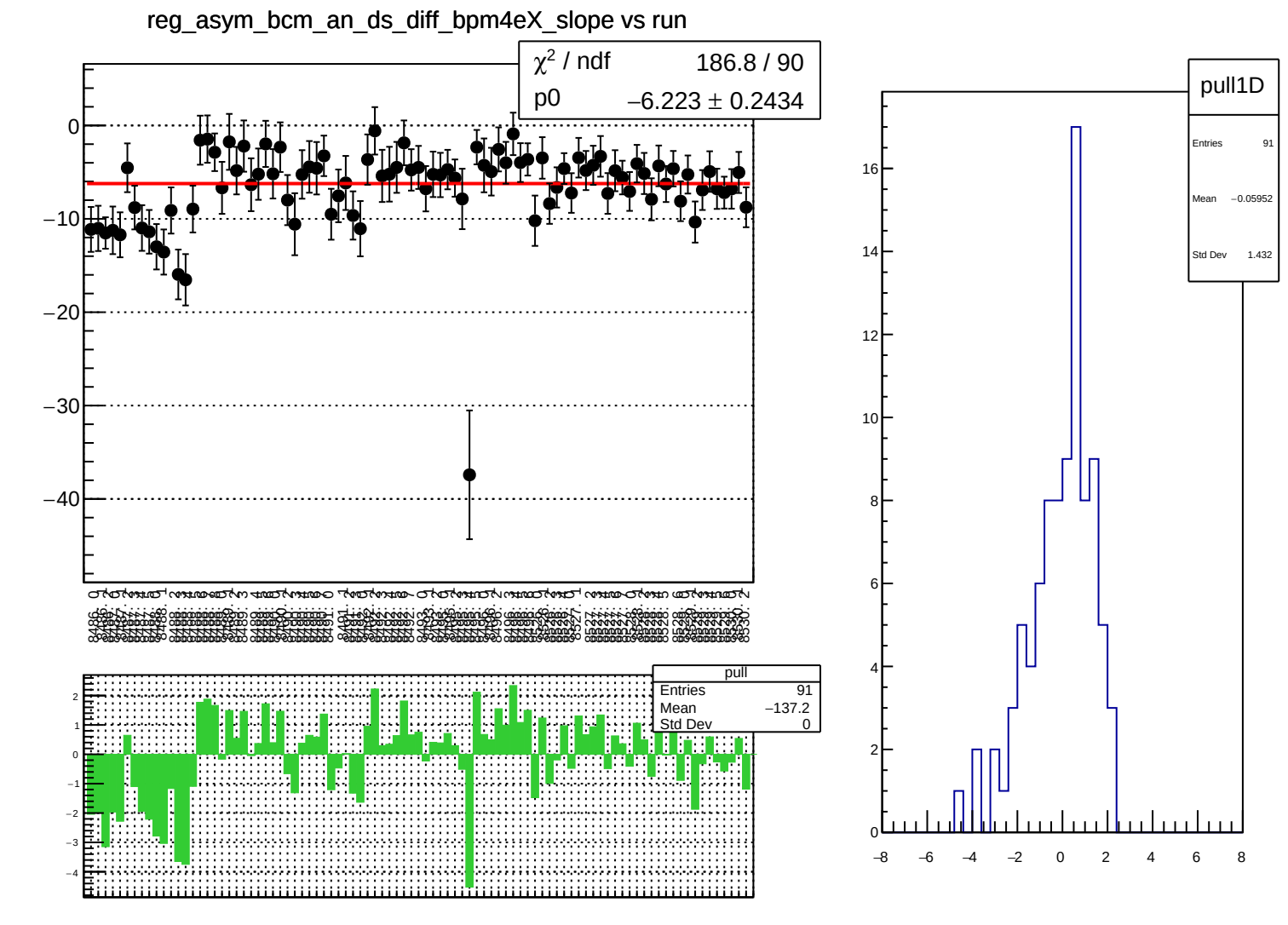

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 1131 / 90
p0 0.9039 ± 0.02265
pull
Entries 91
Mean −101.2
Std Dev 0

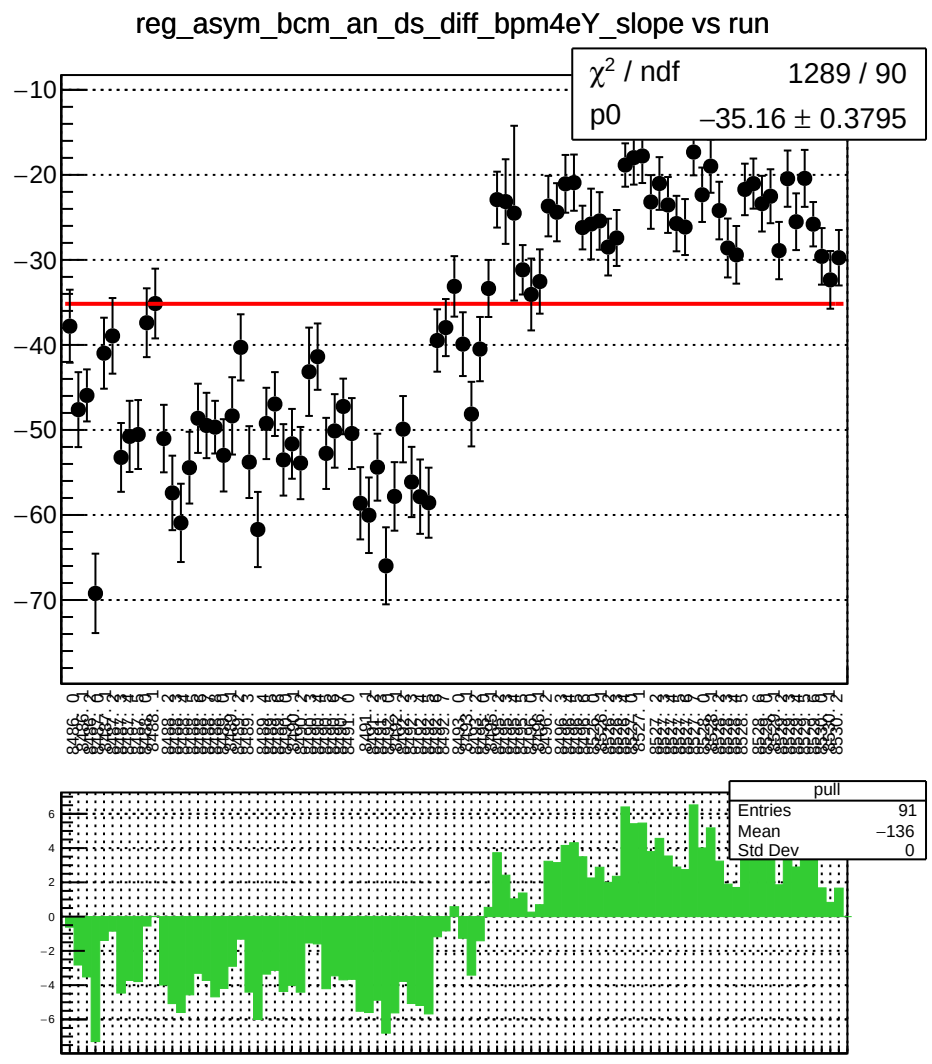

pull1D
Entries 91
Mean 0.4446
Std Dev 3.497

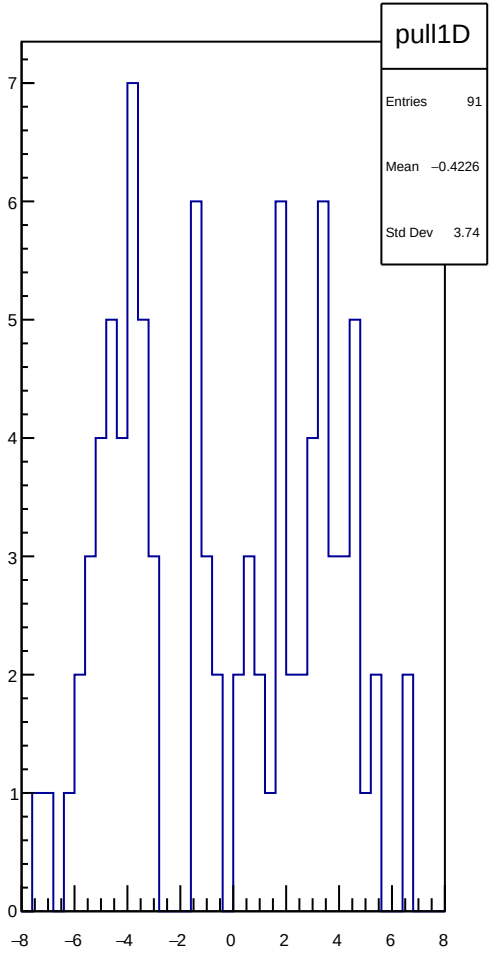

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 305.4 / 90
p0 10.26 ± 0.2255
pull
Entries 91
Mean −227.4
Std Dev 0
pull1D
Entries 91
Mean 0.1119
Std Dev 1.828

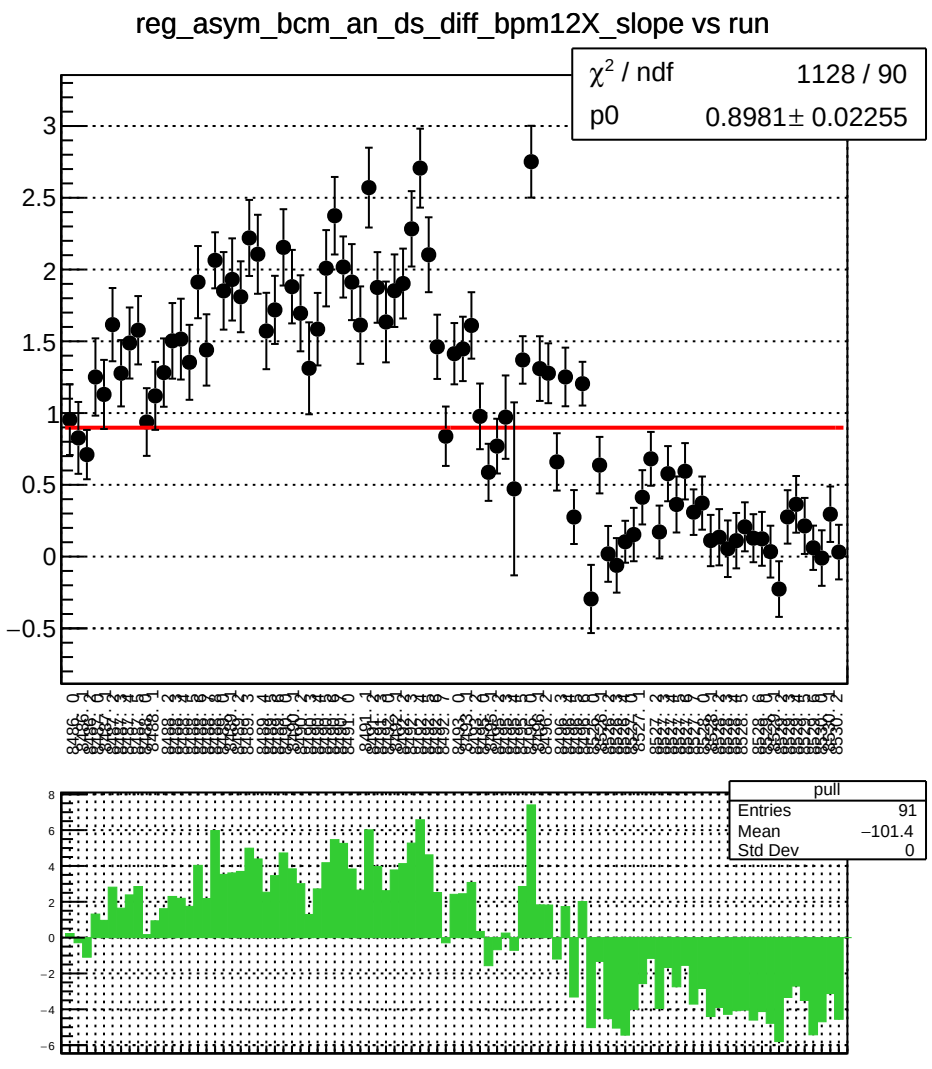

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 1419 / 90
p0 35.58 ± 0.3577
pull
Entries 91
Mean −122.5
Std Dev 0

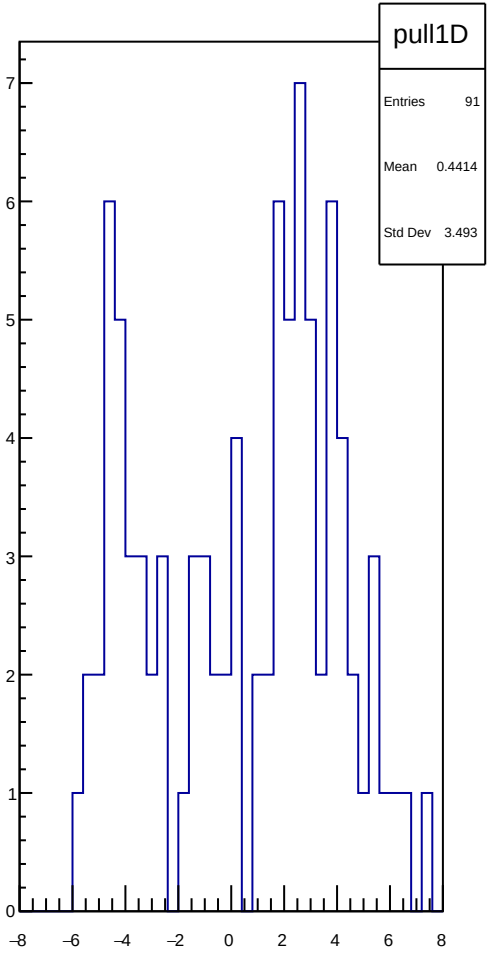

pull1D
Entries 91
Mean 0.4707
Std Dev 3.921

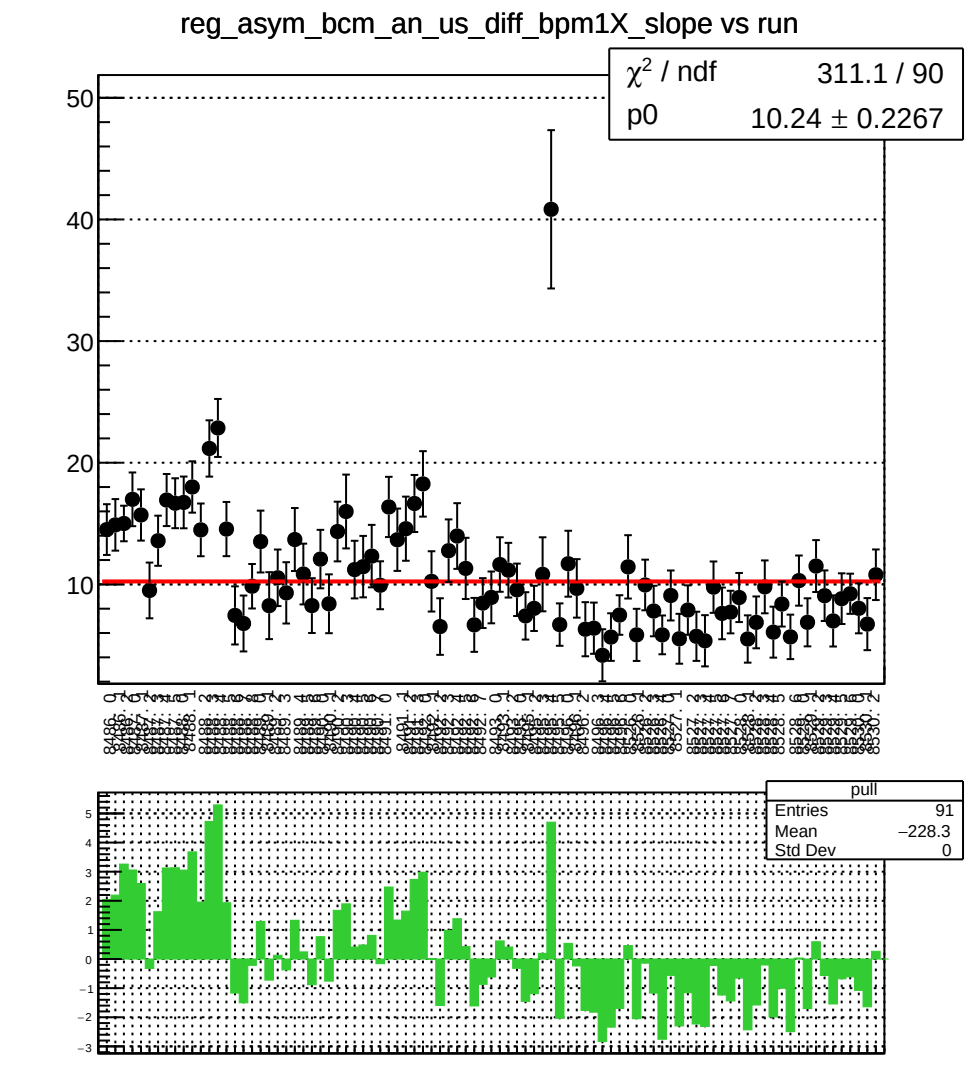

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 186.8 / 90
p0 −6.223 ± 0.2434
pull
Entries 91
Mean −137.2
Std Dev 0
pull1D
Entries 91
Mean −0.05952
Std Dev 1.432

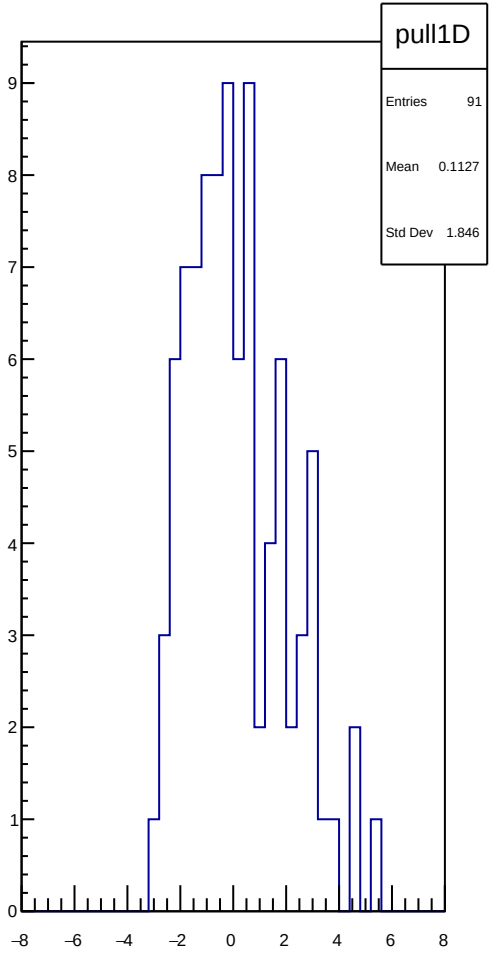

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 1289 / 90
p0 −35.16 ± 0.3795
pull
Entries 91
Mean −136
Std Dev 0

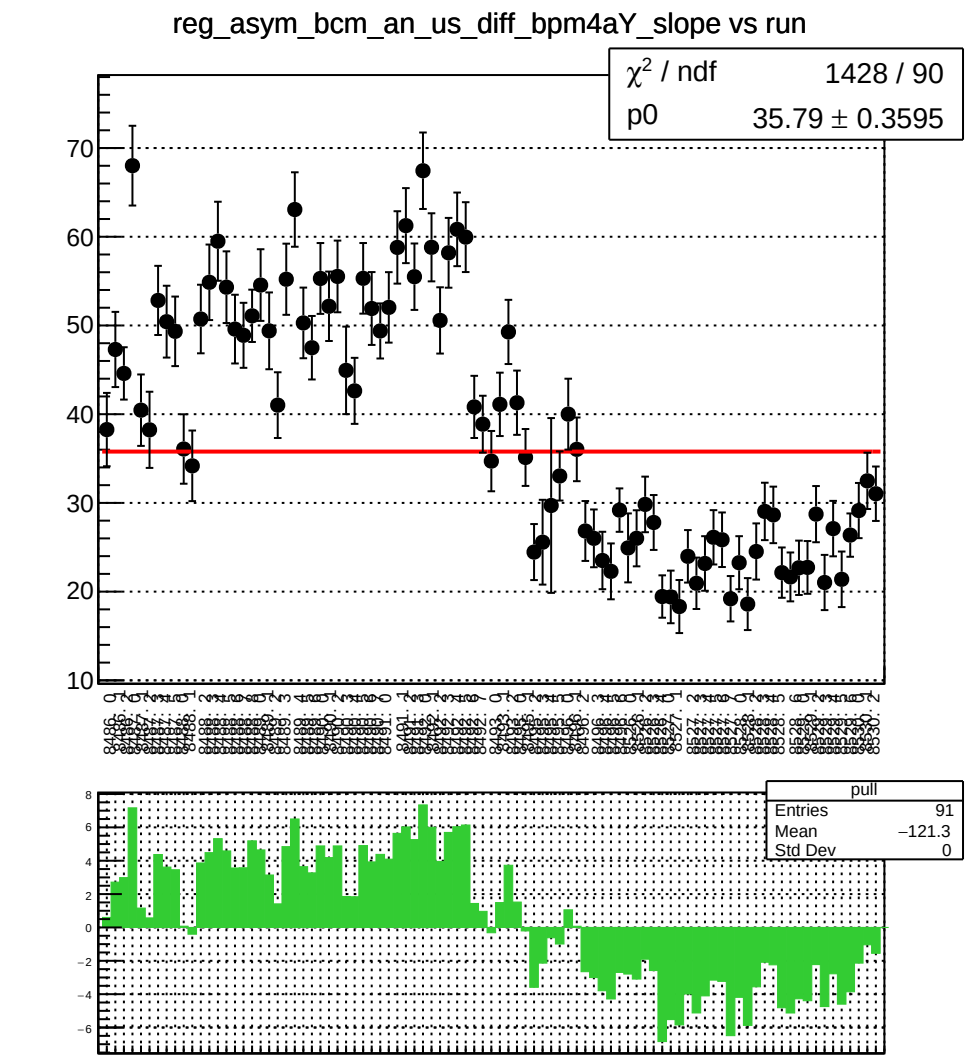

pull1D
Entries 91
Mean −0.4226
Std Dev 3.74

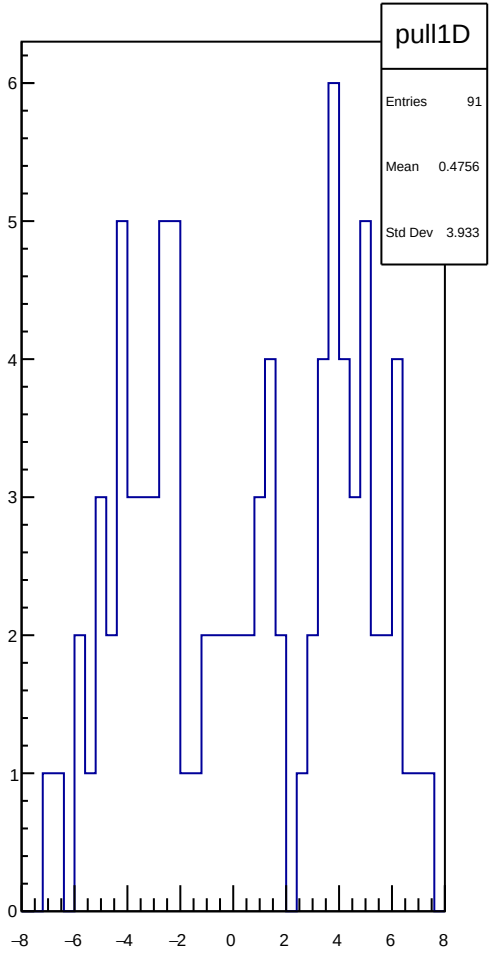

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 1128 / 90
p0 0.8981± 0.02255
pull
Entries 91
Mean −101.4
Std Dev 0

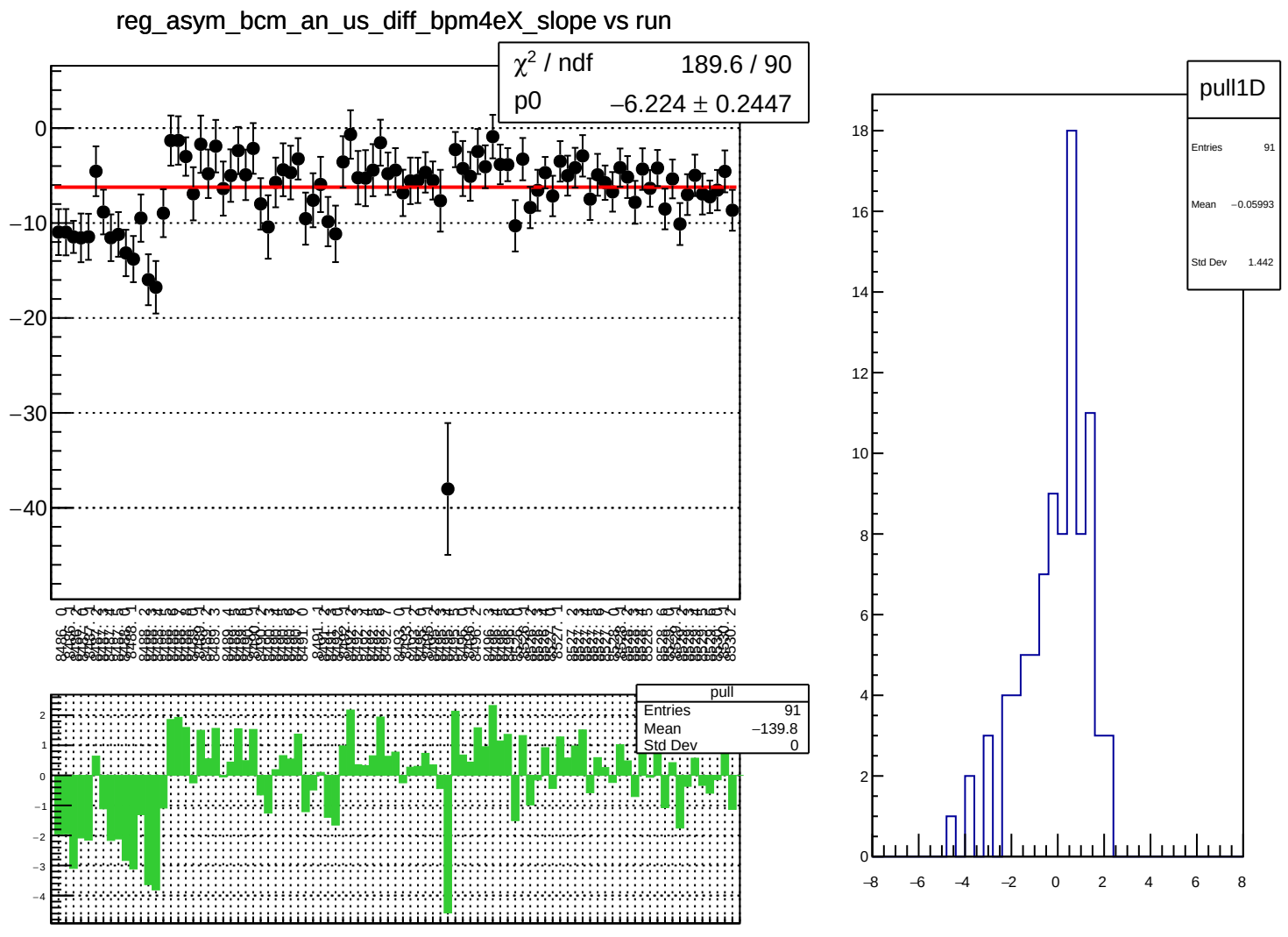

pull1D
Entries 91
Mean 0.4414
Std Dev 3.493

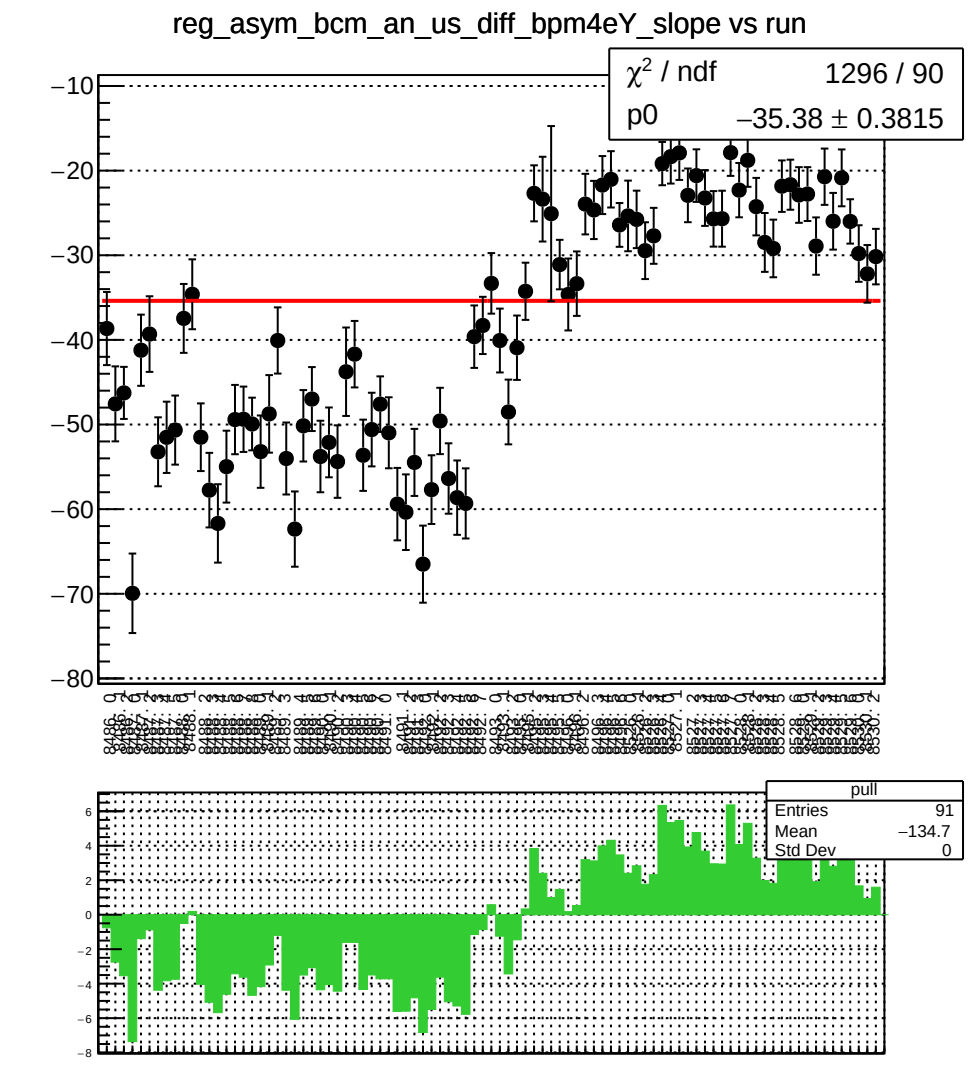

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 311.1 / 90
p0 10.24 ± 0.2267
pull
Entries 91
Mean −228.3
Std Dev 0

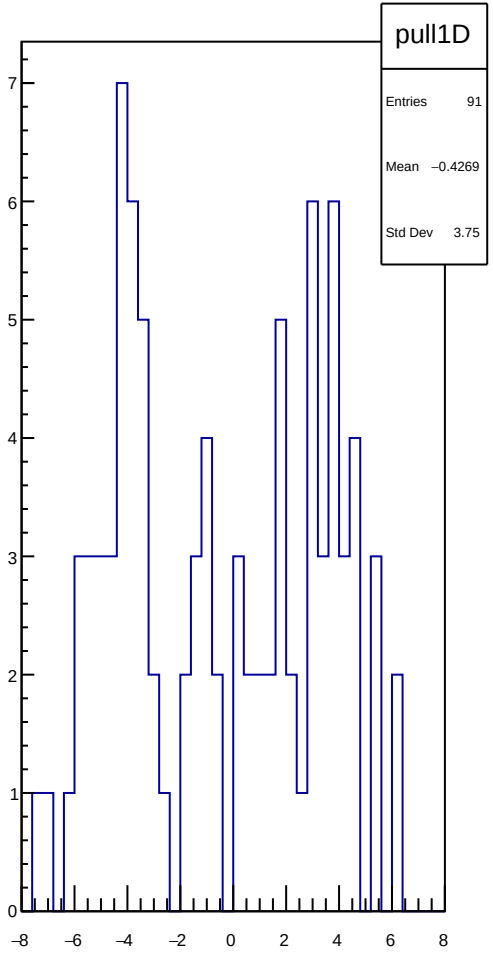

pull1D
Entries 91
Mean 0.1127
Std Dev 1.846

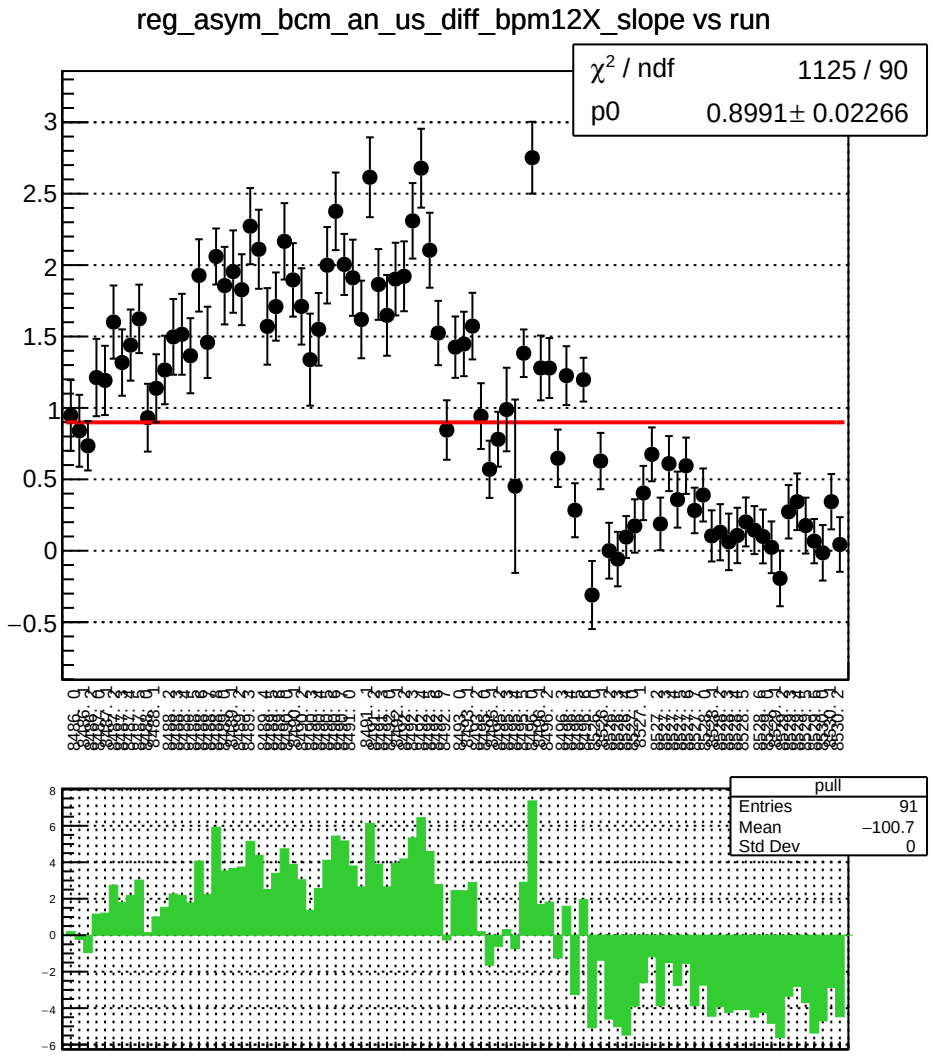

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 1428 / 90
p0 35.79 ± 0.3595
pull
Entries 91
Mean −121.3
Std Dev 0

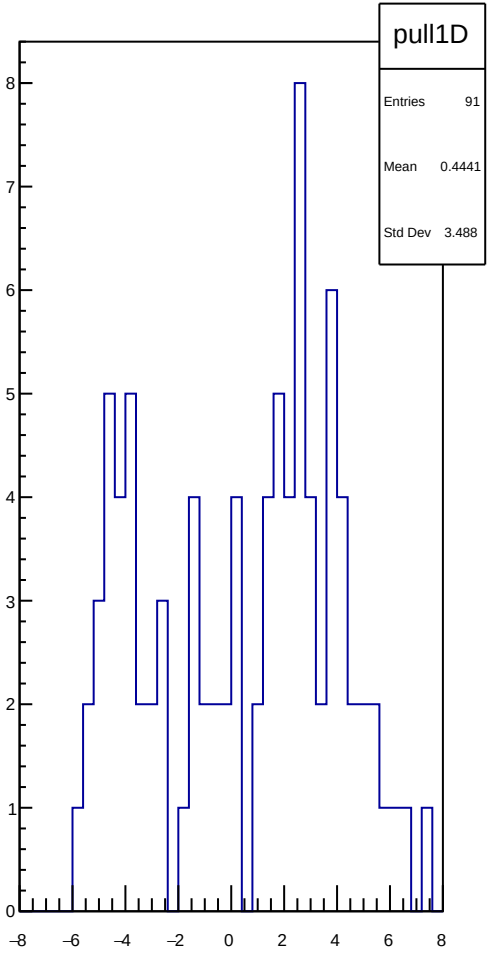

pull1D
Entries 91
Mean 0.4756
Std Dev 3.933

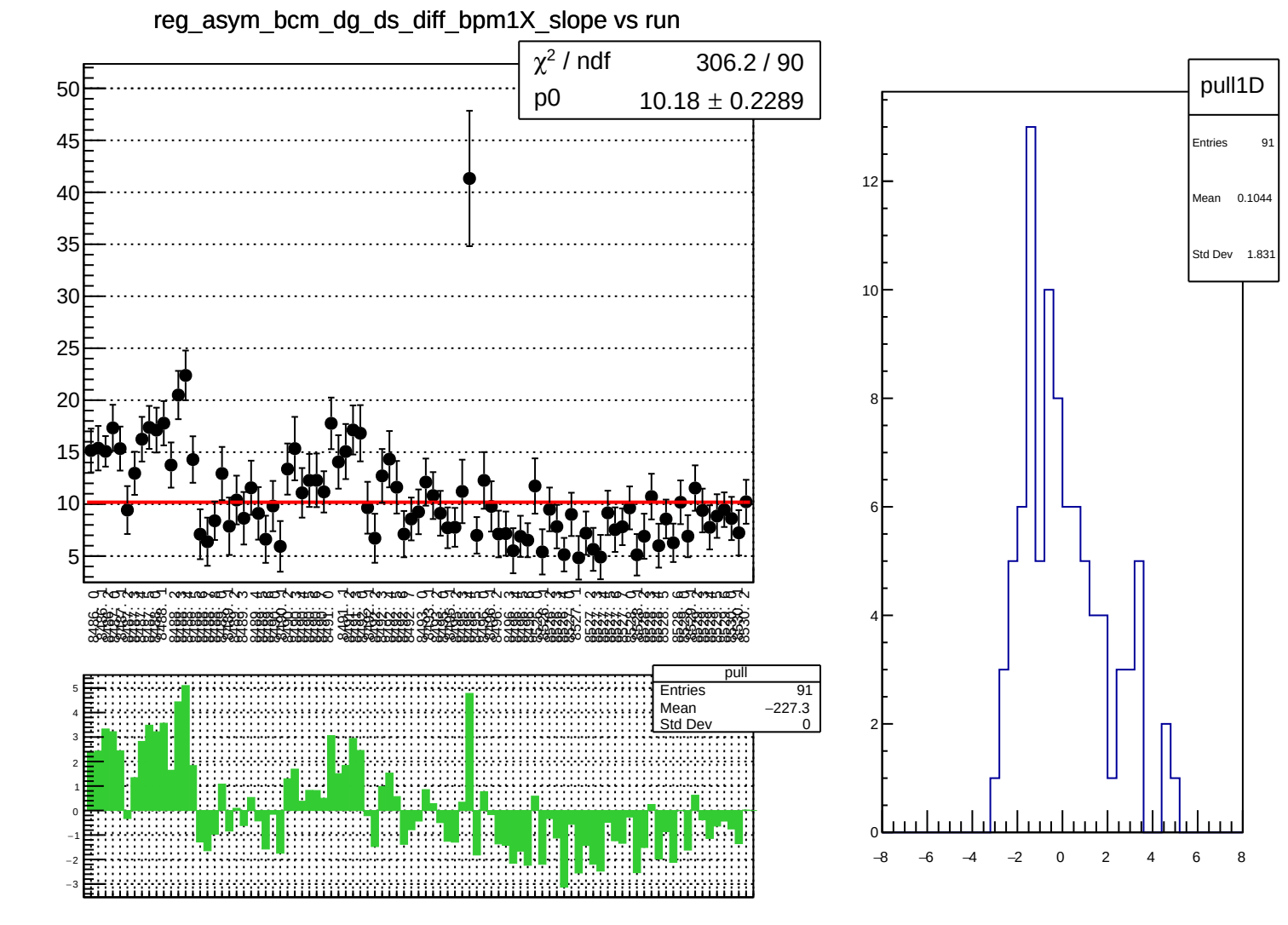

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 189.6 / 90
p0 −6.224 ± 0.2447
pull
Entries 91
Mean −139.8
Std Dev 0
pull1D
Entries 91
Mean −0.05993
Std Dev 1.442

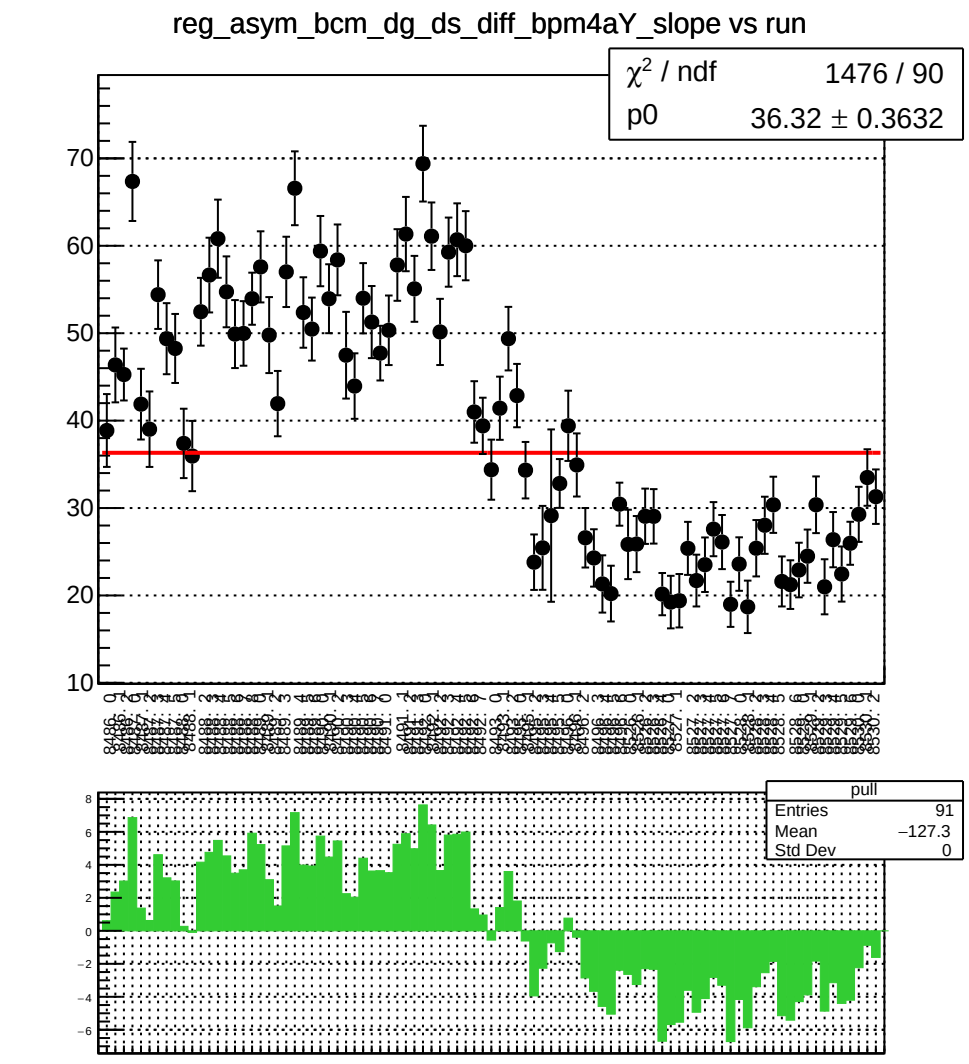

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 1296 / 90
p0 −35.38 ± 0.3815
pull
Entries 91
Mean −134.7
Std Dev 0

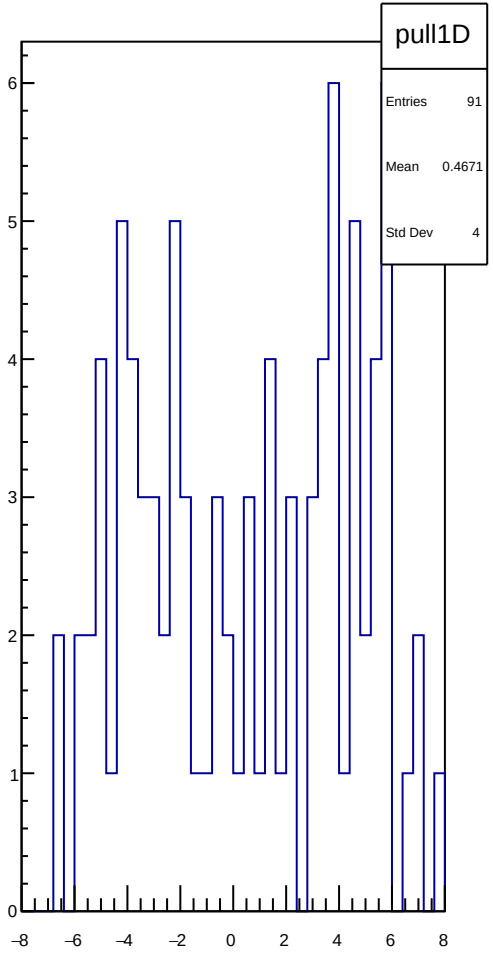

pull1D
Entries 91
Mean −0.4269
Std Dev 3.75

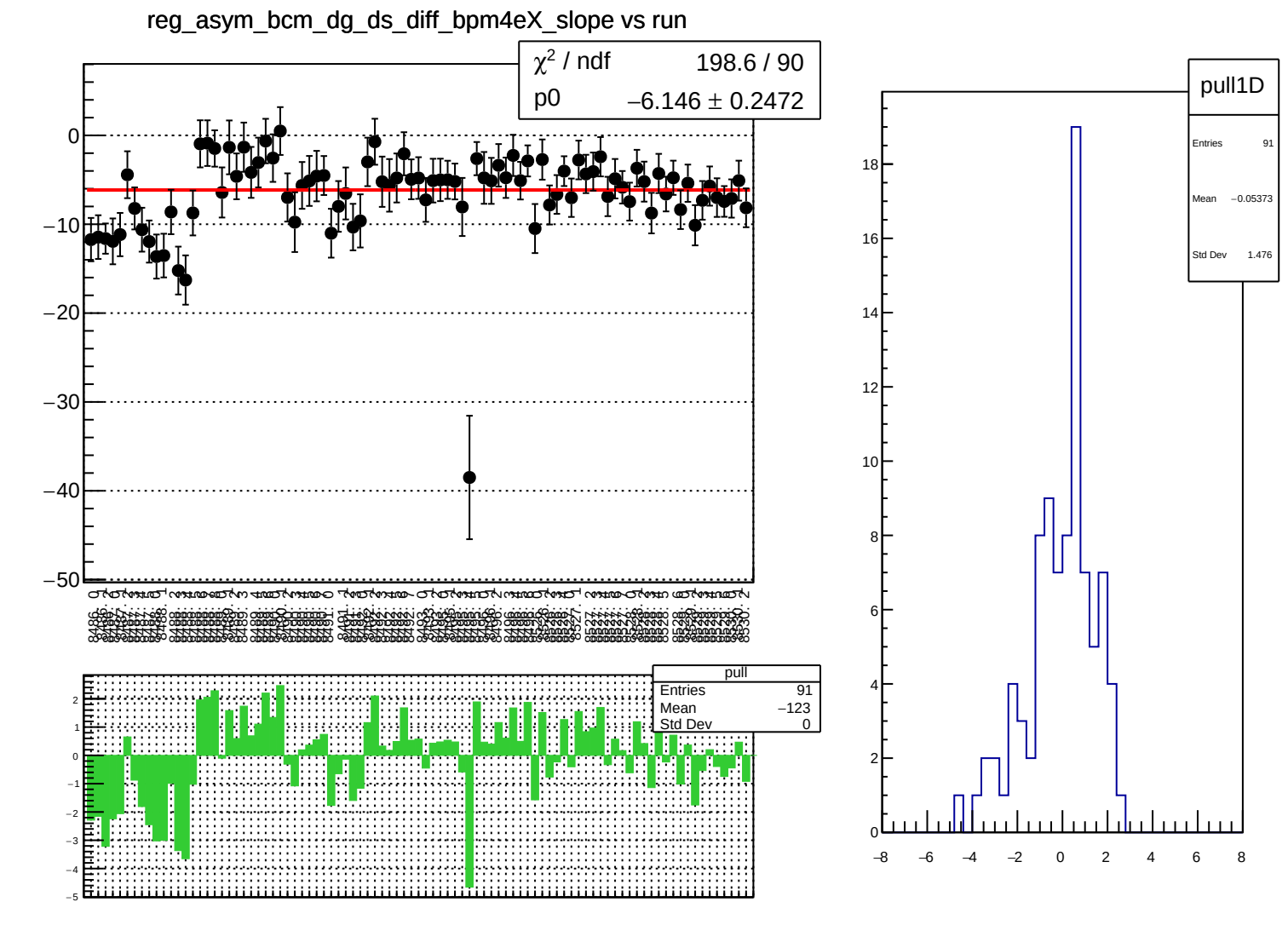

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 1125 / 90
p0 0.8991± 0.02266
pull
Entries 91
Mean −100.7
Std Dev 0

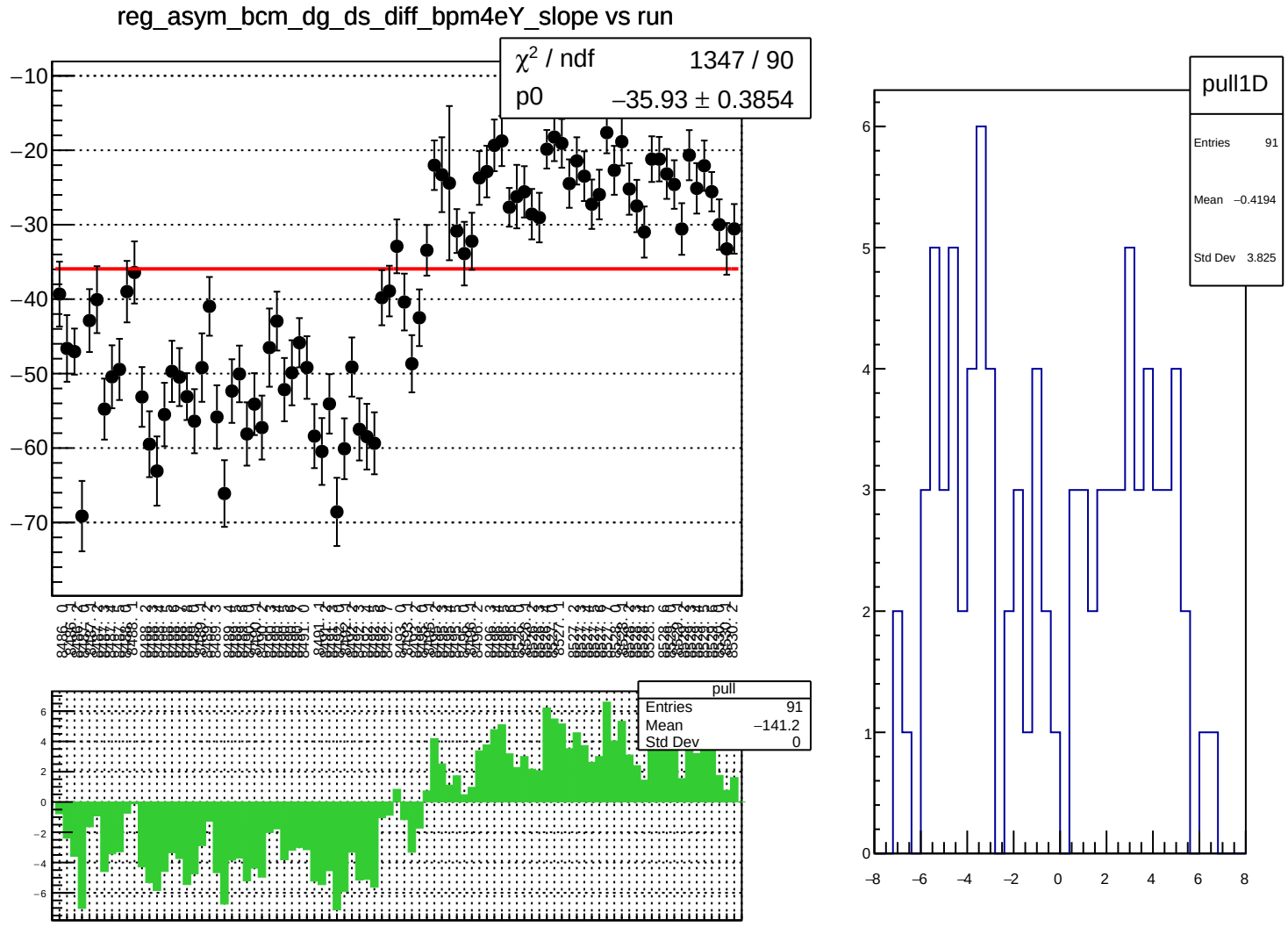

pull1D
Entries 91
Mean 0.4441
Std Dev 3.488

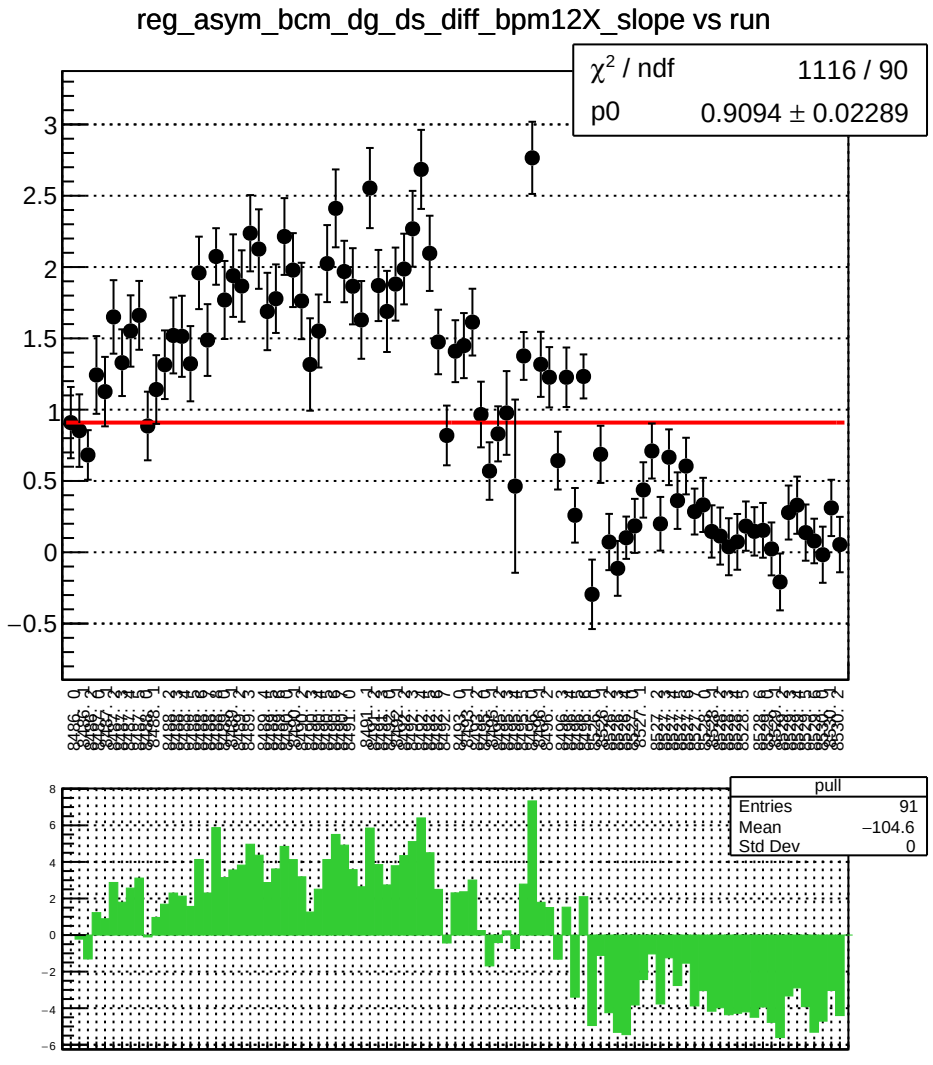

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 306.2 / 90
p0 10.18 ± 0.2289
pull
Entries 91
Mean −227.3
Std Dev 0
pull1D
Entries 91
Mean 0.1044
Std Dev 1.831

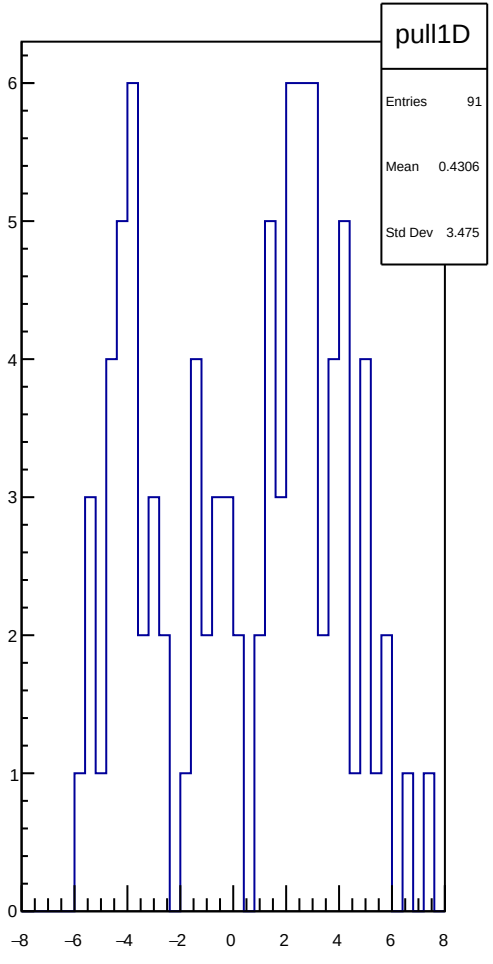

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 1476 / 90
p0 36.32 ± 0.3632
pull
Entries 91
Mean −127.3
Std Dev 0

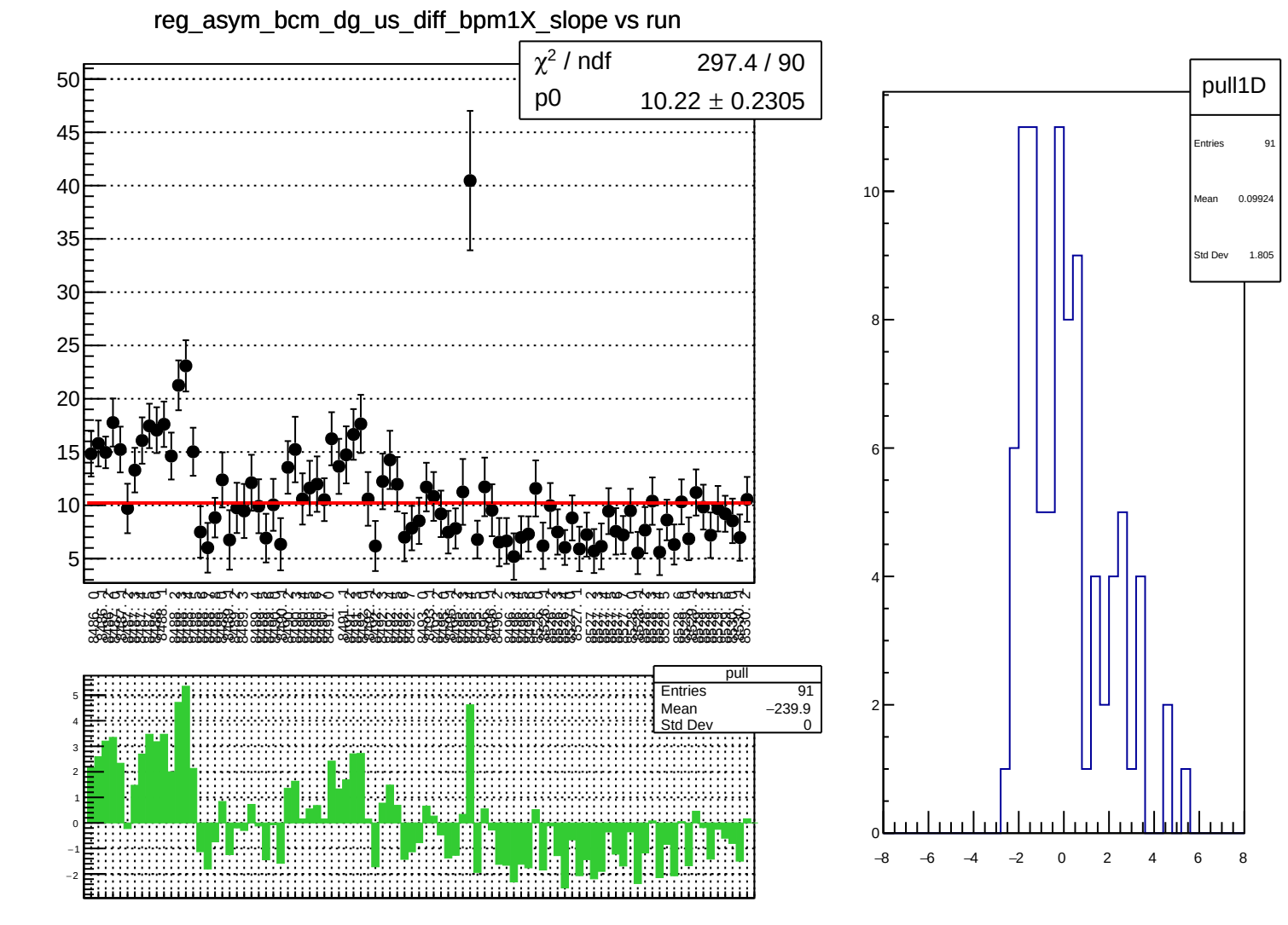

pull1D
Entries 91
Mean 0.4671
Std Dev 4

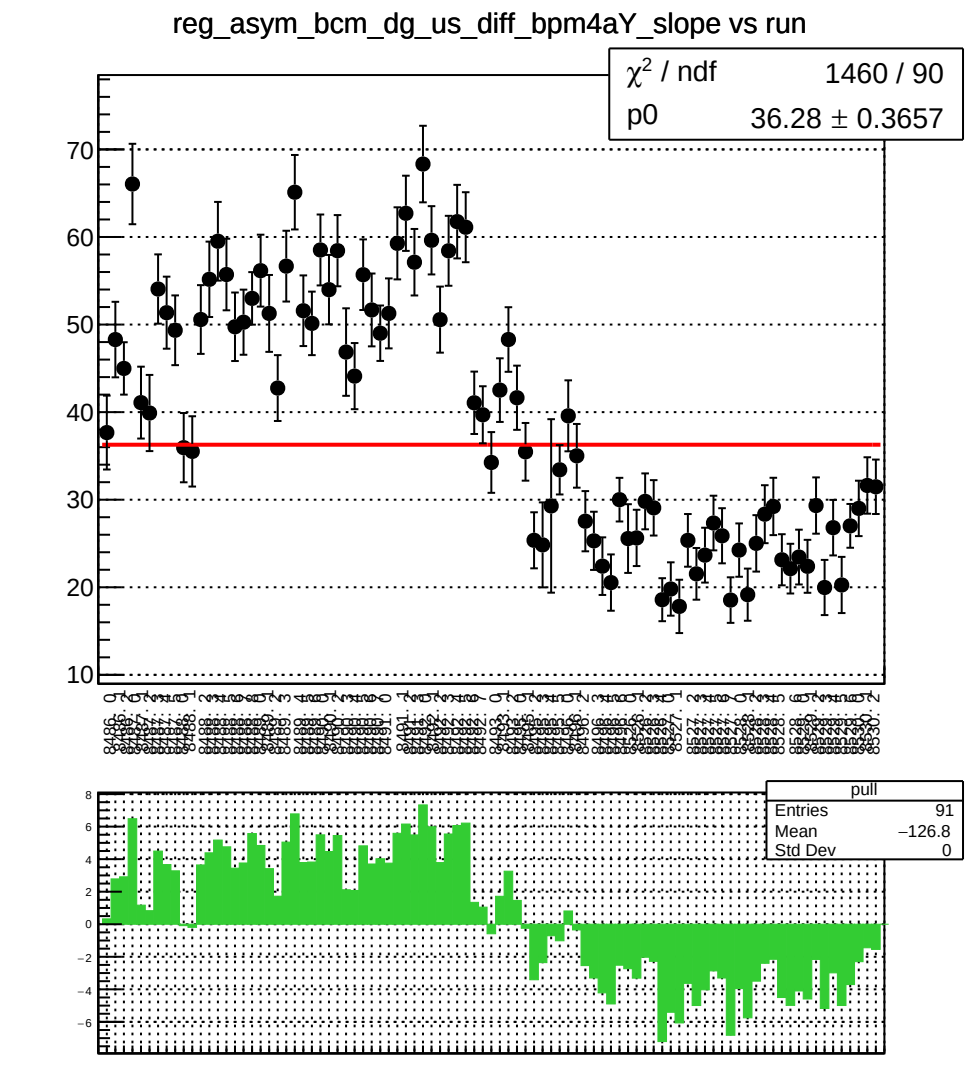

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 198.6 / 90
p0 −6.146 ± 0.2472
pull
Entries 91
Mean −123
Std Dev 0
pull1D
Entries 91
Mean −0.05373
Std Dev 1.476

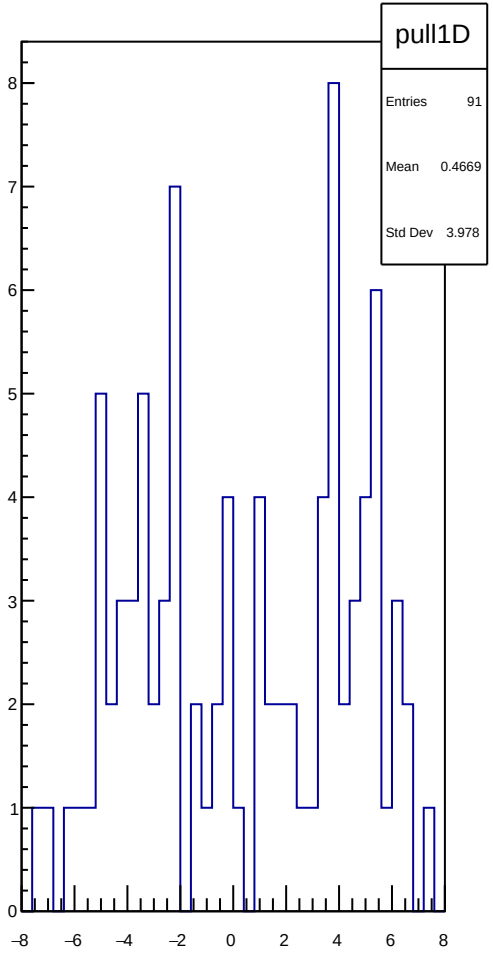

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 1347 / 90
p0 −35.93 ± 0.3854
pull
Entries 91
Mean −141.2
Std Dev 0
pull1D
Entries 91
Mean −0.4194
Std Dev 3.825

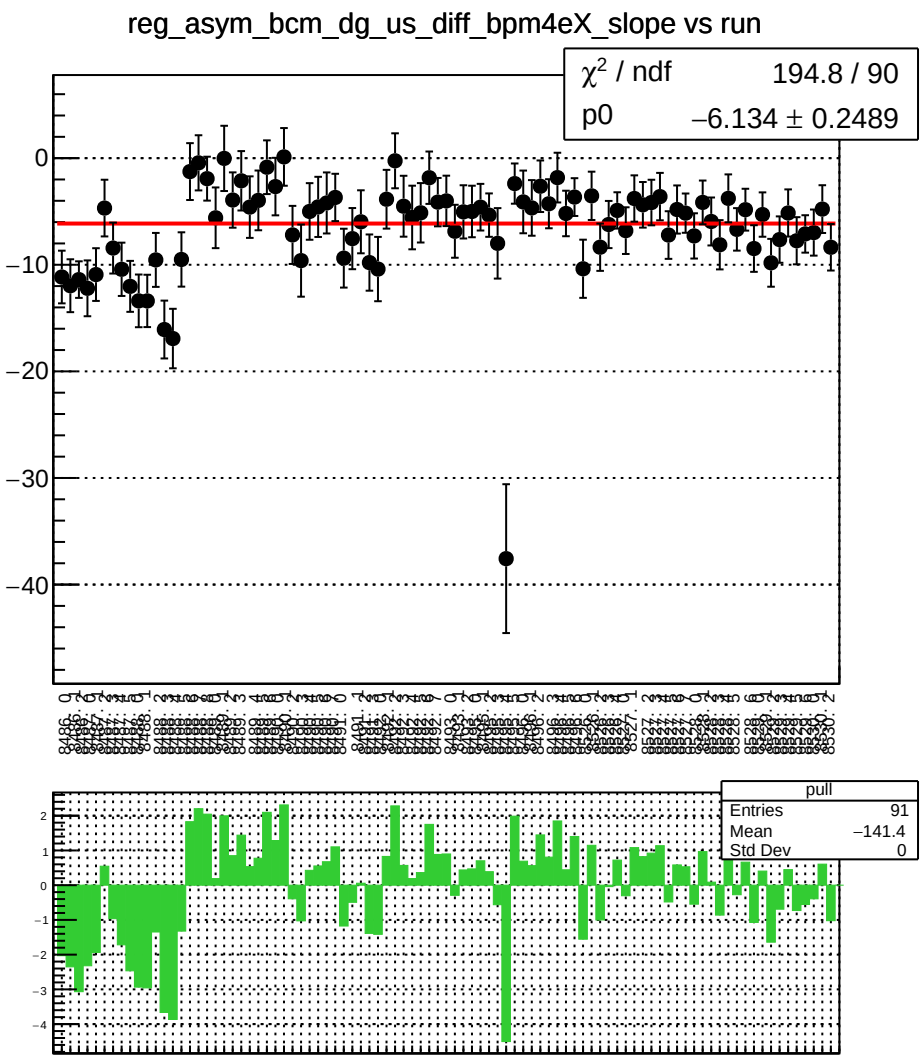

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 1116 / 90
p0 0.9094 ± 0.02289
pull
Entries 91
Mean −104.6
Std Dev 0

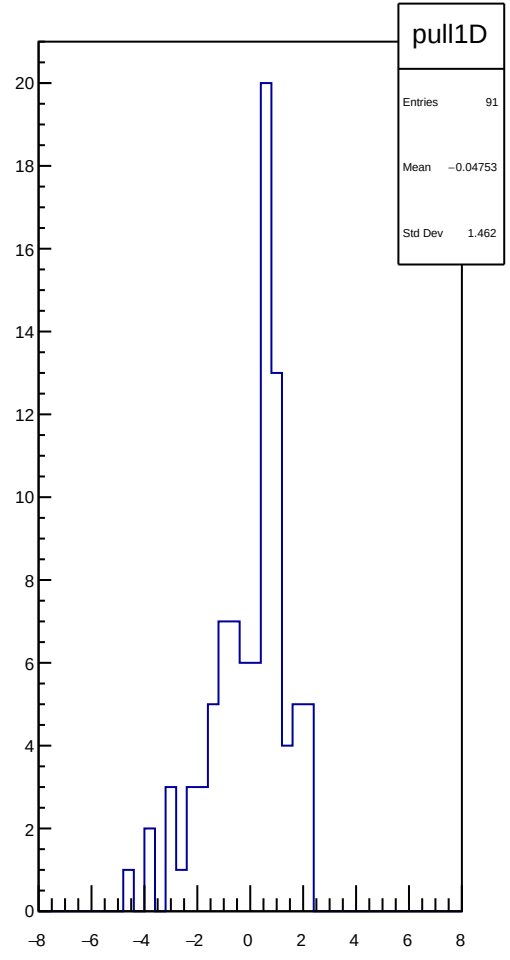

pull1D
Entries 91
Mean 0.4306
Std Dev 3.475

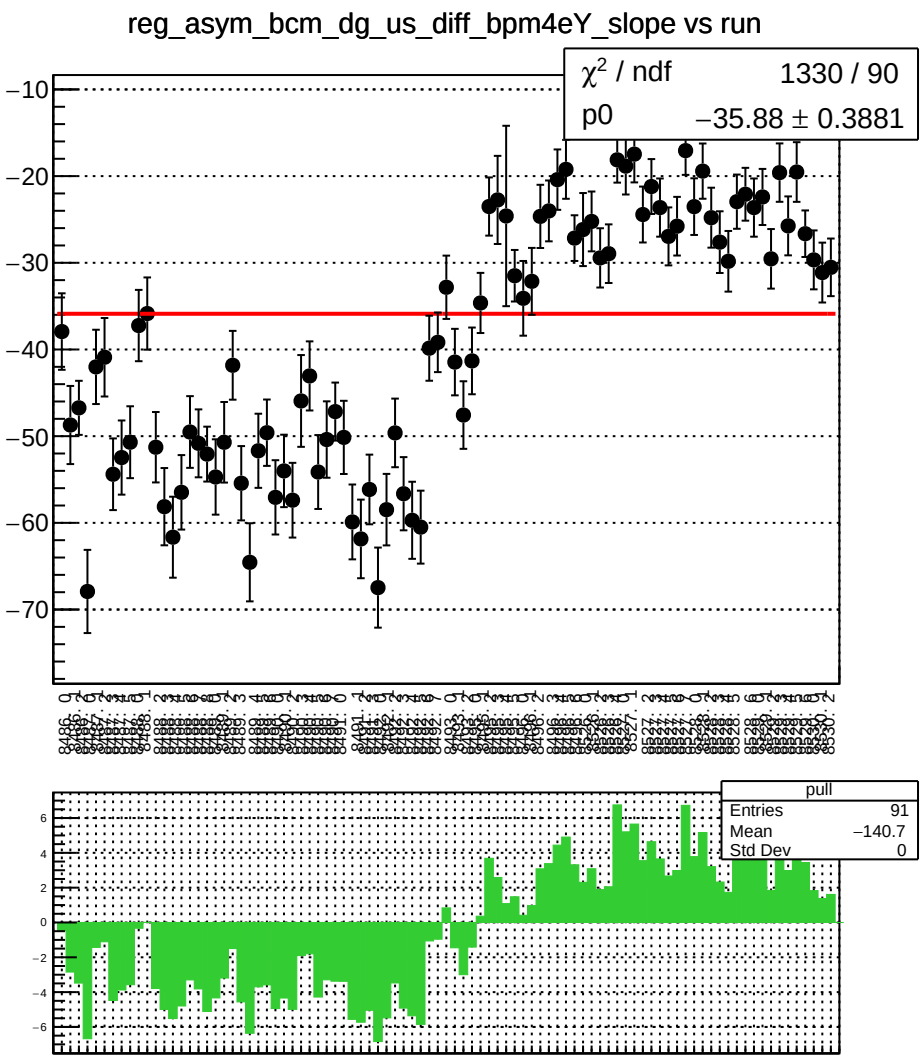

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 297.4 / 90
p0 10.22 ± 0.2305
pull
Entries 91
Mean −239.9
Std Dev 0
pull1D
Entries 91
Mean 0.09924
Std Dev 1.805

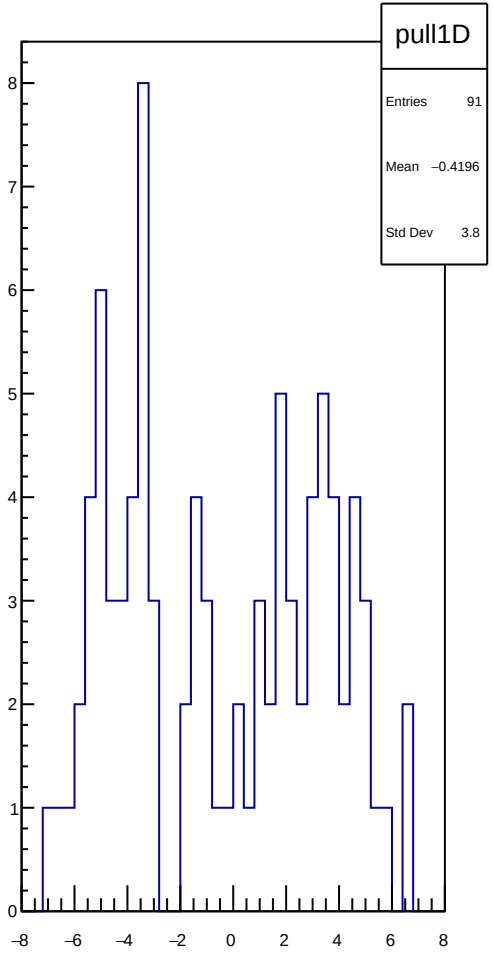

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 1460 / 90
p0 36.28 ± 0.3657
pull
Entries 91
Mean −126.8
Std Dev 0

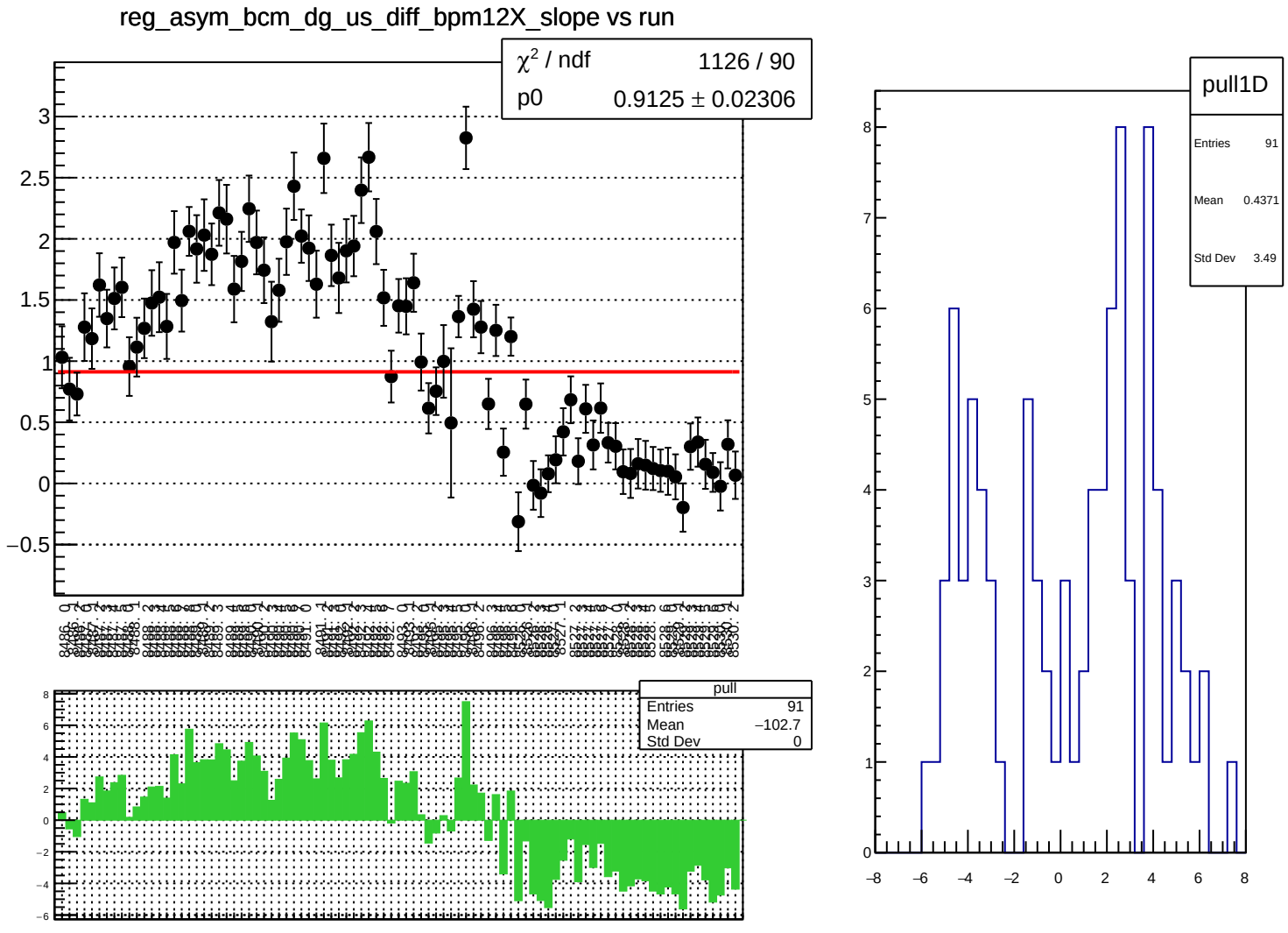

pull1D
Entries 91
Mean 0.4669
Std Dev 3.978

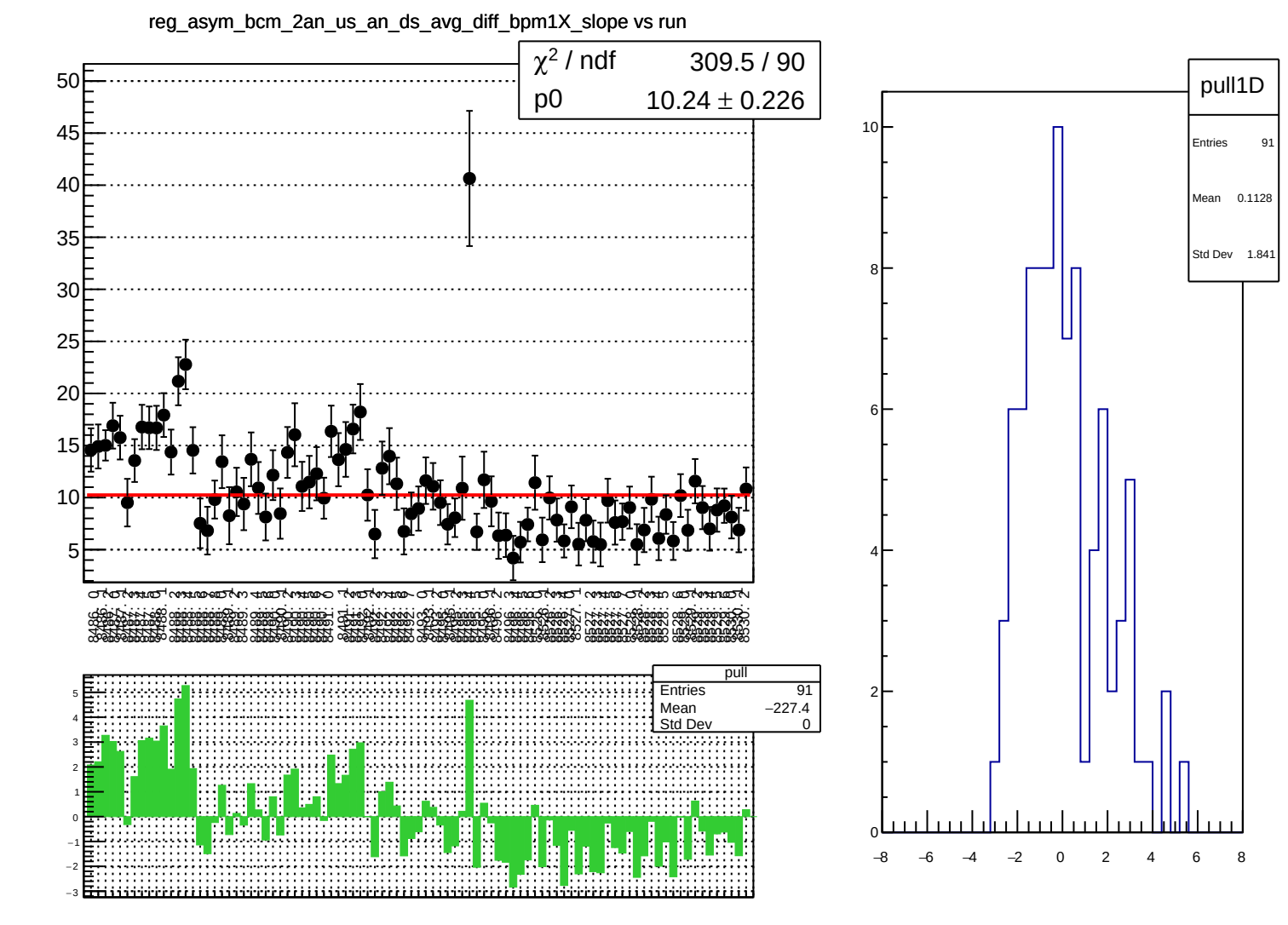

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 194.8 / 90
p0 −6.134 ± 0.2489
pull
Entries 91
Mean −141.4
Std Dev 0

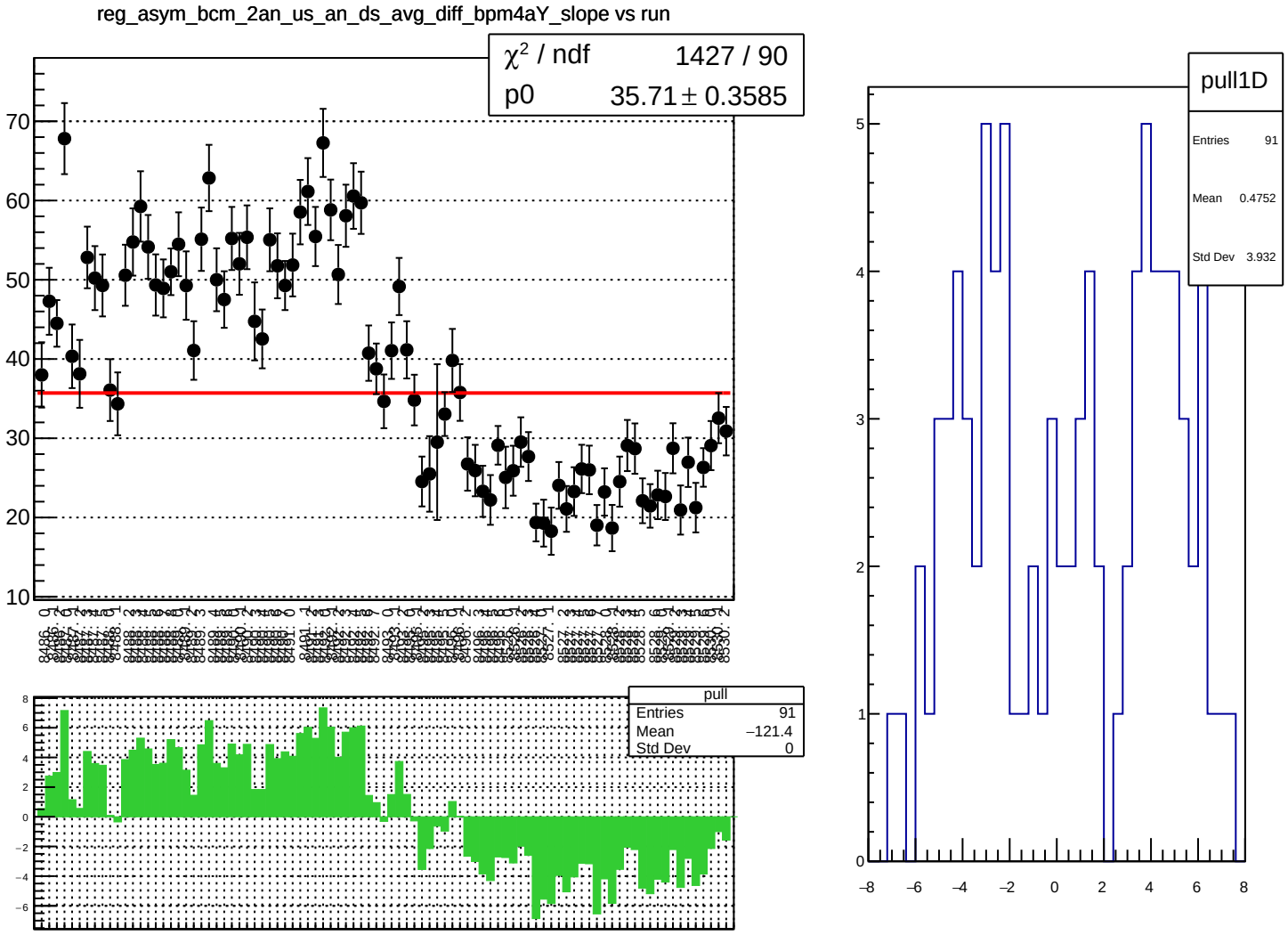

pull1D
Entries 91
Mean −0.04753
Std Dev 1.462

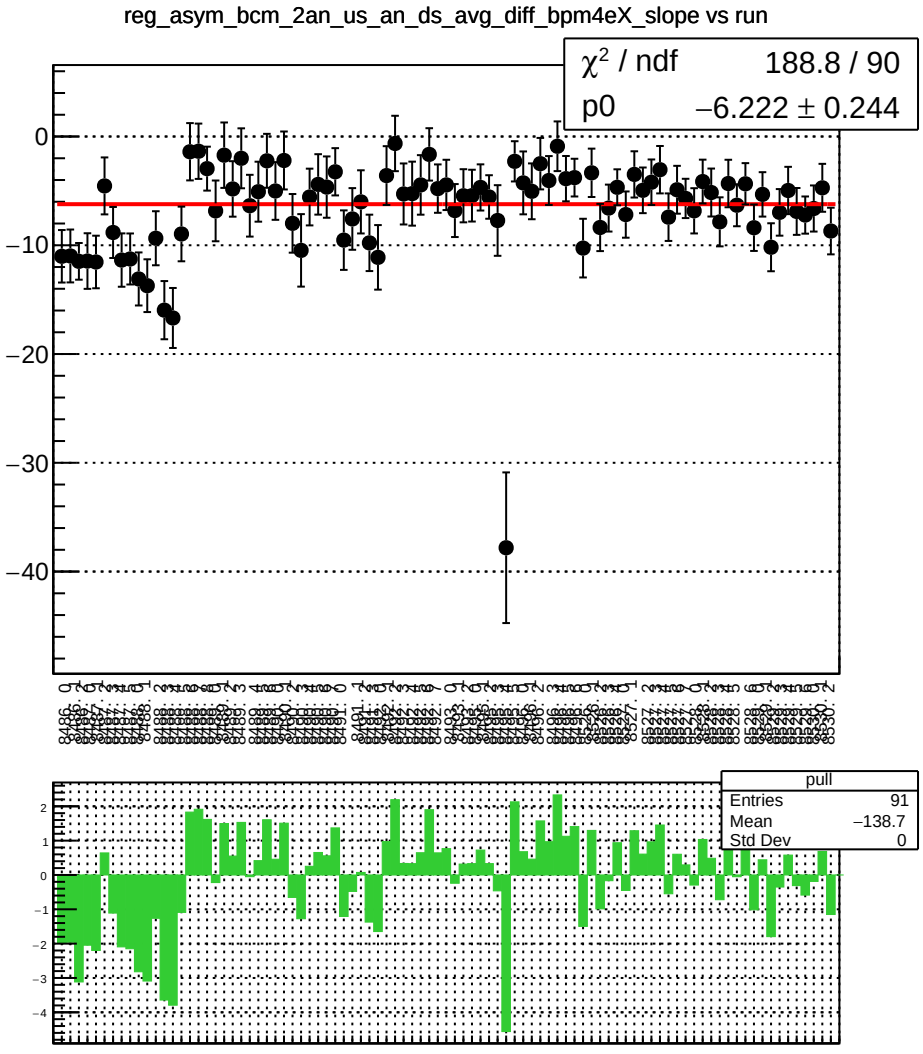

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 1330 / 90
p0 −35.88 ± 0.3881
pull
Entries 91
Mean −140.7
Std Dev 0

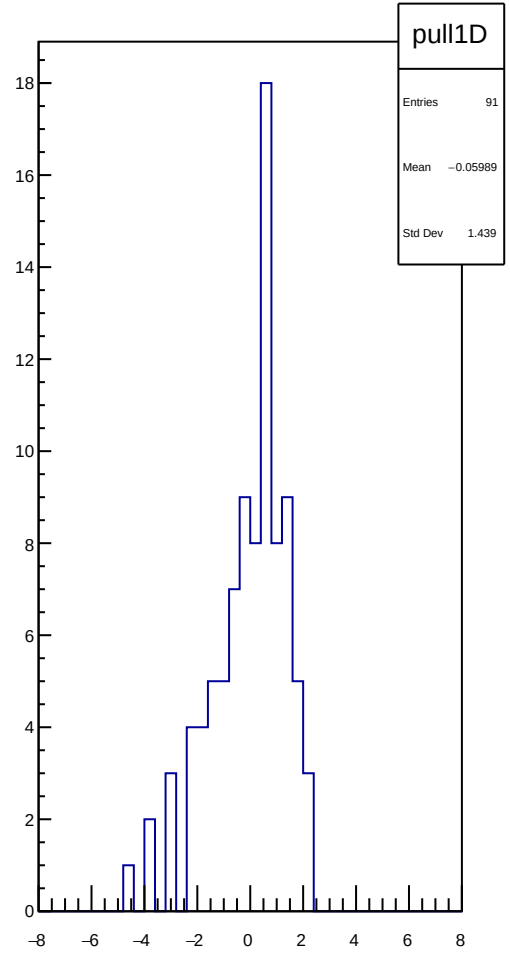

pull1D
Entries 91
Mean −0.4196
Std Dev 3.8

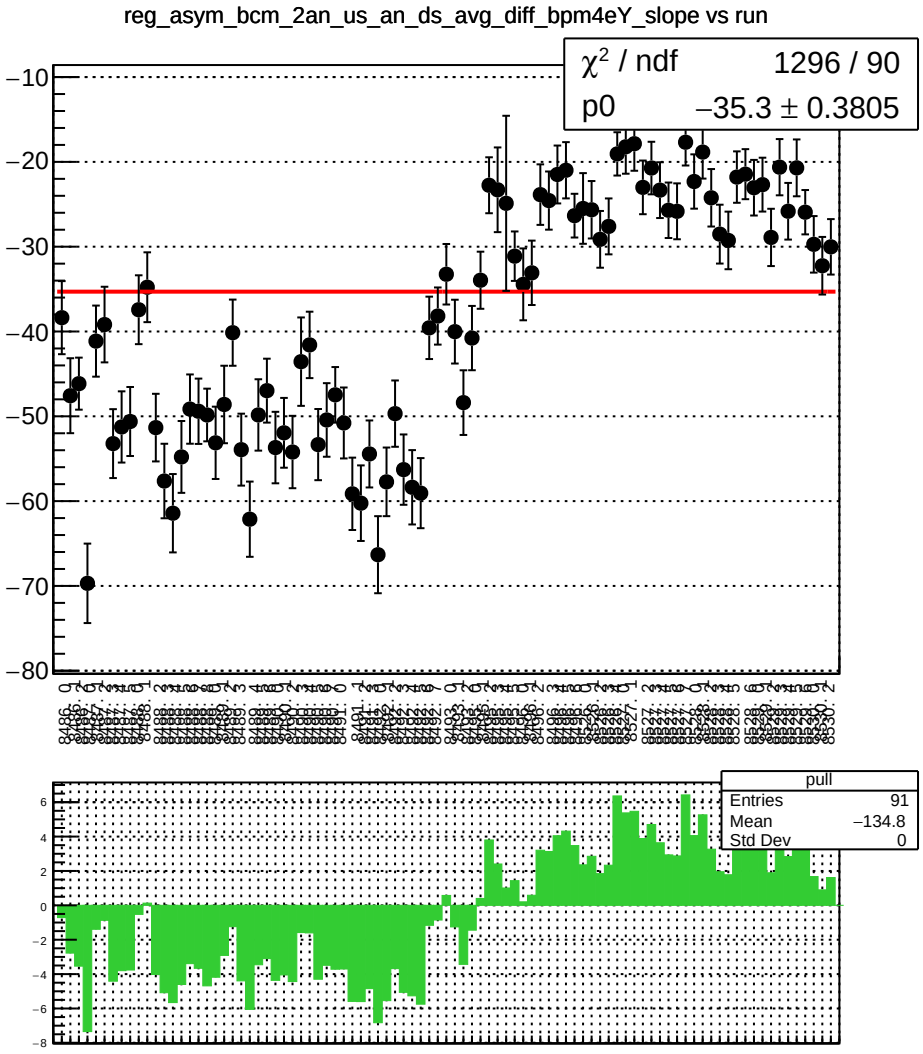

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 1126 / 90
p0 0.9125 ± 0.02306
pull
Entries 91
Mean −102.7
Std Dev 0
pull1D
Entries 91
Mean 0.4371
Std Dev 3.49

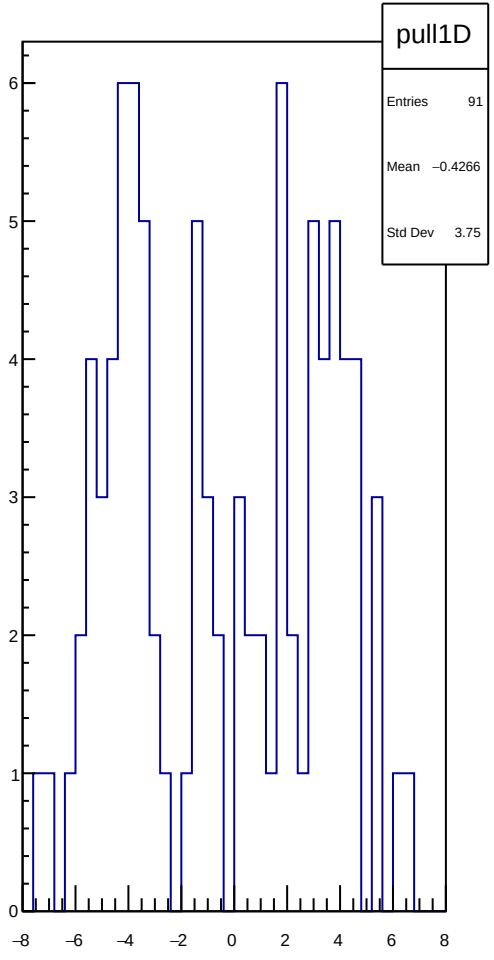

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 309.5 / 90
p0 10.24 ± 0.226
pull
Entries 91
Mean −227.4
Std Dev 0
pull1D
Entries 91
Mean 0.1128
Std Dev 1.841

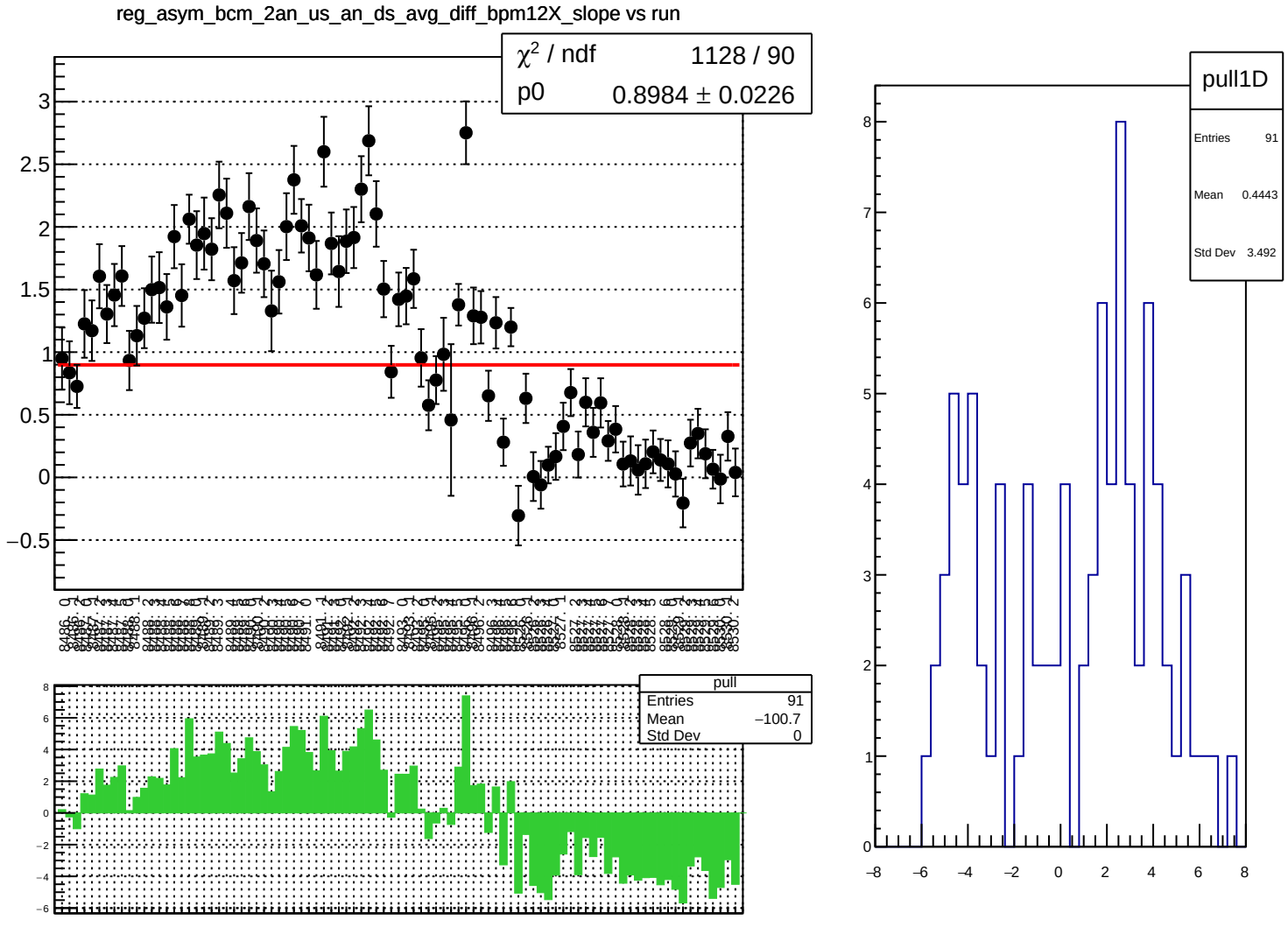

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 1427 / 90
p0 35.71 ± 0.3585
pull
Entries 91
Mean −121.4
Std Dev 0
pull1D
Entries 91
Mean 0.4752
Std Dev 3.932

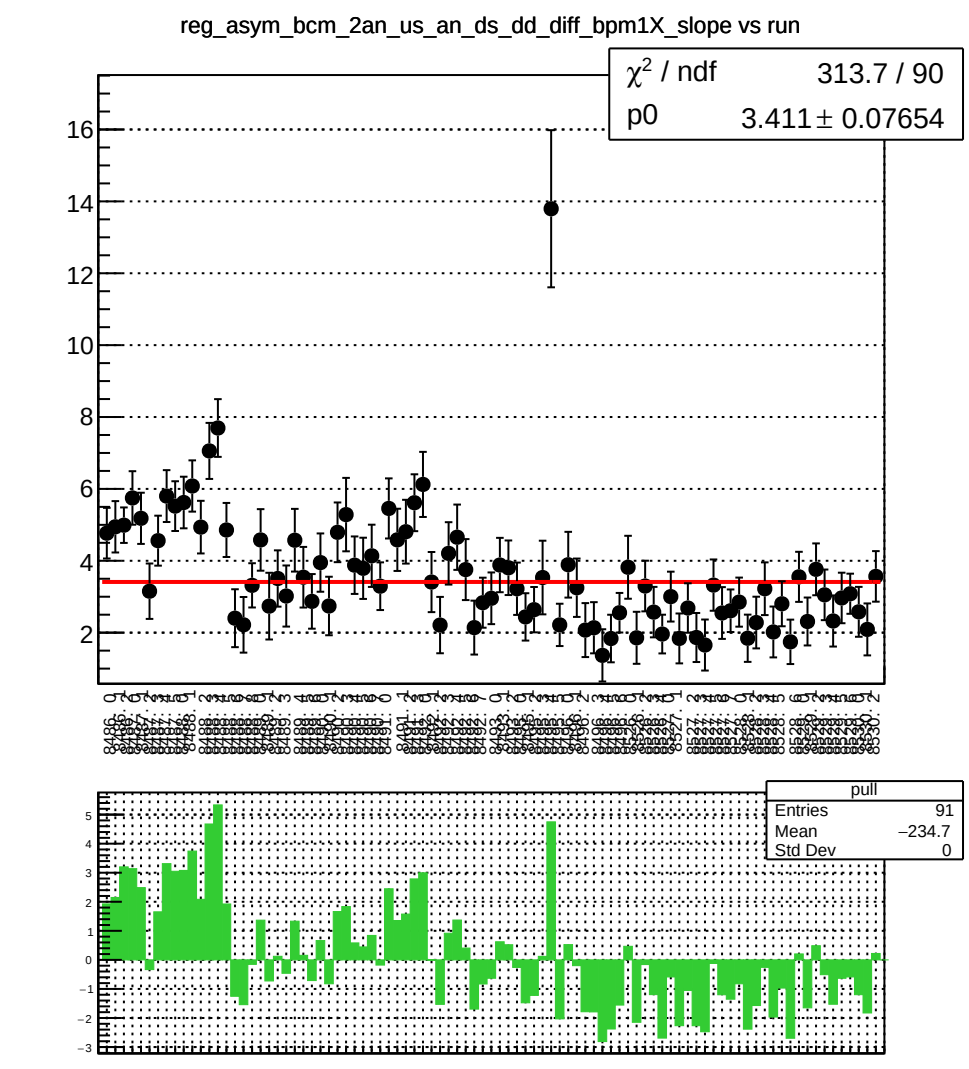

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 188.8 / 90
p0 −6.222 ± 0.244
pull
Entries 91
Mean −138.7
Std Dev 0

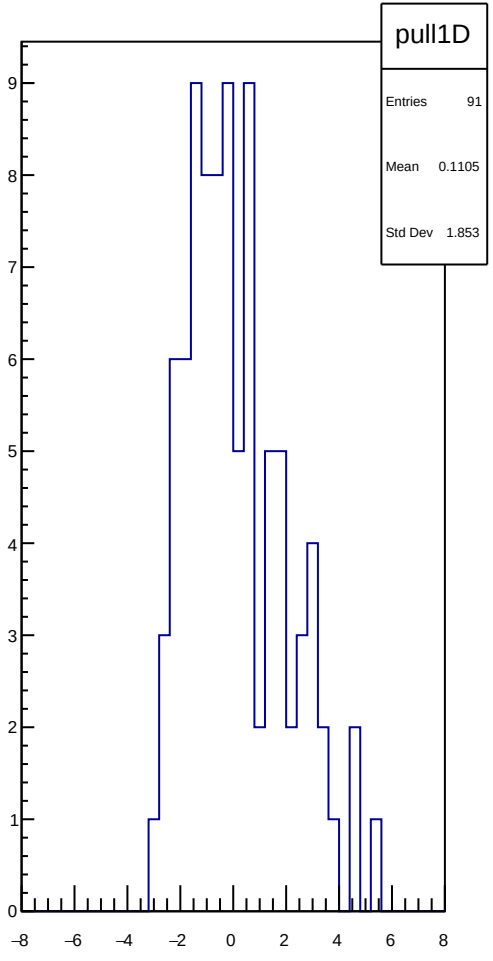

pull1D
Entries 91
Mean −0.05989
Std Dev 1.439

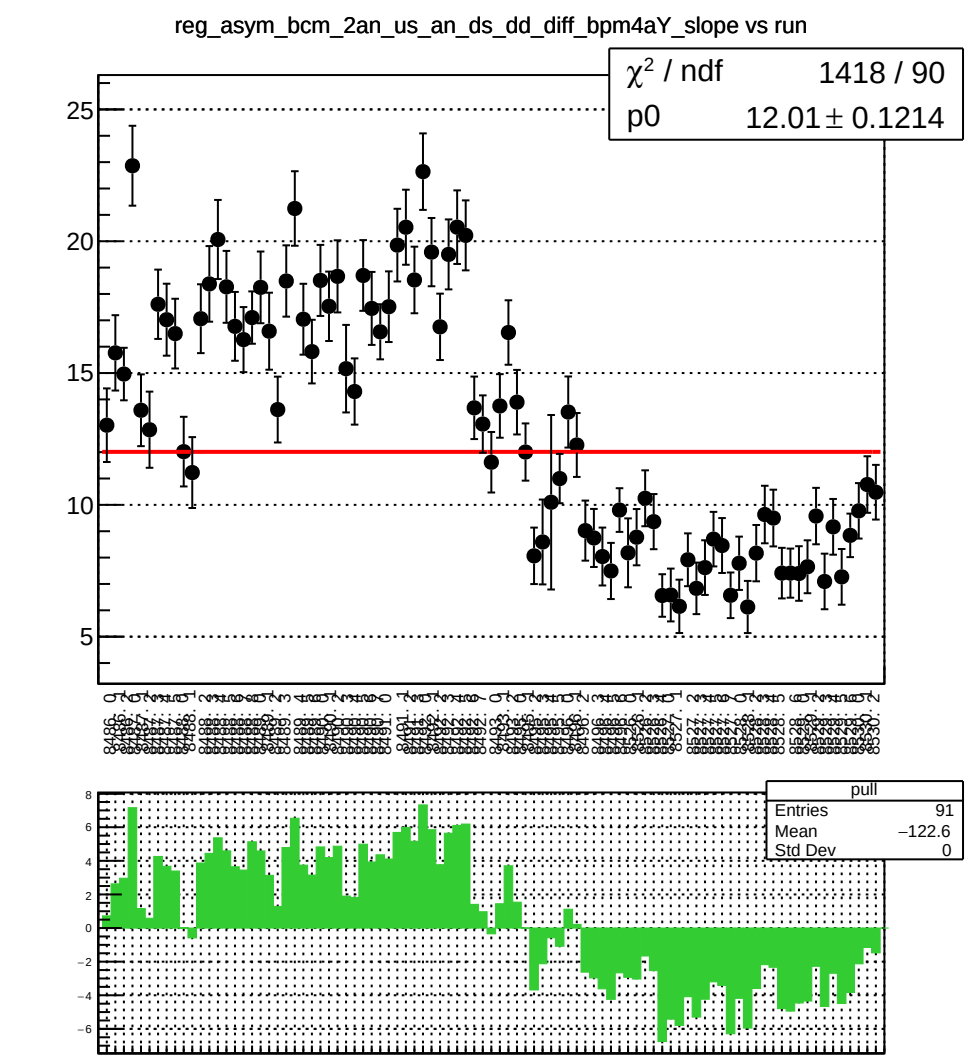

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 1296 / 90
p0 −35.3 ± 0.3805
pull
Entries 91
Mean −134.8
Std Dev 0

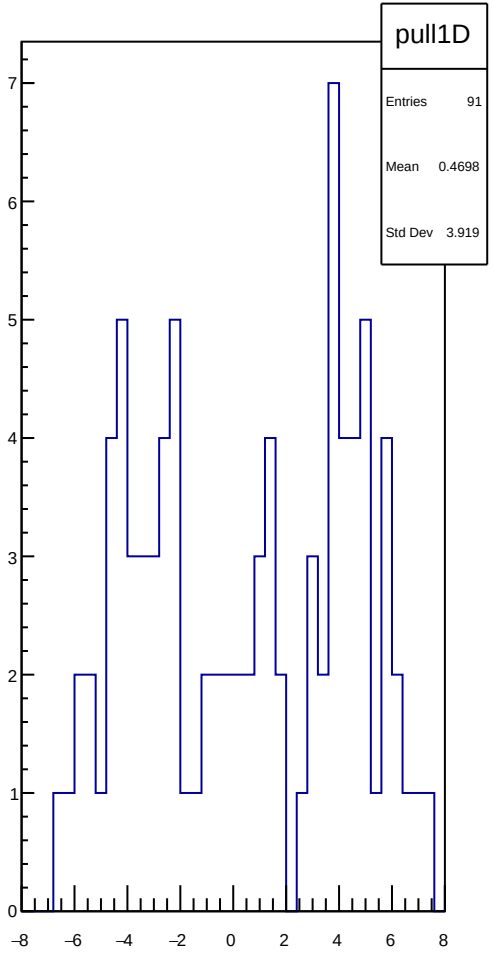

pull1D
Entries 91
Mean −0.4266
Std Dev 3.75

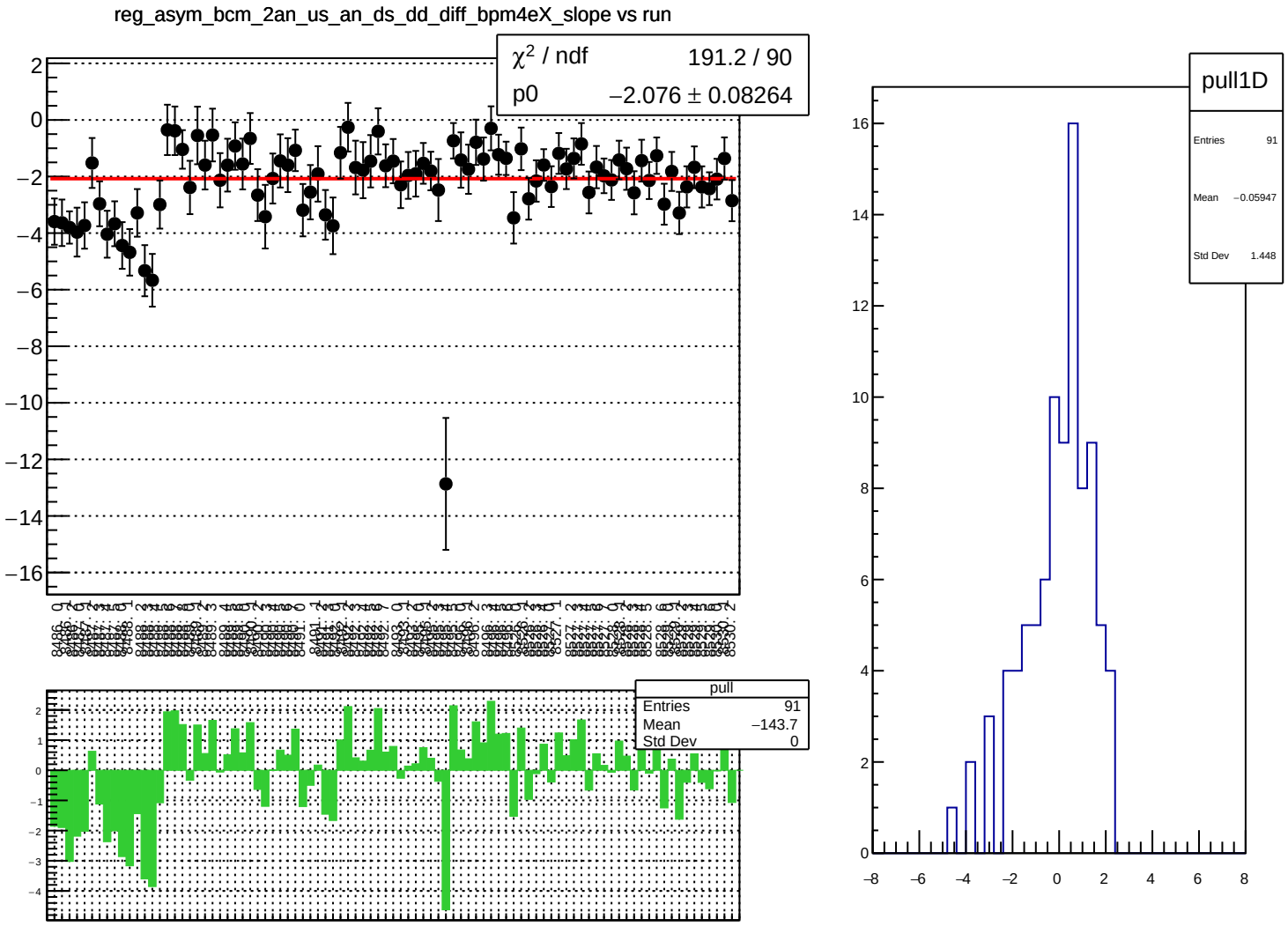

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 1128 / 90
p0 0.8984 ± 0.0226
pull
Entries 91
Mean −100.7
Std Dev 0
pull1D
Entries 91
Mean 0.4443
Std Dev 3.492

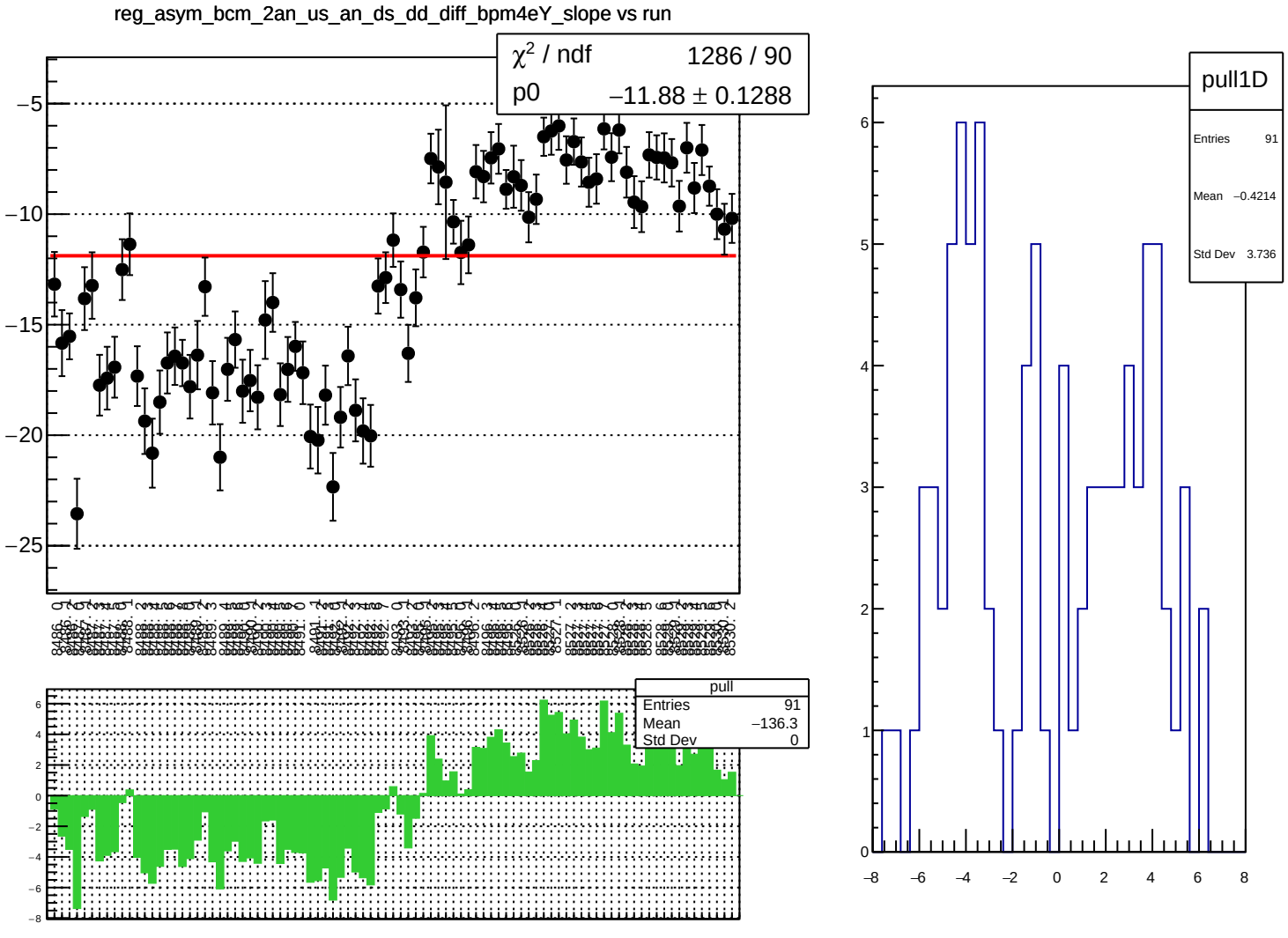

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 313.7 / 90
p0 3.411 ± 0.07654
pull
Entries 91
Mean −234.7
Std Dev 0

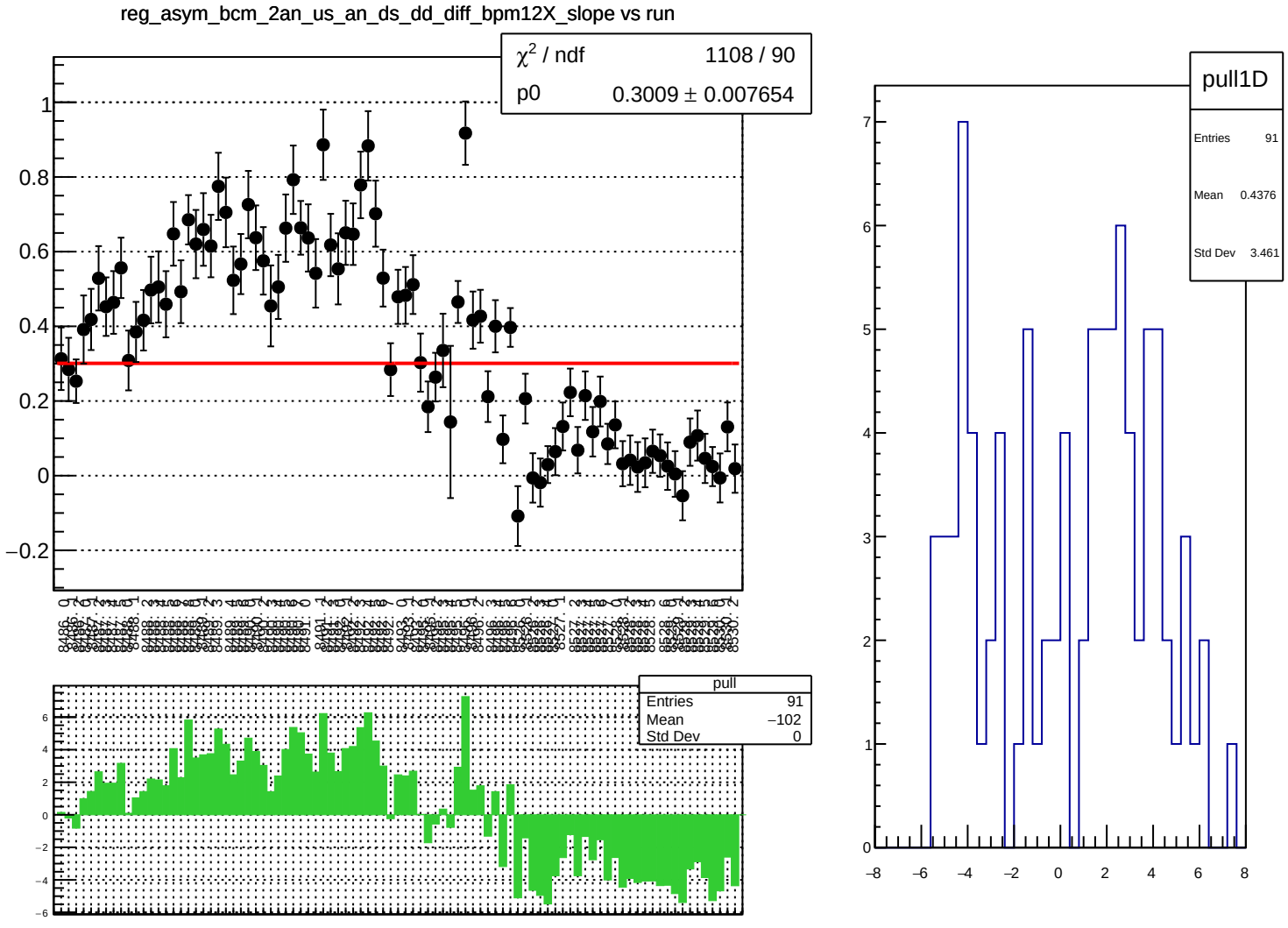

pull1D
Entries 91
Mean 0.1105
Std Dev 1.853

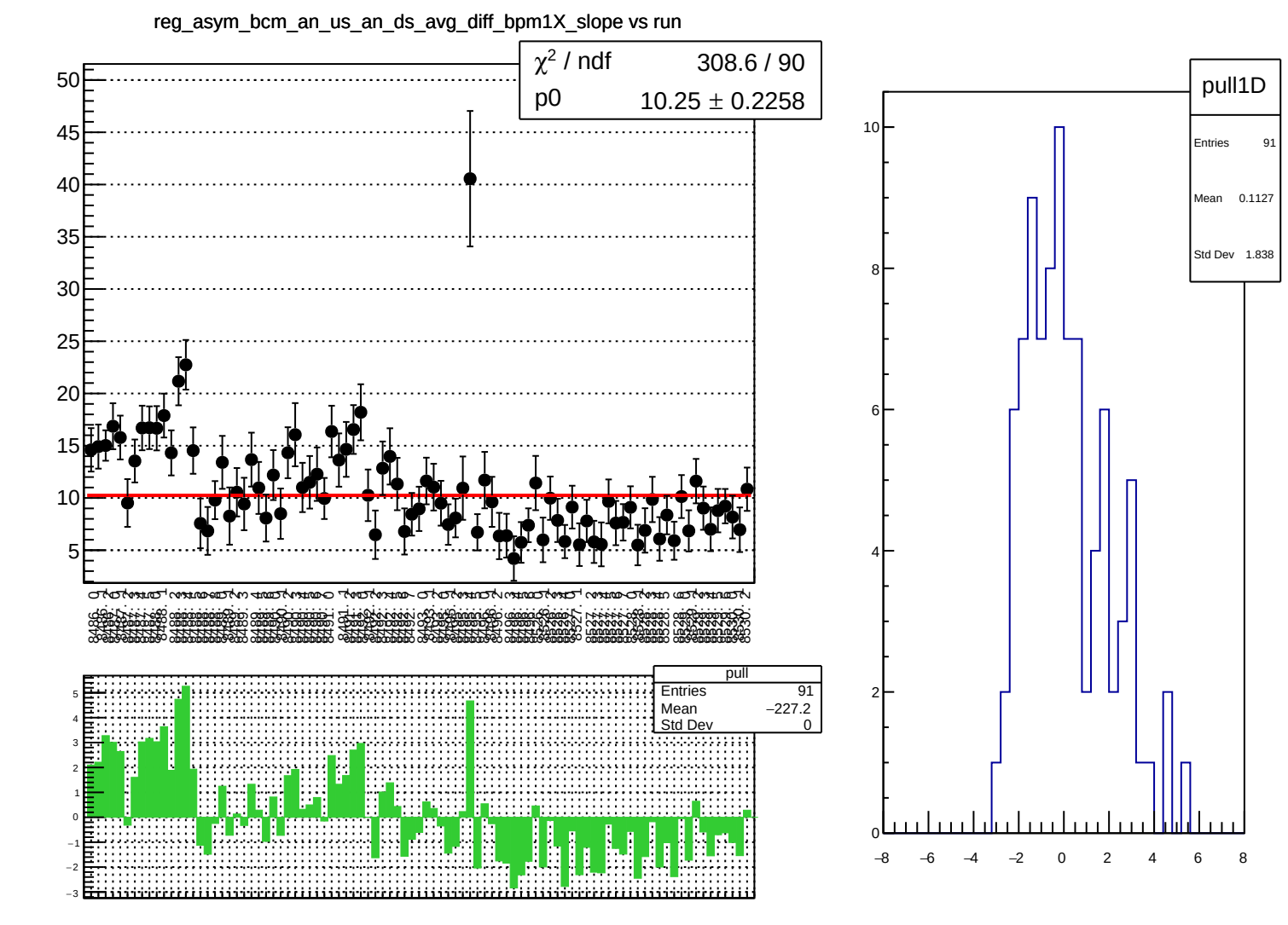

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 1418 / 90
p0 12.01 ± 0.1214
pull
Entries 91
Mean −122.6
Std Dev 0

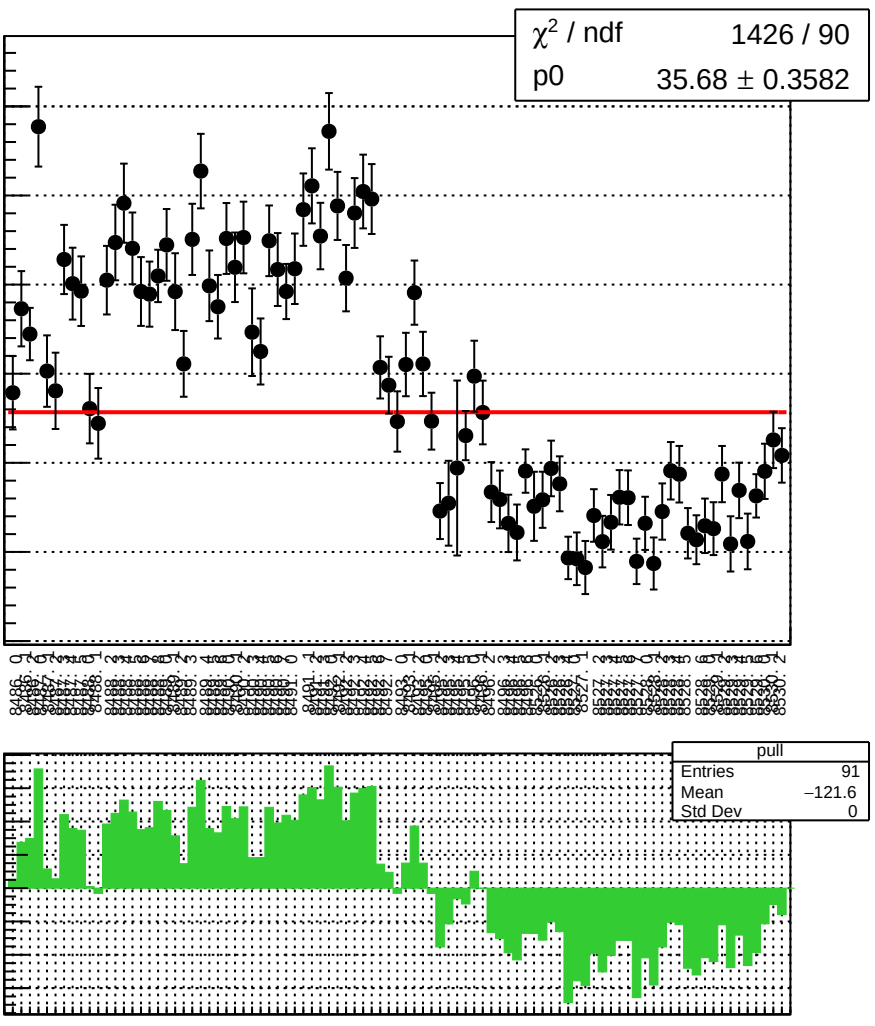

pull1D
Entries 91
Mean 0.4698
Std Dev 3.919

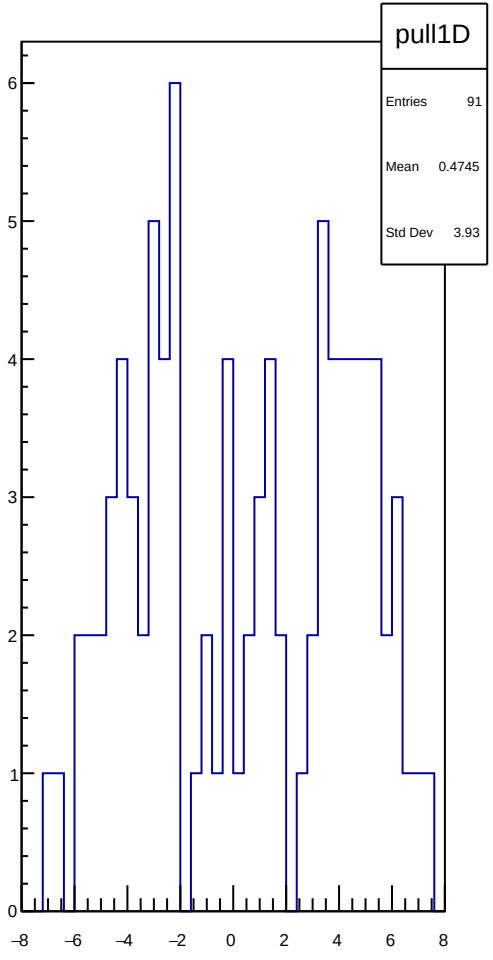

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 191.2 / 90
p0 −2.076 ± 0.08264
pull
Entries 91
Mean −143.7
Std Dev 0
pull1D
Entries 91
Mean −0.05947
Std Dev 1.448

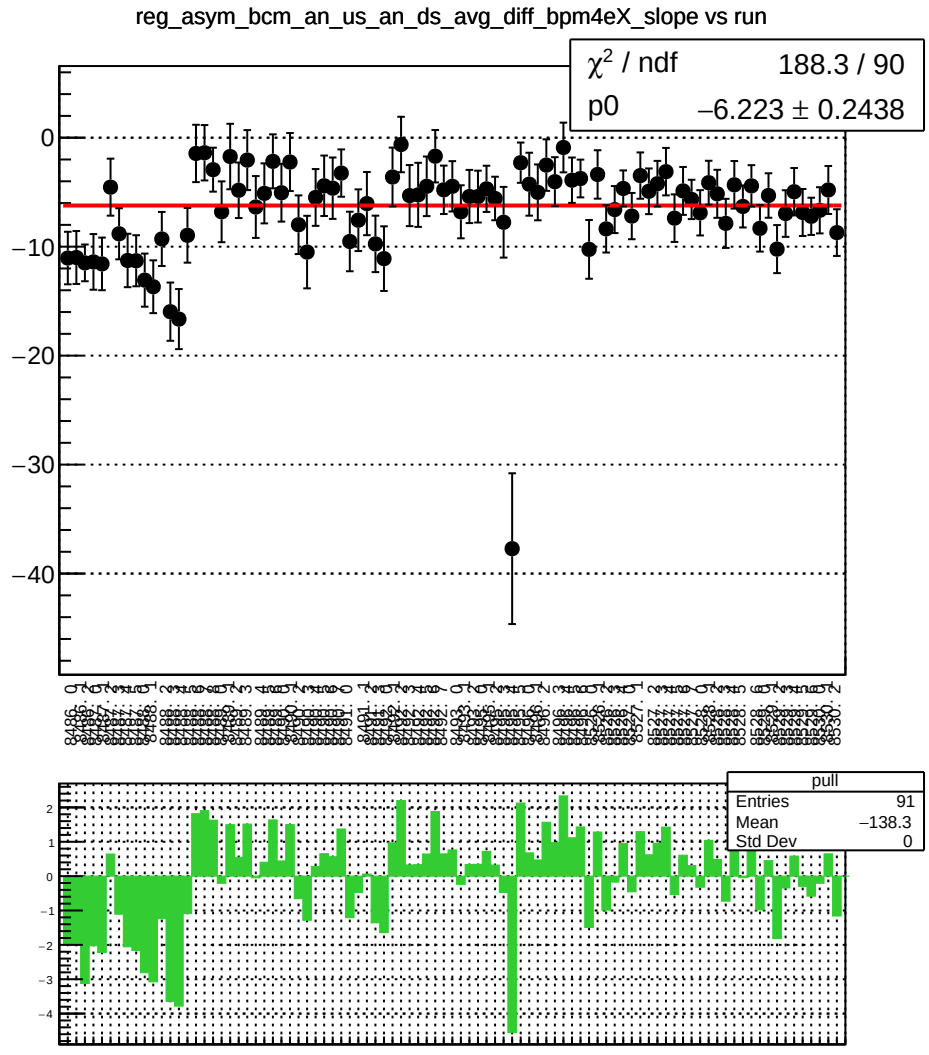

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 1286 / 90
p0 −11.88 ± 0.1288
pull
Entries 91
Mean −136.3
Std Dev 0
pull1D
Entries 91
Mean −0.4214
Std Dev 3.736

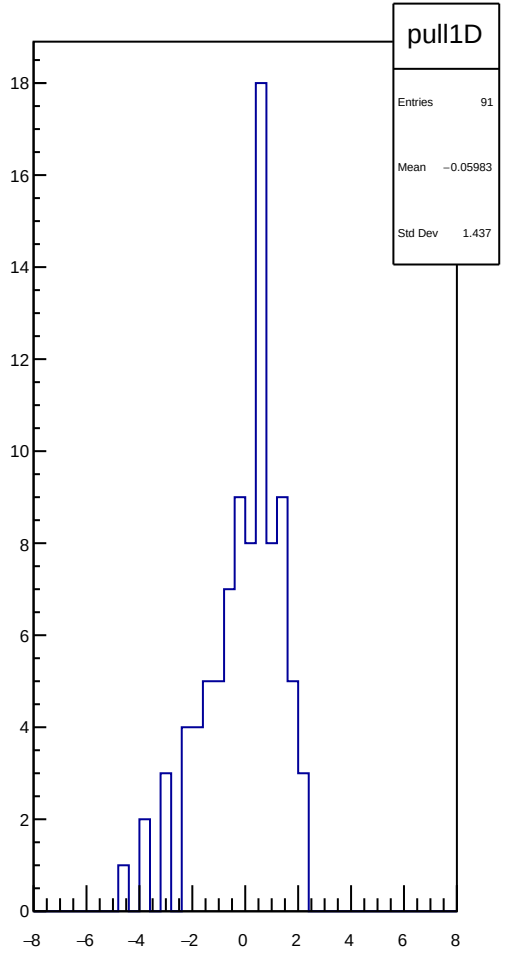

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 1108 / 90
p0 0.3009 ± 0.007654
pull
Entries 91
Mean −102
Std Dev 0
pull1D
Entries 91
Mean 0.4376
Std Dev 3.461

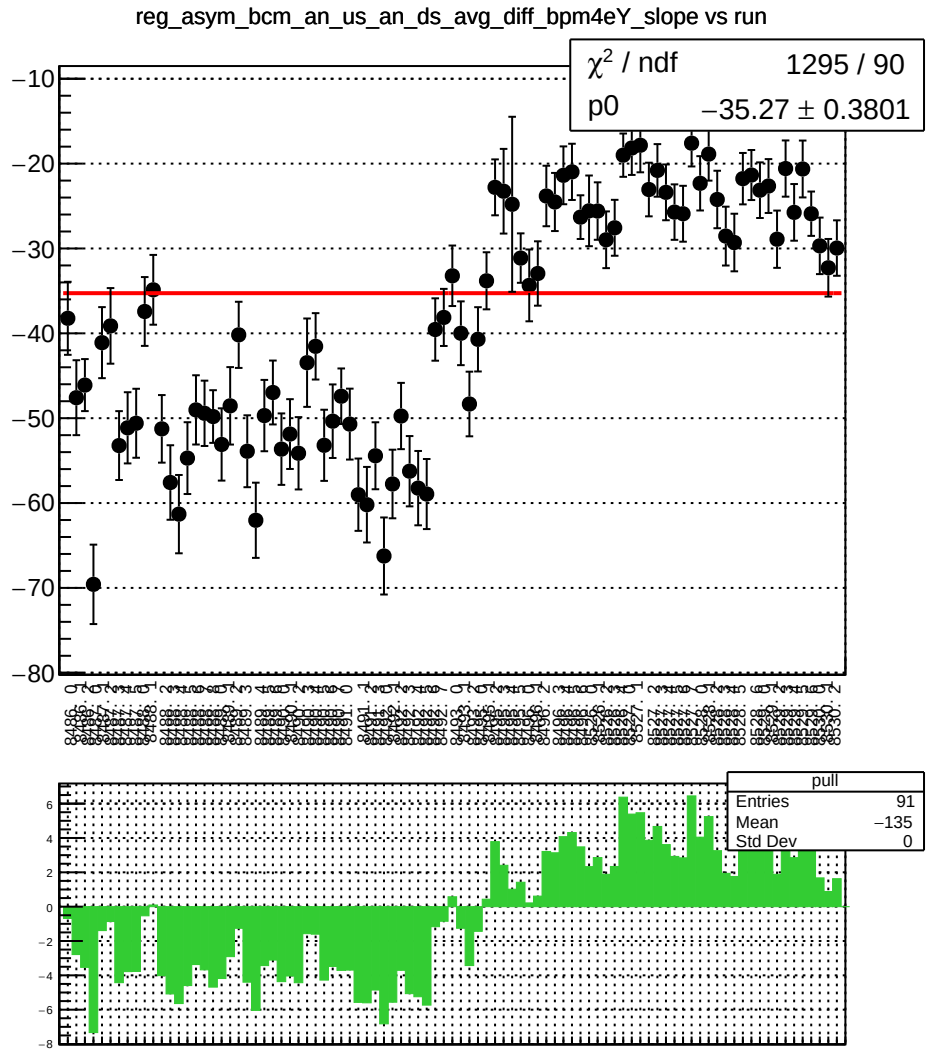

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 308.6 / 90
p0 10.25 ± 0.2258
pull
Entries 91
Mean −227.2
Std Dev 0
pull1D
Entries 91
Mean 0.1127
Std Dev 1.838

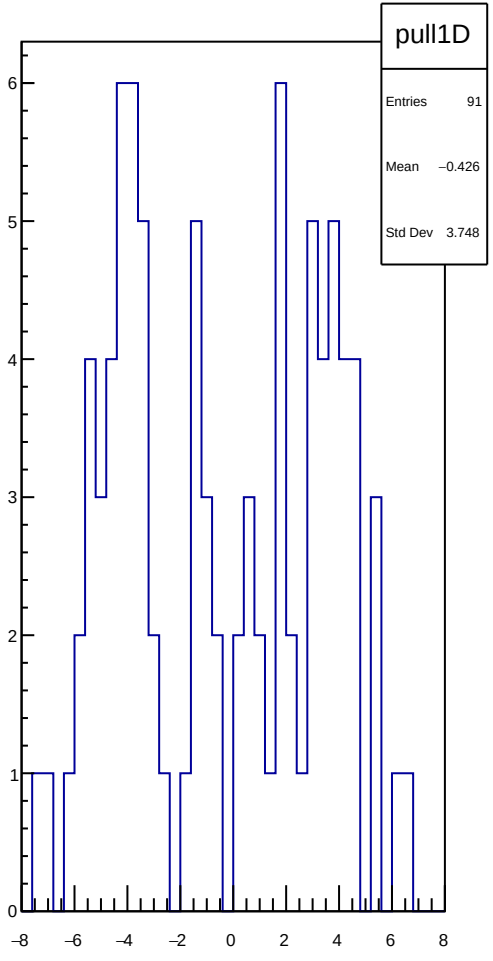

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 1426 / 90
p0 35.68 ± 0.3582
pull
Entries 91
Mean −121.6
Std Dev 0

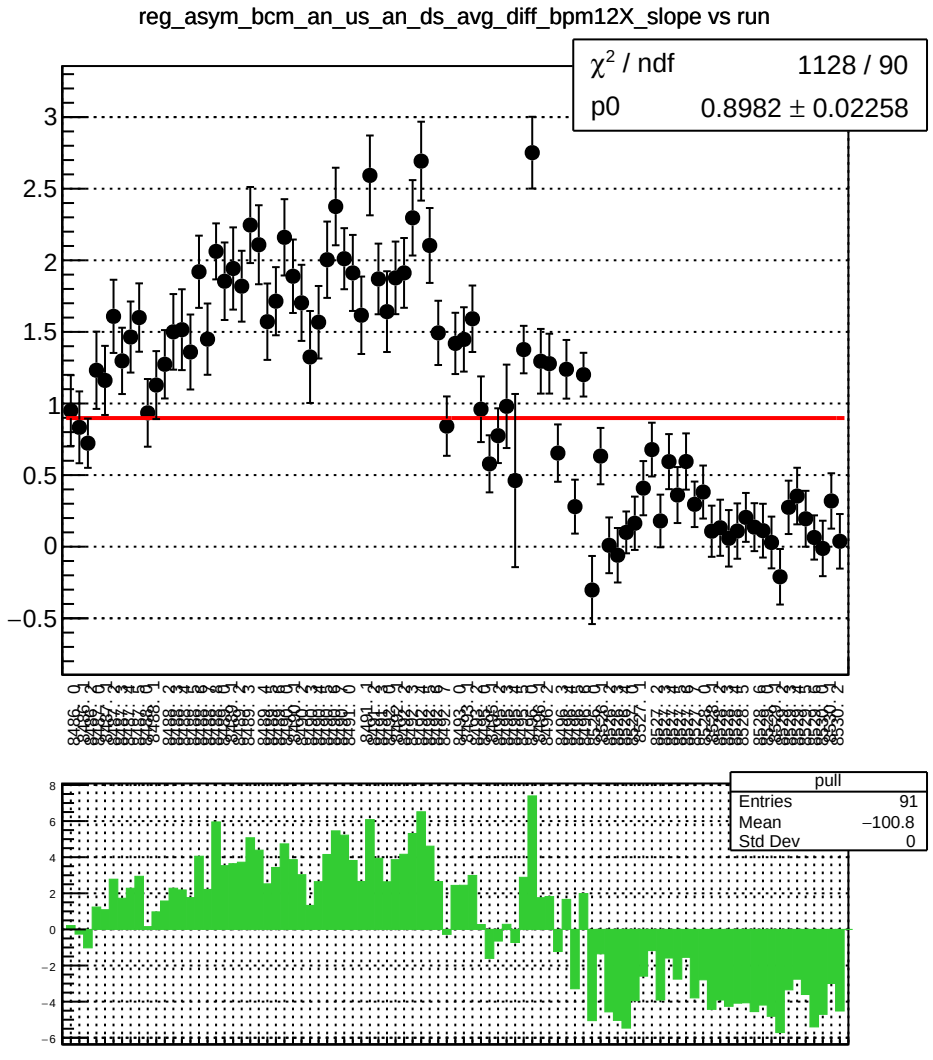

pull1D
Entries 91
Mean 0.4745
Std Dev 3.93

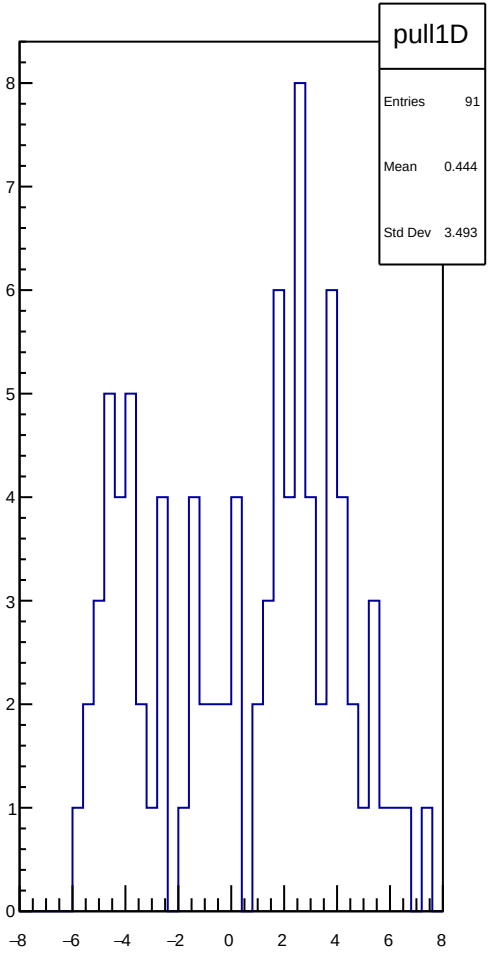

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 188.3 / 90
p0 −6.223 ± 0.2438
pull
Entries 91
Mean −138.3
Std Dev 0

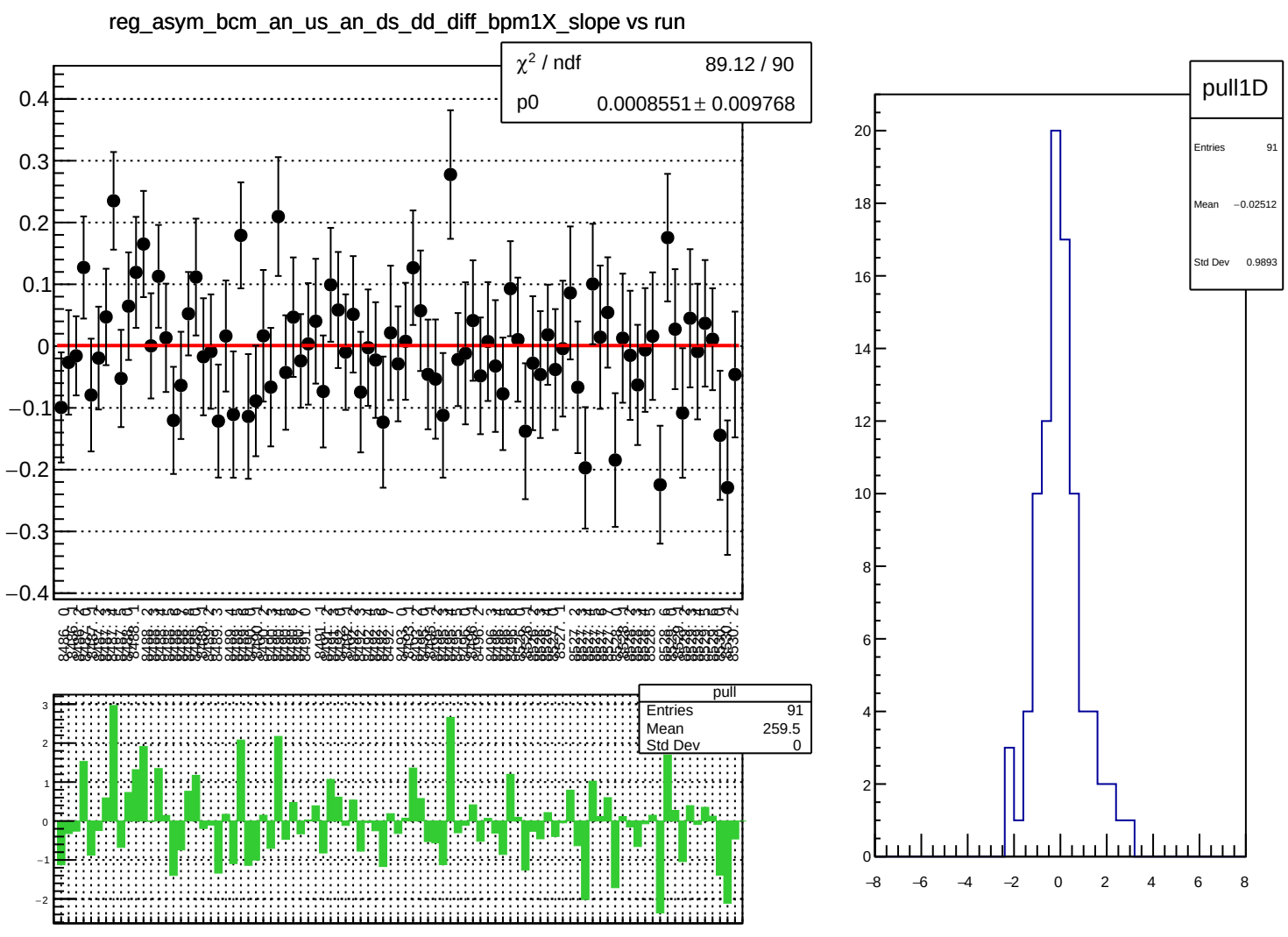

pull1D
Entries 91
Mean −0.05983
Std Dev 1.437

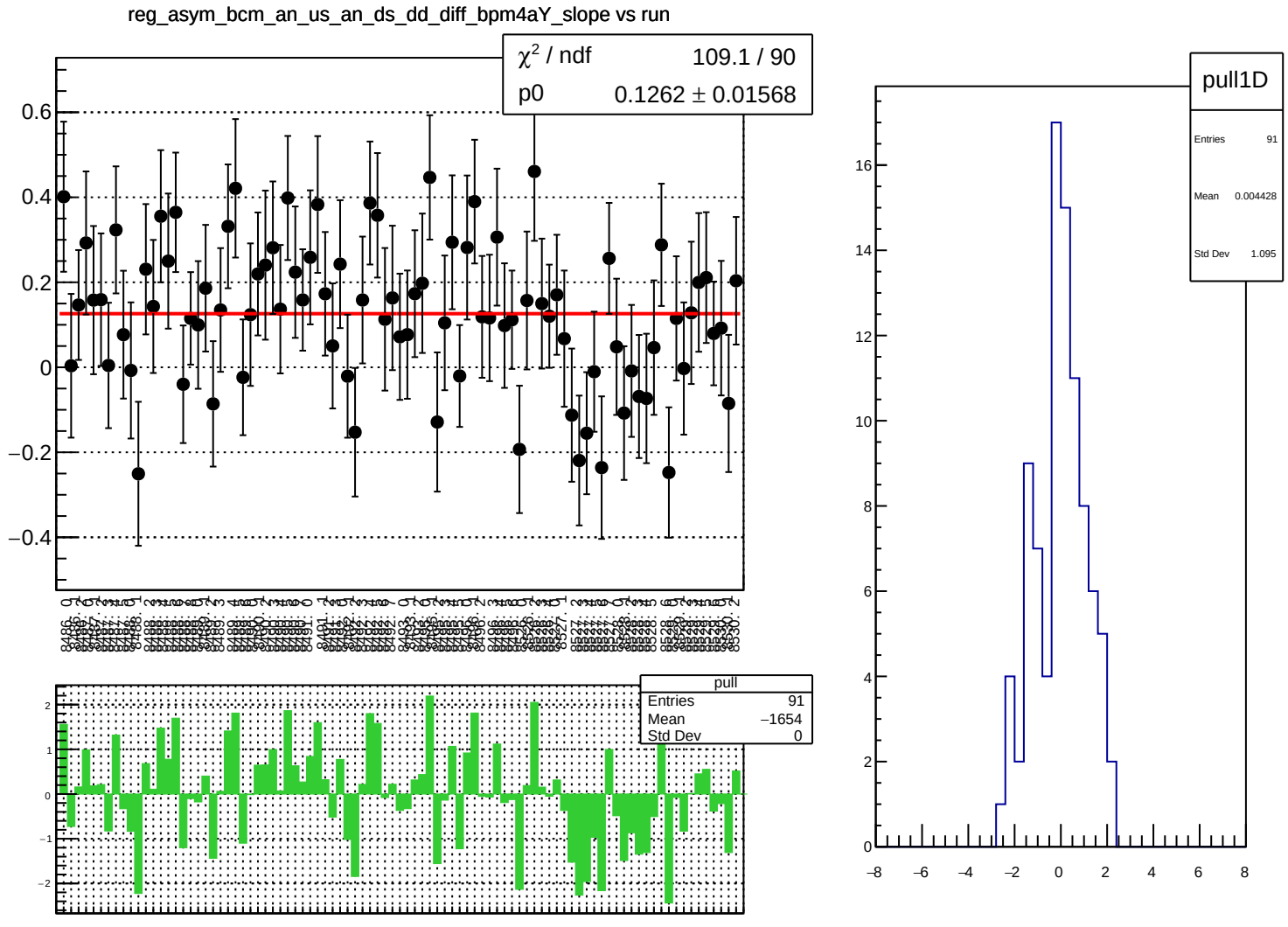

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 1295 / 90
p0 −35.27 ± 0.3801
pull
Entries 91
Mean −135
Std Dev 0

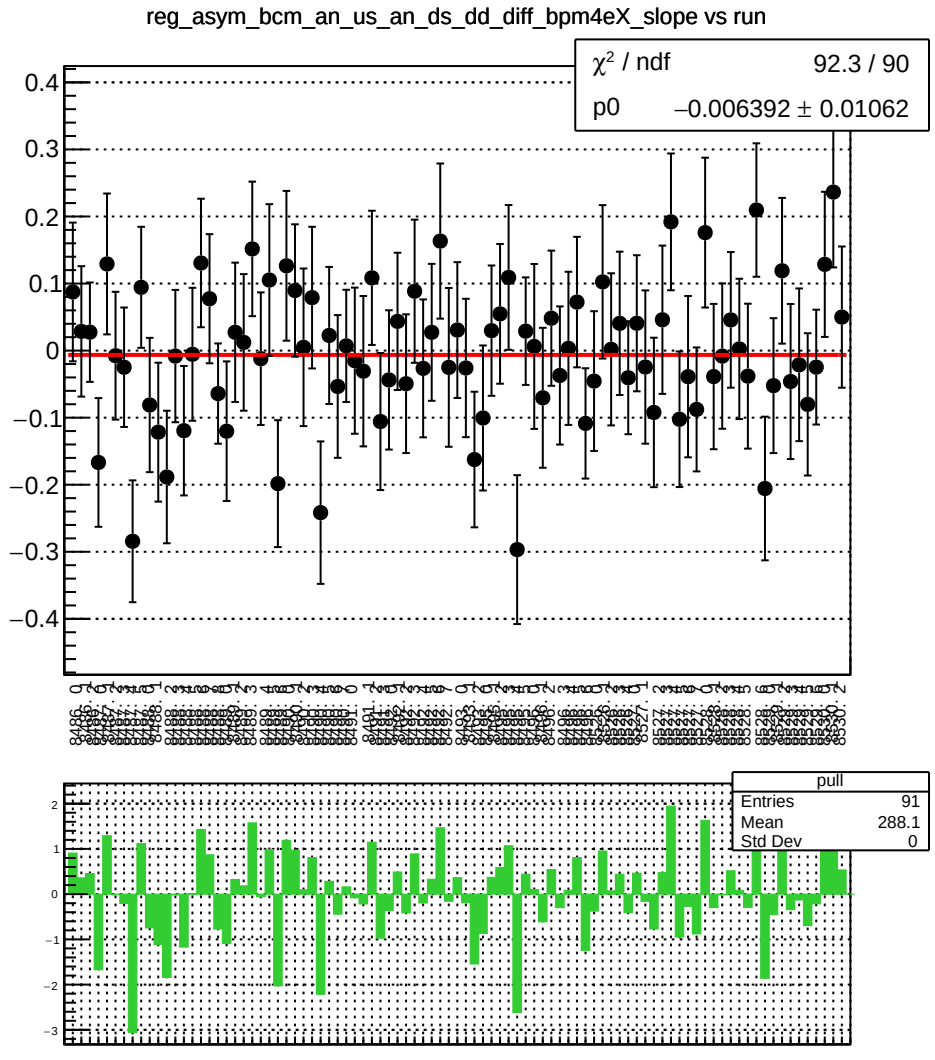

pull1D
Entries 91
Mean −0.426
Std Dev 3.748

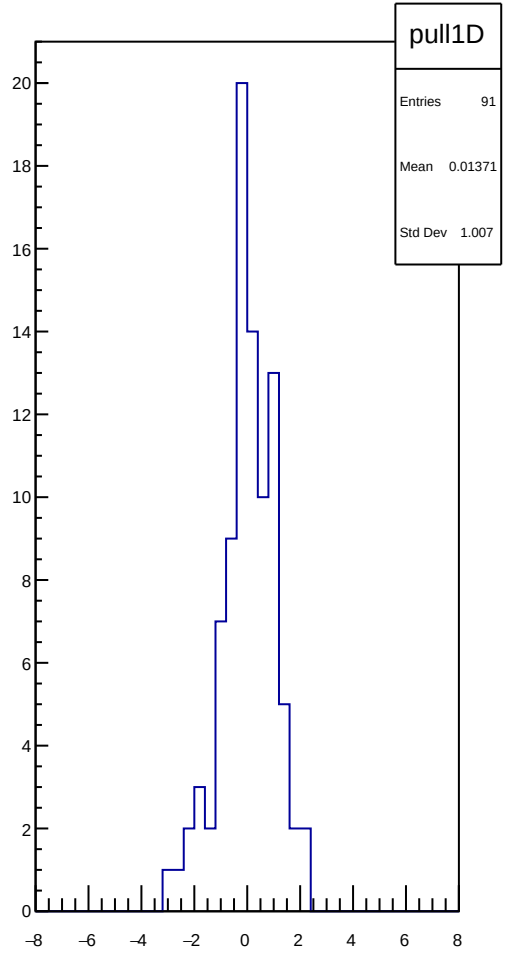

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 1128 / 90
p0 0.8982 ± 0.02258
pull
Entries 91
Mean −100.8
Std Dev 0

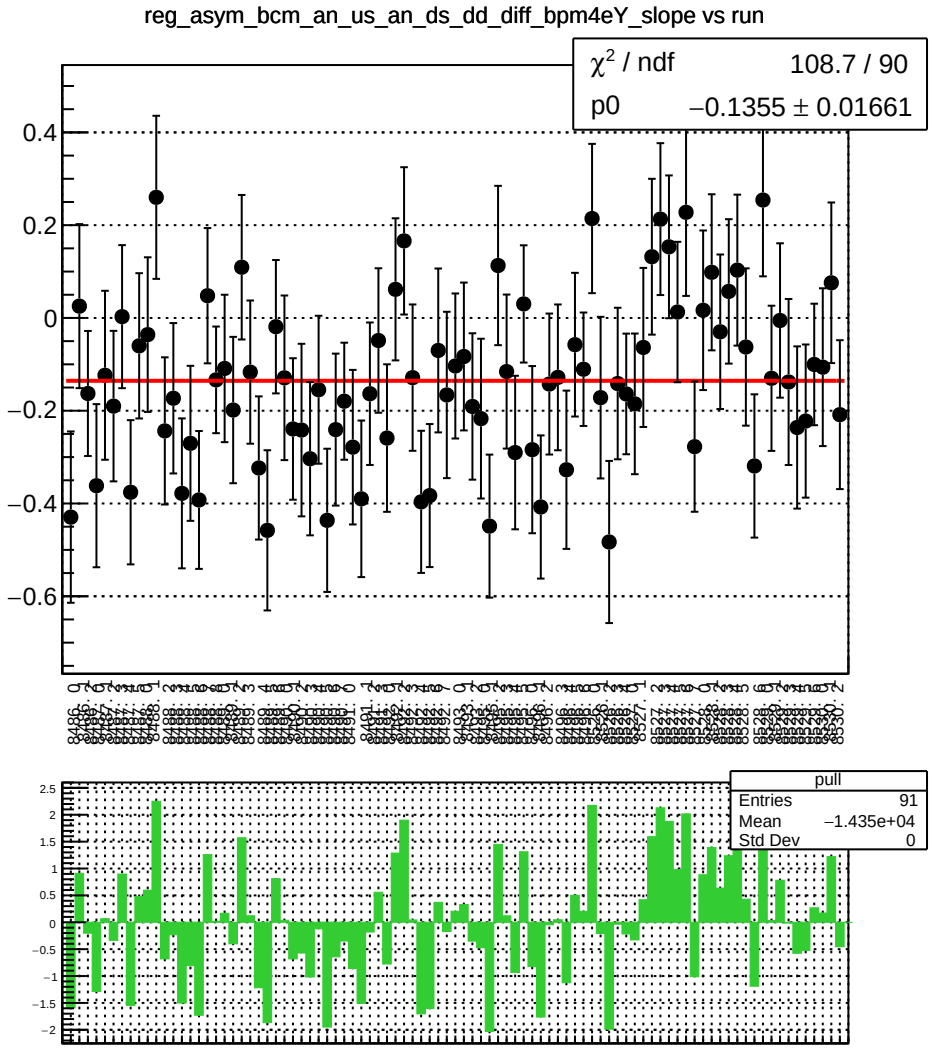

pull1D
Entries 91
Mean 0.444
Std Dev 3.493

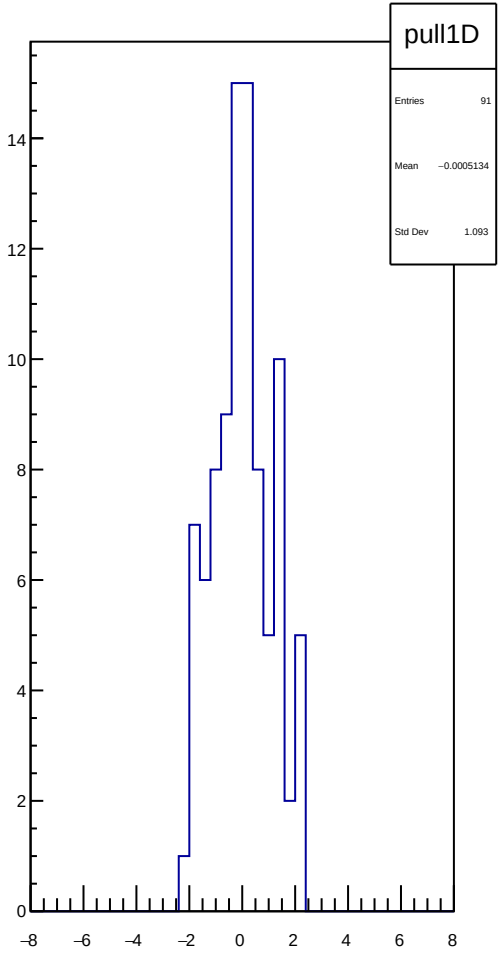

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 89.12 / 90
p0 0.0008551 ± 0.009768
pull
Entries 91
Mean 259.5
Std Dev 0
pull1D
Entries 91
Mean −0.02512
Std Dev 0.9893

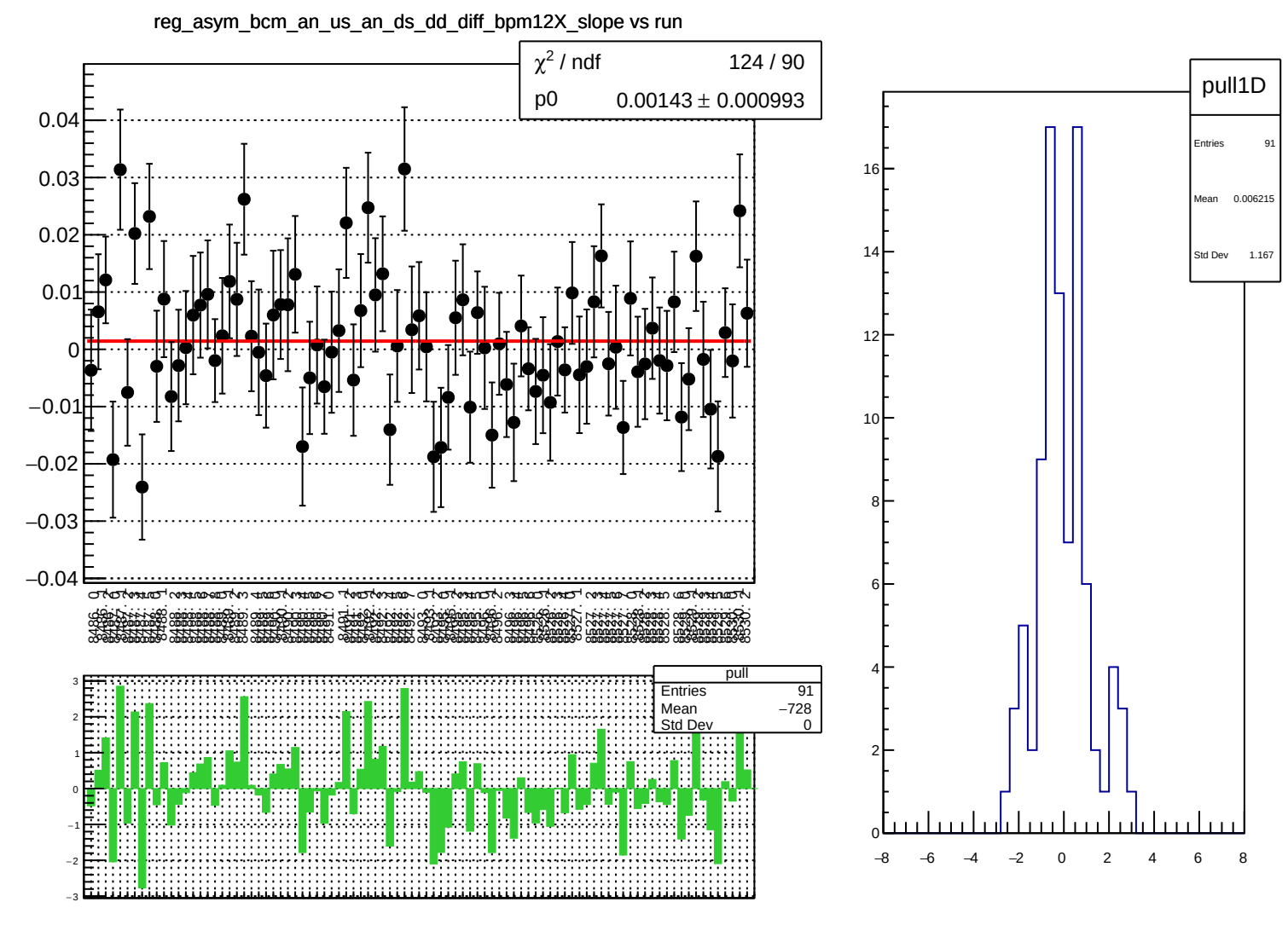

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 109.1 / 90
p0 0.1262 ± 0.01568
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 91
Mean −1654
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.004428
Std Dev 1.095
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

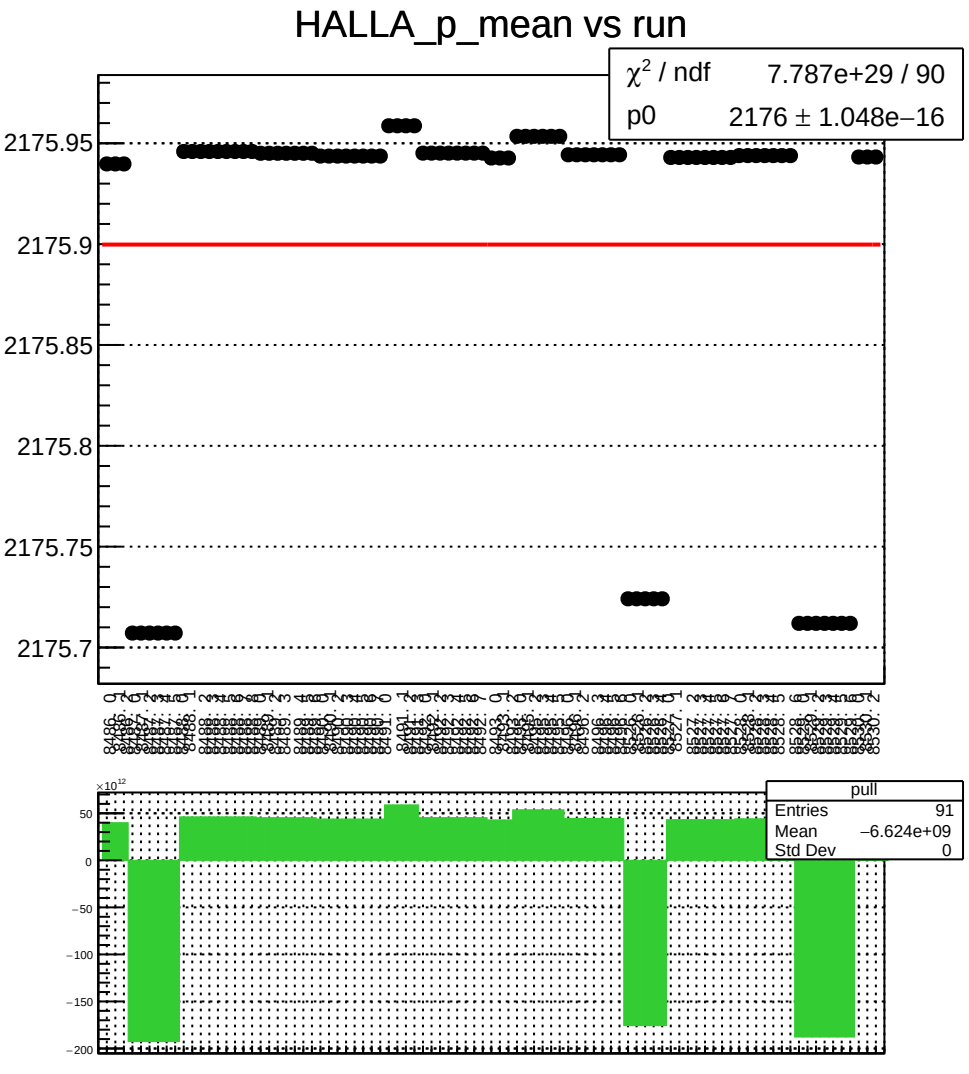

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 92.3 / 90
p0 −0.006392 ± 0.01062
pull
Entries 91
Mean 288.1
Std Dev 0

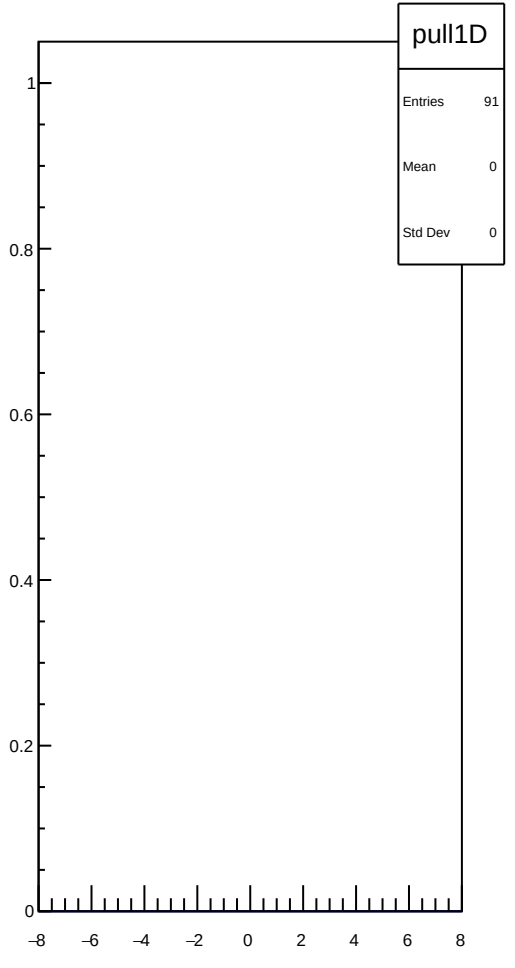

pull1D
Entries 91
Mean 0.01371
Std Dev 1.007

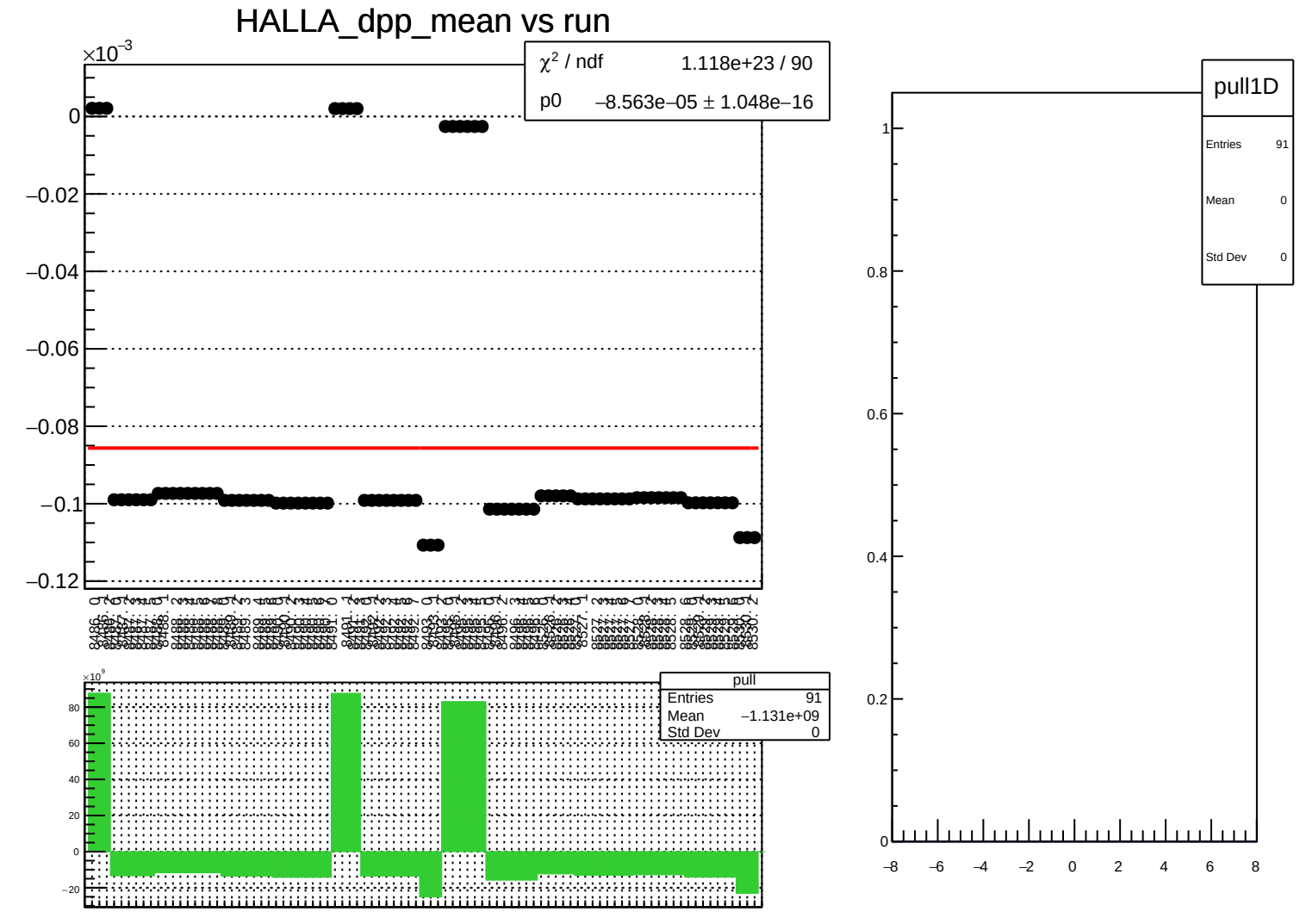

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 108.7 / 90
p0 −0.1355 ± 0.01661
pull
Entries 91
Mean −1.435e+04
Std Dev 0

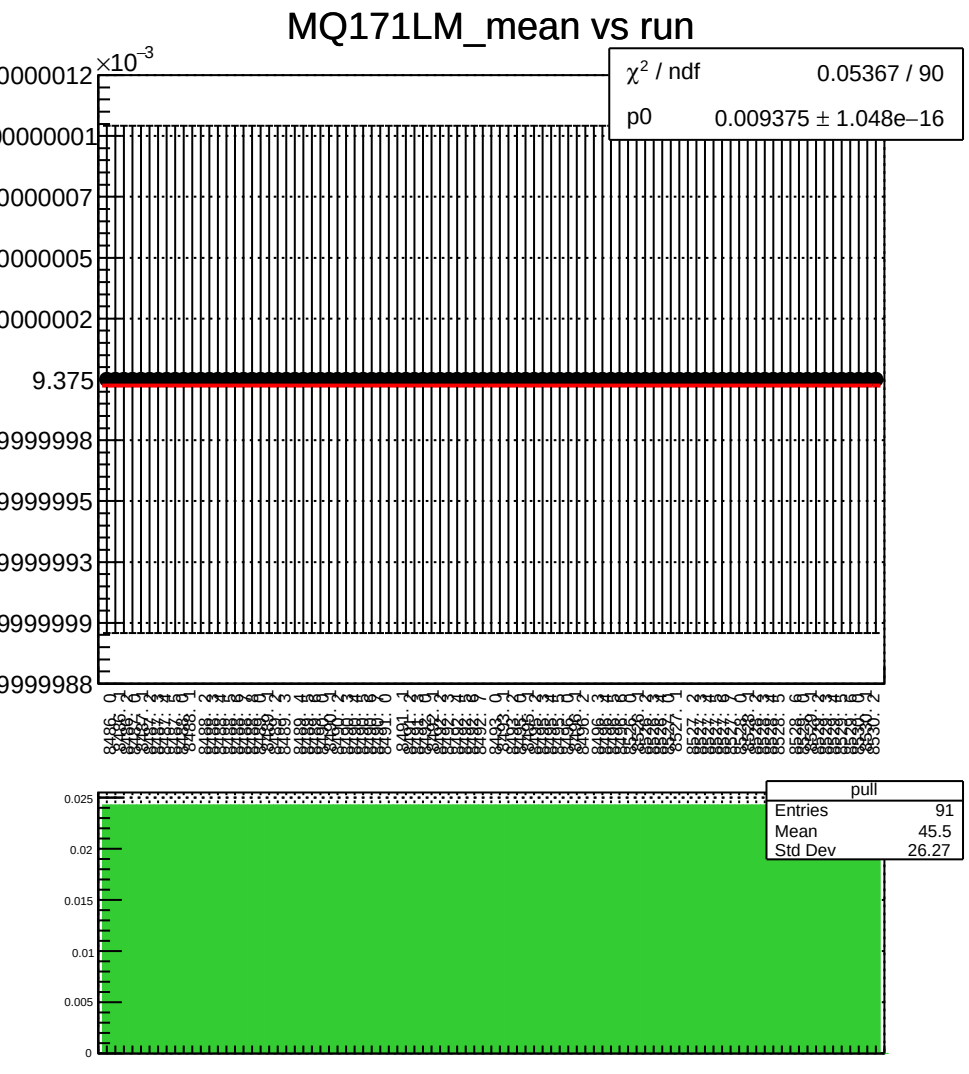

pull1D
Entries 91
Mean −0.0005134
Std Dev 1.093

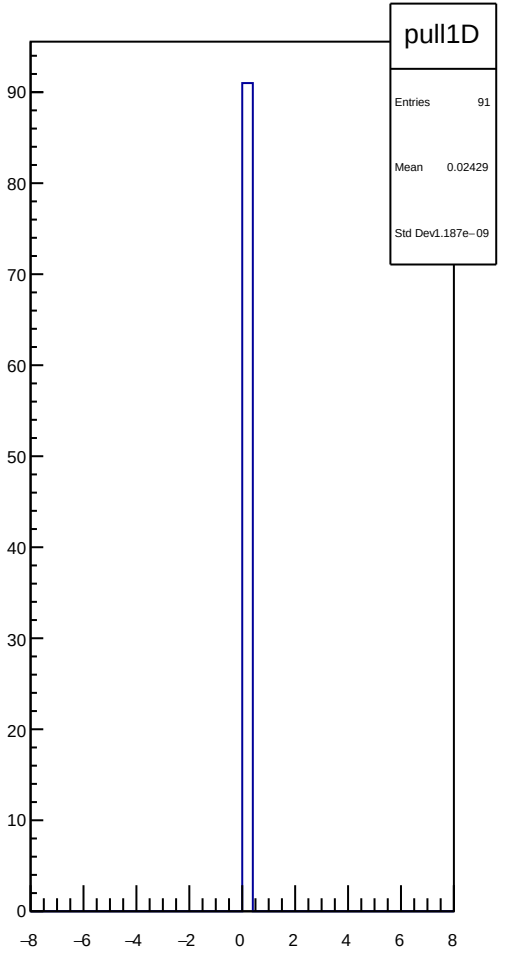

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 124 / 90
p0 0.00143 ± 0.000993
pull
Entries 91
Mean −728
Std Dev 0
pull1D
Entries 91
Mean 0.006215
Std Dev 1.167

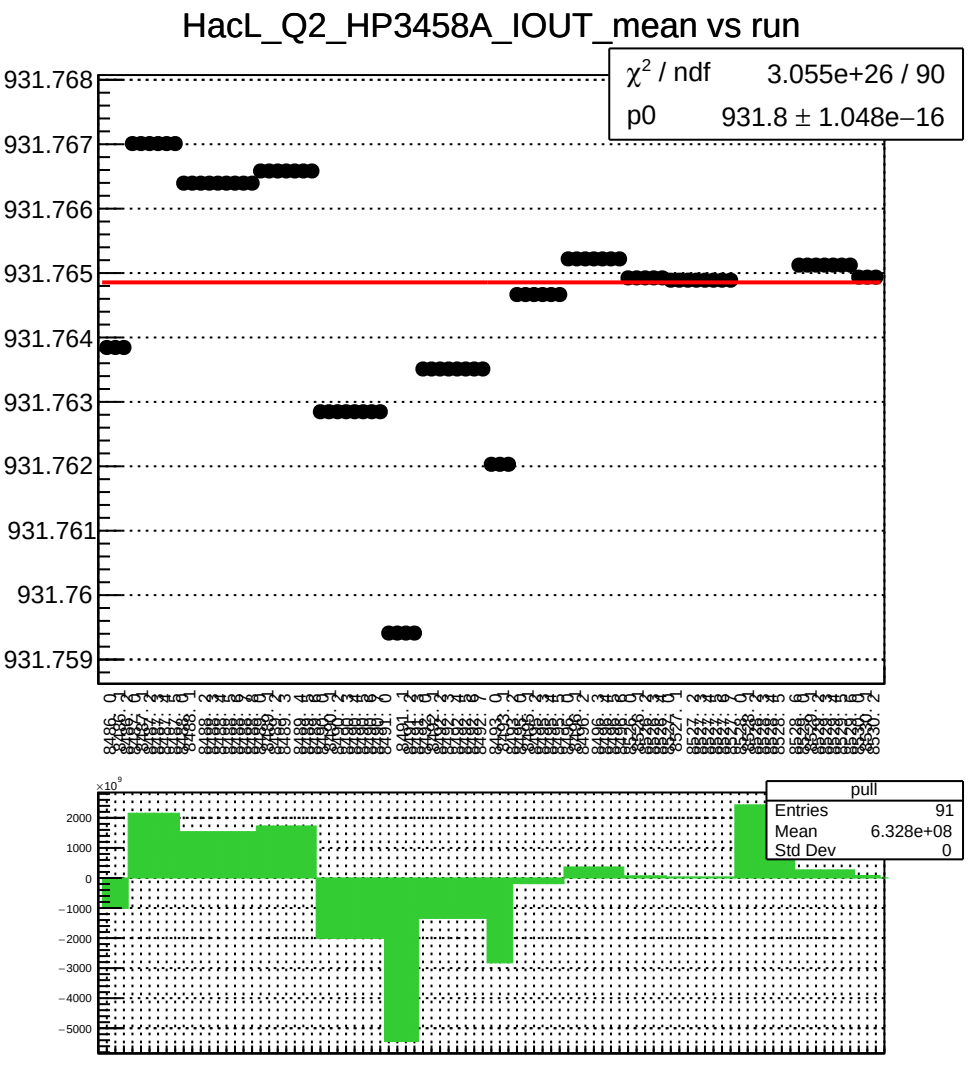

HALLA_p_mean vs run
χ^2 / ndf 7.787e+29 / 90
p0 2176 ± 1.048e−16
2175.95
2175.9
2175.85
2175.8
2175.75
2175.7
pull
Entries 91
Mean −6.624e+09
Std Dev 0
×10^12
50
0
−50
−100
−150
−200

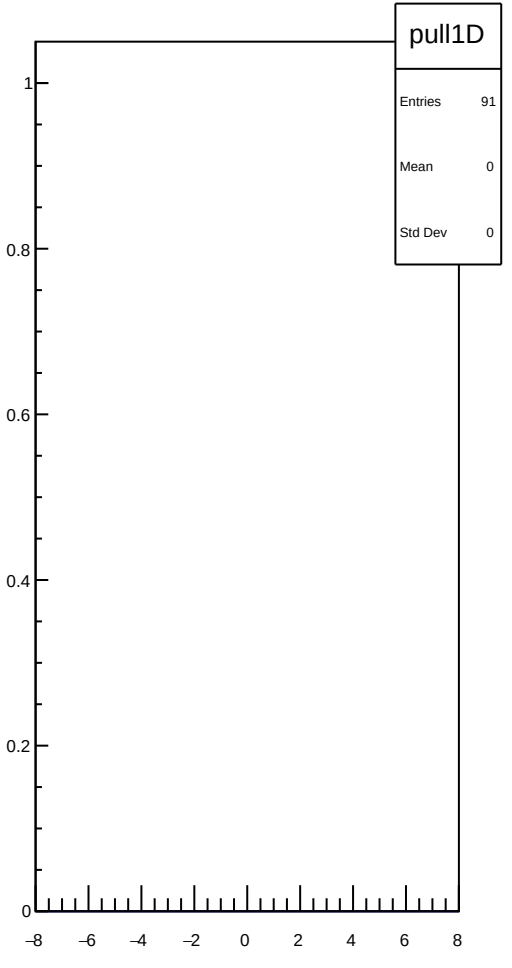

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

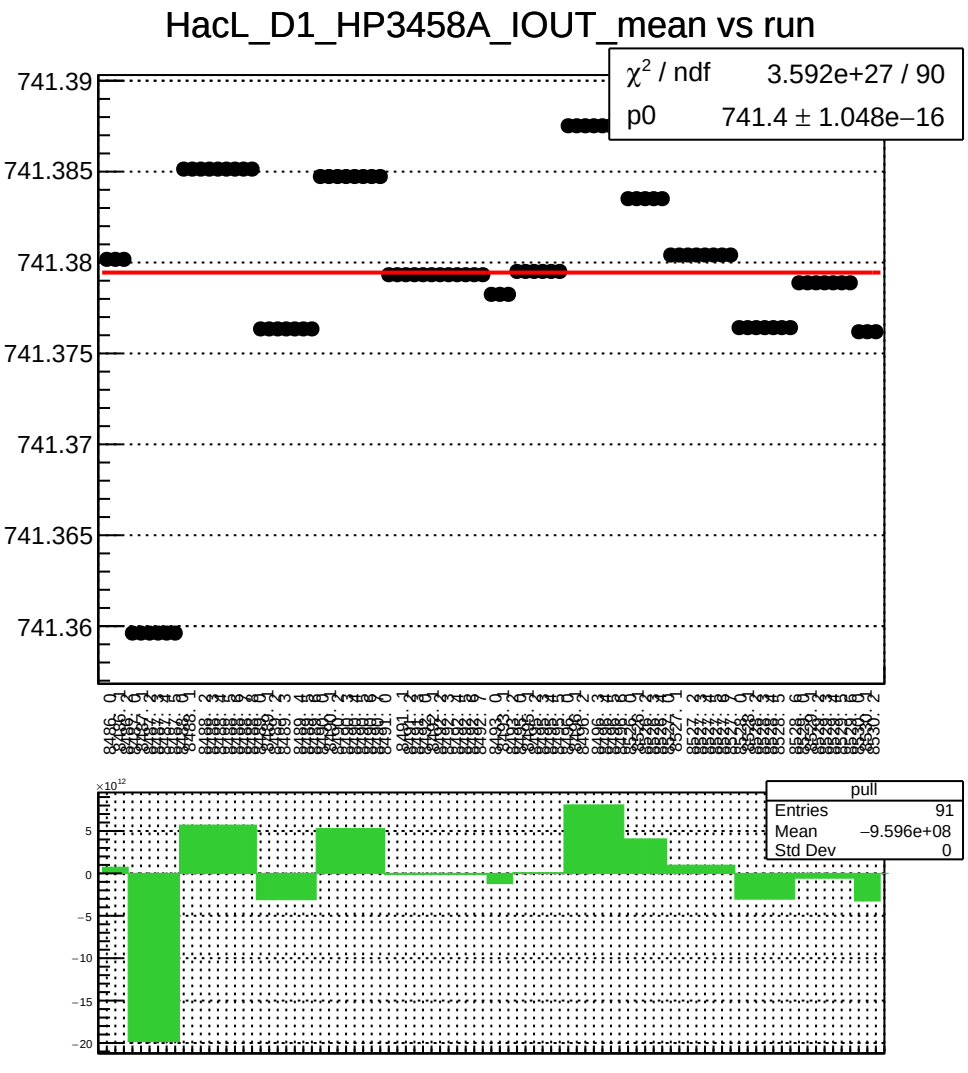

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 1.118e+23 / 90
p0 −8.563e−05 ± 1.048e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
×10⁹
pull
Entries 91
Mean −1.131e+09
Std Dev 0
80
60
40
20
0
−20
pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

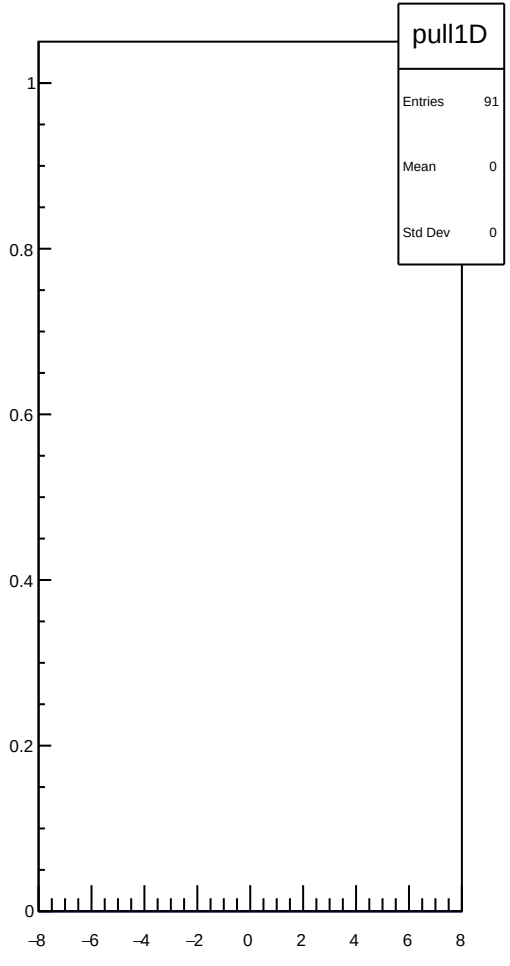

MQ171LM_mean vs run
χ² / ndf 0.05367 / 90
p0 0.009375 ± 1.048e−16
×10⁻³
pull
Entries 91
Mean 45.5
Std Dev 26.27

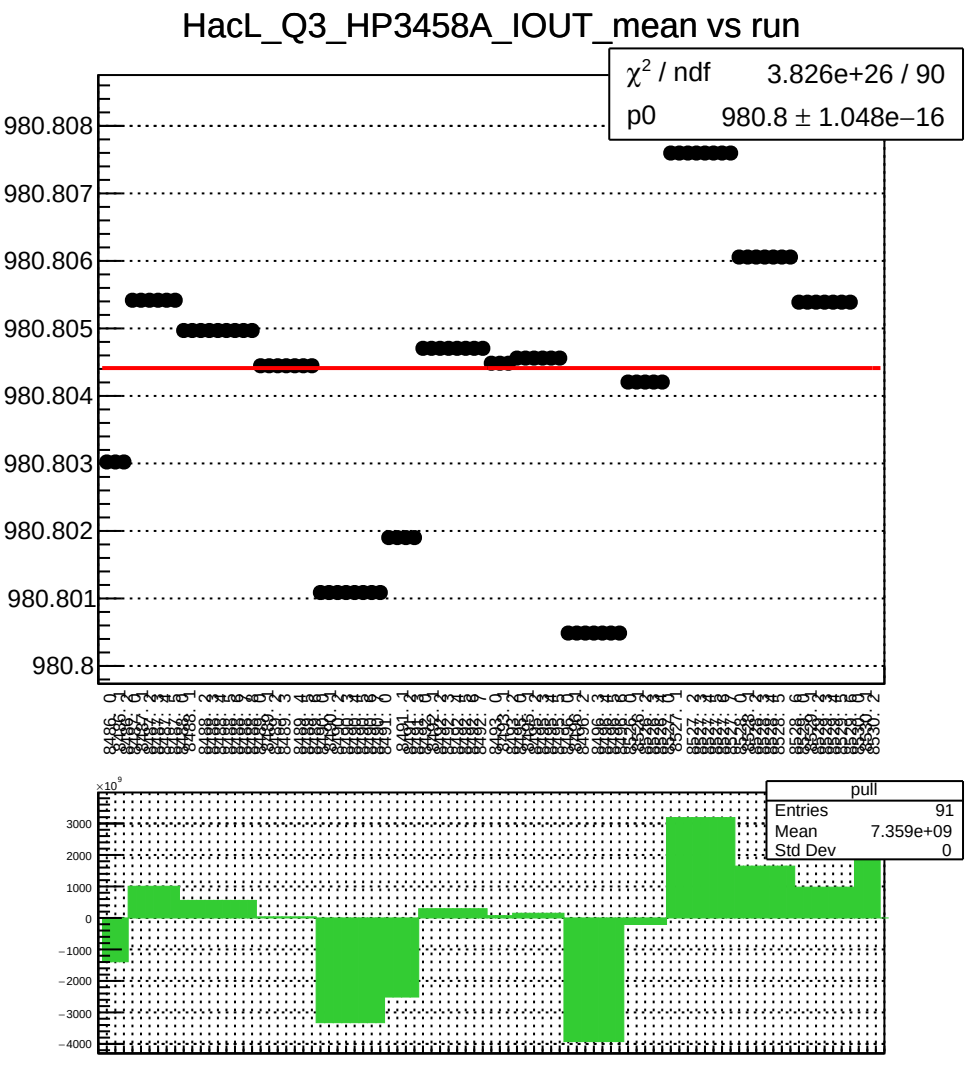

pull1D
Entries 91
Mean 0.02429
Std Dev1.187e−09

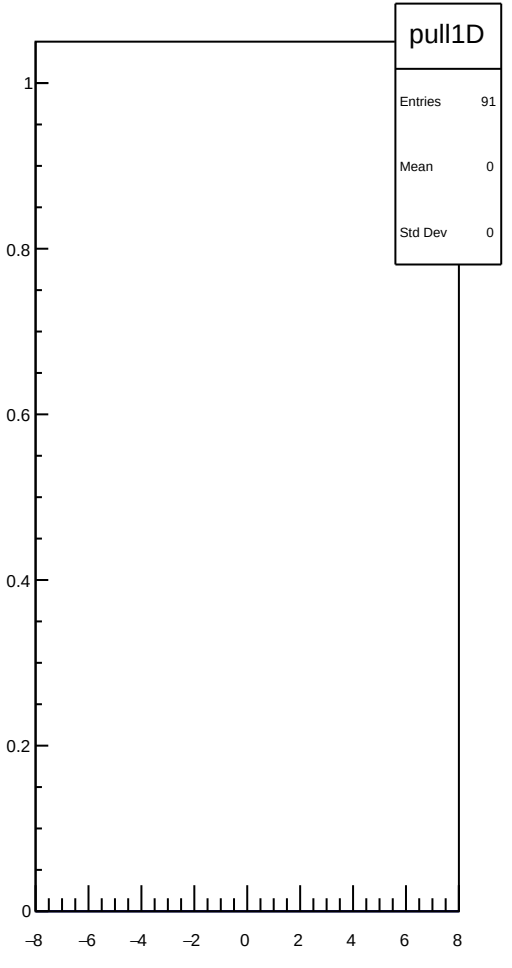

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 3.055e+26 / 90
p0 931.8 ± 1.048e−16
931.768
931.767
931.766
931.765
931.764
931.763
931.762
931.761
931.76
931.759
×10⁹
2000
1000
0
−1000
−2000
−3000
−4000
−5000
pull
Entries 91
Mean 6.328e+08
Std Dev 0

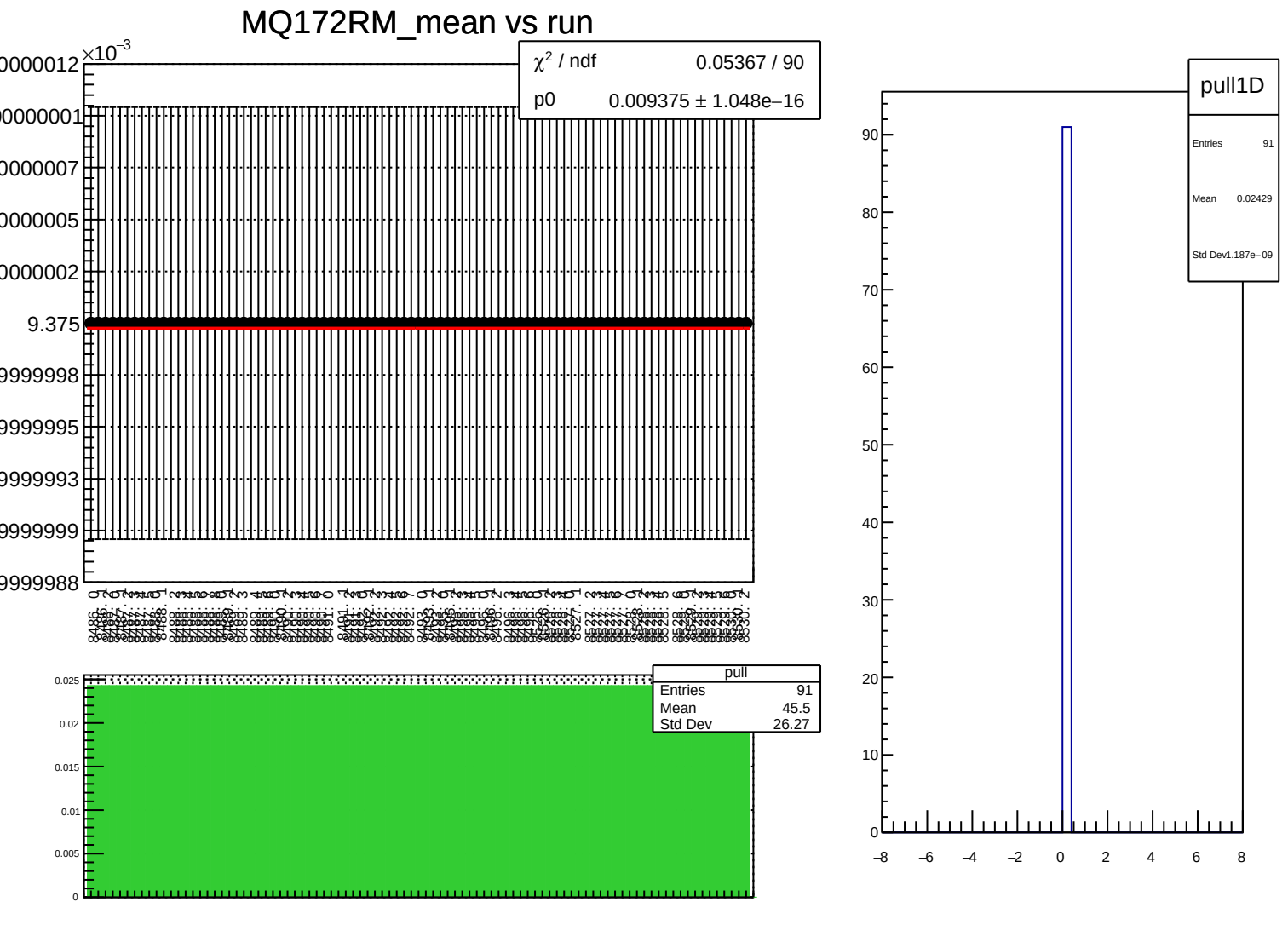

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

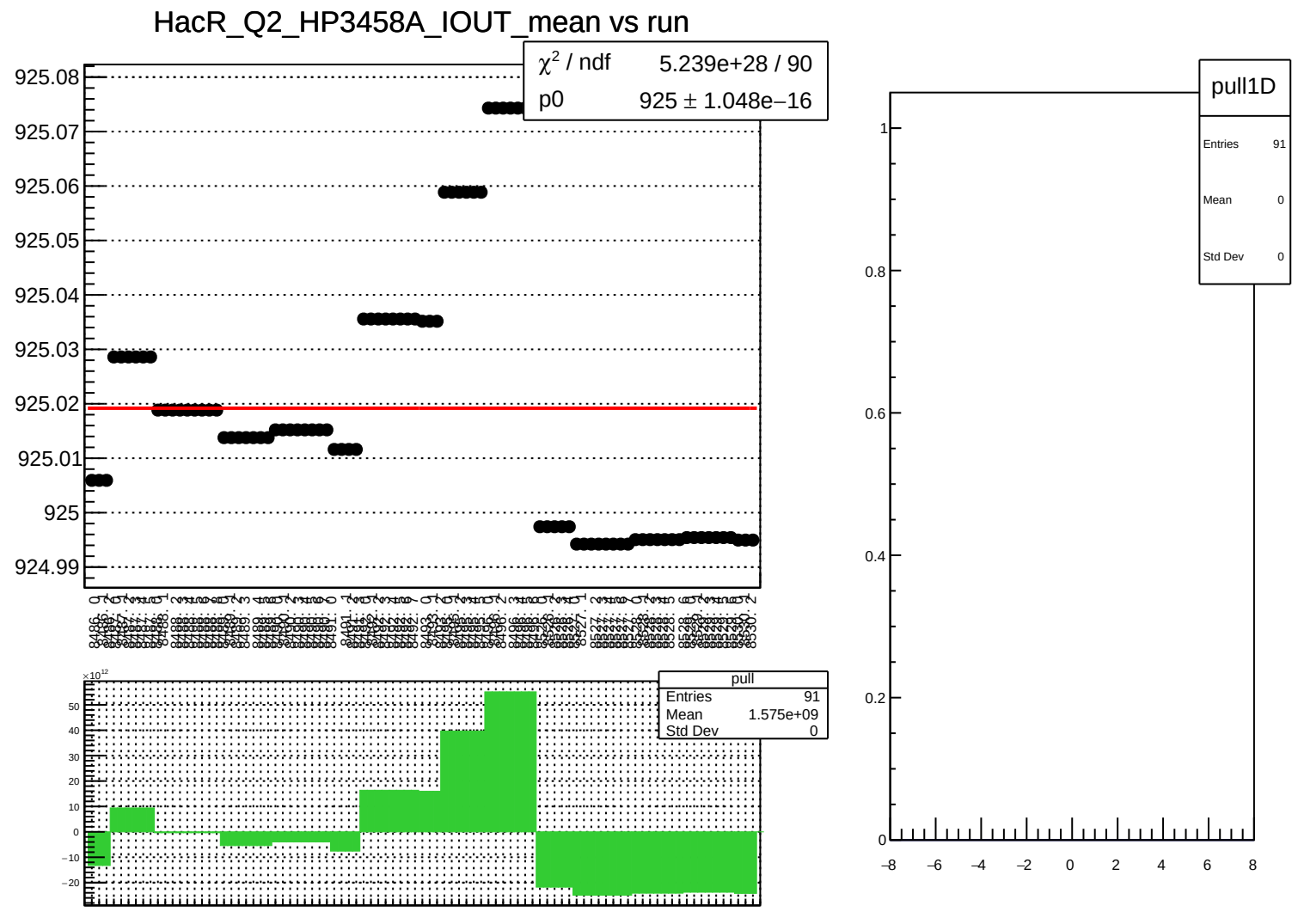

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 3.592e+27 / 90
p0 741.4 ± 1.048e−16
741.39
741.385
741.38
741.375
741.37
741.365
741.36
pull
Entries 91
Mean −9.596e+08
Std Dev 0
×10¹²
5
0
−5
−10
−15
−20

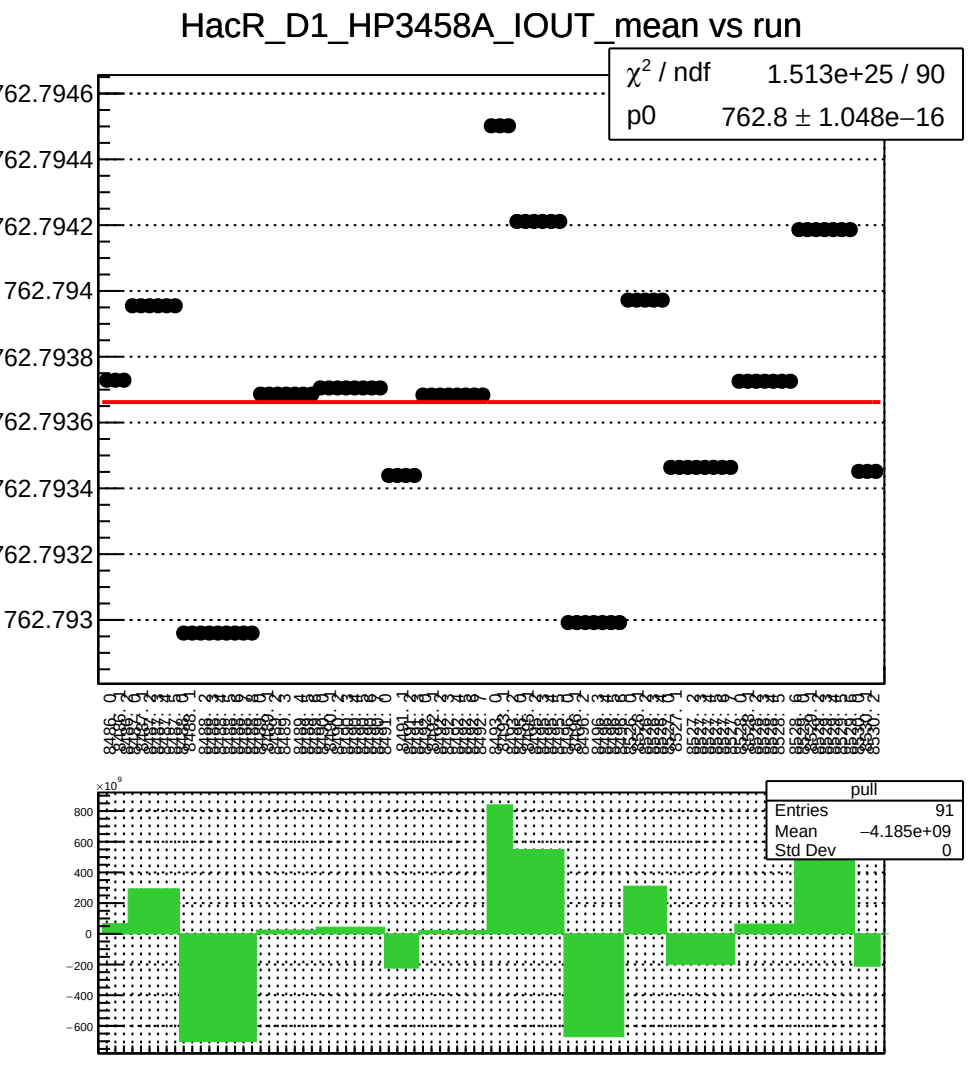

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

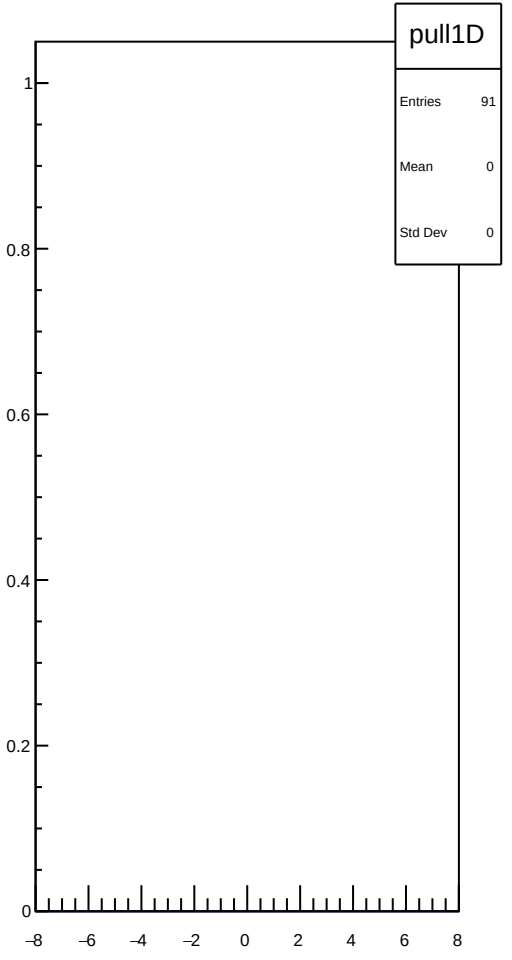

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 3.826e+26 / 90
p0 980.8 ± 1.048e−16
980.808
980.807
980.806
980.805
980.804
980.803
980.802
980.801
980.8
pull
Entries 91
Mean 7.359e+09
Std Dev 0
×10⁹
3000
2000
1000
0
−1000
−2000
−3000
−4000

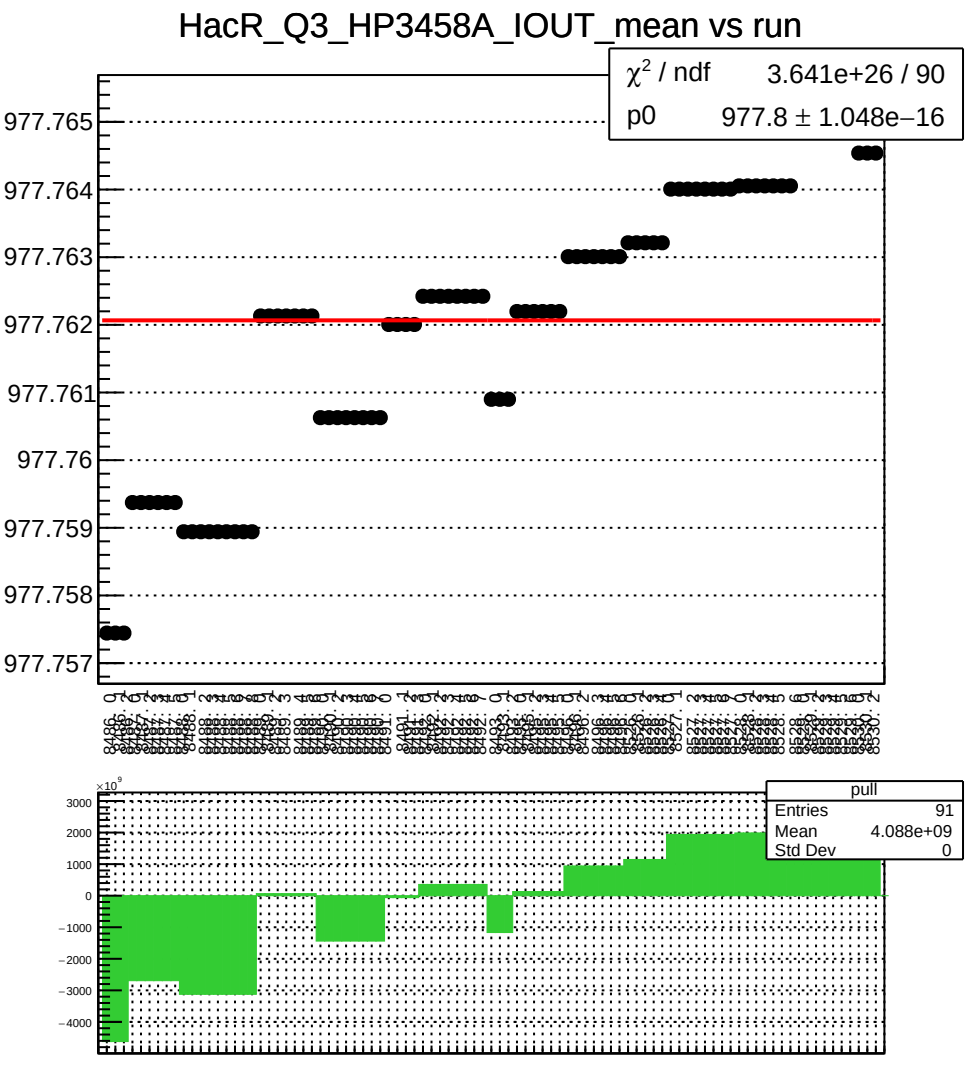

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

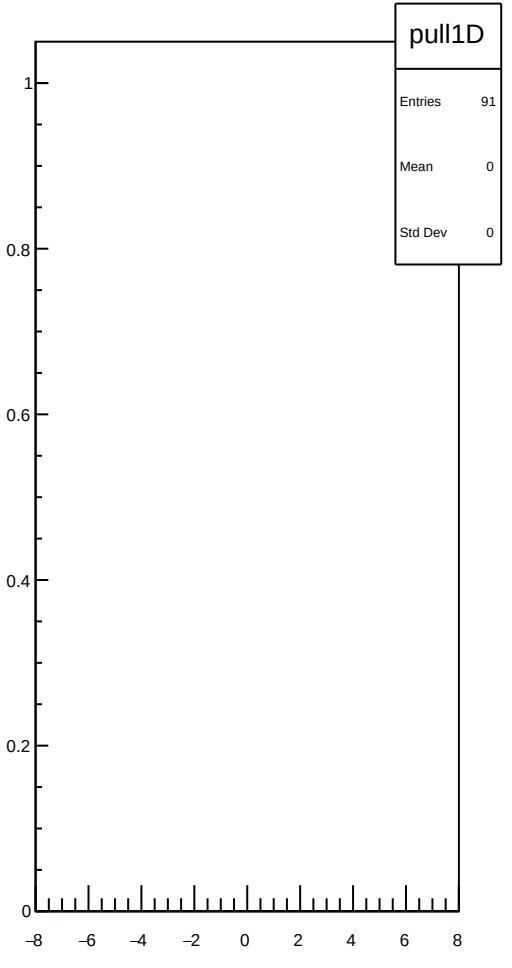

MQ172RM_mean vs run
×10⁻³
χ² / ndf 0.05367 / 90
p0 0.009375 ± 1.048e−16
pull
Entries 91
Mean 45.5
Std Dev 26.27
pull1D
Entries 91
Mean 0.02429
Std Dev1.187e−09

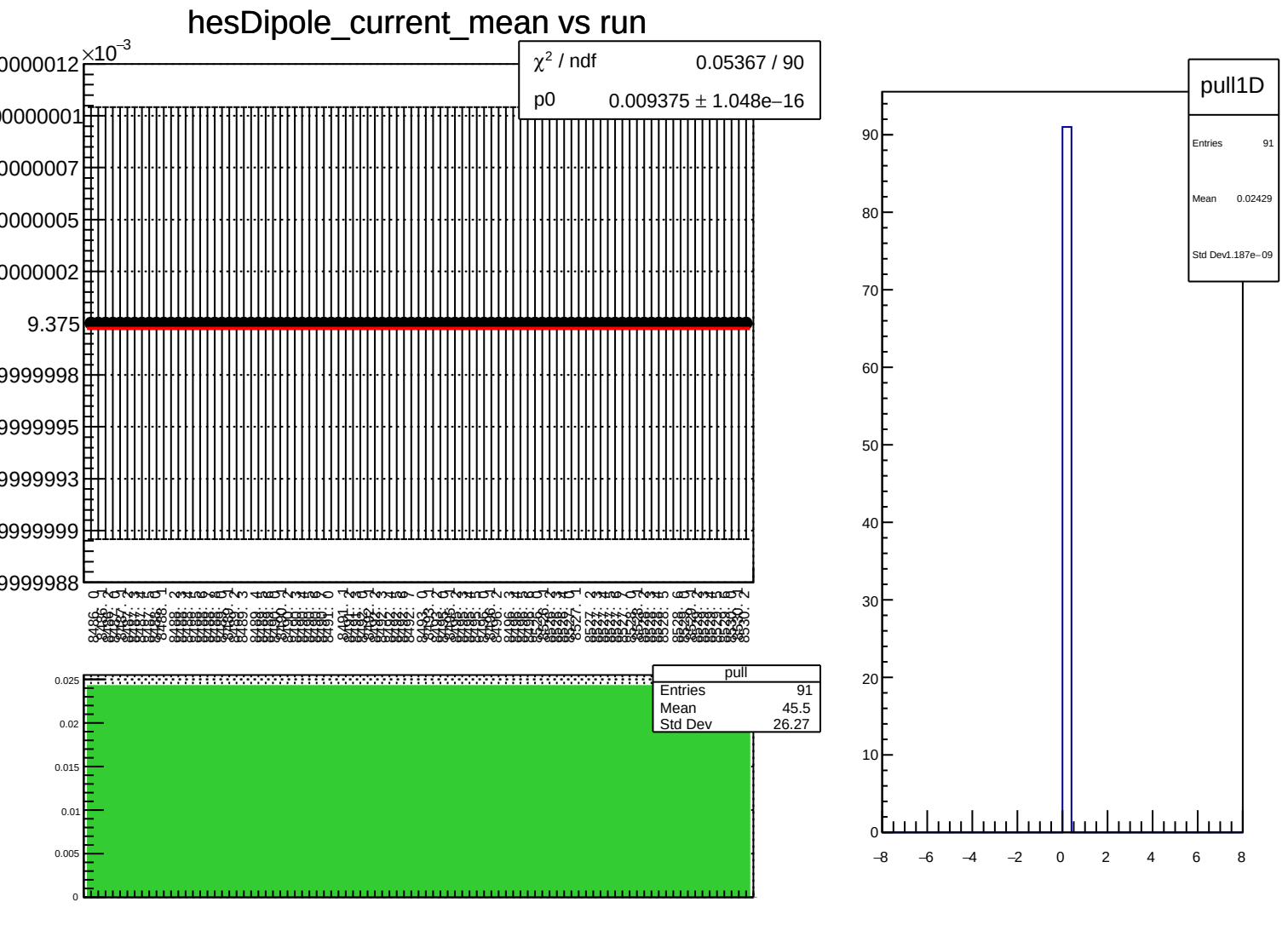

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 5.239e+28 / 90
p0 925 ± 1.048e−16
925.08
925.07
925.06
925.05
925.04
925.03
925.02
925.01
925
924.99
pull
Entries 91
Mean 1.575e+09
Std Dev 0
×10¹²
50
40
30
20
10
0
−10
−20
pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

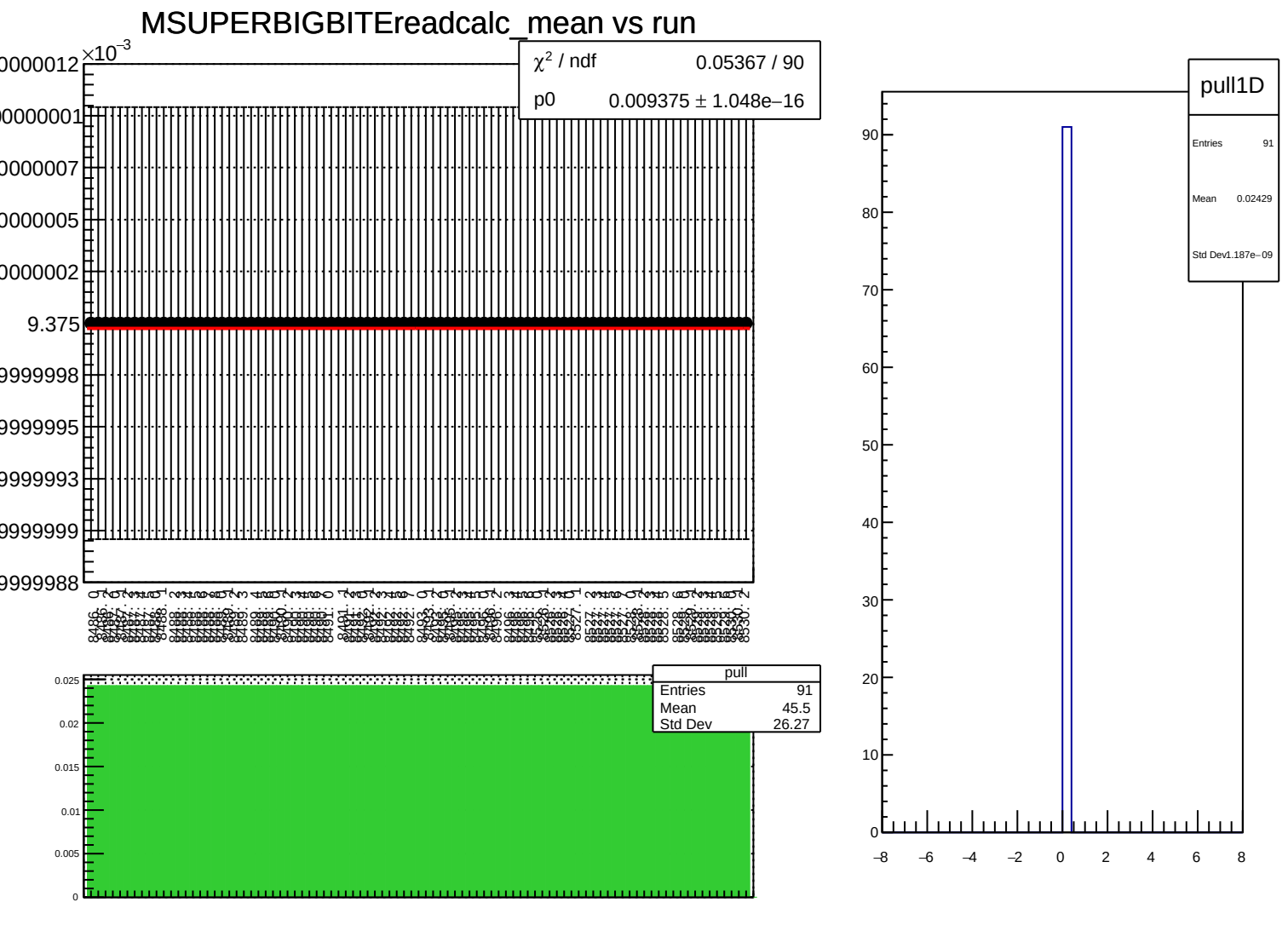

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.513e+25 / 90
p0 762.8 ± 1.048e−16
762.7946
762.7944
762.7942
762.794
762.7938
762.7936
762.7934
762.7932
762.793
pull
Entries 91
Mean −4.185e+09
Std Dev 0
×10⁹
800
600
400
200
0
−200
−400
−600

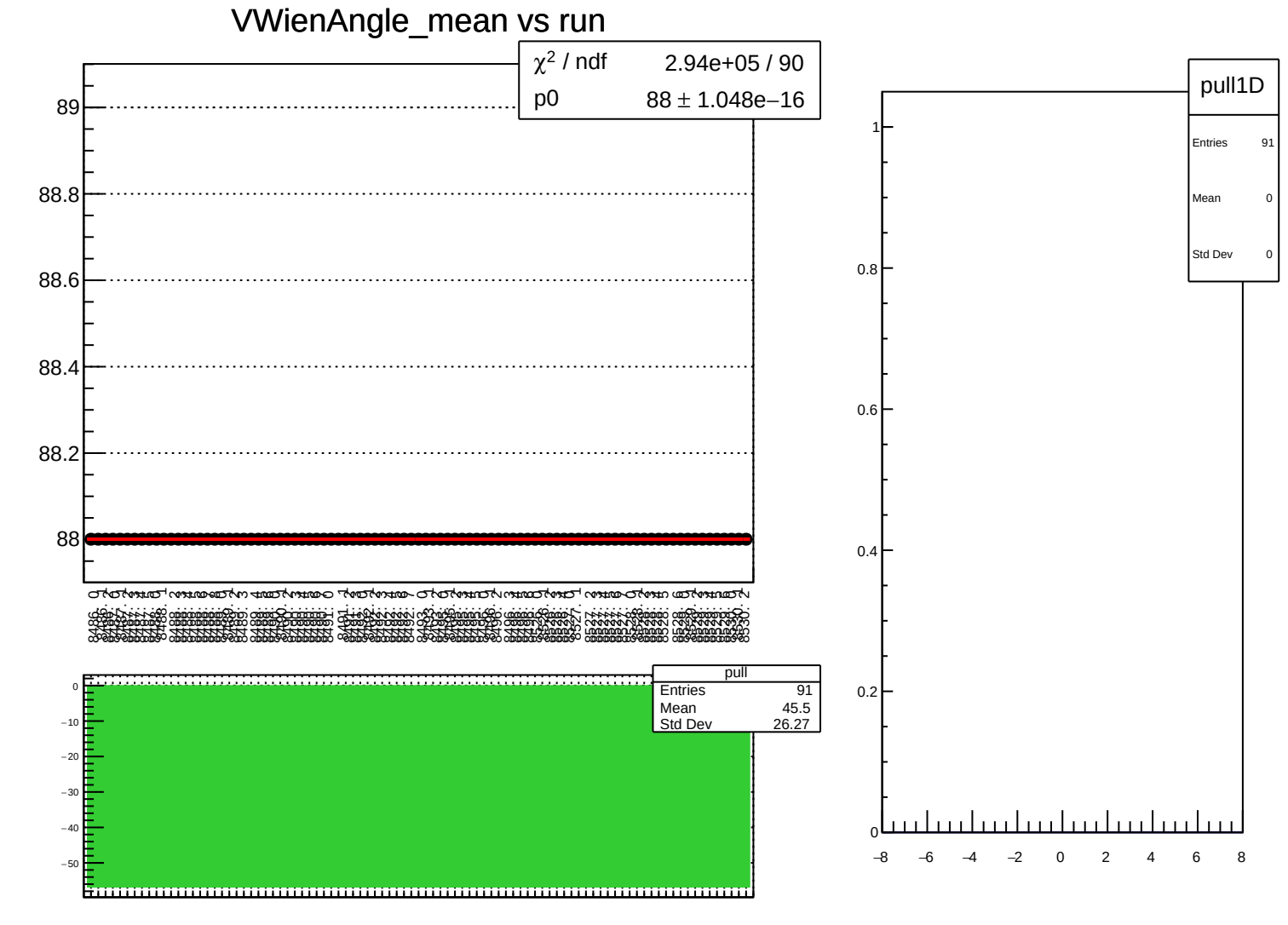

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

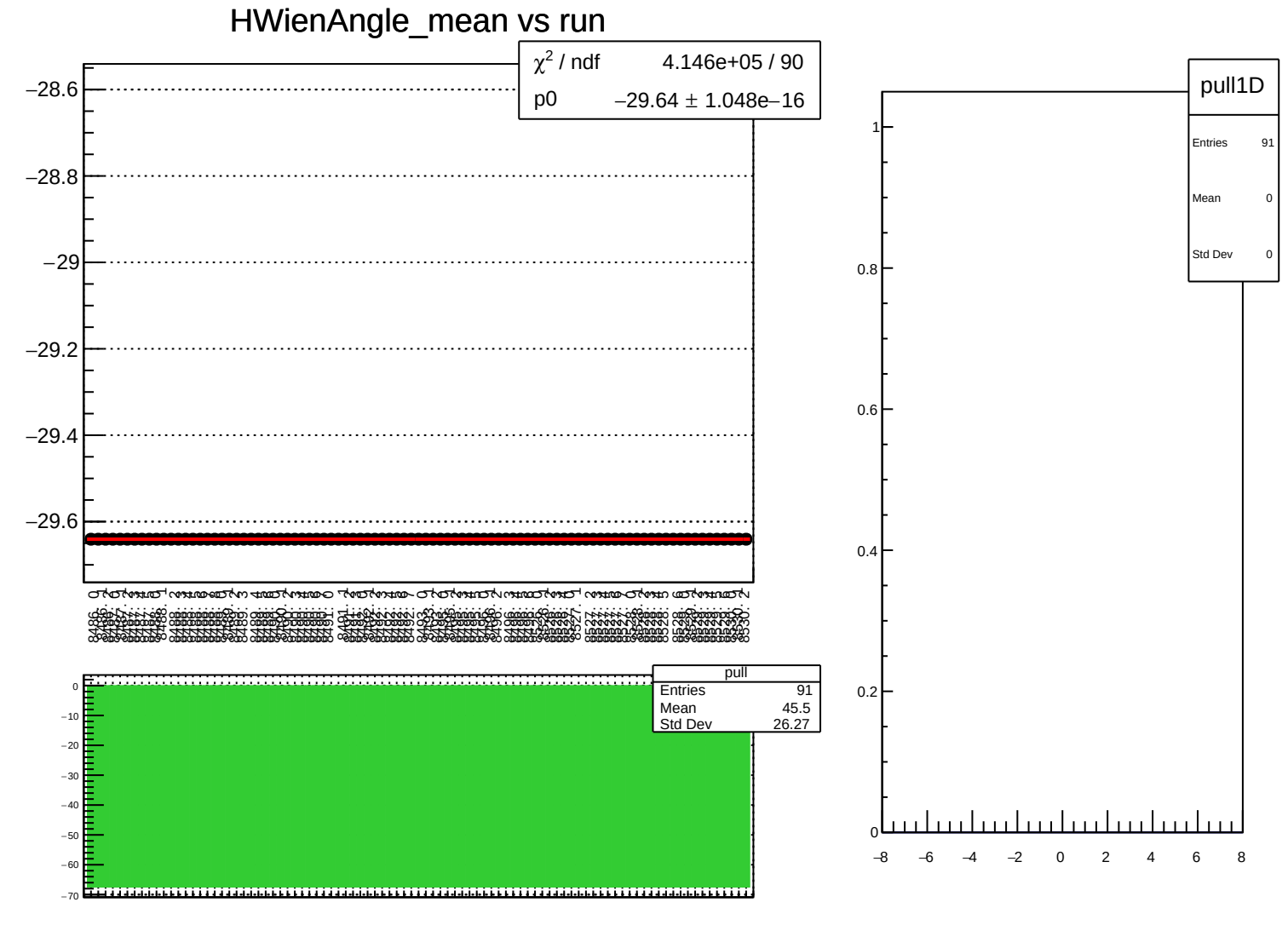

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 3.641e+26 / 90
p0 977.8 ± 1.048e−16
977.765
977.764
977.763
977.762
977.761
977.76
977.759
977.758
977.757
×10⁹
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 91
Mean 4.088e+09
Std Dev 0

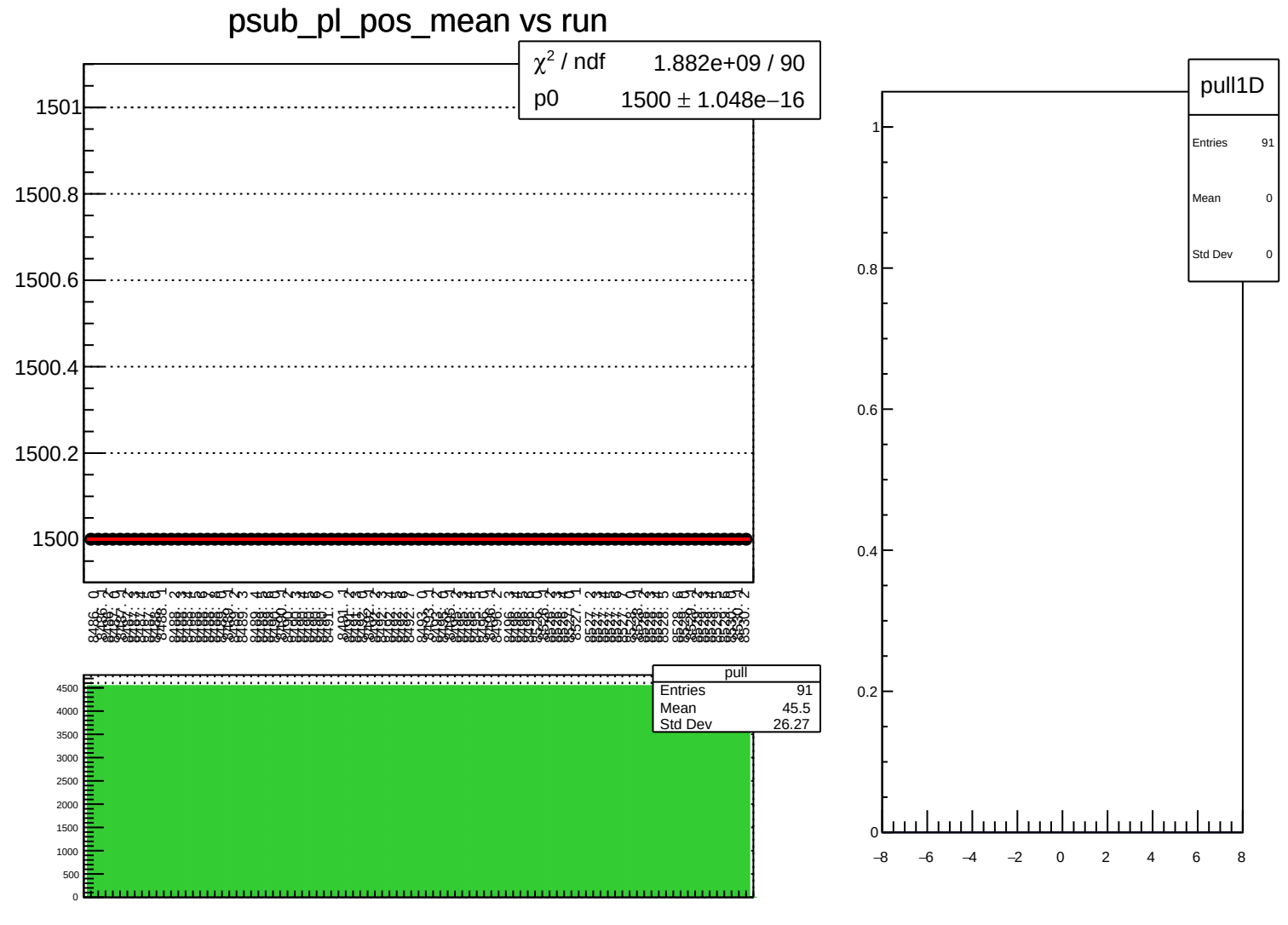

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

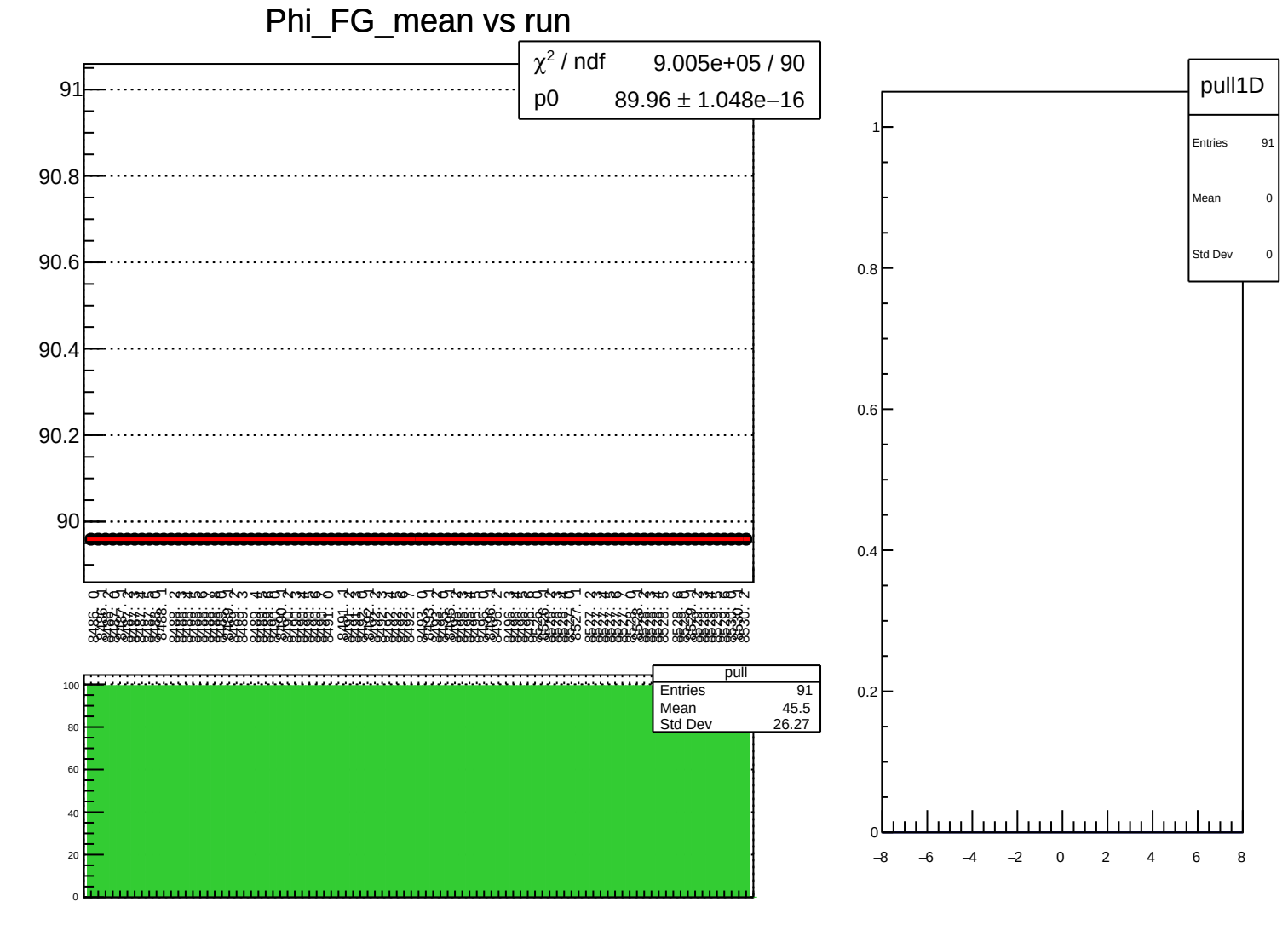

hesDipole_current_mean vs run
×10⁻³
χ² / ndf 0.05367 / 90
p0 0.009375 ± 1.048e−16
pull
Entries 91
Mean 45.5
Std Dev 26.27
pull1D
Entries 91
Mean 0.02429
Std Dev1.187e−09

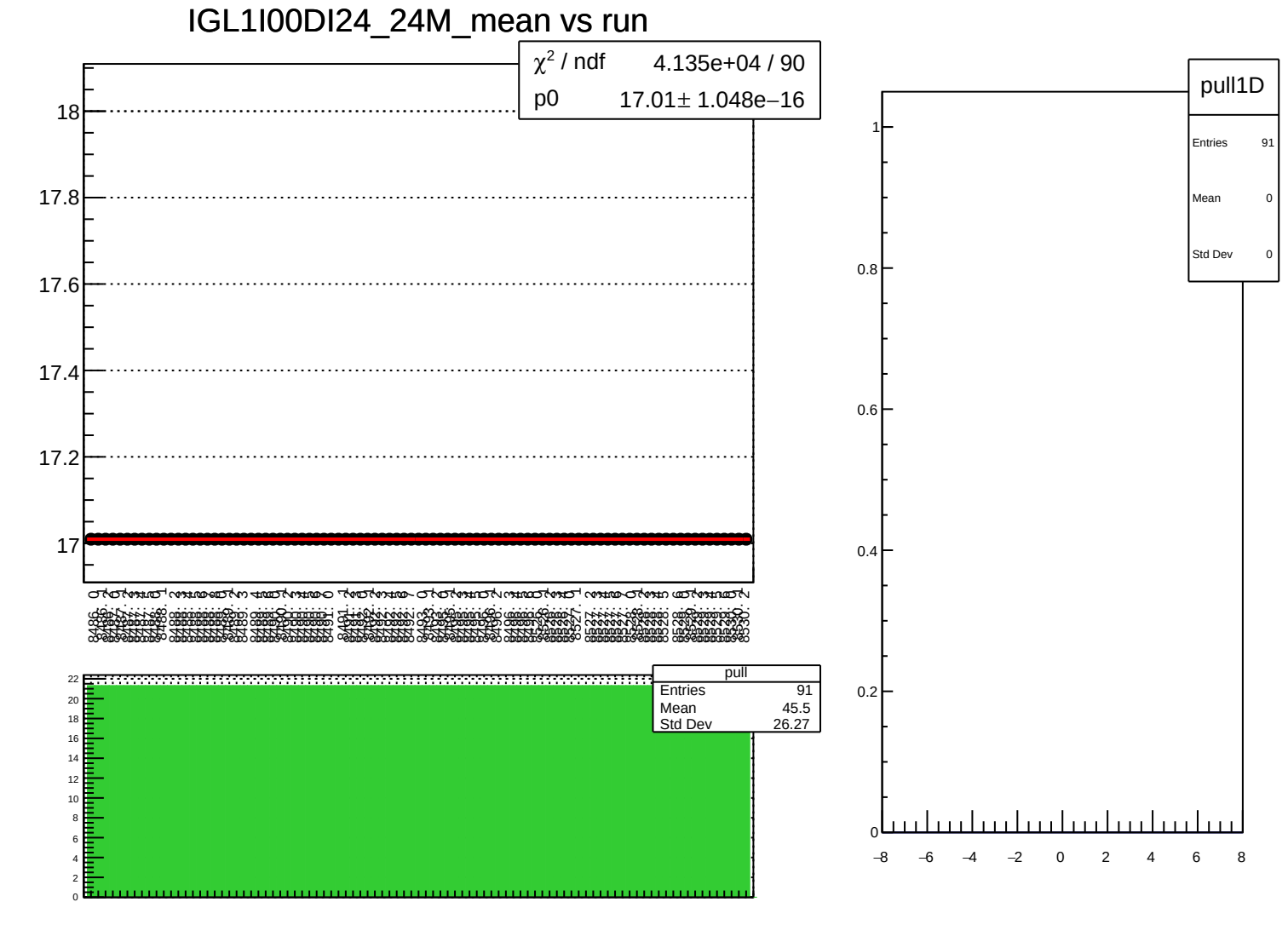

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.05367 / 90
p0 0.009375 ± 1.048e−16
×10⁻³
pull
Entries 91
Mean 45.5
Std Dev 26.27
pull1D
Entries 91
Mean 0.02429
Std Dev1.187e−09

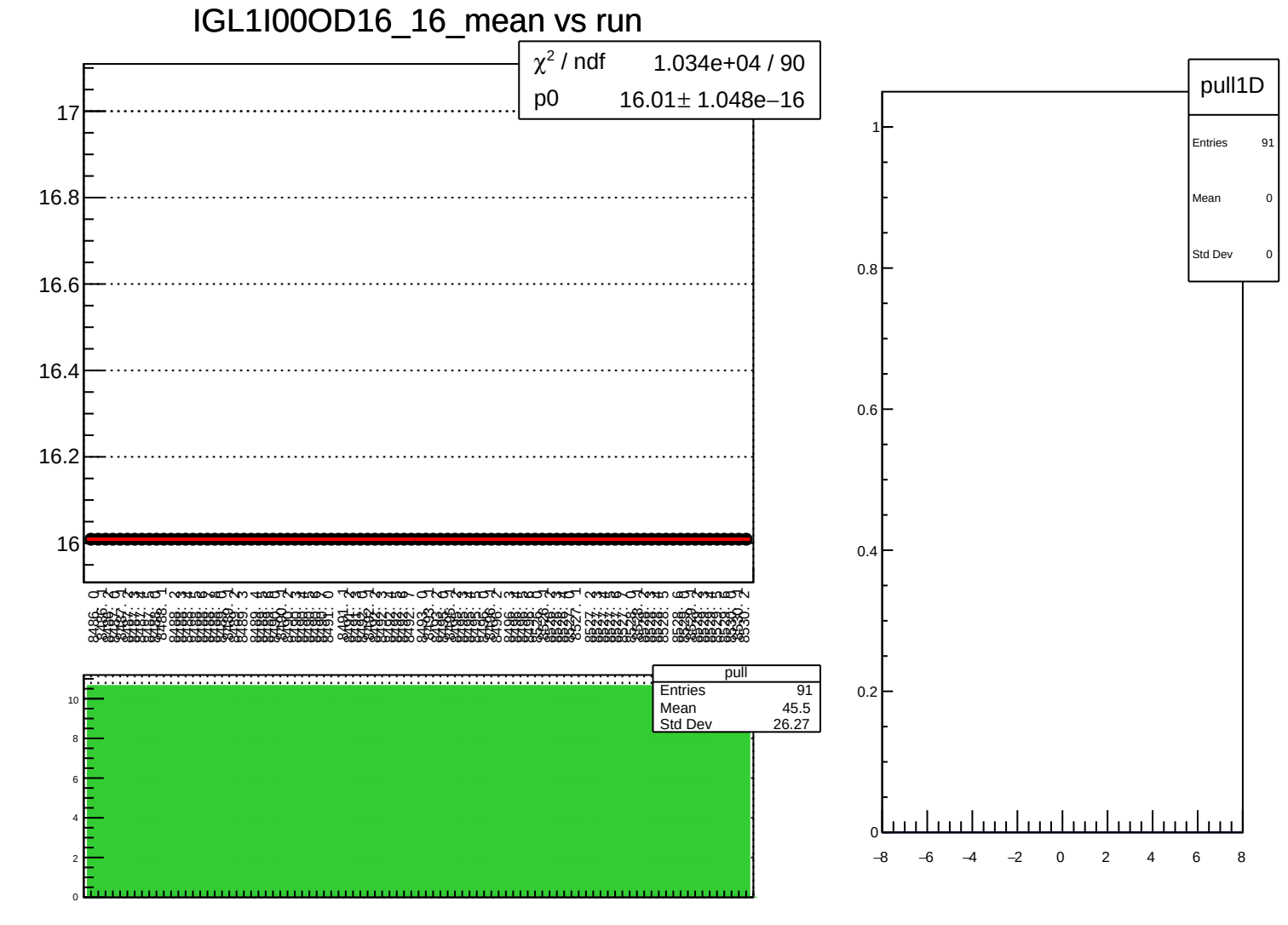

VWienAngle_mean vs run
χ² / ndf 2.94e+05 / 90
p0 88 ± 1.048e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 91
Mean 45.5
Std Dev 26.27
0
−10
−20
−30
−40
−50
pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

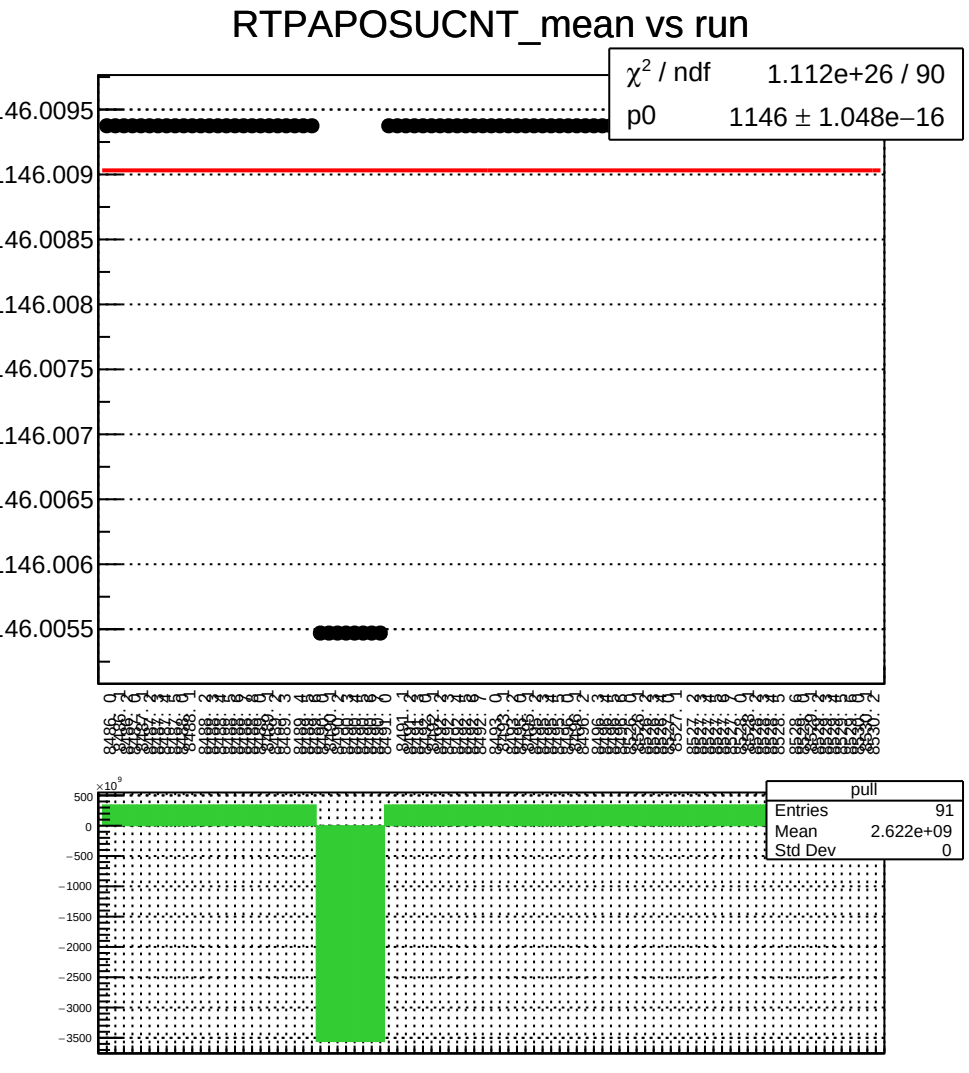

HWienAngle_mean vs run
χ² / ndf 4.146e+05 / 90
p0 −29.64 ± 1.048e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 91
Mean 45.5
Std Dev 26.27
0
−10
−20
−30
−40
−50
−60
−70
pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

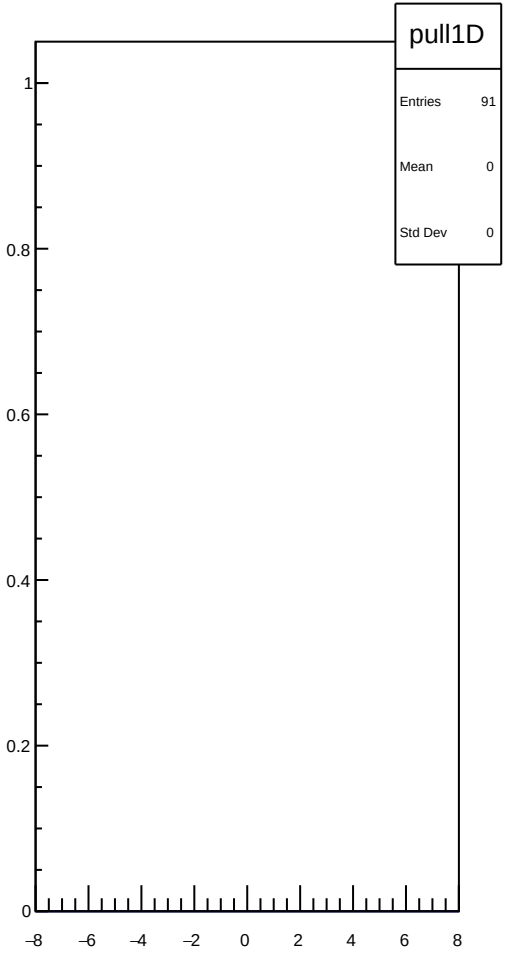

psub_pl_pos_mean vs run
χ² / ndf 1.882e+09 / 90
p0 1500 ± 1.048e−16
1501
1500.8
1500.6
1500.4
1500.2
1500
pull
Entries 91
Mean 45.5
Std Dev 26.27
4500
4000
3500
3000
2500
2000
1500
1000
500
0
pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

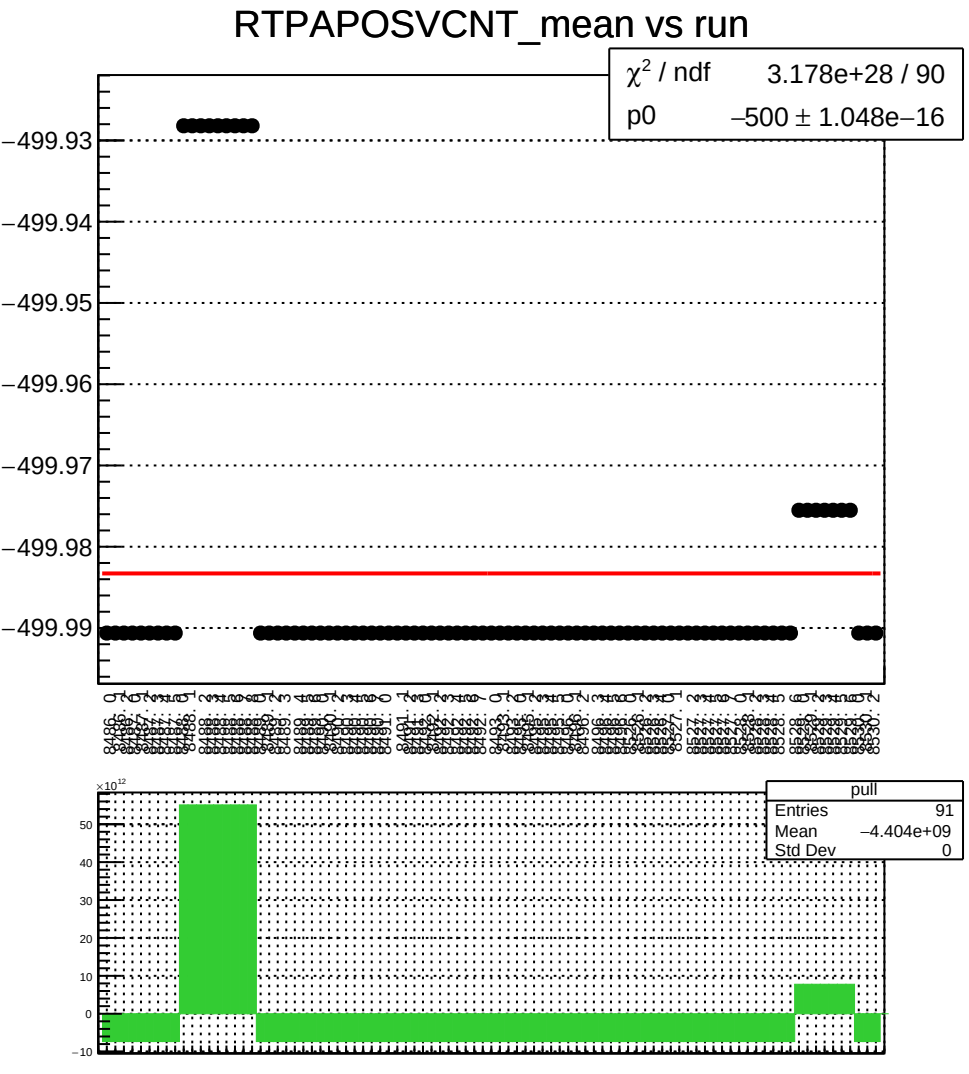

Phi_FG_mean vs run
χ² / ndf 9.005e+05 / 90
p0 89.96 ± 1.048e−16
91
90.8
90.6
90.4
90.2
90
pull
Entries 91
Mean 45.5
Std Dev 26.27
100
80
60
40
20
0
pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

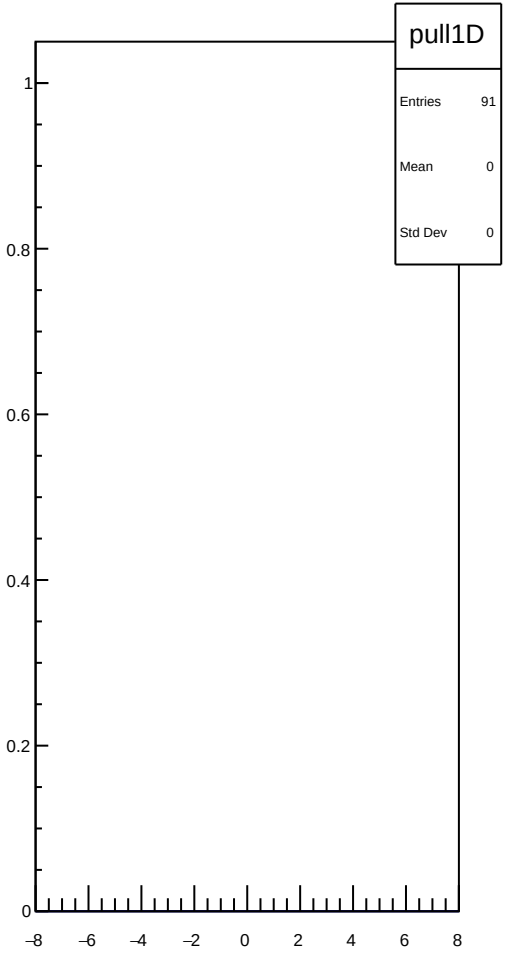

IGL1I00DI24_24M_mean vs run
χ² / ndf 4.135e+04 / 90
p0 17.01± 1.048e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 91
Mean 45.5
Std Dev 26.27
22
20
18
16
14
12
10
8
6
4
2
0
pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

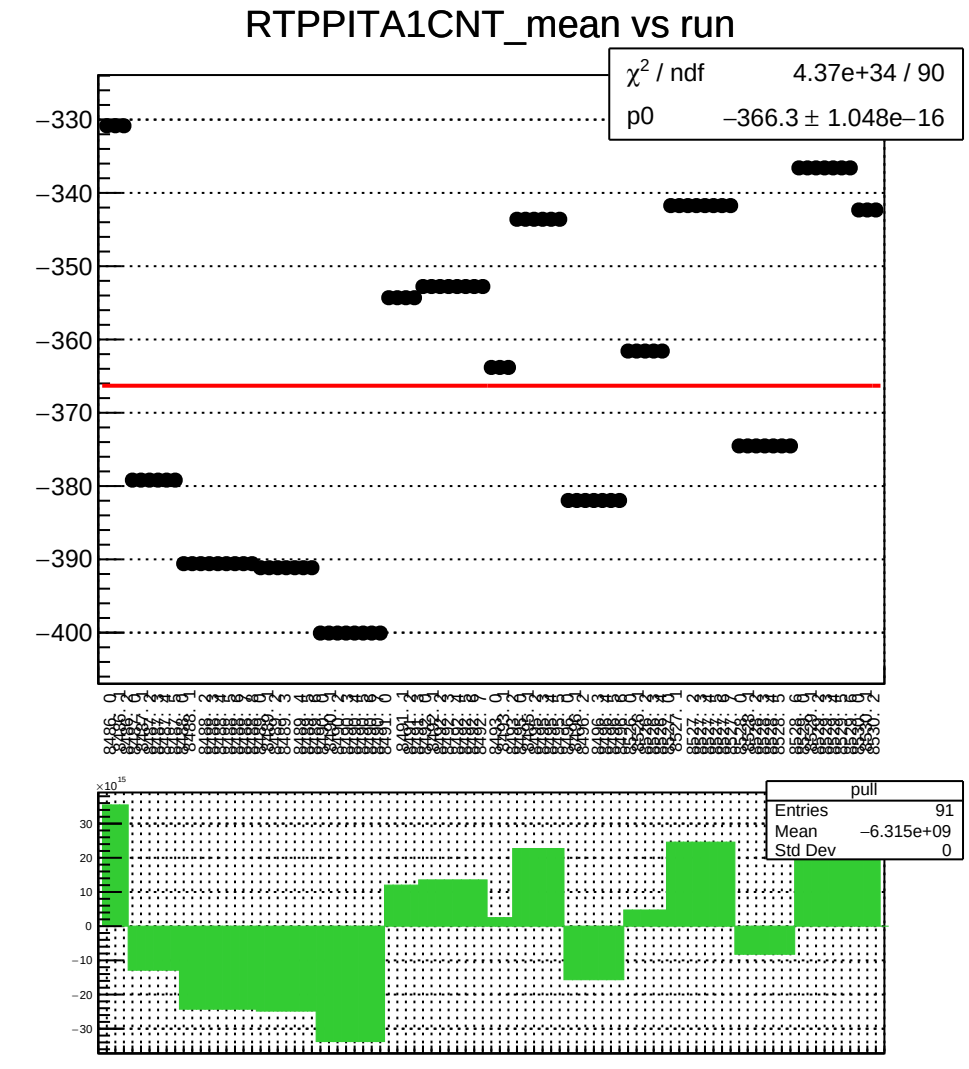

IGL1I00OD16_16_mean vs run
χ² / ndf 1.034e+04 / 90
p0 16.01± 1.048e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 91
Mean 45.5
Std Dev 26.27
10
8
6
4
2
0
pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

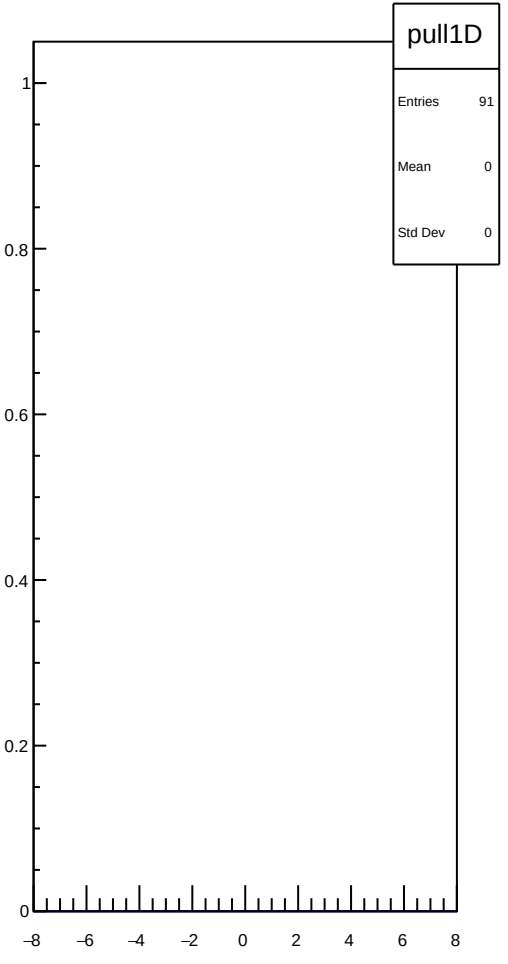

RTPAPOSUCNT_mean vs run
χ² / ndf 1.112e+26 / 90
p0 1146 ± 1.048e−16
1146.0095
1146.009
1146.0085
1146.008
1146.0075
1146.007
1146.0065
1146.006
1146.0055
×10⁹
500
0
−500
−1000
−1500
−2000
−2500
−3000
−3500
pull
Entries 91
Mean 2.622e+09
Std Dev 0

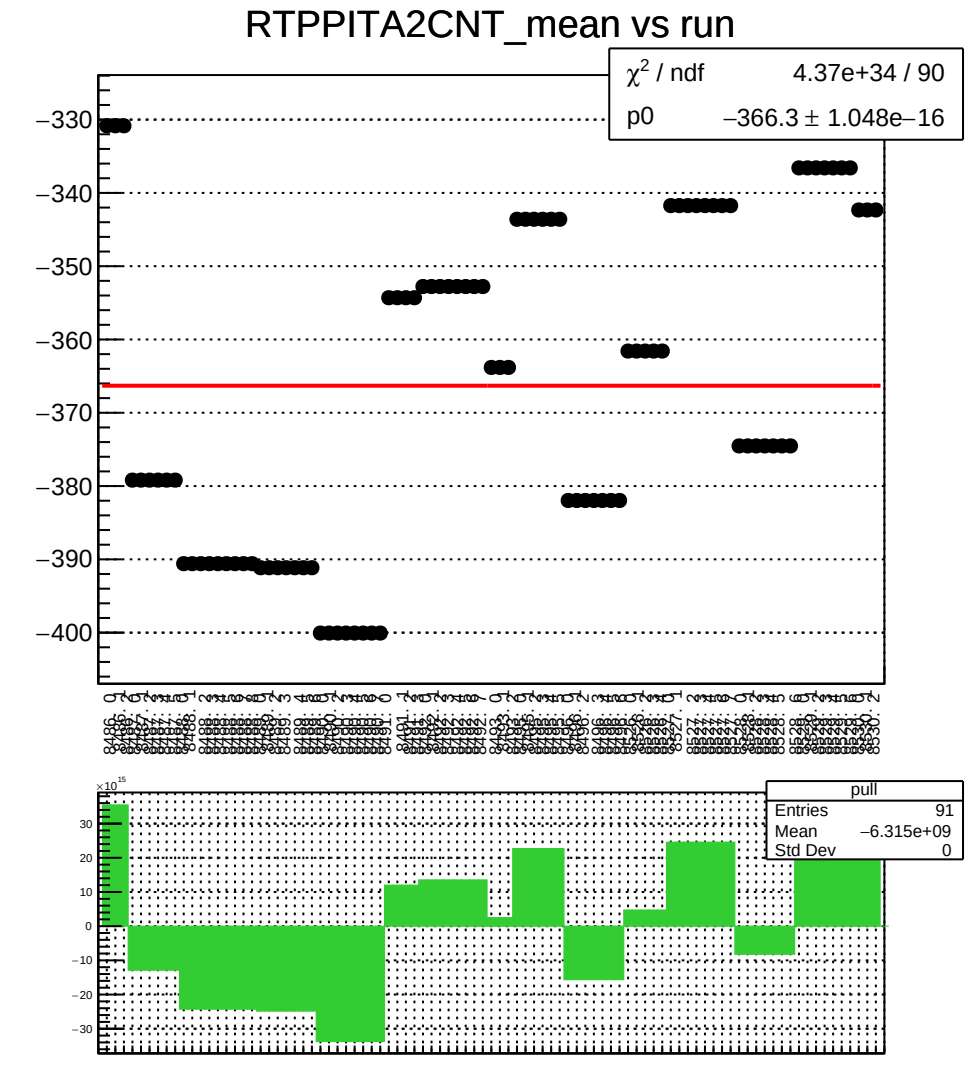

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

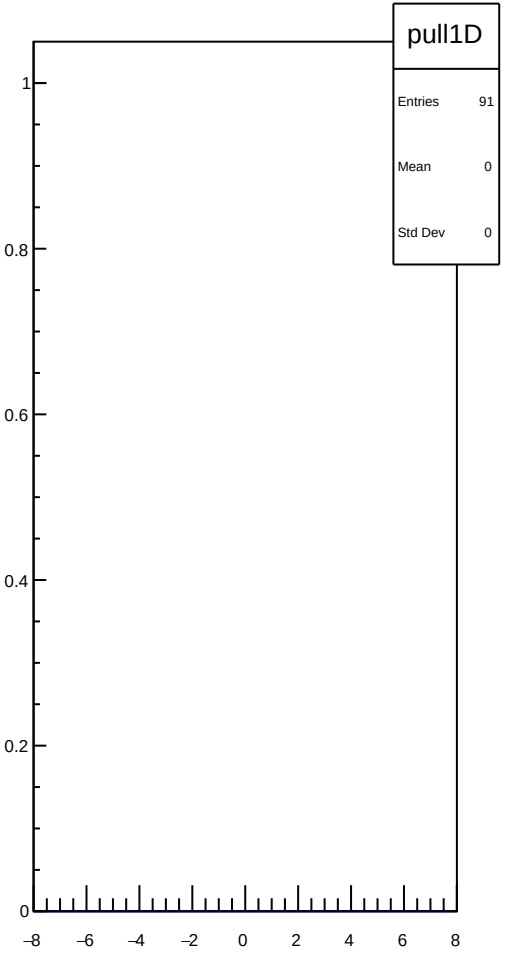

RTPAPOSVCNT_mean vs run
χ² / ndf 3.178e+28 / 90
p0 −500 ± 1.048e−16
−499.93
−499.94
−499.95
−499.96
−499.97
−499.98
−499.99
pull
Entries 91
Mean −4.404e+09
Std Dev 0
×10¹²
50
40
30
20
10
0
−10


pull1D
Entries 91
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 4.37e+34 / 90
p0 −366.3 ± 1.048e−16
−330
−340
−350
−360
−370
−380
−390
−400
pull
Entries 91
Mean −6.315e+09
Std Dev 0
×10¹⁵
30
20
10
0
−10
−20
−30


pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPPITA2CNT_mean vs run
χ² / ndf 4.37e+34 / 90
p0 −366.3 ± 1.048e−16
−330
−340
−350
−360
−370
−380
−390
−400
pull
Entries 91
Mean −6.315e+09
Std Dev 0
×10¹⁵
30
20
10
0
−10
−20
−30


pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8